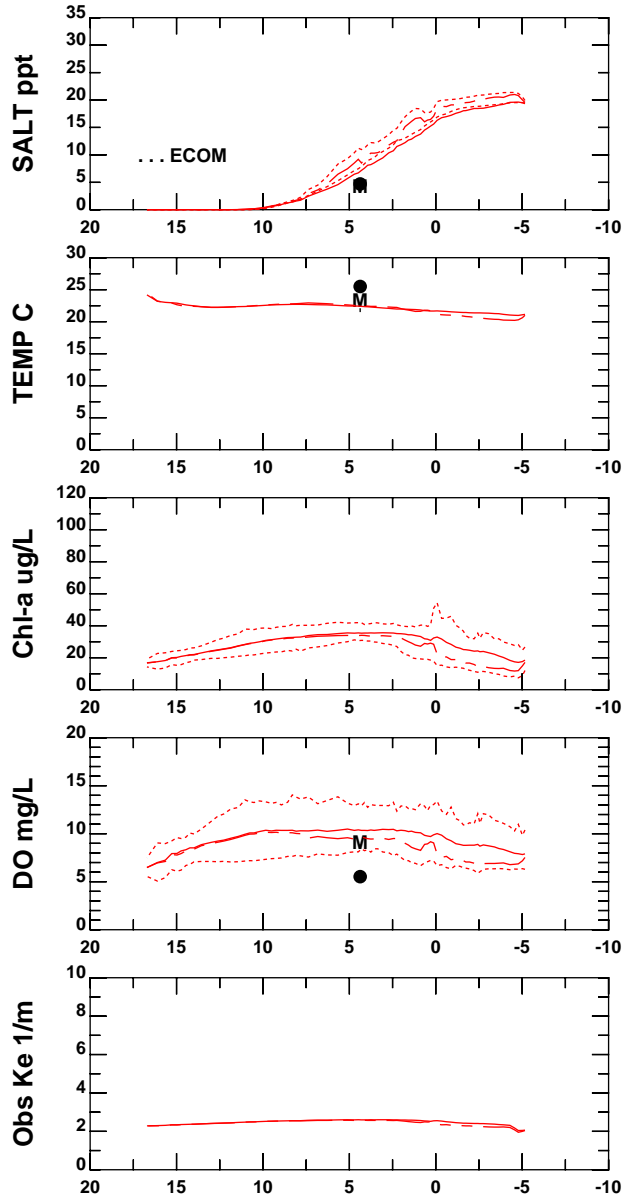
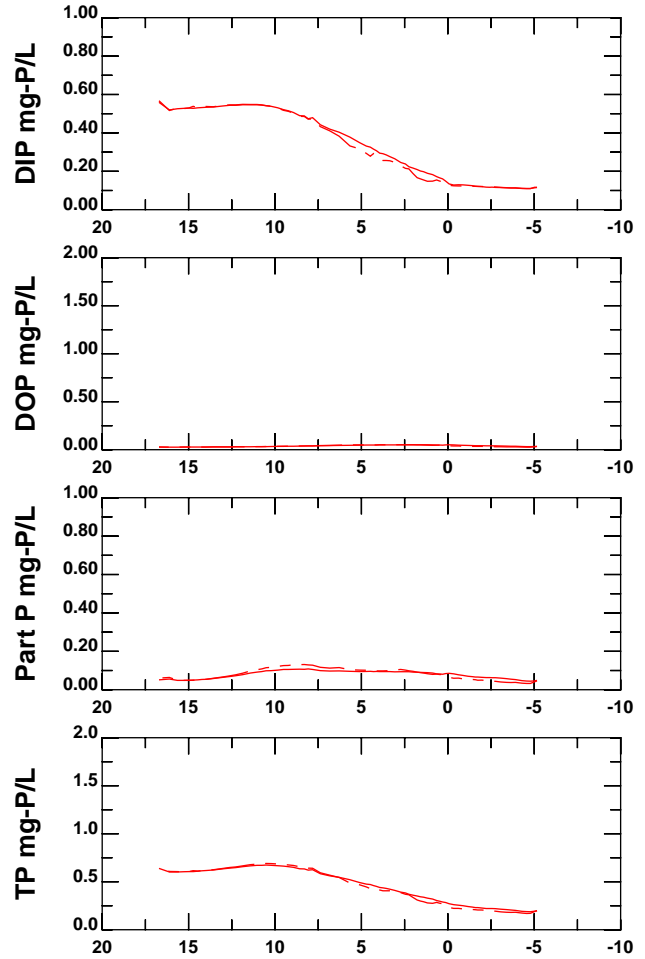


**Attachment A**  
**Carbon Model Transect Plots**



MILE FROM MOUTH PASSAIC RIVER



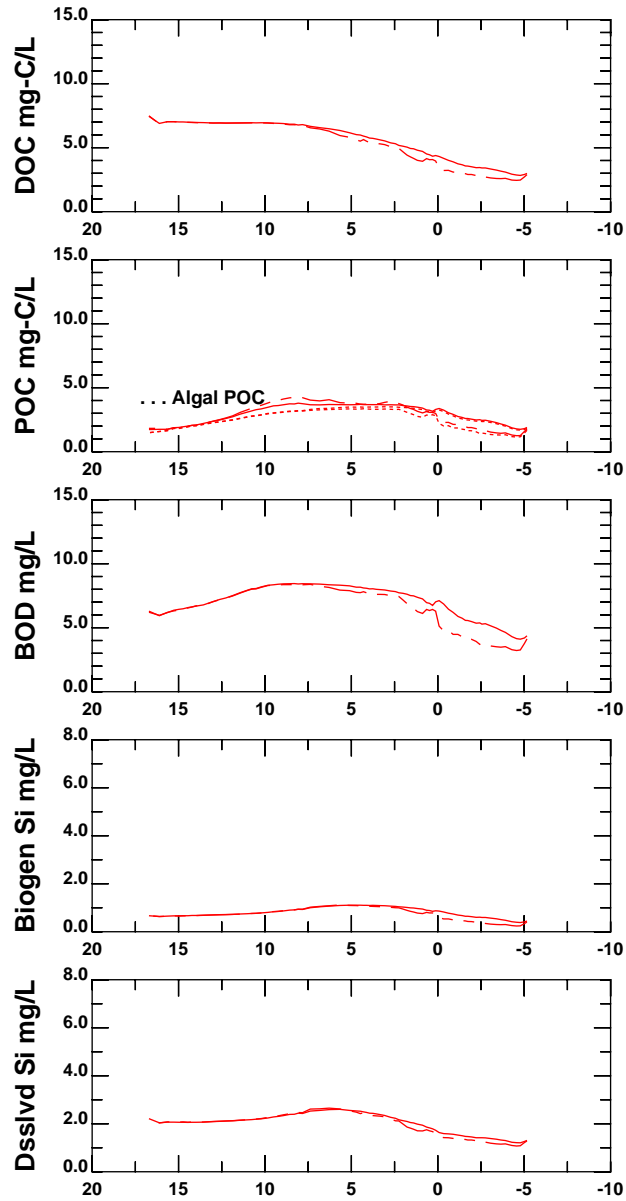
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jul 11,2000

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

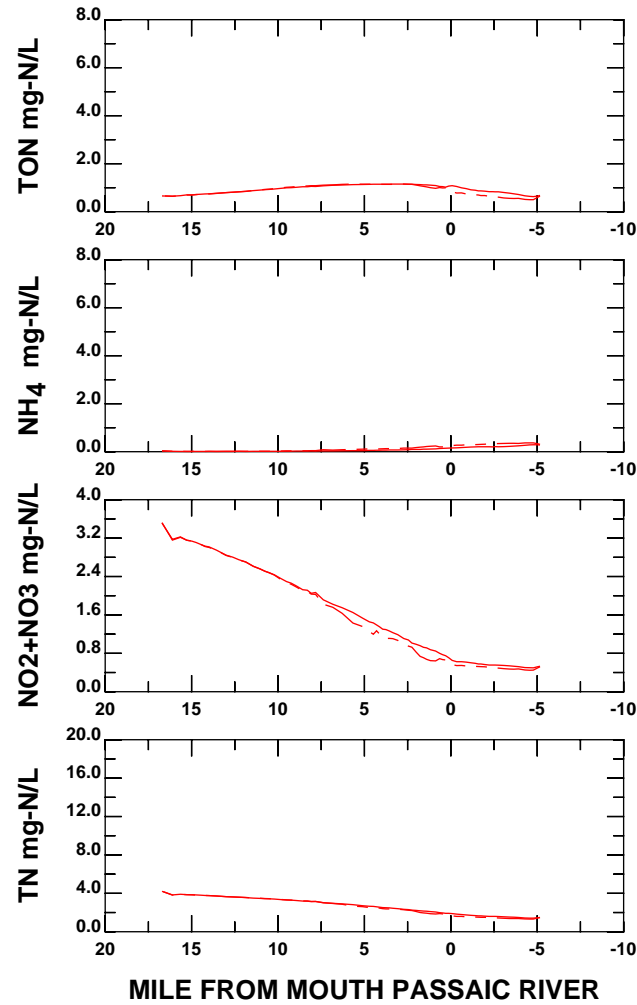
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900

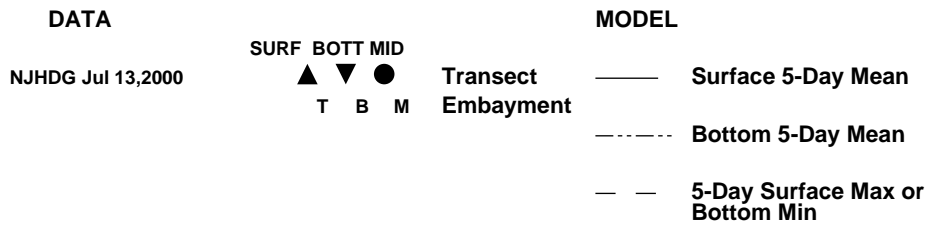
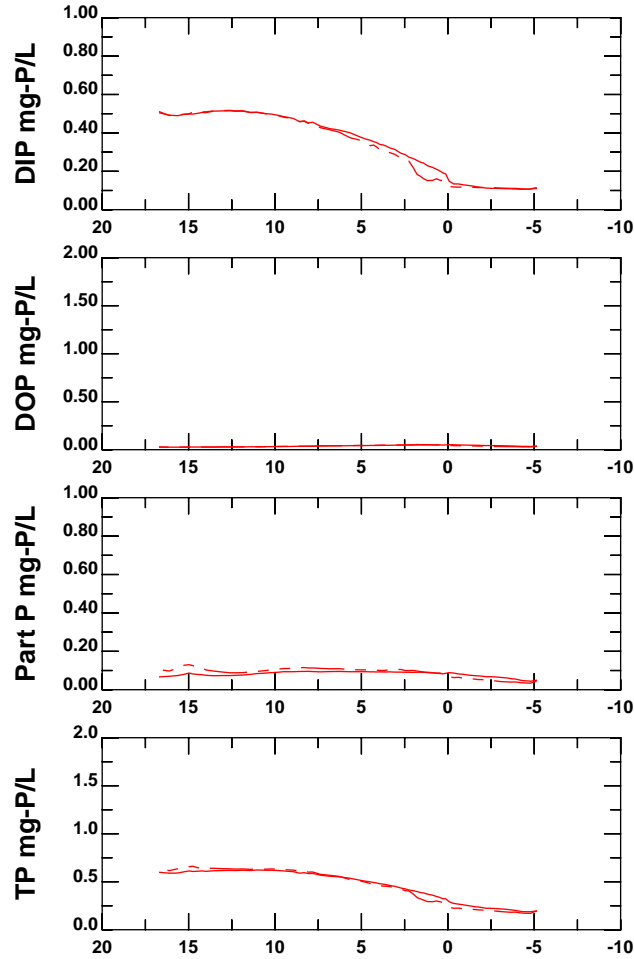
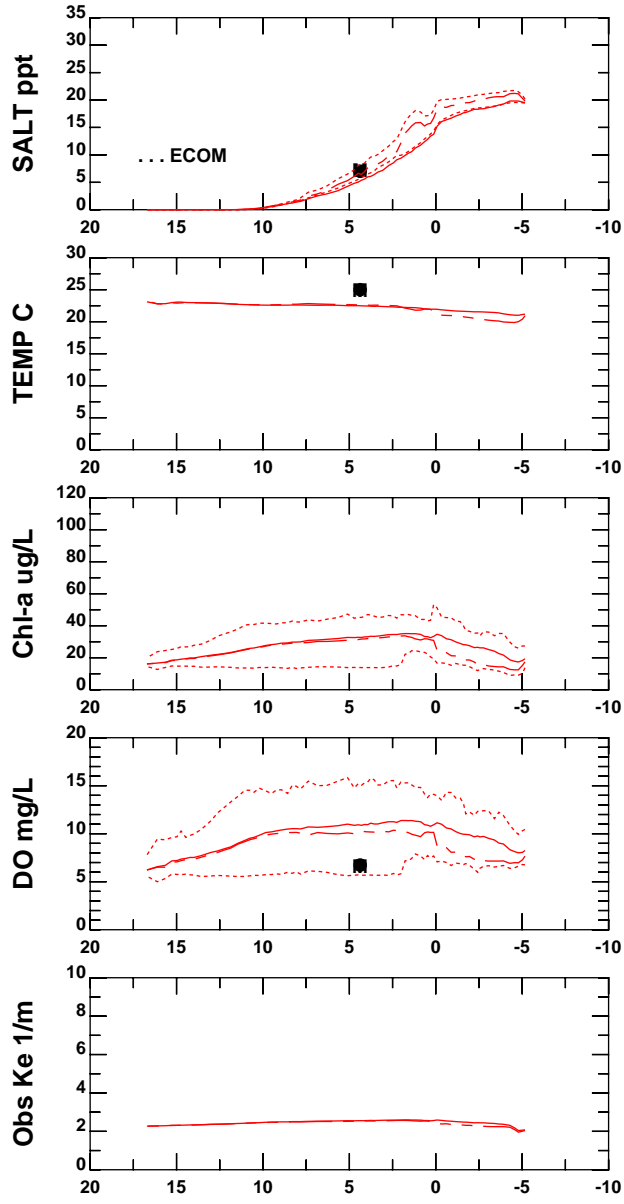


MILE FROM MOUTH PASSAIC RIVER

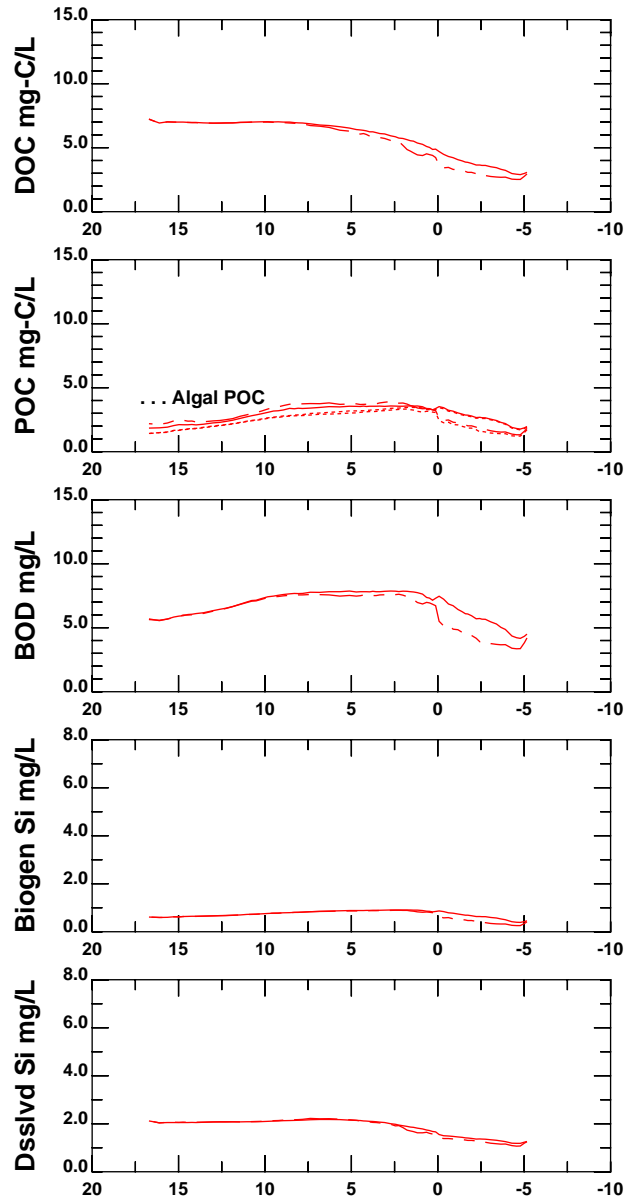
DATA  
NJHDG Jul 11,2000

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



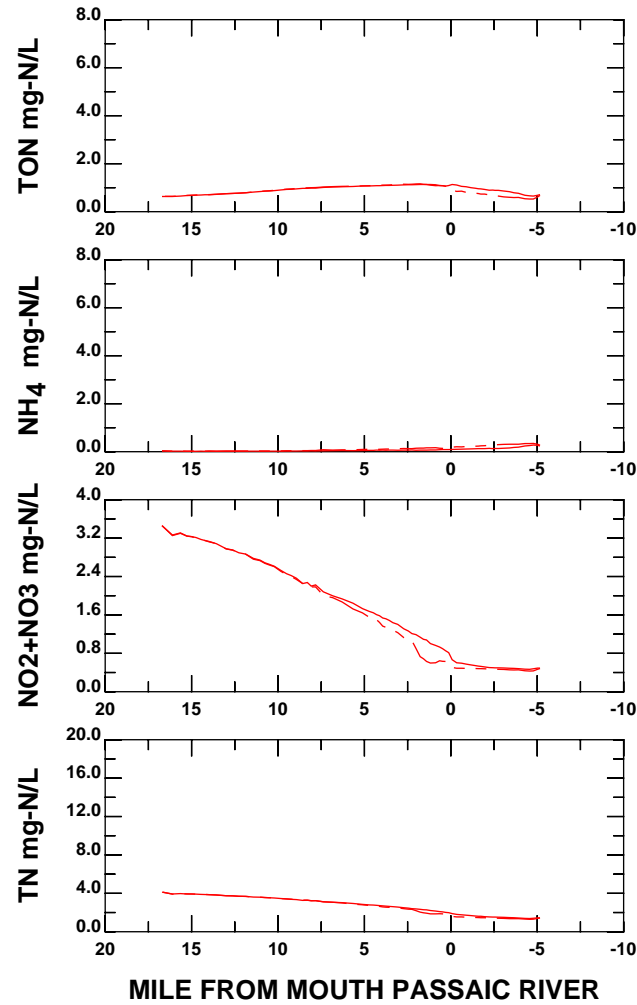
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900

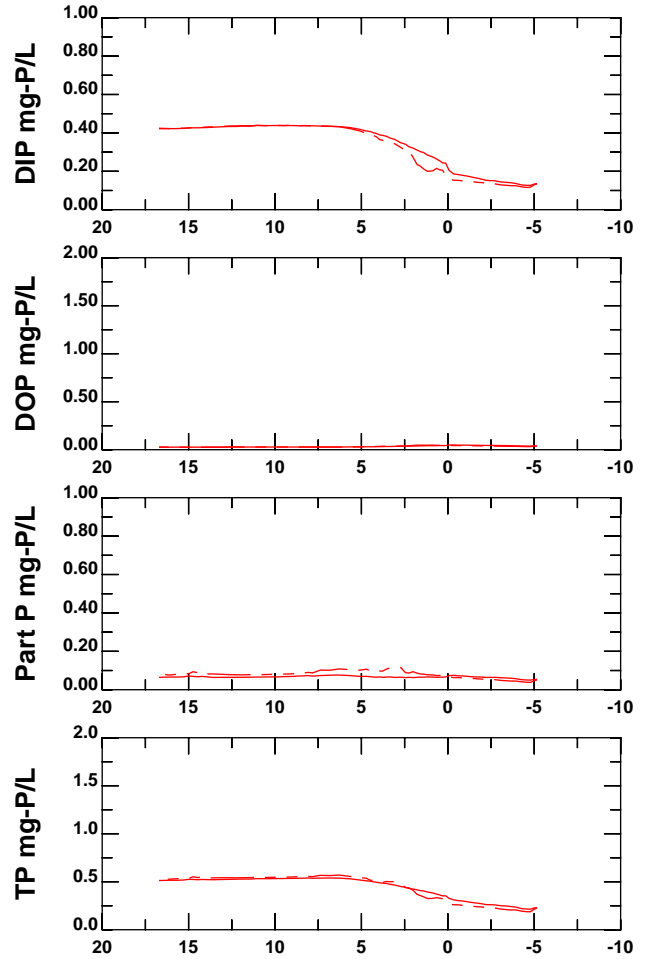
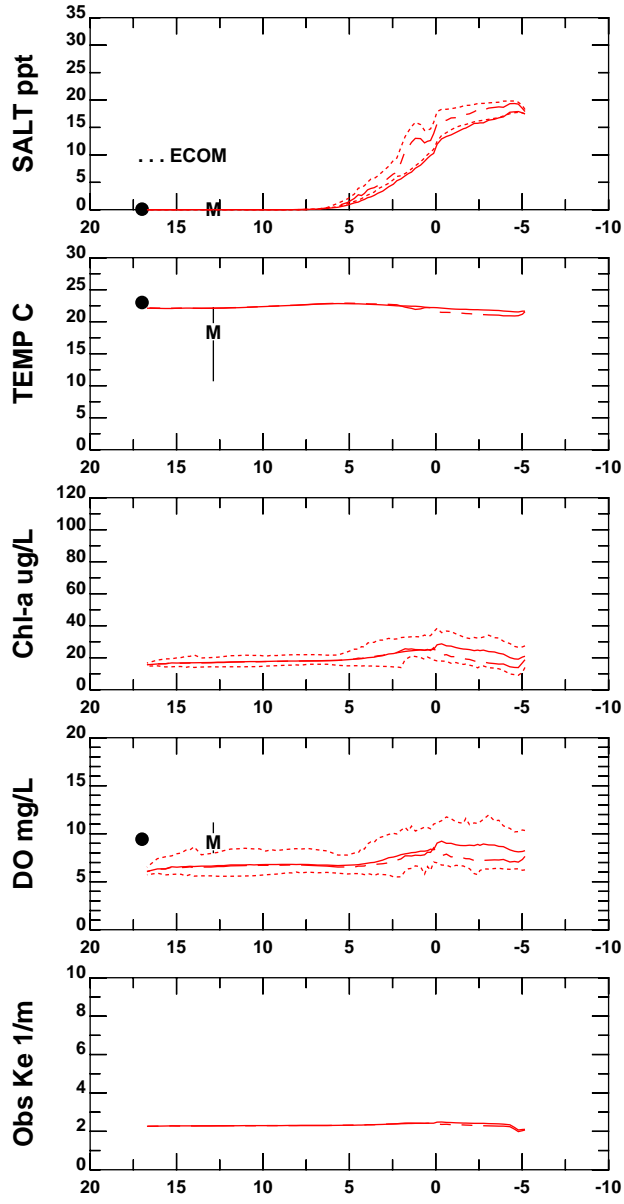


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jul 13,2000

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



**DATA**  
NJHDG Jul 20,2000

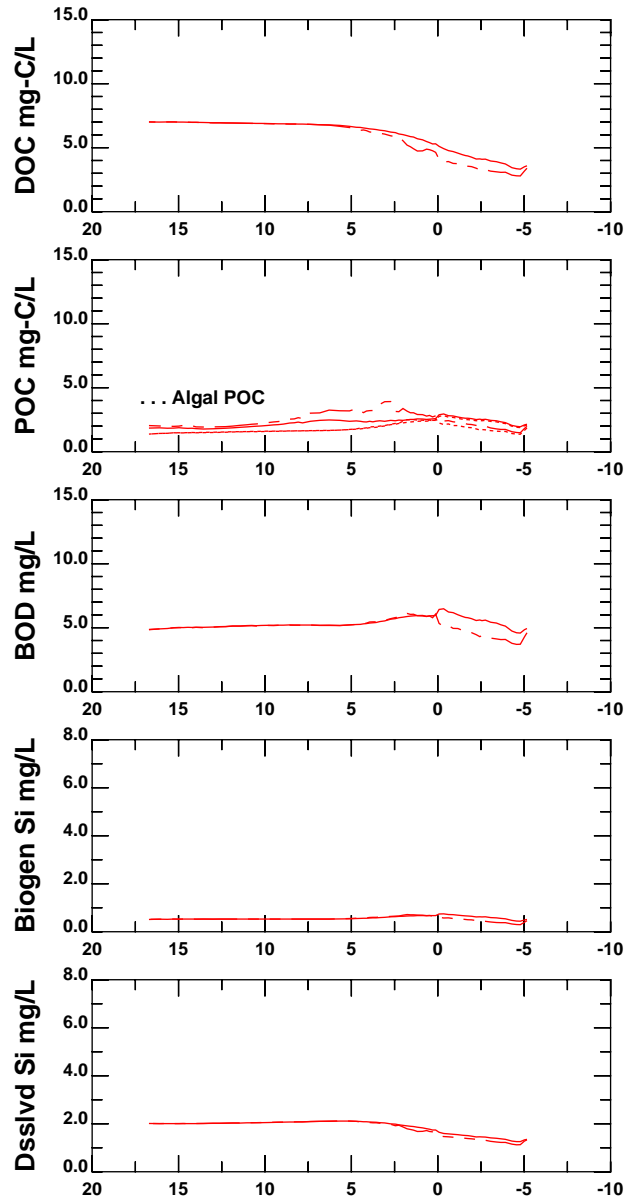
**MODEL**

SURF BOTT MID  
▲ ▼ ●  
T B M

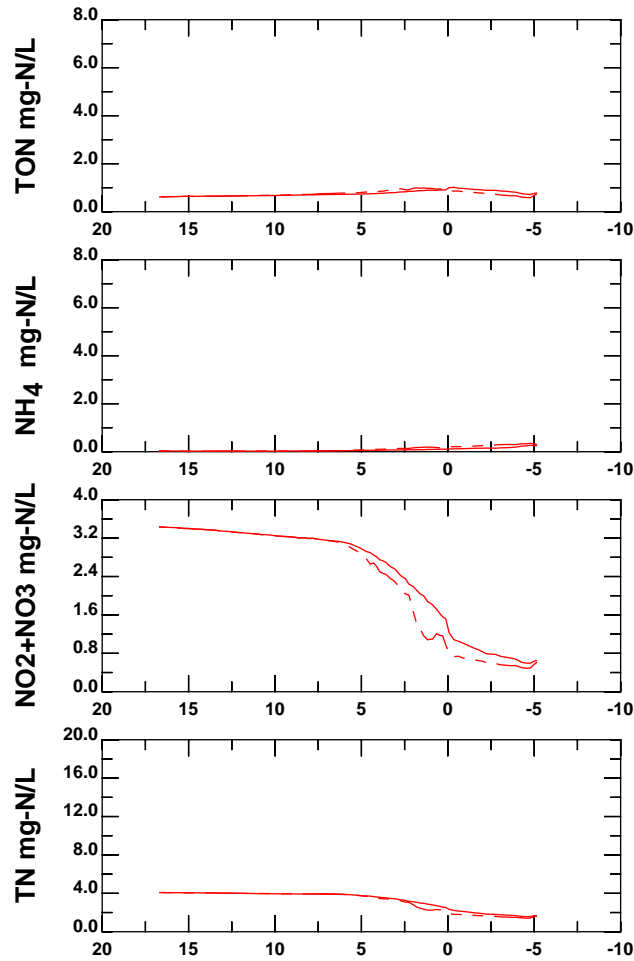
Transect  
Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER



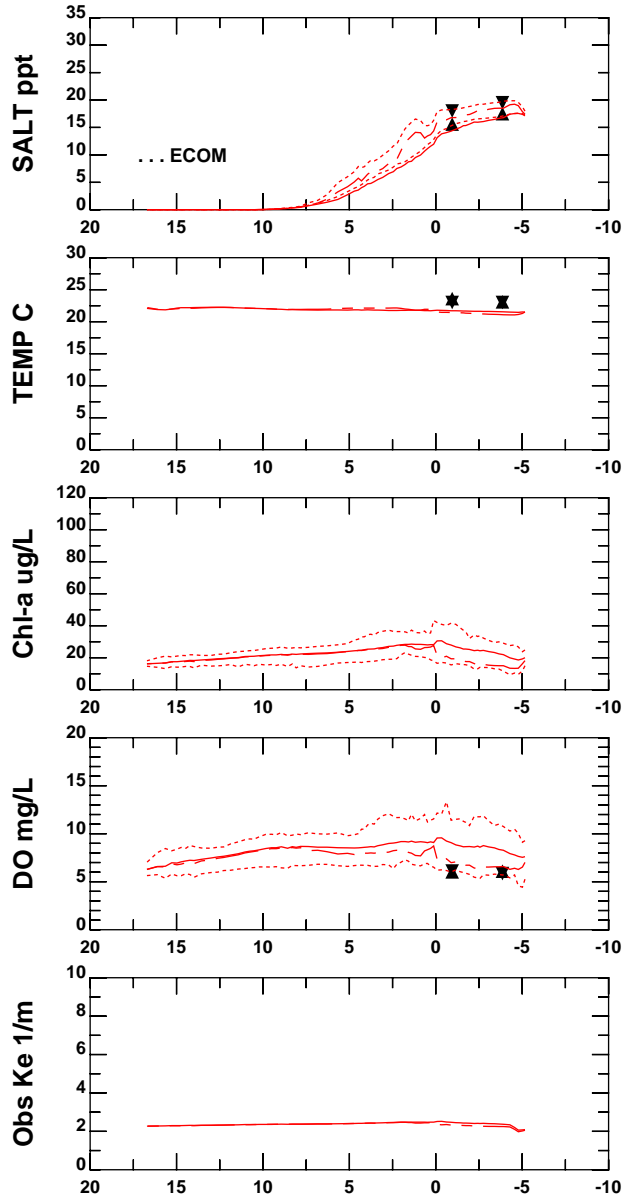
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jul 20,2000

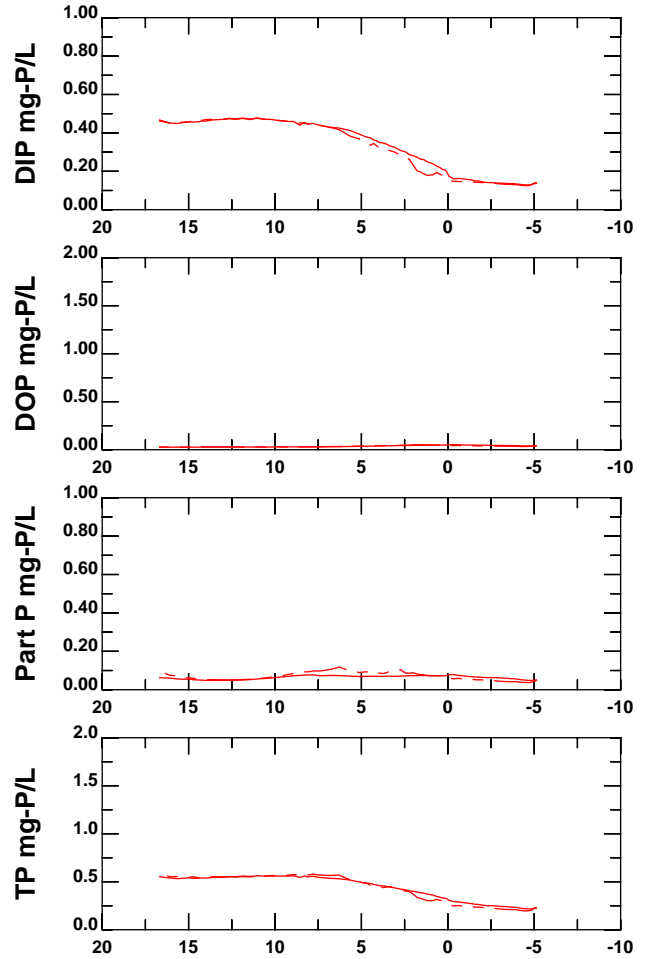
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

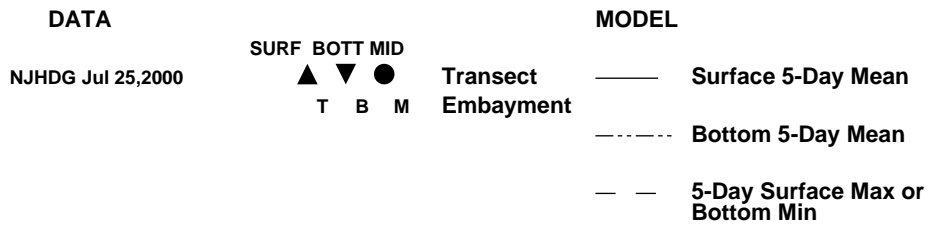
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

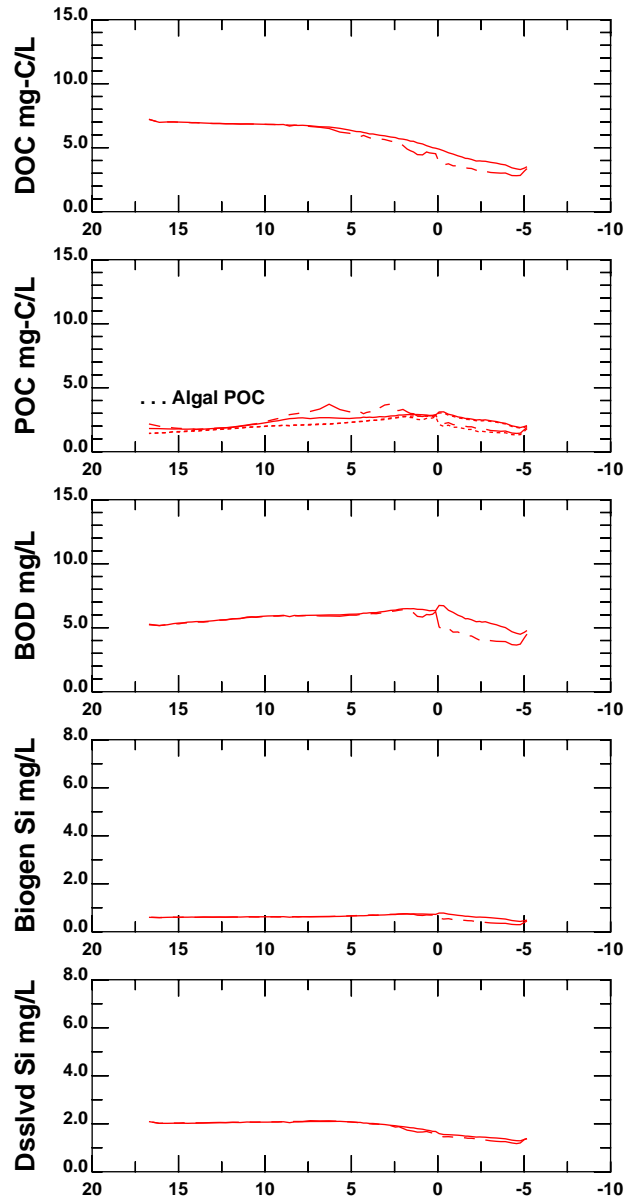


MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900

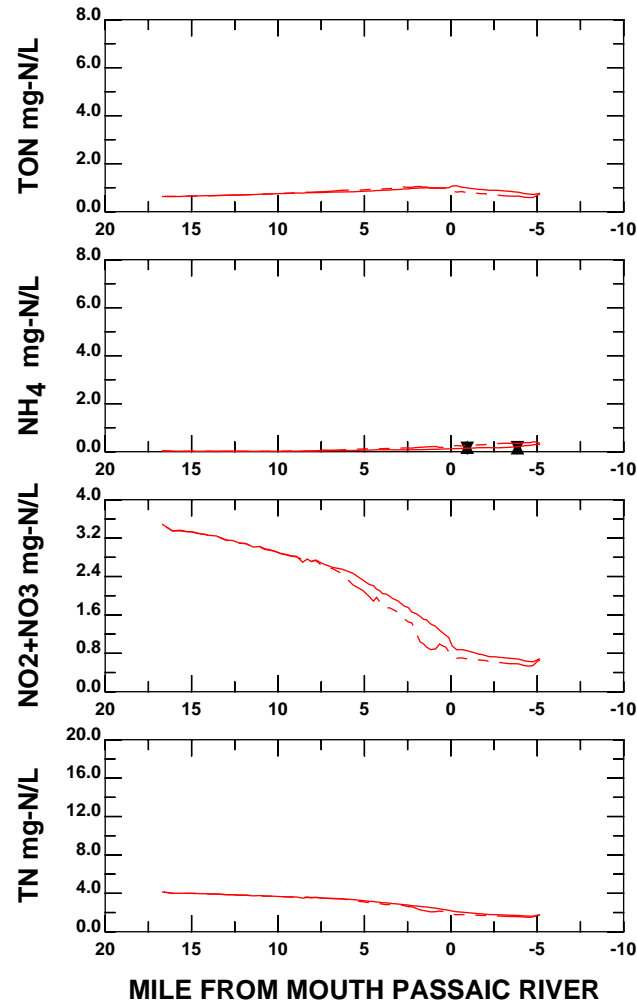




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jul 25,2000

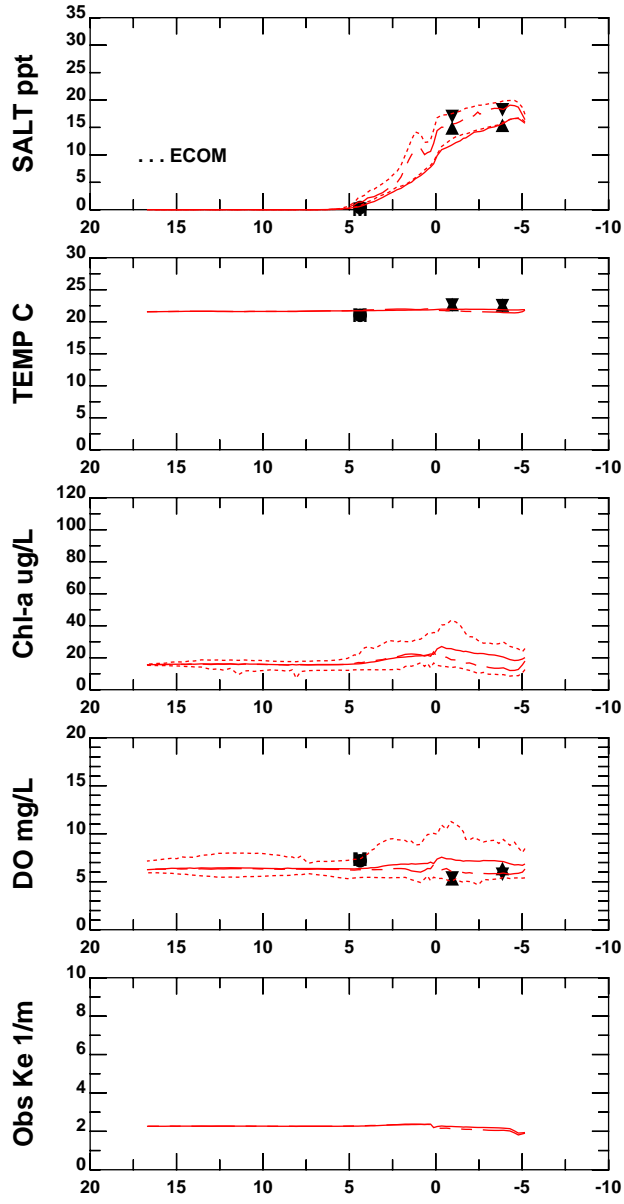
SURF BOTT MID

▲ ▼ ●  
T B M

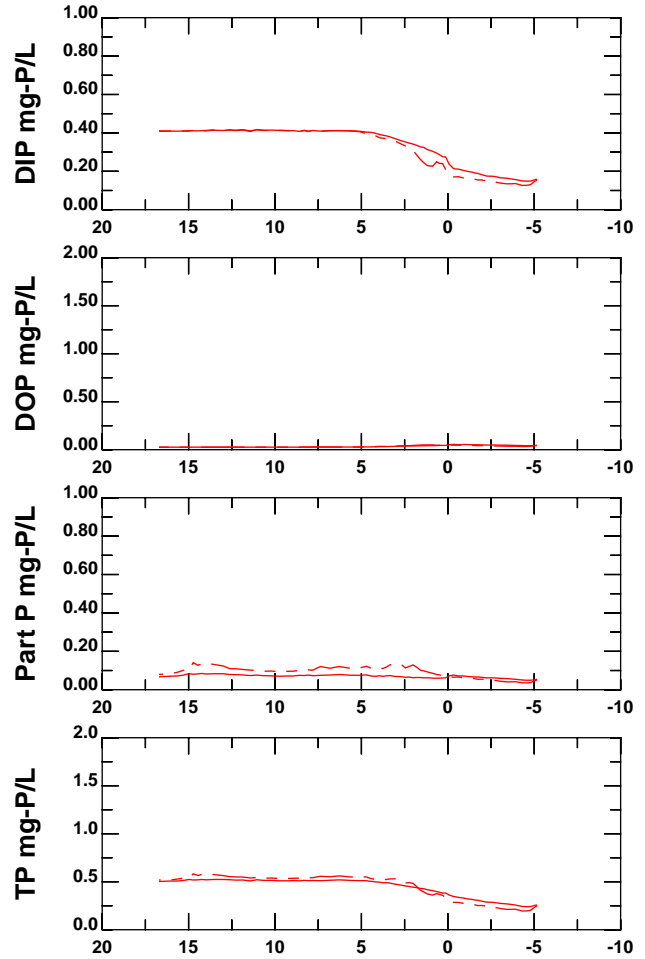
Transect  
Embayment

#### MODEL

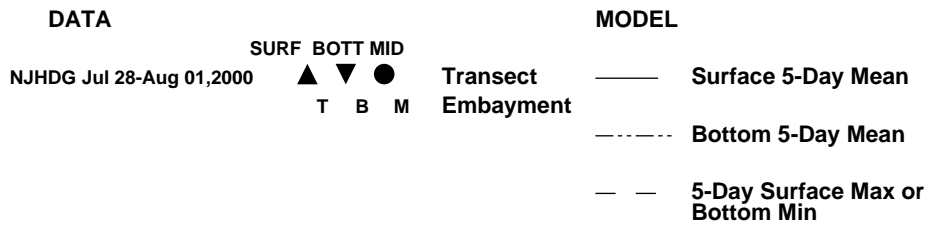
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min



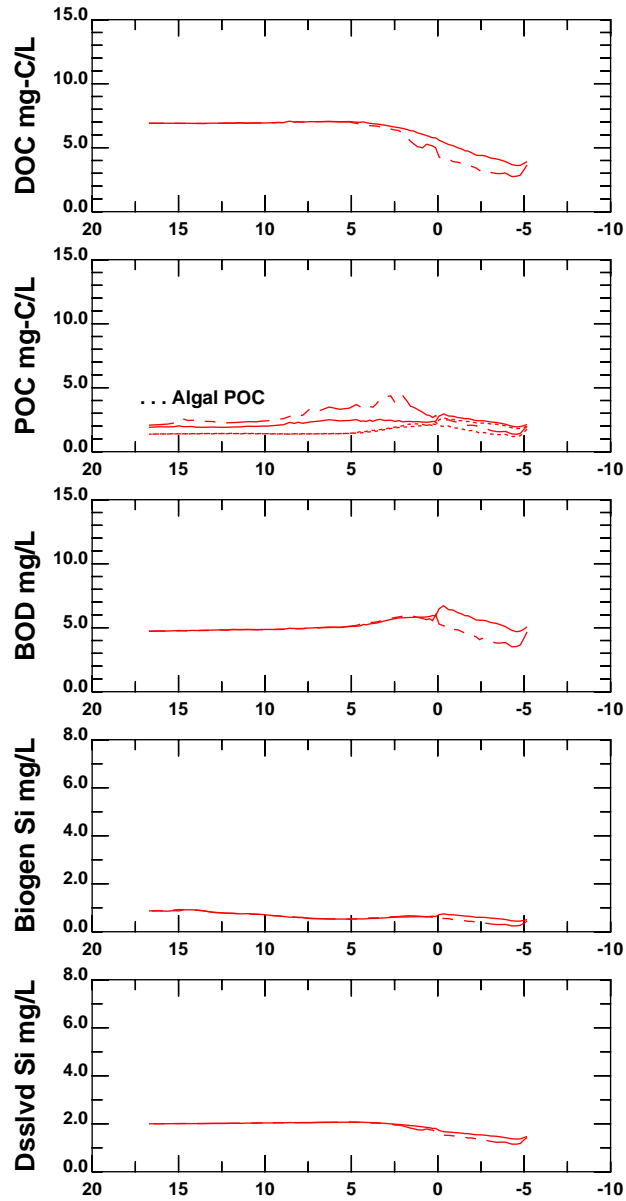
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

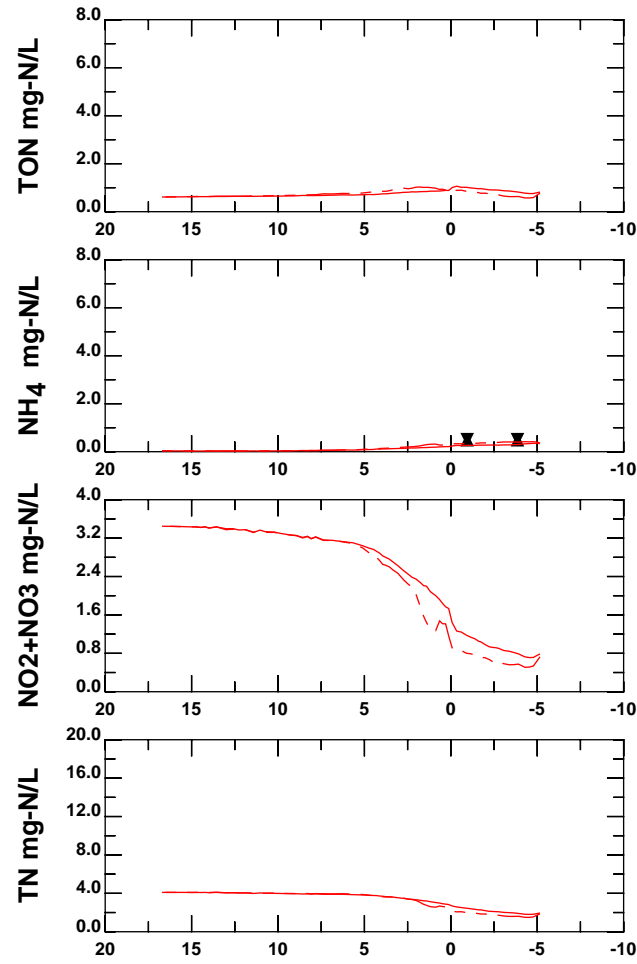


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900

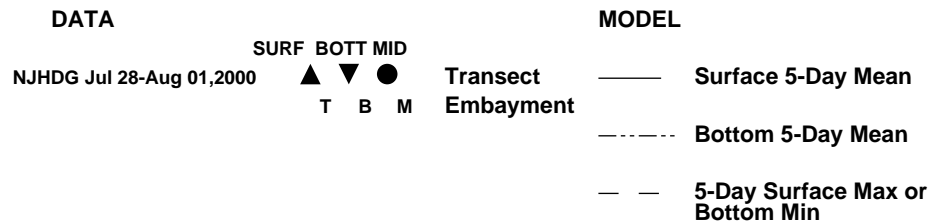


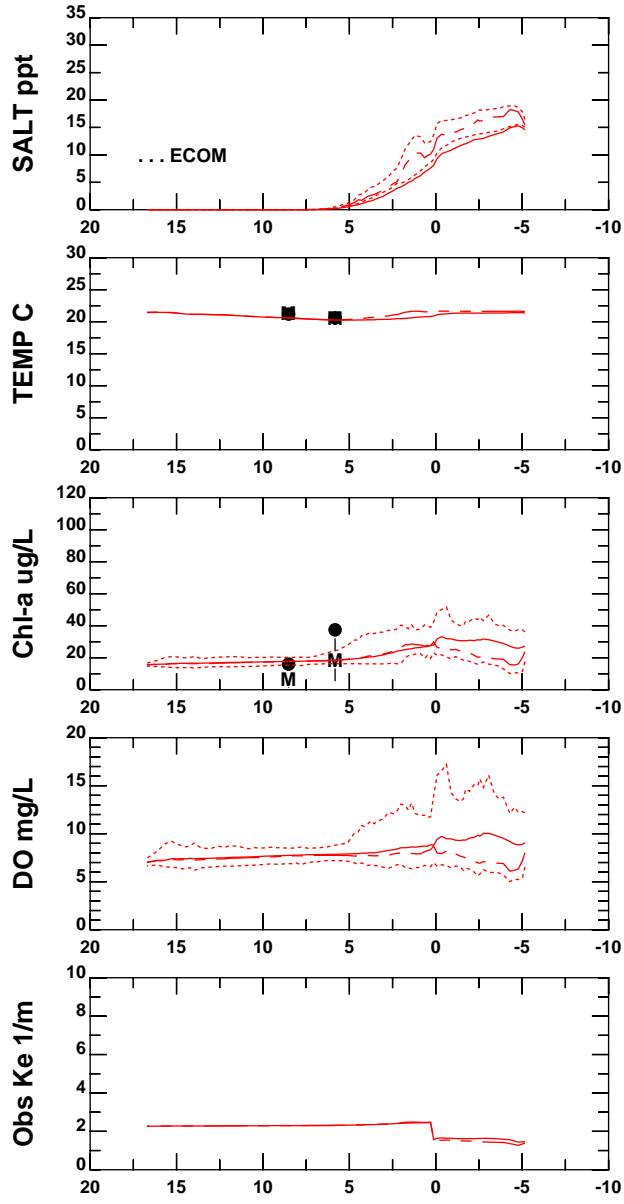
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900

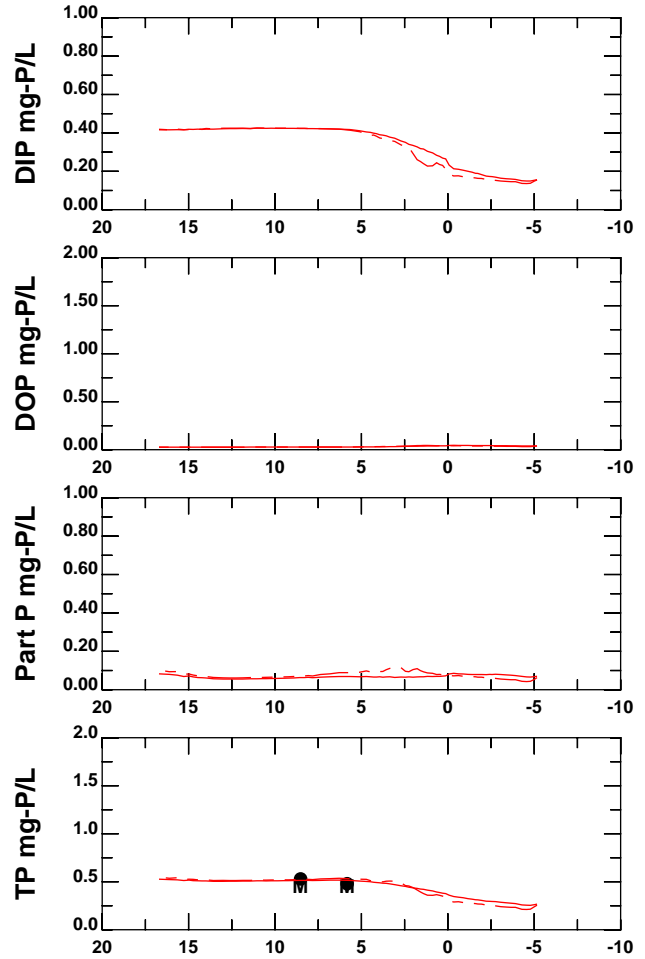


MILE FROM MOUTH PASSAIC RIVER

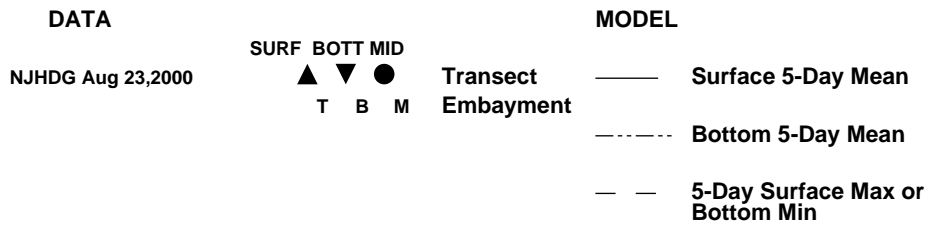




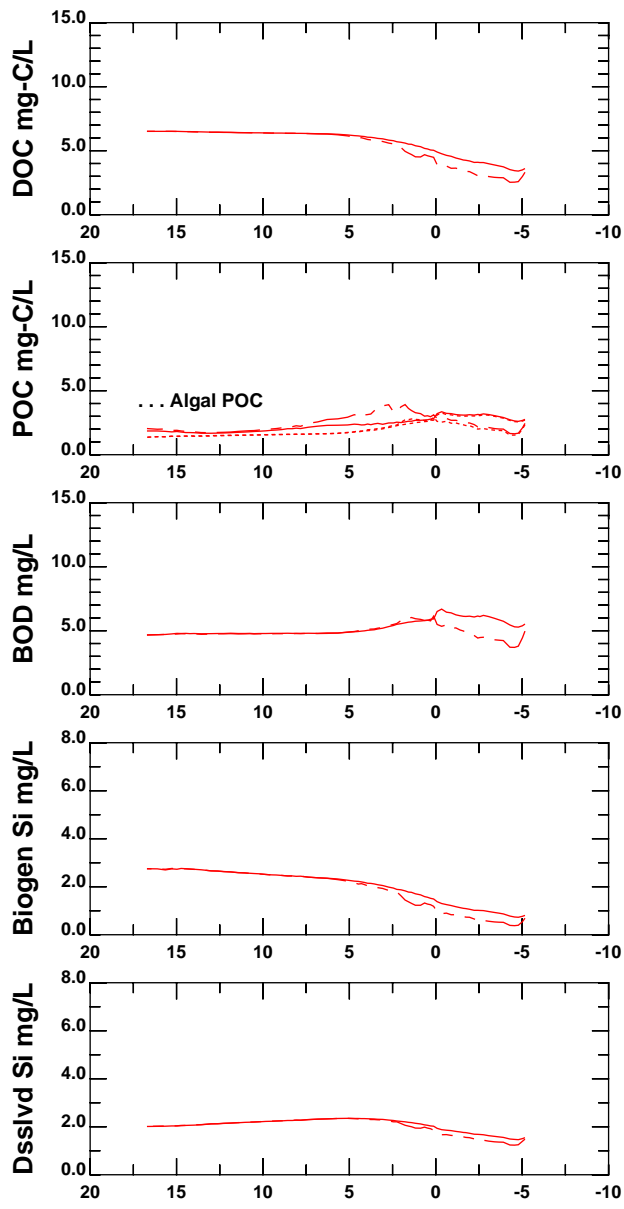
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



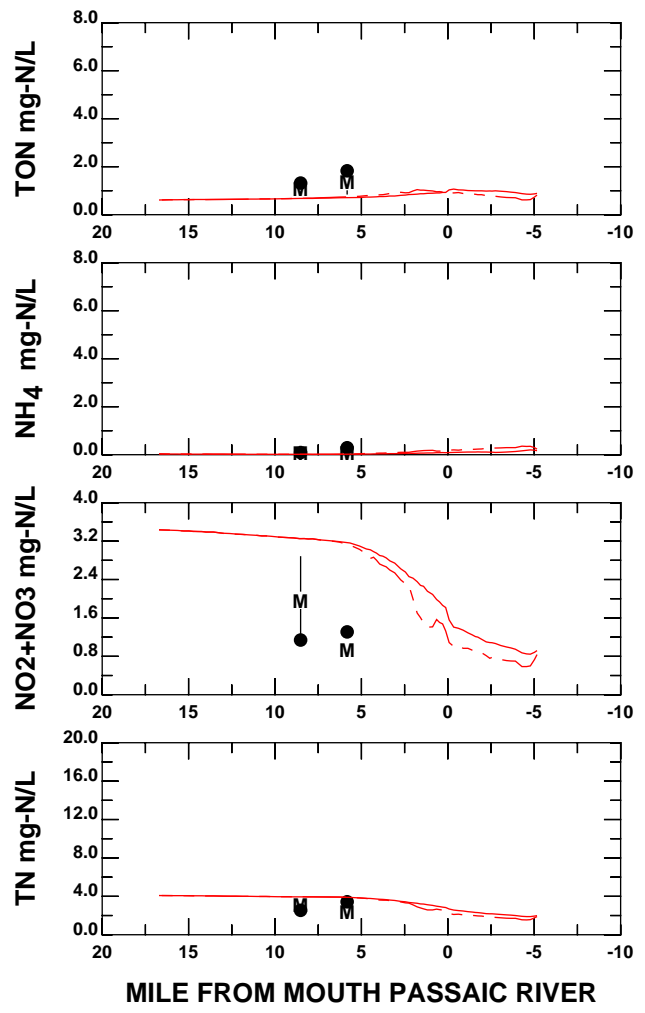
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900



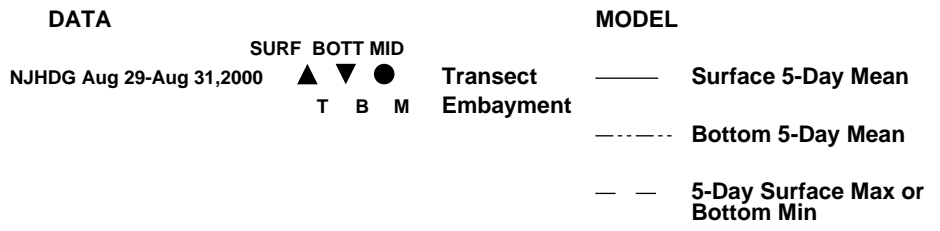
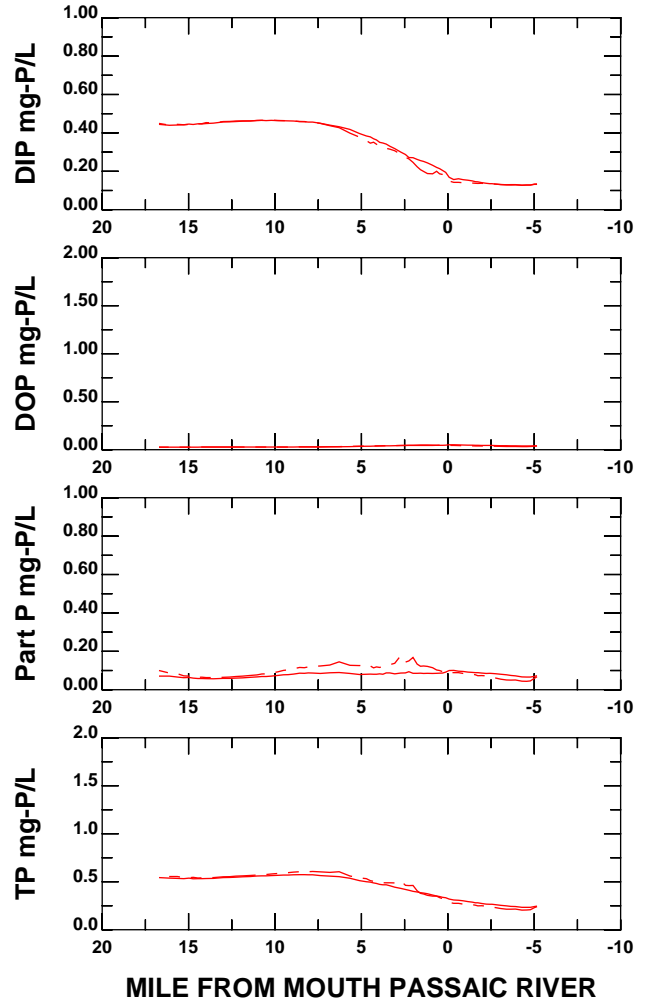
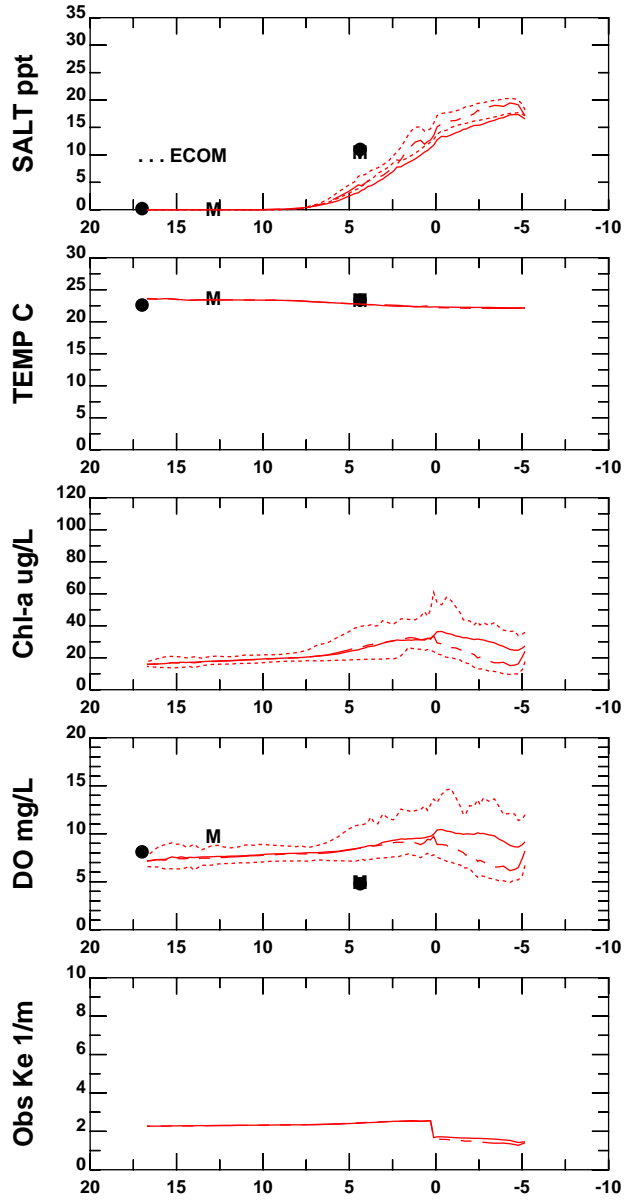
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Aug 23,2000

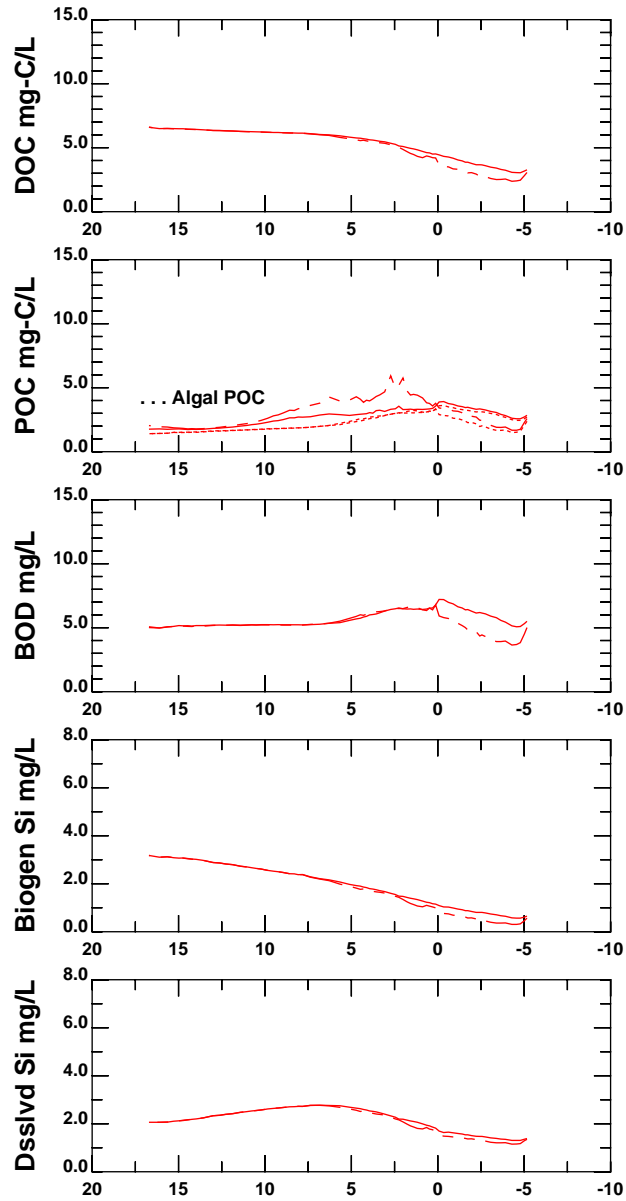
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



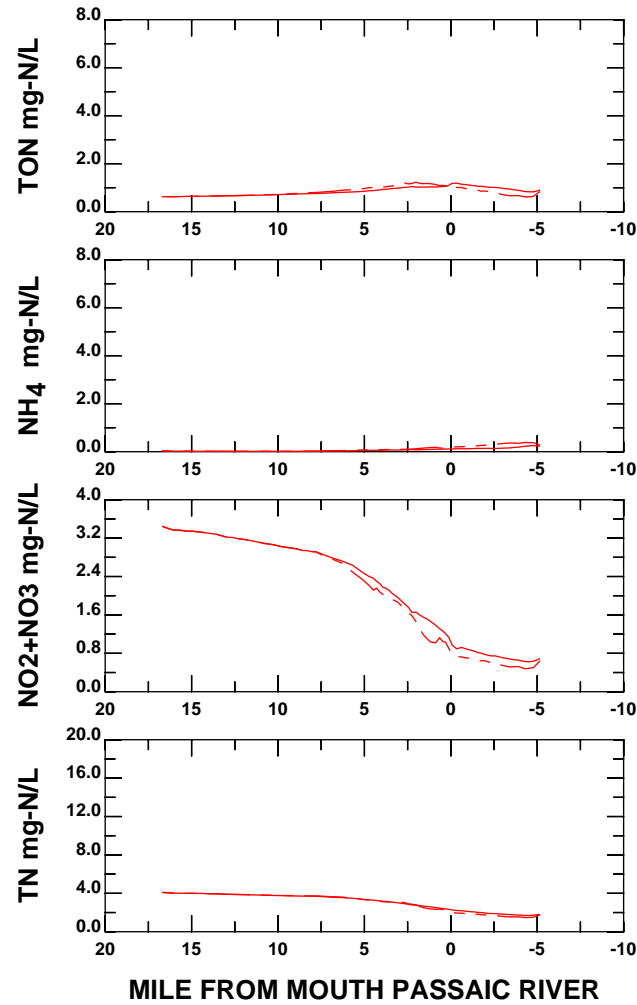
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900



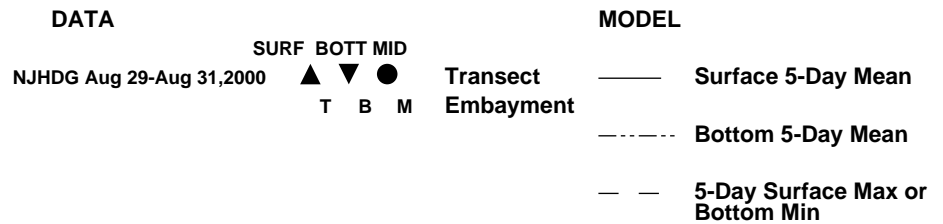
MILE FROM MOUTH PASSAIC RIVER

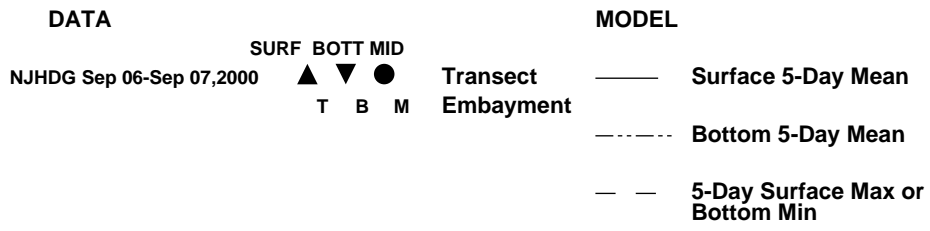
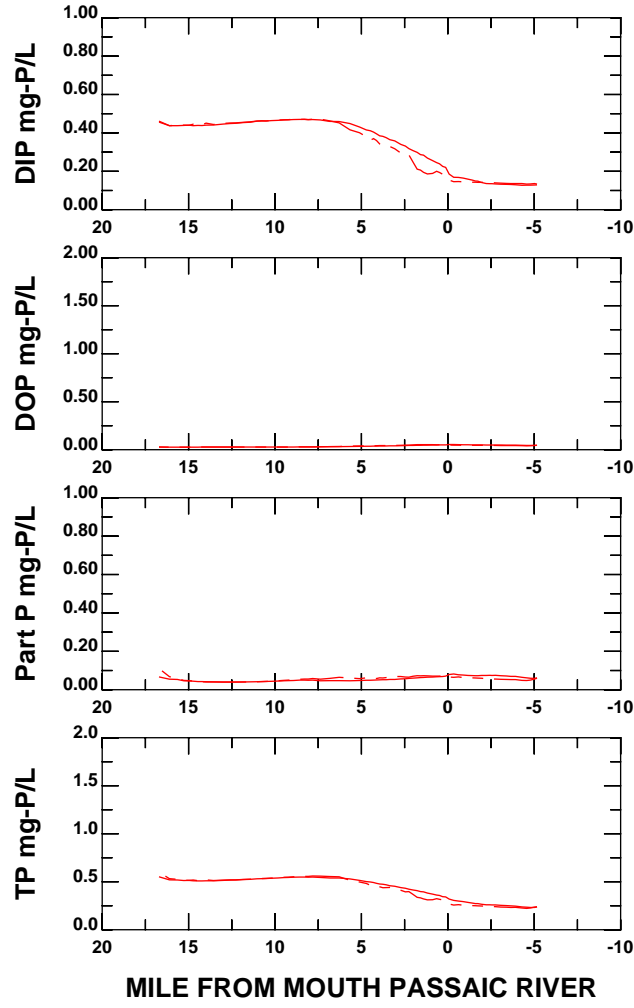
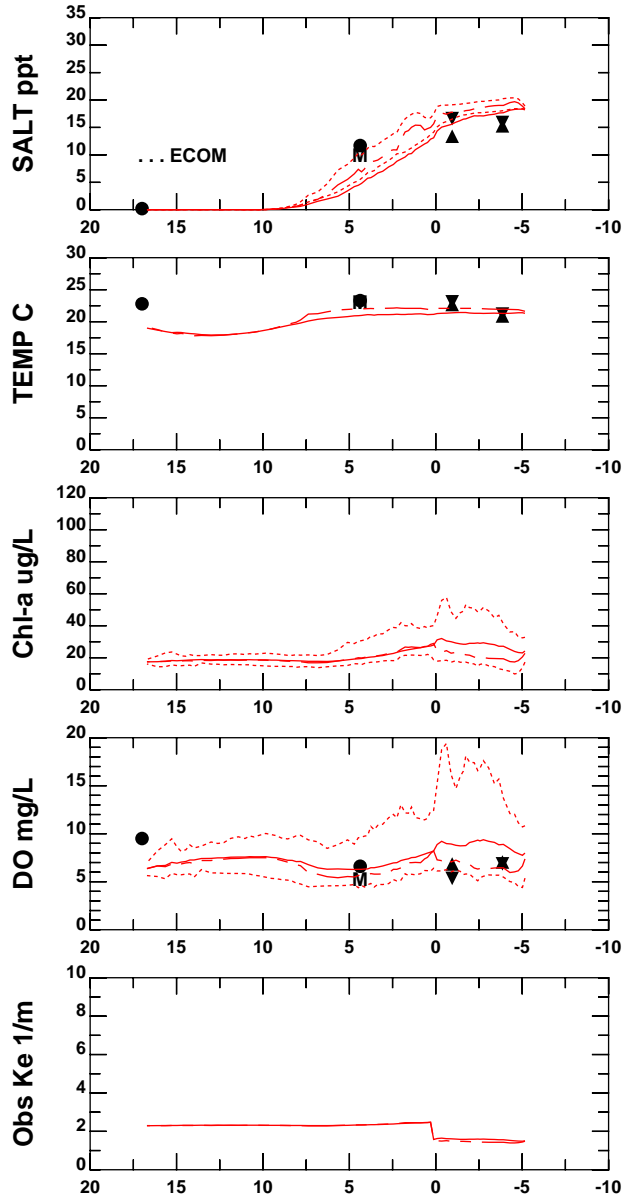
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900



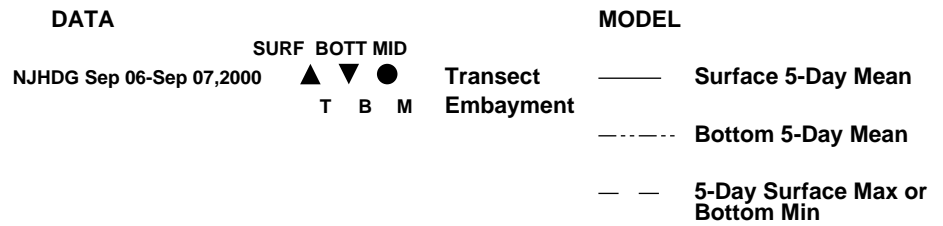
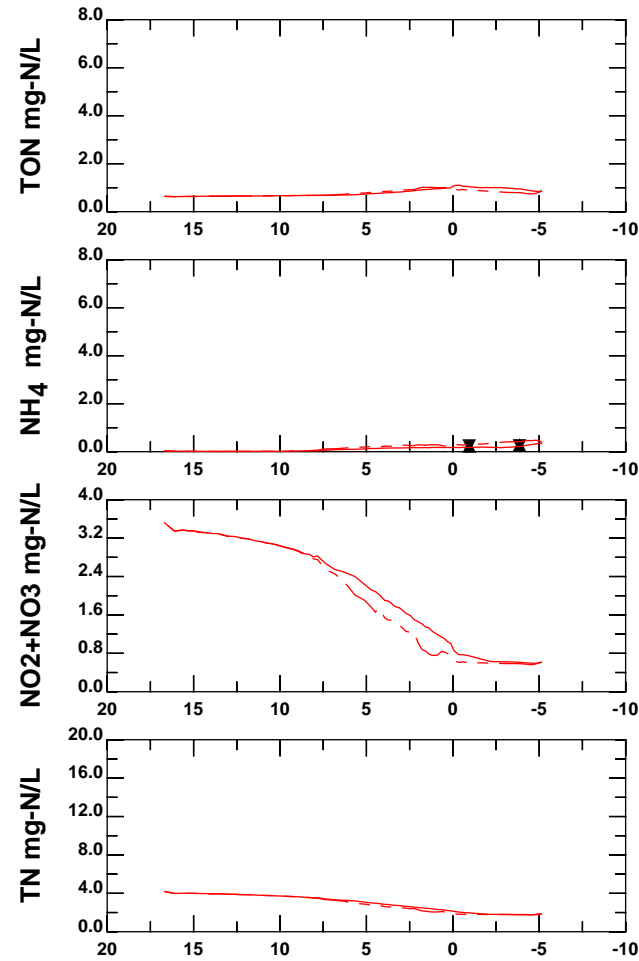
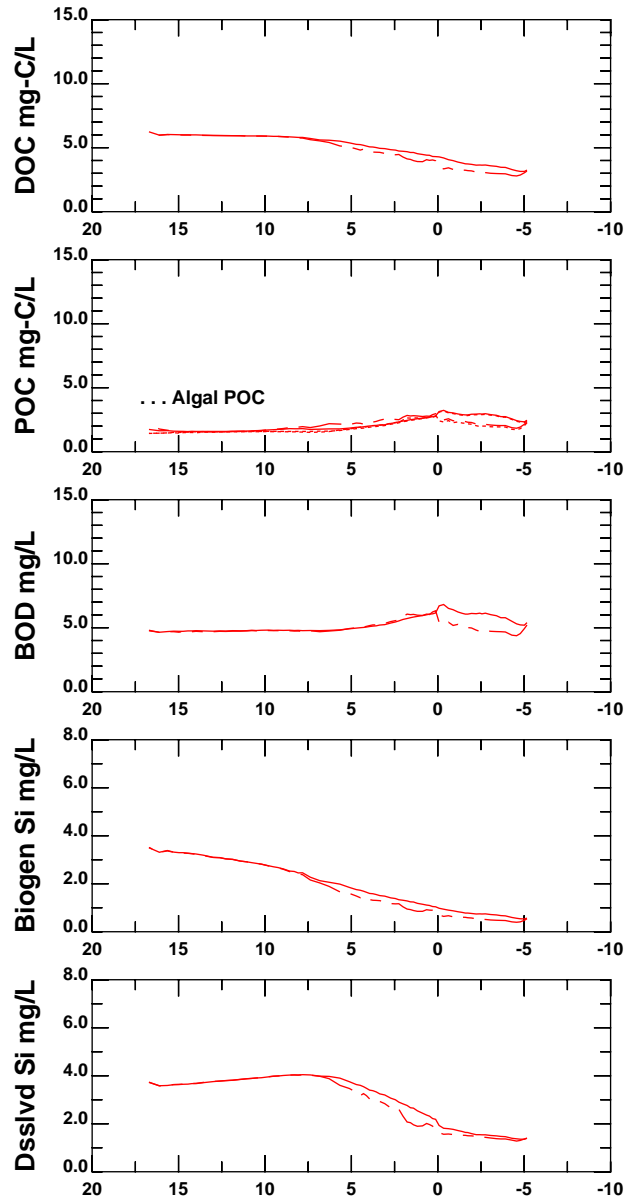
MILE FROM MOUTH PASSAIC RIVER



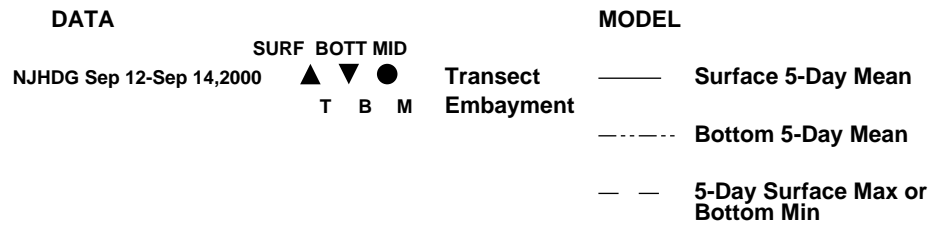
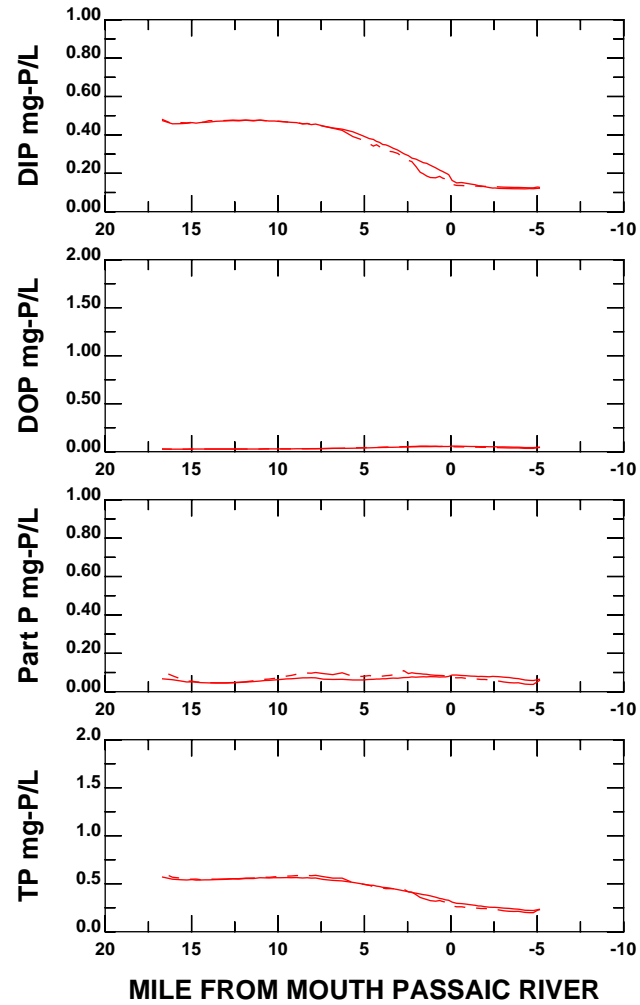
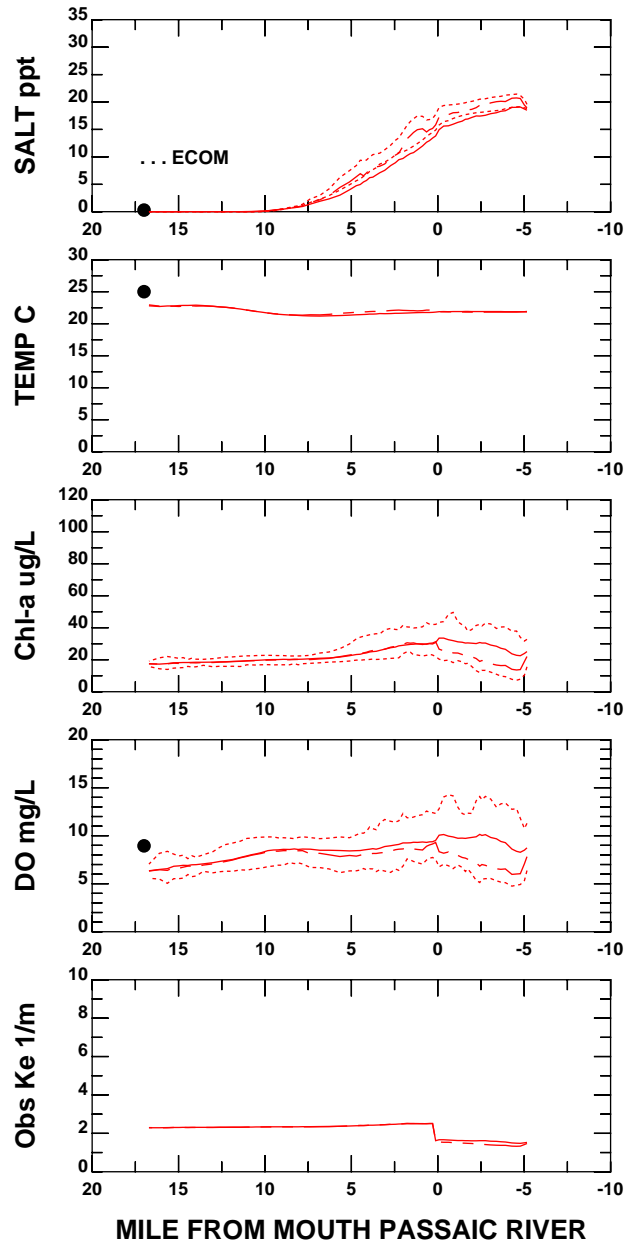


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900

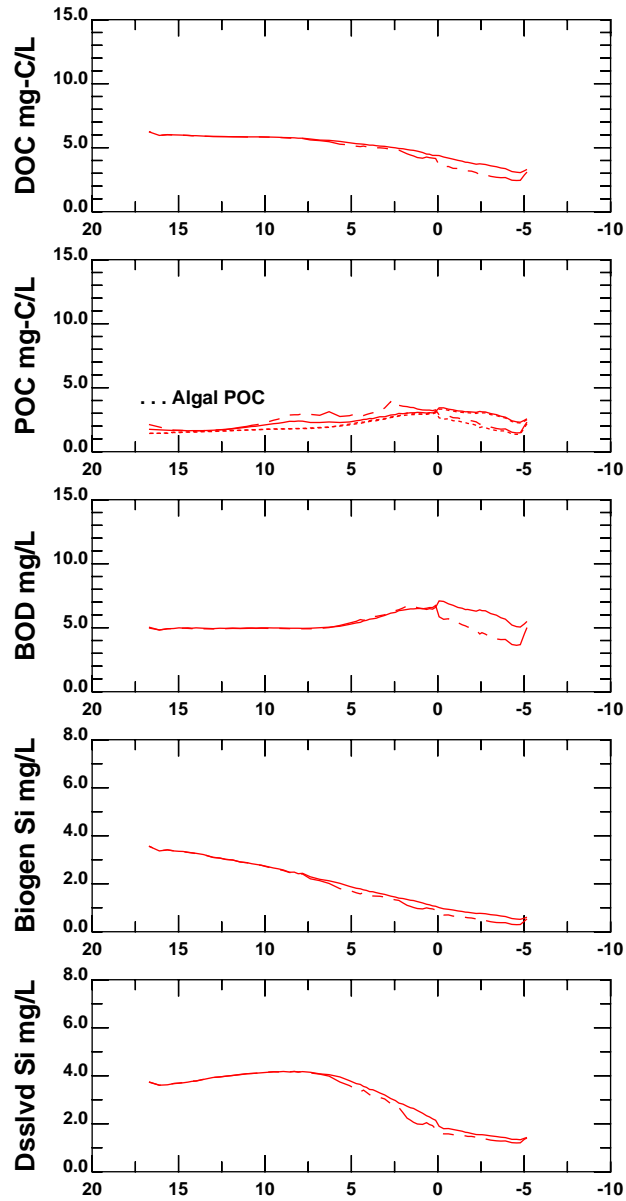




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900



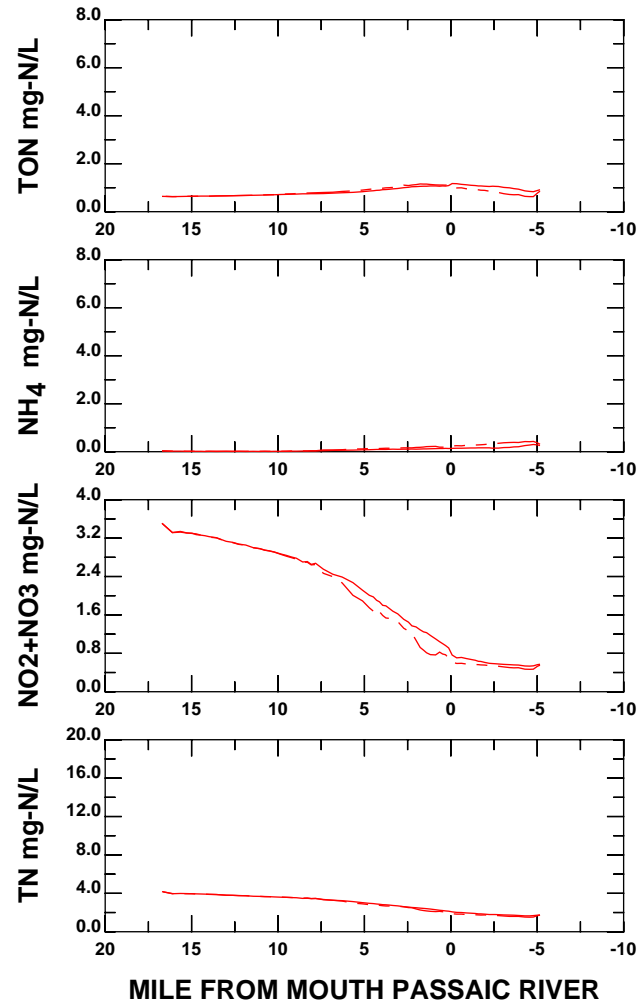
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900



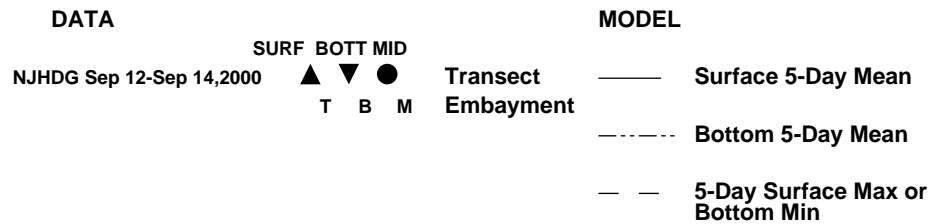
MILE FROM MOUTH PASSAIC RIVER

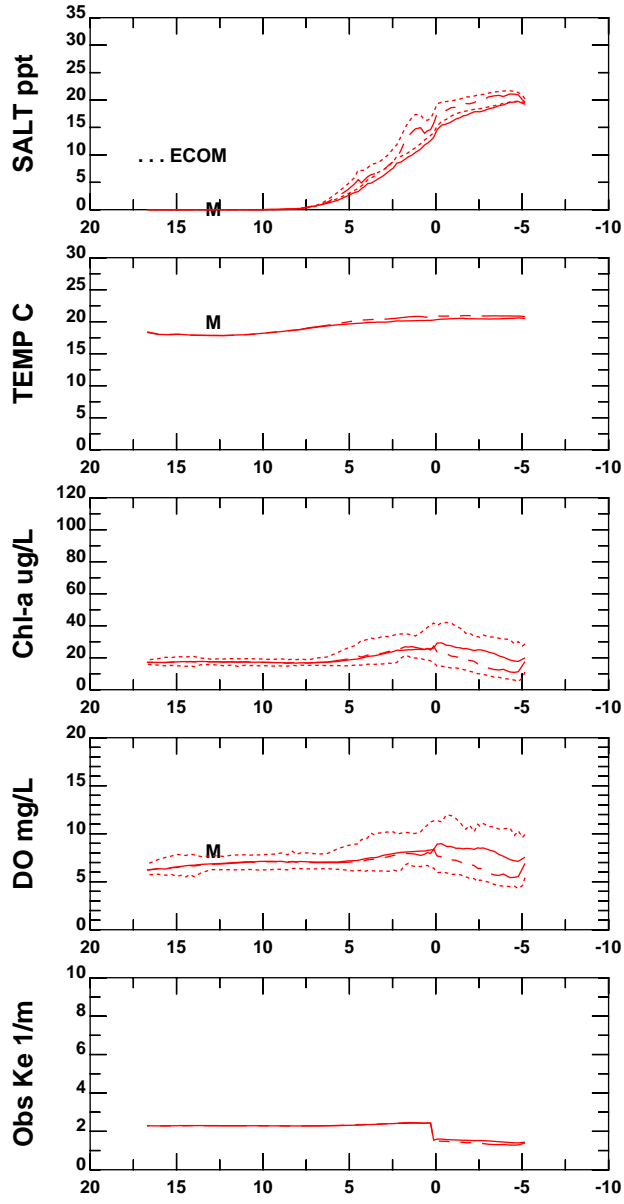
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900



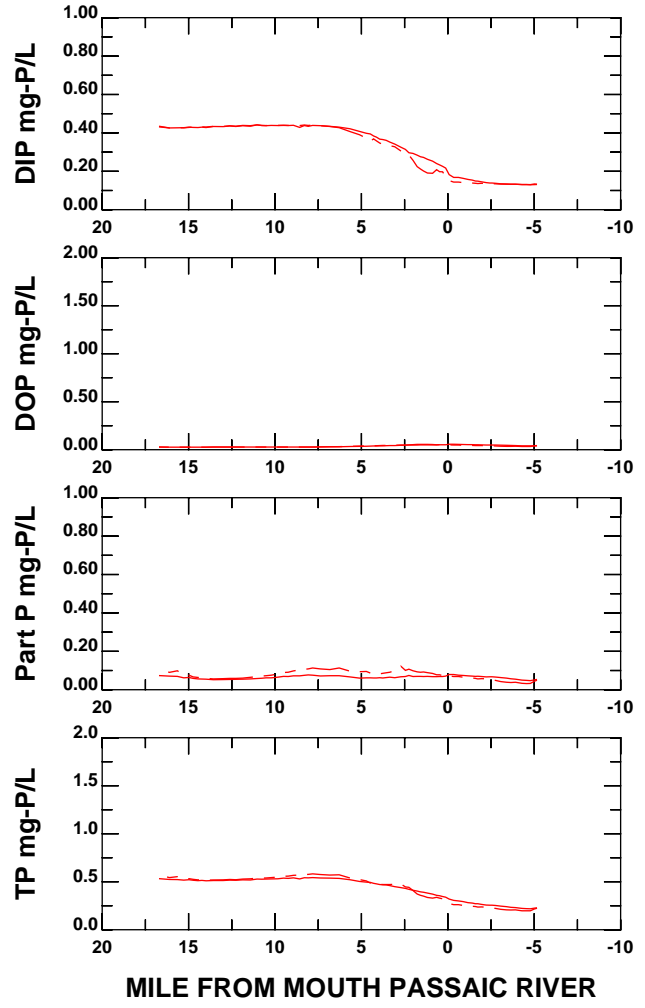
MILE FROM MOUTH PASSAIC RIVER



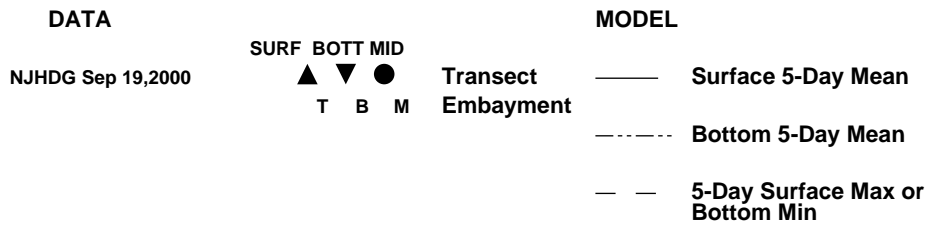


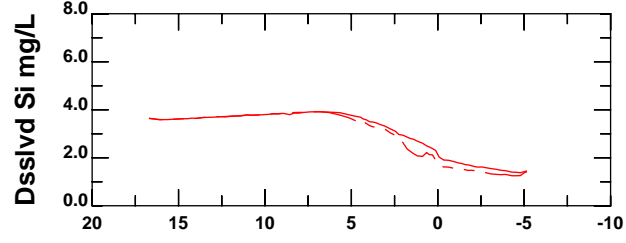
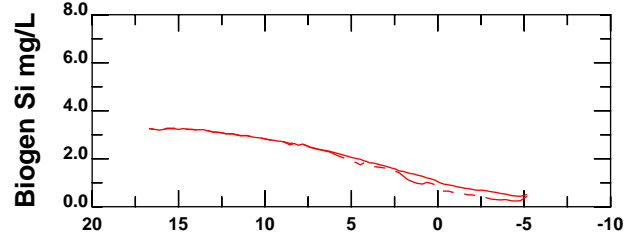
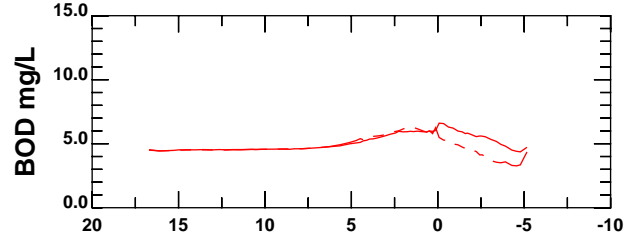
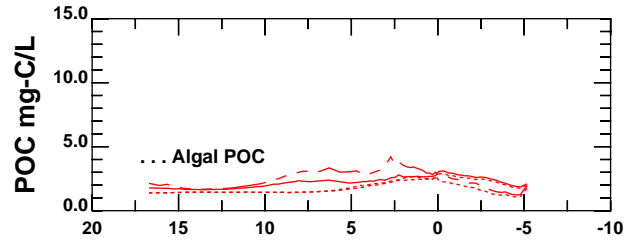
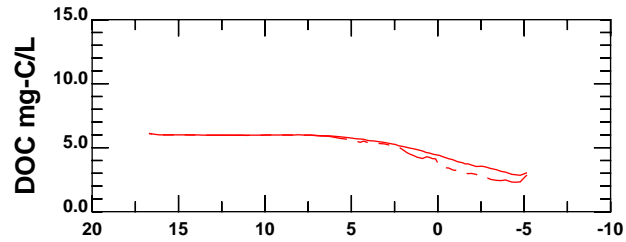
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

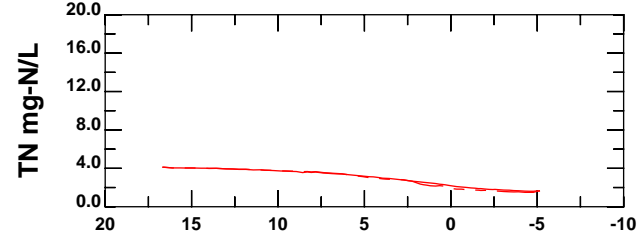
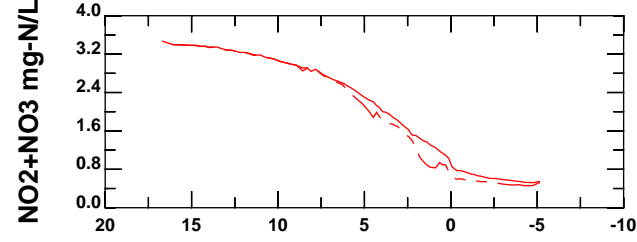
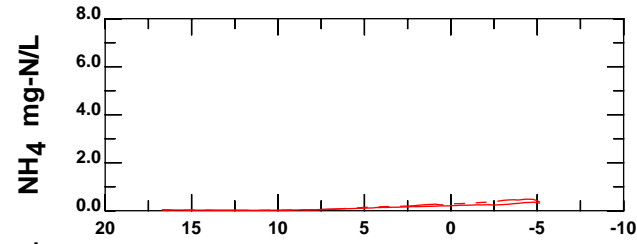
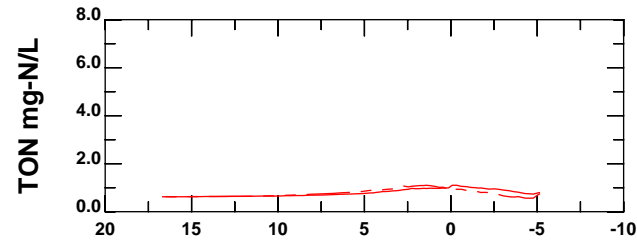




MILE FROM MOUTH PASSAIC RIVER

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 9900



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHGD Sep 19,2000

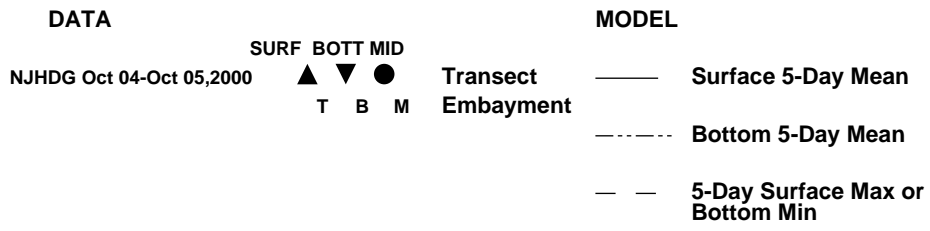
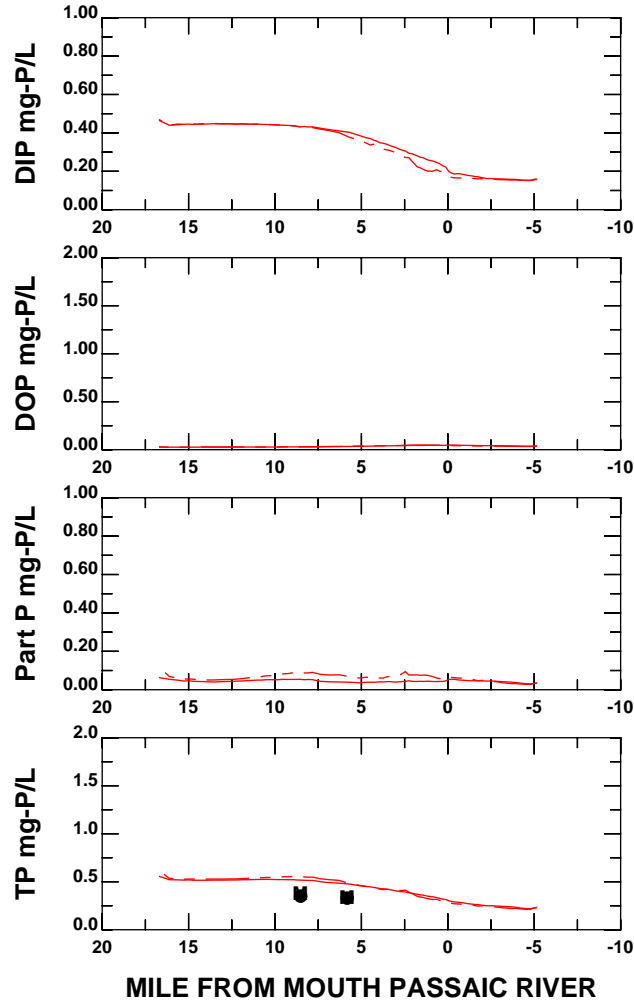
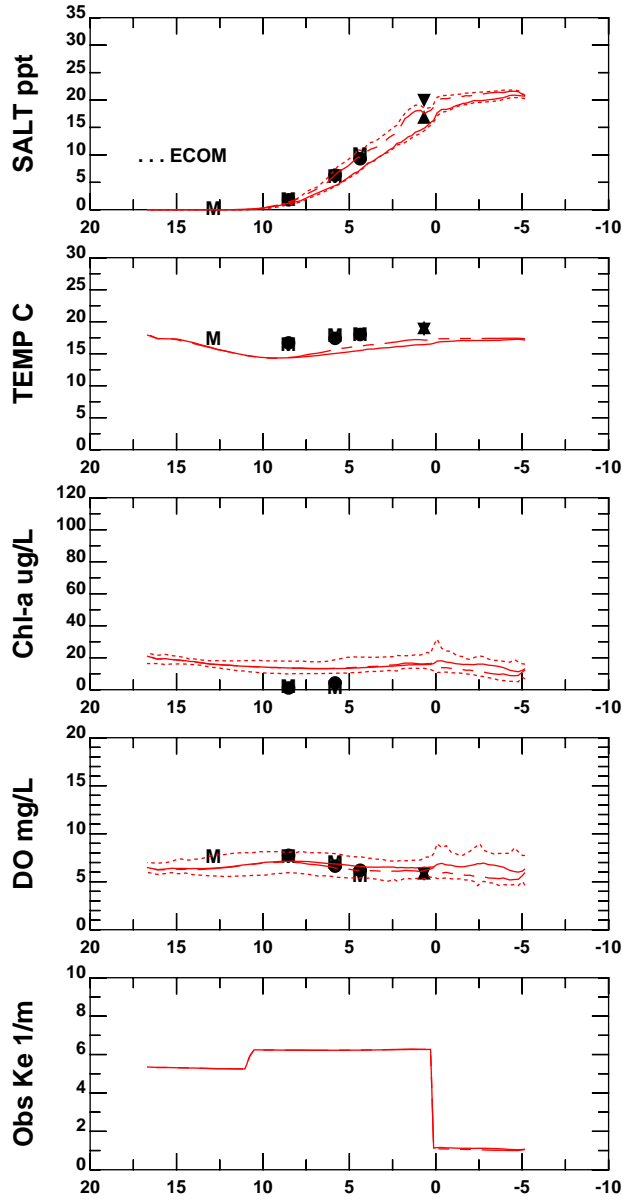
SURF BOTT MID

▲ ▼ ●  
T B M

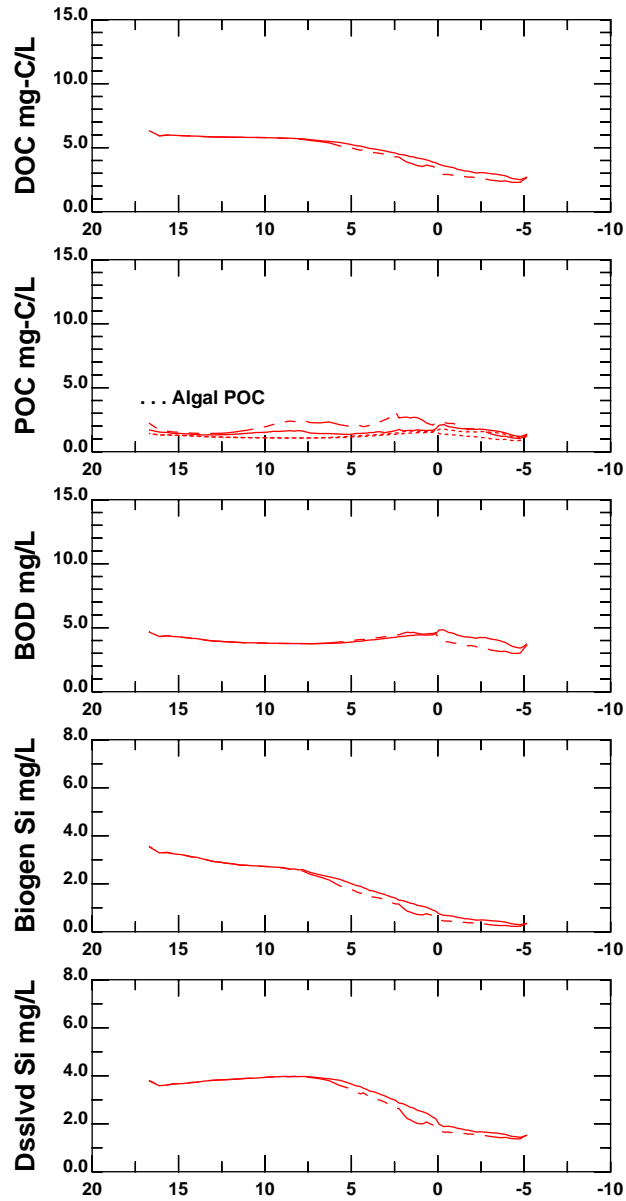
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



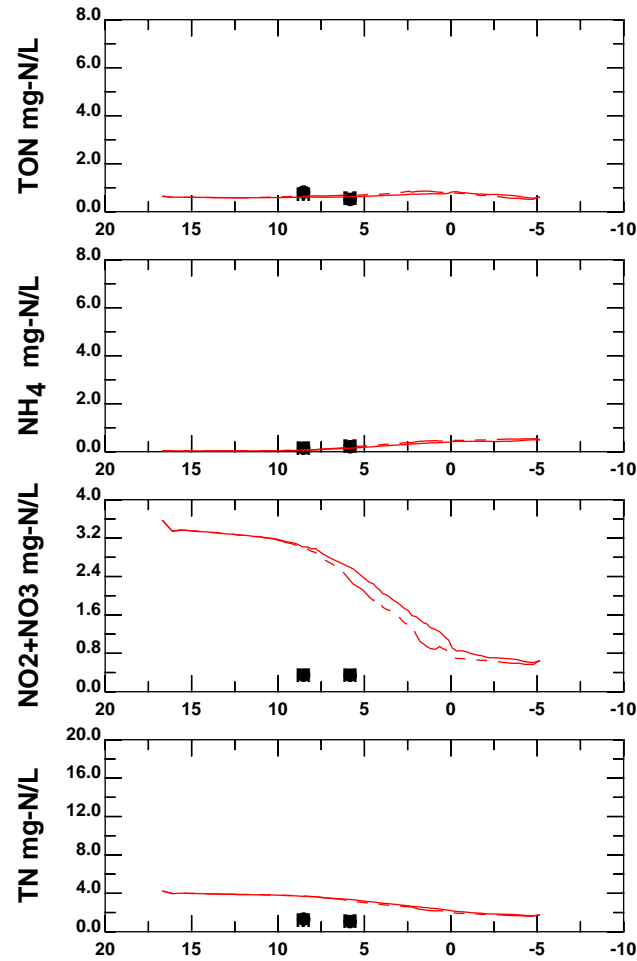
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



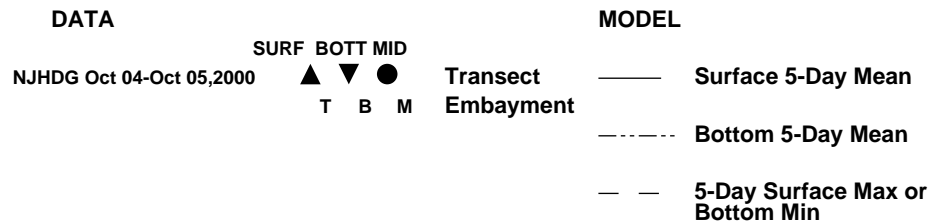
MILE FROM MOUTH PASSAIC RIVER

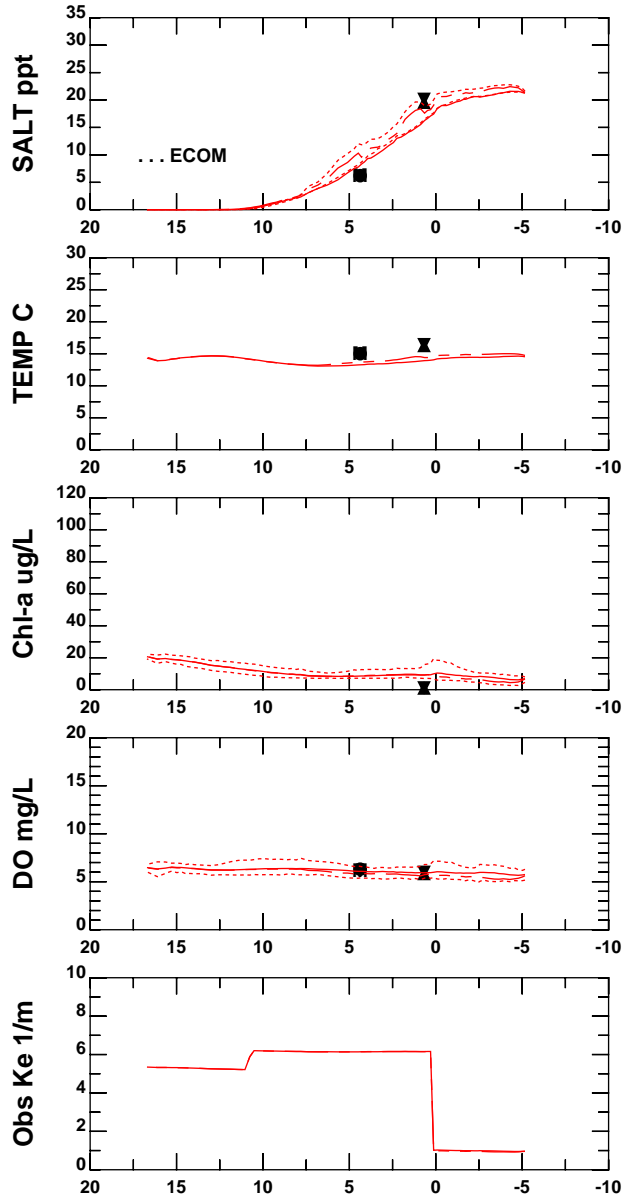
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



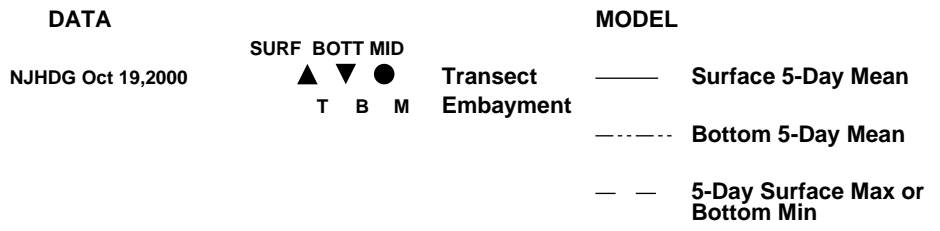
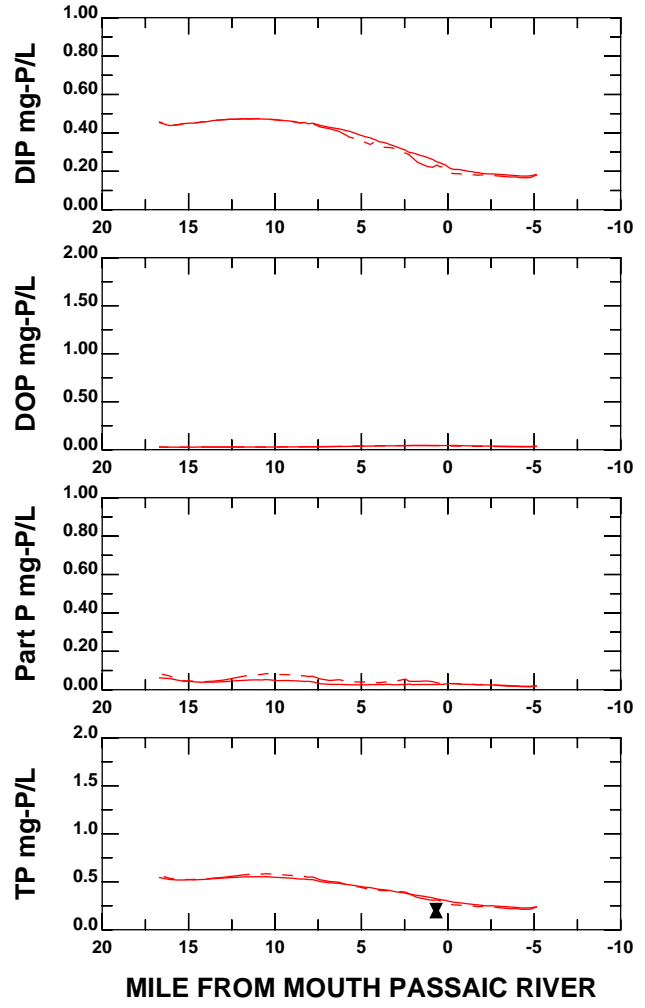
MILE FROM MOUTH PASSAIC RIVER



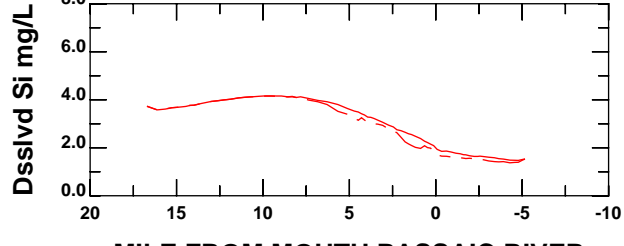
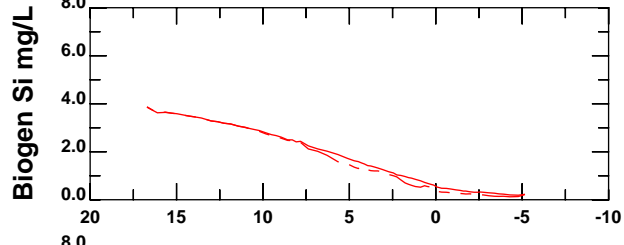
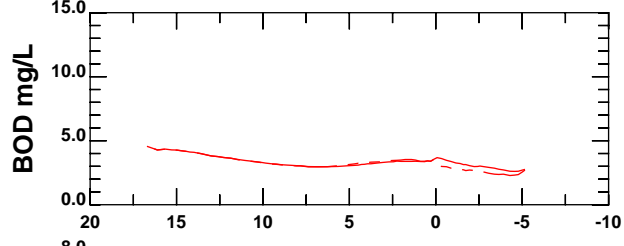
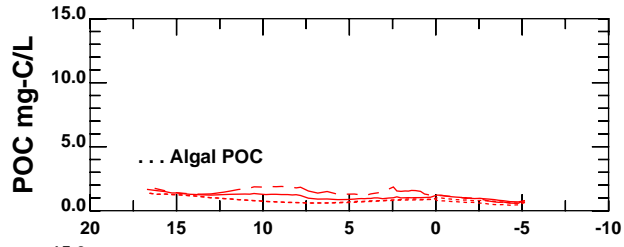
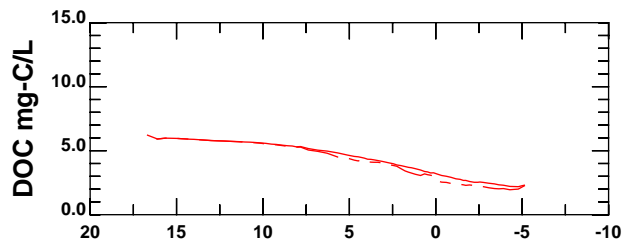


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



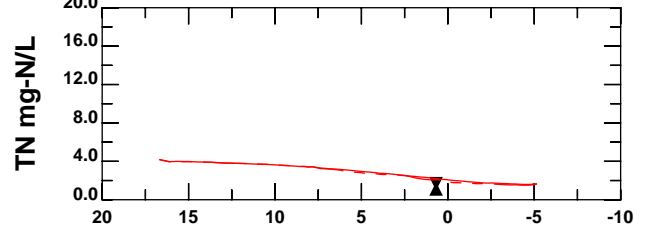
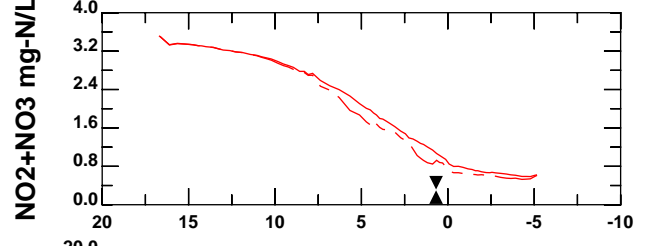
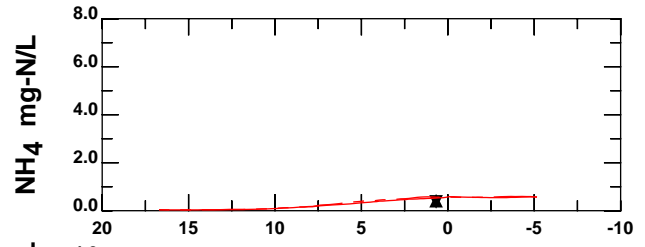
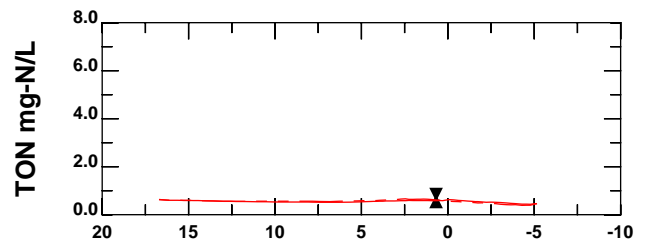




MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0001

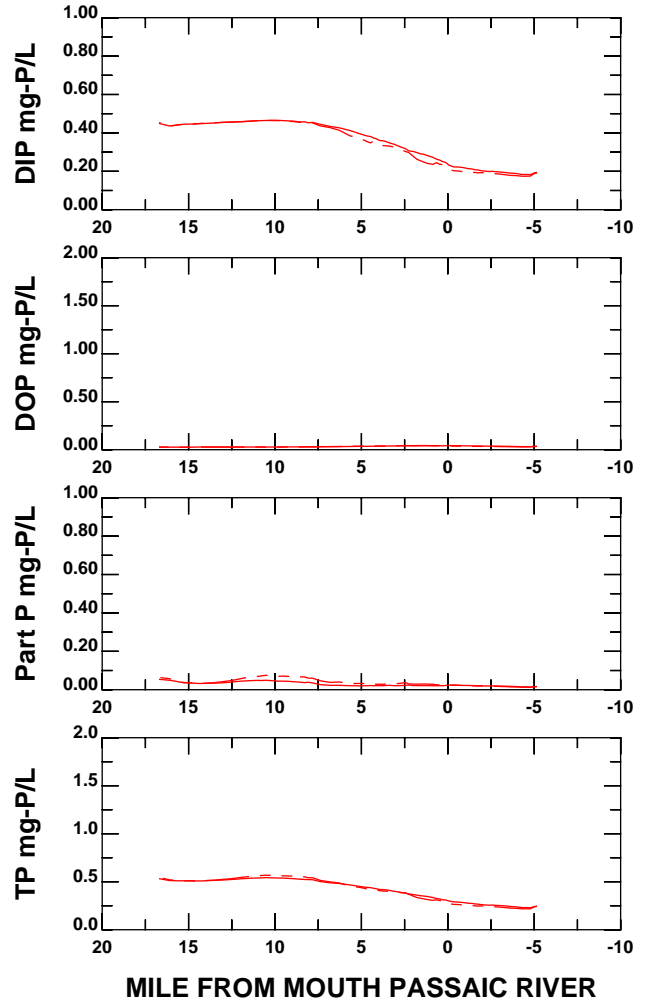
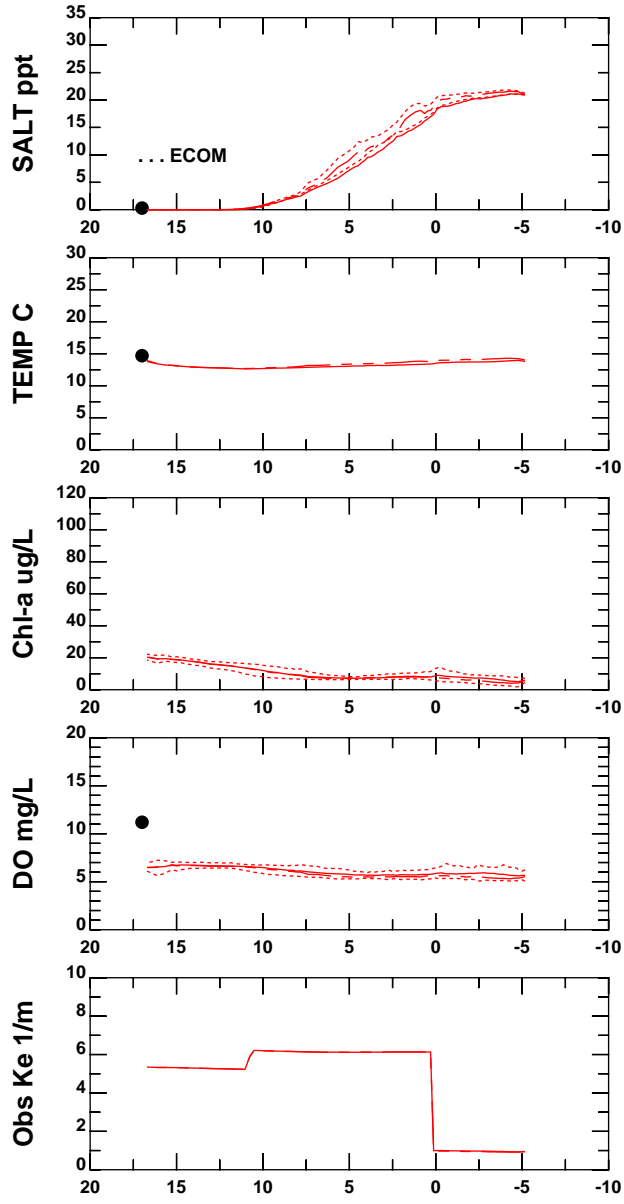


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Oct 19,2000

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



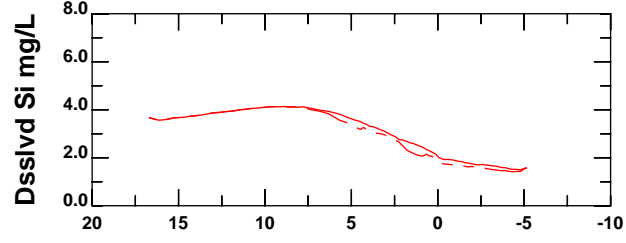
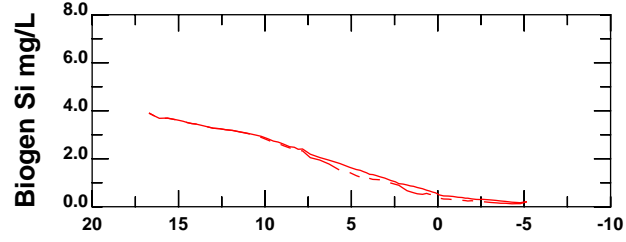
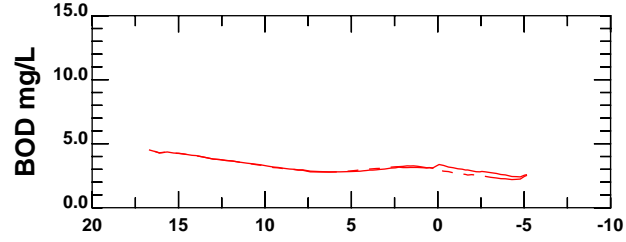
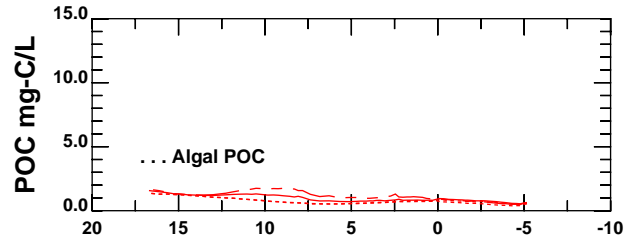
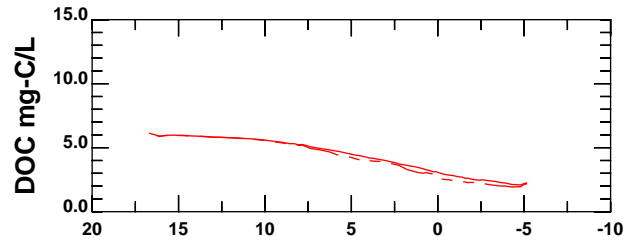
**DATA**  
NJHDG Oct 24,2000

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

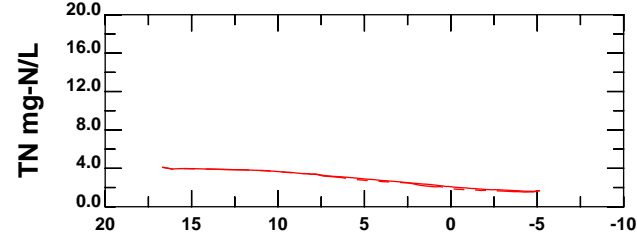
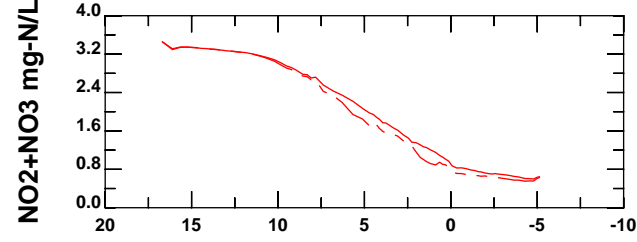
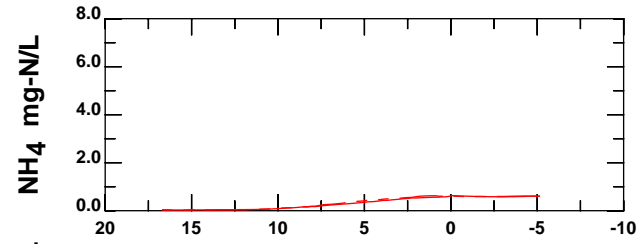
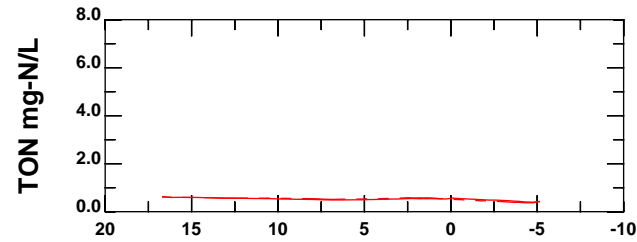
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Oct 24,2000

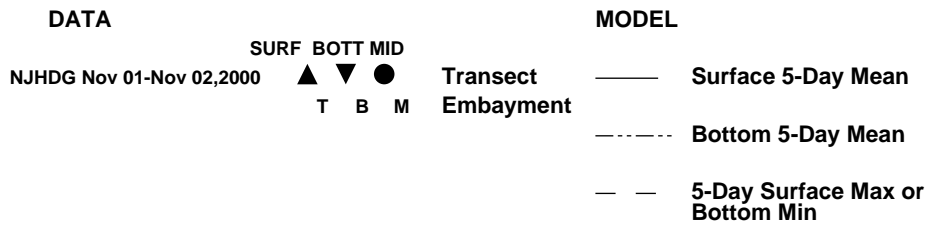
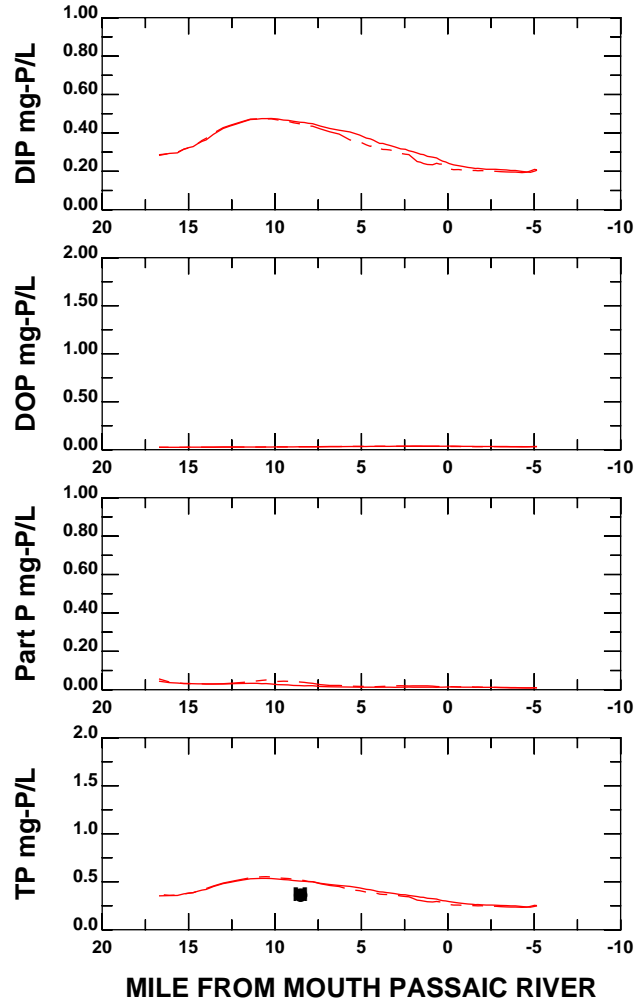
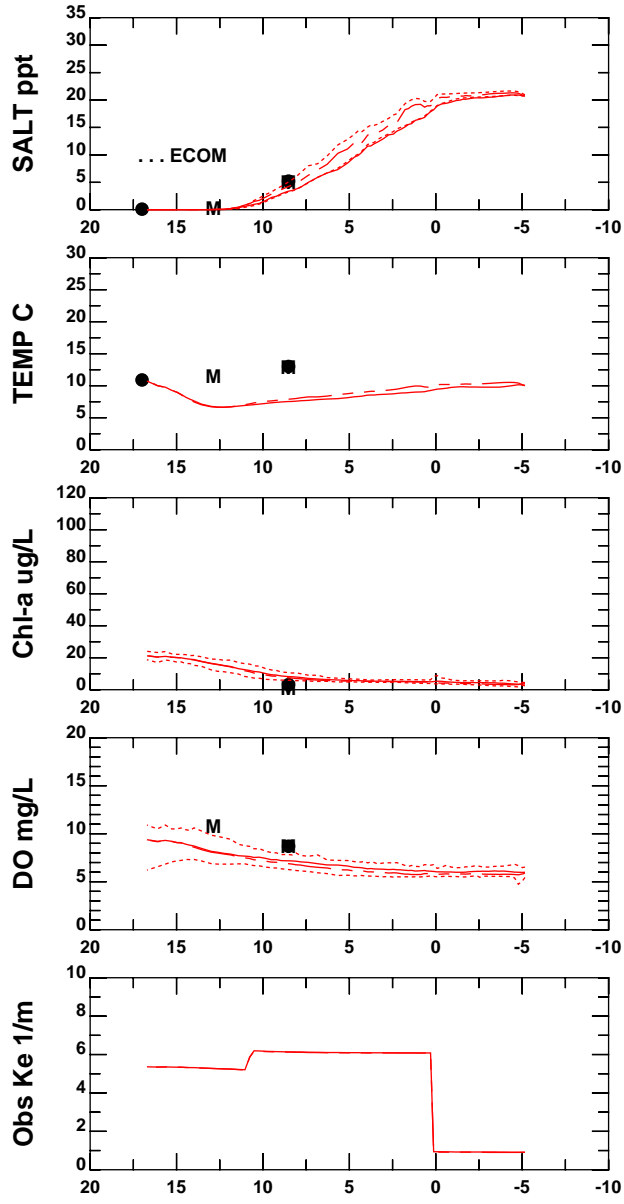
SURF BOTT MID

▲ ▼ ●  
T B M

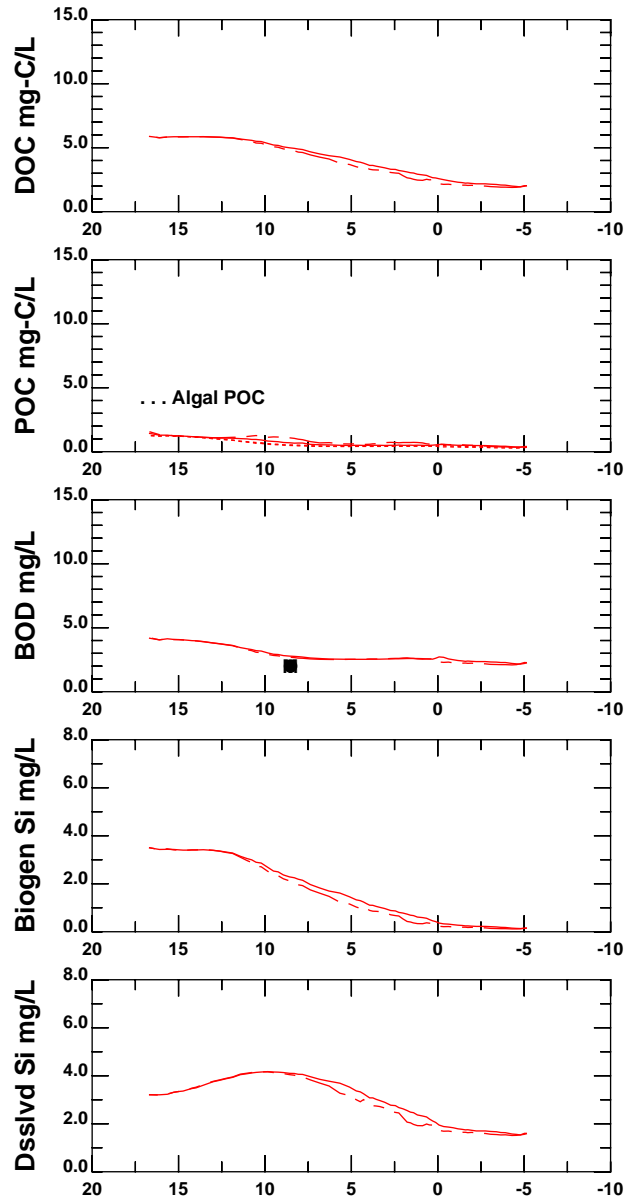
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



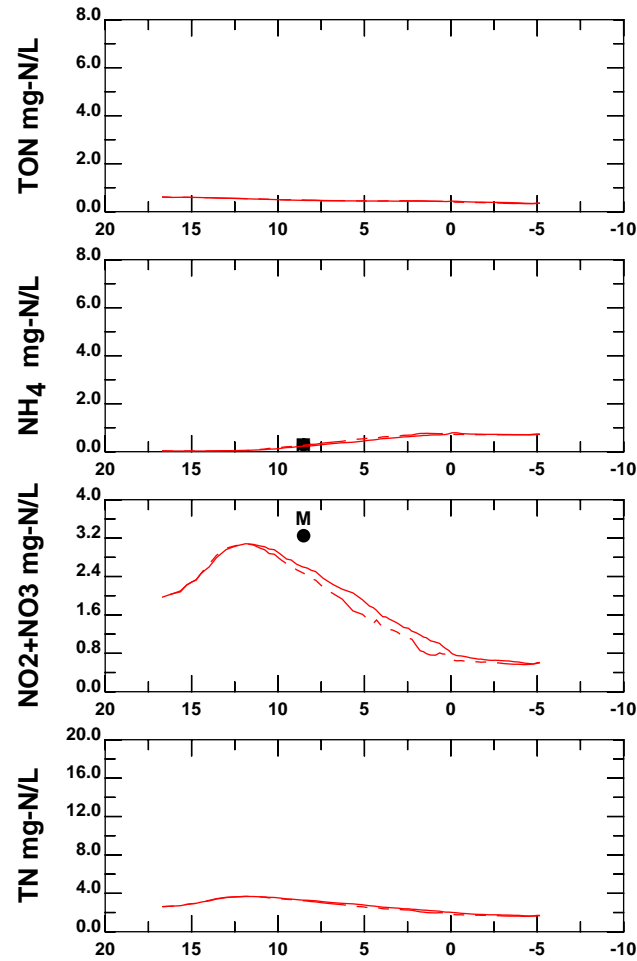
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



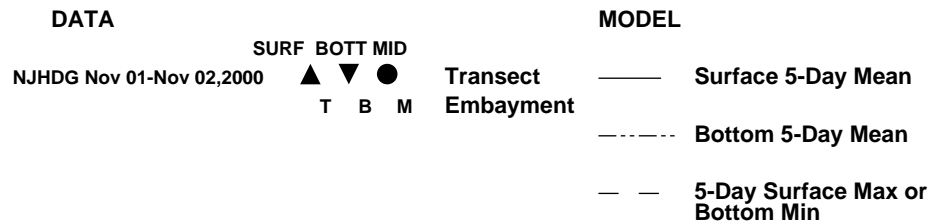
MILE FROM MOUTH PASSAIC RIVER

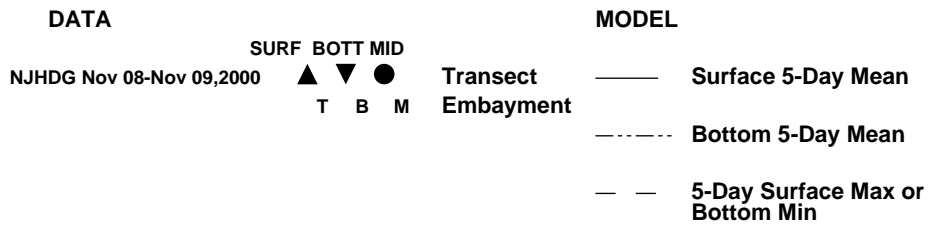
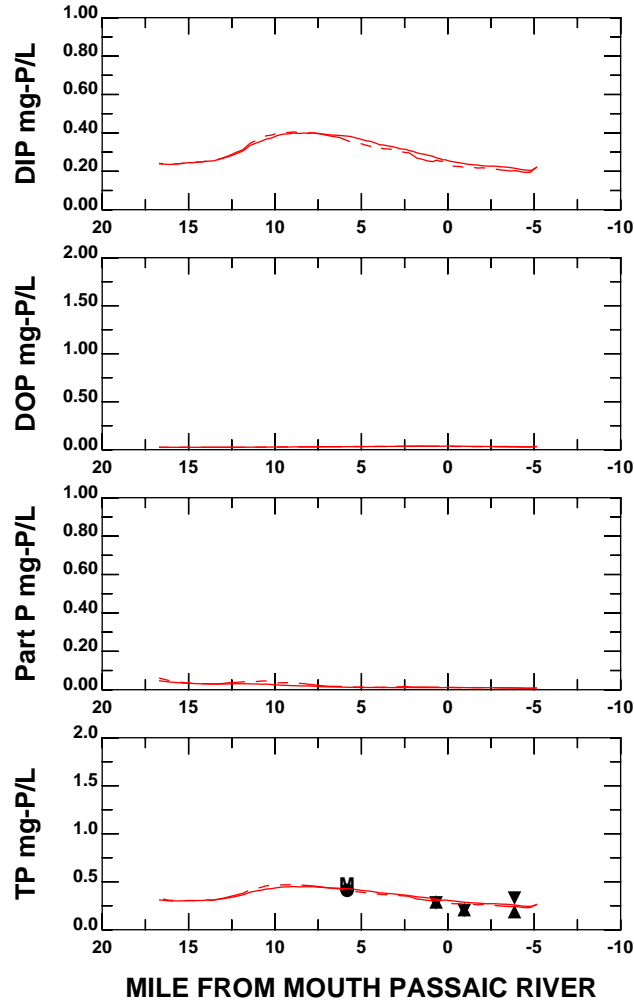
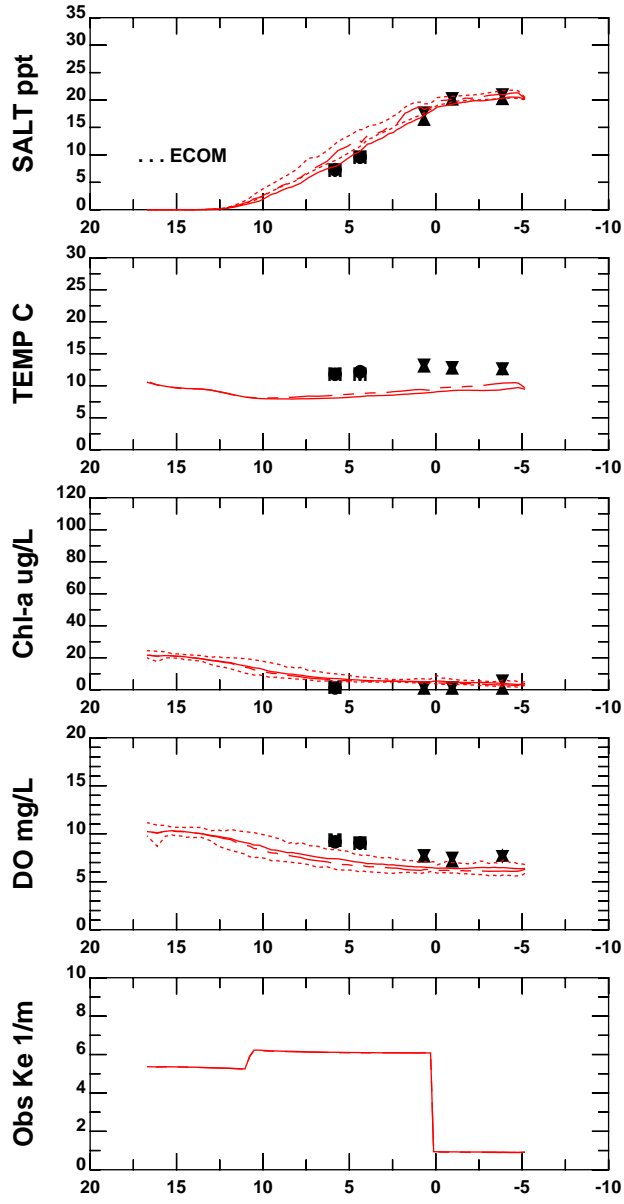
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

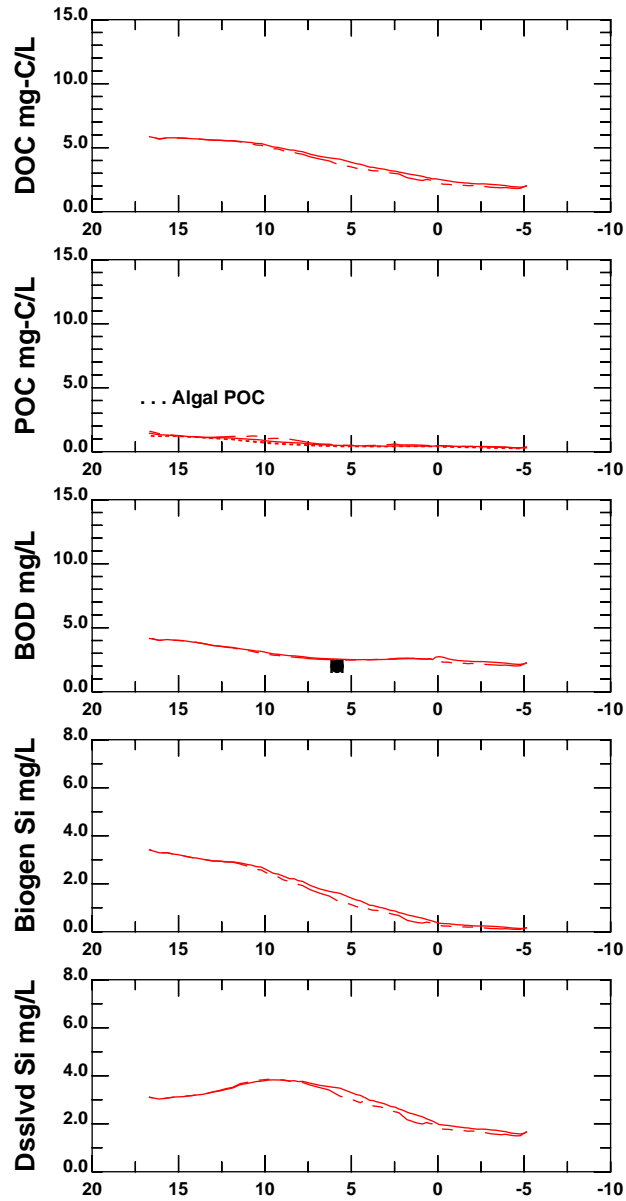


MILE FROM MOUTH PASSAIC RIVER





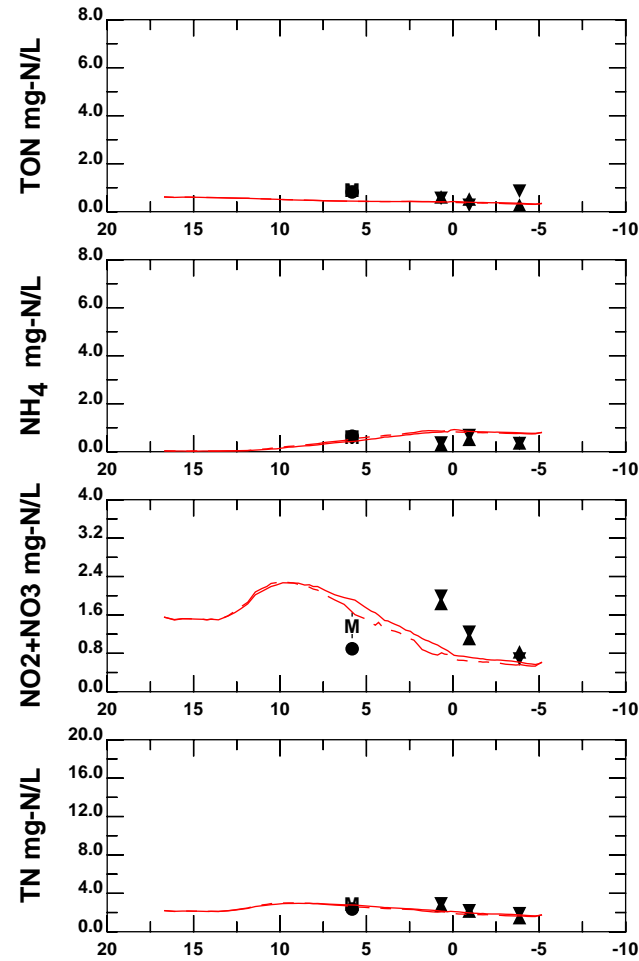
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



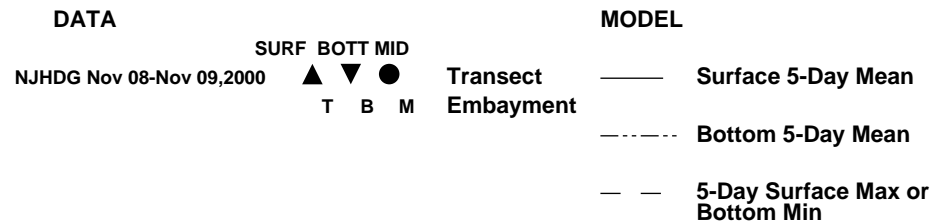
MILE FROM MOUTH PASSAIC RIVER

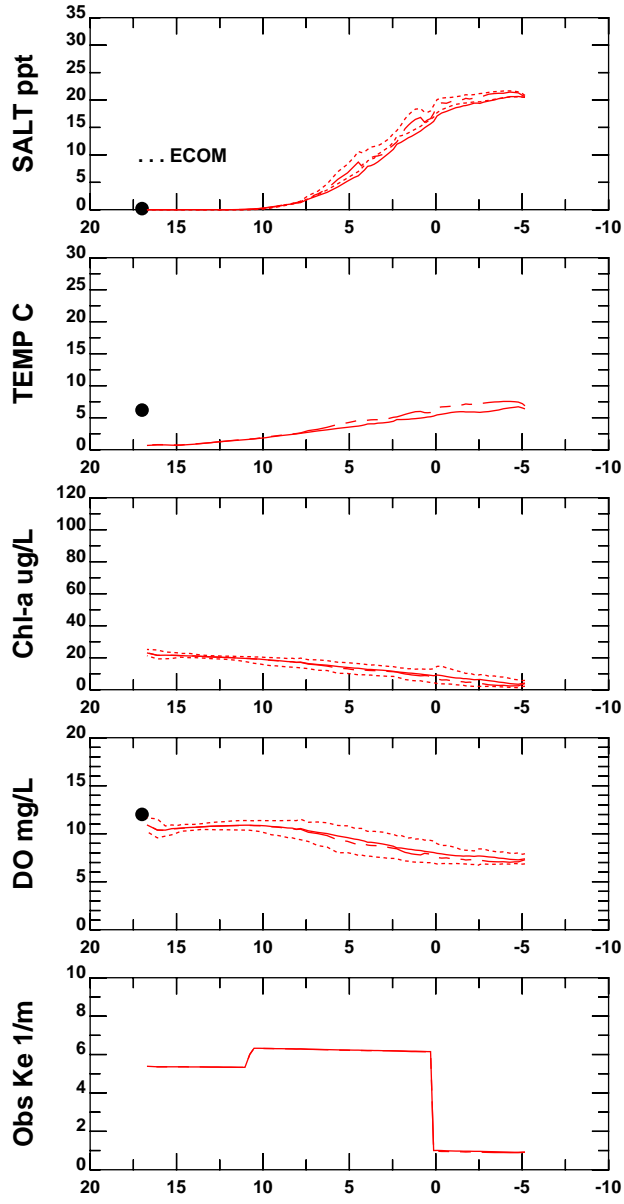
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

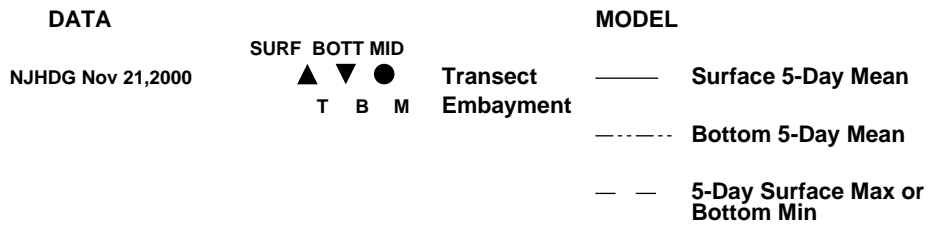
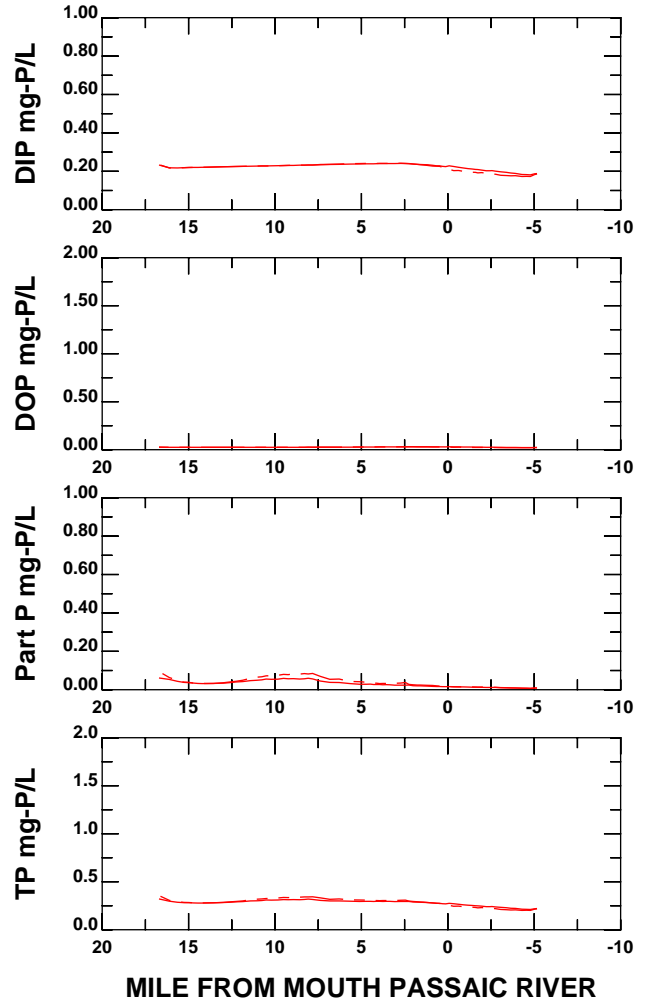


MILE FROM MOUTH PASSAIC RIVER

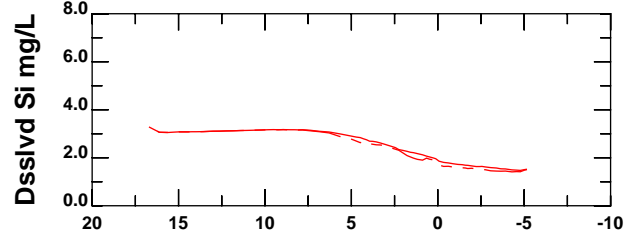
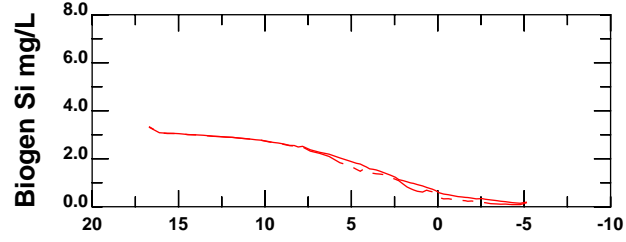
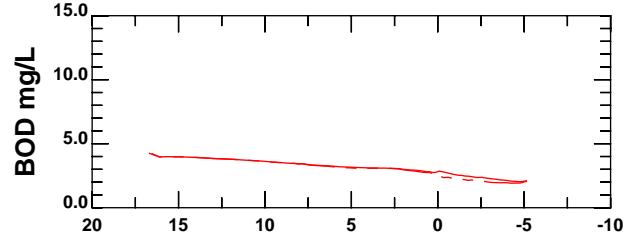
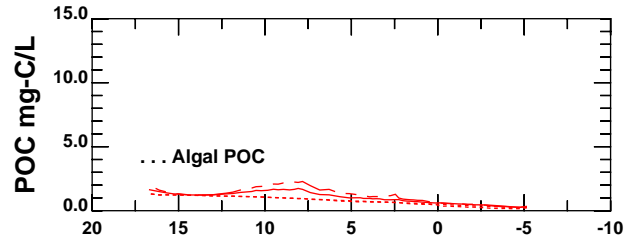
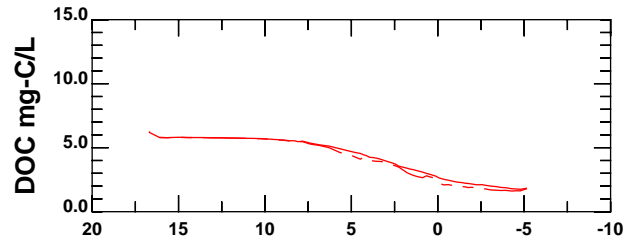




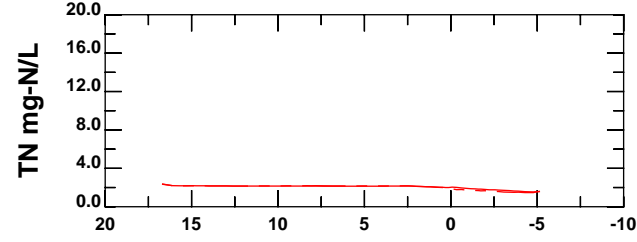
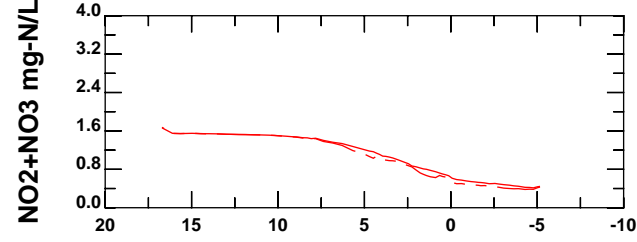
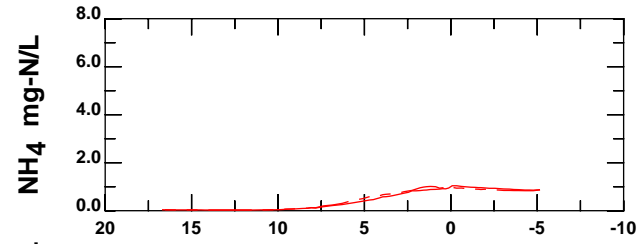
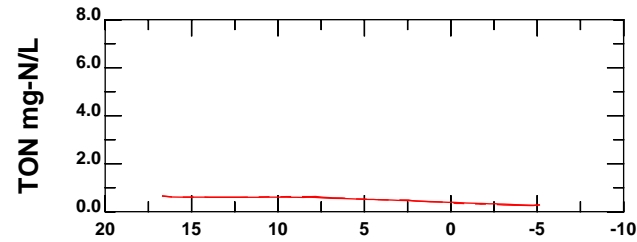
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001







MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Nov 21,2000

SURF BOTT MID

▲ ▼ ●  
T B M

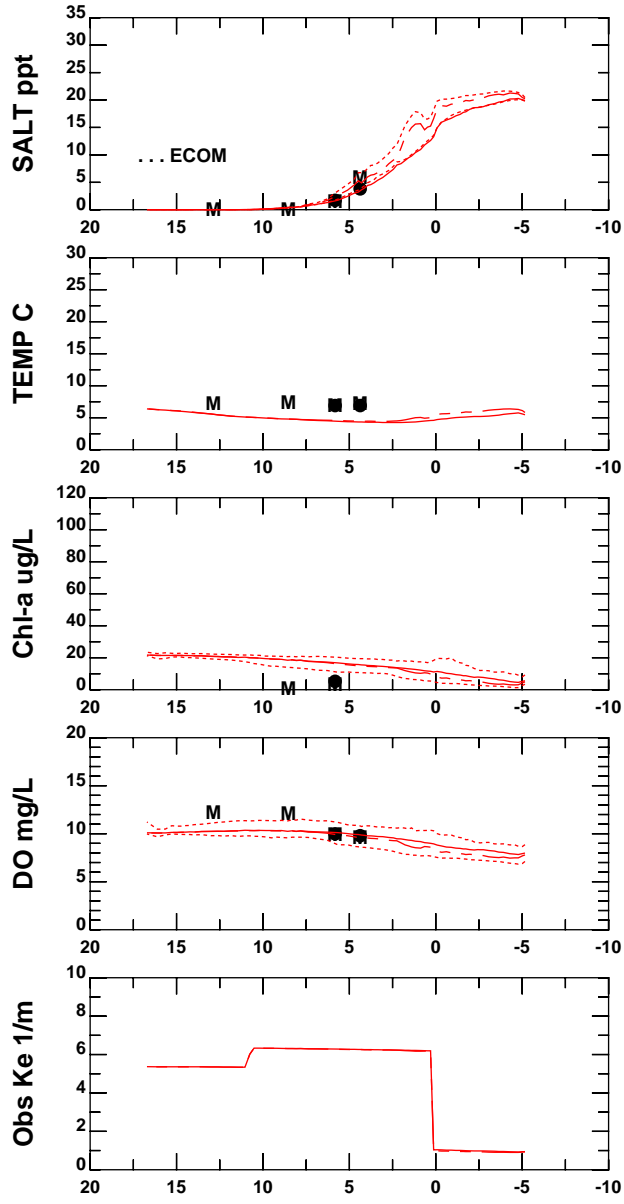
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

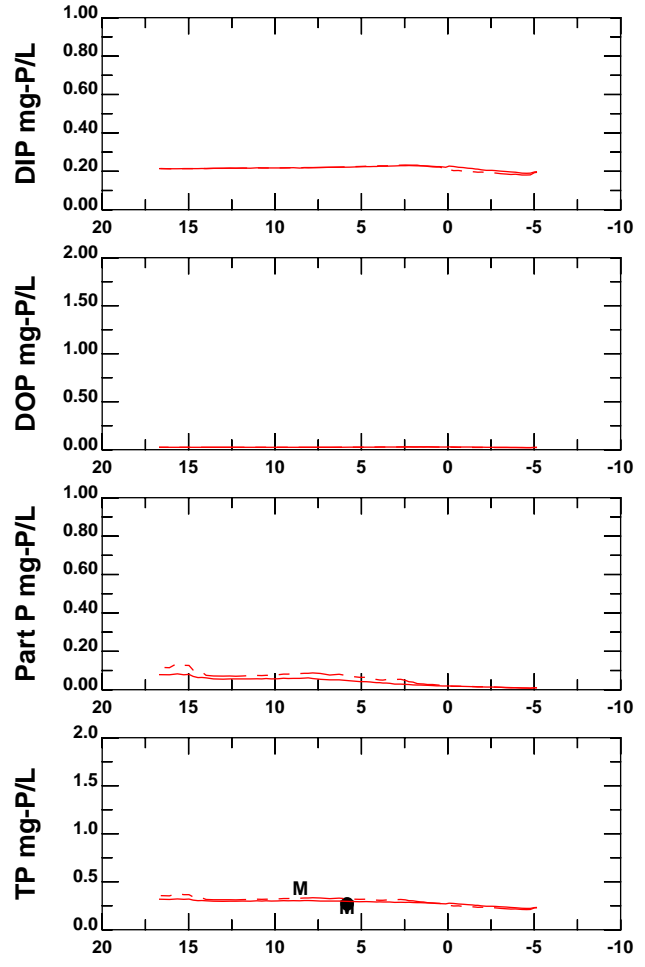
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

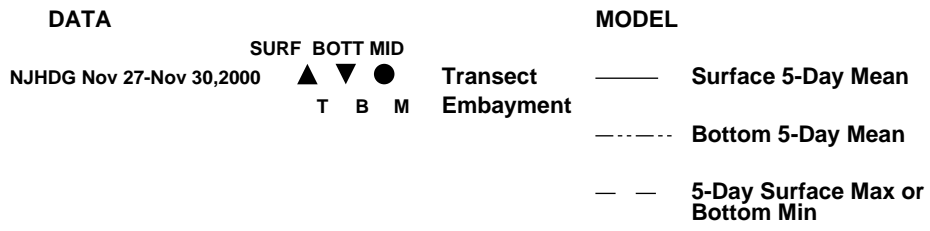


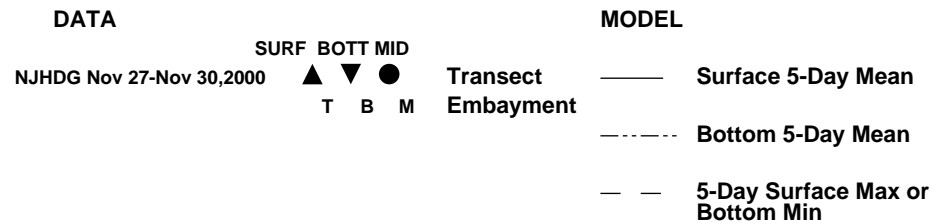
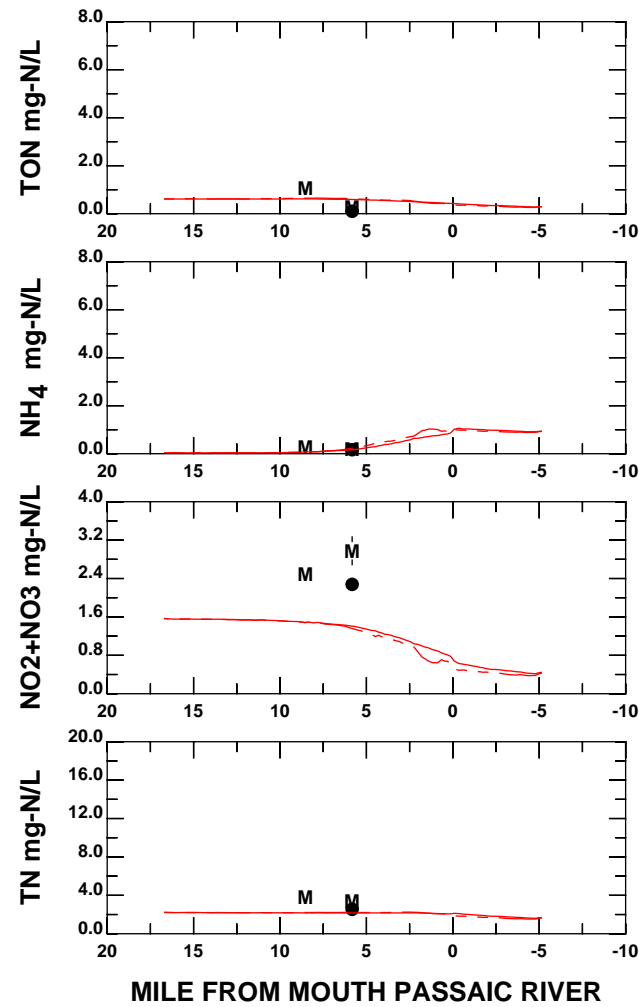
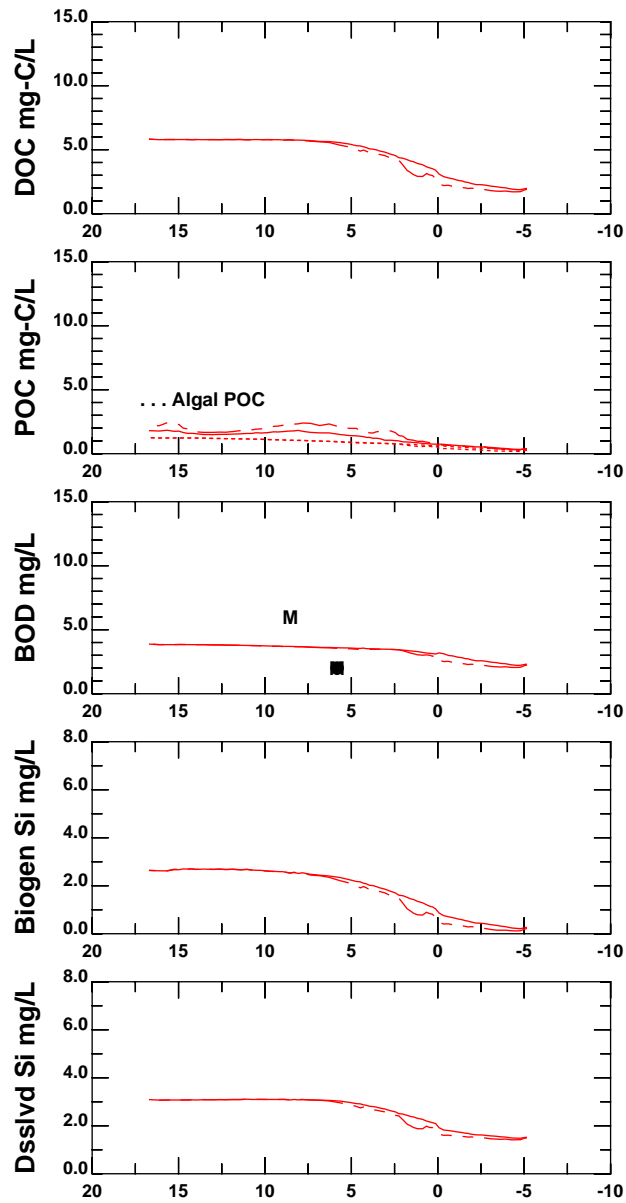
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

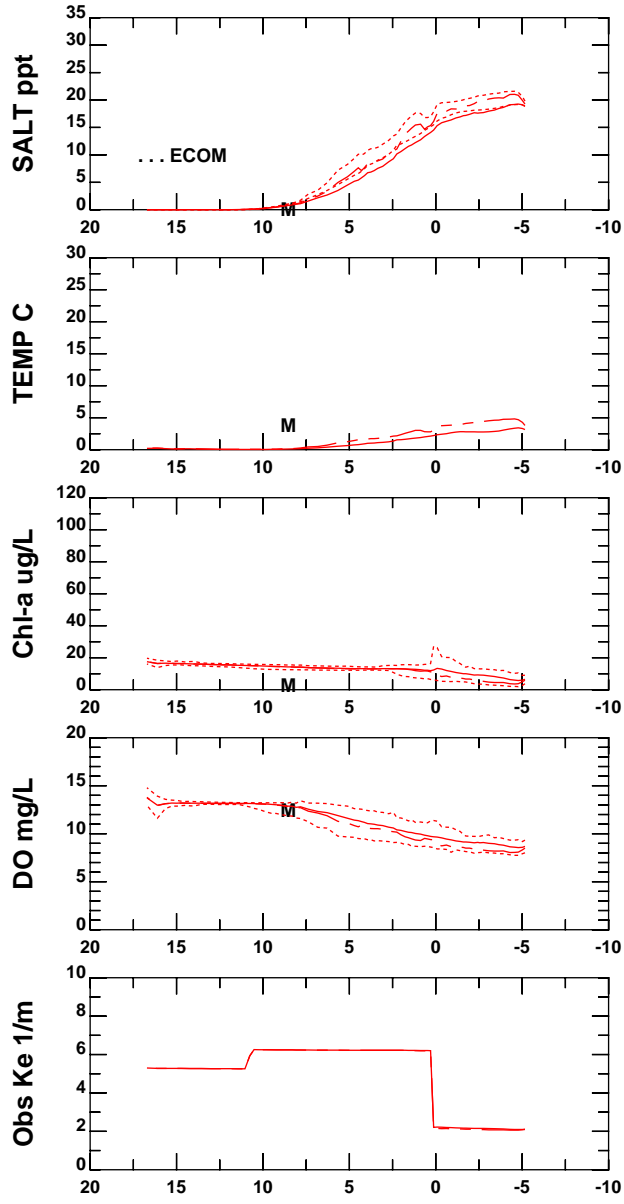


MILE FROM MOUTH PASSAIC RIVER

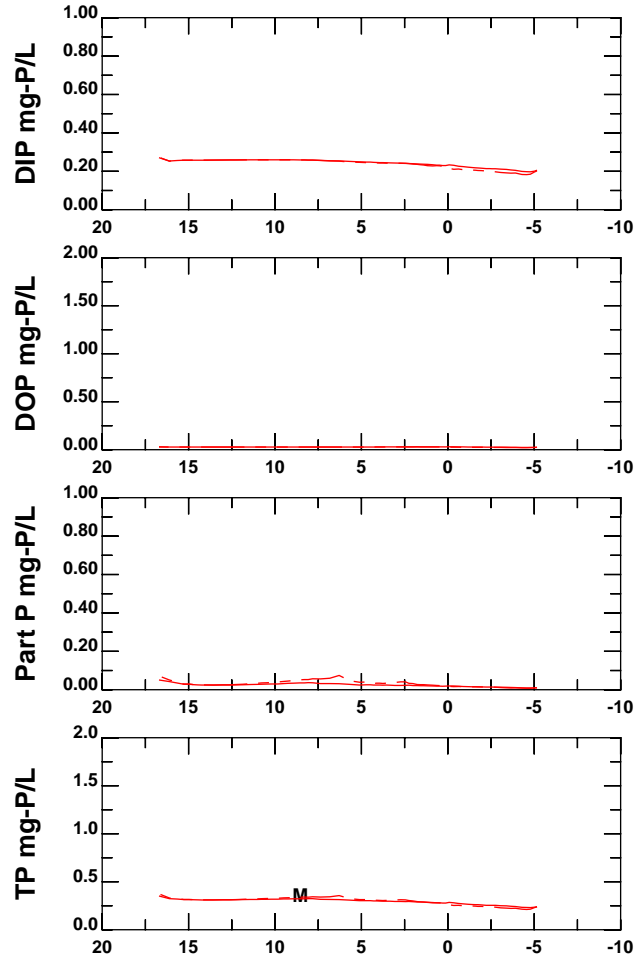




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHGD Dec 06,2000

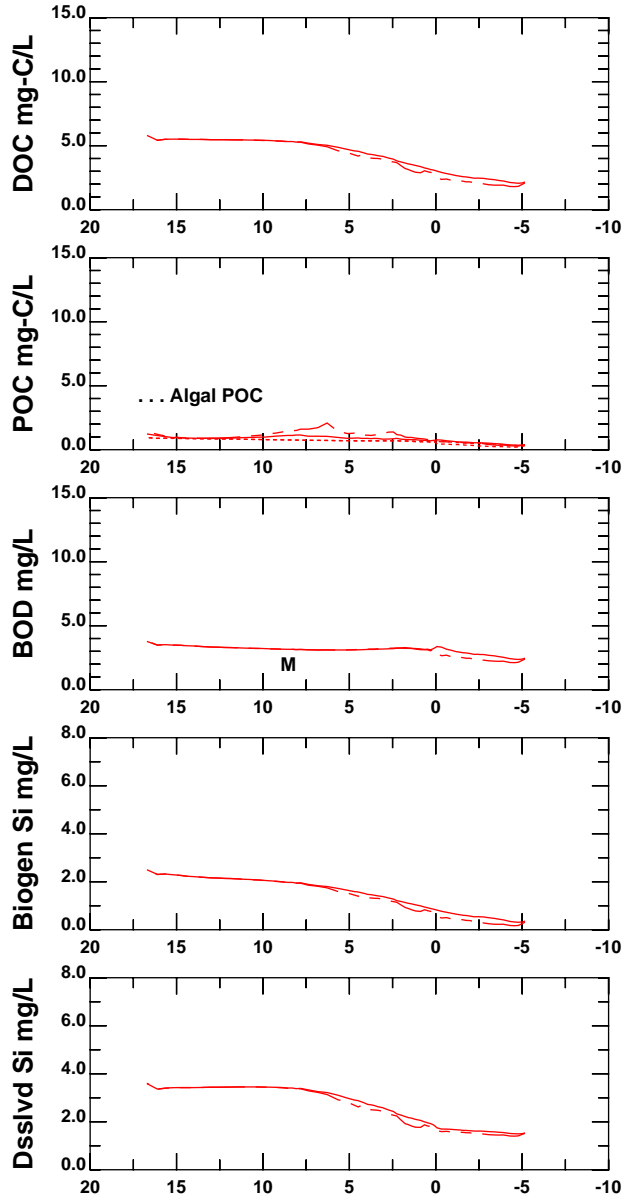
SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

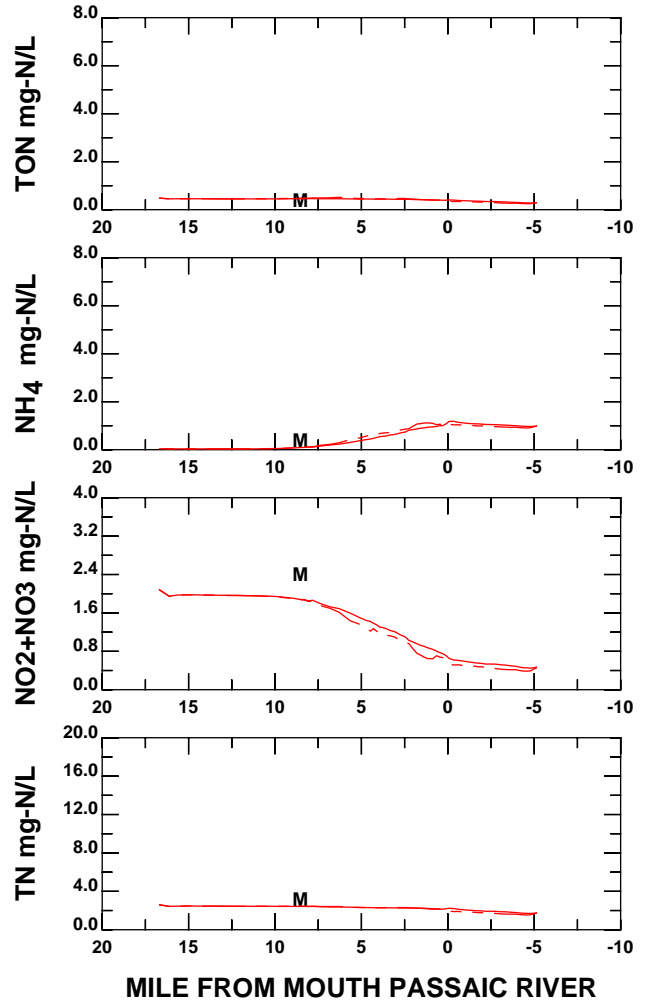
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

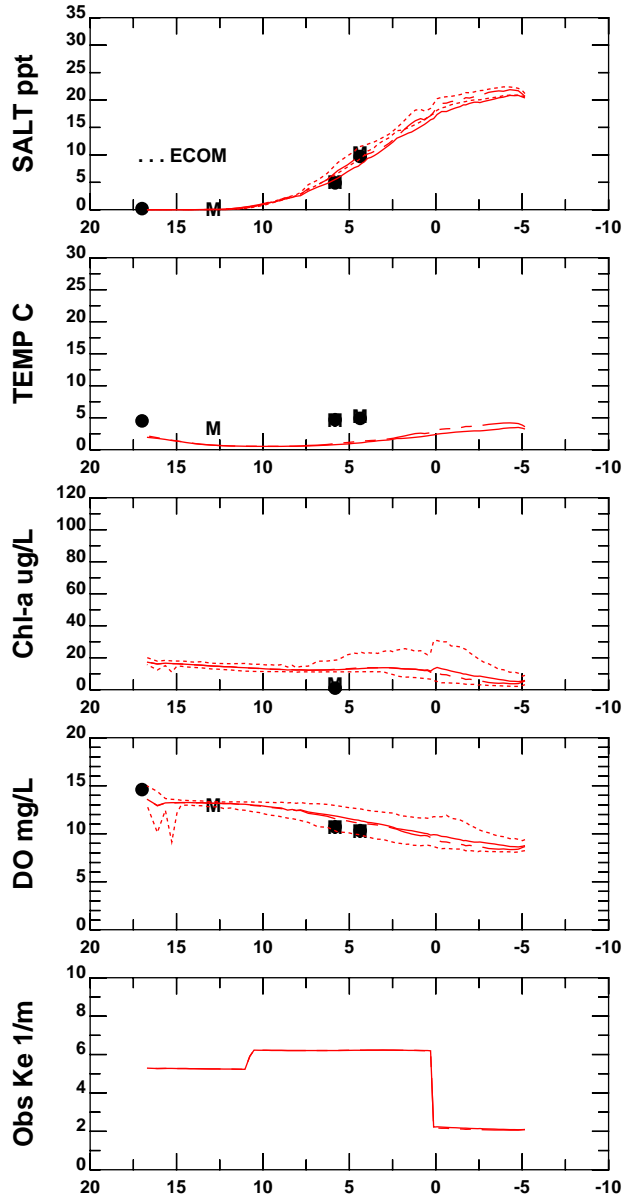


DATA  
NJHDG Dec 06,2000

MODEL

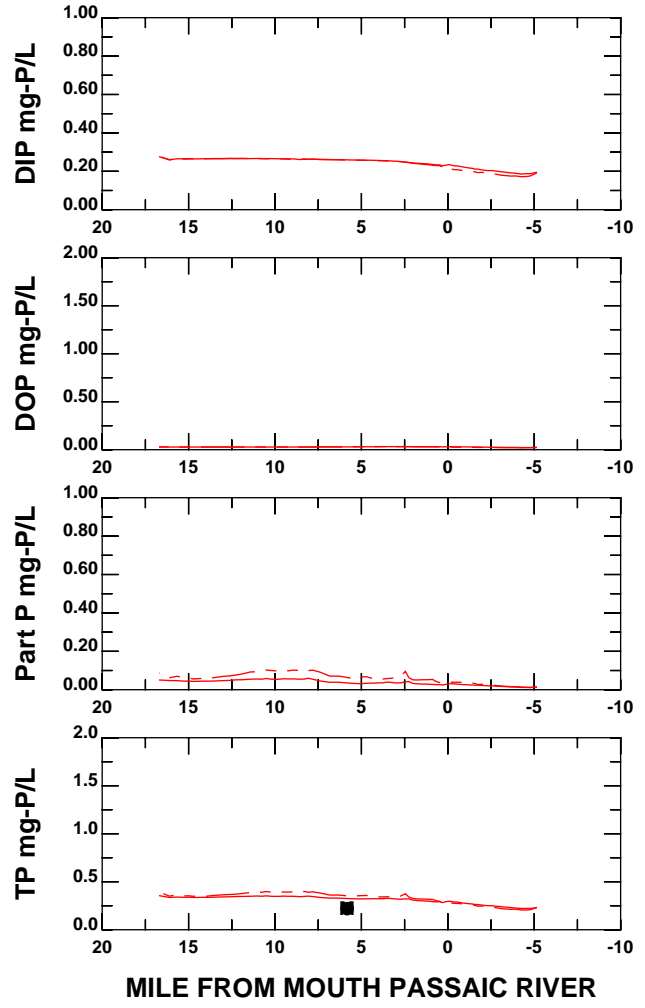
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

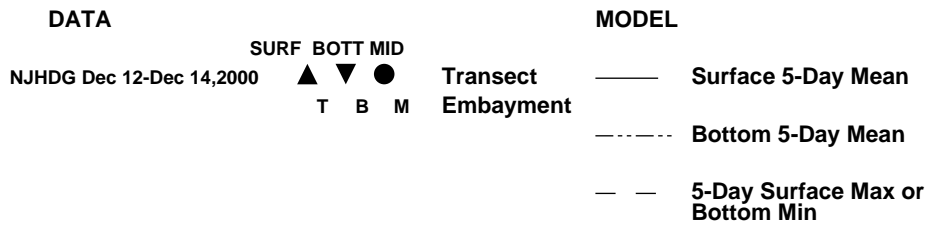


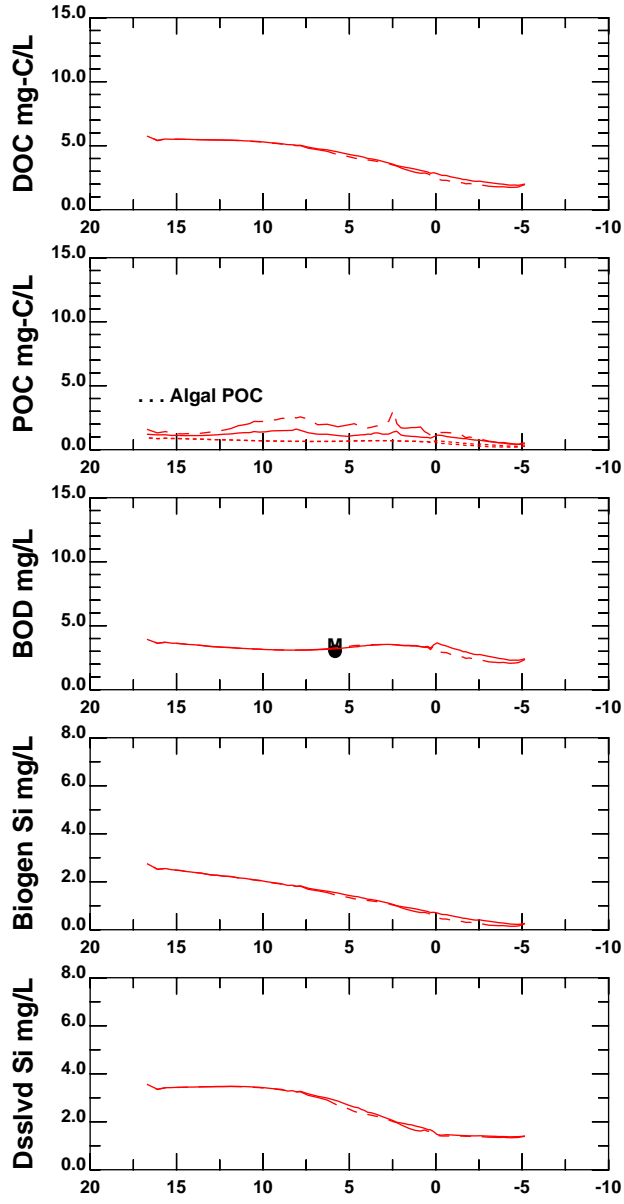
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



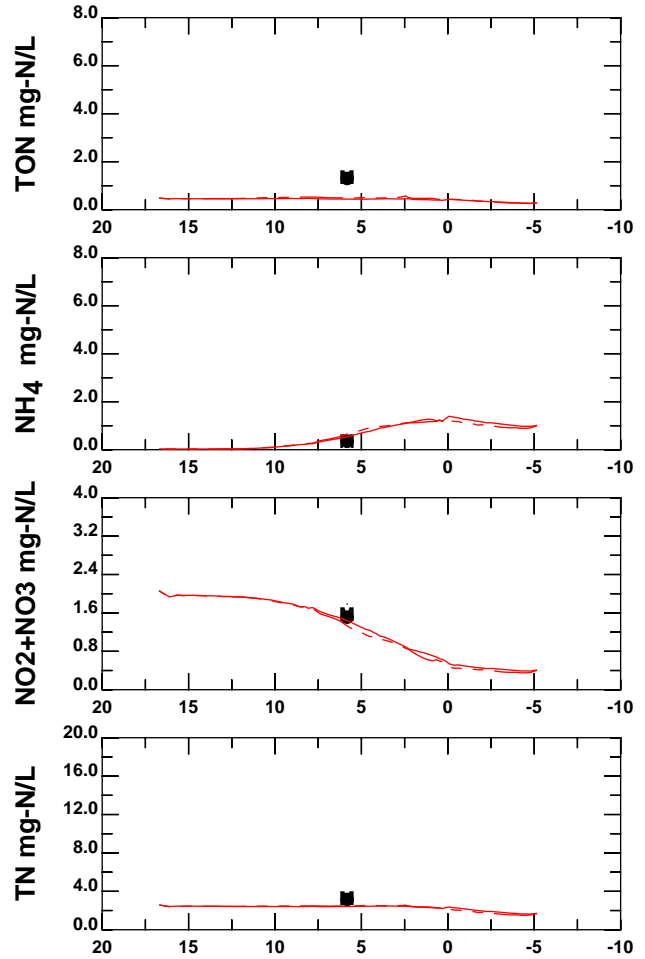
MILE FROM MOUTH PASSAIC RIVER



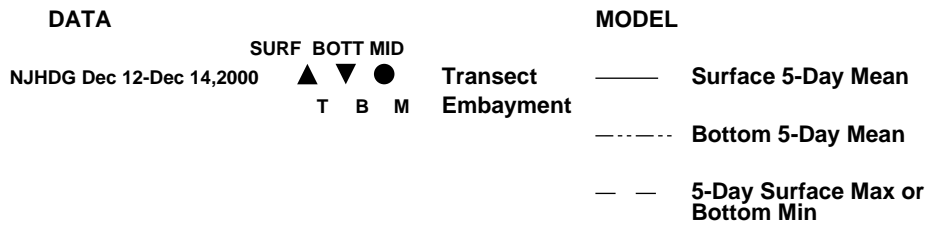


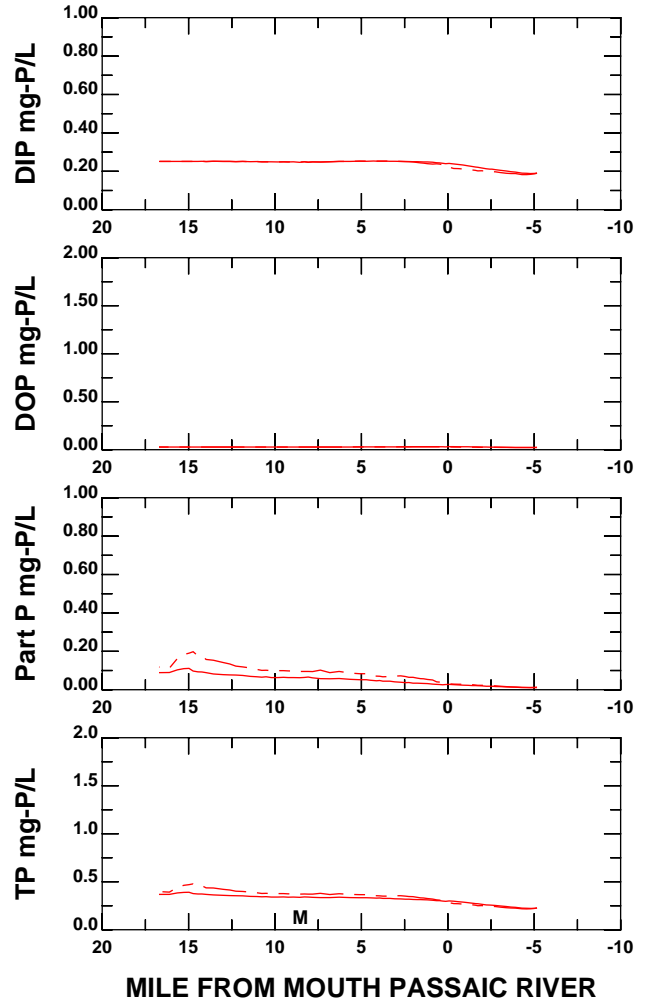
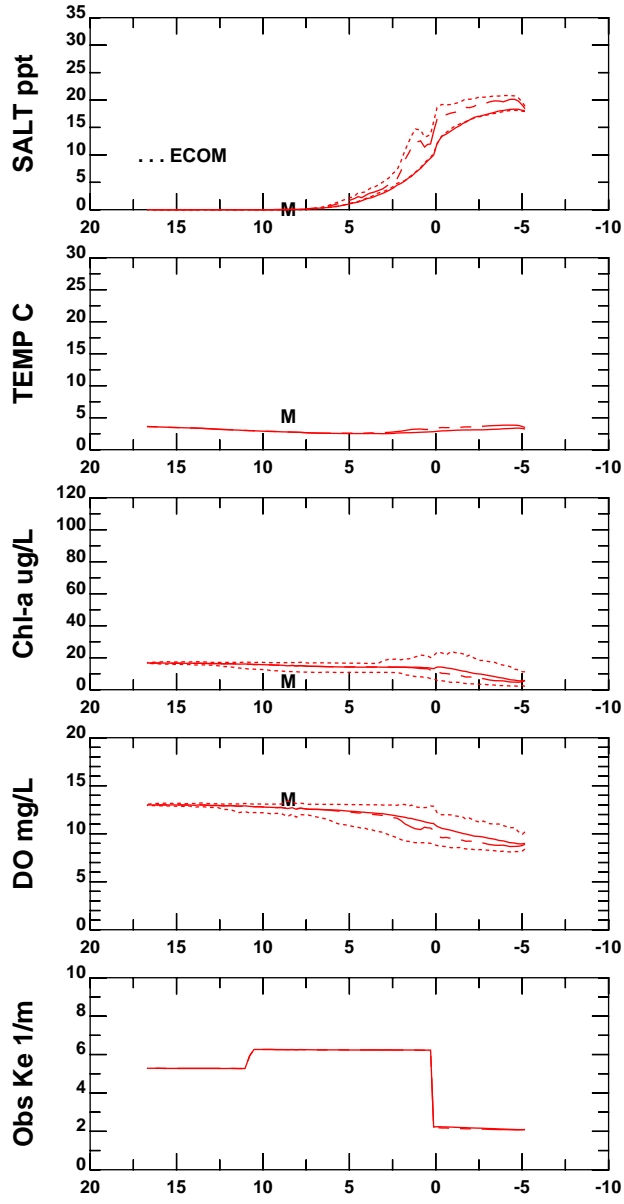
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER





**DATA**  
NJHGD Dec 19,2000

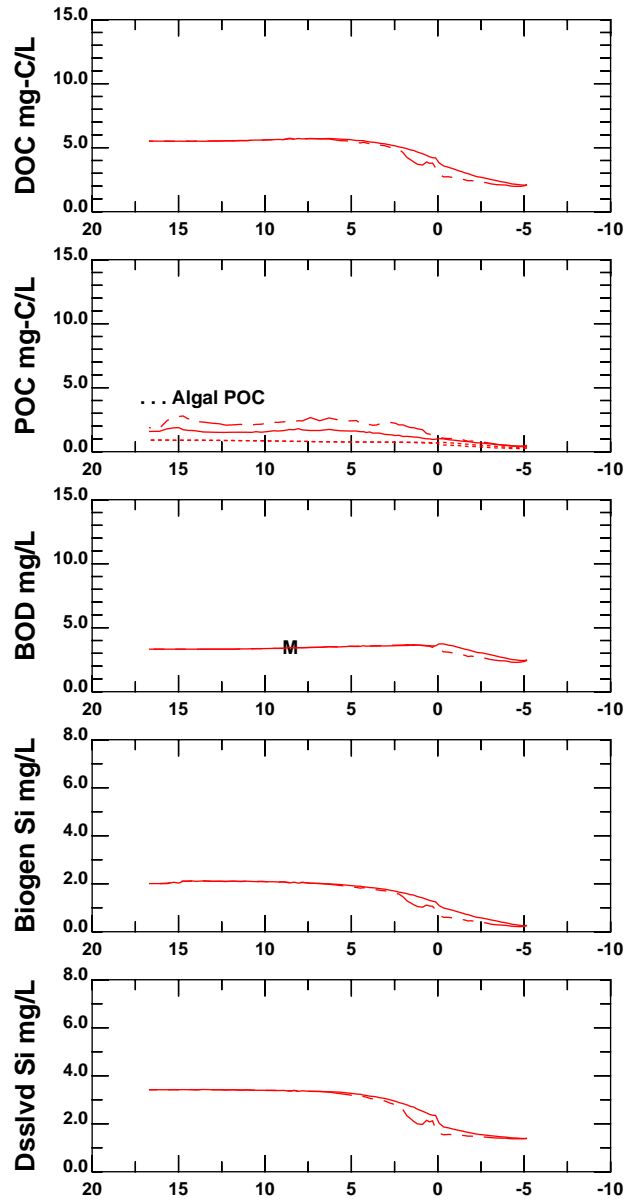
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

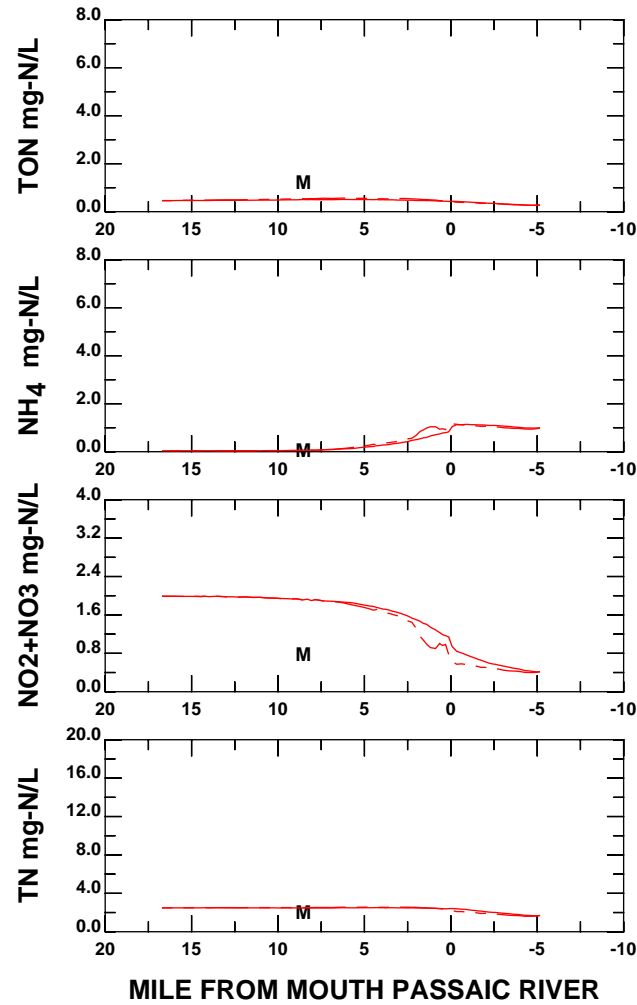




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Dec 19,2000

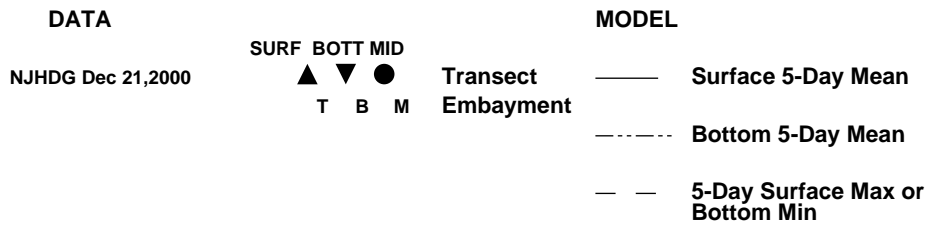
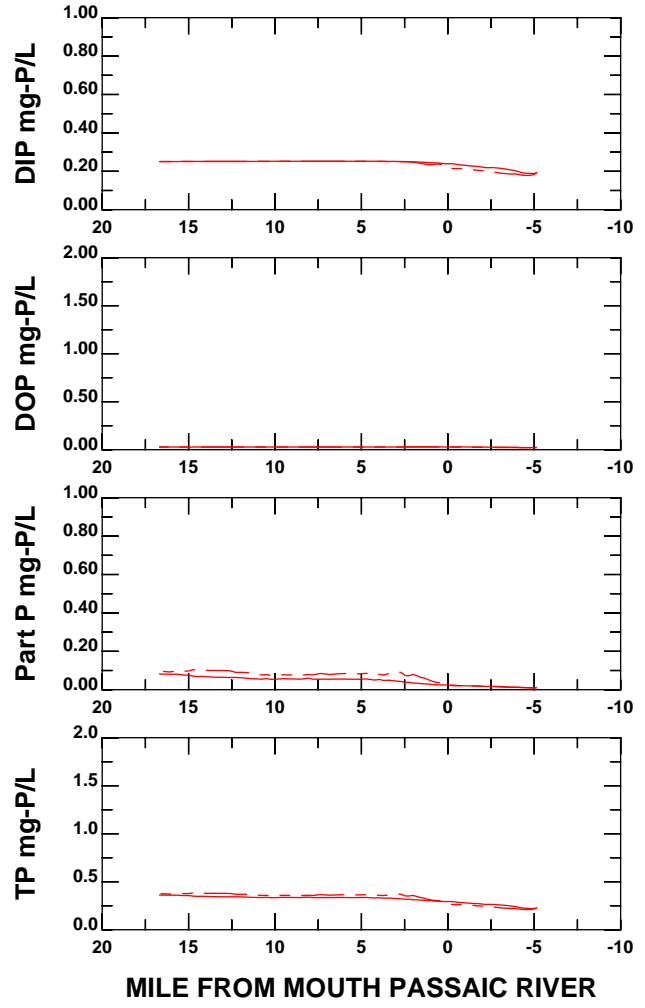
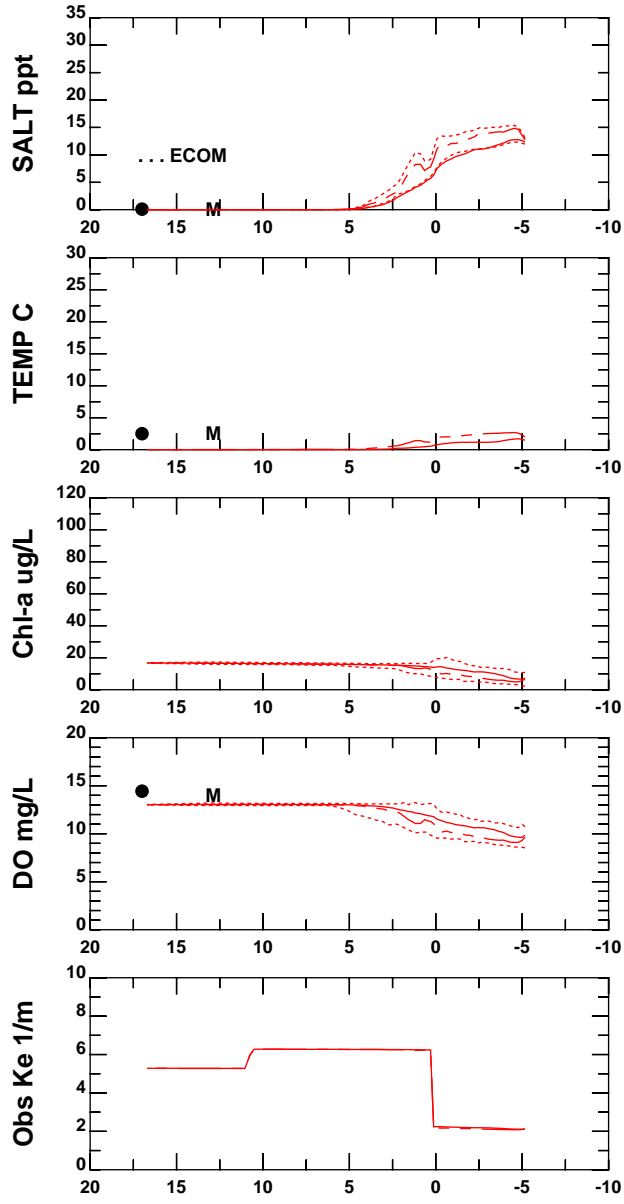
SURF BOTT MID

▲ ▼ ●  
T B M

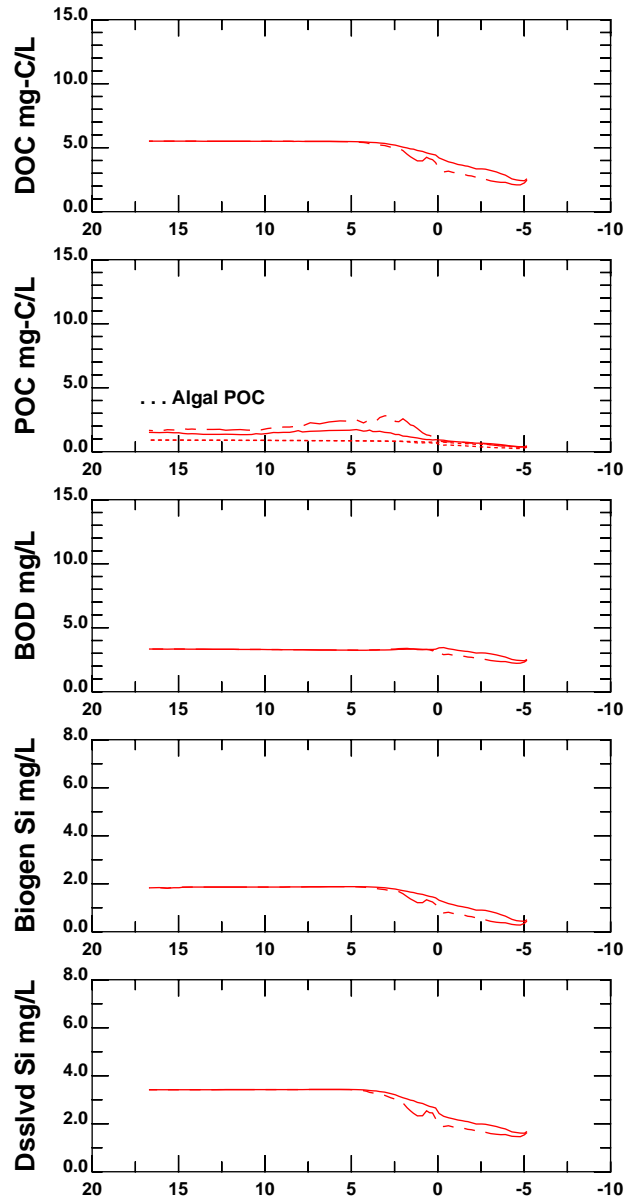
Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



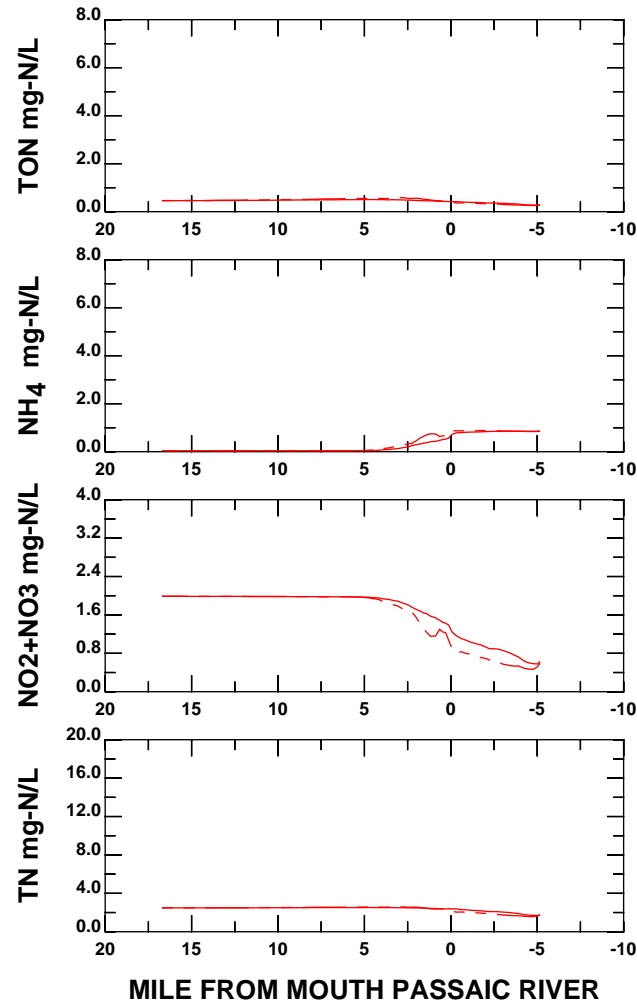
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Dec 21,2000

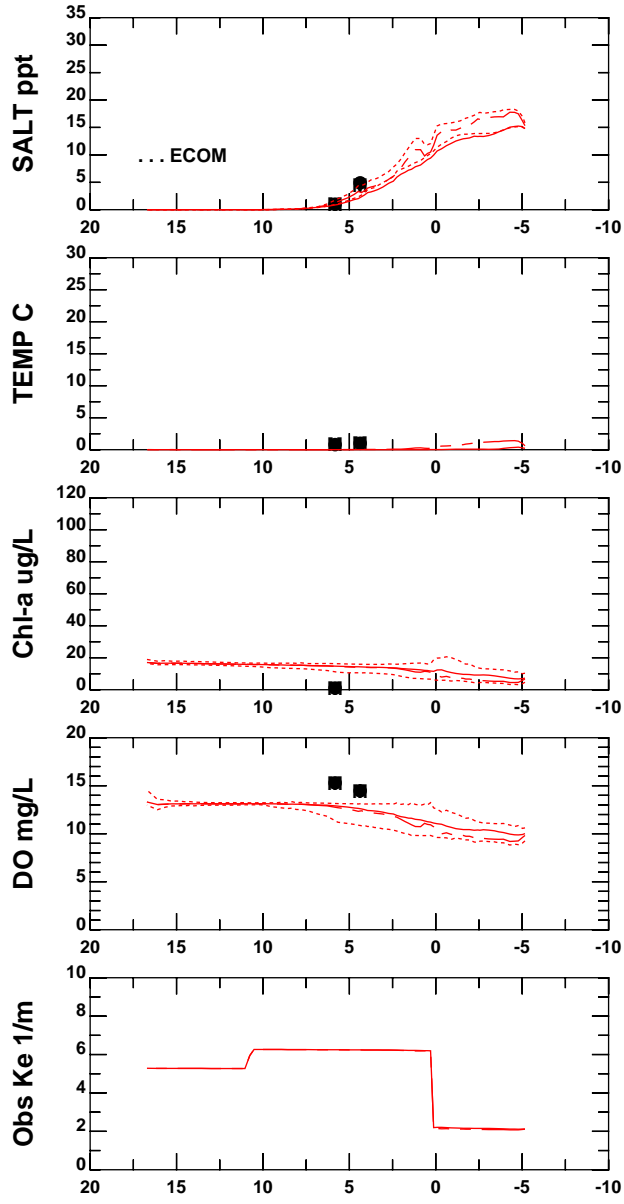
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

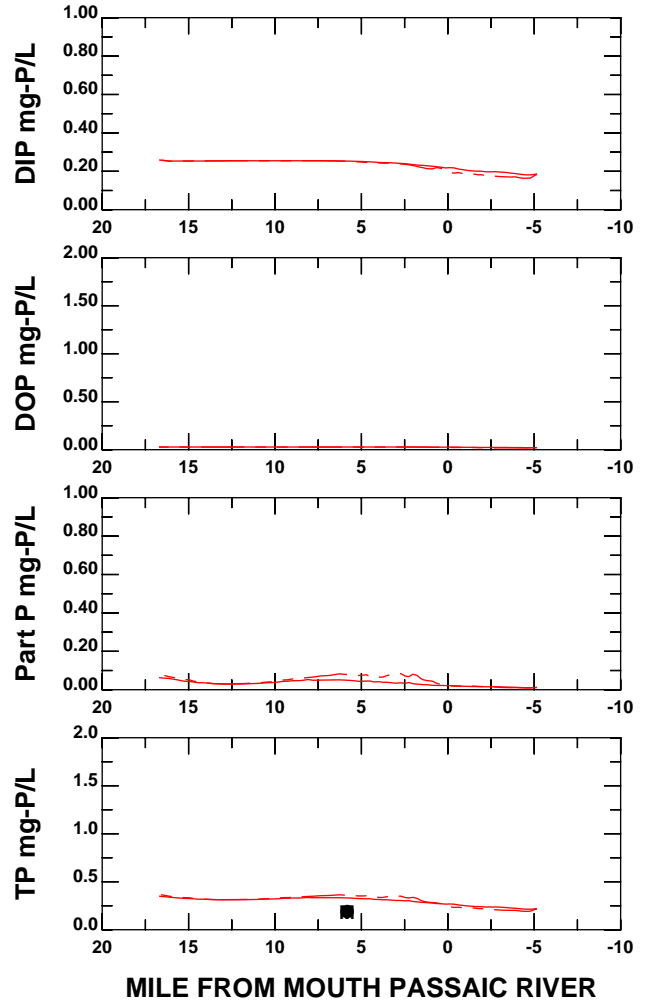
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

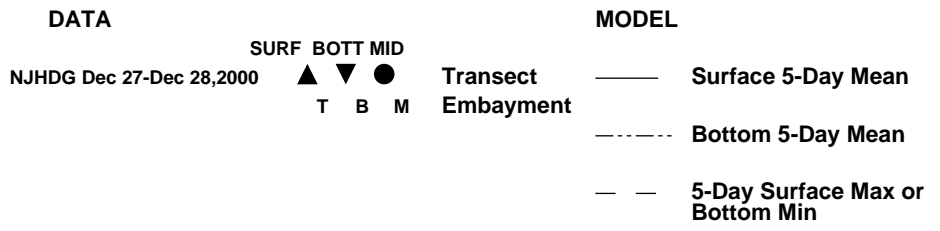


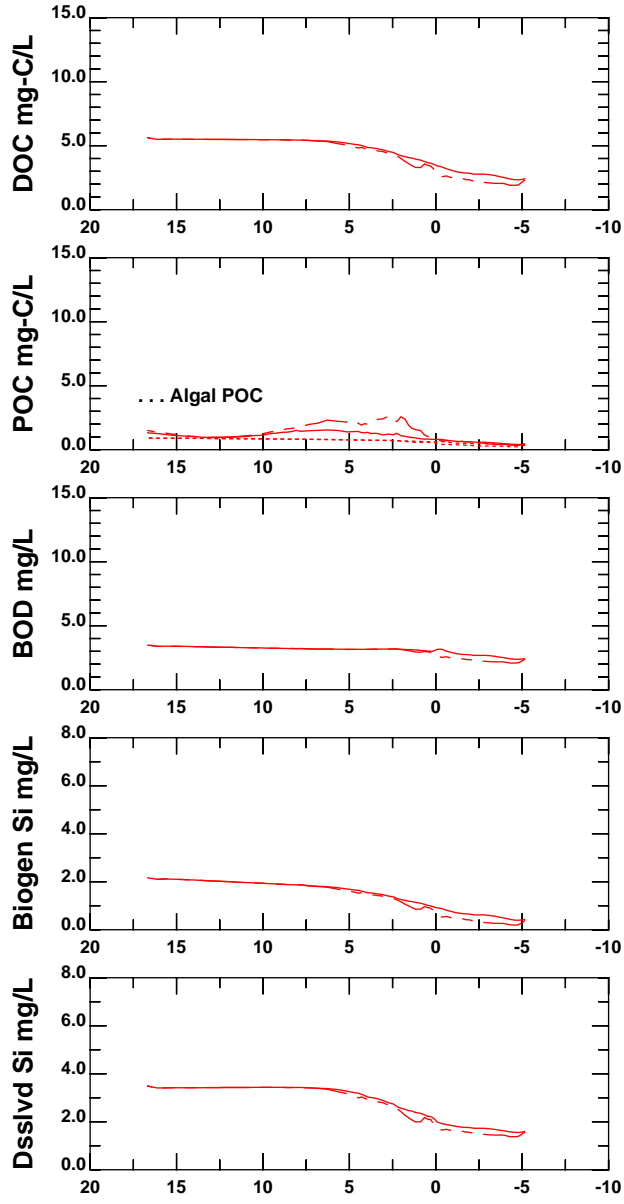
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



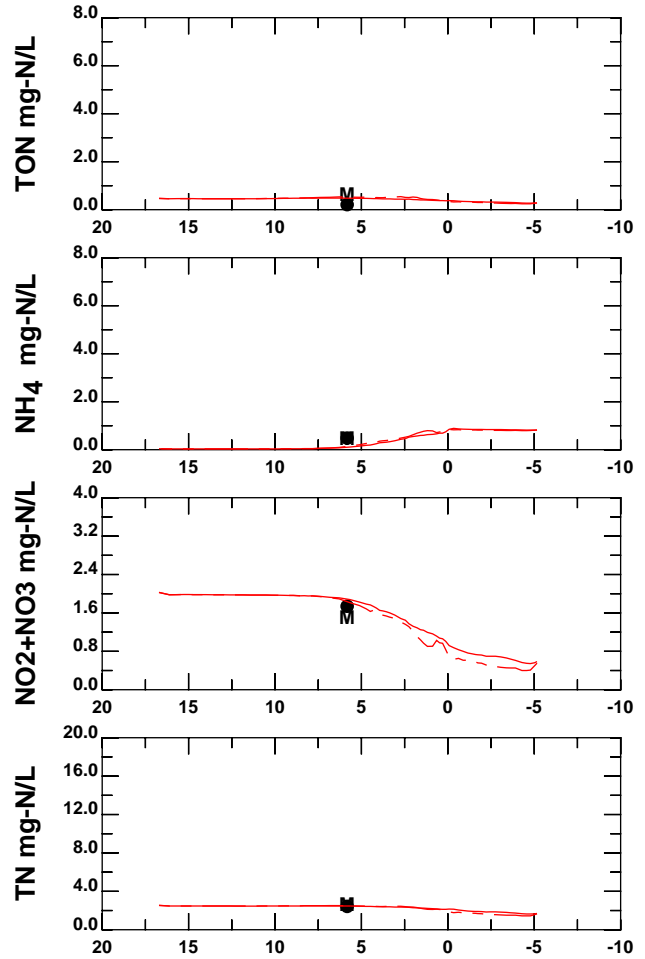
MILE FROM MOUTH PASSAIC RIVER



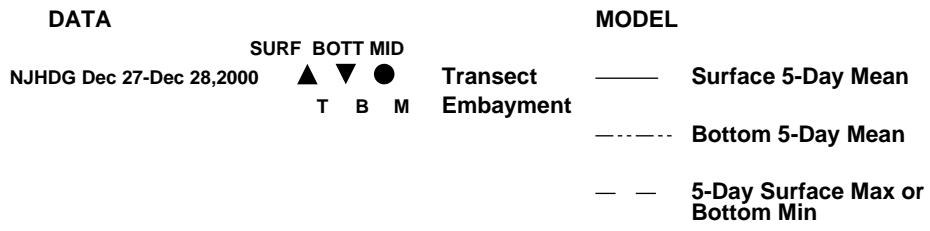


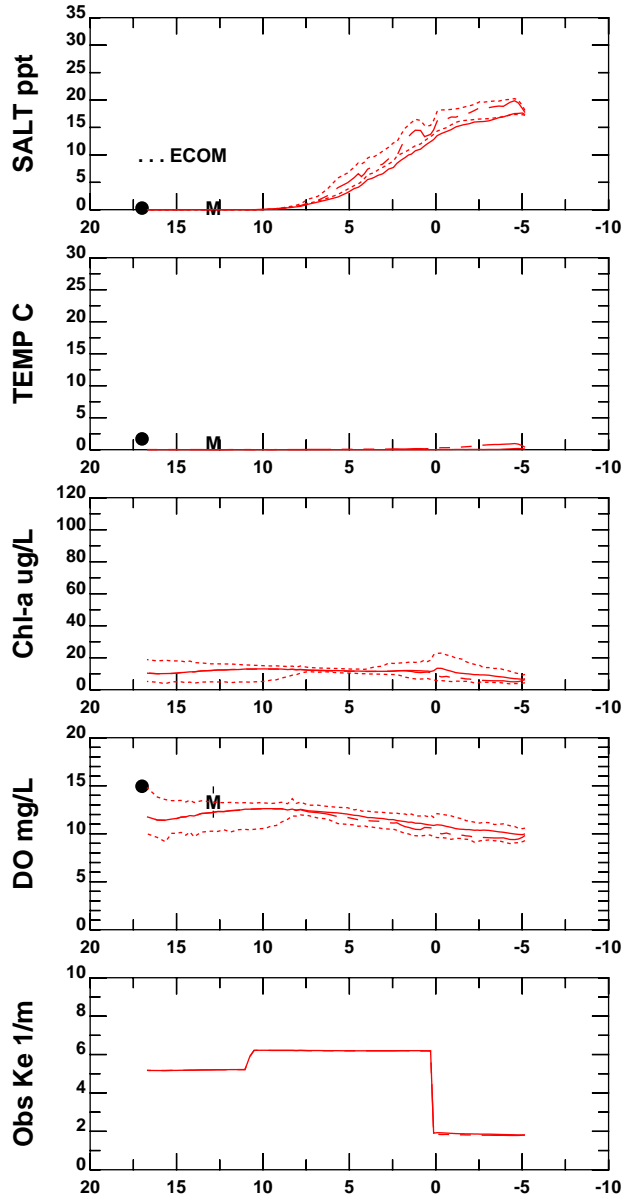
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



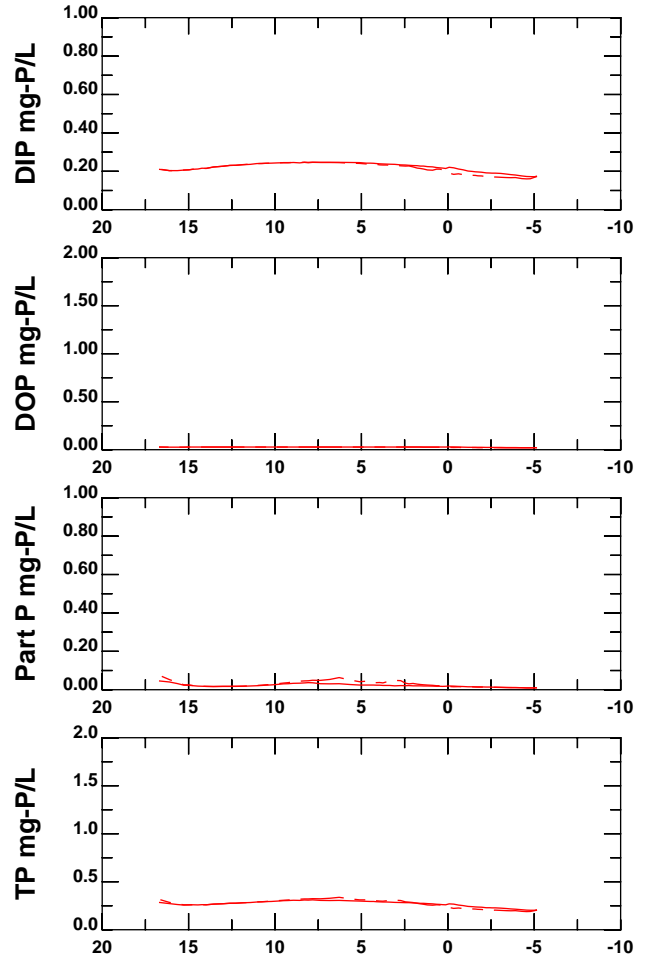
MILE FROM MOUTH PASSAIC RIVER





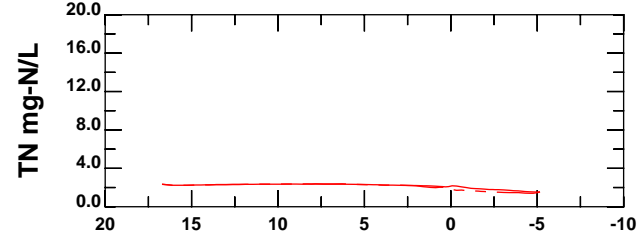
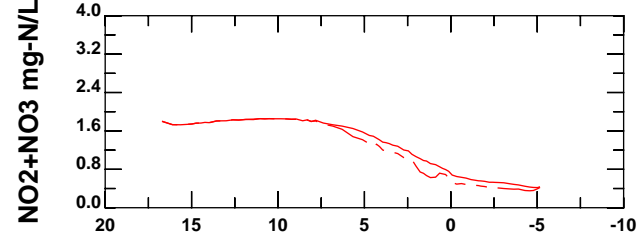
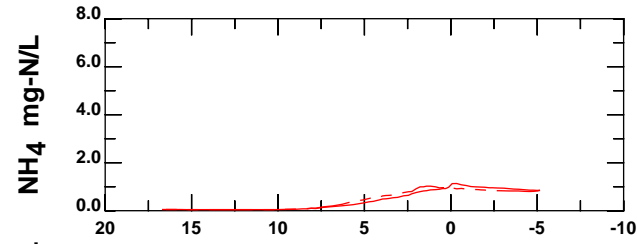
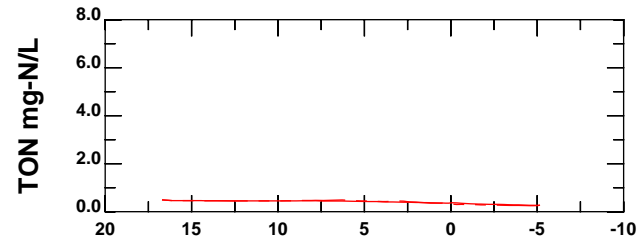
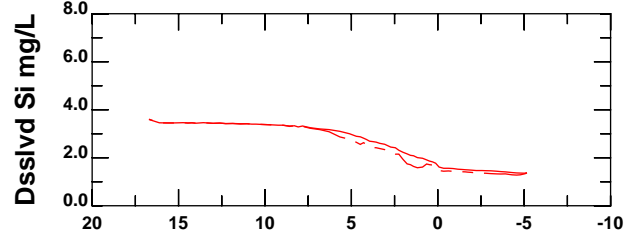
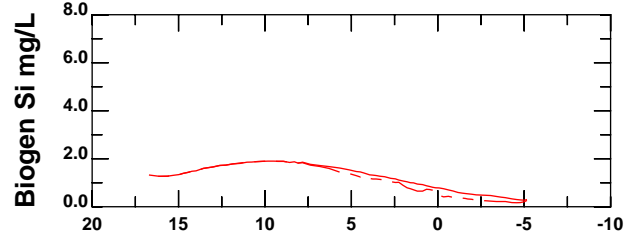
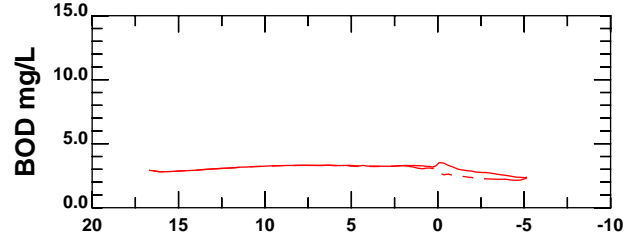
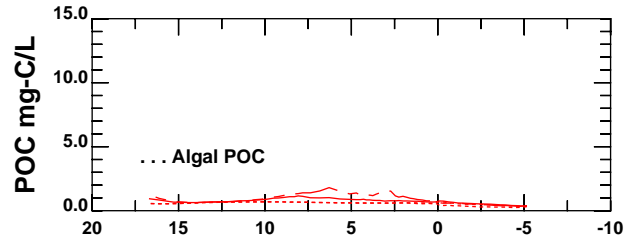
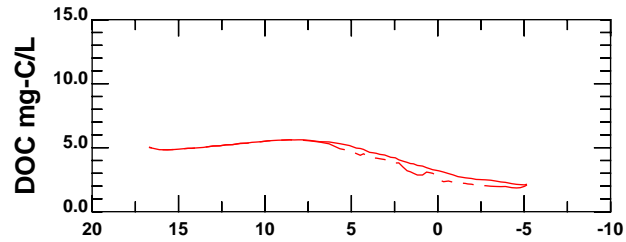
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

<b>DATA</b>		<b>MODEL</b>	
NJHDG Jan 02-Jan 04,2001	SURF ▲ BOTT ▼ MID ● T B M	Transect Embayment	— Surface 5-Day Mean - - - Bottom 5-Day Mean - - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jan 02-Jan 04,2001

SURF BOTT MID

▲ ▼ ●  
T B M

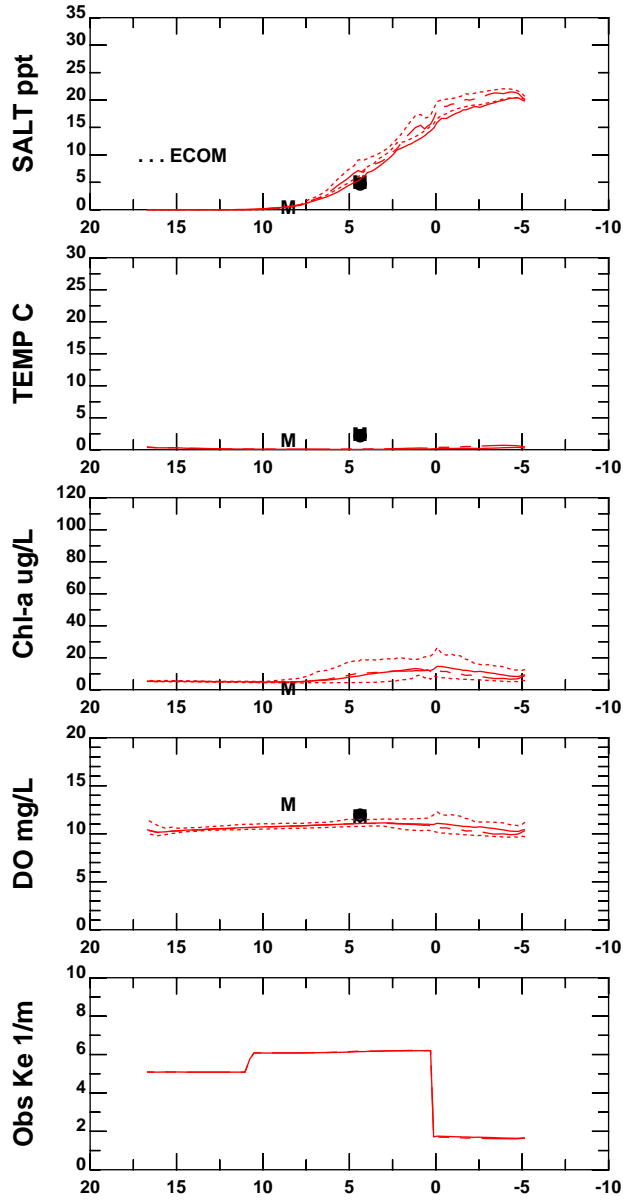
Transect  
Embayment

MODEL

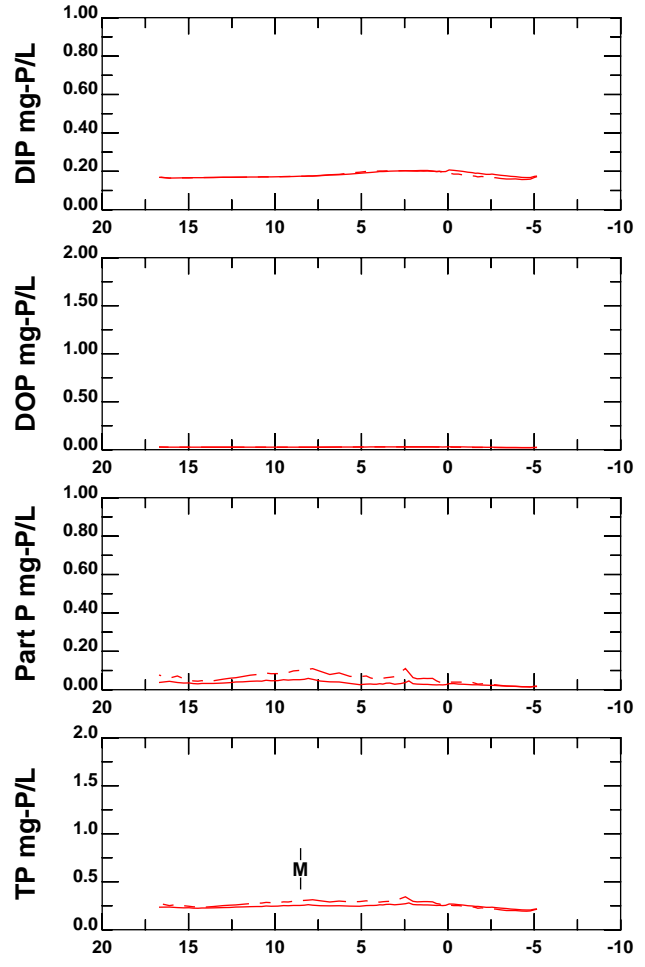
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jan 11,2001

MODEL

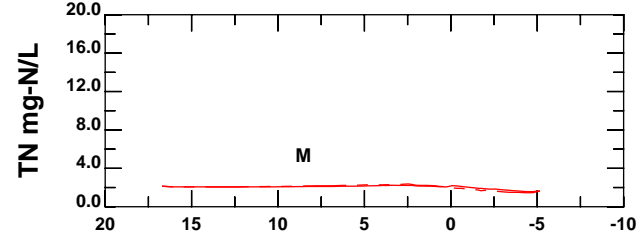
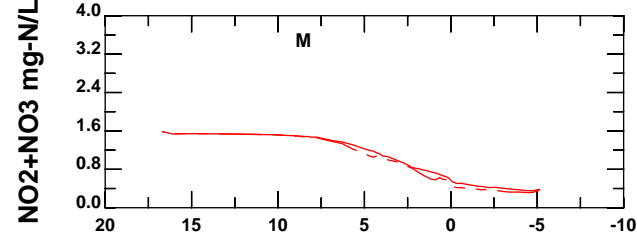
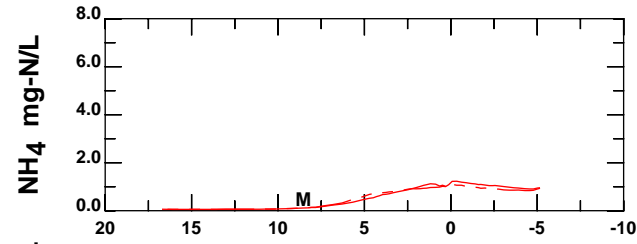
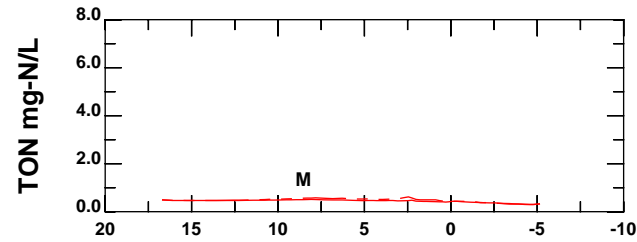
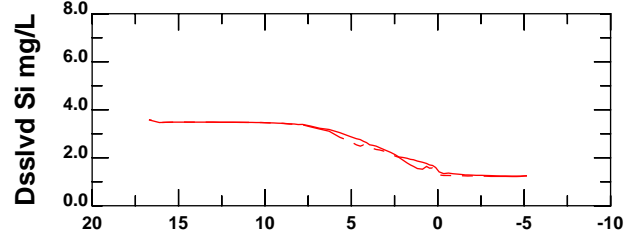
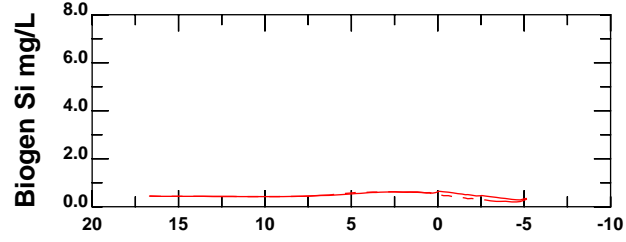
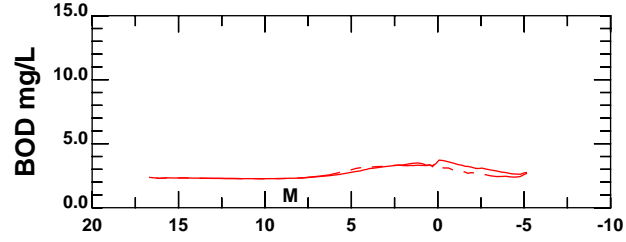
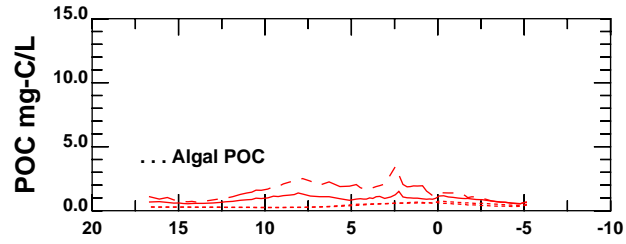
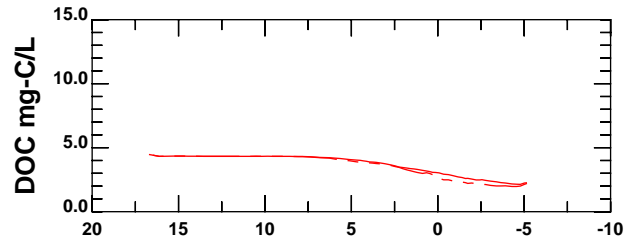
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001





MILE FROM MOUTH PASSAIC RIVER

DATA

NJHGD Jan 11,2001

SURF BOTT MID

▲ ▼ ●  
T B M

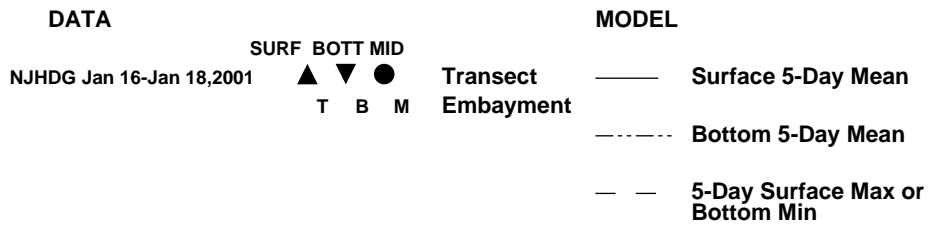
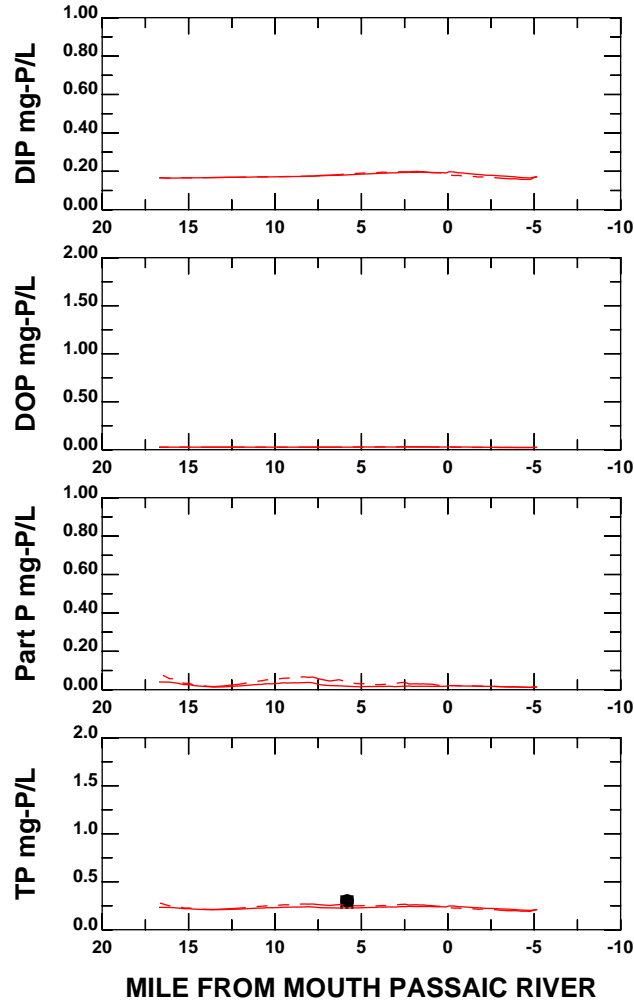
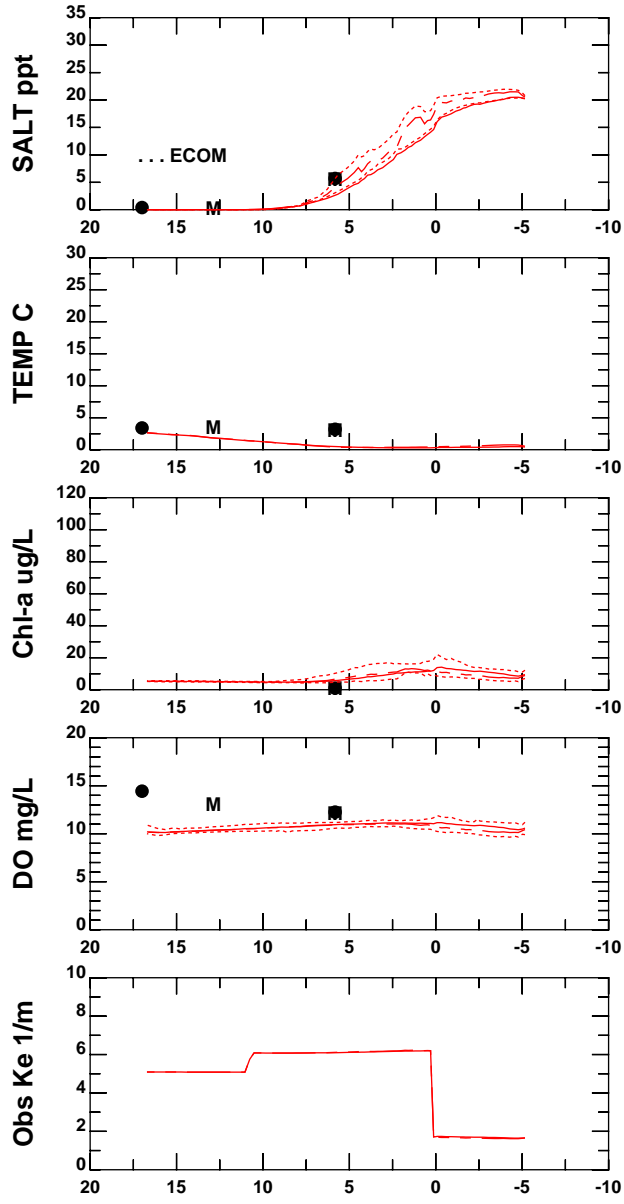
Transect  
Embayment

MODEL

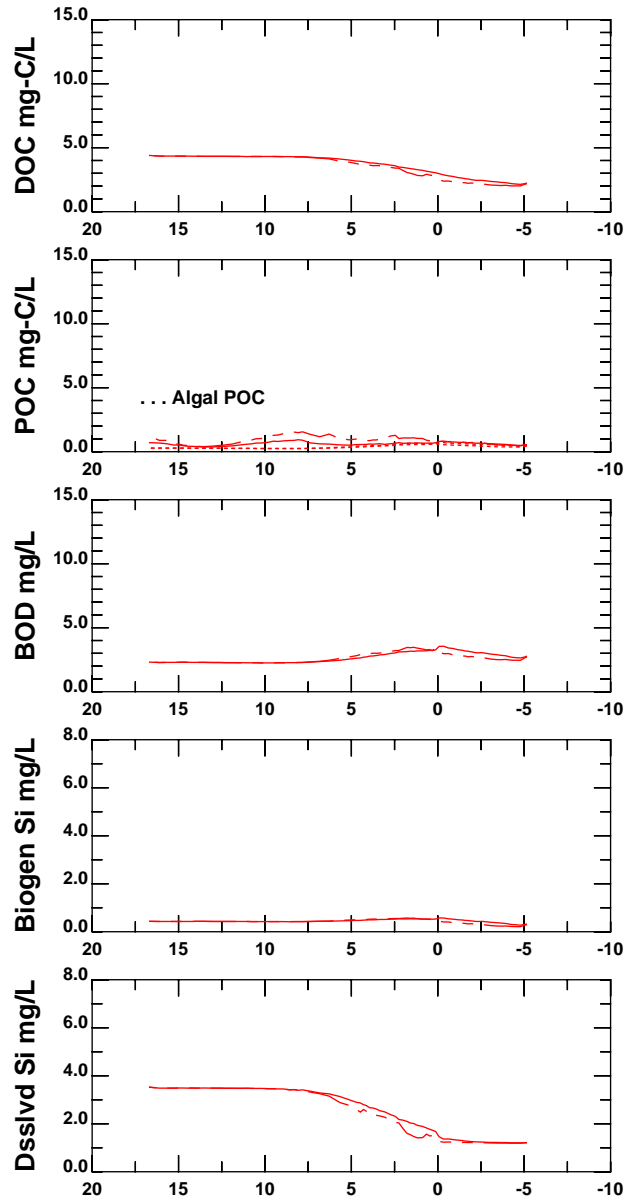
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



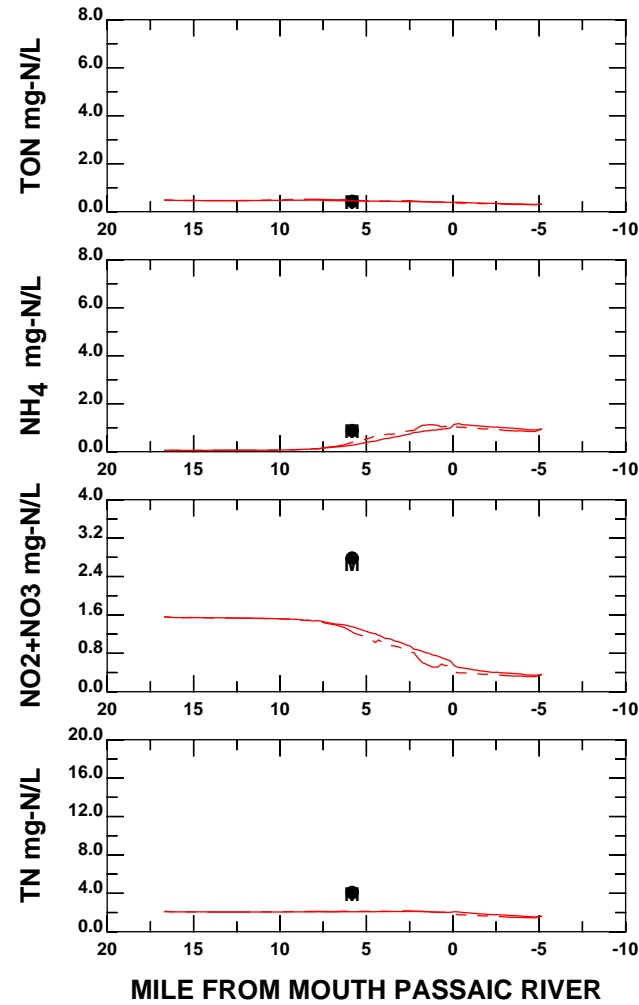
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



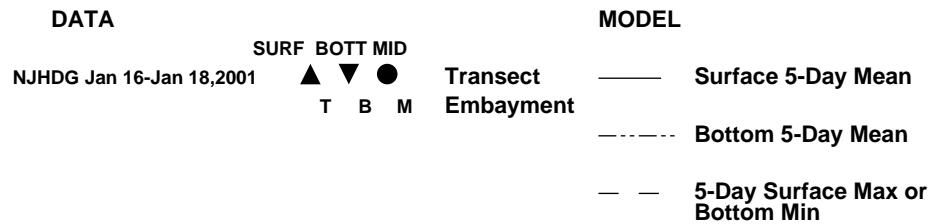
MILE FROM MOUTH PASSAIC RIVER

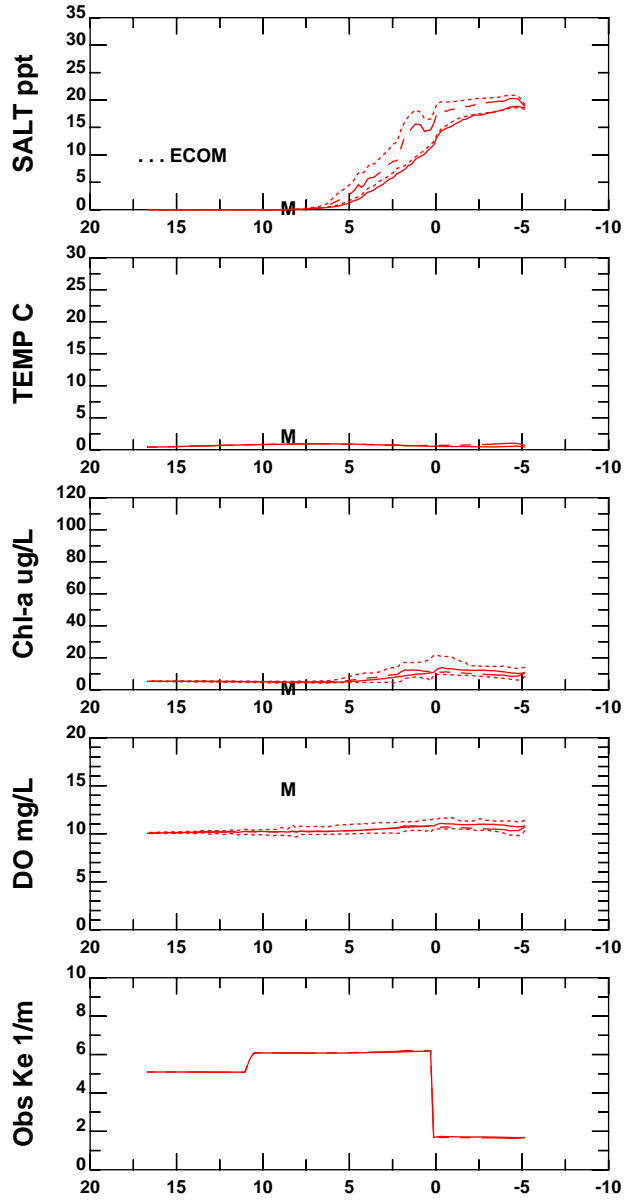
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

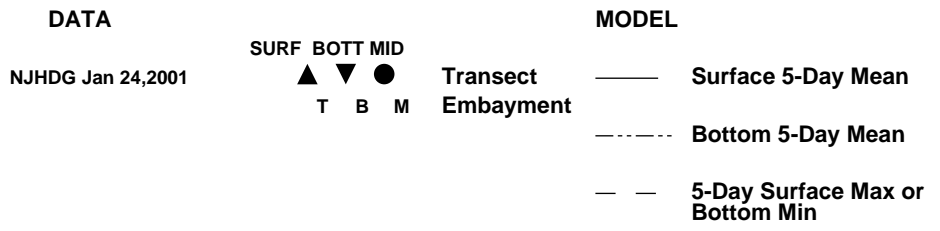
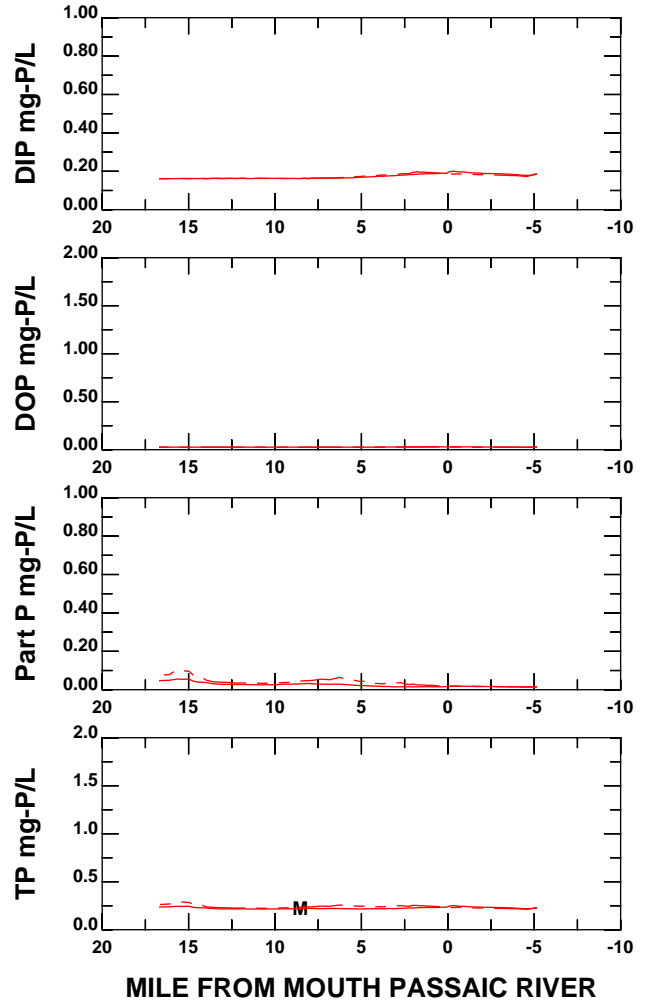


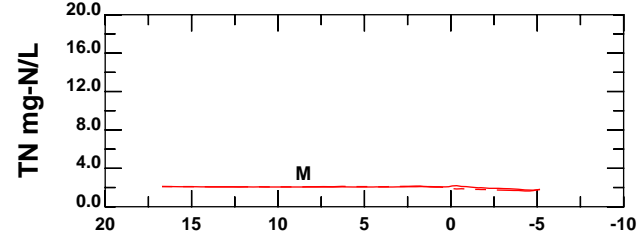
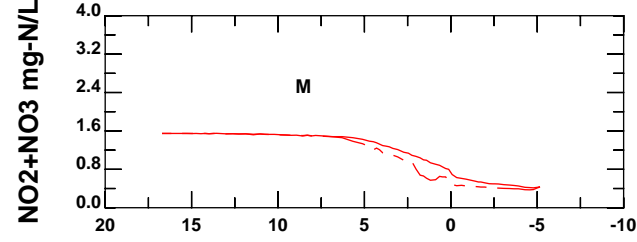
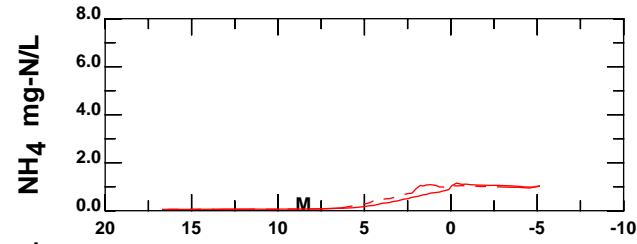
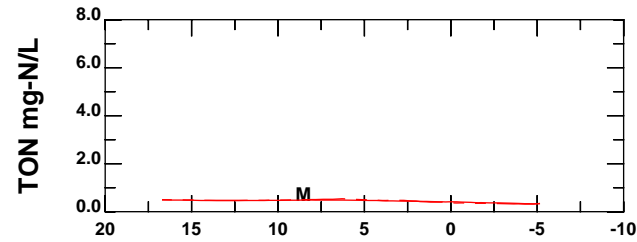
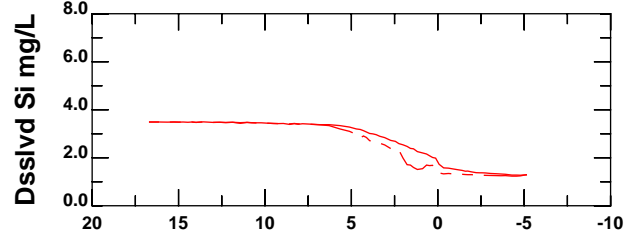
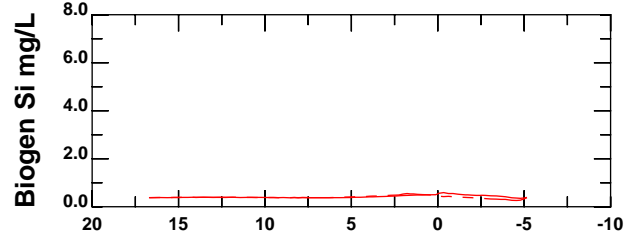
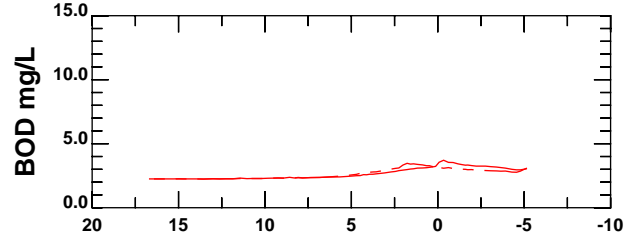
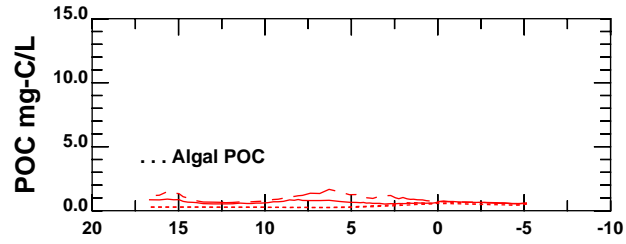
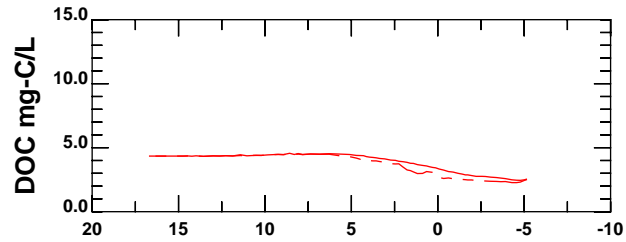
MILE FROM MOUTH PASSAIC RIVER





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001





MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jan 24,2001

SURF BOTT MID

▲ ▼ ●  
T B M

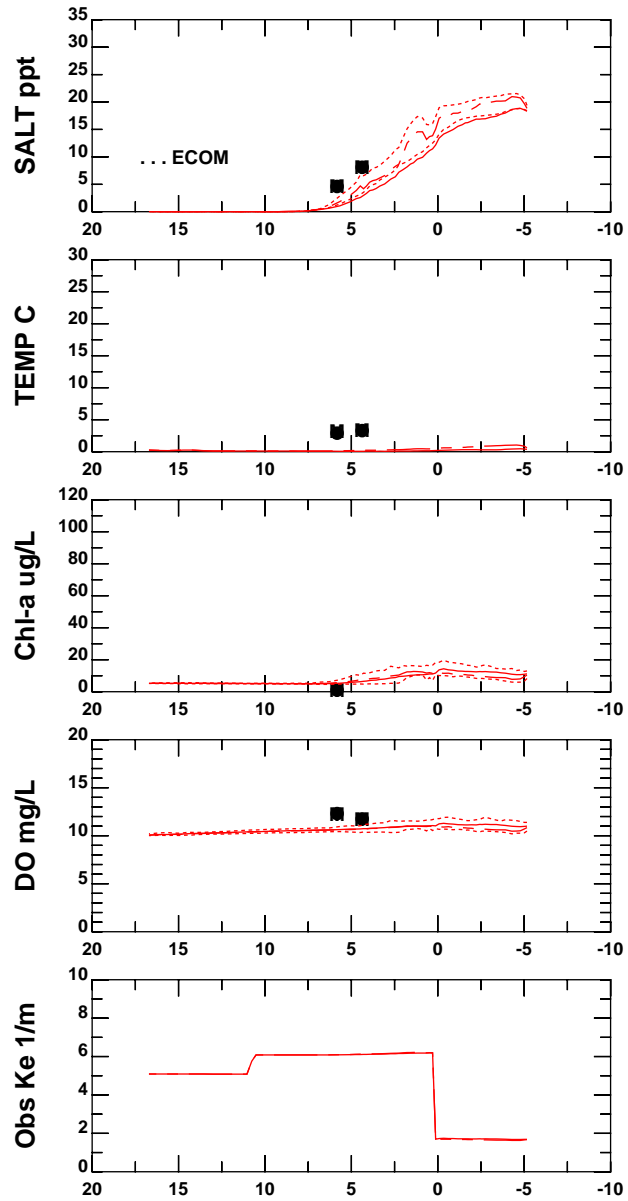
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

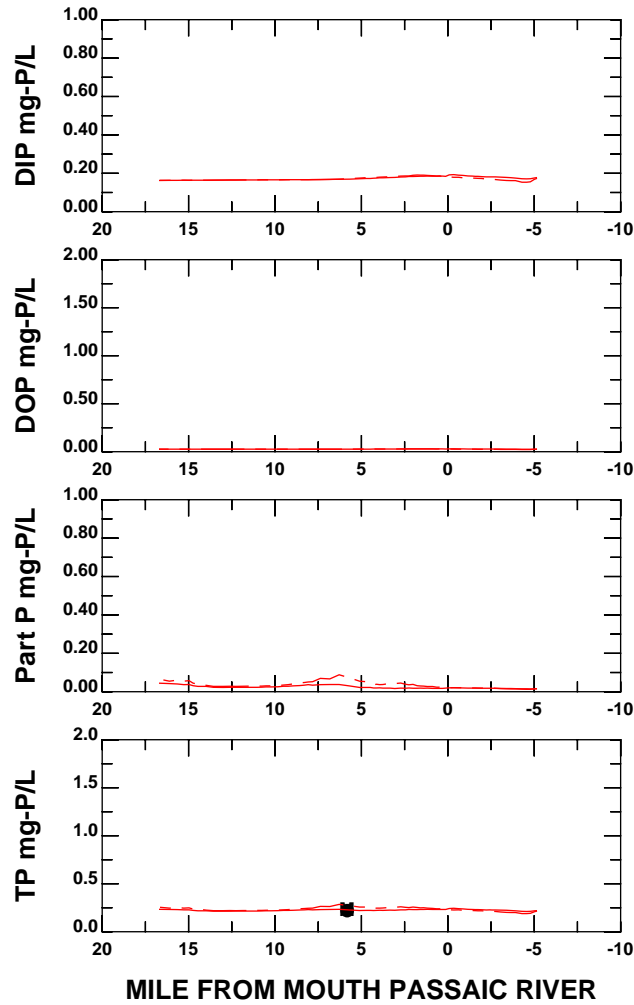
RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

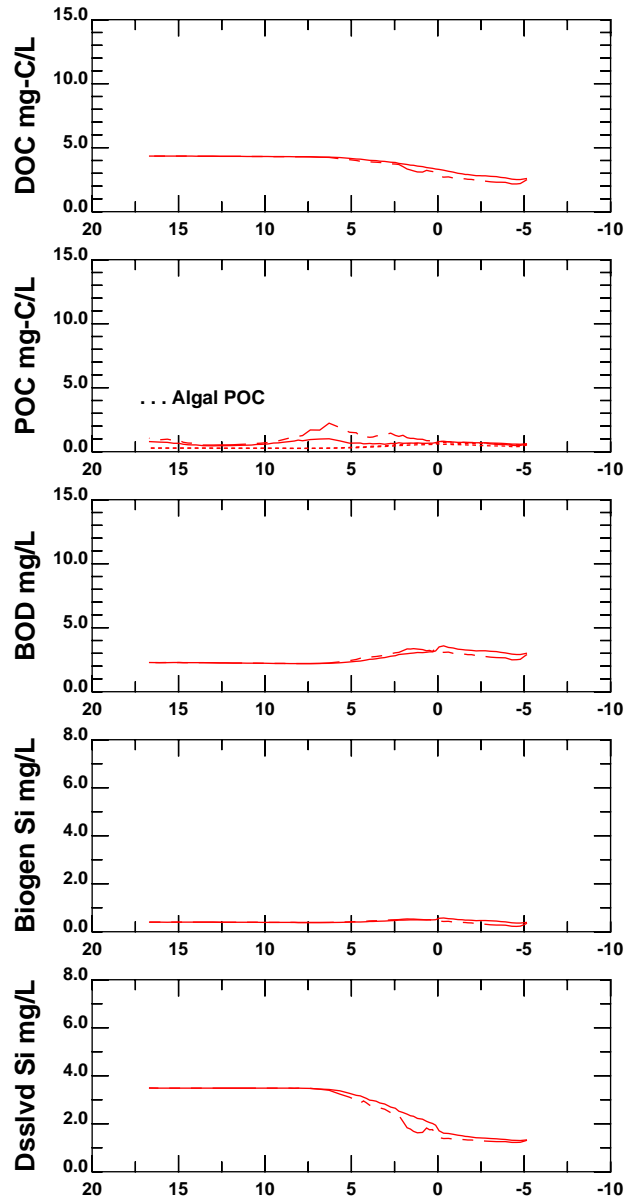


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jan 29,2001

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

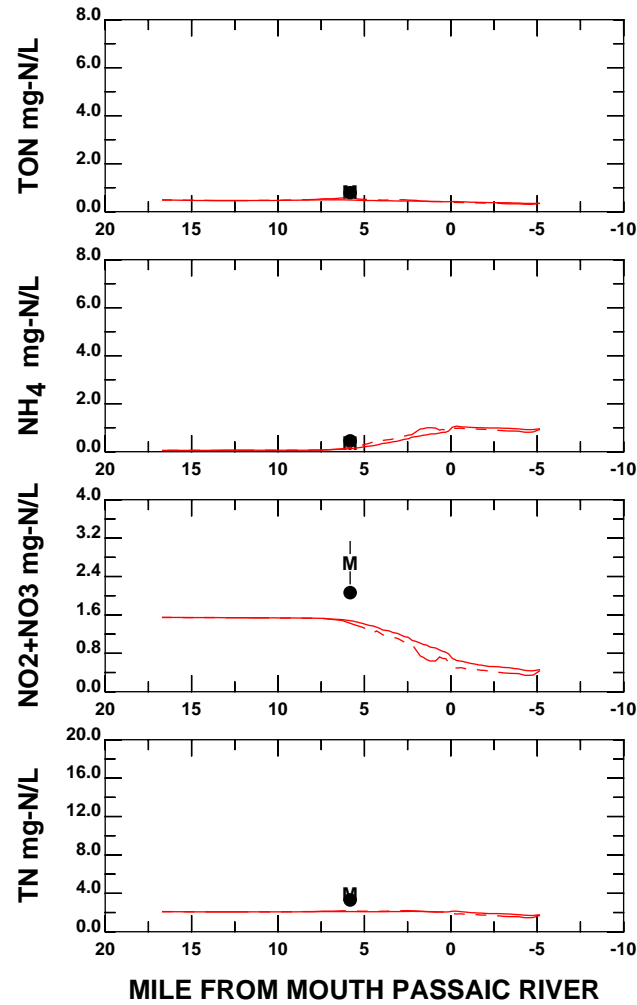
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jan 29,2001

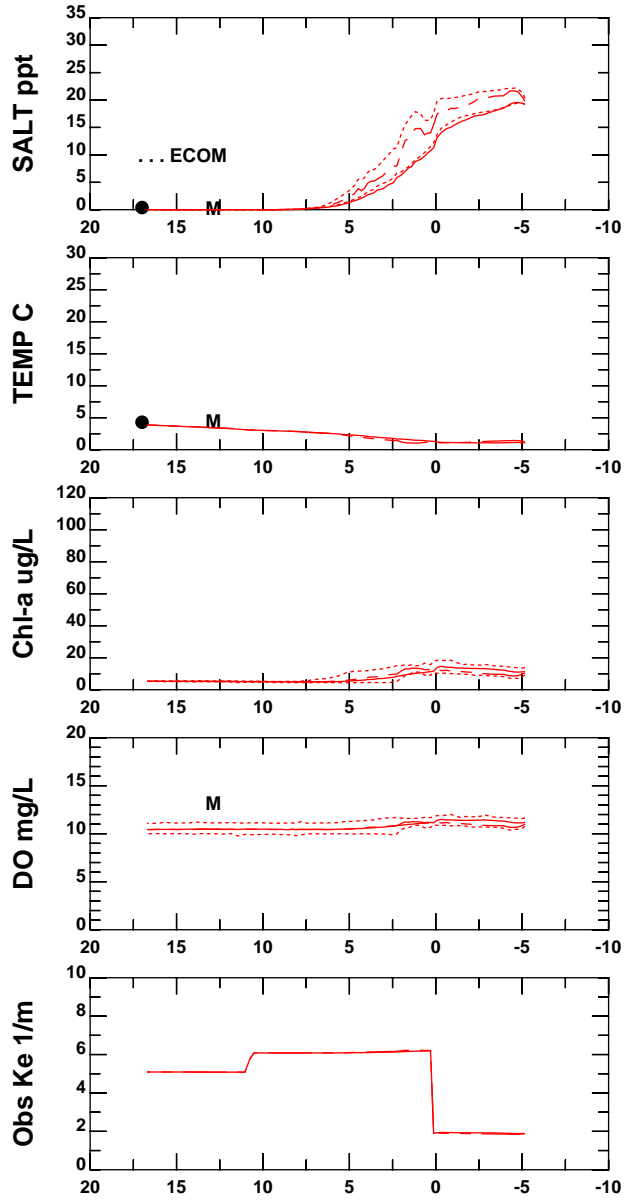
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

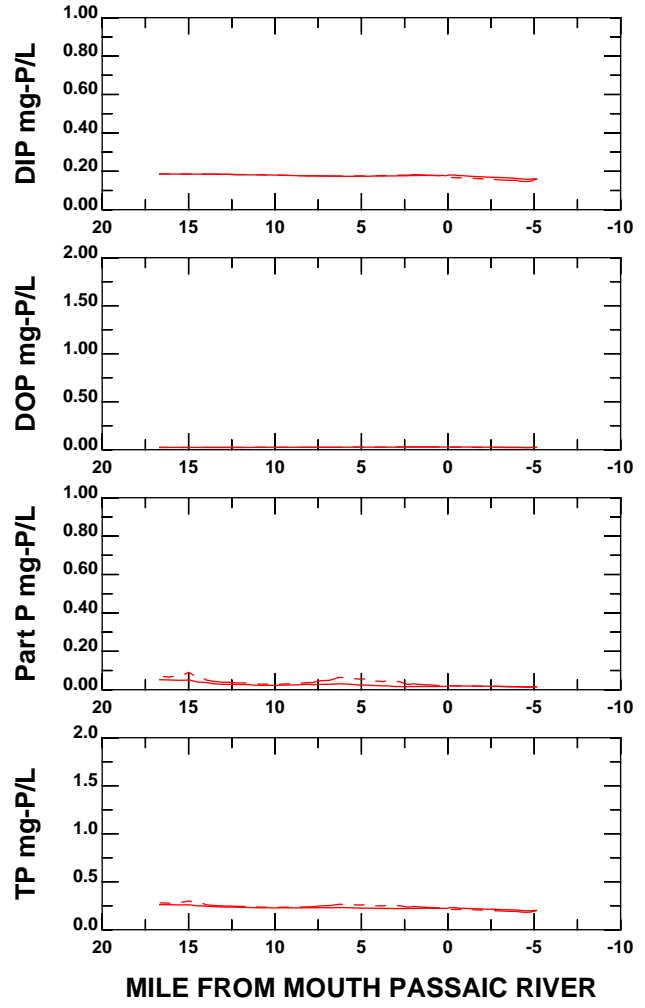
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



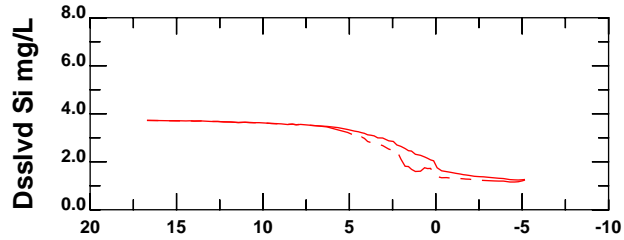
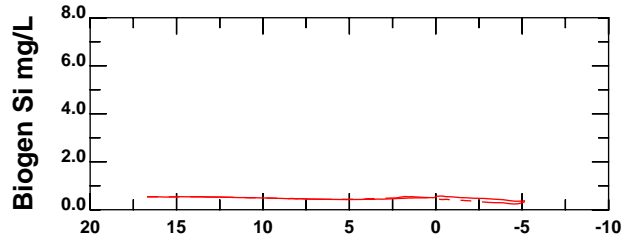
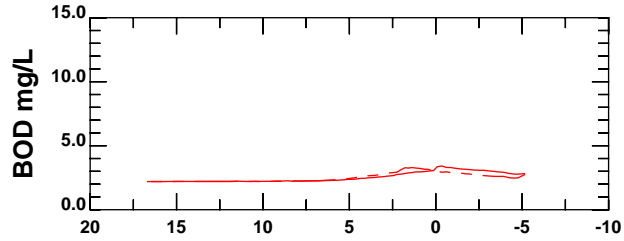
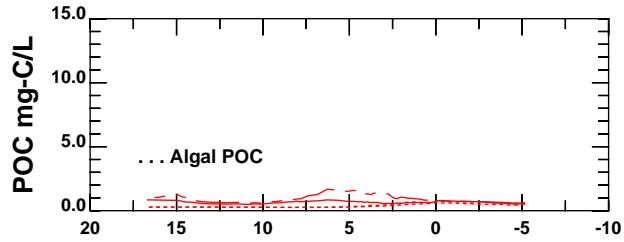
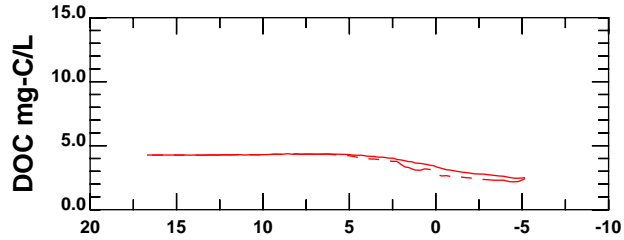
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Feb 01,2001

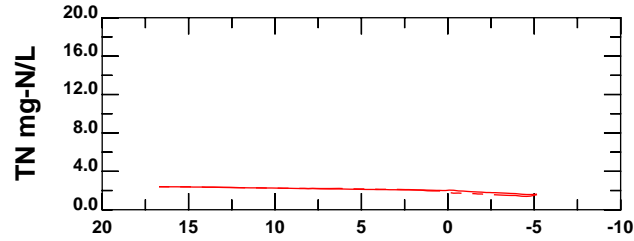
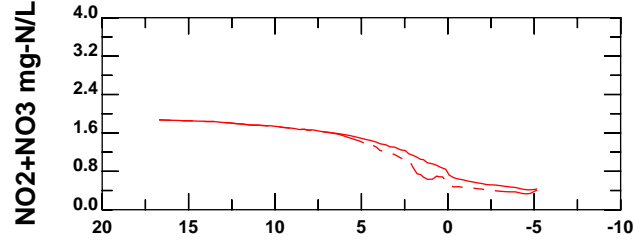
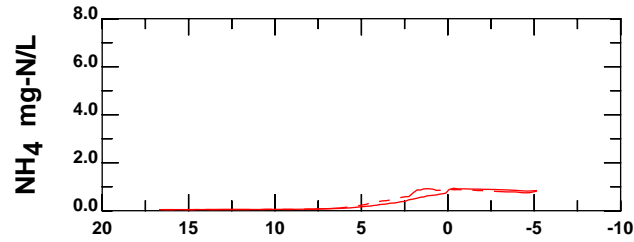
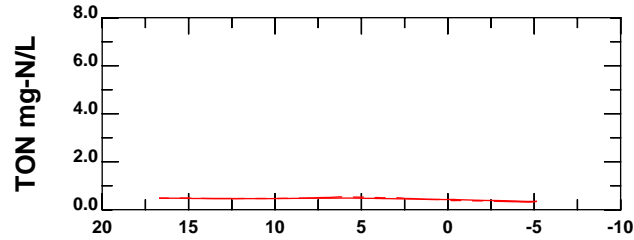
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Feb 01,2001

MODEL

SURF BOTT MID

▲ ▼ ● Transect

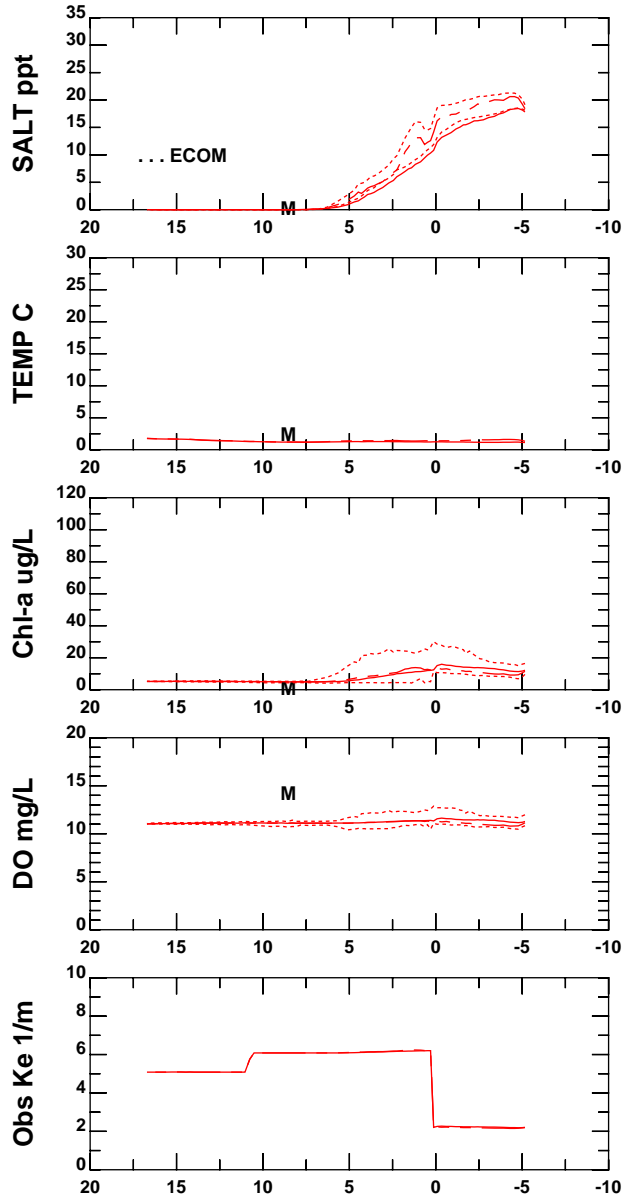
T B M Embayment

— Surface 5-Day Mean

- - - Bottom 5-Day Mean

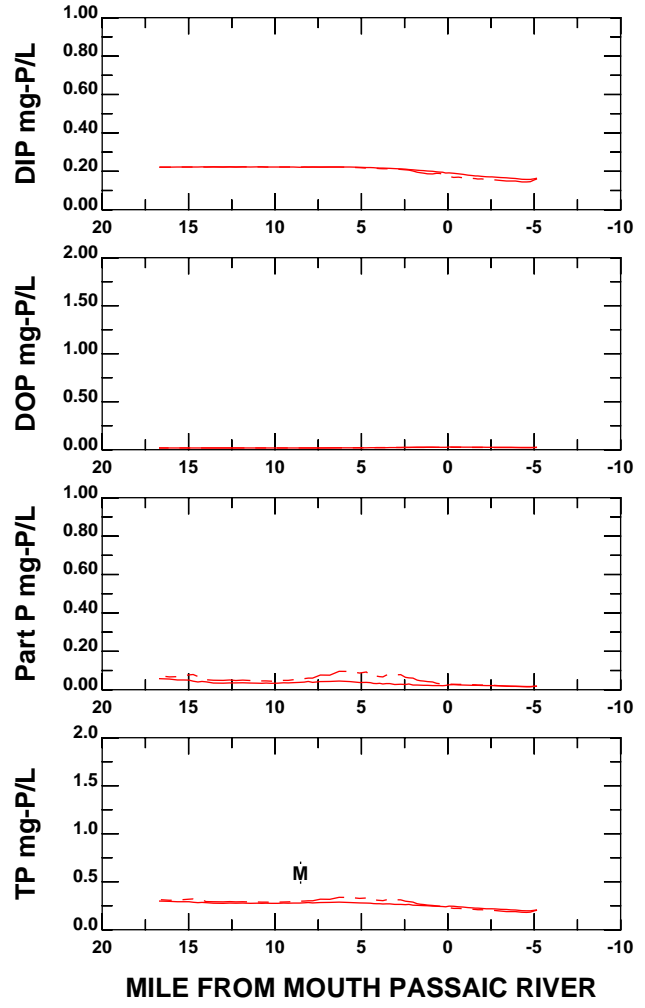
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

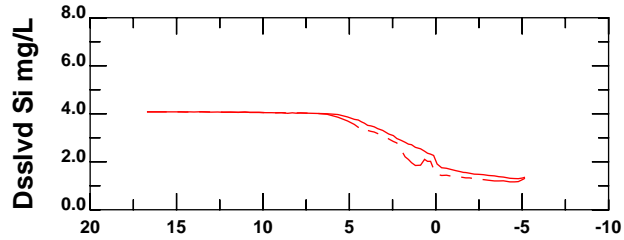
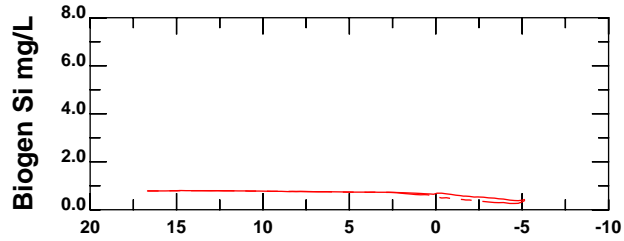
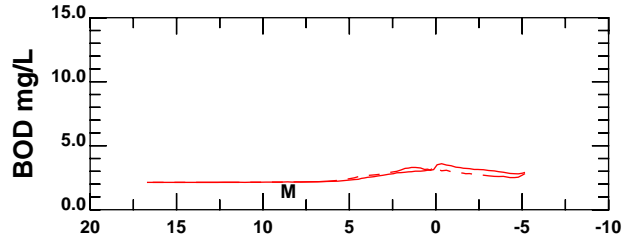
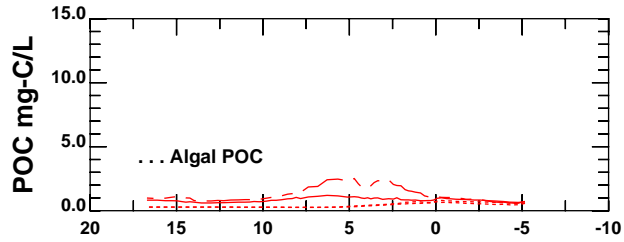
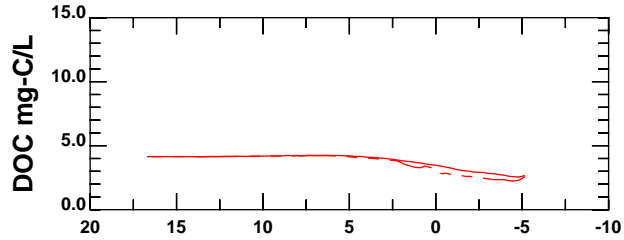


MILE FROM MOUTH PASSAIC RIVER

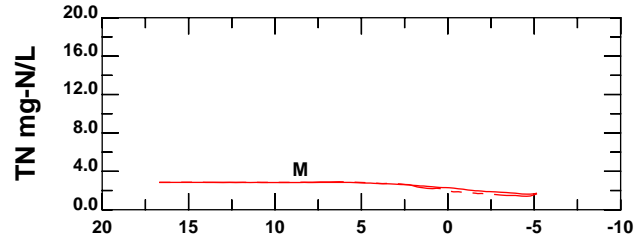
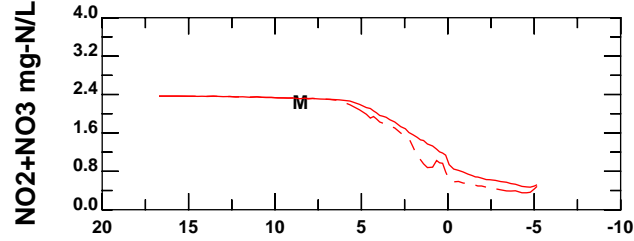
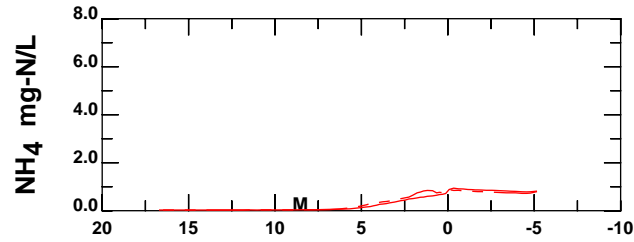
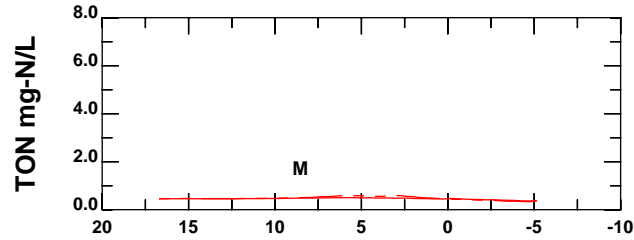
DATA  
 NJHDG Feb 05,2001

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHGD Feb 05,2001

SURF BOTT MID

▲ ▼ ●  
T B M

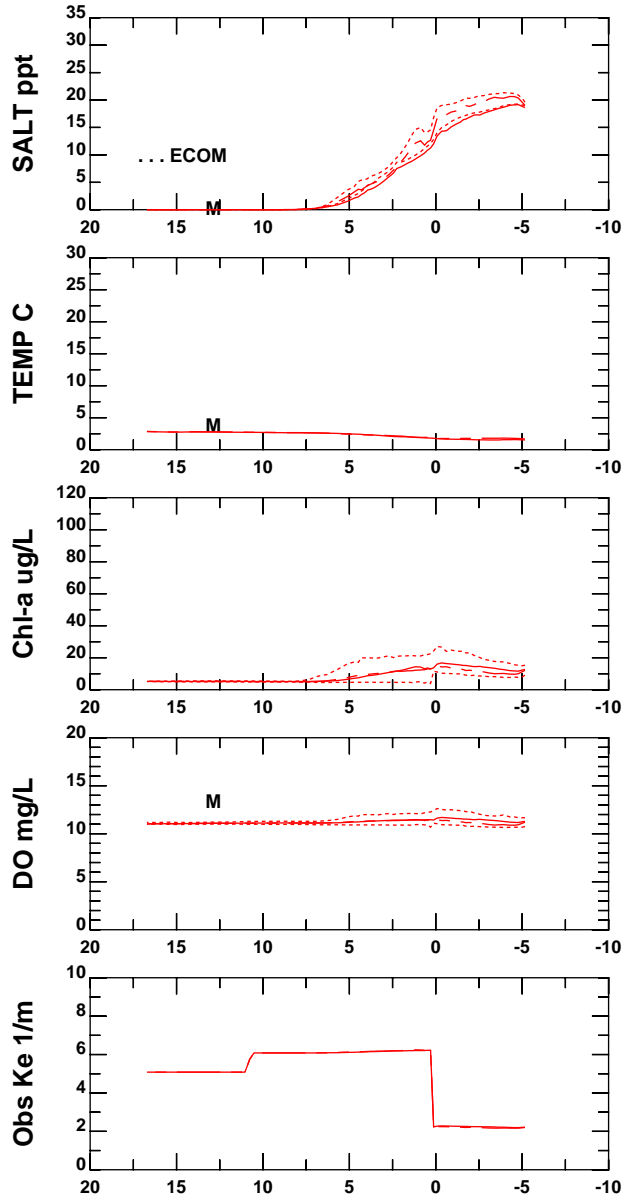
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

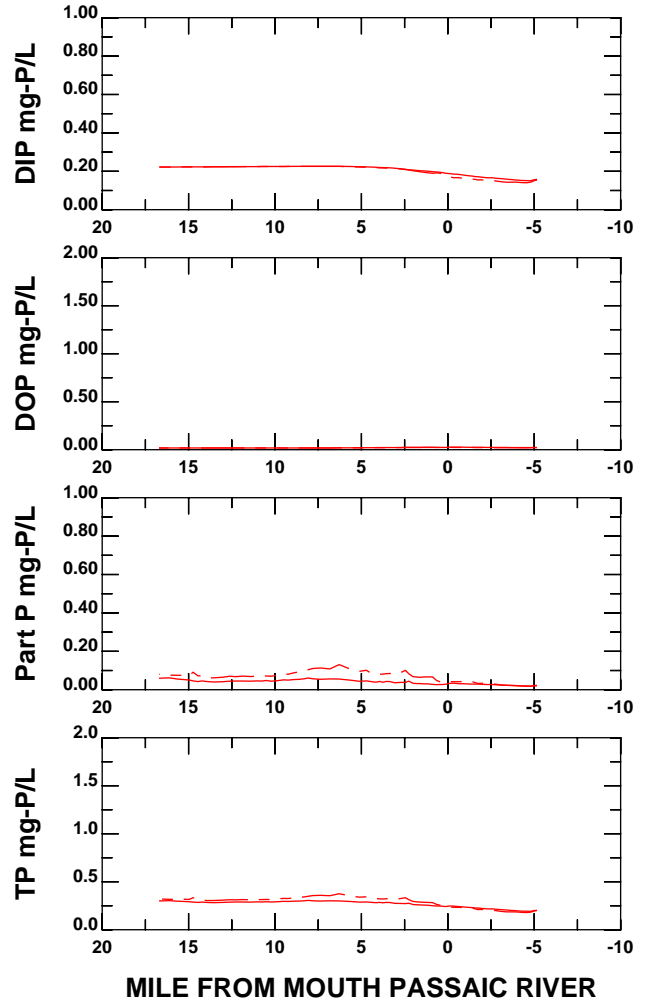
RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0001

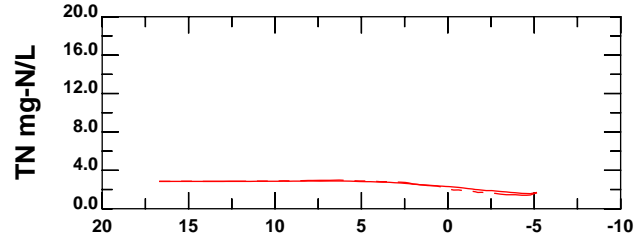
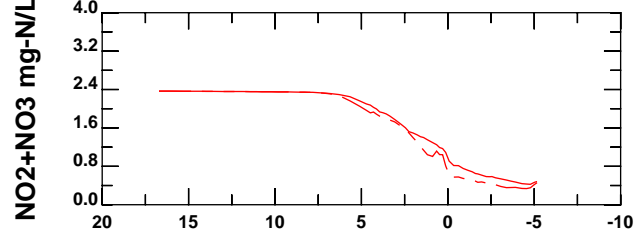
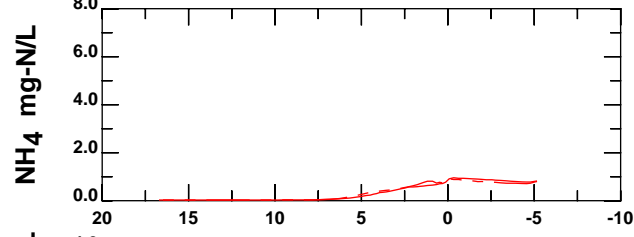
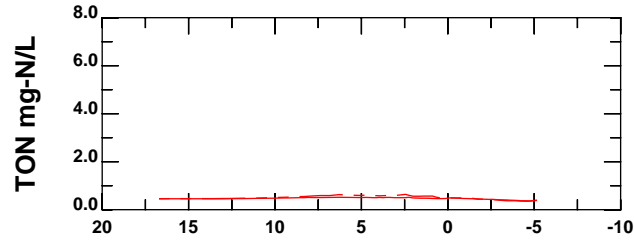
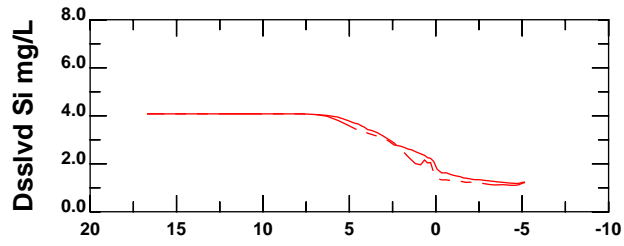
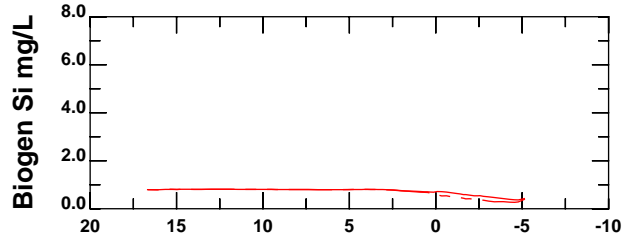
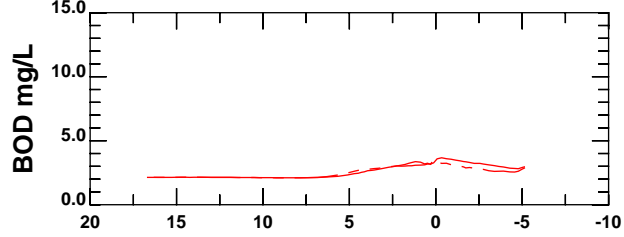
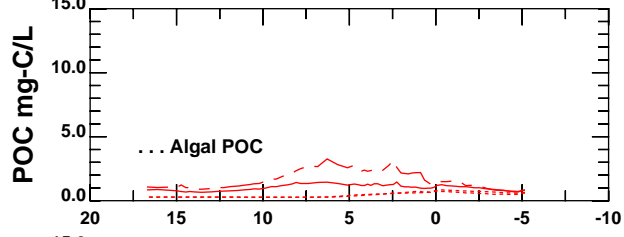
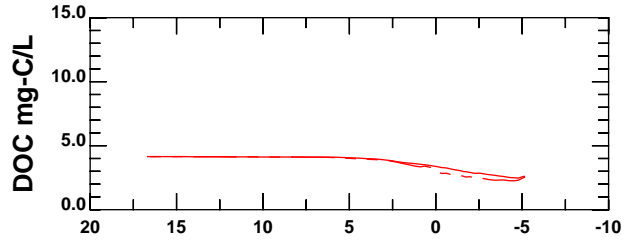


**DATA**  
NJHDG Feb 13,2001

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



DATA  
NJHDG Feb 13, 2001

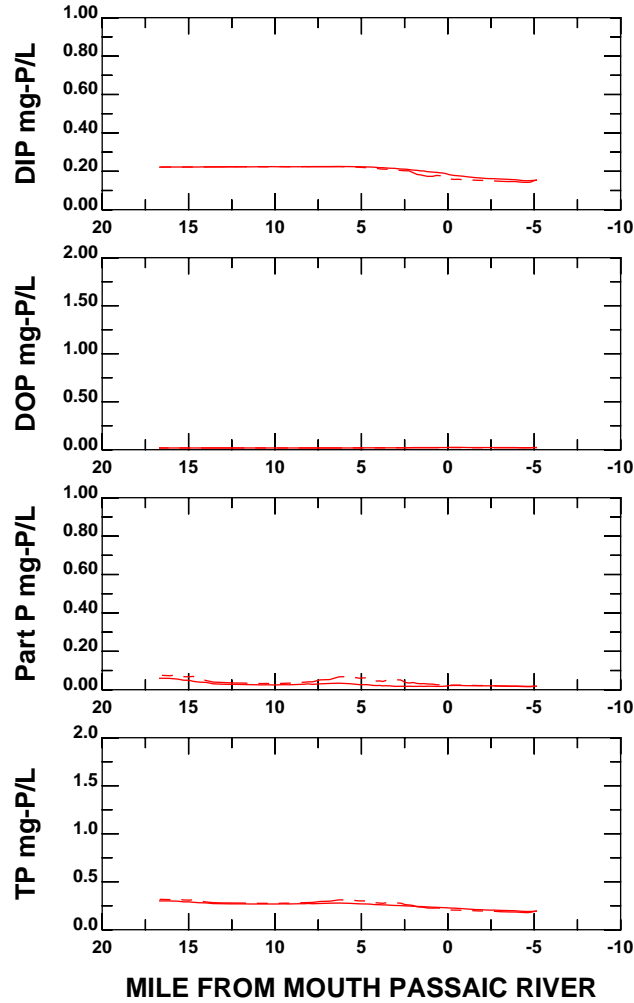
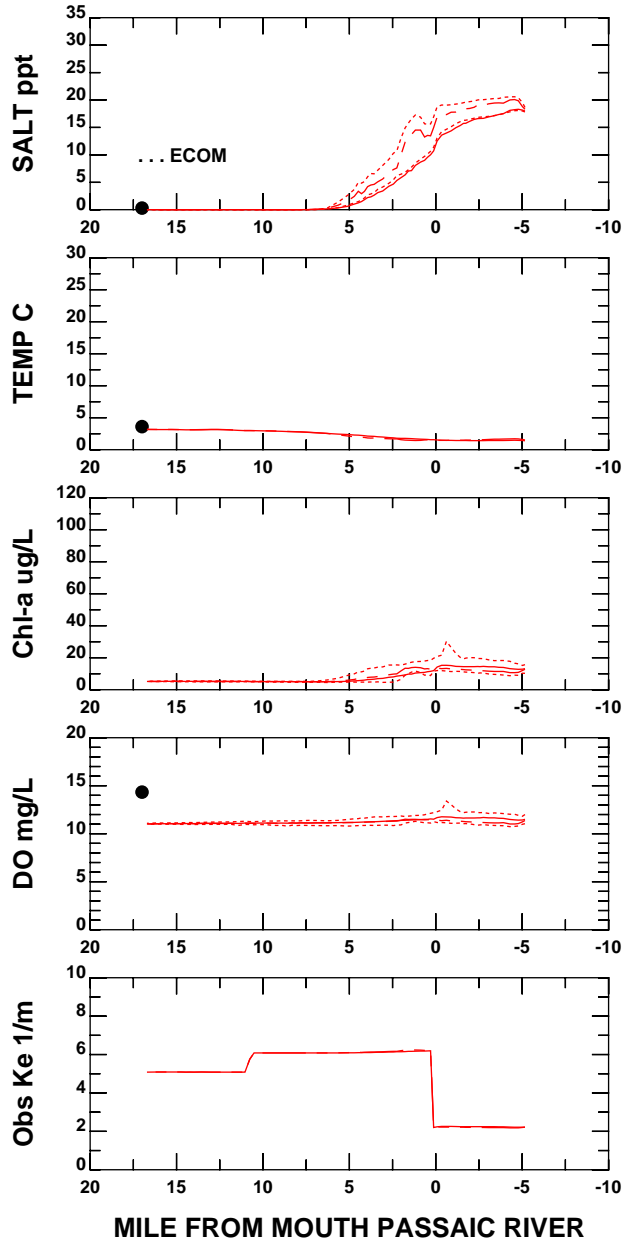
MODEL

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



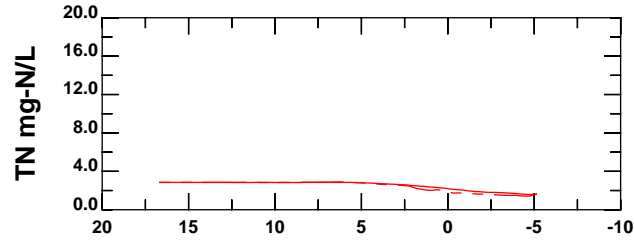
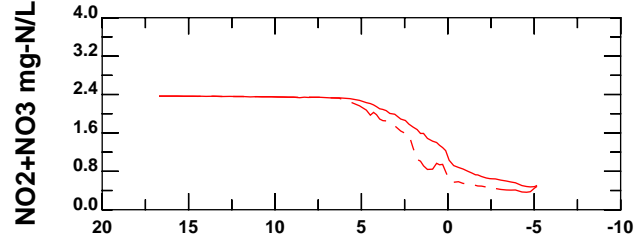
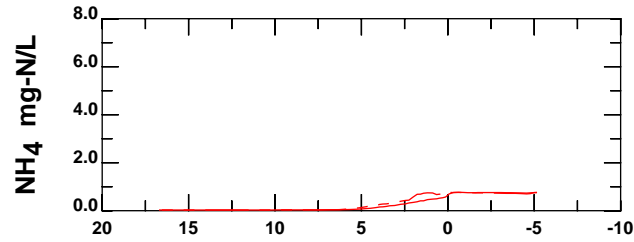
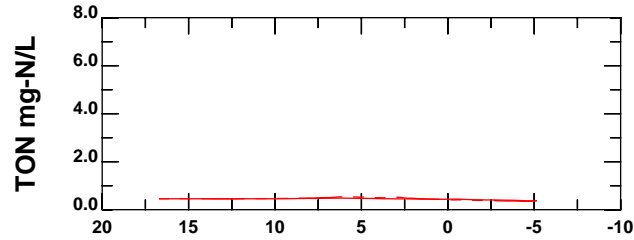
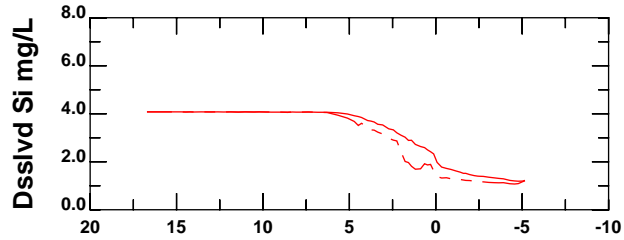
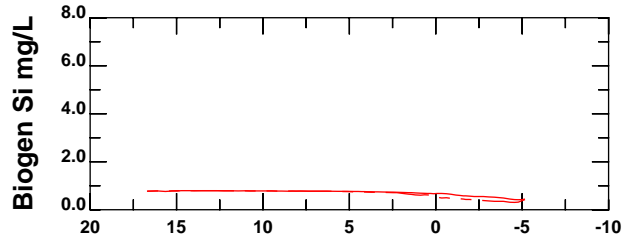
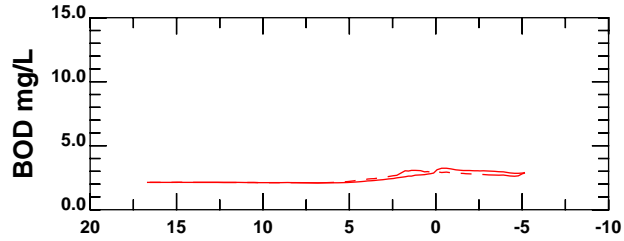
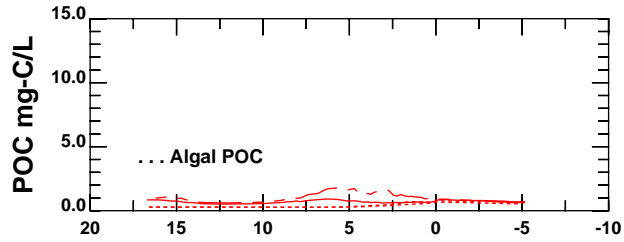
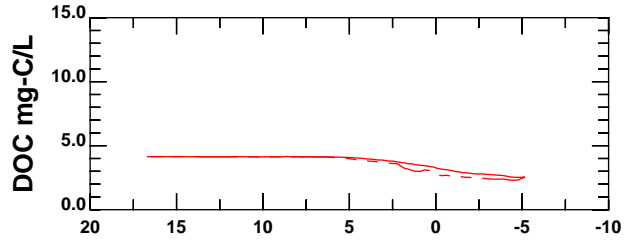
**DATA**  
NJHDG Feb 14, 2001

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



DATA  
NJHDG Feb 14, 2001

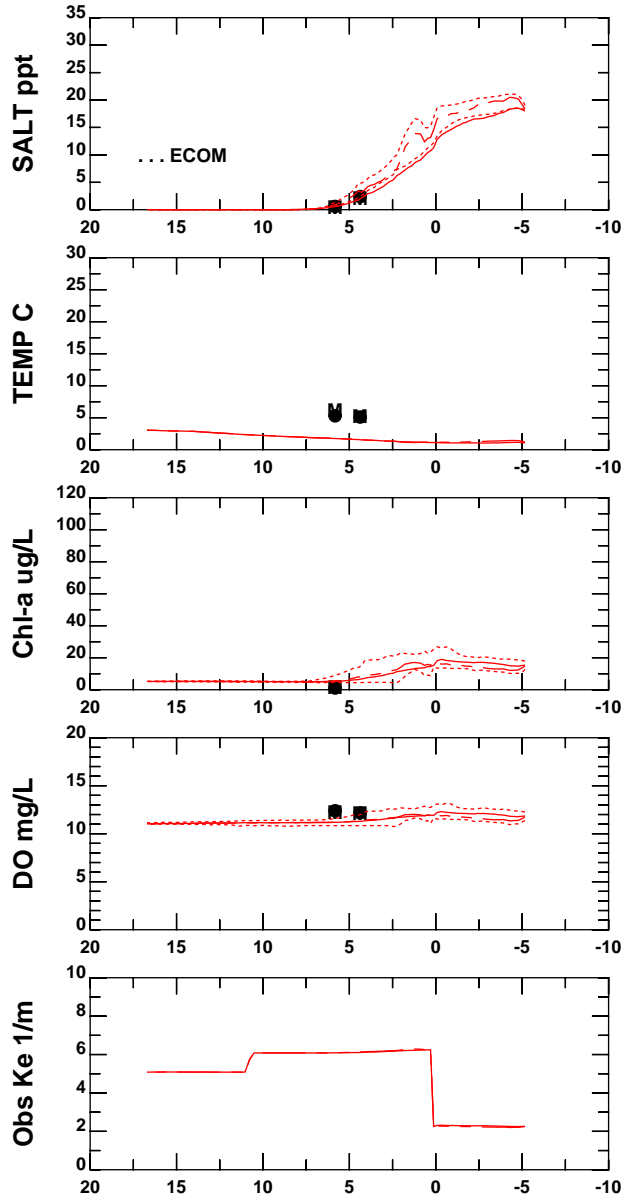
MODEL

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

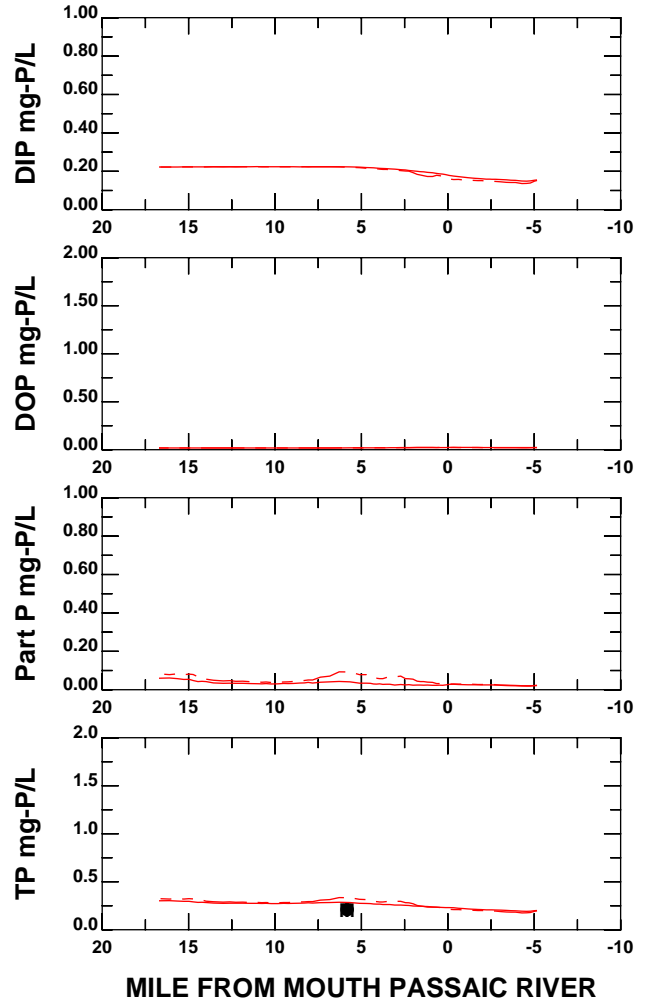
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

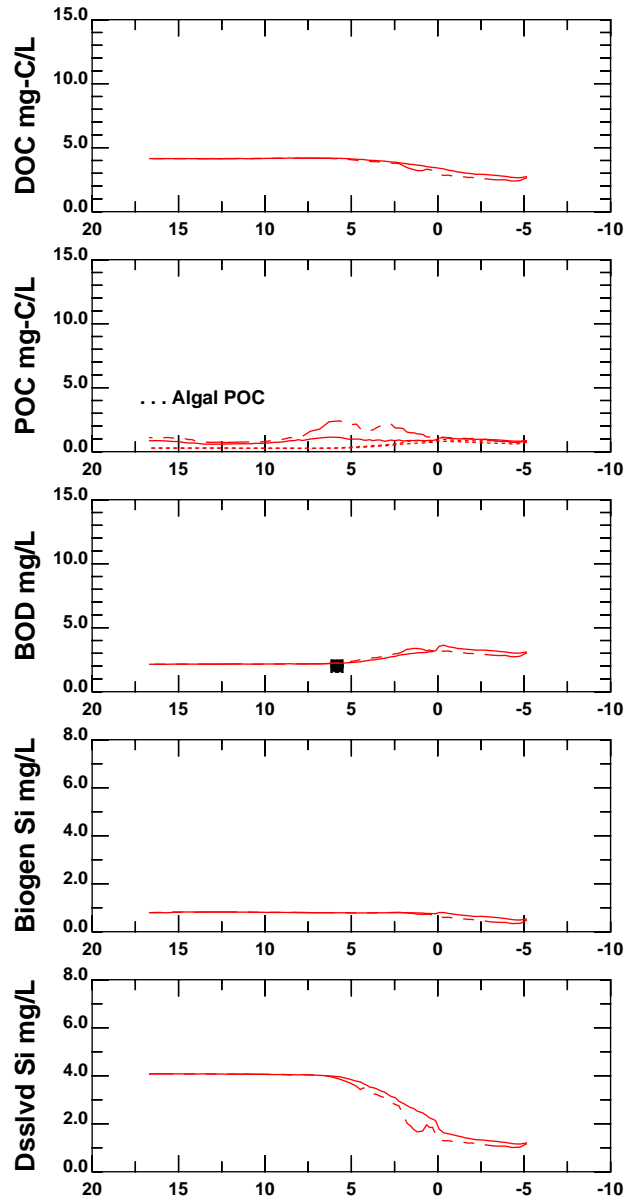
DATA  
 NJHDG Feb 27,2001

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

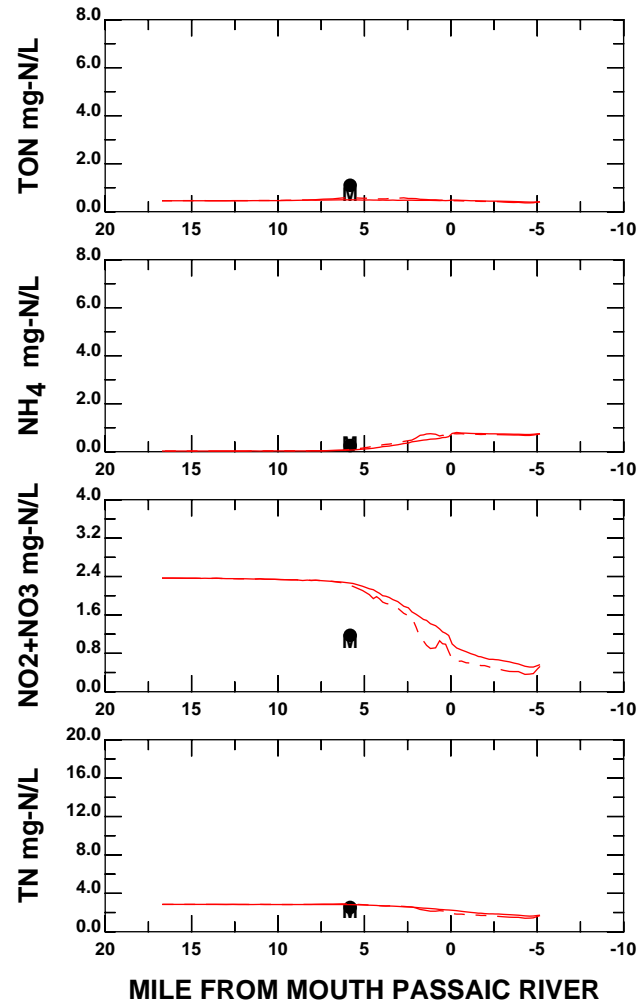




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Feb 27,2001

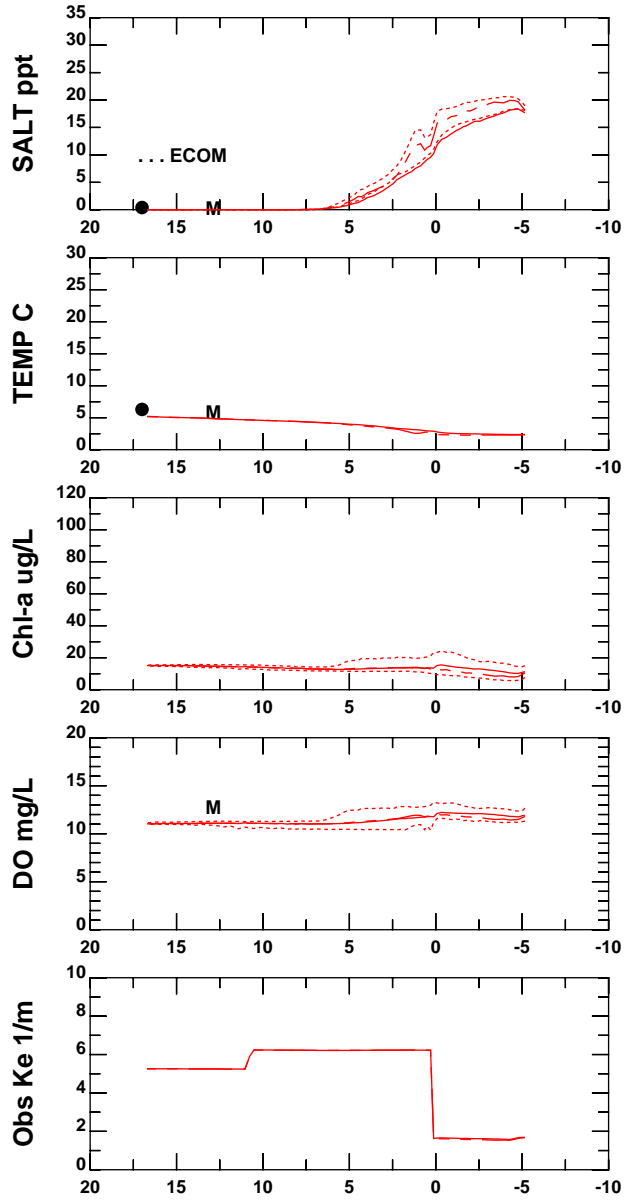
SURF BOTT MID

▲ ▼ ●  
T B M

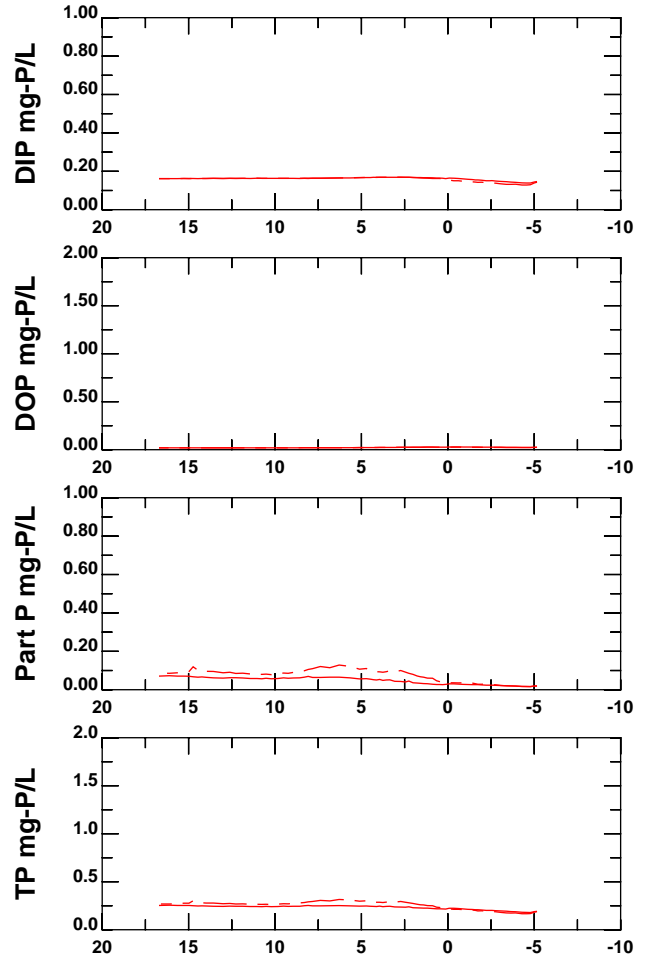
Transect  
Embayment

#### MODEL

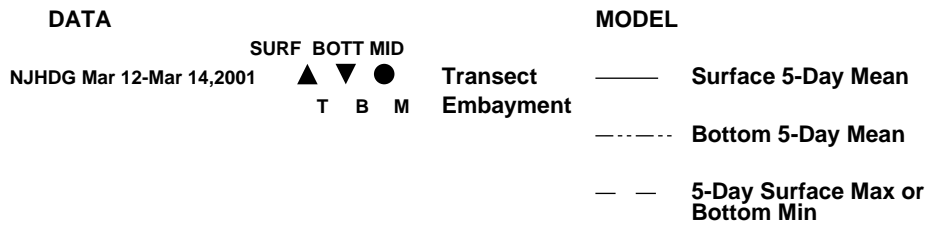
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



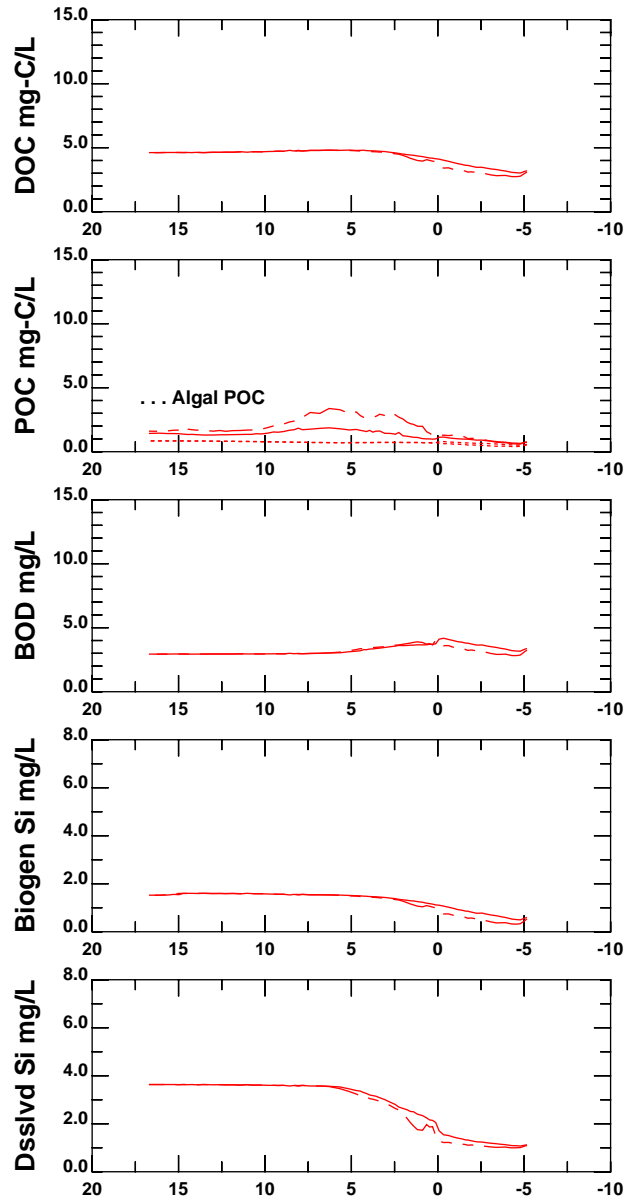
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



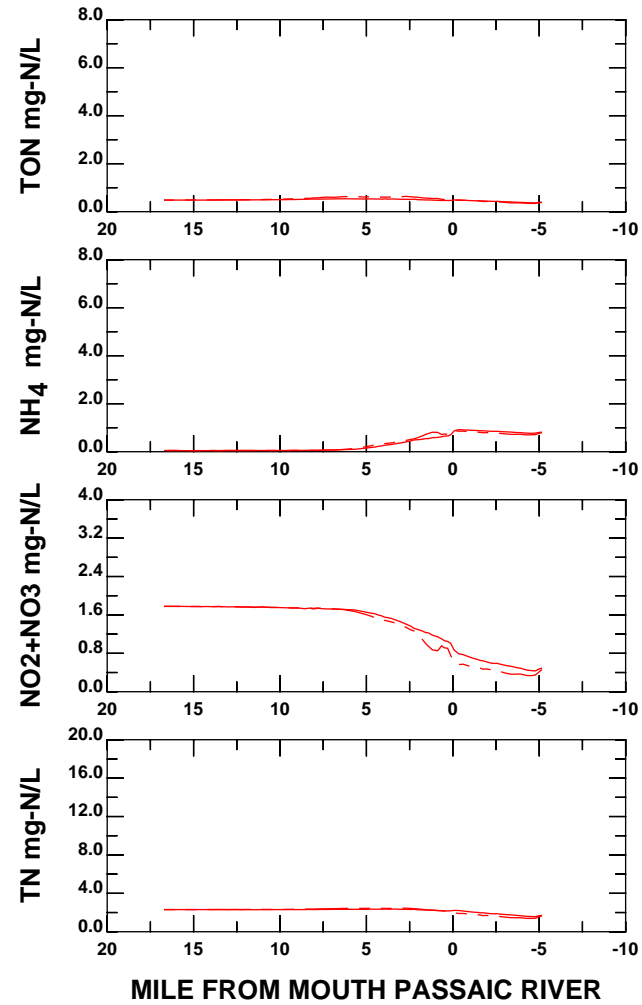
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



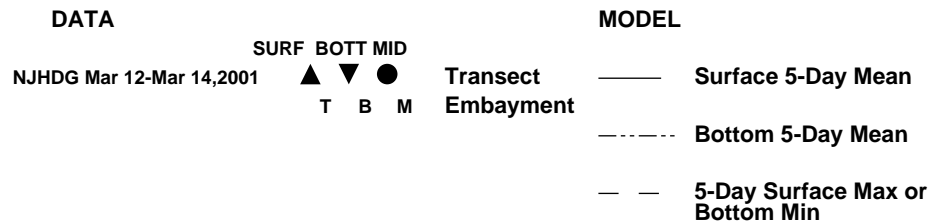
MILE FROM MOUTH PASSAIC RIVER

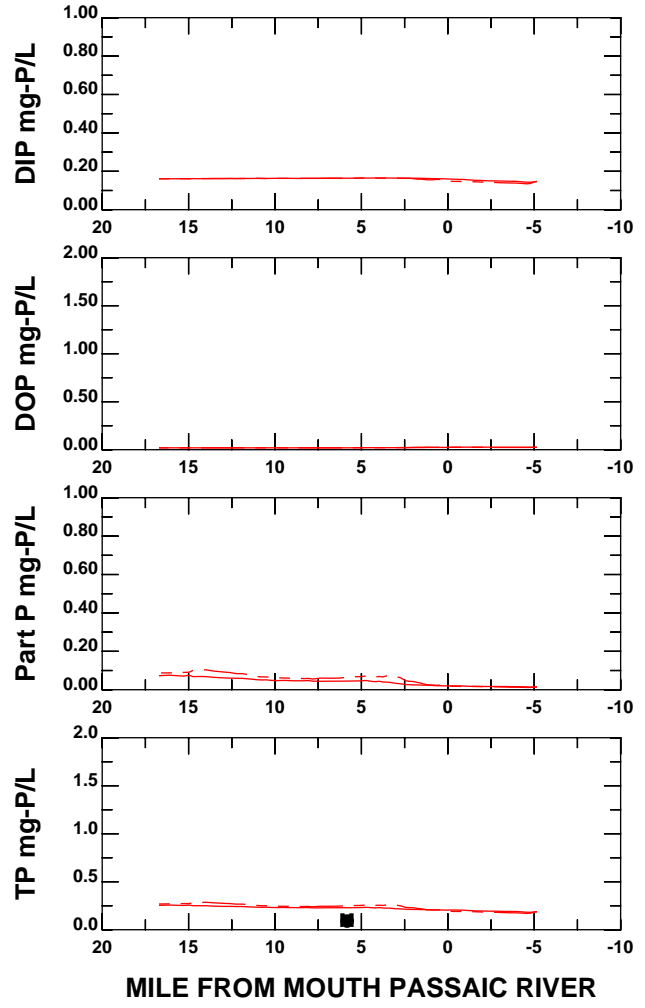
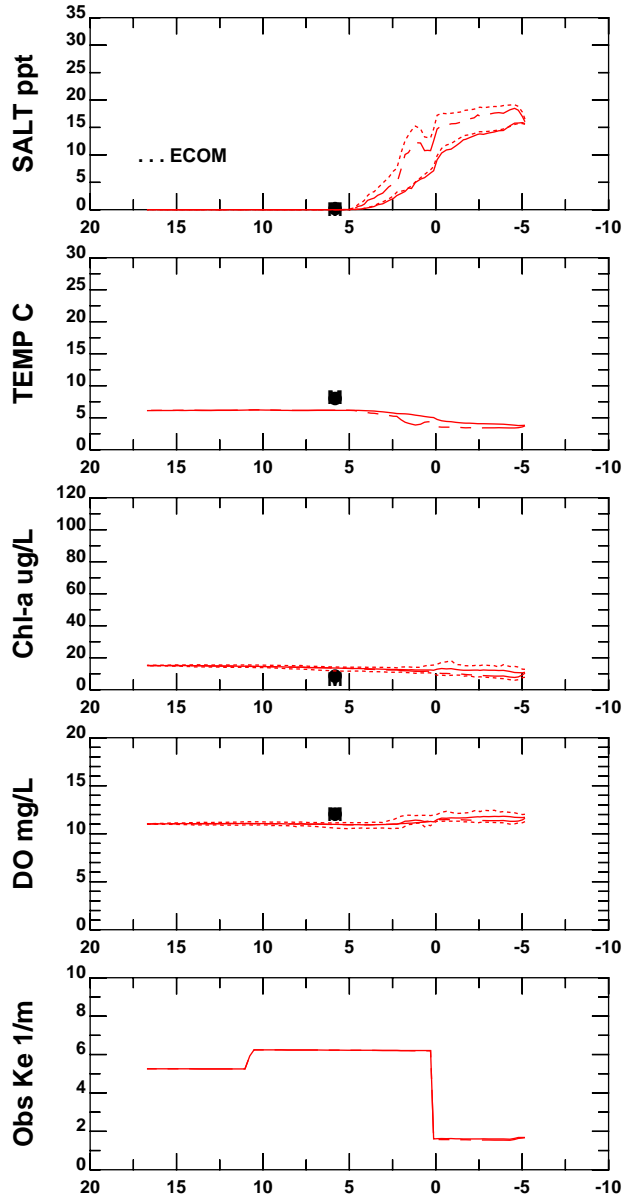
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER





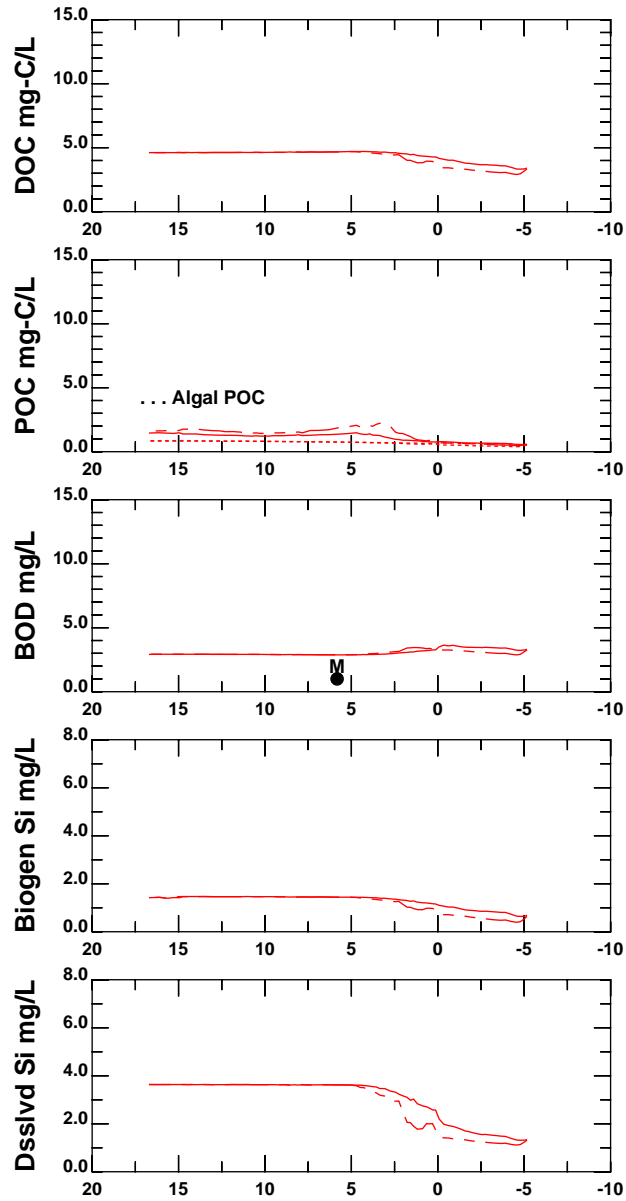
**DATA**  
NJHDG Mar 19,2001

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

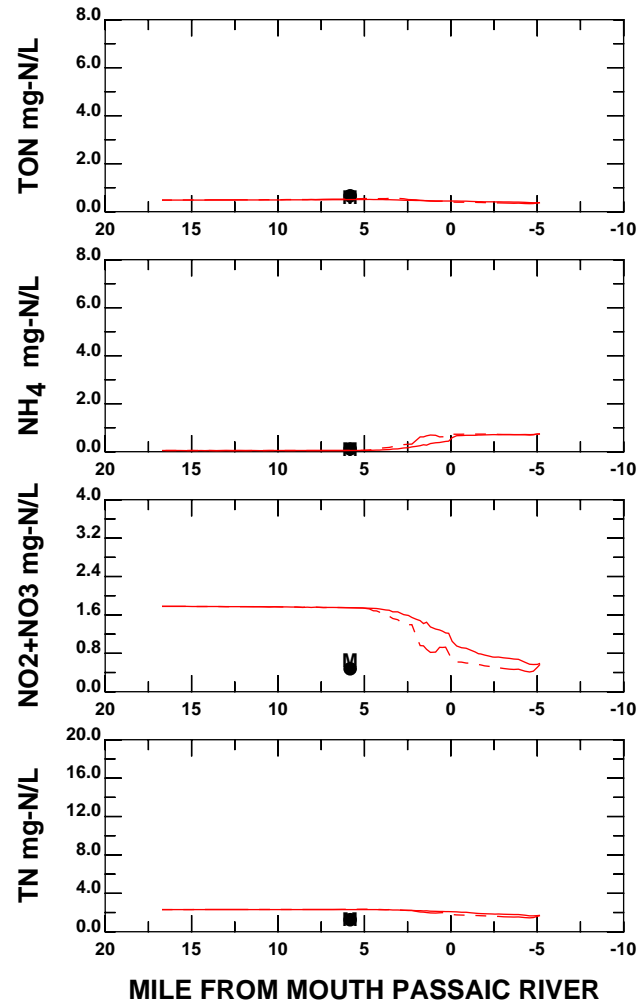
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Mar 19,2001

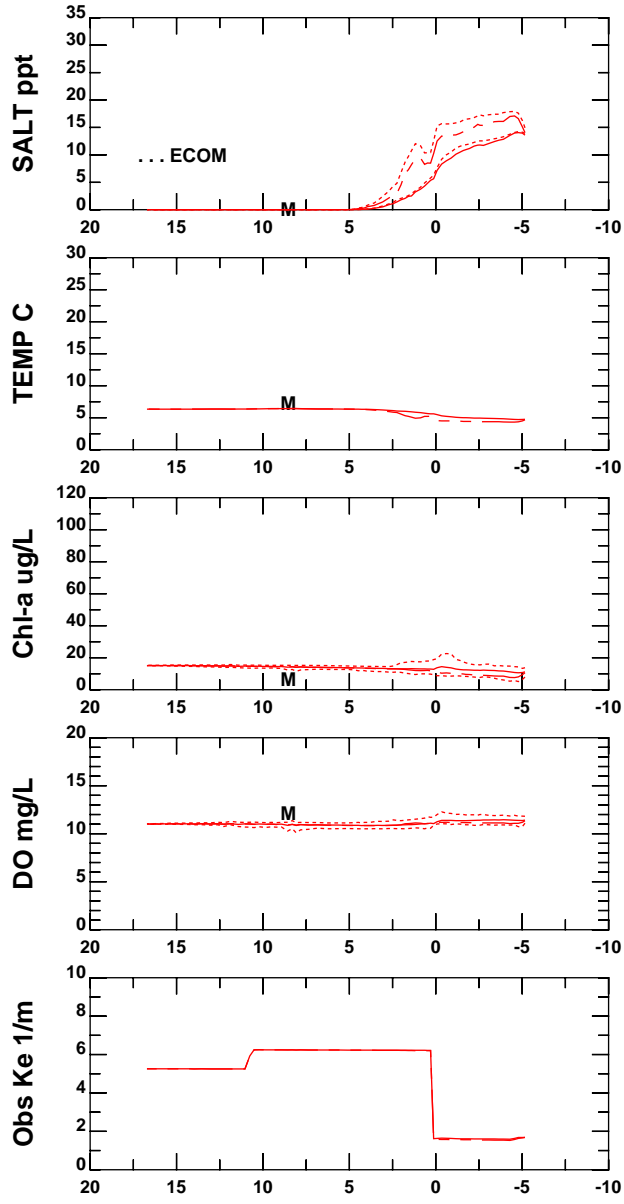
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

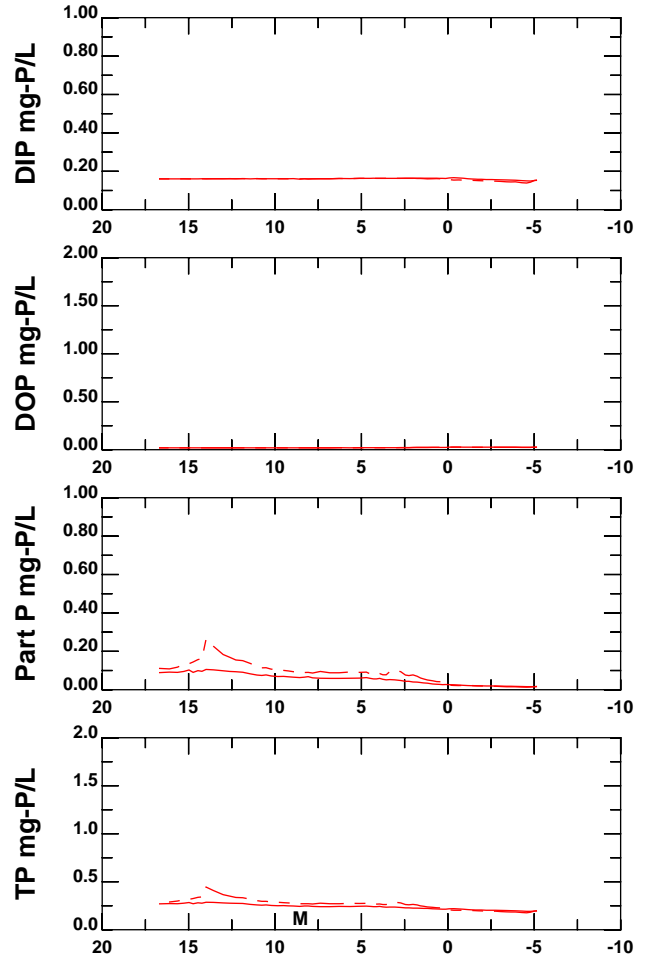
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



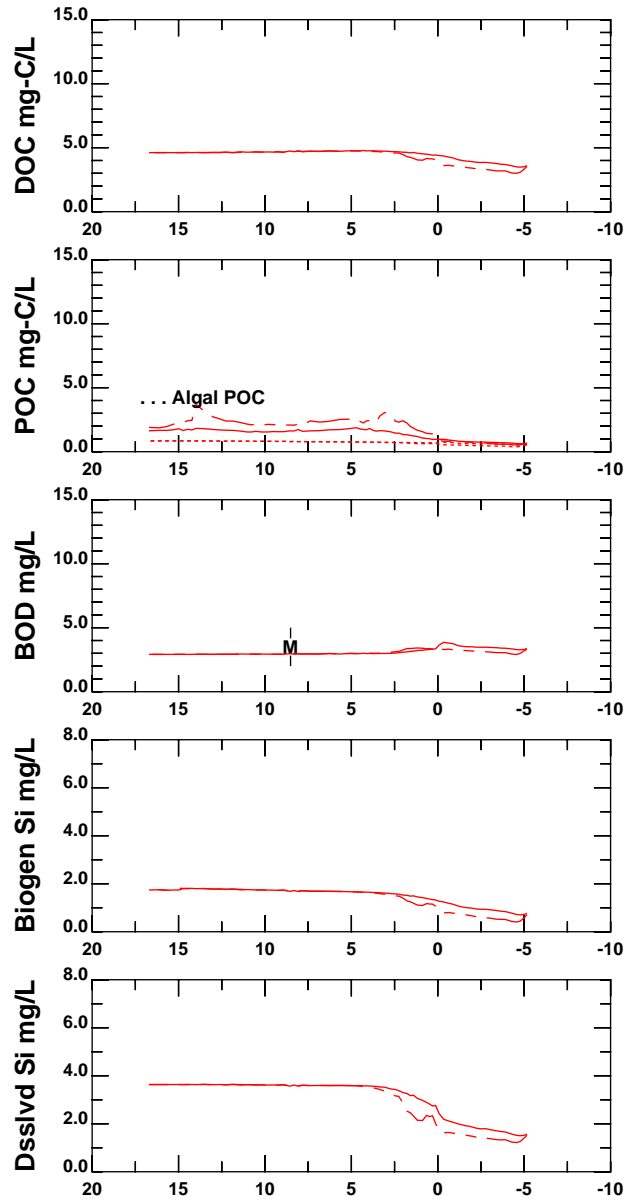
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Mar 22,2001

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

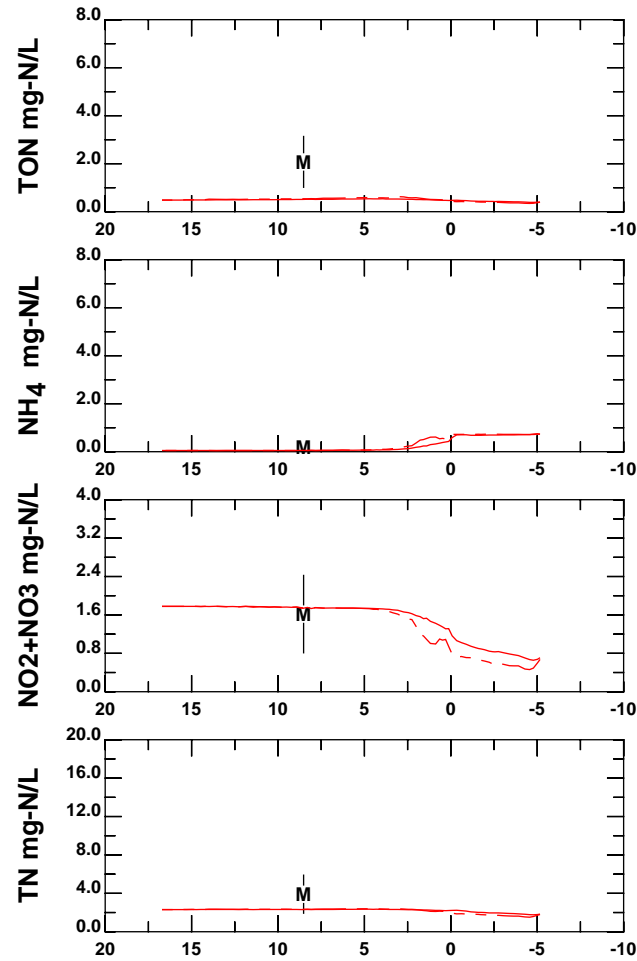
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

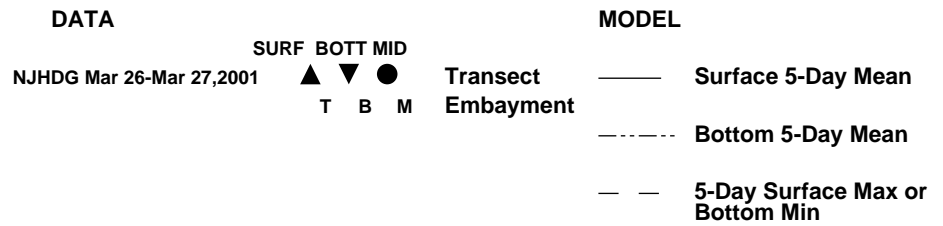
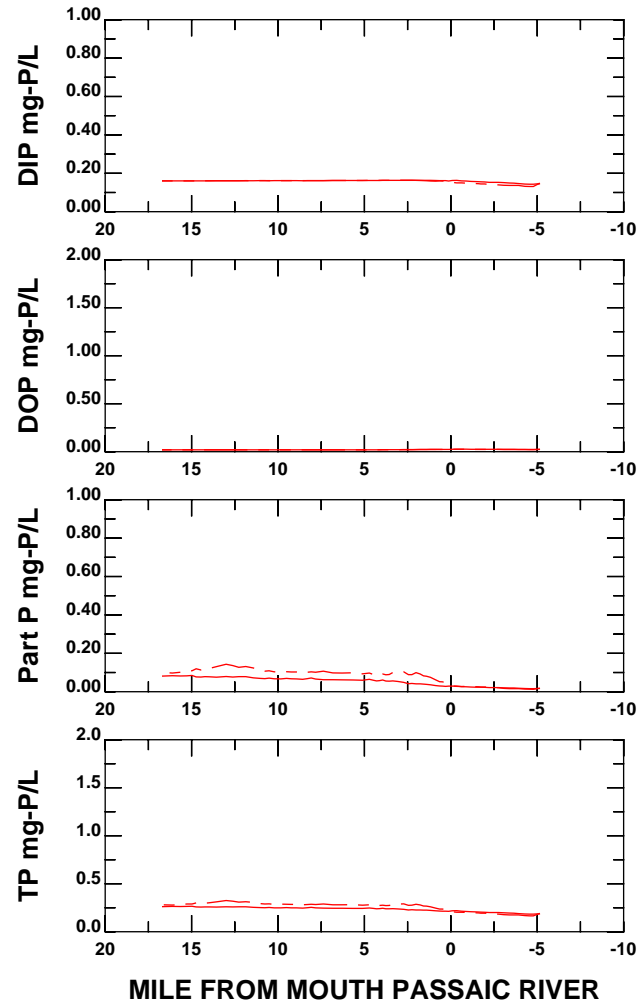
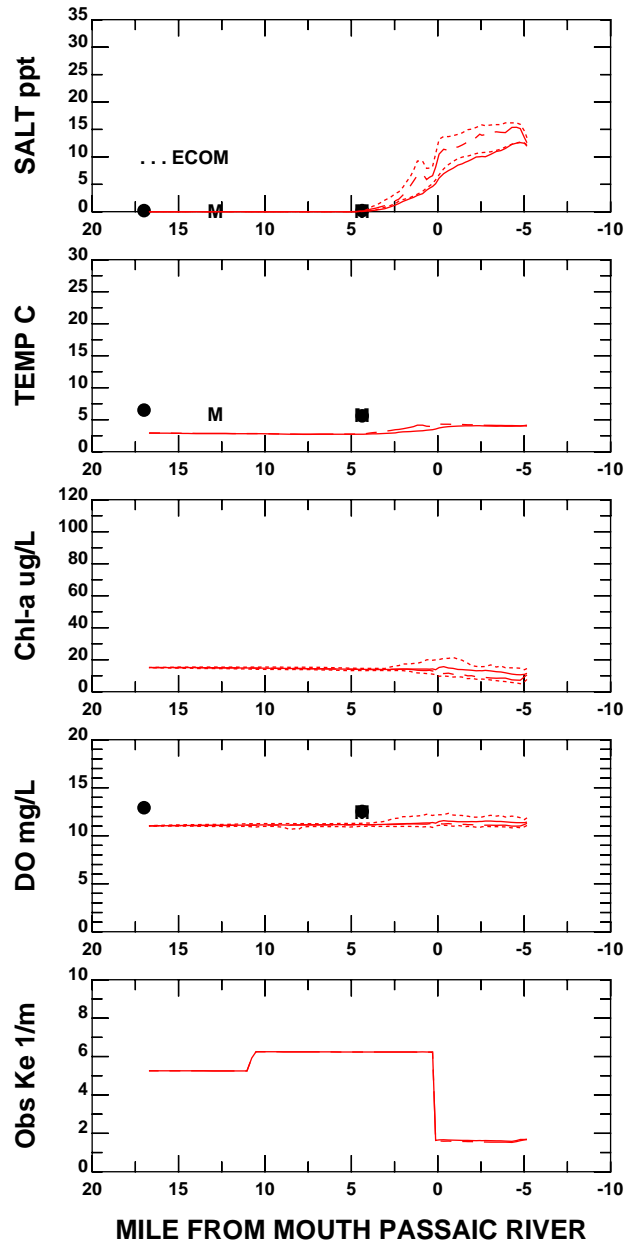
DATA  
NJHDG Mar 22,2001

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

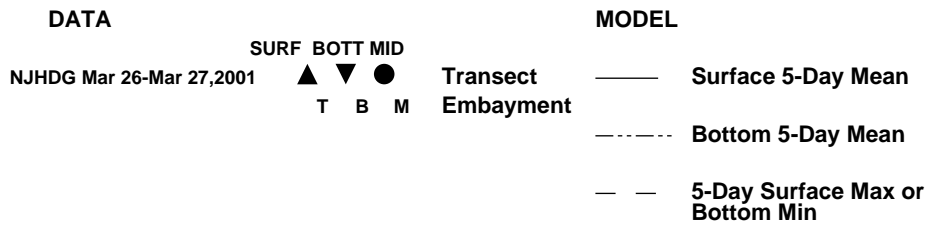
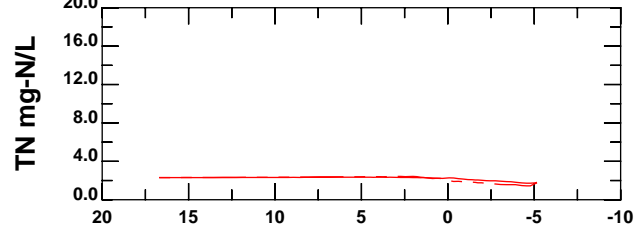
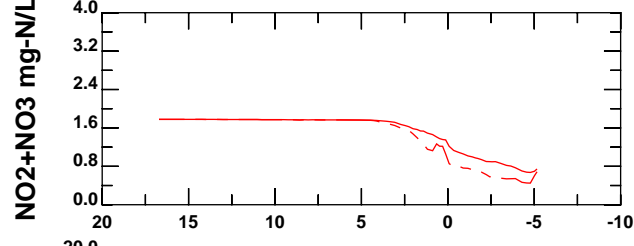
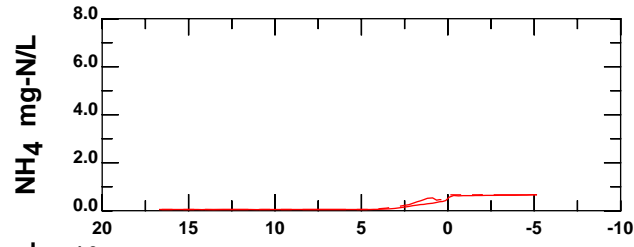
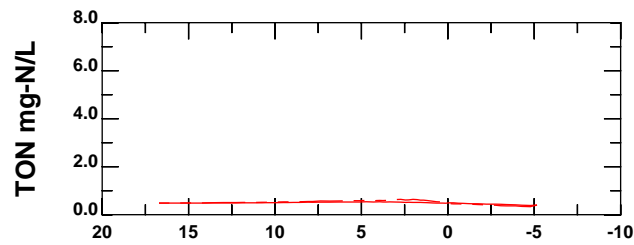
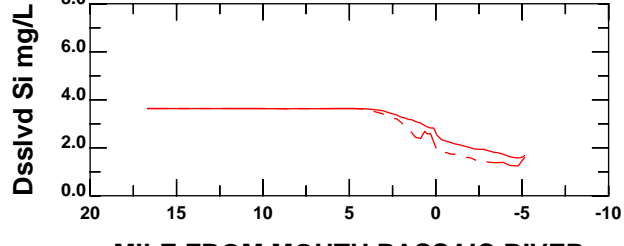
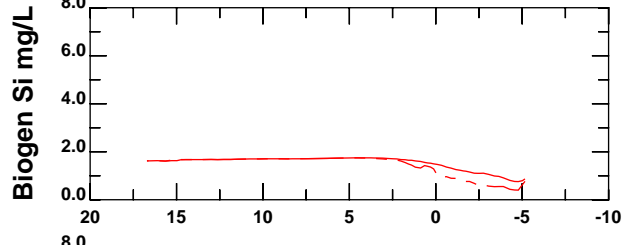
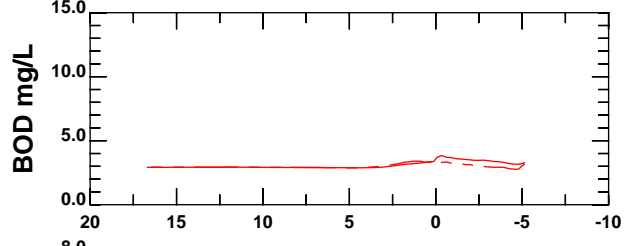
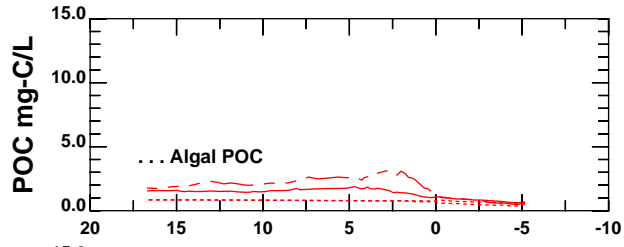
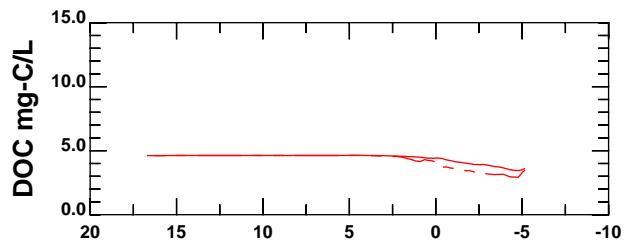
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

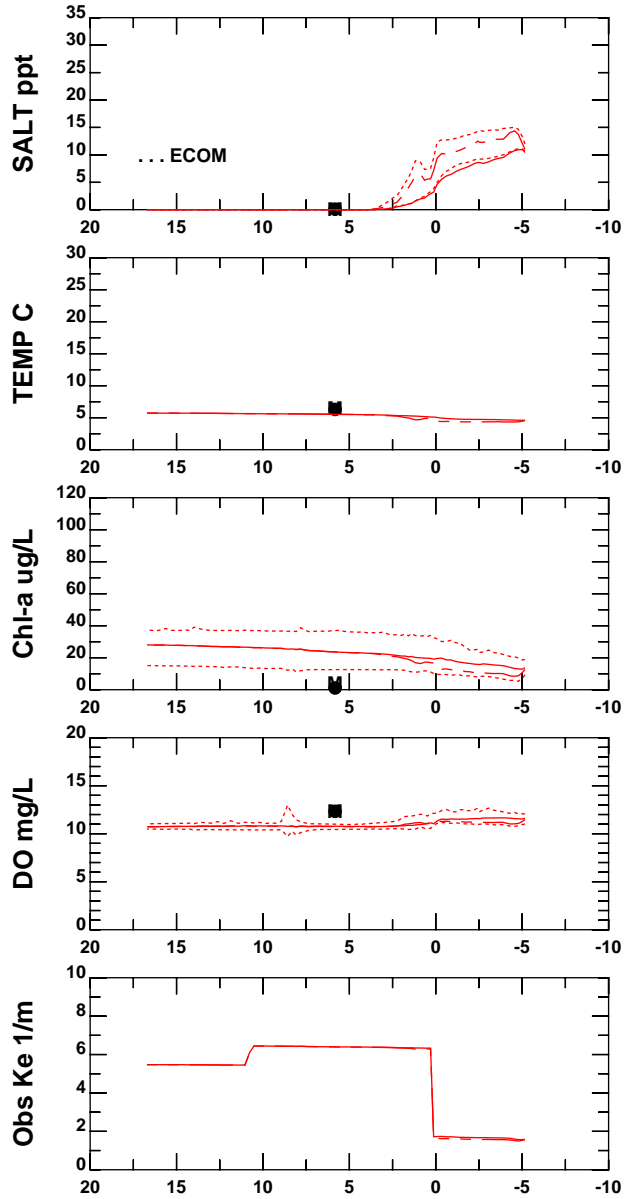


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

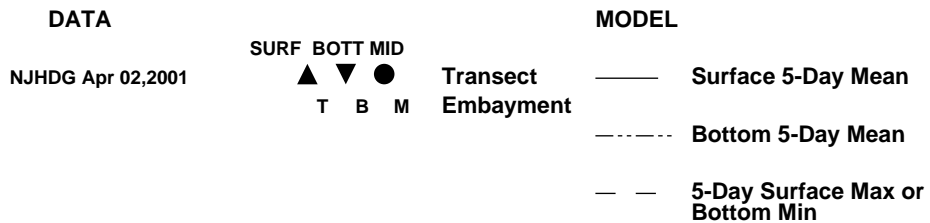
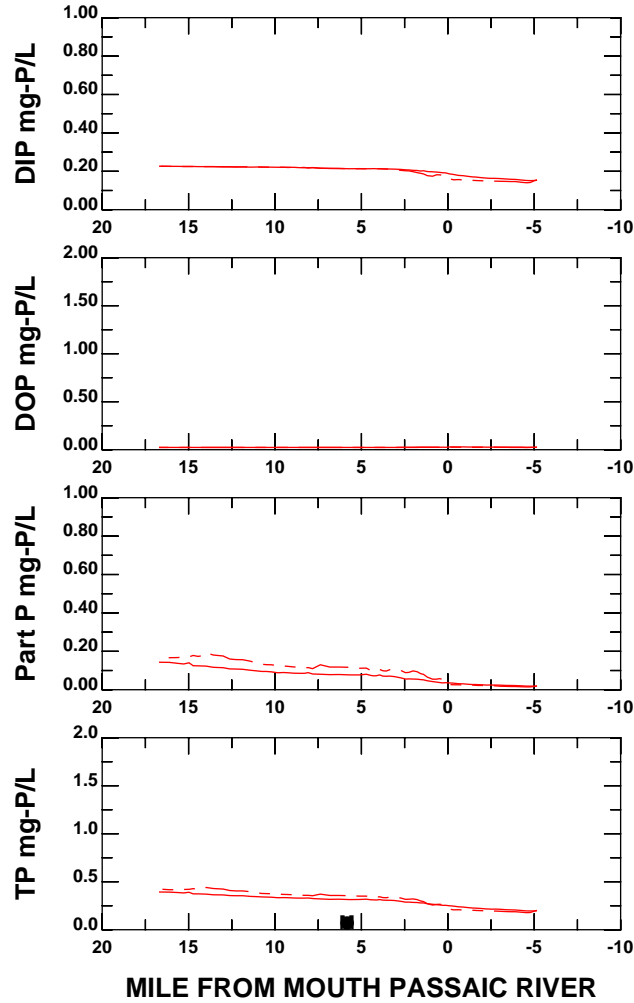


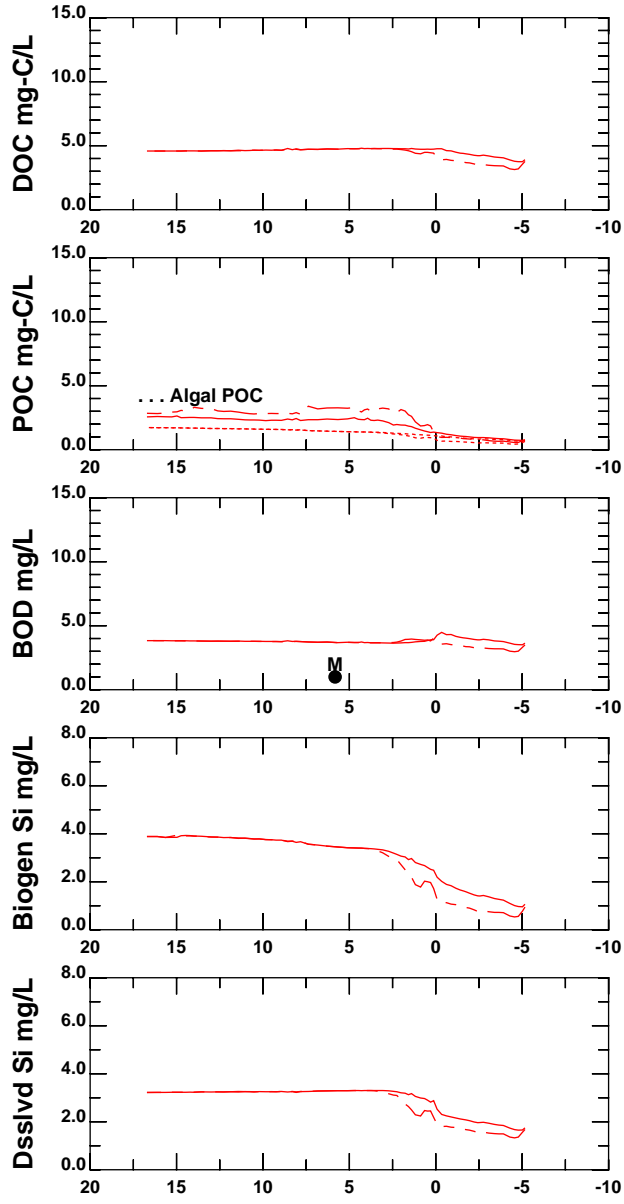


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

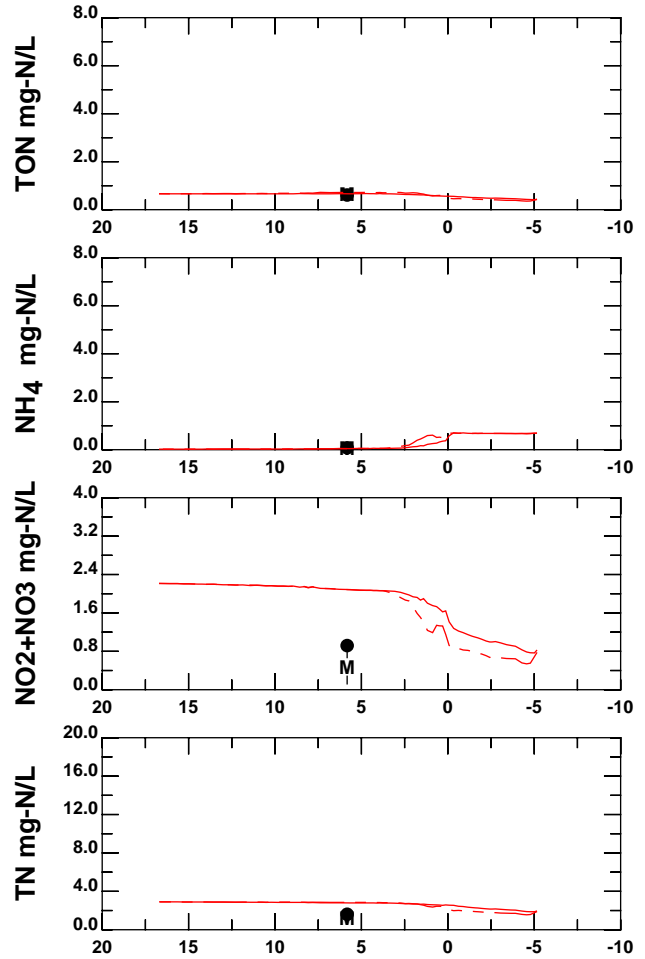




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



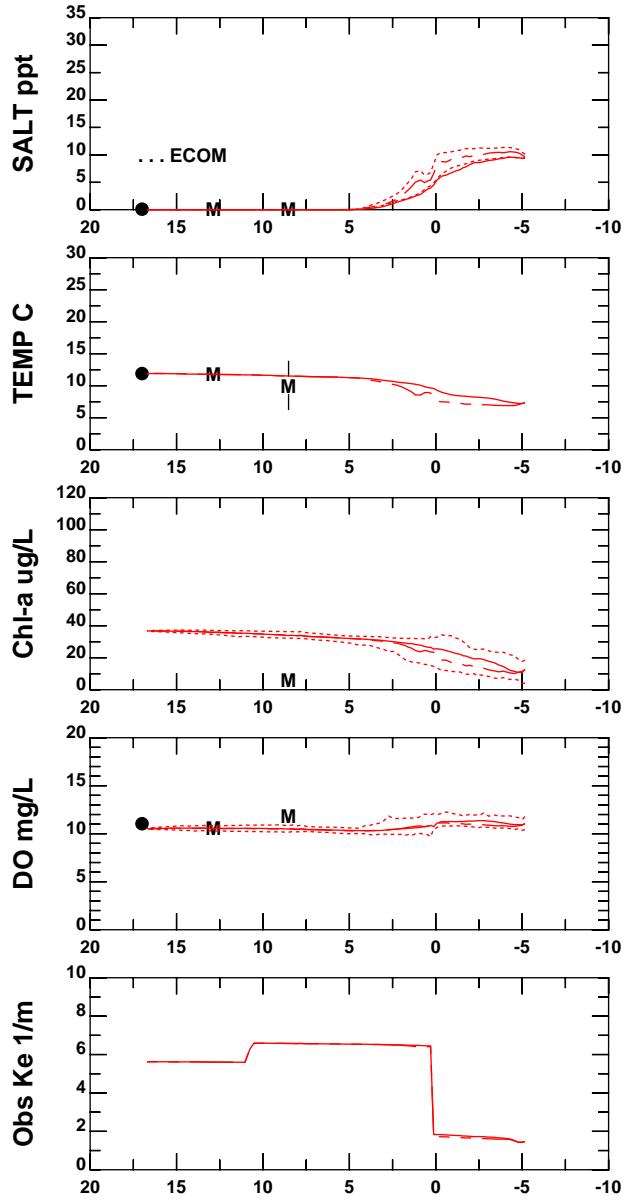
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Apr 02,2001

MODEL

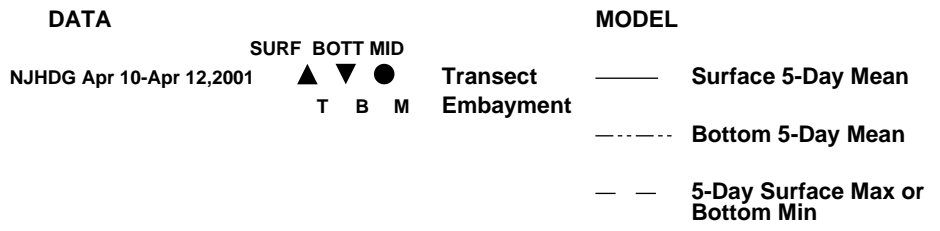
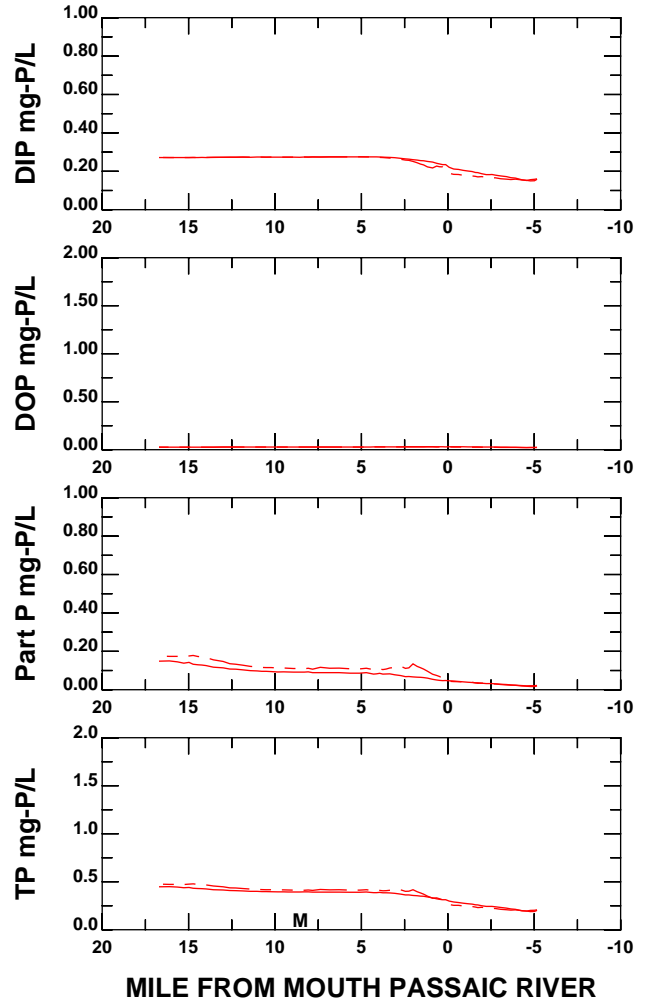
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

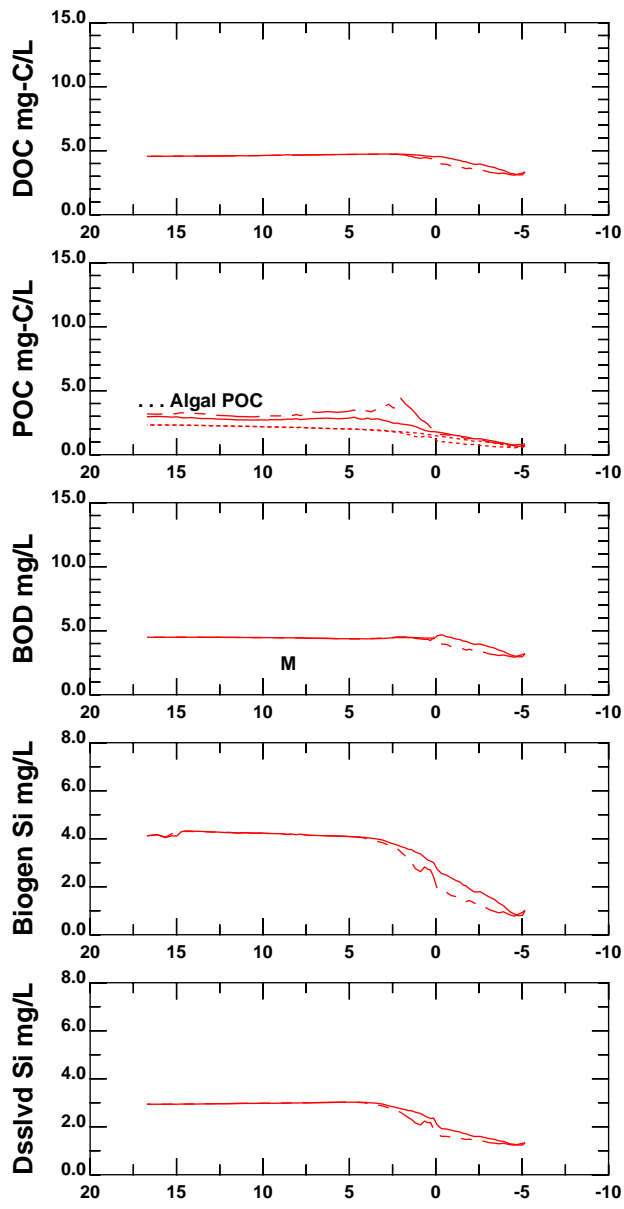
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



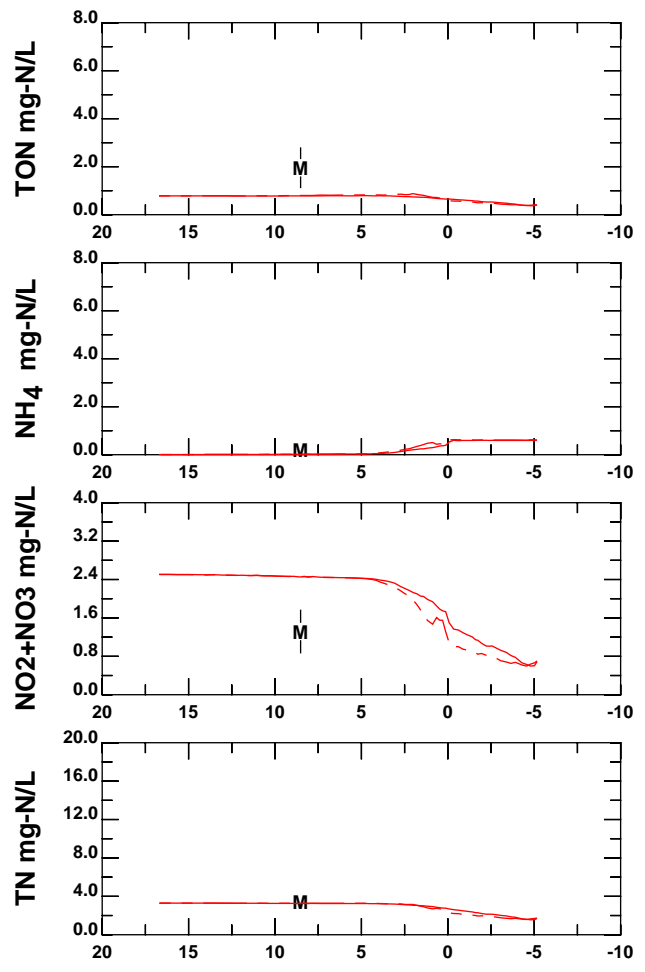
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

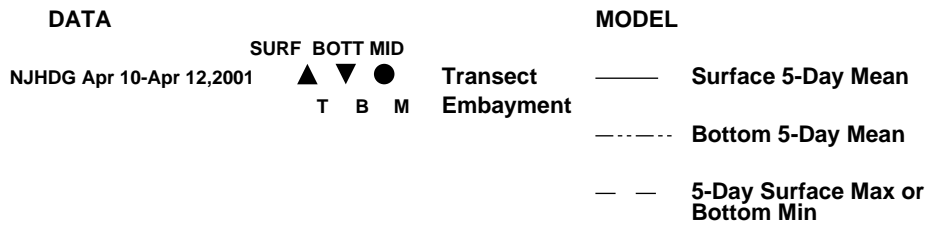




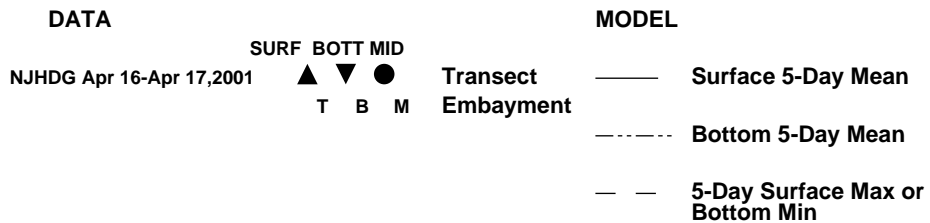
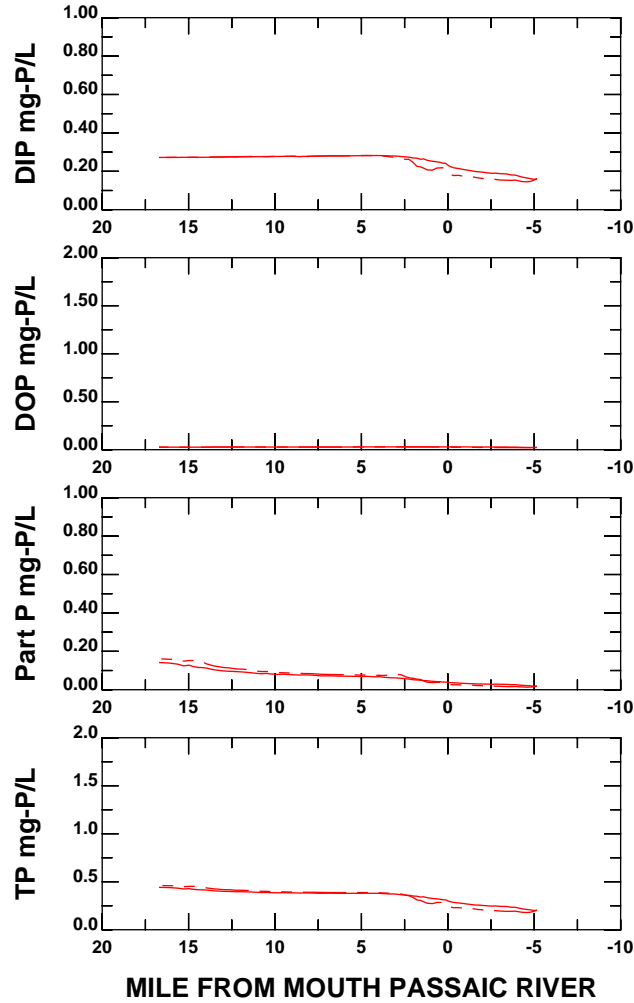
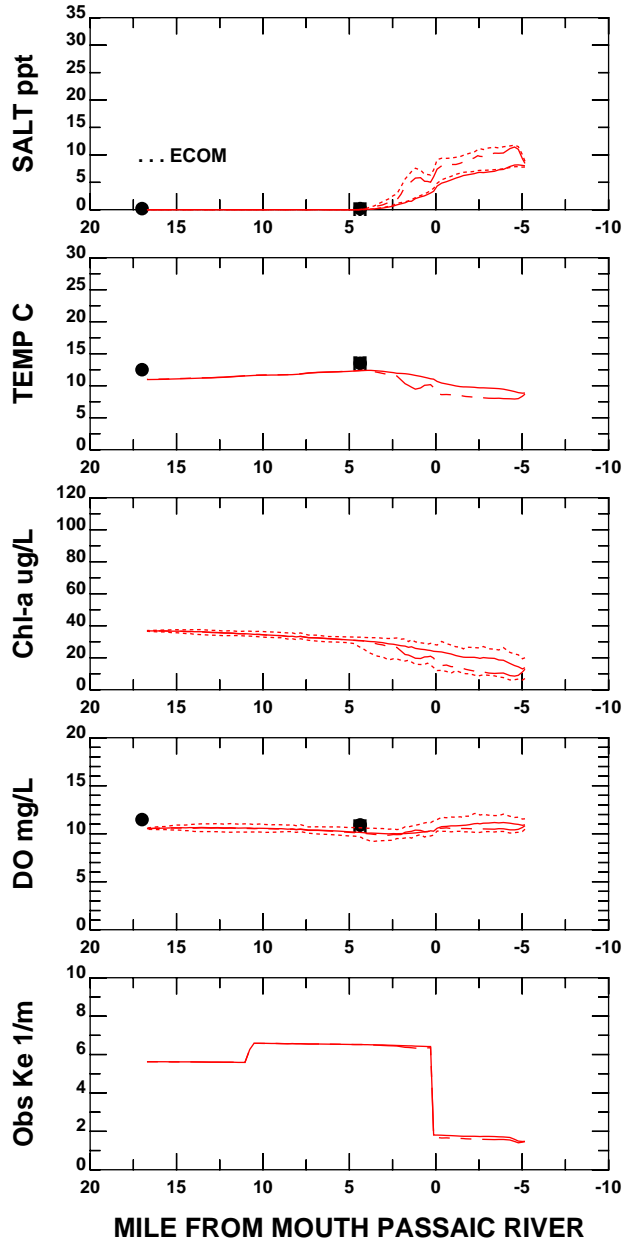
MILE FROM MOUTH PASSAIC RIVER



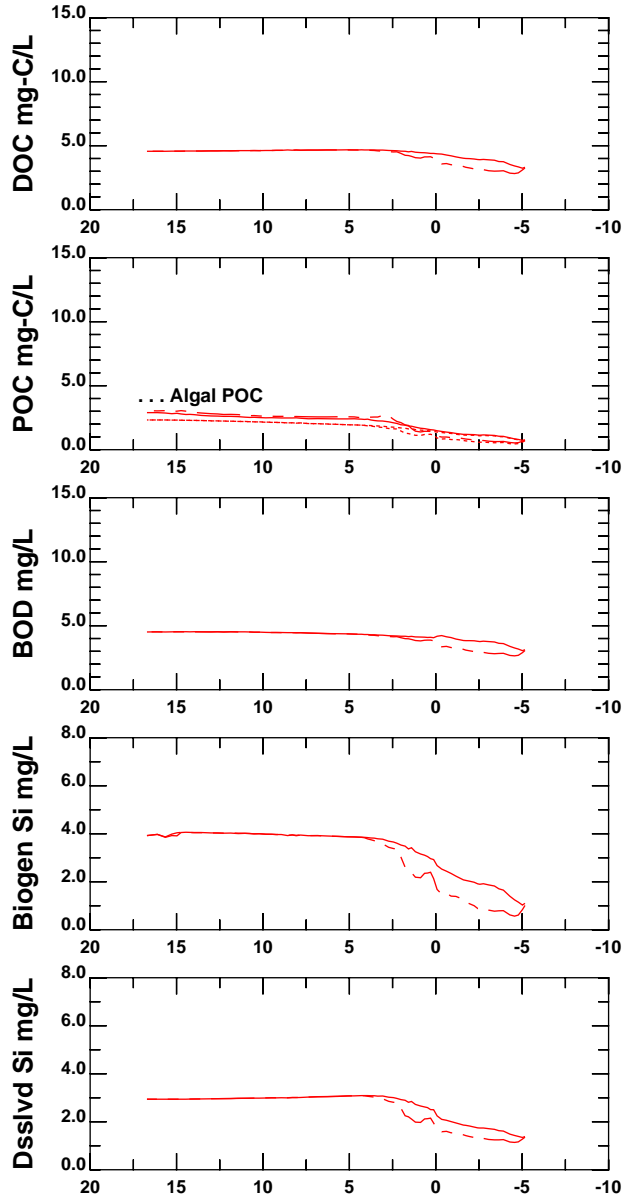
MILE FROM MOUTH PASSAIC RIVER



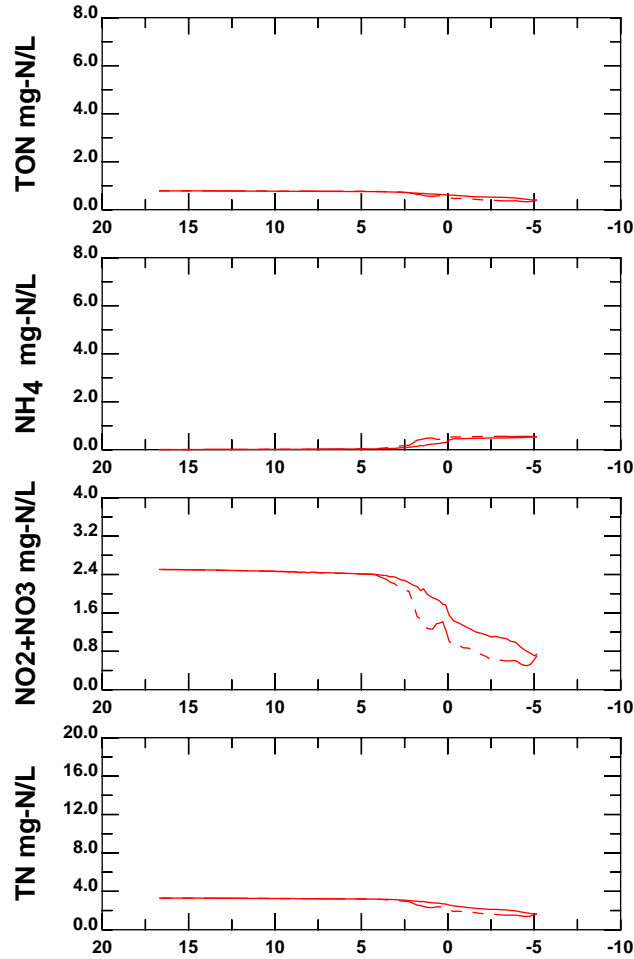
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



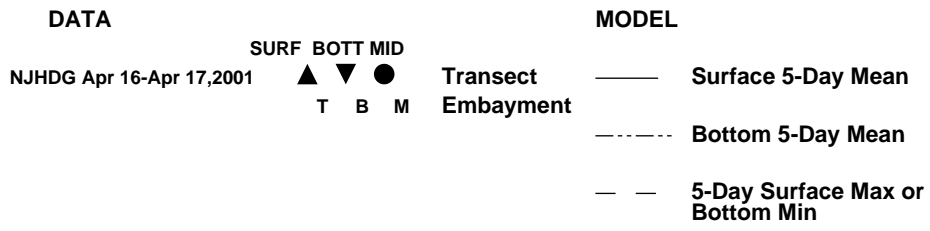
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



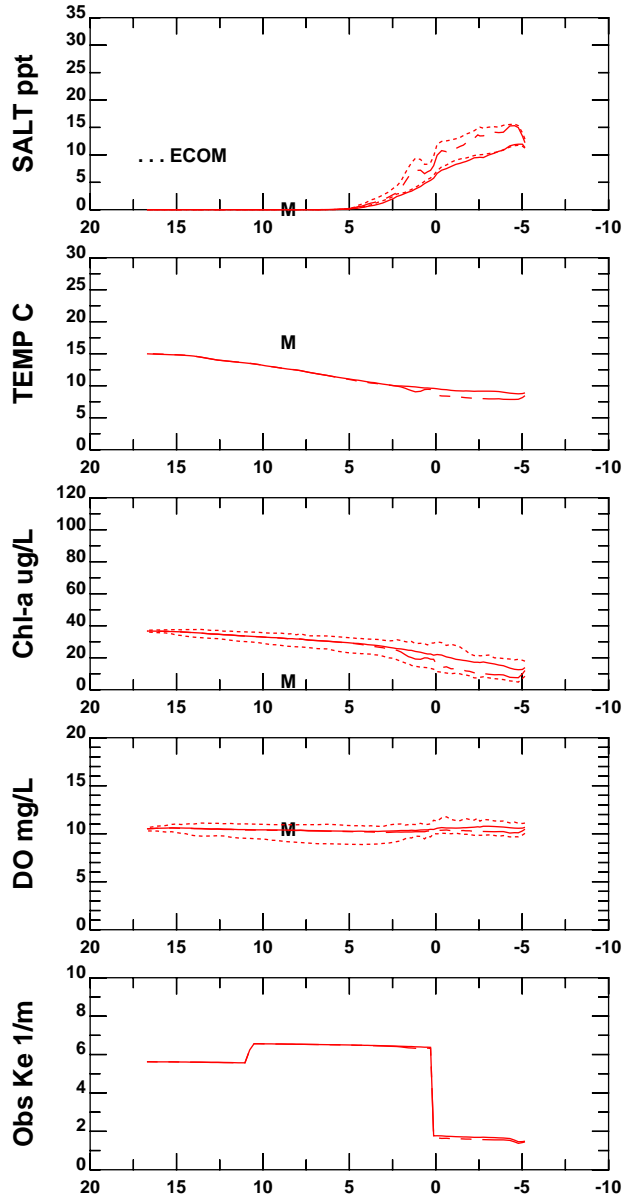
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

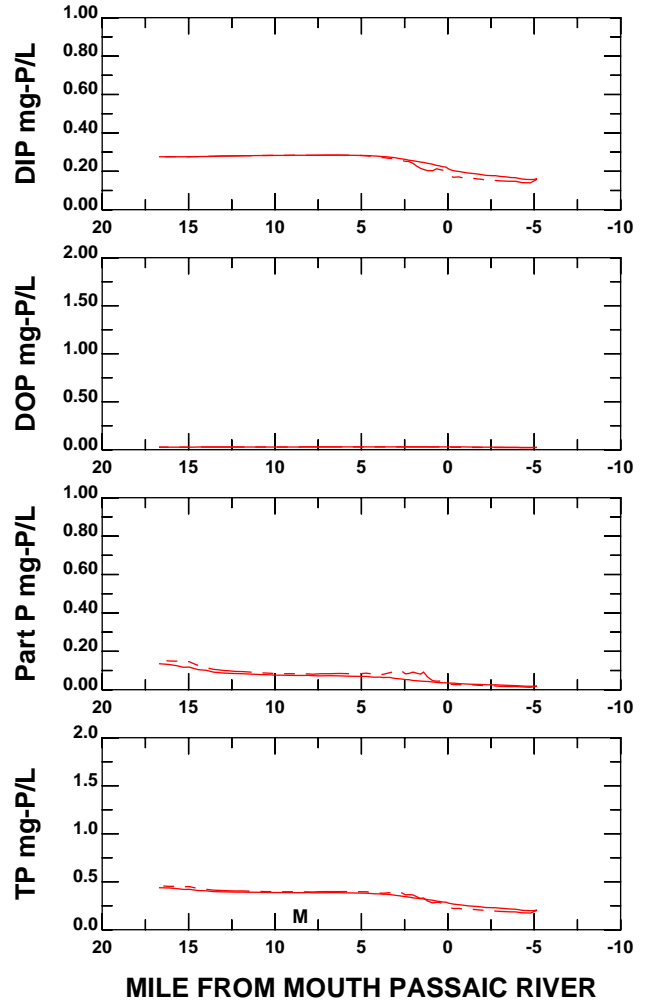


**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001

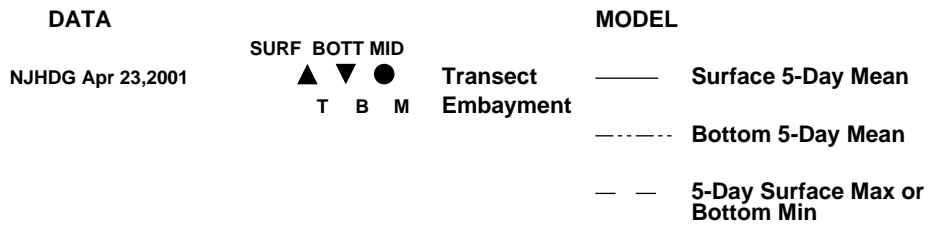


MILE FROM MOUTH PASSAIC RIVER

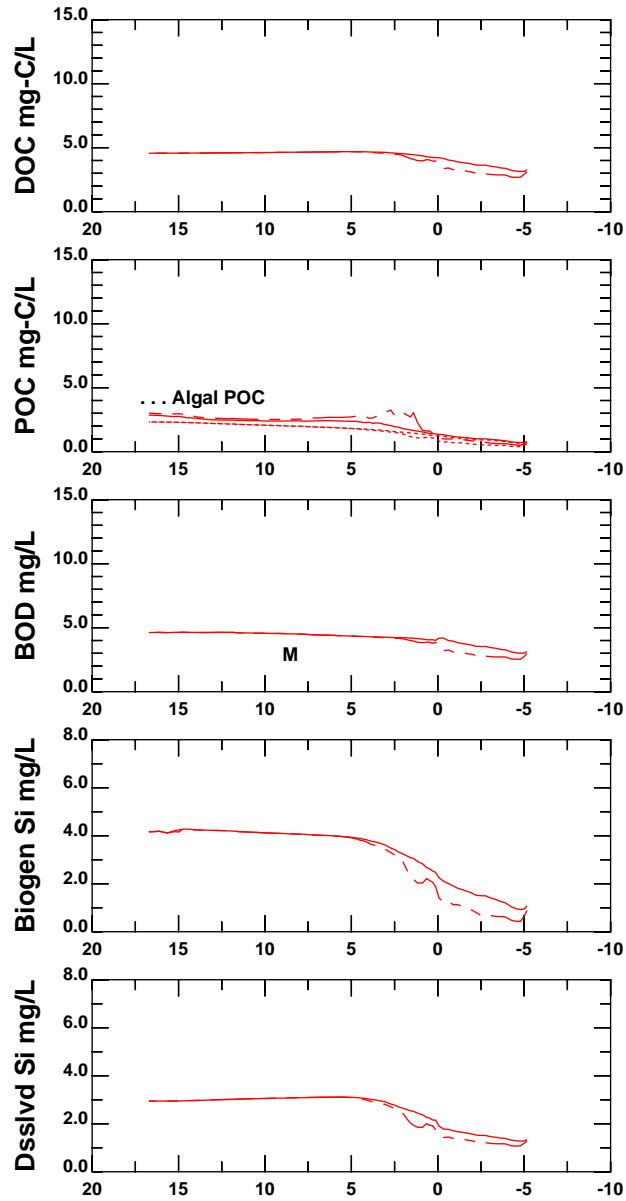
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



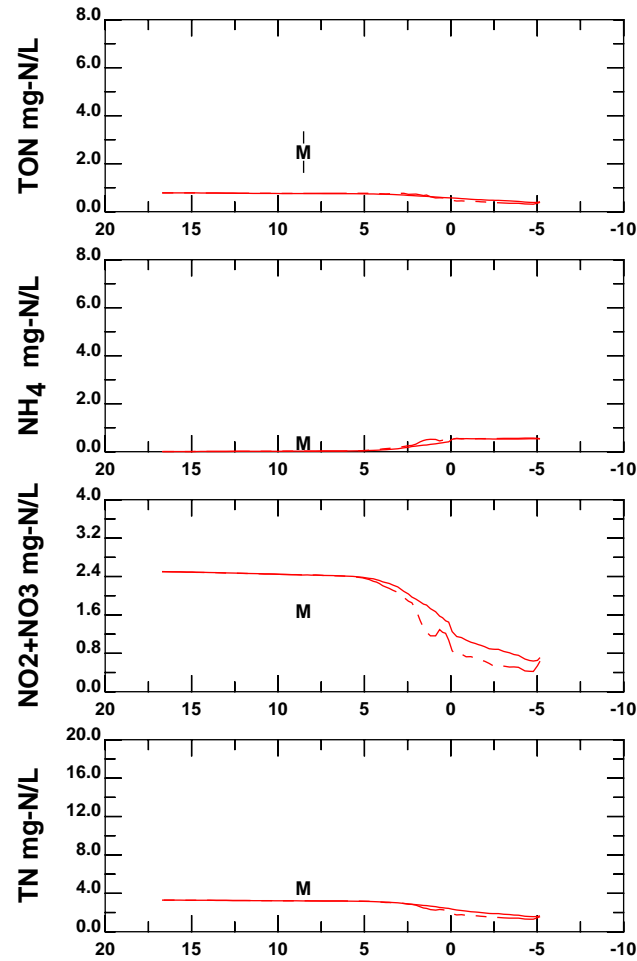
MILE FROM MOUTH PASSAIC RIVER







MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Apr 23,2001

SURF BOTT MID

▲ ▼ ●  
T B M

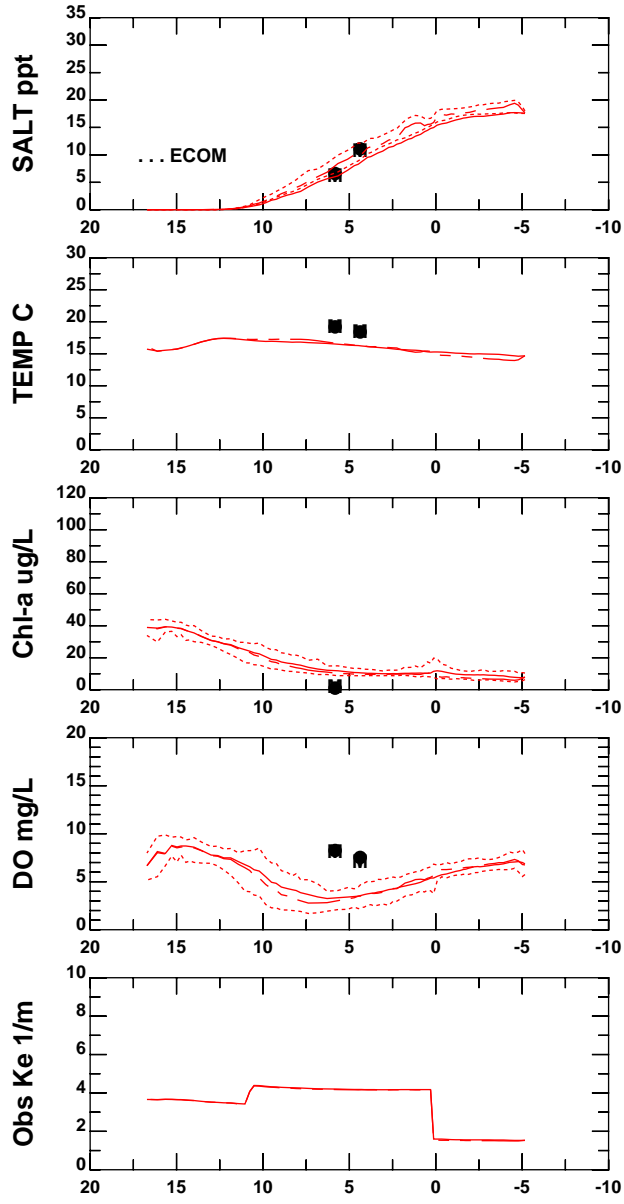
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

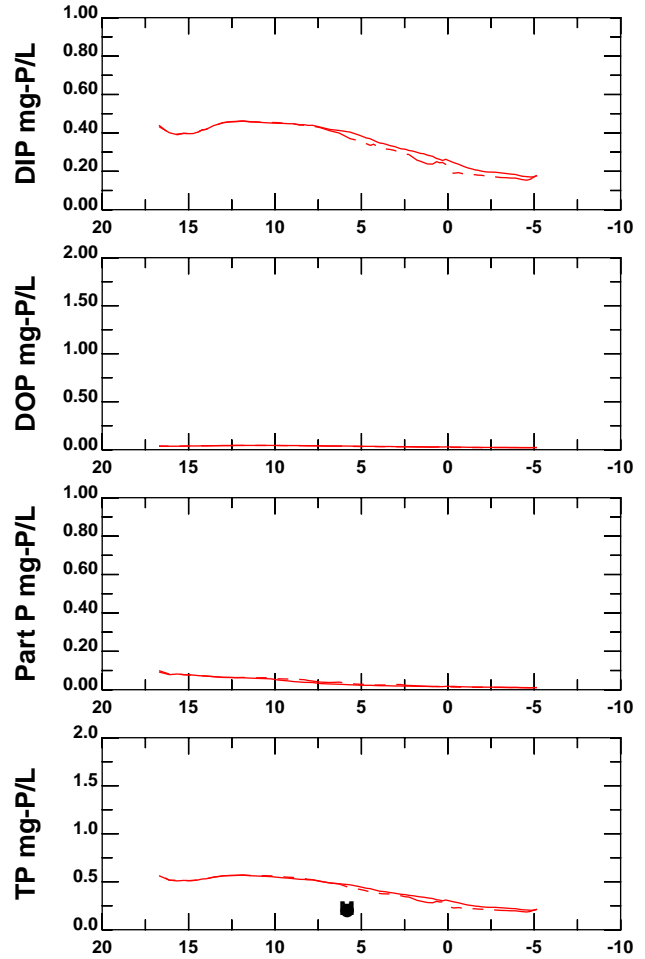
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

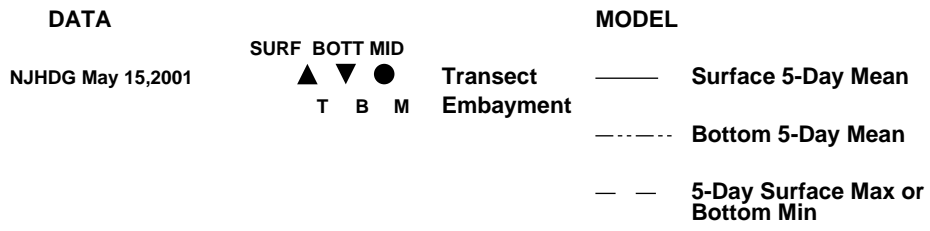


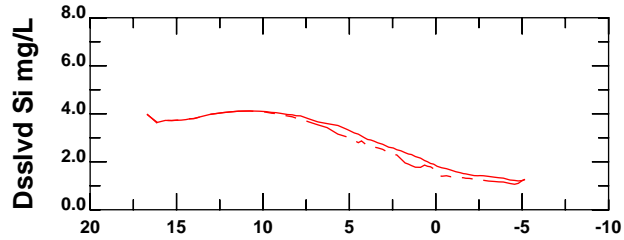
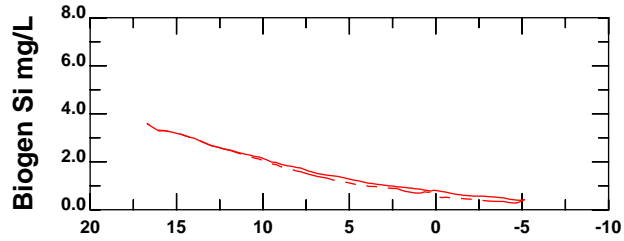
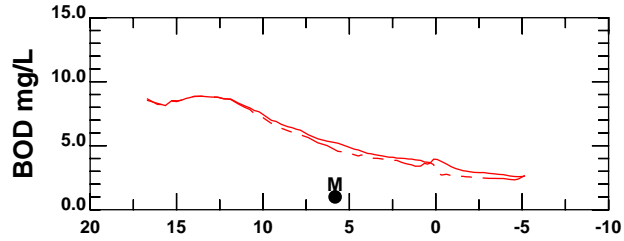
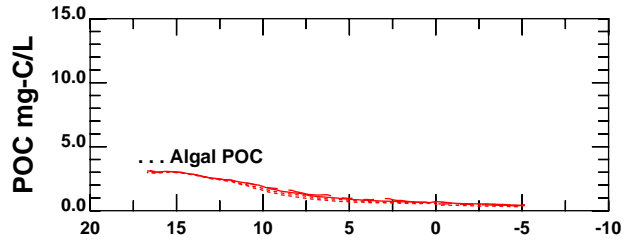
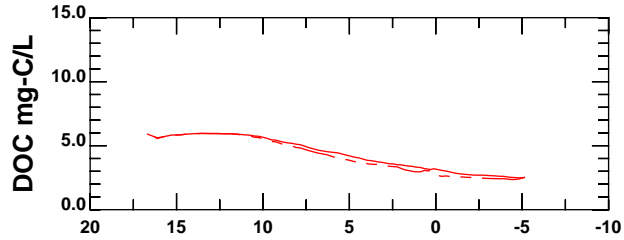
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

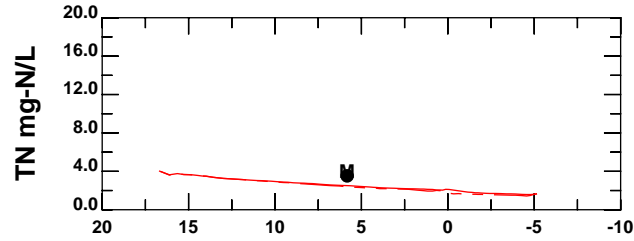
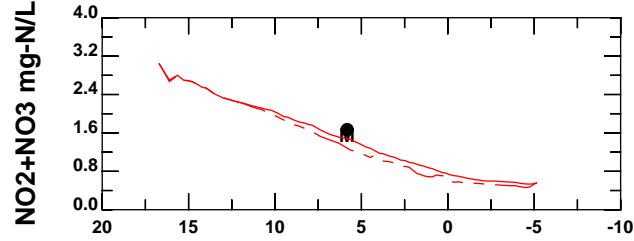
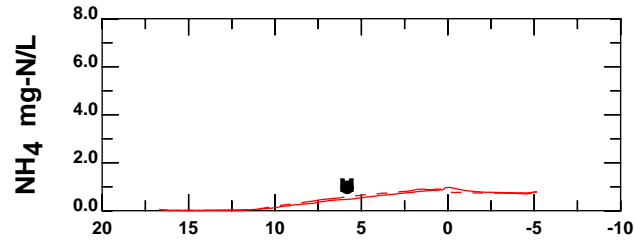
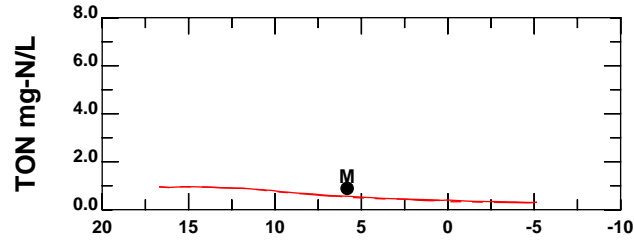


MILE FROM MOUTH PASSAIC RIVER





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHGD May 15,2001

SURF BOTT MID

▲ ▼ ●  
T B M

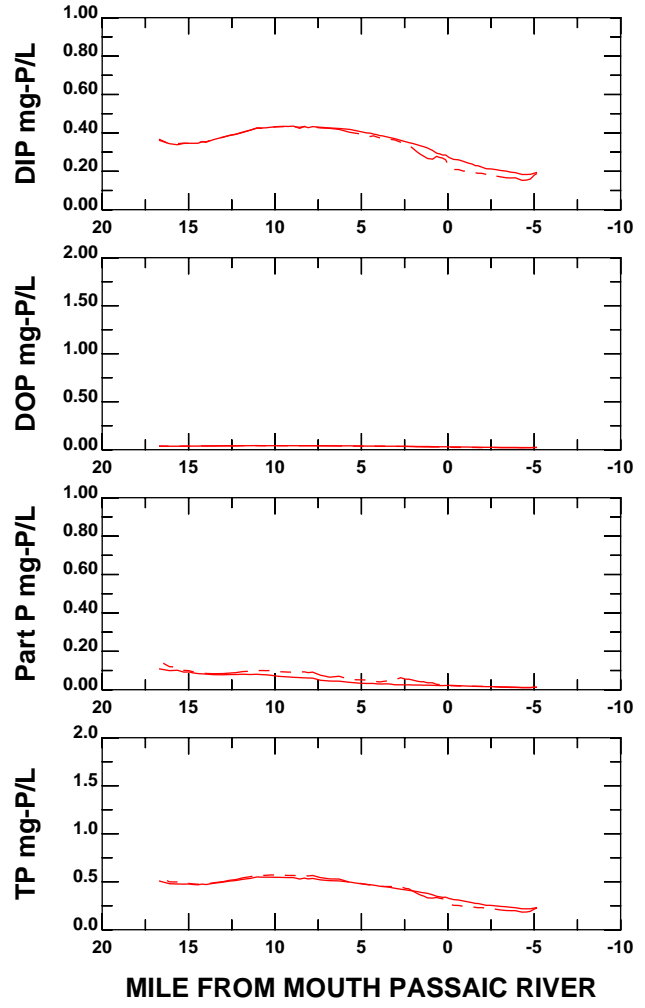
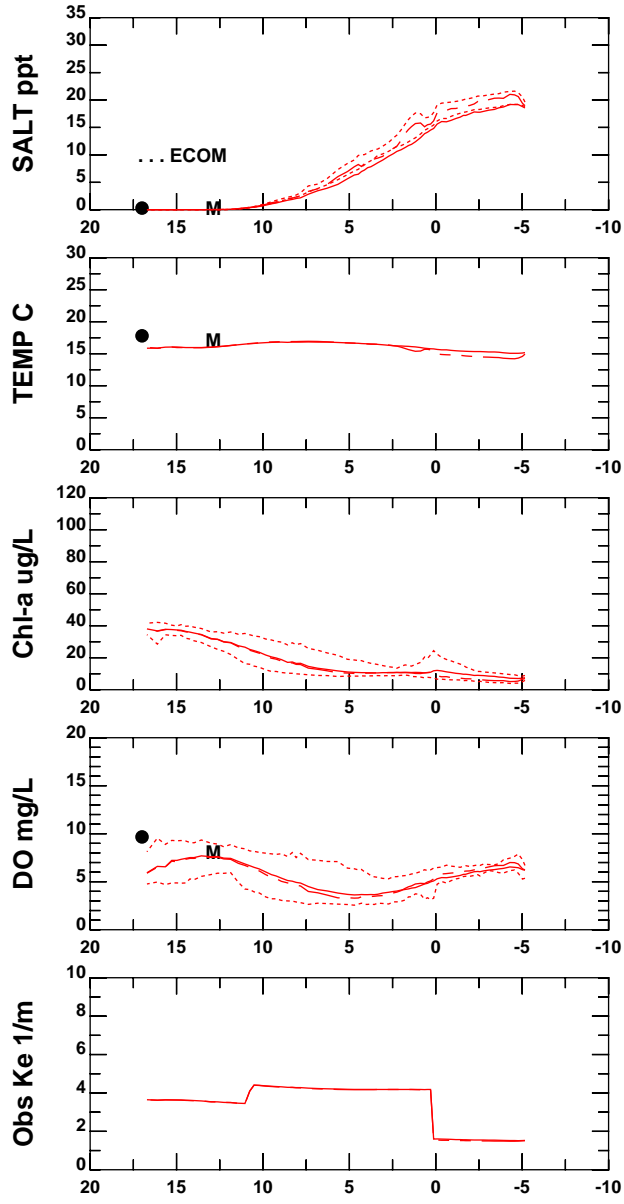
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



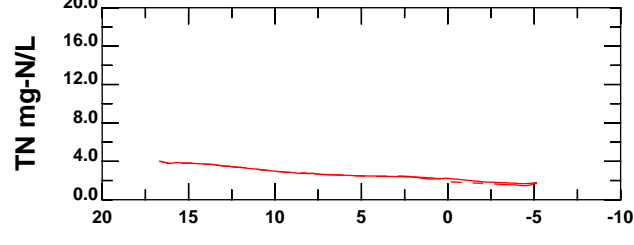
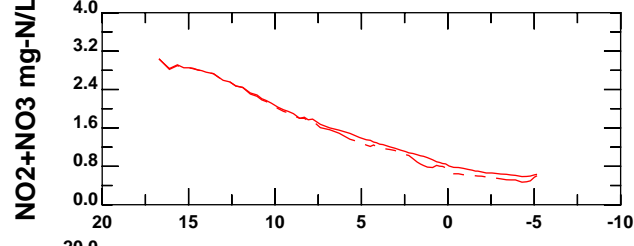
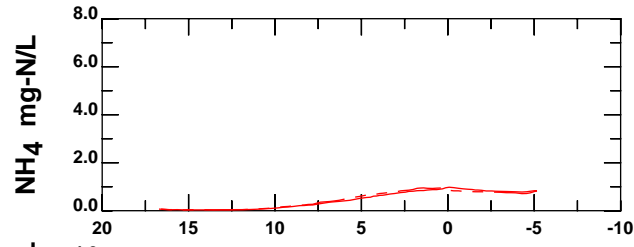
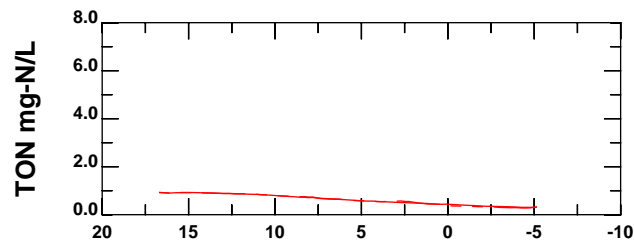
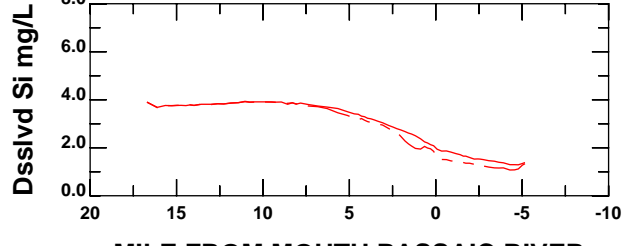
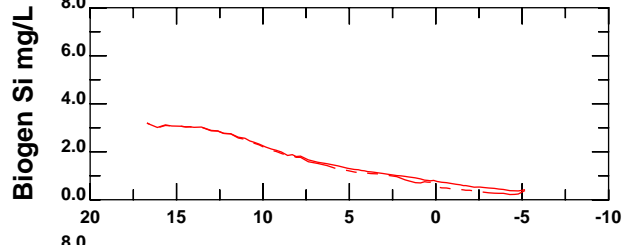
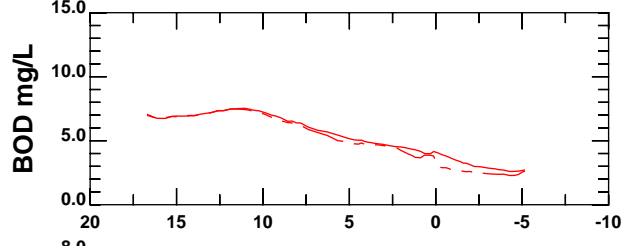
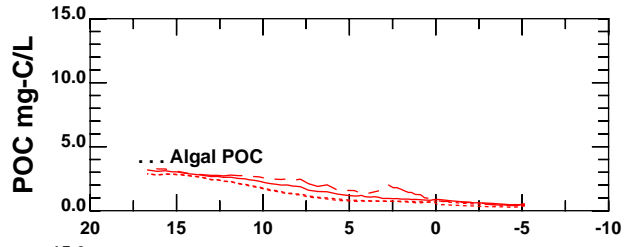
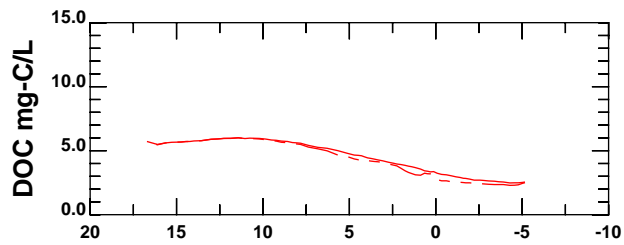
**DATA**  
NJHDG May 24,2001

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



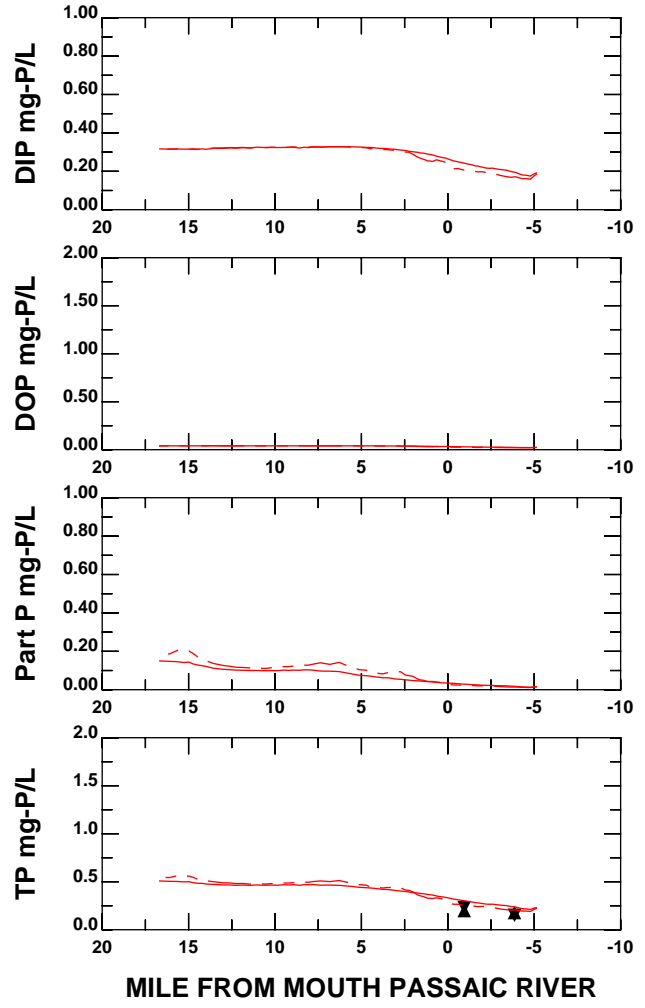
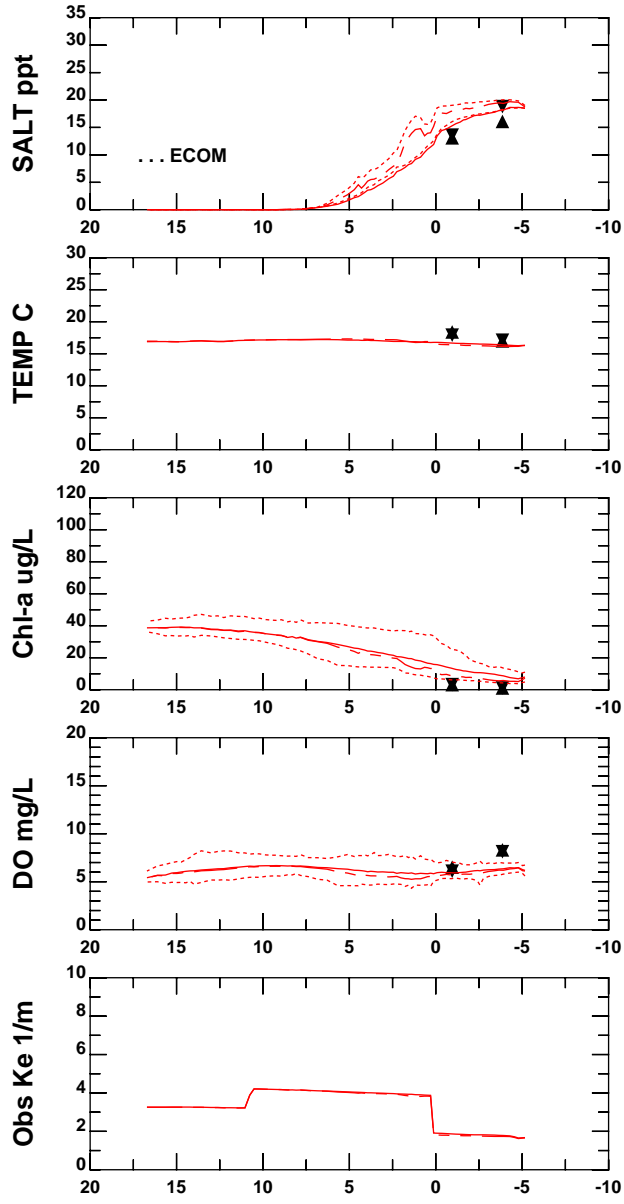
DATA  
NJHGD May 24,2001

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



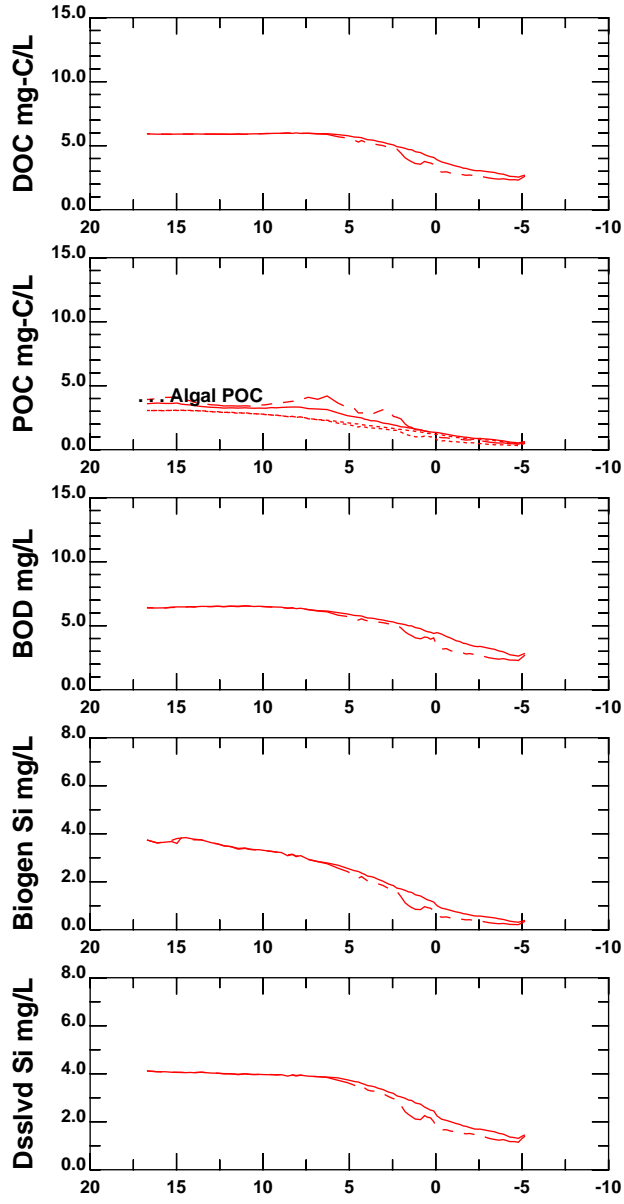
**DATA**  
NJHDG May 31,2001

**MODEL**

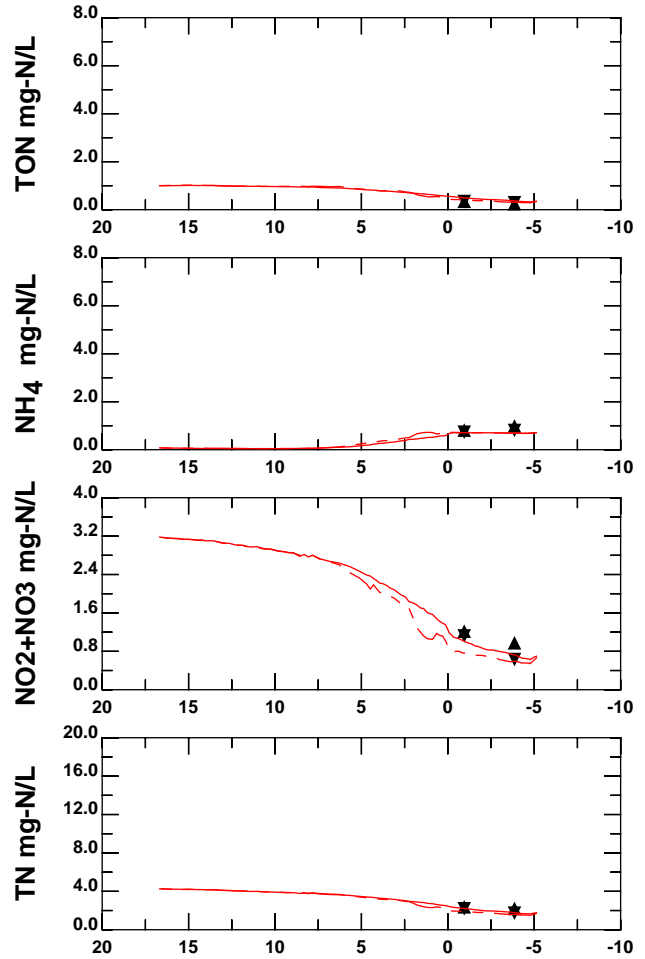
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER



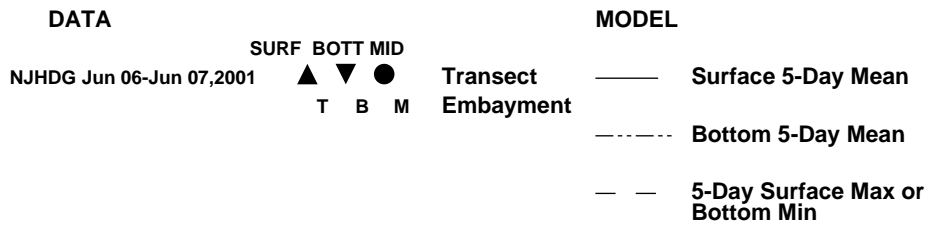
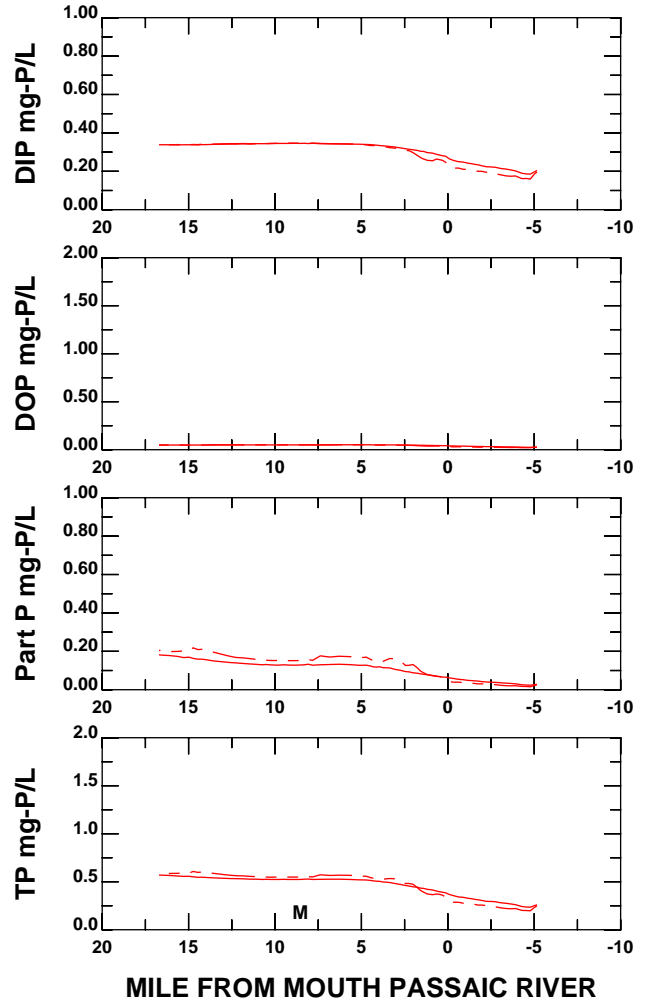
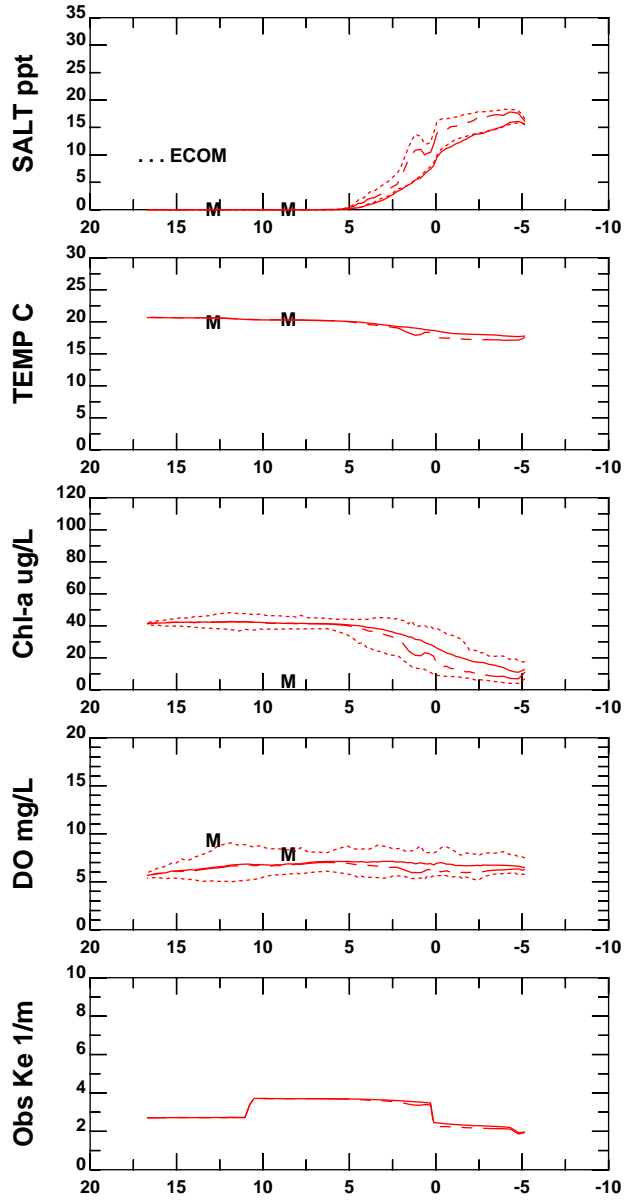
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG May 31,2001

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

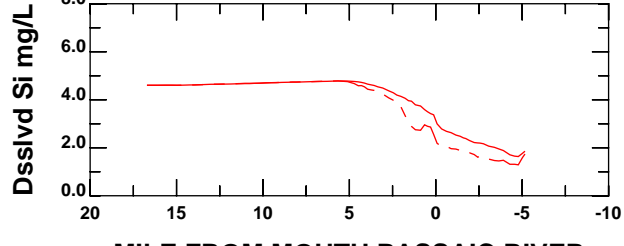
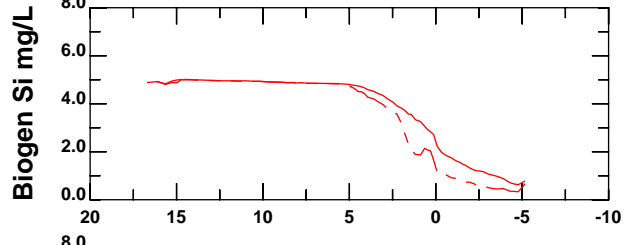
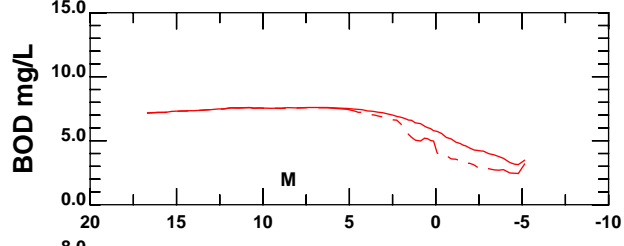
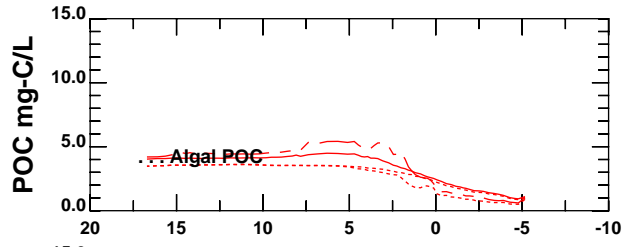
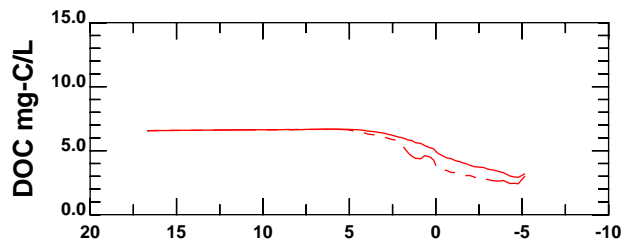
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

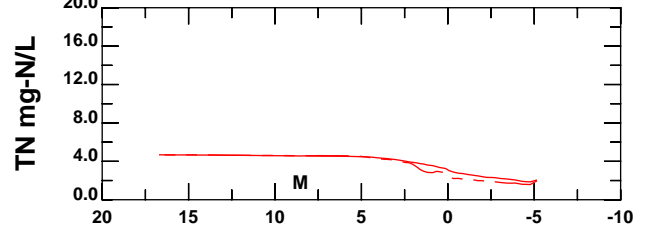
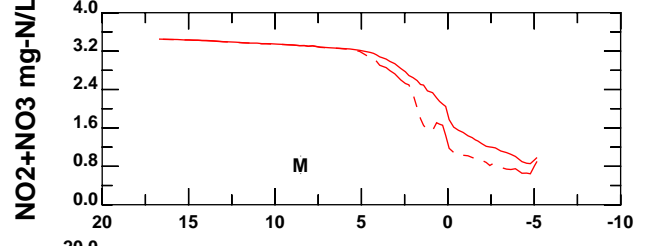
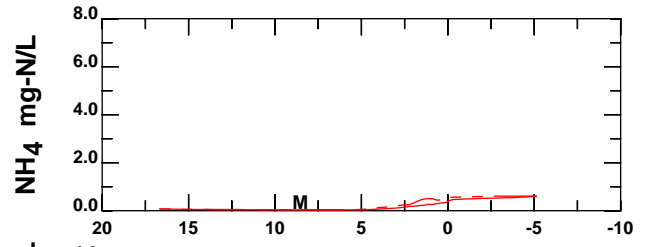
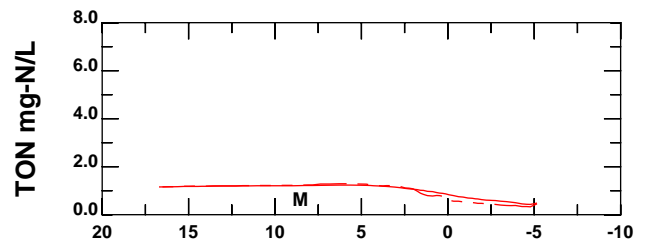




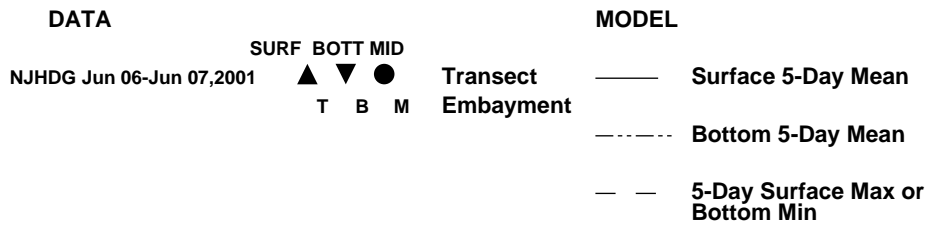
MILE FROM MOUTH PASSAIC RIVER

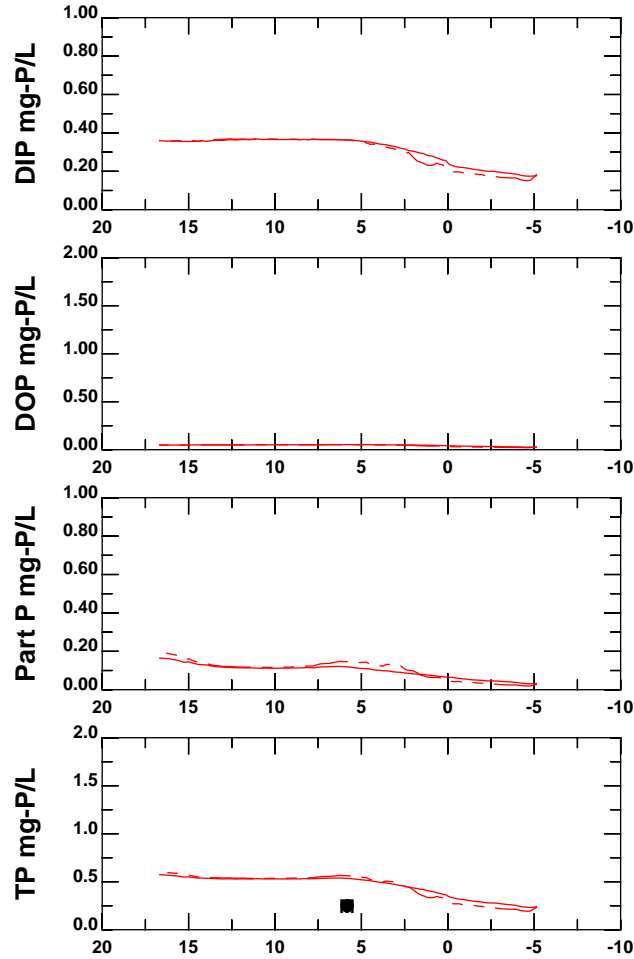
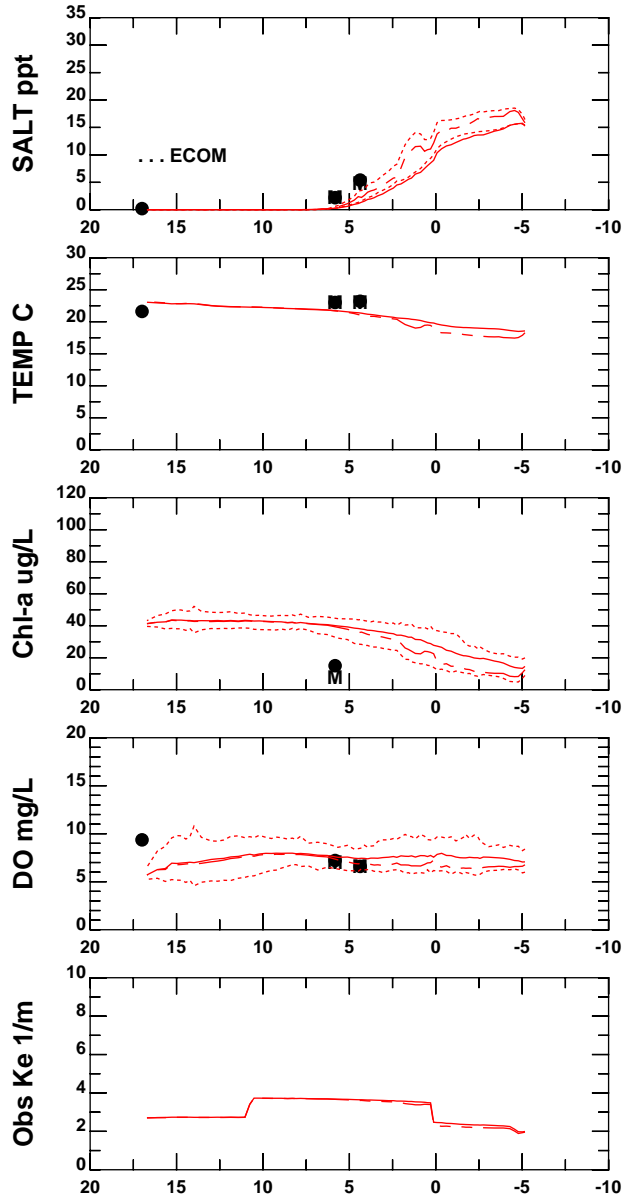
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER





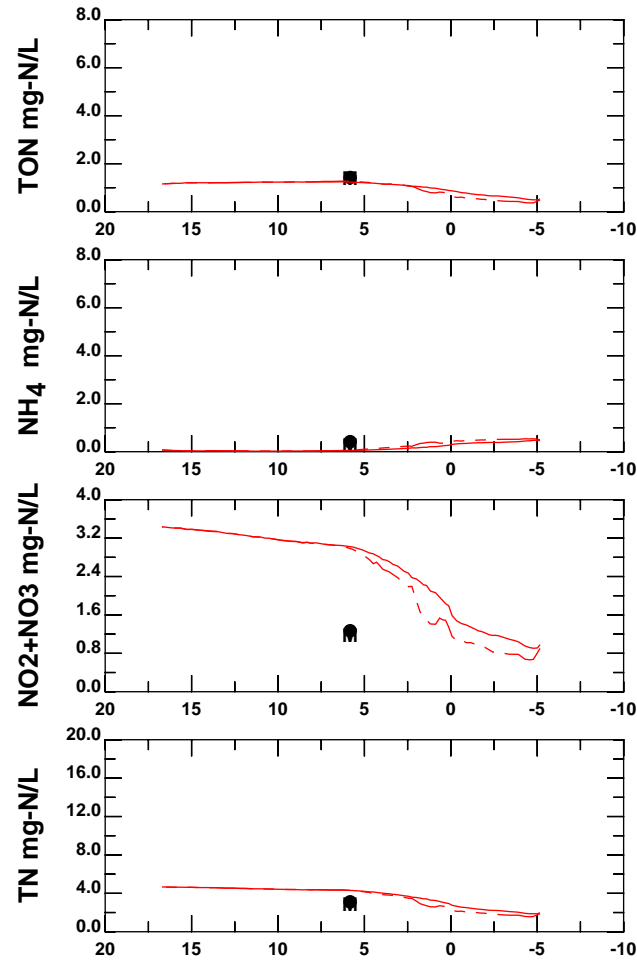
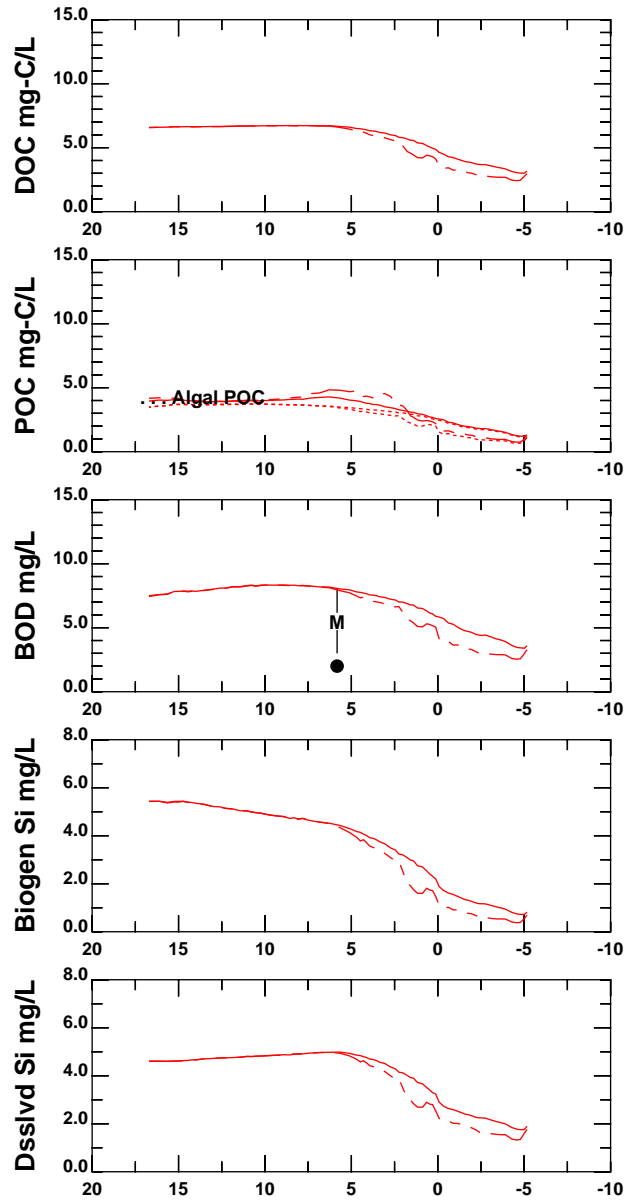
**DATA**  
NJHDG Jun 12,2001

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

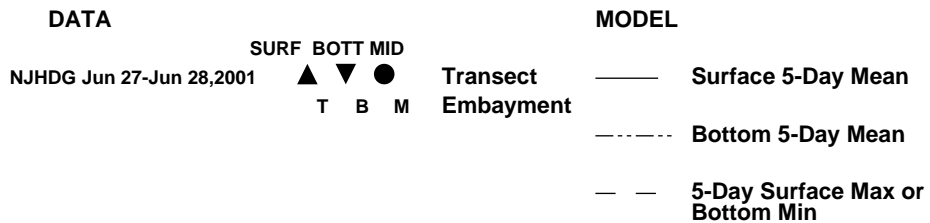
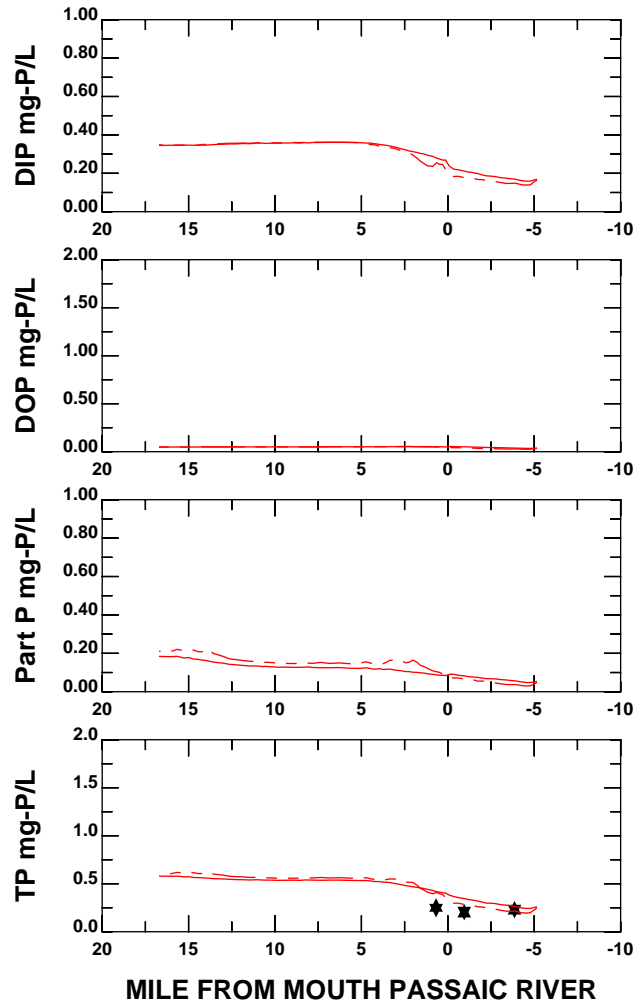
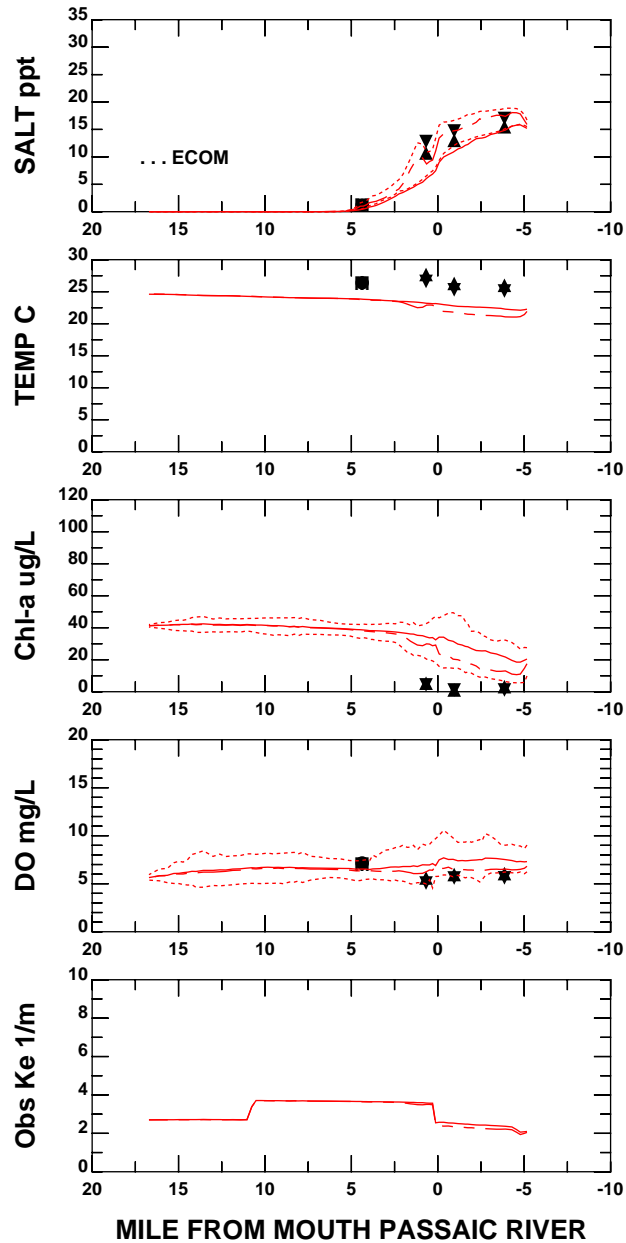


DATA  
NJHDG Jun 12,2001

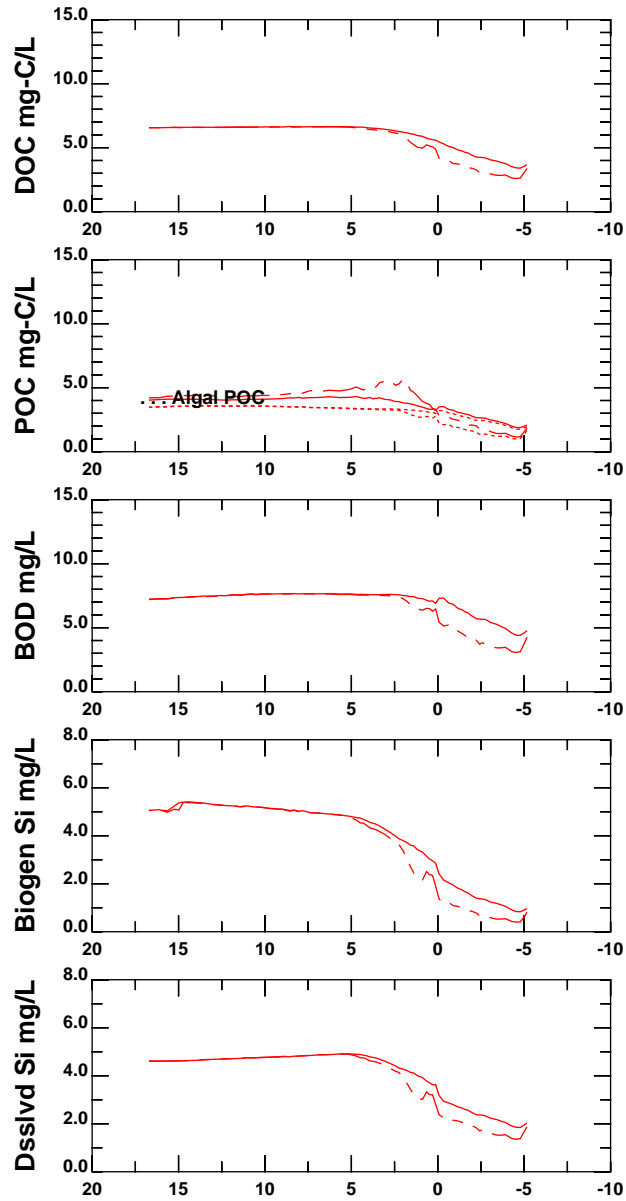
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0001



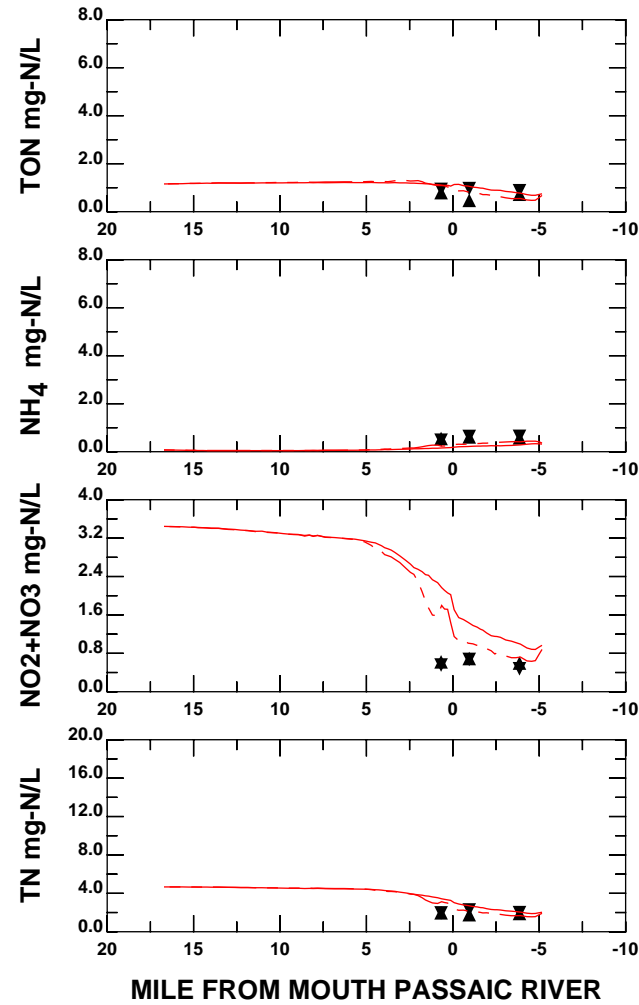
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



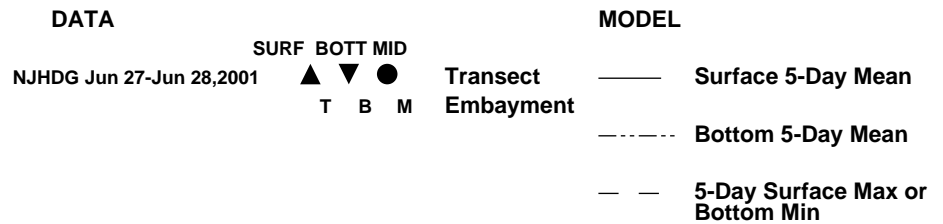
MILE FROM MOUTH PASSAIC RIVER

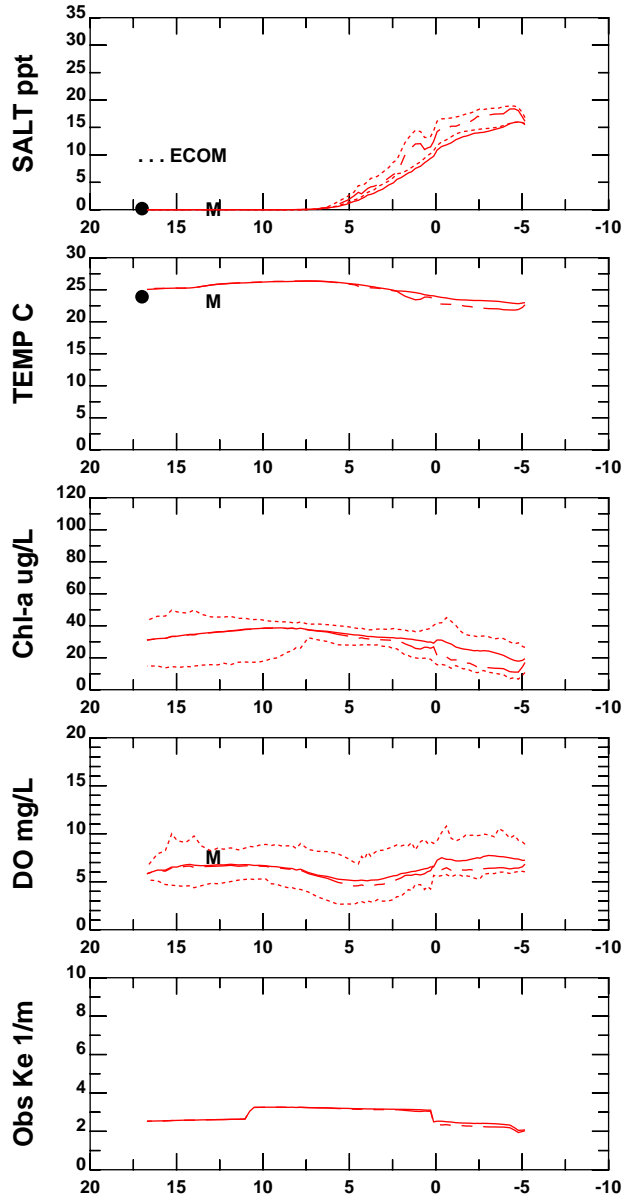
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER

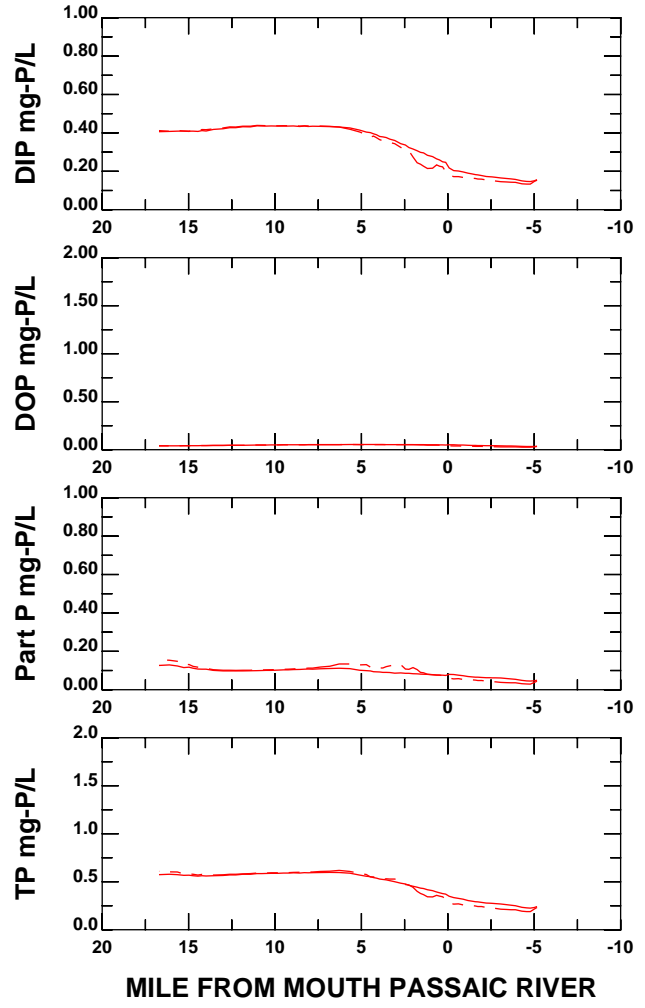




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

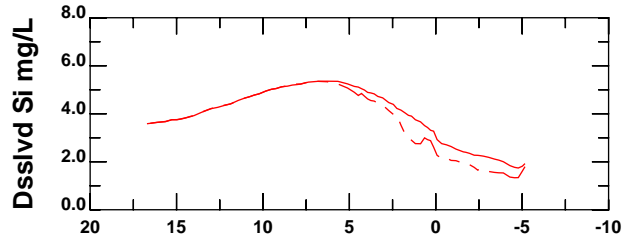
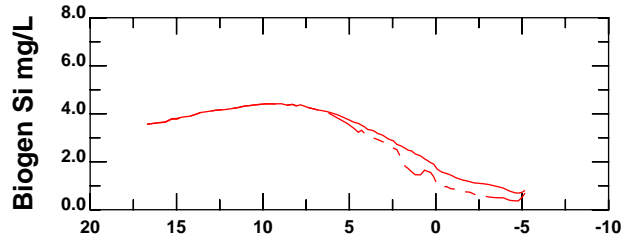
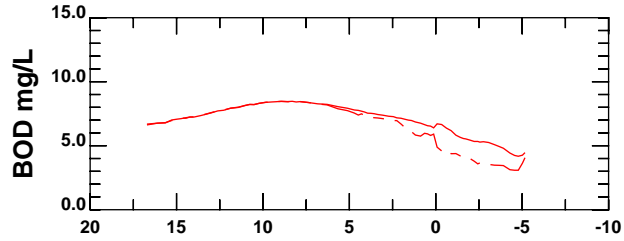
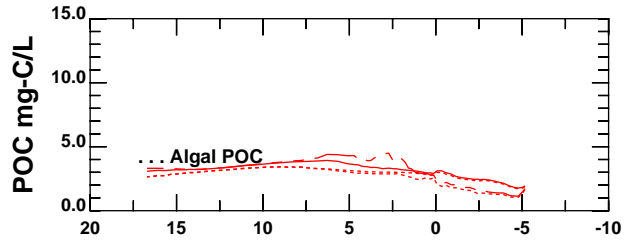
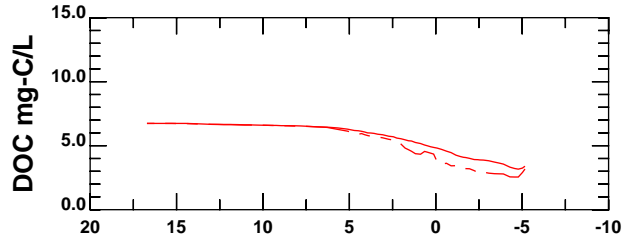


**DATA**  
NJHDG Jul 03,2001

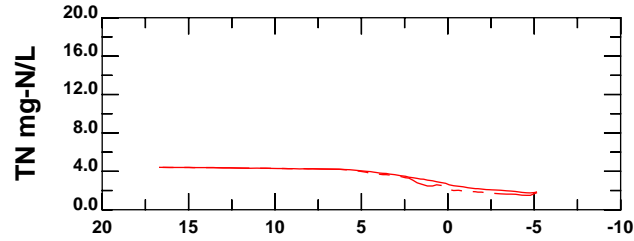
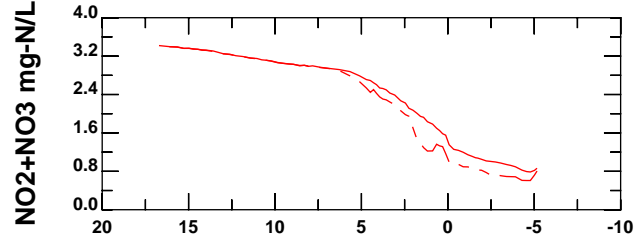
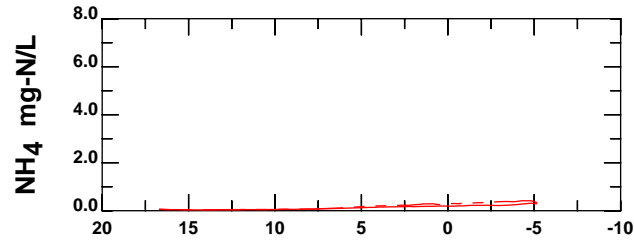
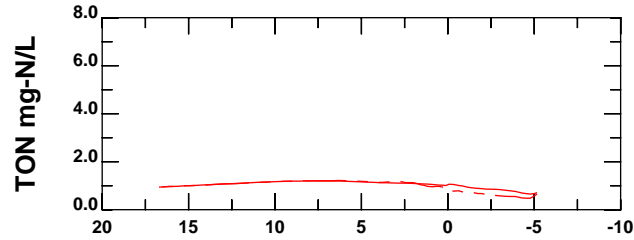
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jul 03,2001

SURF BOTT MID

▲ ▼ ●  
T B M

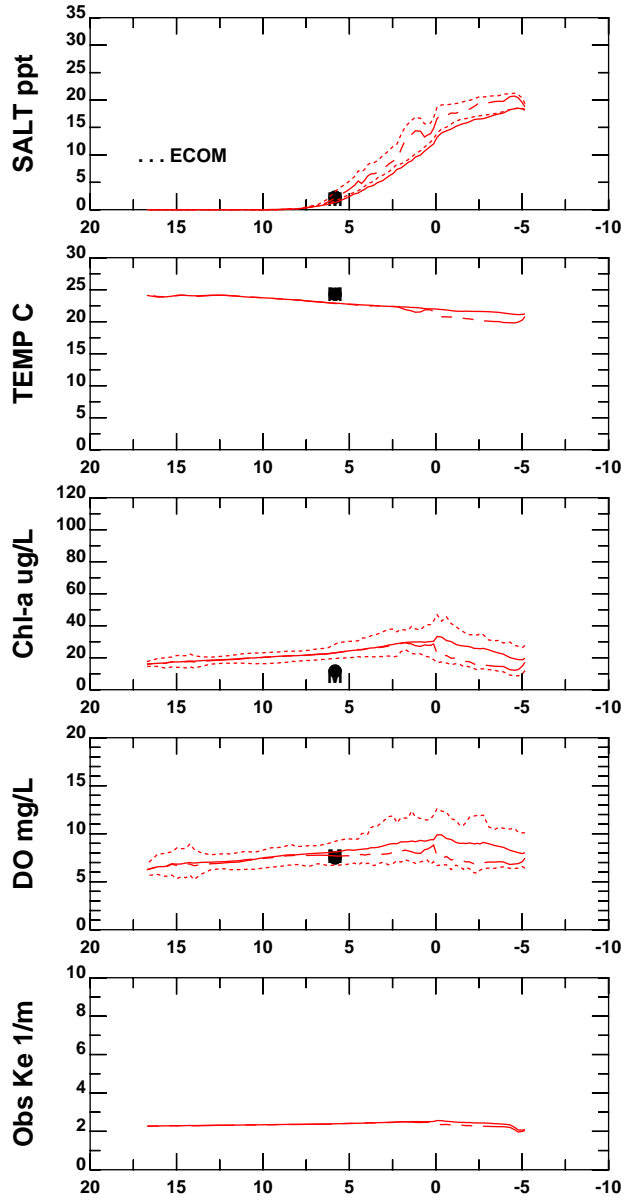
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

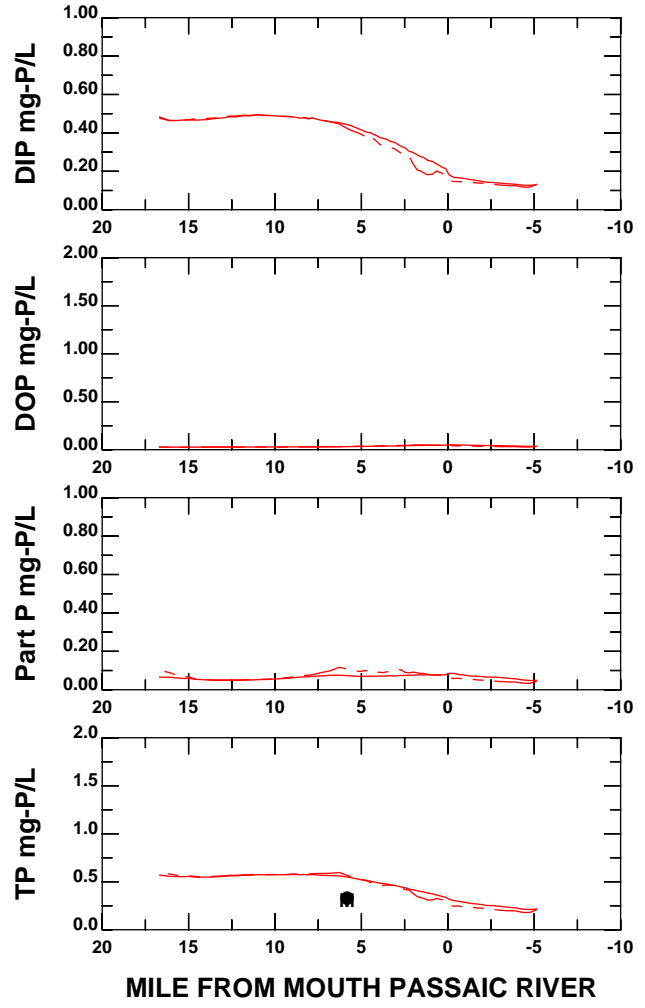
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0001

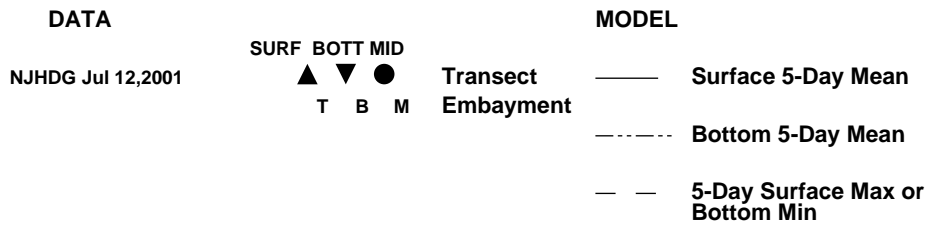


MILE FROM MOUTH PASSAIC RIVER

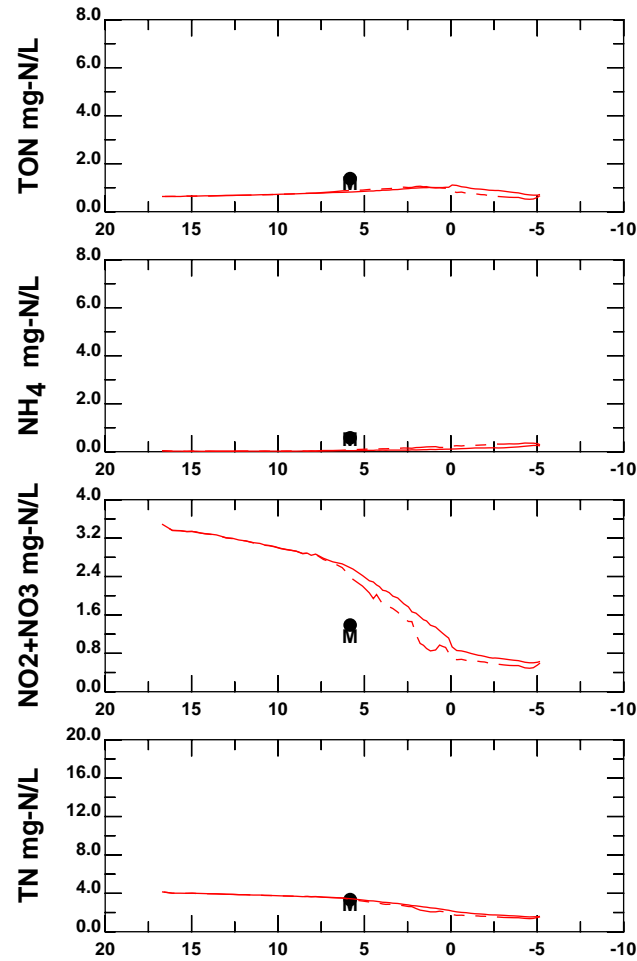
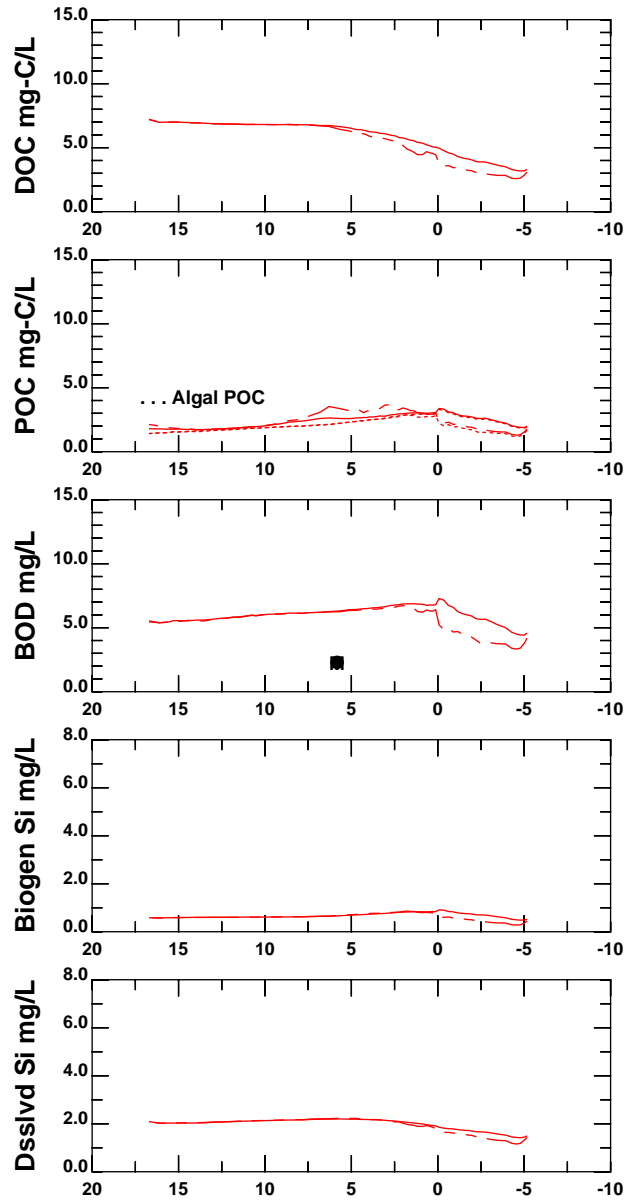
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



MILE FROM MOUTH PASSAIC RIVER







**DATA**

NJHDG Jul 12,2001

SURF BOTT MID

▲ ▼ ●  
T B M

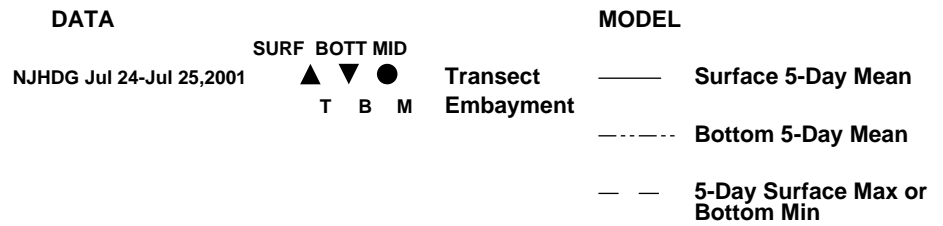
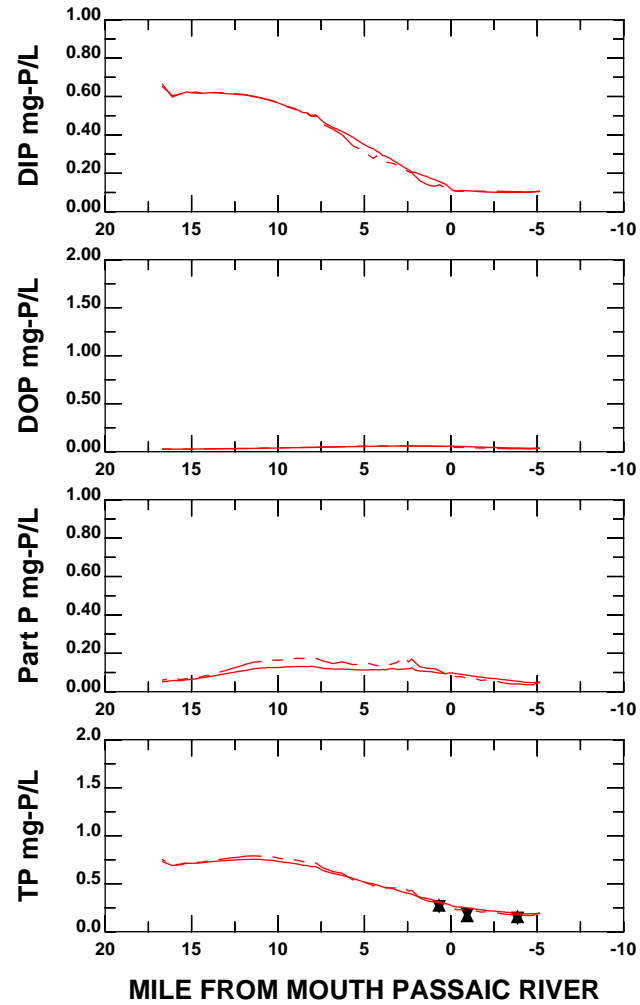
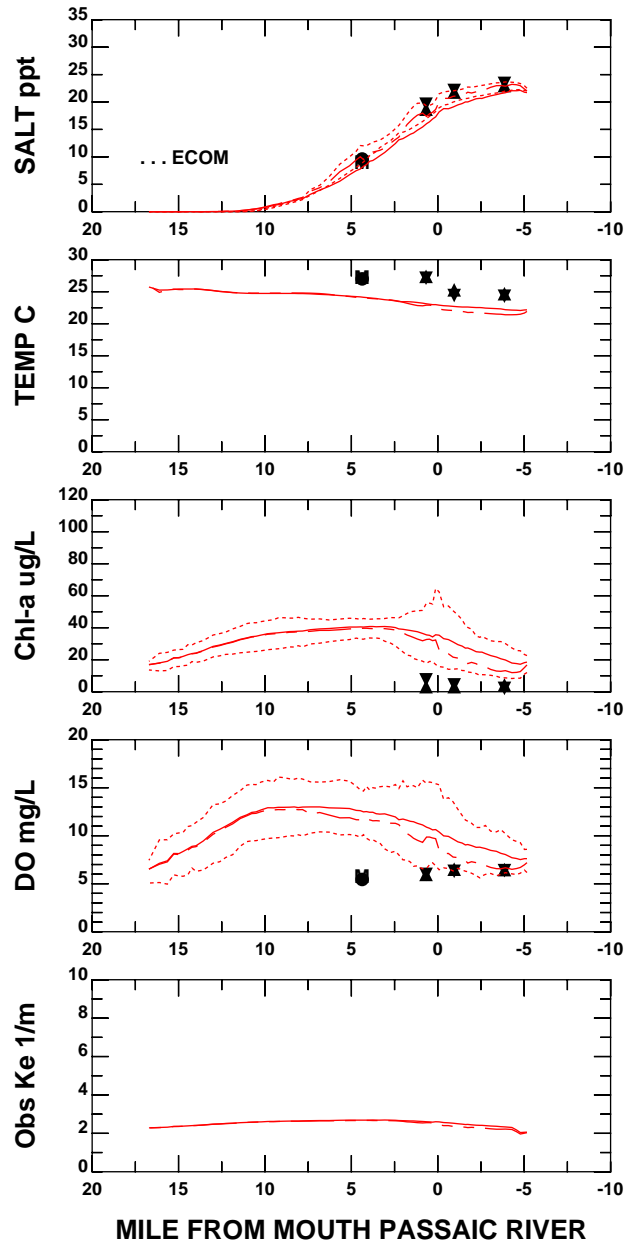
Transect  
Embayment

**MODEL**

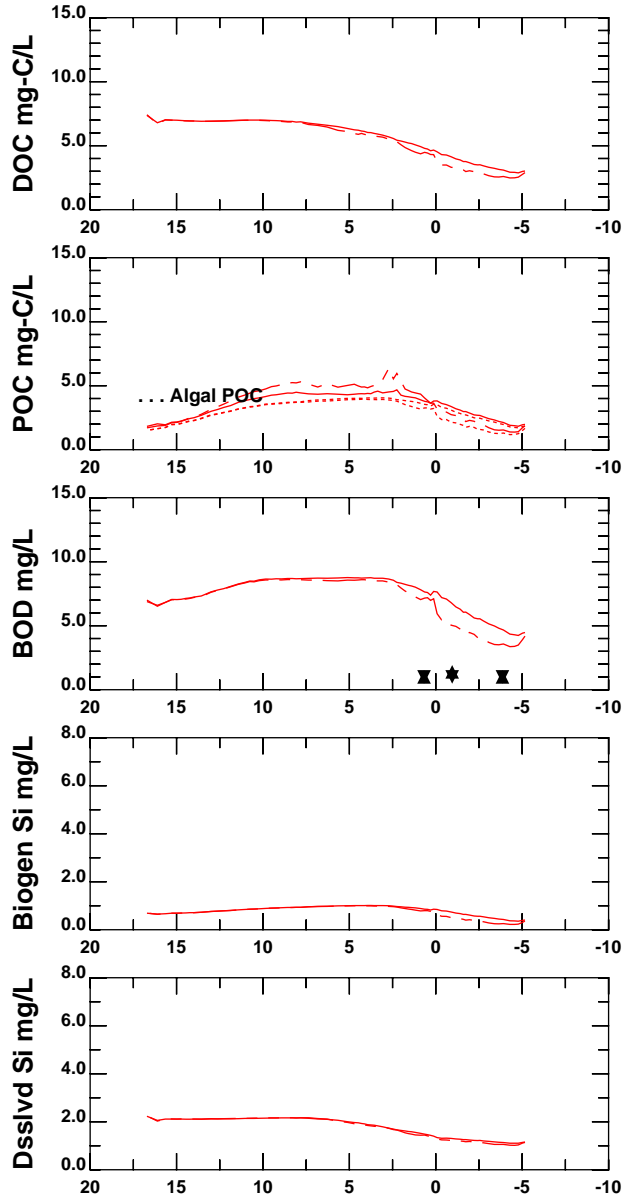
— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0001

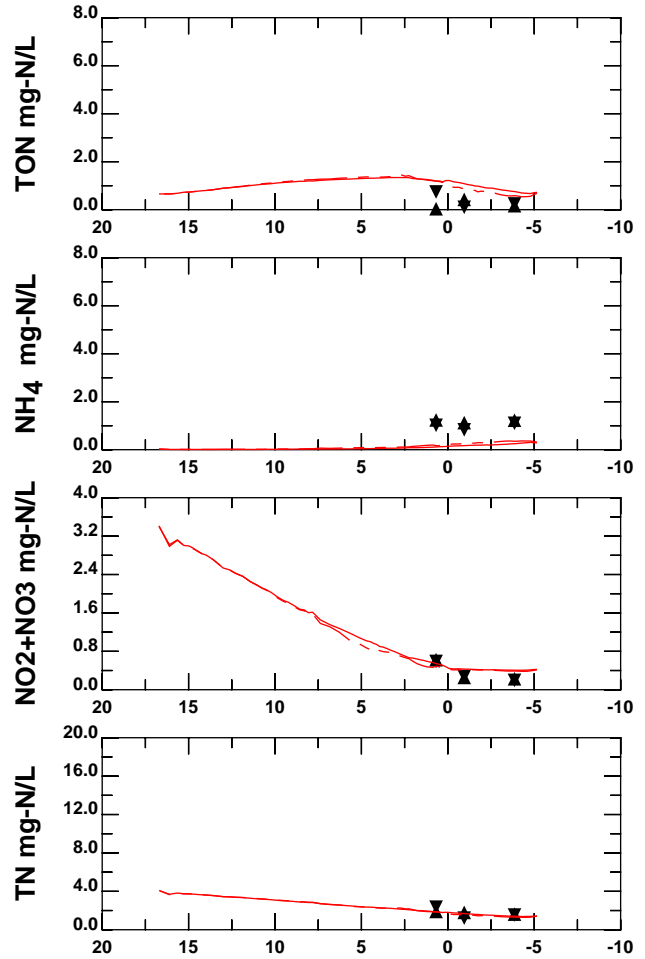


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

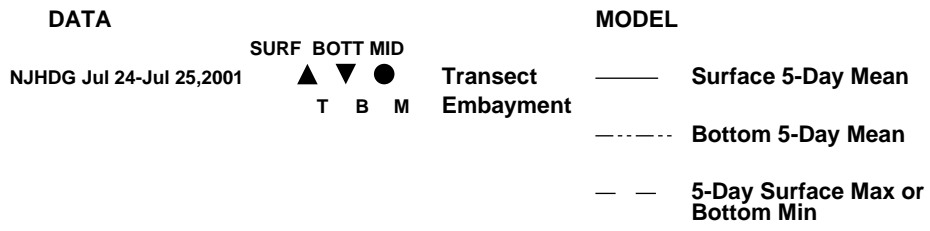


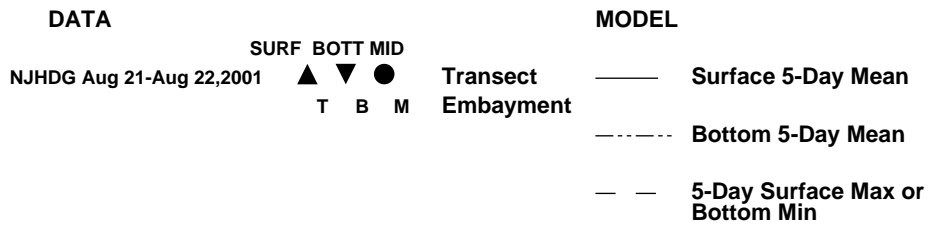
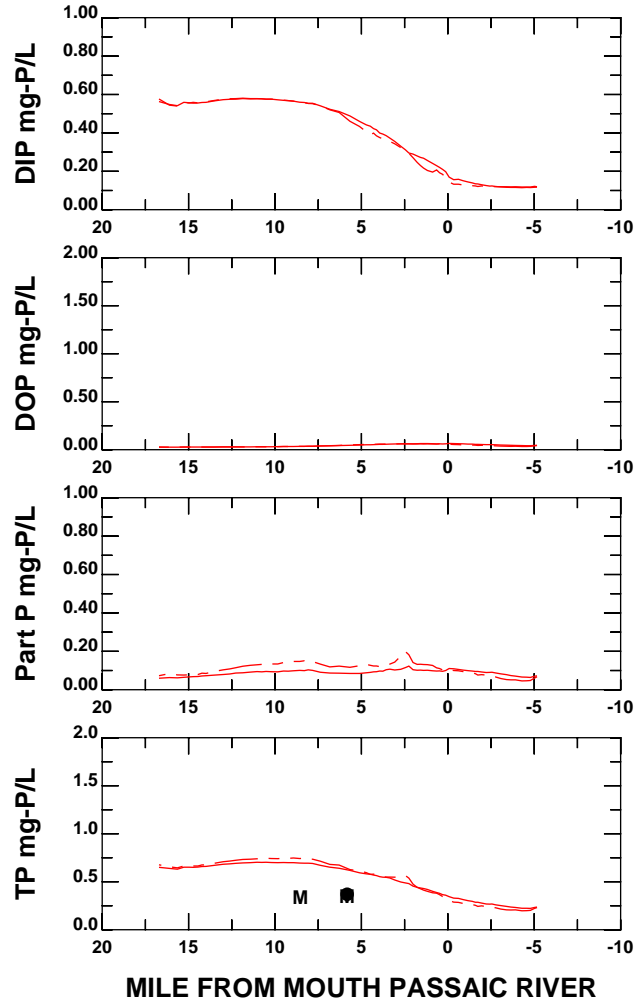
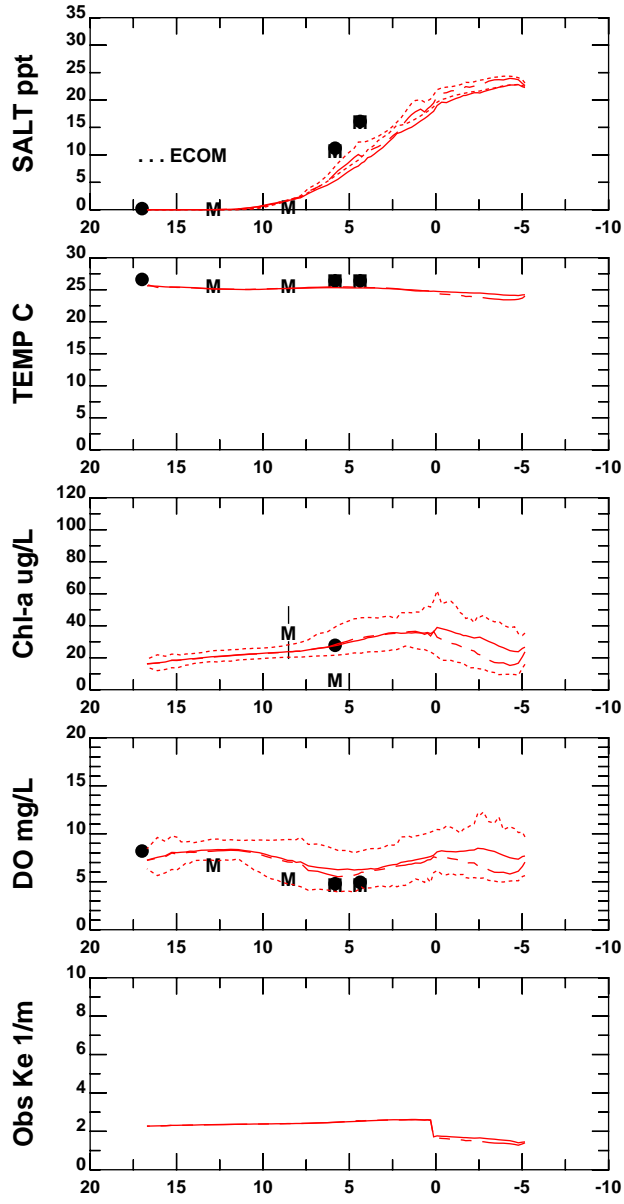
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

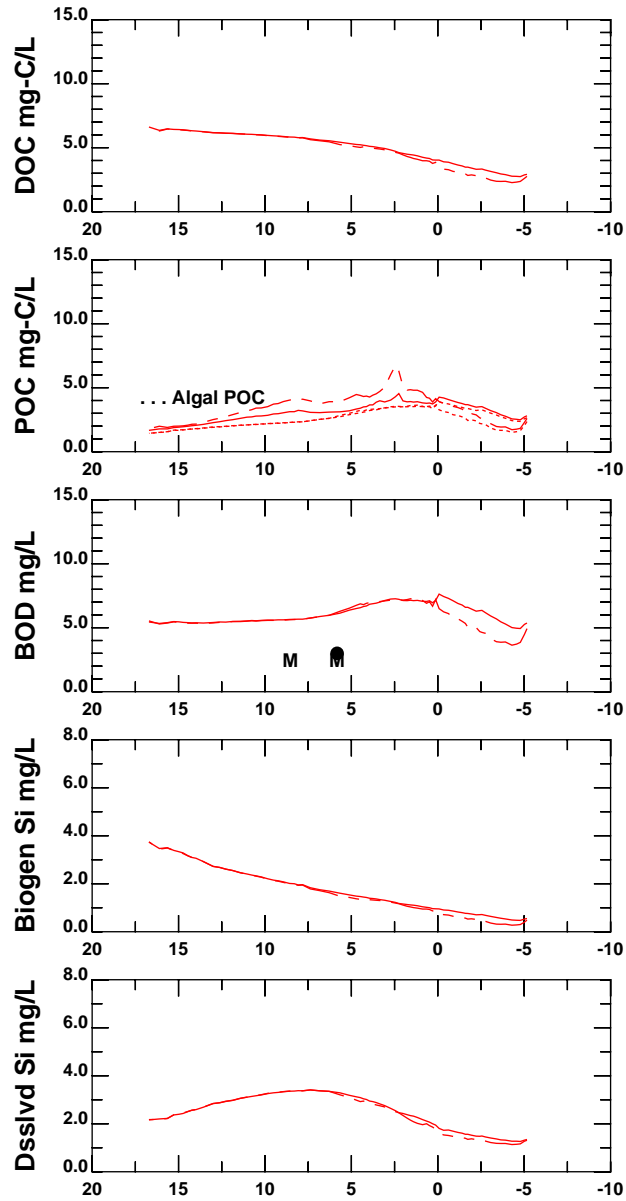


MILE FROM MOUTH PASSAIC RIVER





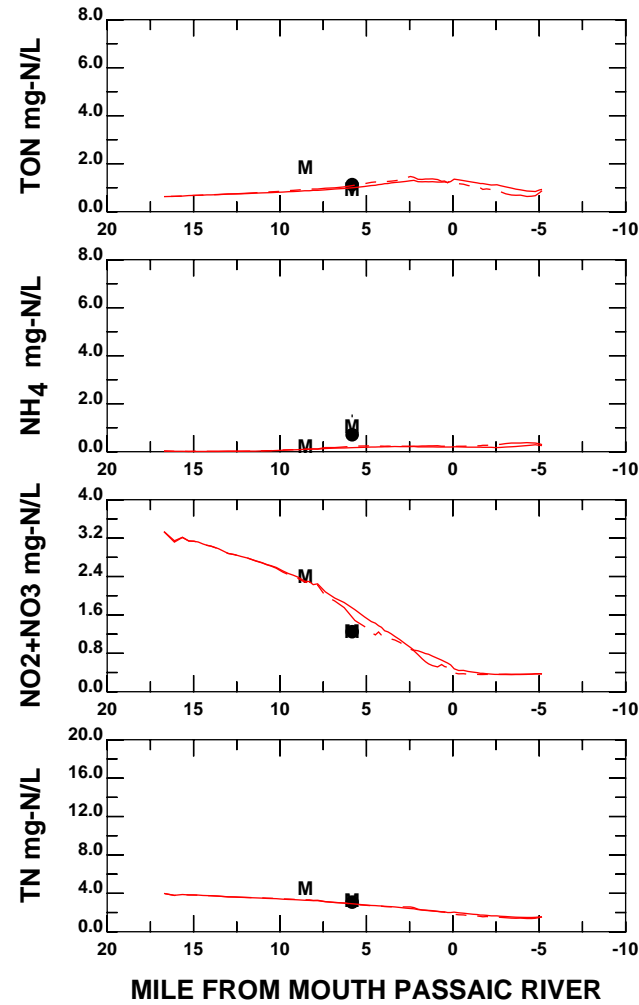
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



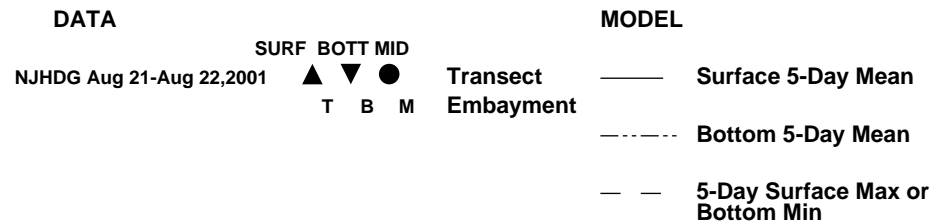
MILE FROM MOUTH PASSAIC RIVER

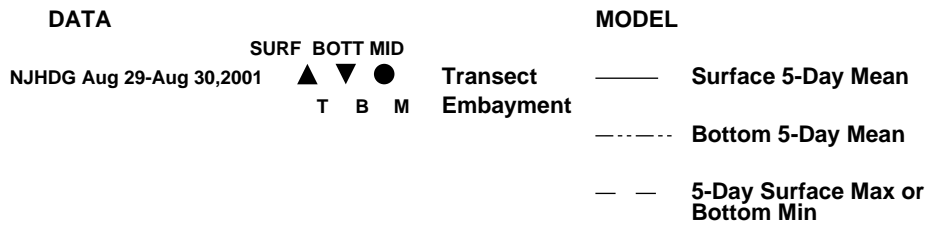
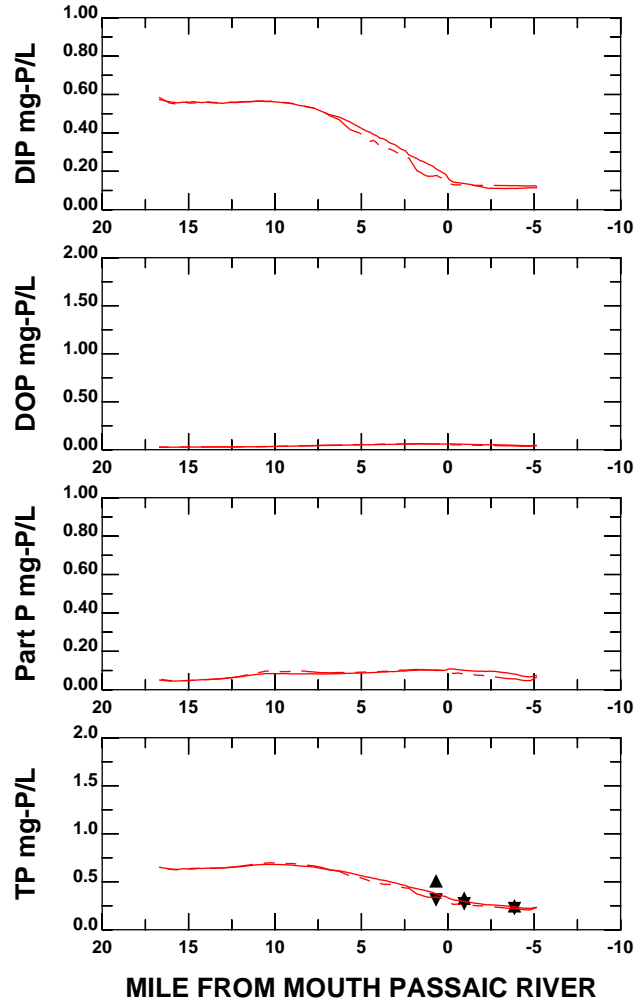
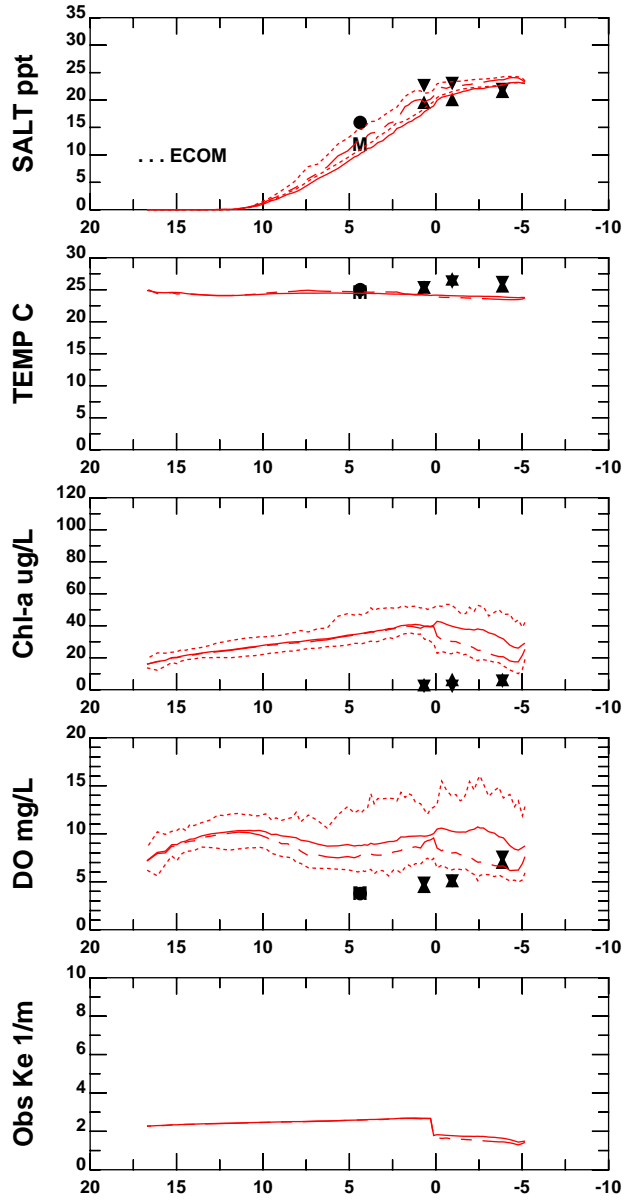
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

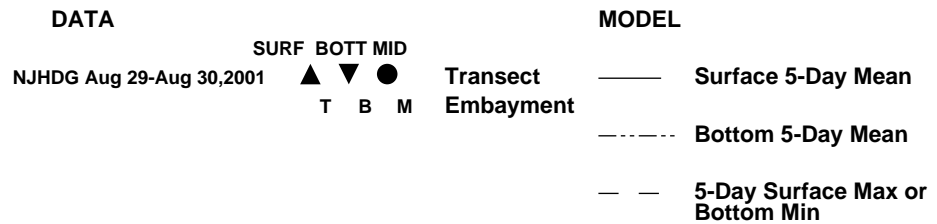
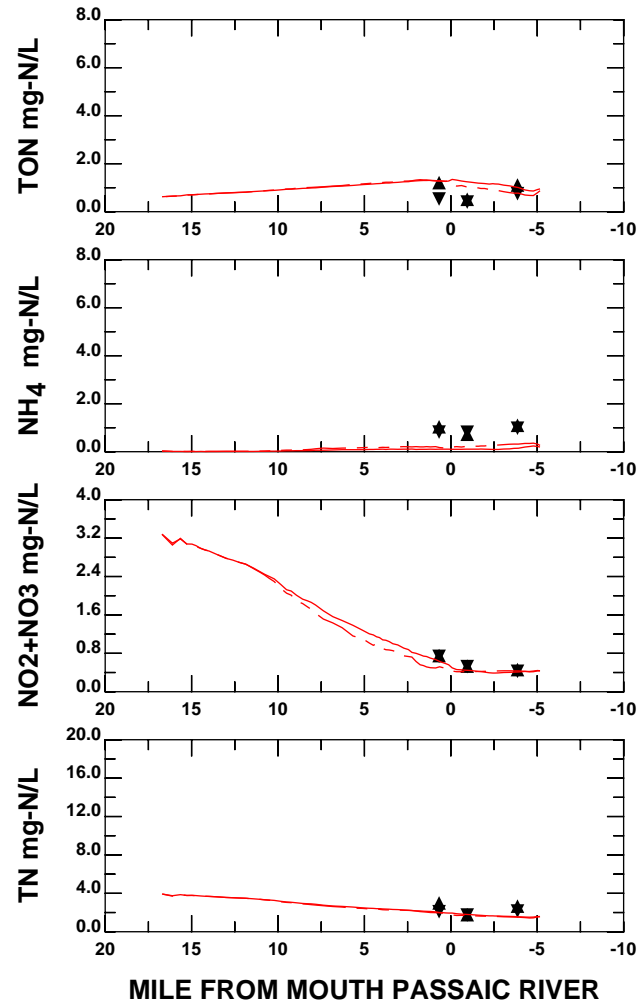
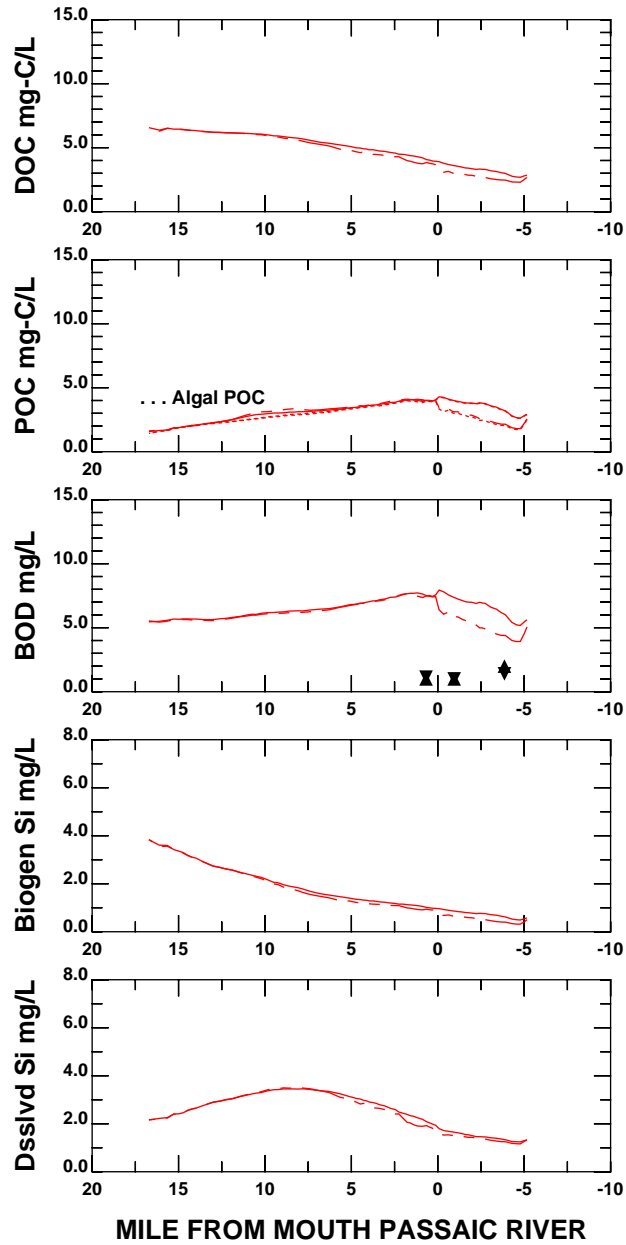


MILE FROM MOUTH PASSAIC RIVER

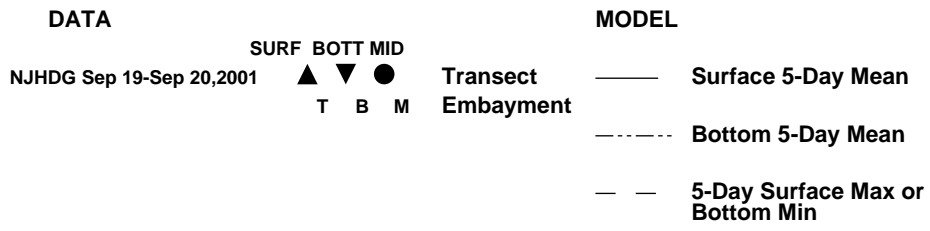
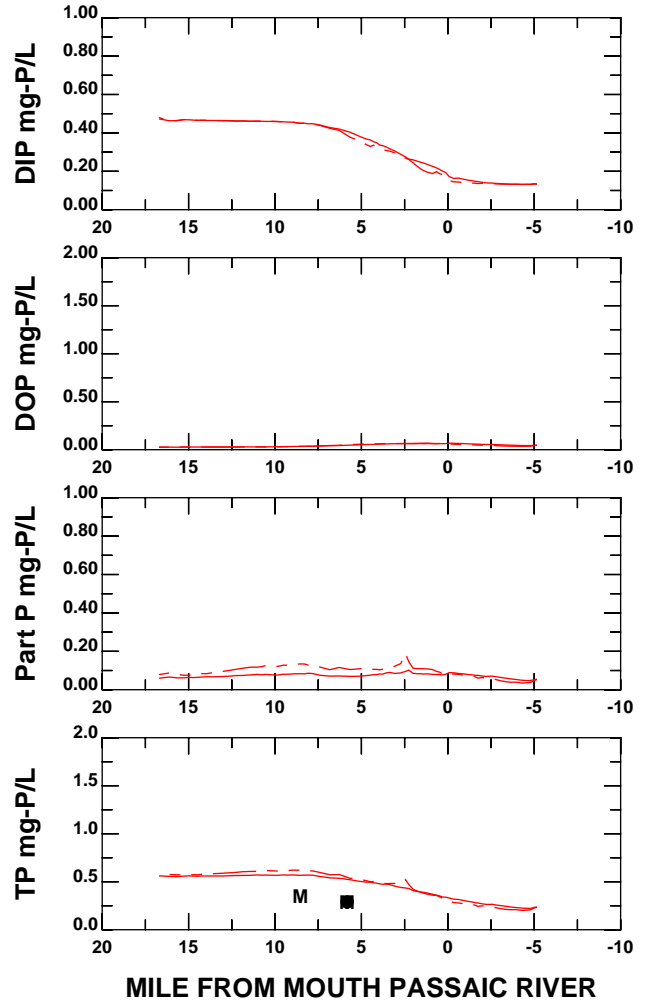
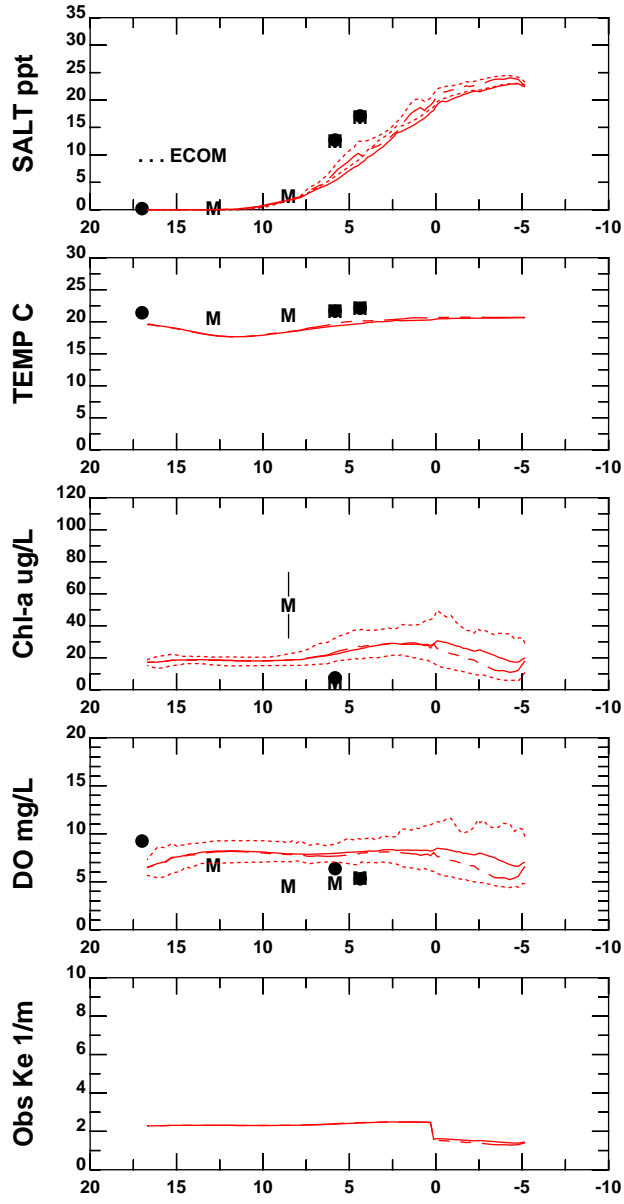




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

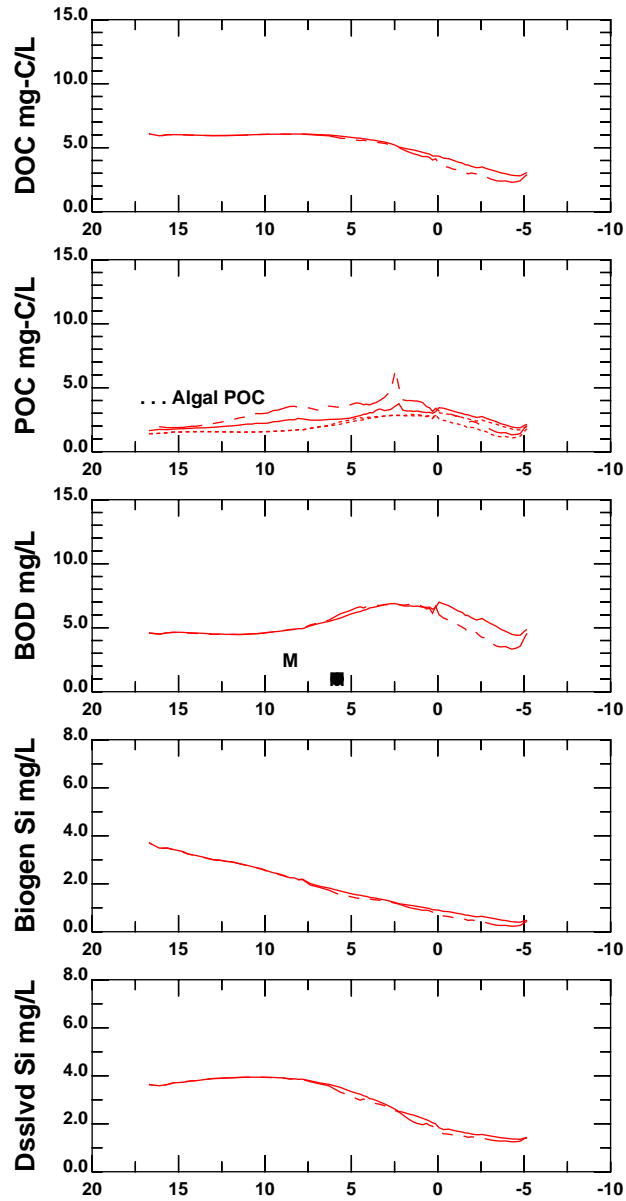


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0001

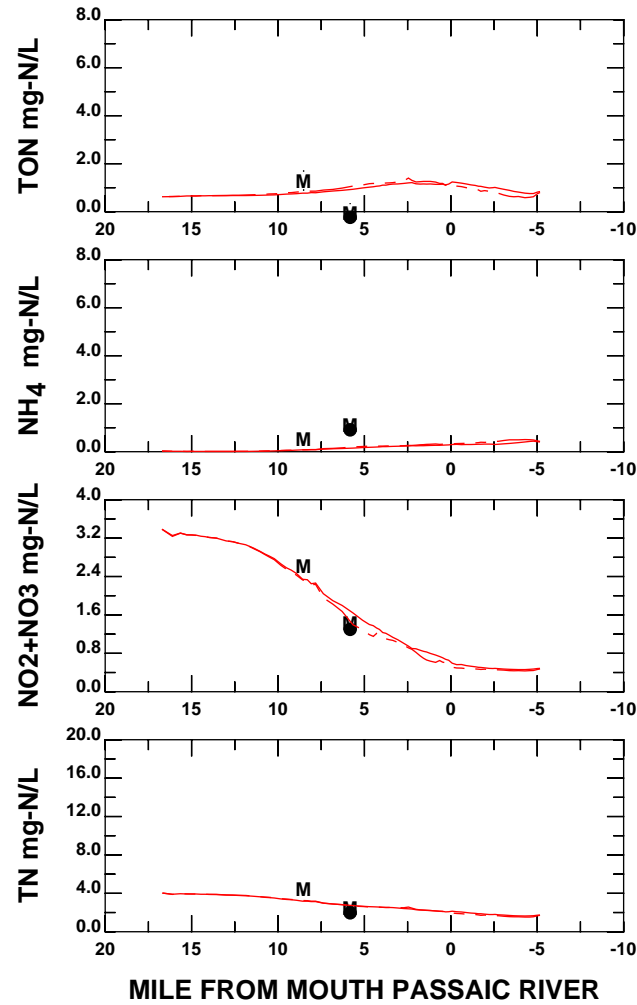




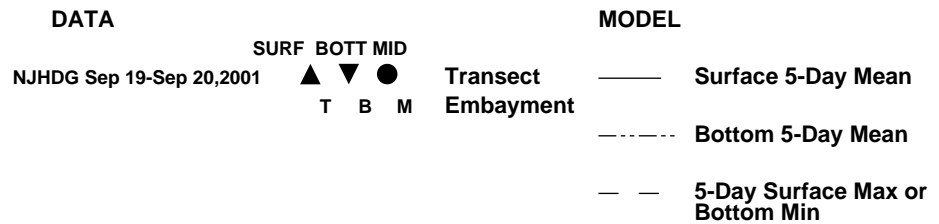
MILE FROM MOUTH PASSAIC RIVER

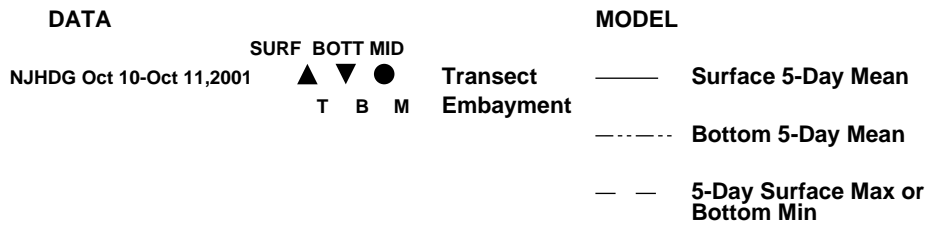
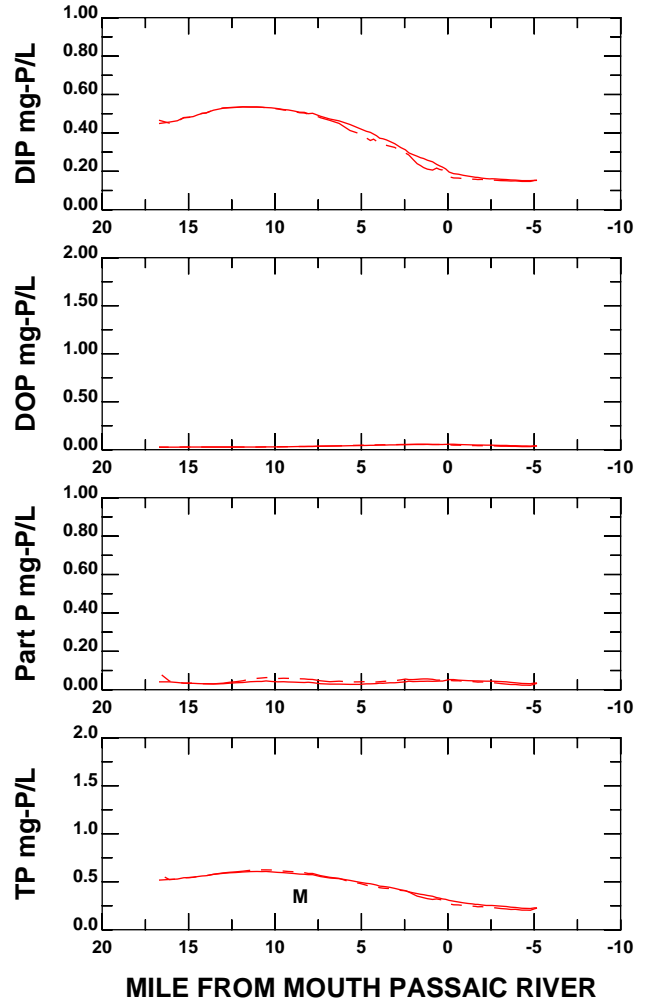
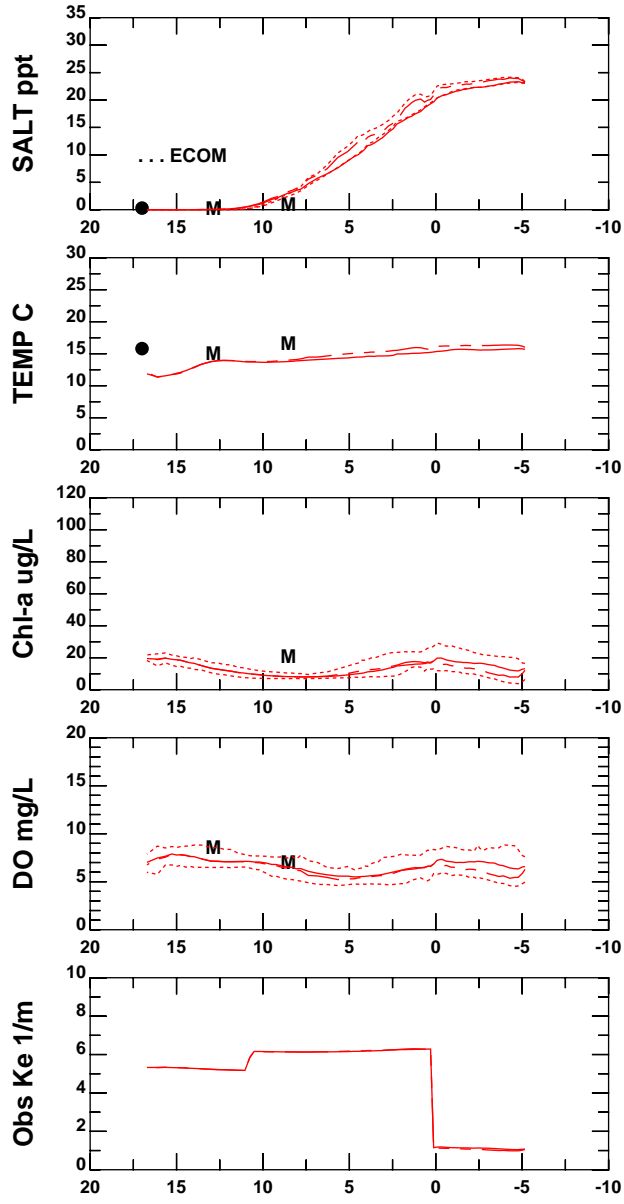
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0001

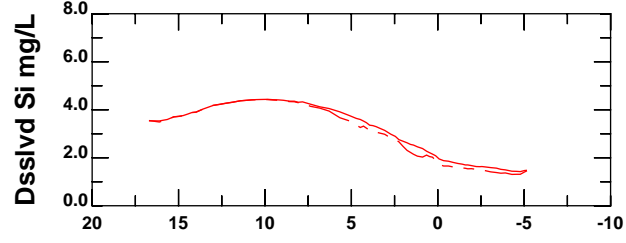
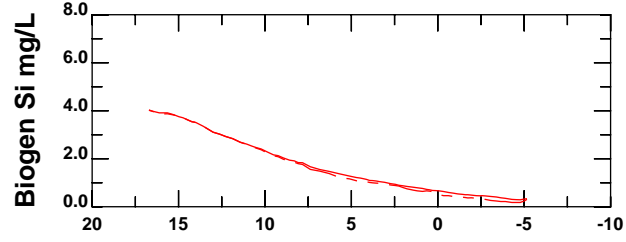
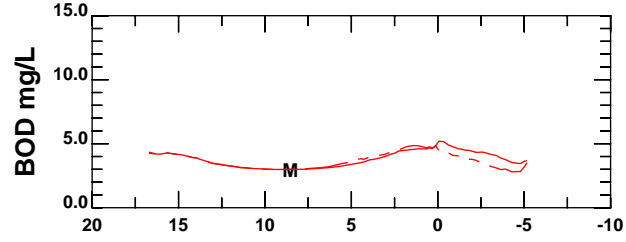
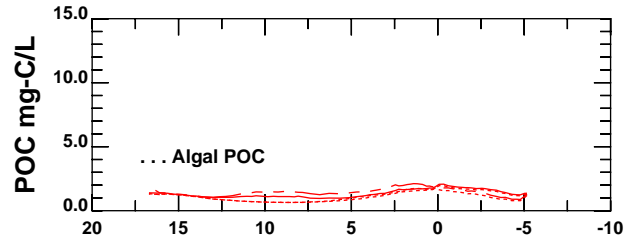
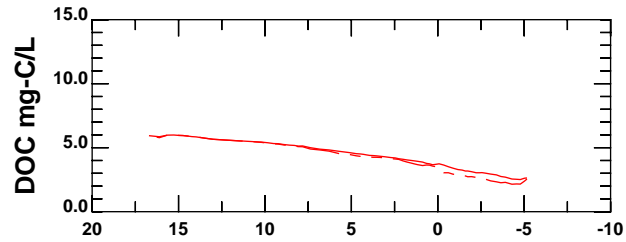


MILE FROM MOUTH PASSAIC RIVER





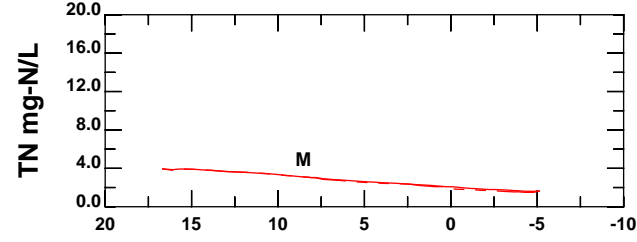
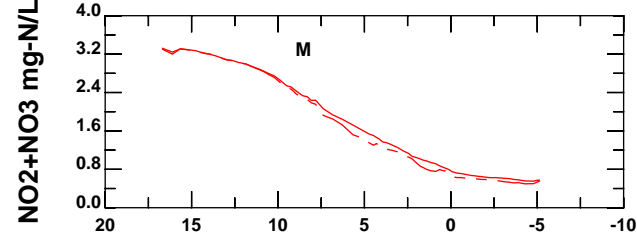
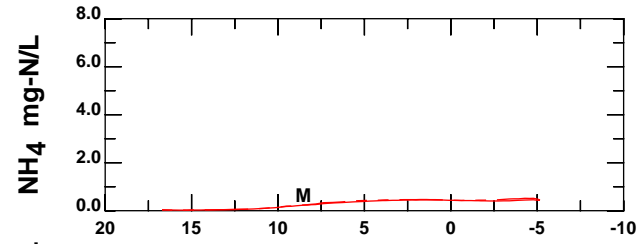
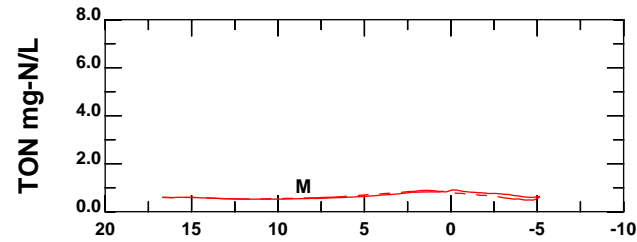
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



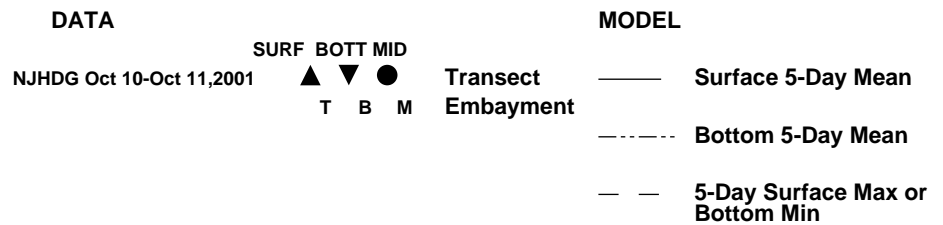
MILE FROM MOUTH PASSAIC RIVER

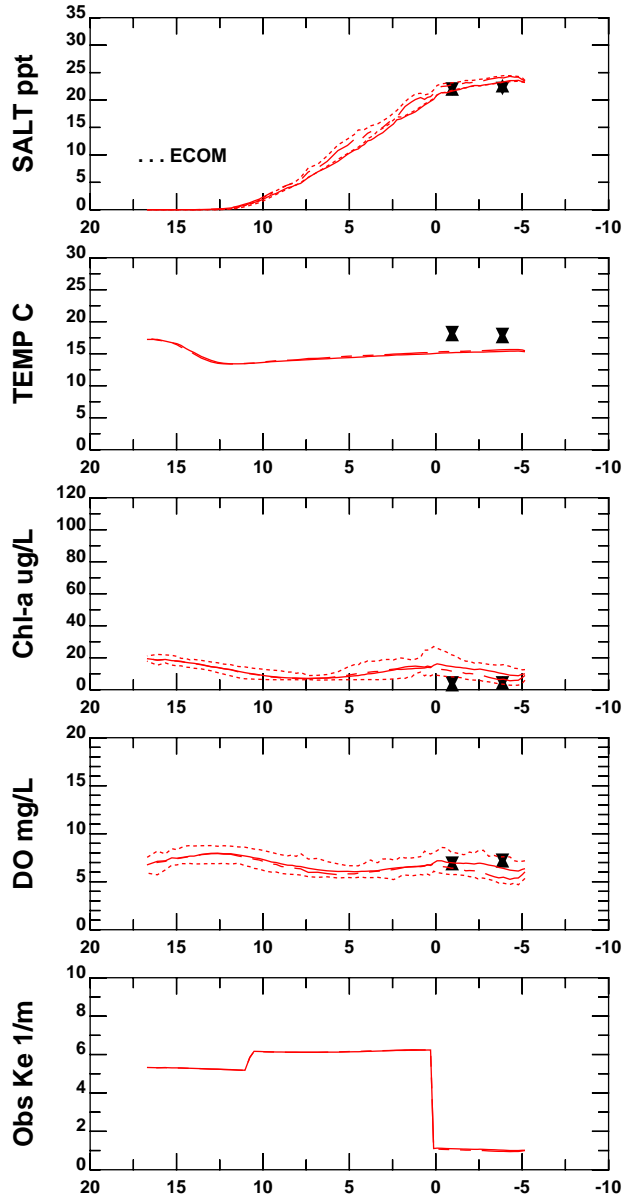
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



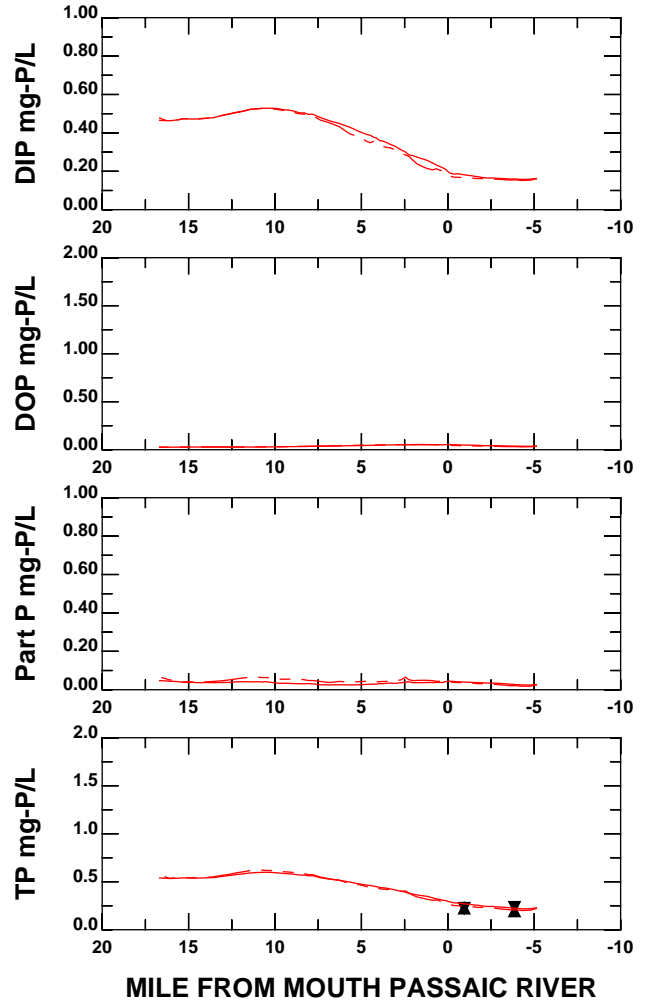
MILE FROM MOUTH PASSAIC RIVER





MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102

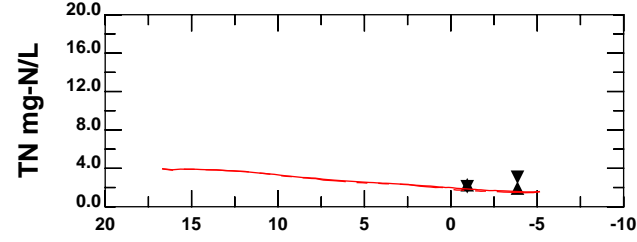
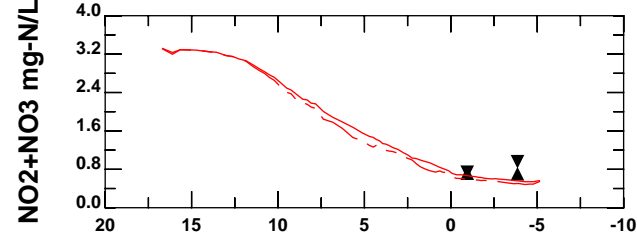
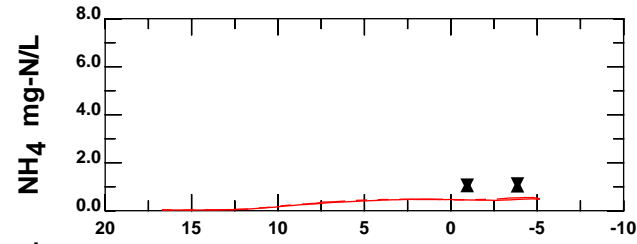
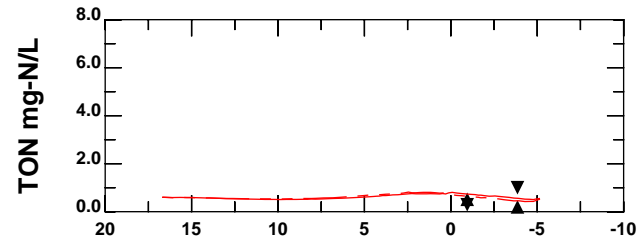
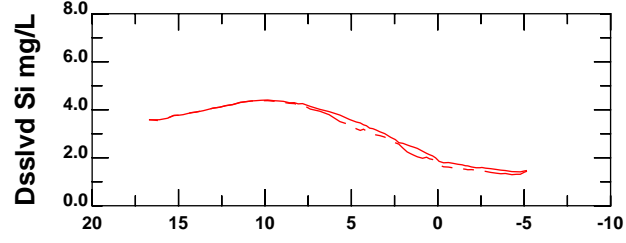
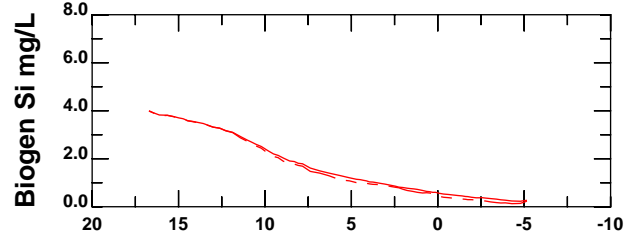
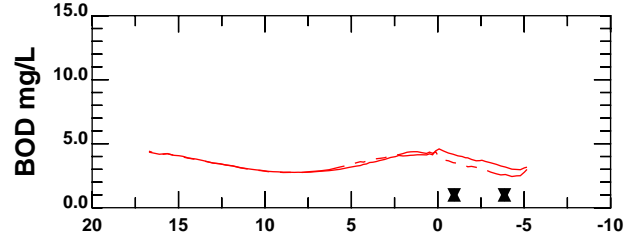
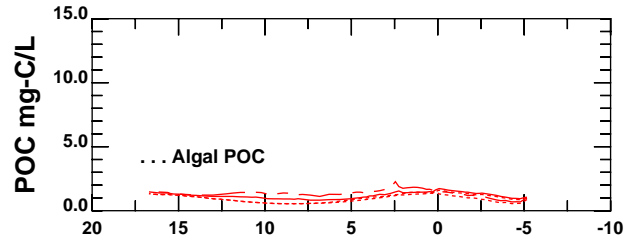
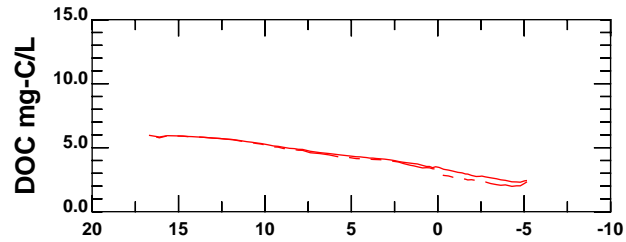


DATA  
 NJHDG Oct 16,2001

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Oct 16,2001

SURF BOTT MID

▲ ▼ ●  
T B M

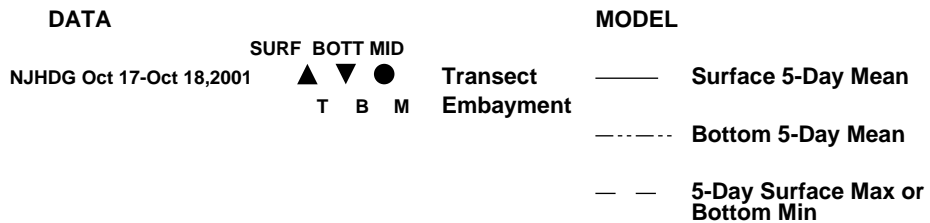
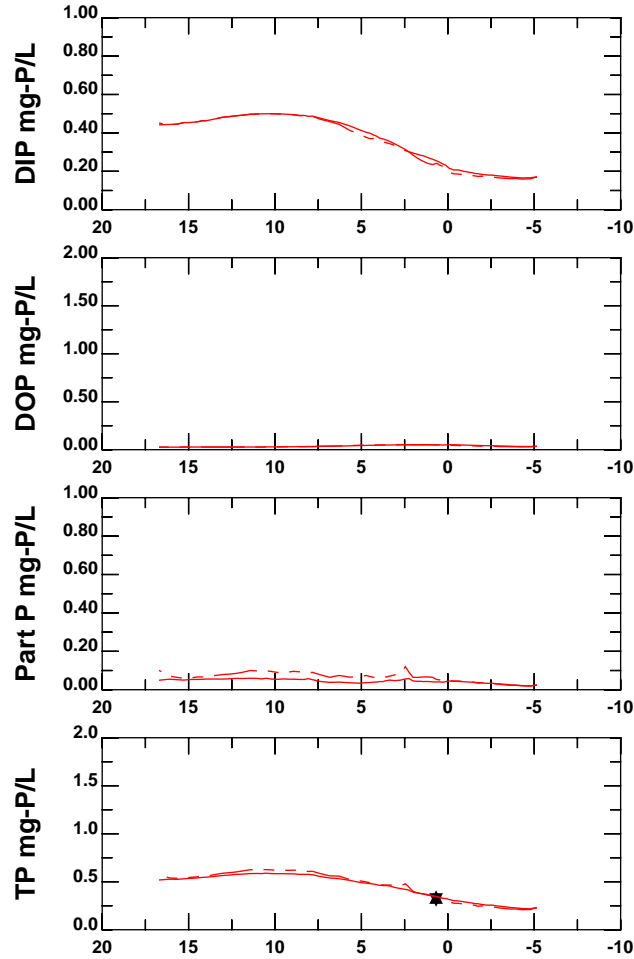
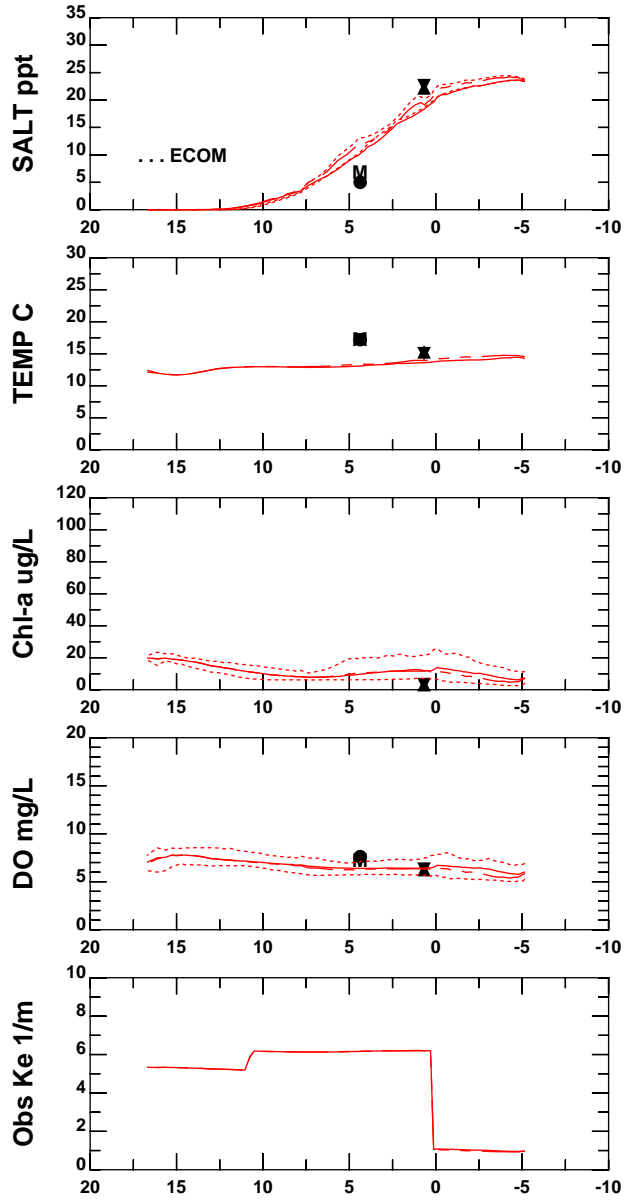
Transect  
Embayment

MODEL

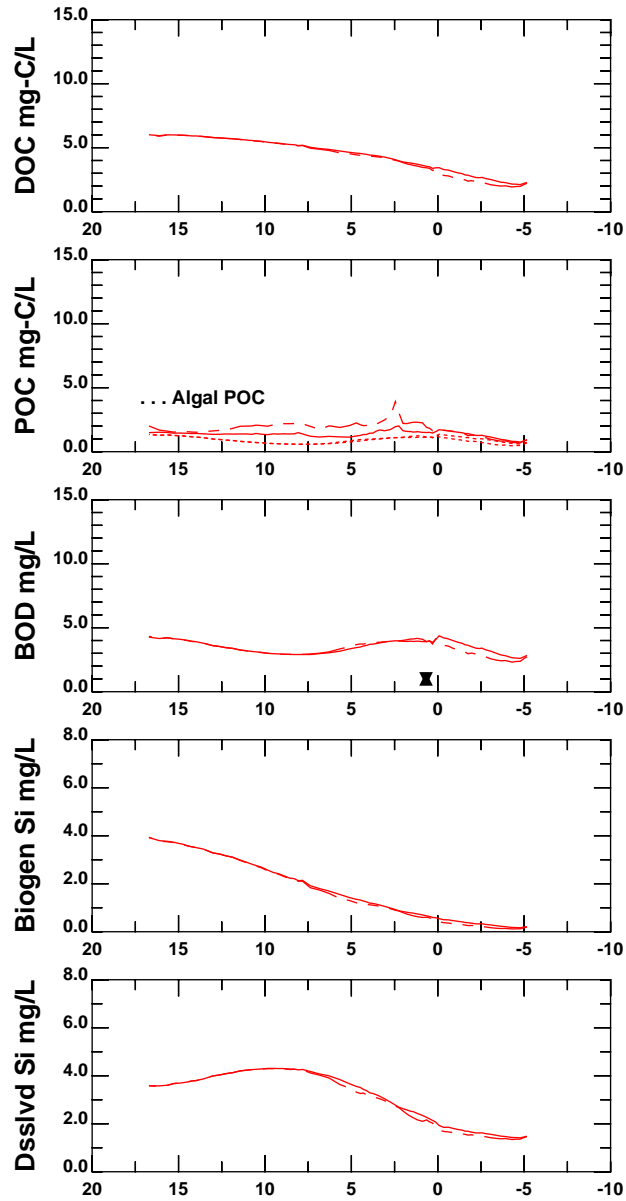
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



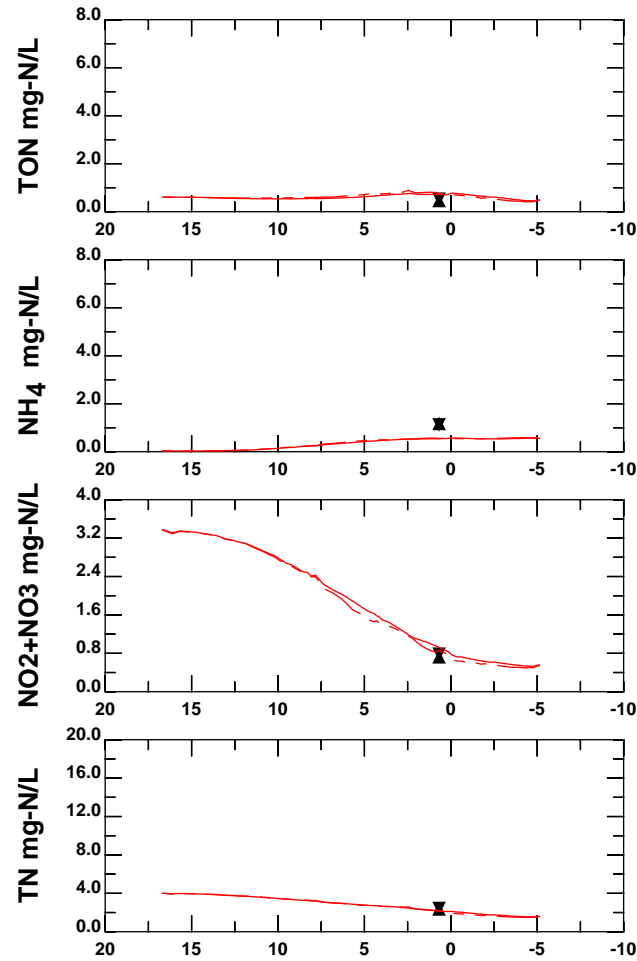
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



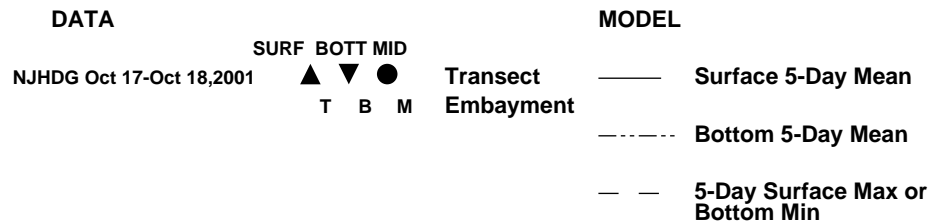
MILE FROM MOUTH PASSAIC RIVER

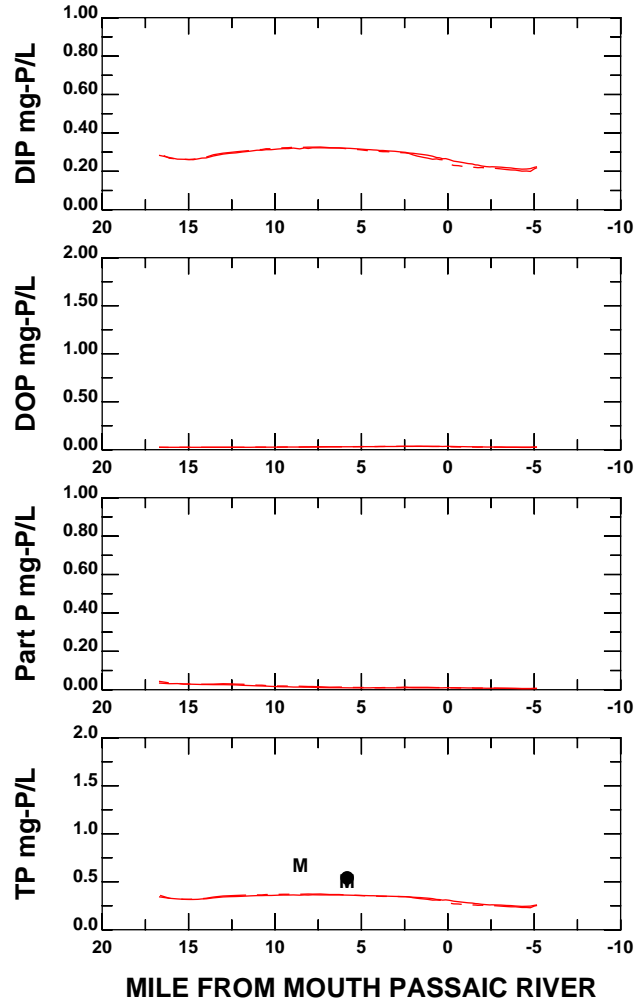
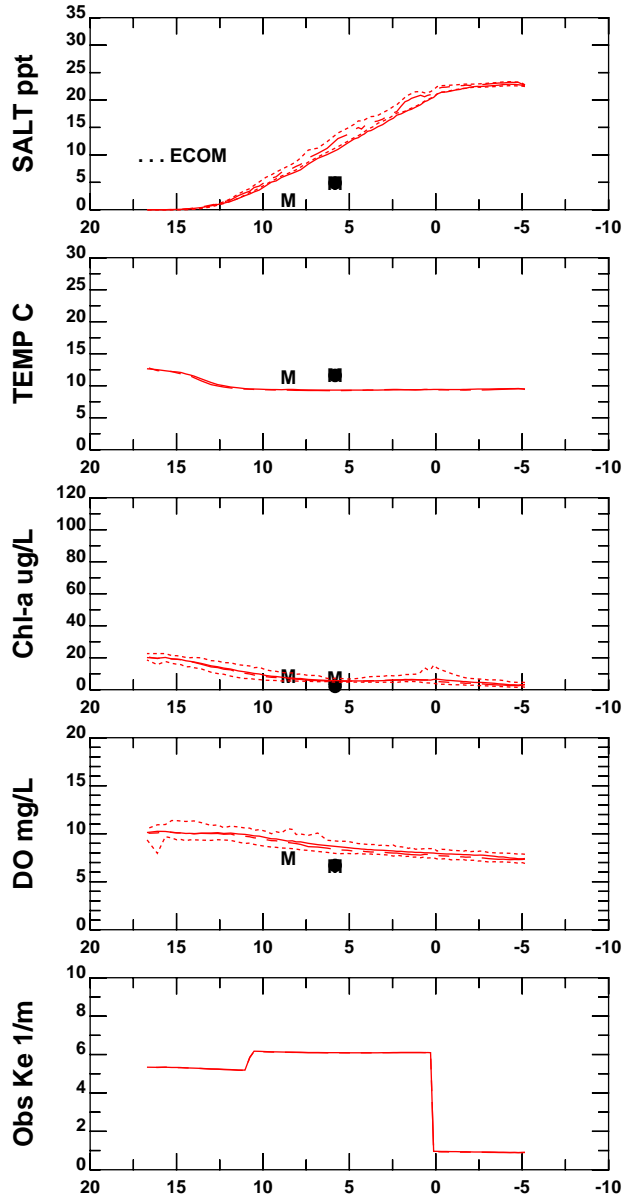
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER





**DATA**  
NJHDG Nov 27,2001

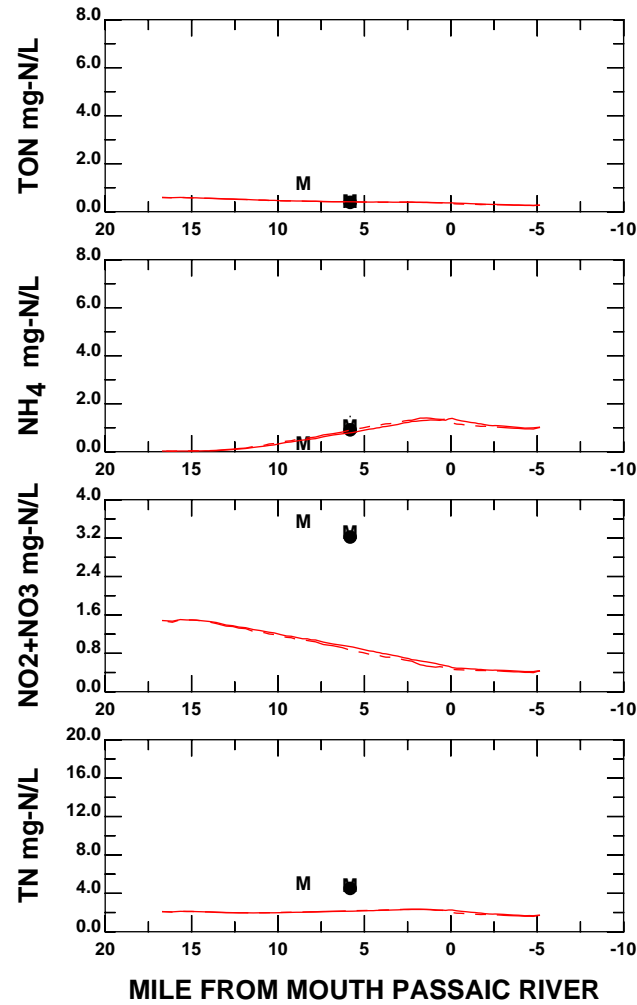
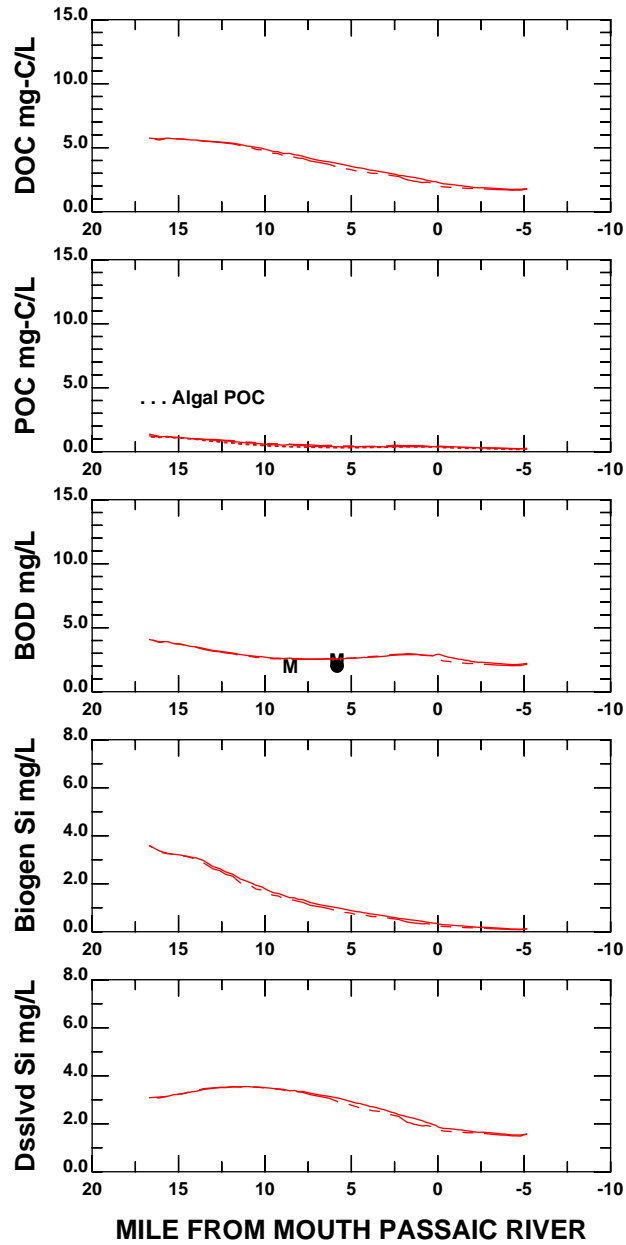
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102





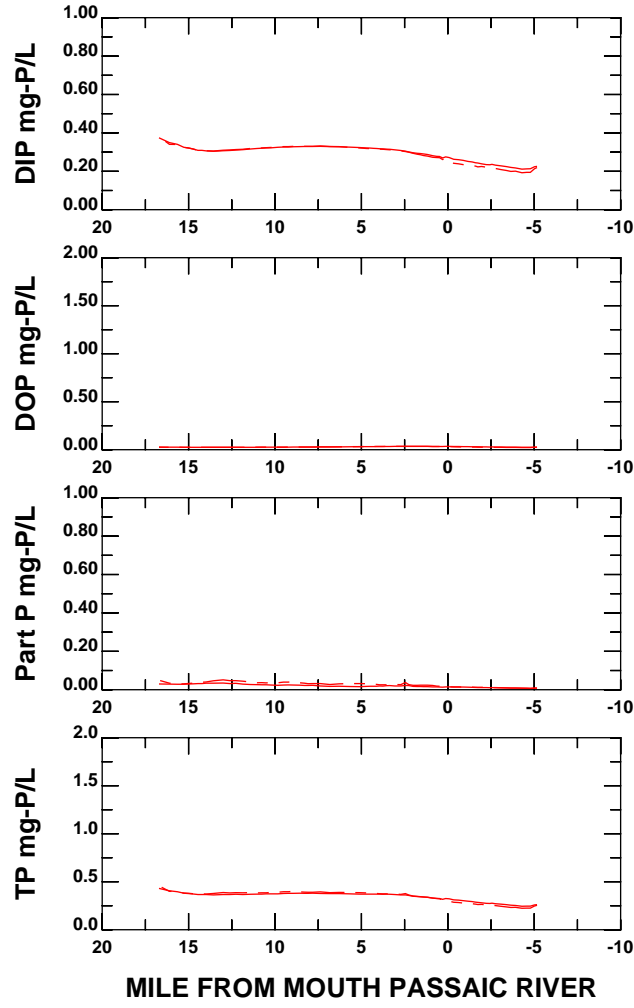
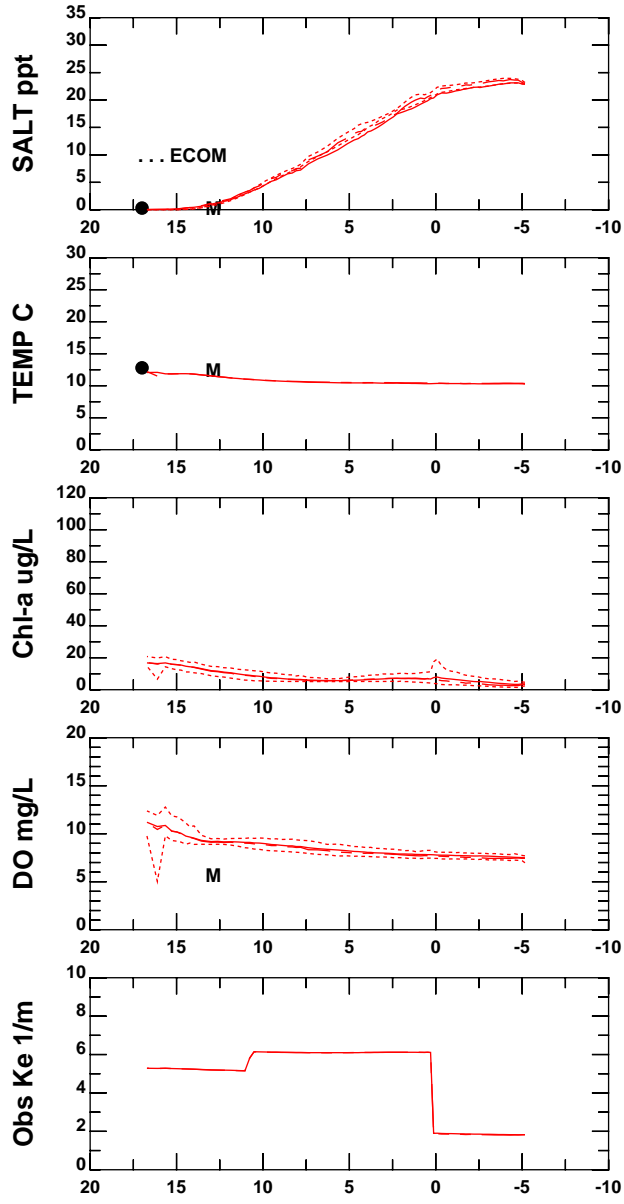
DATA  
NJHDG Nov 27,2001

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



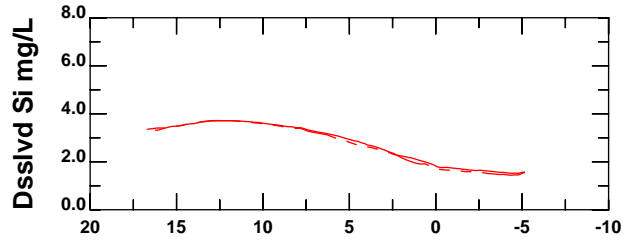
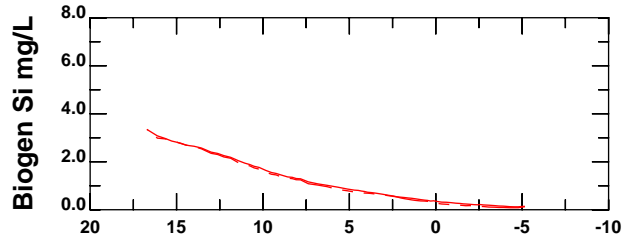
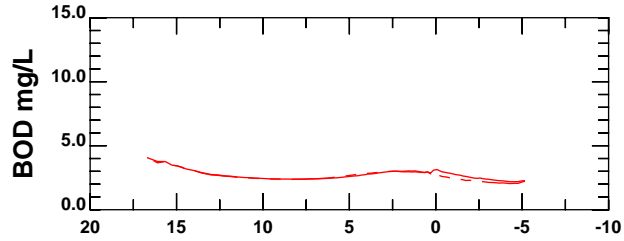
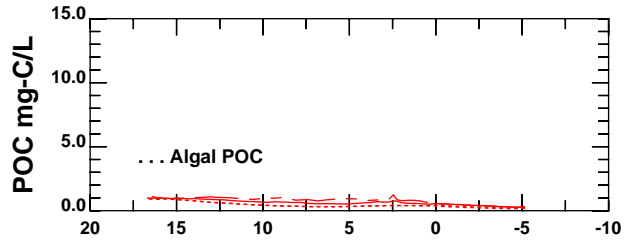
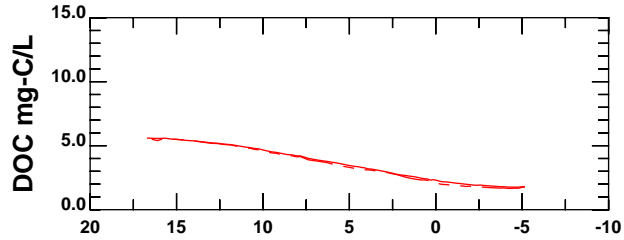
**DATA**  
NJHGD Dec 04,2001

**MODEL**

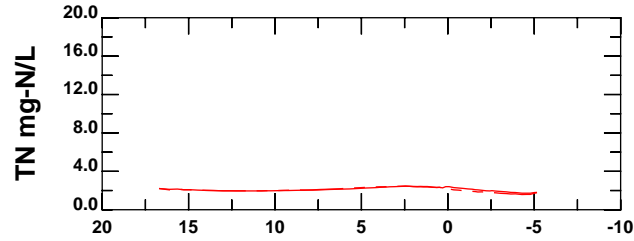
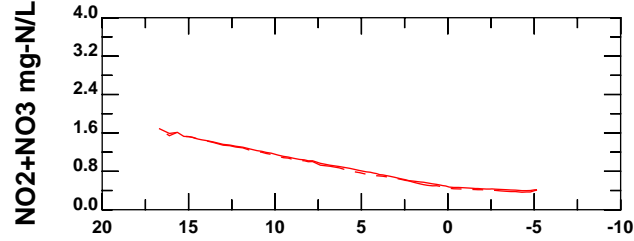
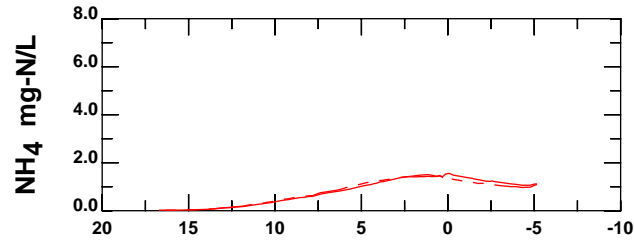
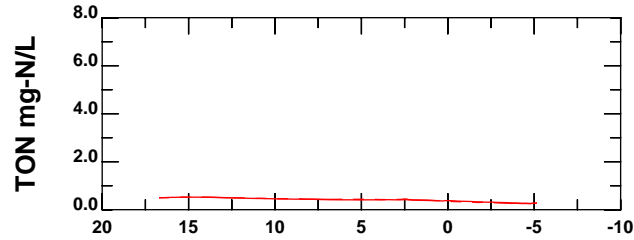
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

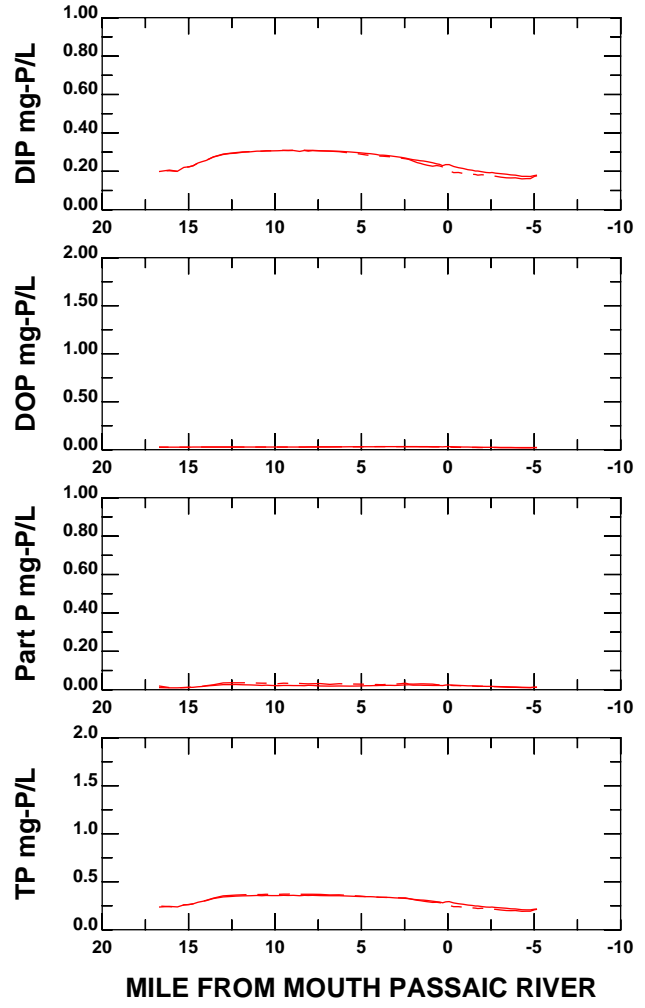
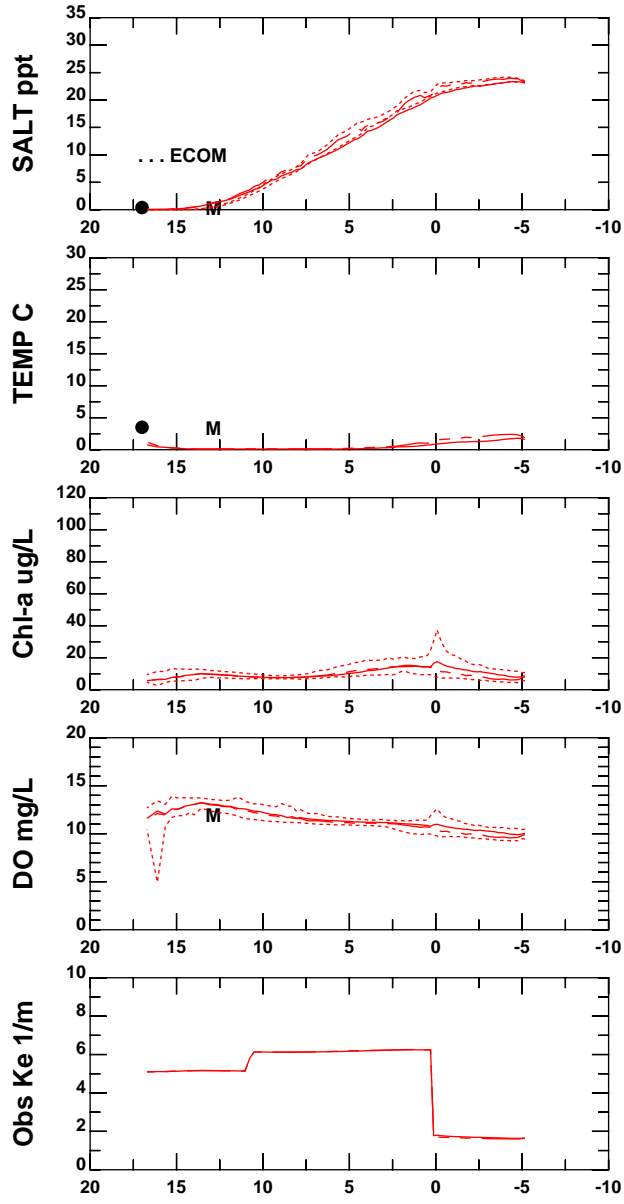
DATA  
NJHDG Dec 04,2001

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



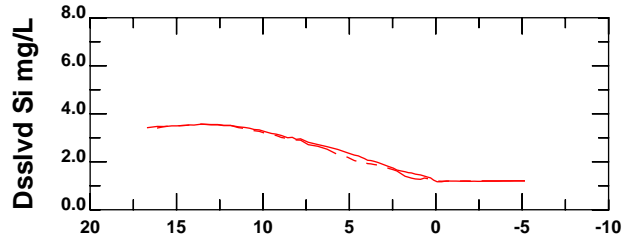
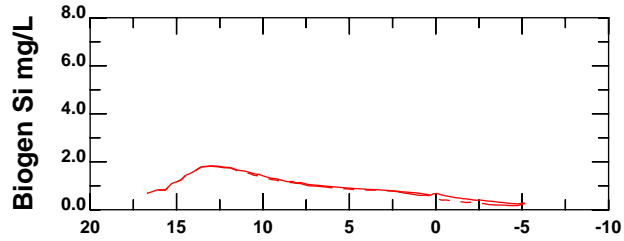
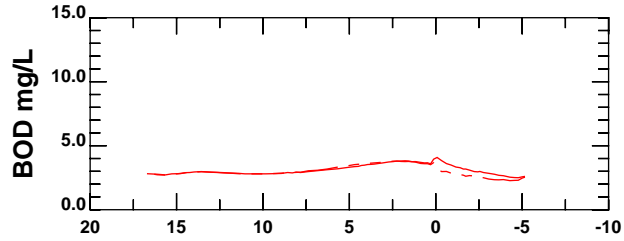
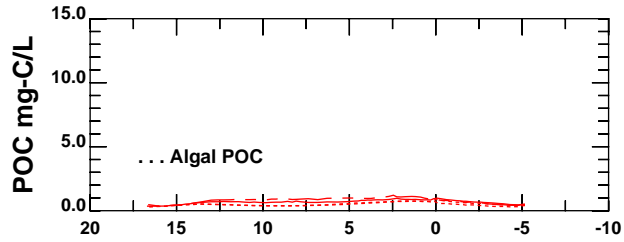
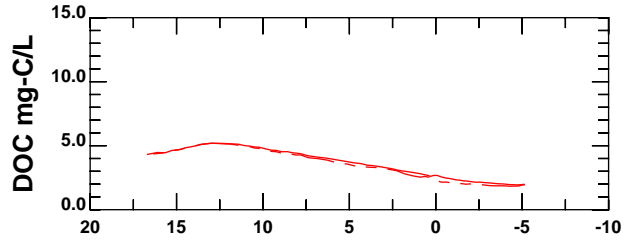
**DATA**  
NJHDG Jan 08,2002

**MODEL**

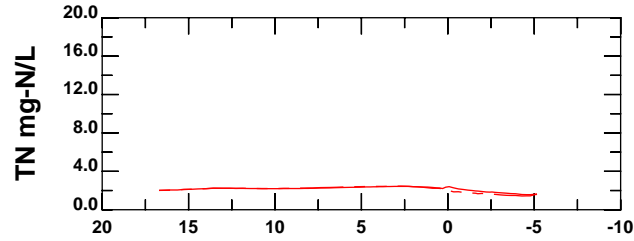
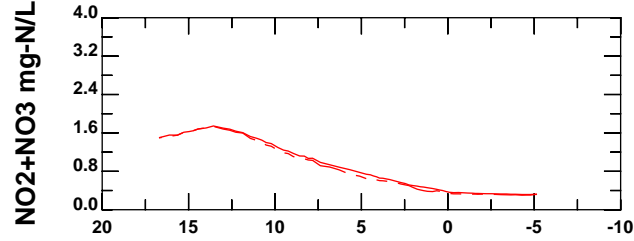
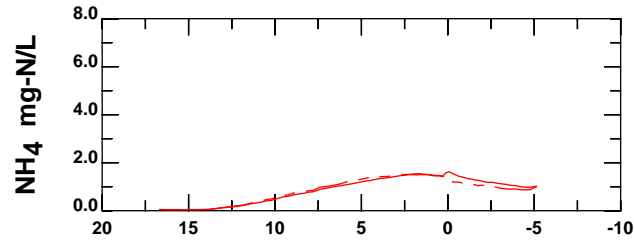
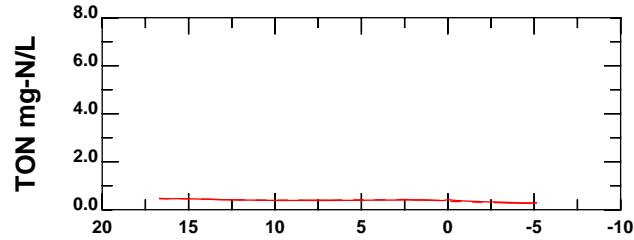
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

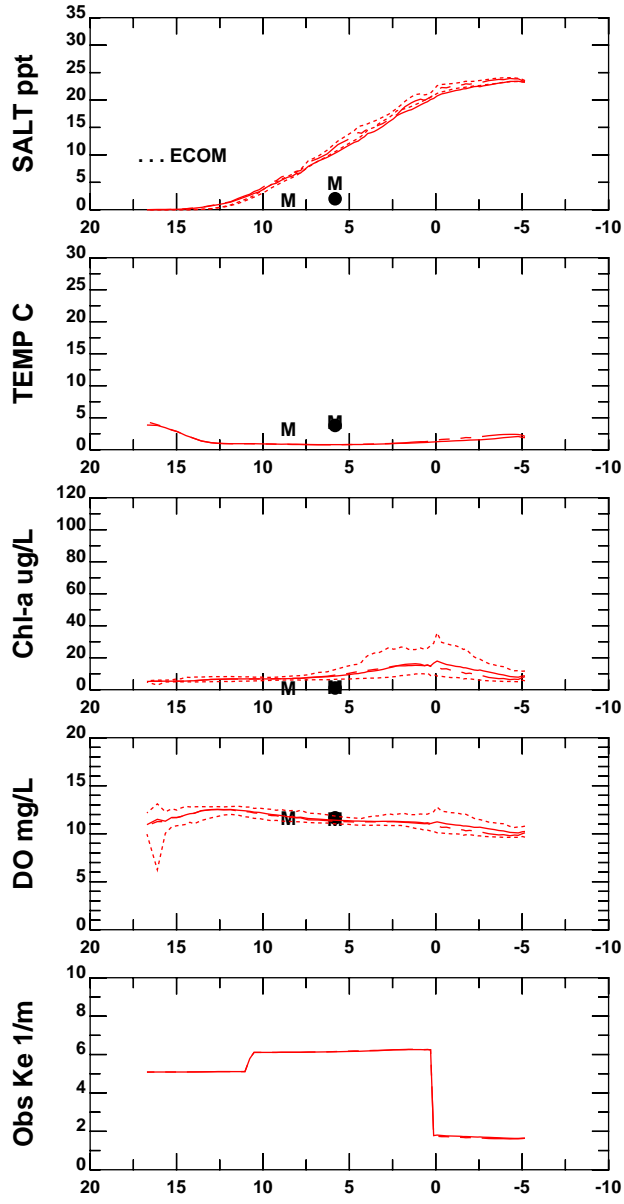
DATA  
NJHDG Jan 08,2002

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

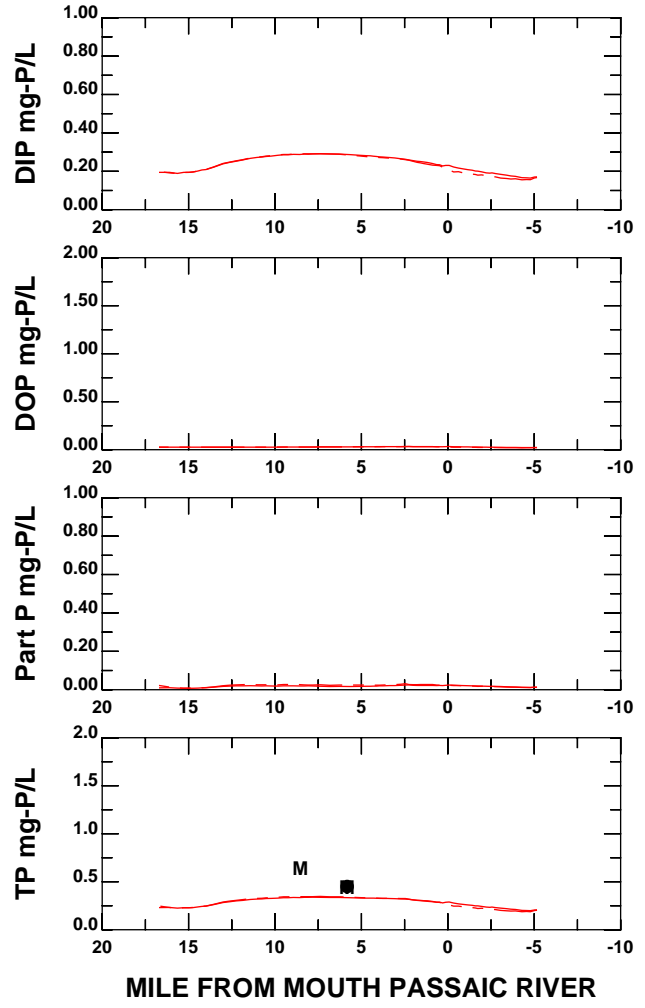
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



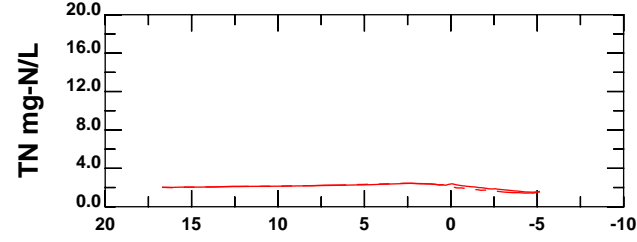
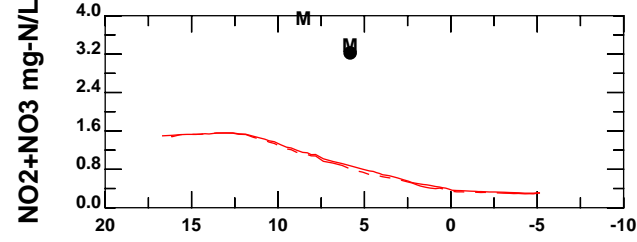
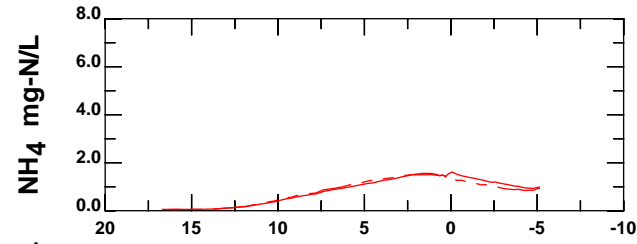
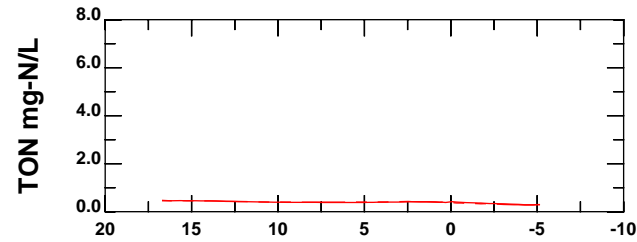
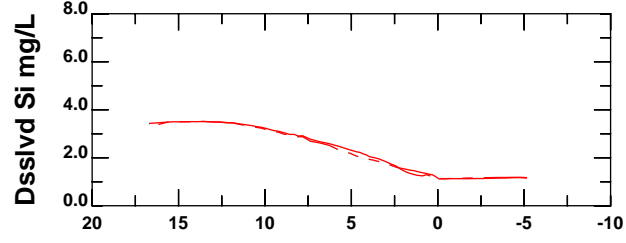
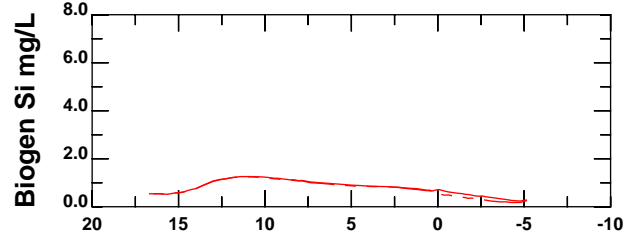
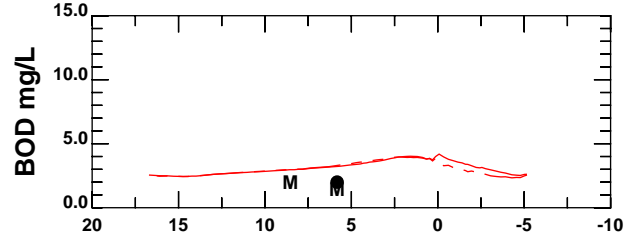
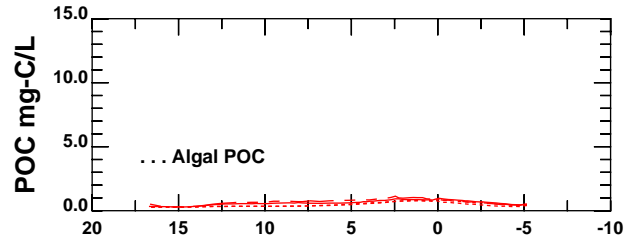
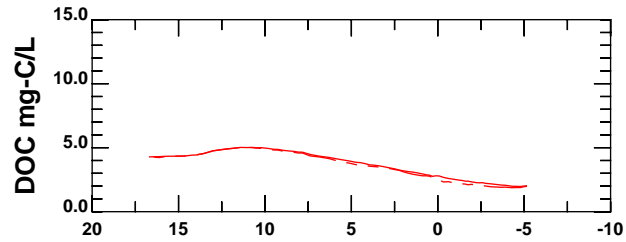
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Jan 10,2002

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jan 10,2002

SURF BOTT MID

▲ ▼ ●  
T B M

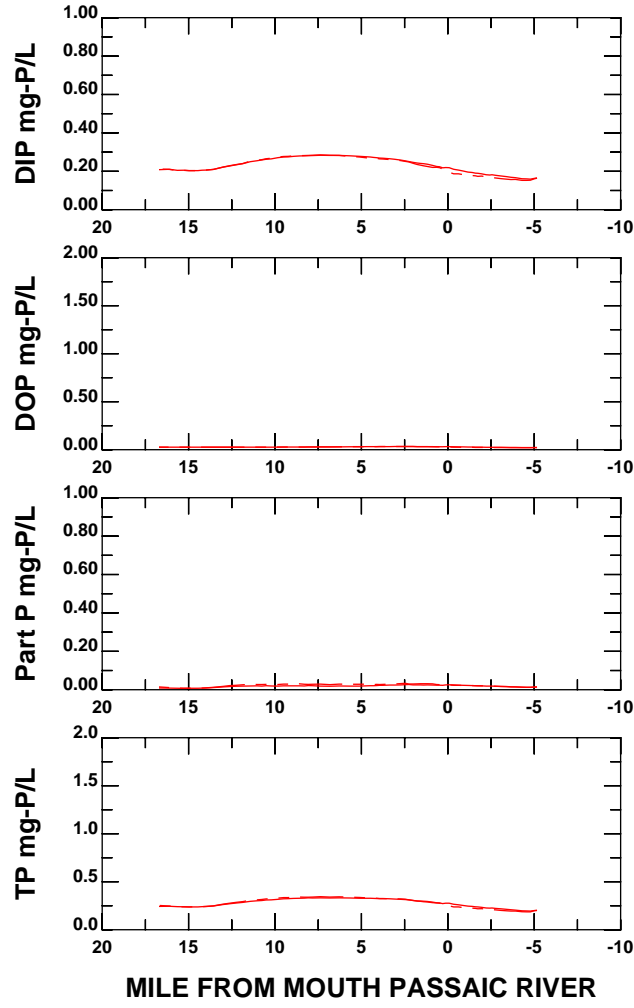
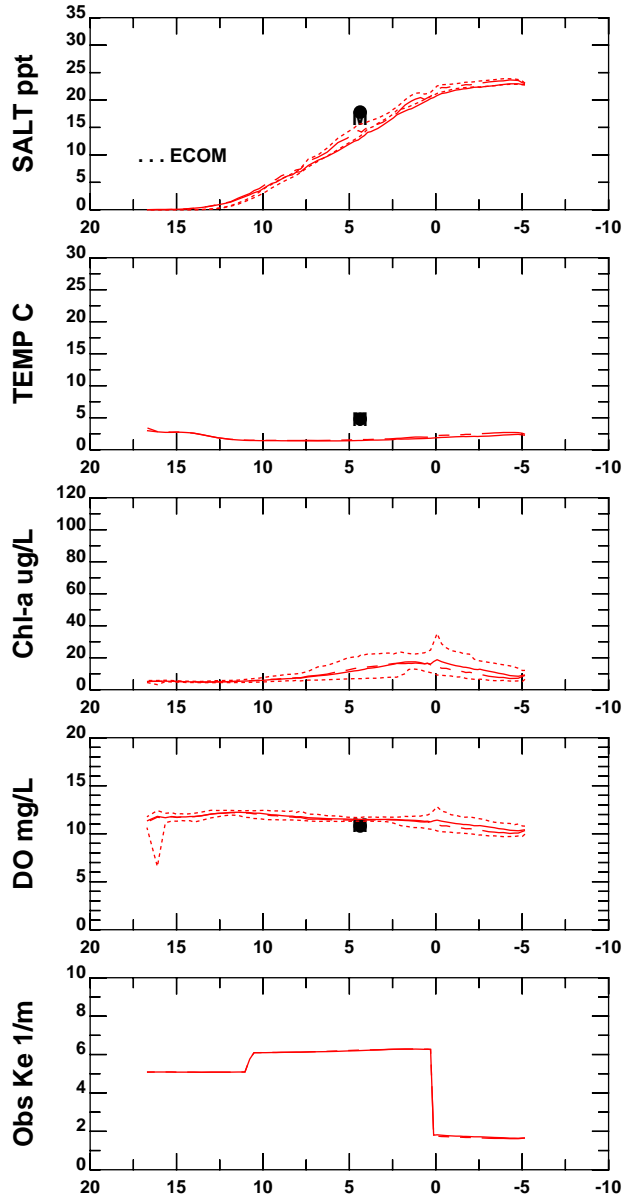
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



**DATA**  
NJHDG Jan 17,2002

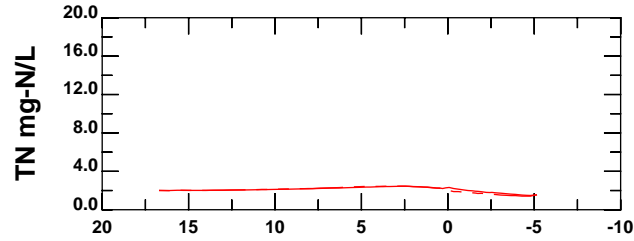
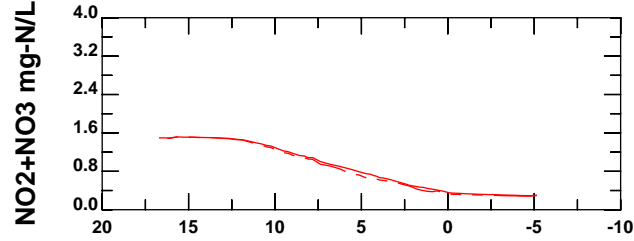
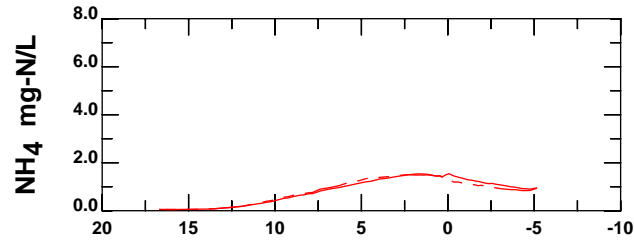
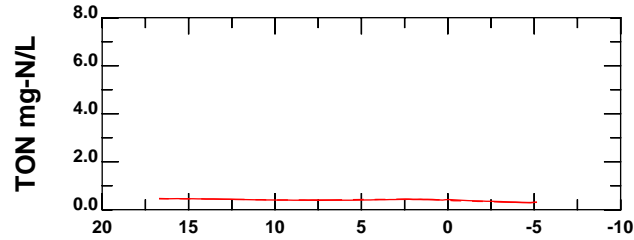
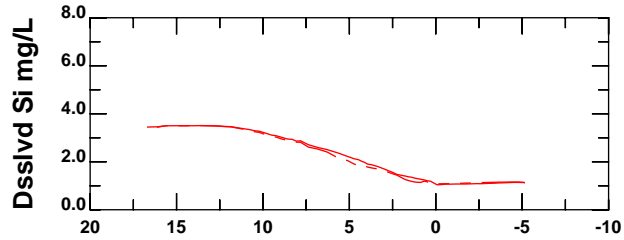
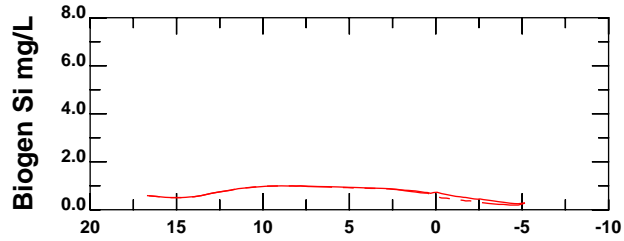
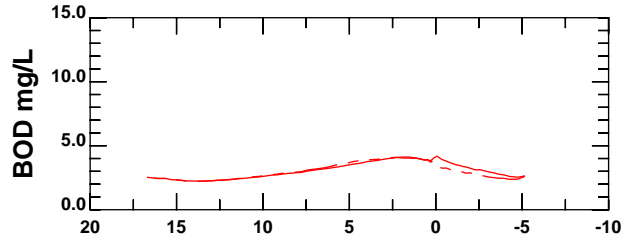
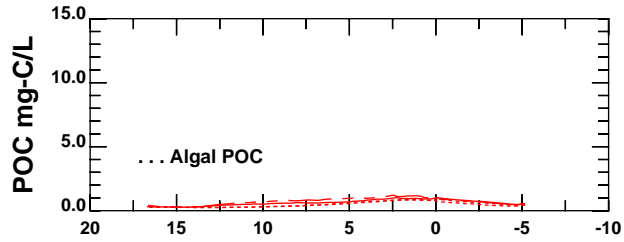
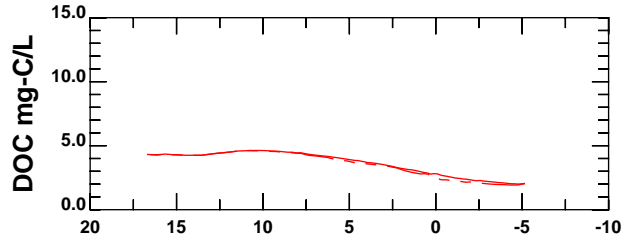
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102





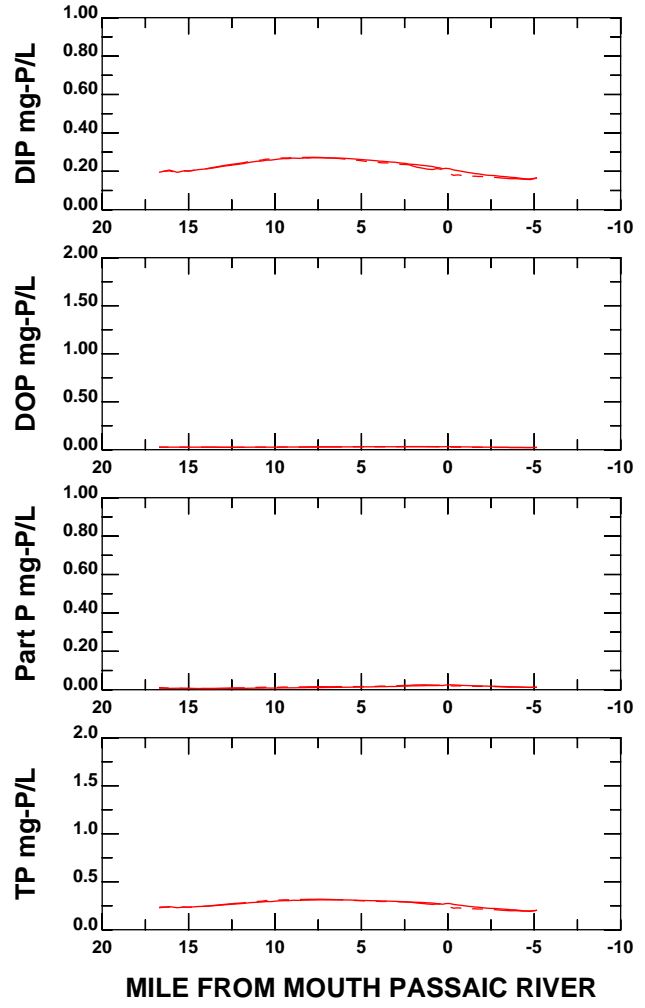
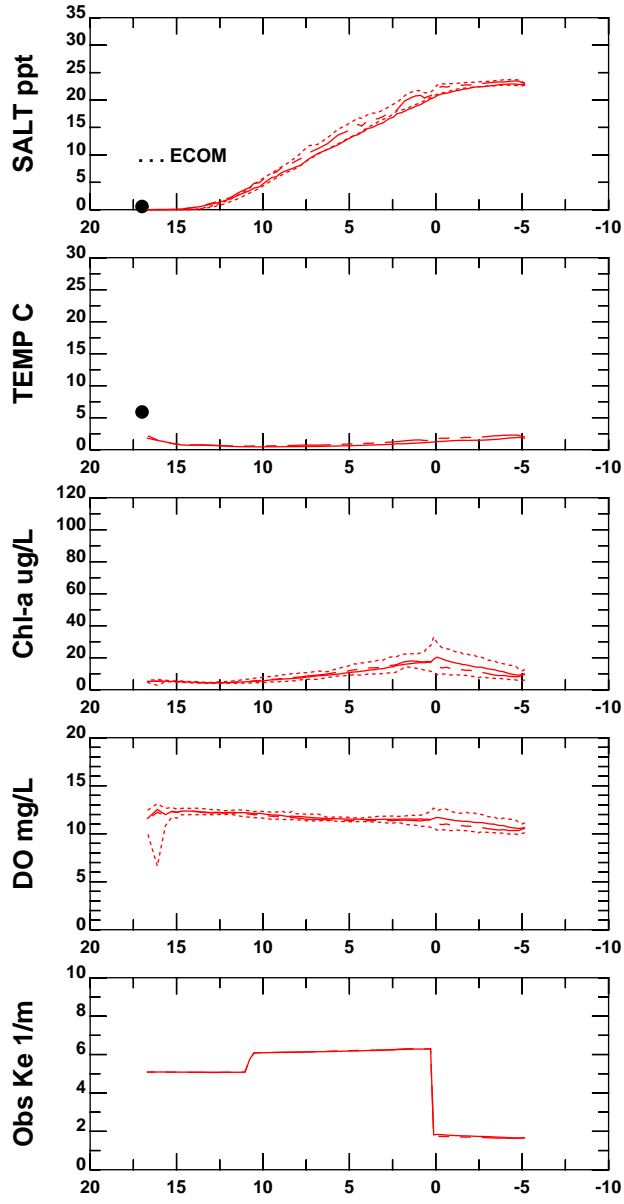
DATA  
NJHDG Jan 17, 2002

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



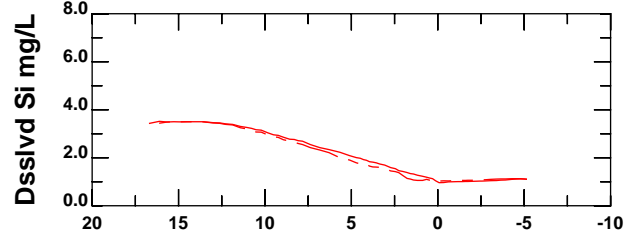
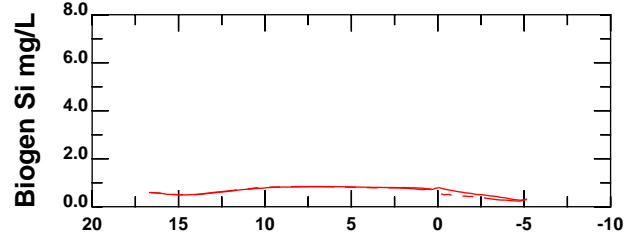
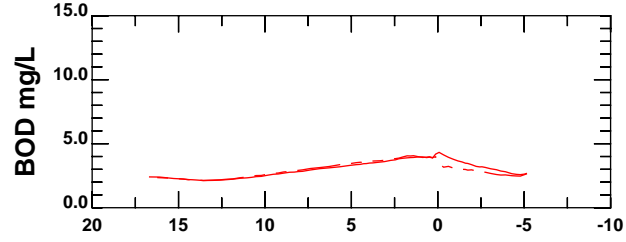
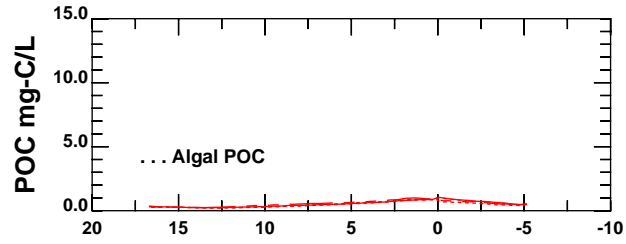
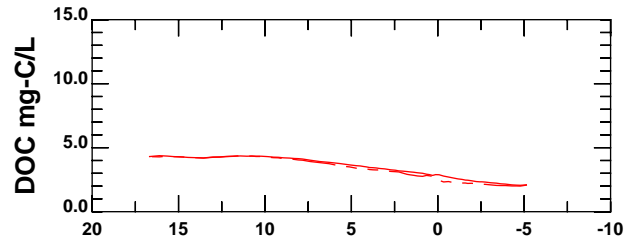
**DATA**  
NJHDG Jan 23,2002

**MODEL**

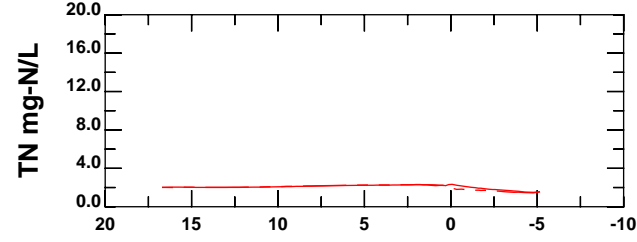
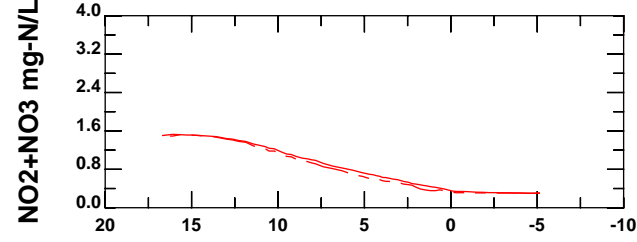
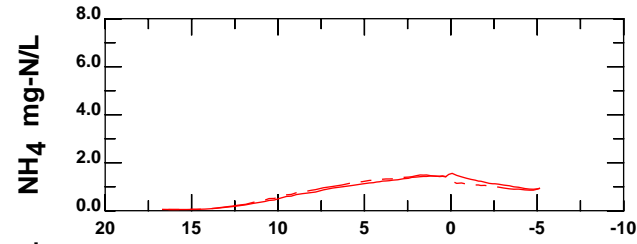
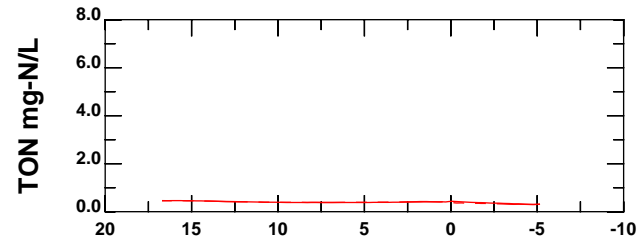
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jan 23,2002

SURF BOTT MID

▲ ▼ ●  
T B M

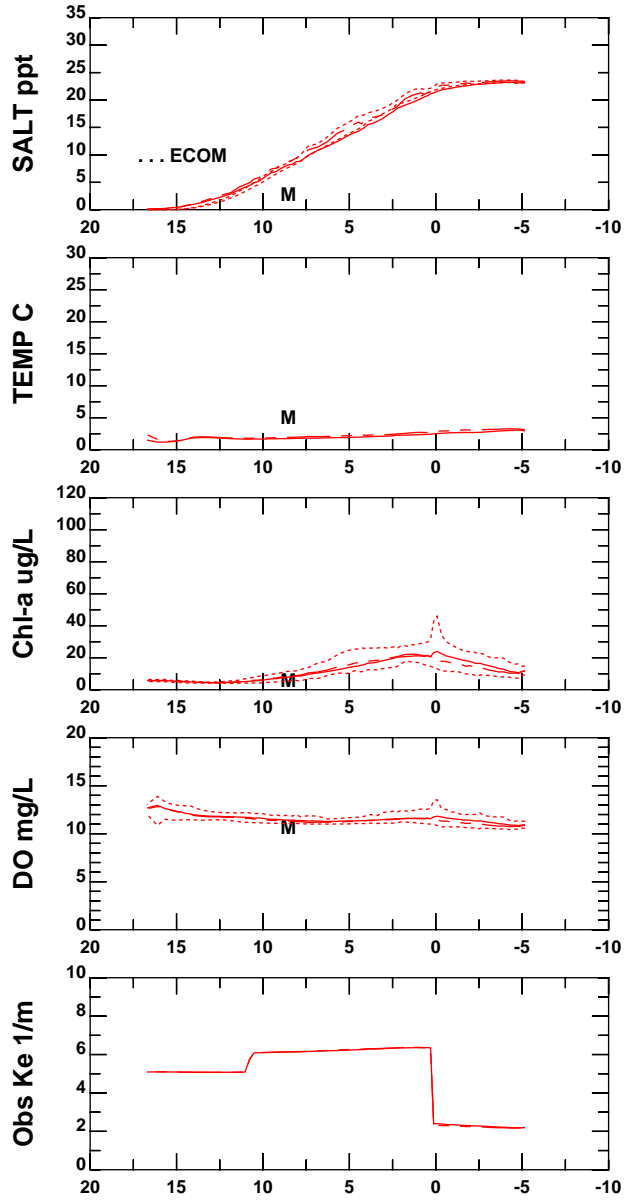
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

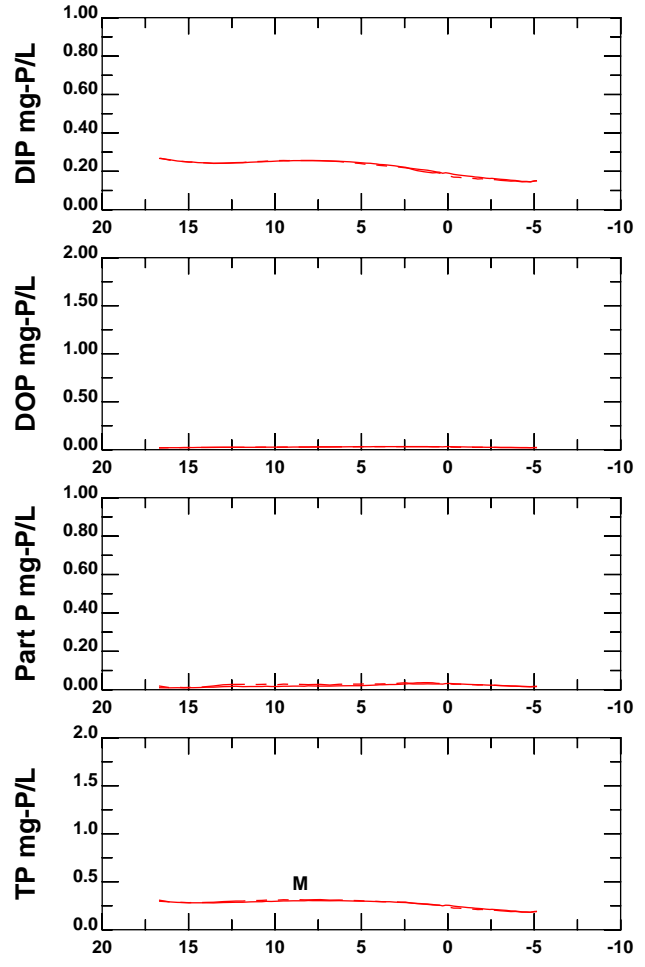
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



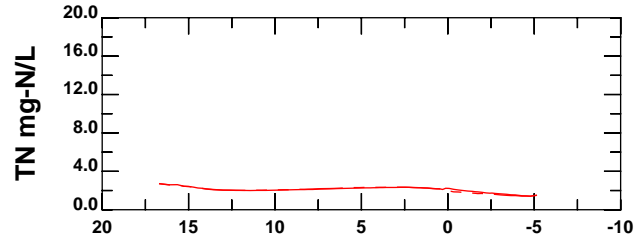
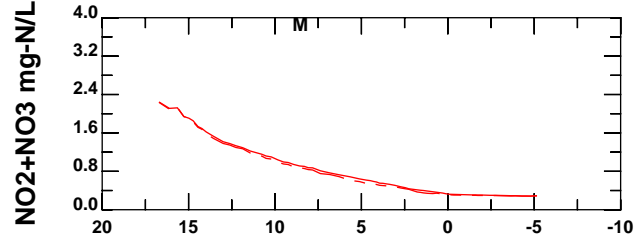
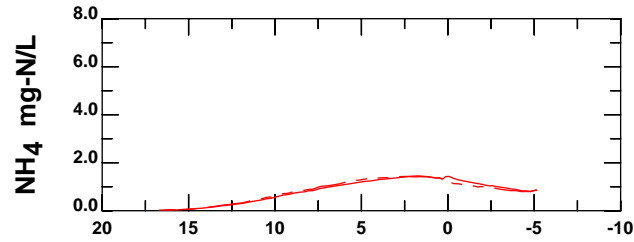
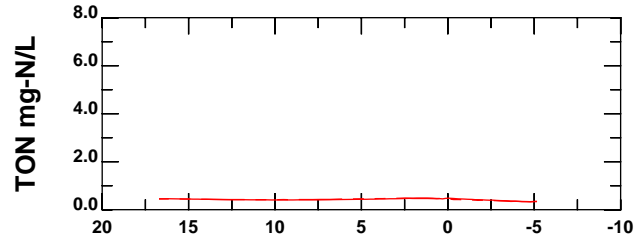
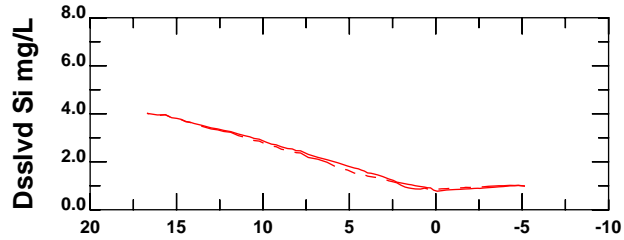
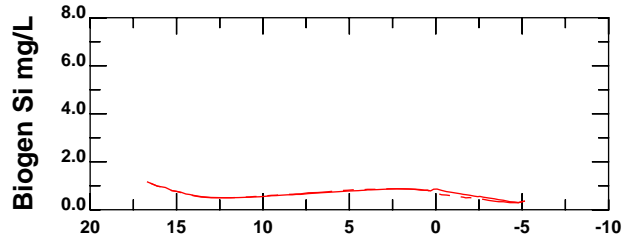
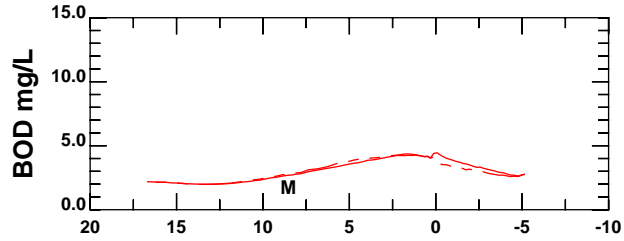
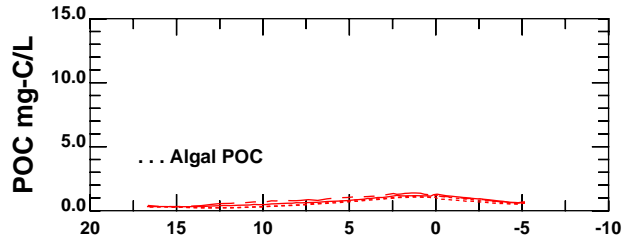
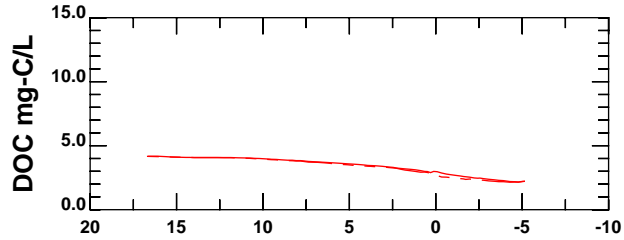
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Feb 05,2002

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



DATA  
NJHDG Feb 05,2002

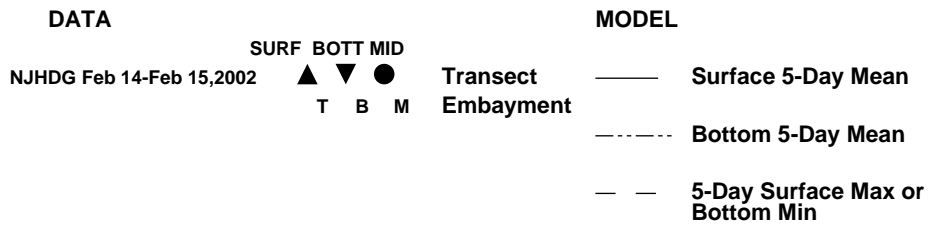
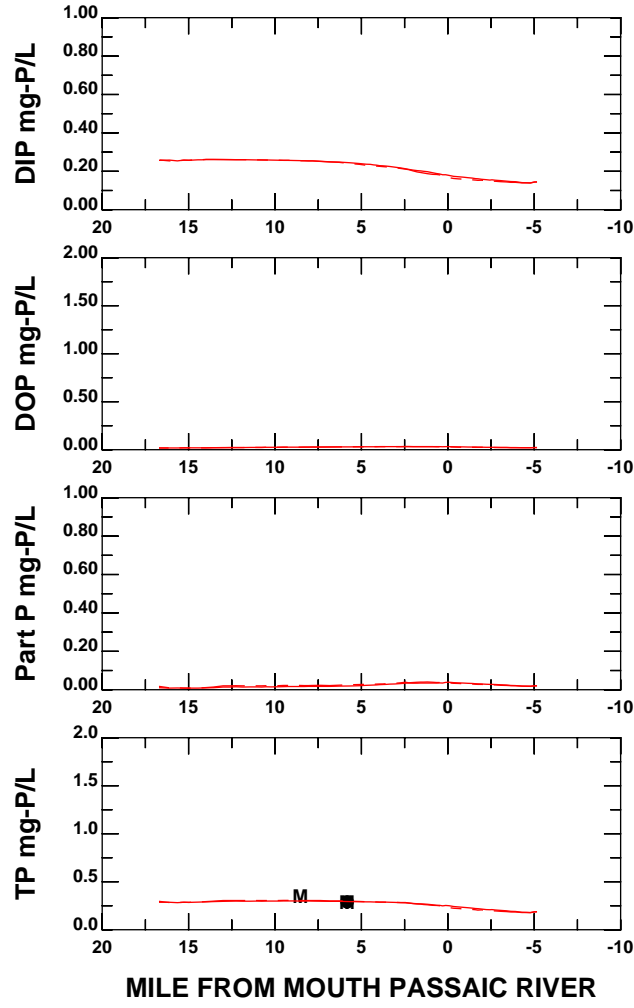
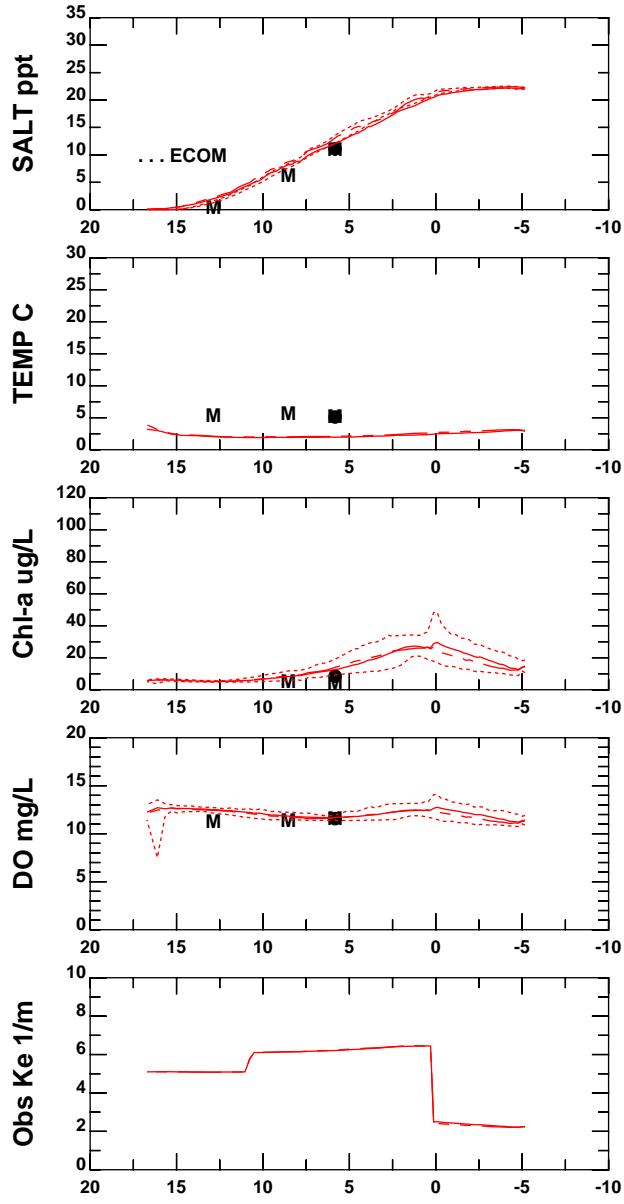
MODEL

SURF BOTT MID  
▲ ▼ ●  
T B M

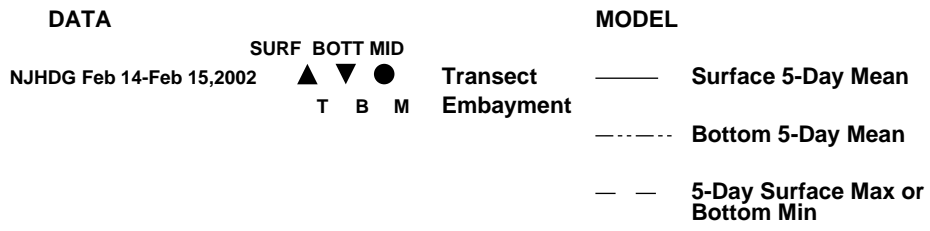
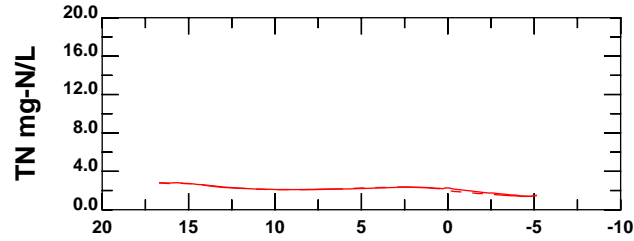
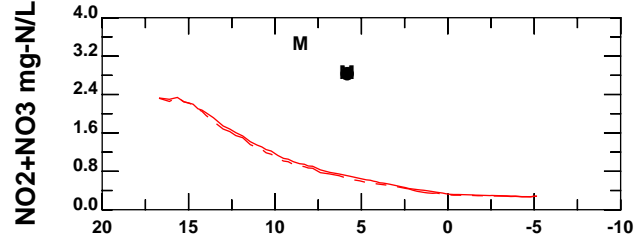
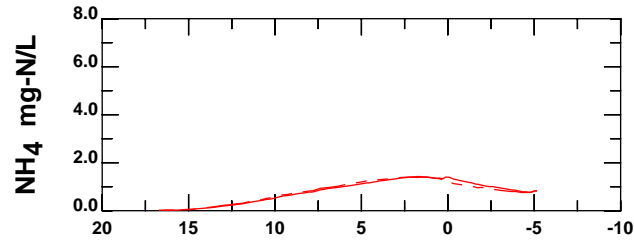
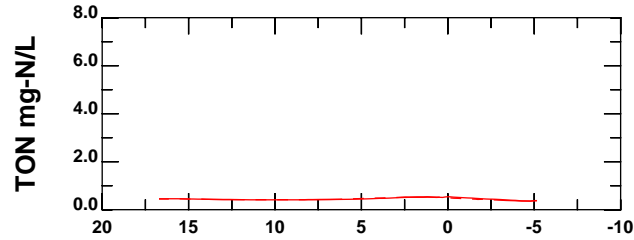
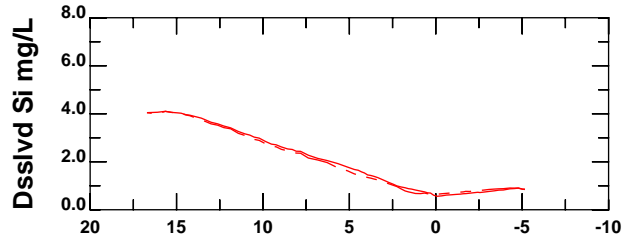
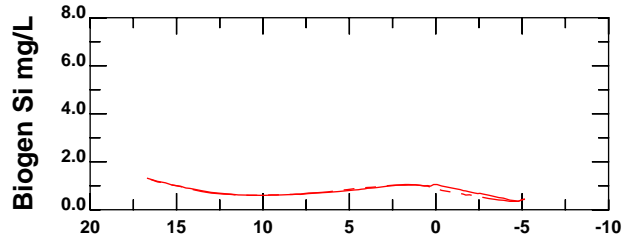
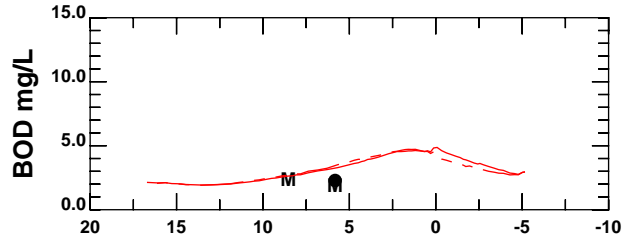
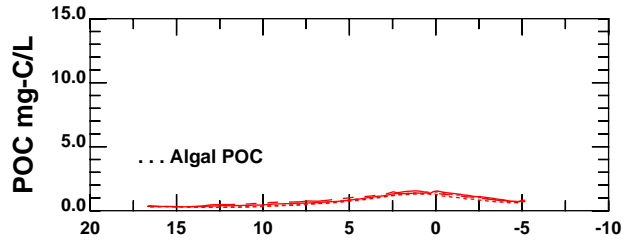
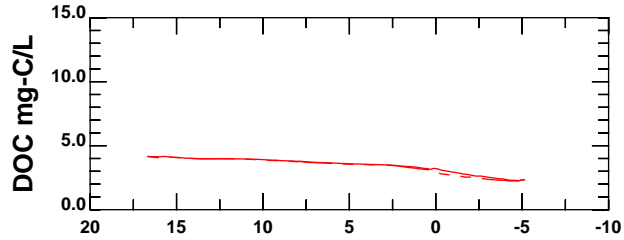
Transect  
Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

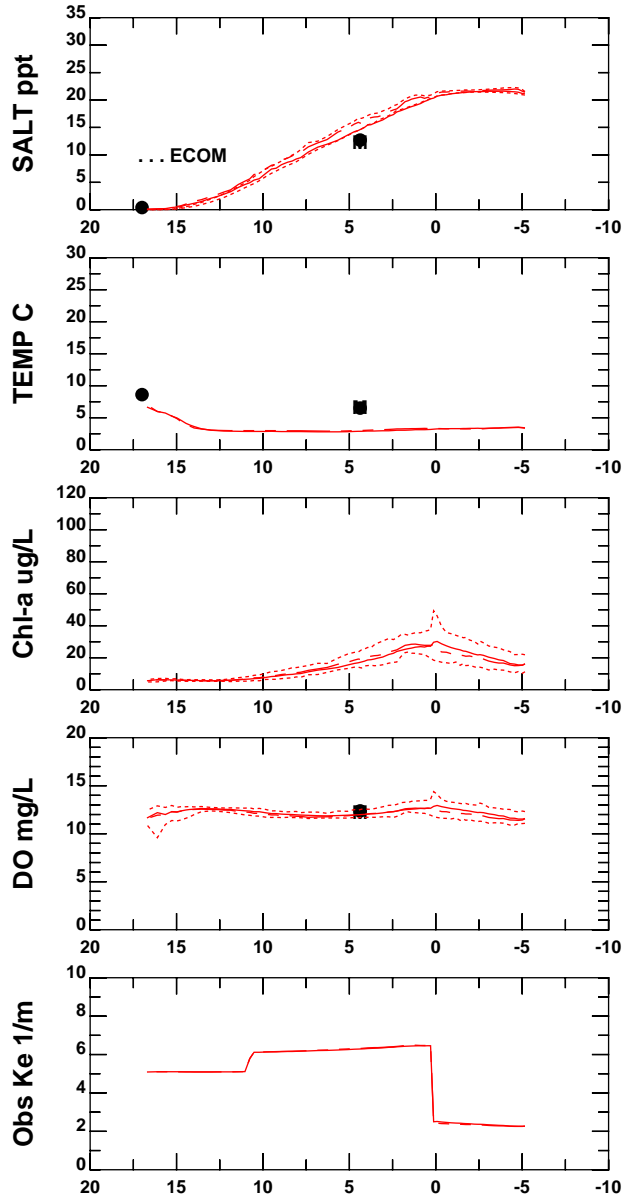
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102

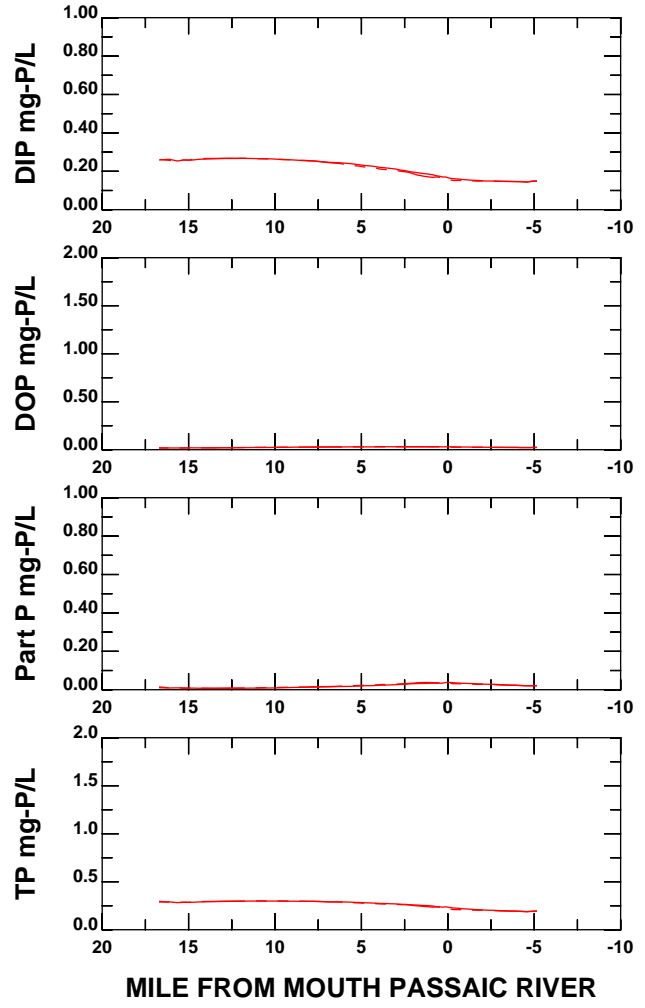


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

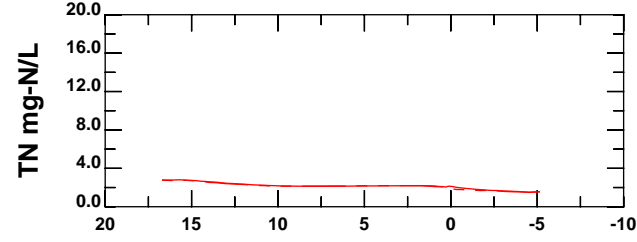
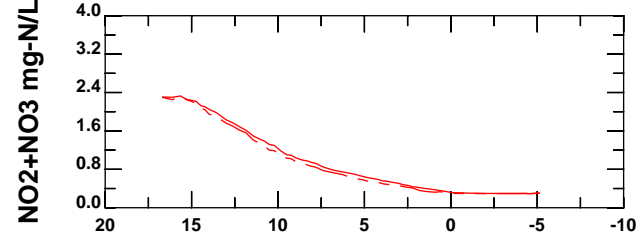
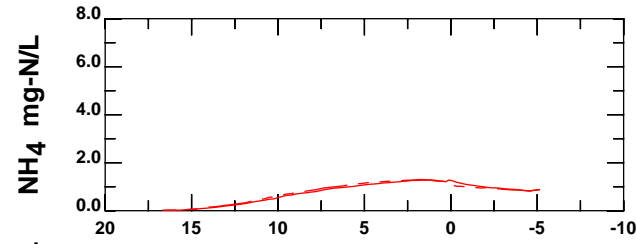
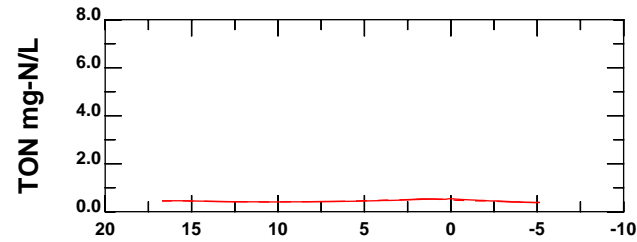
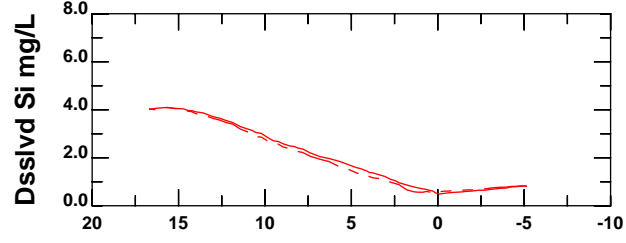
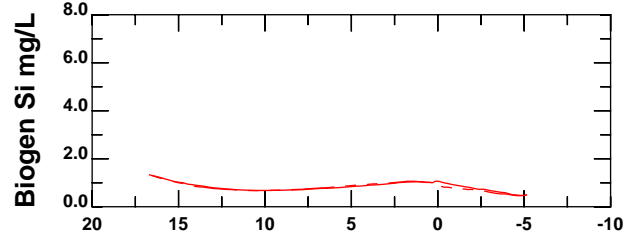
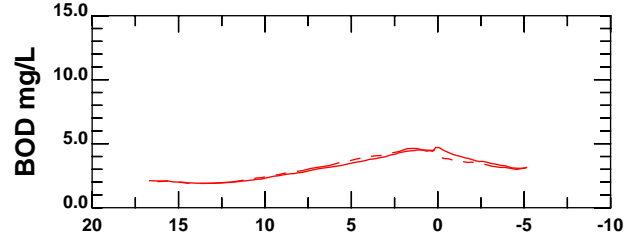
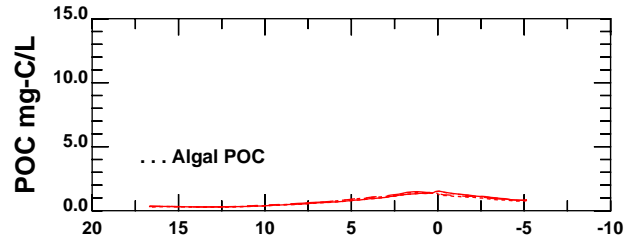
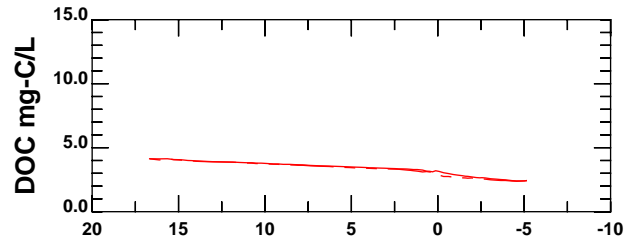
DATA  
 NJHDG Feb 20,2002

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Feb 20,2002

SURF BOTT MID

▲ ▼ ●  
T B M

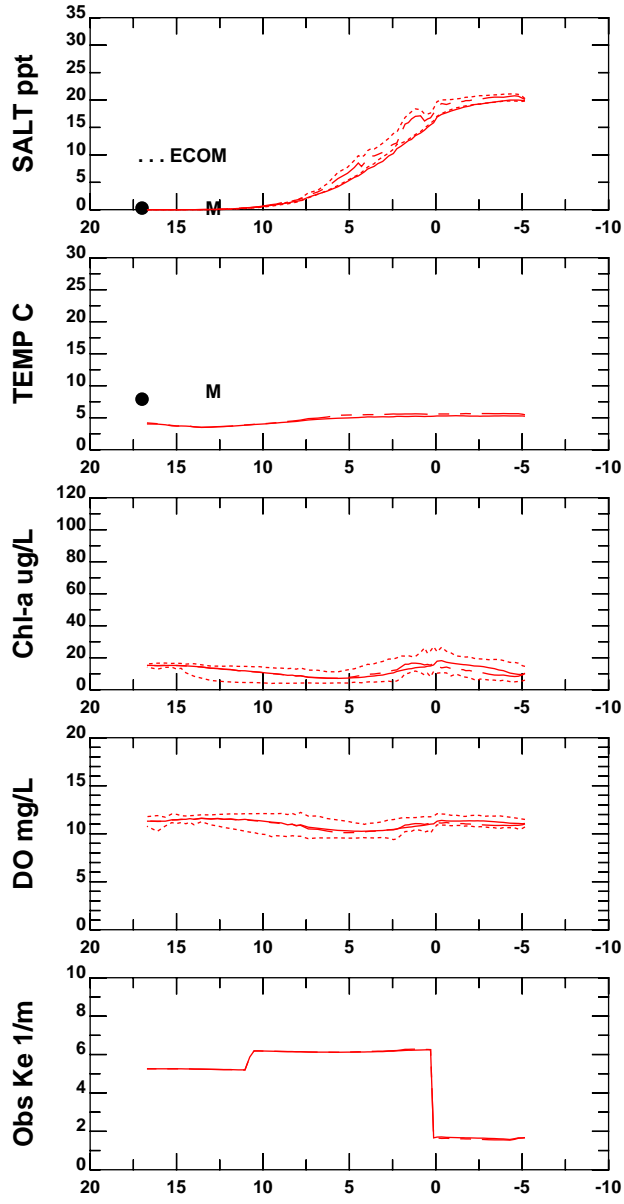
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

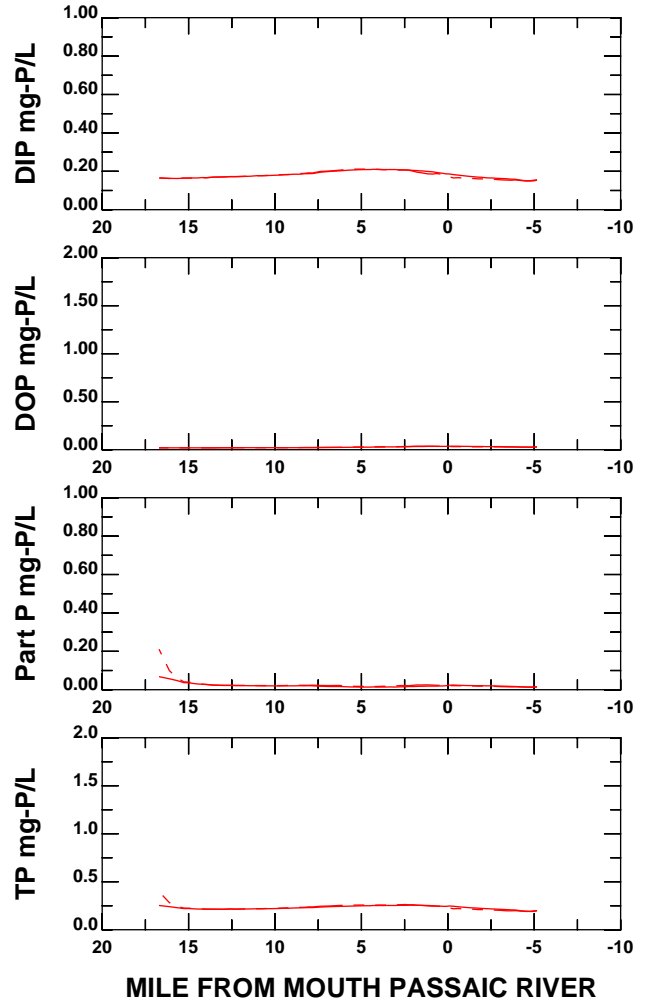
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102

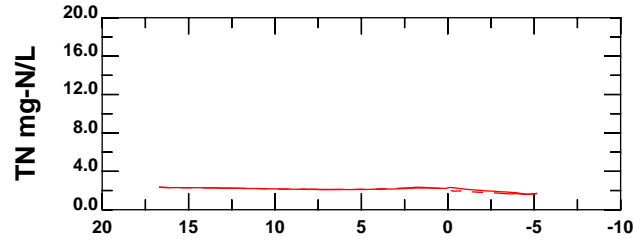
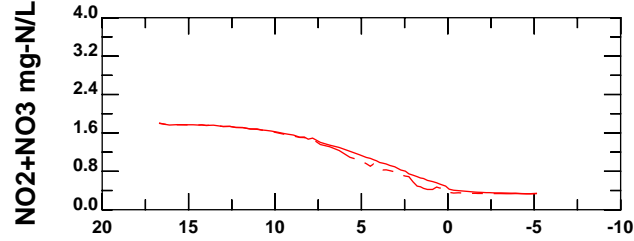
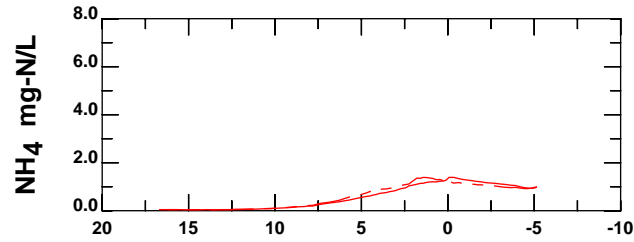
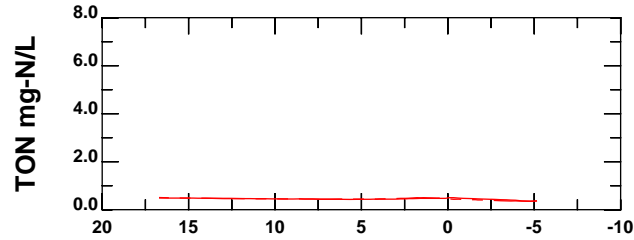
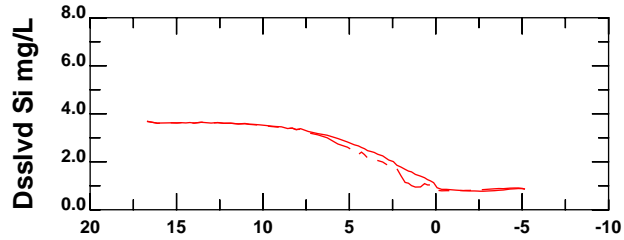
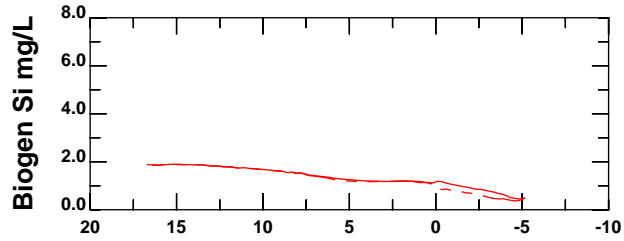
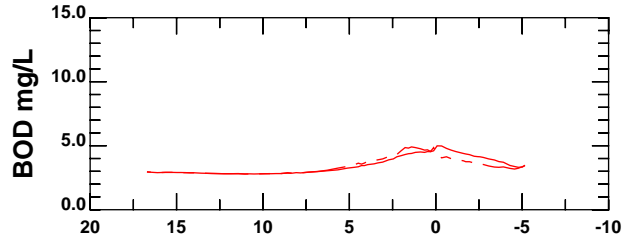
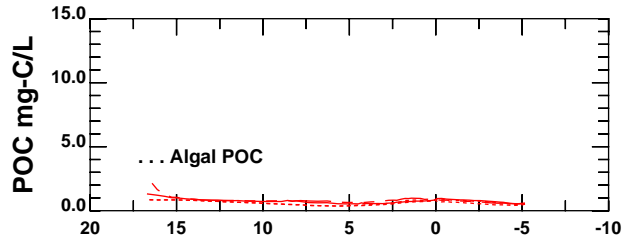
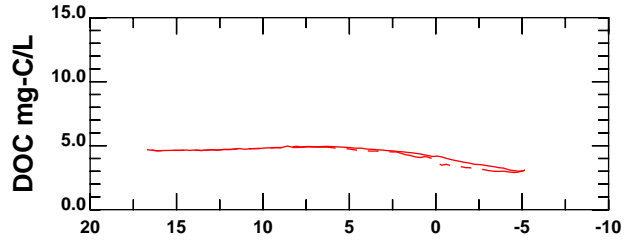


MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Mar 21,2002

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



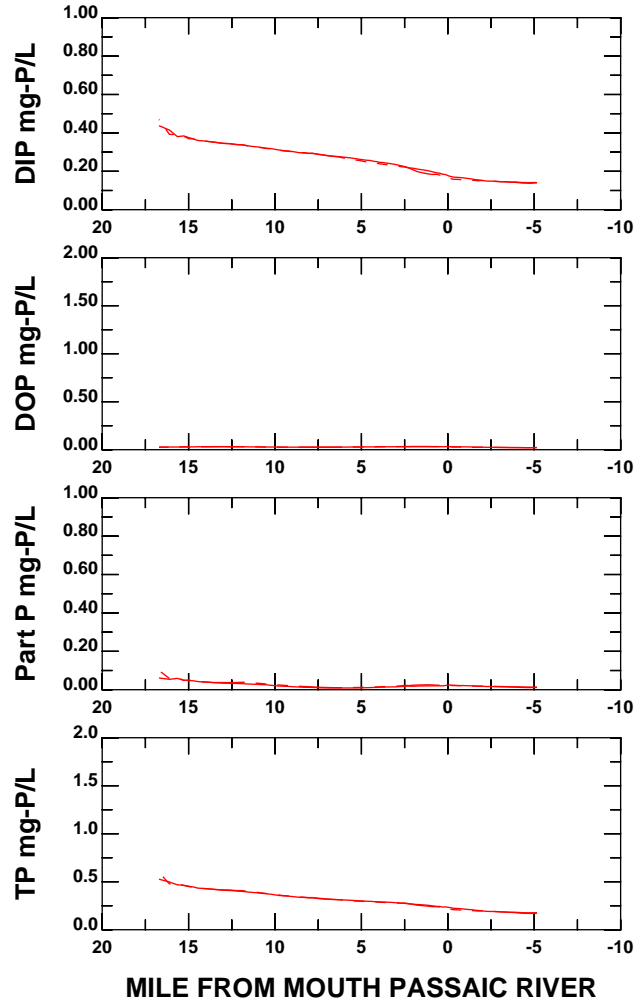
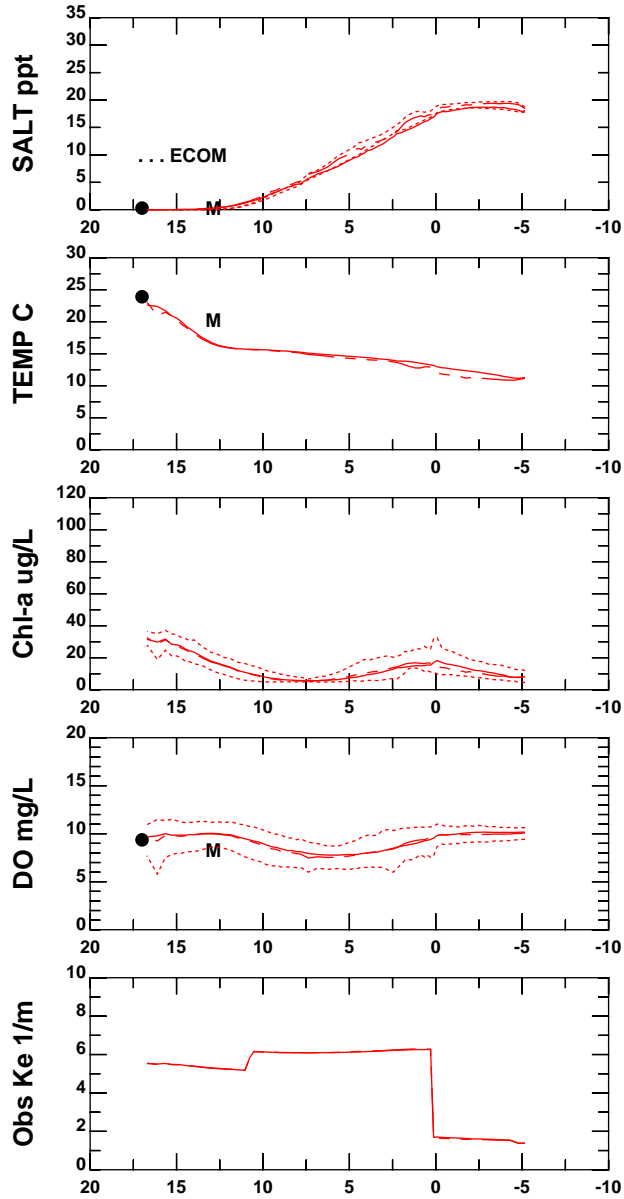
DATA  
NJHGD Mar 21,2002

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

MODEL  
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



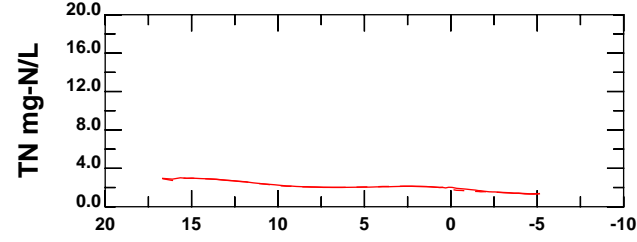
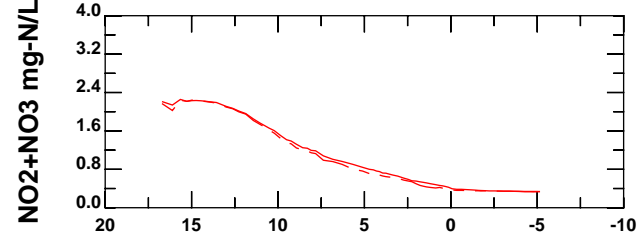
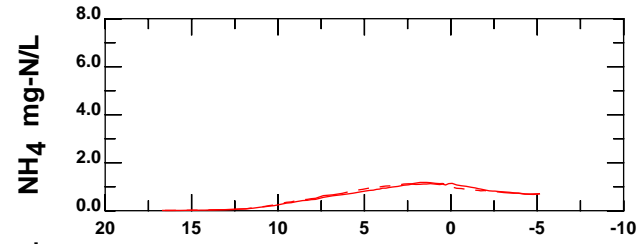
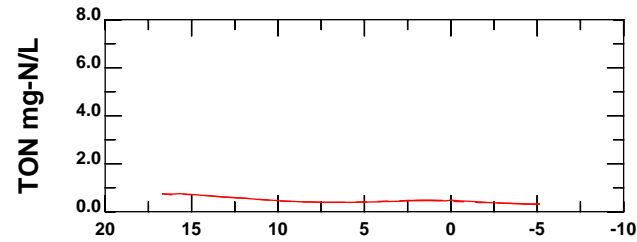
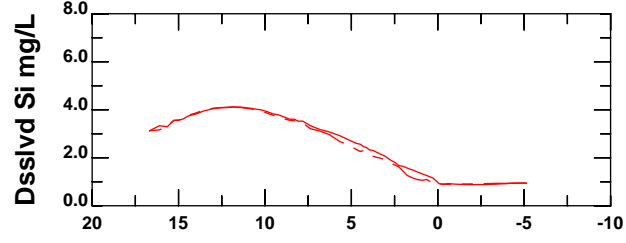
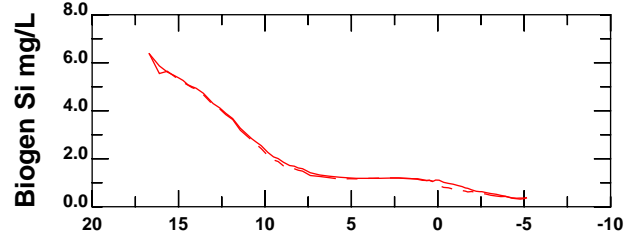
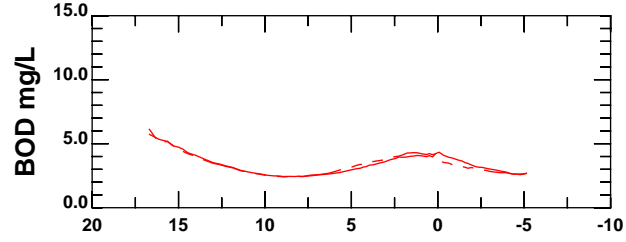
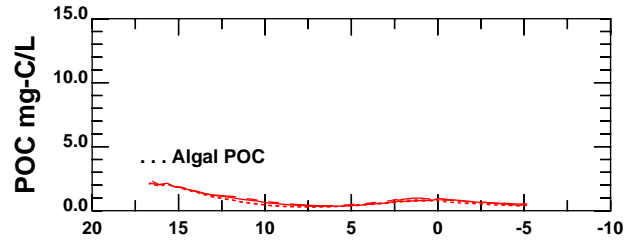
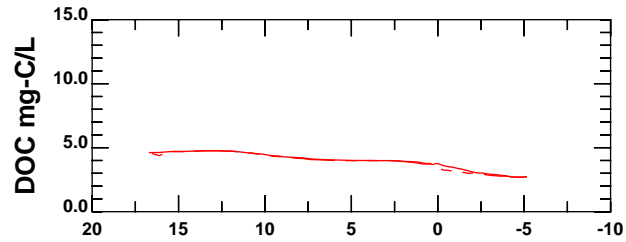
**DATA**  
NJHDG Apr 17,2002

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Apr 17,2002

SURF BOTT MID

▲ ▼ ●  
T B M

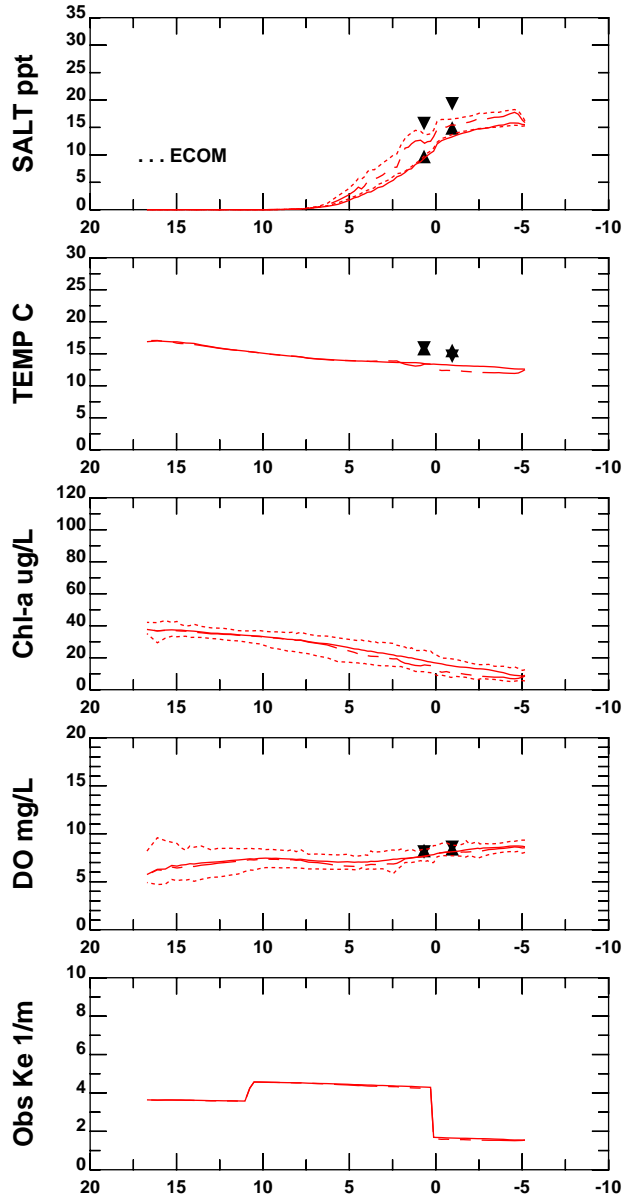
Transect  
Embayment

MODEL

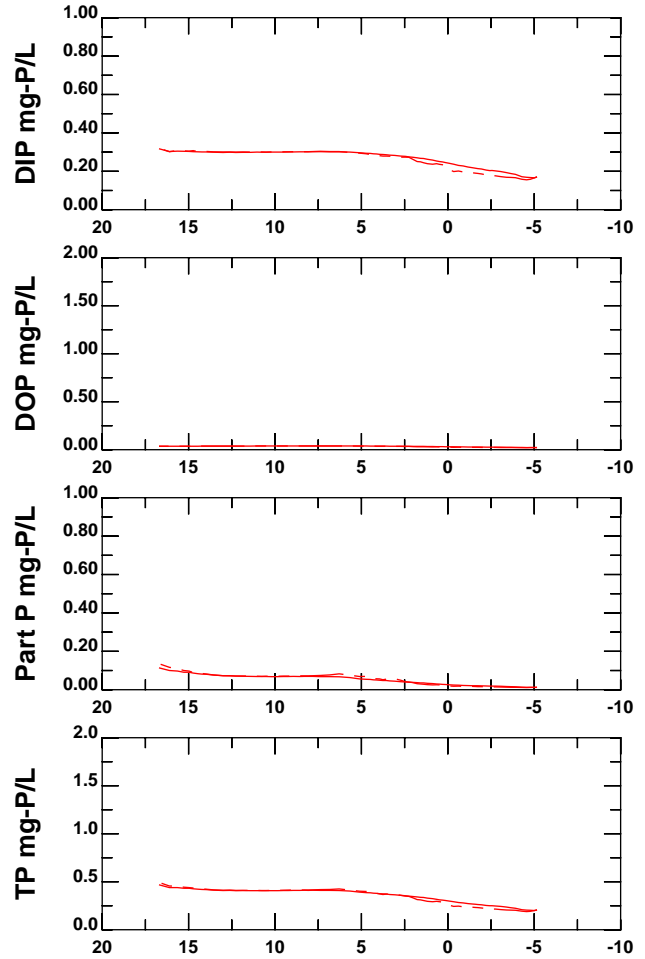
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

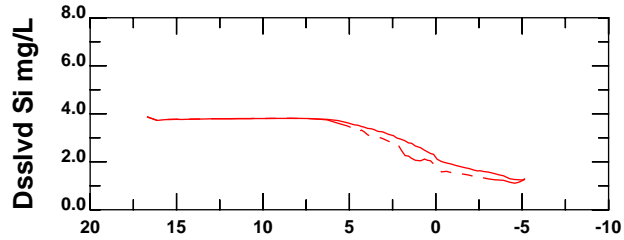
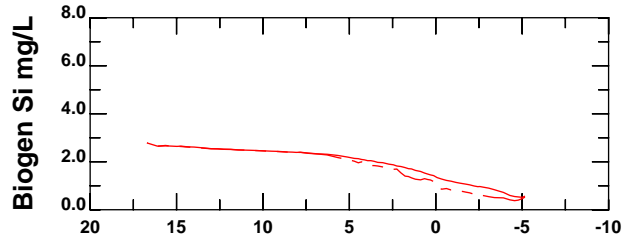
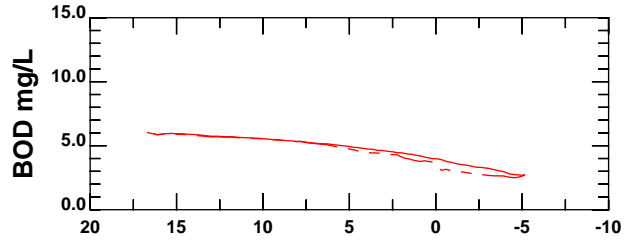
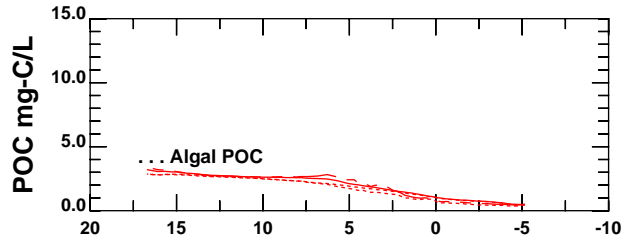
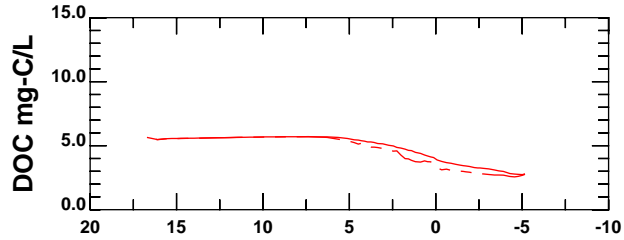
DATA  
NJHDG May 07,2002

MODEL

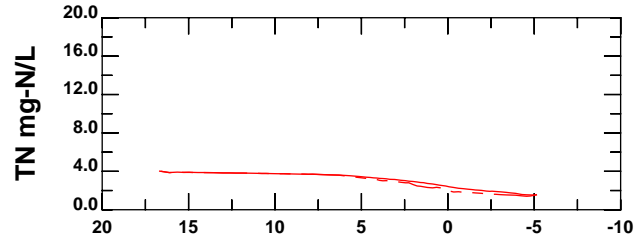
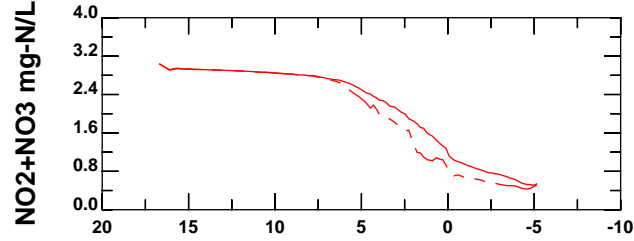
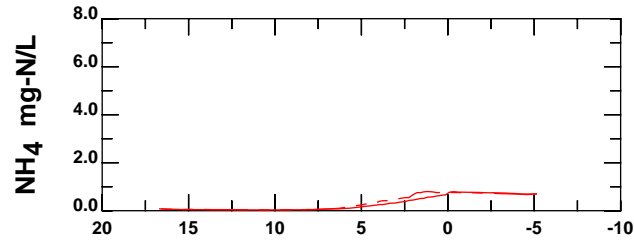
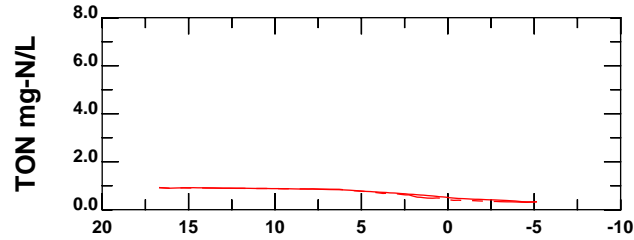
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



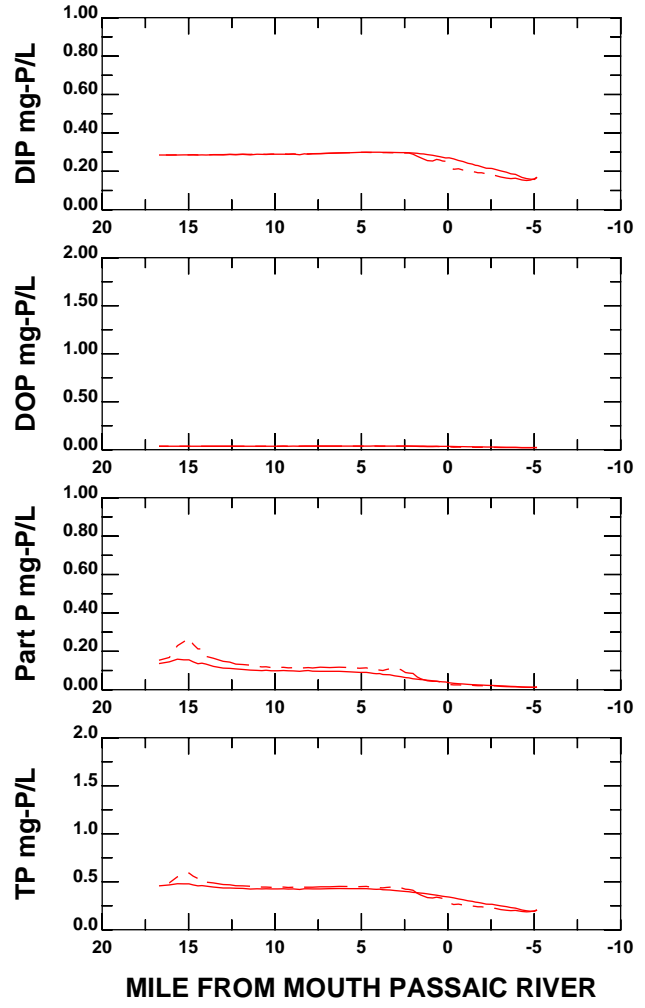
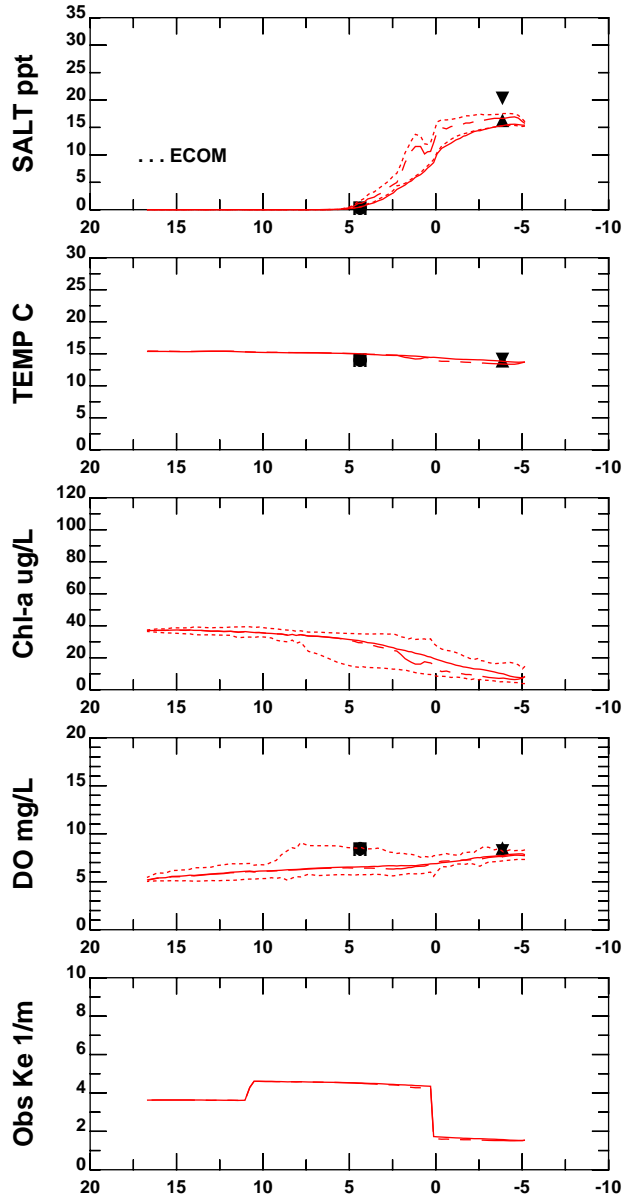
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG May 07,2002

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



**DATA**  
NJHDG May 15,2002

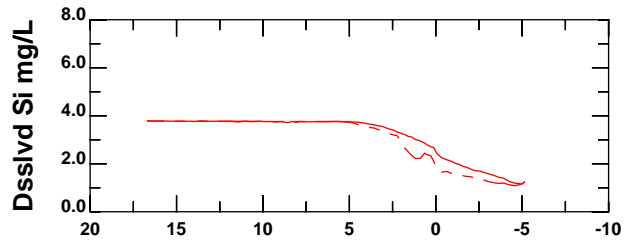
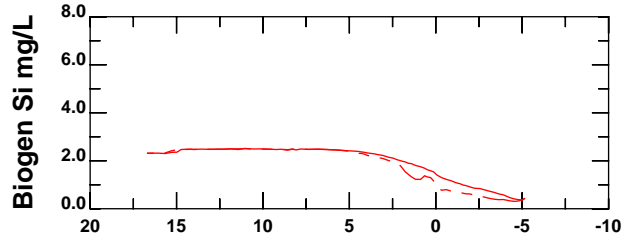
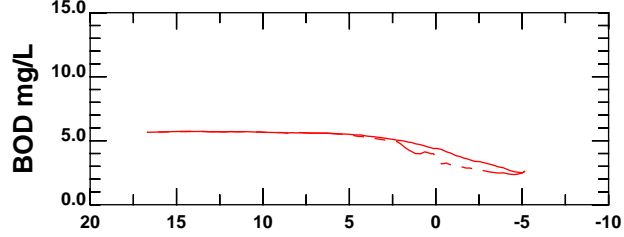
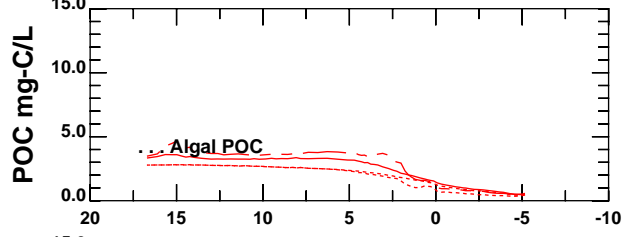
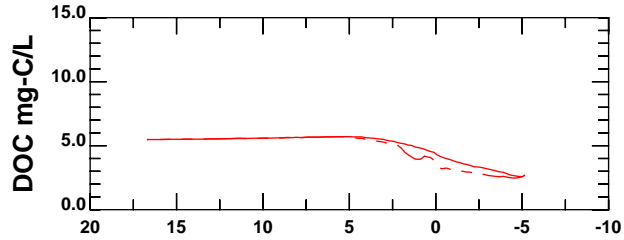
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

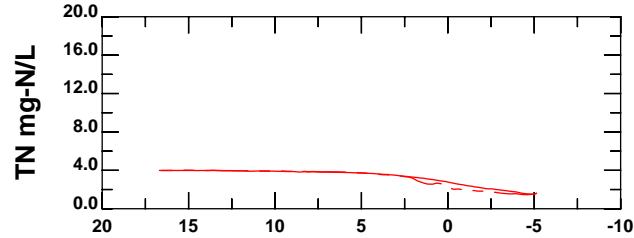
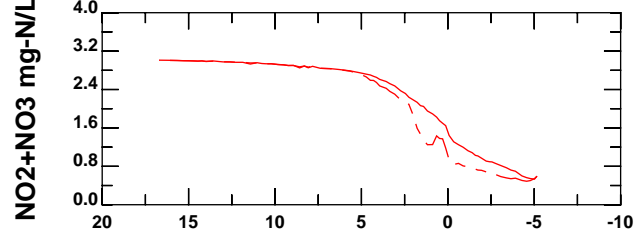
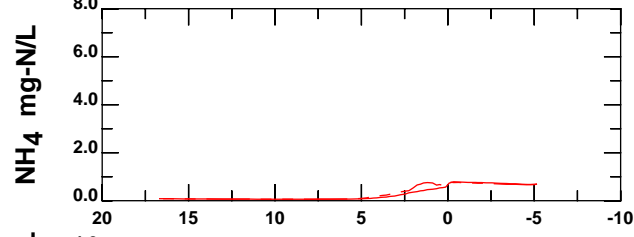
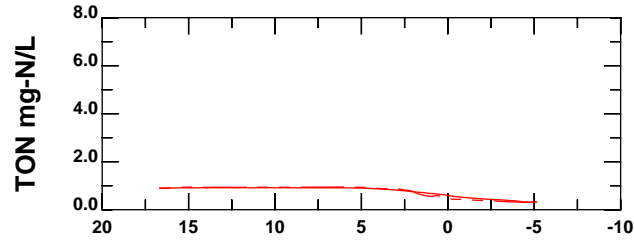
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG May 15,2002

SURF BOTT MID  
▲ ▼ ●  
T B M

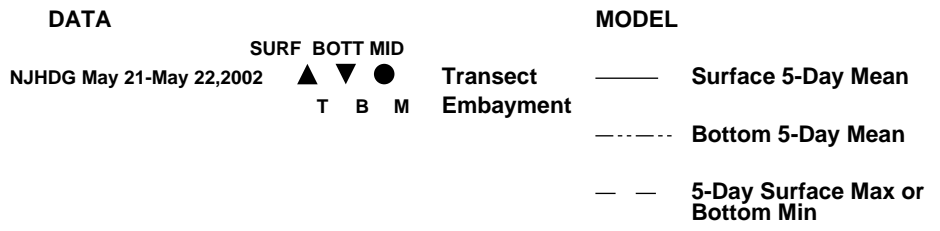
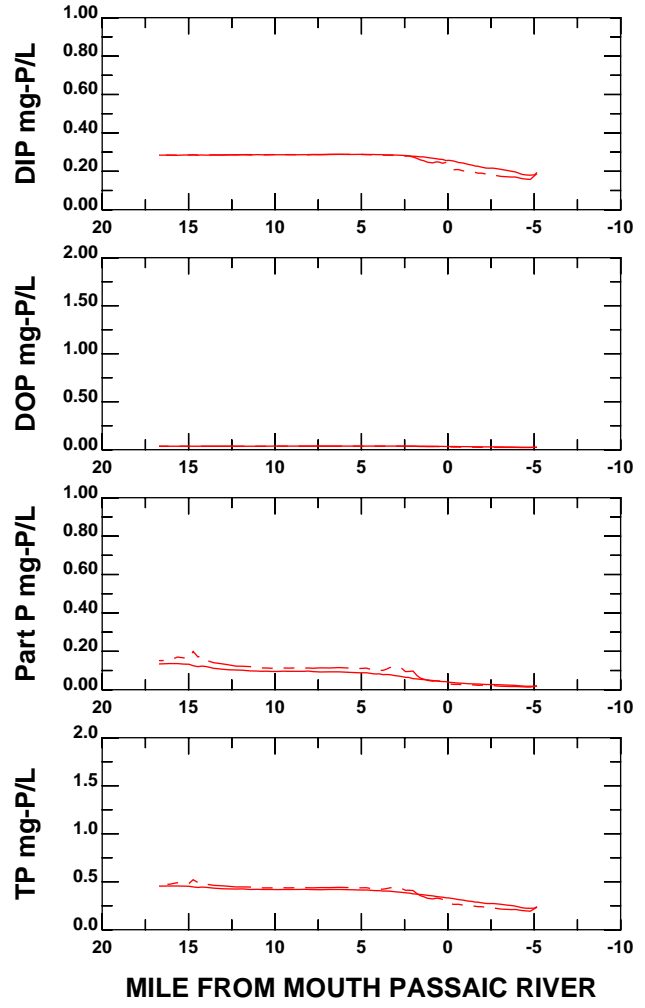
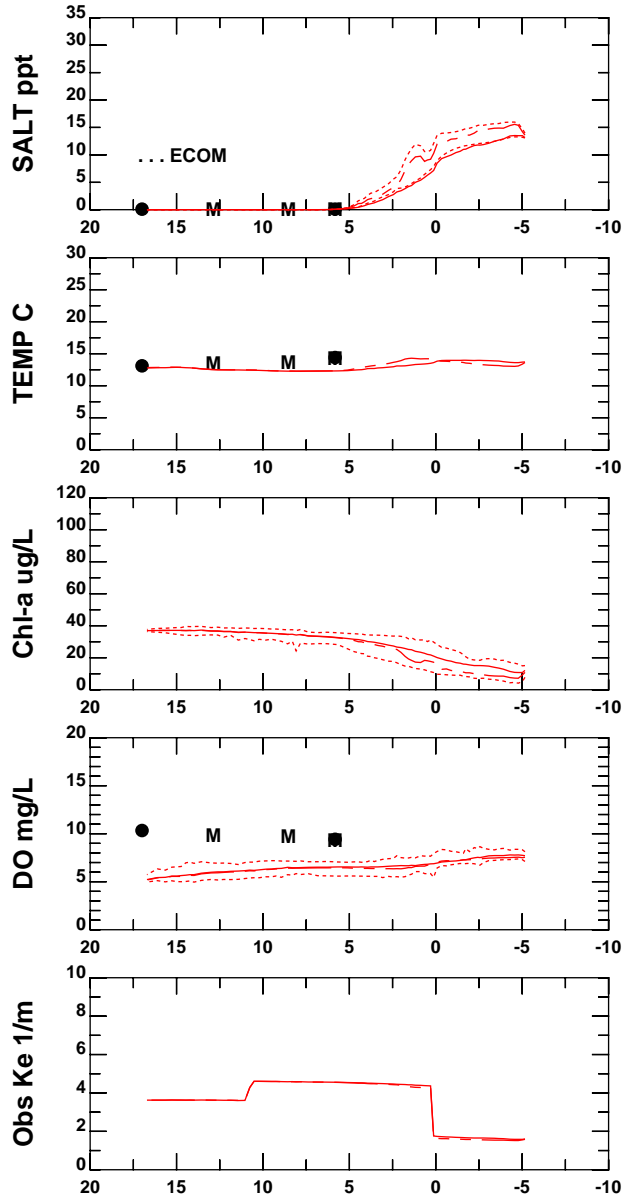
Transect  
Embayment

MODEL

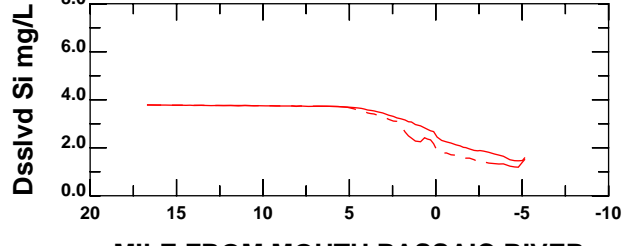
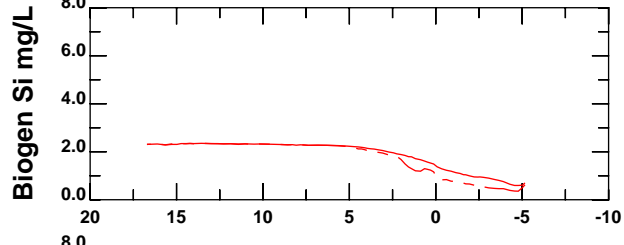
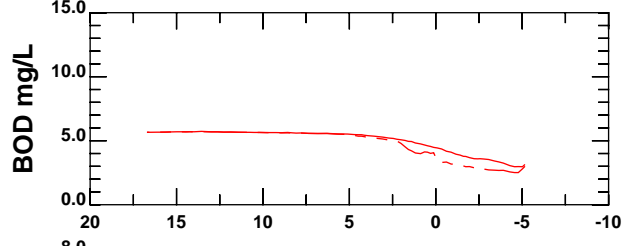
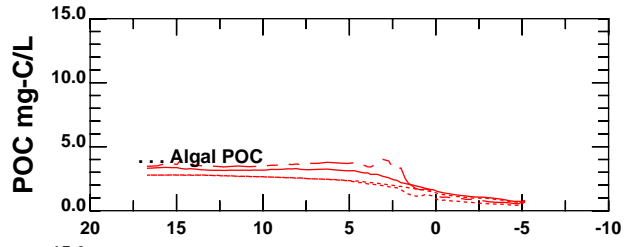
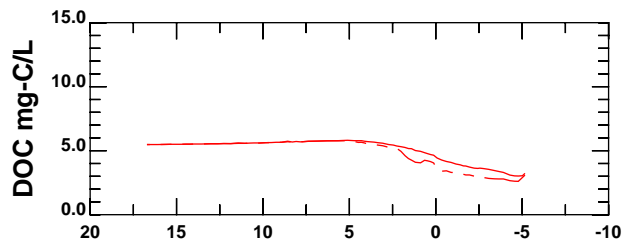
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

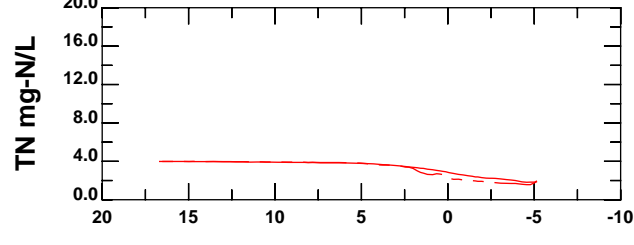
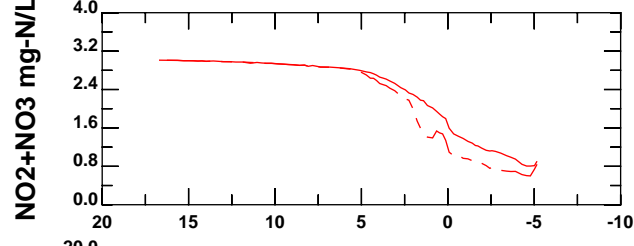
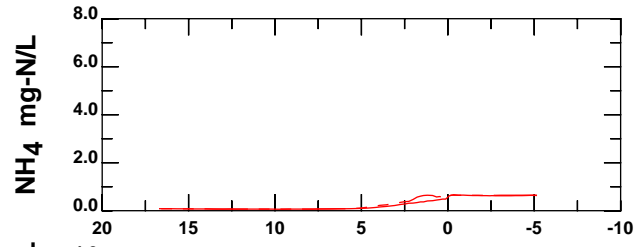
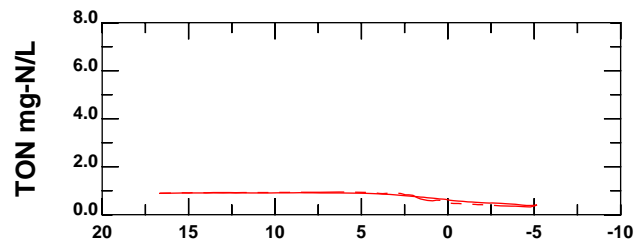
RED=model:Collapsed Grid 0102



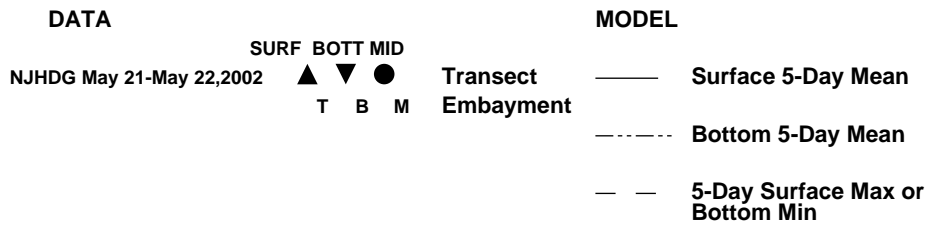
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



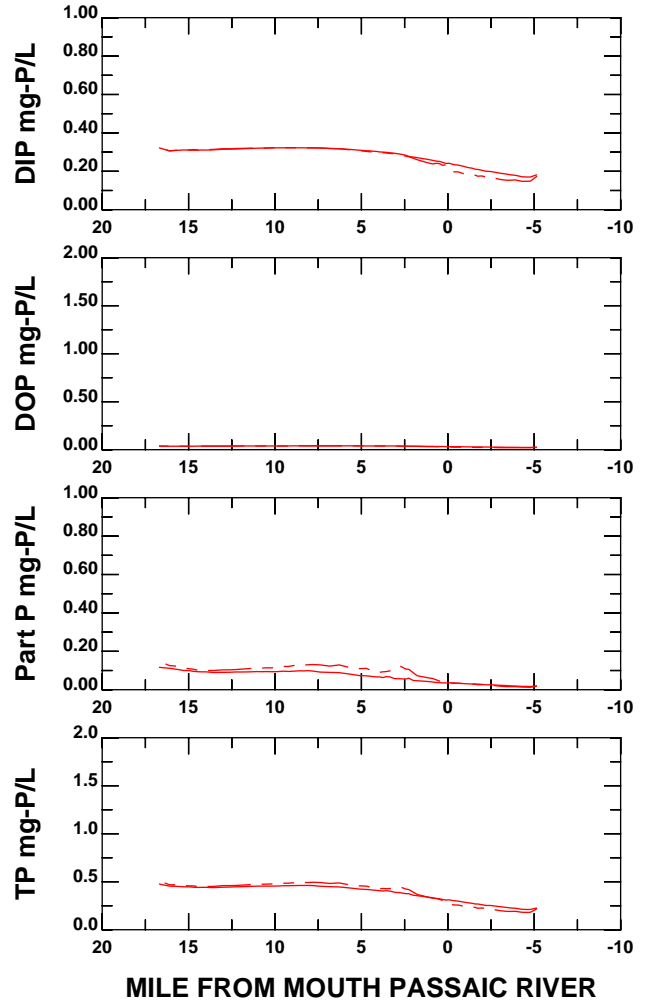
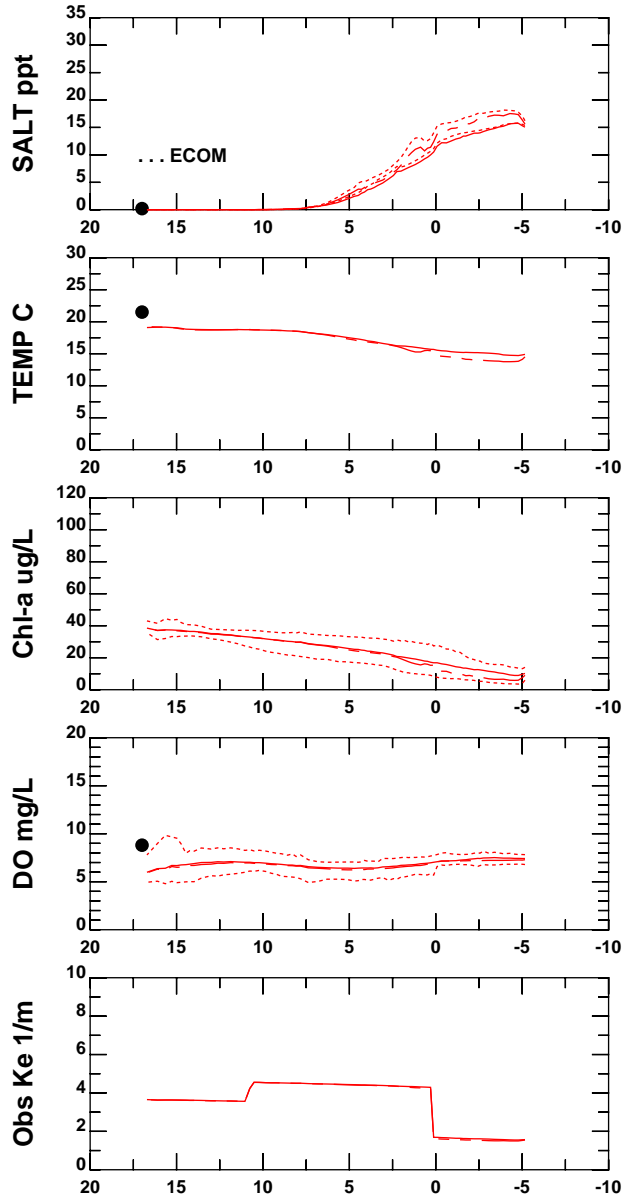
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



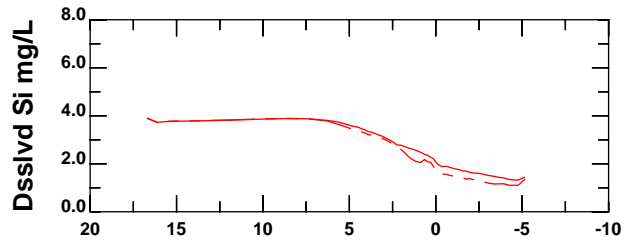
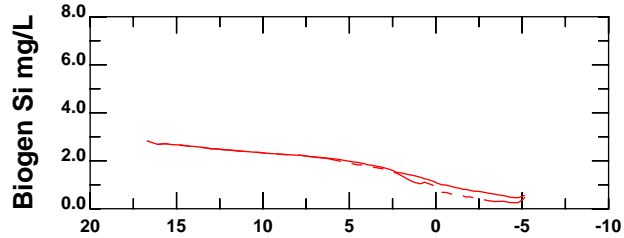
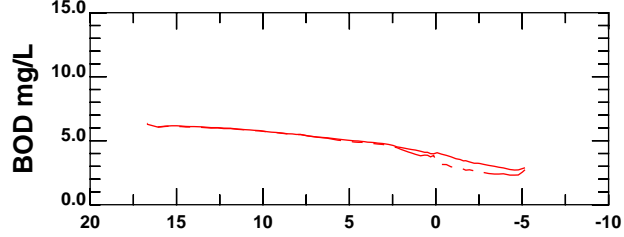
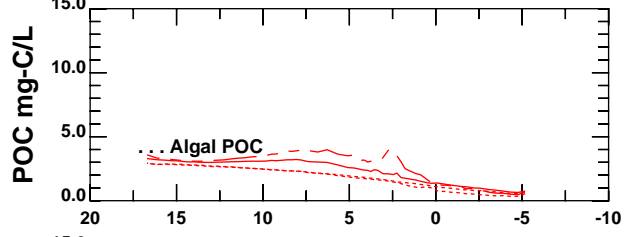
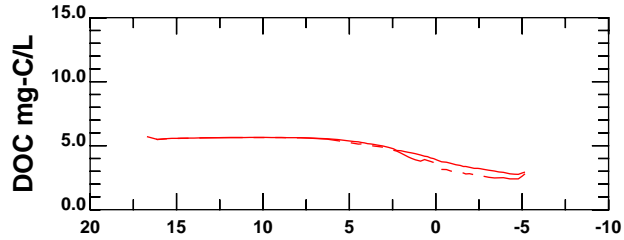
**DATA**  
NJHDG May 29,2002

**MODEL**

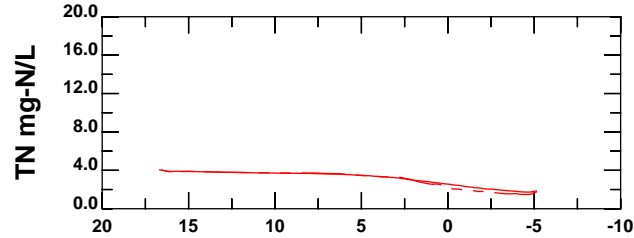
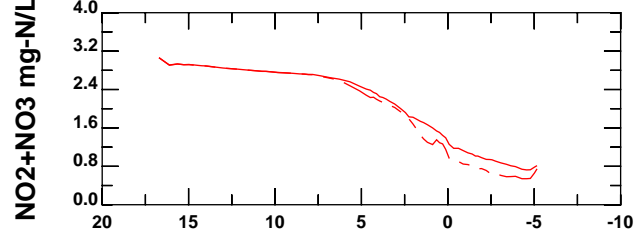
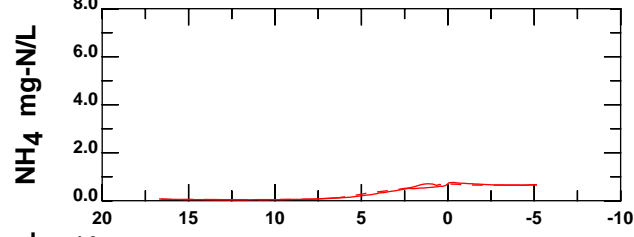
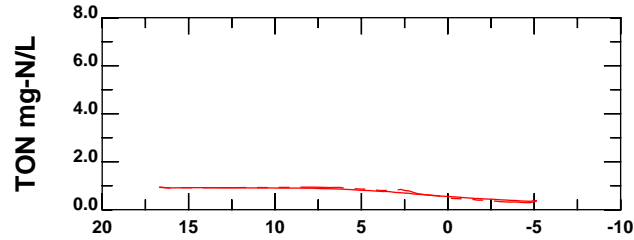
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHGD May 29,2002

SURF BOTT MID  
▲ ▼ ●  
T B M

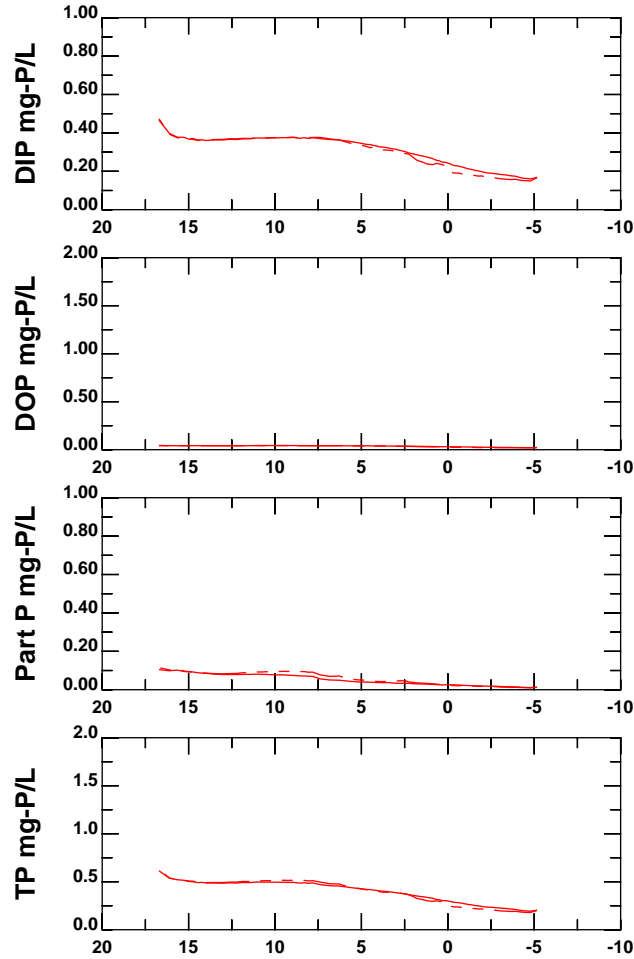
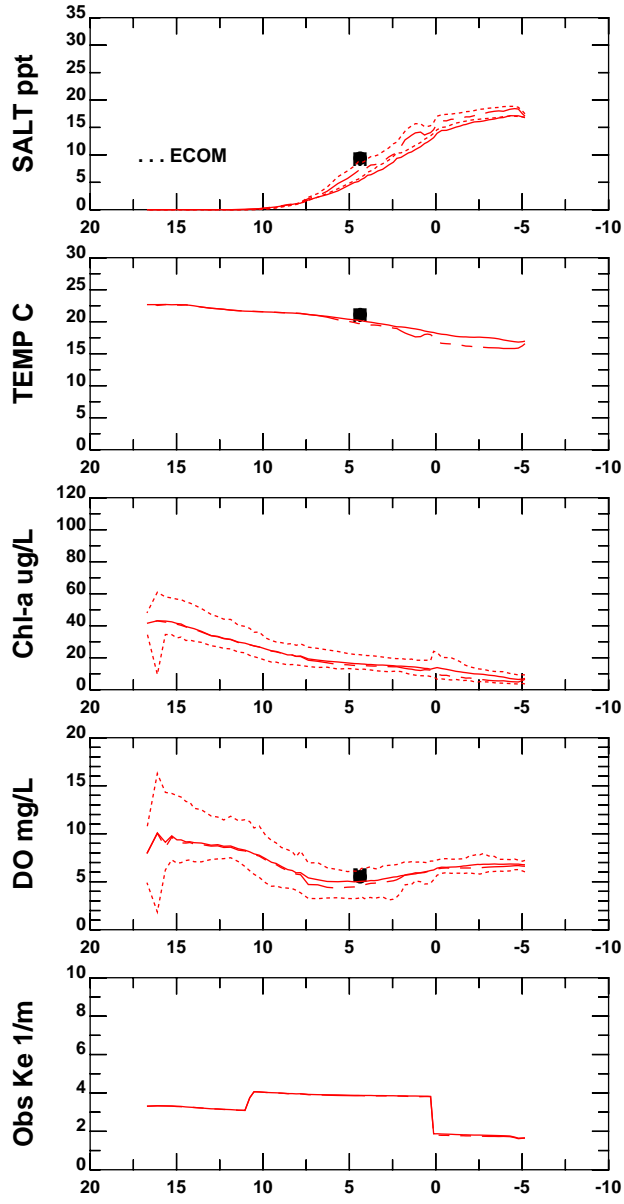
Transect  
Embayment

MODEL

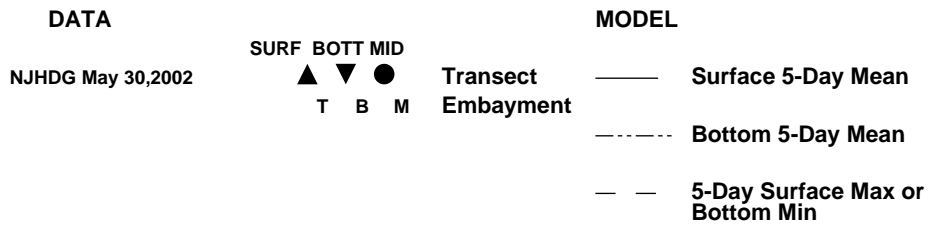
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

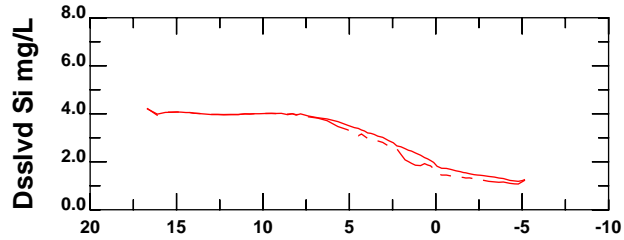
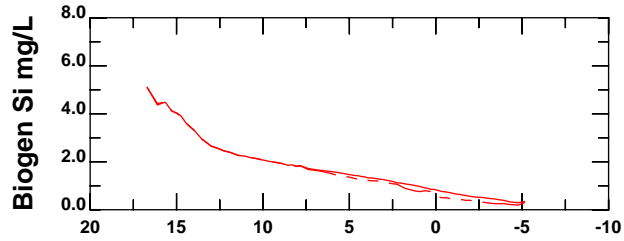
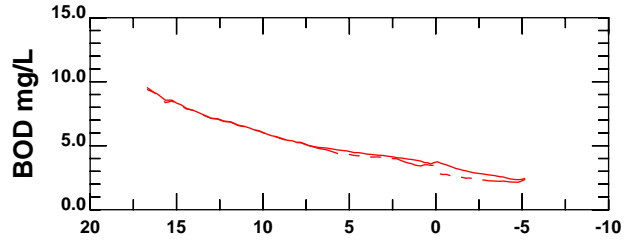
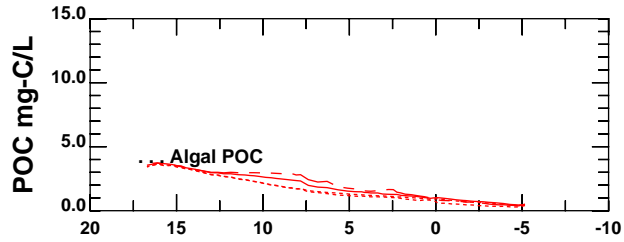
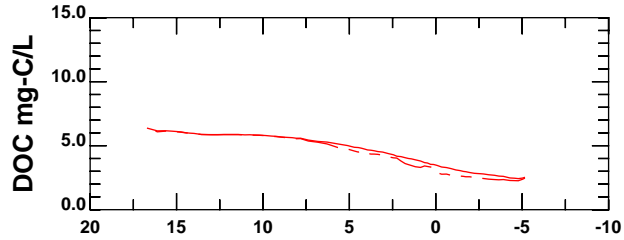
RED=model:Collapsed Grid 0102



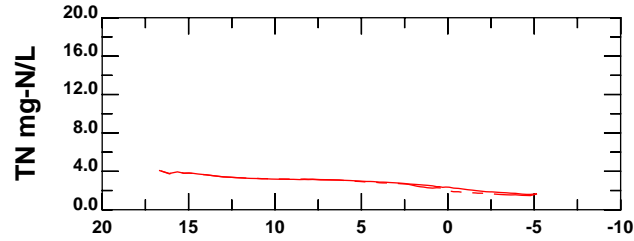
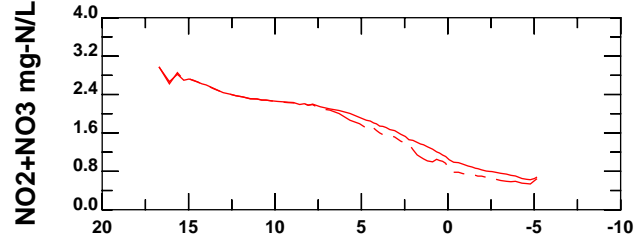
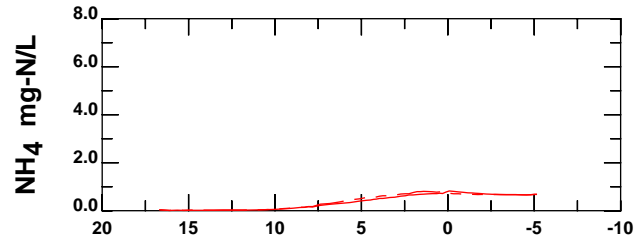
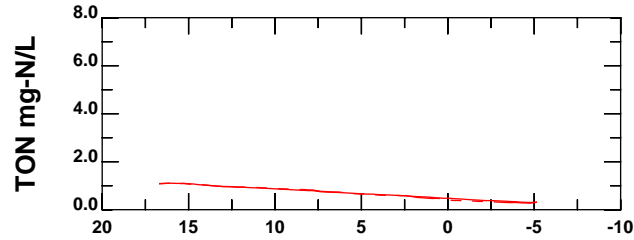
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

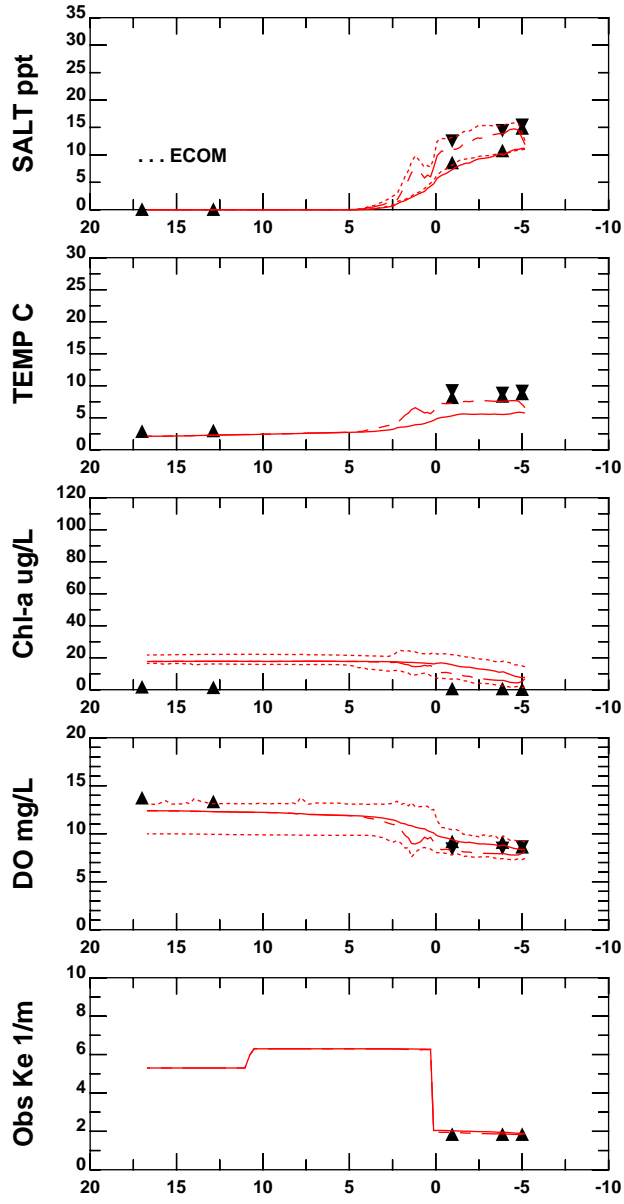
DATA  
NJHGD May 30,2002

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

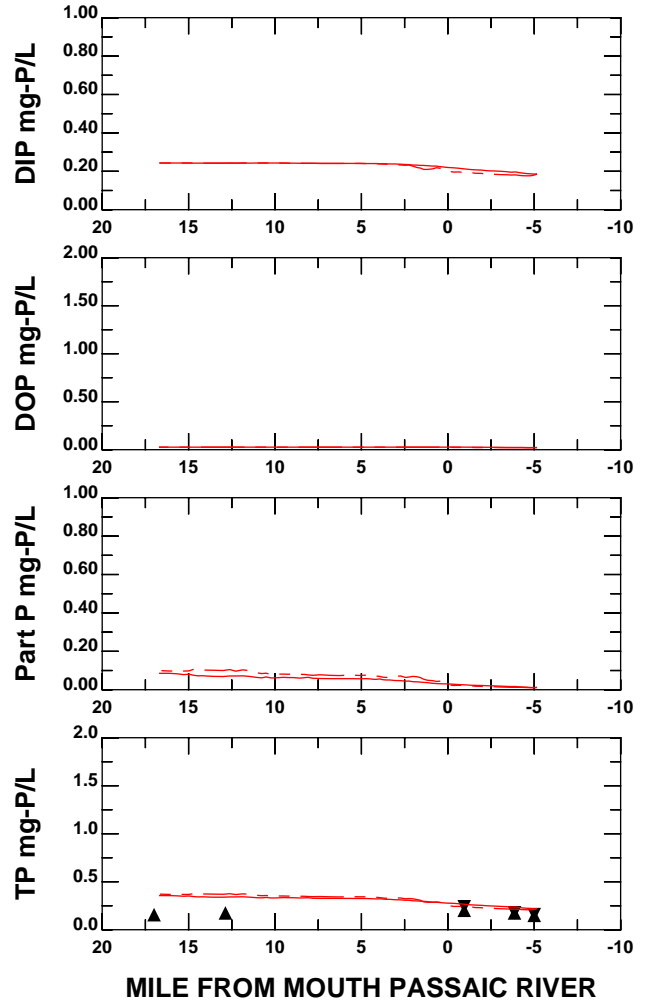
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0102

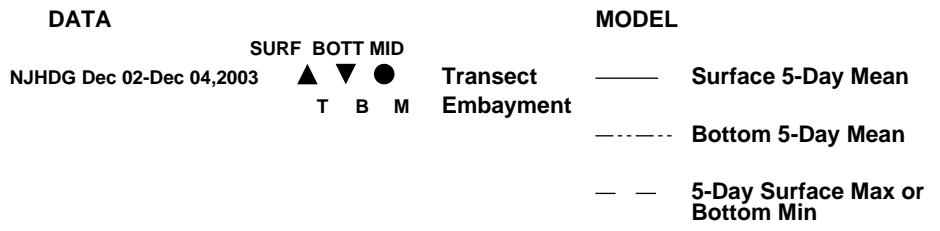


MILE FROM MOUTH PASSAIC RIVER

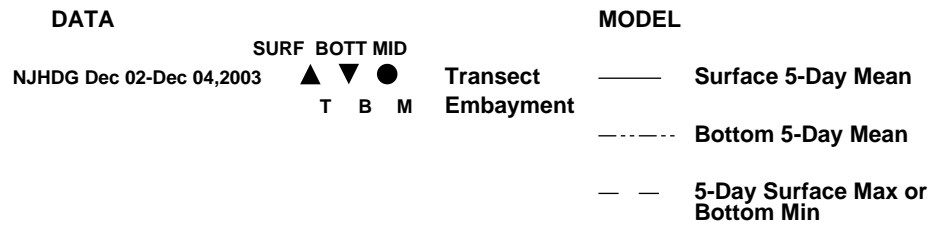
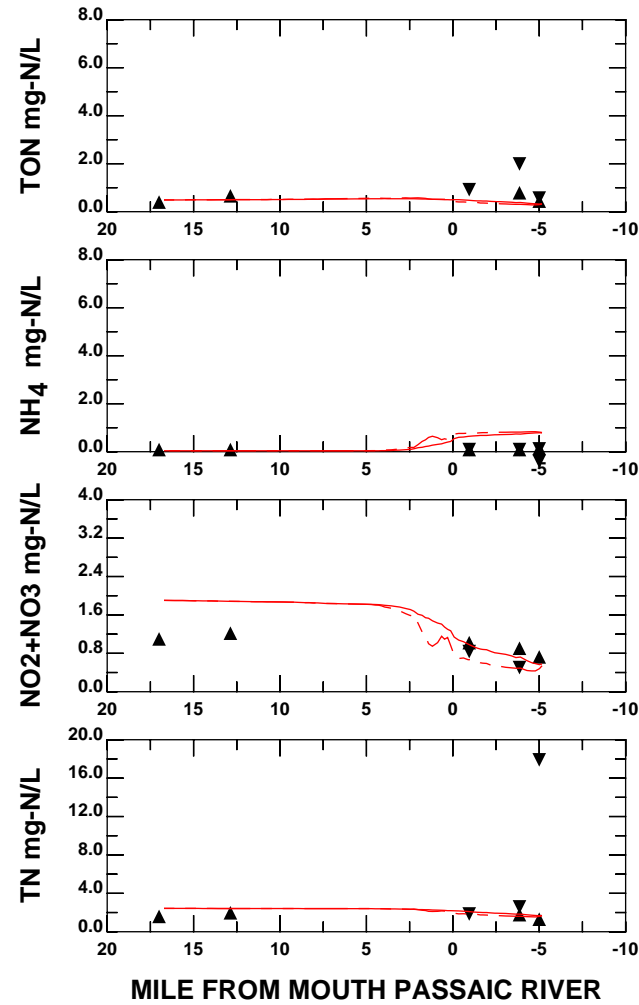
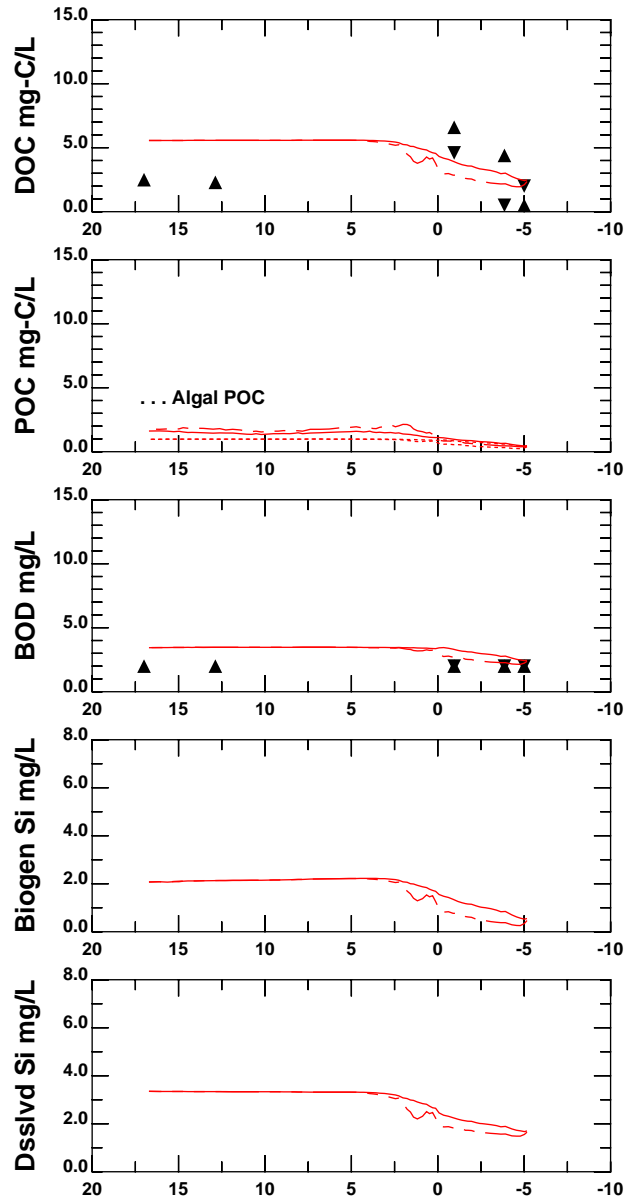
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



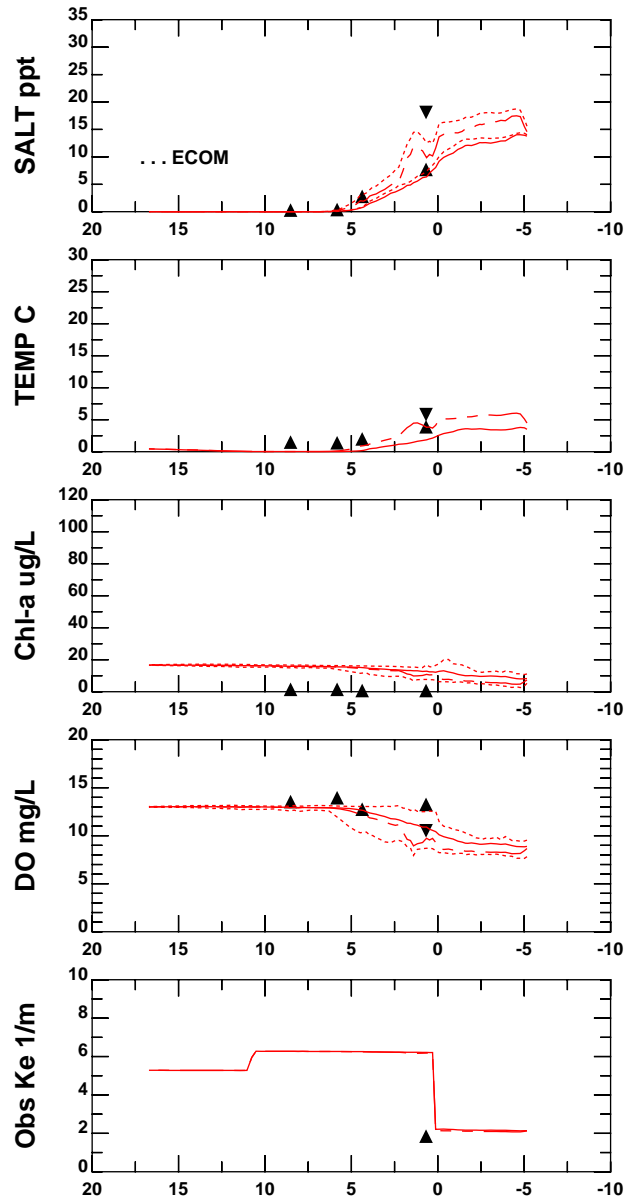
MILE FROM MOUTH PASSAIC RIVER







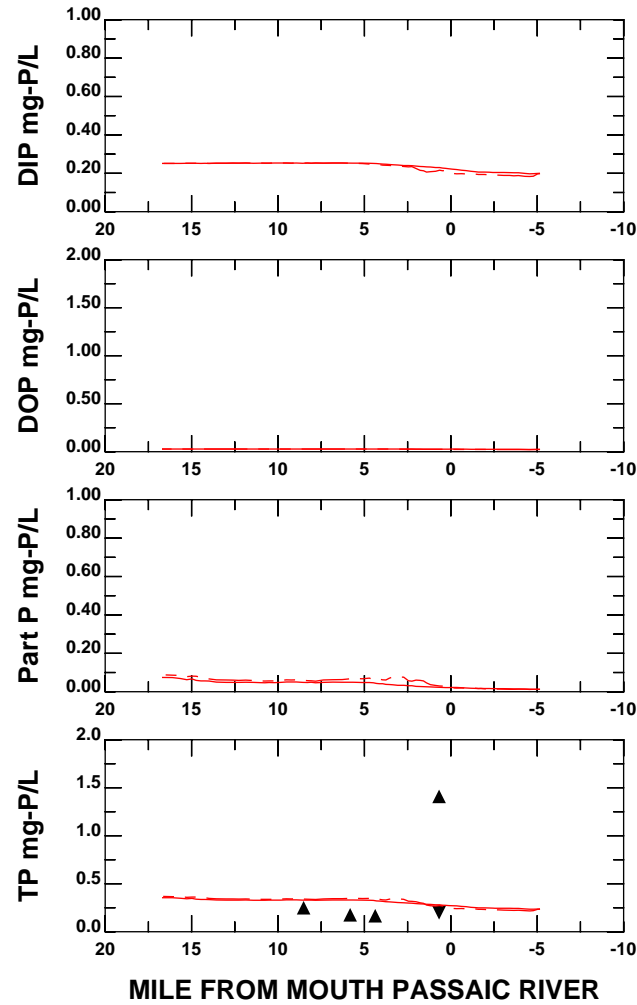
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304



#### DATA

NJHDG Dec 09-Dec 10,2003

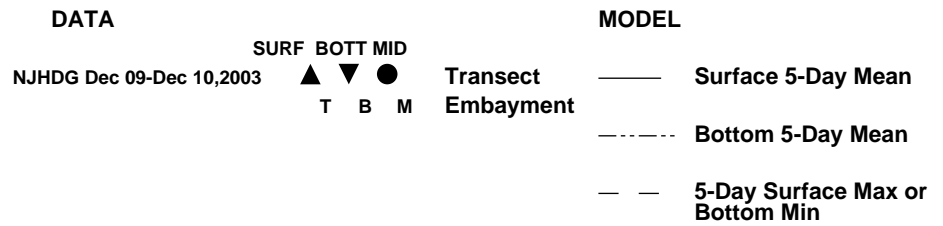
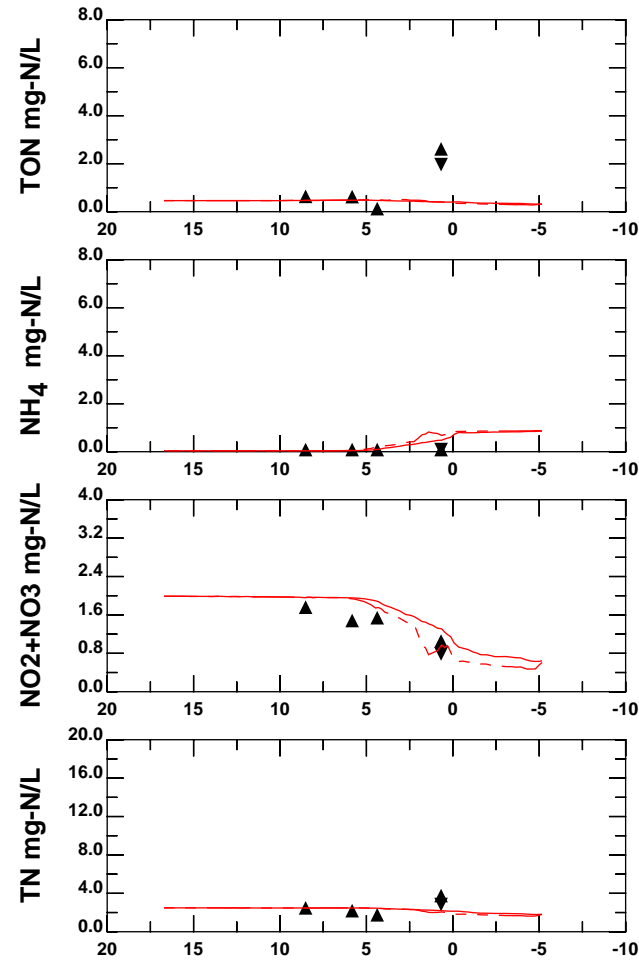
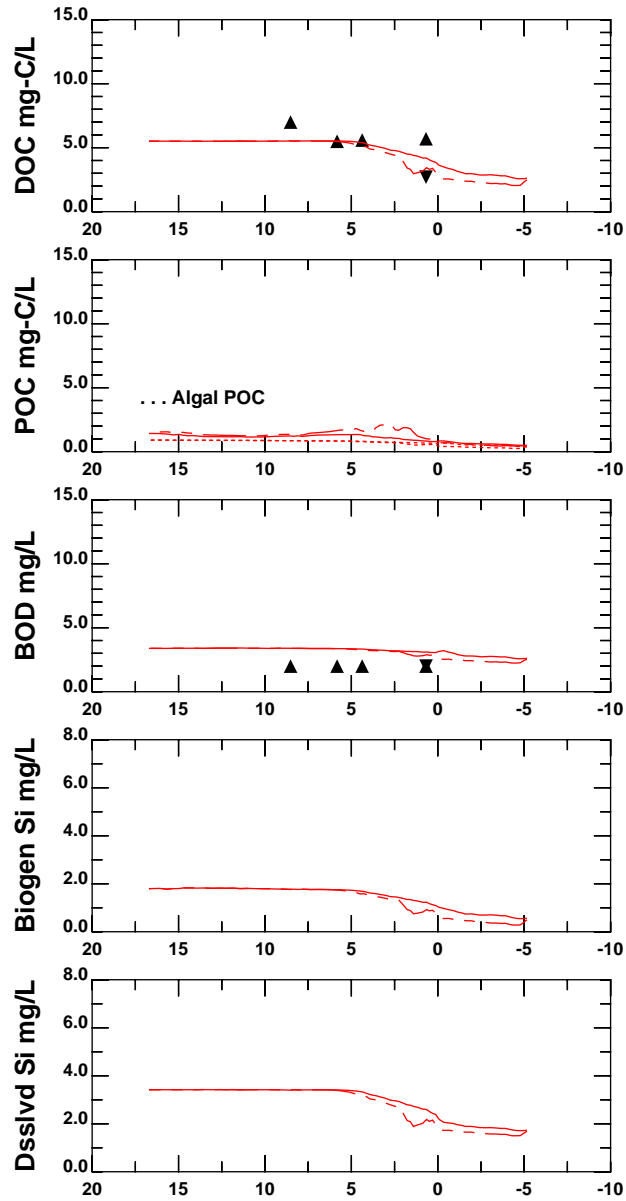
SURF BOTT MID

▲ ▼ ●  
T B M

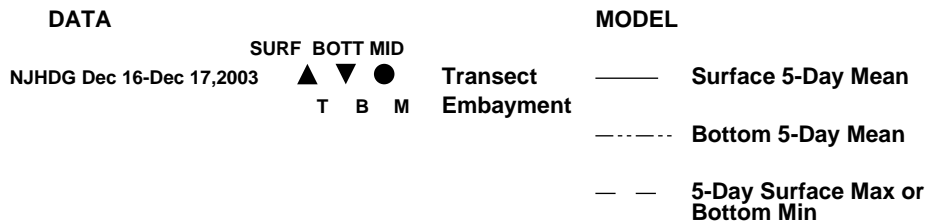
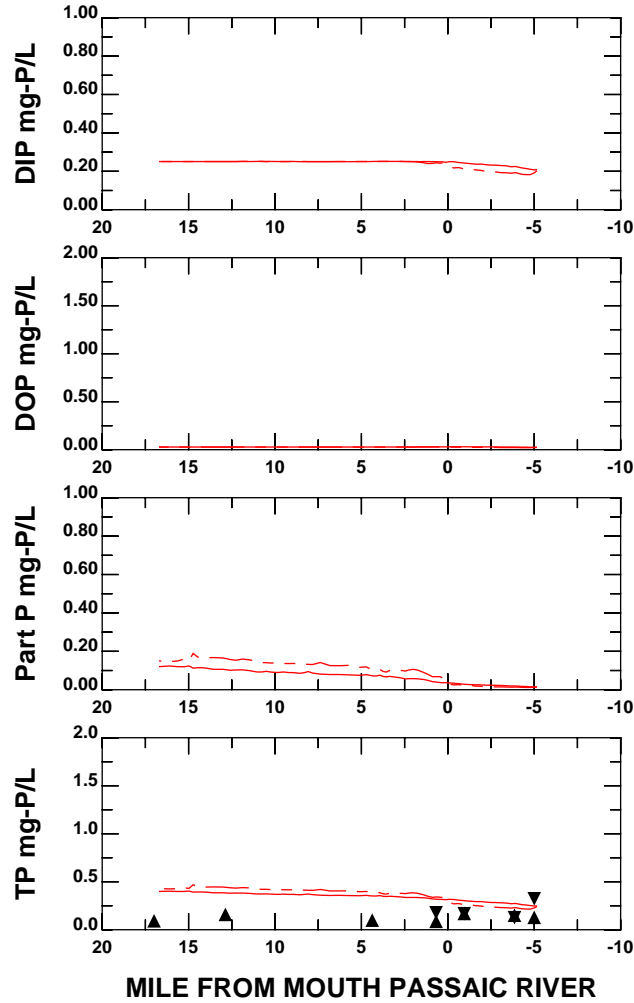
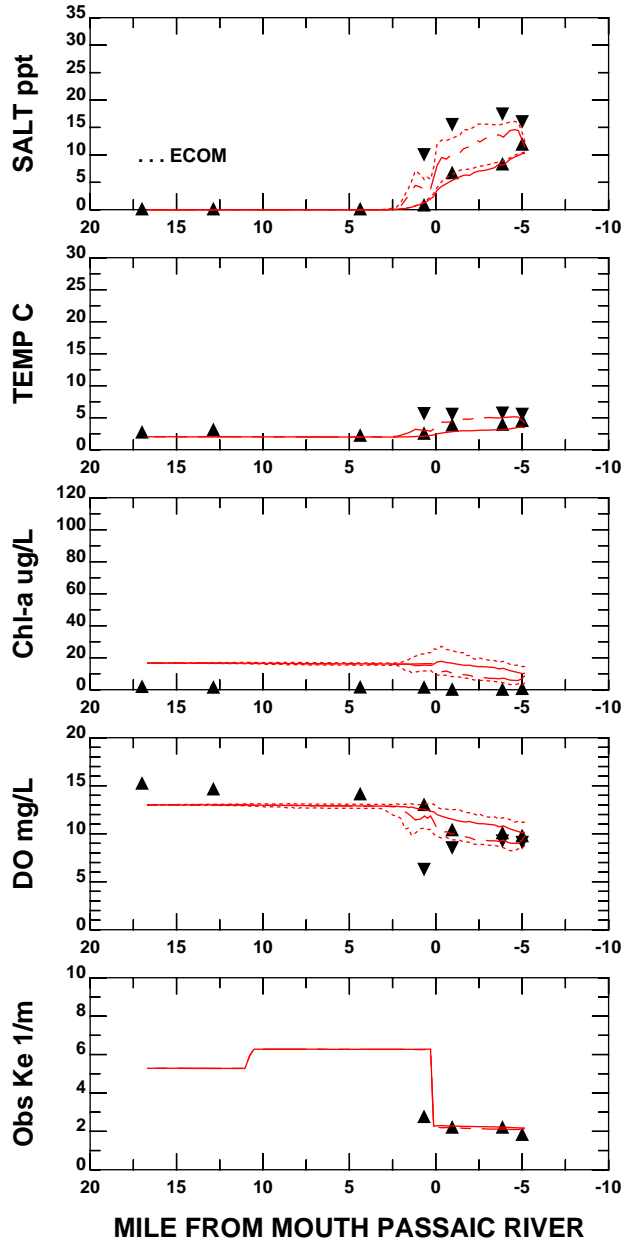
Transect  
Embayment

#### MODEL

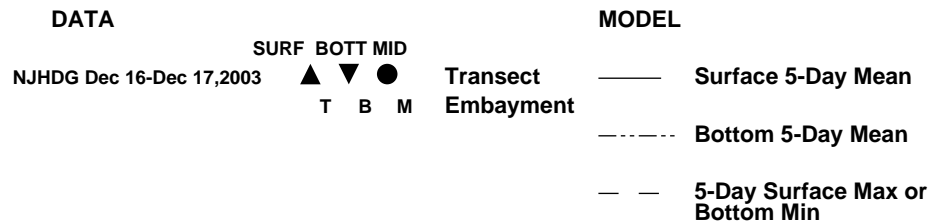
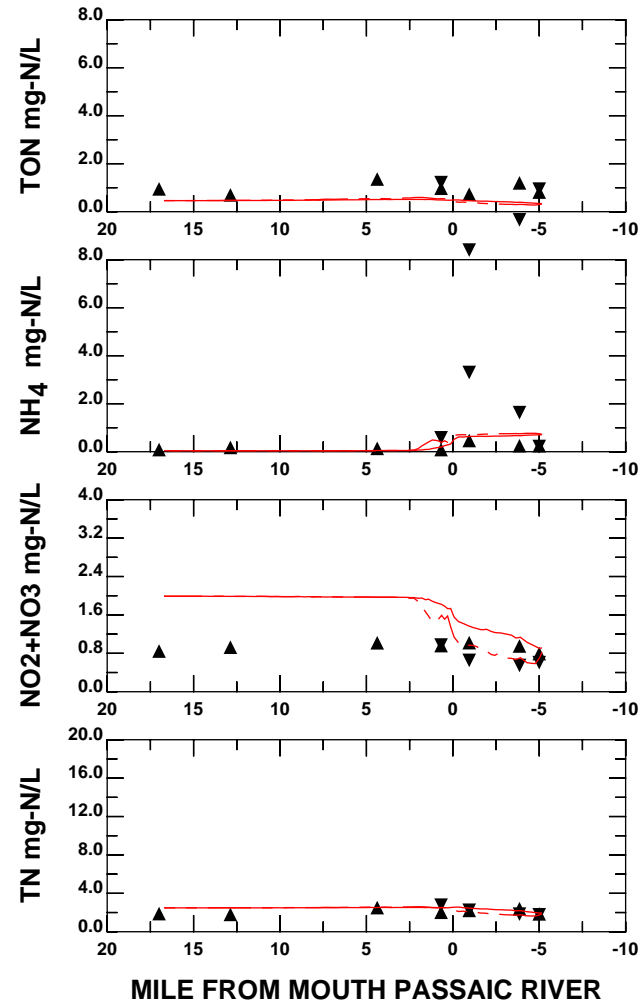
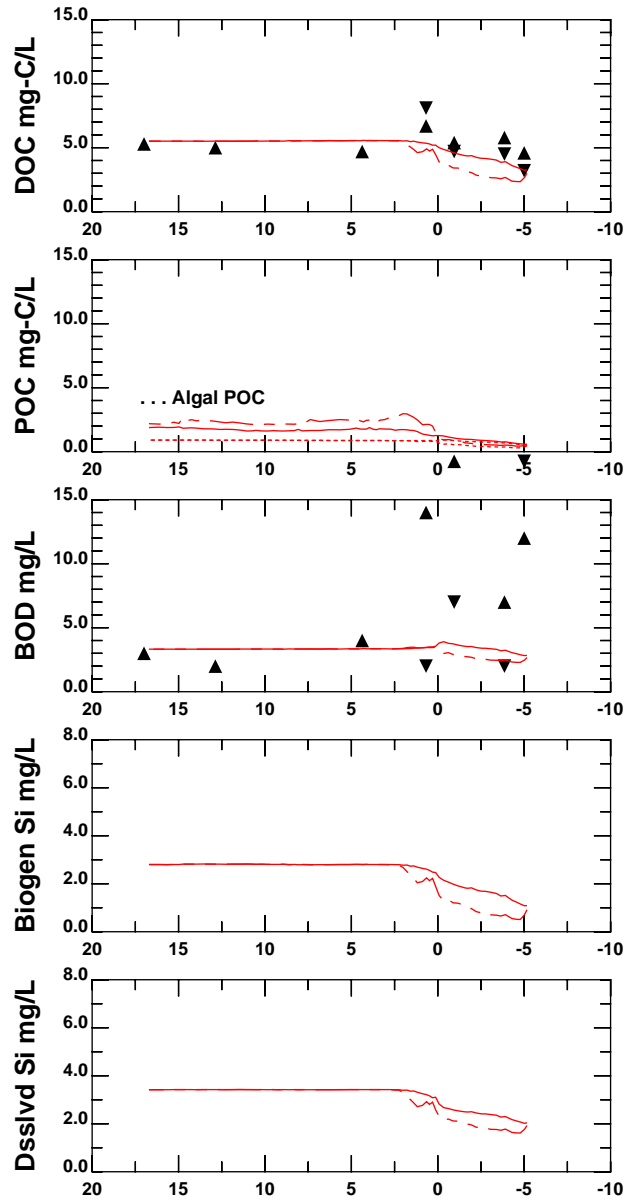
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



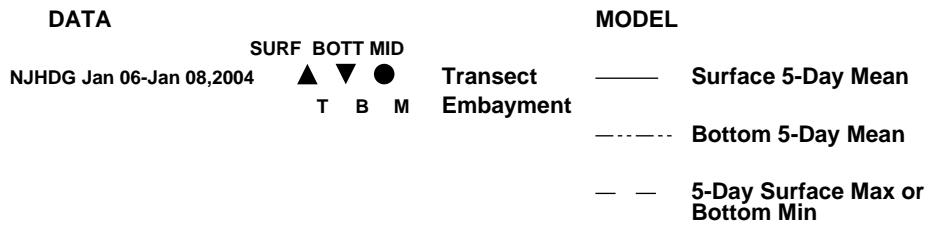
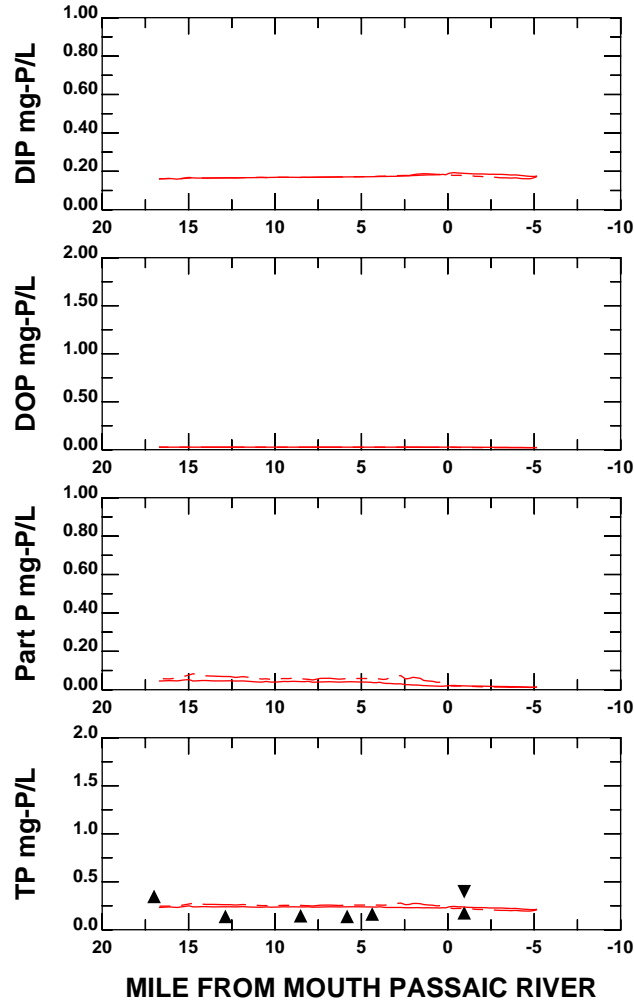
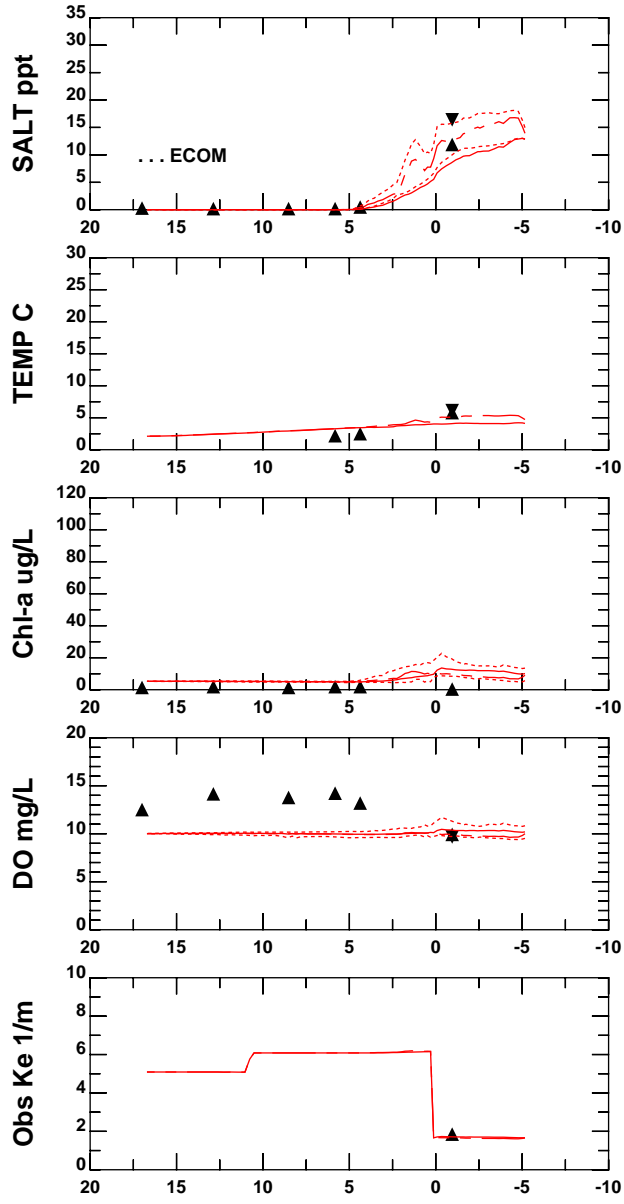
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



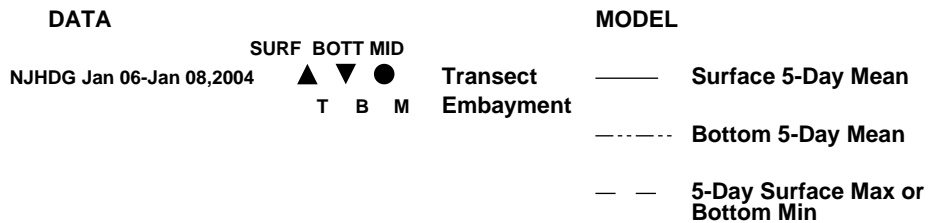
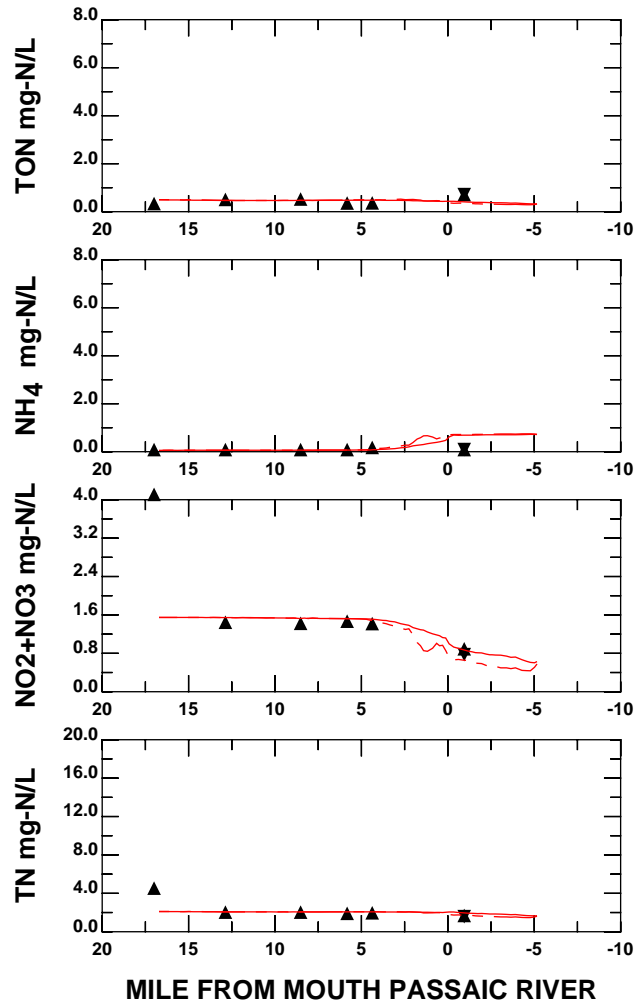
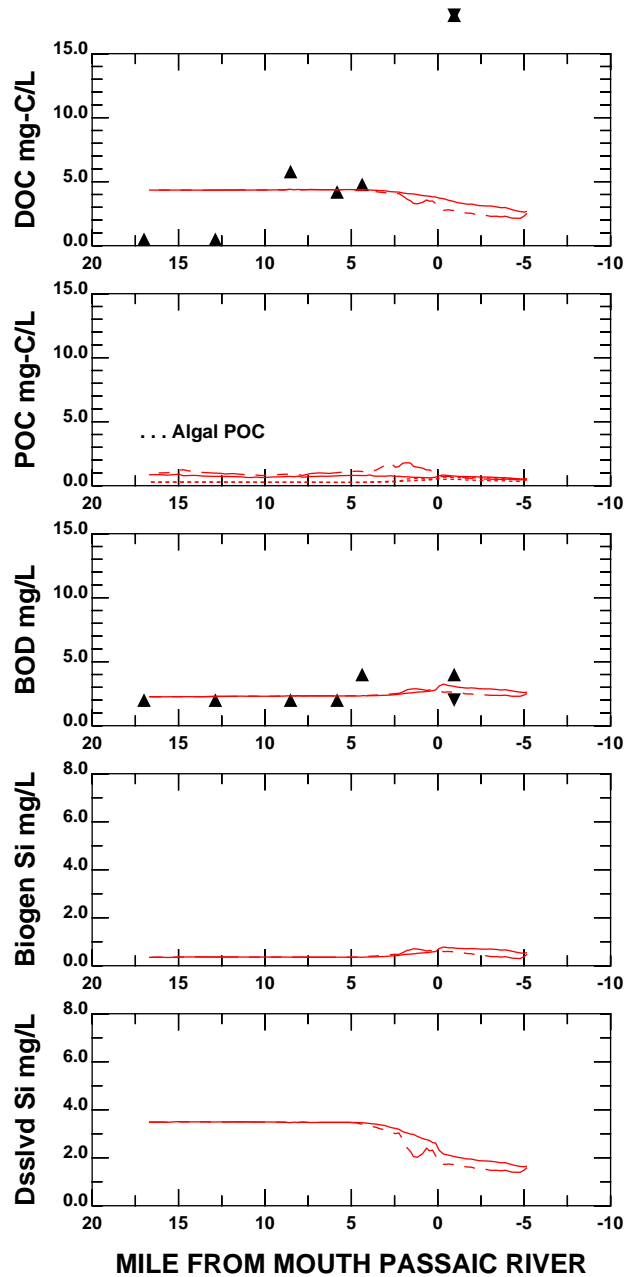
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



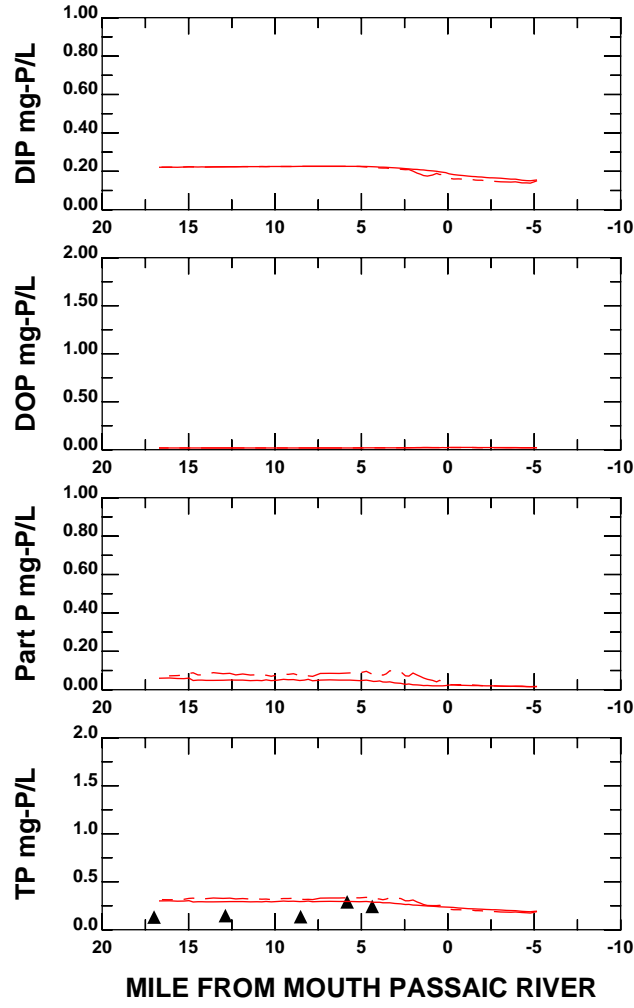
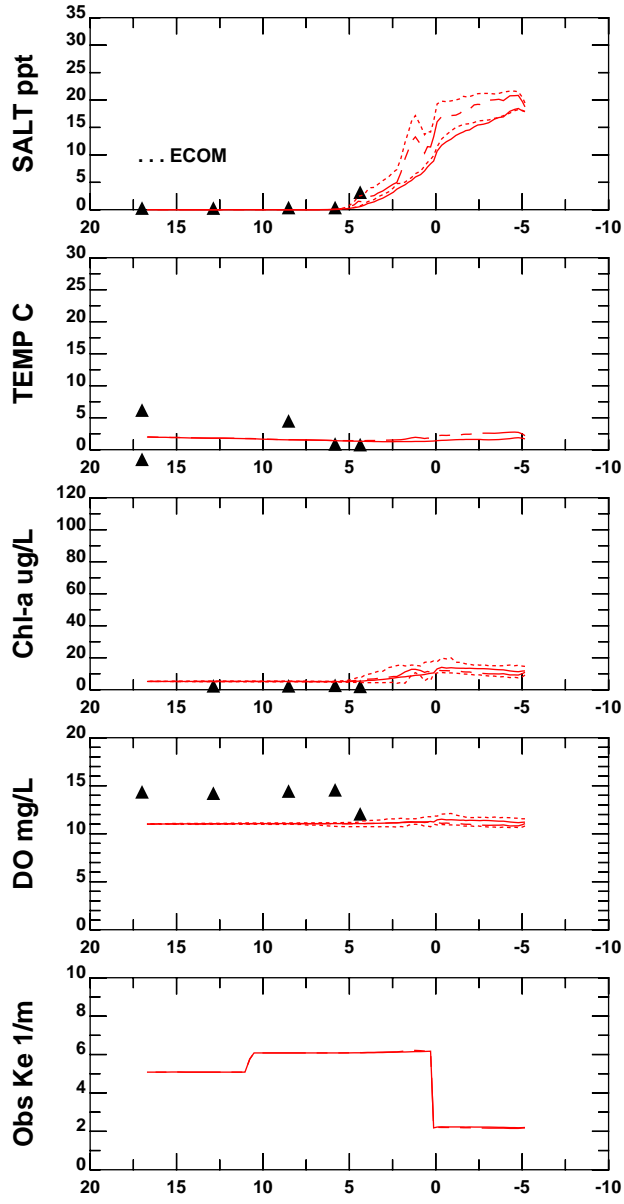
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**DATA**  
NJHDG Feb 10, 2004

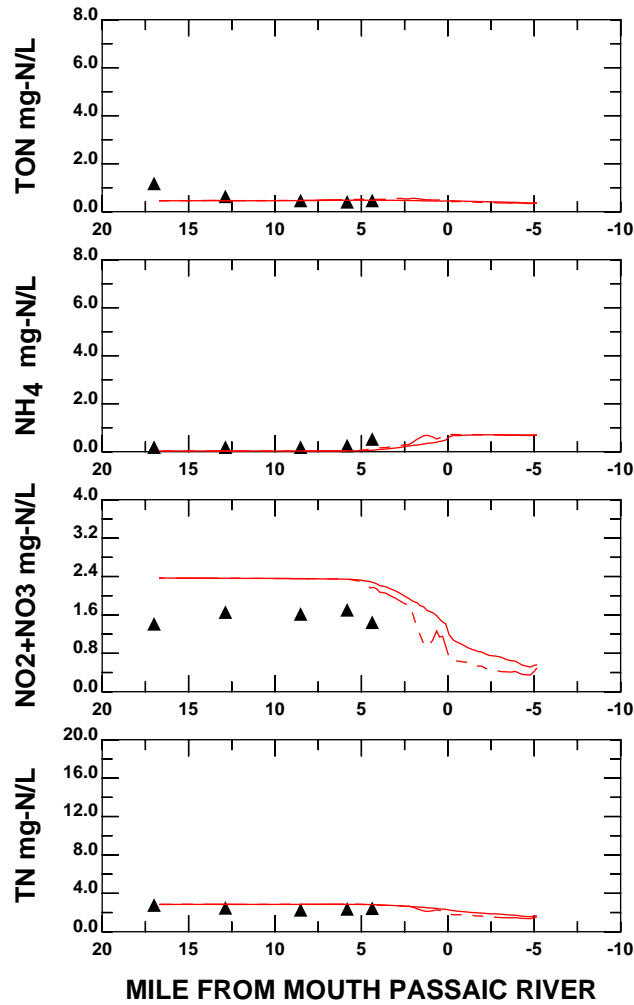
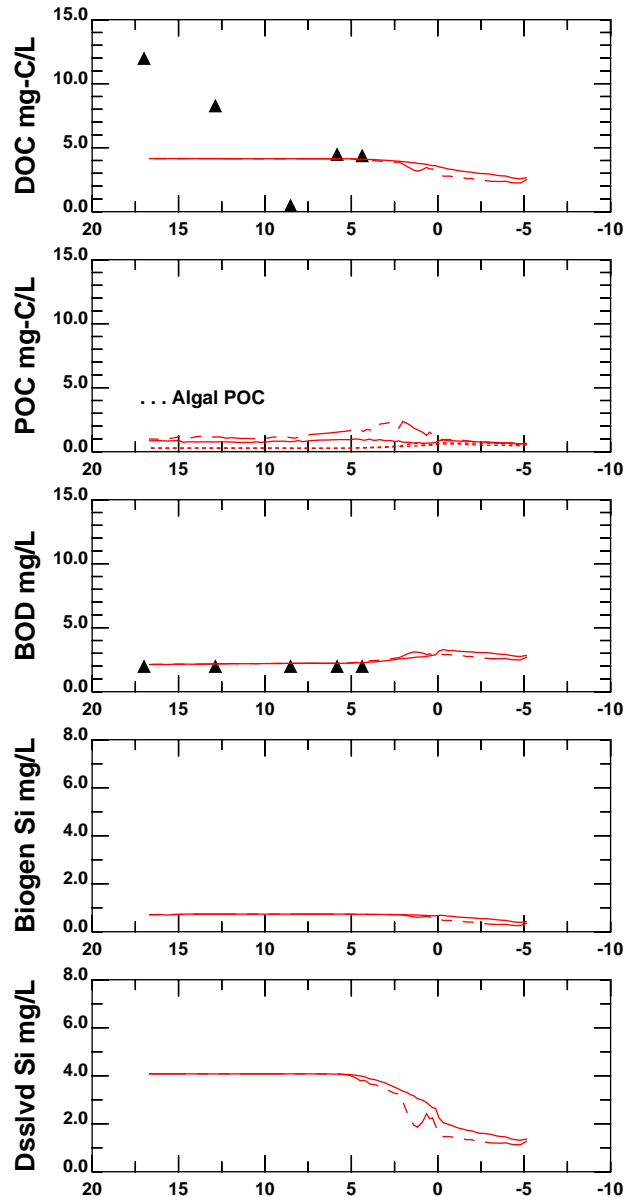
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304





DATA  
NJHDG Feb 10, 2004

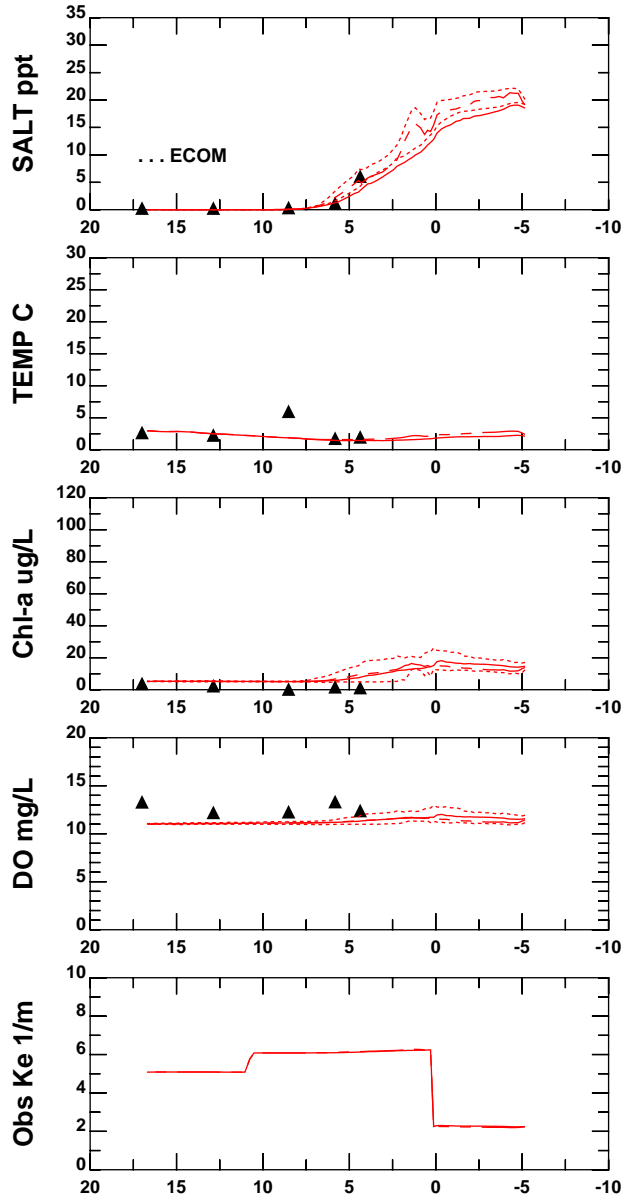
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

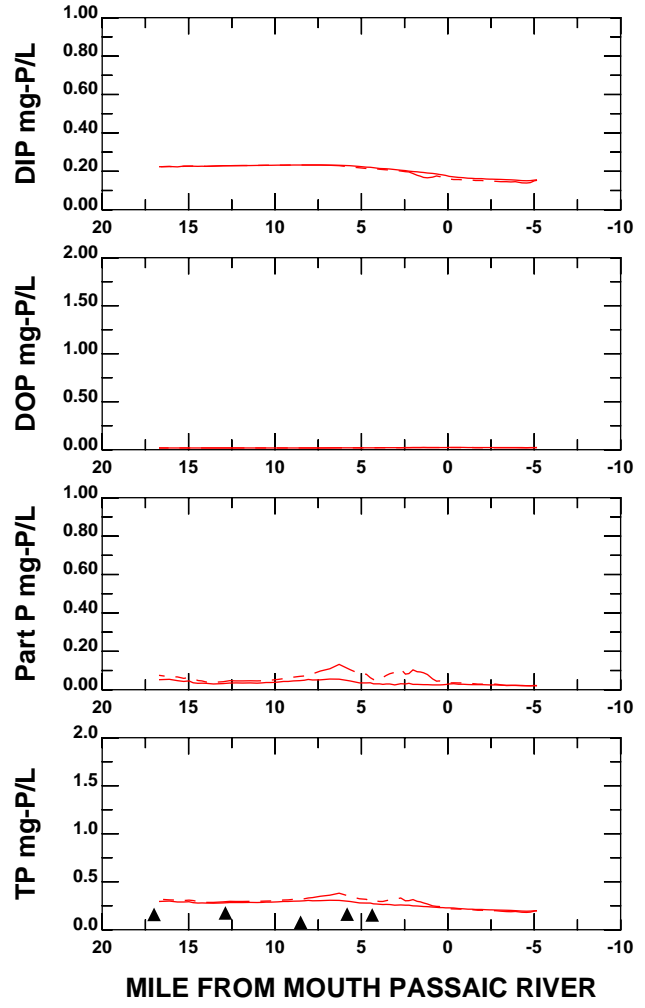
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

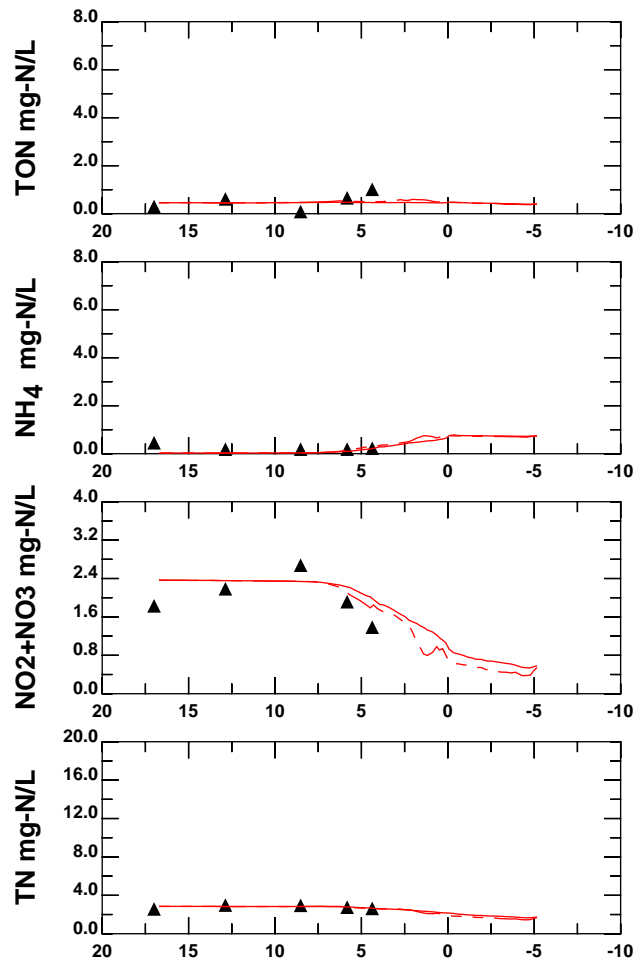
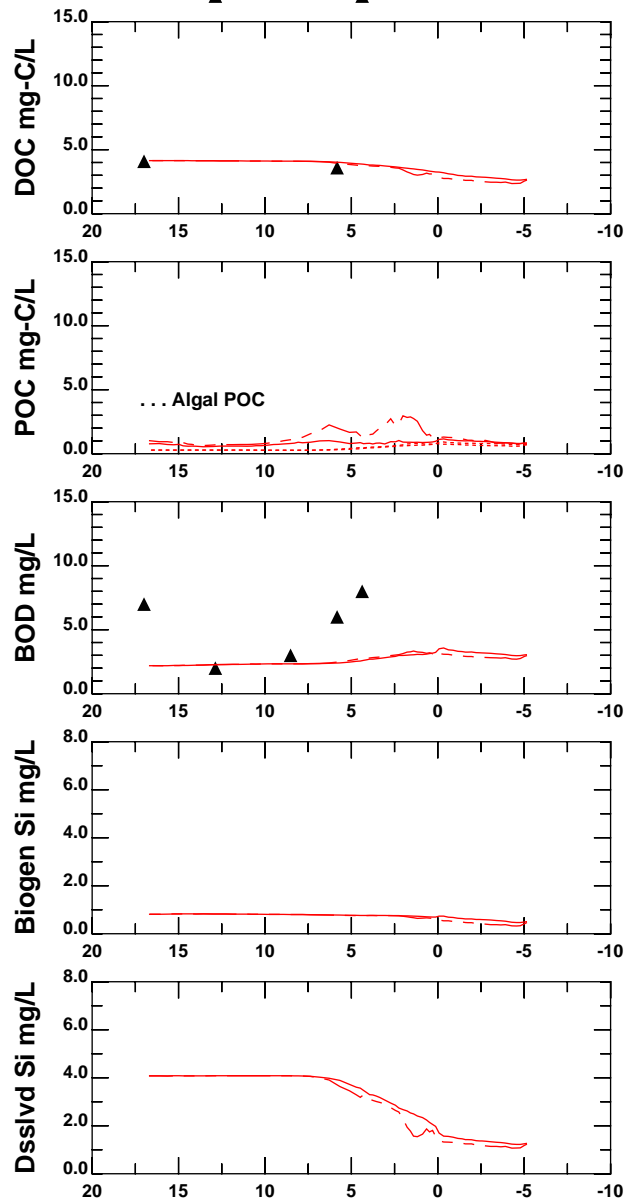


**DATA**  
 NJHDG Feb 19,2004

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



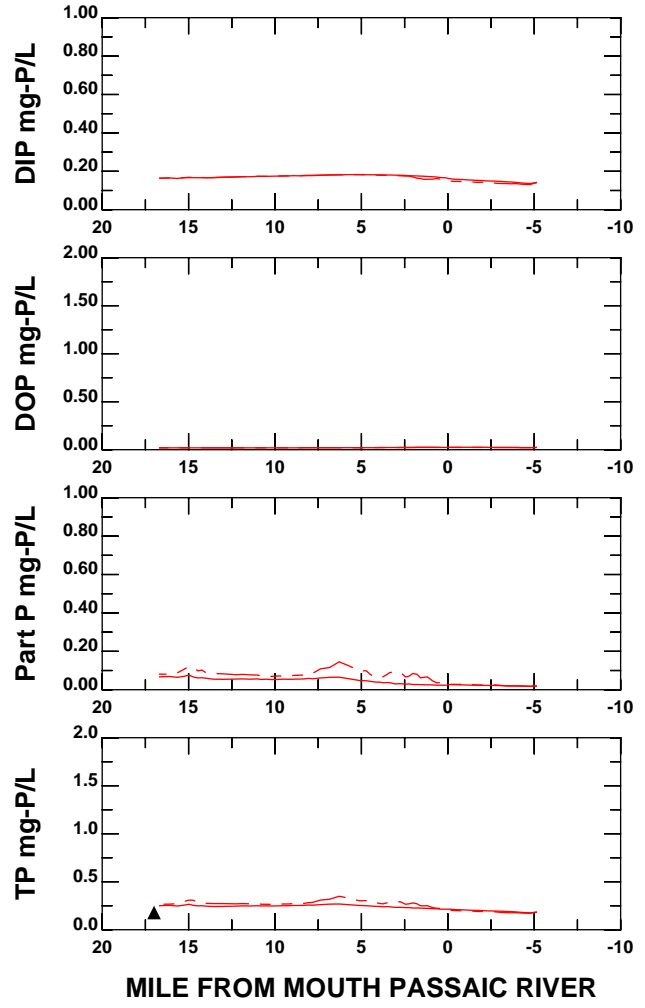
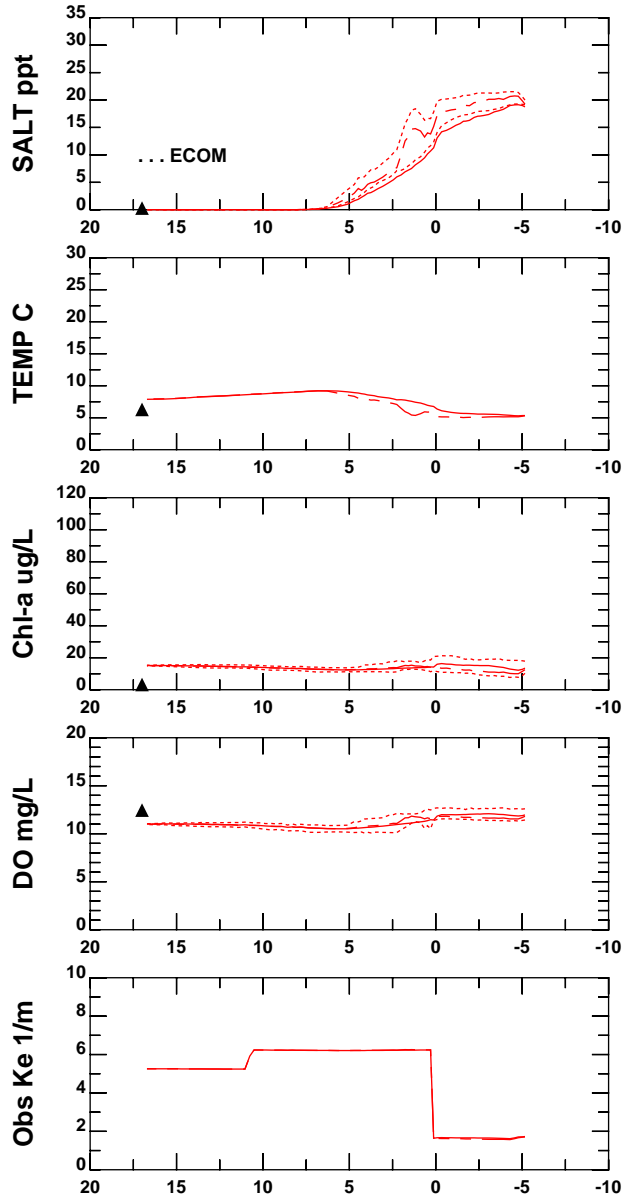
DATA  
NJHDG Feb 19,2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



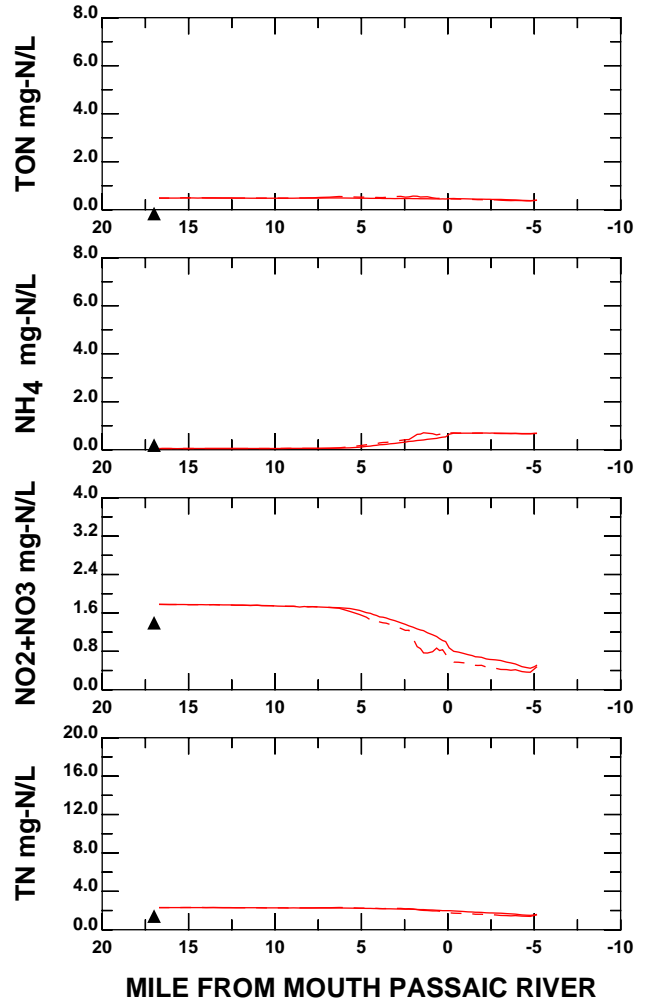
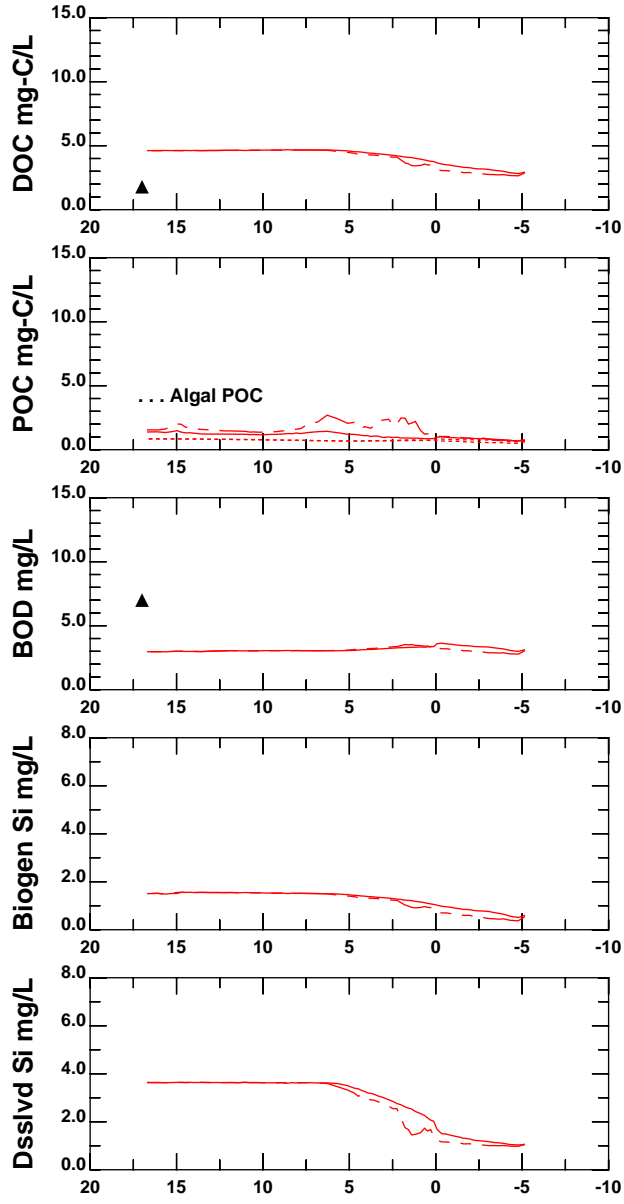
**DATA**  
NJHDG Mar 09,2004

**MODEL**

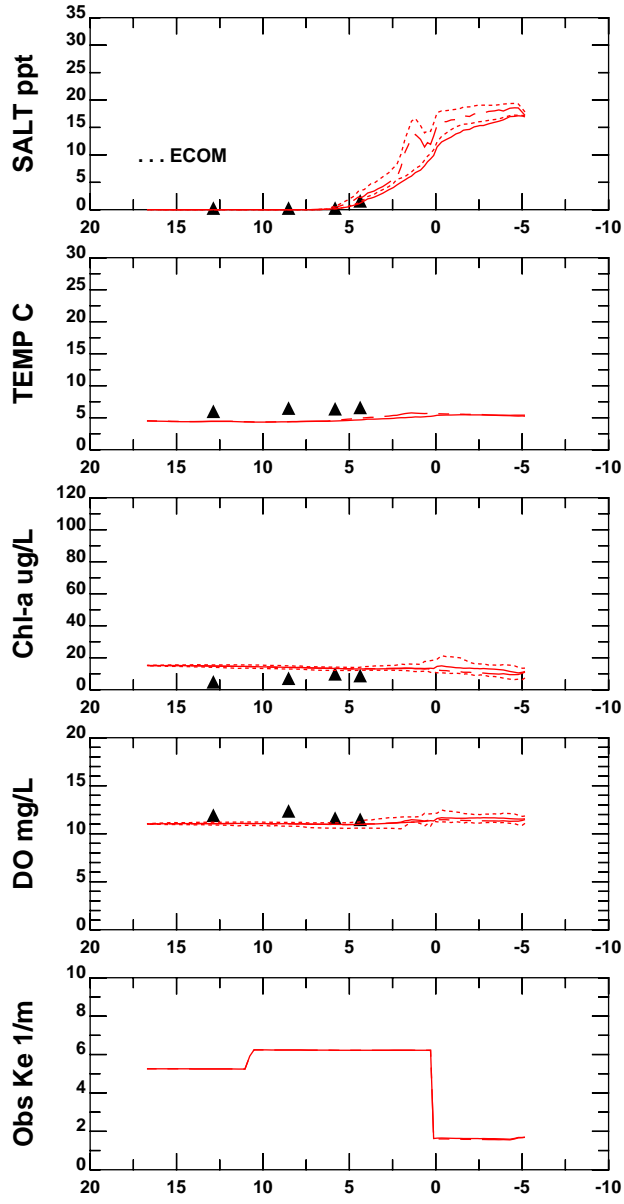
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

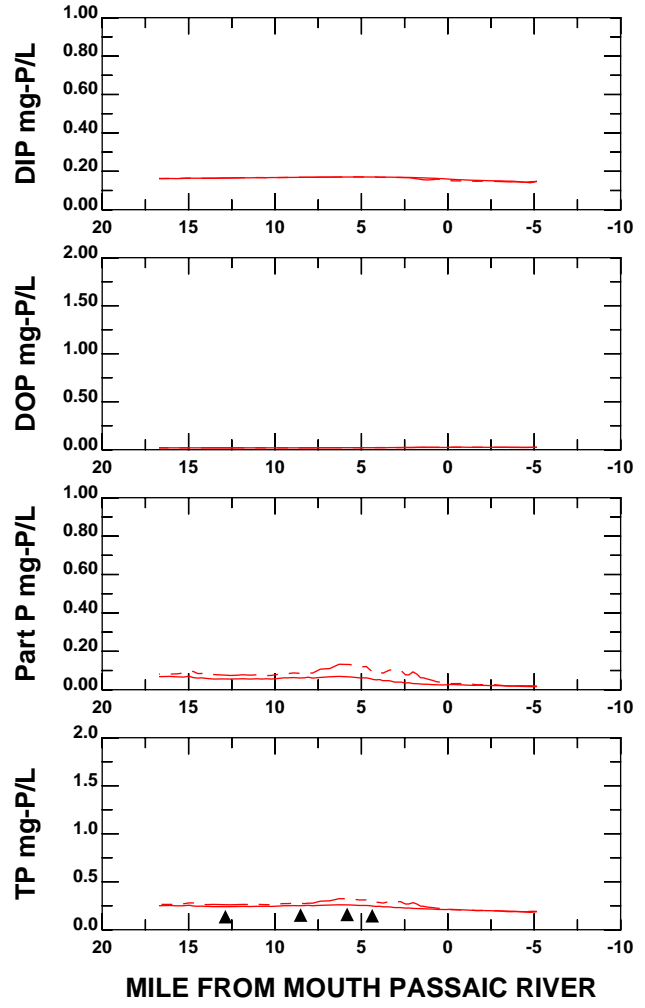


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

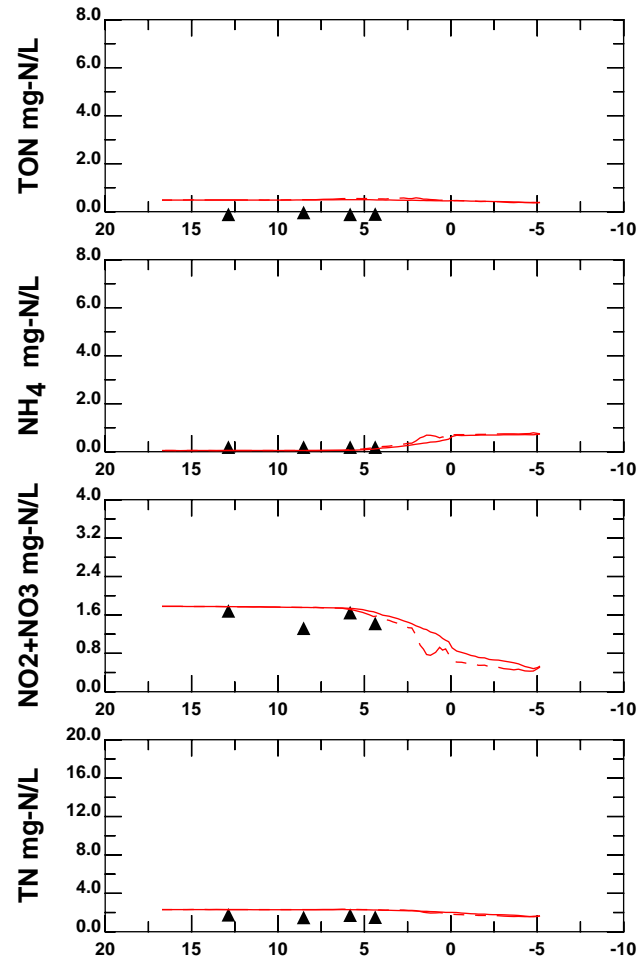
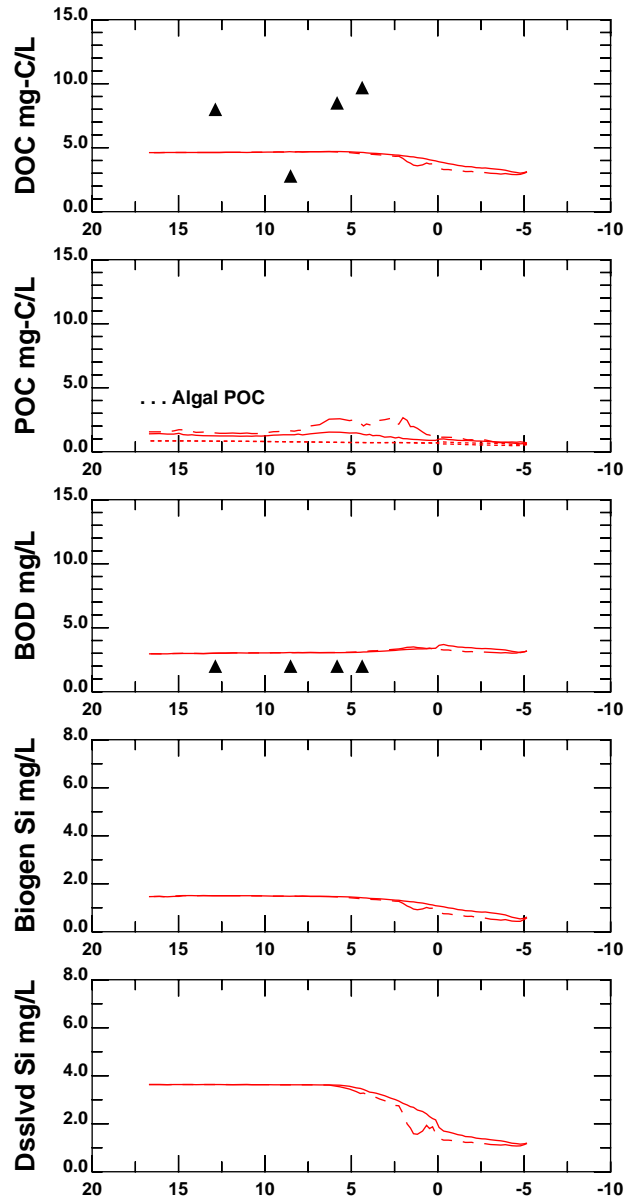


MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Mar 10,2004

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

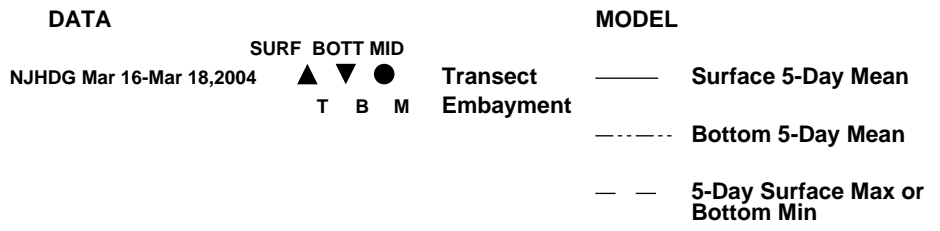
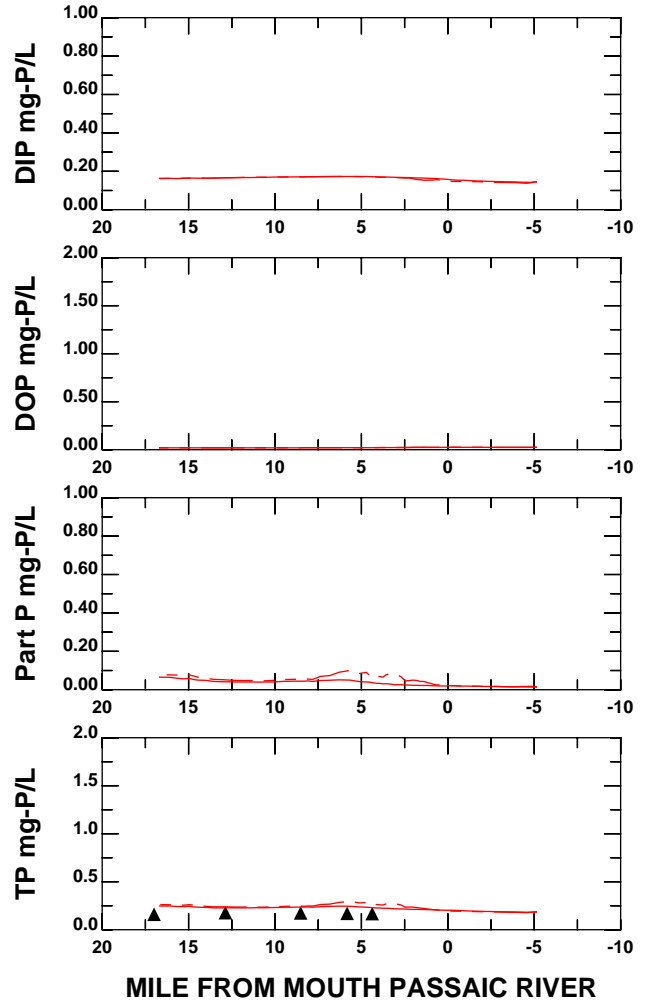
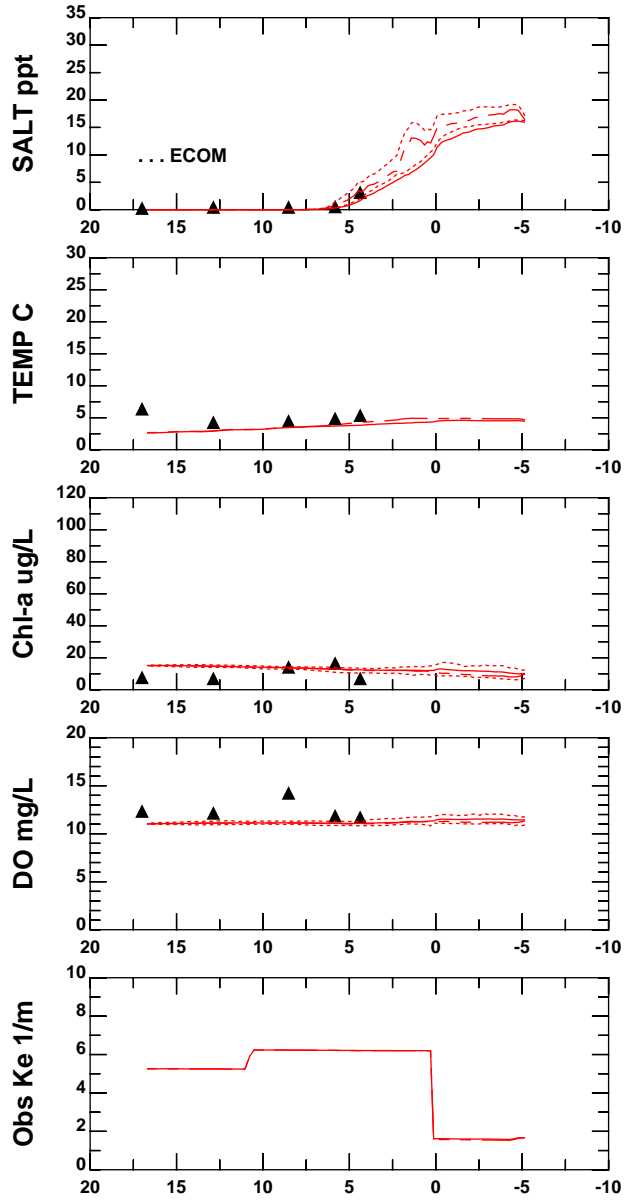


DATA  
NJHGD Mar 10, 2004

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

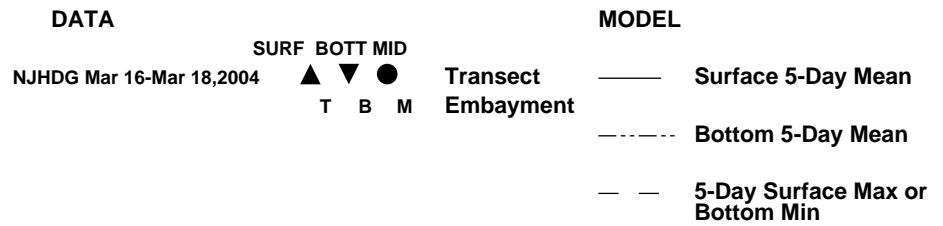
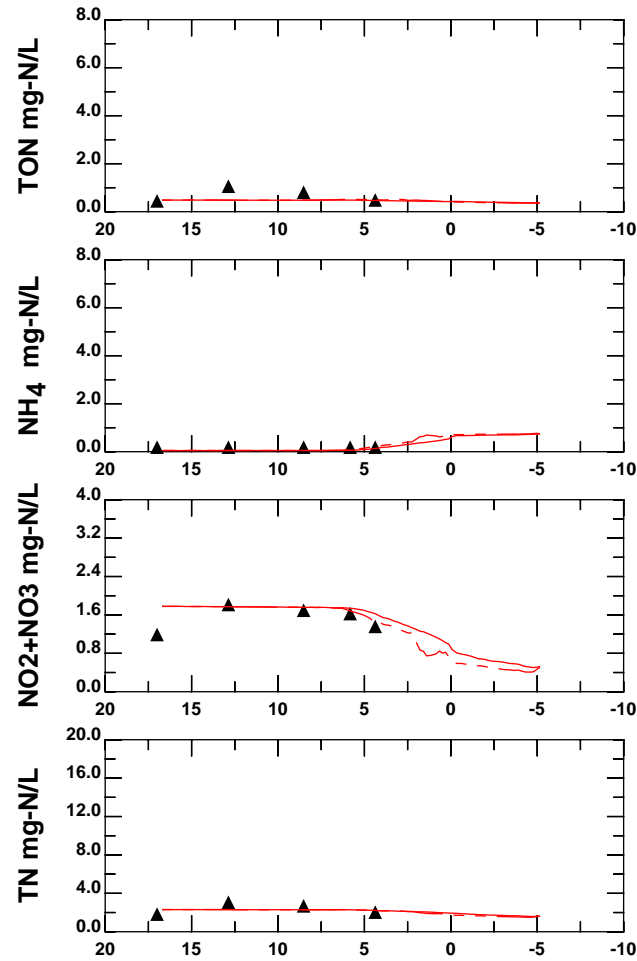
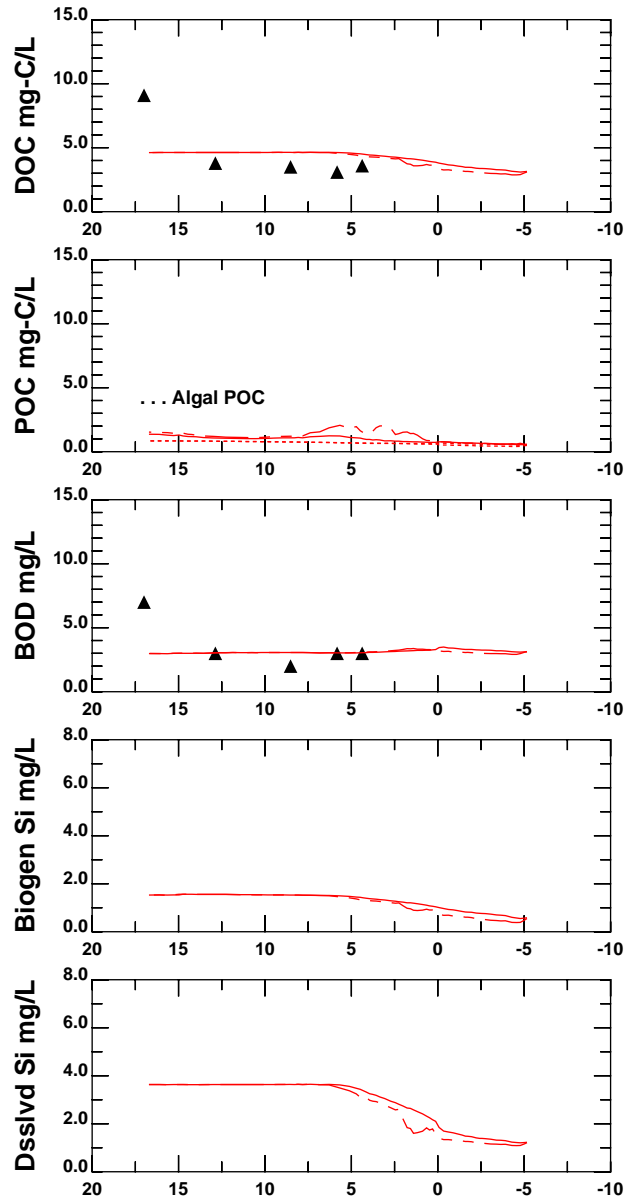
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

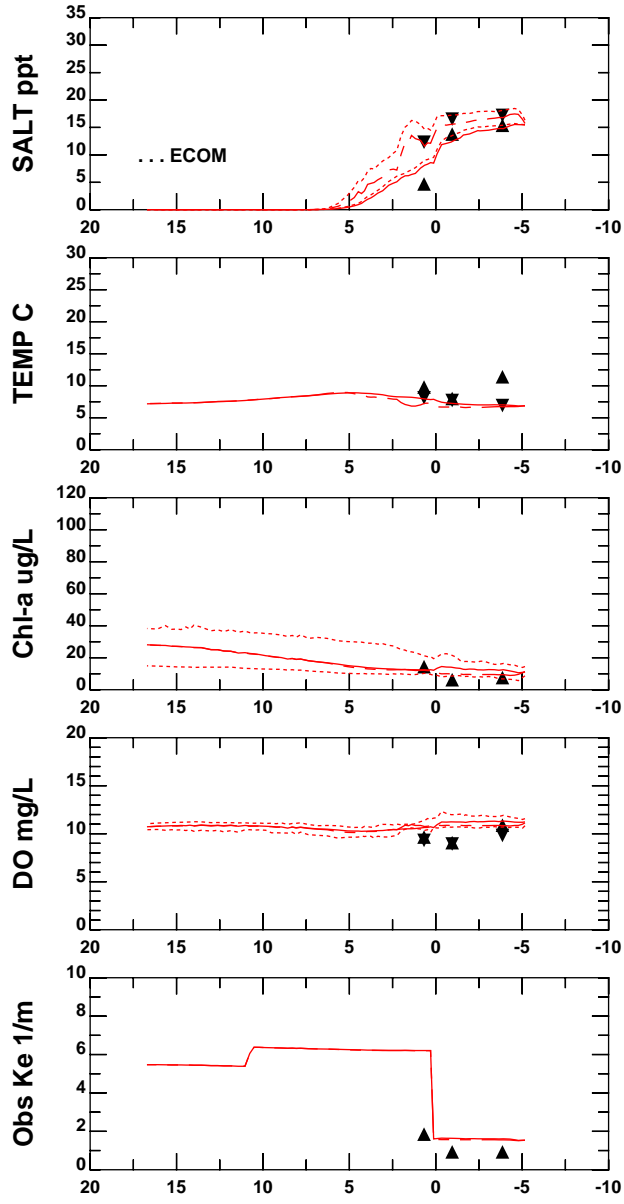


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304





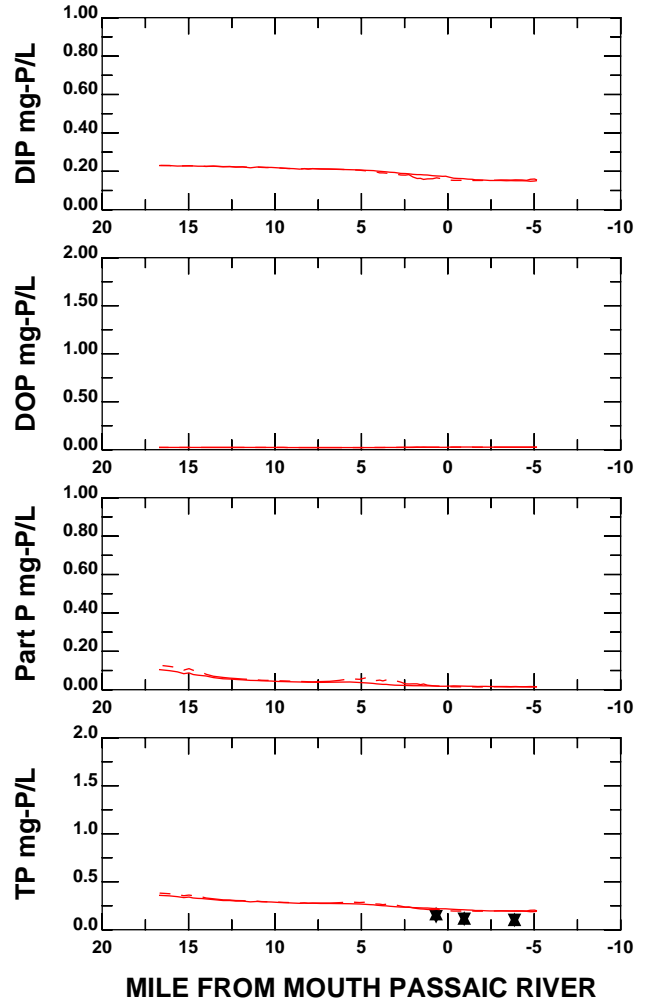
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304



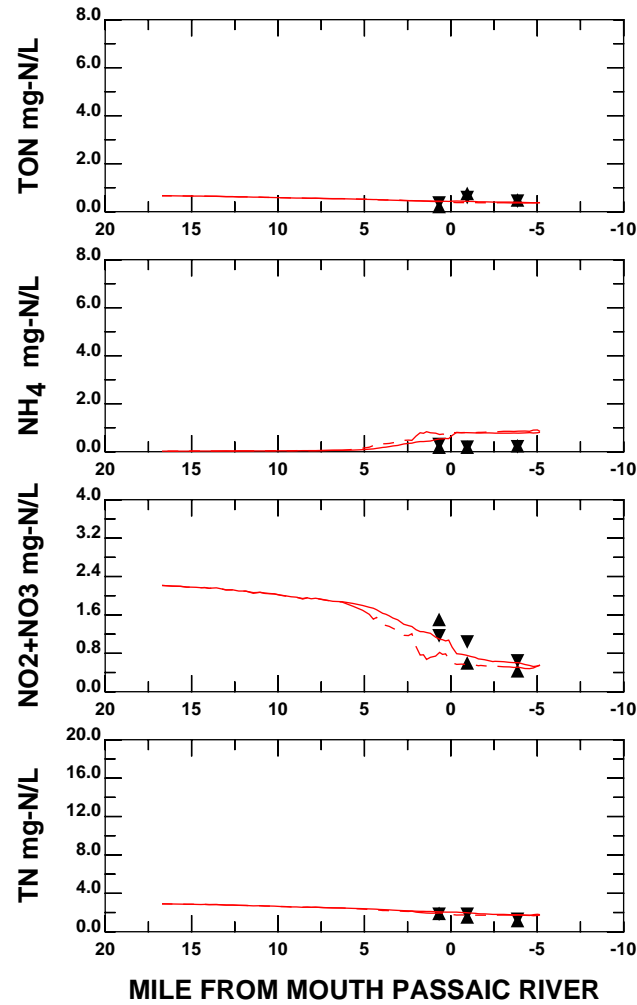
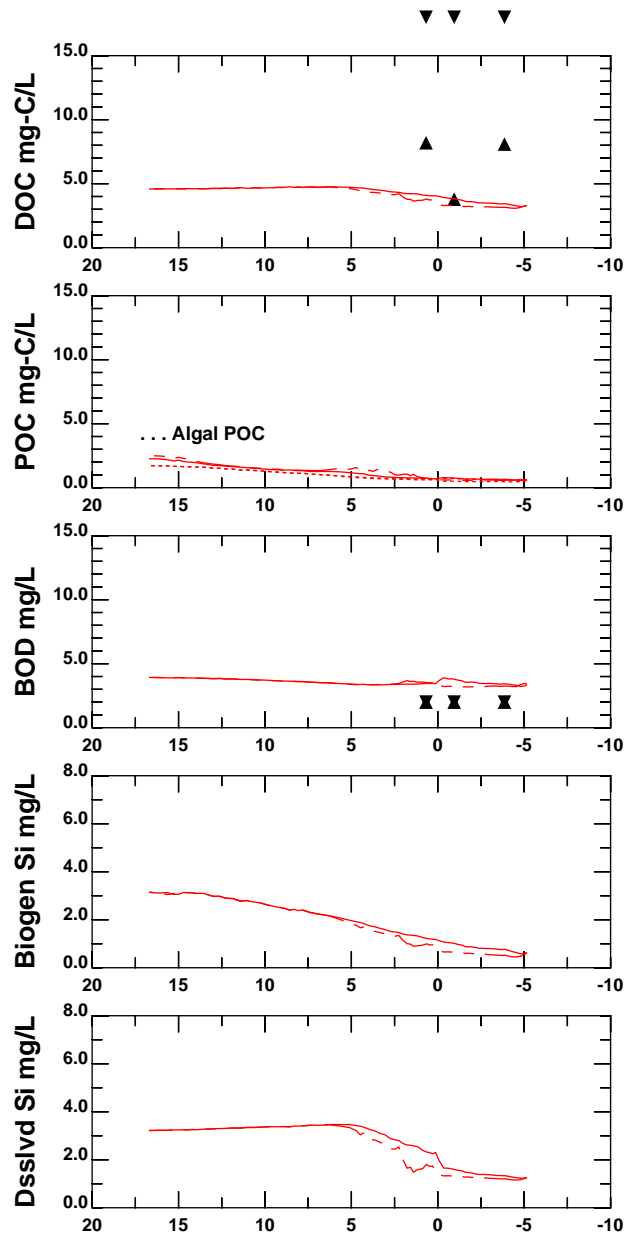
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Mar 31,2004

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



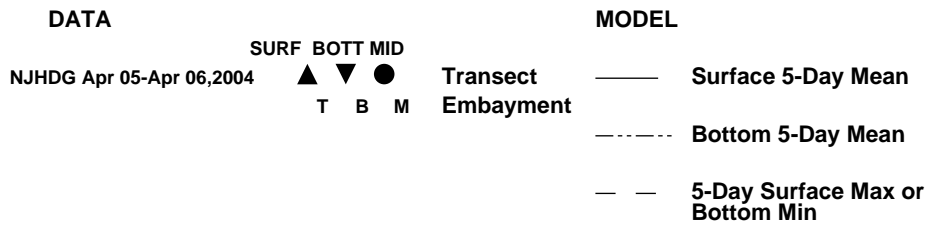
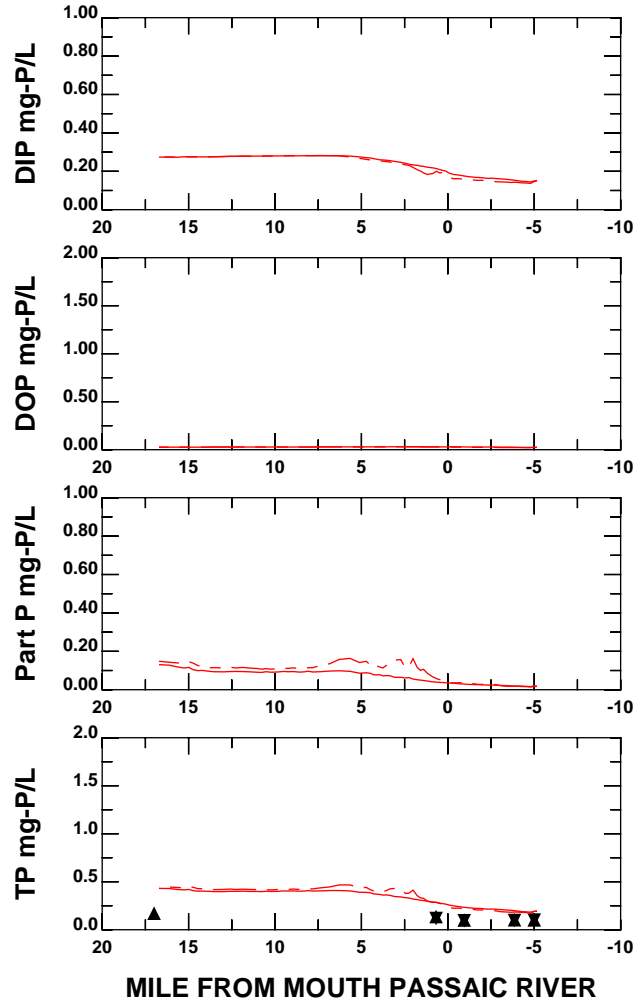
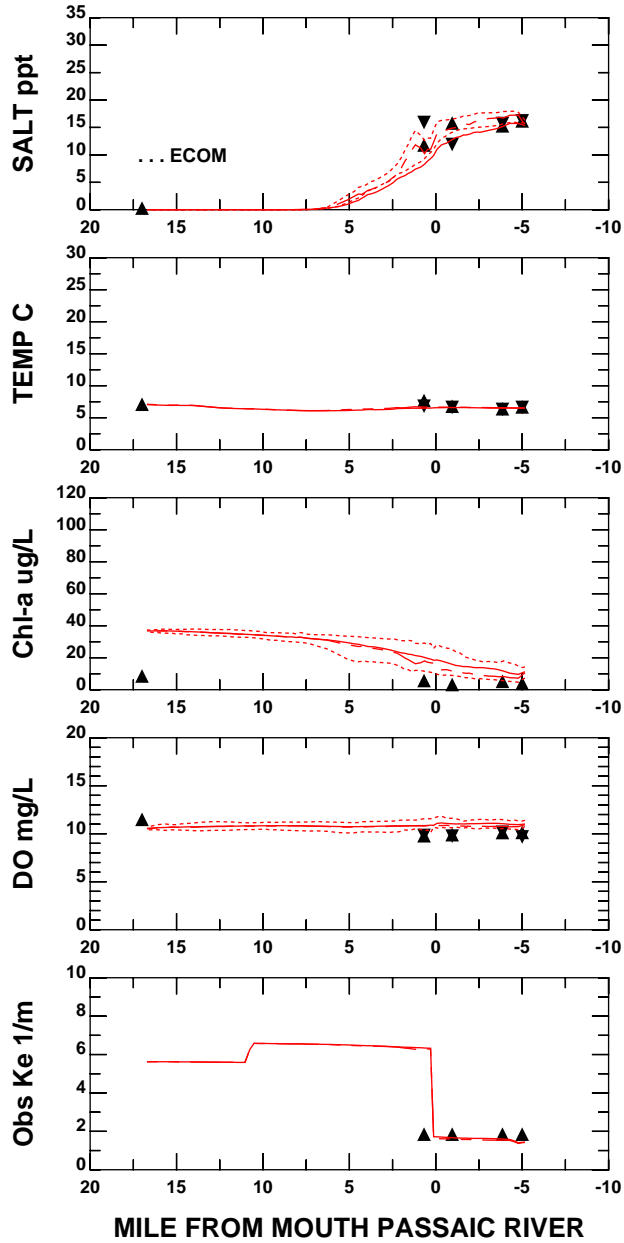
DATA  
NJHDG Mar 31,2004

MODEL

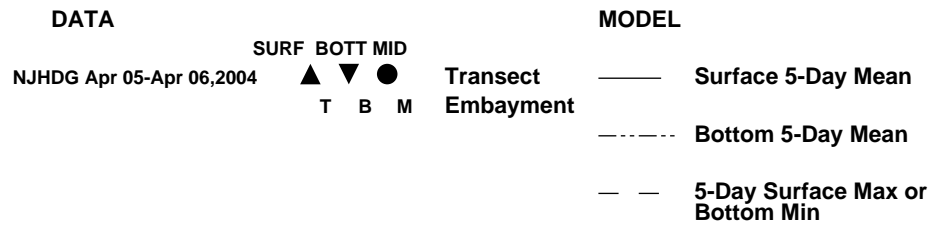
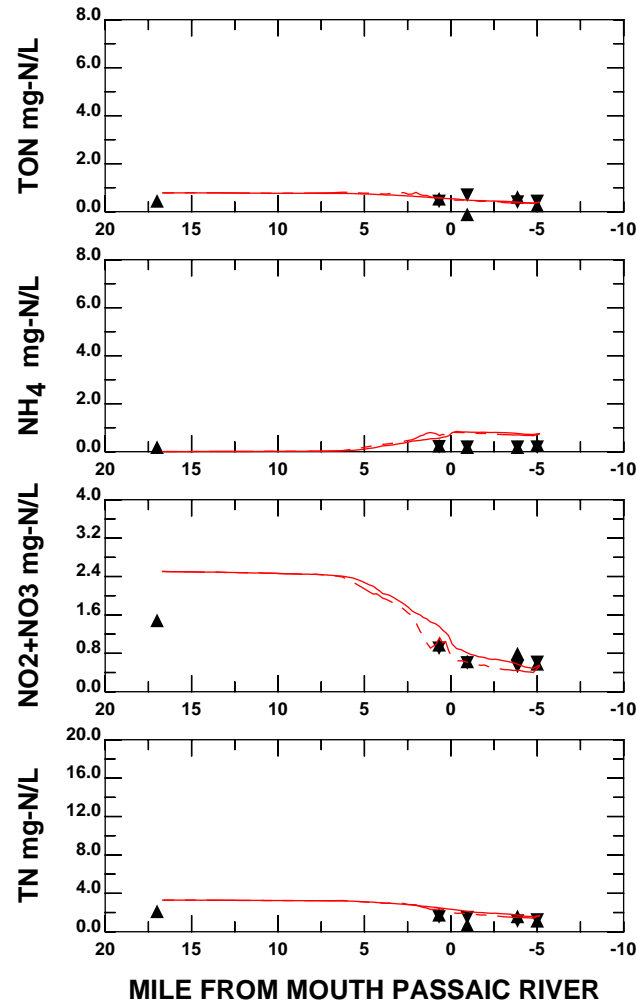
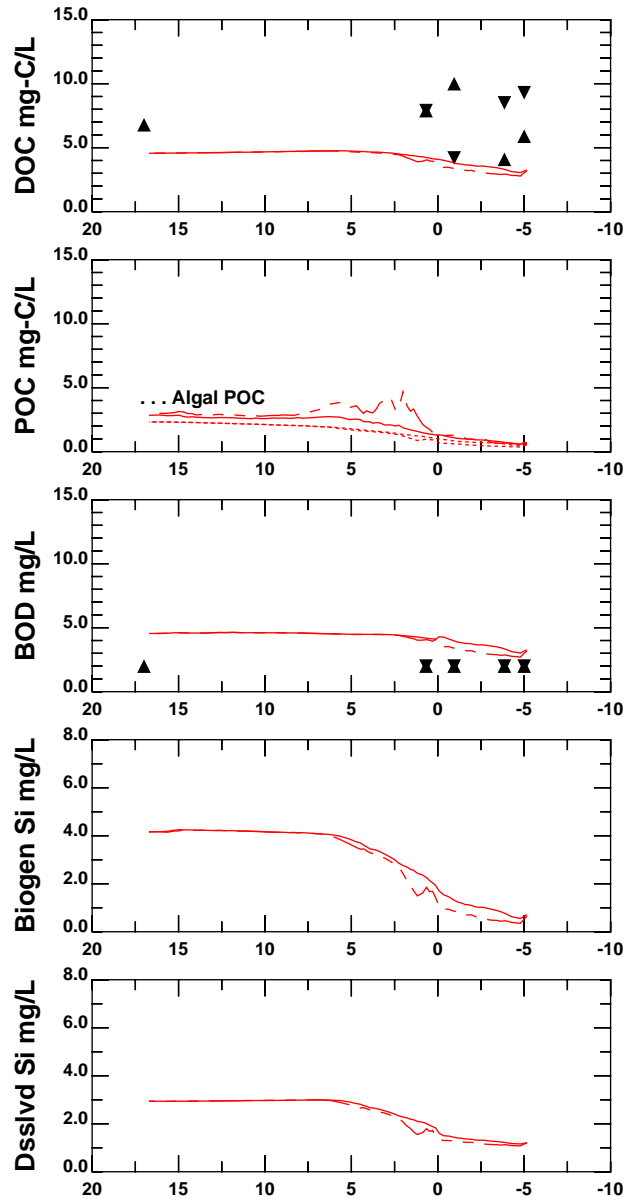
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

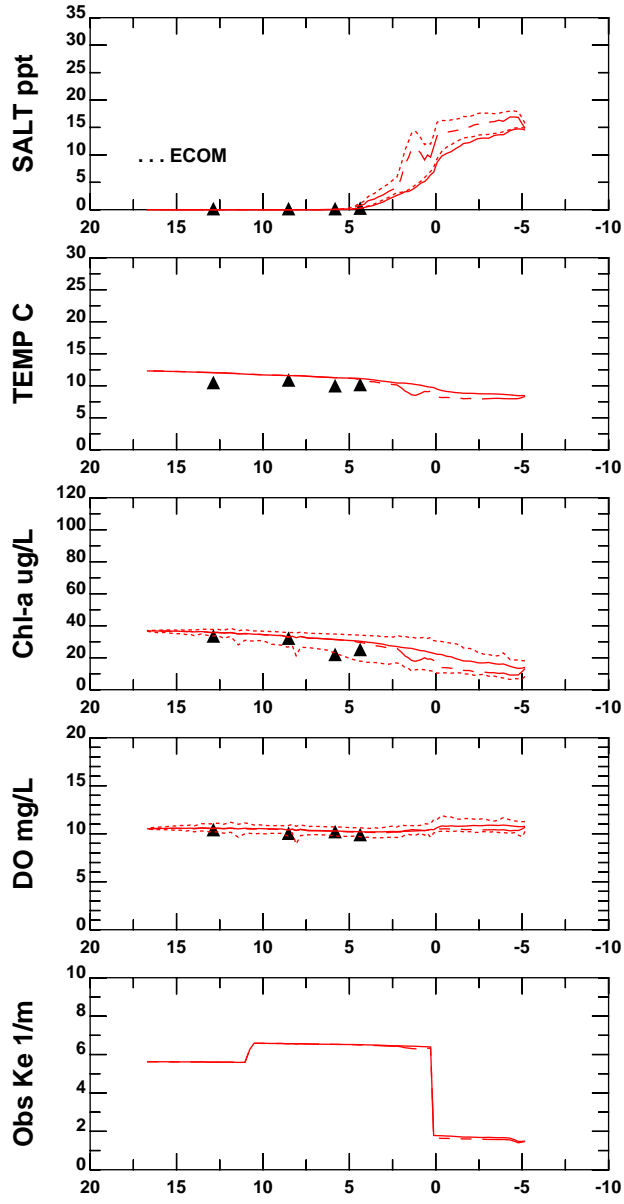
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

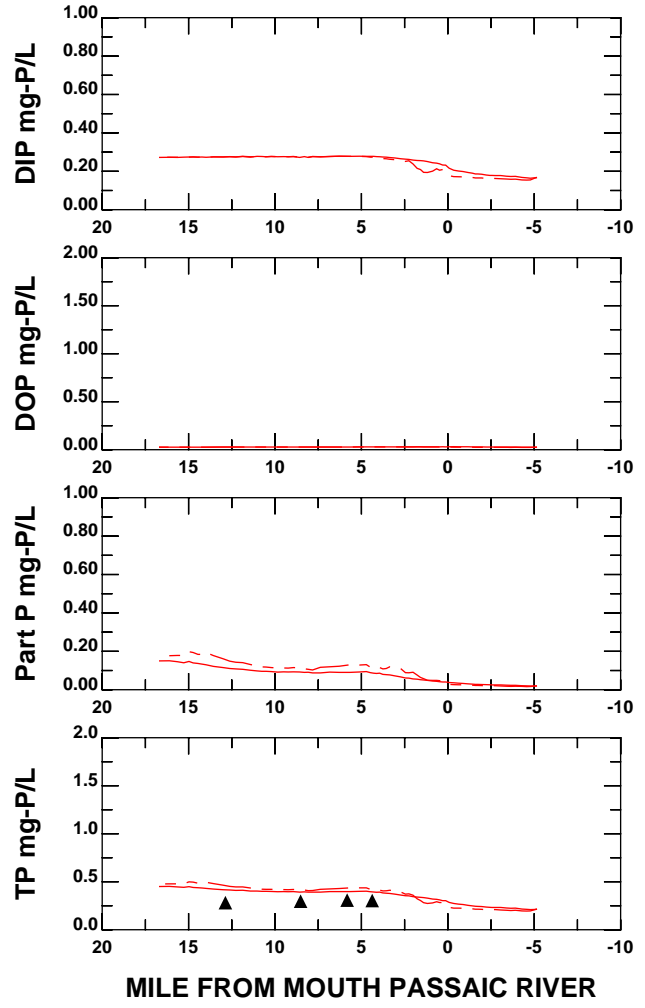


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

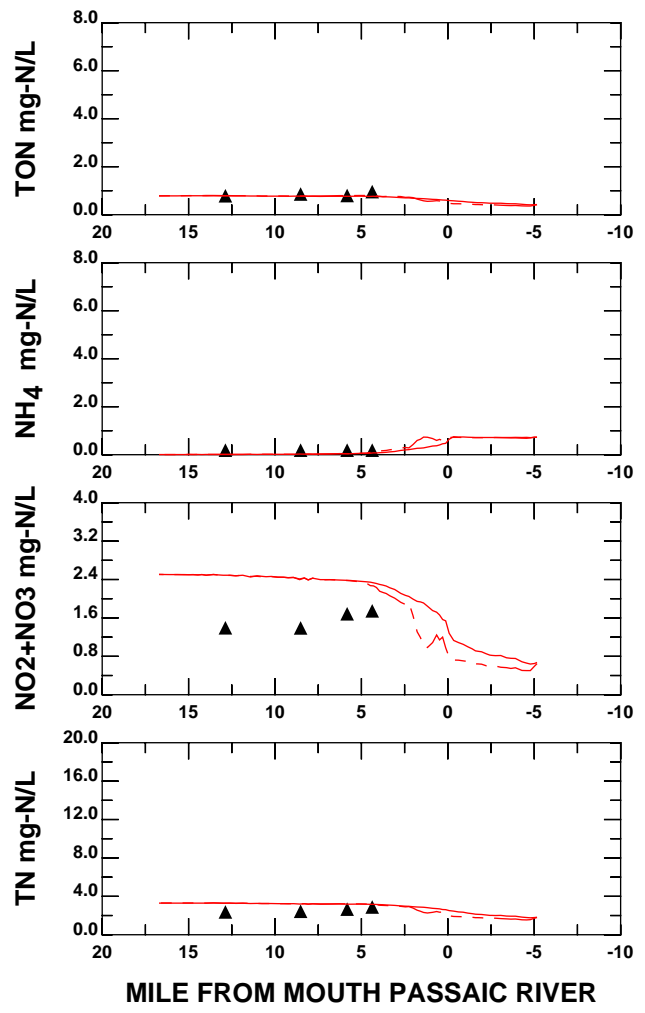
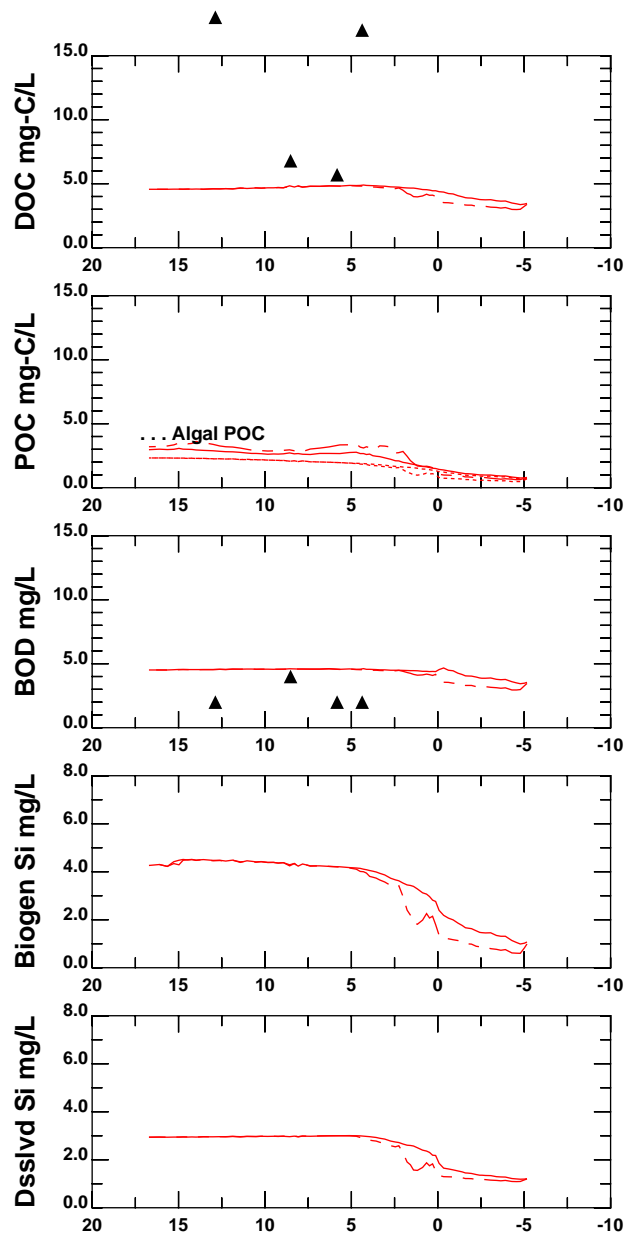


DATA  
 NJHDG Apr 14,2004

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



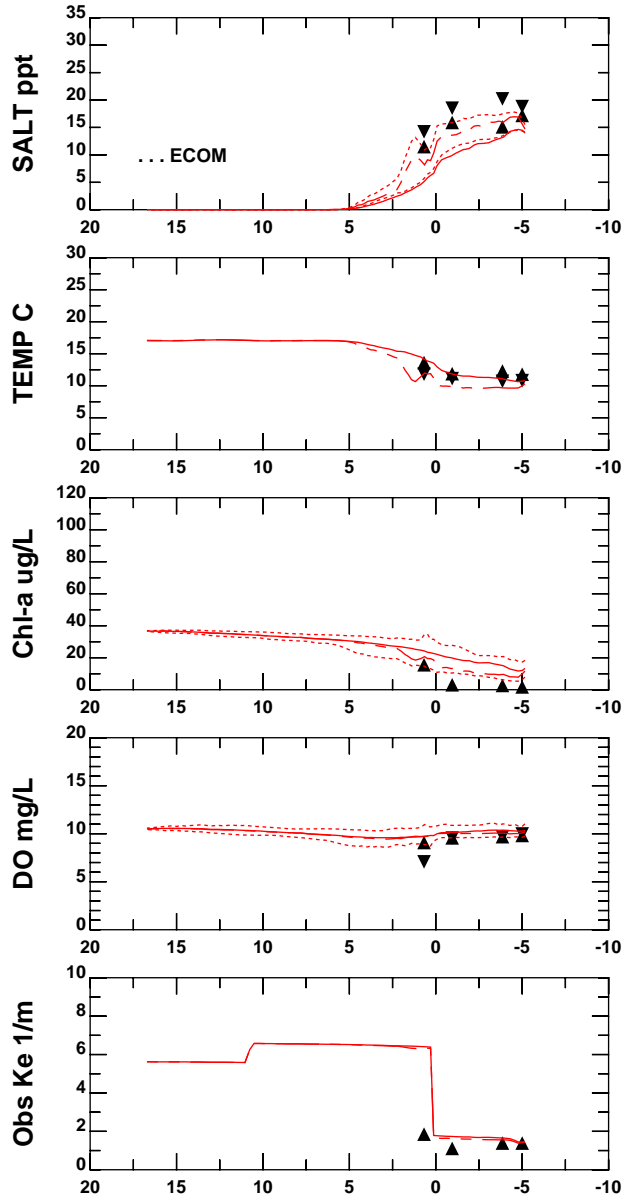
DATA  
NJHDG Apr 14,2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

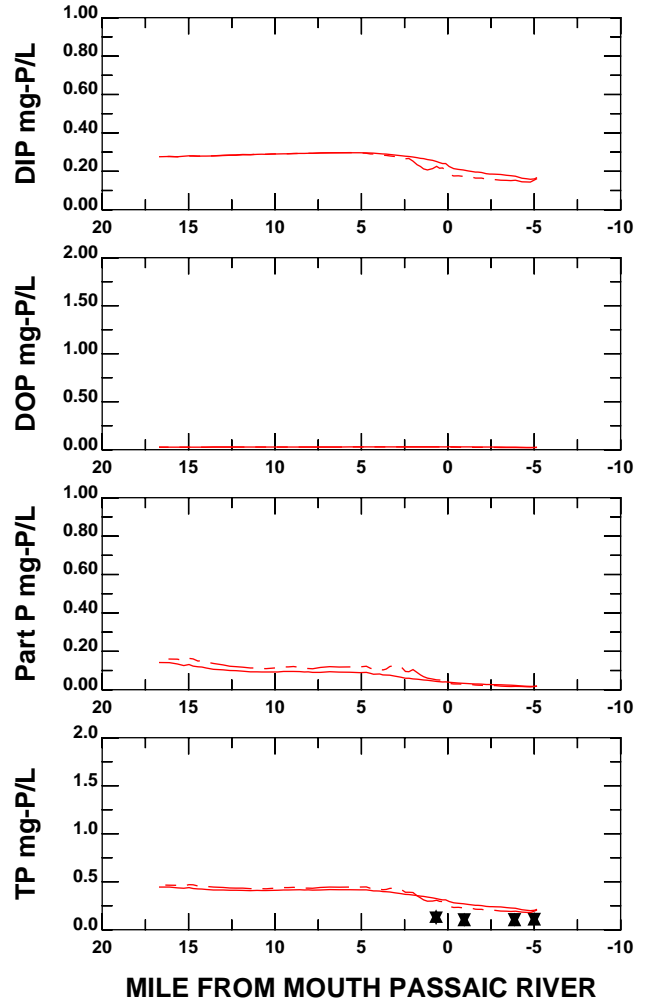
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304

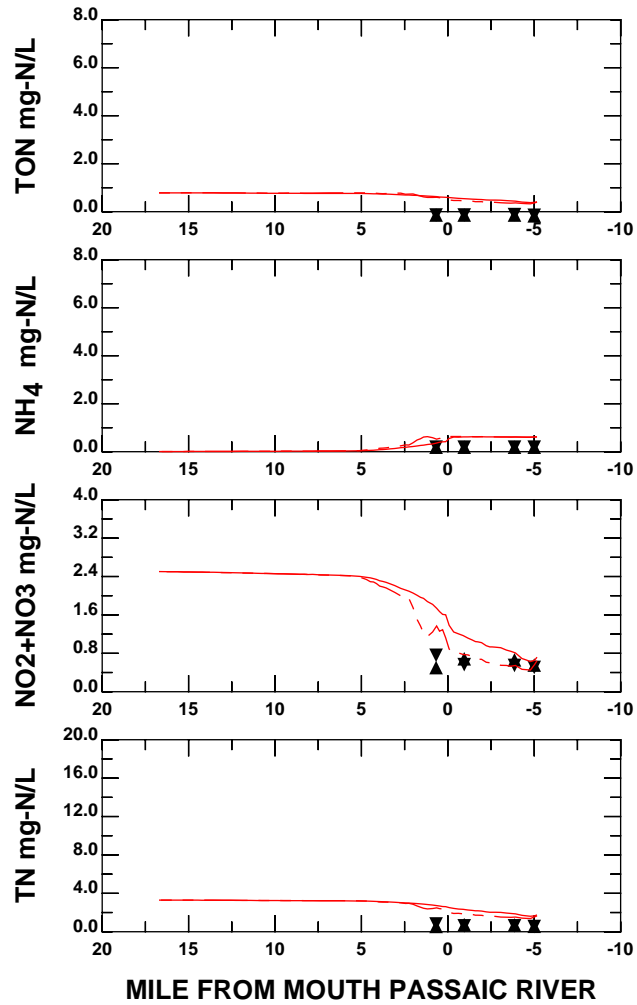
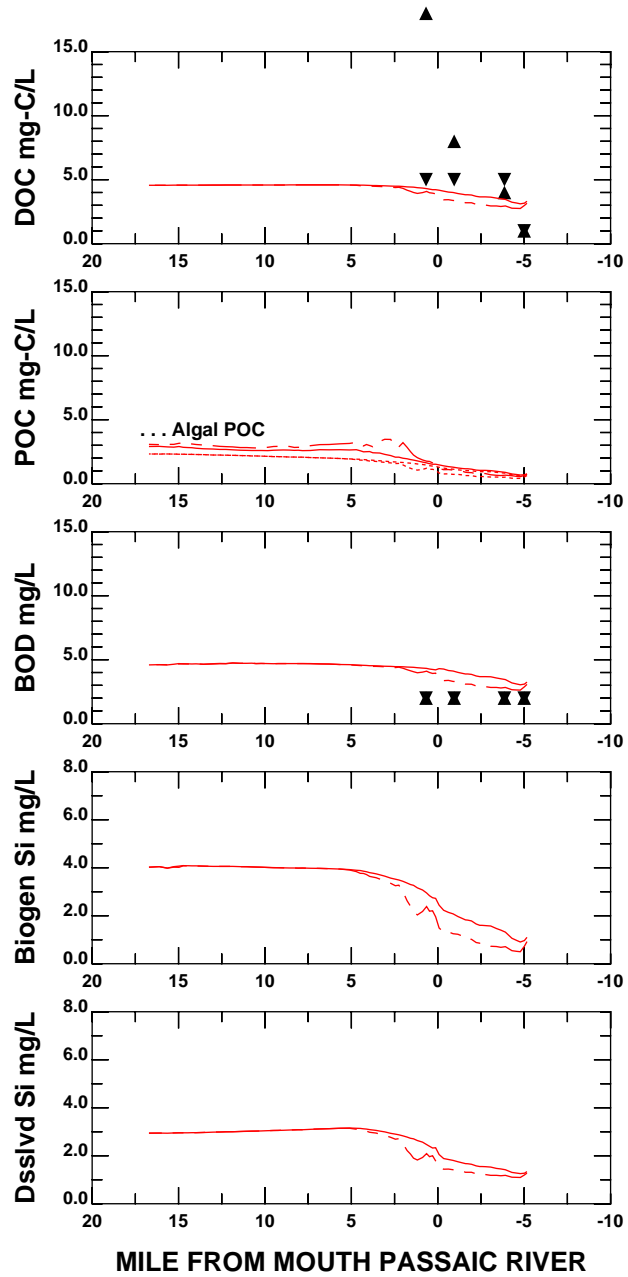


DATA  
NJHDG Apr 22,2004

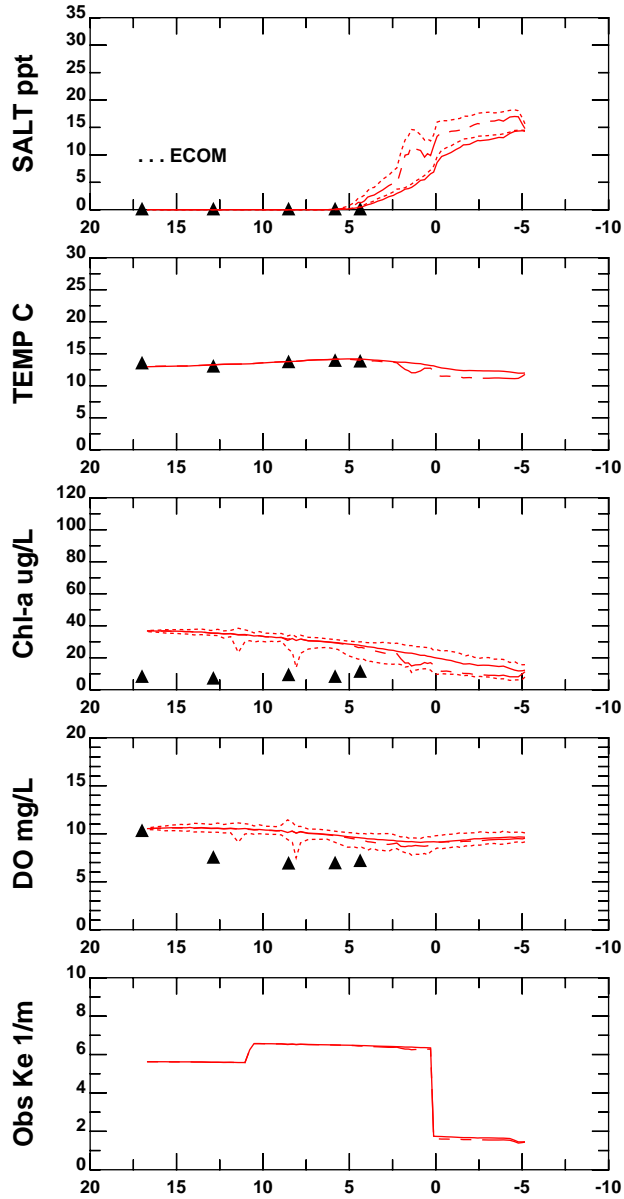
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

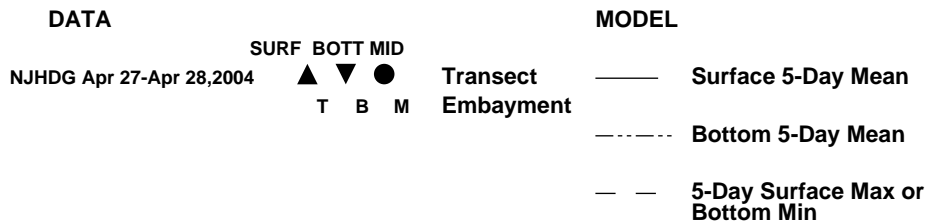
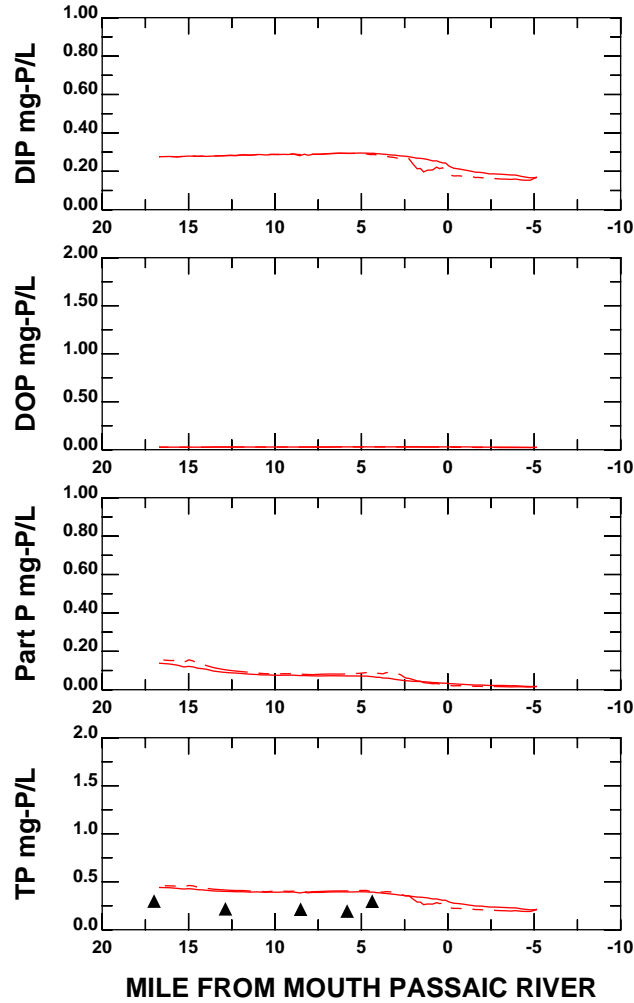


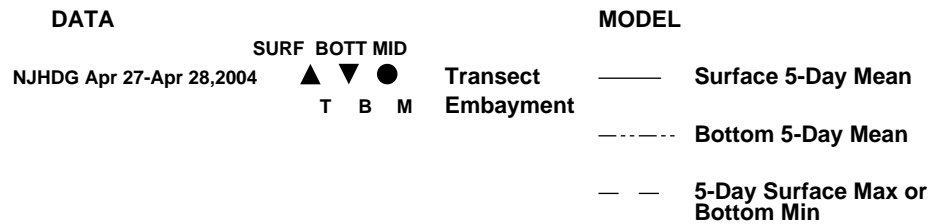
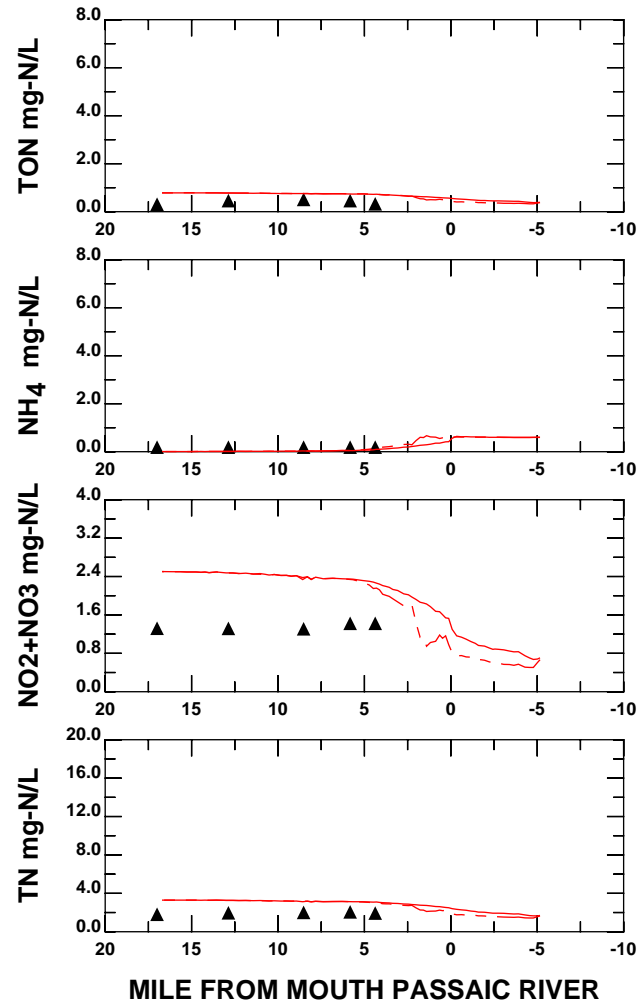
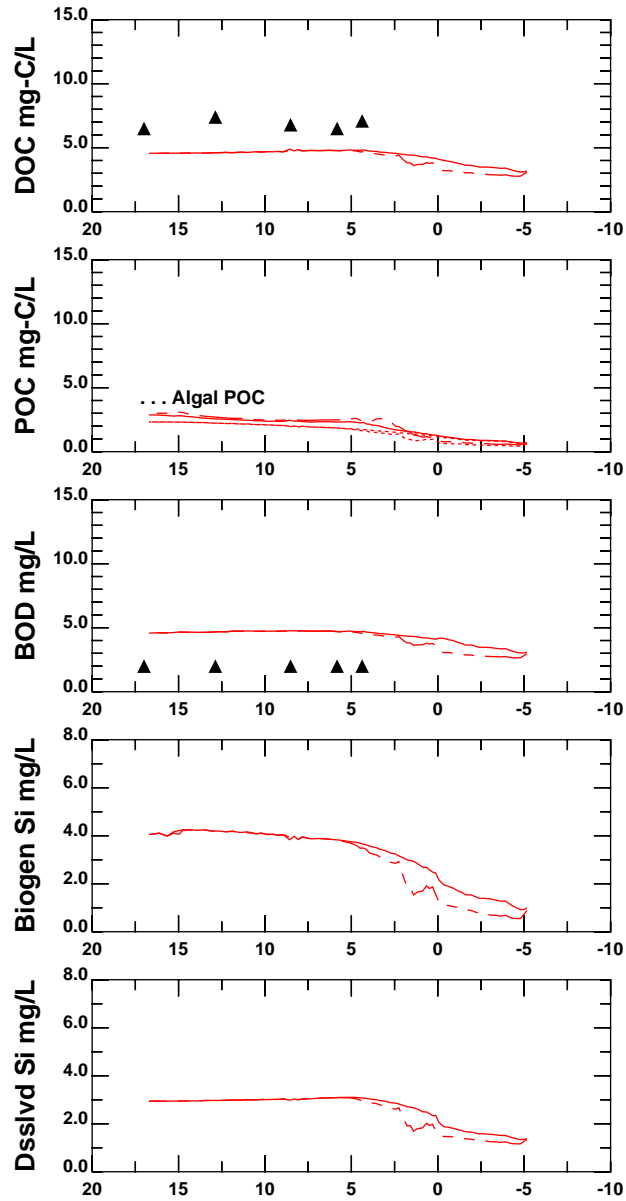


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

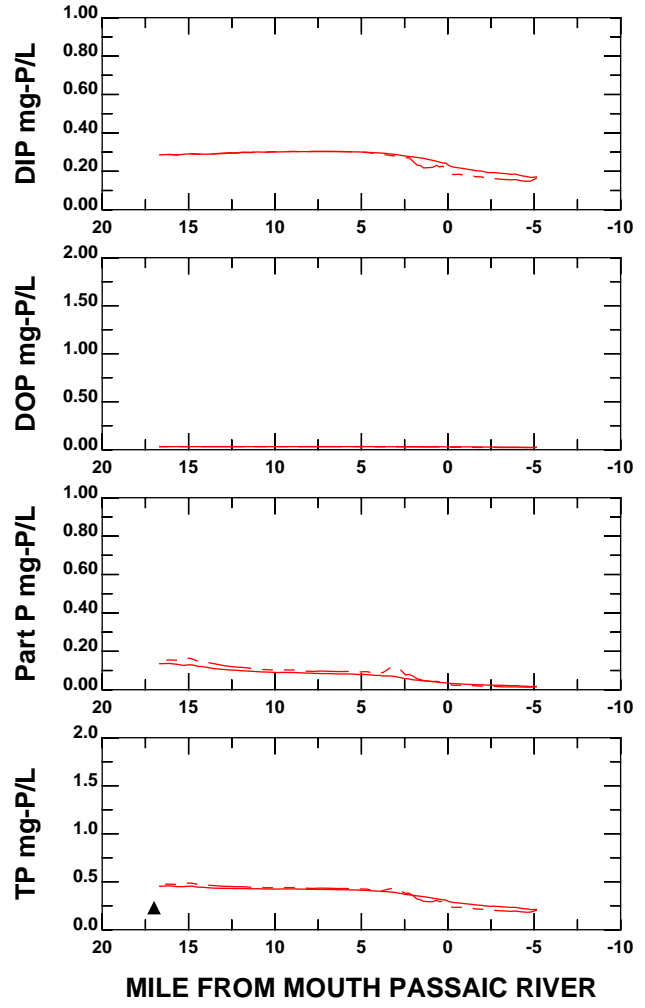
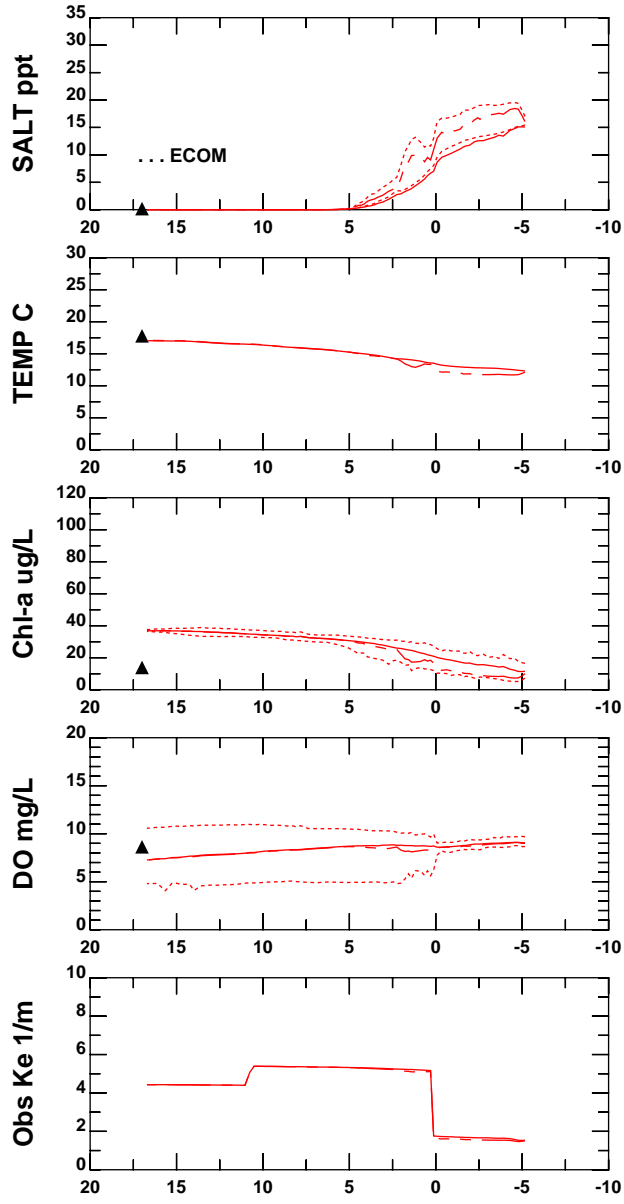


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



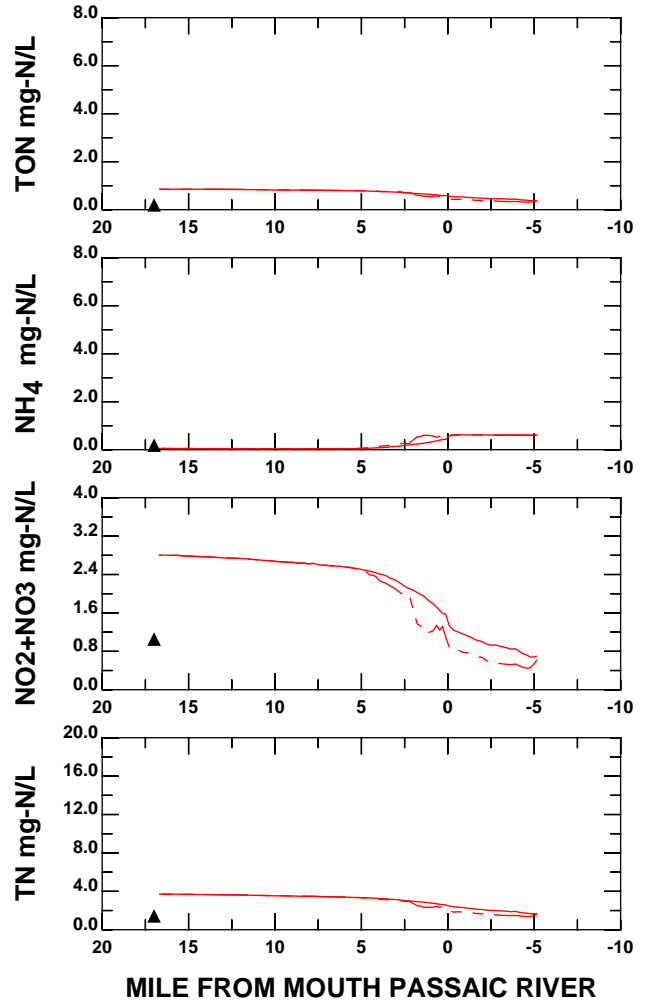
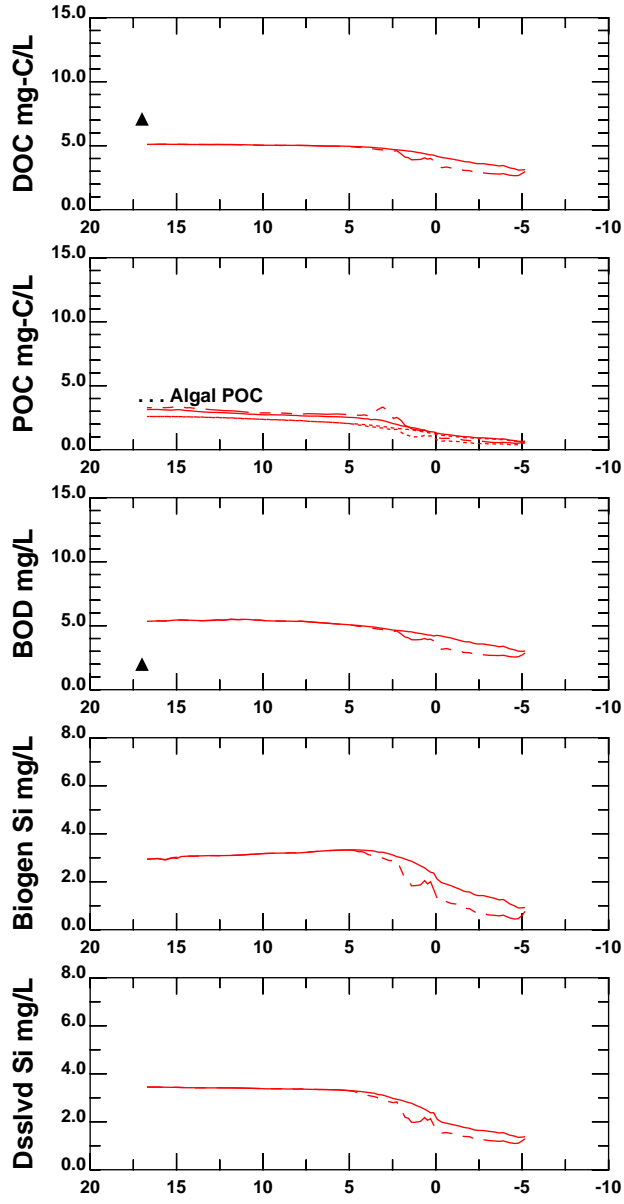
**DATA**  
NJHDG May 03,2004

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

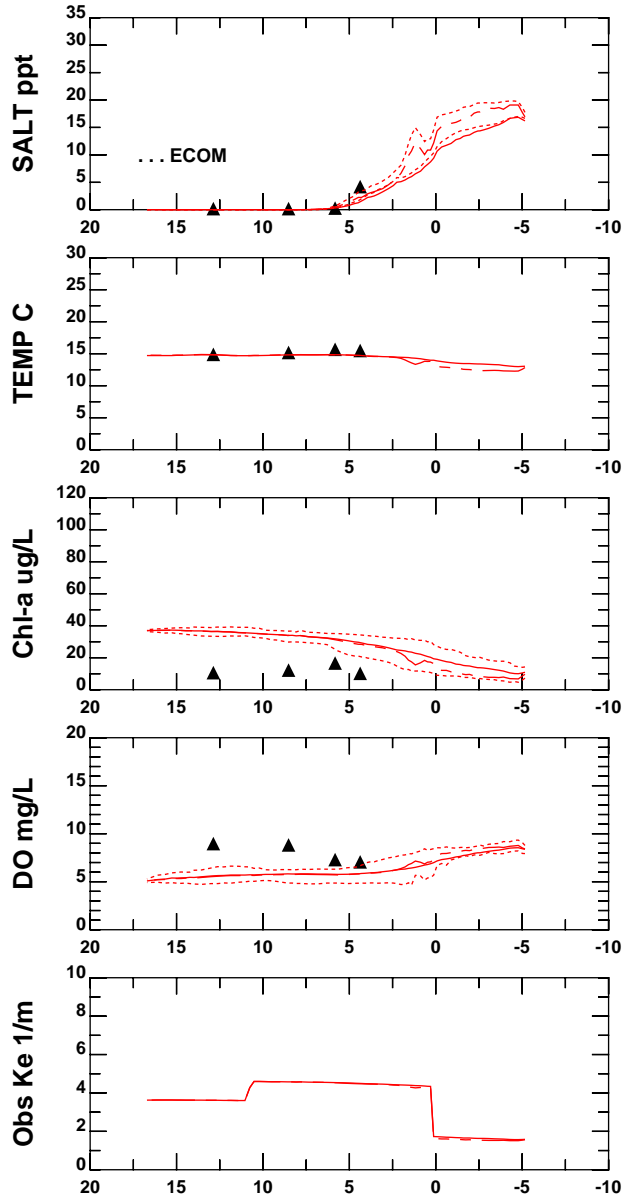


DATA  
NJHDG May 03,2004

SURF BOTT MID  
▲ ▼ ●  
T B M  
Transect  
Embayment

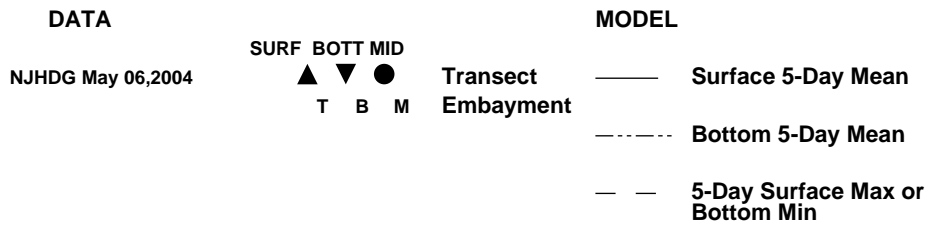
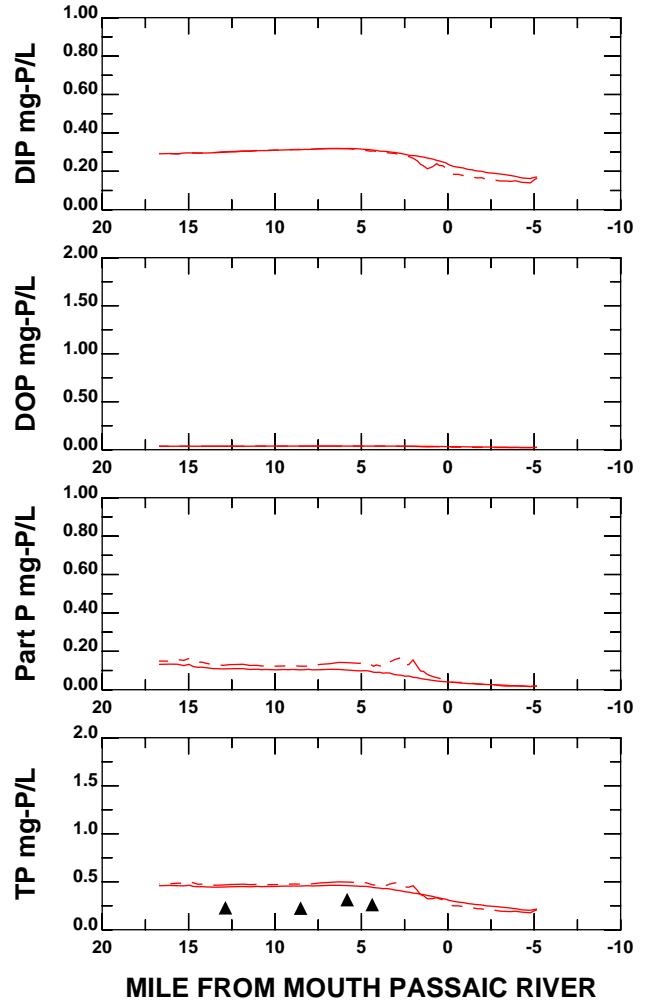
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

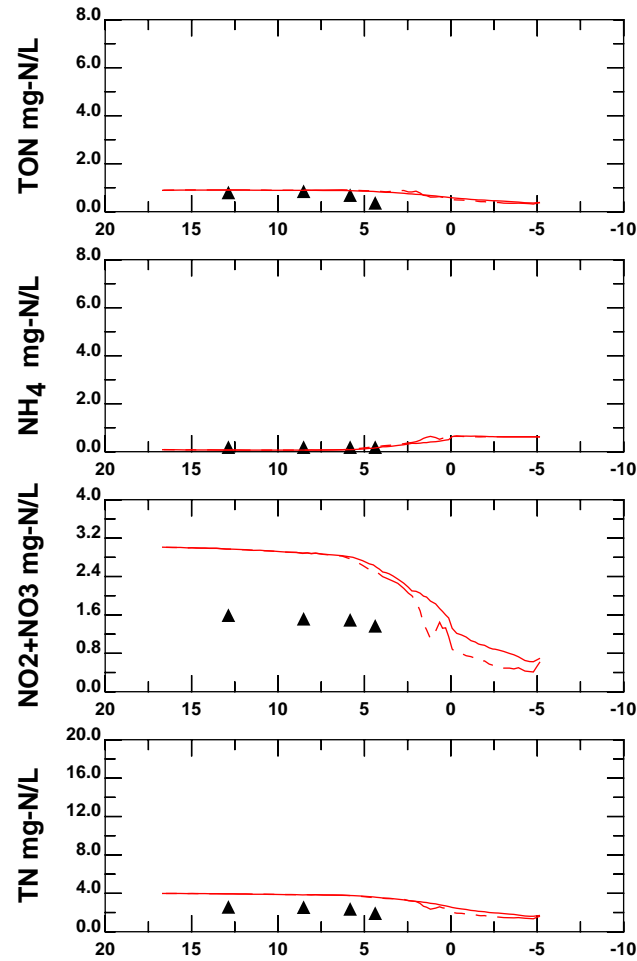
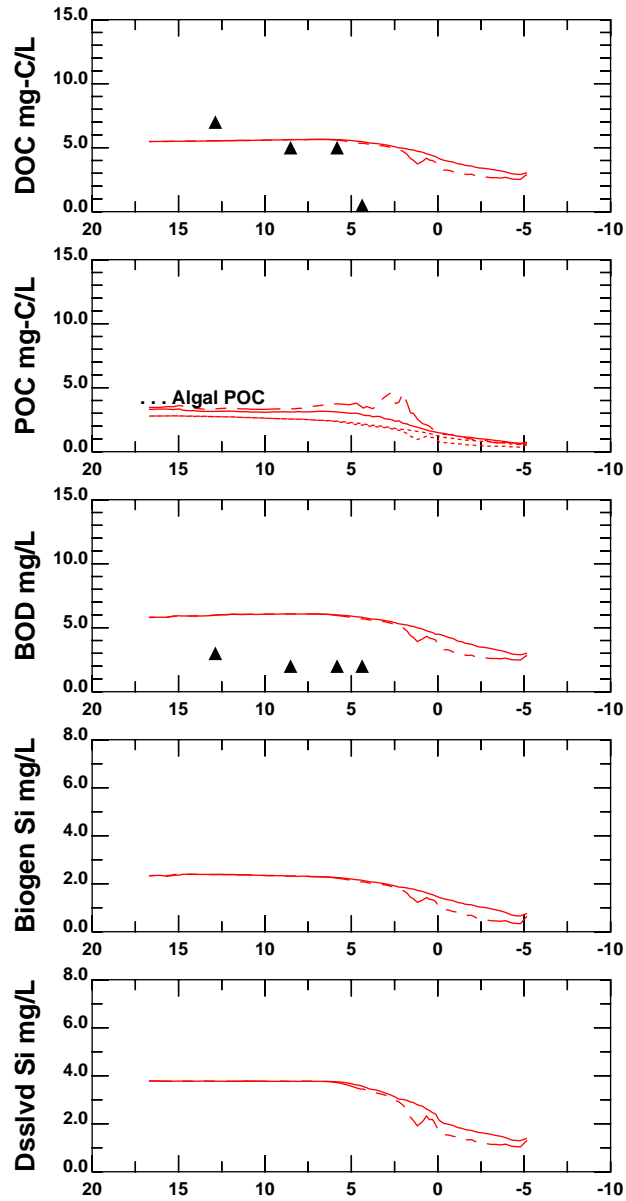
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



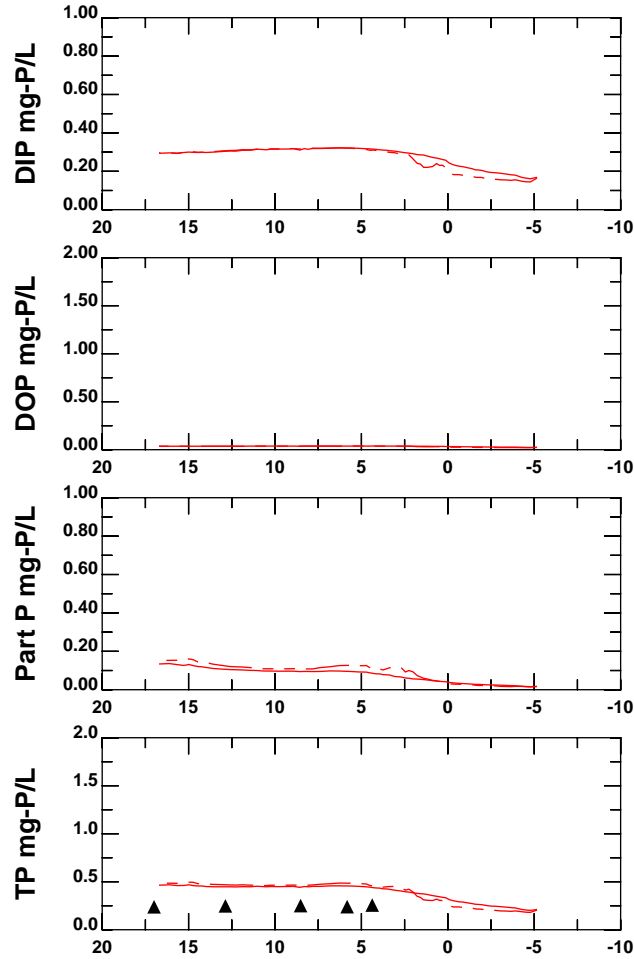
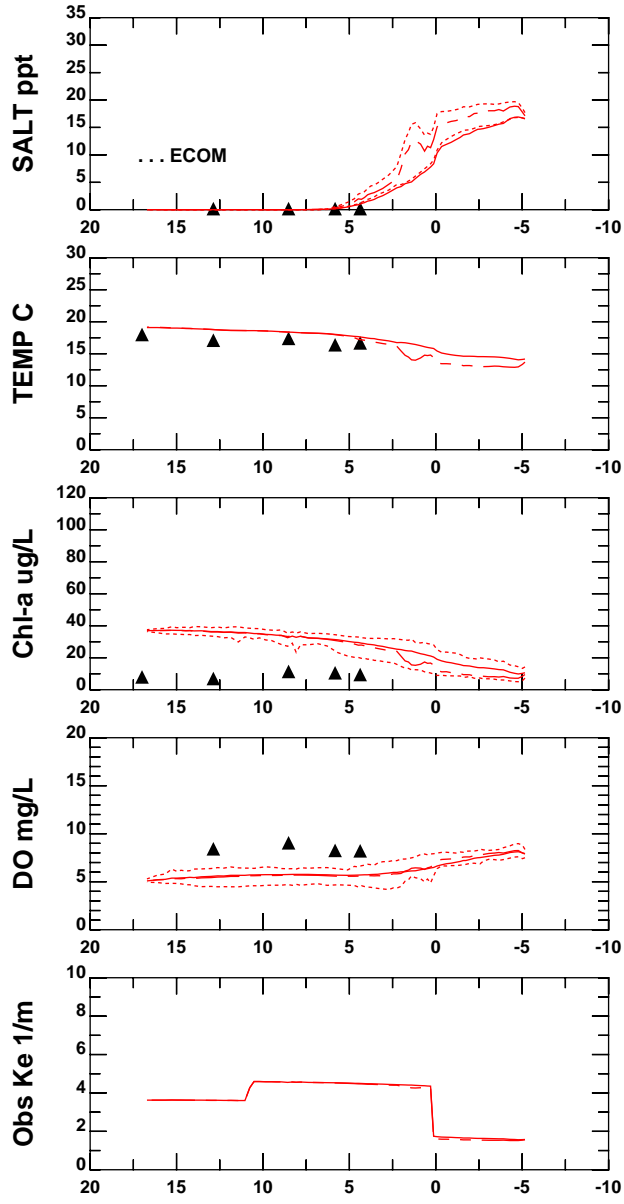


DATA  
NJHDG May 06,2004

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



**DATA**  
NJHDG May 10,2004

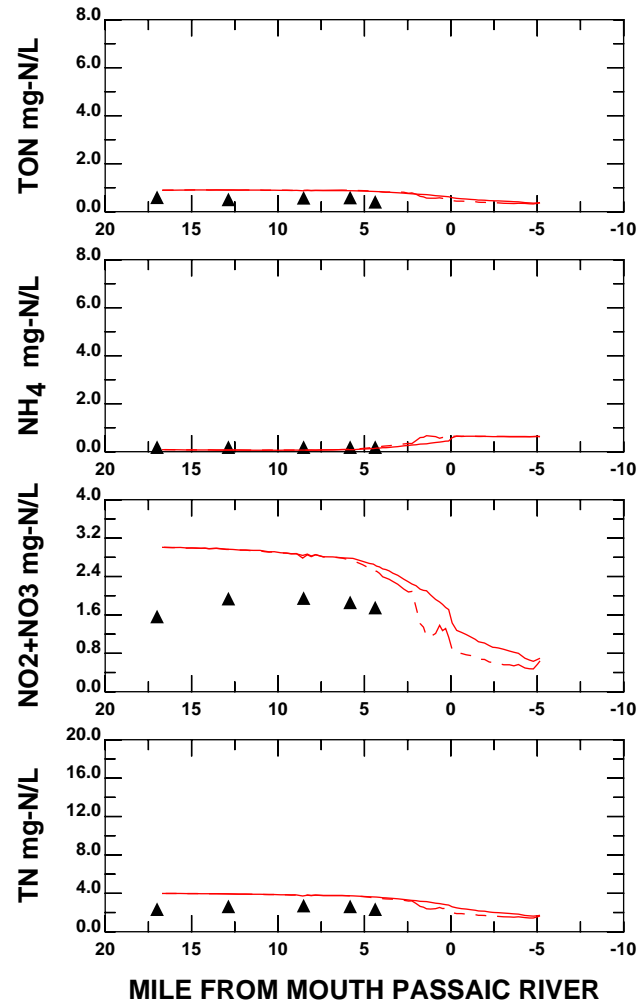
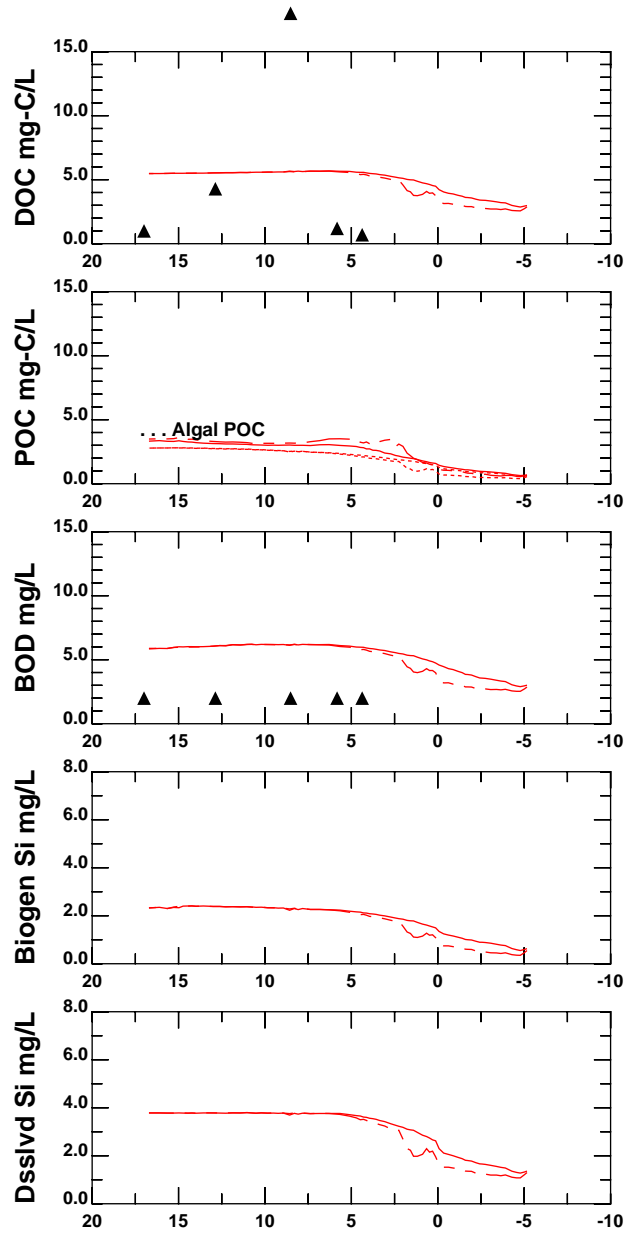
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

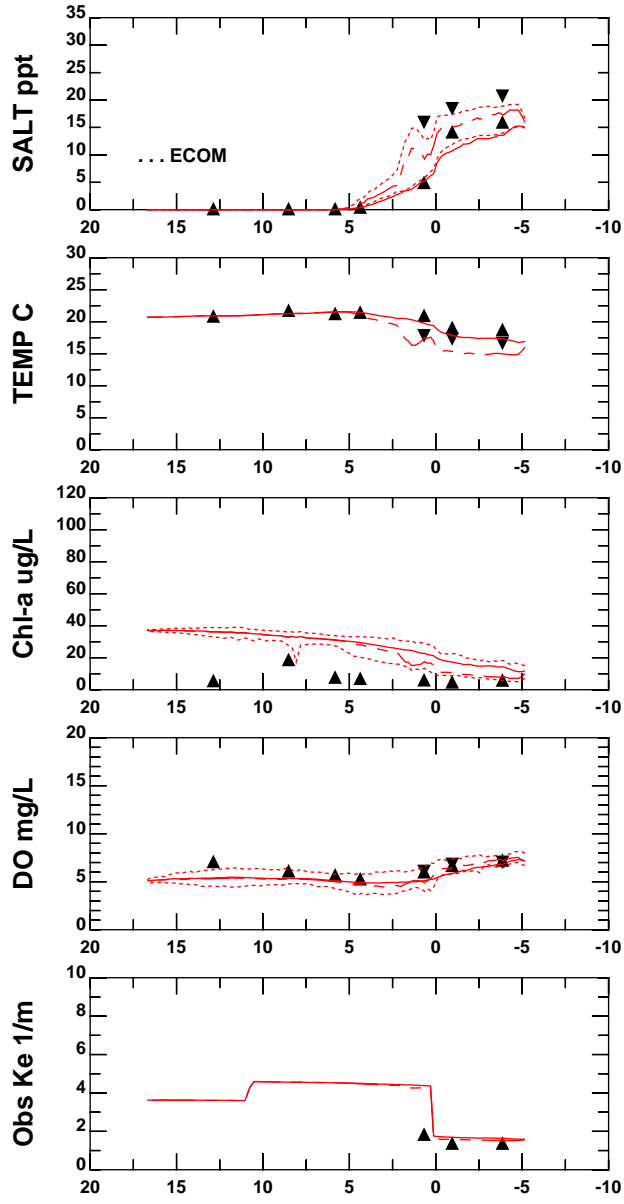
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

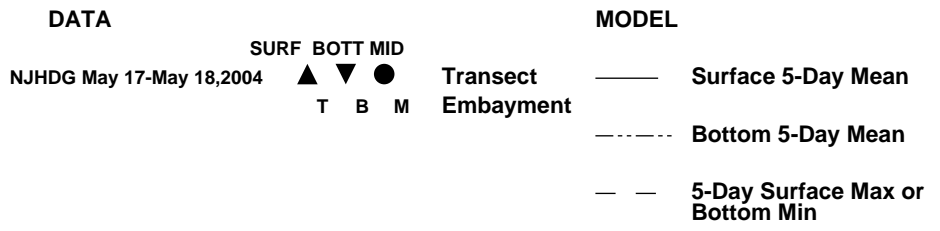
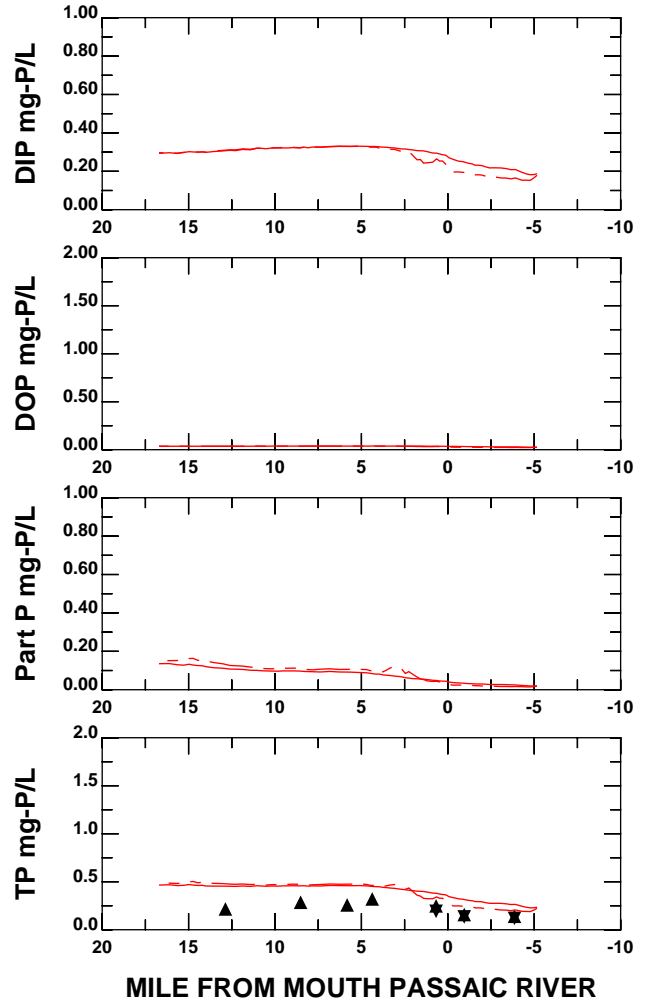


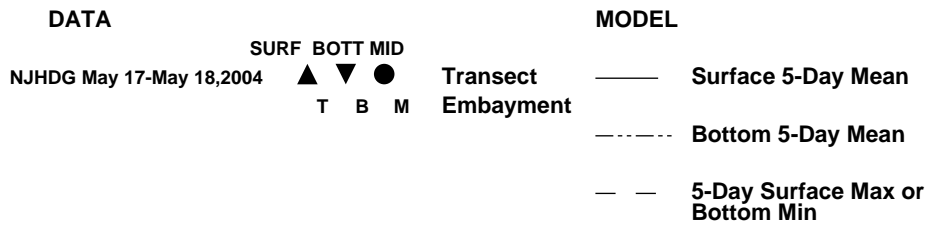
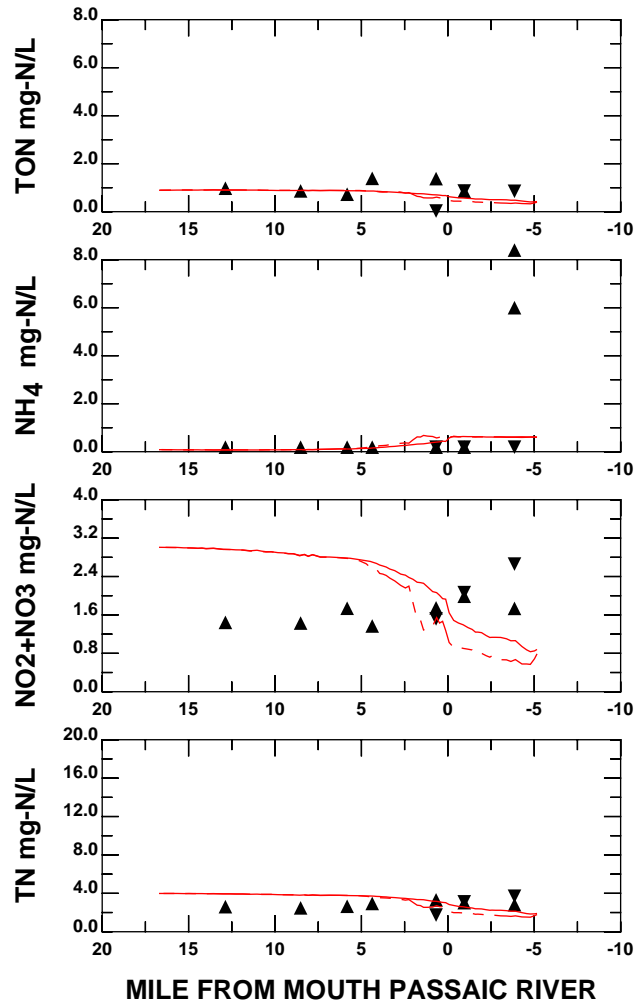
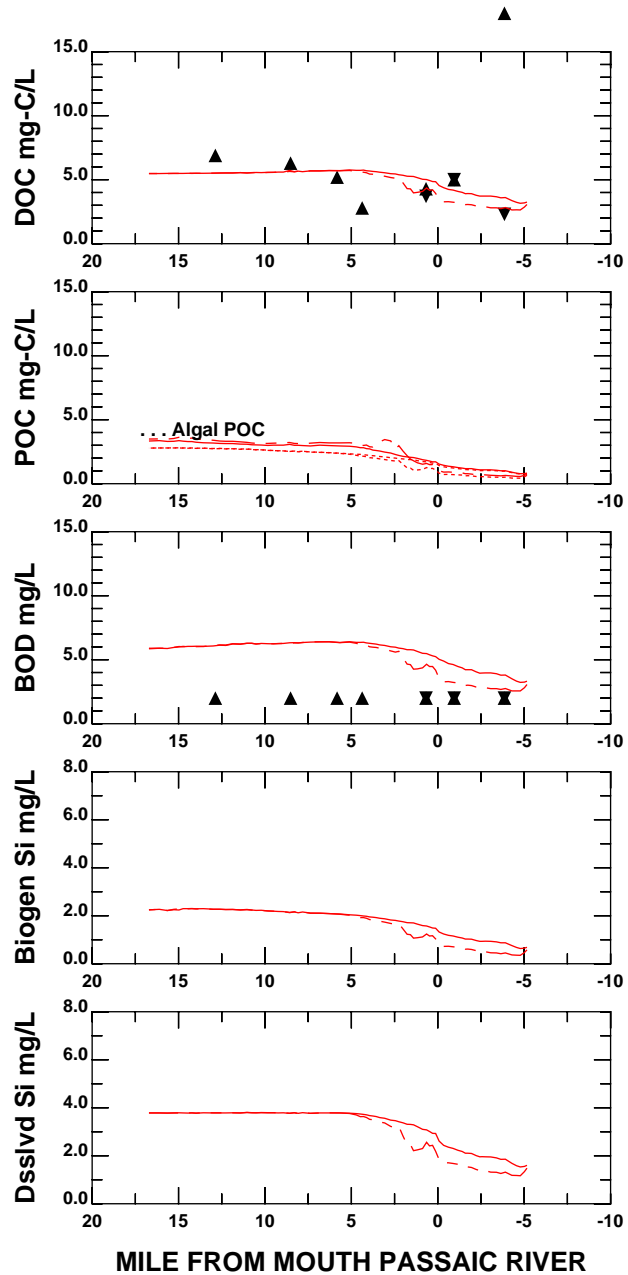


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

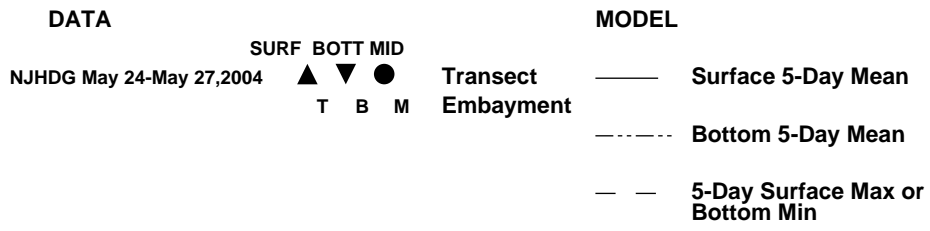
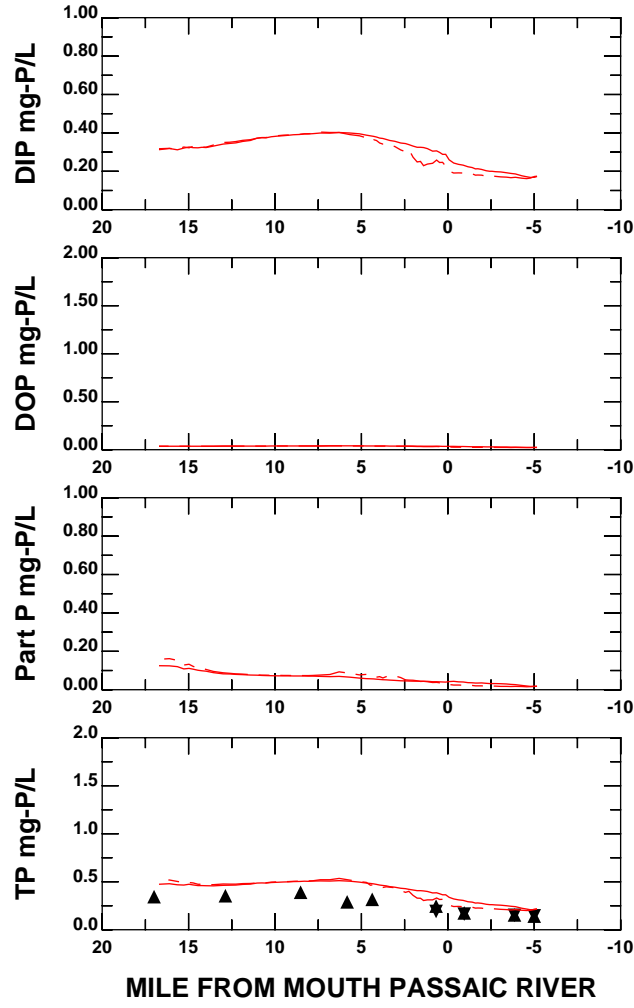
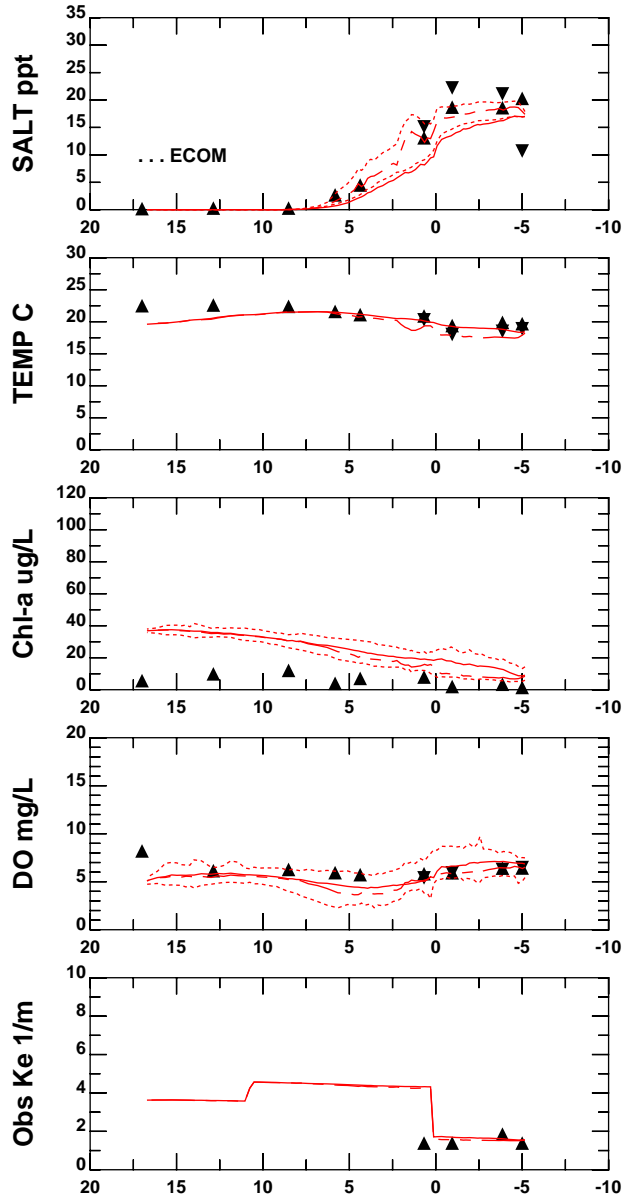


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

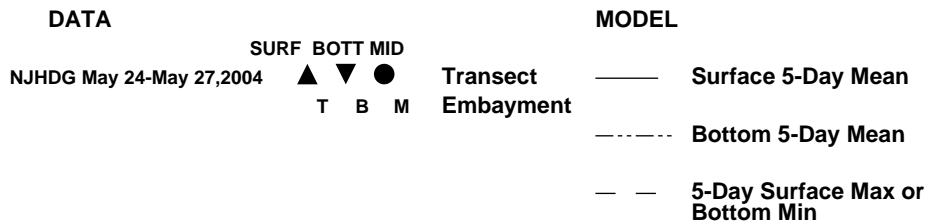
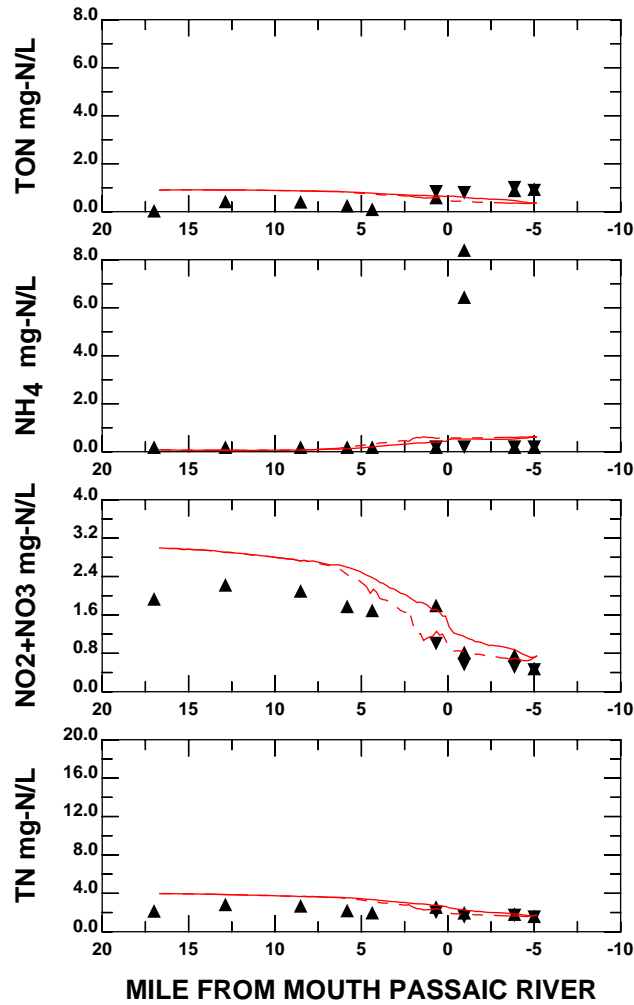
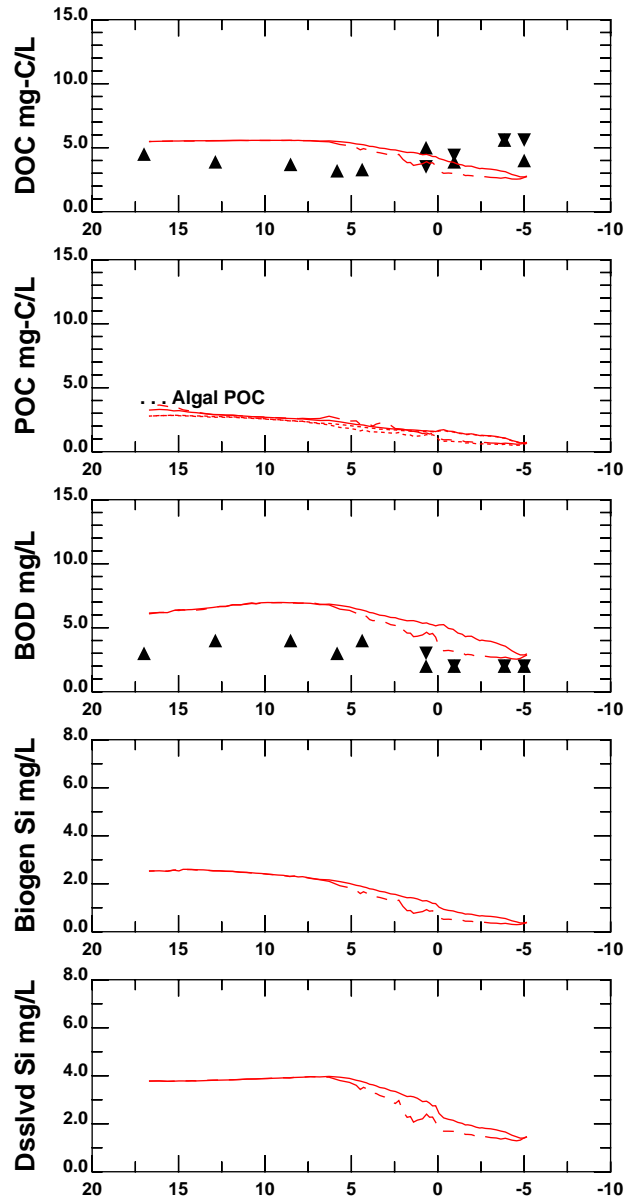




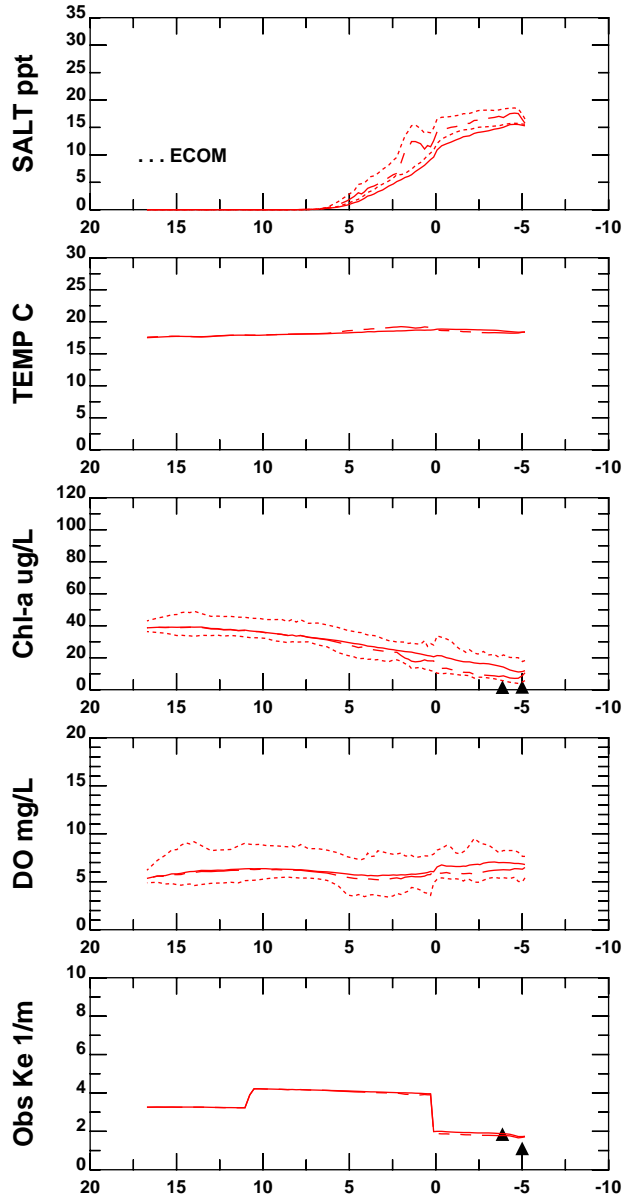
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



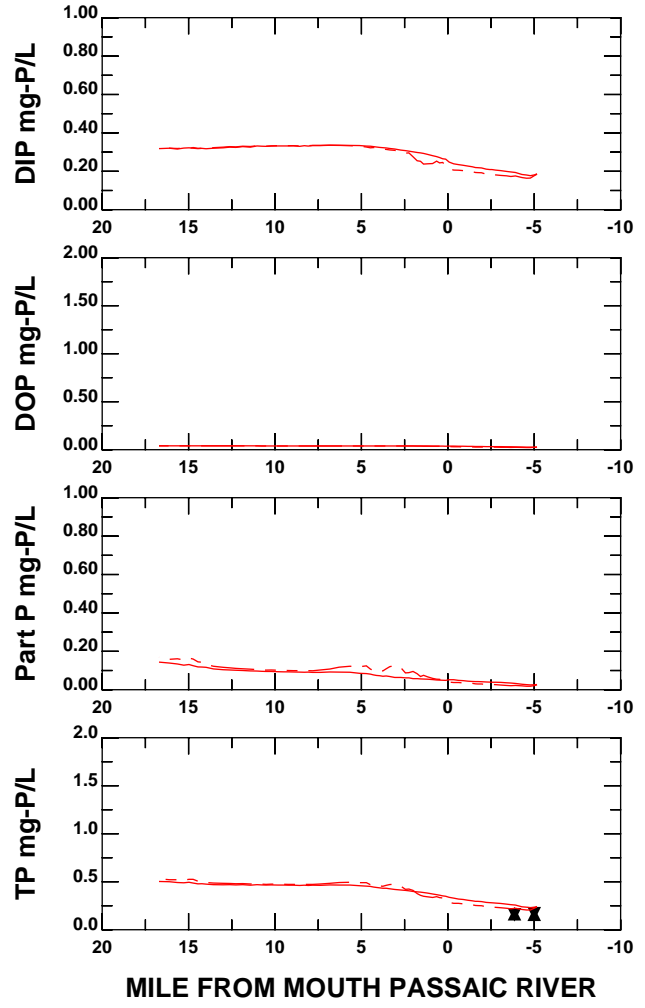
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0304

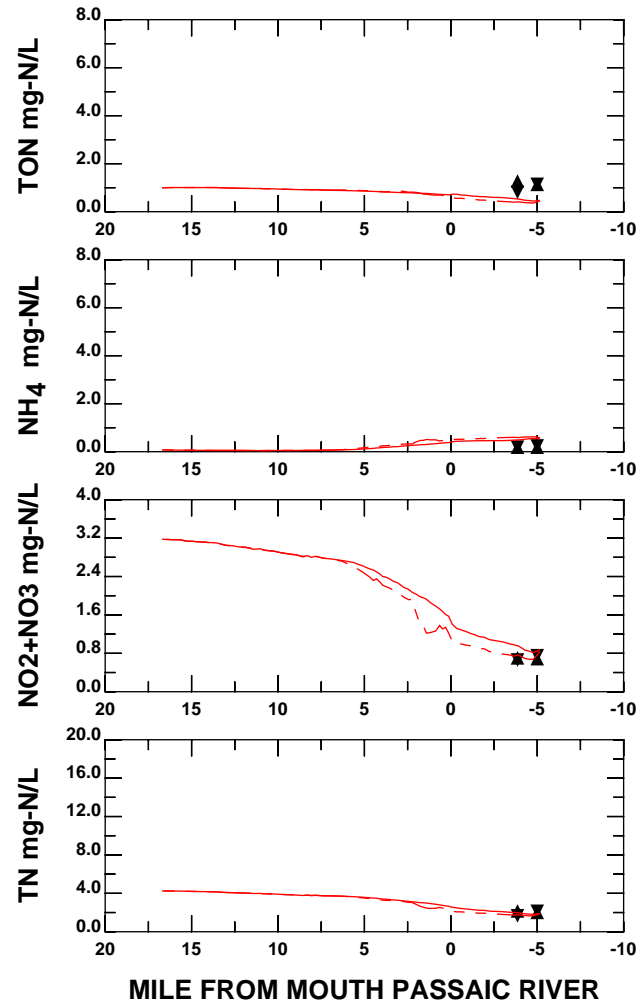
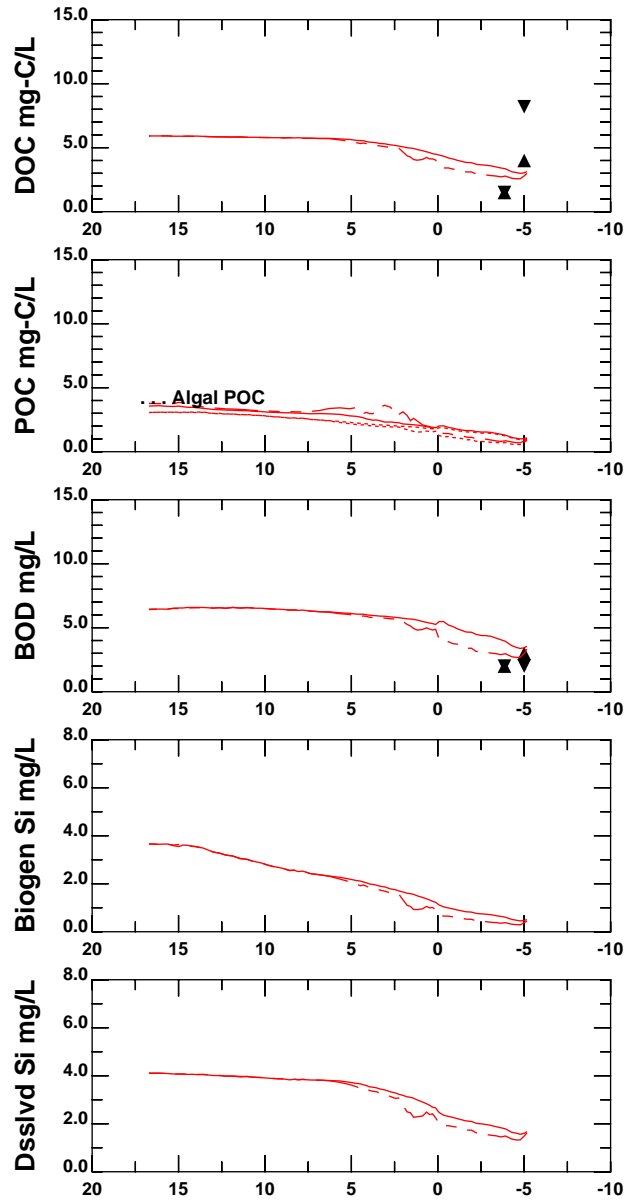


DATA  
NJHDG Jun 01,2004

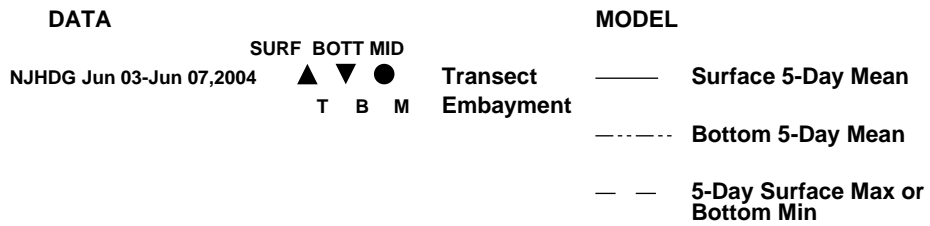
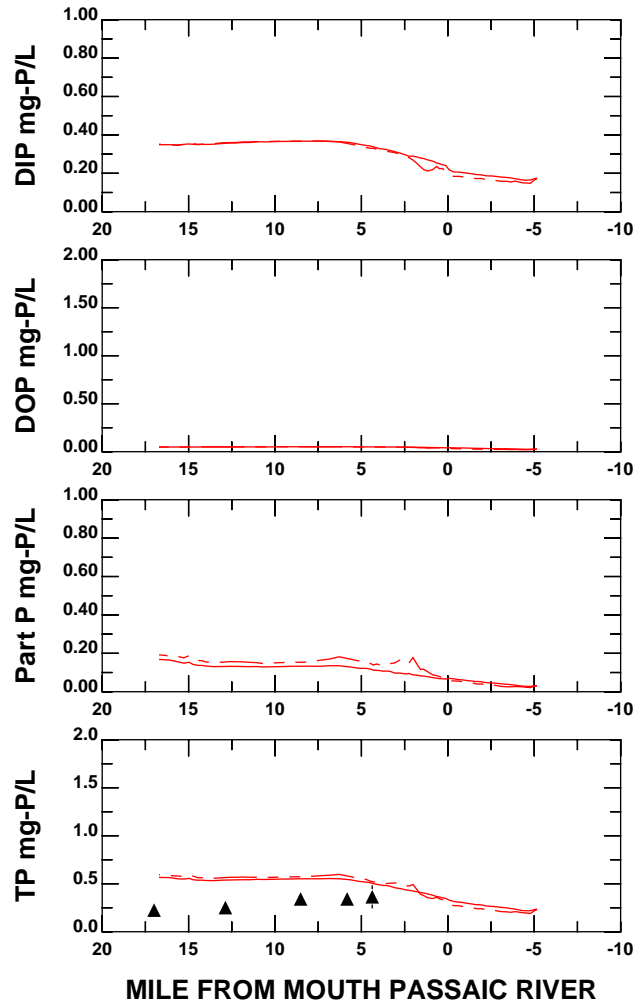
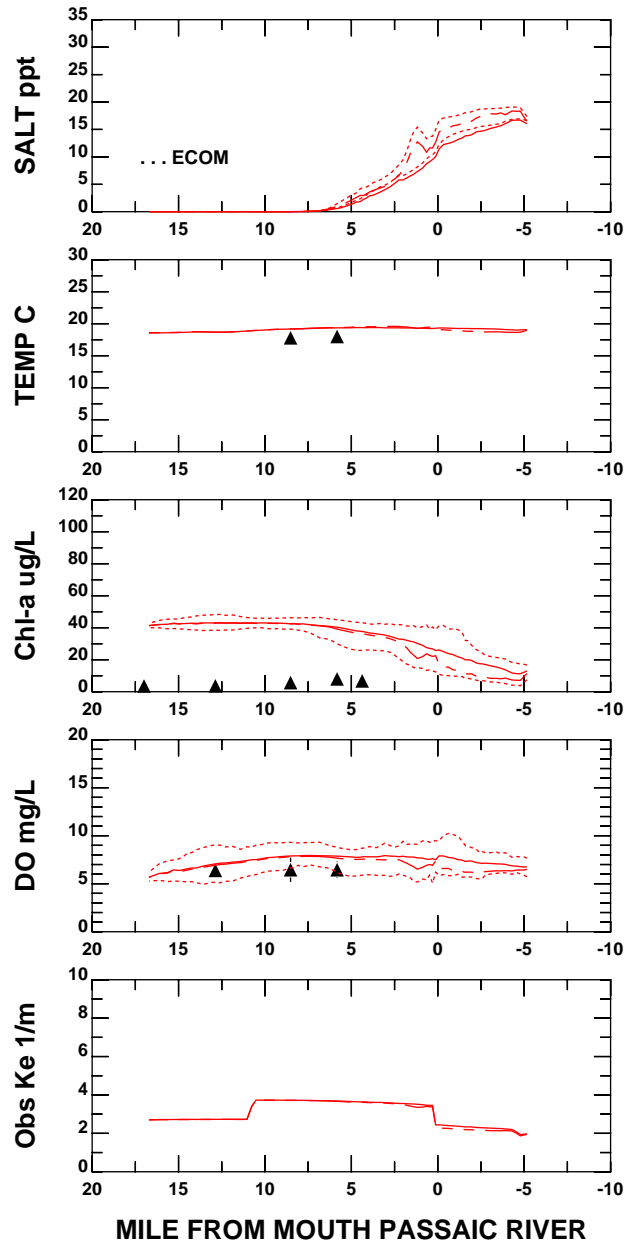
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

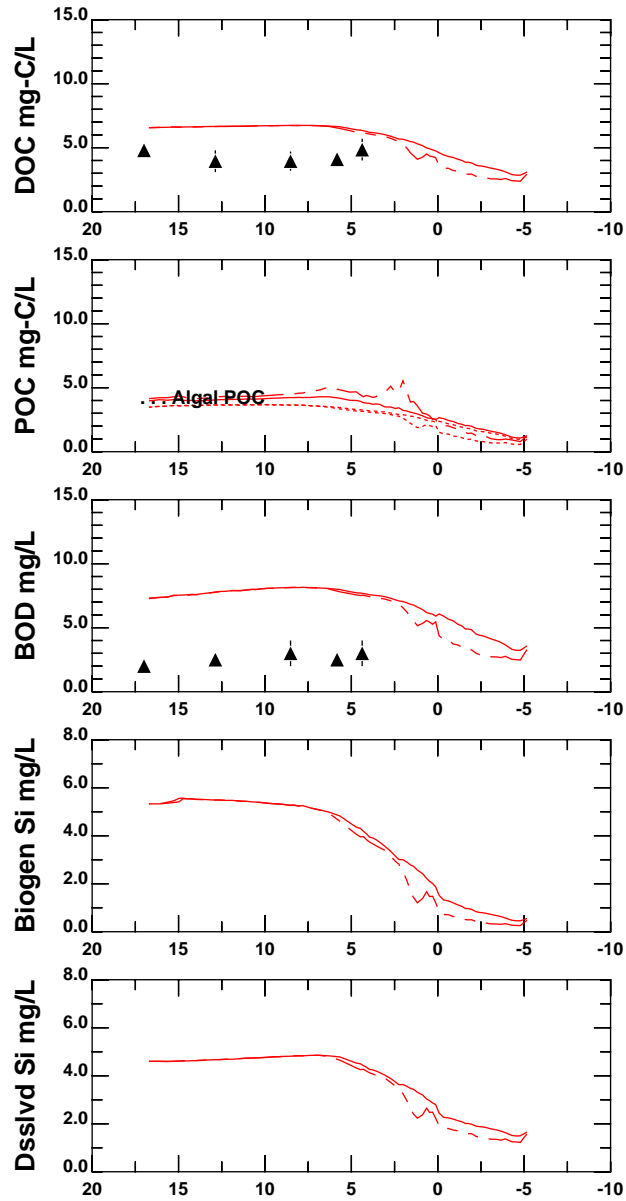


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

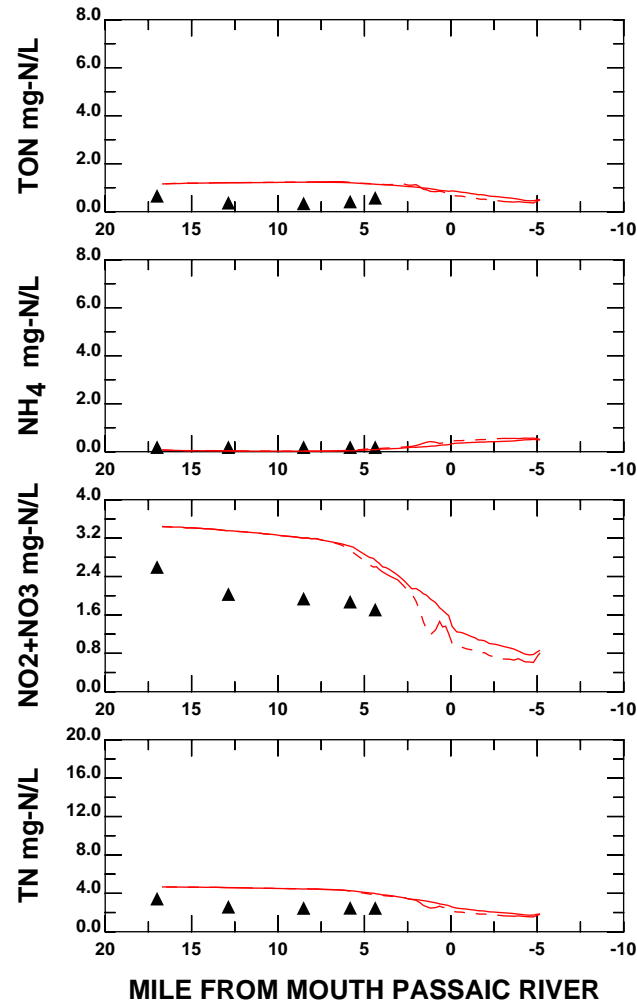




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304



DATA

NJHDG Jun 03-Jun 07,2004

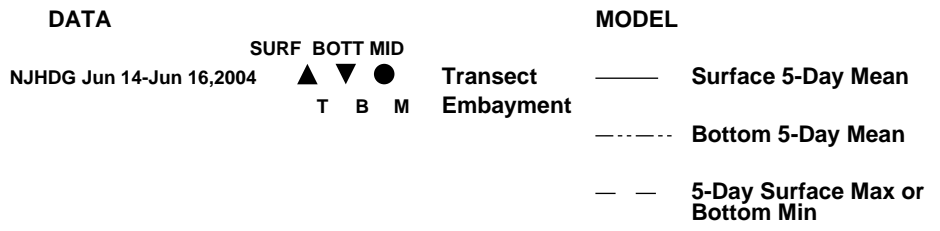
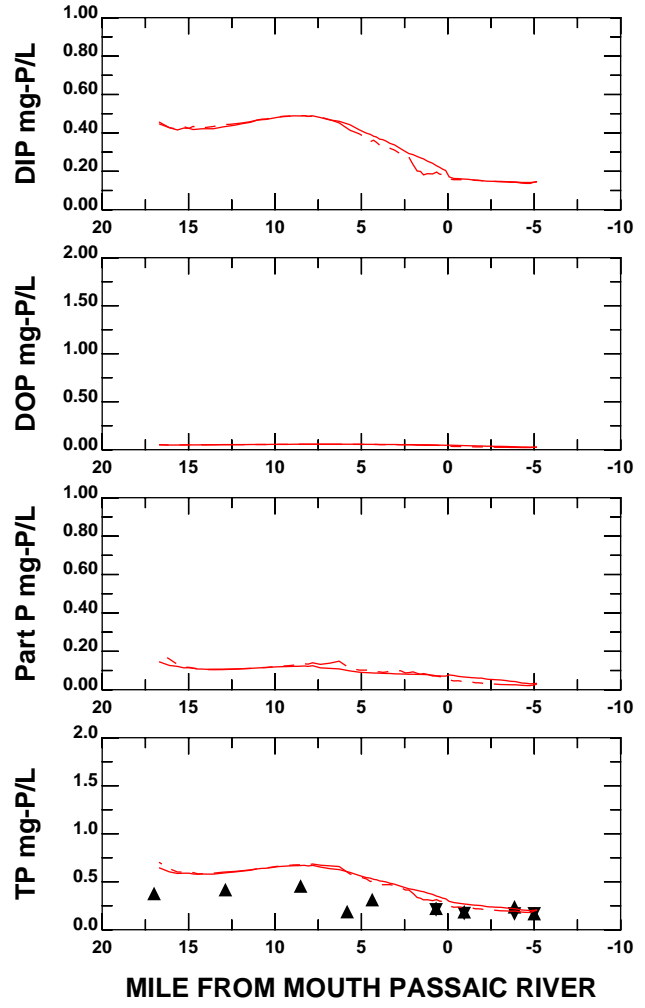
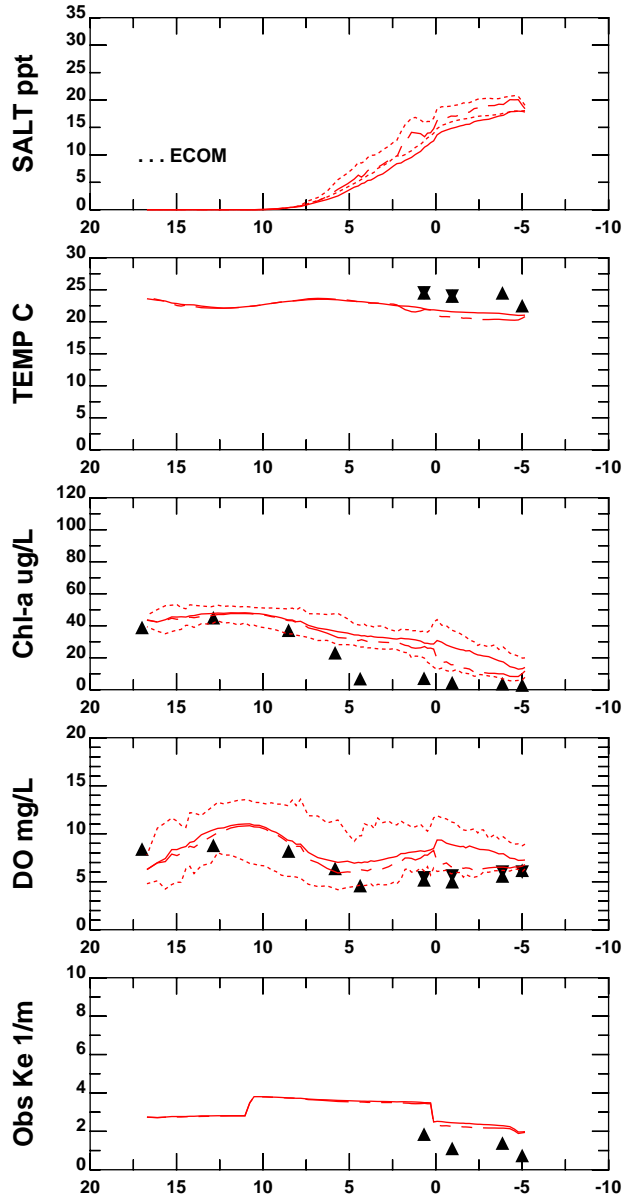
SURF BOTT MID

▲ ▼ ●  
T B M

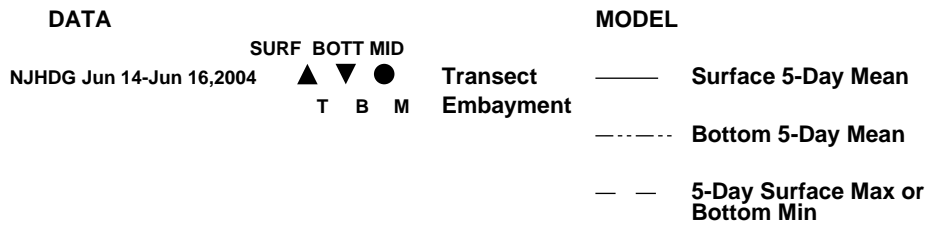
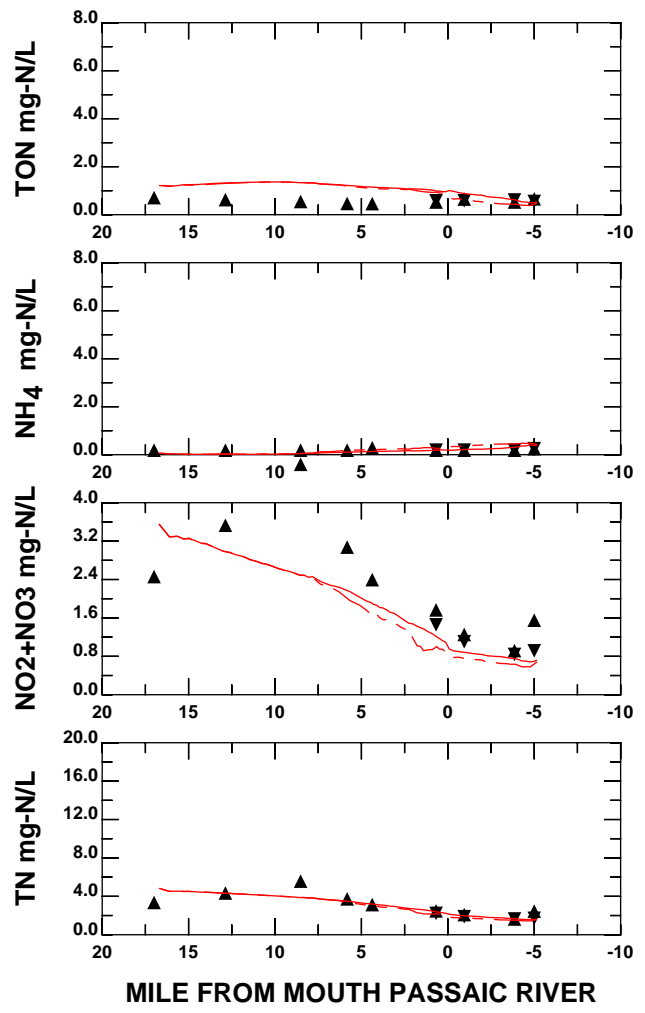
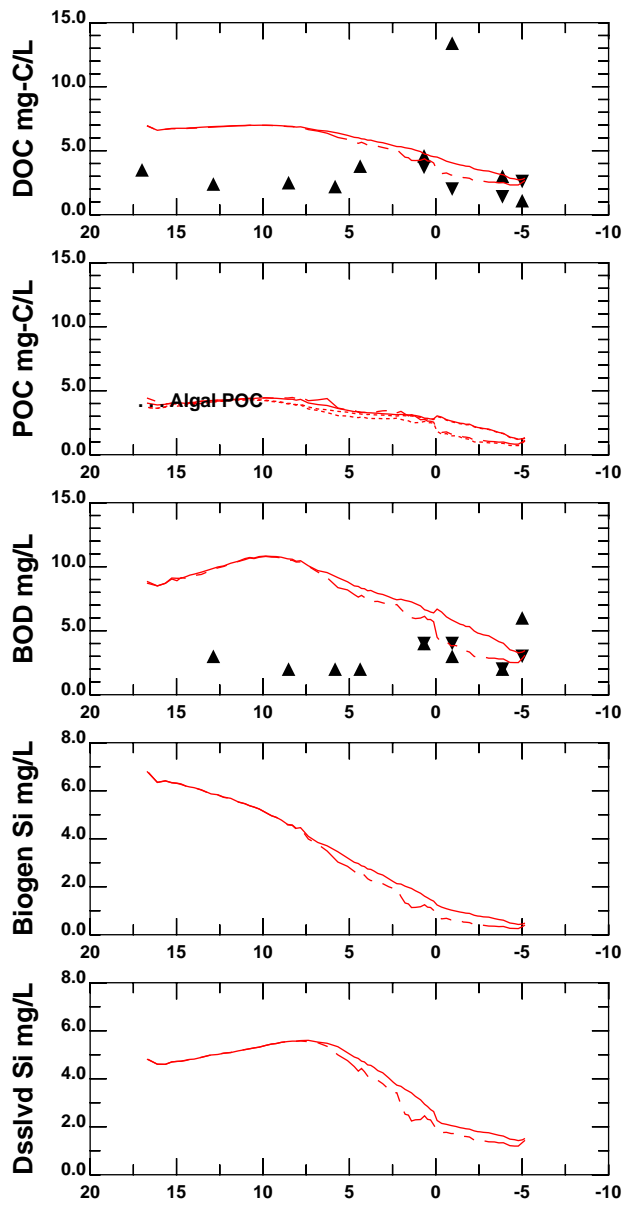
Transect  
Embayment

MODEL

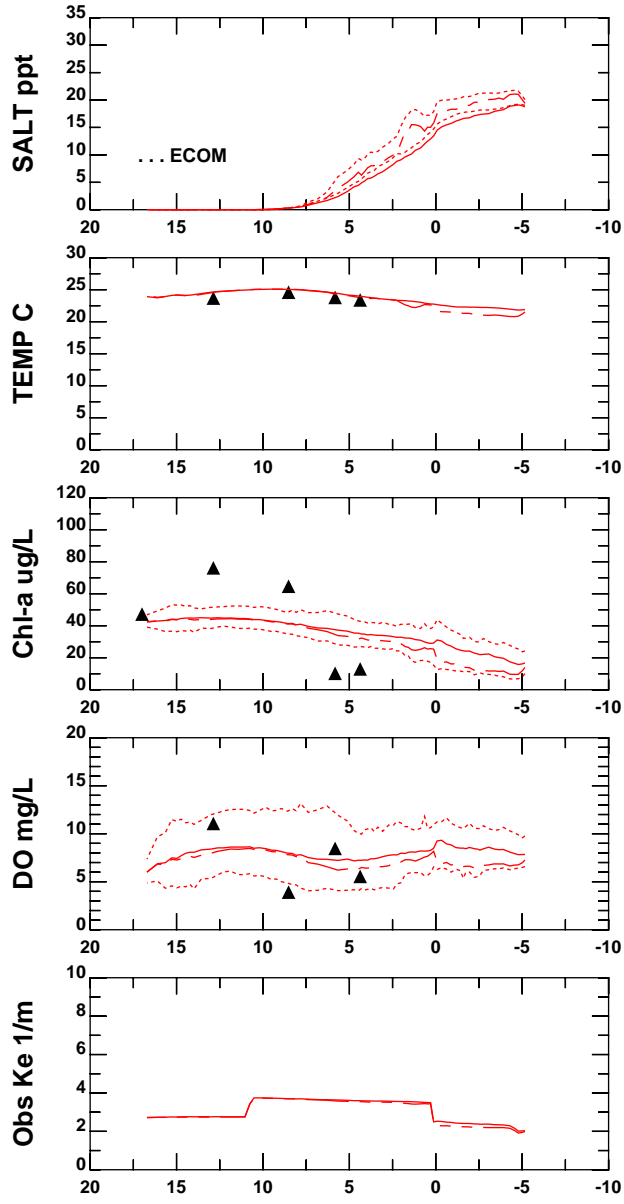
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

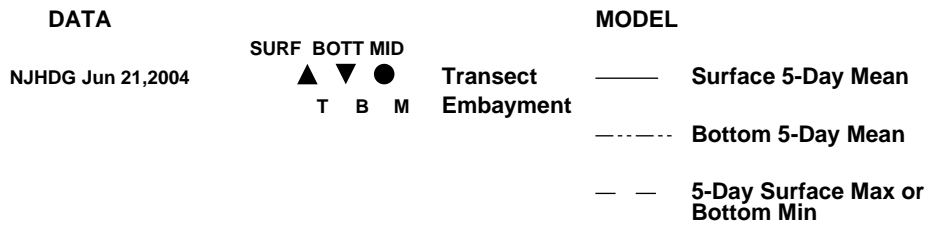
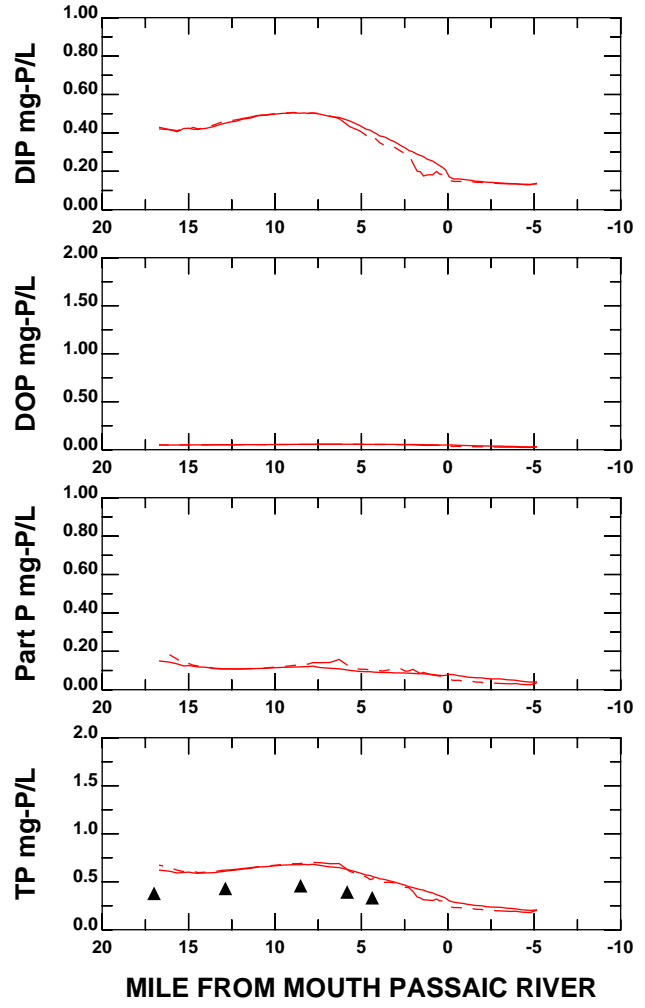


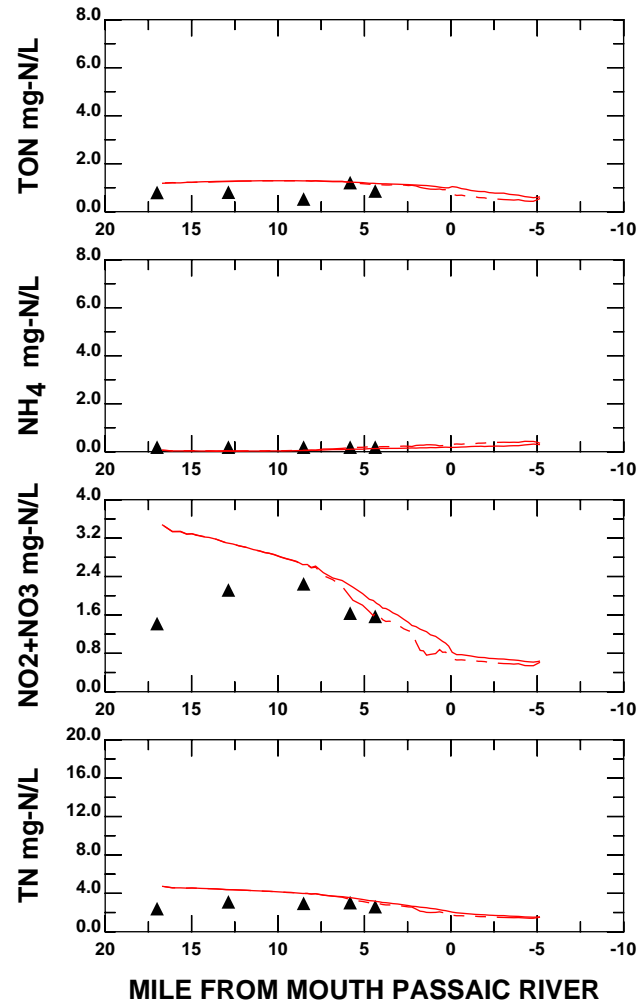
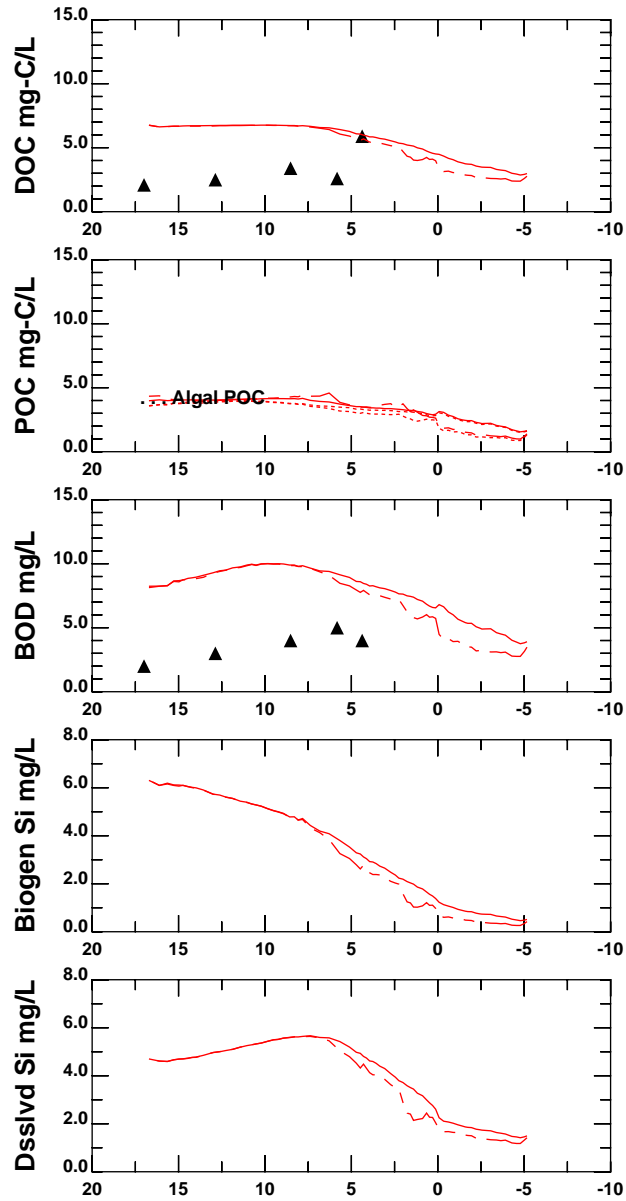
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



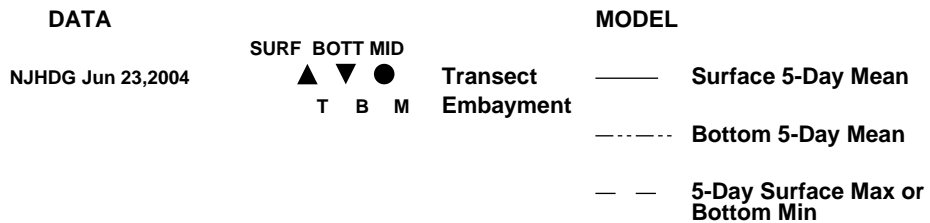
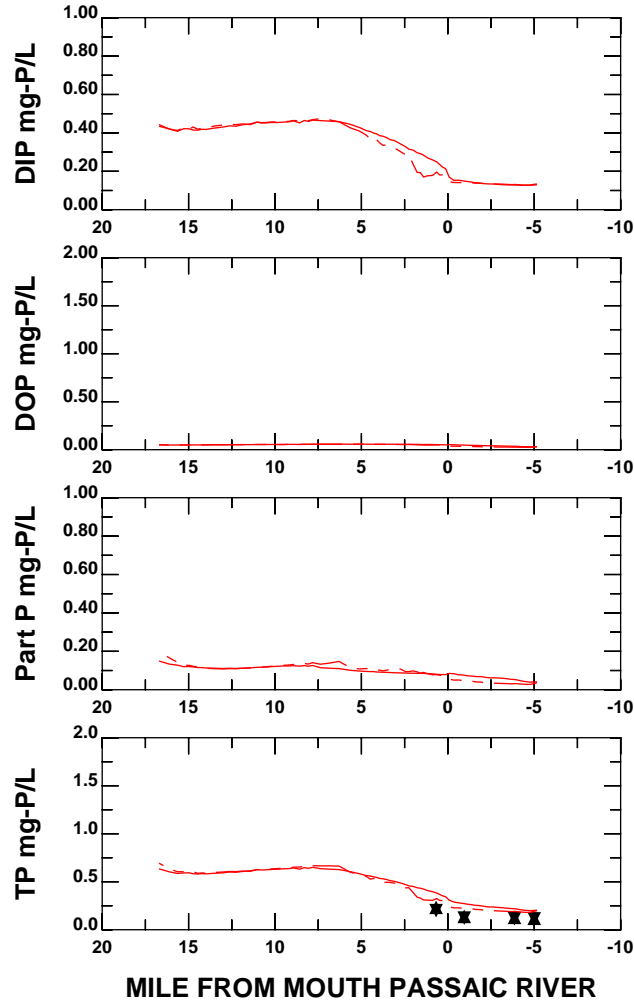
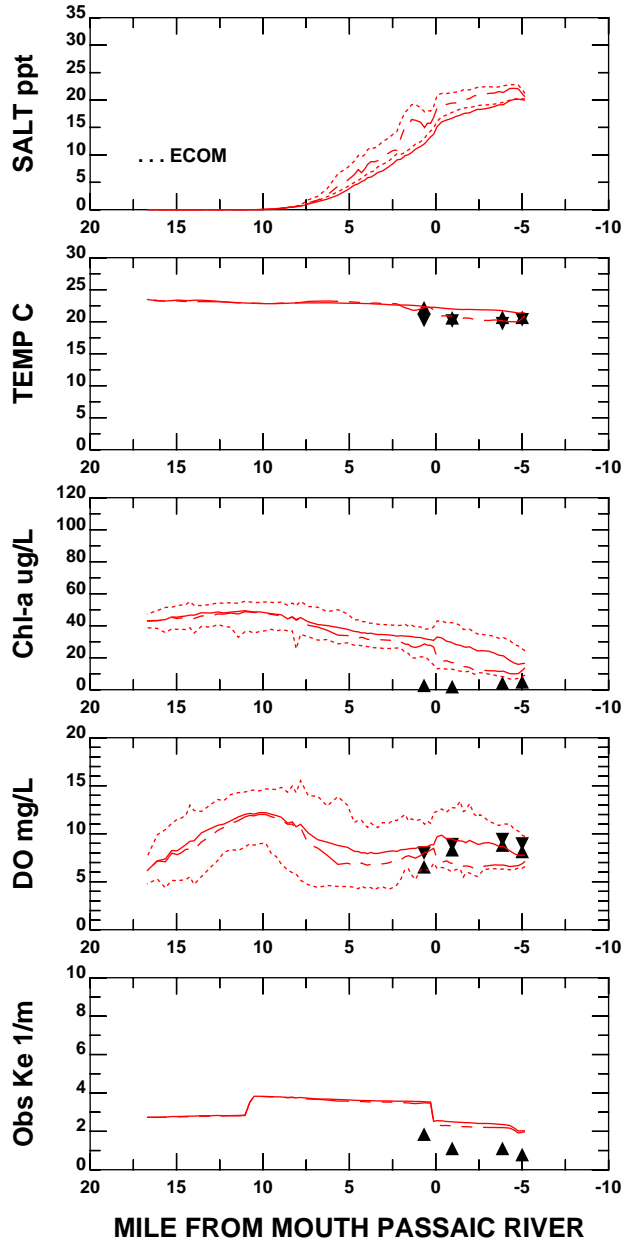


DATA  
NJHDG Jun 21,2004

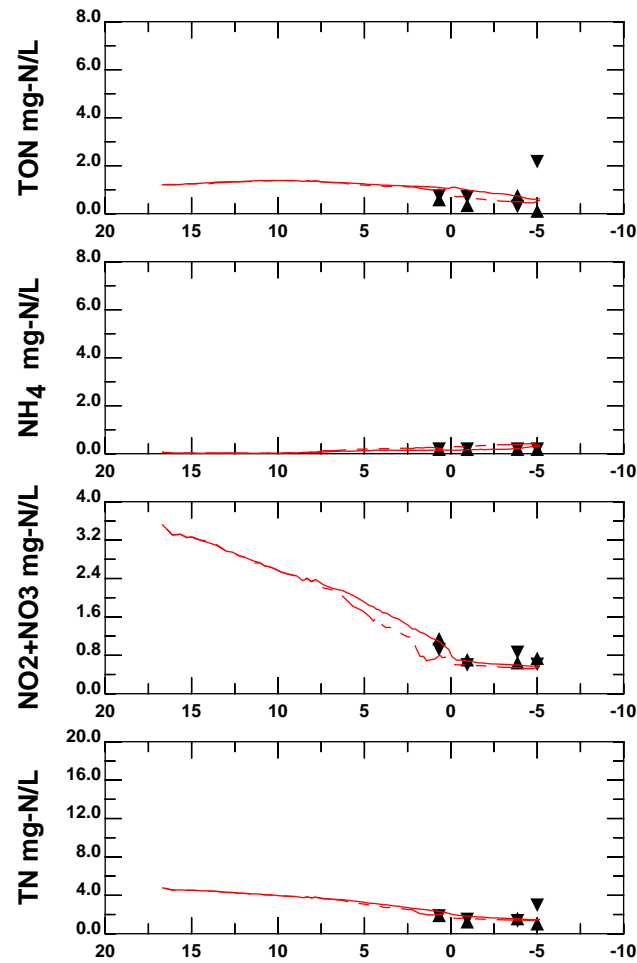
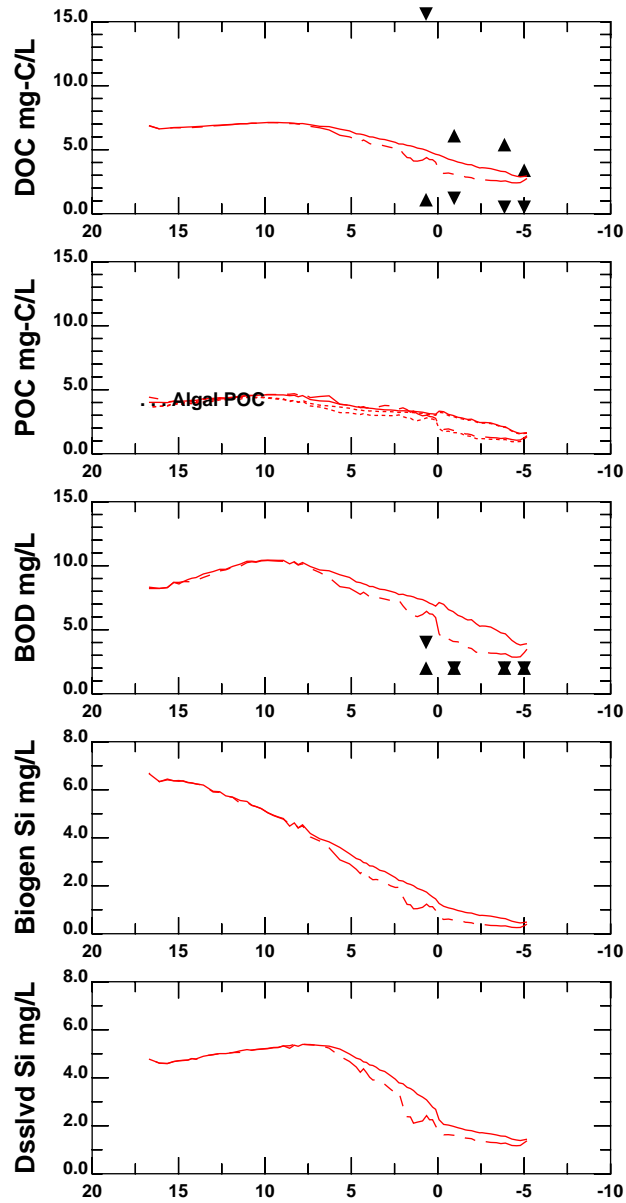
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

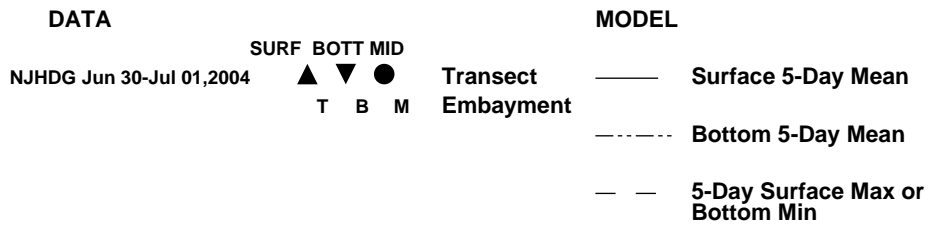
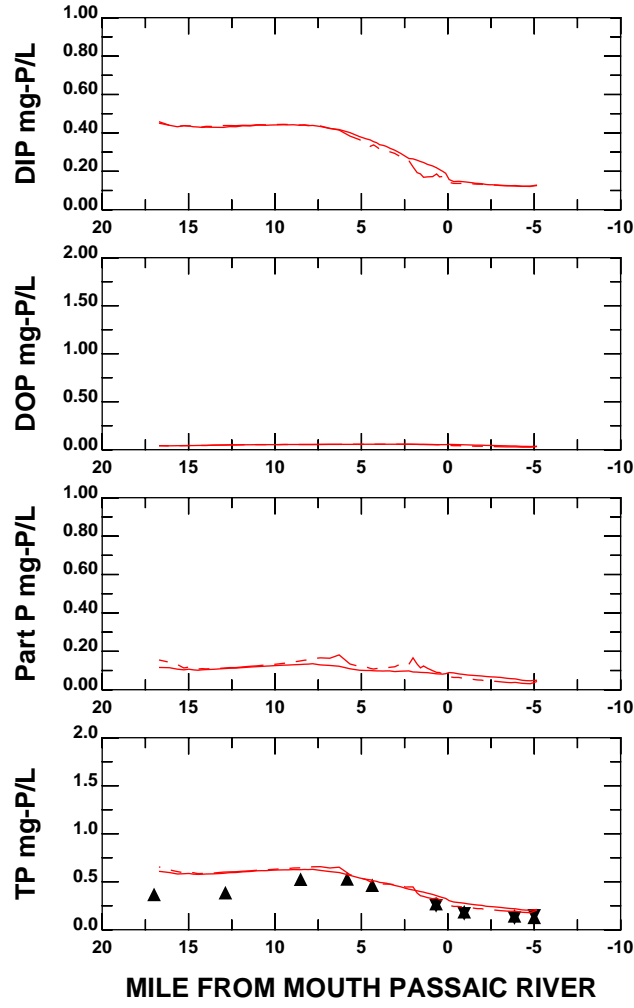
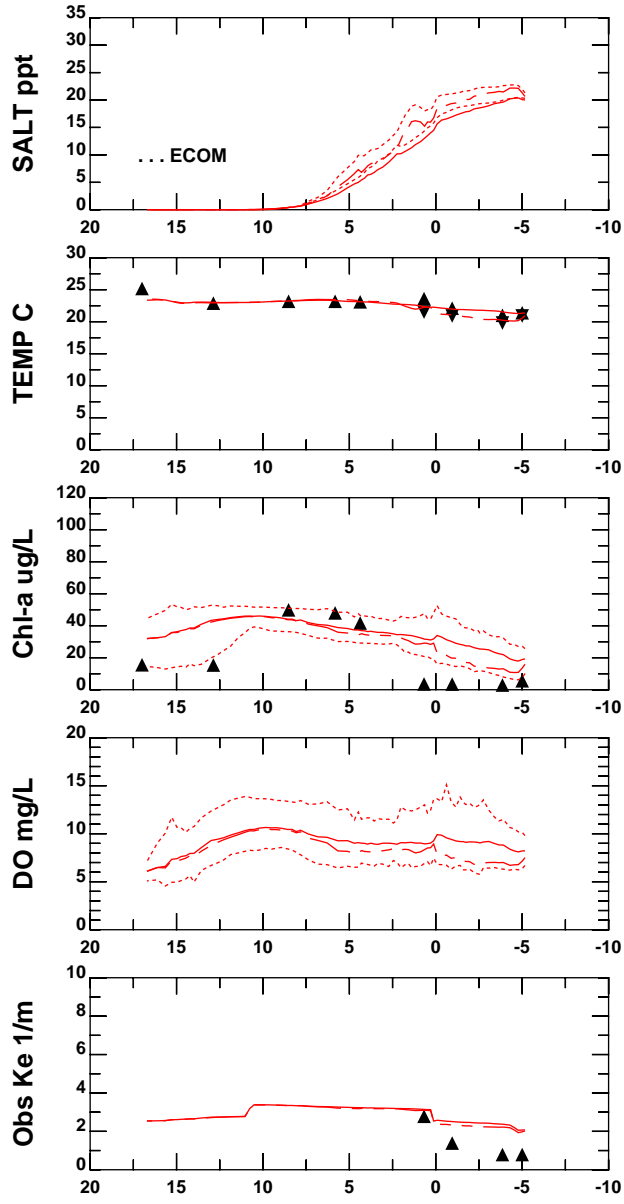


DATA  
NJHDG Jun 23,2004

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

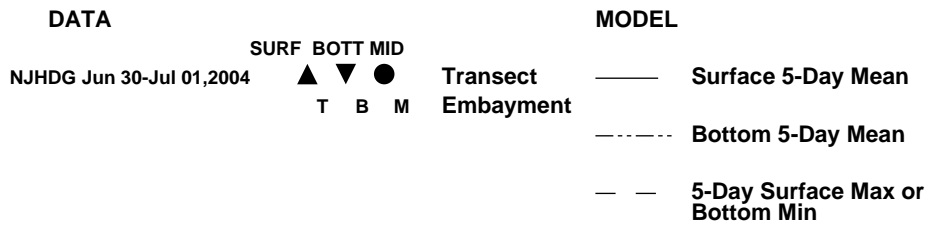
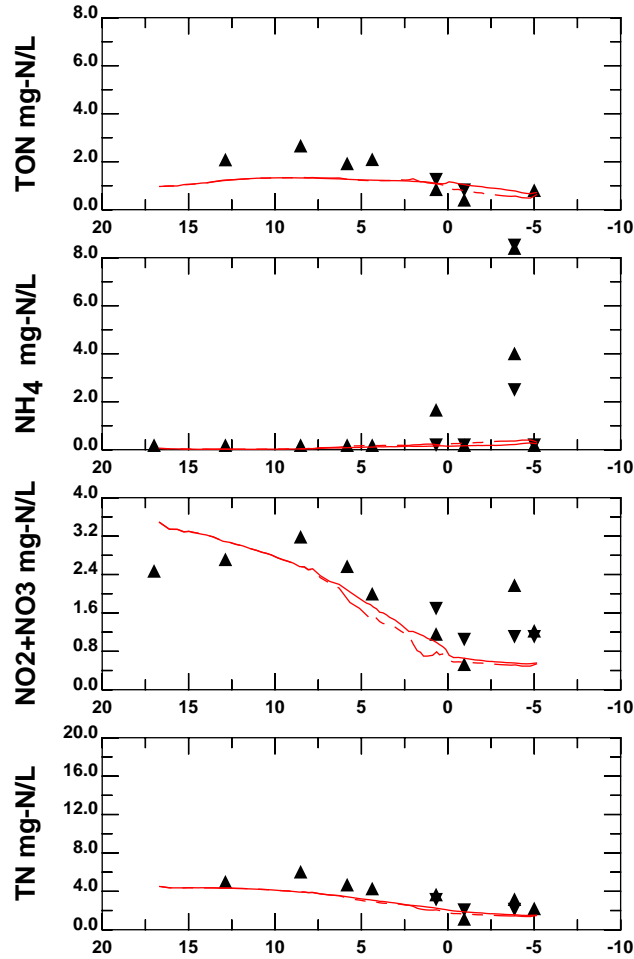
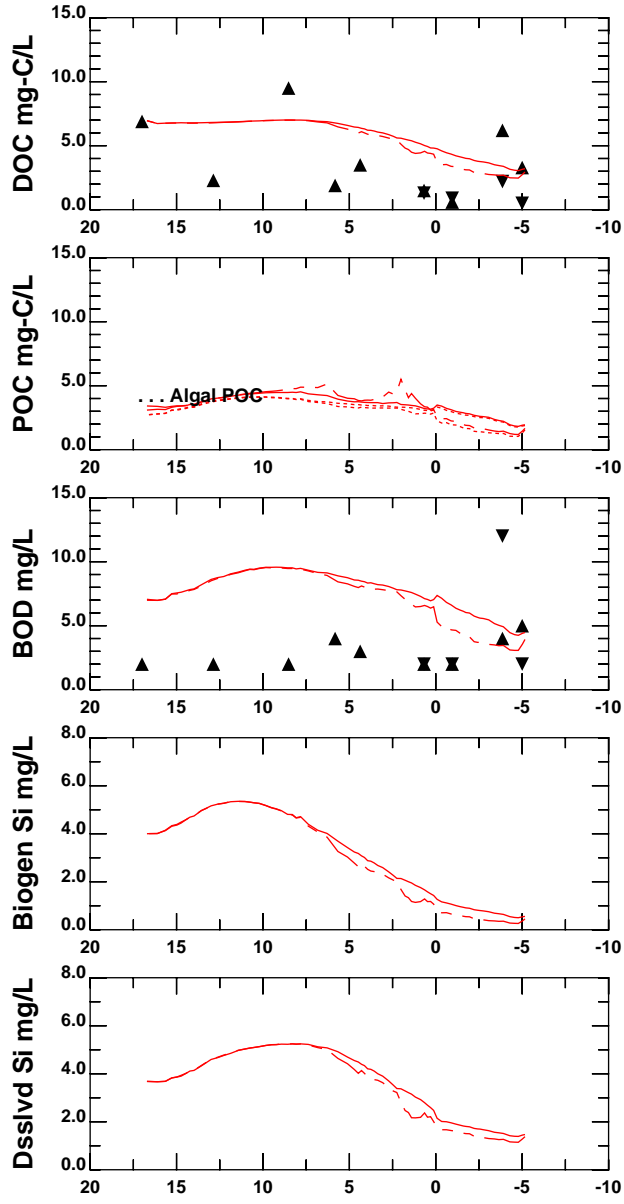
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

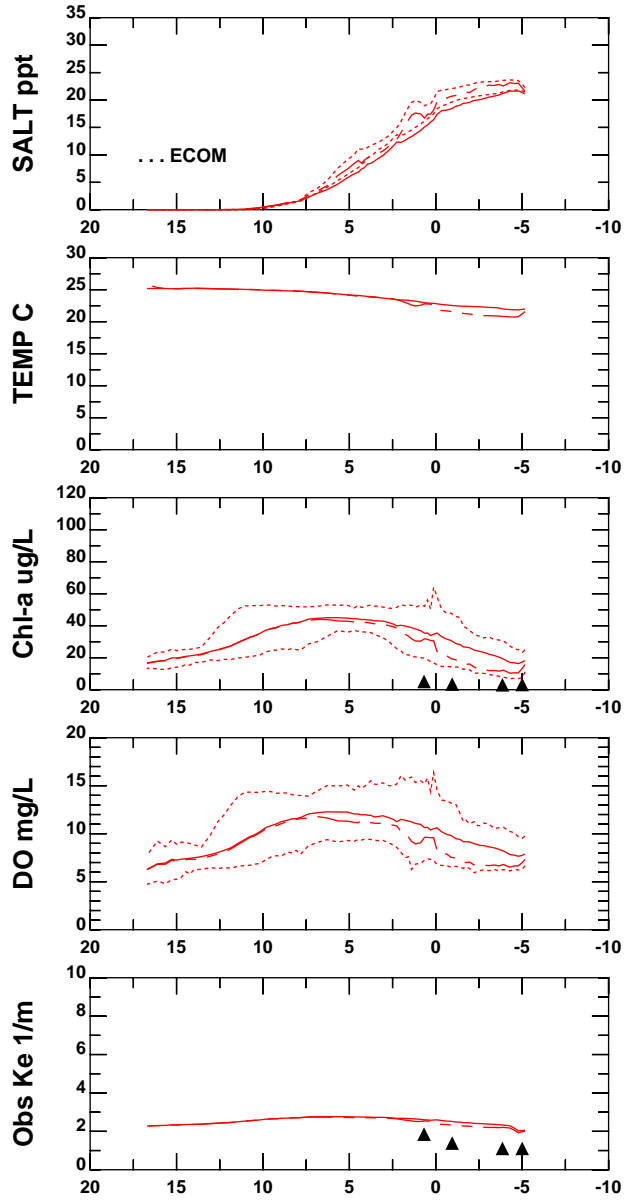


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



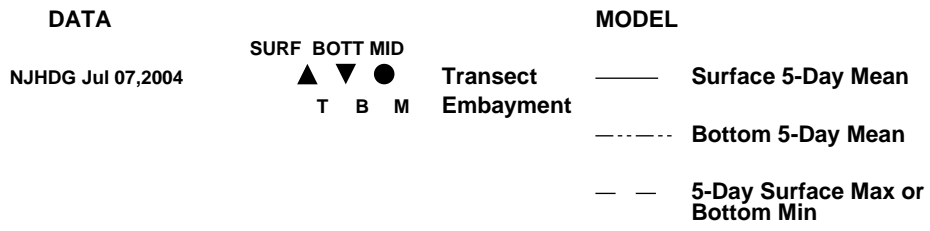
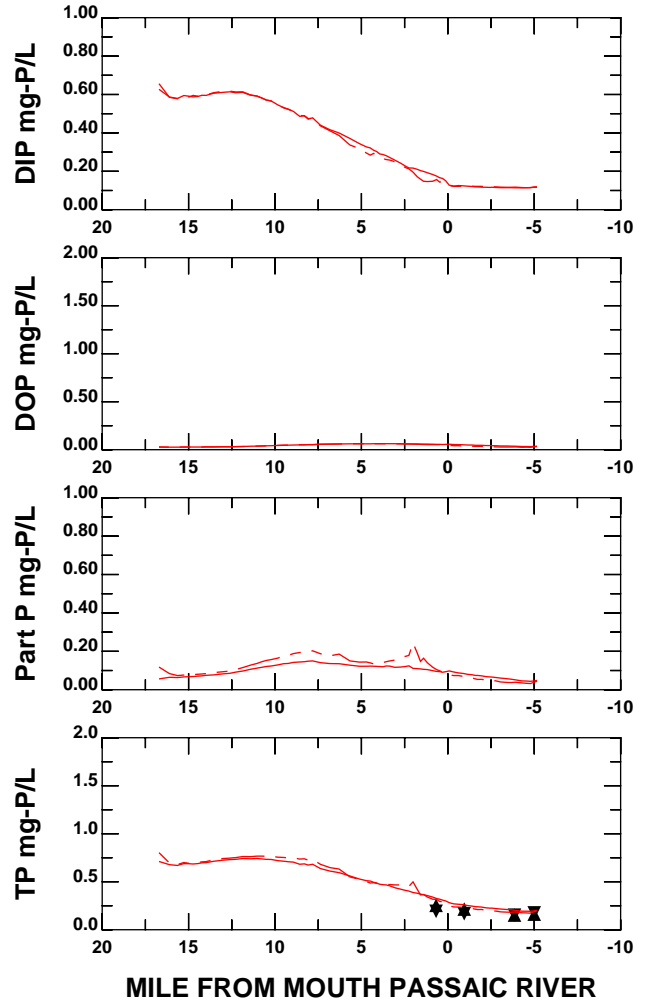


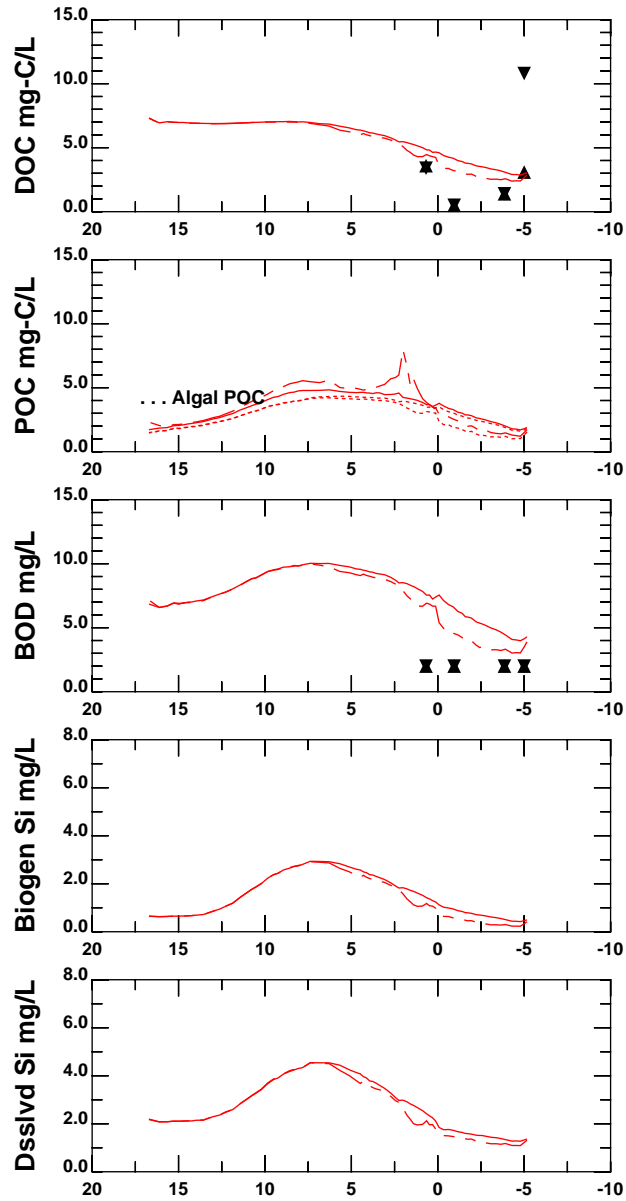
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

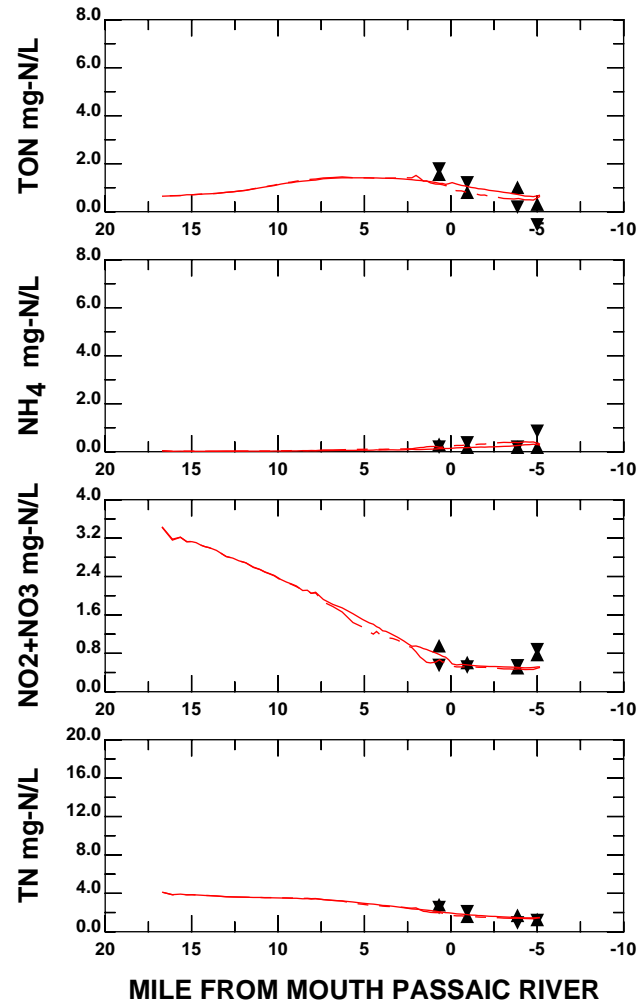




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jul 07,2004

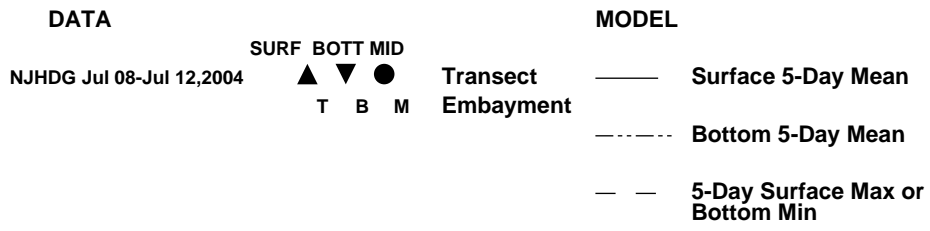
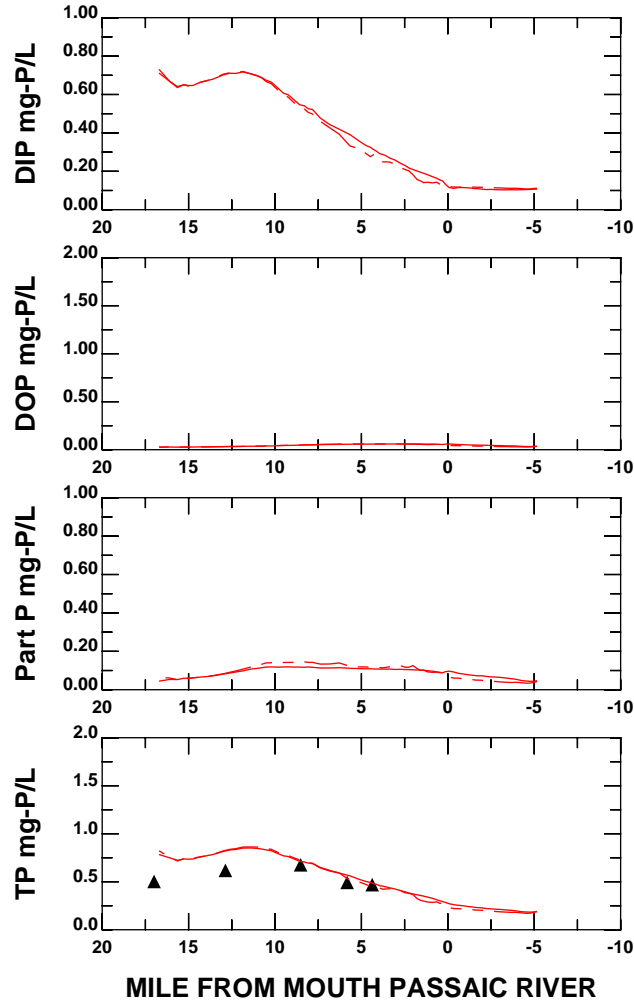
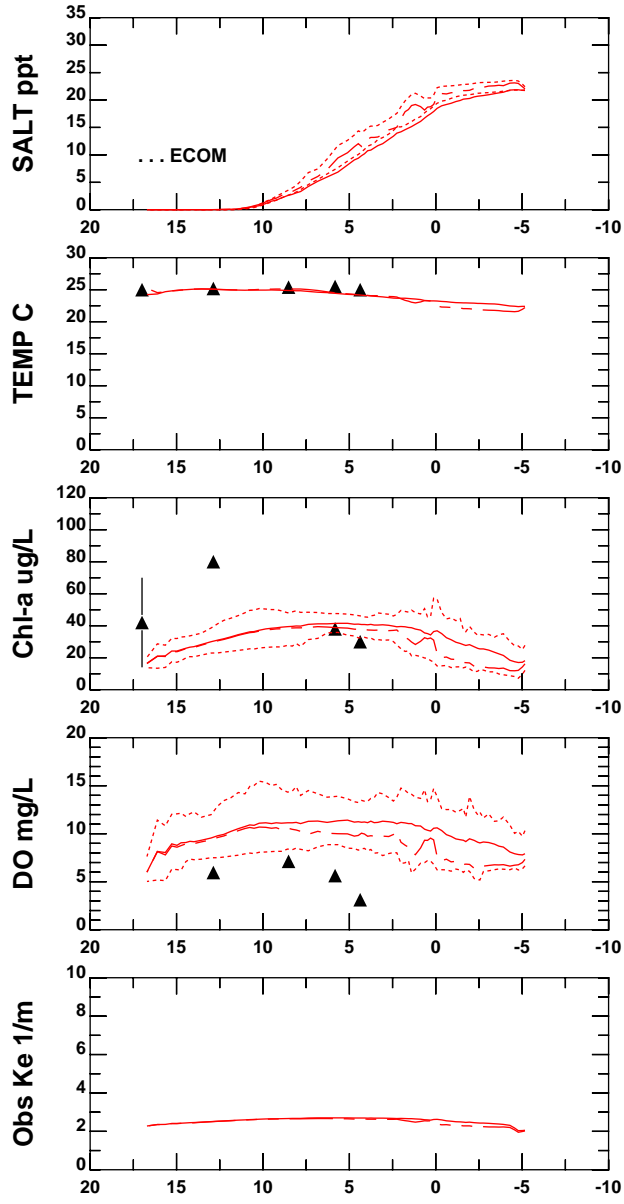
SURF BOTT MID

▲ ▼ ●  
T B M

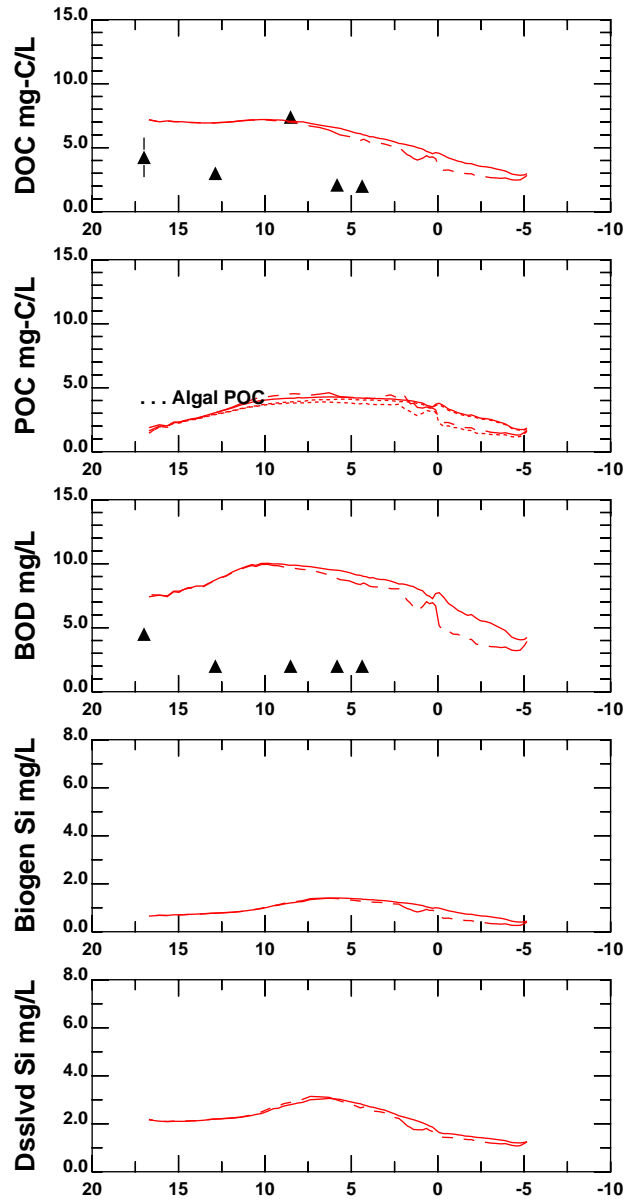
Transect  
Embayment

#### MODEL

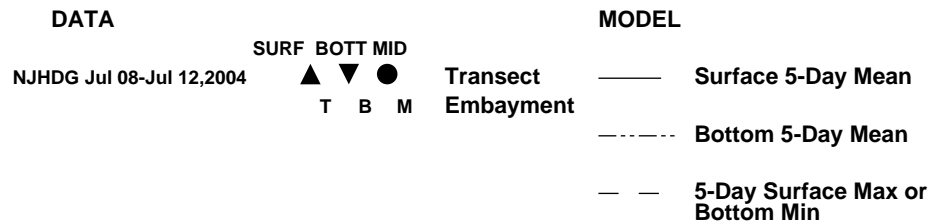
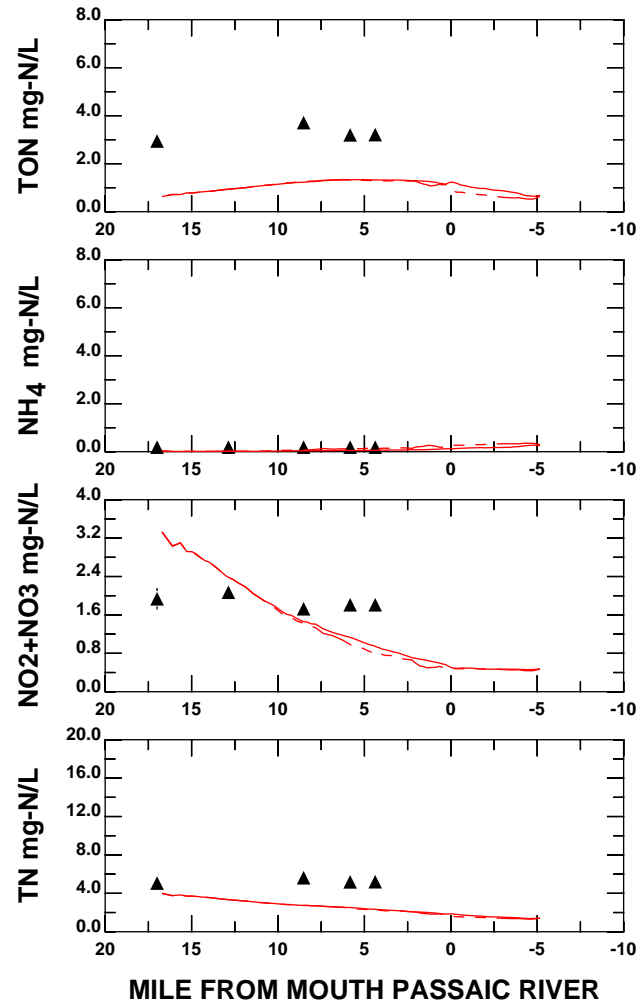
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

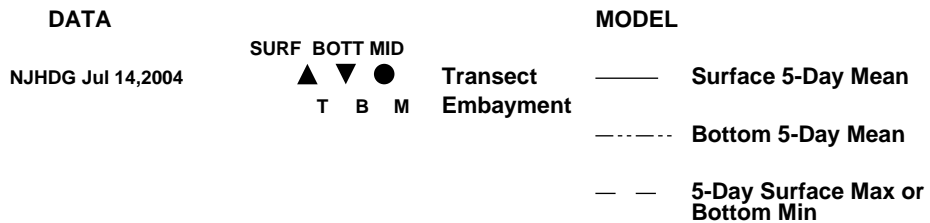
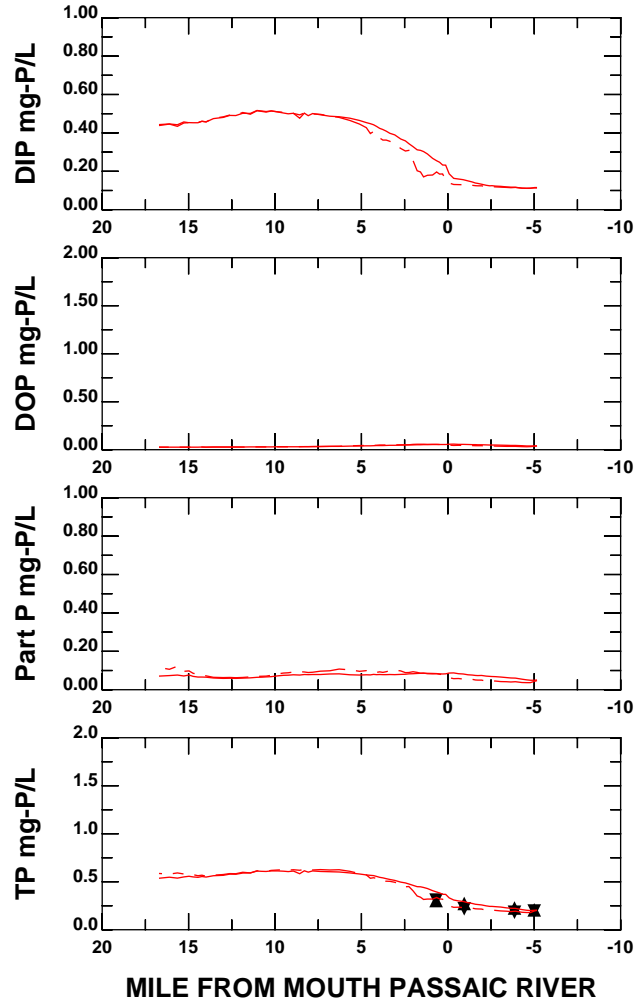
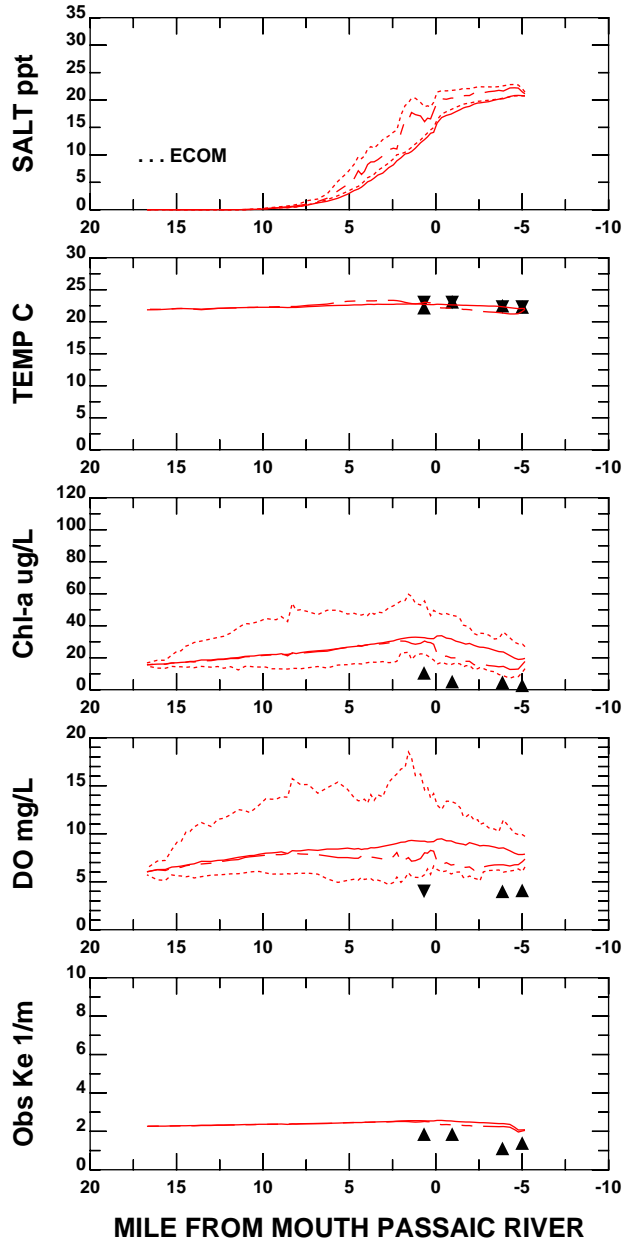


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

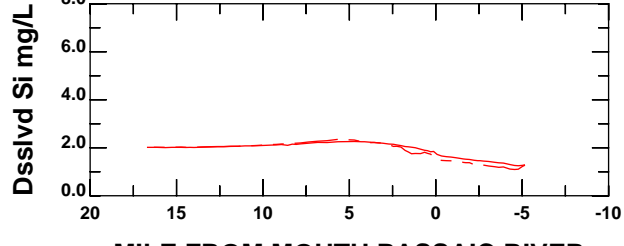
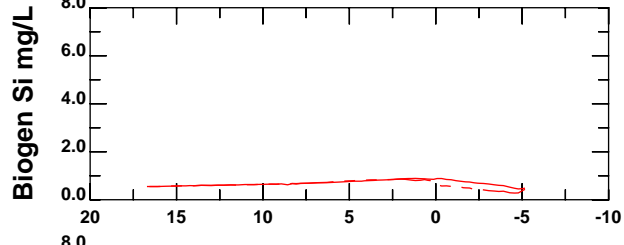
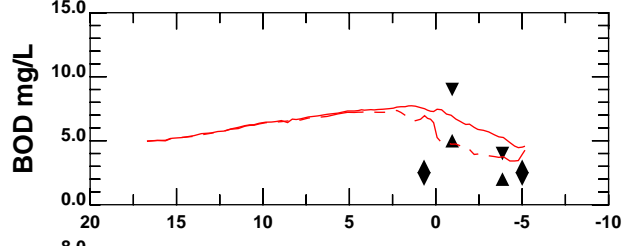
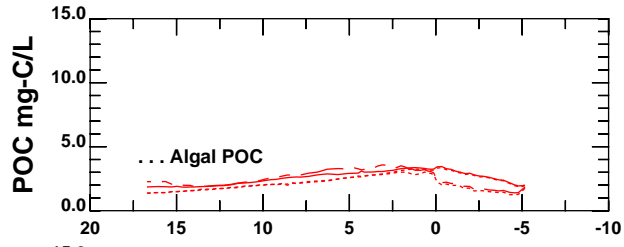
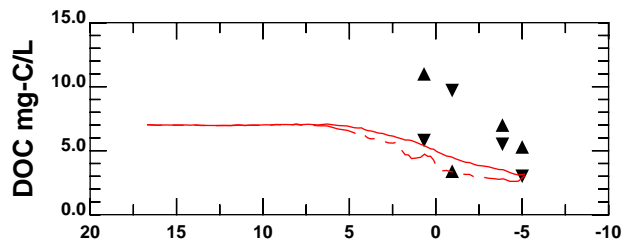


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

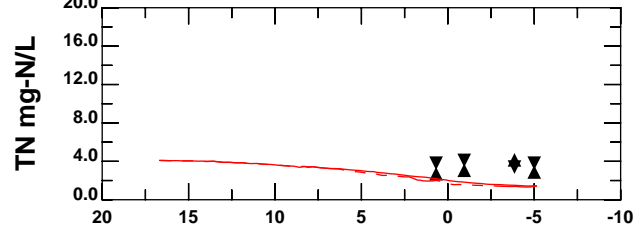
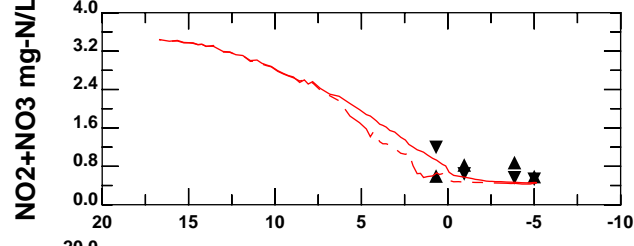
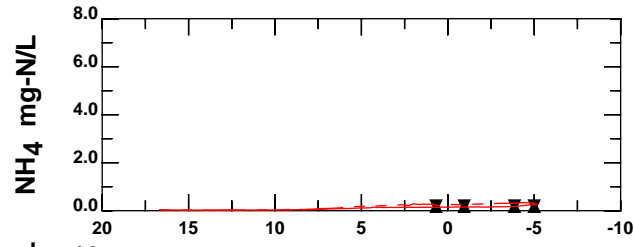
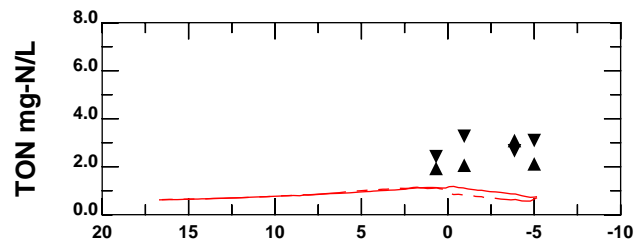




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

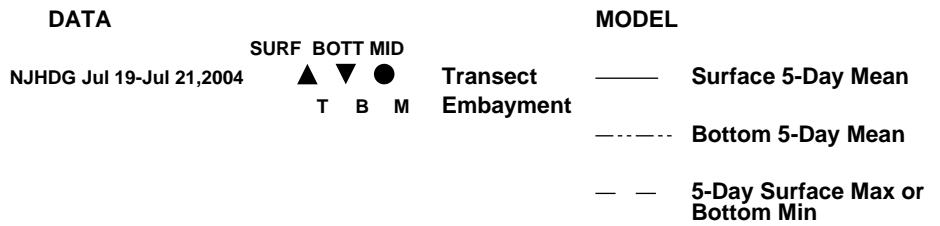
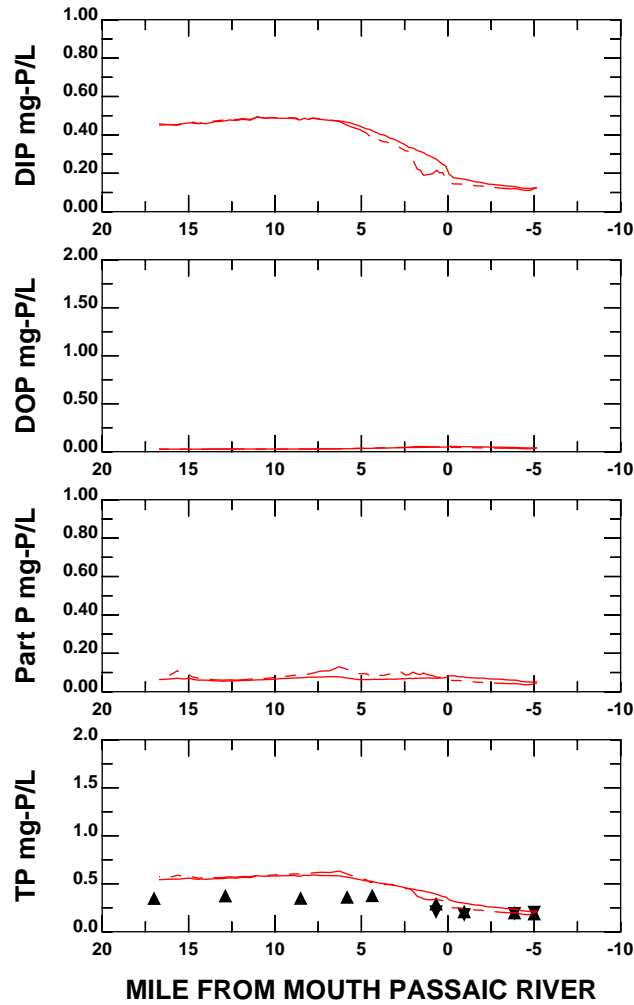
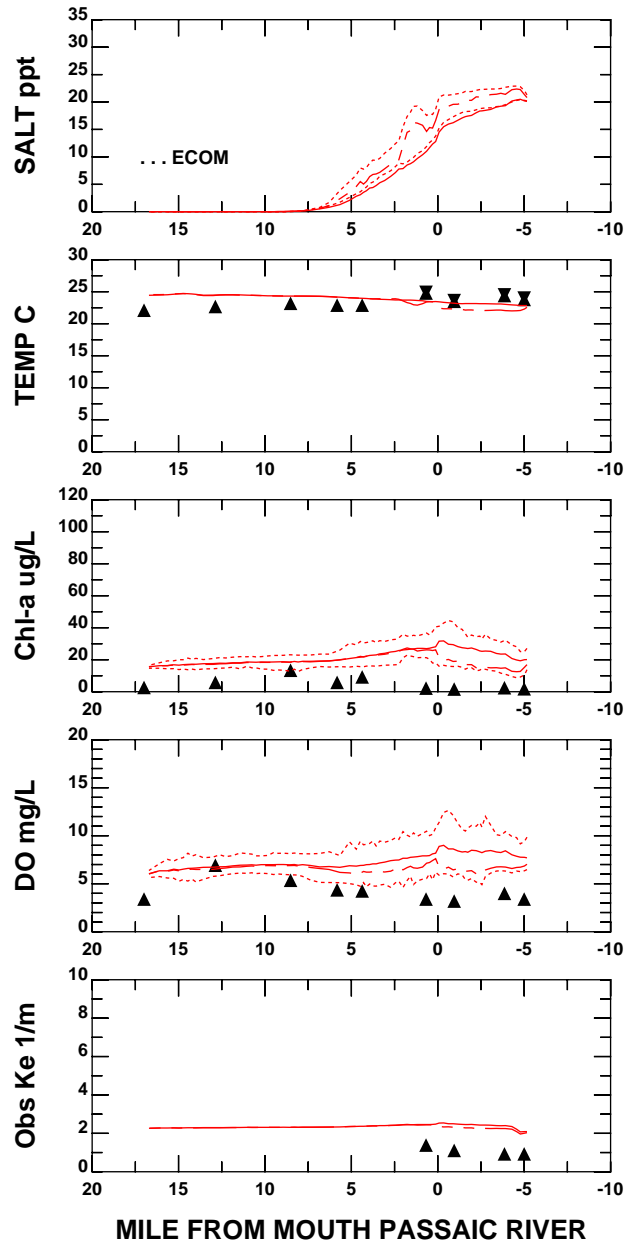
DATA  
NJHDG Jul 14, 2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

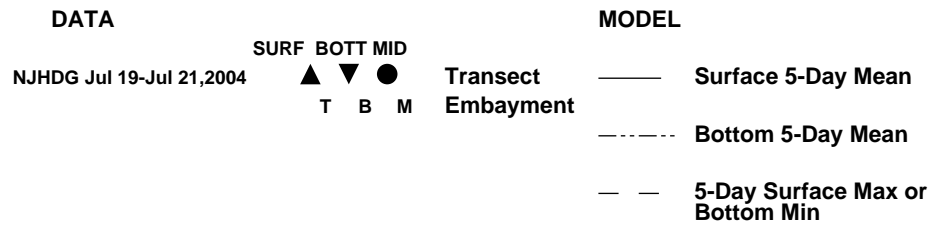
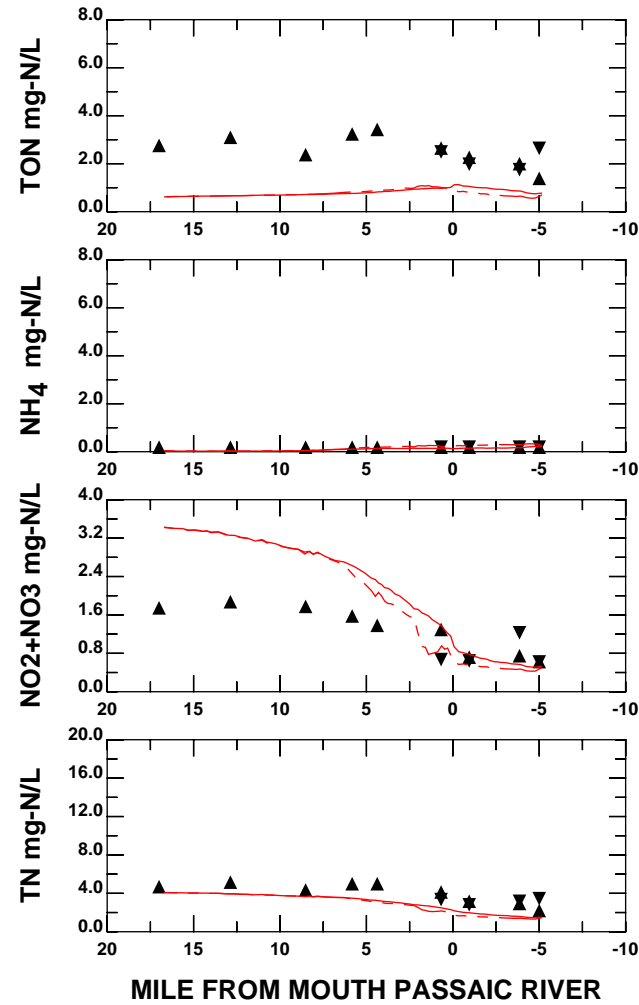
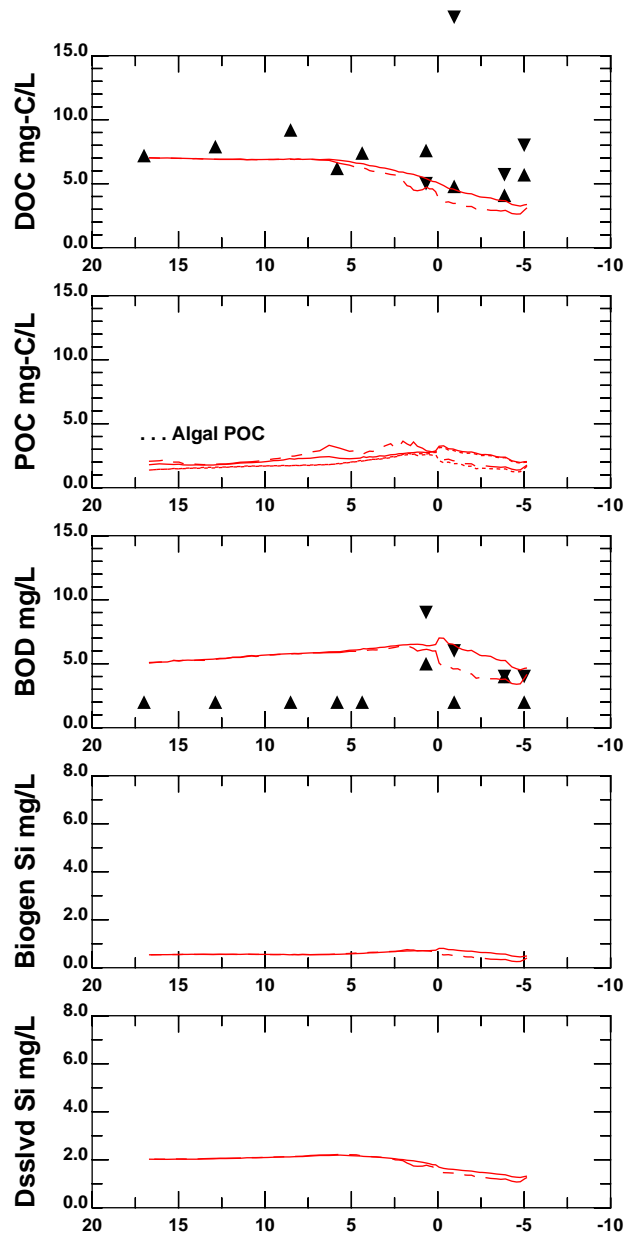
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

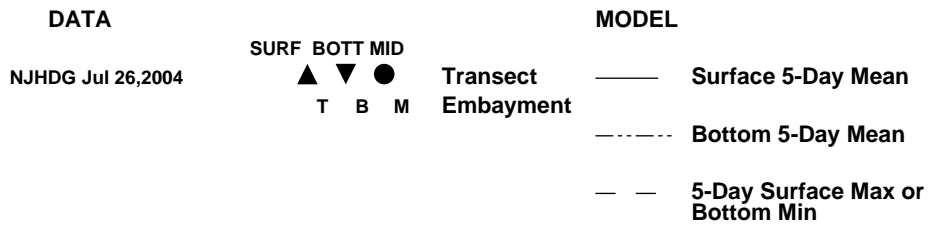
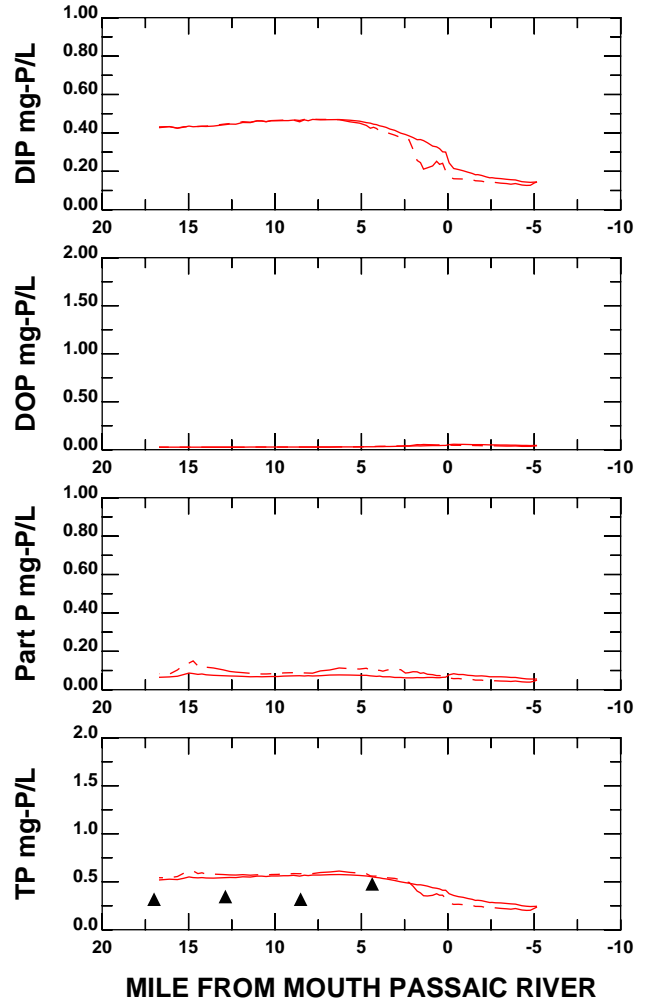
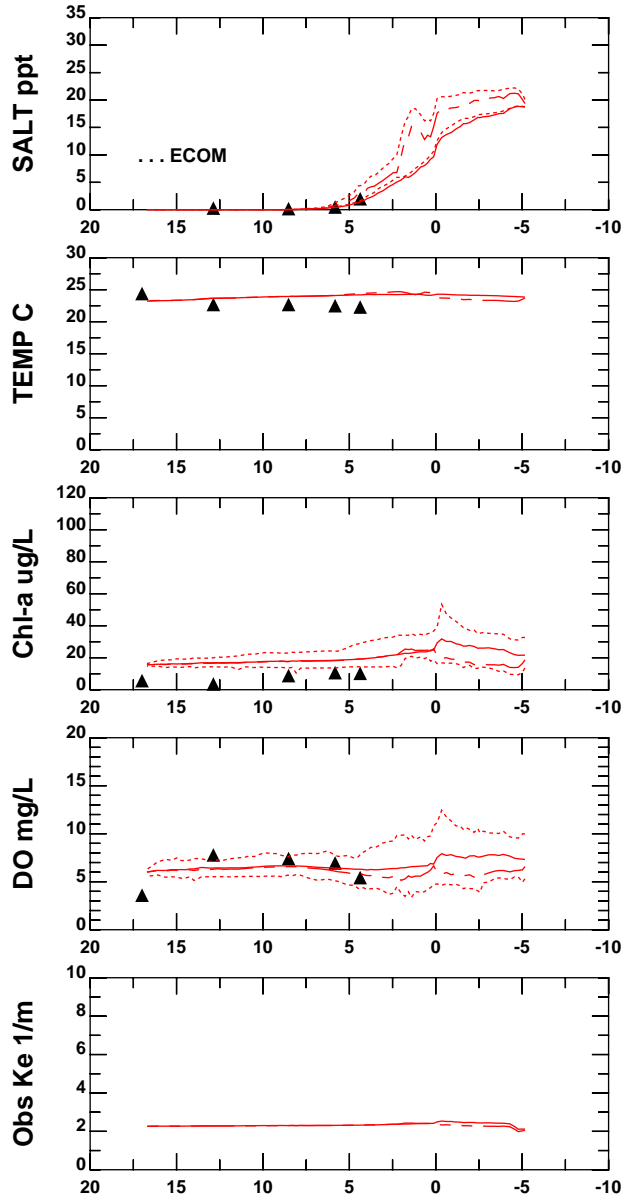


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

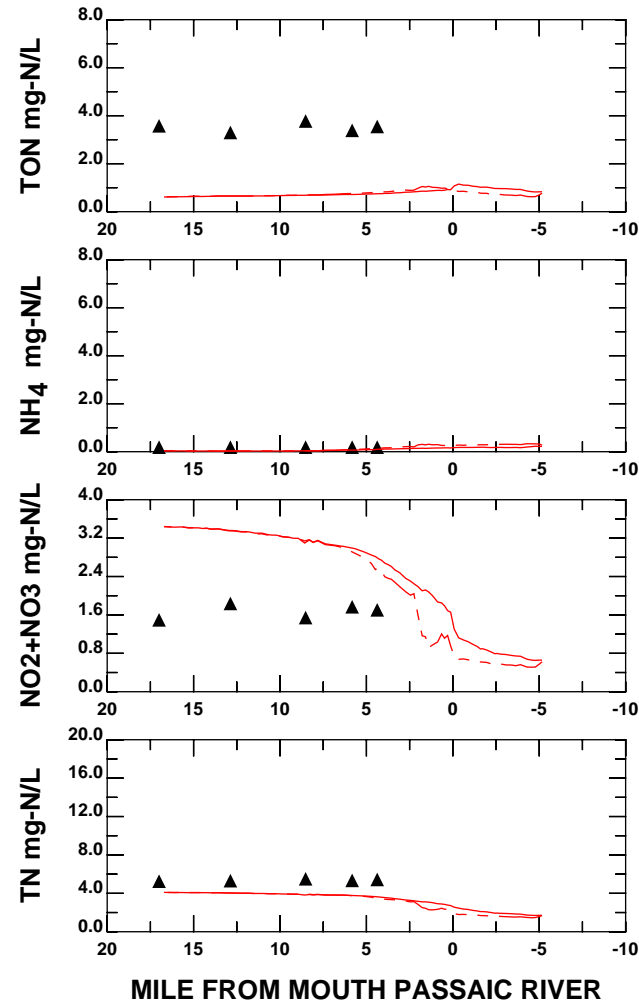
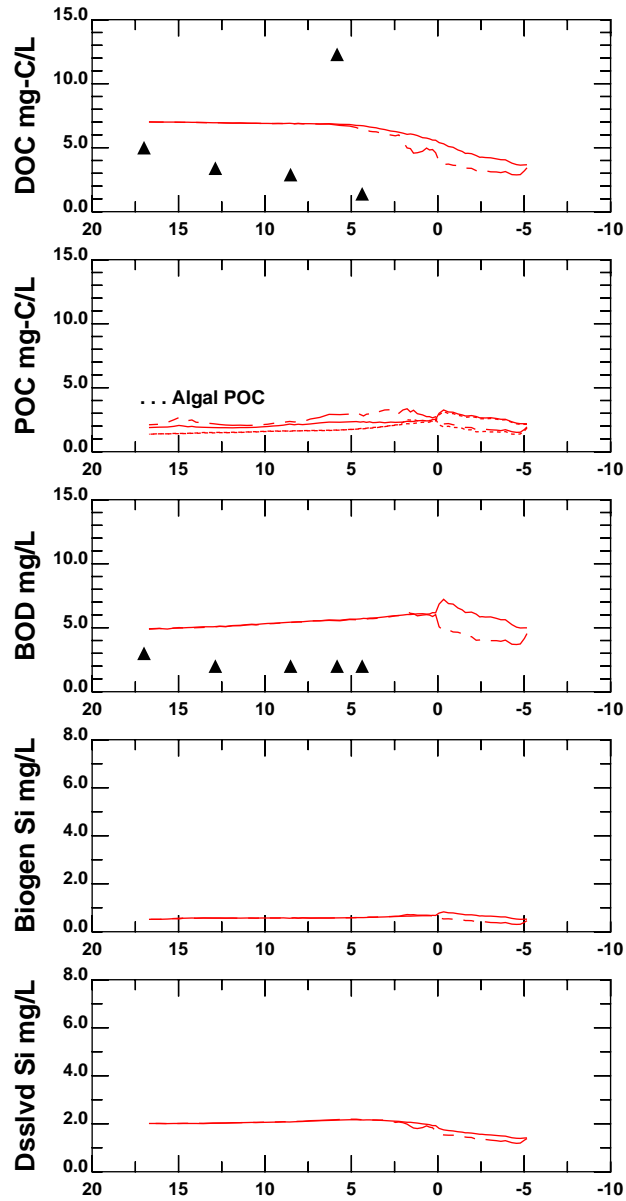




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

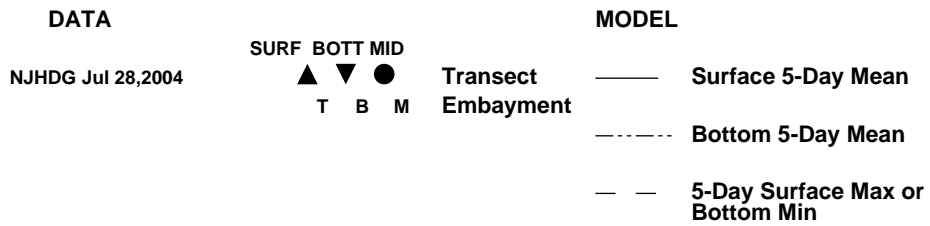
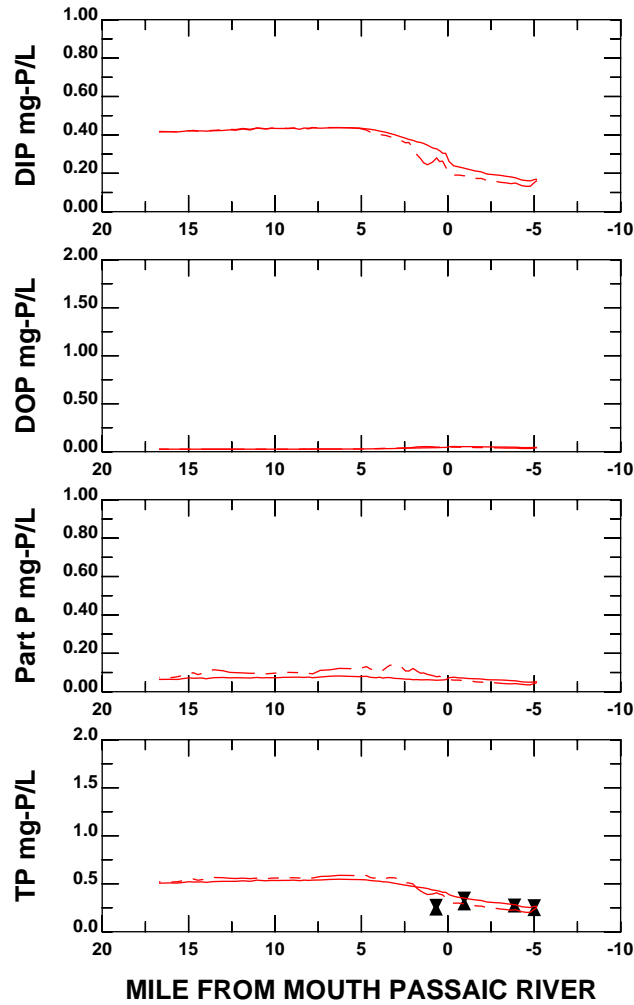
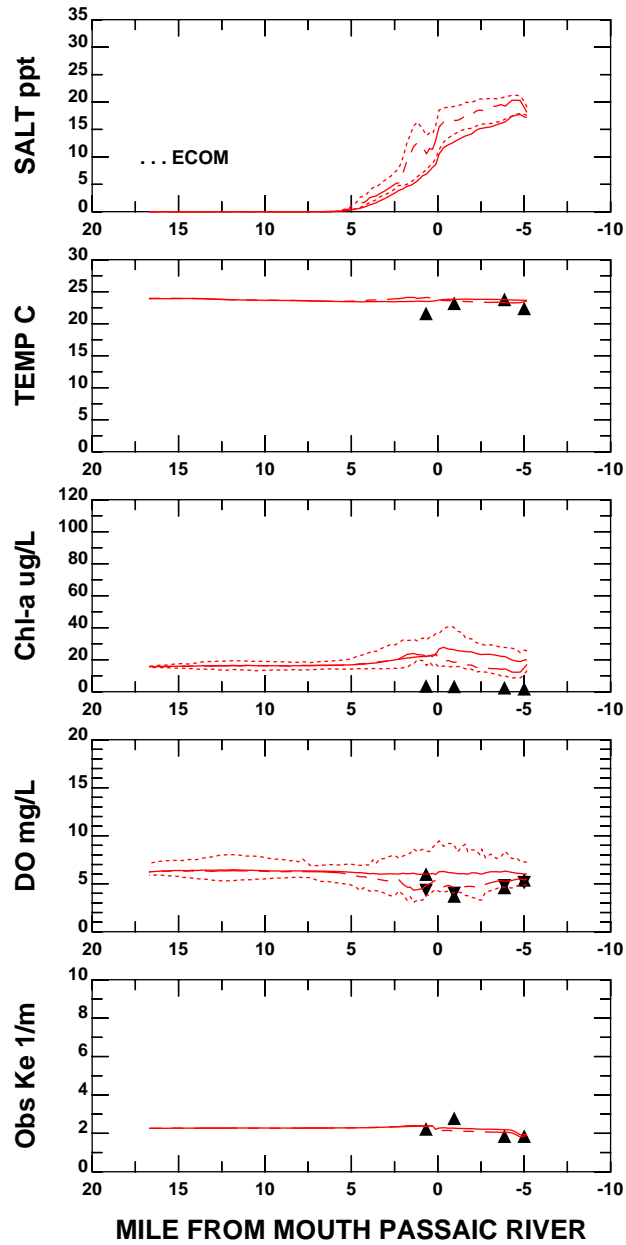


DATA  
NJHDG Jul 26, 2004

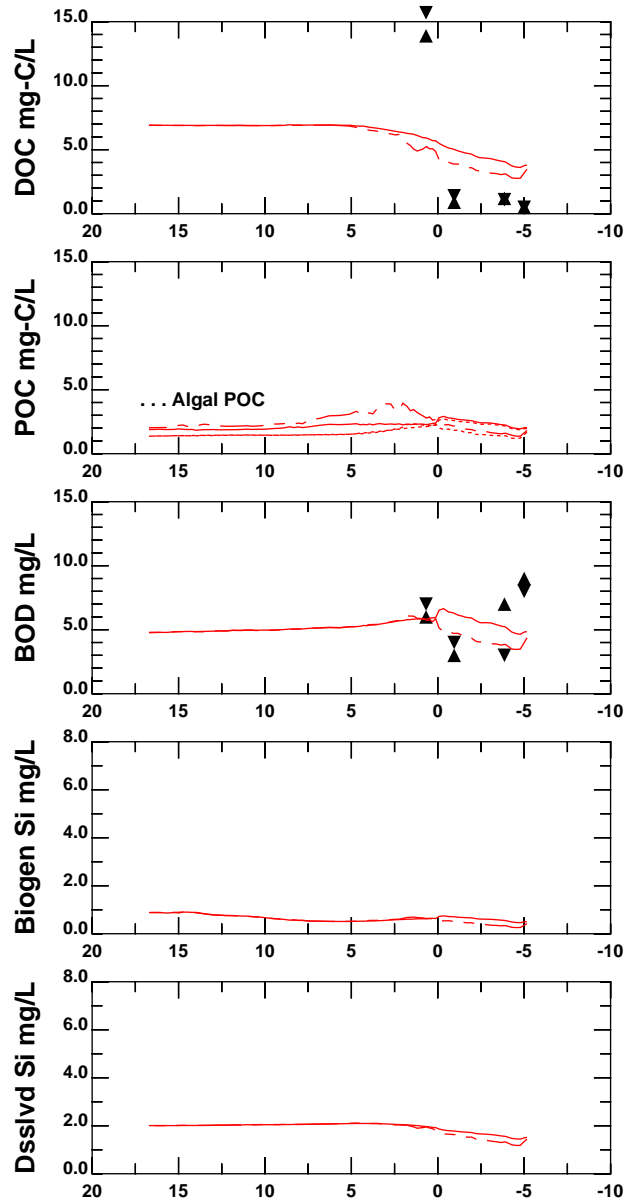
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



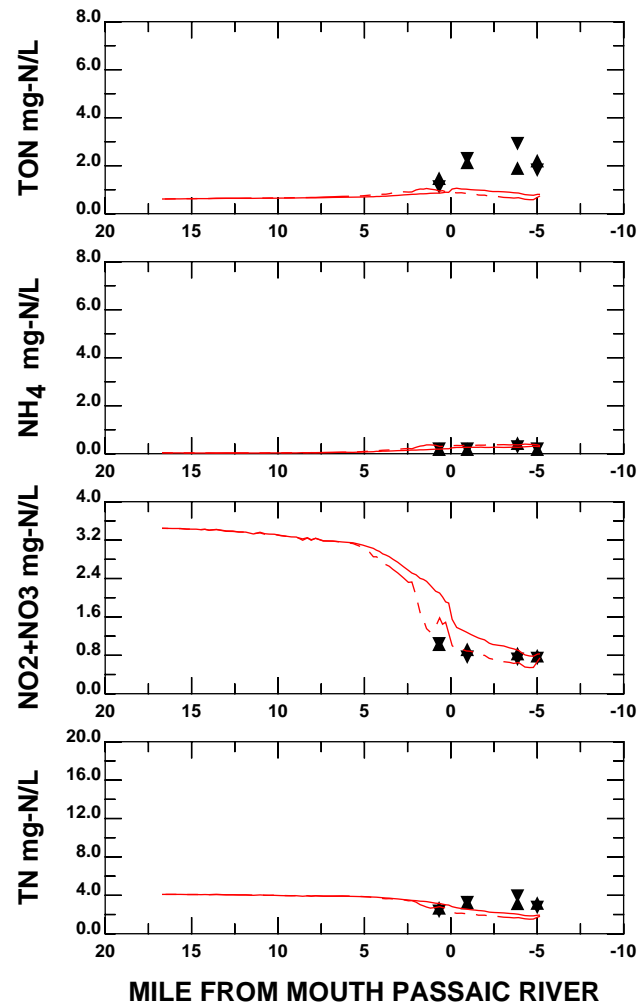
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jul 28,2004

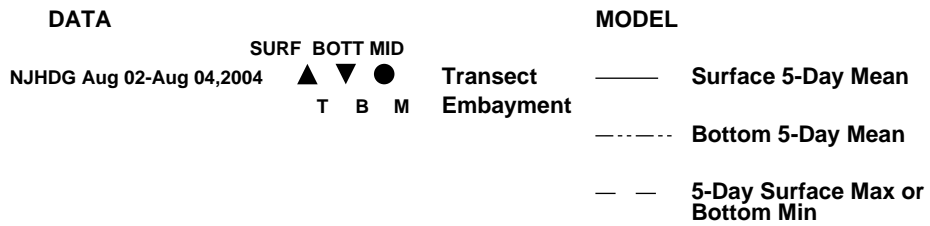
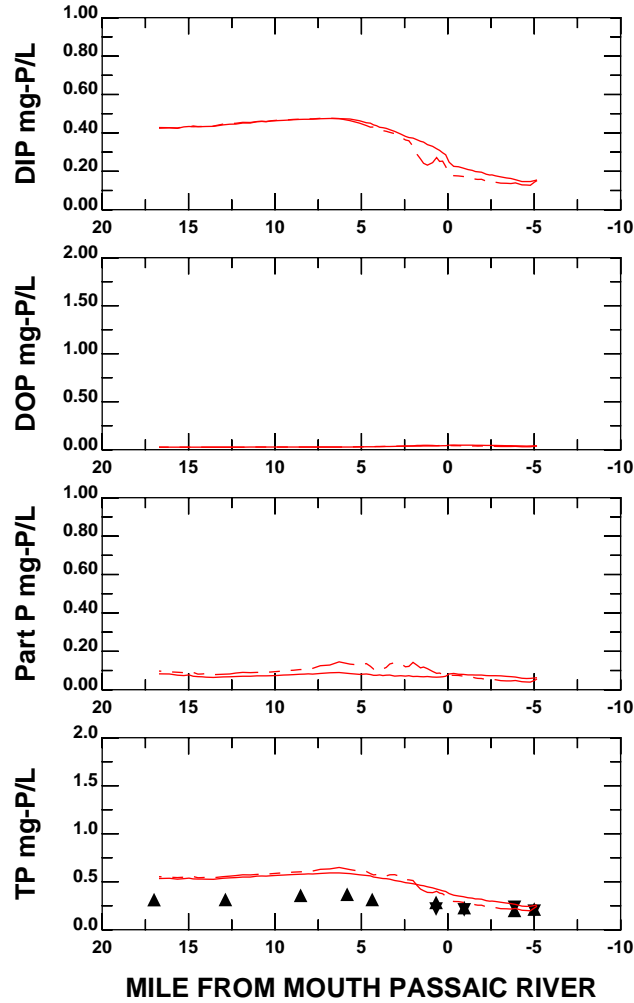
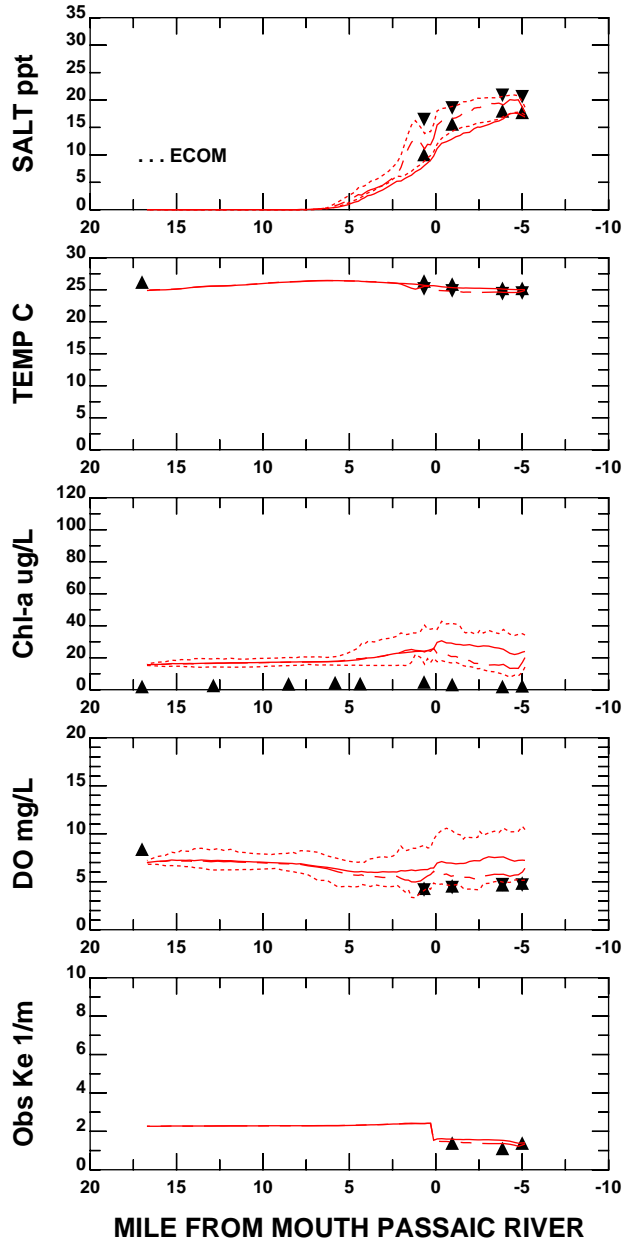
SURF BOTT MID

▲ ▼ ●  
T B M

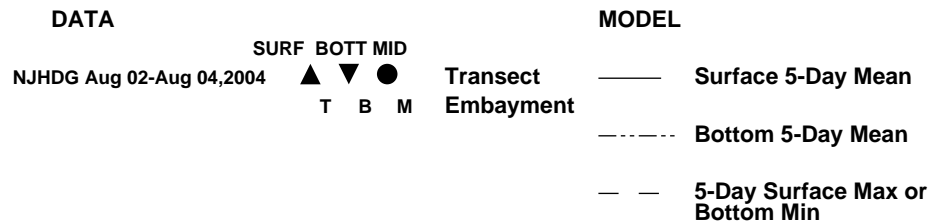
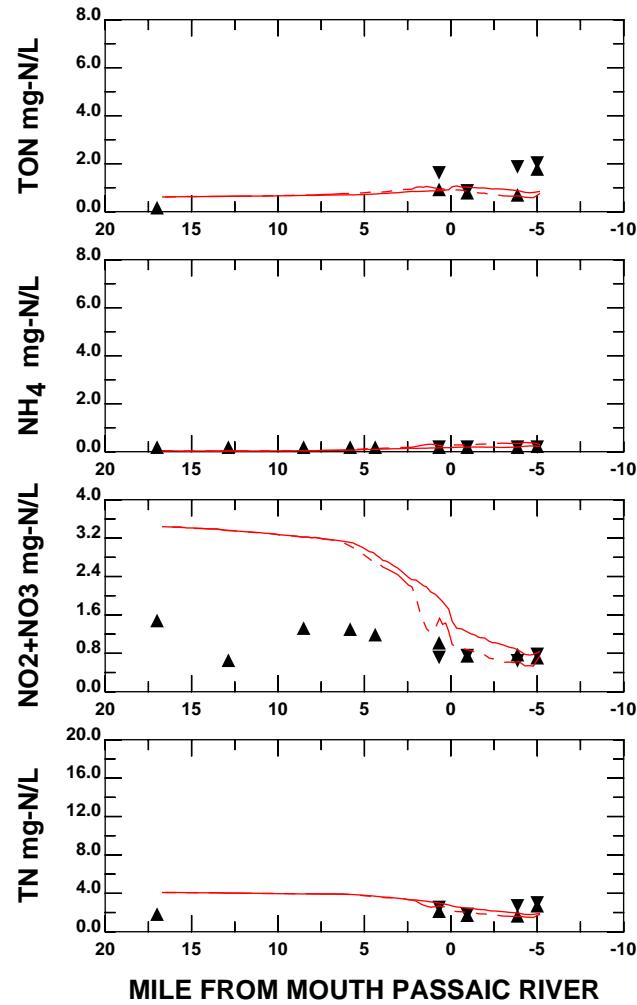
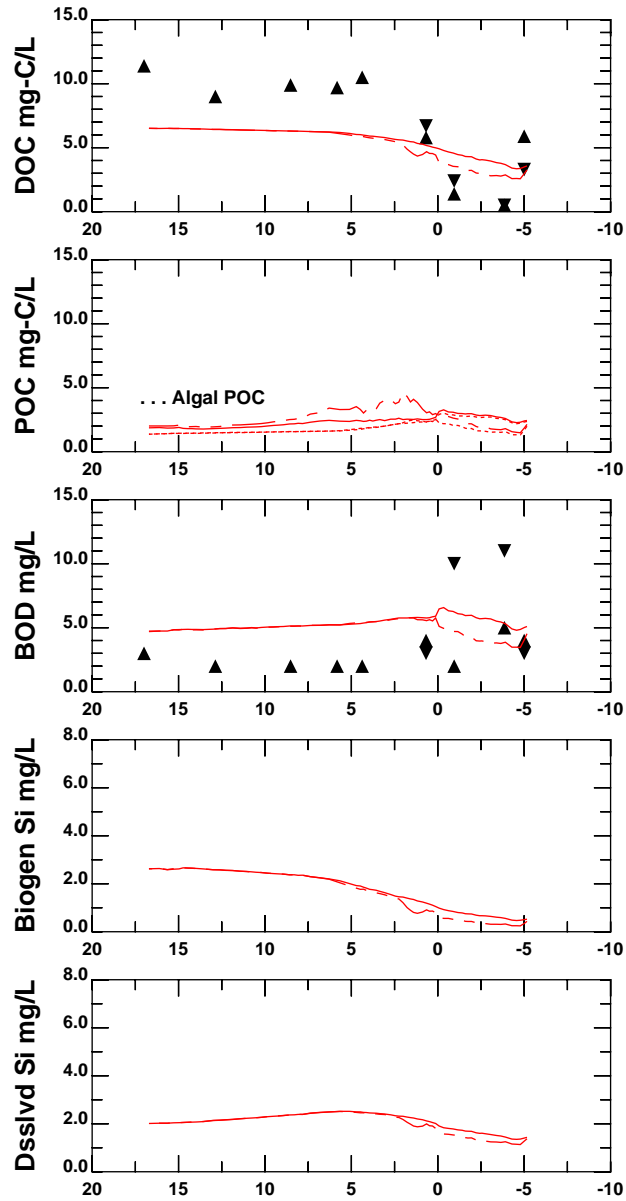
Transect  
Embayment

#### MODEL

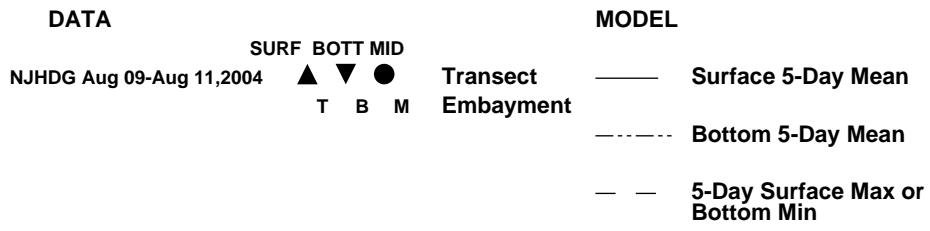
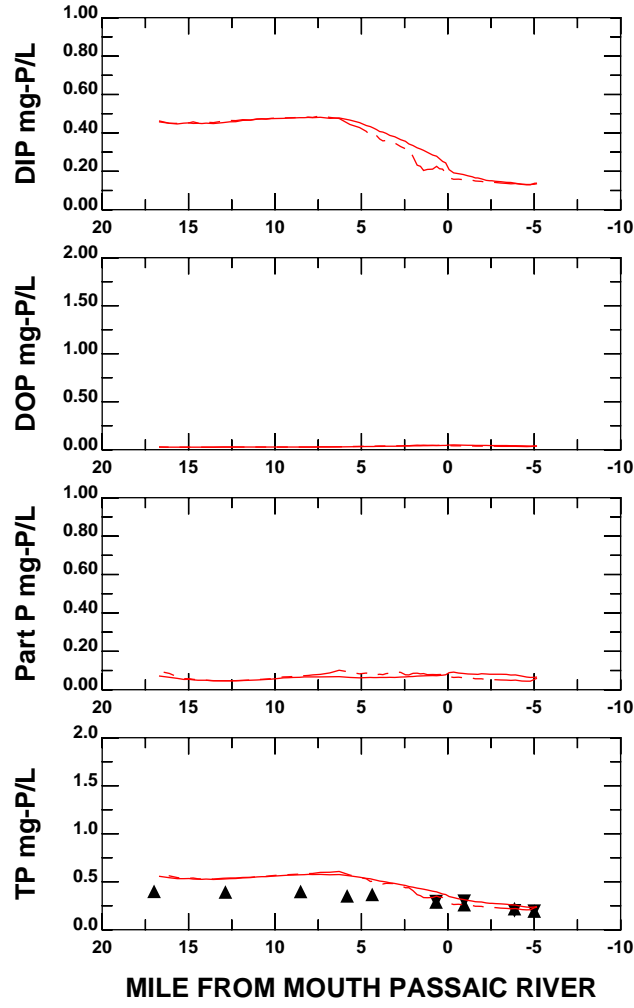
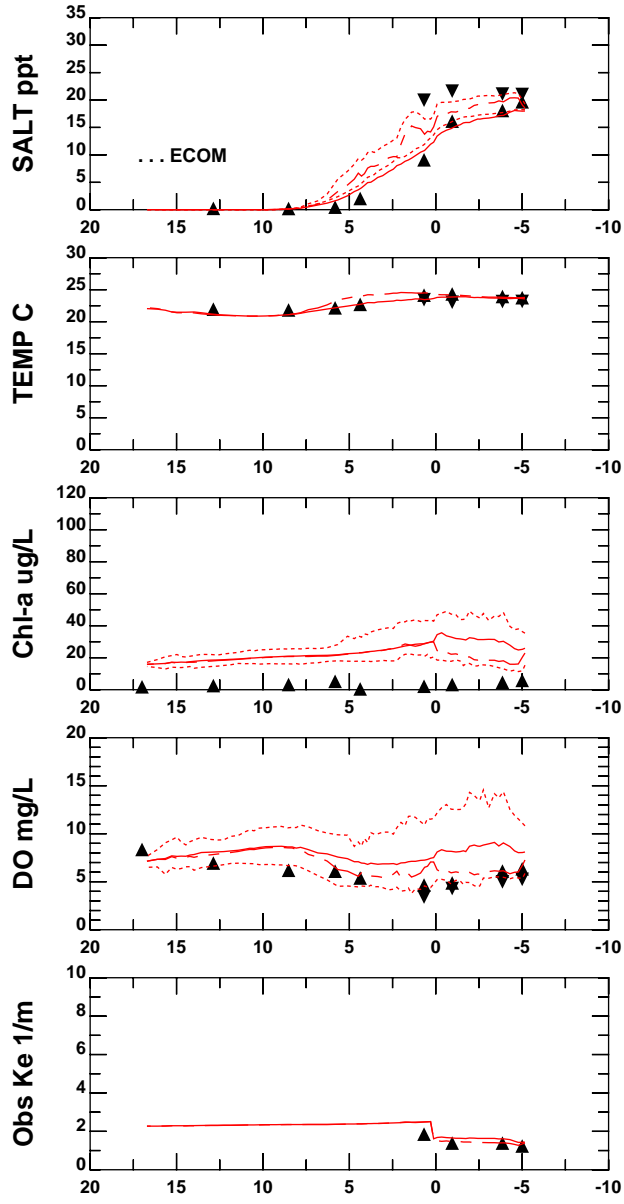
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

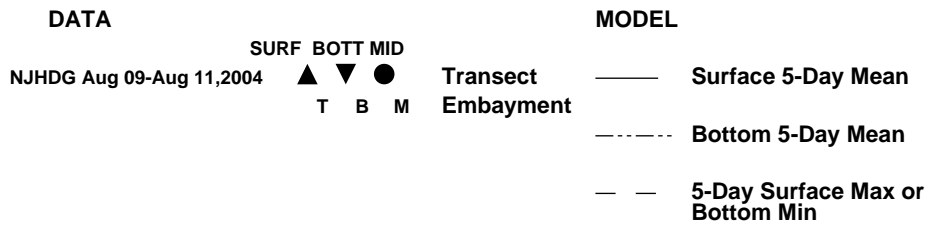
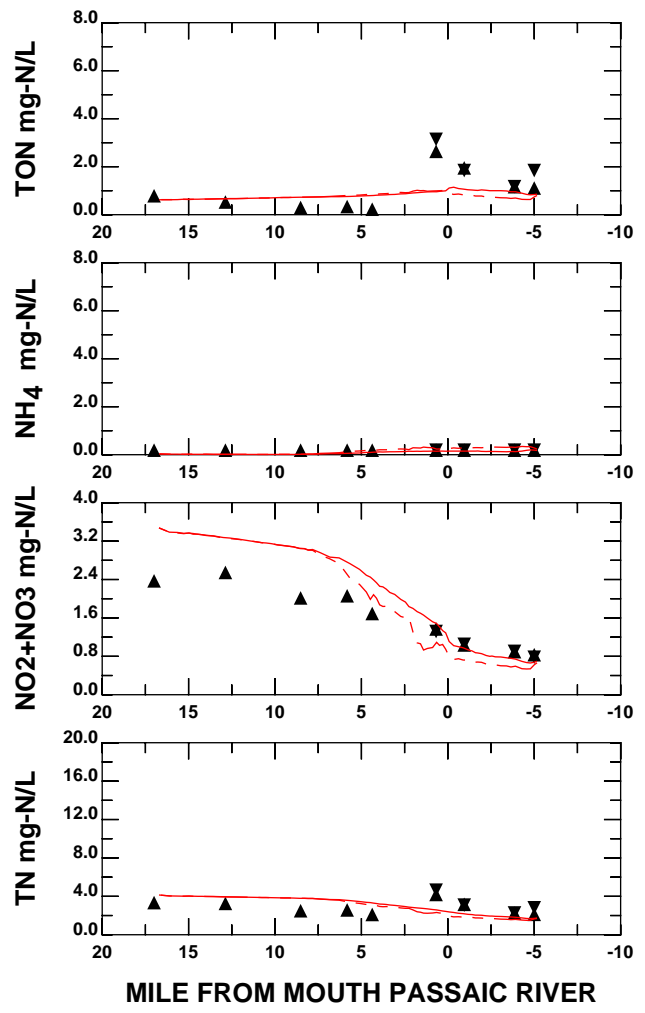
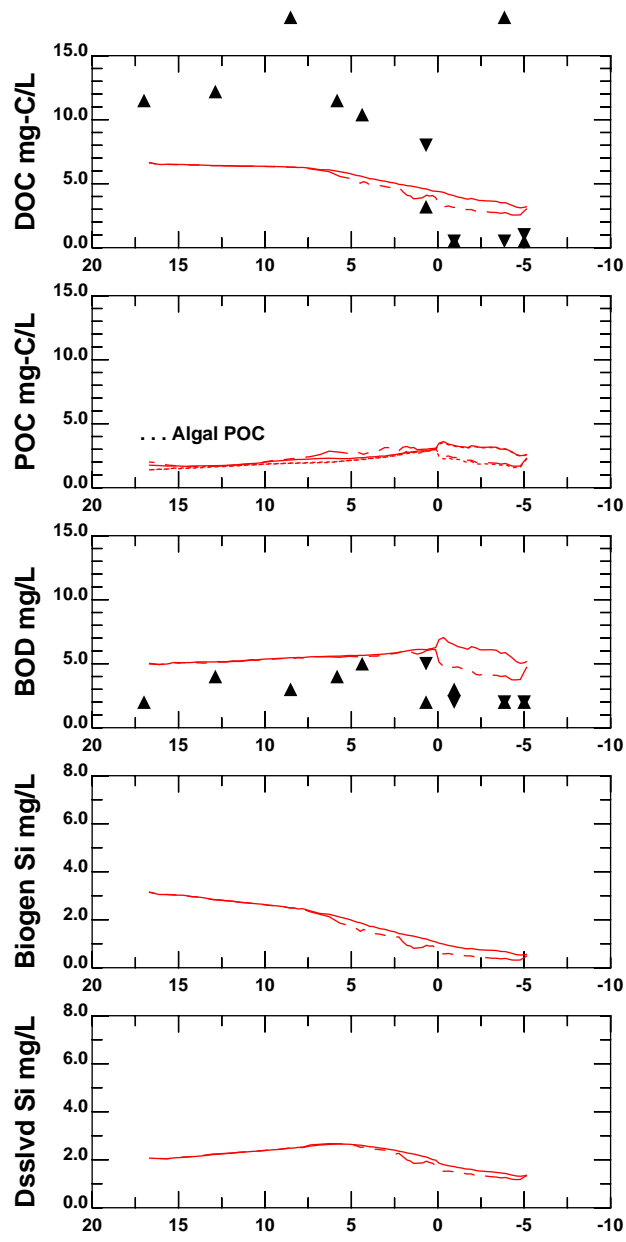


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

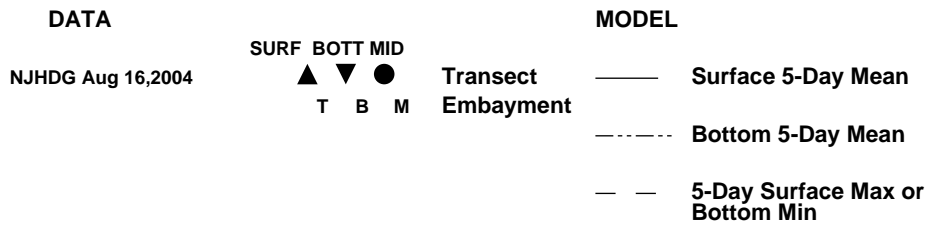
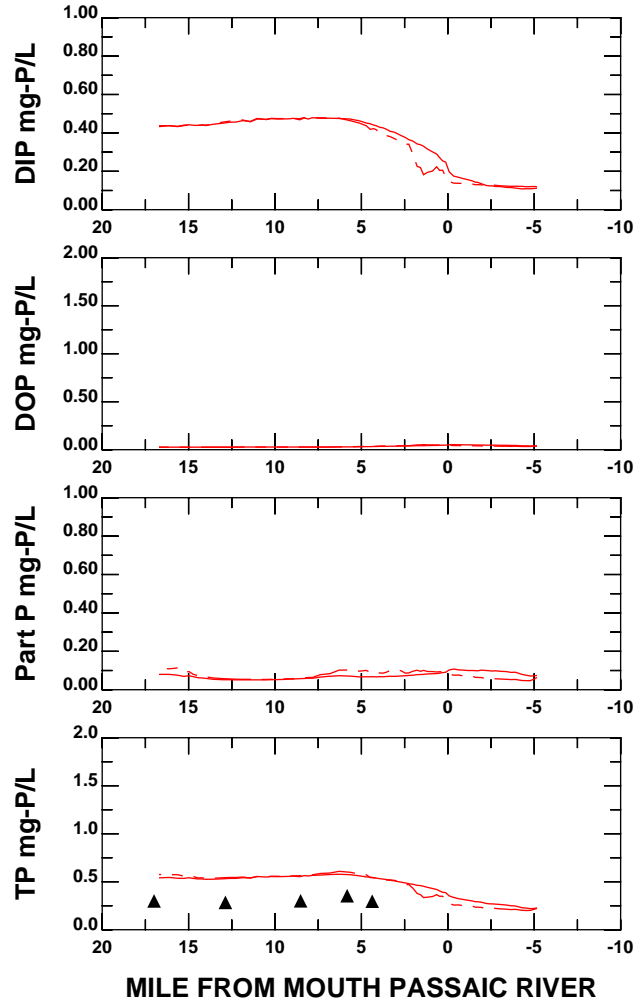
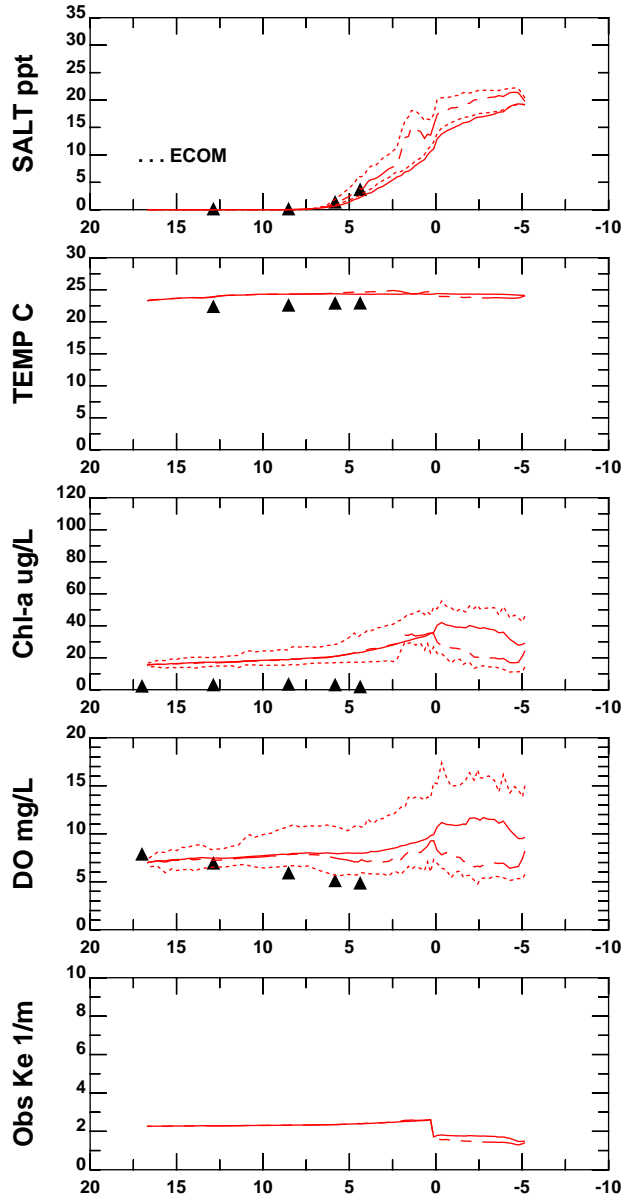


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

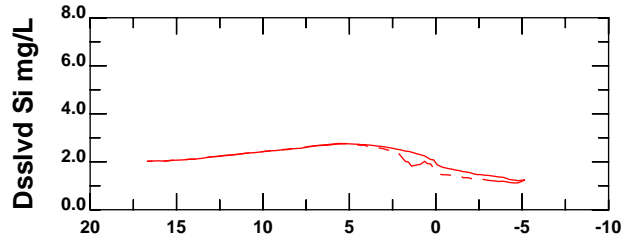
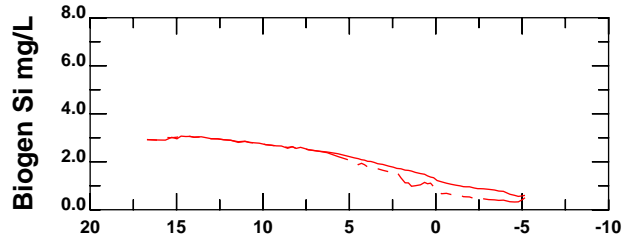
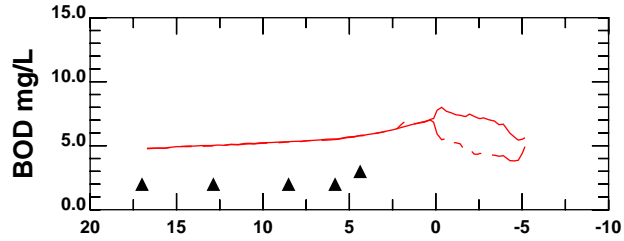
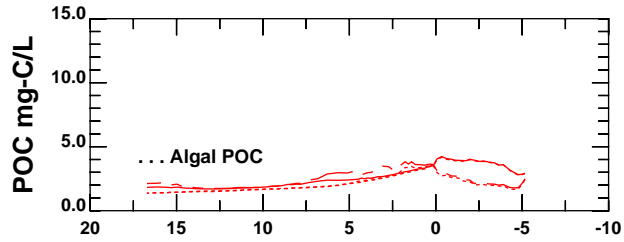
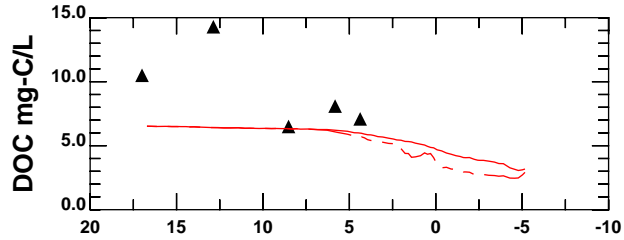




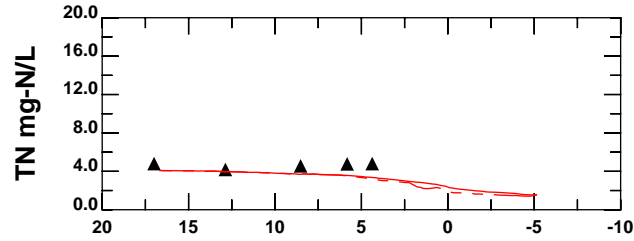
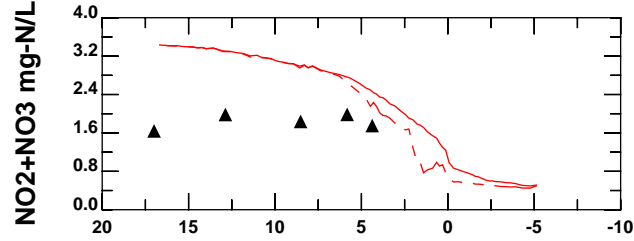
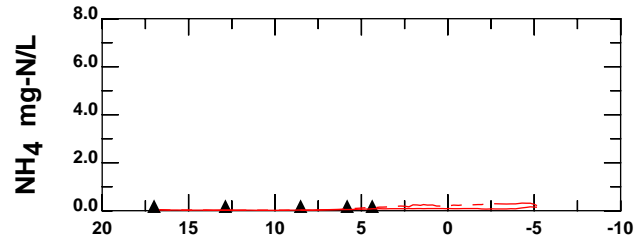
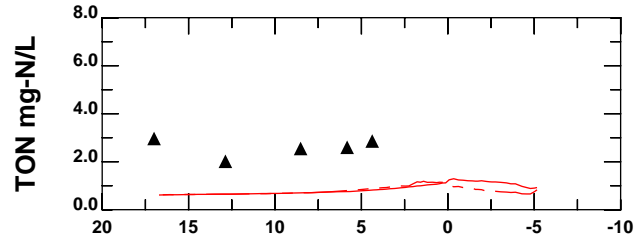
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



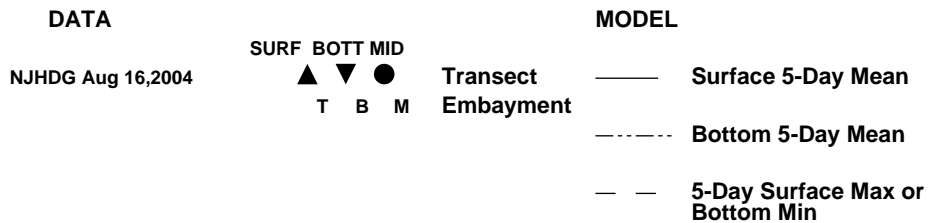
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER

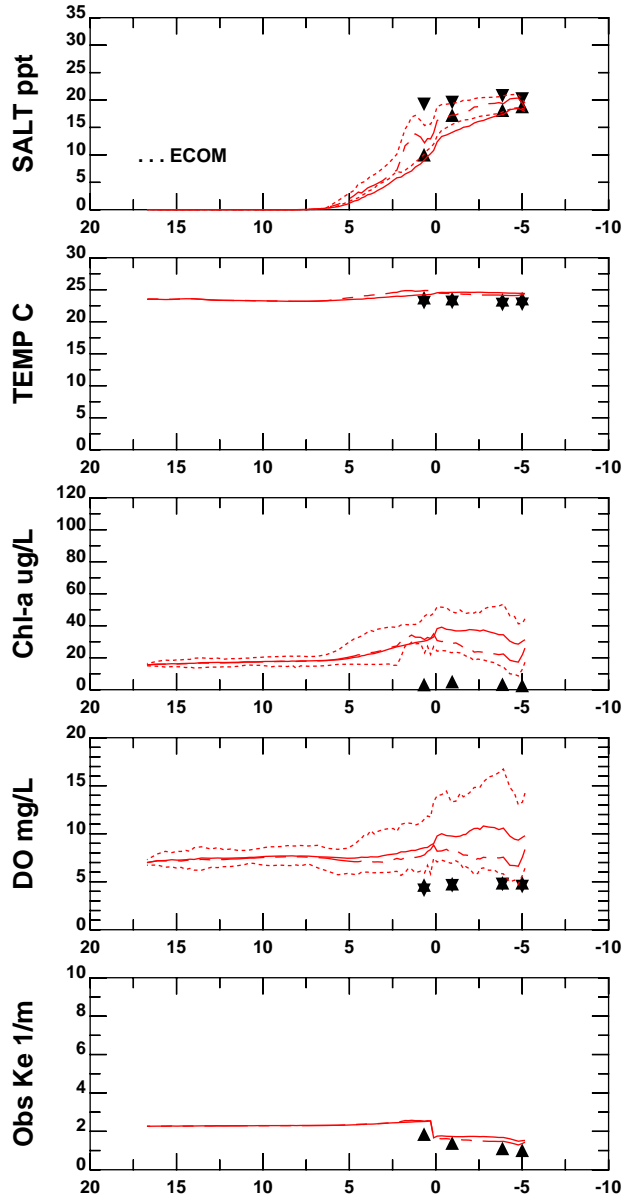


MILE FROM MOUTH PASSAIC RIVER



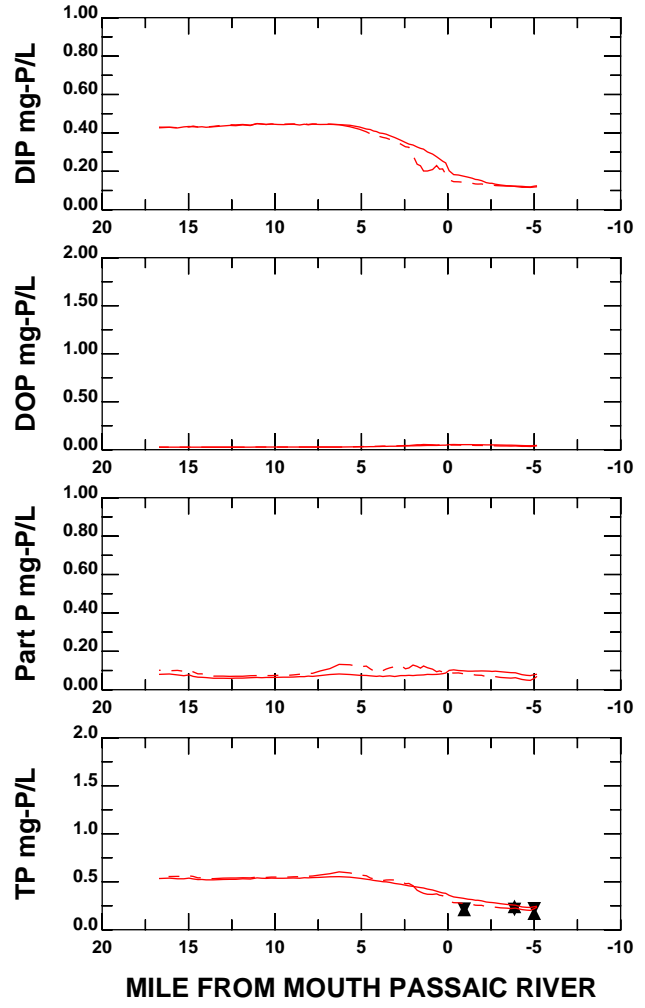
# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0304

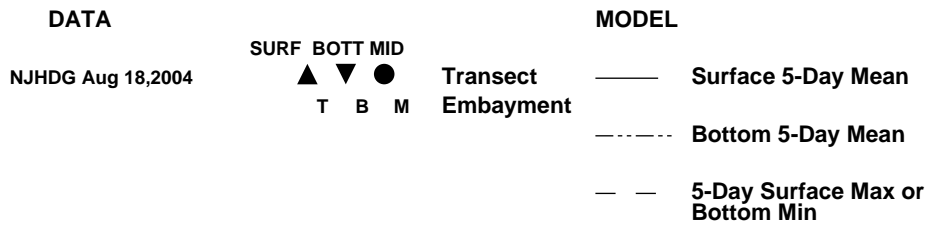


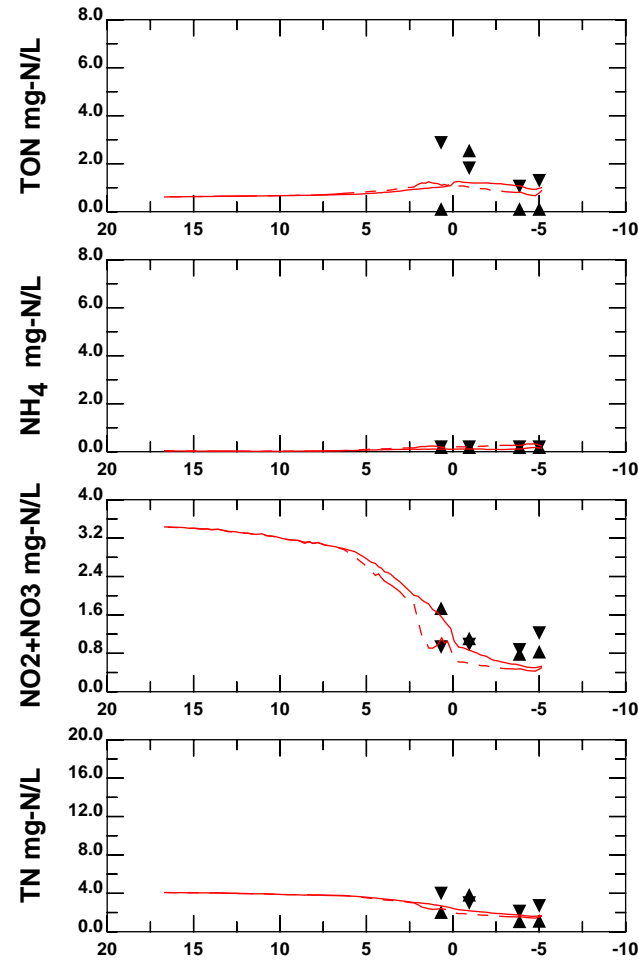
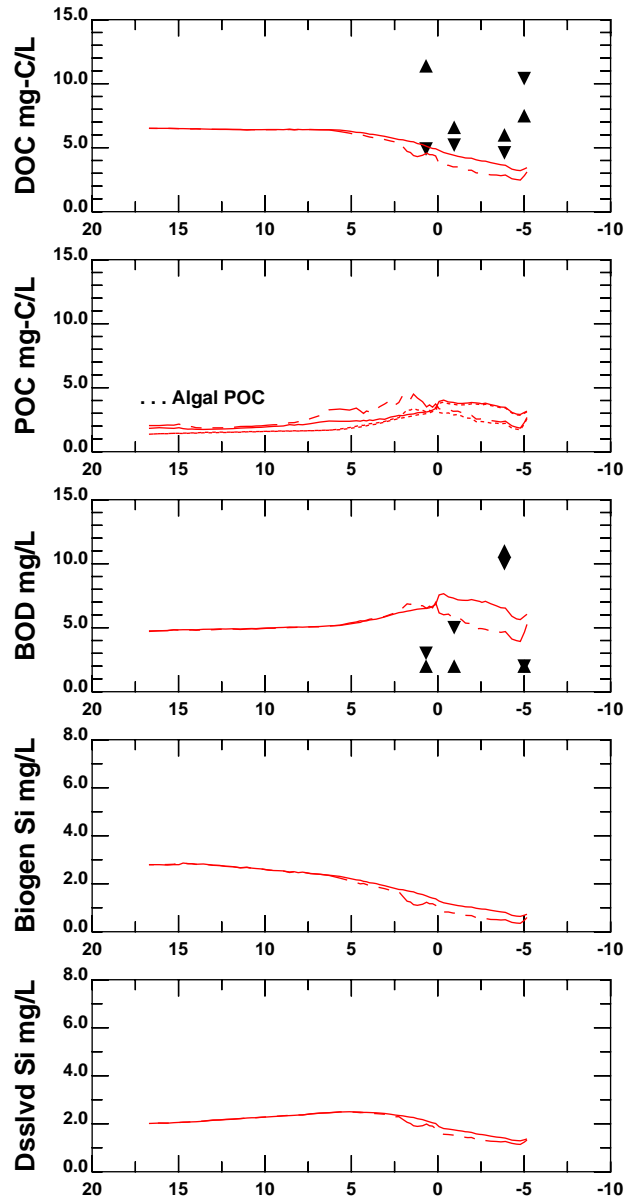
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



MILE FROM MOUTH PASSAIC RIVER





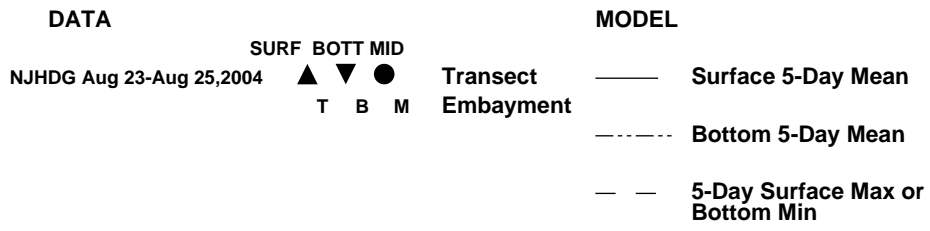
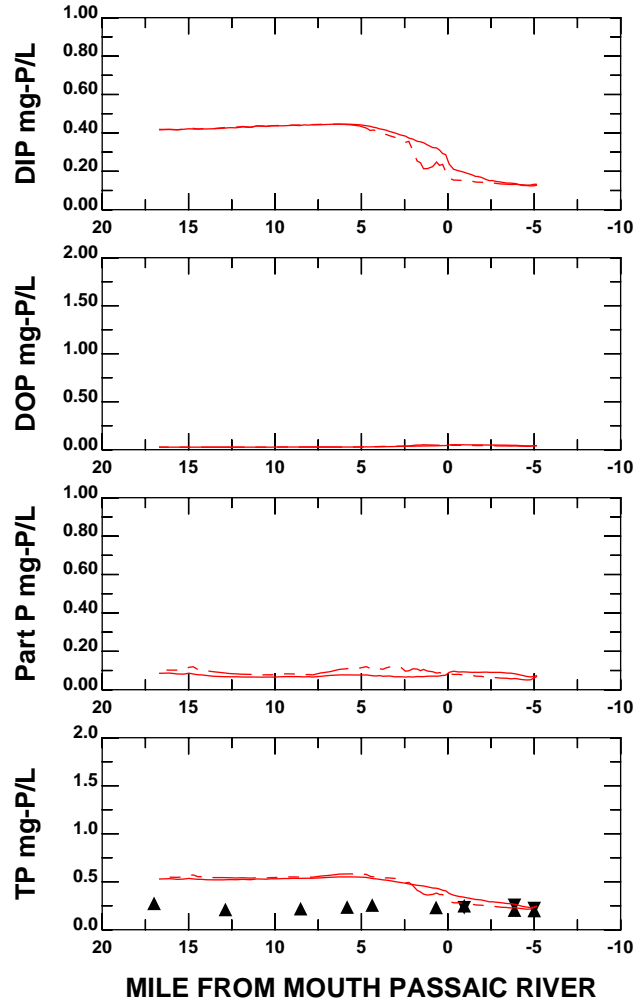
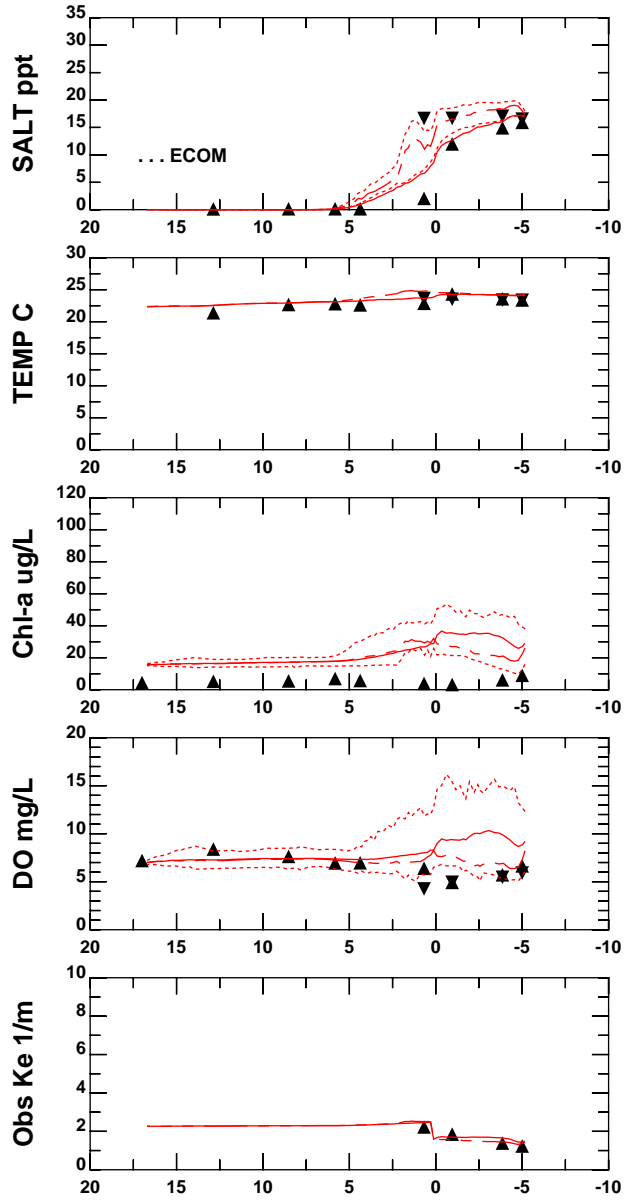
DATA  
NJHDG Aug 18,2004

MODEL

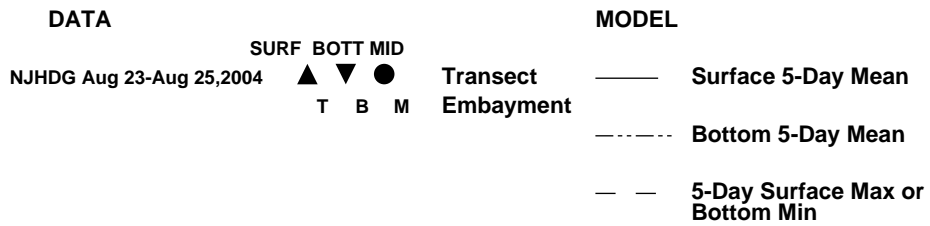
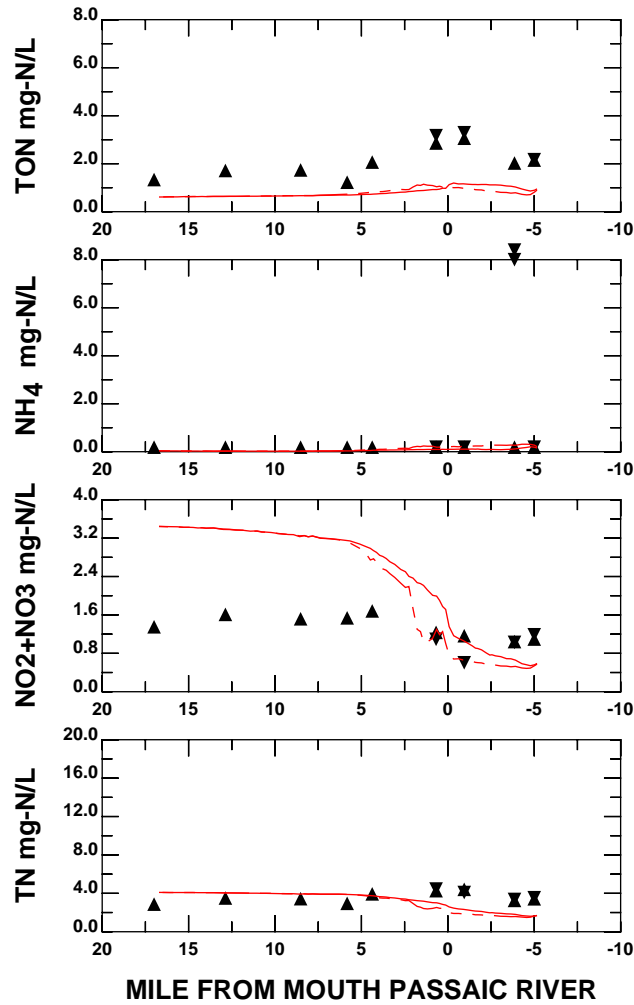
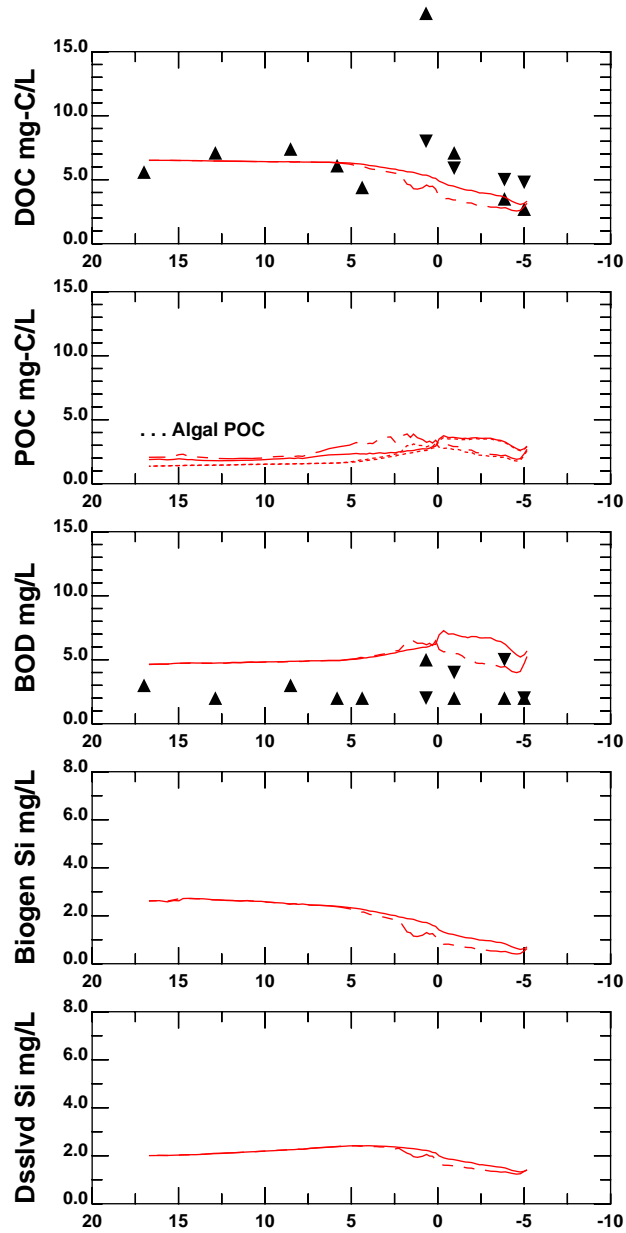
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

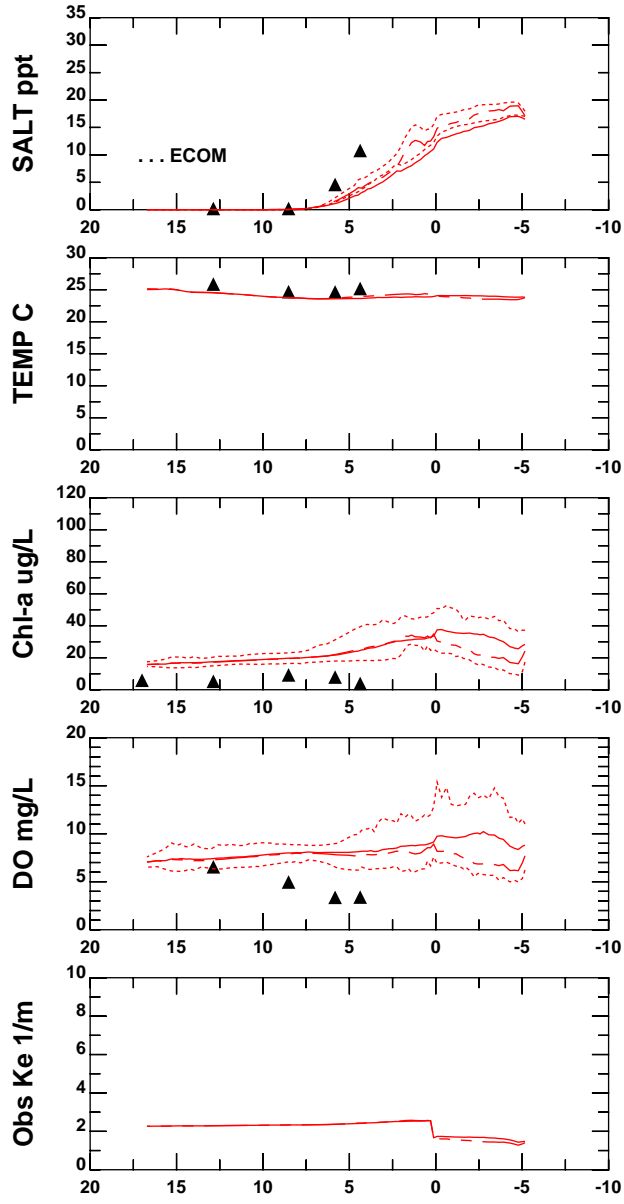
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

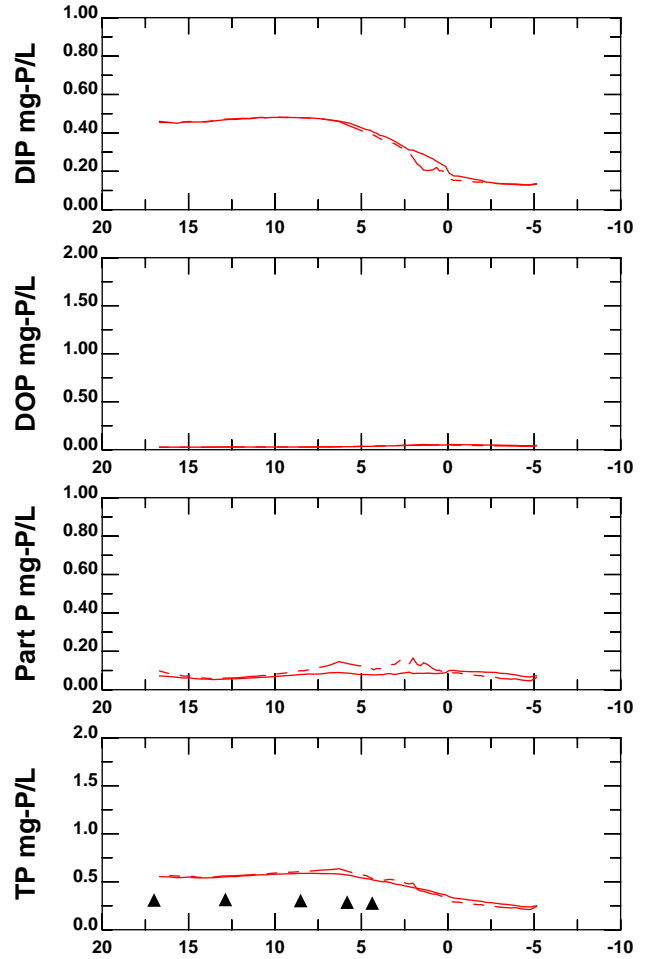


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

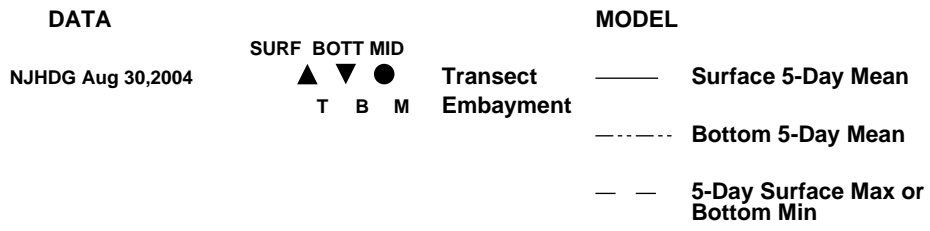


MILE FROM MOUTH PASSAIC RIVER

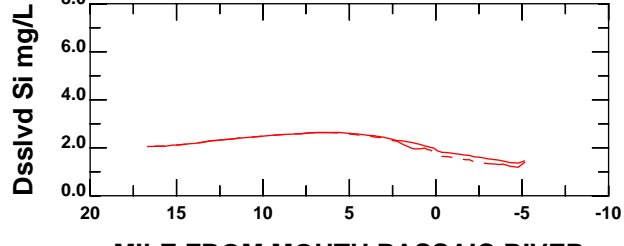
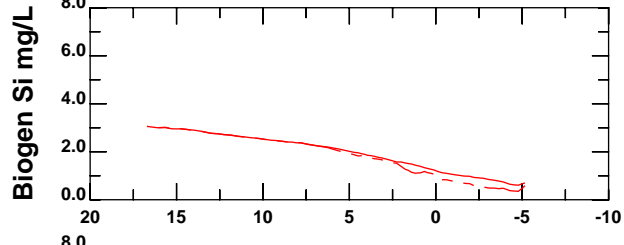
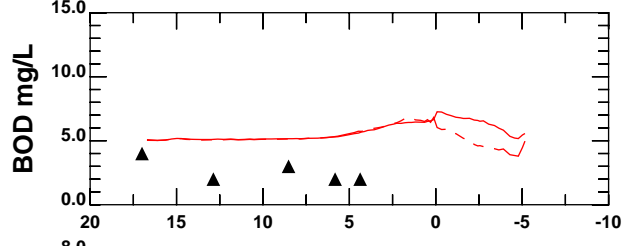
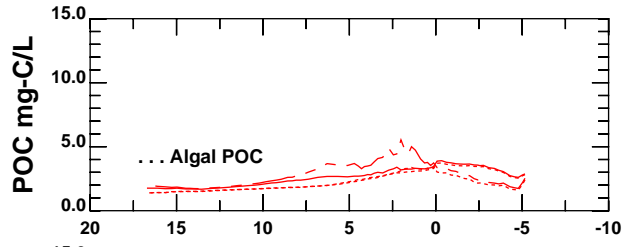
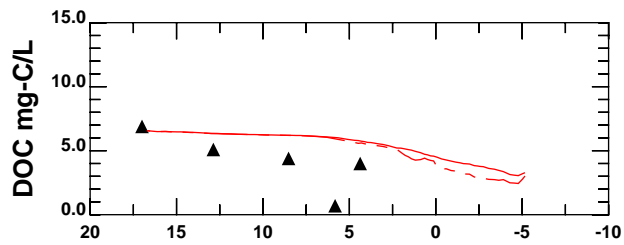
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



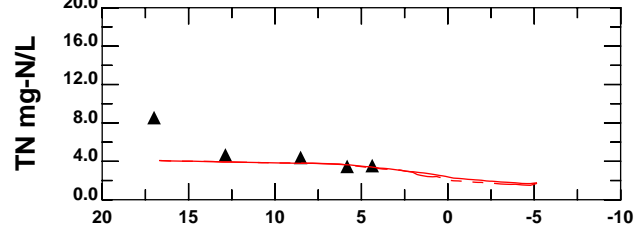
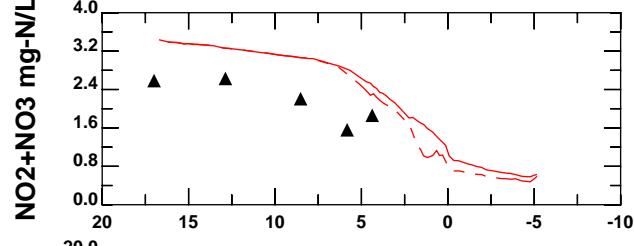
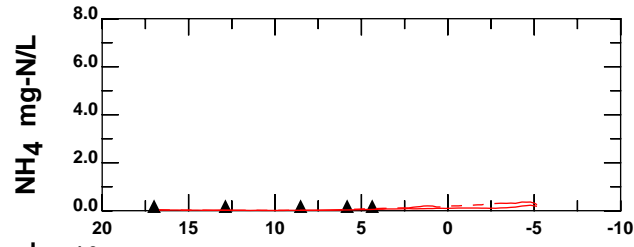
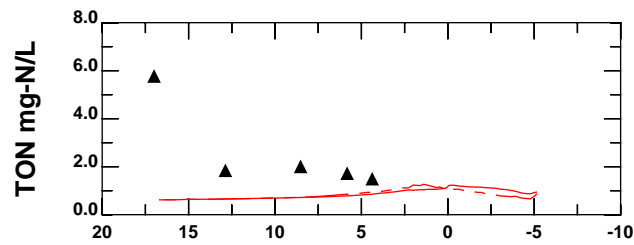
MILE FROM MOUTH PASSAIC RIVER







MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Aug 30,2004

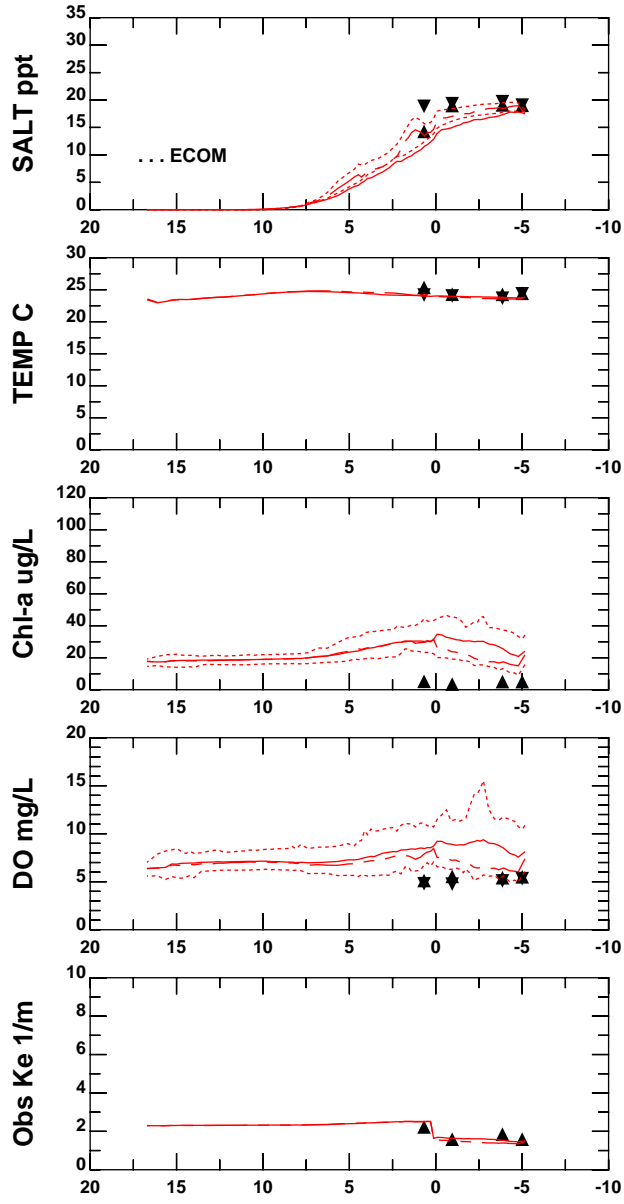
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

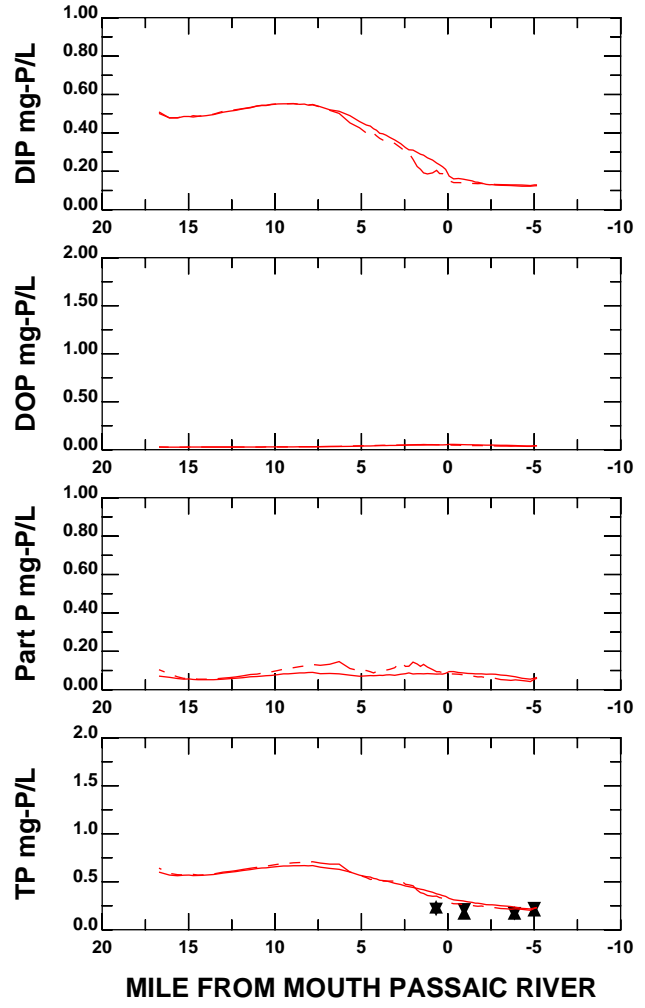
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0304

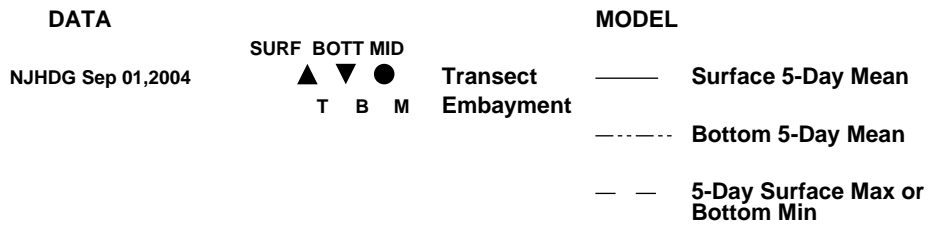


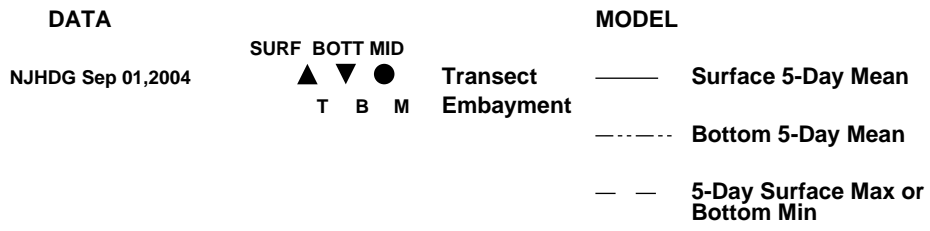
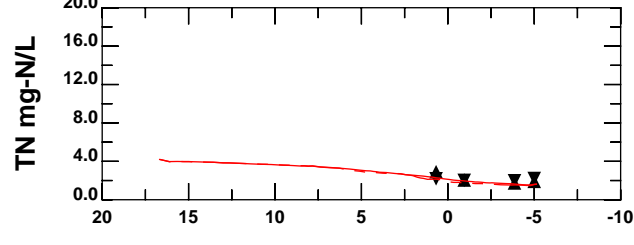
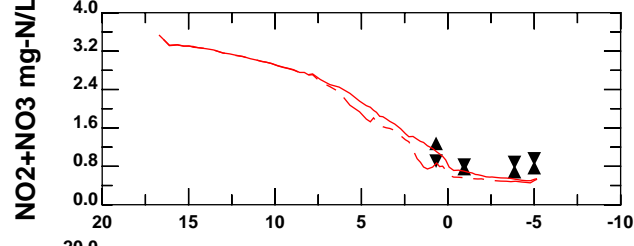
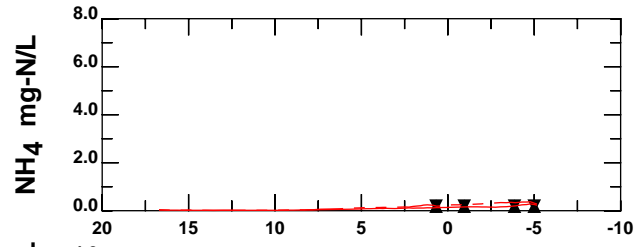
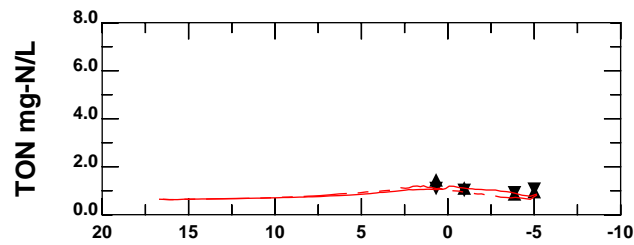
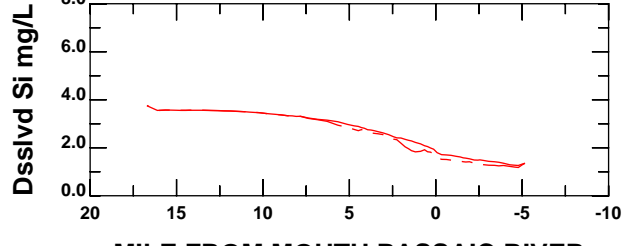
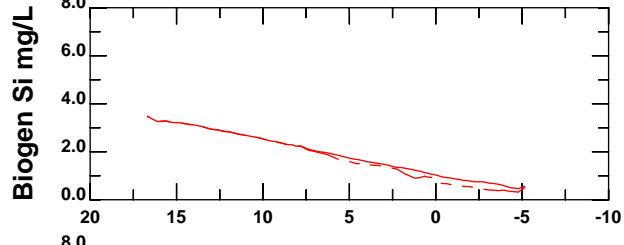
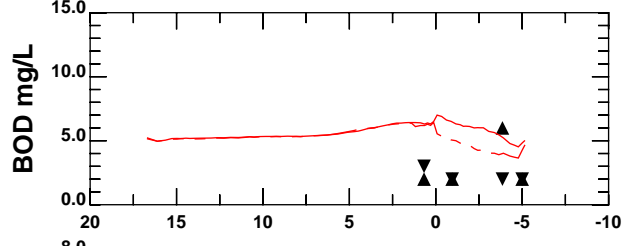
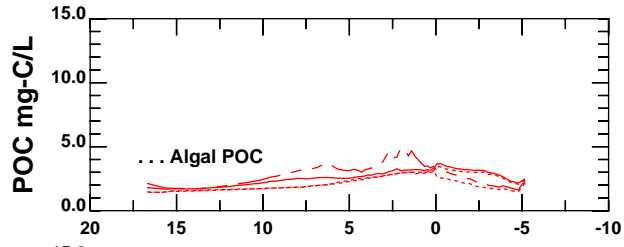
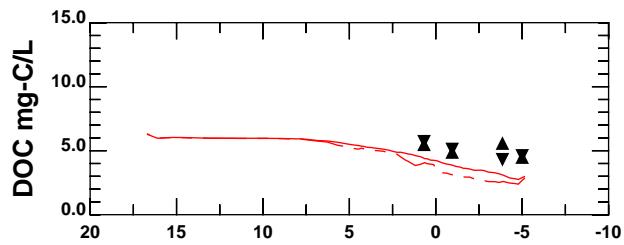
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

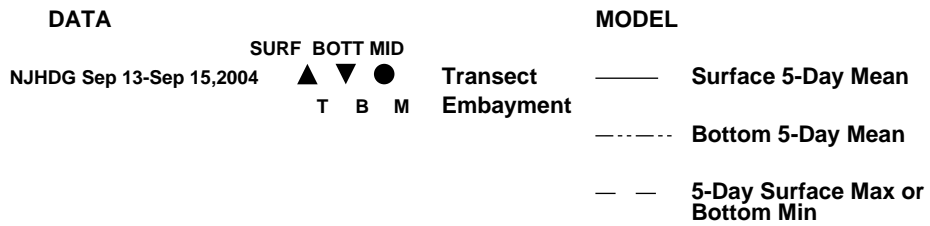
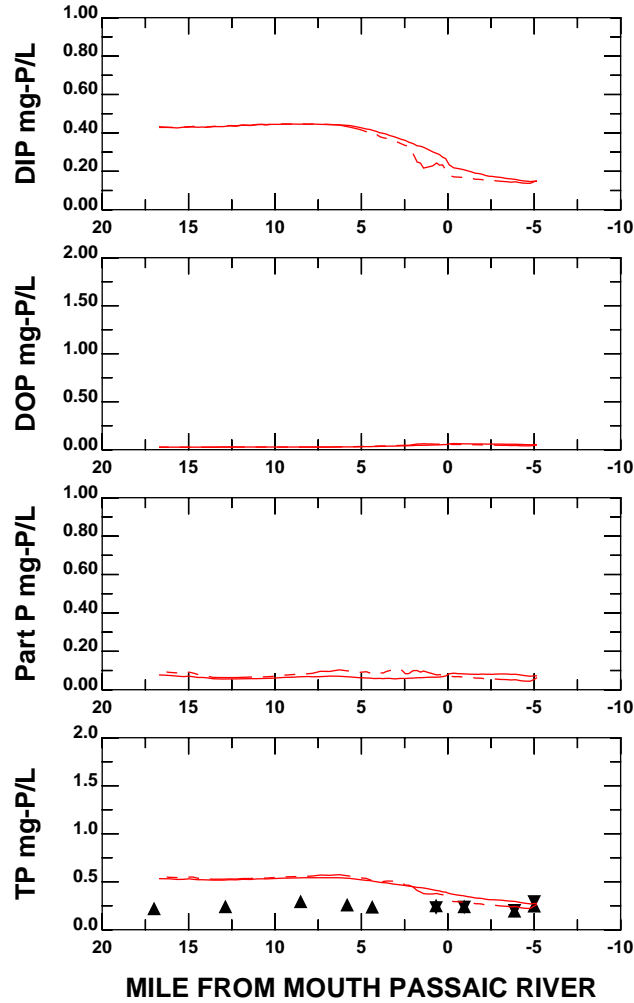
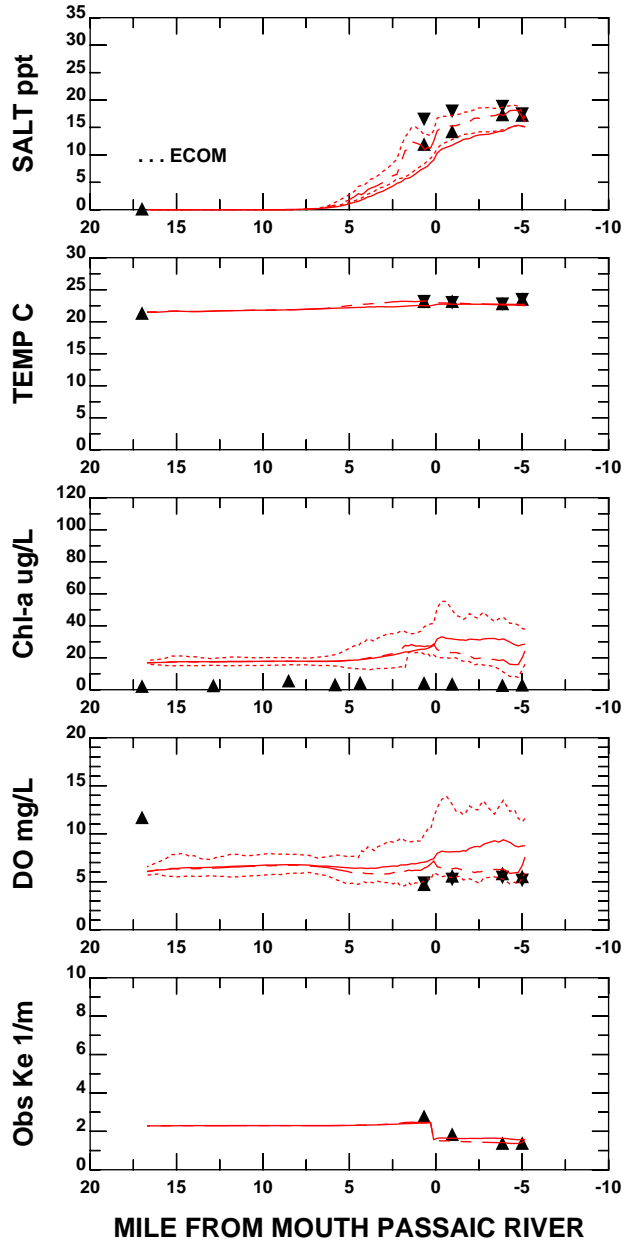


MILE FROM MOUTH PASSAIC RIVER

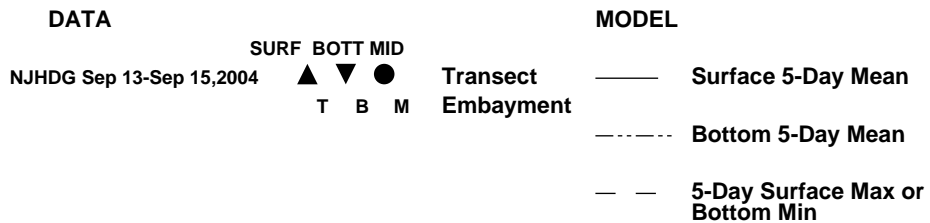
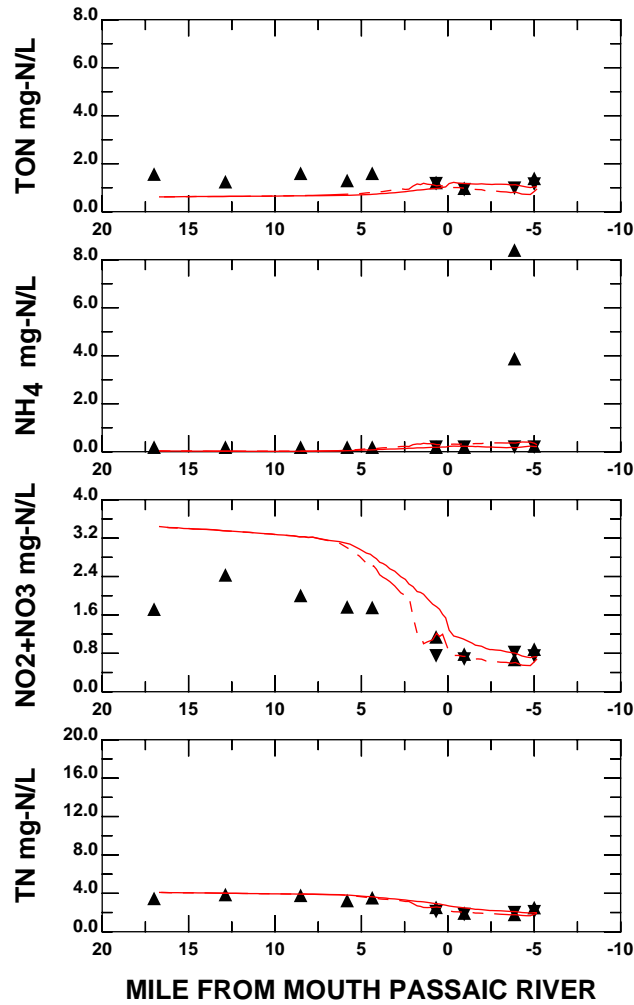
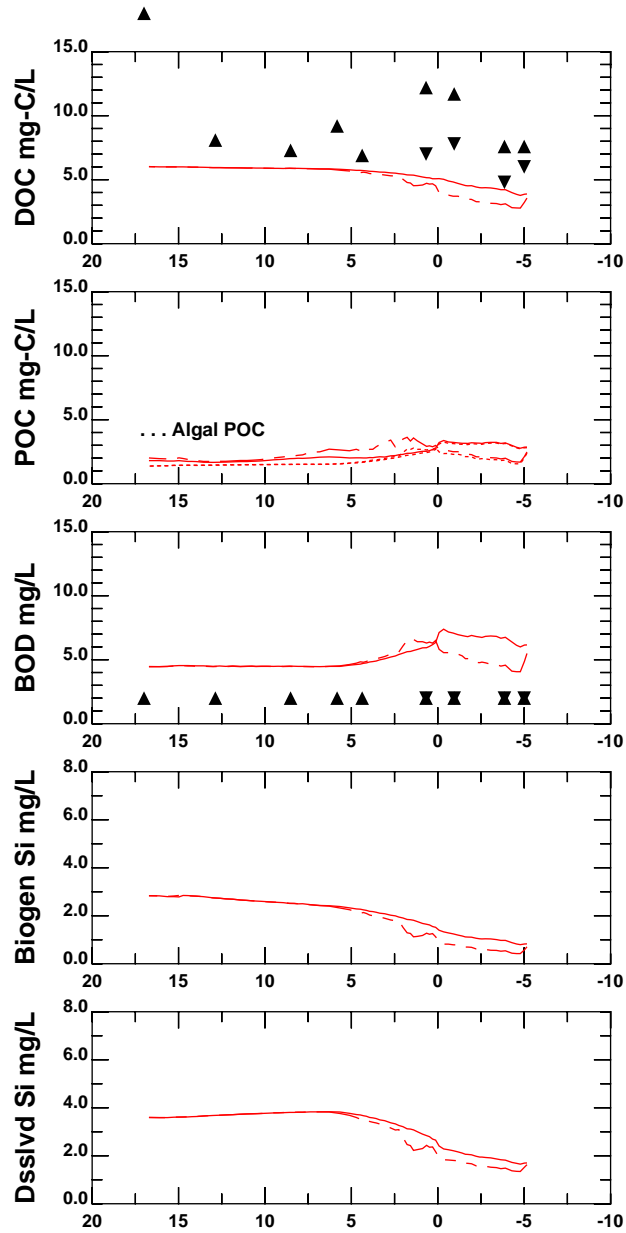




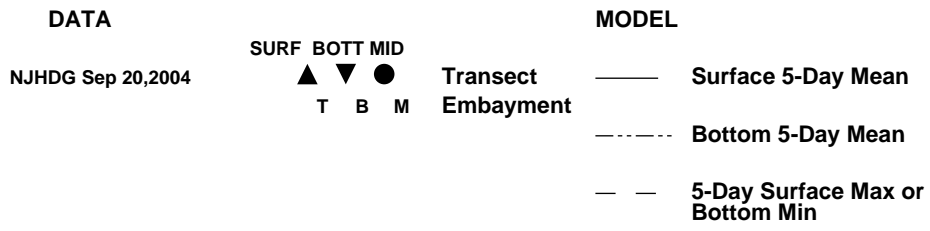
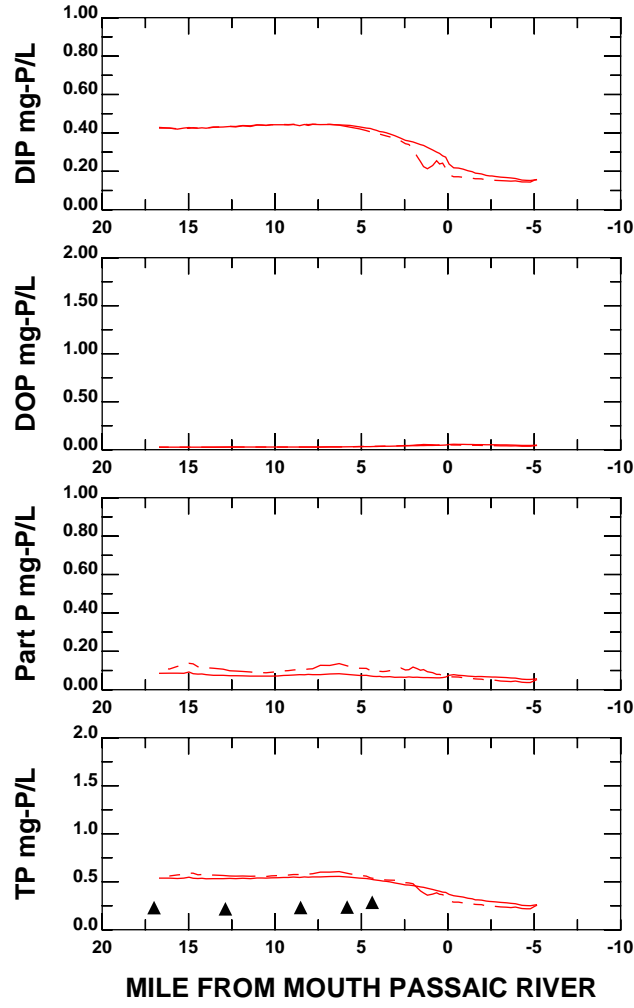
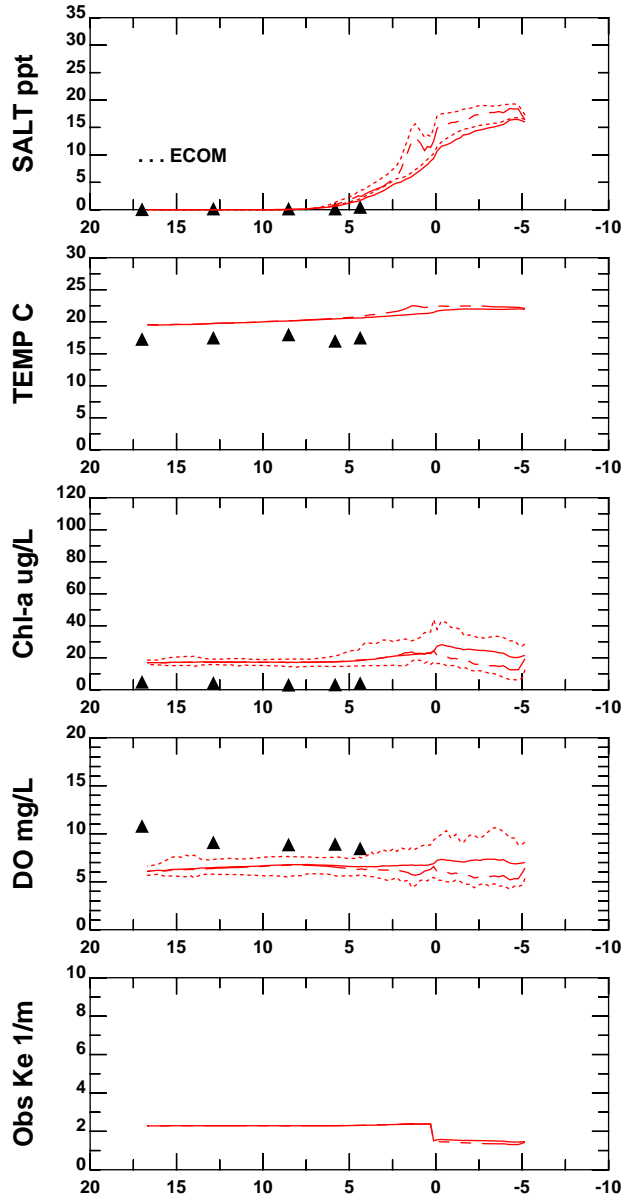
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



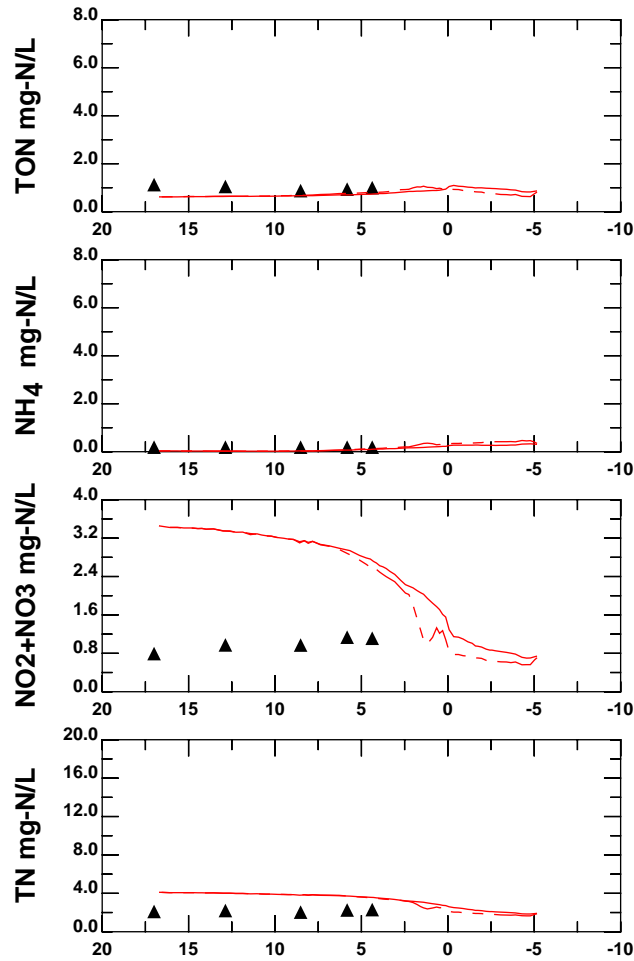
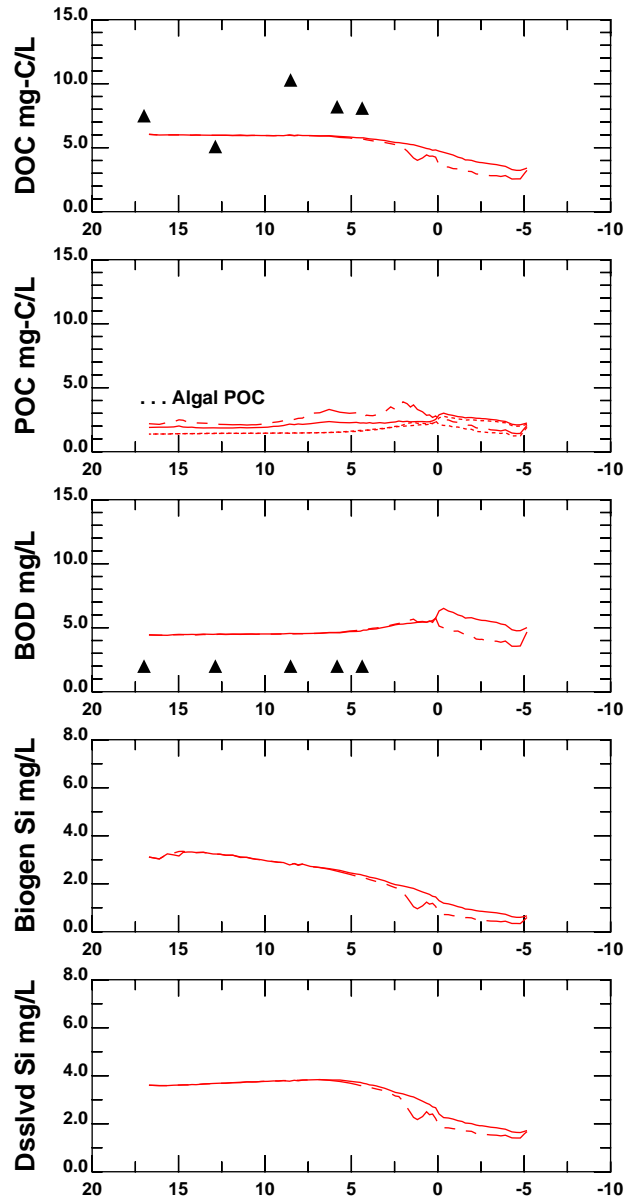
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304



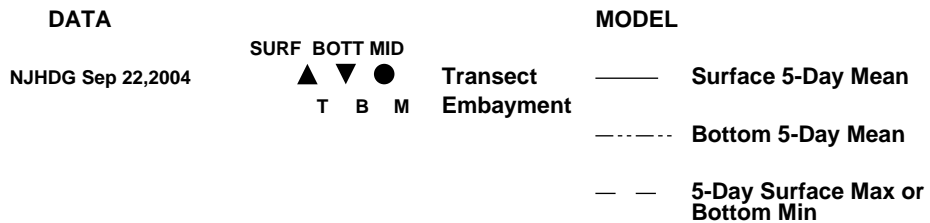
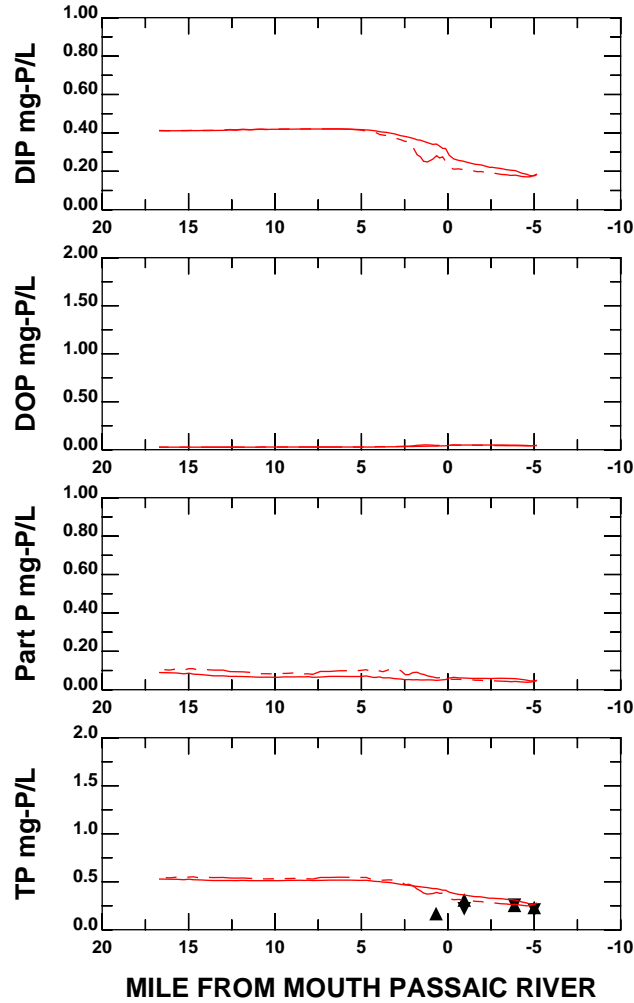
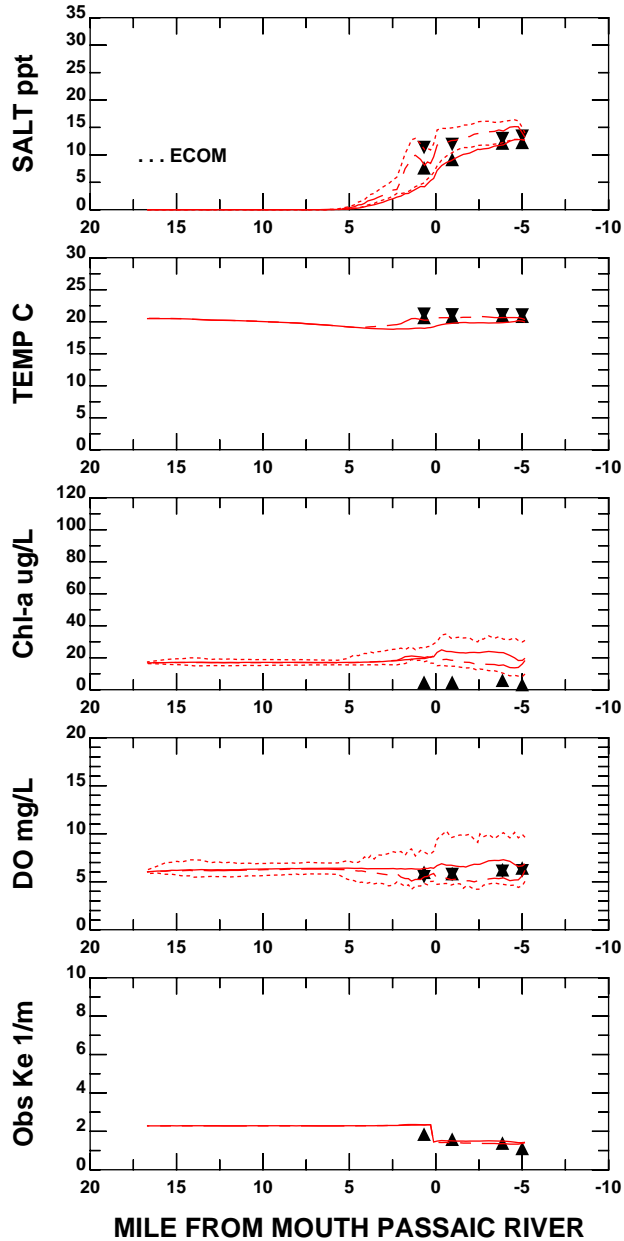
DATA  
NJHGD Sep 20,2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

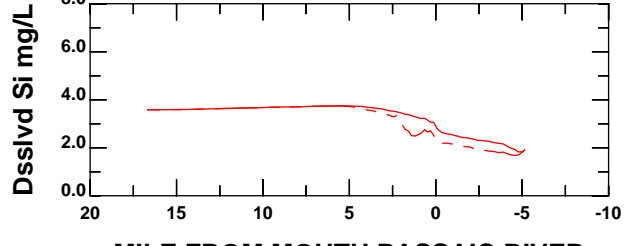
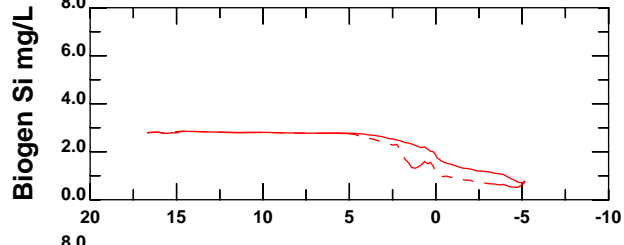
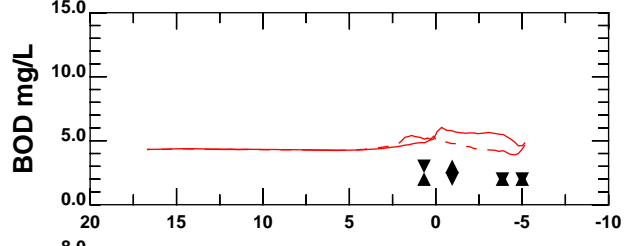
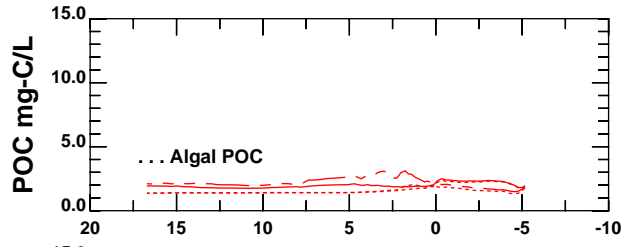
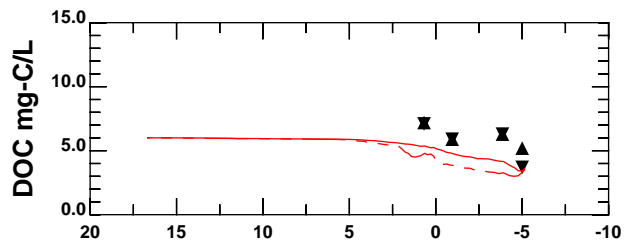
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304

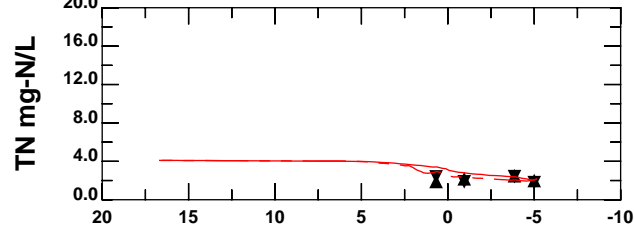
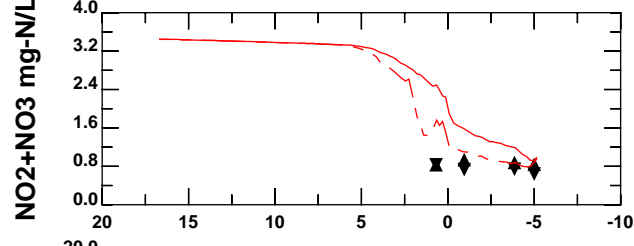
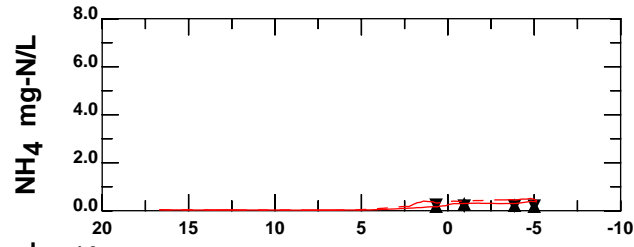
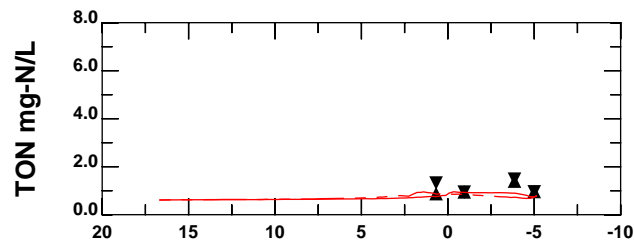


**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

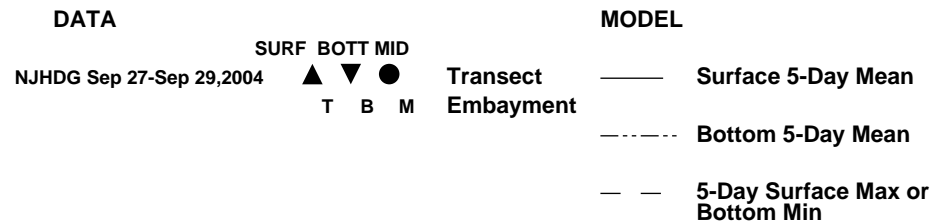
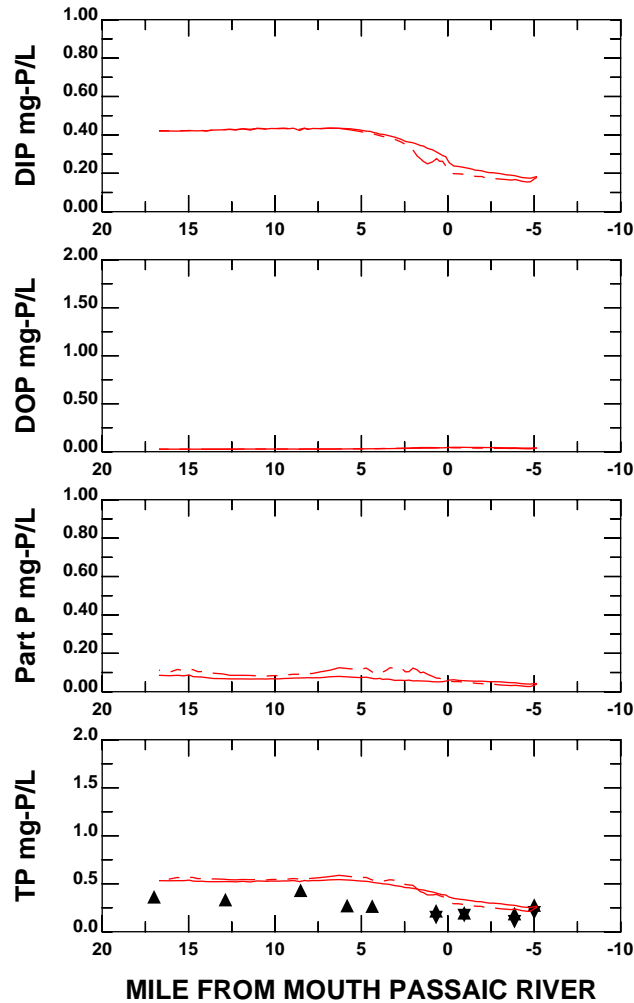
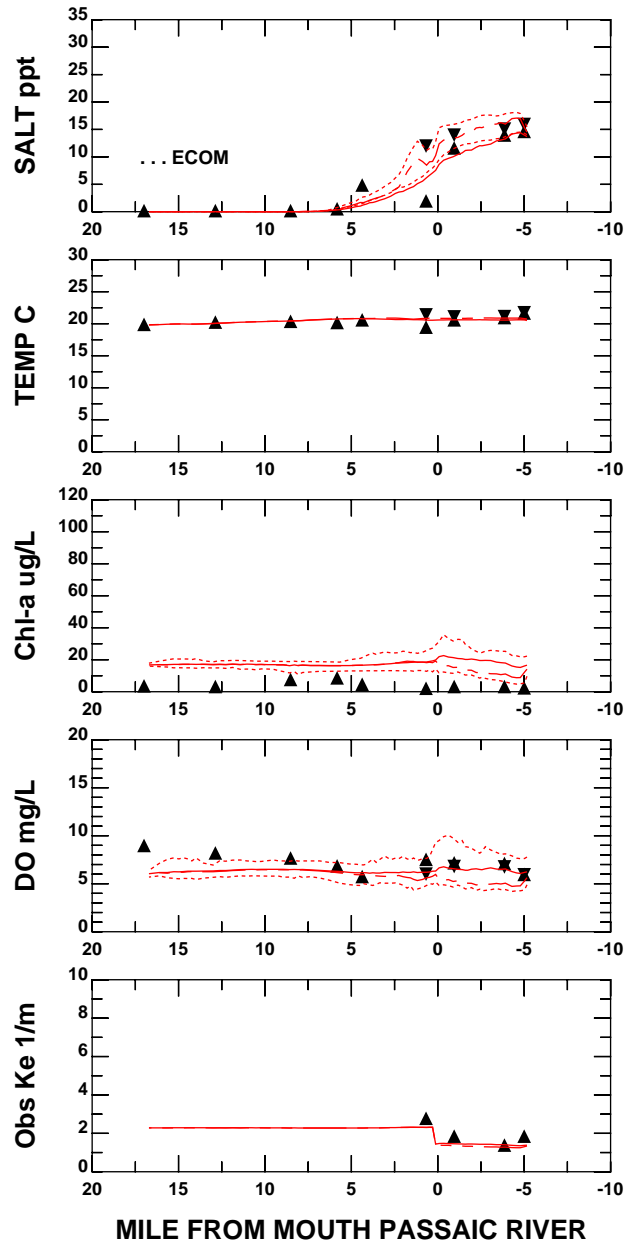
DATA  
NJHGD Sep 22, 2004

MODEL

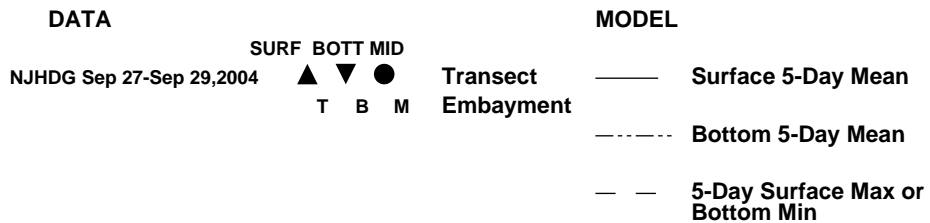
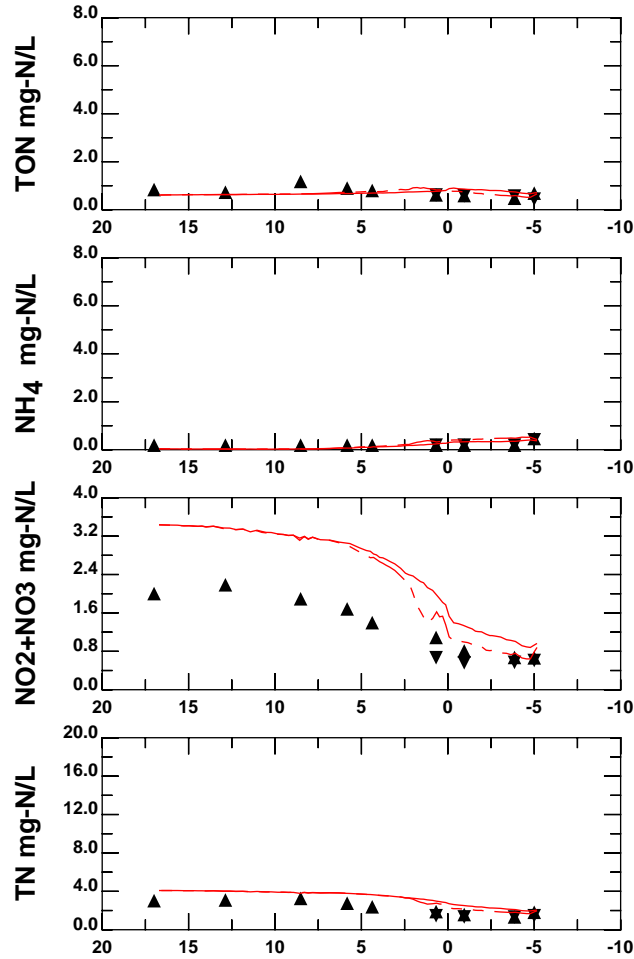
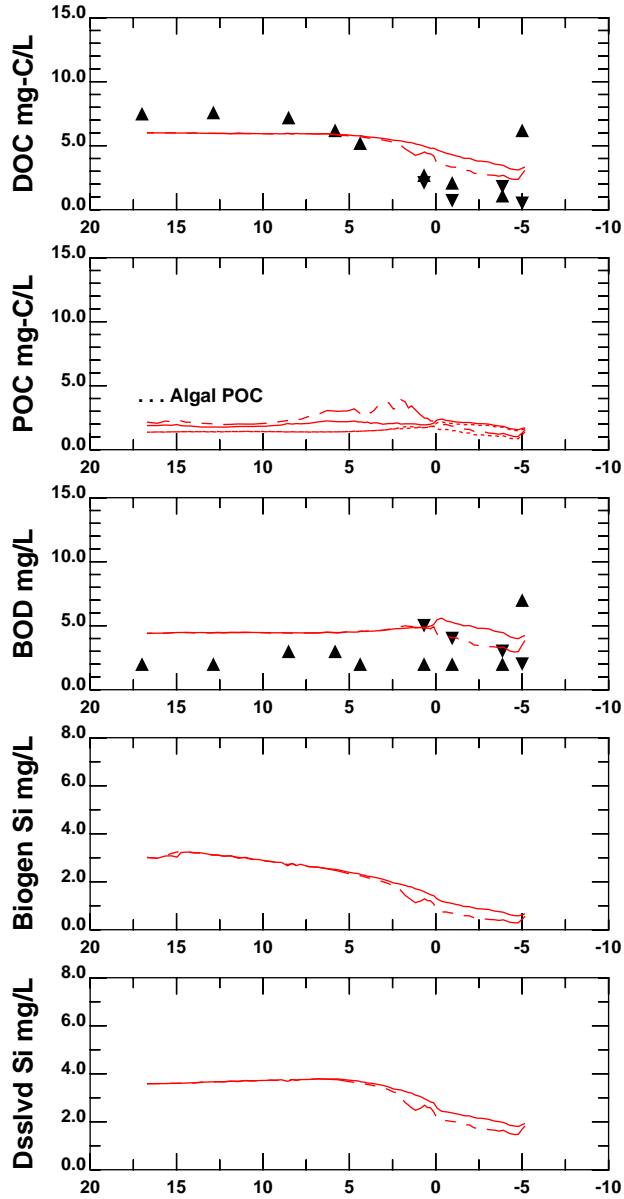
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

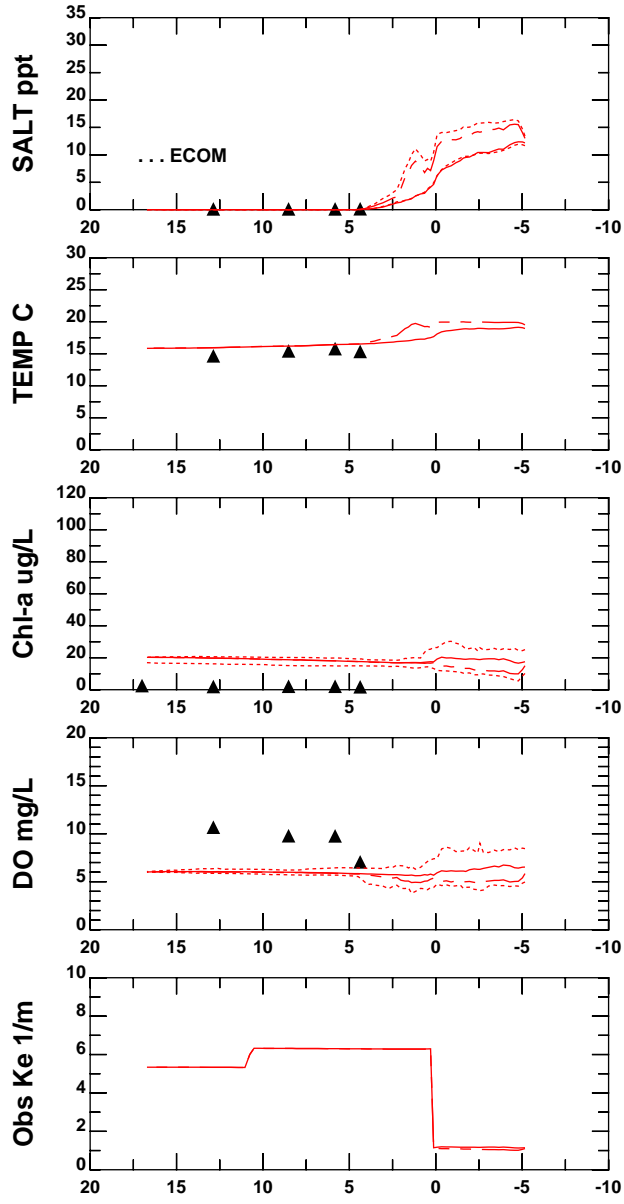
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0304



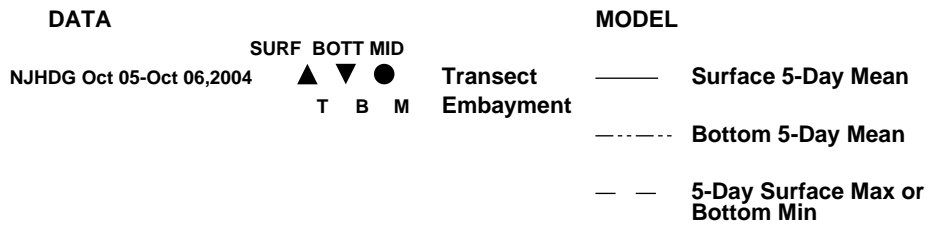
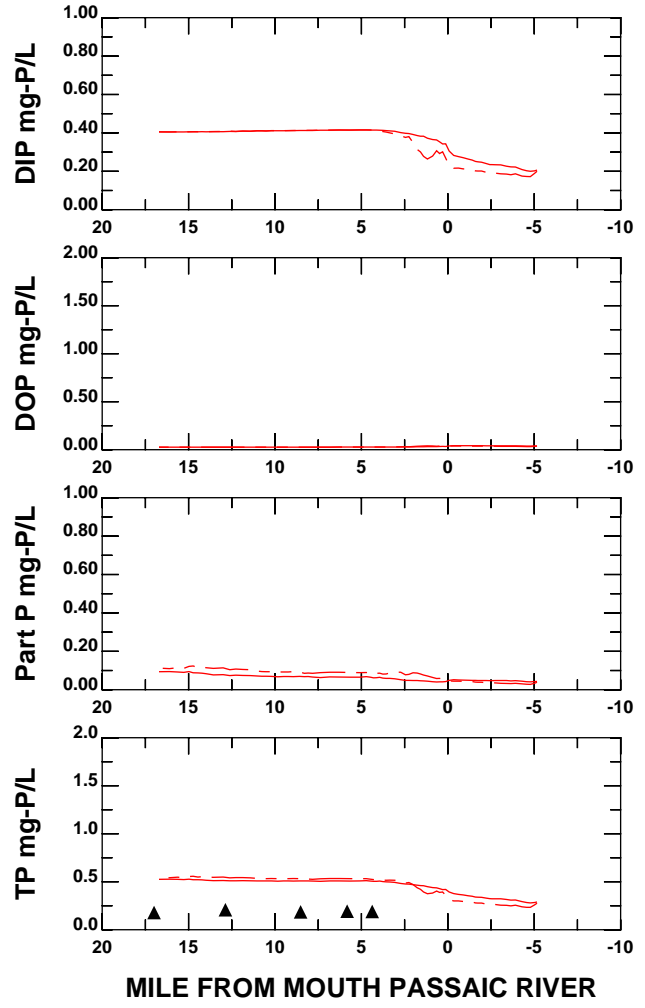
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

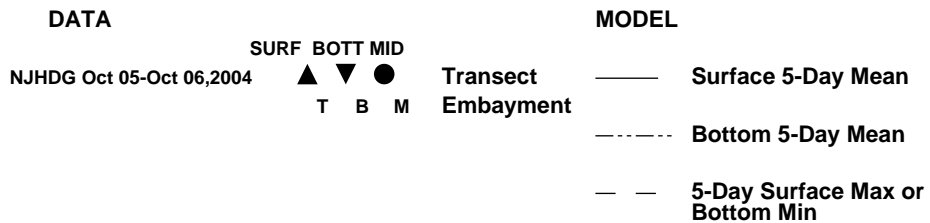
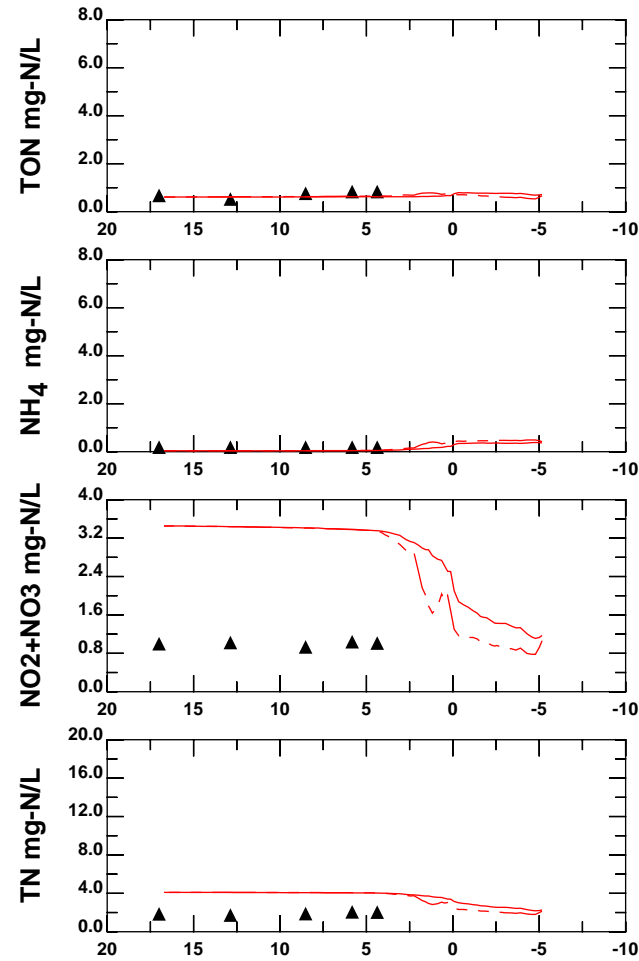
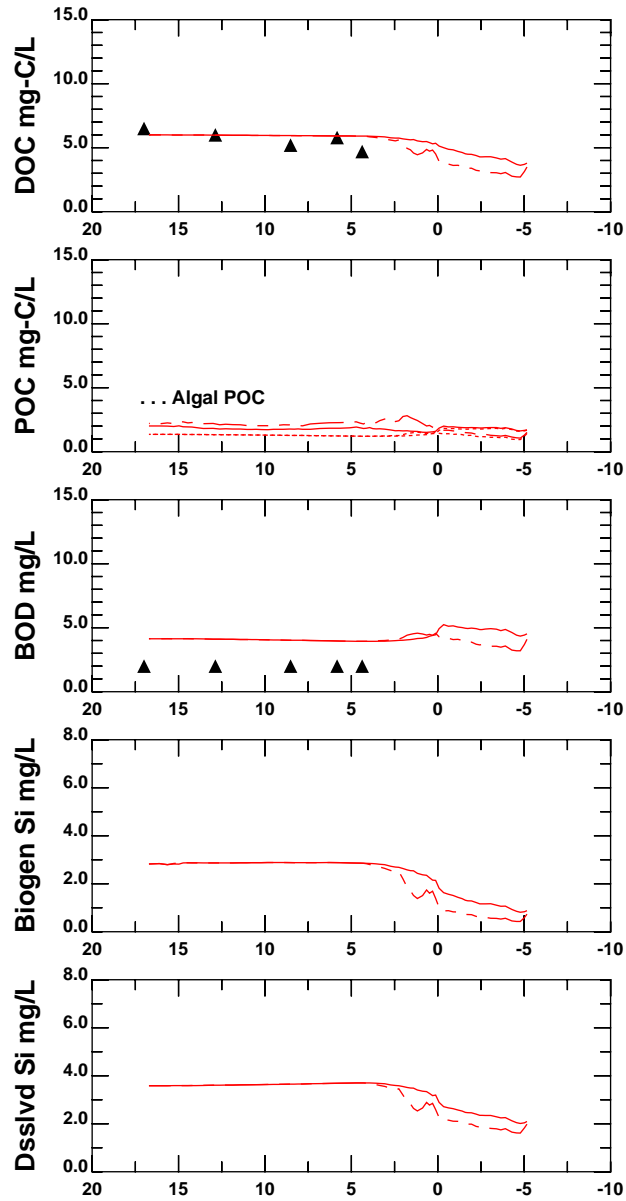


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0304

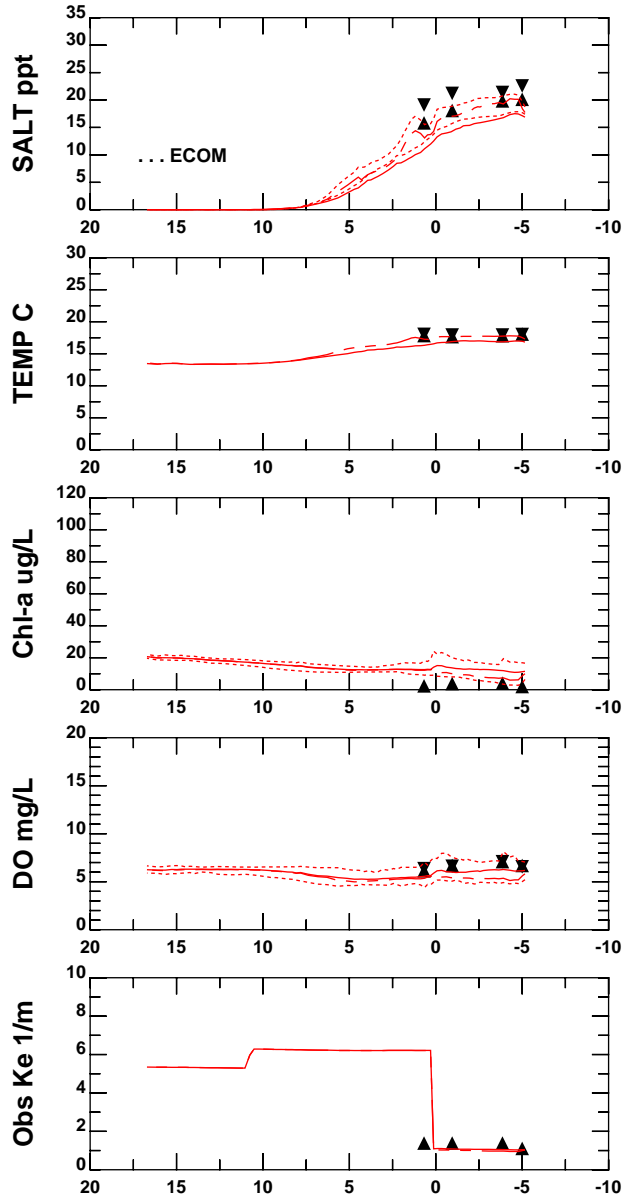


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



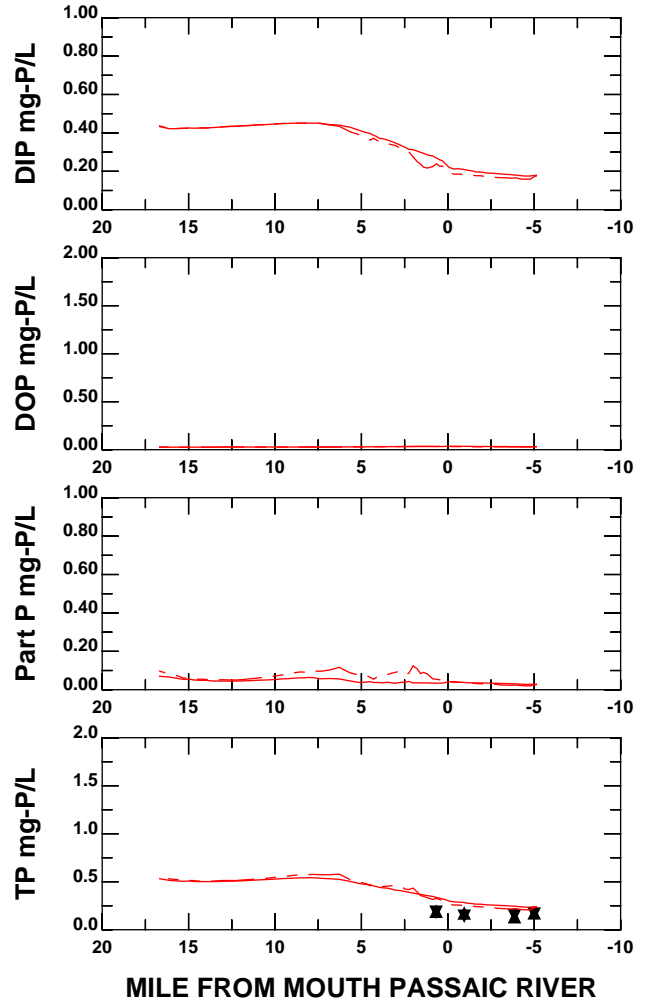


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

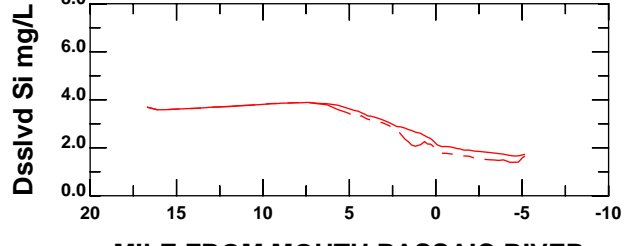
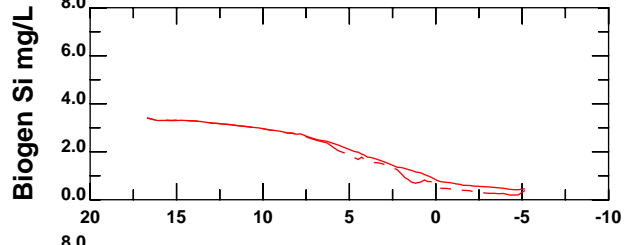
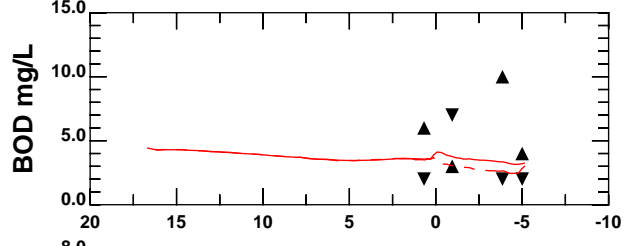
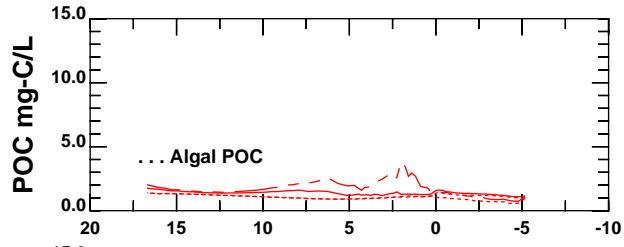
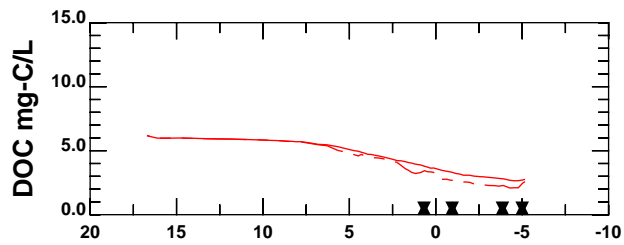


DATA  
 NJHDG Oct 14,2004

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

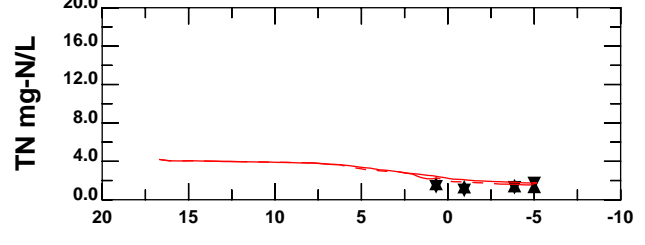
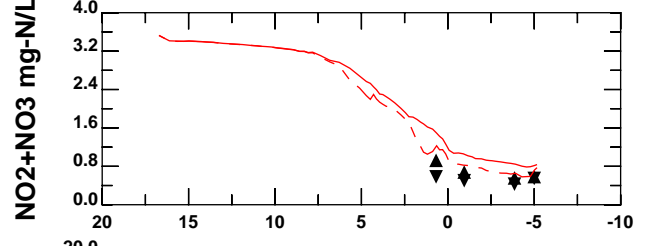
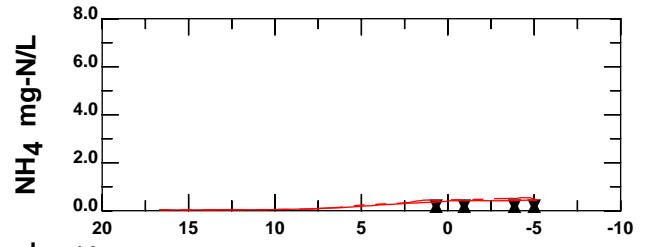
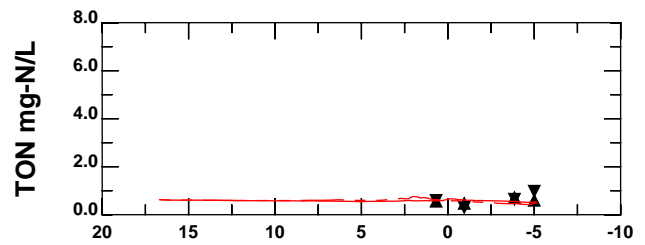
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



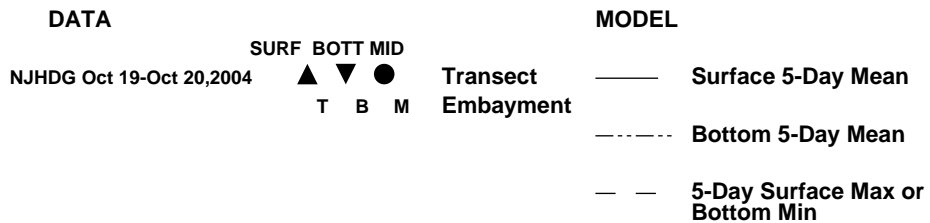
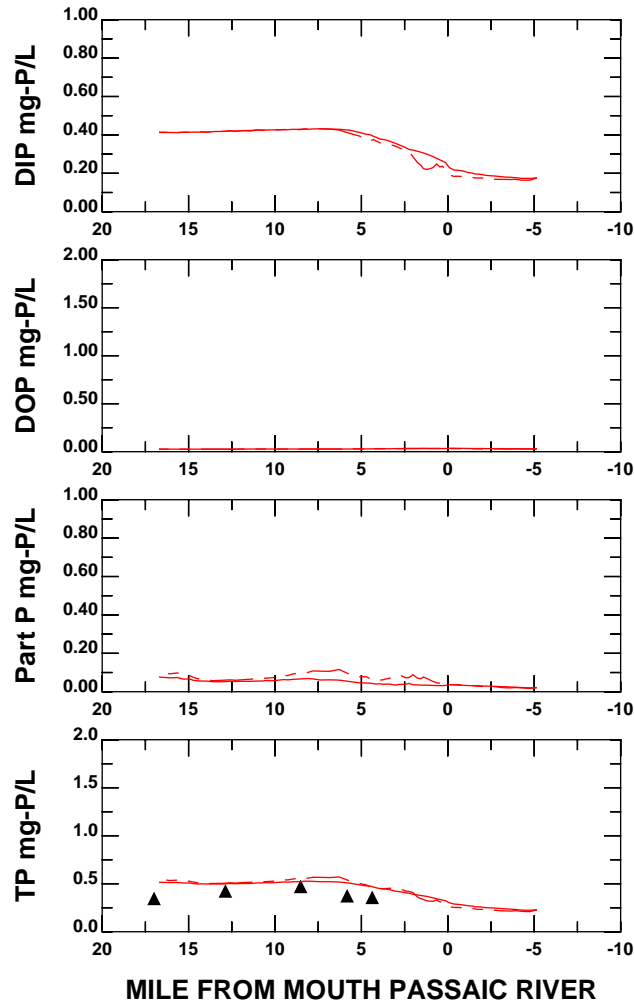
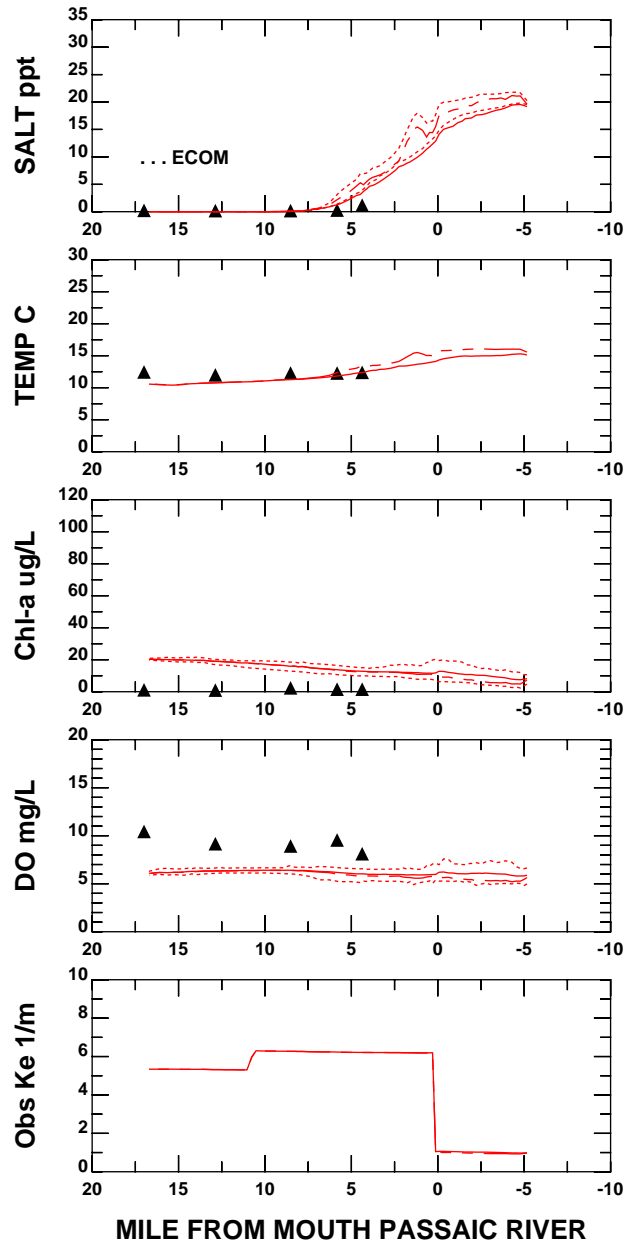
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Oct 14,2004

MODEL

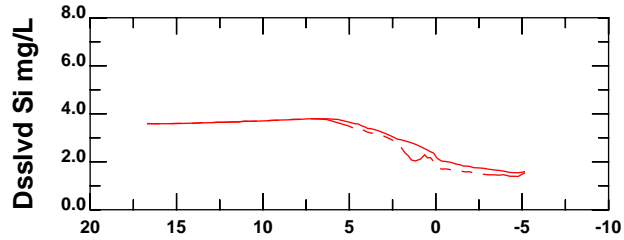
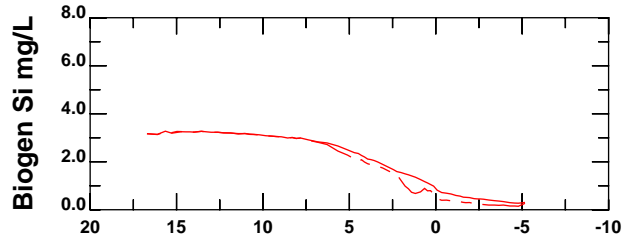
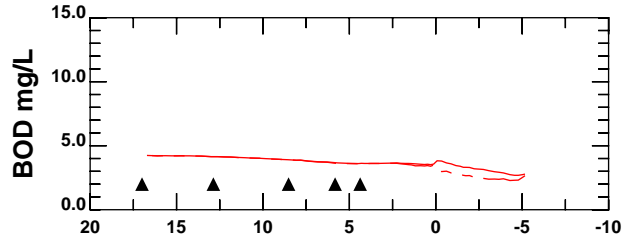
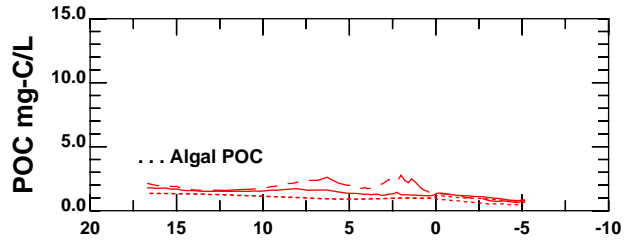
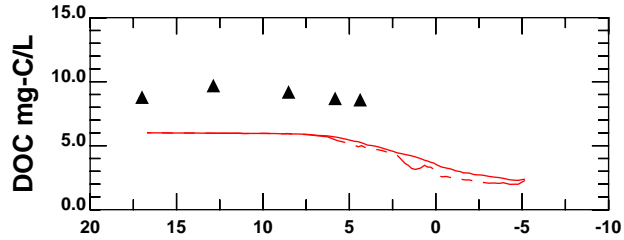
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

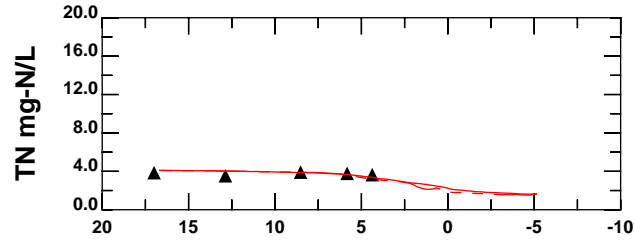
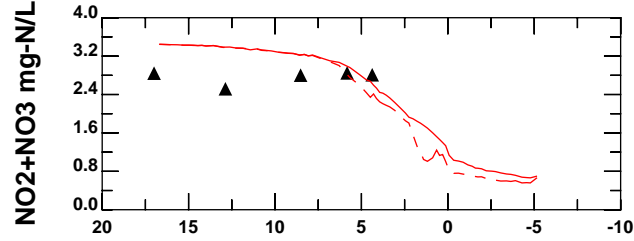
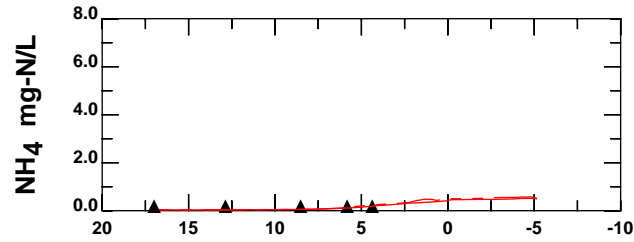
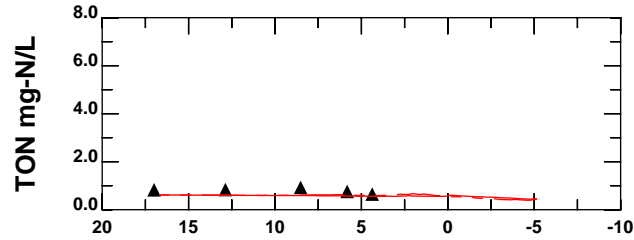


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

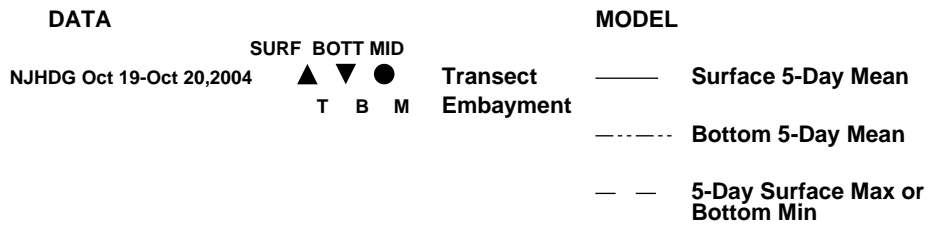




MILE FROM MOUTH PASSAIC RIVER

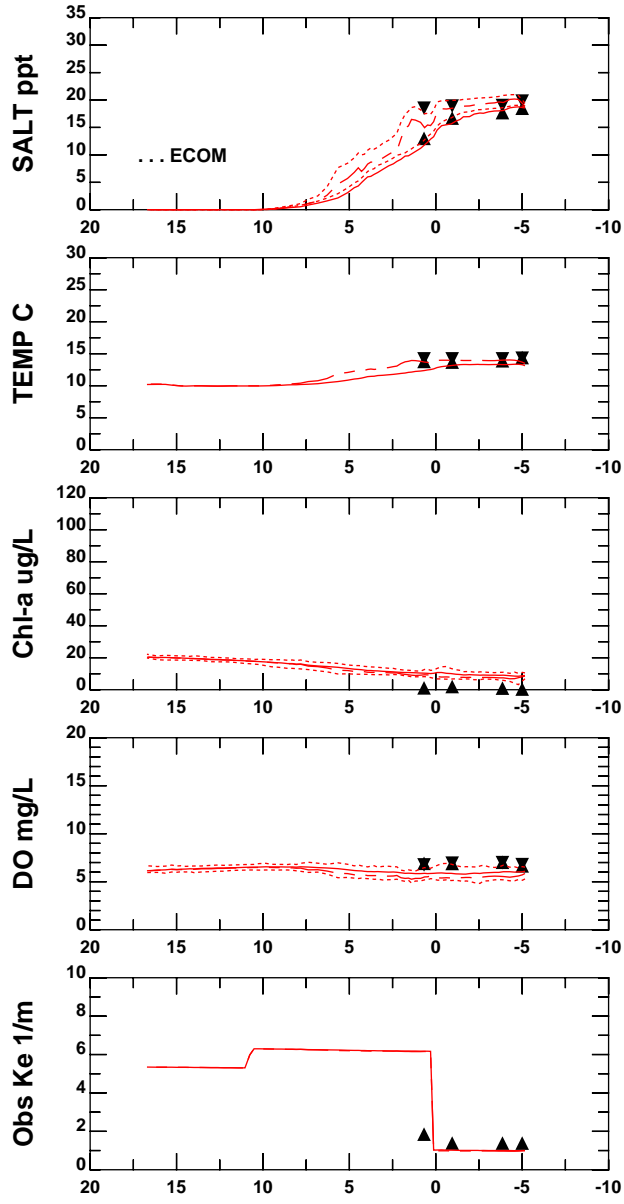


MILE FROM MOUTH PASSAIC RIVER



# PASSAIC RIVER AND NEWARK BAY

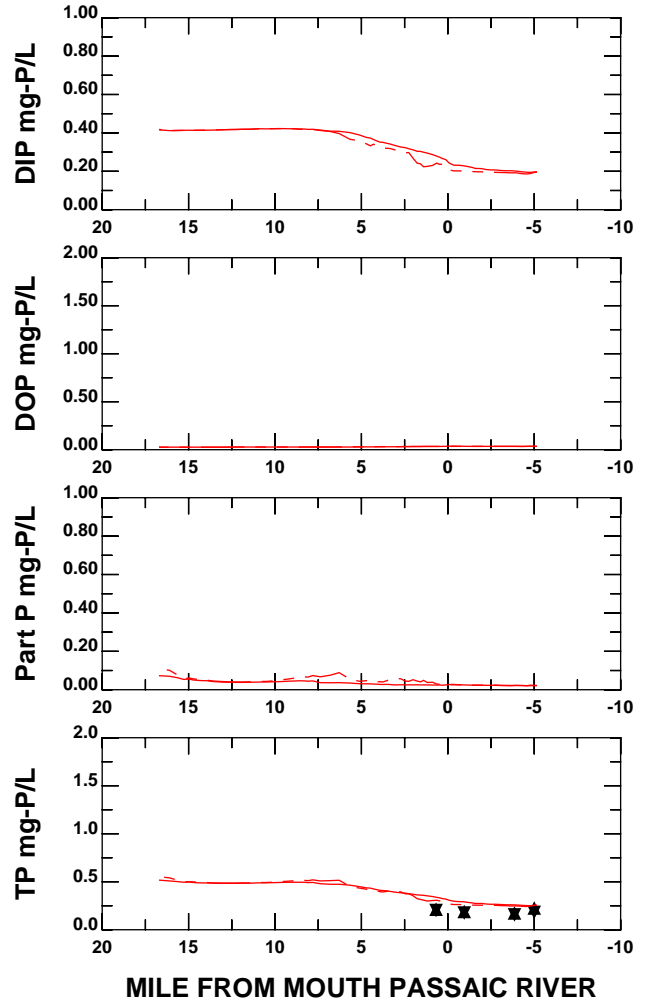
RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405

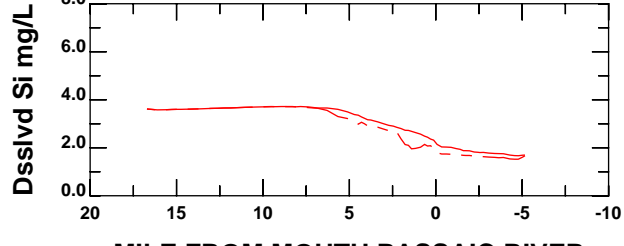
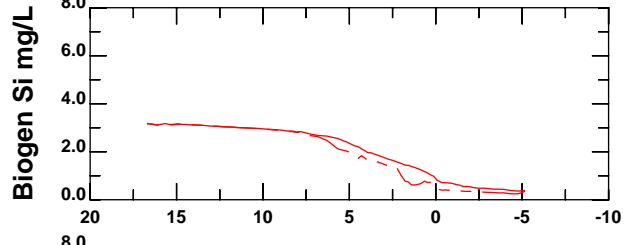
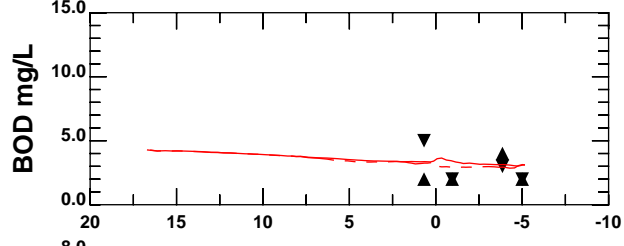
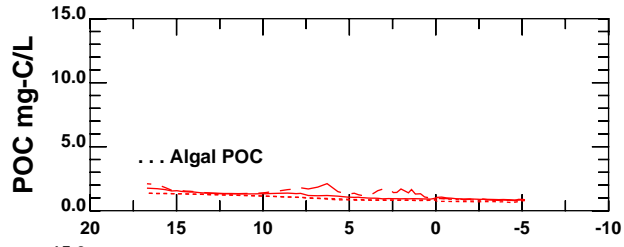
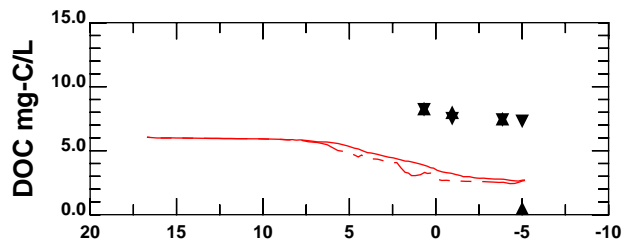


DATA  
NJHDG Oct 26,2004

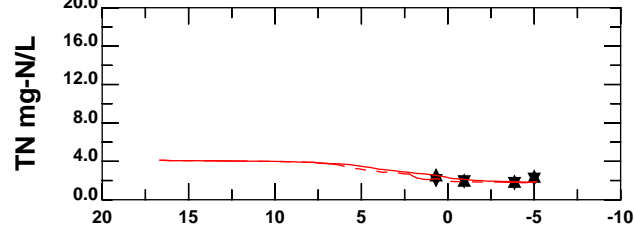
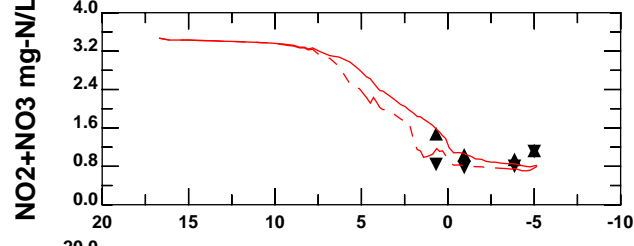
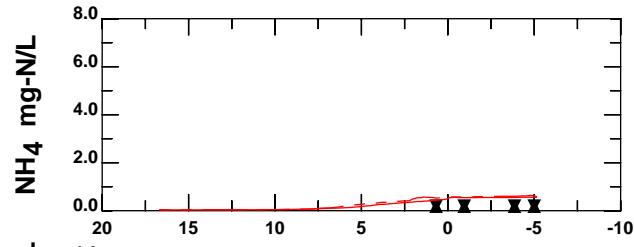
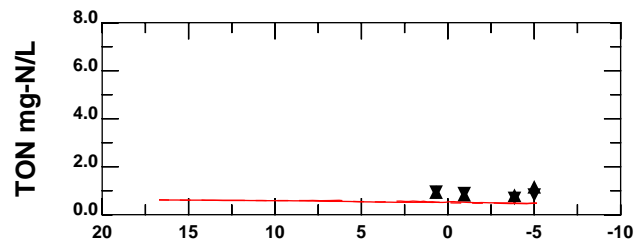
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Oct 26, 2004

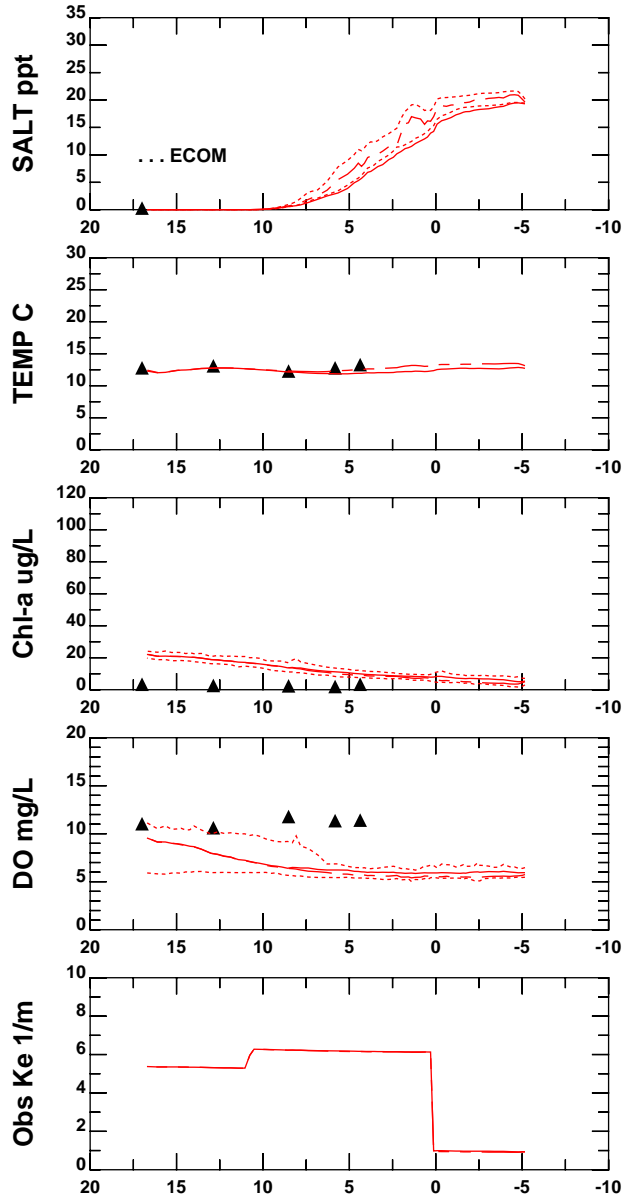
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

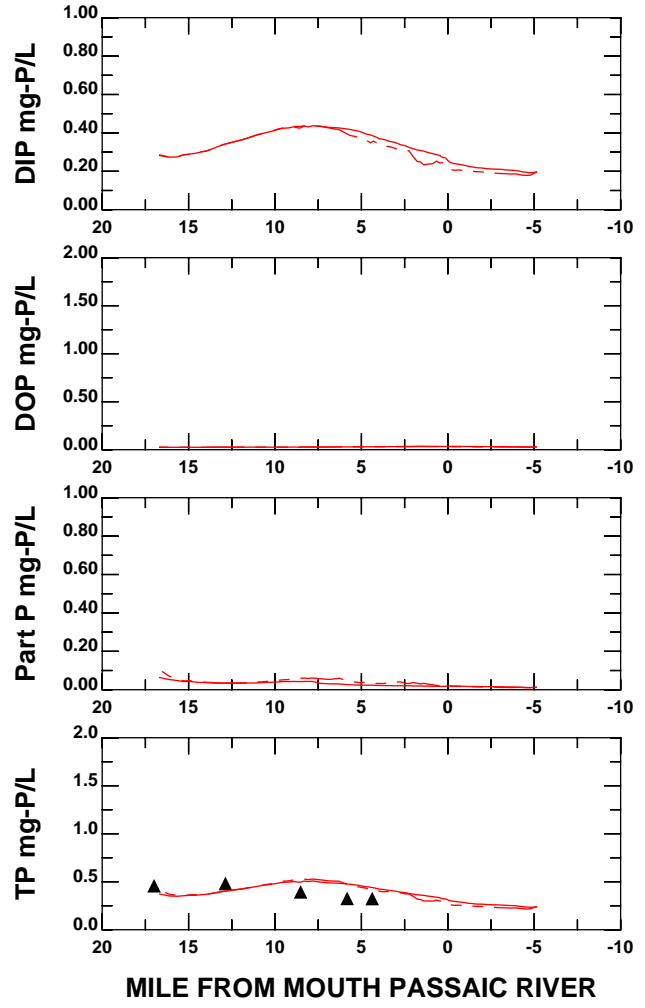
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405



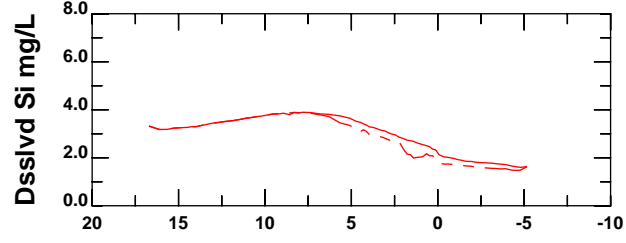
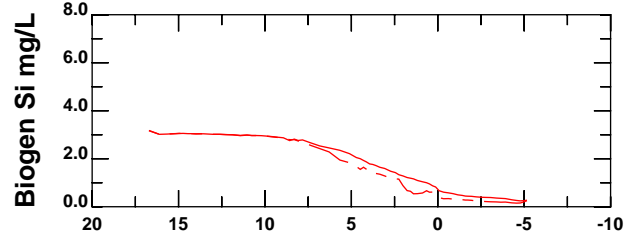
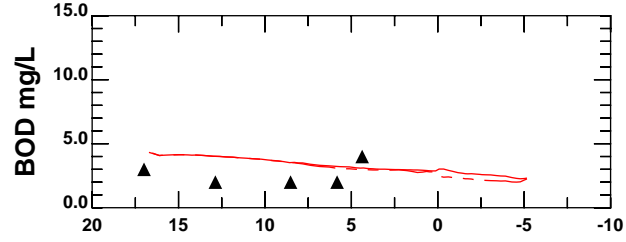
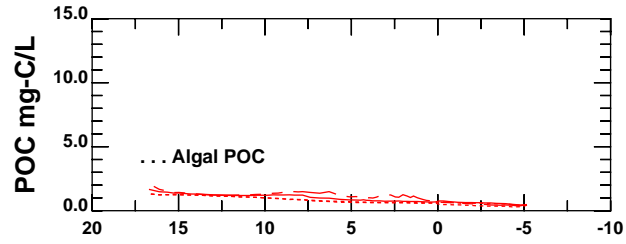
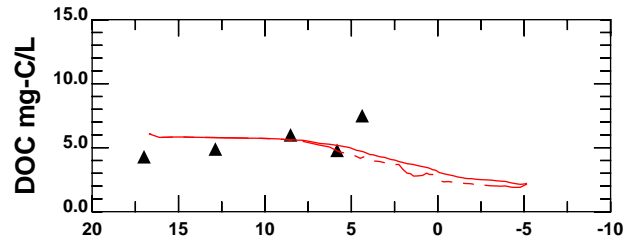
DATA  
NJHDG Nov 03,2004

MODEL

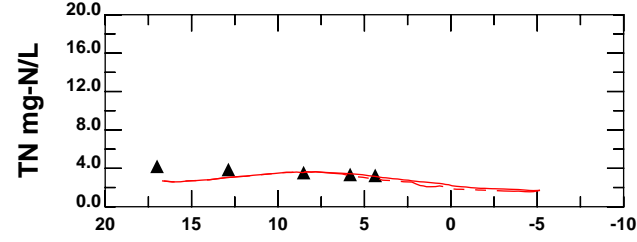
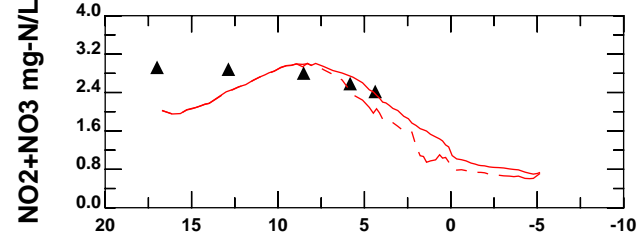
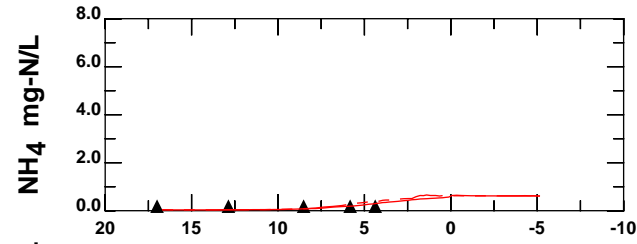
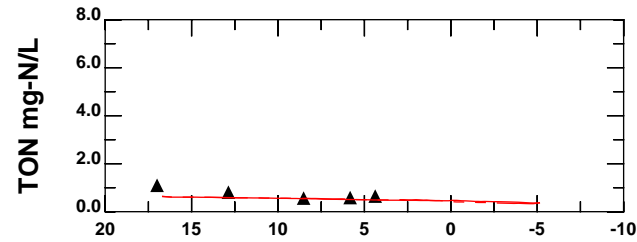
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Nov 03,2004

SURF BOTT MID

▲ ▼ ●  
T B M

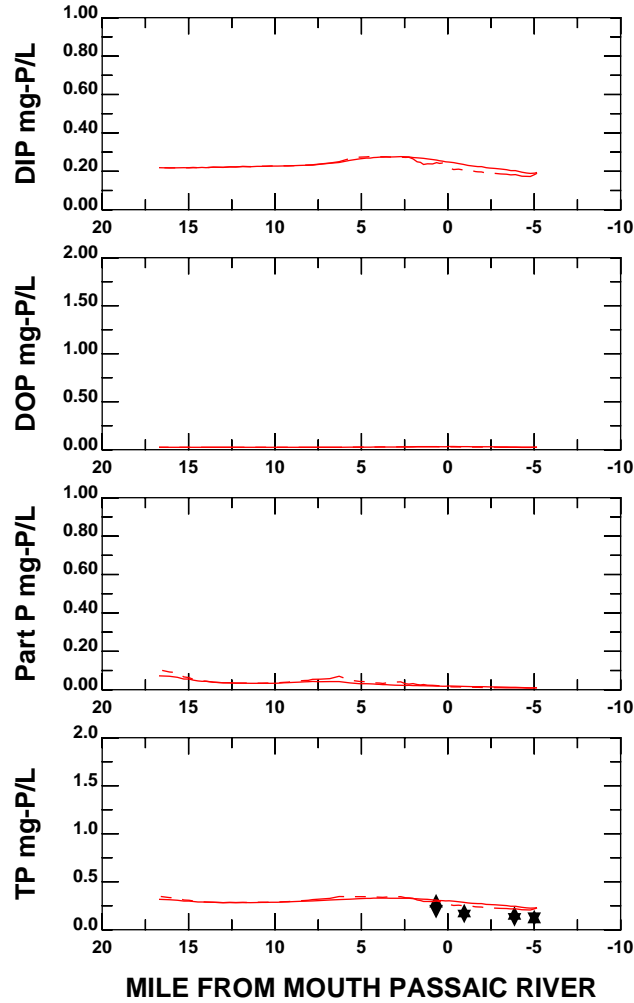
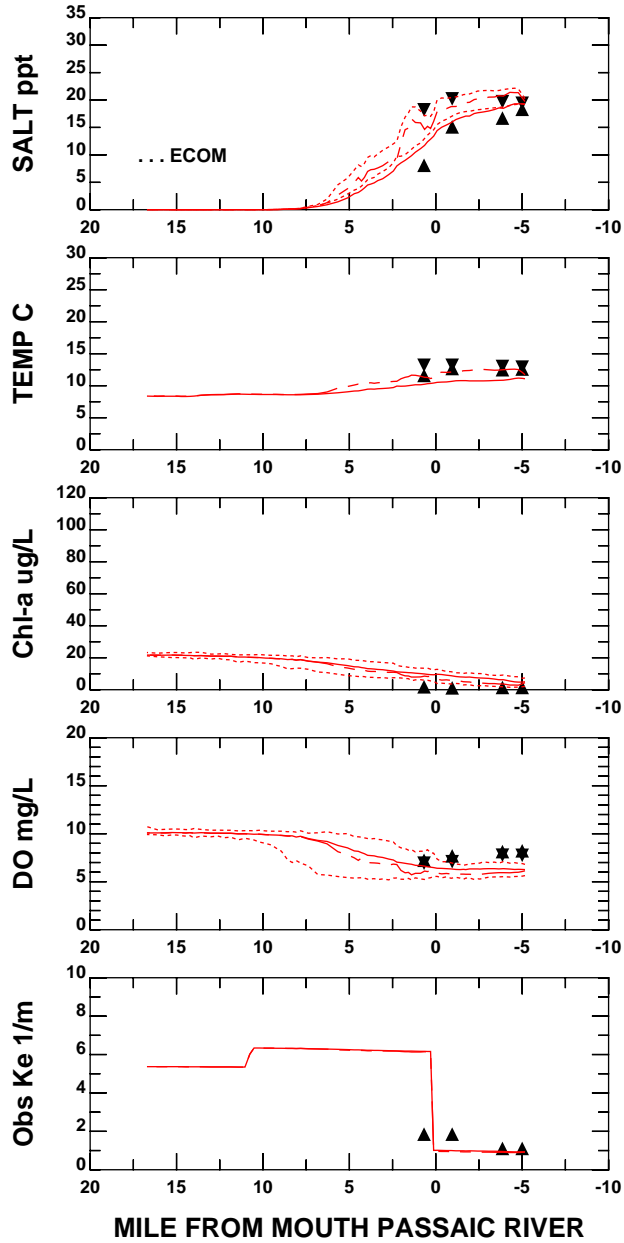
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

# PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



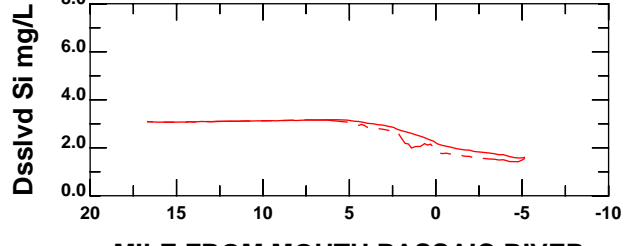
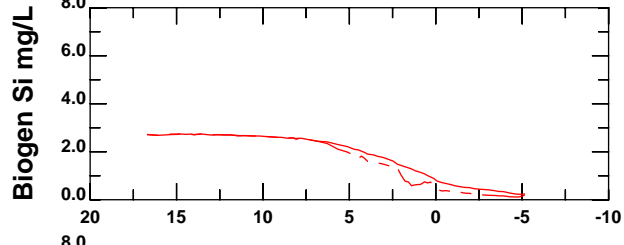
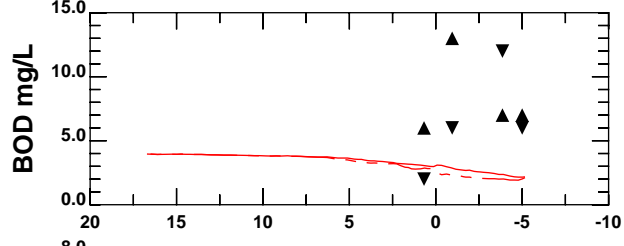
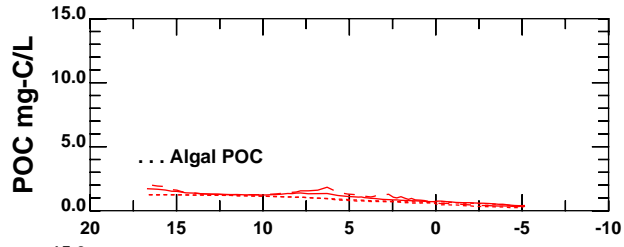
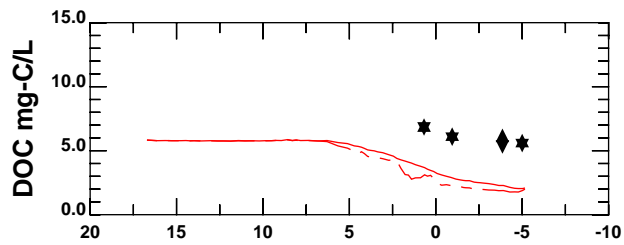
**DATA**  
NJHDG Nov 08,2004

**MODEL**

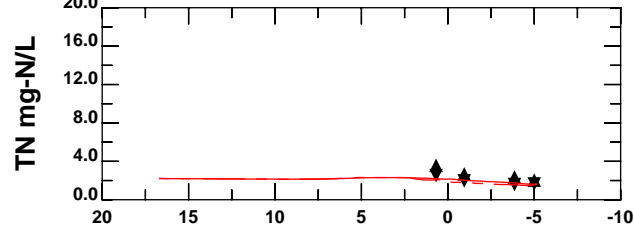
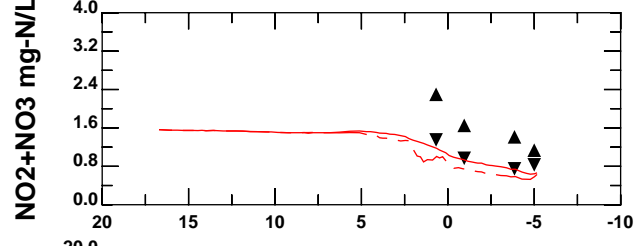
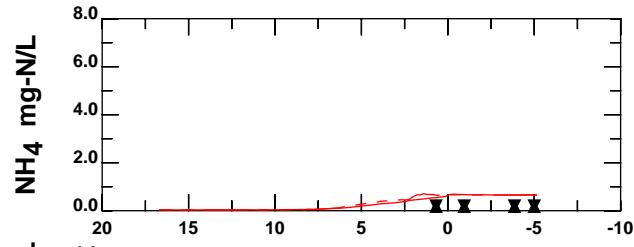
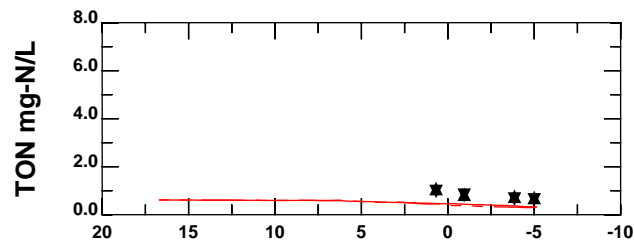
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Nov 08,2004

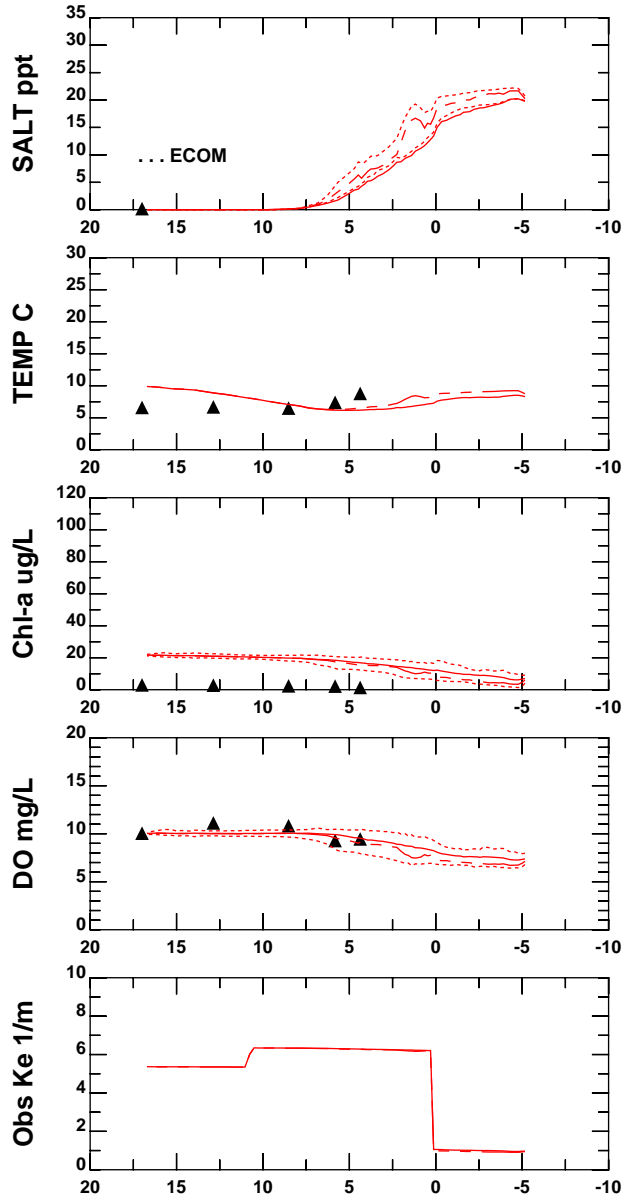
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

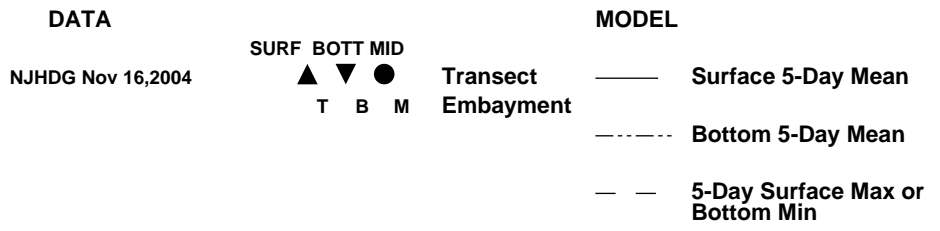
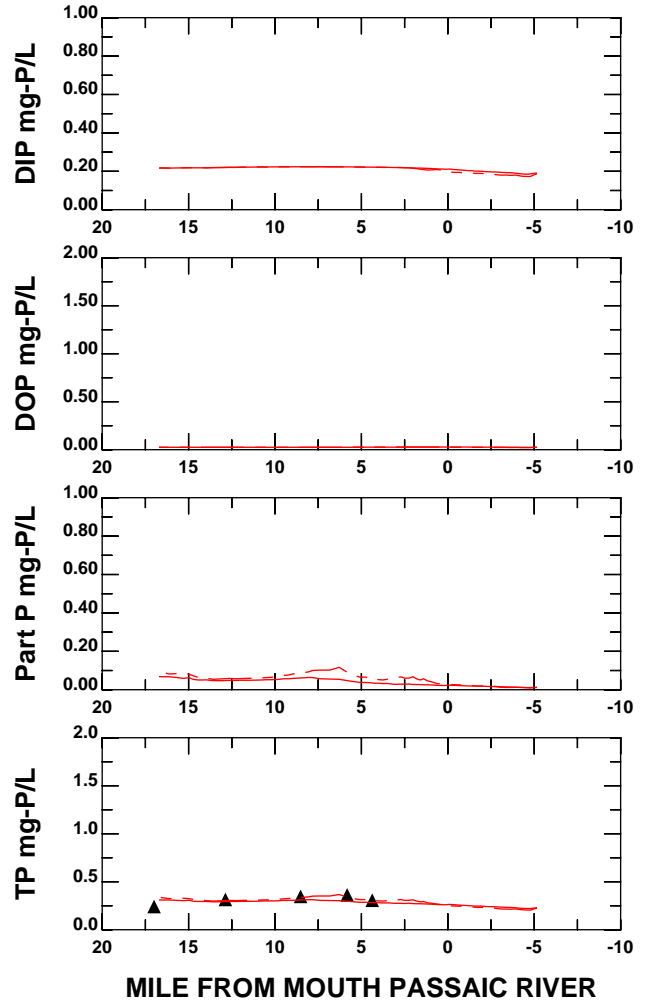
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405

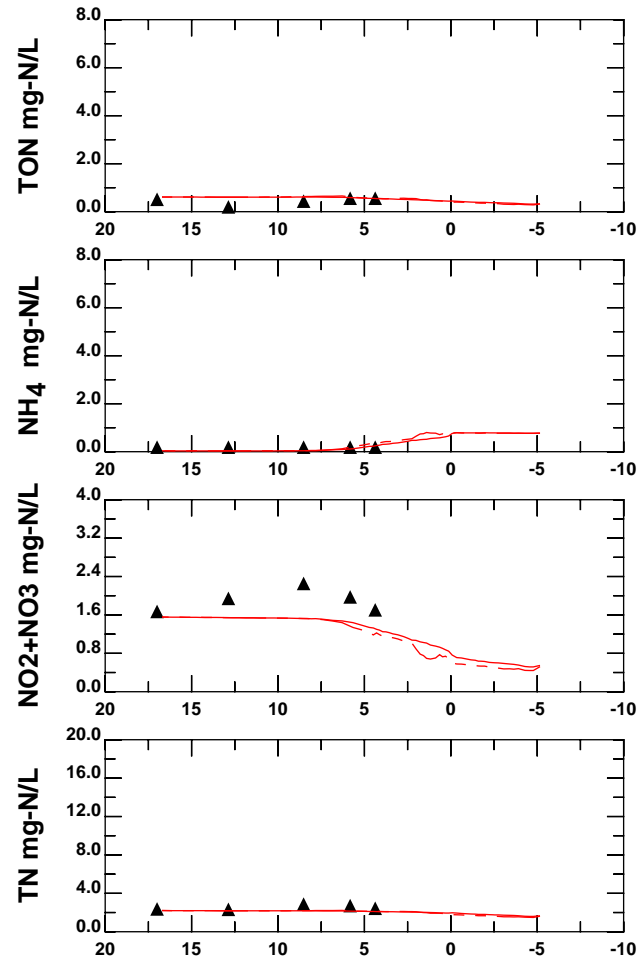
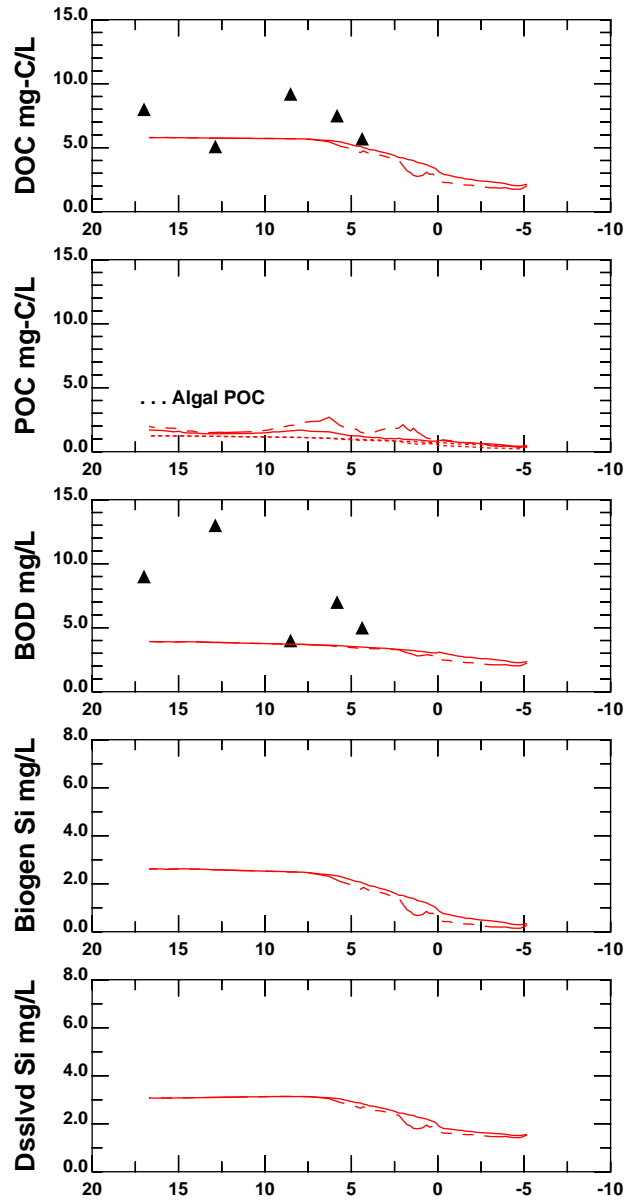


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405







**DATA**

NJHDG Nov 16,2004

SURF BOTT MID

▲ ▼ ●  
T B M

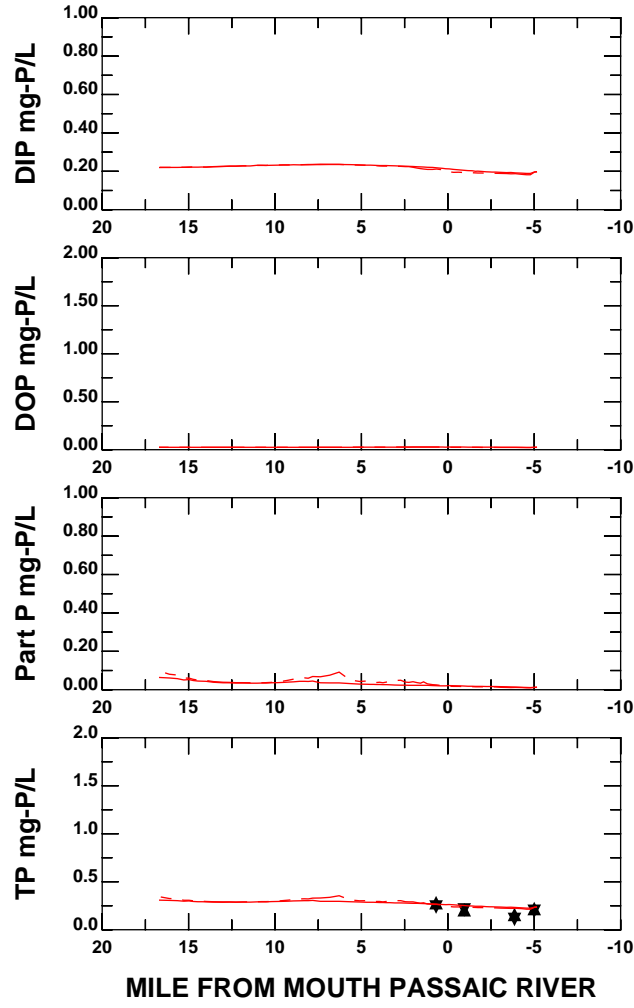
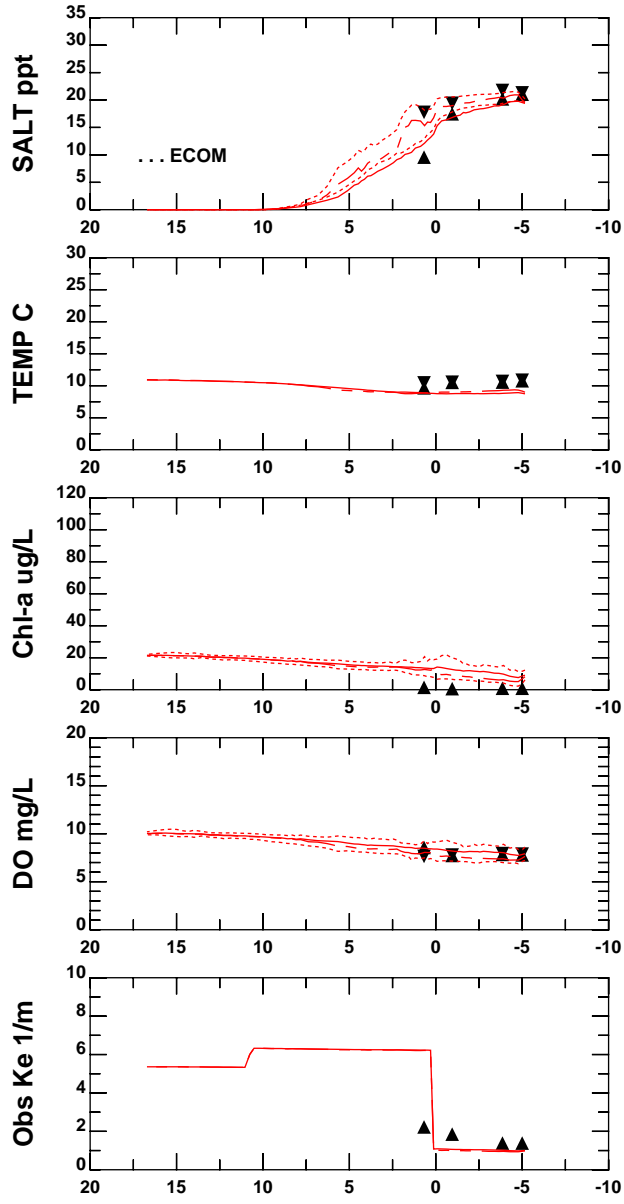
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405



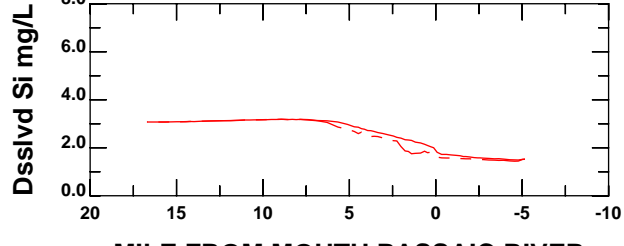
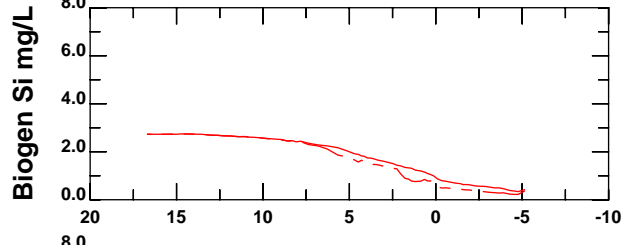
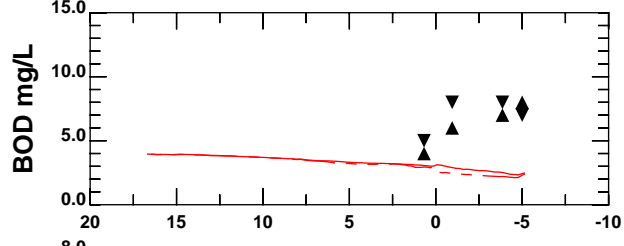
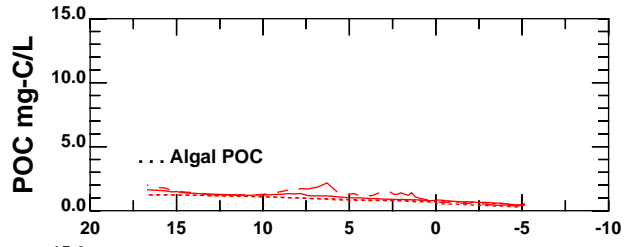
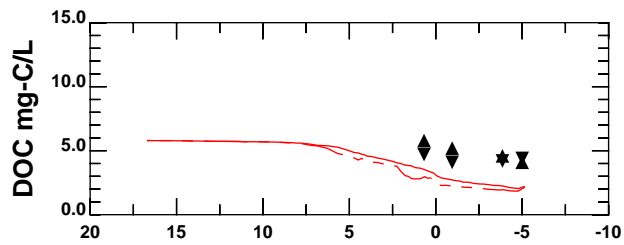
**DATA**  
NJHDG Nov 22,2004

**MODEL**

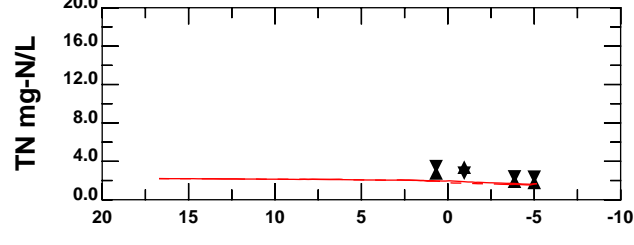
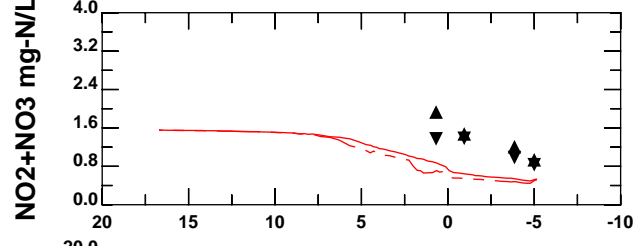
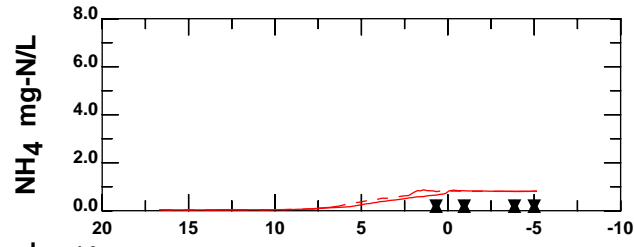
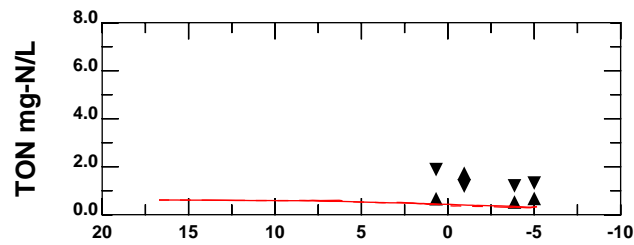
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

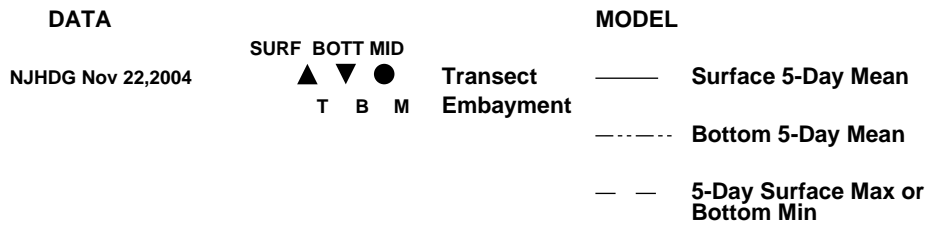
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



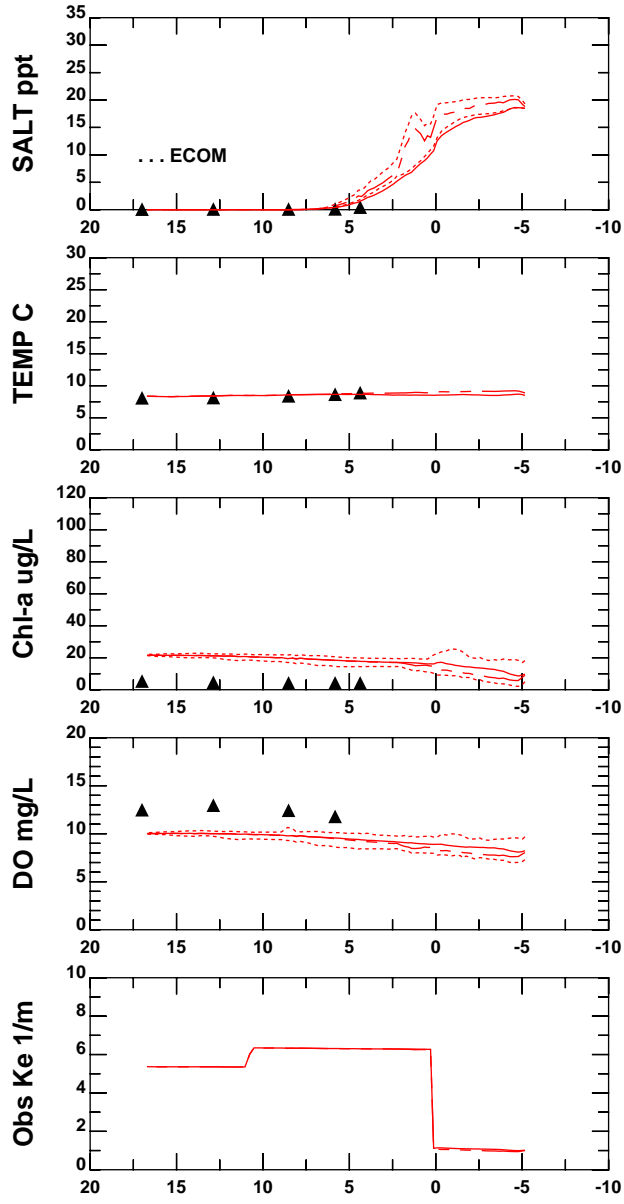
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



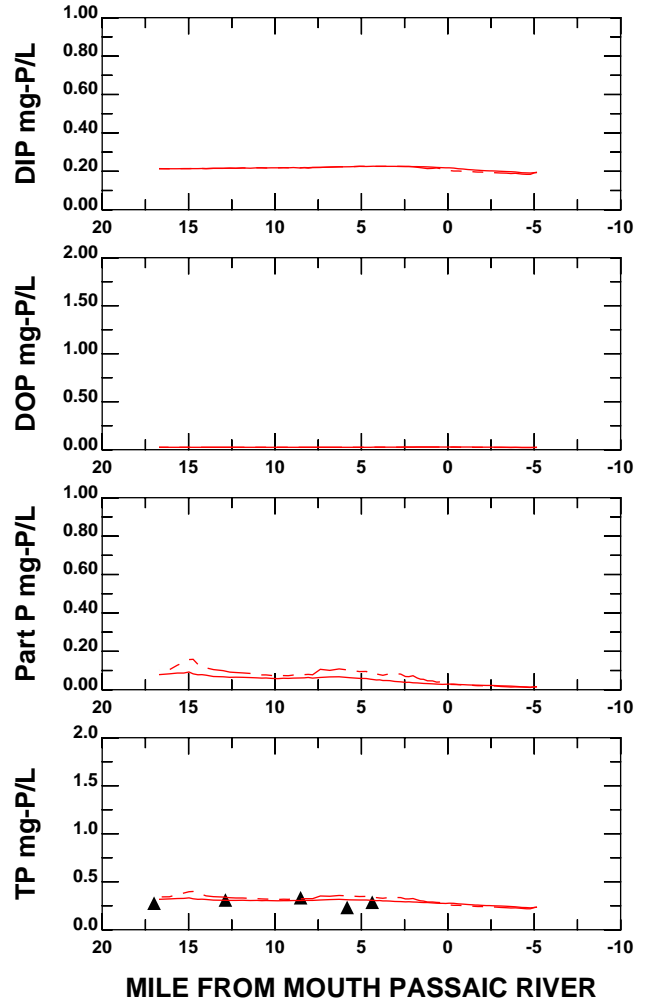
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405

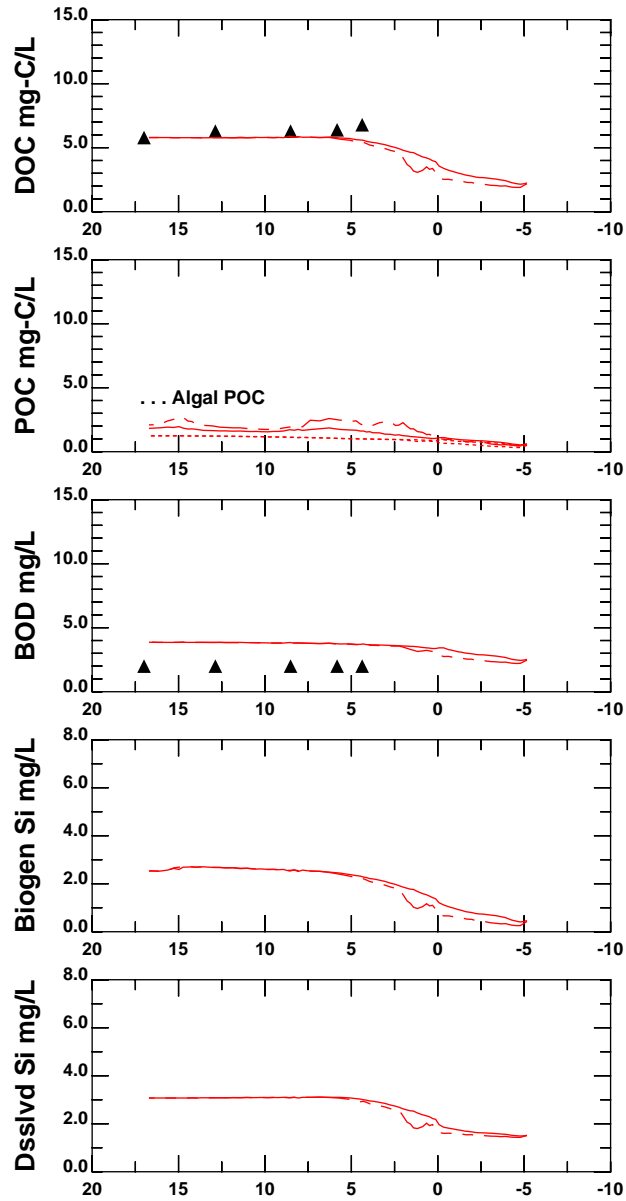


DATA  
NJHDG Nov 30,2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

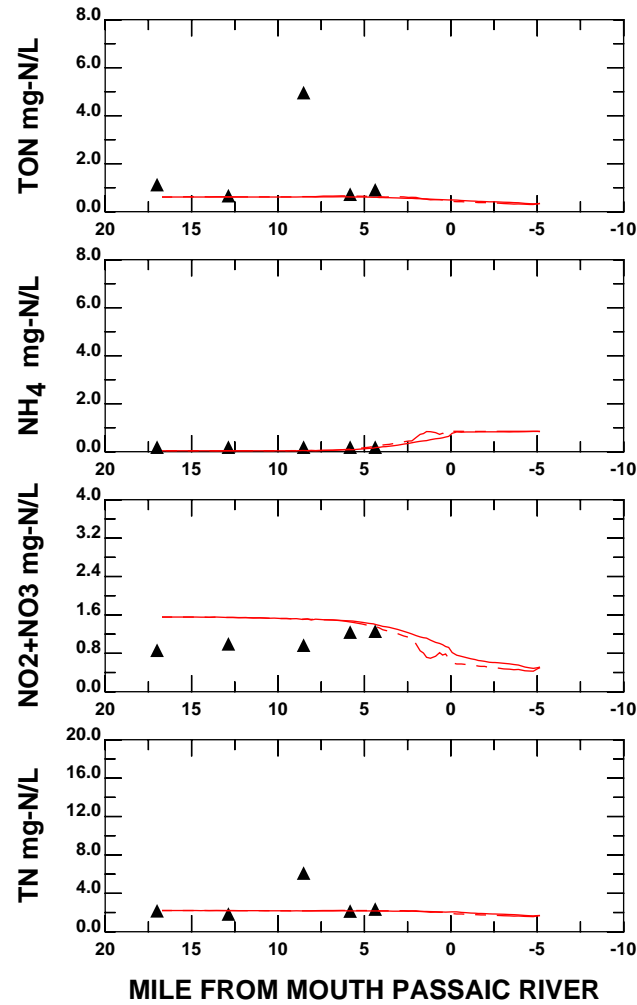
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Nov 30,2004

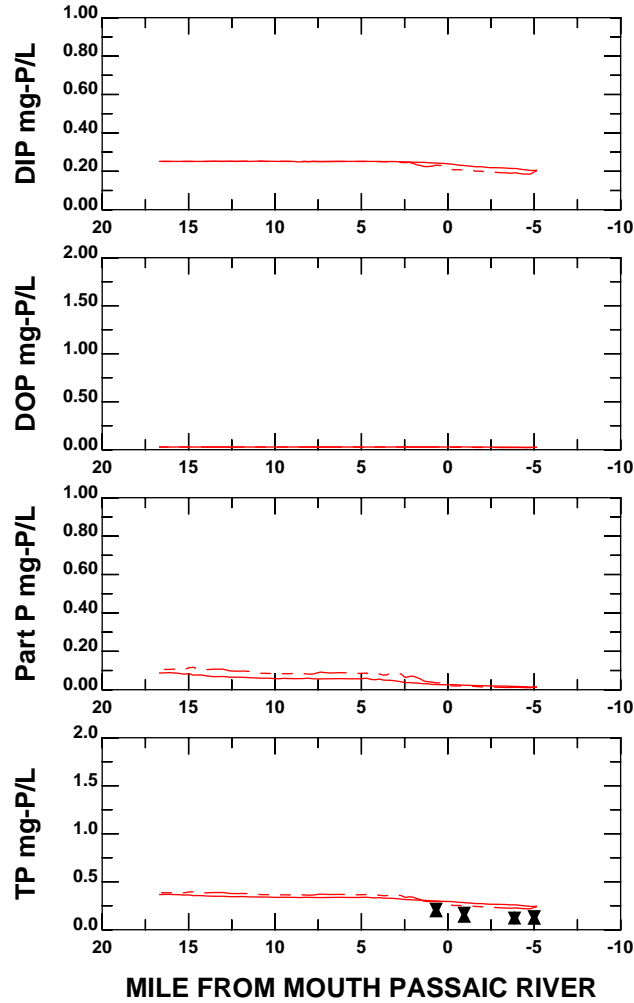
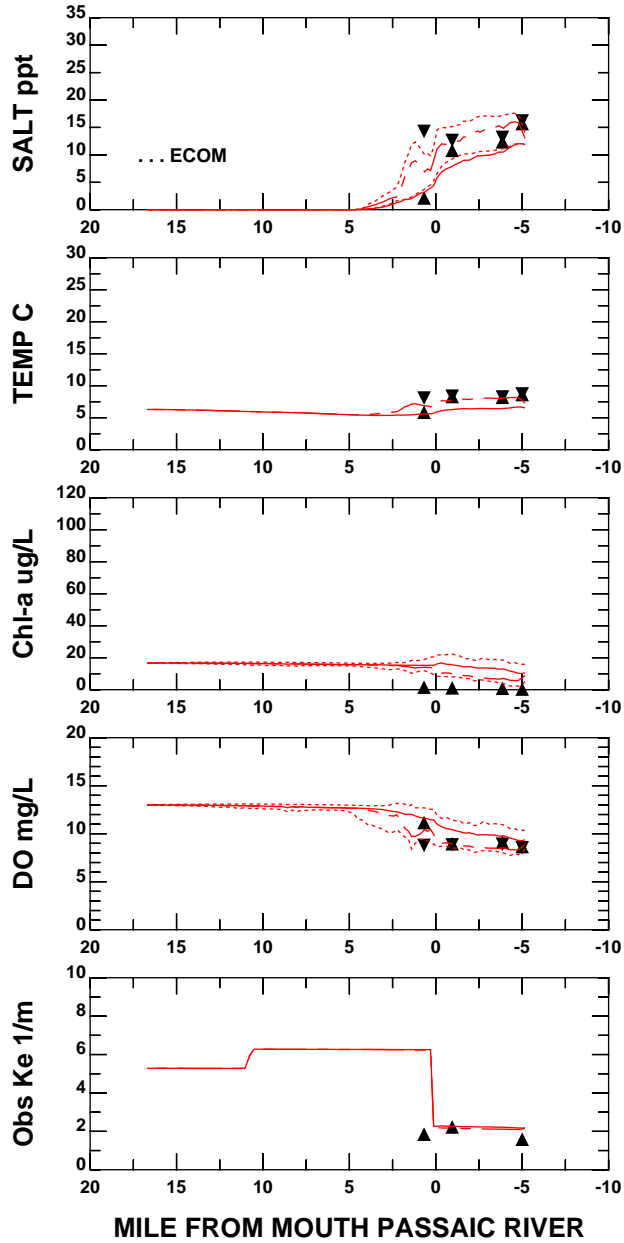
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



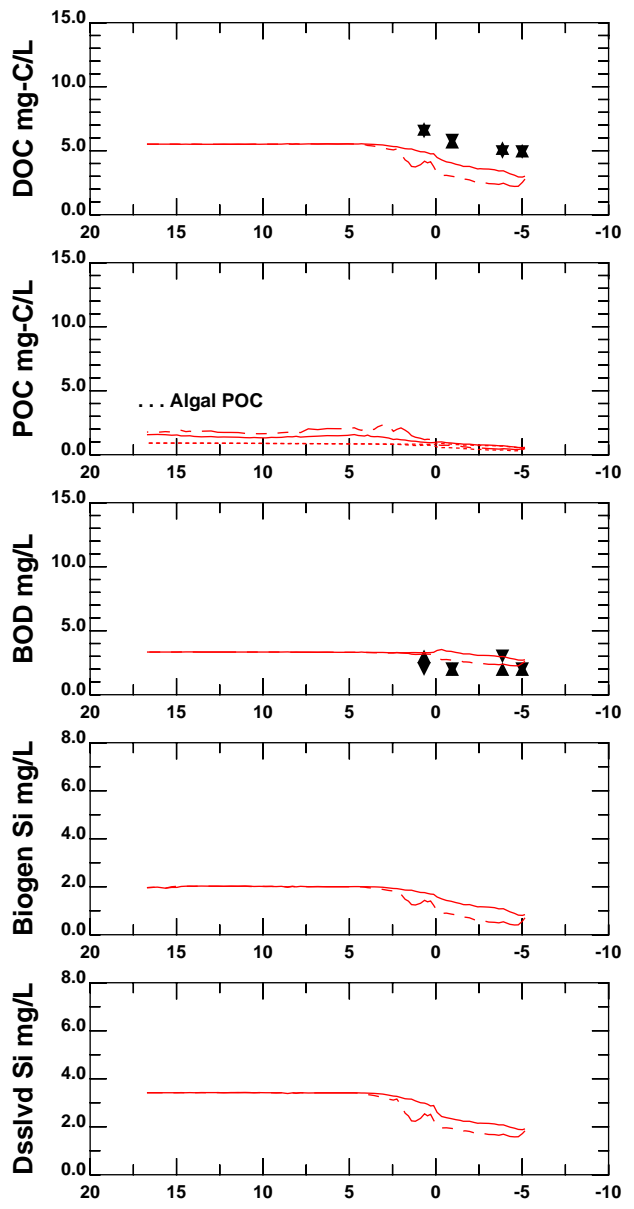
**DATA**  
NJHGD Dec 08,2004

**MODEL**

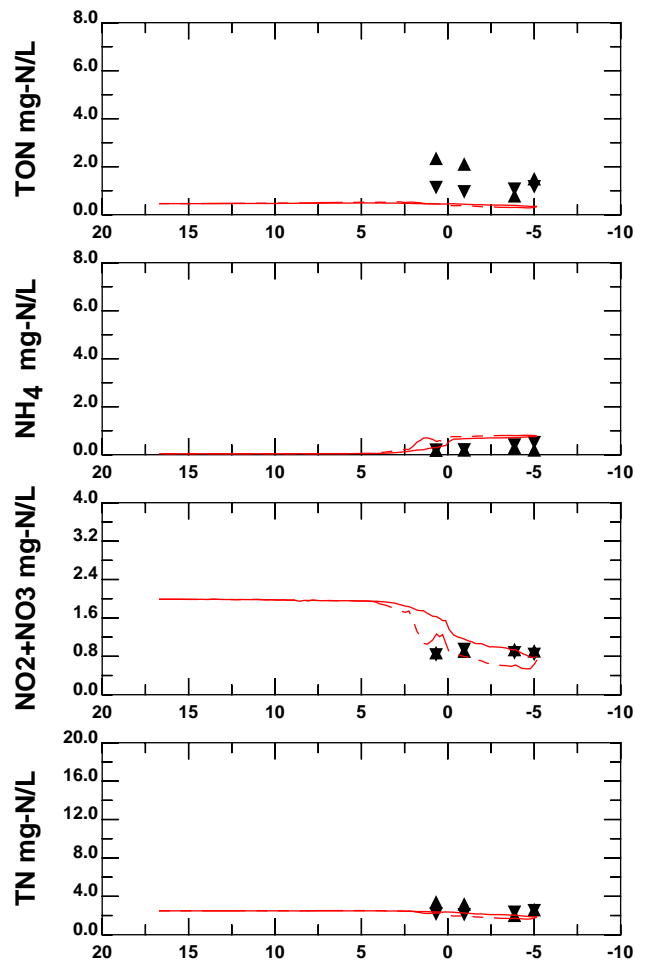
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Dec 08,2004

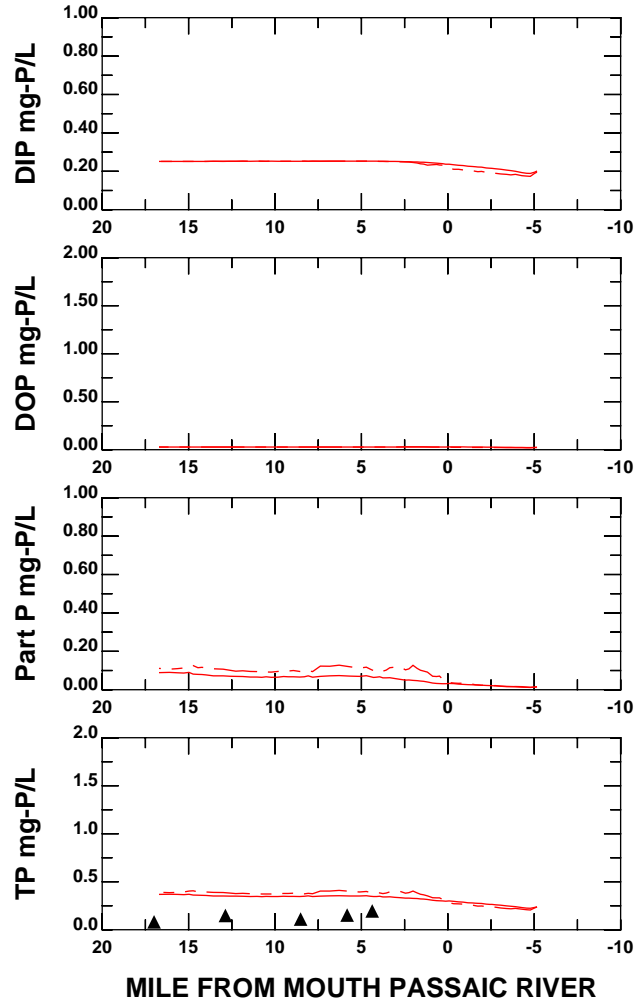
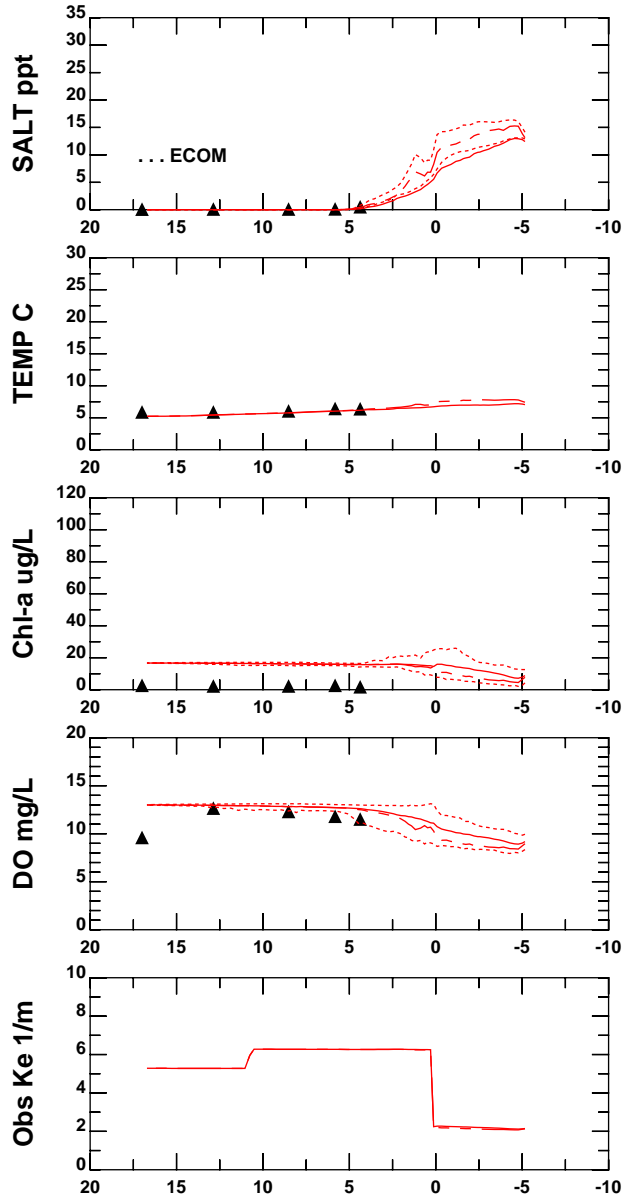
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - . - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**DATA**  
NJHDG Dec 14,2004

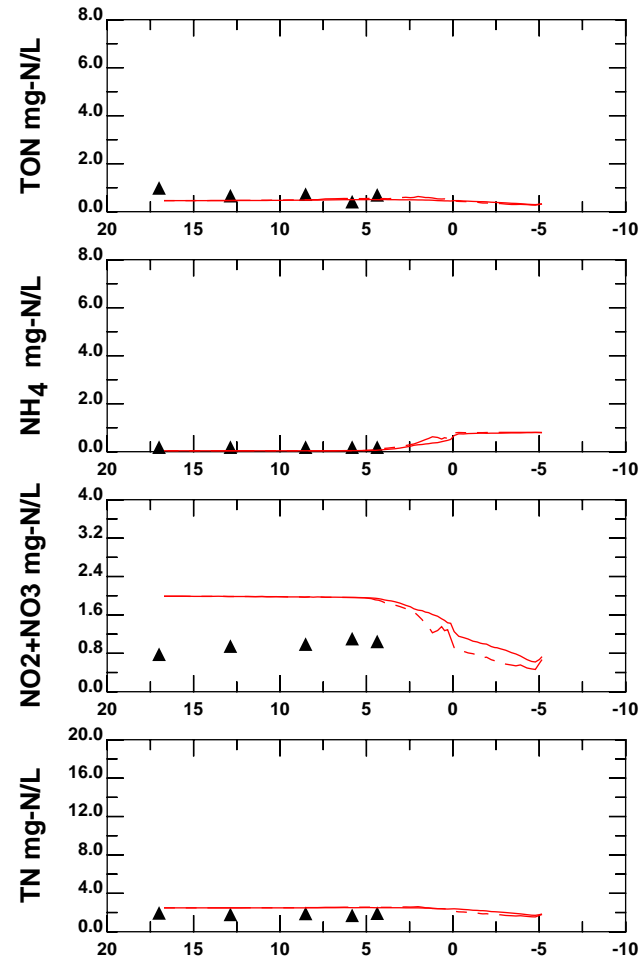
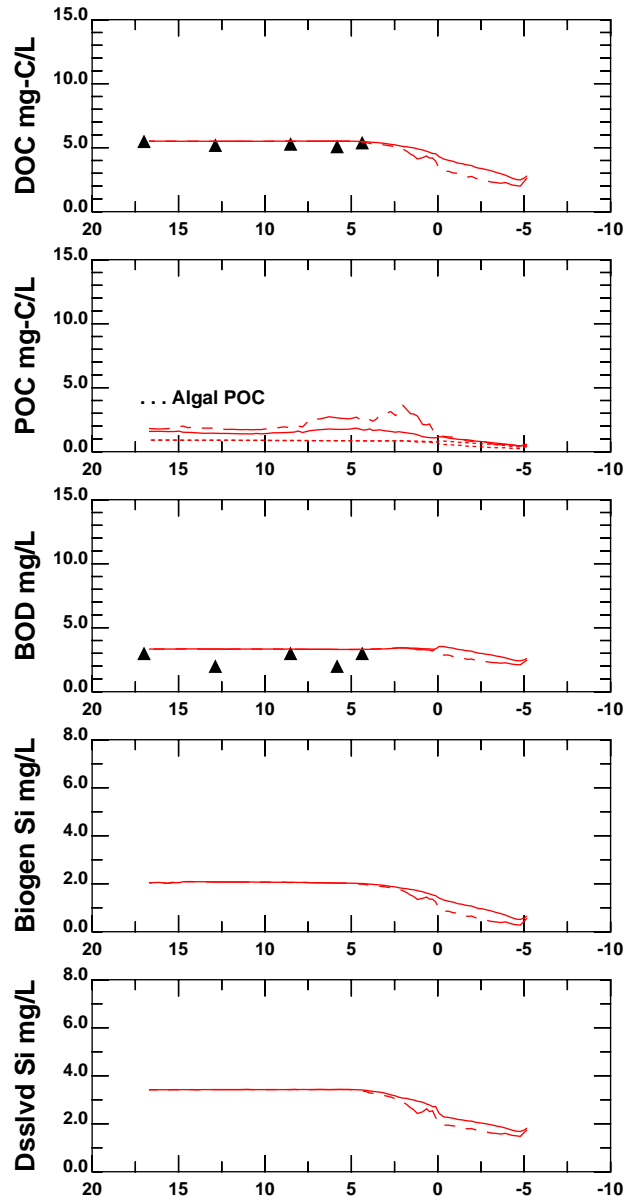
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405





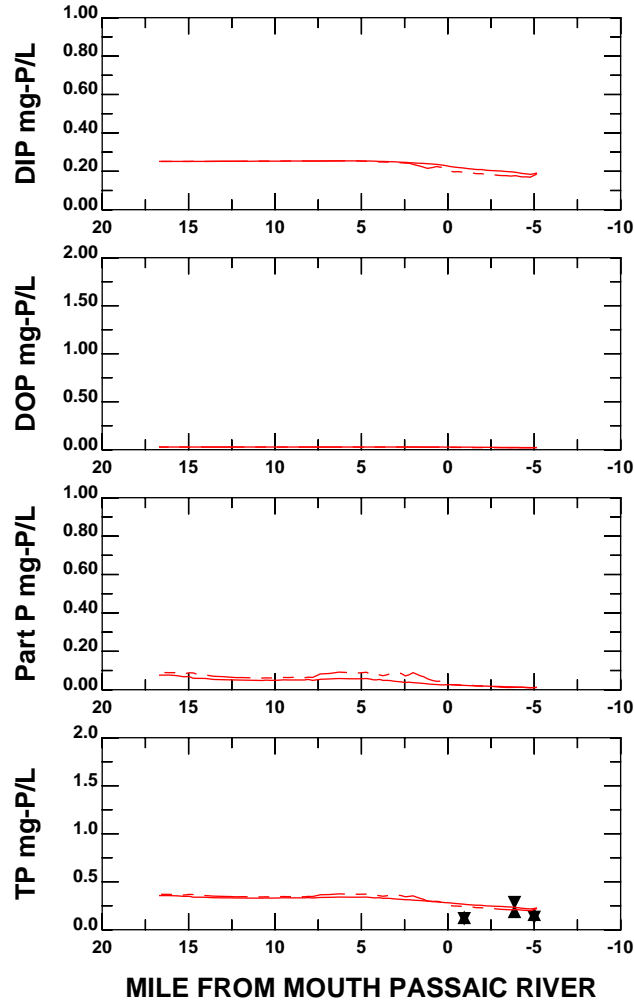
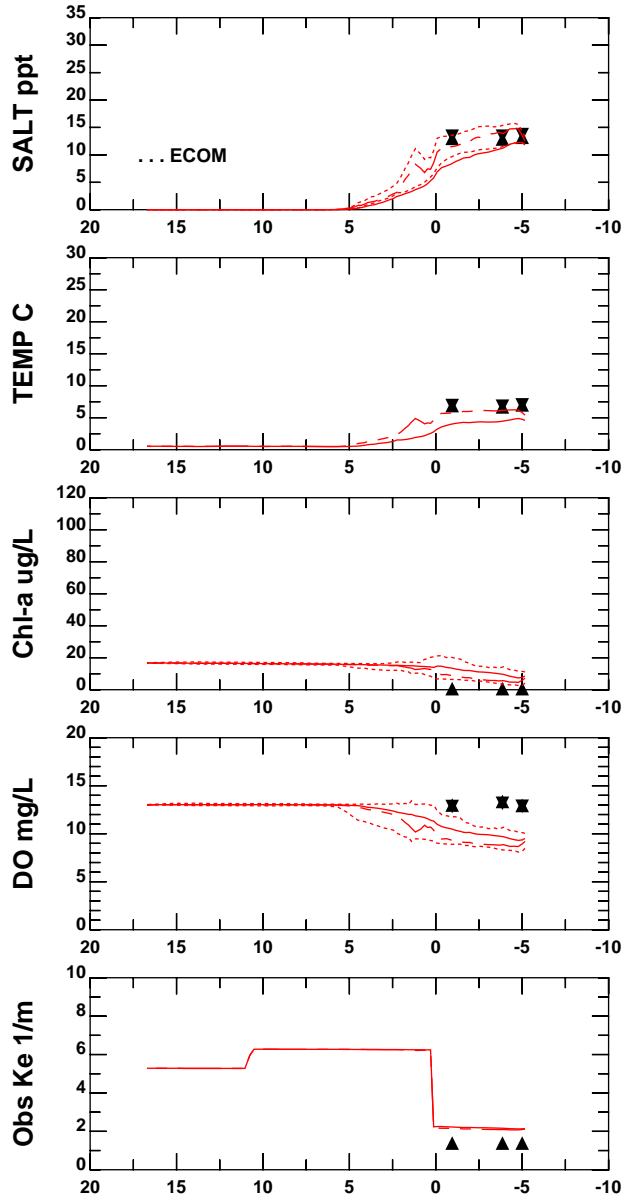
DATA  
NJHGD Dec 14, 2004

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



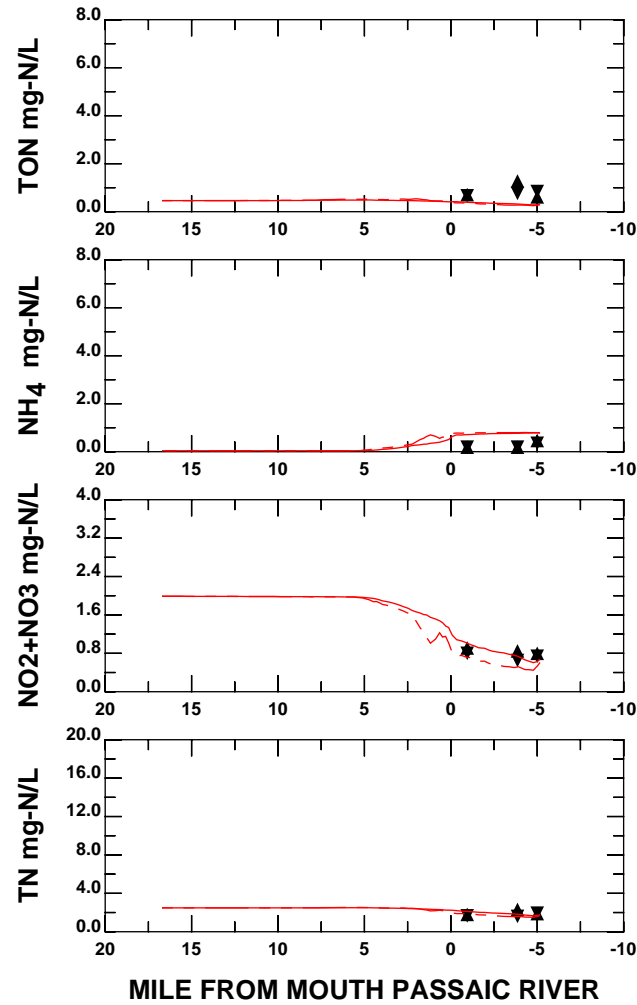
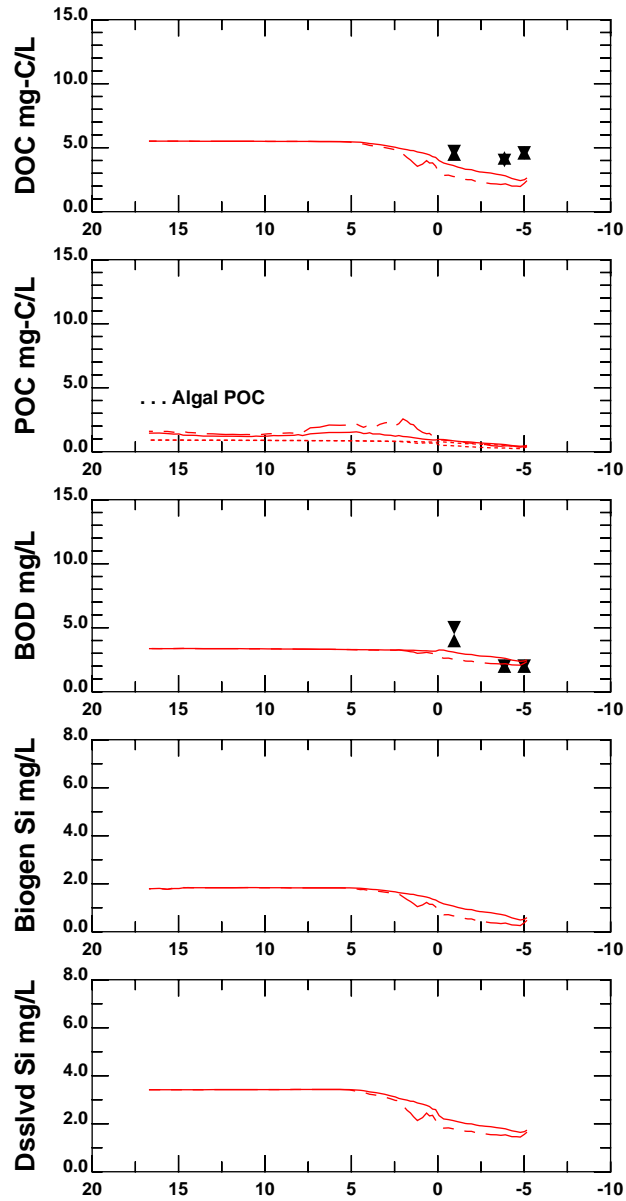
**DATA**  
NJHDG Dec 16,2004

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

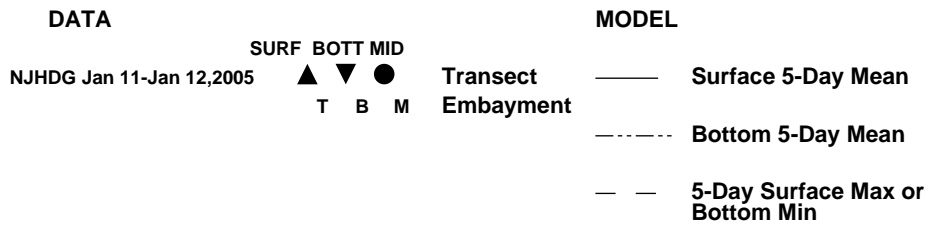
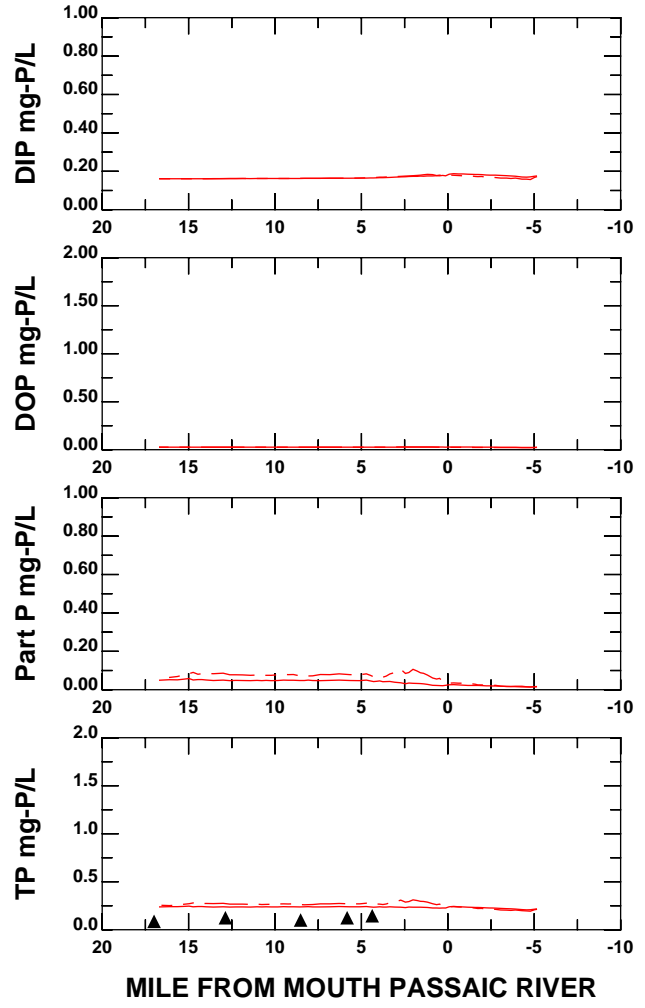
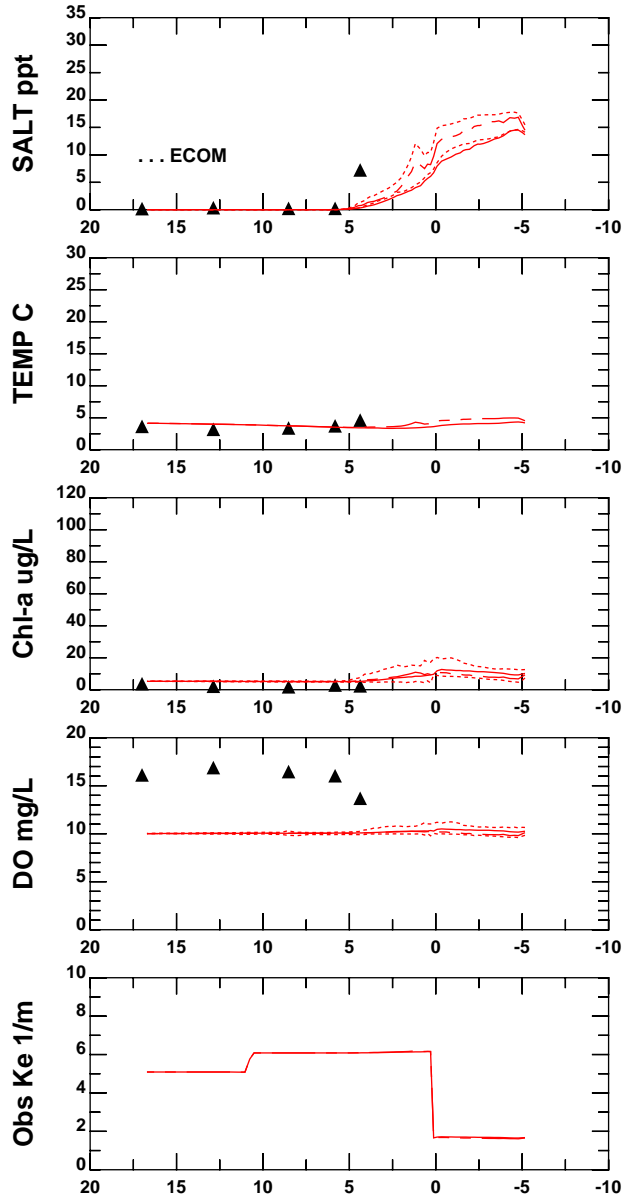


DATA  
NJHDG Dec 16,2004

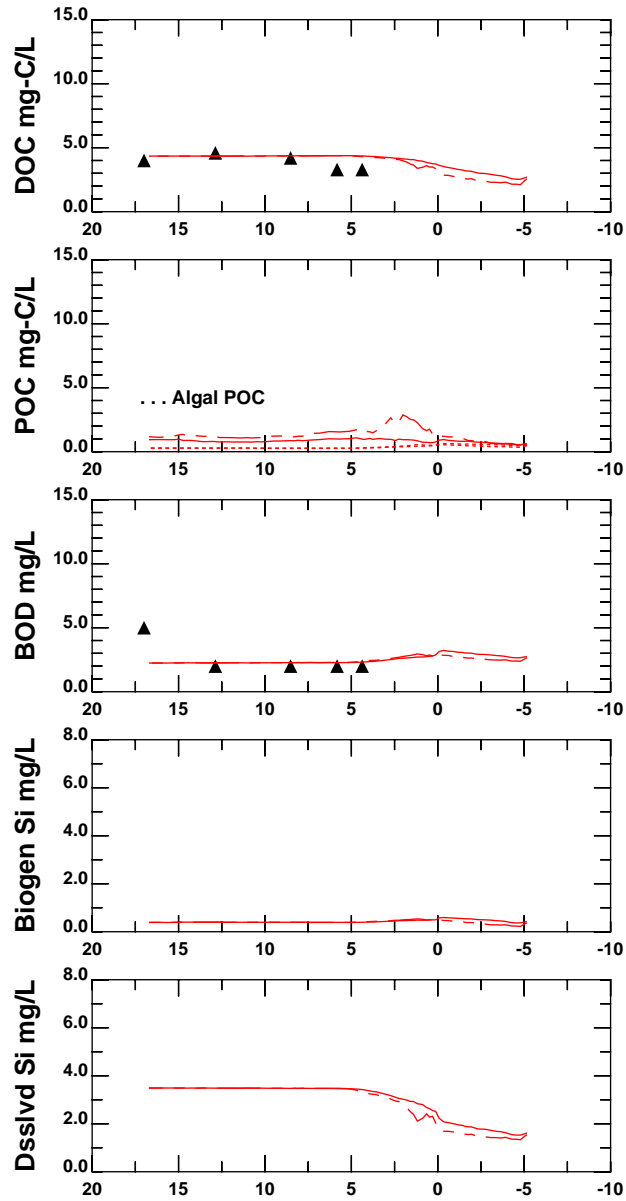
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



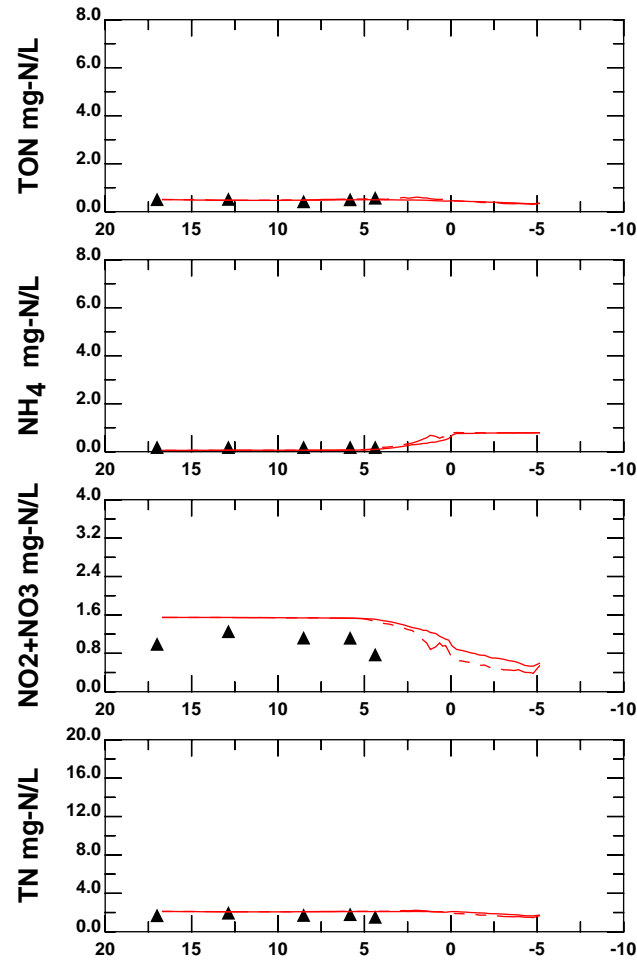
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



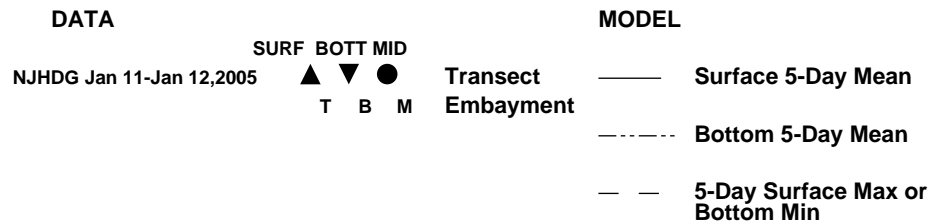
MILE FROM MOUTH PASSAIC RIVER

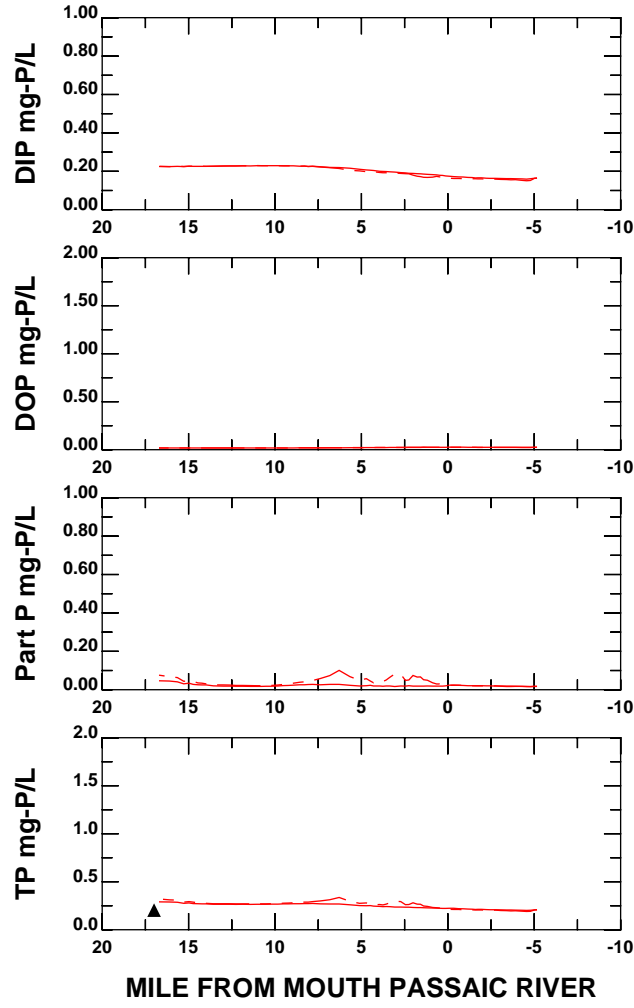
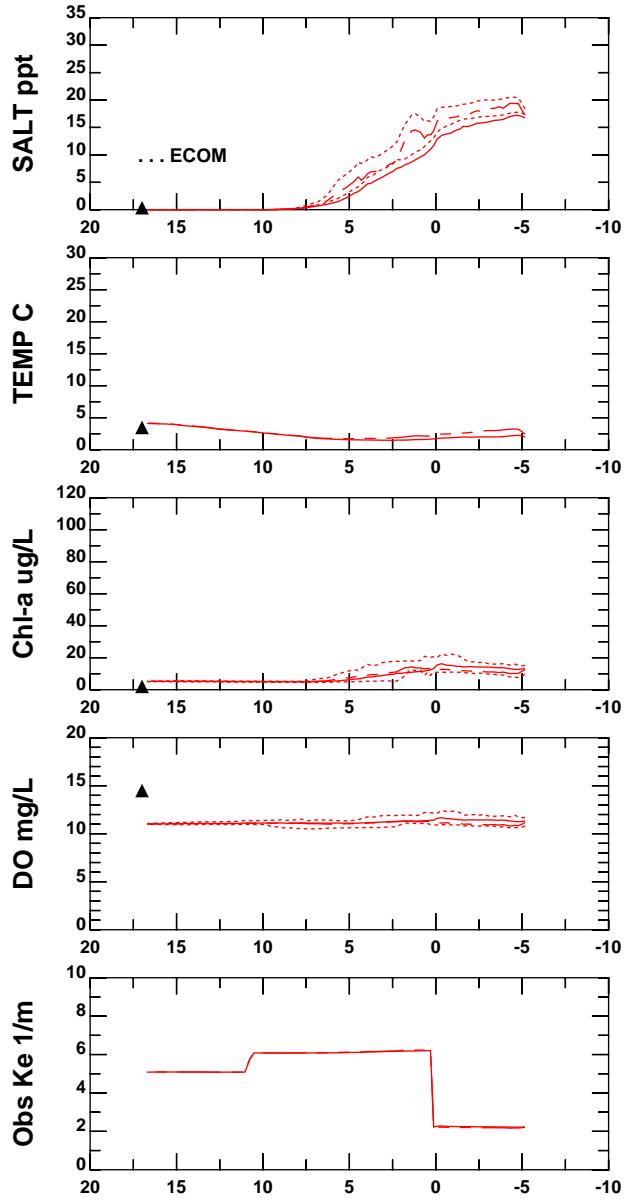
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER





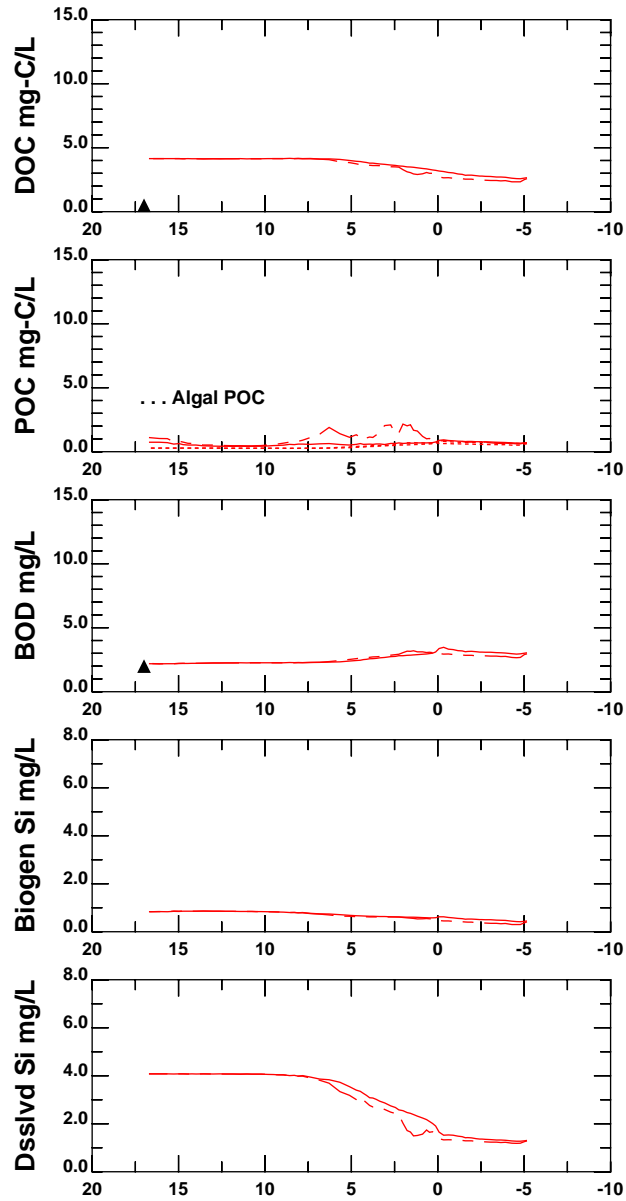
**DATA**  
NJHDG Feb 08, 2005

**MODEL**

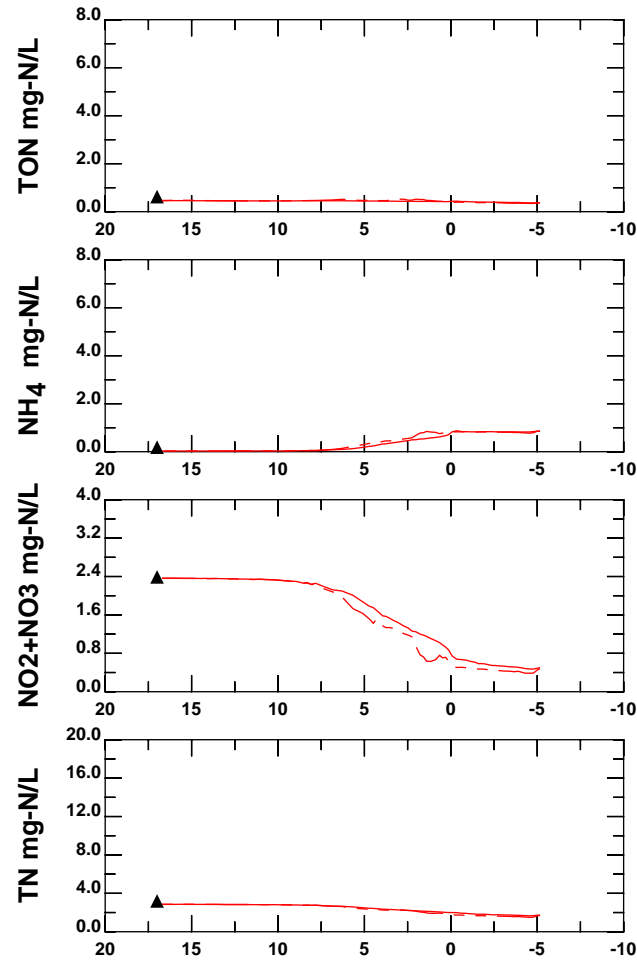
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHGD Feb 08,2005

SURF BOTT MID

▲ ▼ ●  
T B M

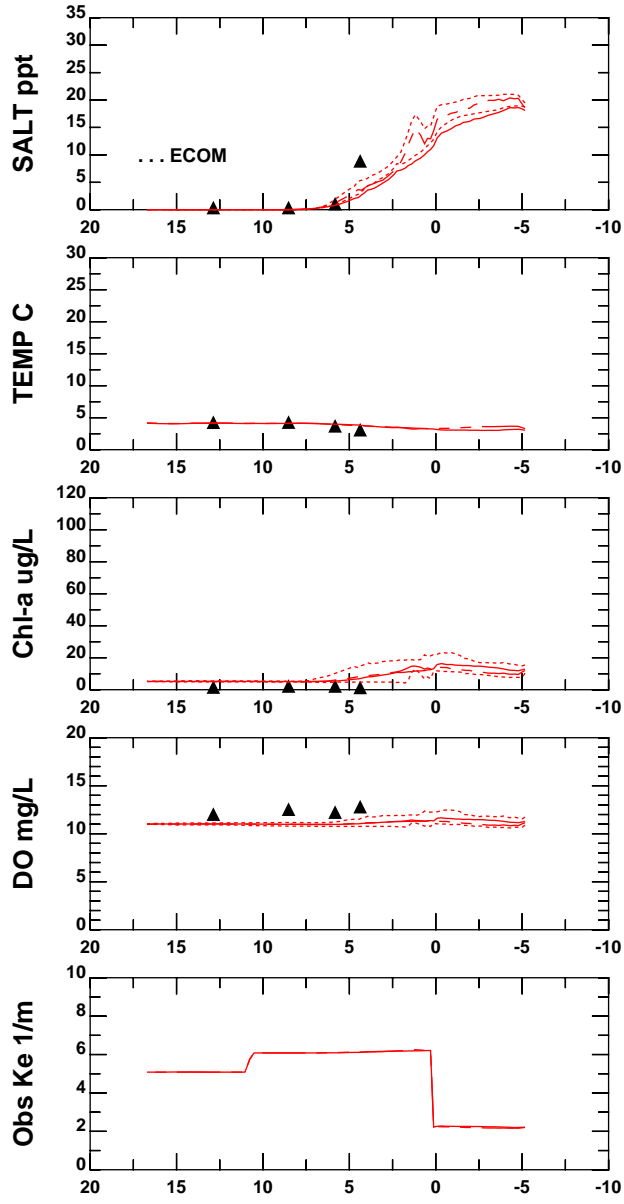
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

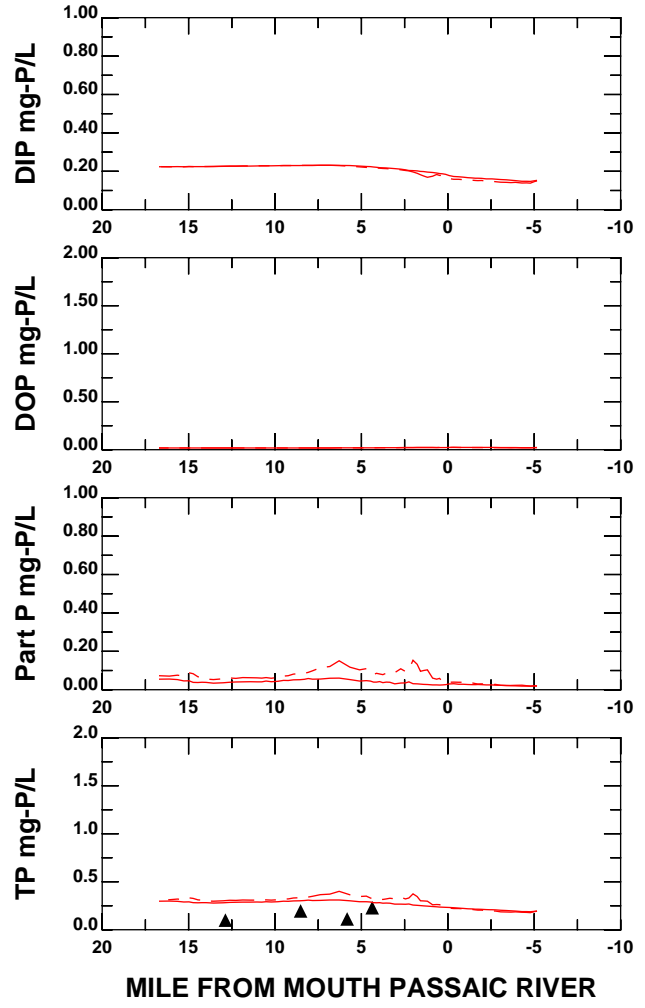
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



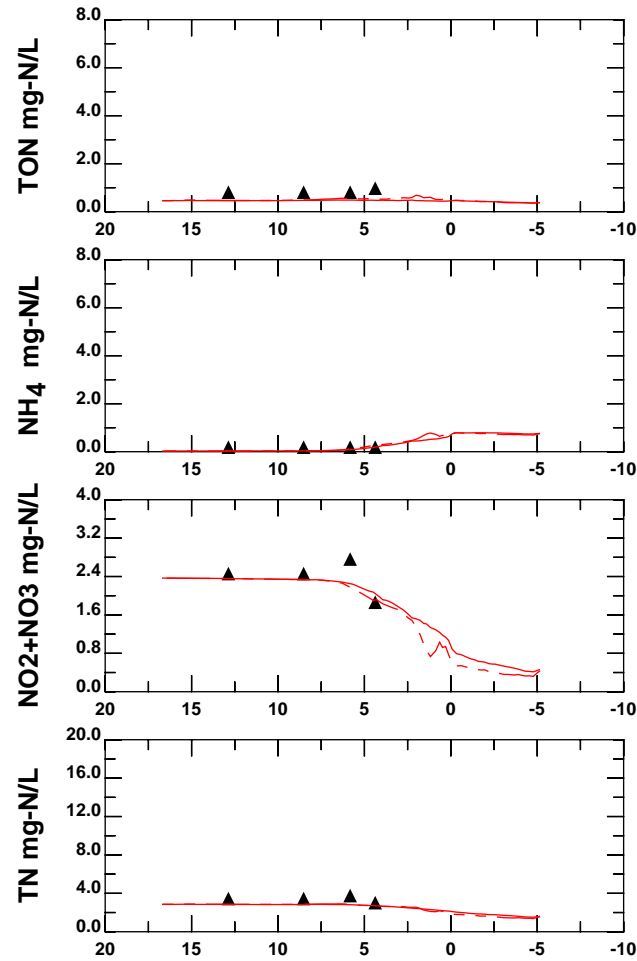
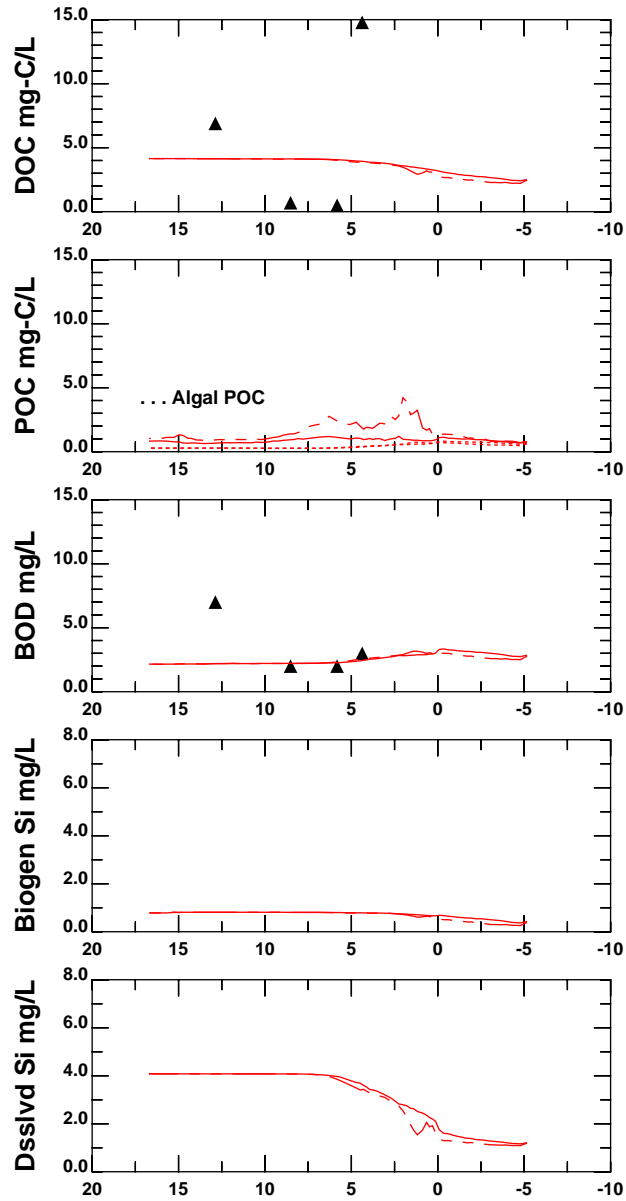
DATA  
 NJHDG Feb 09,2005

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min





**DATA**

NJHGD Feb 09,2005

SURF BOTT MID

▲ ▼ ●  
T B M

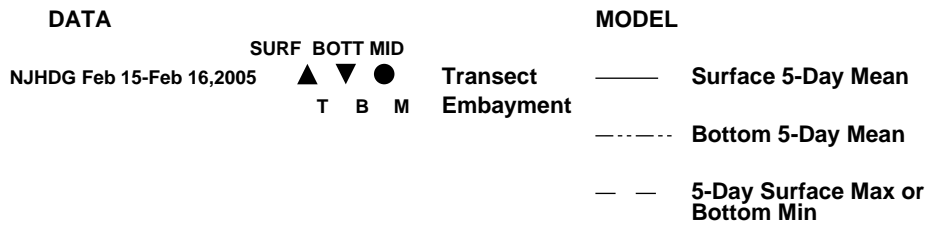
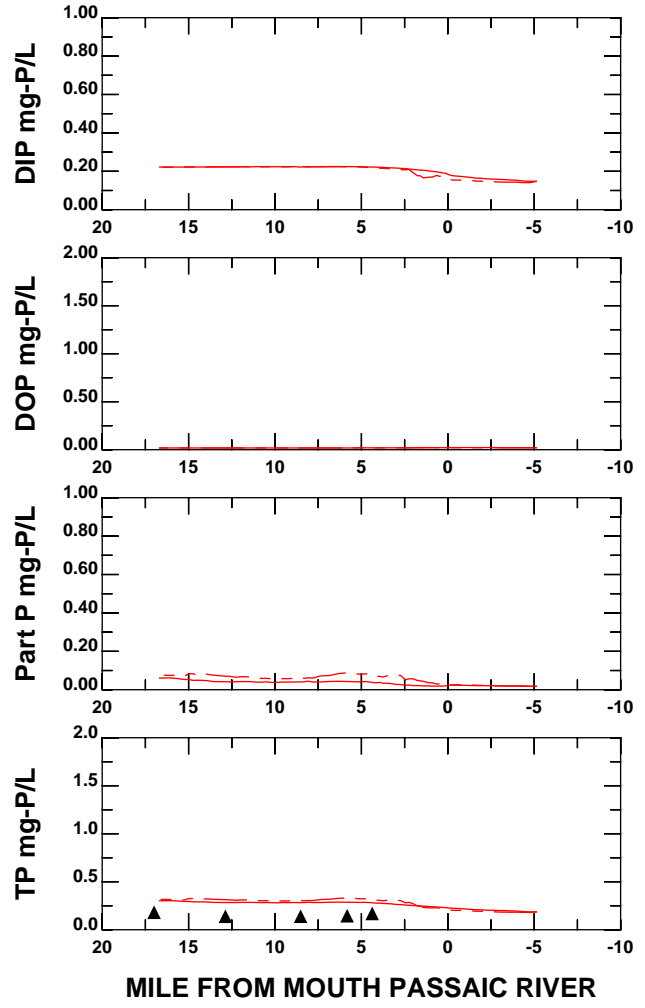
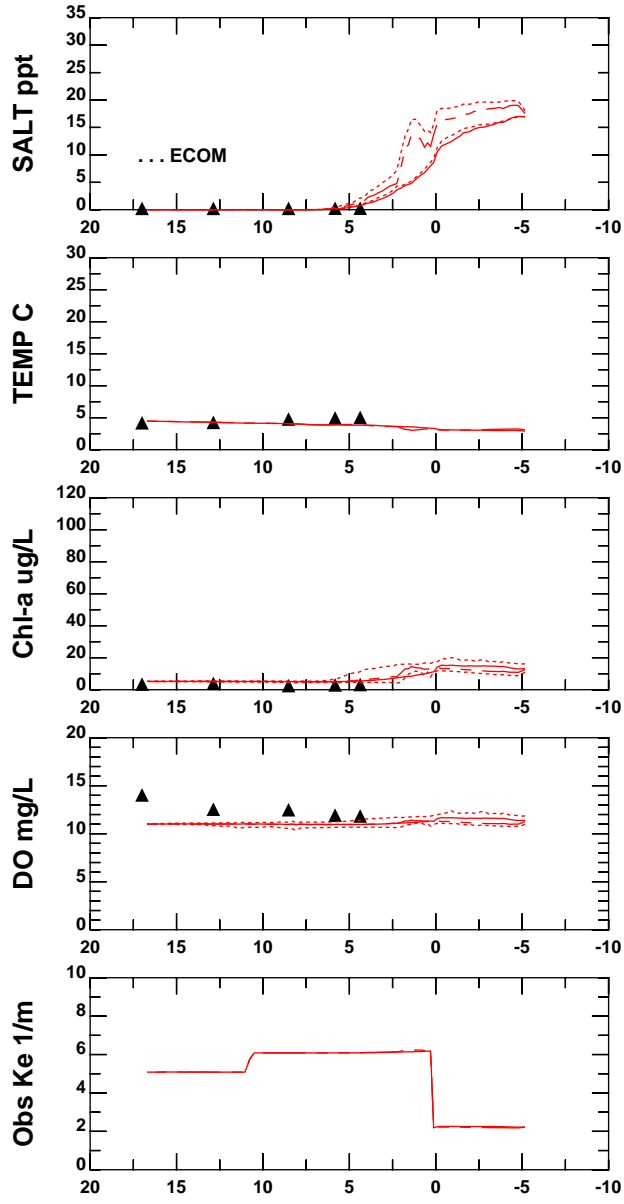
Transect  
Embayment

**MODEL**

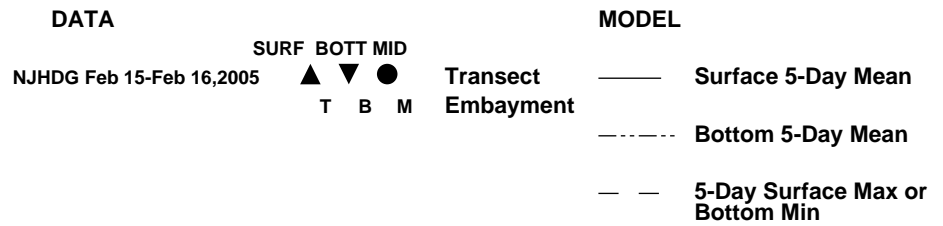
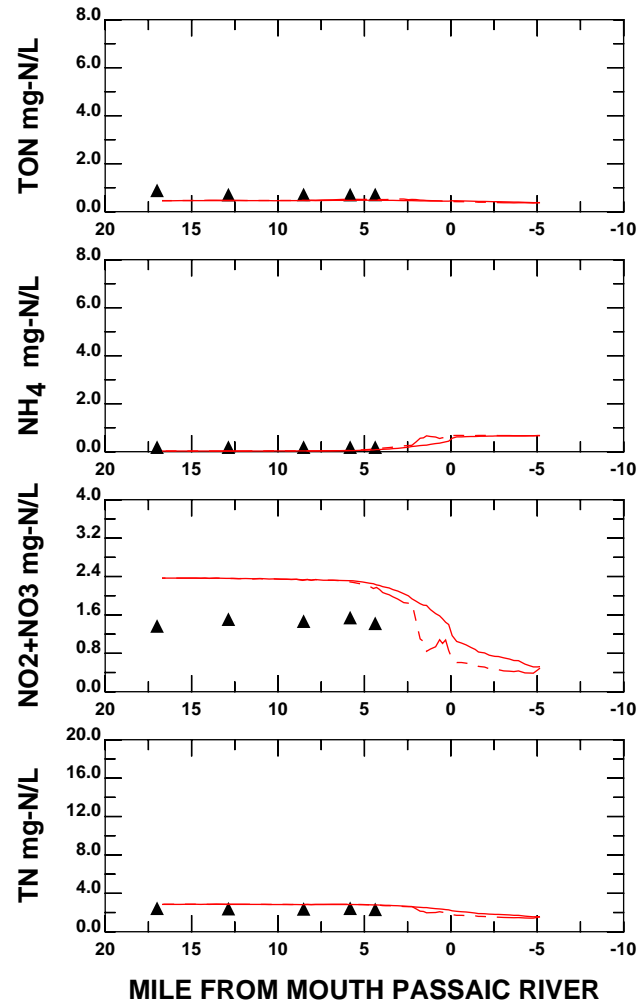
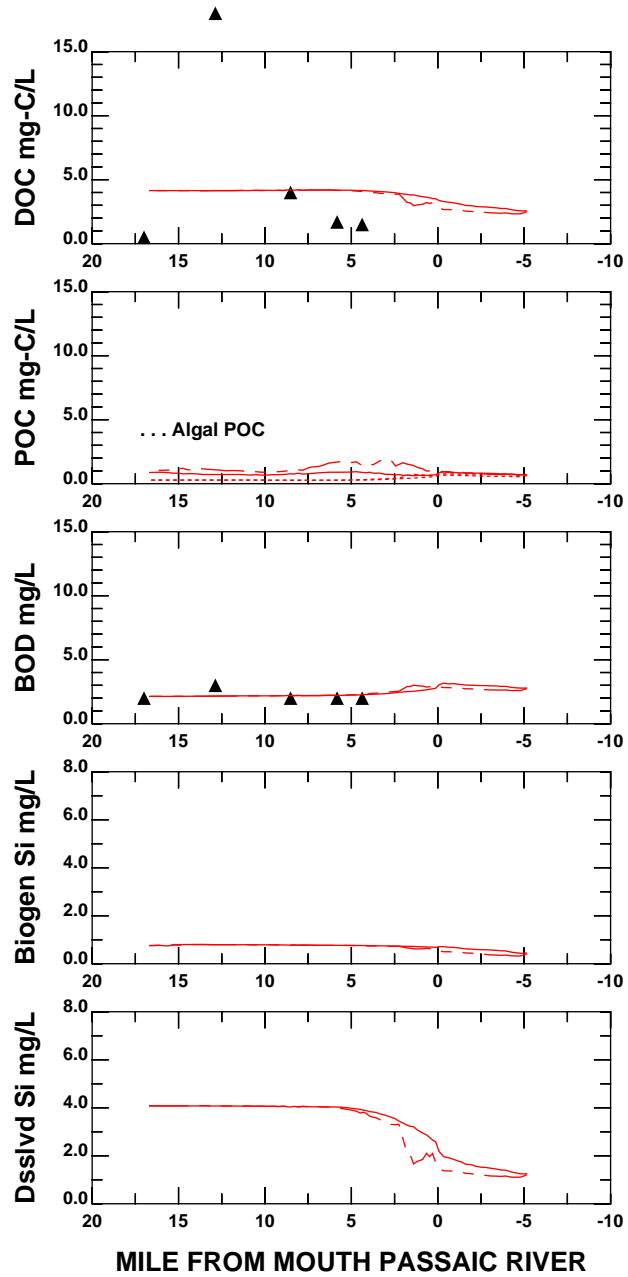
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

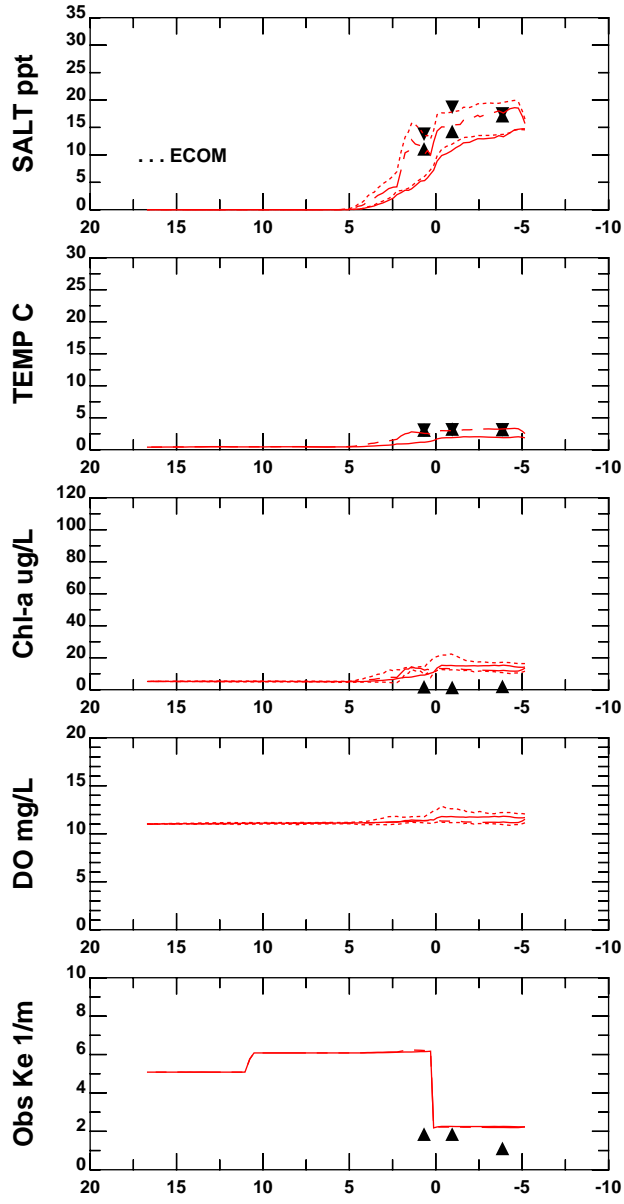
RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

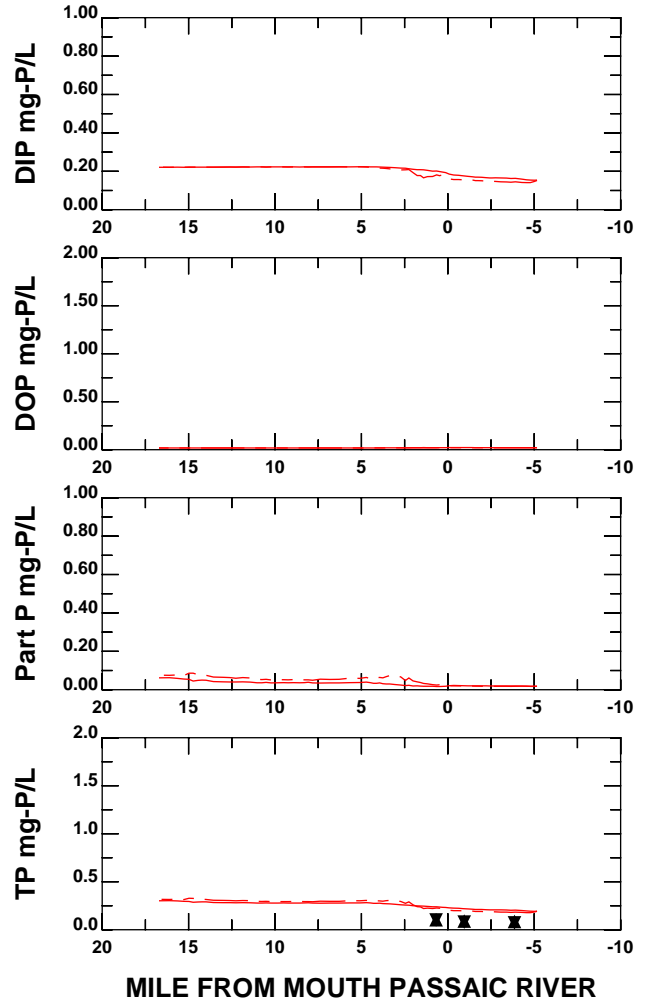


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



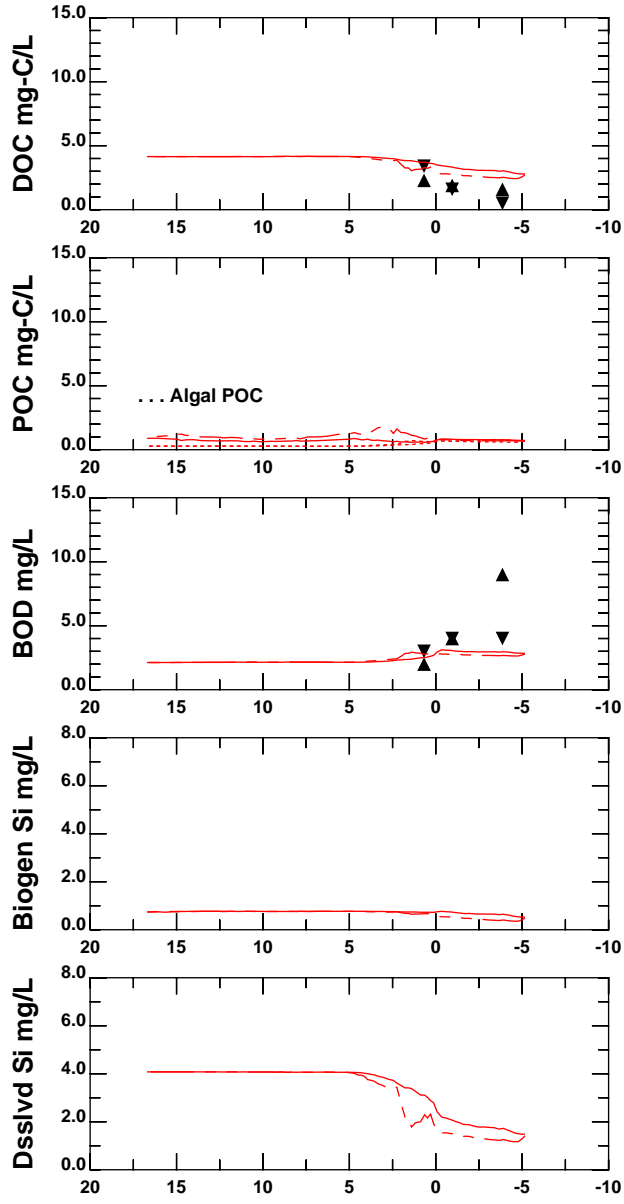
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Feb 23,2005

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

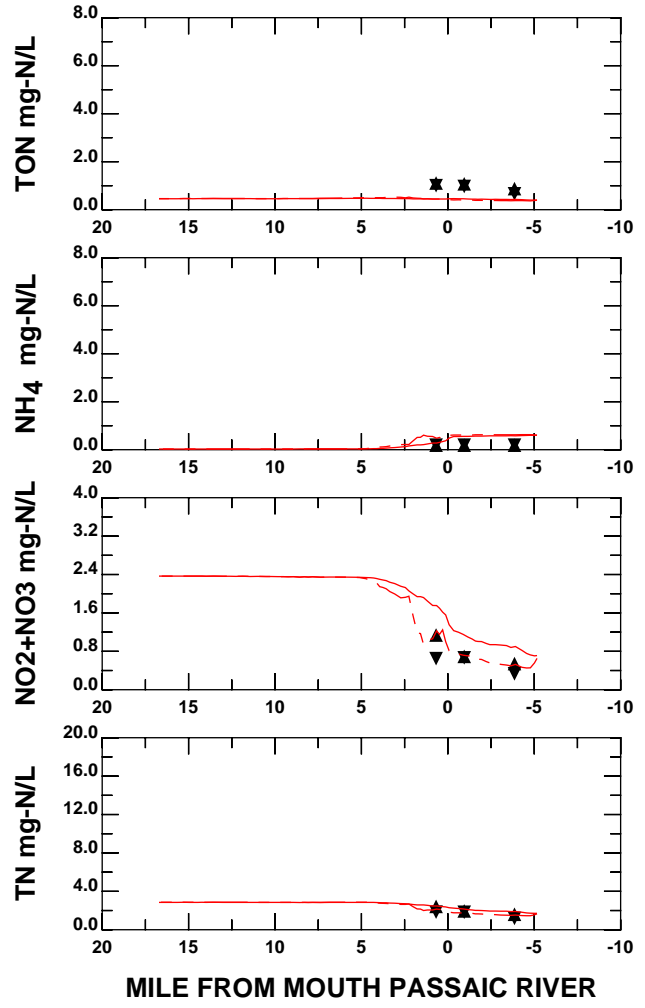
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405

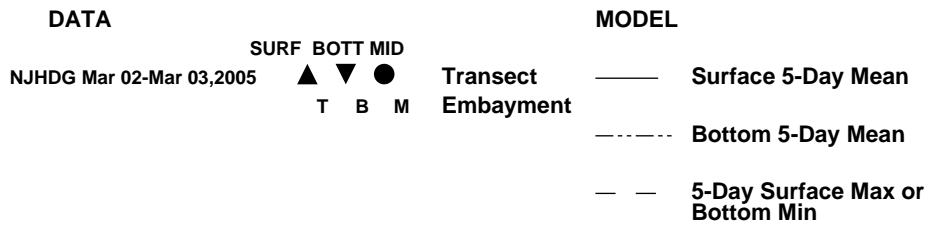
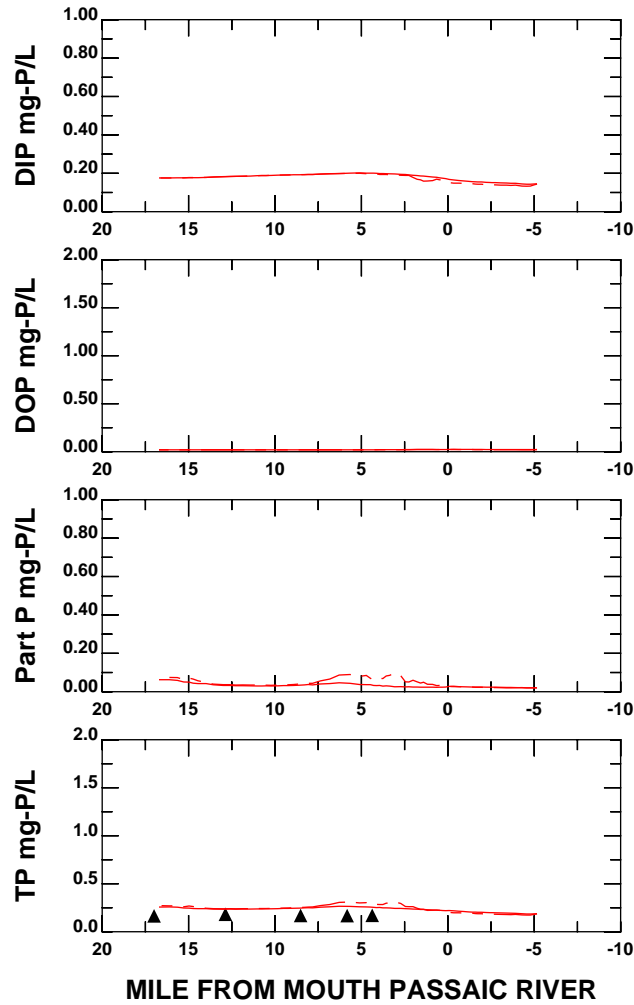
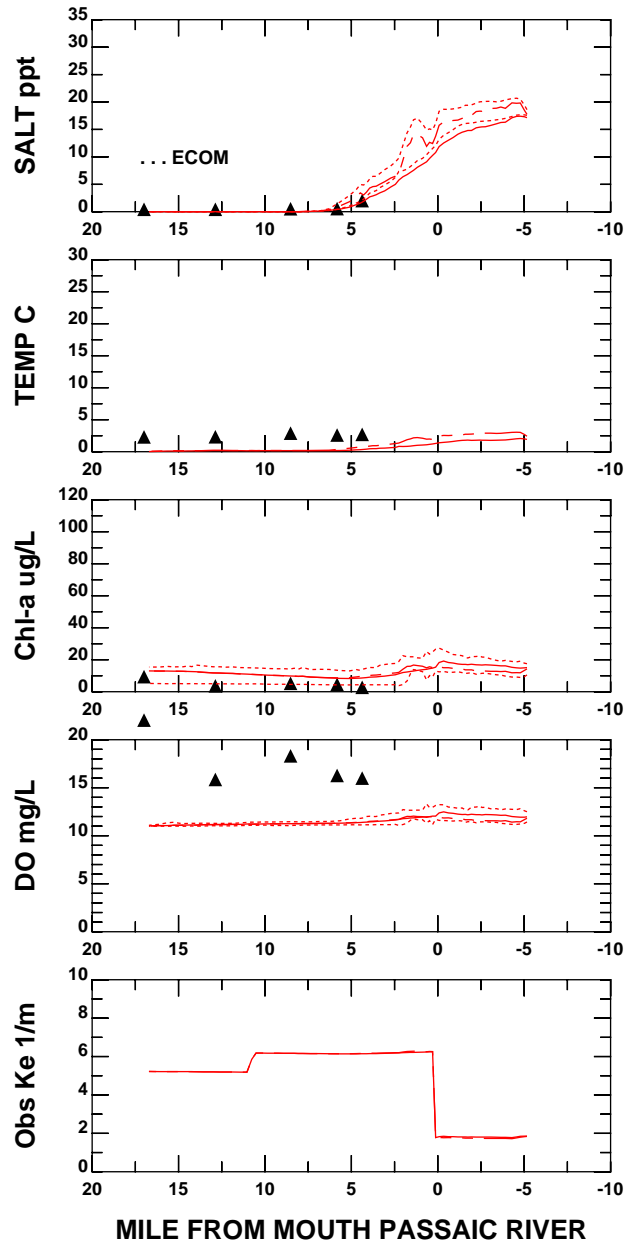


DATA  
NJHDG Feb 23,2005

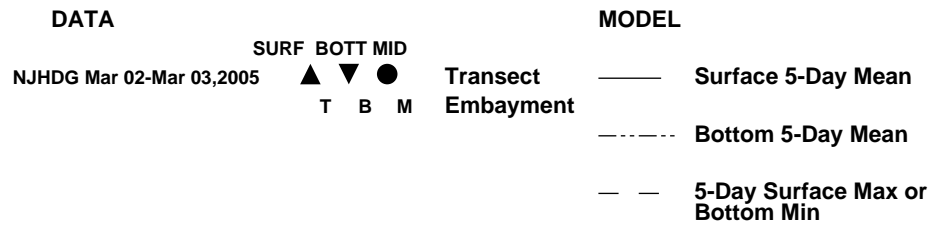
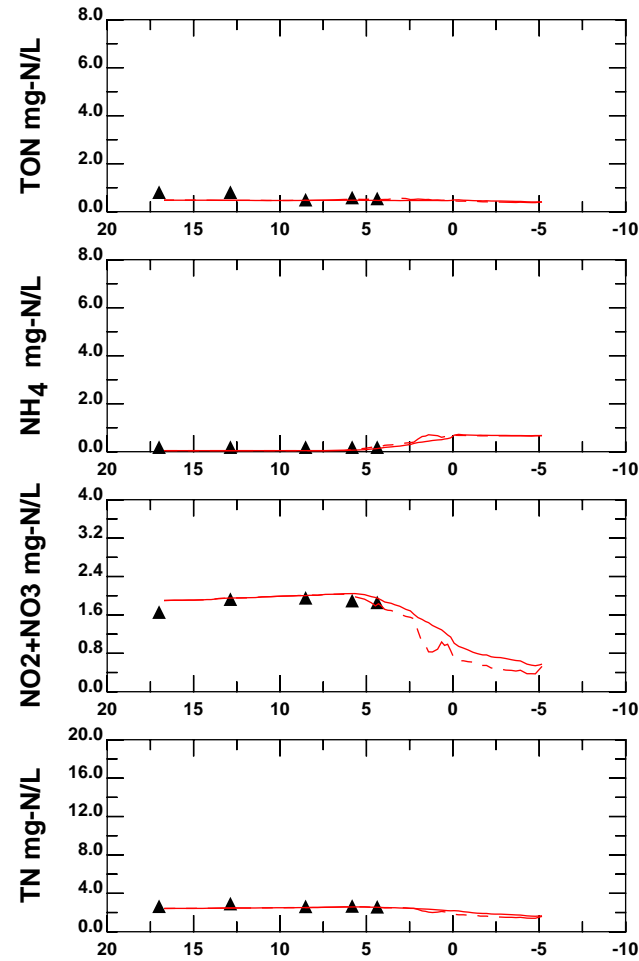
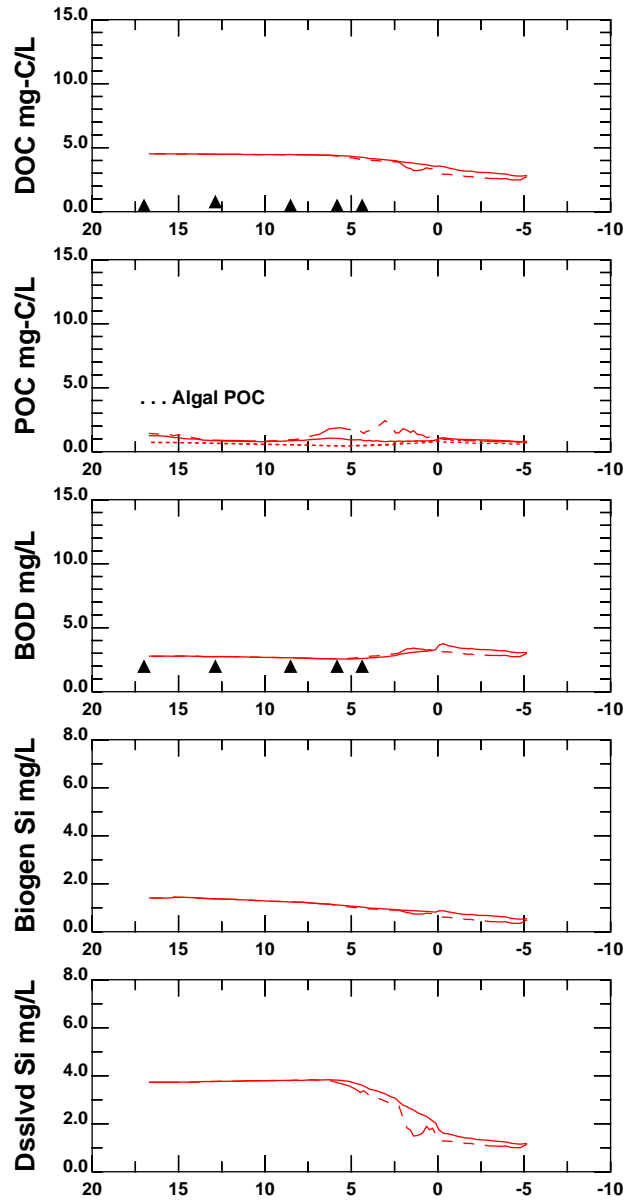
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

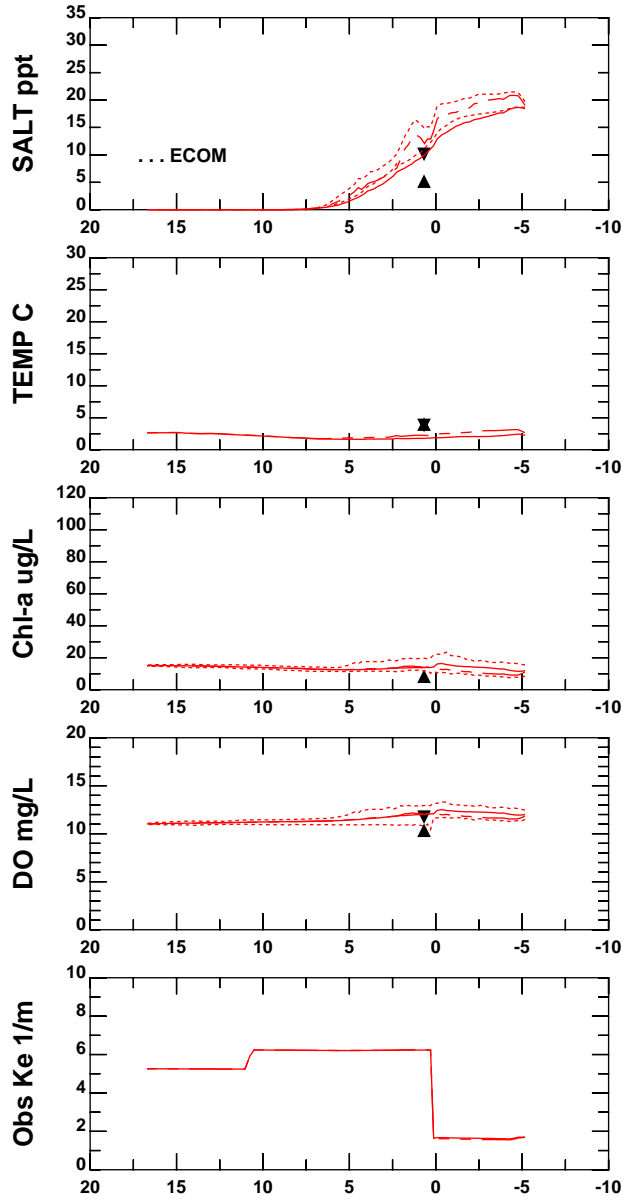
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

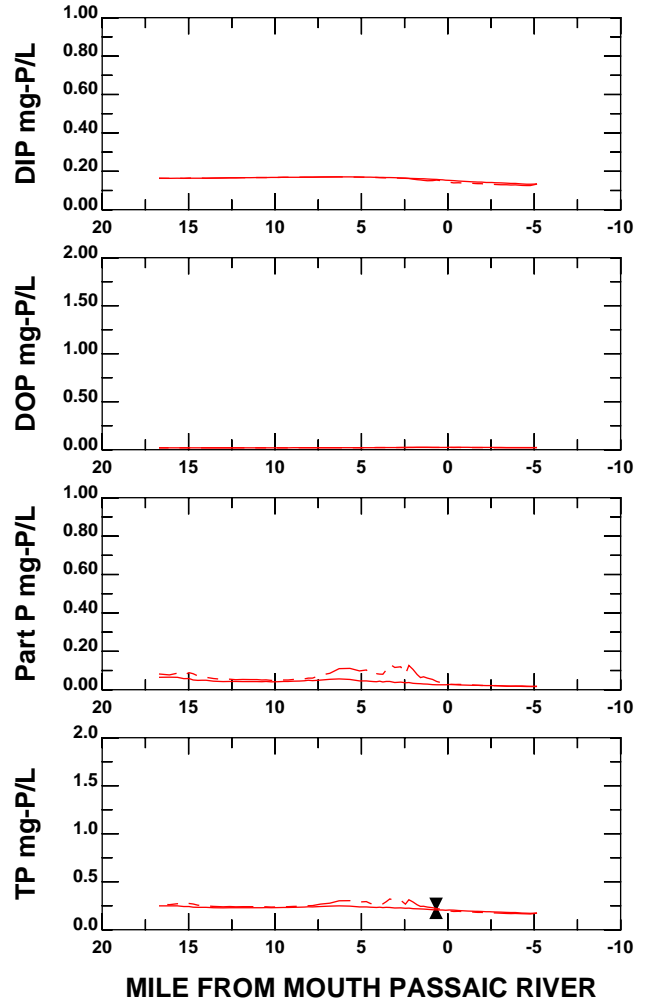


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Mar 09,2005

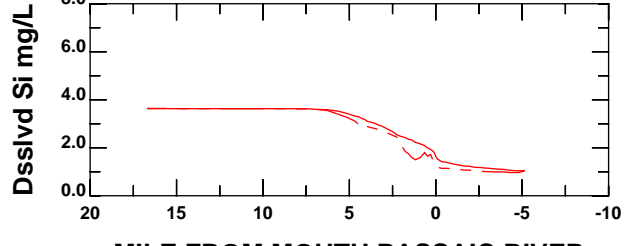
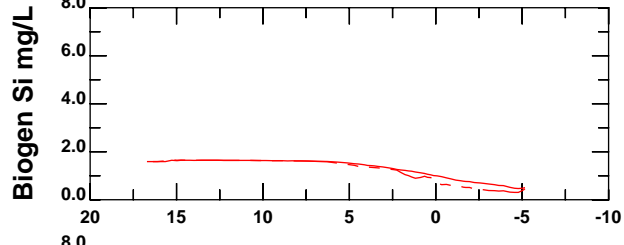
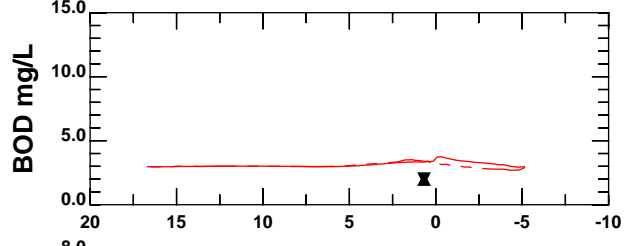
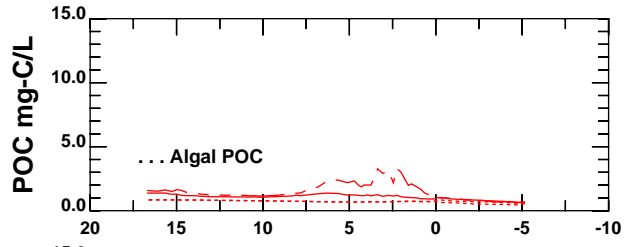
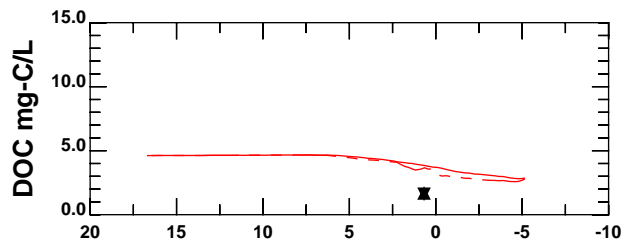
SURF BOTT MID  
 ▲ ▼ ●  
 T B M

Transect  
 Embayment

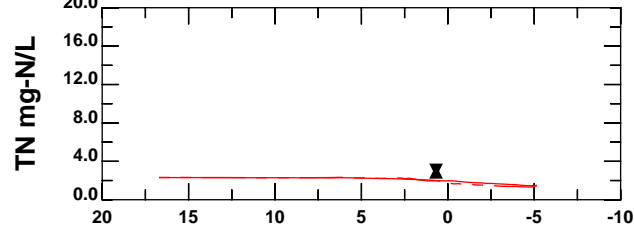
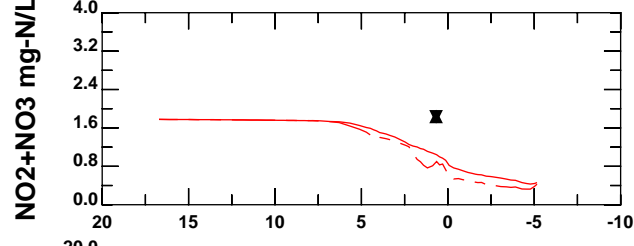
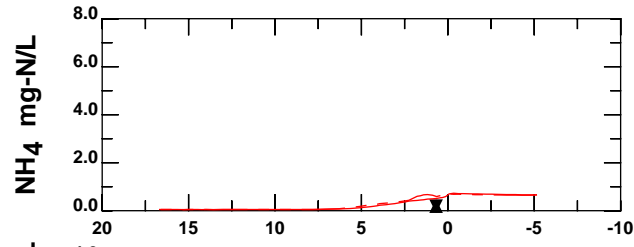
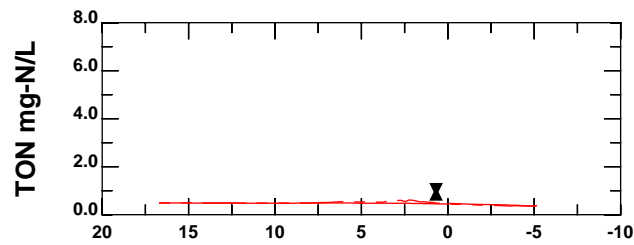
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



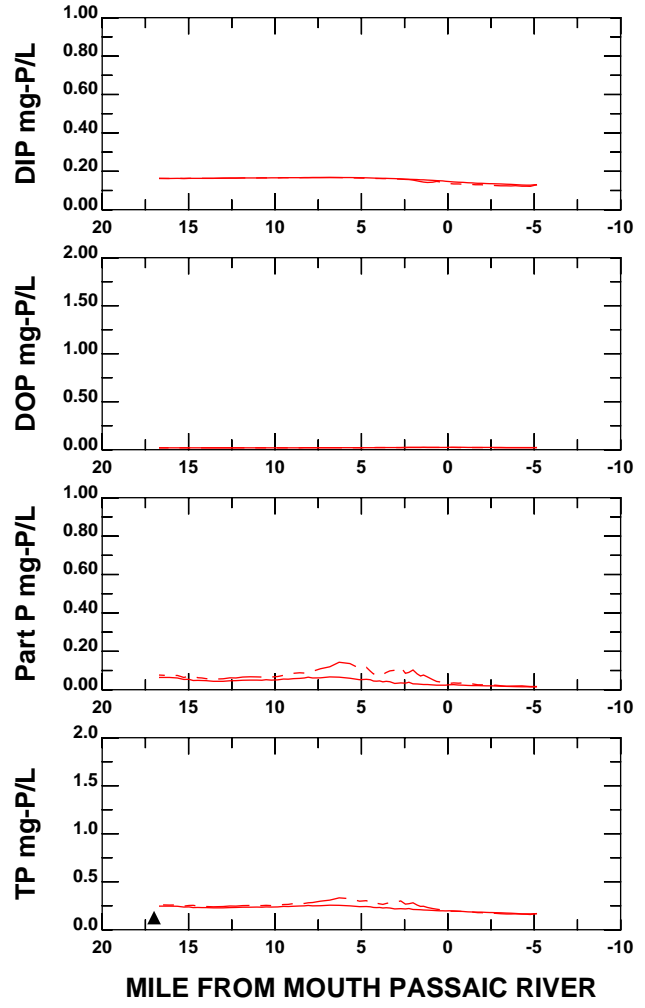
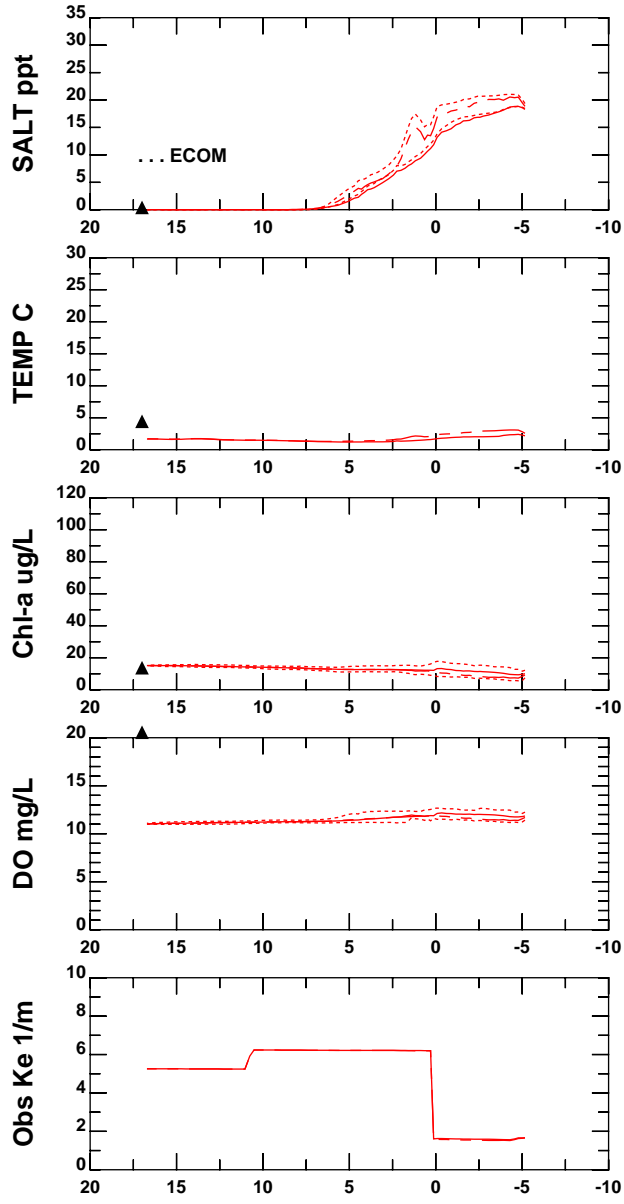
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Mar 09,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



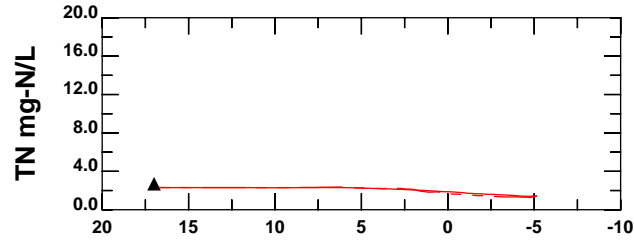
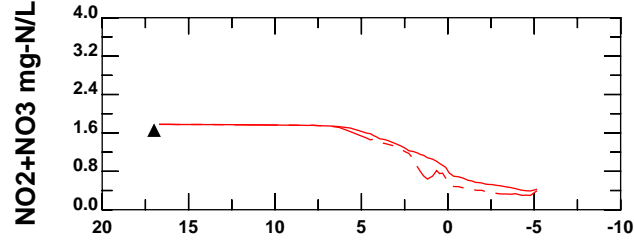
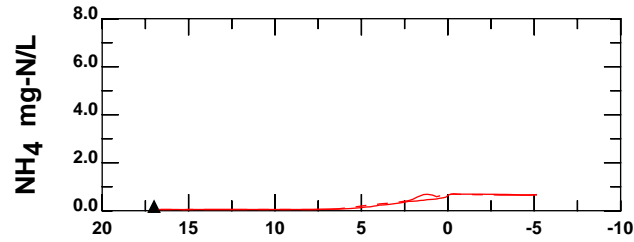
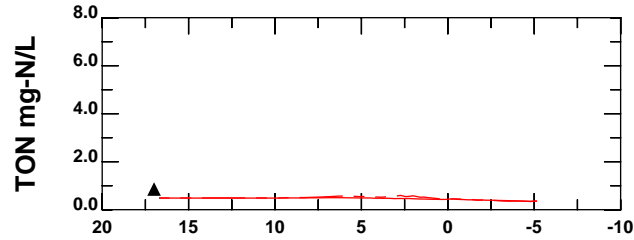
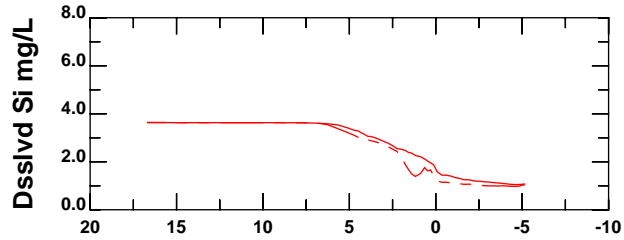
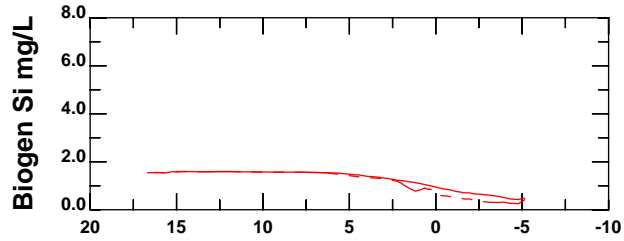
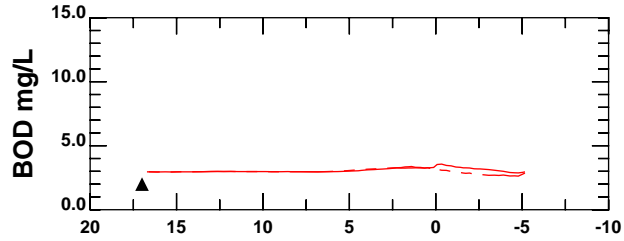
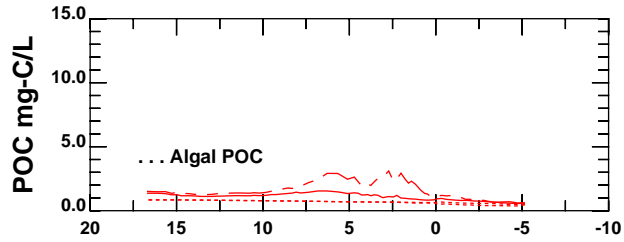
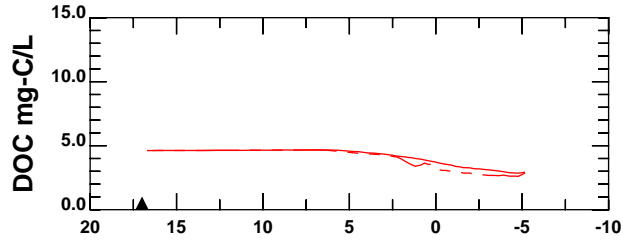
**DATA**  
NJHDG Mar 15,2005

**MODEL**

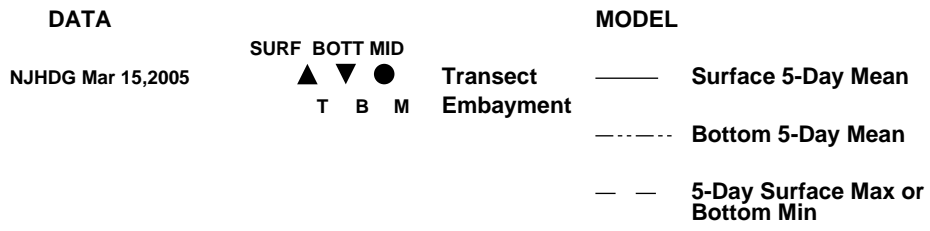
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

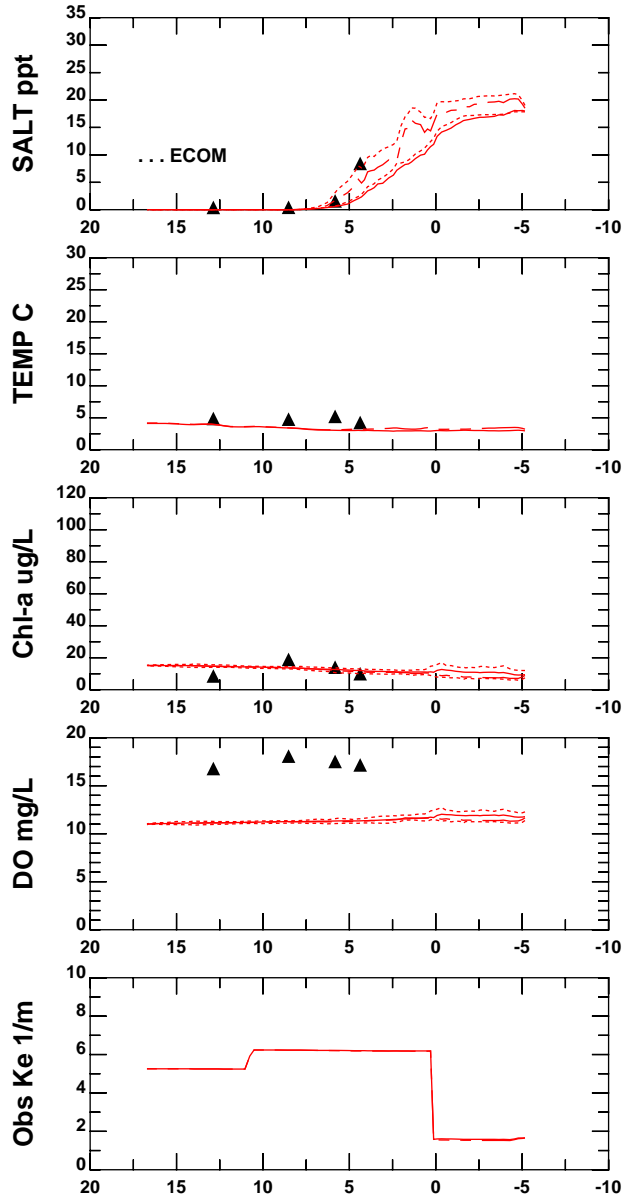
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



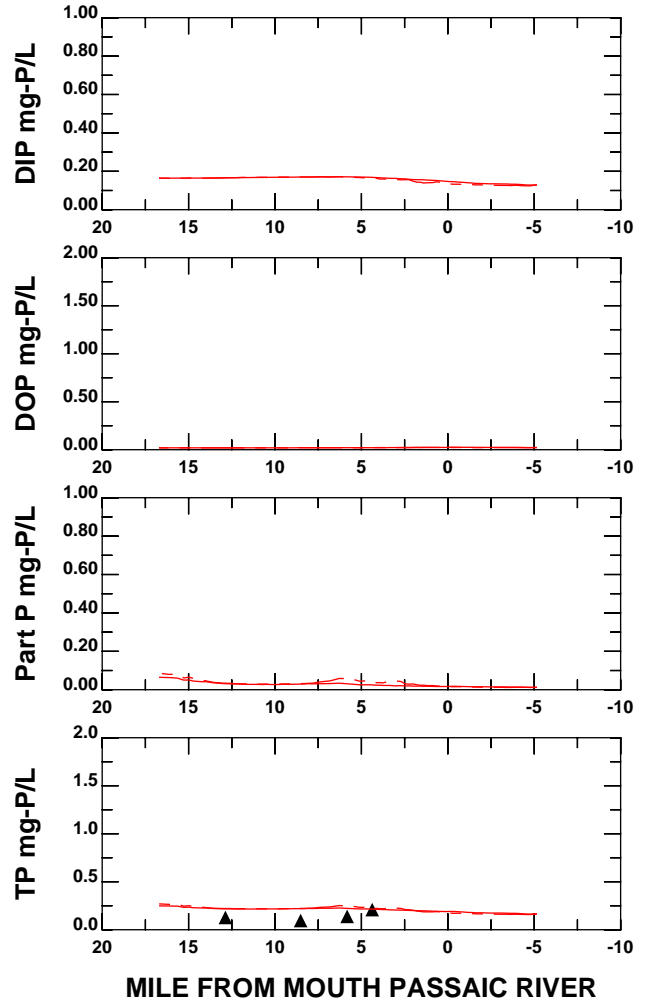
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

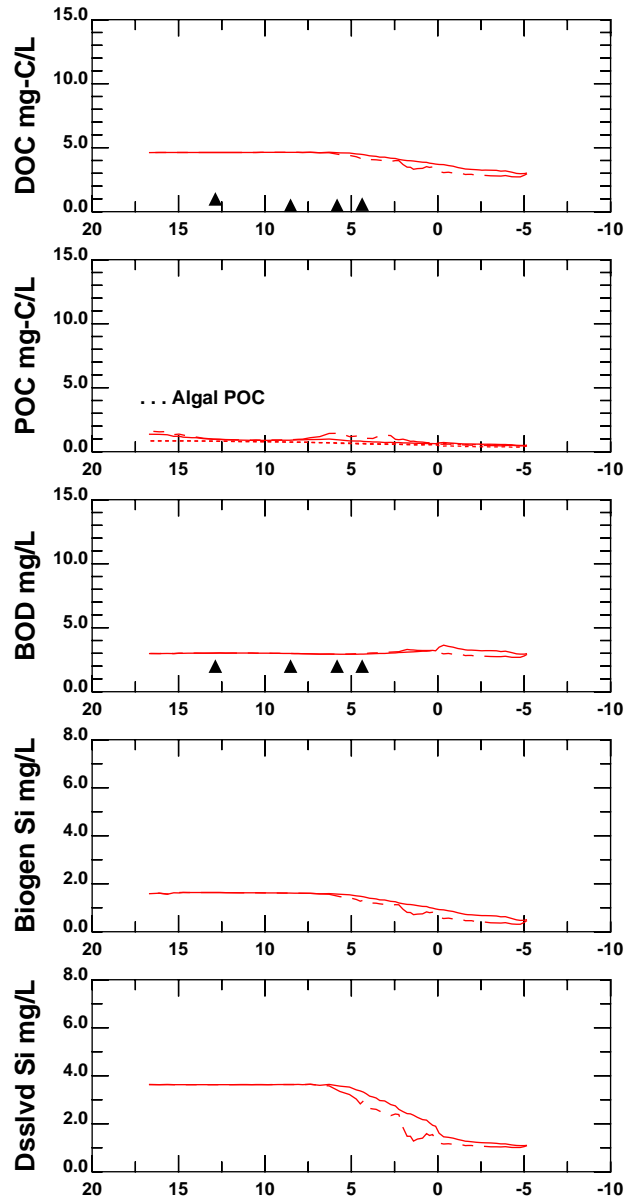


**DATA**  
 NJHDG Mar 16,2005

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

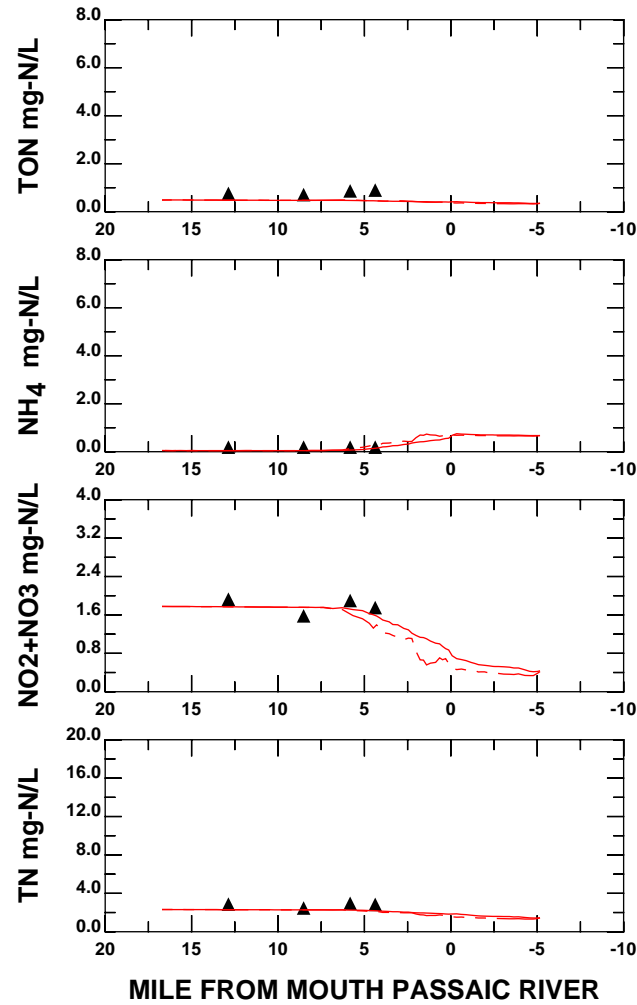
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Mar 16,2005

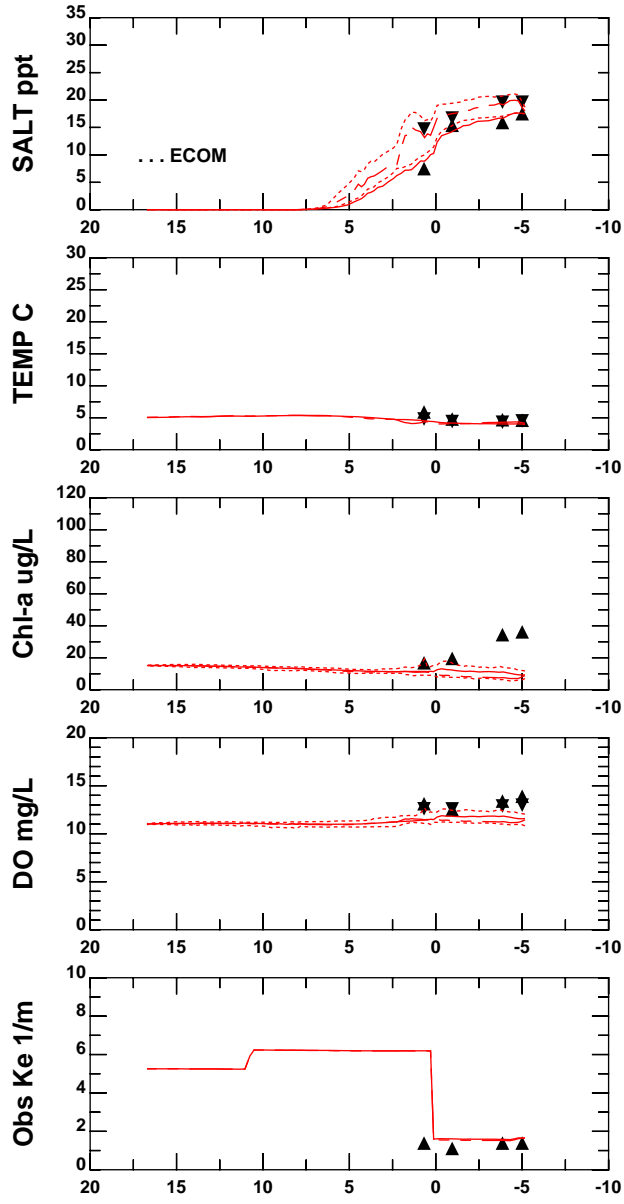
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

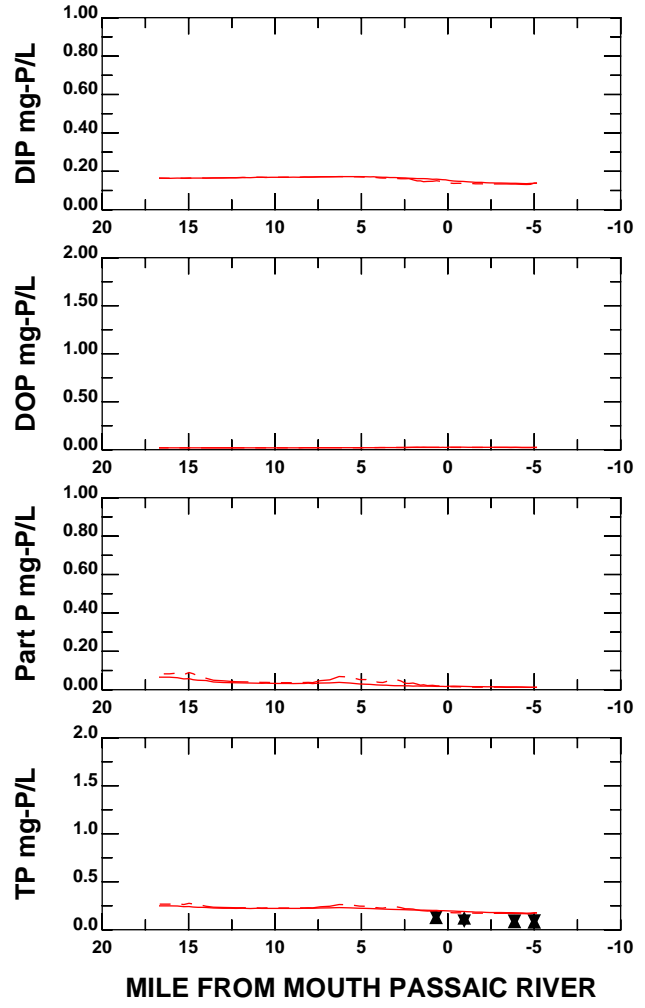
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min



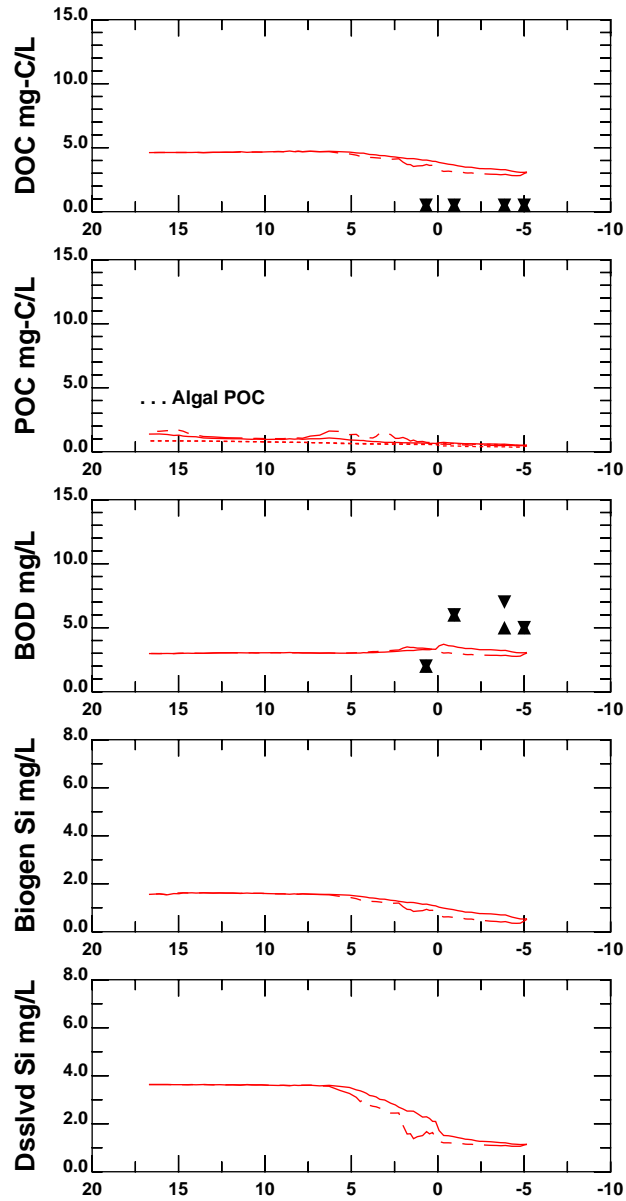
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

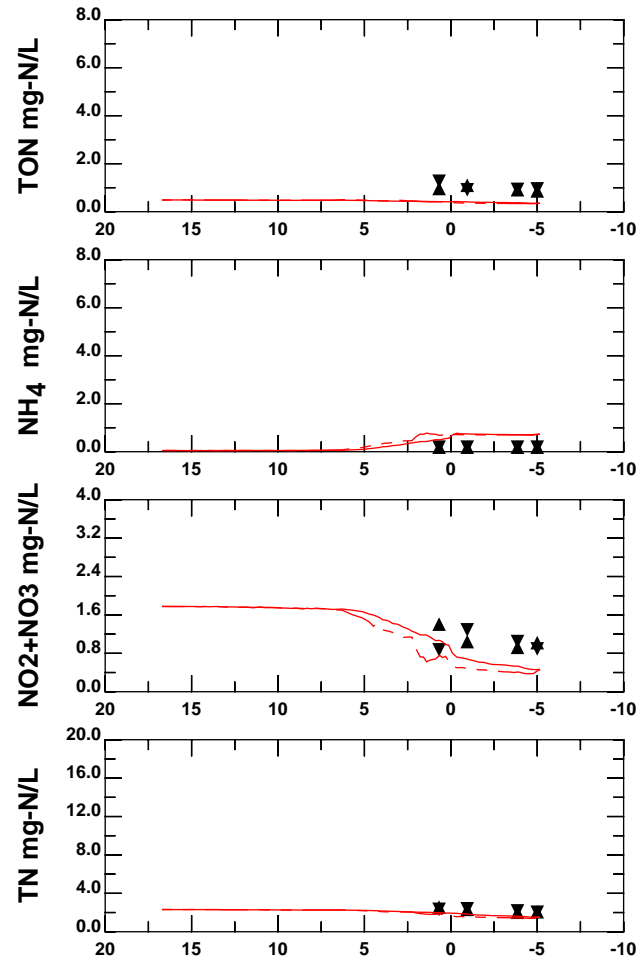


MILE FROM MOUTH PASSAIC RIVER

<b>DATA</b>		<b>MODEL</b>	
NJHDG Mar 21,2005			
	SURF BOTT MID	▲ ▼ ●	Transect
	T B M	— — —	Embayment
		—	Surface 5-Day Mean
		- - -	Bottom 5-Day Mean
		— —	5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

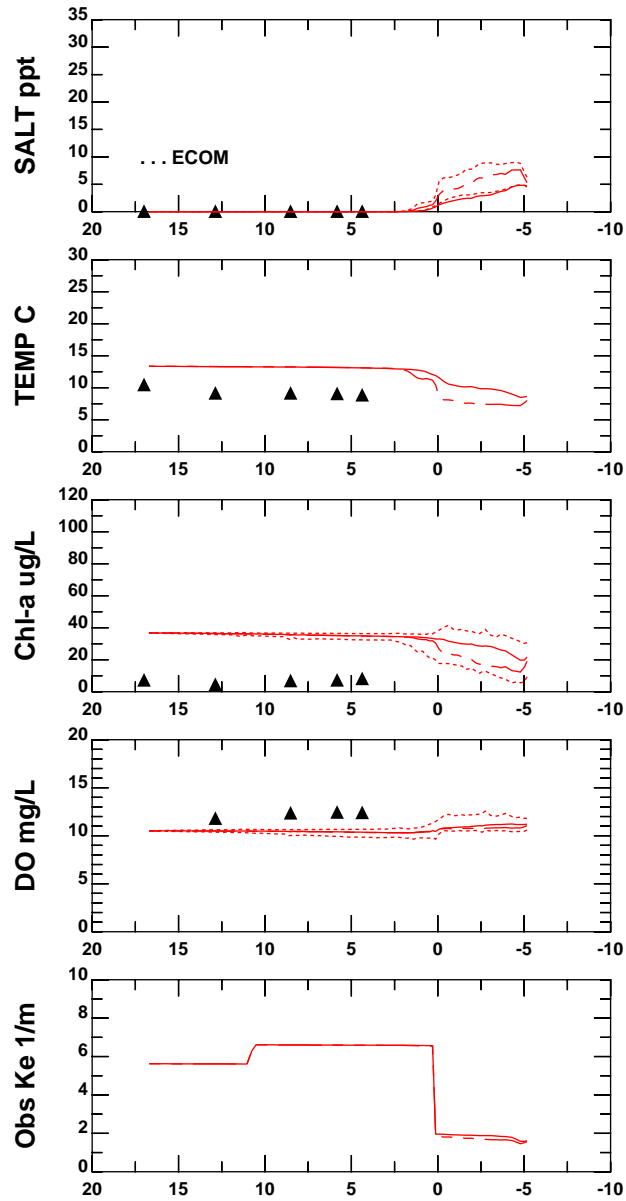
DATA  
NJHDG Mar 21,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

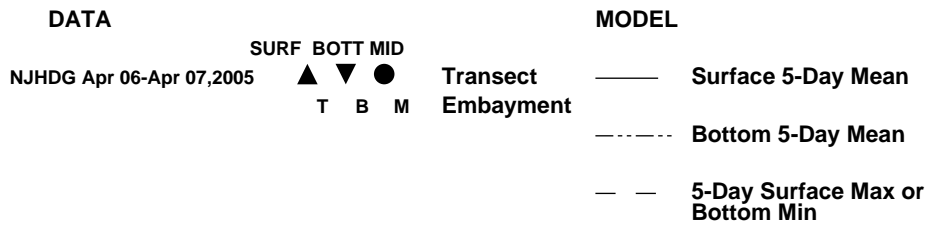
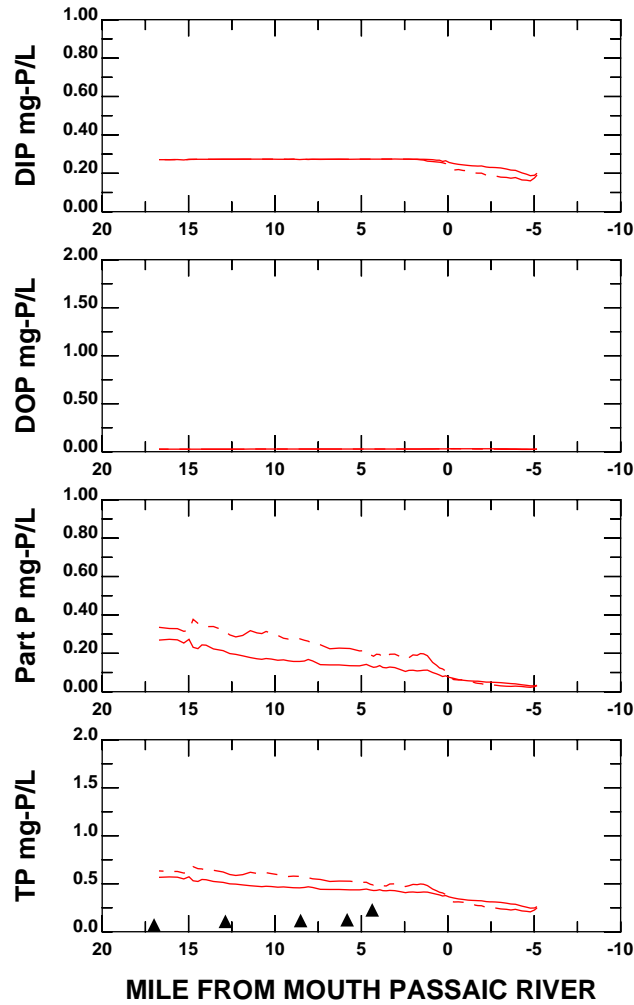
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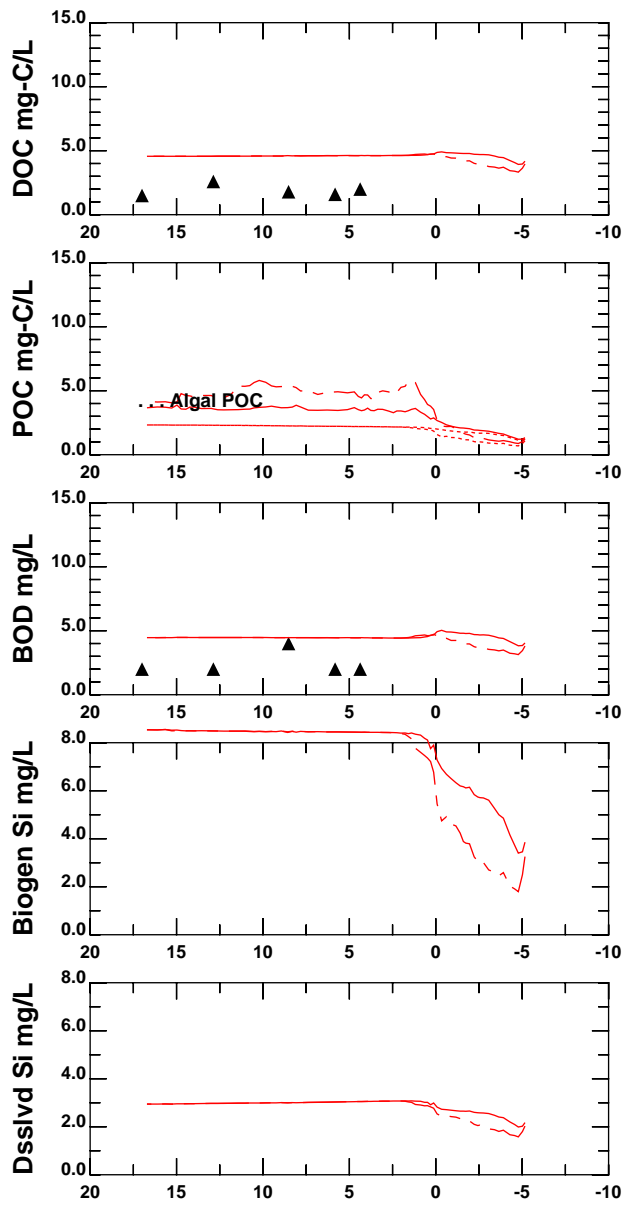
MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



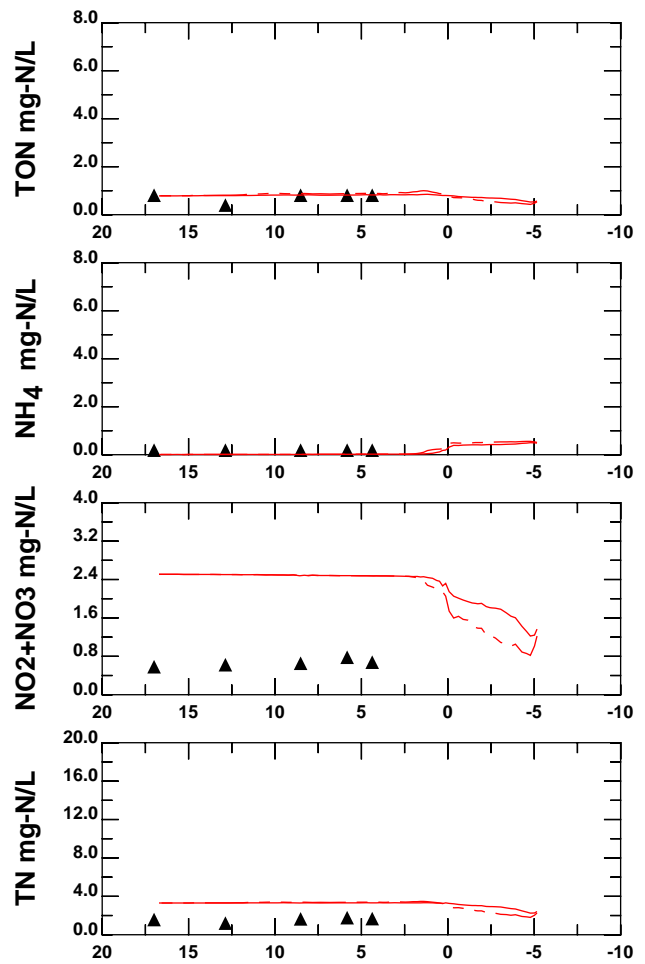




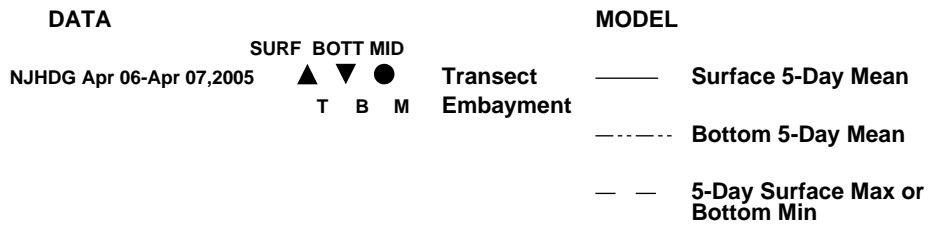
MILE FROM MOUTH PASSAIC RIVER

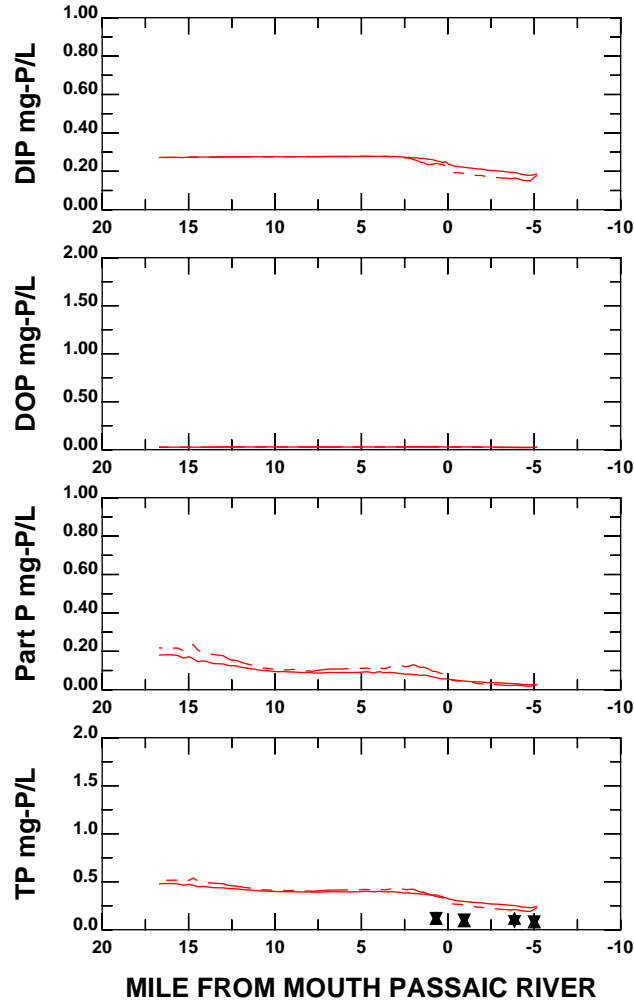
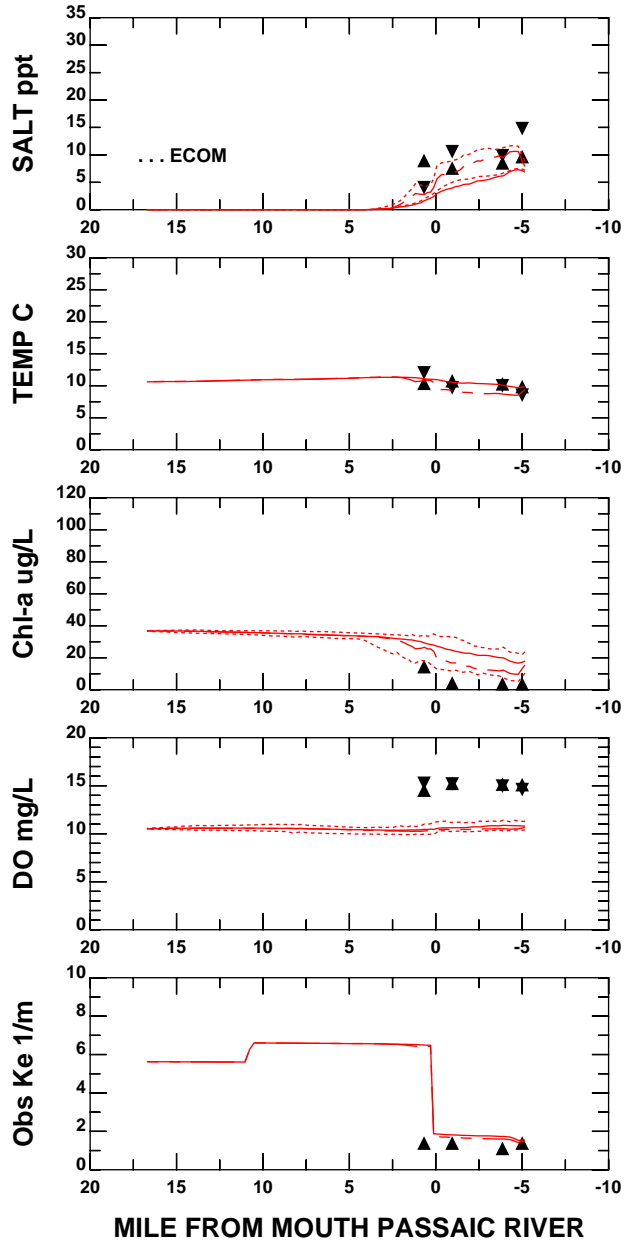
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER





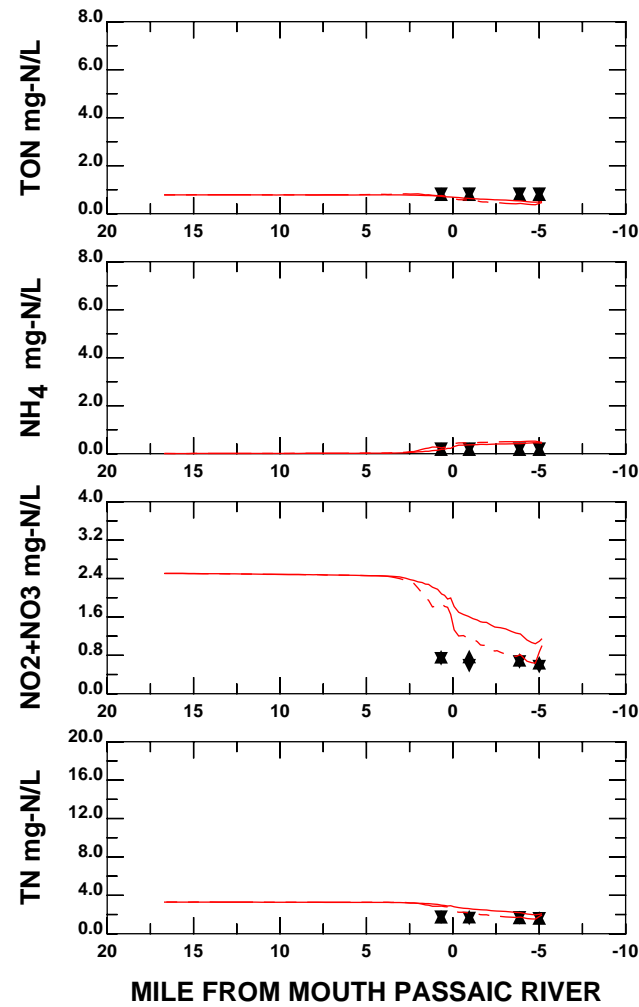
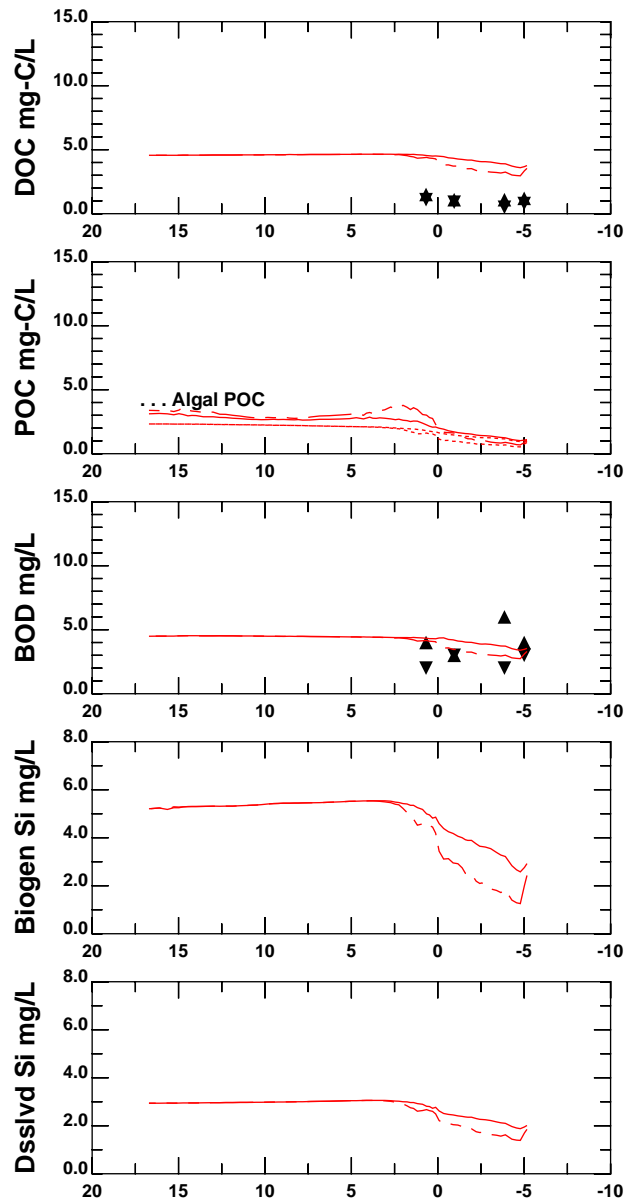
**DATA**  
NJHDG Apr 13,2005

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

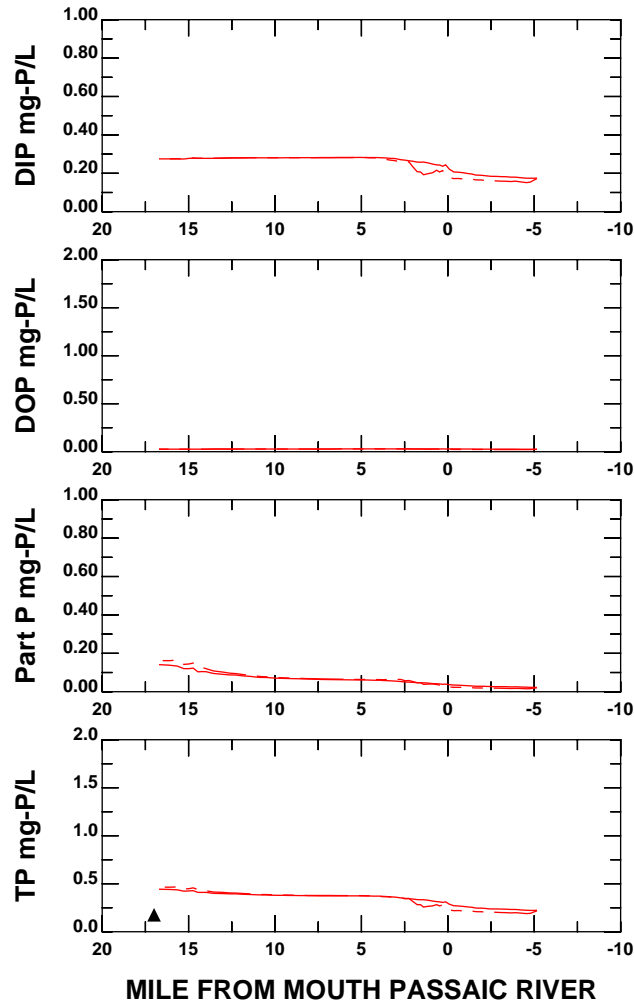
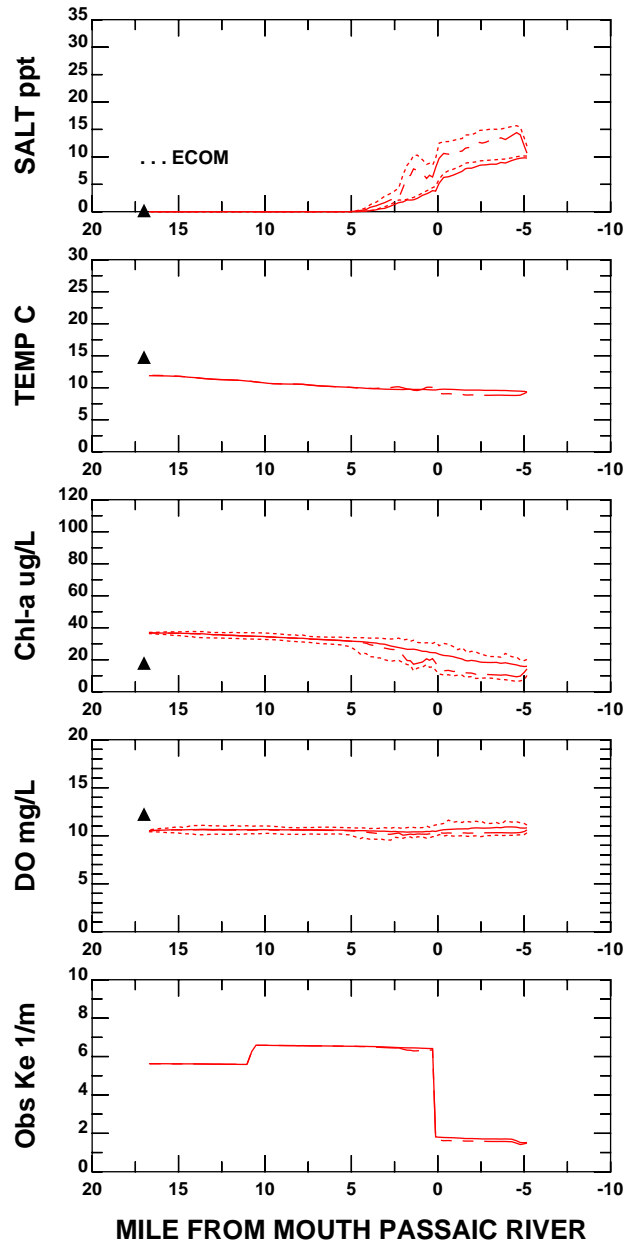


DATA  
NJHDG Apr 13,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



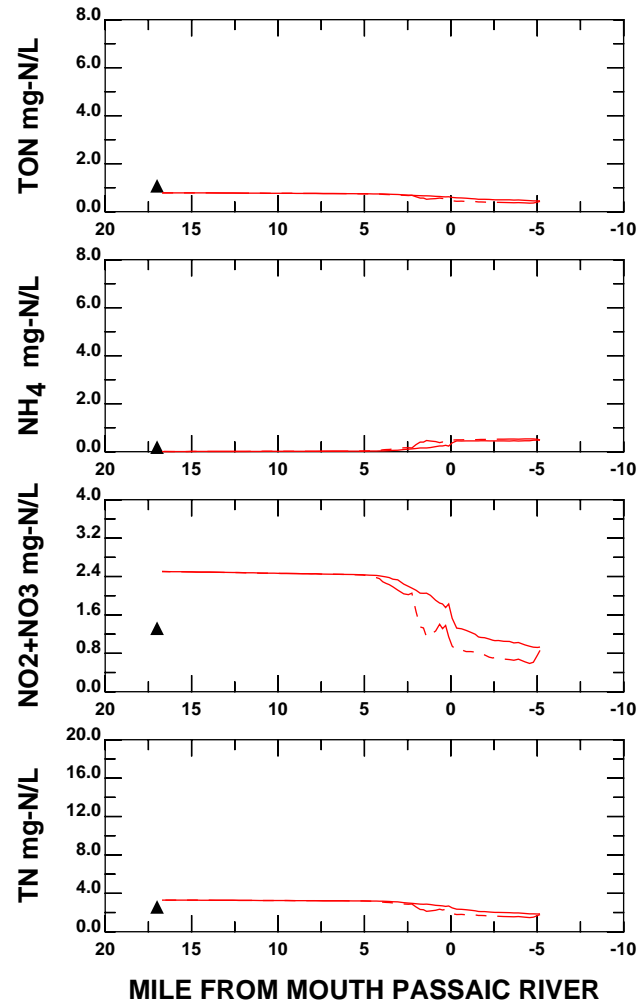
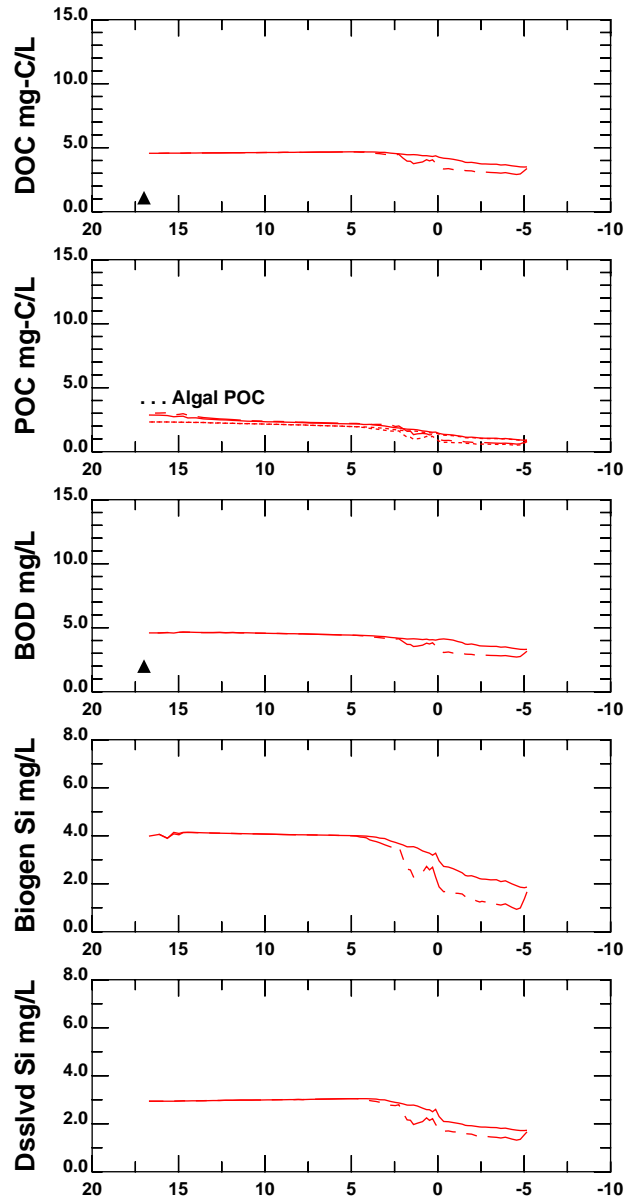
**DATA**  
NJHDG Apr 19,2005

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

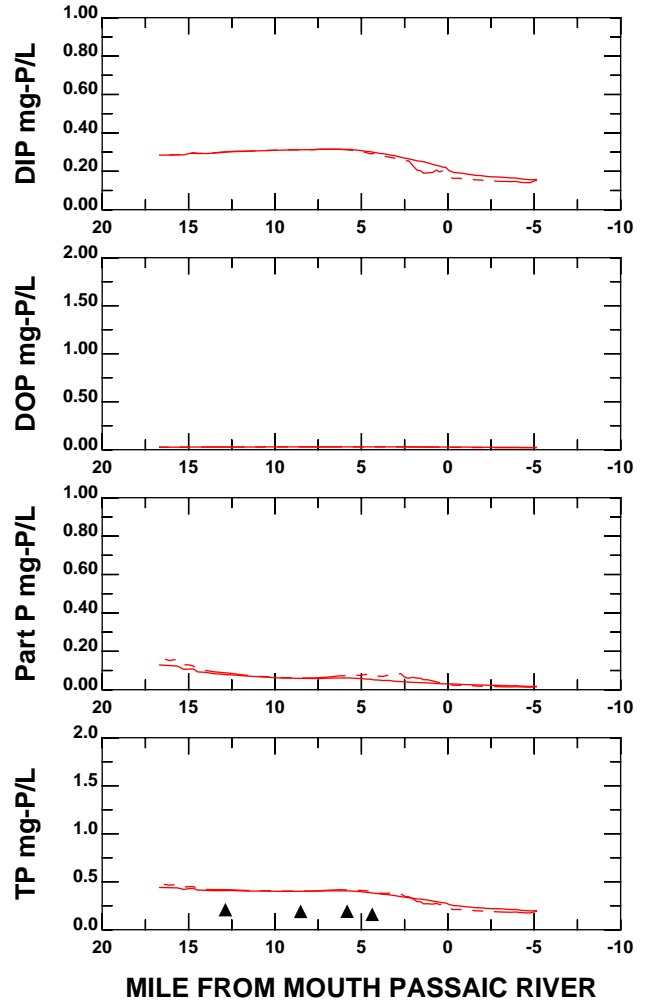
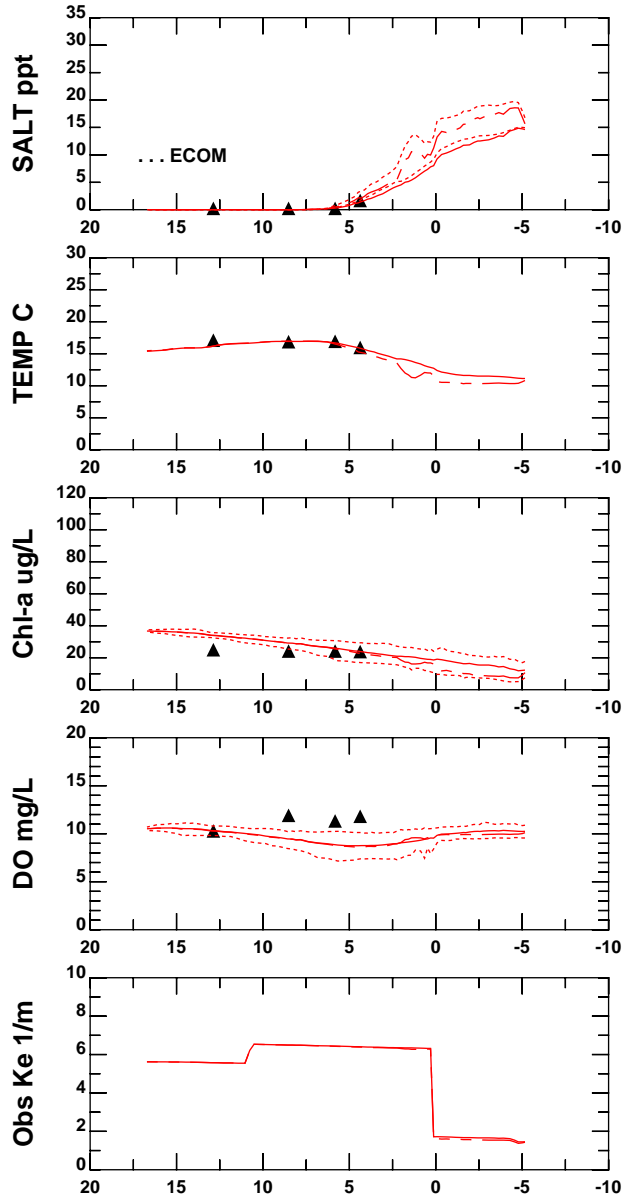


DATA  
NJHDG Apr 19,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



DATA

NJHDG Apr 21, 2005

MODEL

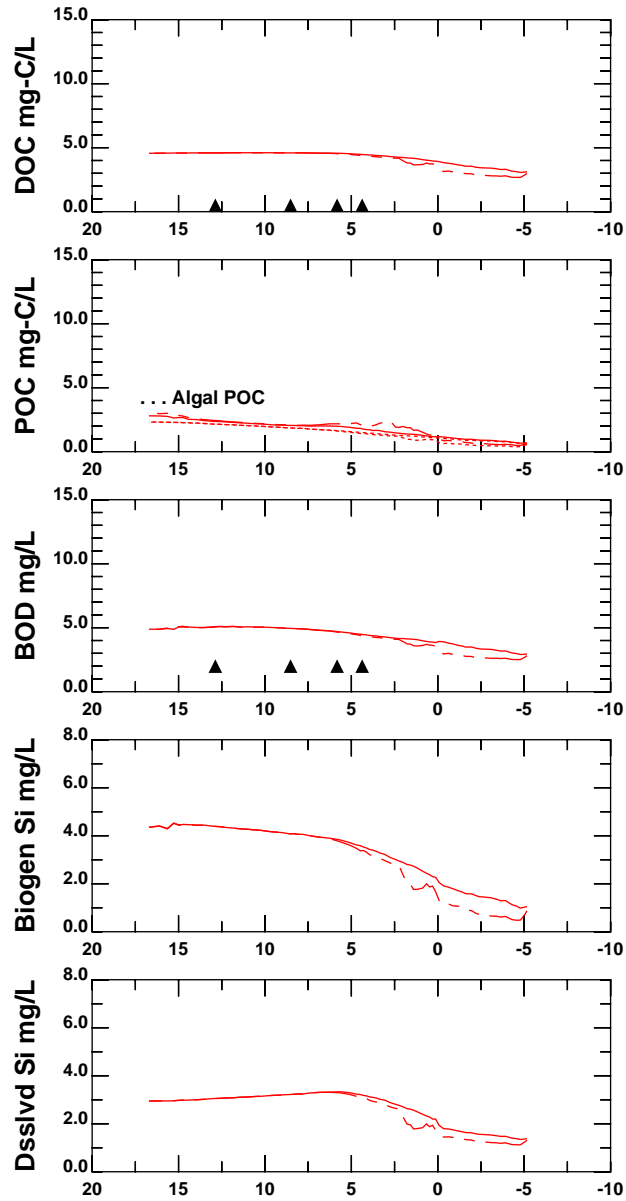
— Surface 5-Day Mean

- - - Bottom 5-Day Mean

- - - 5-Day Surface Max or Bottom Min

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

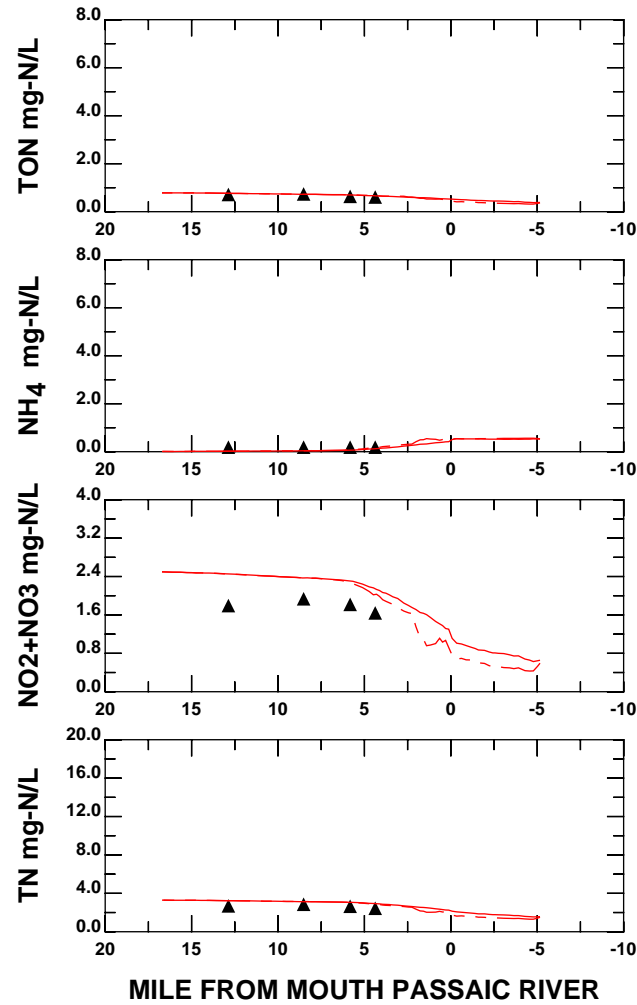
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



#### DATA

NJHDG Apr 21,2005

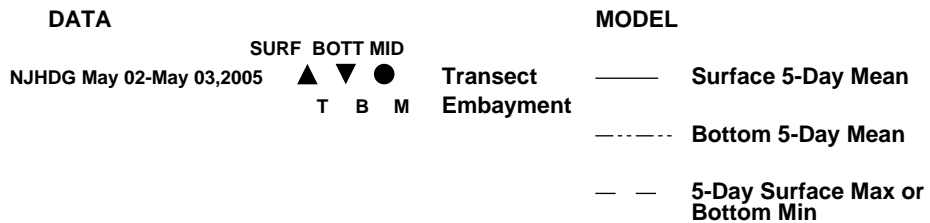
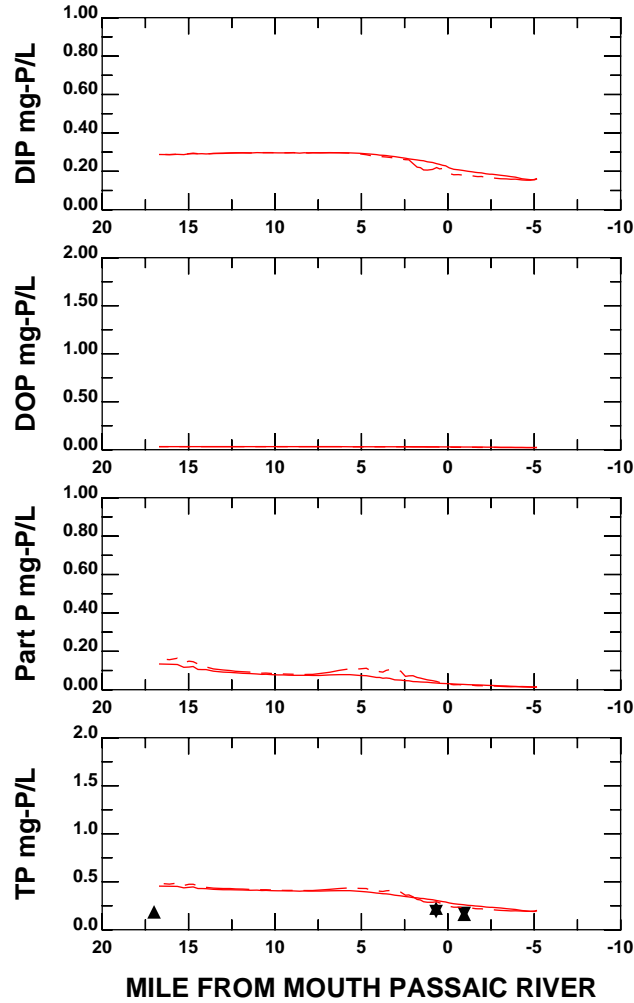
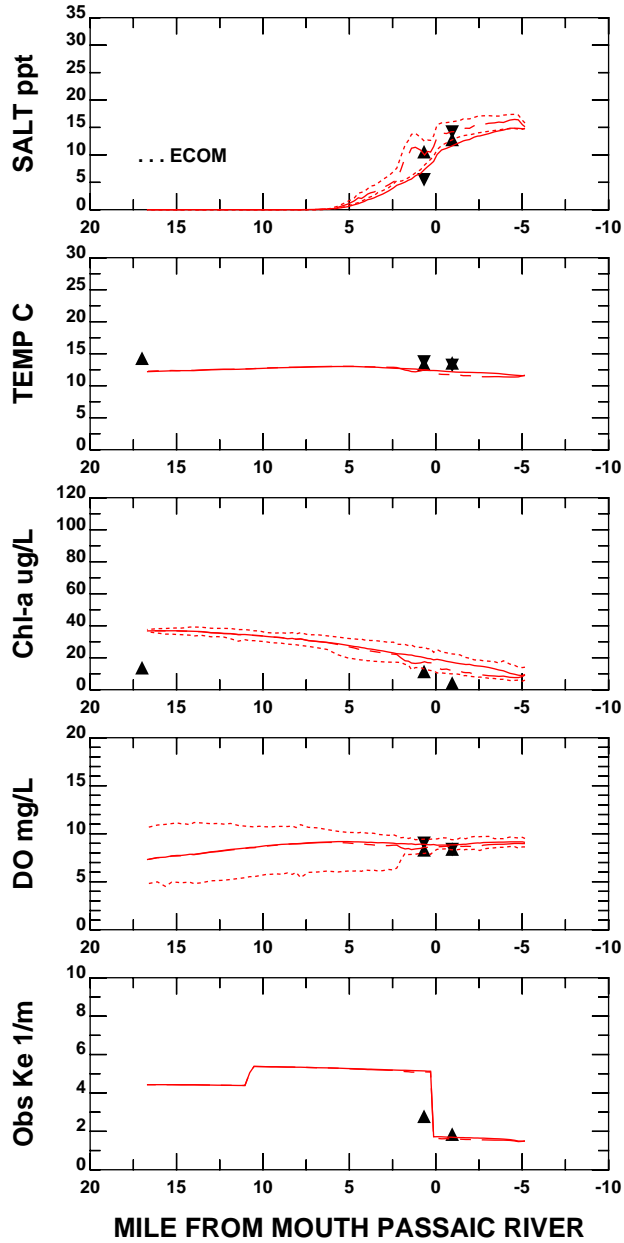
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

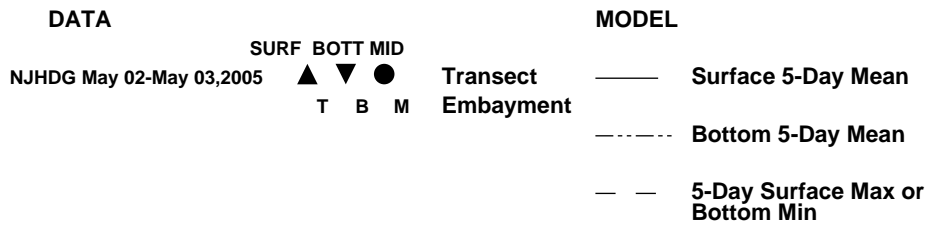
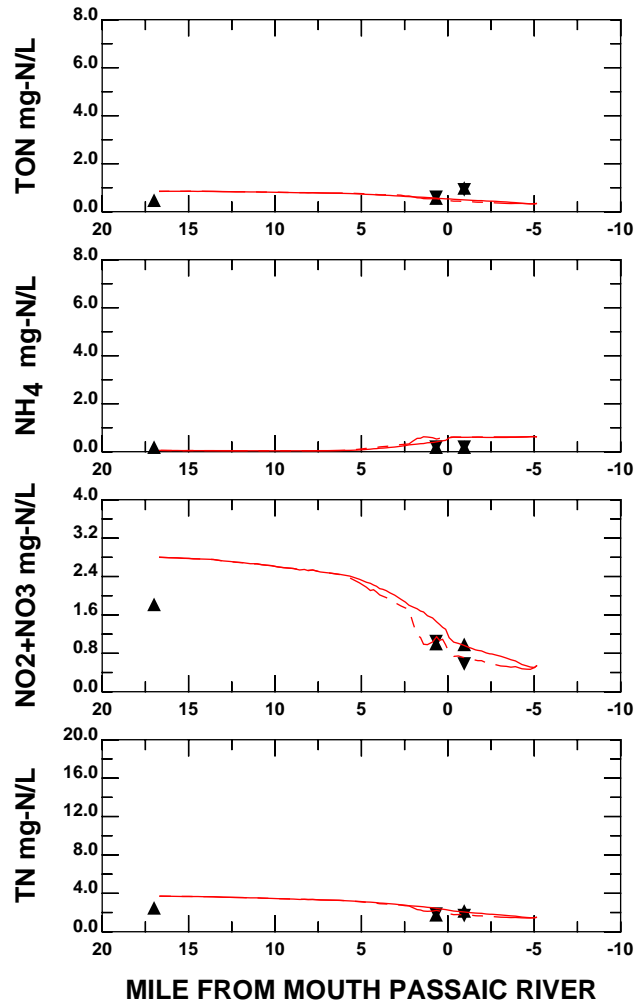
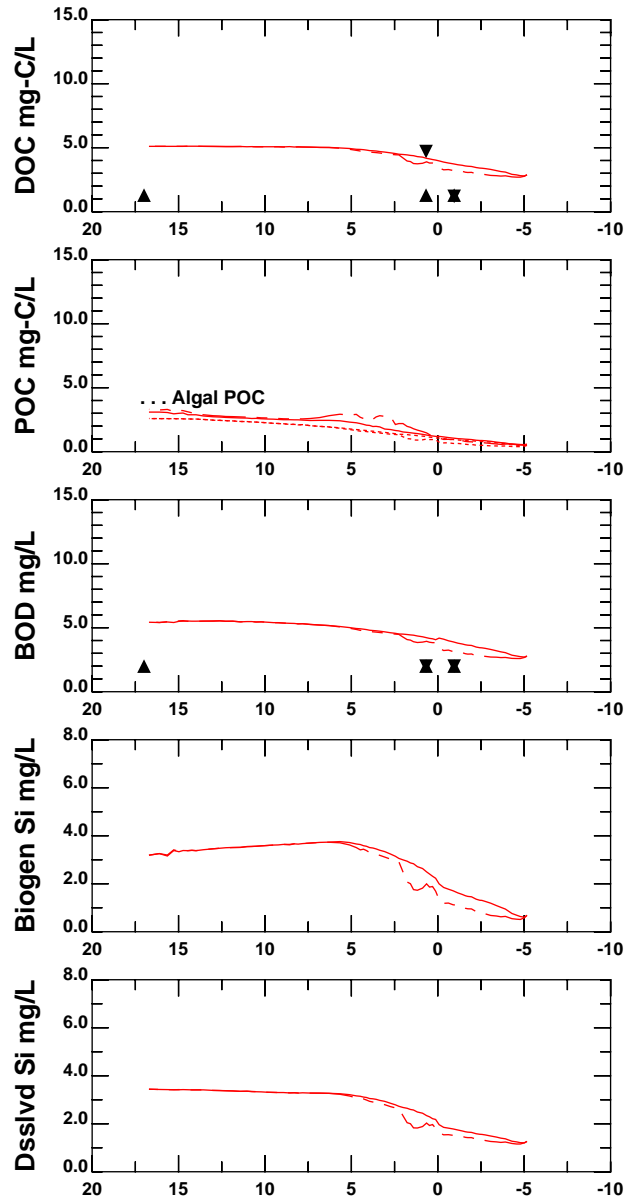
#### MODEL

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

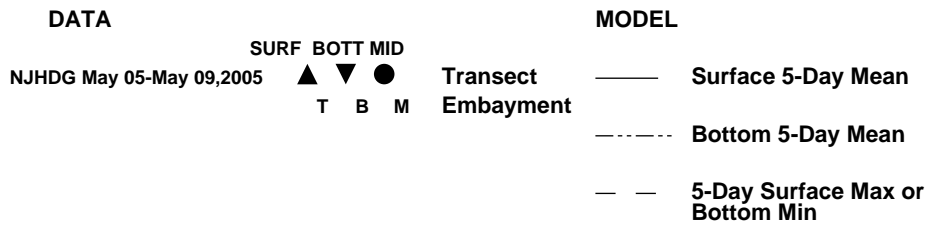
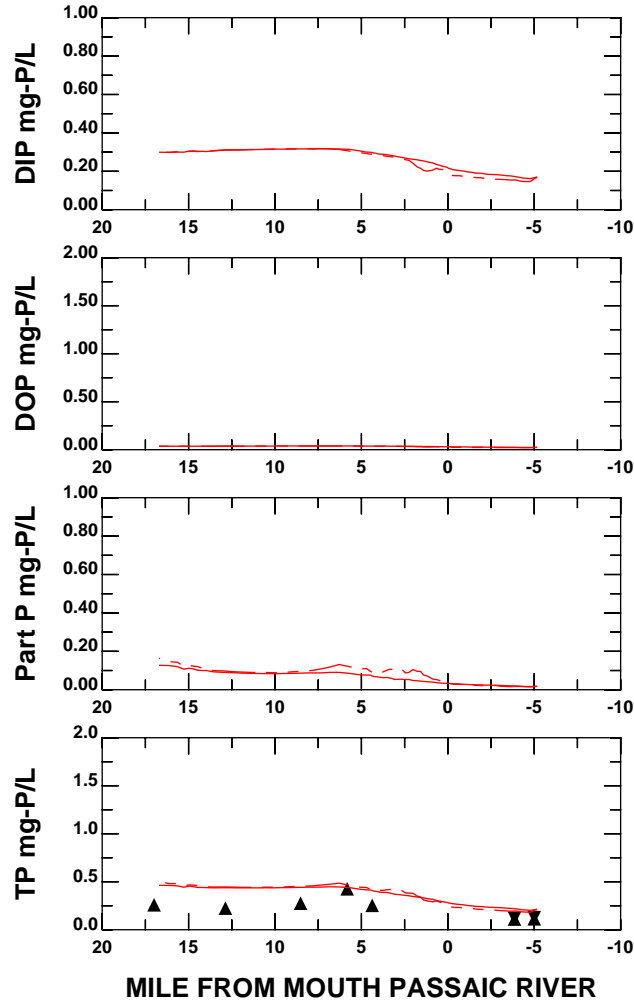
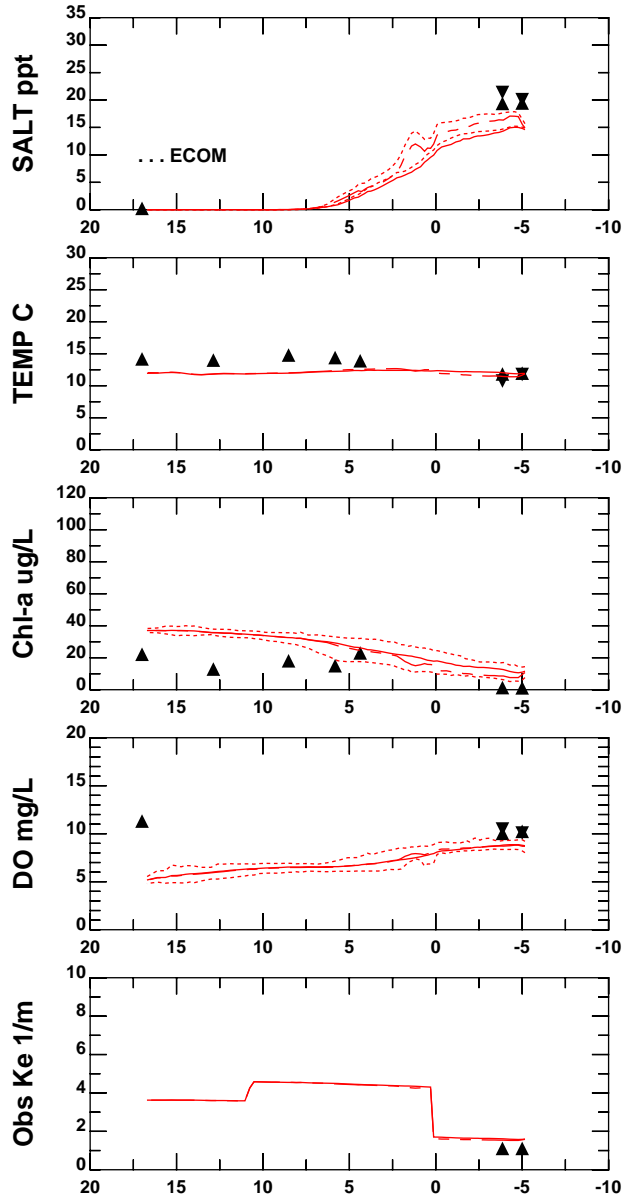


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

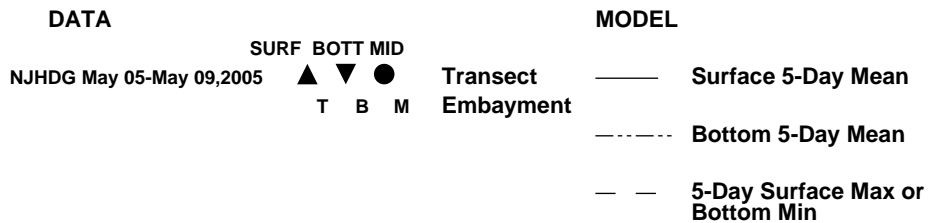
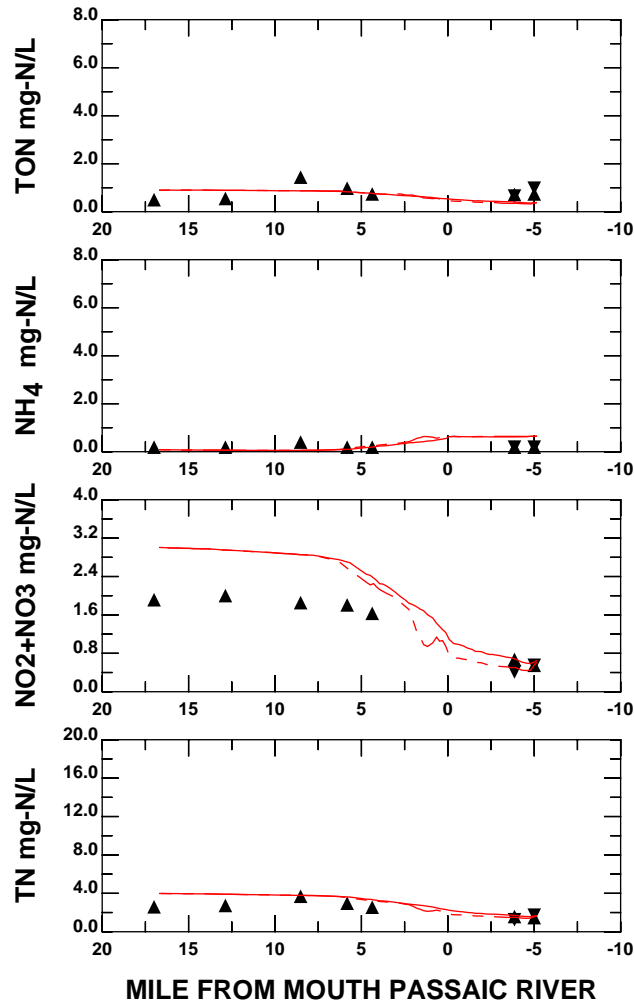
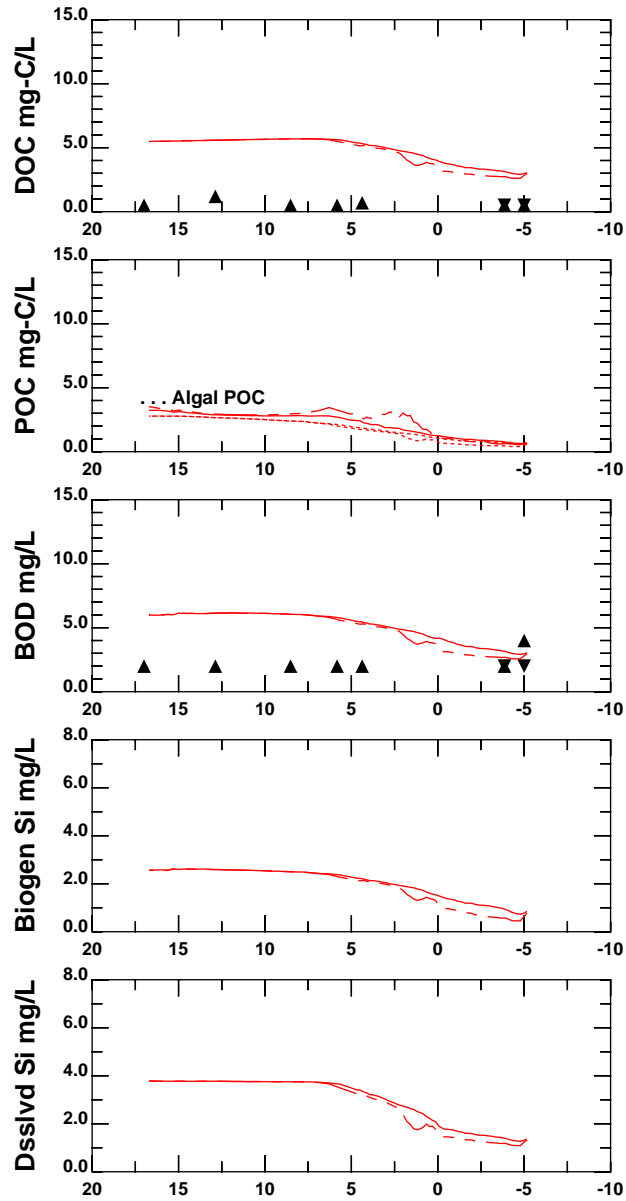




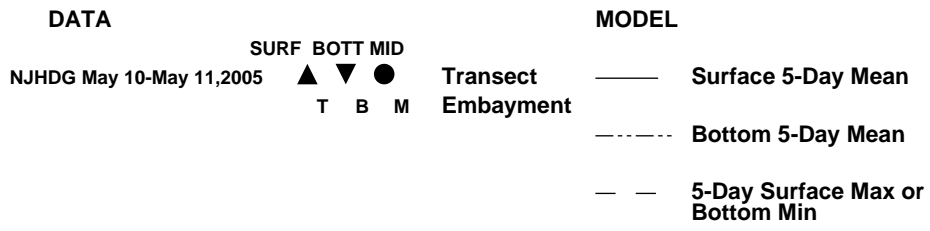
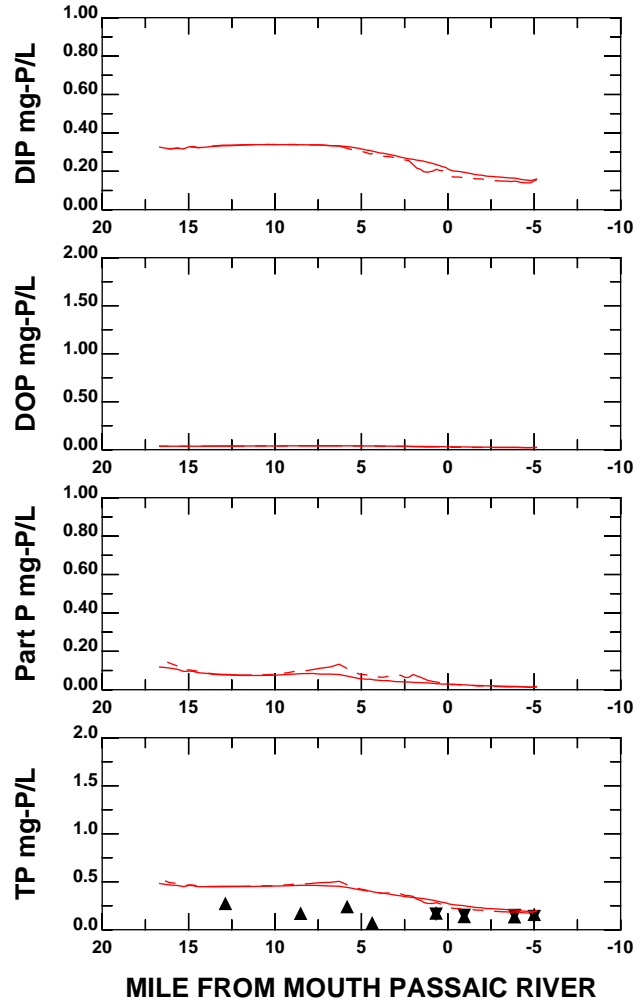
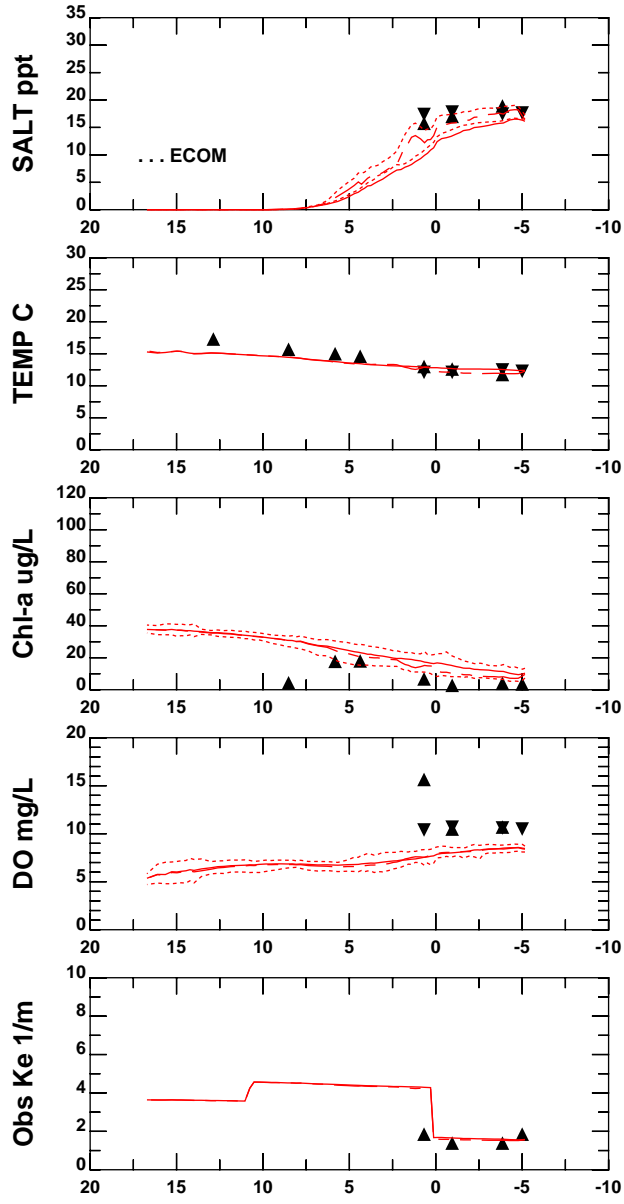
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



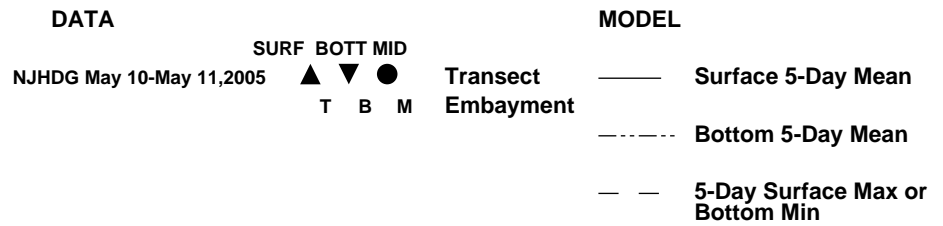
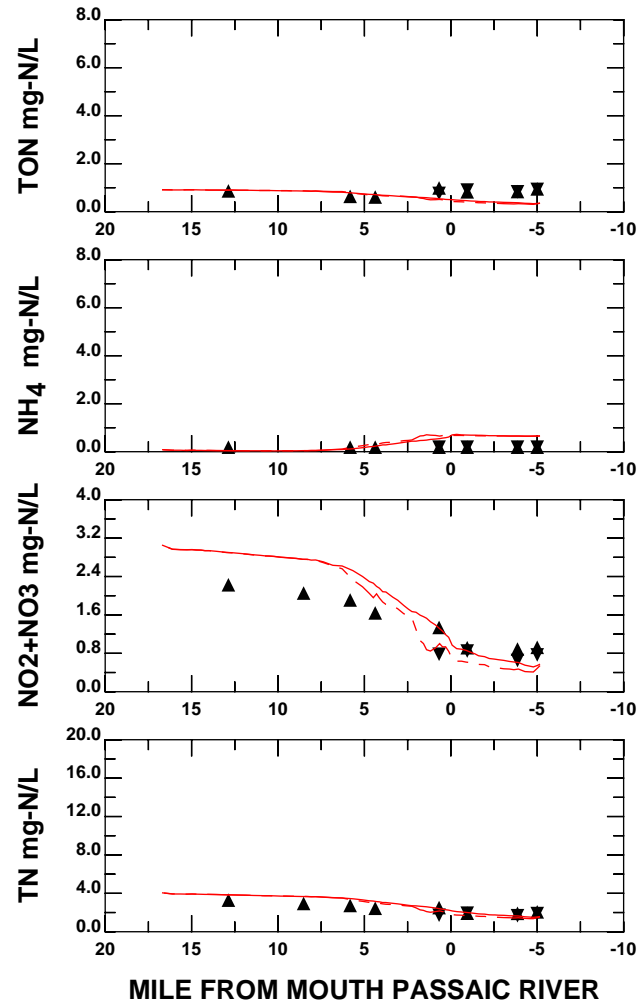
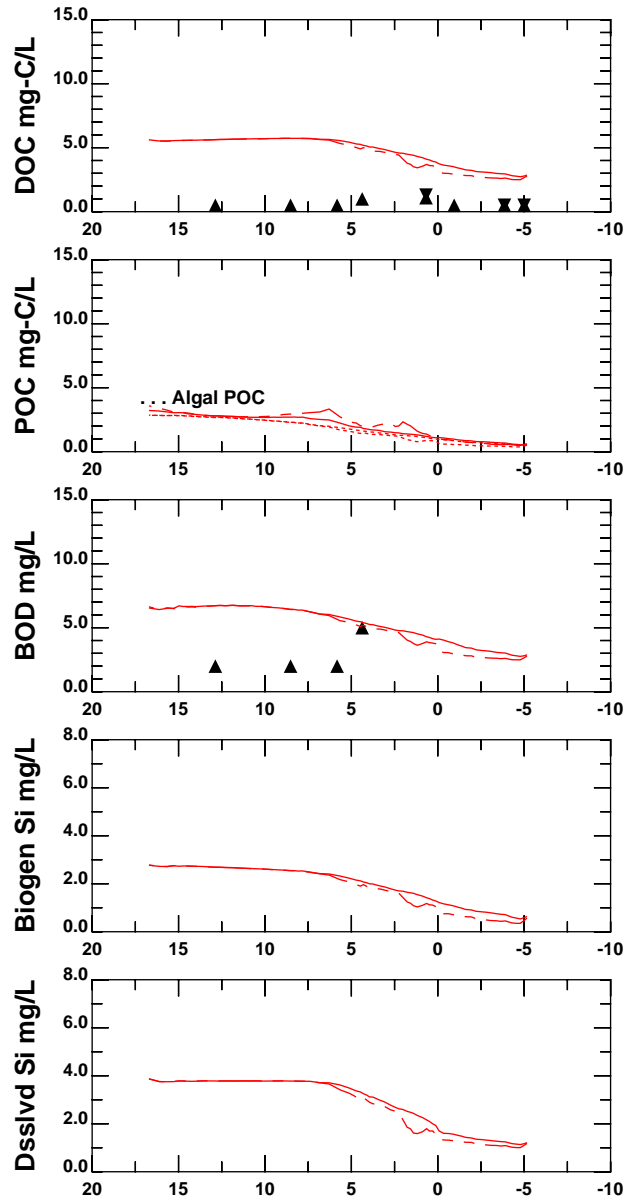
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



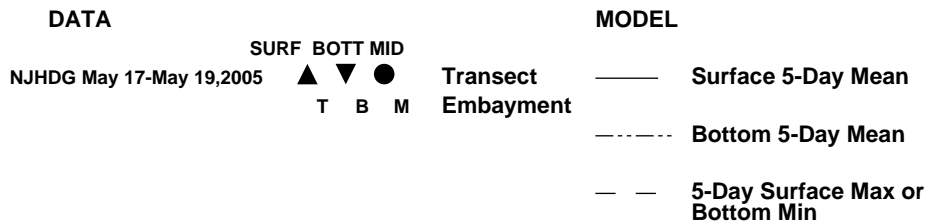
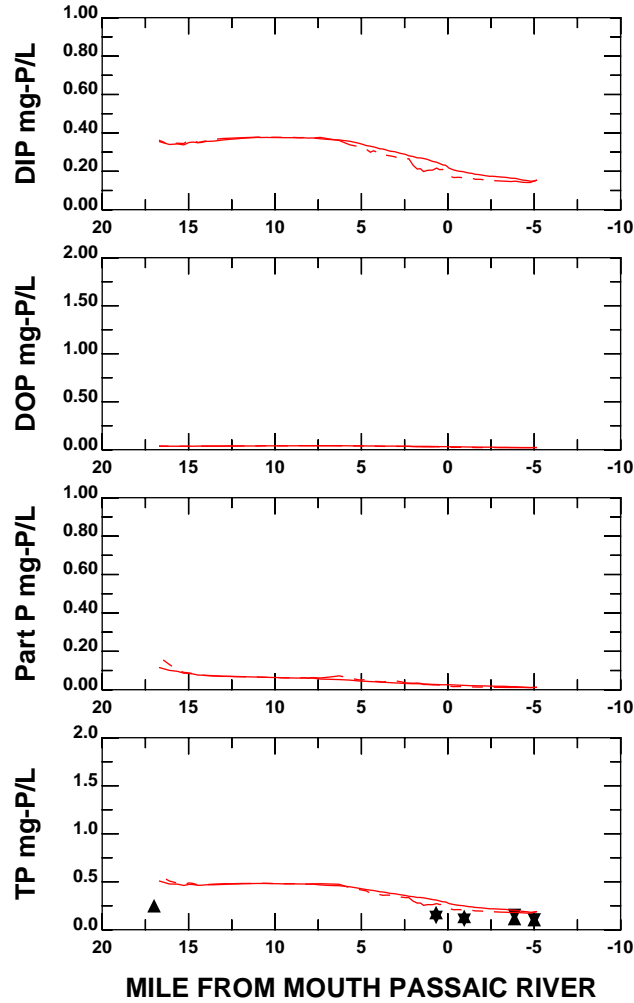
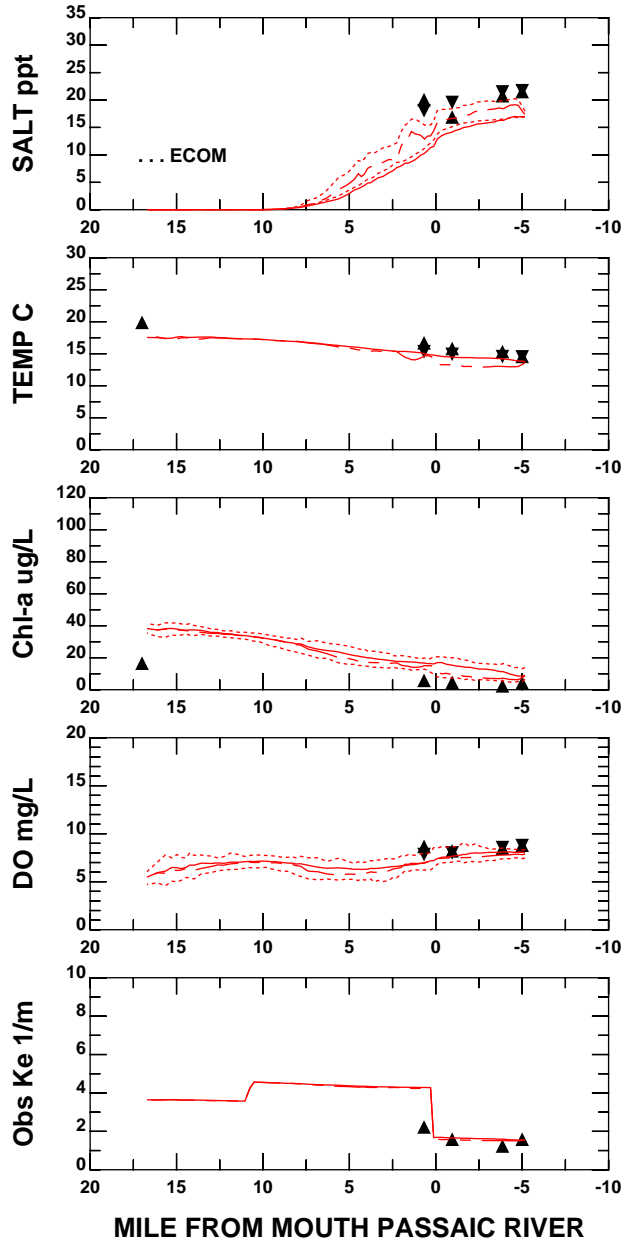
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



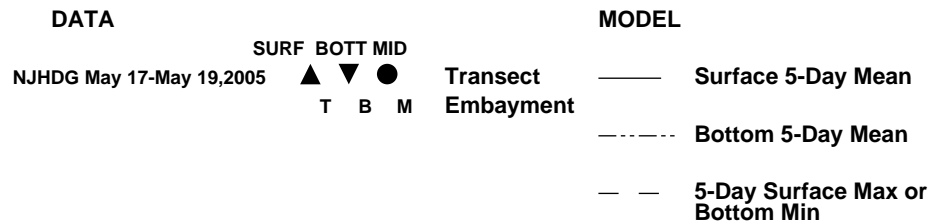
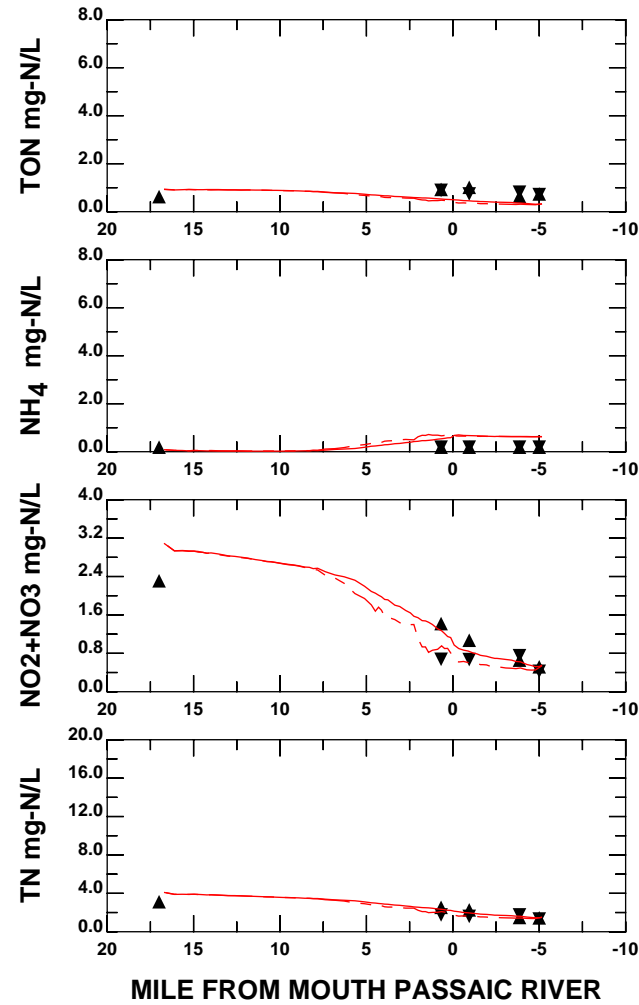
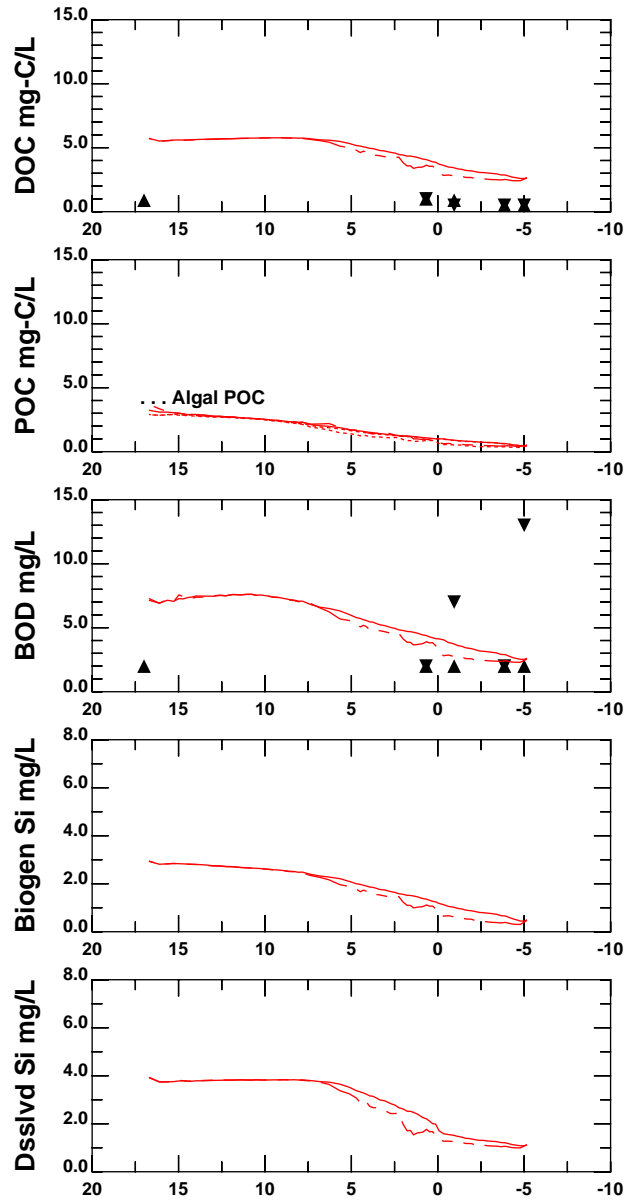
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



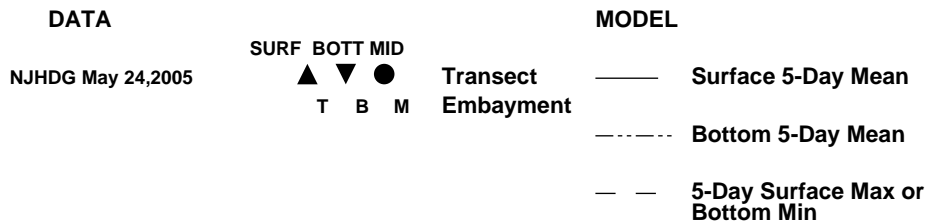
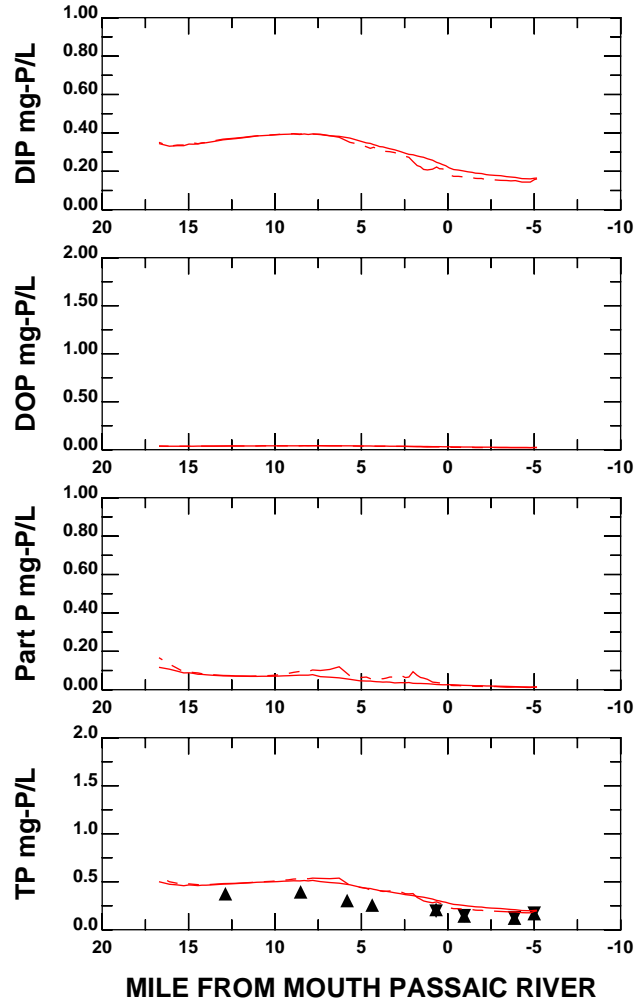
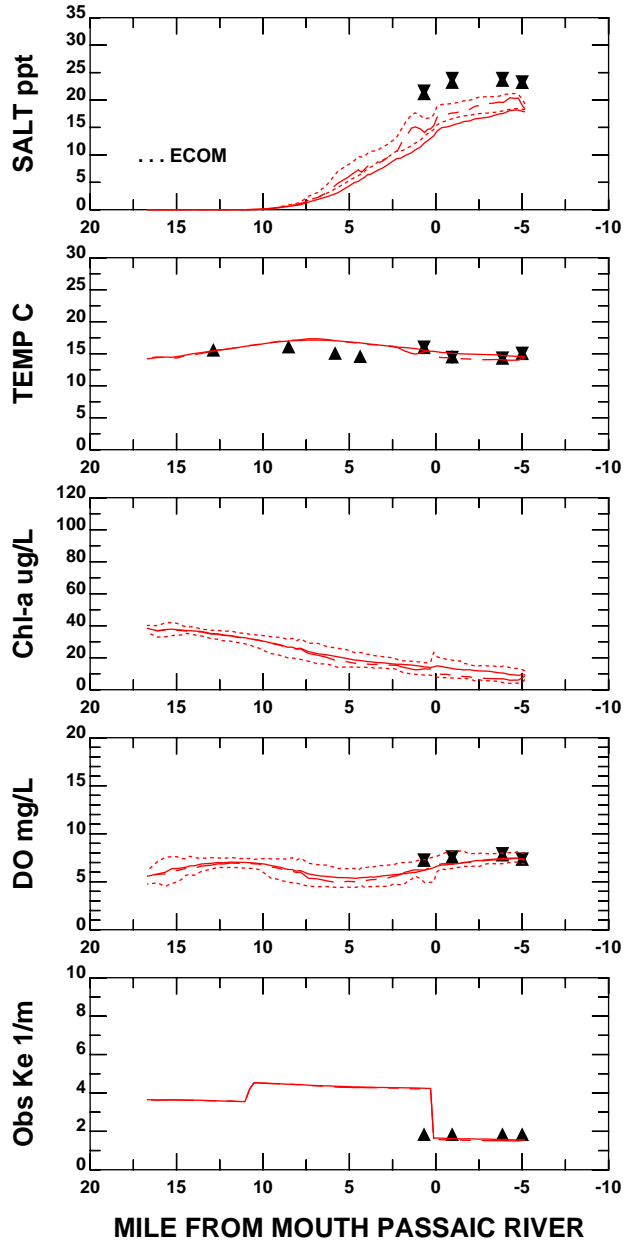
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

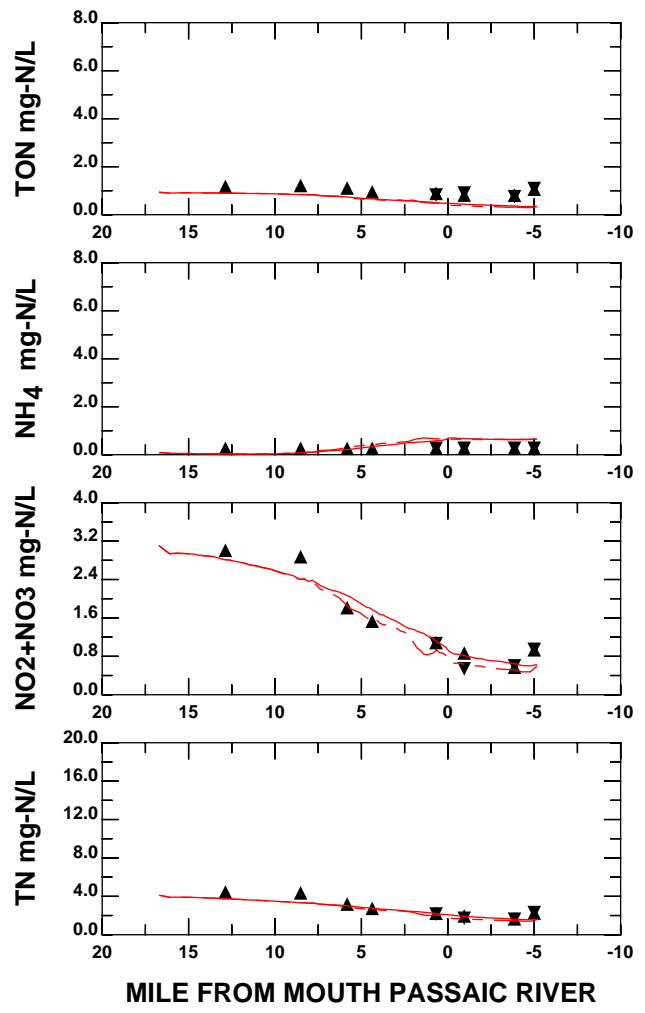
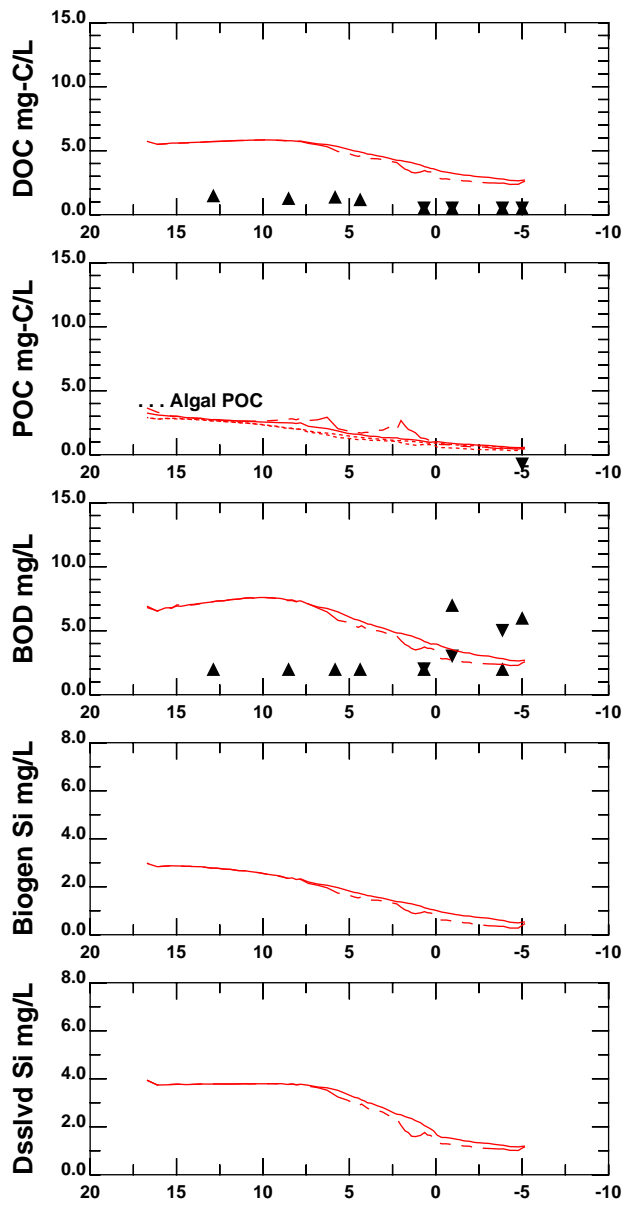


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405





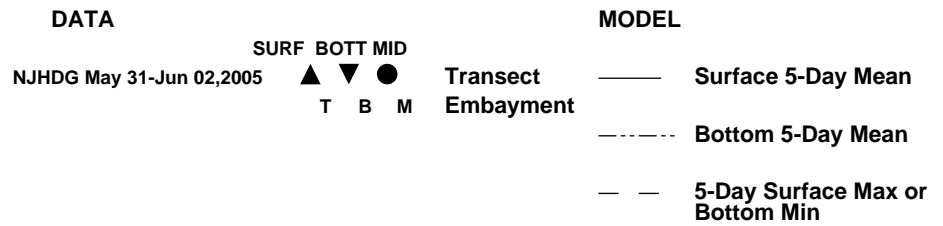
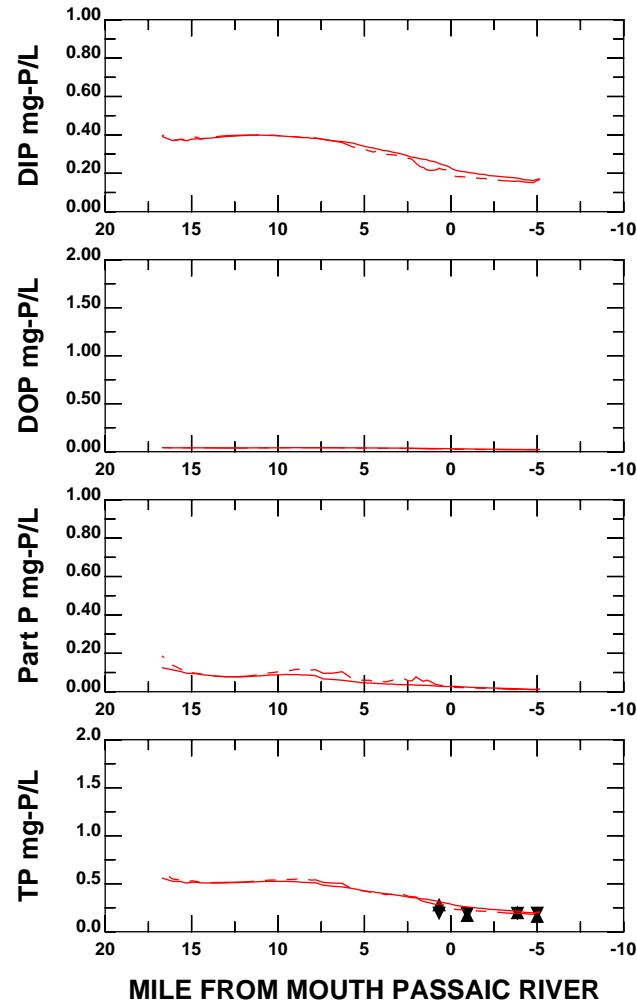
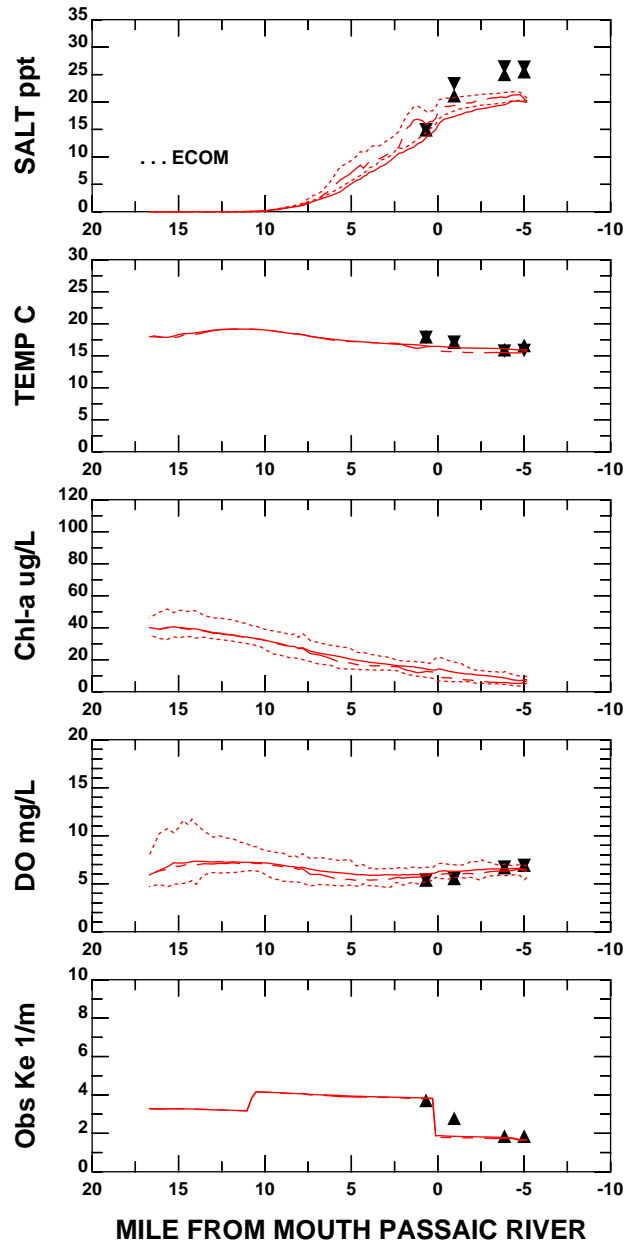
DATA  
NJHDG May 24,2005

MODEL

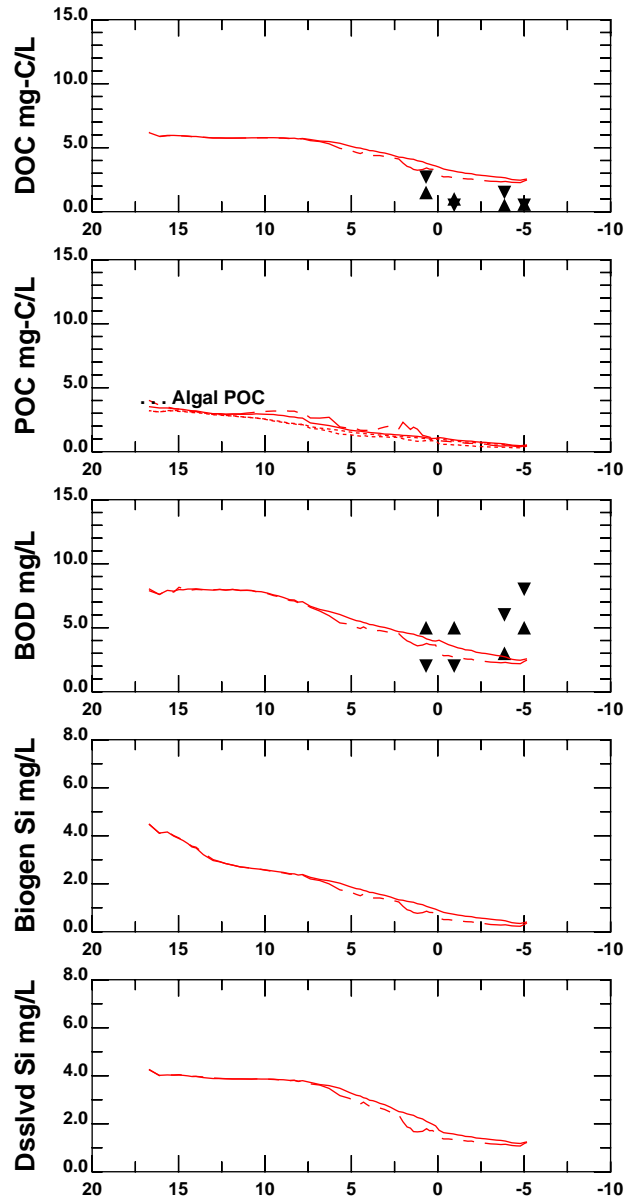
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



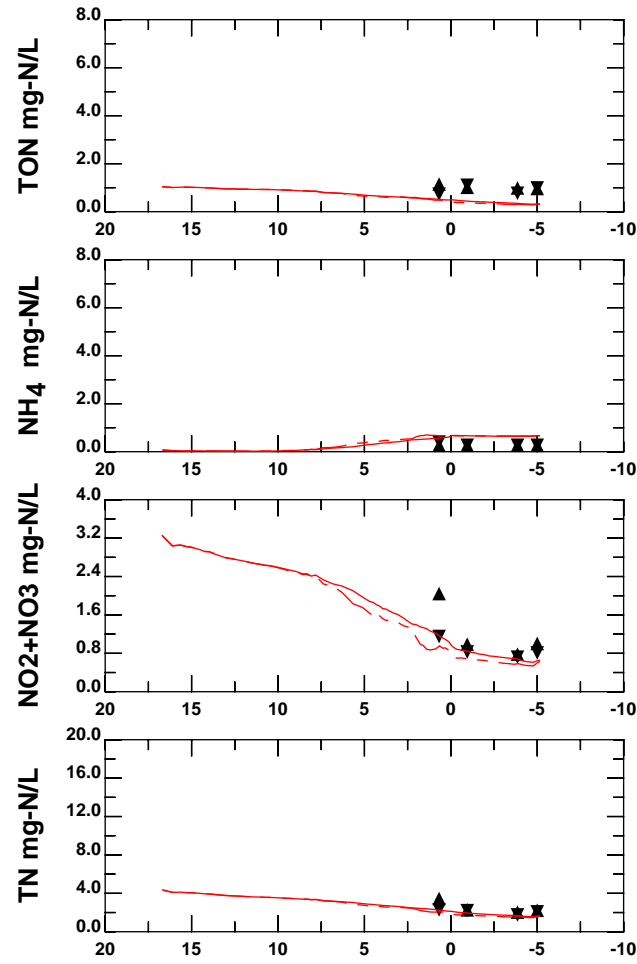
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



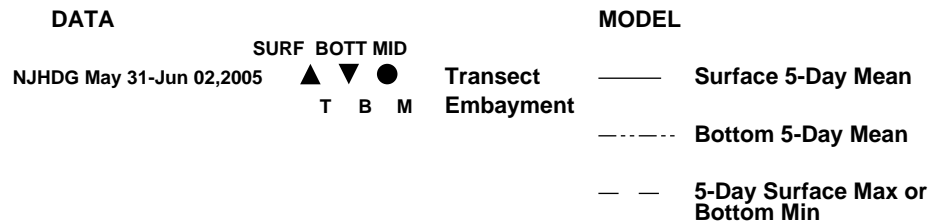
MILE FROM MOUTH PASSAIC RIVER

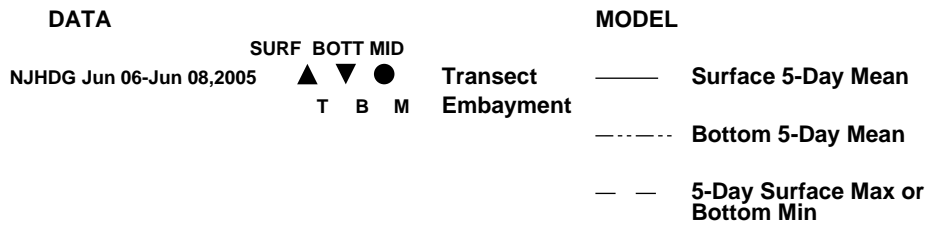
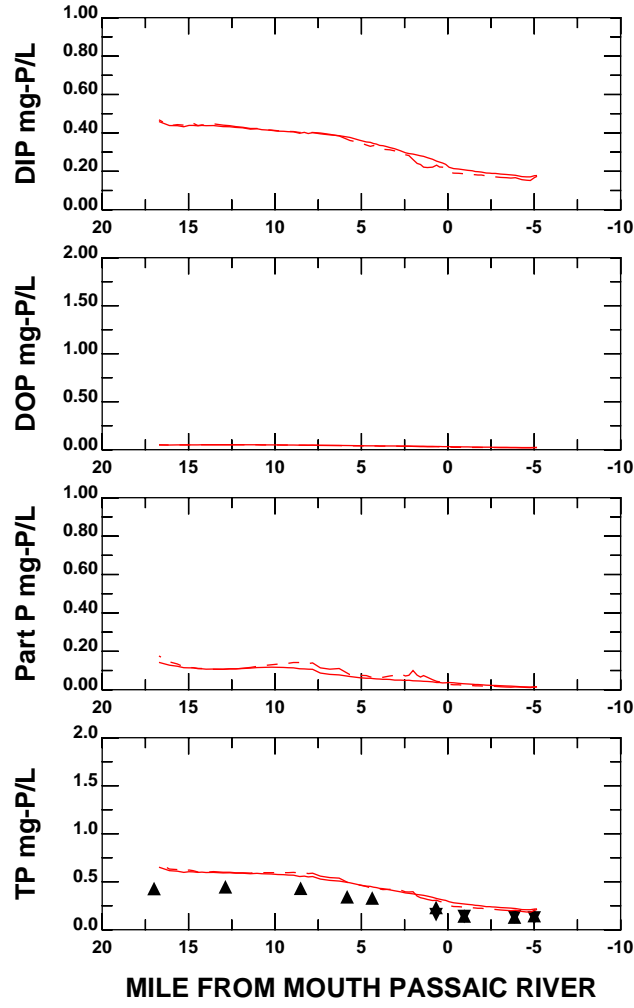
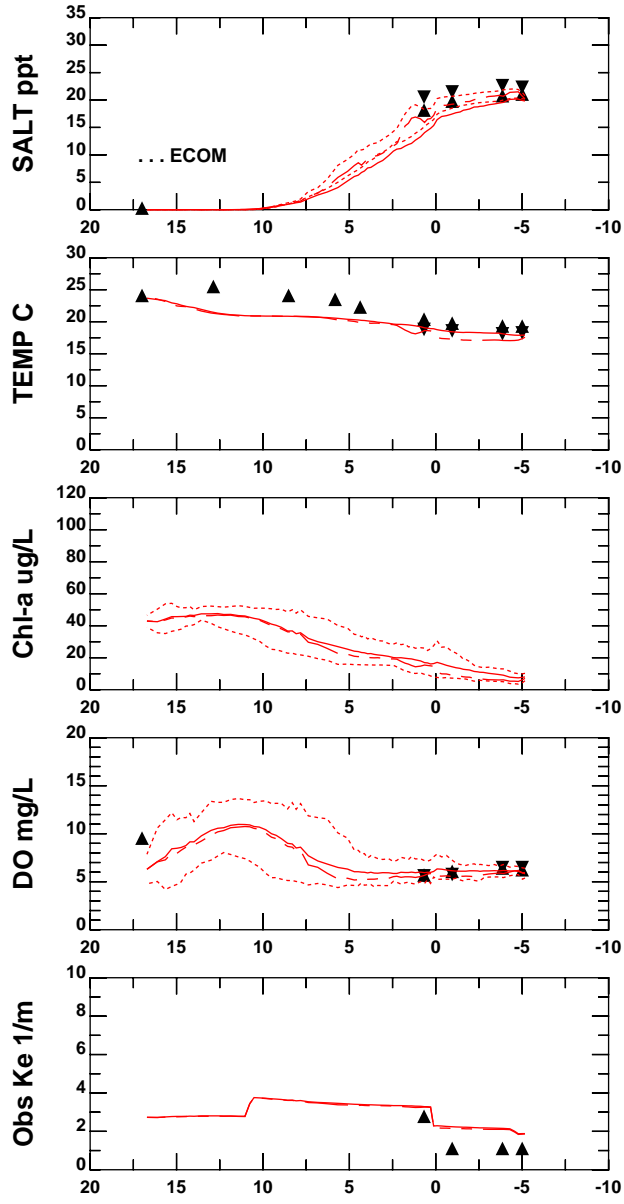
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405

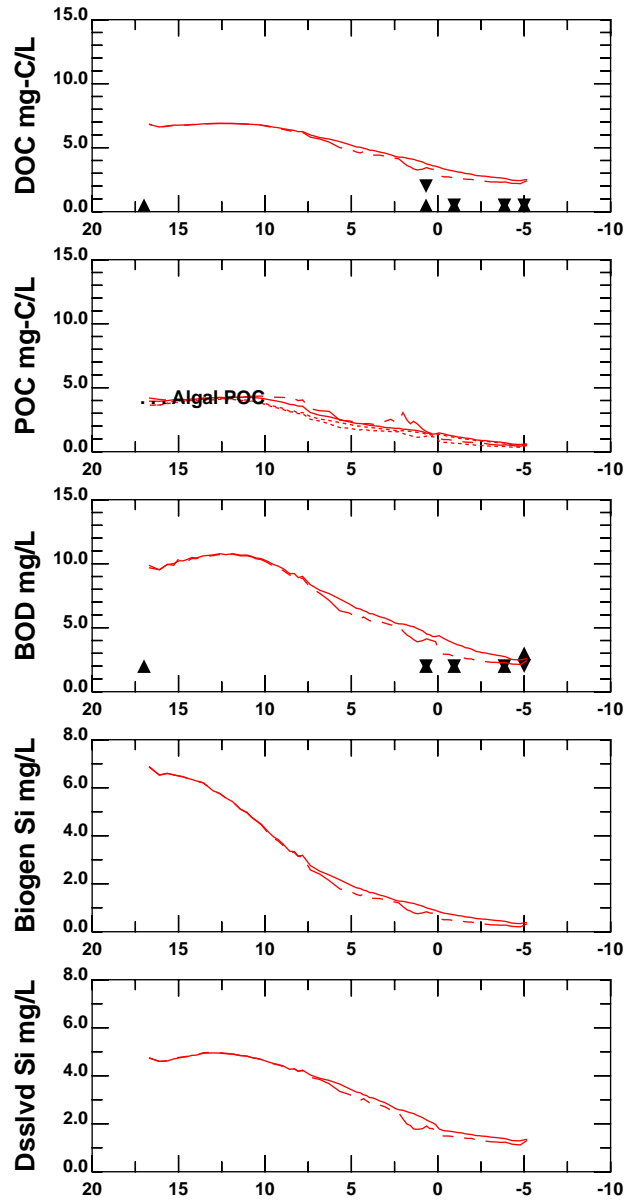


MILE FROM MOUTH PASSAIC RIVER





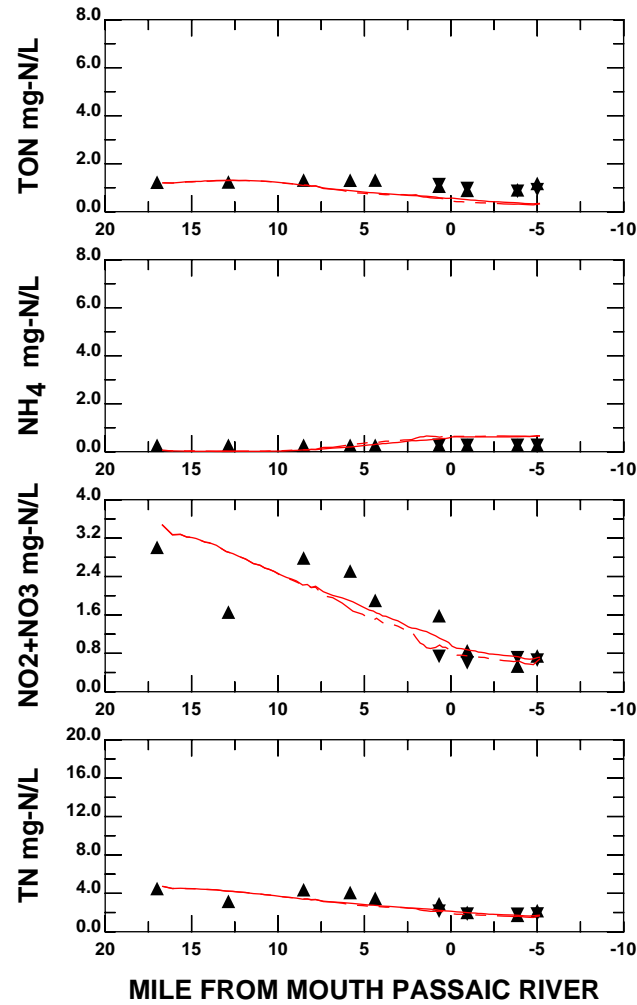
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



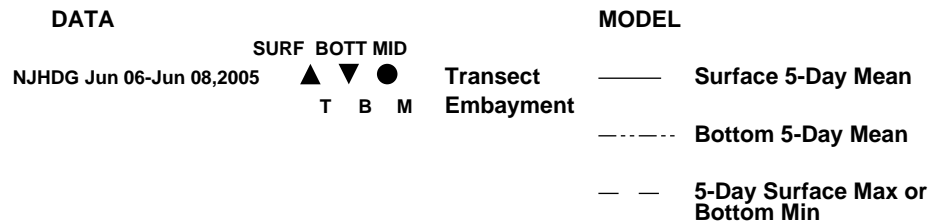
MILE FROM MOUTH PASSAIC RIVER

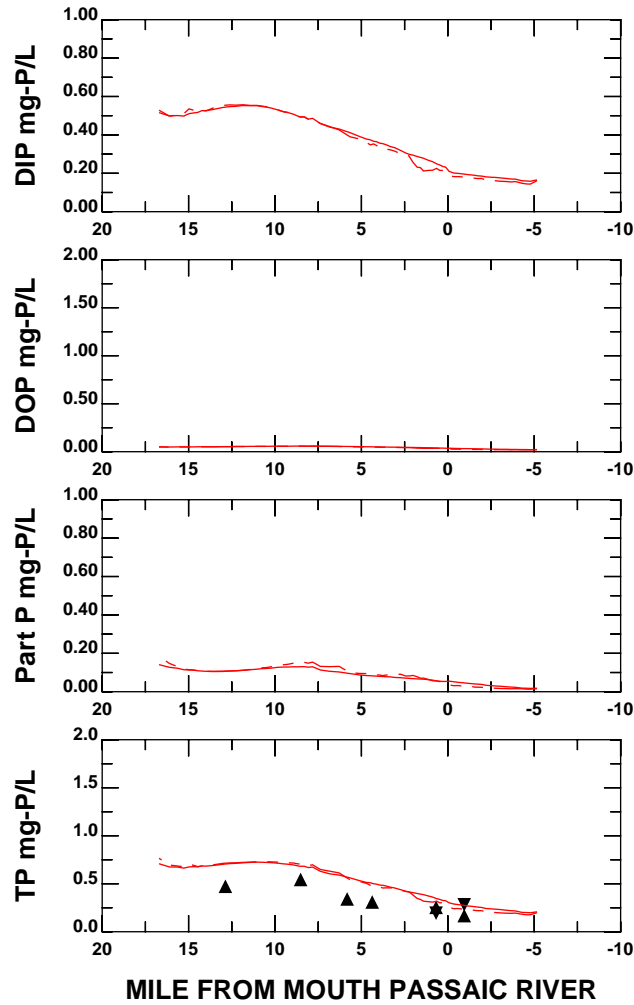
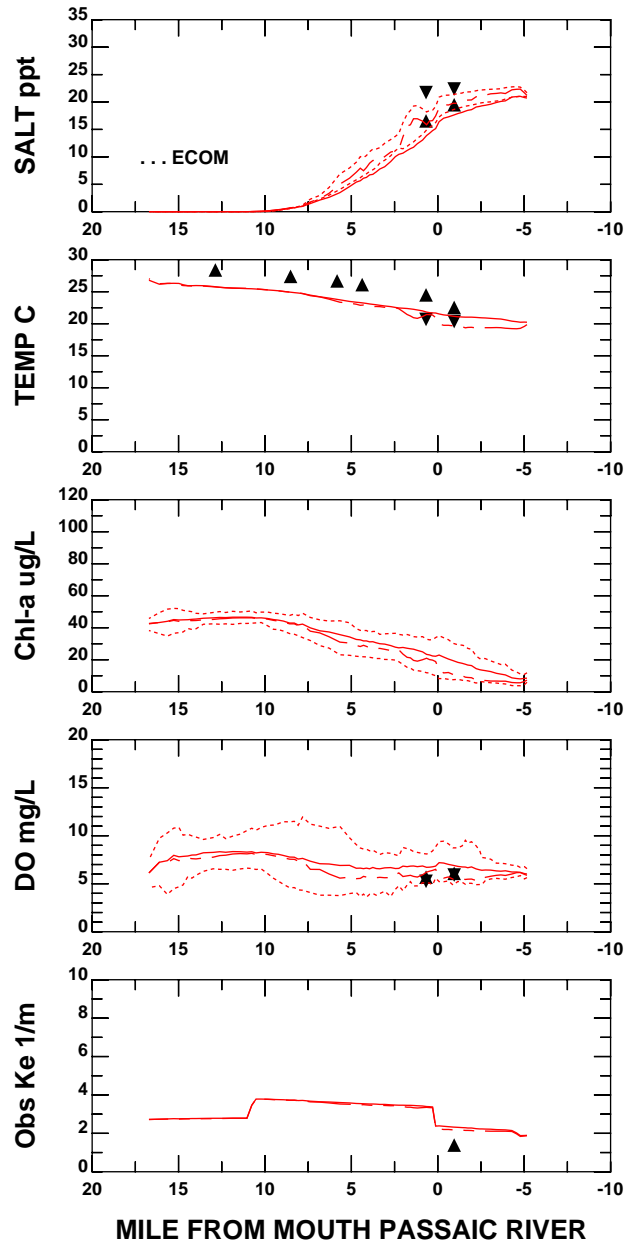
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER





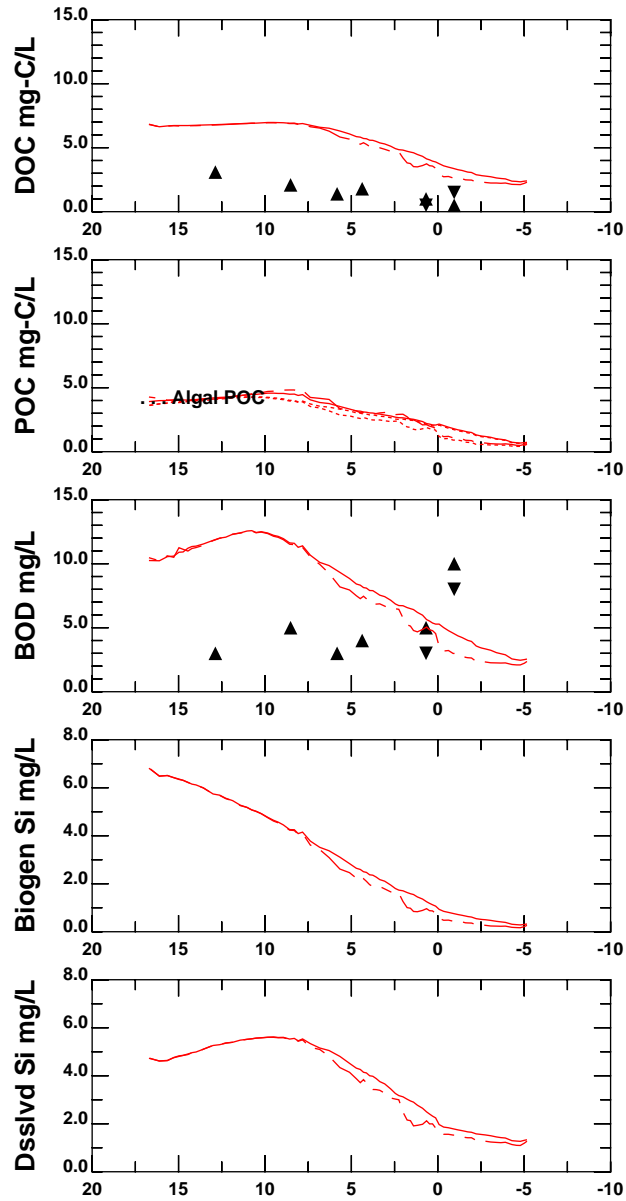
**DATA**  
NJHDG Jun 13,2005

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

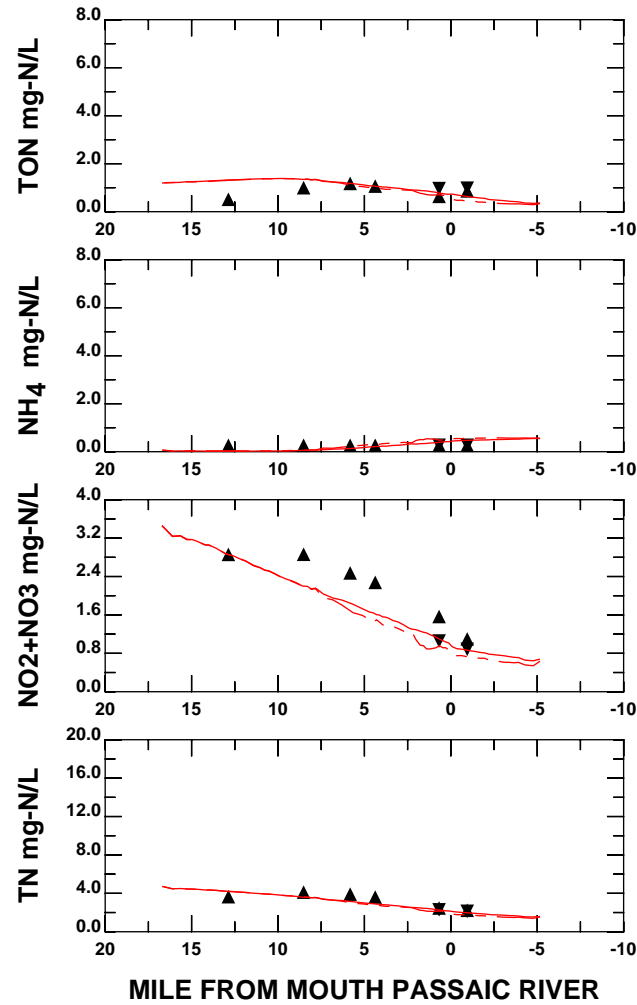
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



#### DATA

NJHDG Jun 13,2005

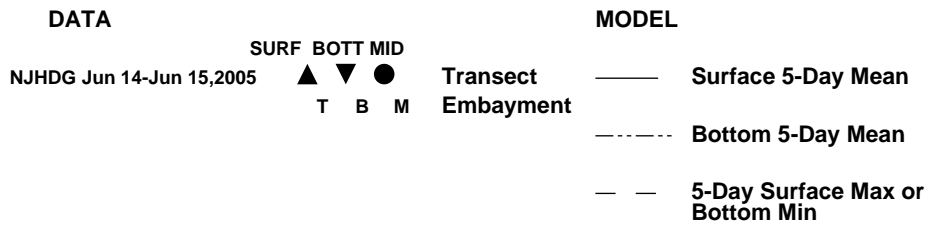
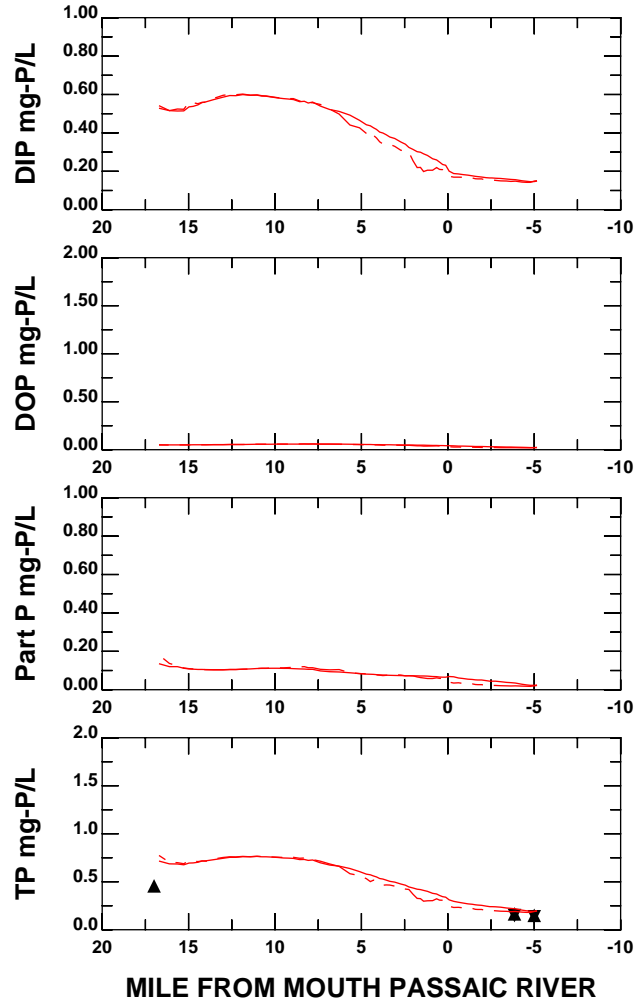
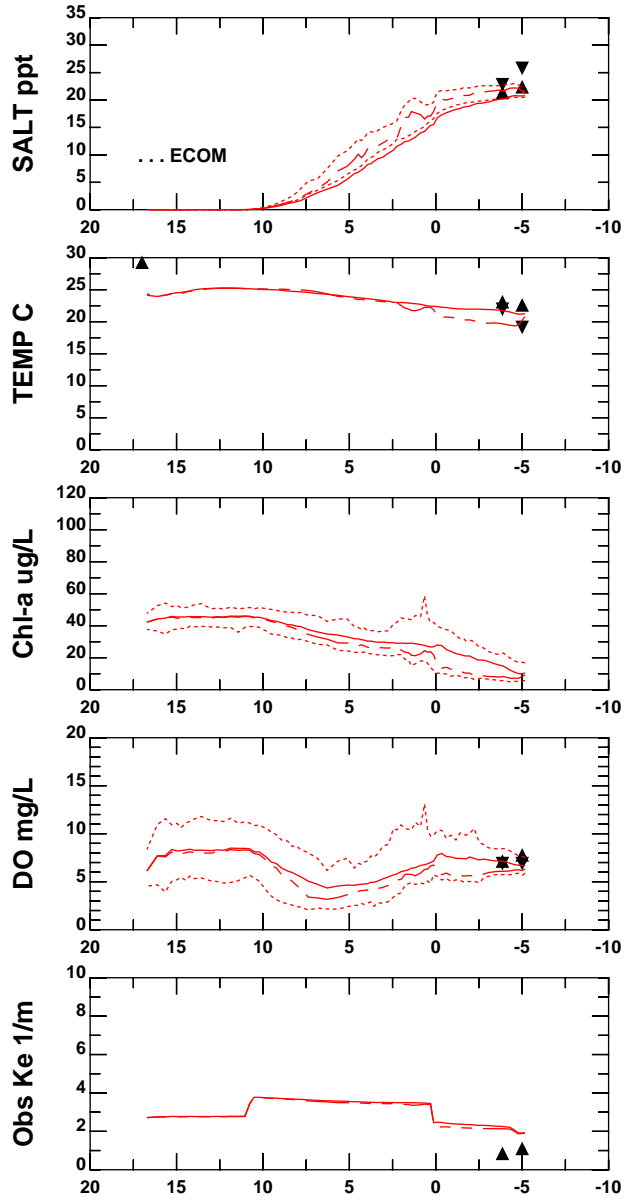
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

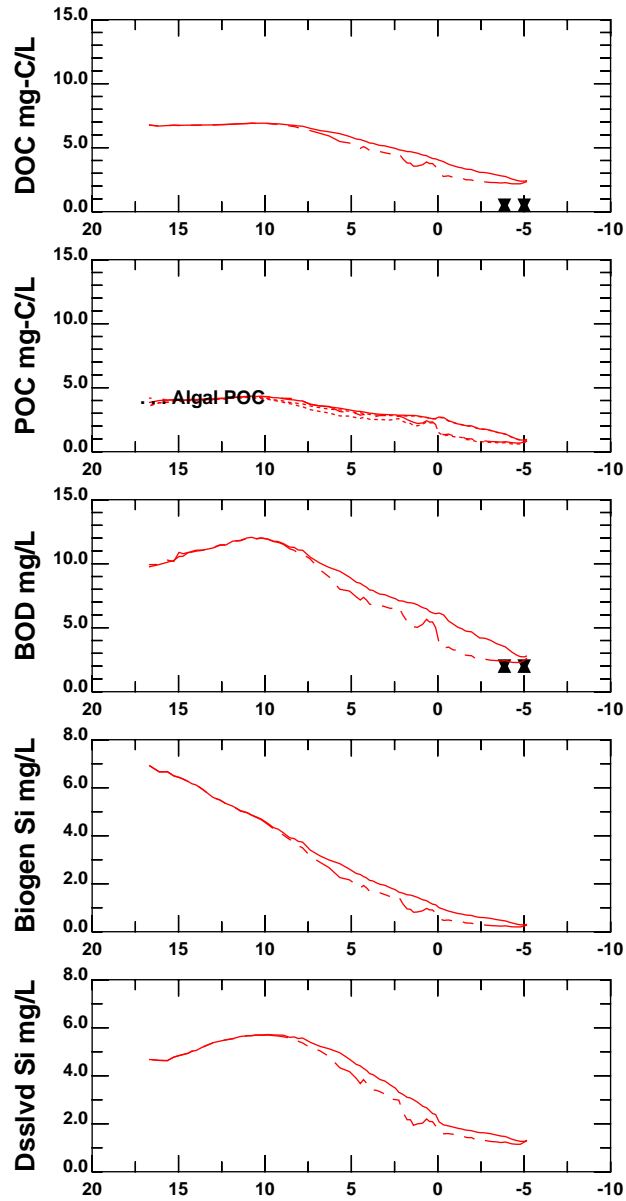
#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

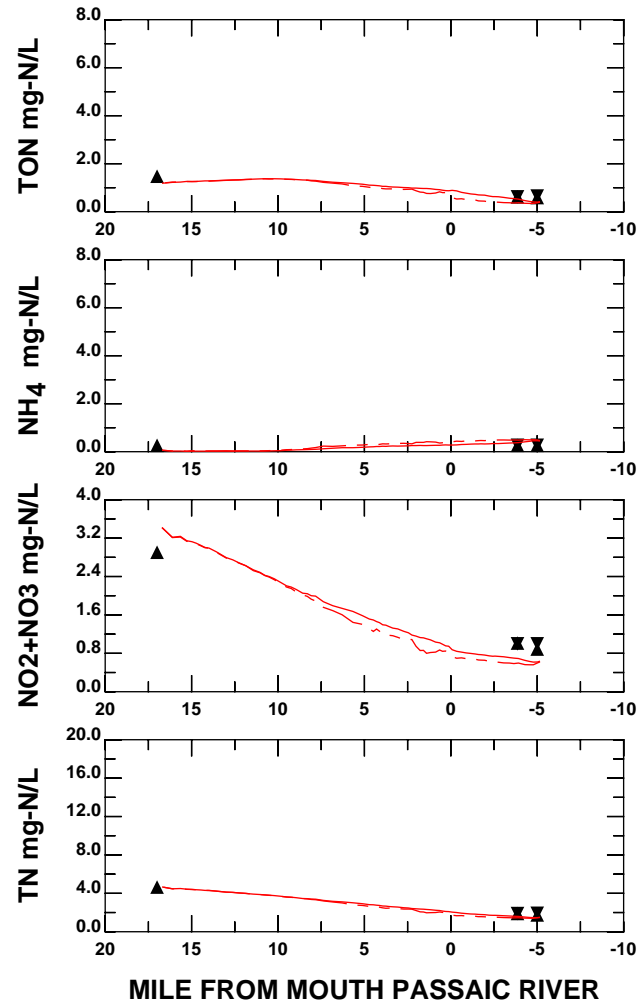




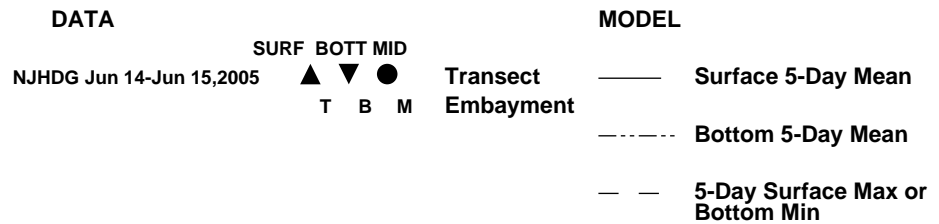
MILE FROM MOUTH PASSAIC RIVER

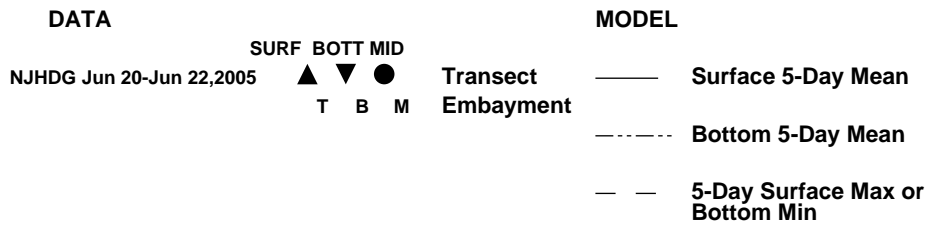
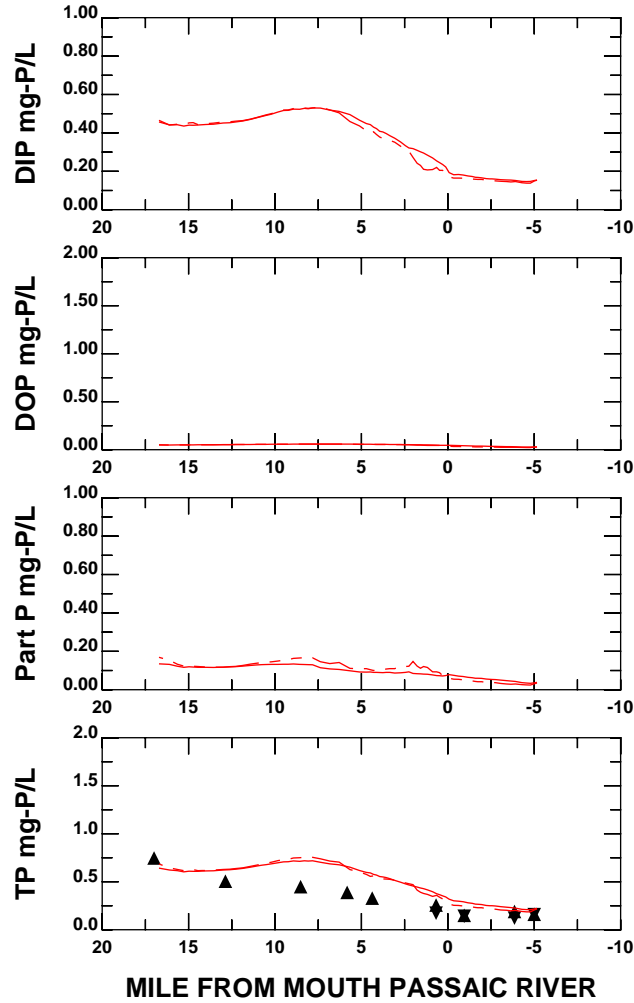
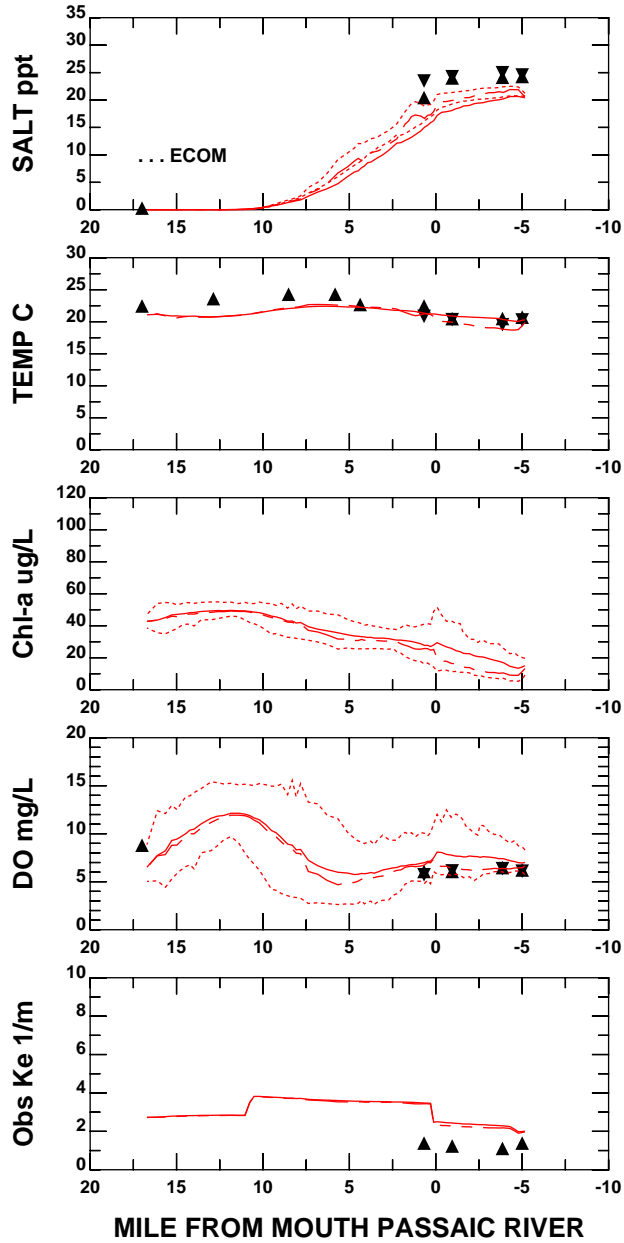
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405

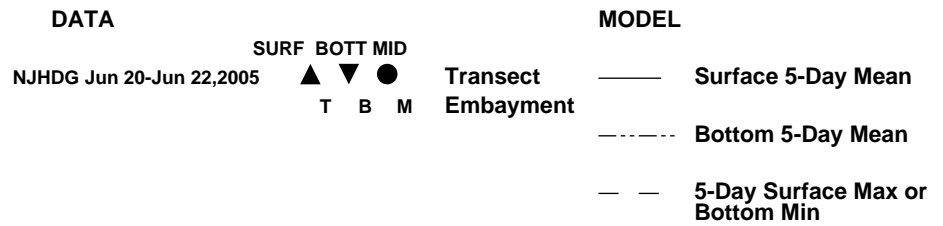
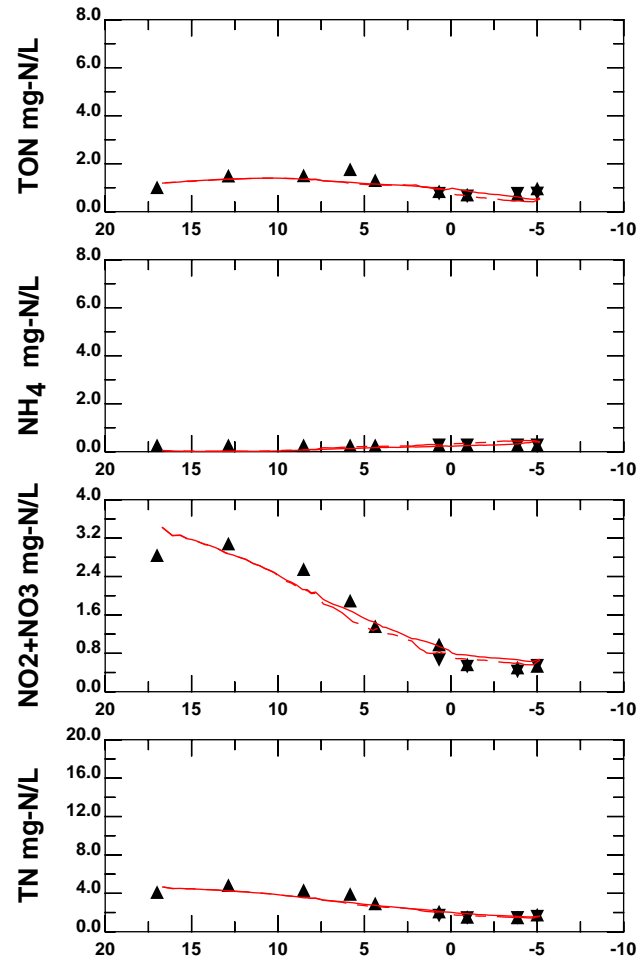
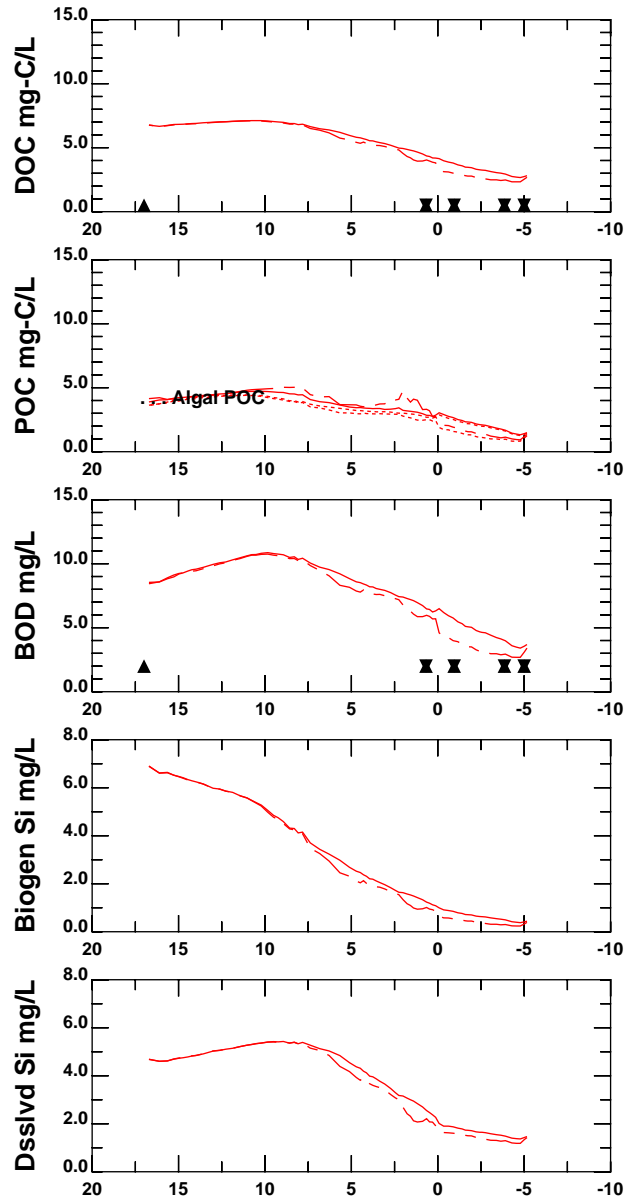


MILE FROM MOUTH PASSAIC RIVER

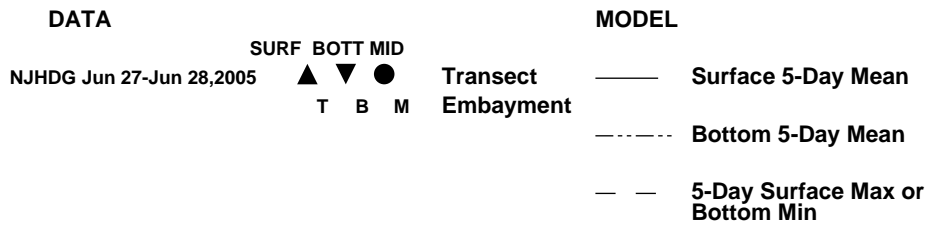
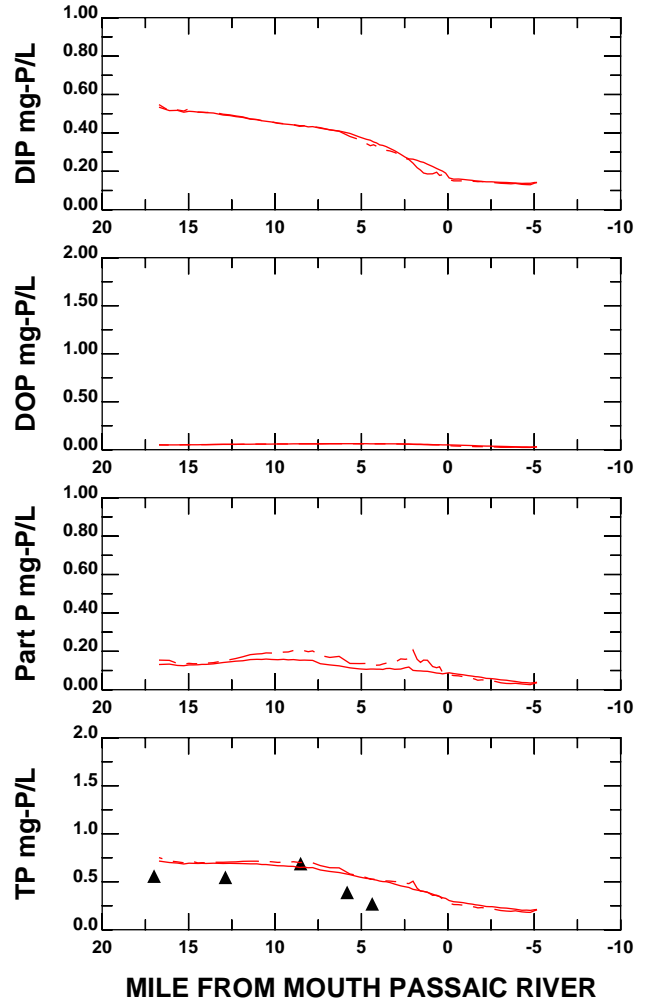
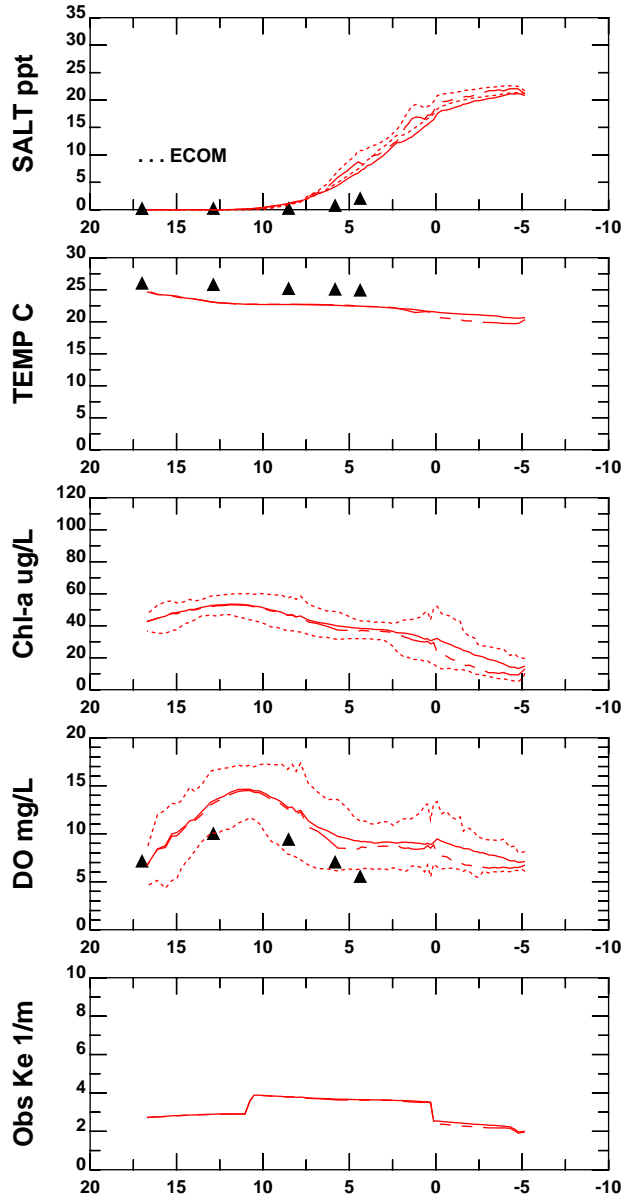




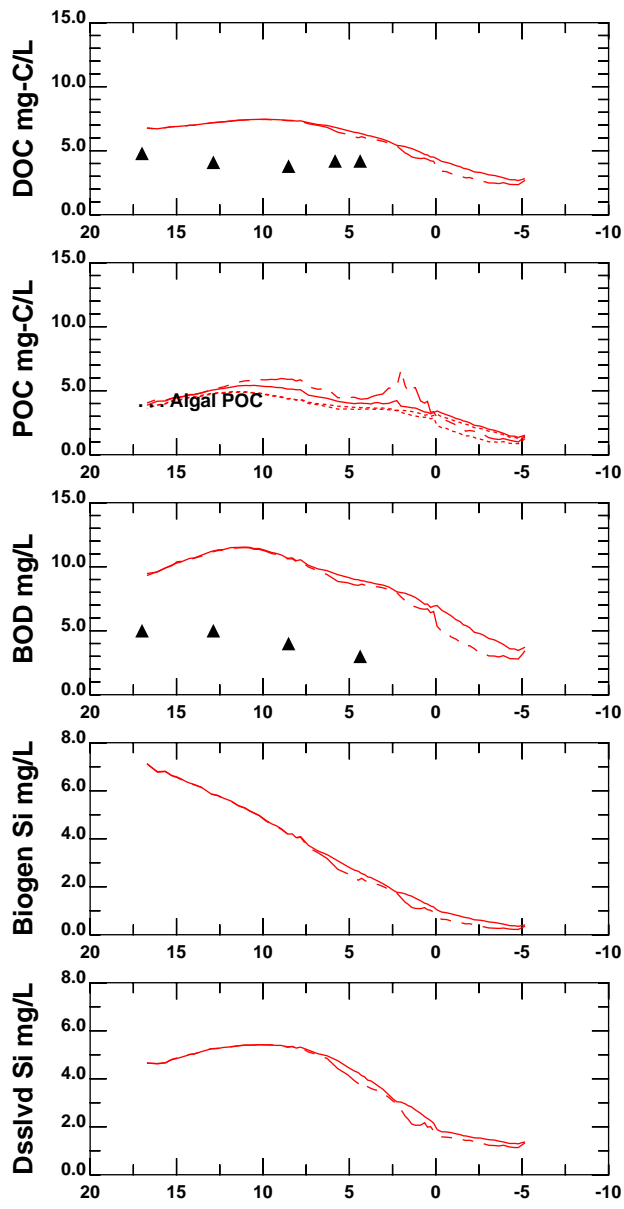
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

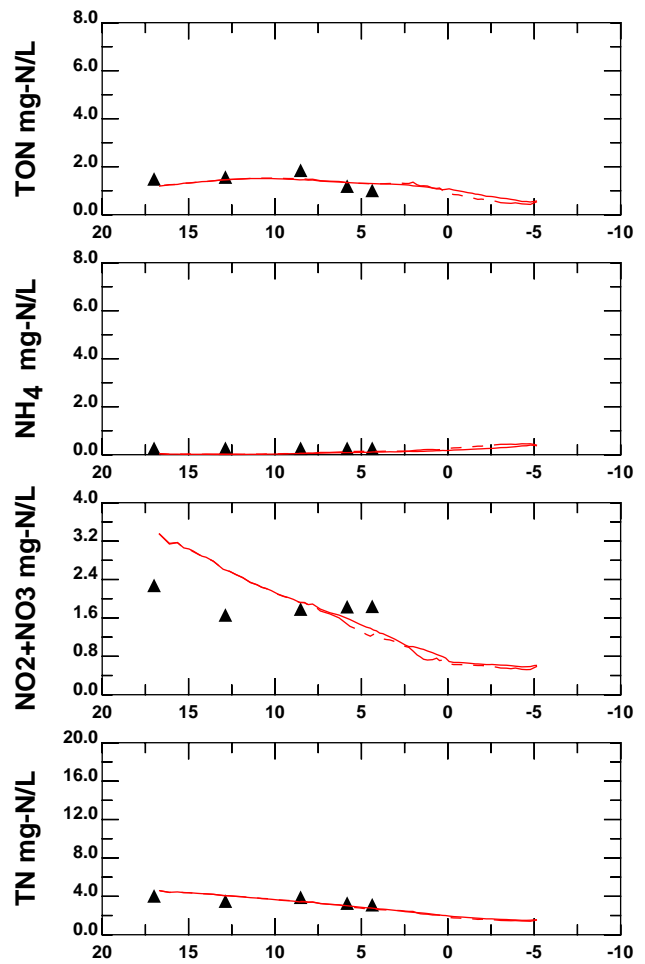


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

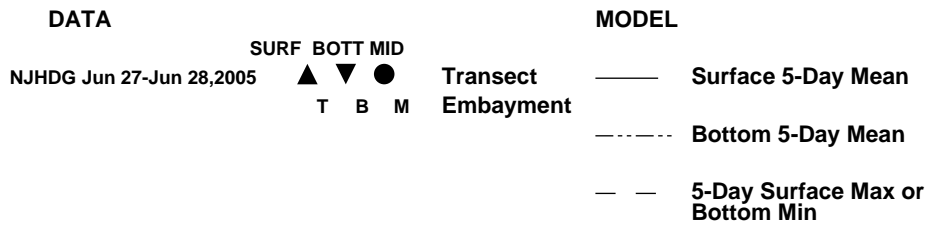


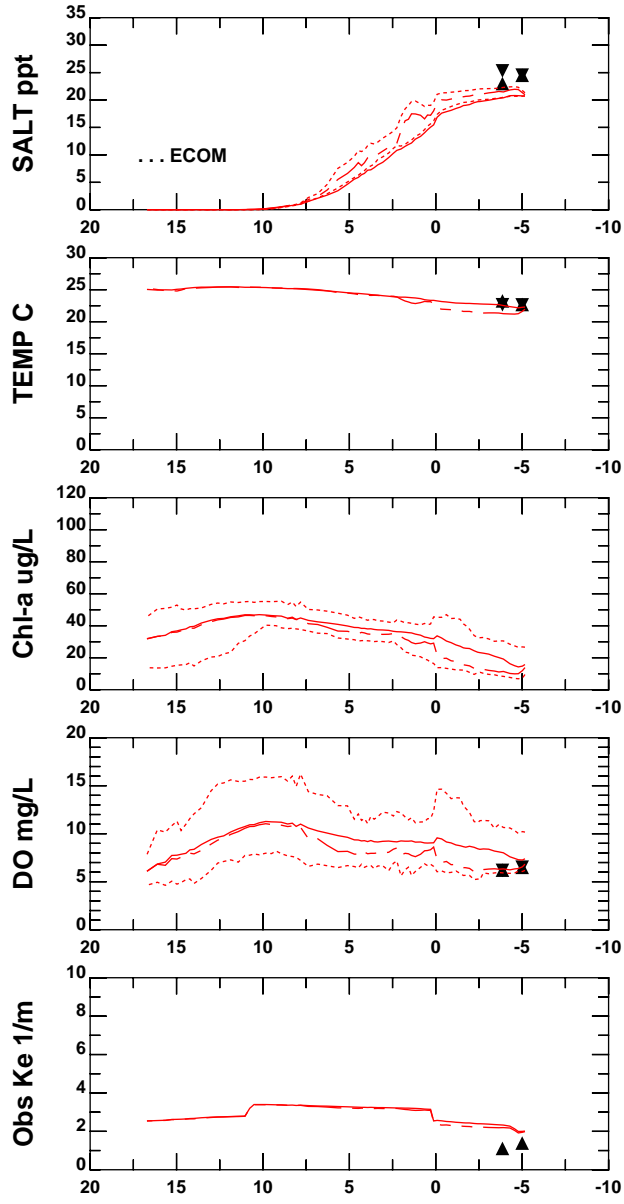
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

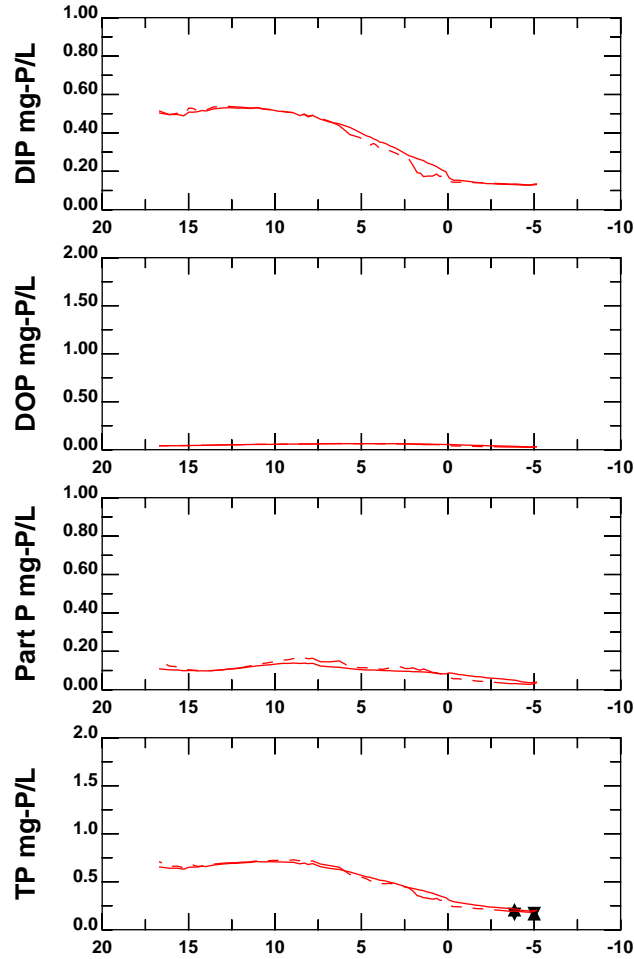


MILE FROM MOUTH PASSAIC RIVER





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

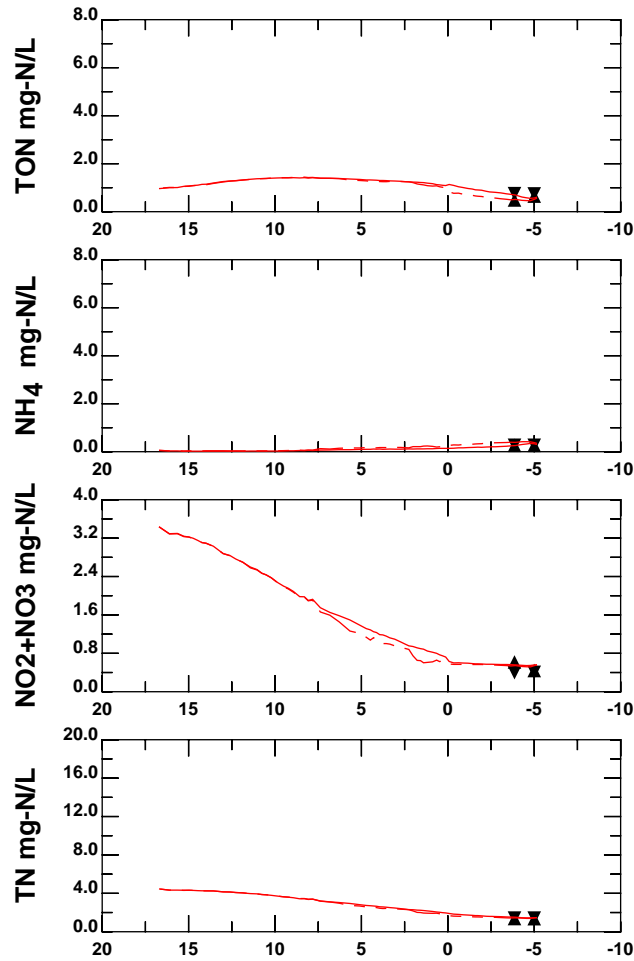
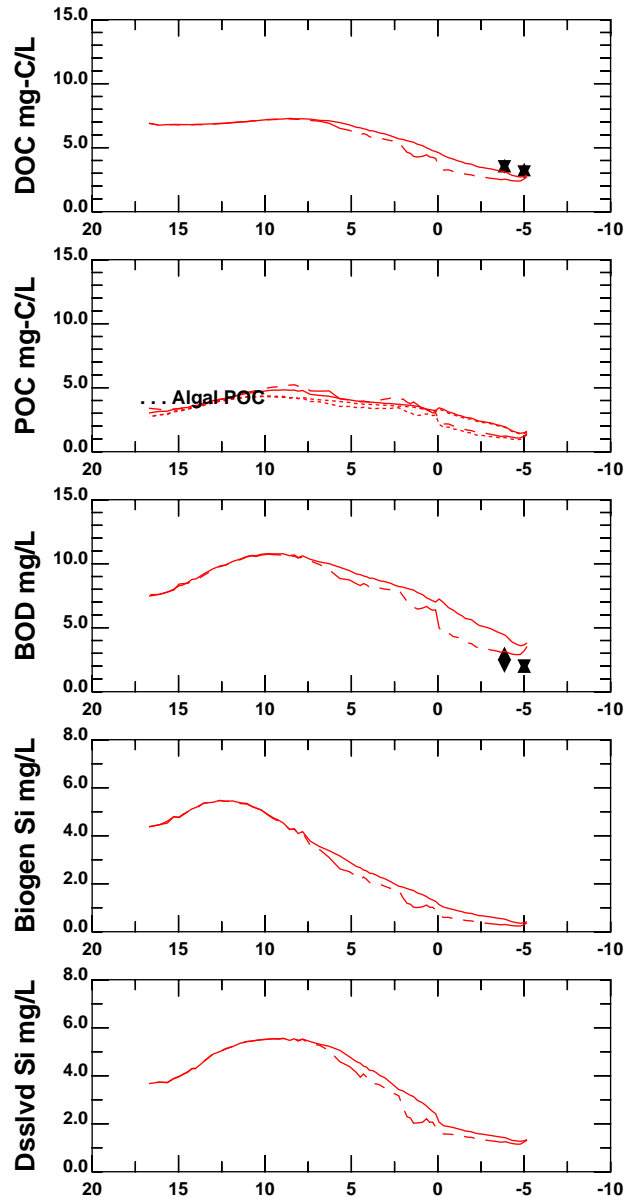
DATA  
NJHDG Jun 29, 2005

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

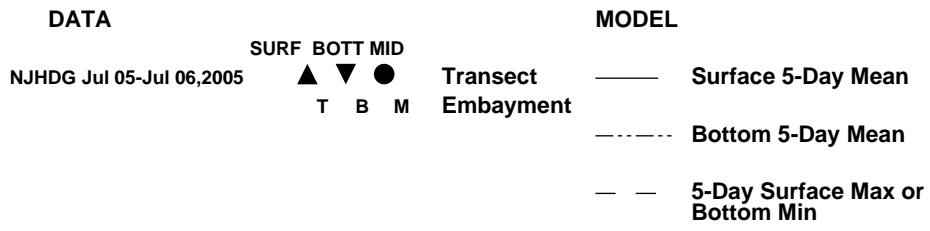
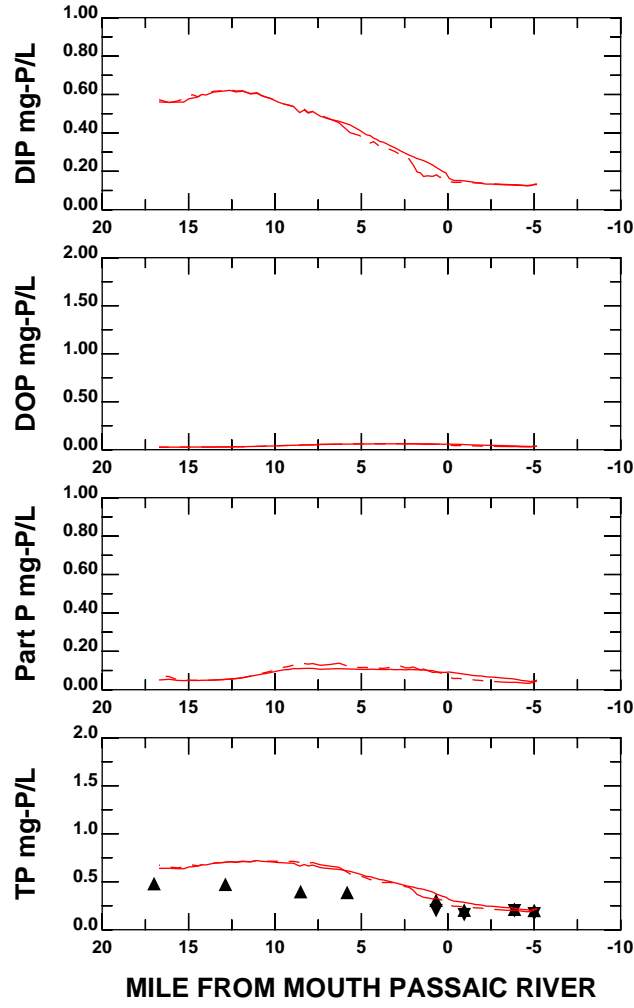
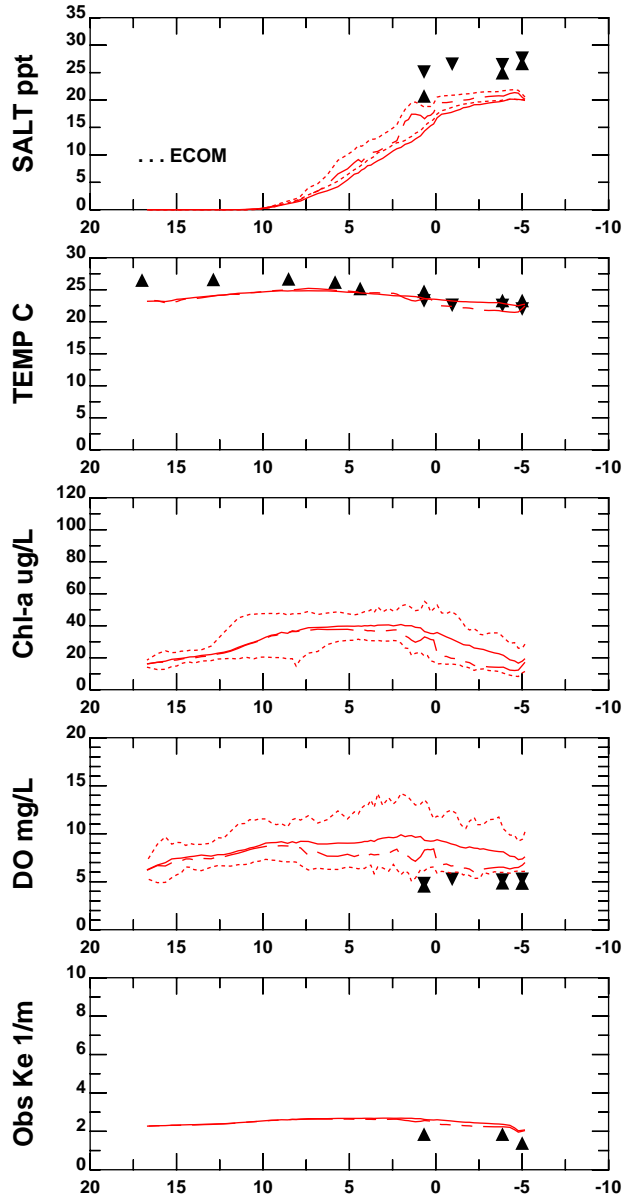


DATA  
NJHDG Jun 29, 2005

SURF BOTT MID  
▲ ▼ ●  
T B M  
Transect  
Embayment

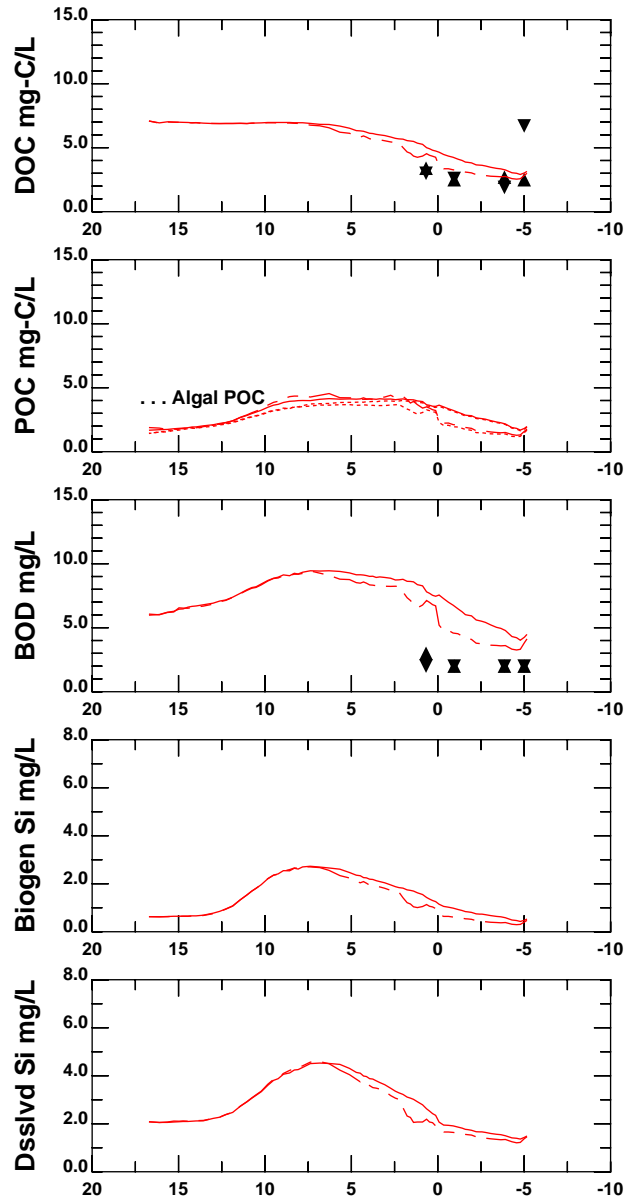
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

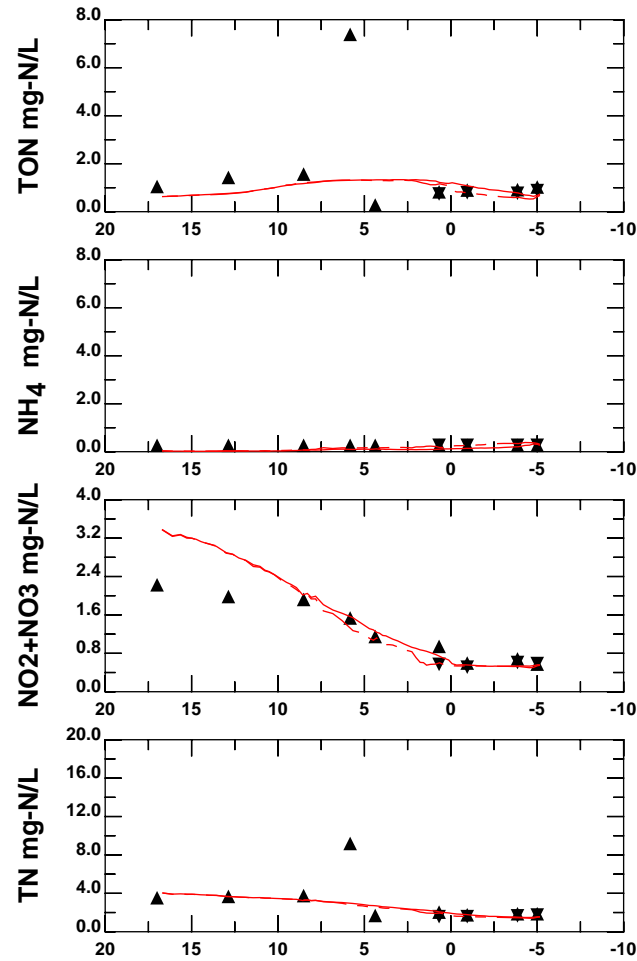




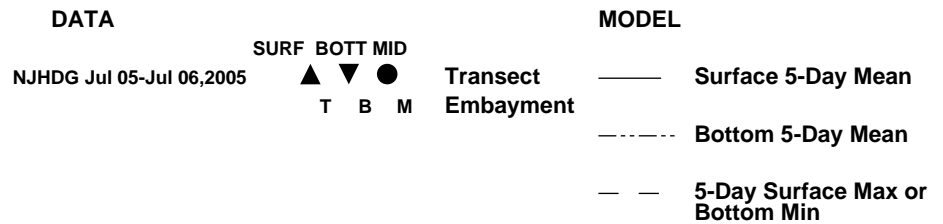
MILE FROM MOUTH PASSAIC RIVER

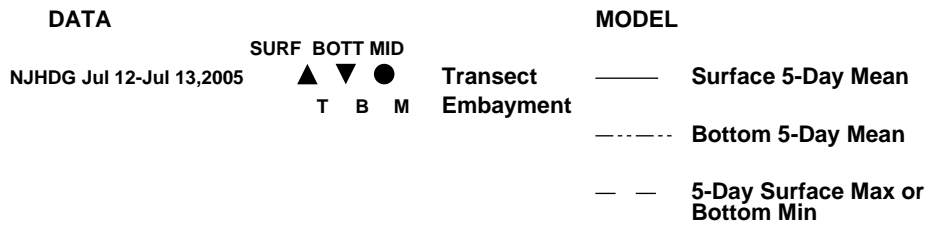
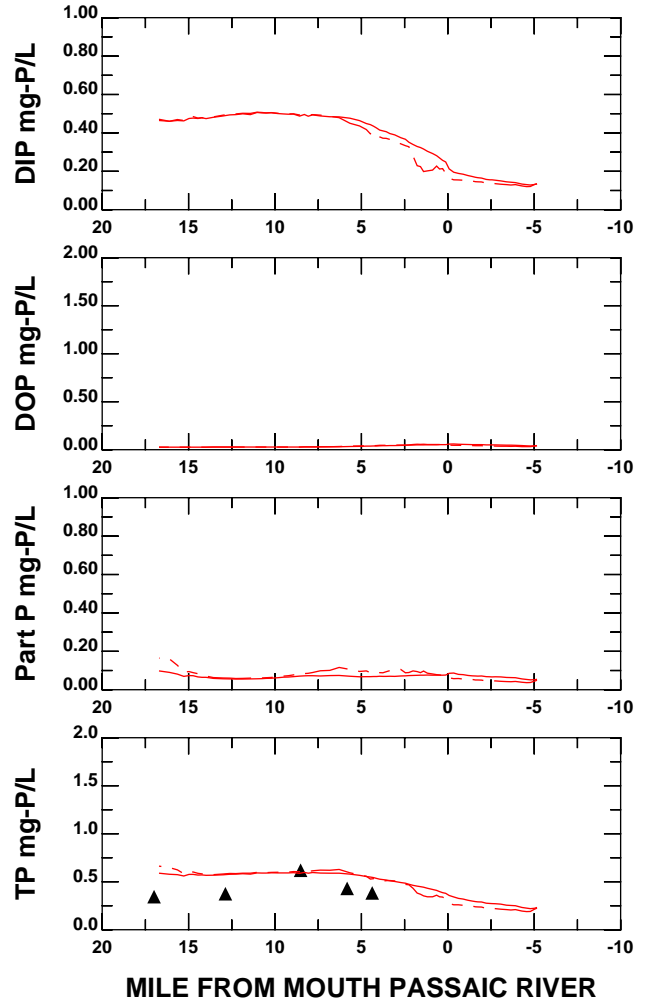
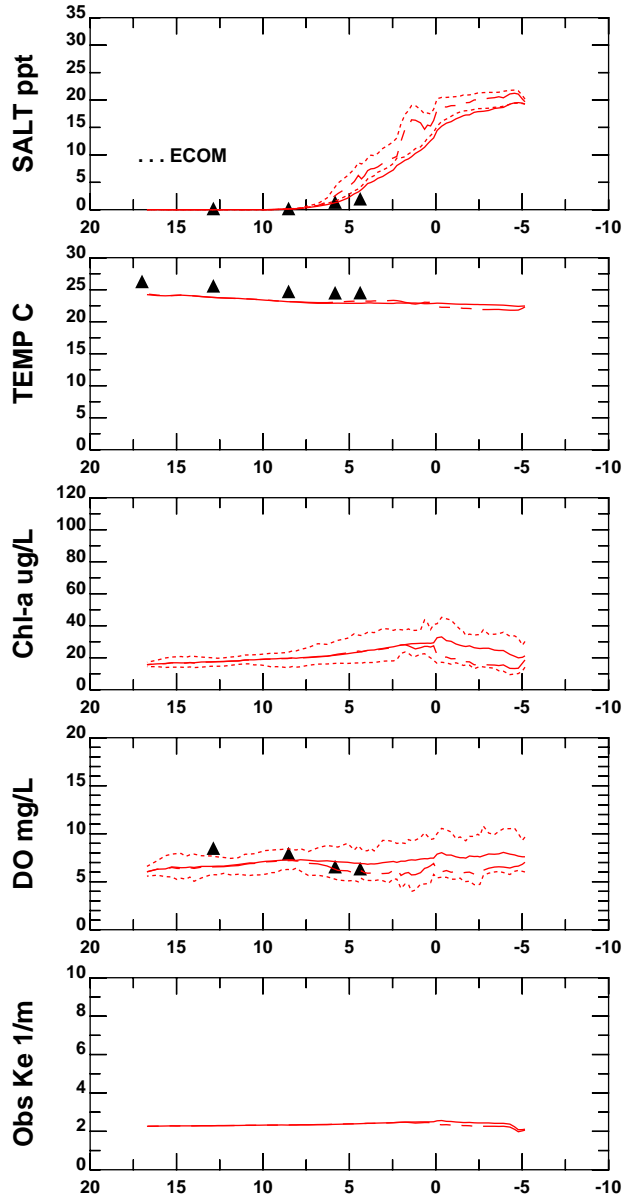
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405

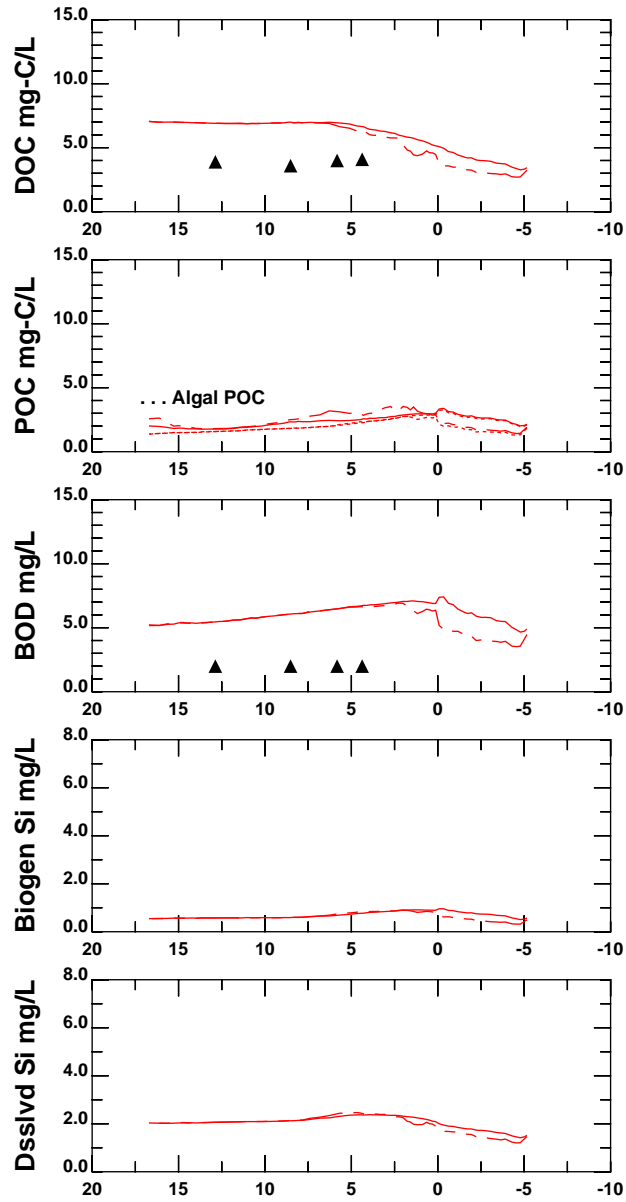


MILE FROM MOUTH PASSAIC RIVER

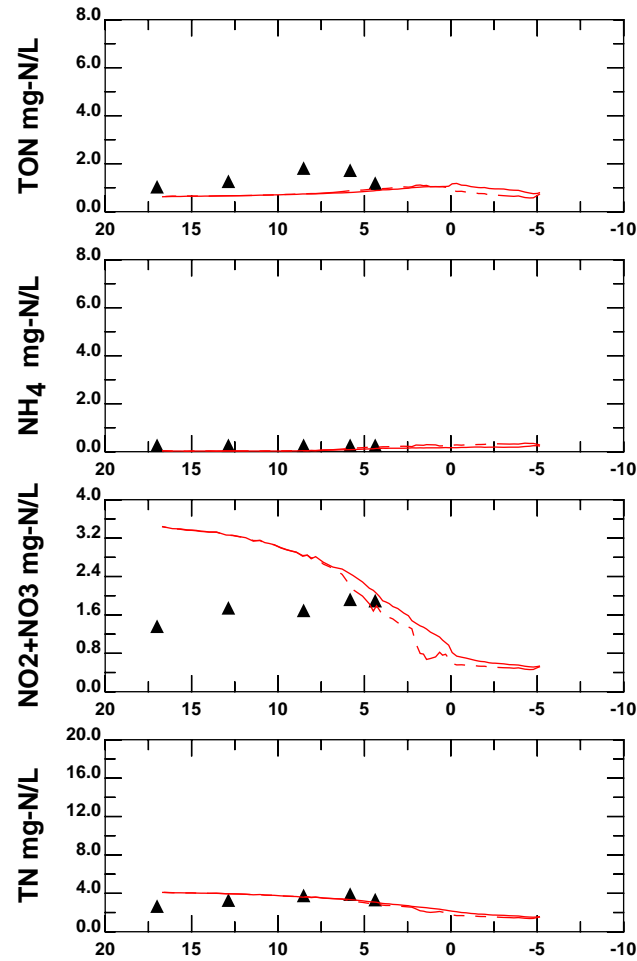




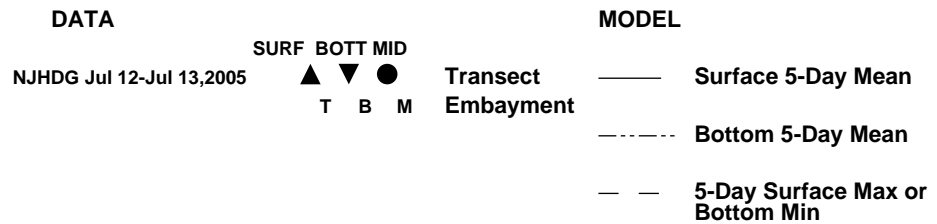
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



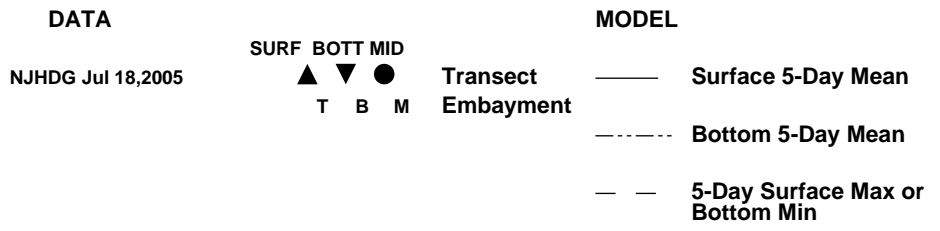
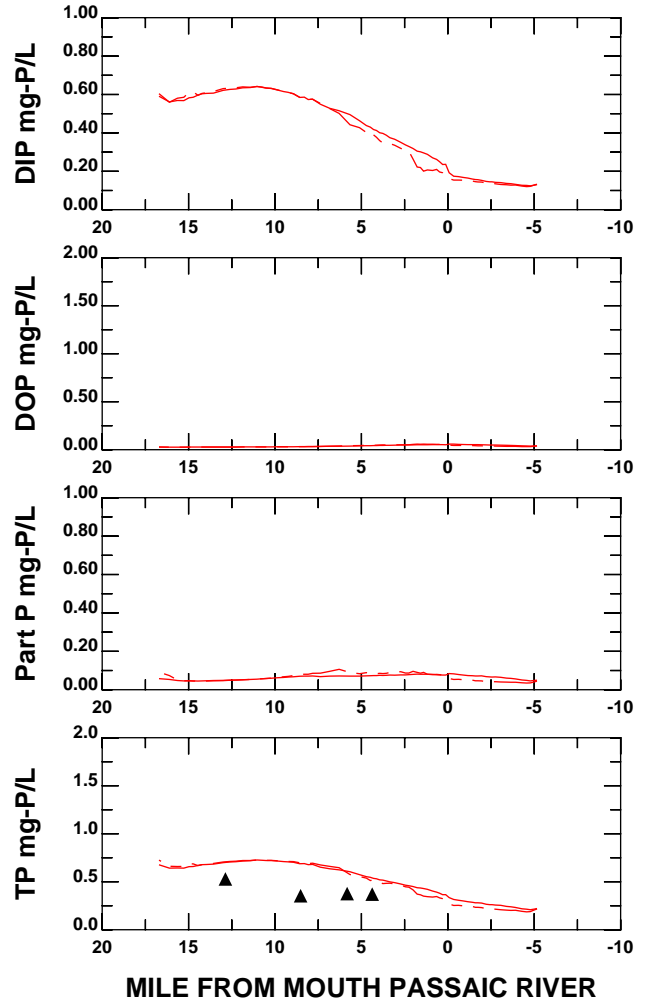
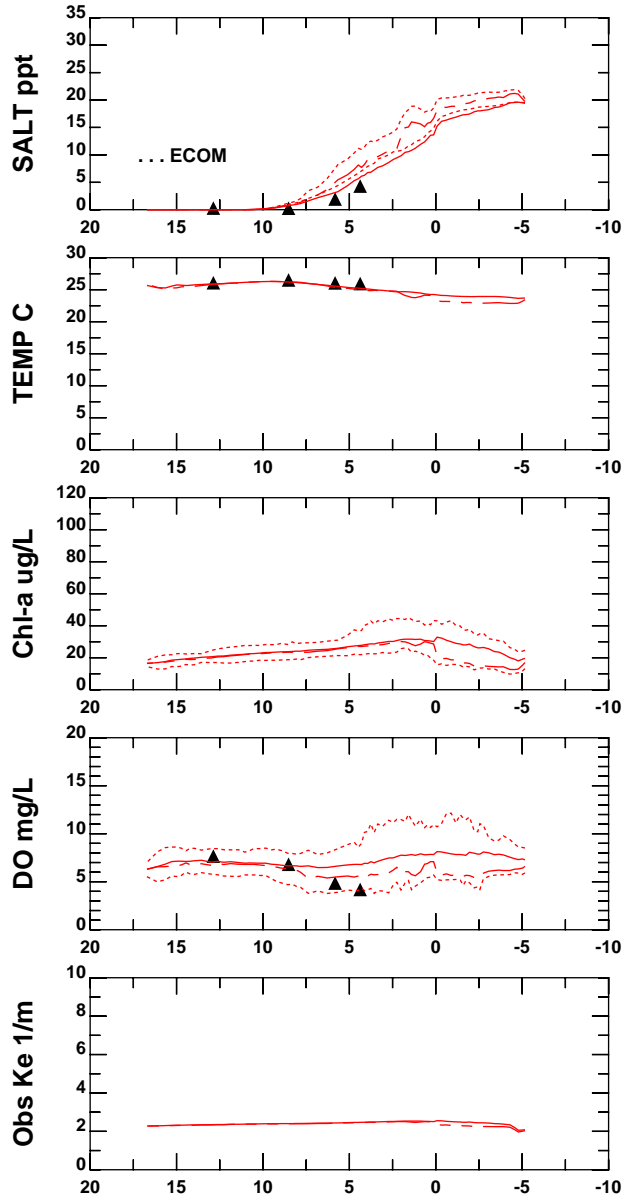
MILE FROM MOUTH PASSAIC RIVER



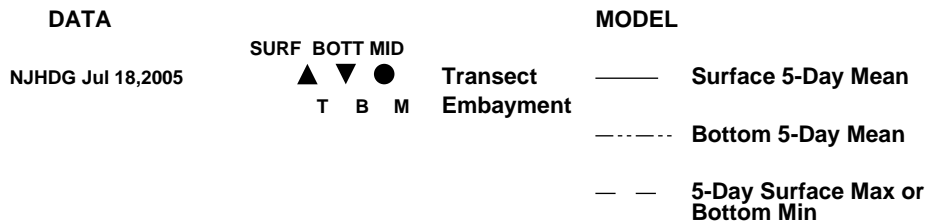
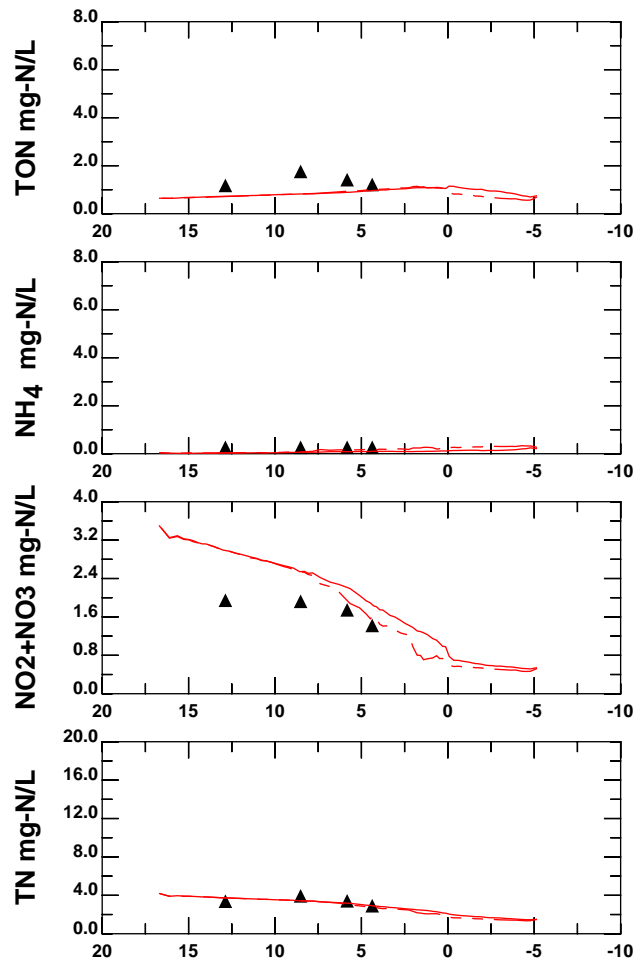
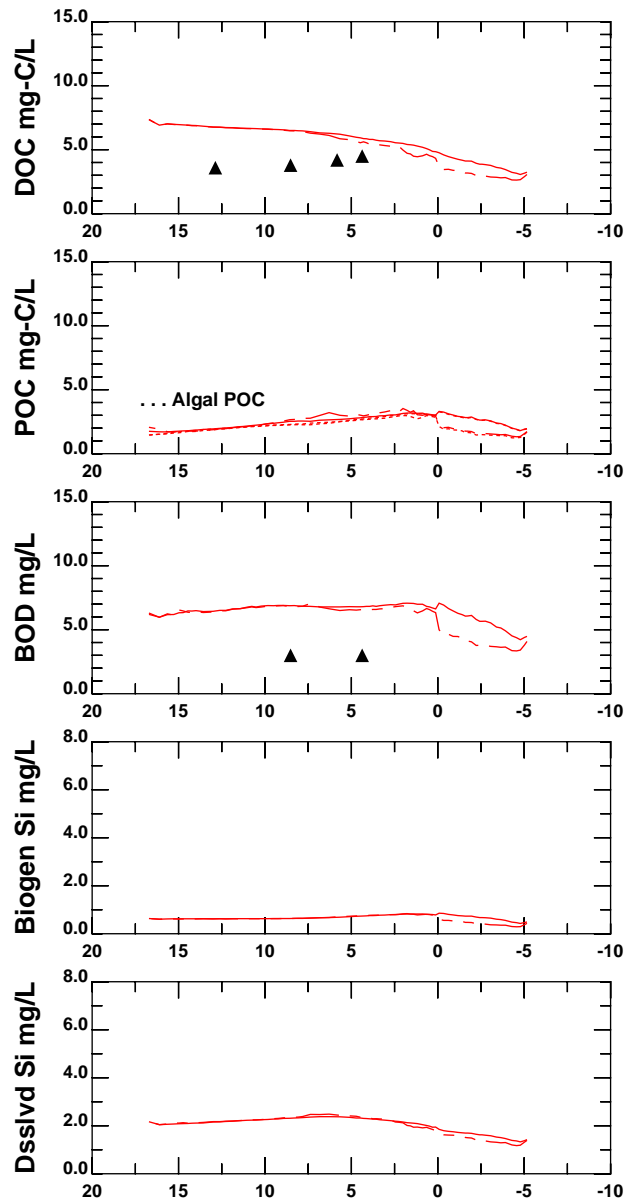
MILE FROM MOUTH PASSAIC RIVER



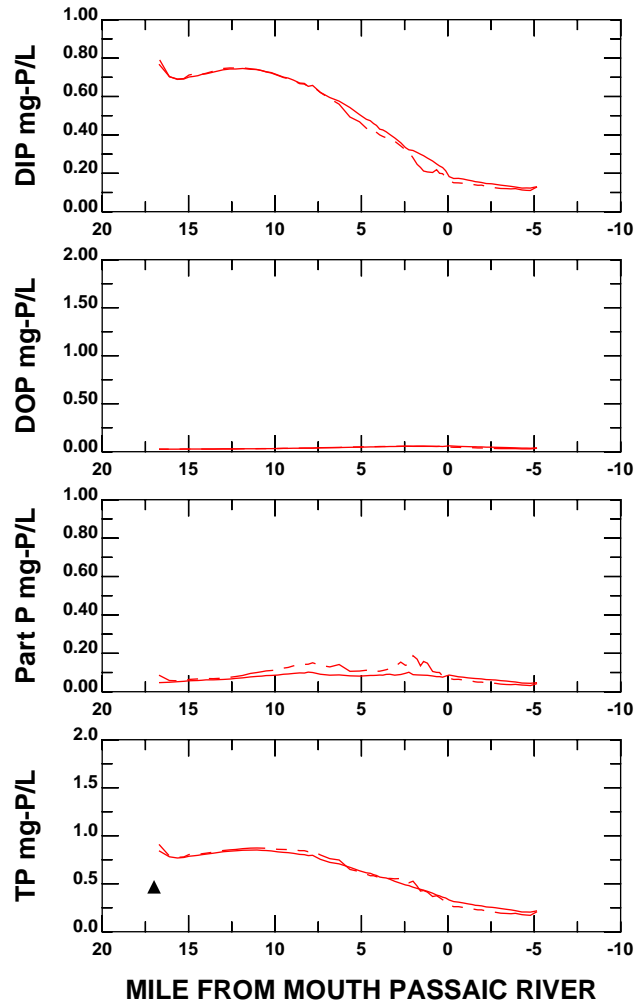
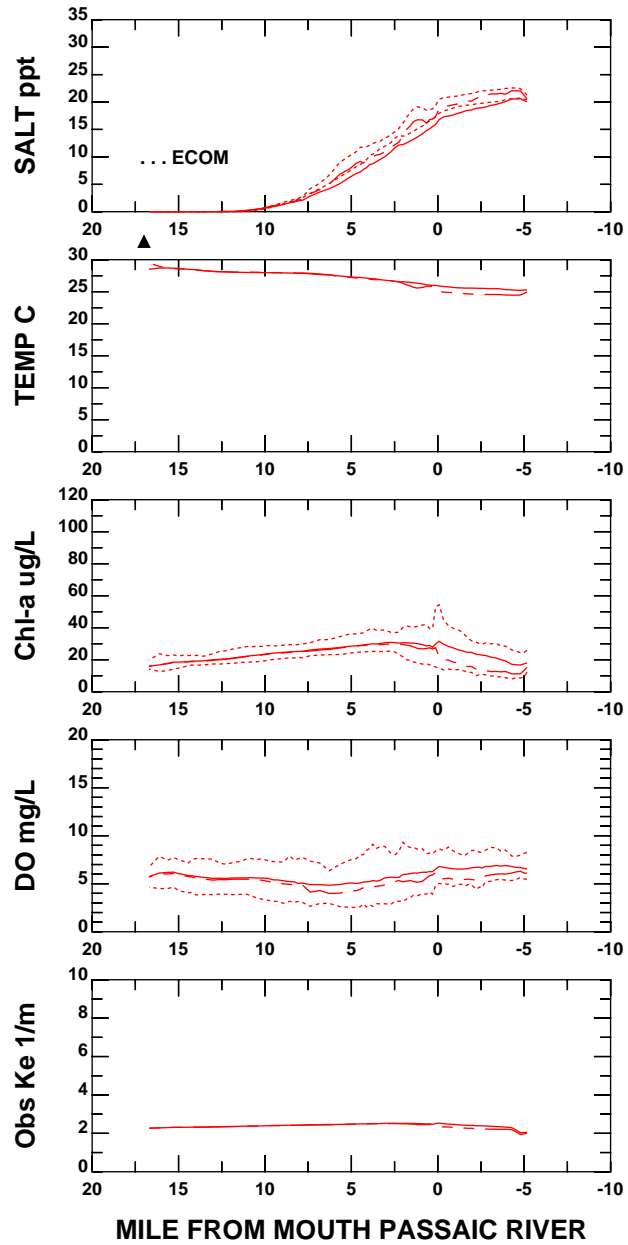
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



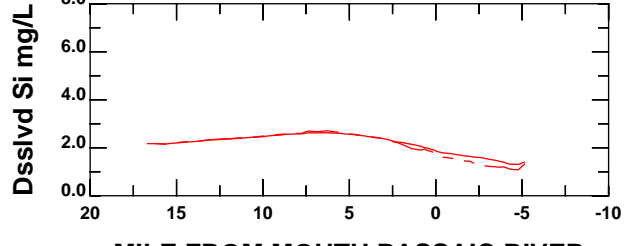
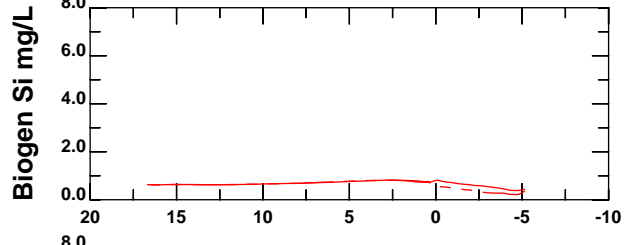
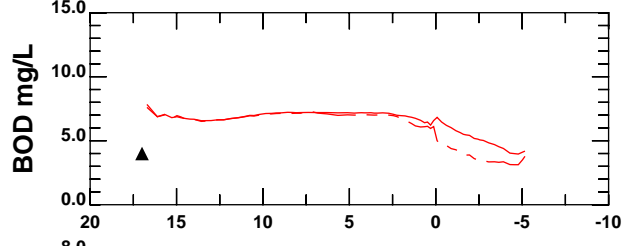
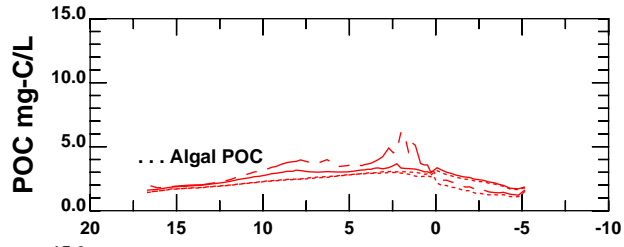
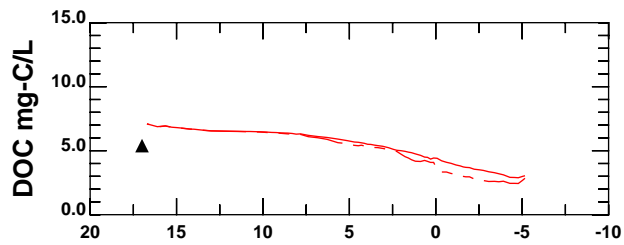
**DATA**  
NJHDG Jul 19,2005

**MODEL**

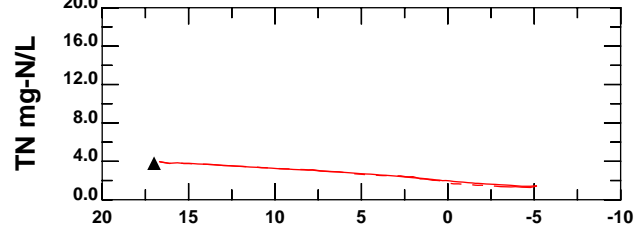
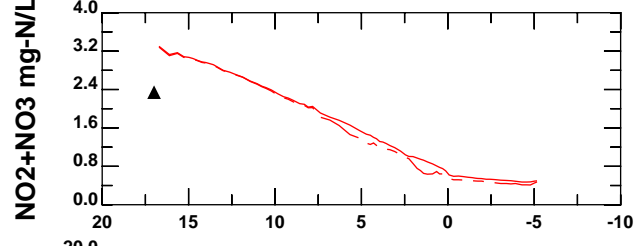
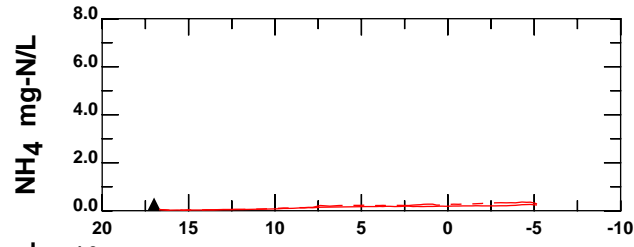
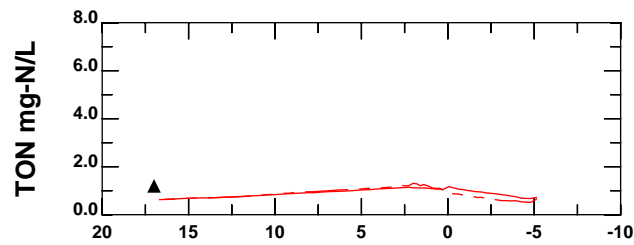
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



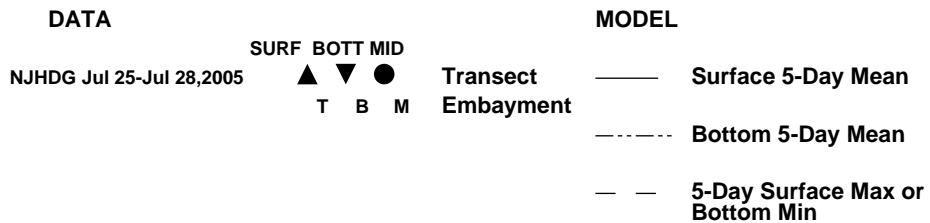
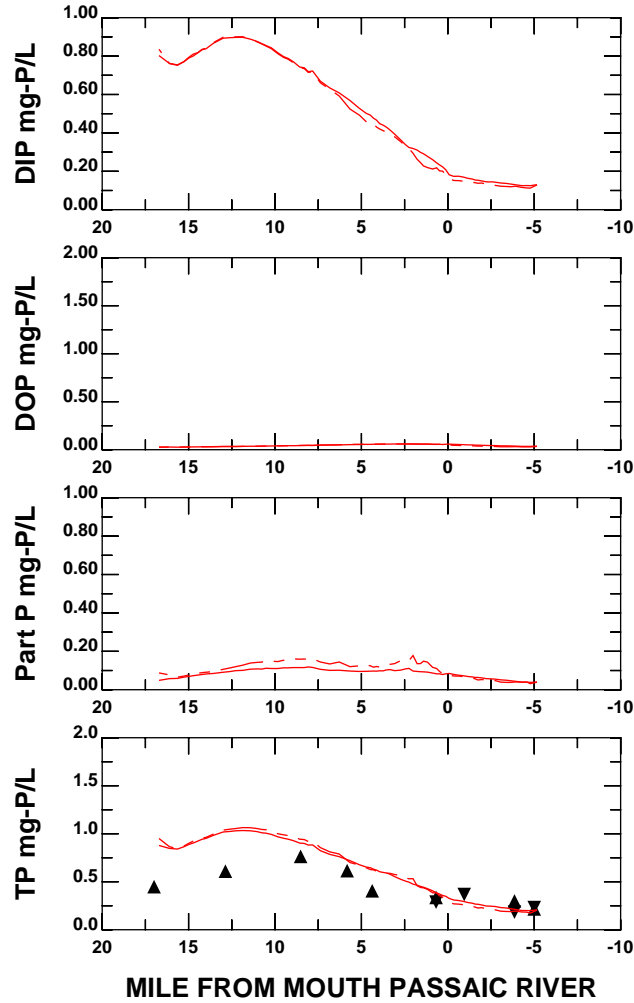
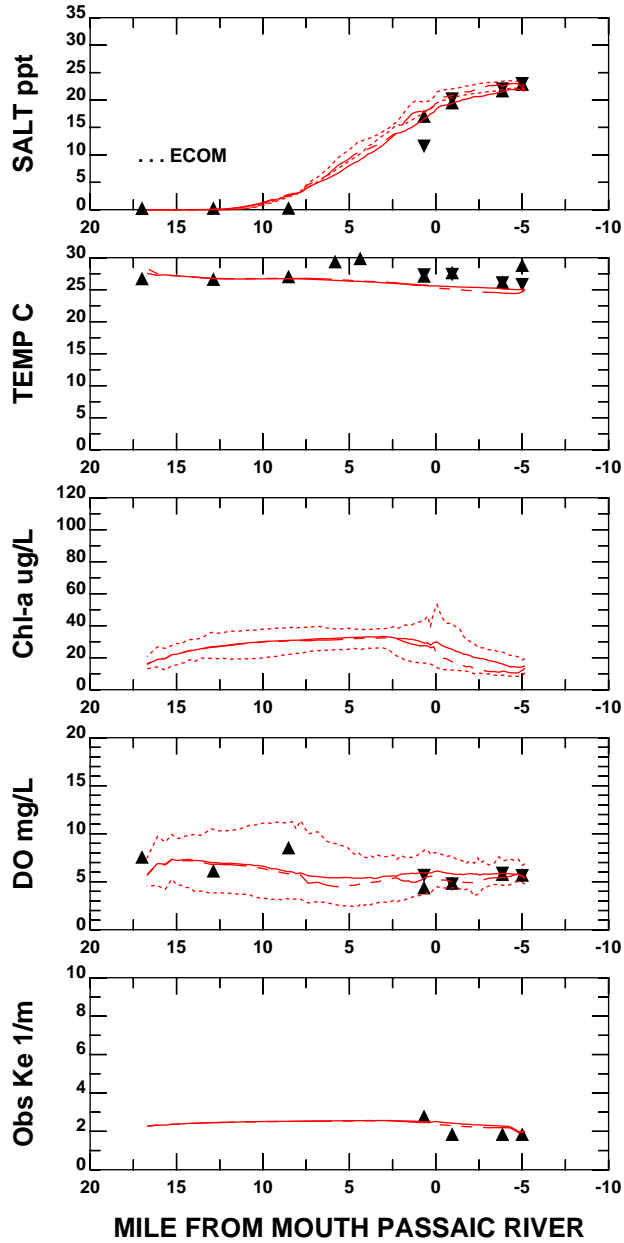
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jul 19,2005

MODEL

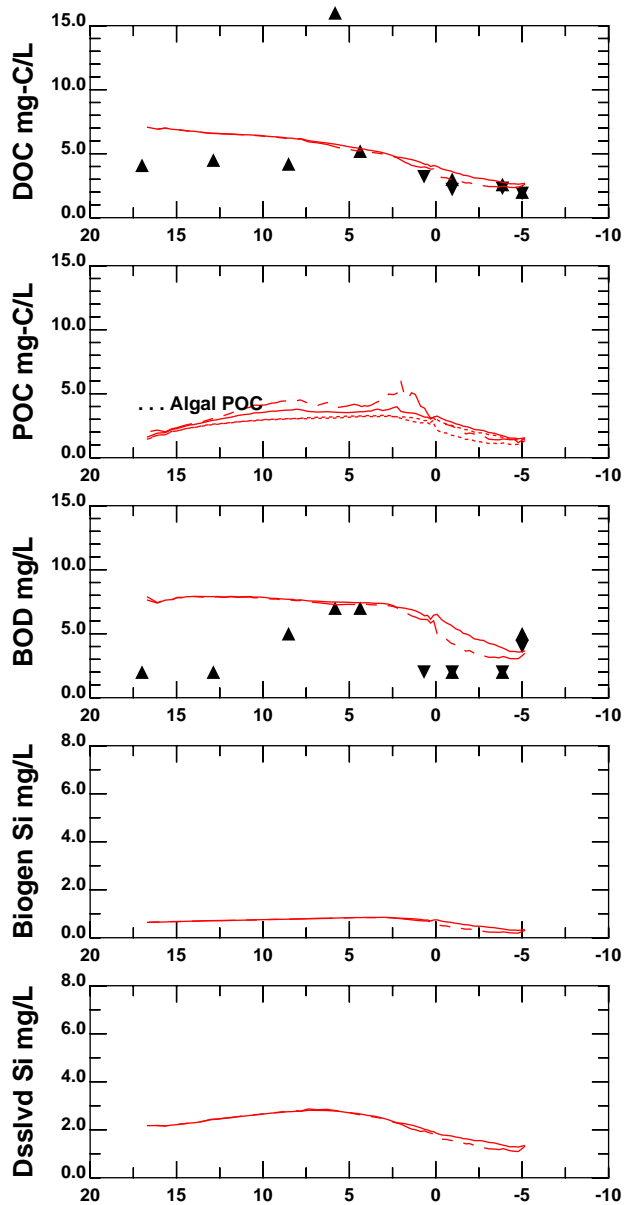
SURF	BOTT	MID	Transect	—	Surface 5-Day Mean
▲	▼	●	Embayment	- - - -	Bottom 5-Day Mean
T	B	M		— —	5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

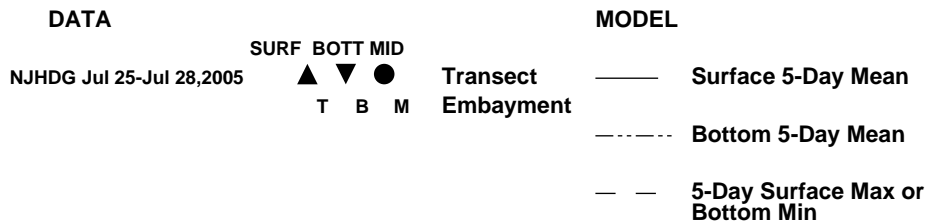
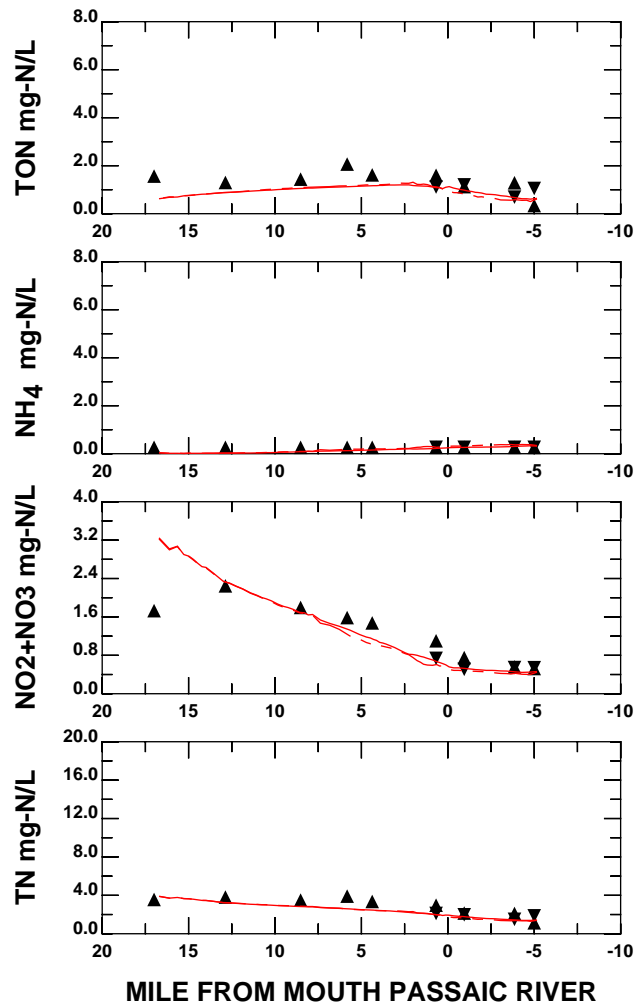


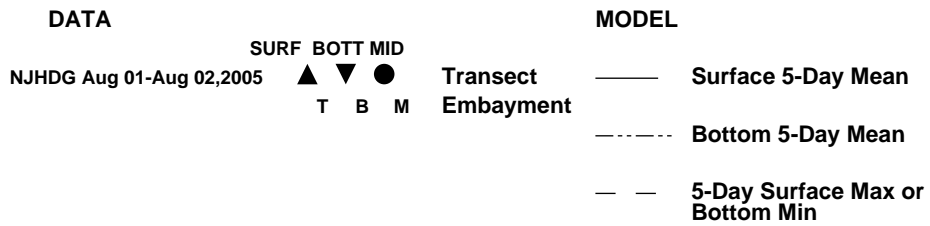
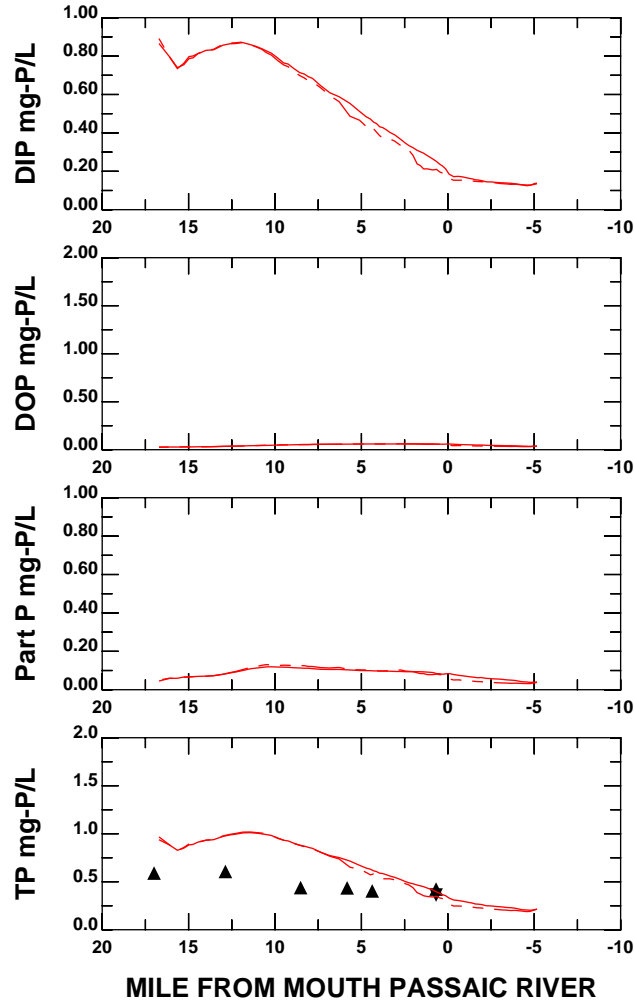
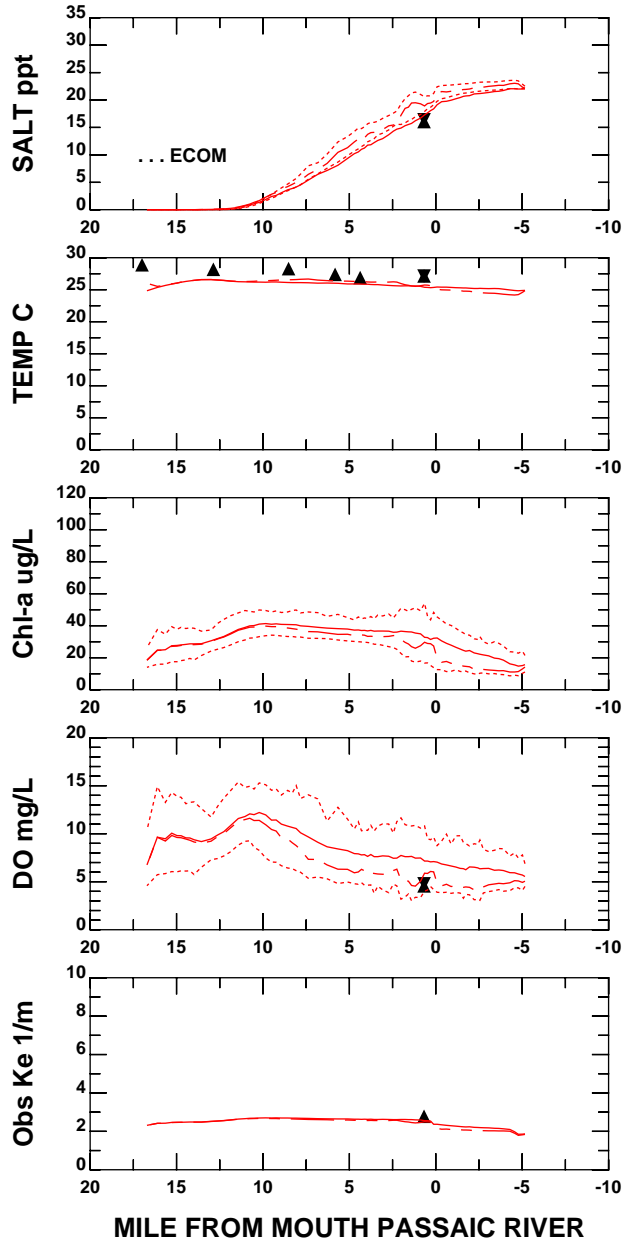


MILE FROM MOUTH PASSAIC RIVER

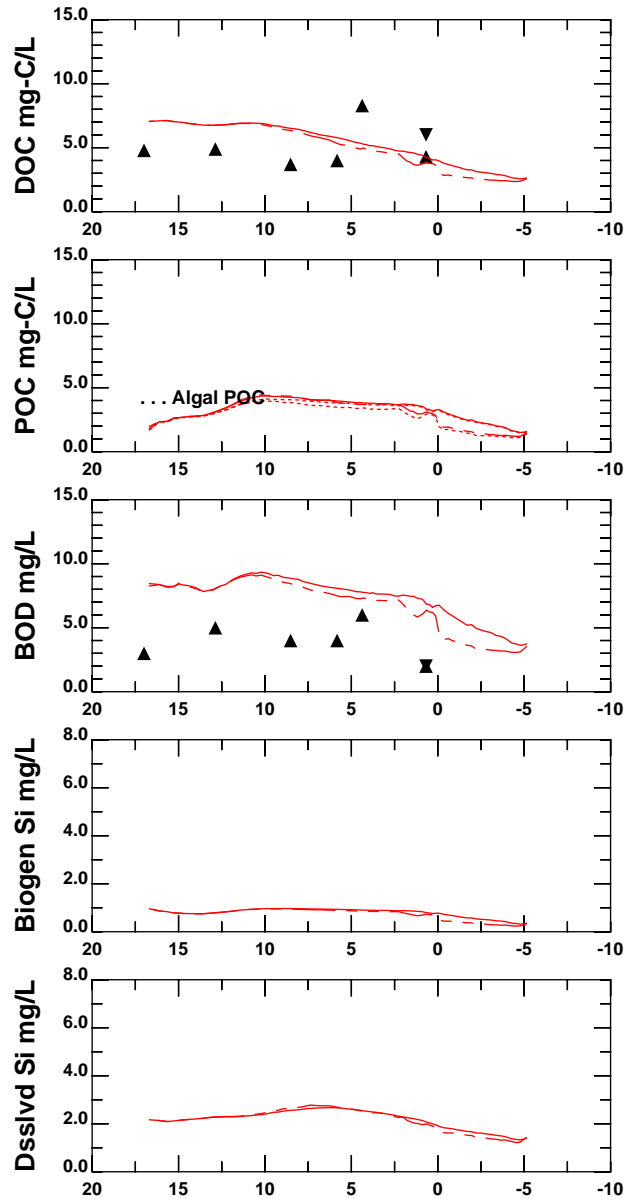
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405

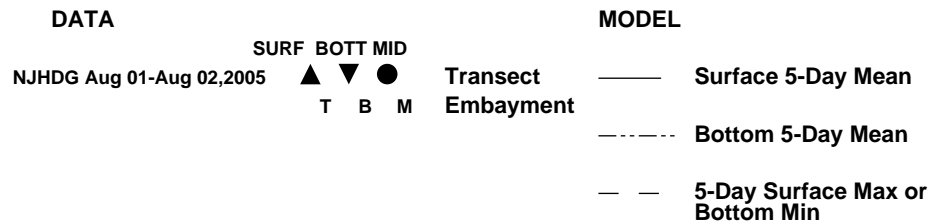
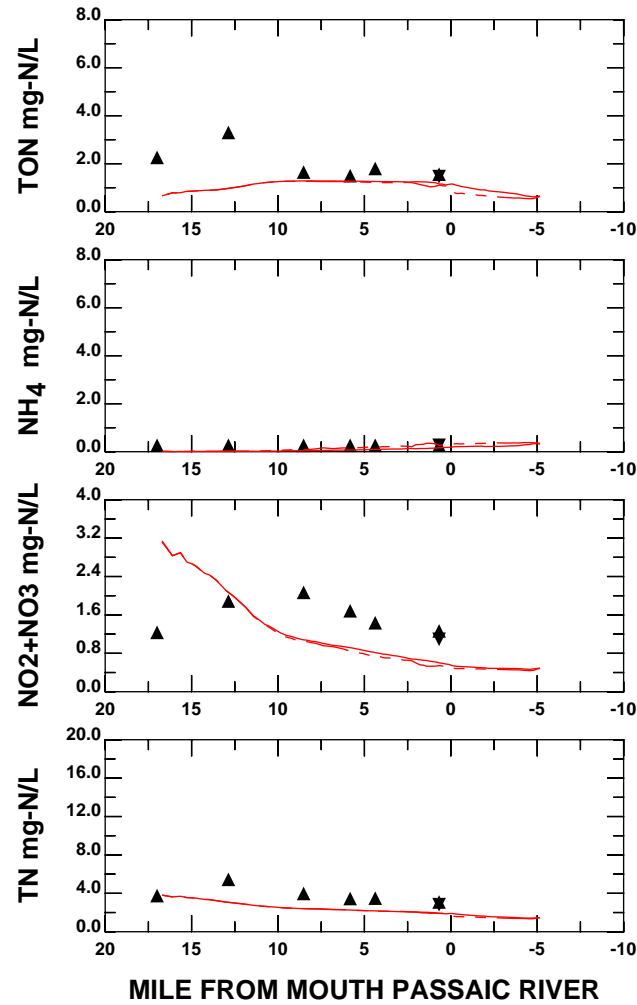


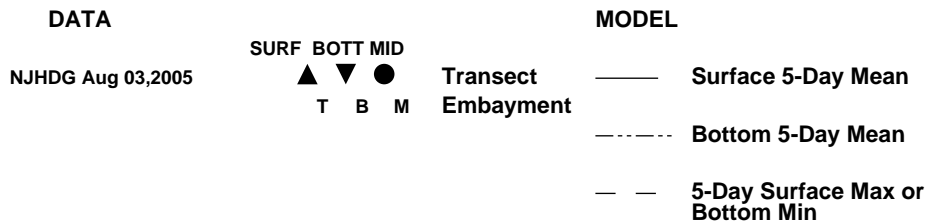
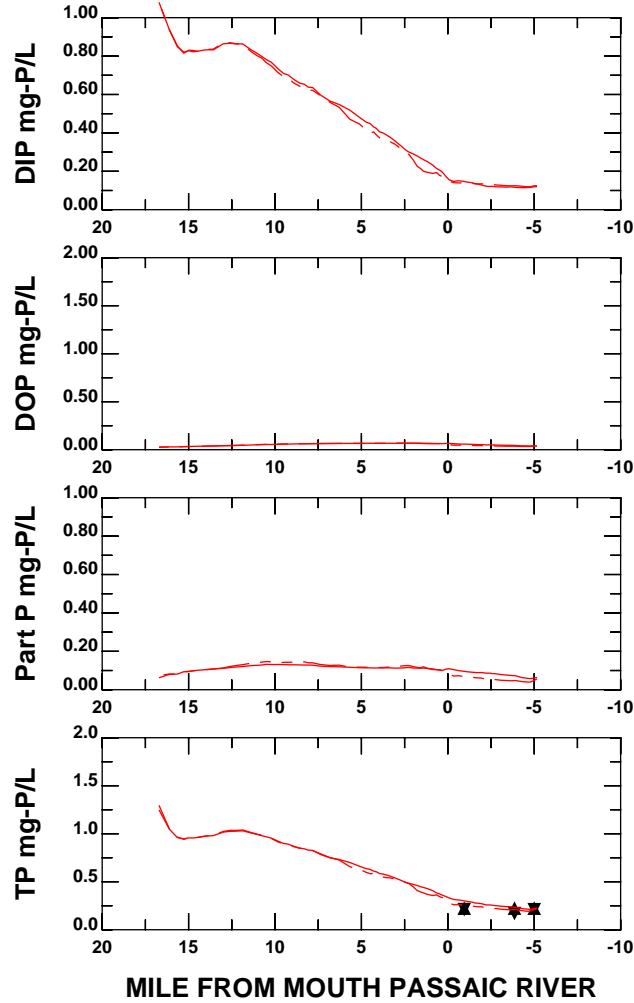
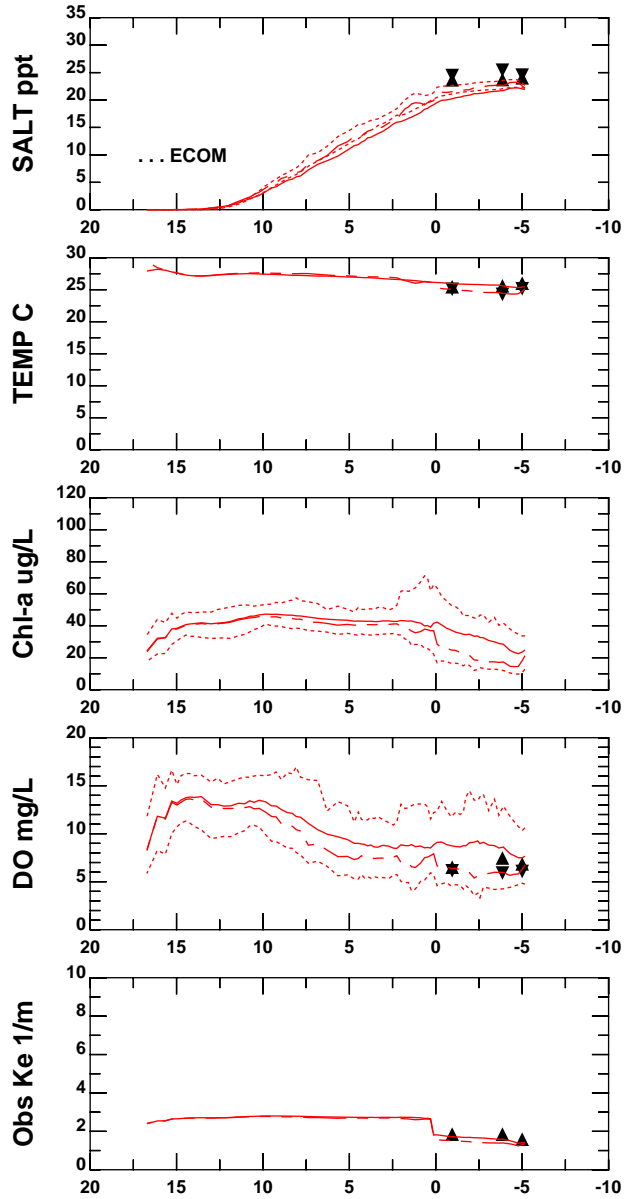


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

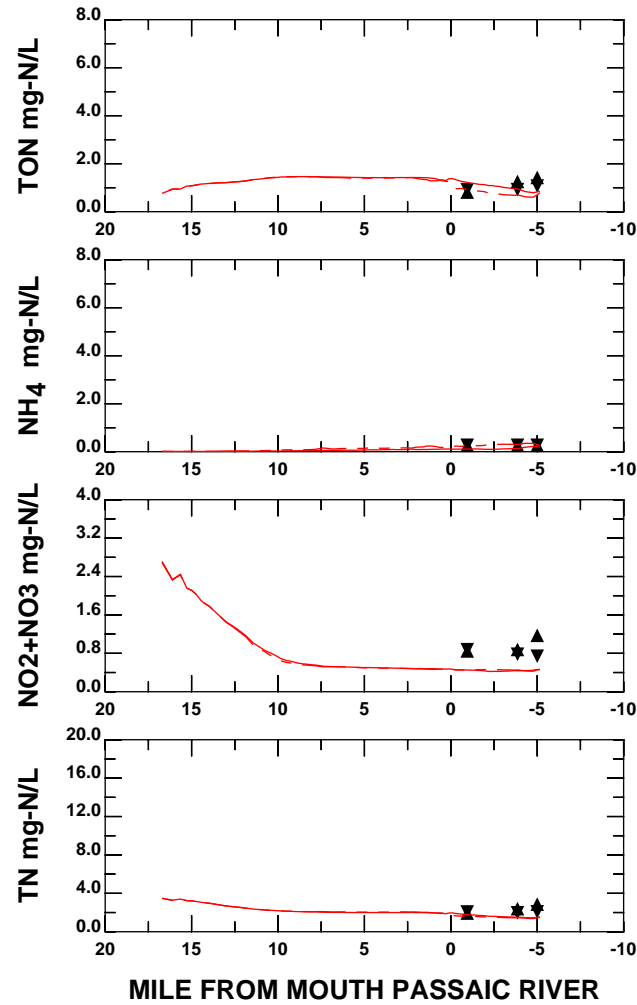
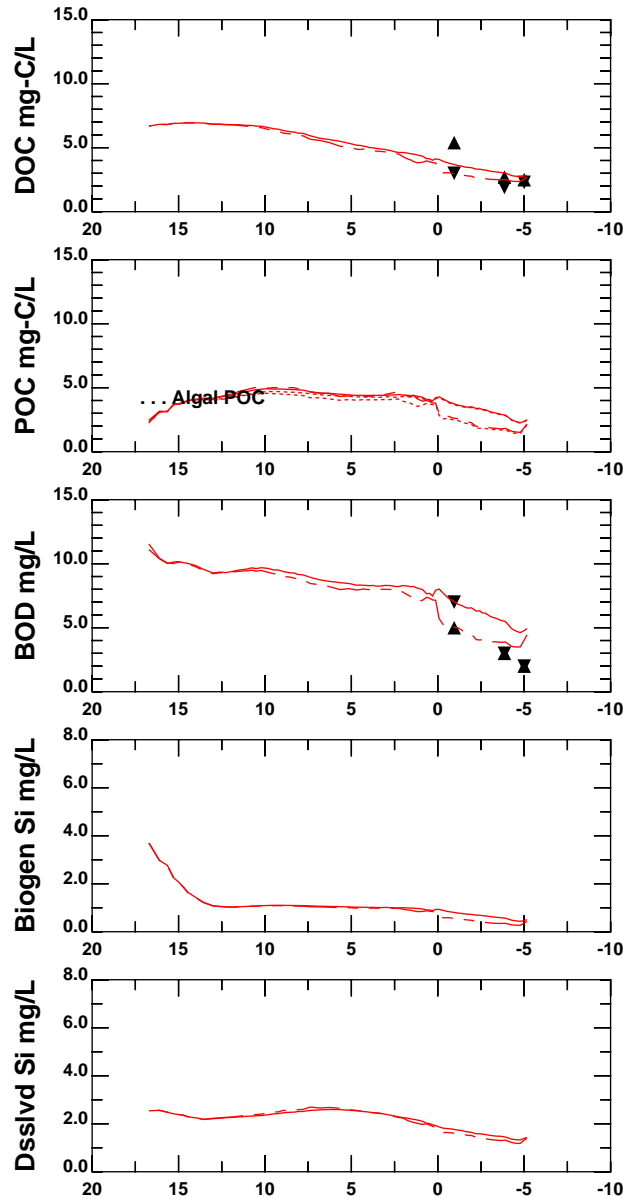


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405





**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405

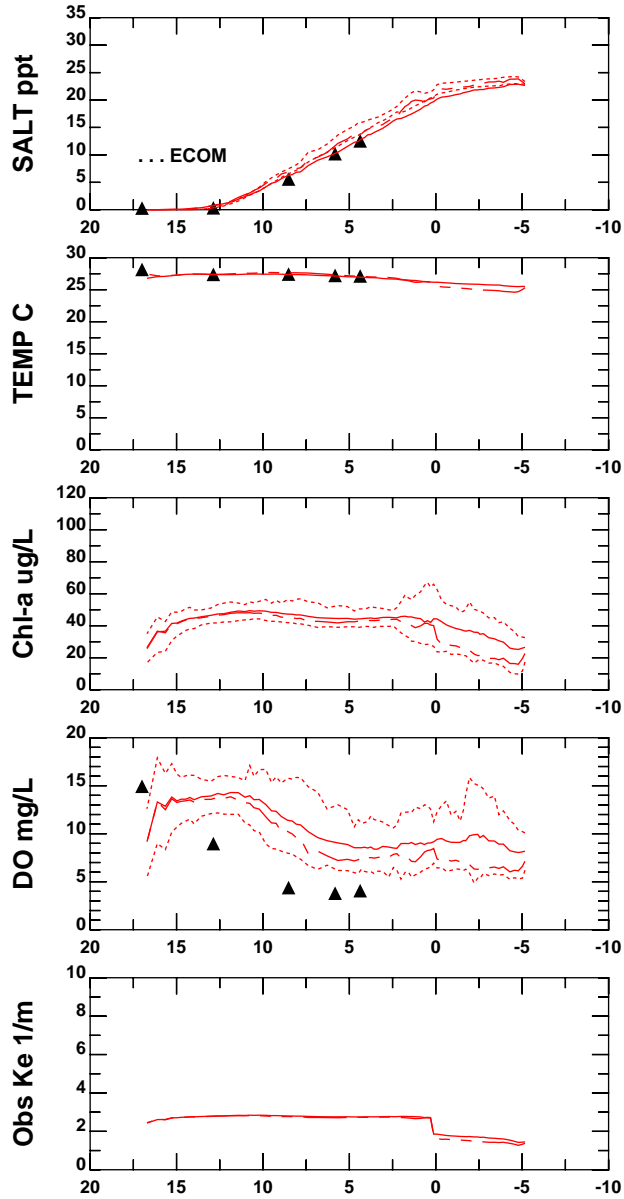


DATA  
NJHDG Aug 03,2005

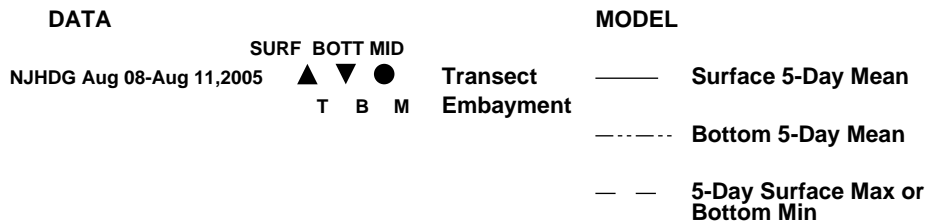
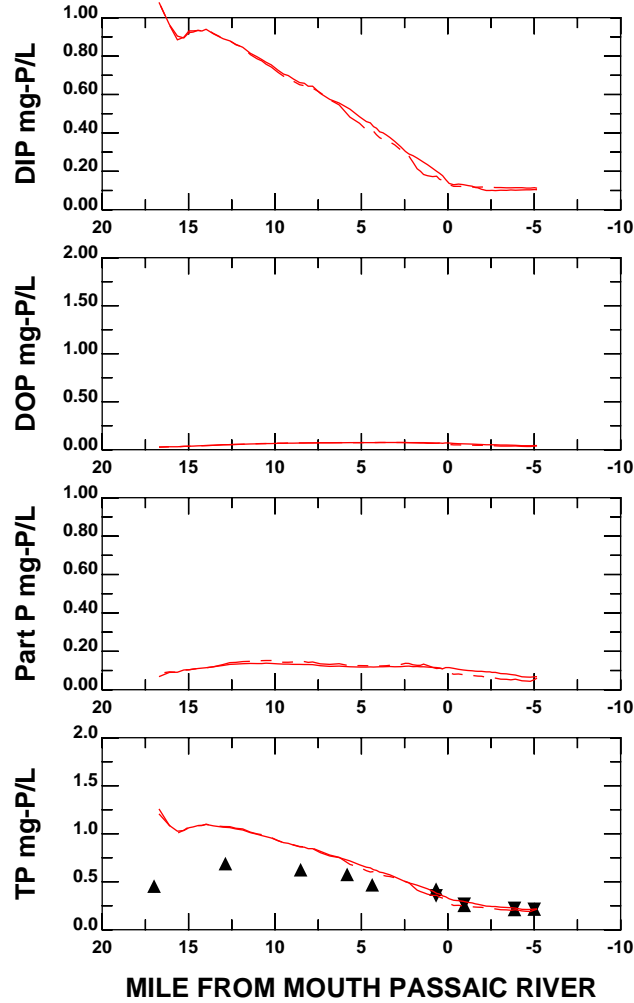
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

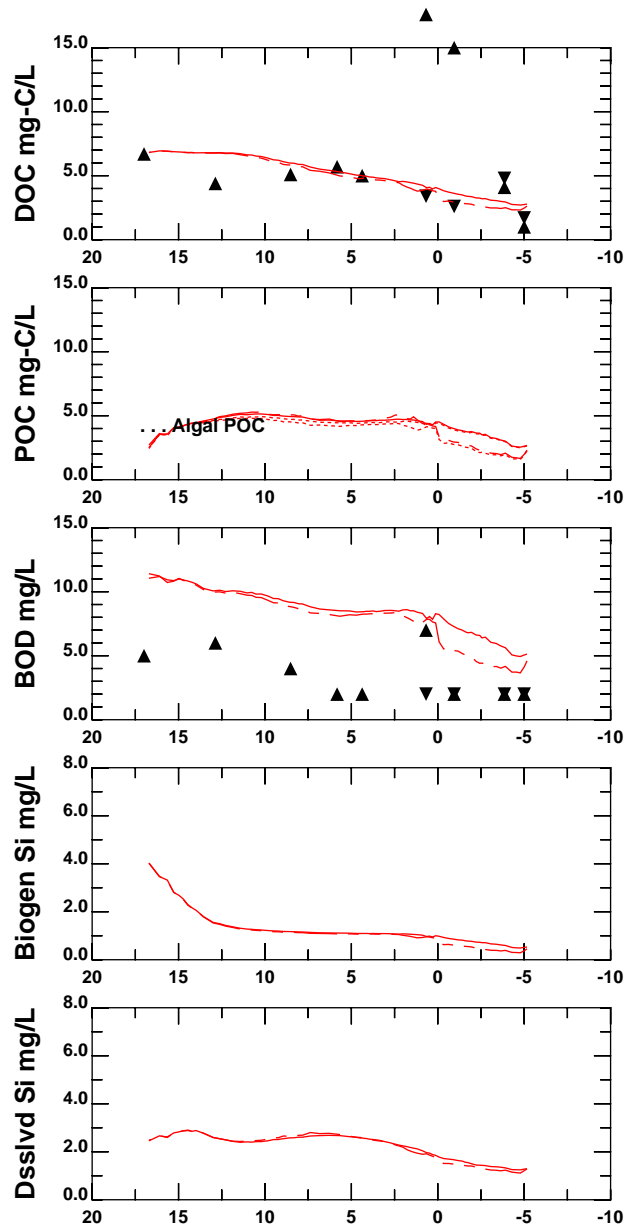
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

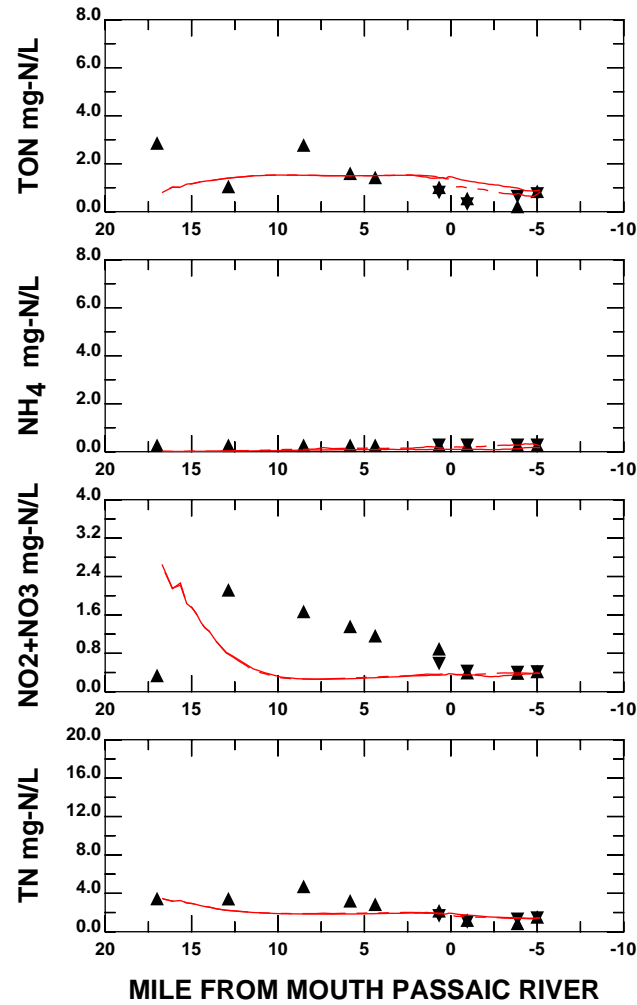




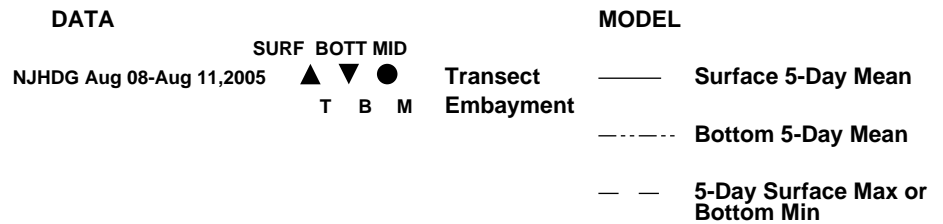
MILE FROM MOUTH PASSAIC RIVER

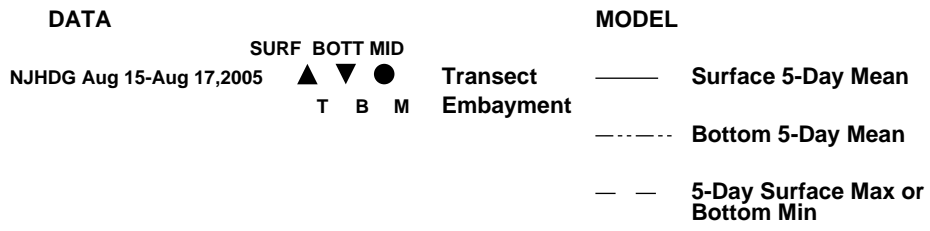
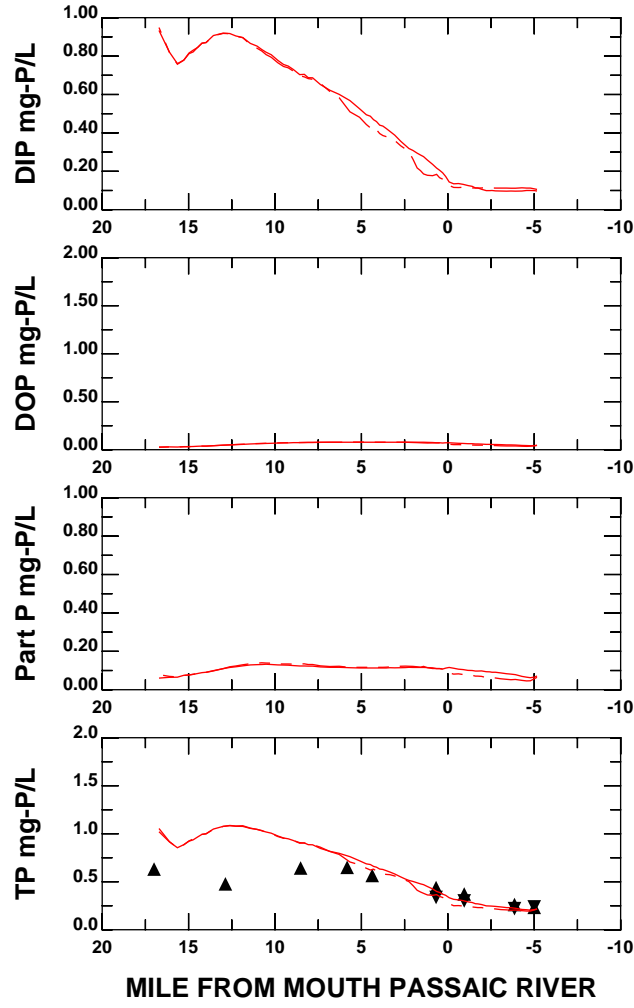
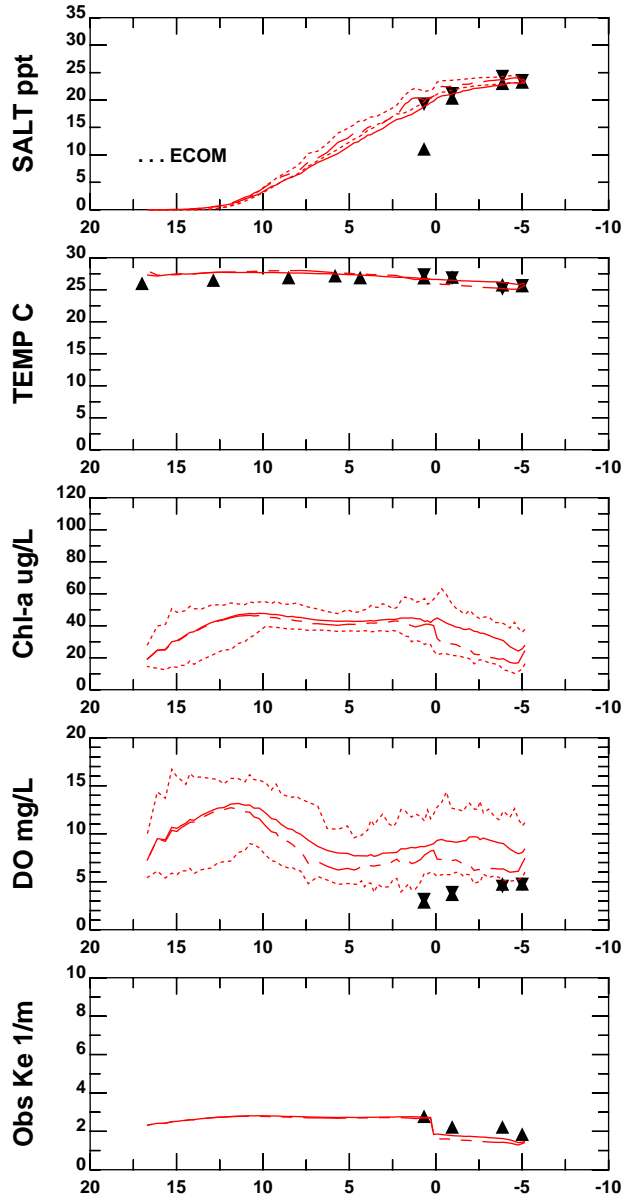
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



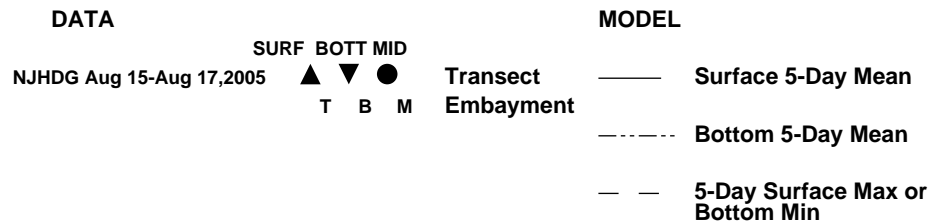
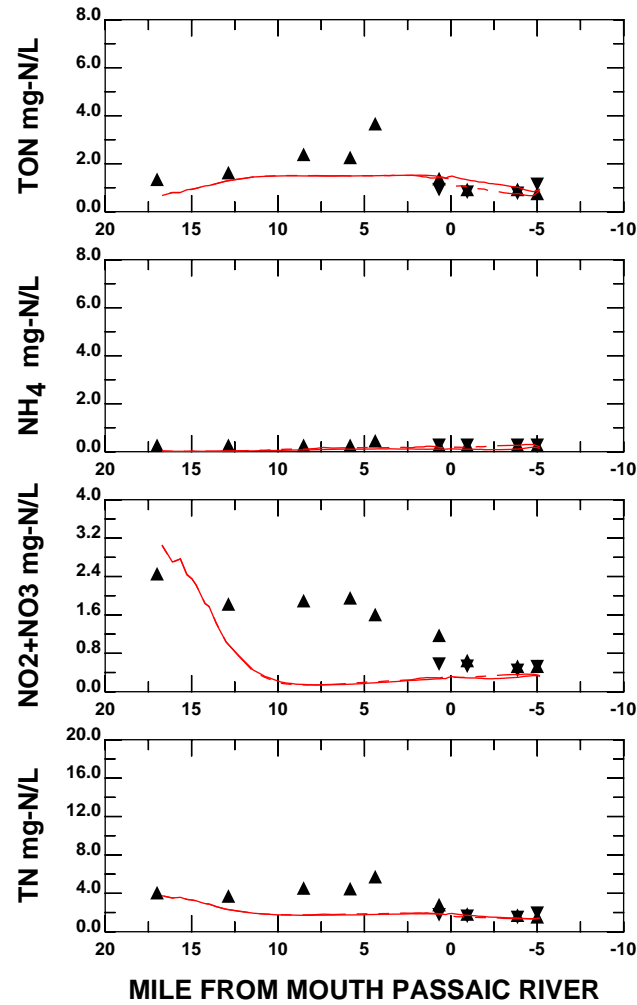
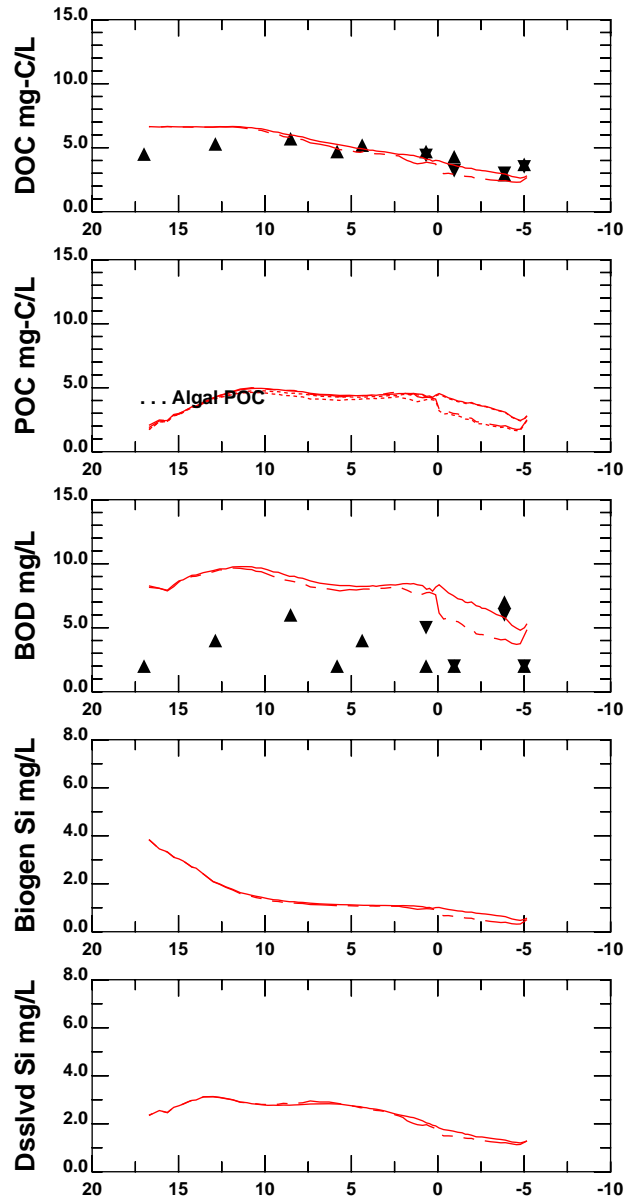
MILE FROM MOUTH PASSAIC RIVER



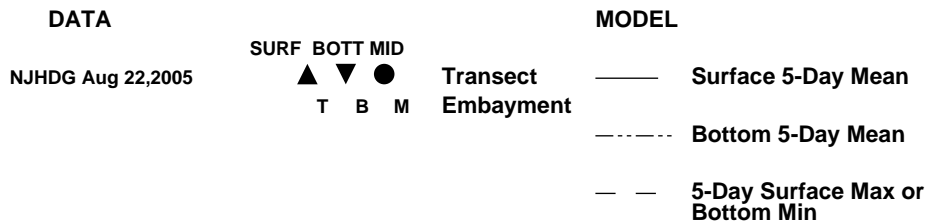
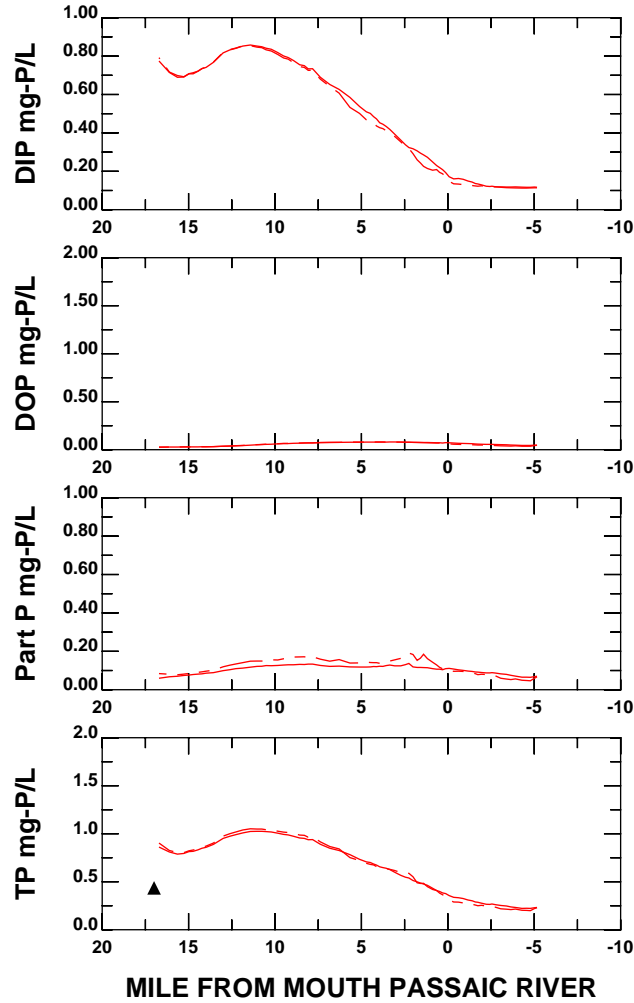
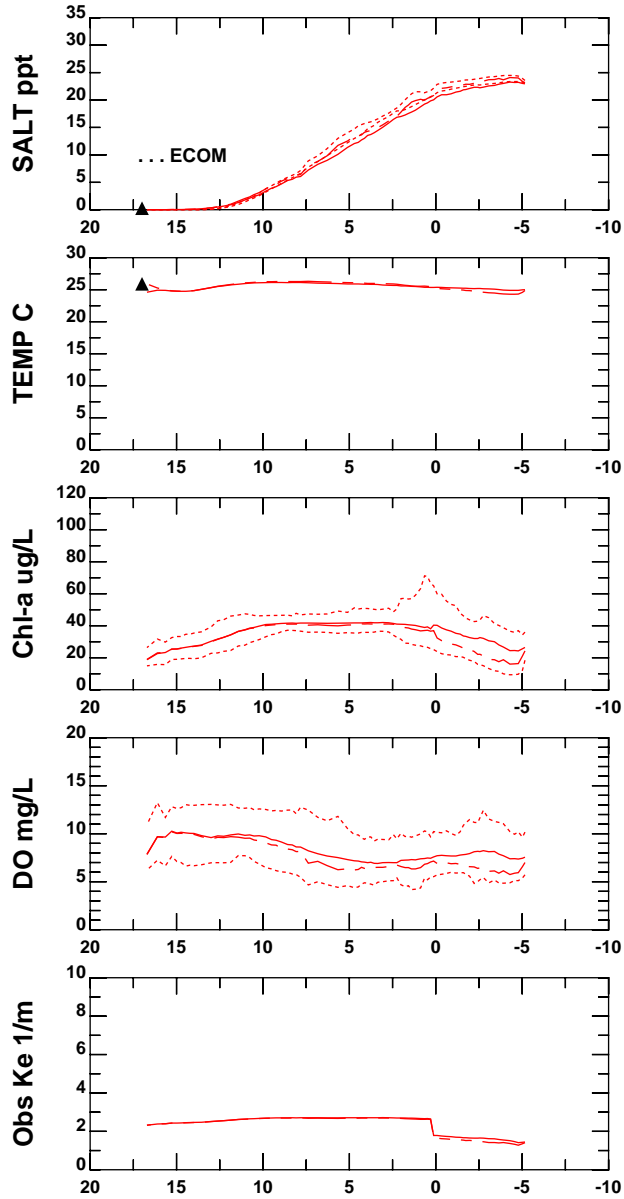


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

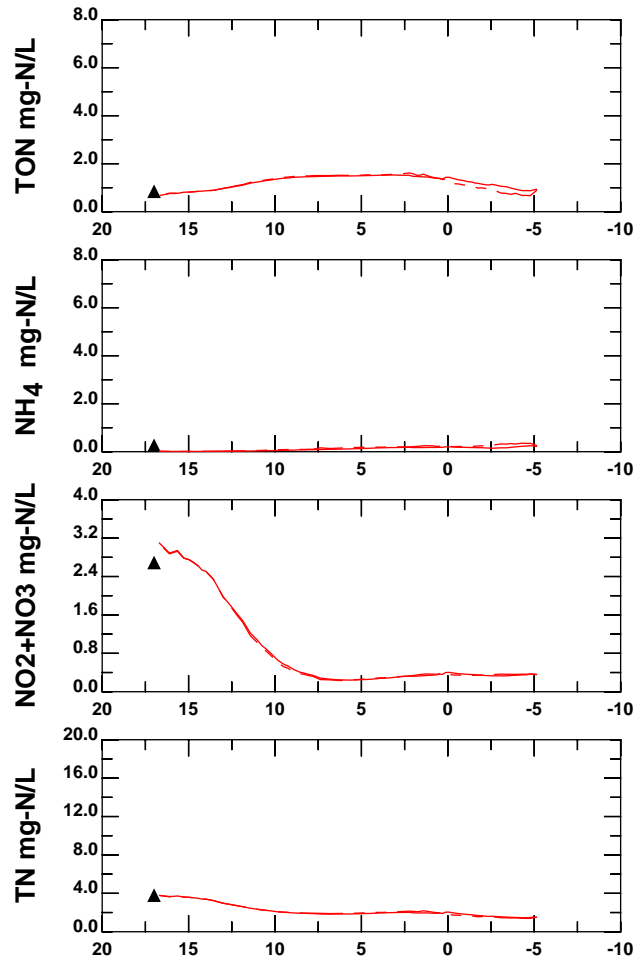
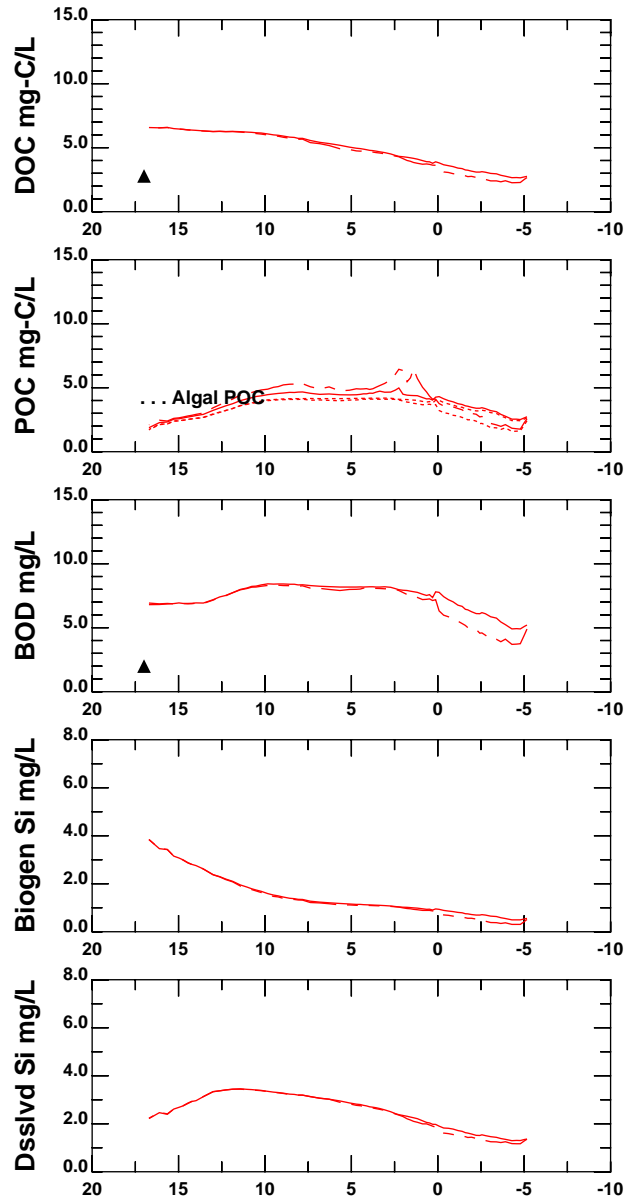




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



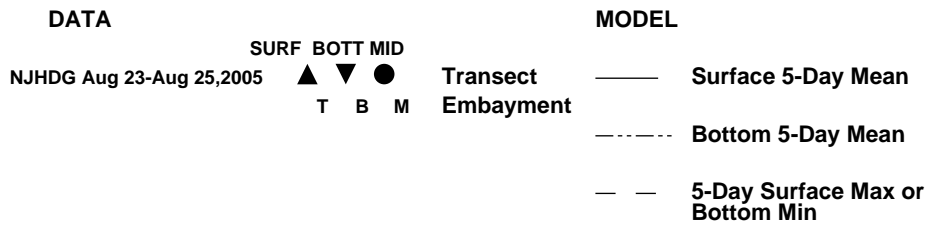
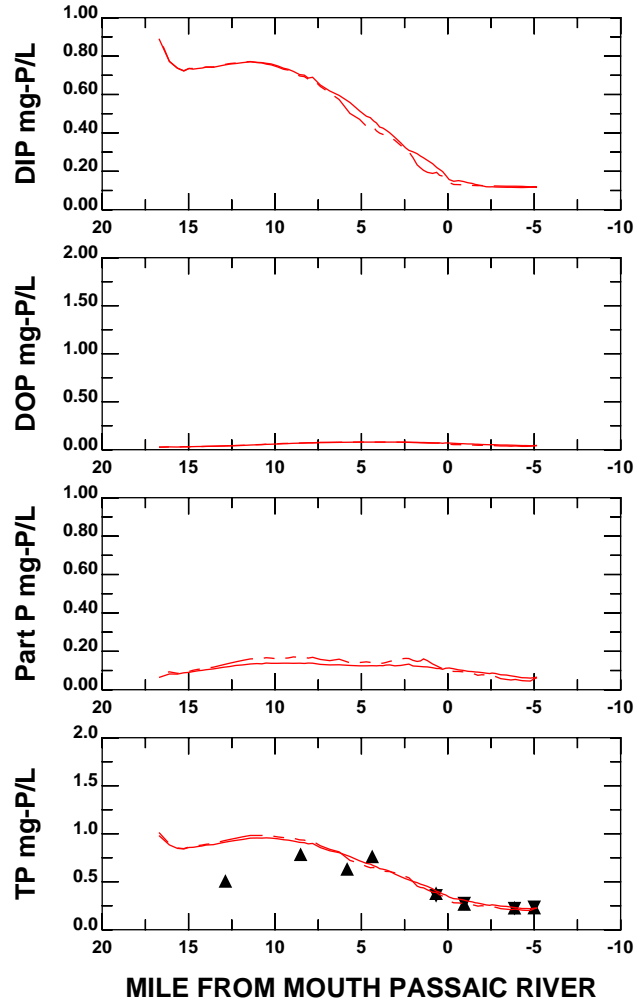
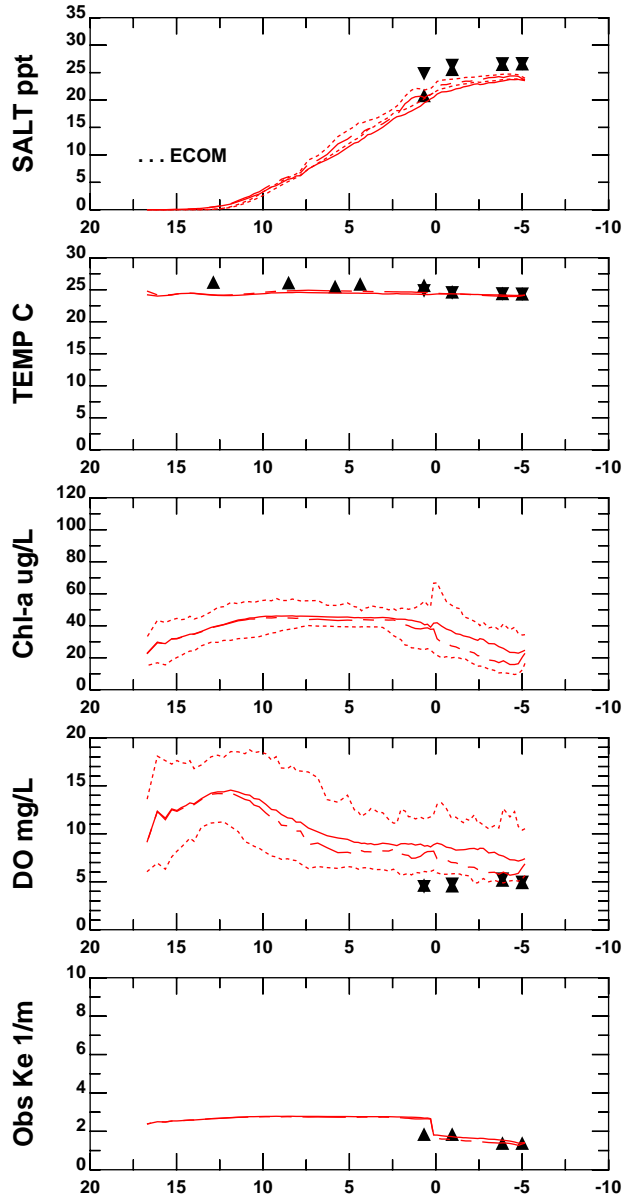
DATA  
NJHDG Aug 22,2005

MODEL

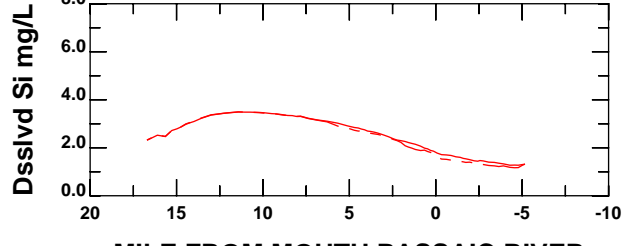
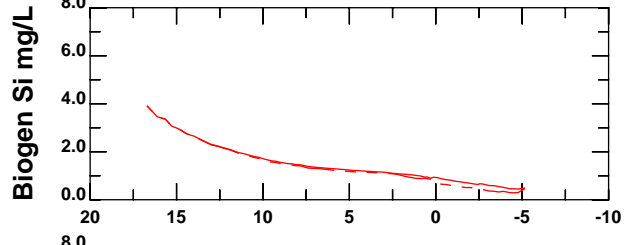
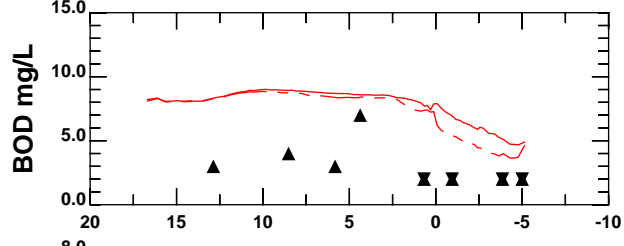
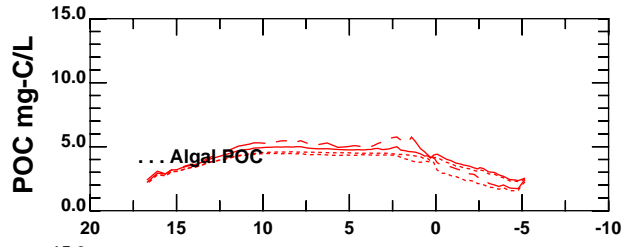
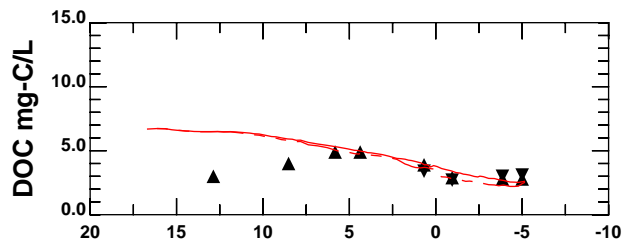
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



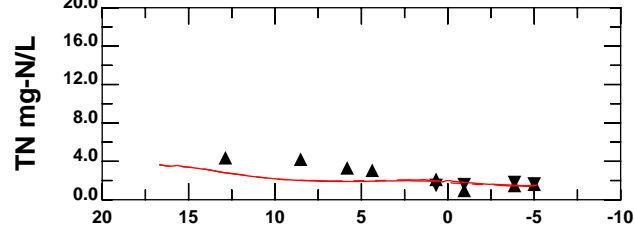
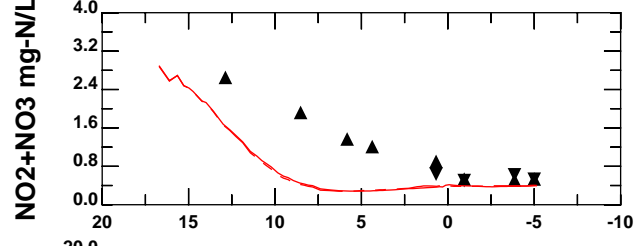
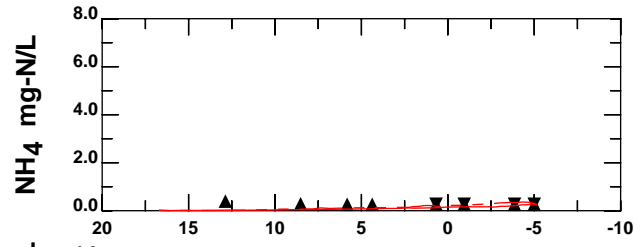
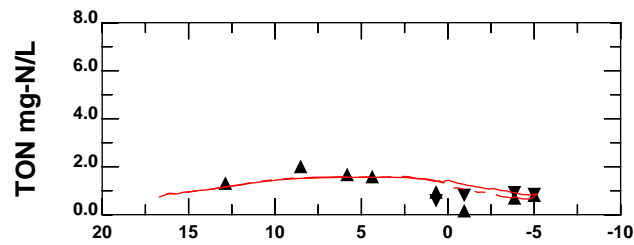
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



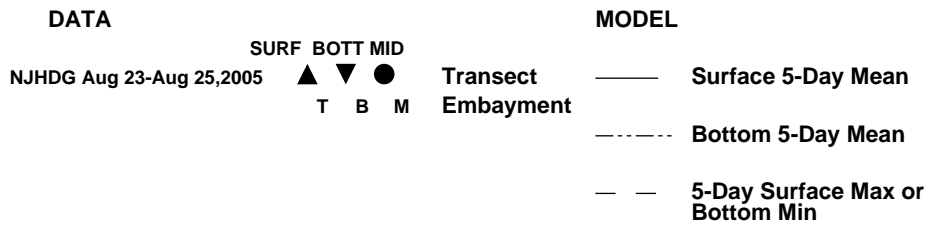
MILE FROM MOUTH PASSAIC RIVER

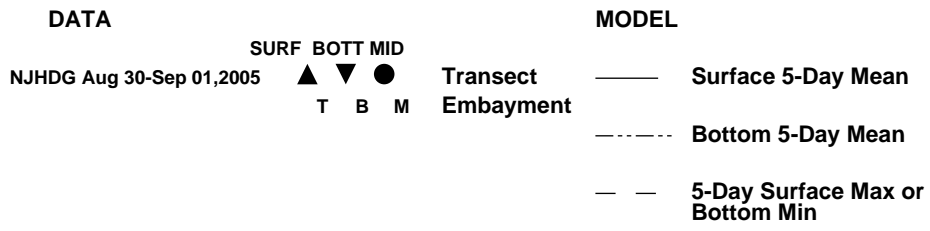
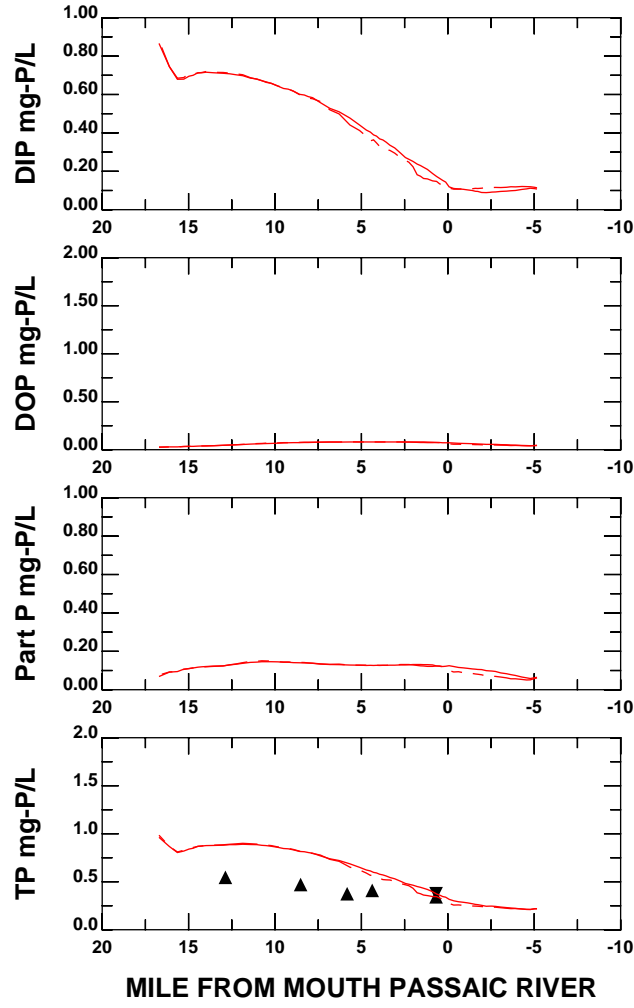
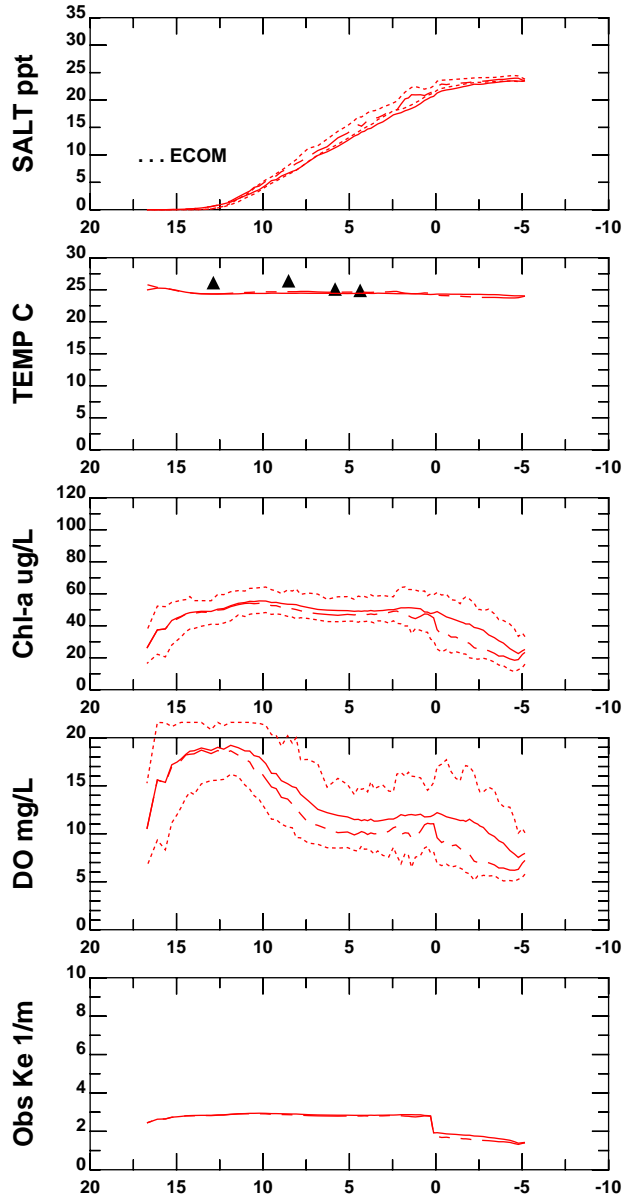
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0405

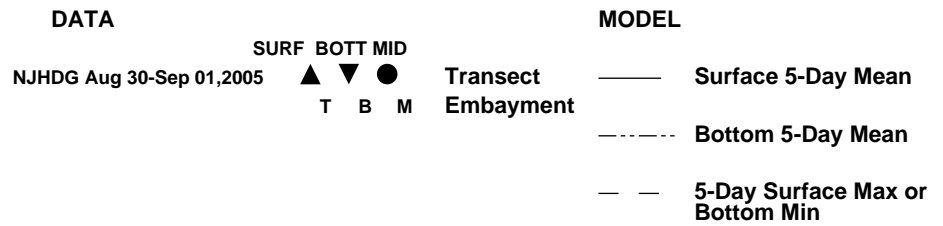
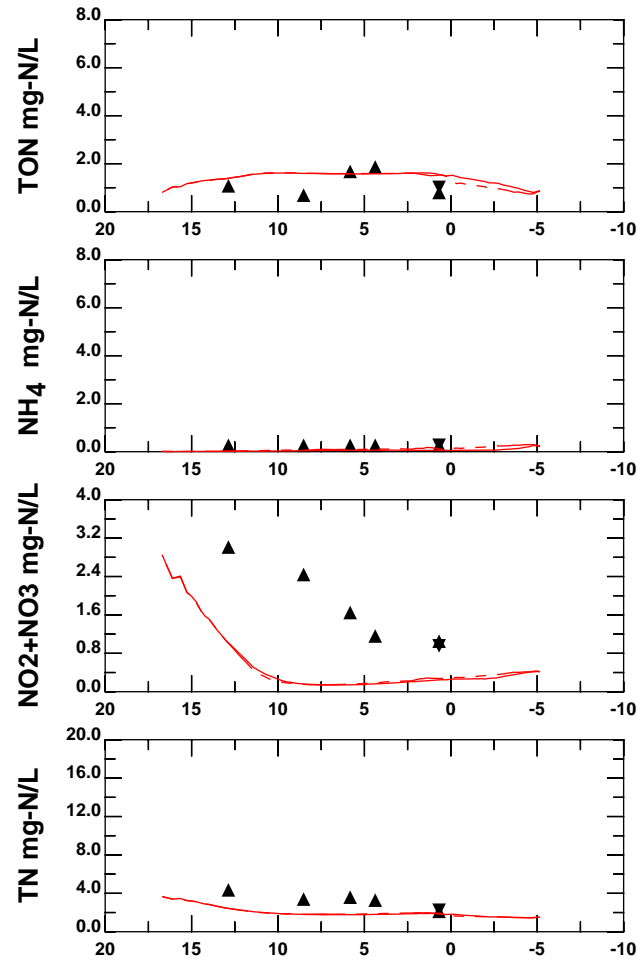
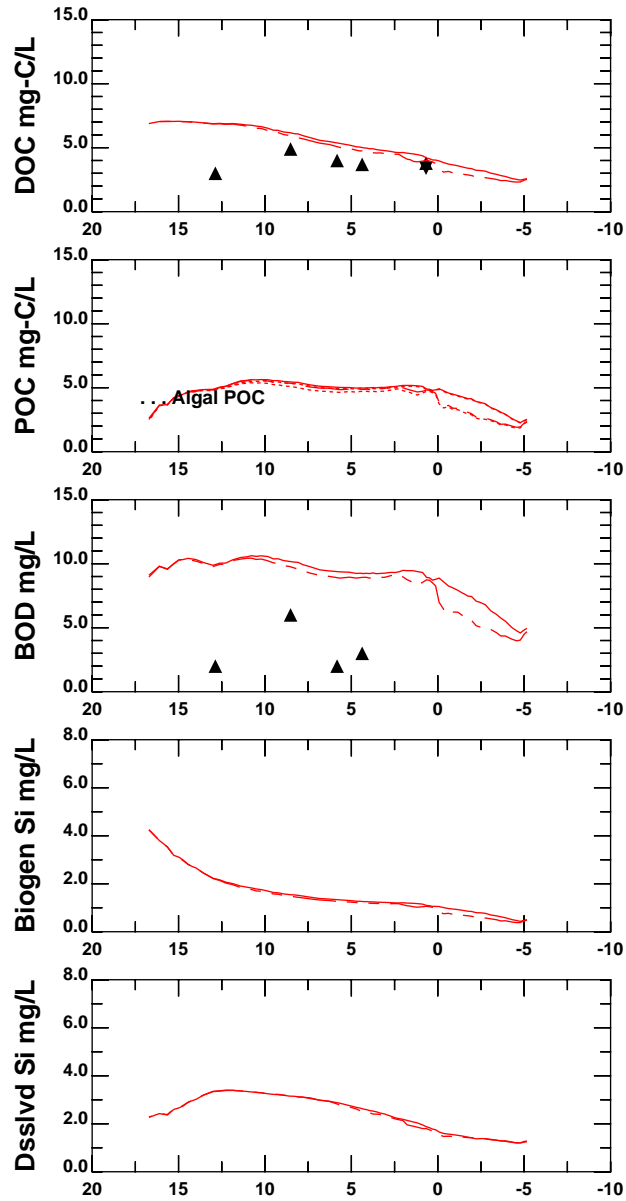


MILE FROM MOUTH PASSAIC RIVER

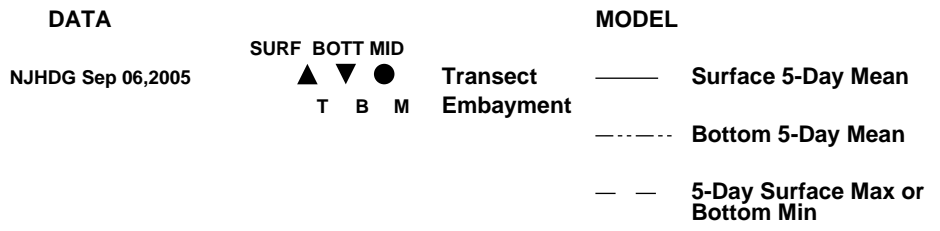
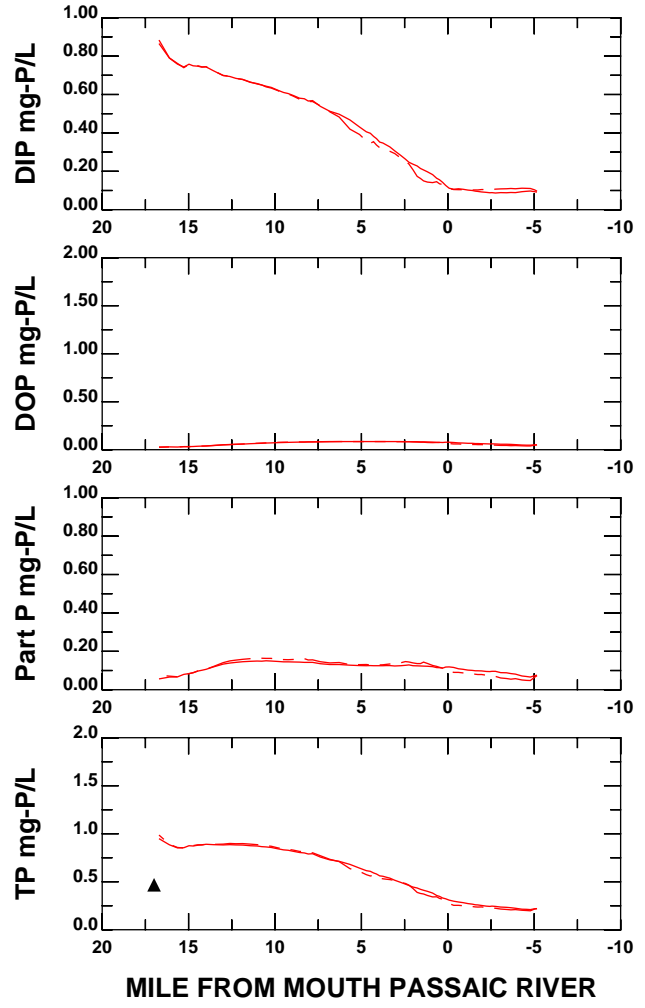
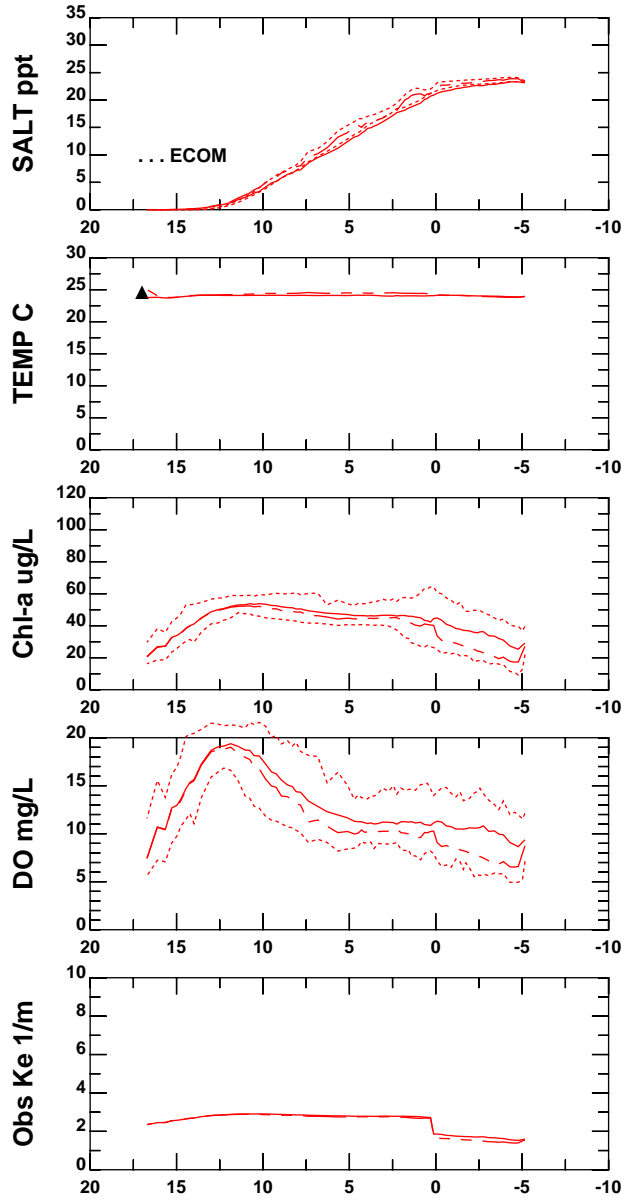




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

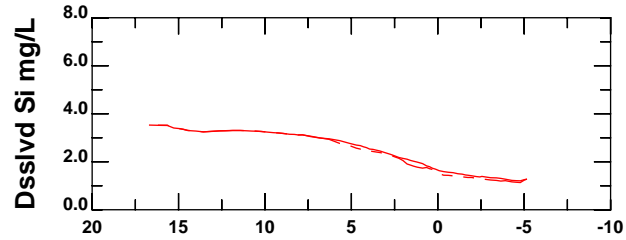
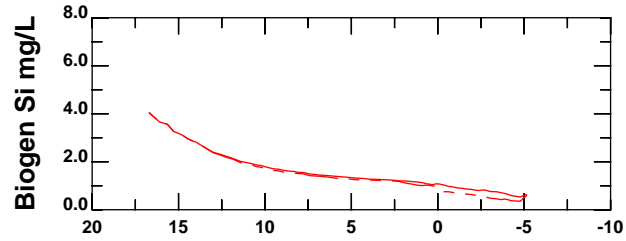
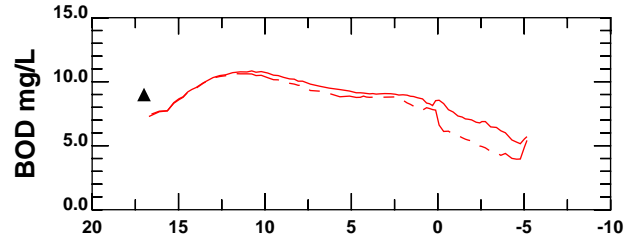
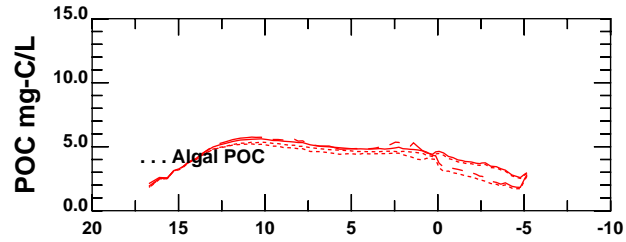
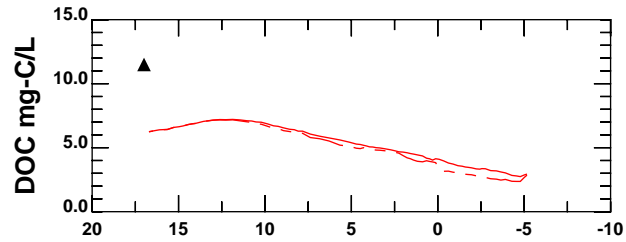


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

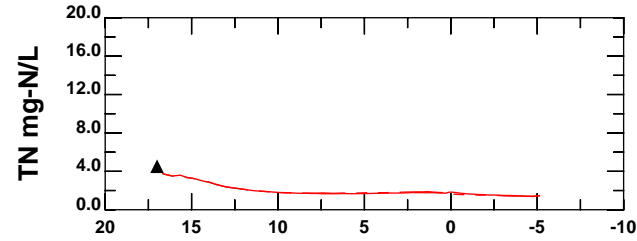
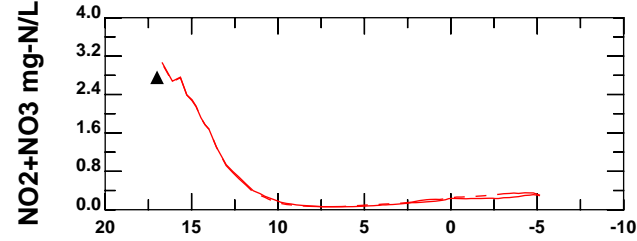
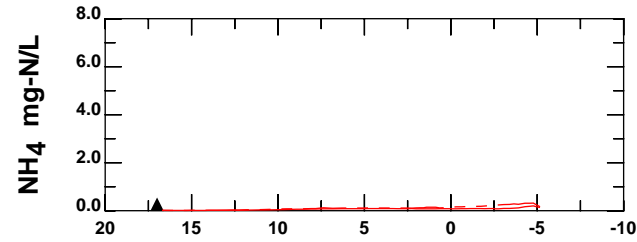
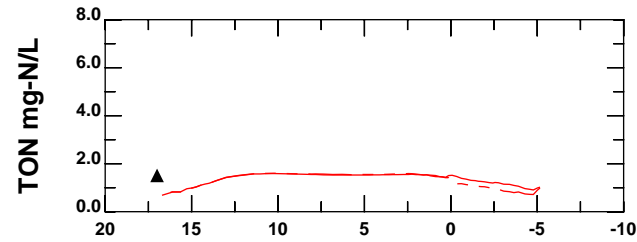


**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Sep 06,2005

SURF BOTT MID

▲ ▼ ●  
T B M

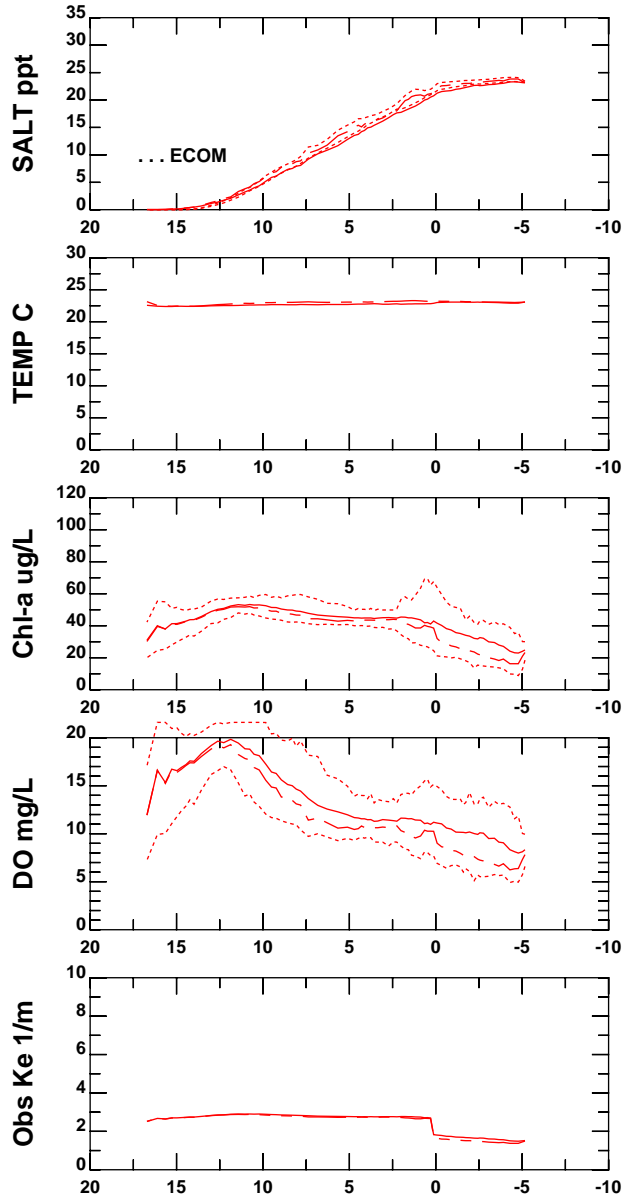
Transect  
Embayment

MODEL

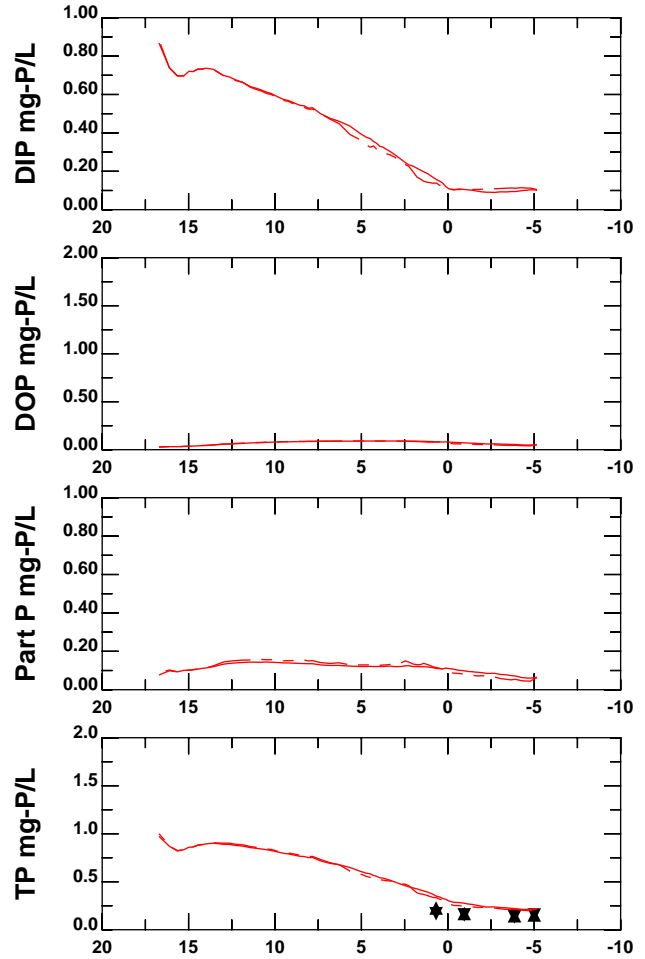
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Sep 08,2005

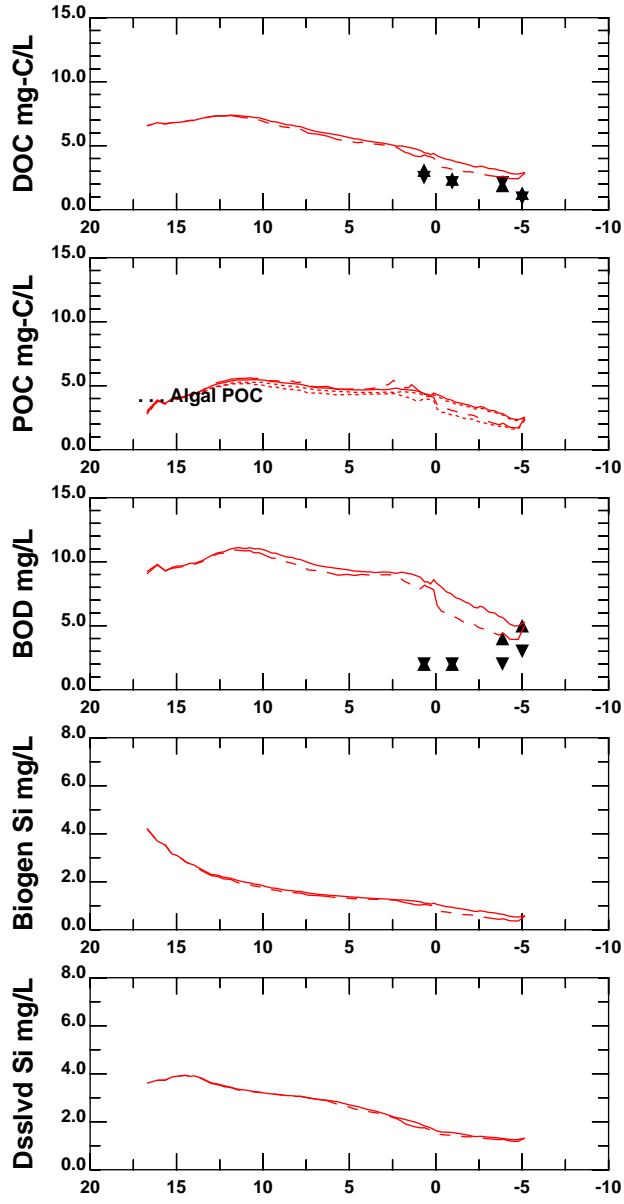
SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

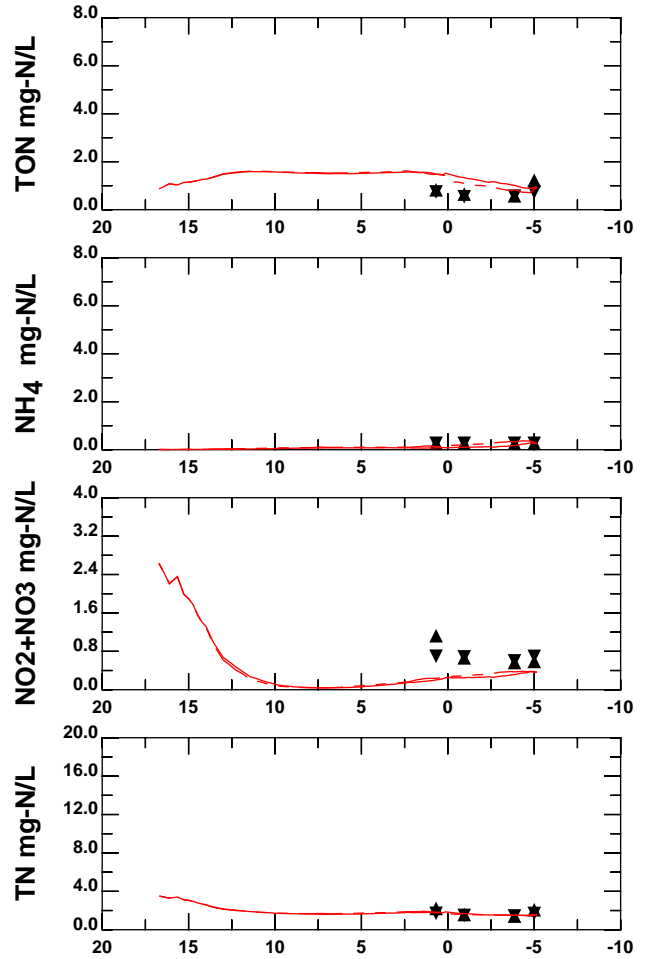
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405



MILE FROM MOUTH PASSAIC RIVER



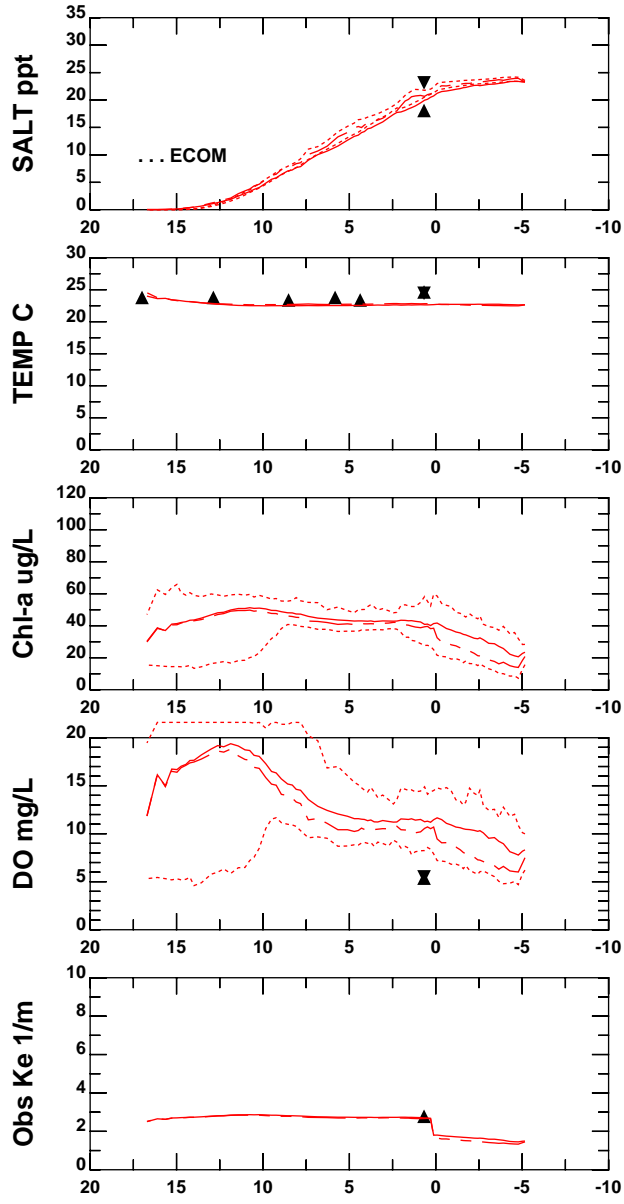
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Sep 08,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

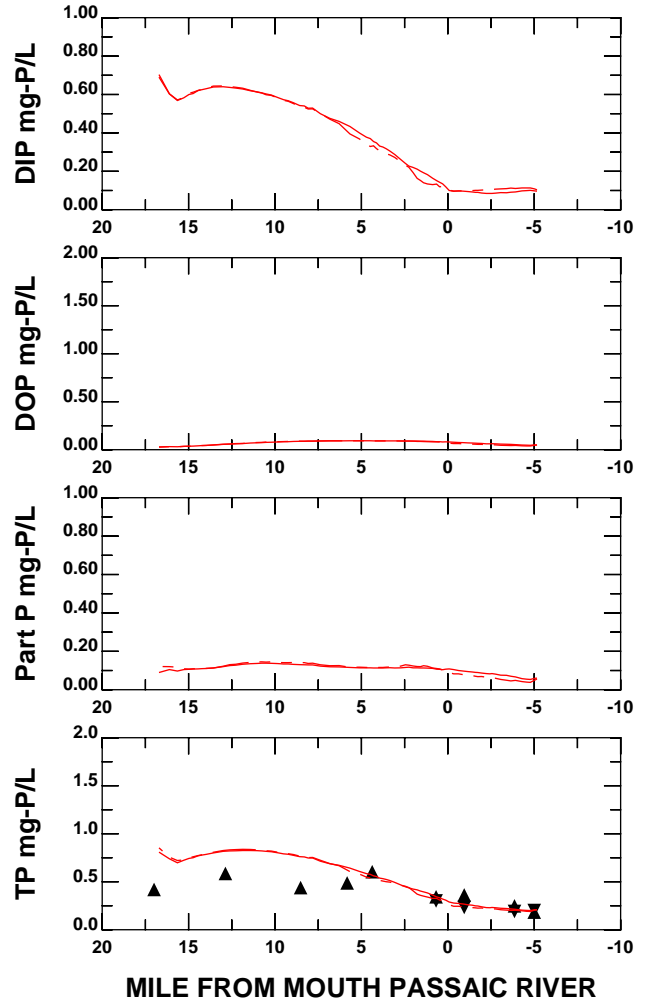
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0405

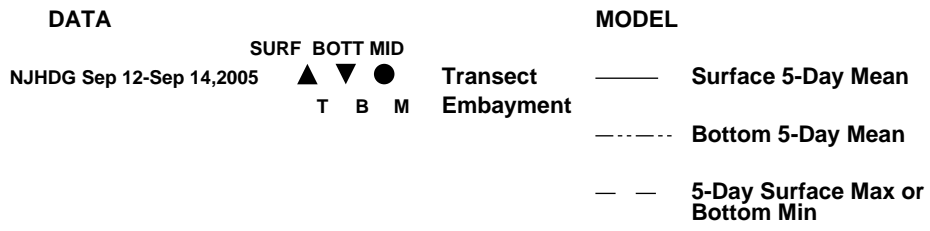


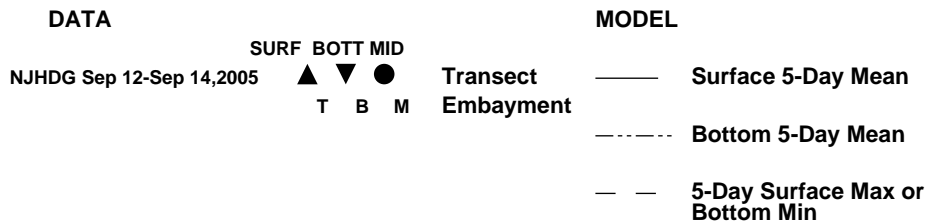
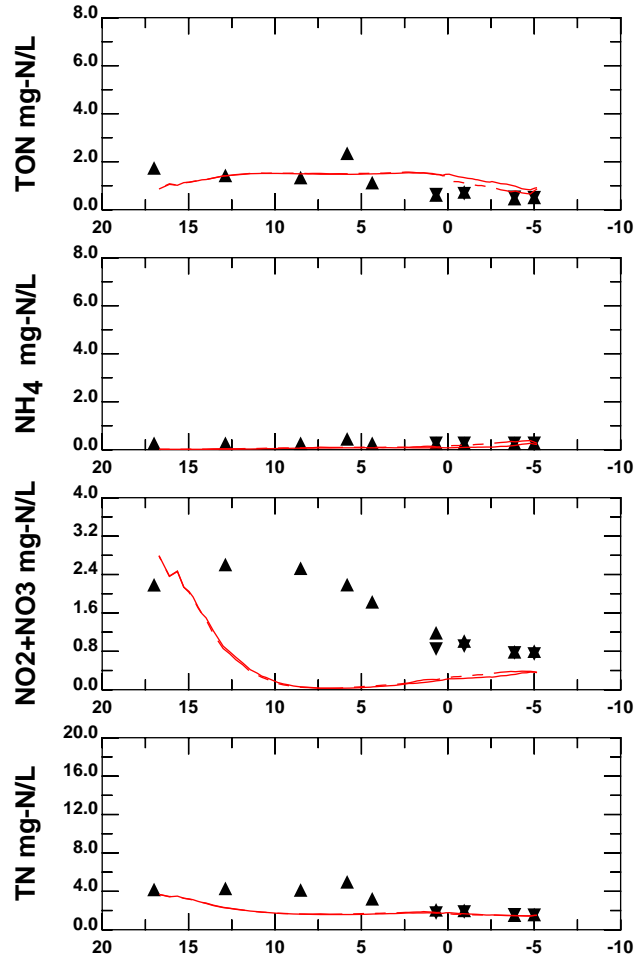
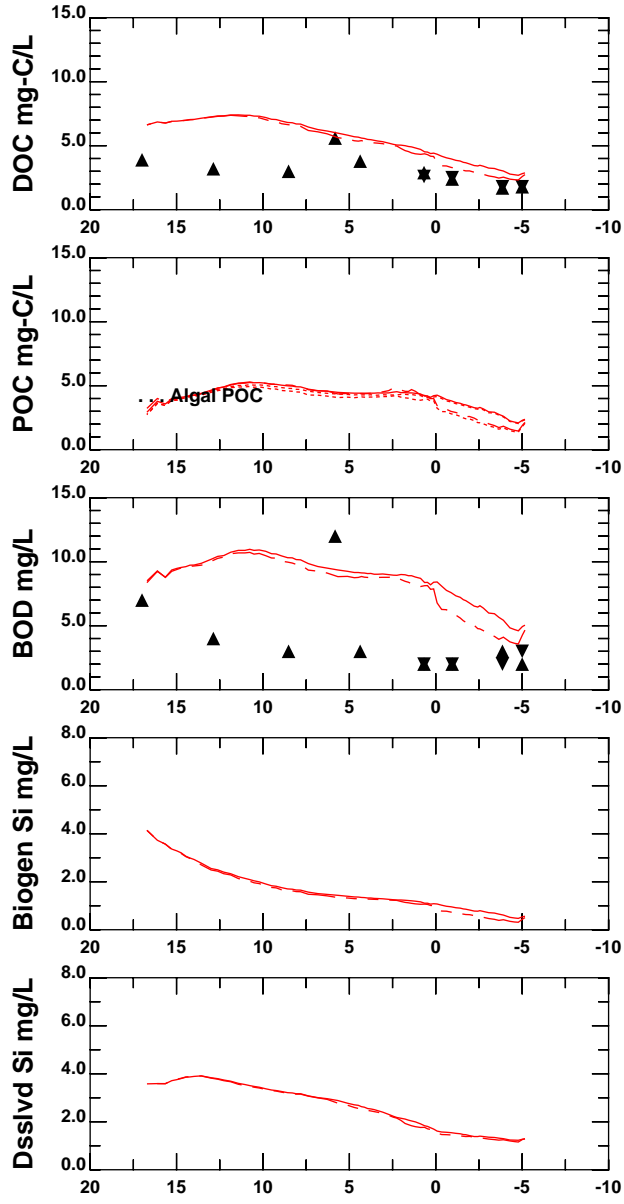
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405

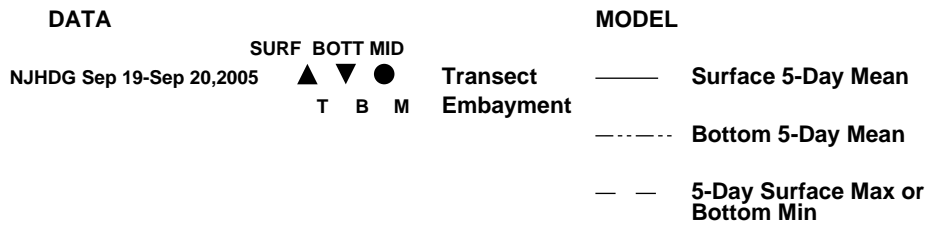
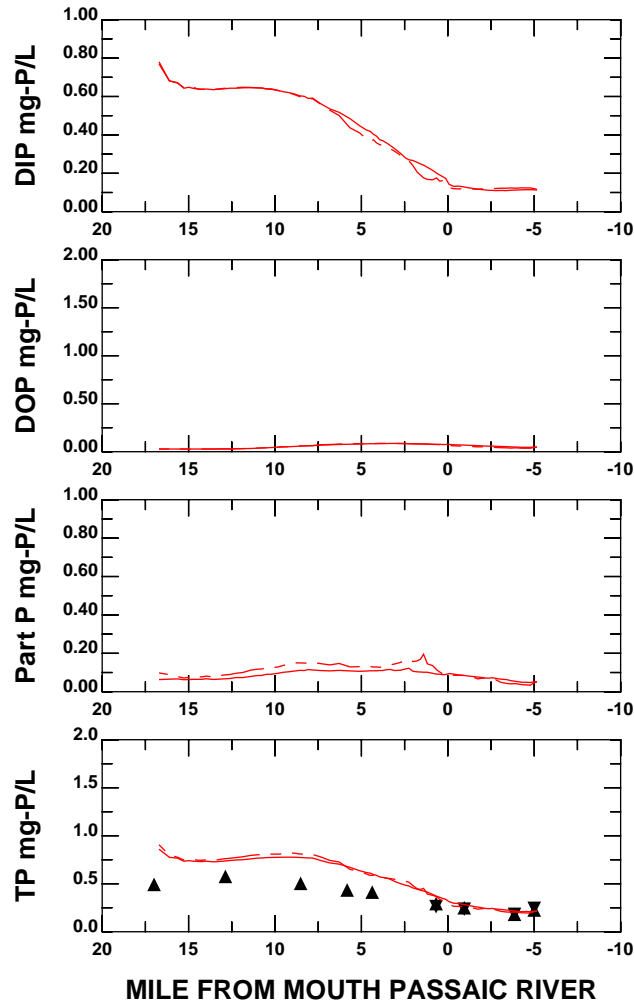
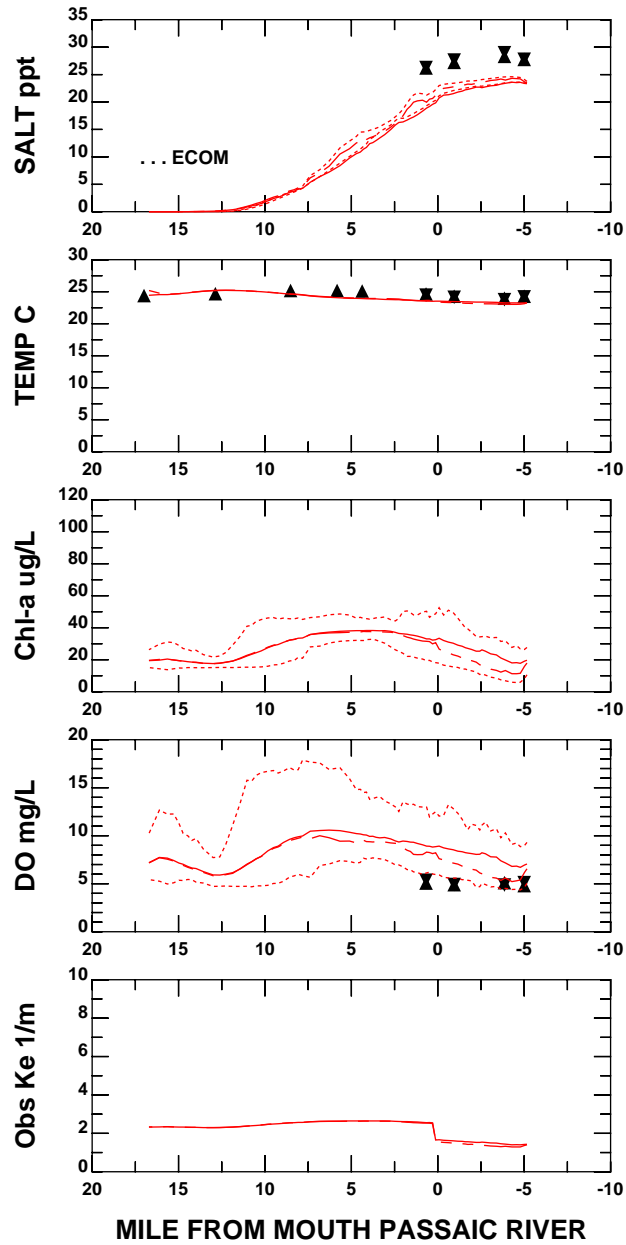


MILE FROM MOUTH PASSAIC RIVER

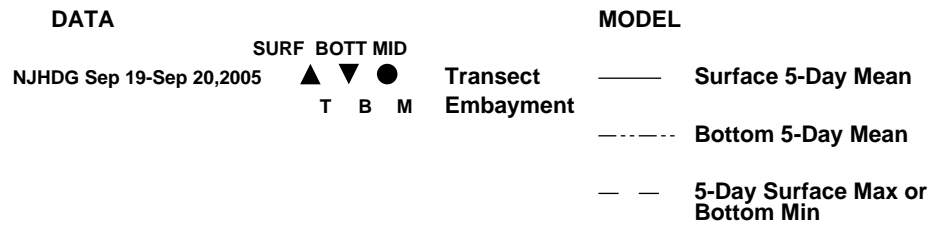
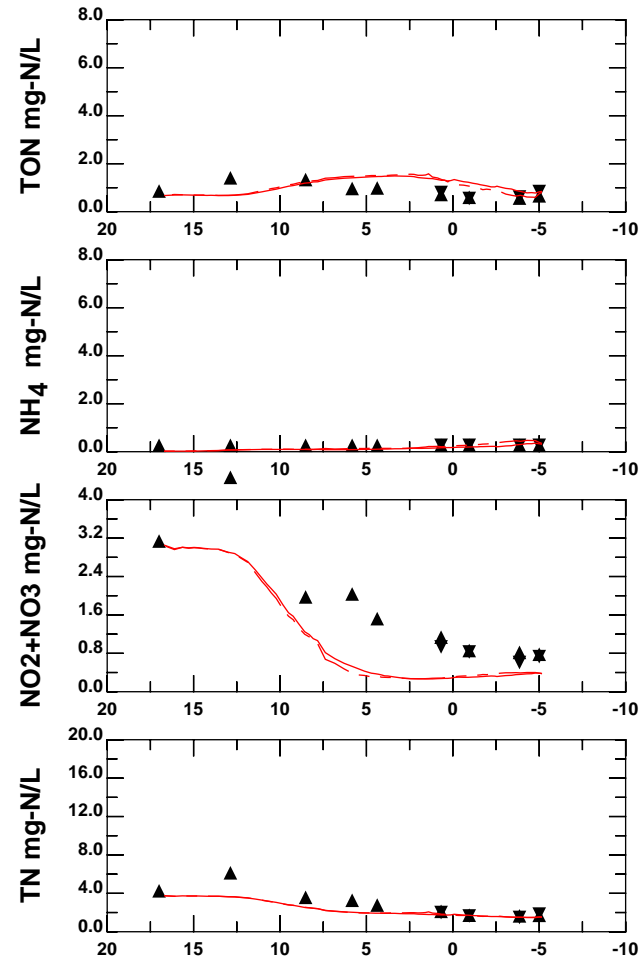
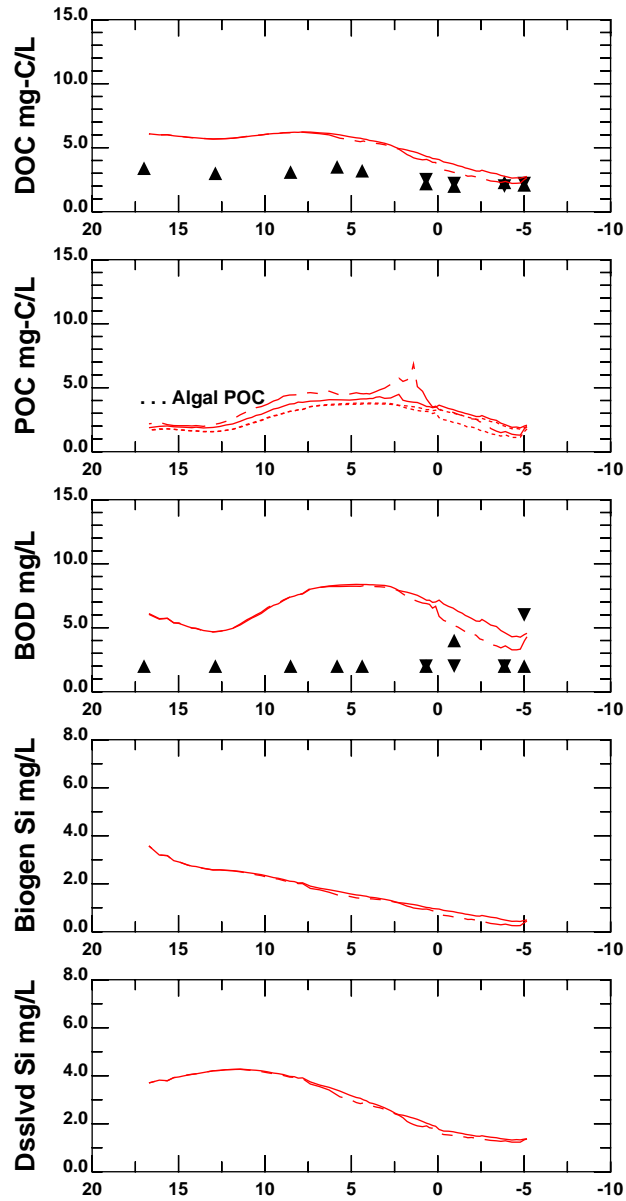




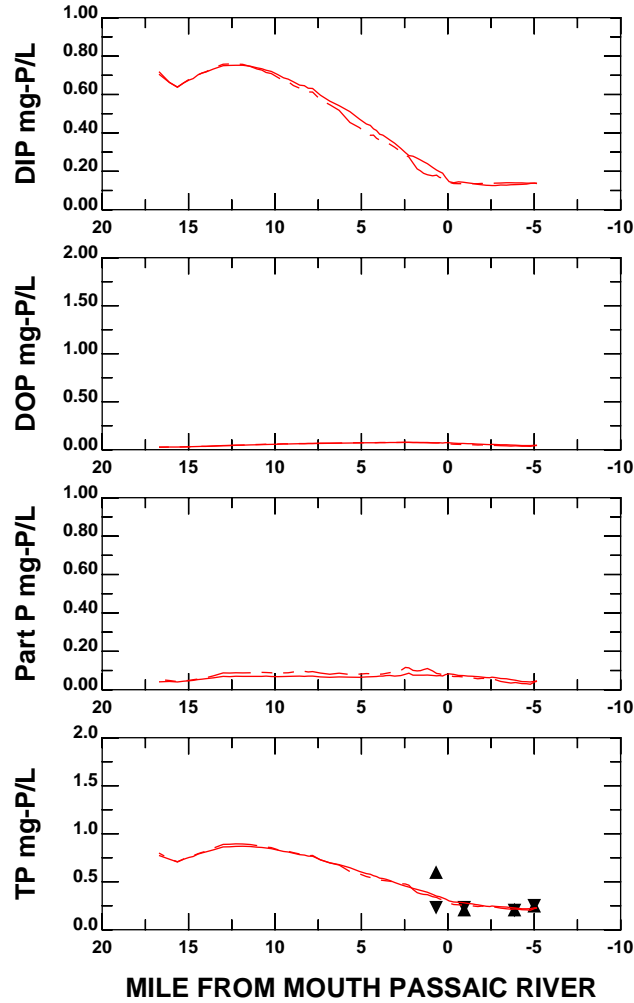
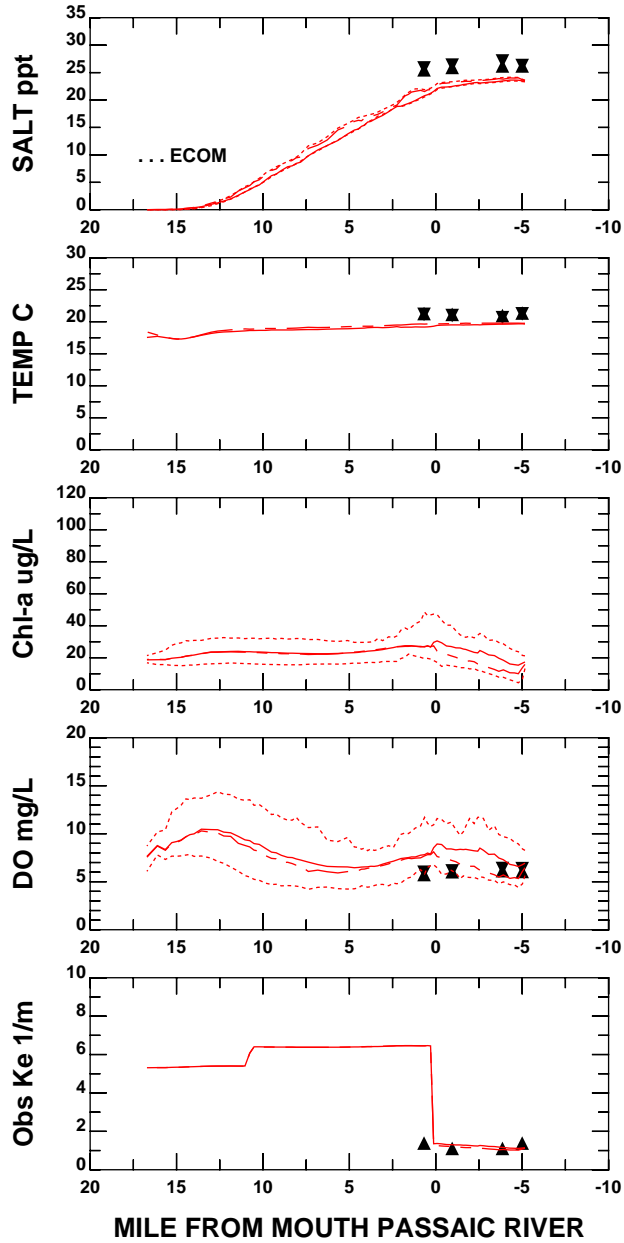
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0405



**DATA**  
NJHDG Oct 06,2005

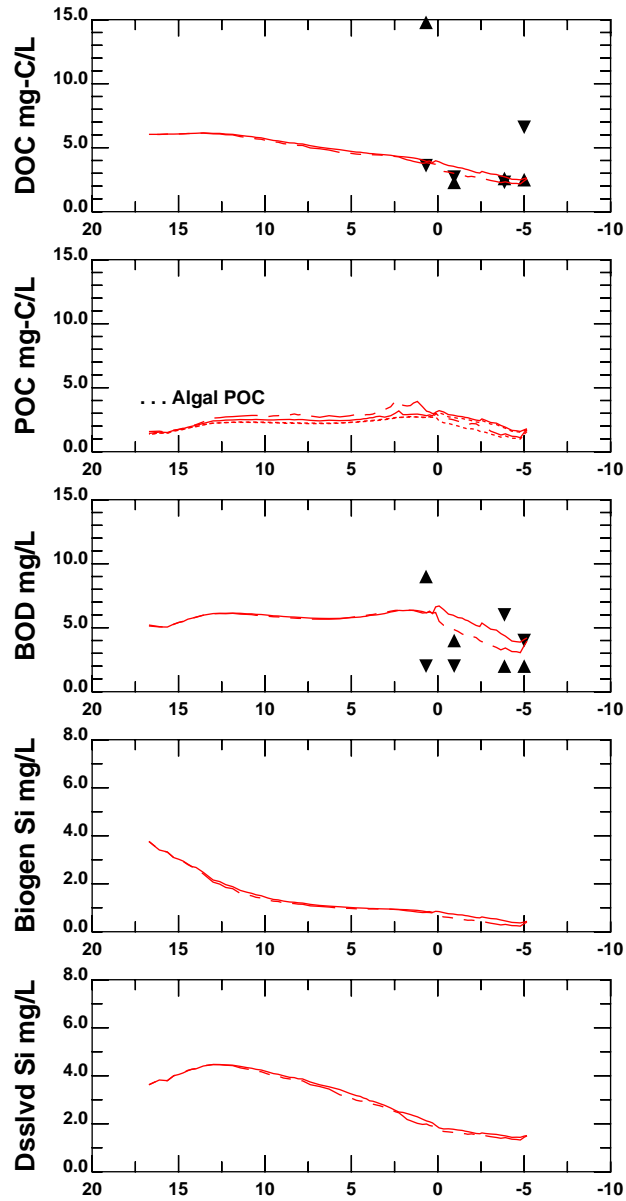
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

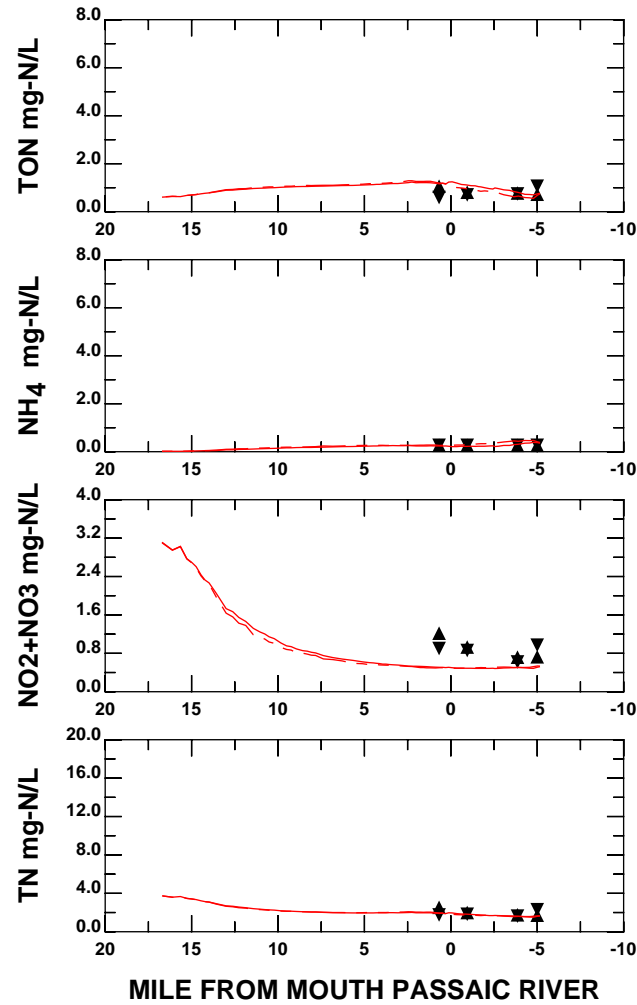




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Oct 06,2005

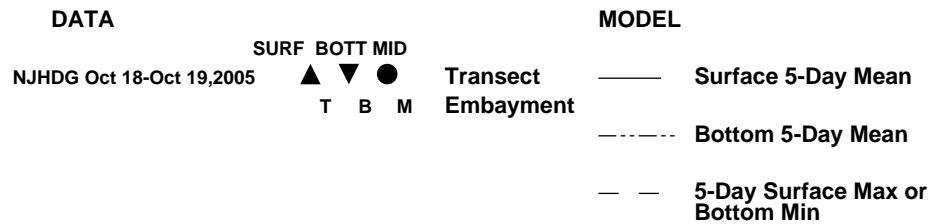
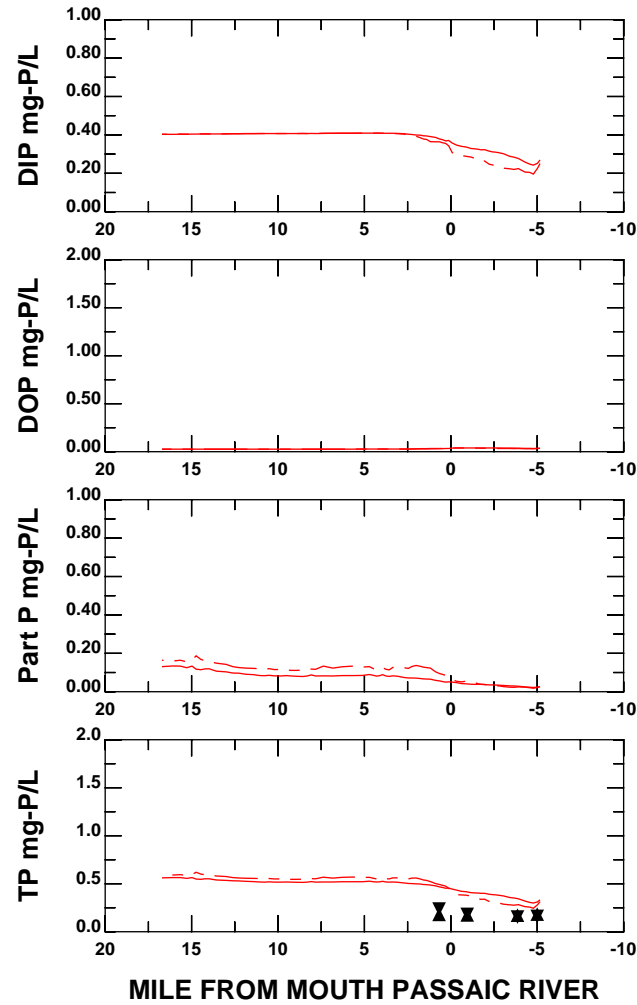
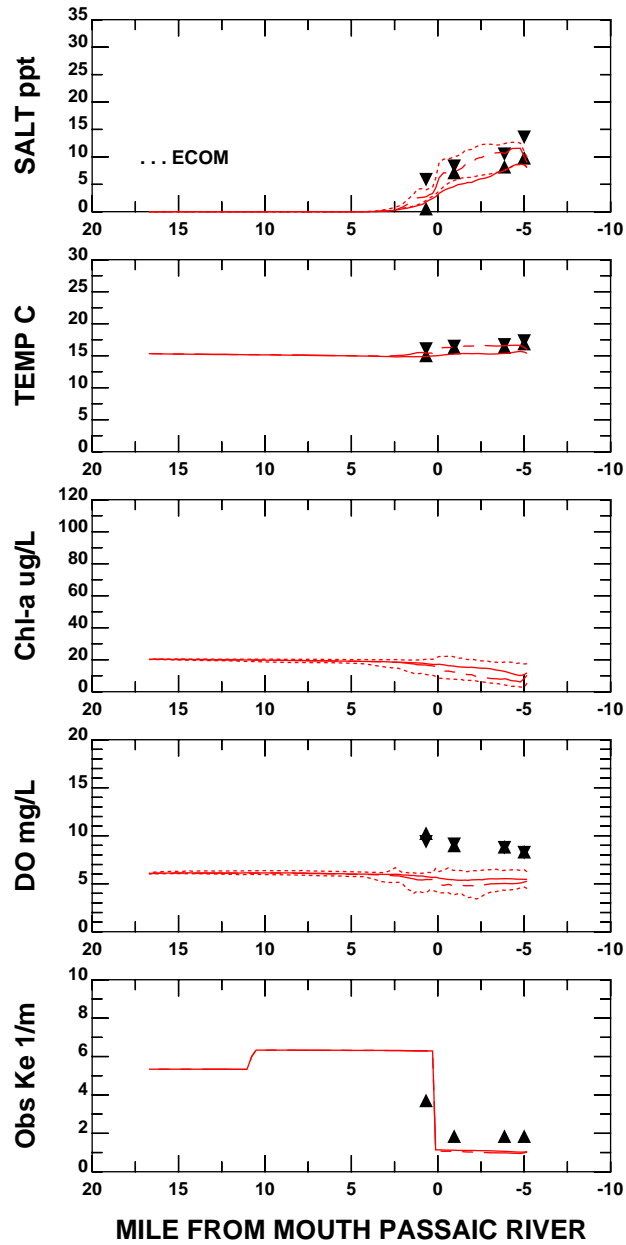
SURF BOTT MID

▲ ▼ ●  
T B M

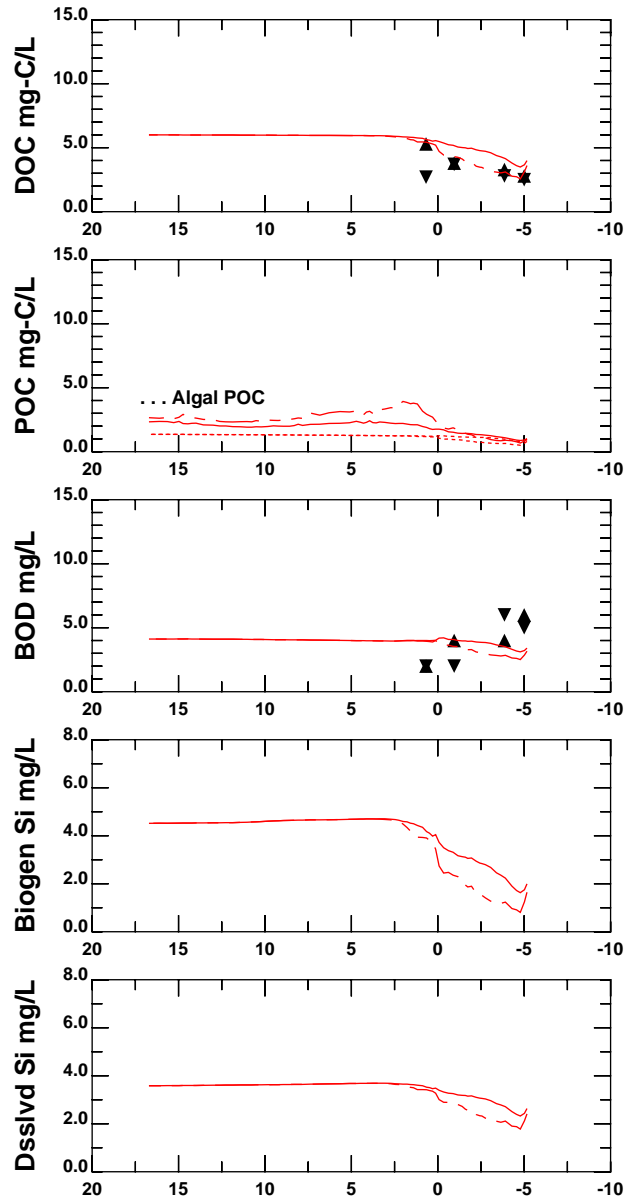
Transect  
Embayment

#### MODEL

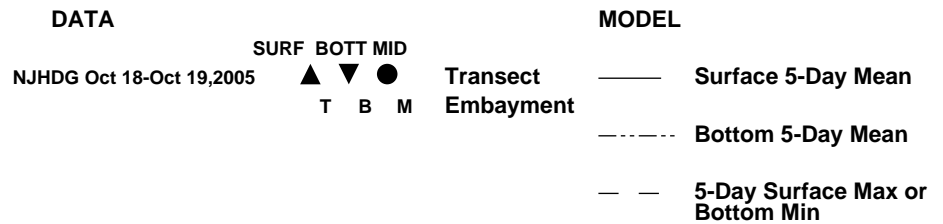
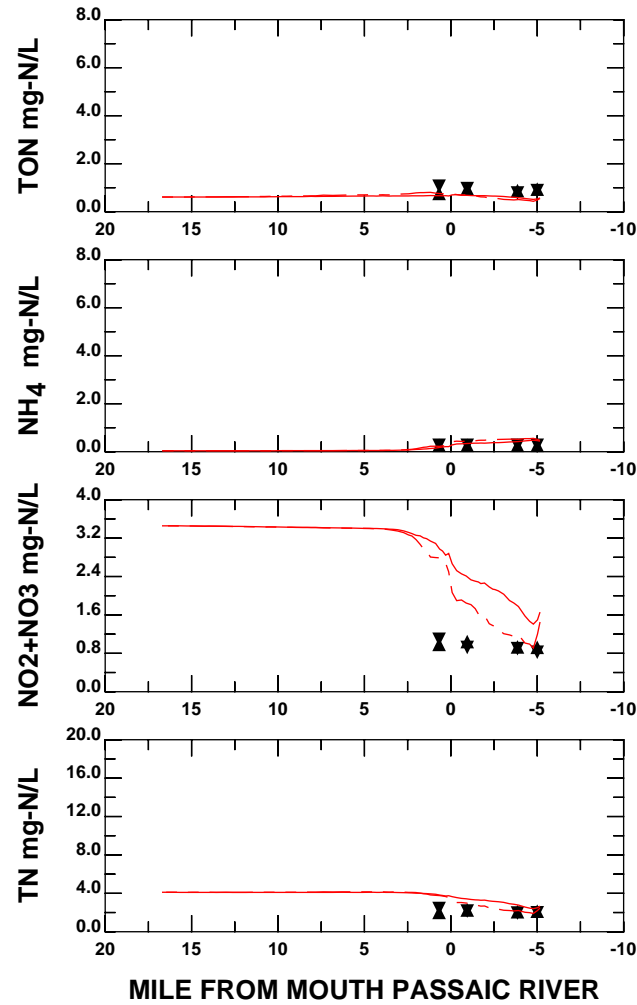
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

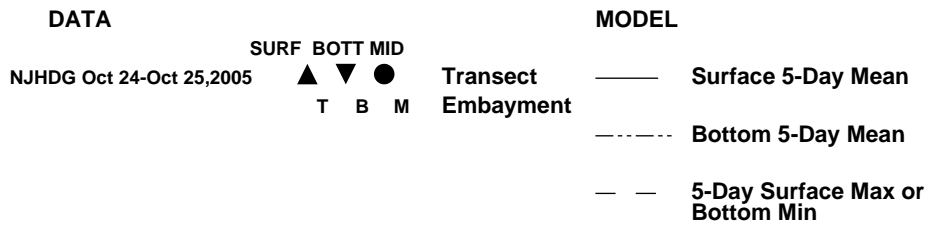
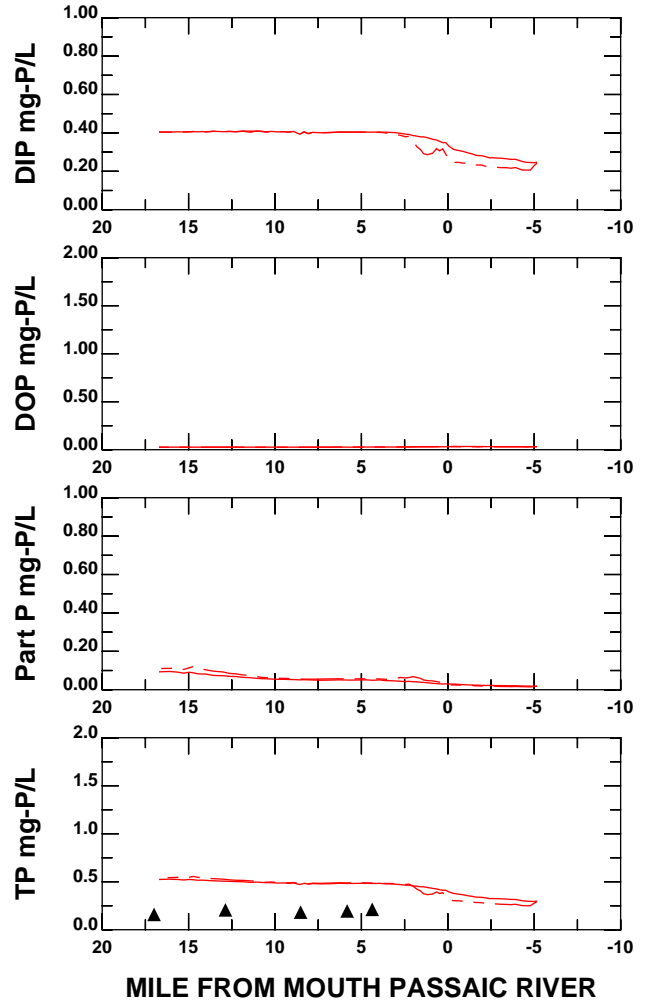
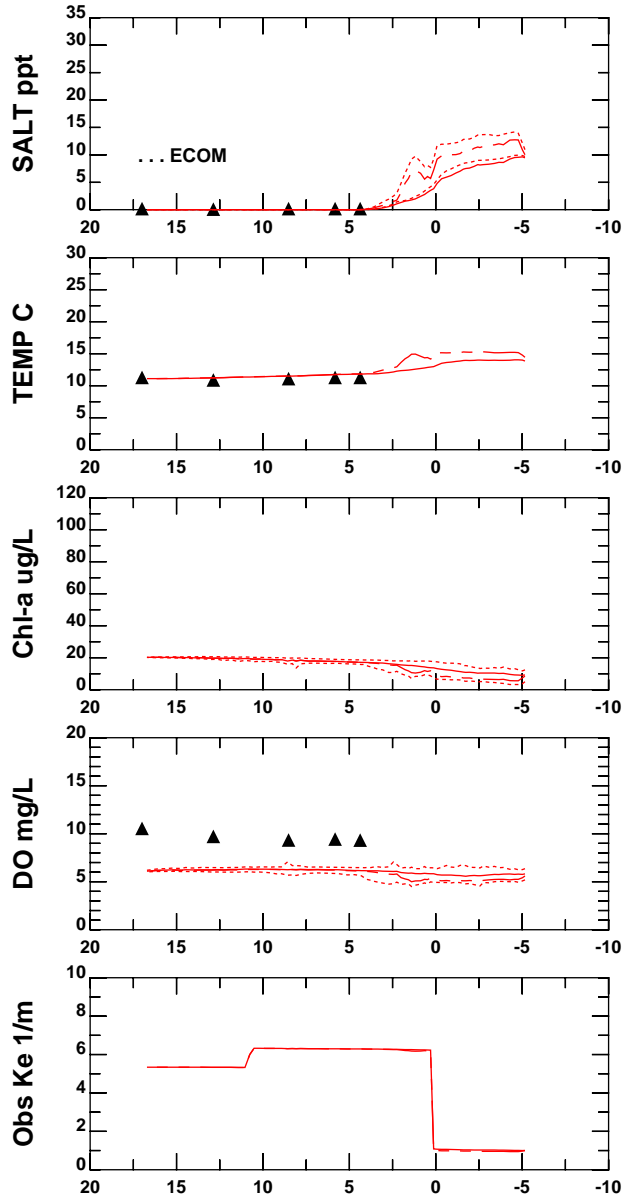


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

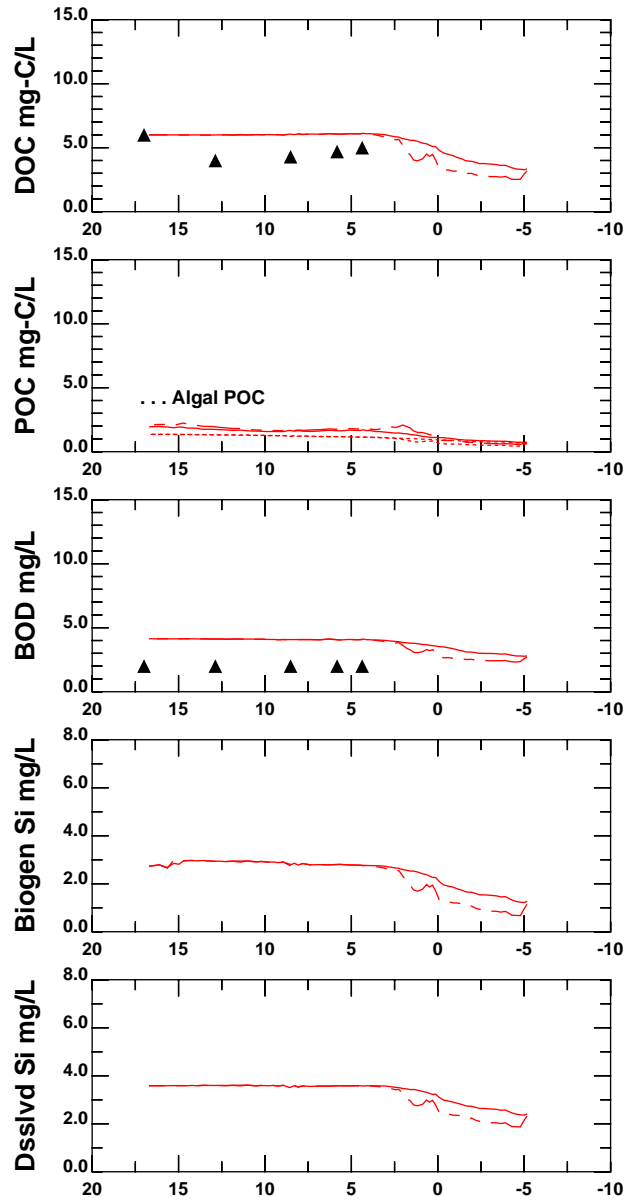


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506





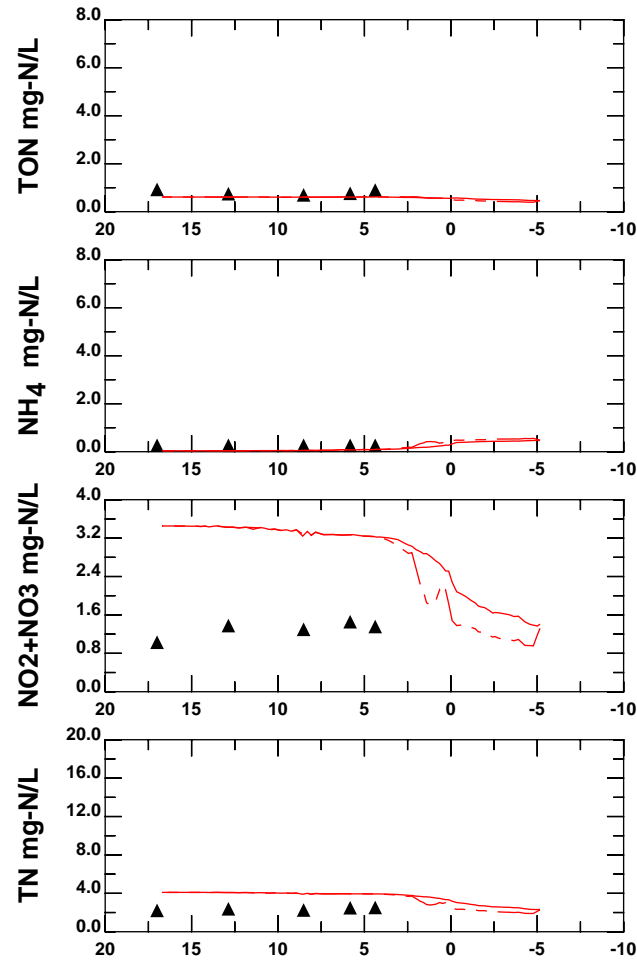
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



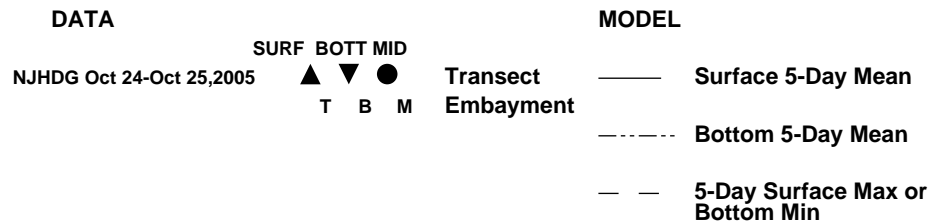
MILE FROM MOUTH PASSAIC RIVER

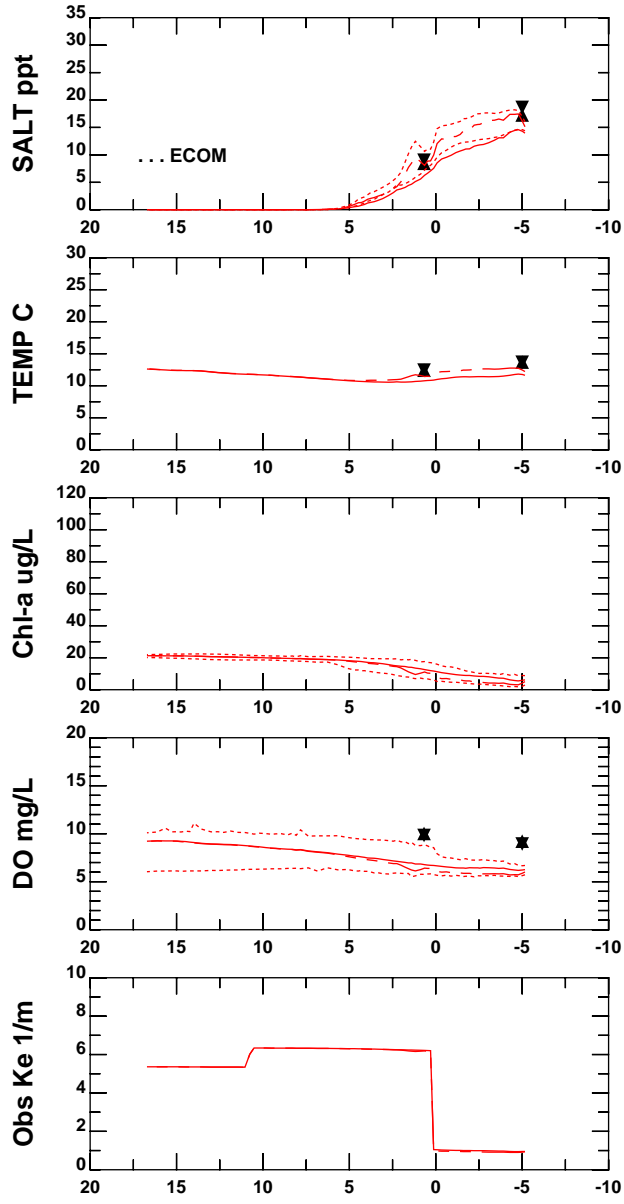
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



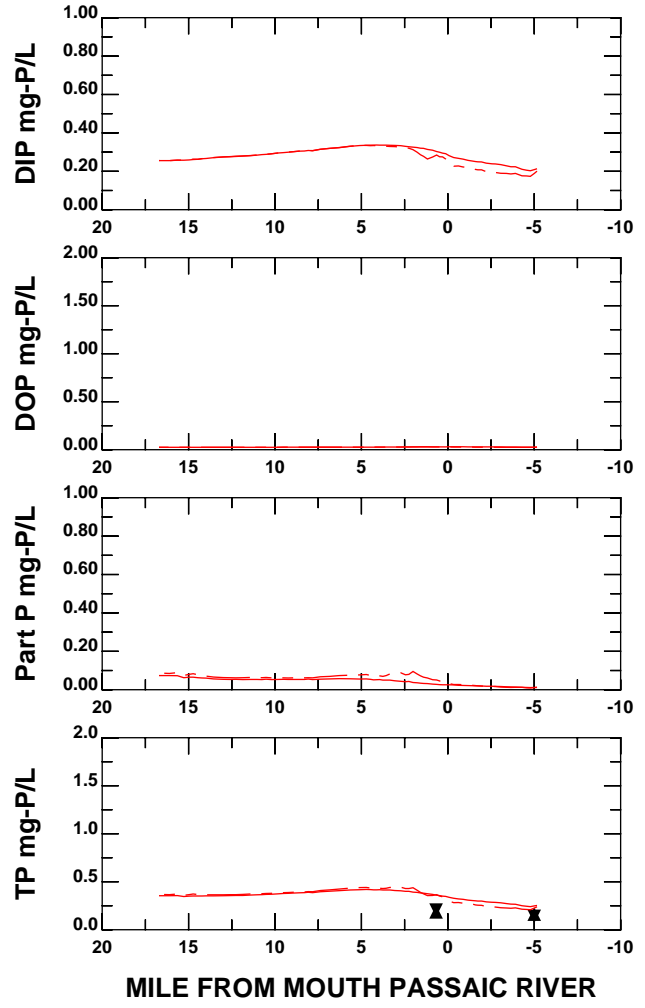
MILE FROM MOUTH PASSAIC RIVER





MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

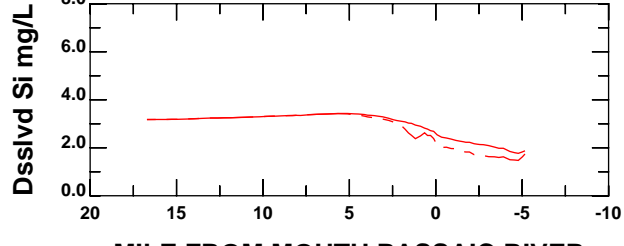
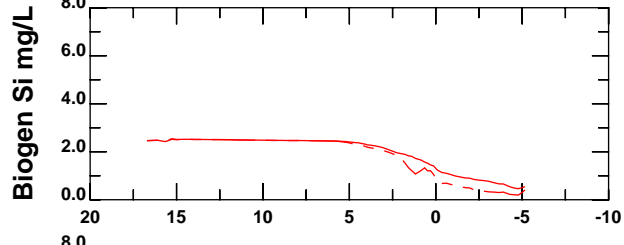
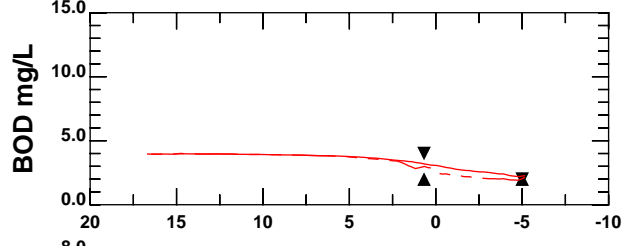
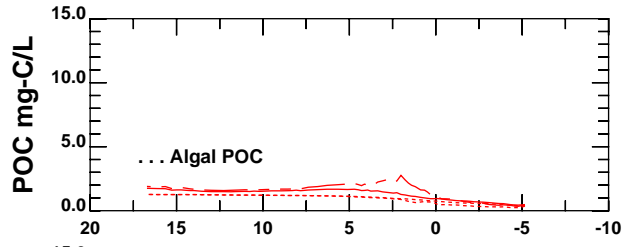
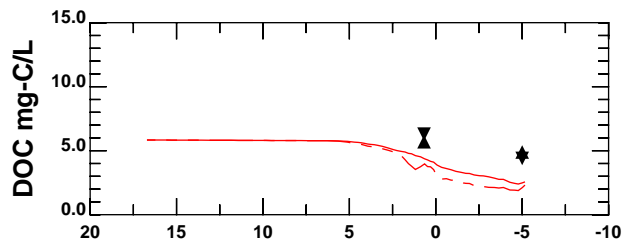


MILE FROM MOUTH PASSAIC RIVER

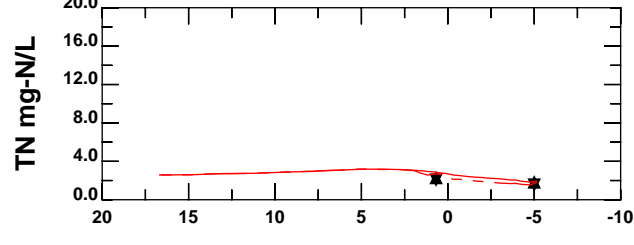
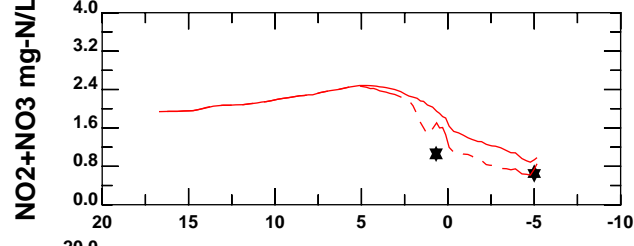
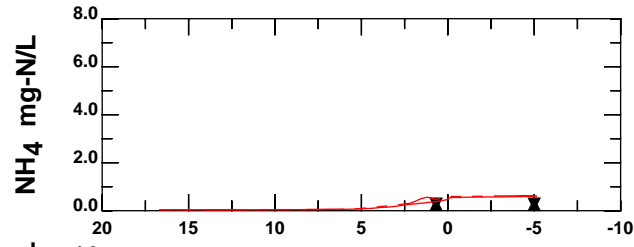
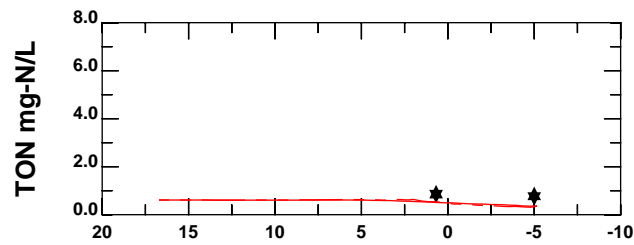
DATA  
 NJHDG Nov 03,2005

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Nov 03,2005

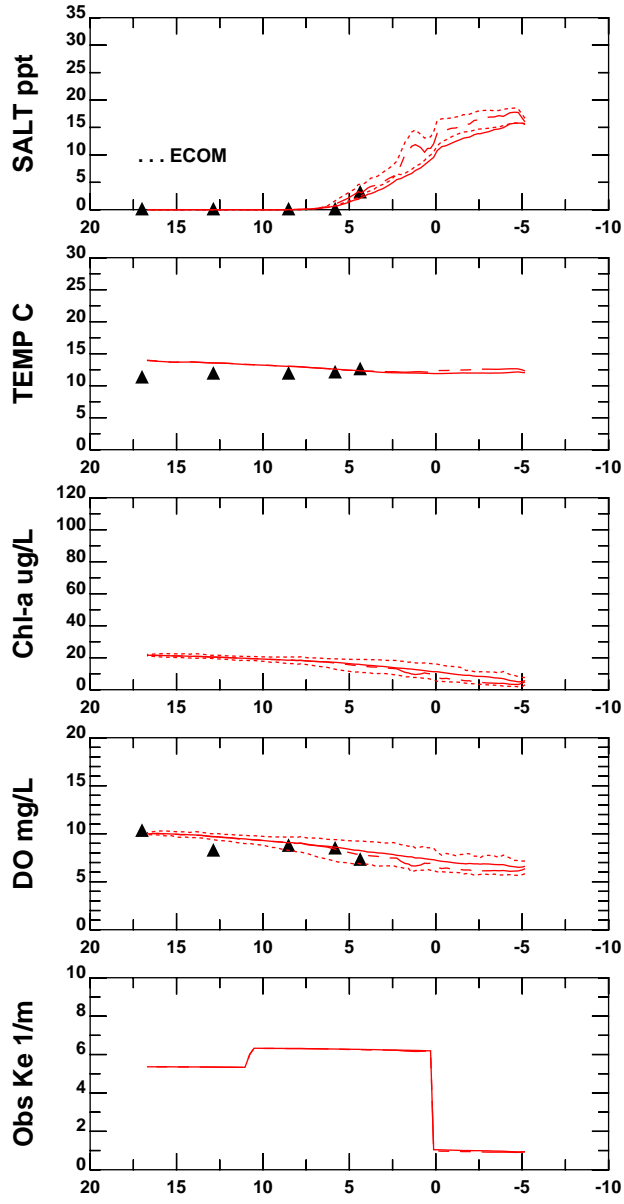
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

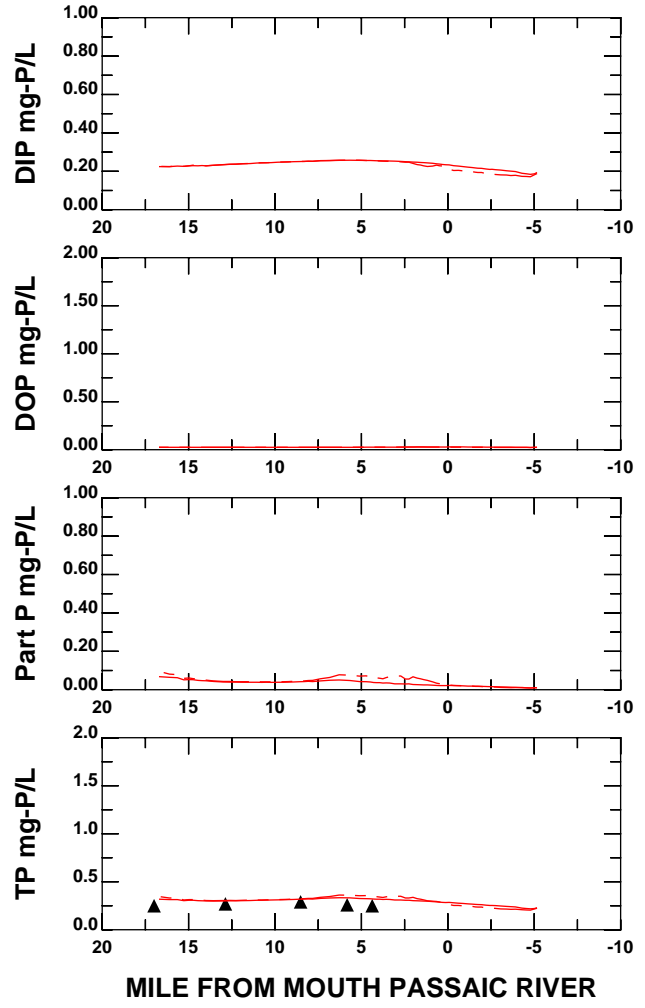
RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0506



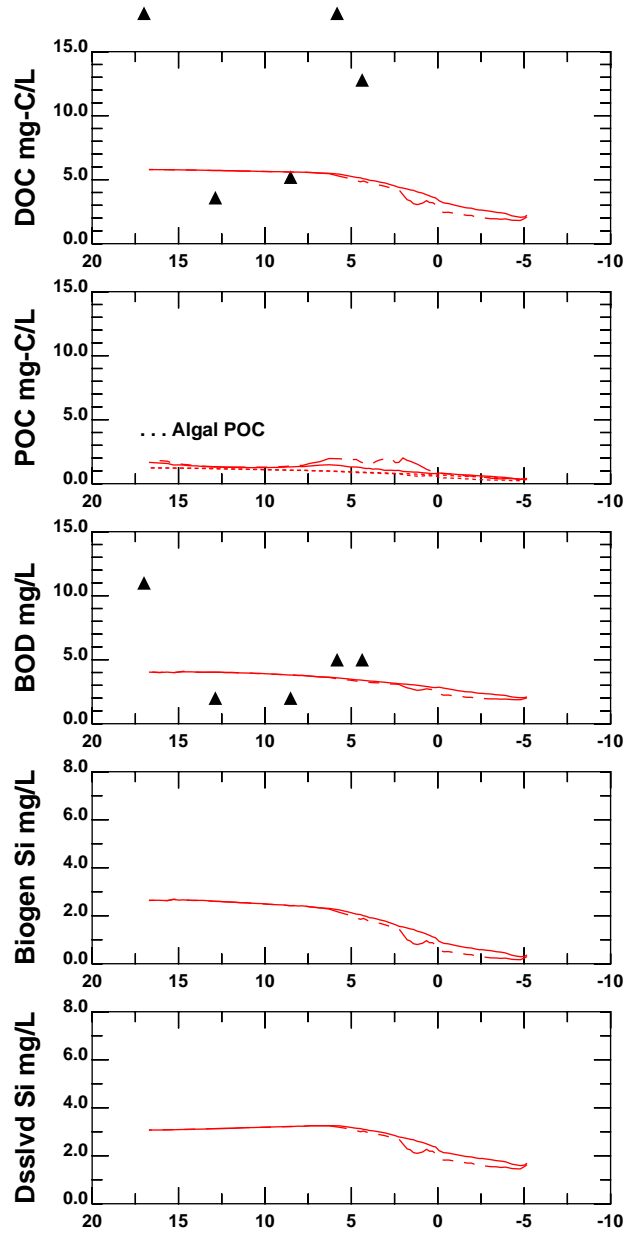
DATA  
NJHDG Nov 09,2005

MODEL

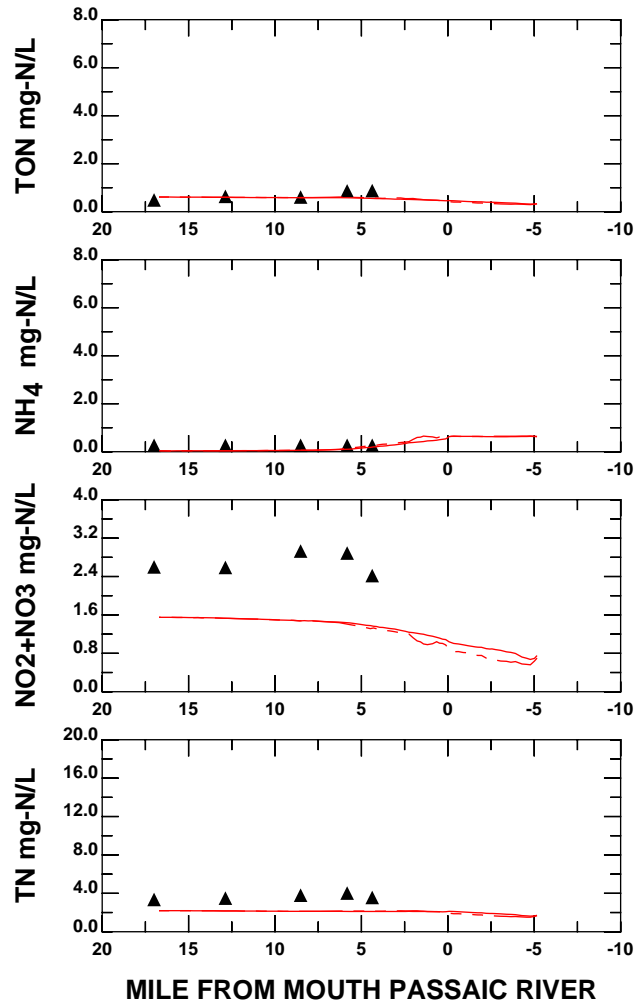
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min





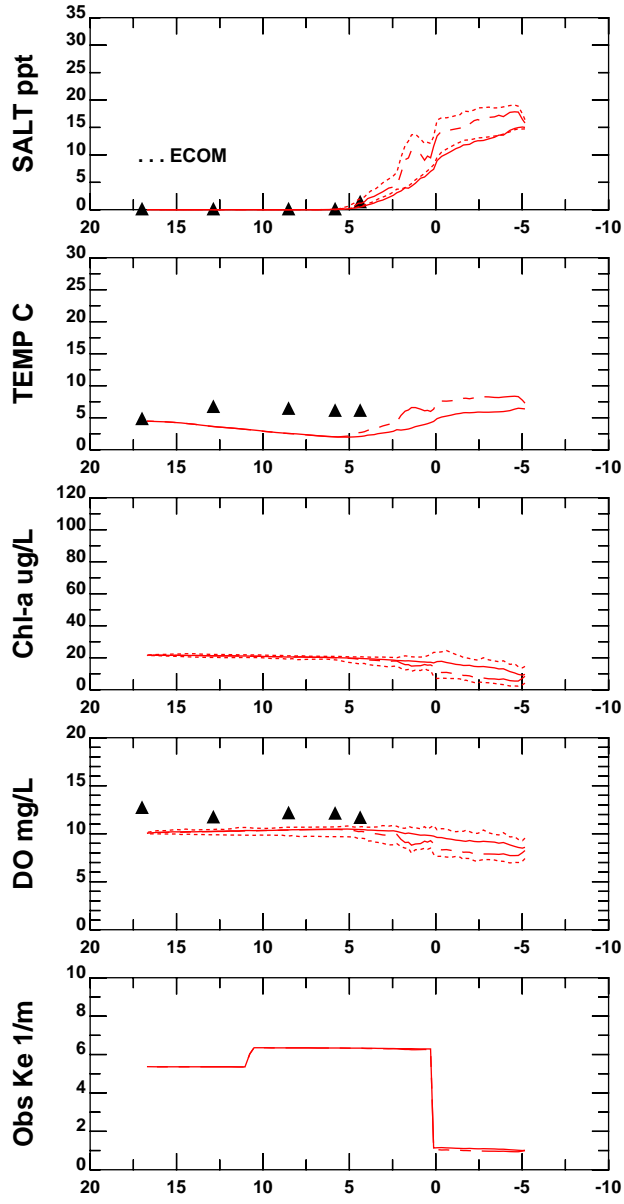
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



DATA  
 NJHDG Nov 09,2005

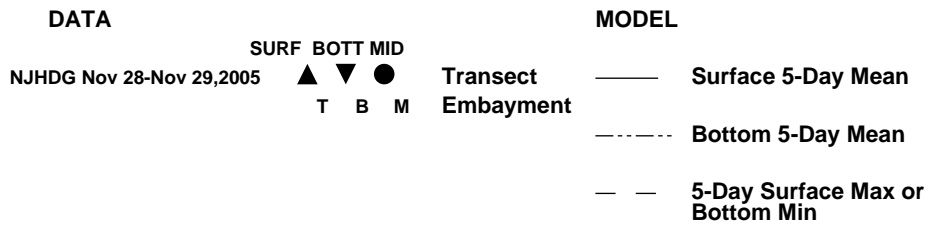
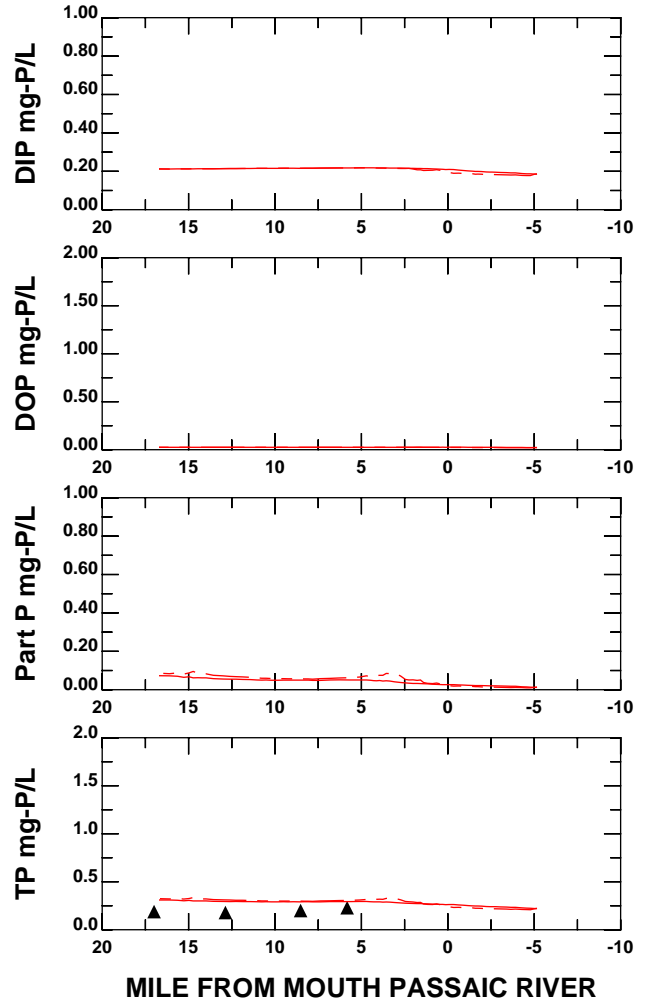
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

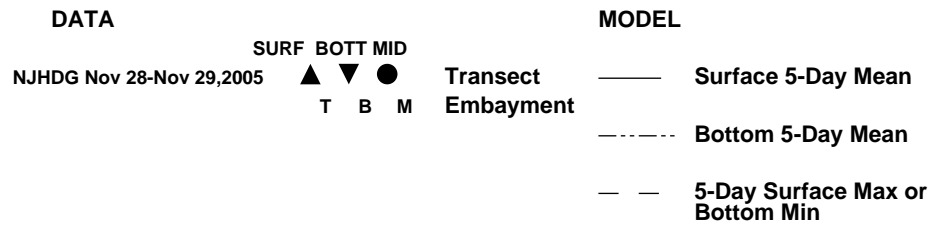
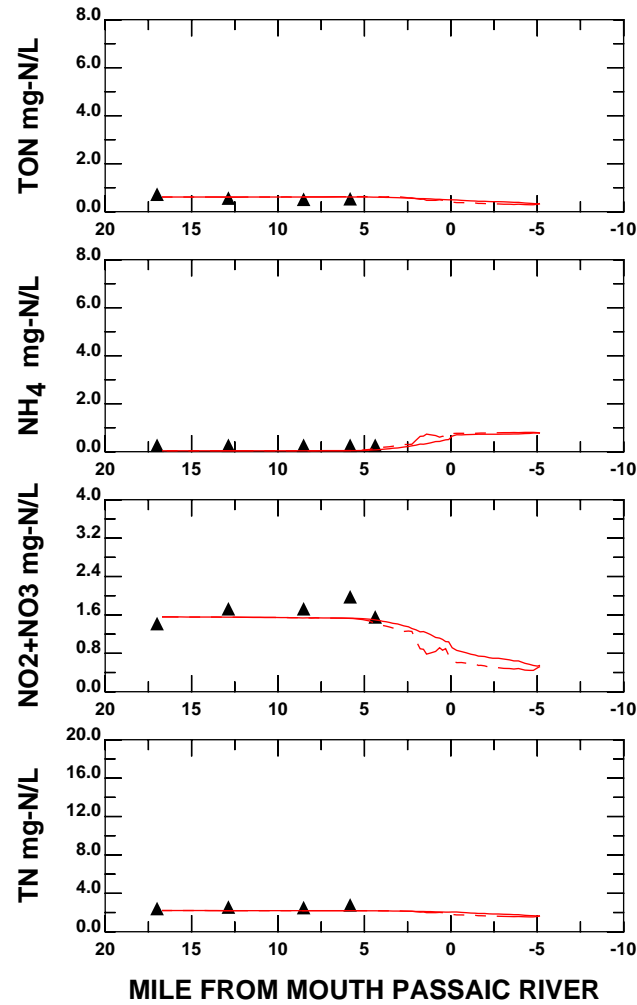
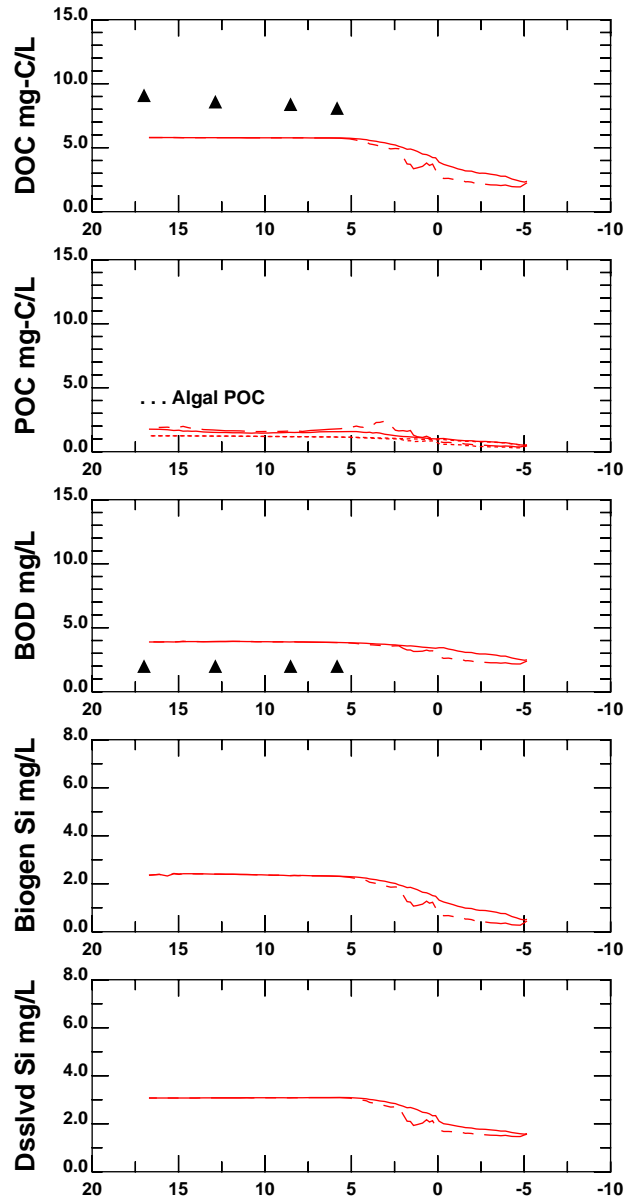
MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



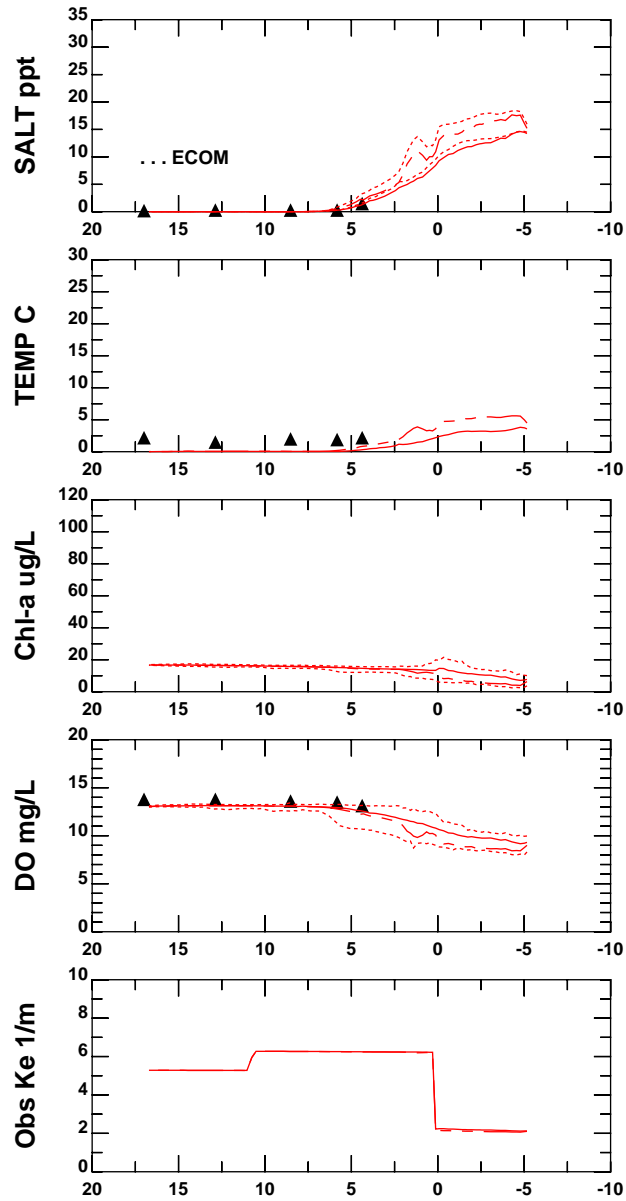
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

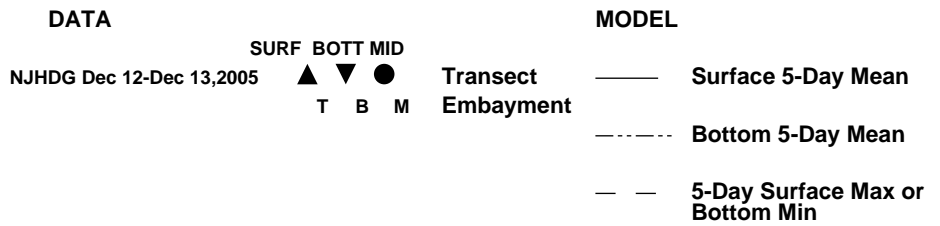
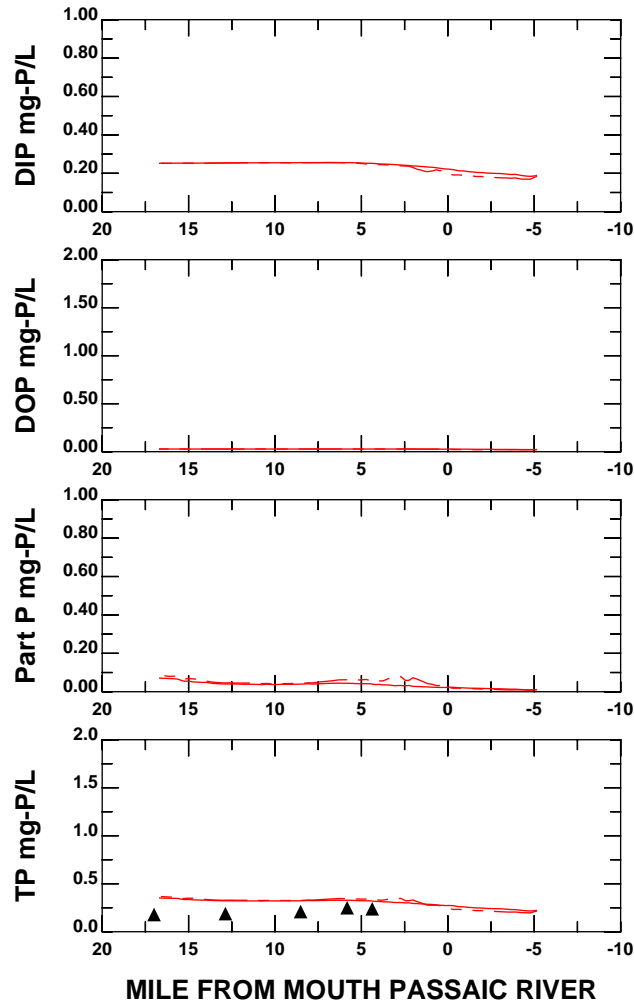


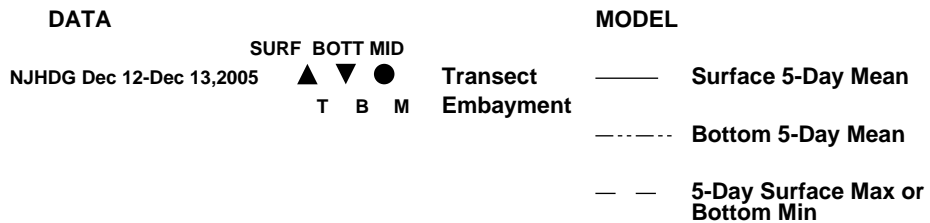
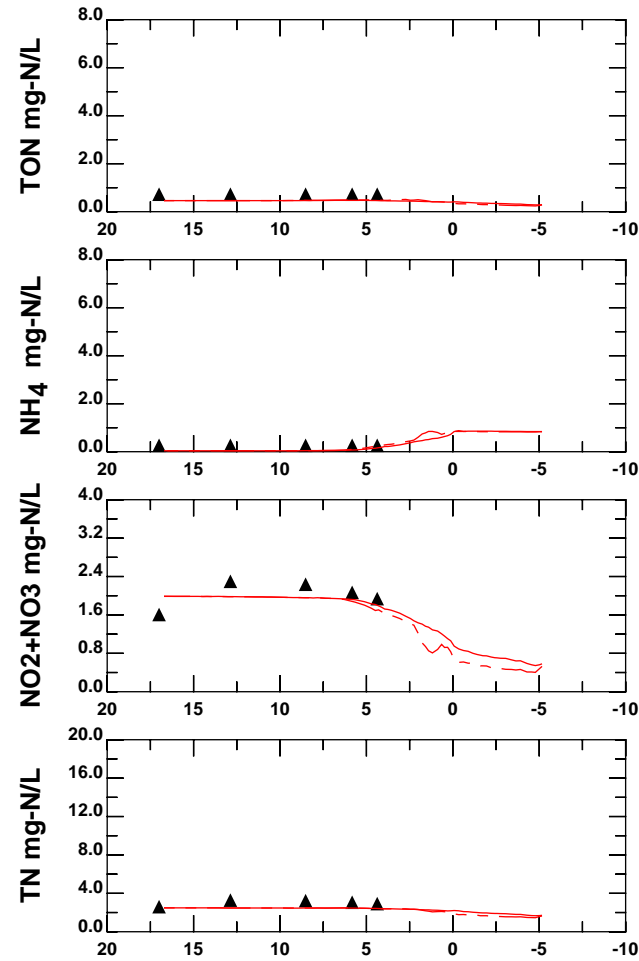
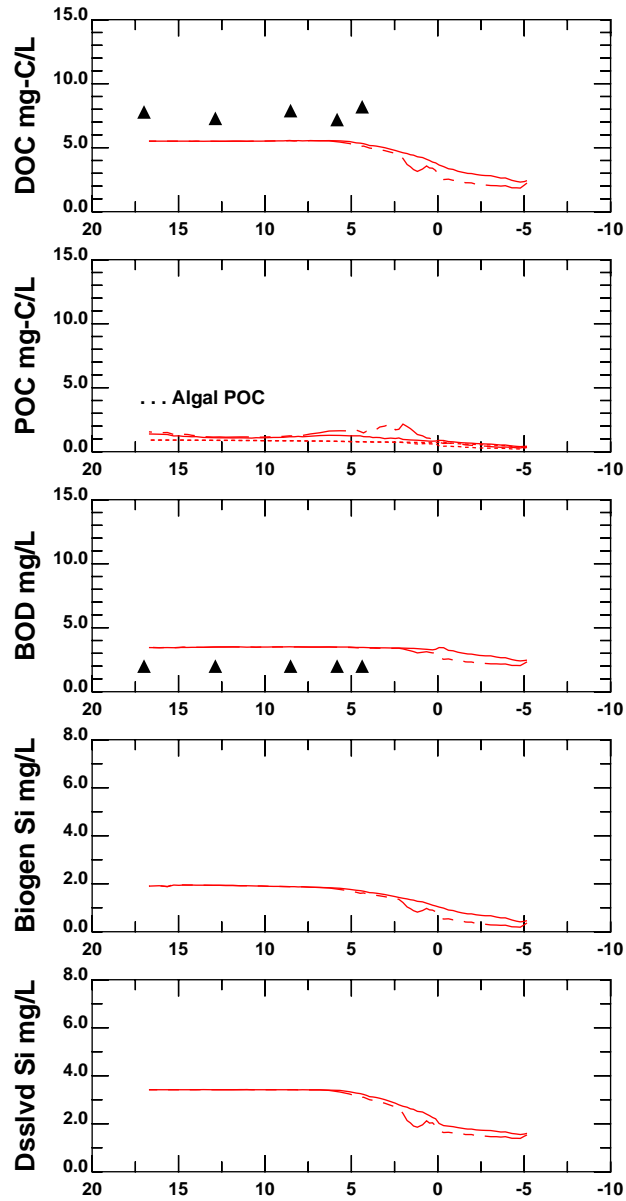


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

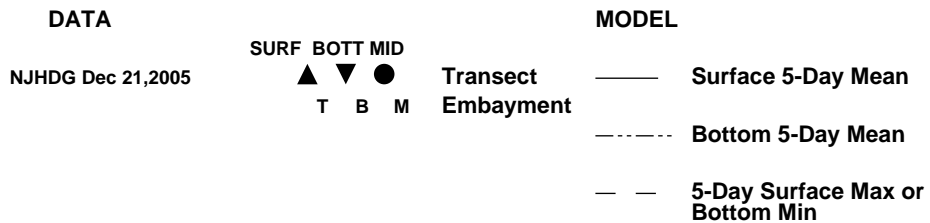
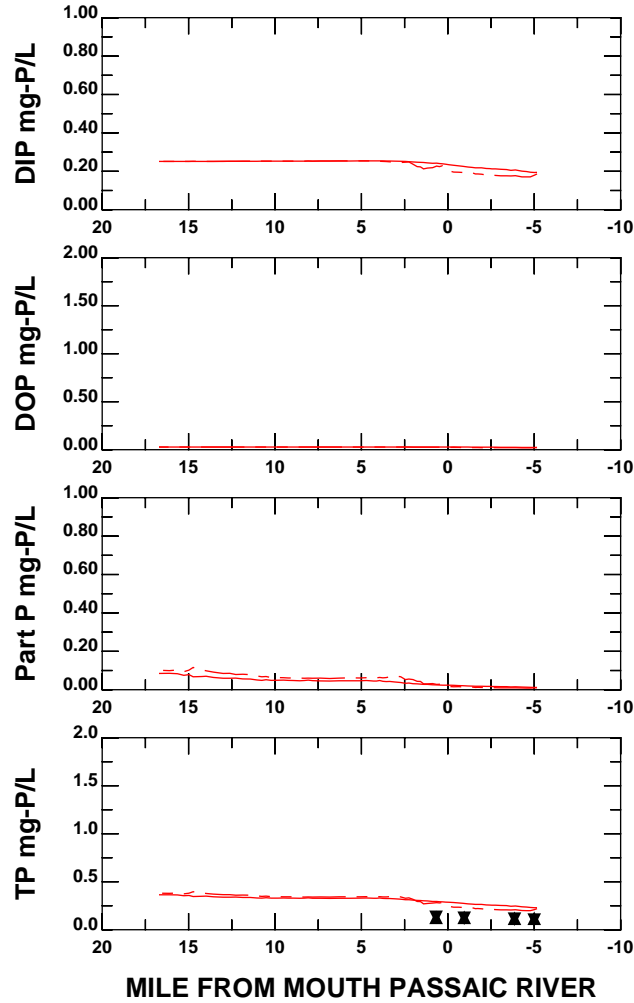
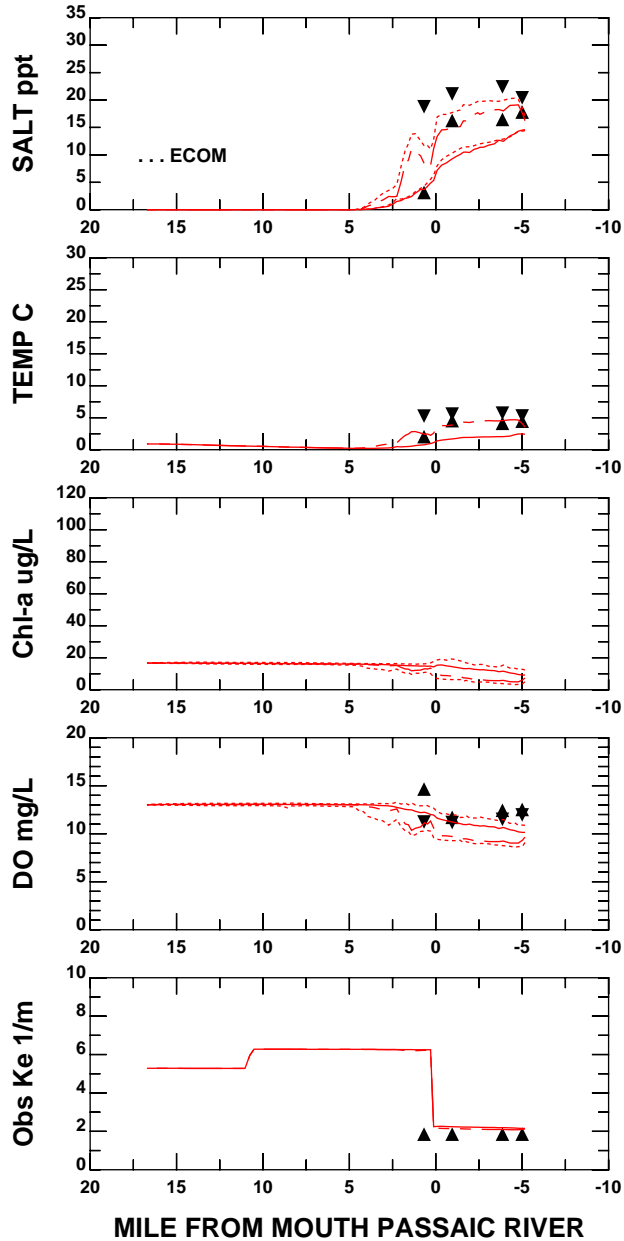


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

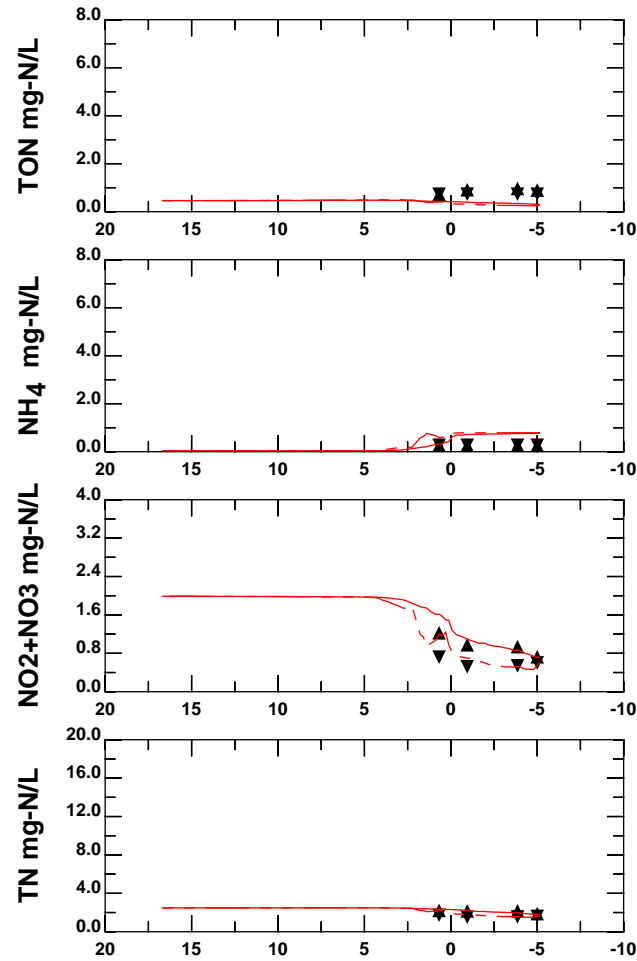
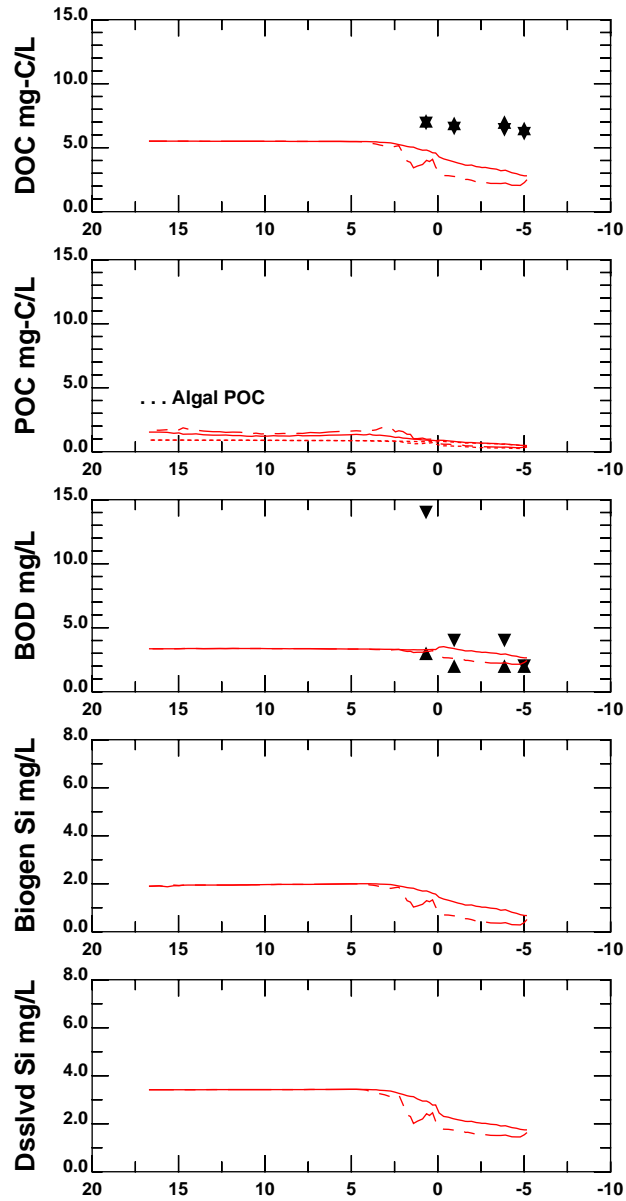




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

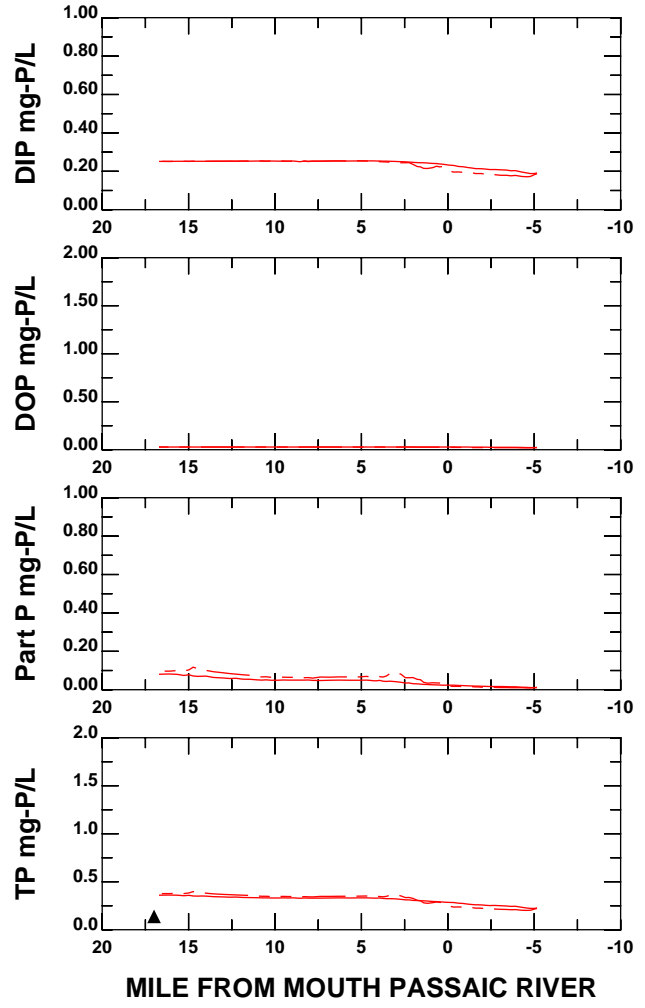
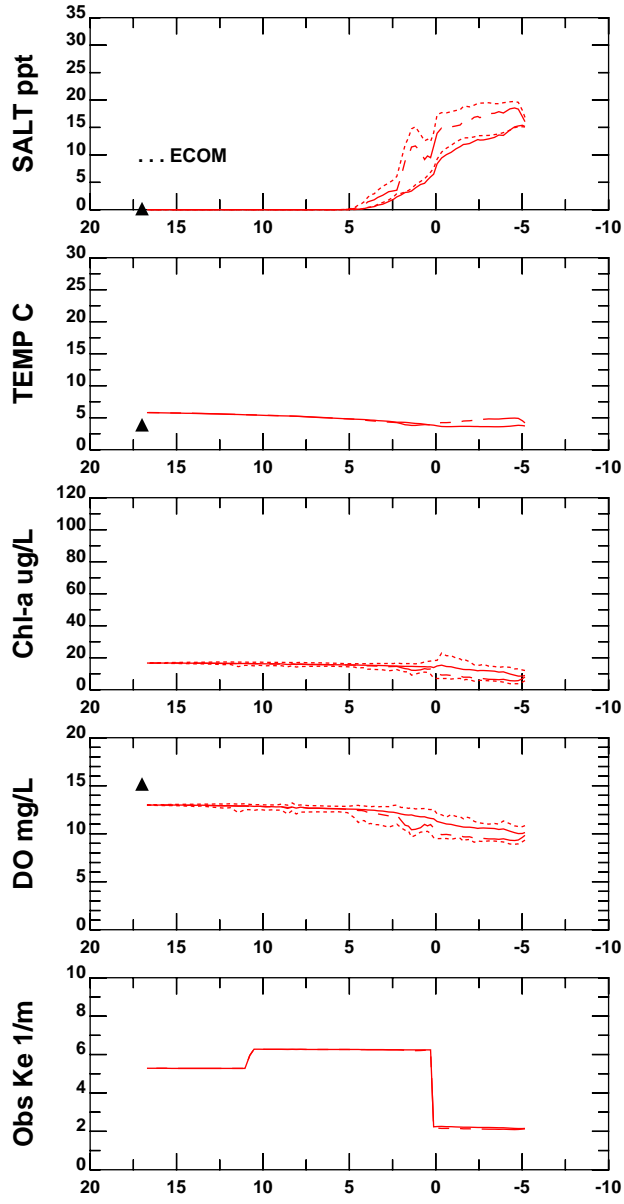


DATA  
NJHGD Dec 21,2005

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



**DATA**  
NJHDG Dec 27,2005

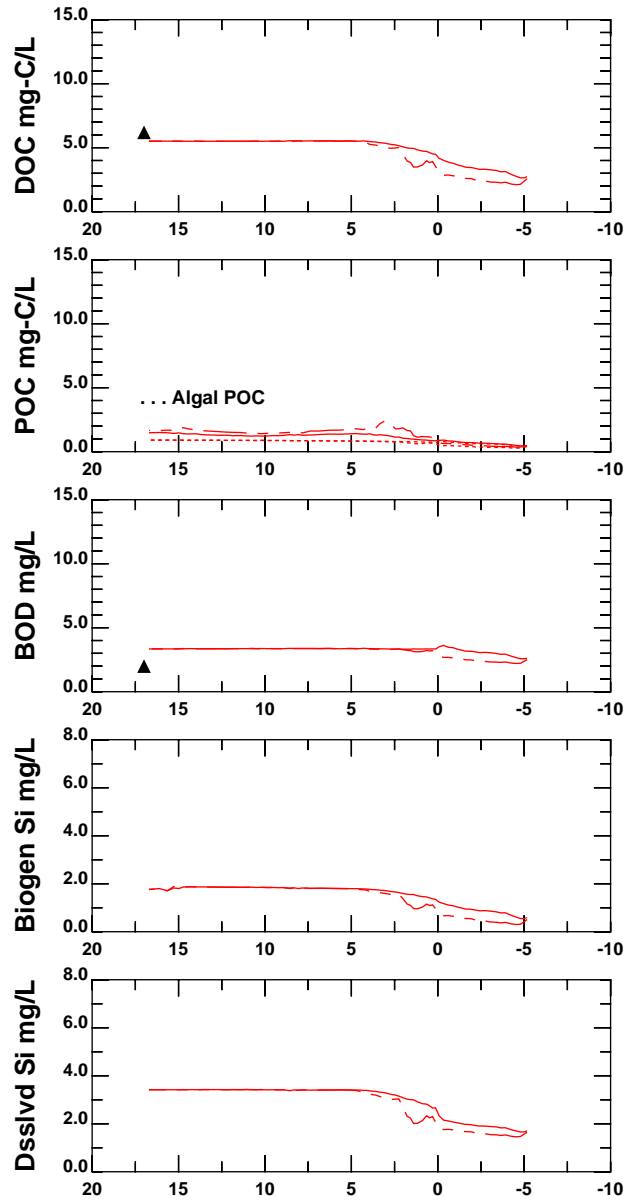
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

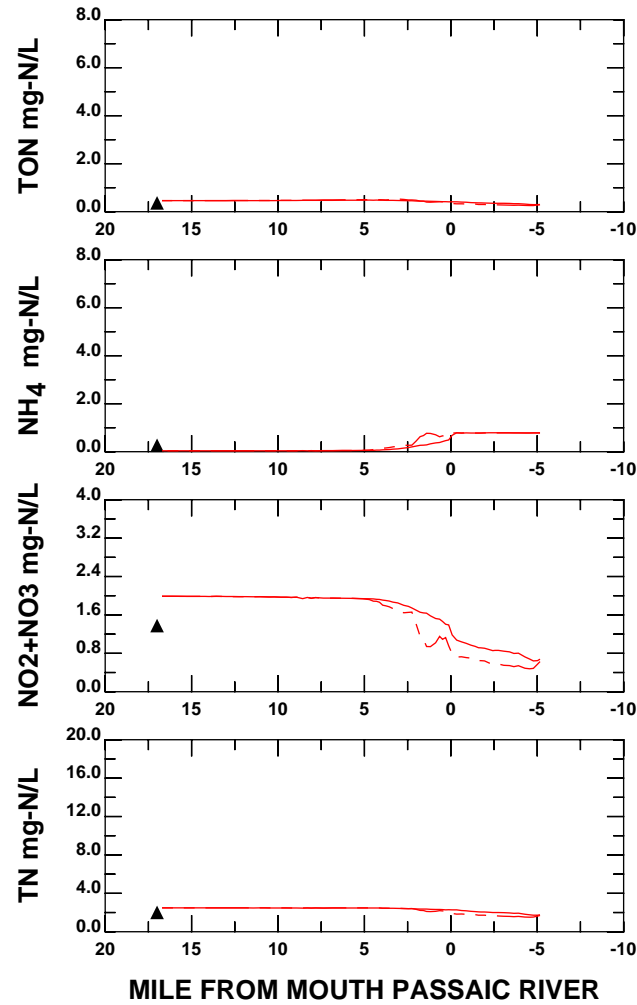




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Dec 27,2005

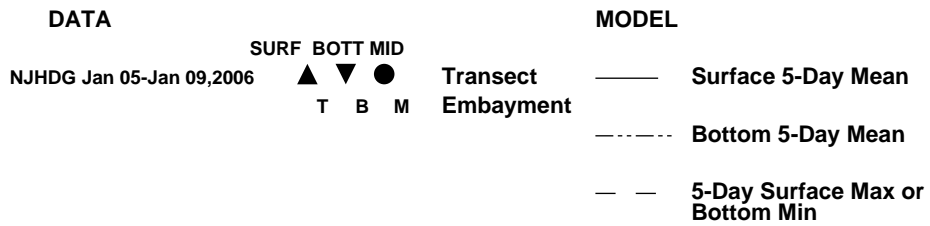
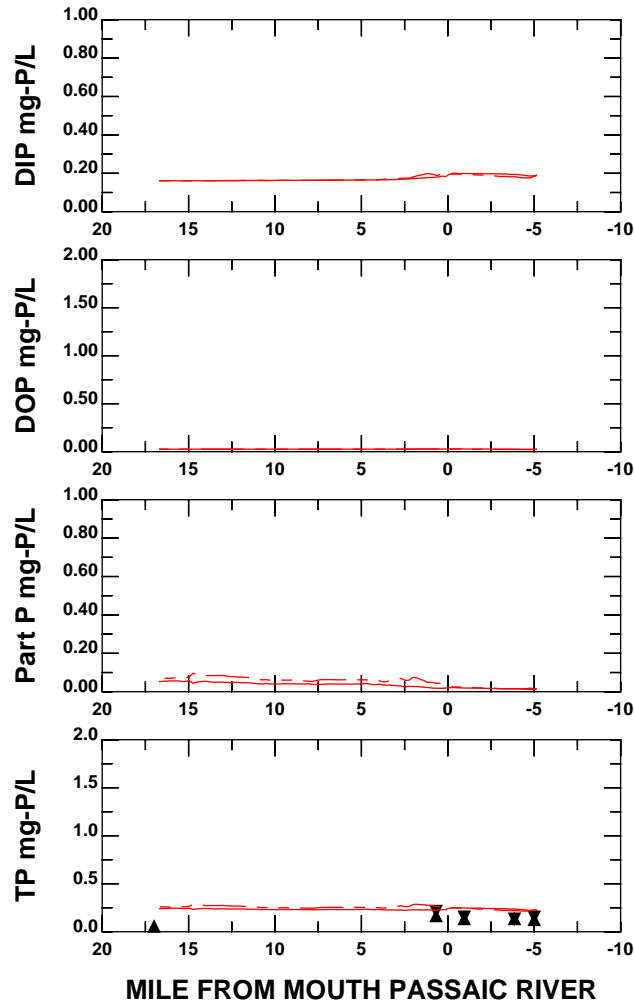
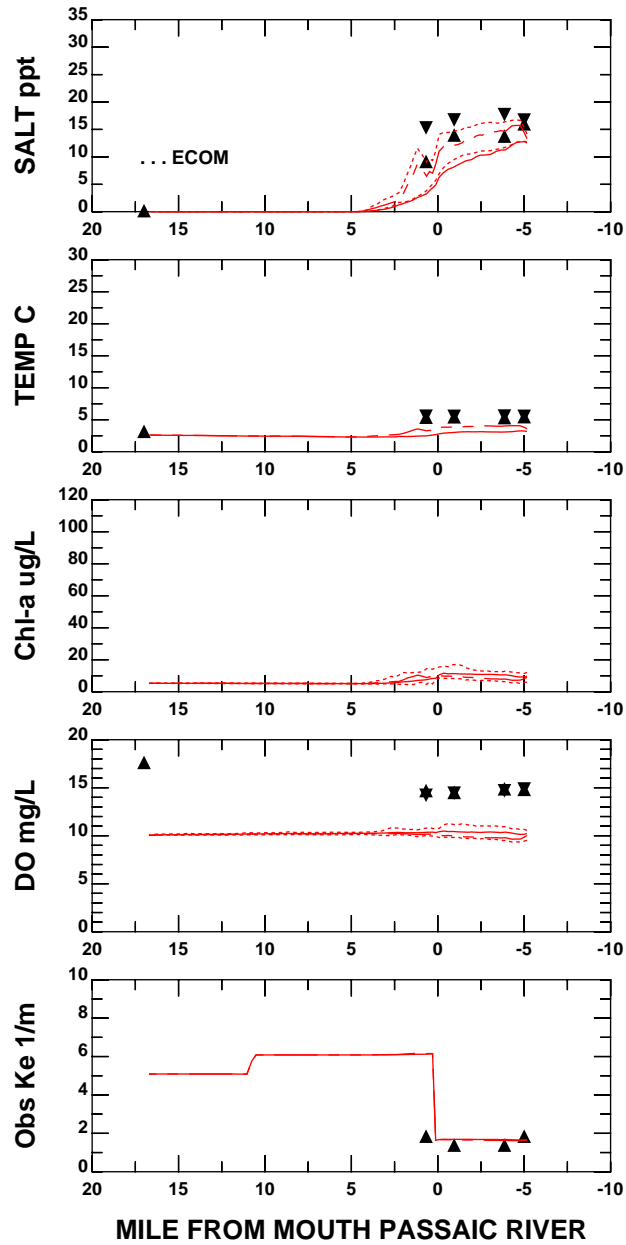
SURF BOTT MID

▲ ▼ ●  
T B M

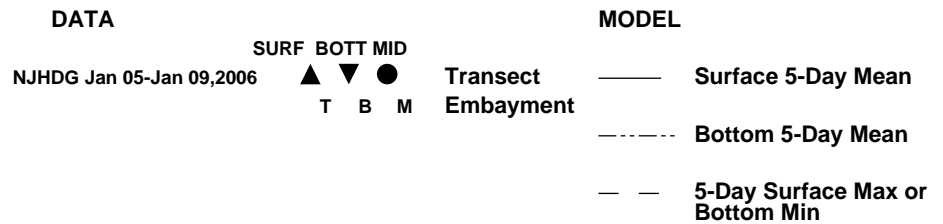
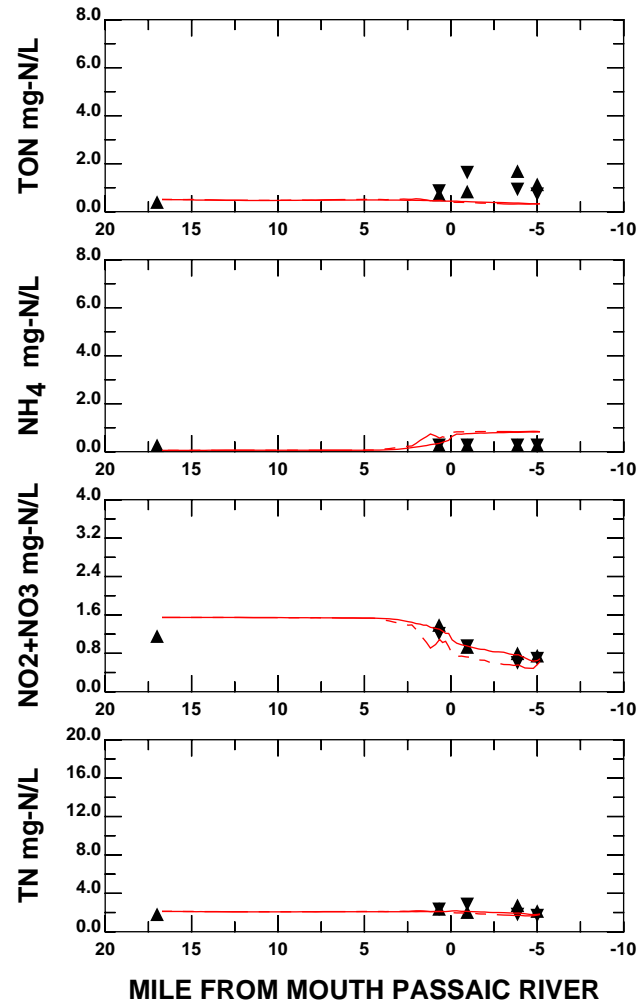
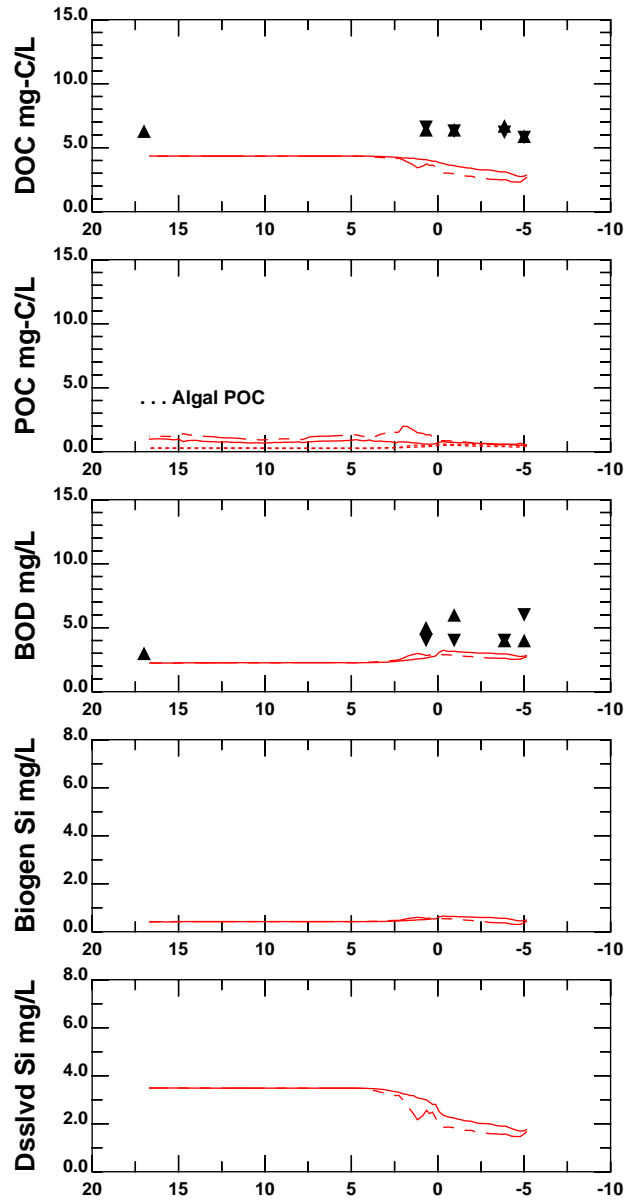
Transect  
Embayment

#### MODEL

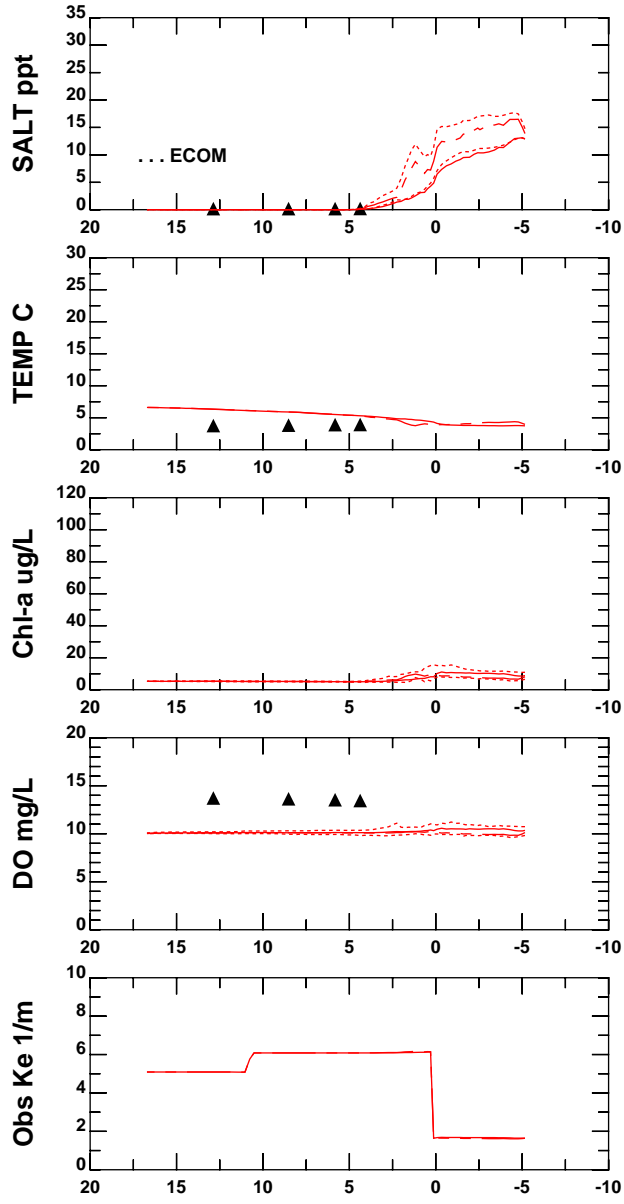
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



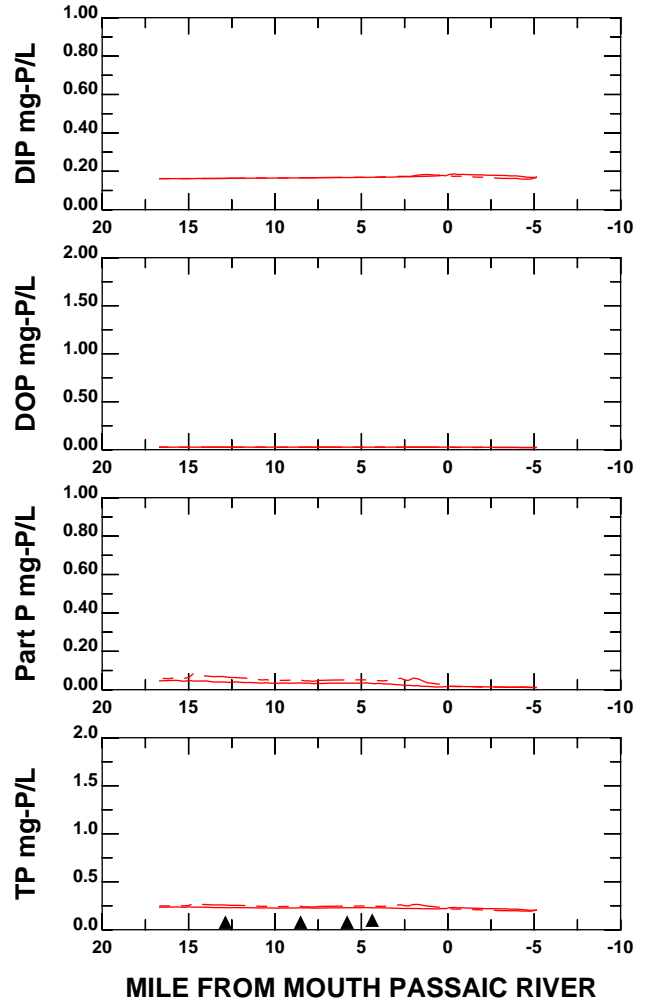
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

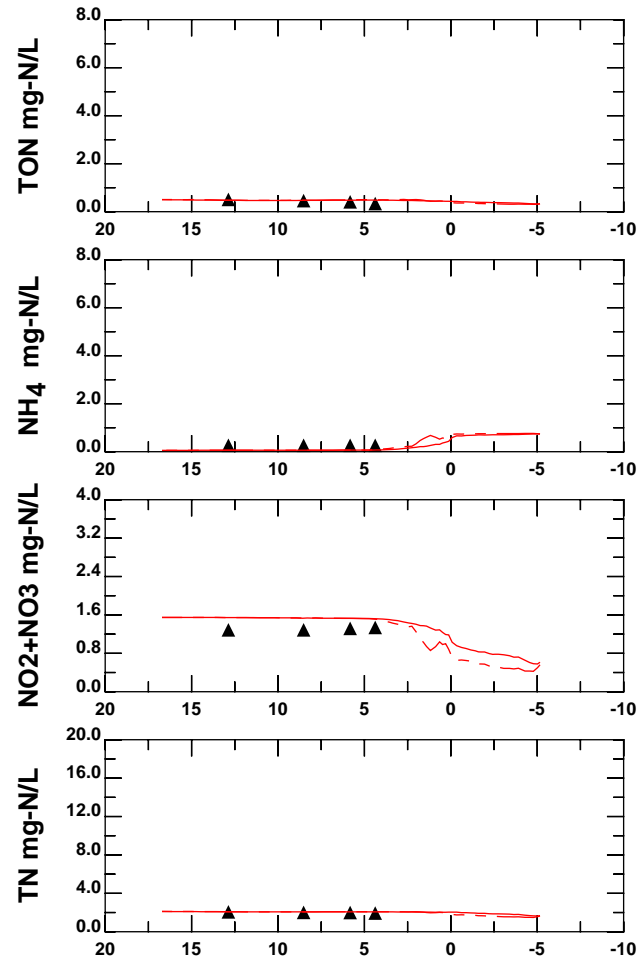
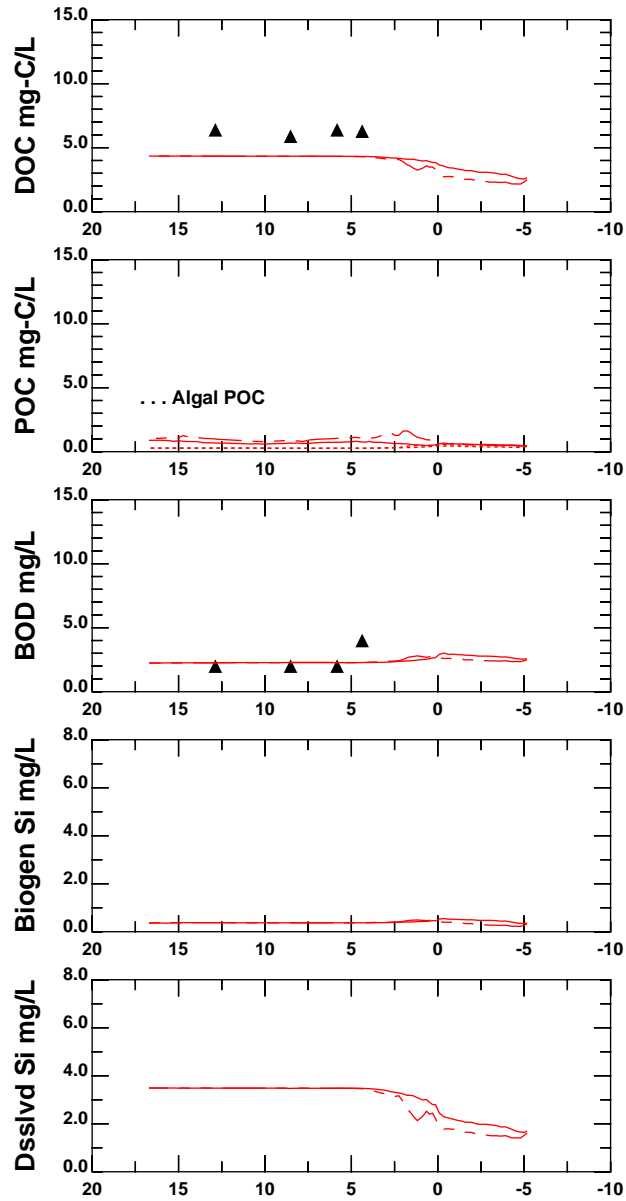


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jan 10,2006

MODEL

SURF	BOTT	MID	Transect	—	Surface 5-Day Mean
▲	▼	●	Embayment	- - -	Bottom 5-Day Mean
T	B	M		— —	5-Day Surface Max or Bottom Min



**DATA**

NJHDG Jan 10, 2006

SURF BOTT MID

▲ ▼ ●  
T B M

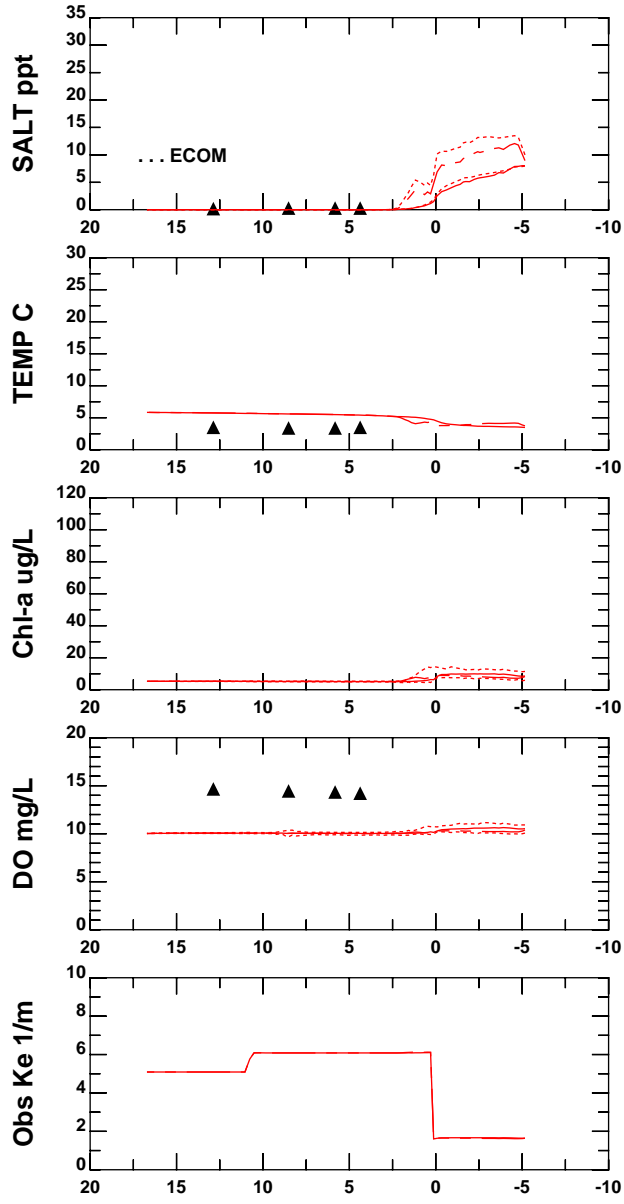
Transect  
Embayment

**MODEL**

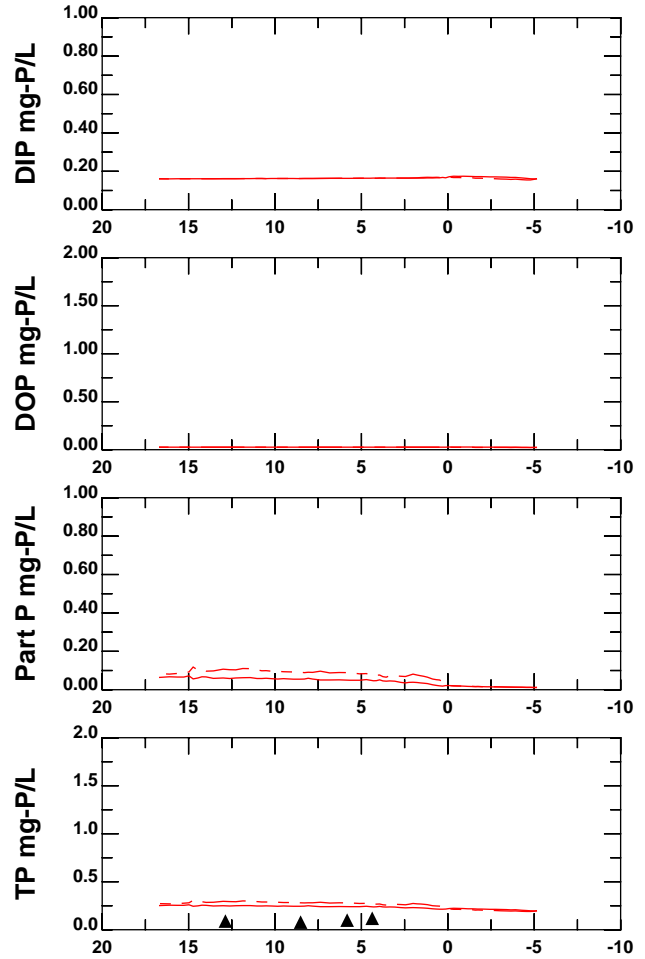
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

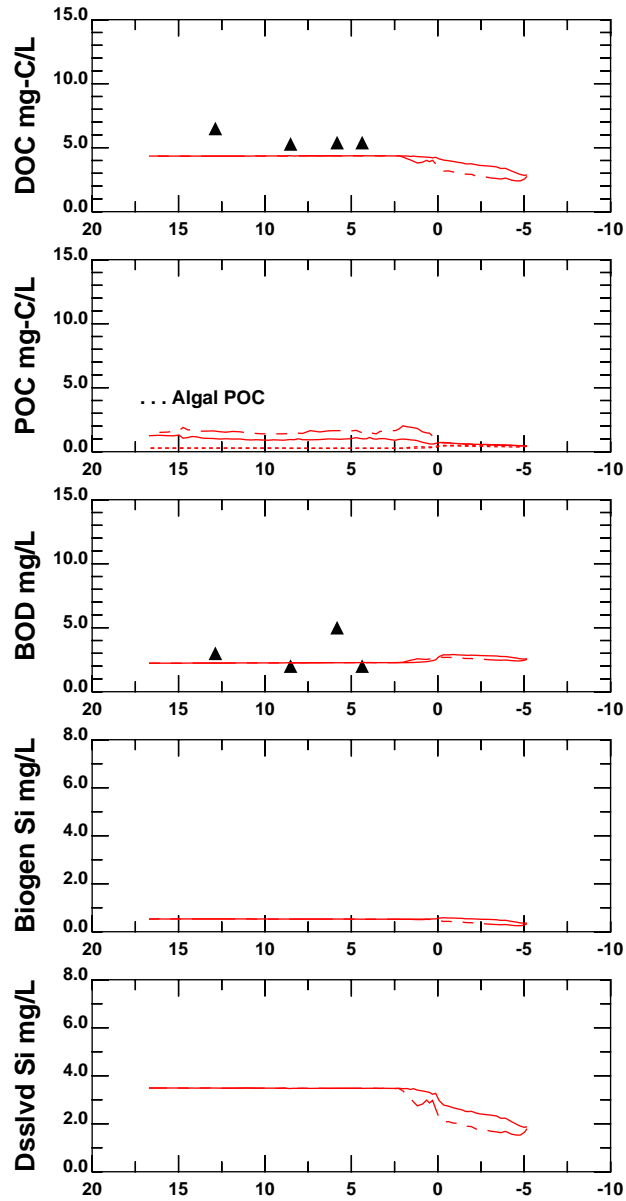
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

DATA  
 NJHDG Jan 24,2006

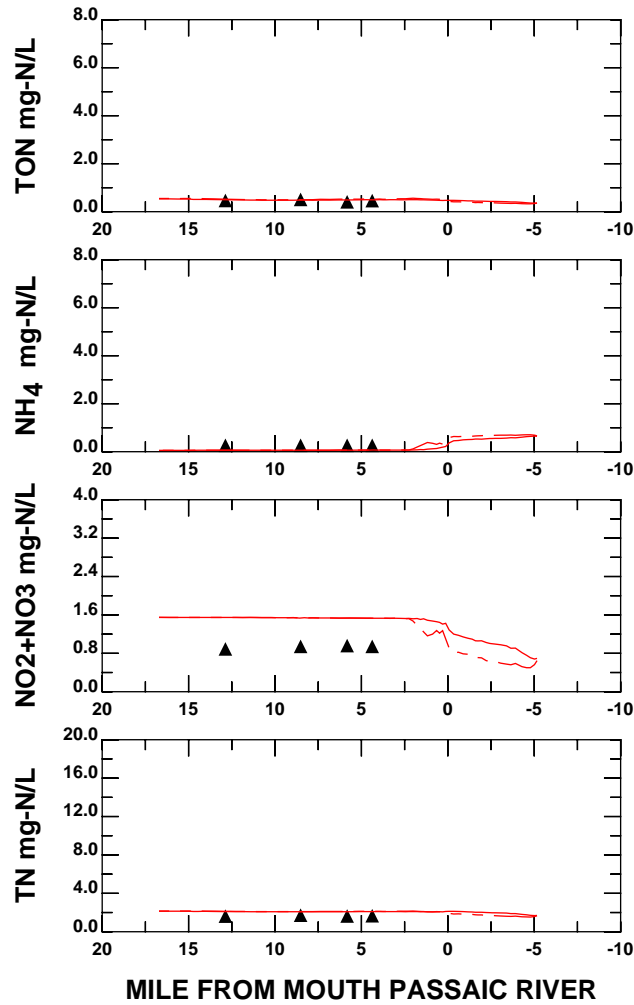
MODEL	
—	Surface 5-Day Mean
- - - -	Bottom 5-Day Mean
- . - .	5-Day Surface Max or Bottom Min

DATA		MODEL	
▲	SURF	▼	BOTT
●	MID		
▲	T	▼	B
●	M		
	Transect		Embayment



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

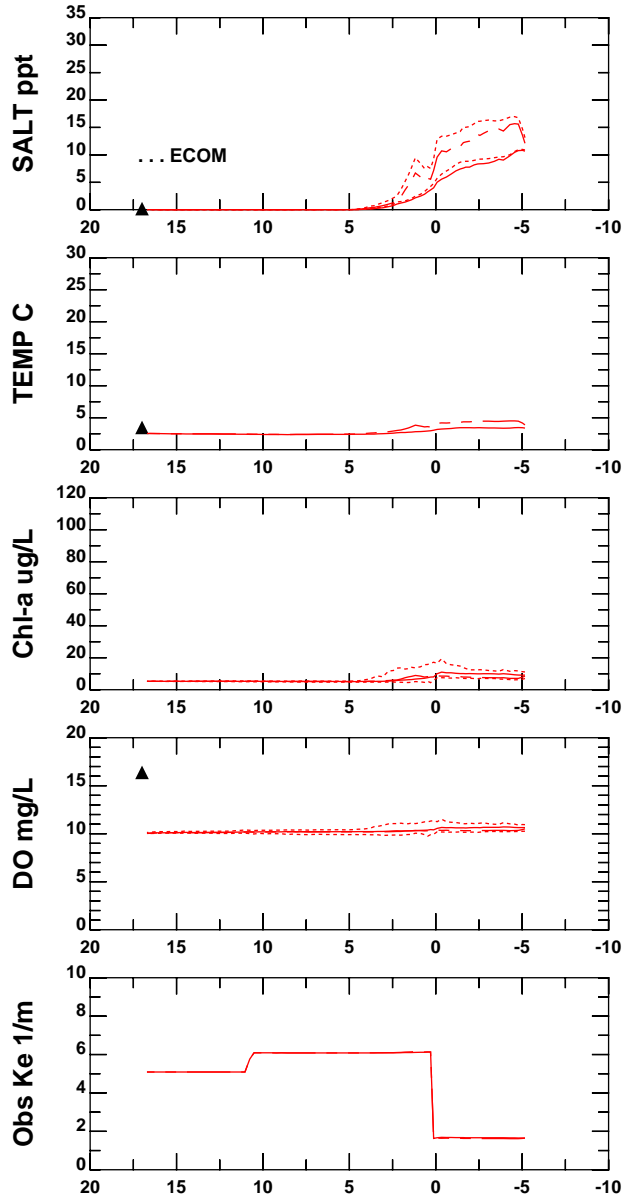


DATA  
 NJHDG Jan 24,2006

MODEL

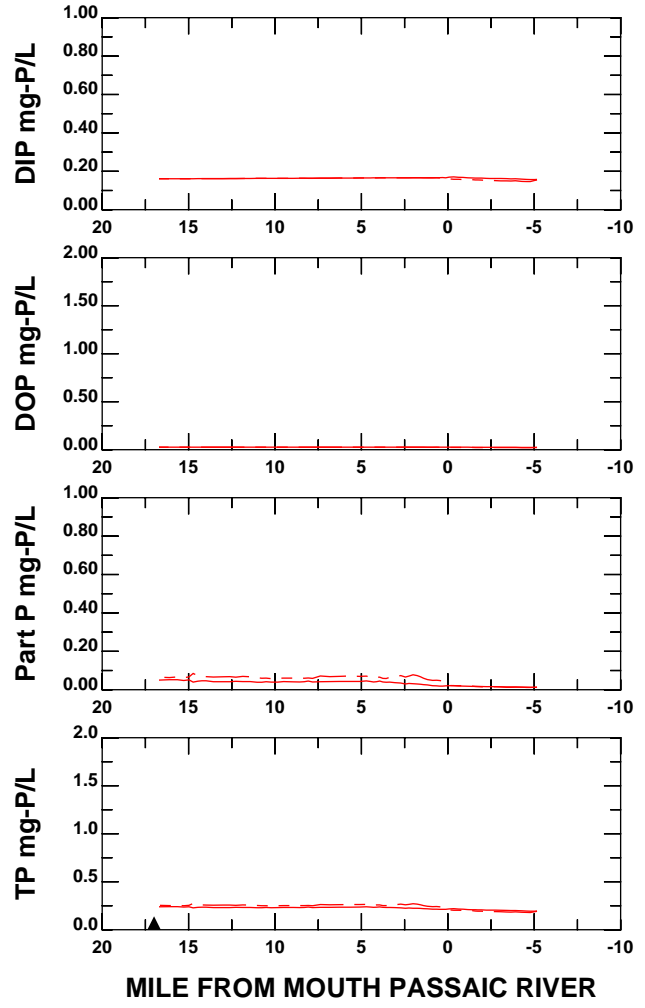
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Jan 25,2006

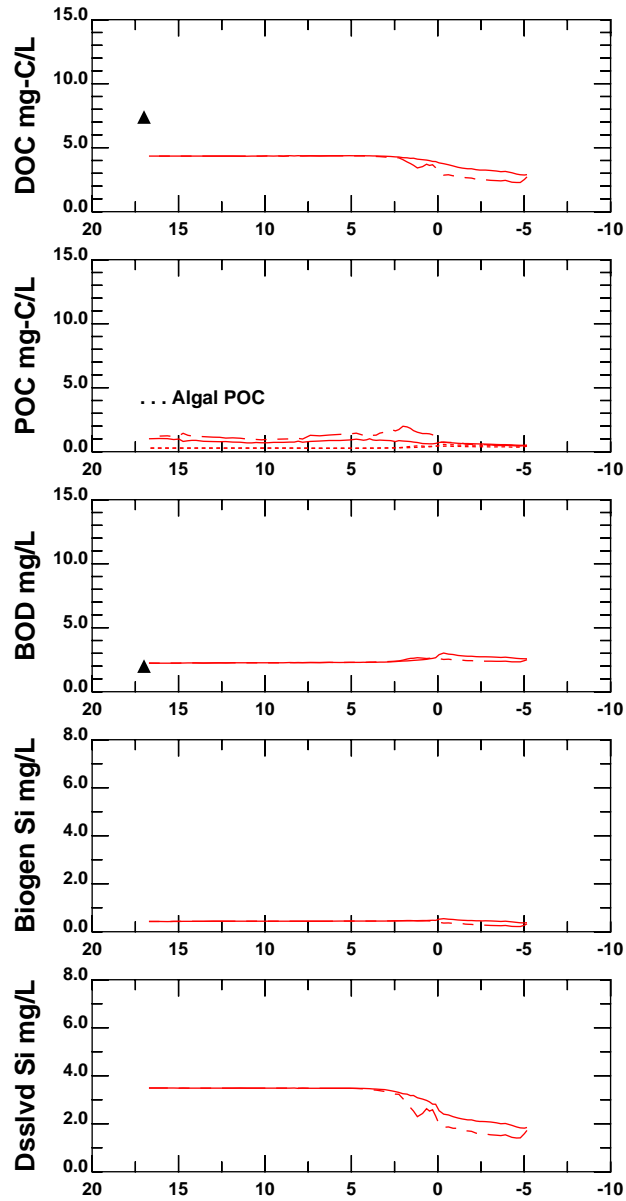
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

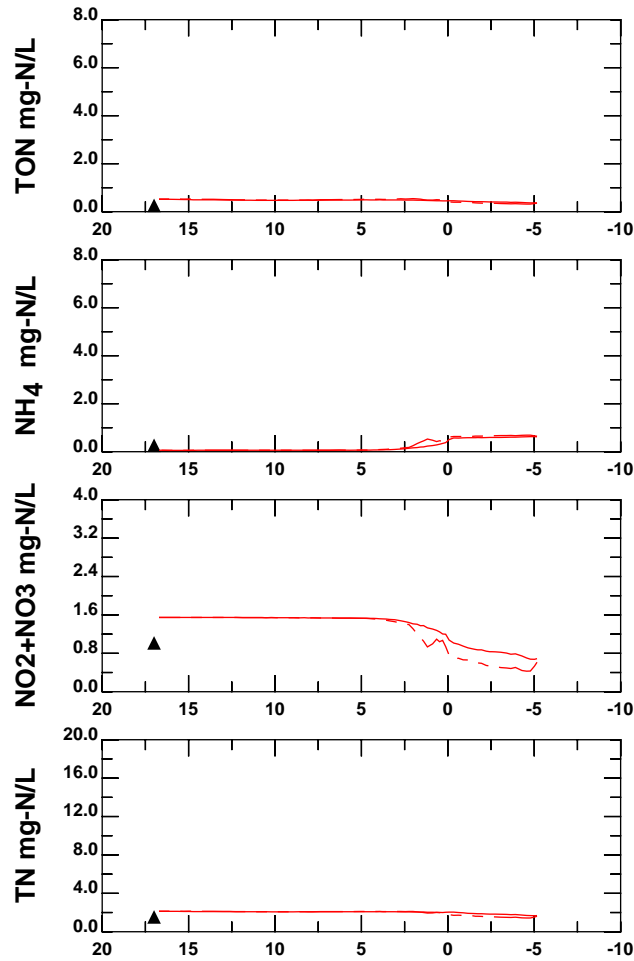
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Jan 25,2006

SURF BOTT MID

▲ ▼ ●  
T B M

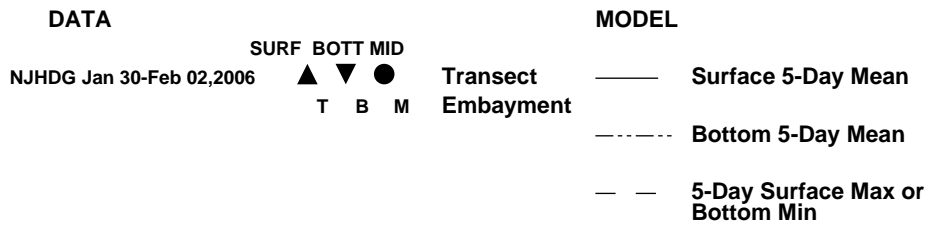
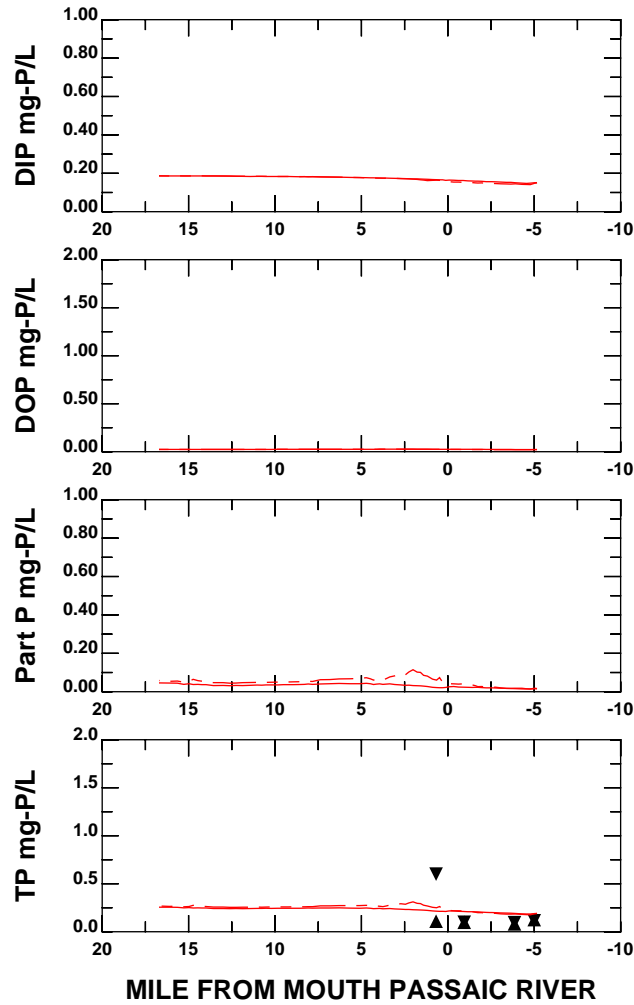
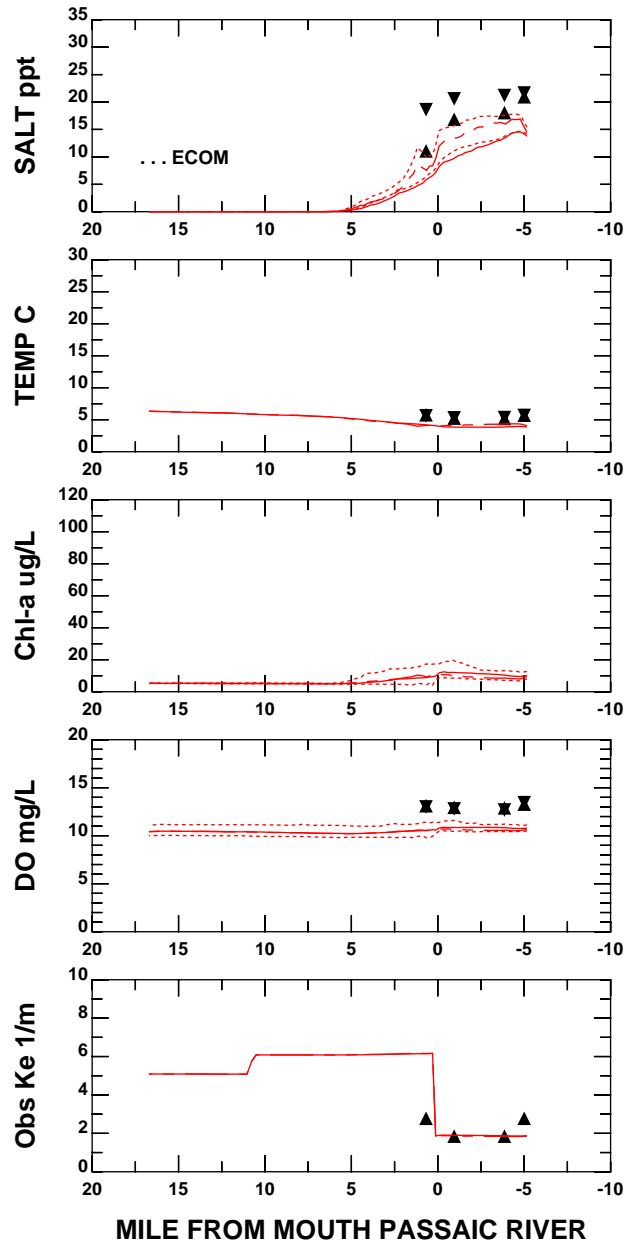
Transect  
Embayment

MODEL

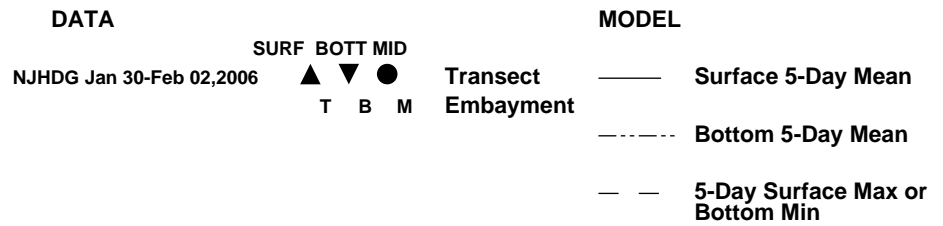
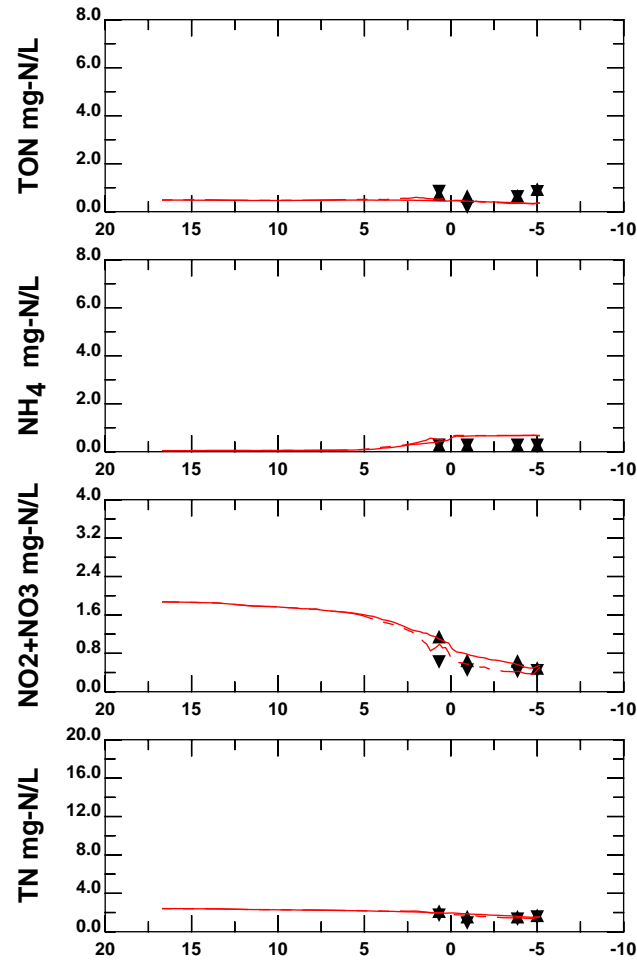
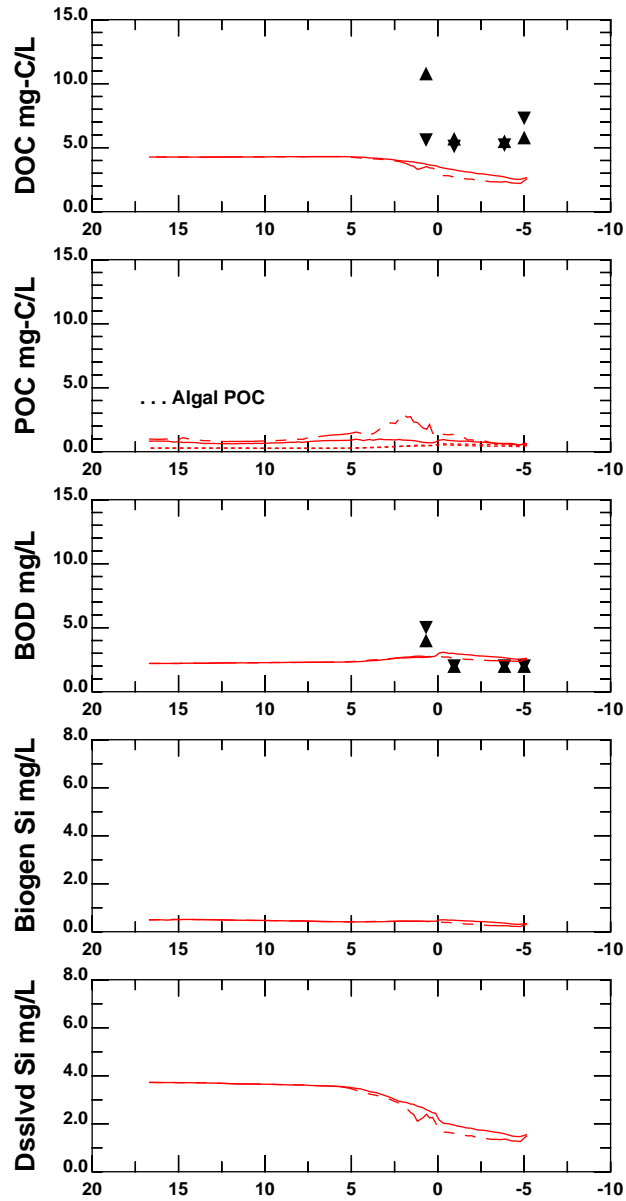
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

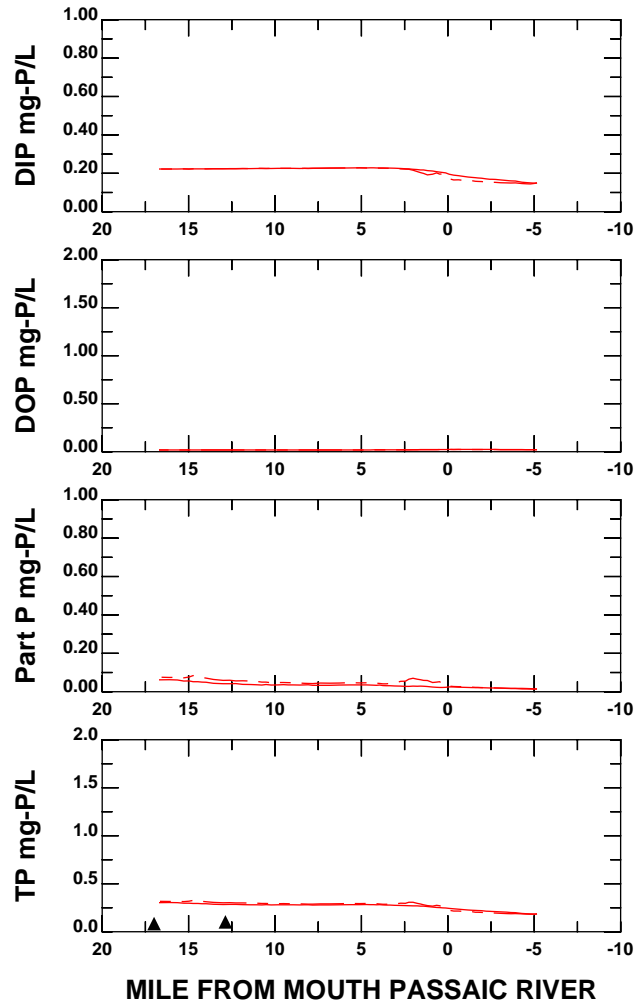
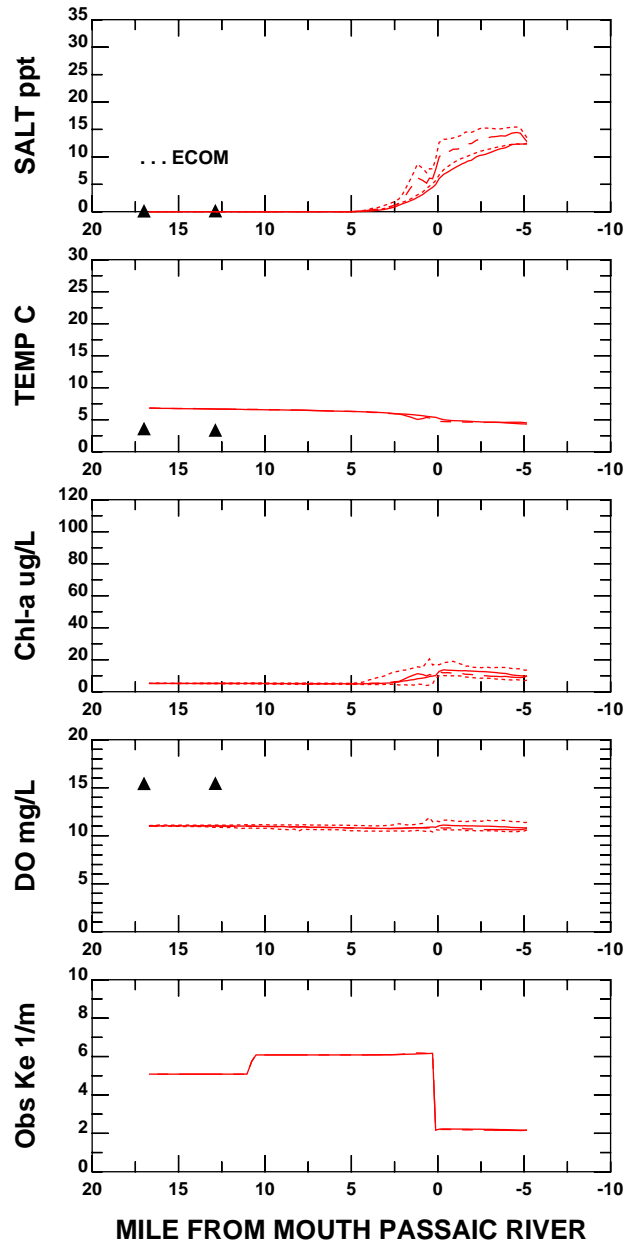
RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



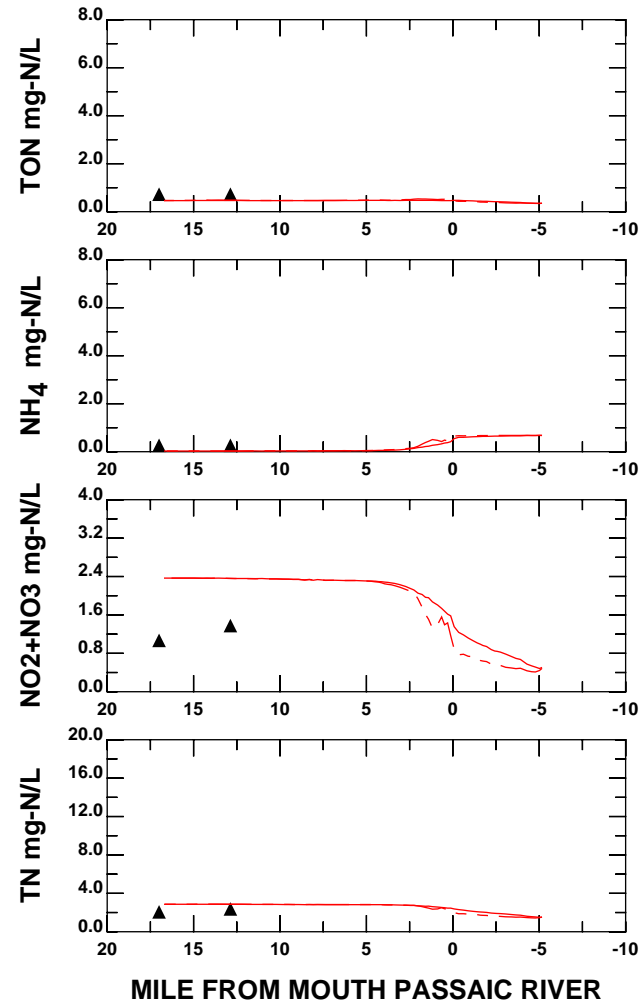
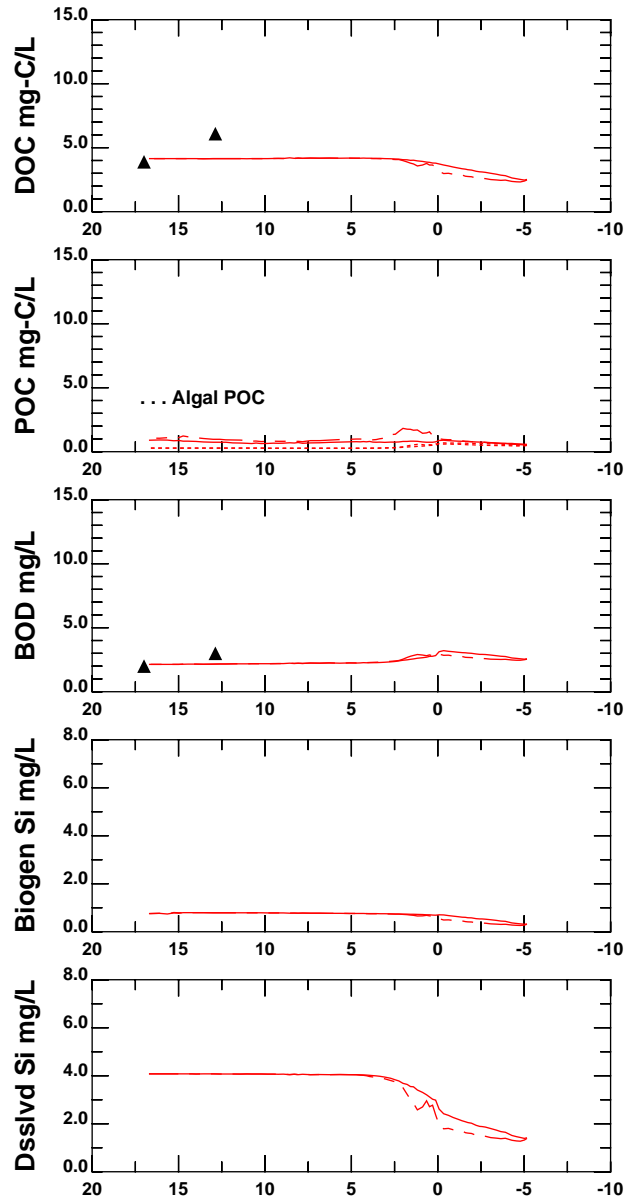
**DATA**  
NJHDG Feb 08, 2006

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

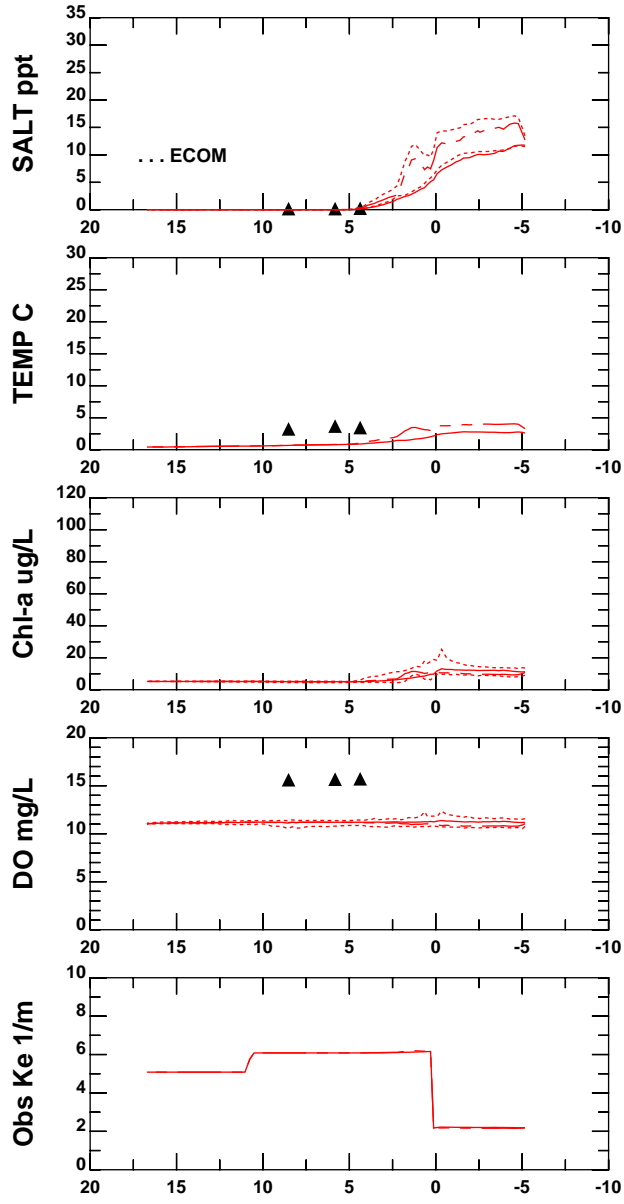


DATA  
NJHDG Feb 08, 2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

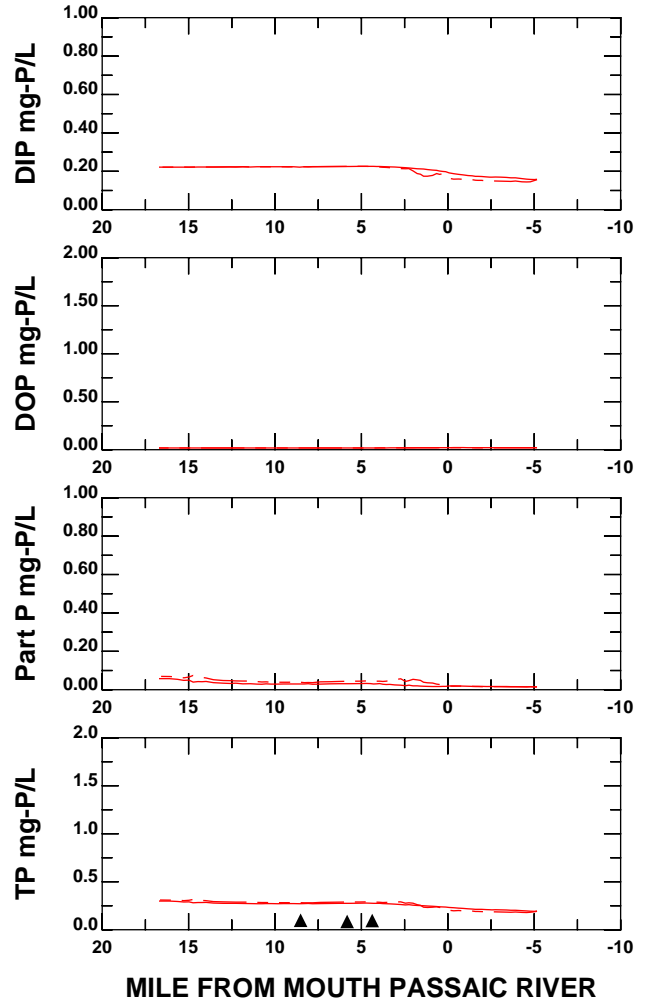
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



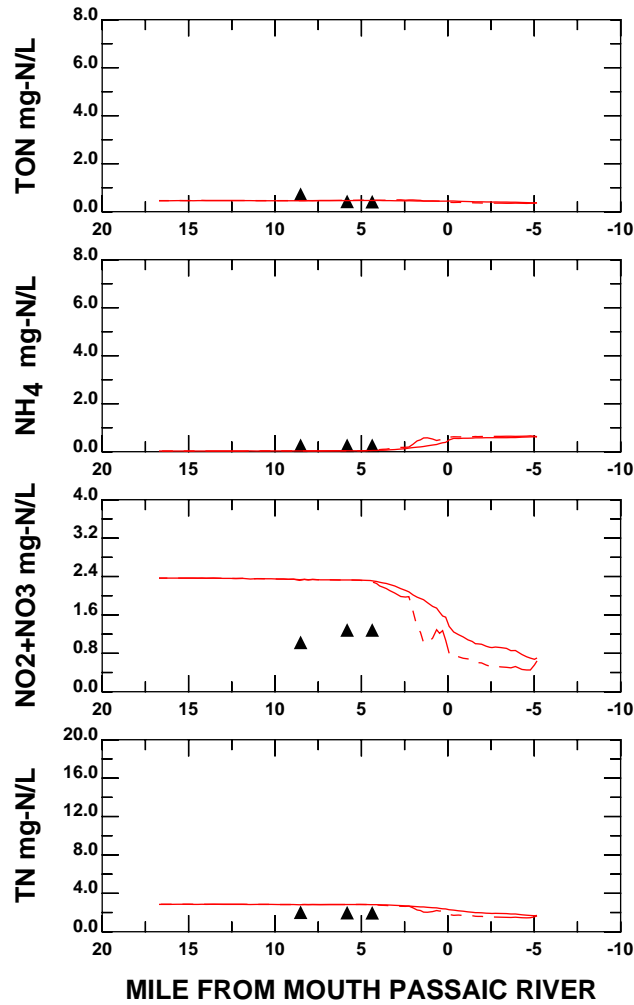
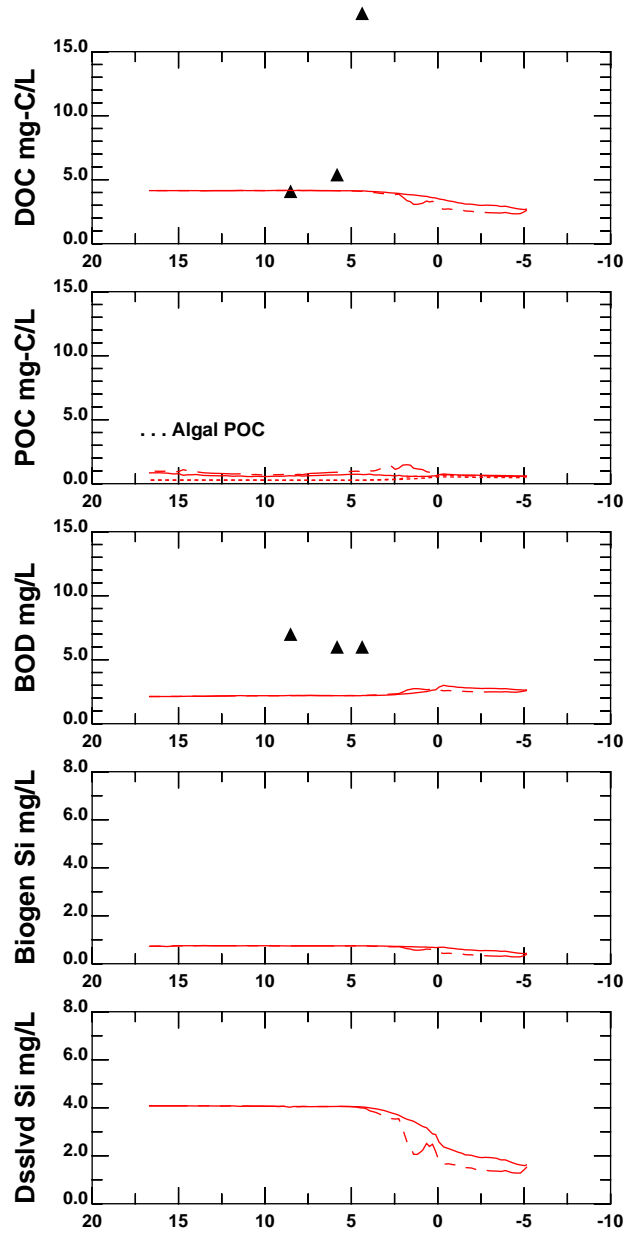
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Feb 09,2006

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

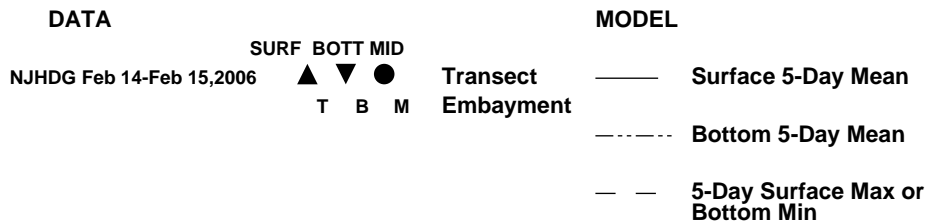
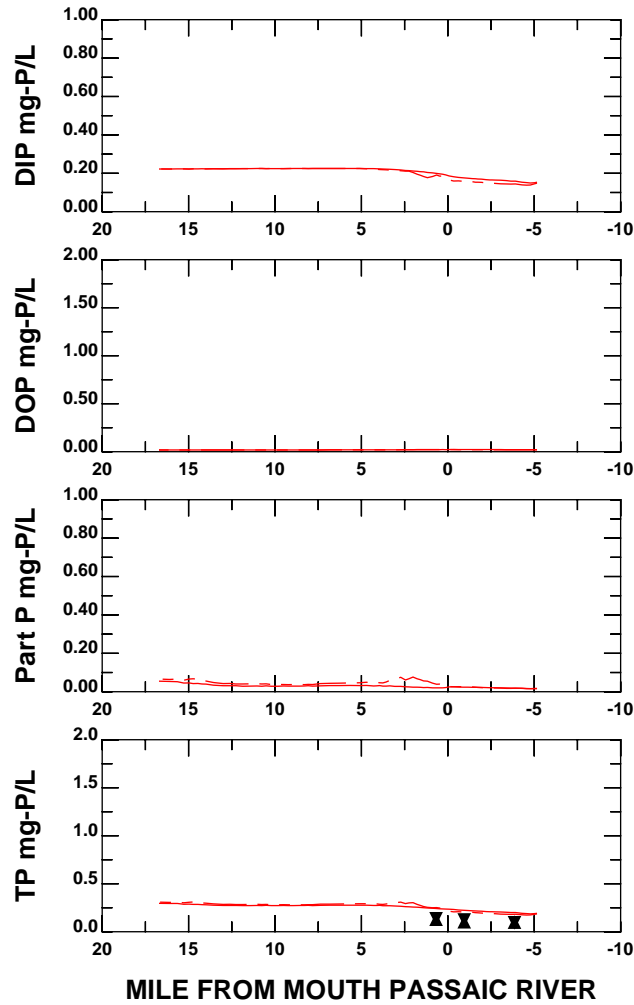
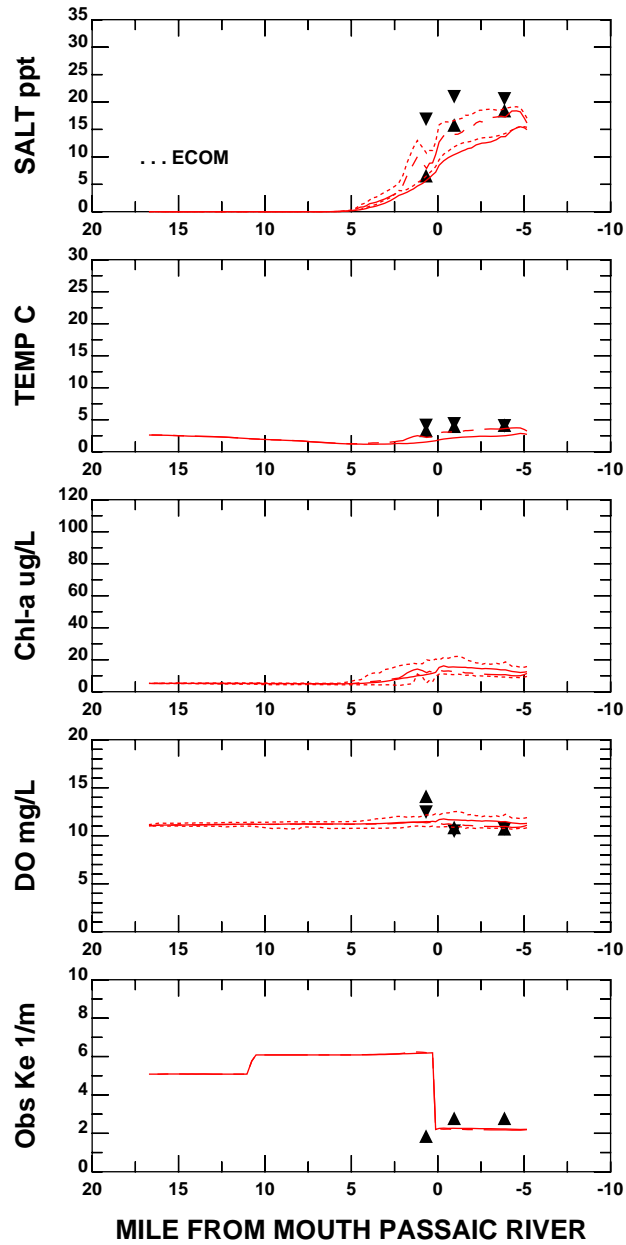


DATA  
NJHDG Feb 09, 2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

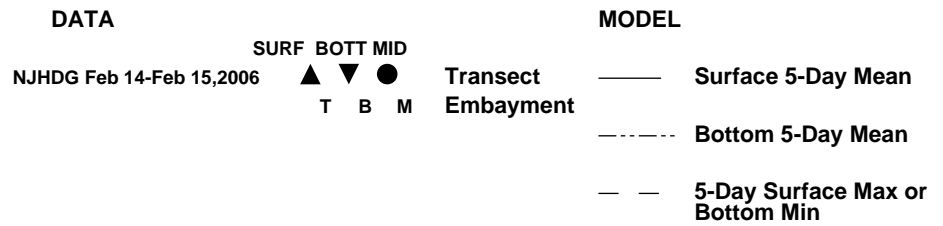
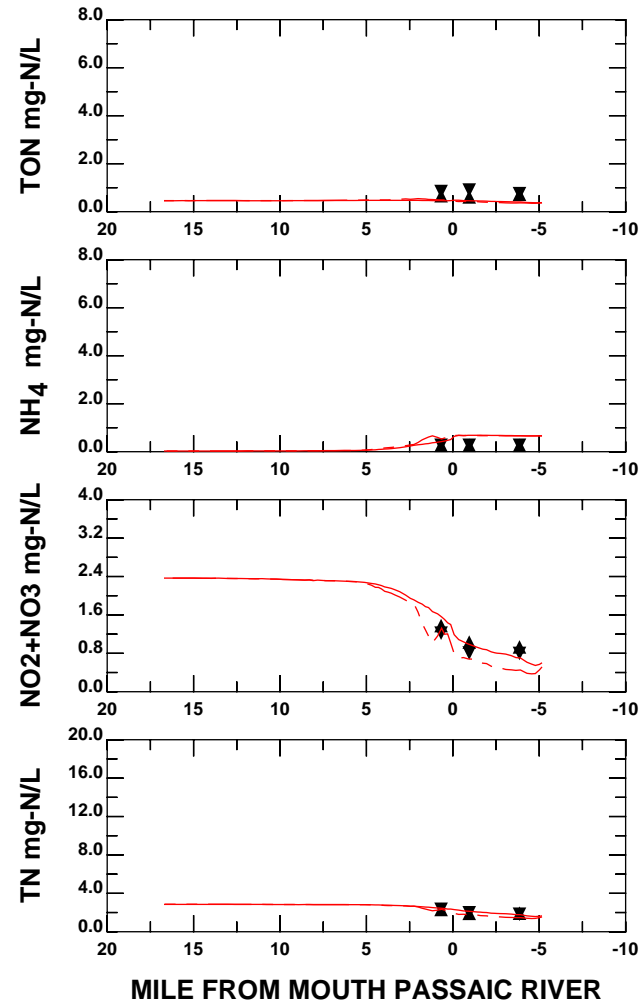
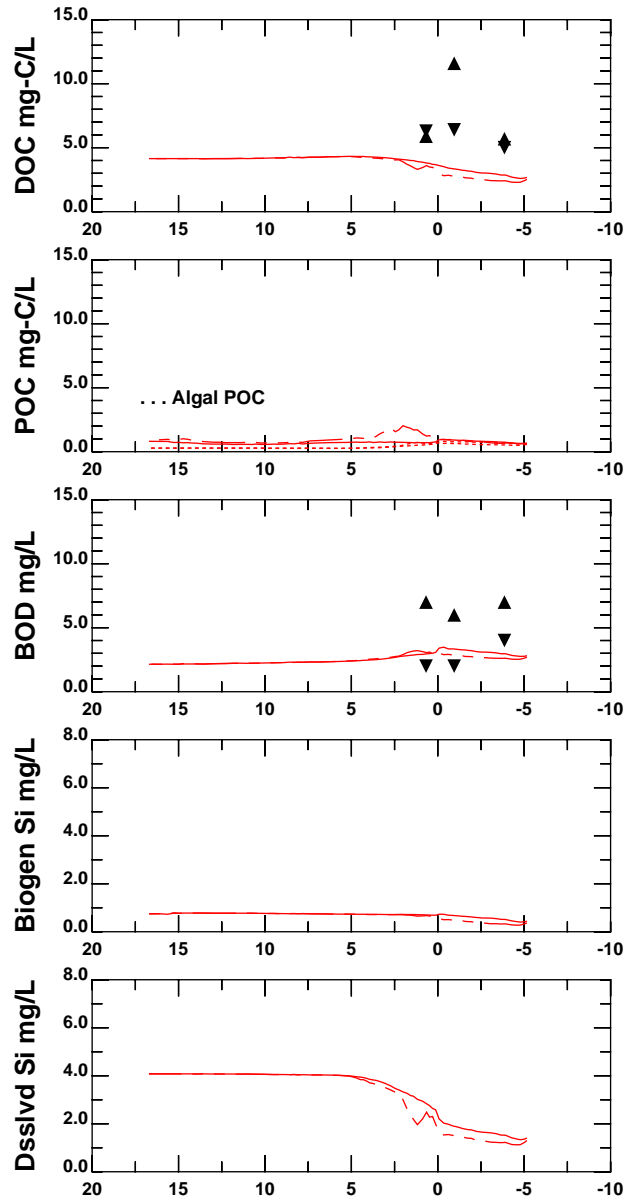
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506

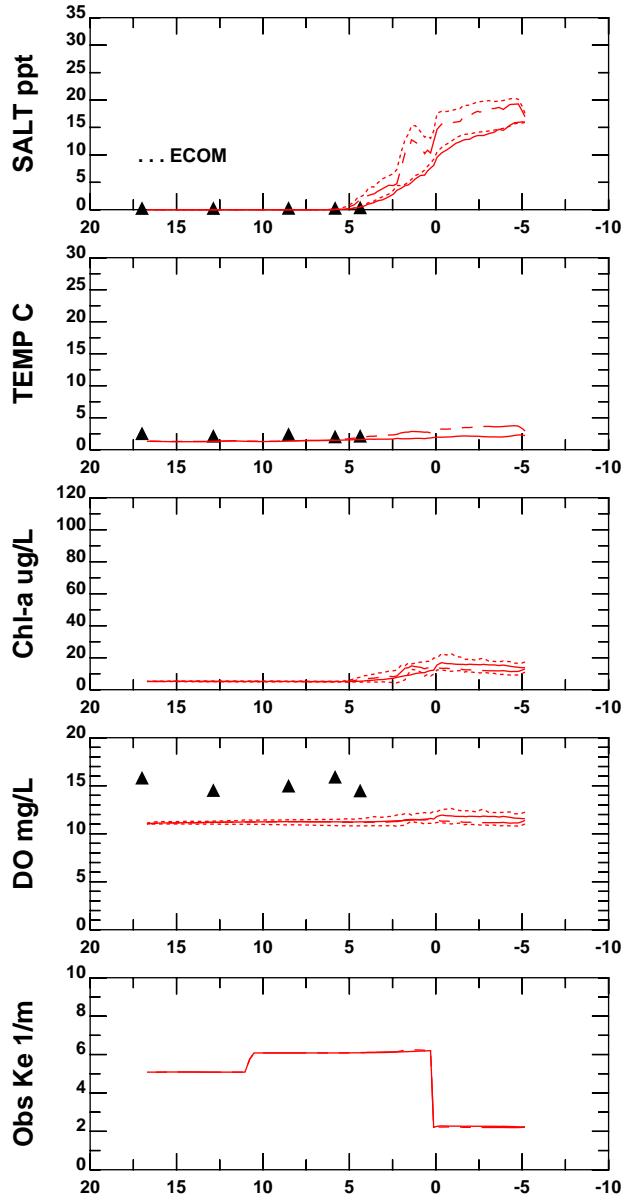


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



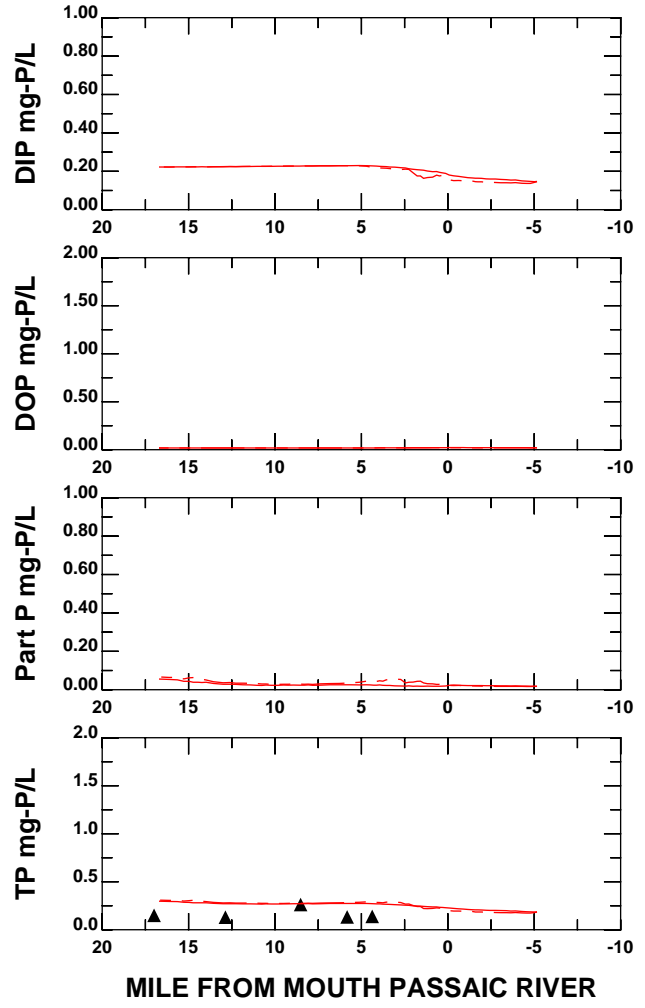


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

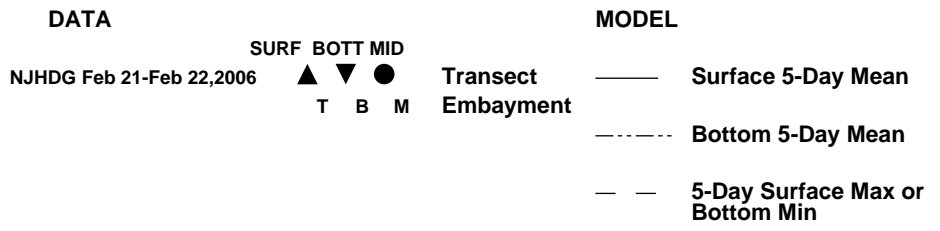


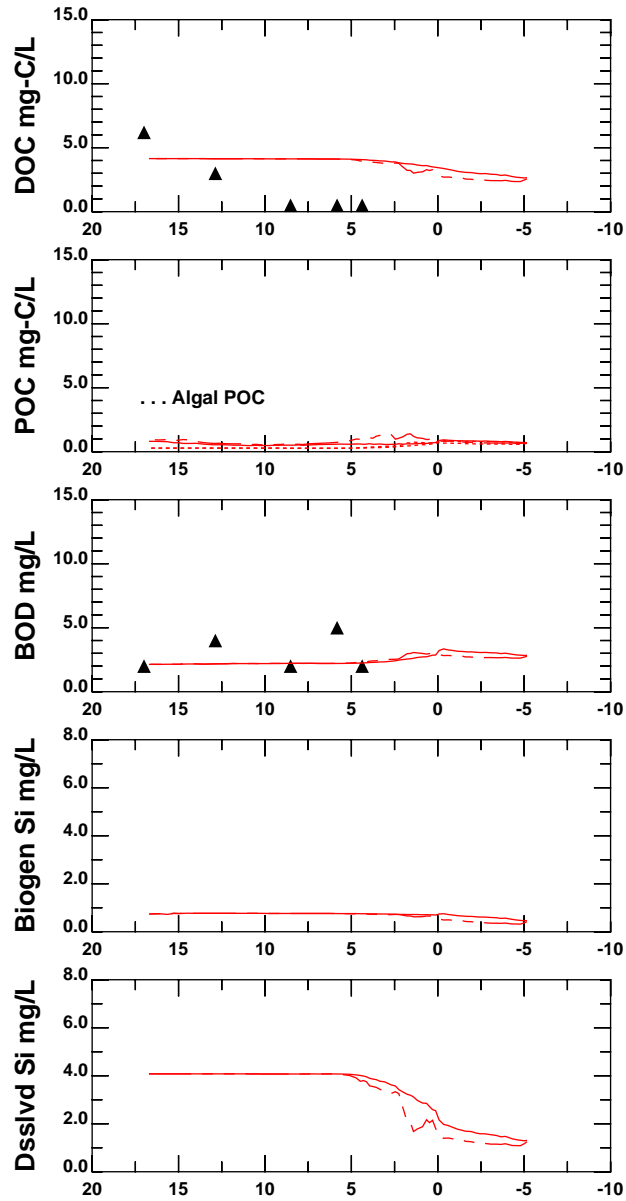
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

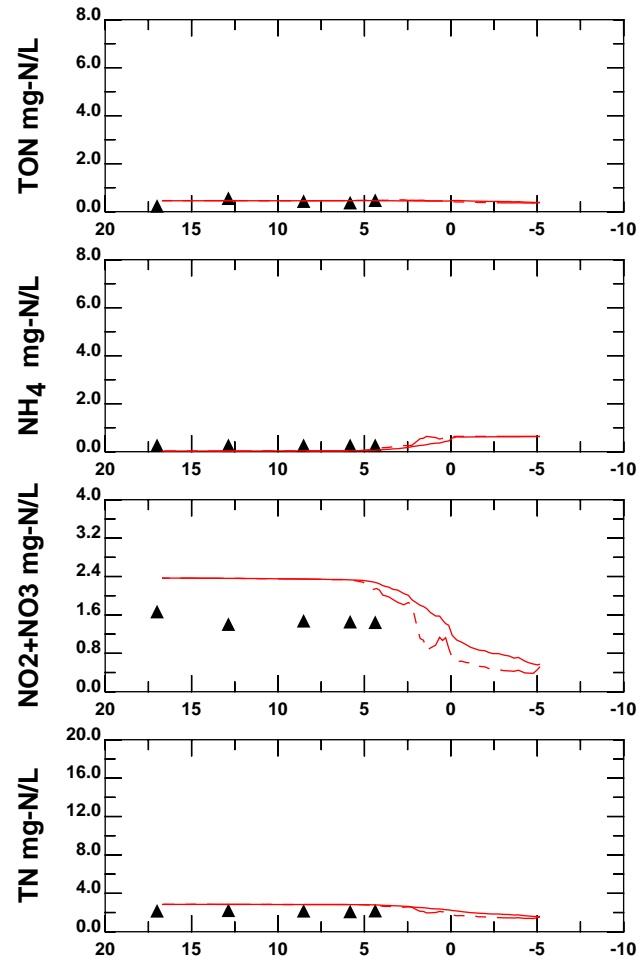




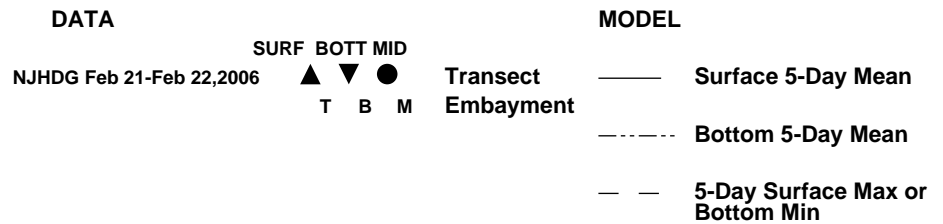
MILE FROM MOUTH PASSAIC RIVER

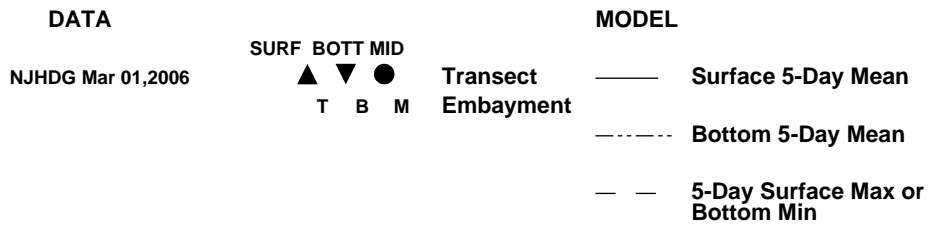
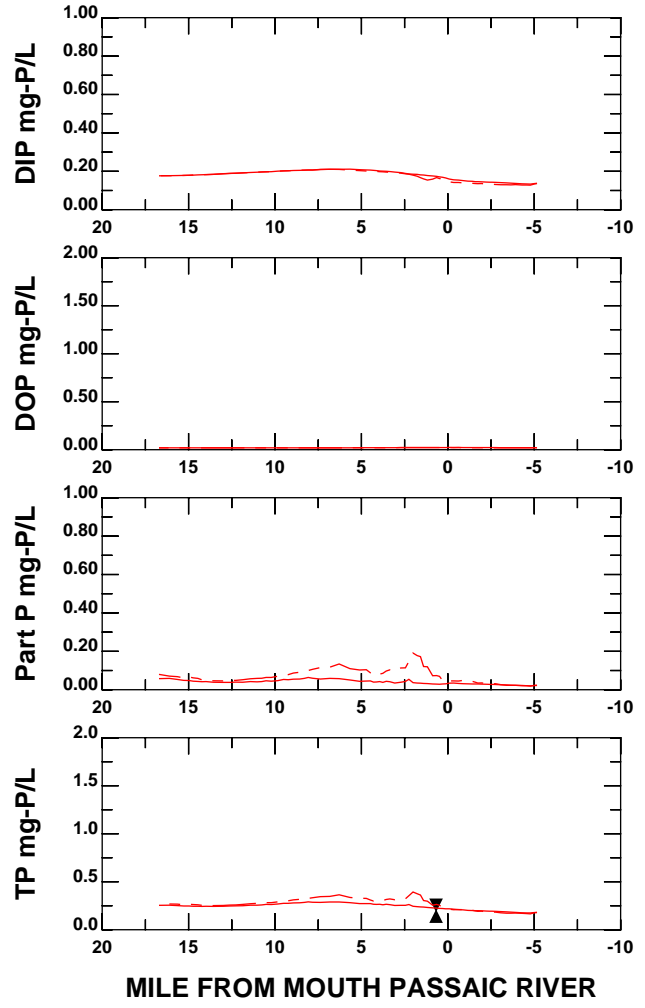
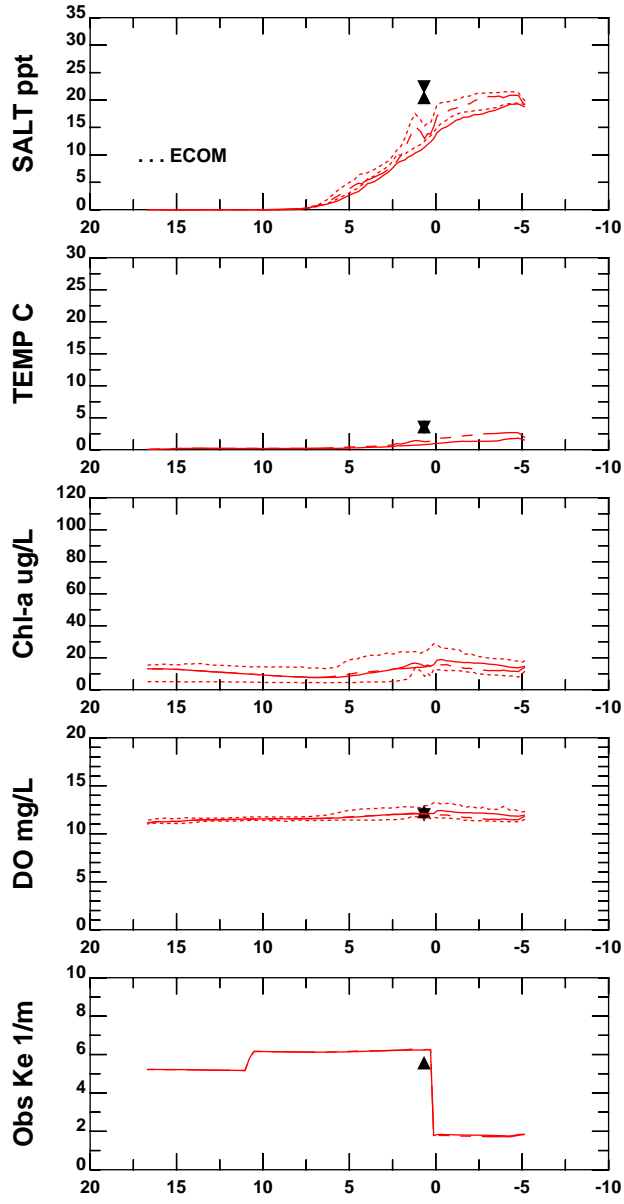
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

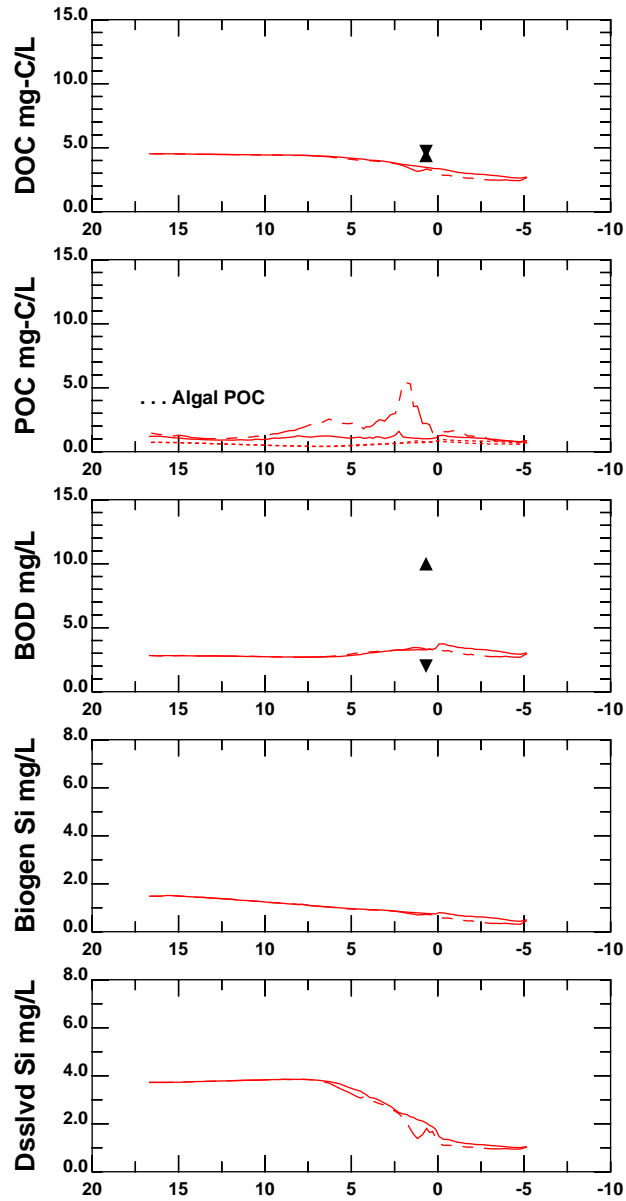


MILE FROM MOUTH PASSAIC RIVER





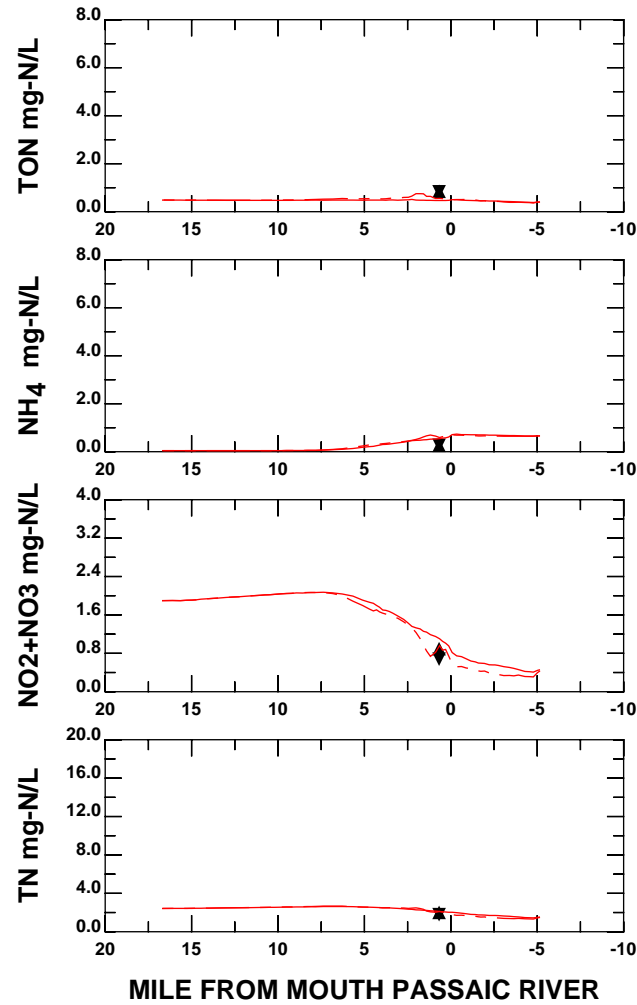
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Mar 01,2006

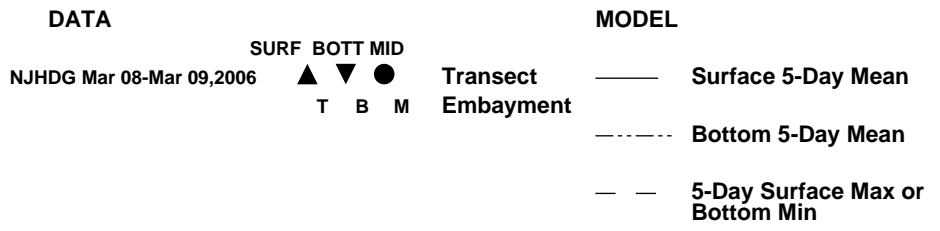
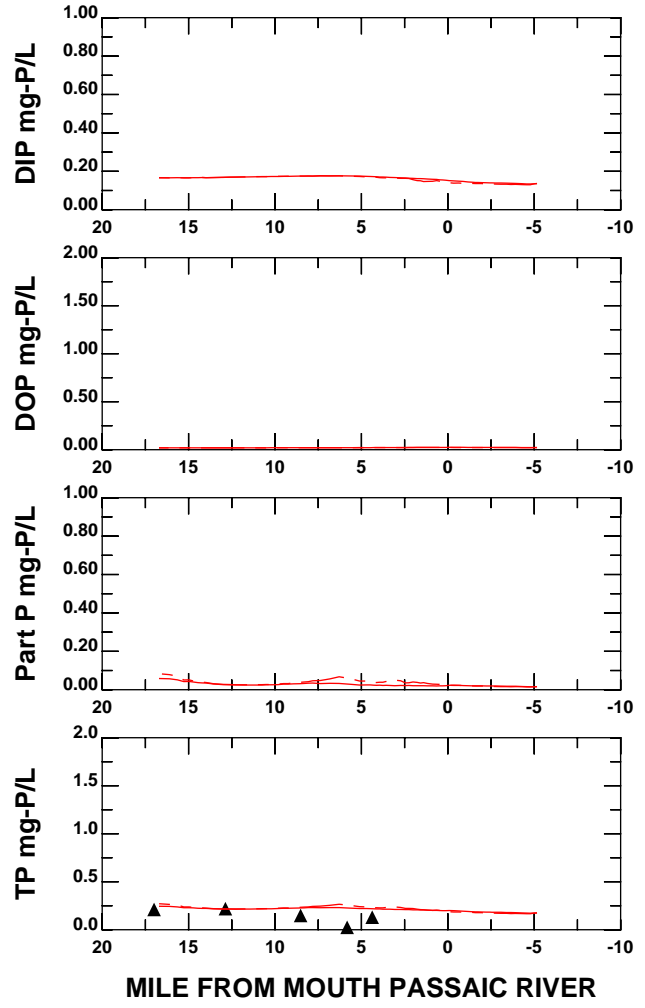
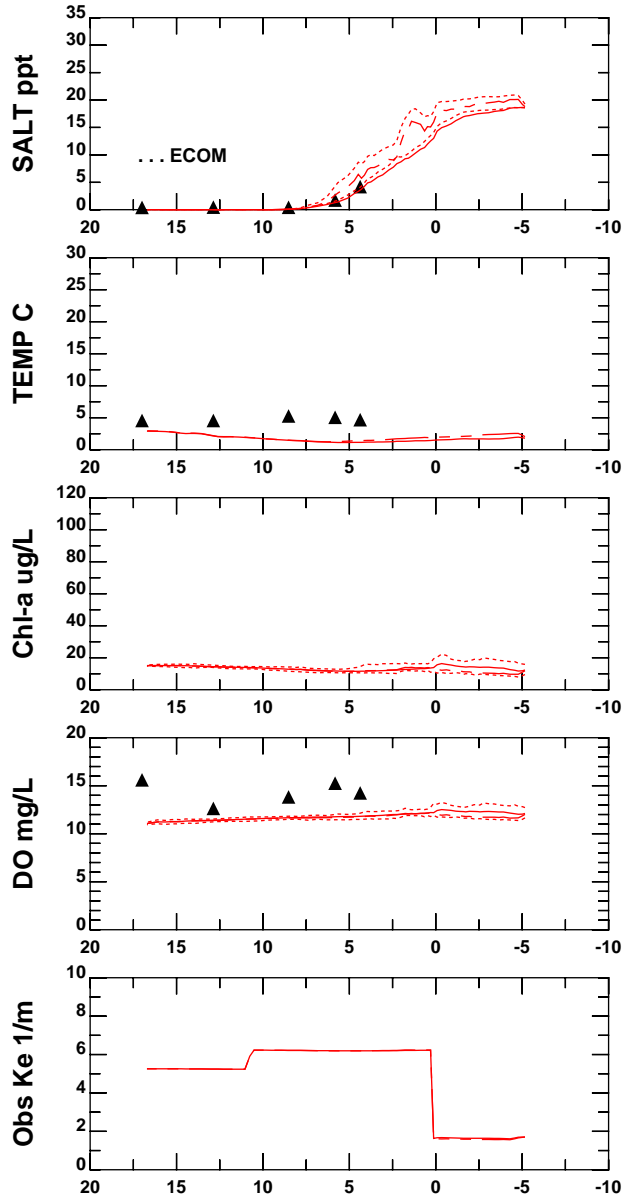
SURF BOTT MID

▲ ▼ ●  
T B M

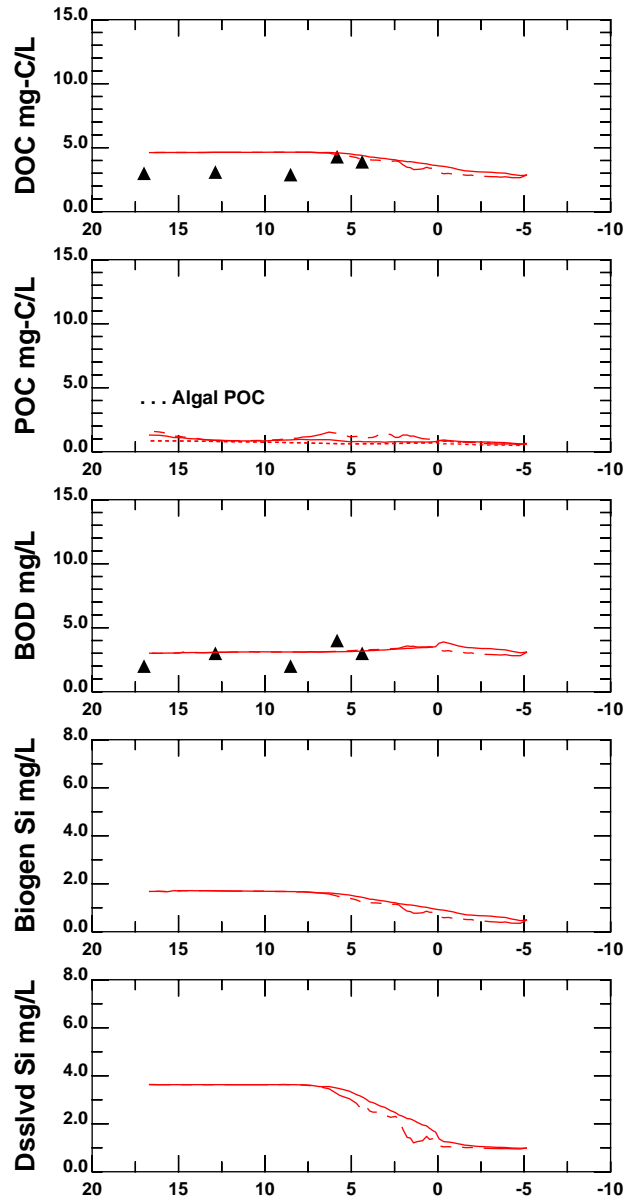
Transect  
Embayment

#### MODEL

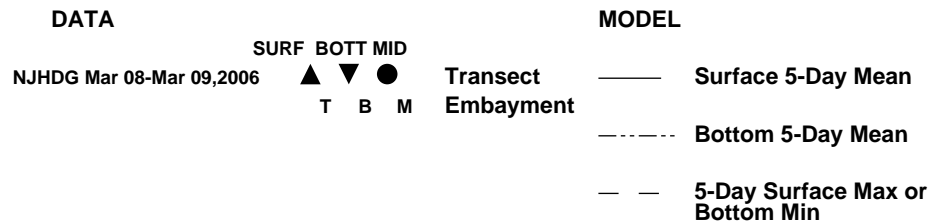
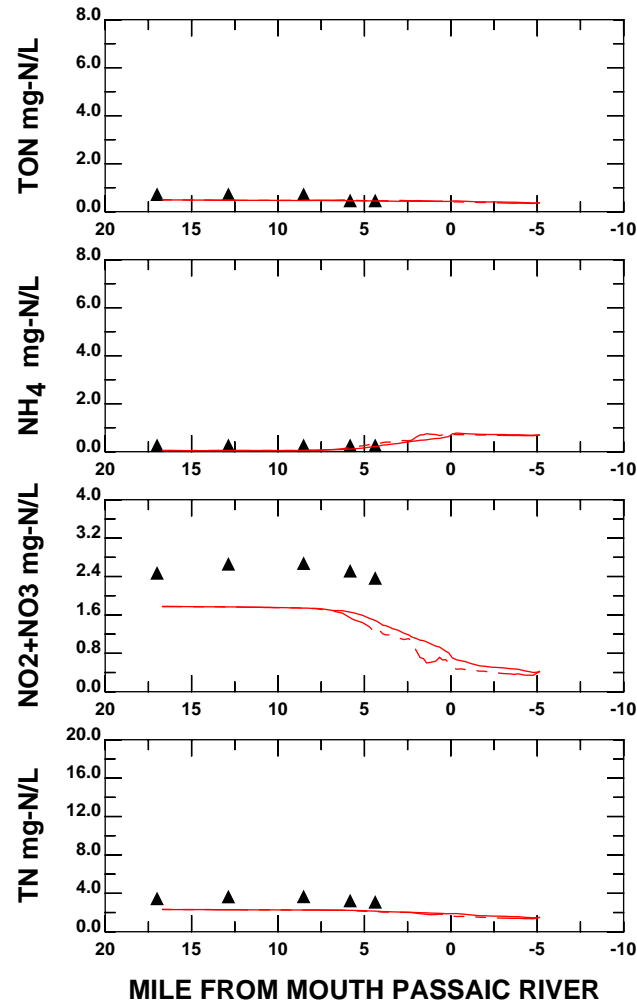
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

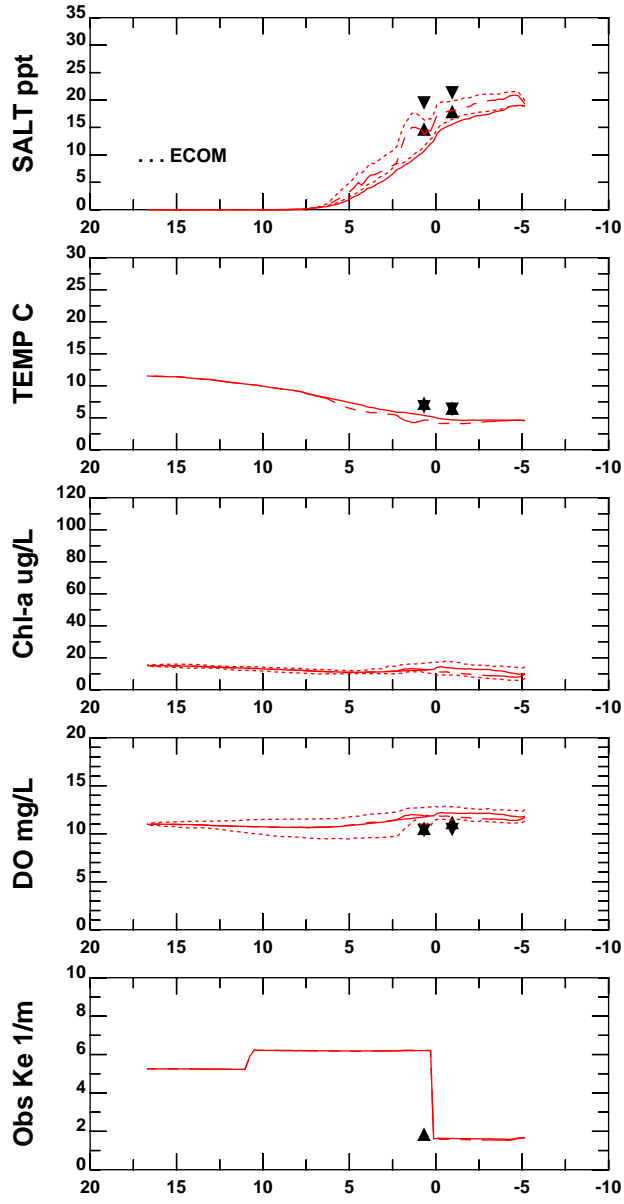


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



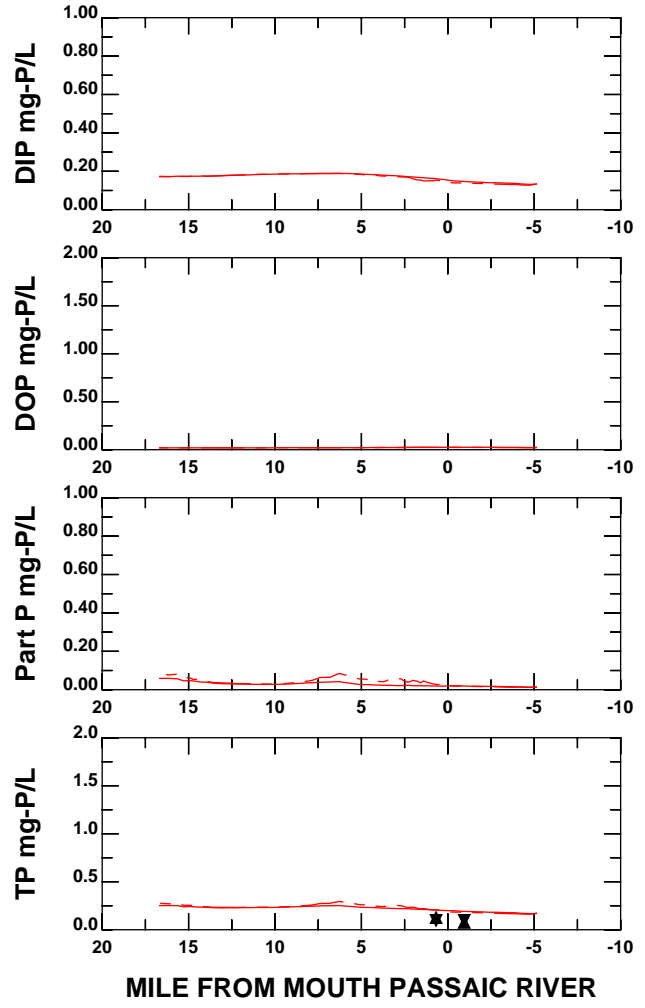
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506





MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



DATA  
 NJHDG Mar 15,2006

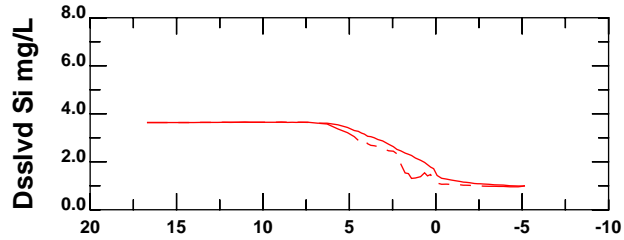
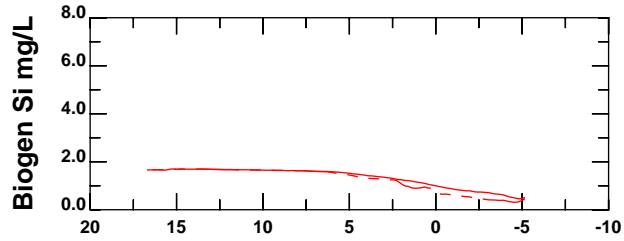
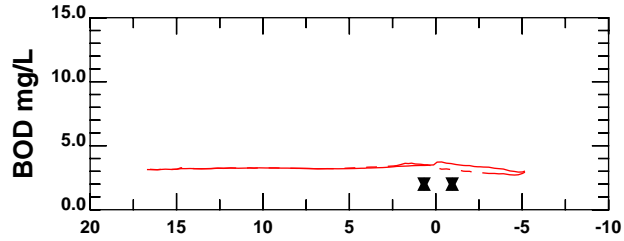
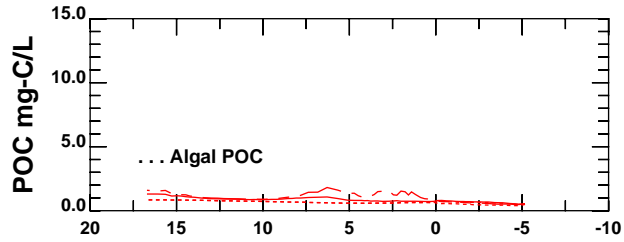
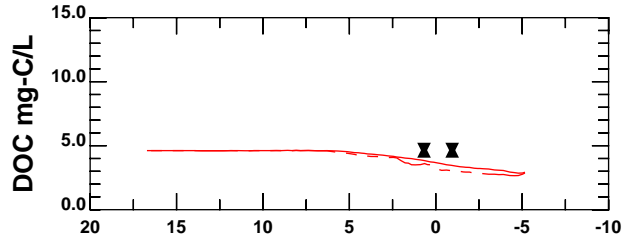
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

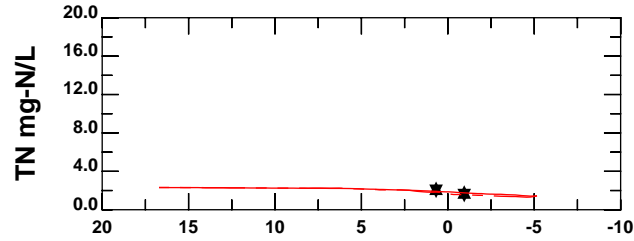
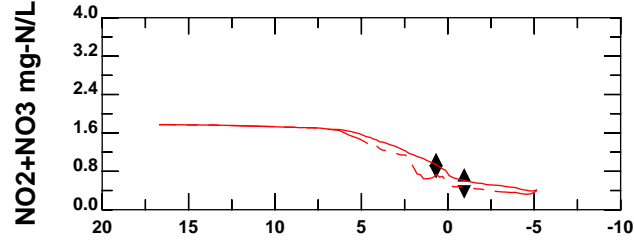
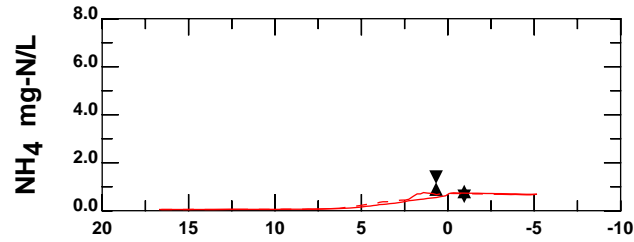
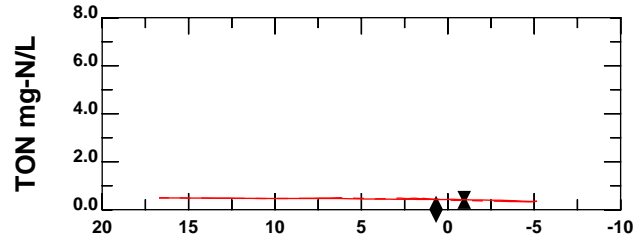
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

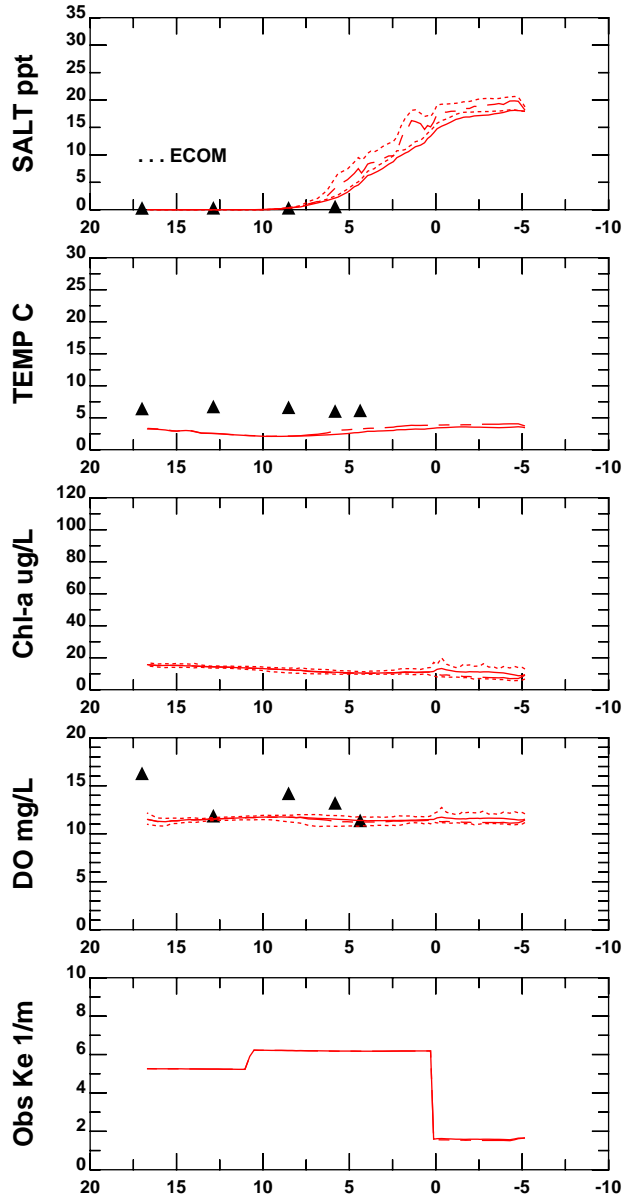
DATA  
NJHGD Mar 15, 2006

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

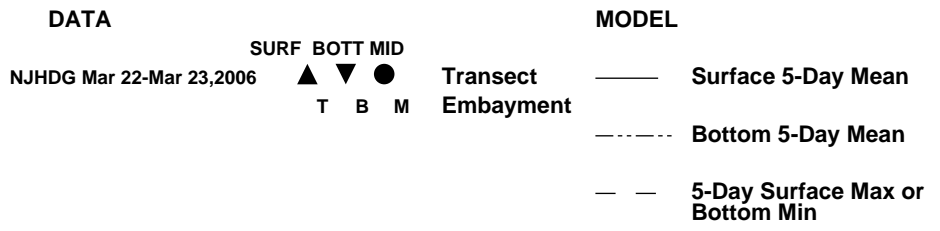
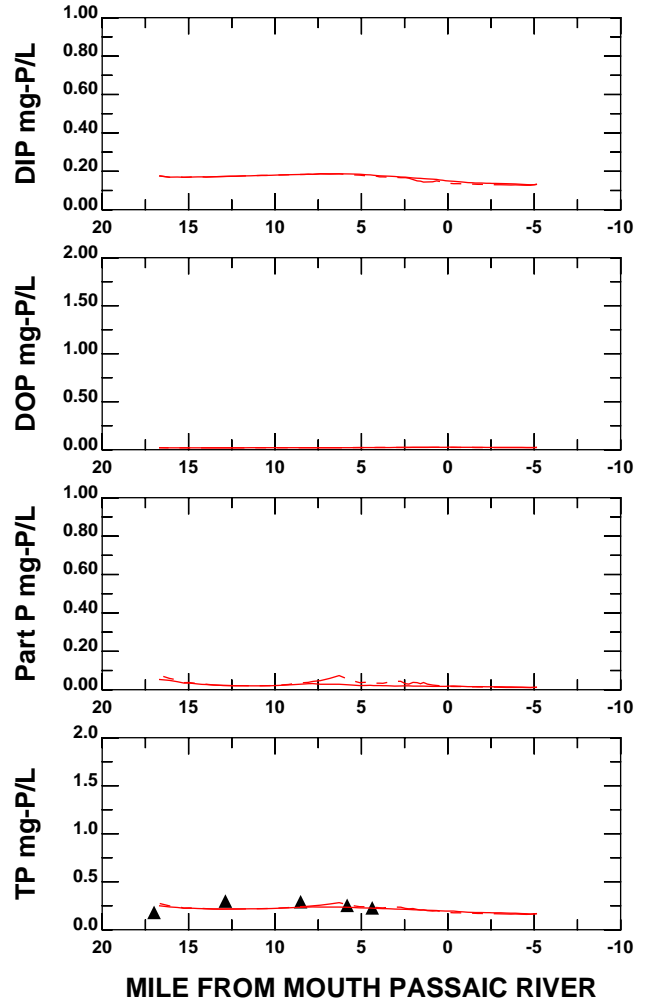
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

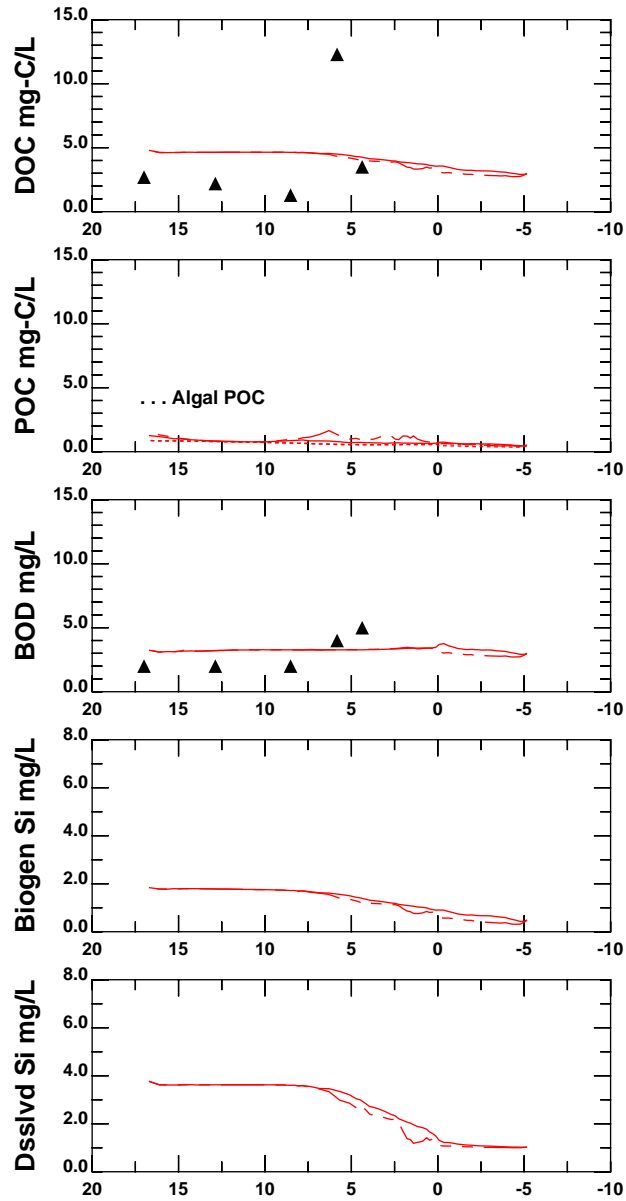
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



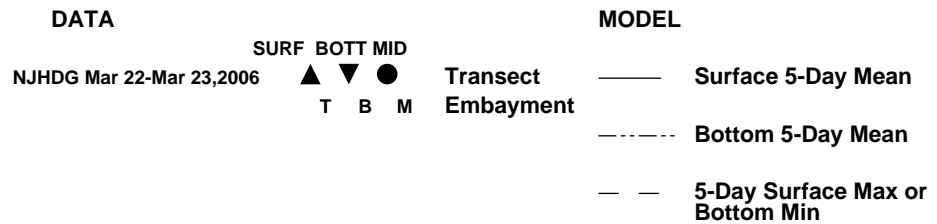
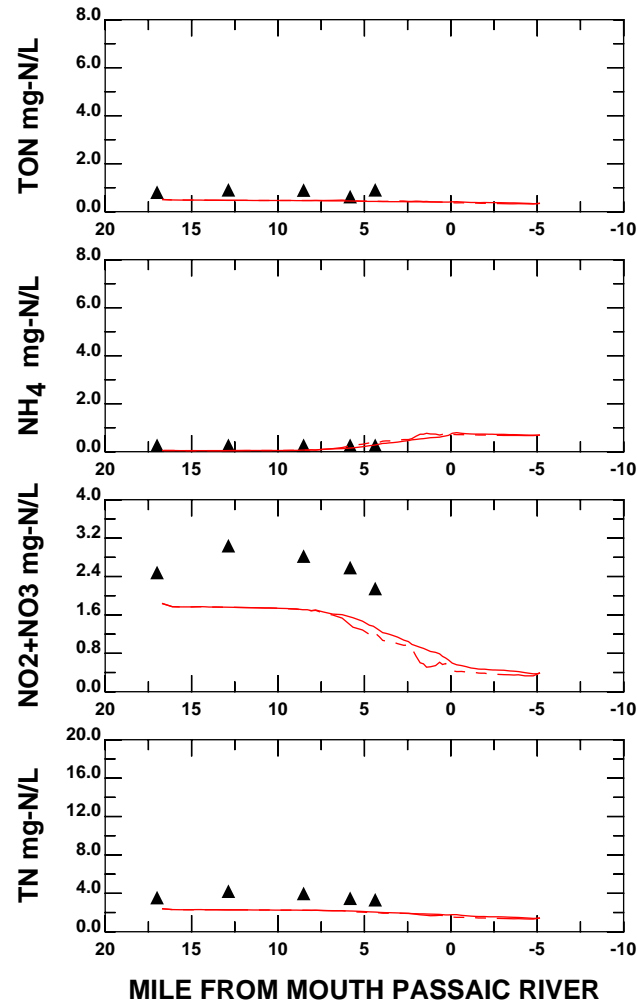
MILE FROM MOUTH PASSAIC RIVER

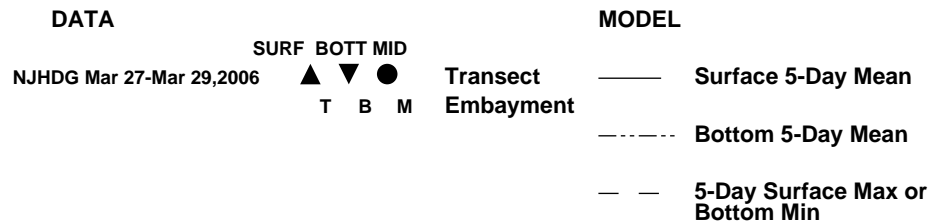
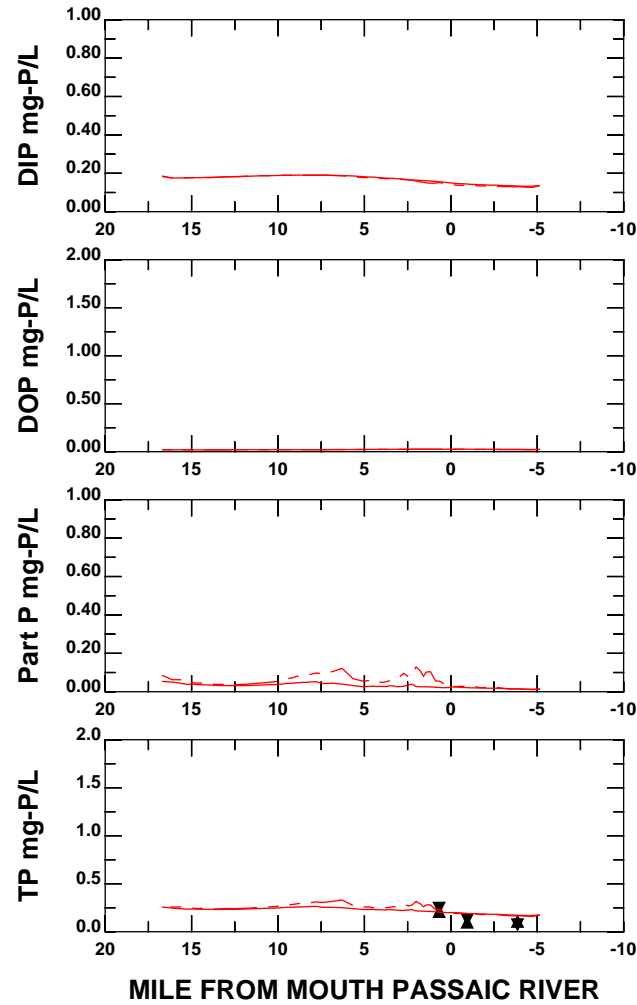
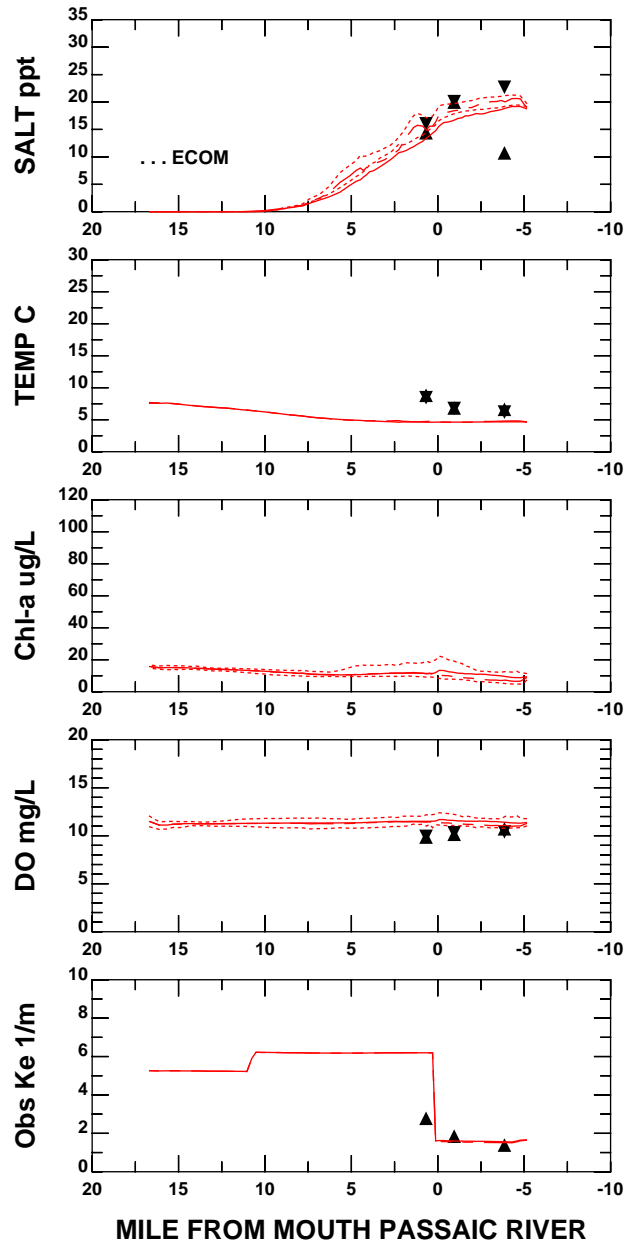
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



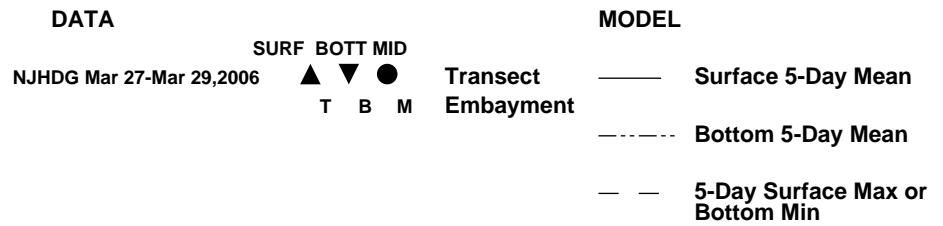
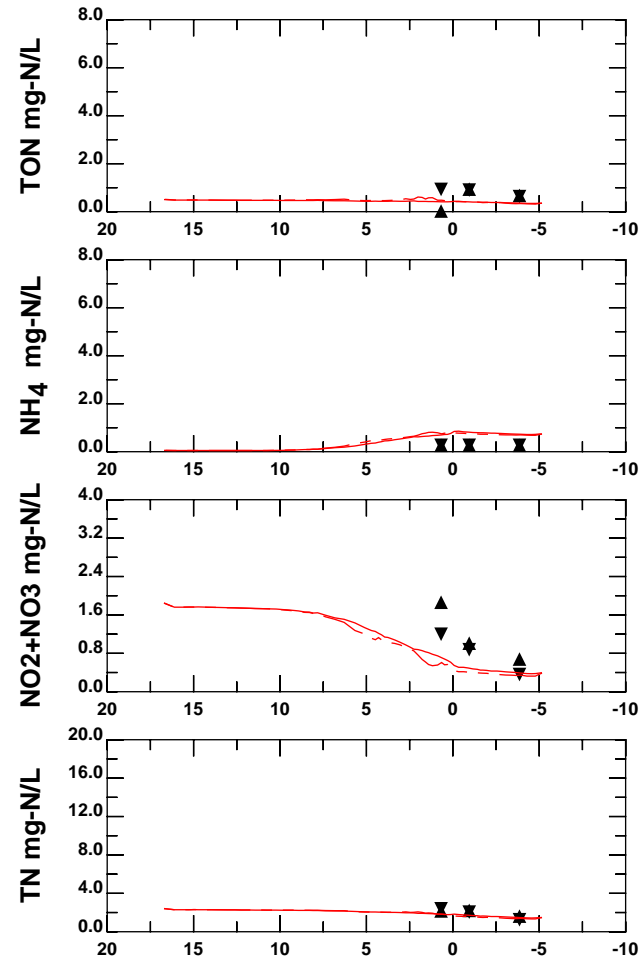
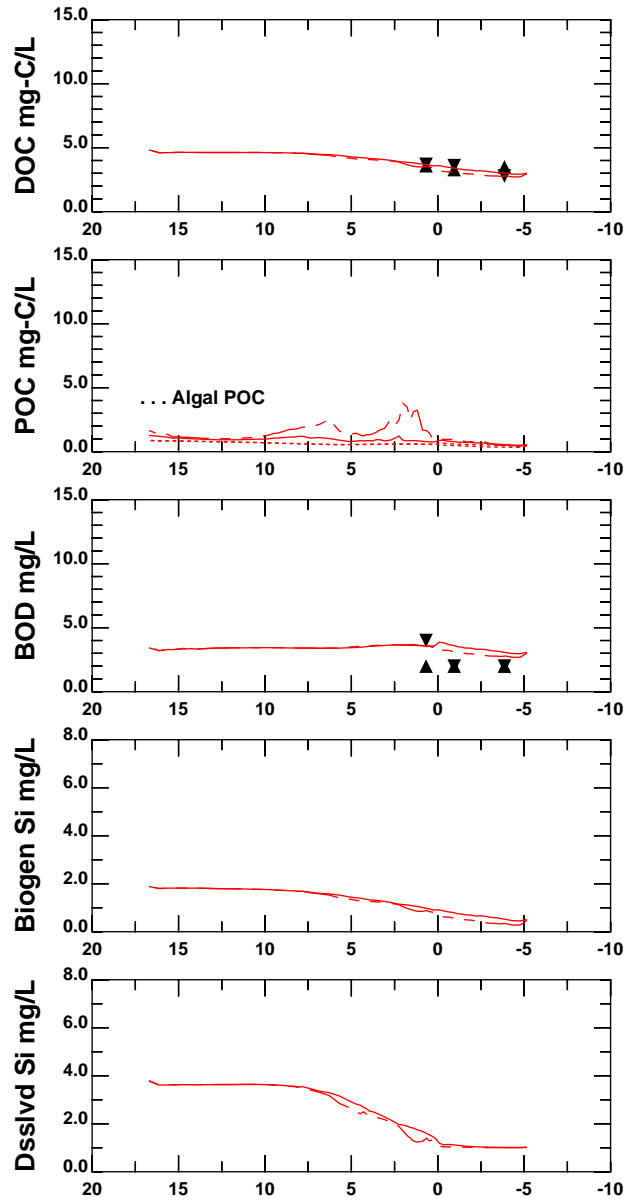


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

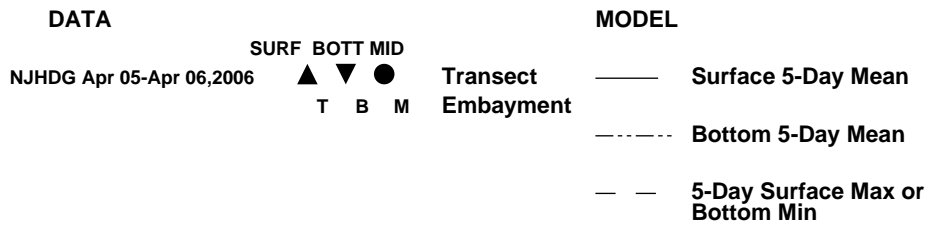
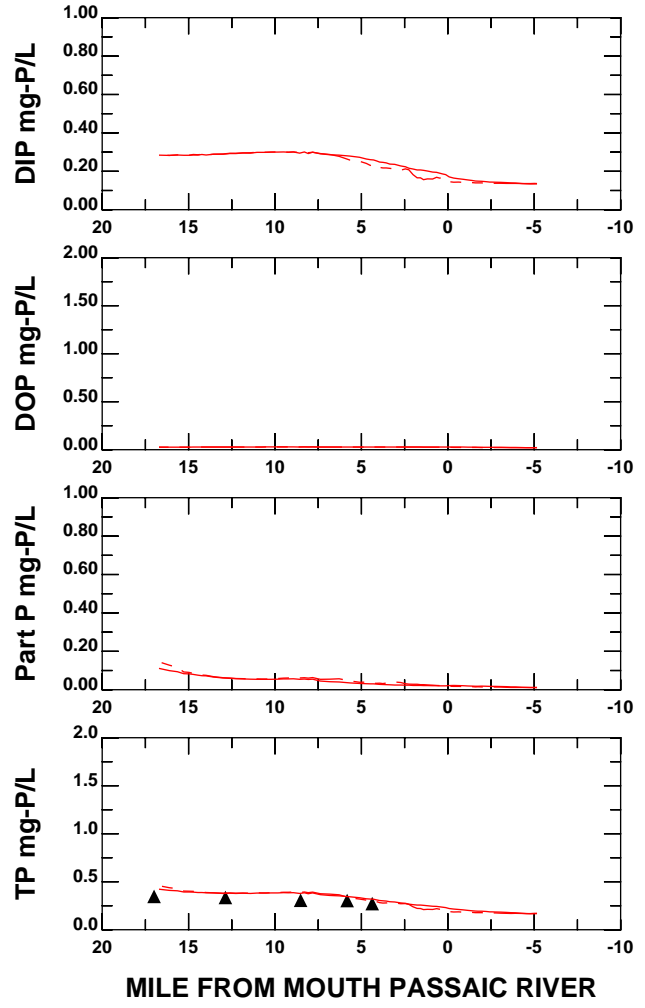
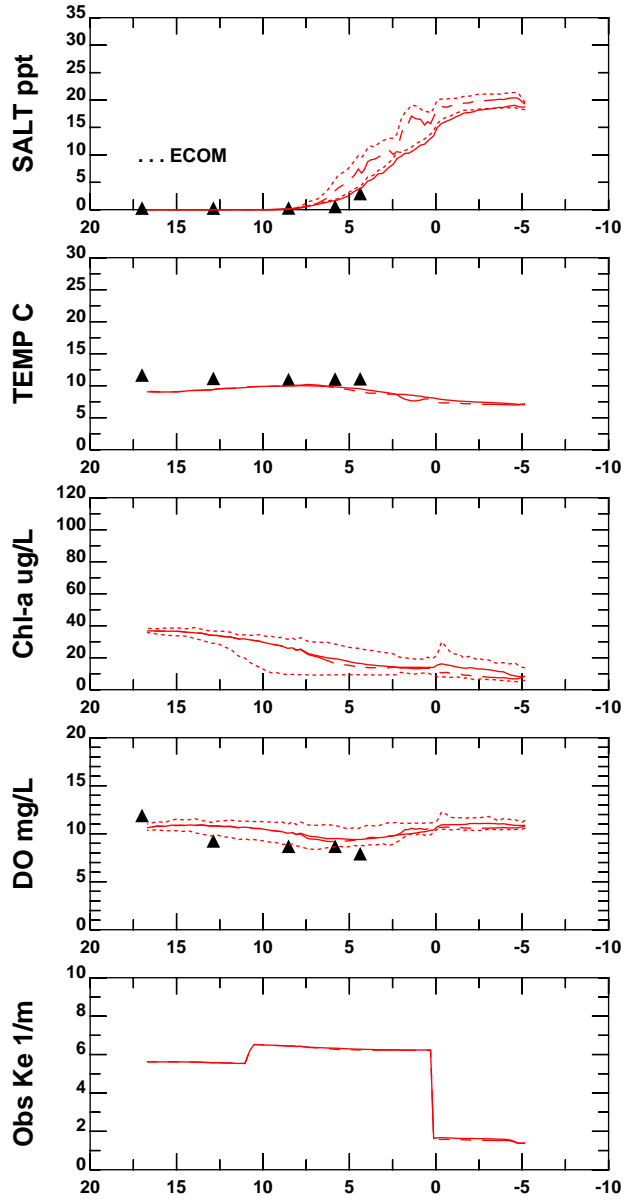




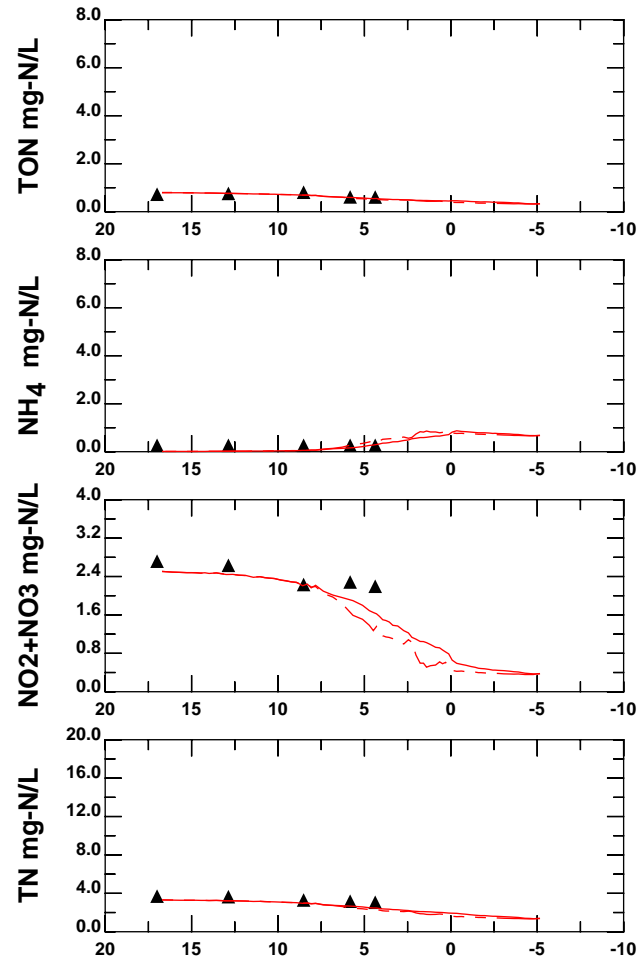
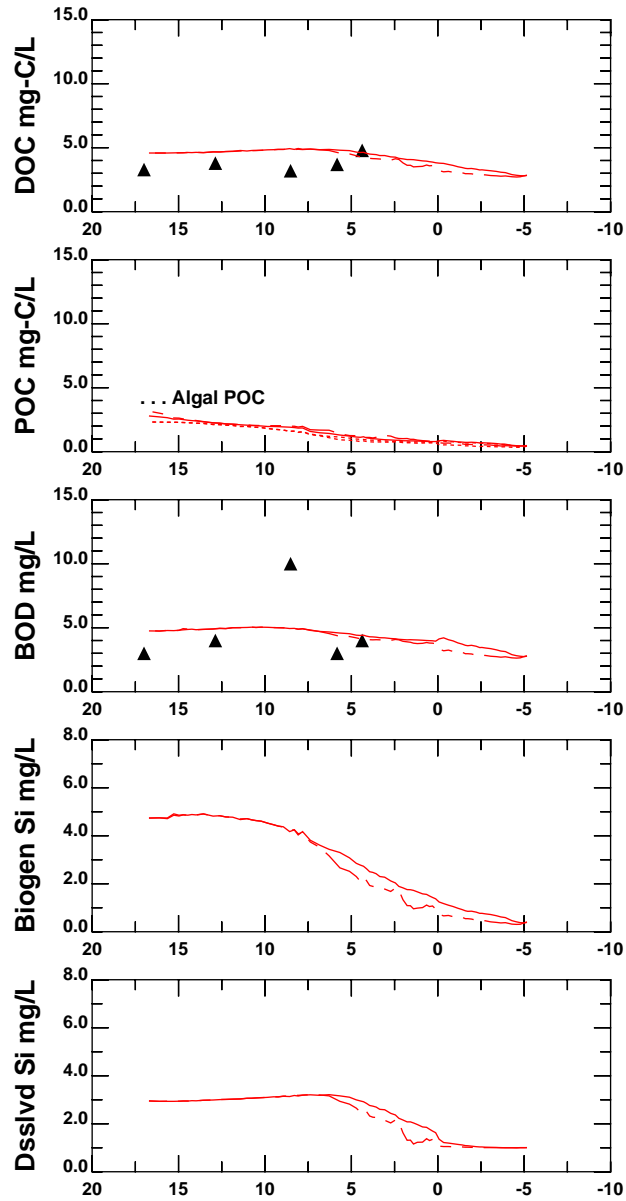
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**DATA**

NJHDG Apr 05-Apr 06, 2006

SURF BOTT MID

▲ ▼ ●  
T B M

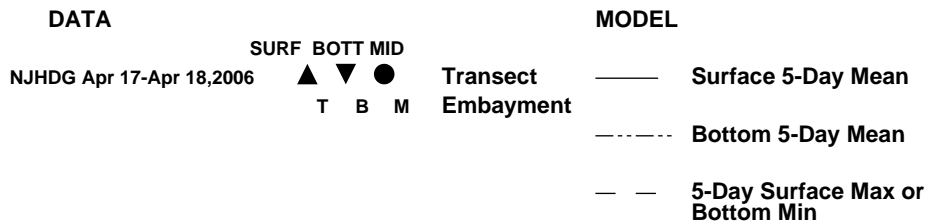
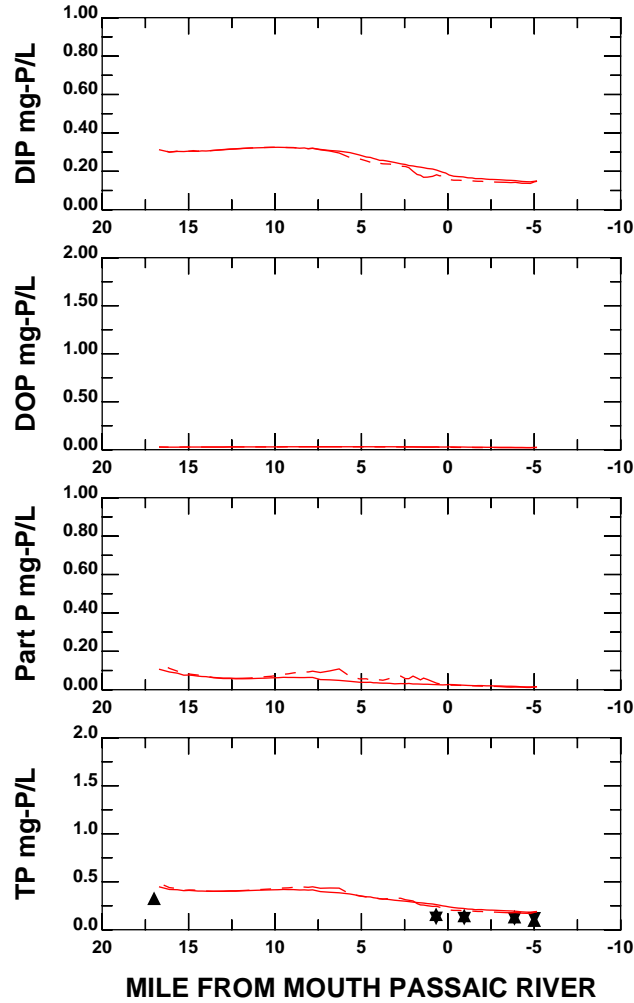
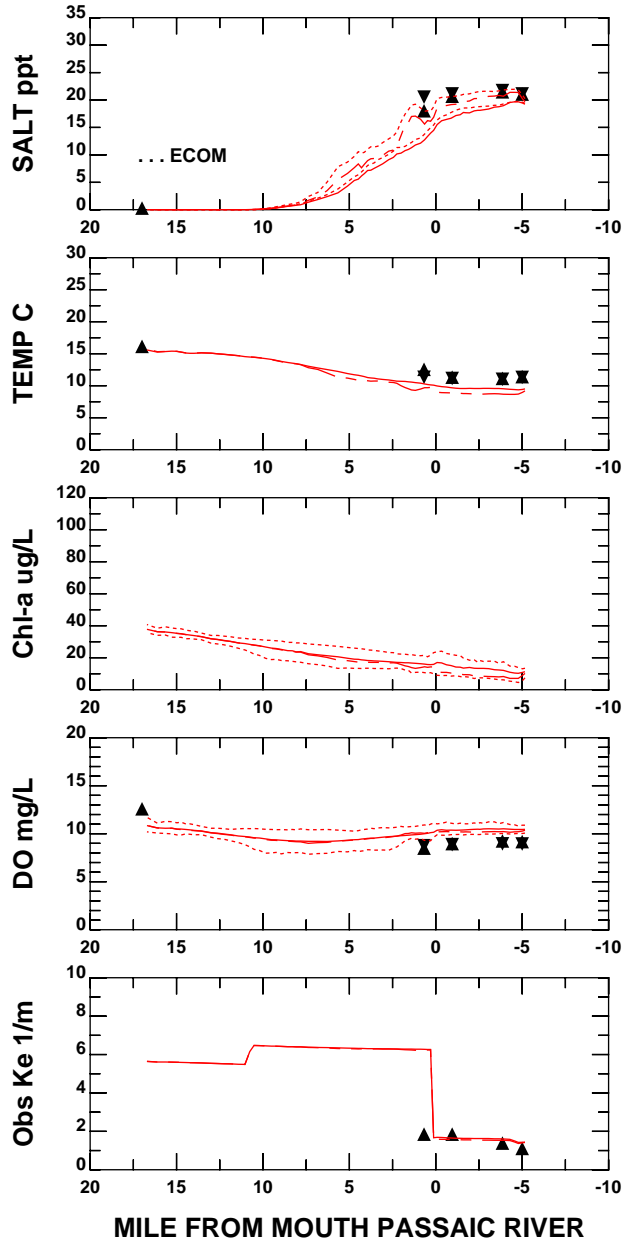
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

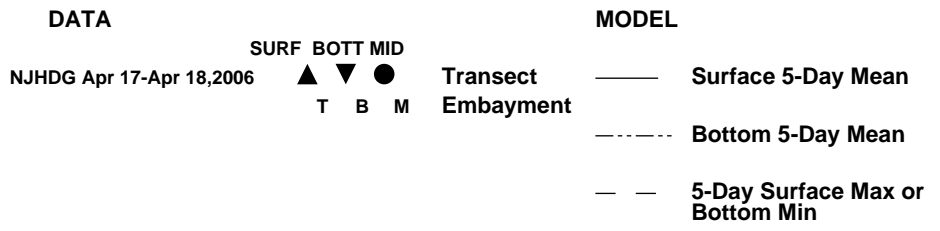
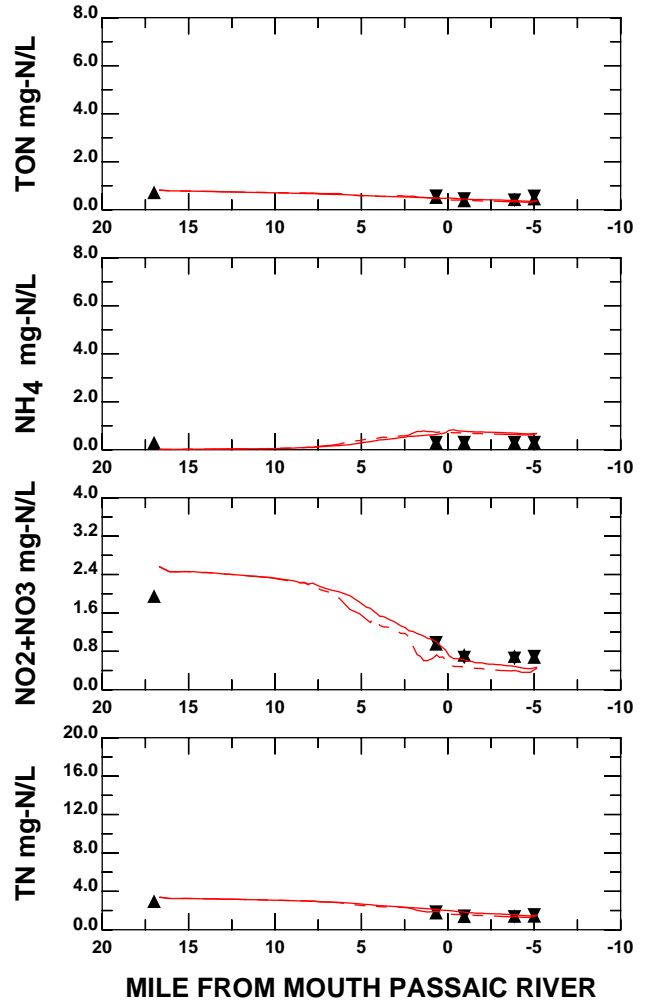
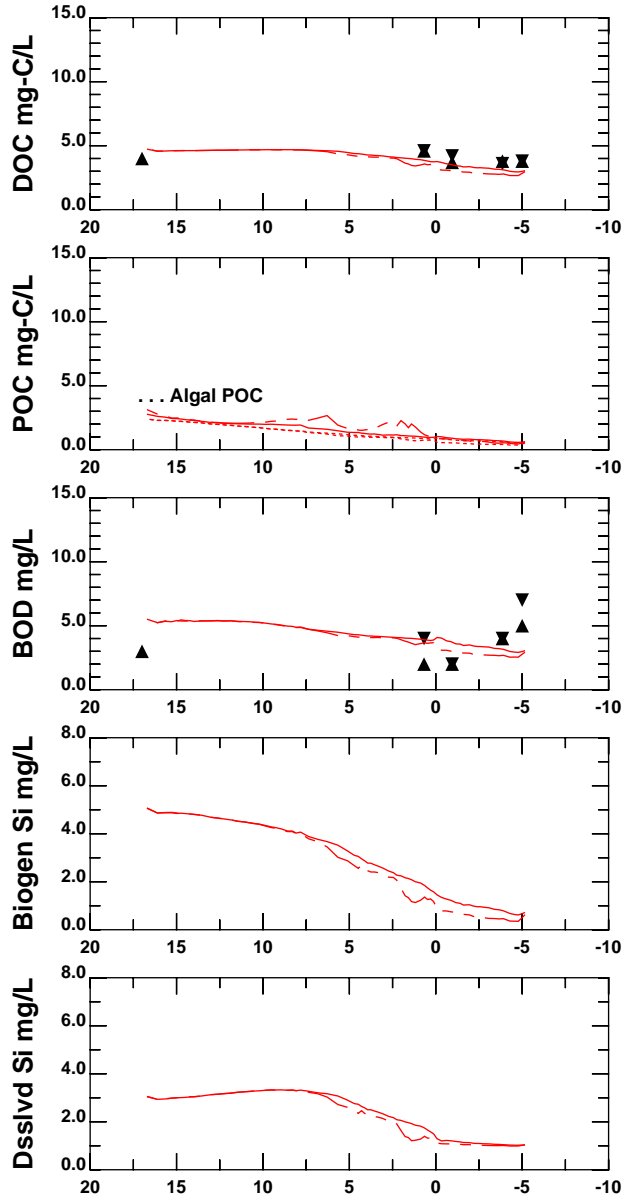
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0506

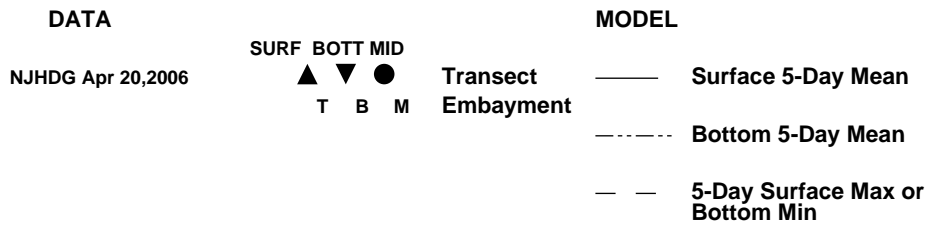
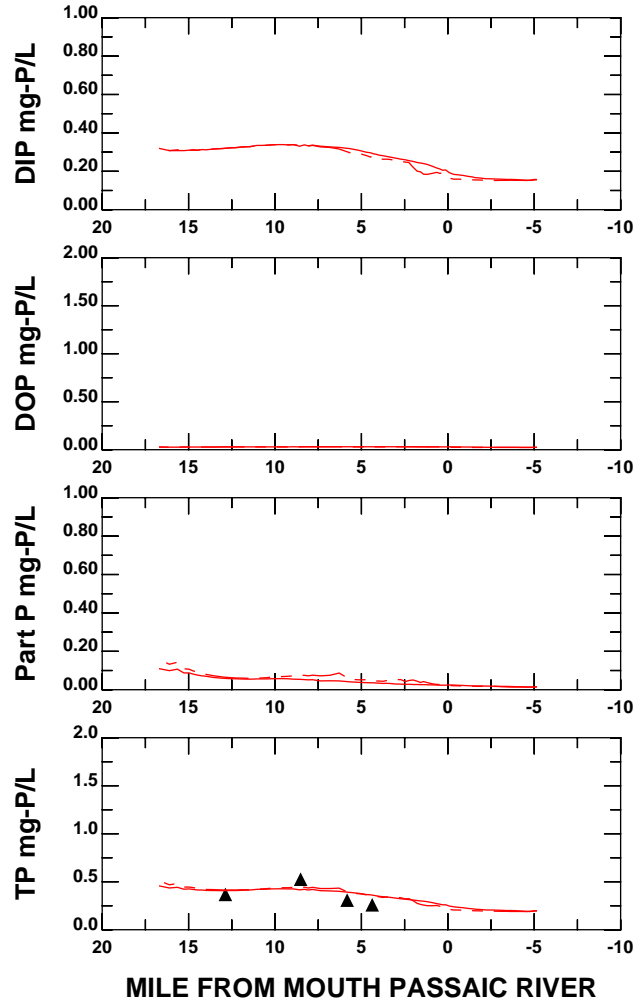
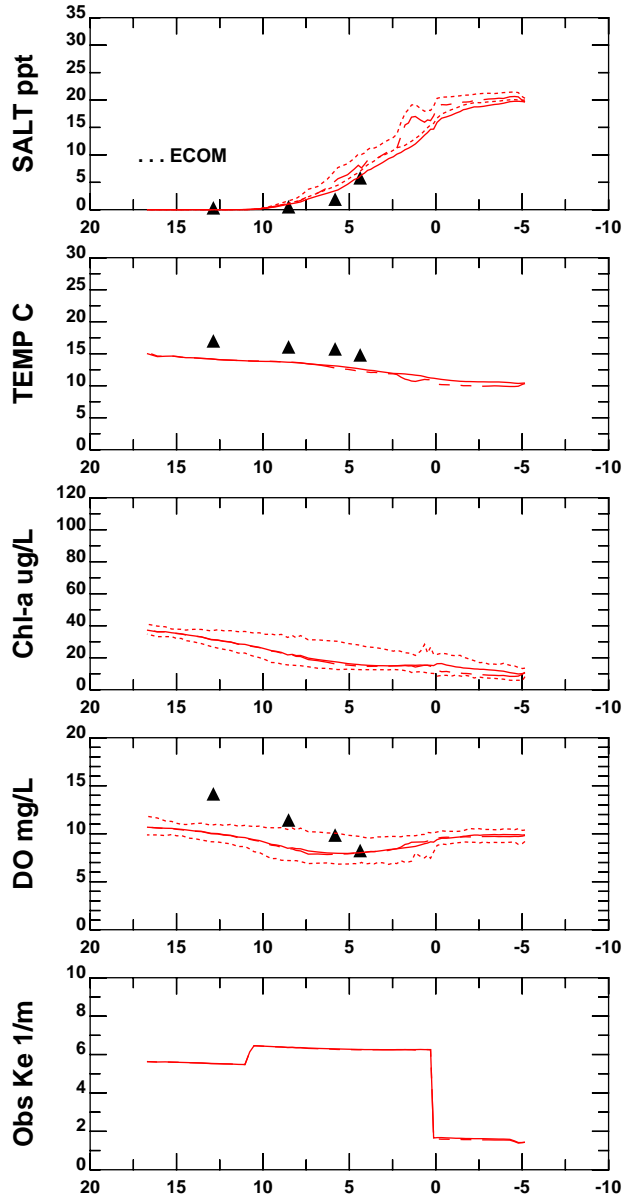


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

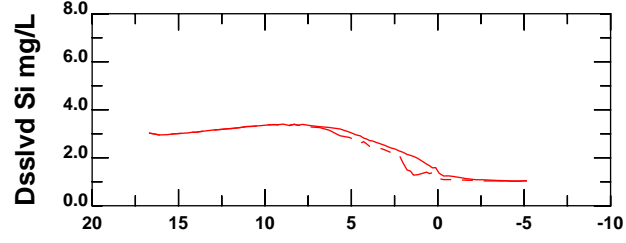
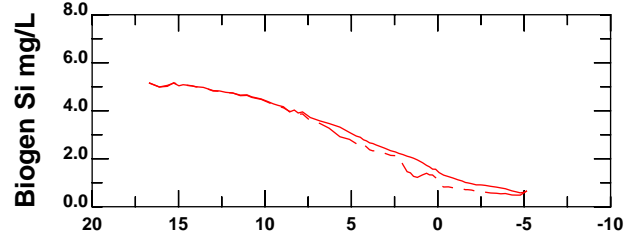
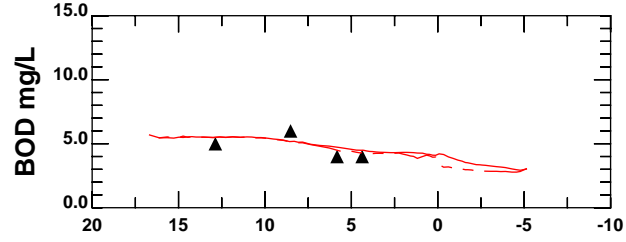
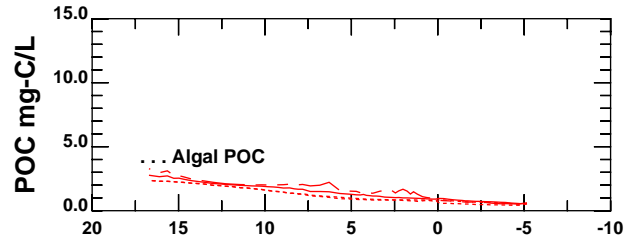
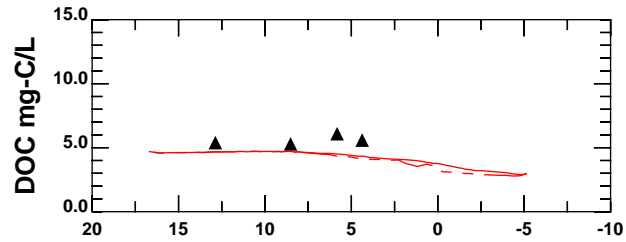




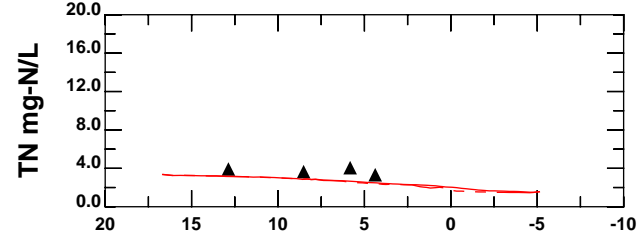
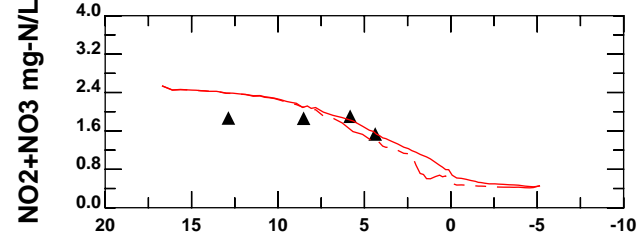
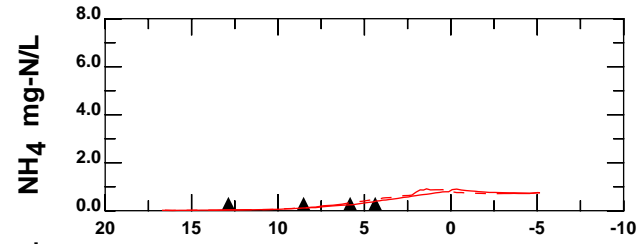
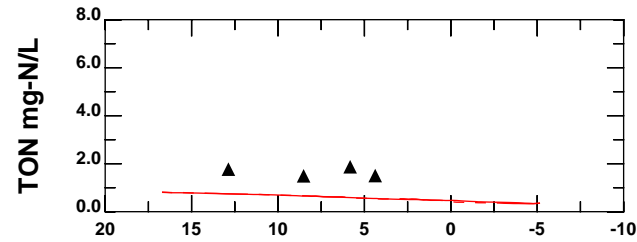
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Apr 20,2006

SURF BOTT MID

▲ ▼ ●  
T B M

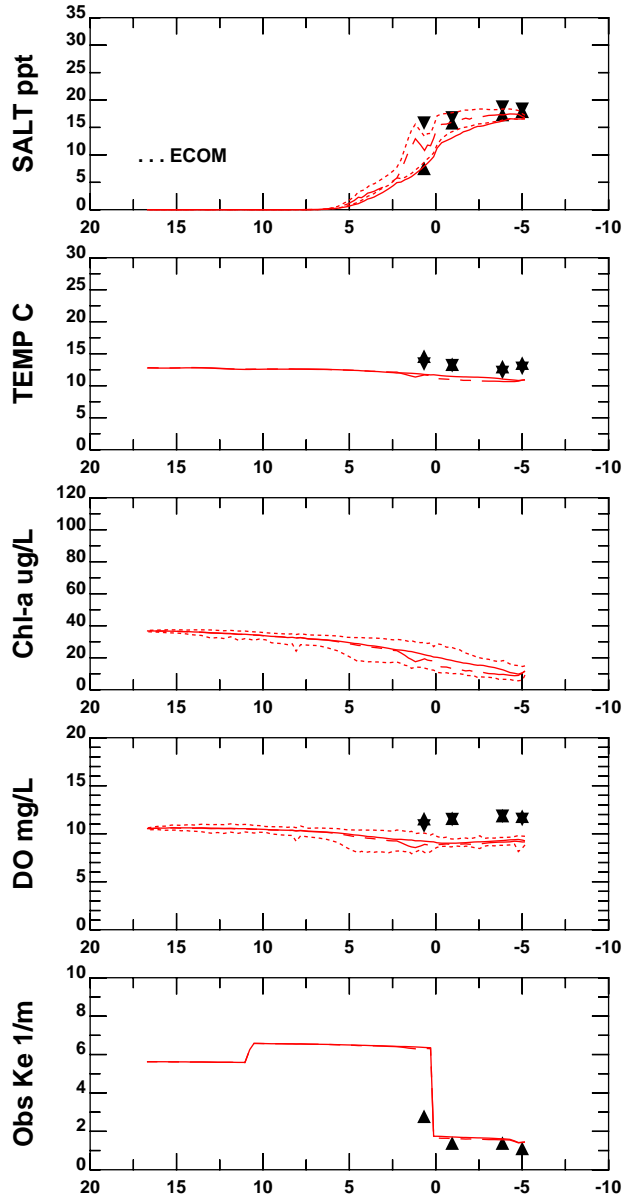
Transect  
Embayment

MODEL

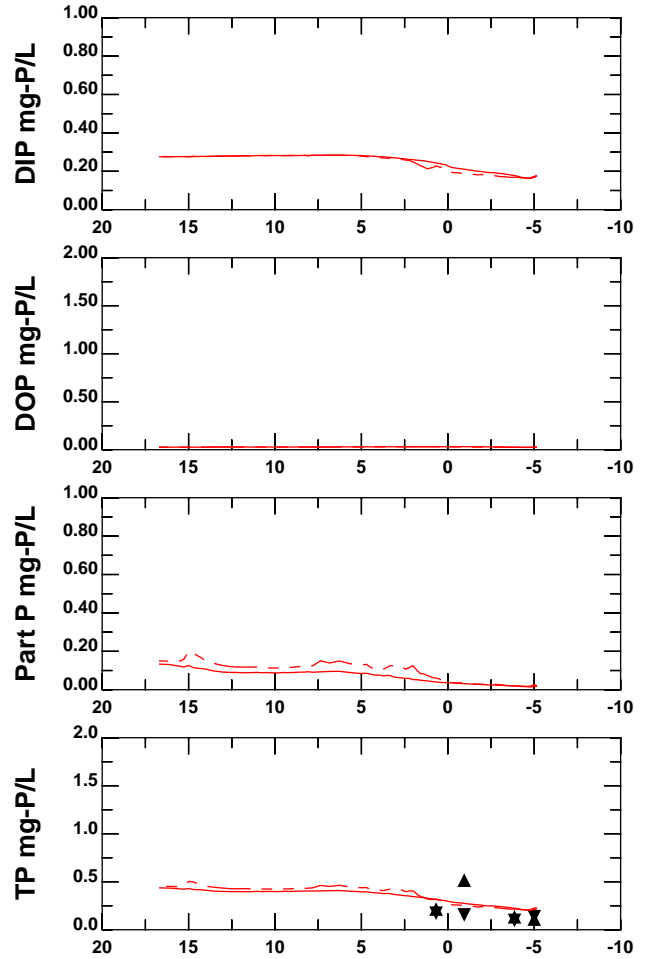
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Apr 27,2006

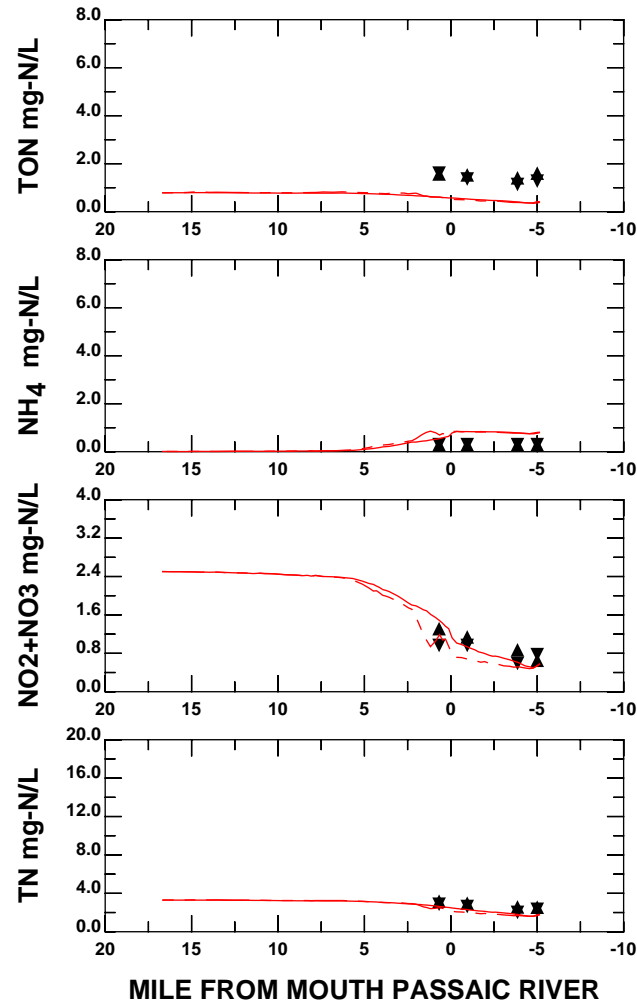
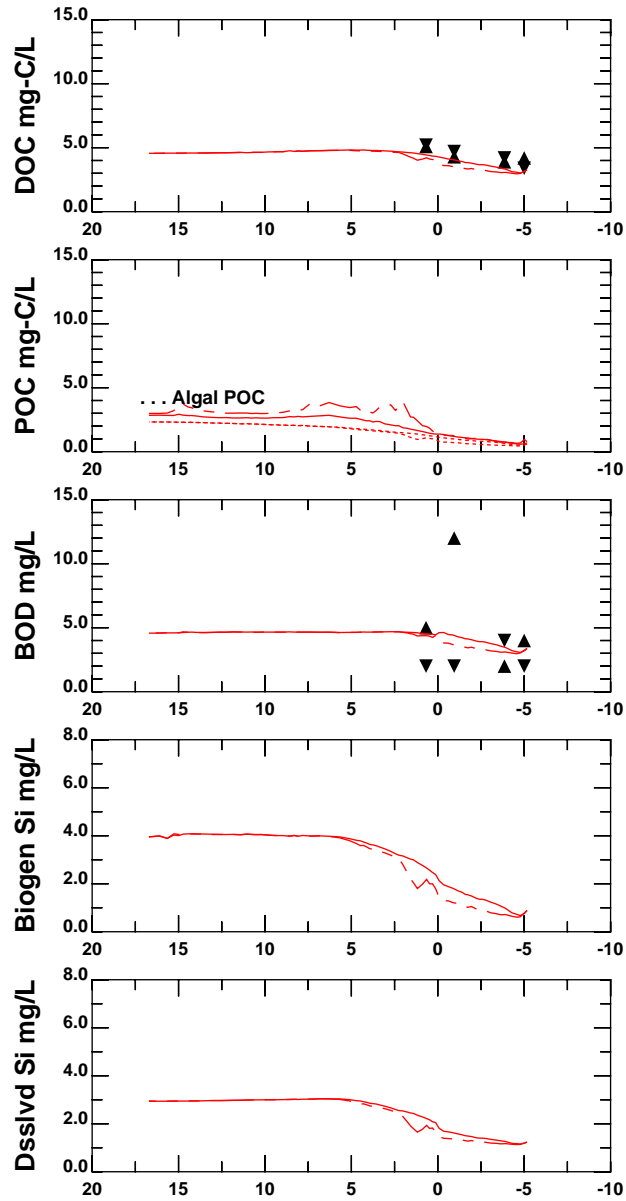
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

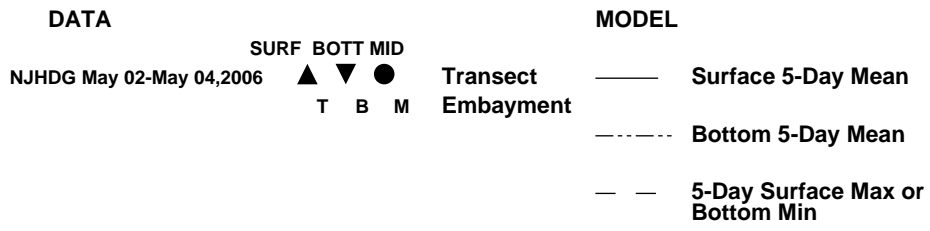
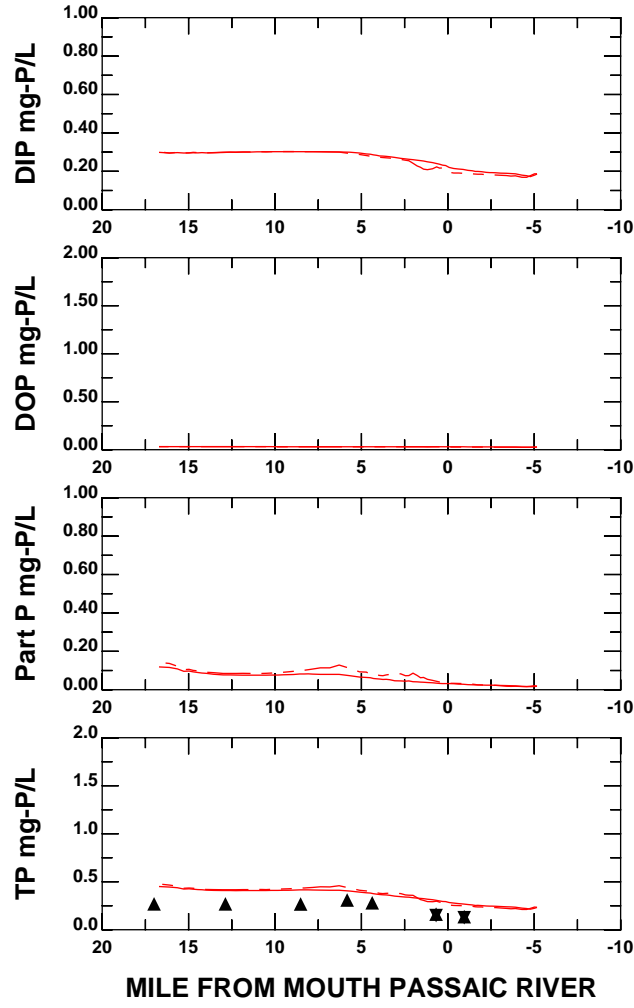
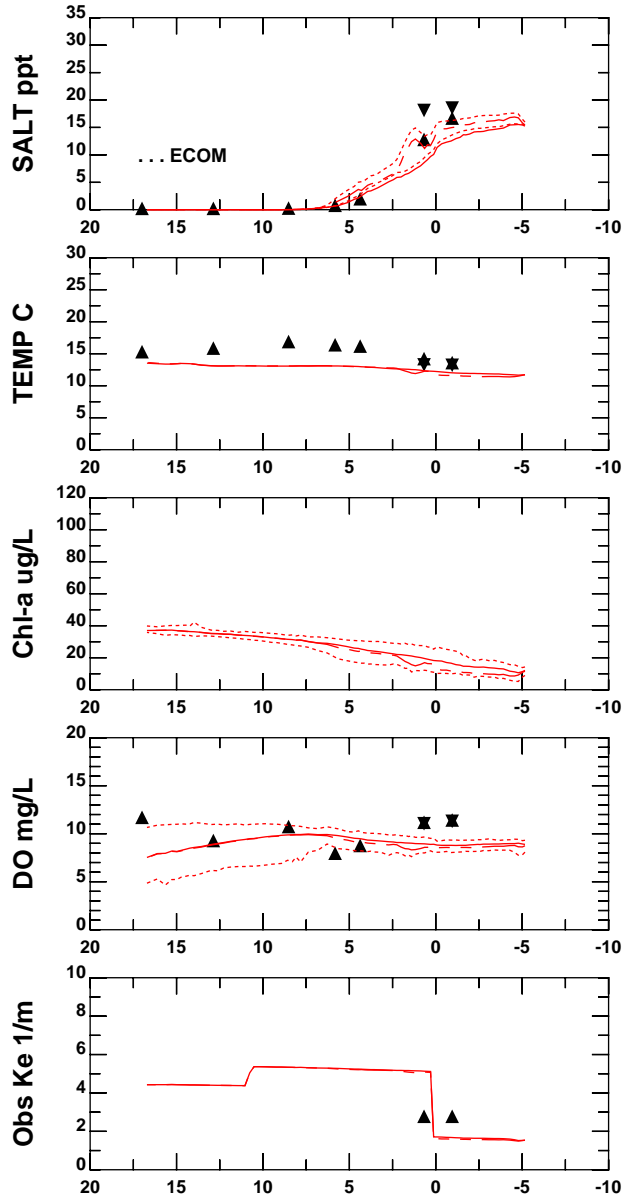


DATA  
NJHDG Apr 27, 2006

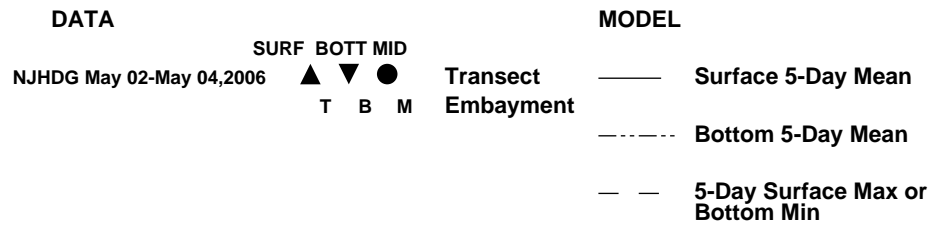
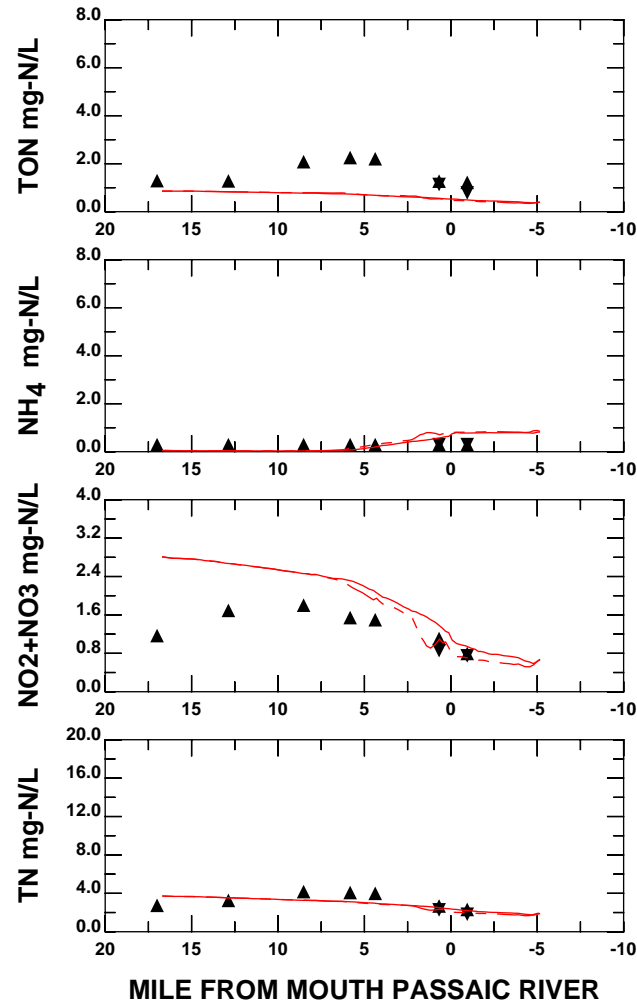
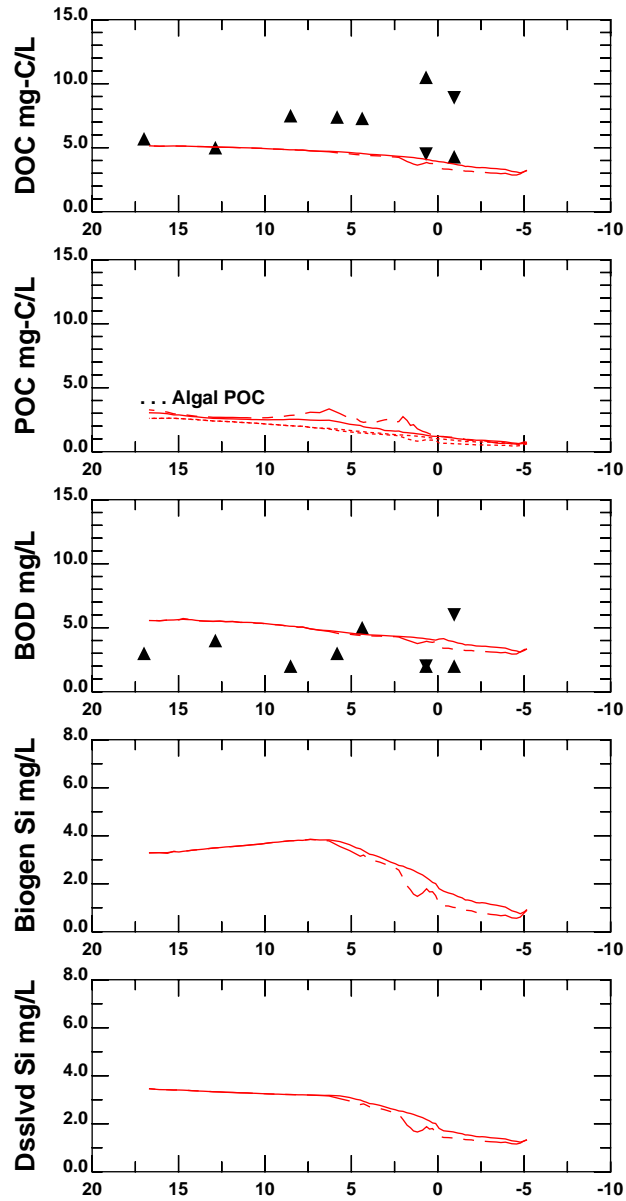
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

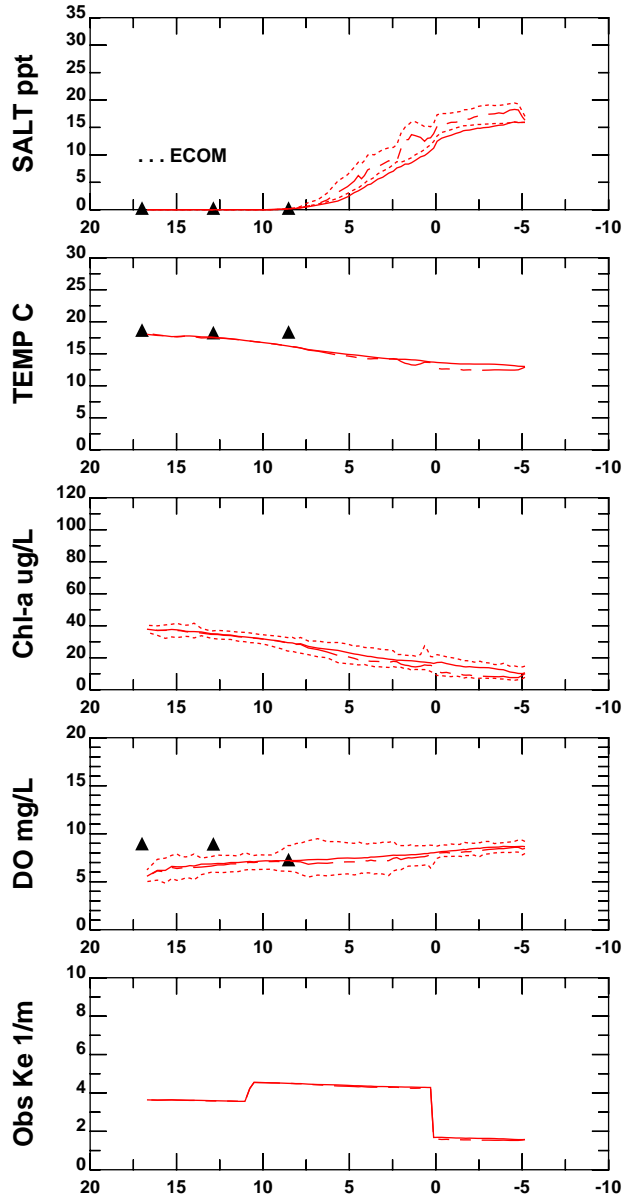
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

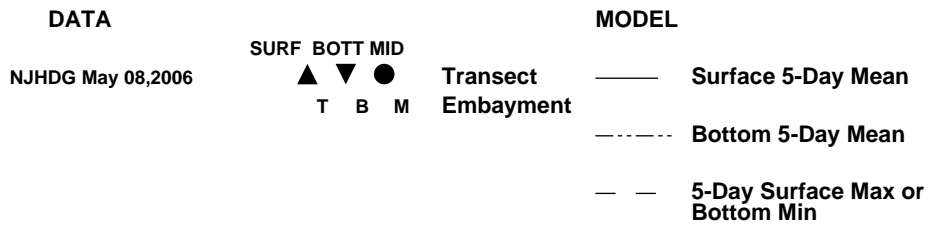
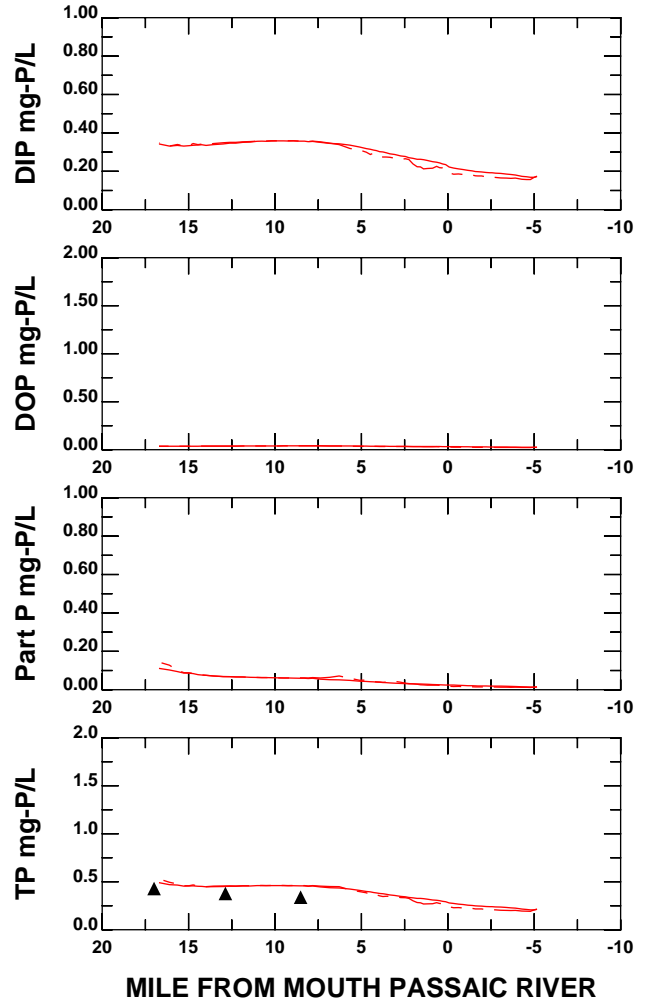


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

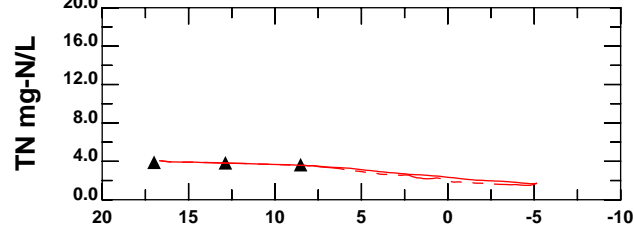
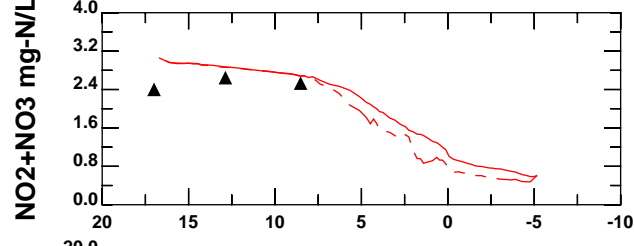
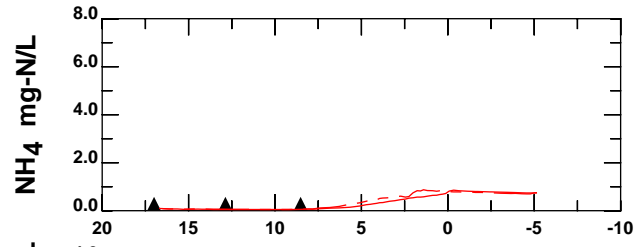
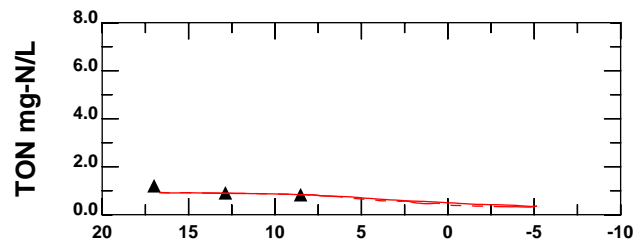
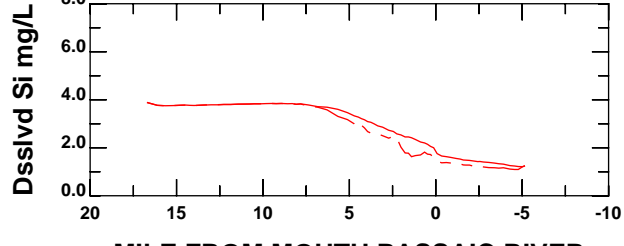
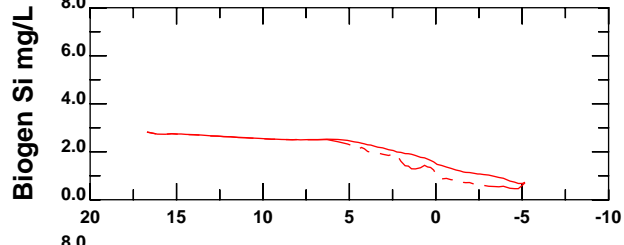
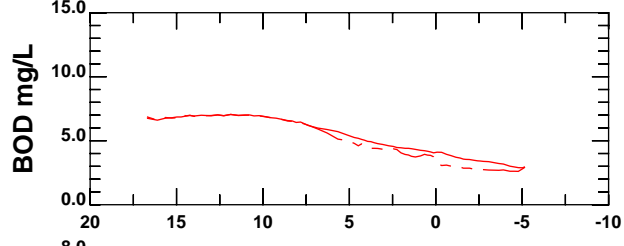
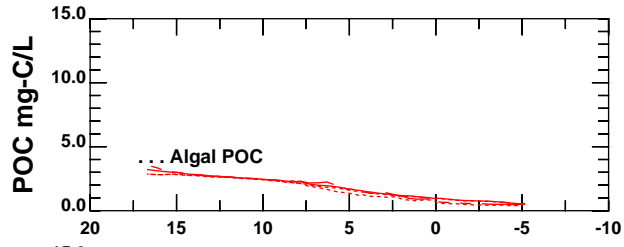
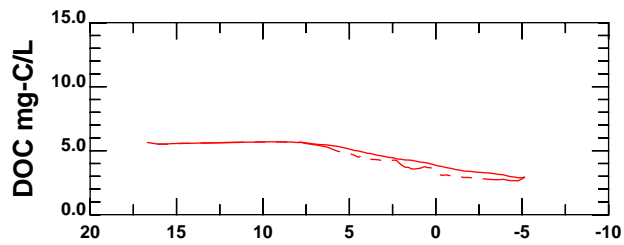


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506







DATA  
NJHDG May 08,2006

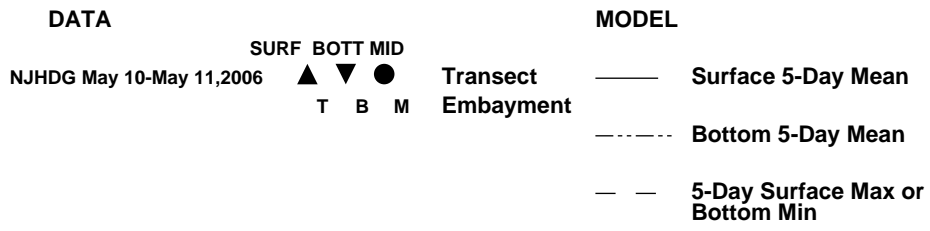
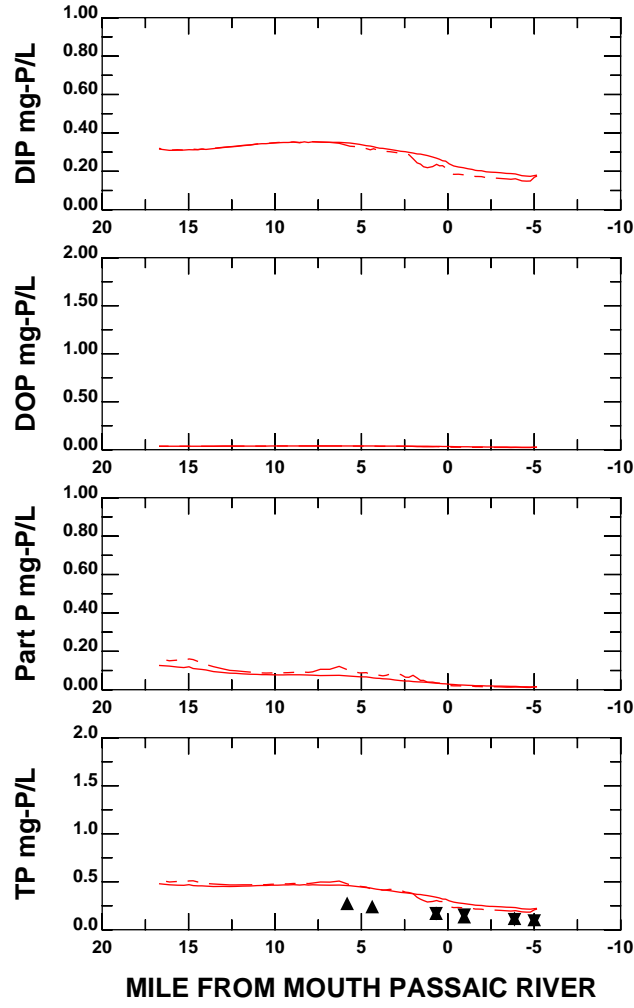
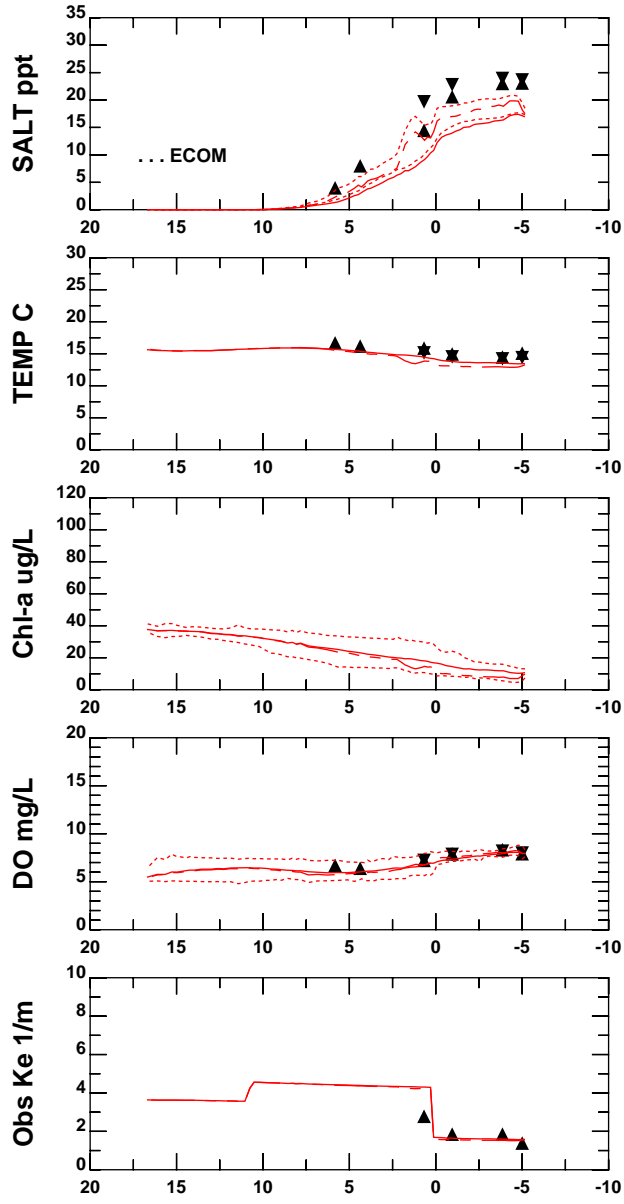
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

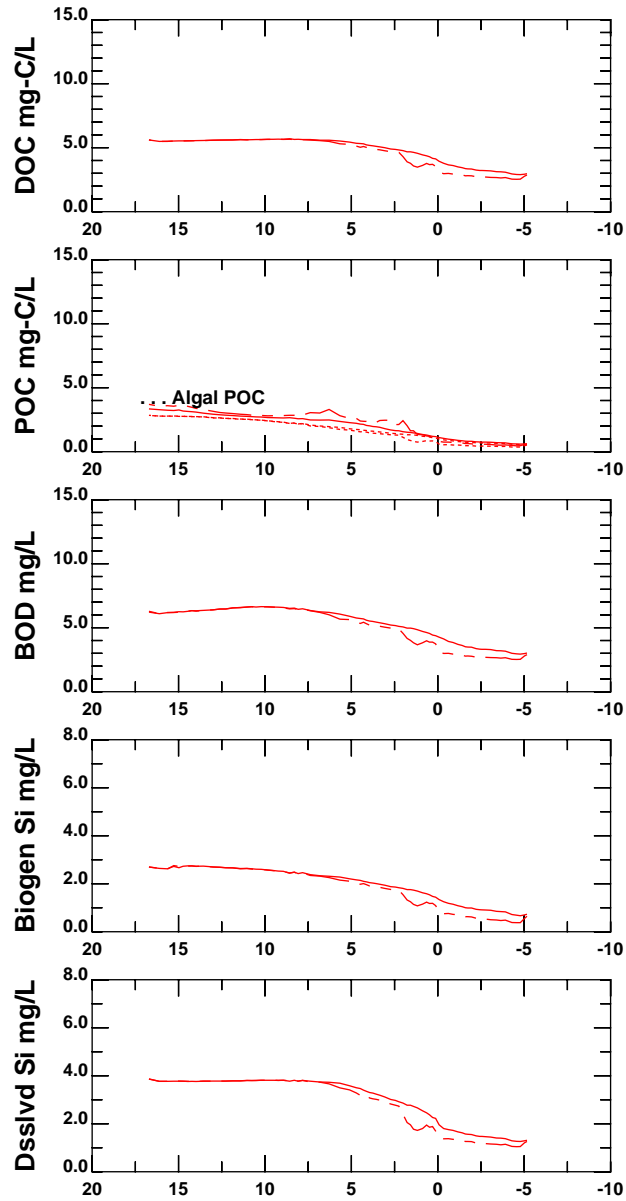
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



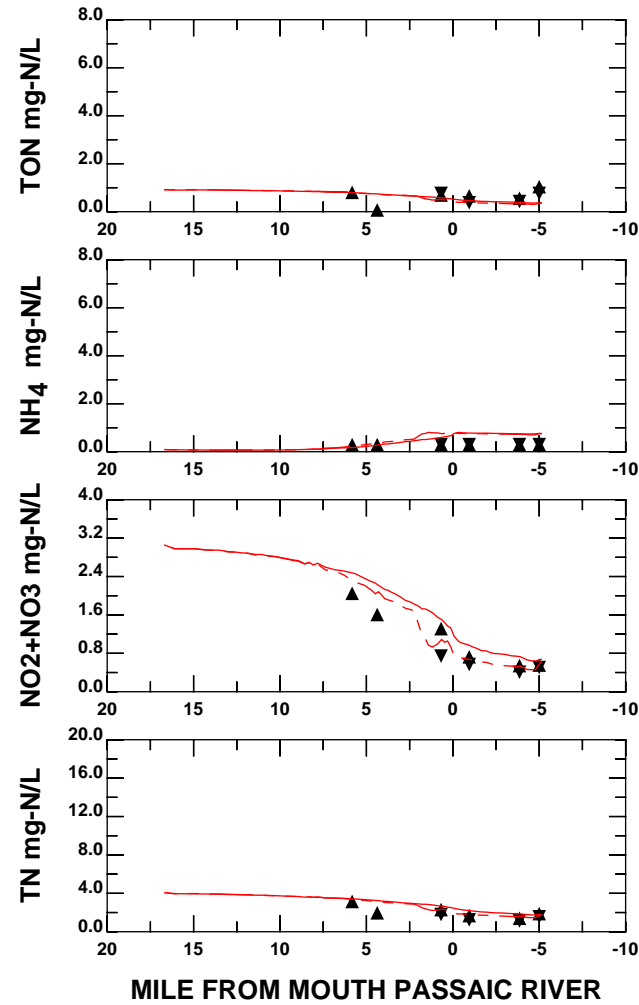
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



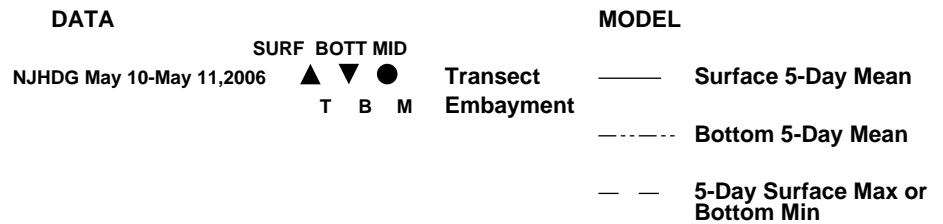
MILE FROM MOUTH PASSAIC RIVER

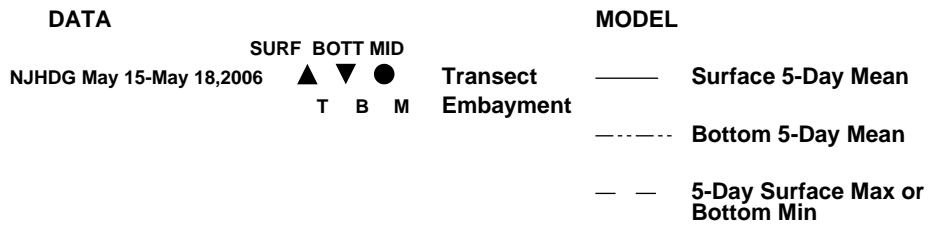
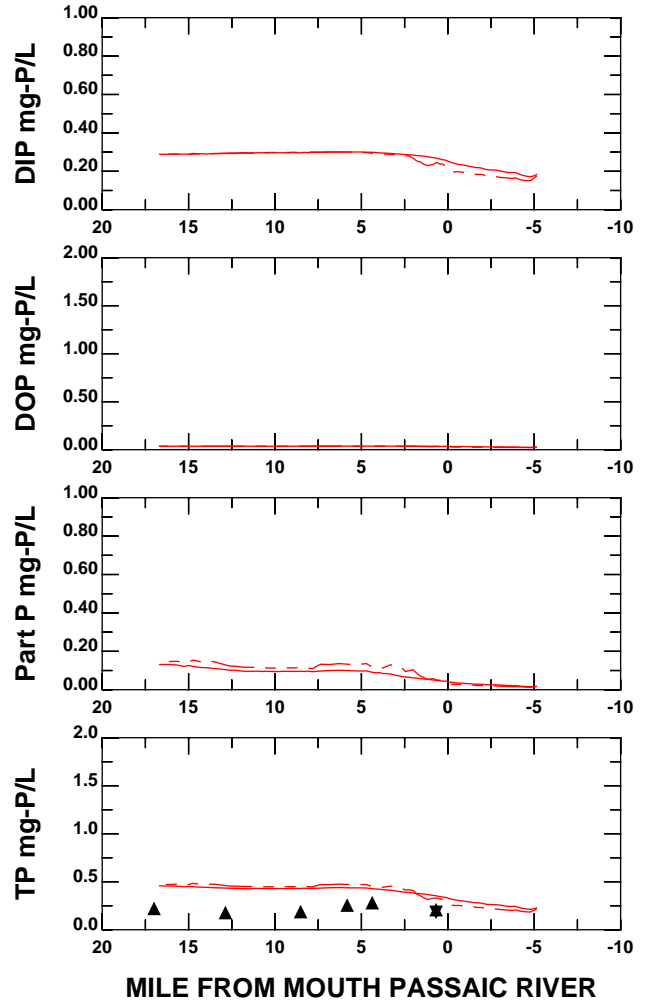
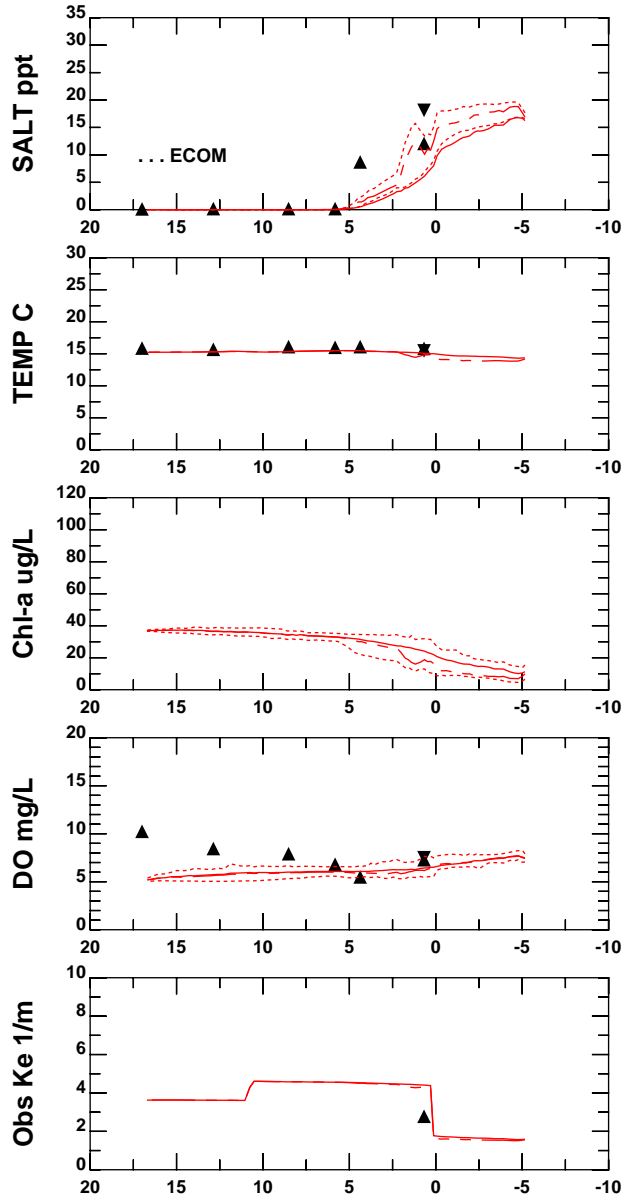
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

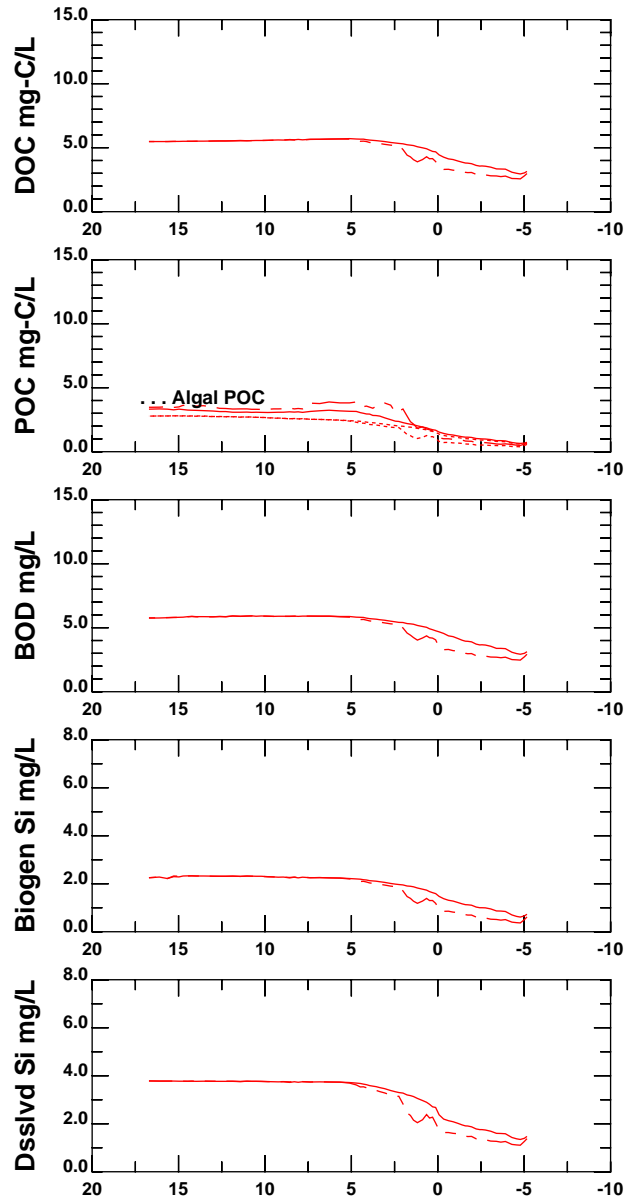


MILE FROM MOUTH PASSAIC RIVER

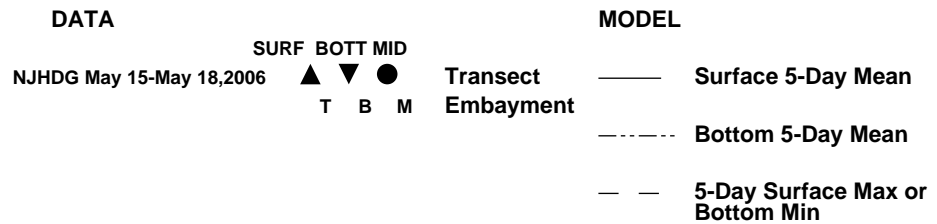
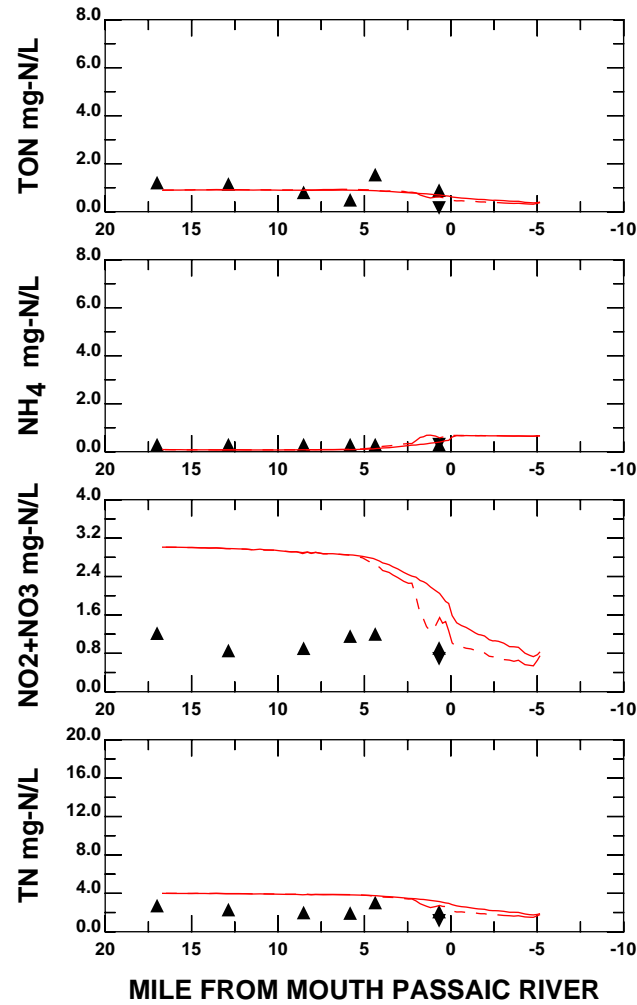


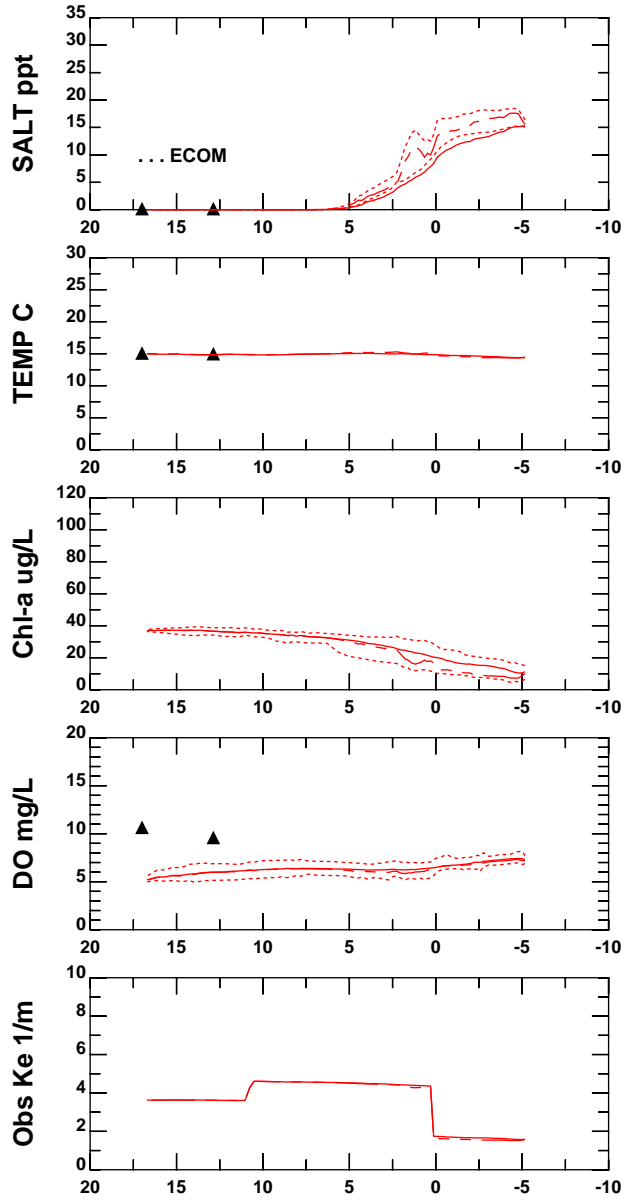


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

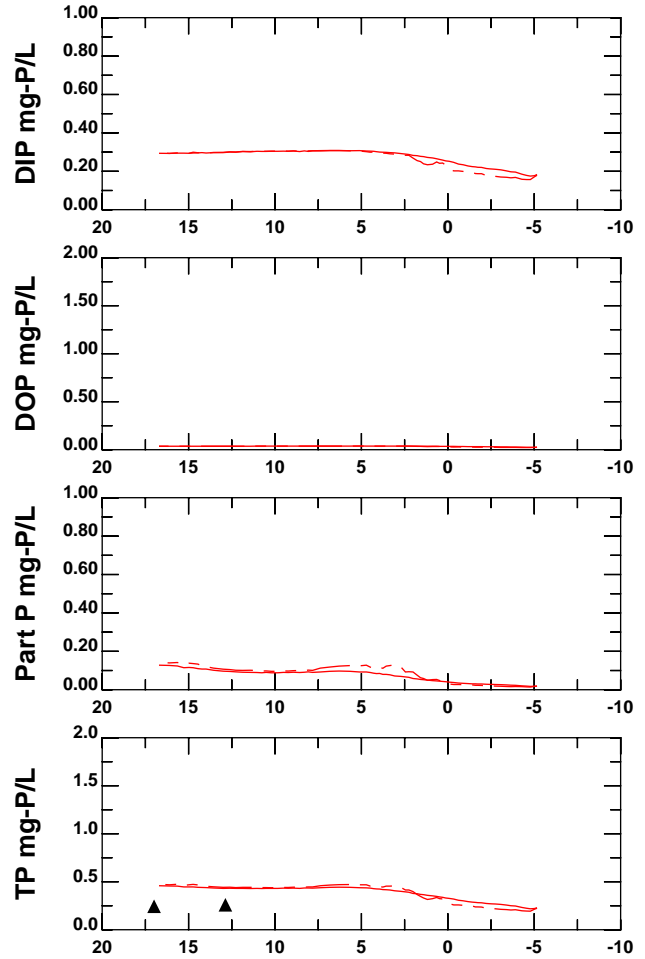


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506





MILE FROM MOUTH PASSAIC RIVER



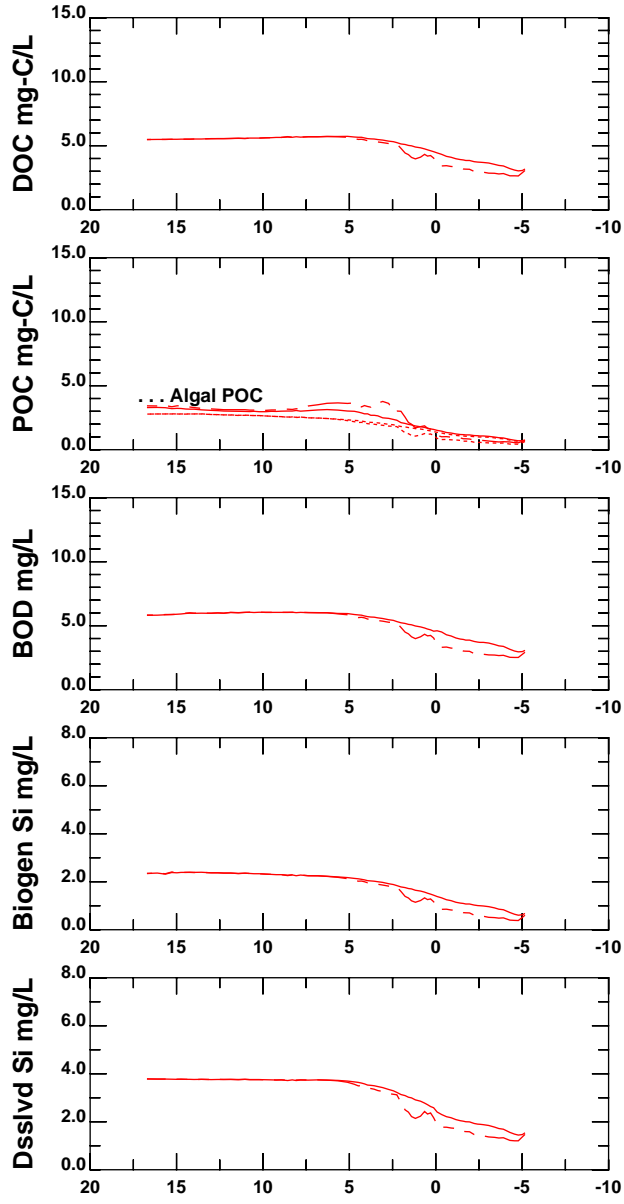
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG May 23,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

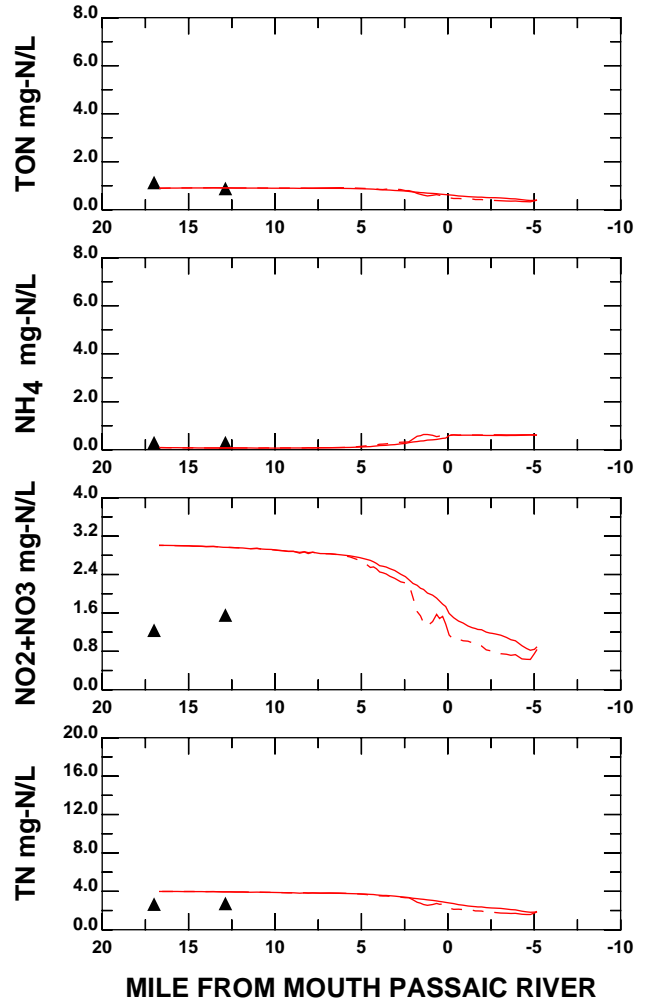
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



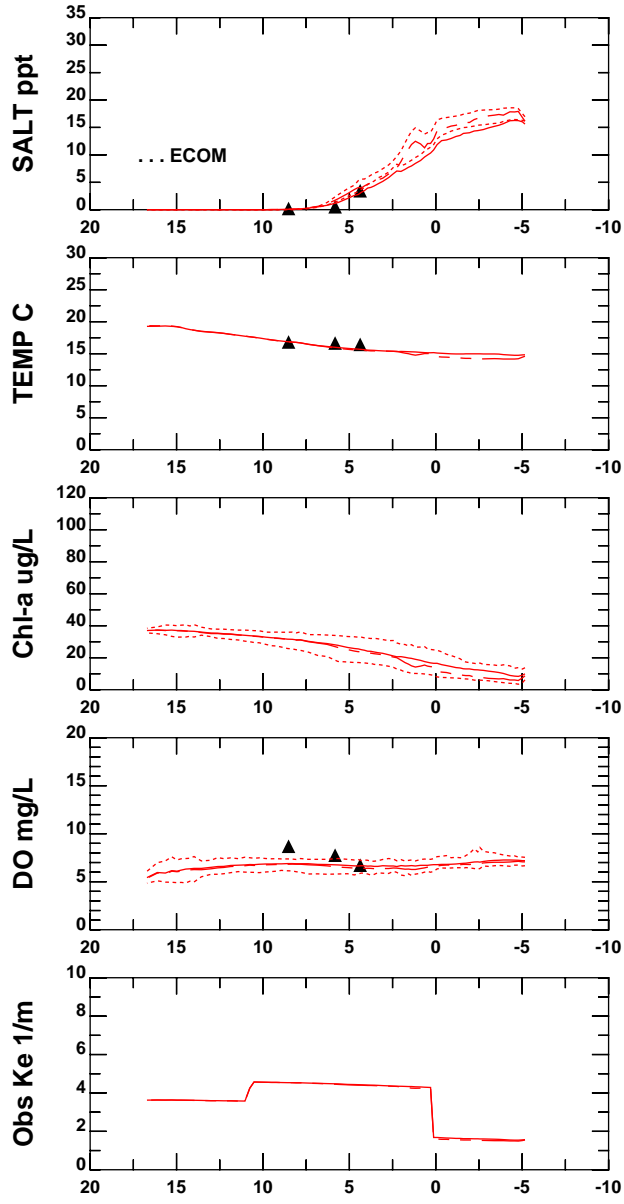
MILE FROM MOUTH PASSAIC RIVER

**DATA**  
 NJHDG May 23,2006

**MODEL**

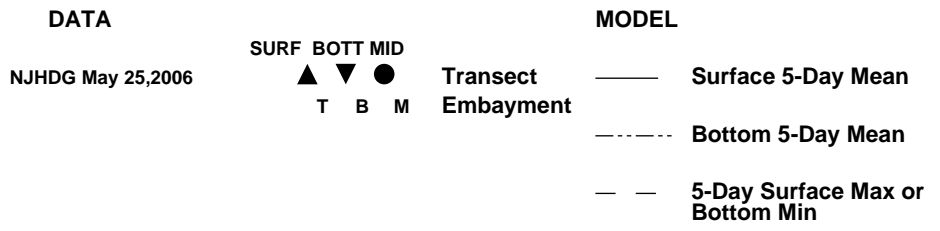
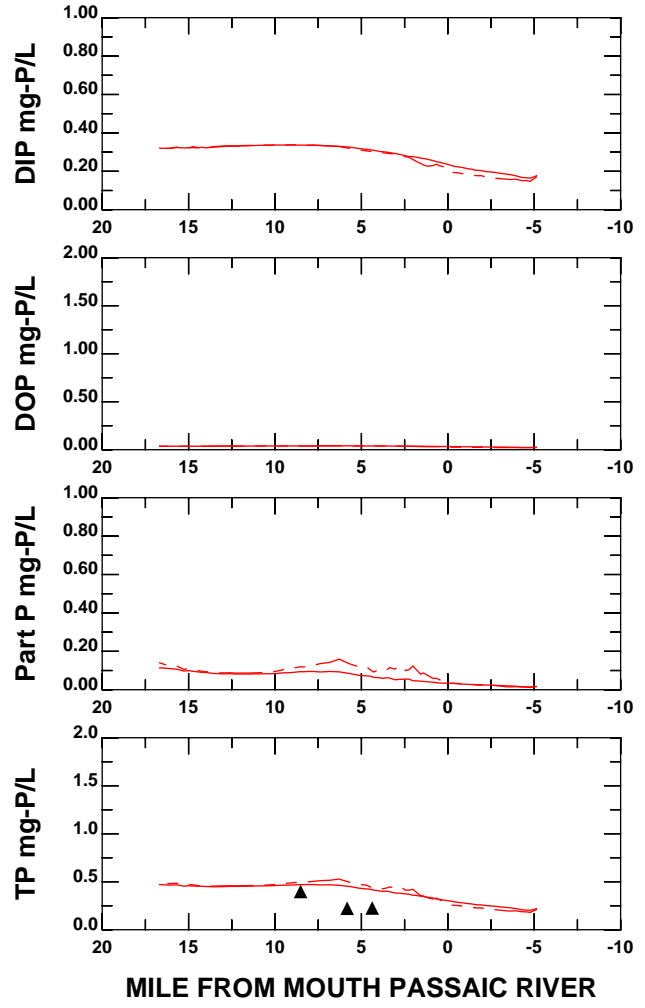
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

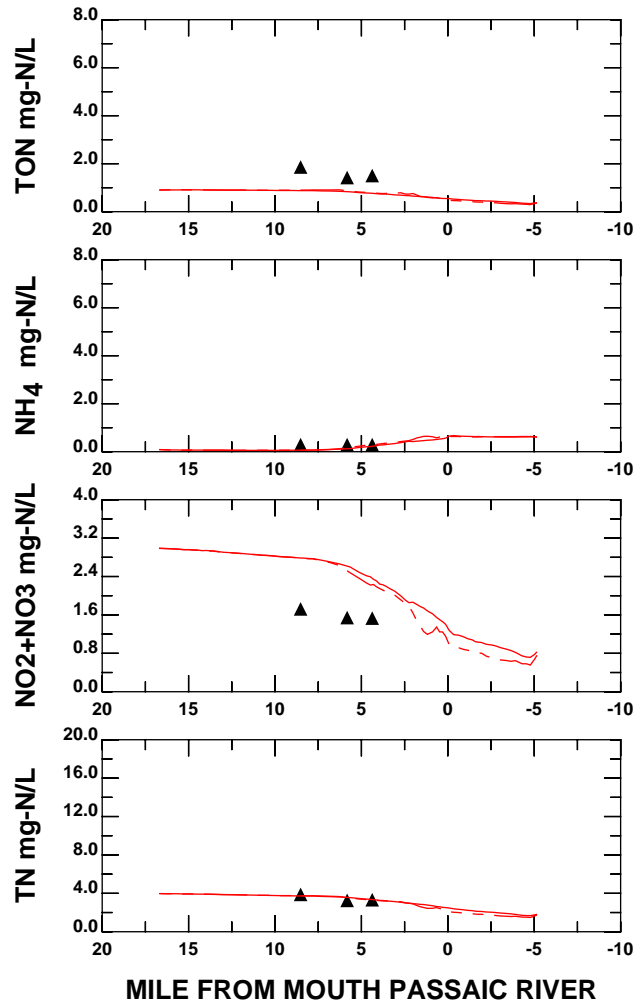
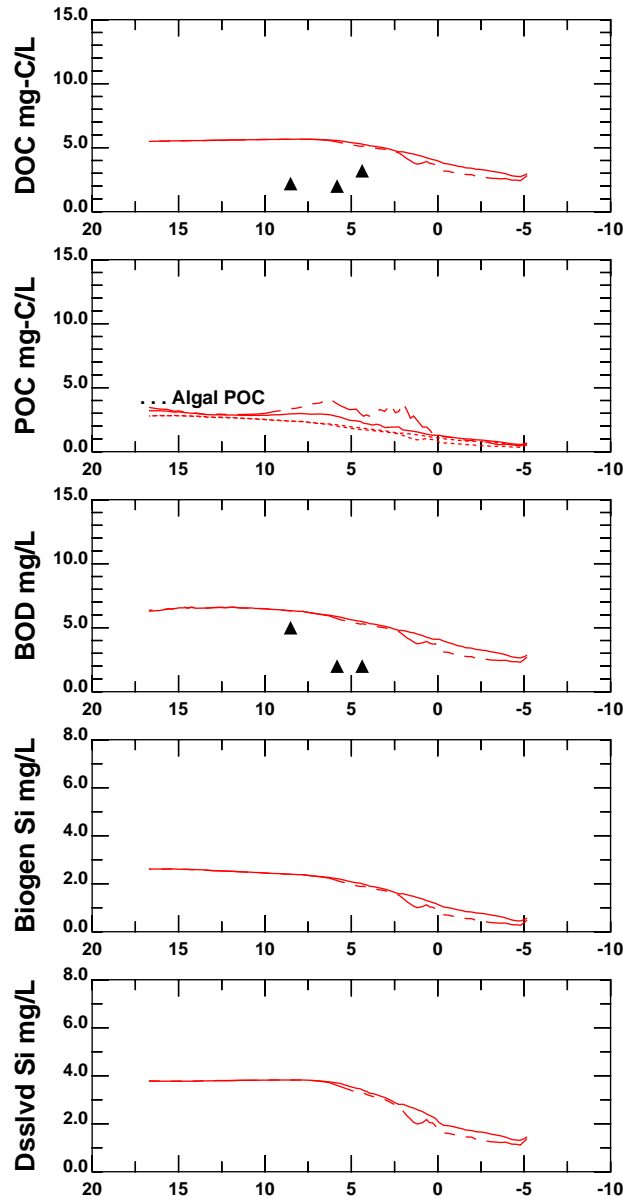


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506







DATA  
NJHGD May 25, 2006

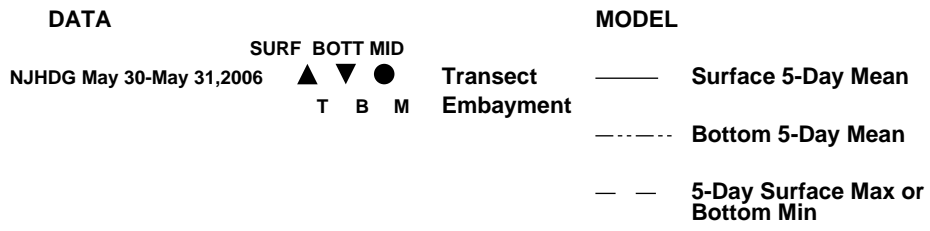
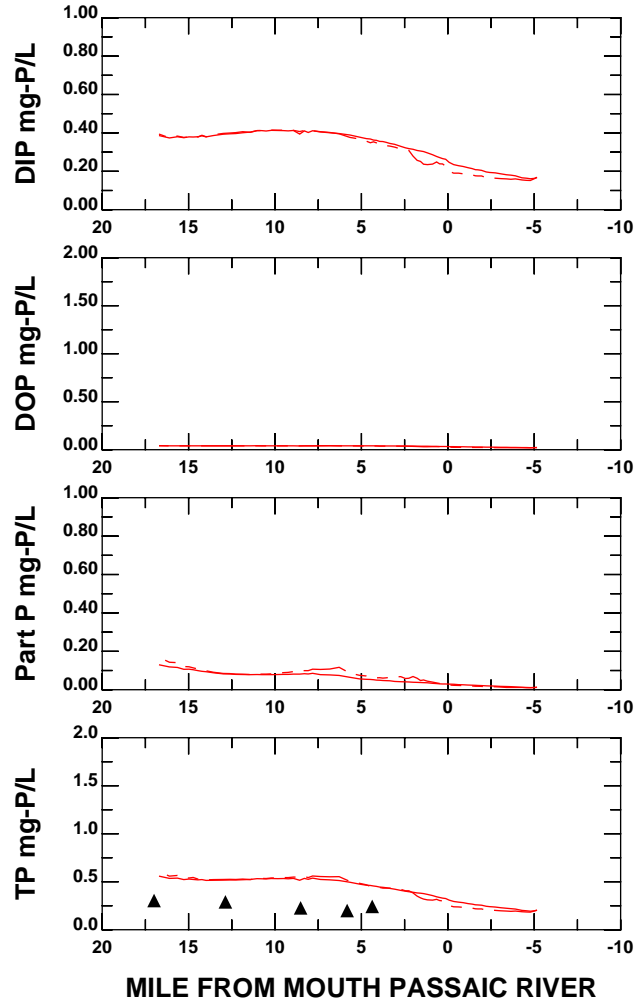
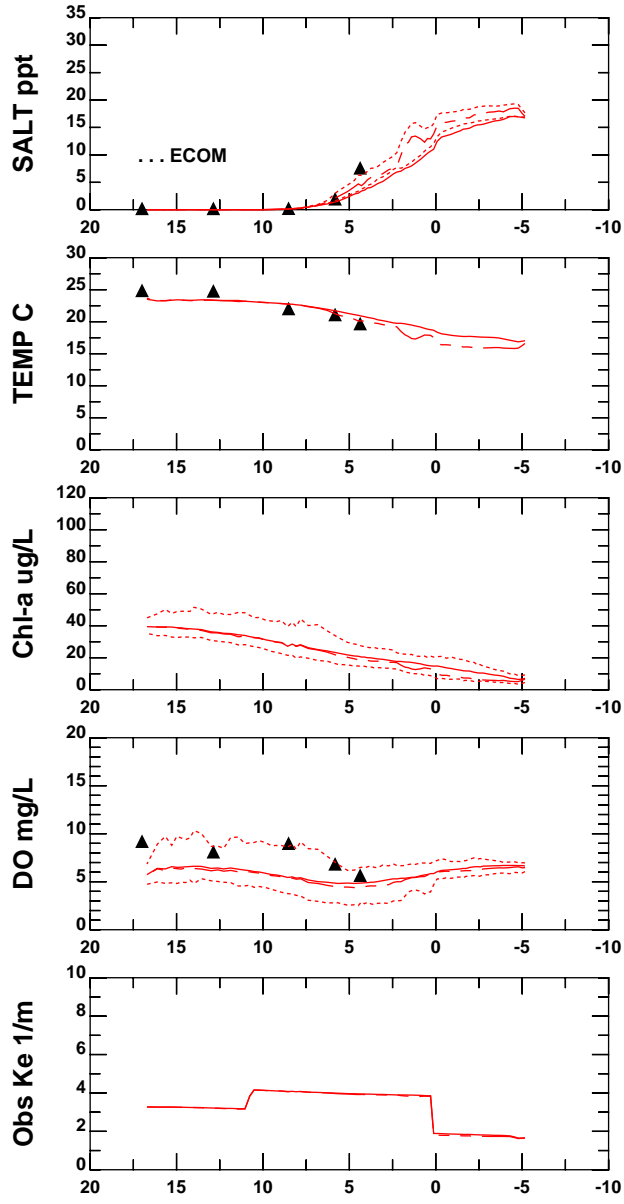
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

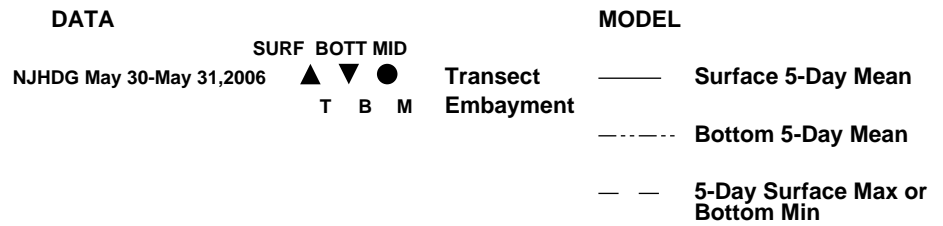
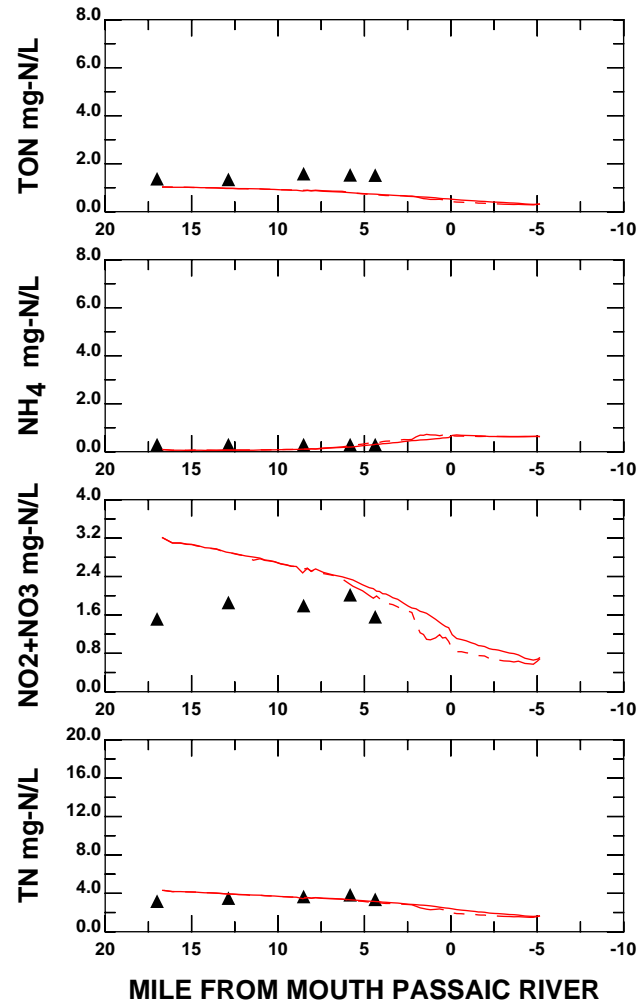
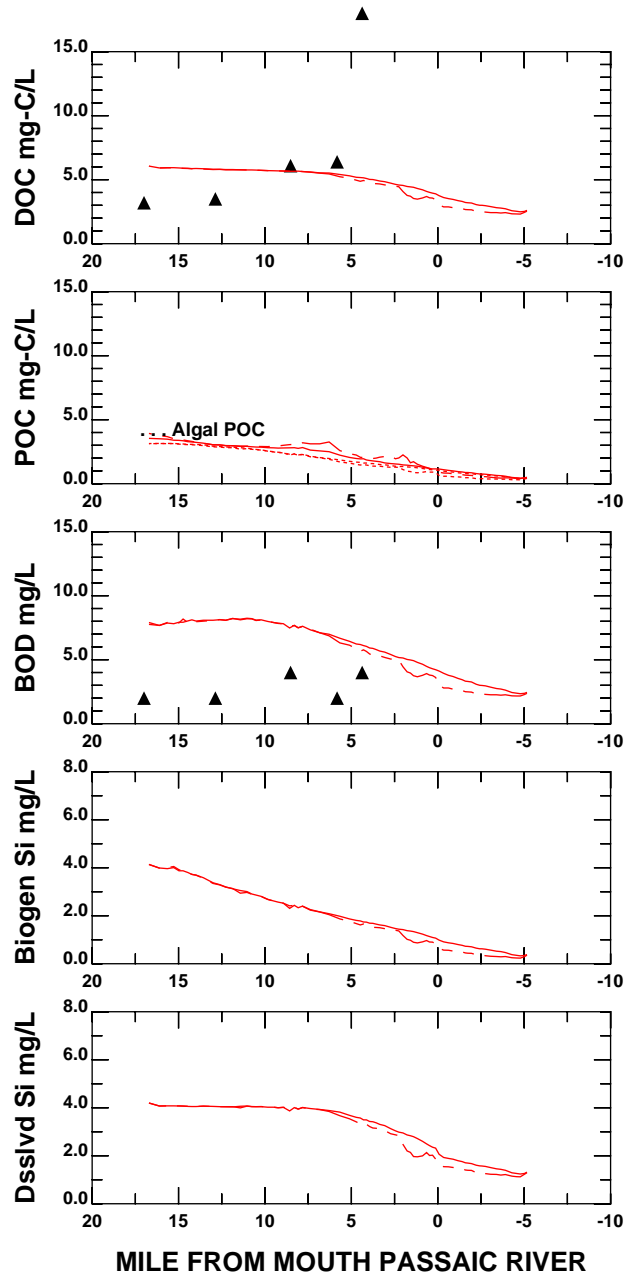
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

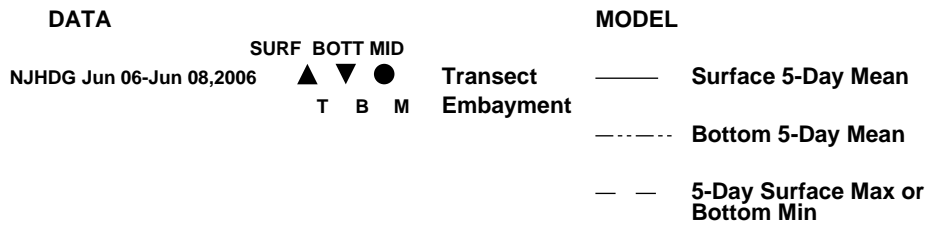
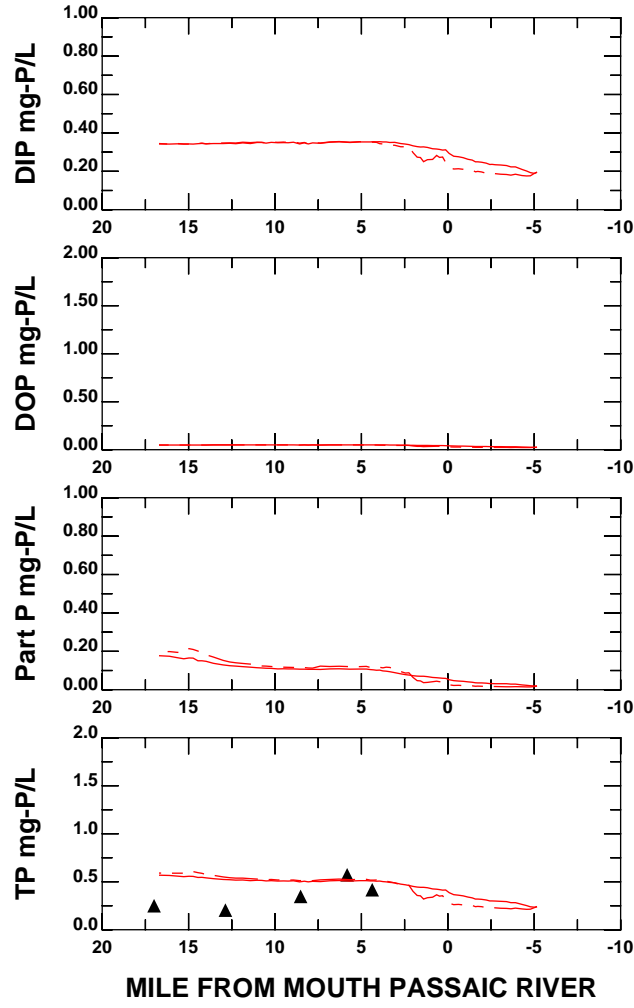
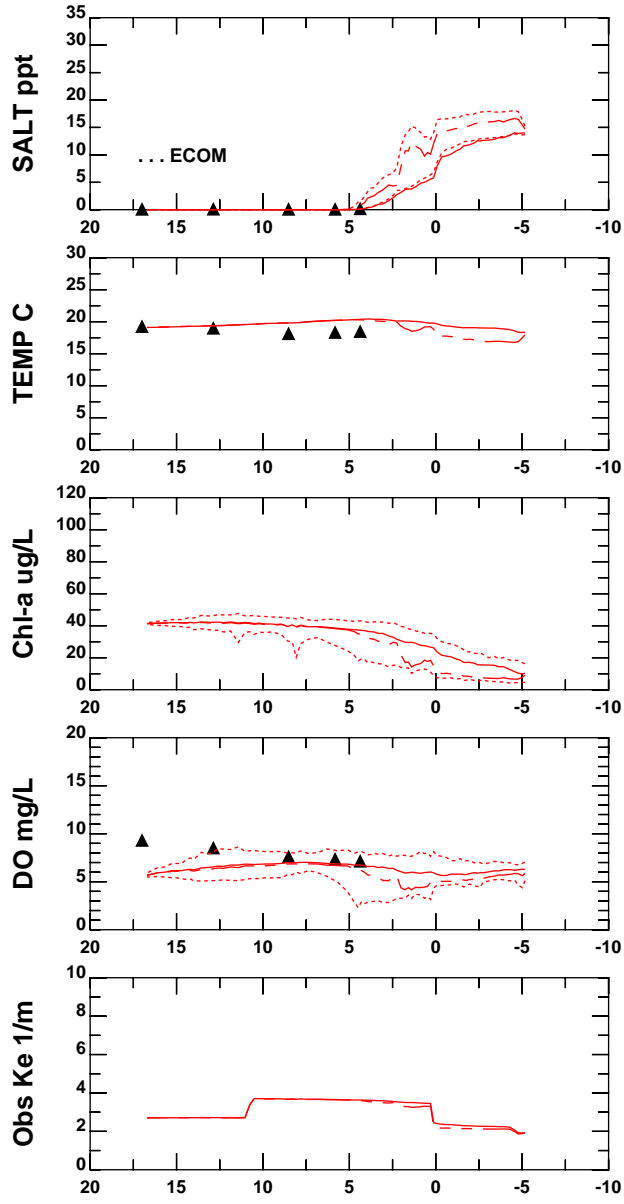
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



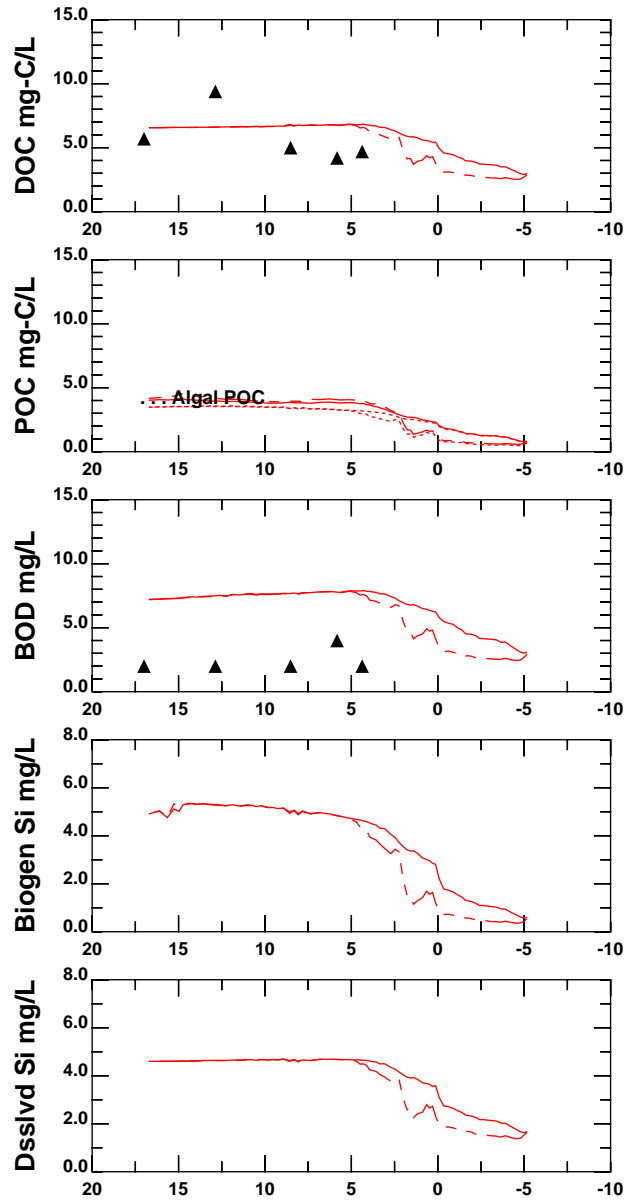
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



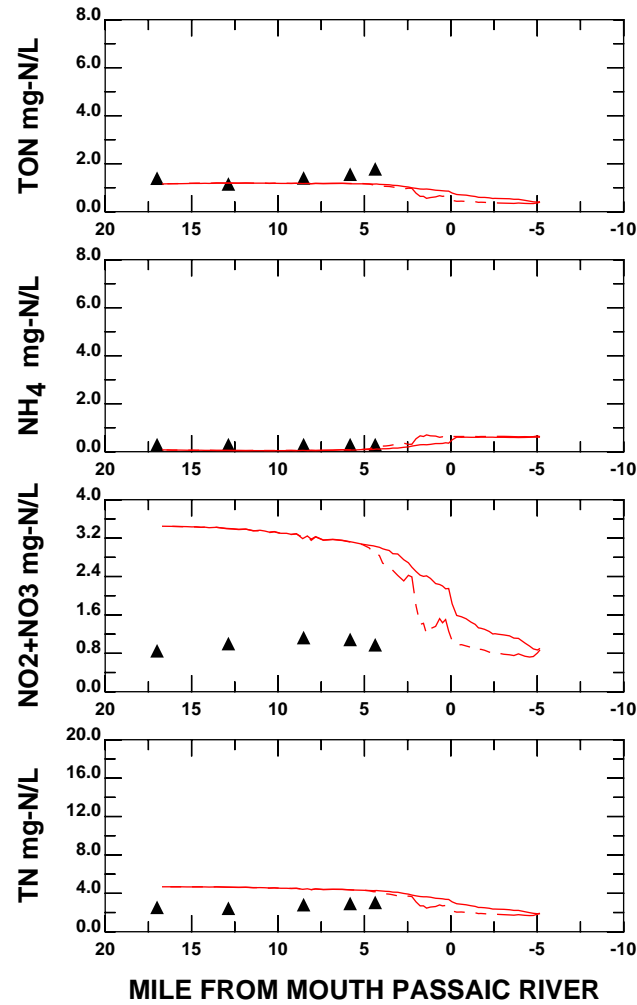
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



DATA

NJHDG Jun 06-Jun 08,2006

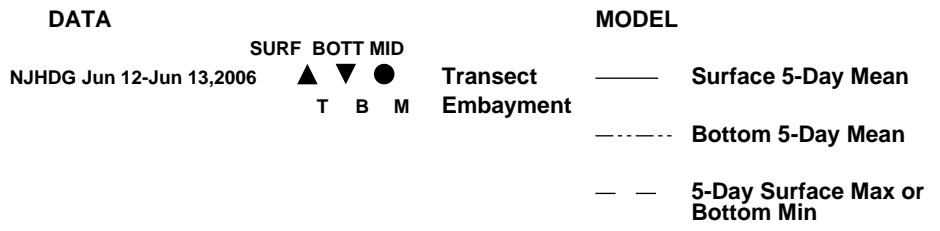
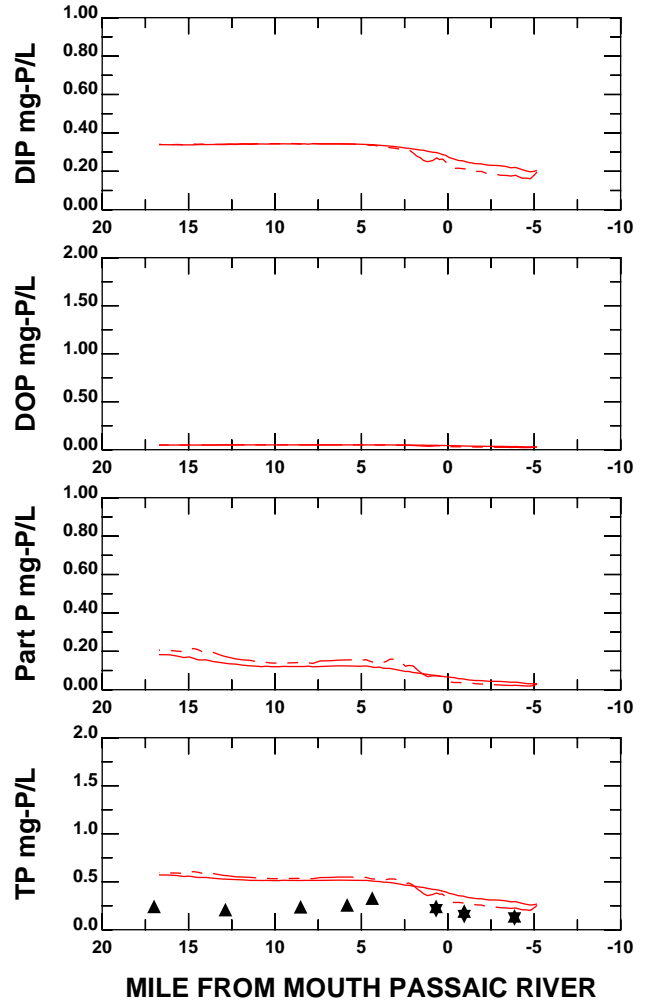
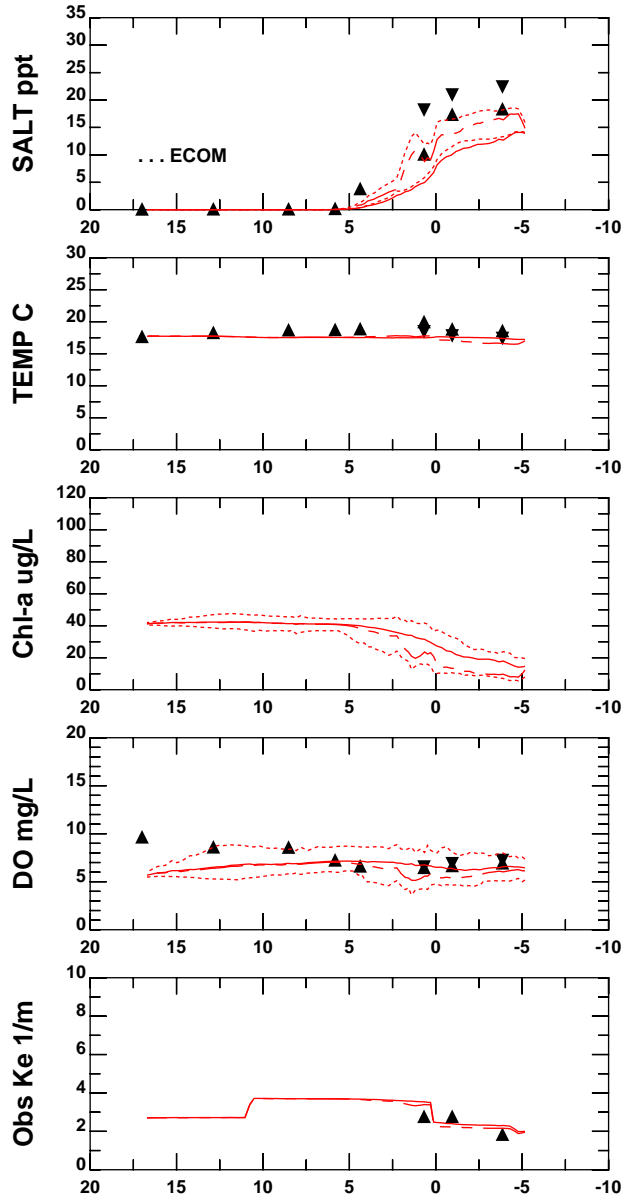
SURF BOTT MID

▲ ▼ ●  
T B M

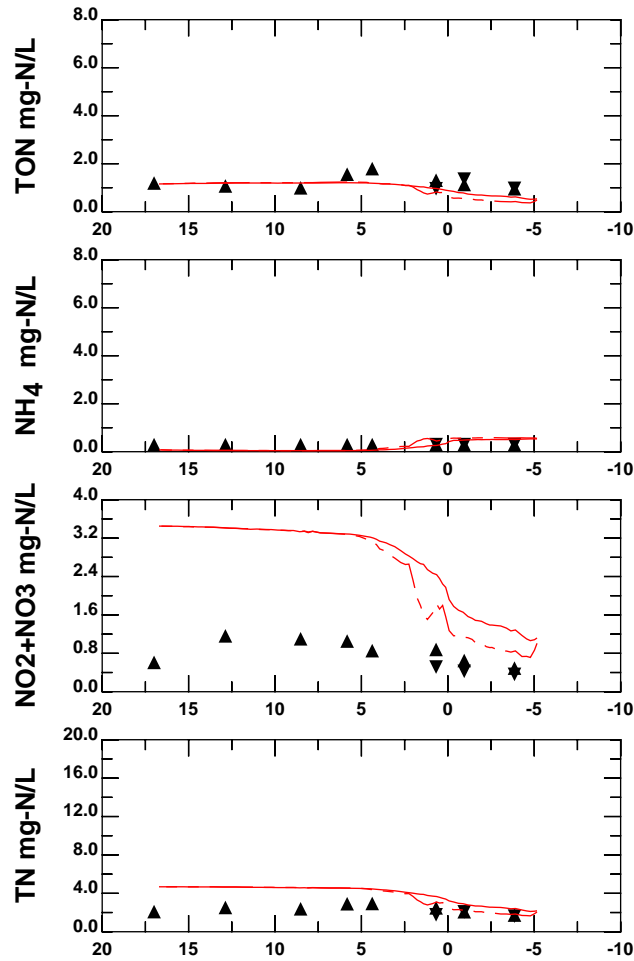
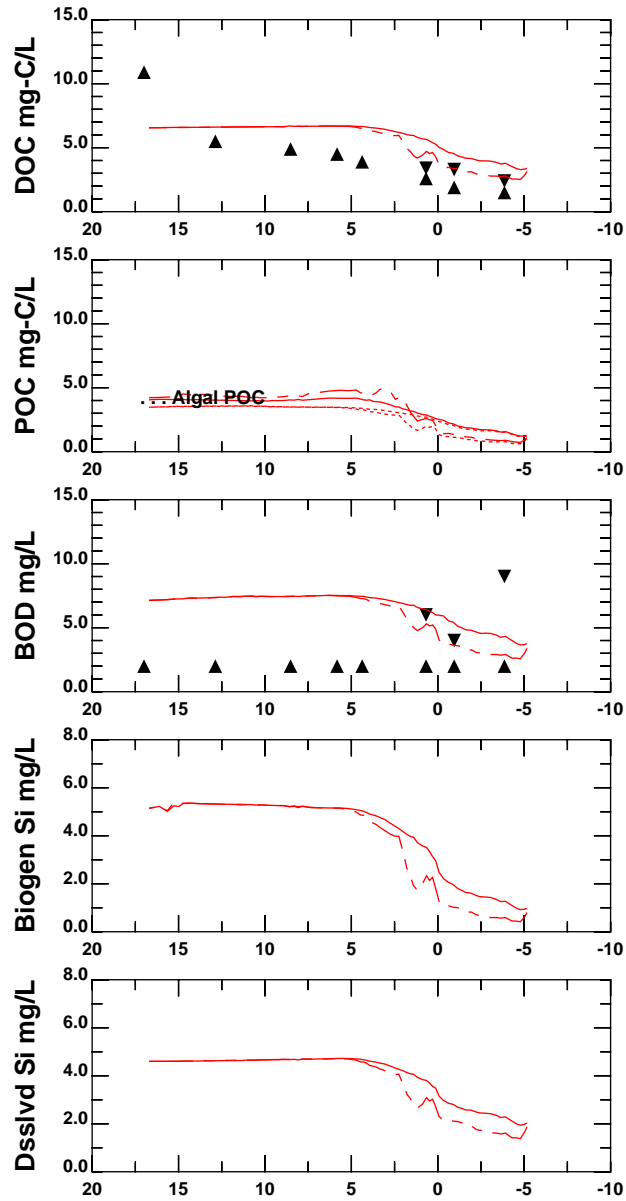
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



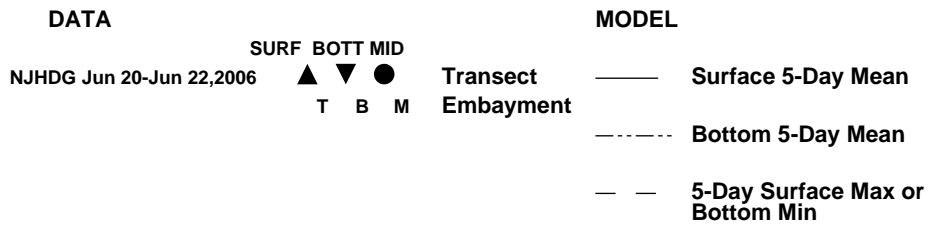
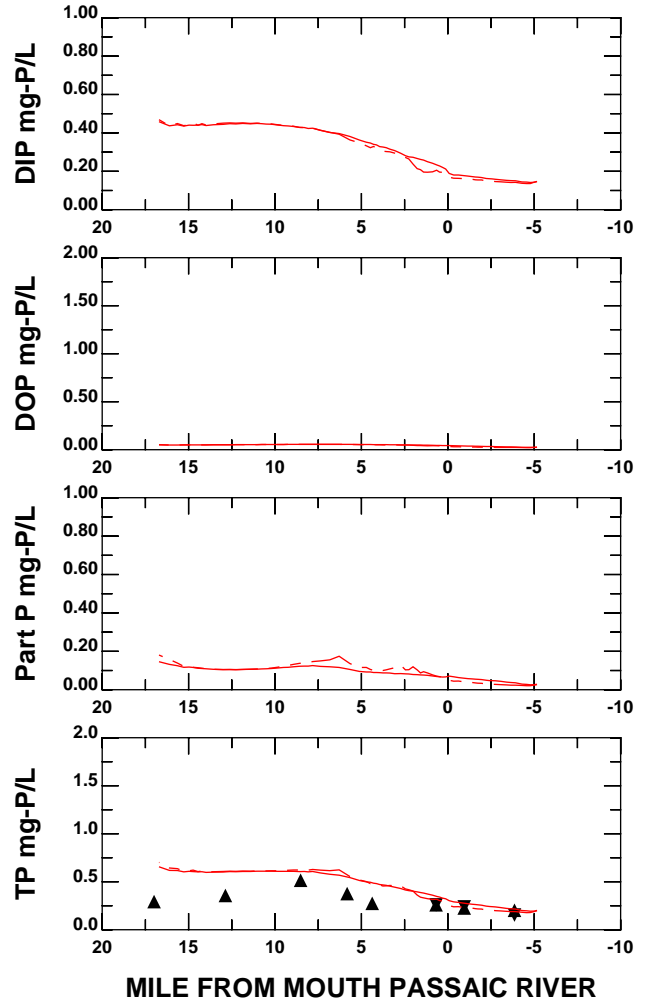
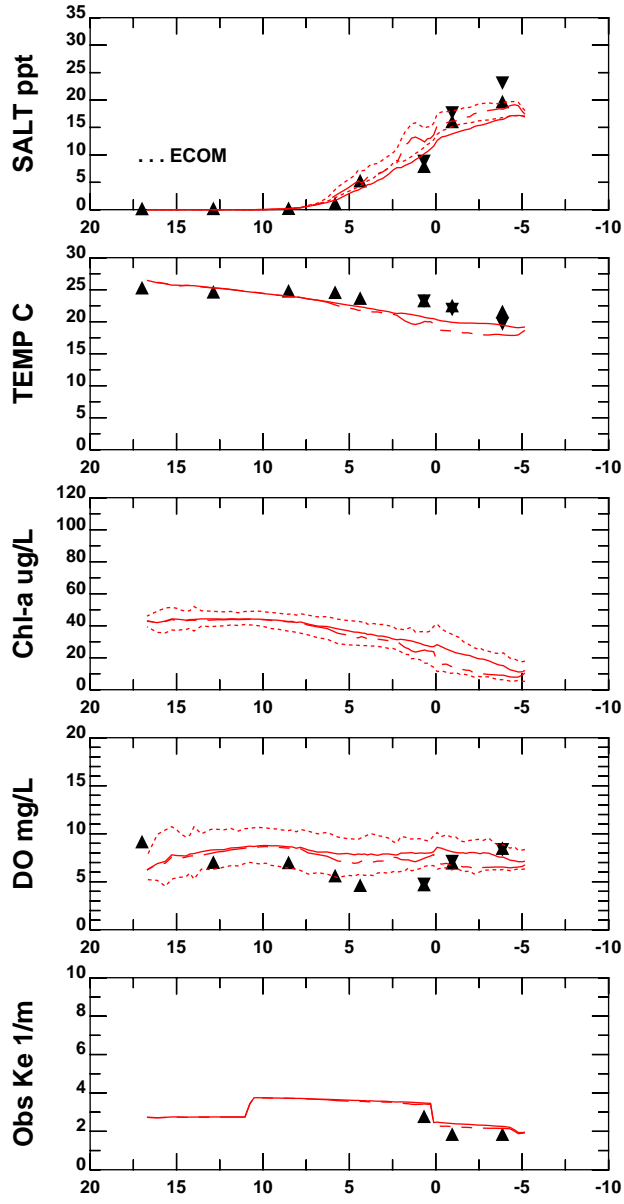
**DATA**  
 NJHDG Jun 12-Jun 13, 2006

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

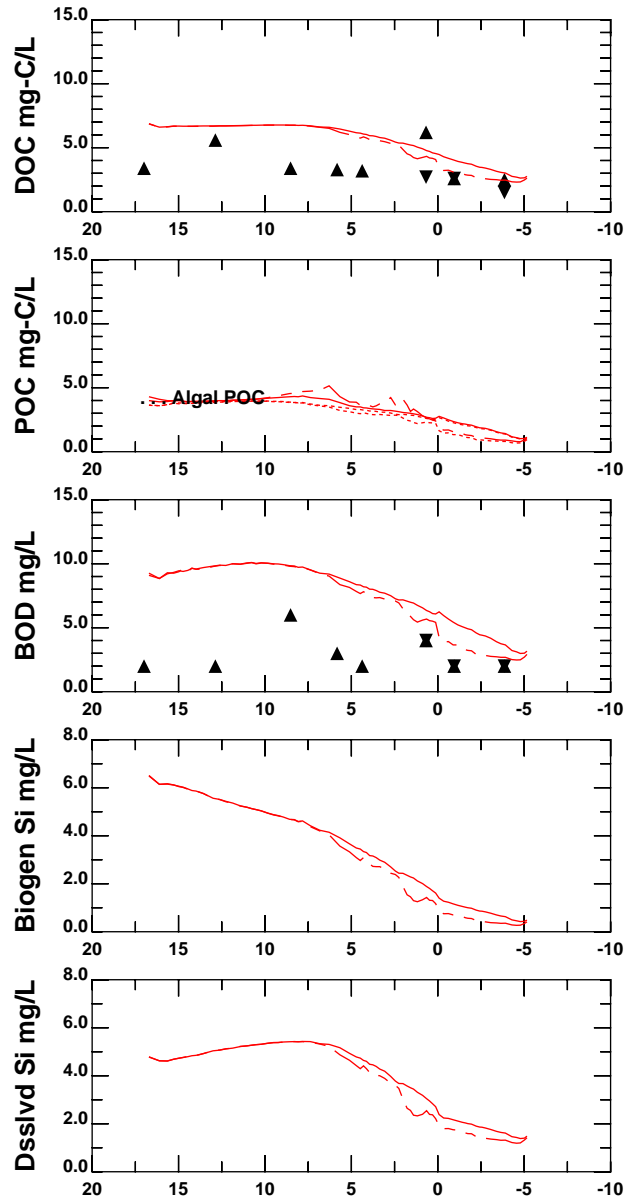
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

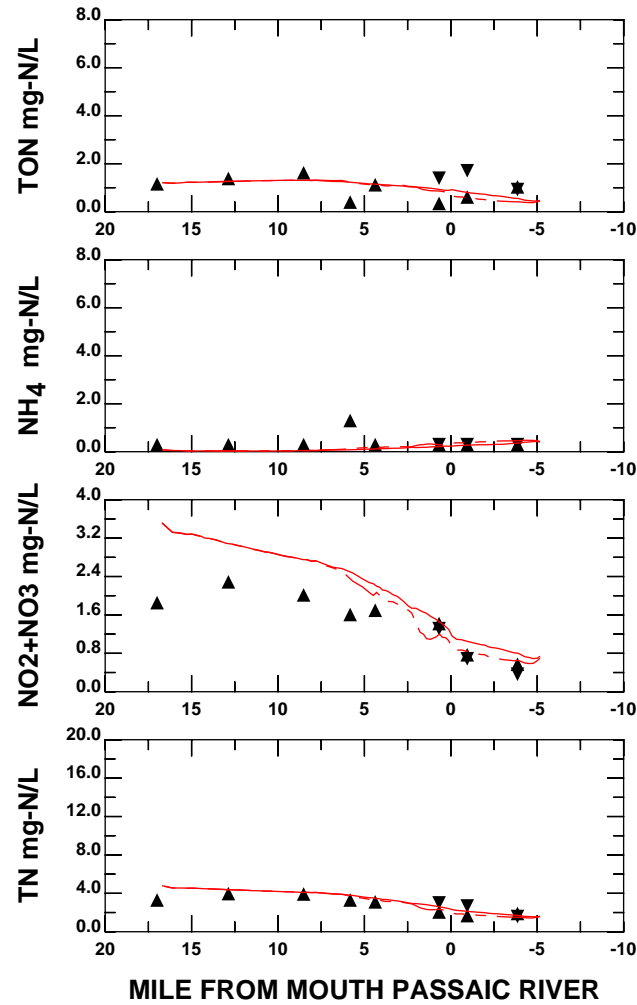




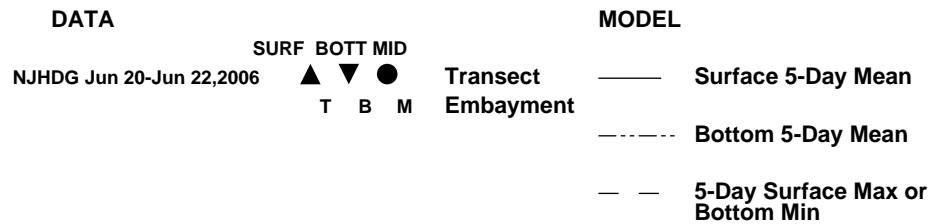
MILE FROM MOUTH PASSAIC RIVER

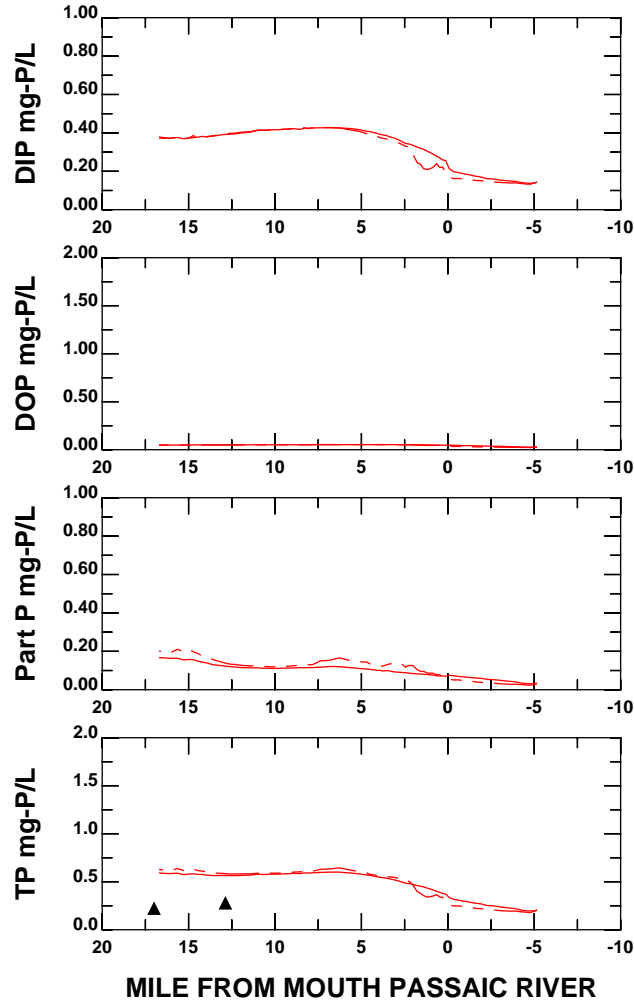
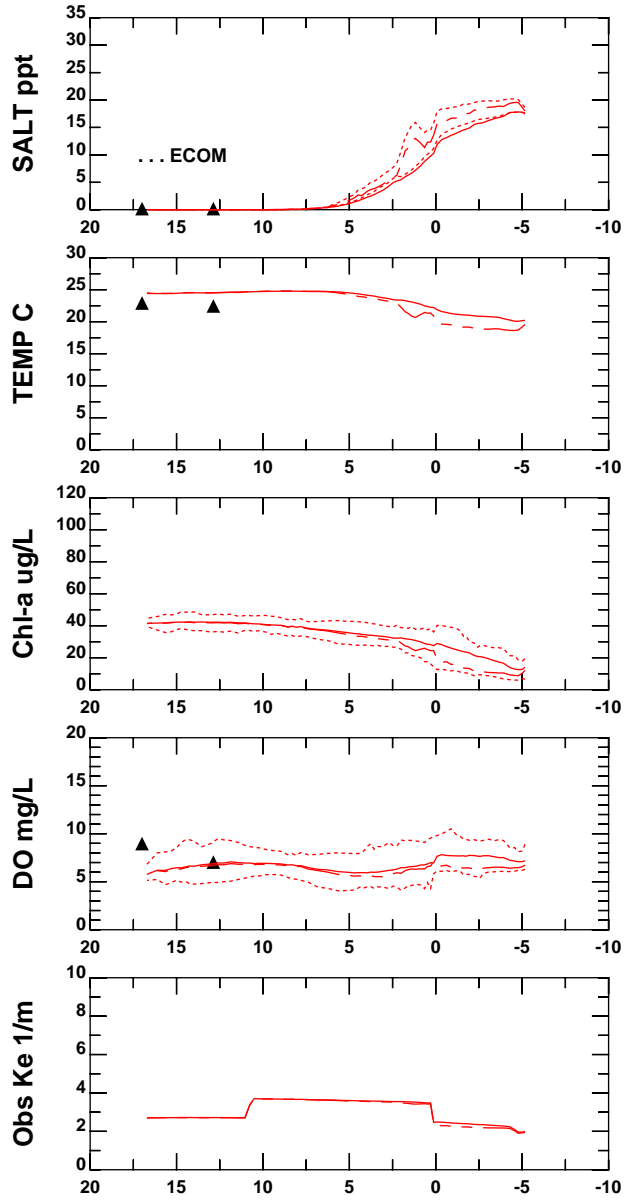
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER





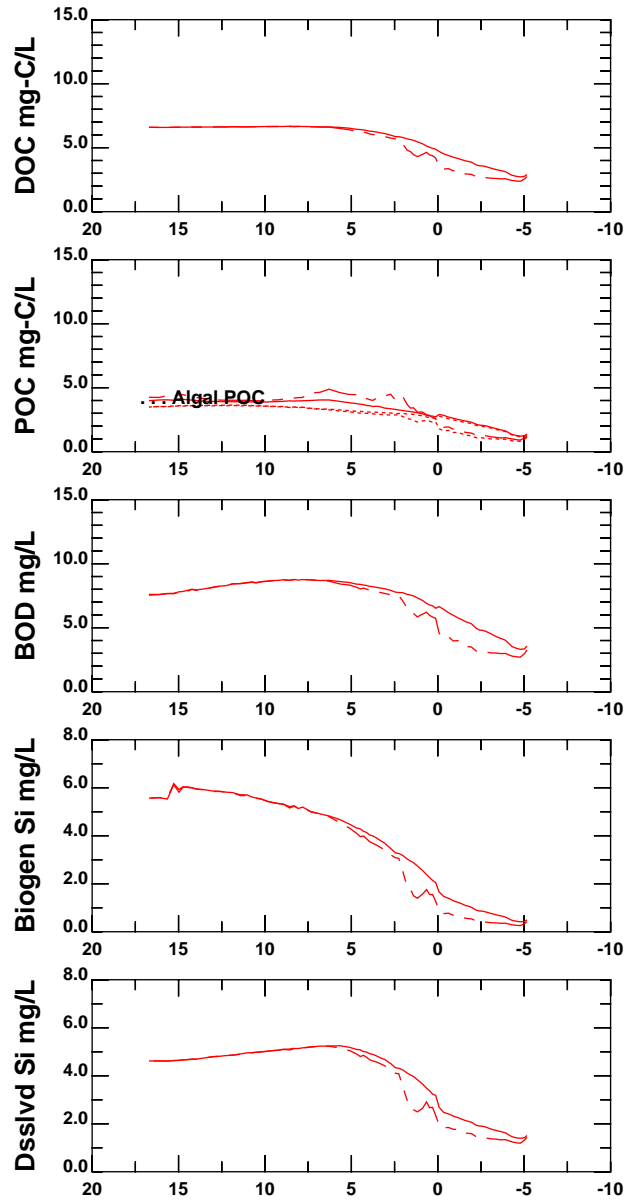
**DATA**  
NJHDG Jun 27,2006

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

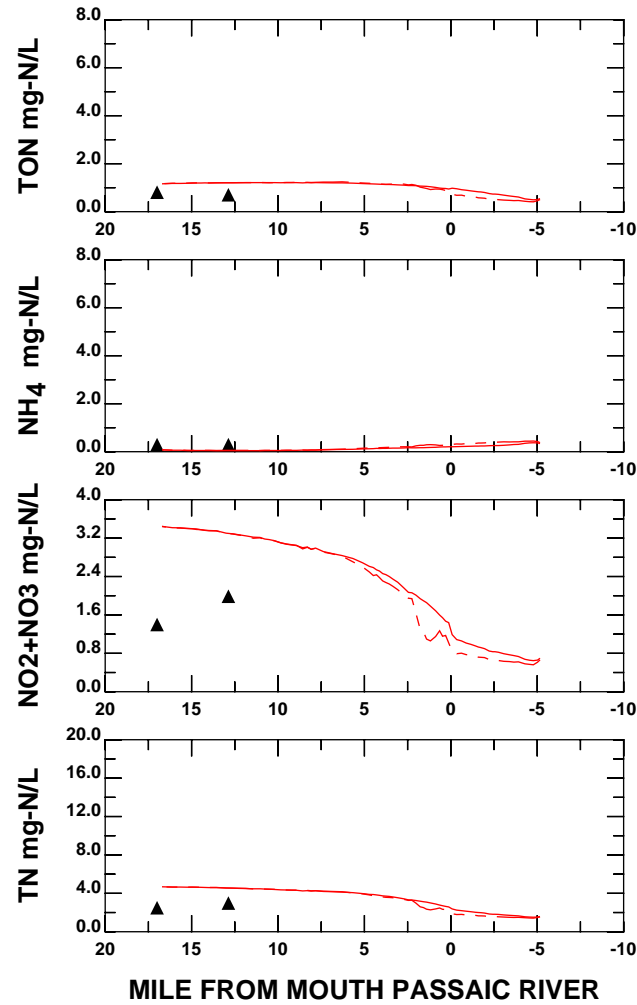
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



DATA

NJHGD Jun 27,2006

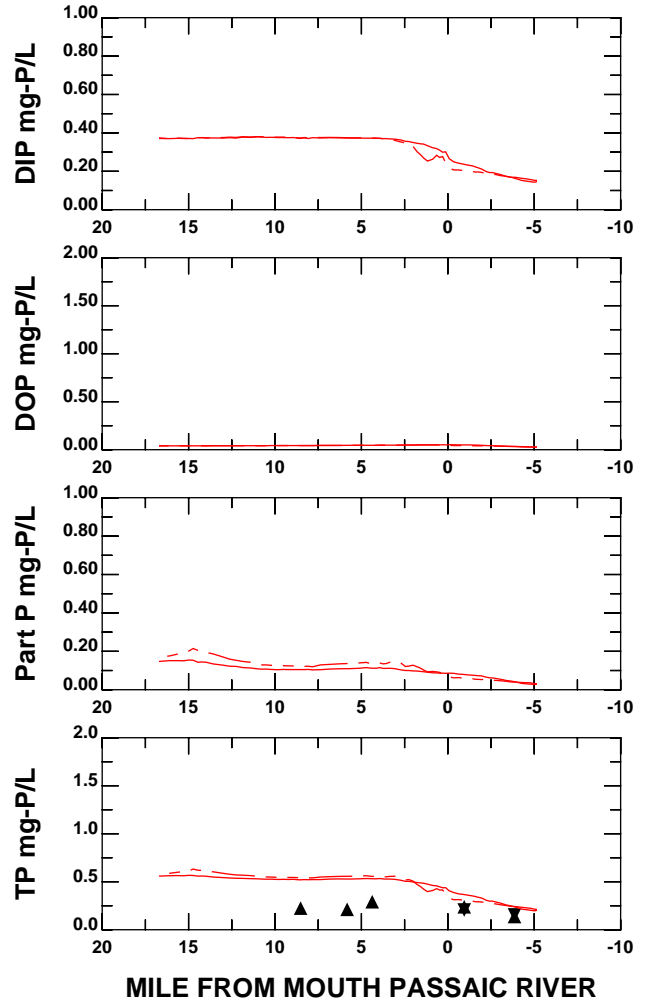
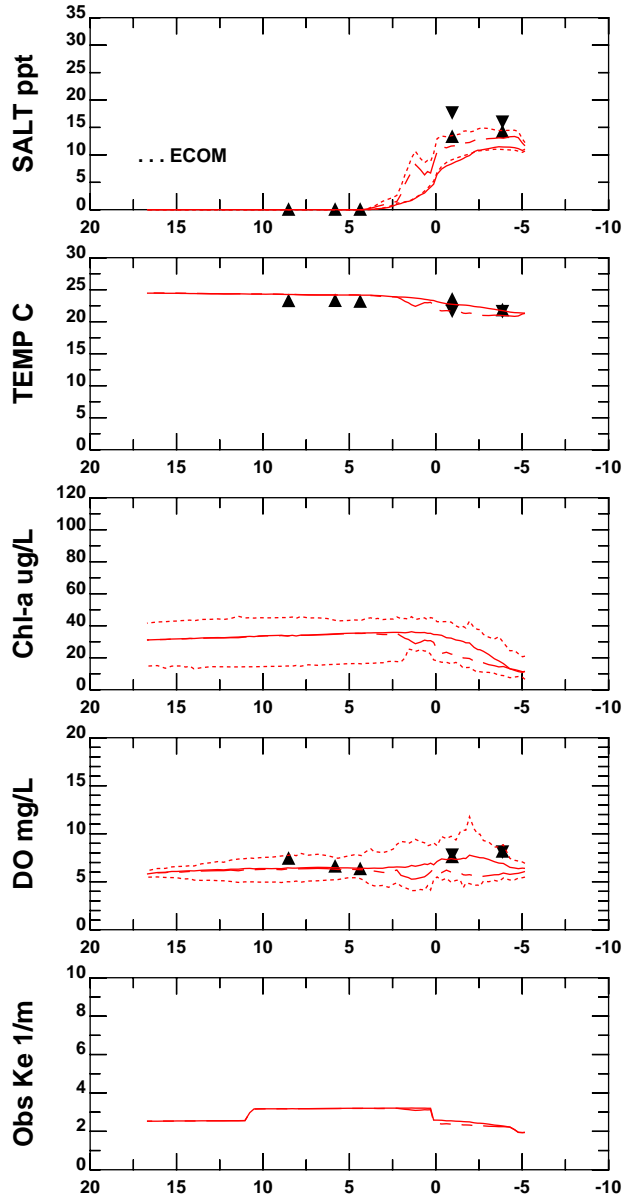
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



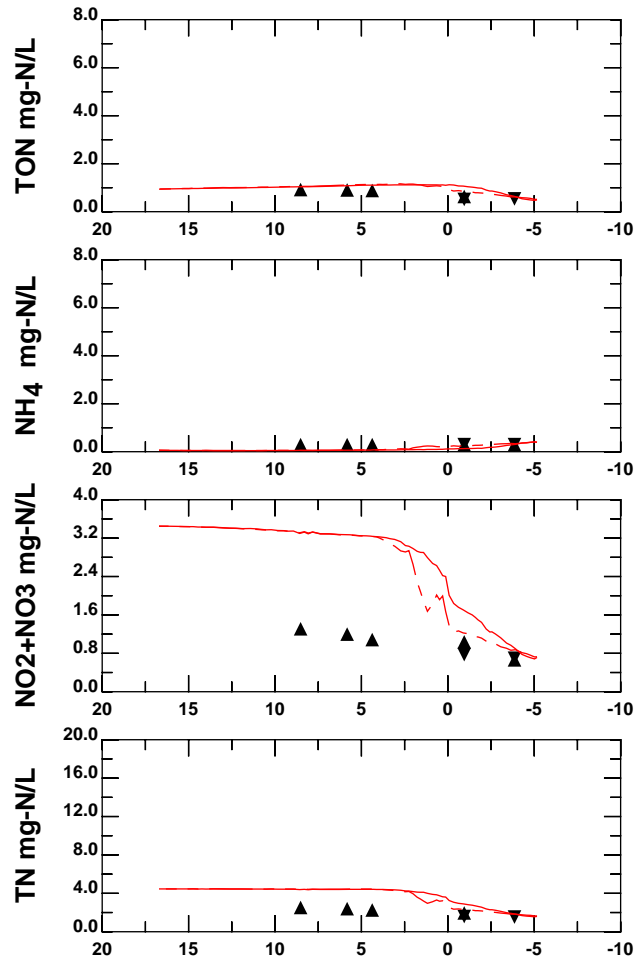
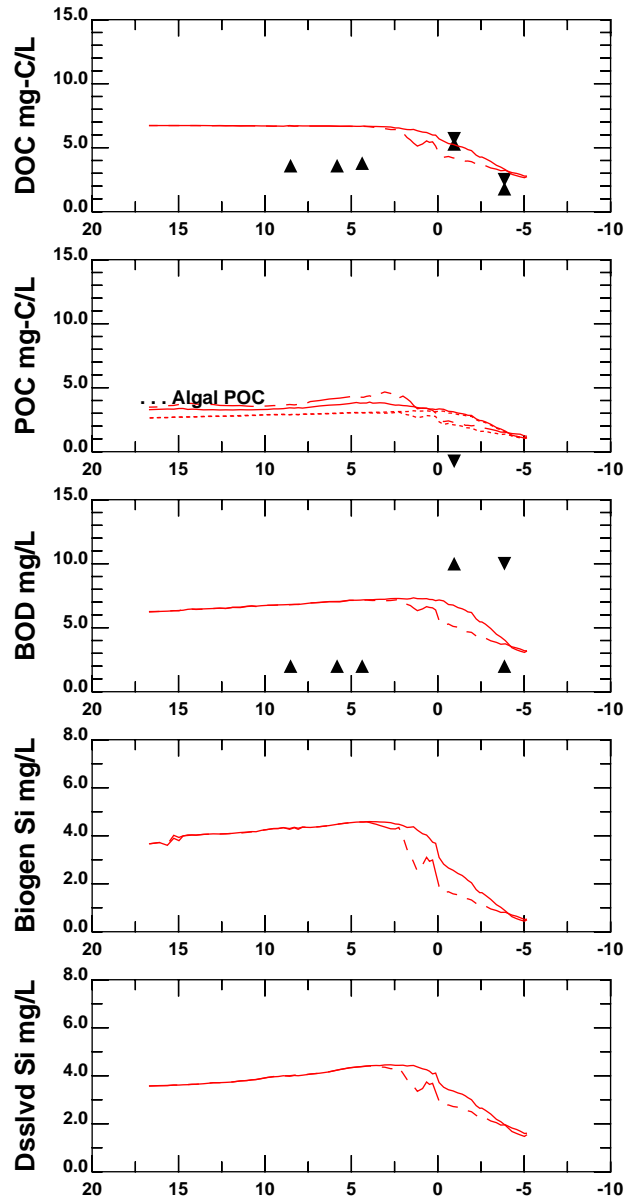
**DATA**  
NJHDG Jun 29, 2006

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



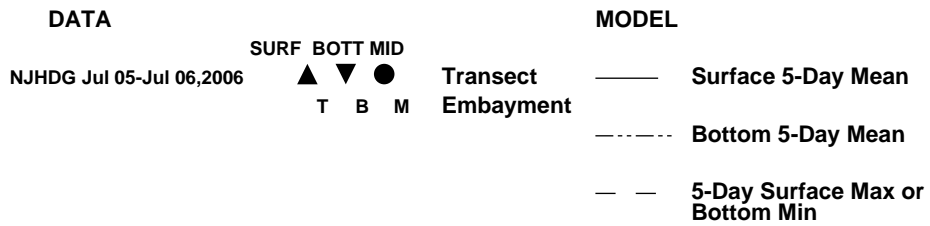
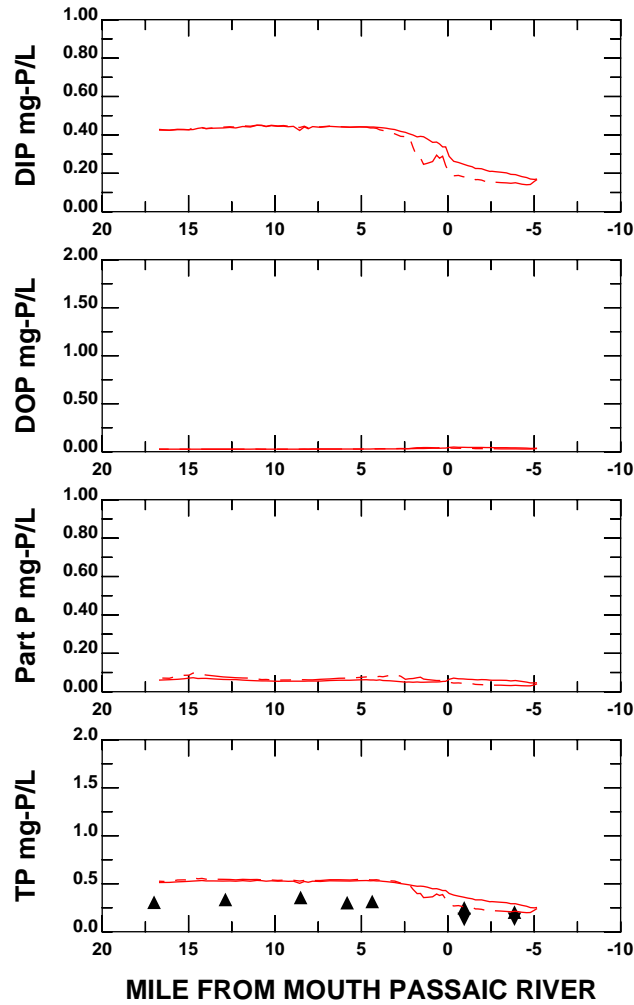
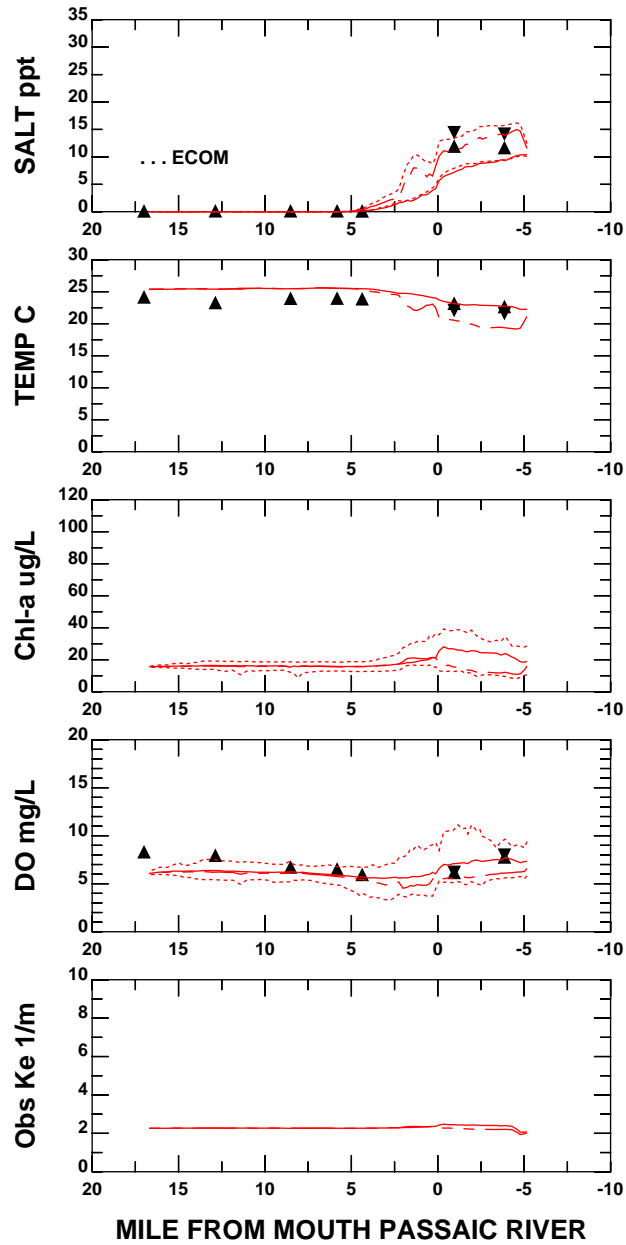
DATA  
NJHDG Jun 29, 2006

MODEL

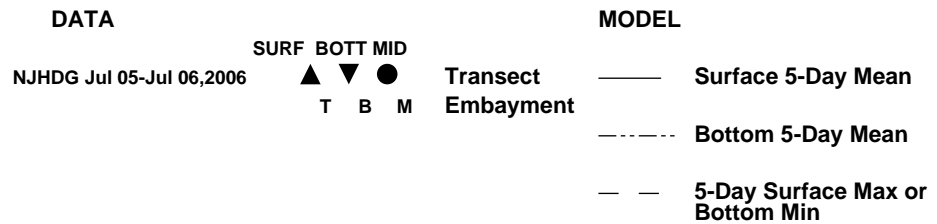
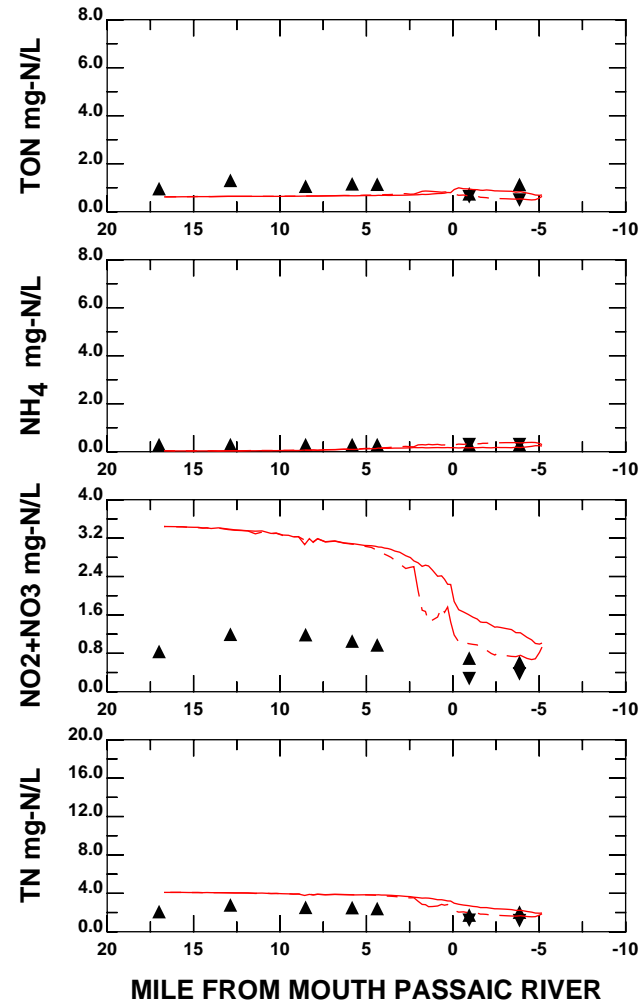
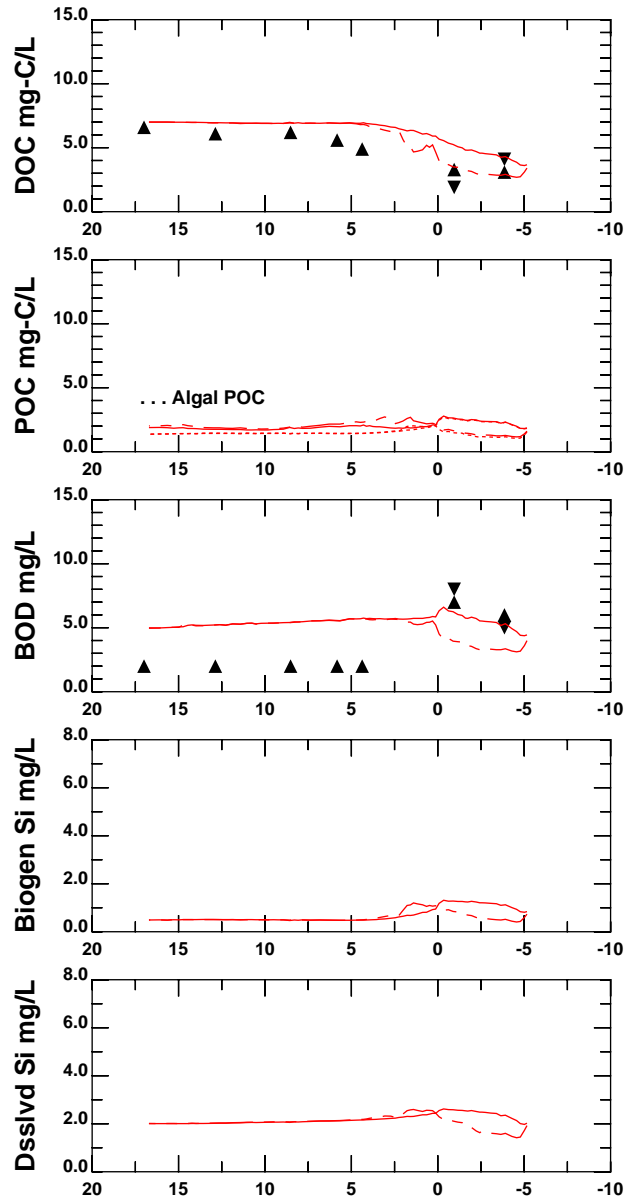
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

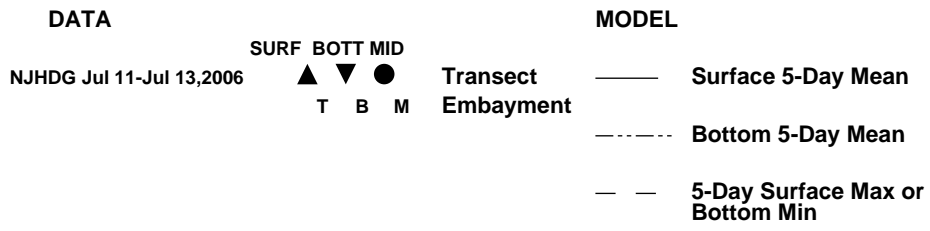
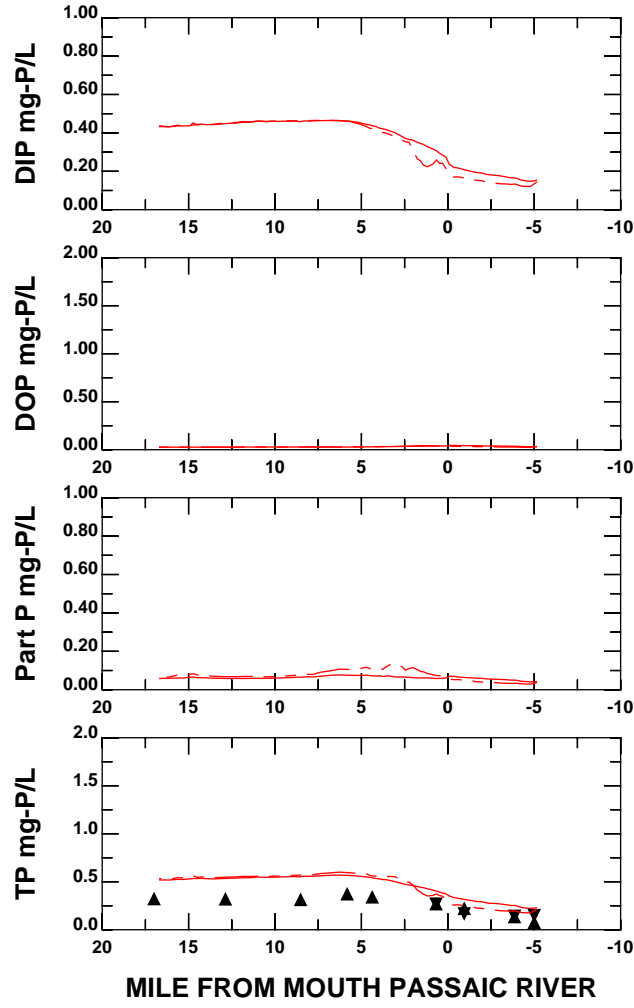
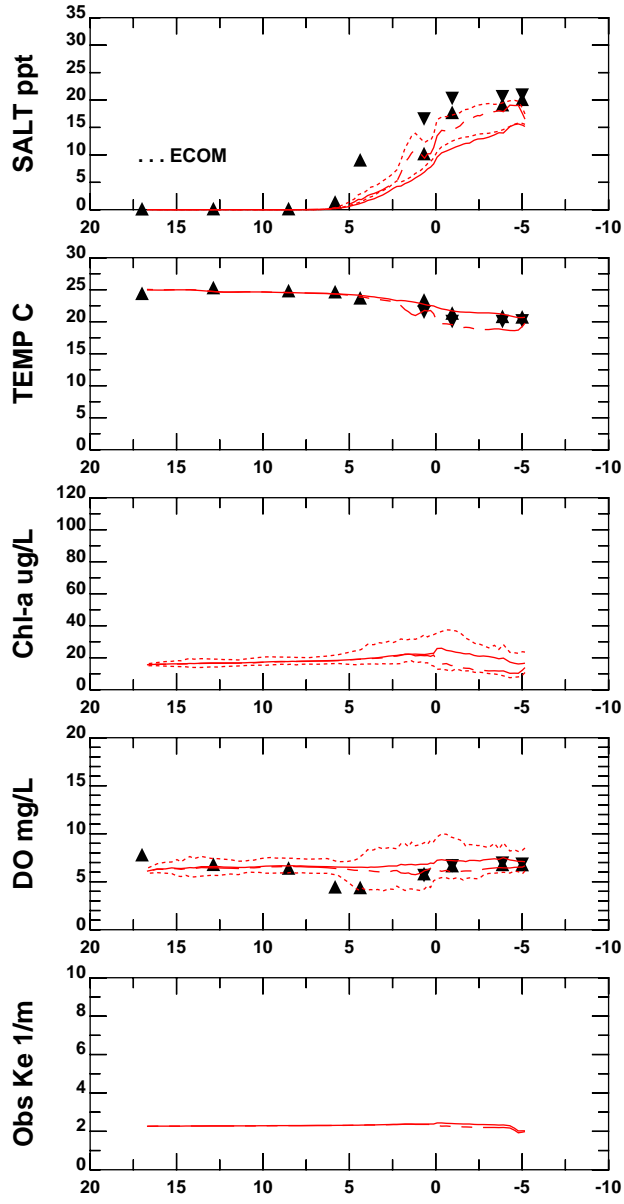
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

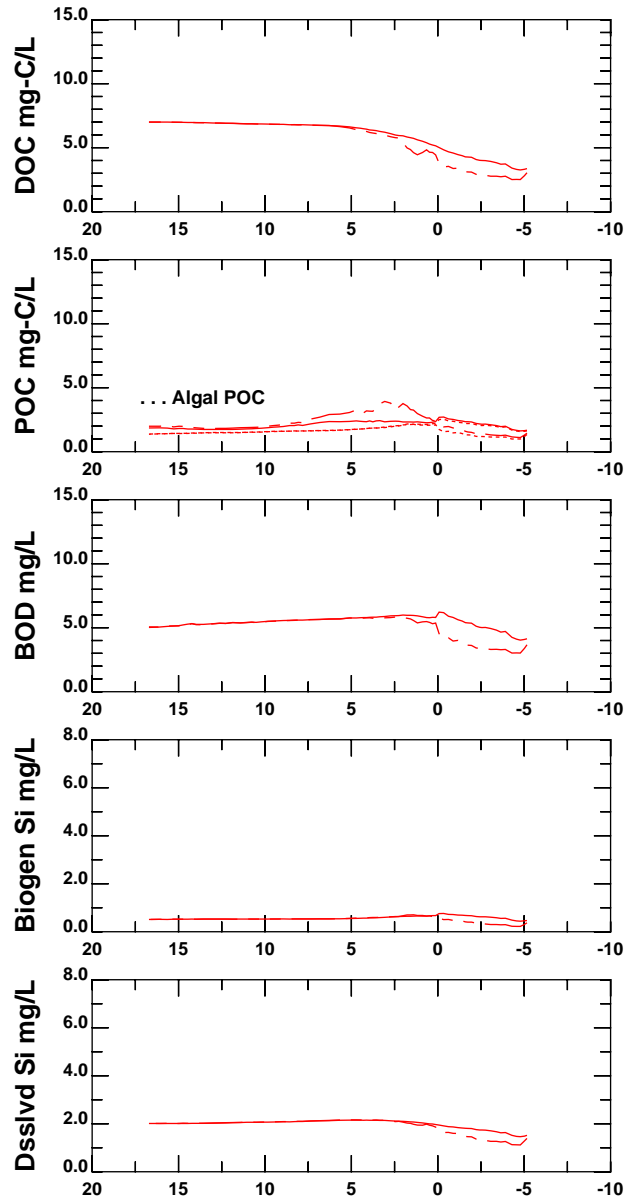


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

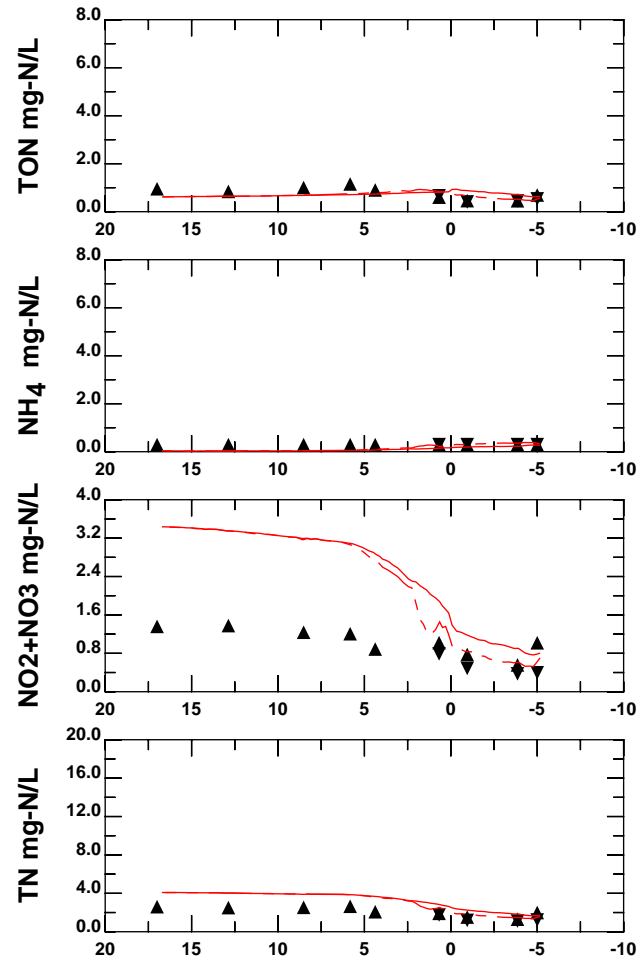


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

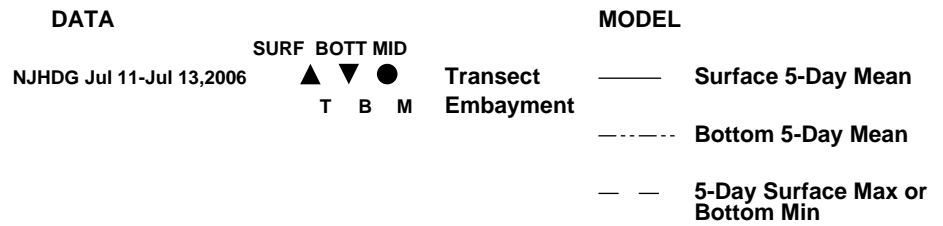




MILE FROM MOUTH PASSAIC RIVER

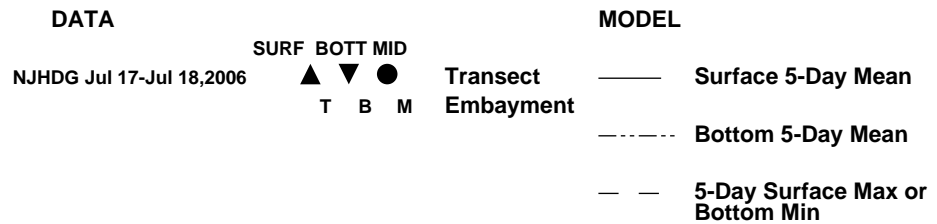
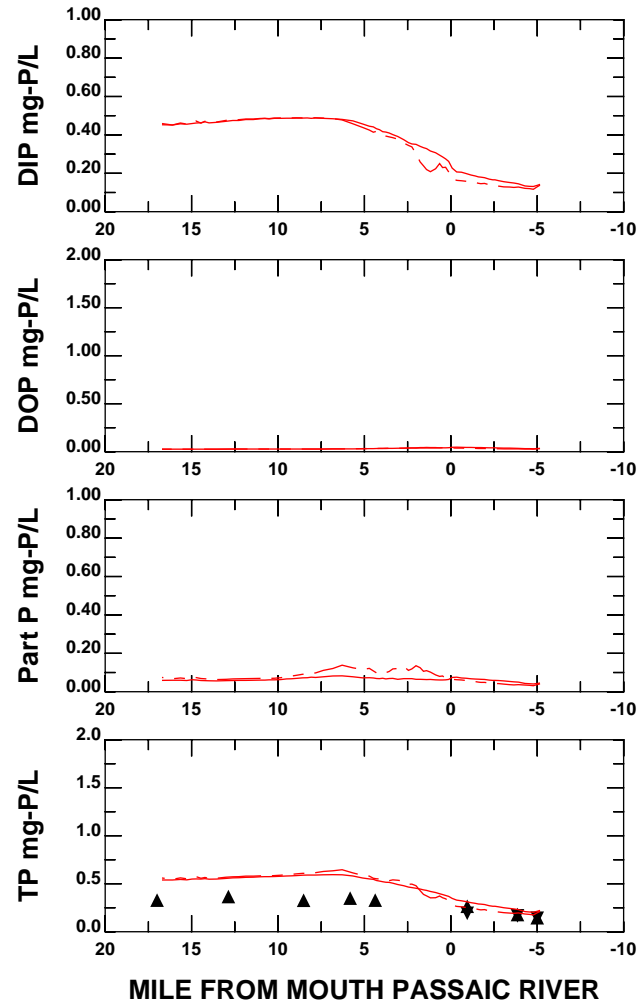
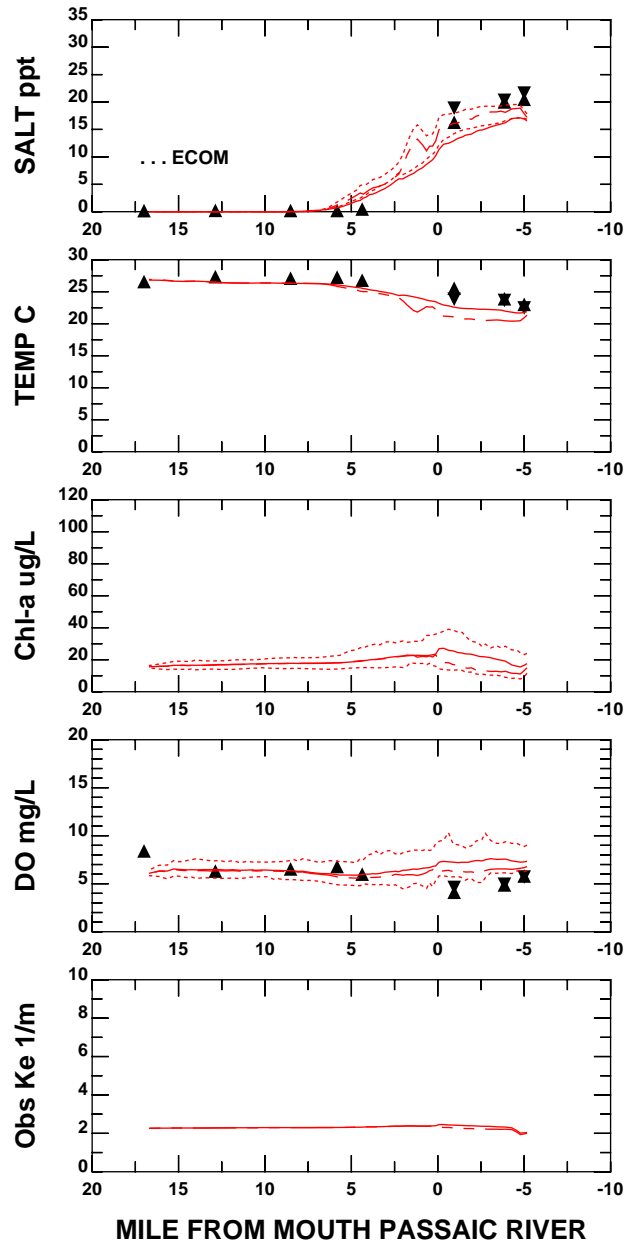


MILE FROM MOUTH PASSAIC RIVER

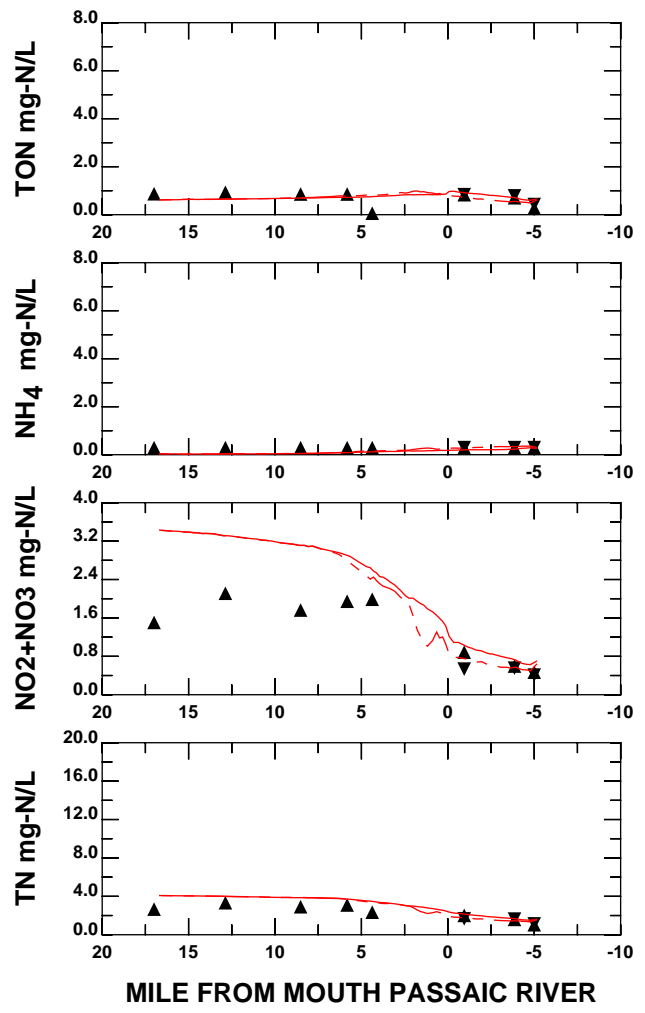
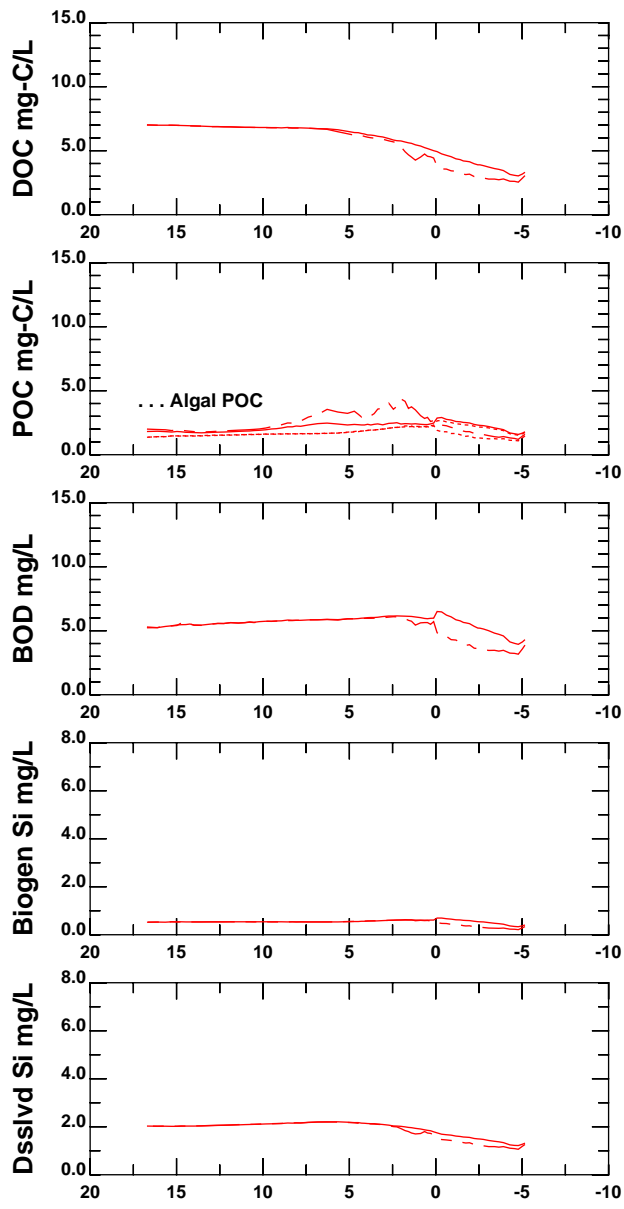


## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



DATA NJHDG Jul 17-Jul 18,2006

MODEL

SURF BOTT MID

▲ ▼ ● Transect

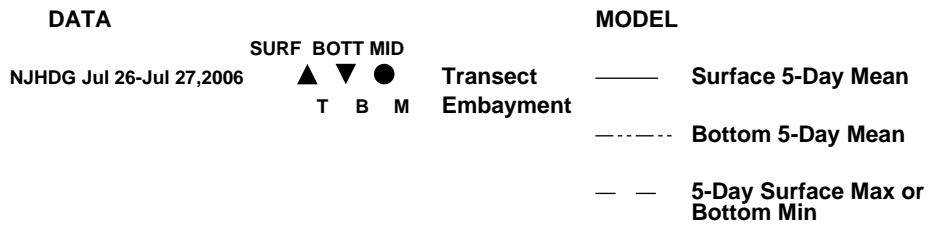
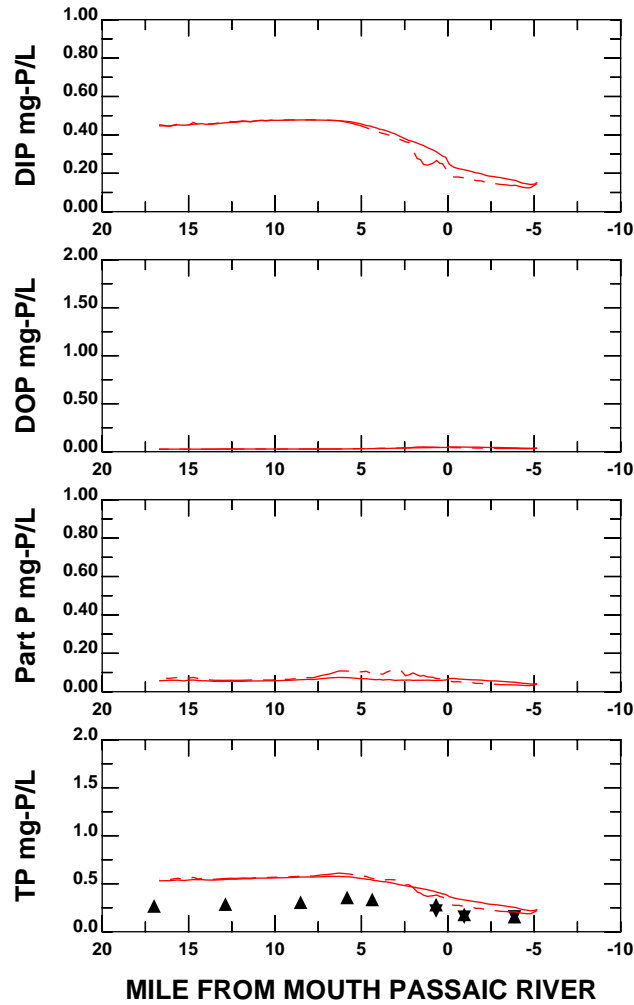
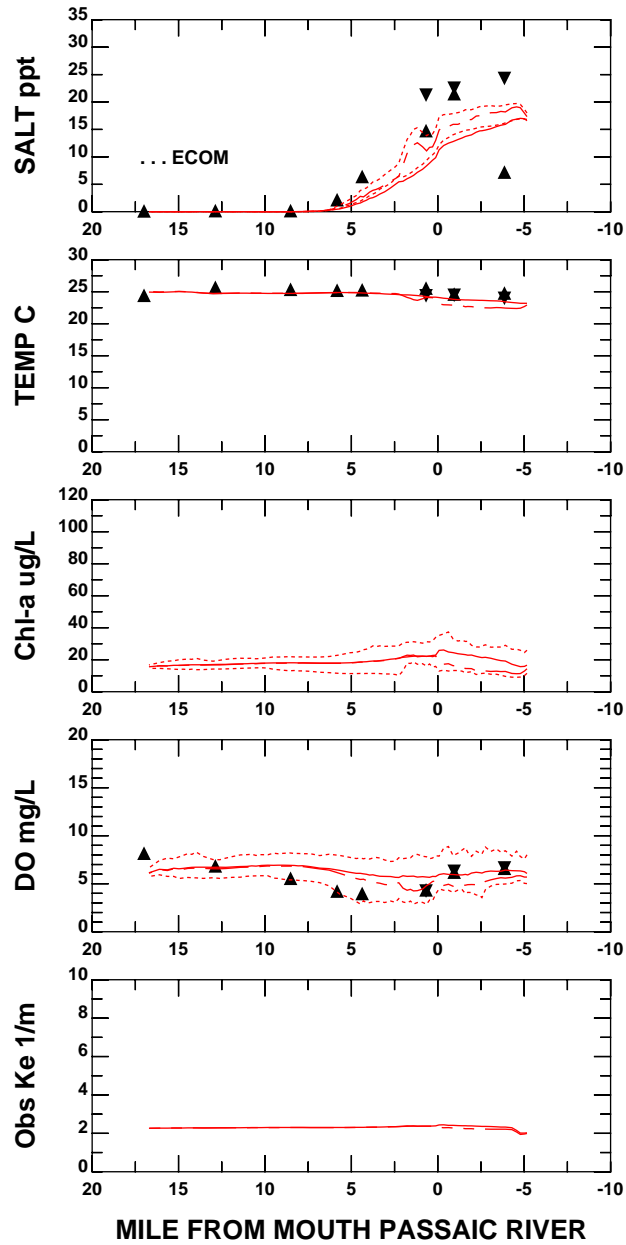
▲ ▼ ● Embayment

— Surface 5-Day Mean

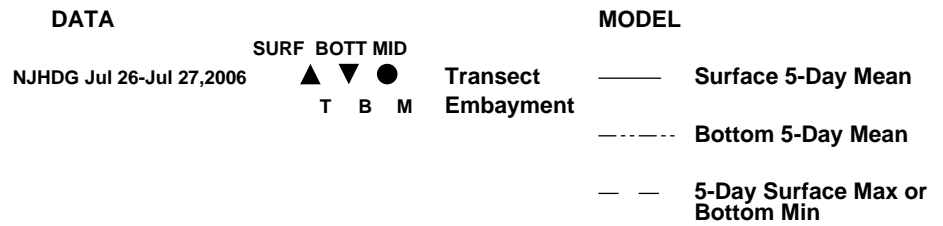
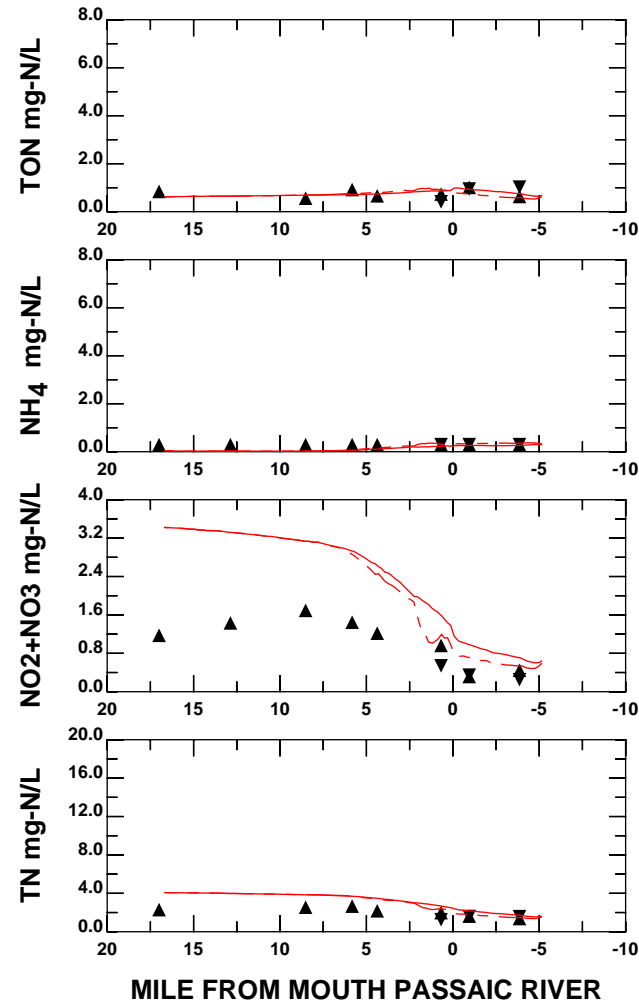
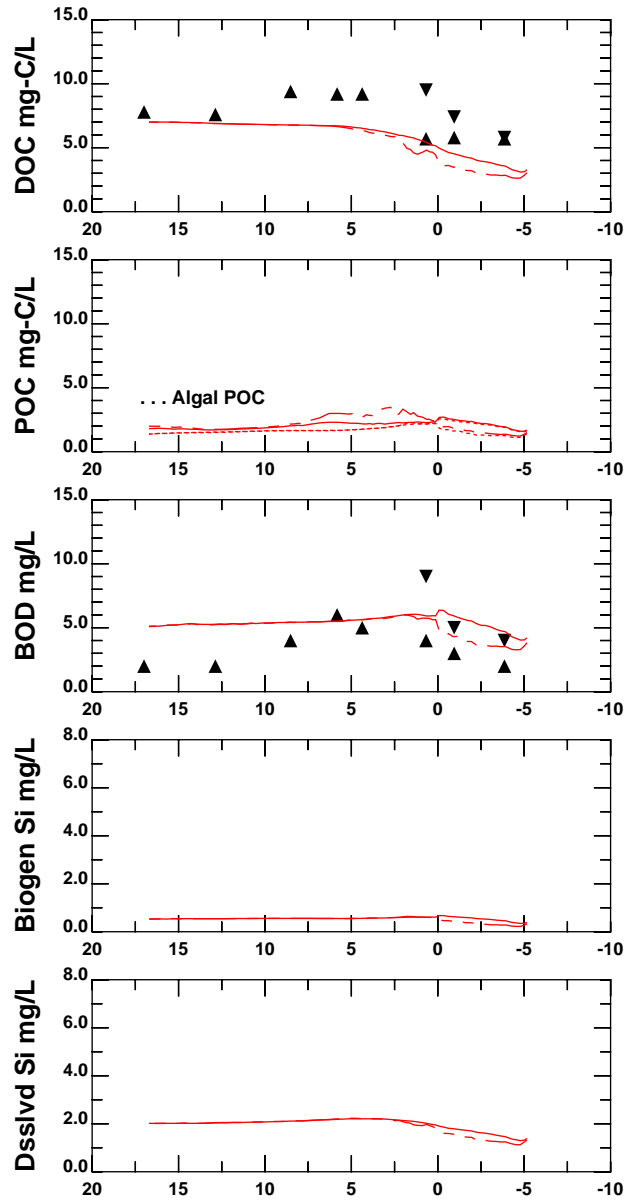
--- Bottom 5-Day Mean

- - - 5-Day Surface Max or Bottom Min

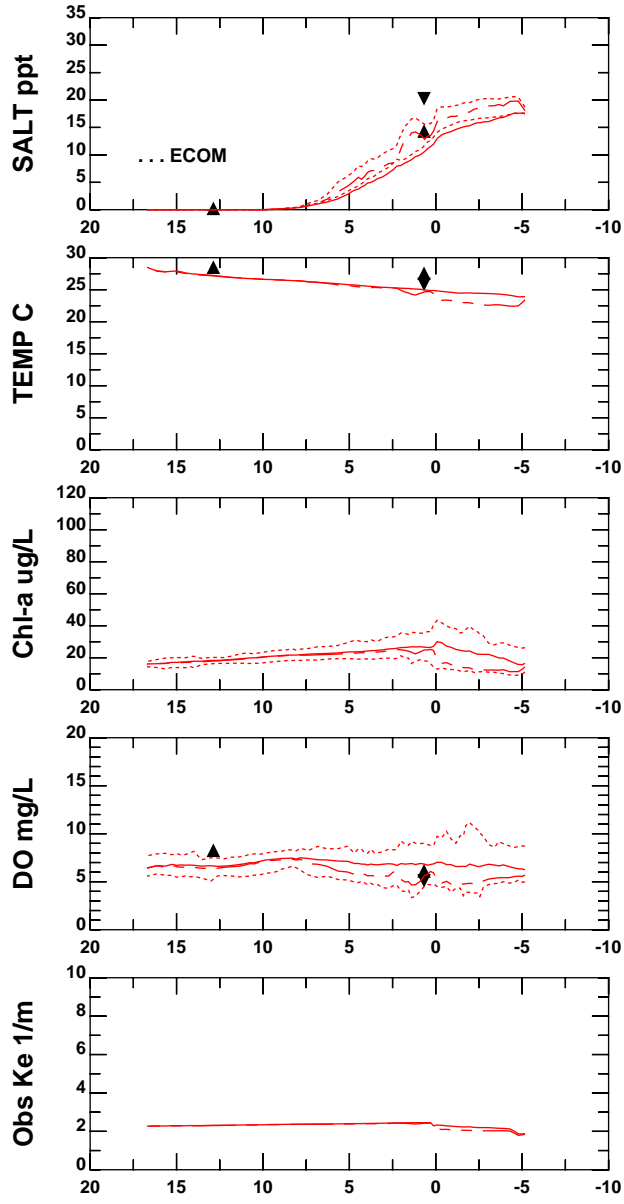
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

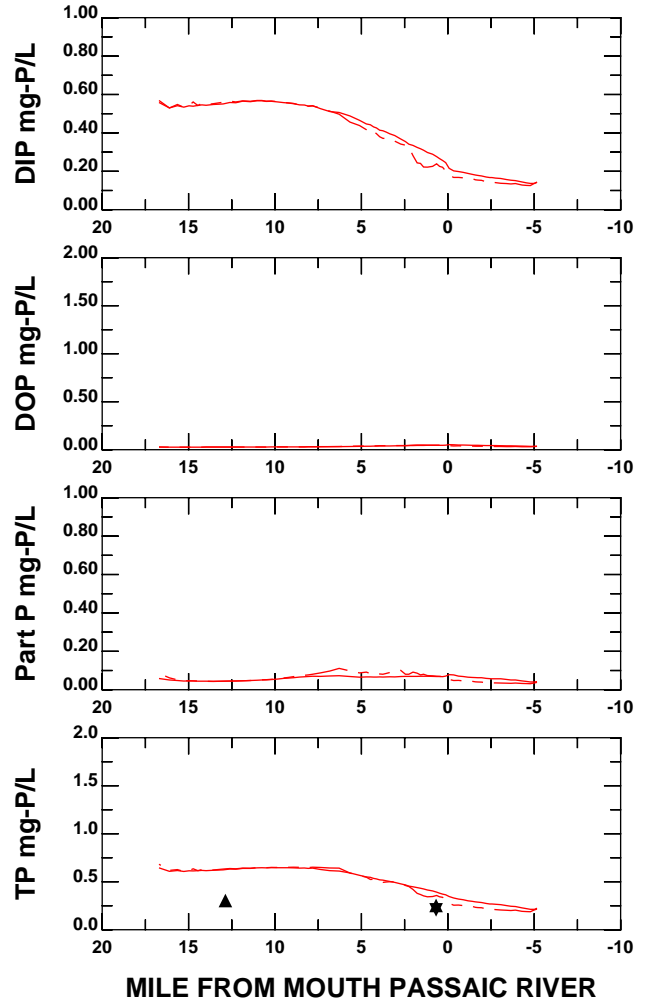


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

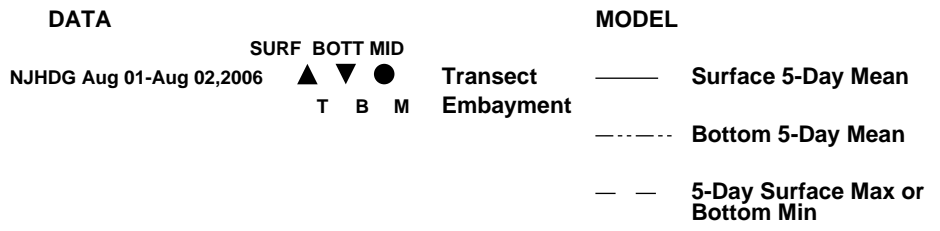


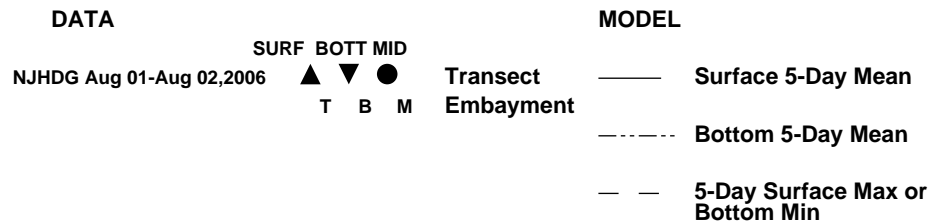
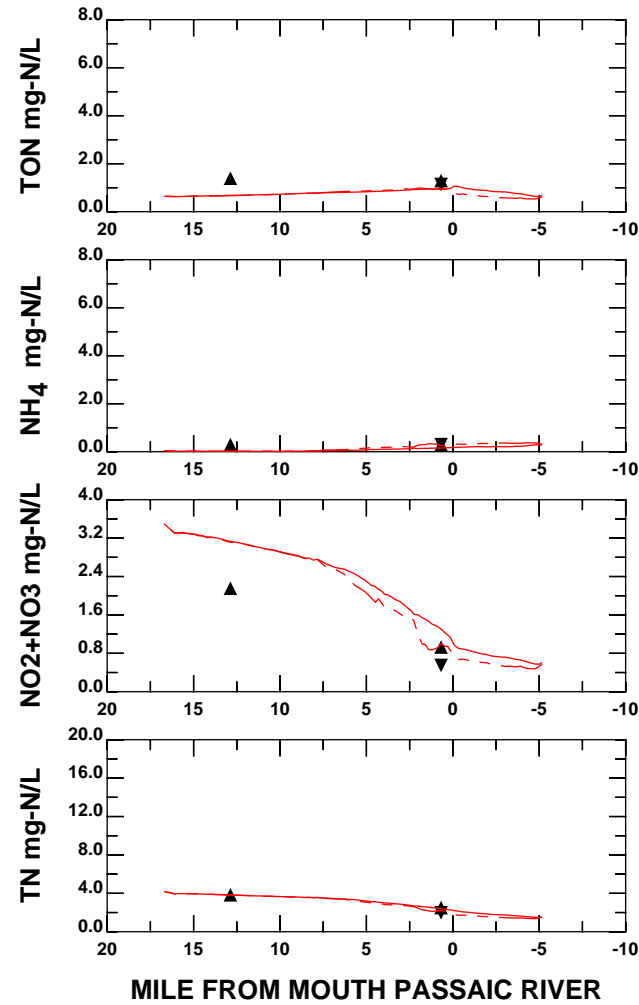
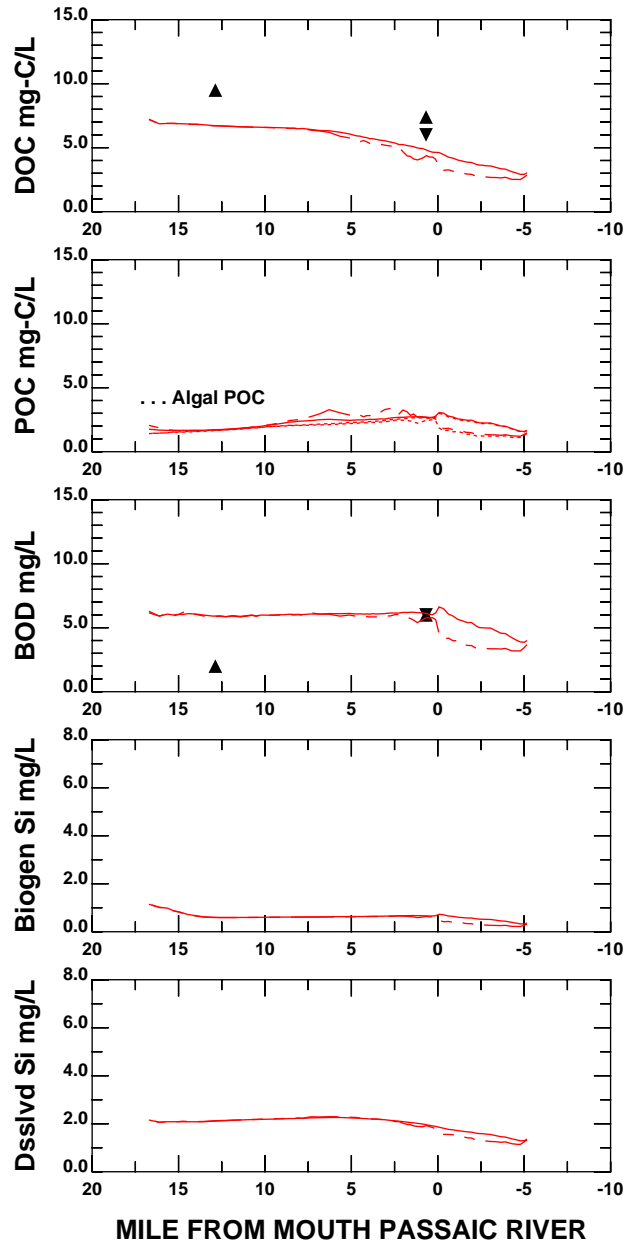
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

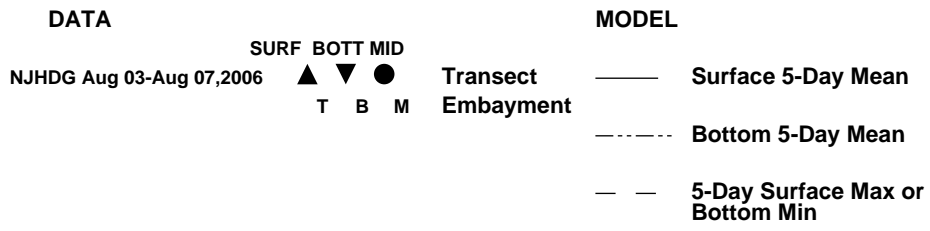
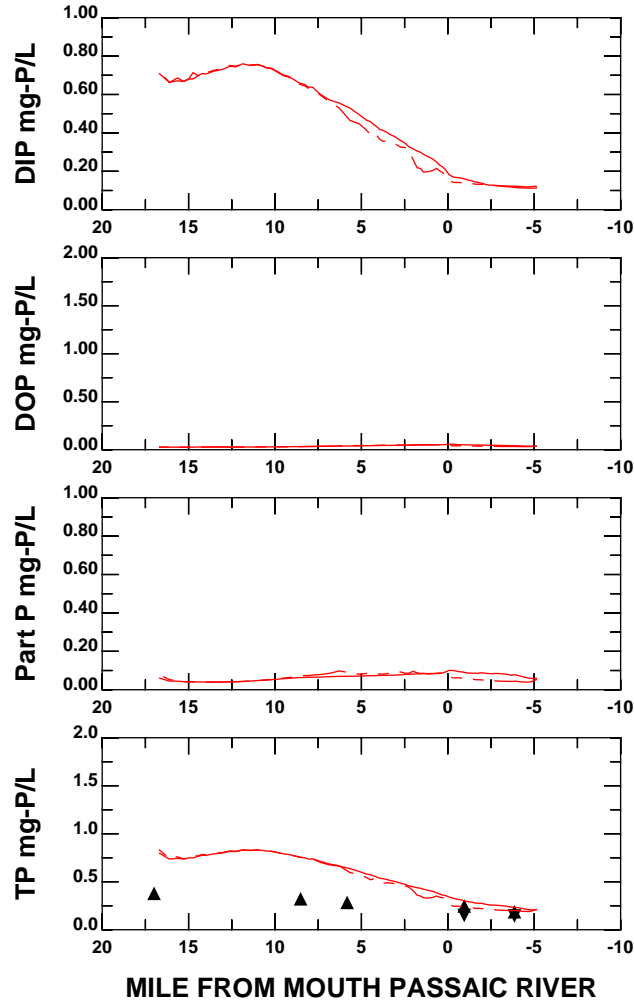
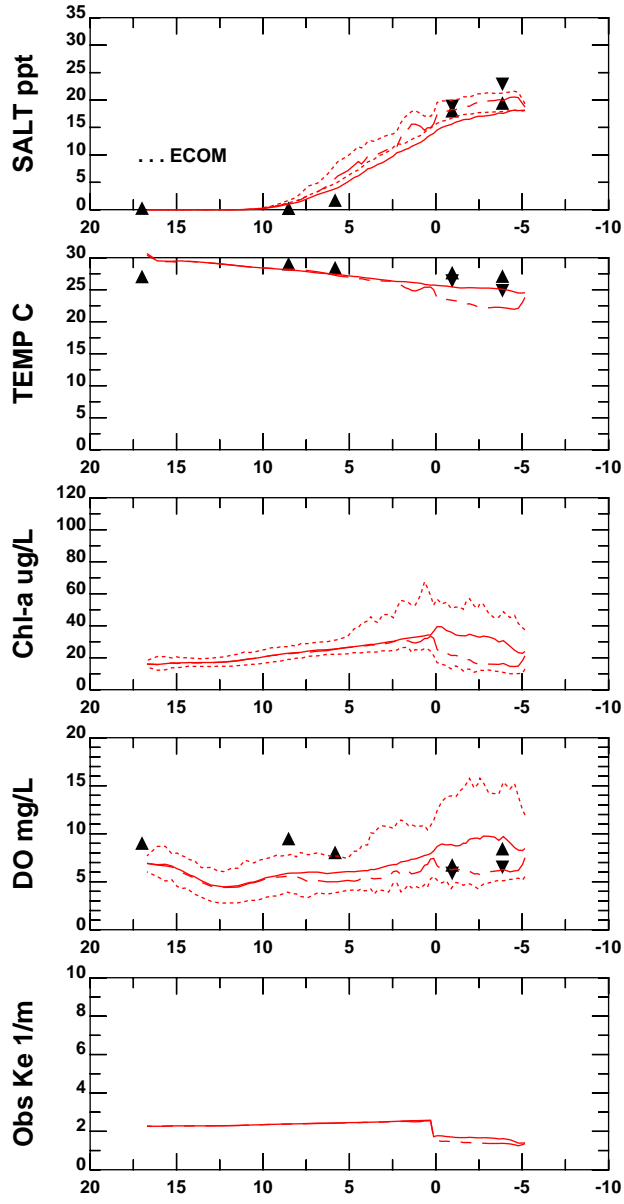


MILE FROM MOUTH PASSAIC RIVER



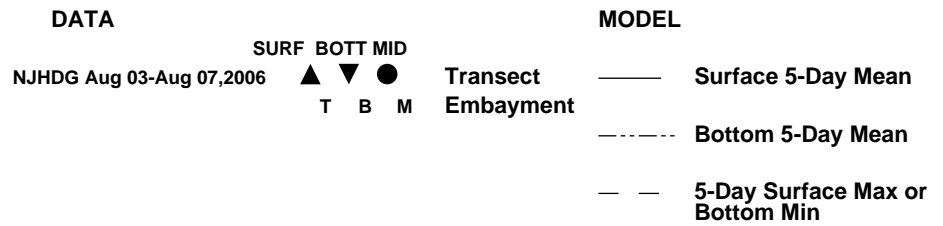
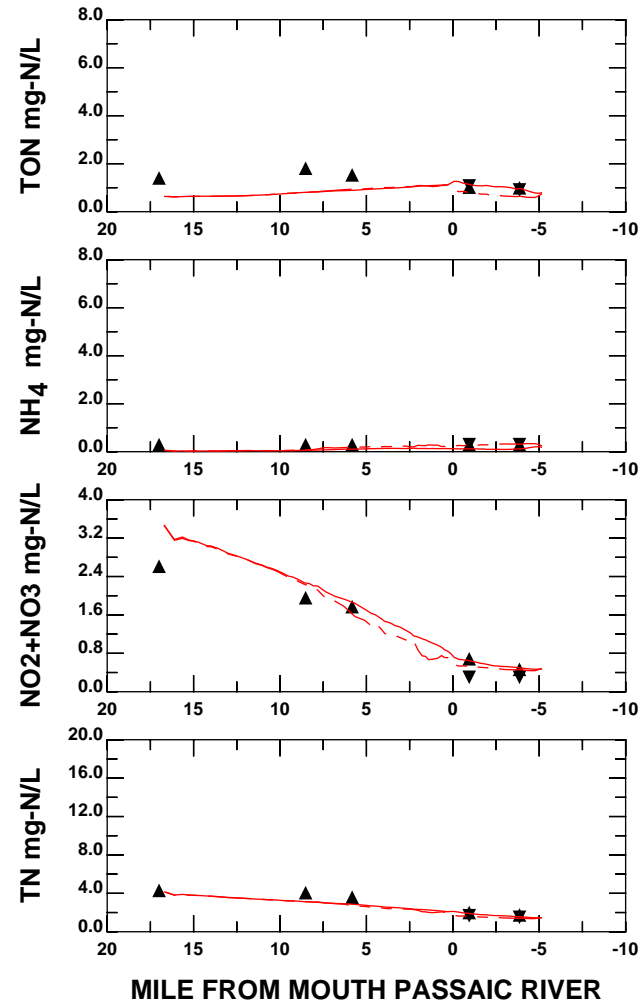
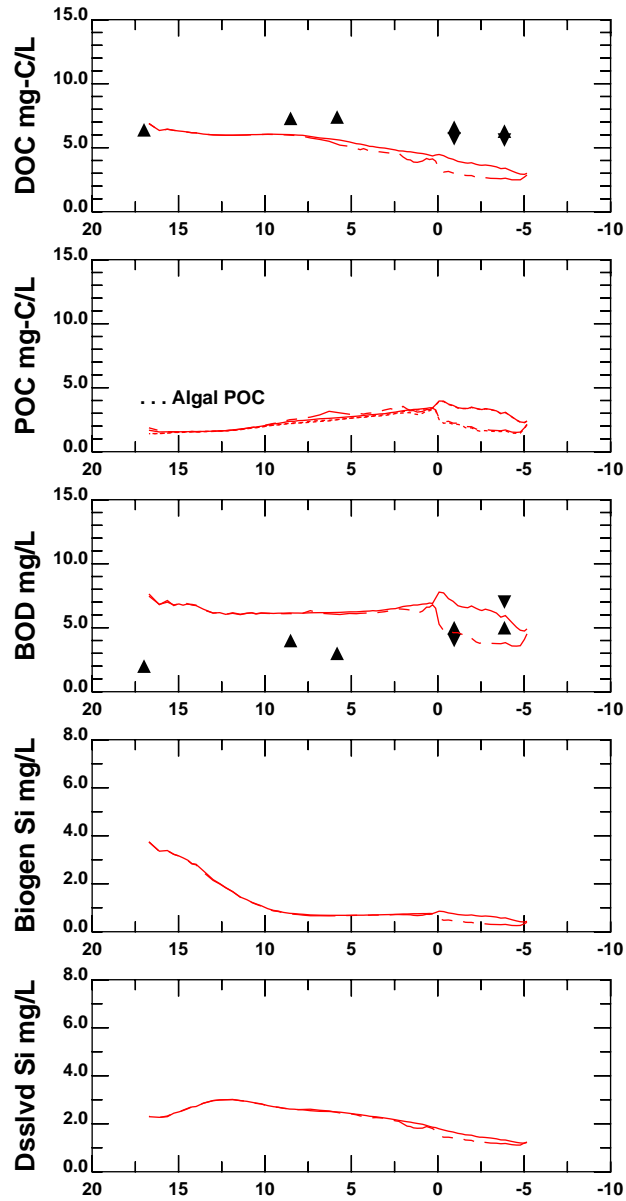


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

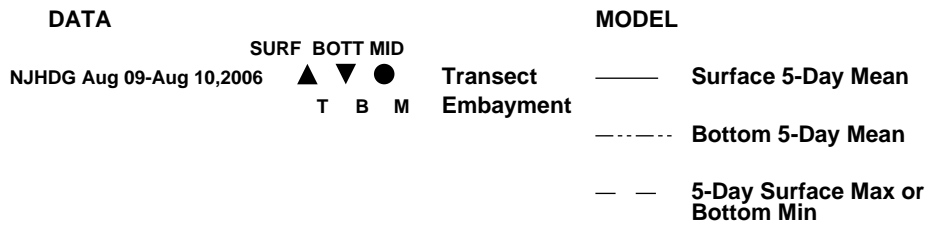
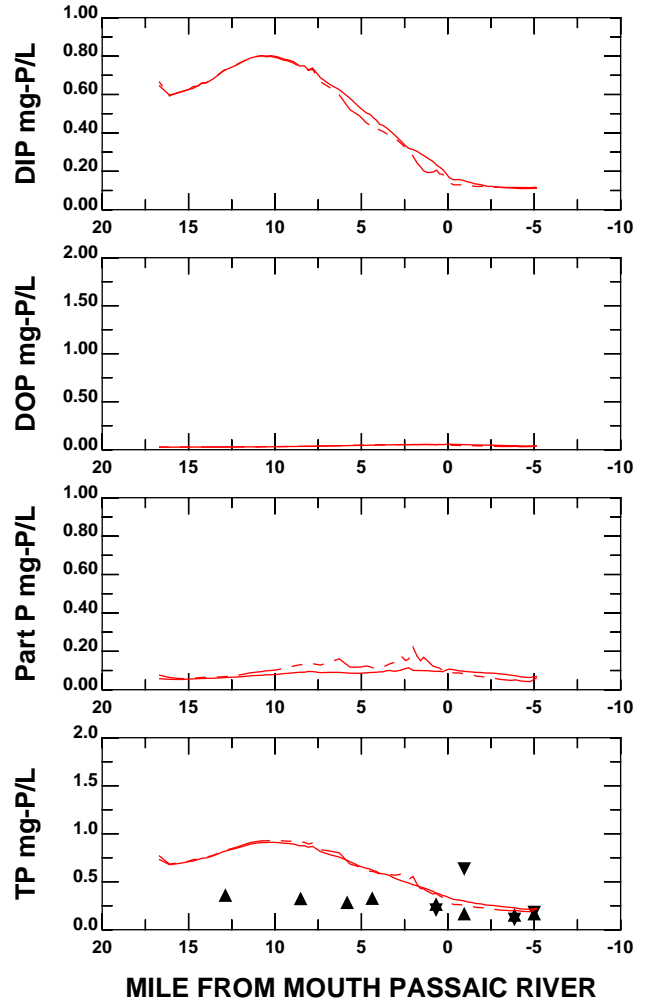
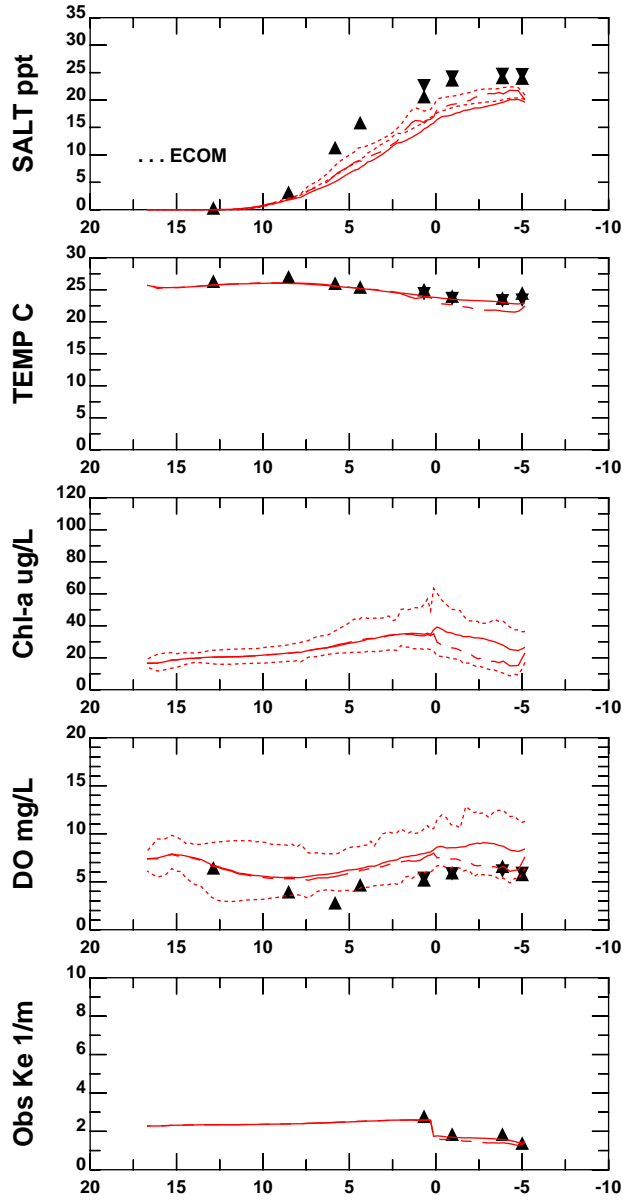


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

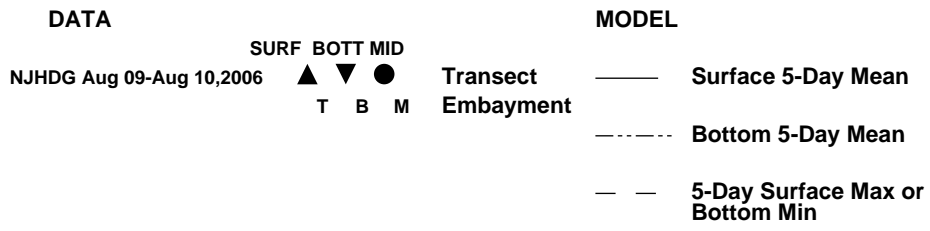
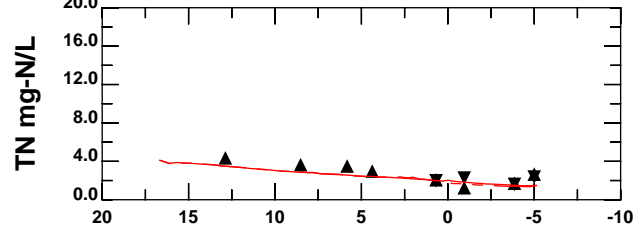
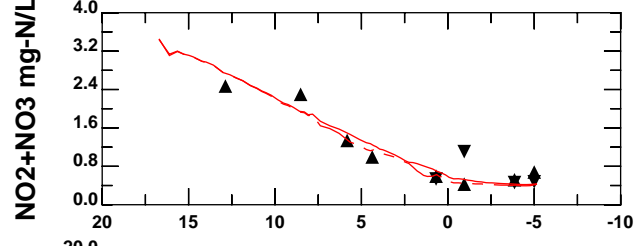
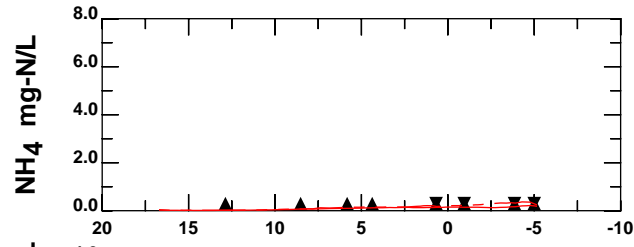
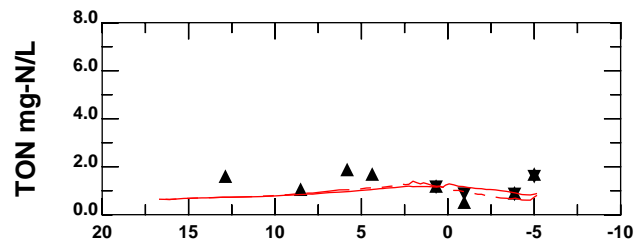
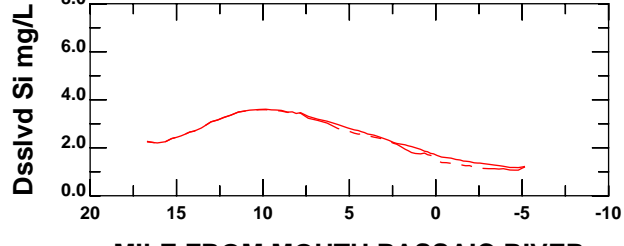
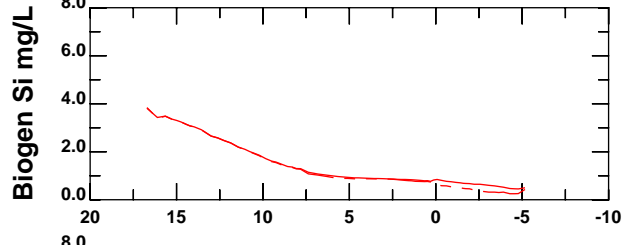
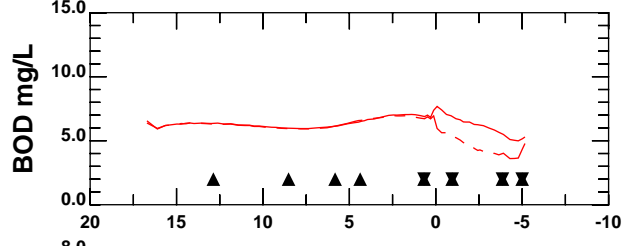
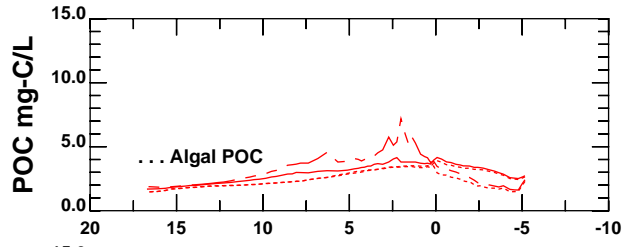
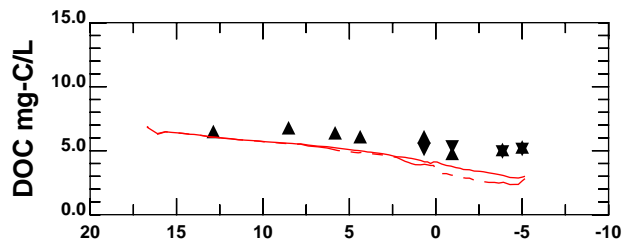




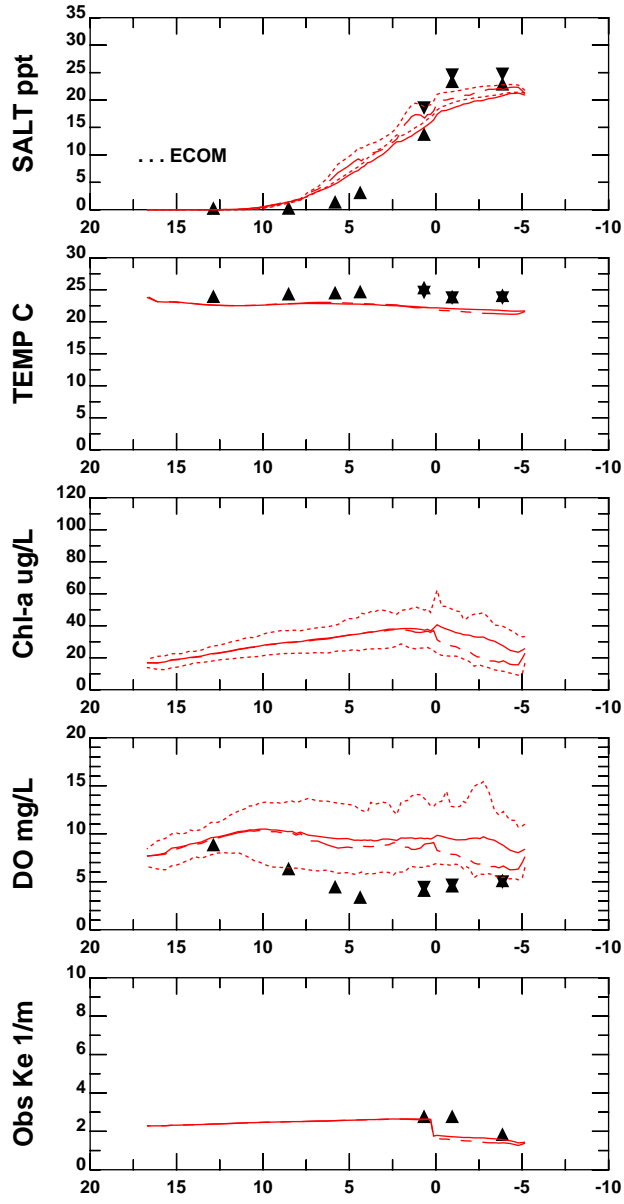
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



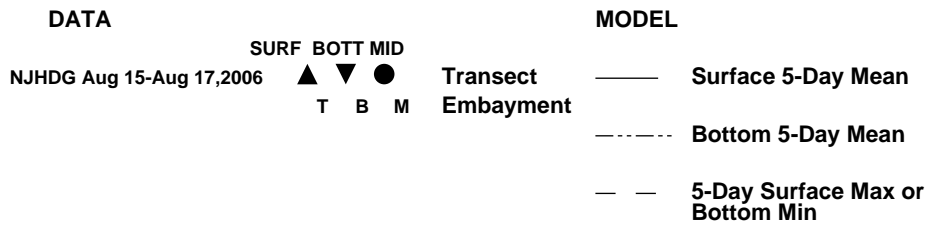
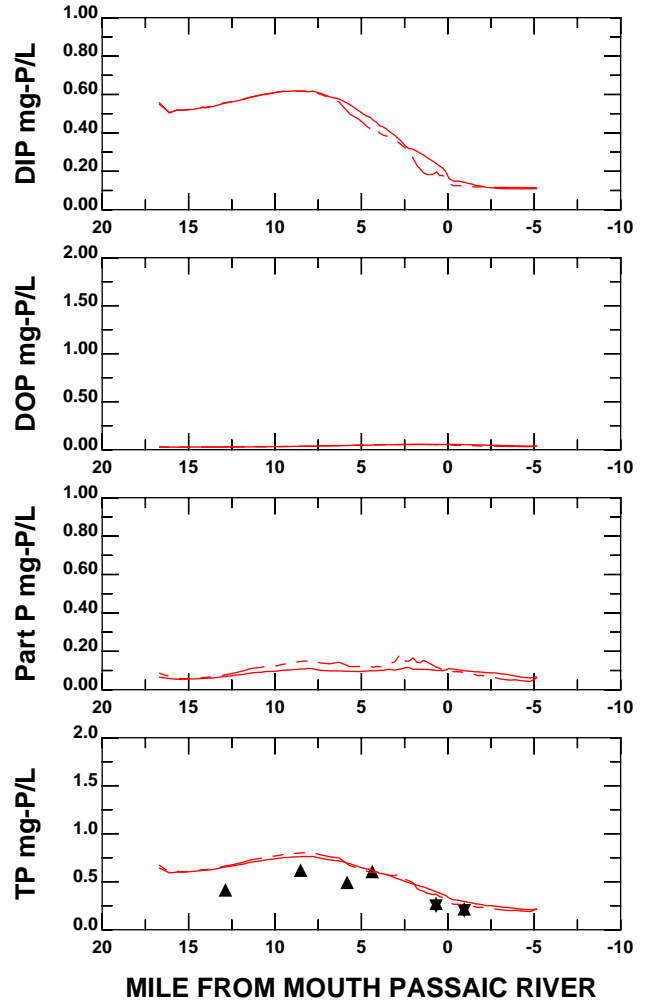
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

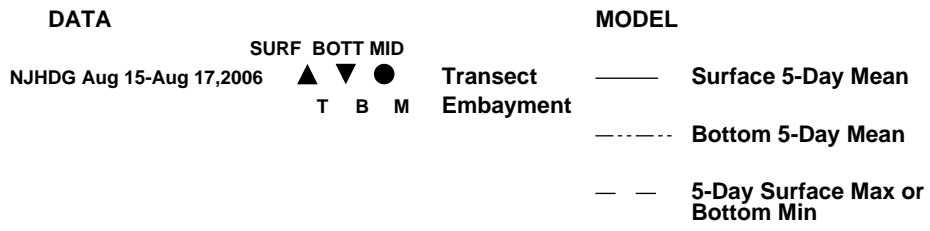
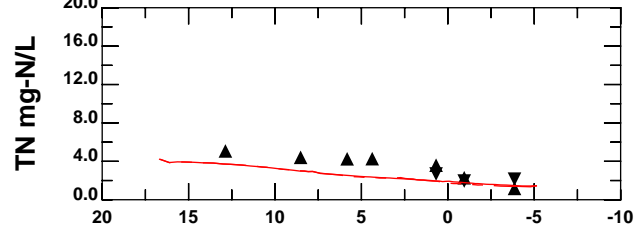
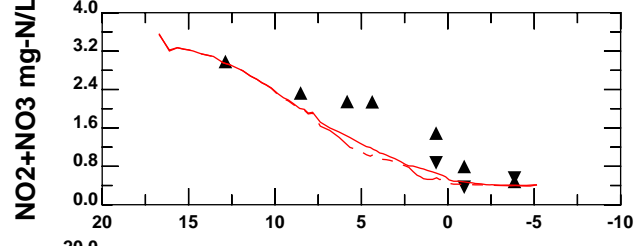
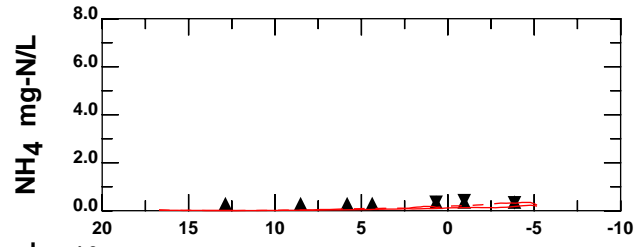
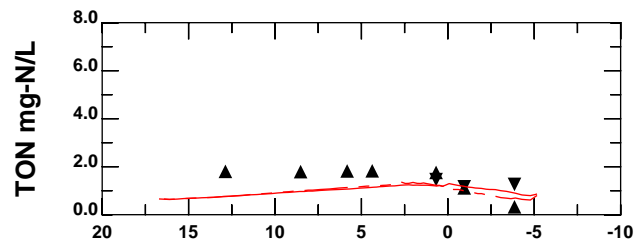
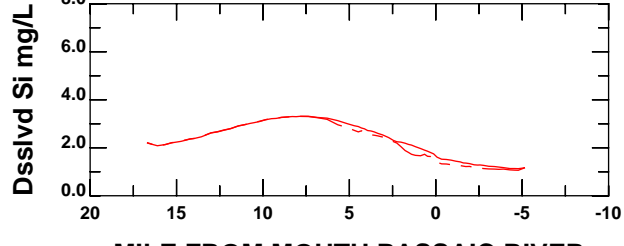
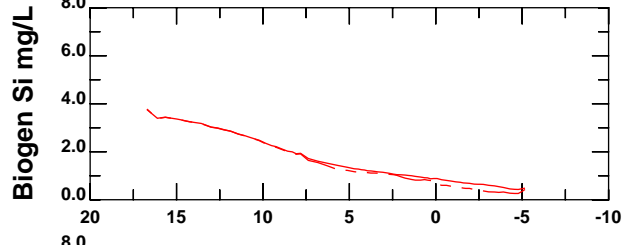
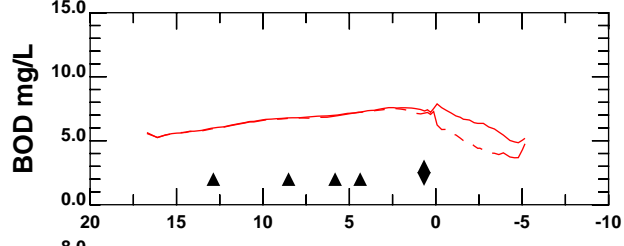
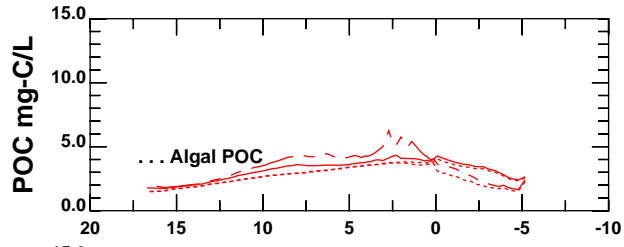
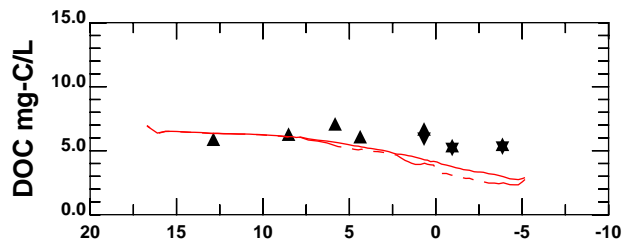


MILE FROM MOUTH PASSAIC RIVER

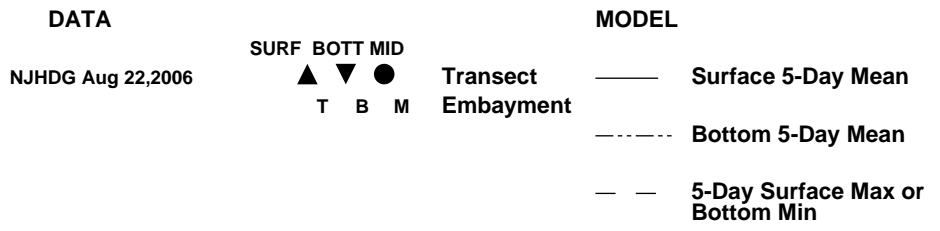
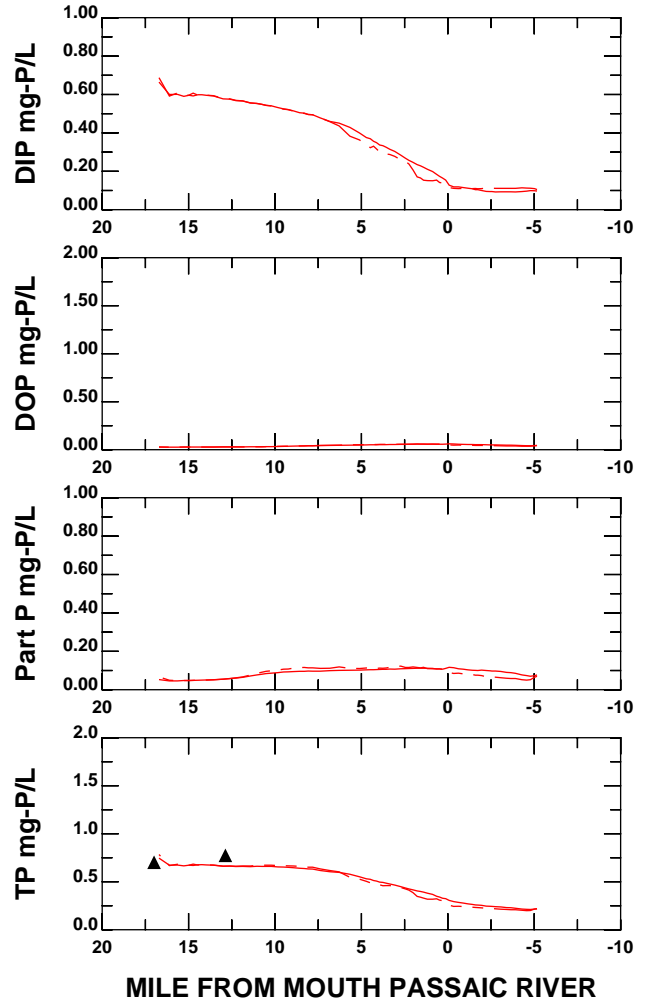
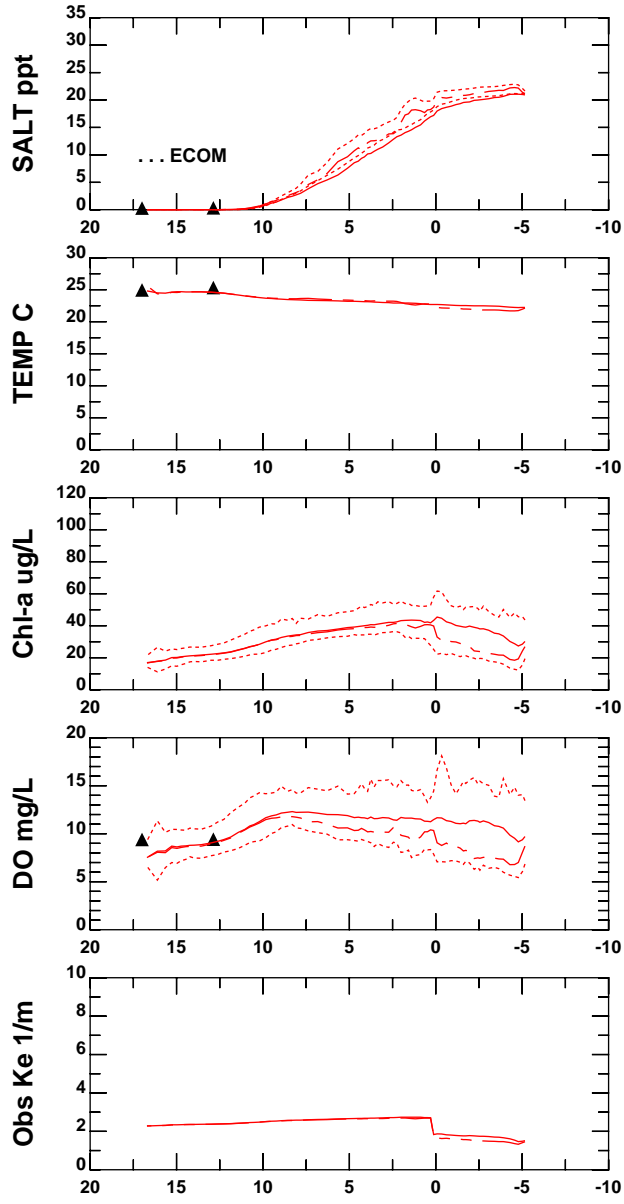
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0506

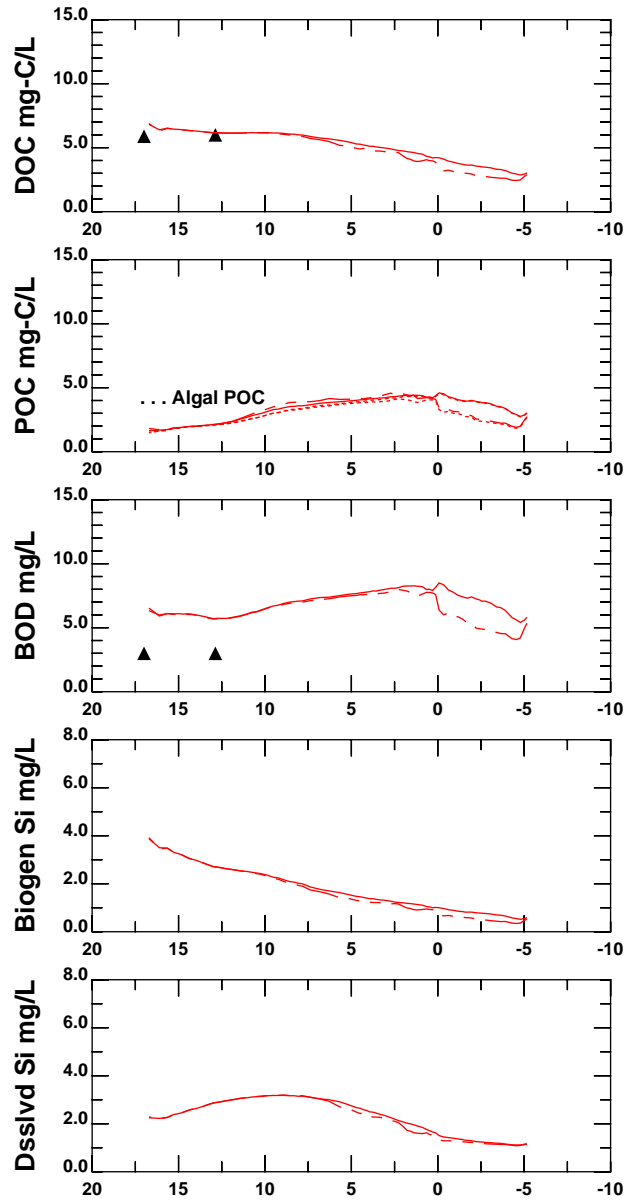




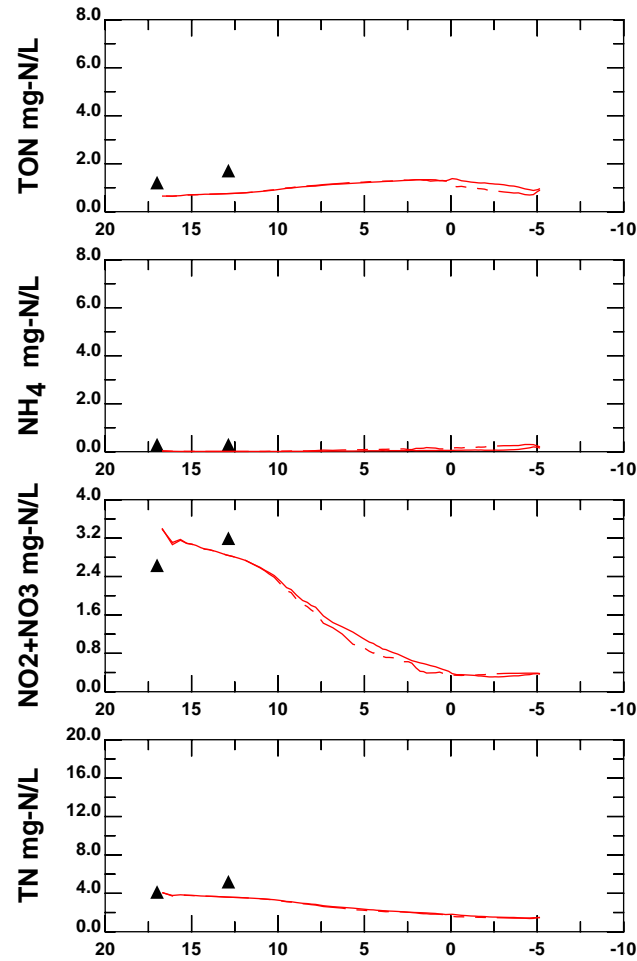
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Aug 22,2006

SURF BOTT MID

▲ ▼ ●  
T B M

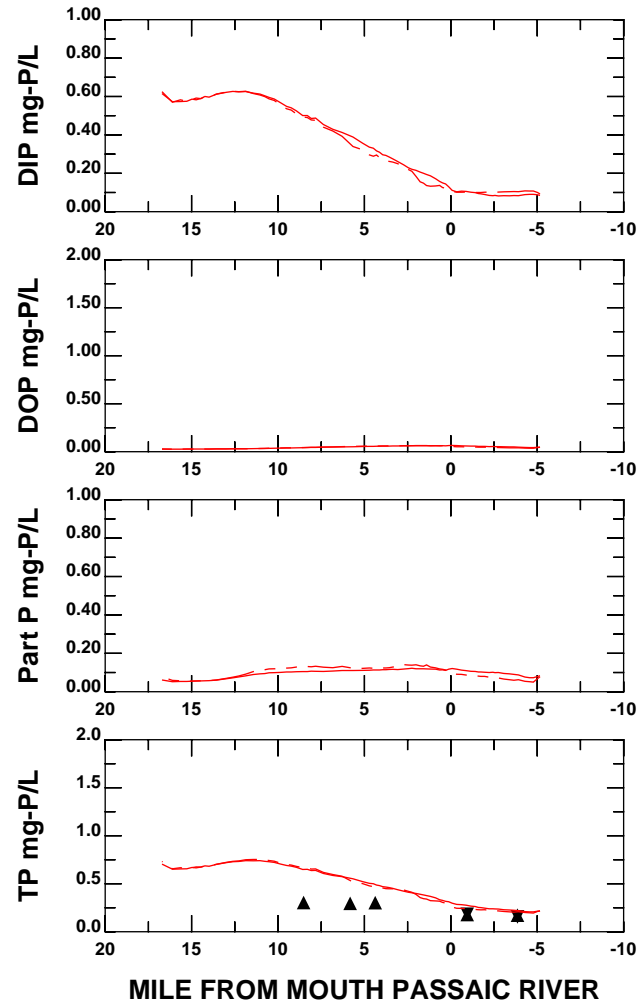
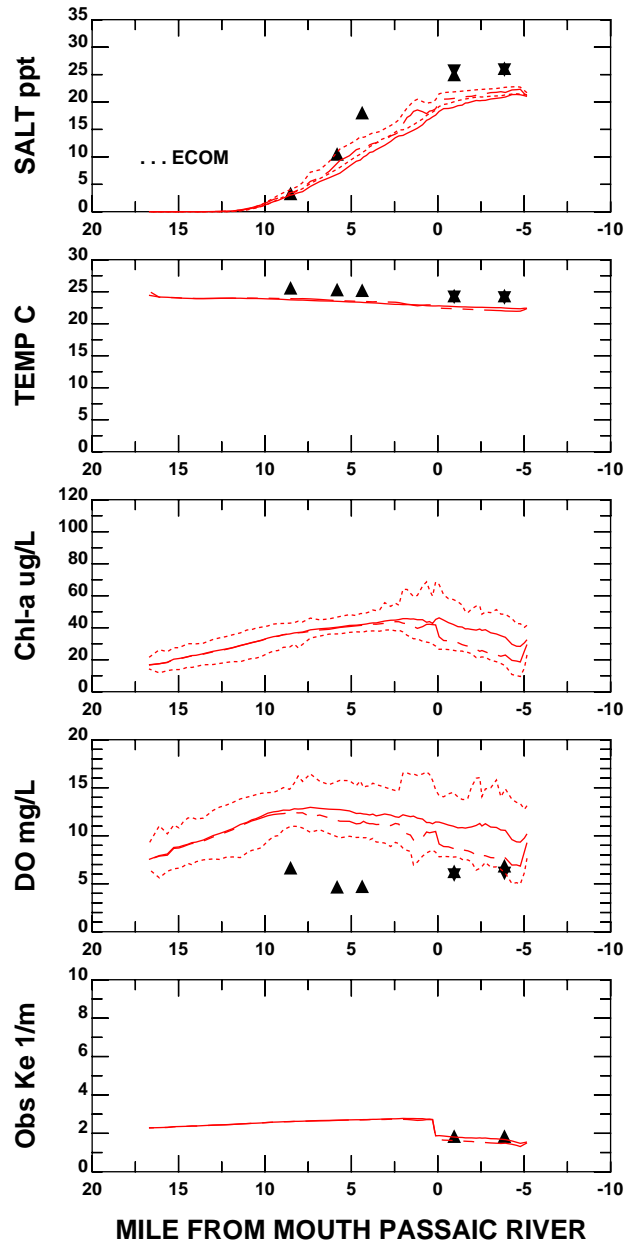
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506



**DATA**  
NJHDG Aug 23,2006

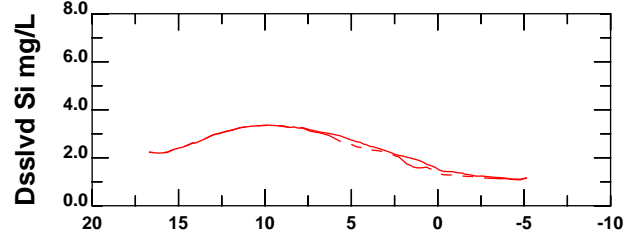
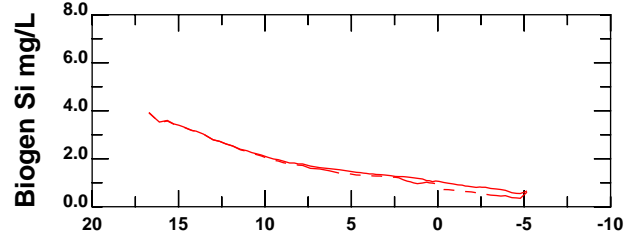
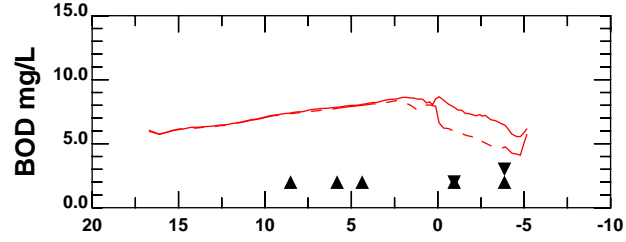
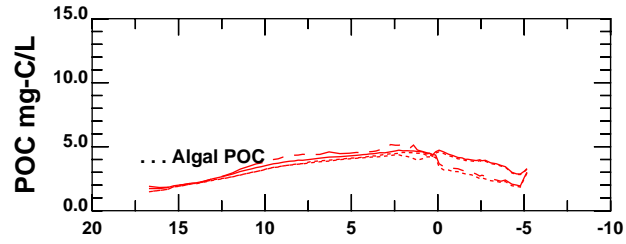
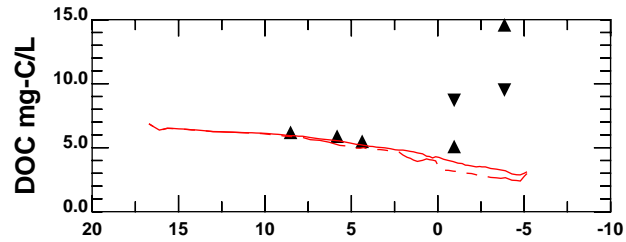
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

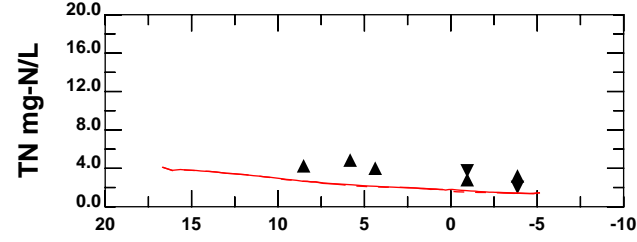
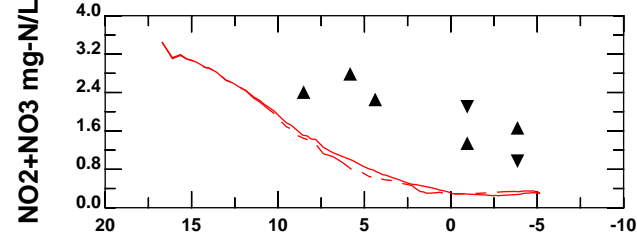
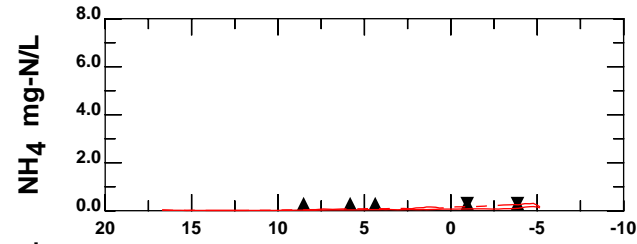
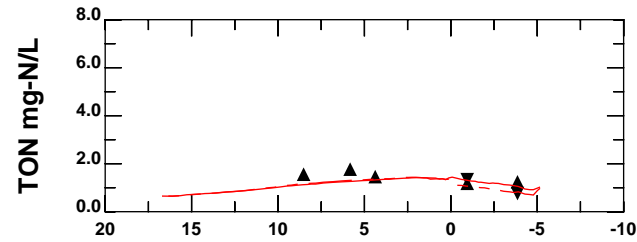




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

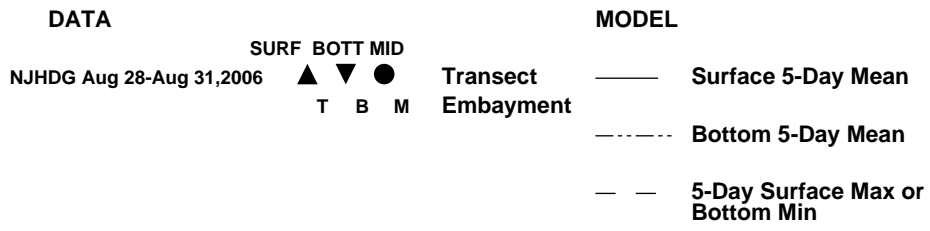
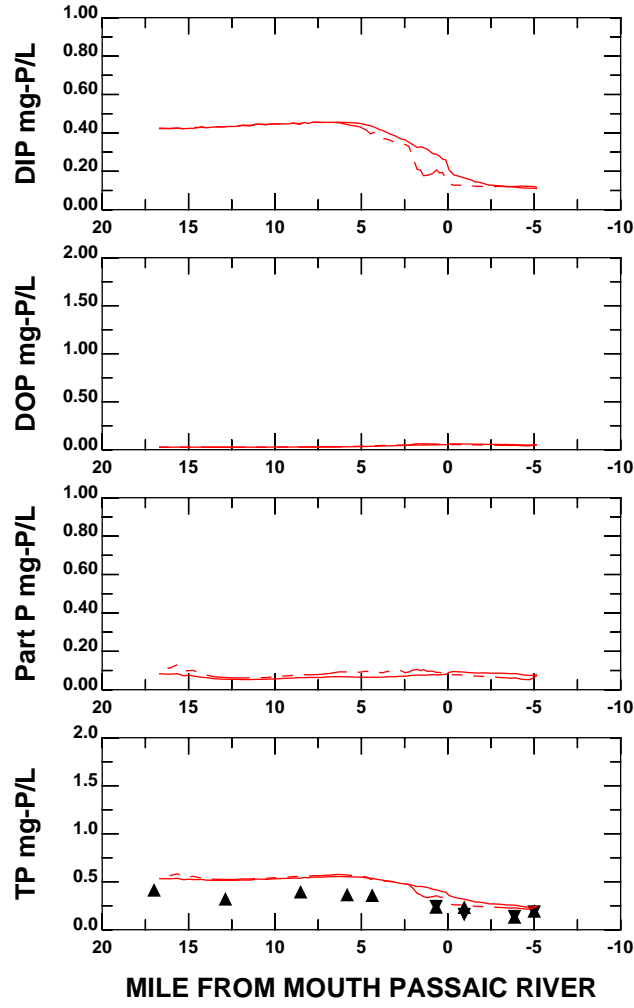
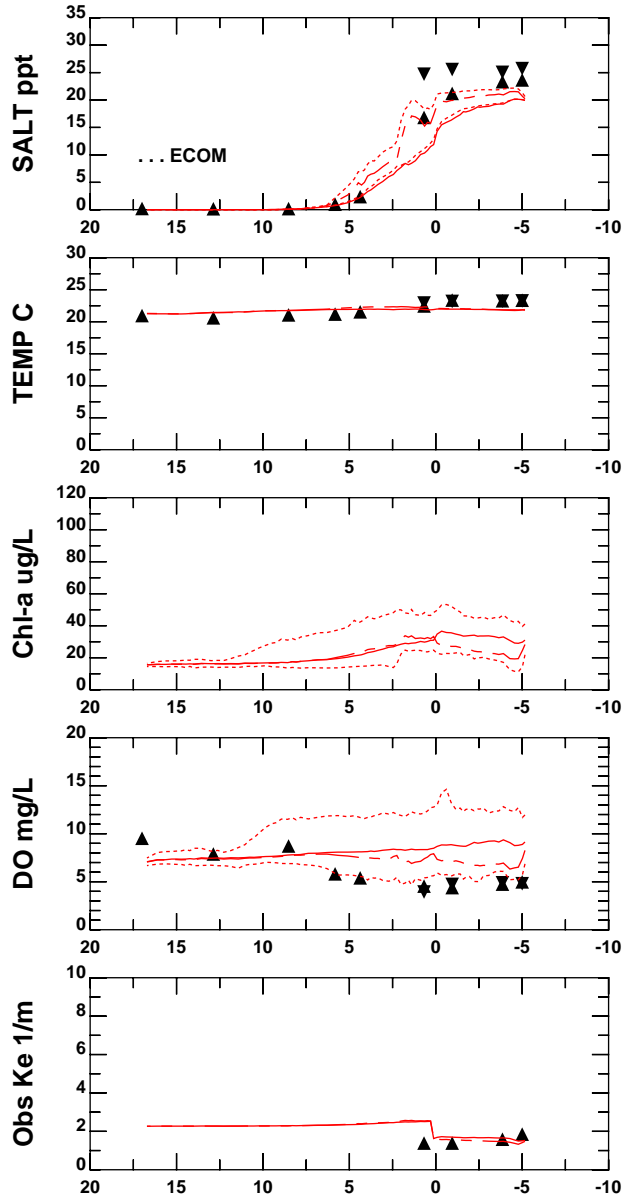


MILE FROM MOUTH PASSAIC RIVER

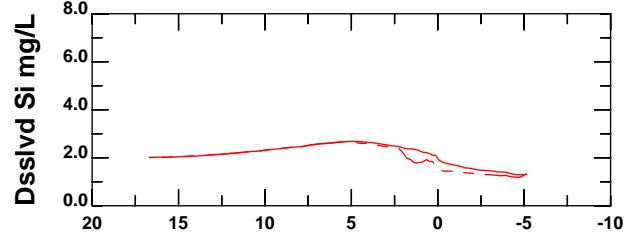
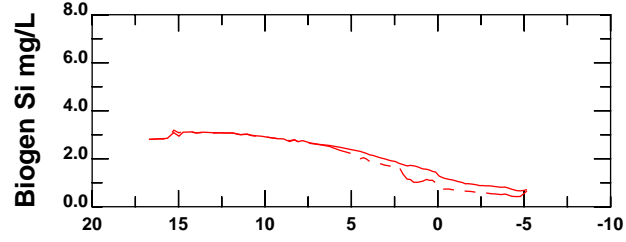
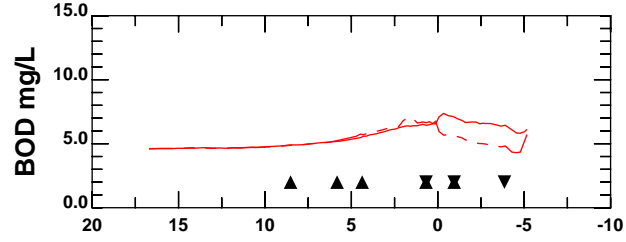
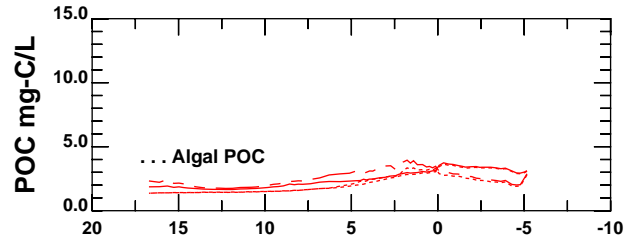
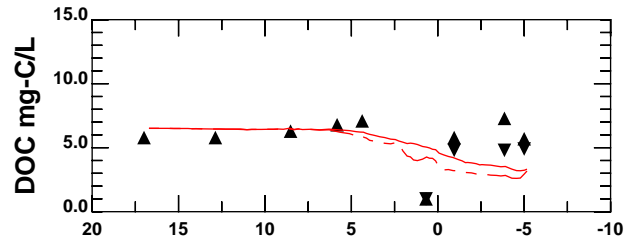
DATA  
NJHDG Aug 23,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



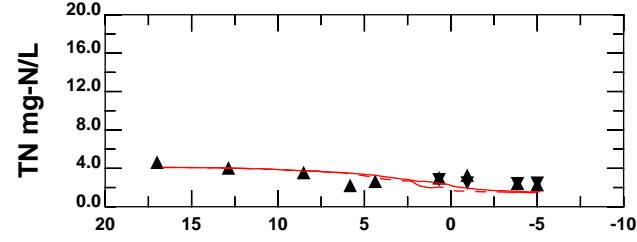
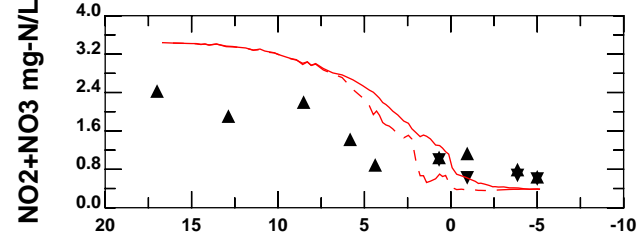
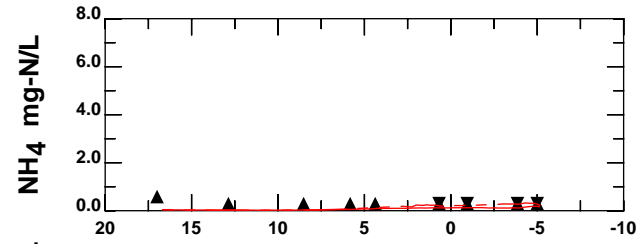
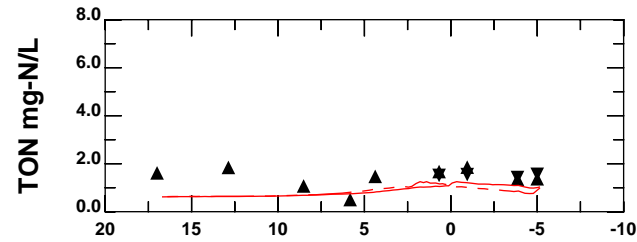
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



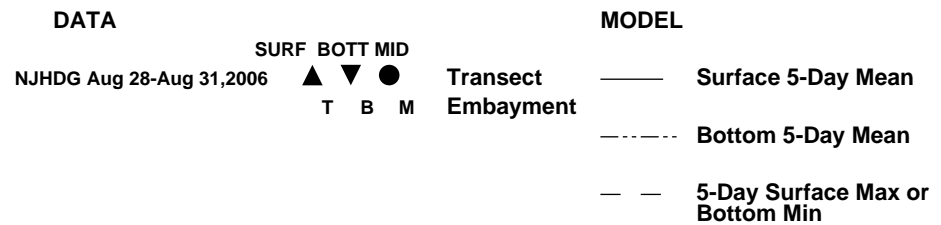
MILE FROM MOUTH PASSAIC RIVER

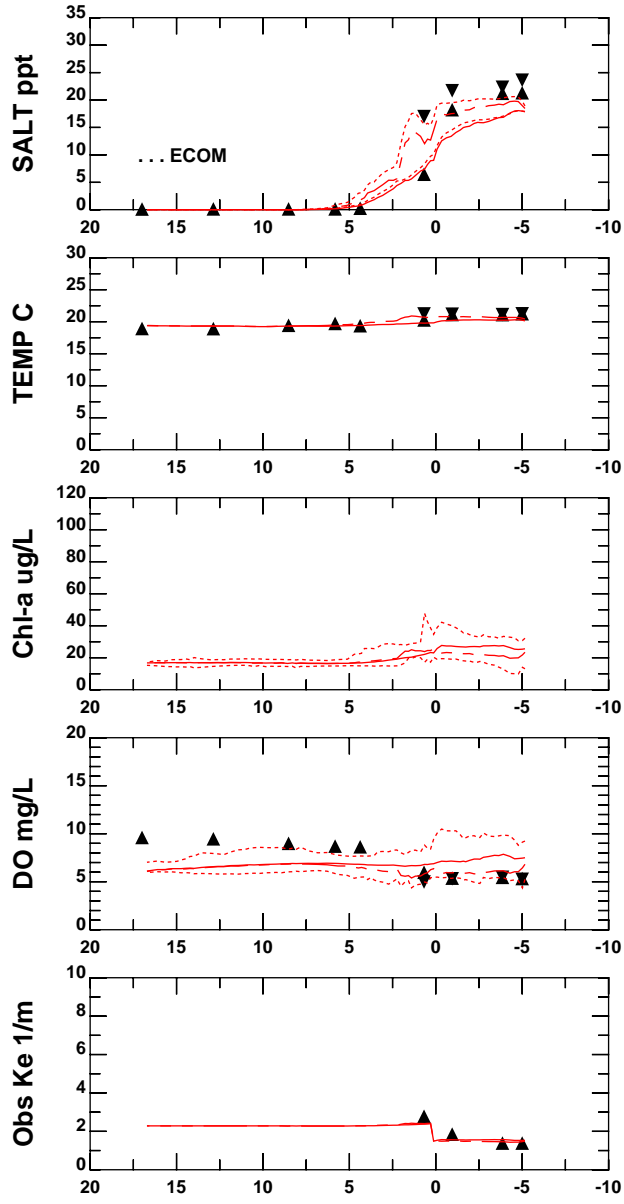
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

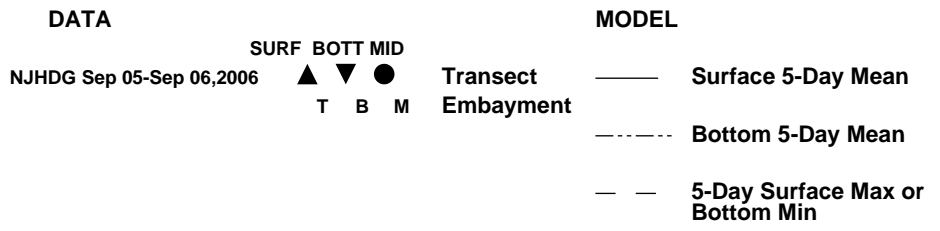
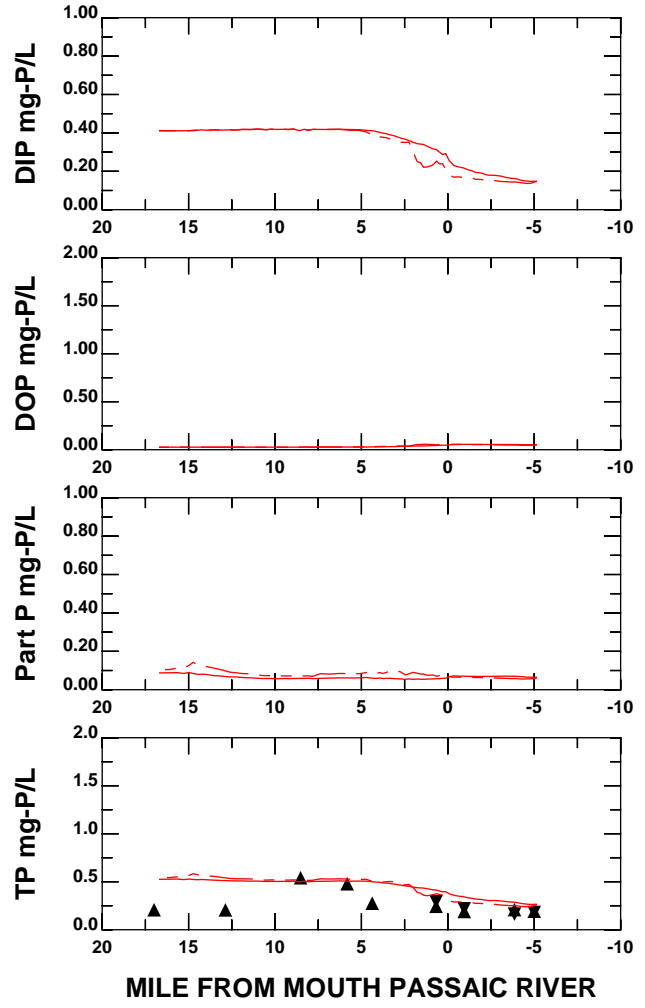


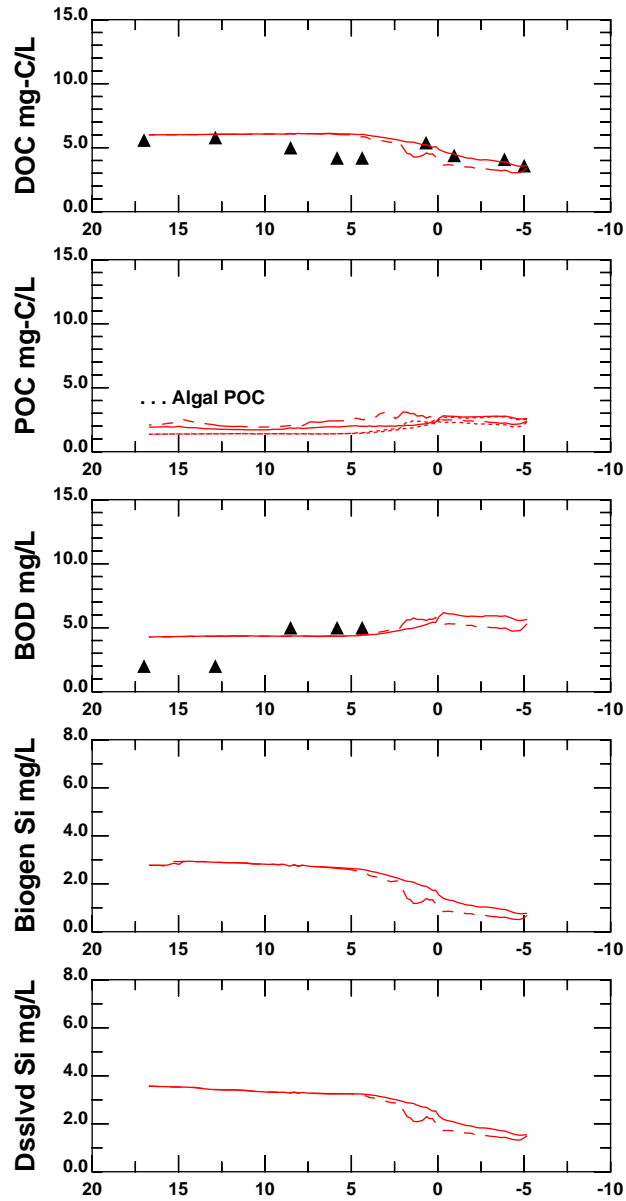
MILE FROM MOUTH PASSAIC RIVER





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506

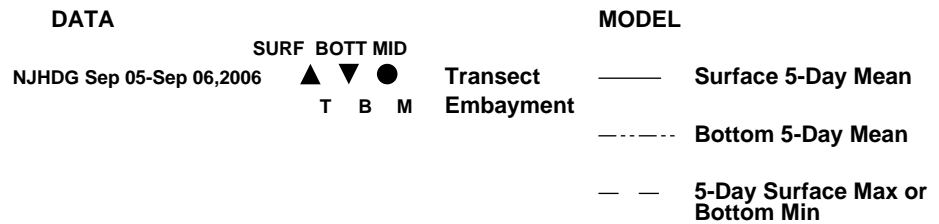
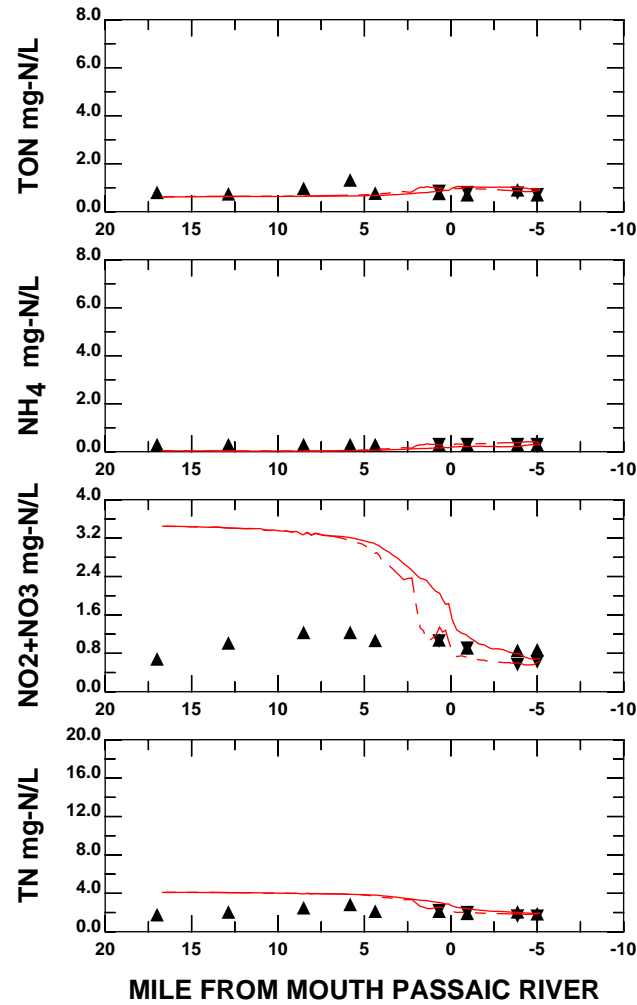


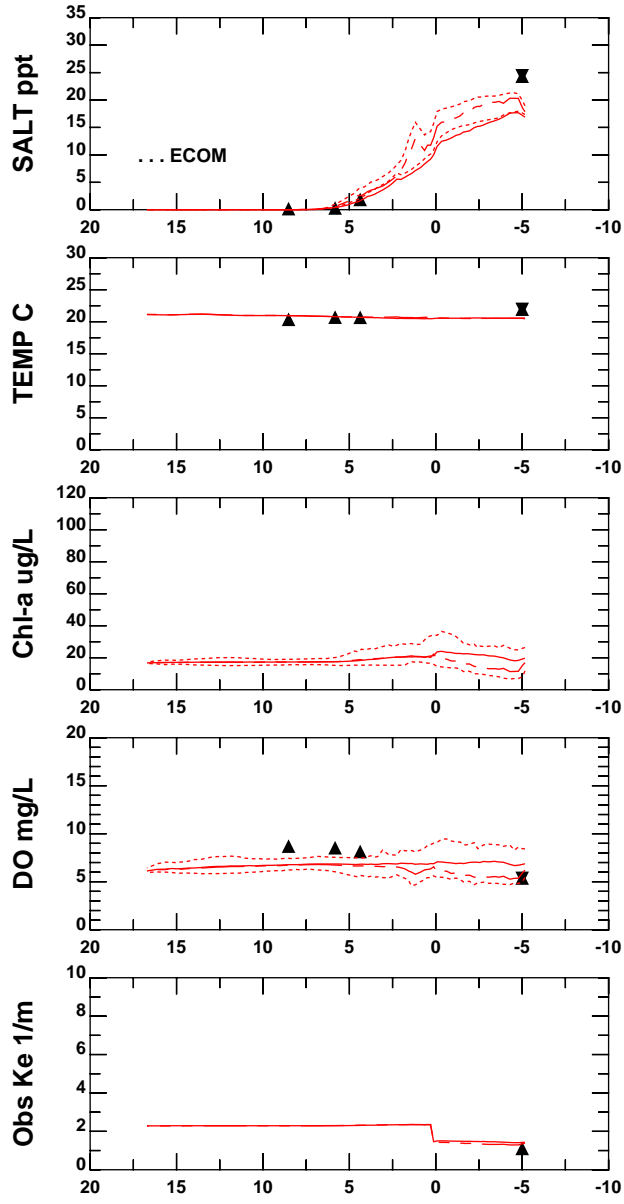


MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

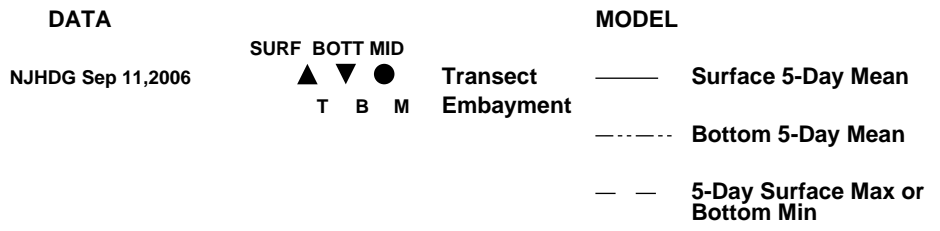
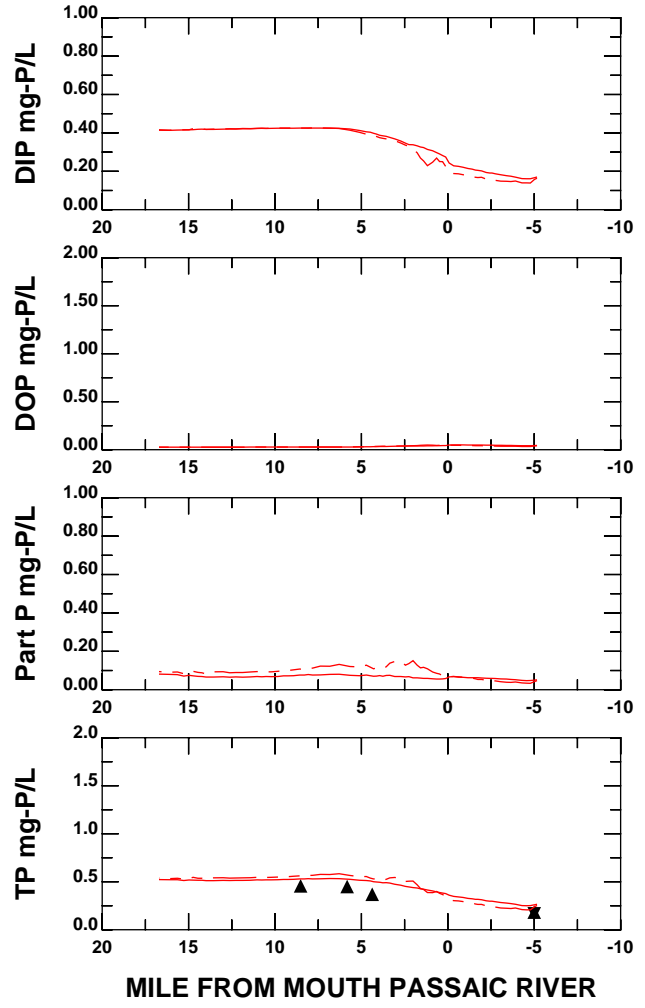
RED=model:Collapsed Grid 0506

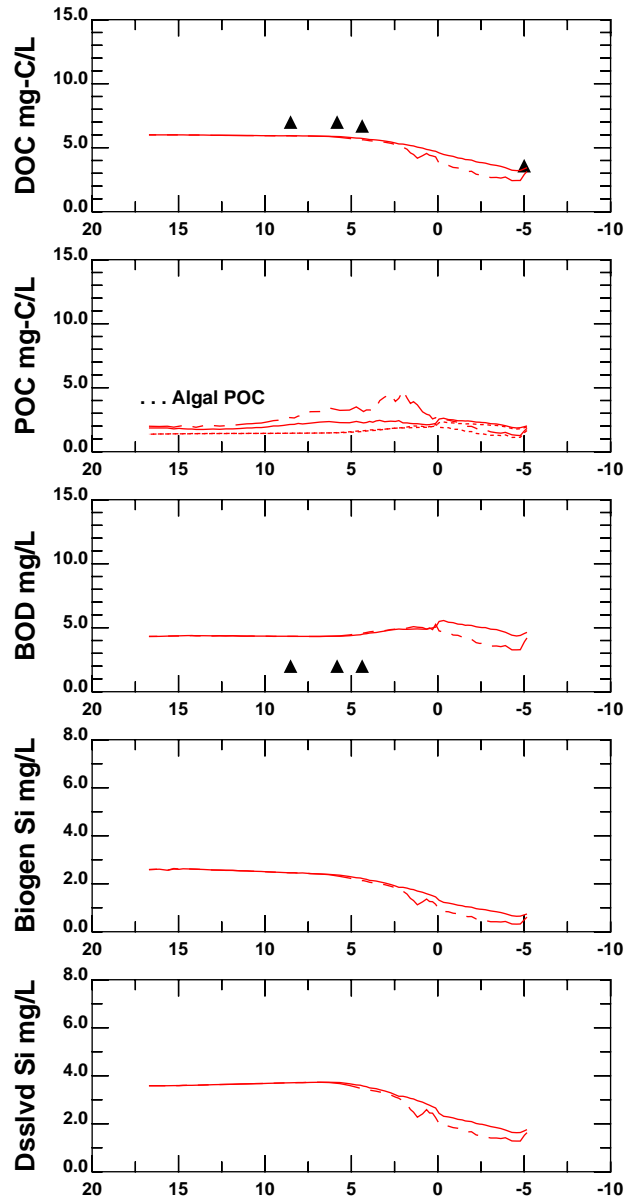




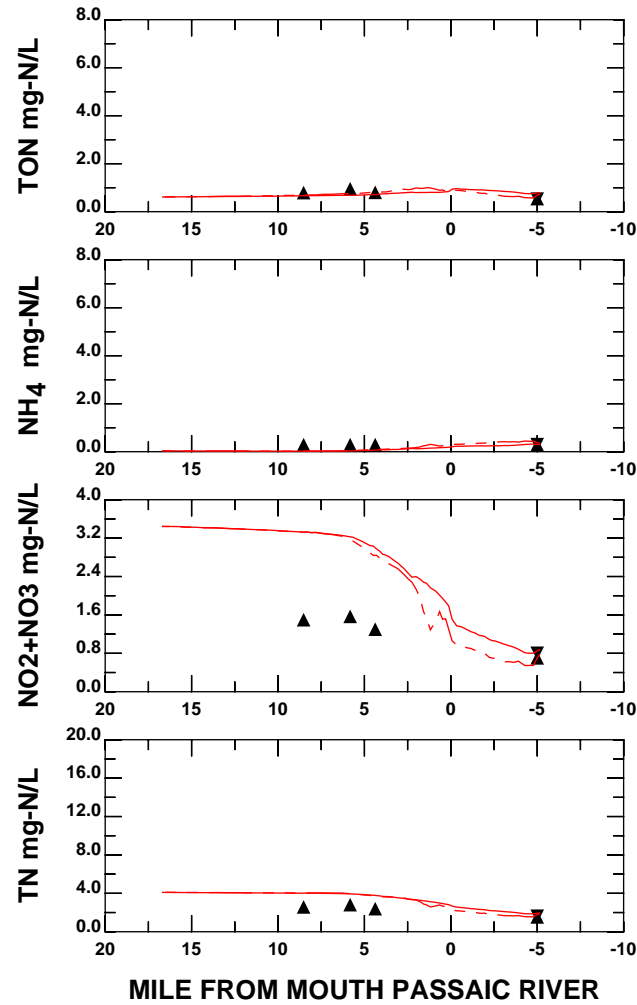
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506





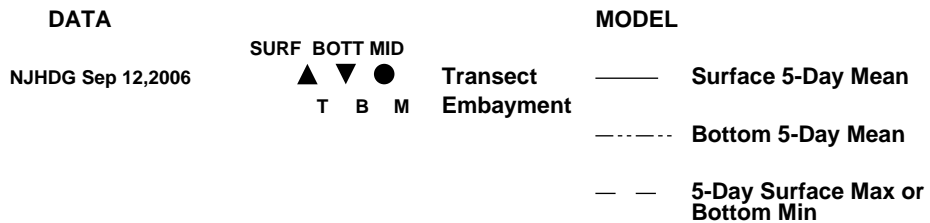
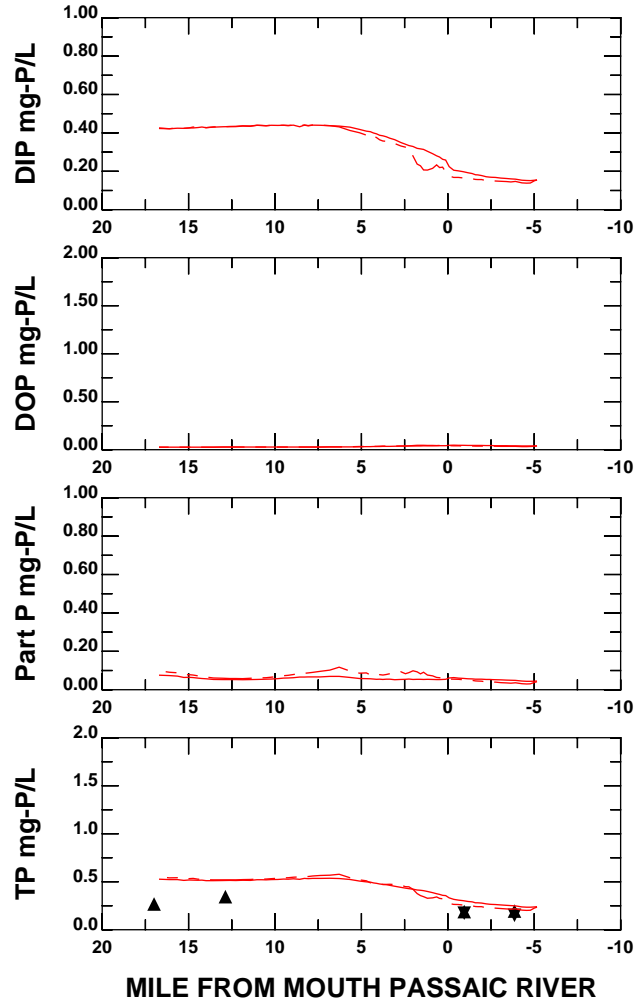
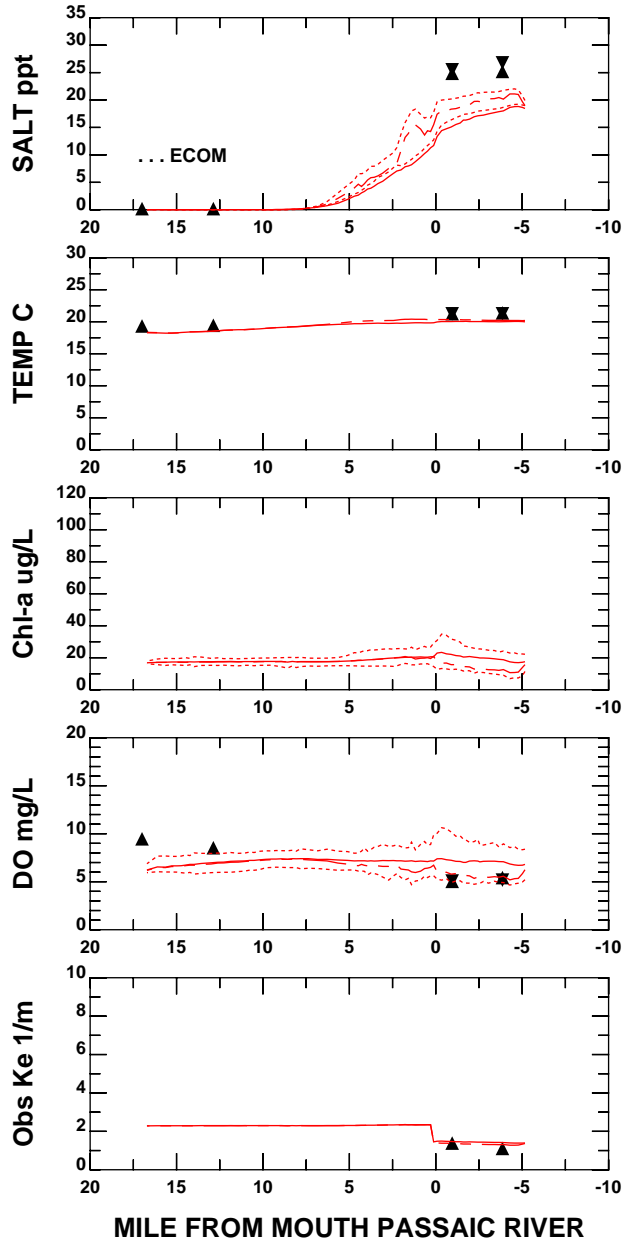
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



DATA  
 NJHDG Sep 11,2006

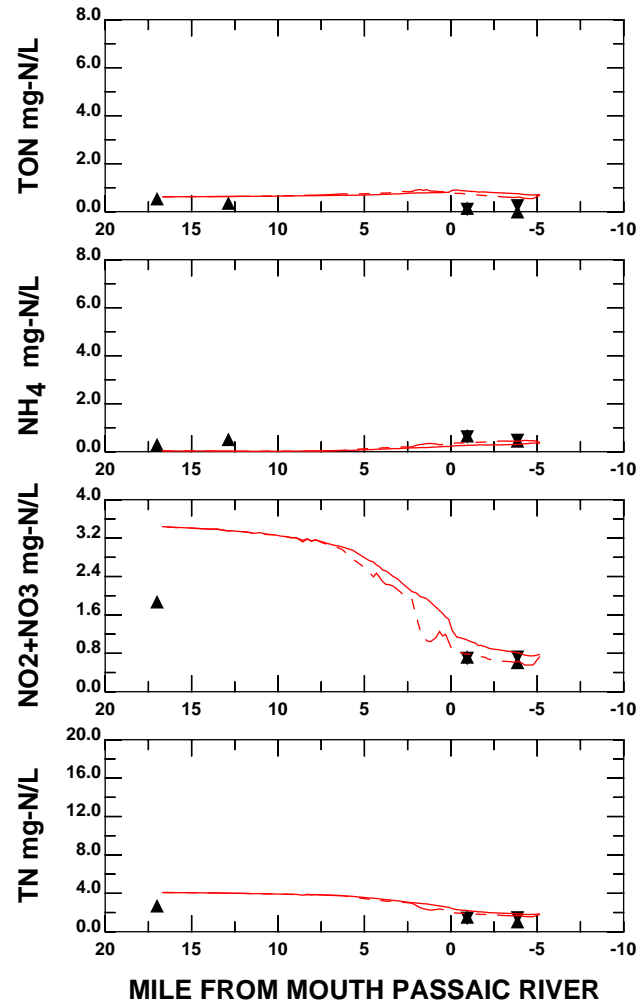
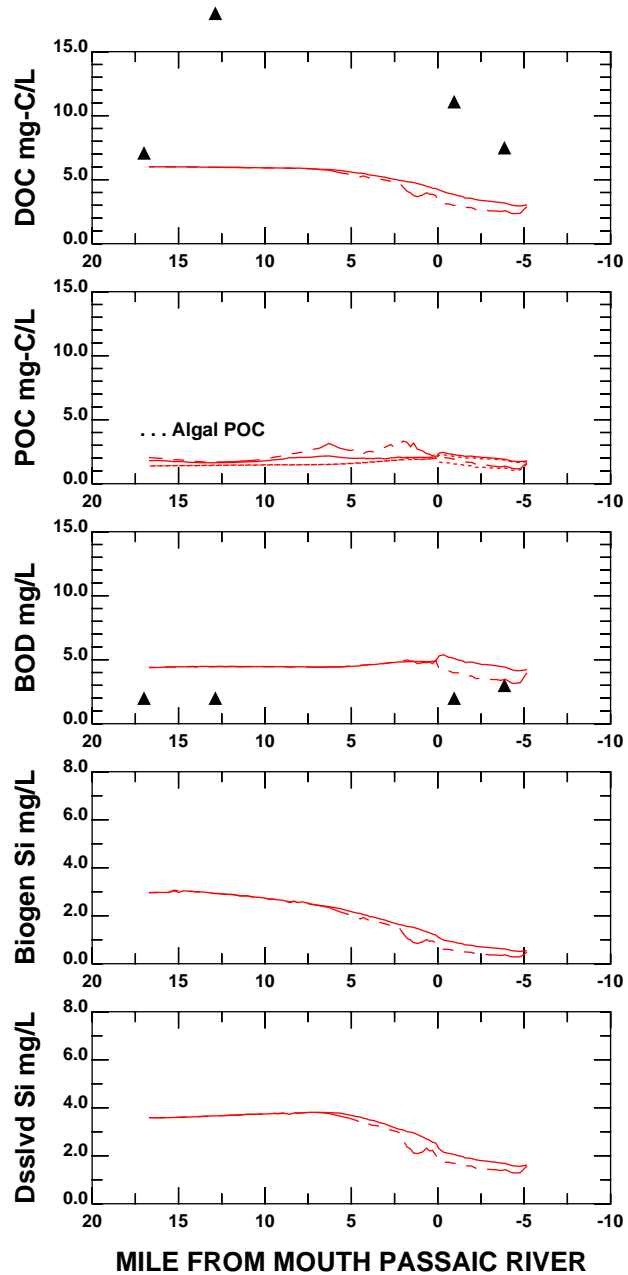
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



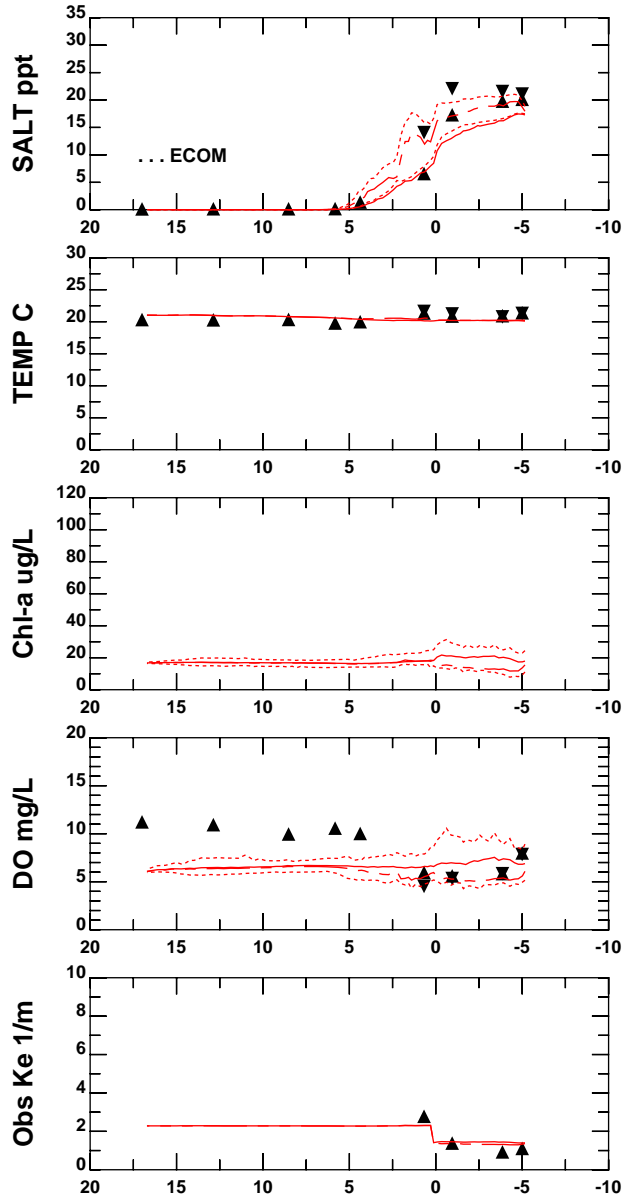


DATA  
NJHGD Sep 12, 2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

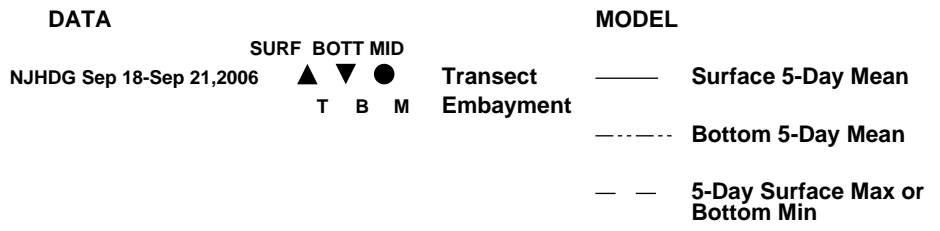
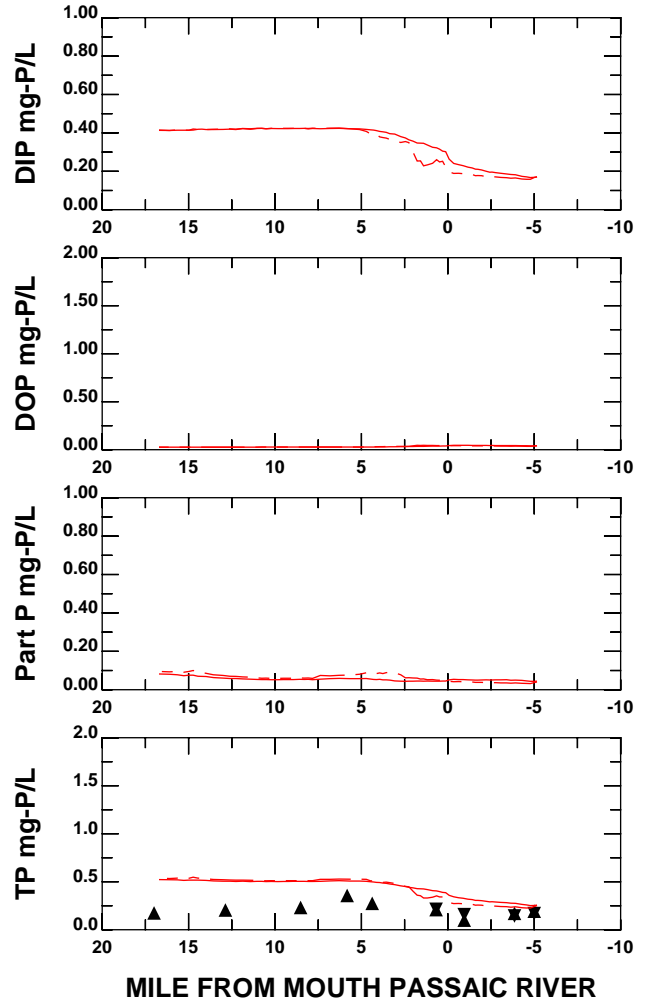
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506

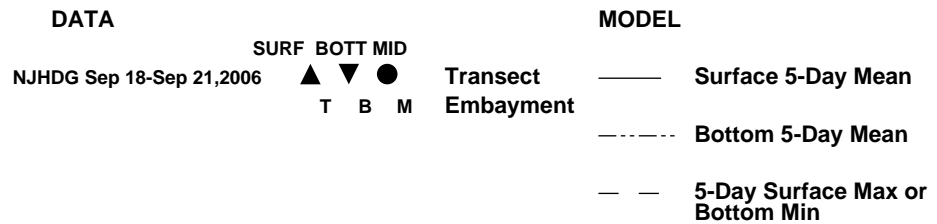
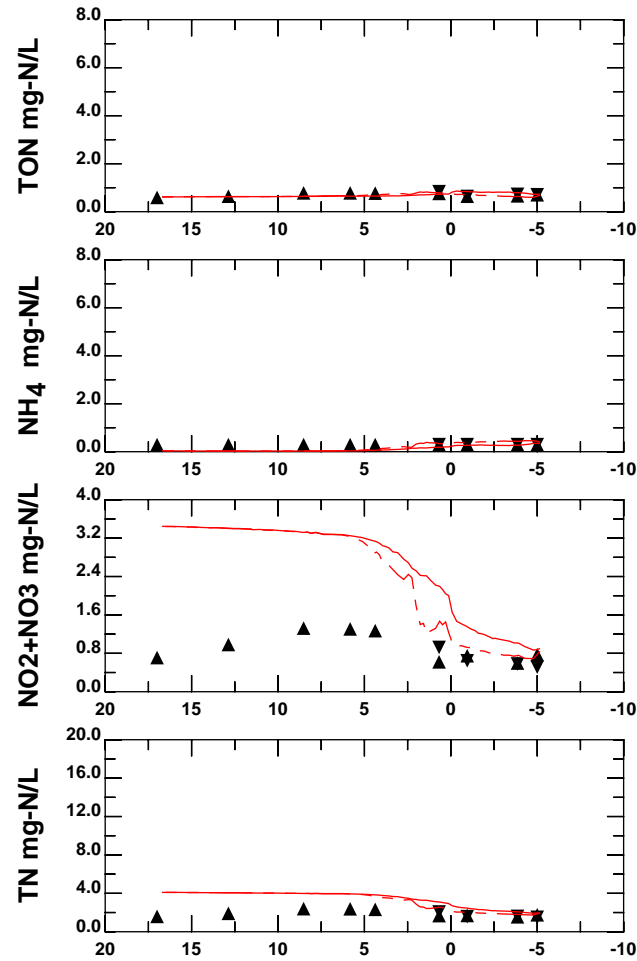
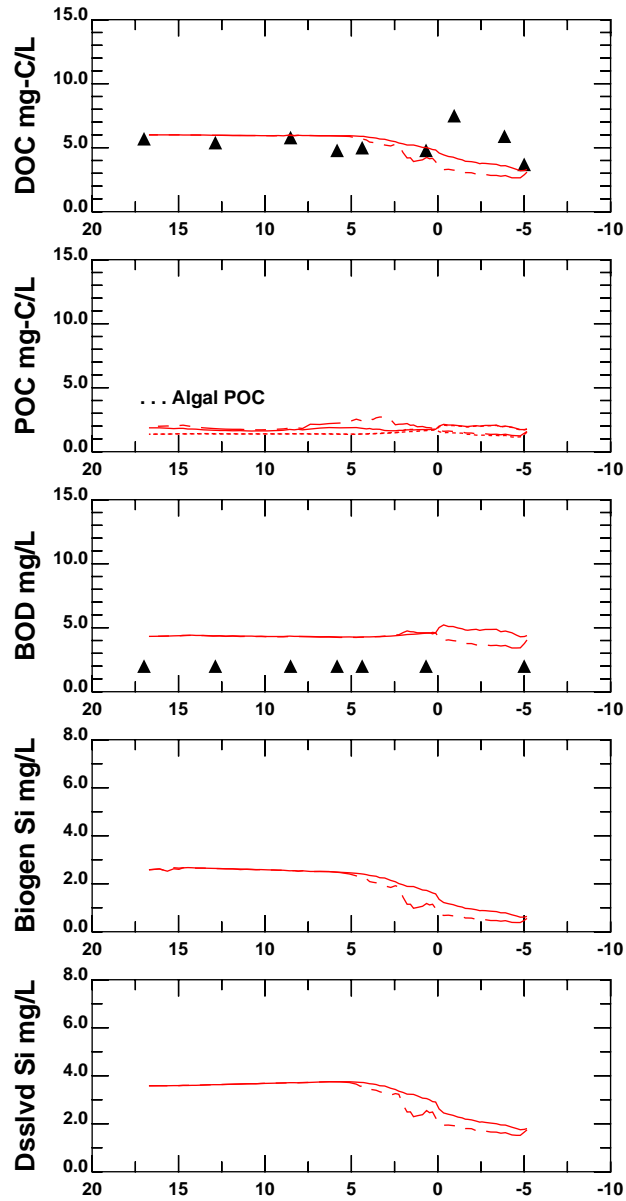


MILE FROM MOUTH PASSAIC RIVER

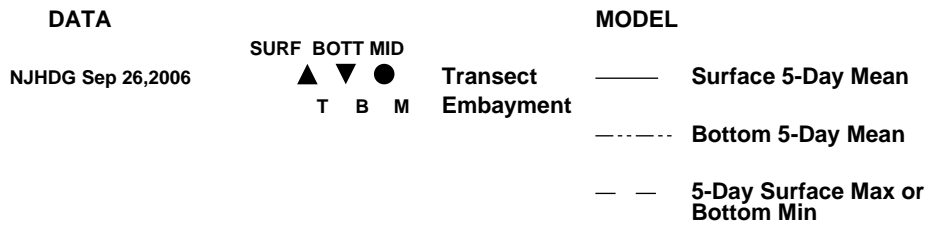
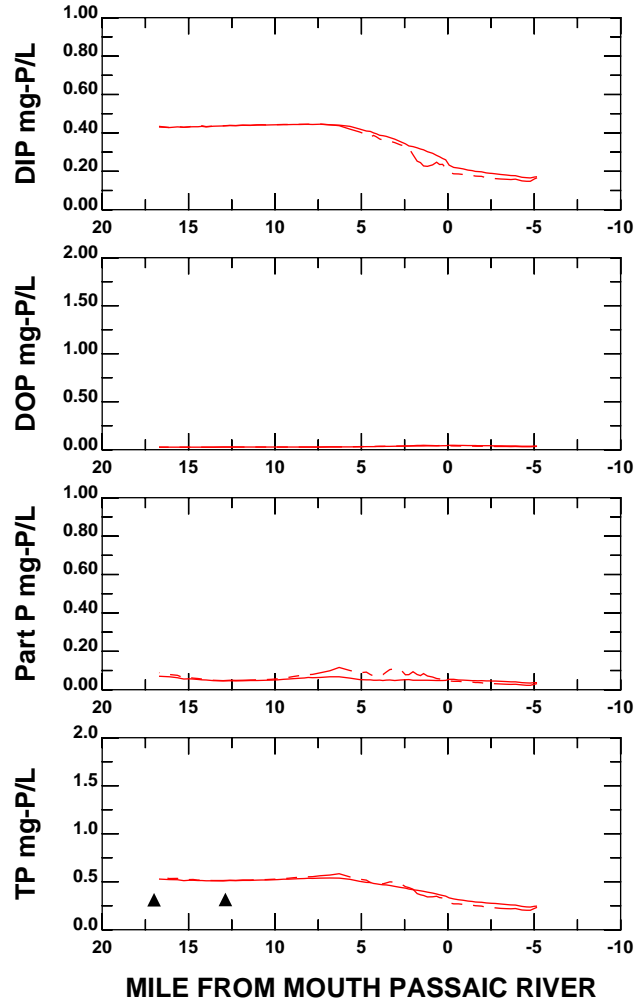
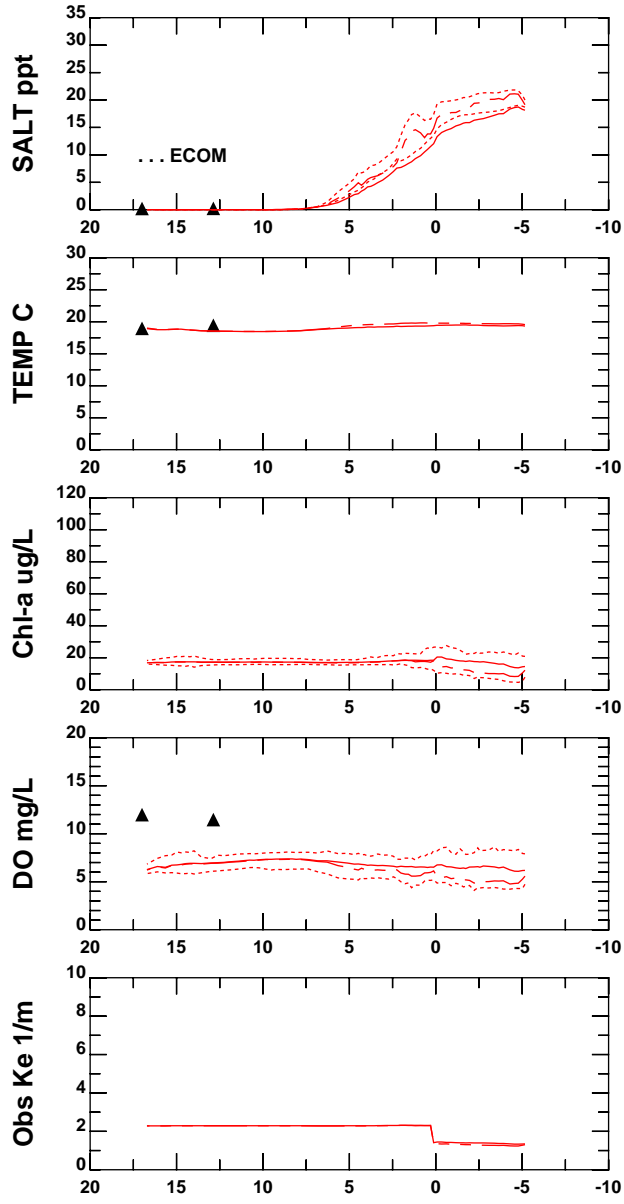
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0506

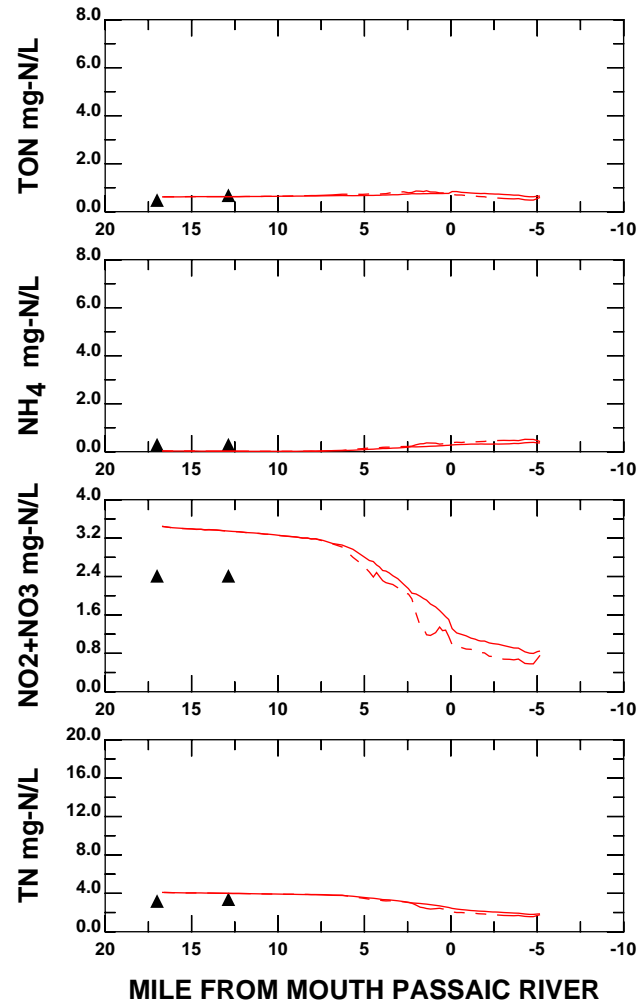
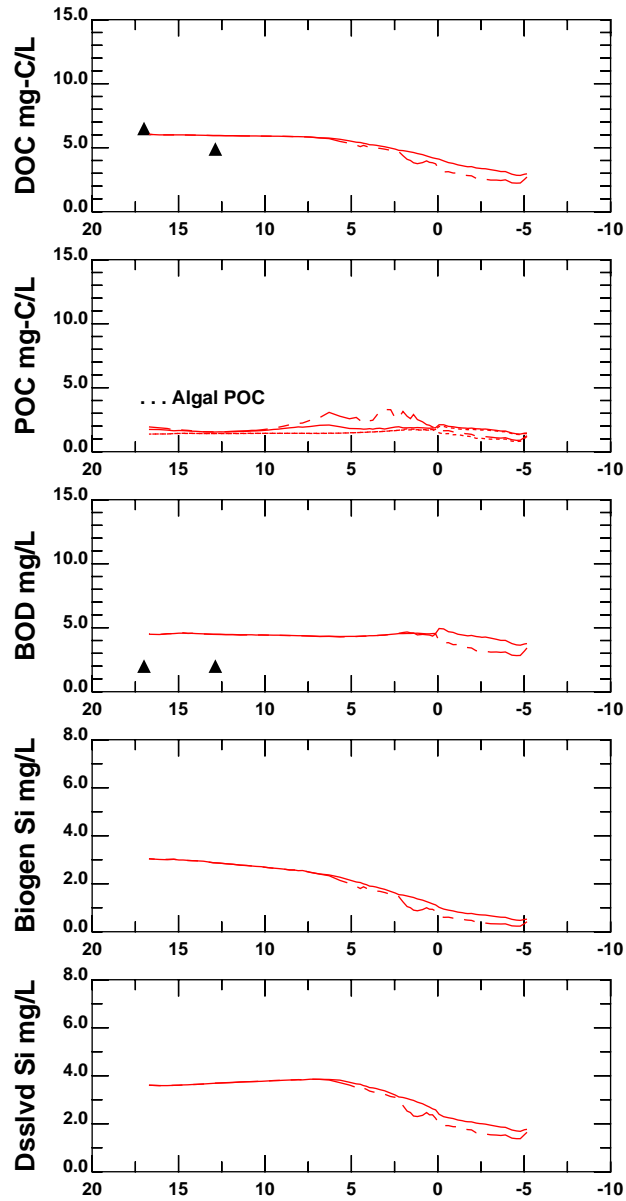




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0506



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506

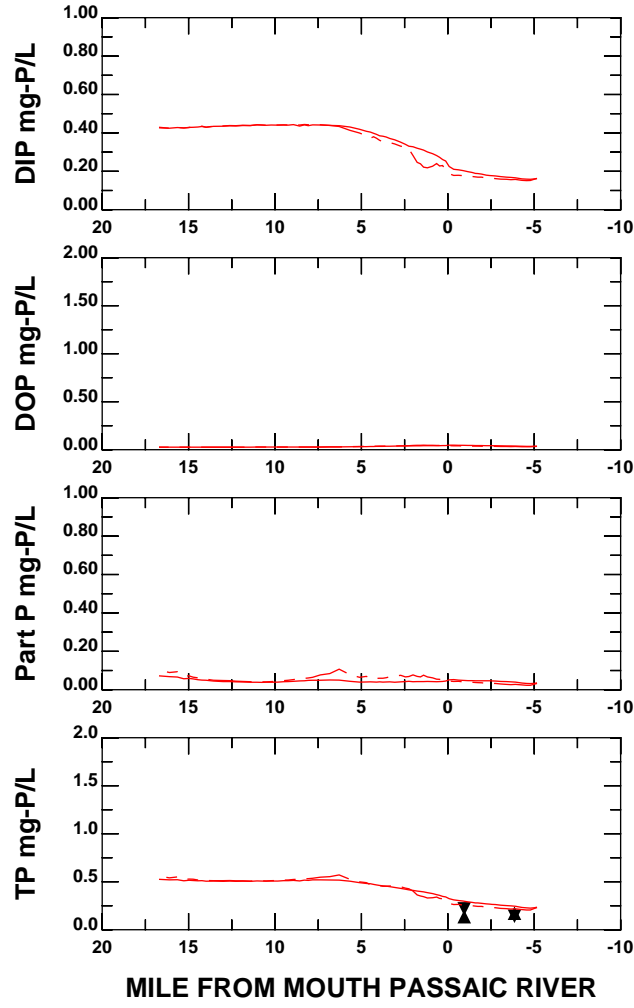
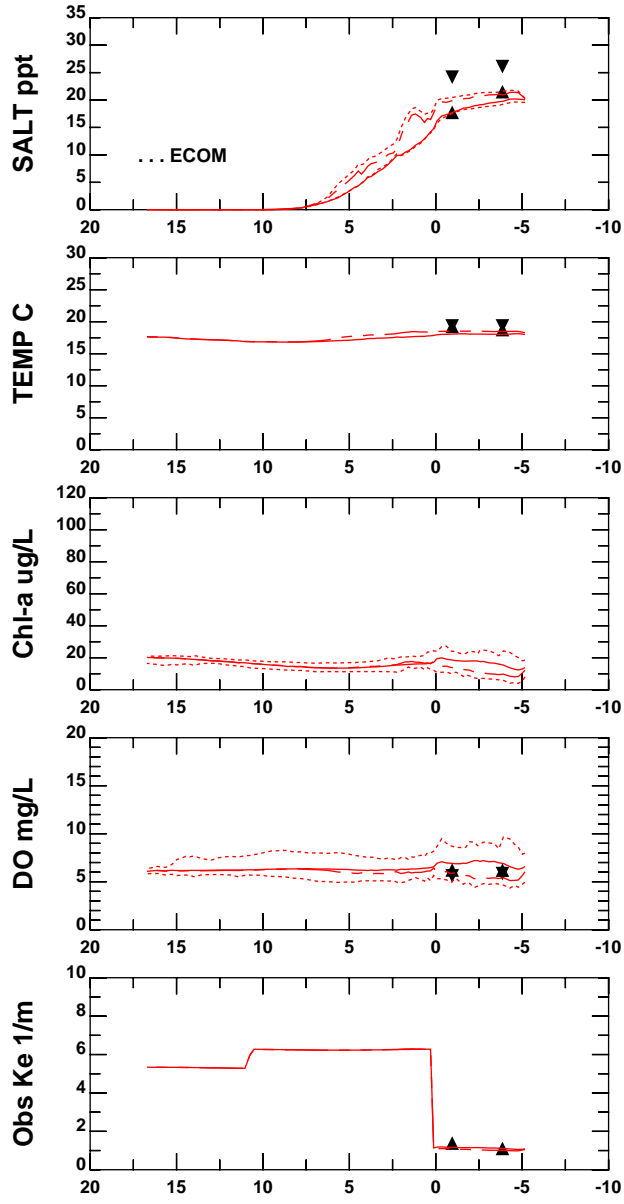


DATA  
NJHGD Sep 26, 2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0506



DATA  
NJHDG Oct 02,2006

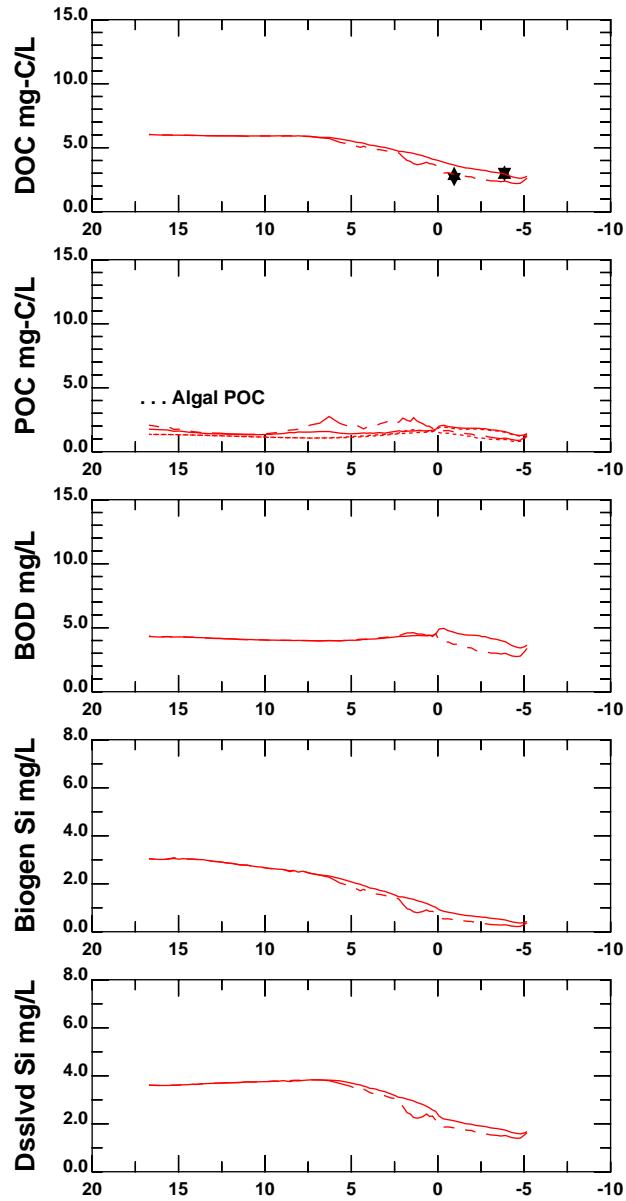
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

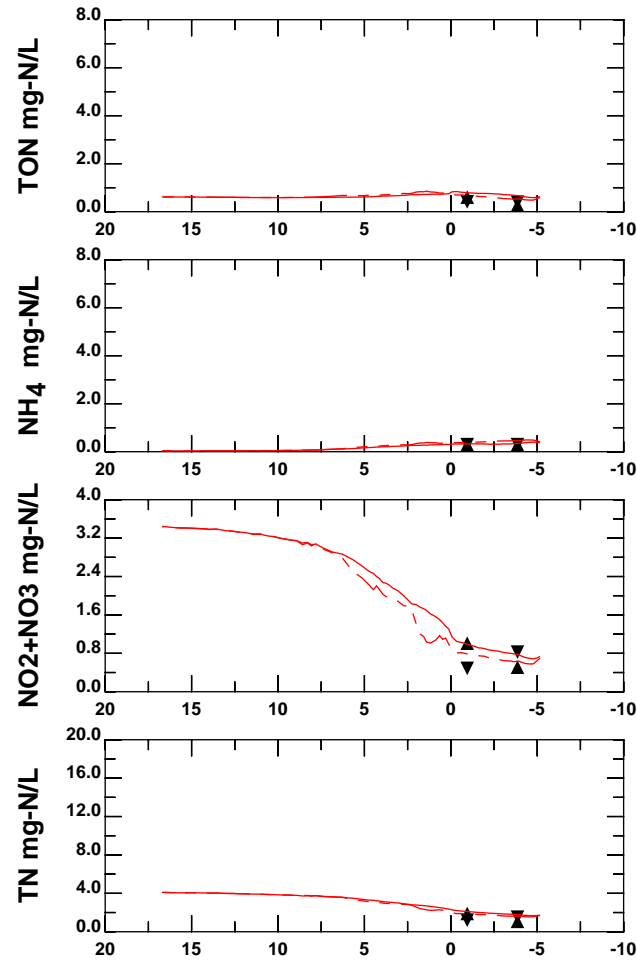
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

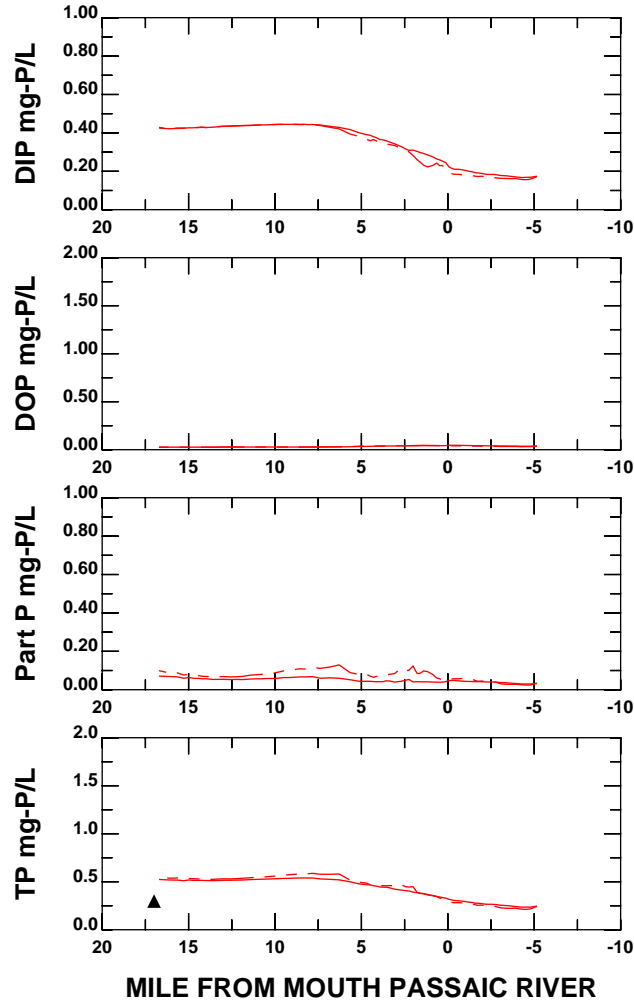
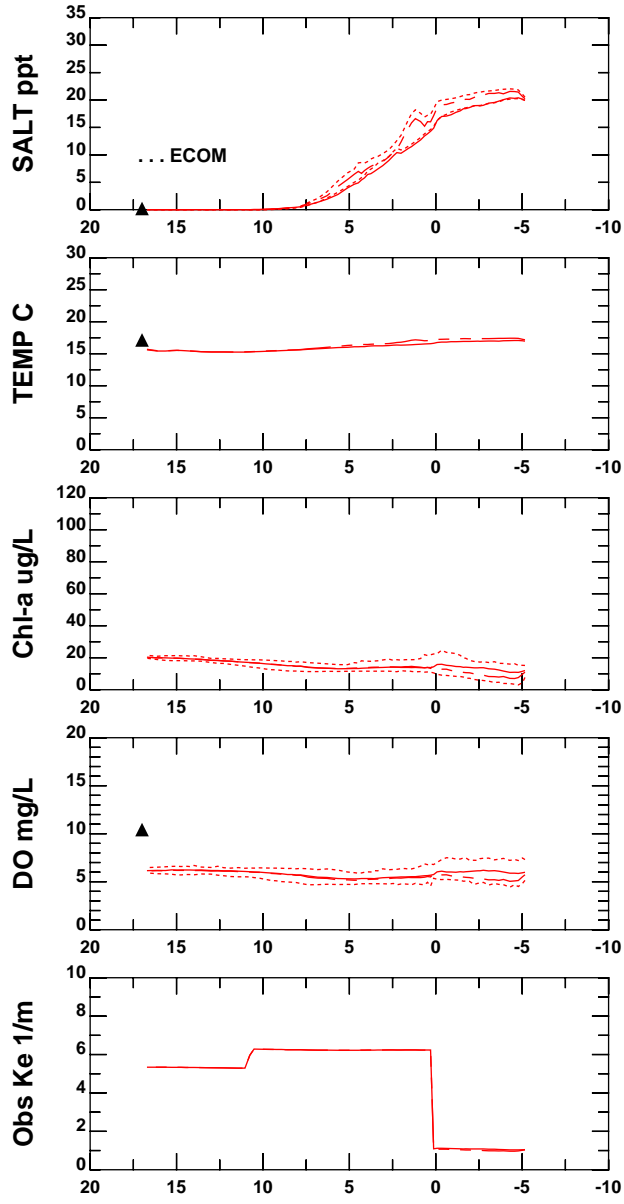
DATA  
NJHDG Oct 02,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



**DATA**  
NJHDG Oct 11,2006

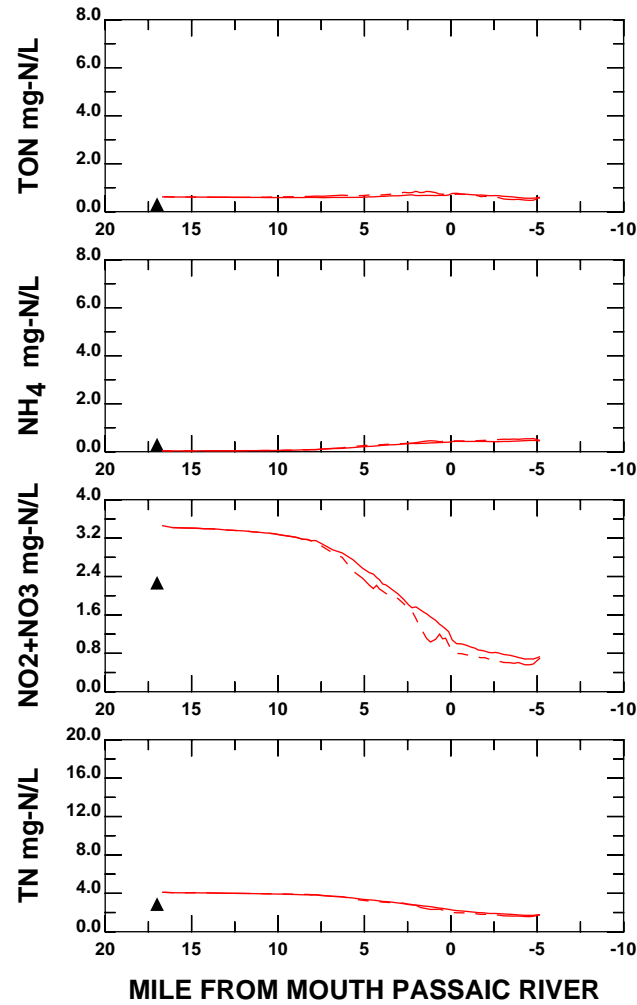
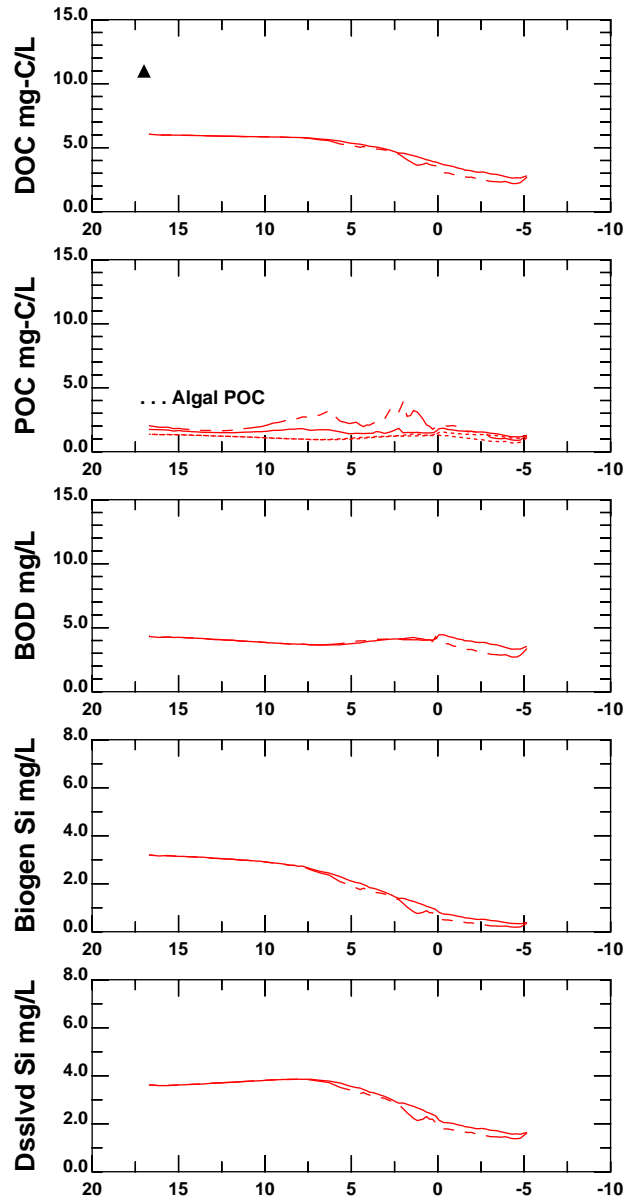
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



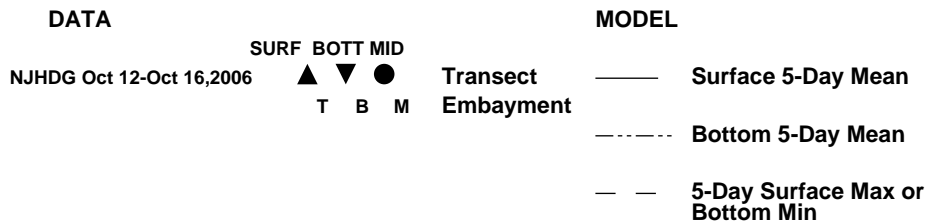
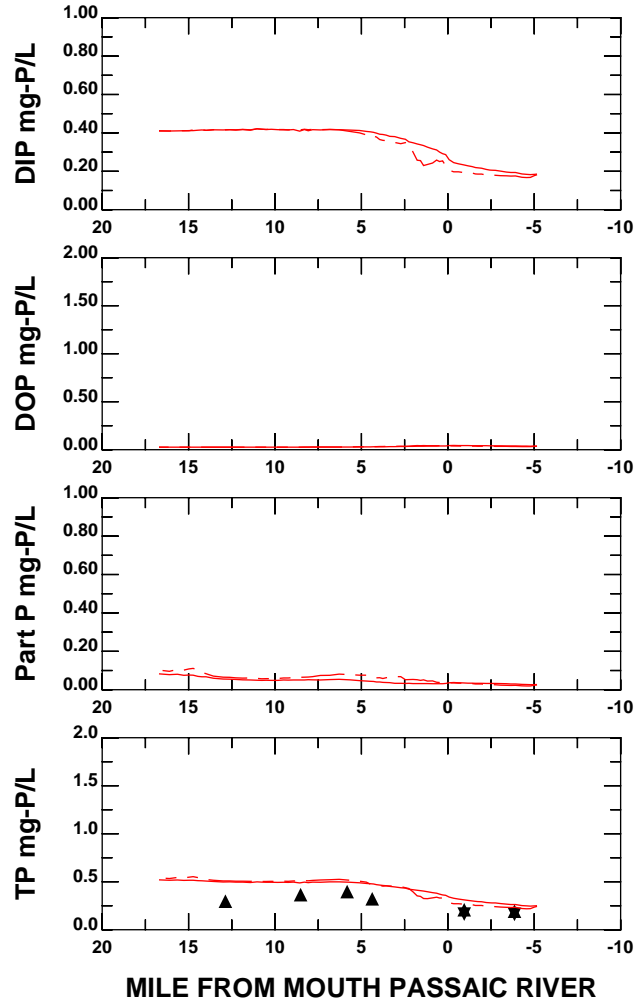
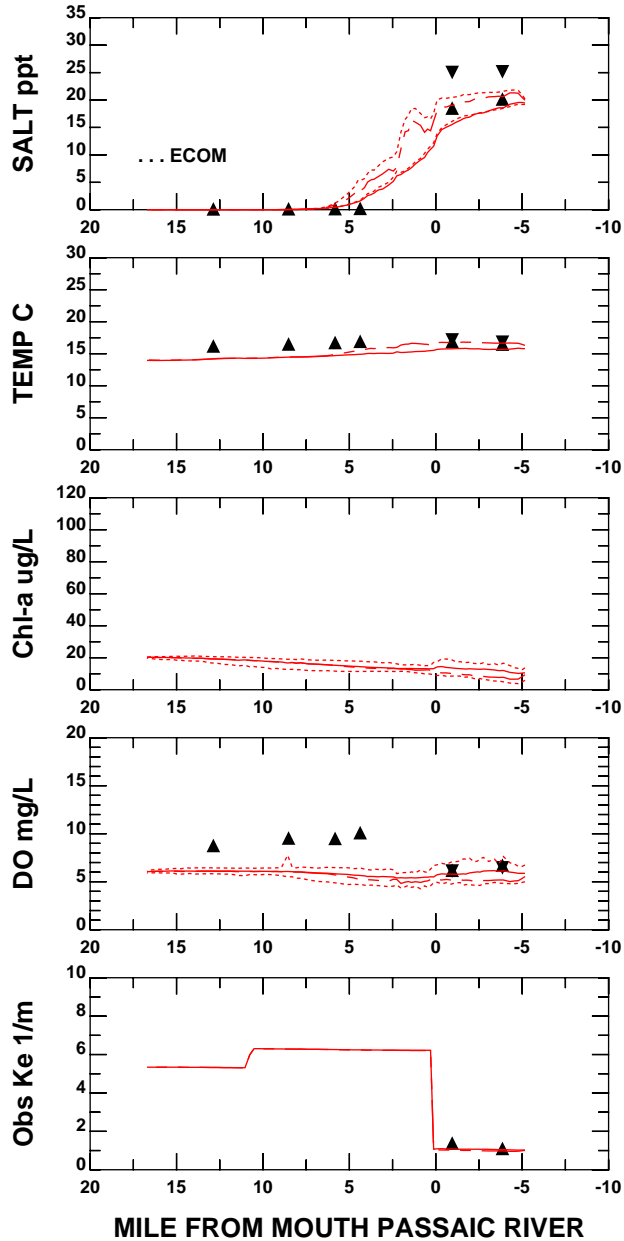


DATA  
NJHDG Oct 11,2006

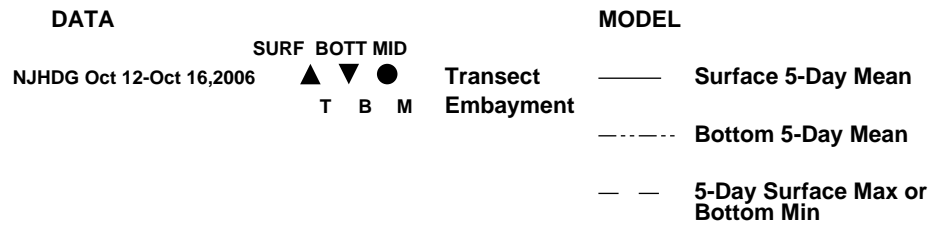
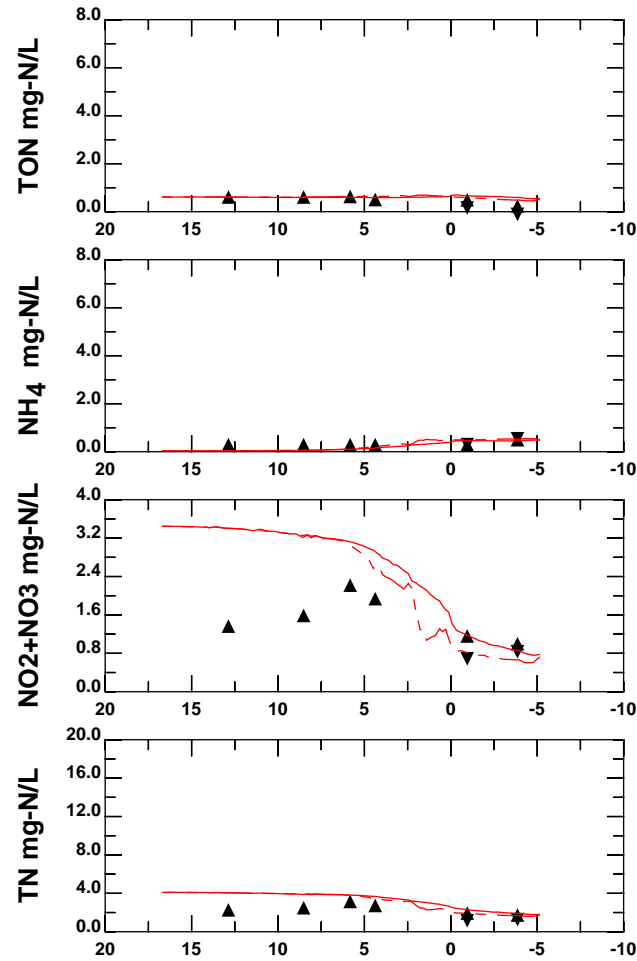
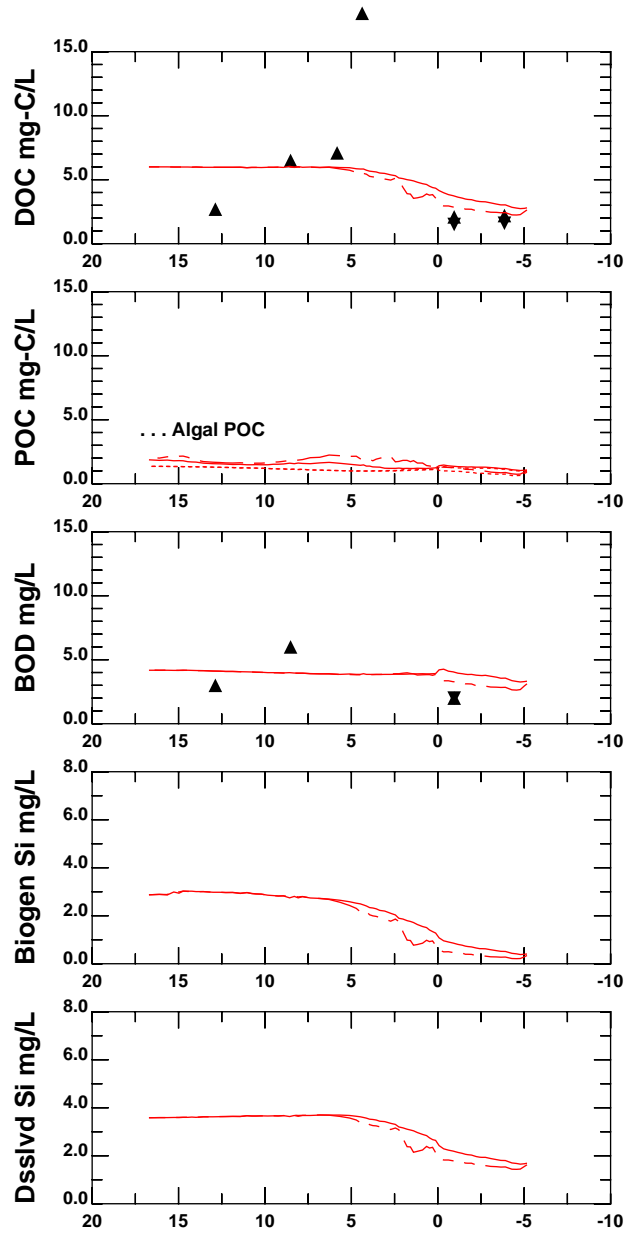
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

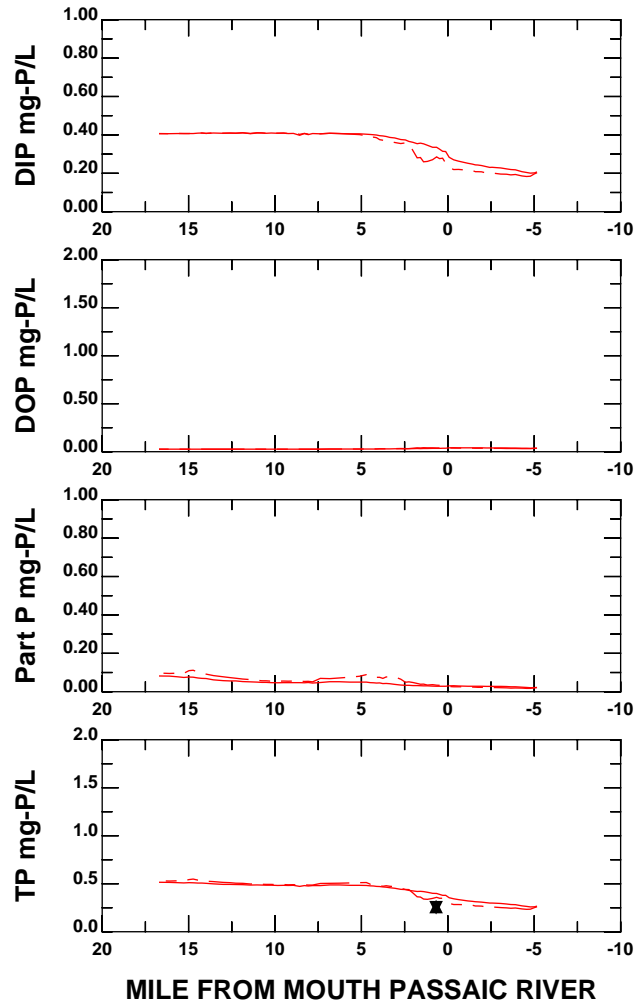
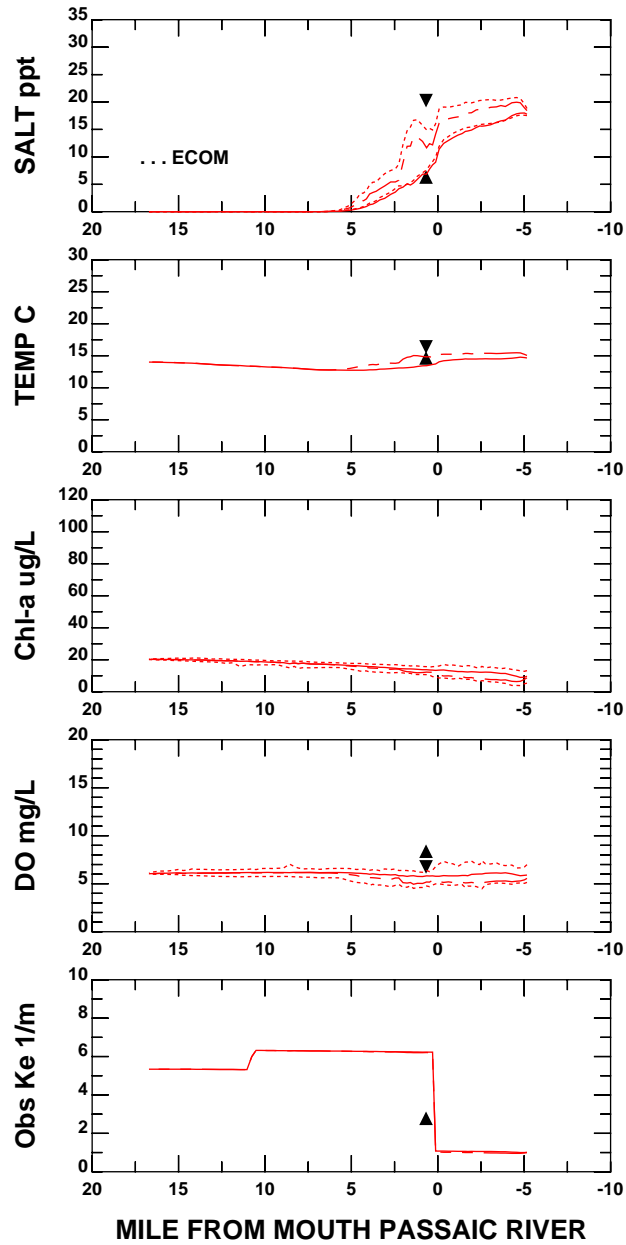
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**DATA**  
NJHDG Oct 19,2006

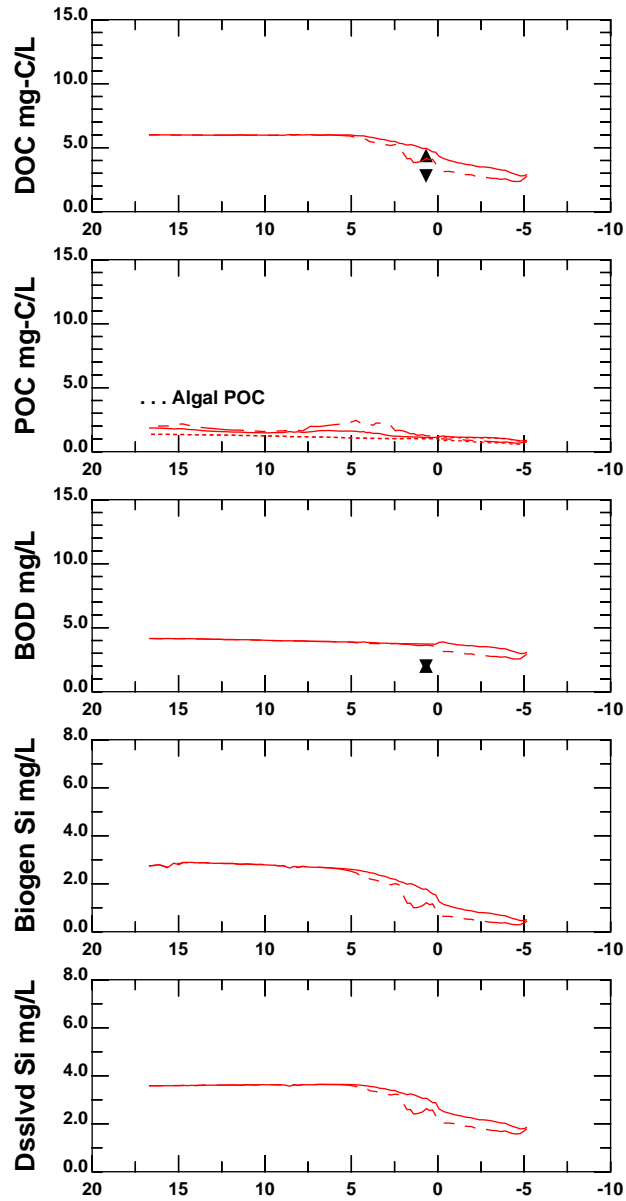
**MODEL**

SURF BOTT MID  
 ▲ ▼ ●  
 T B M

Transect  
 Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

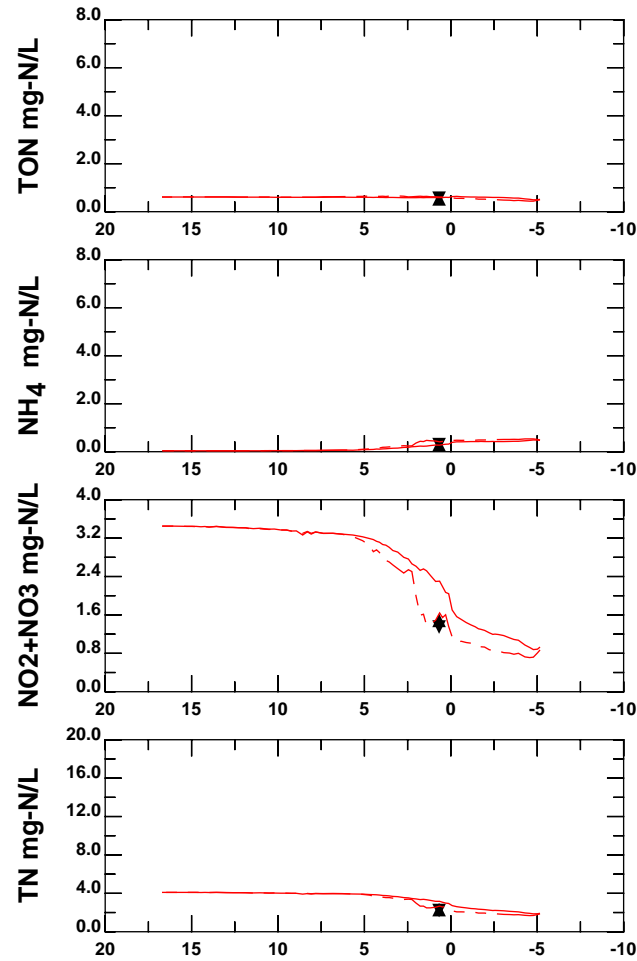
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Oct 19,2006

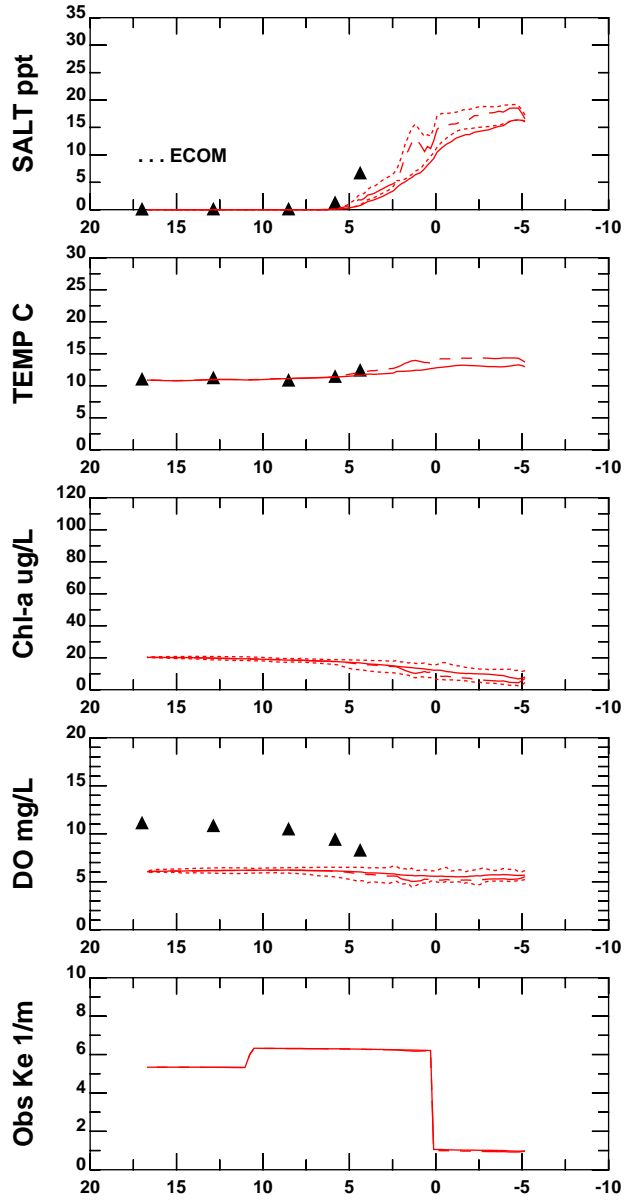
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

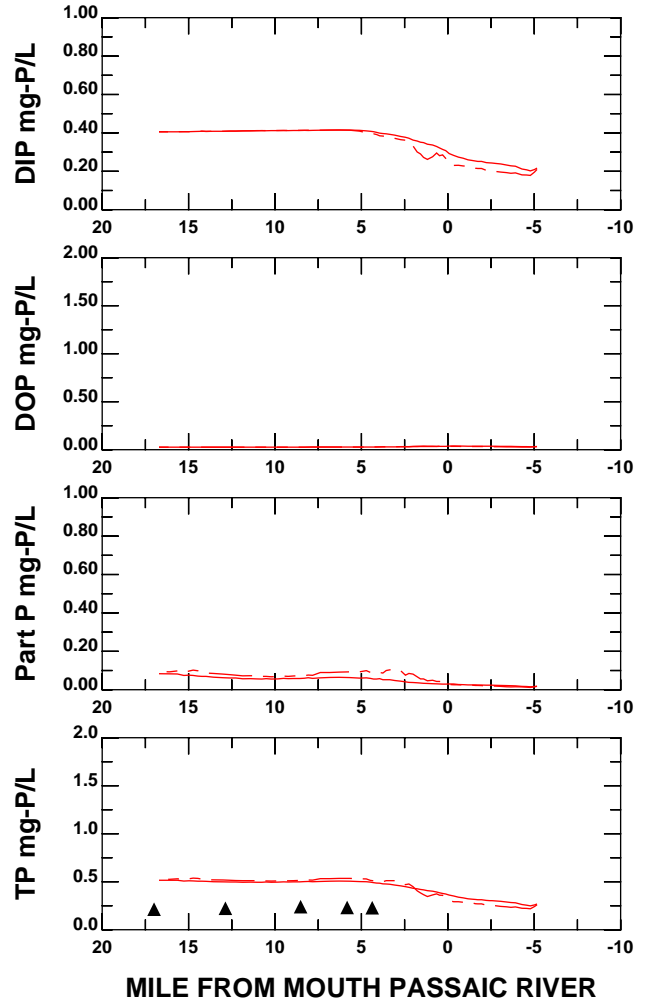
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

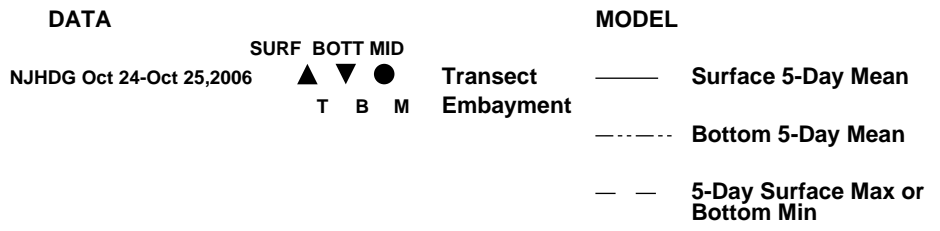


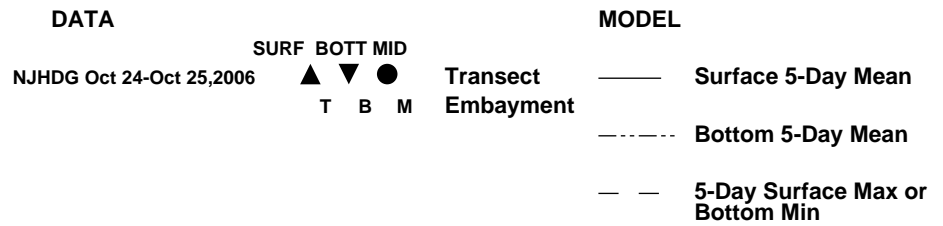
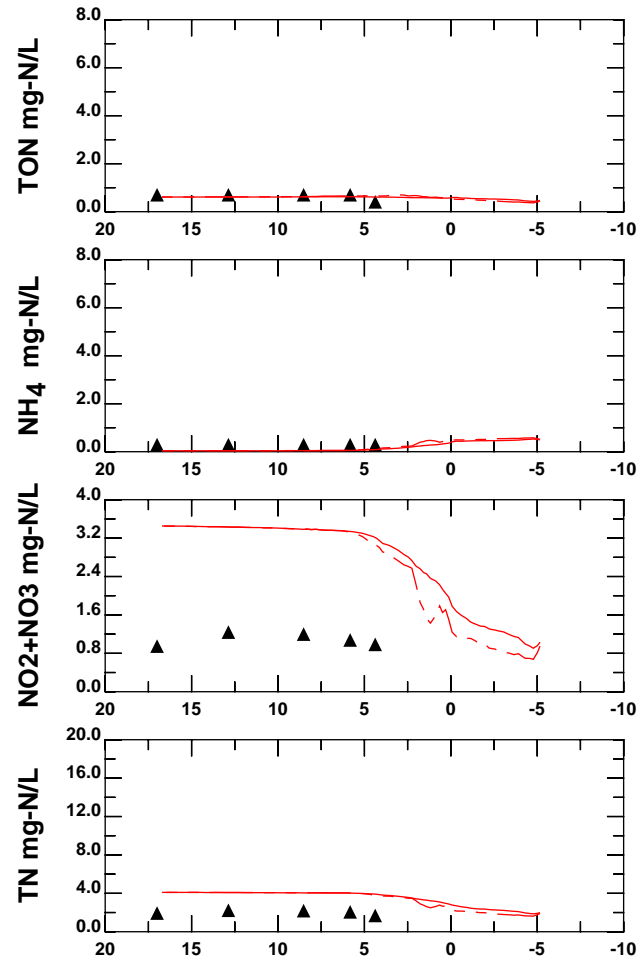
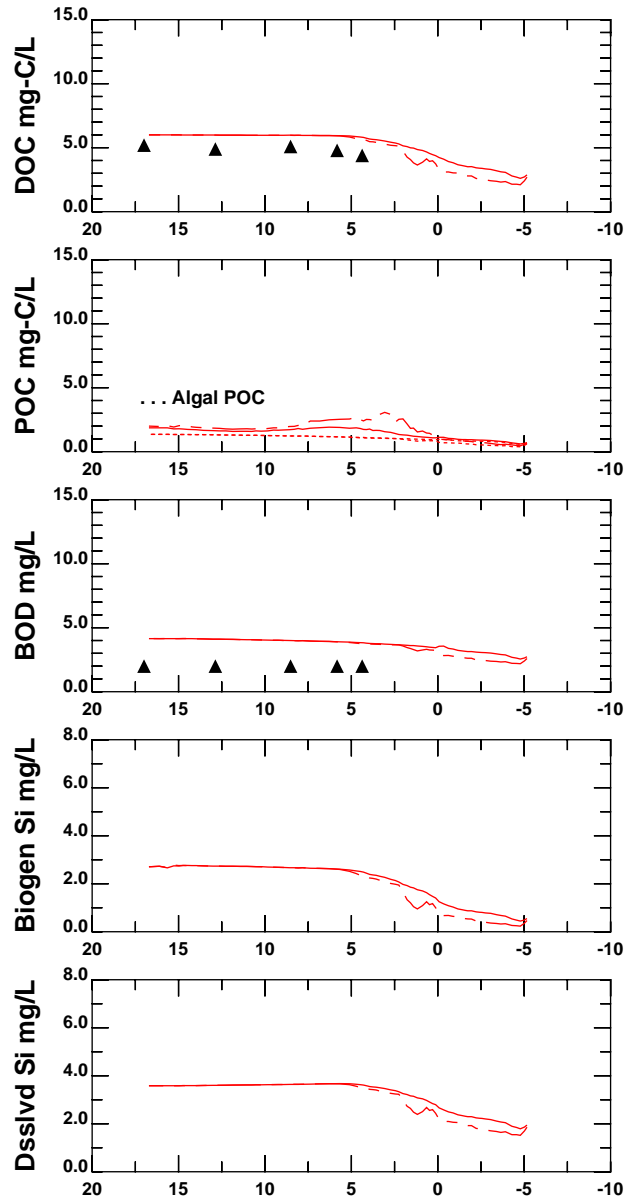
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

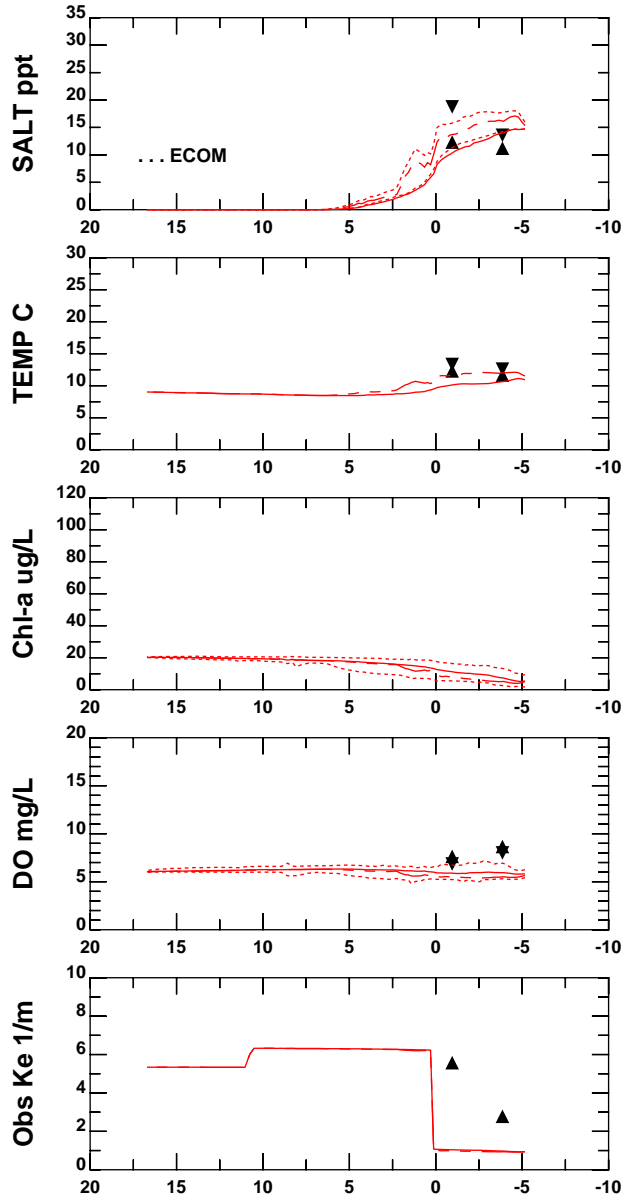


MILE FROM MOUTH PASSAIC RIVER





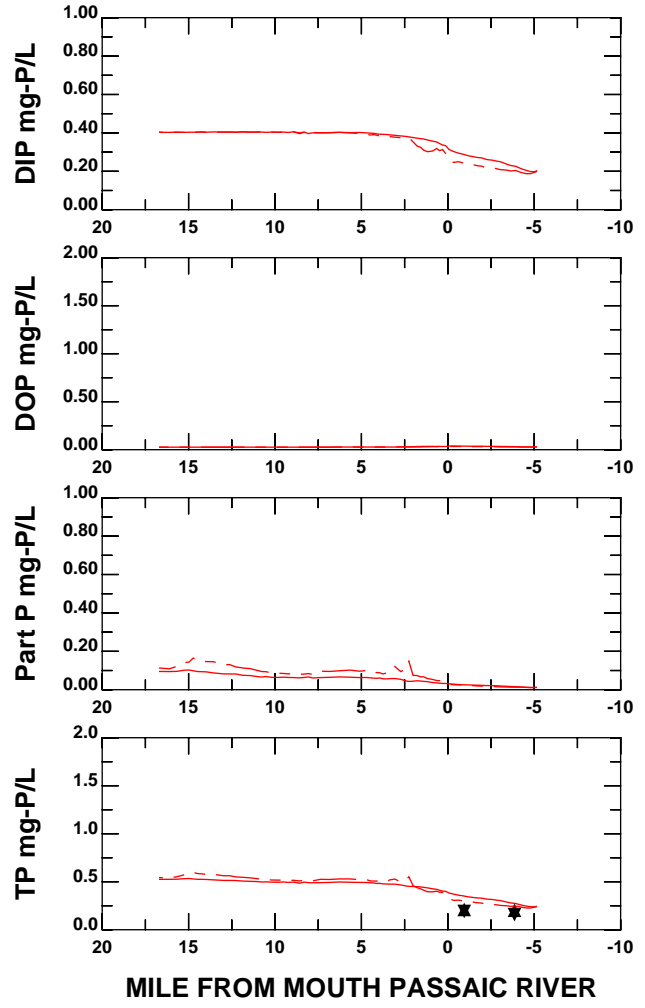
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0607



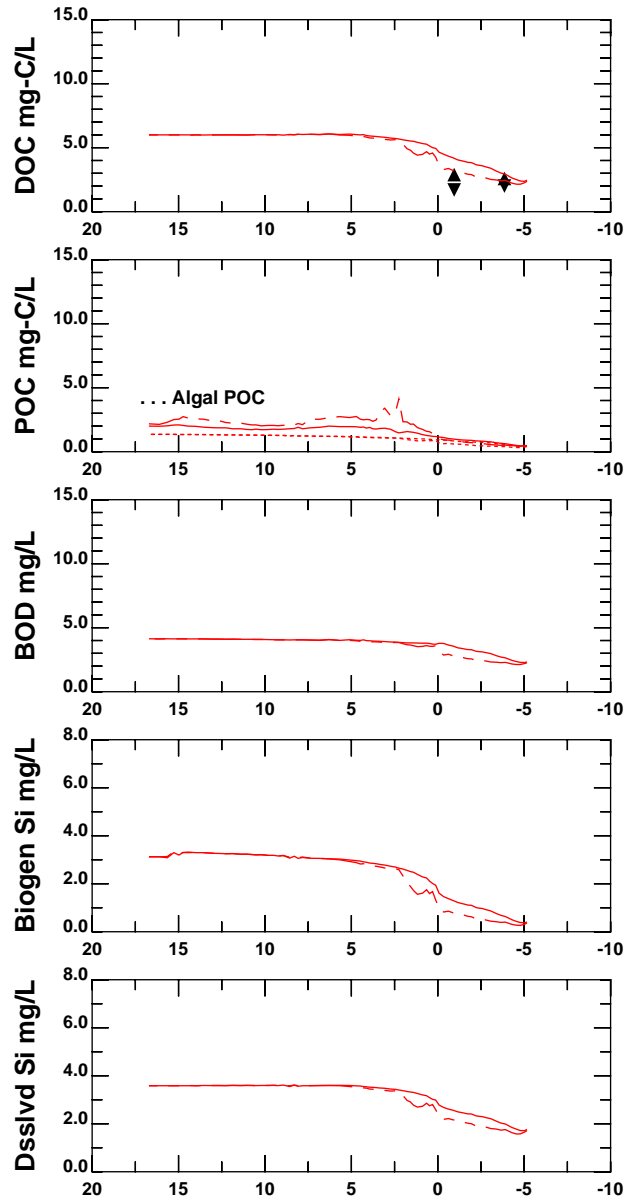
DATA  
NJHDG Oct 30,2006

MODEL

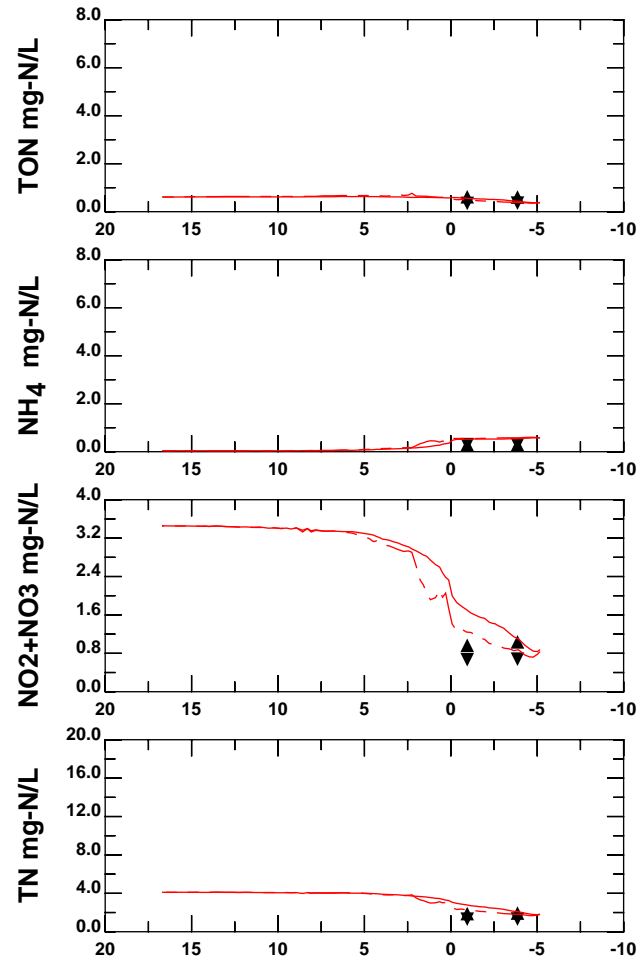
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

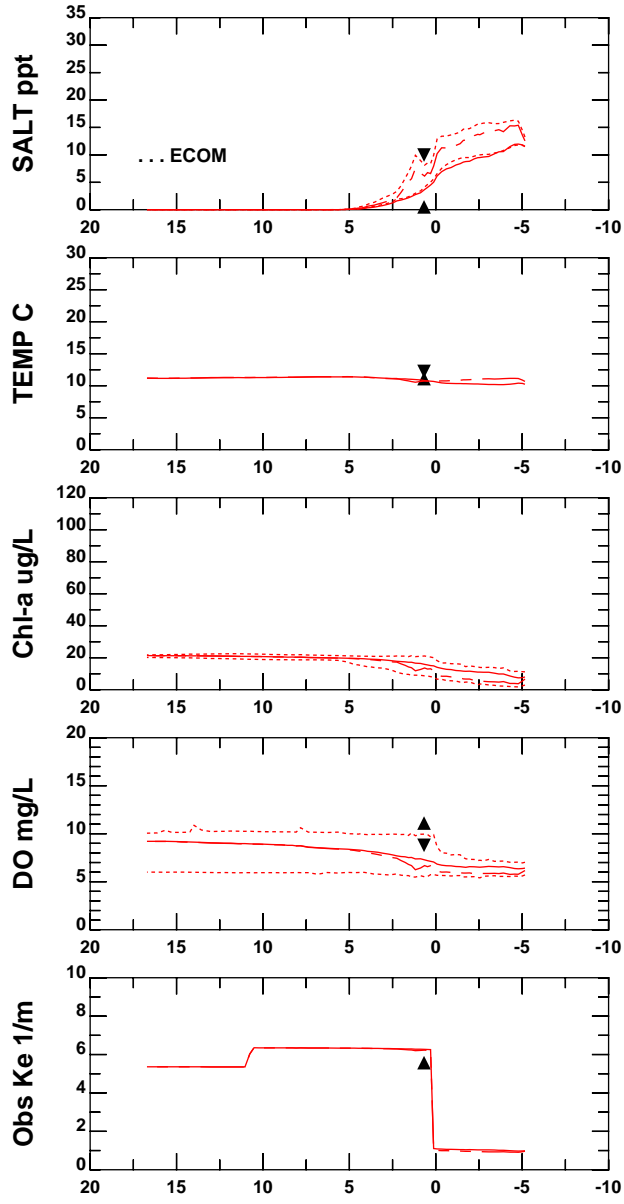
DATA  
NJHDG Oct 30,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

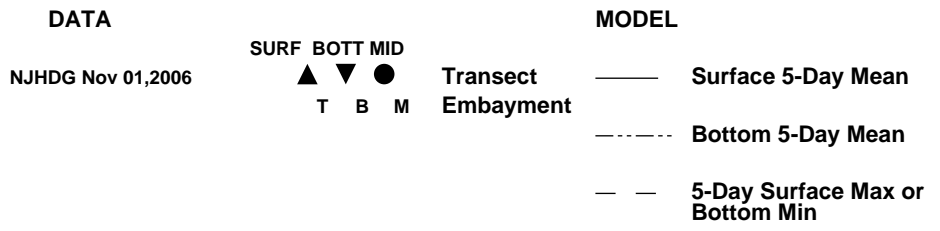
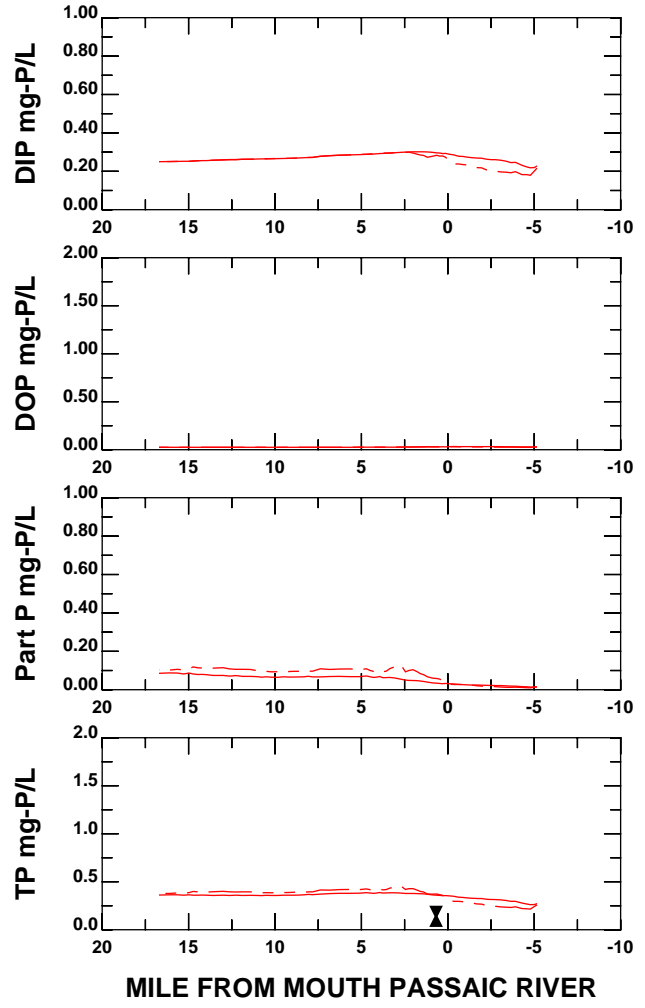
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

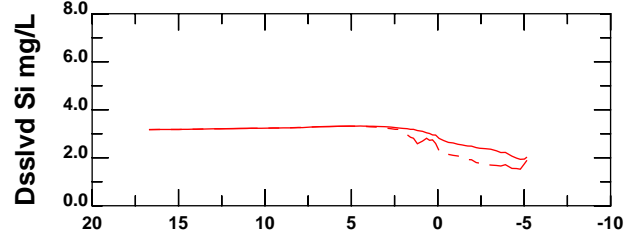
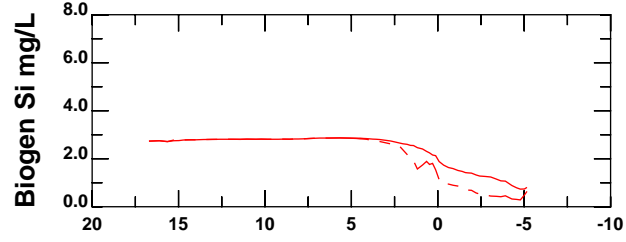
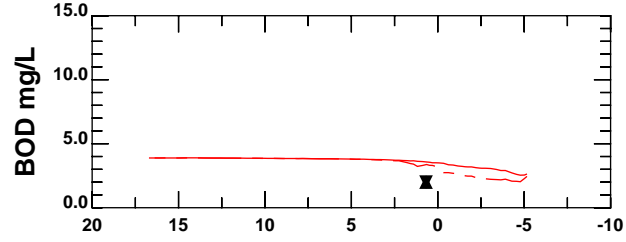
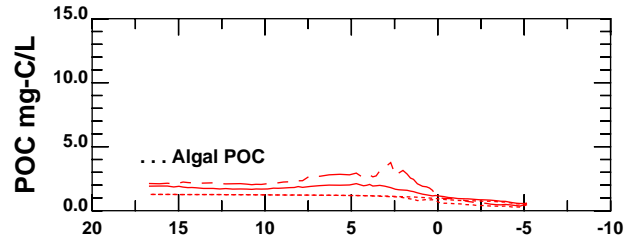
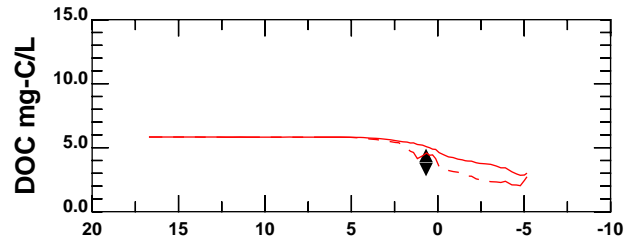
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

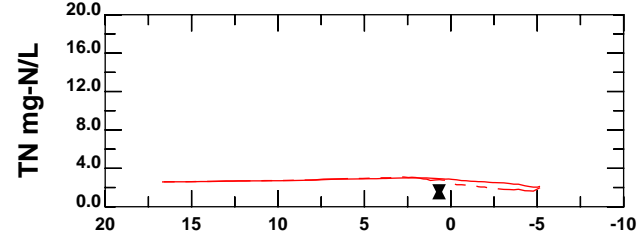
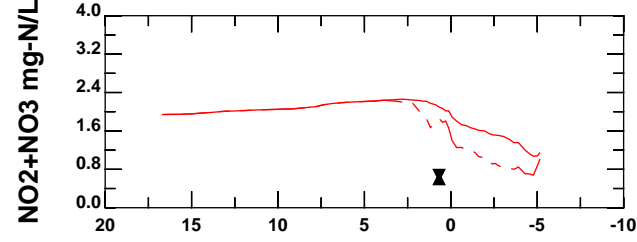
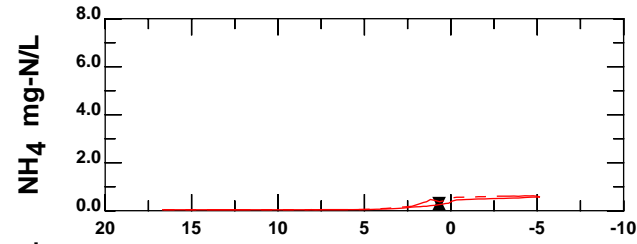
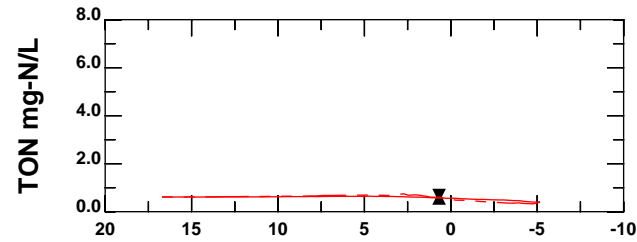


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Nov 01,2006

SURF BOTT MID

▲ ▼ ●  
T B M

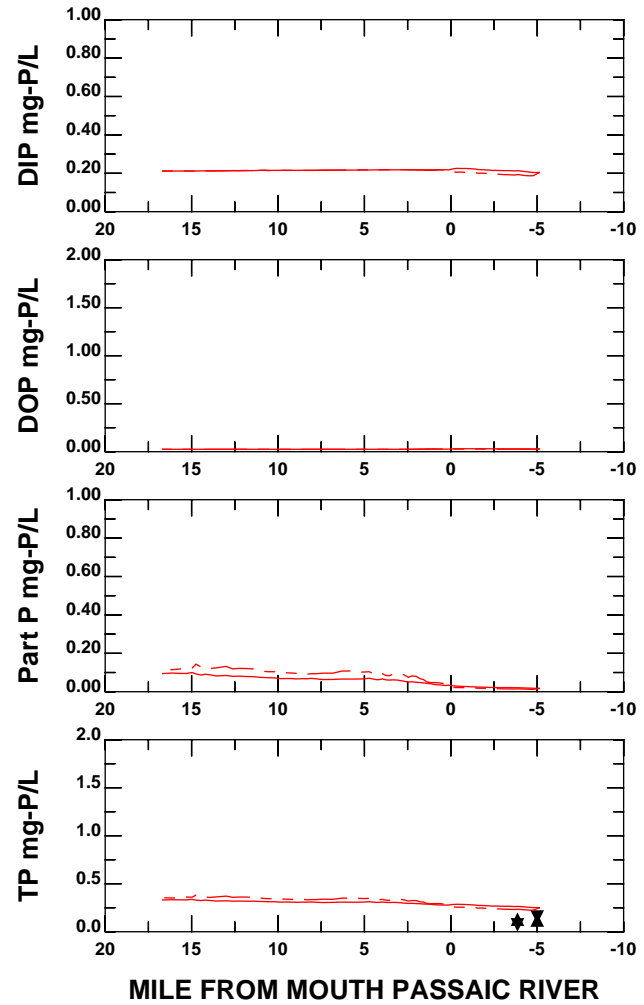
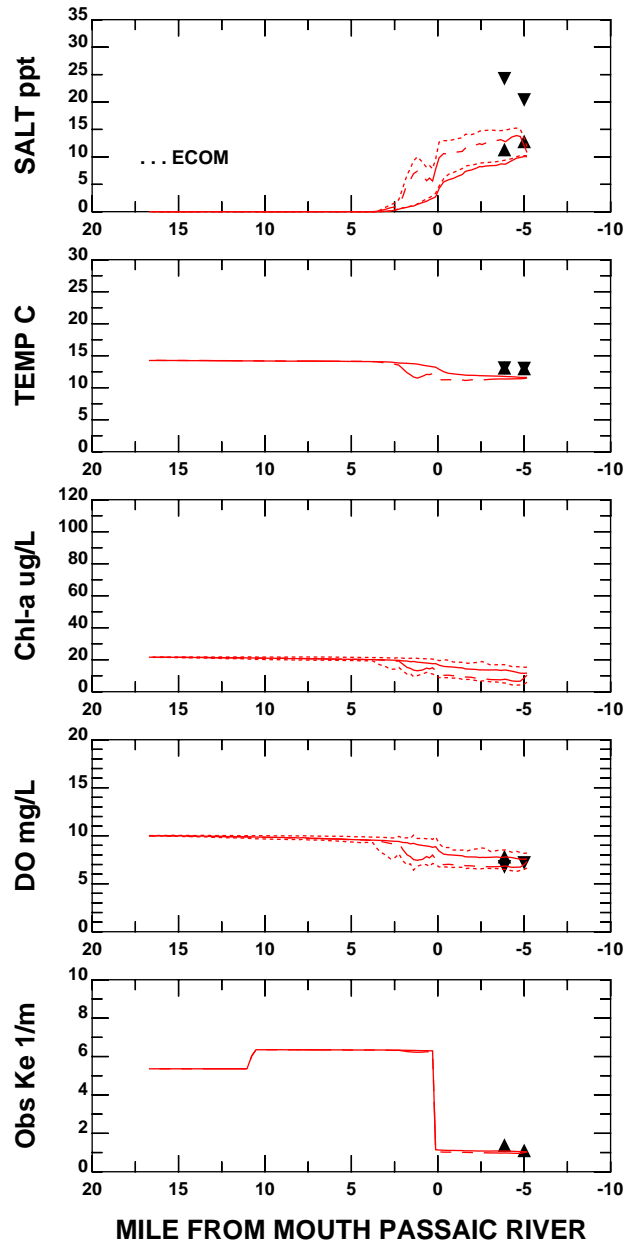
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



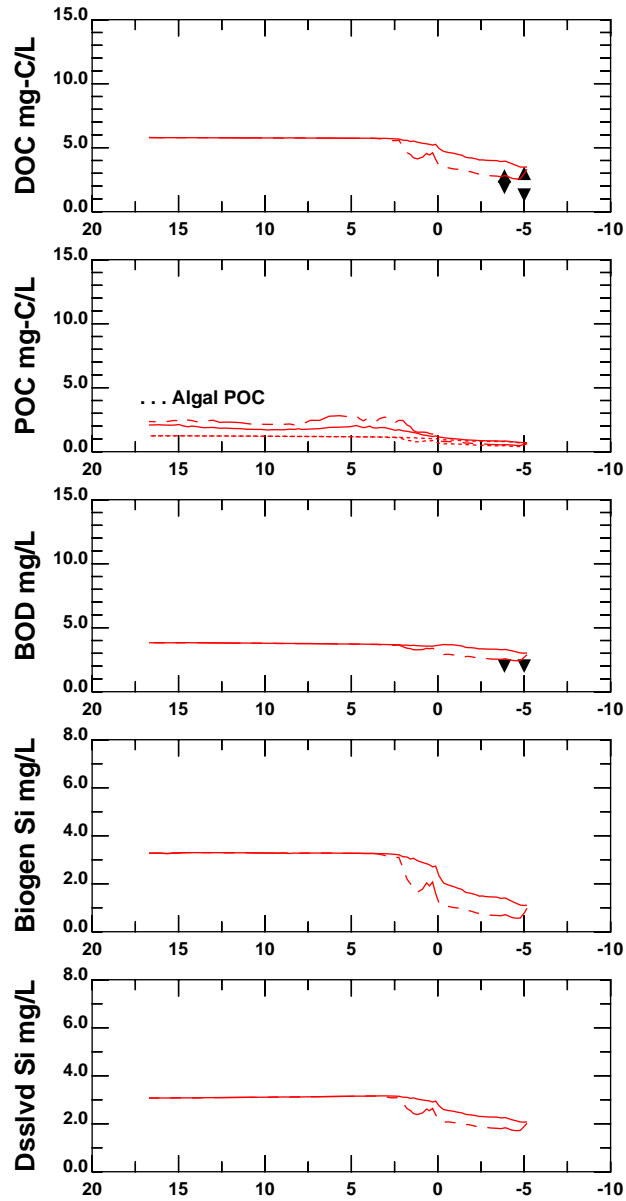
**DATA**  
NJHDG Nov 14,2006

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

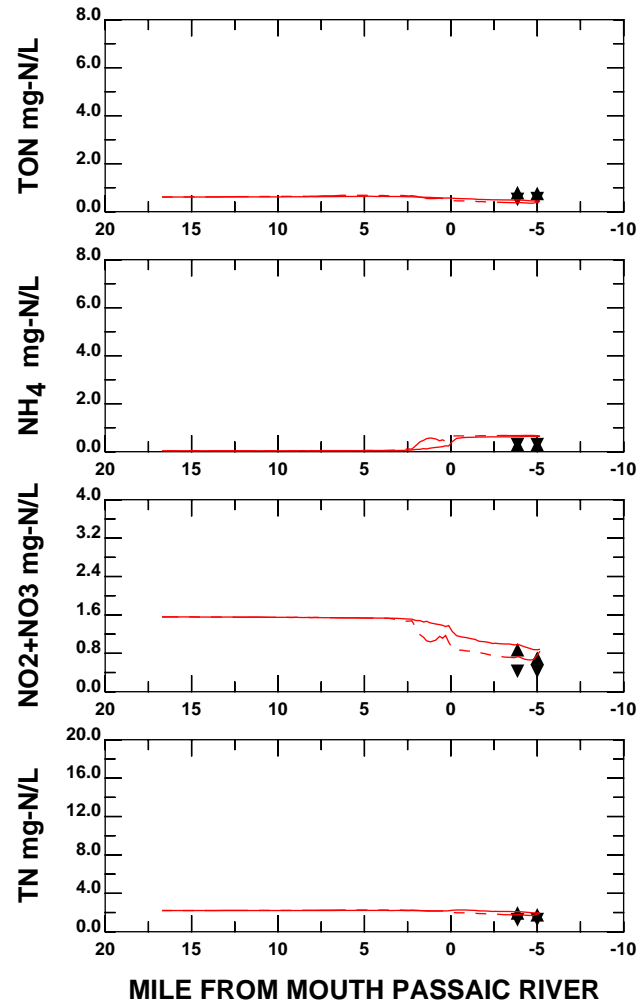
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Nov 14,2006

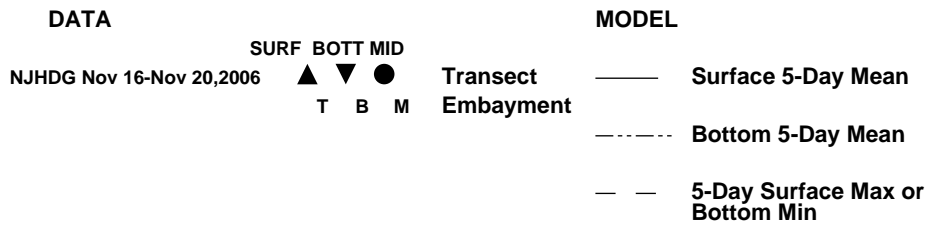
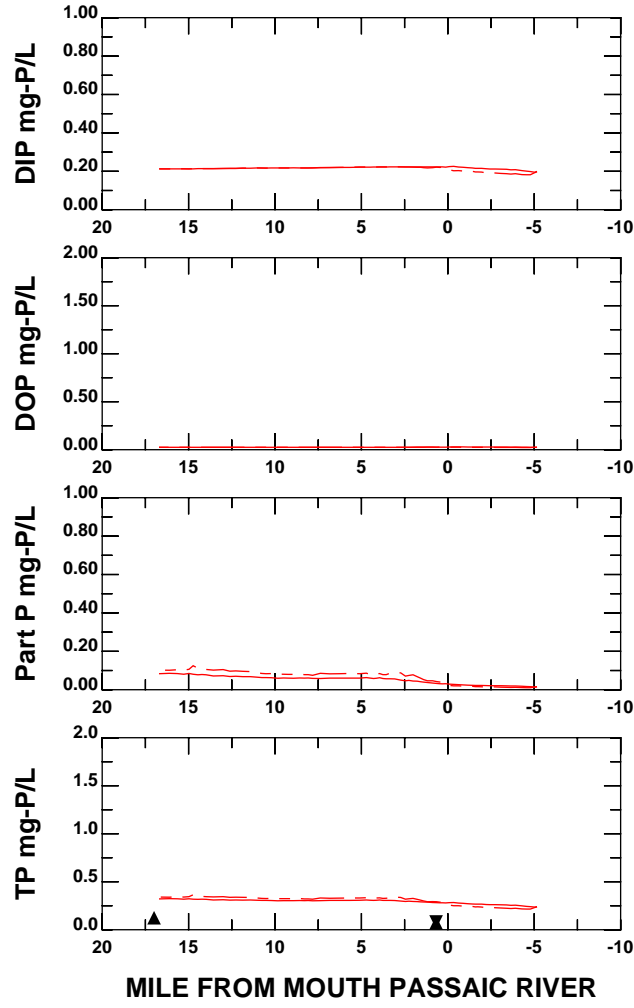
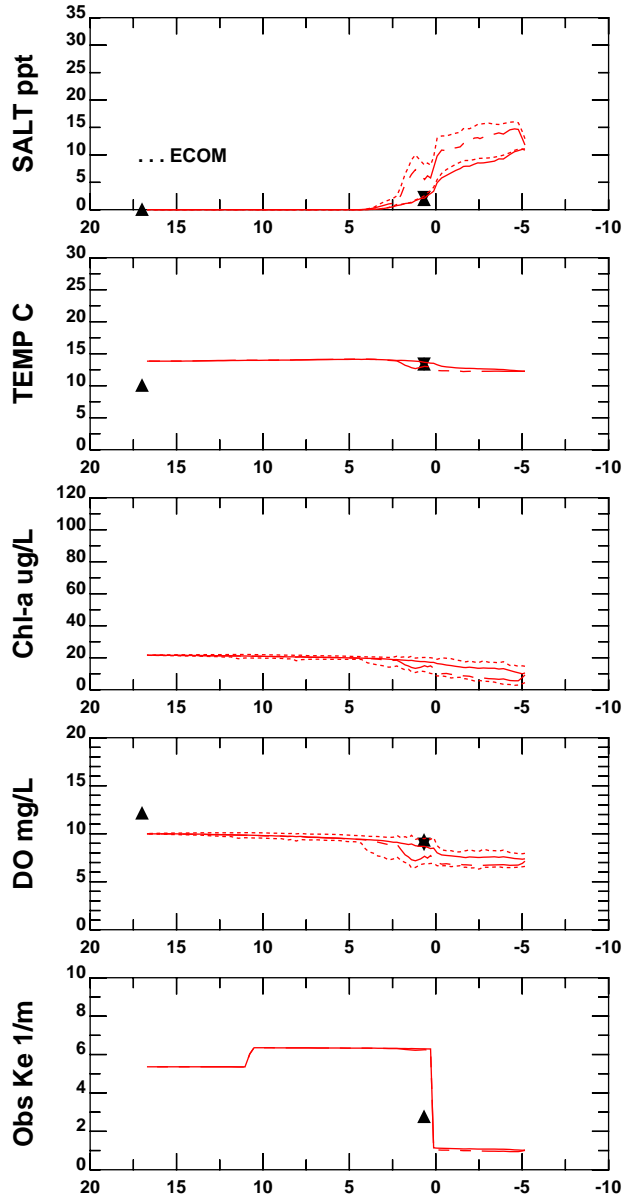
SURF BOTT MID

▲ ▼ ●  
T B M

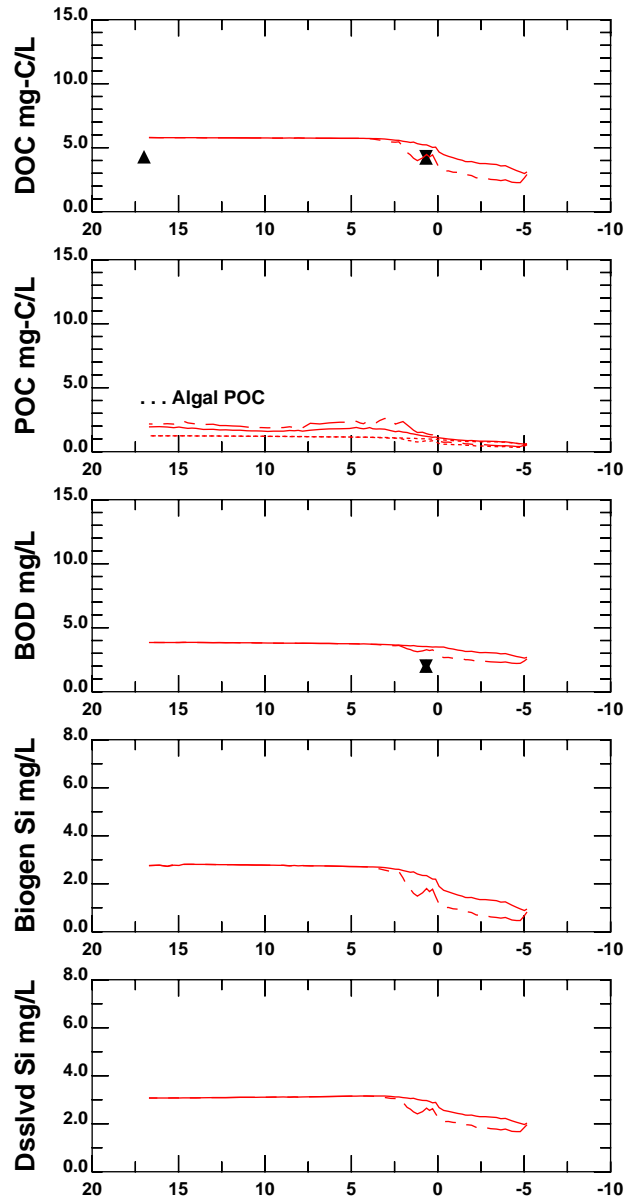
Transect  
Embayment

#### MODEL

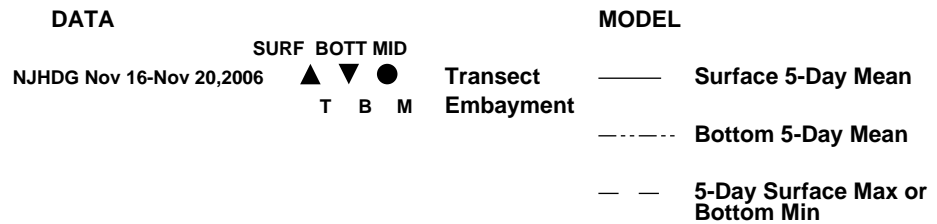
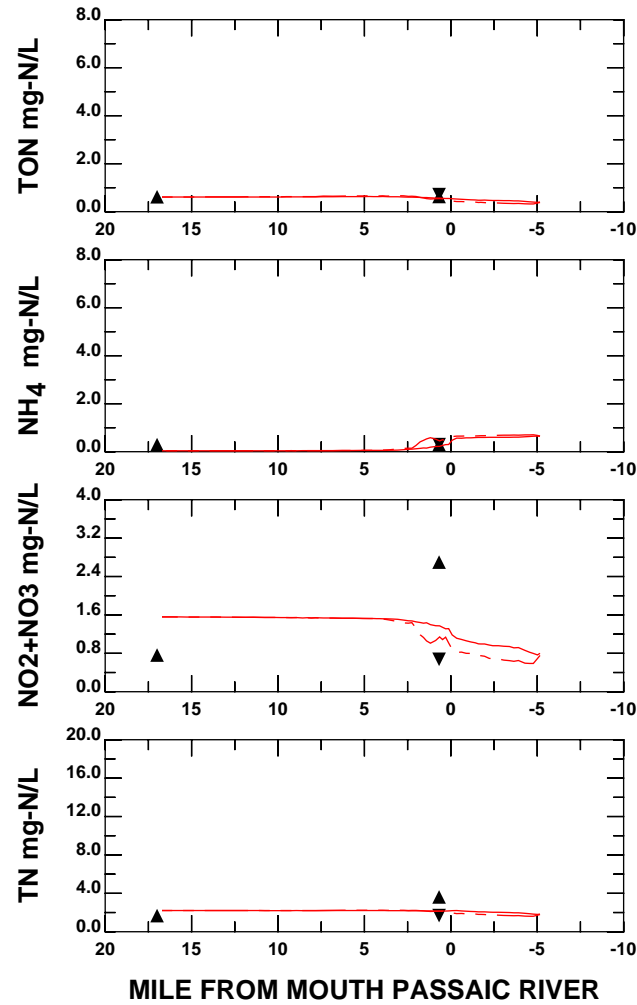
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

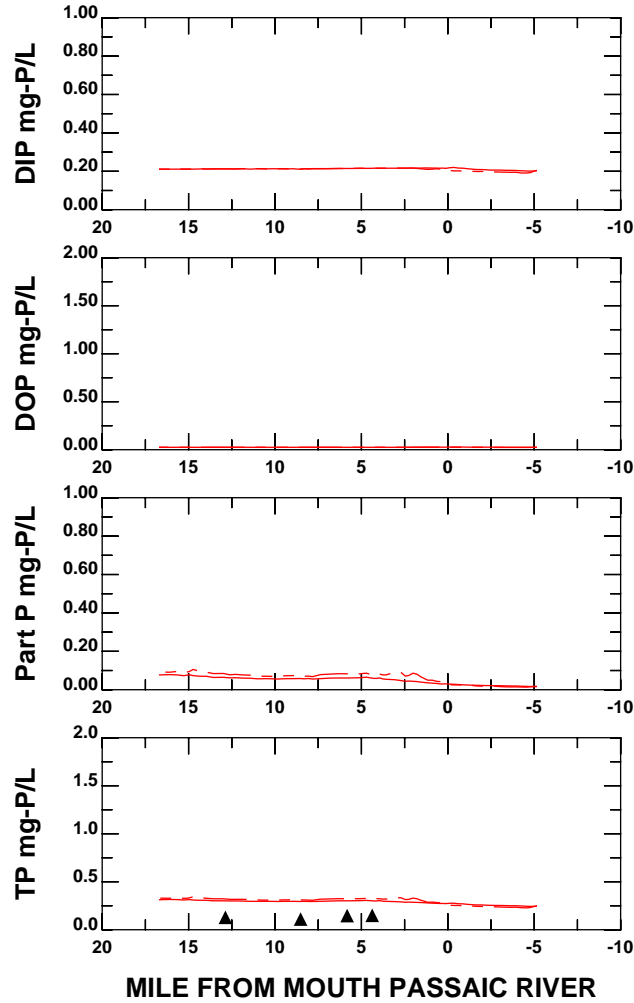
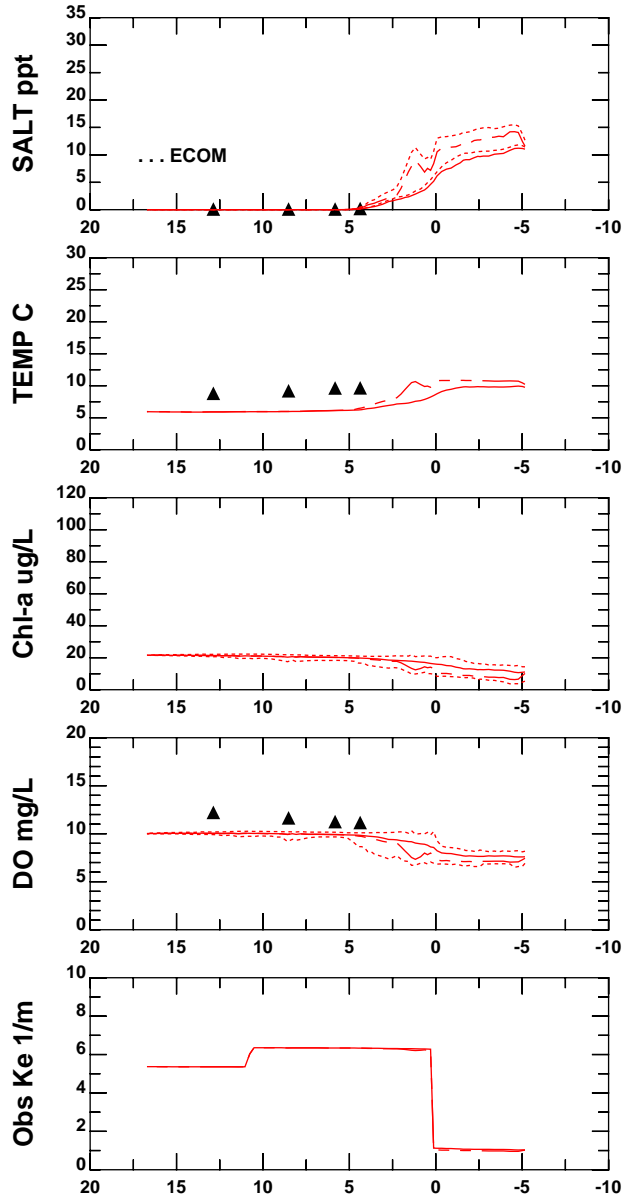


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607





DATA  
NJHGD Nov 21,2006

MODEL

SURF BOTT MID

▲ ▼ ● Transect

T B M Embayment

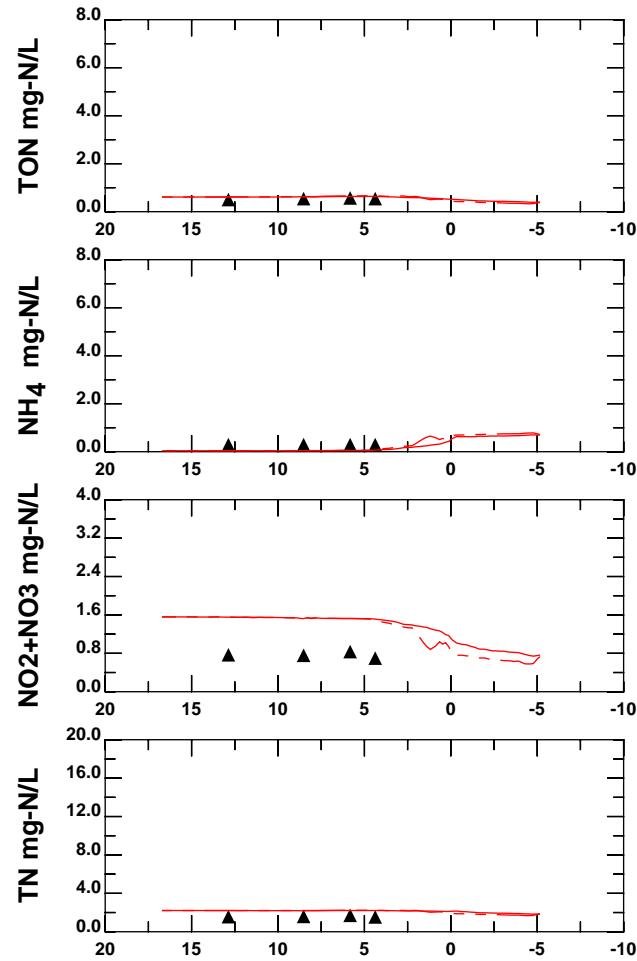
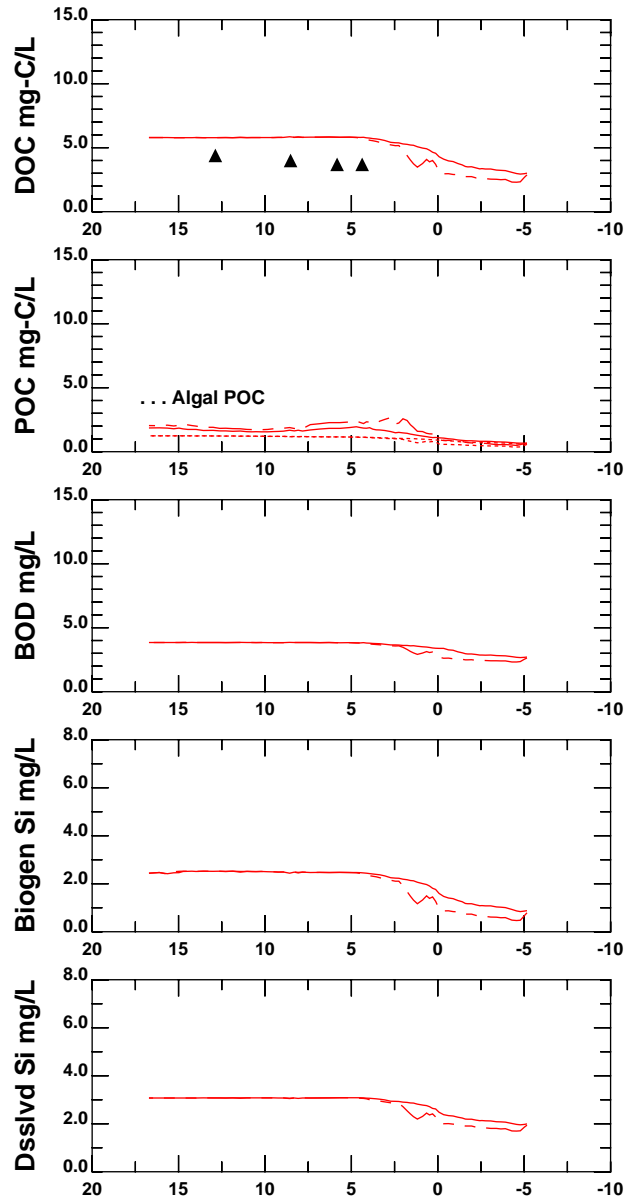
— Surface 5-Day Mean

- - - Bottom 5-Day Mean

- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607





**DATA**

NJHDG Nov 21,2006

SURF BOTT MID

▲ ▼ ●  
T B M

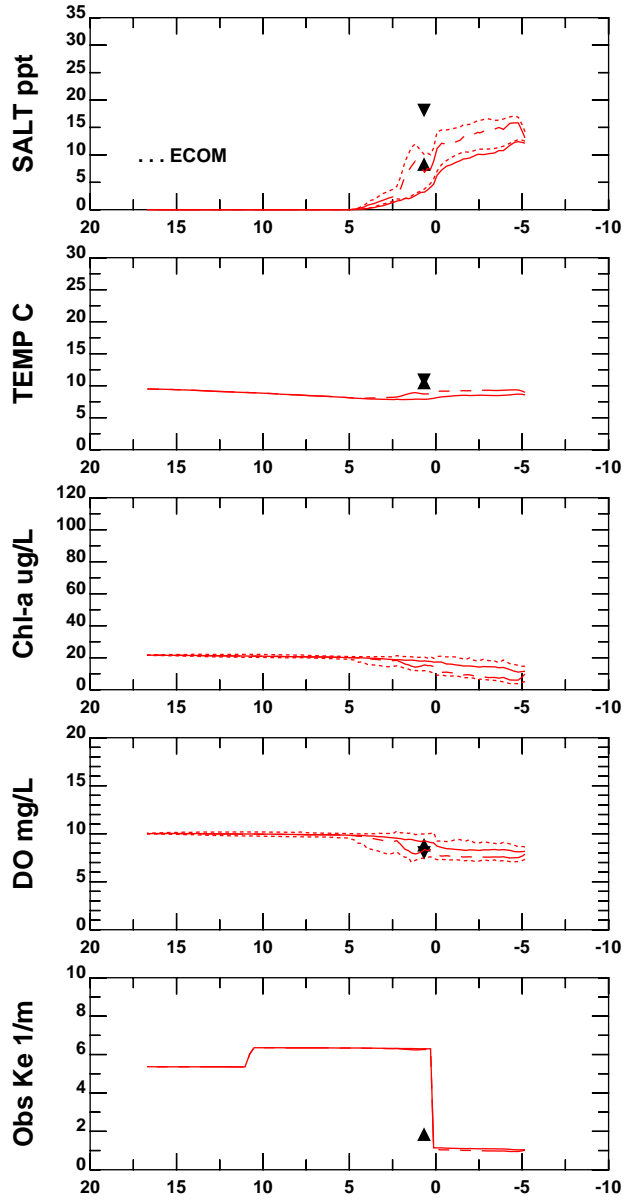
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

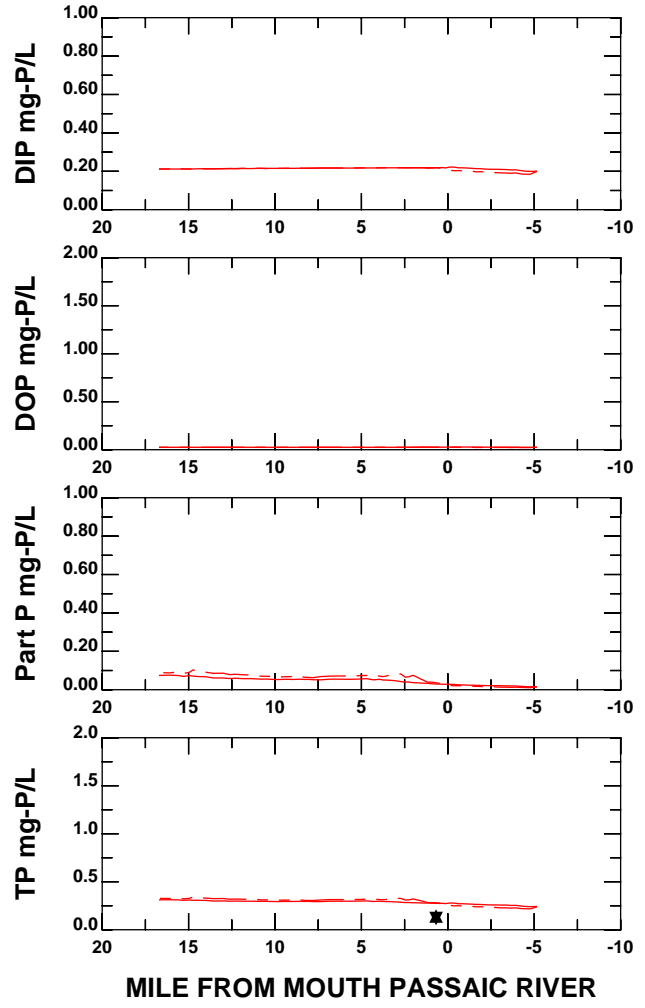
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

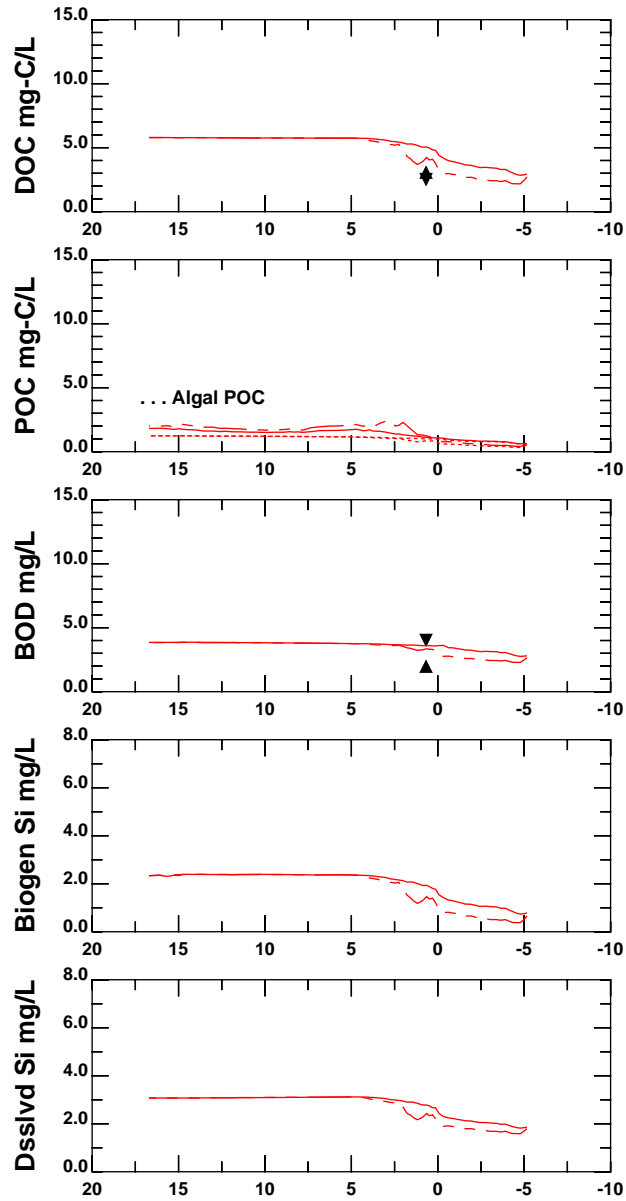


DATA  
 NJHGD Nov 29,2006

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

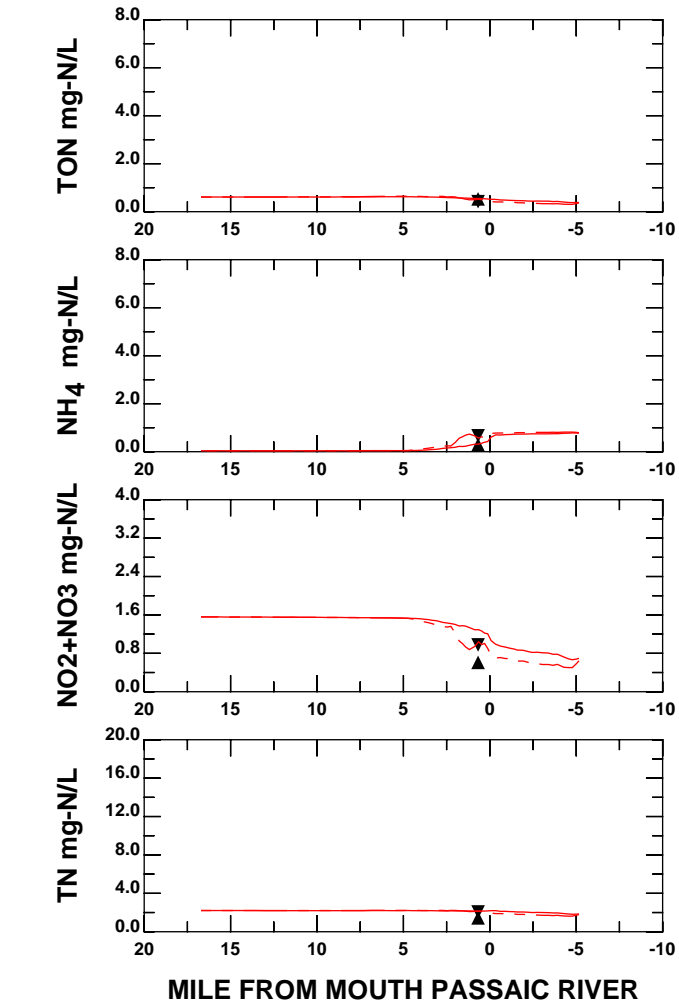
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

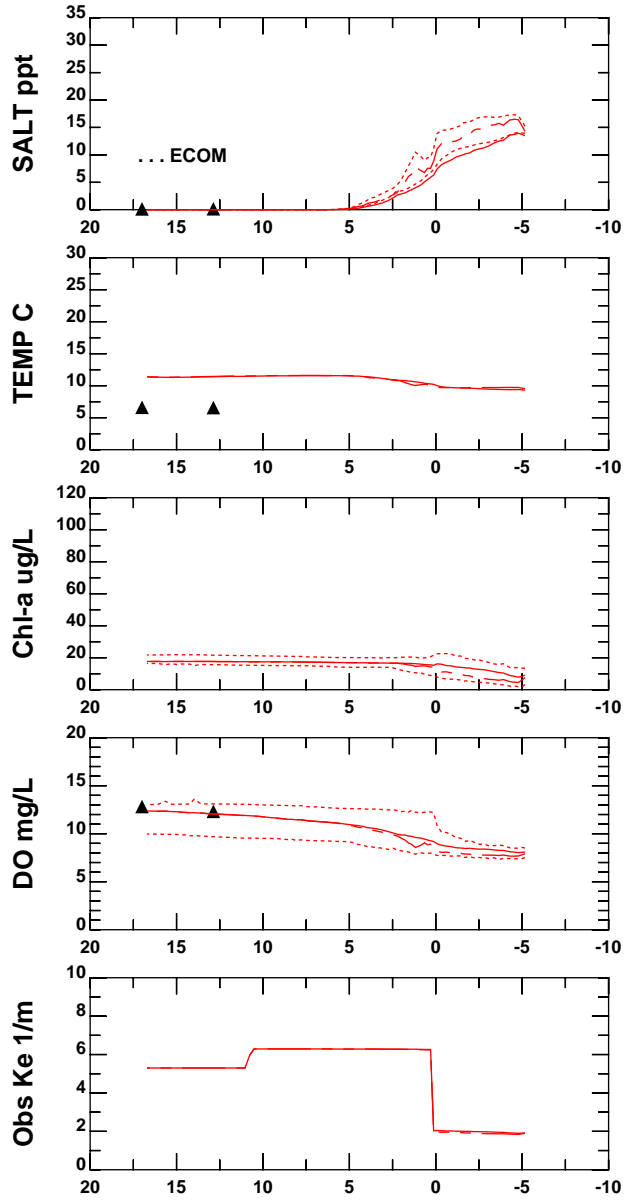


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Nov 29,2006

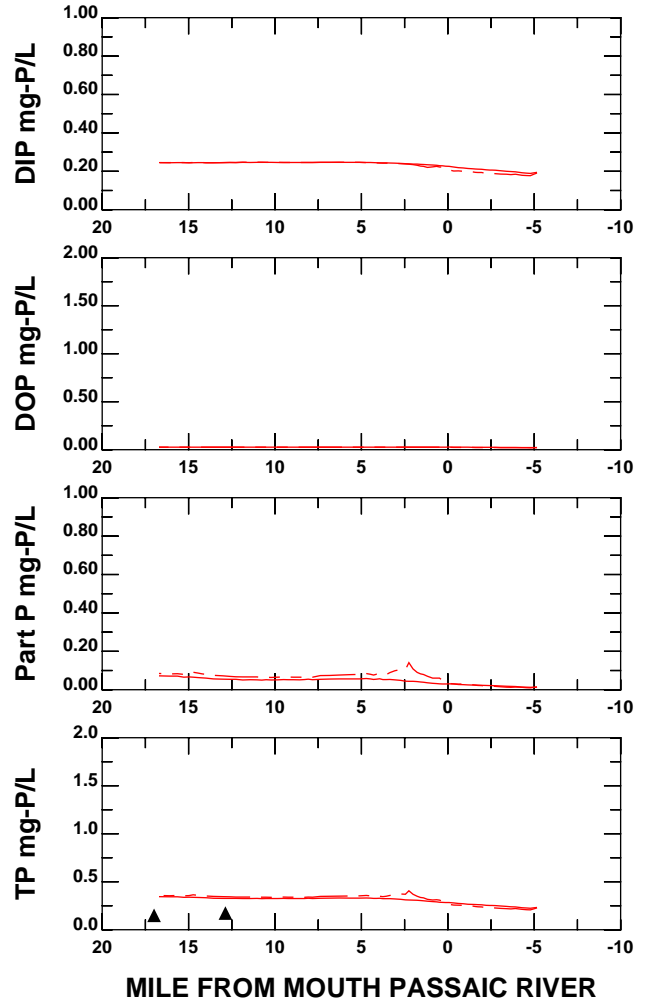
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

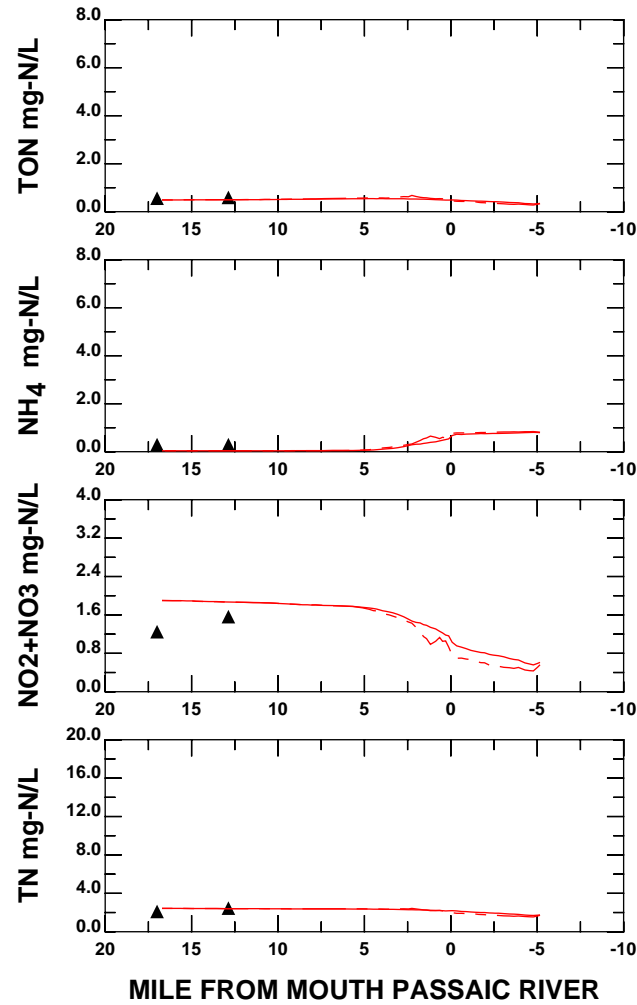
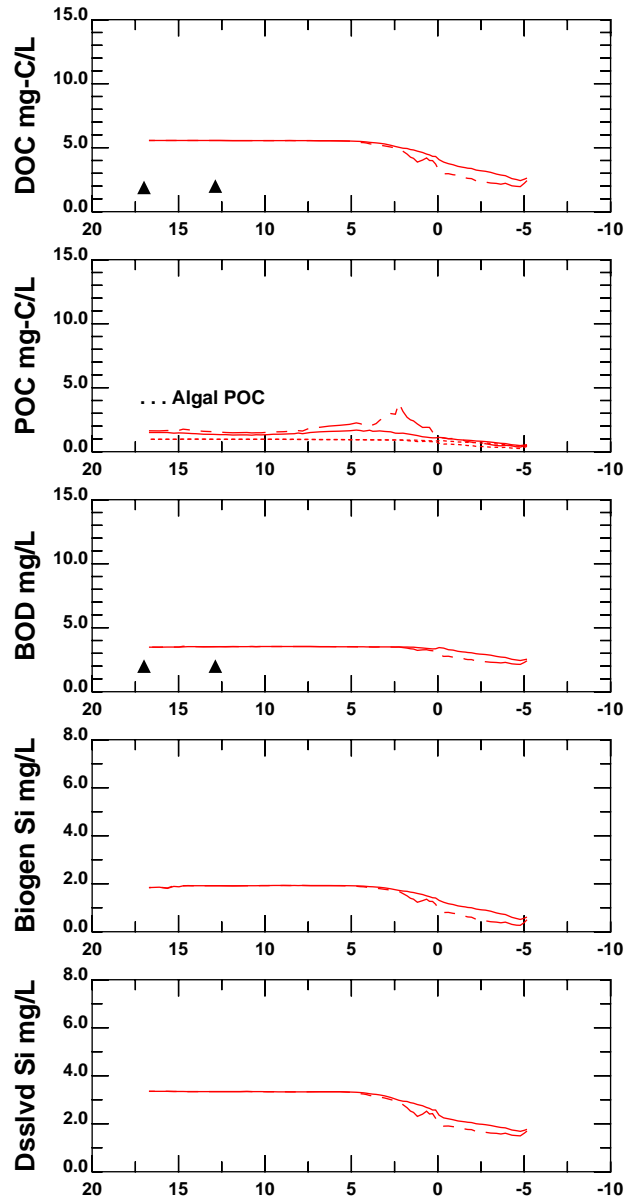


MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Dec 05,2006

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

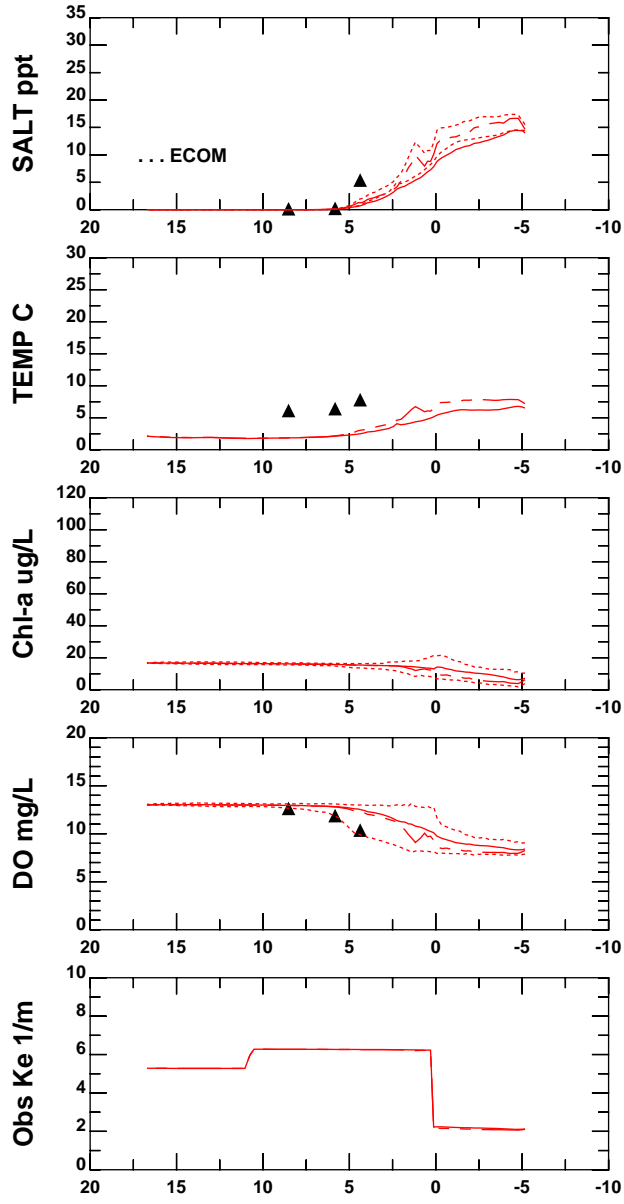


DATA  
NJHDG Dec 05,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

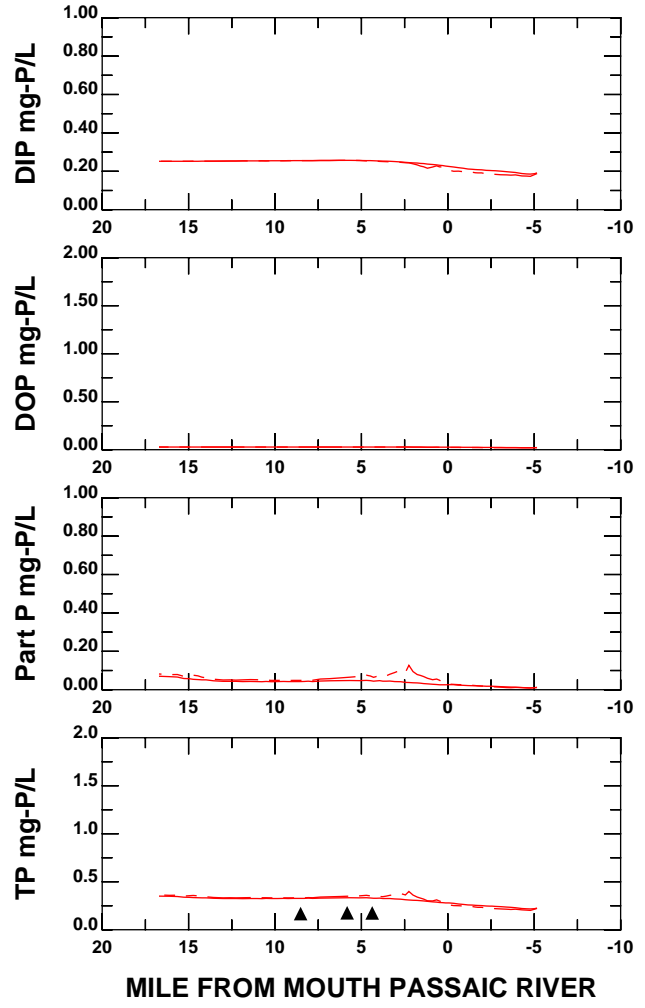
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

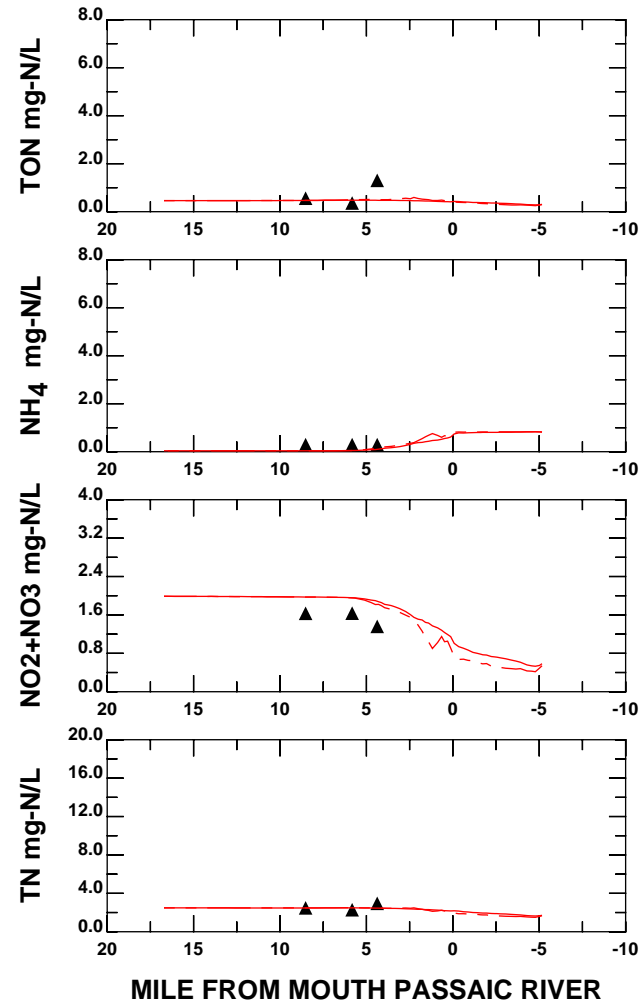
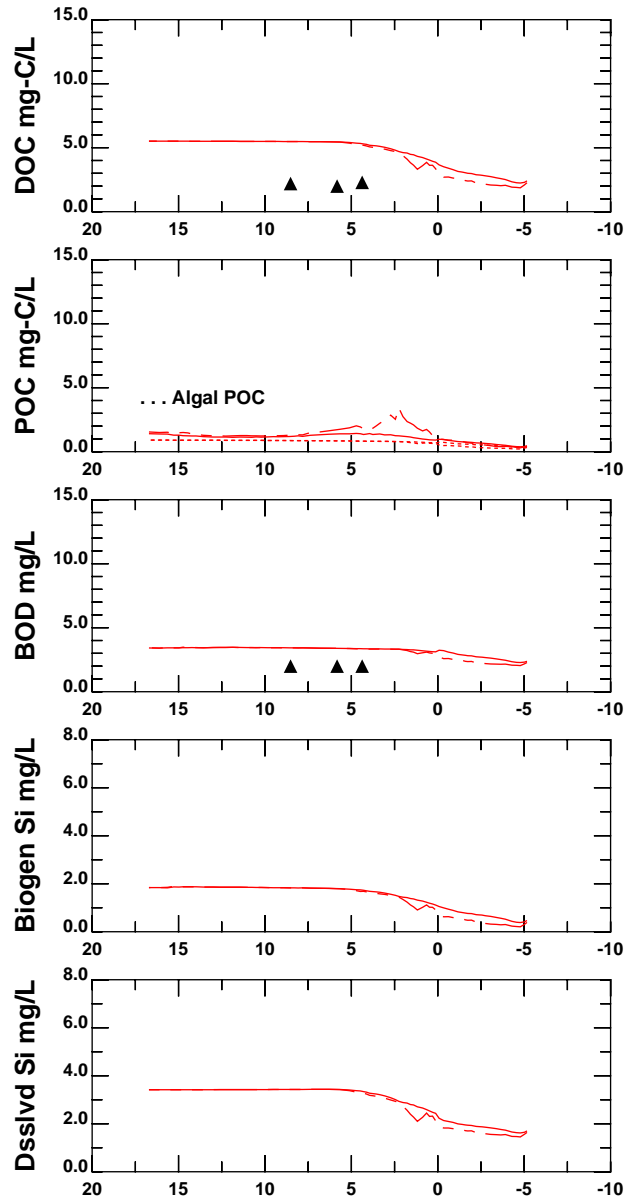


MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Dec 06,2006

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

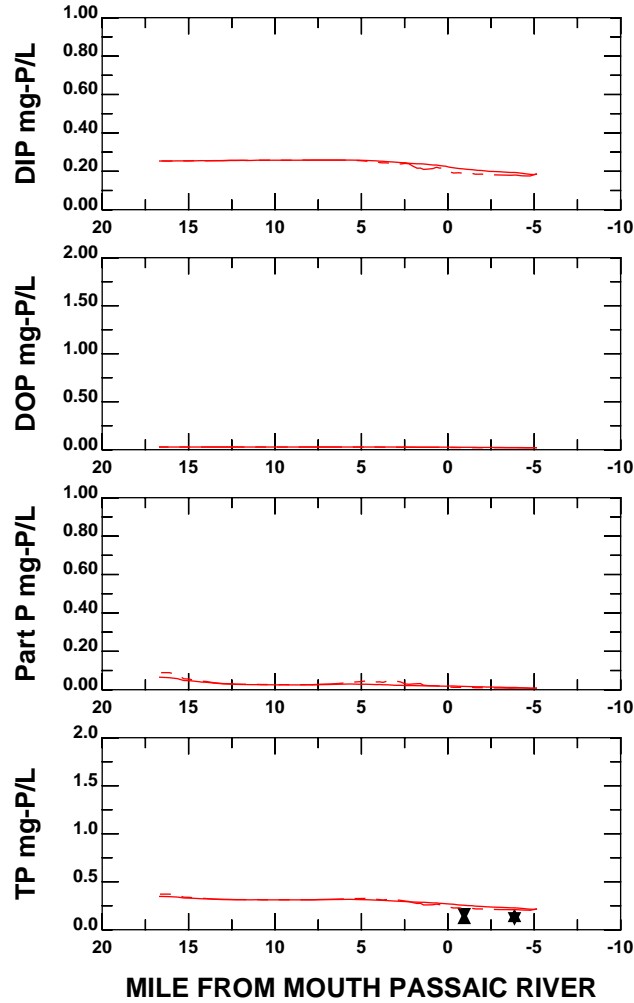
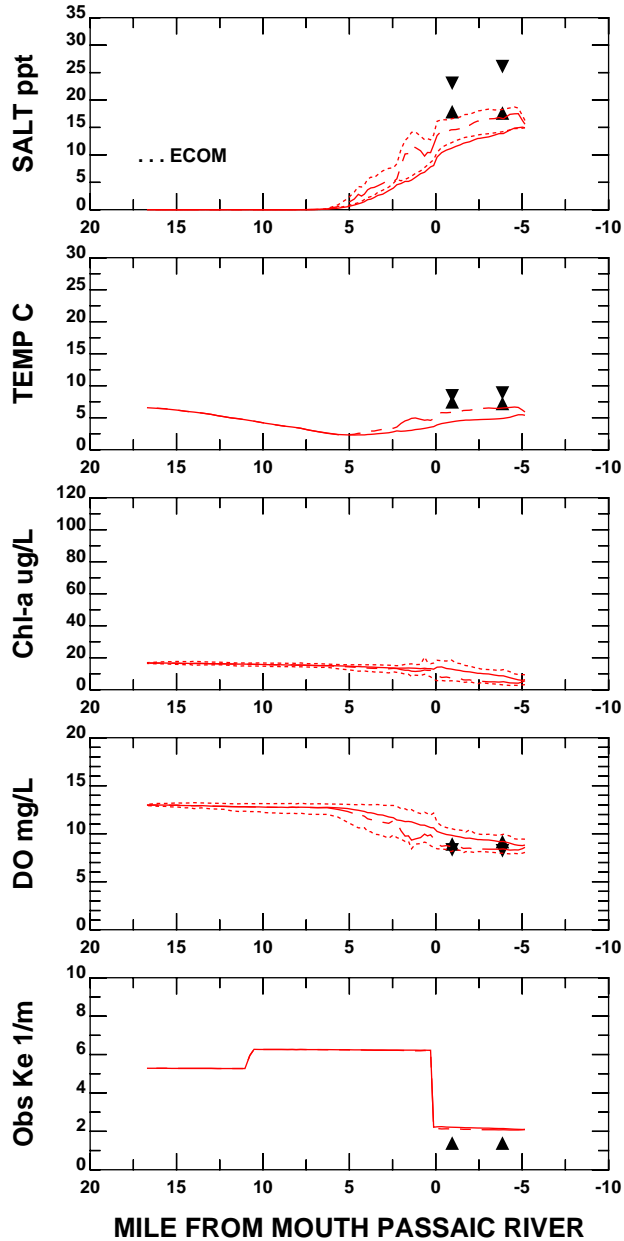


DATA  
NJHGD Dec 06,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



**DATA**  
NJHGD Dec 11,2006

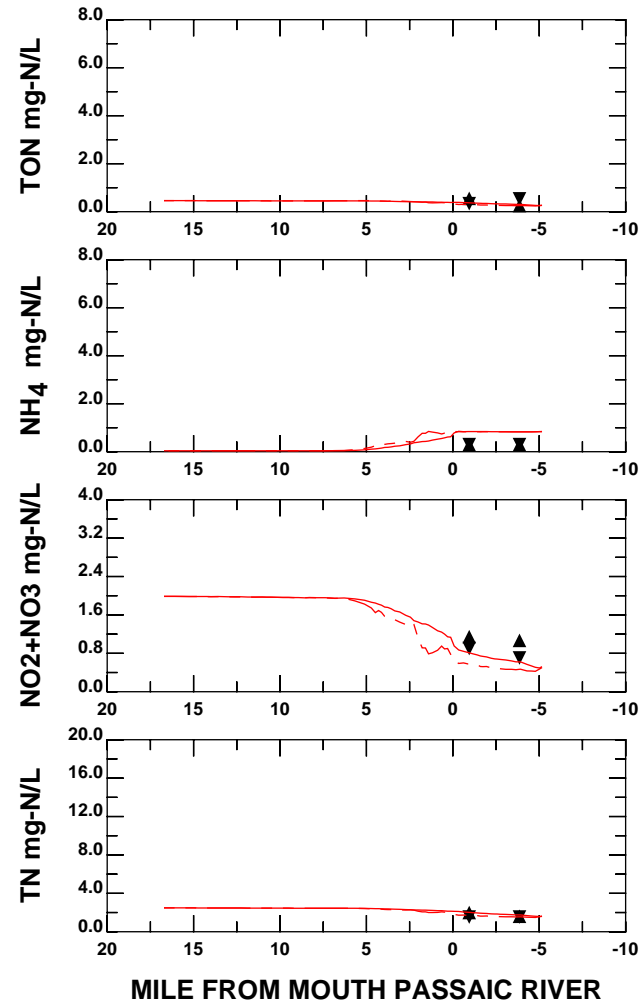
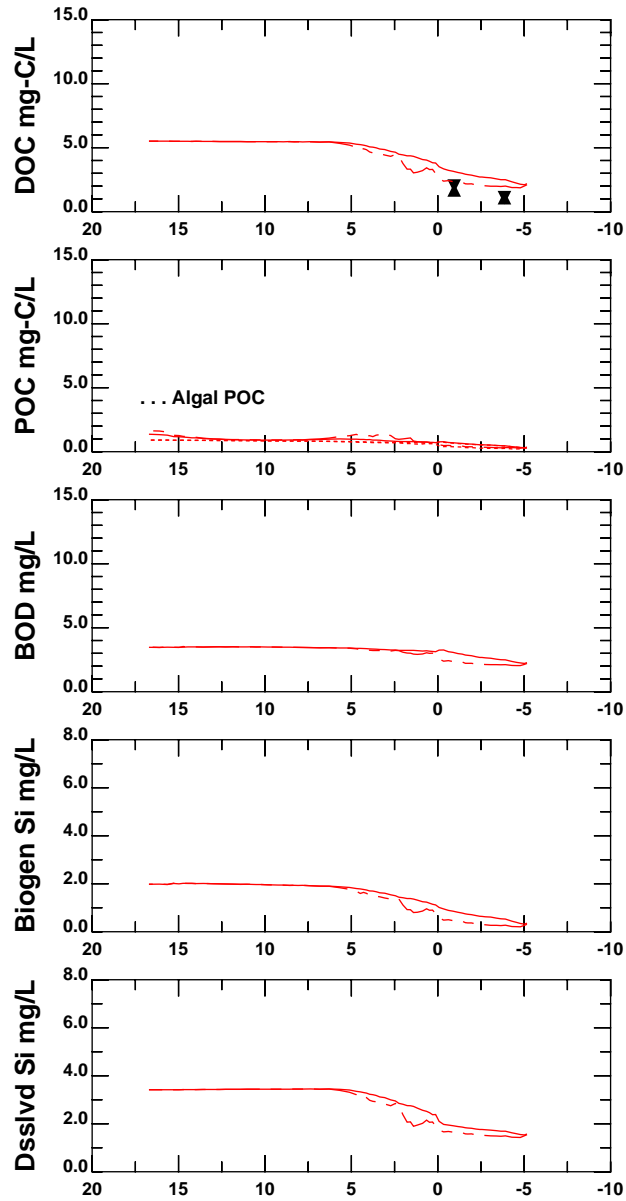
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



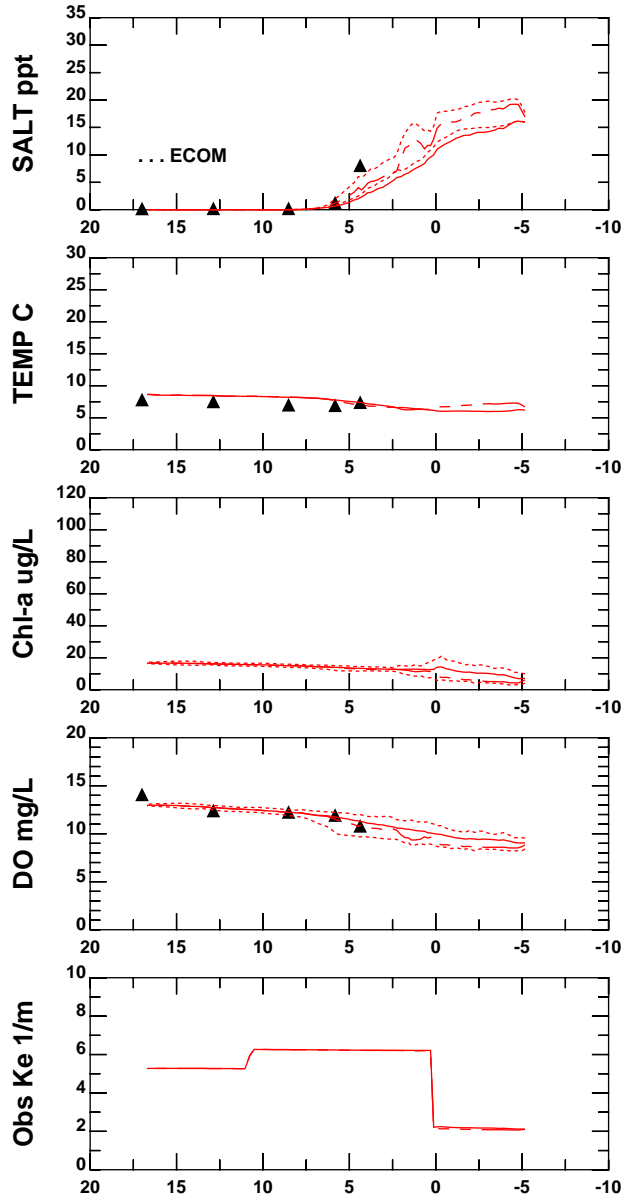


DATA  
NJHGD Dec 11,2006

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

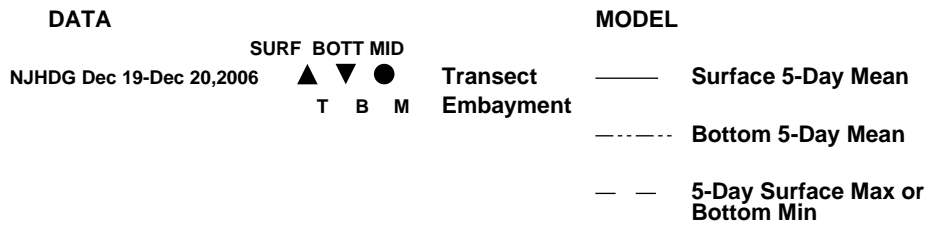
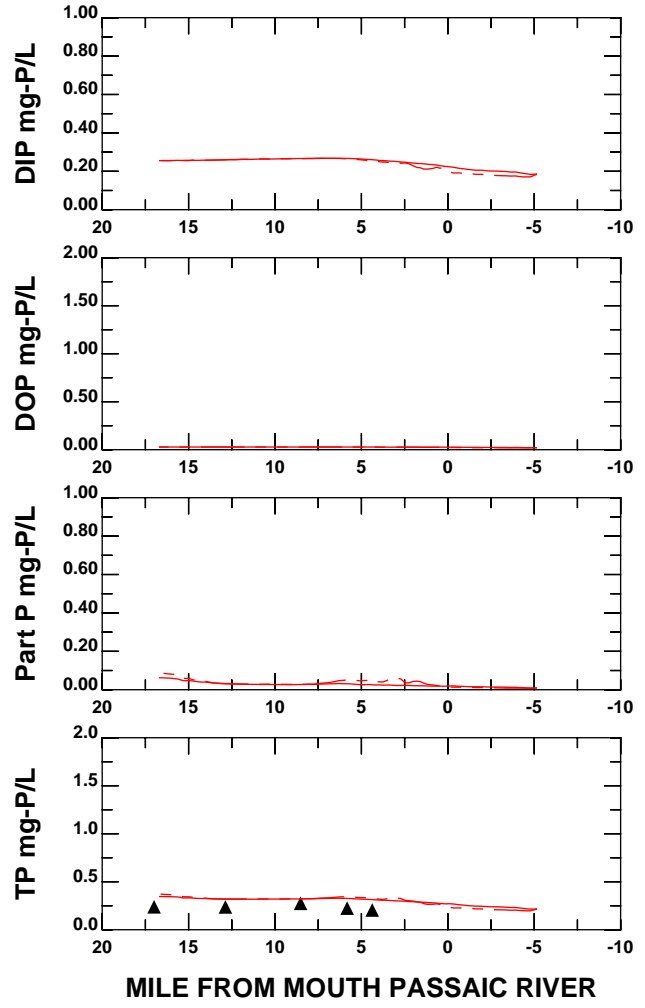
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607

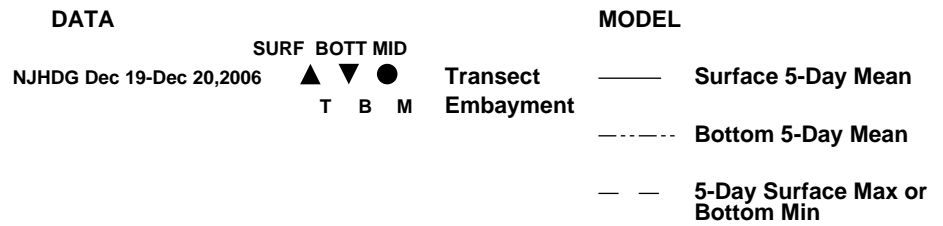
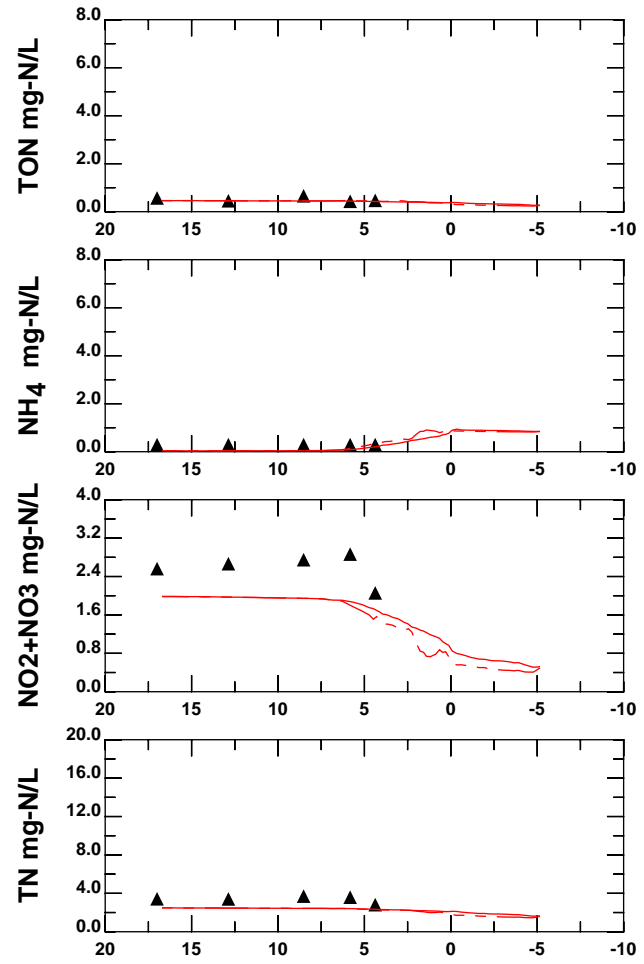
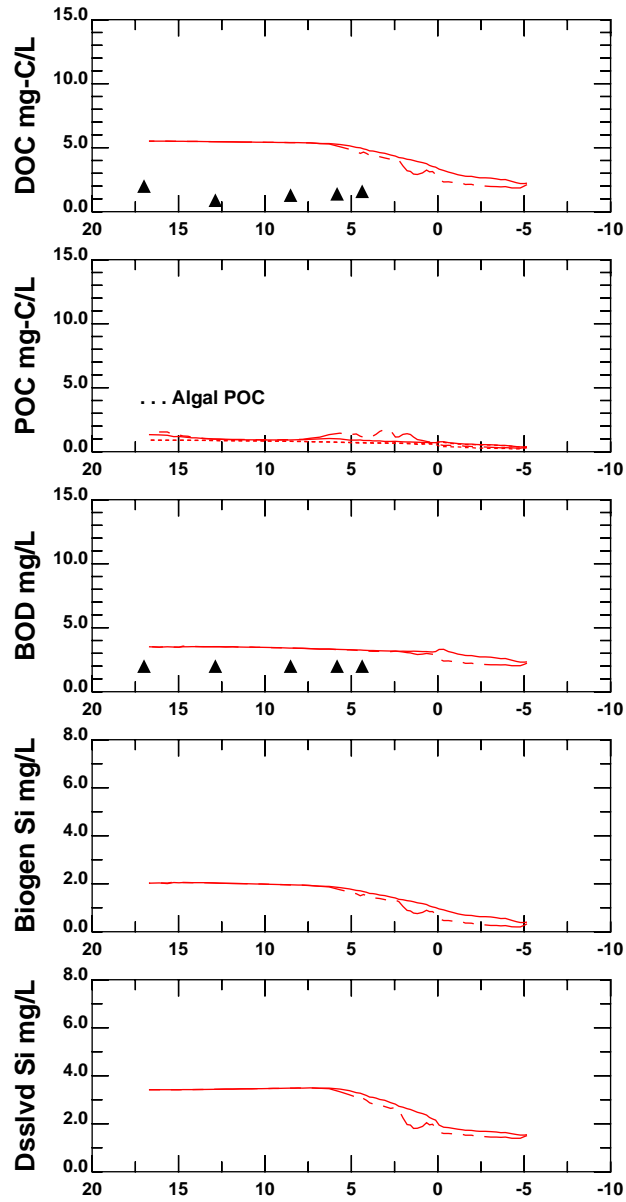


MILE FROM MOUTH PASSAIC RIVER

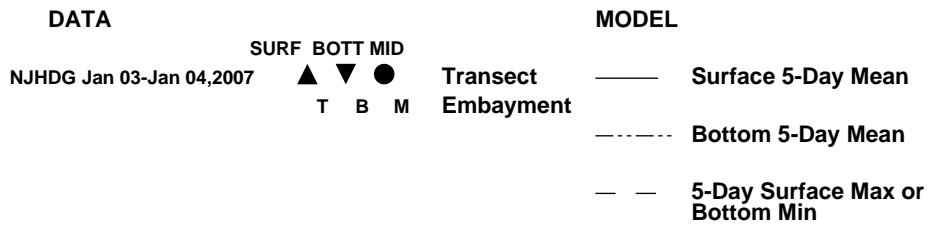
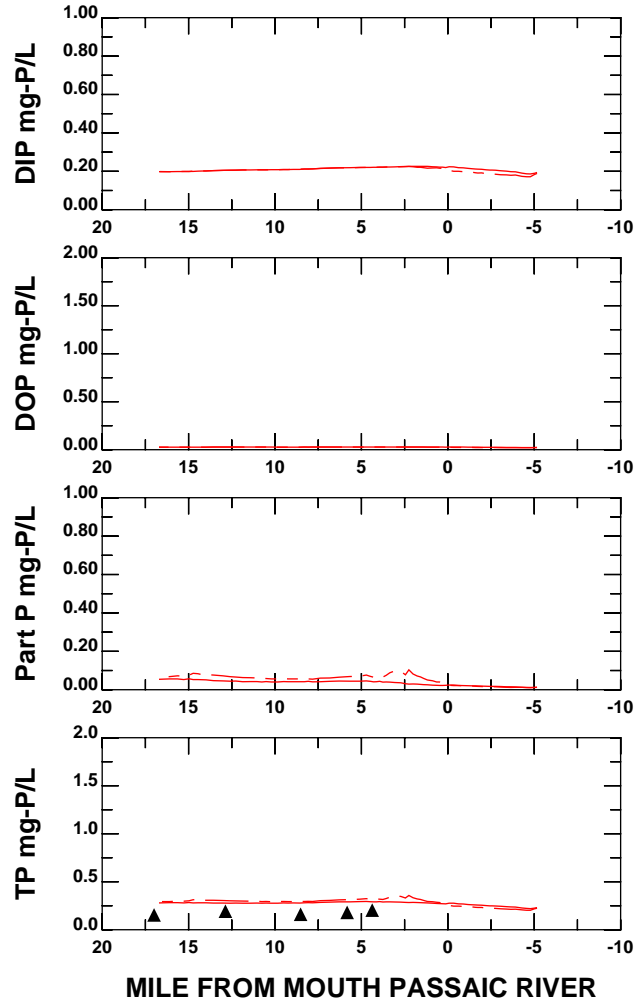
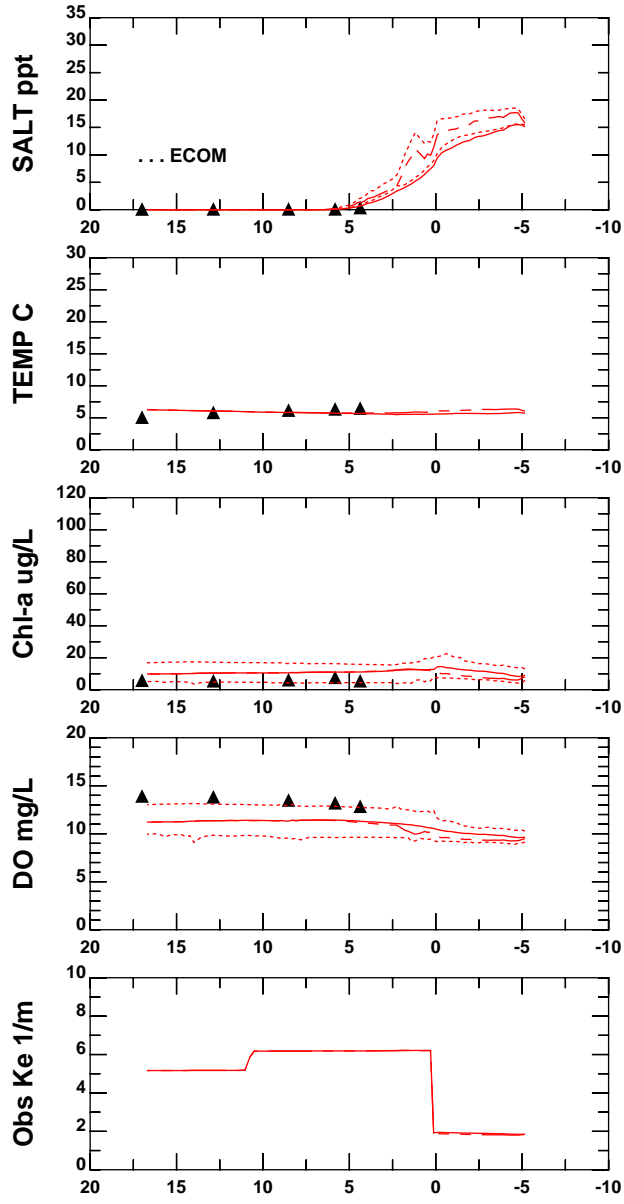
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

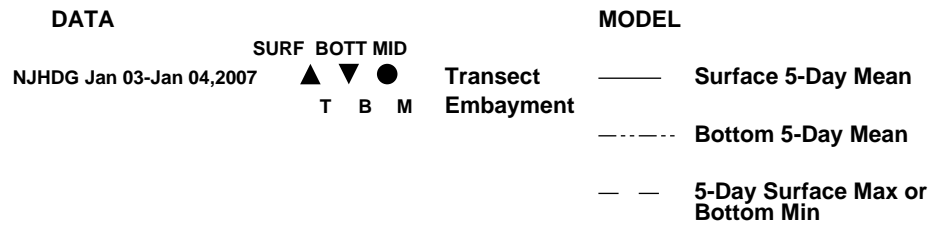
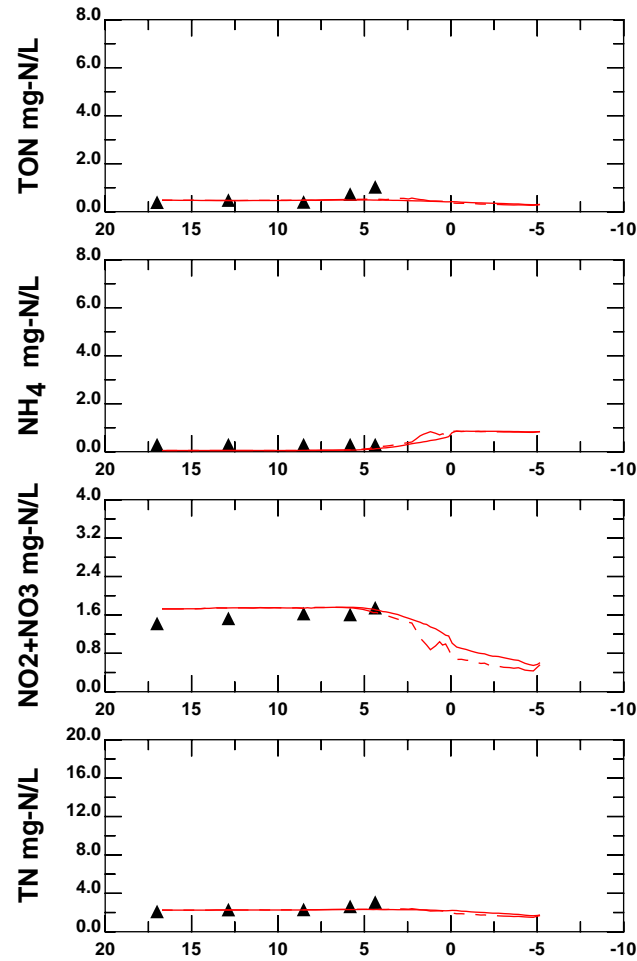
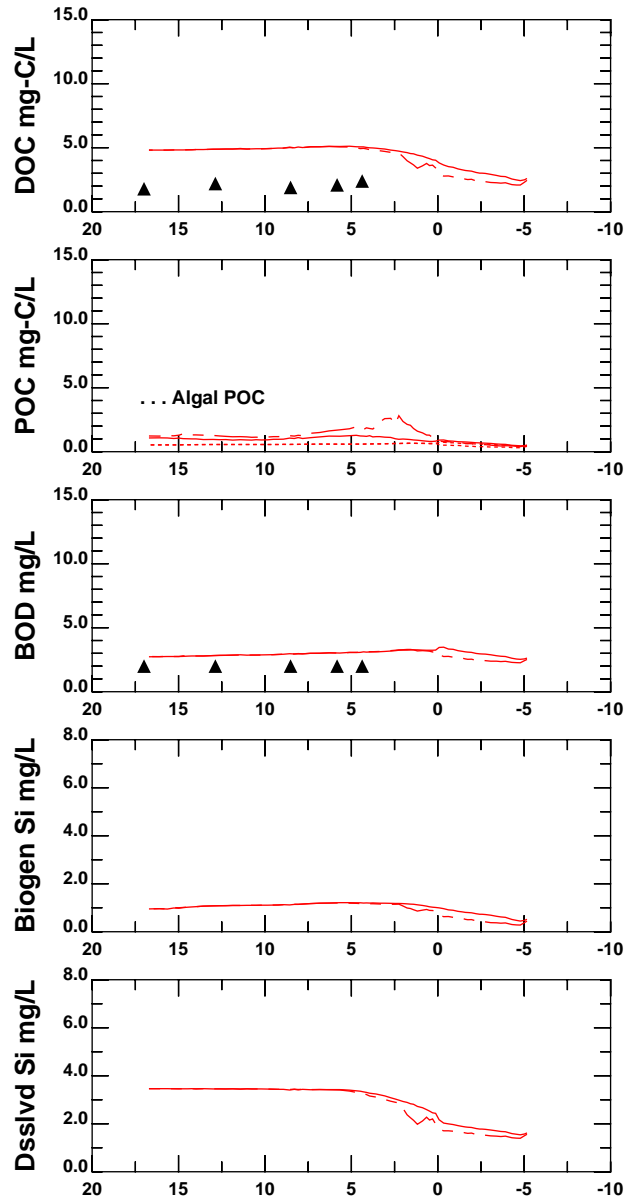




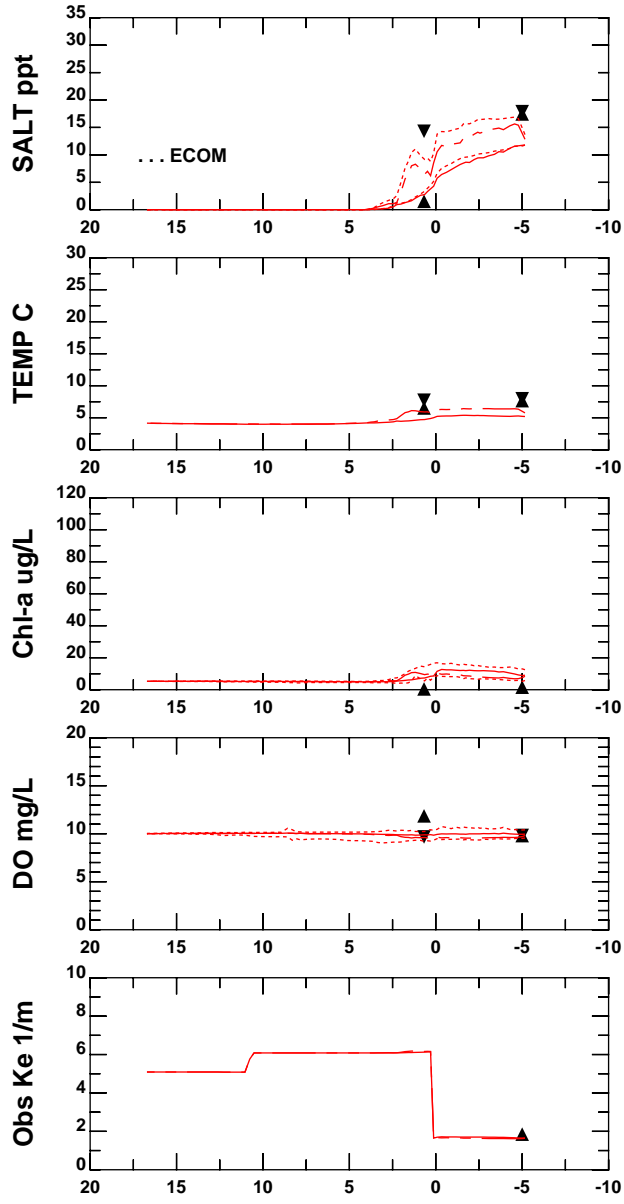
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



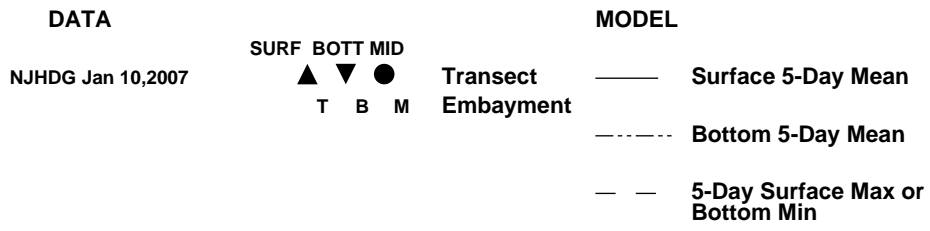
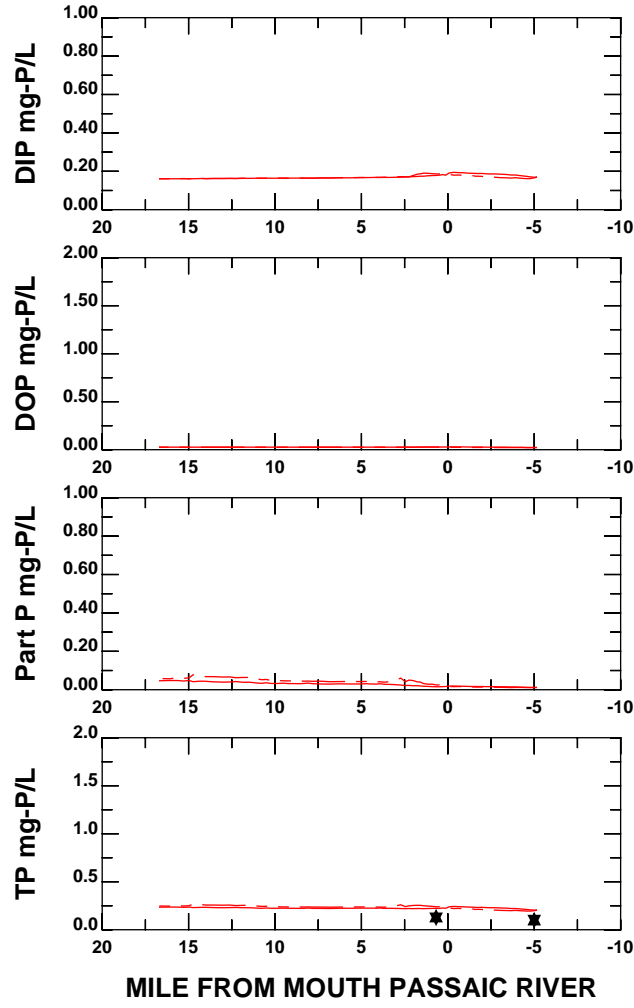
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

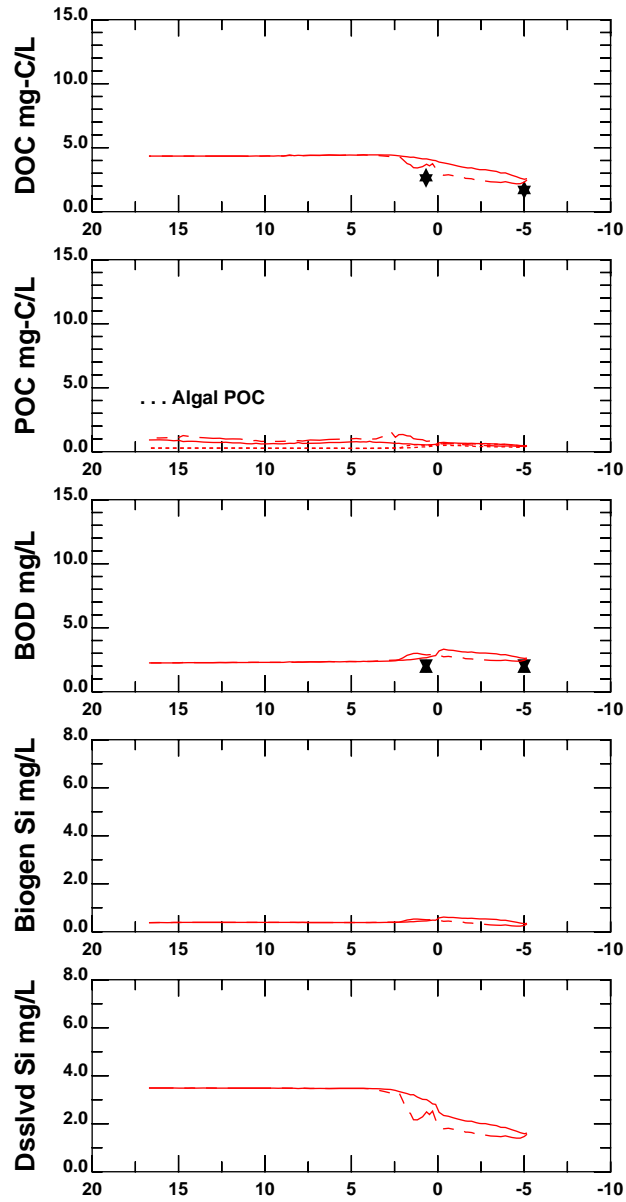


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

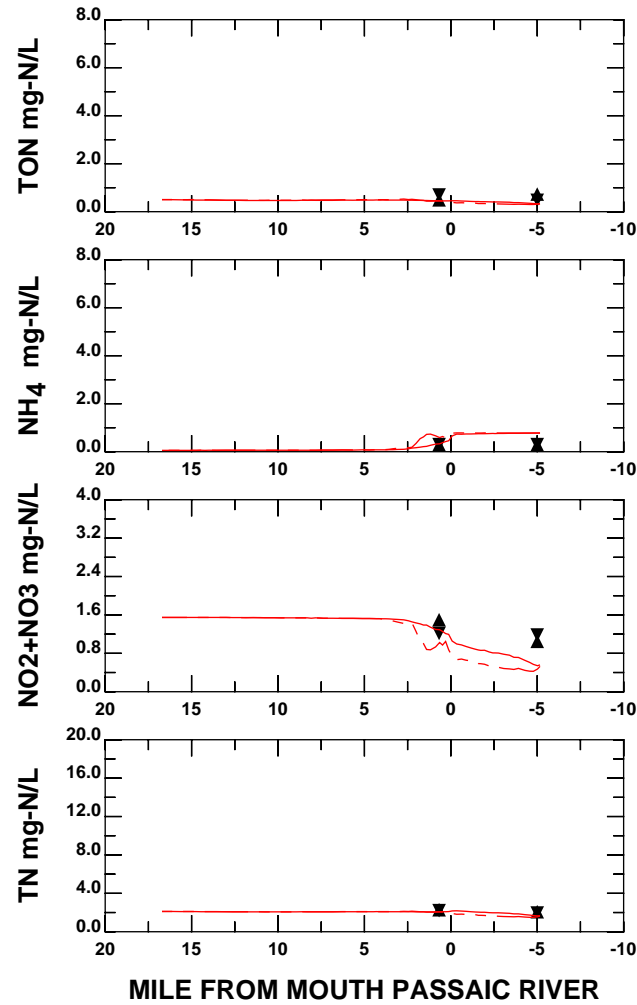




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jan 10,2007

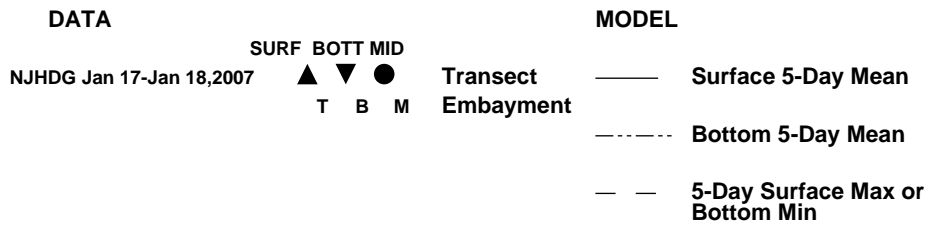
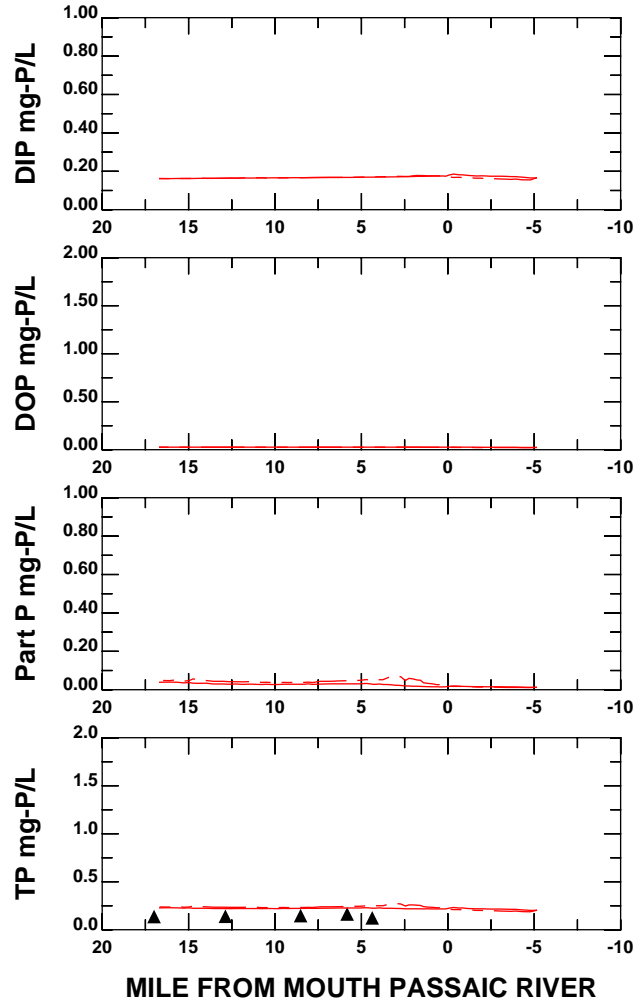
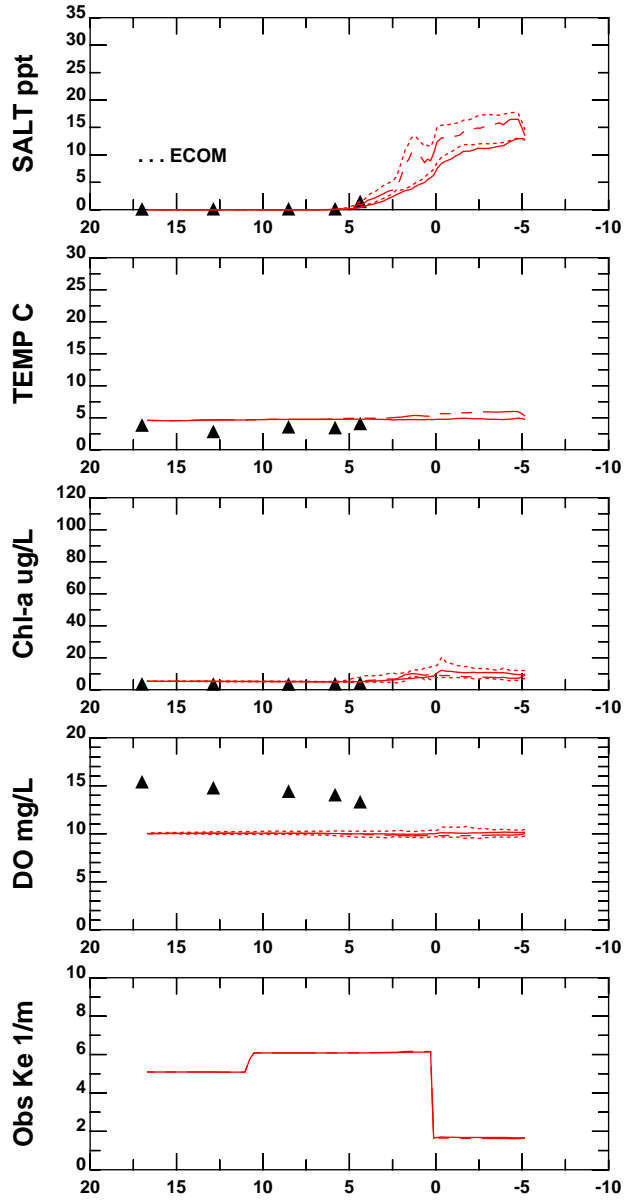
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

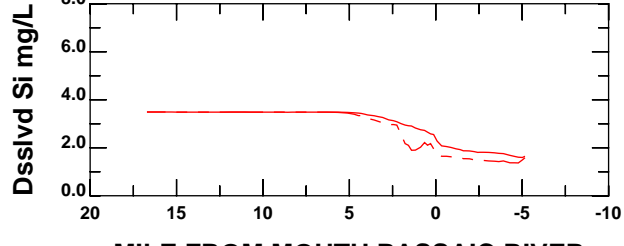
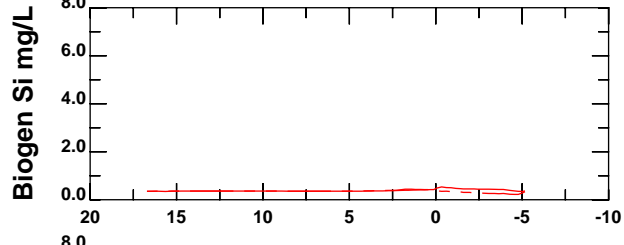
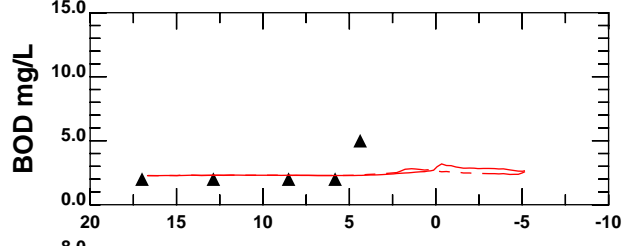
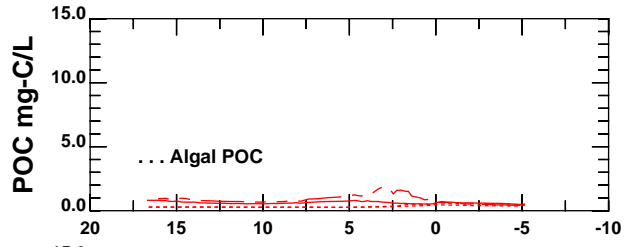
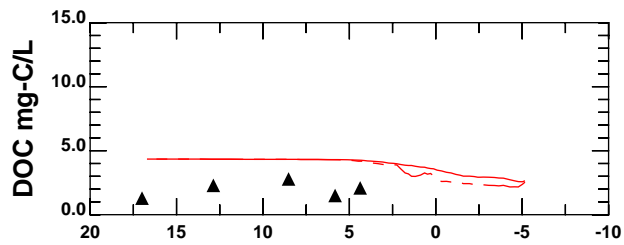
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

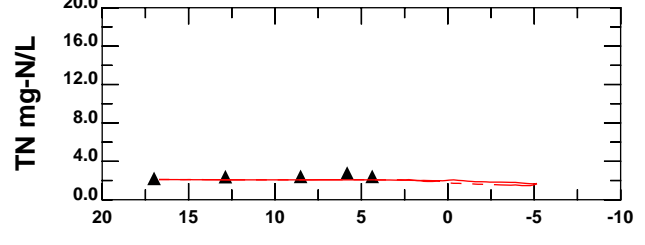
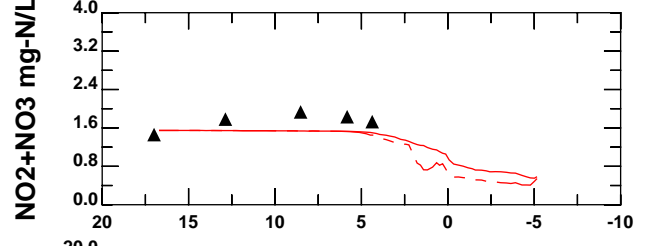
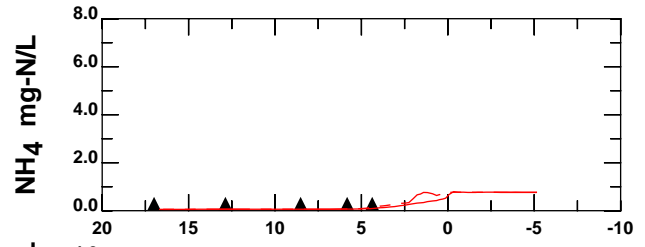
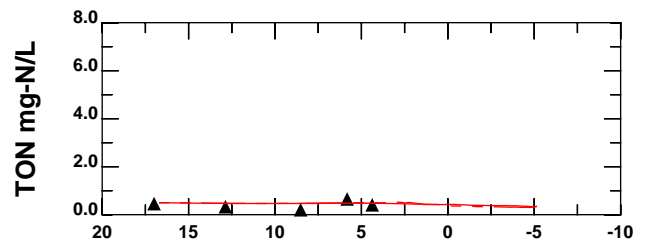




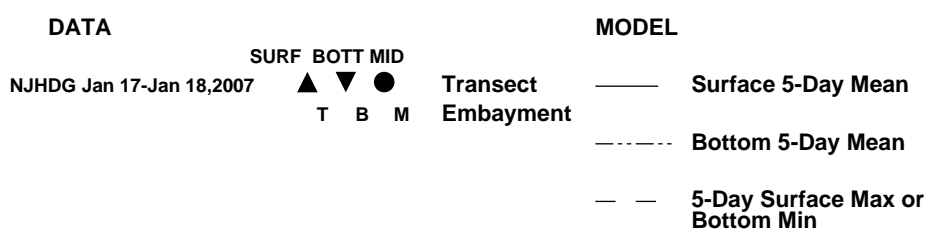
MILE FROM MOUTH PASSAIC RIVER

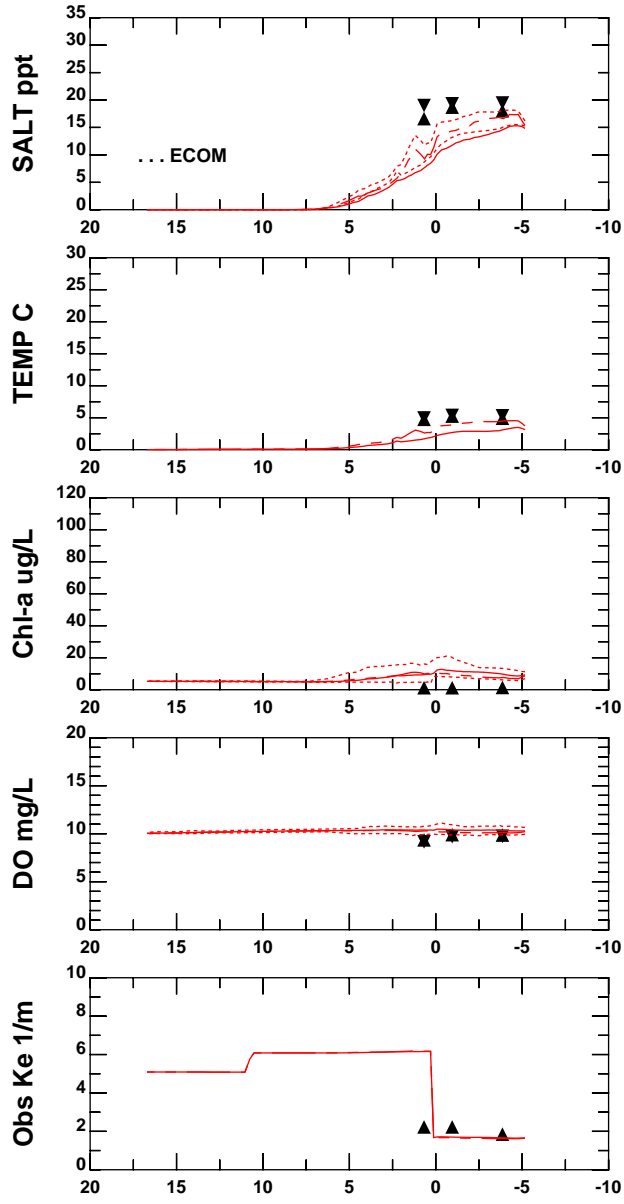
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

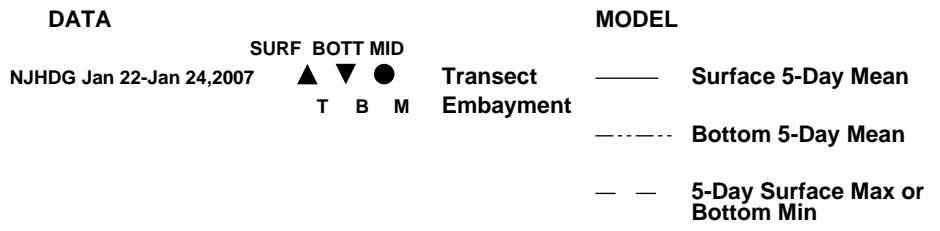
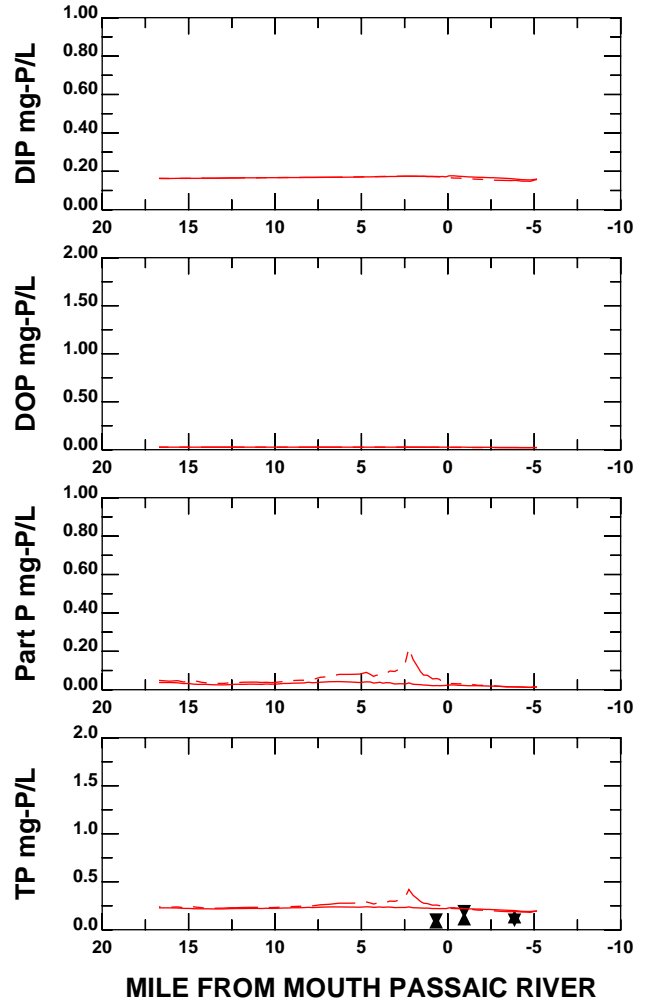


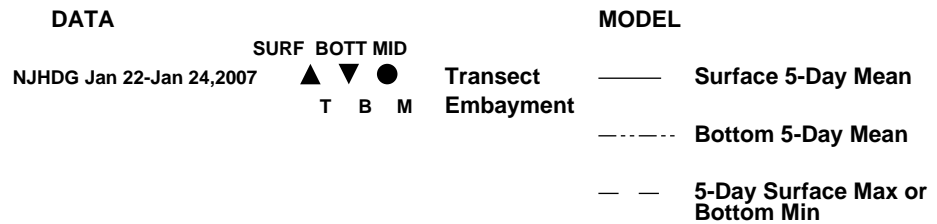
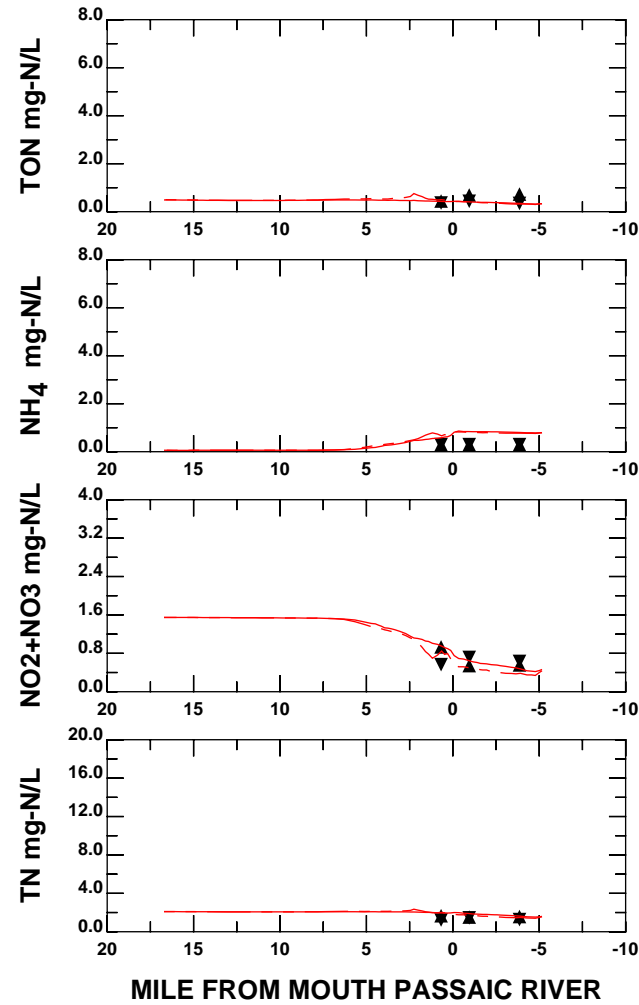
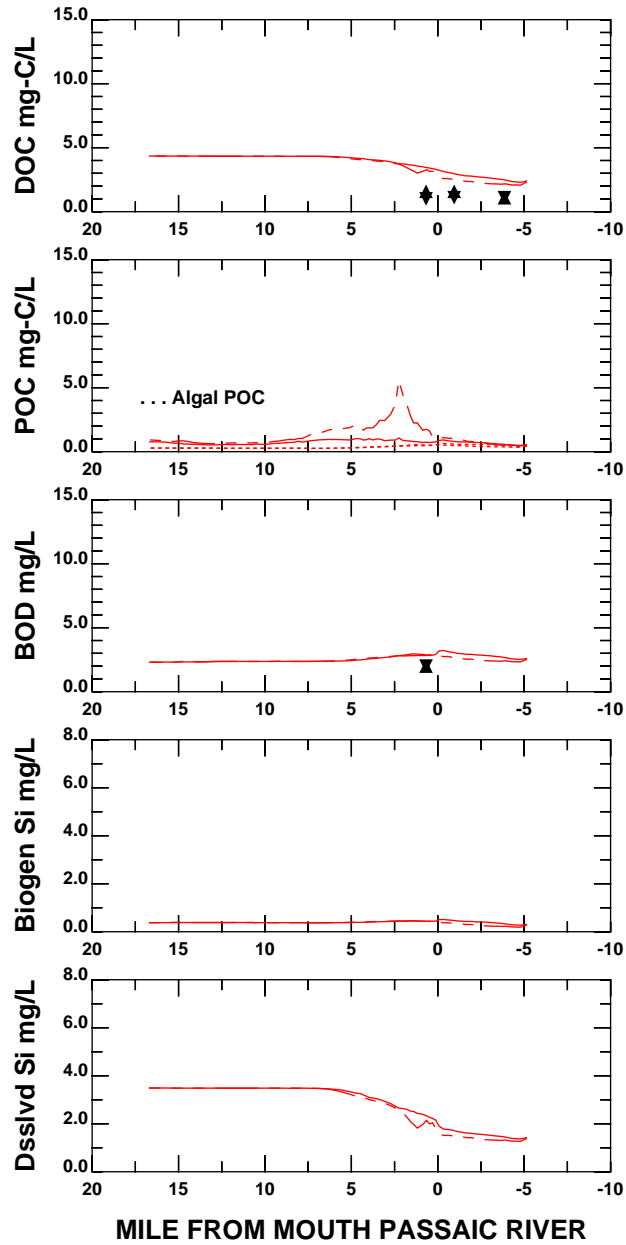


MILE FROM MOUTH PASSAIC RIVER

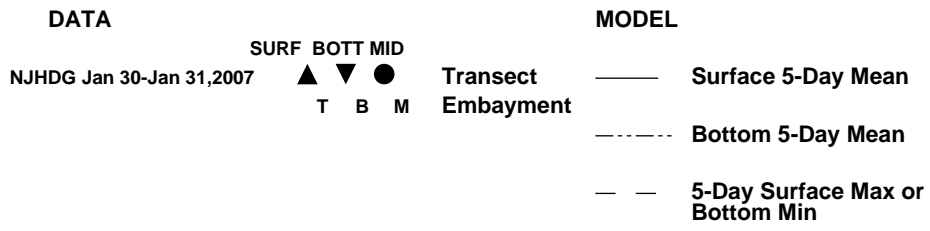
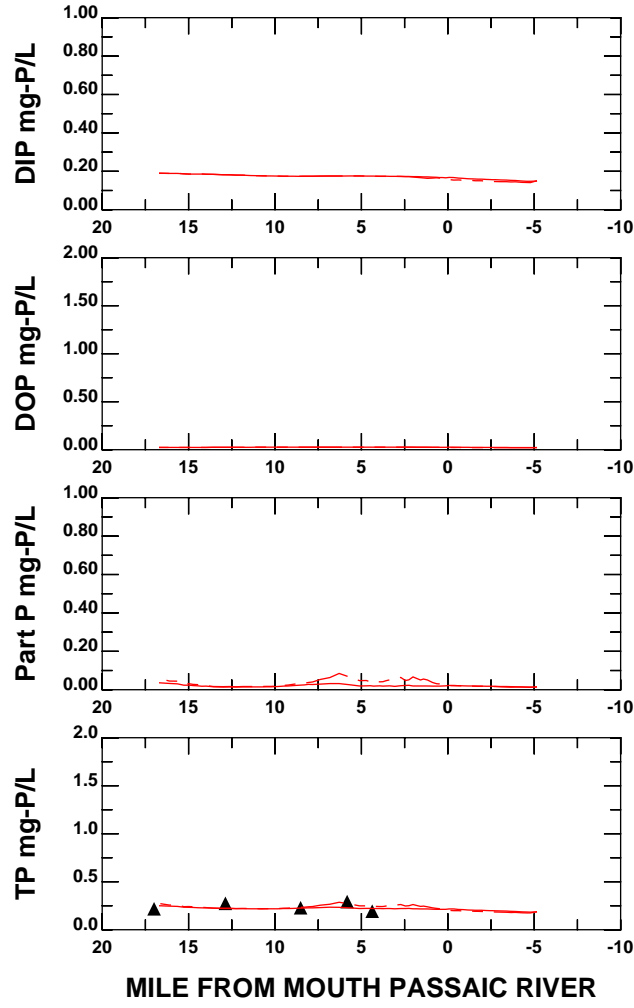
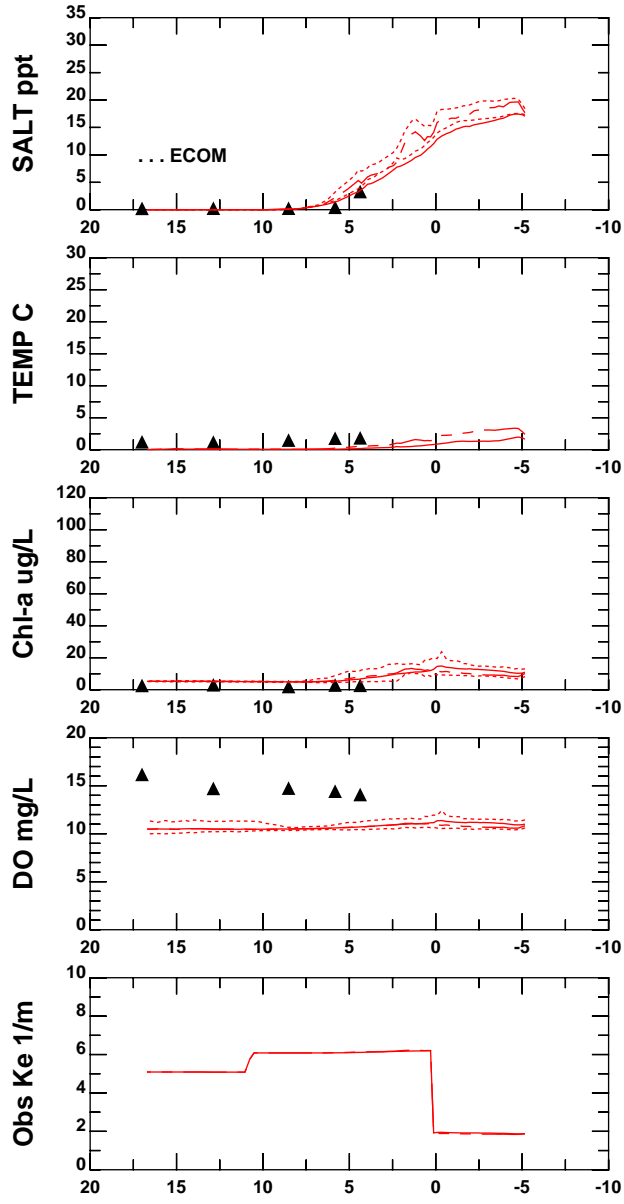
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

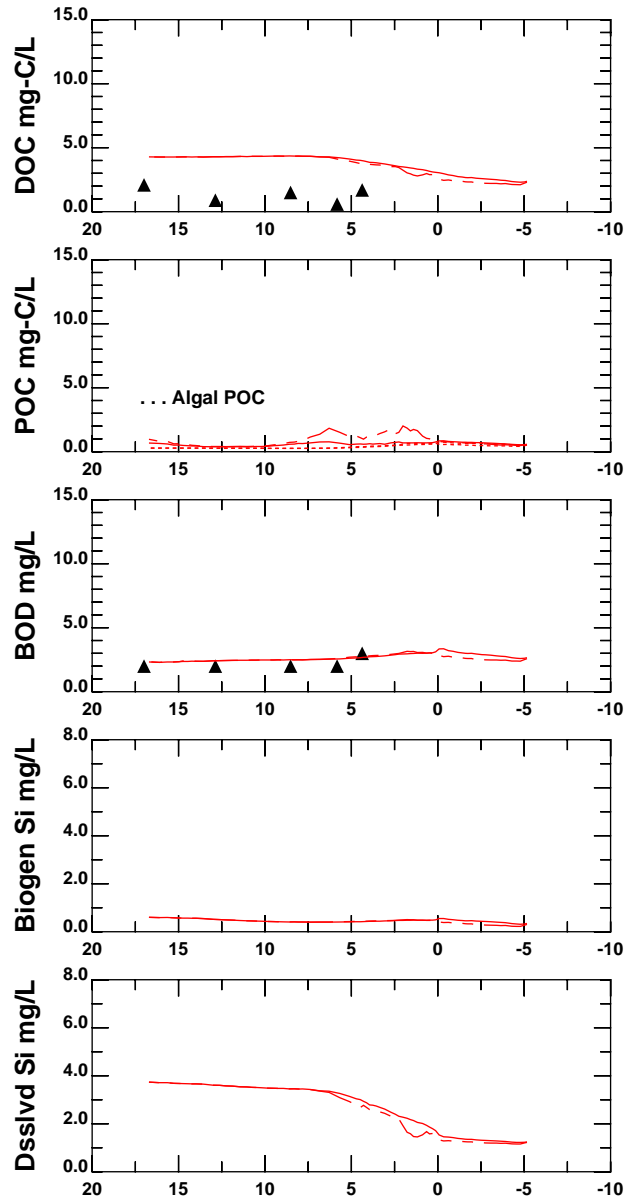




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



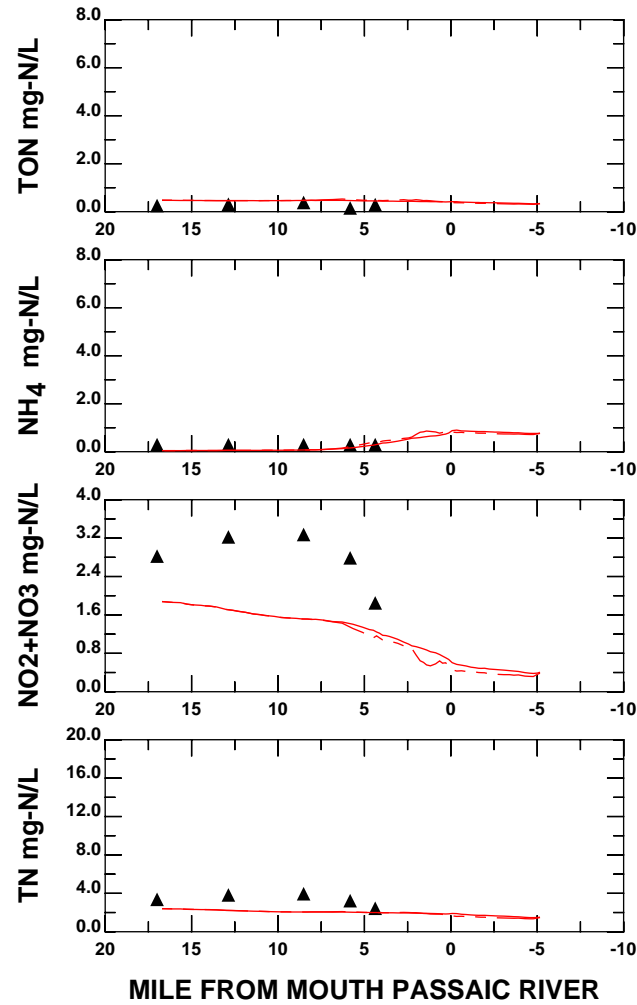
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



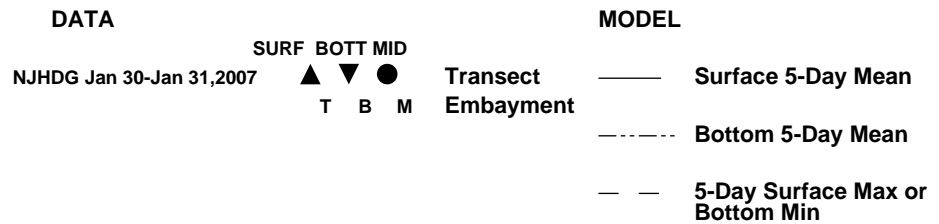
MILE FROM MOUTH PASSAIC RIVER

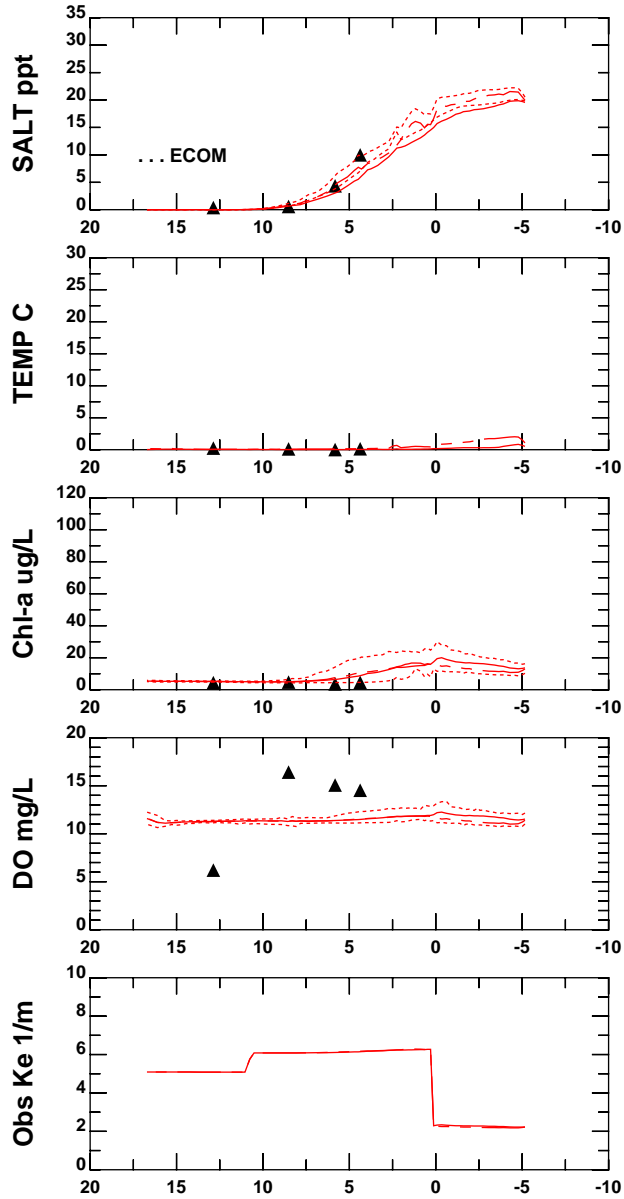
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

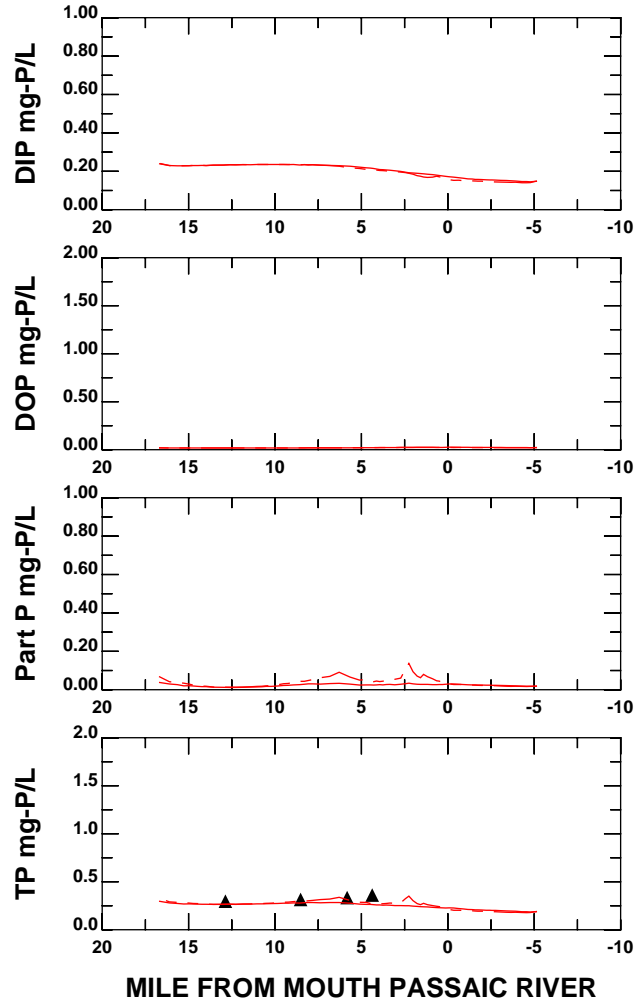


MILE FROM MOUTH PASSAIC RIVER





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

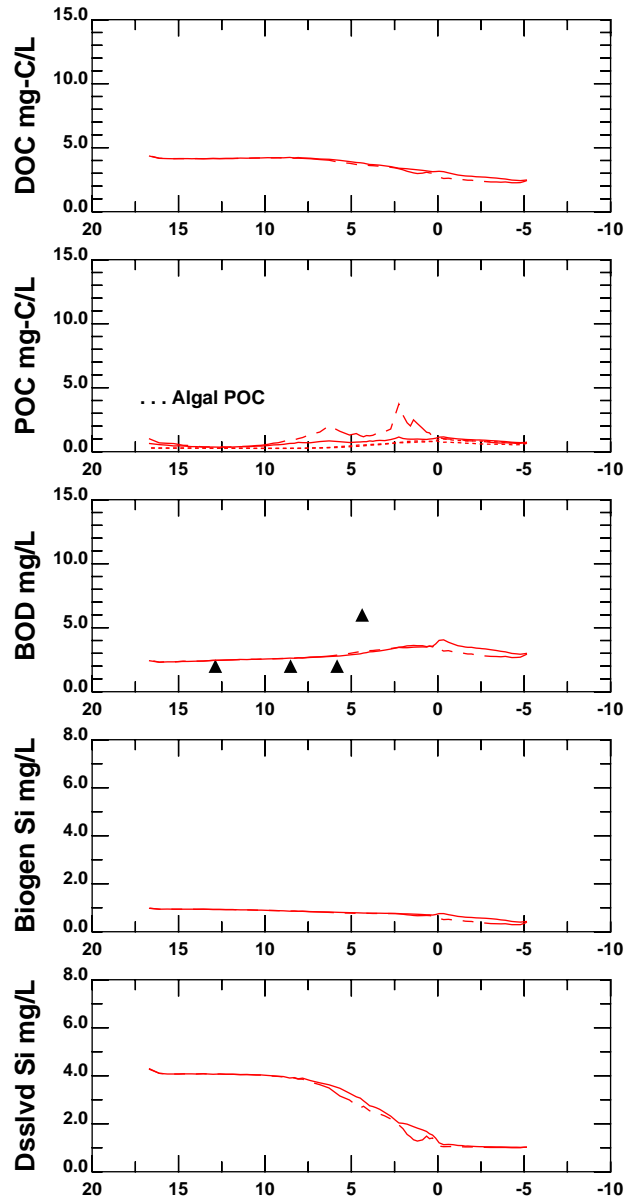


**DATA**  
 NJHDG Feb 15,2007

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

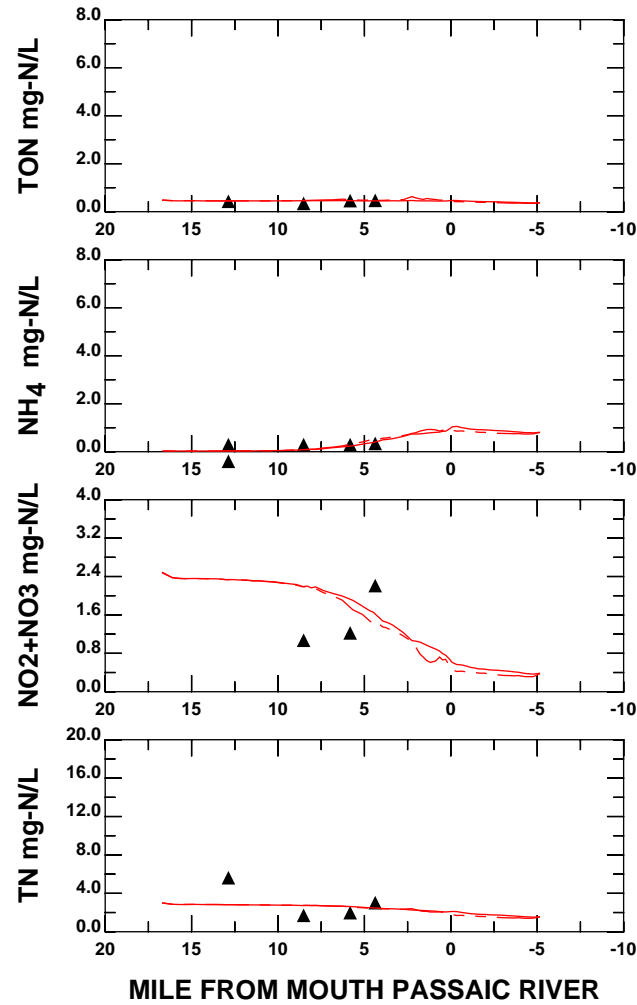
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Feb 15,2007

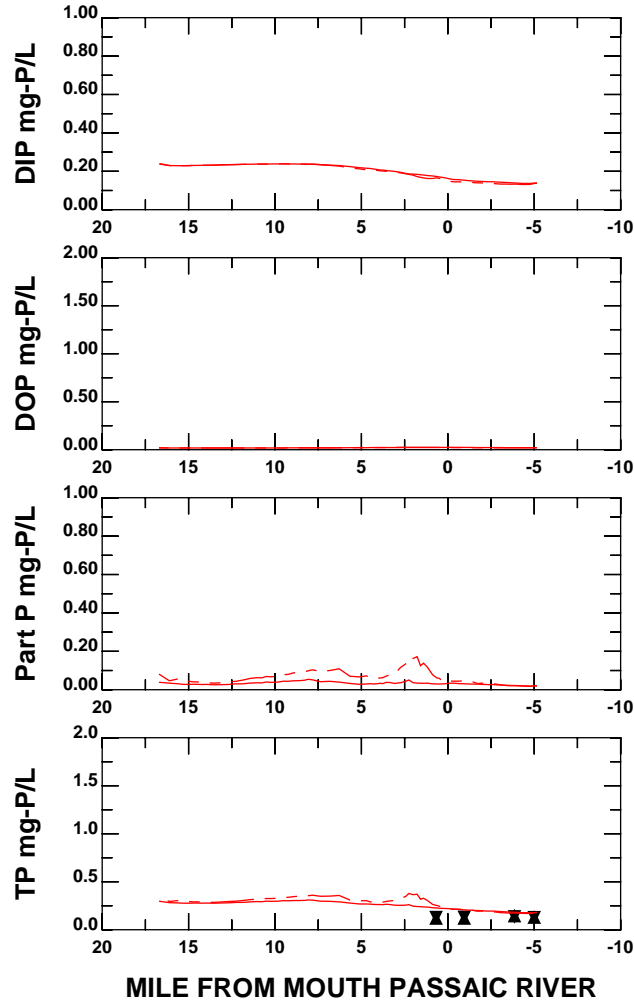
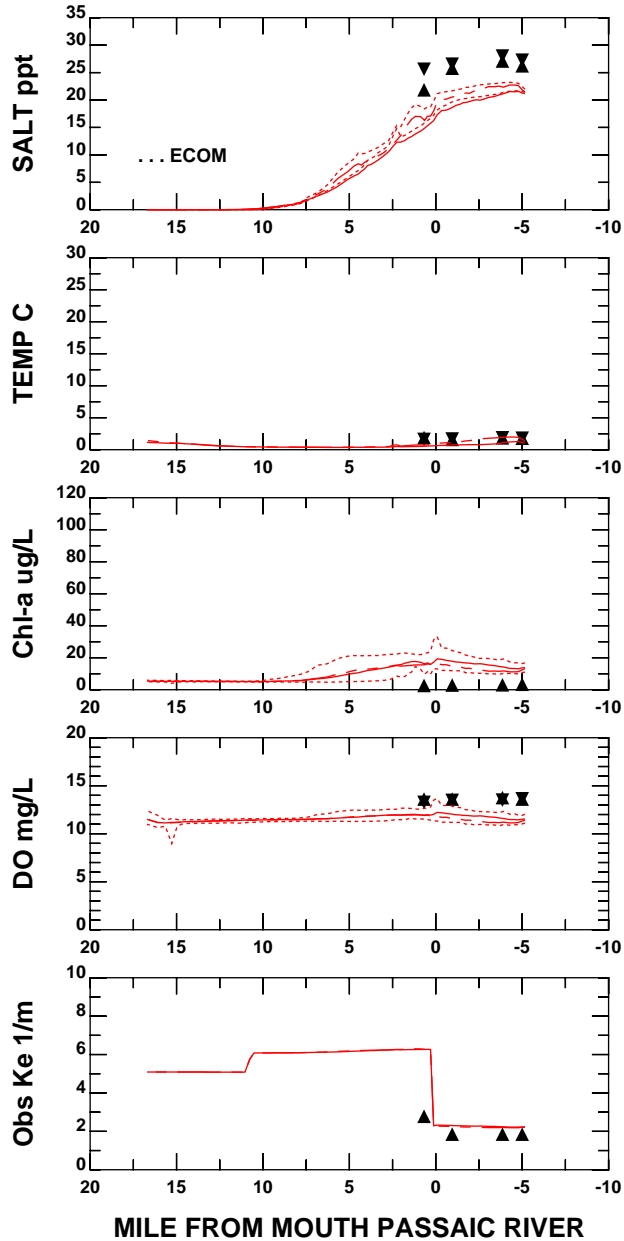
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



**DATA**  
NJHDG Feb 22,2007

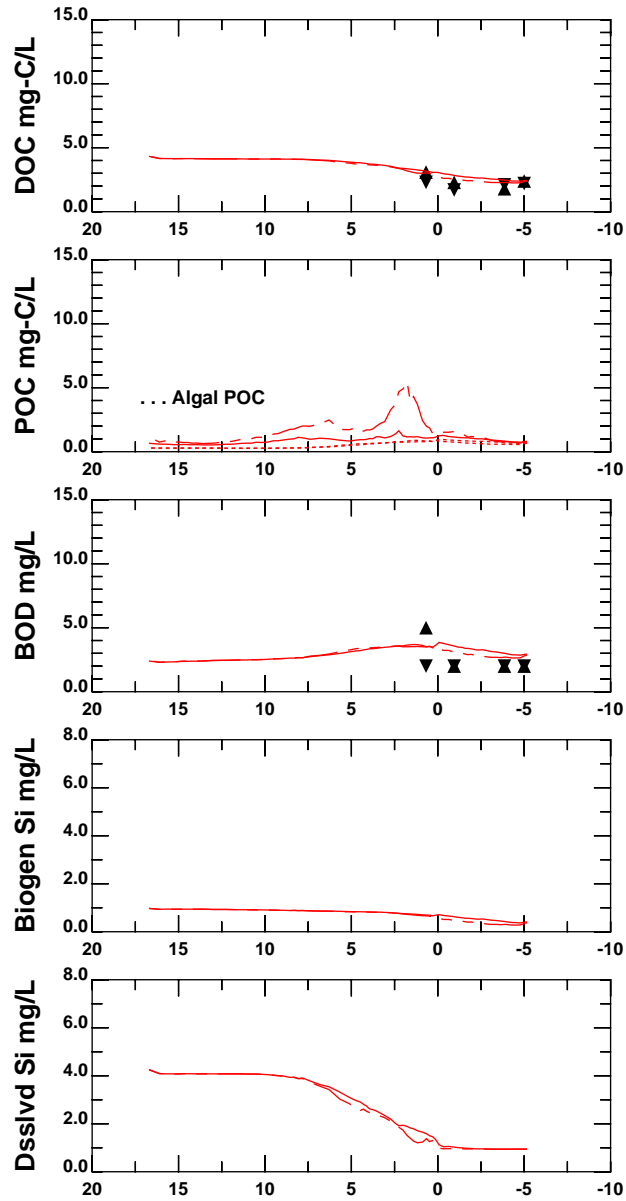
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

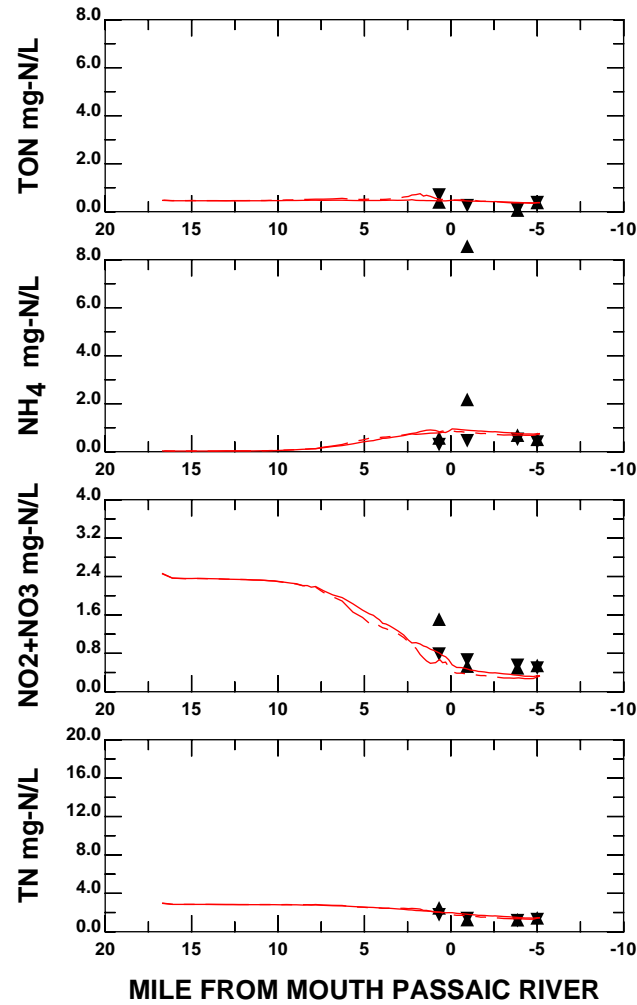




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Feb 22, 2007

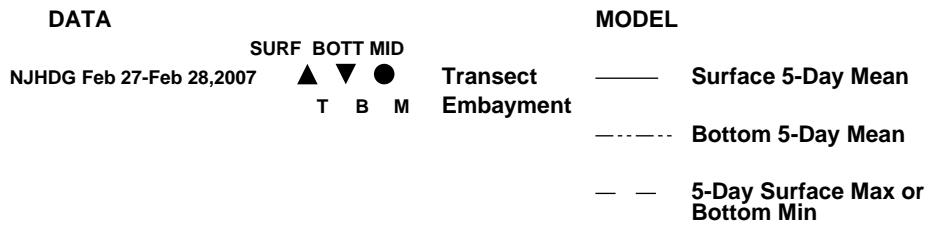
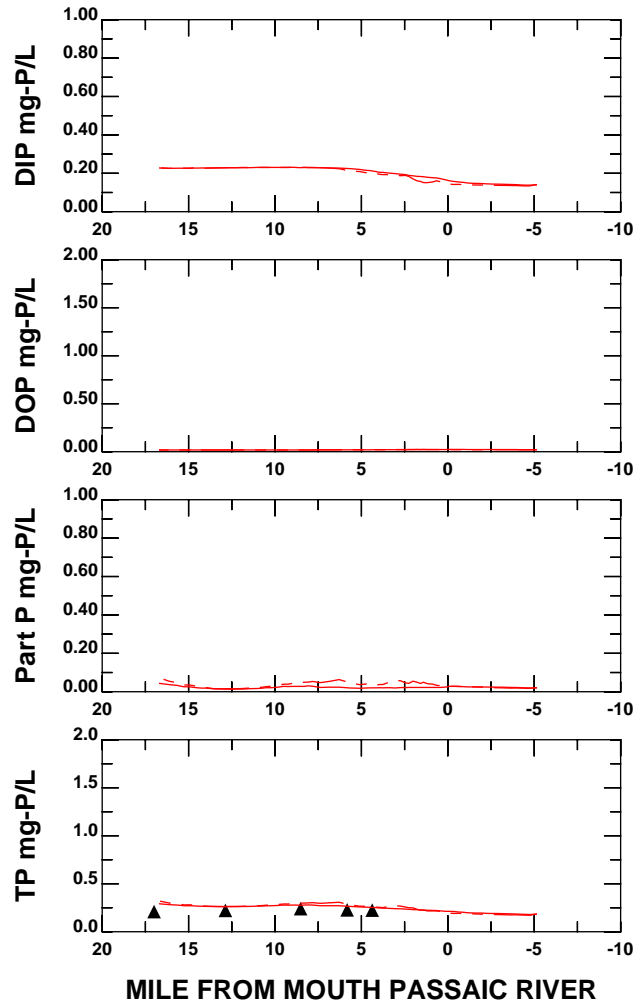
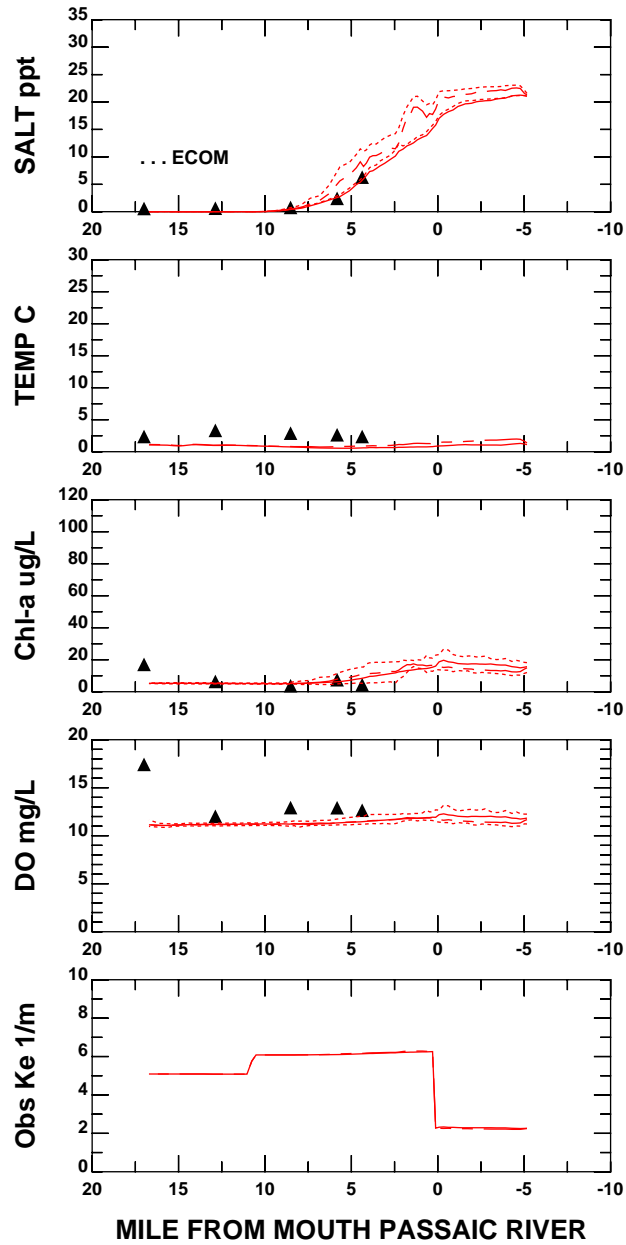
SURF BOTT MID

▲ ▼ ●  
T B M

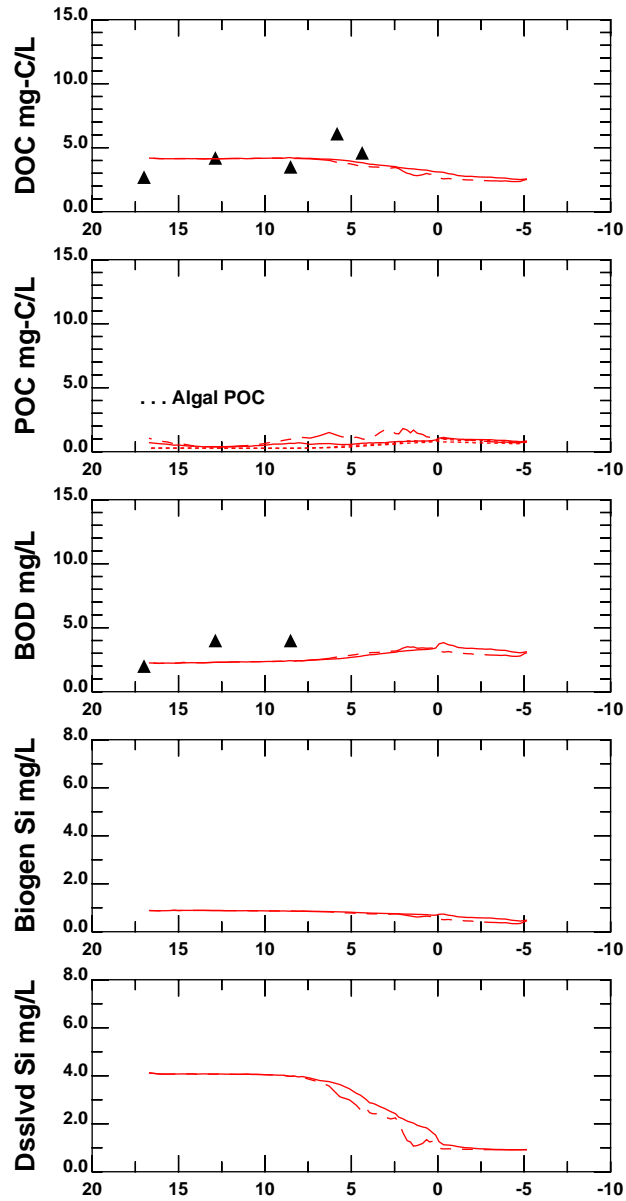
Transect  
Embayment

#### MODEL

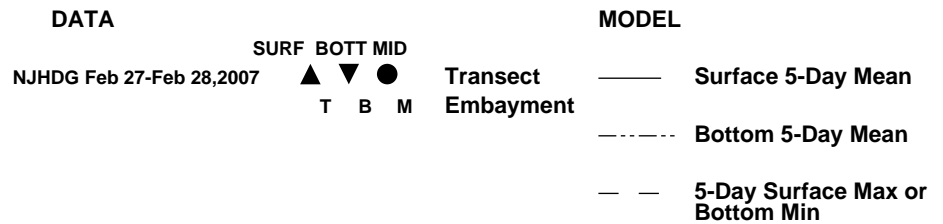
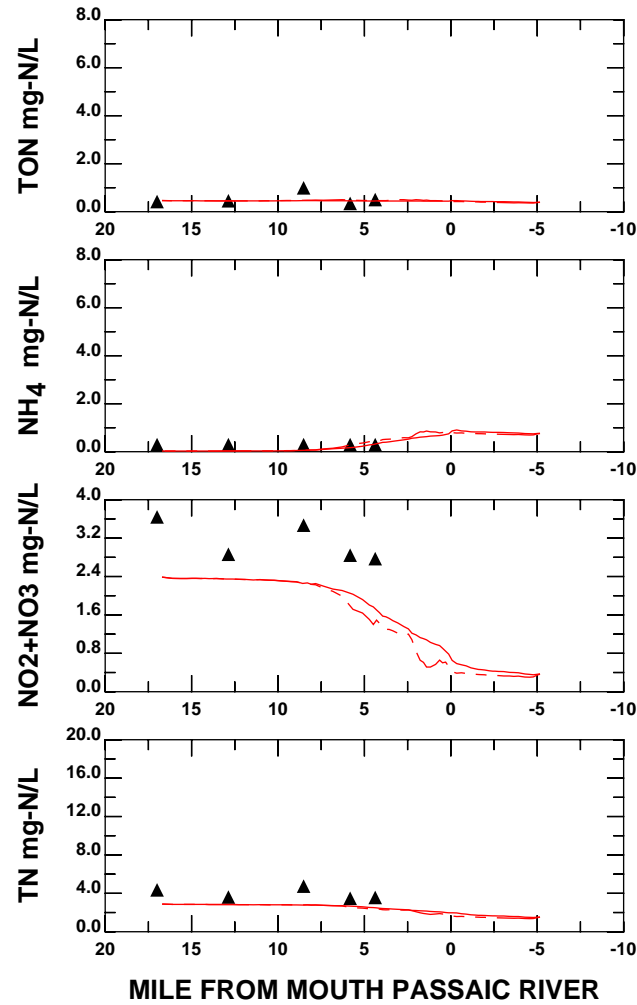
— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

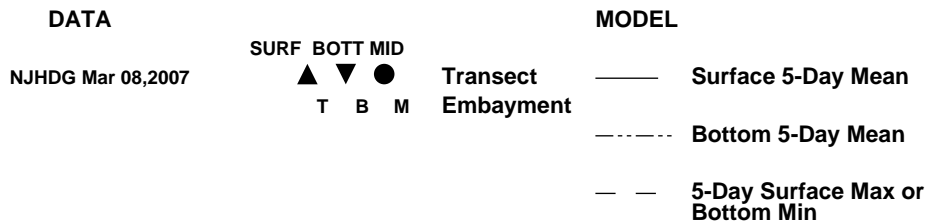
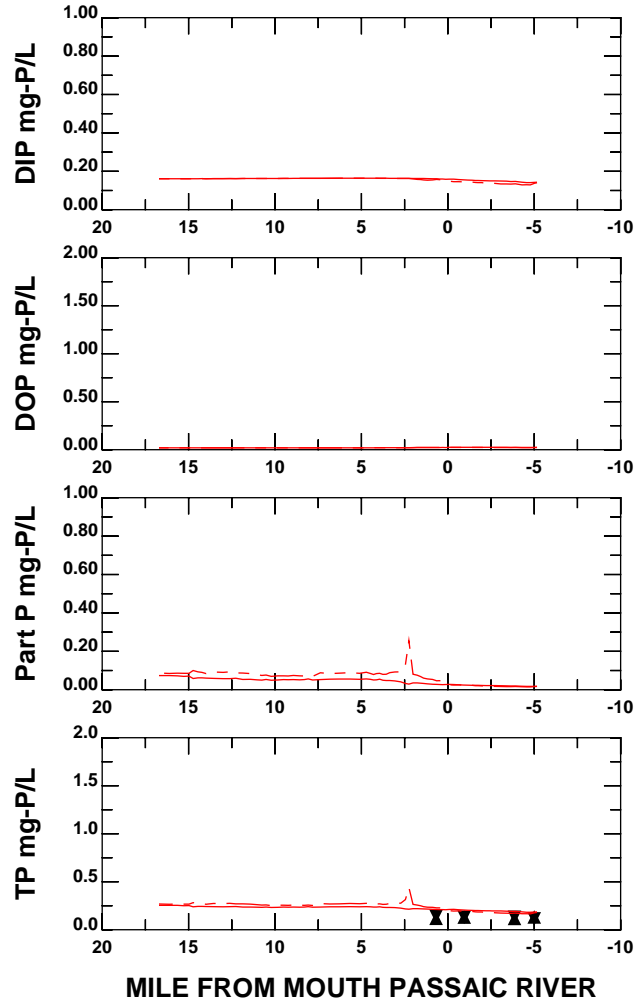
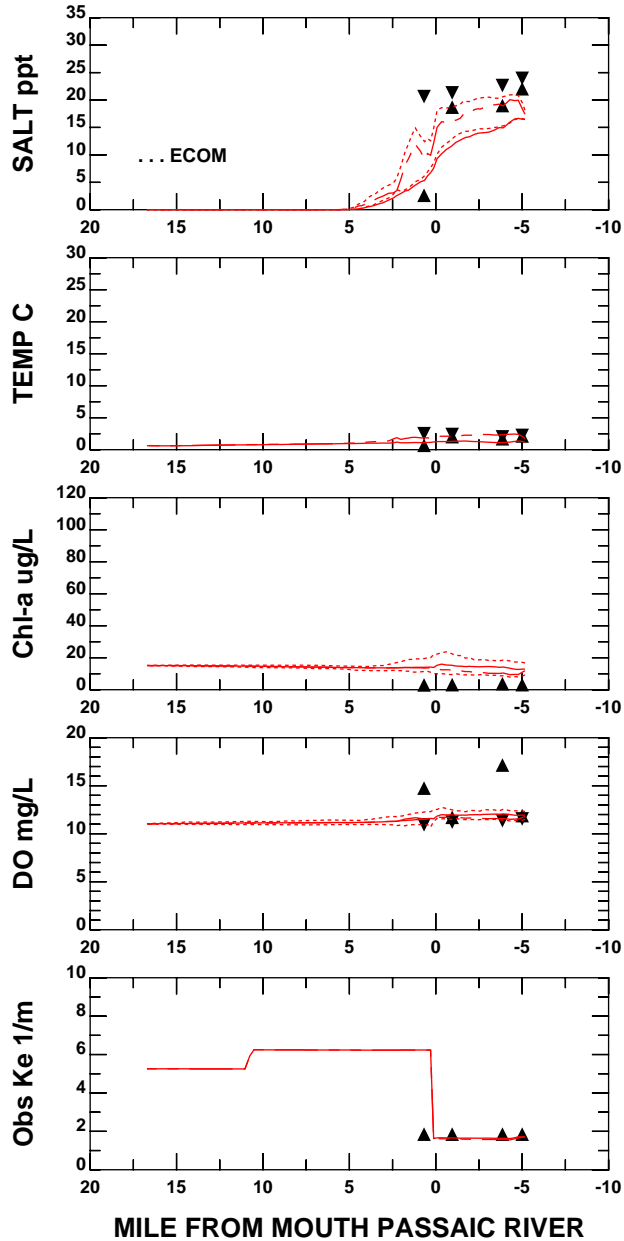


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

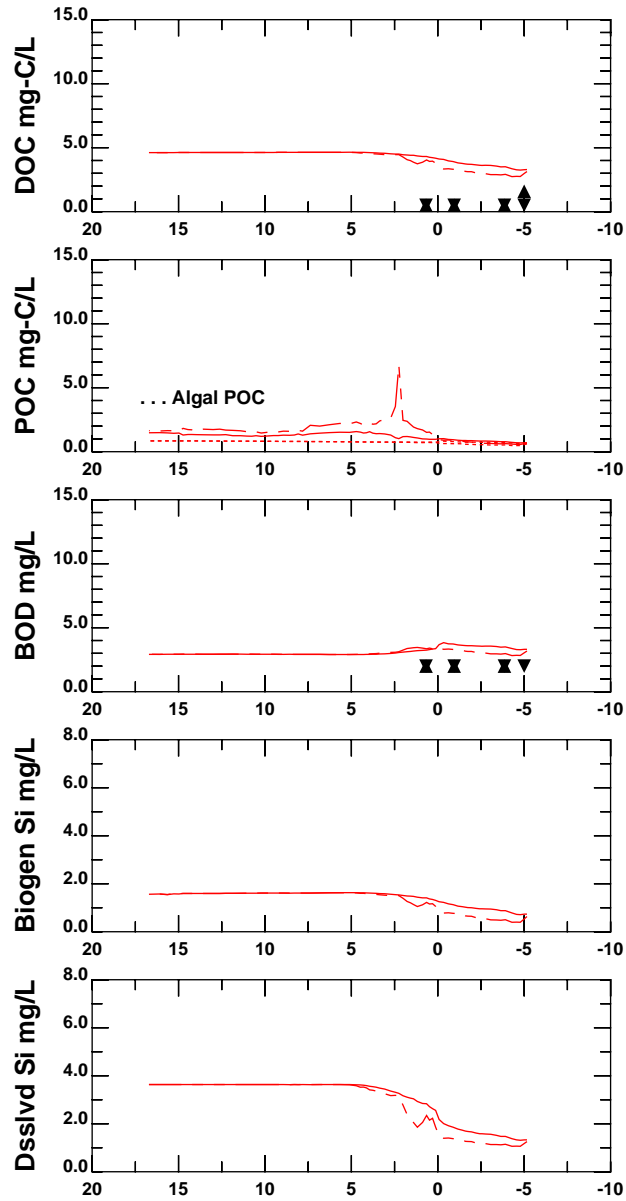


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607





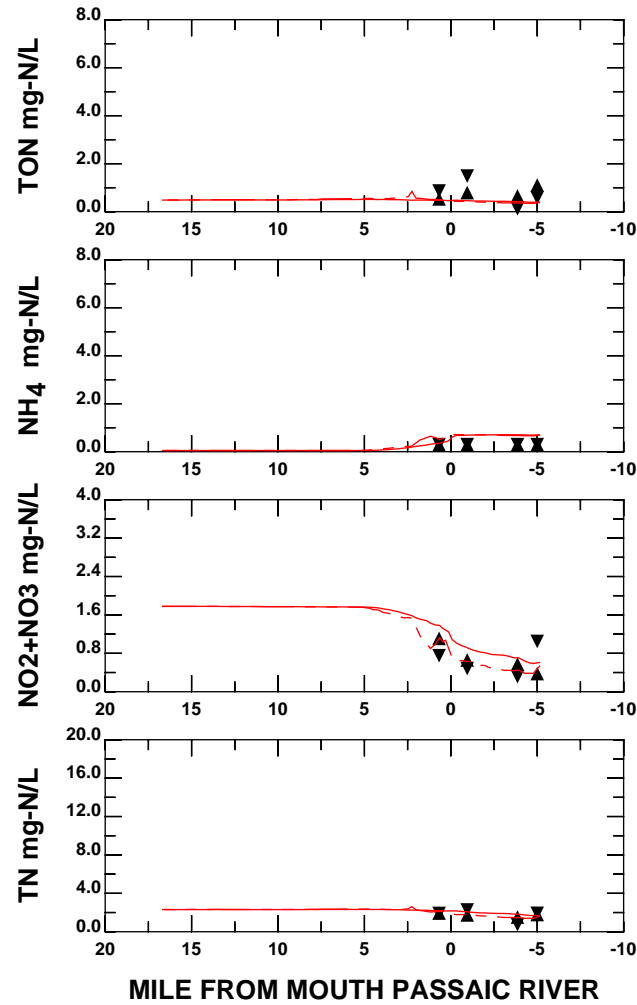
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Mar 08,2007

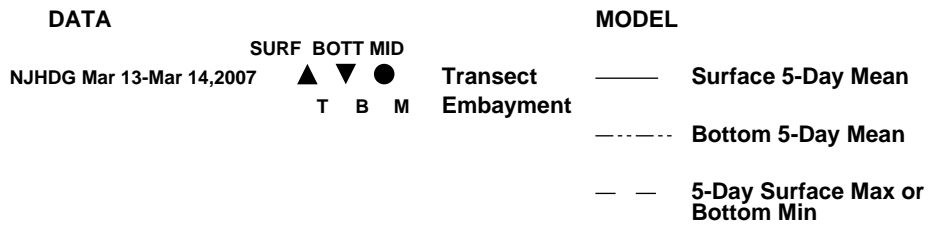
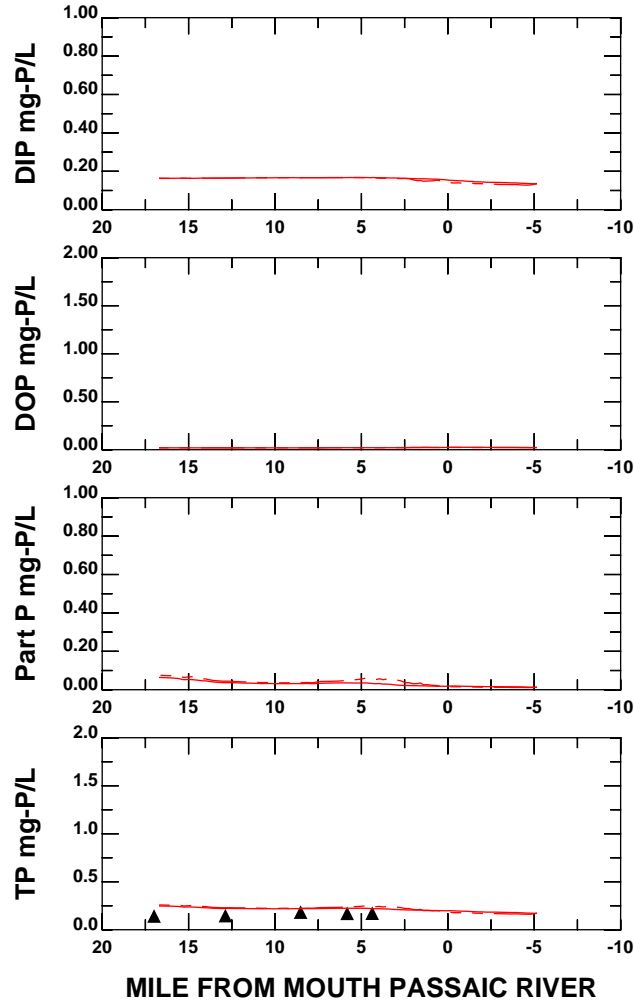
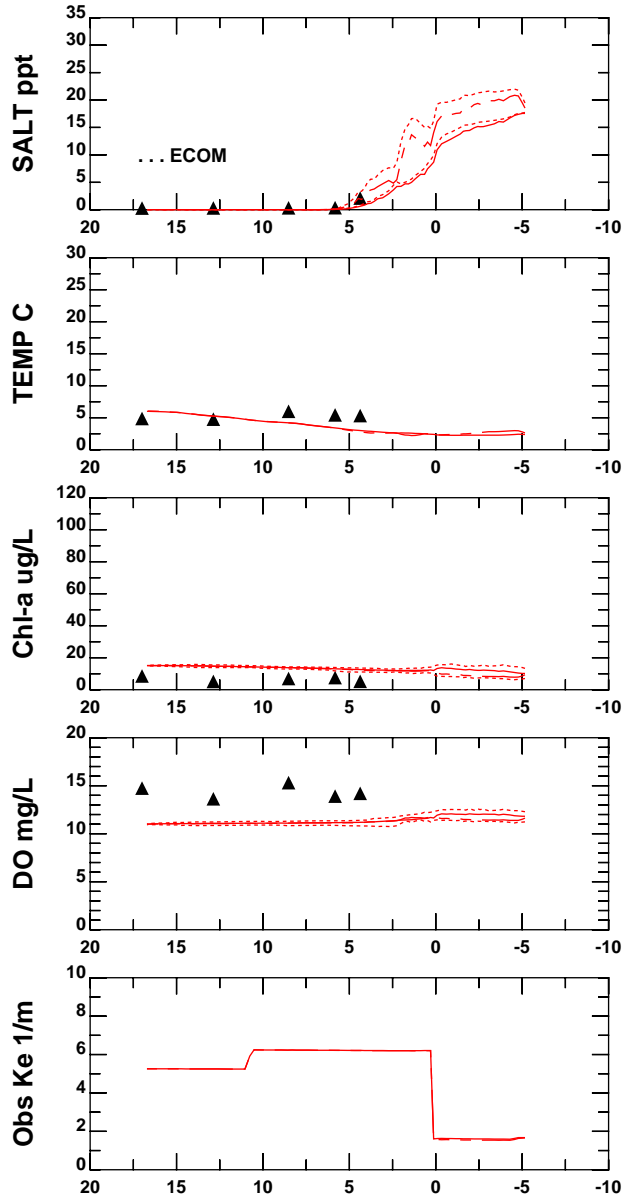
SURF BOTT MID

▲ ▼ ●  
T B M

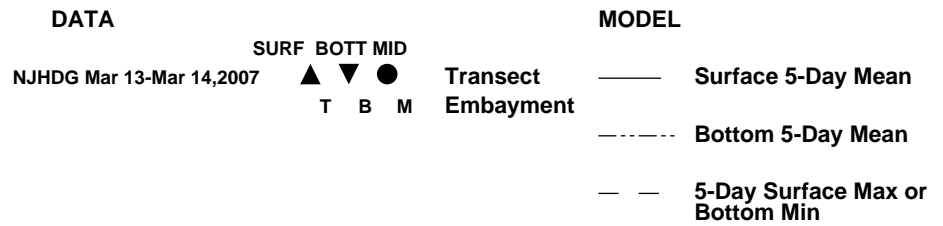
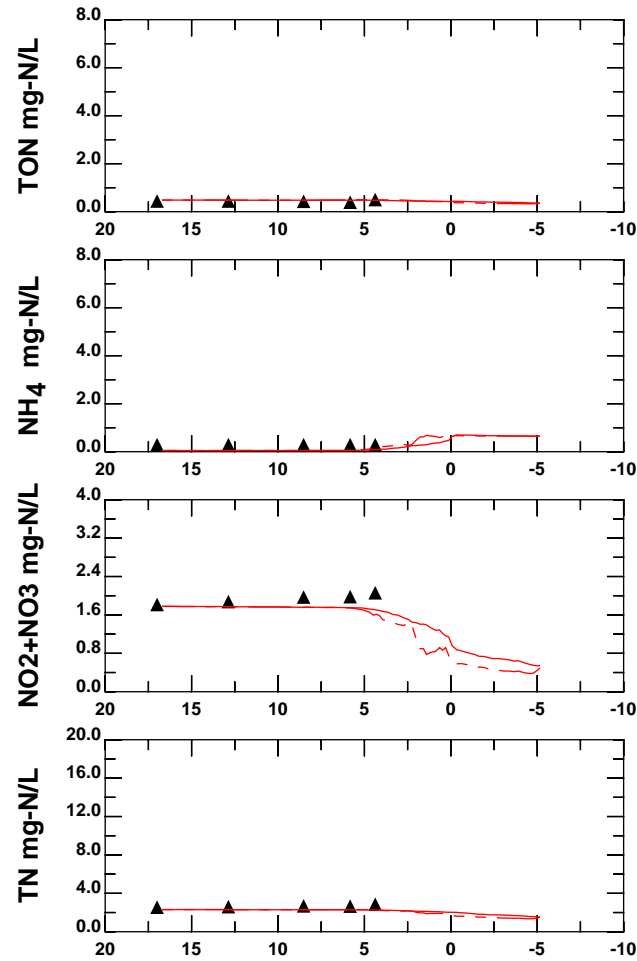
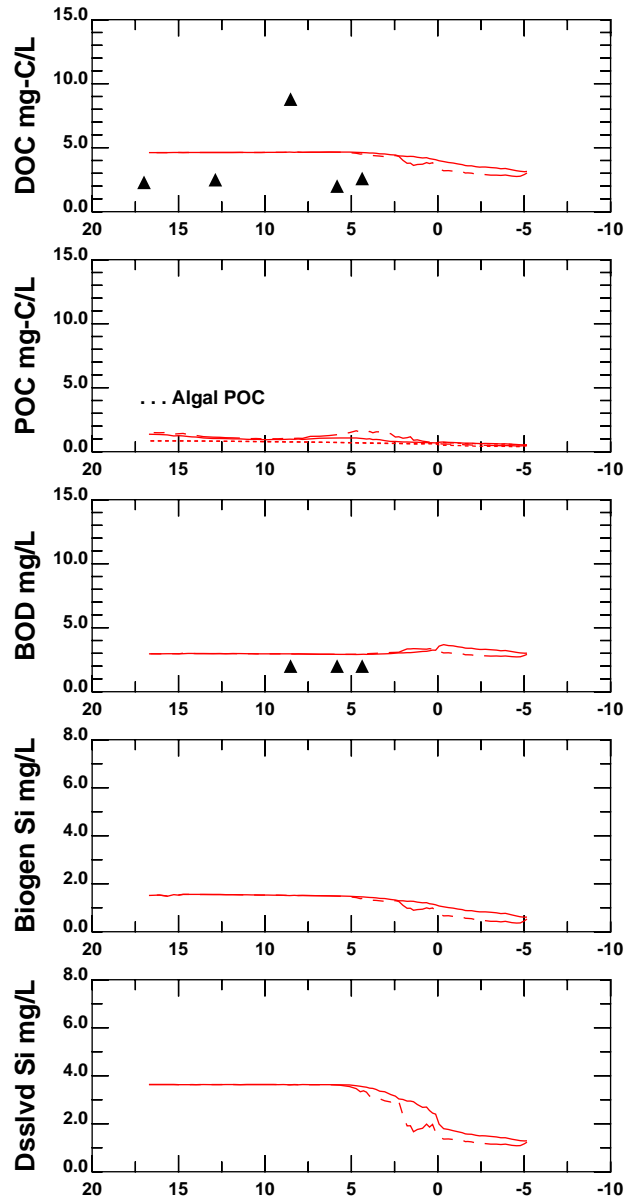
Transect  
Embayment

#### MODEL

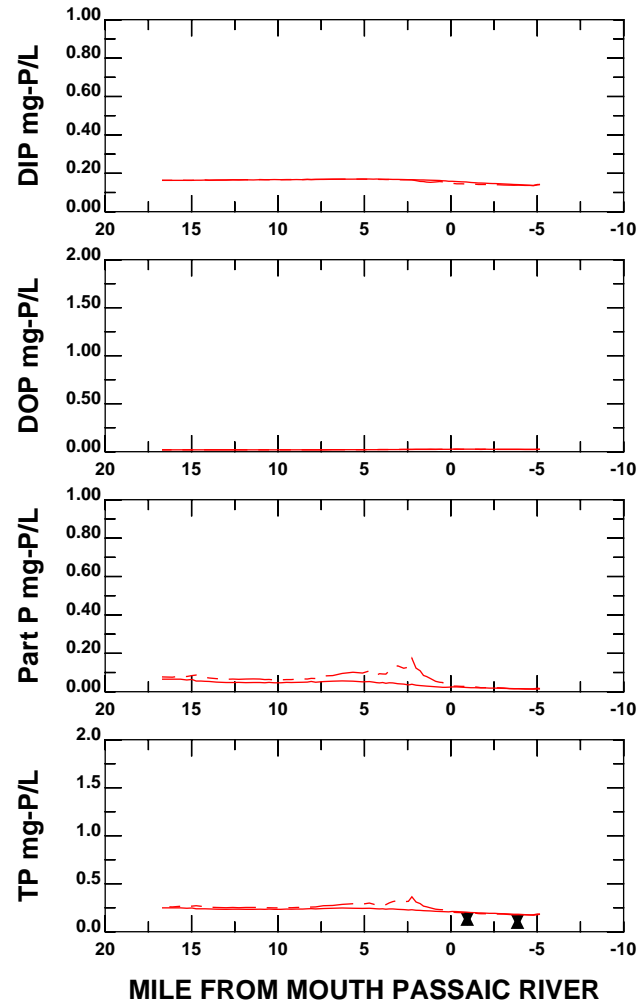
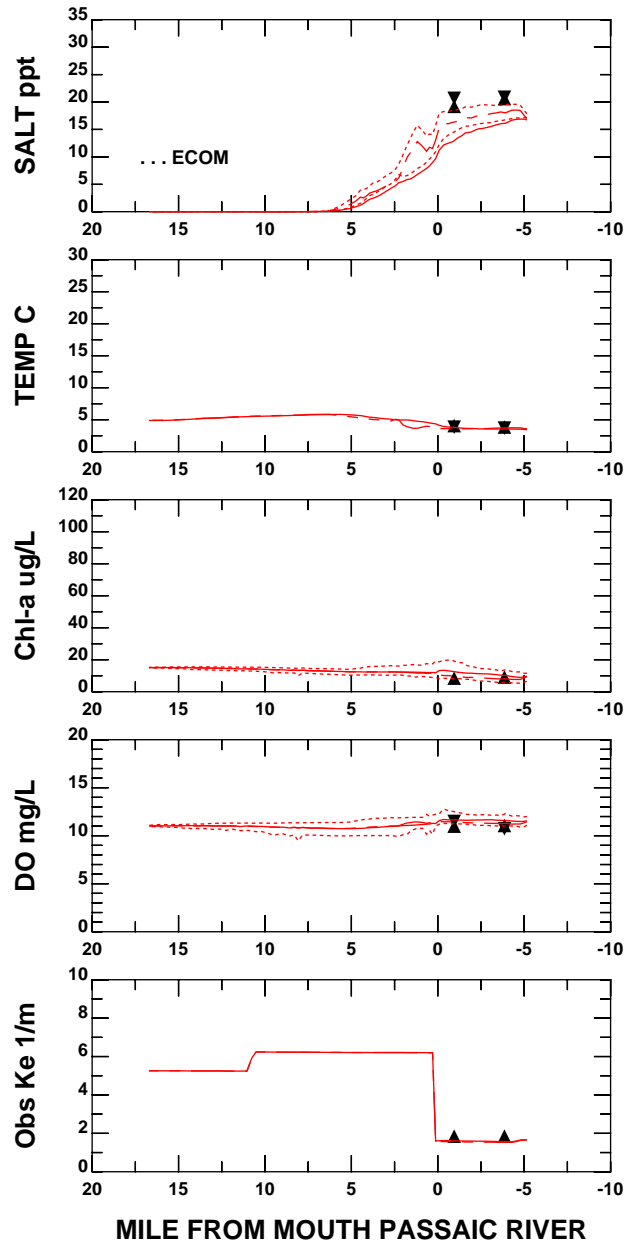
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**DATA**  
NJHDG Mar 19,2007

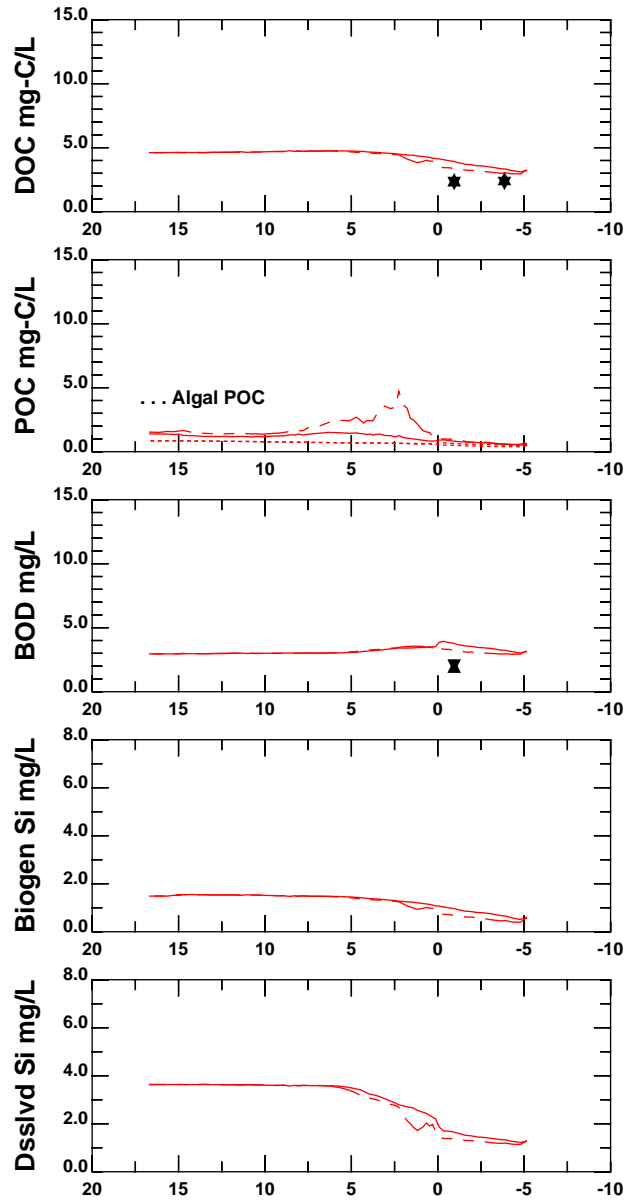
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

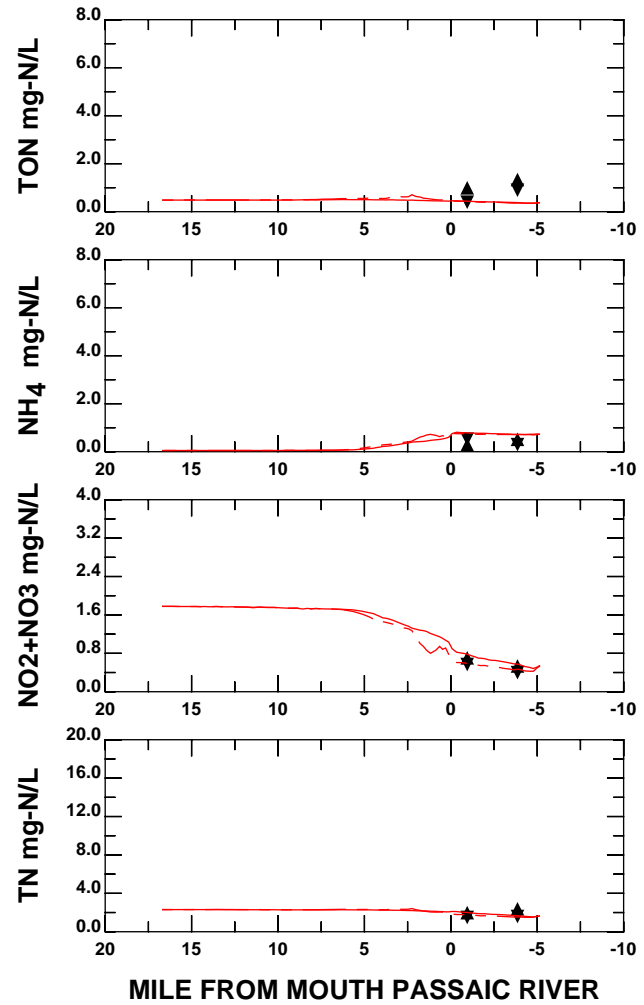




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

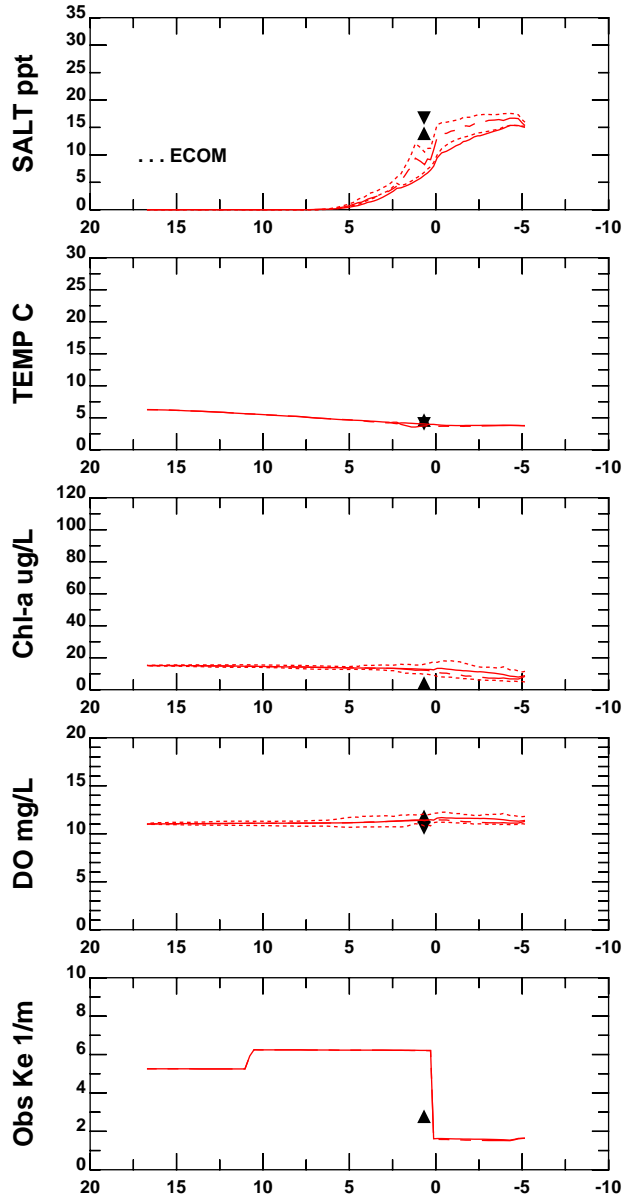


MILE FROM MOUTH PASSAIC RIVER

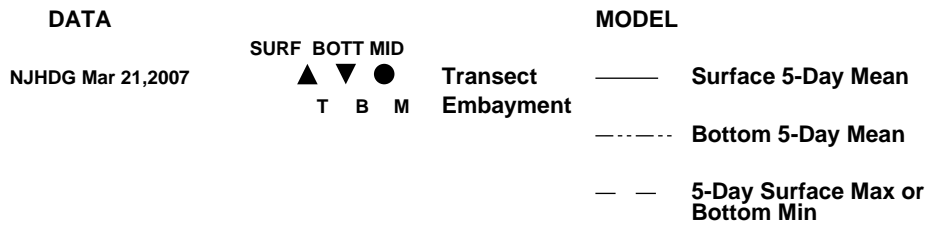
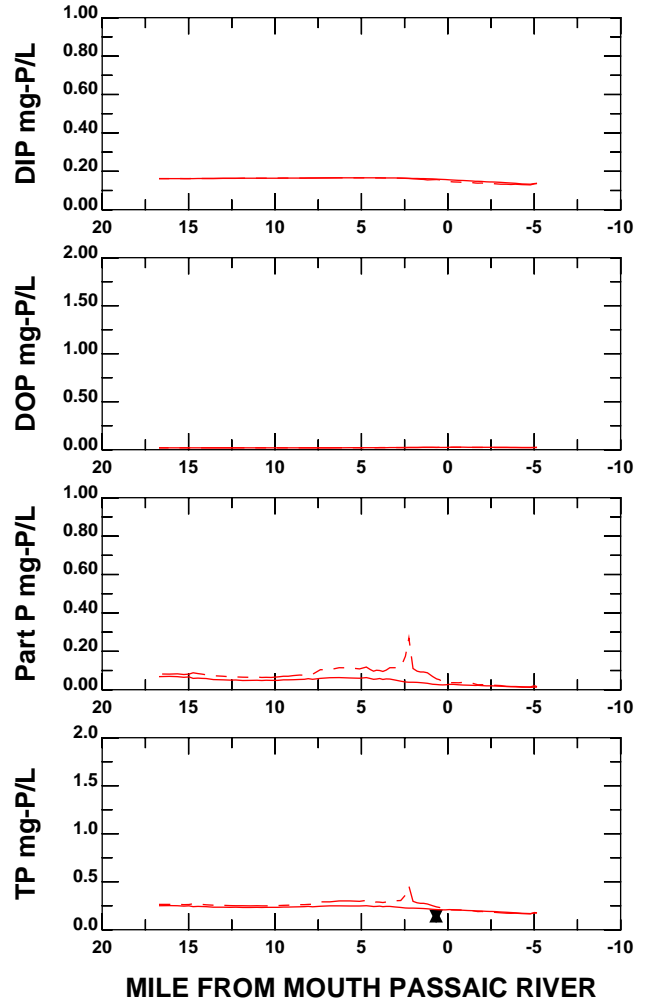
DATA  
NJHDG Mar 19,2007

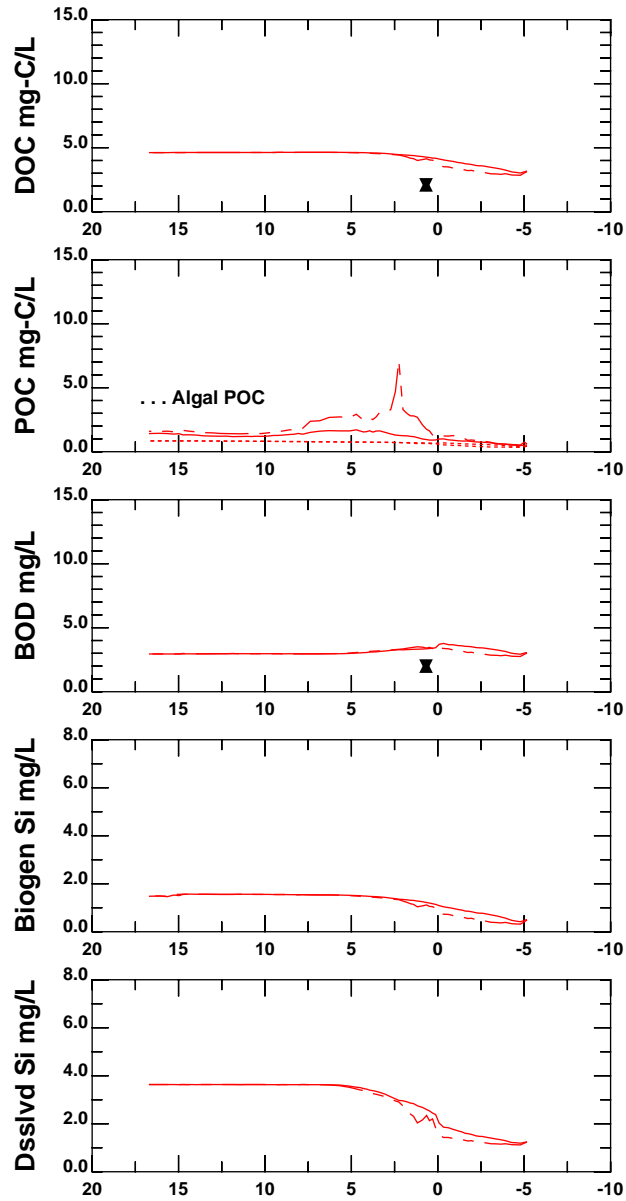
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

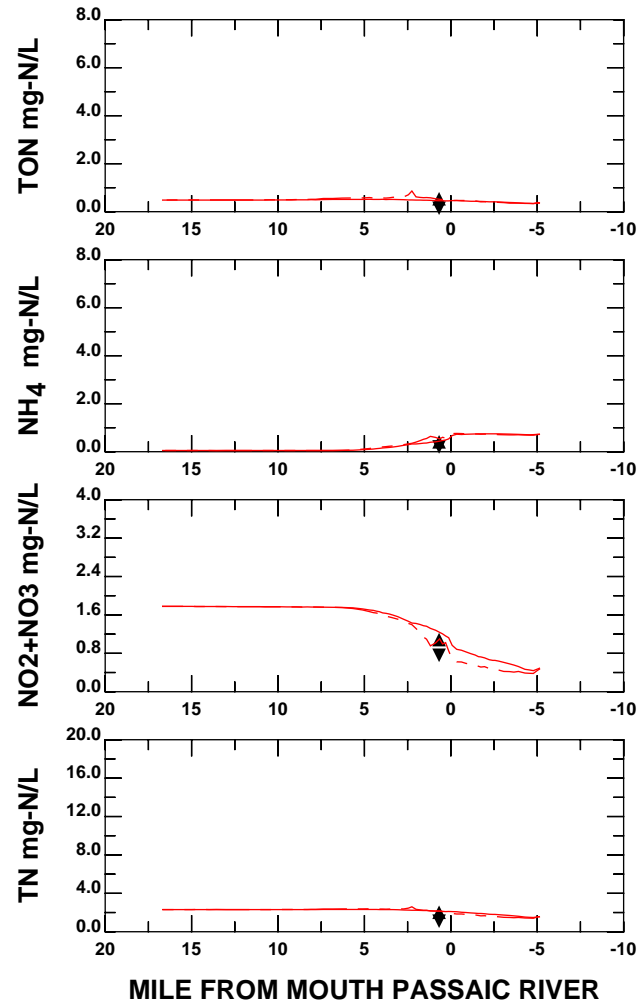




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Mar 21,2007

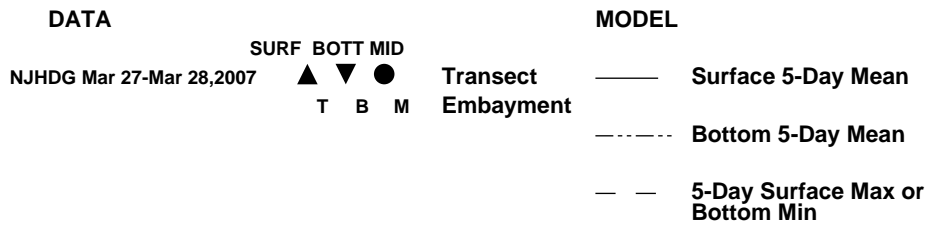
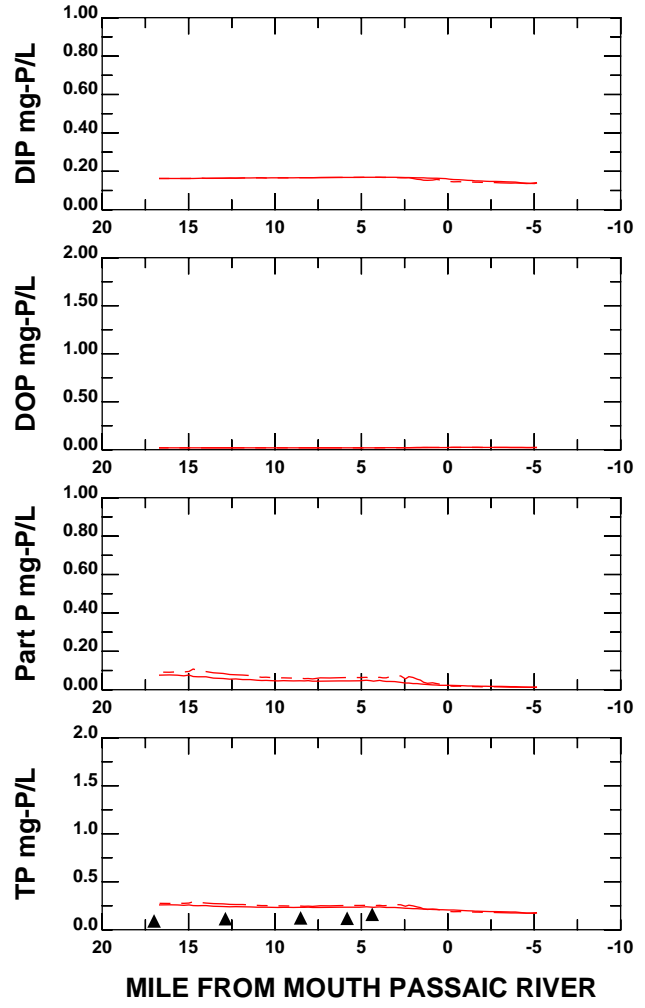
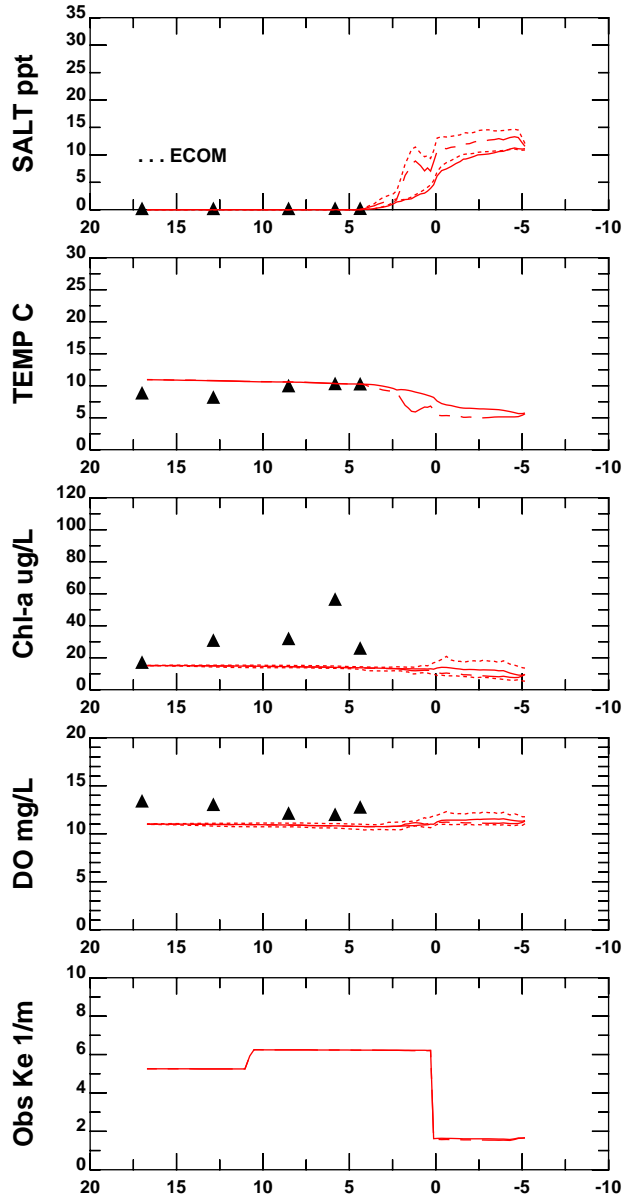
SURF BOTT MID

▲ ▼ ●  
T B M

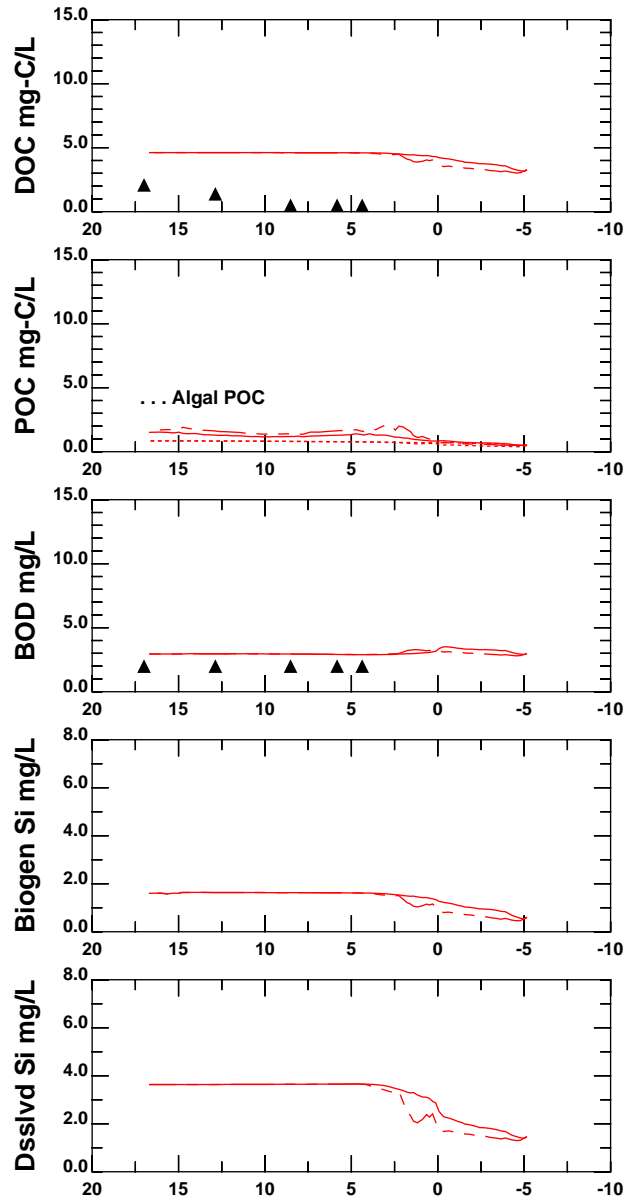
Transect  
Embayment

#### MODEL

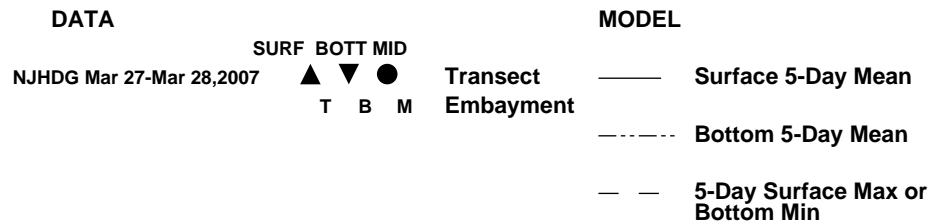
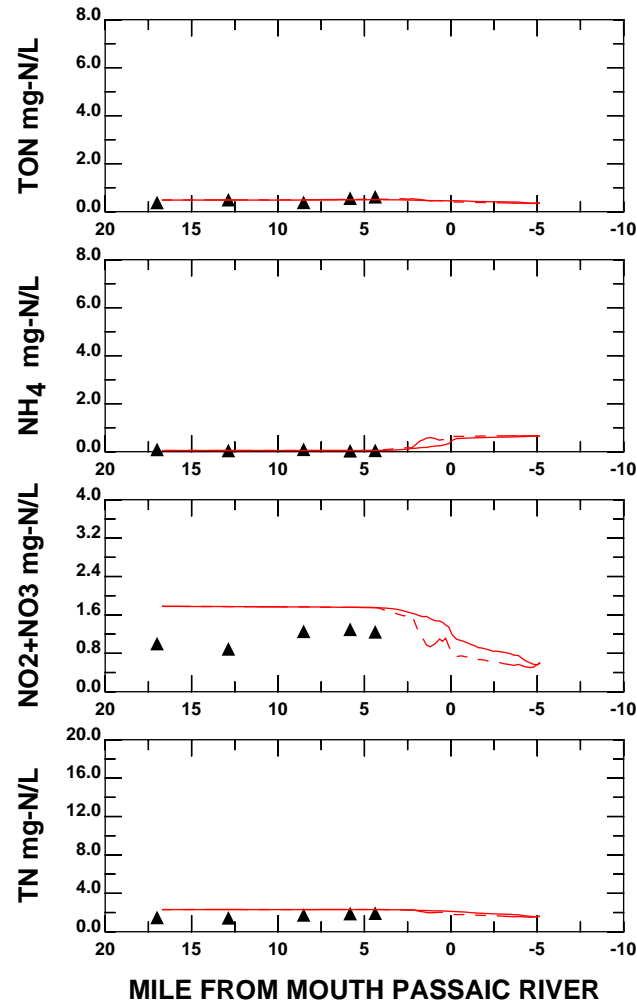
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min

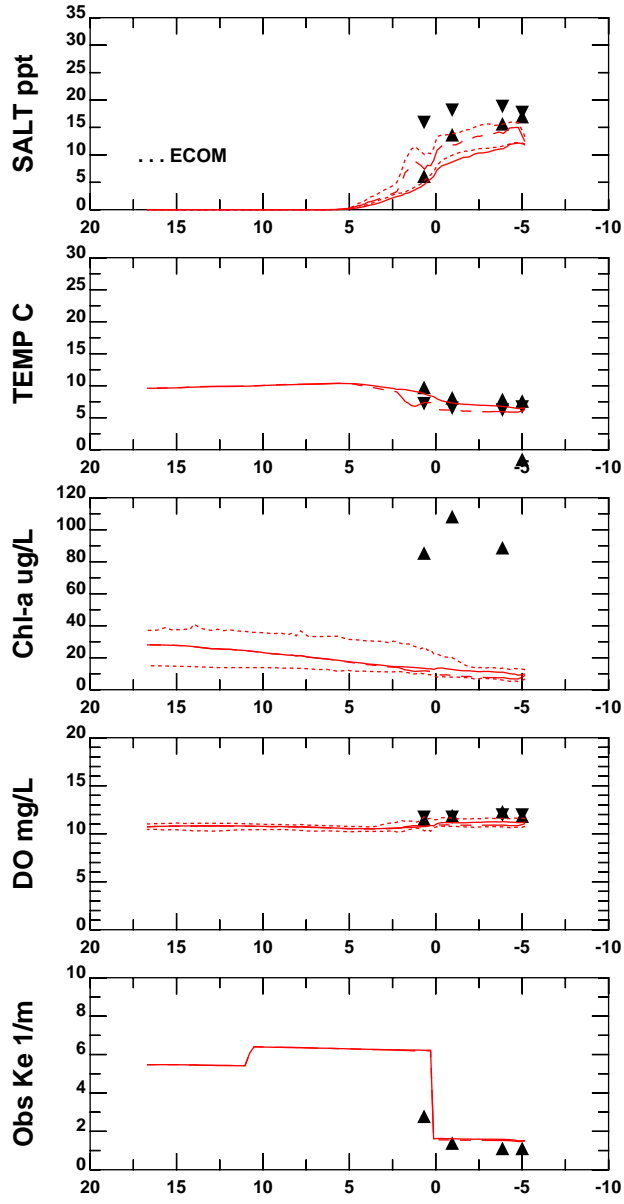


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

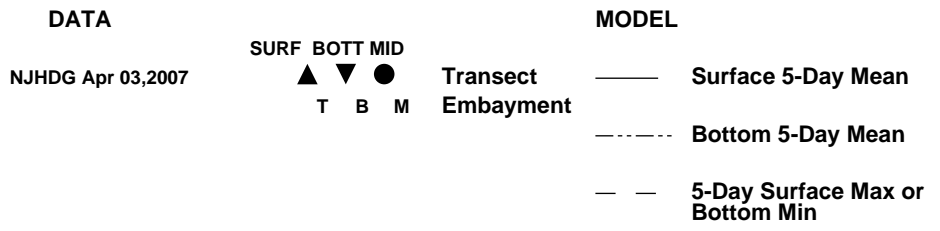
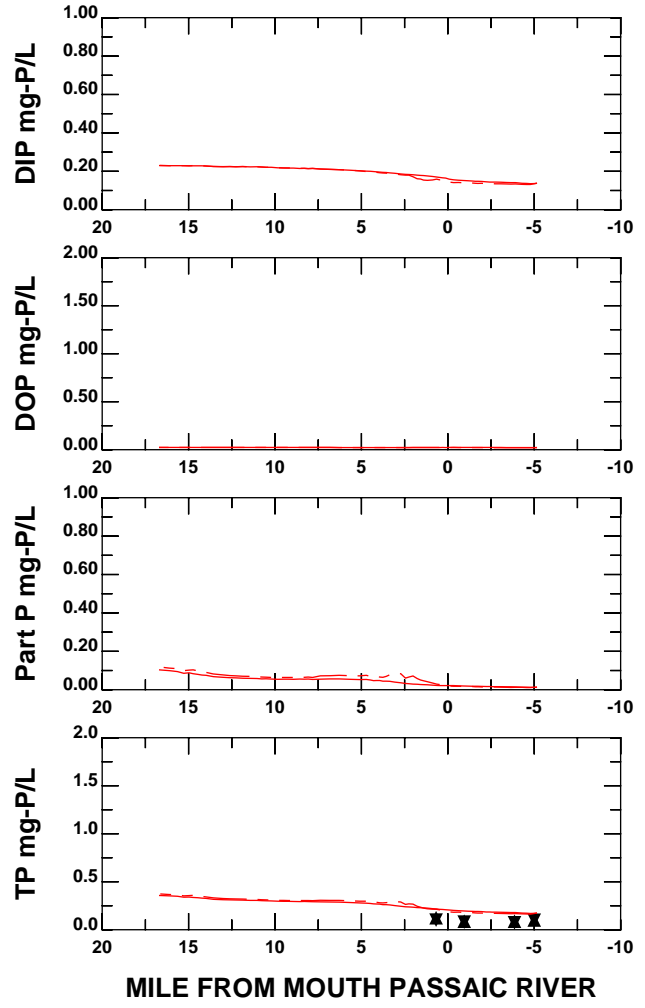


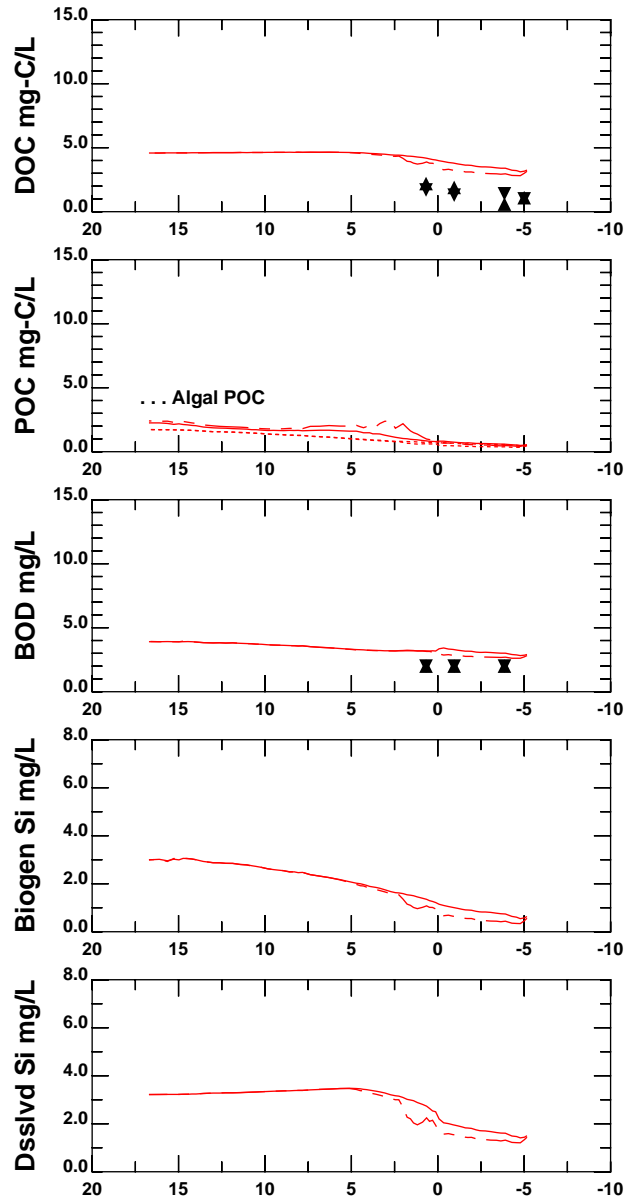
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

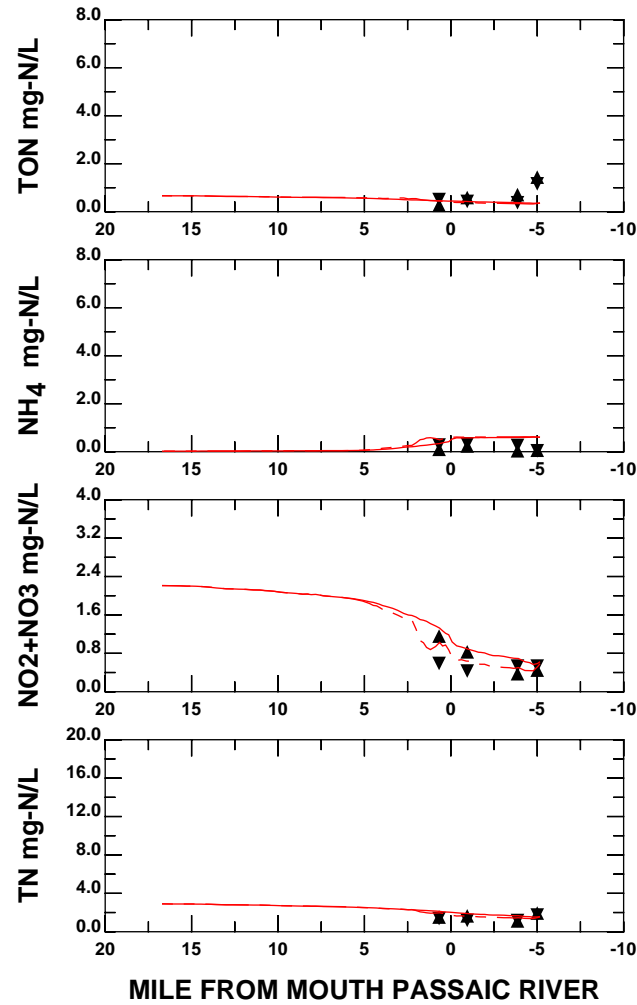




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Apr 03,2007

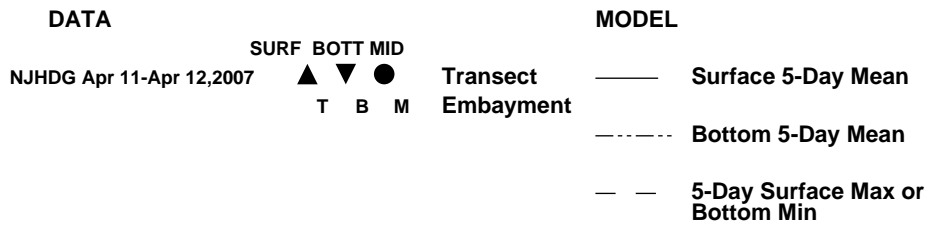
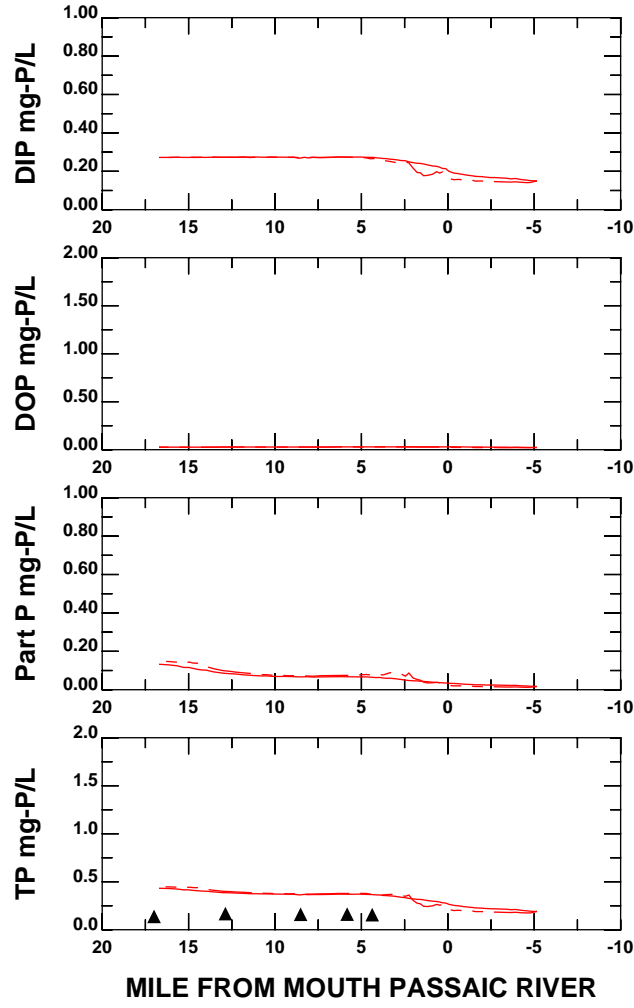
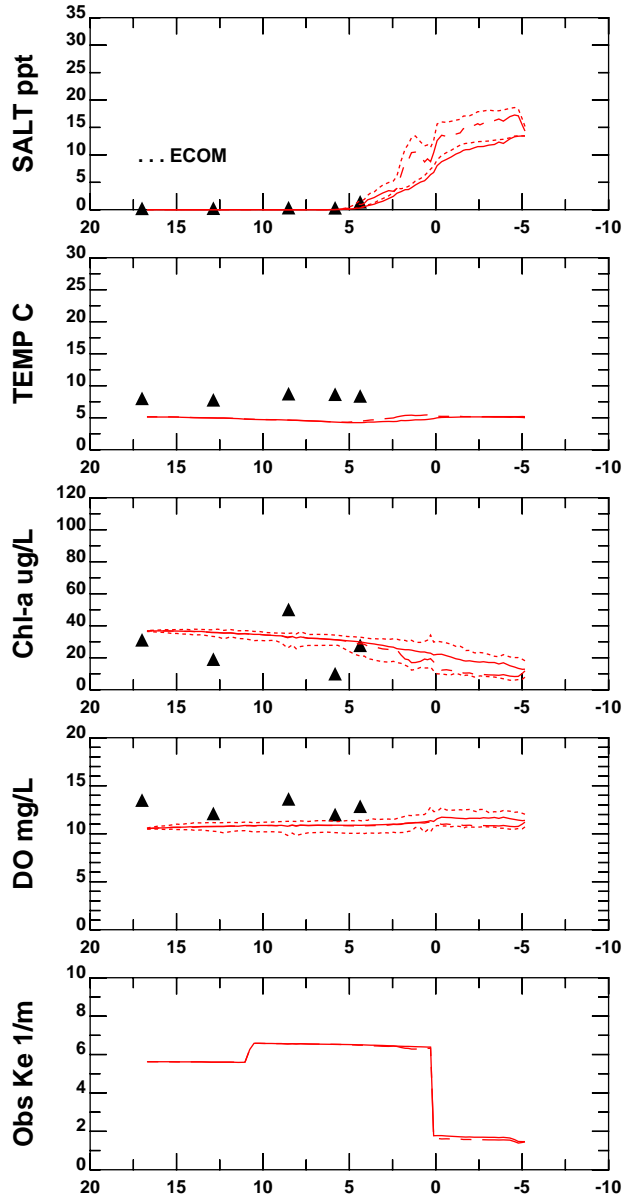
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

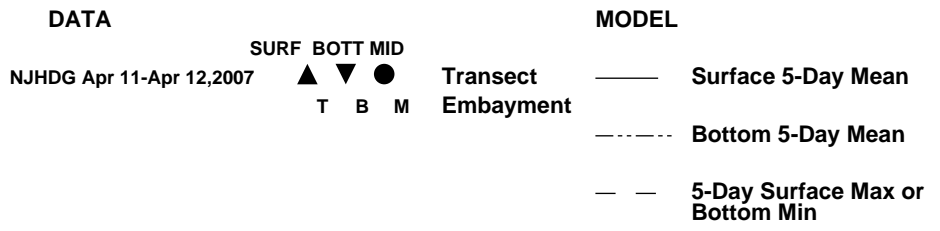
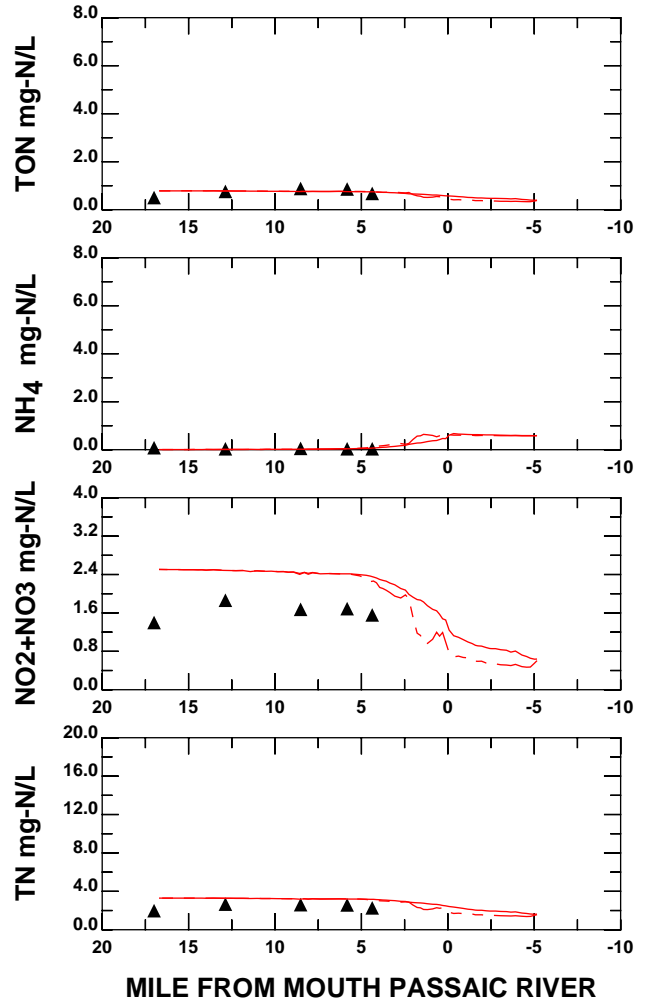
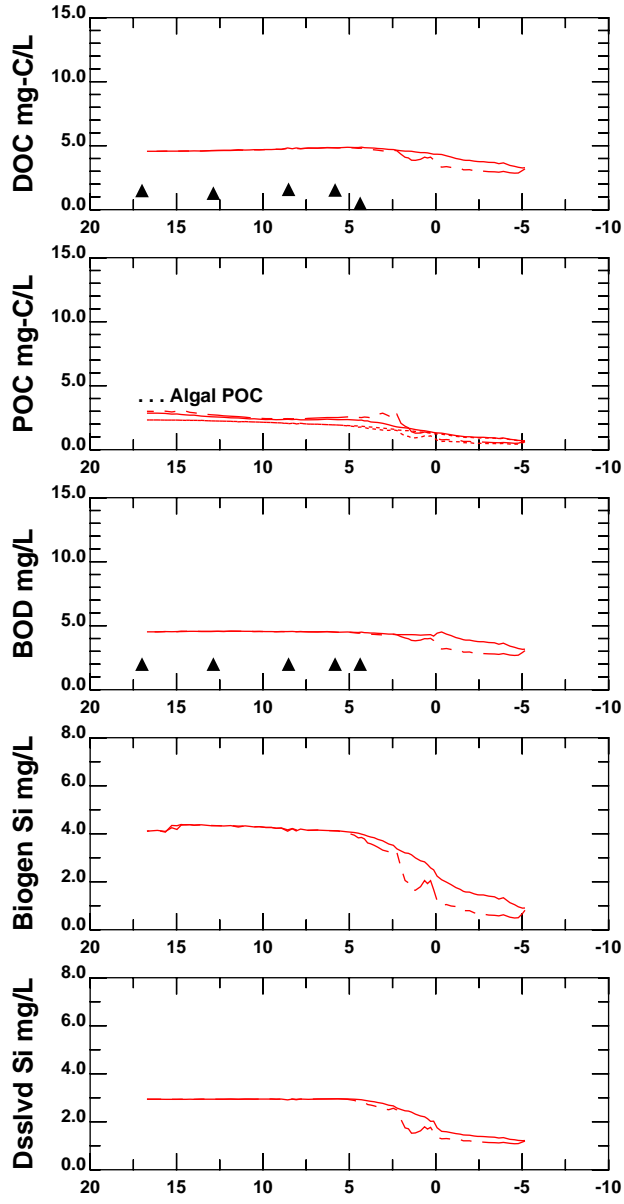
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min

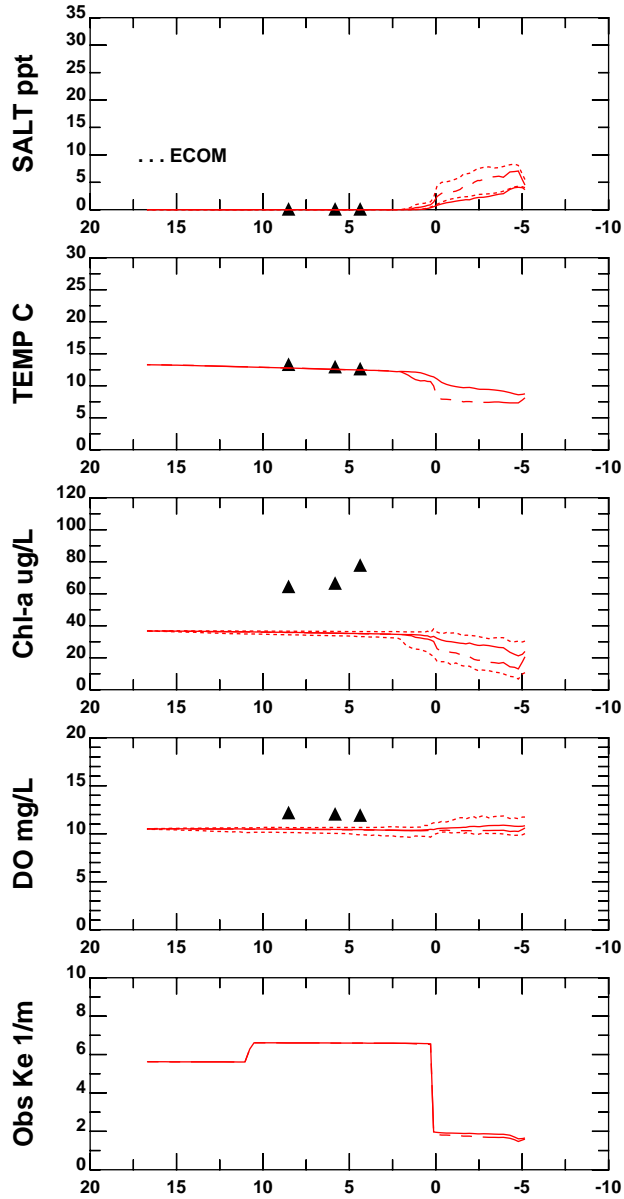


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607





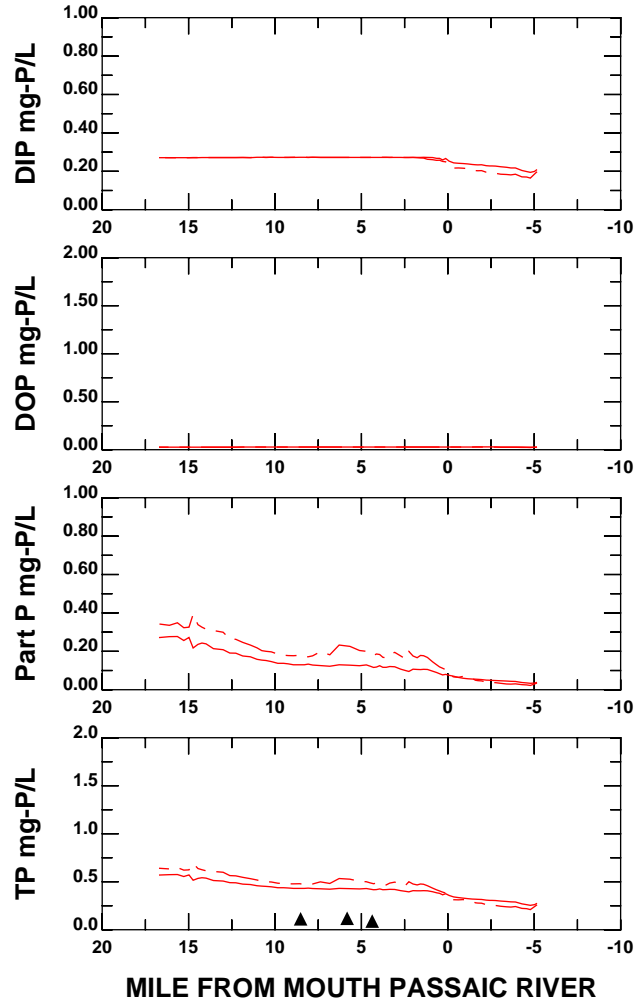
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

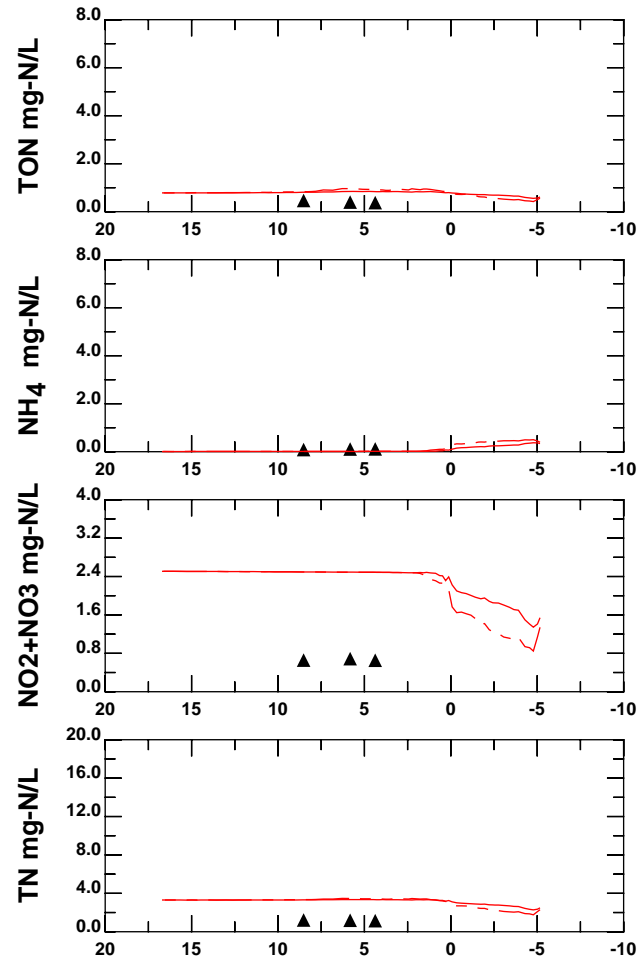
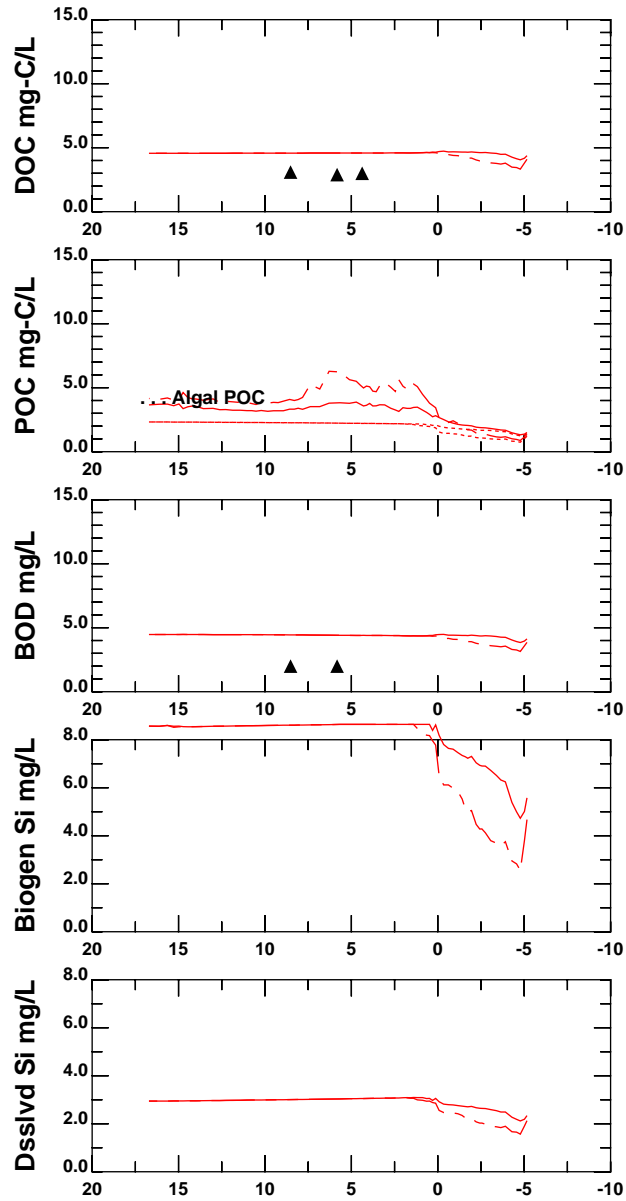
DATA  
NJHDG Apr 23,2007

SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min



**DATA**

NJHGD Apr 23,2007

SURF BOTT MID

▲ ▼ ●  
T B M

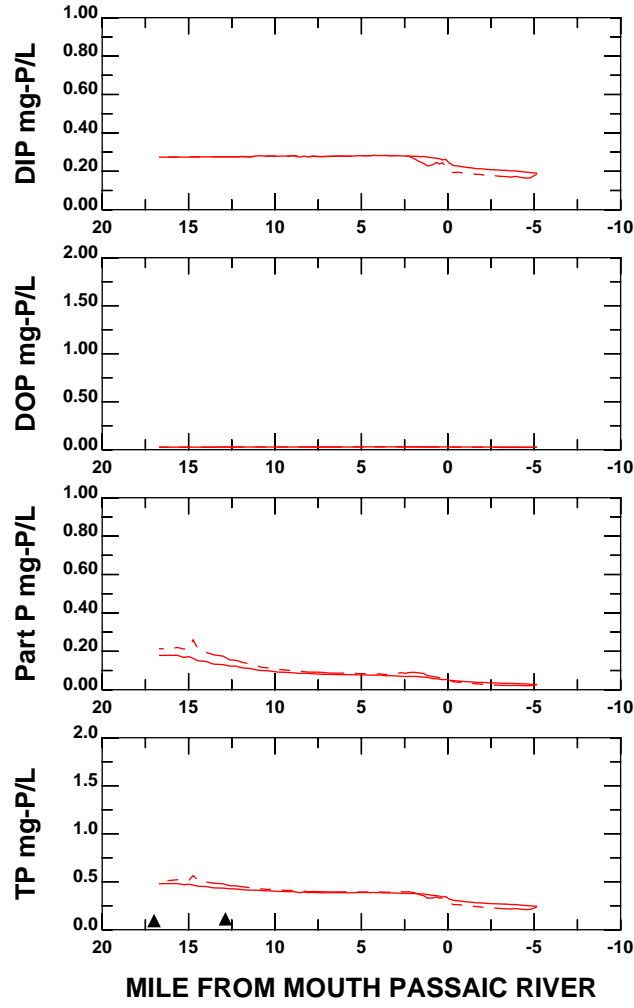
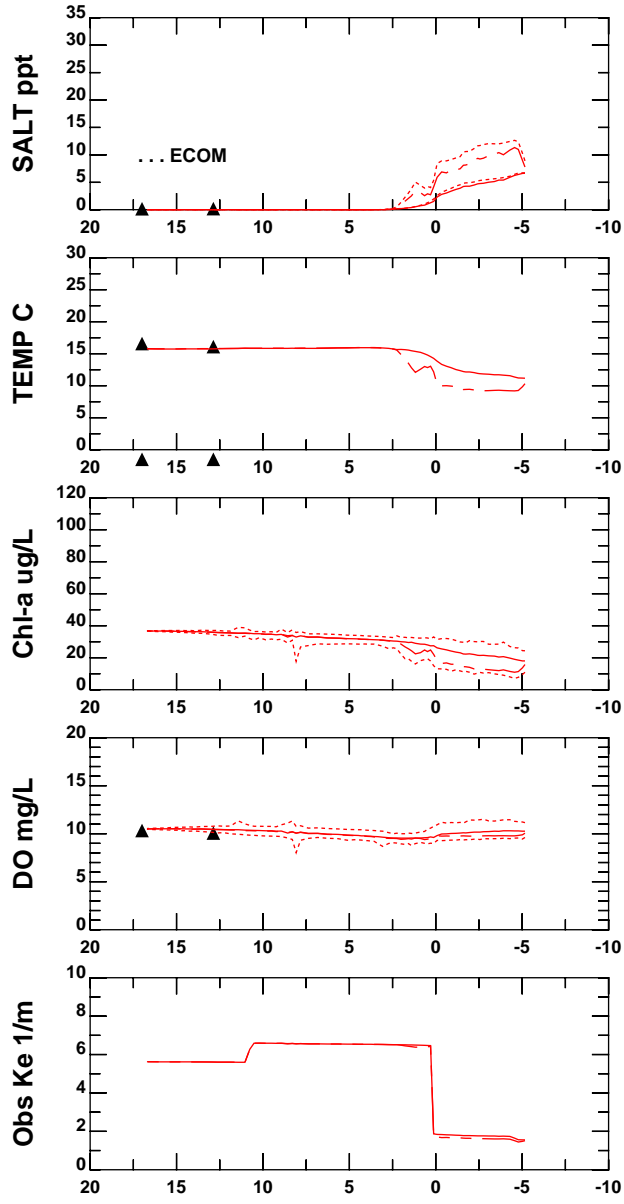
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0607



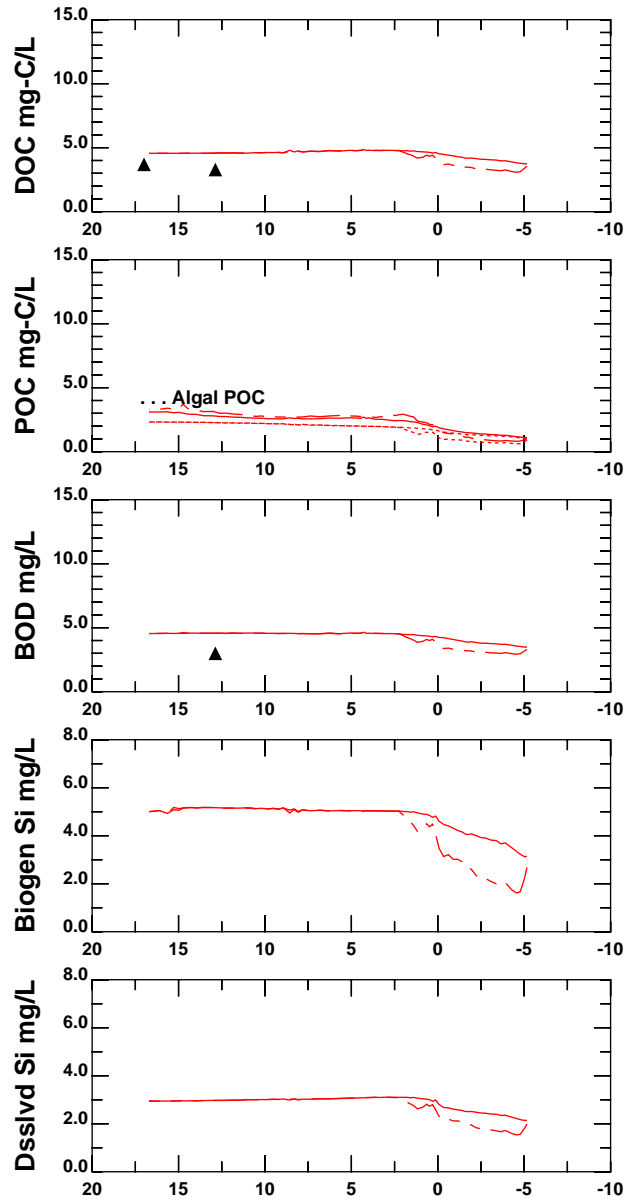
**DATA**  
NJHDG Apr 25,2007

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

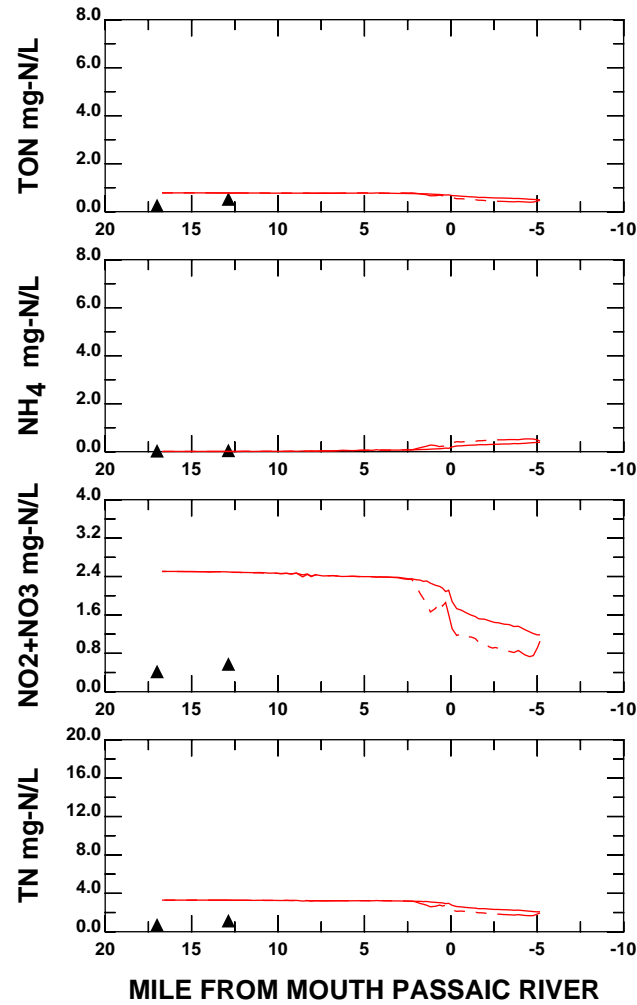
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Apr 25,2007

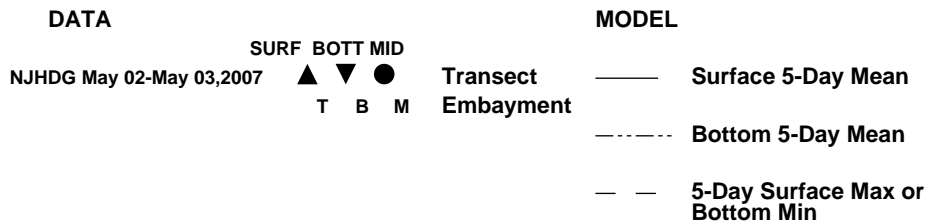
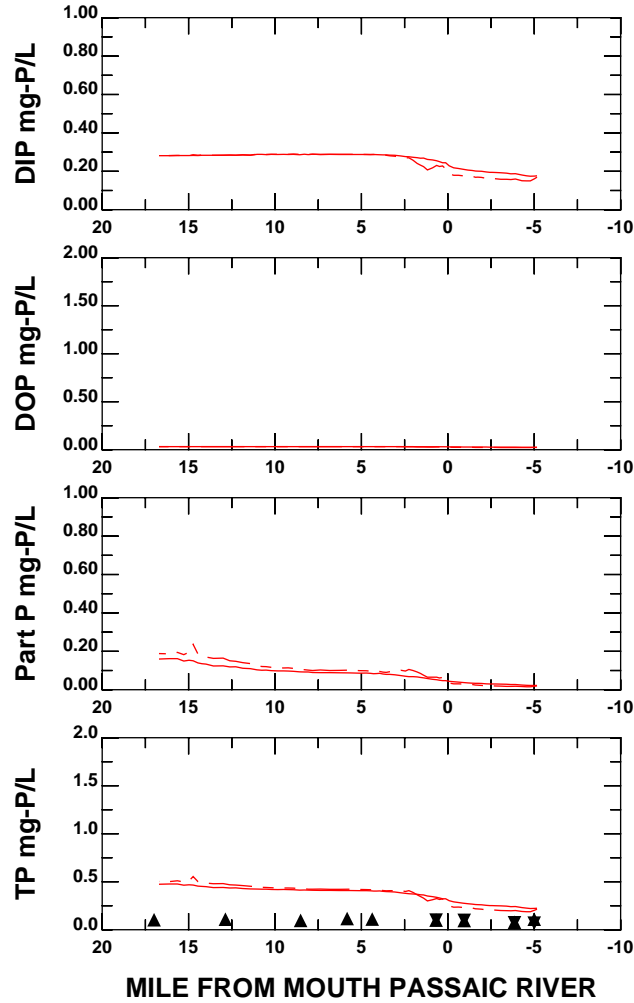
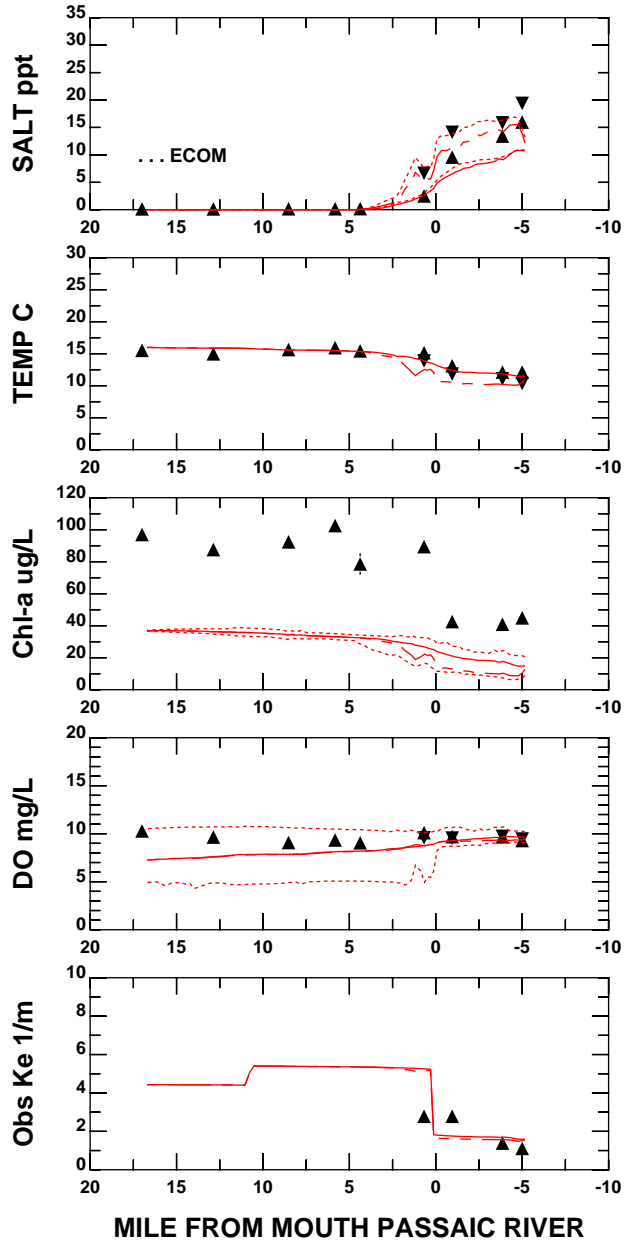
SURF BOTT MID

▲ ▼ ●  
T B M

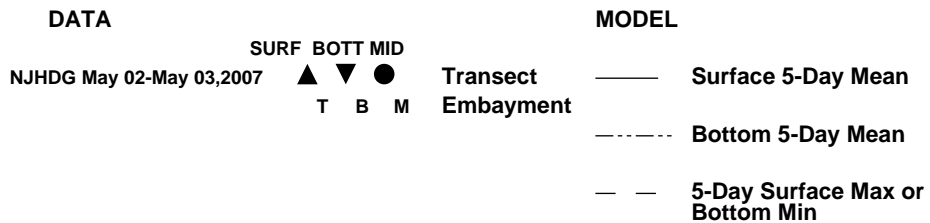
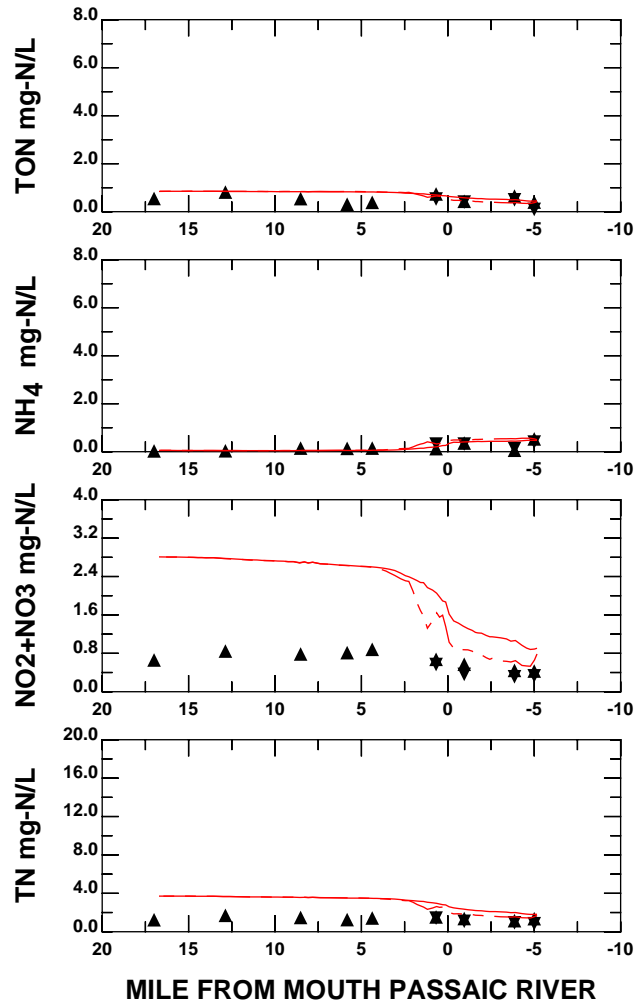
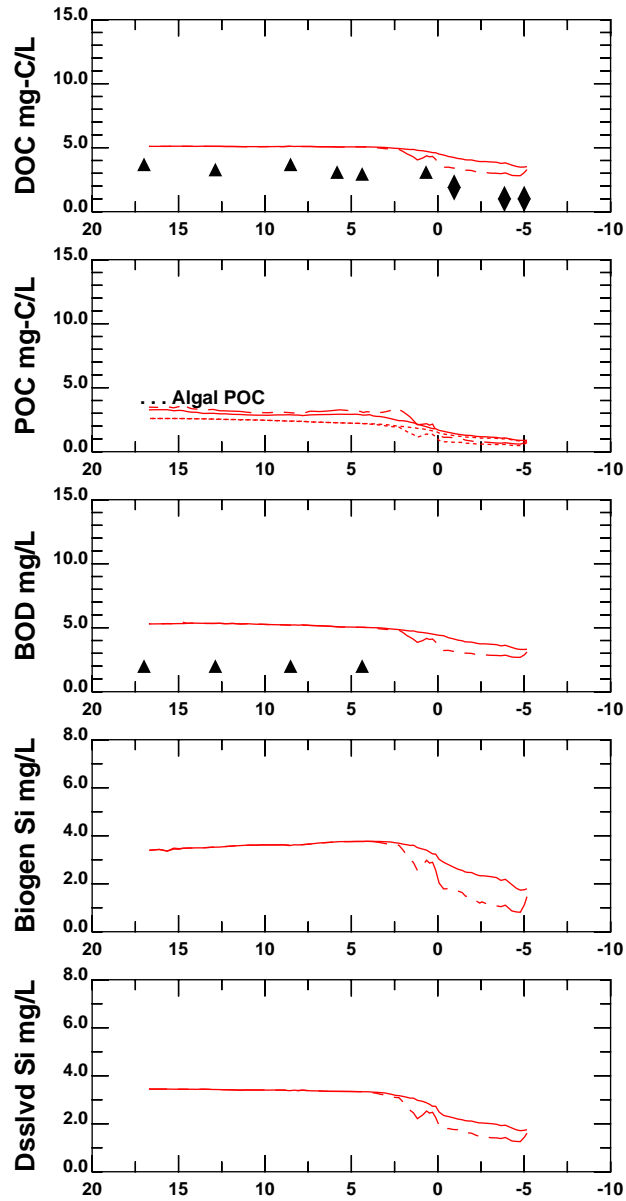
Transect  
Embayment

#### MODEL

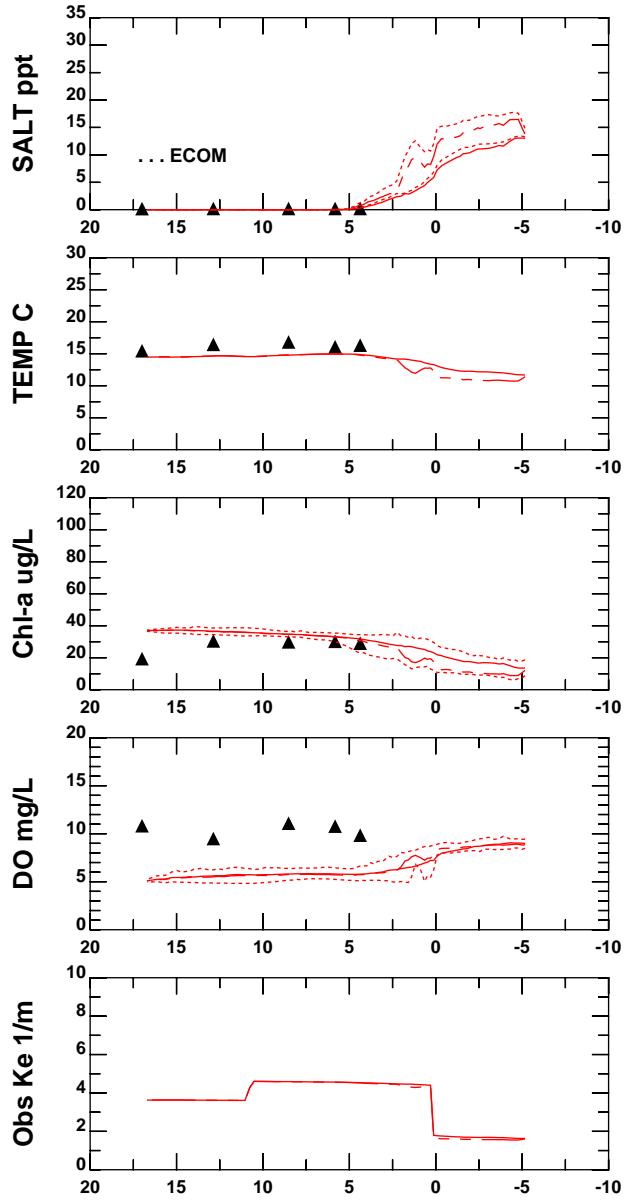
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



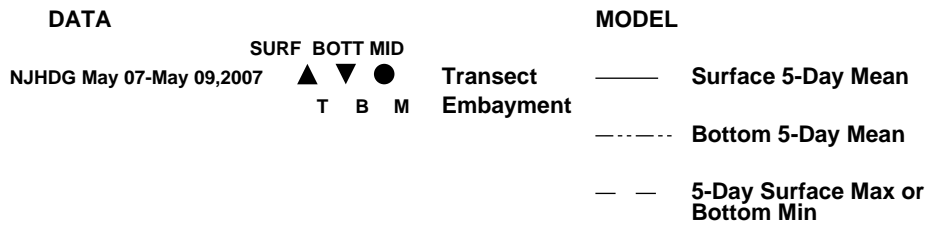
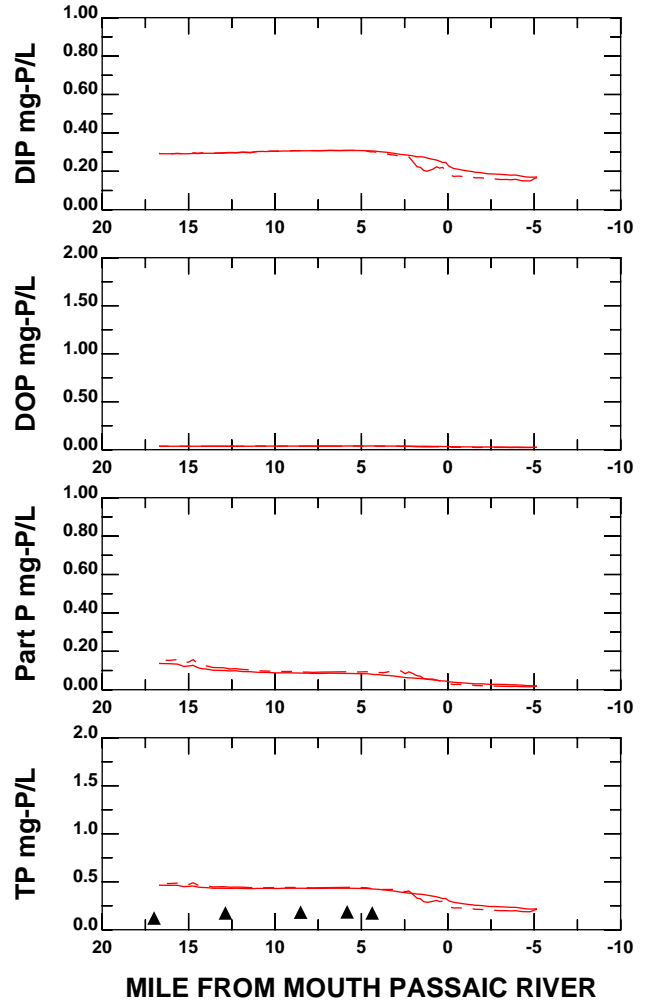
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



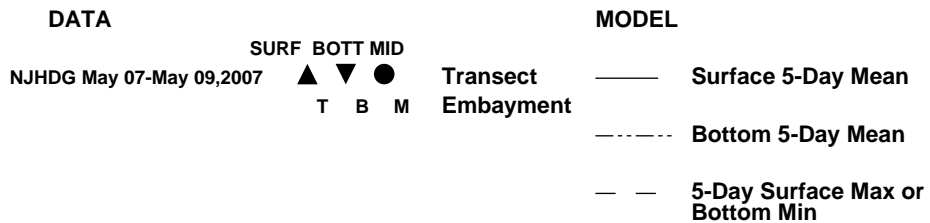
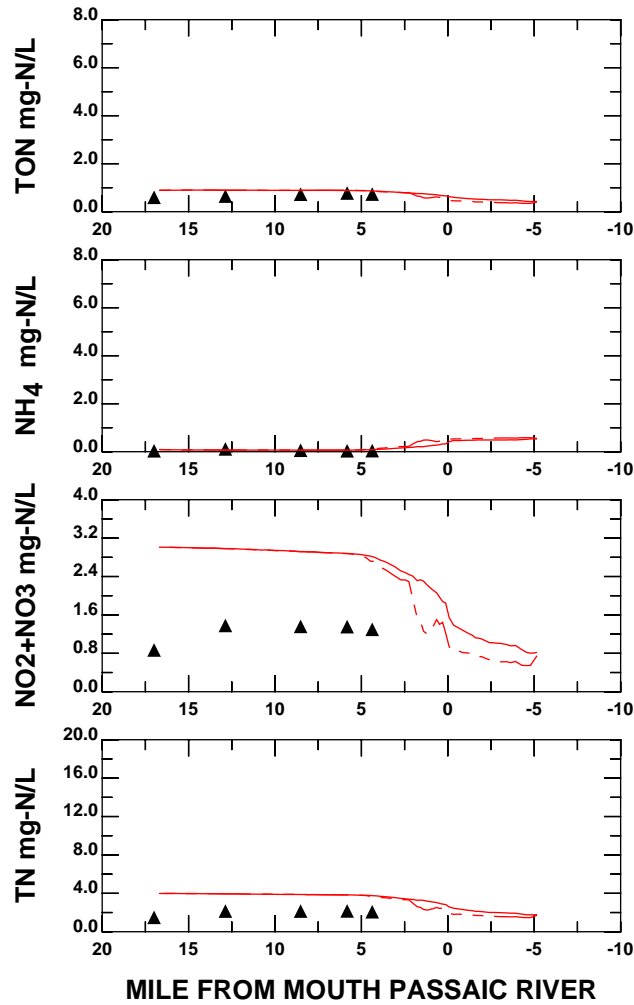
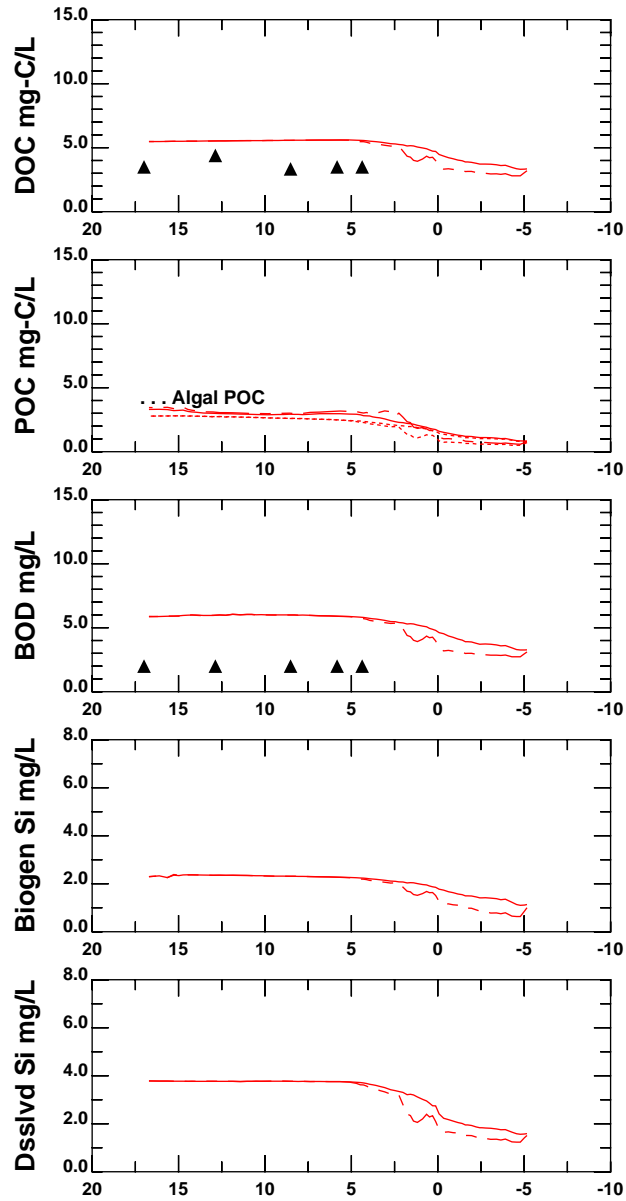
MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

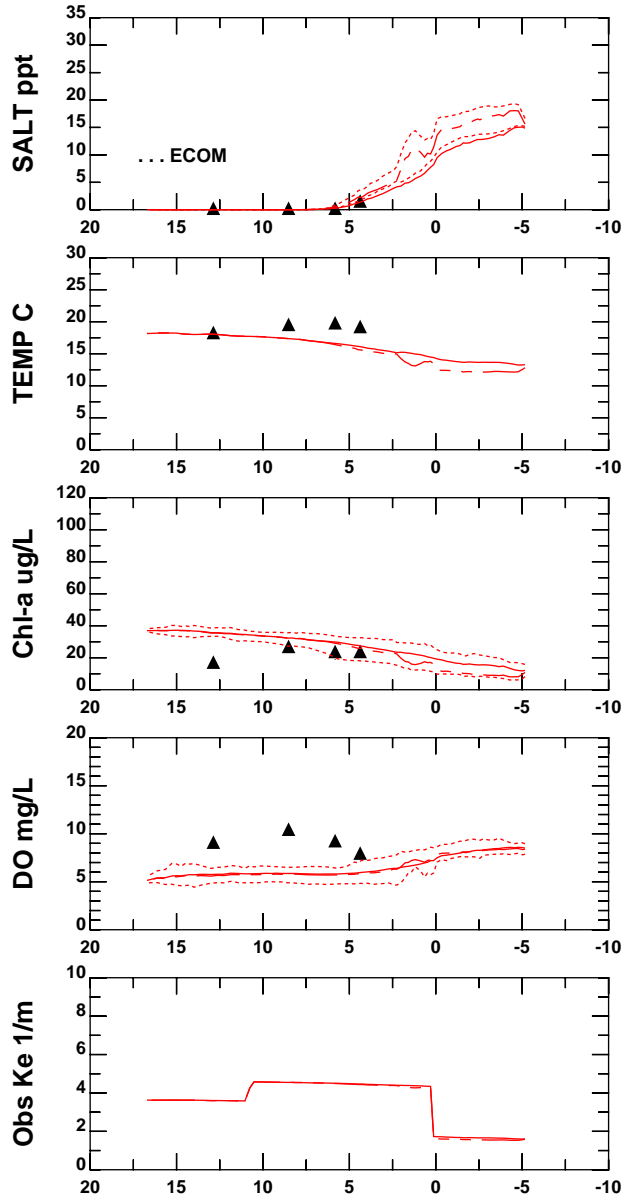
RED=model:Collapsed Grid 0607





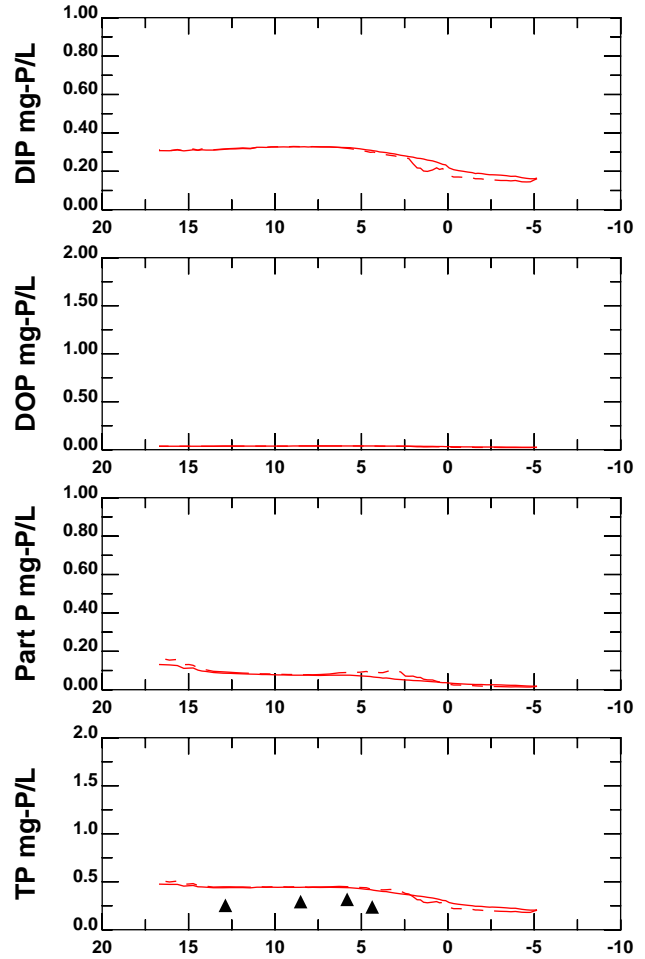


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

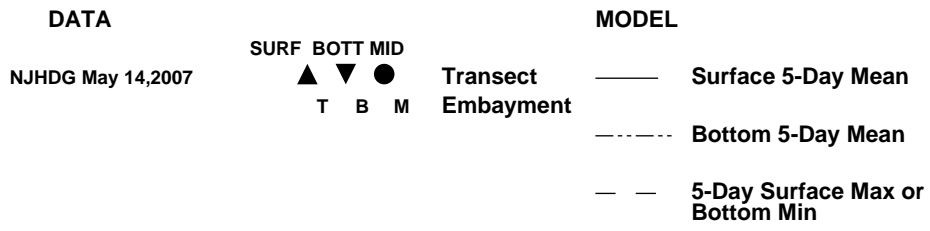


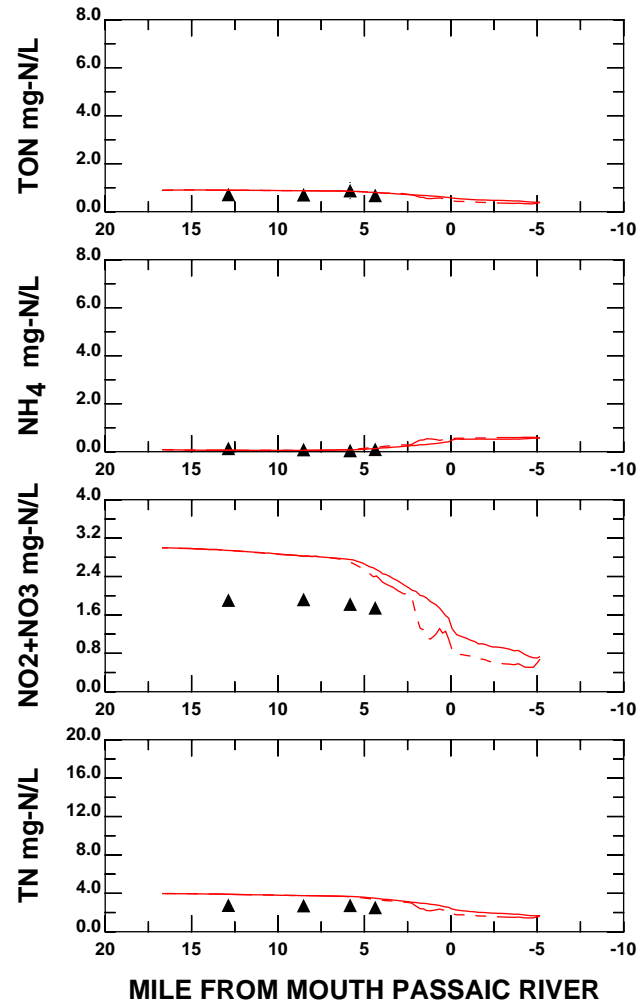
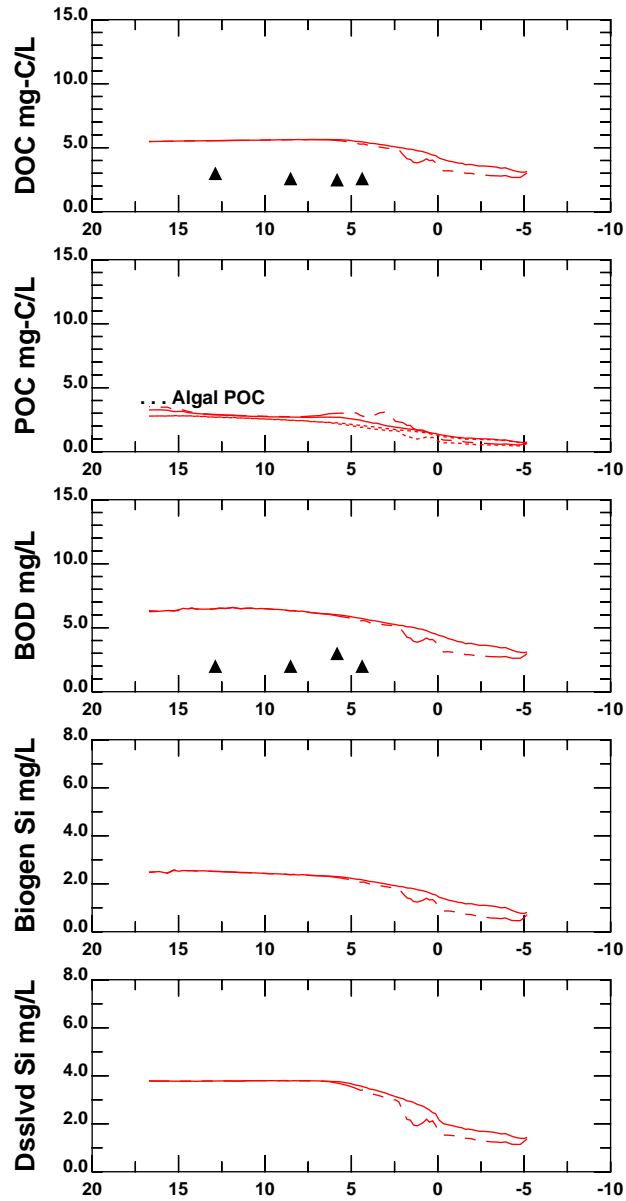
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

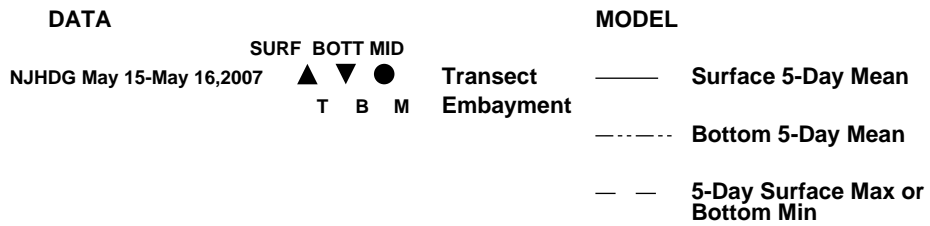
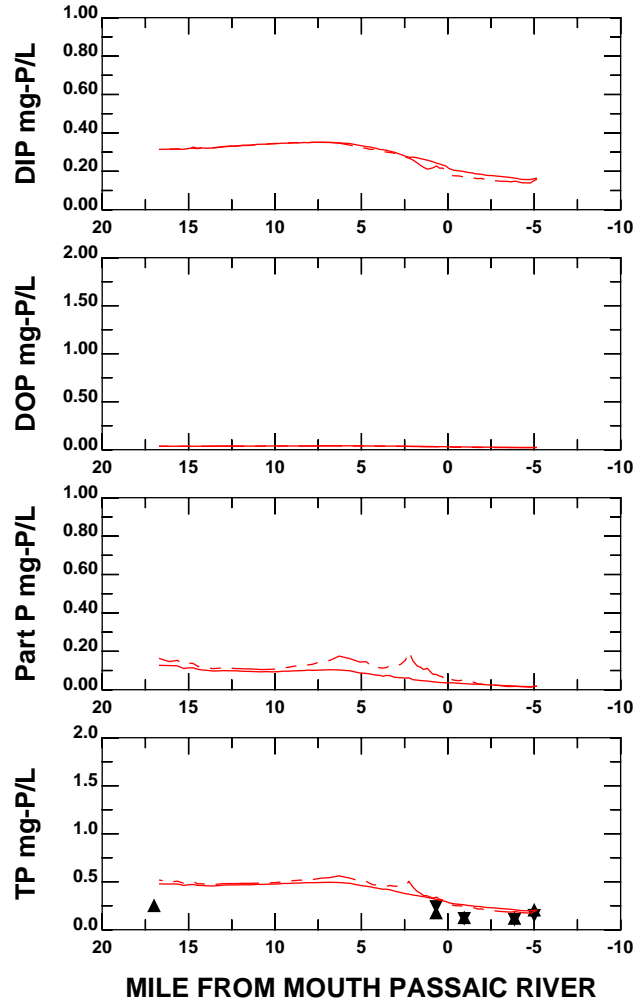
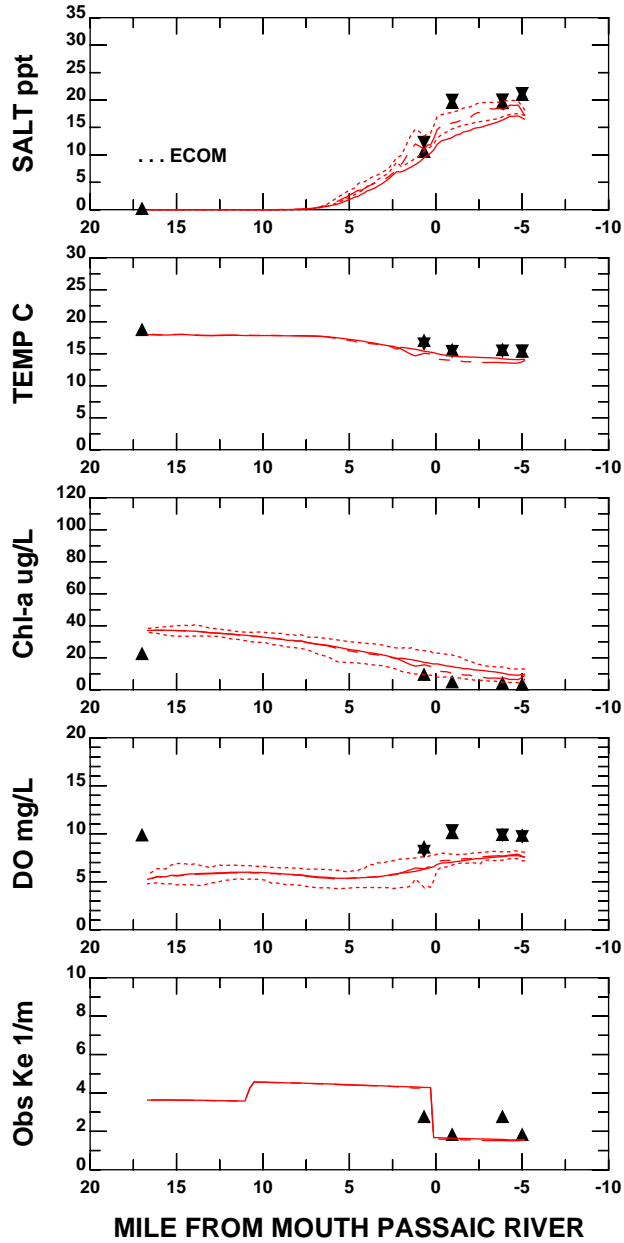


MILE FROM MOUTH PASSAIC RIVER

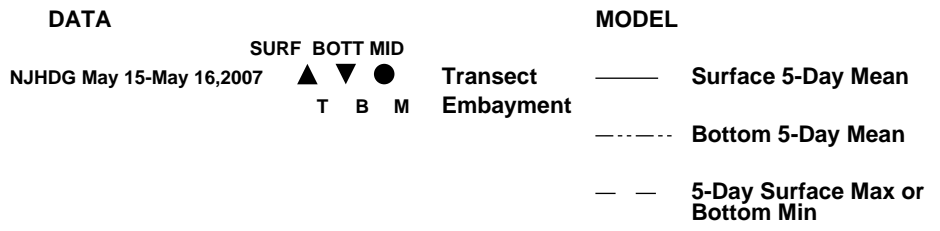
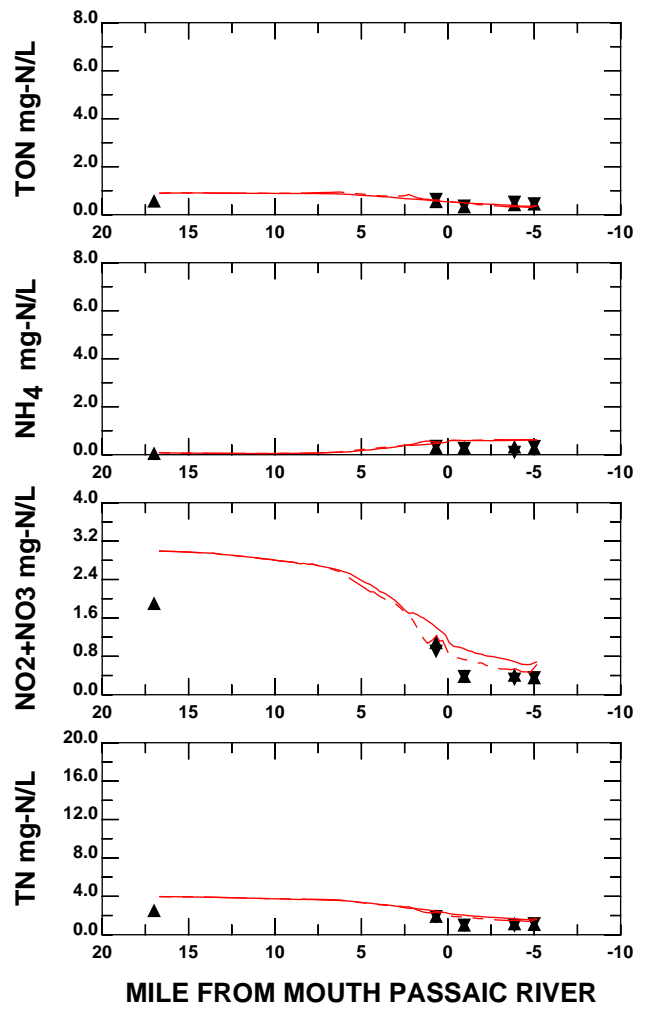
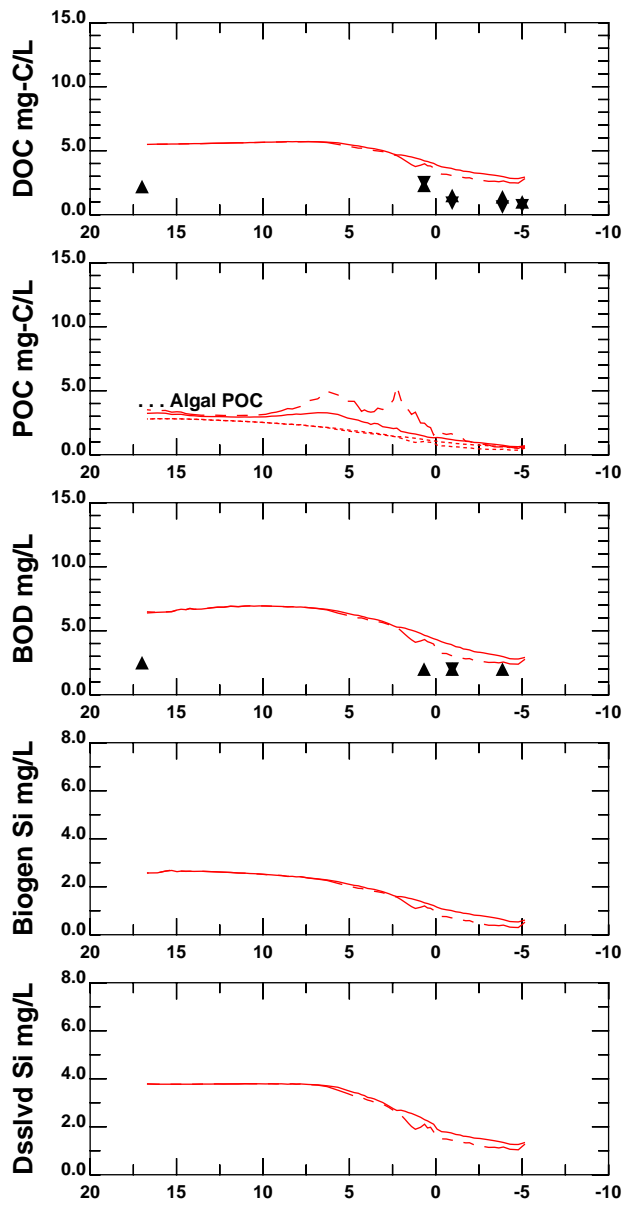




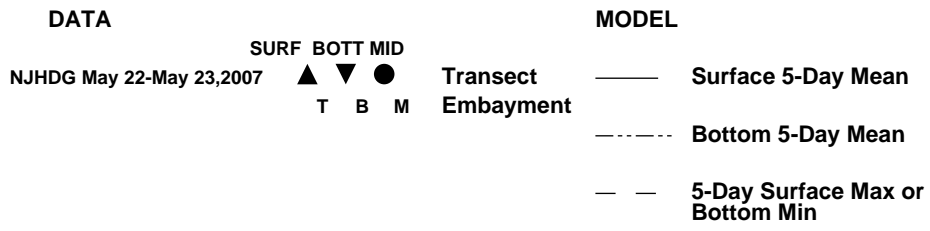
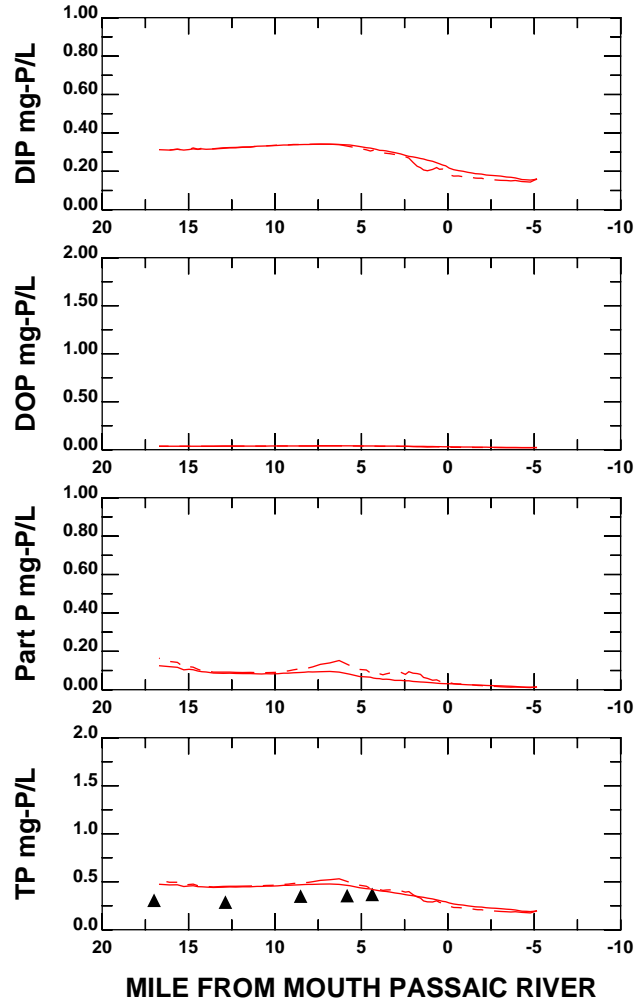
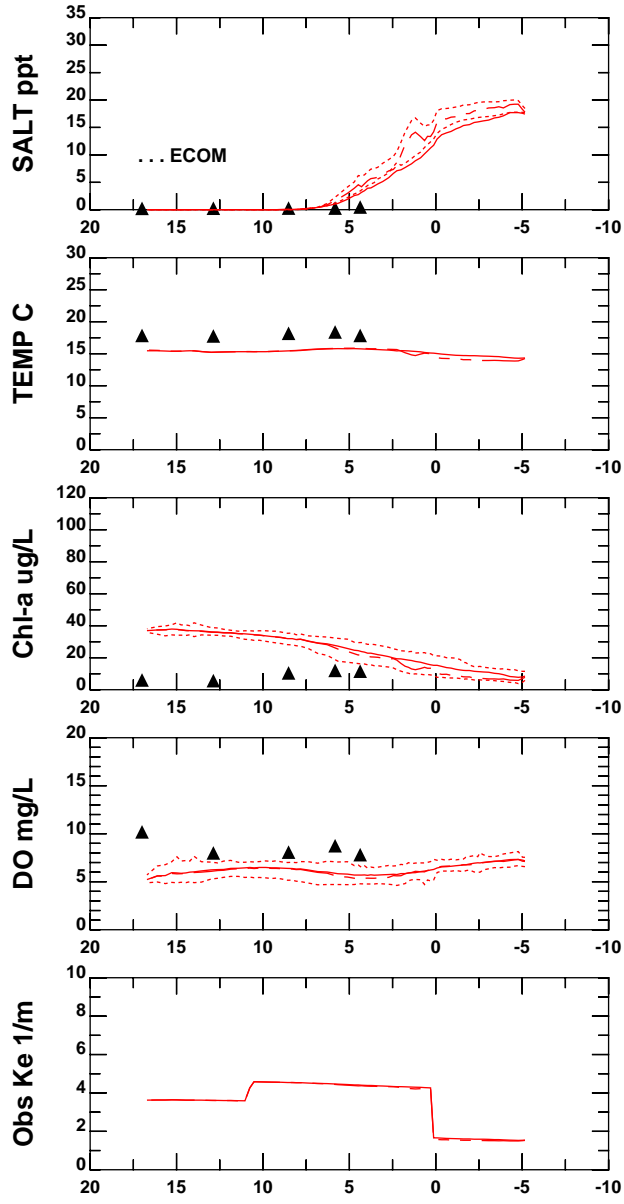
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



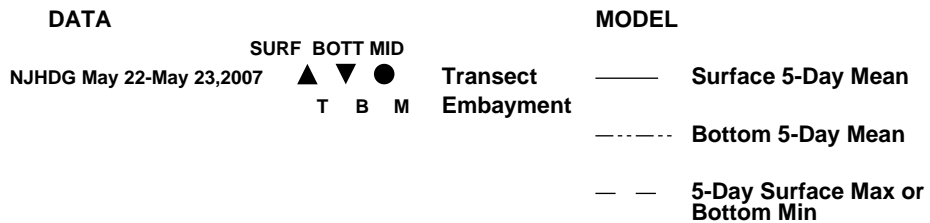
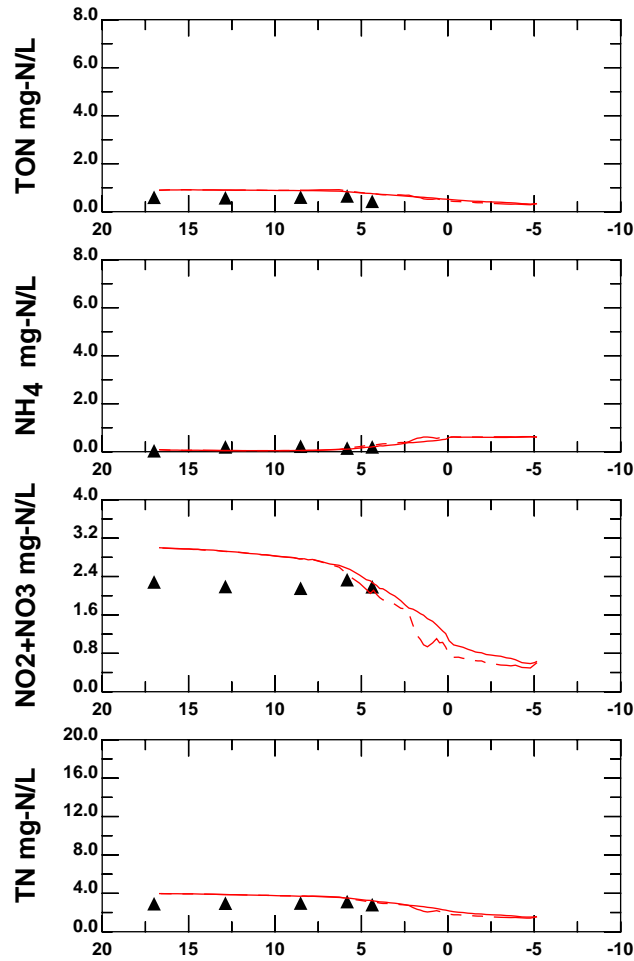
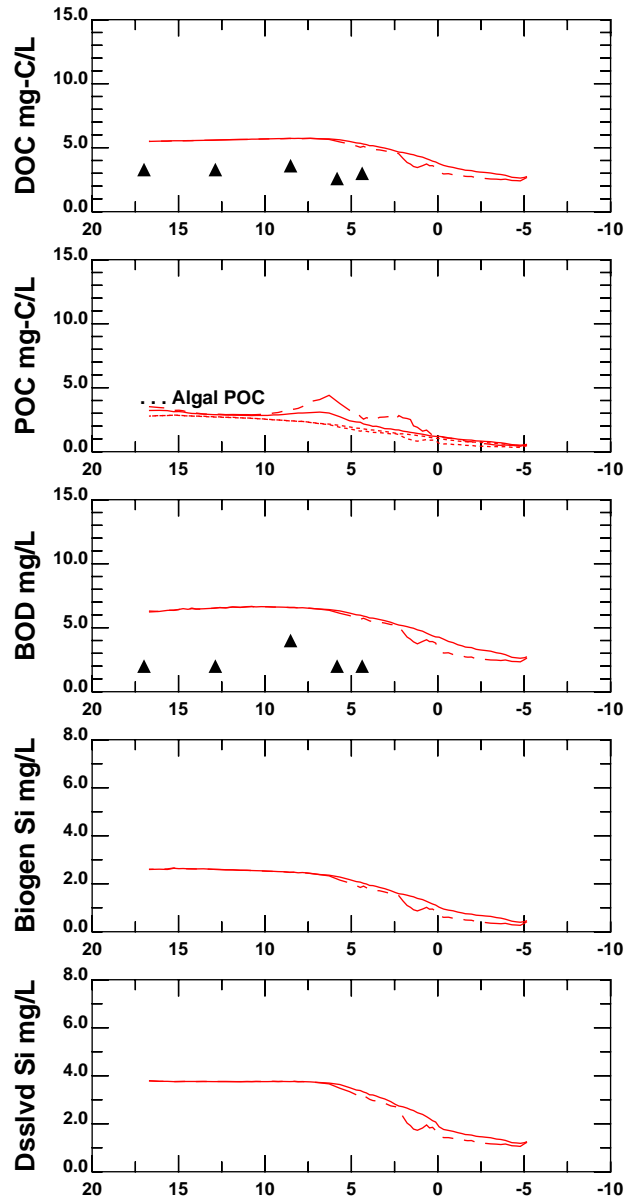
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



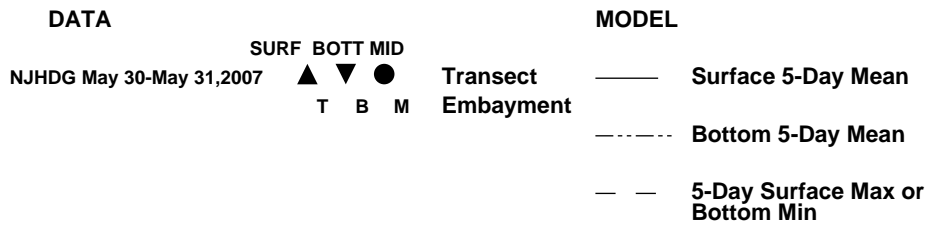
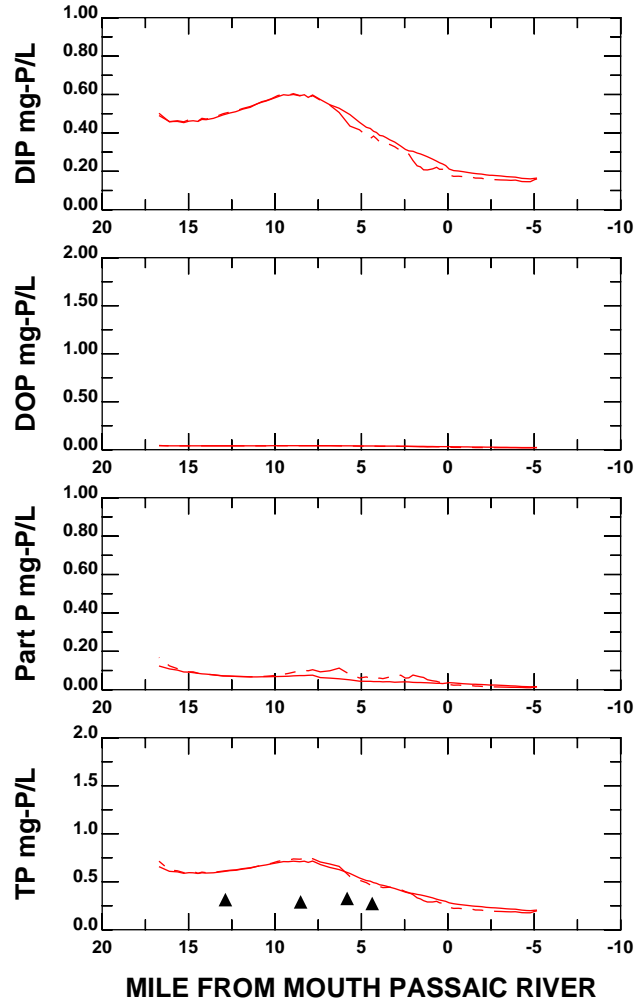
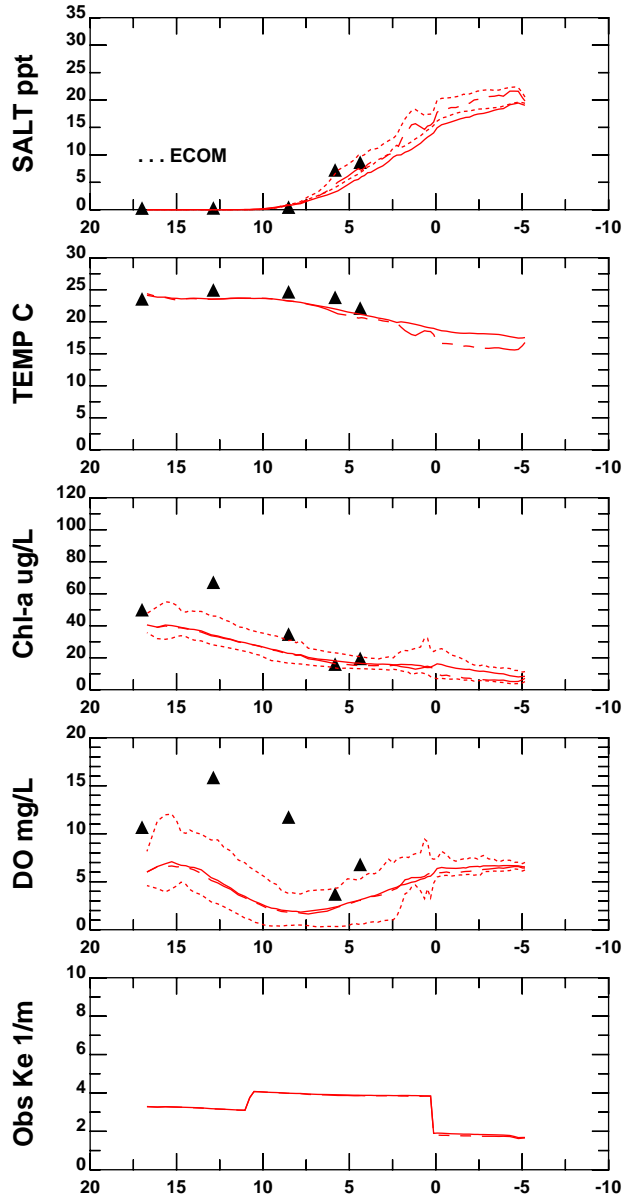
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

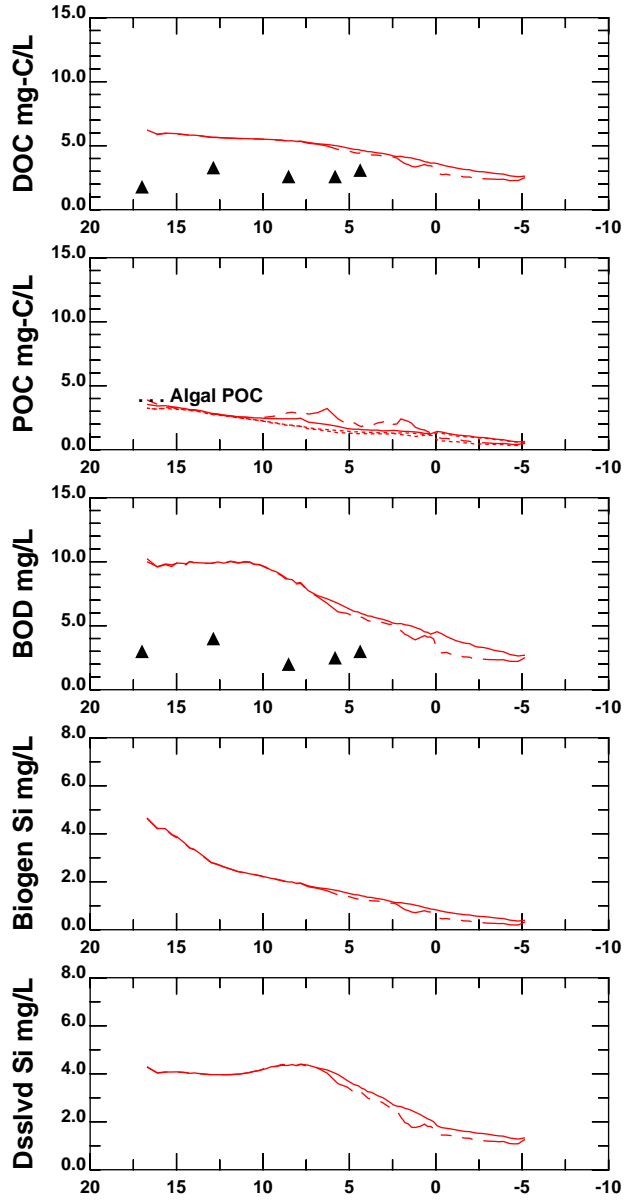


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

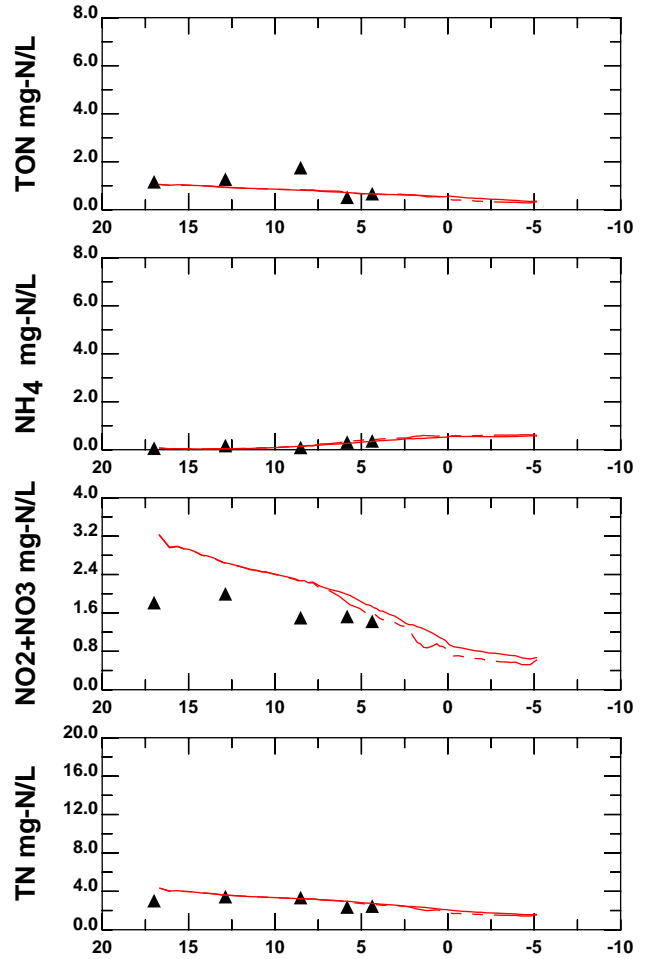


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

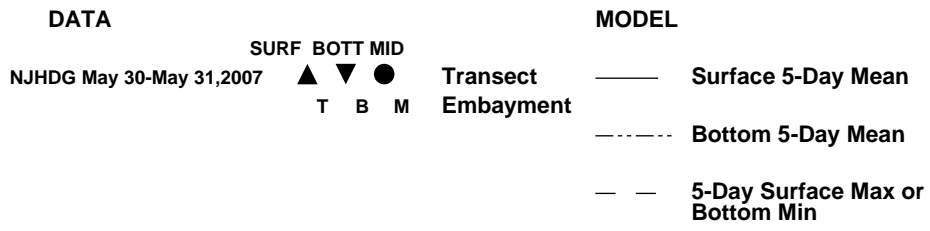




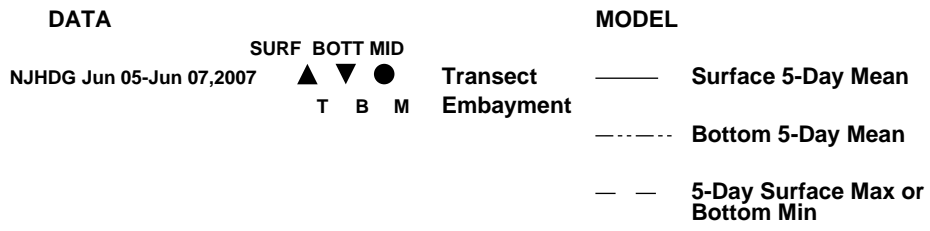
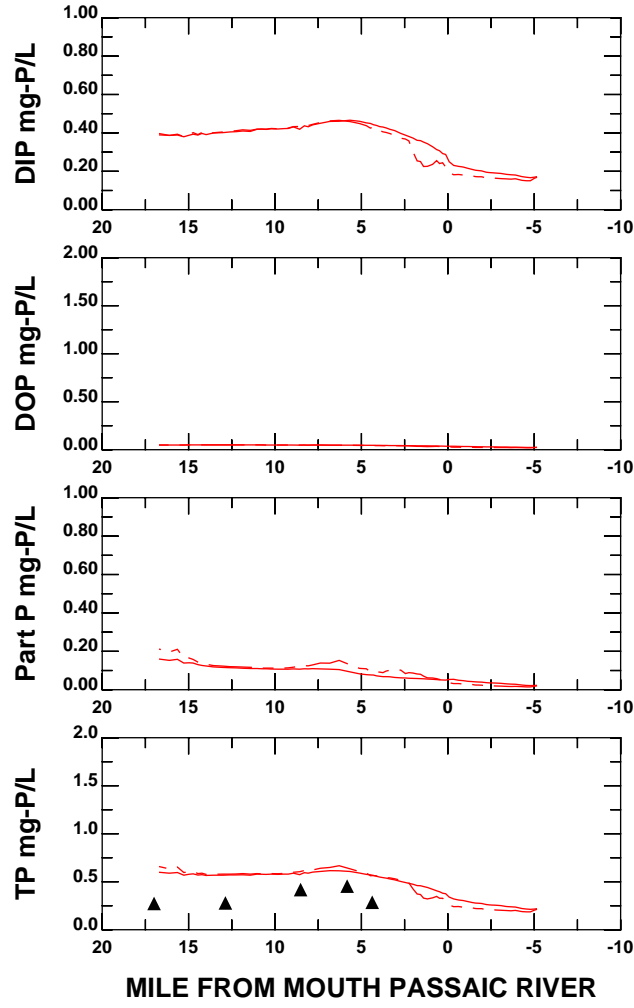
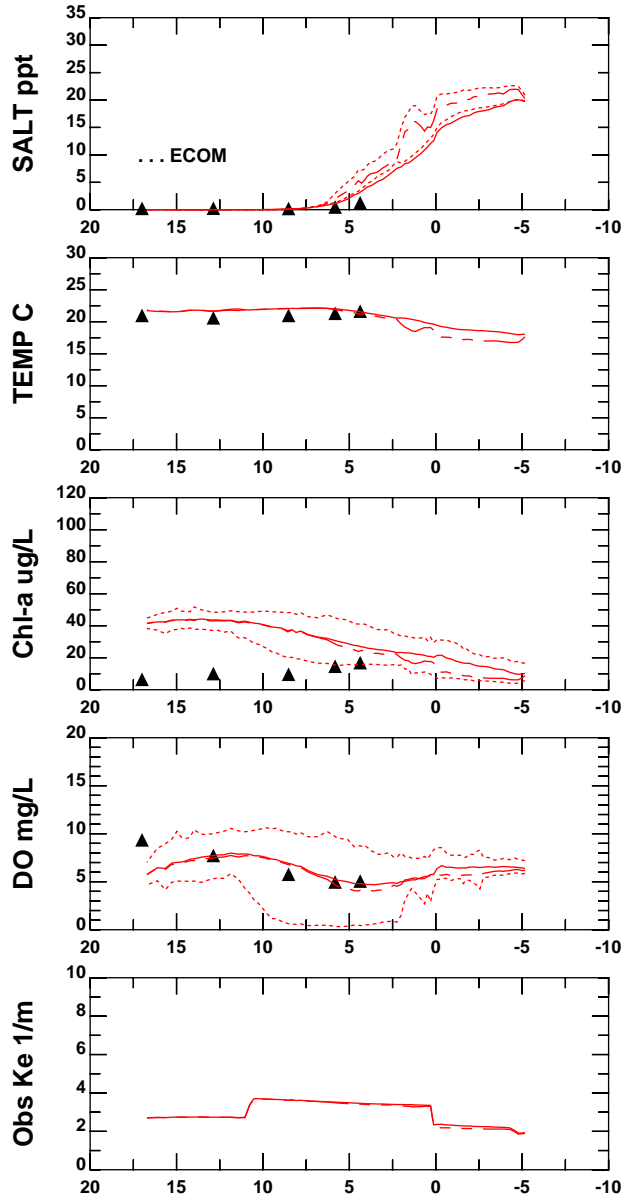
MILE FROM MOUTH PASSAIC RIVER



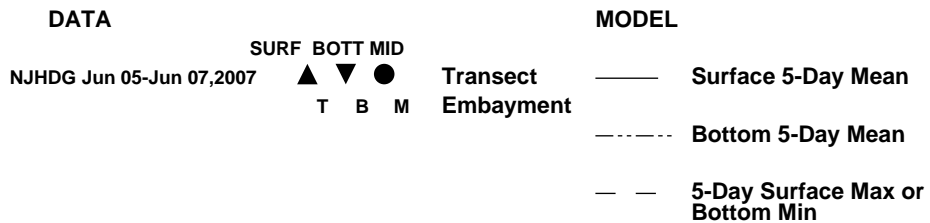
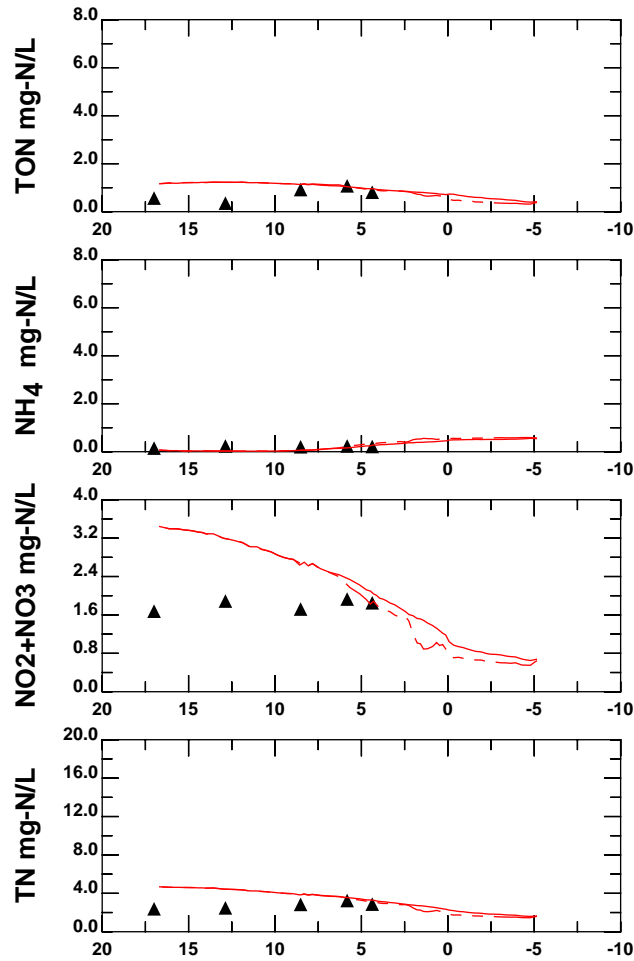
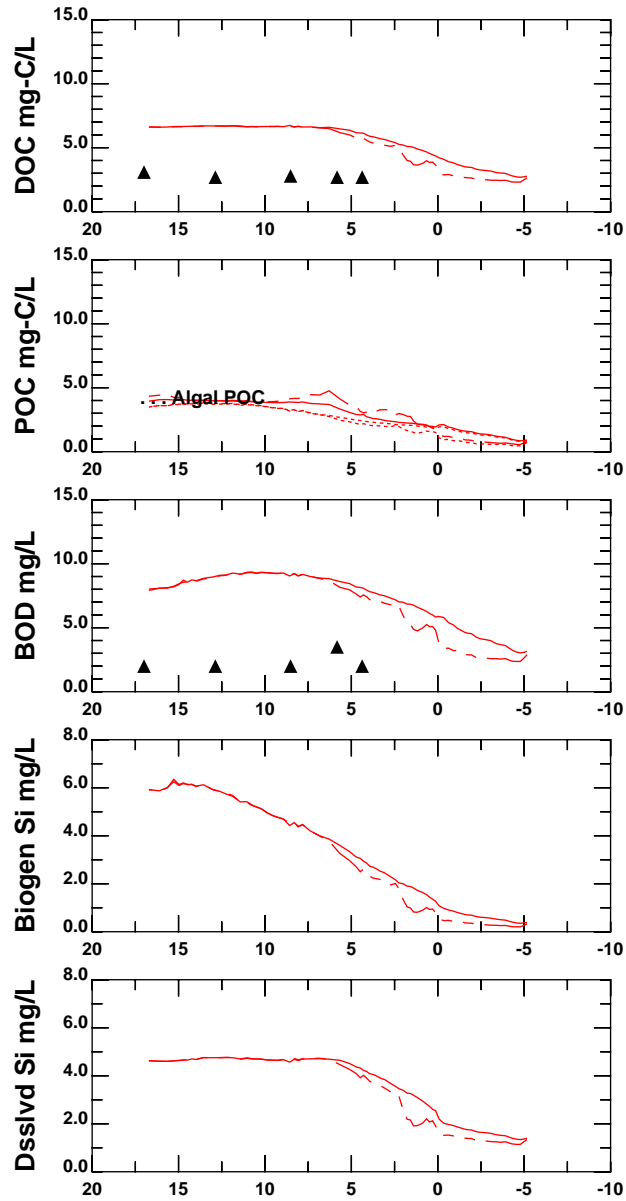
MILE FROM MOUTH PASSAIC RIVER



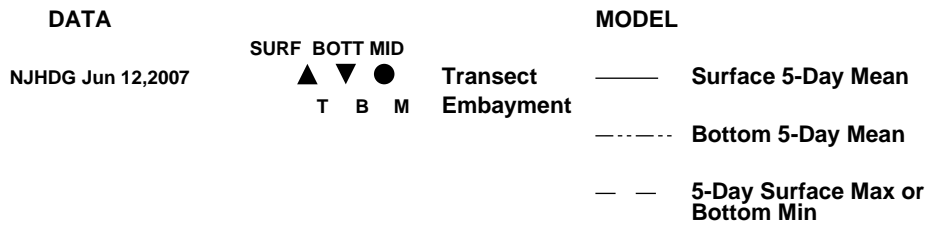
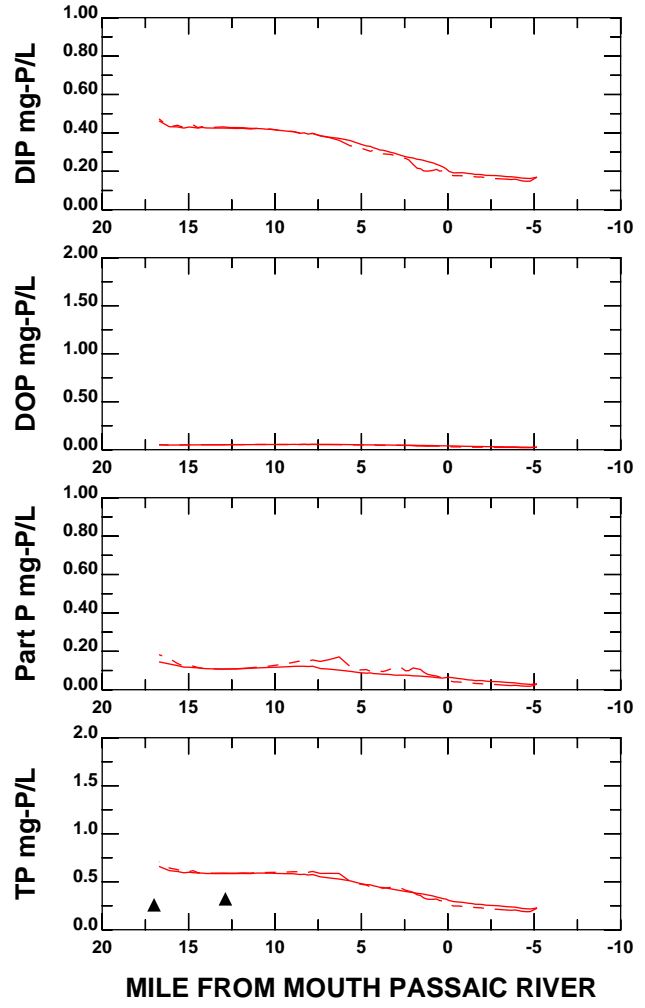
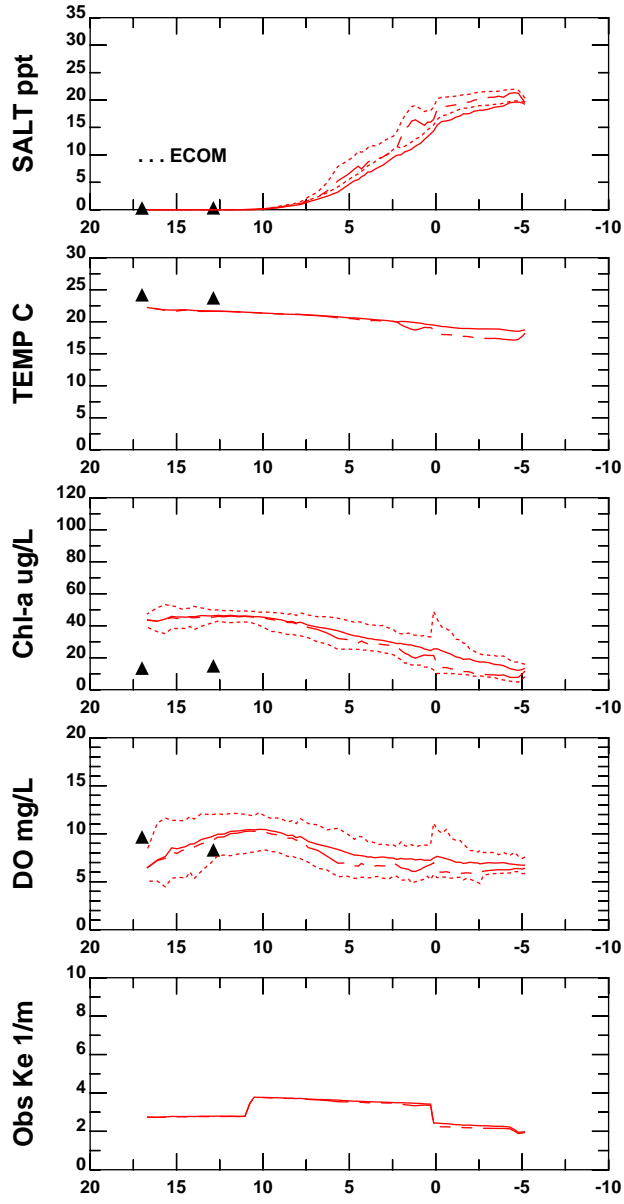
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



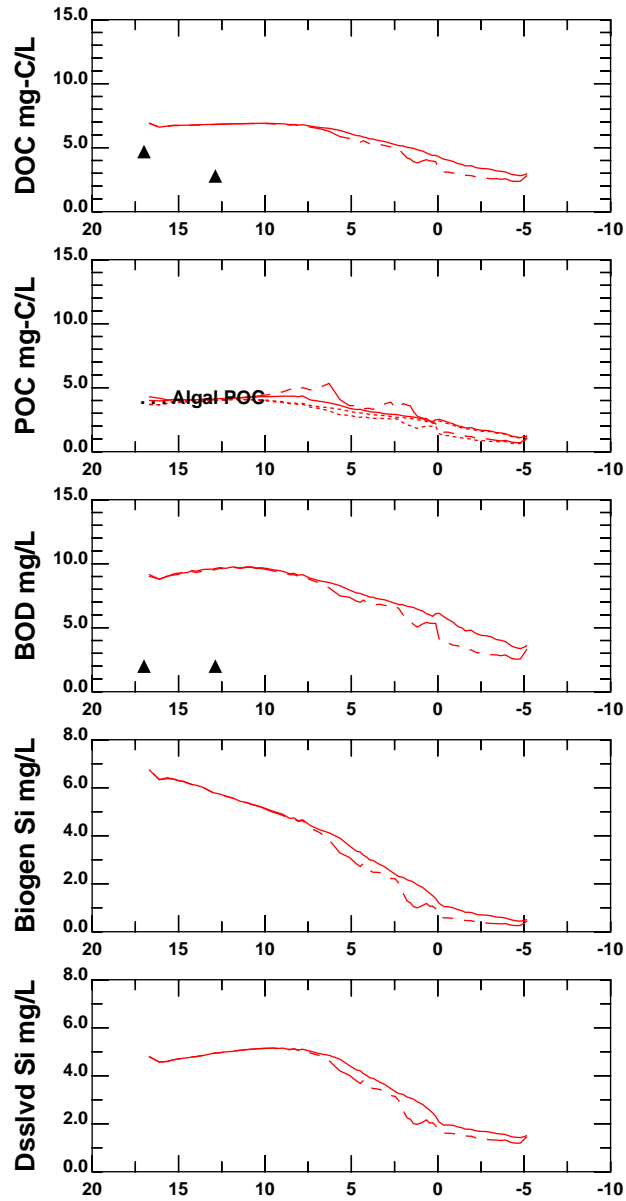
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



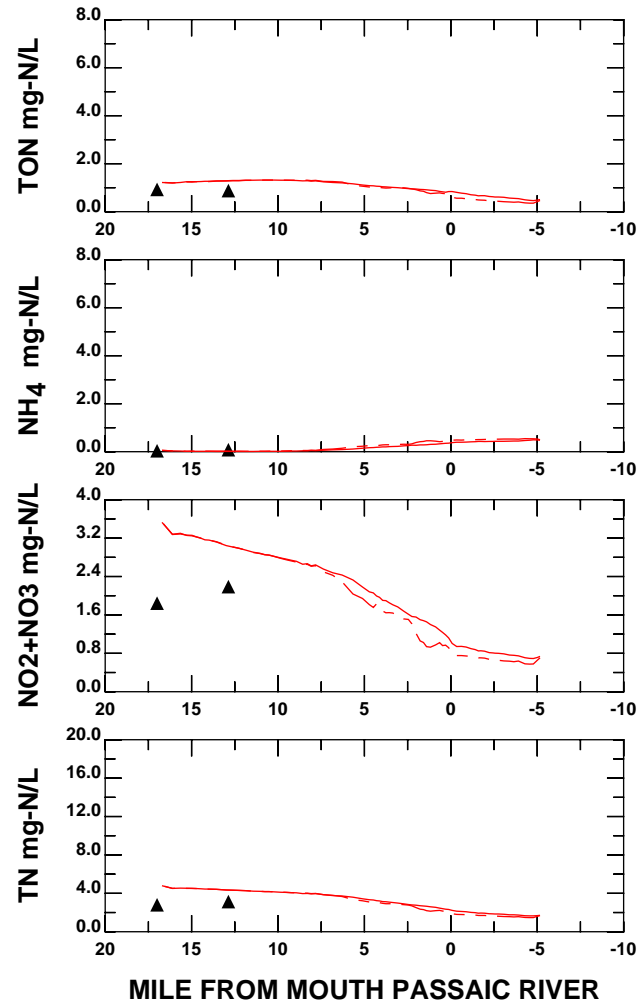
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

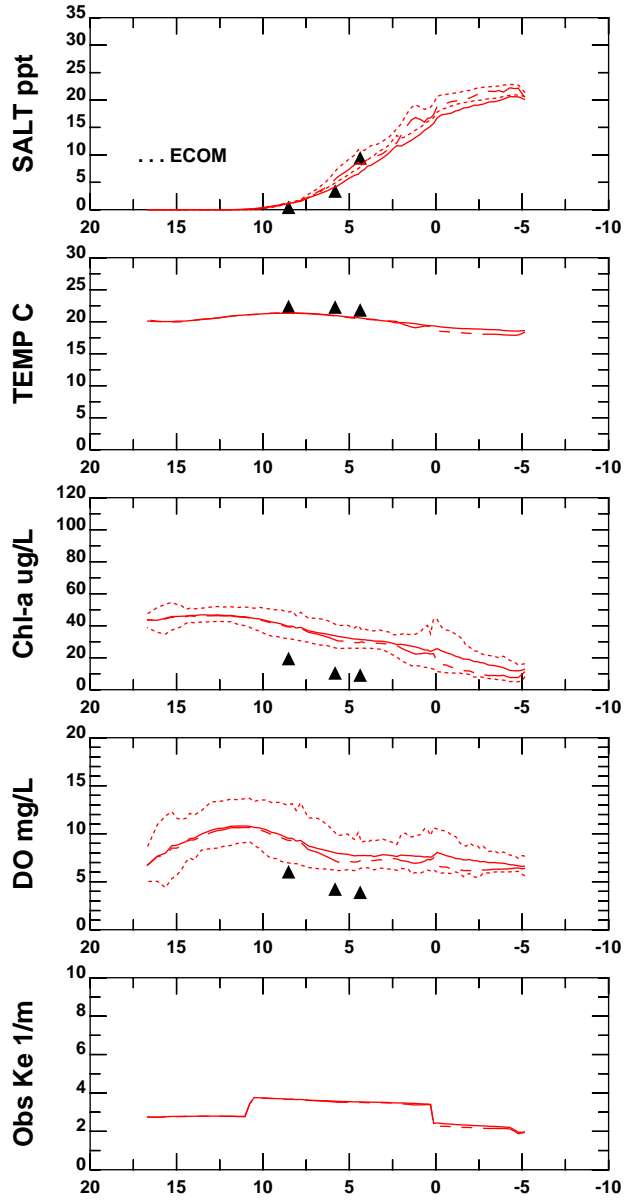


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jun 12,2007

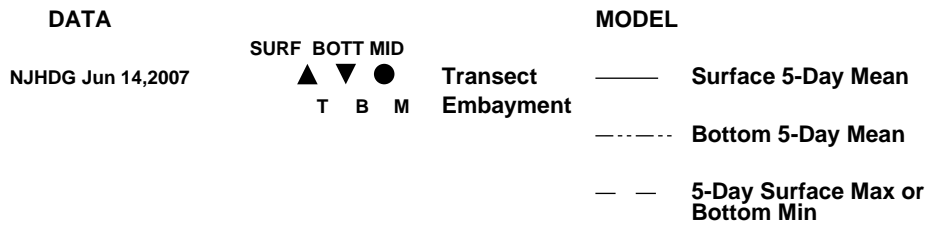
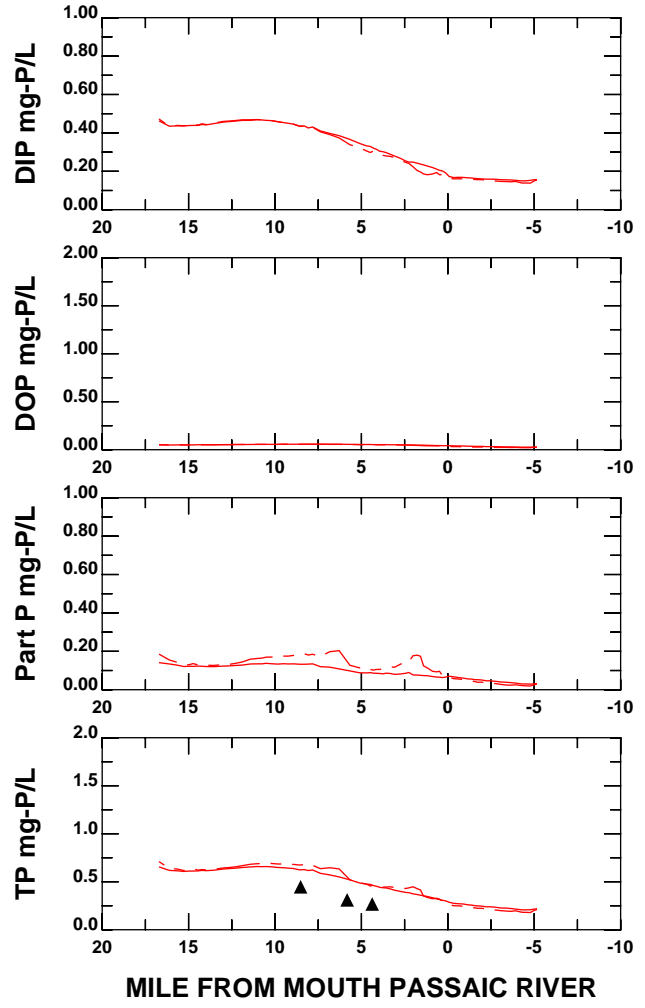
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

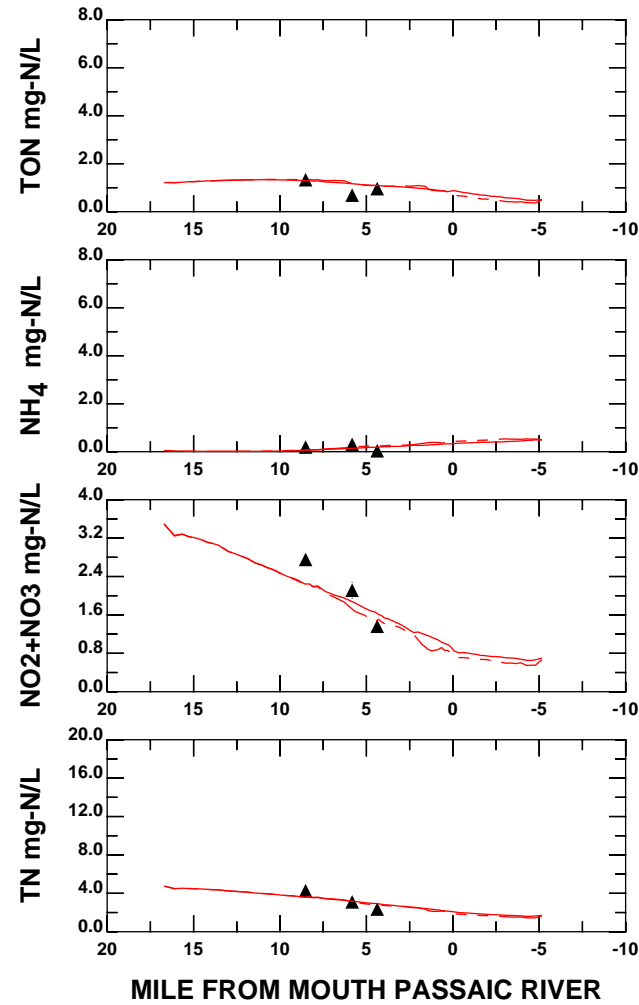
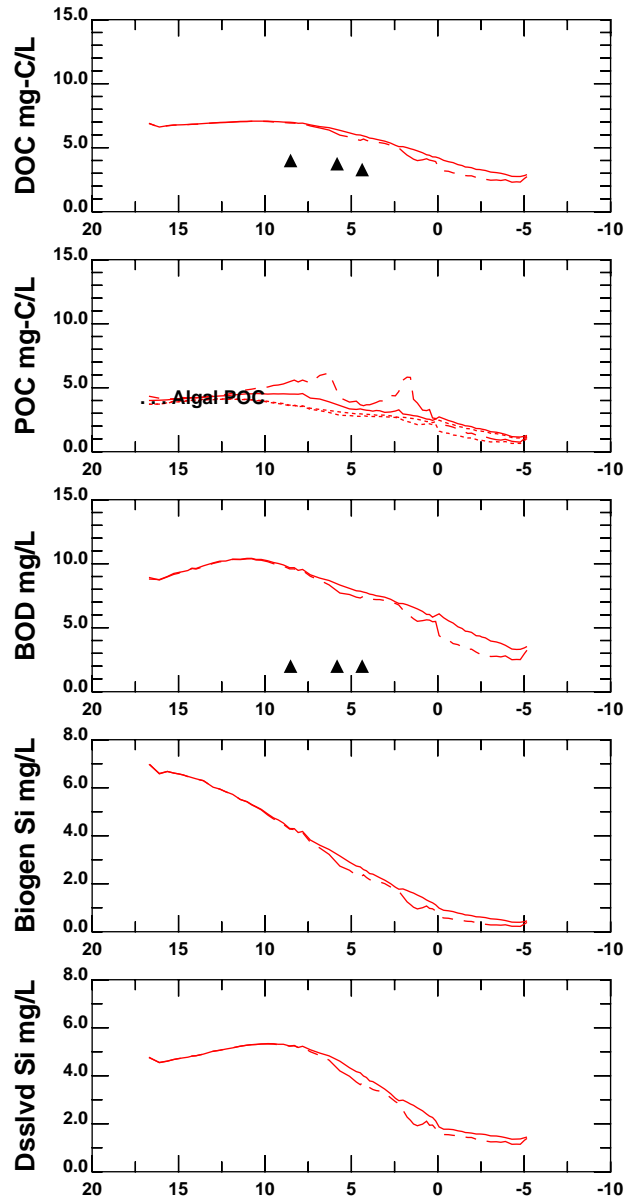
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



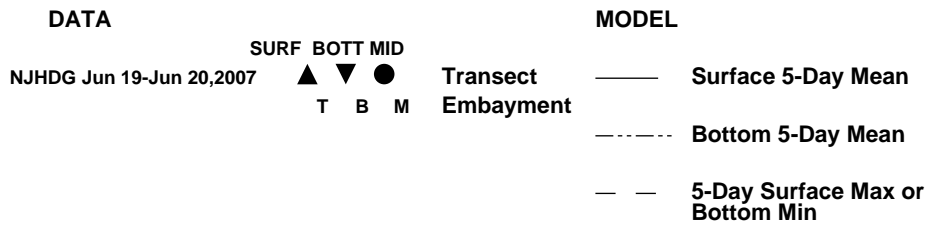
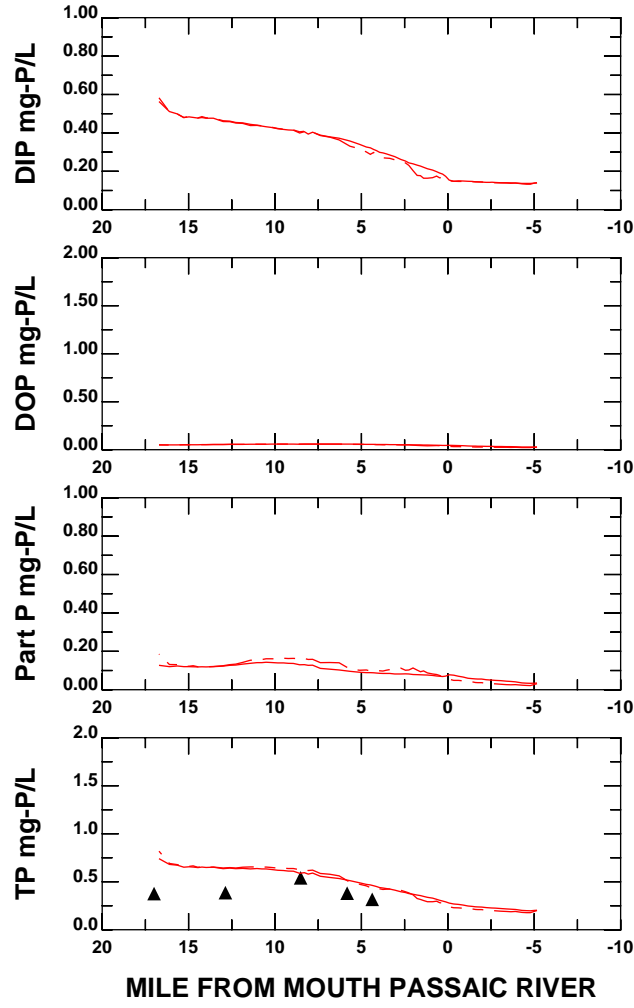
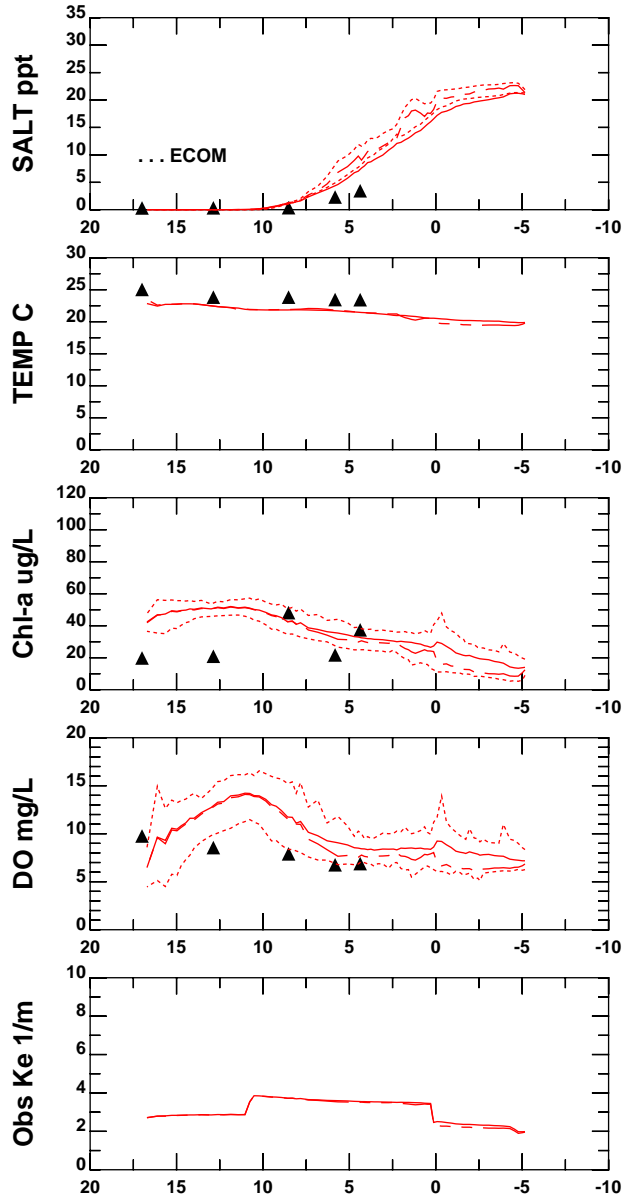
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



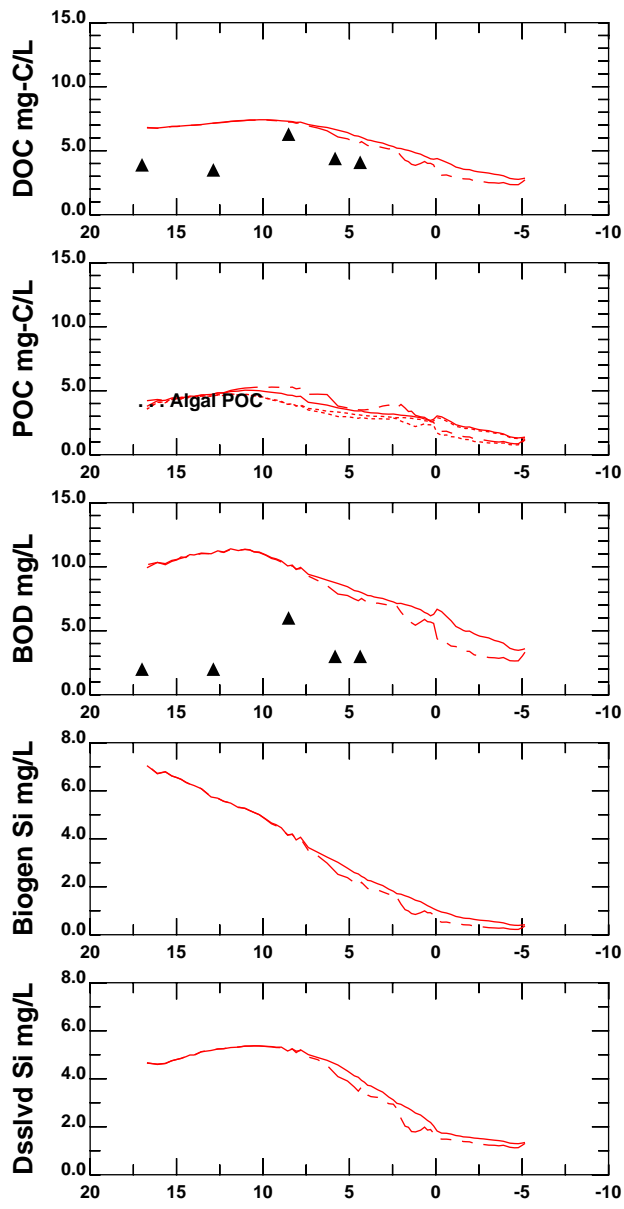


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

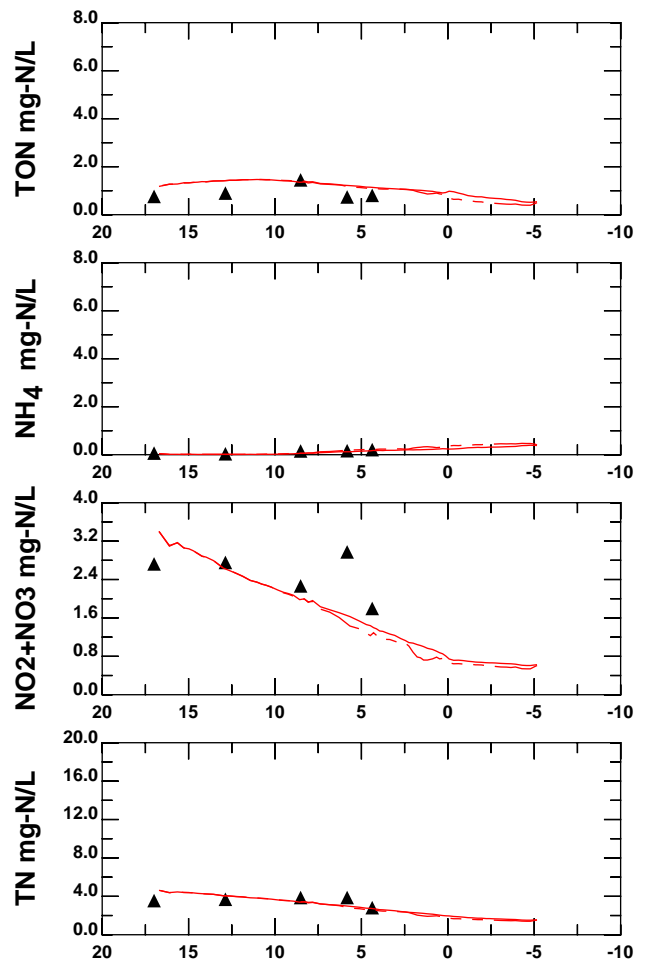




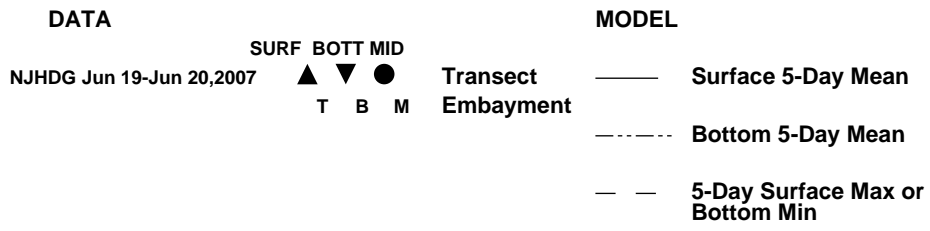
MILE FROM MOUTH PASSAIC RIVER

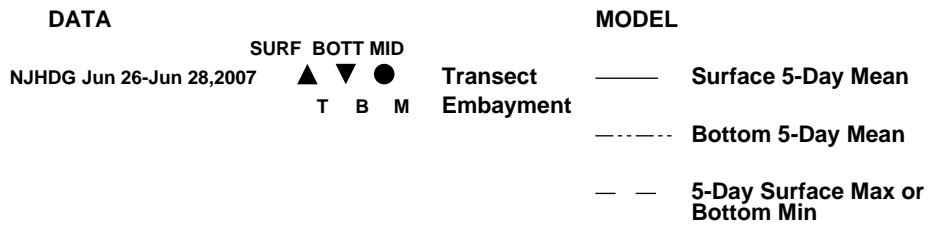
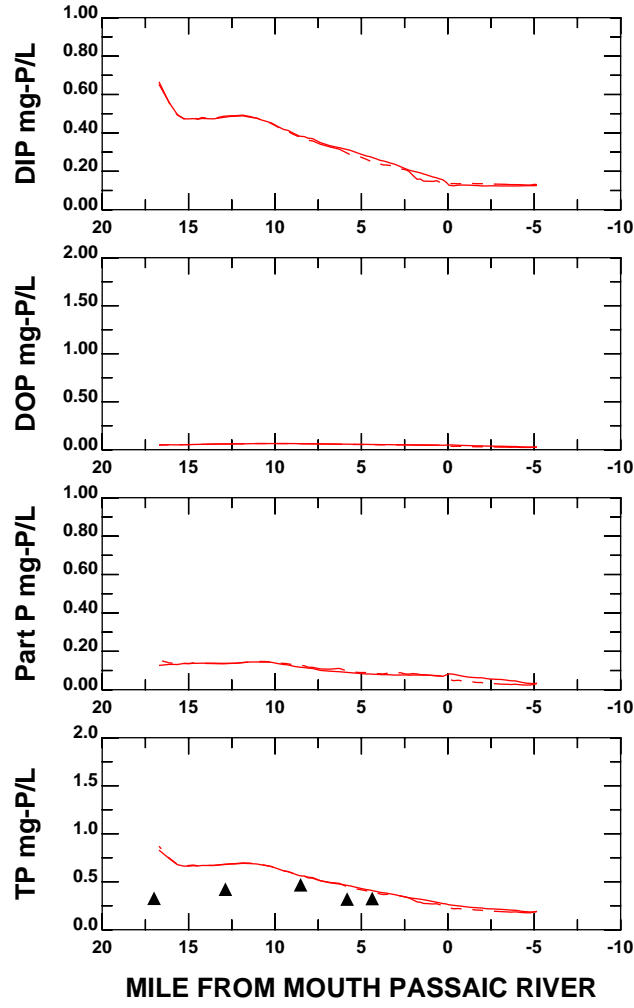
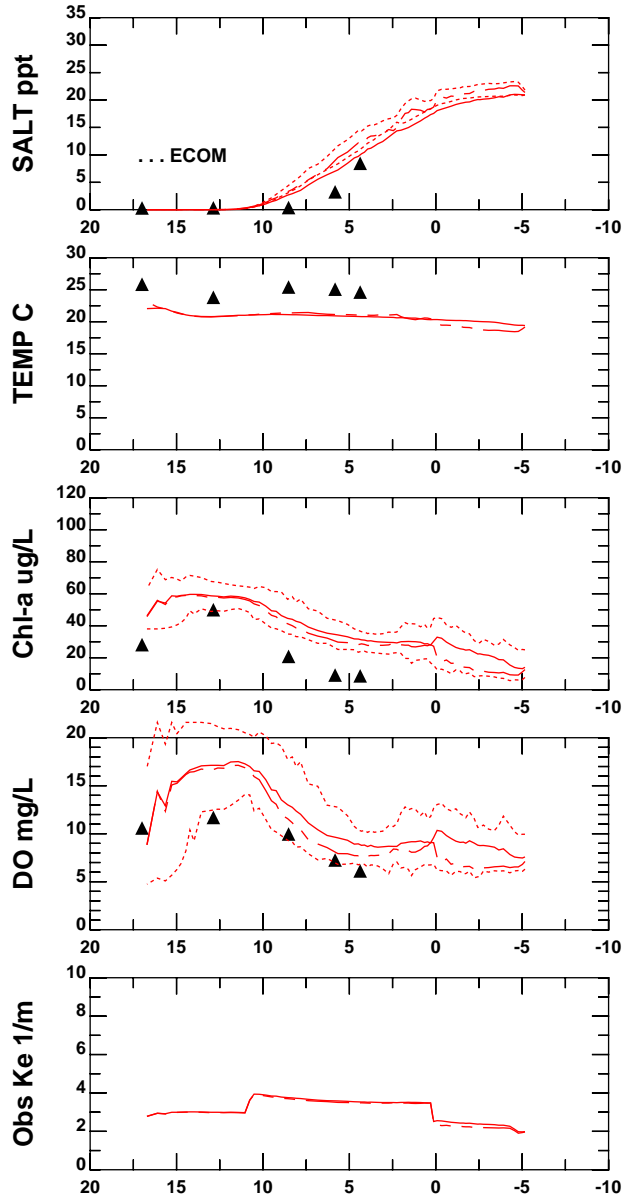
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

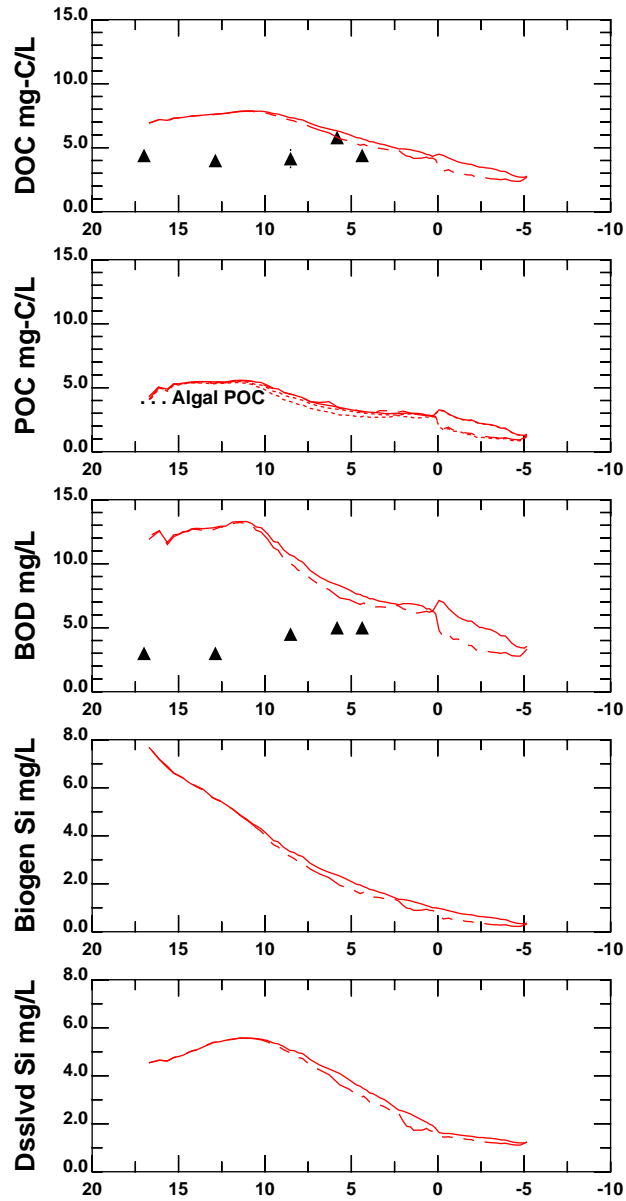


MILE FROM MOUTH PASSAIC RIVER





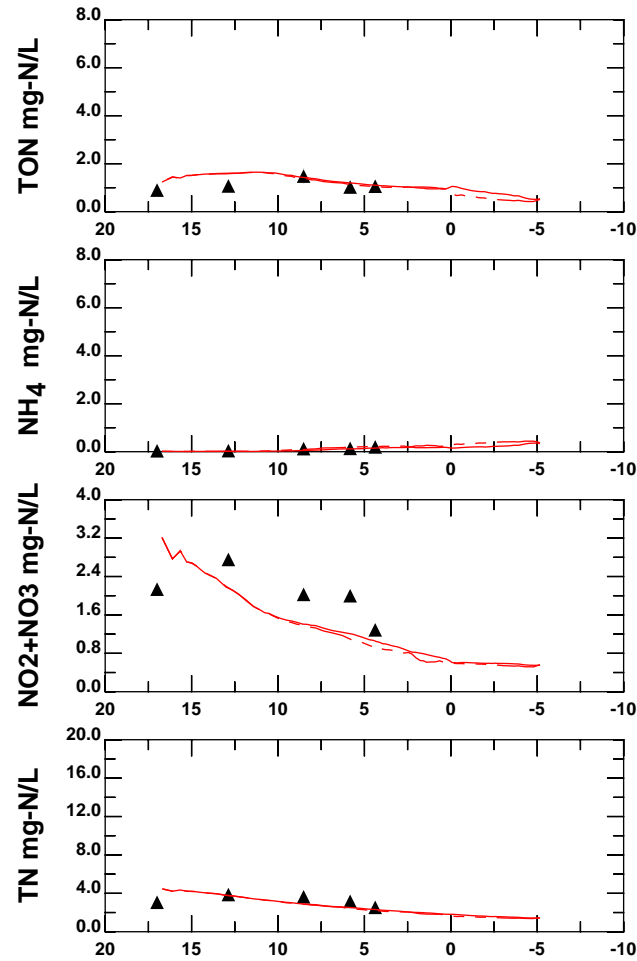
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



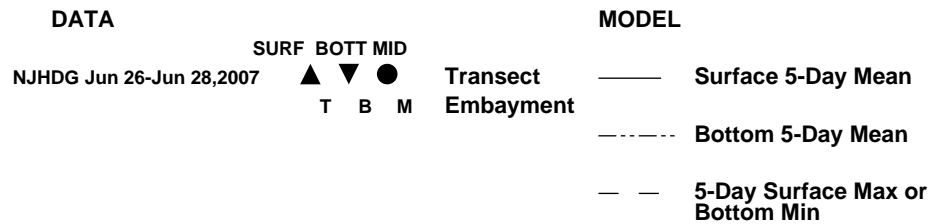
MILE FROM MOUTH PASSAIC RIVER

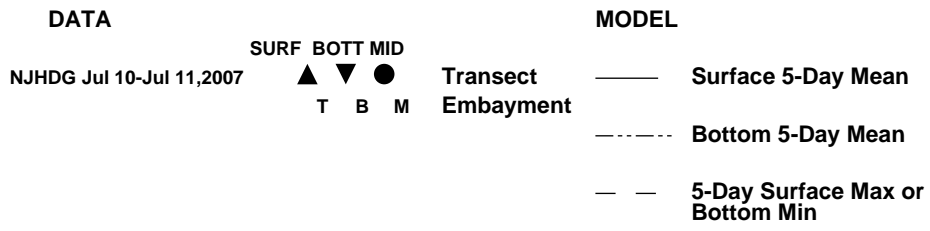
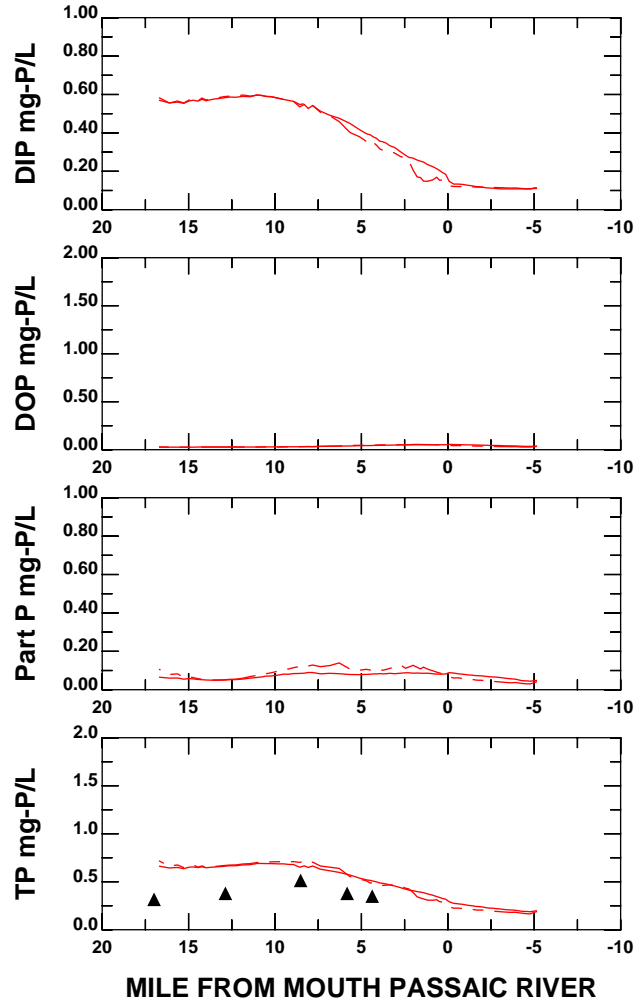
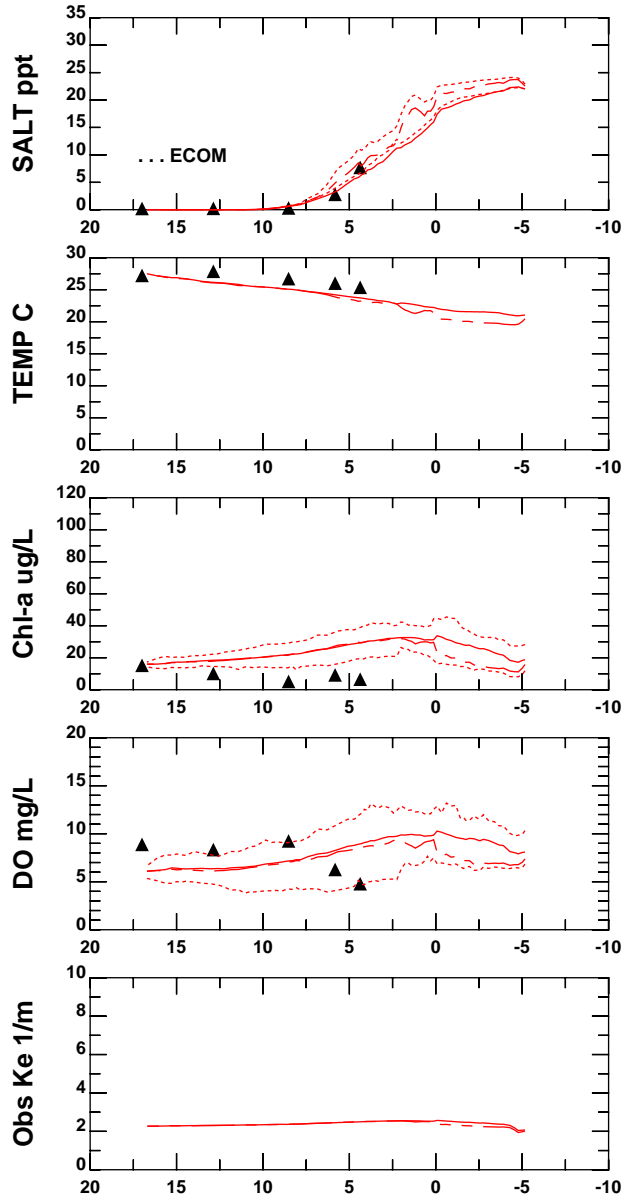
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

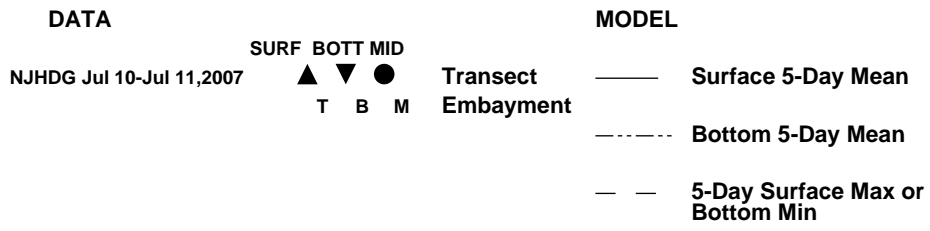
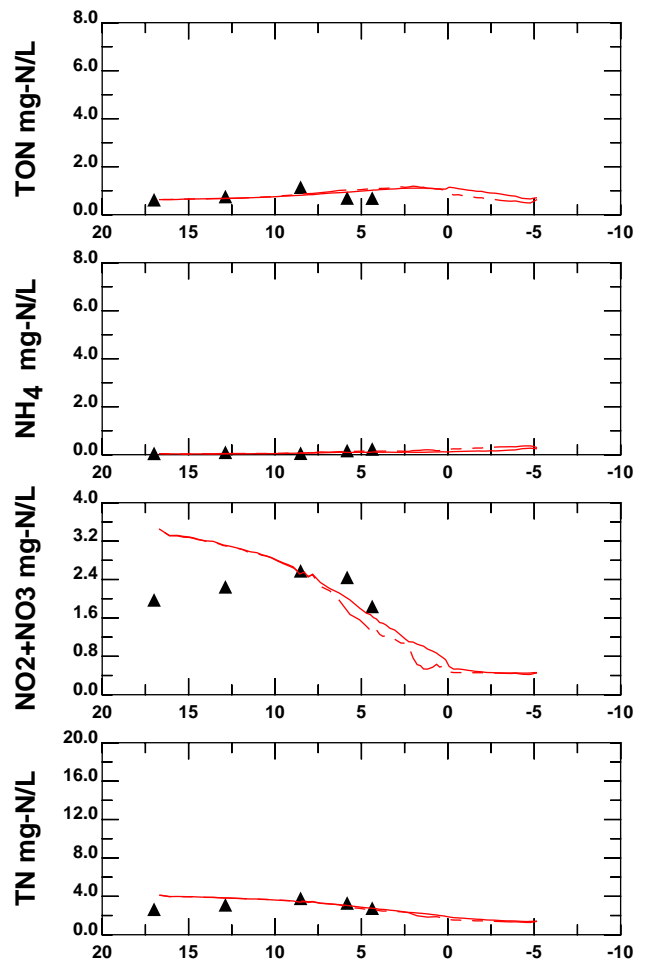
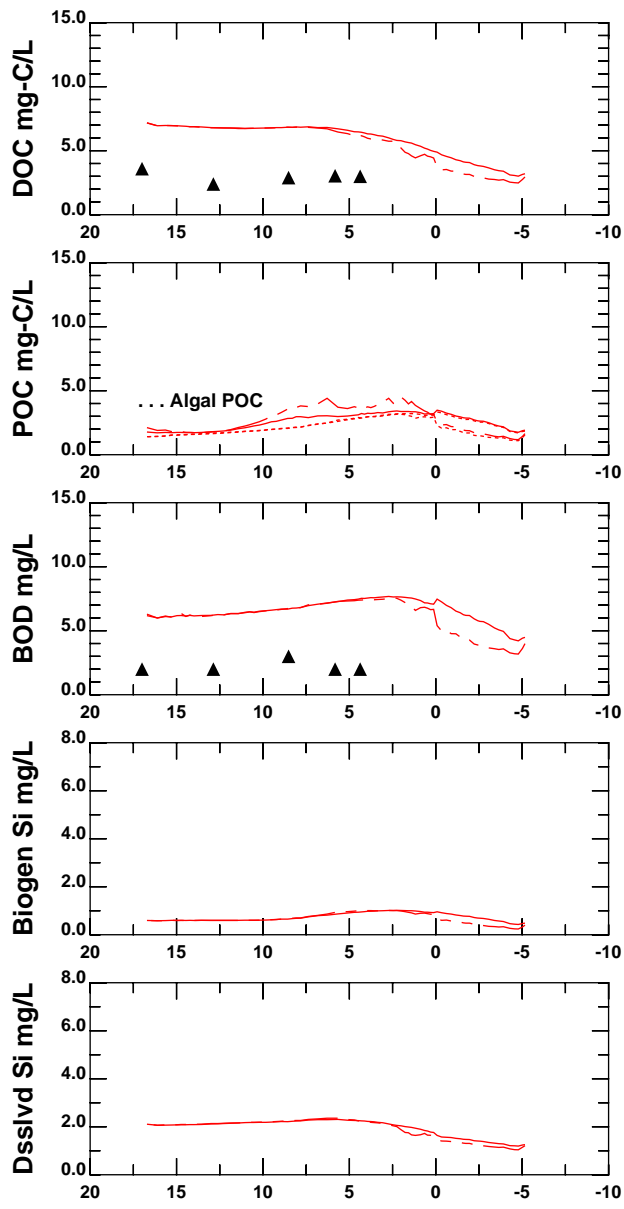


MILE FROM MOUTH PASSAIC RIVER

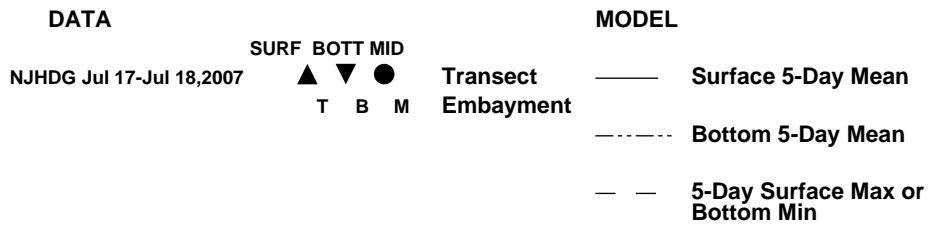
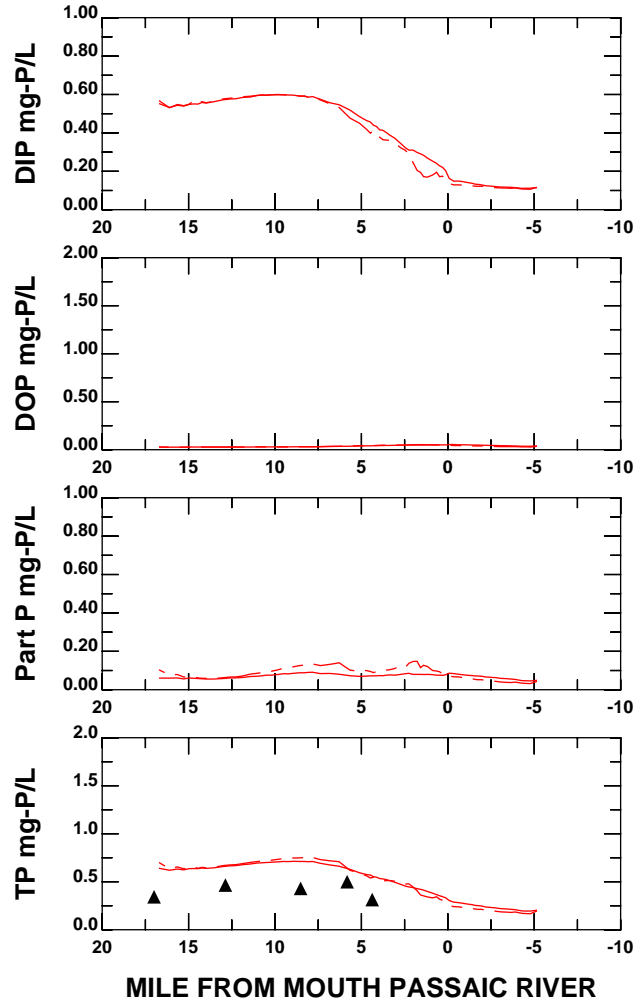
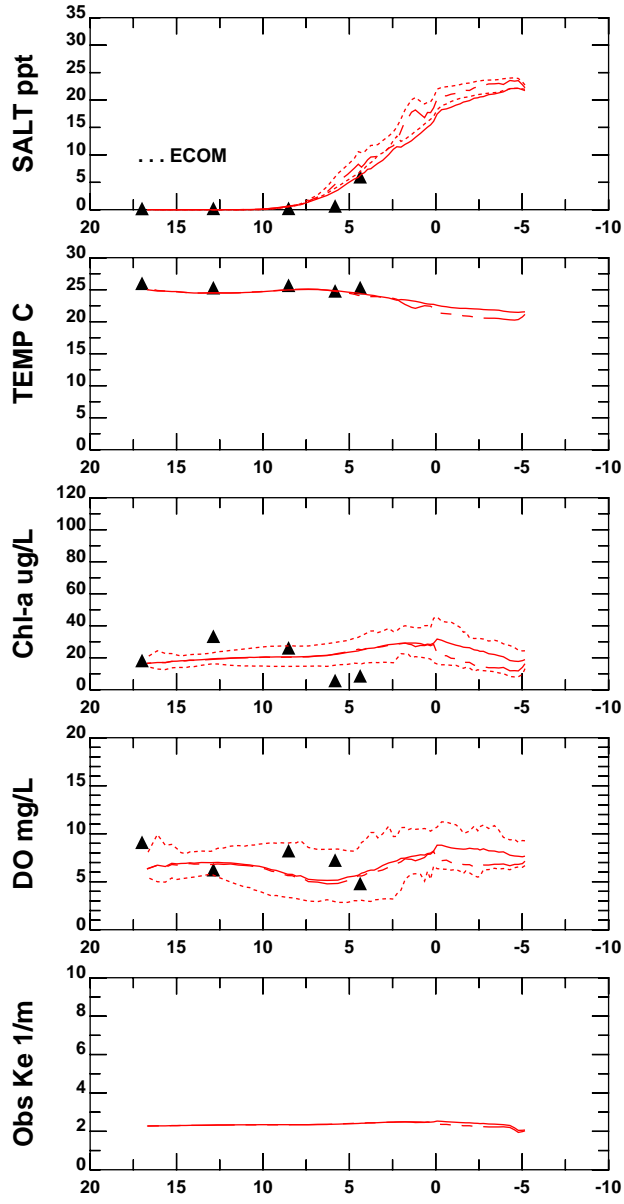




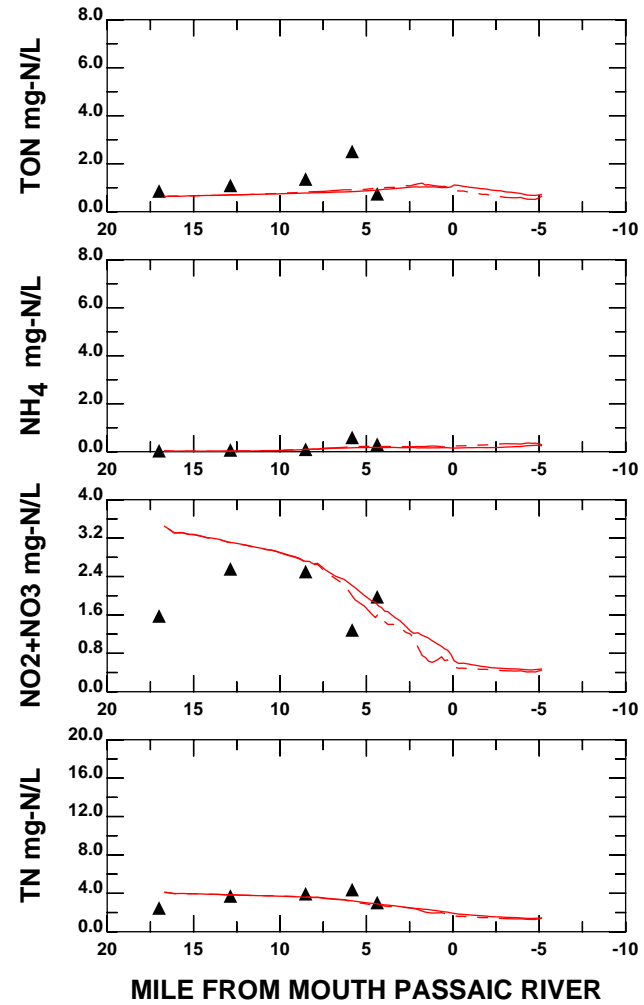
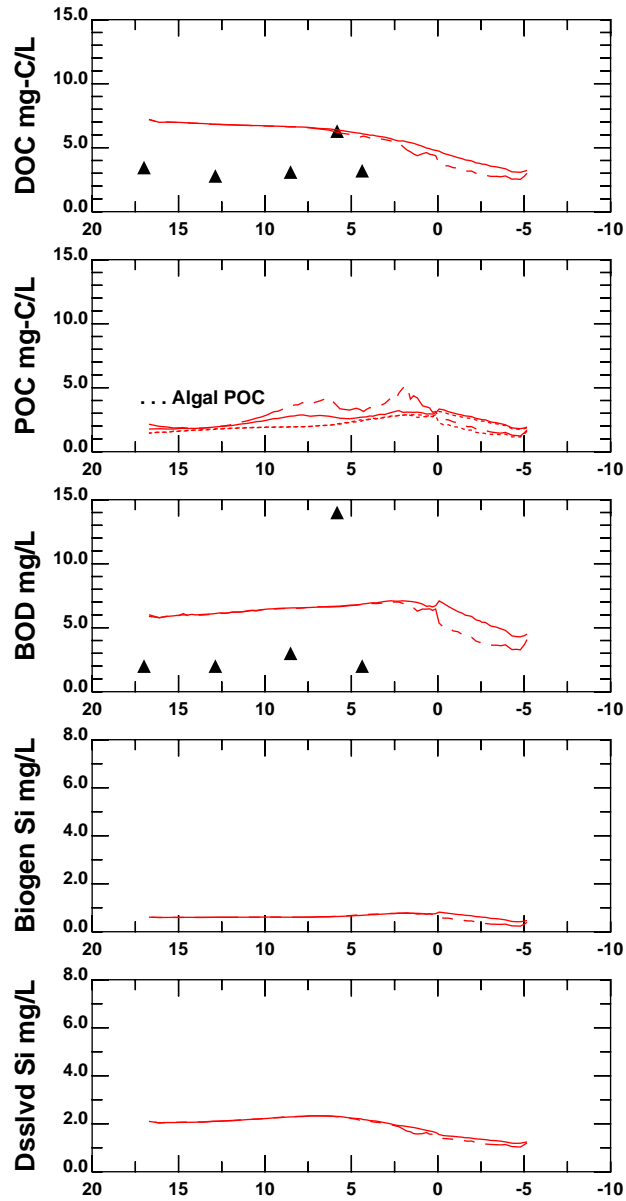
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



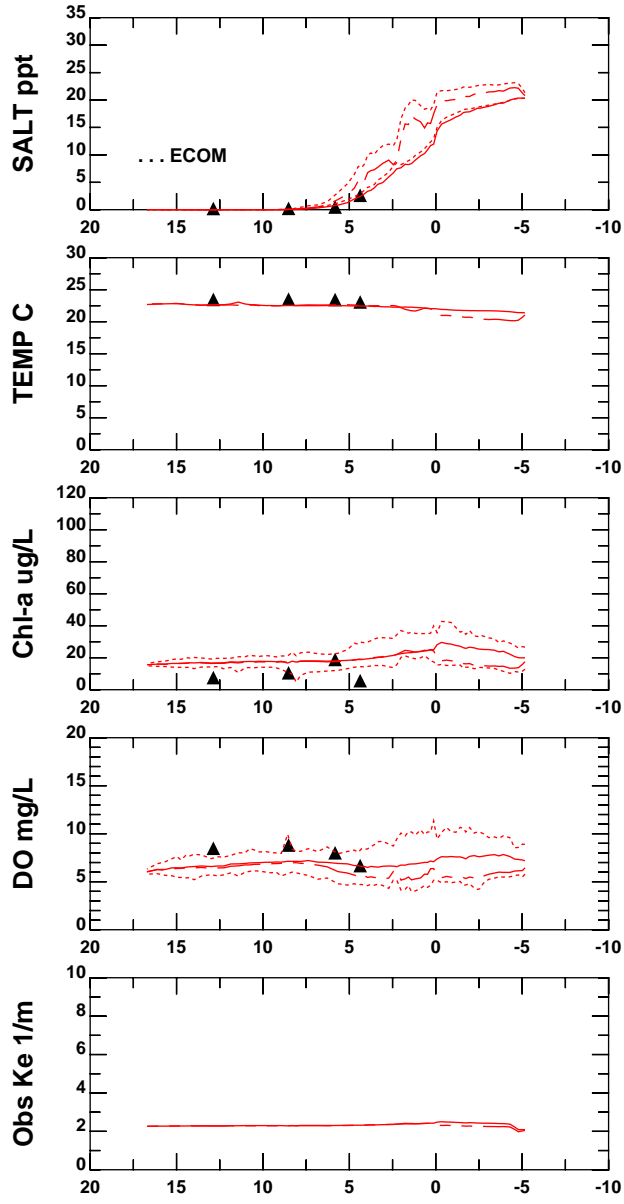
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



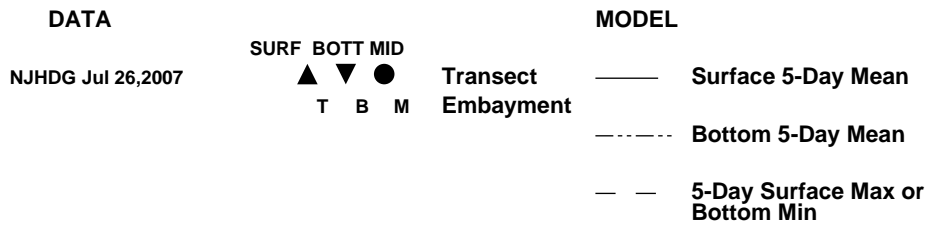
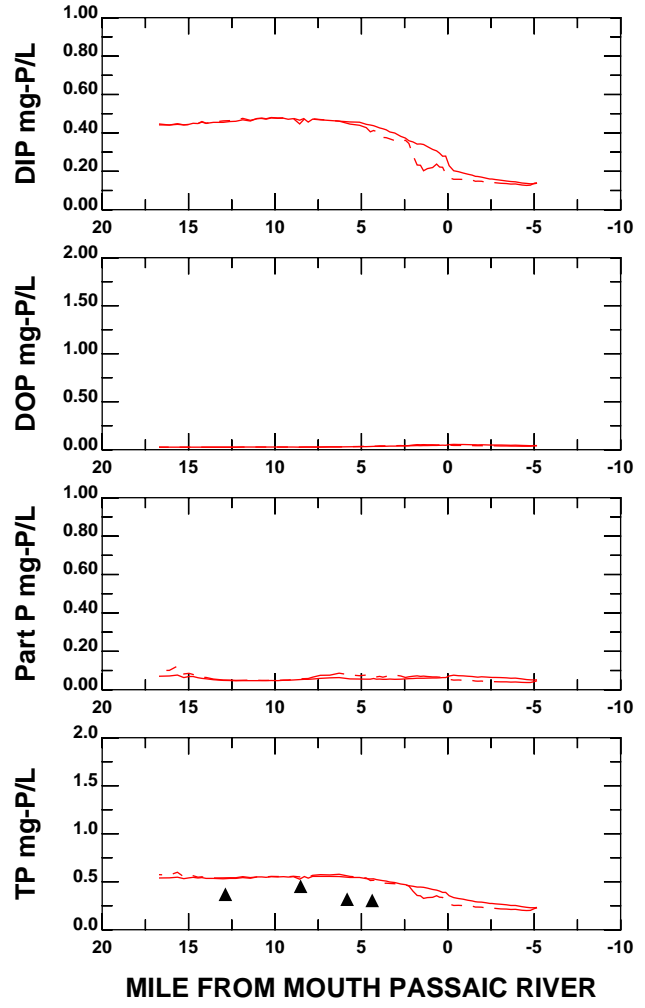
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



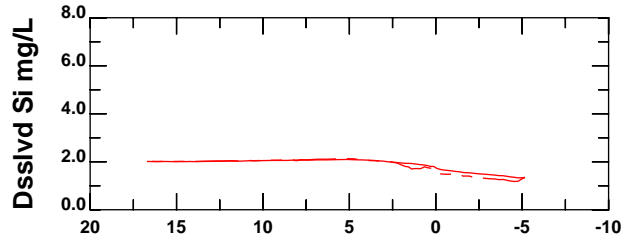
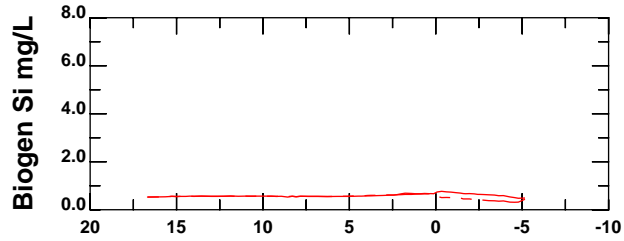
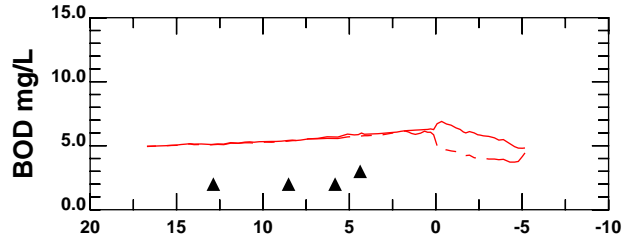
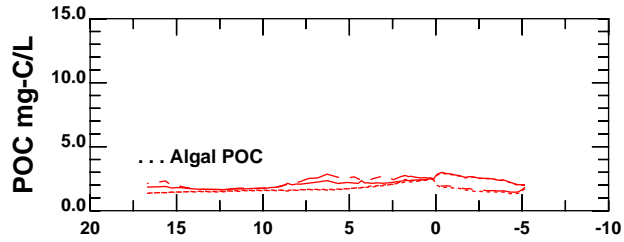
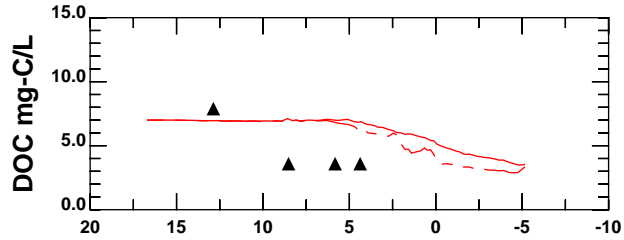
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0607



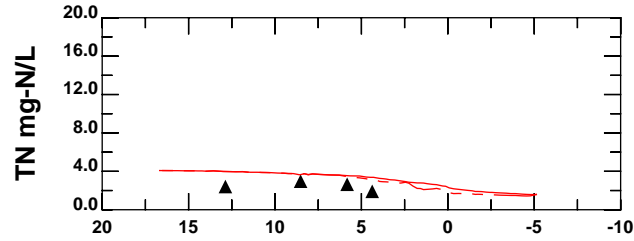
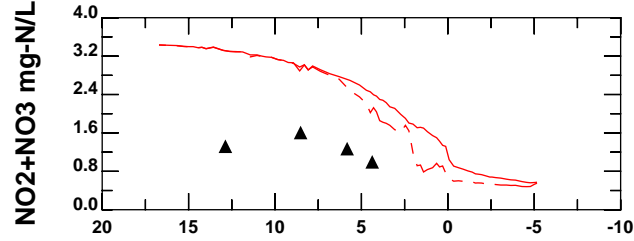
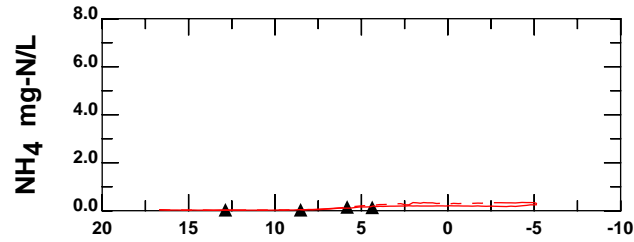
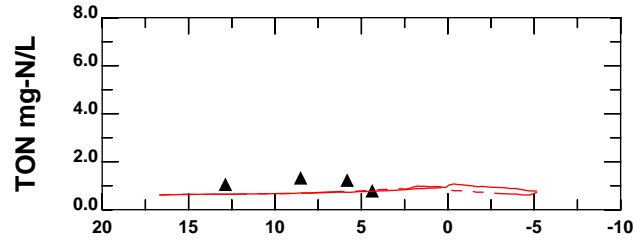




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607



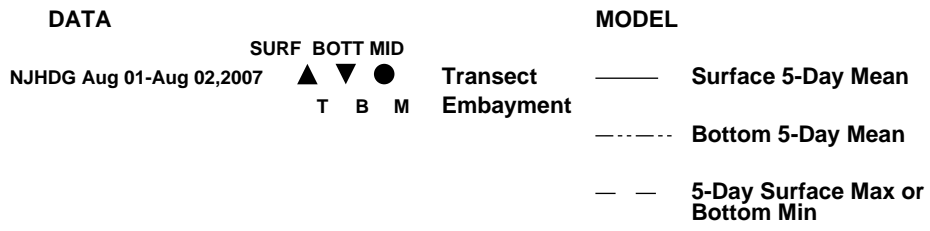
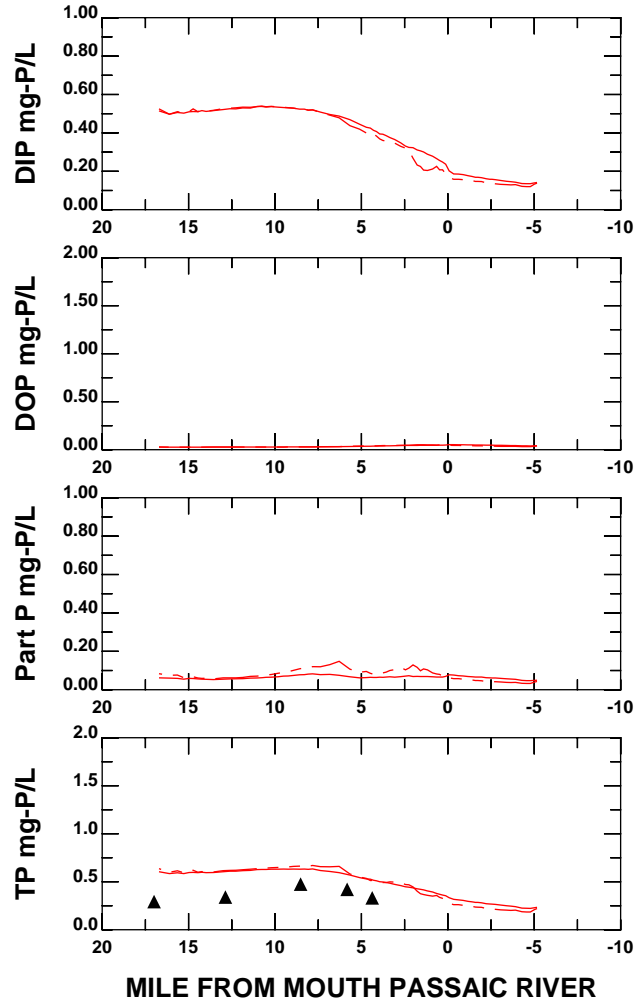
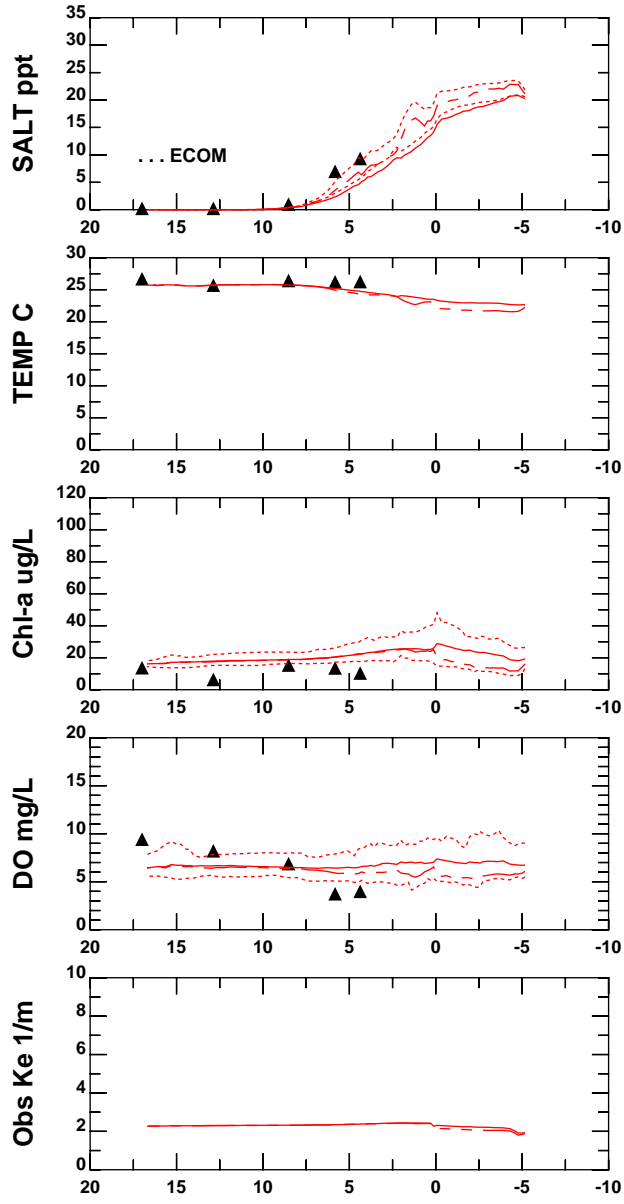
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jul 26, 2007

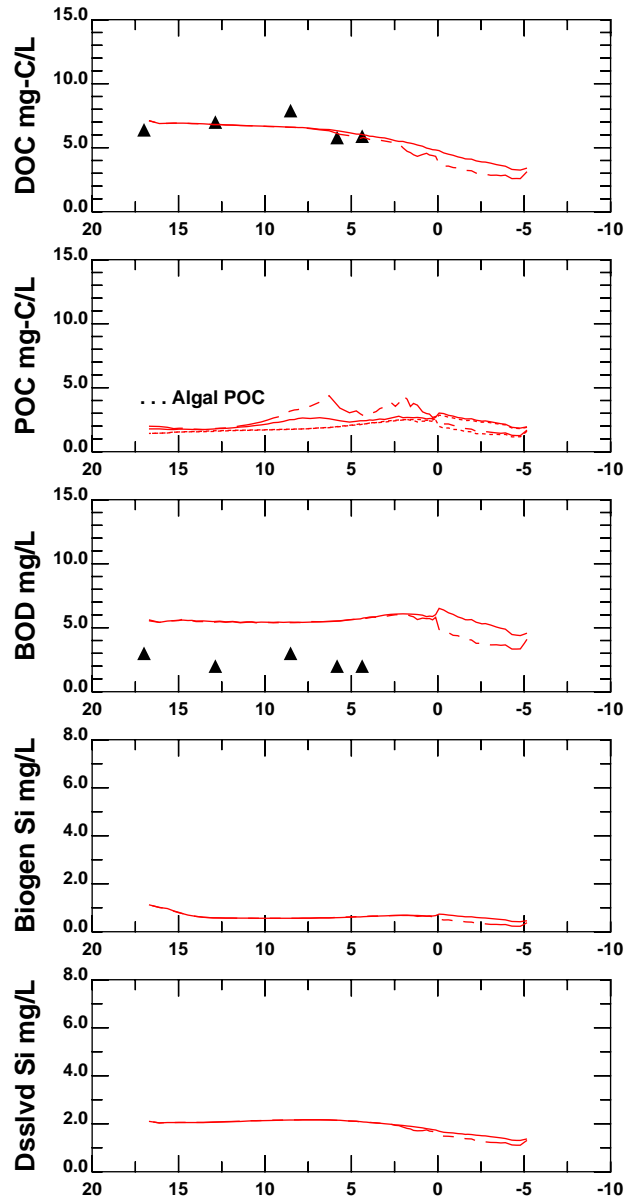
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



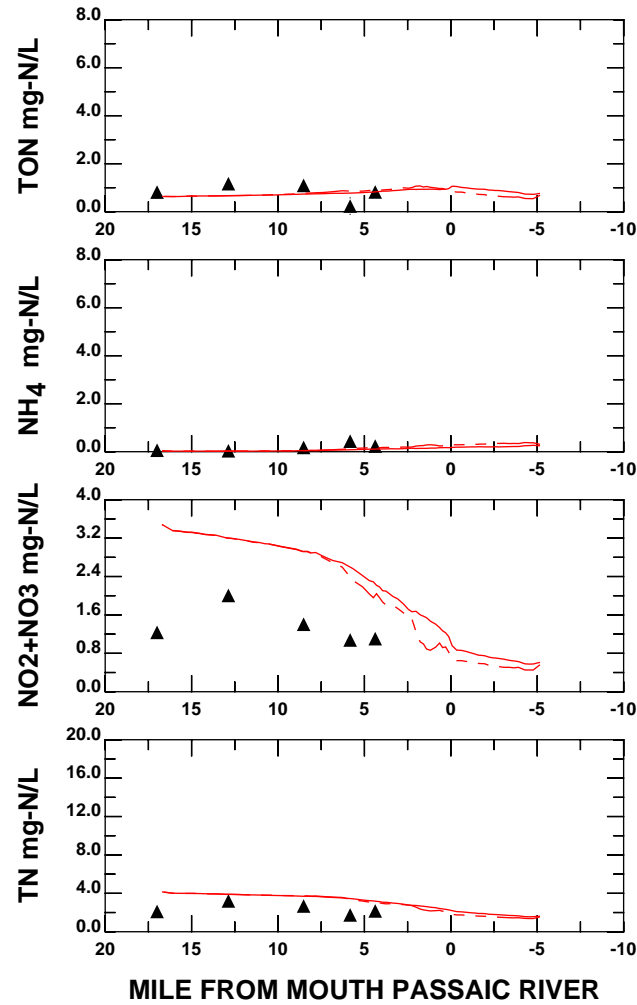
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



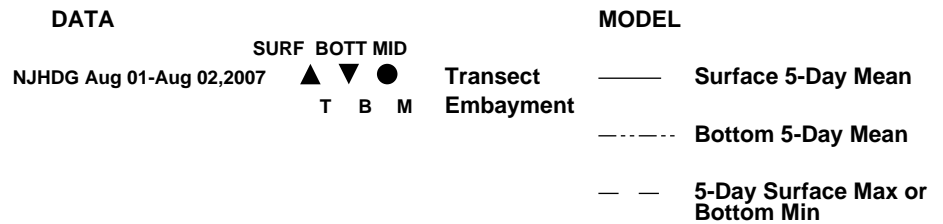
MILE FROM MOUTH PASSAIC RIVER

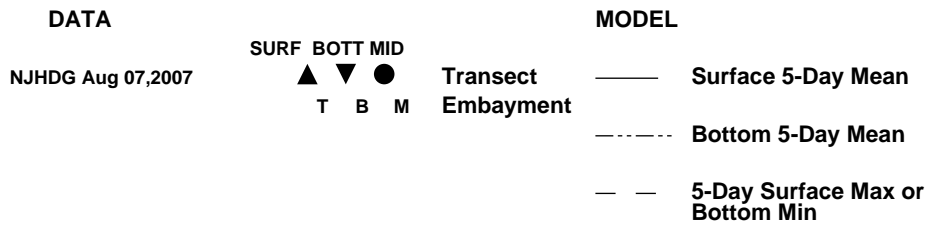
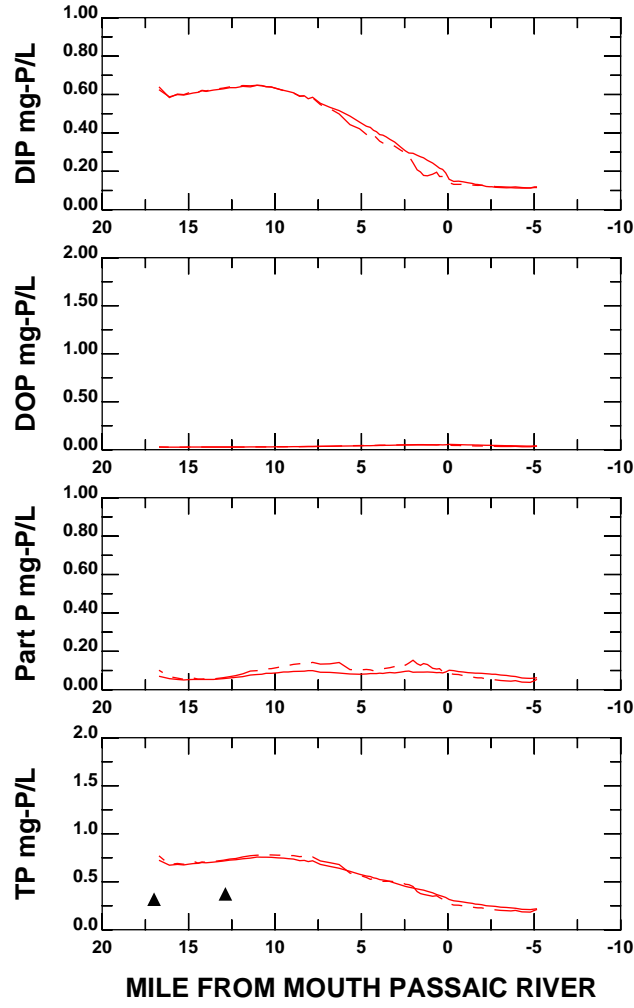
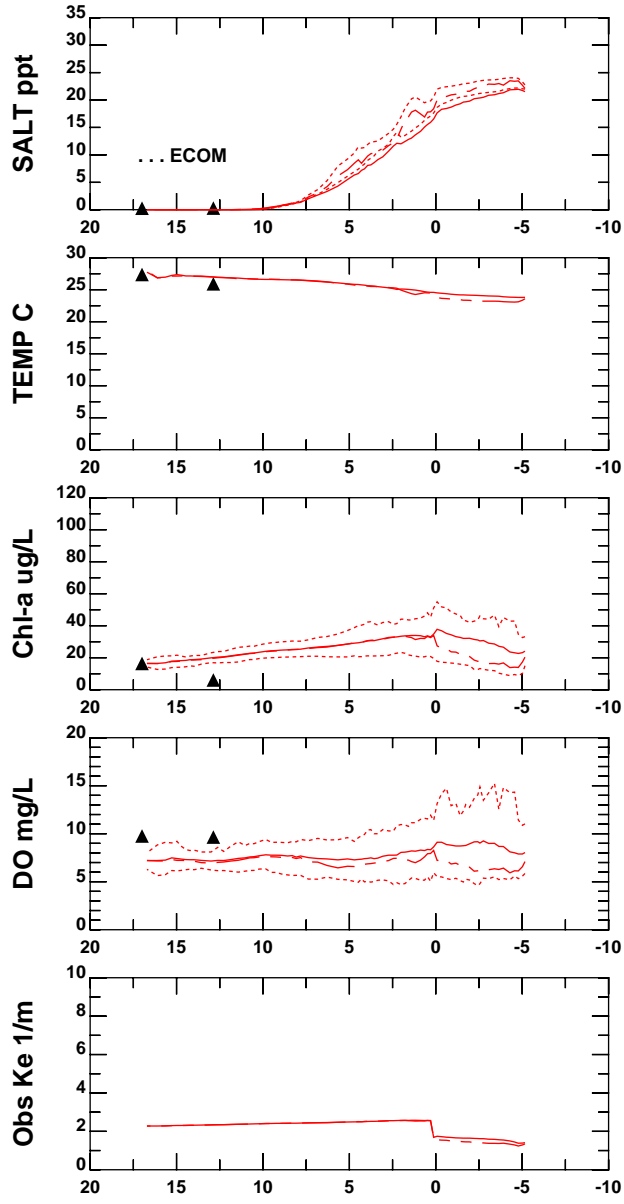
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

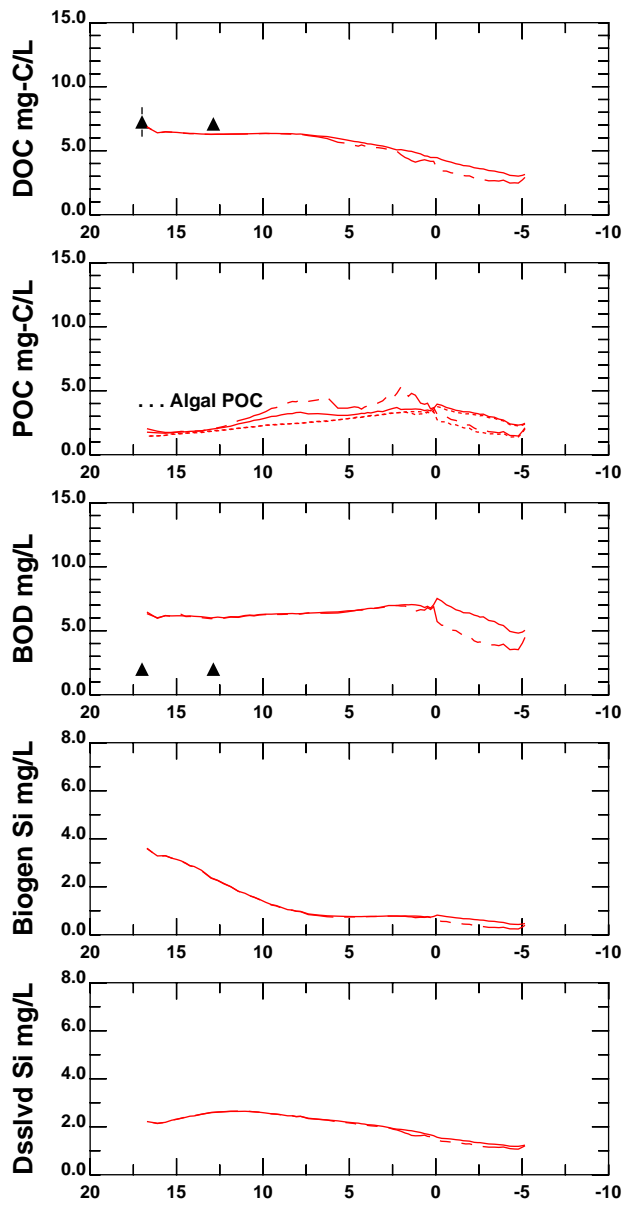


MILE FROM MOUTH PASSAIC RIVER

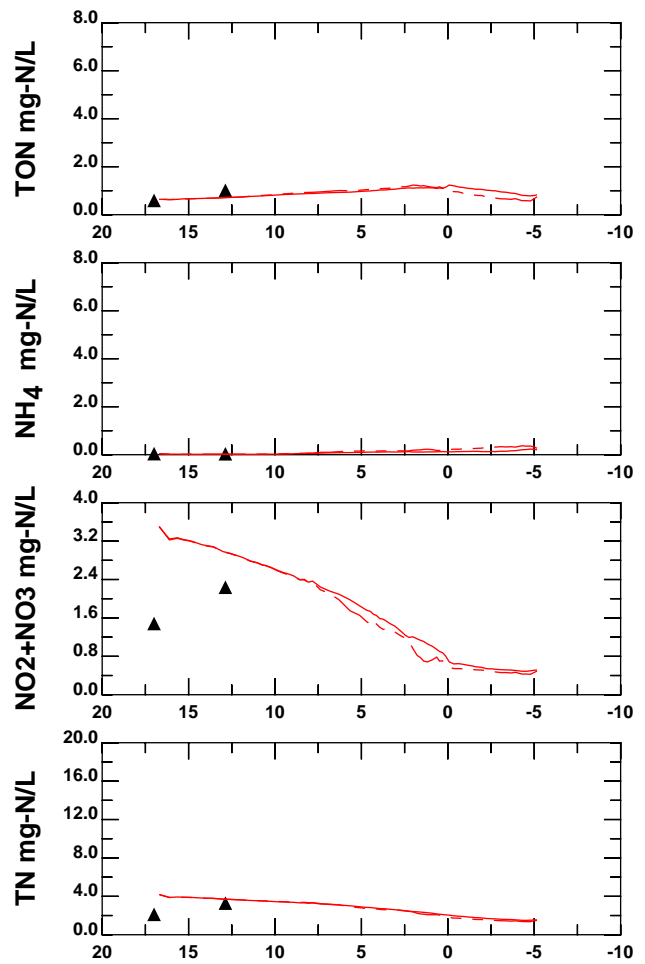




**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

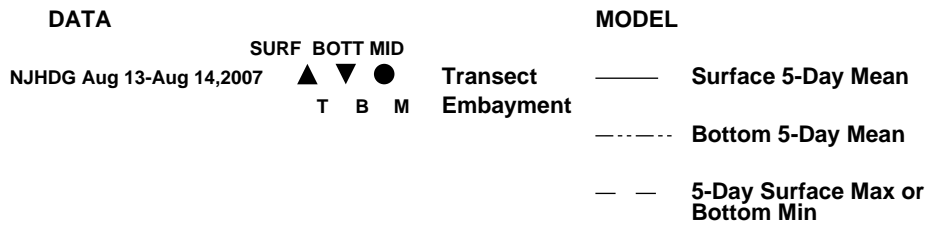
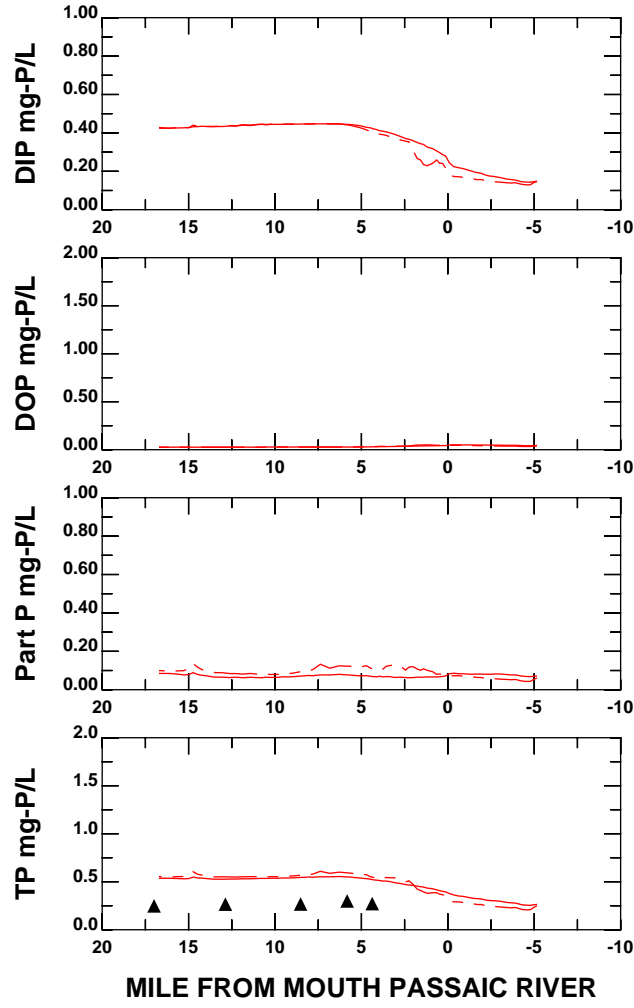
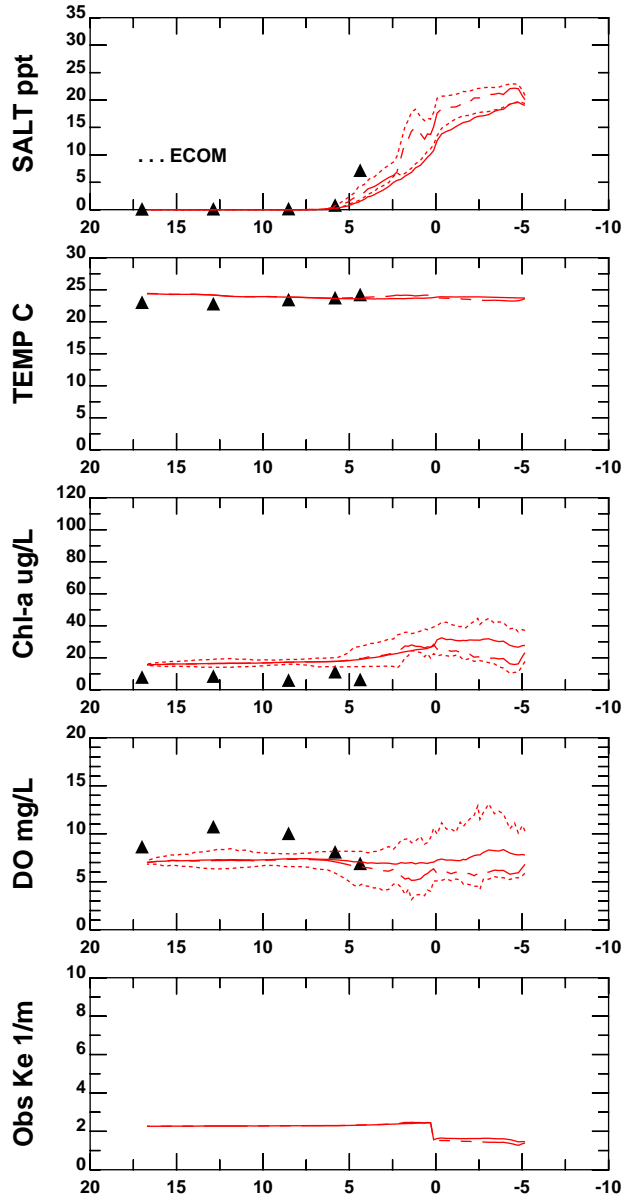
DATA  
NJHDG Aug 07,2007

MODEL

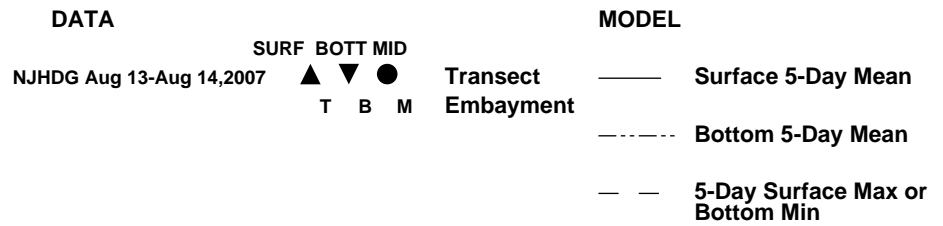
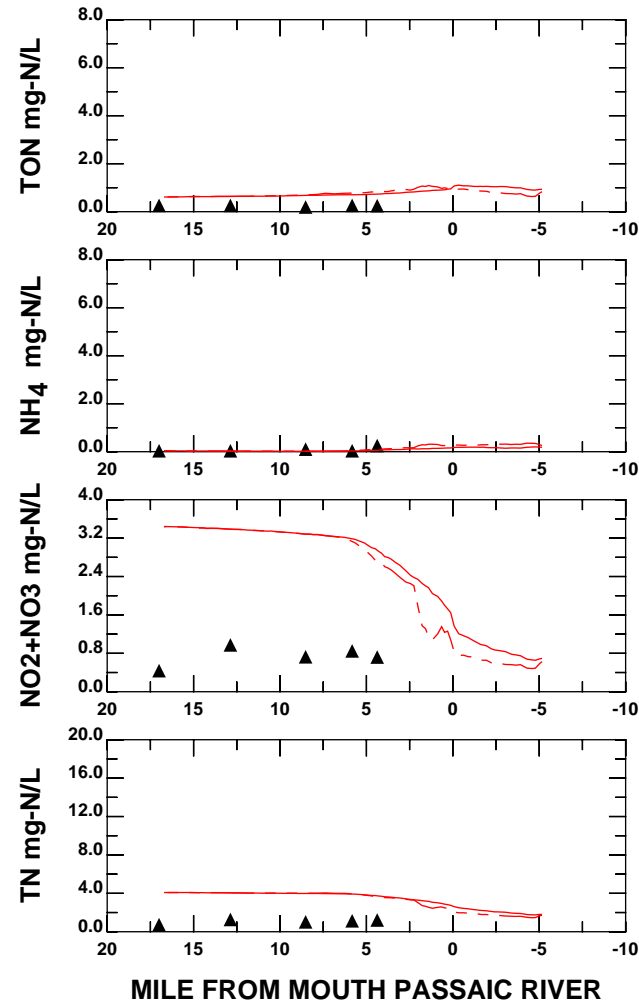
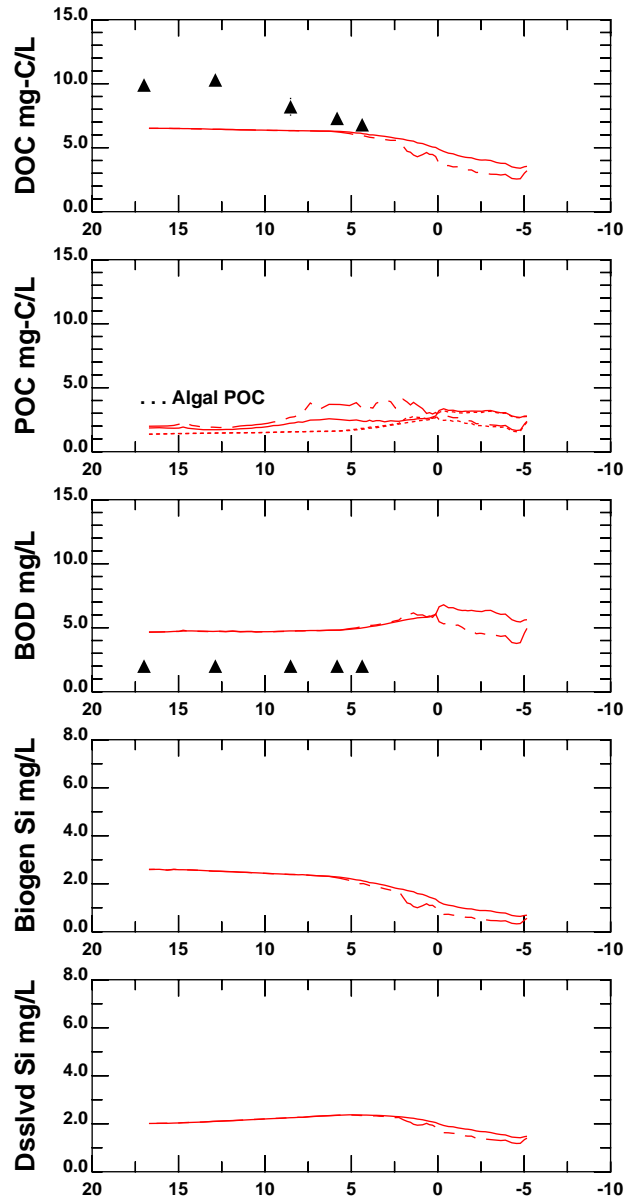
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

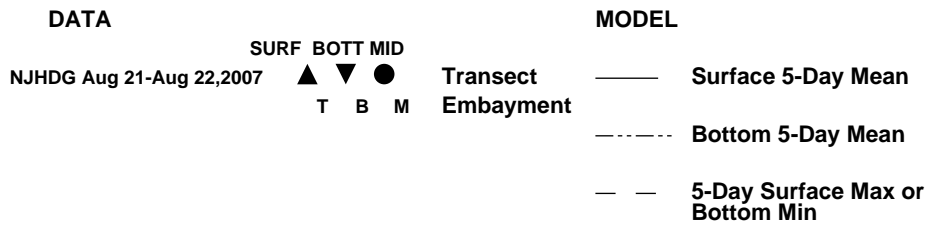
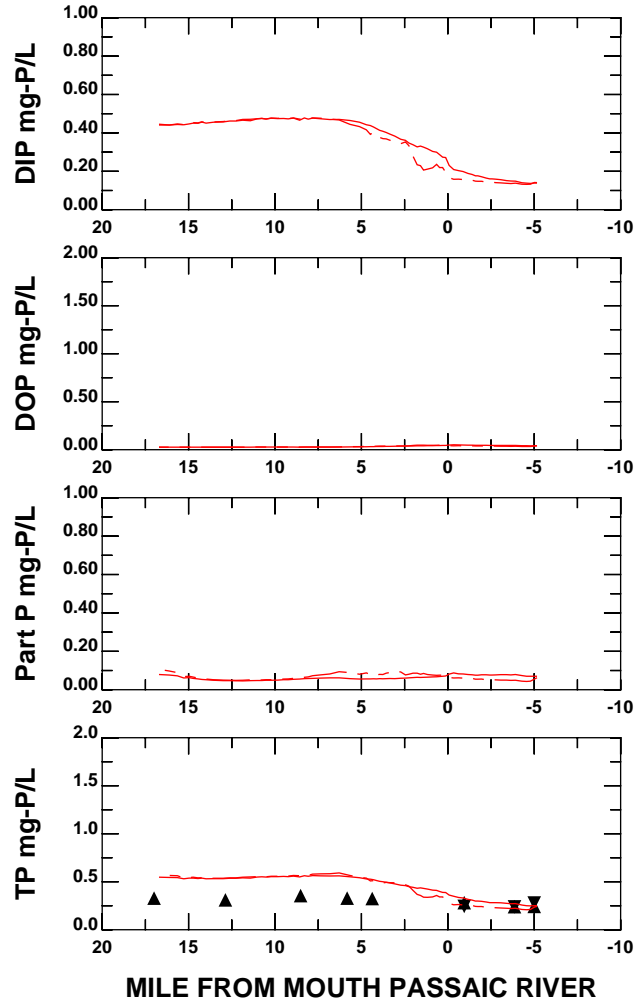
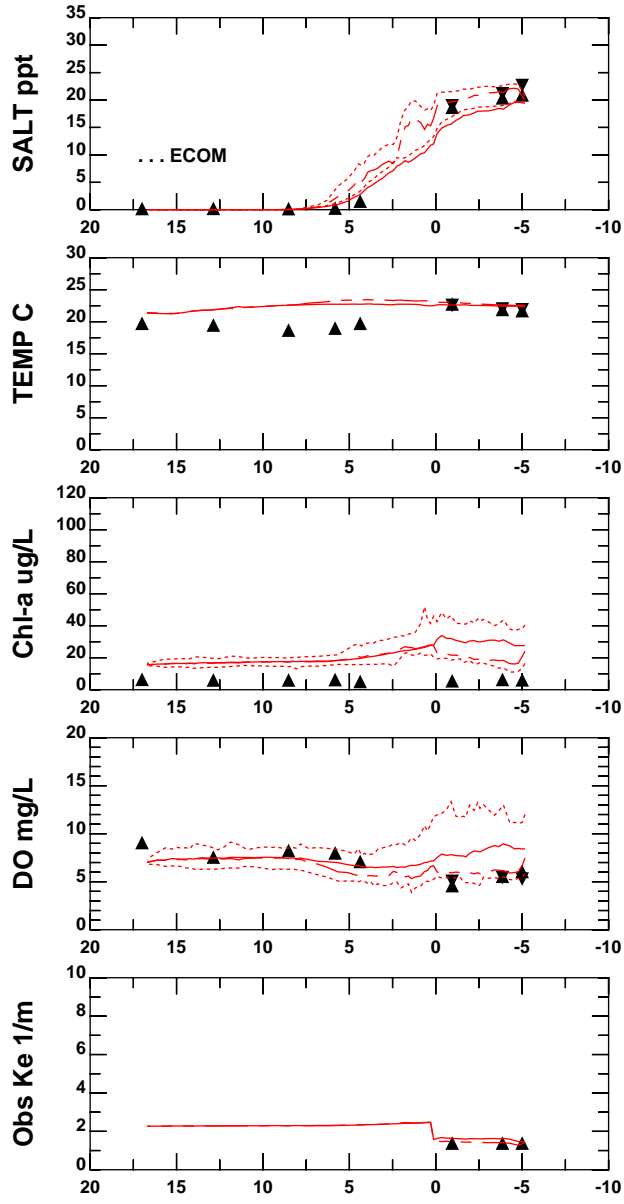
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

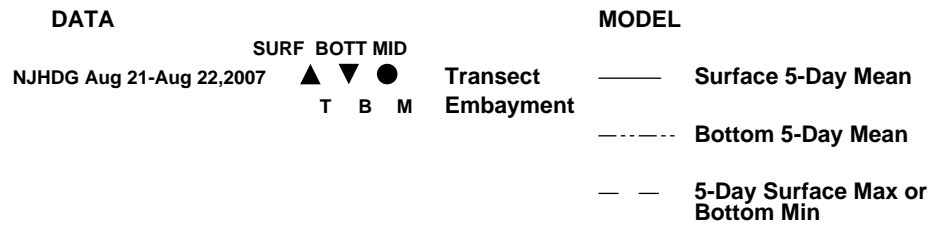
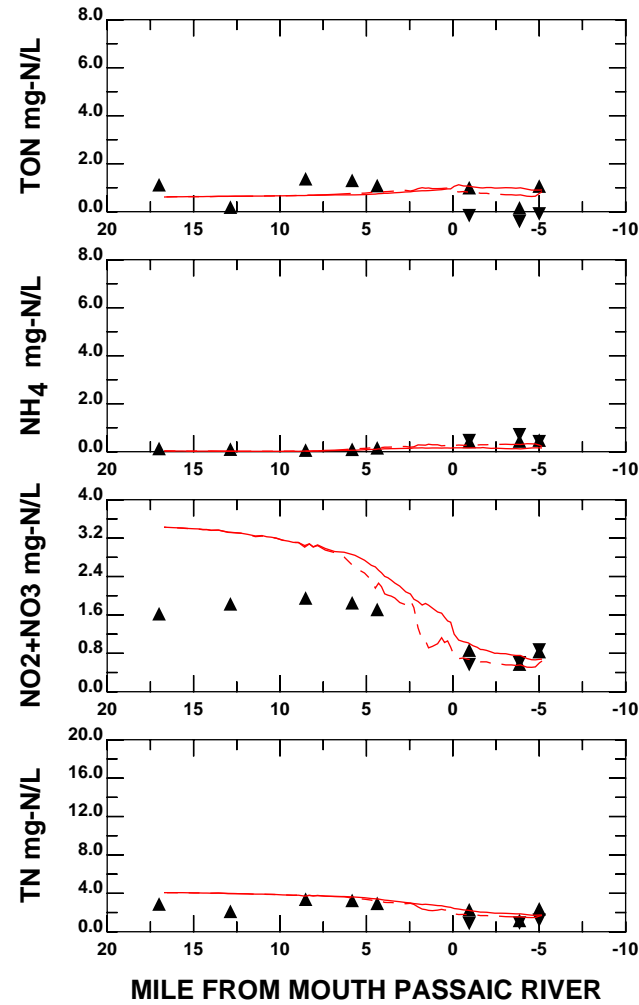
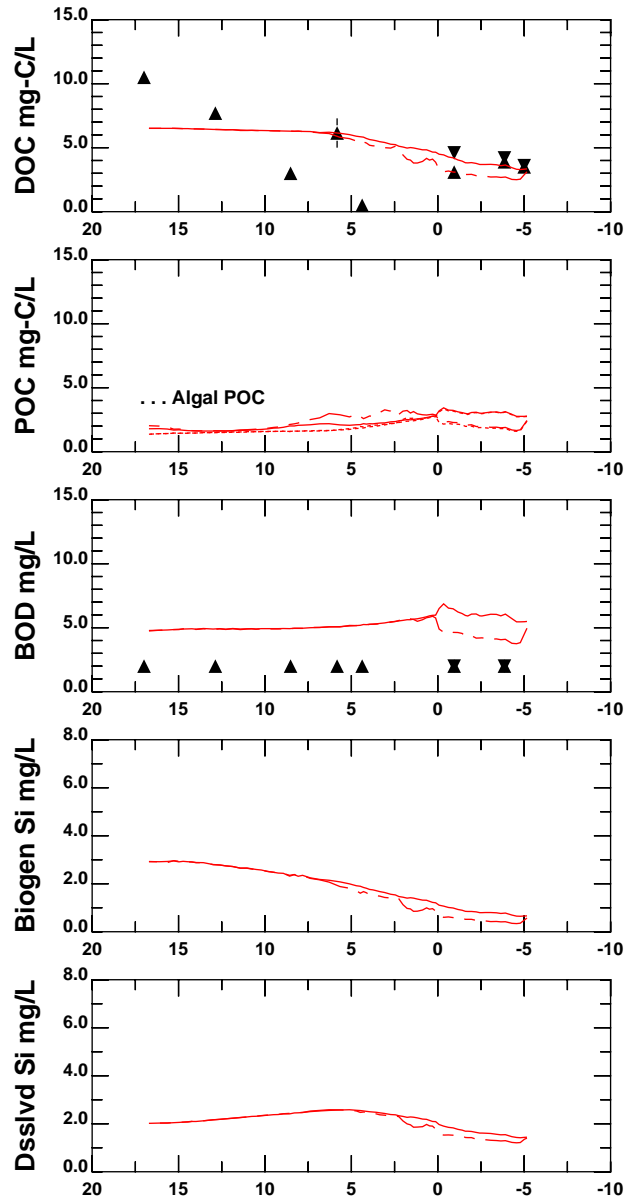


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

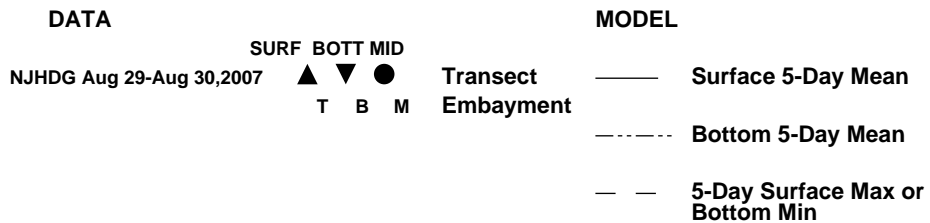
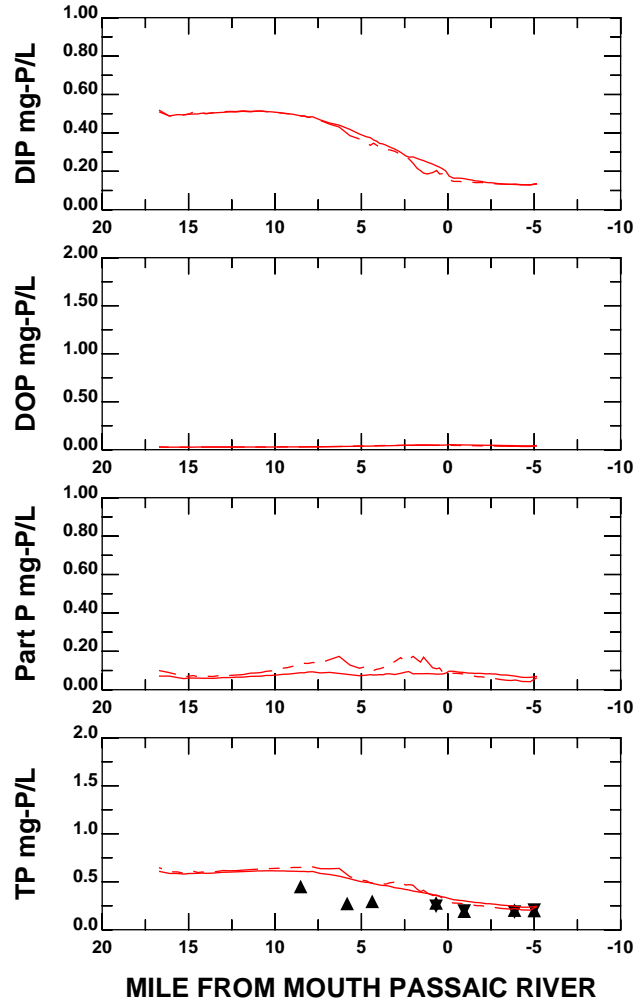
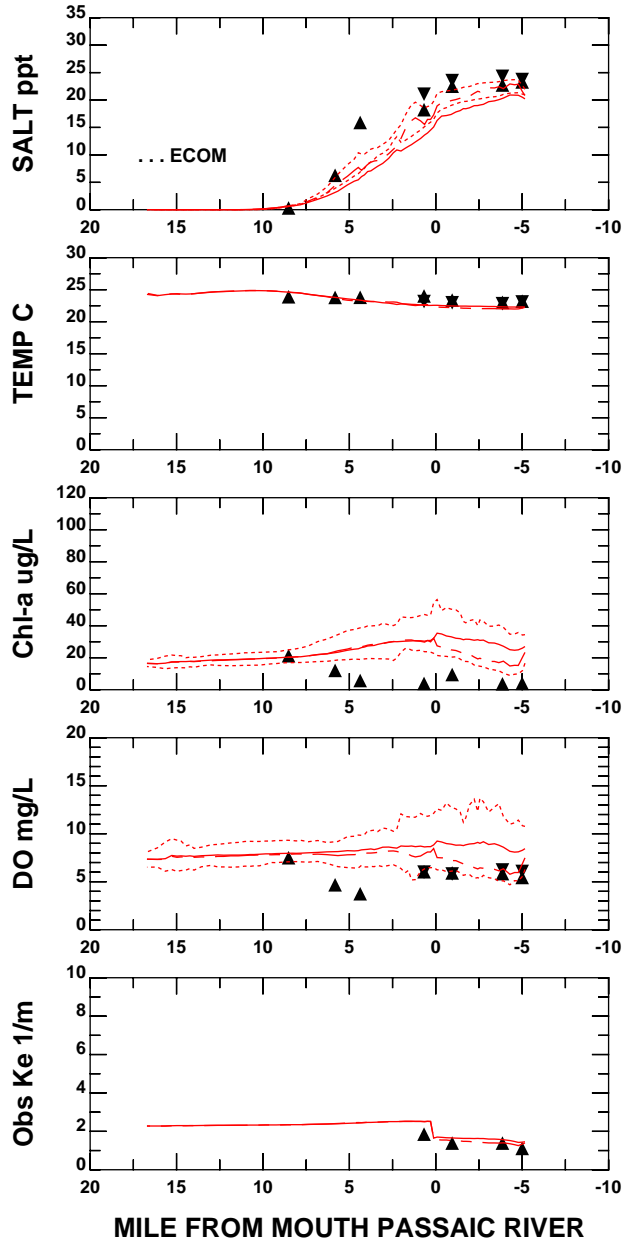


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

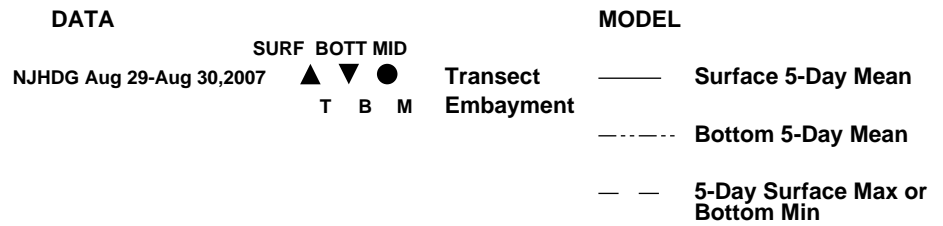
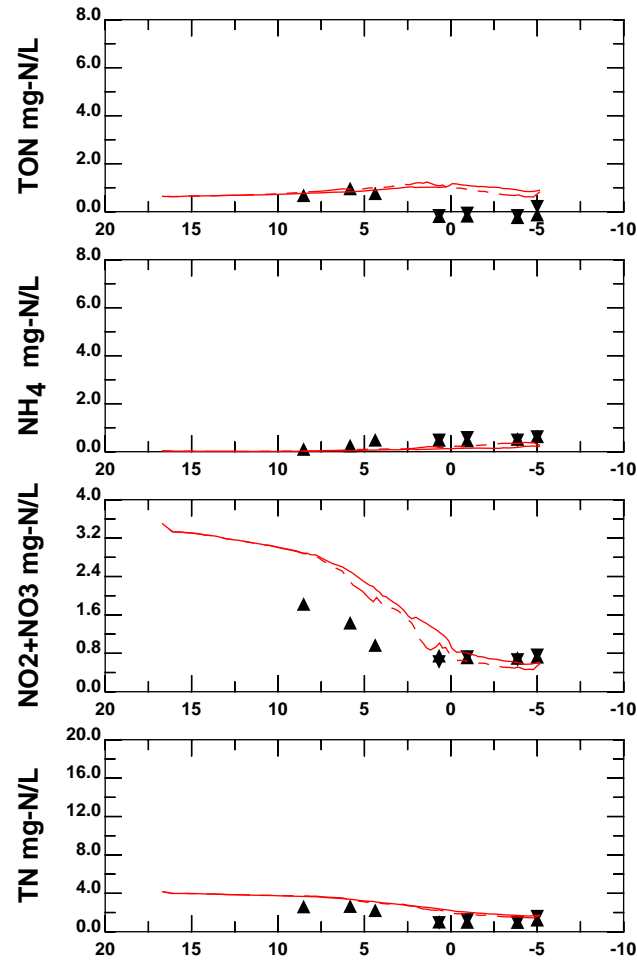
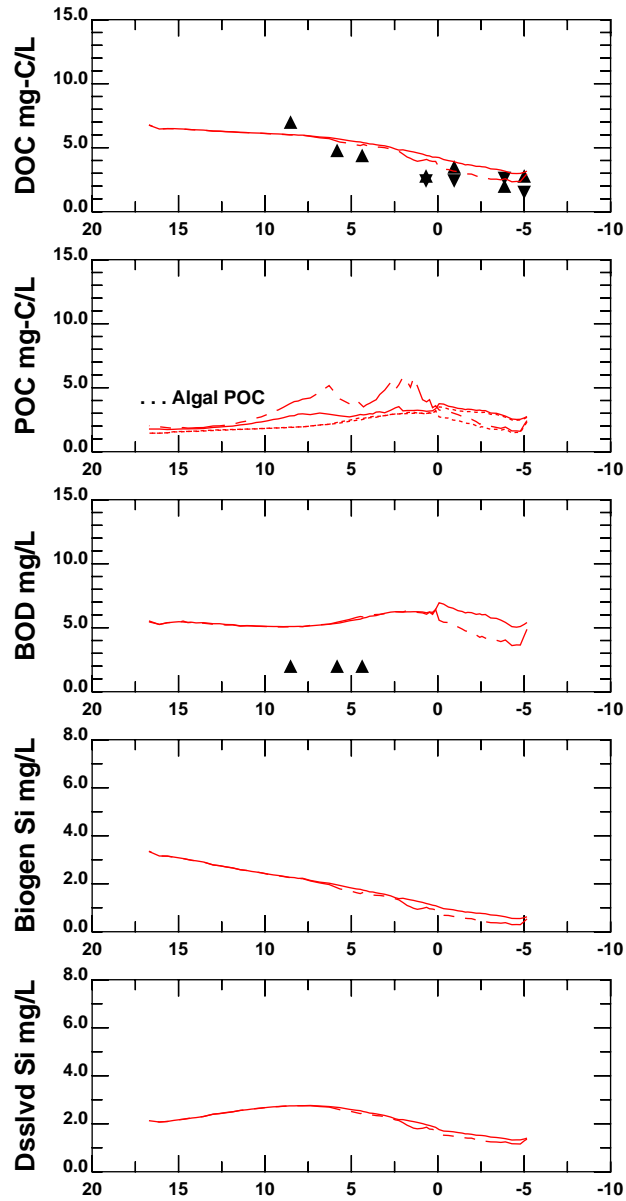




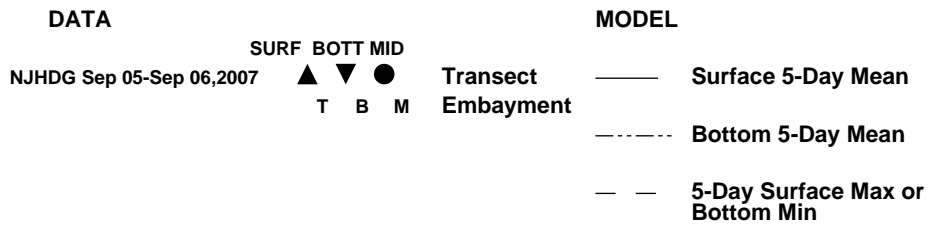
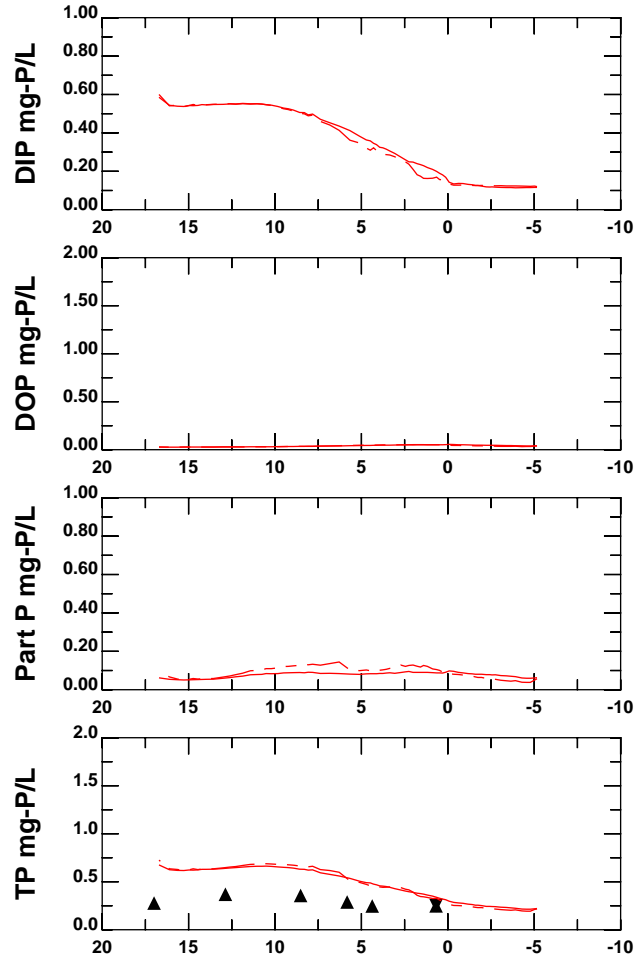
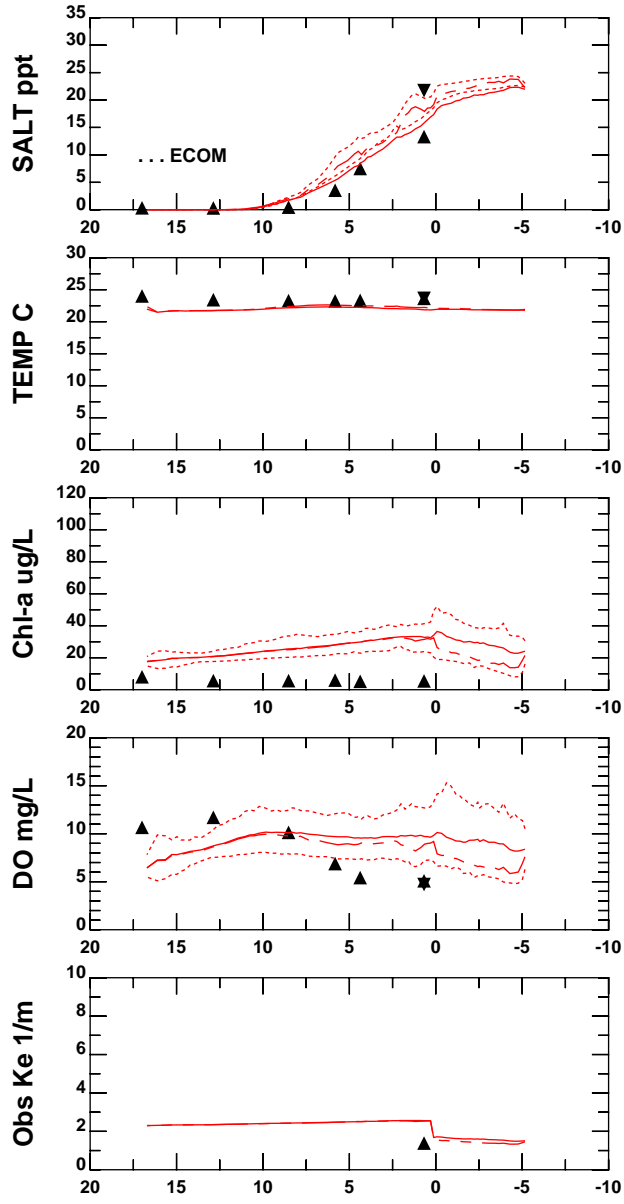
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



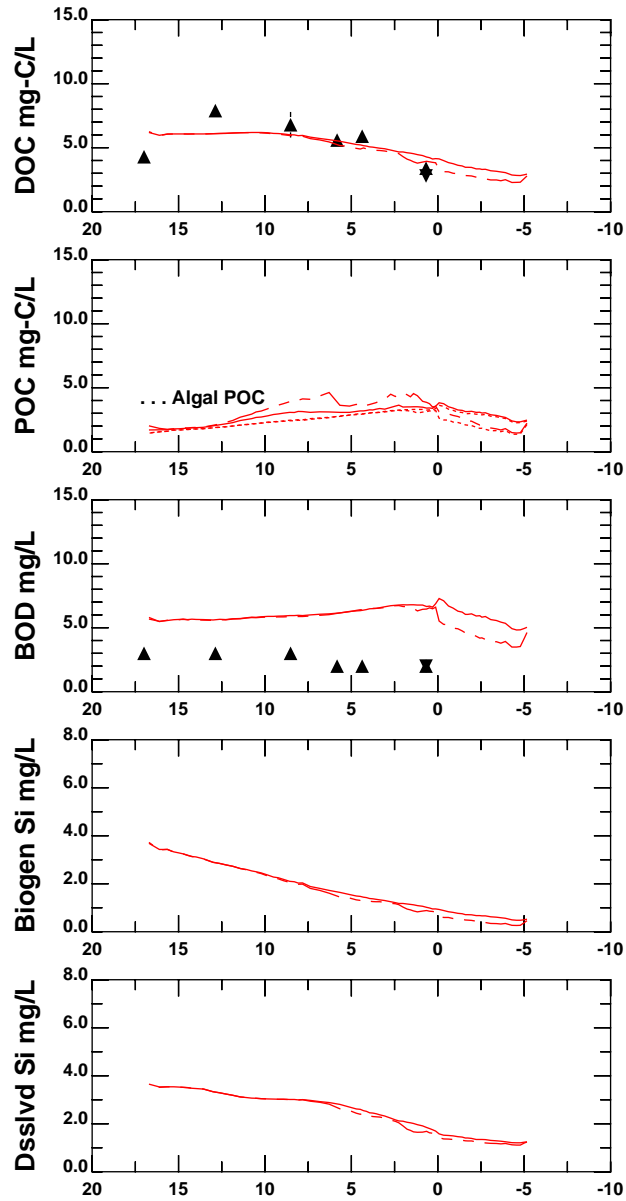
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



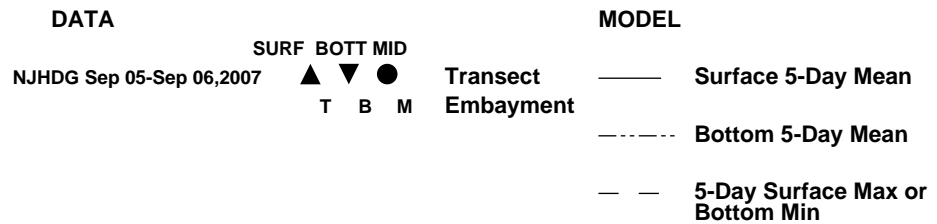
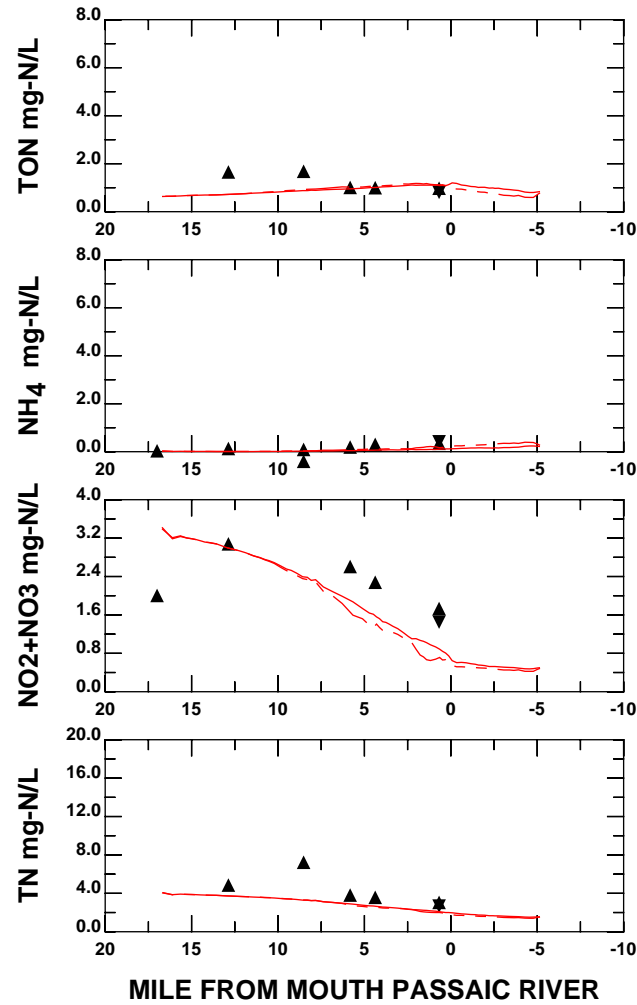
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

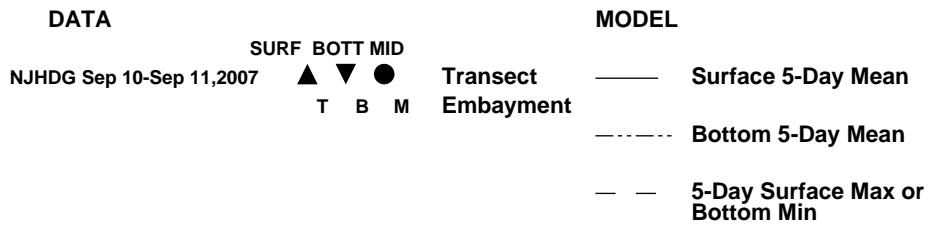
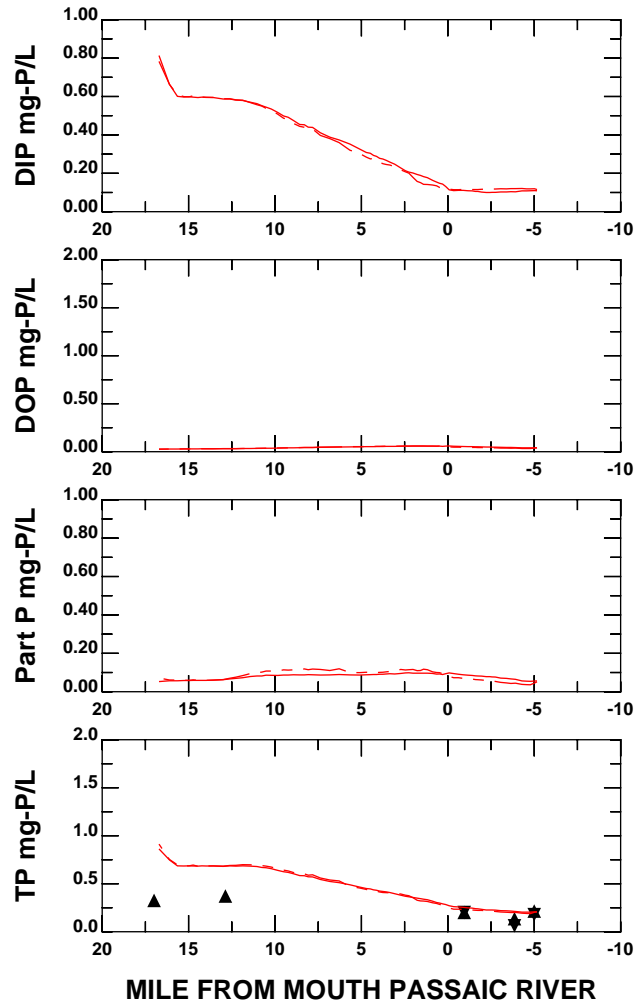
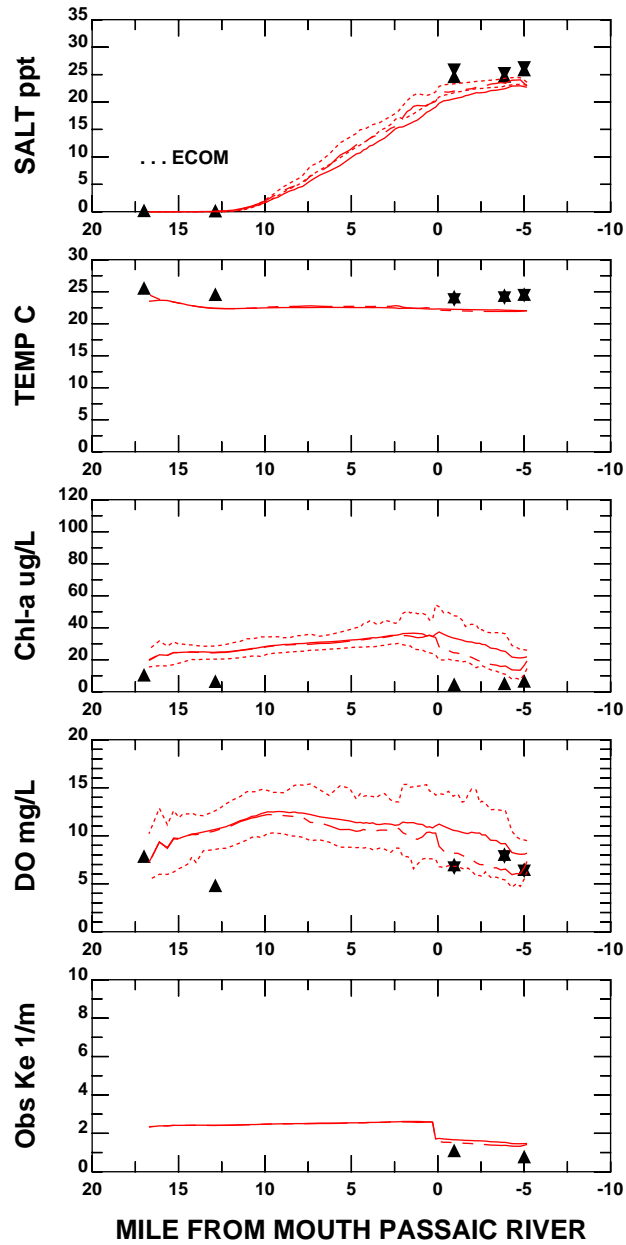


MILE FROM MOUTH PASSAIC RIVER

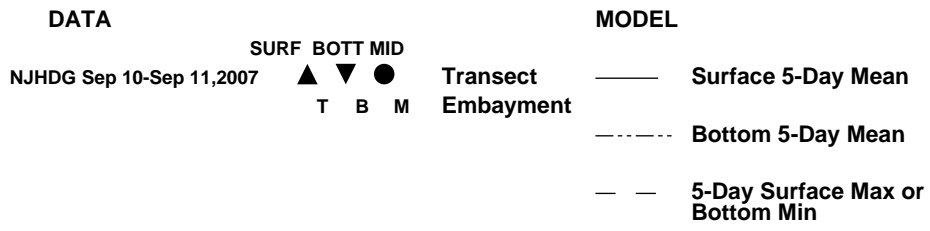
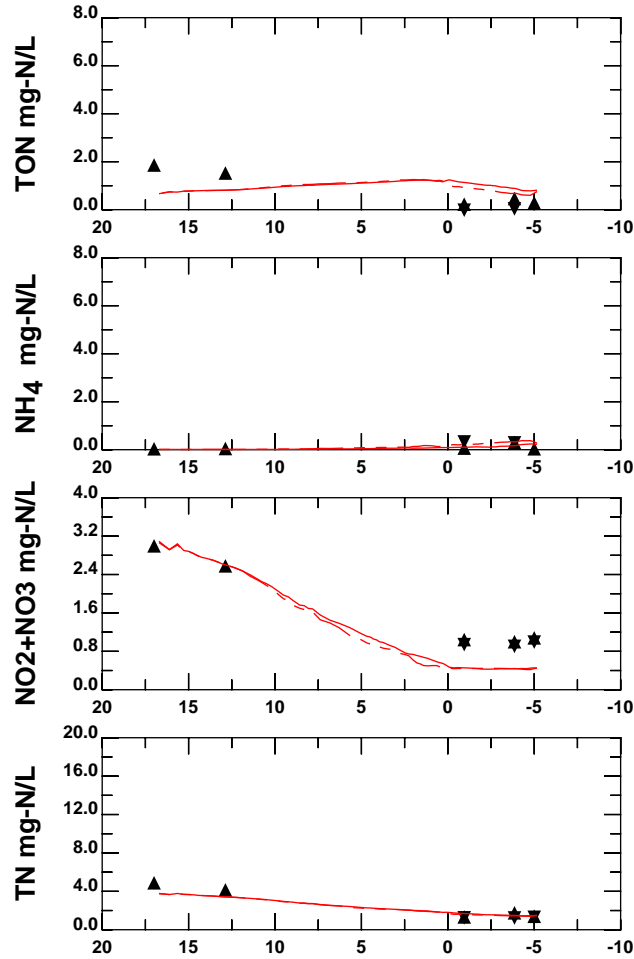
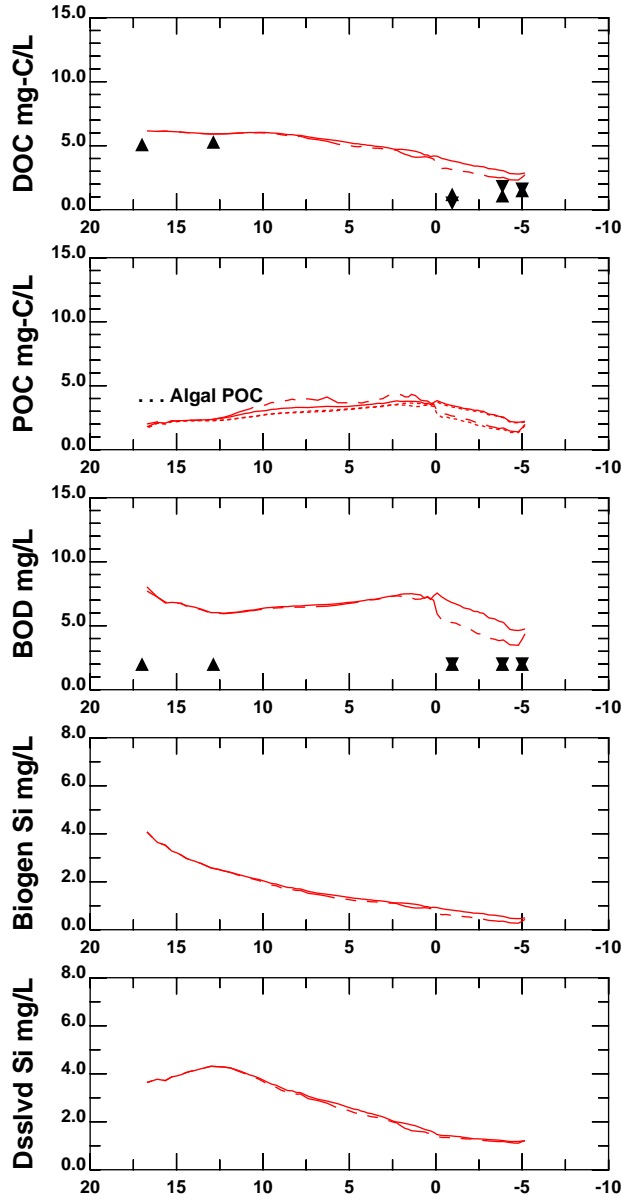
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

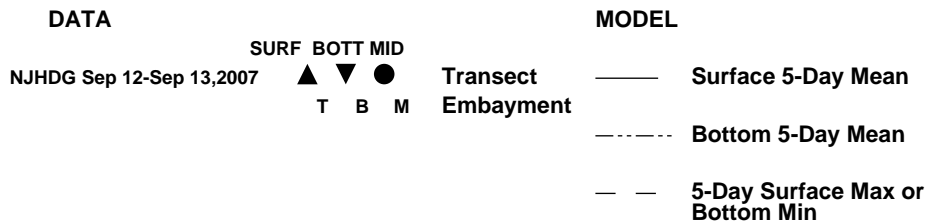
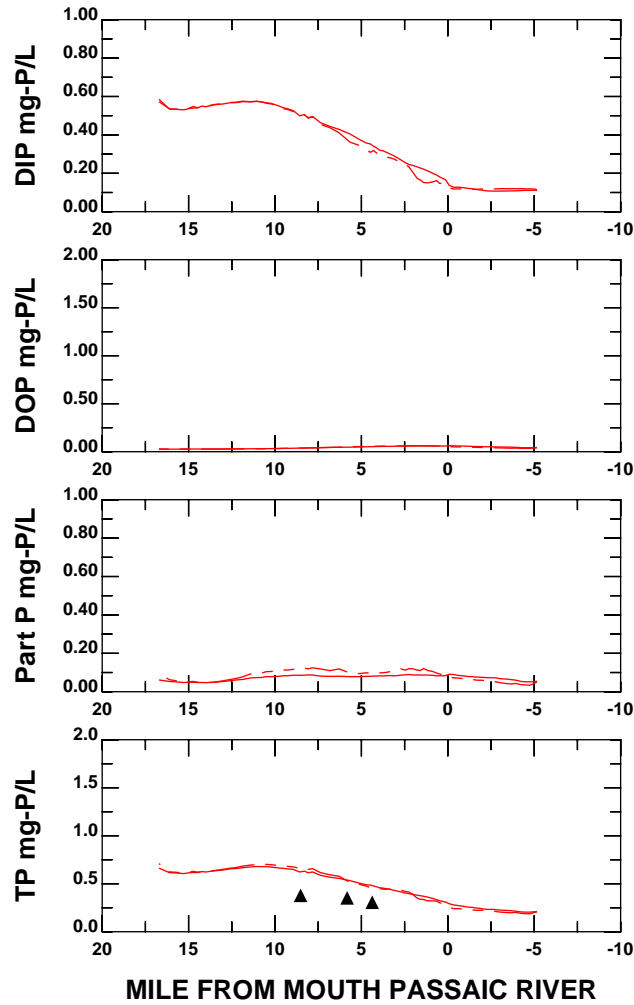
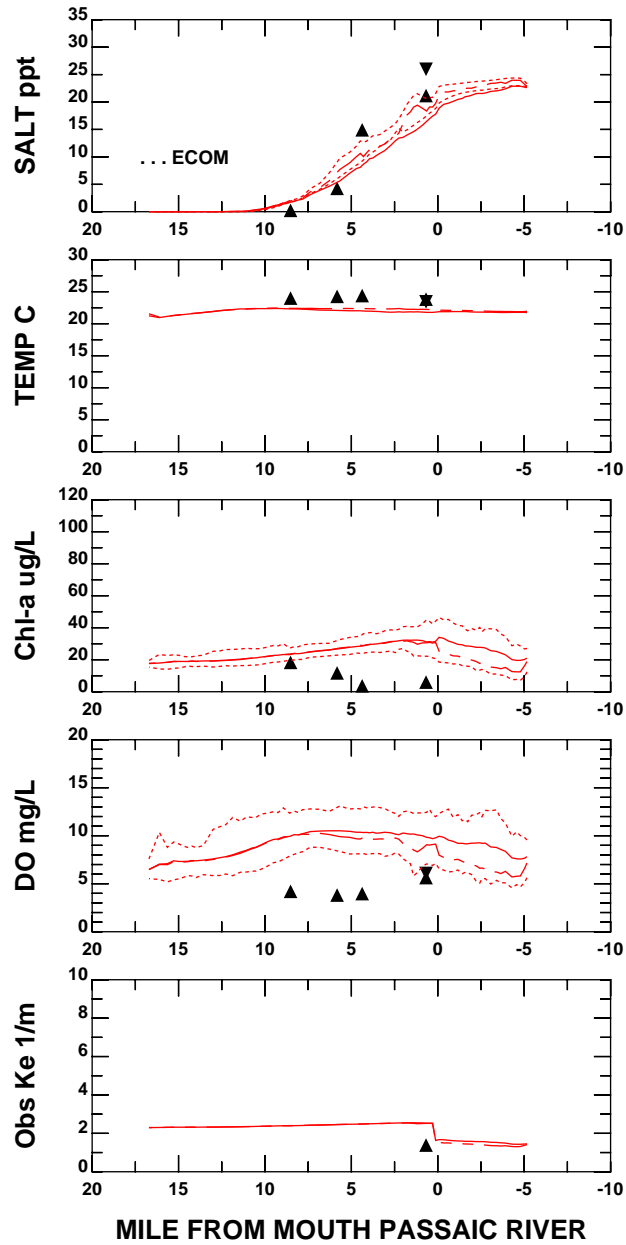




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

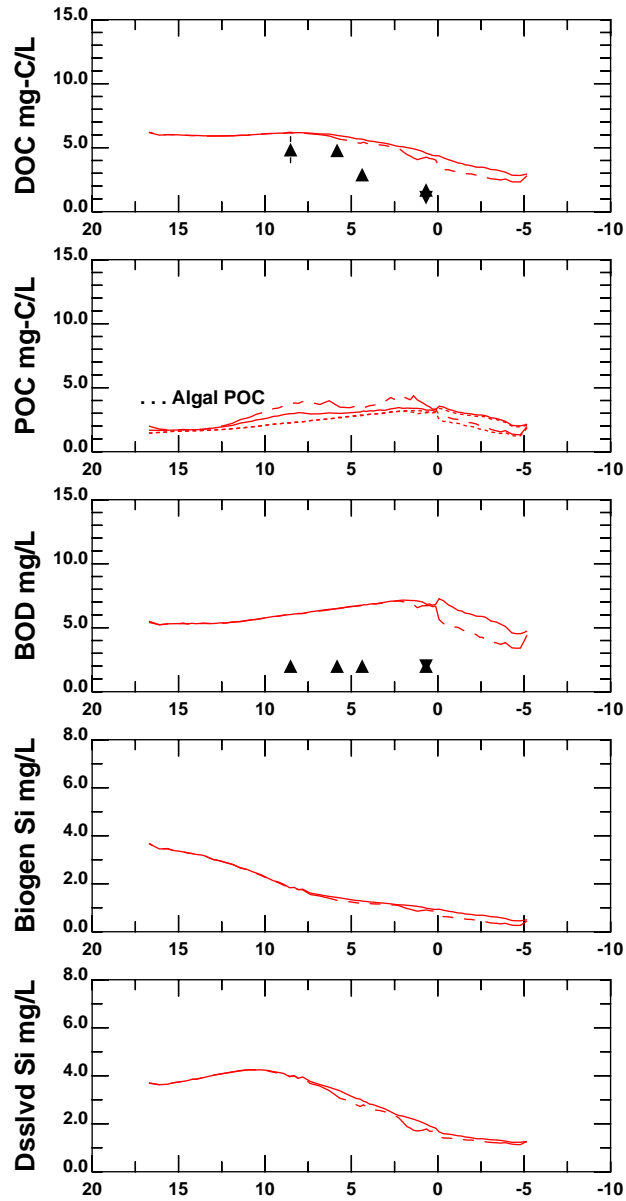


**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

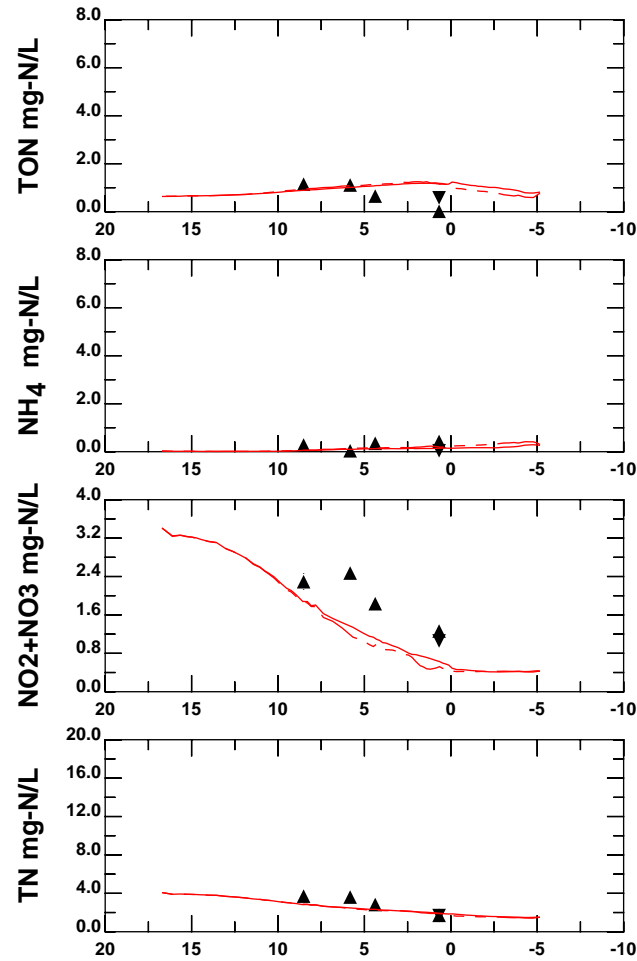




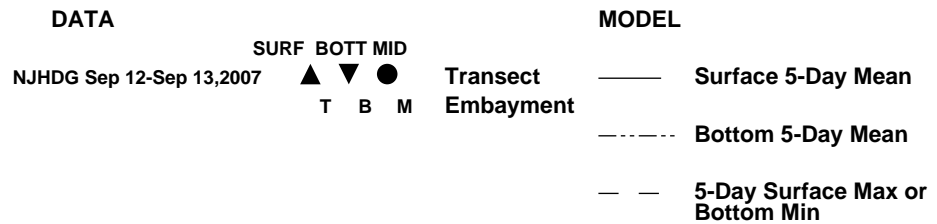
MILE FROM MOUTH PASSAIC RIVER

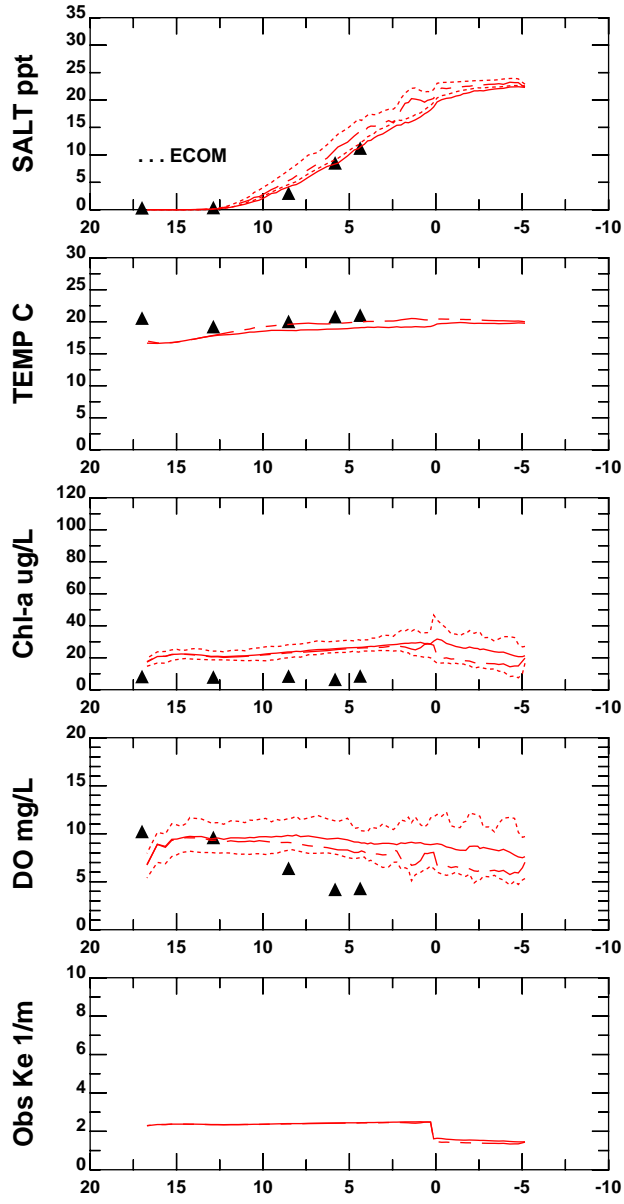
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0607

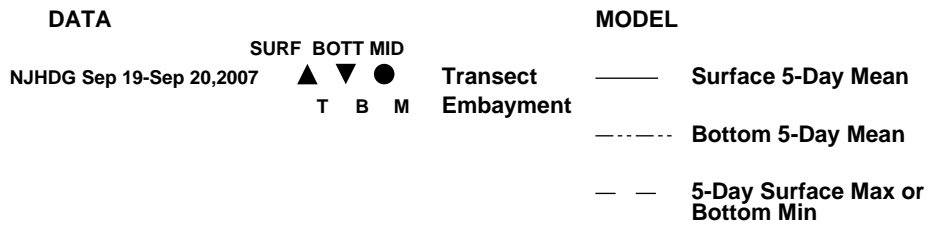
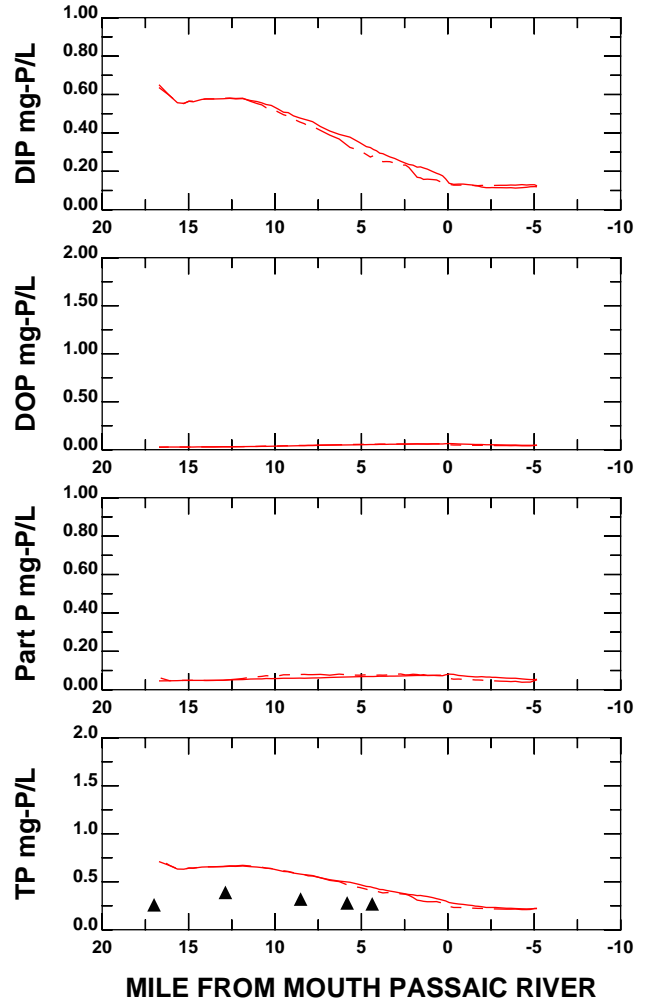


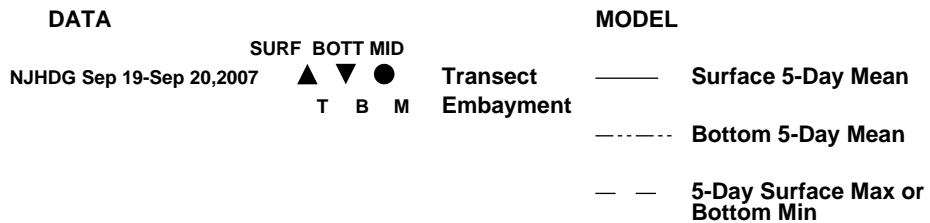
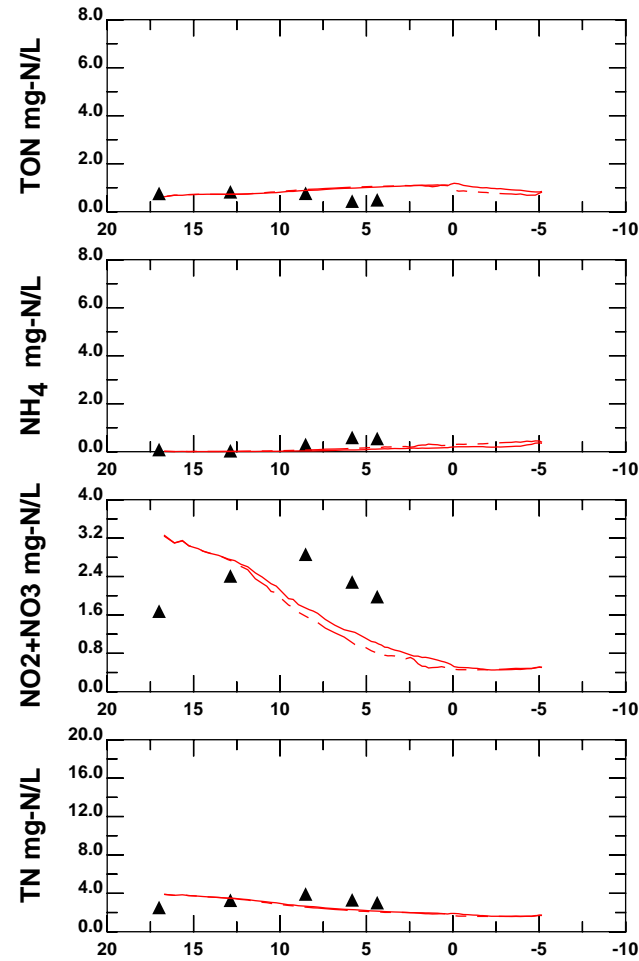
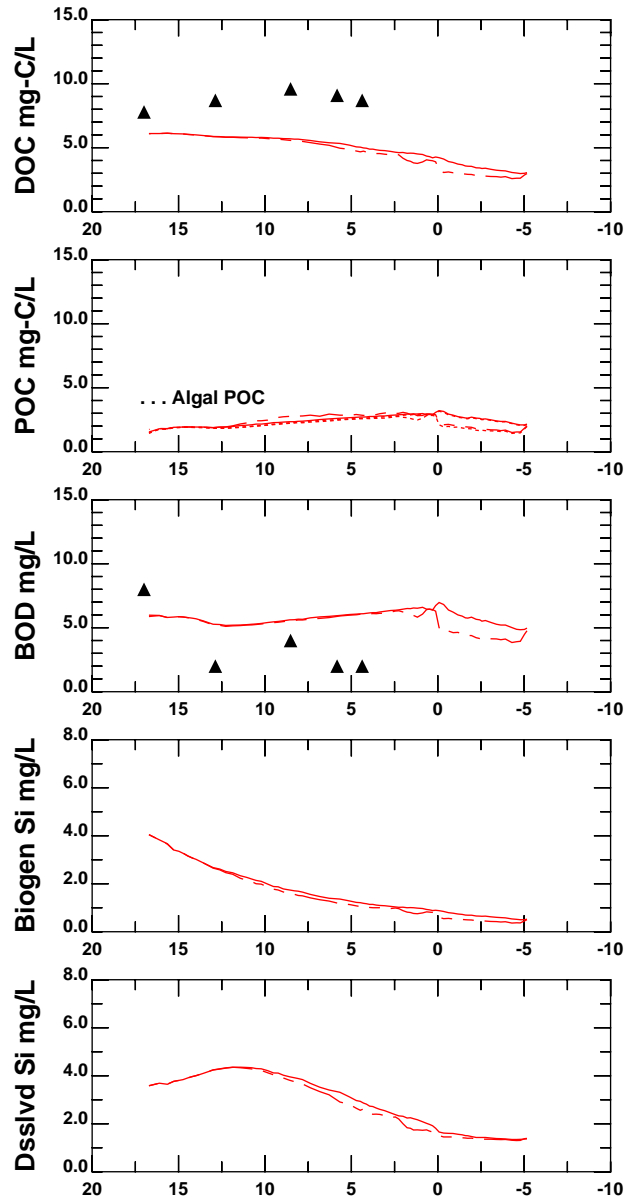
MILE FROM MOUTH PASSAIC RIVER



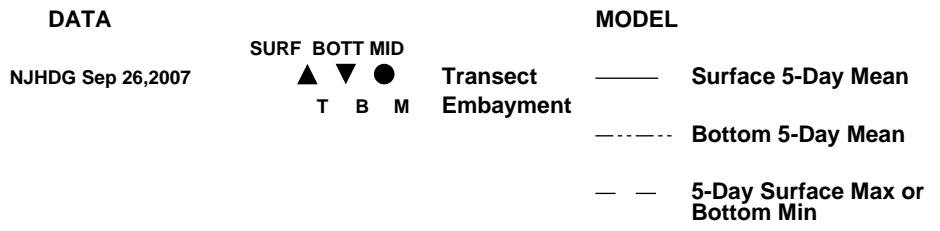
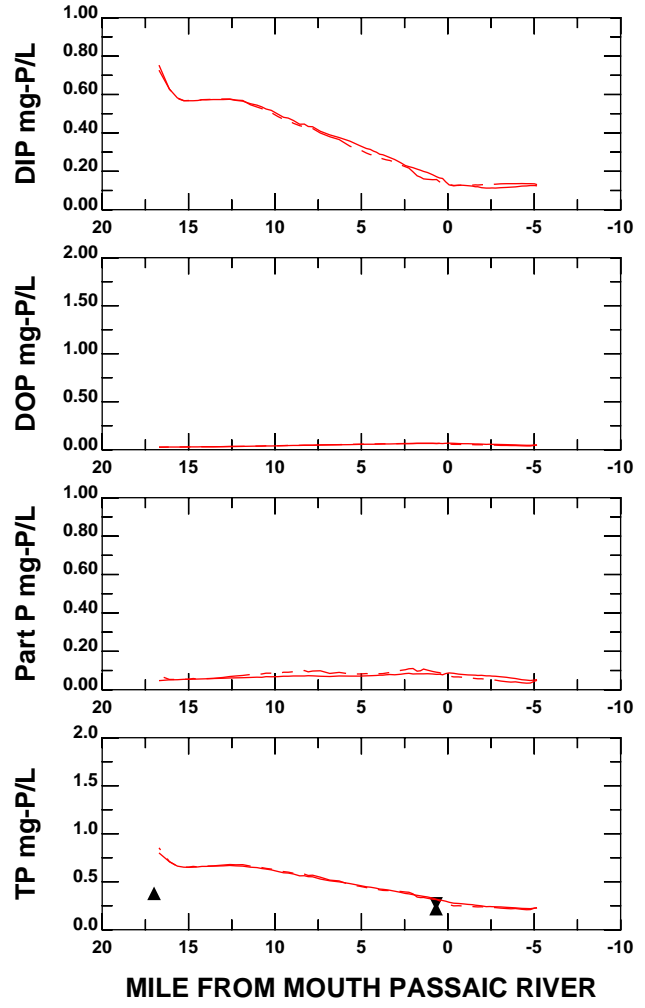
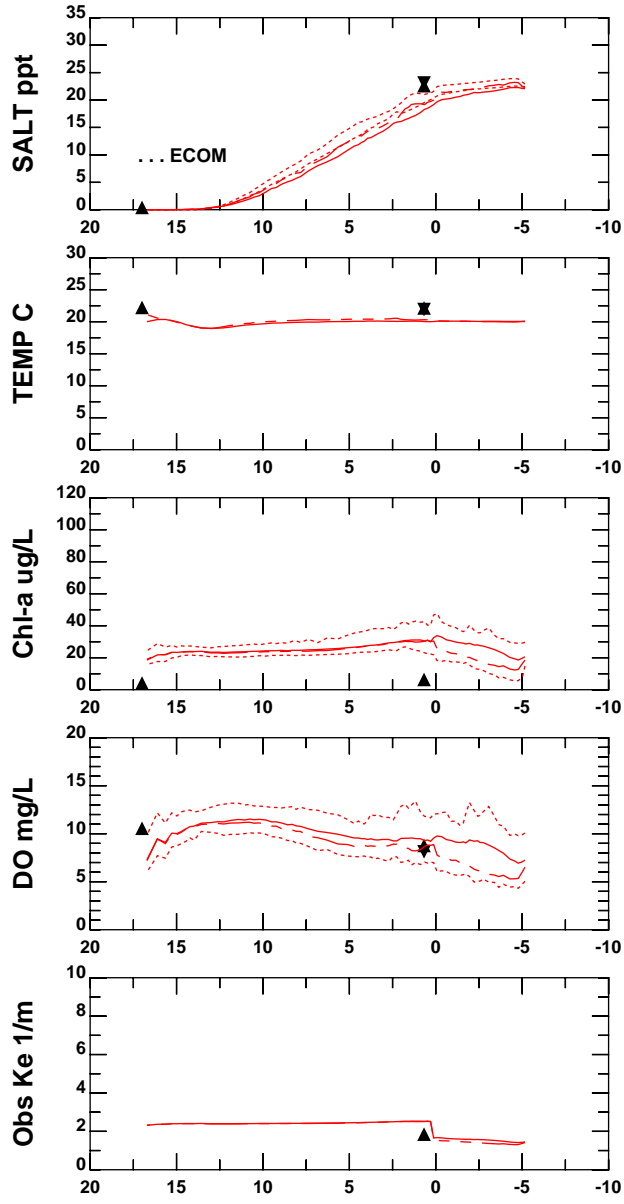


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607

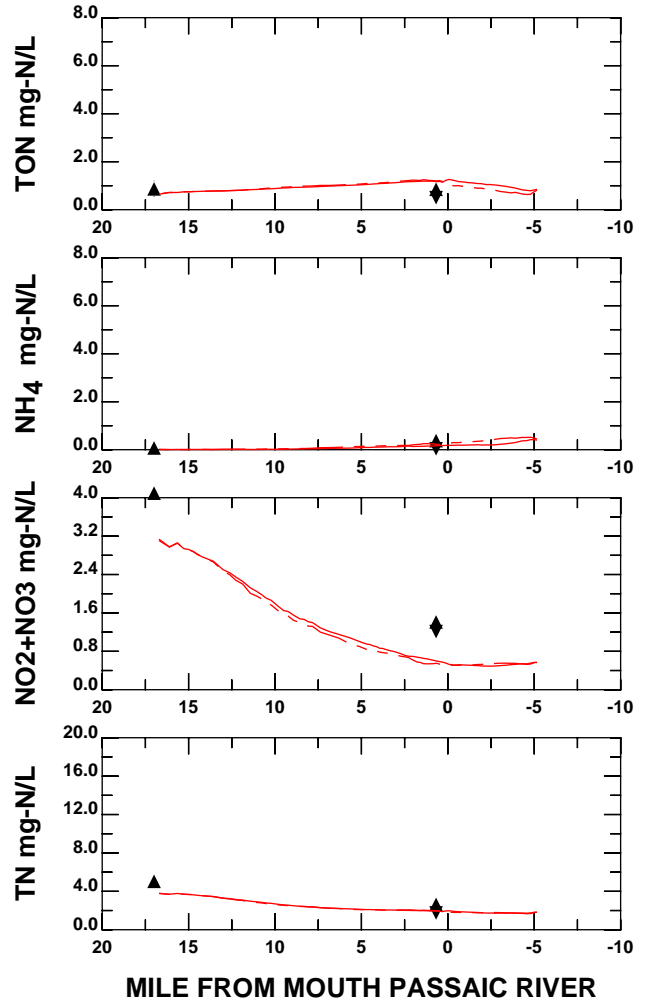
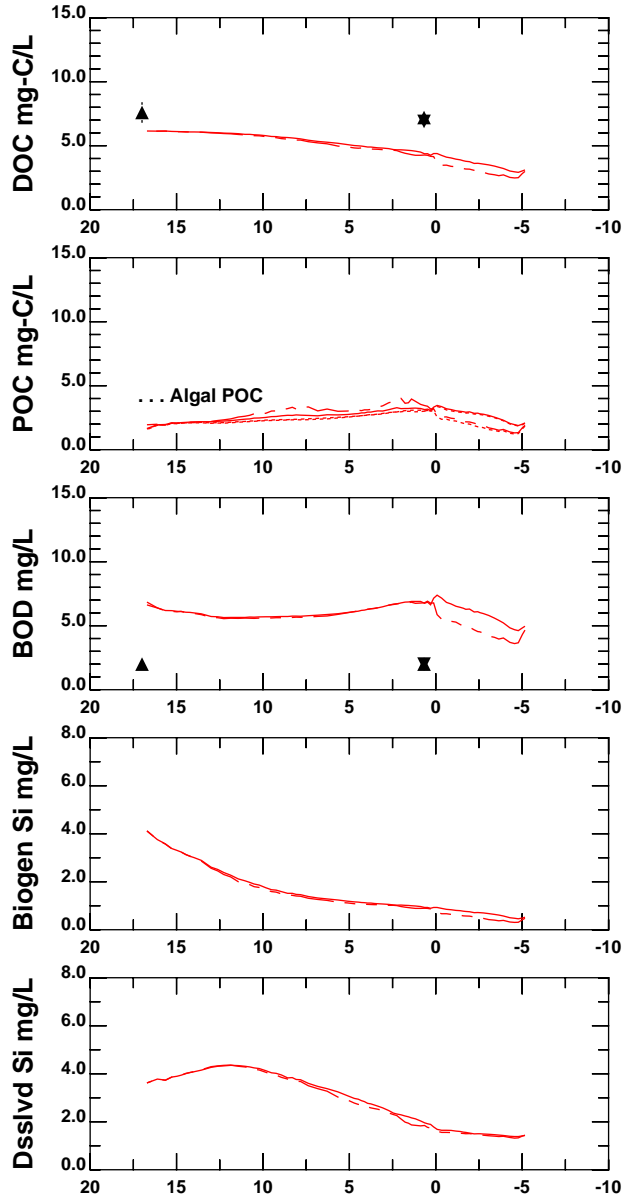




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0607



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



DATA  
NJHGD Sep 26, 2007

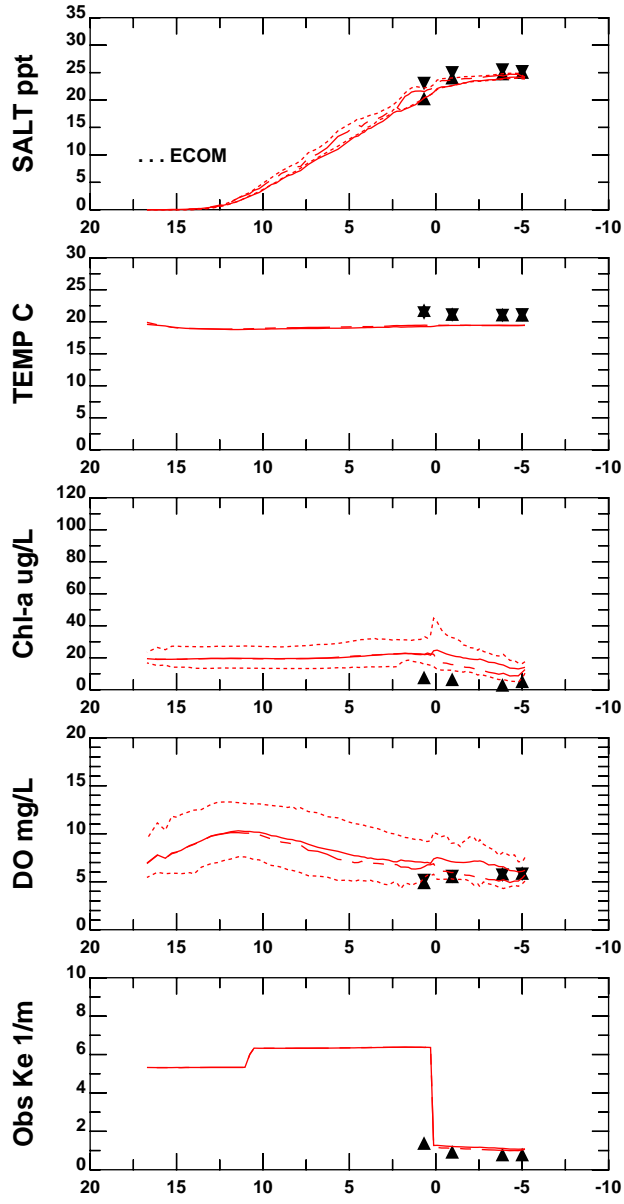
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

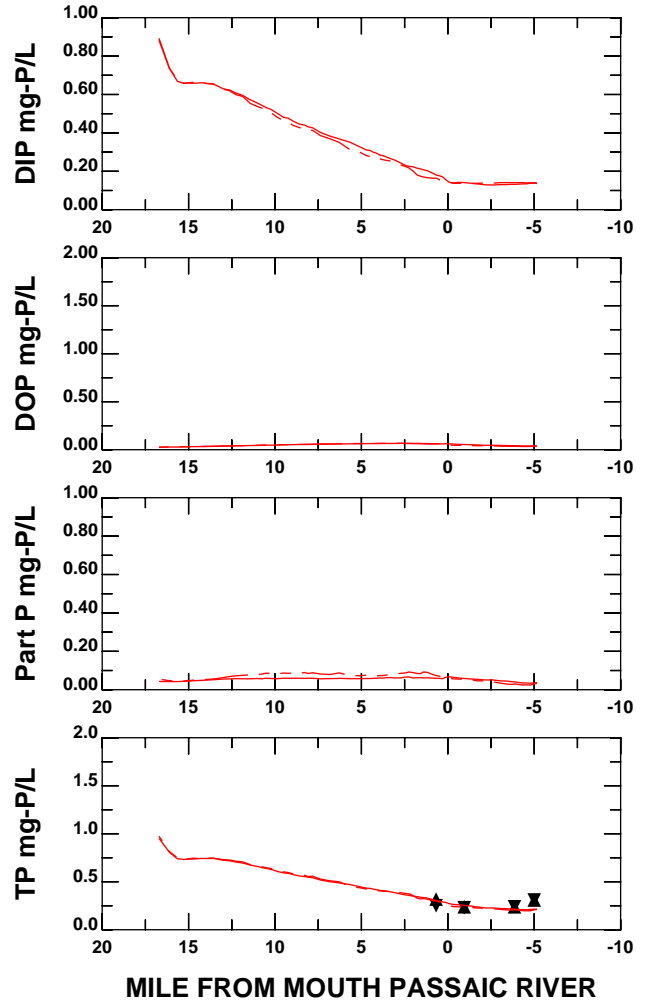
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0607



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



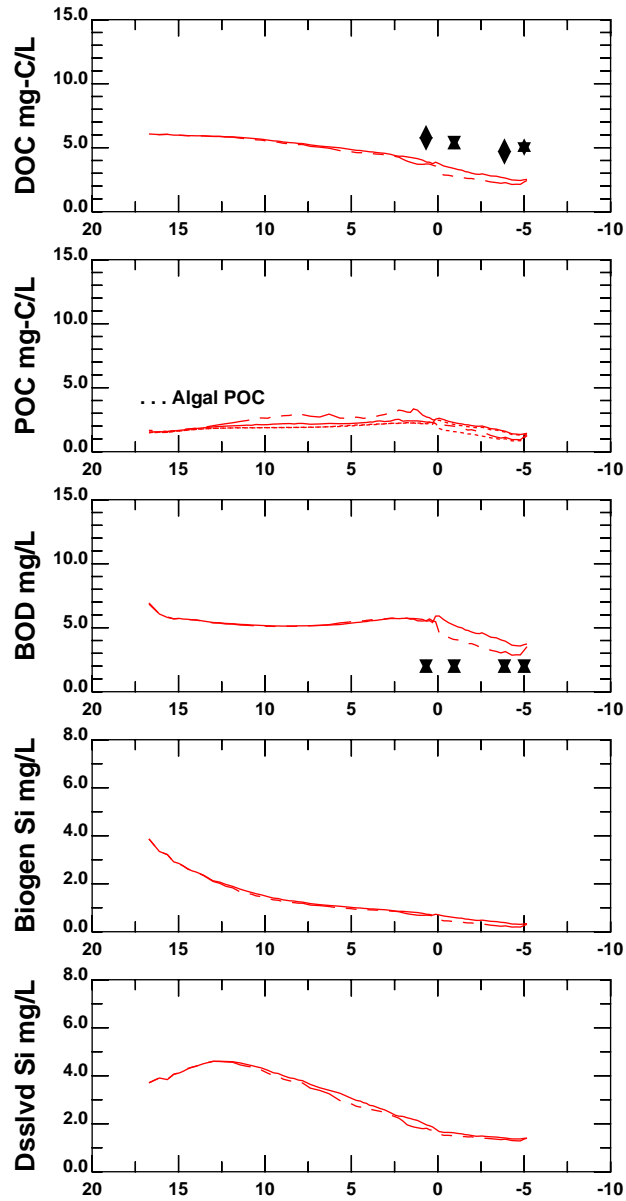
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Oct 03,2007

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

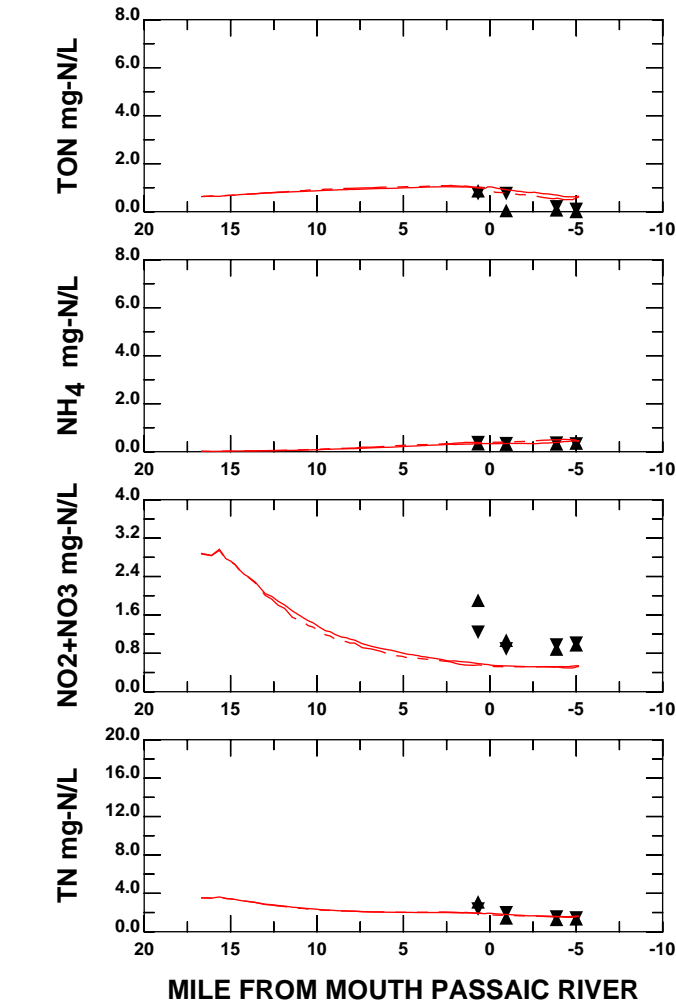
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708

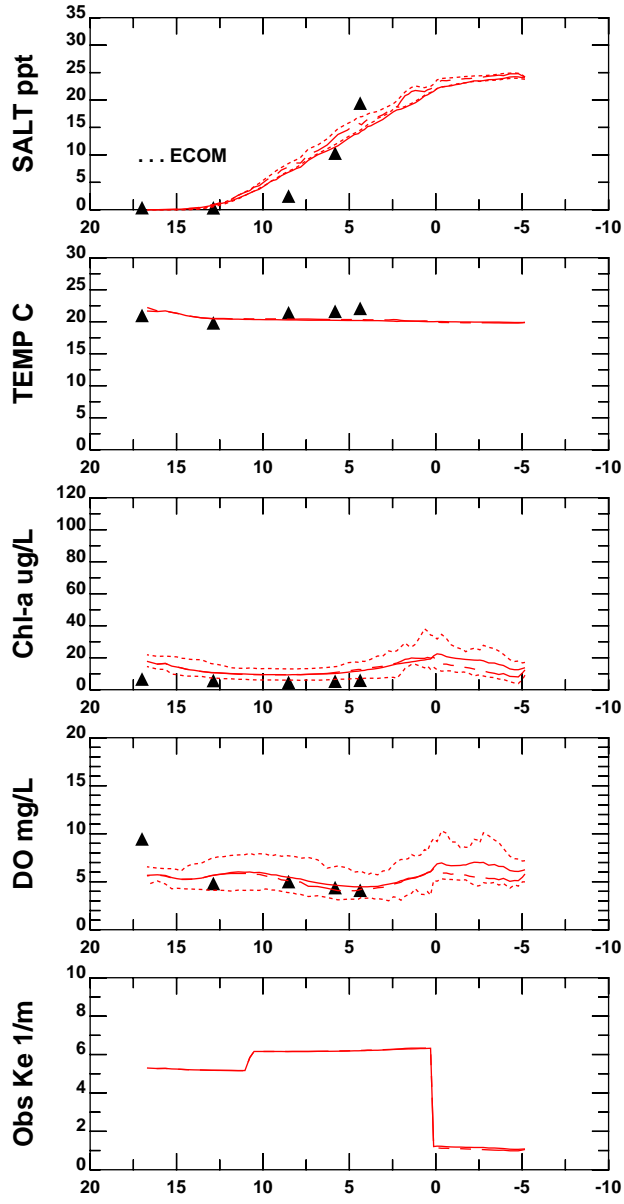


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Oct 03,2007

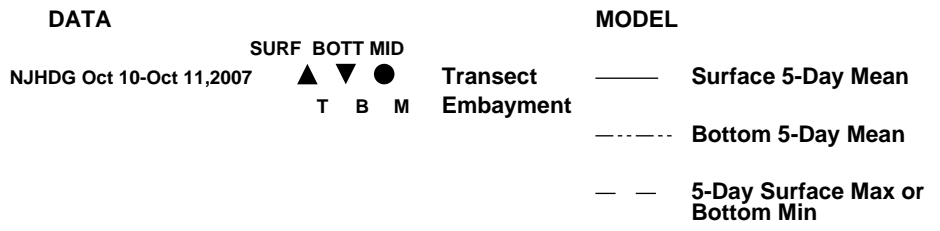
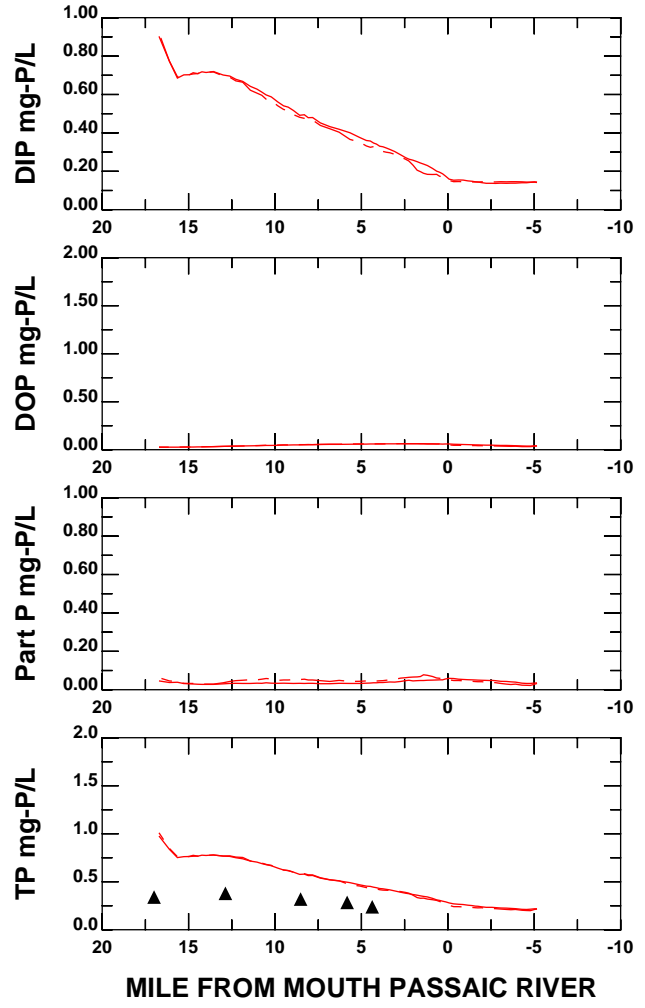
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

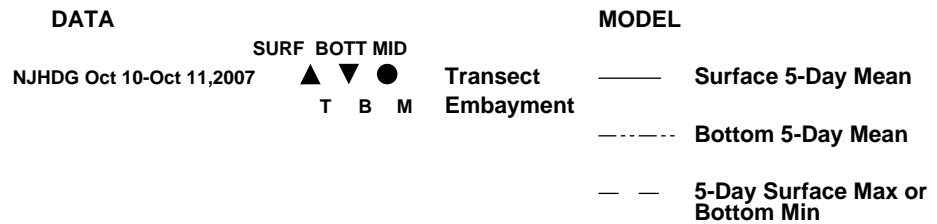
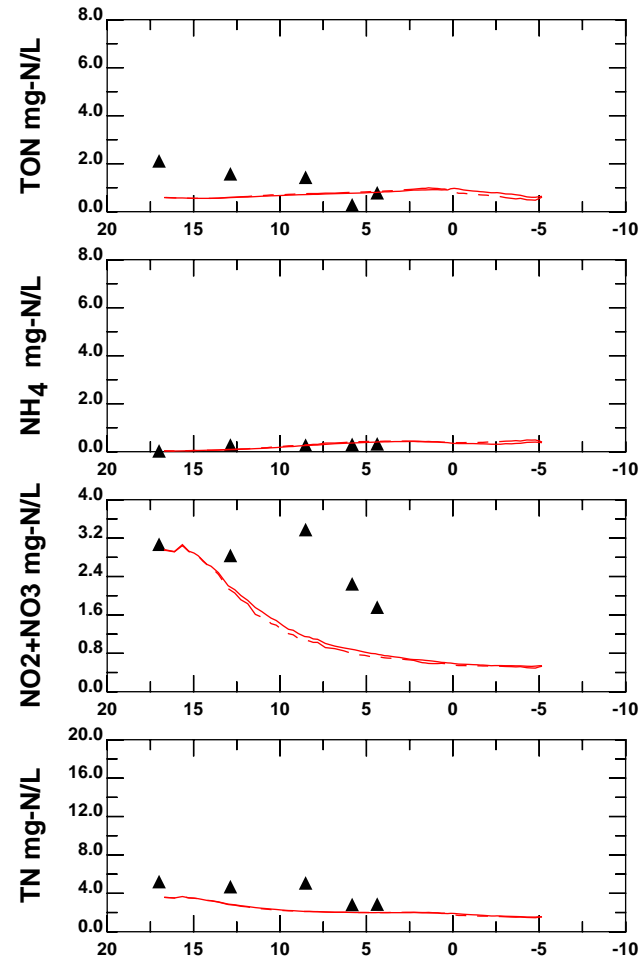
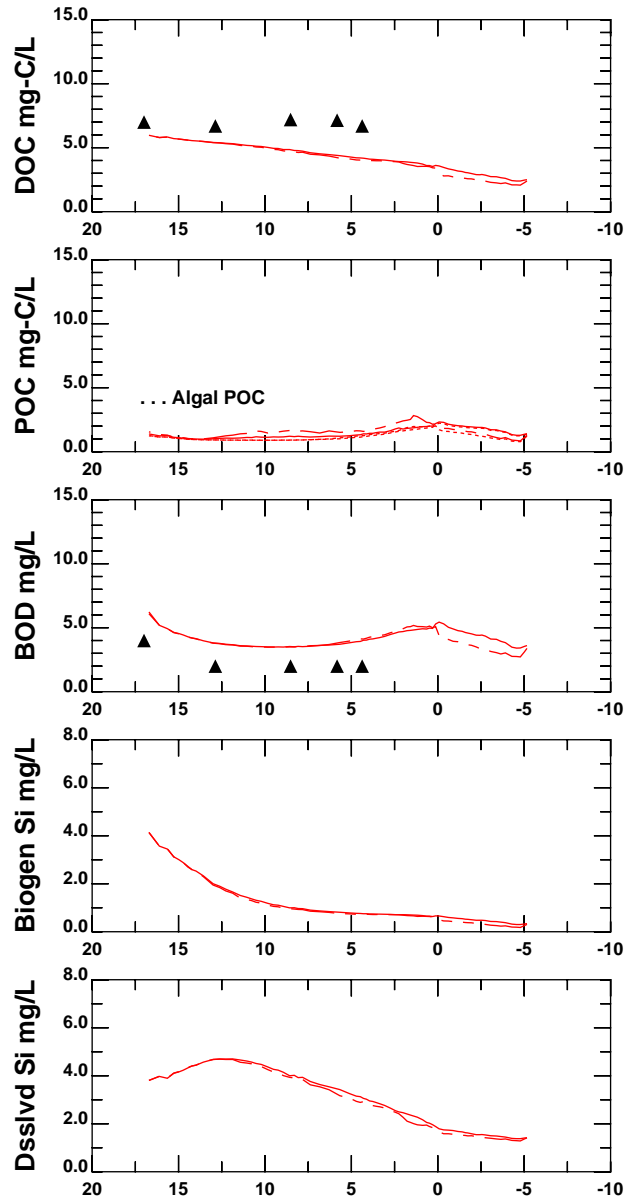


MILE FROM MOUTH PASSAIC RIVER

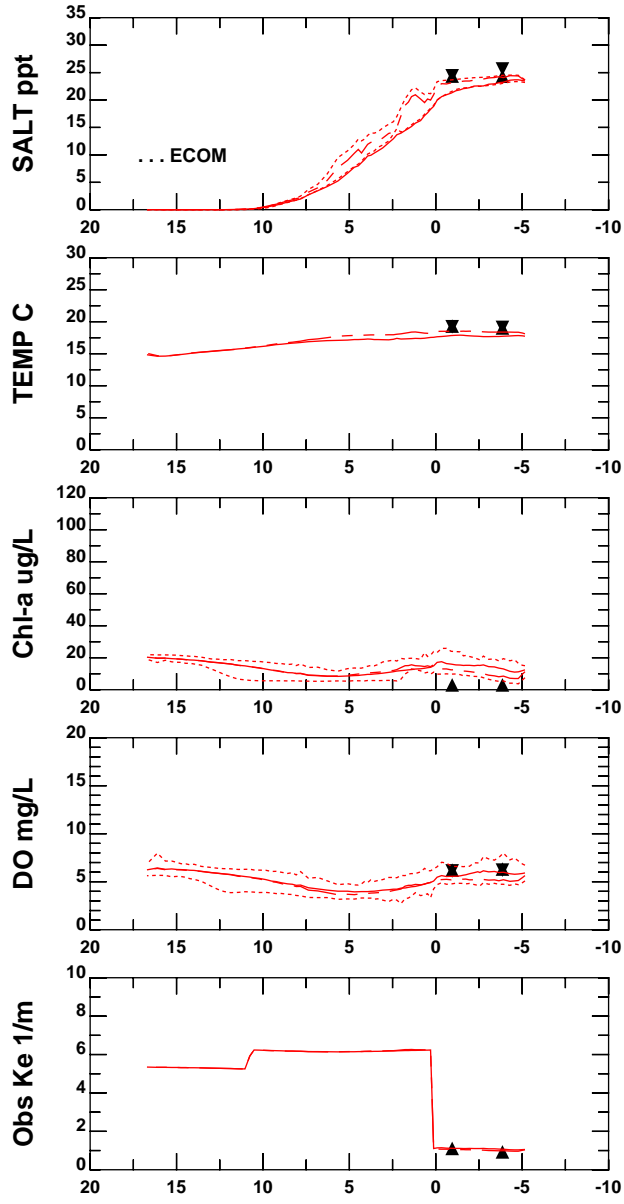
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708





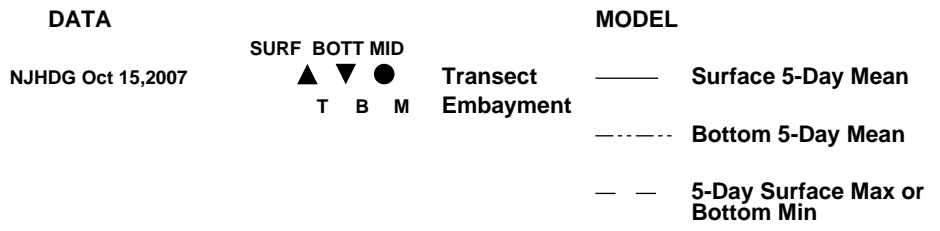
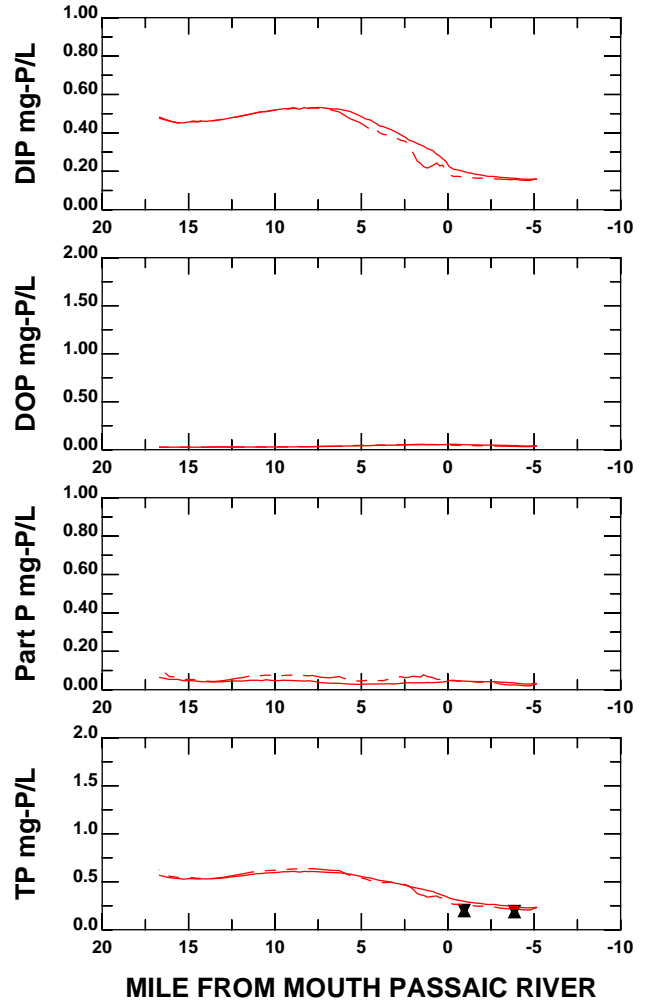


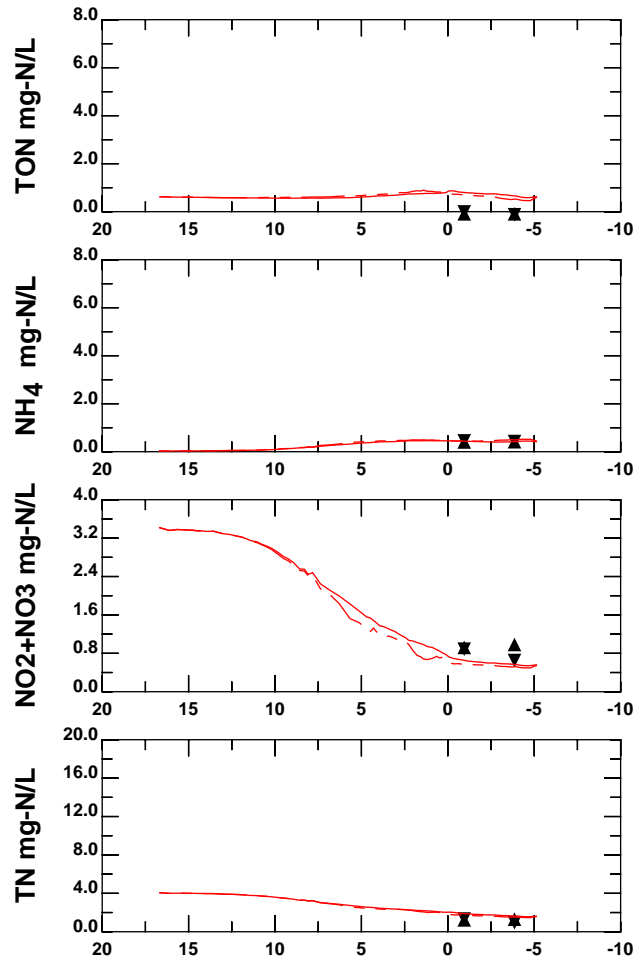
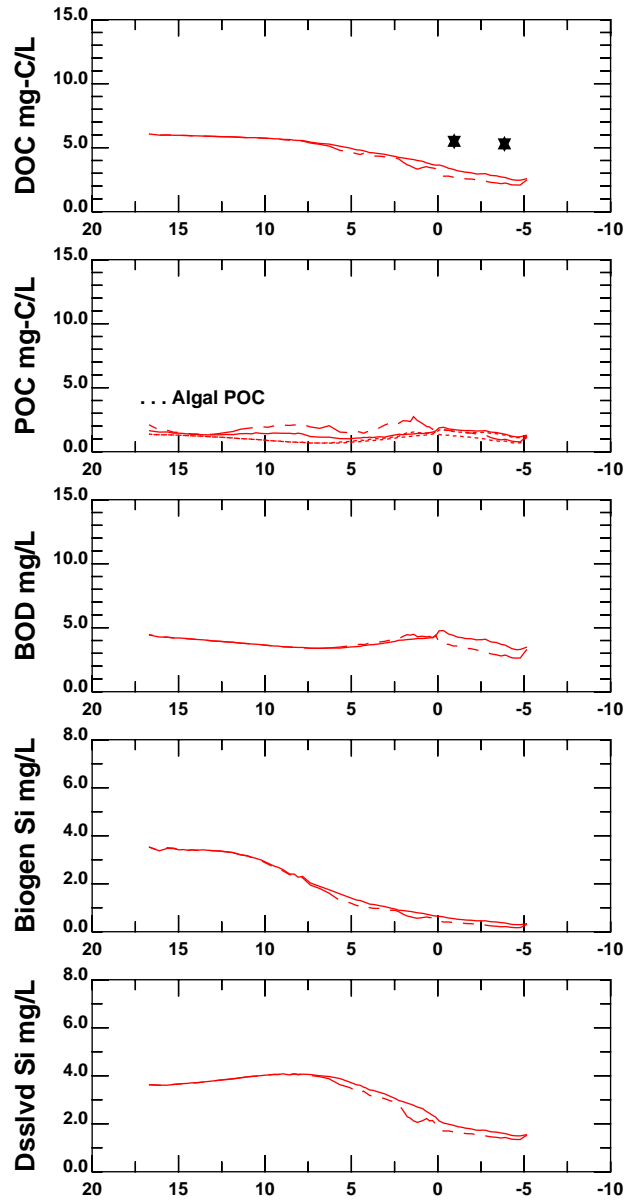
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708





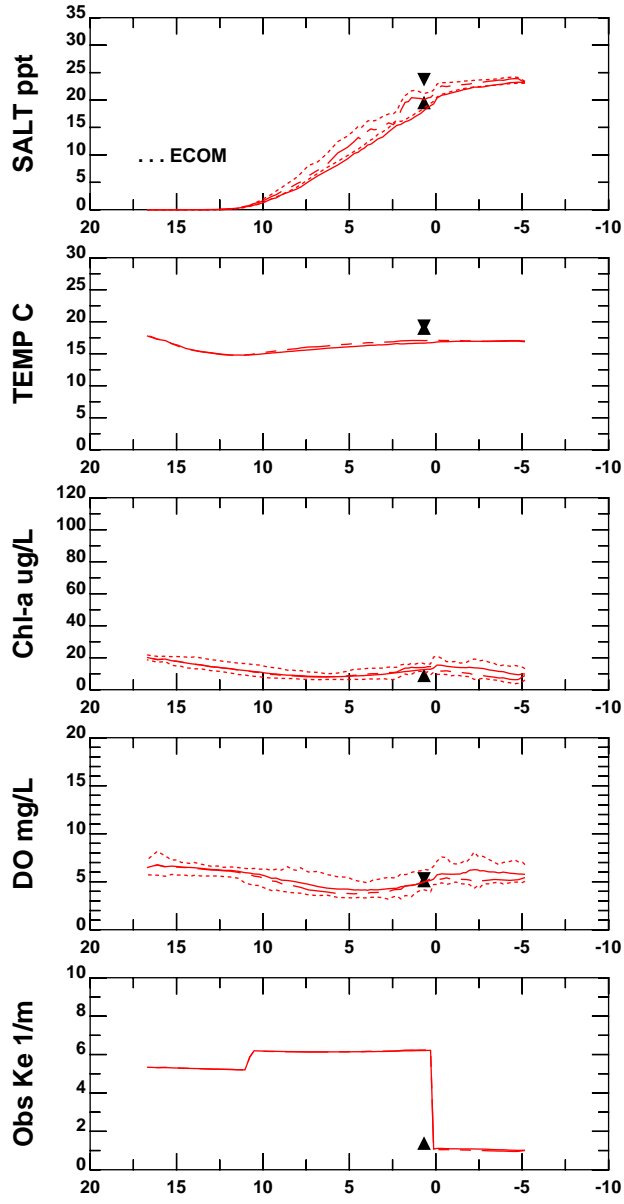
DATA  
NJHDG Oct 15, 2007

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

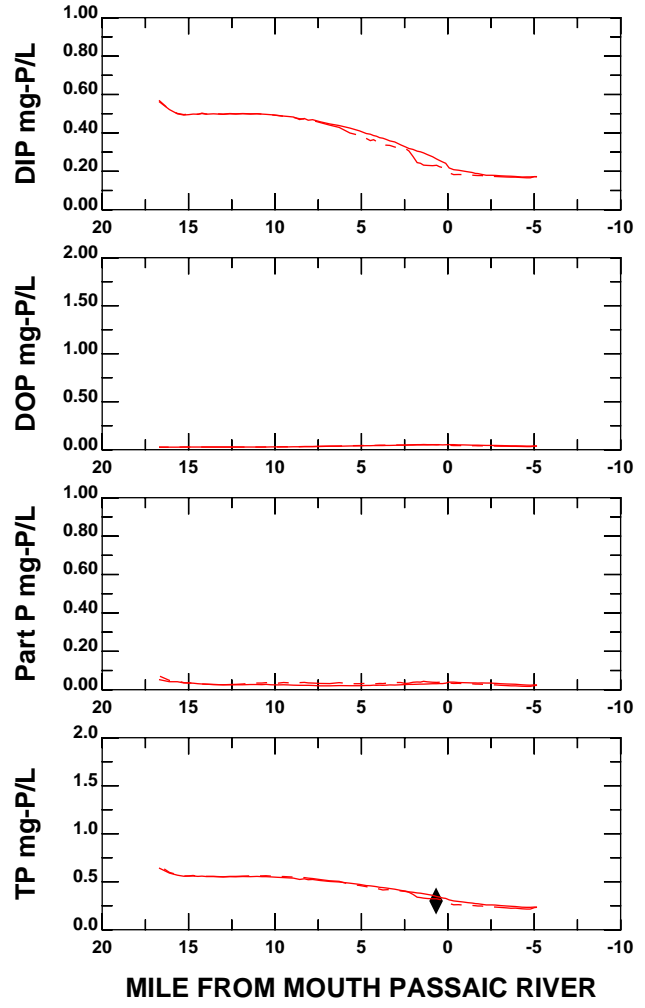
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

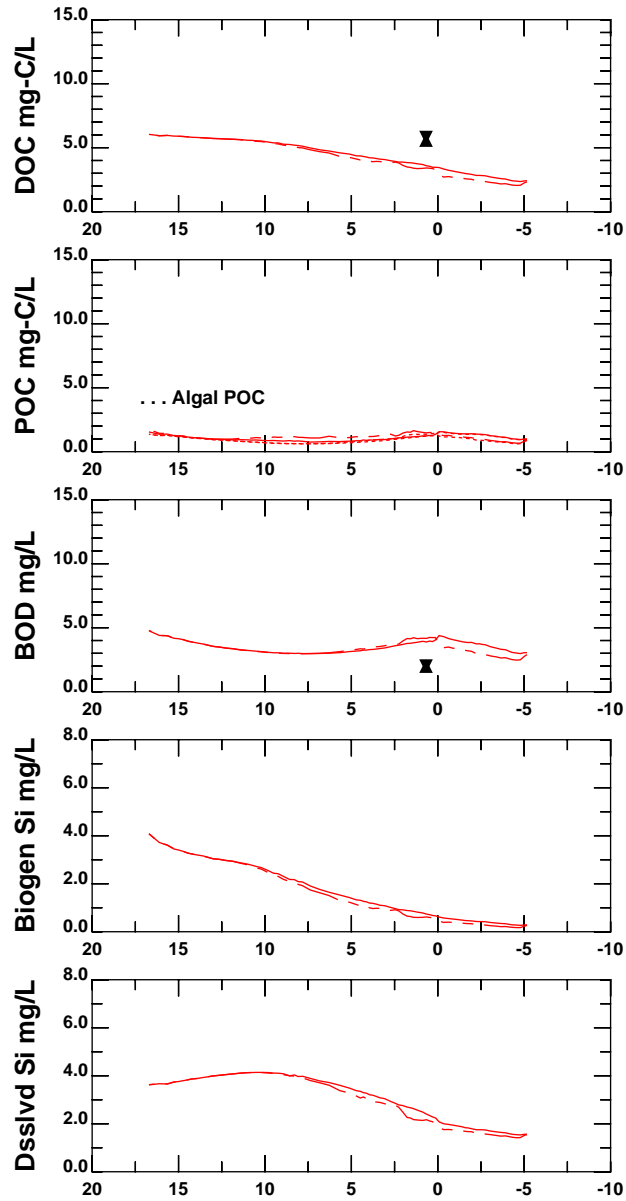


**DATA**  
 NJHDG Oct 17,2007

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

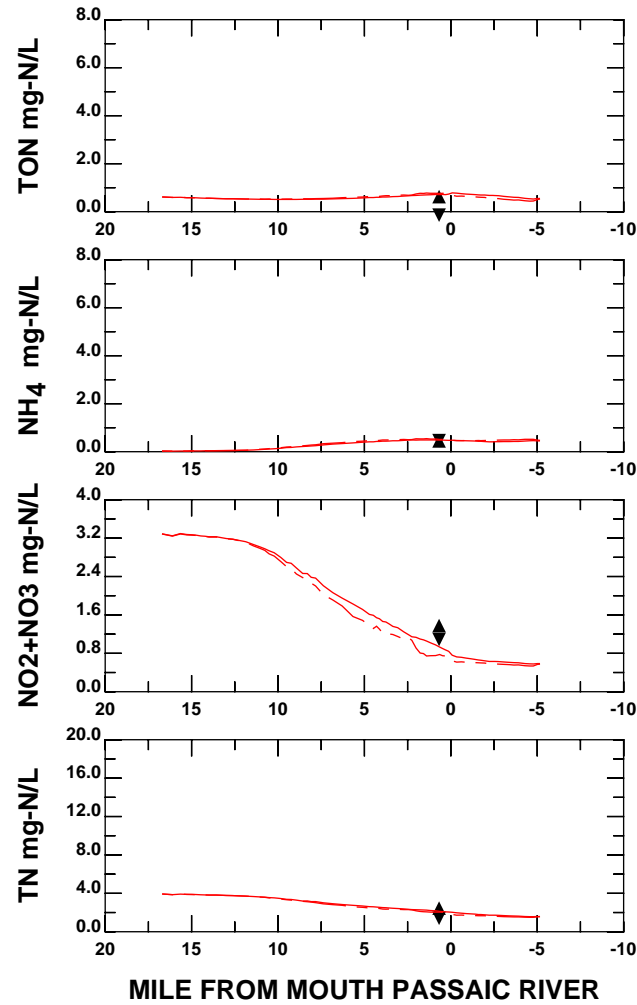
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Oct 17,2007

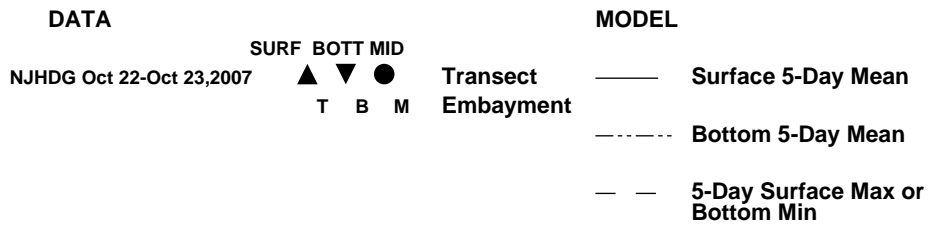
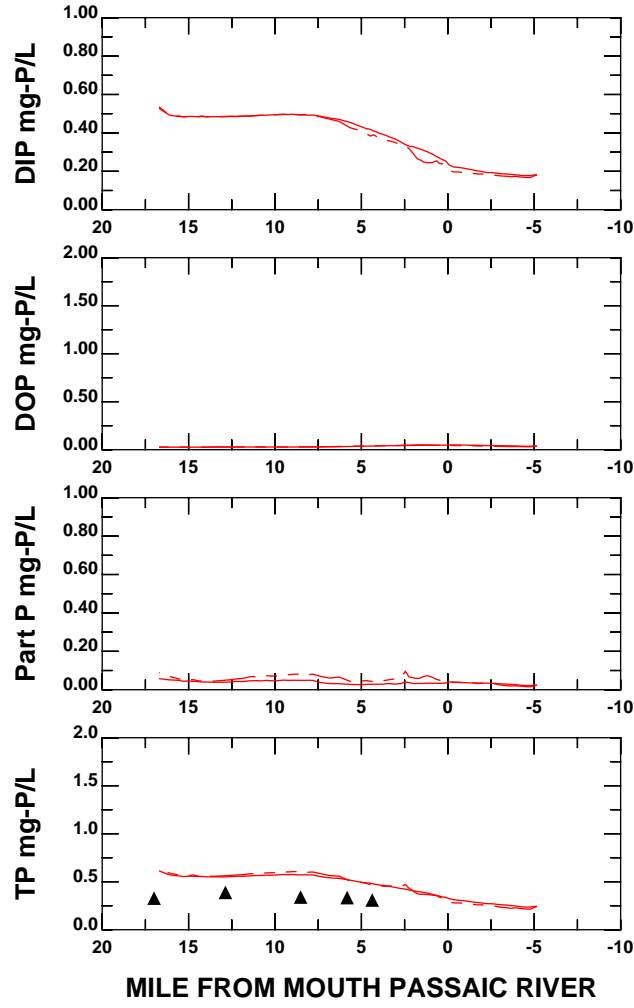
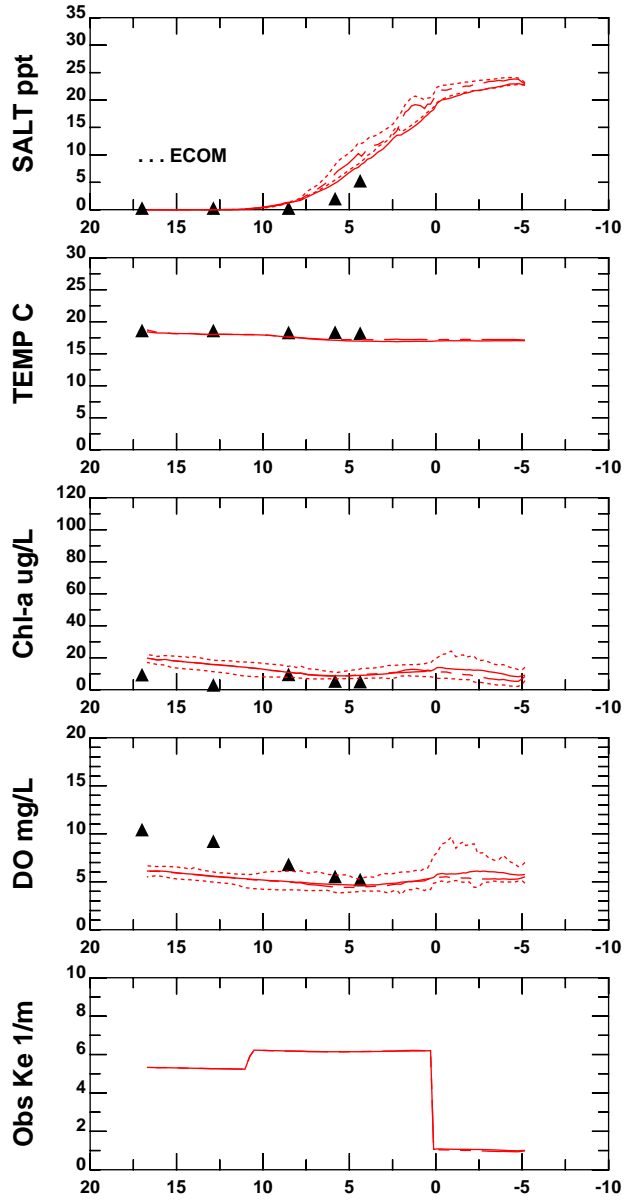
SURF BOTT MID

▲ ▼ ●  
T B M

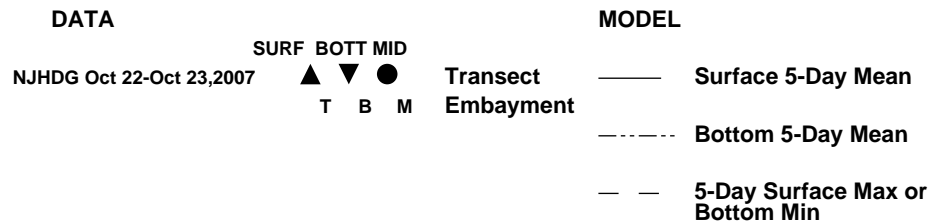
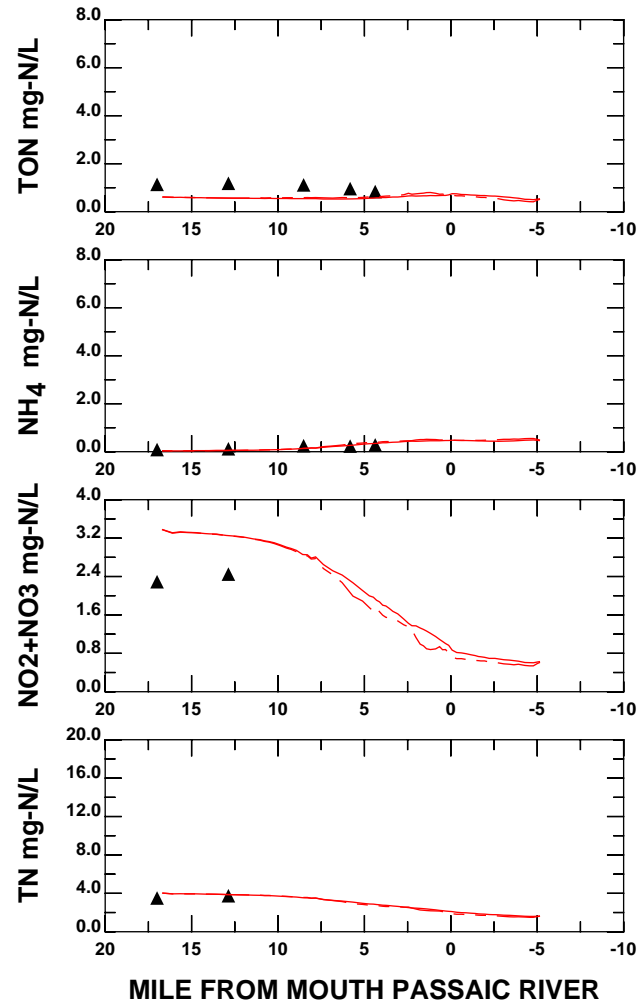
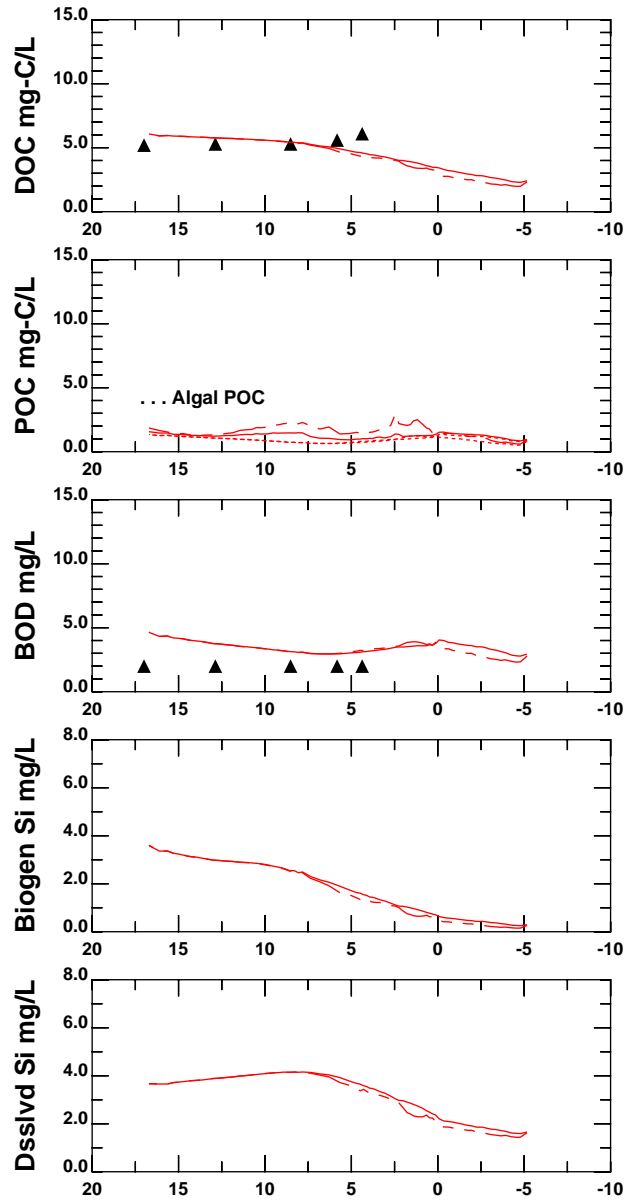
Transect  
Embayment

#### MODEL

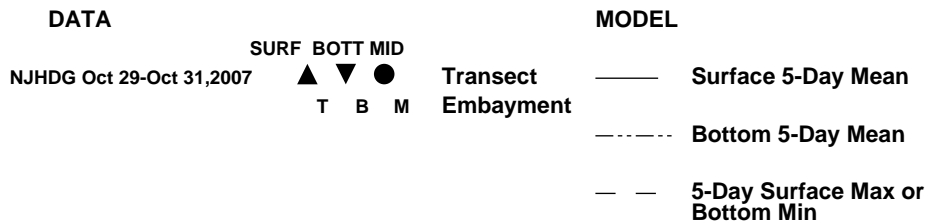
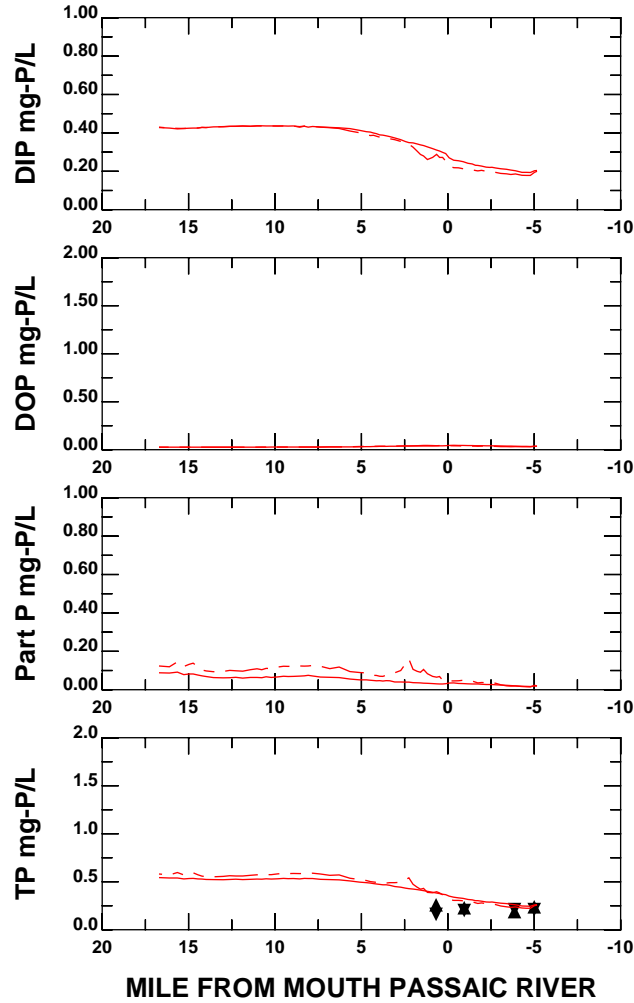
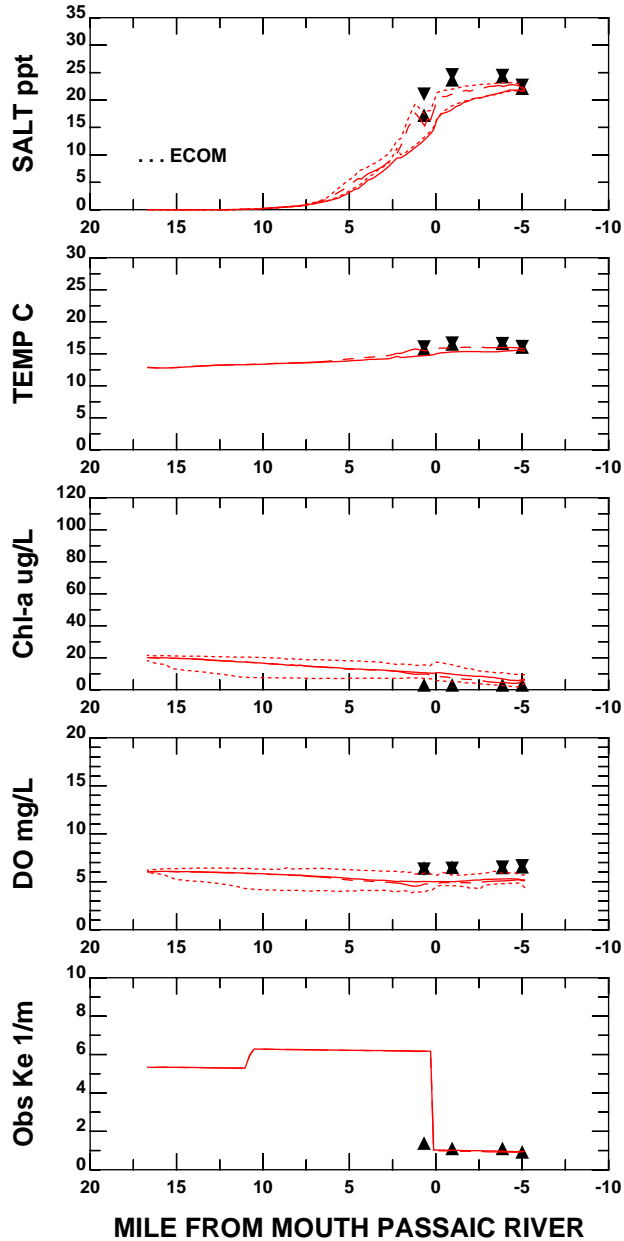
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

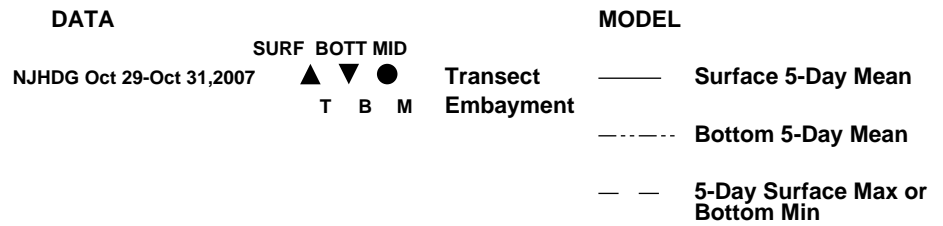
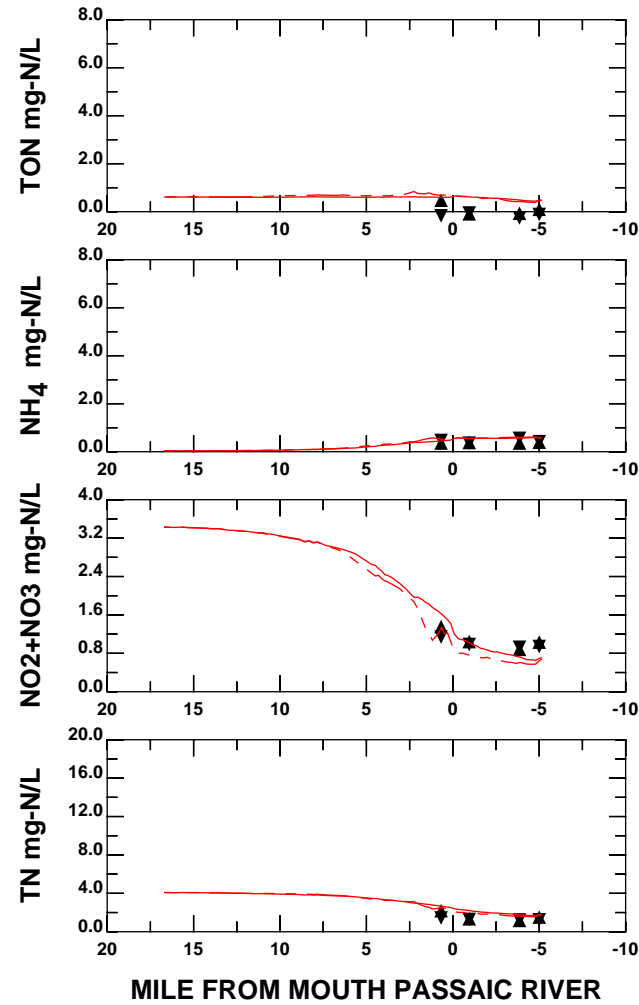
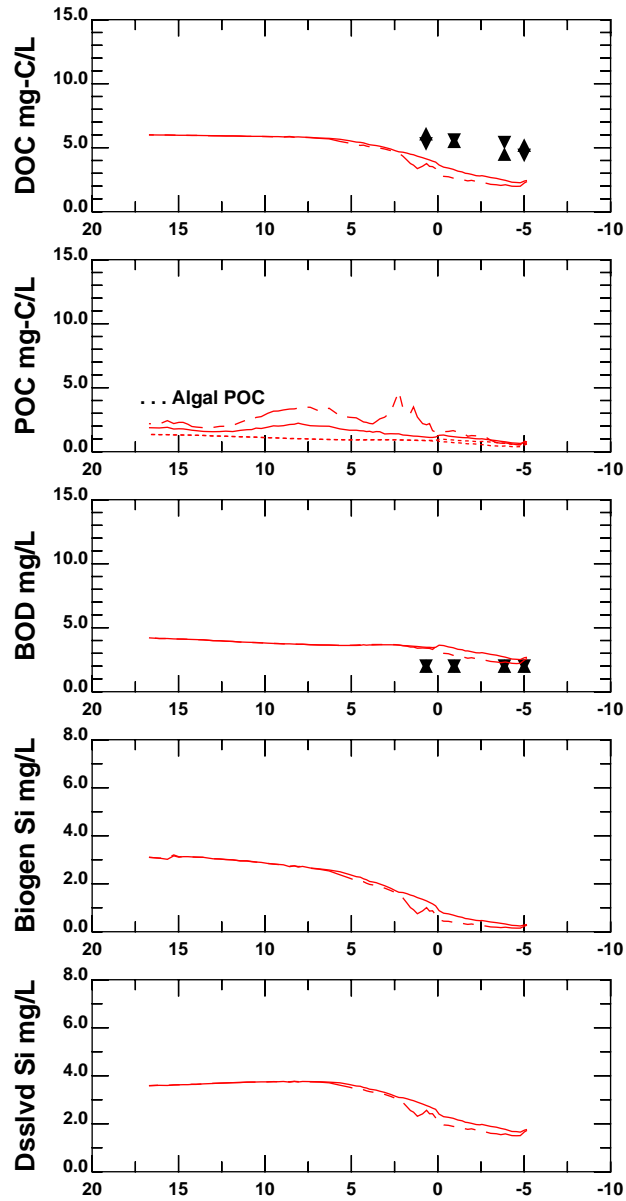


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

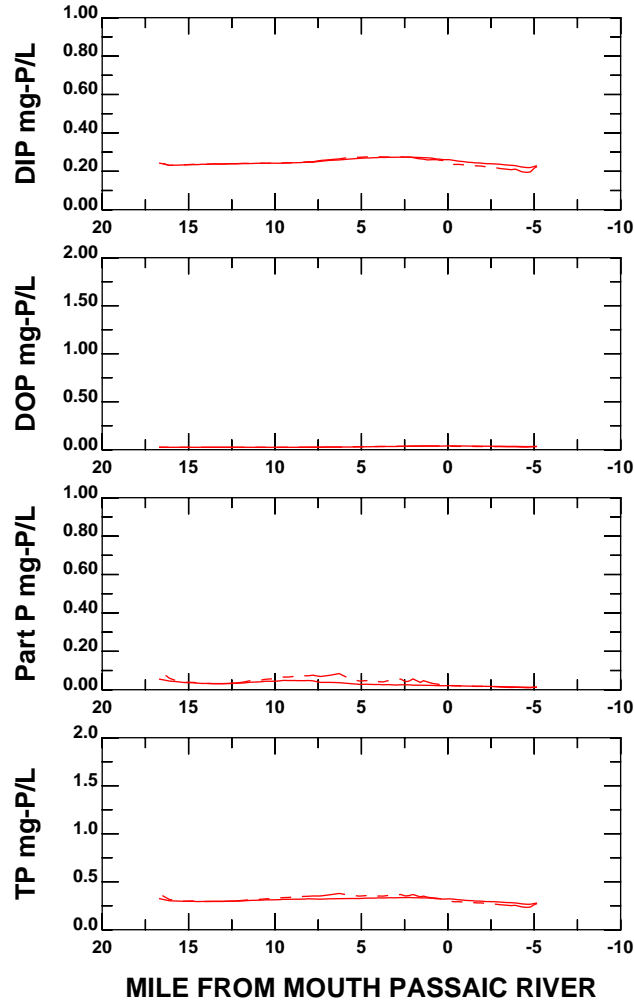
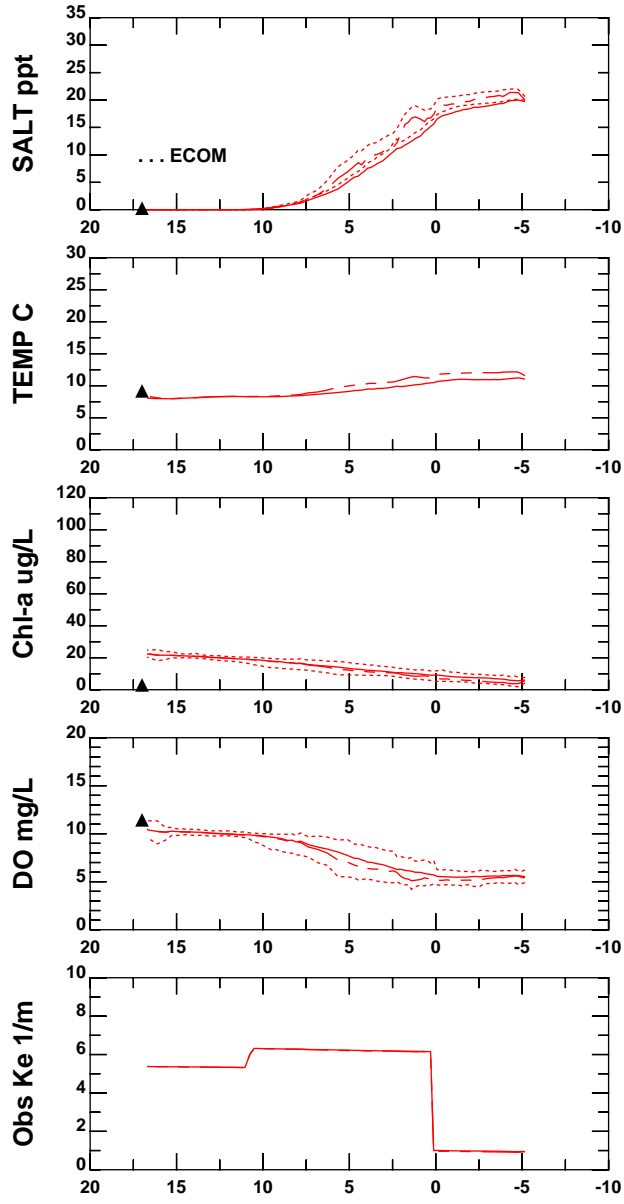


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



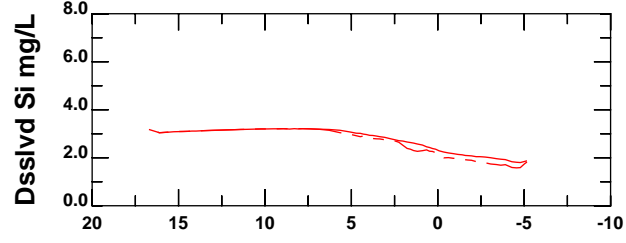
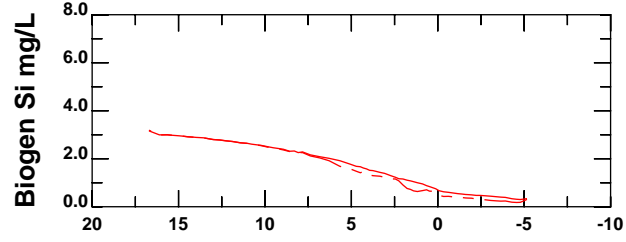
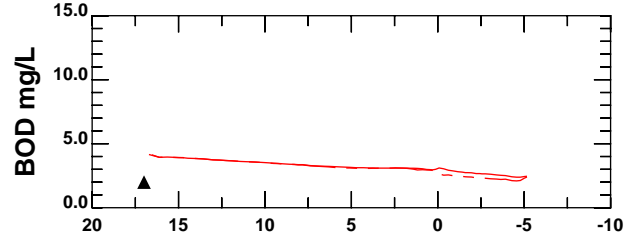
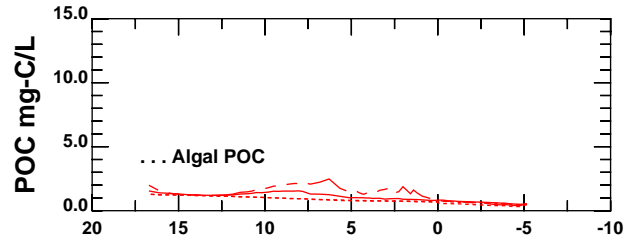
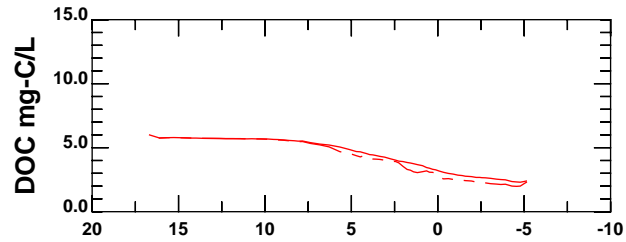
**DATA**  
NJHDG Nov 08,2007

**MODEL**

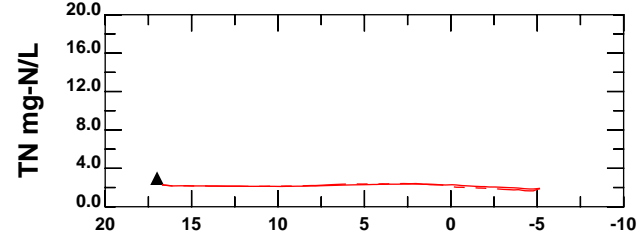
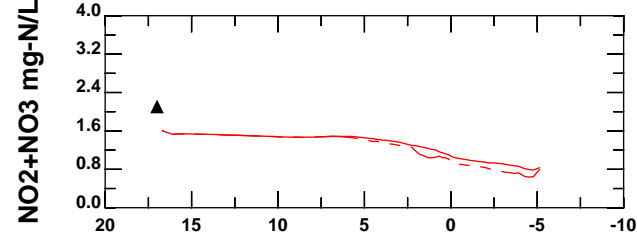
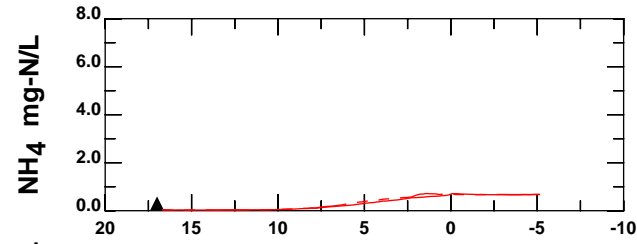
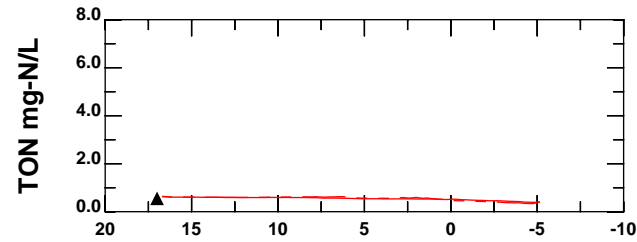
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Nov 08,2007

SURF BOTT MID

▲ ▼ ●  
T B M

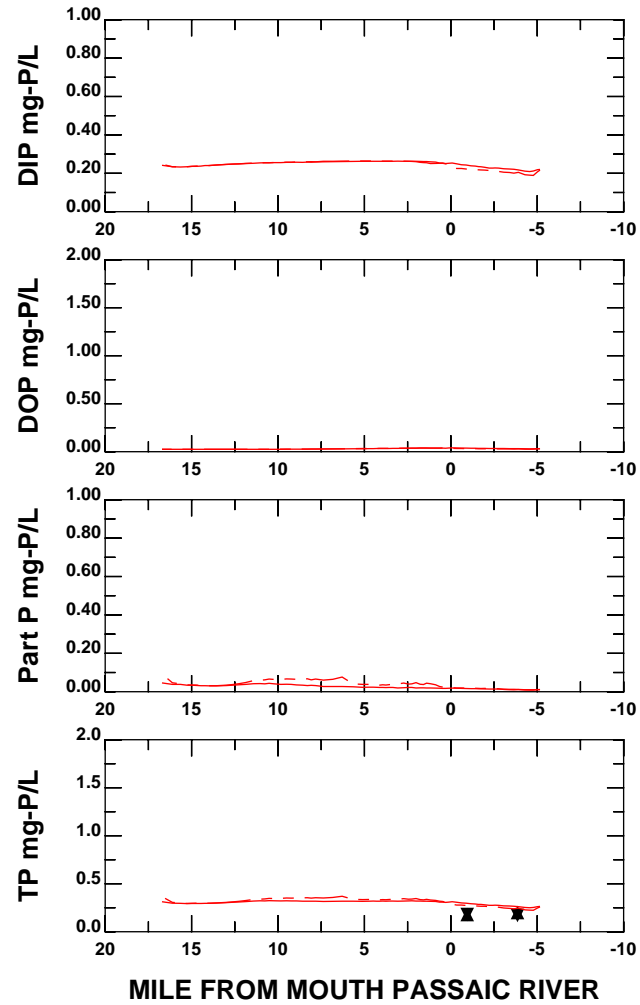
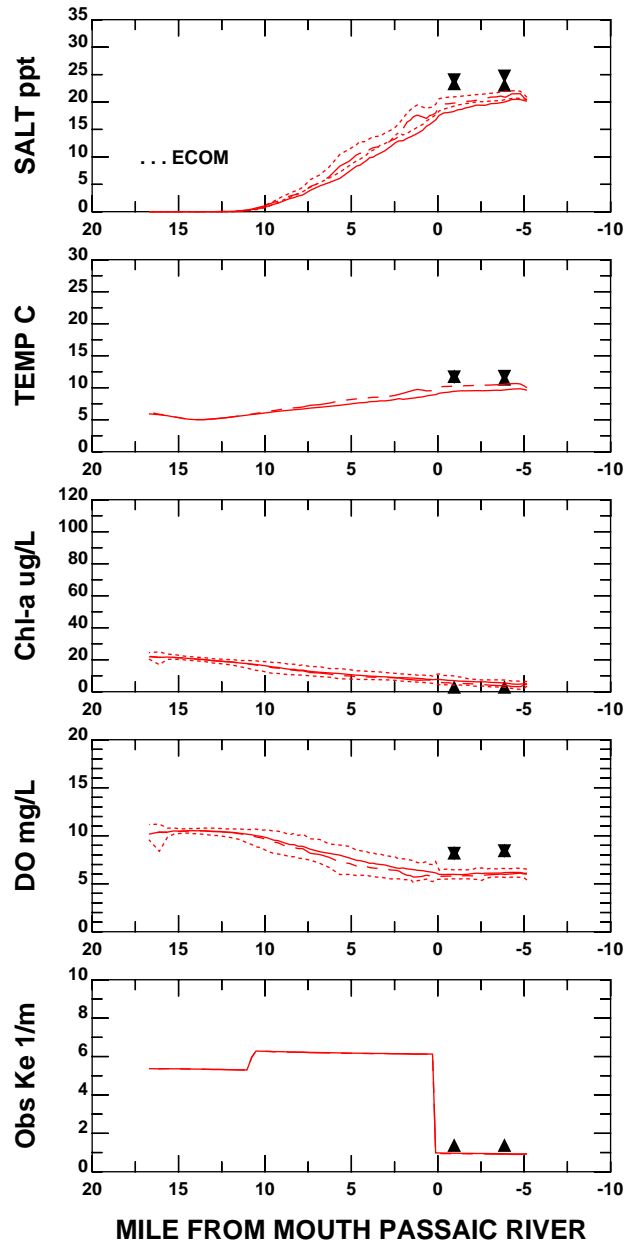
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



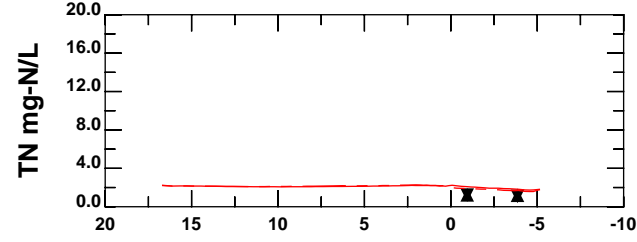
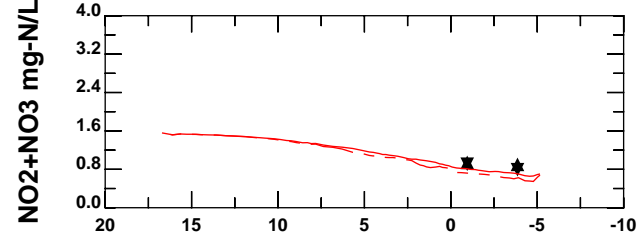
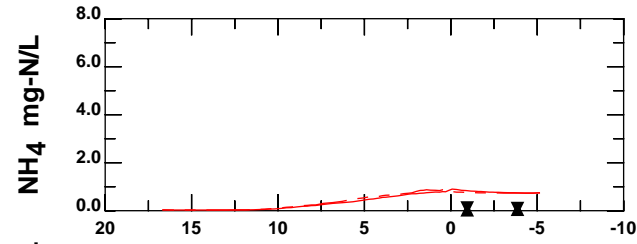
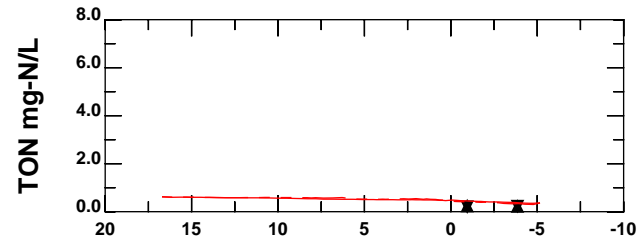
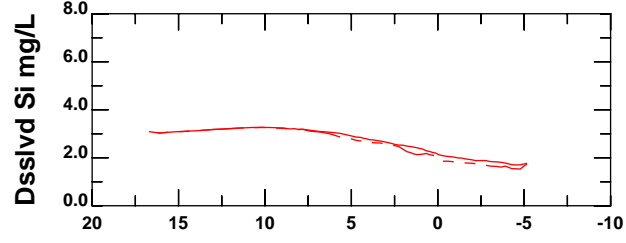
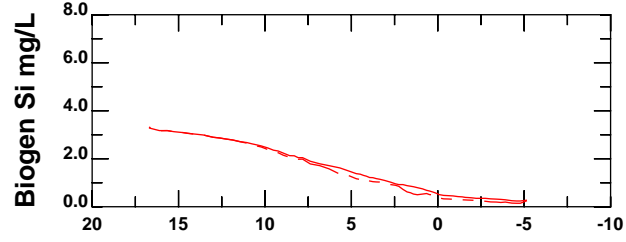
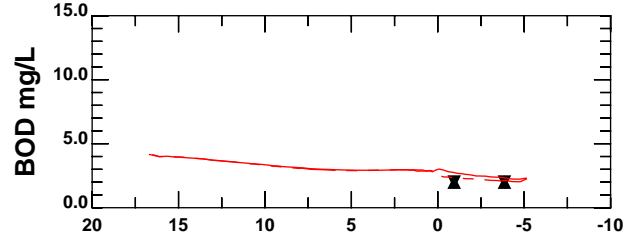
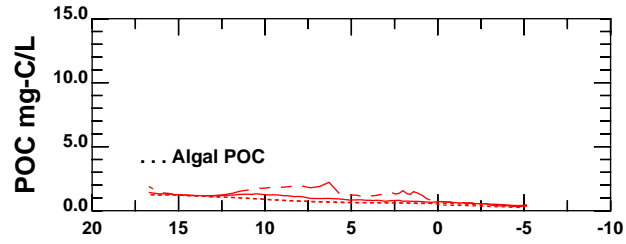
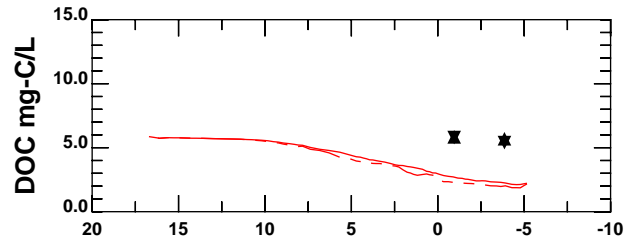
**DATA**  
NJHDG Nov 14,2007

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Nov 14,2007

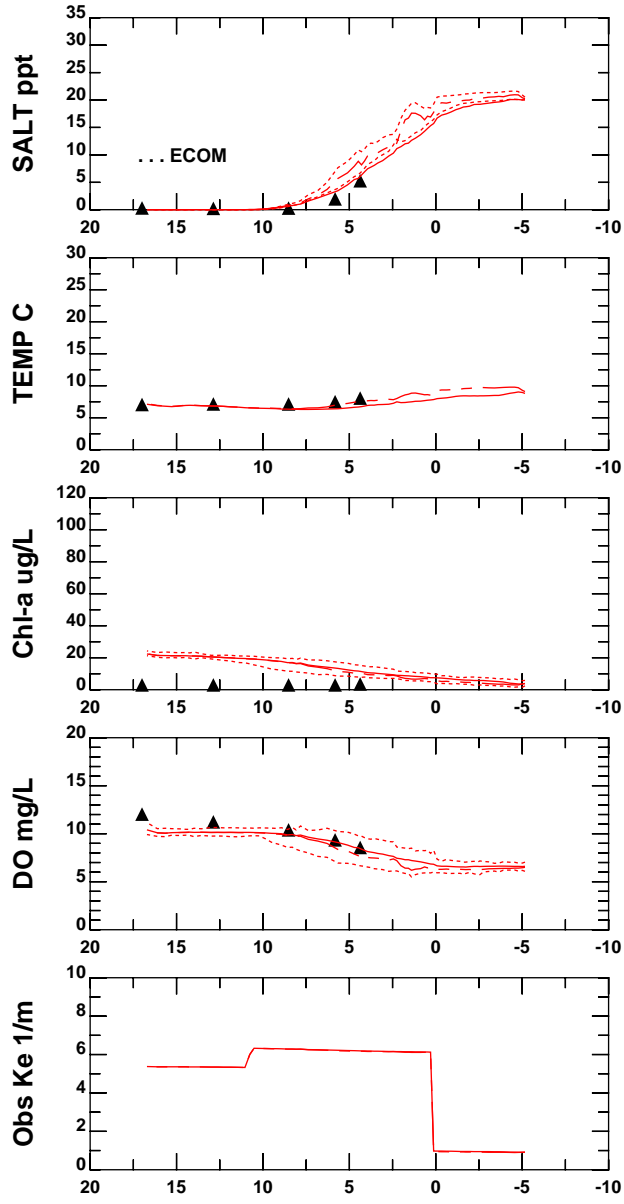
SURF BOTT MID  
▲ ▼ ●  
T B M

Transect  
Embayment

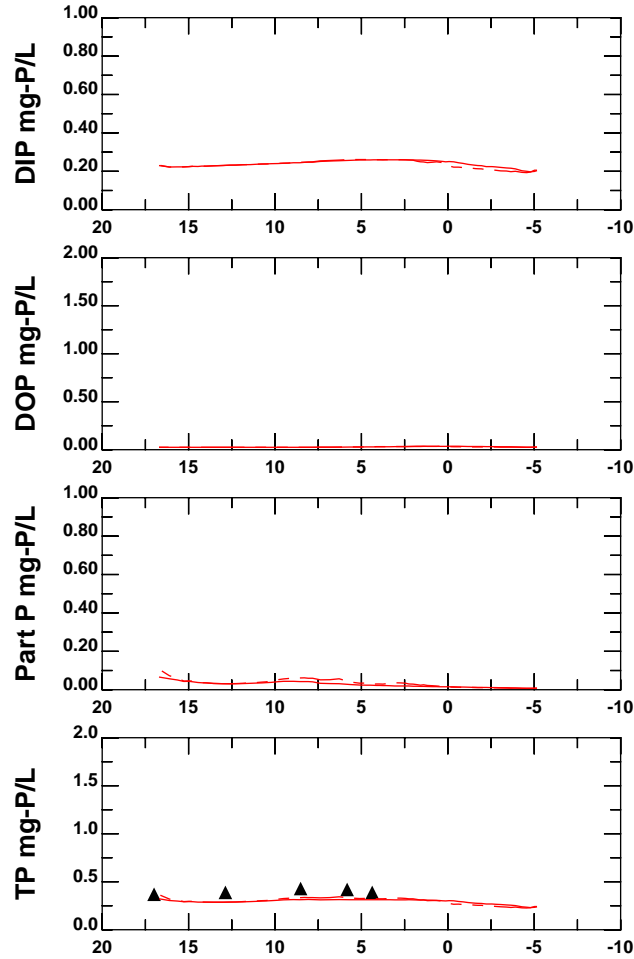
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

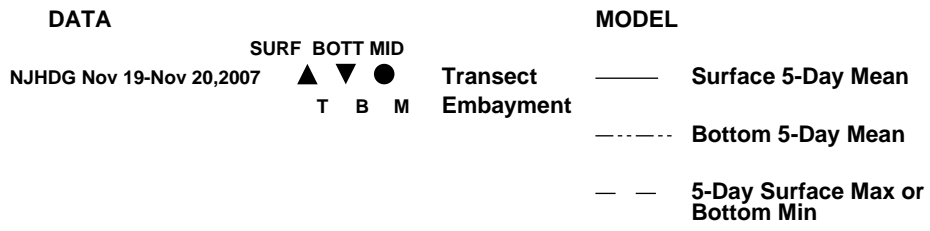
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



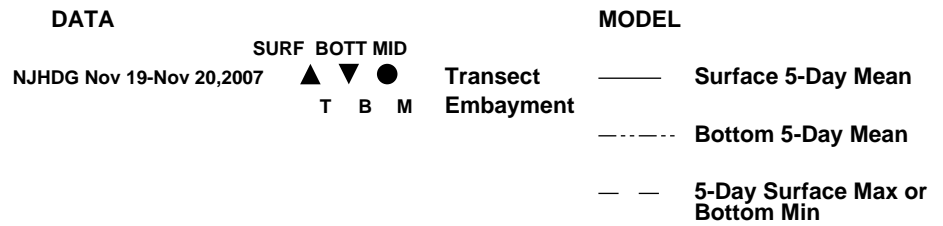
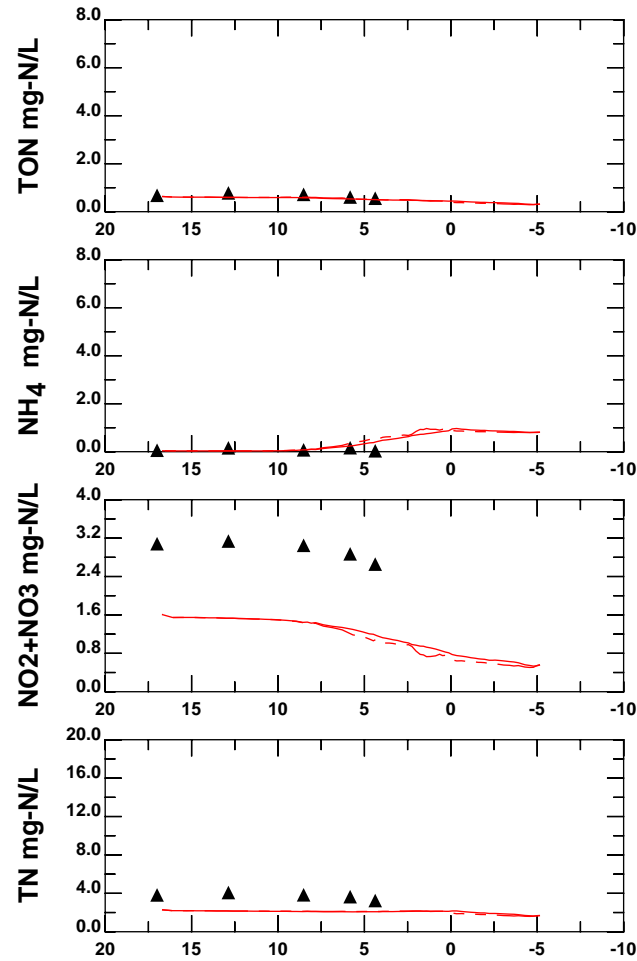
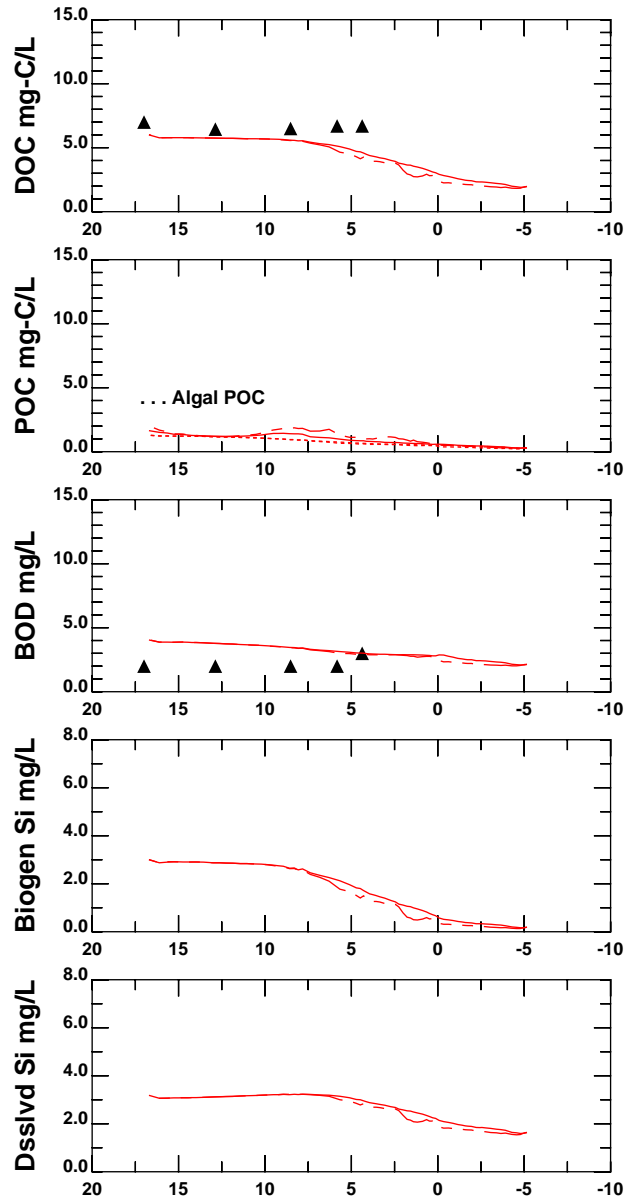
MILE FROM MOUTH PASSAIC RIVER



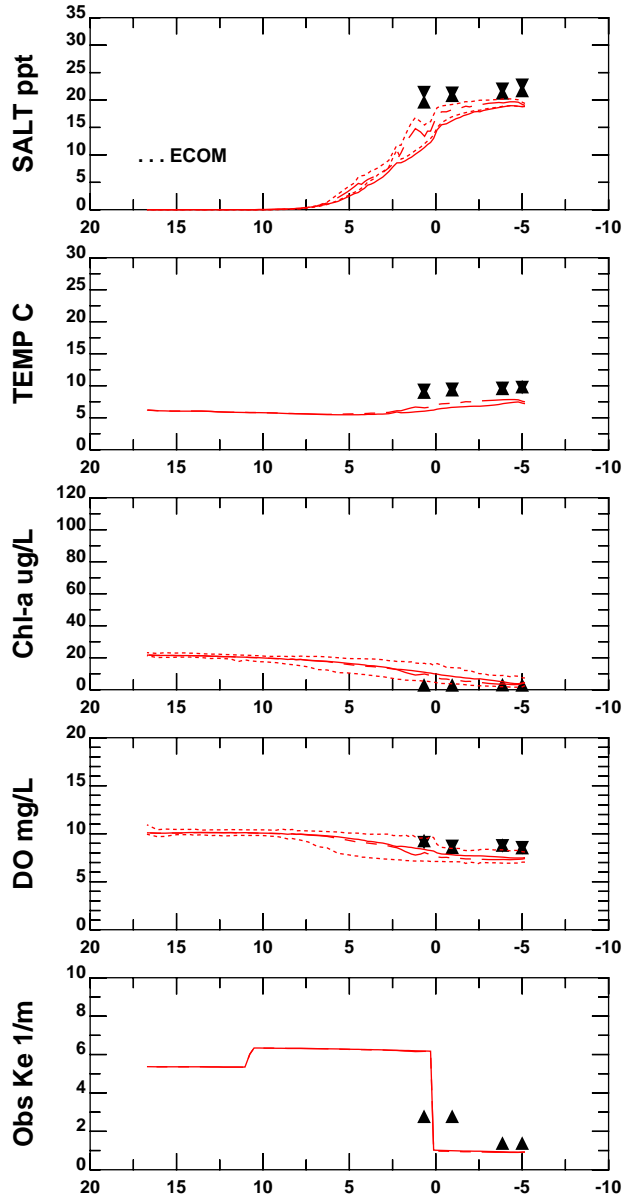
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

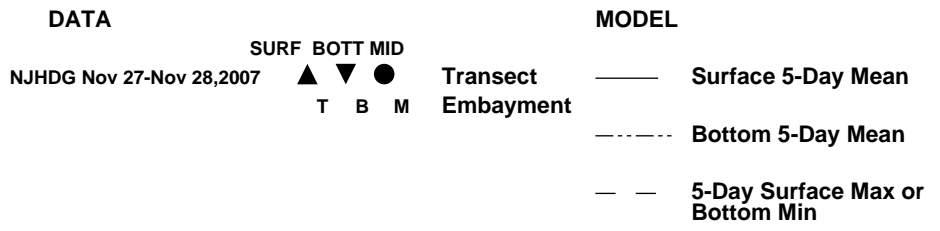
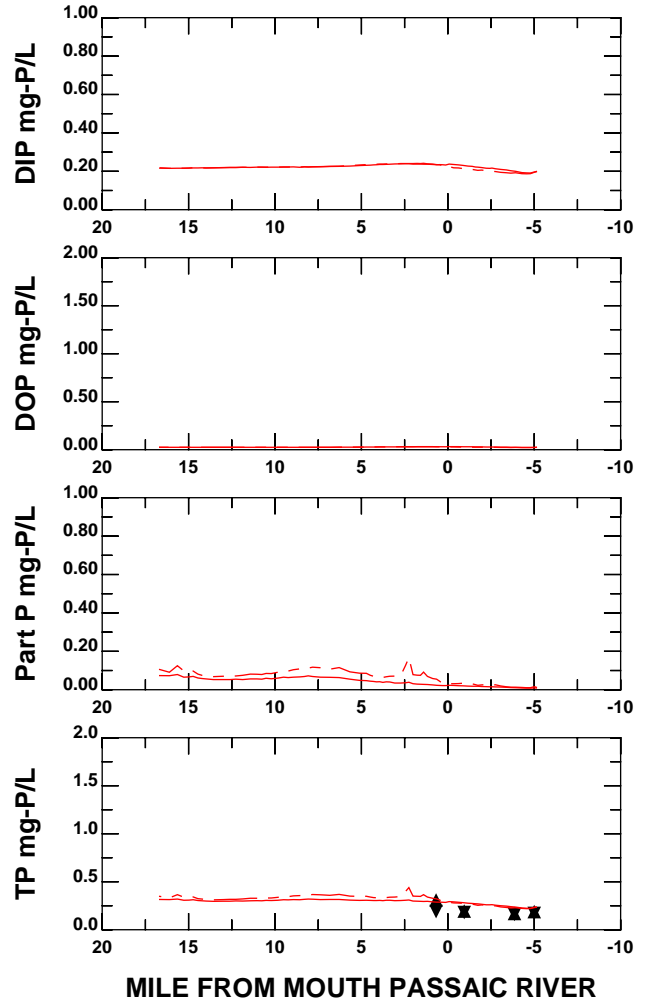


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

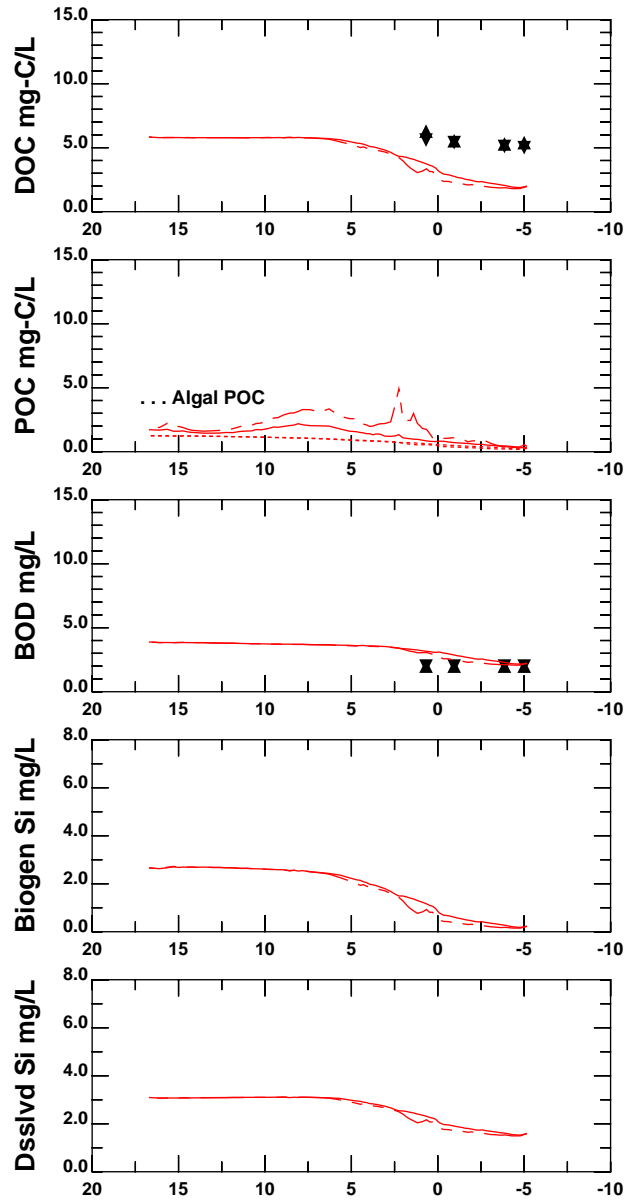


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



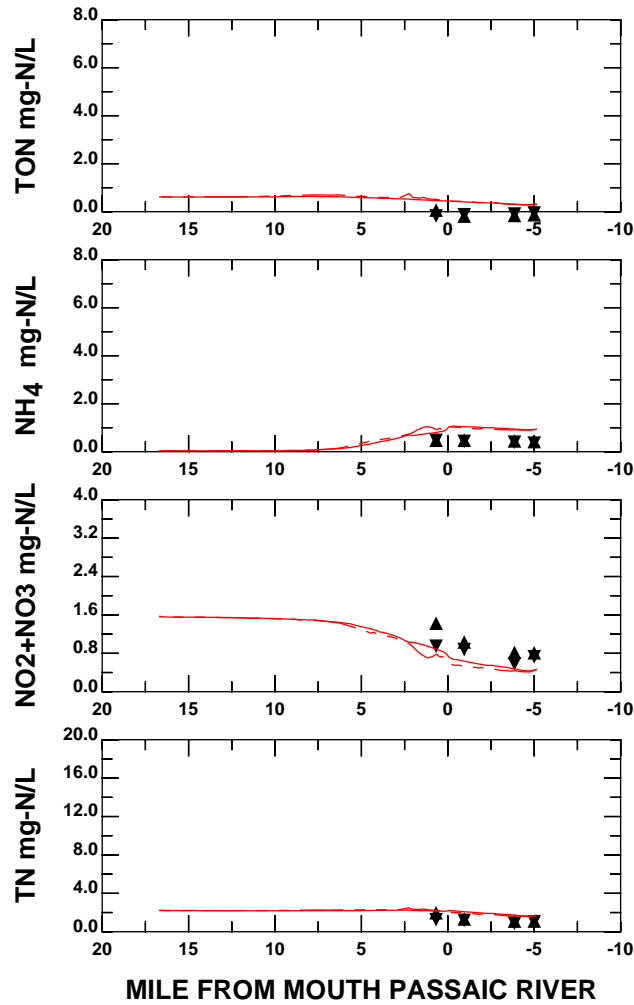




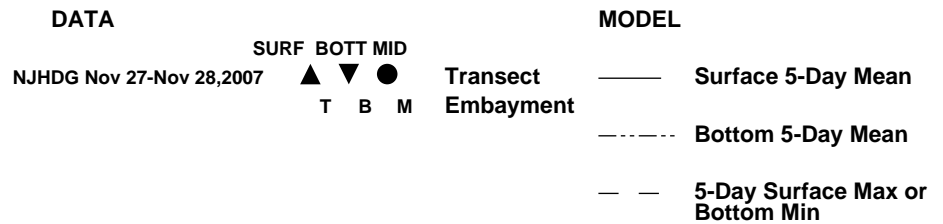
MILE FROM MOUTH PASSAIC RIVER

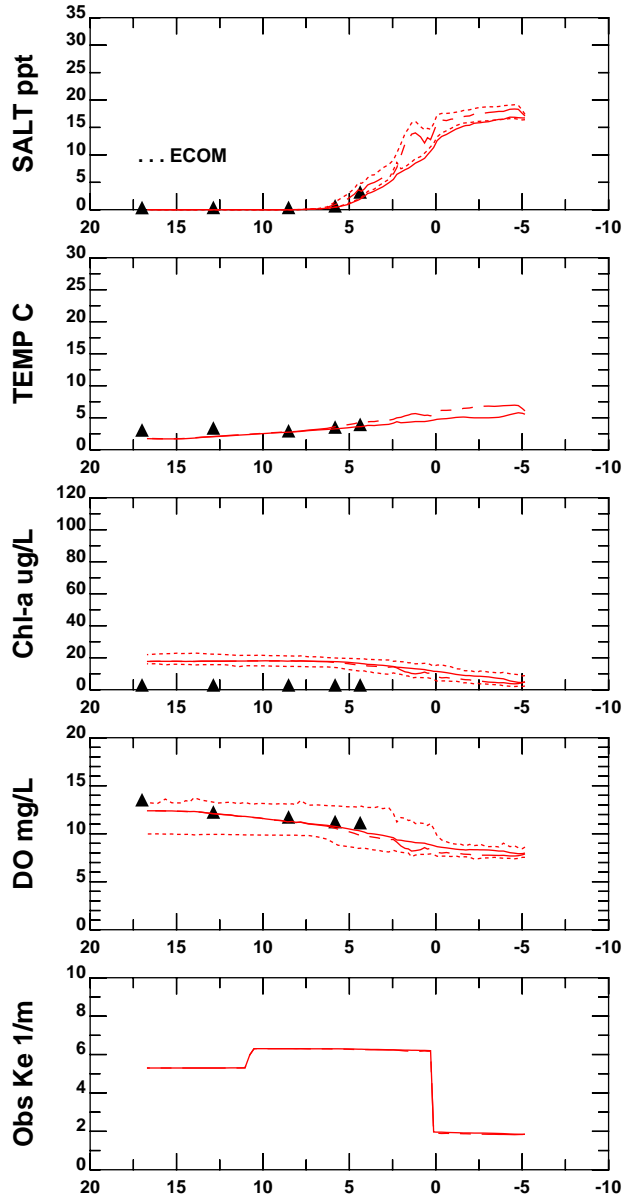
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



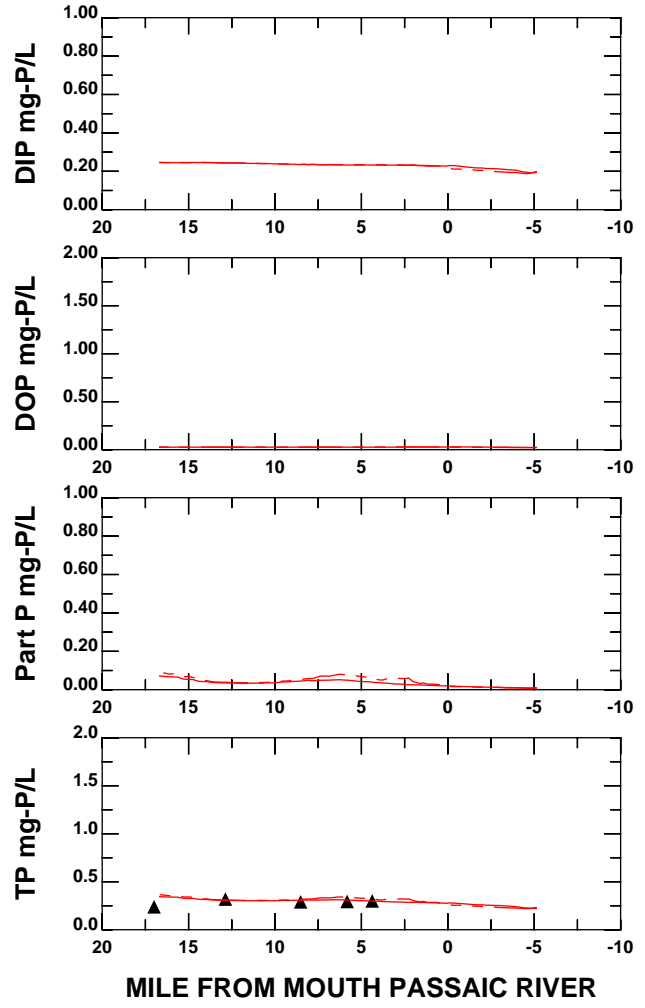
MILE FROM MOUTH PASSAIC RIVER



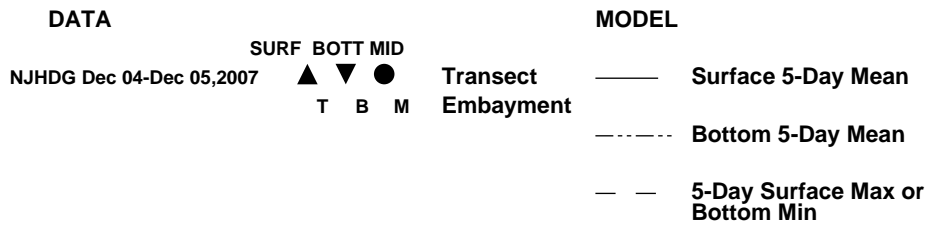


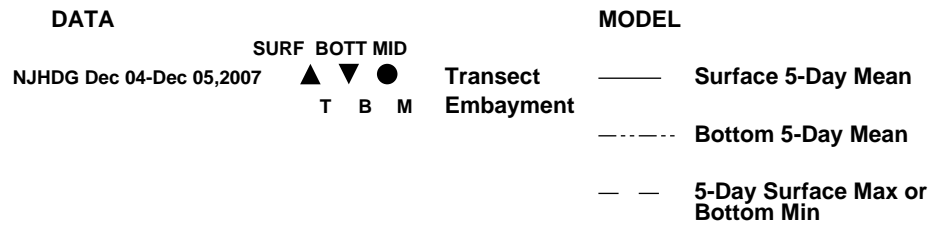
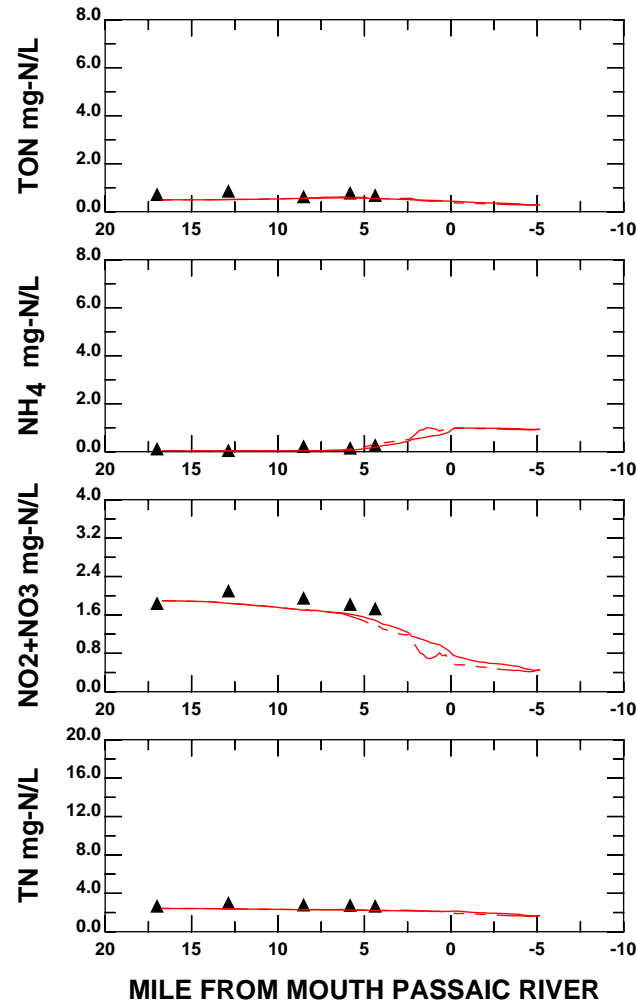
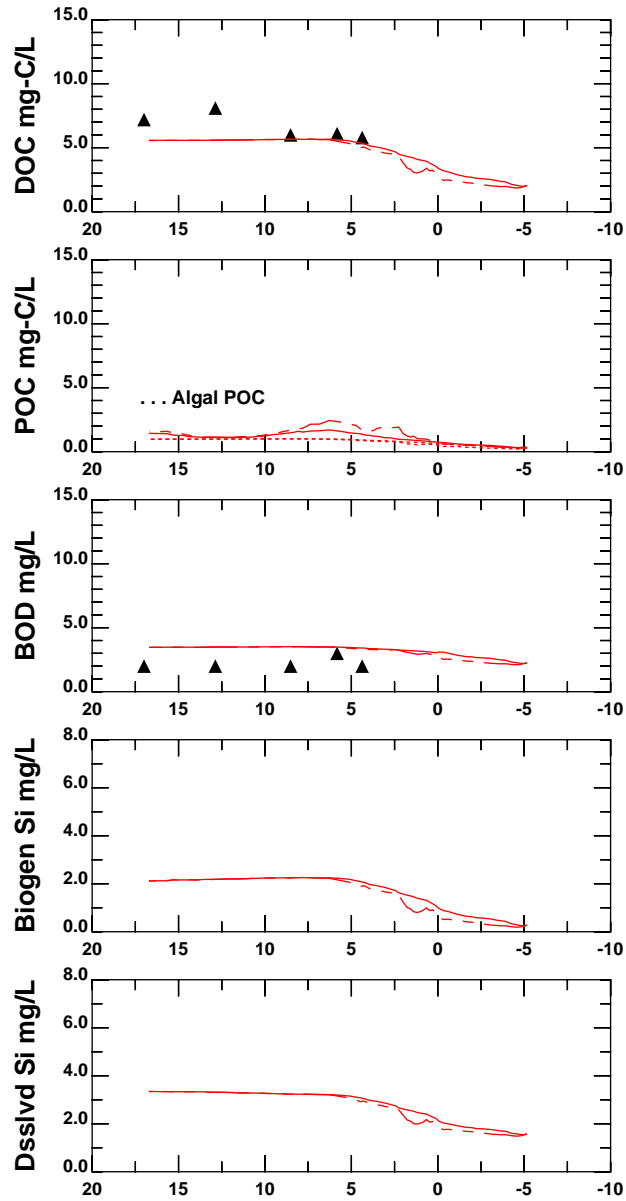
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

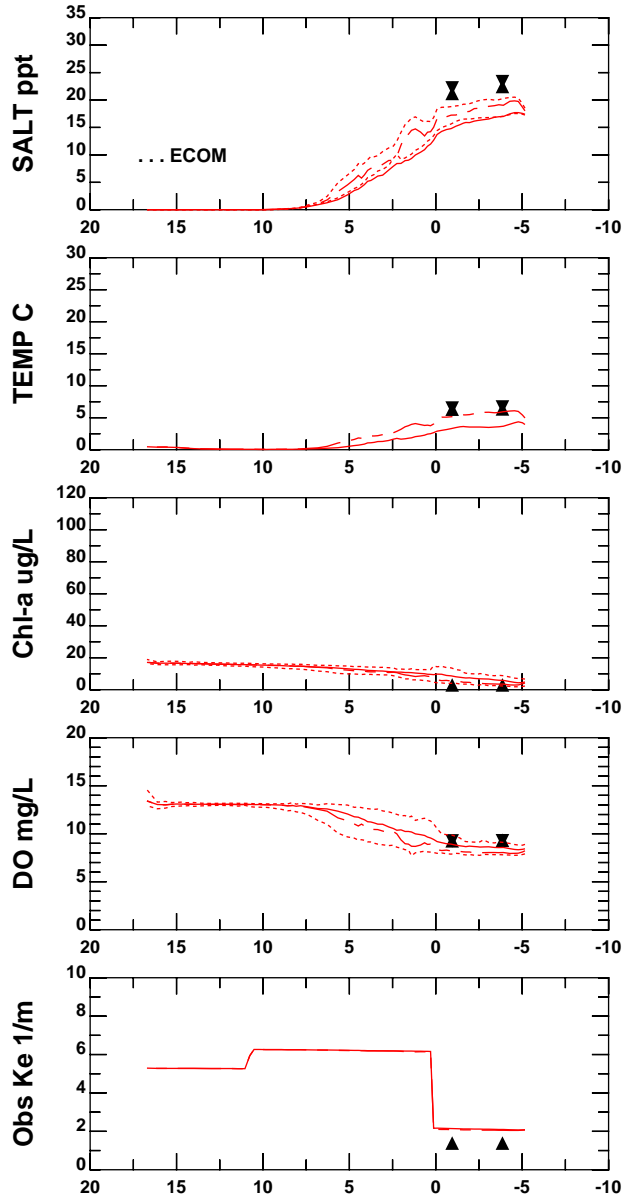


MILE FROM MOUTH PASSAIC RIVER



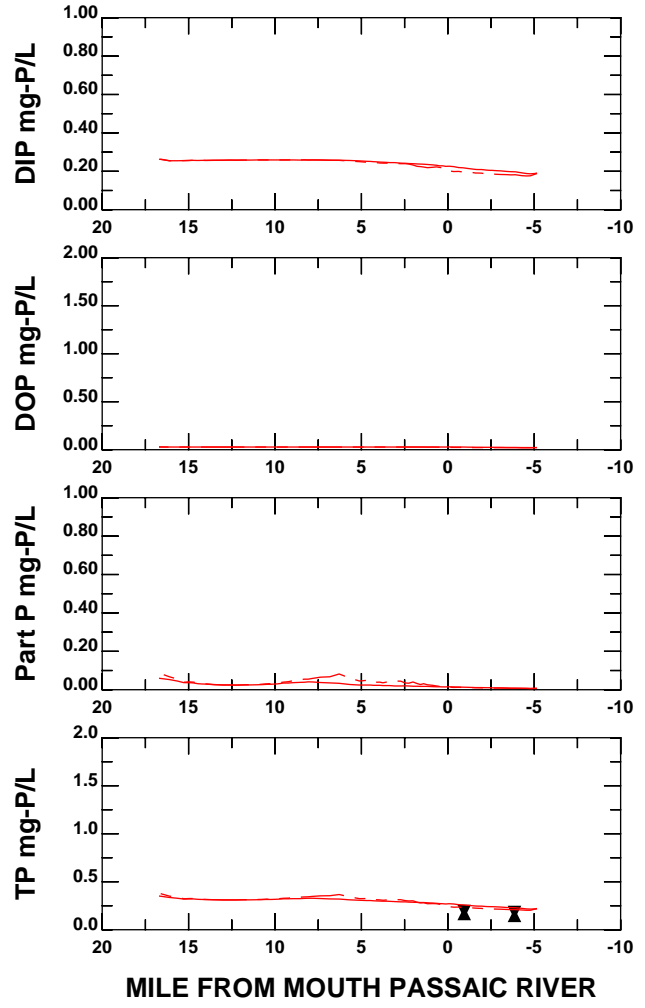


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

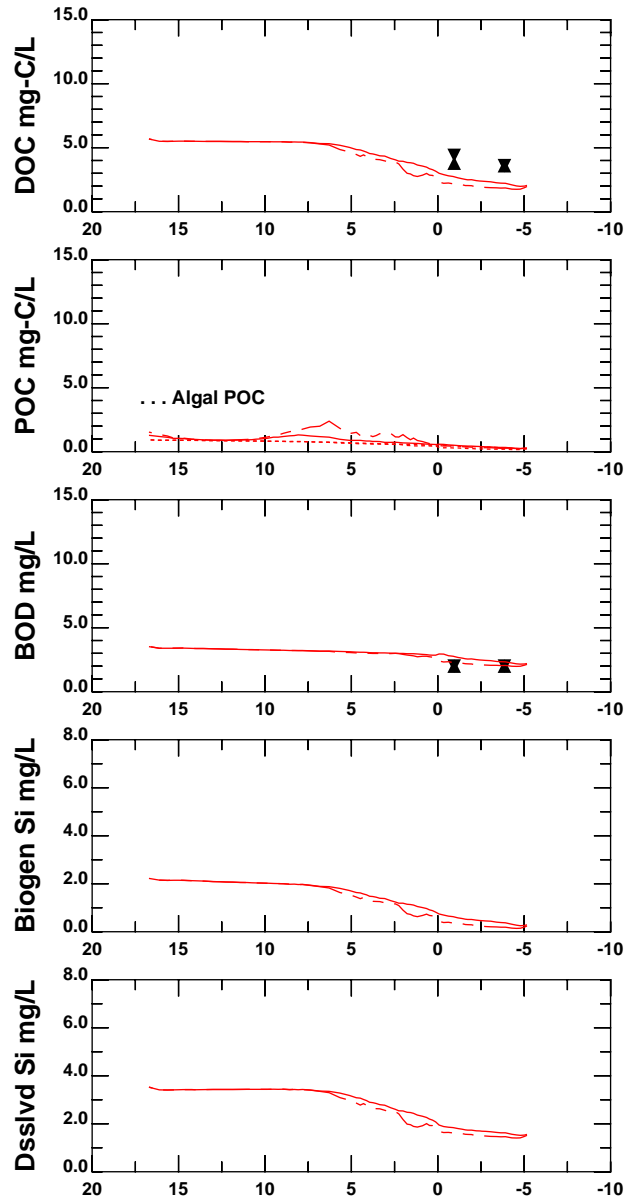
DATA  
 NJHDG Dec 10,2007

SURF BOTT MID  
 ▲ ▼ ●  
 T B M

Transect  
 Embayment

MODEL

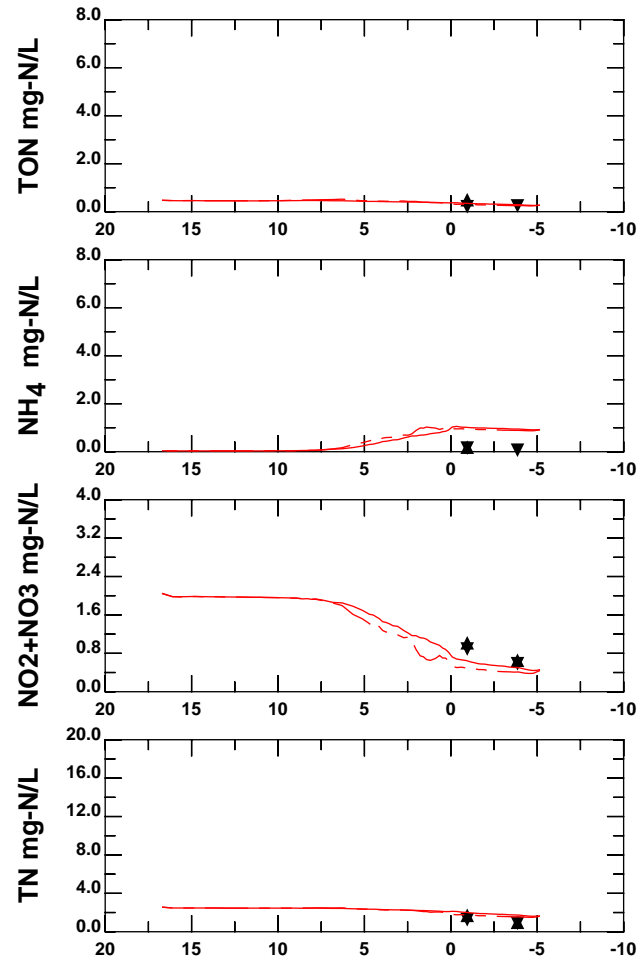
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708

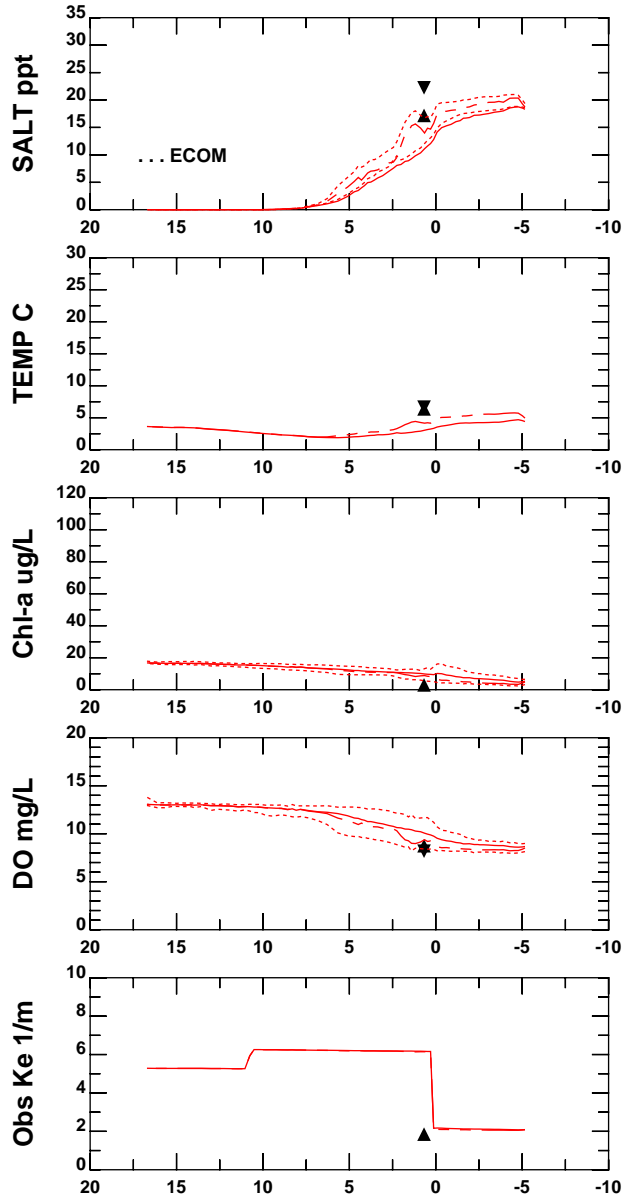


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Dec 10,2007

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

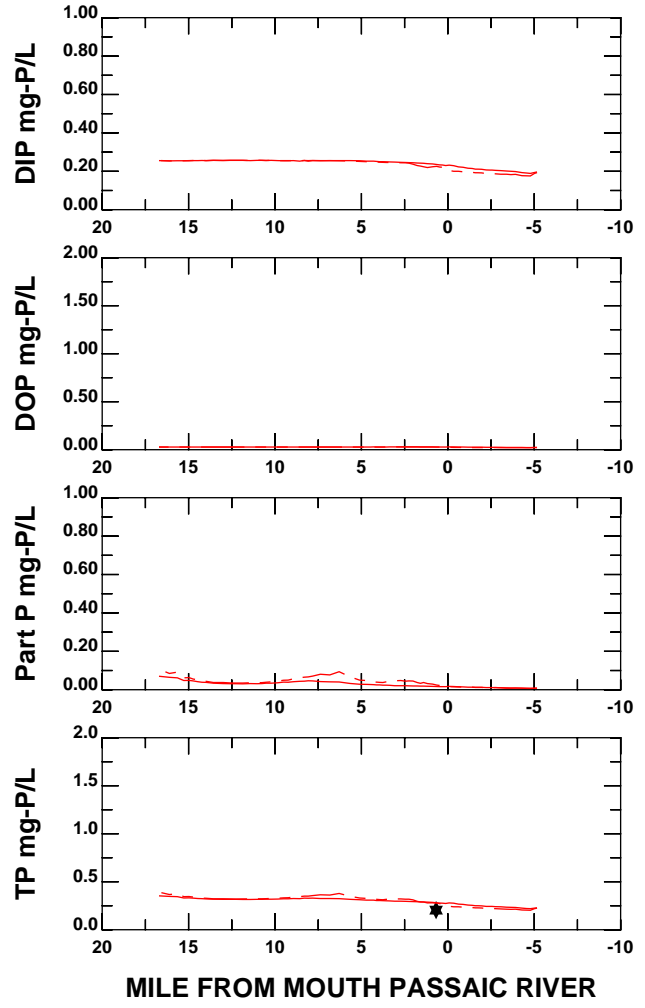
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0708

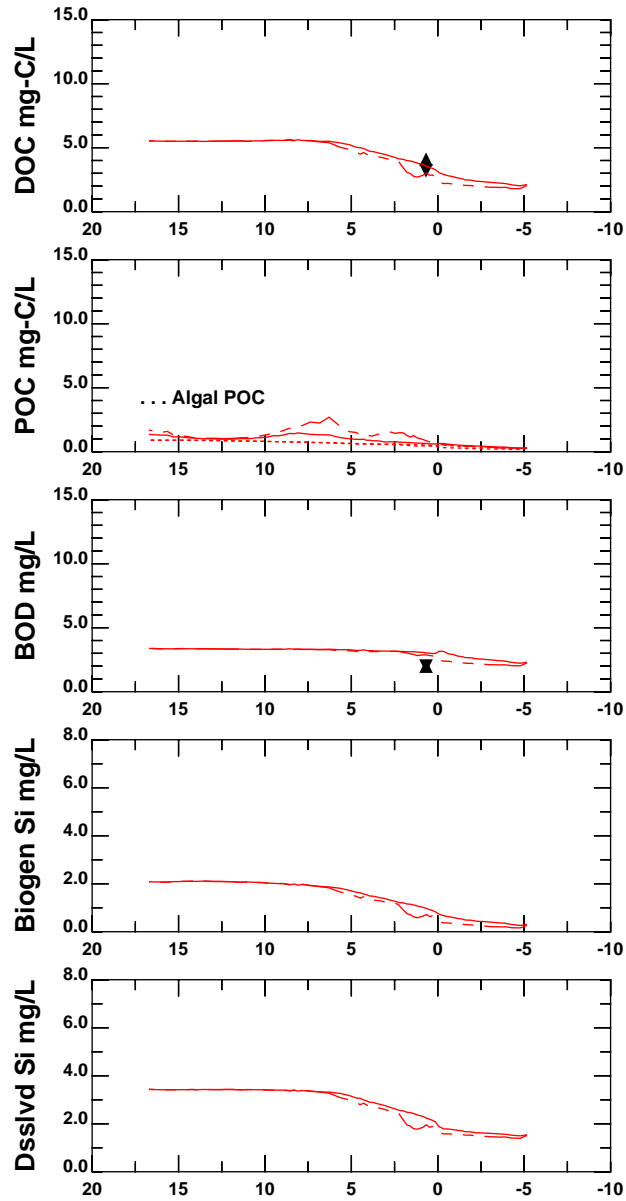


DATA  
NJHGD Dec 12,2007

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

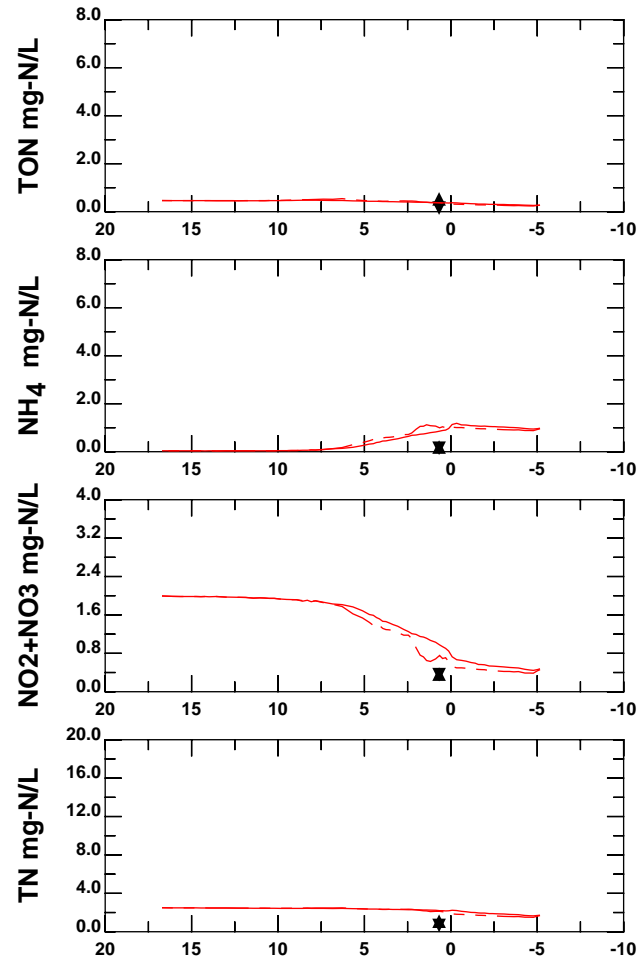
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708

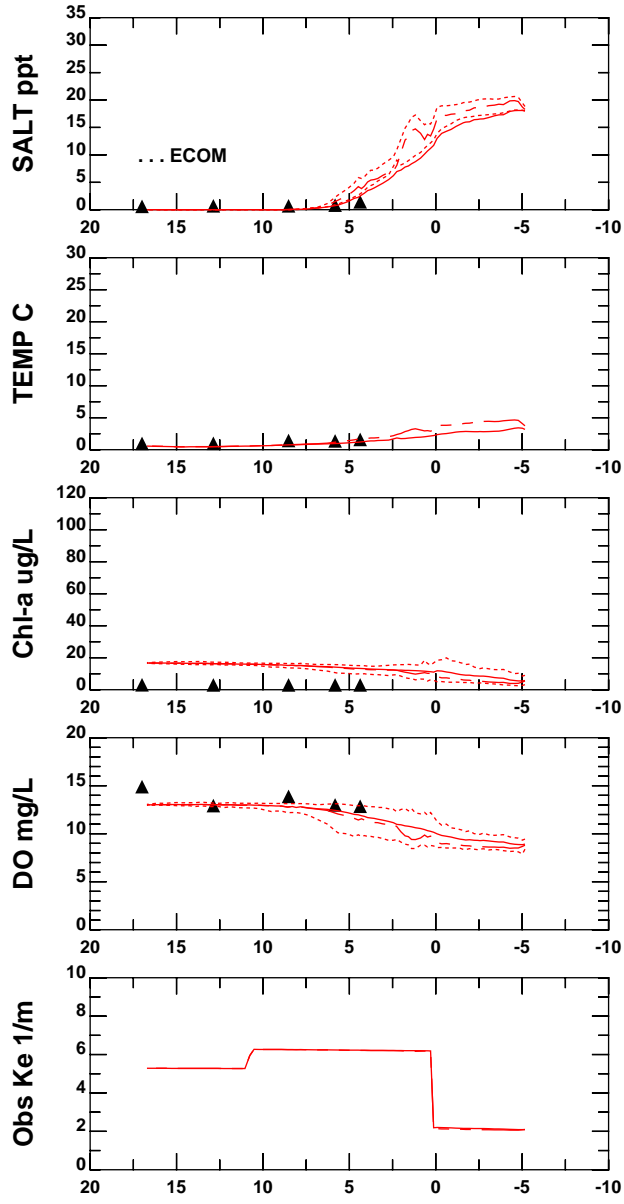


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Dec 12,2007

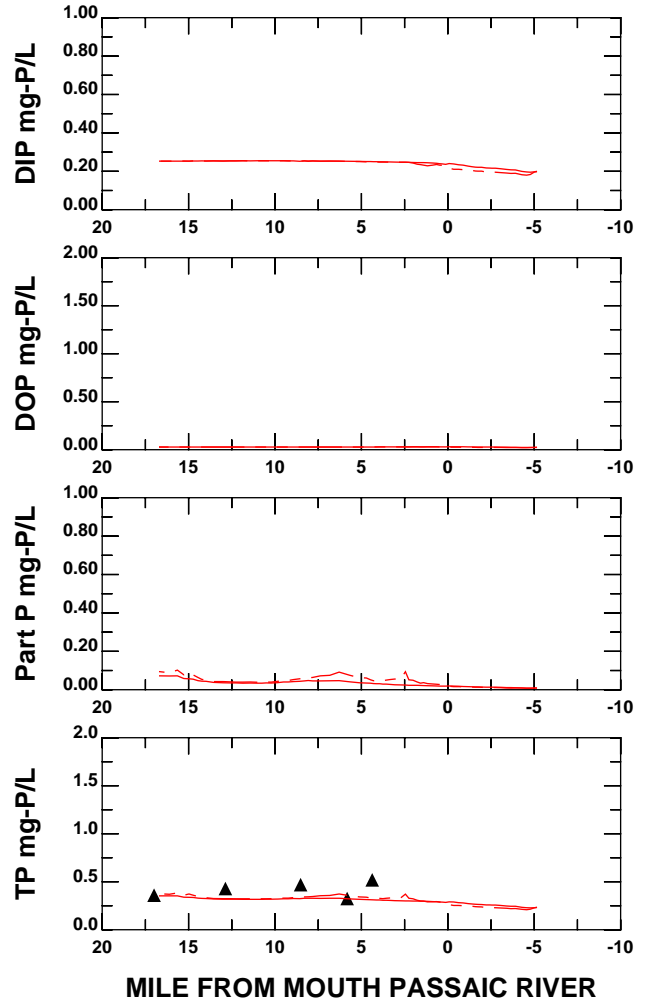
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

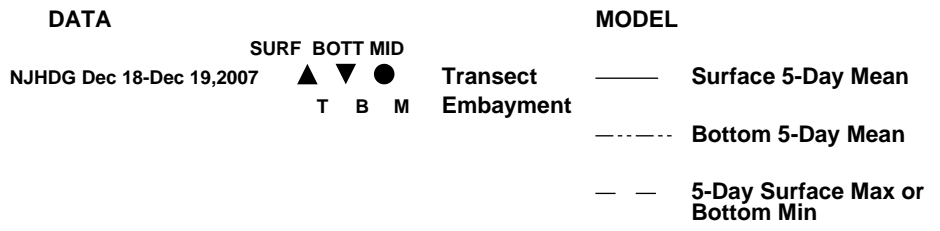


MILE FROM MOUTH PASSAIC RIVER

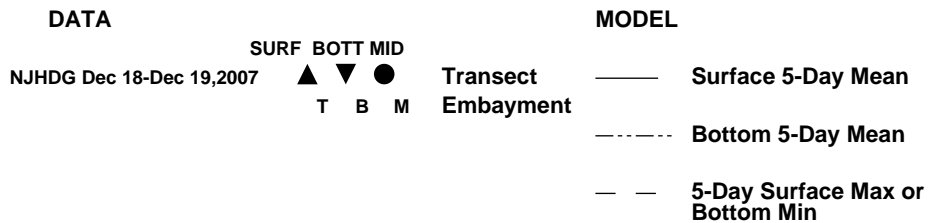
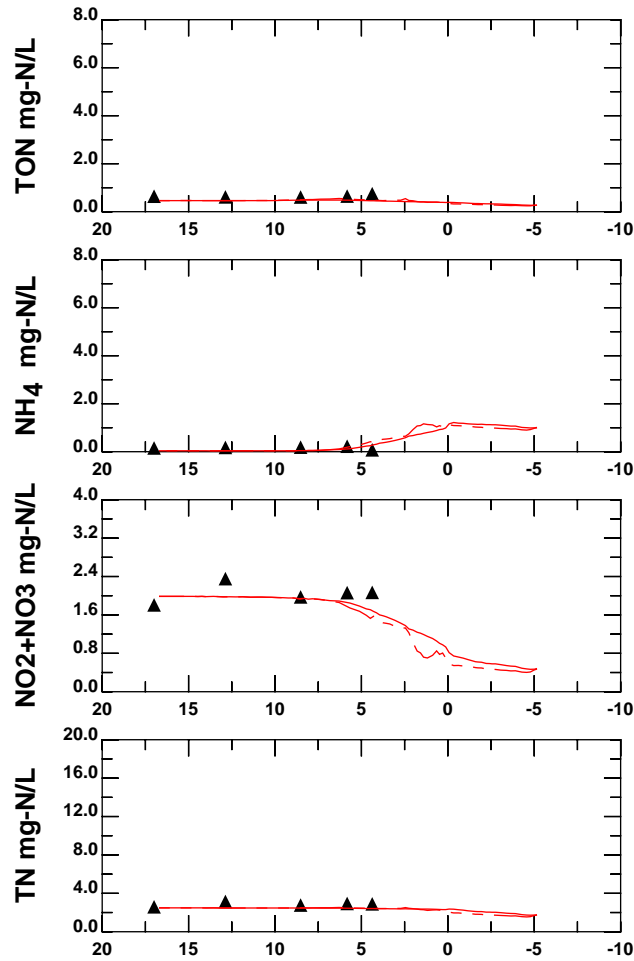
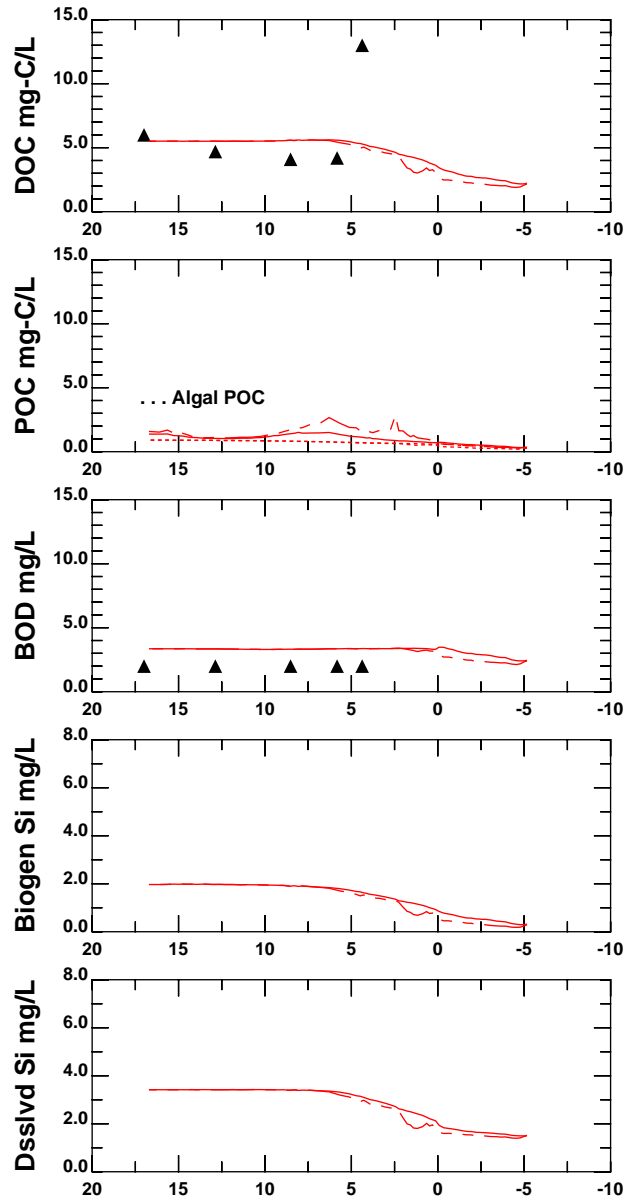
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



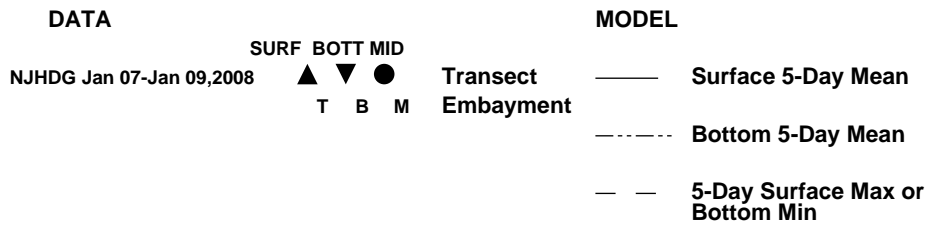
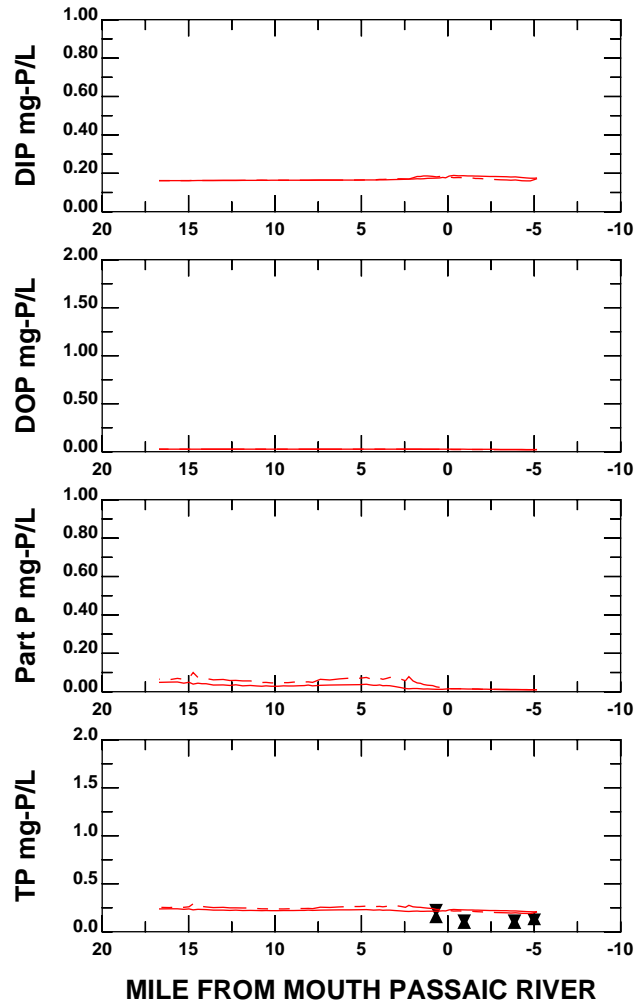
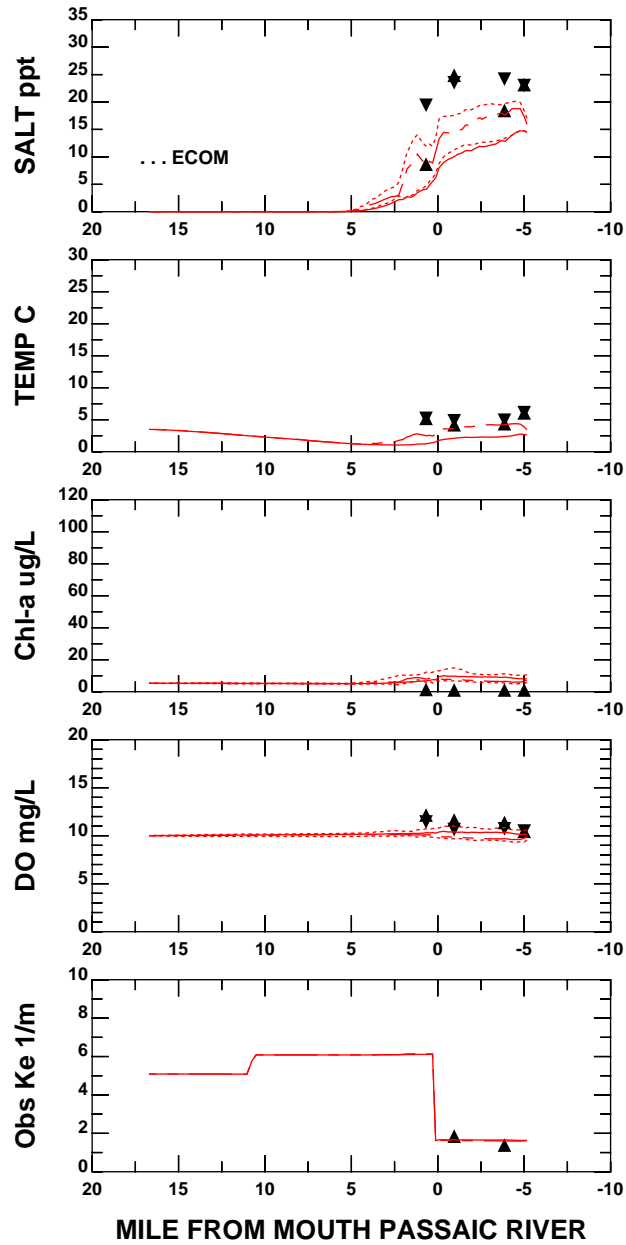
MILE FROM MOUTH PASSAIC RIVER



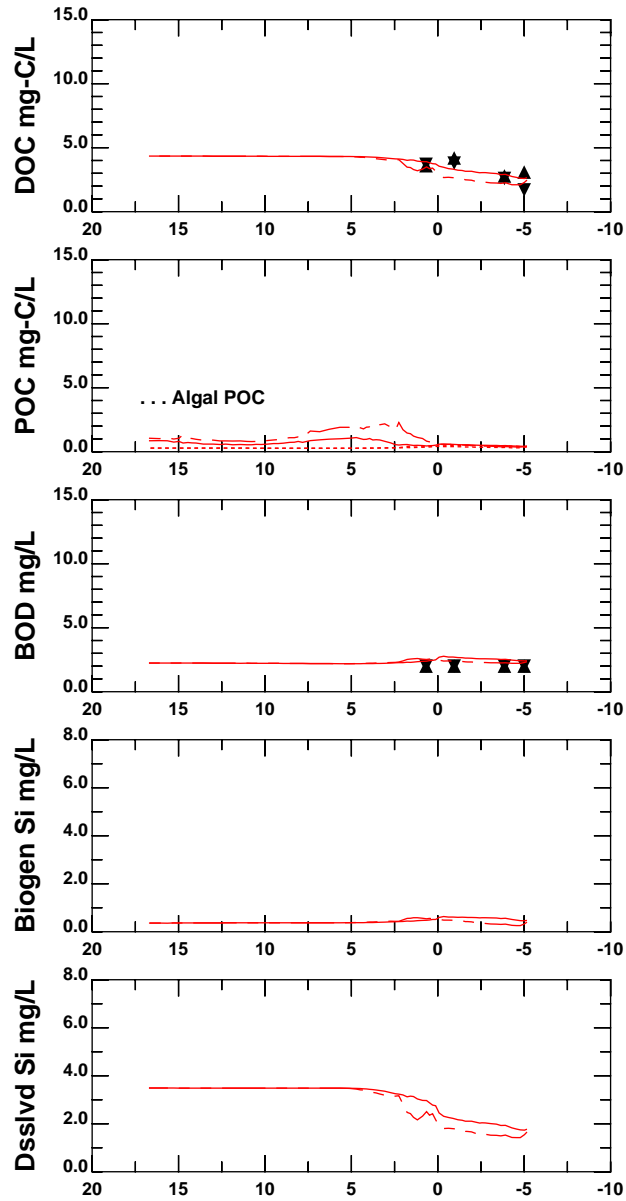




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



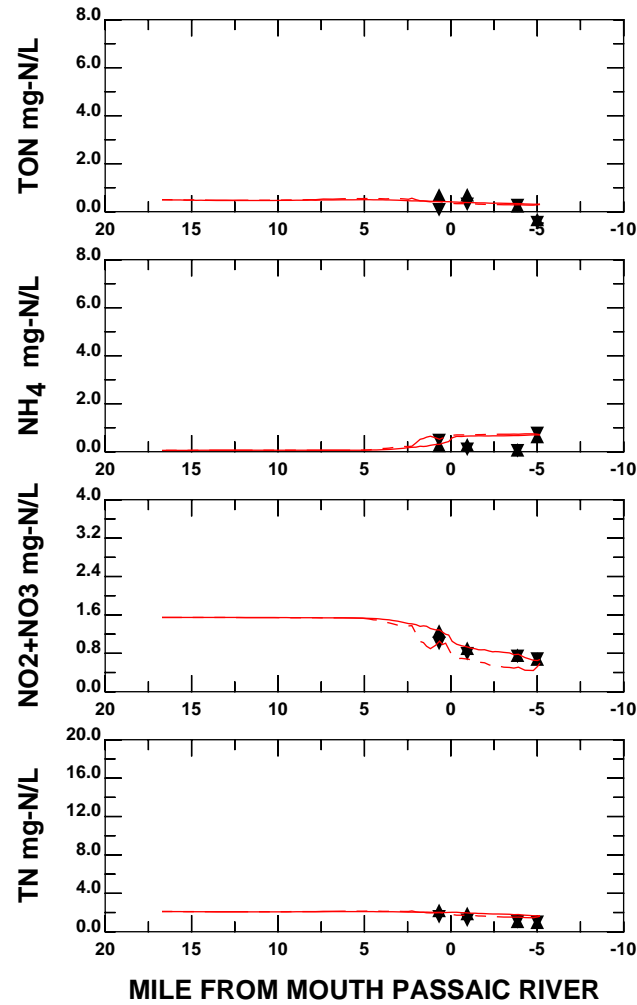
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



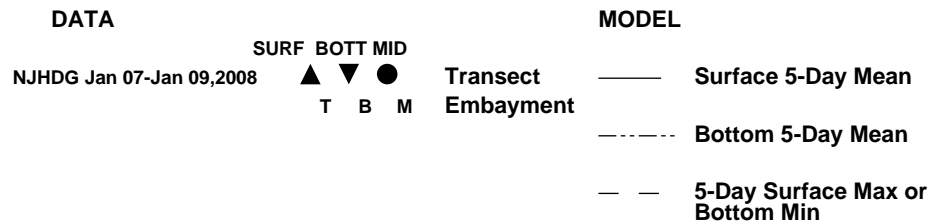
MILE FROM MOUTH PASSAIC RIVER

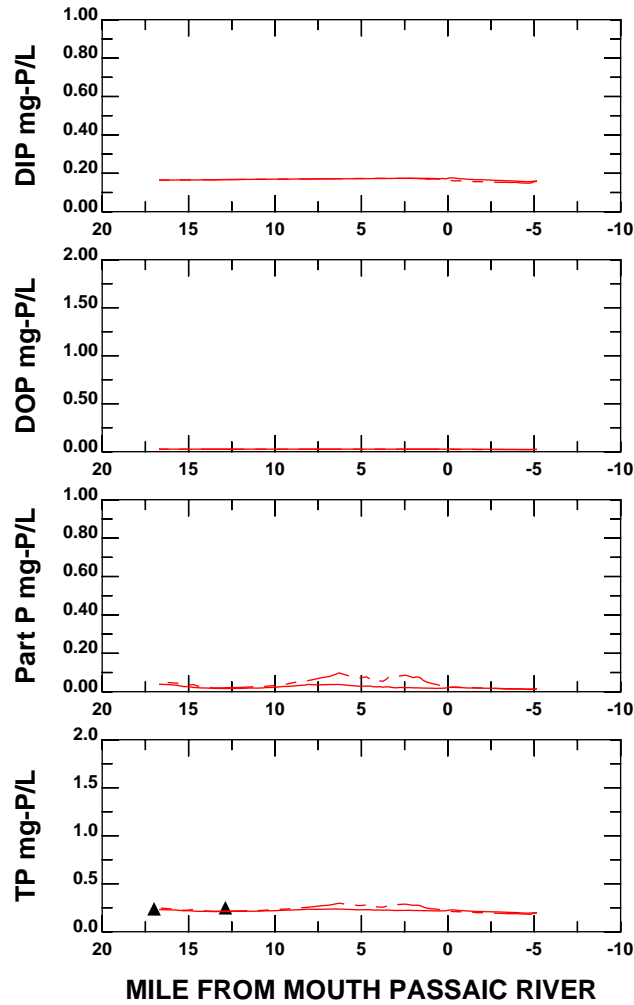
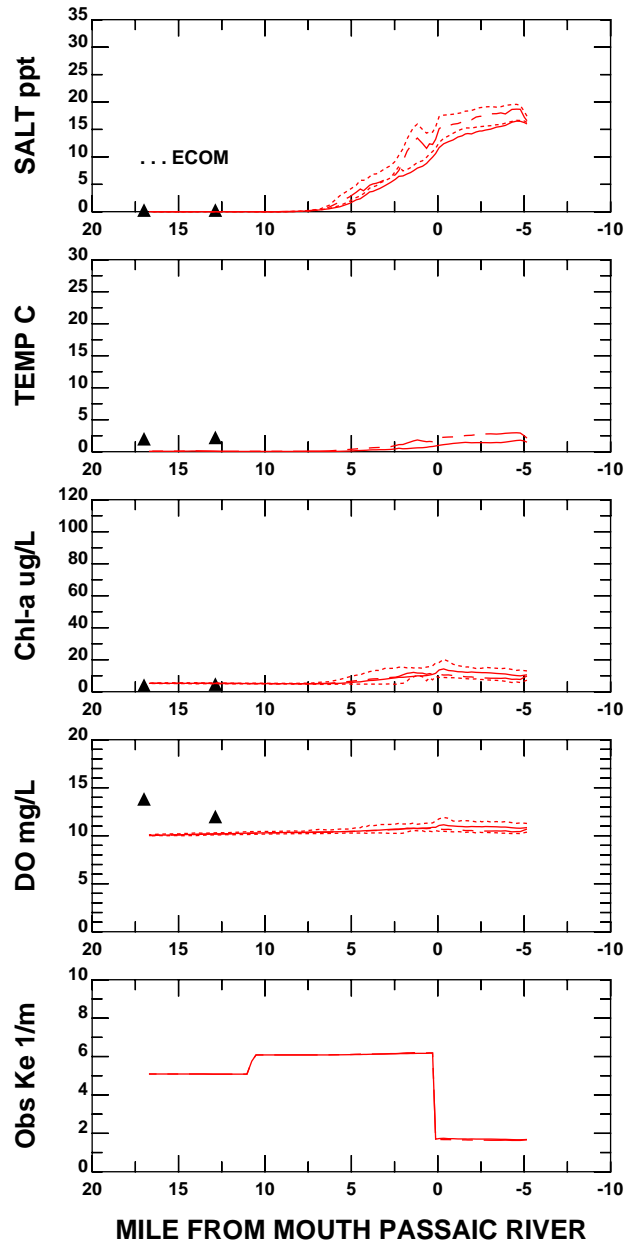
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER





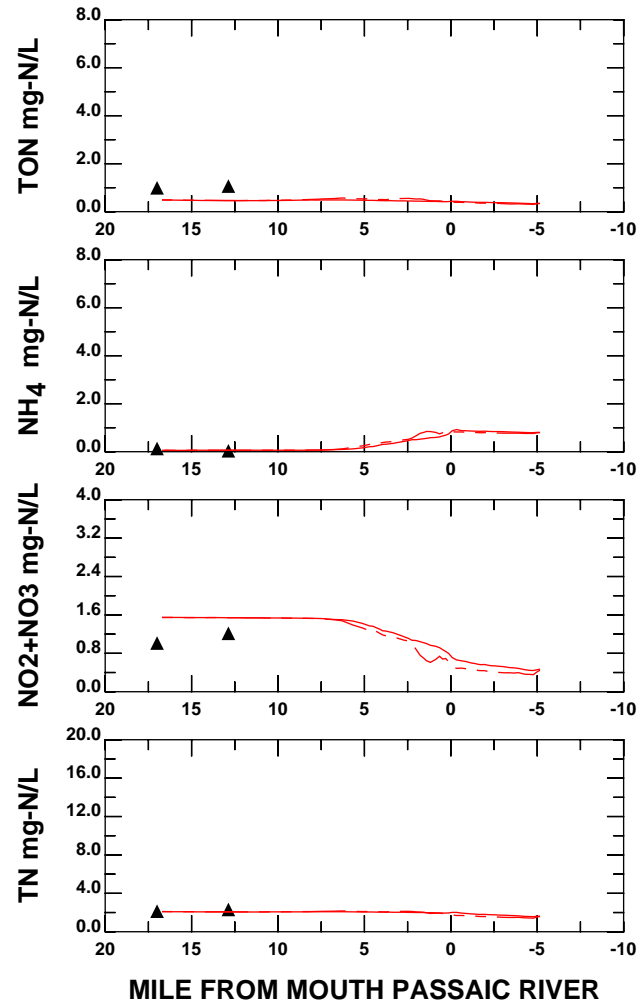
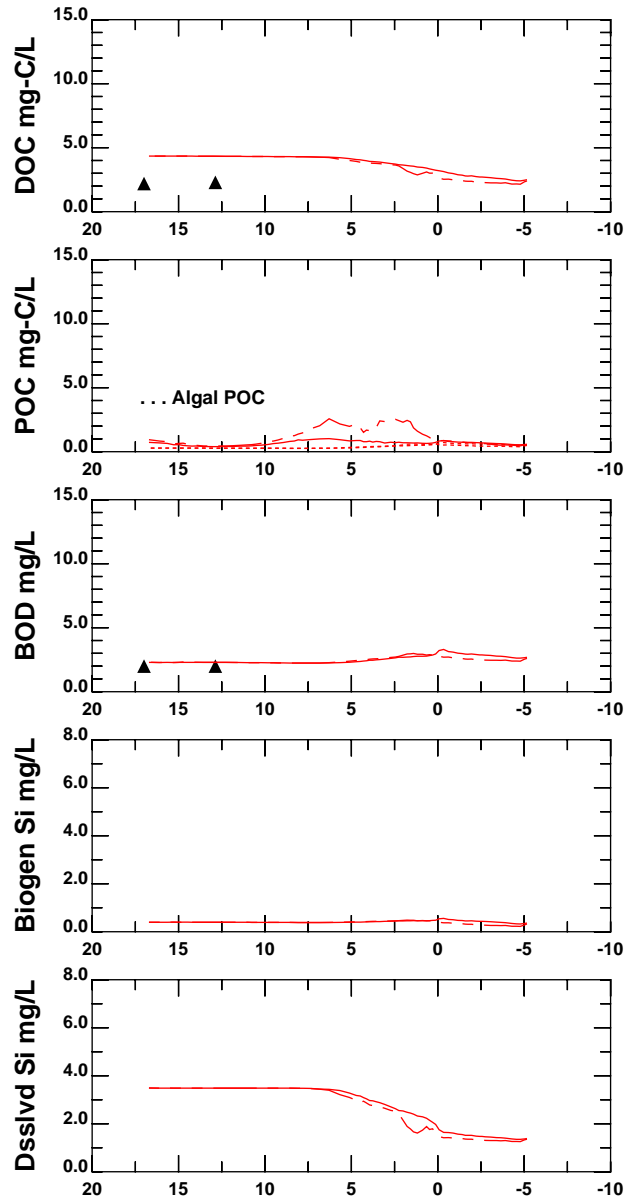
**DATA**  
NJHDG Jan 29, 2008

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

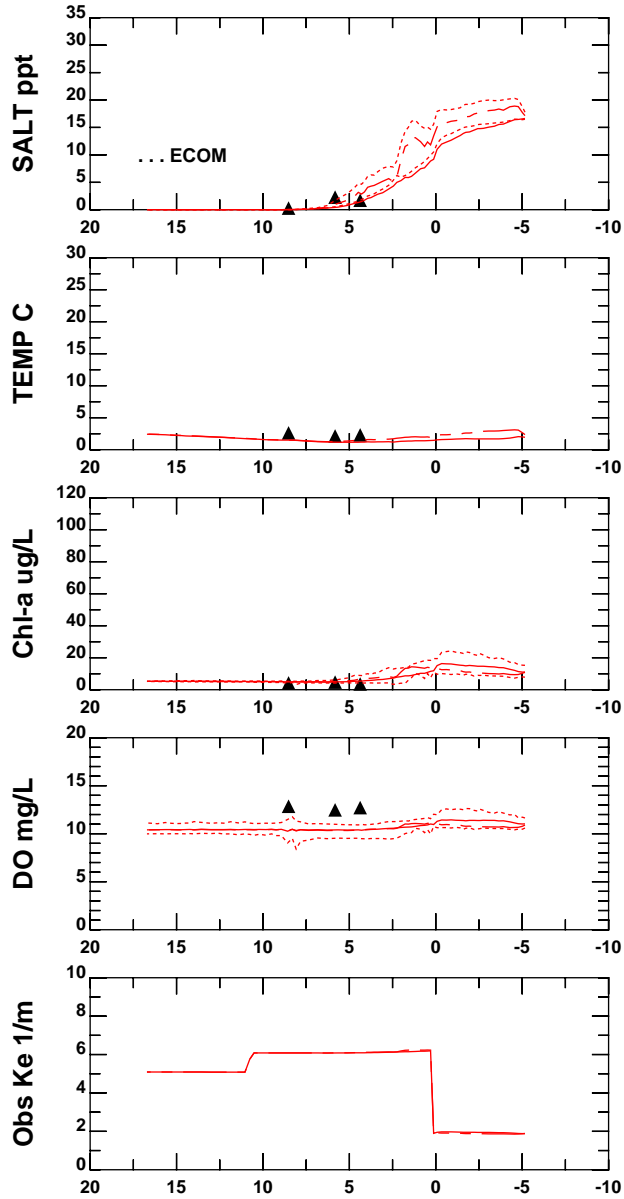


DATA  
NJHDG Jan 29, 2008

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

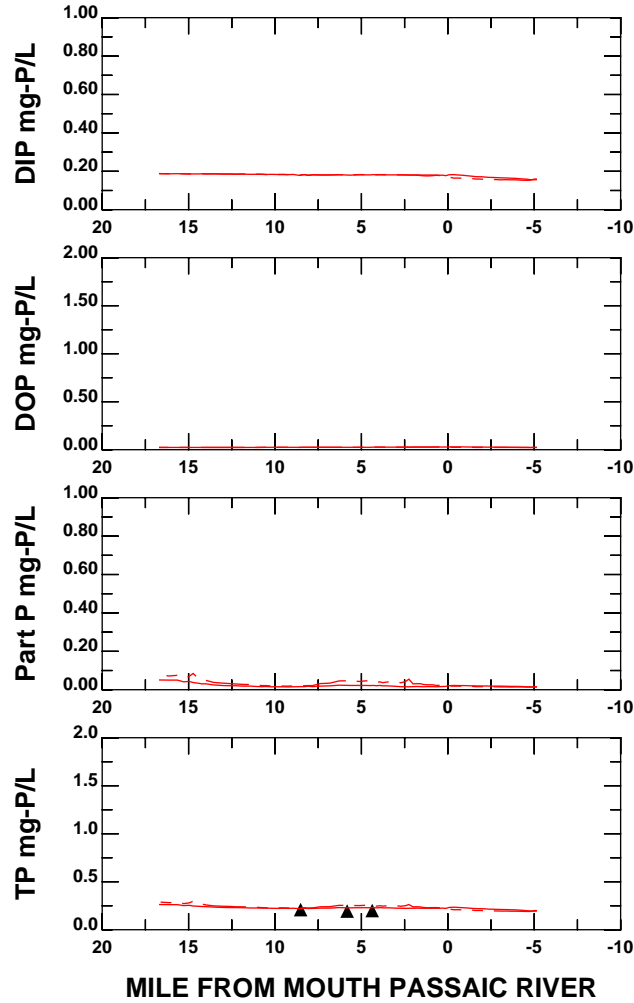
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



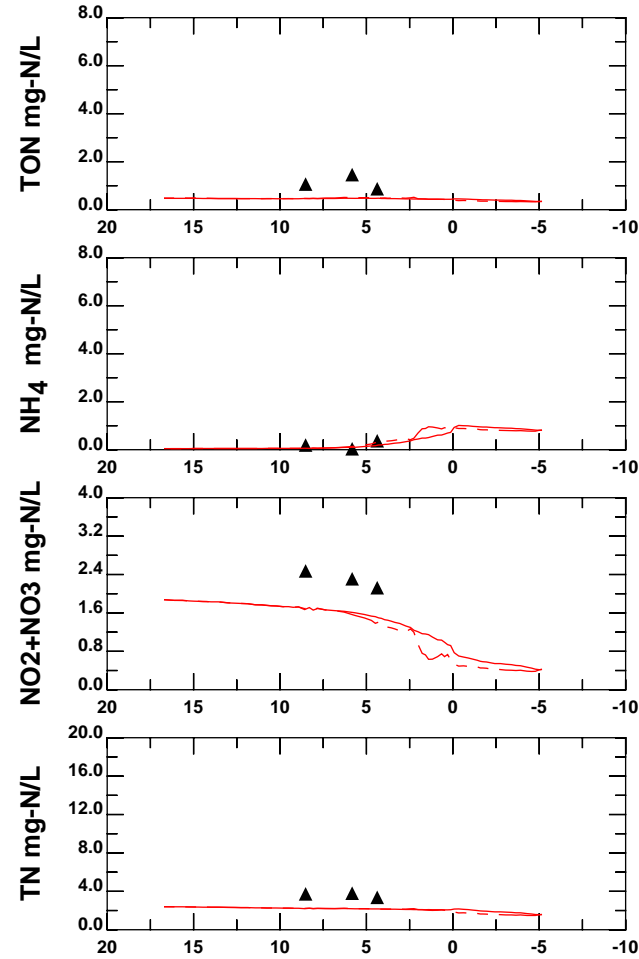
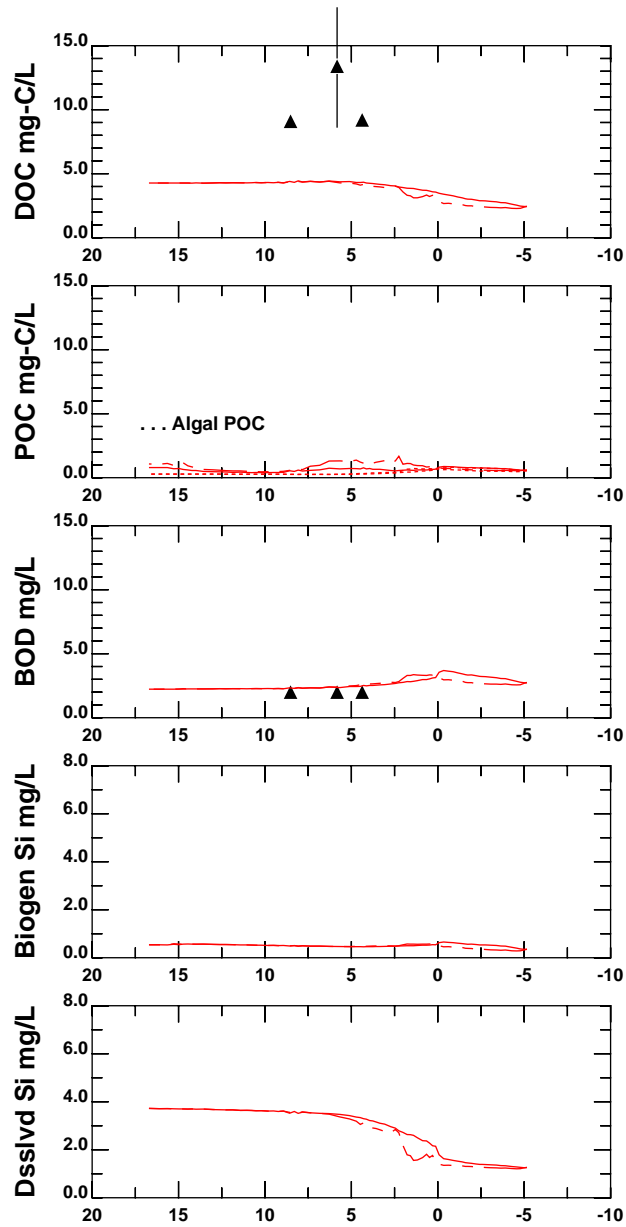
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Jan 30,2008

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



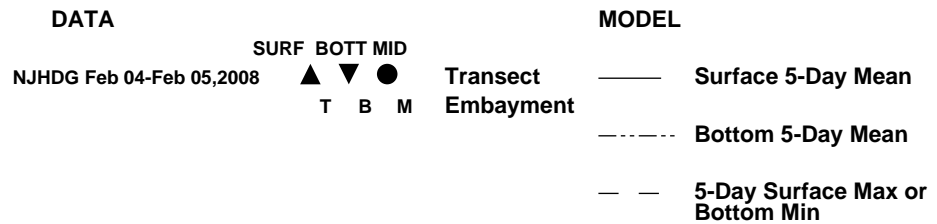
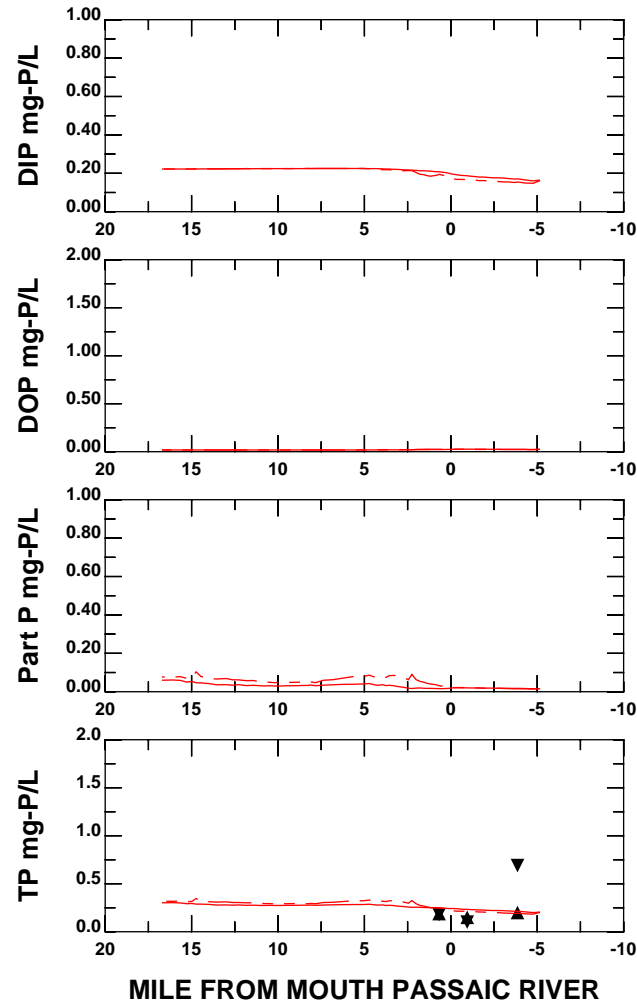
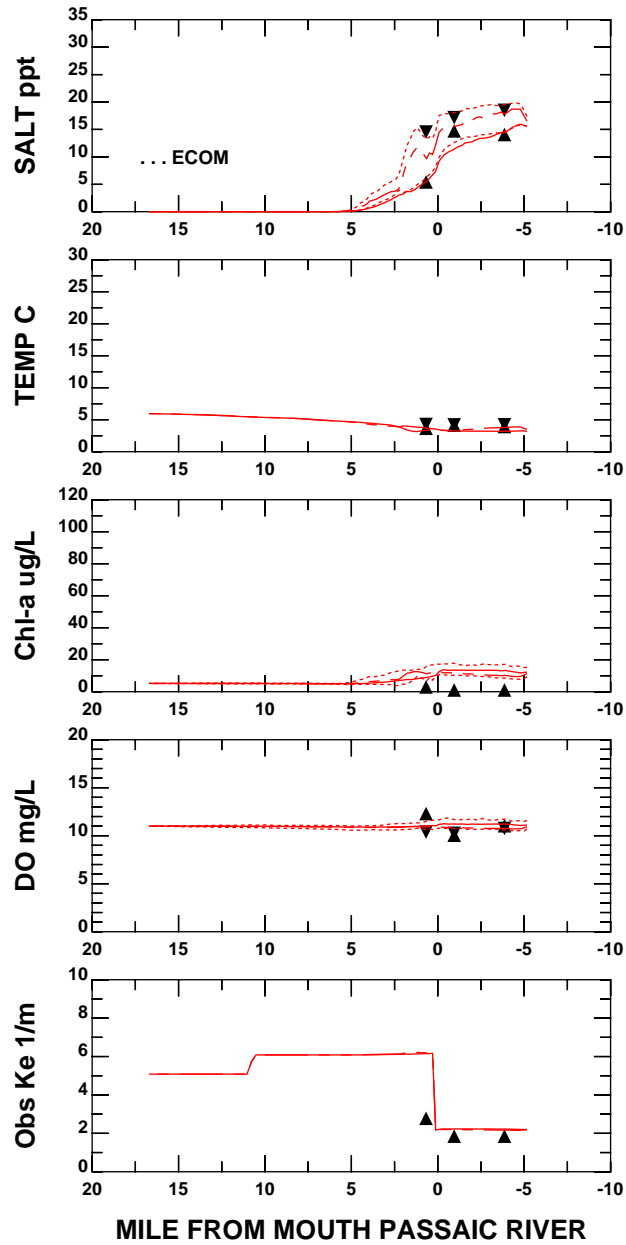
DATA  
NJHDG Jan 30, 2008

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

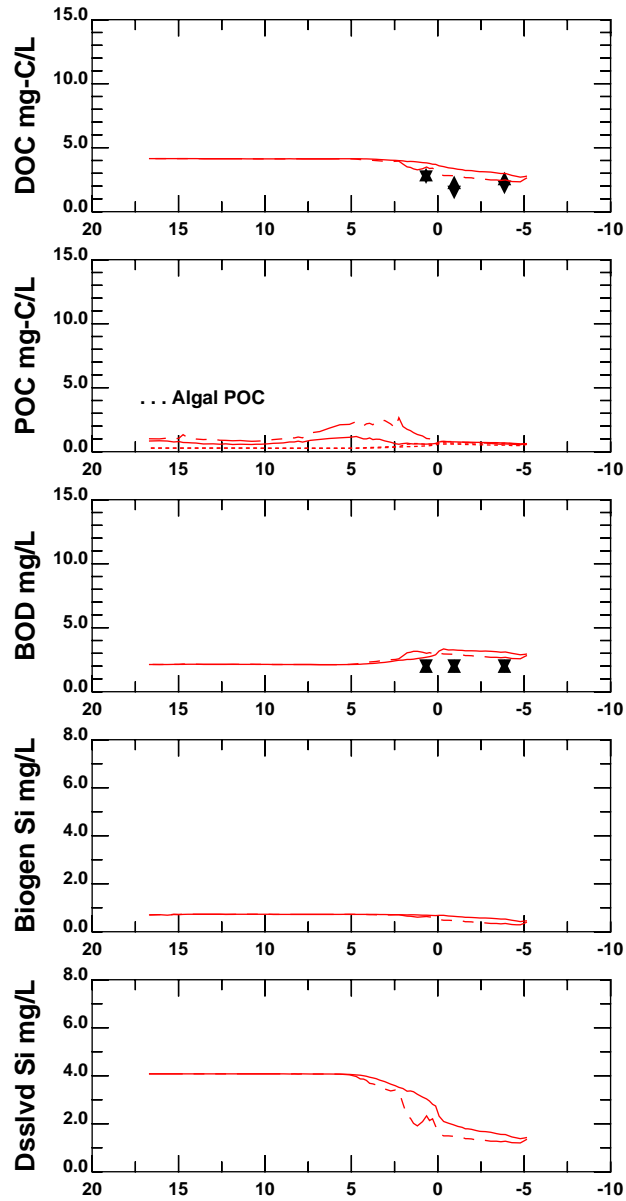
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708

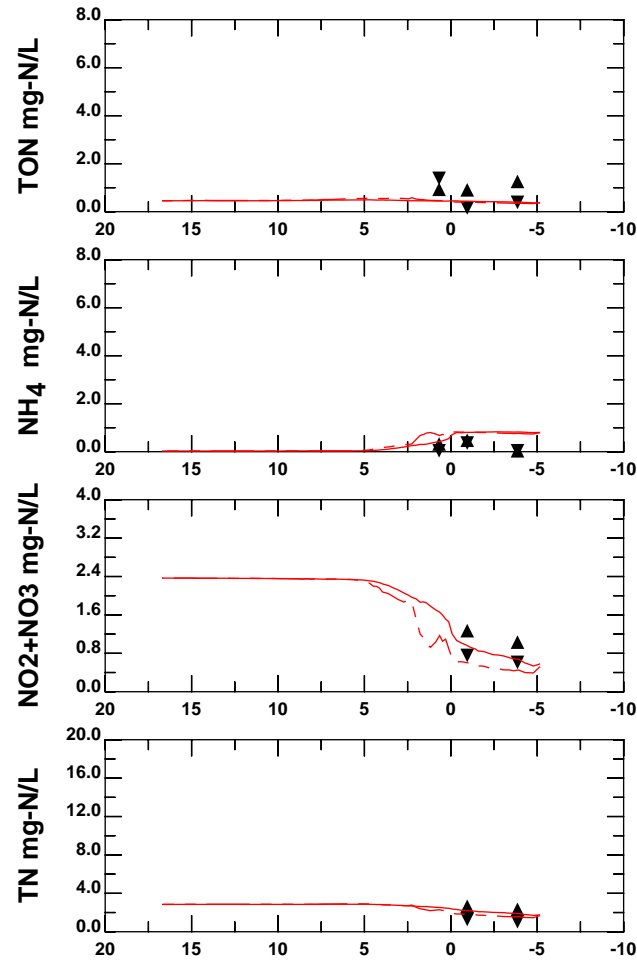


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

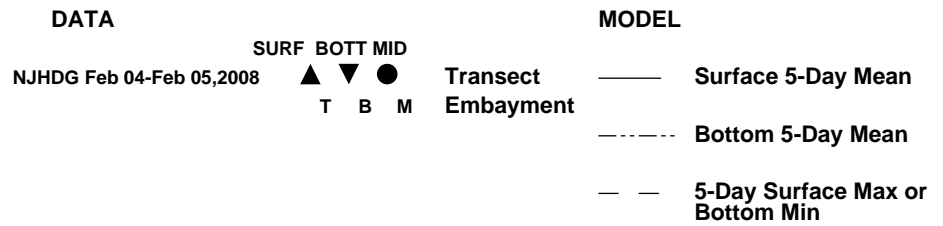




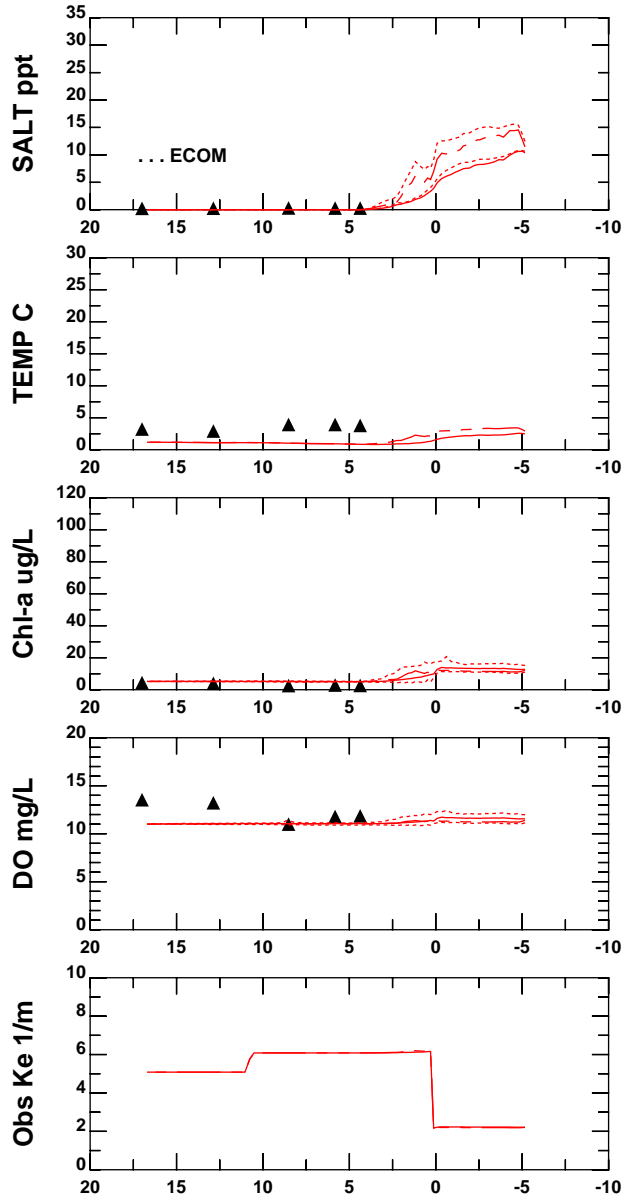
MILE FROM MOUTH PASSAIC RIVER



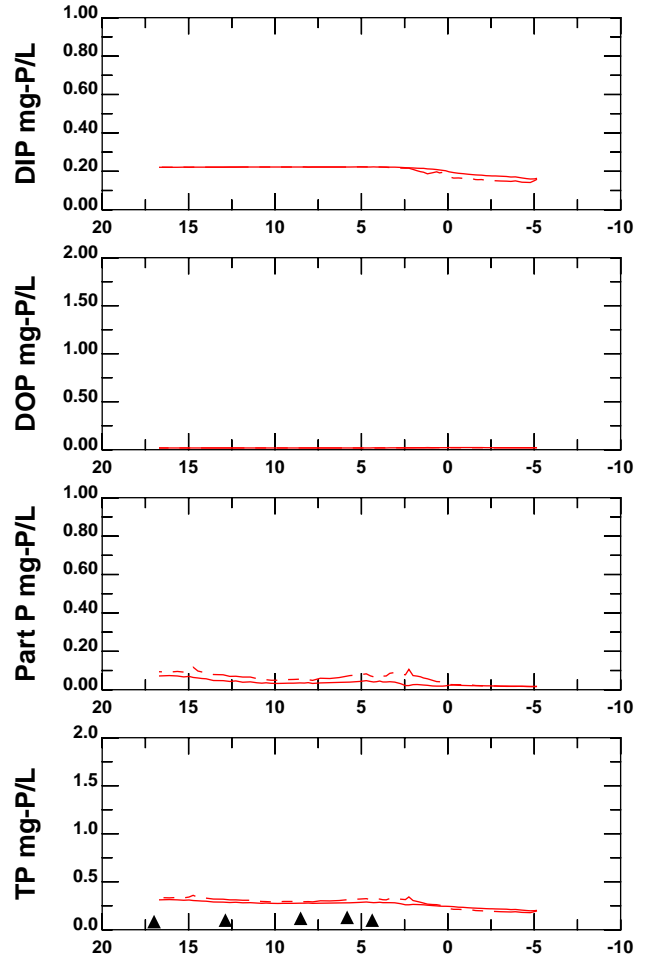
MILE FROM MOUTH PASSAIC RIVER



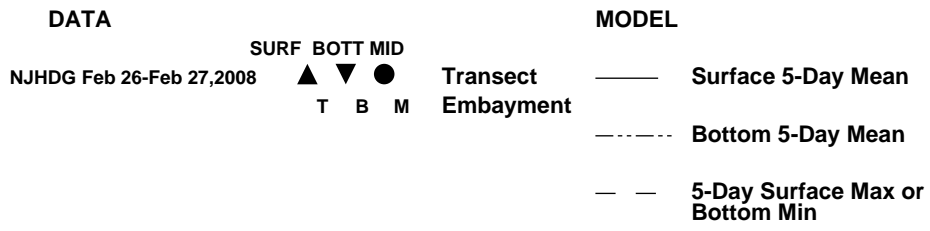
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



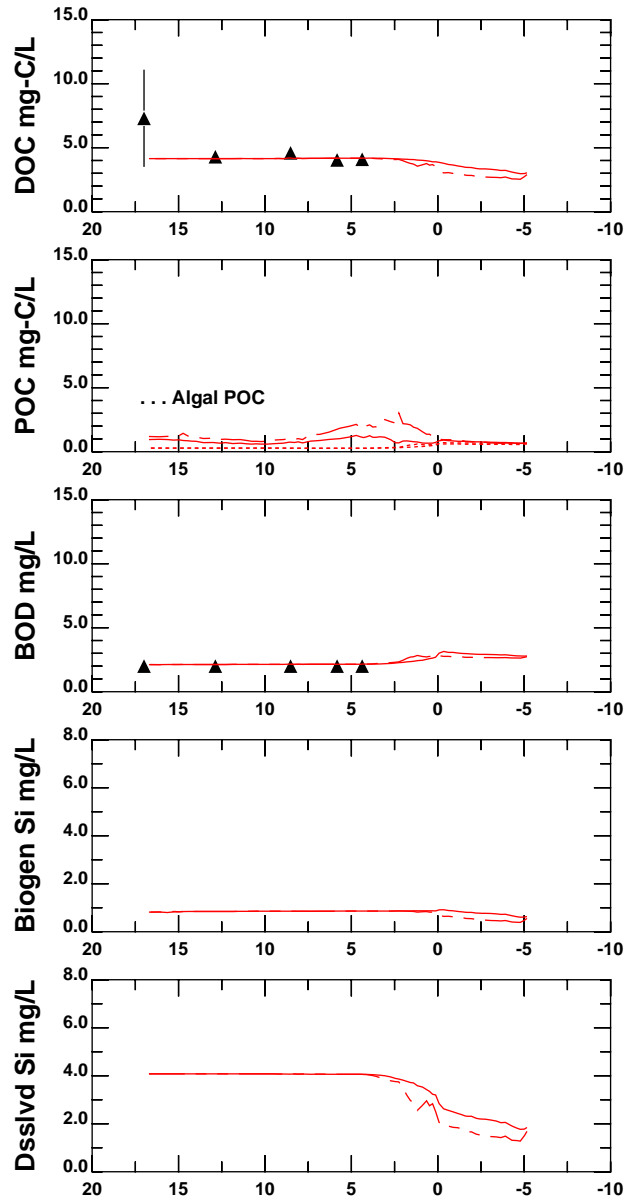
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



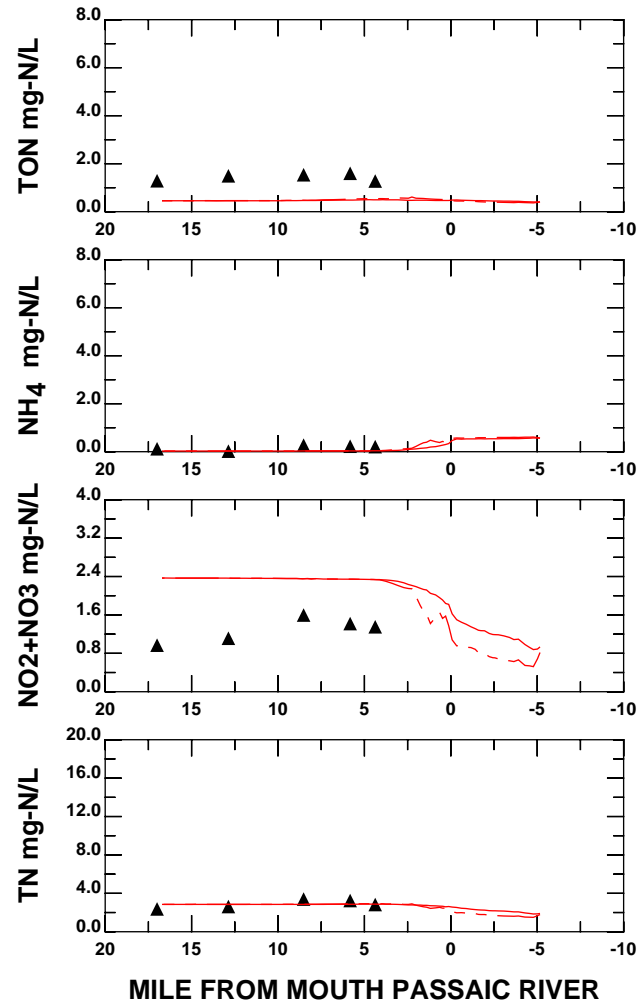
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



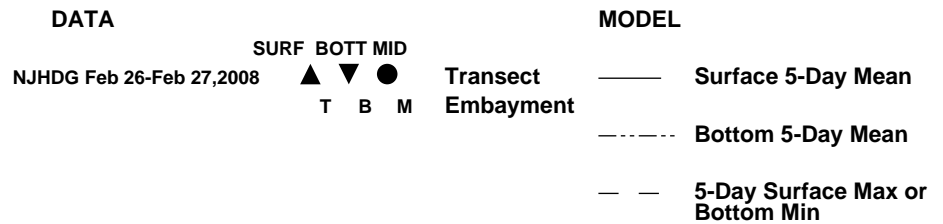
MILE FROM MOUTH PASSAIC RIVER

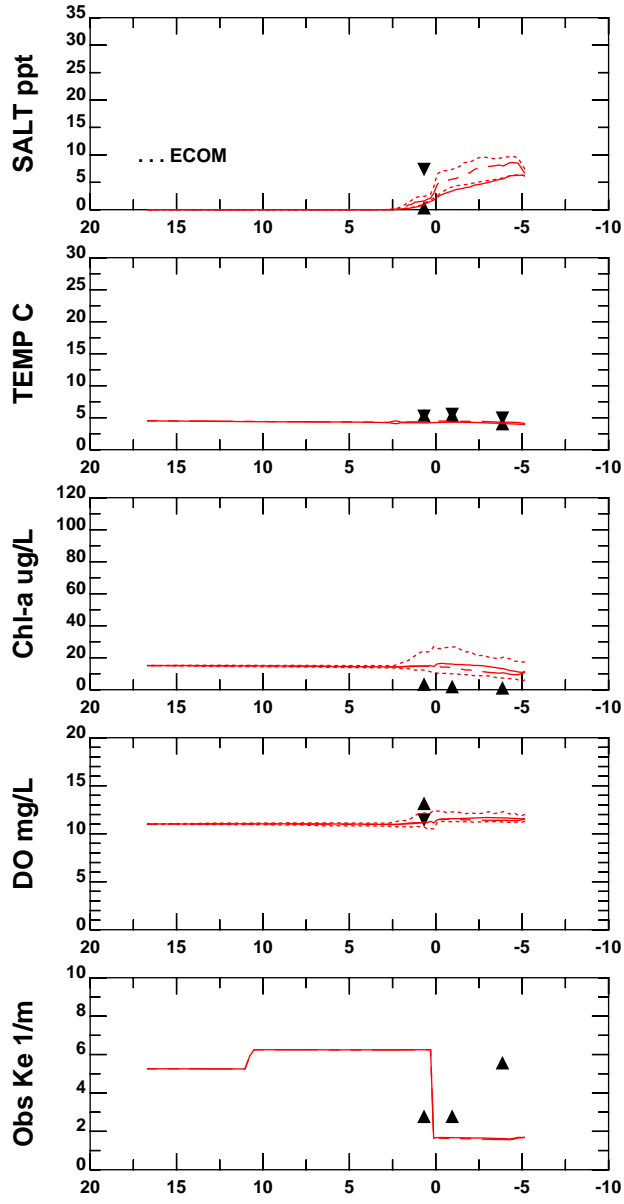
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



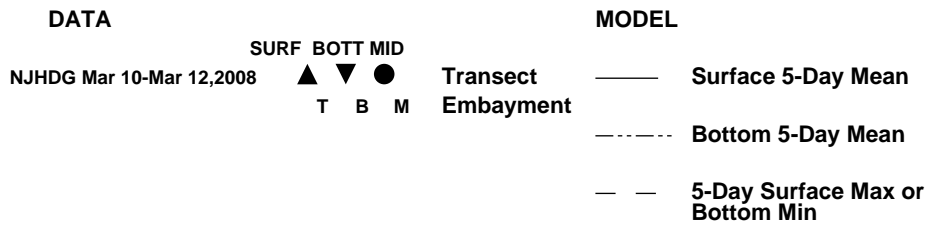
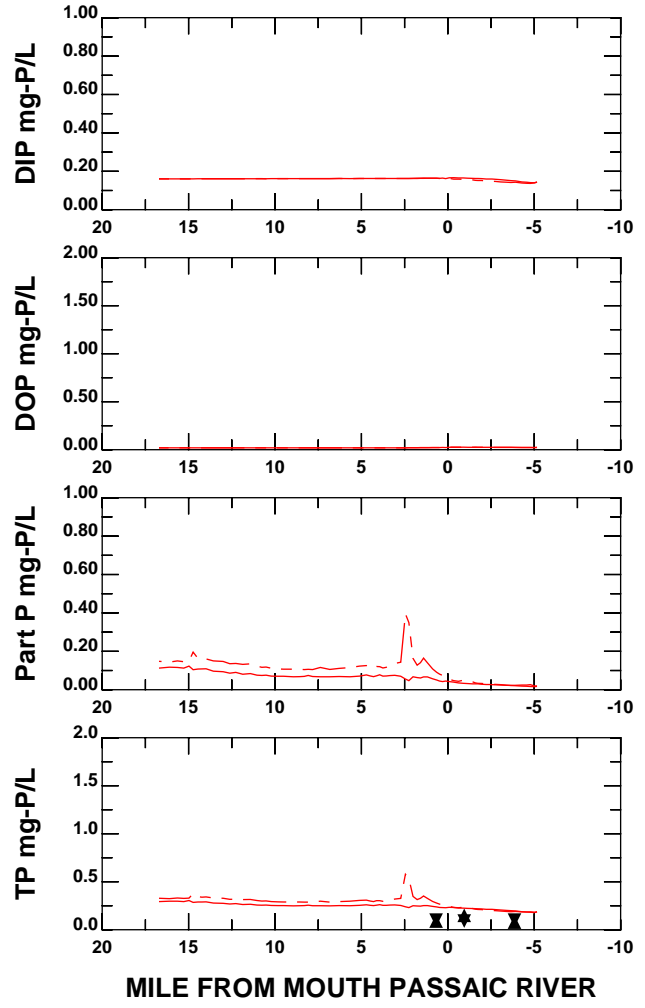
MILE FROM MOUTH PASSAIC RIVER

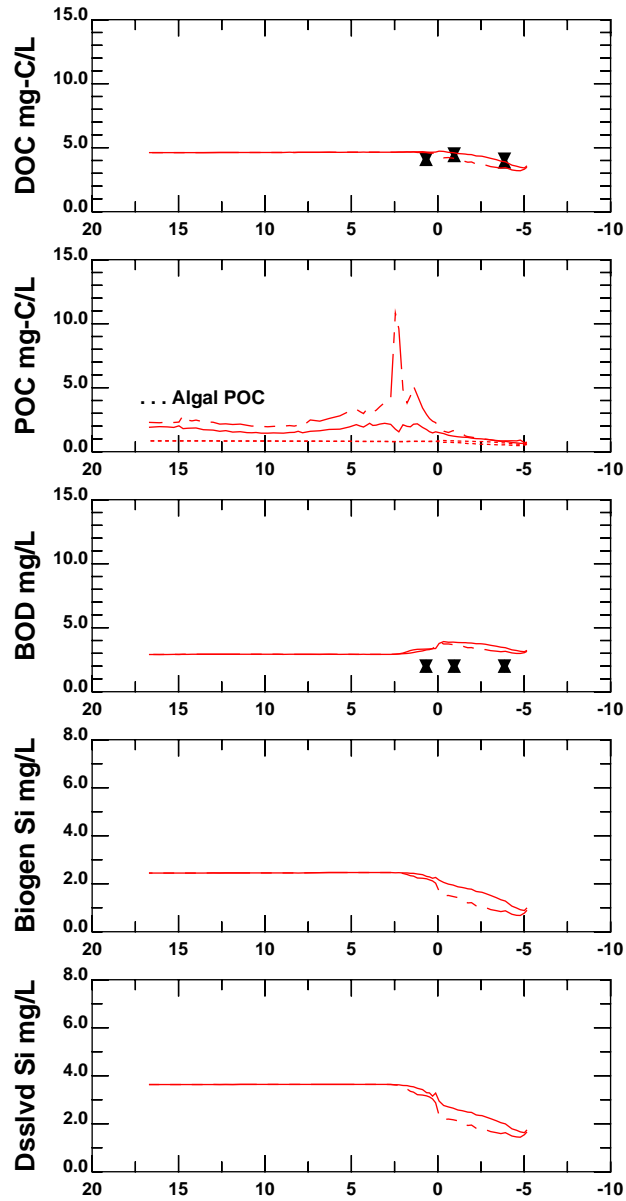




MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

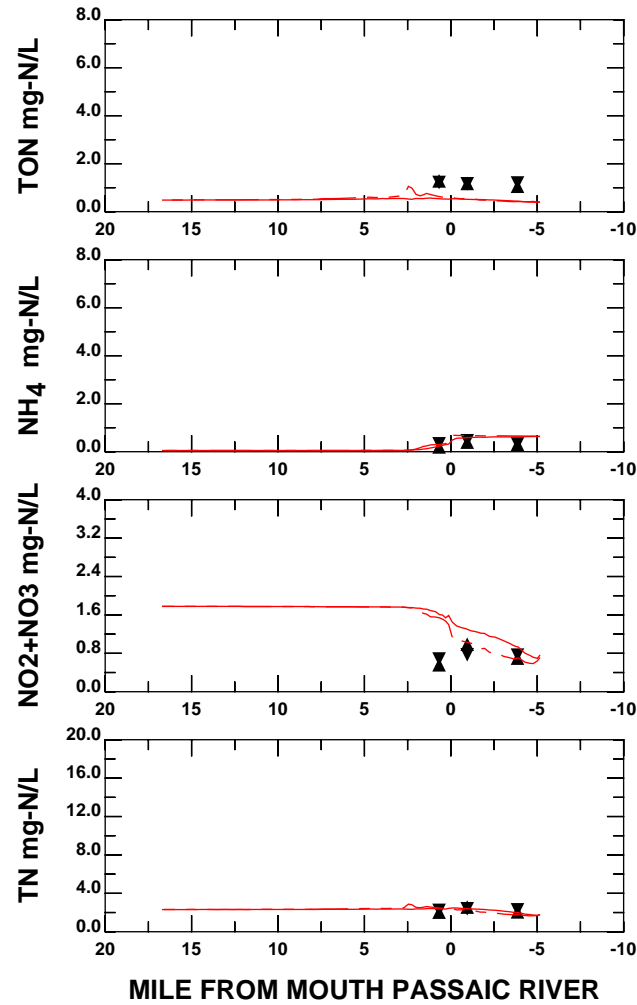




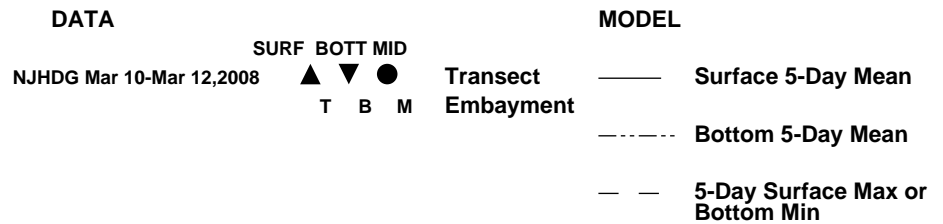
MILE FROM MOUTH PASSAIC RIVER

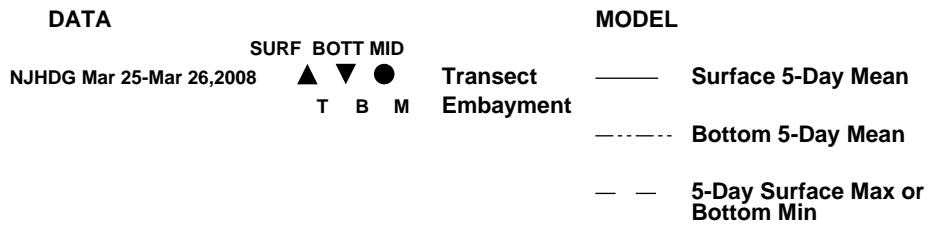
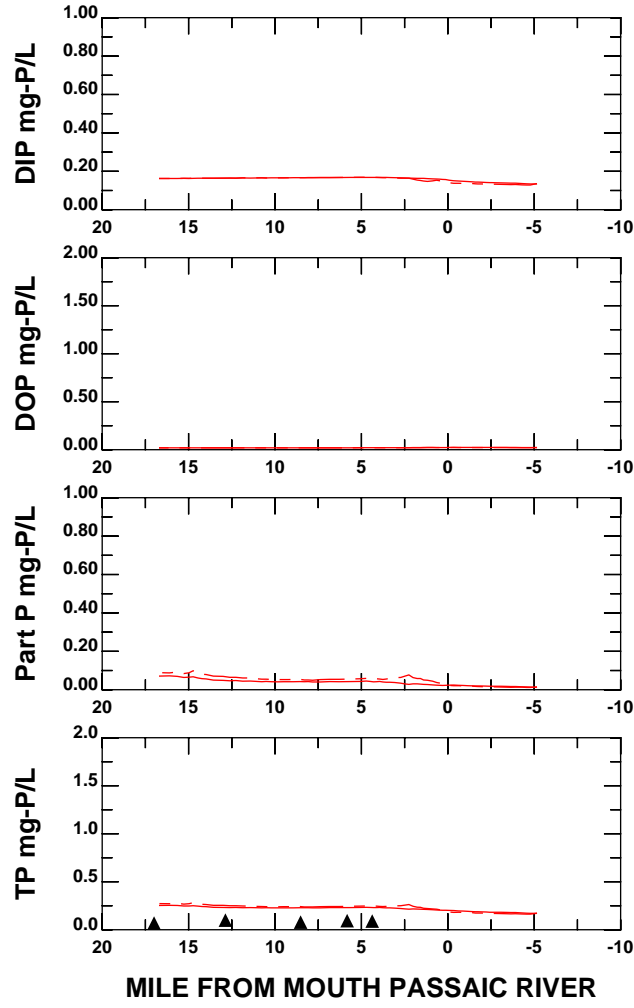
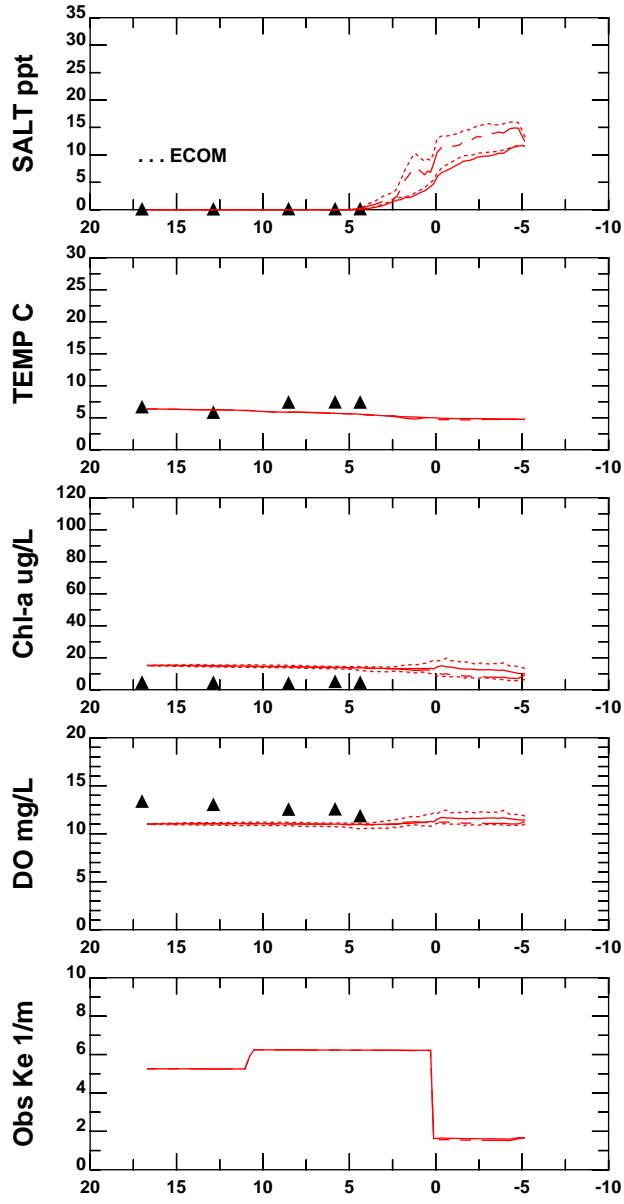
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708

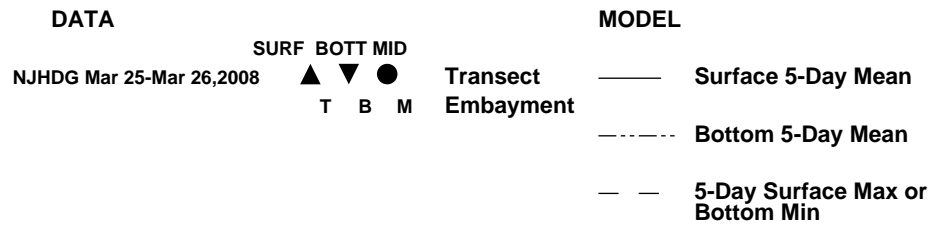
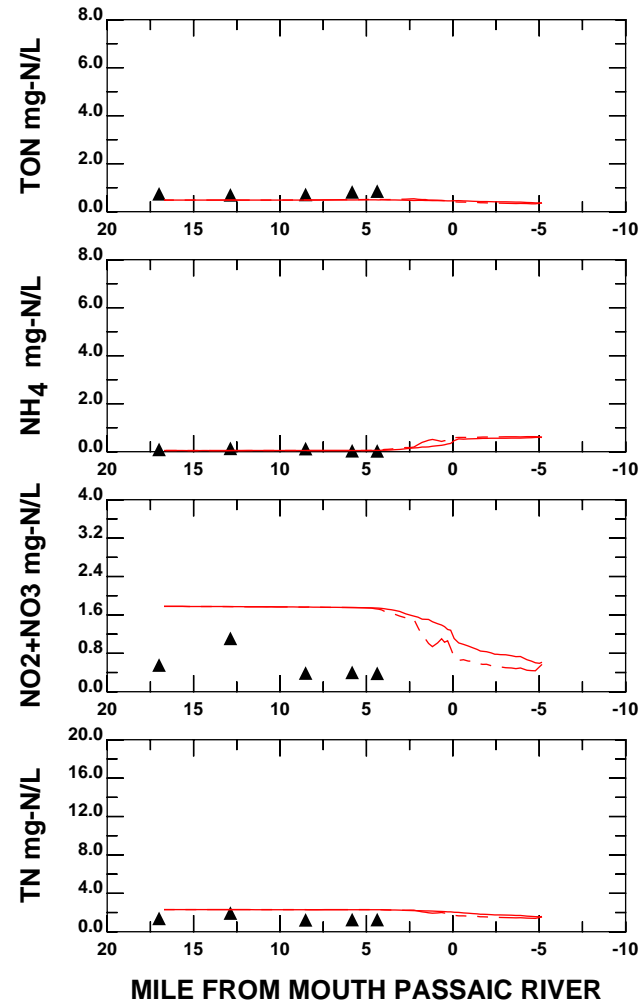
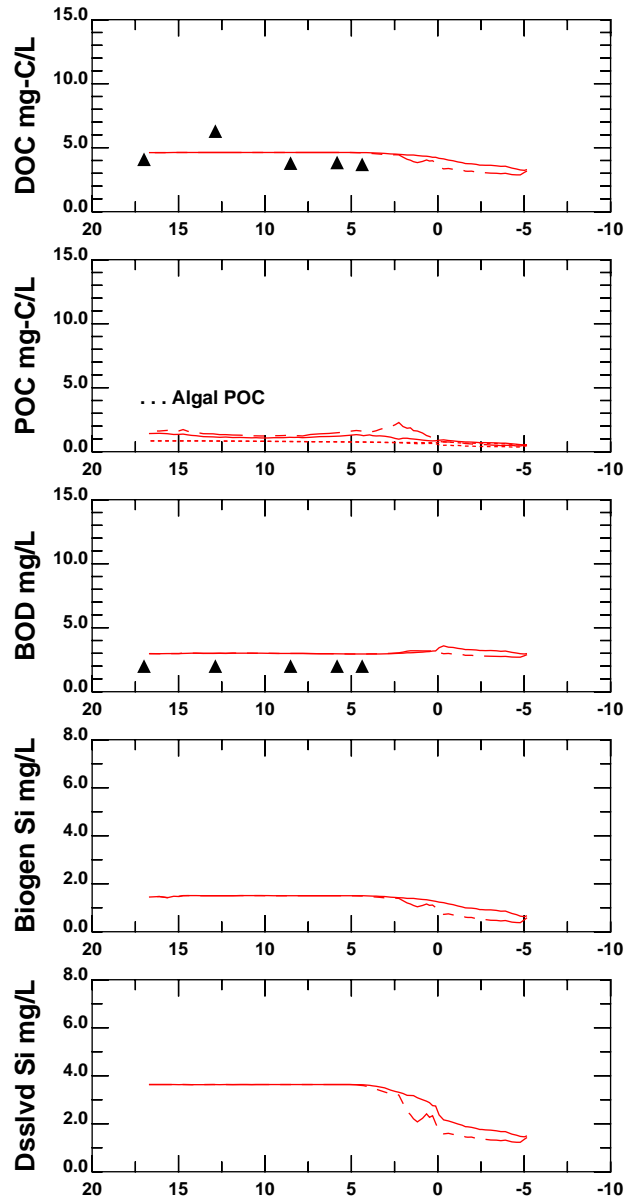


MILE FROM MOUTH PASSAIC RIVER

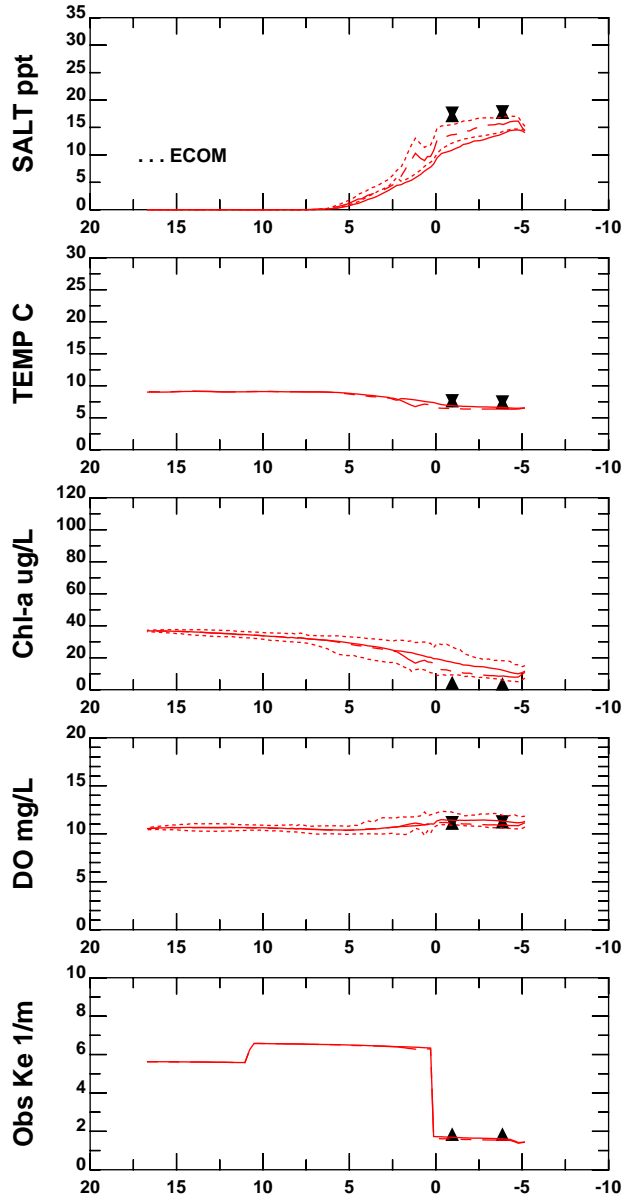




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

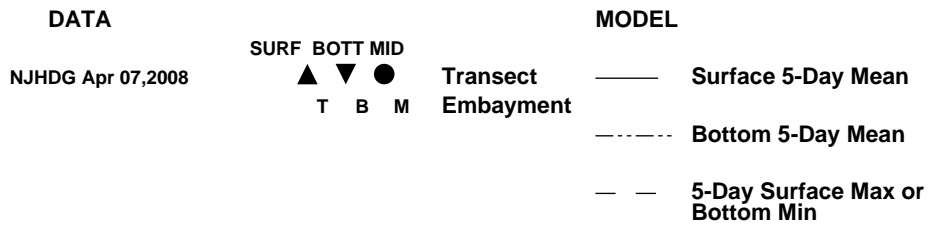
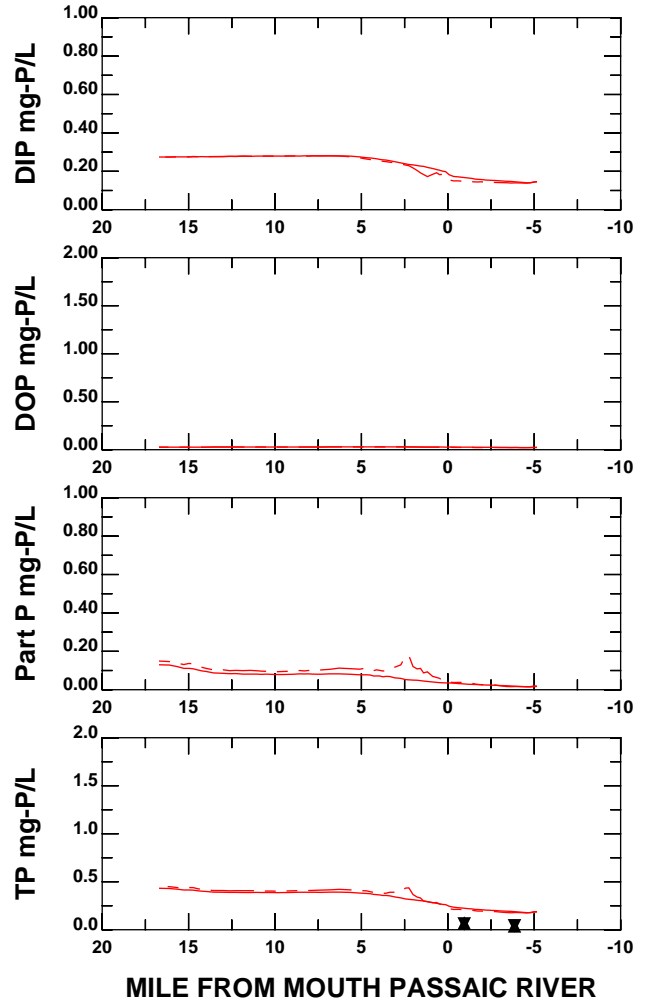


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

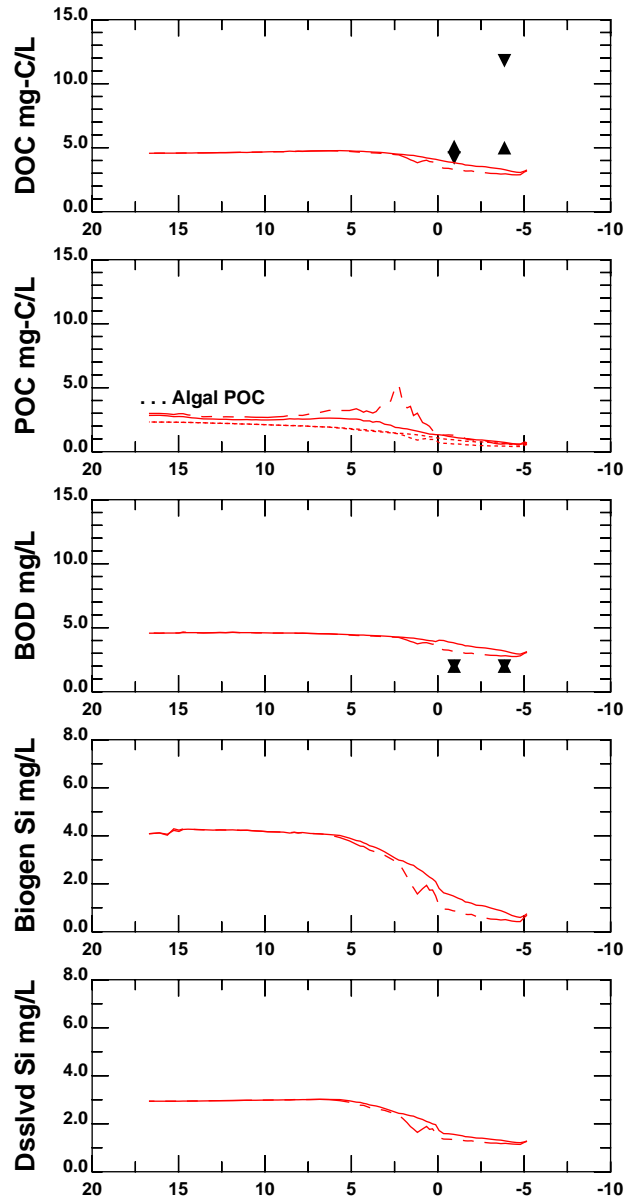


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



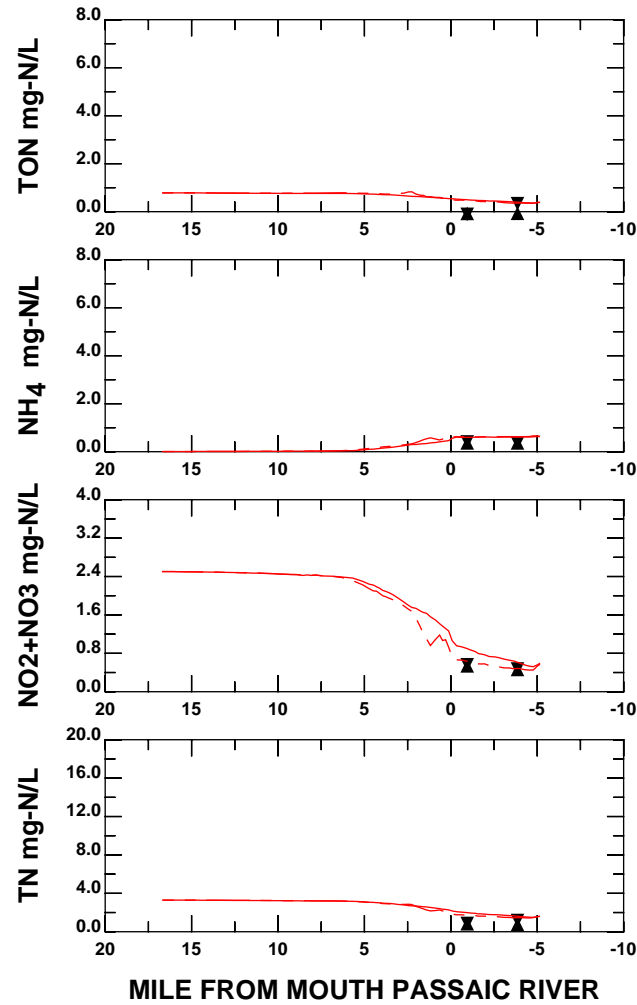




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Apr 07,2008

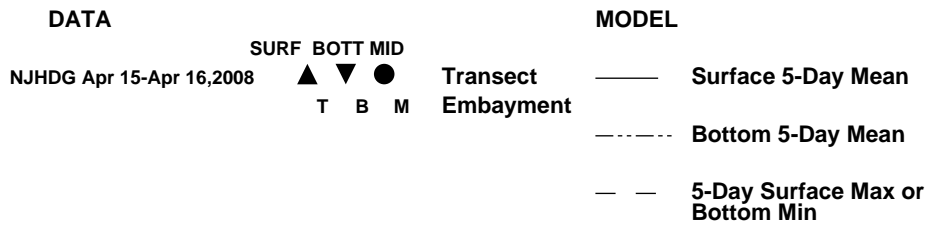
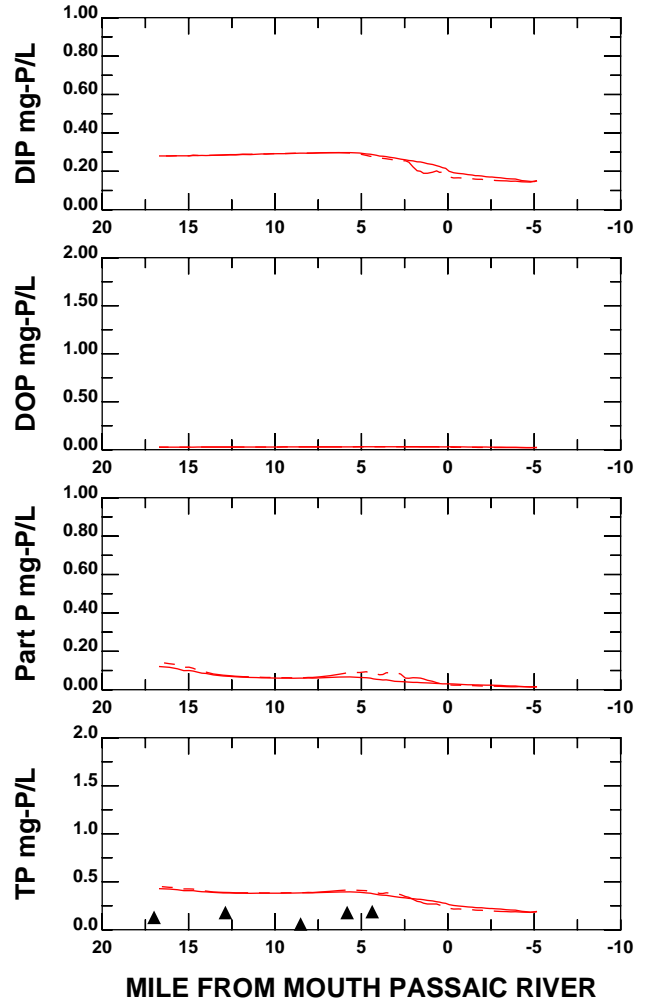
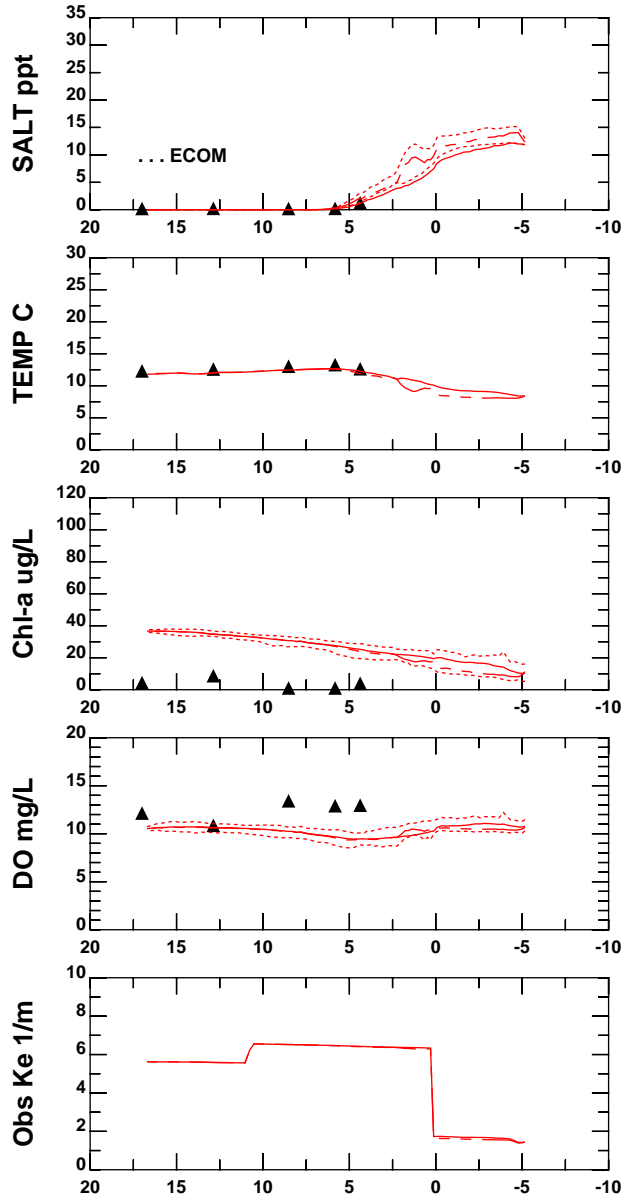
SURF BOTT MID

▲ ▼ ●  
T B M

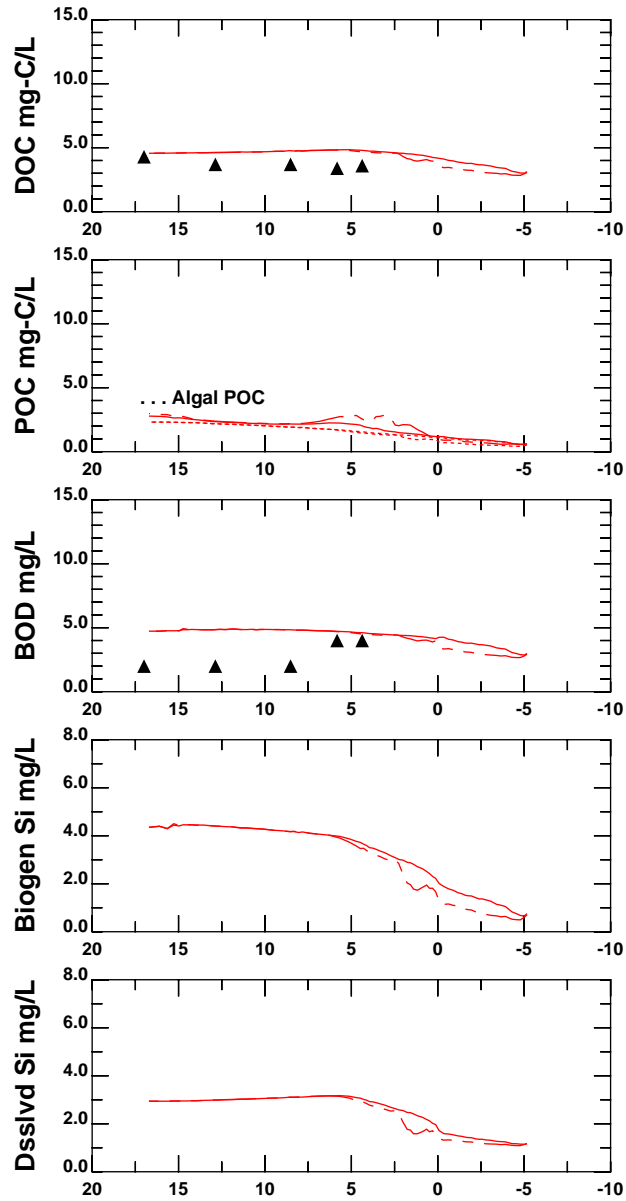
Transect  
Embayment

#### MODEL

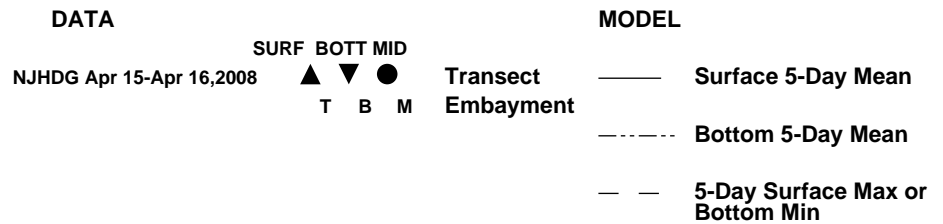
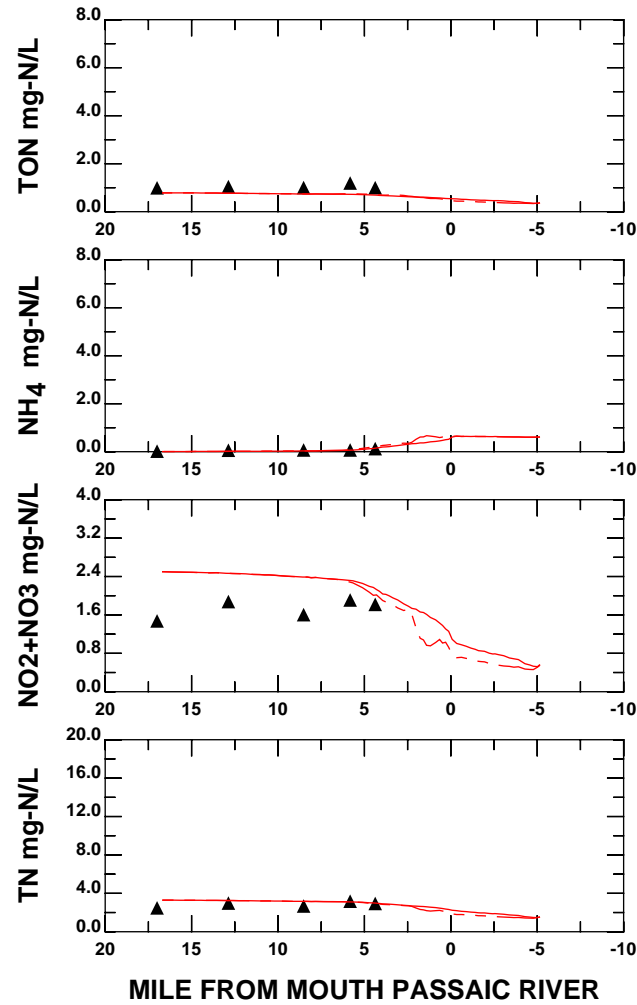
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

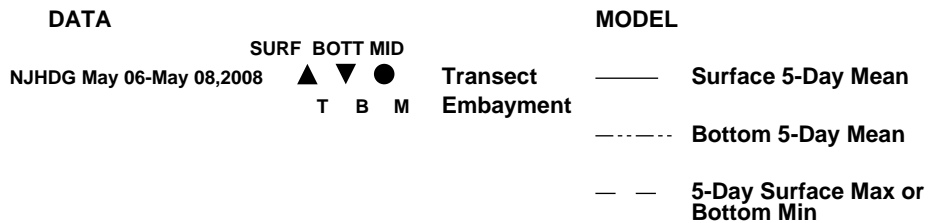
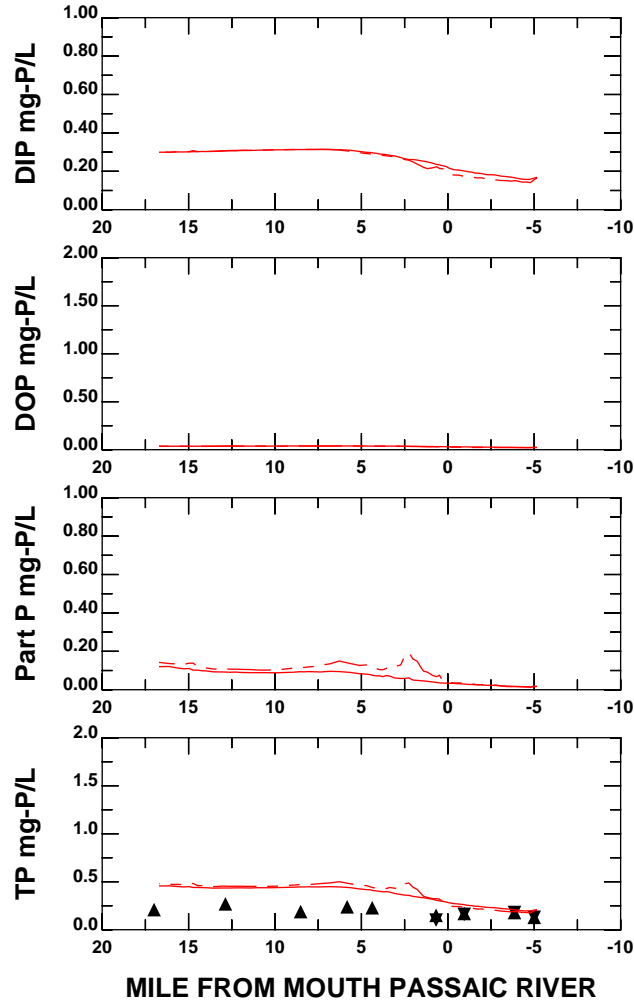
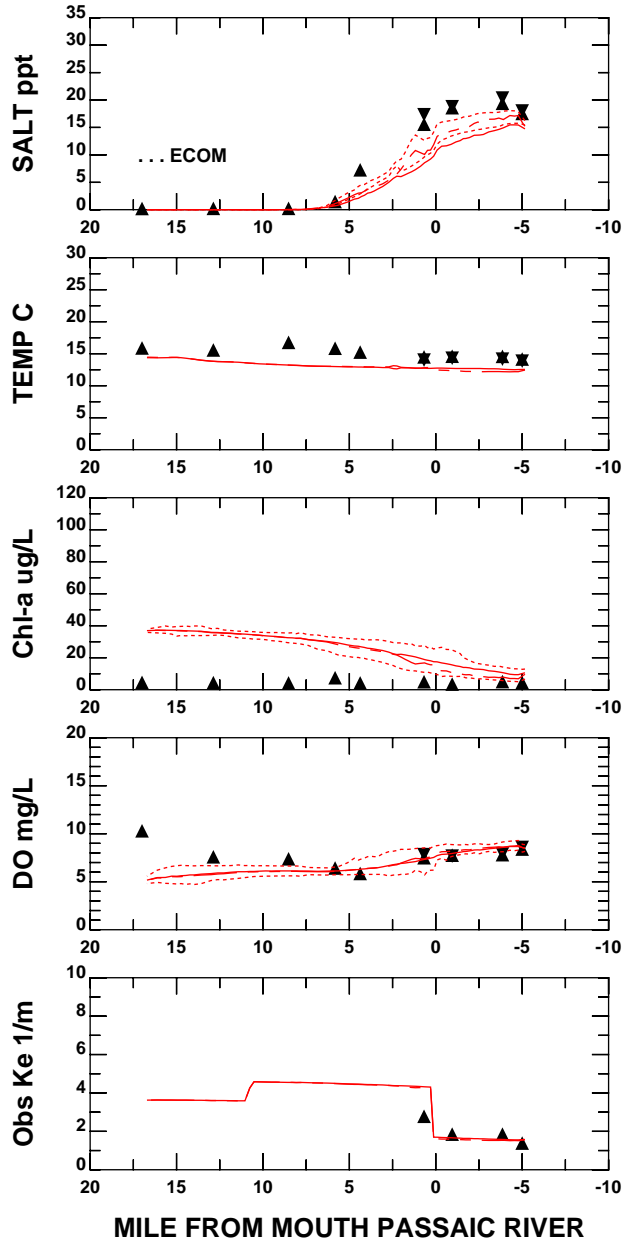


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

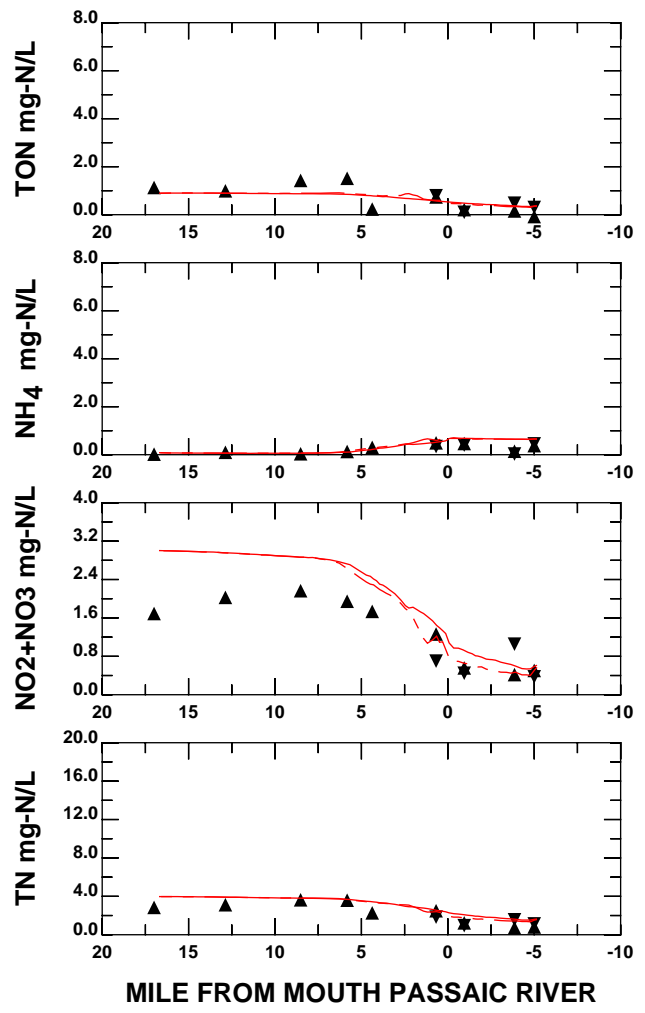
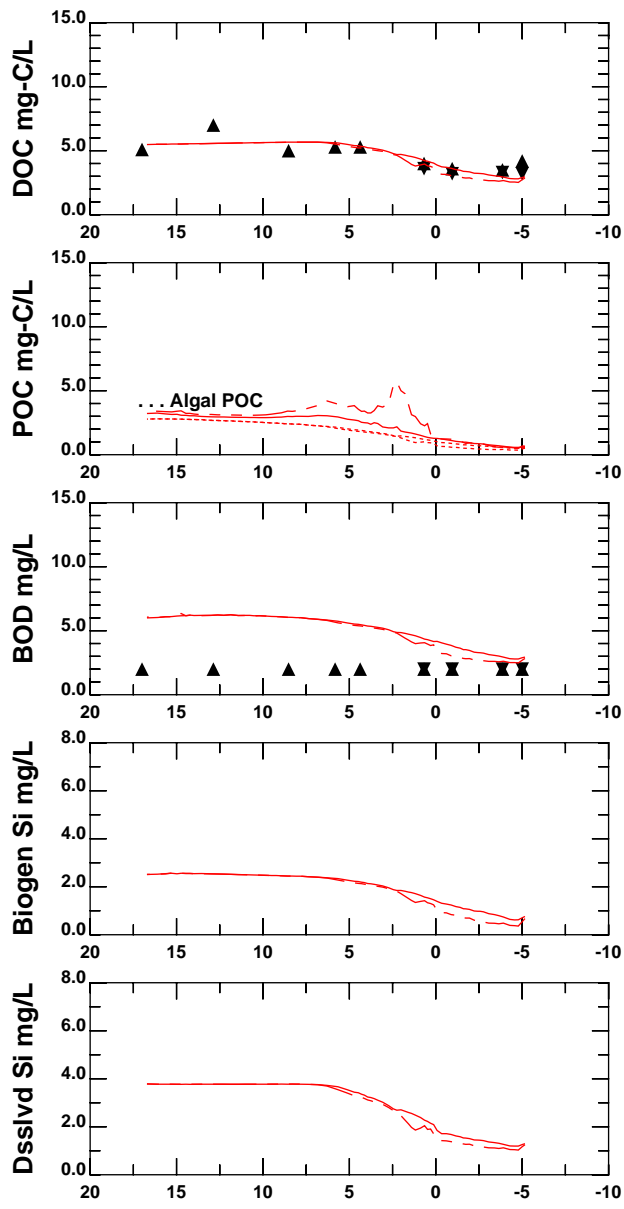


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**DATA**  
 NJHDG May 06-May 08,2008

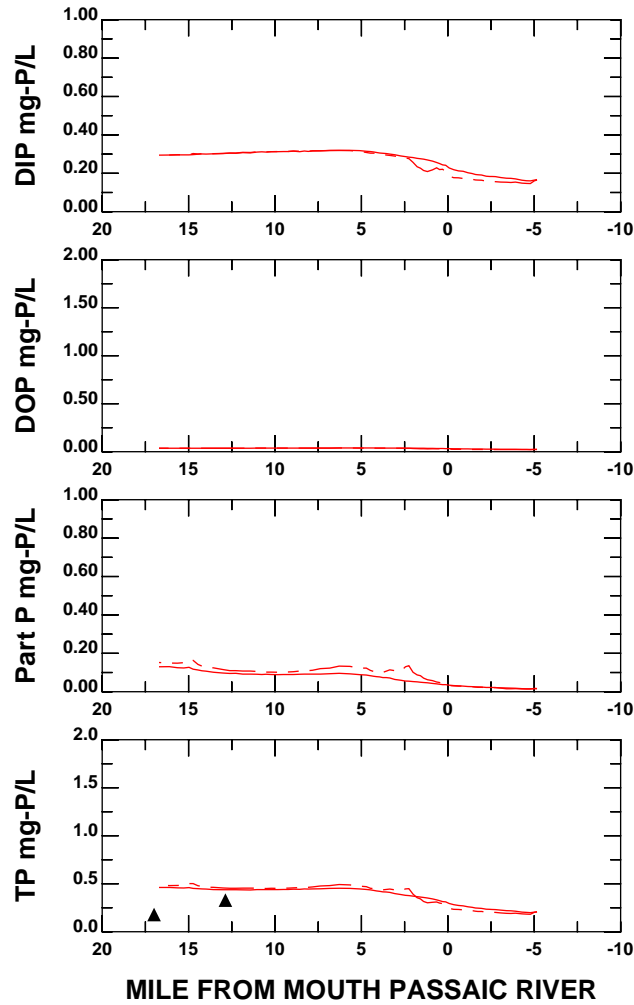
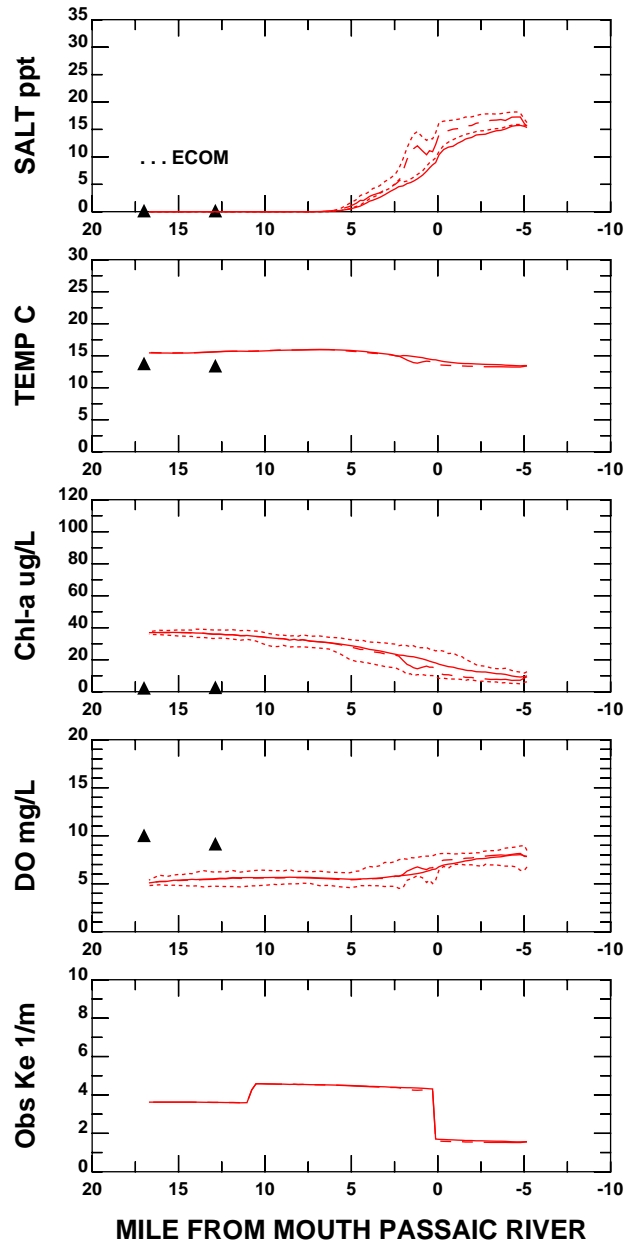
**MODEL**

SURF BOTT MID  
 ▲ ▼ ●  
 T B M

Transect  
 Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



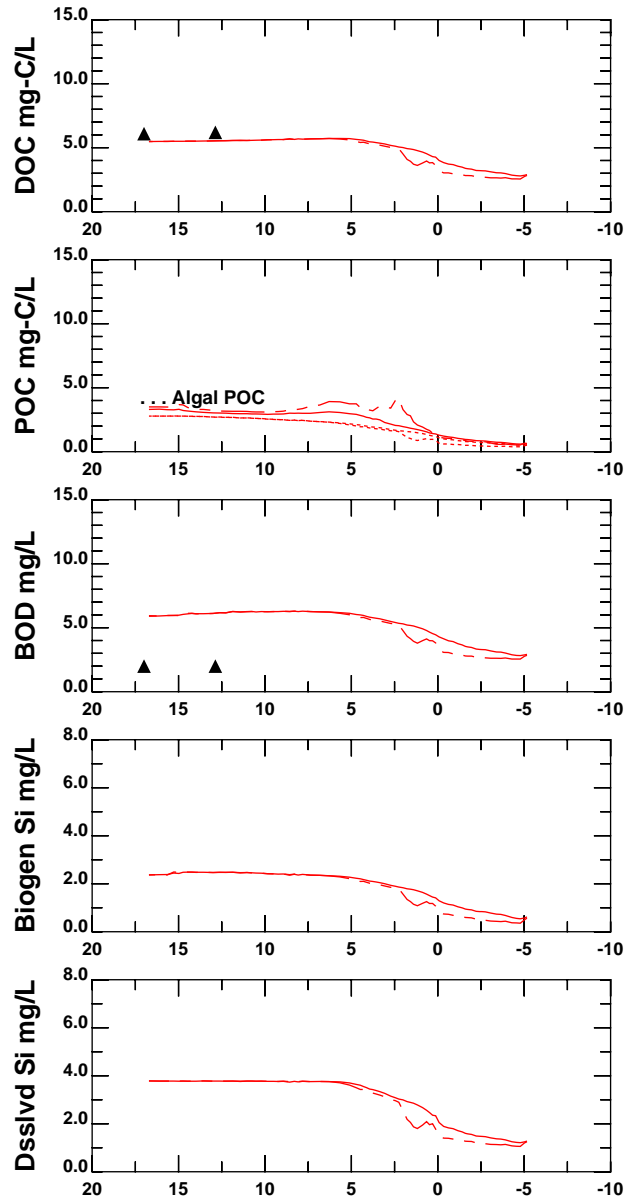
**DATA**  
NJHDG May 13,2008

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

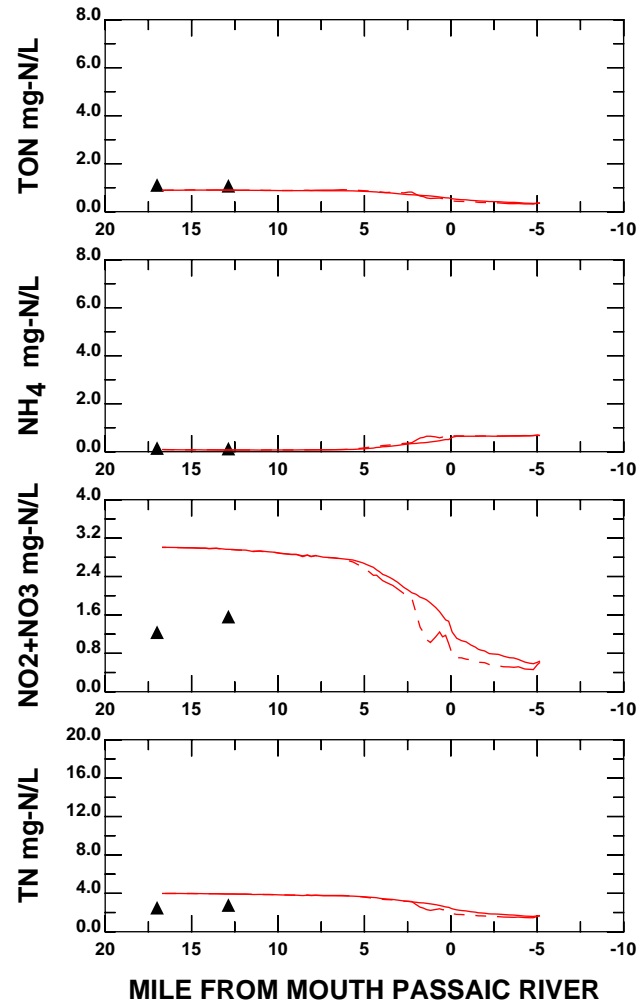
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD May 13,2008

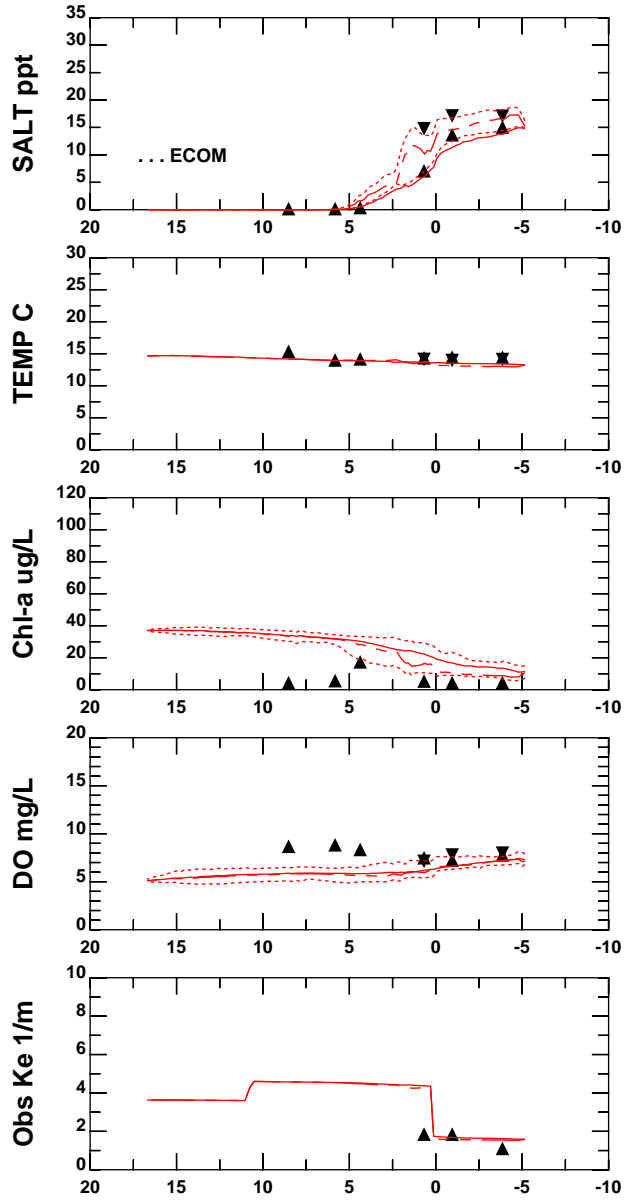
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

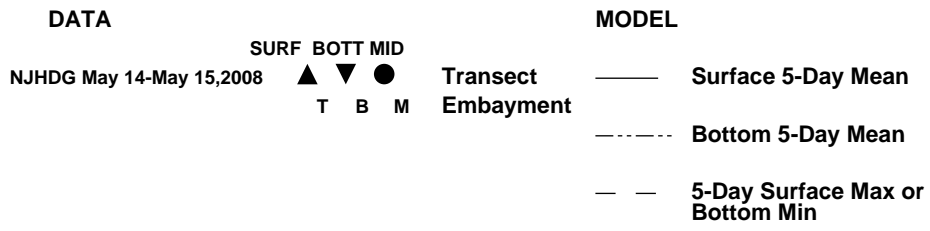
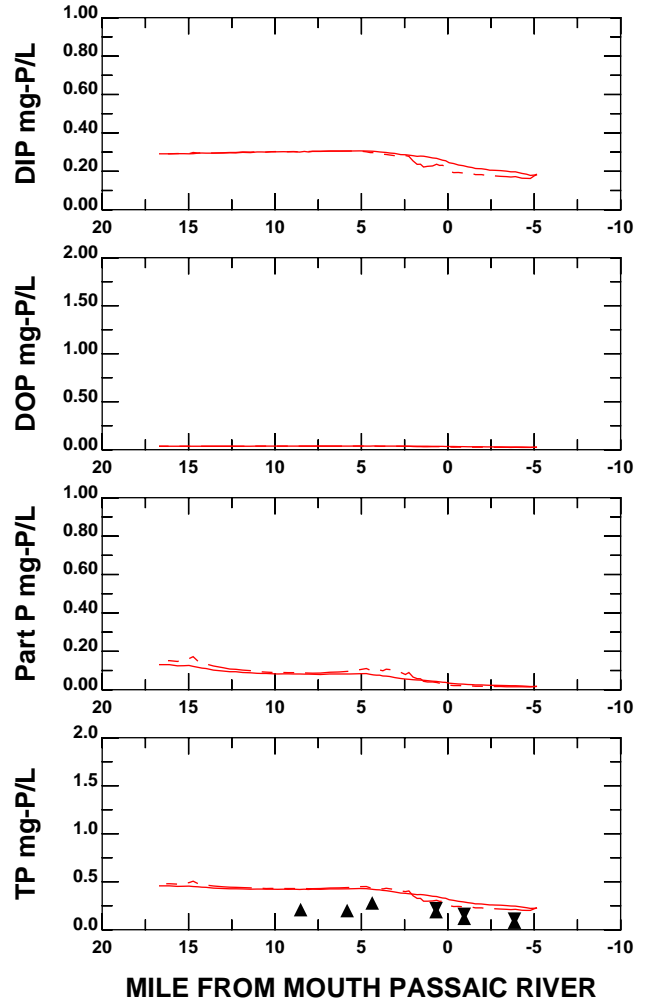
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

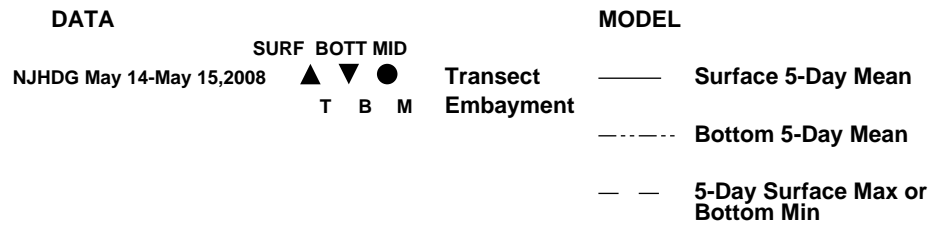
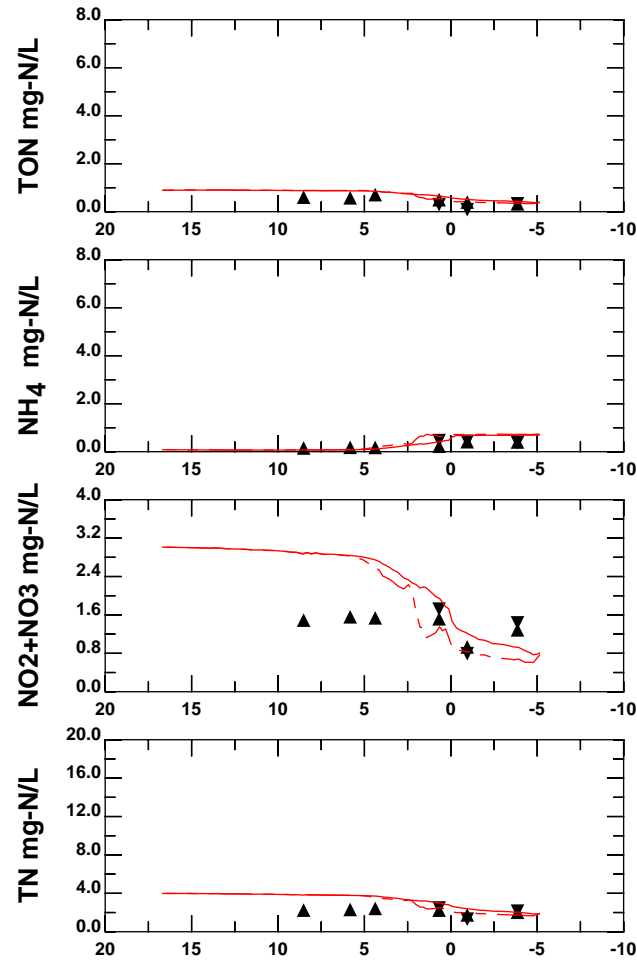
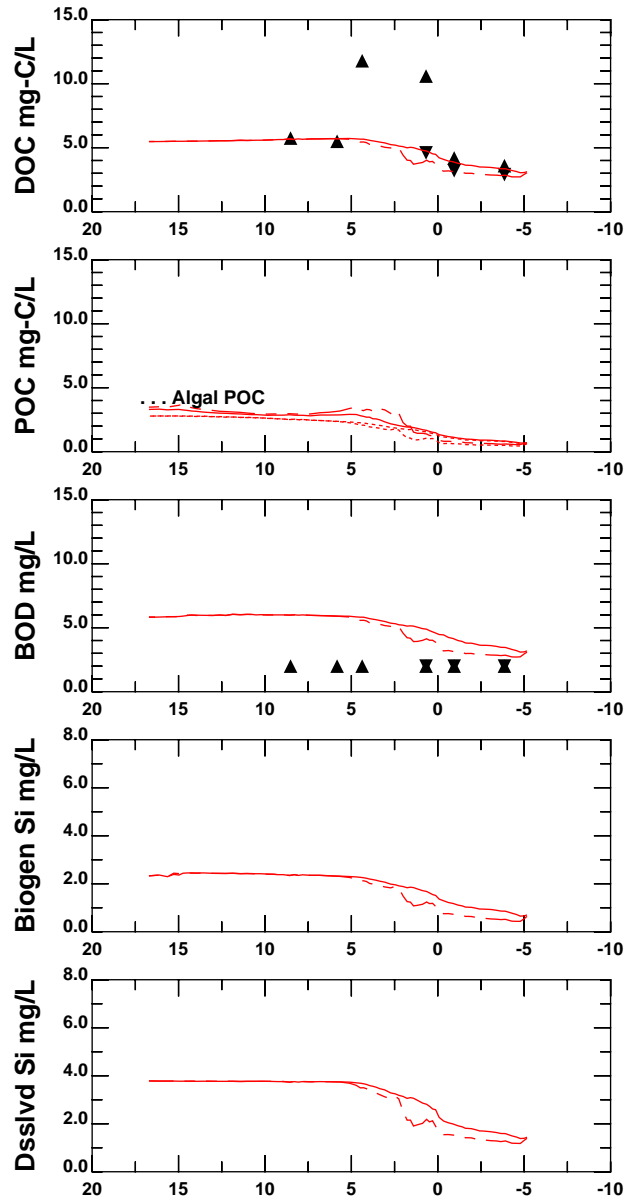


MILE FROM MOUTH PASSAIC RIVER

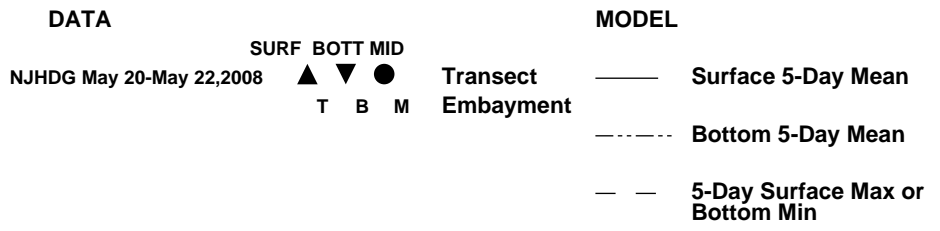
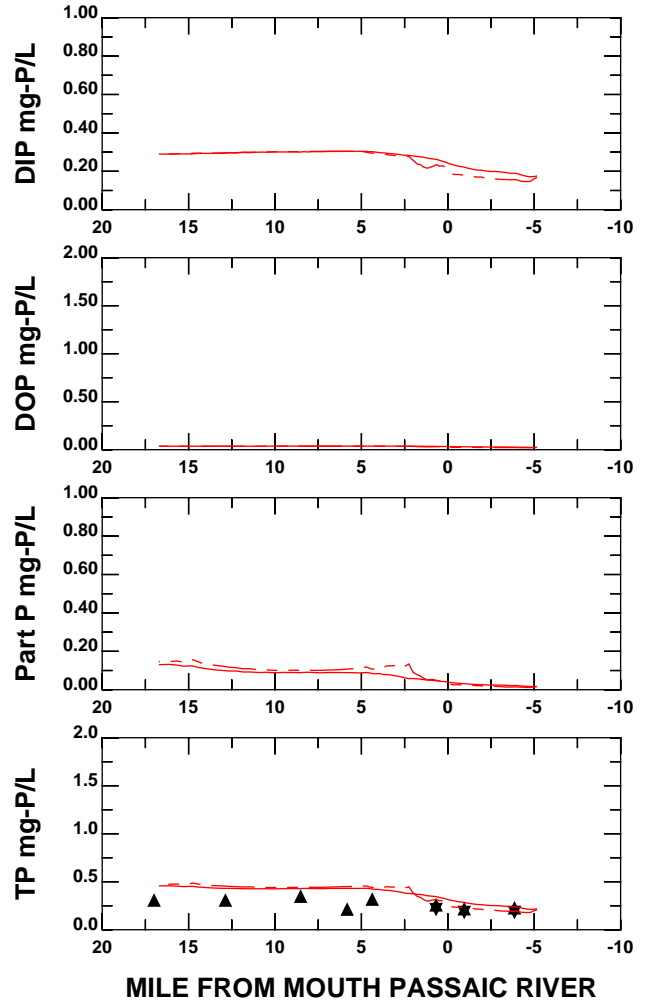
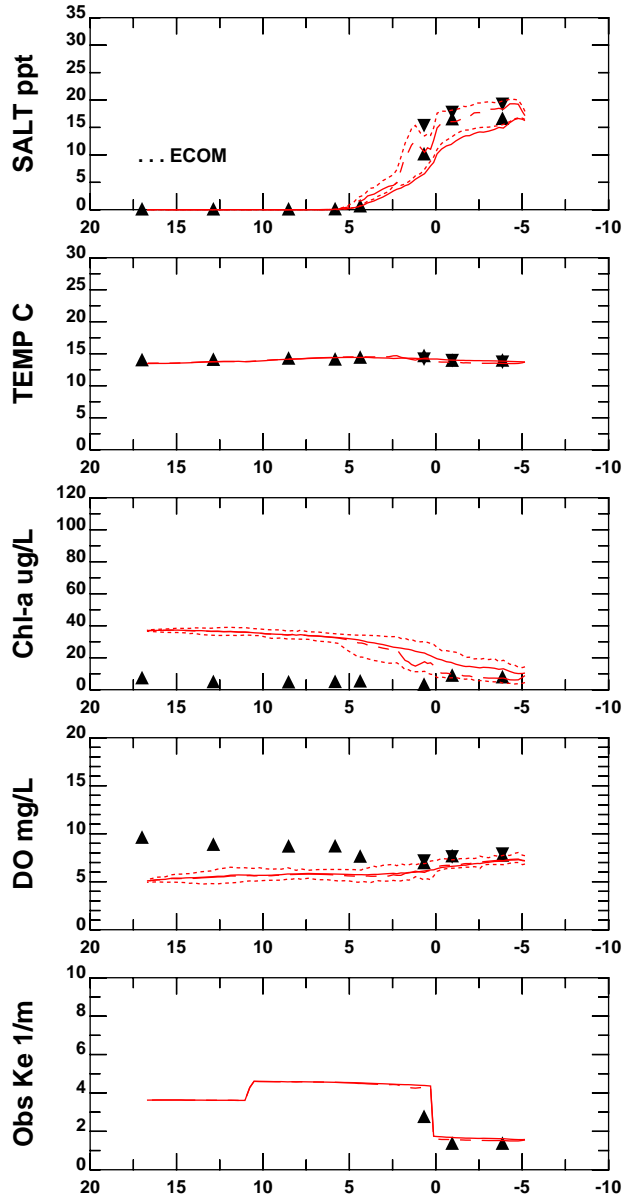
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



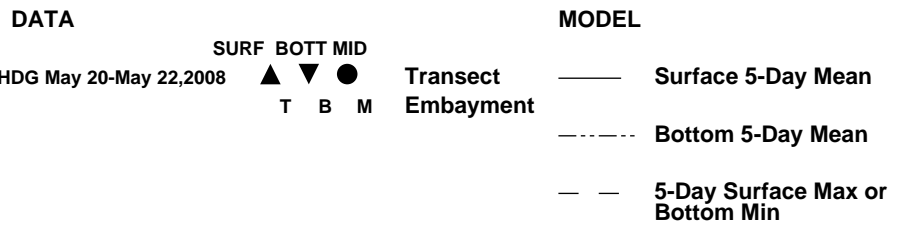
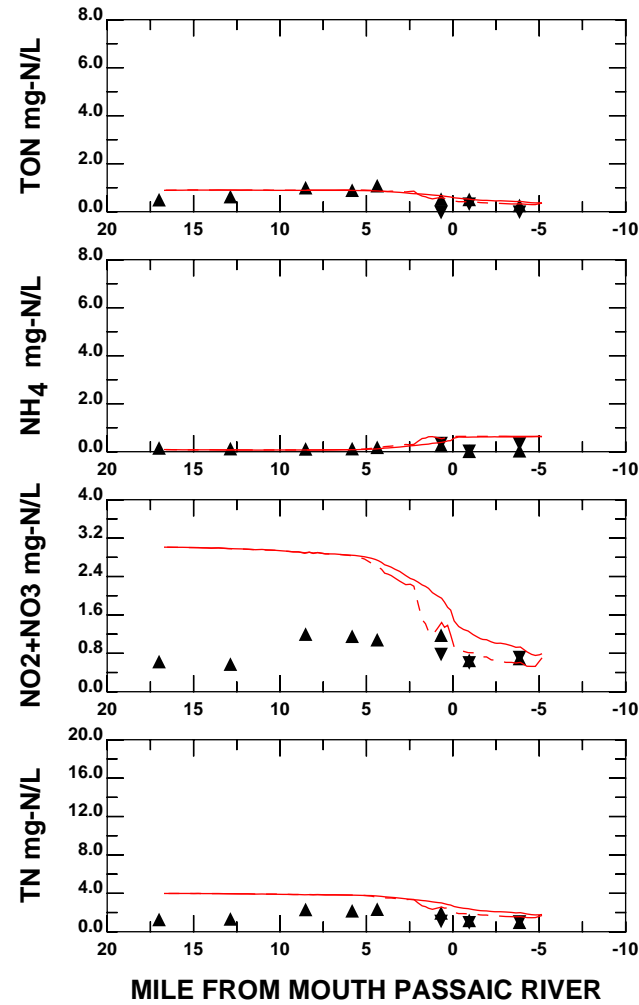
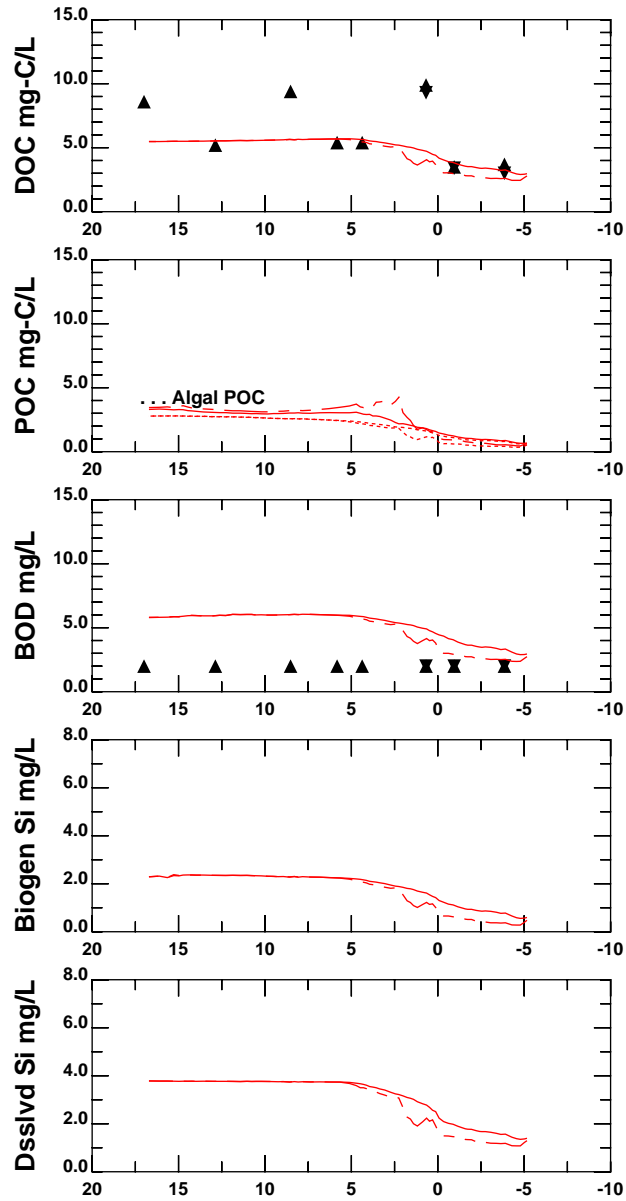




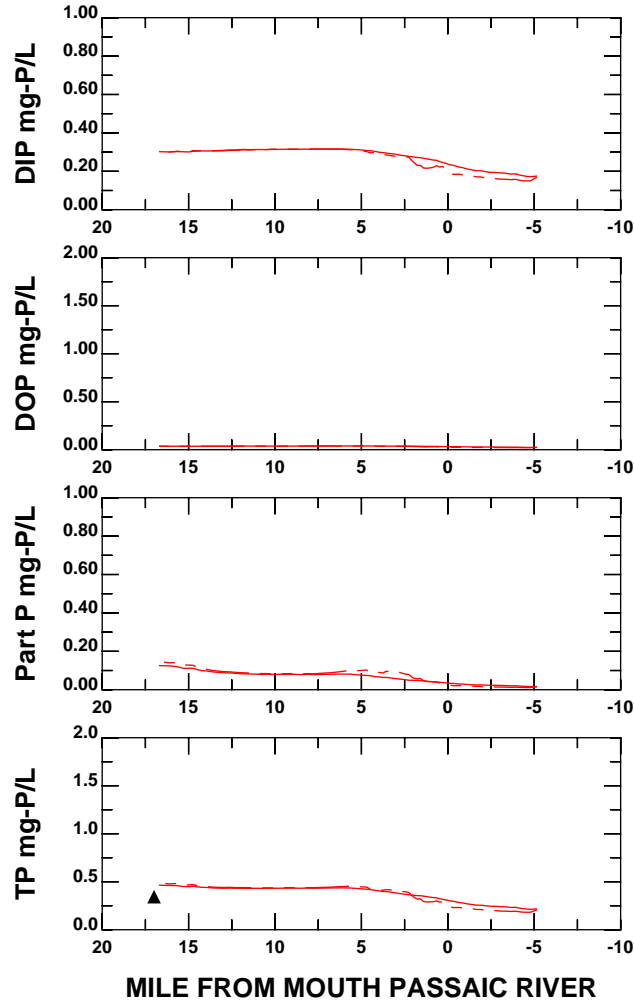
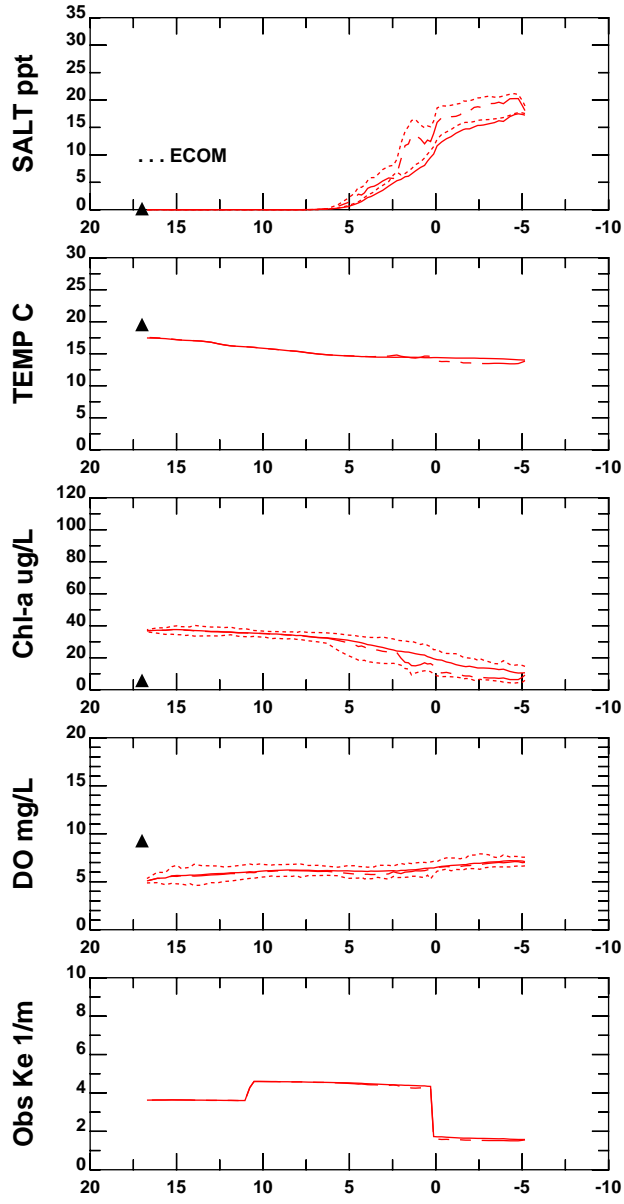
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



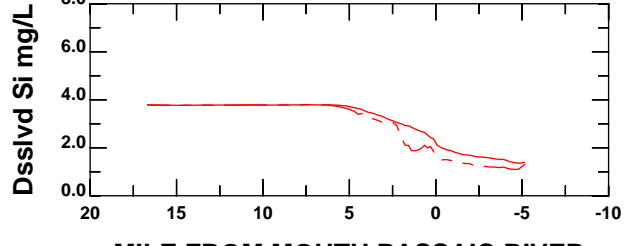
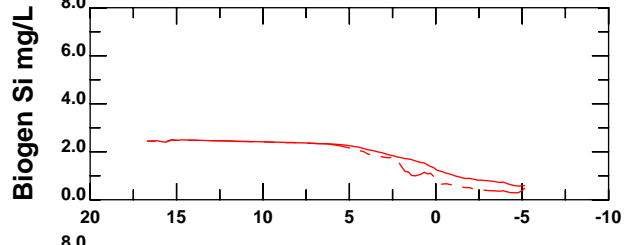
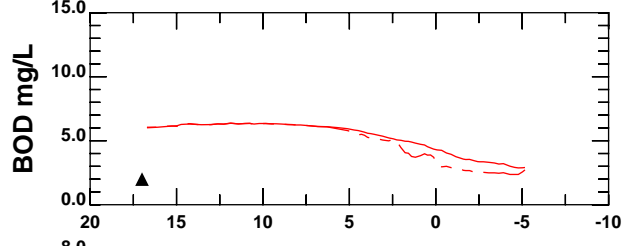
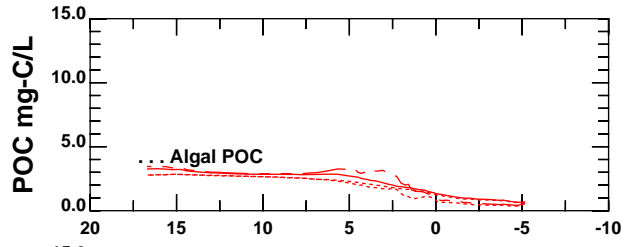
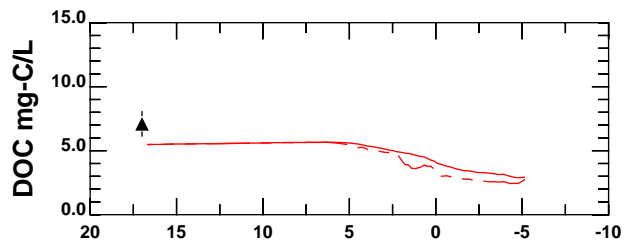
**DATA**  
NJHDG May 28,2008

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

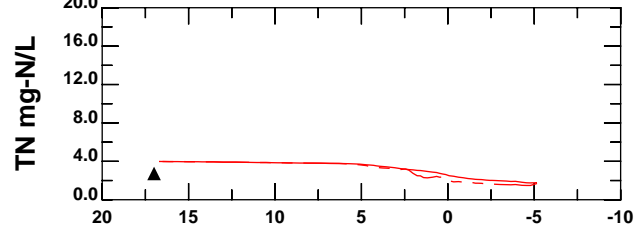
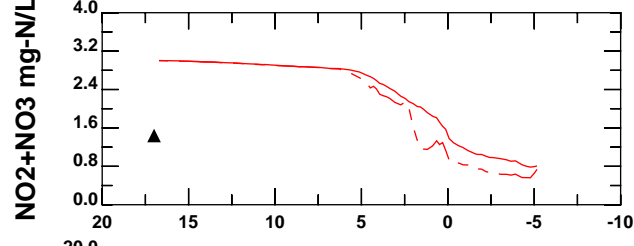
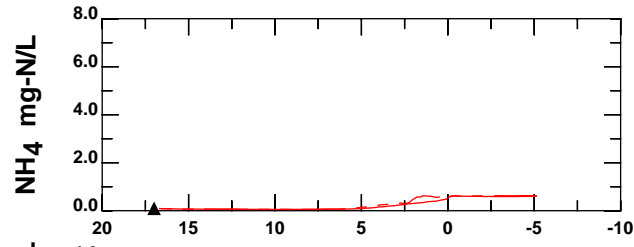
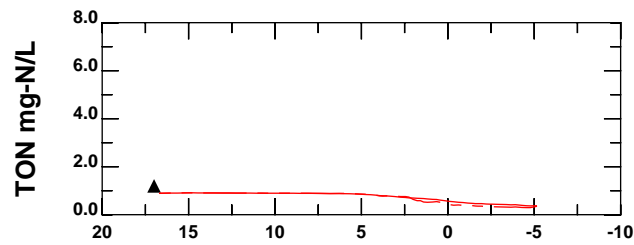
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0708

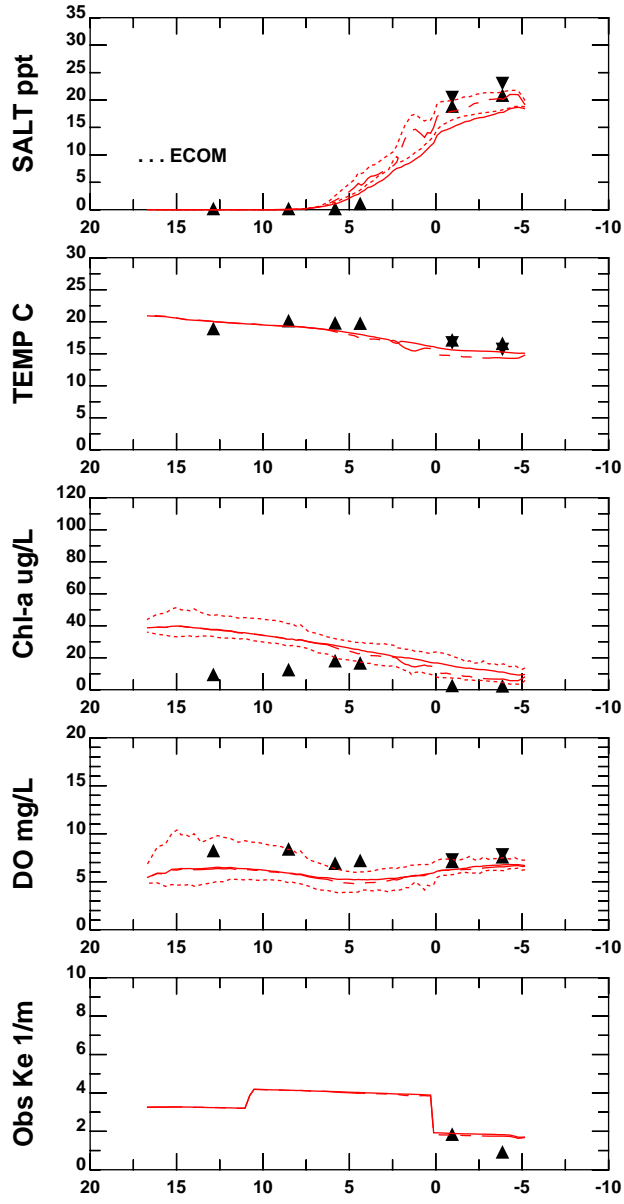


MILE FROM MOUTH PASSAIC RIVER

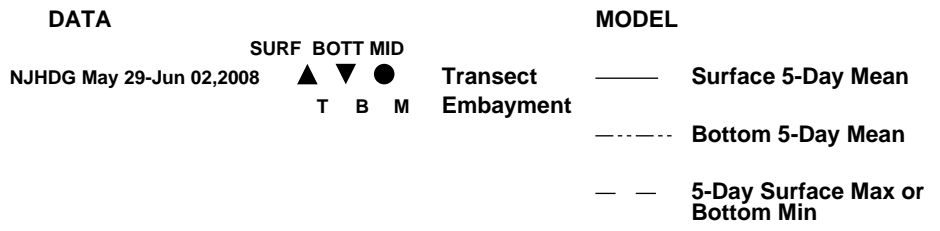
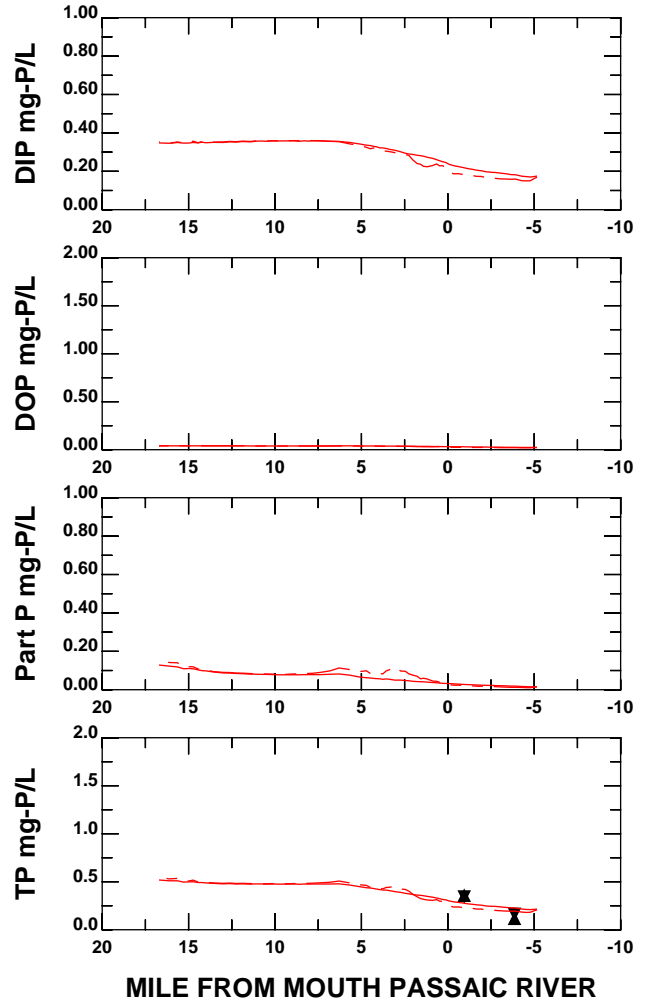
DATA  
NJHDG May 28,2008

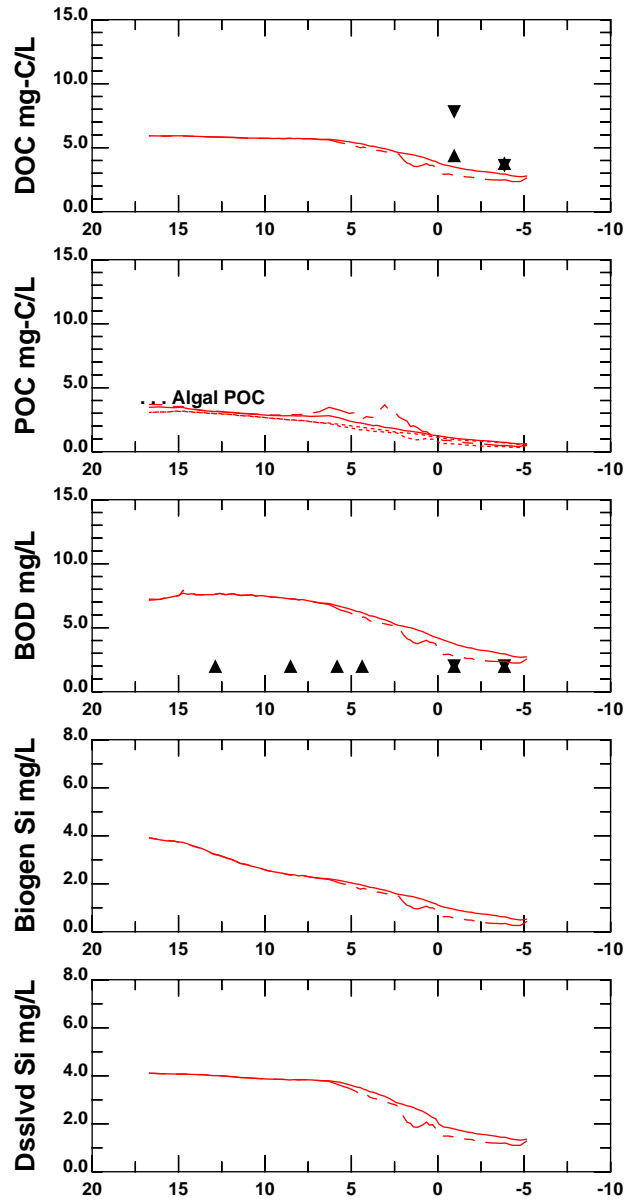
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

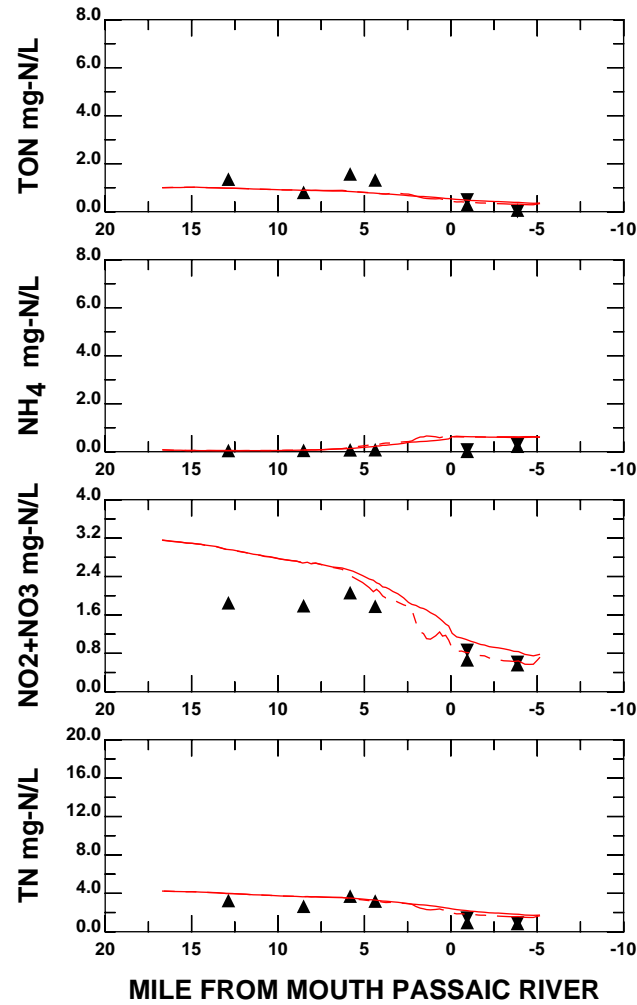




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



DATA

NJHGD May 29-Jun 02,2008

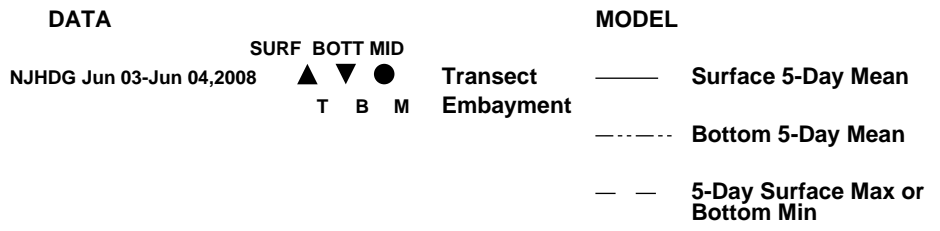
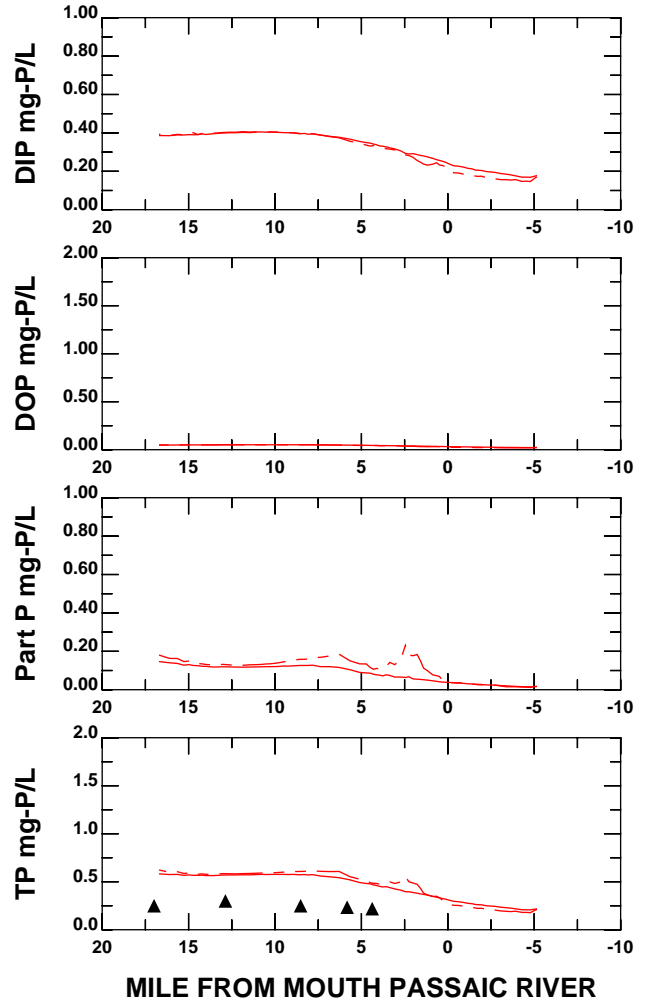
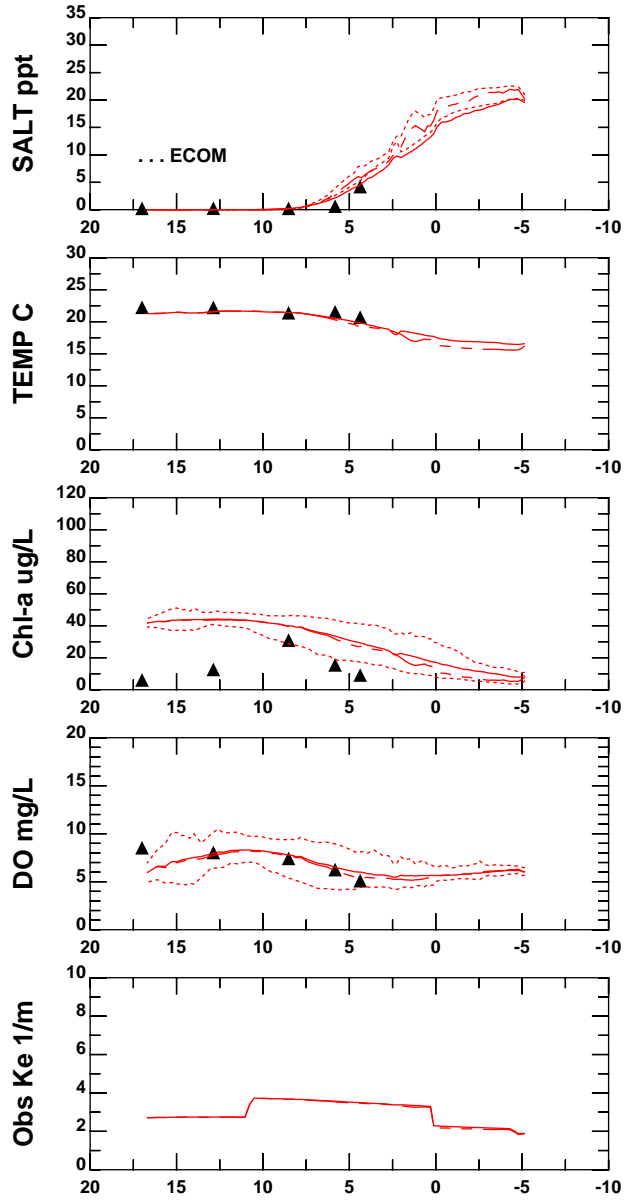
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

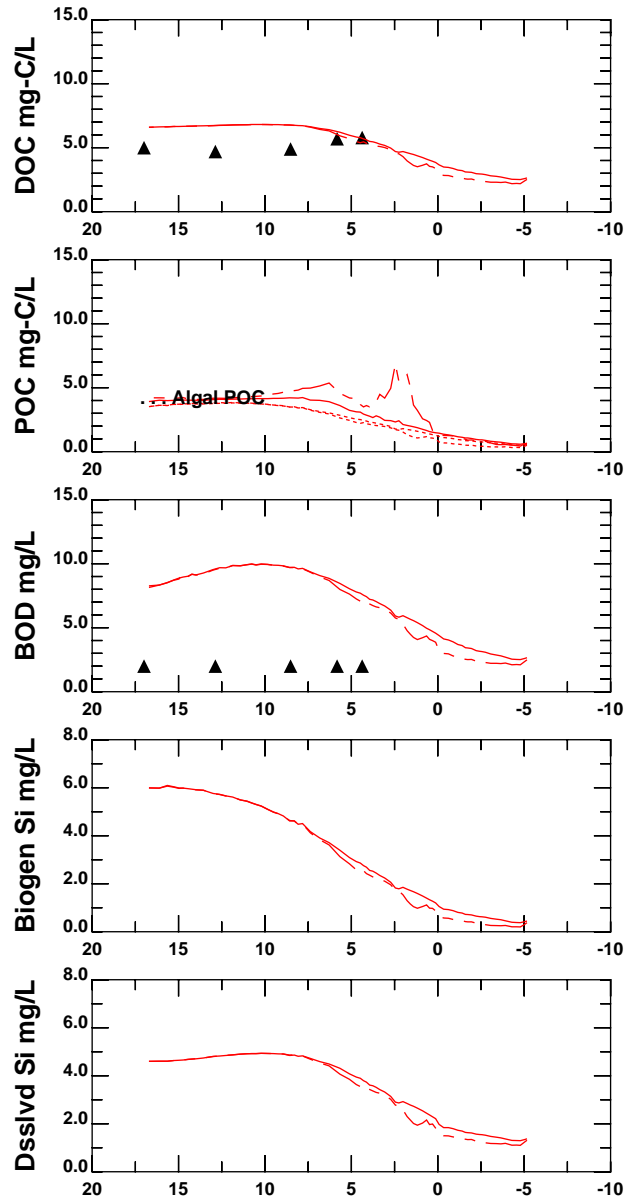
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

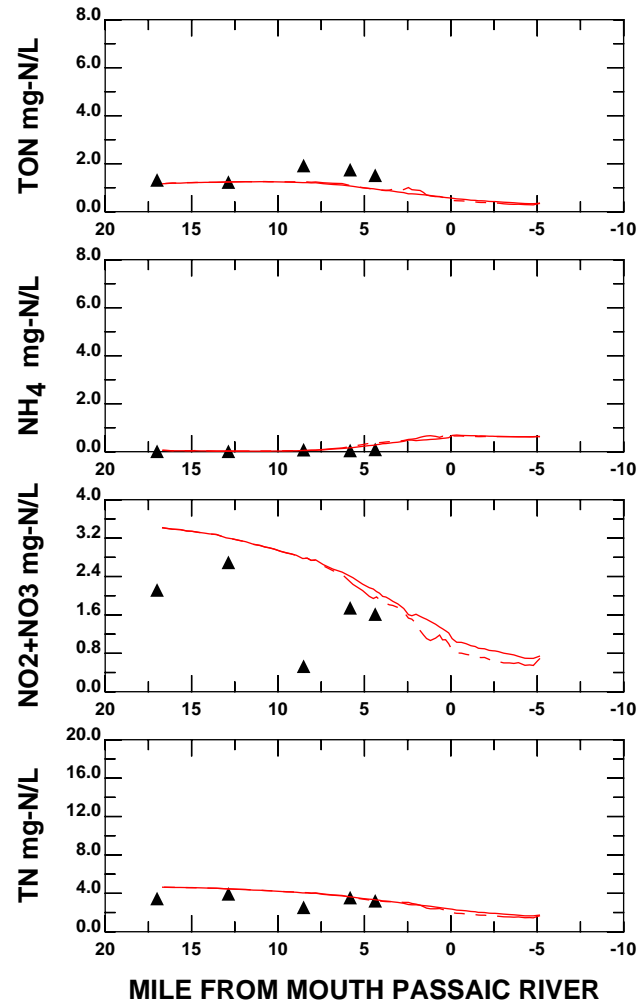




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



DATA

NJHDG Jun 03-Jun 04,2008

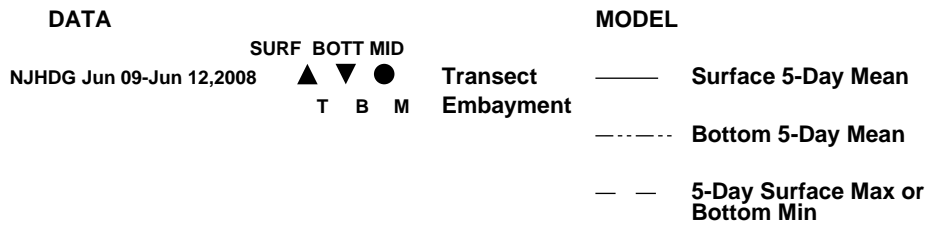
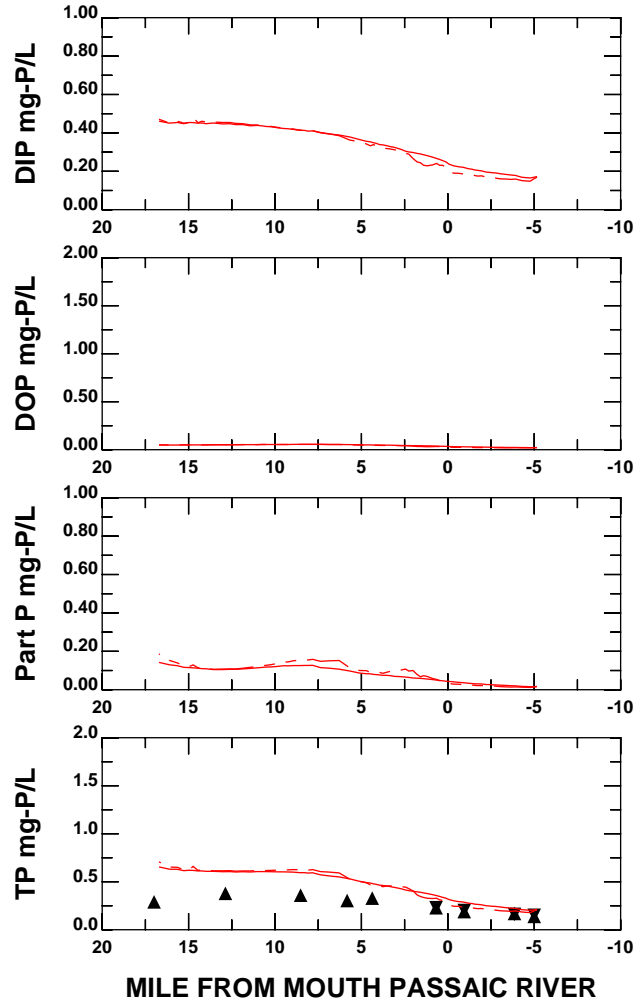
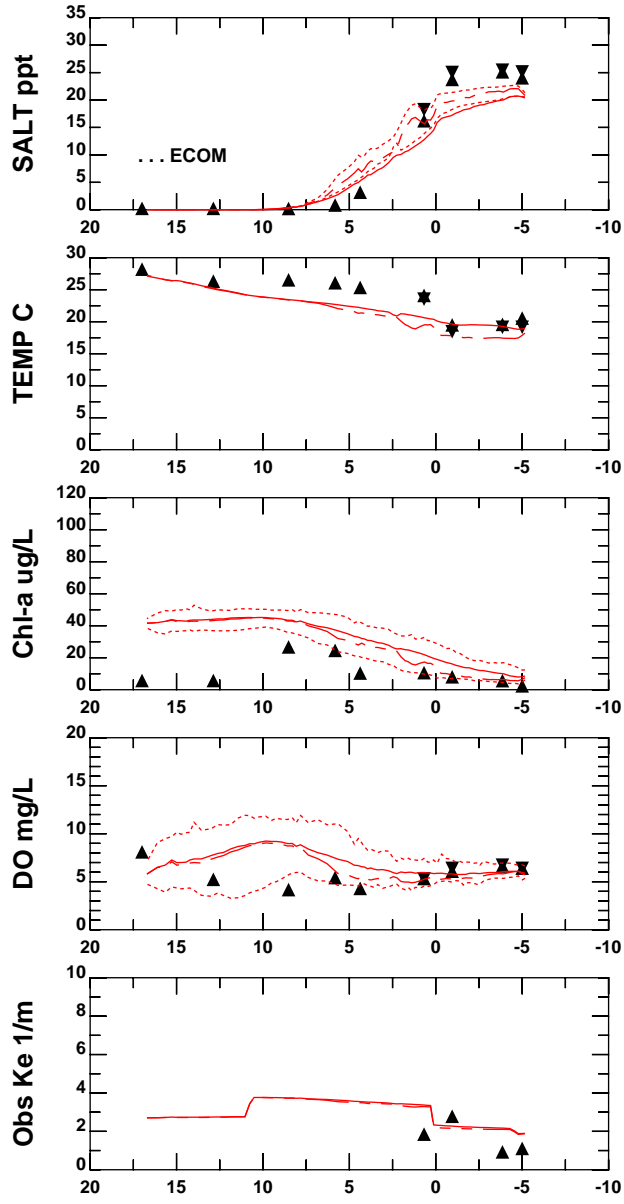
SURF BOTT MID

▲ ▼ ●  
T B M

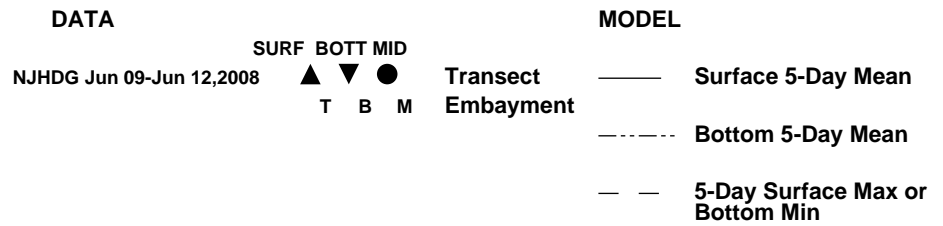
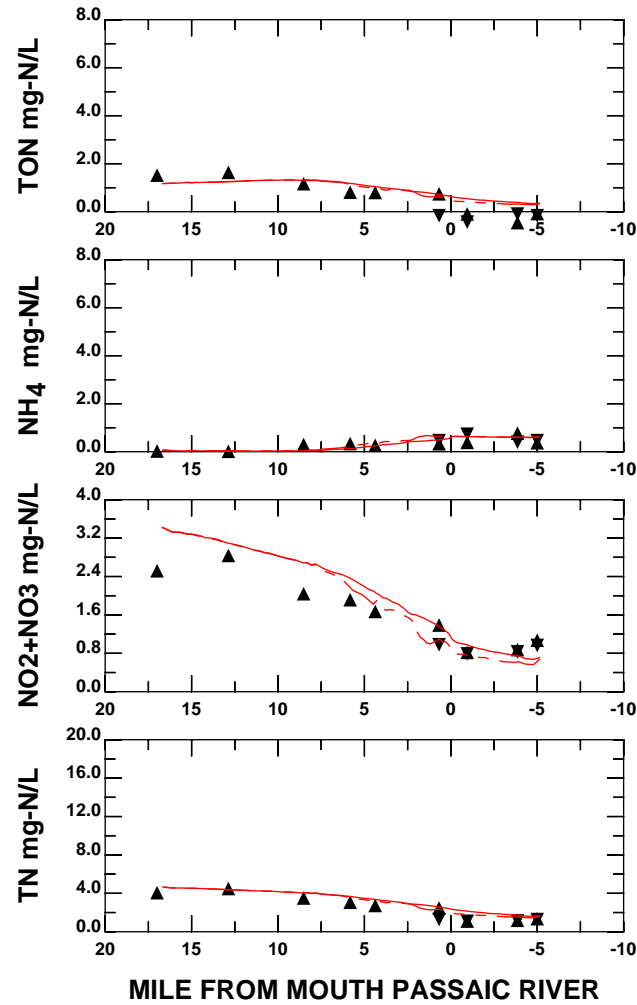
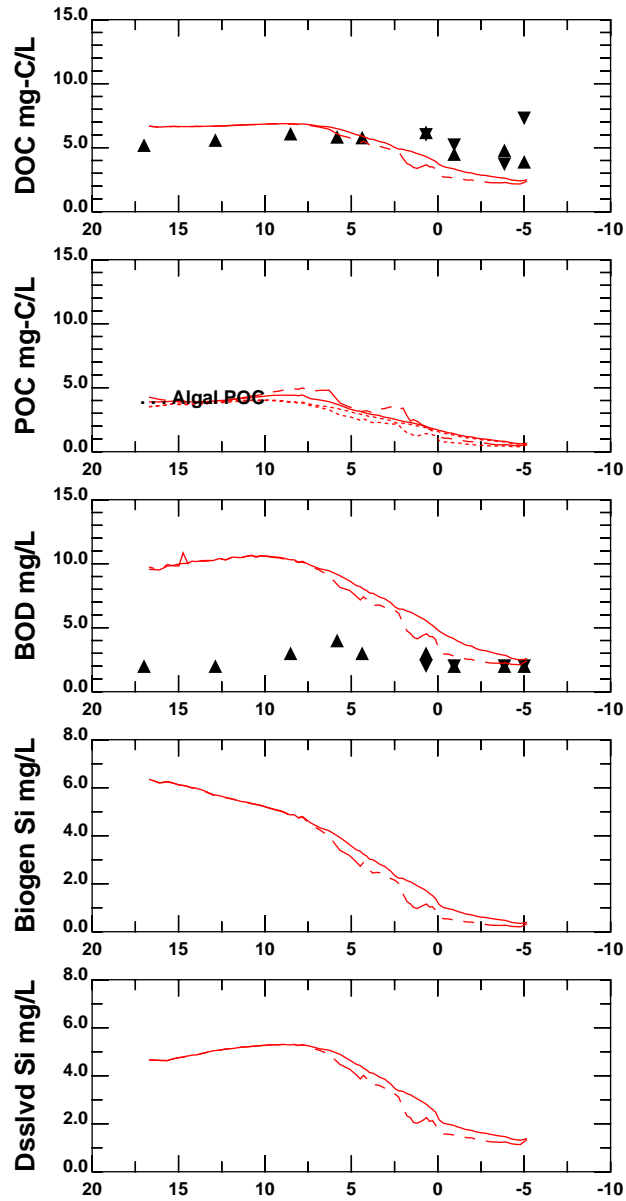
Transect  
Embayment

MODEL

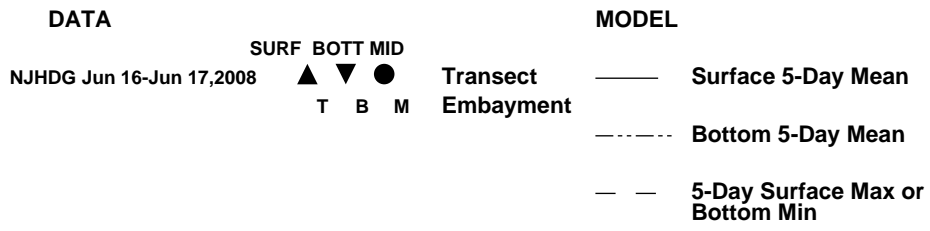
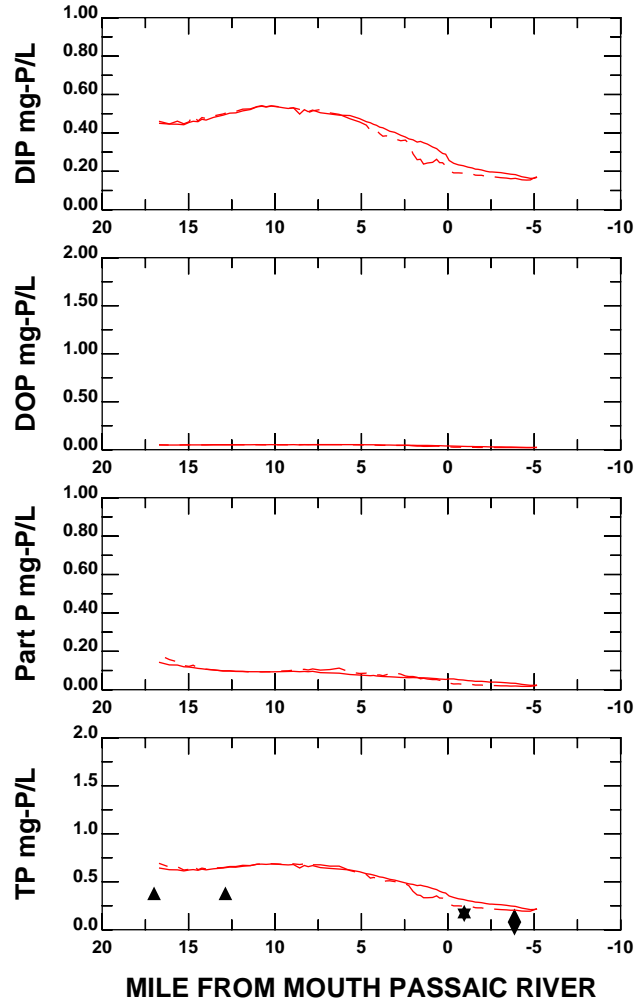
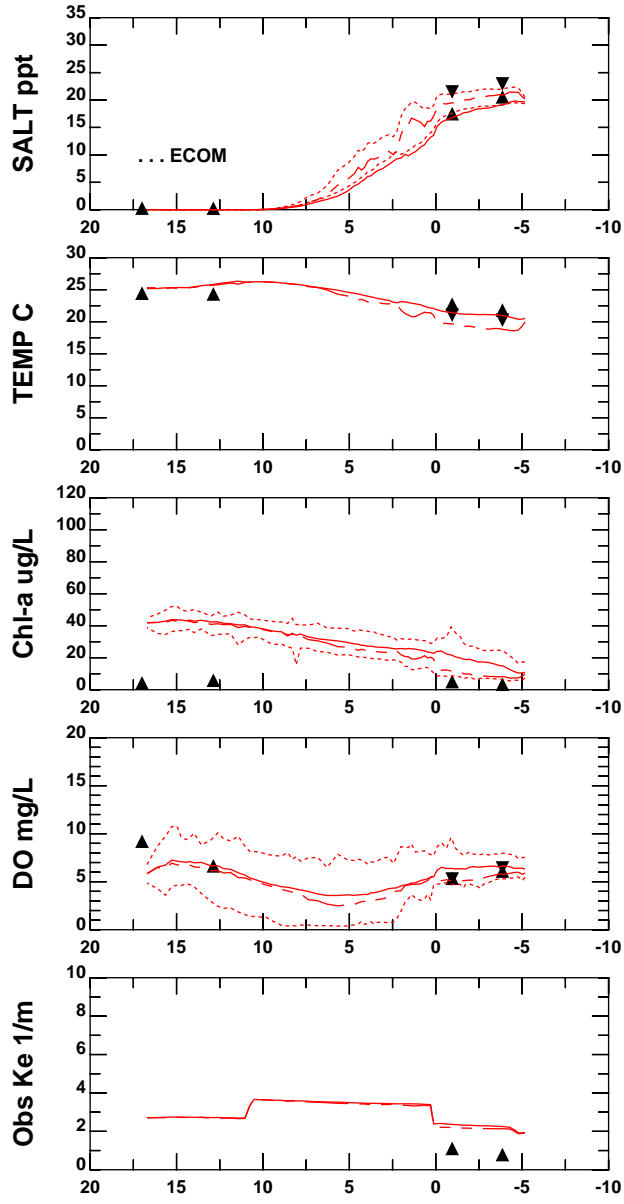
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



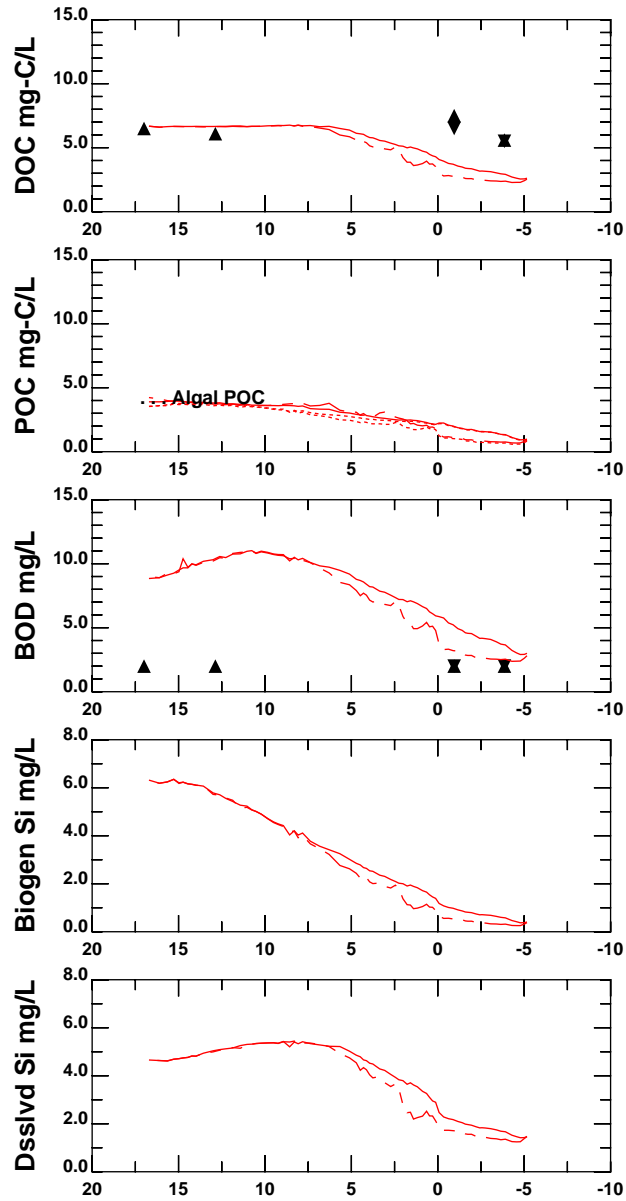
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



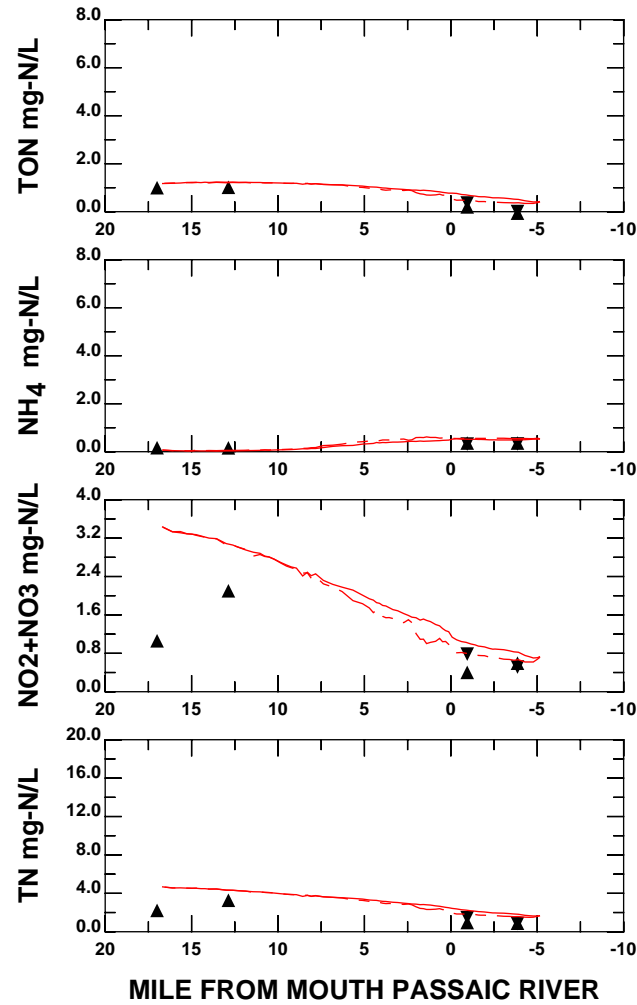
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



DATA

NJHDG Jun 16-Jun 17,2008

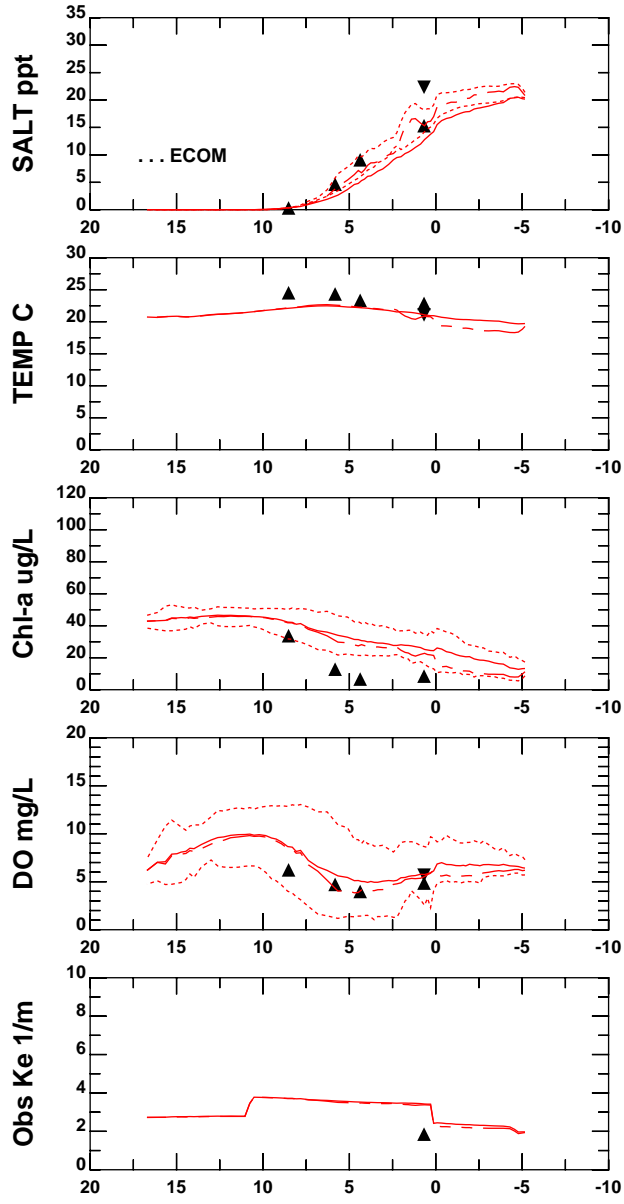
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

MODEL

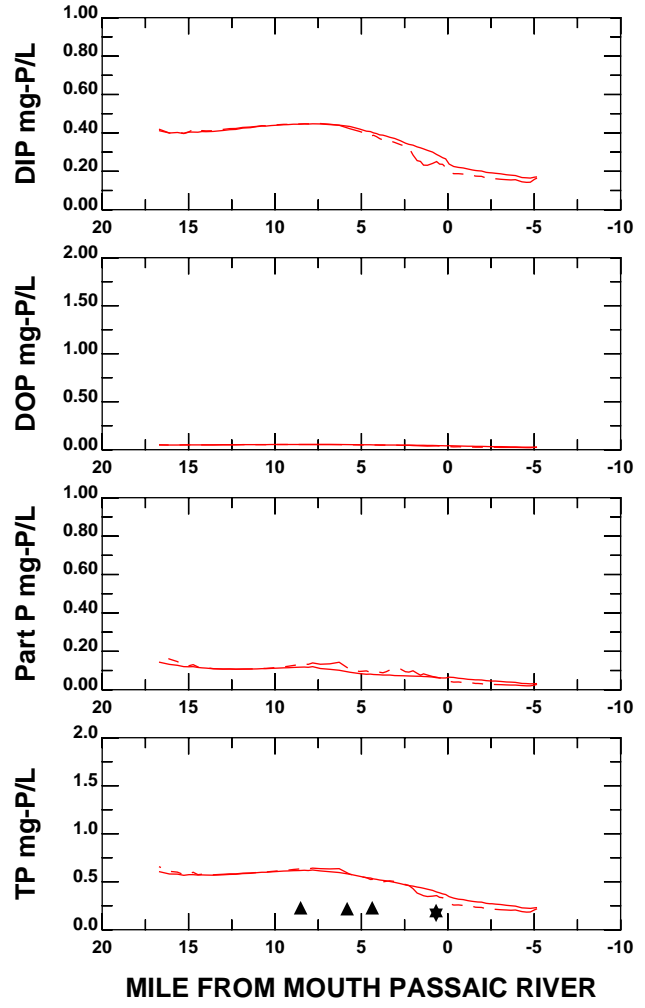
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708

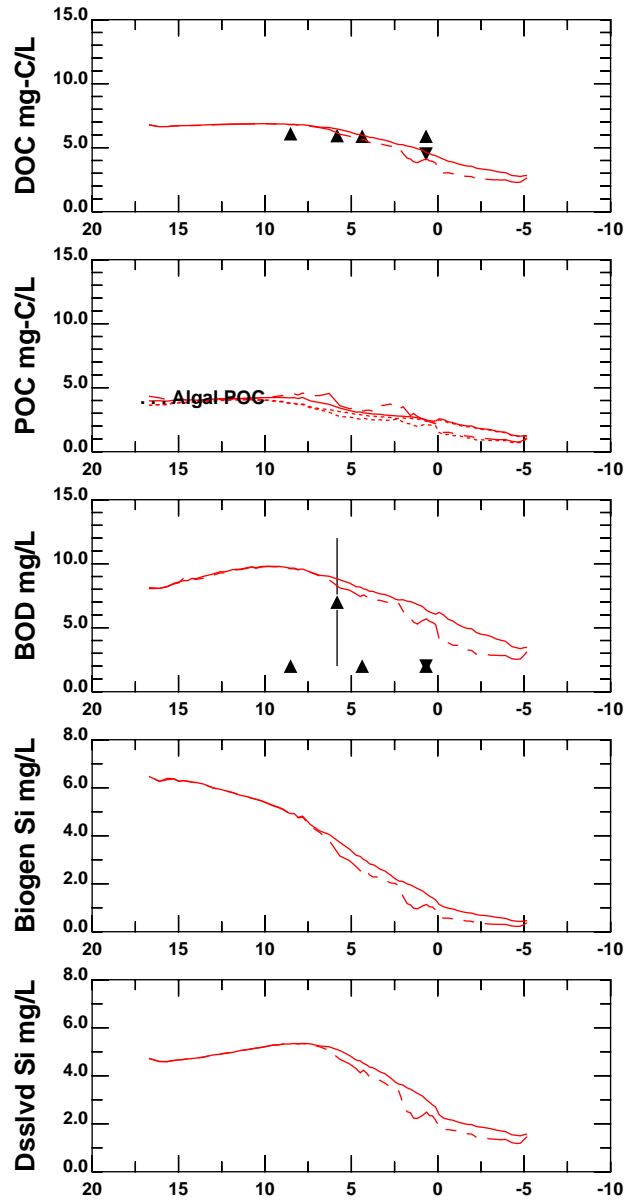


DATA  
NJHDG Jun 18,2008

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

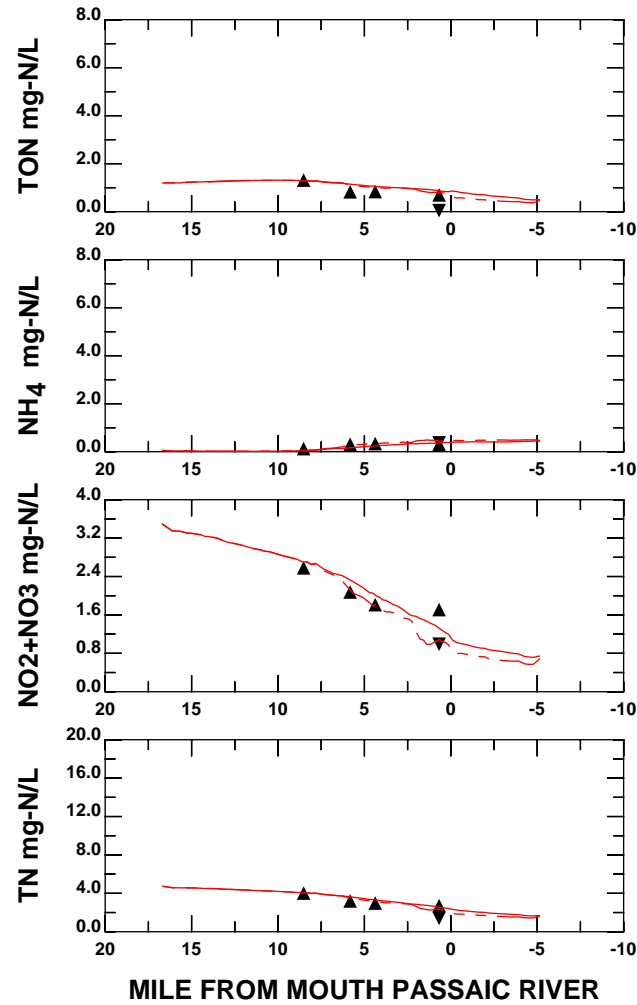
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jun 18,2008

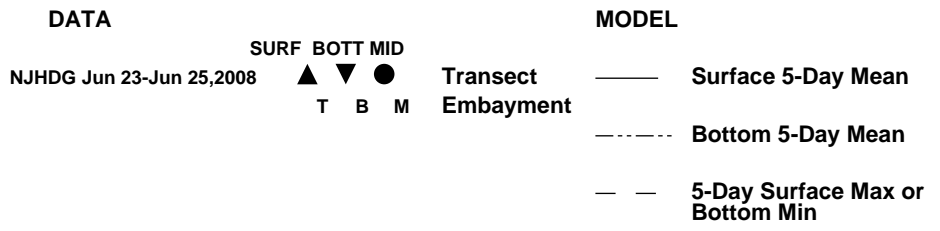
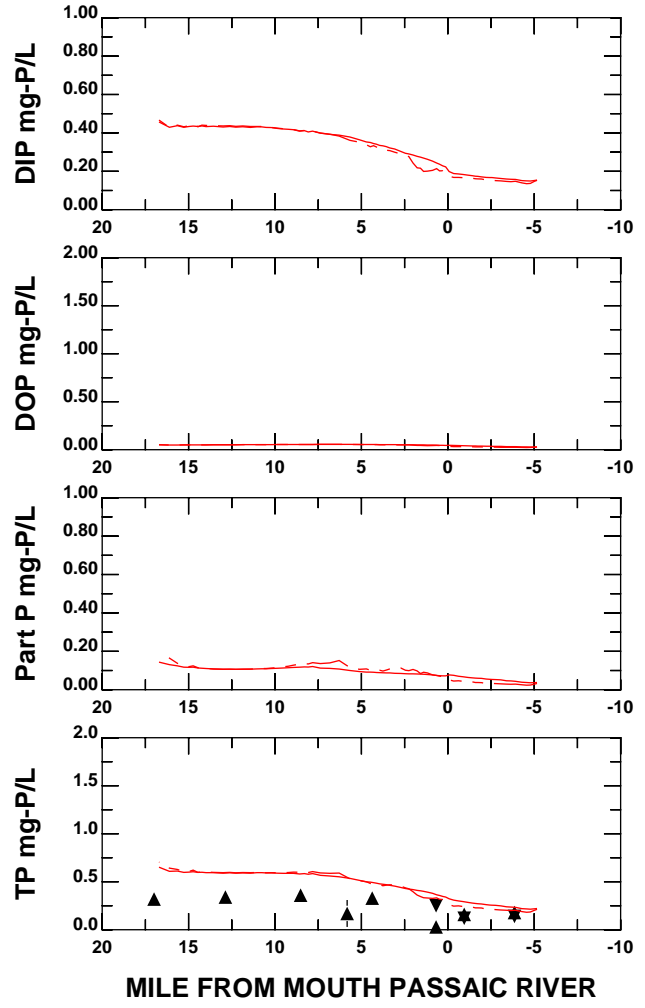
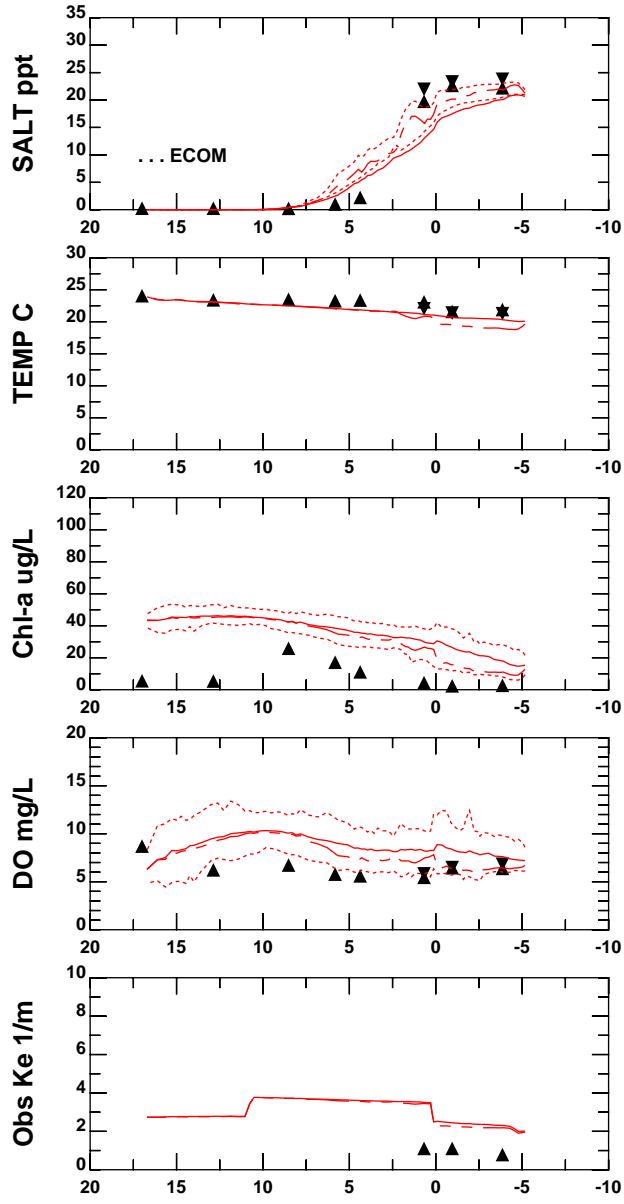
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

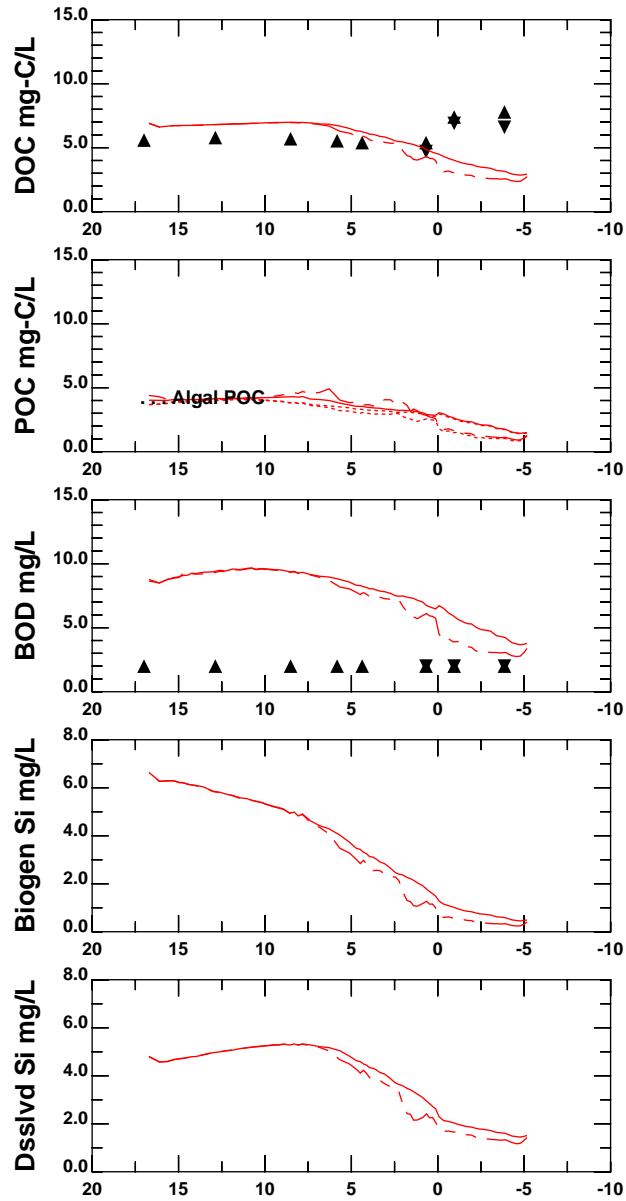
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



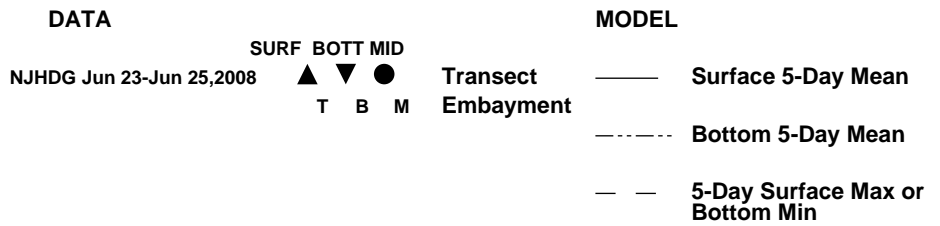
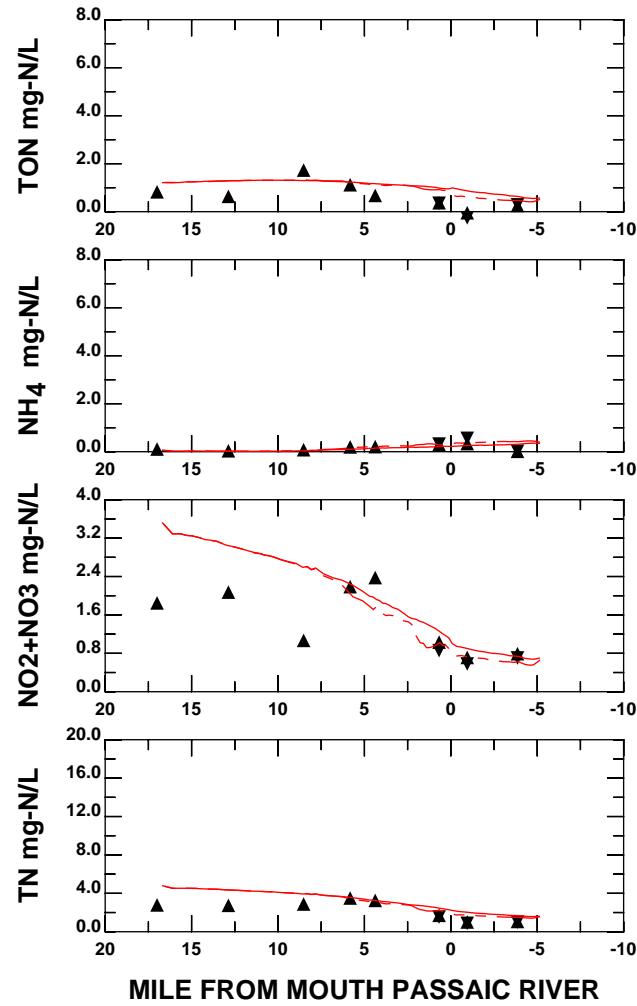
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

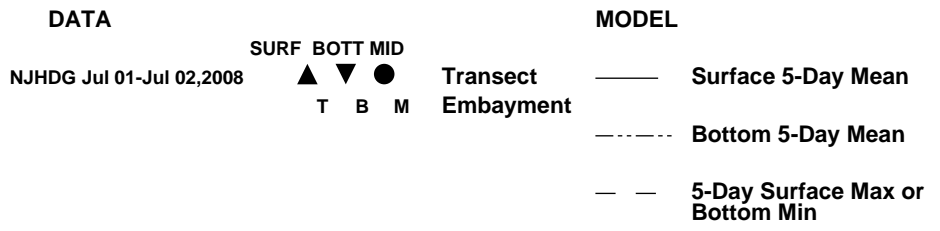
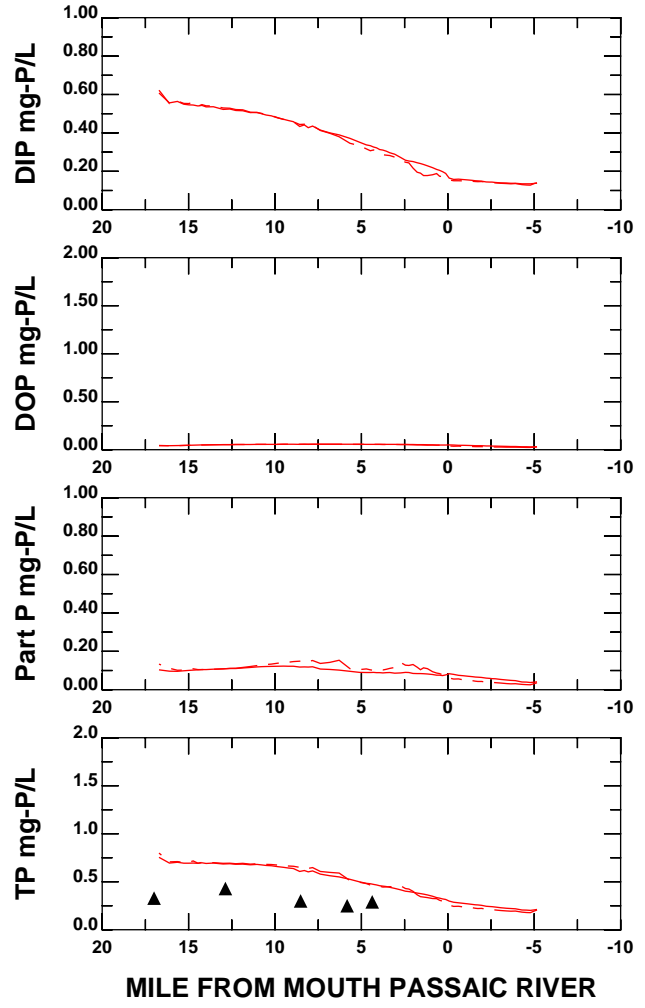
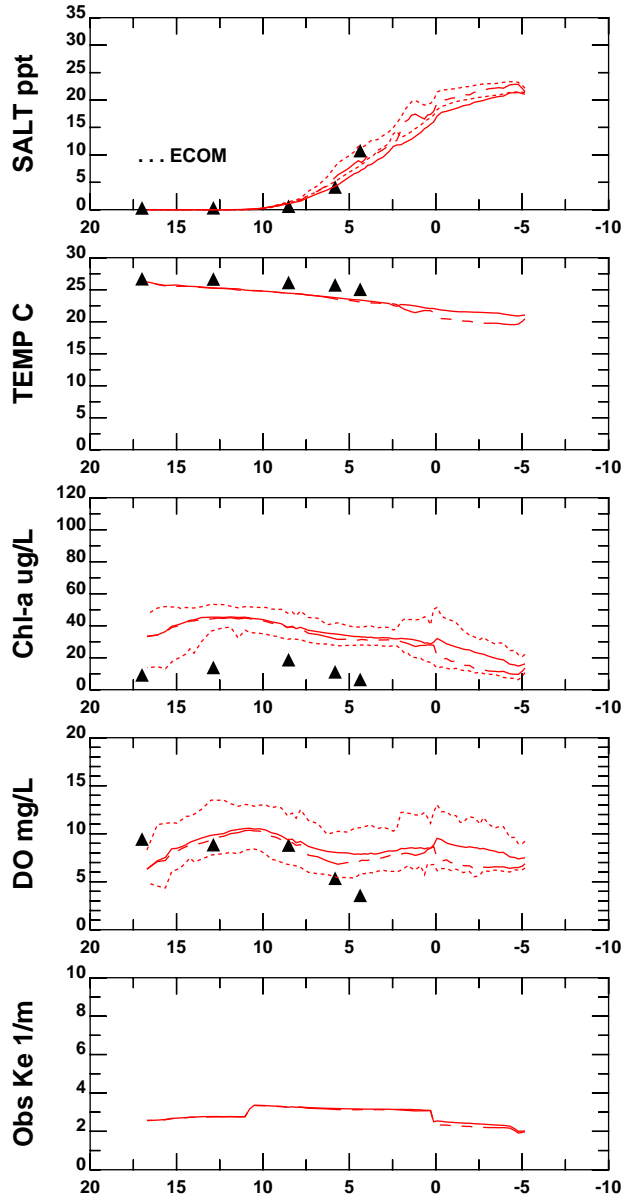




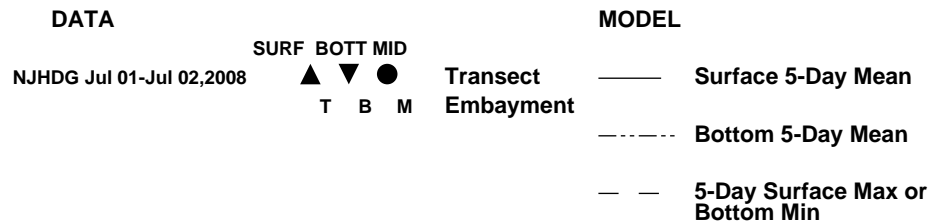
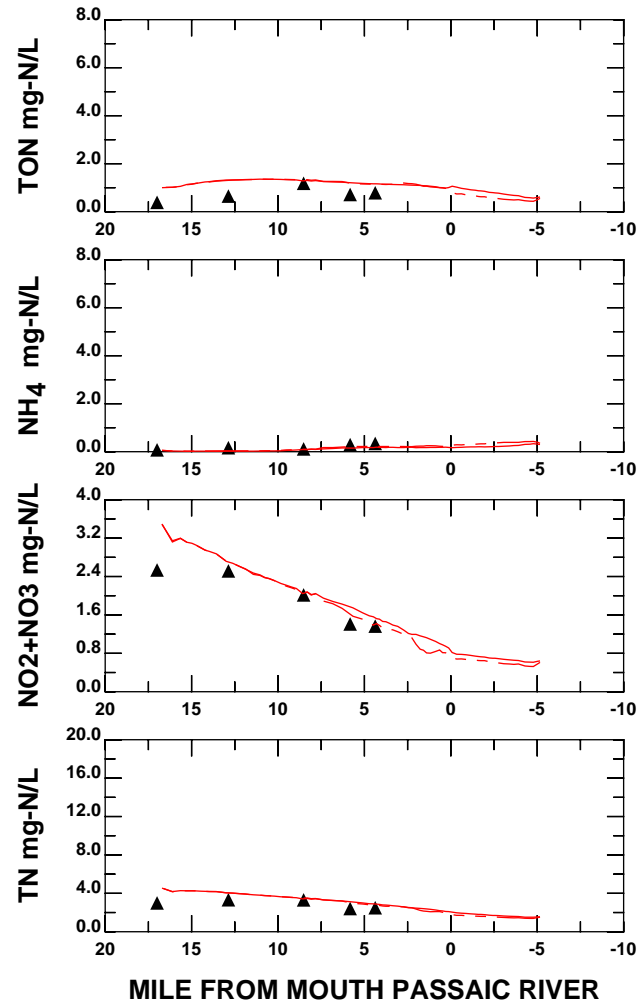
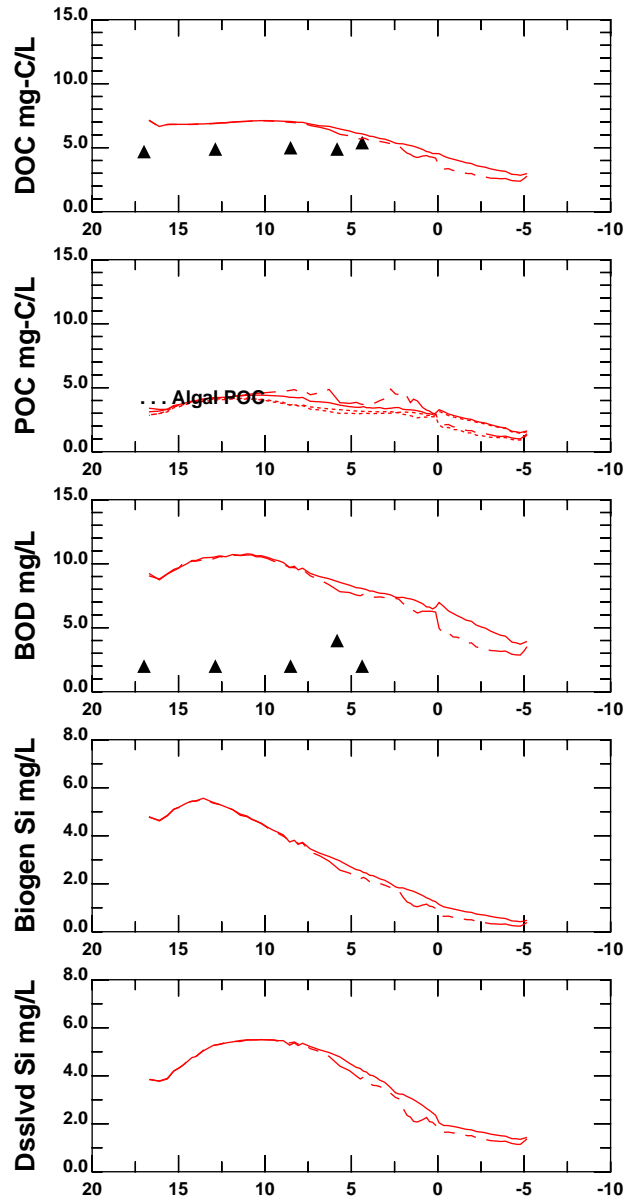
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

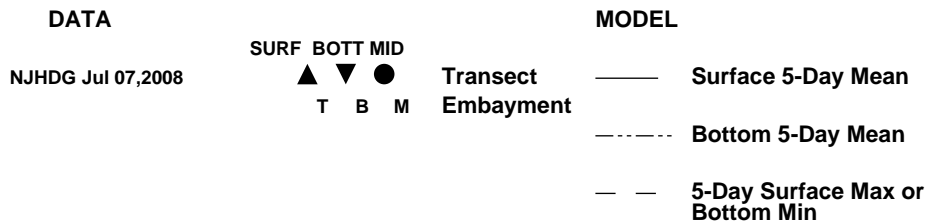
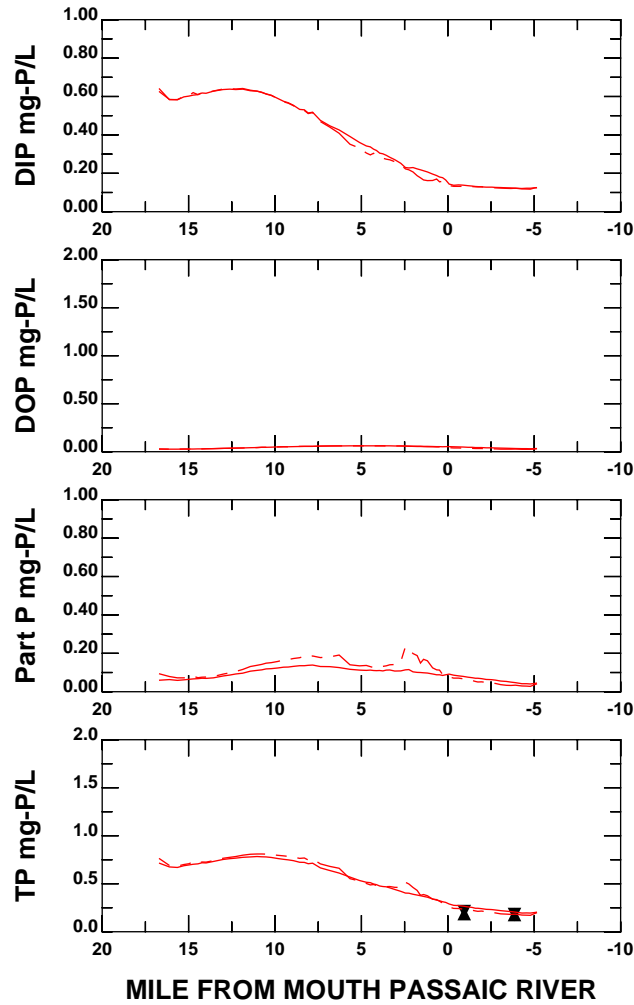
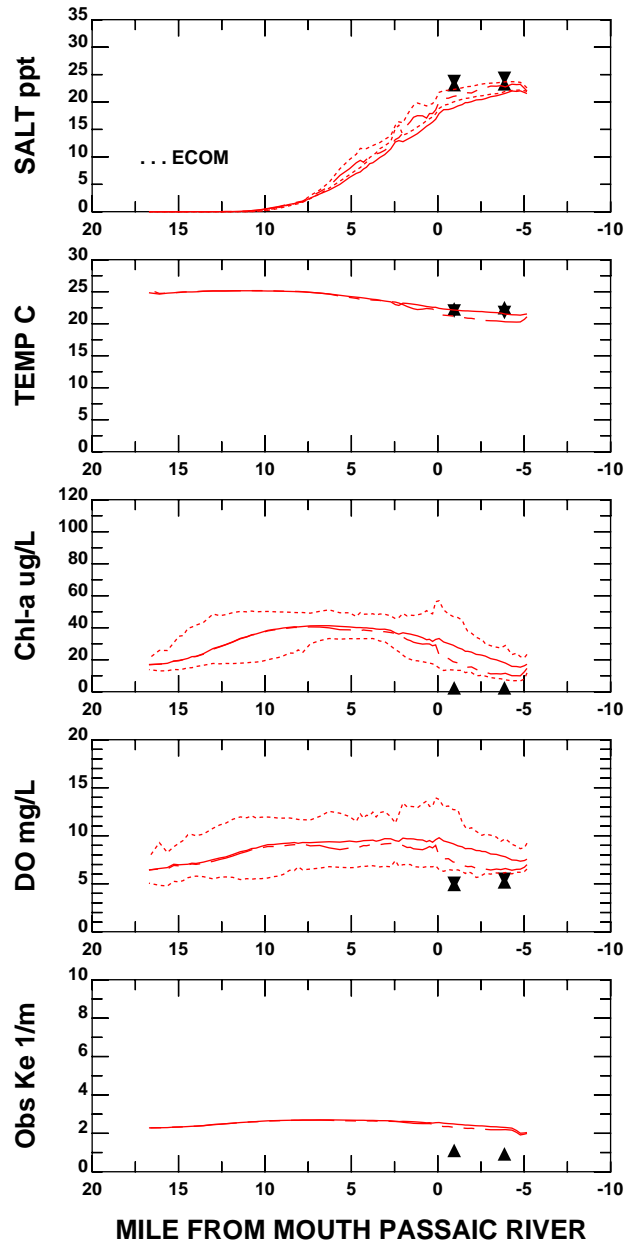




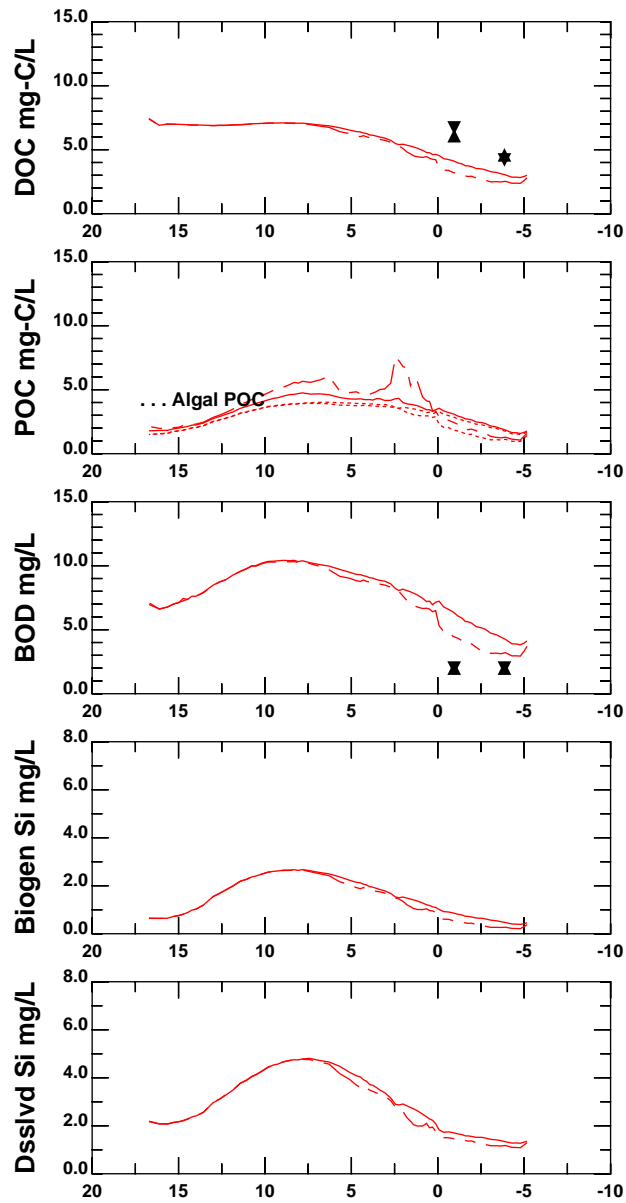
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



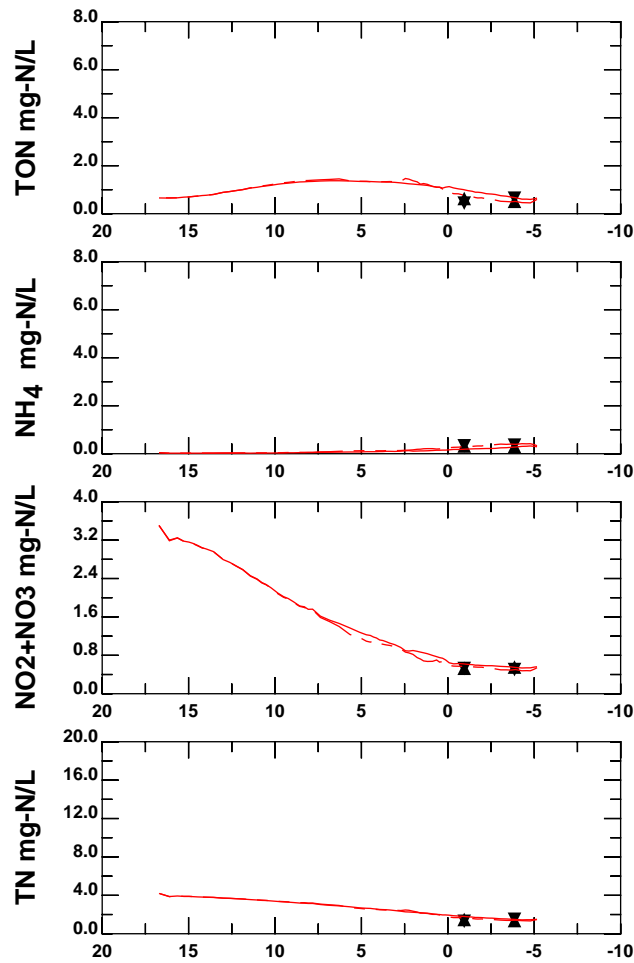
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

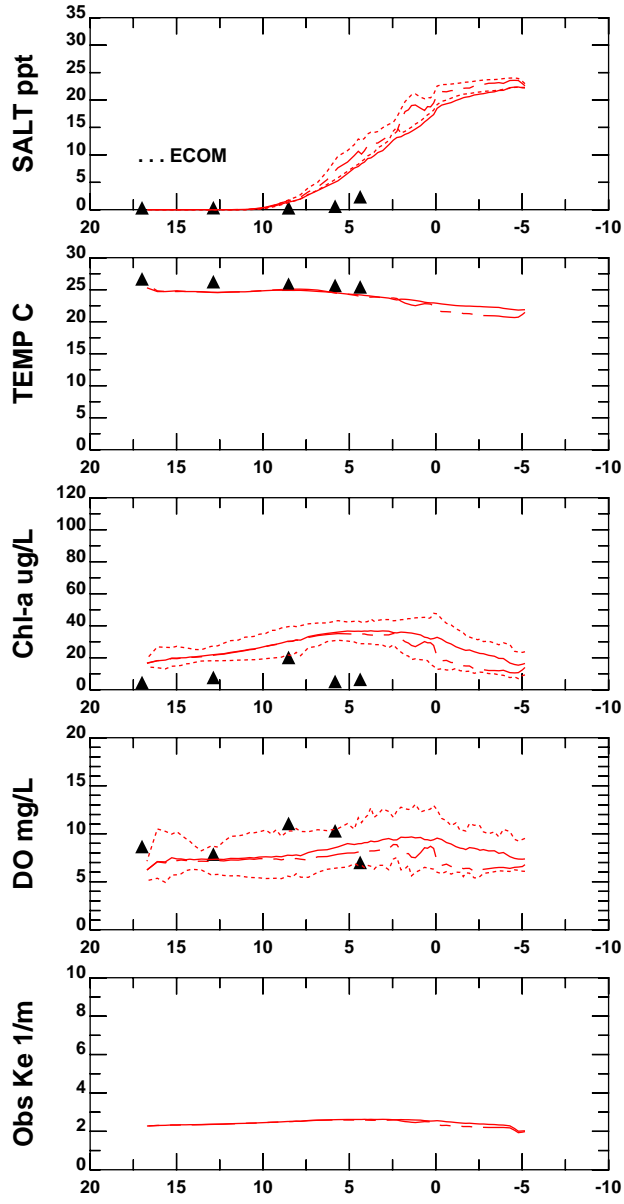
DATA  
NJHDG Jul 07,2008

MODEL

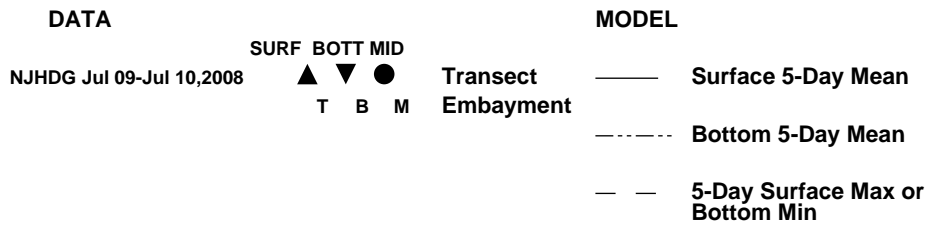
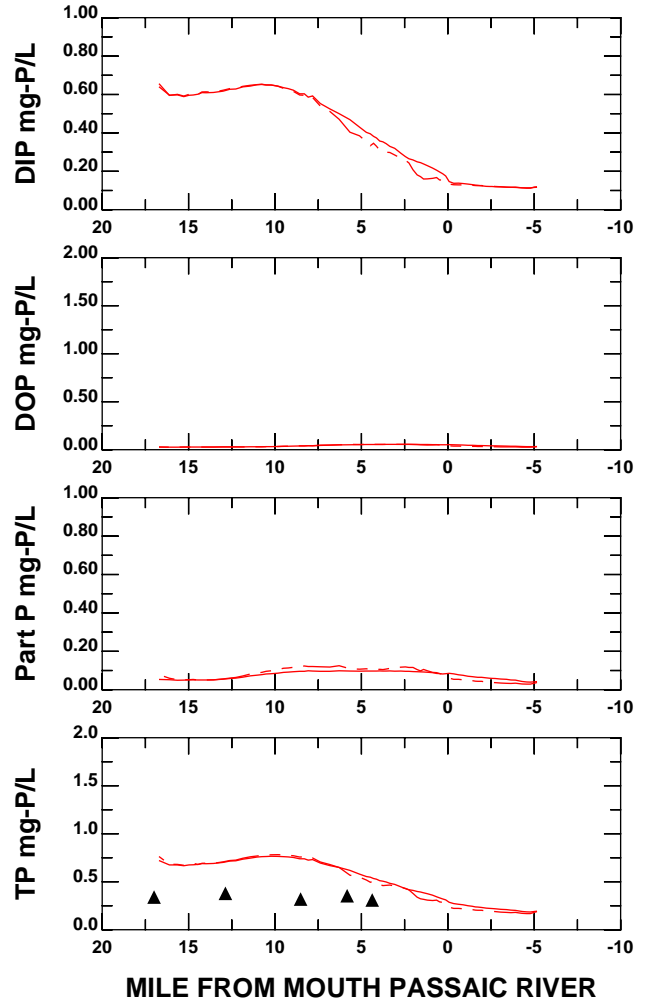
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

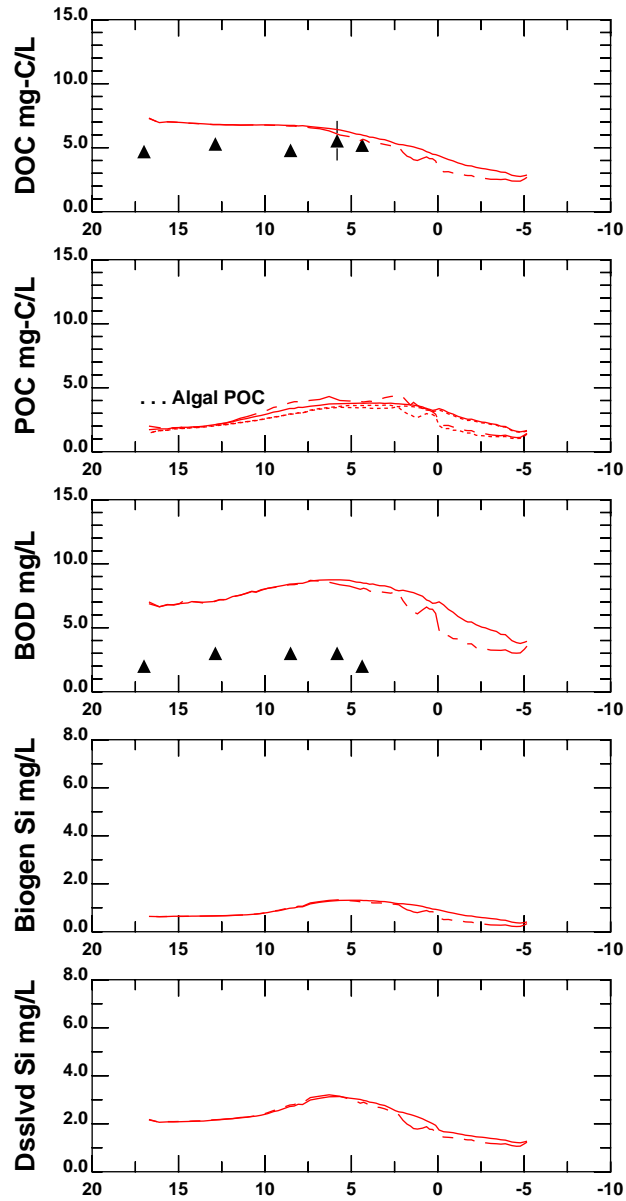
MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

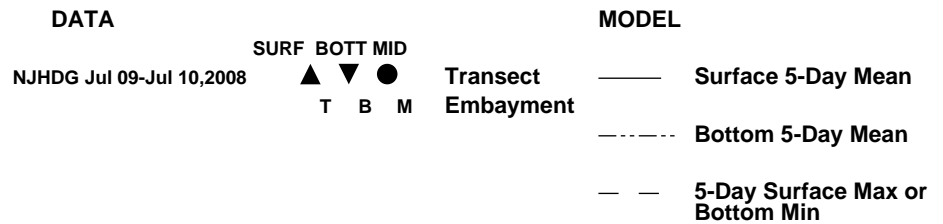
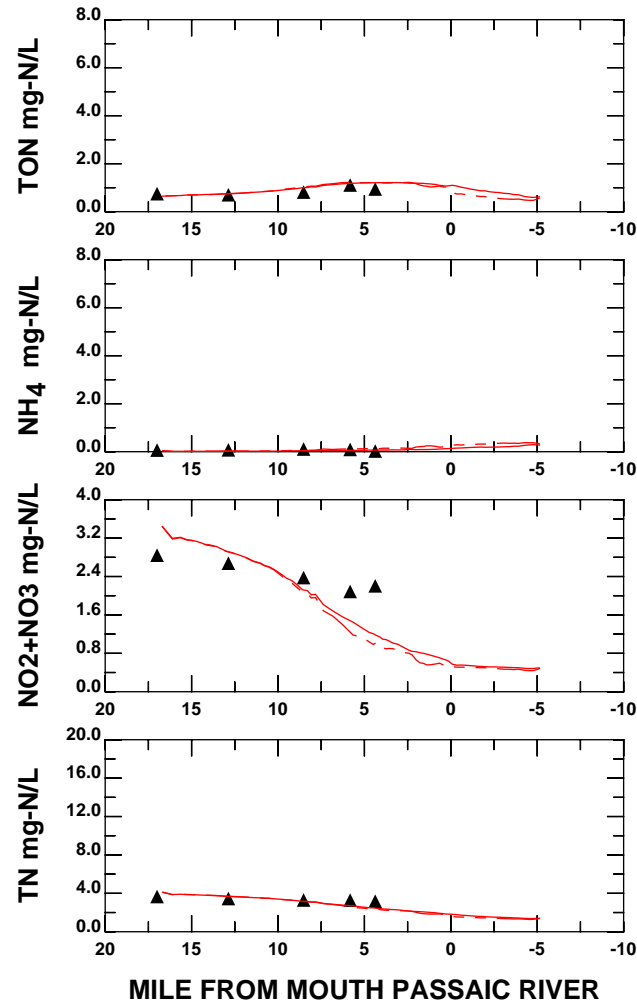


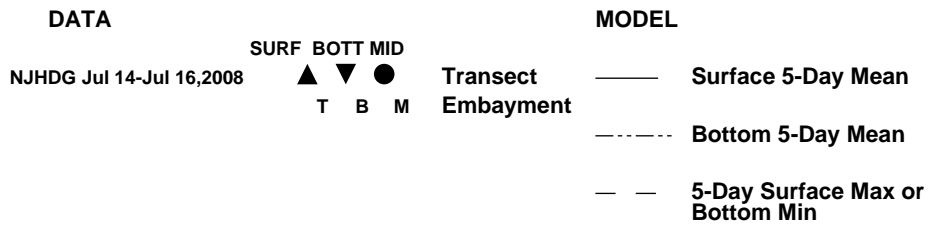
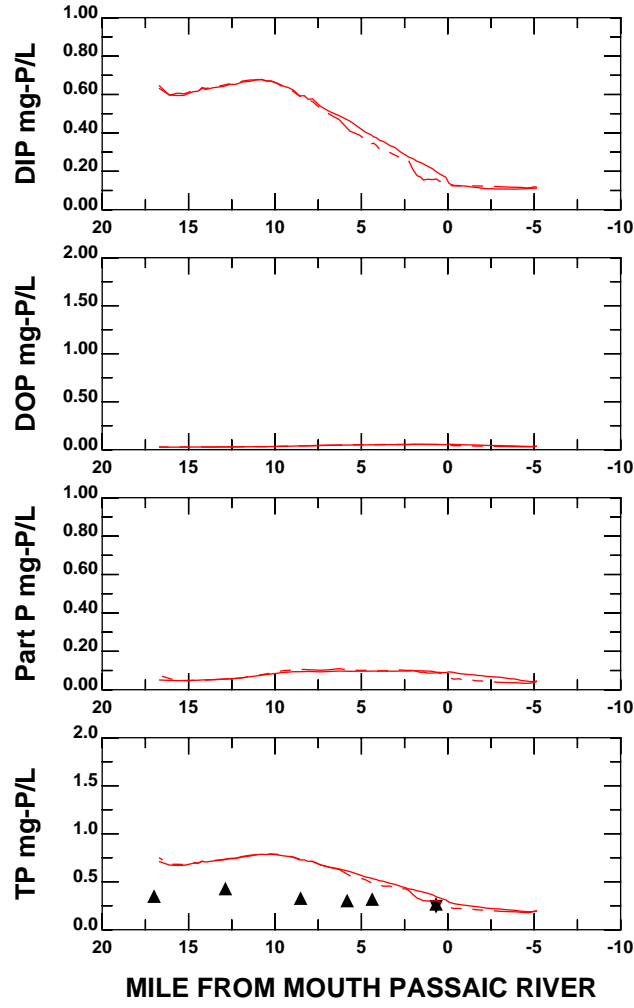
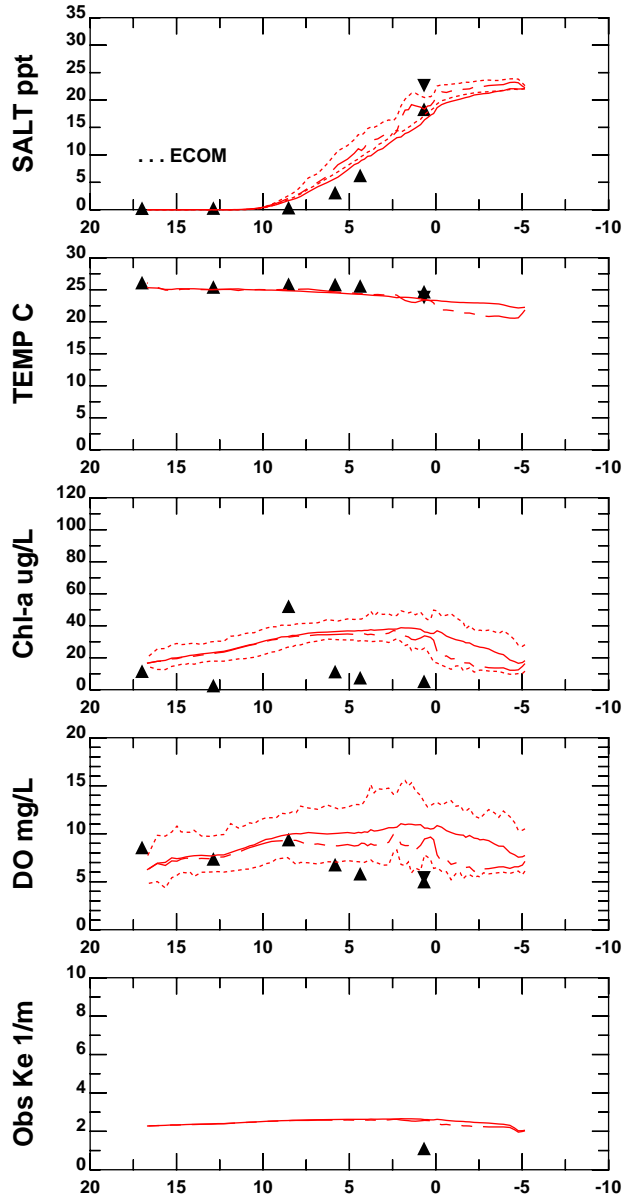
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708





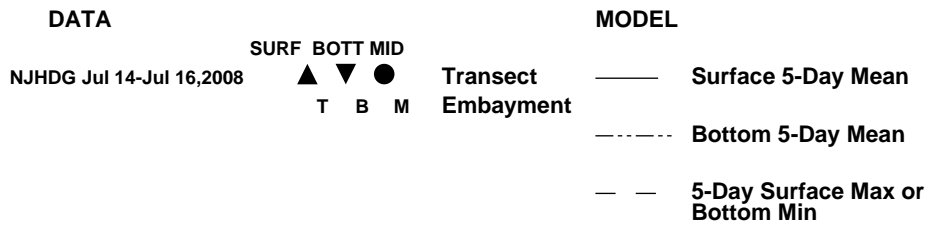
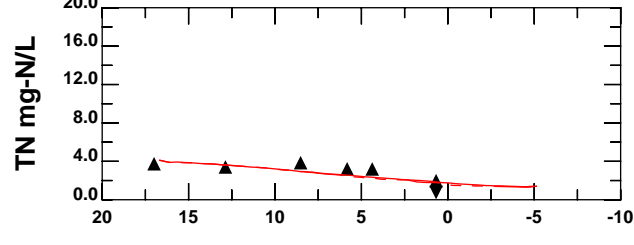
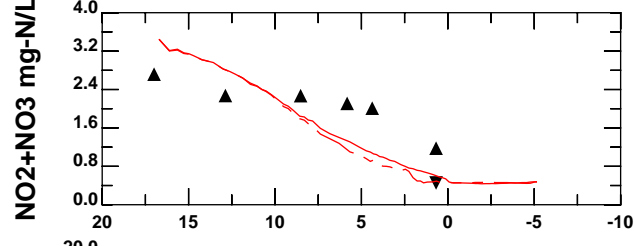
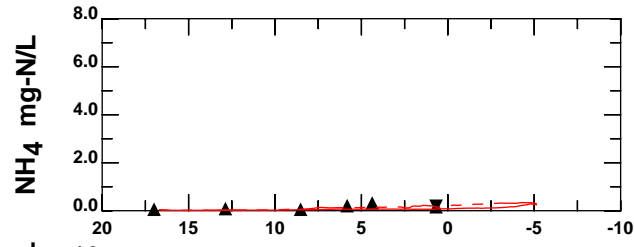
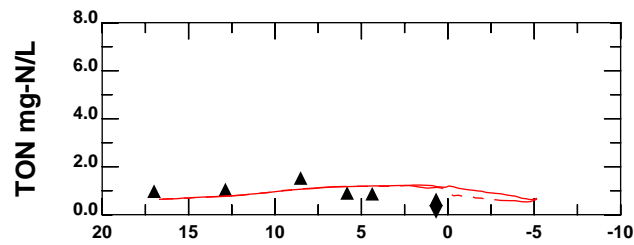
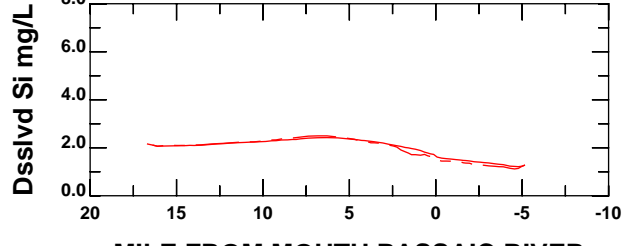
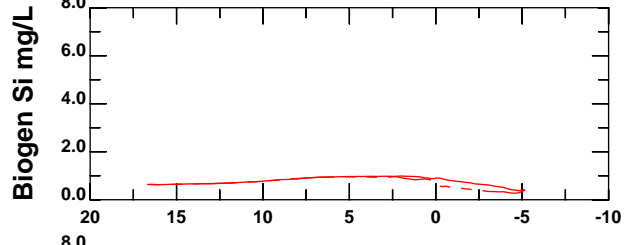
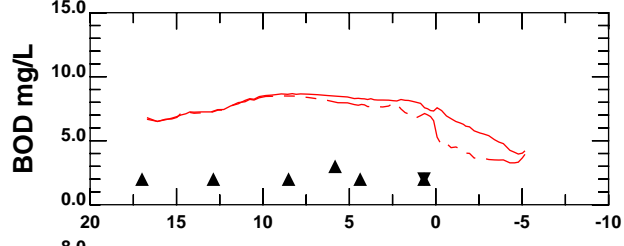
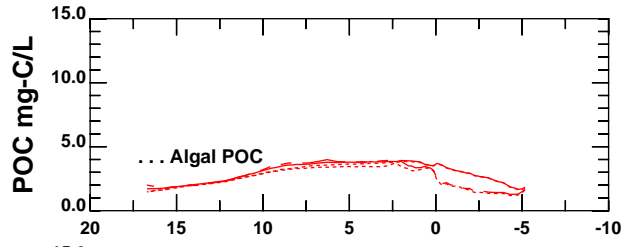
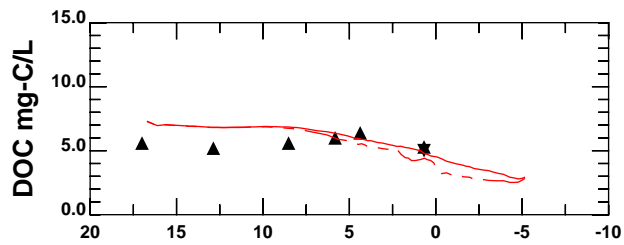
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



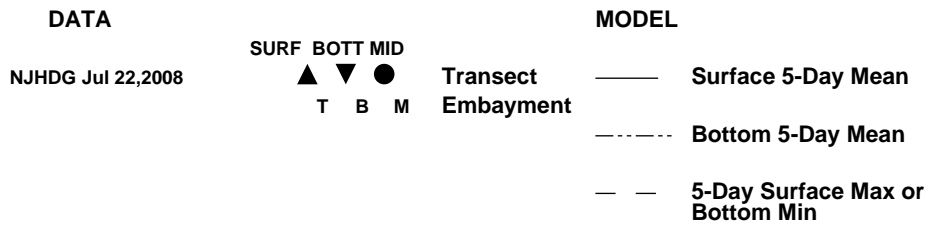
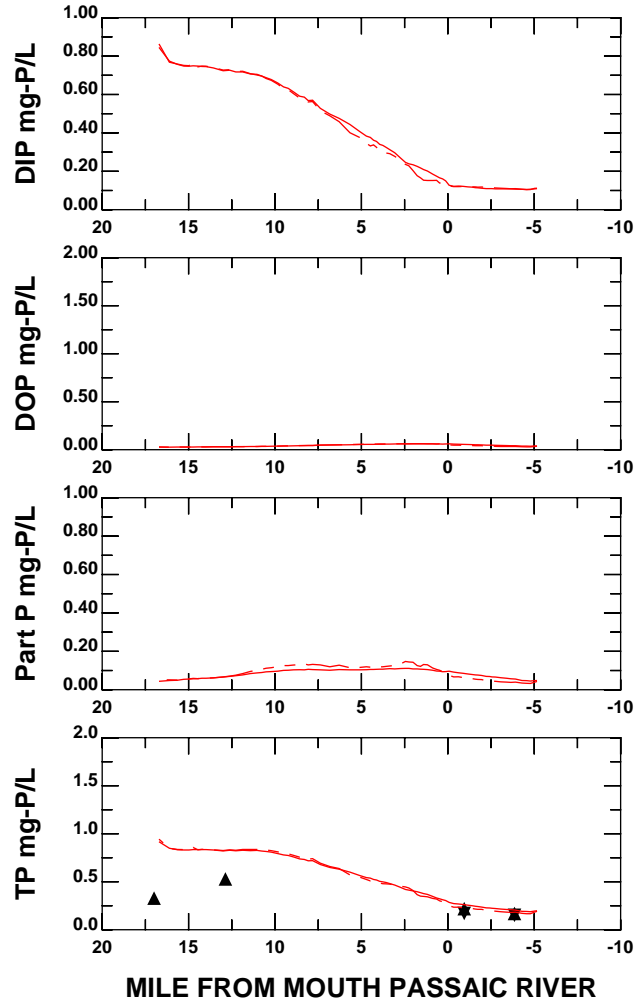
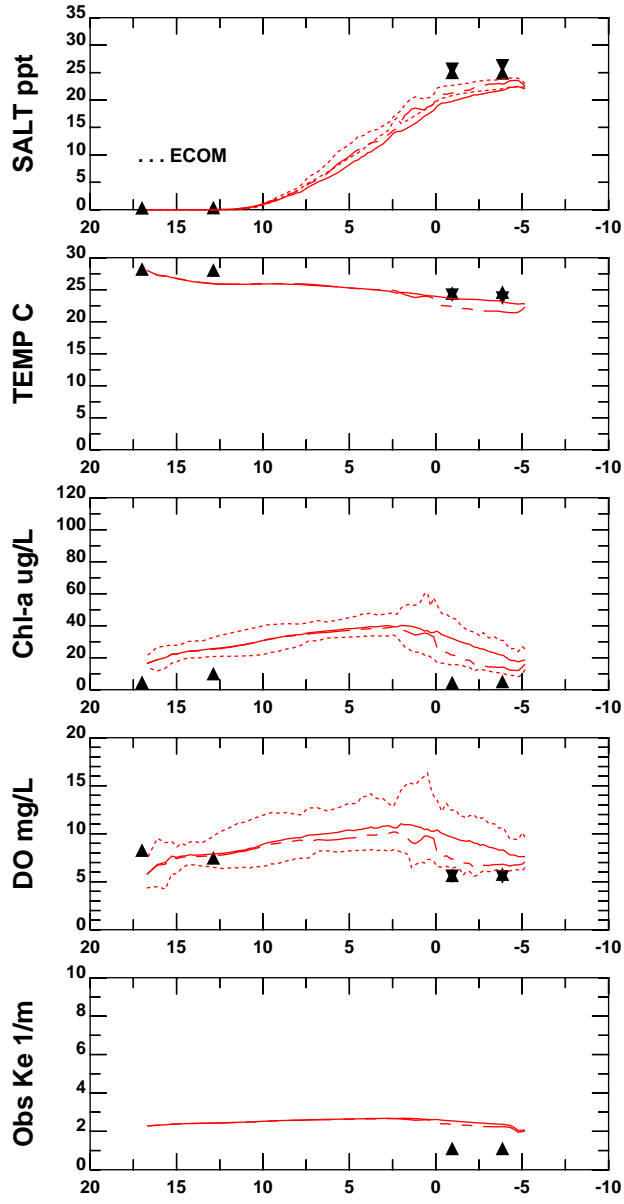


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

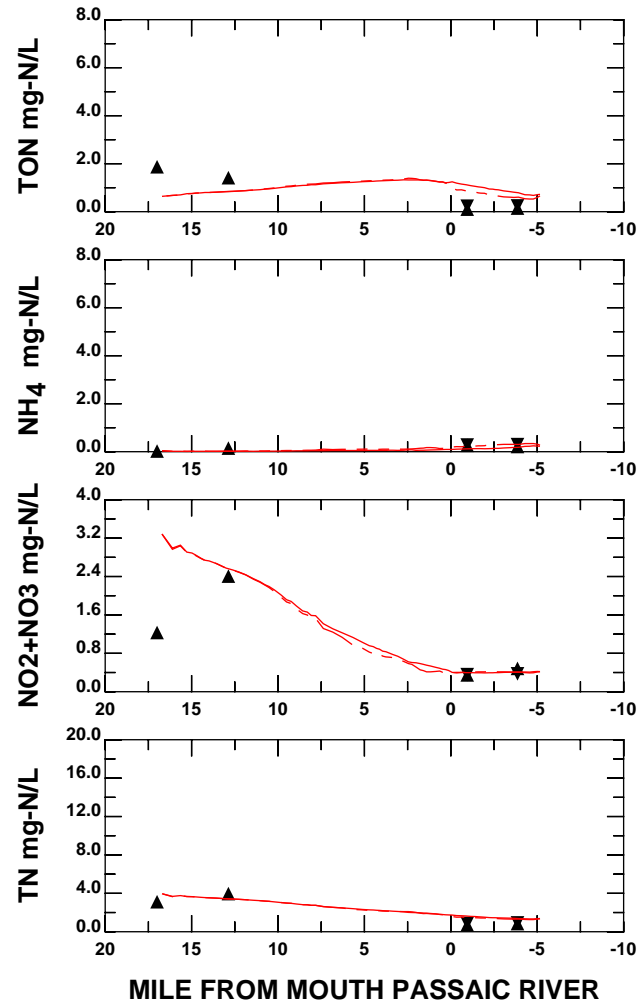
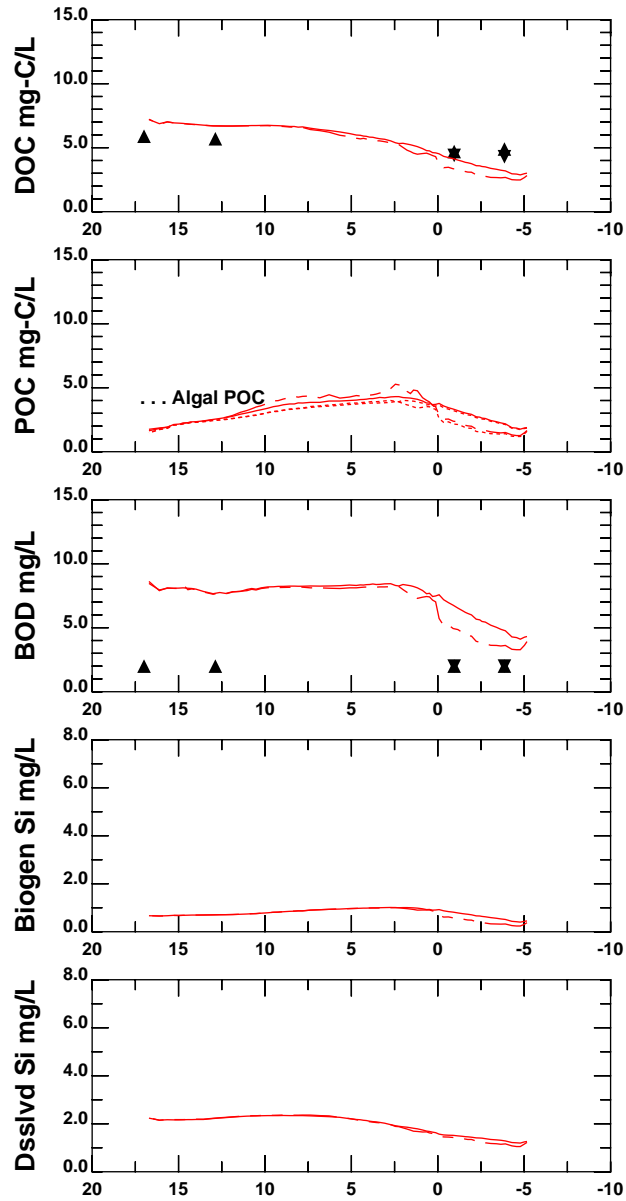




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708

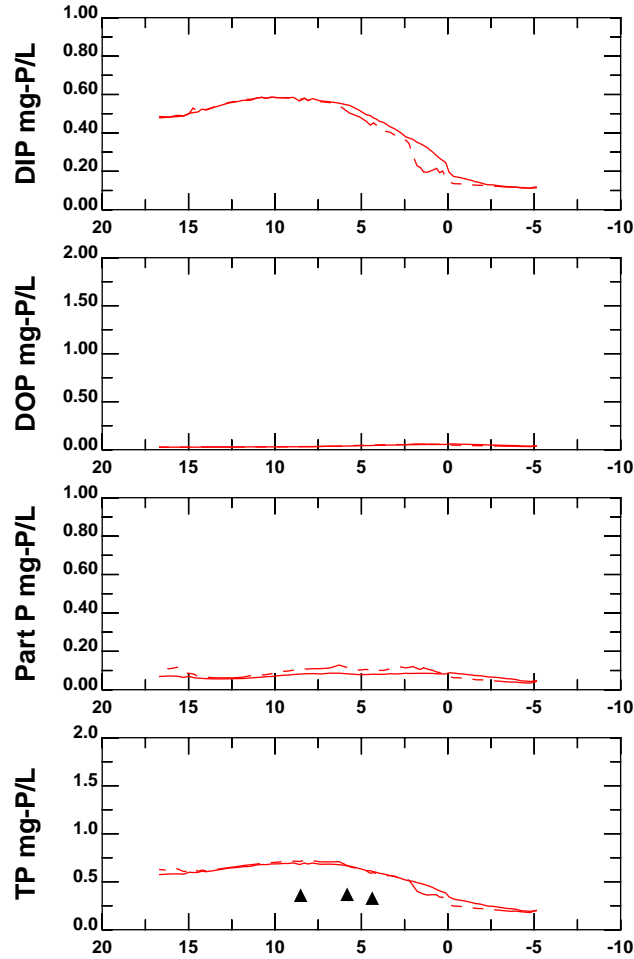
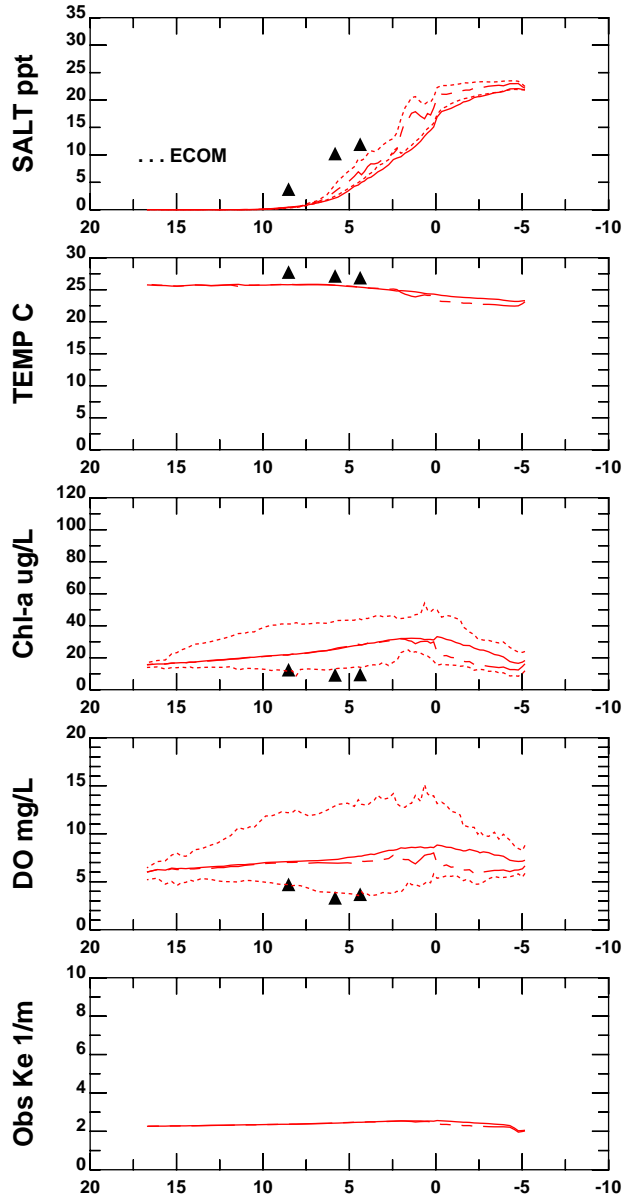


DATA  
NJHDG Jul 22, 2008

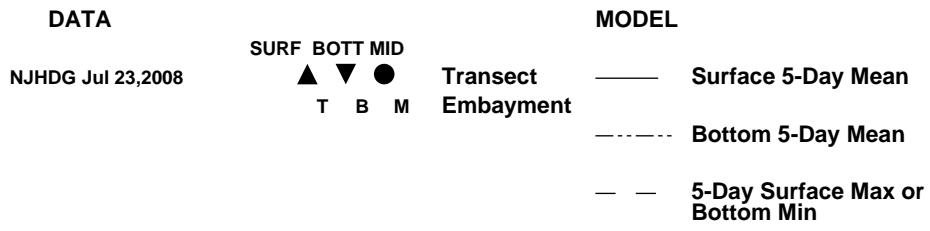
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

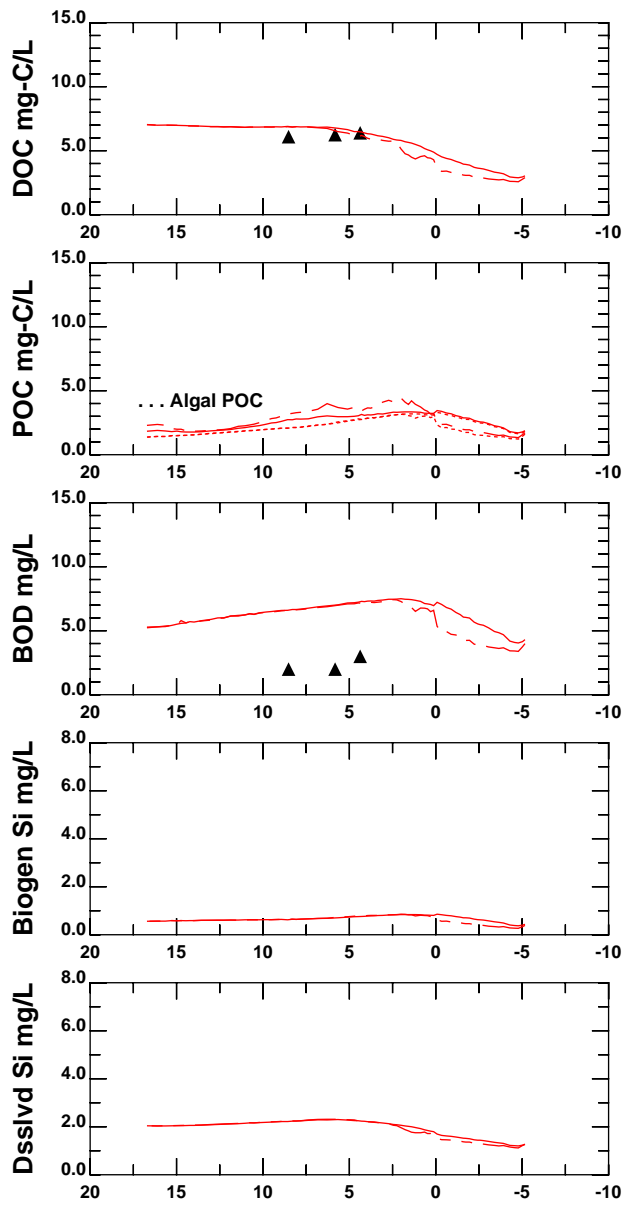
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



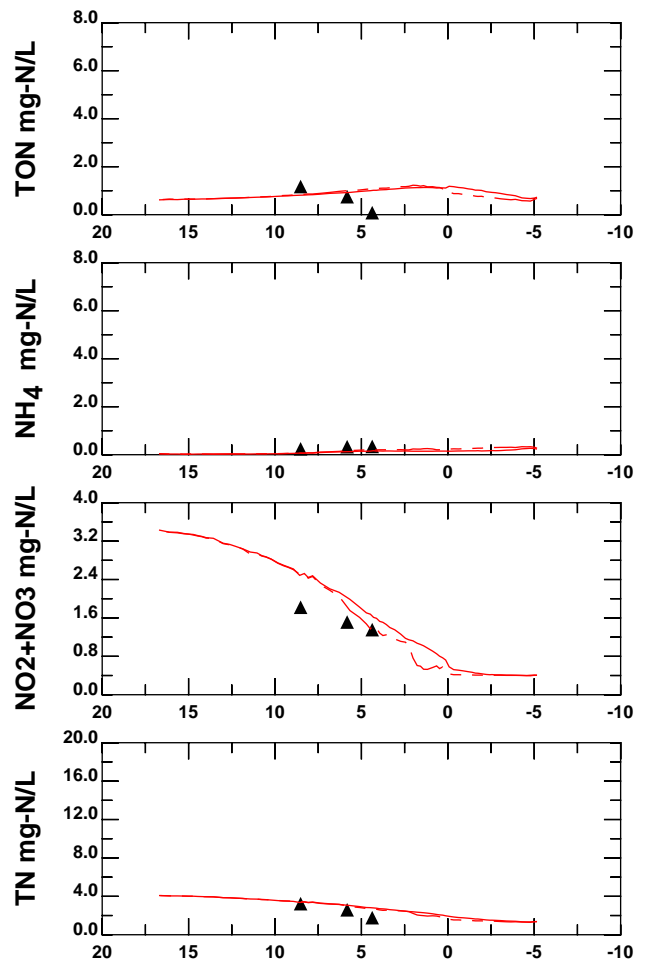
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

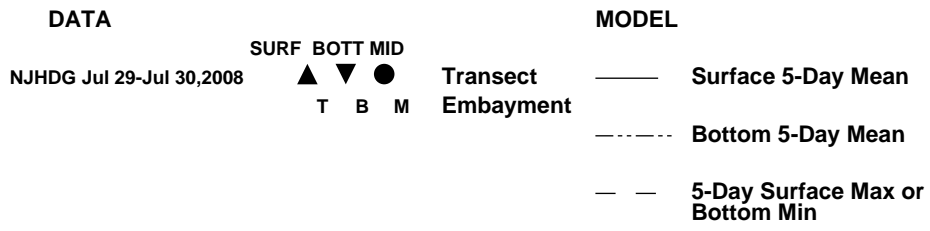
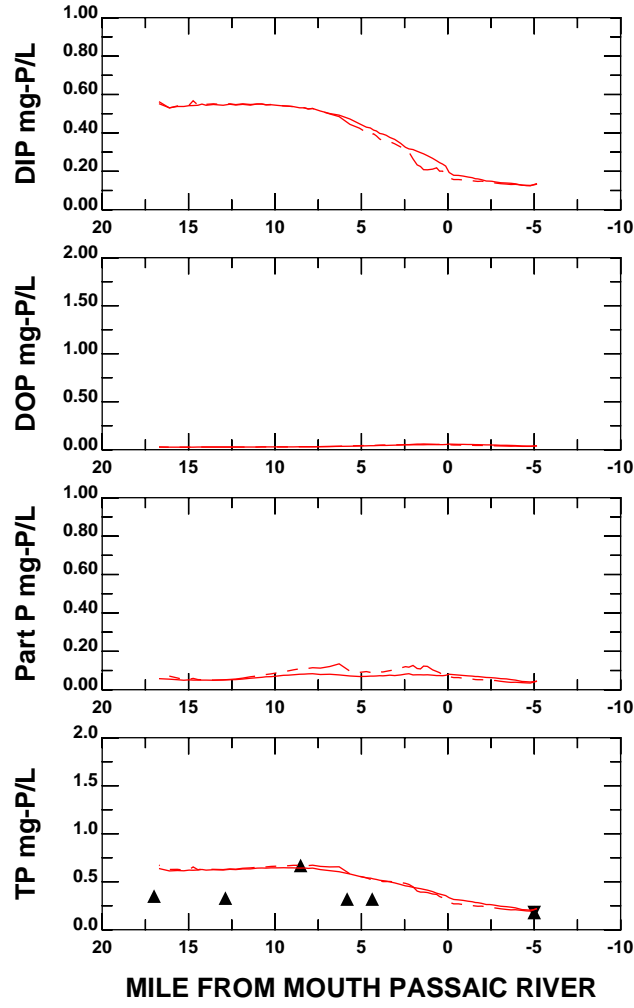
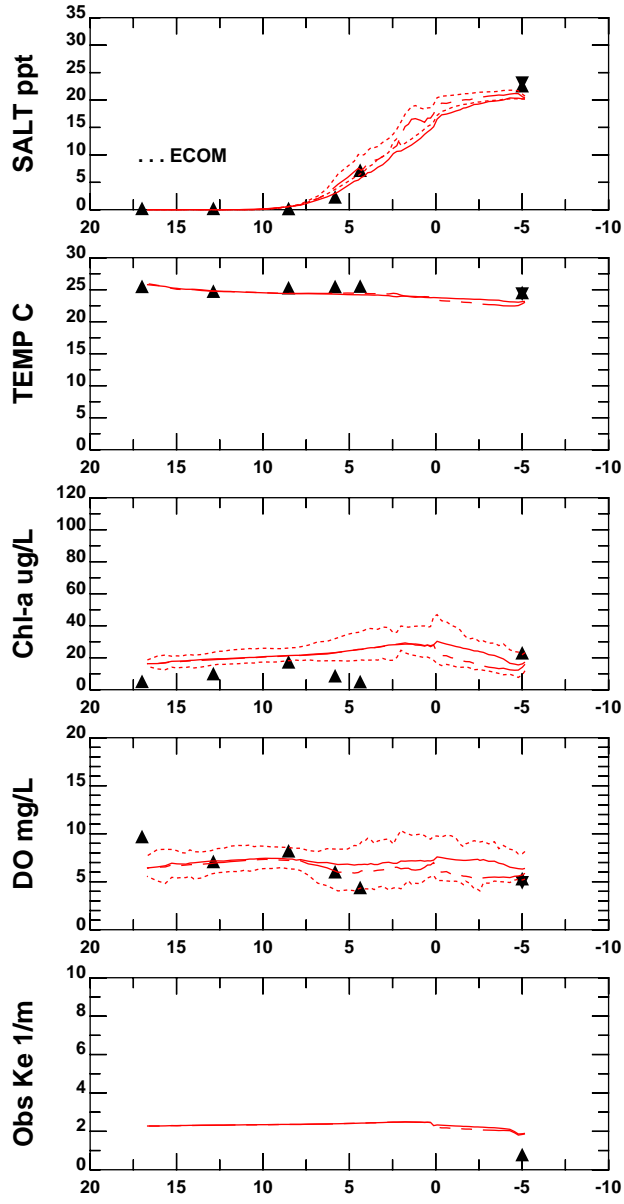
DATA  
NJHDG Jul 23, 2008

MODEL

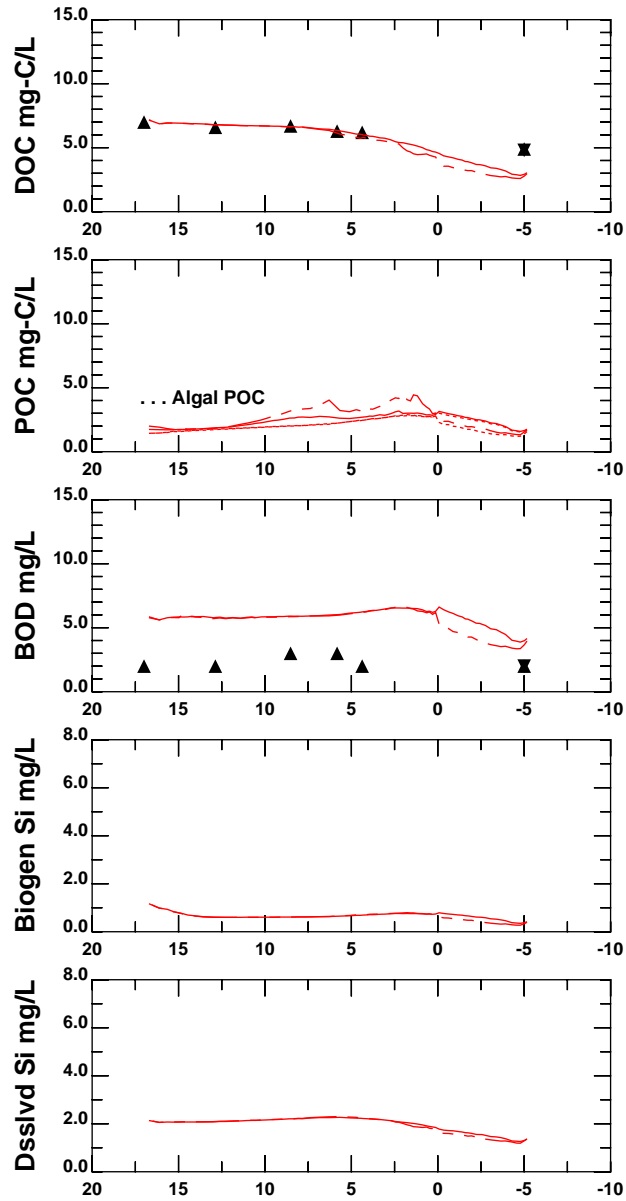
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



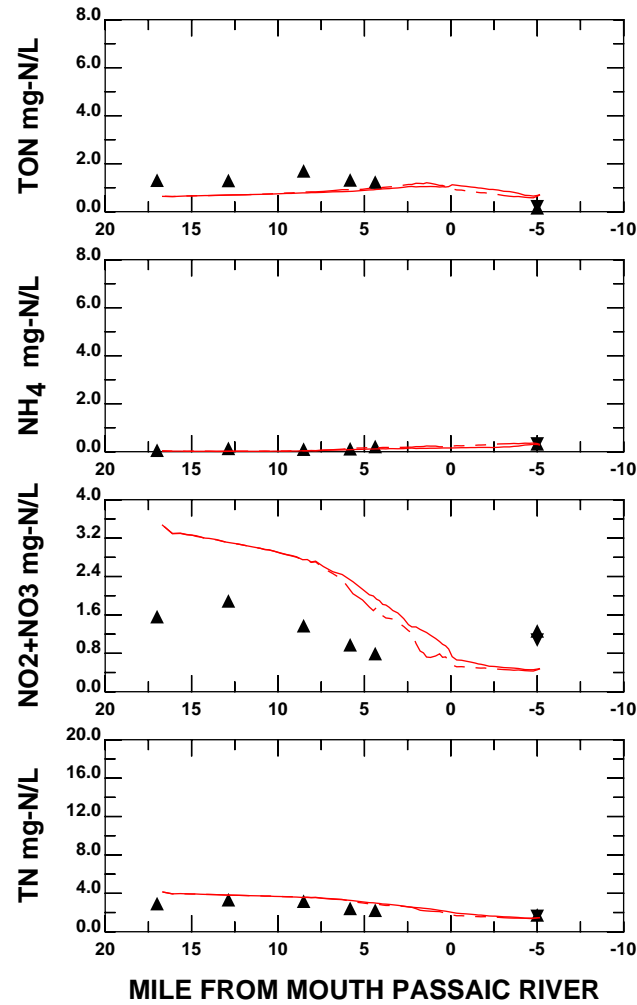
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



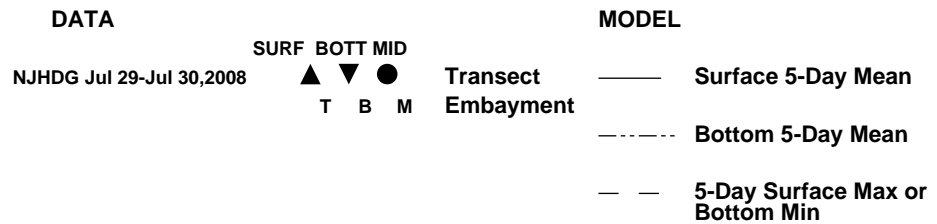
MILE FROM MOUTH PASSAIC RIVER

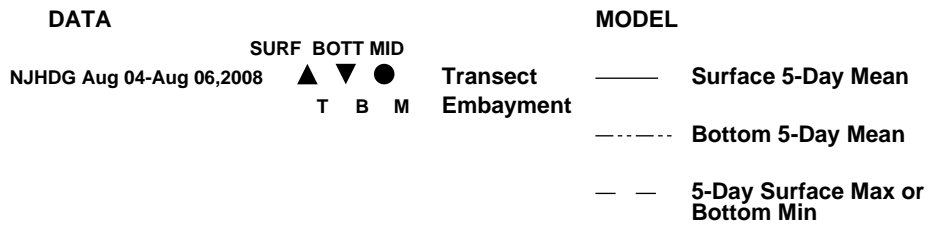
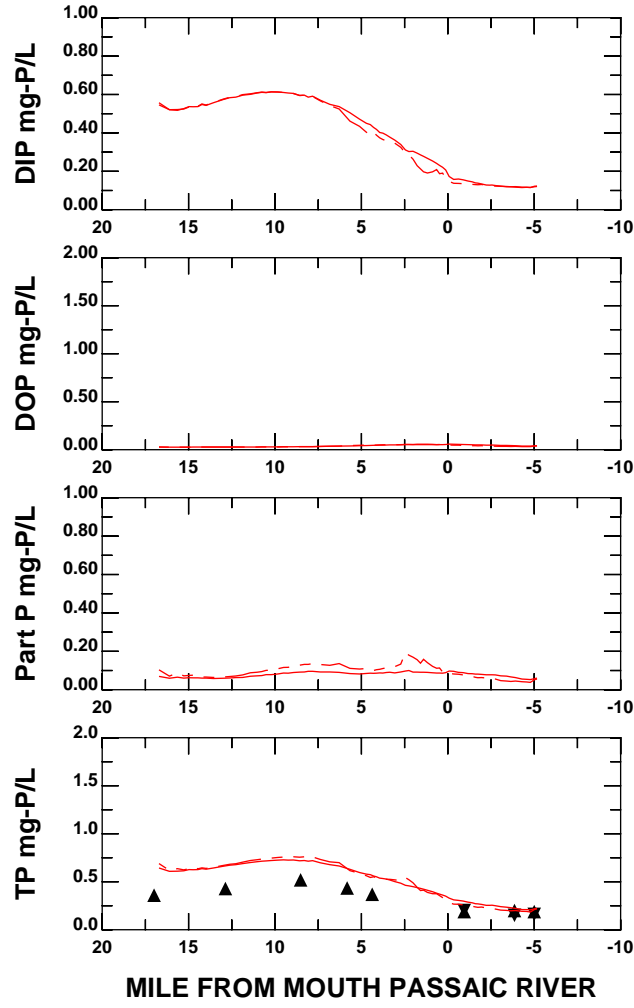
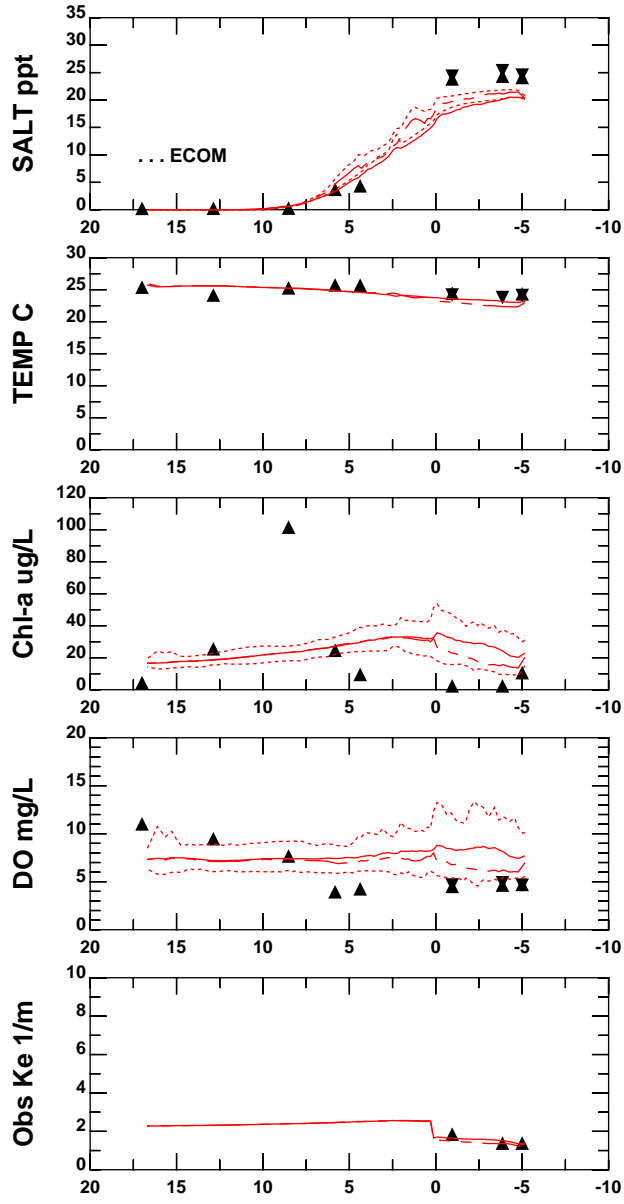
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



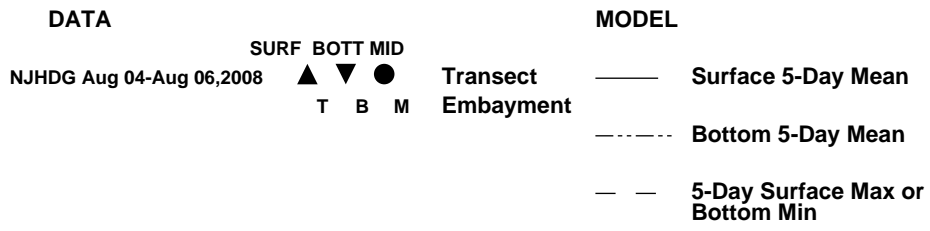
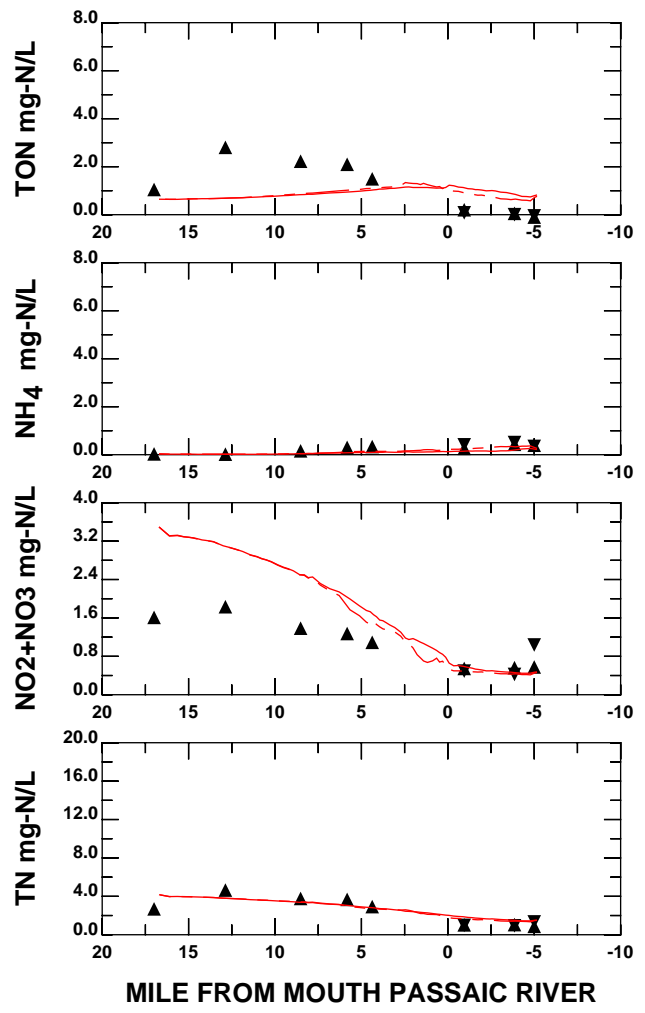
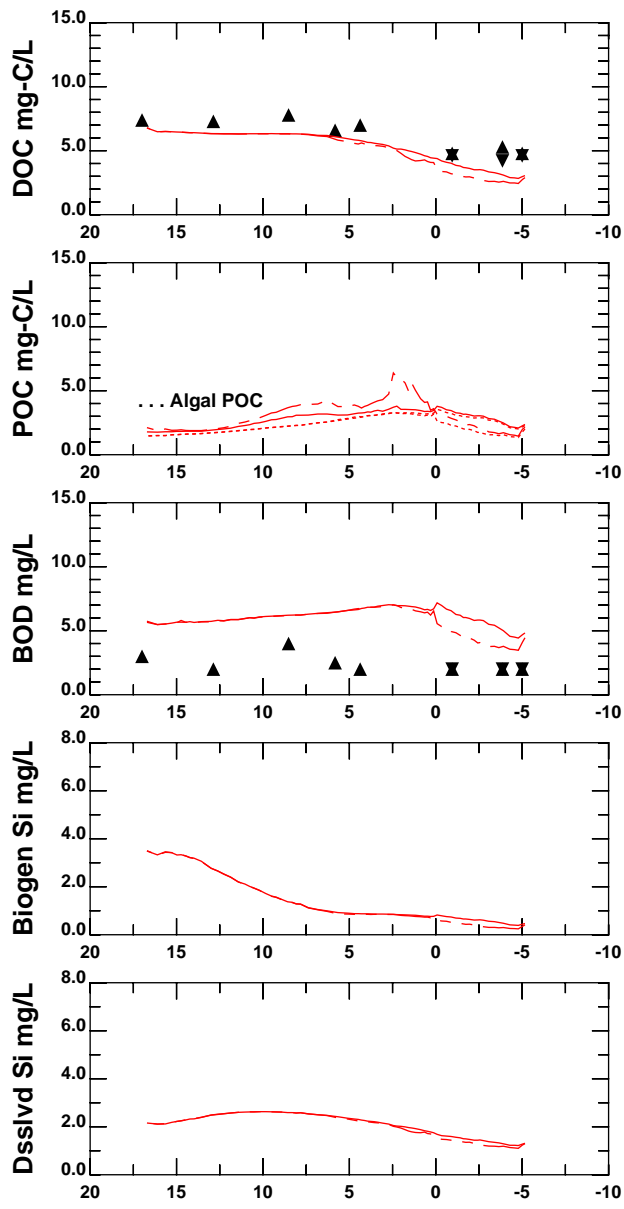
MILE FROM MOUTH PASSAIC RIVER



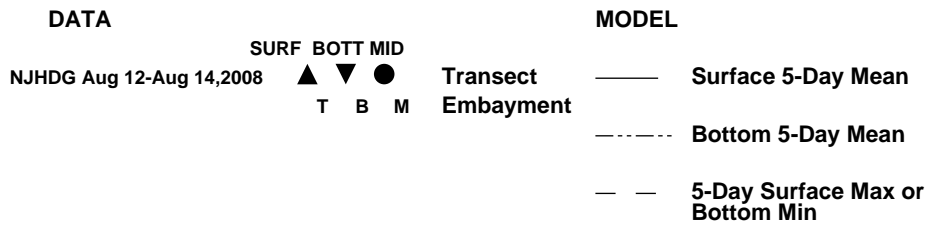
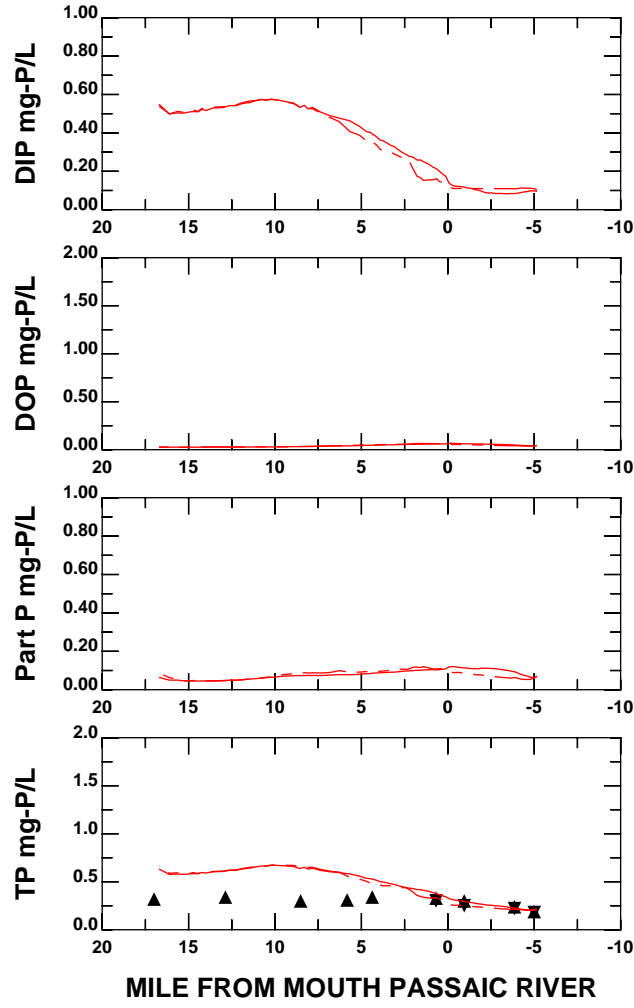
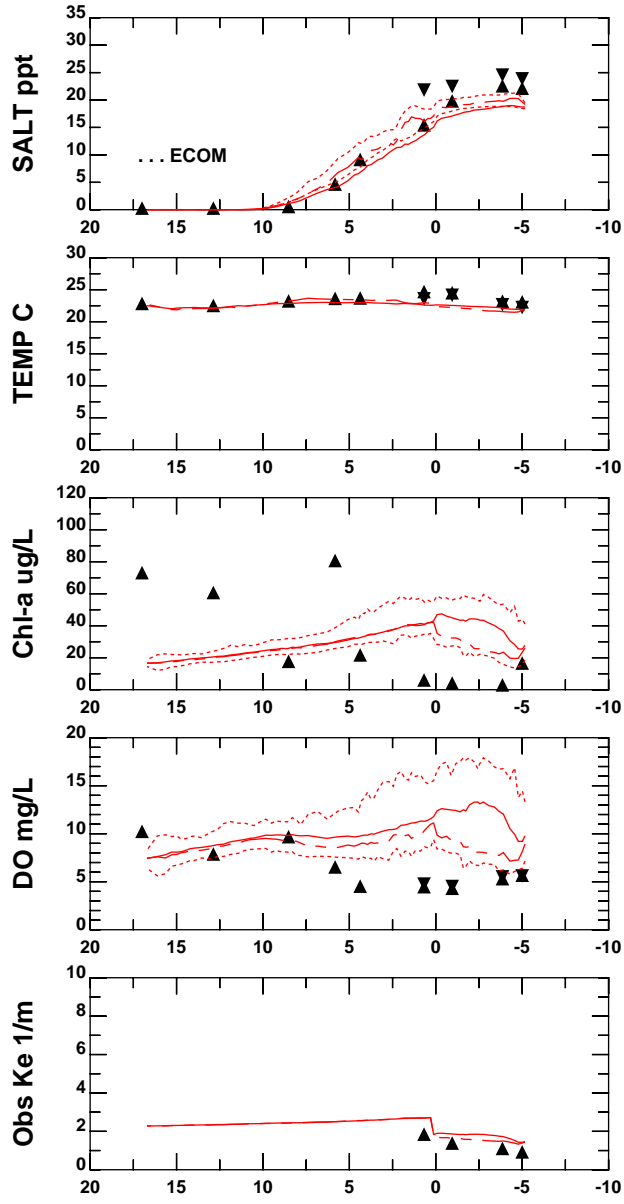


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

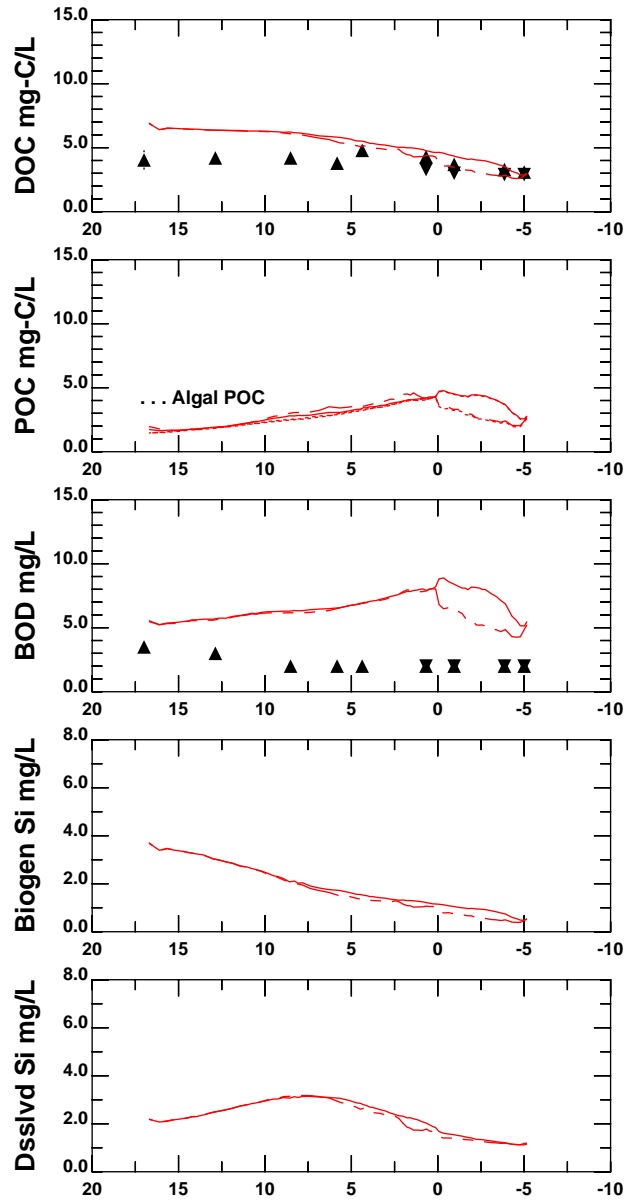




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



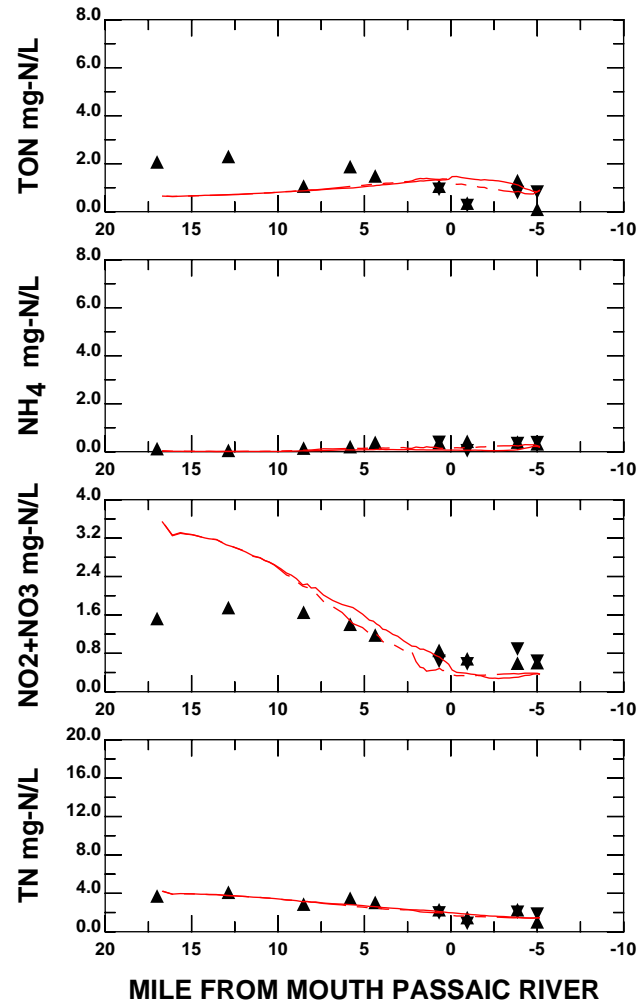
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



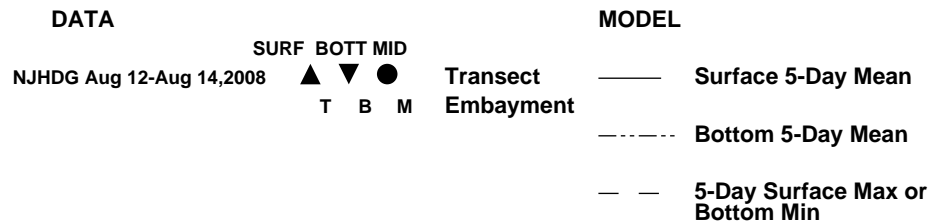
MILE FROM MOUTH PASSAIC RIVER

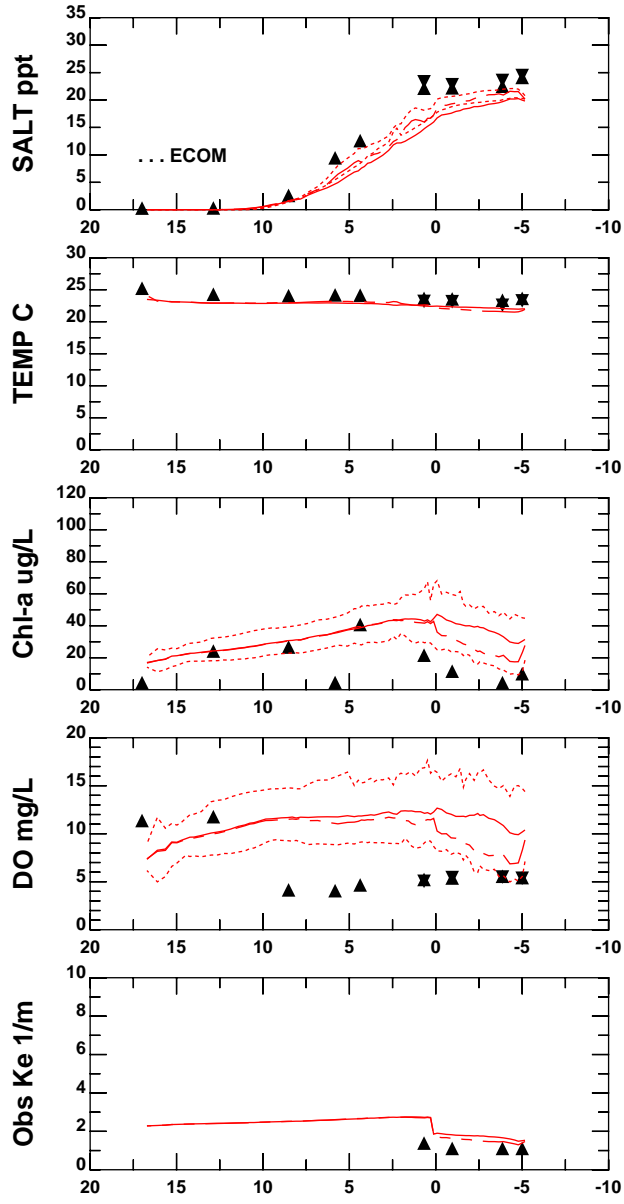
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



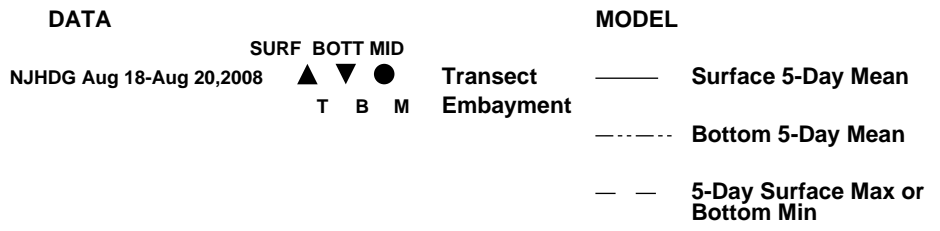
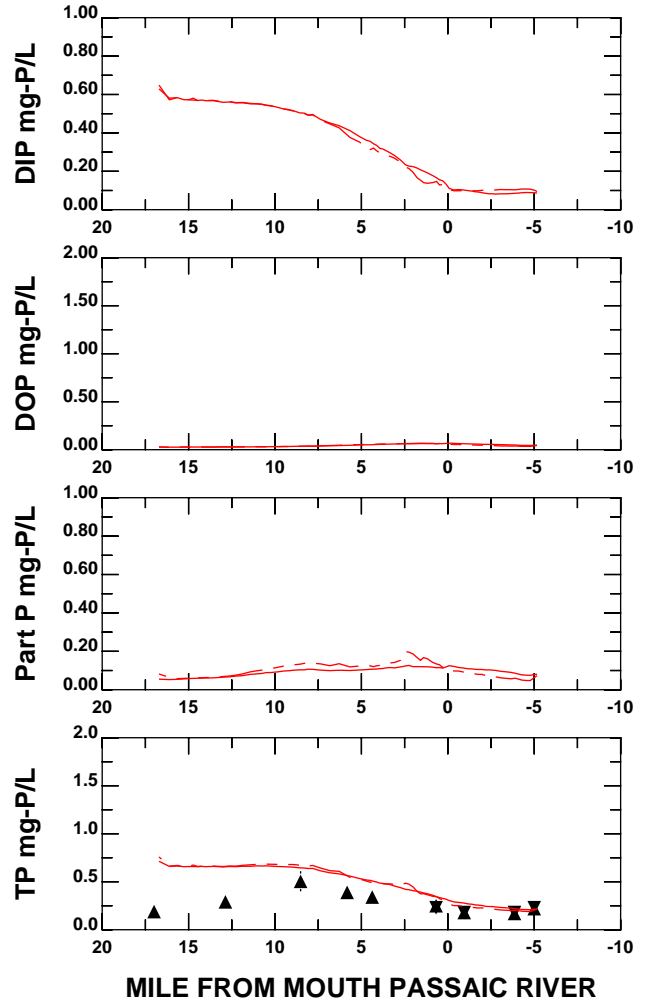
MILE FROM MOUTH PASSAIC RIVER

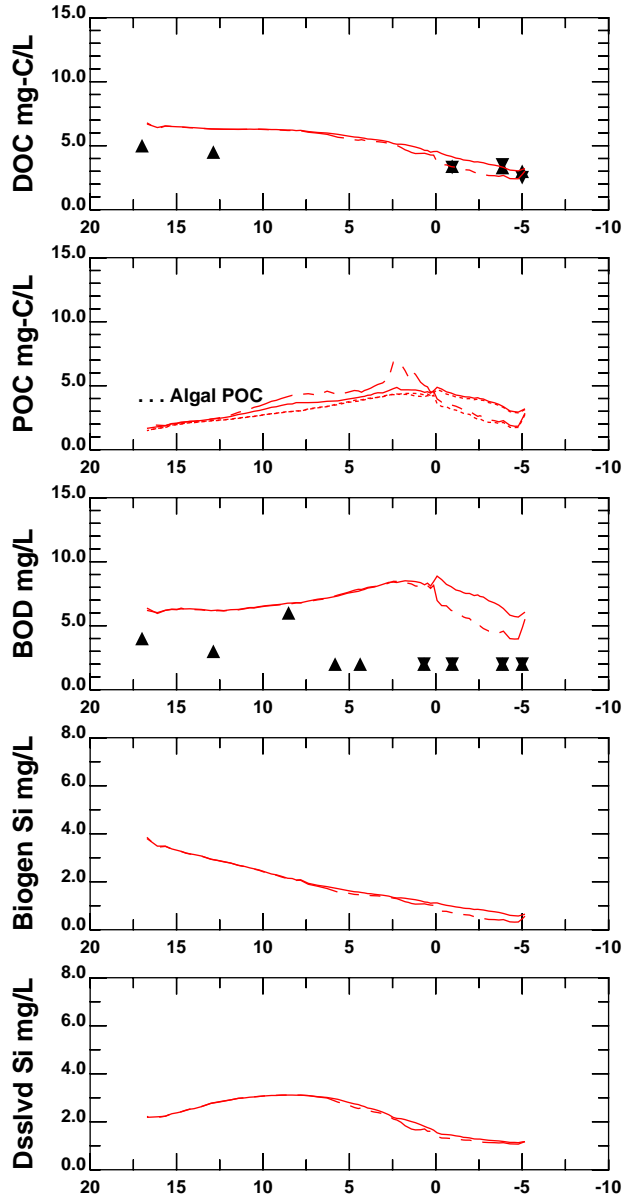




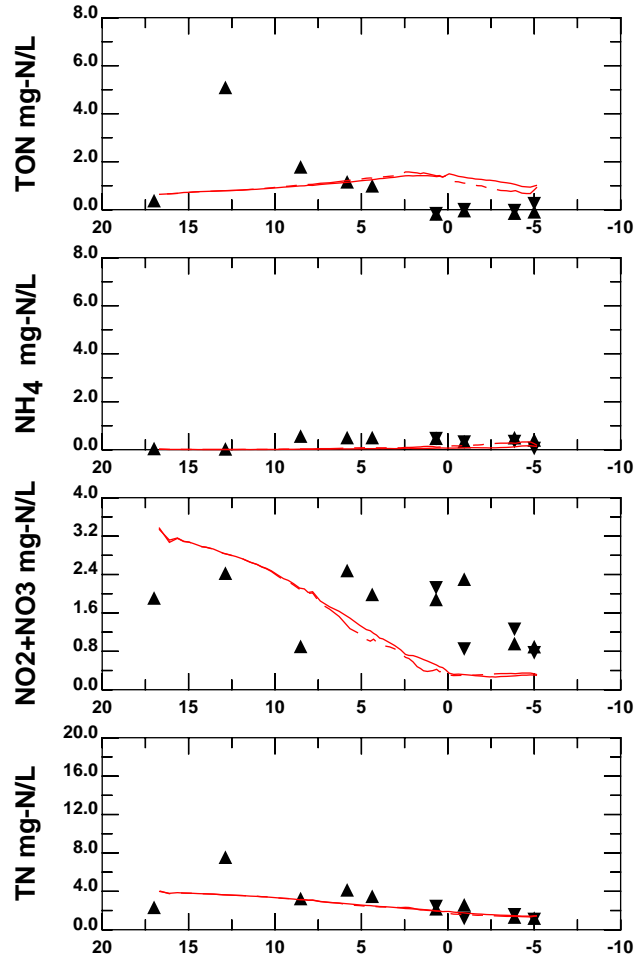
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

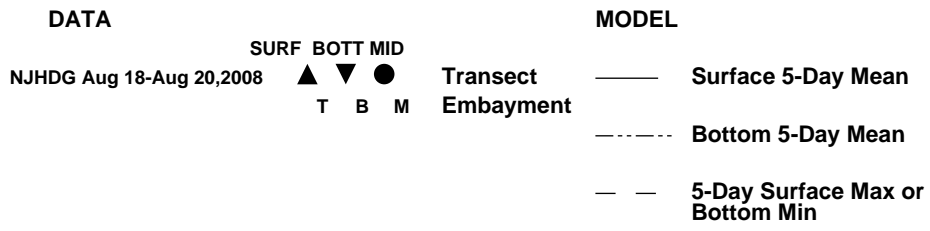




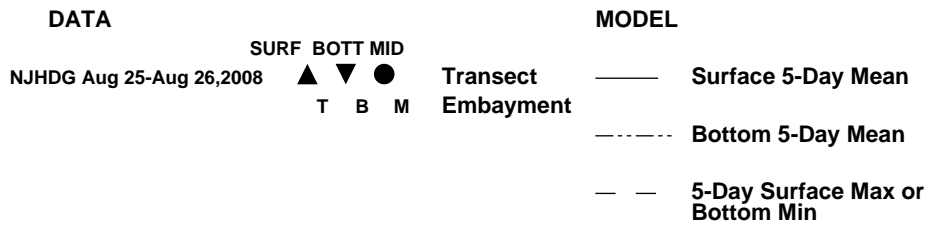
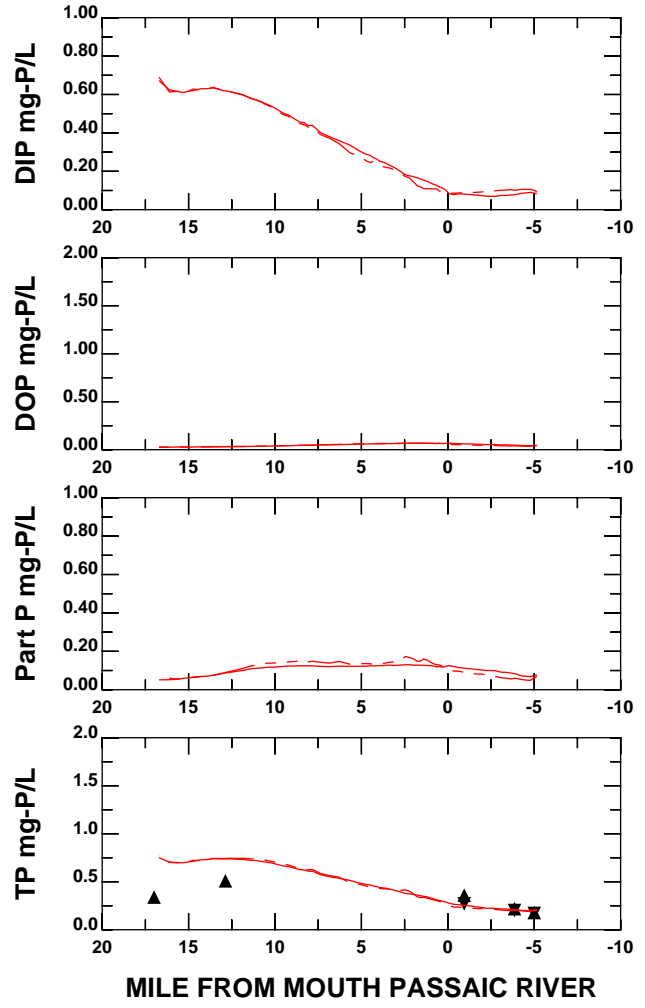
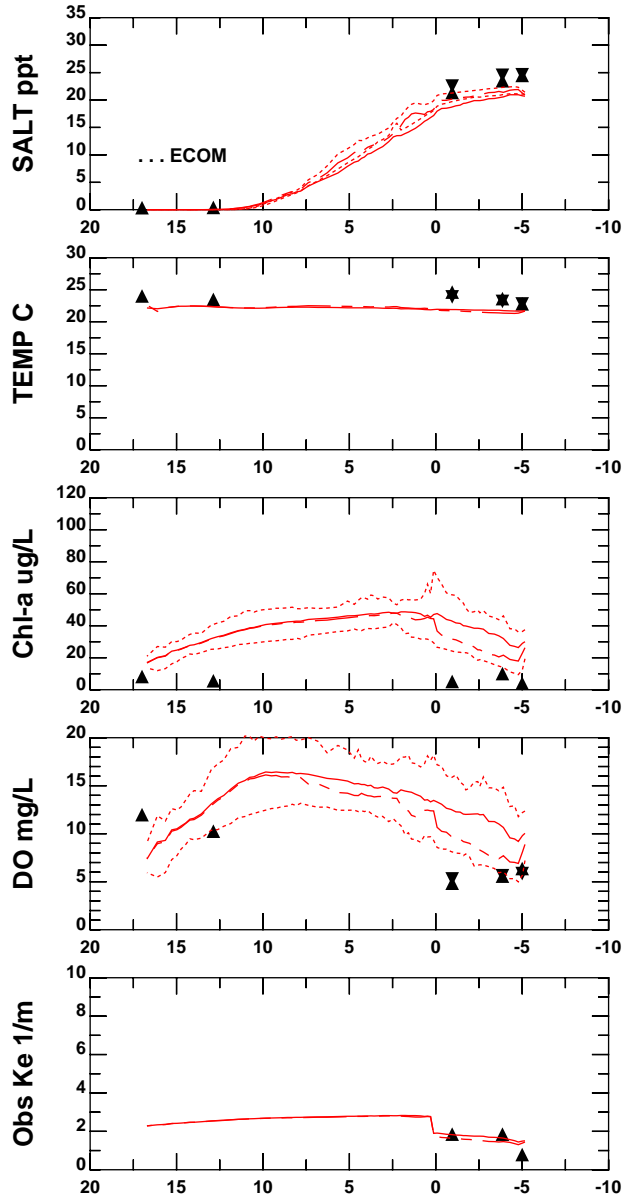
MILE FROM MOUTH PASSAIC RIVER



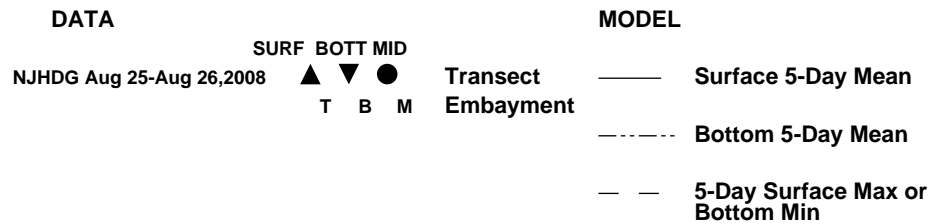
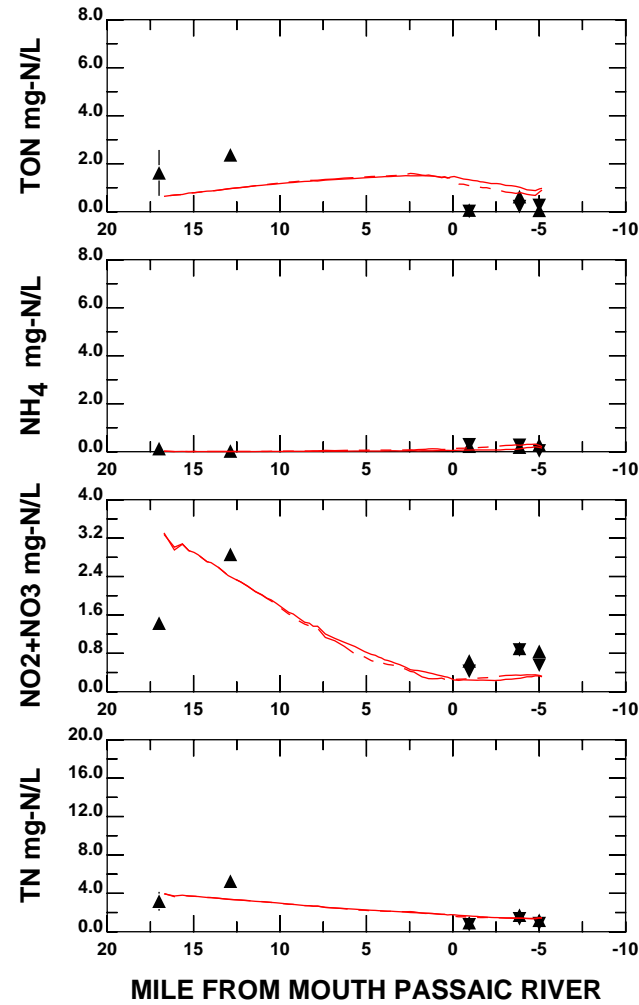
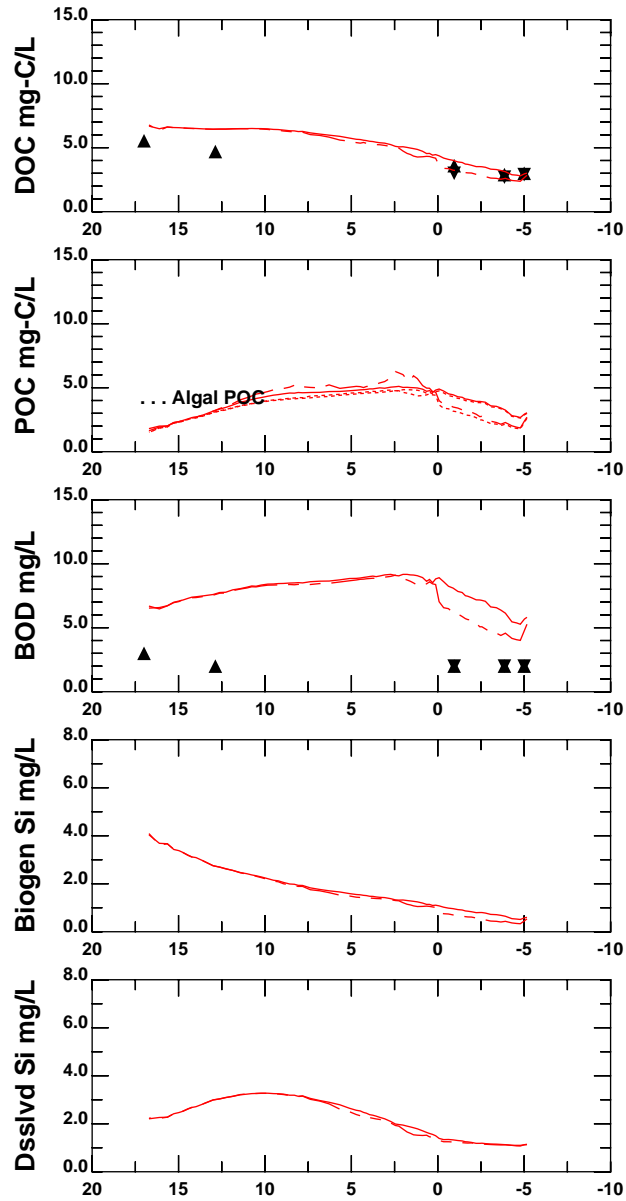
MILE FROM MOUTH PASSAIC RIVER



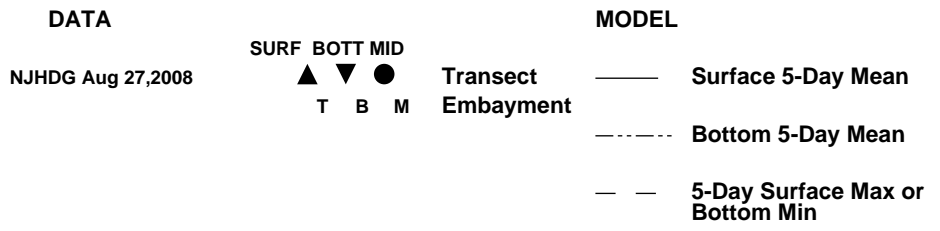
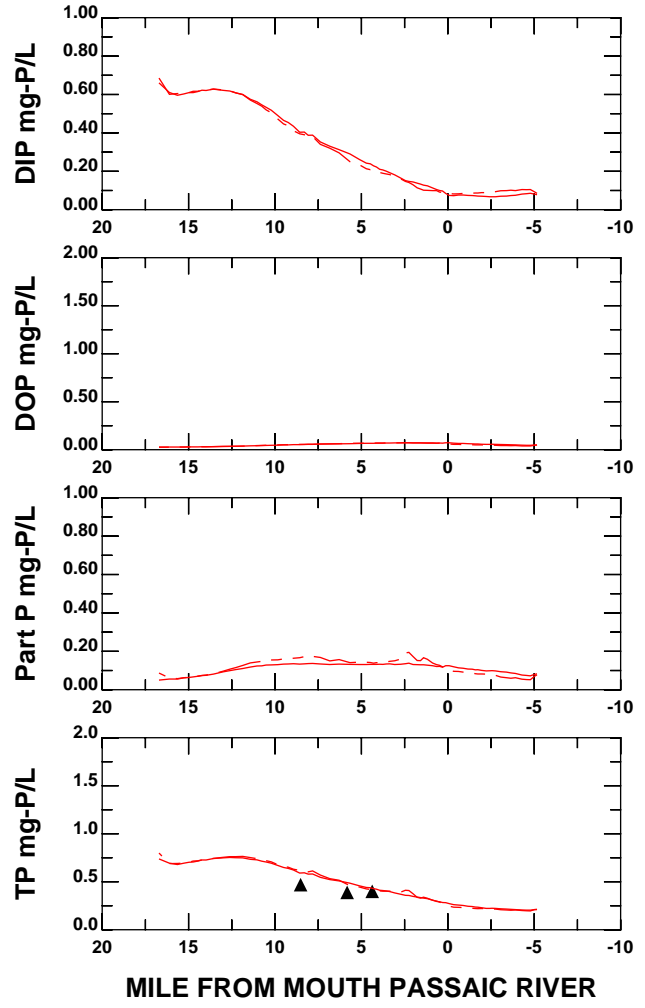
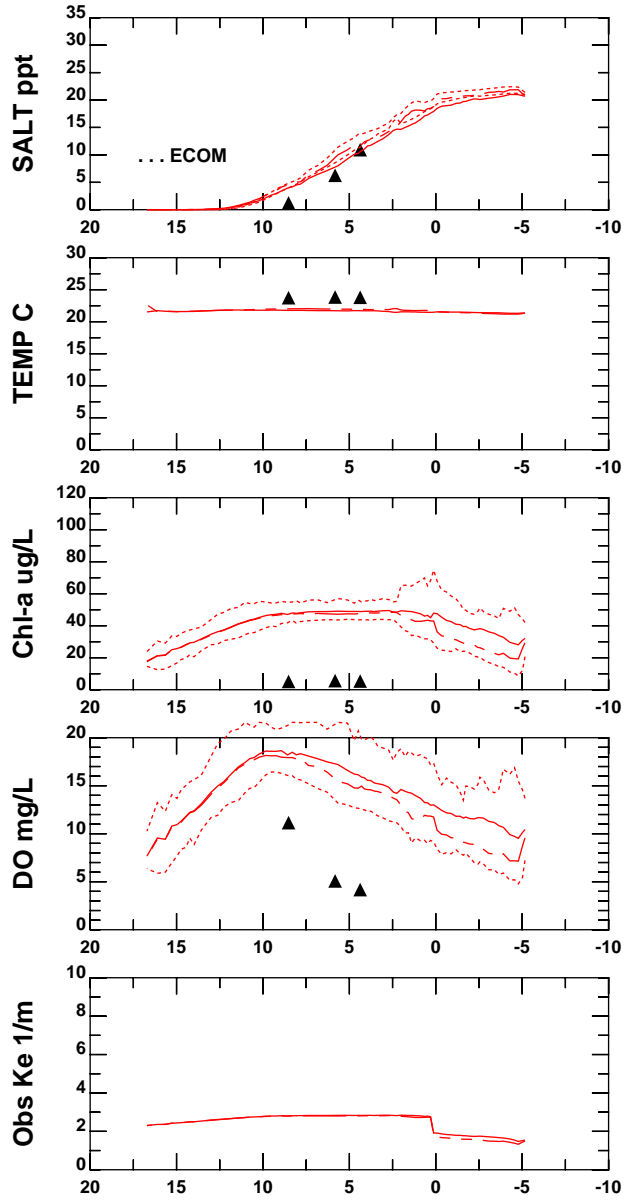
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

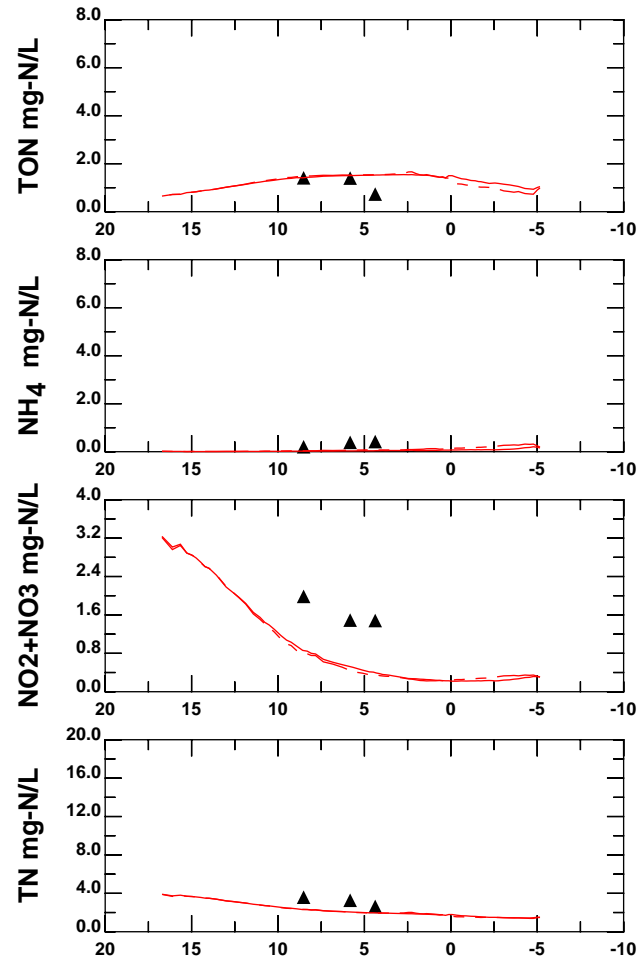
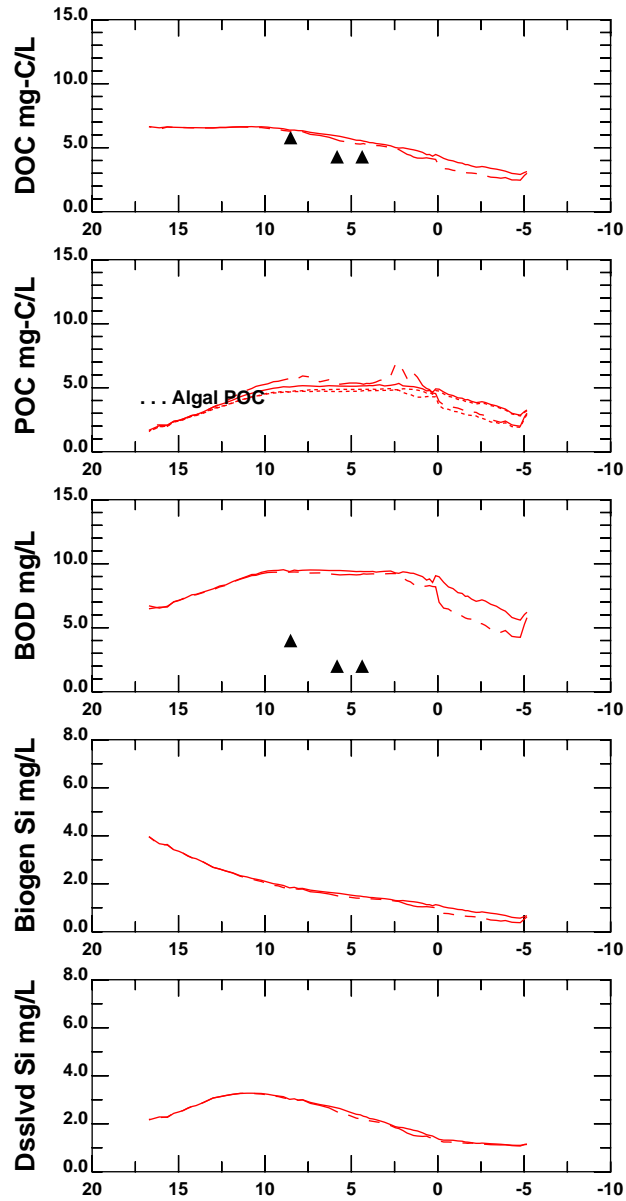


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708





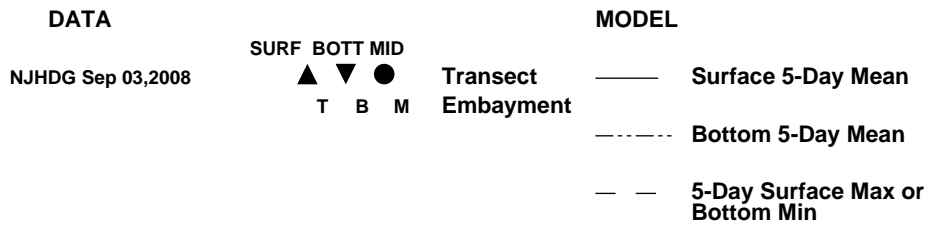
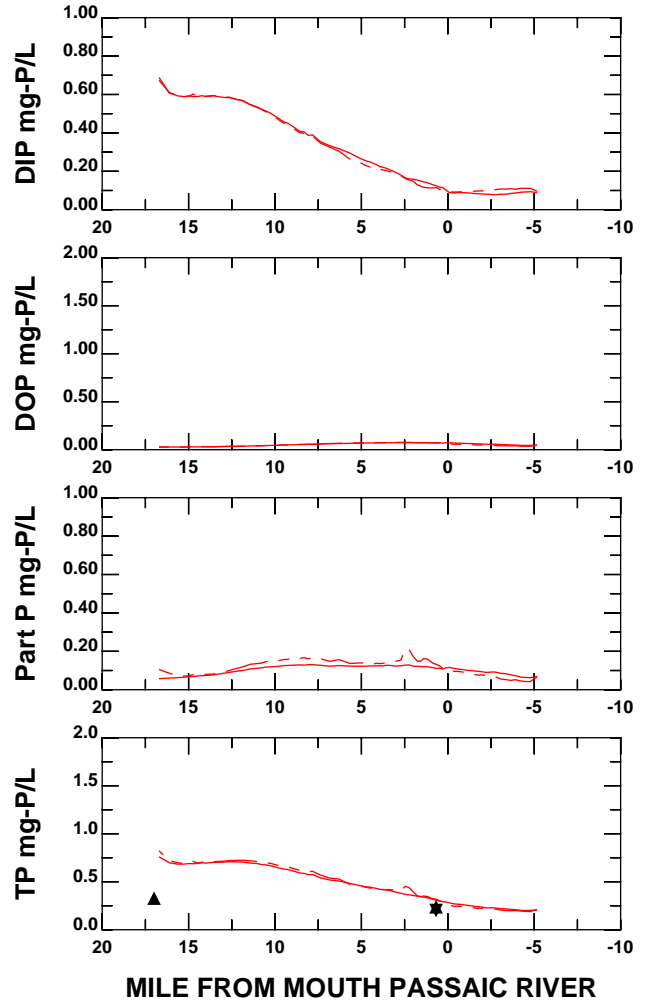
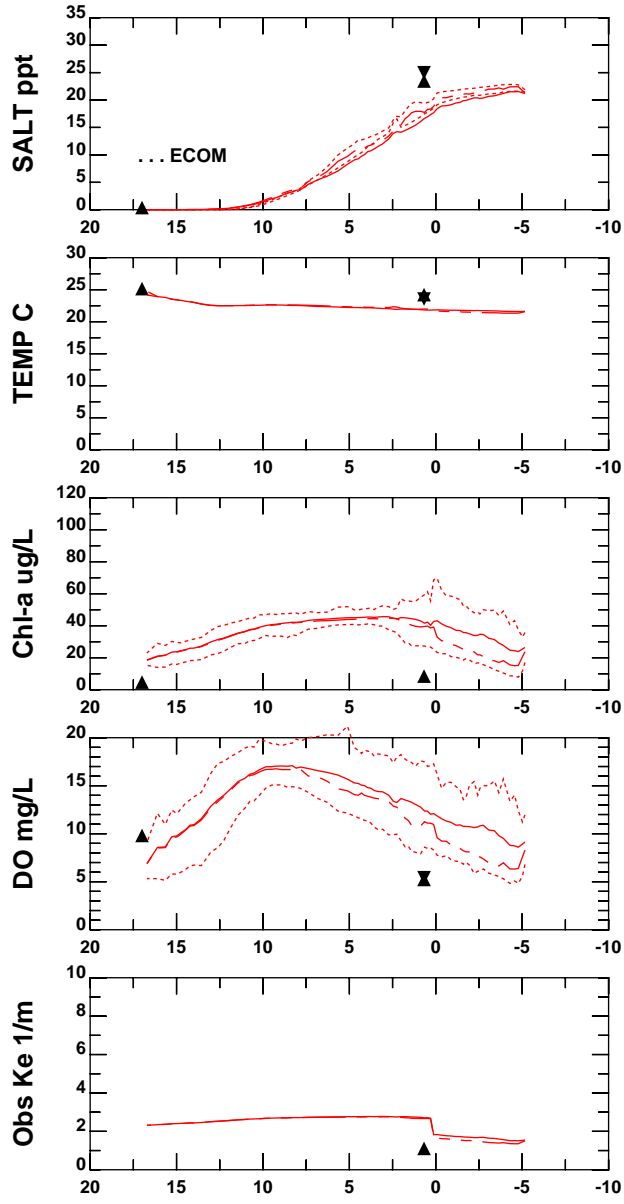
DATA  
NJHDG Aug 27,2008

MODEL

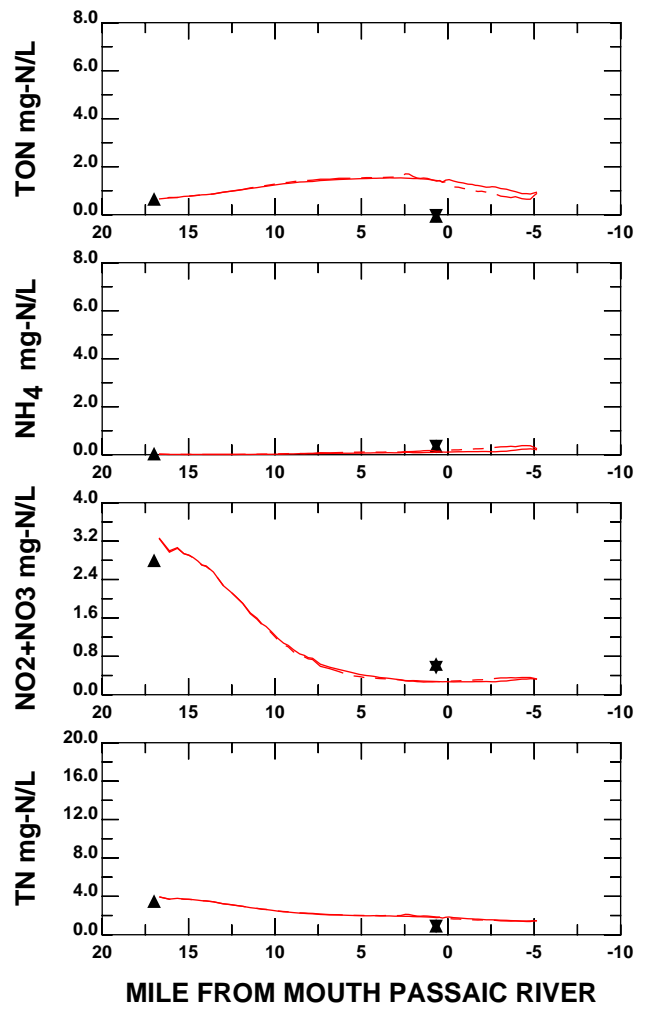
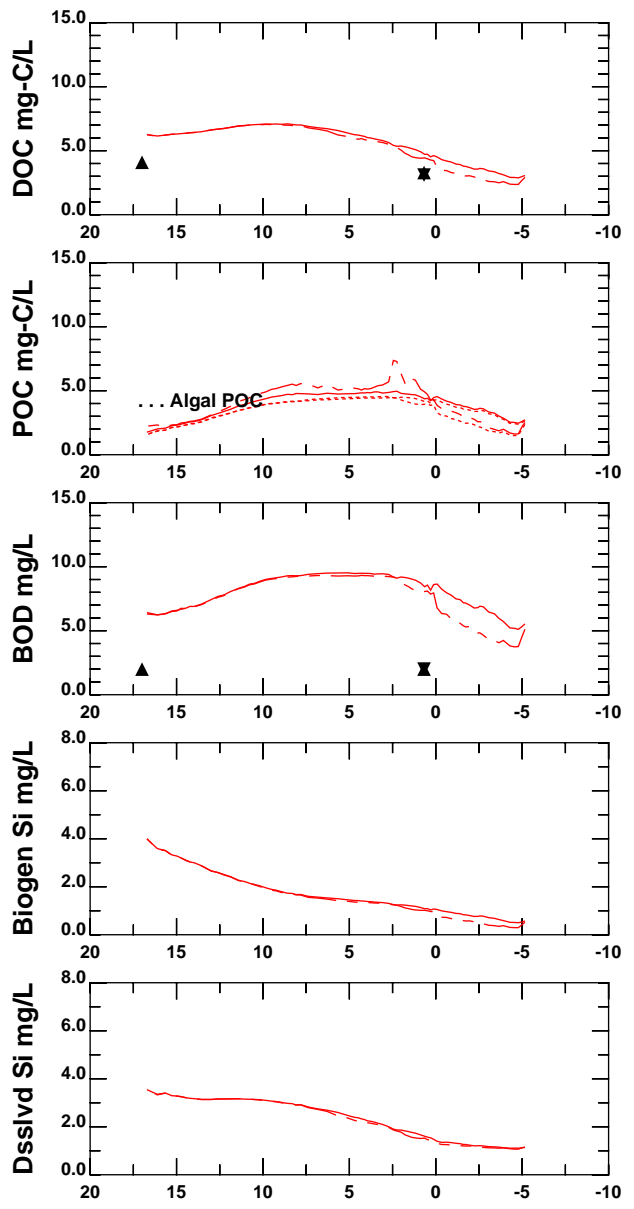
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



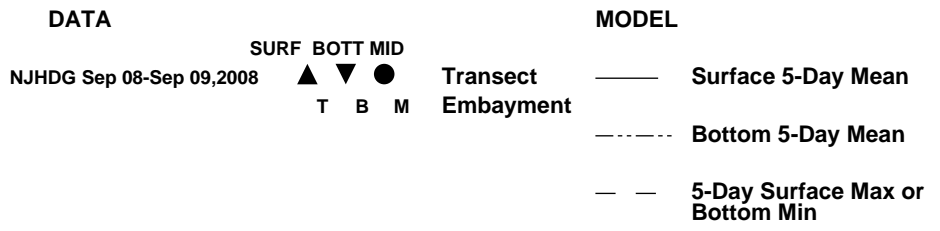
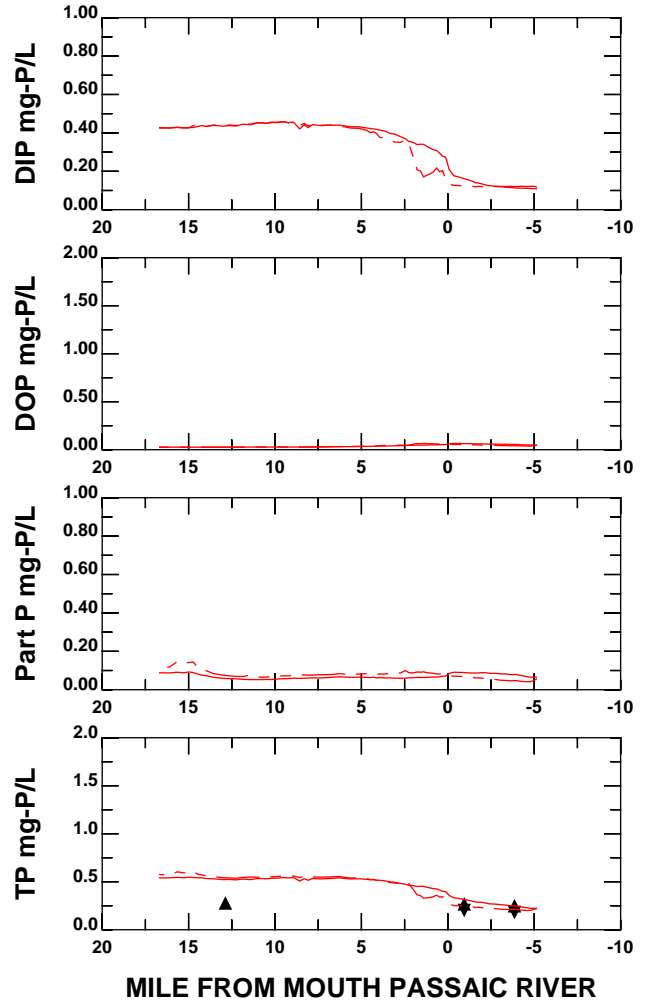
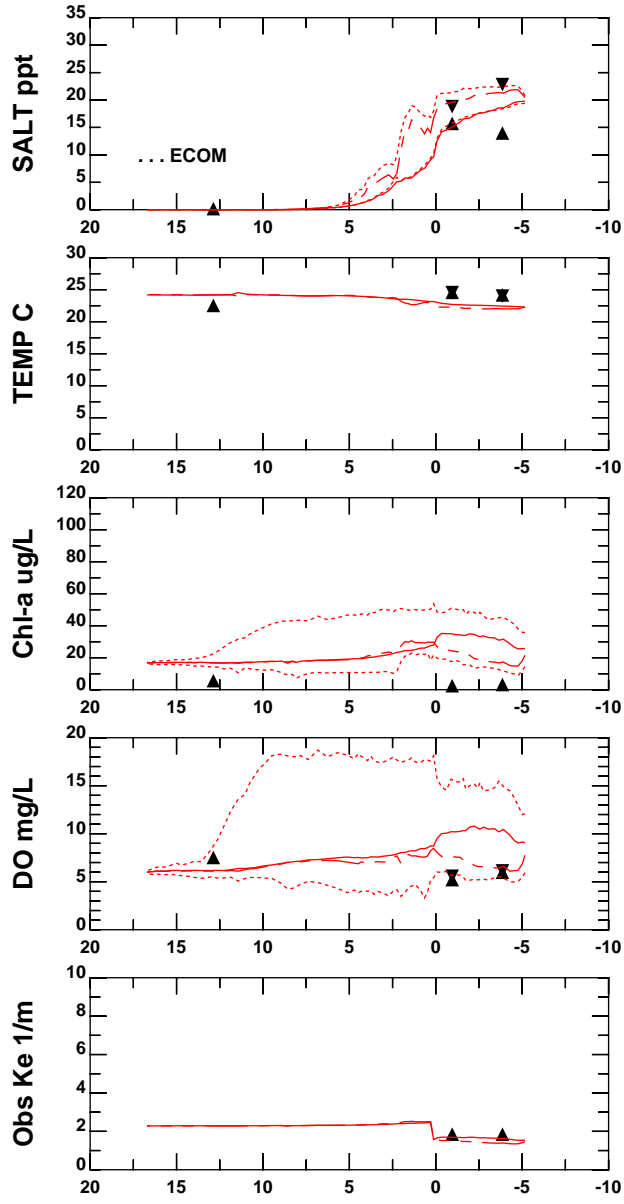
DATA  
NJHDG Sep 03,2008

MODEL

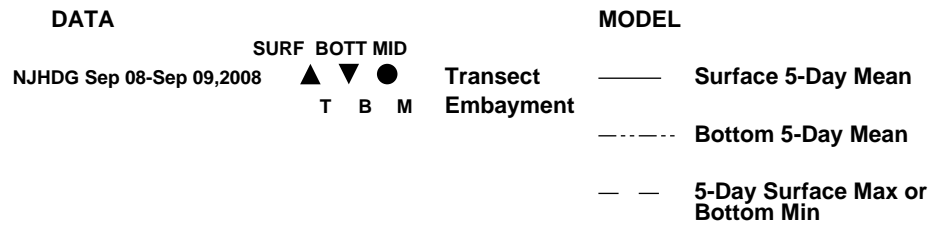
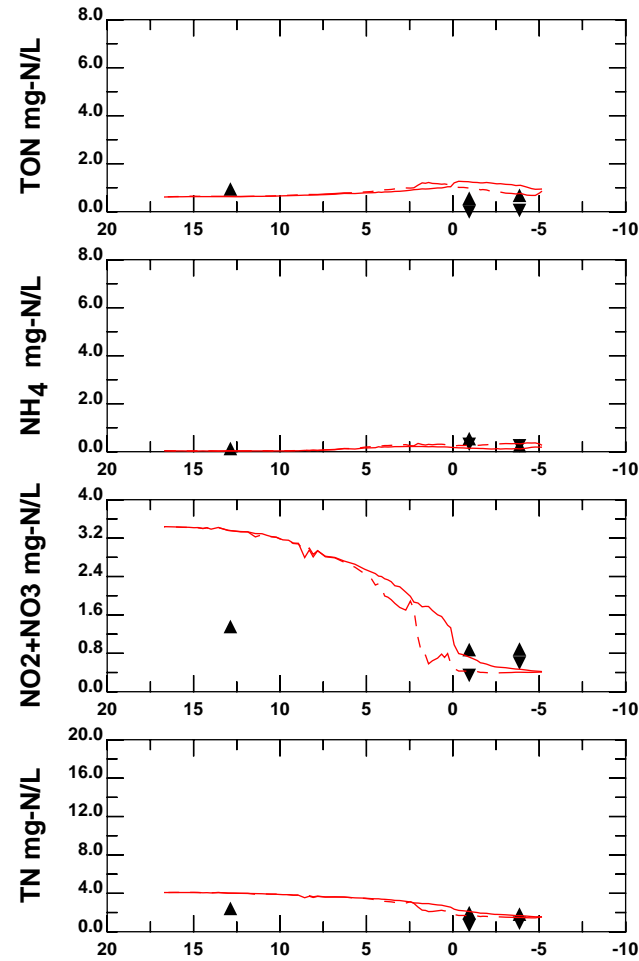
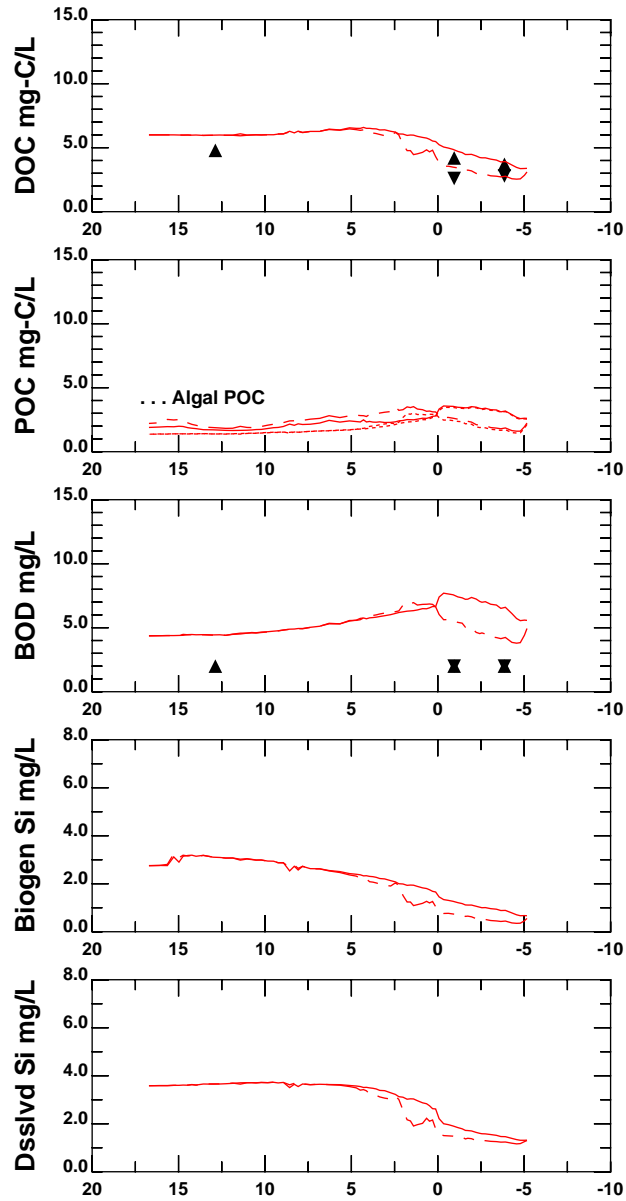
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

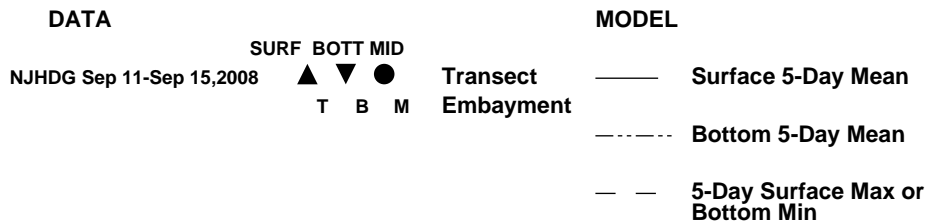
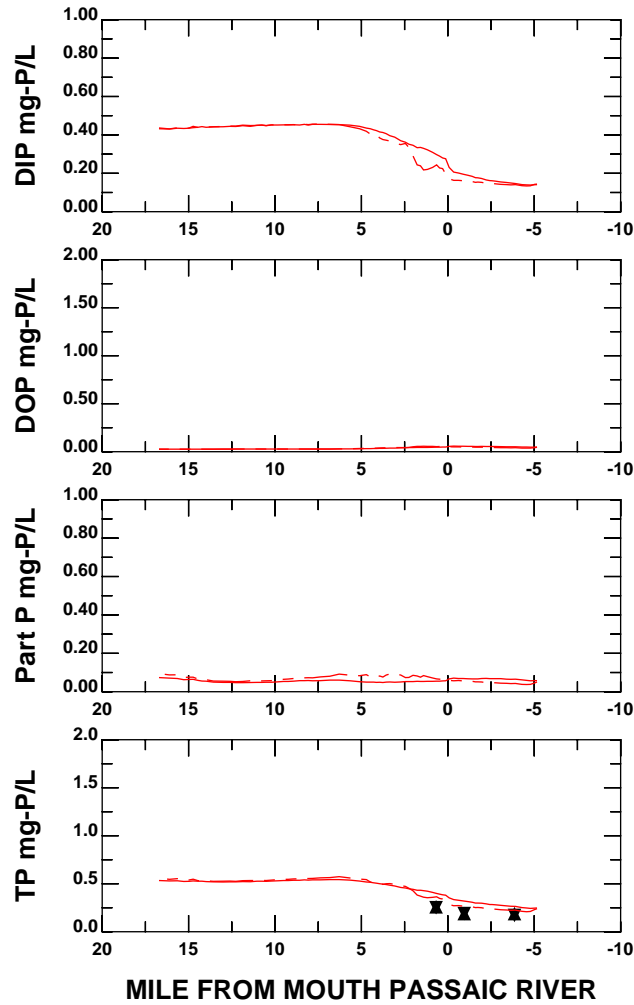
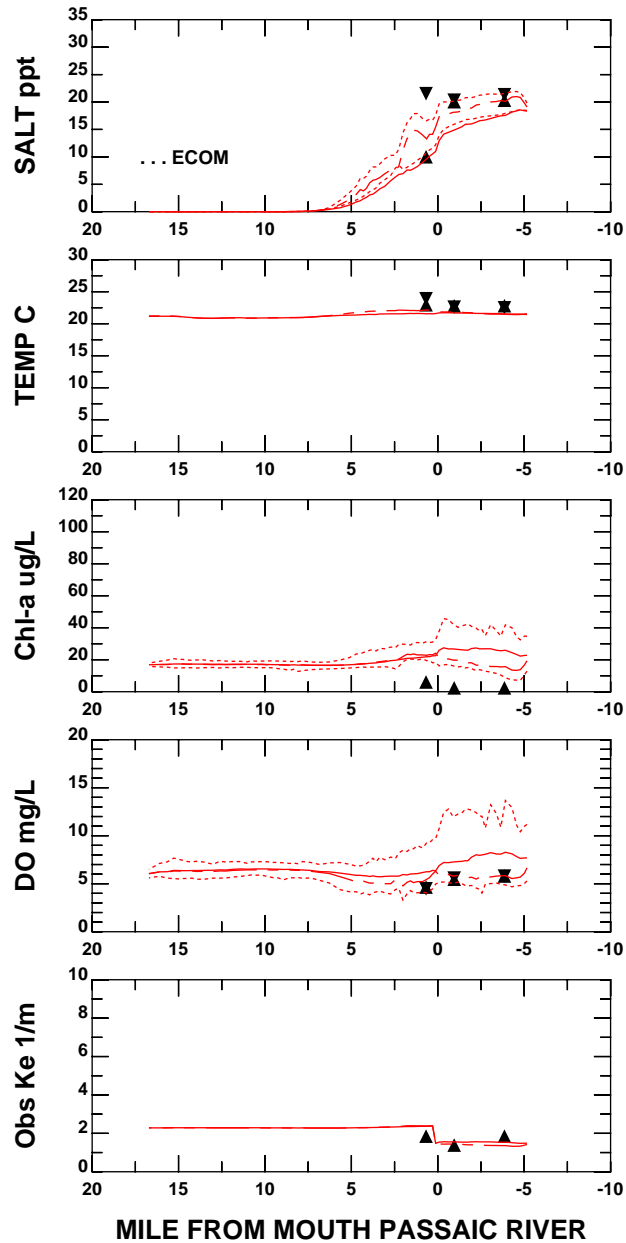
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0708



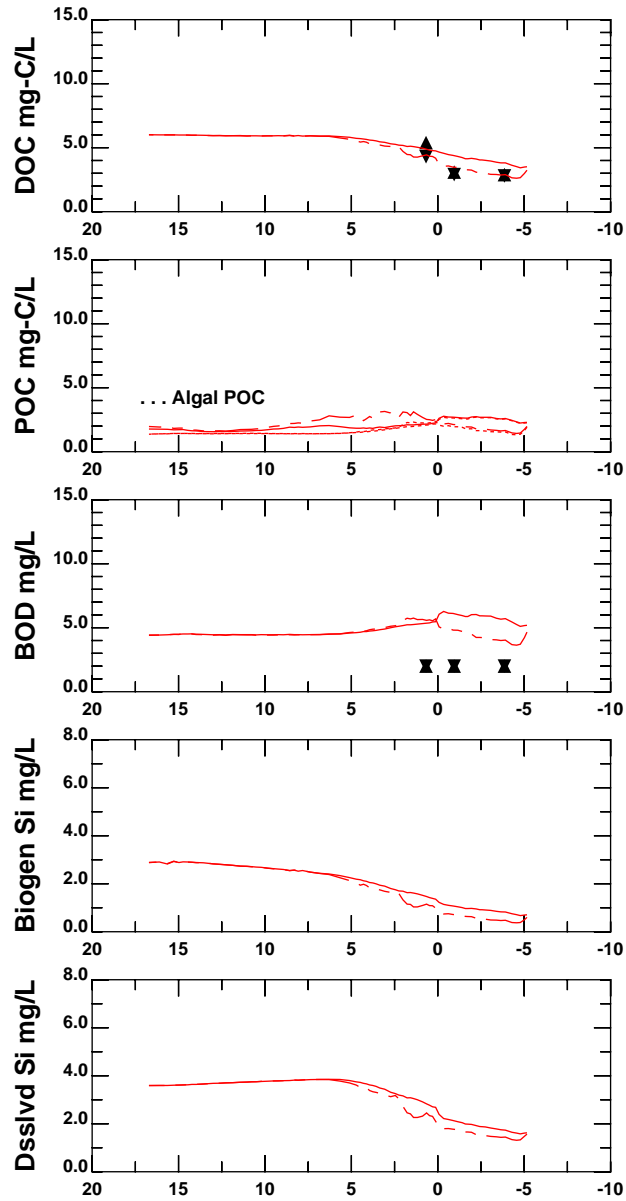
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



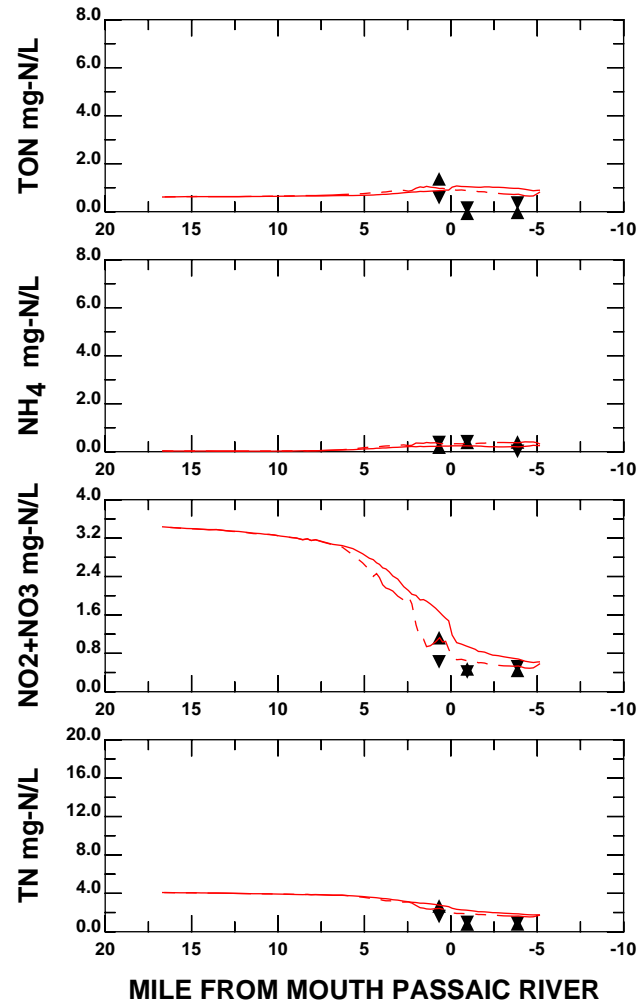
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



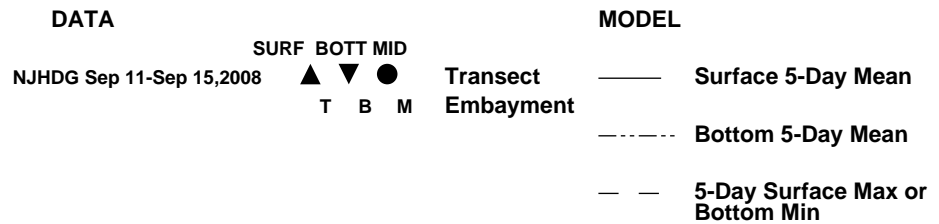
MILE FROM MOUTH PASSAIC RIVER

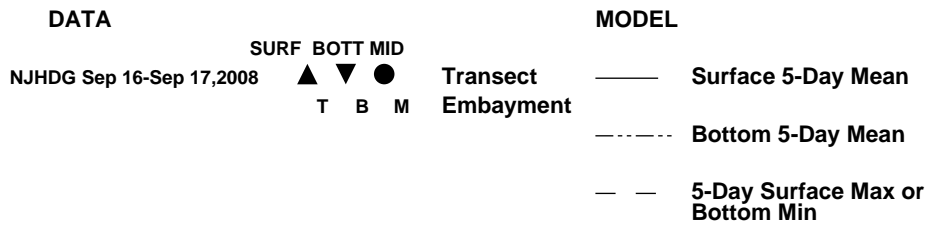
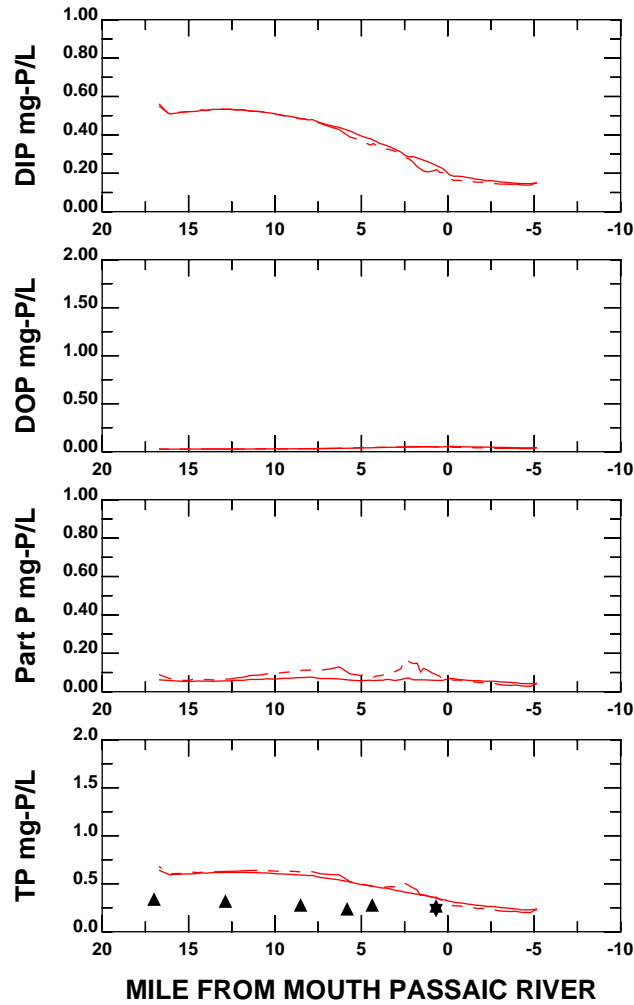
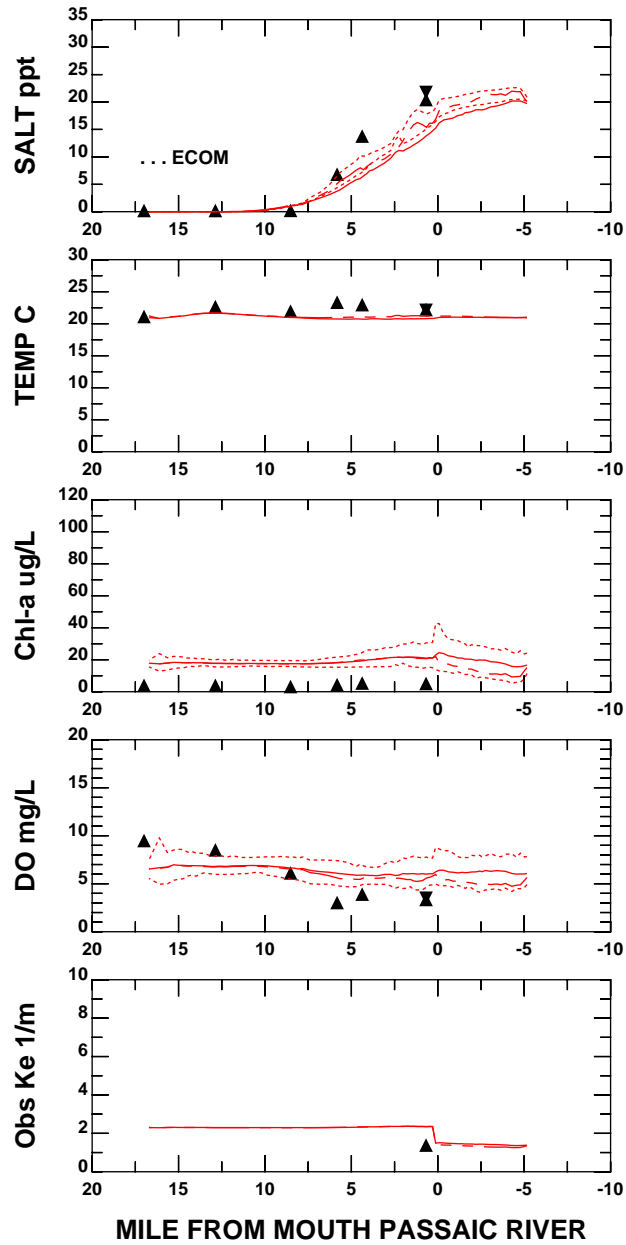
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0708



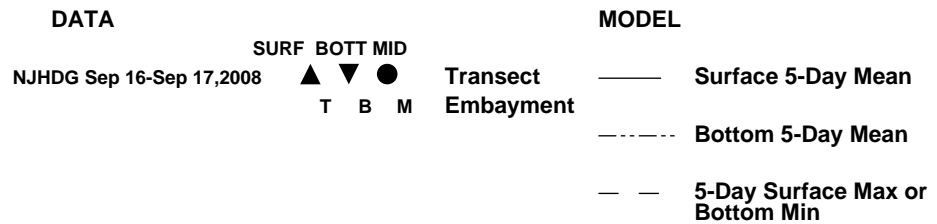
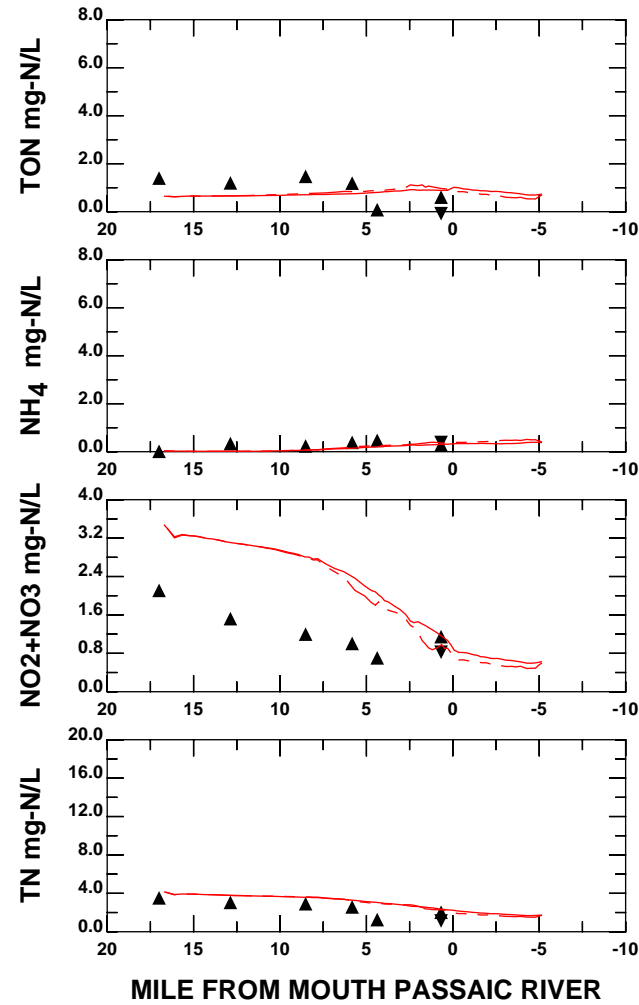
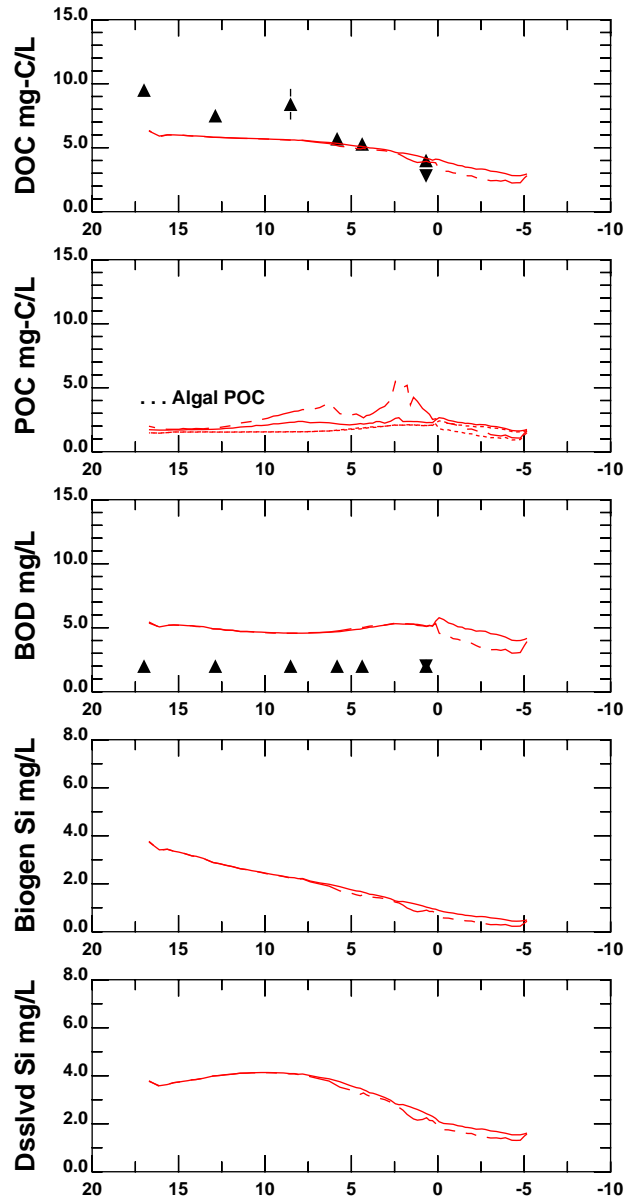
MILE FROM MOUTH PASSAIC RIVER



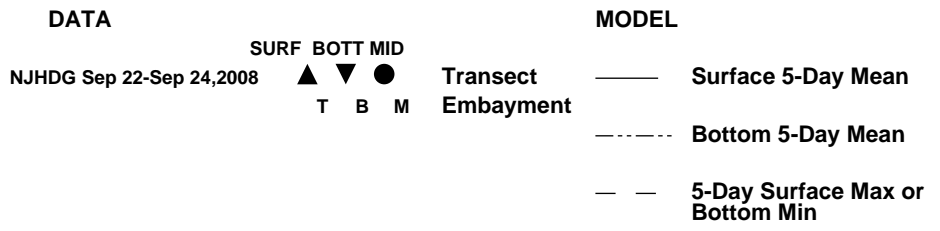
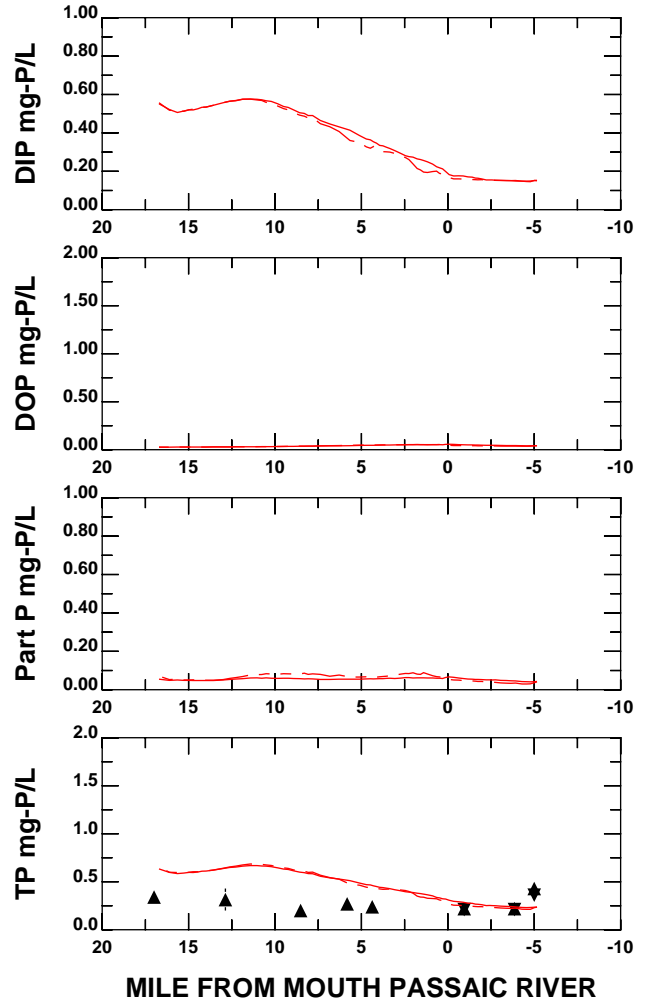
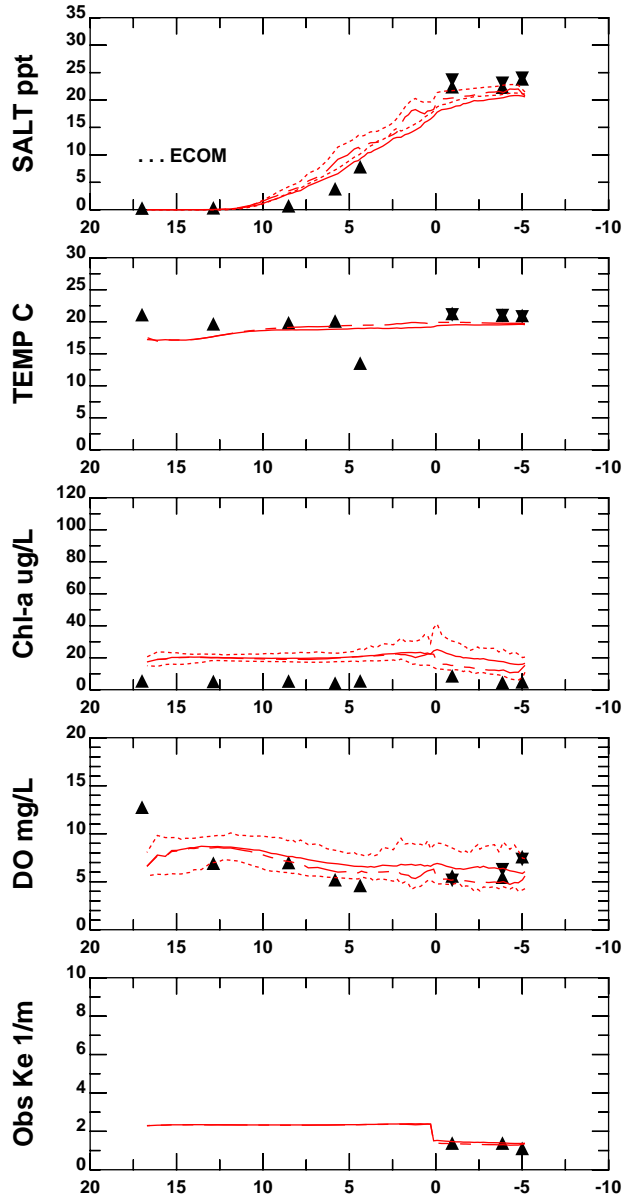


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708

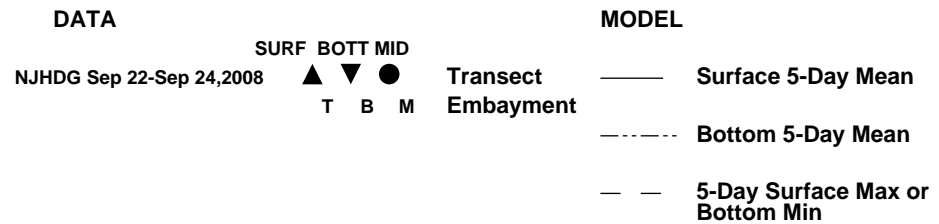
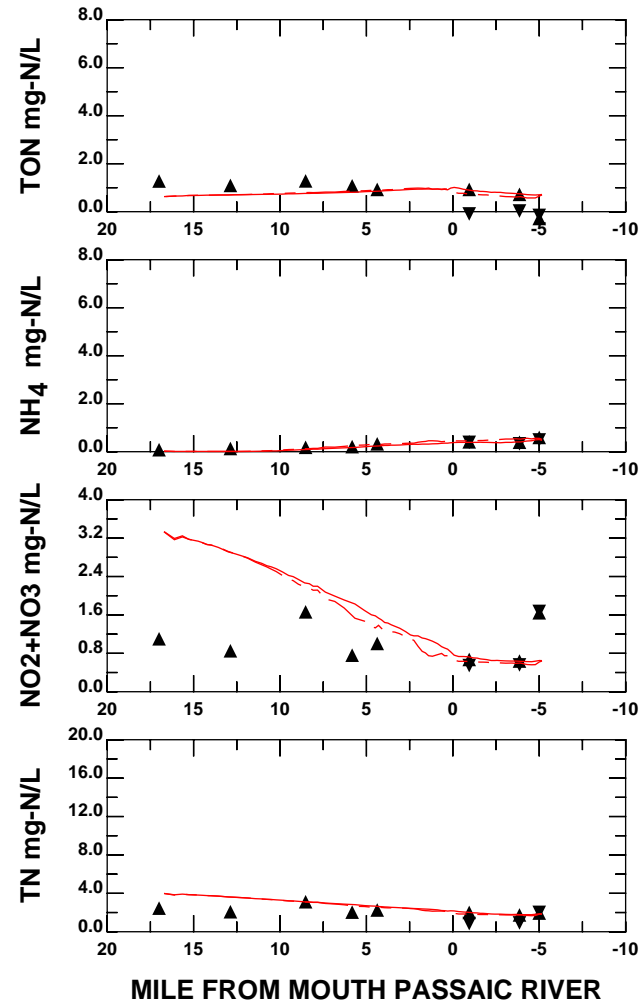
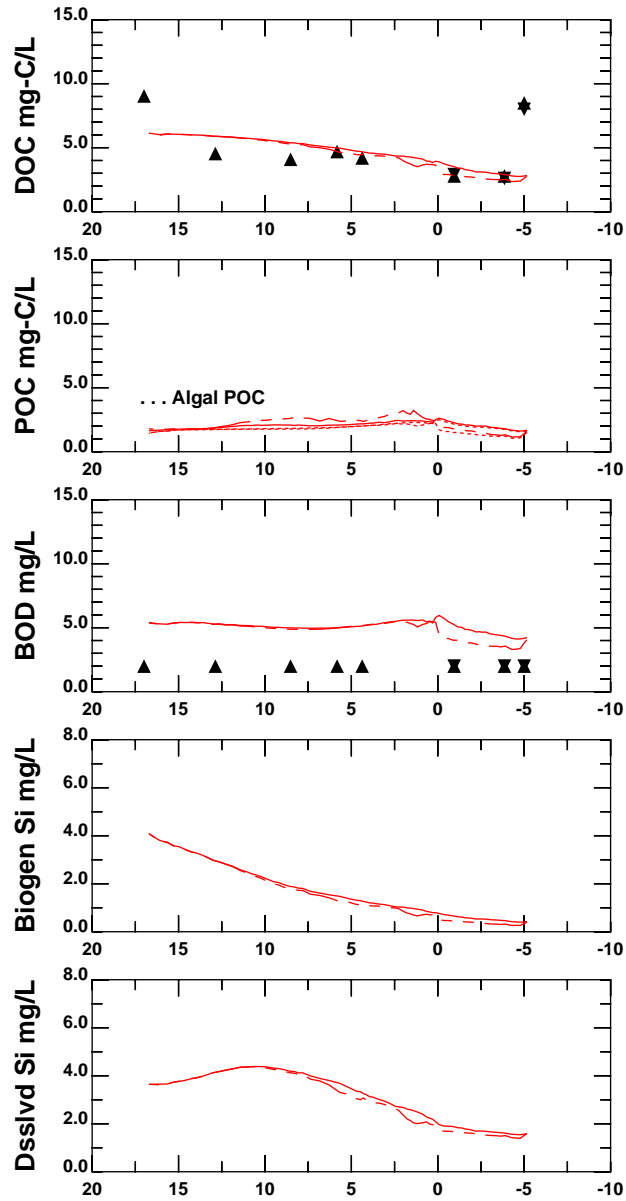




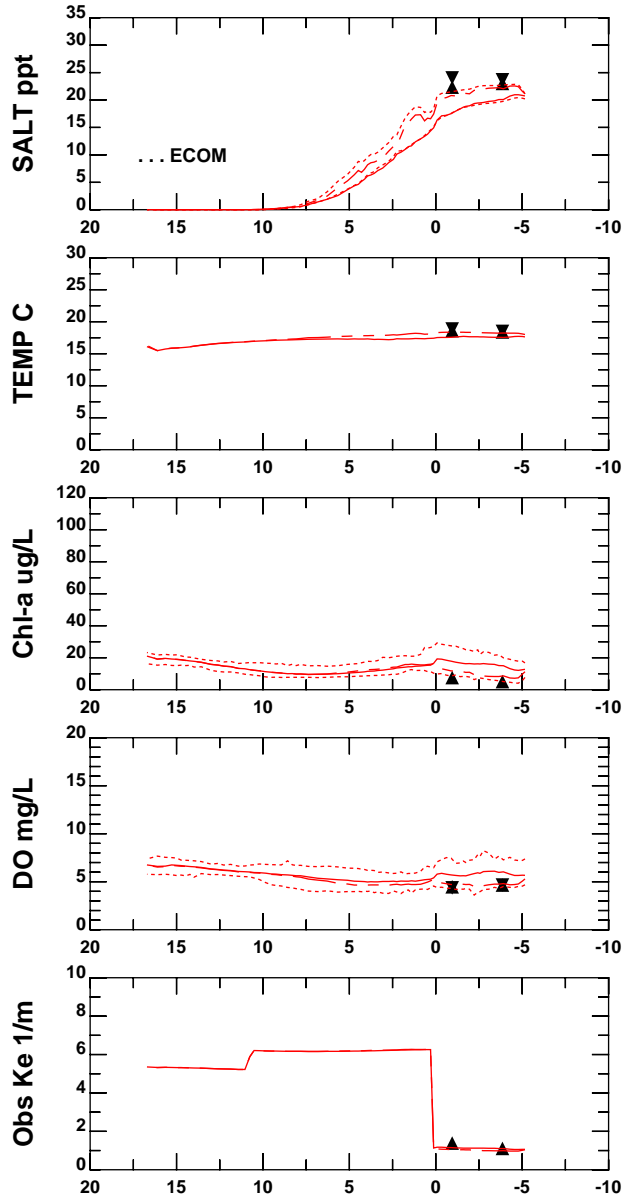
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



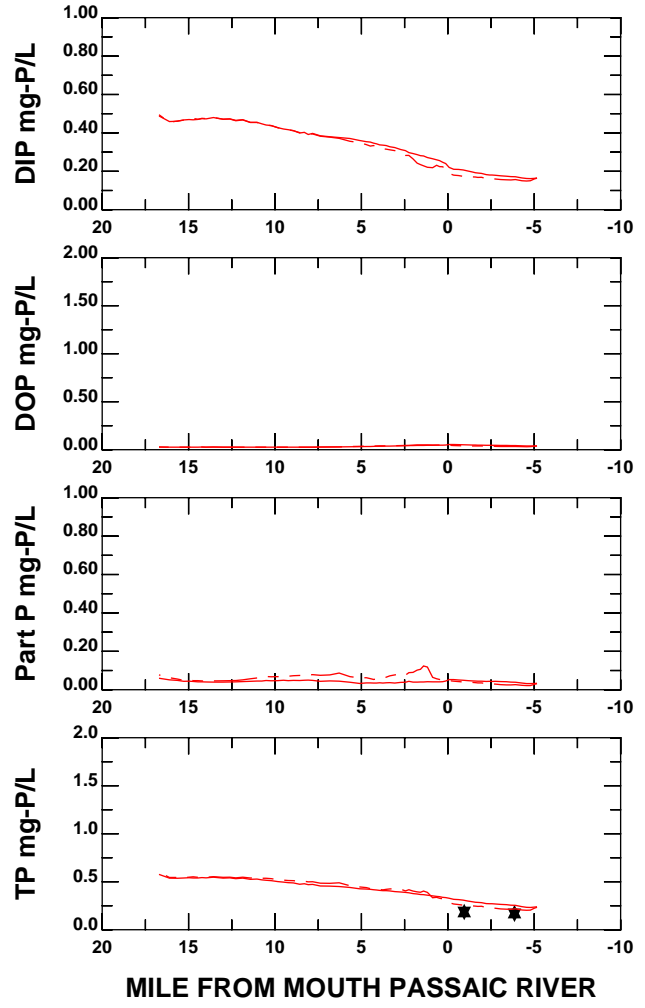
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0708



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0809

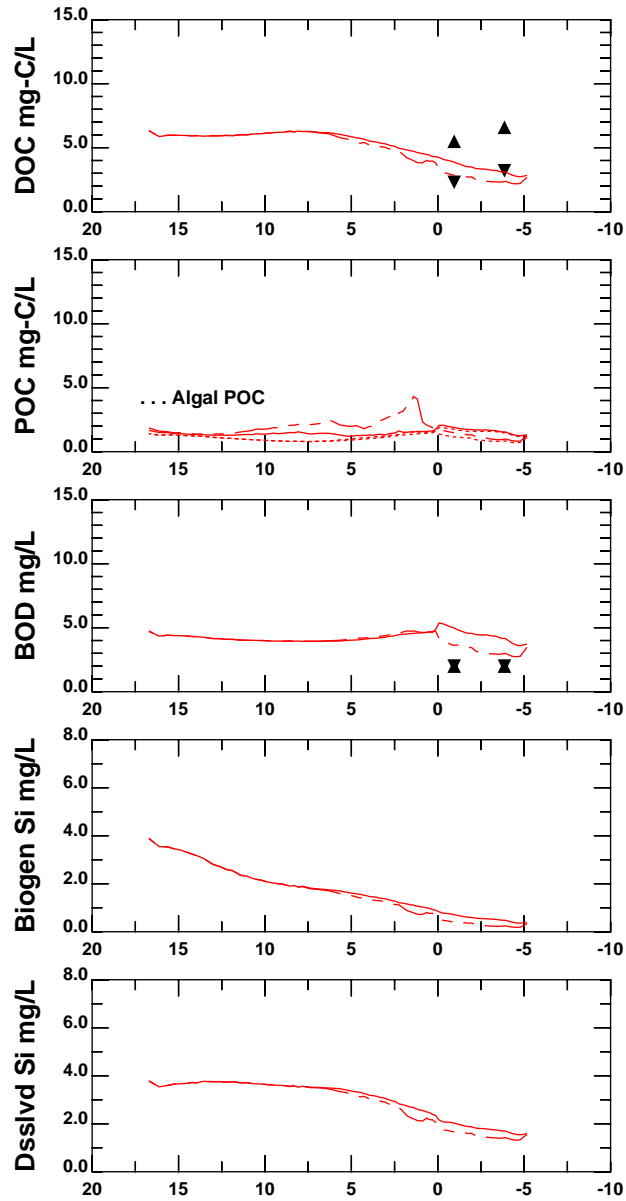


DATA  
NJHDG Oct 06,2008

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

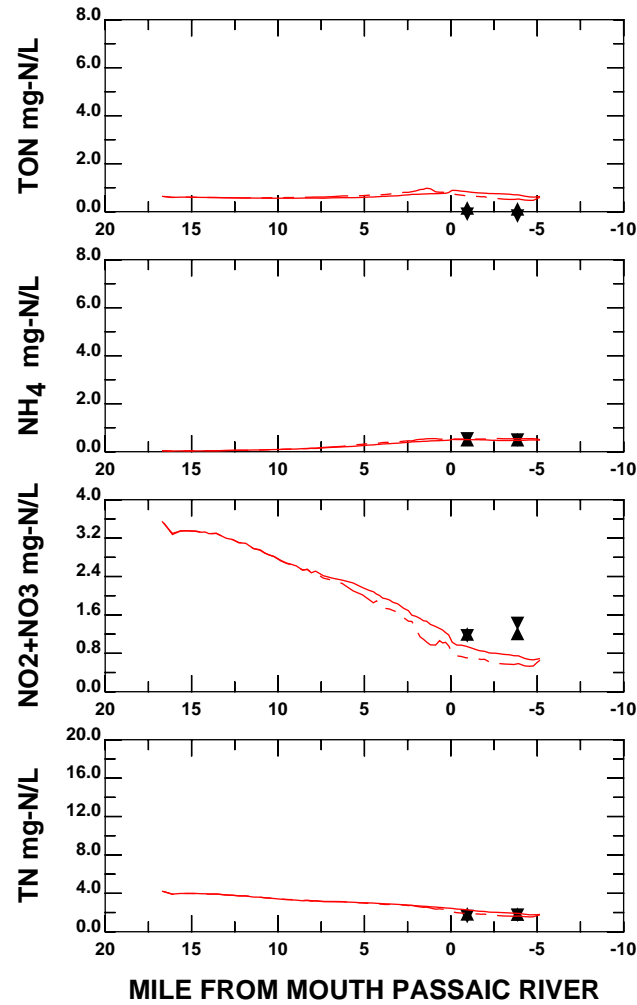
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Oct 06,2008

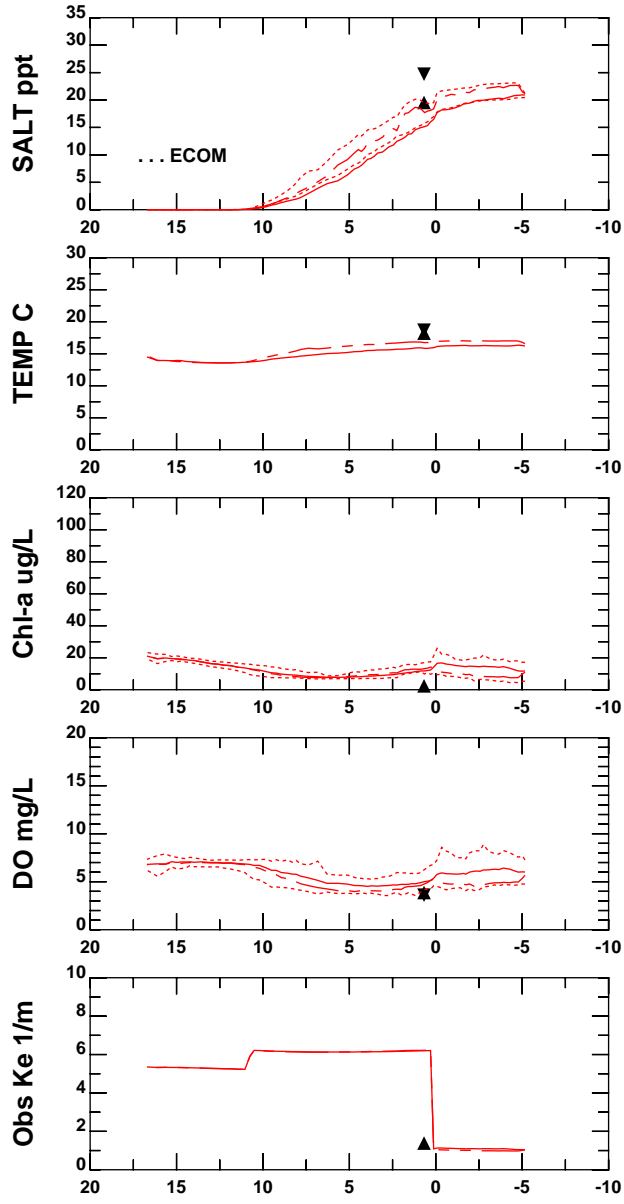
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

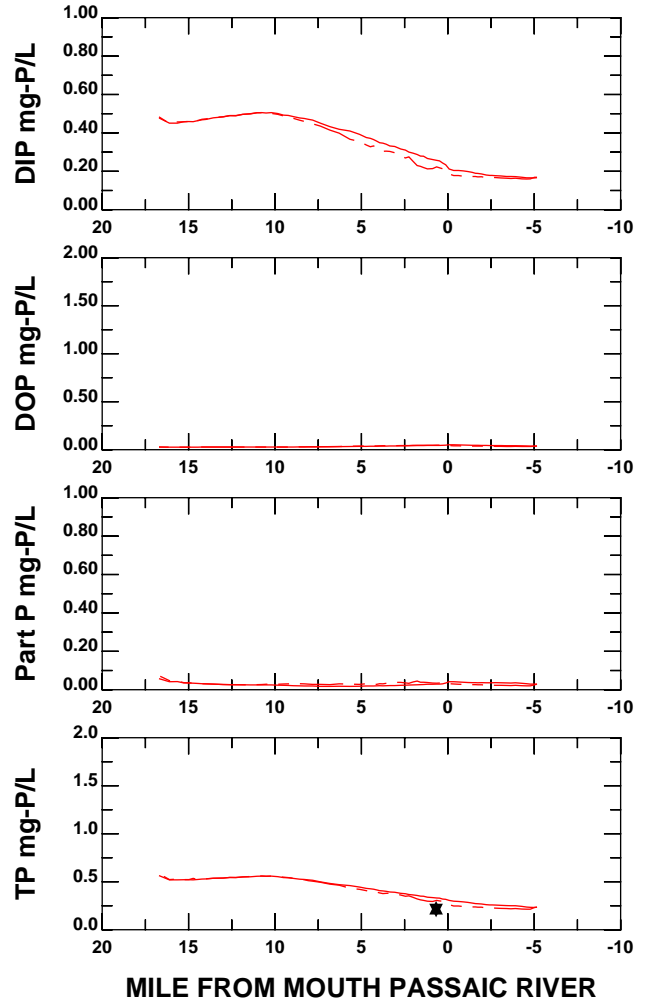
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0809

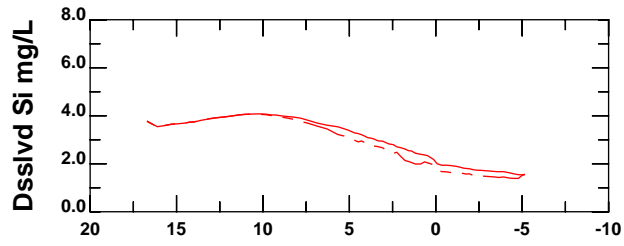
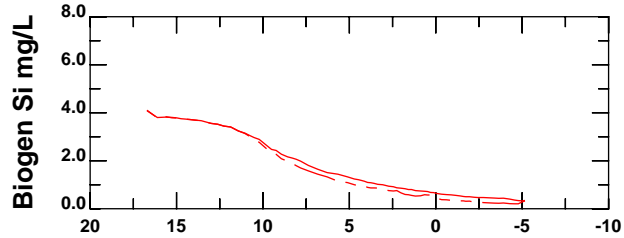
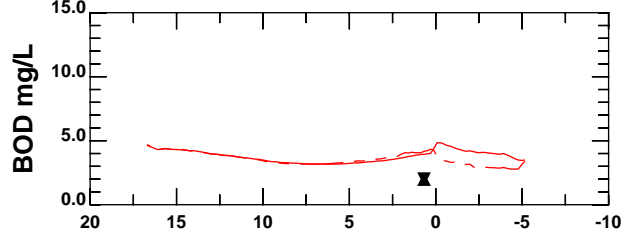
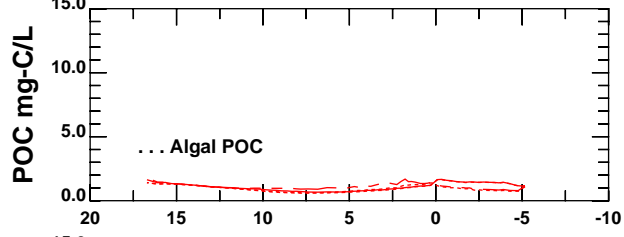
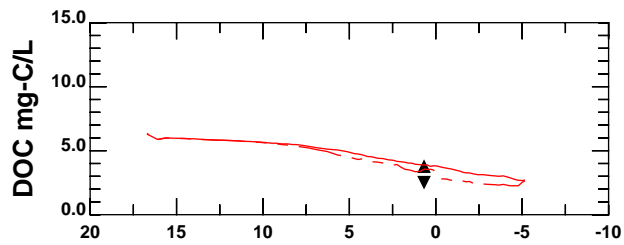


DATA  
NJHDG Oct 08,2008

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

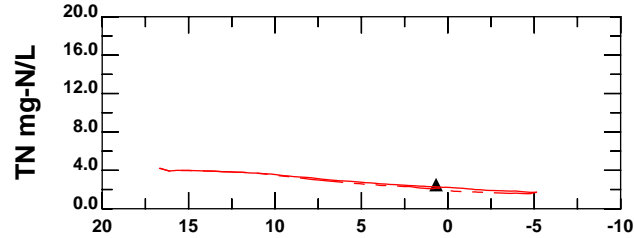
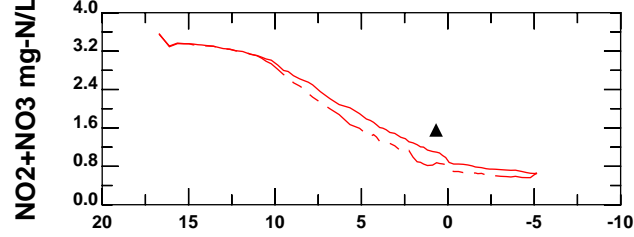
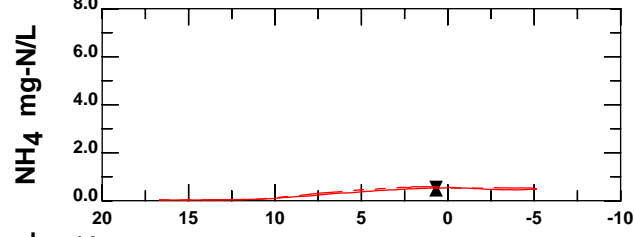
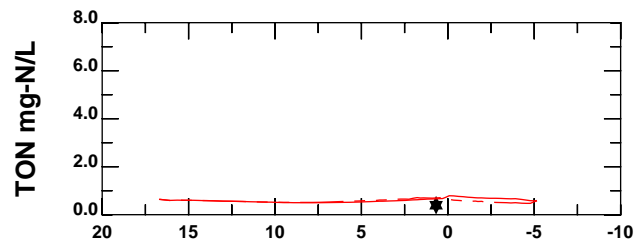
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Oct 08,2008

MODEL

SURF BOTT MID

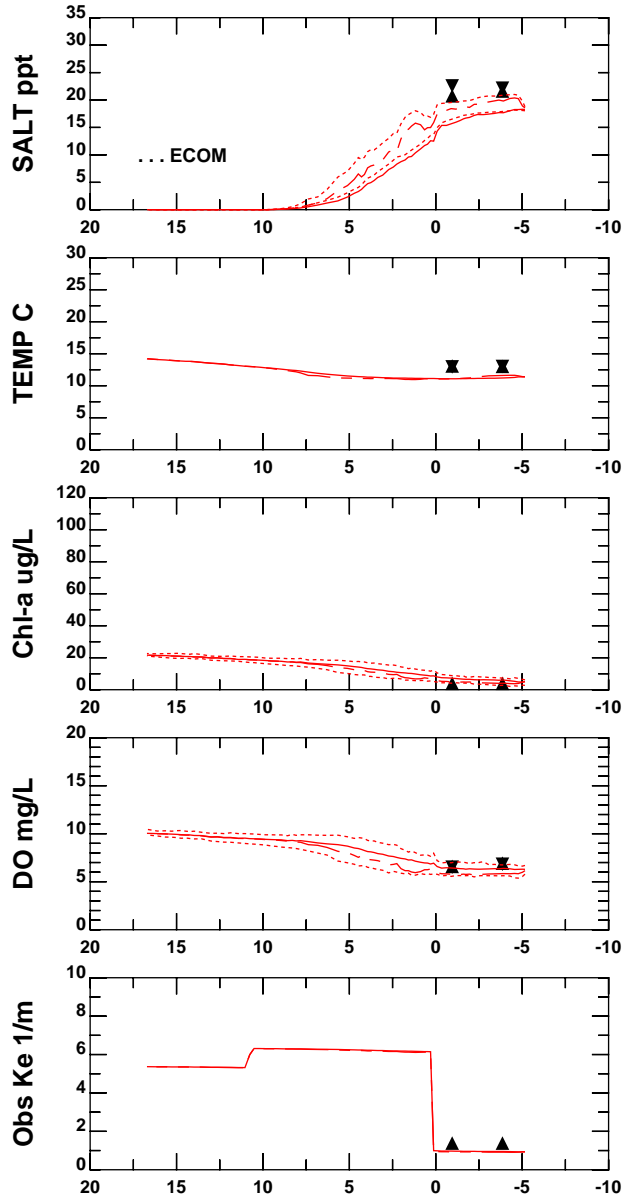
▲ ▼ ● Transect

T B M Embayment

— Surface 5-Day Mean

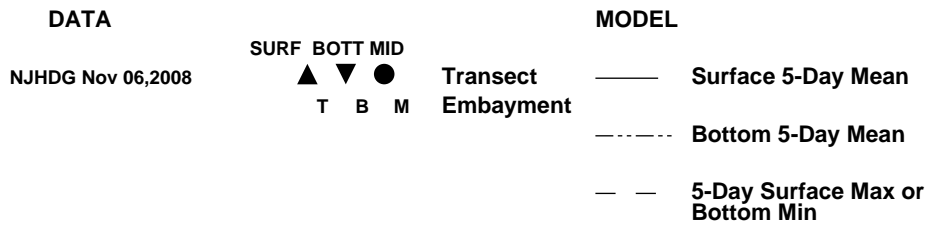
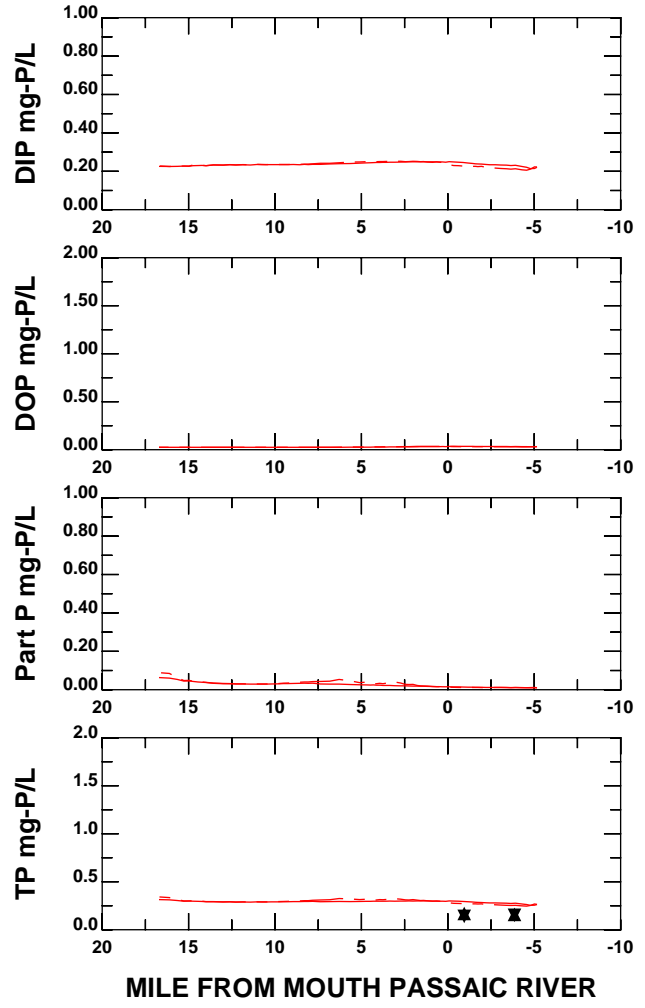
- - - Bottom 5-Day Mean

- - 5-Day Surface Max or Bottom Min

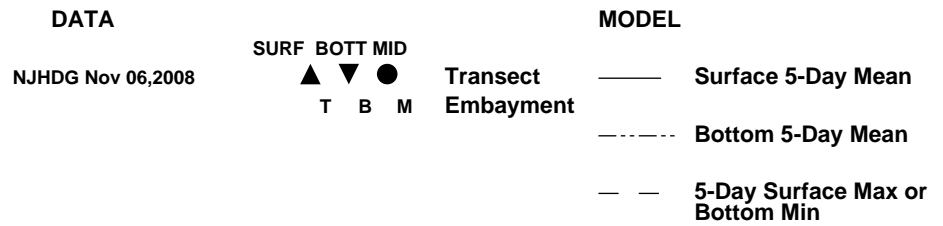
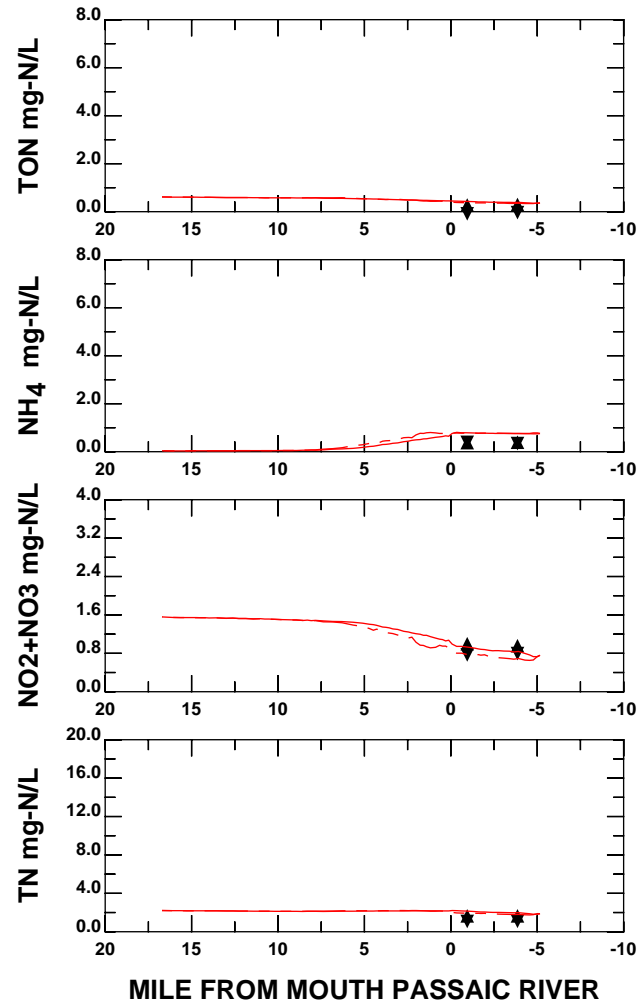
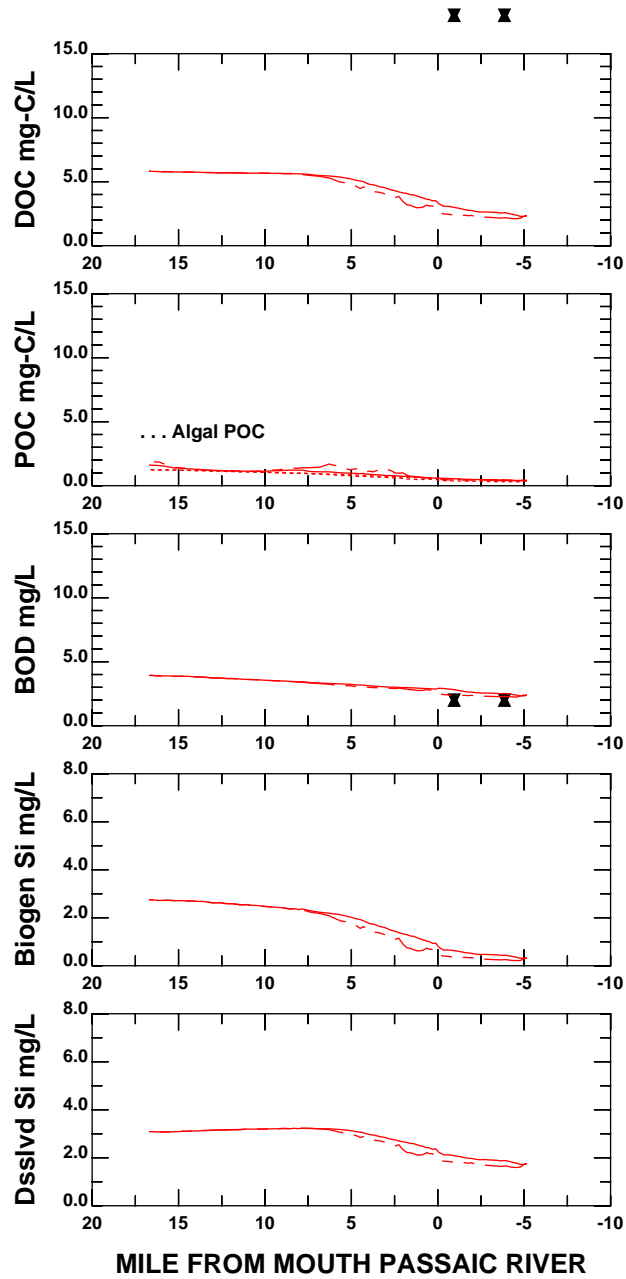


MILE FROM MOUTH PASSAIC RIVER

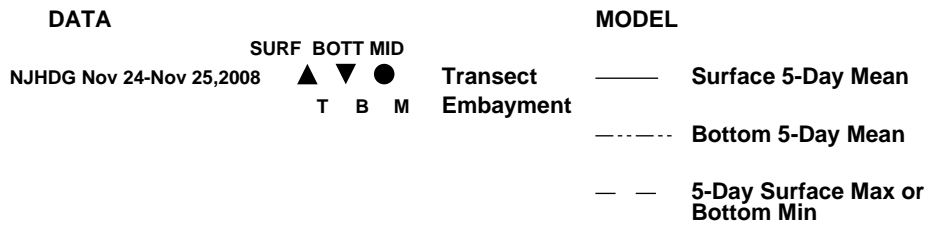
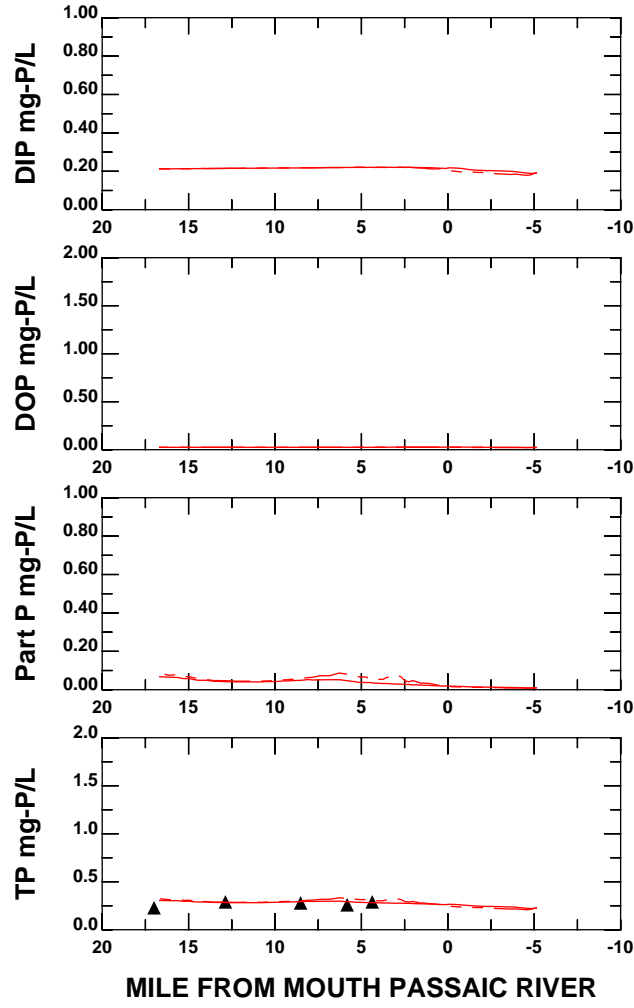
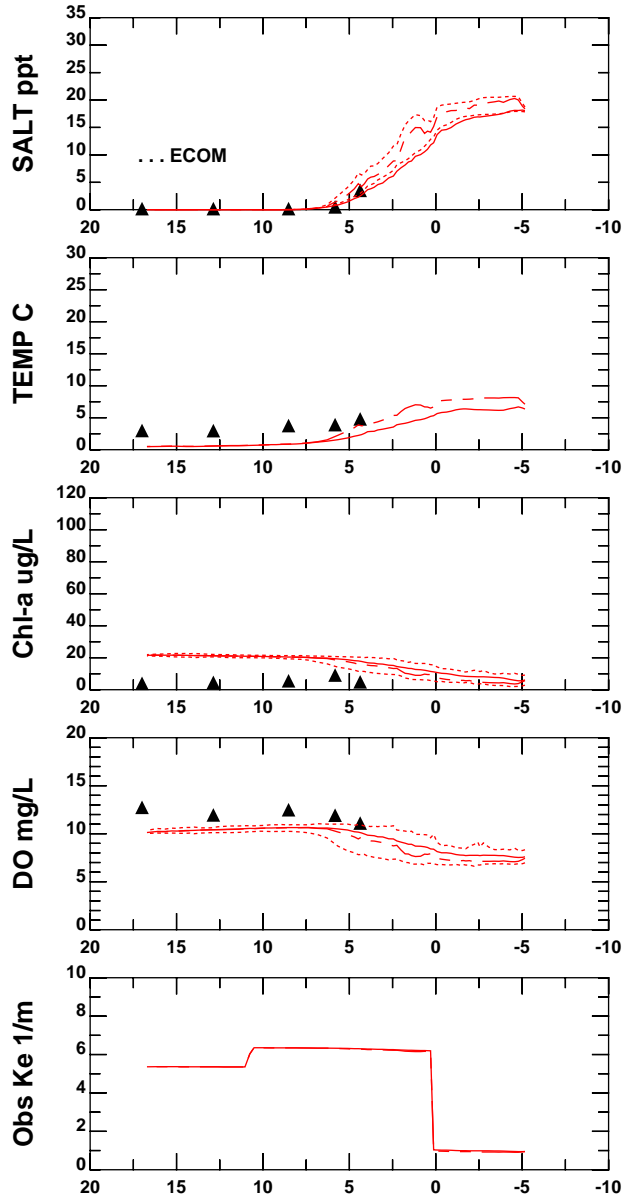
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



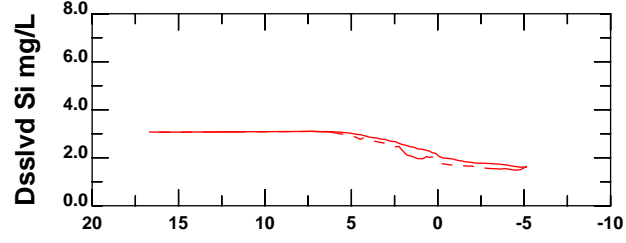
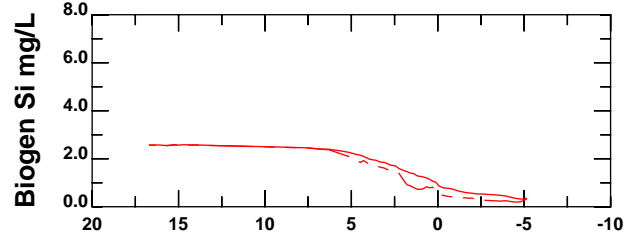
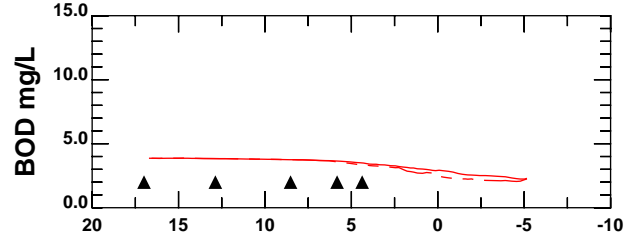
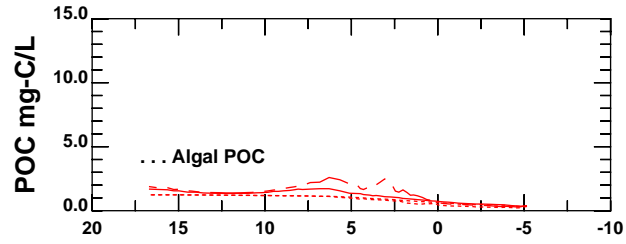
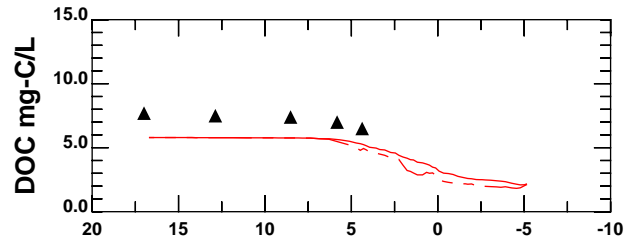




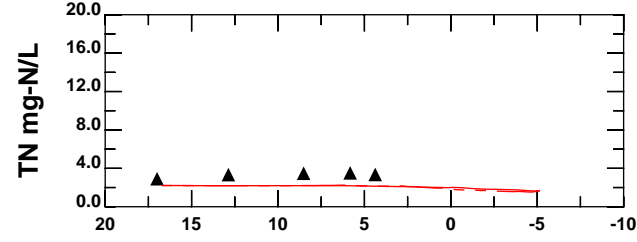
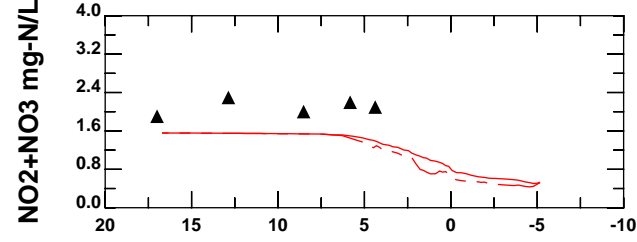
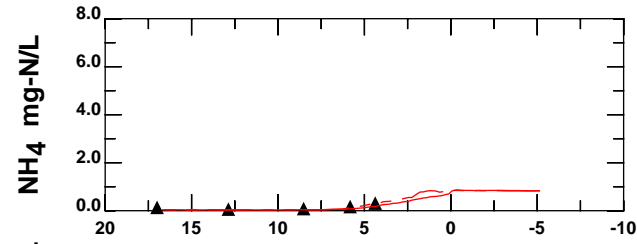
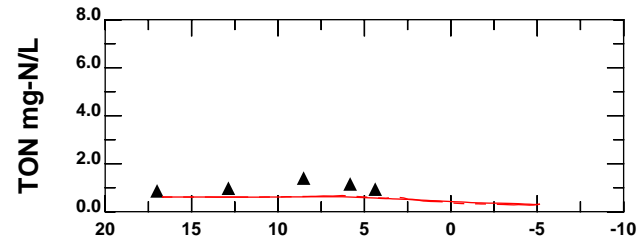
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



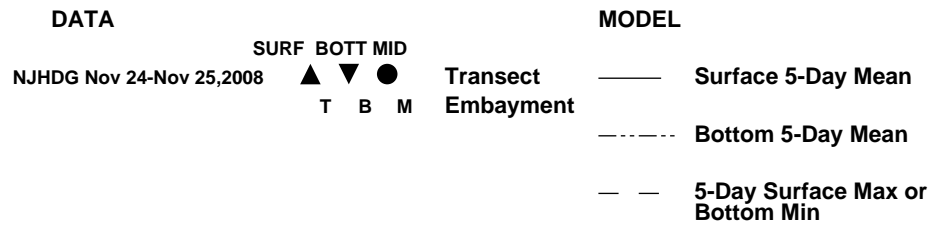
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

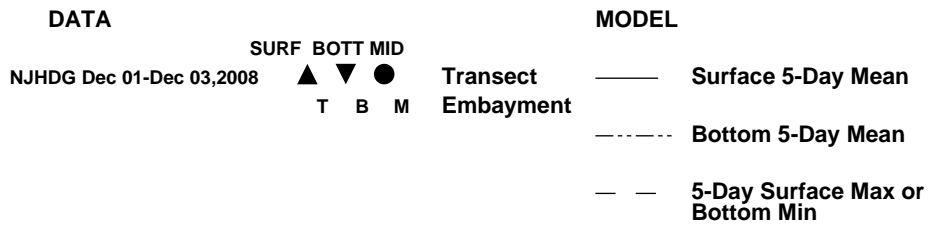
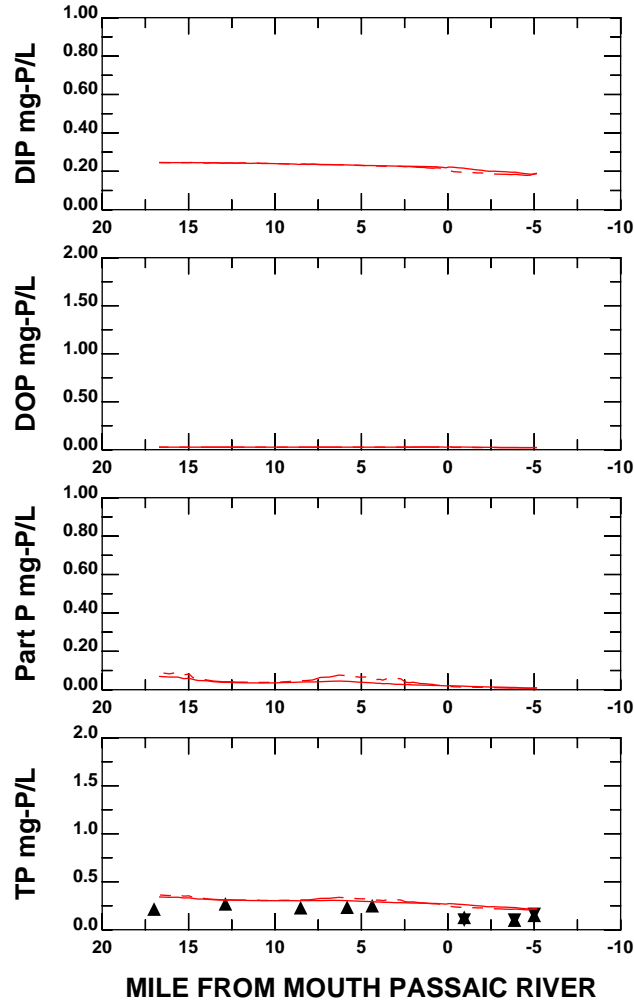
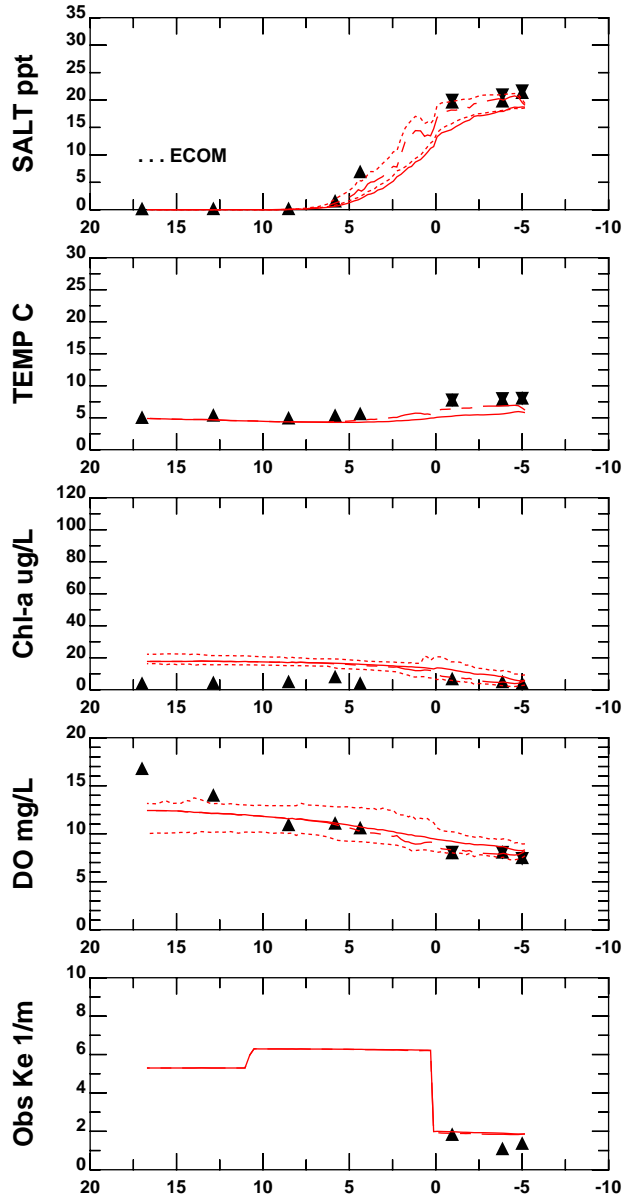


MILE FROM MOUTH PASSAIC RIVER

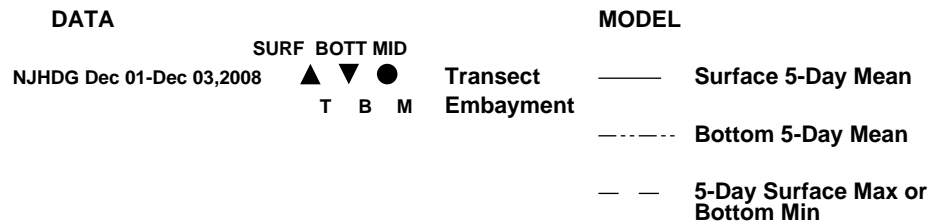
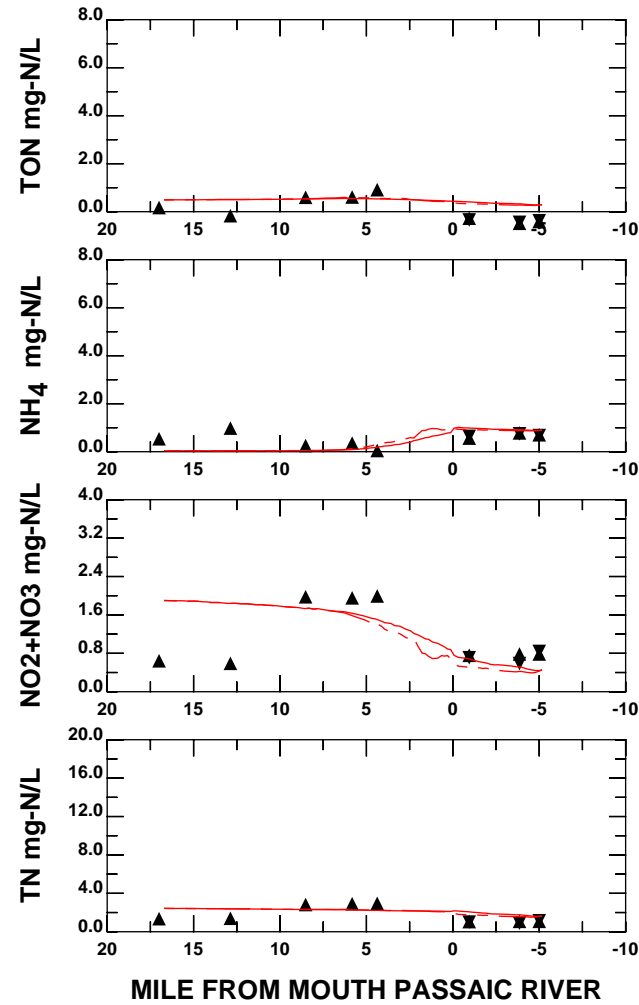
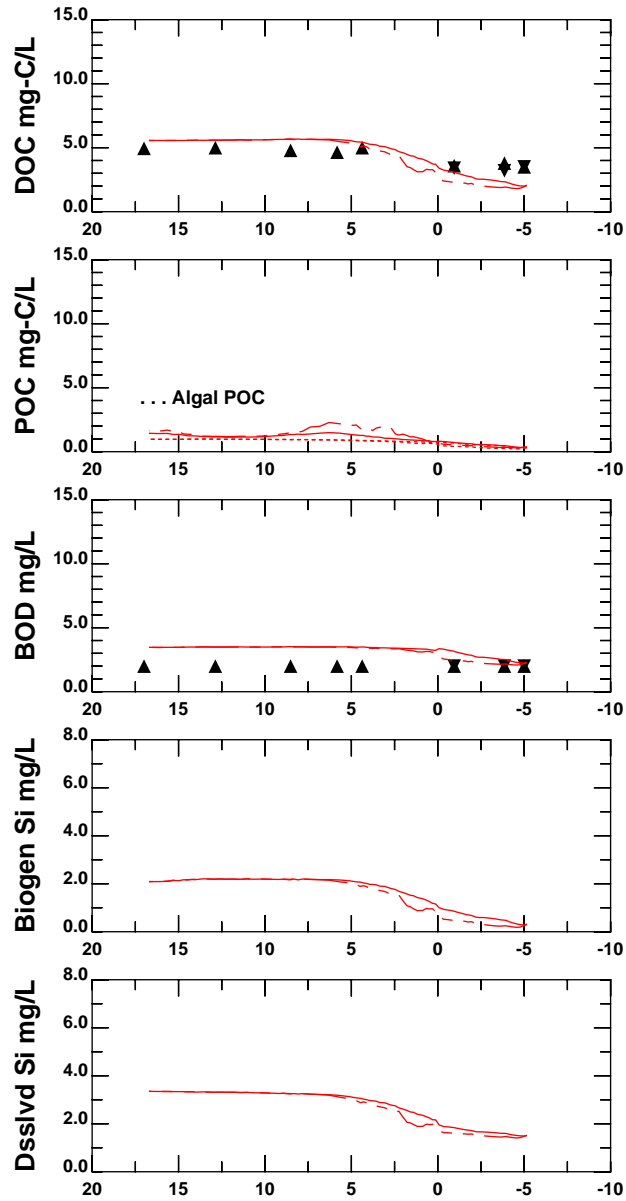


## PASSAIC RIVER AND NEWARK BAY

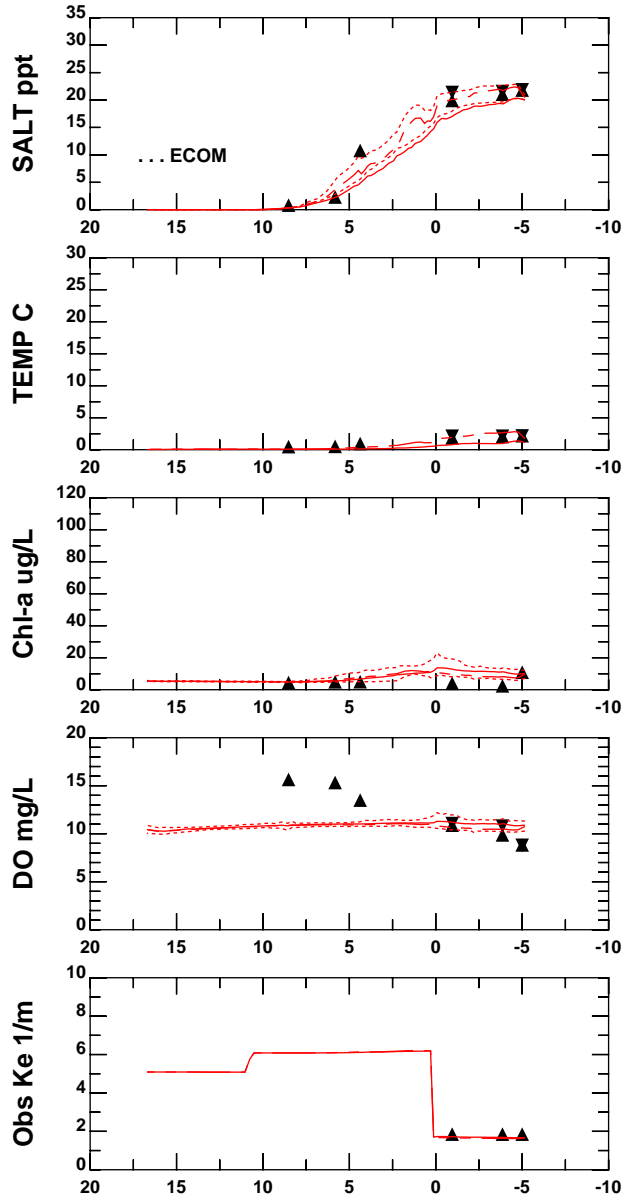
RED=model:Collapsed Grid 0809



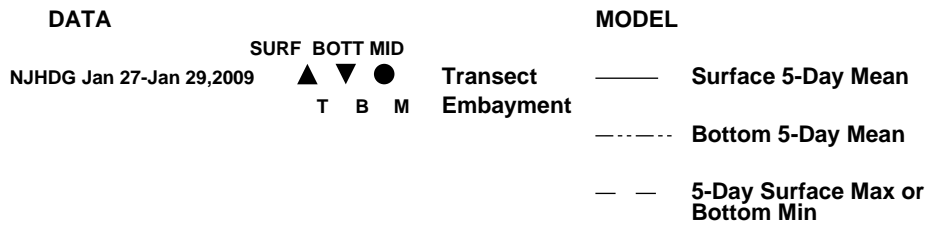
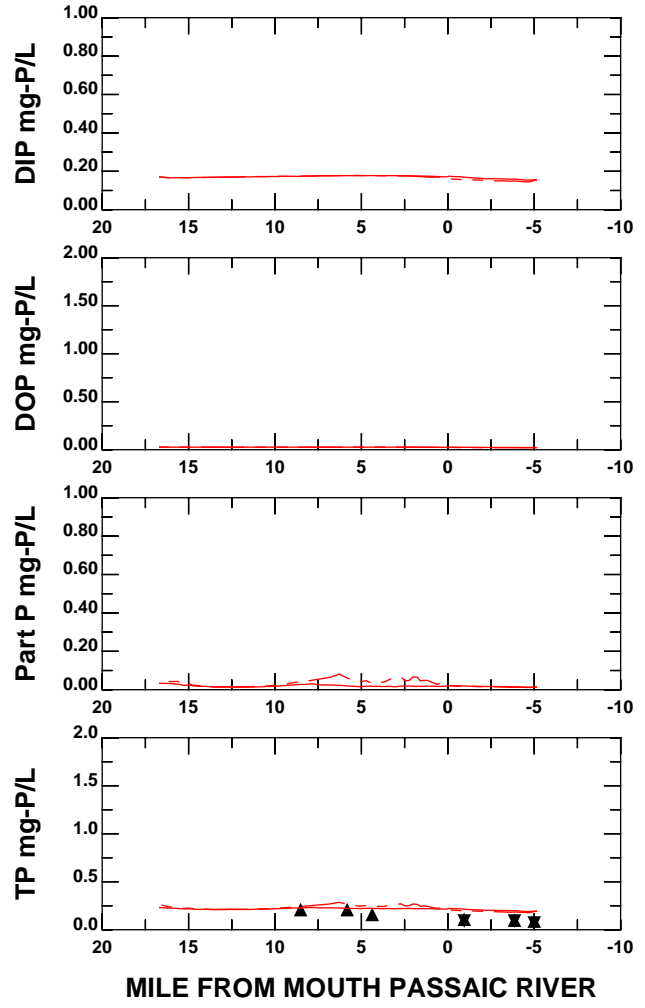
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

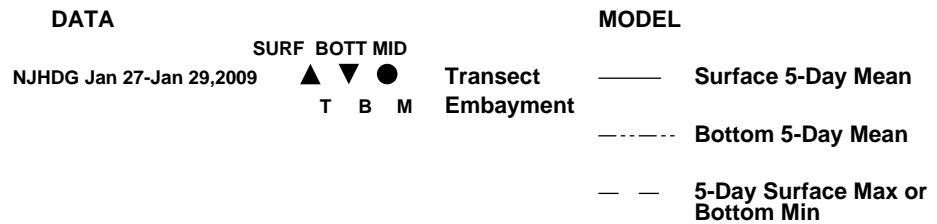
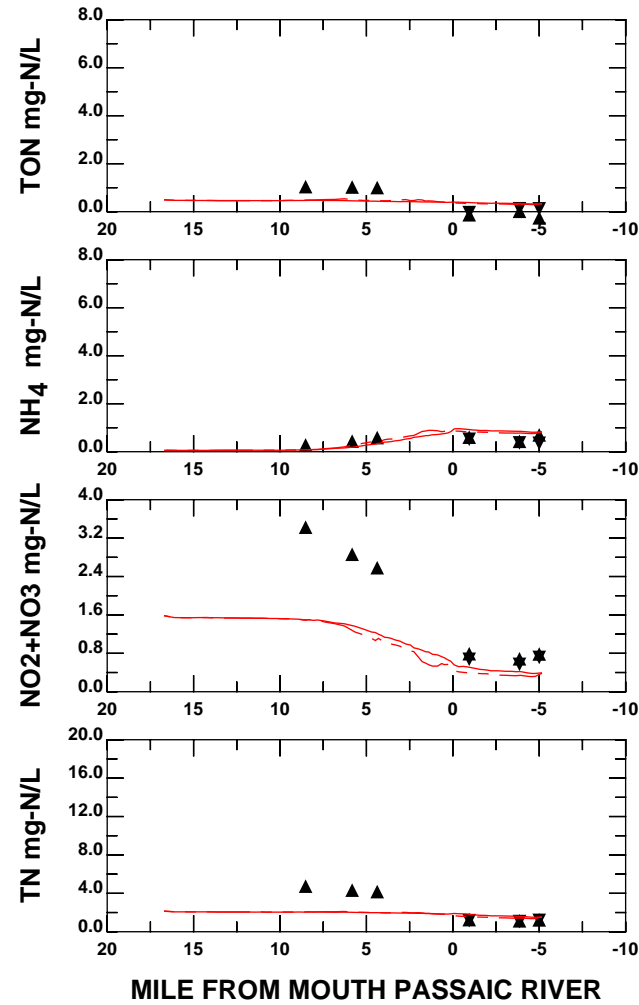
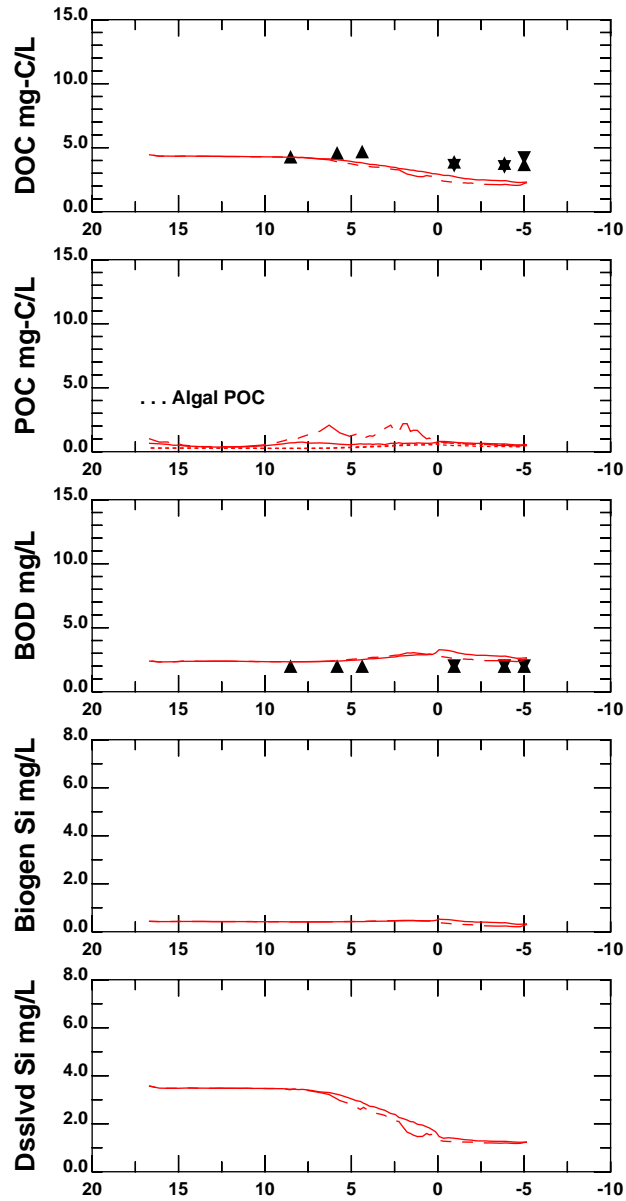


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

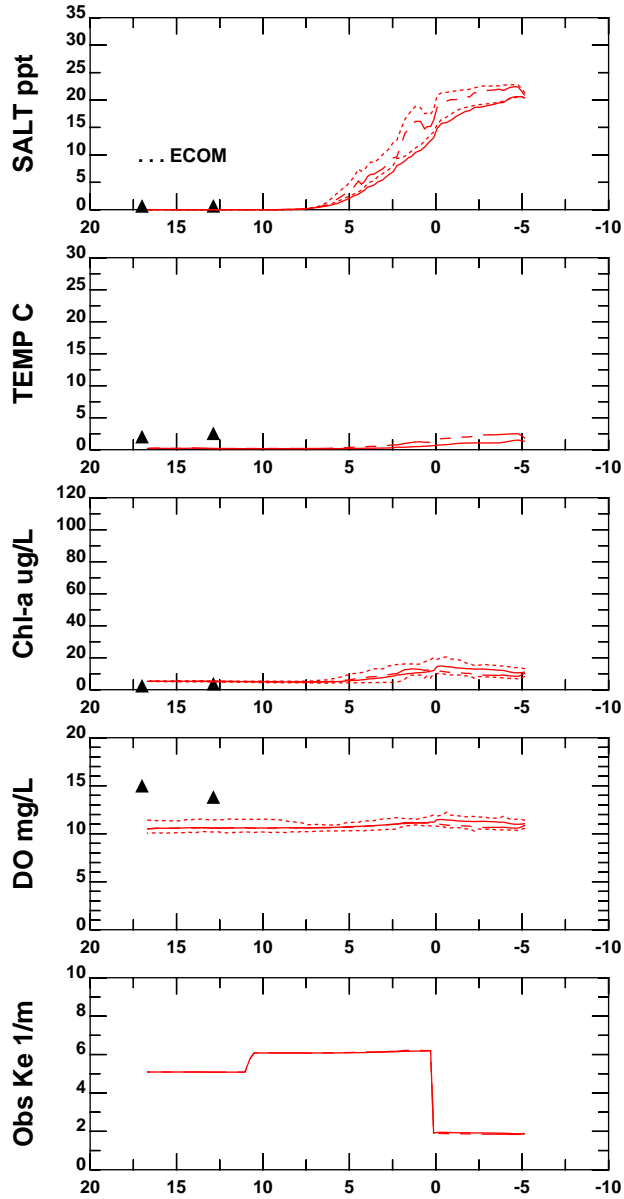


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



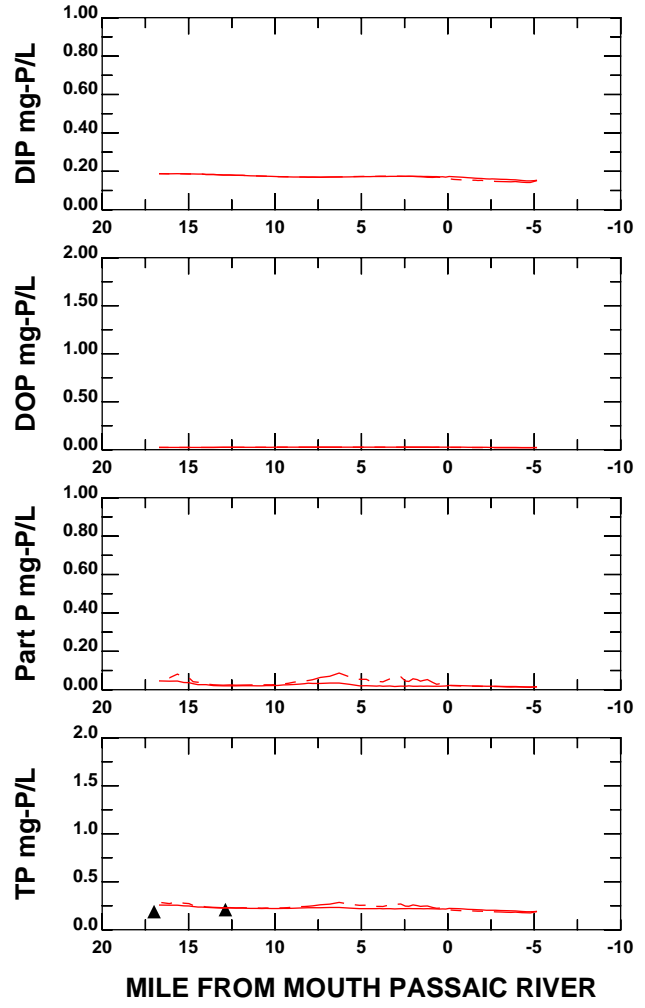


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

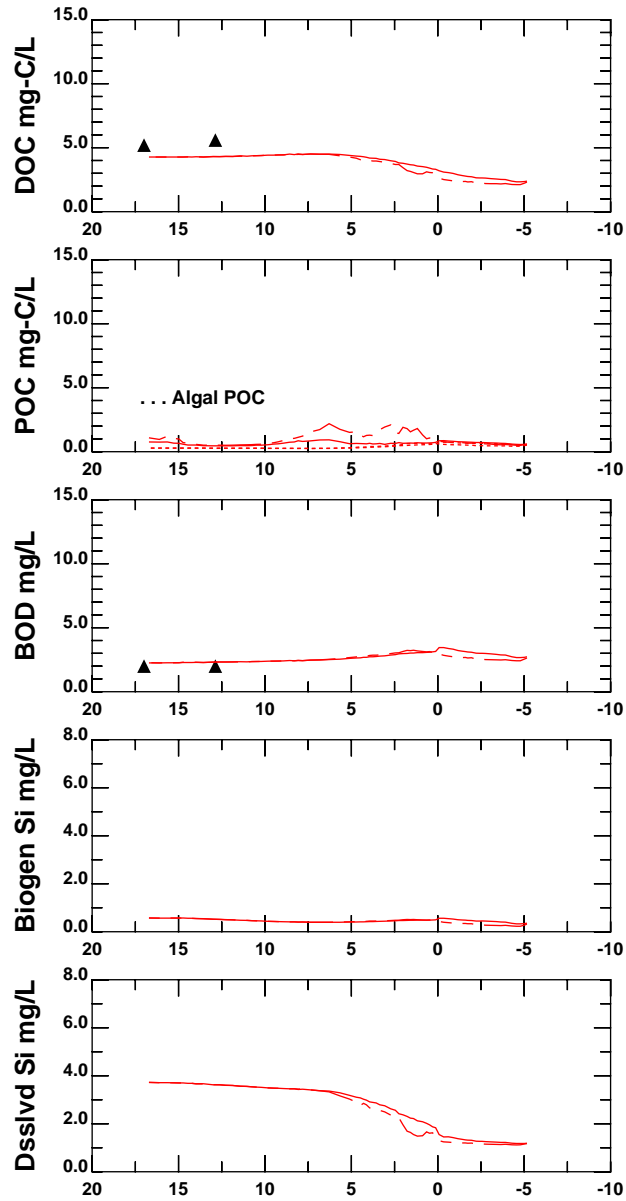
DATA  
 NJHDG Feb 03,2009

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

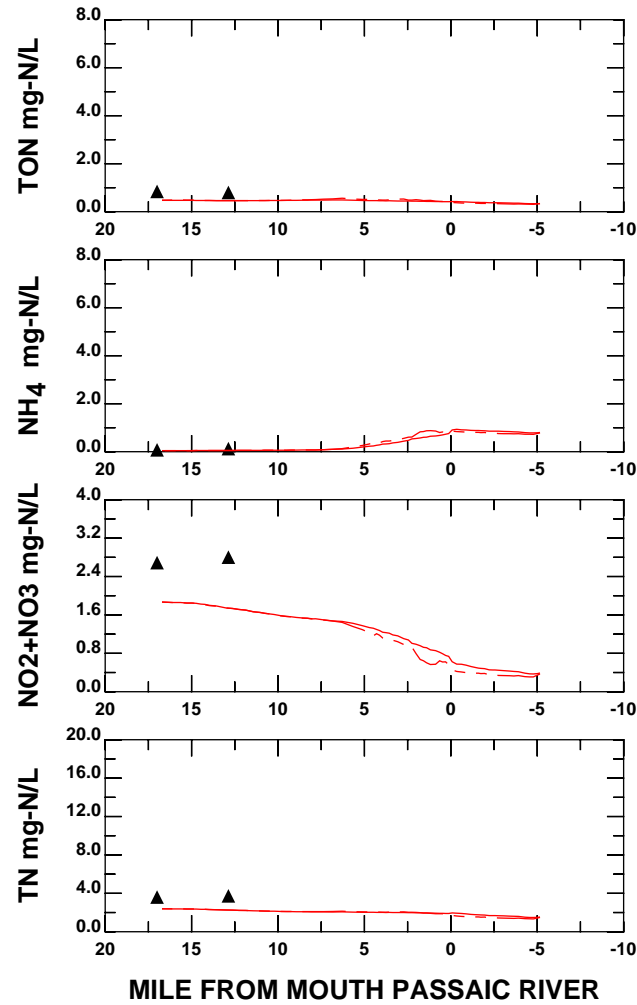




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809



#### DATA

NJHDG Feb 03,2009

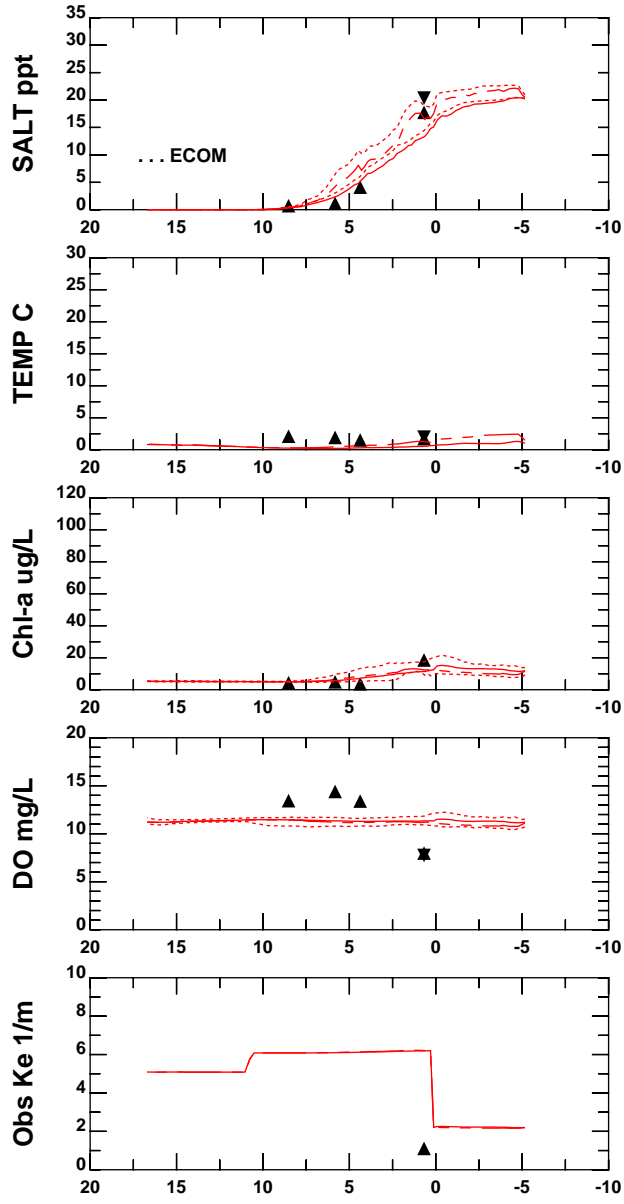
SURF BOTT MID

▲ ▼ ●  
T B M

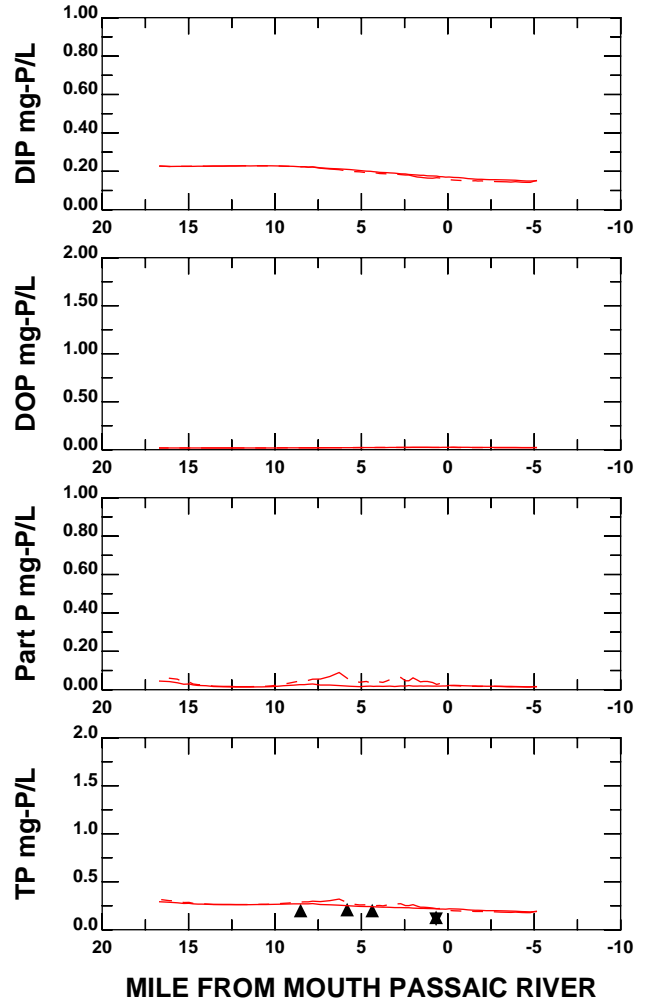
Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

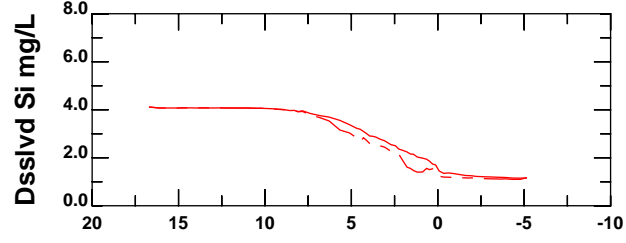
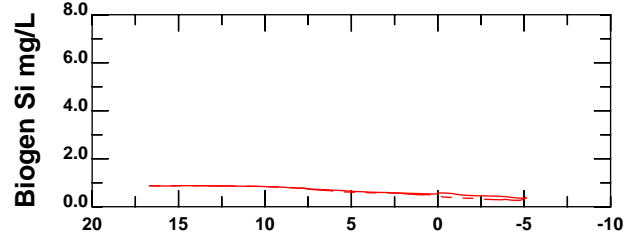
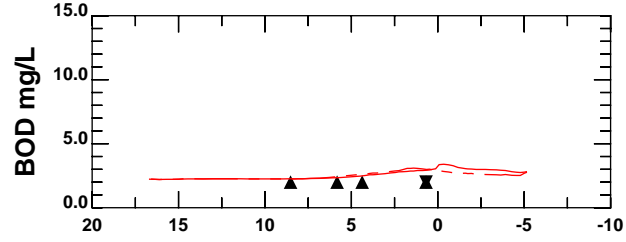
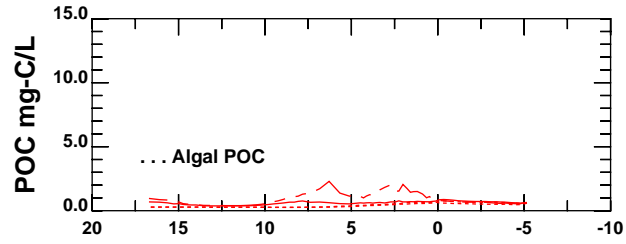
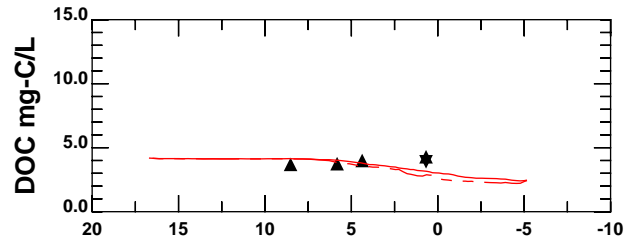


**DATA**  
 NJHDG Feb 04,2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

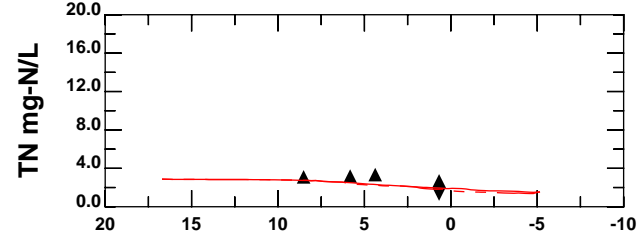
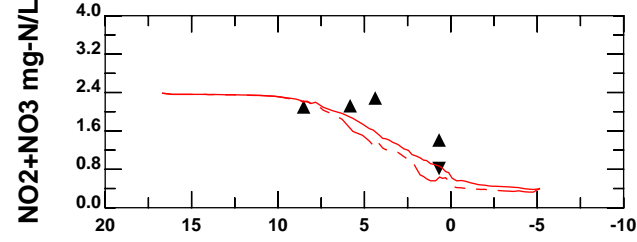
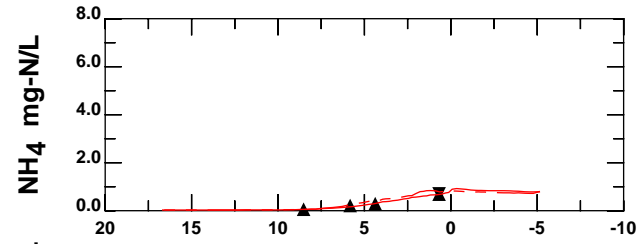
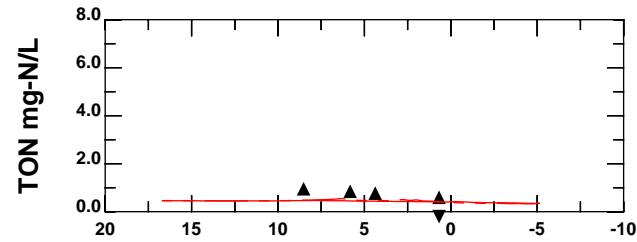
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Feb 04, 2009

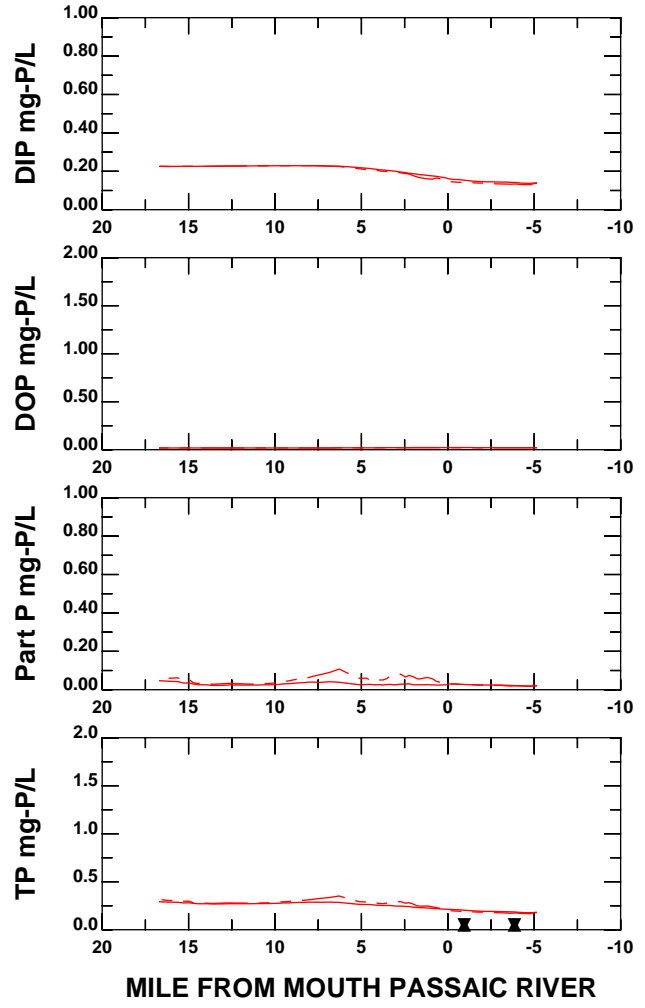
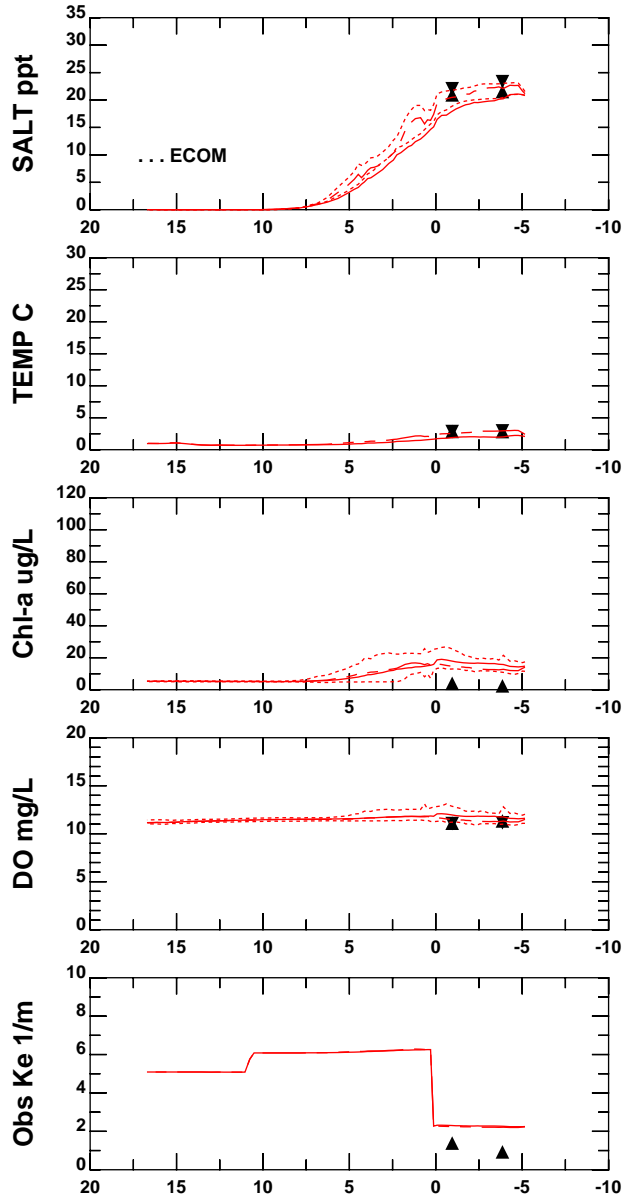
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



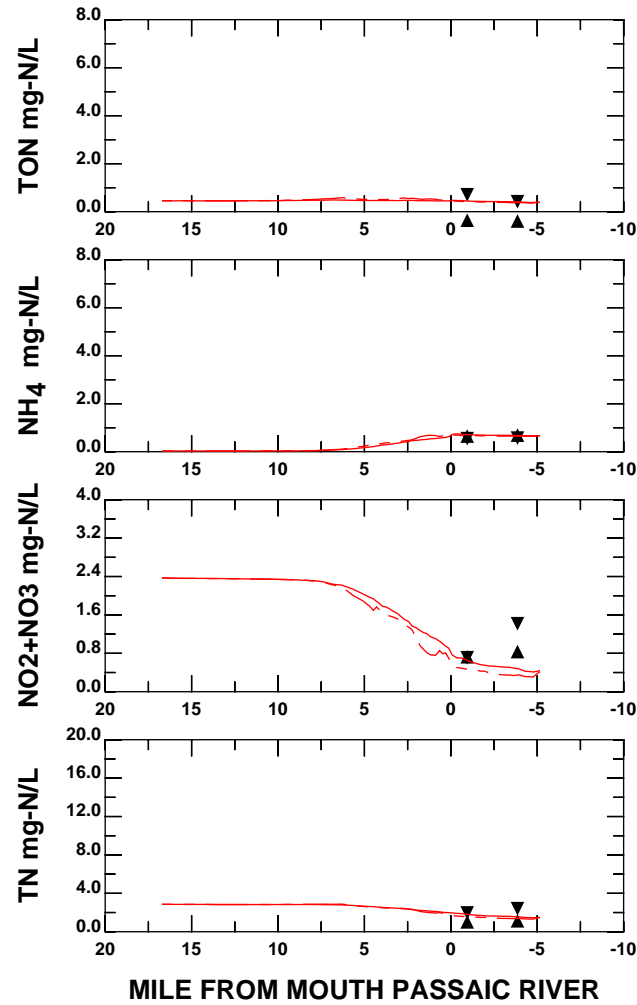
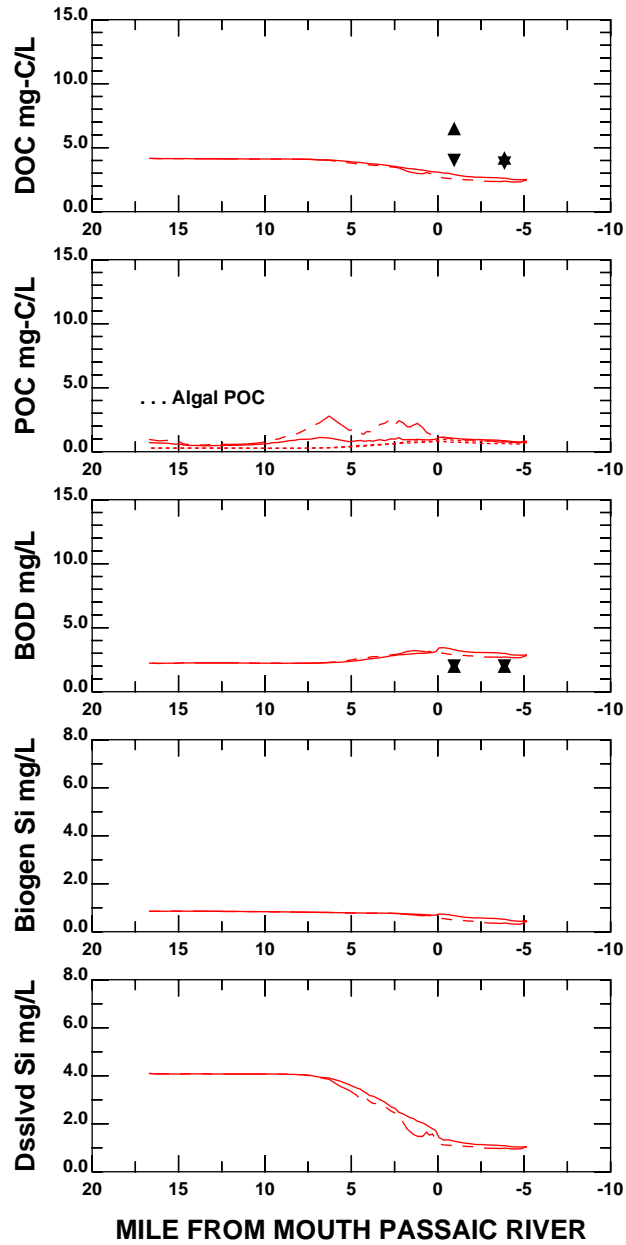
**DATA**  
NJHDG Feb 25, 2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

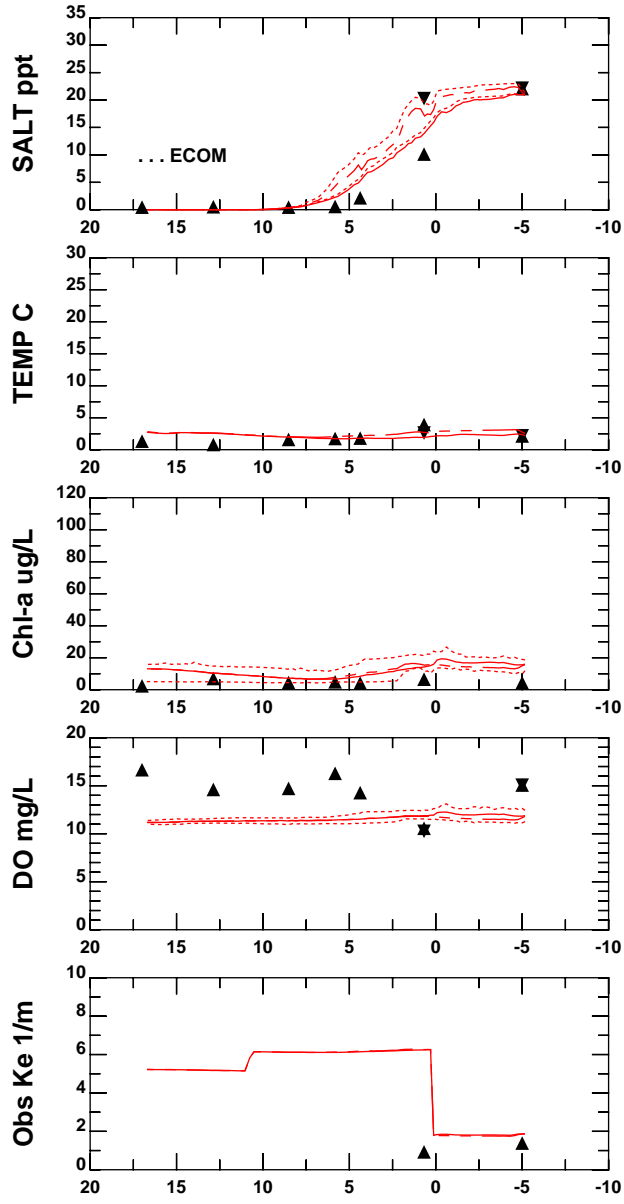


DATA  
NJHDG Feb 25, 2009

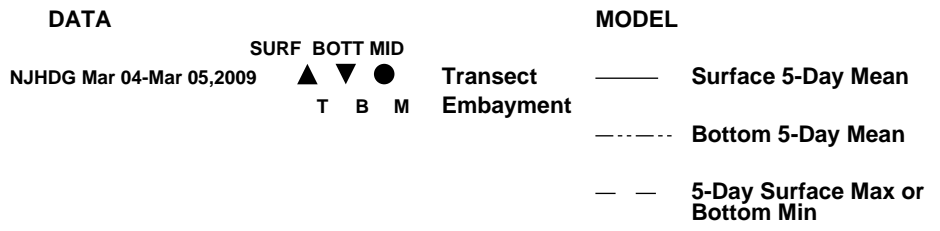
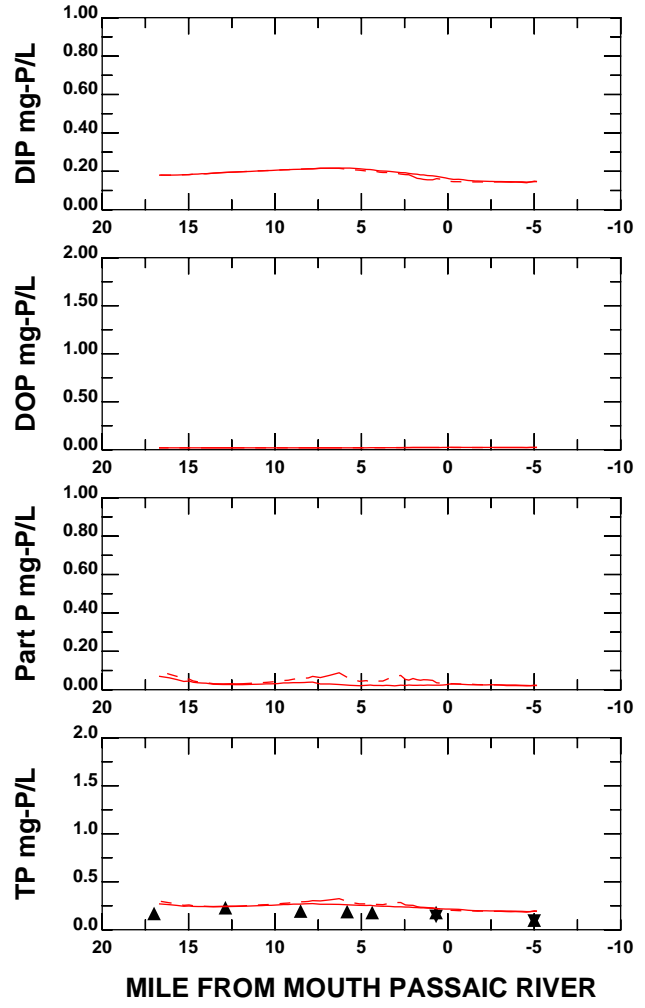
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

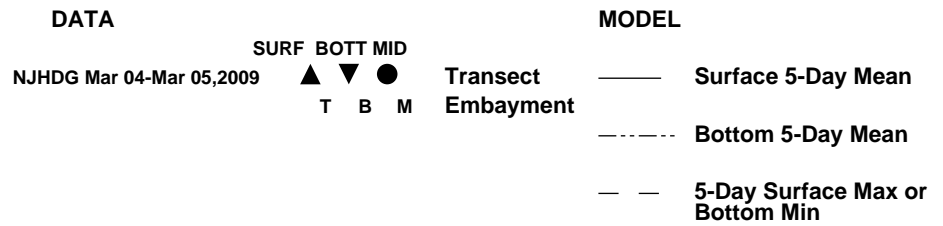
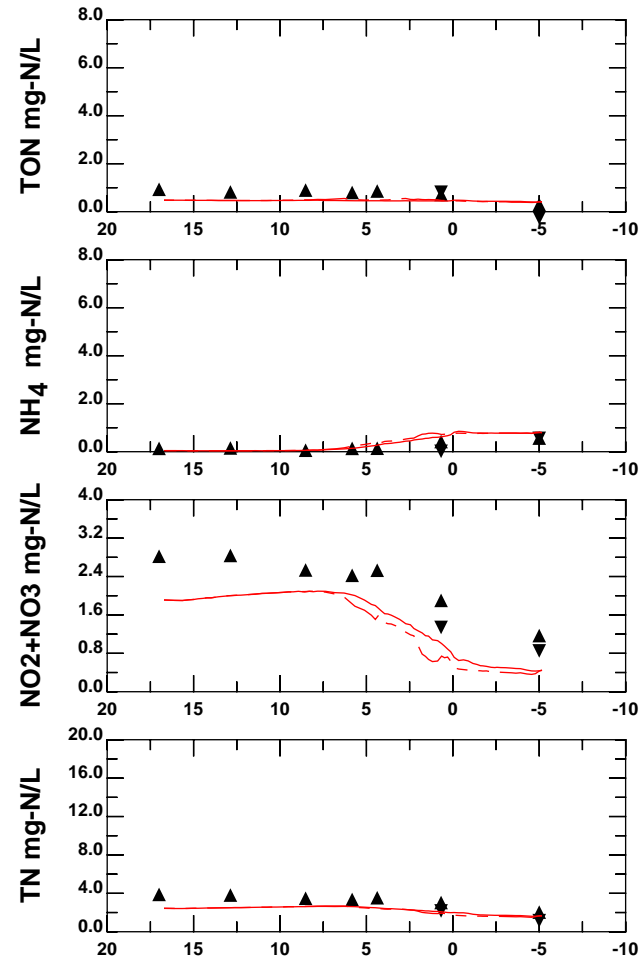
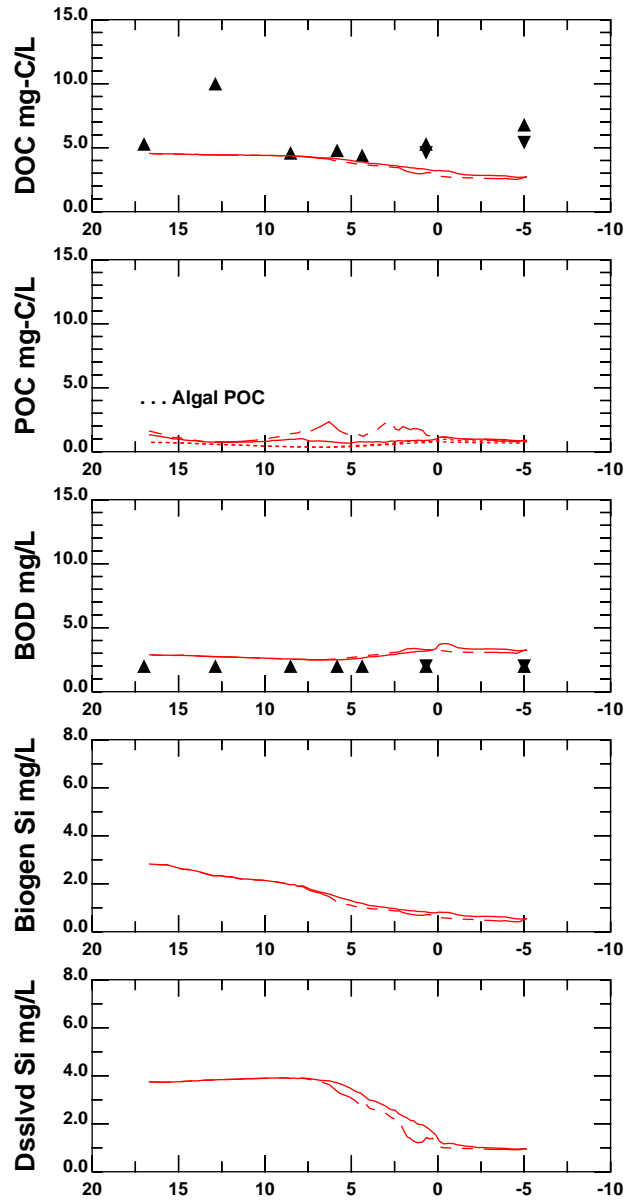
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809

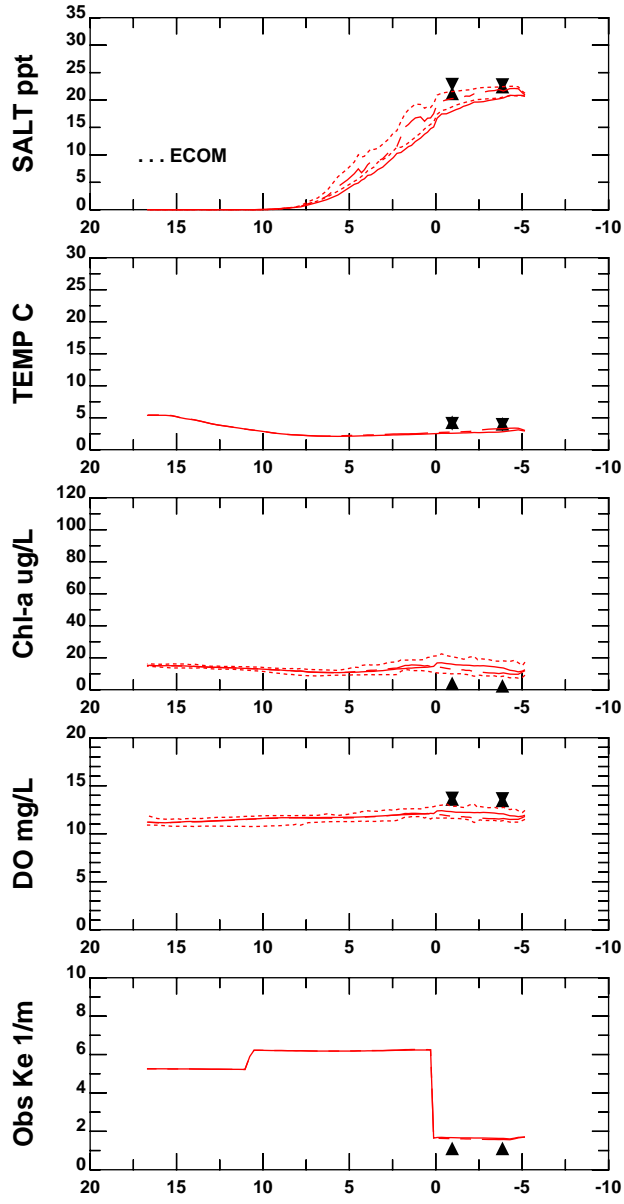


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809





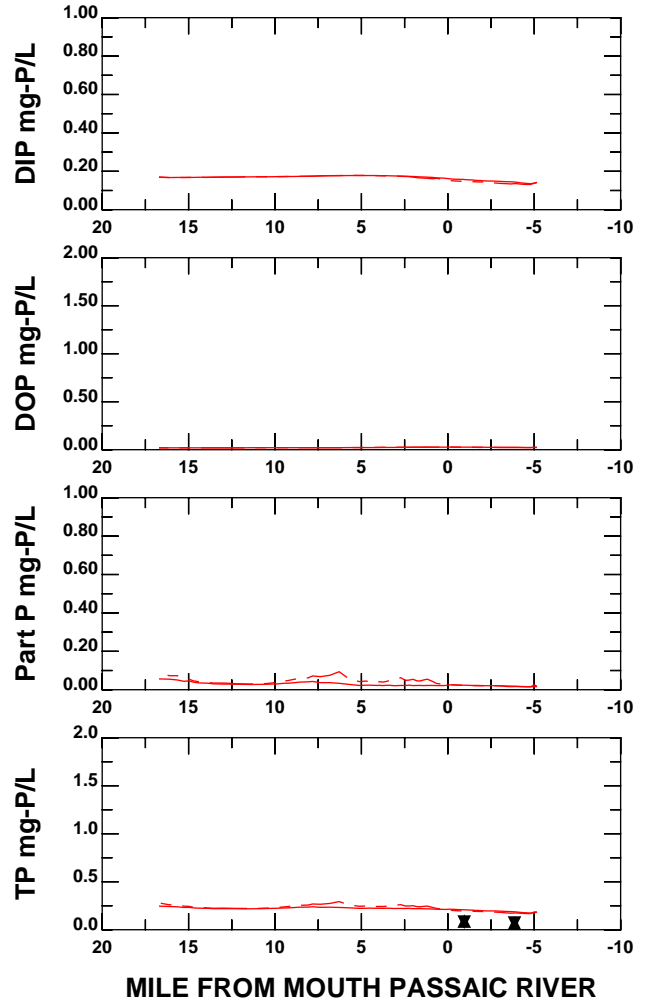
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0809



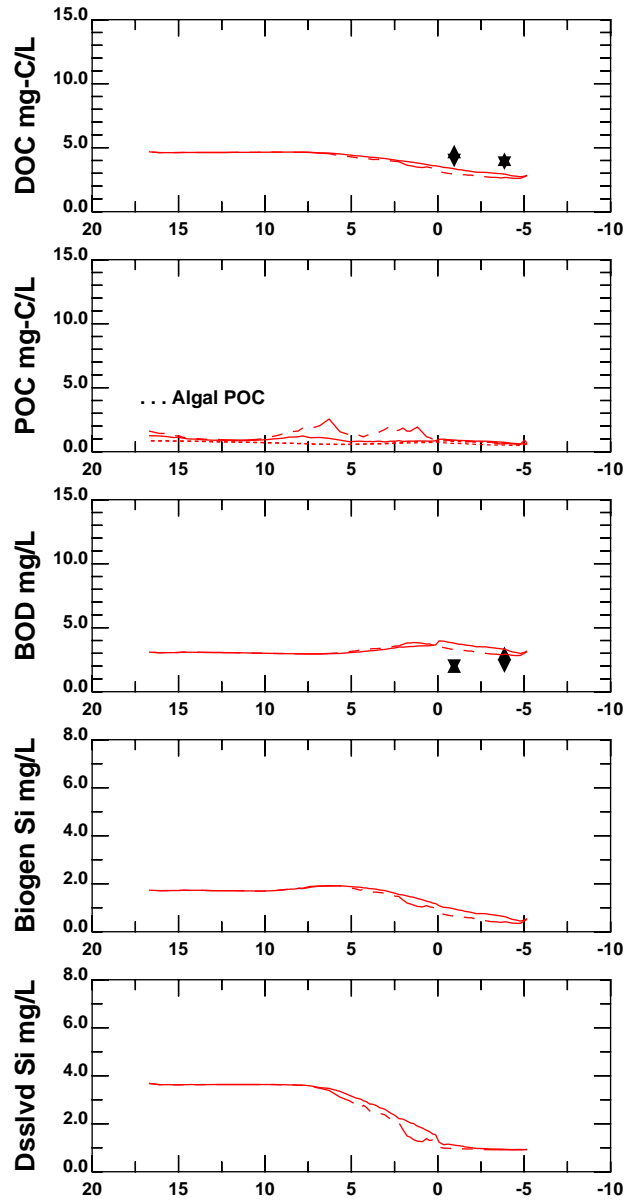
DATA  
NJHDG Mar 10,2009

MODEL

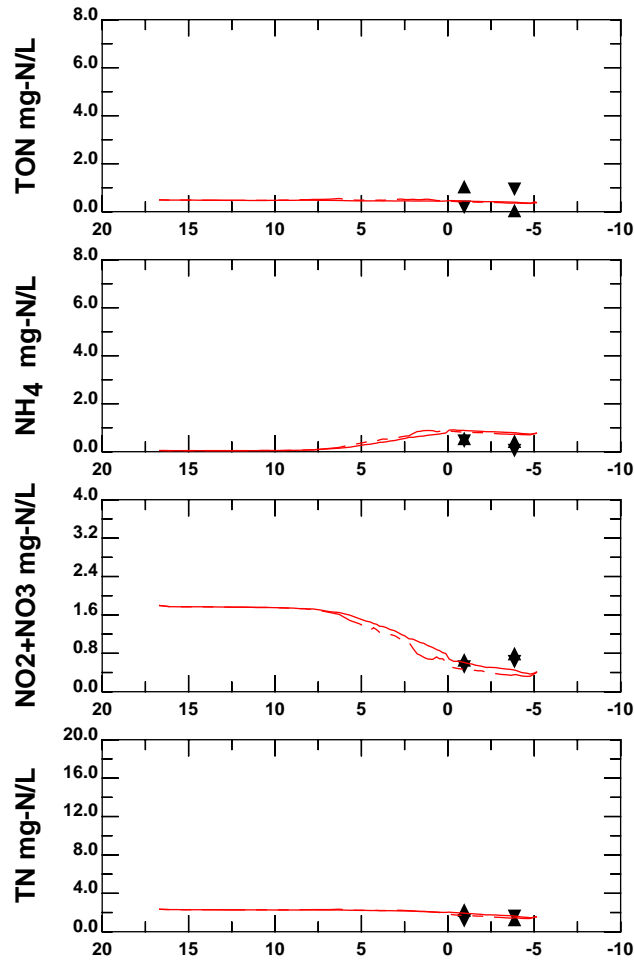
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min





MILE FROM MOUTH PASSAIC RIVER



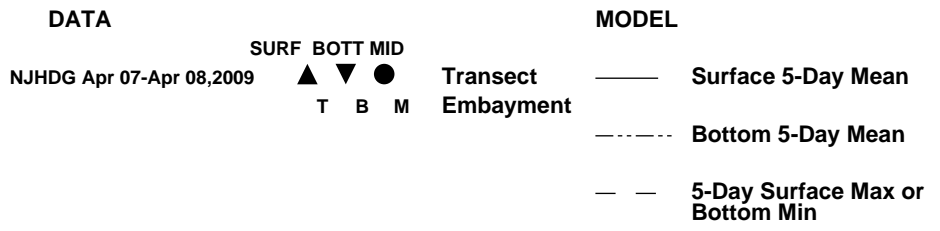
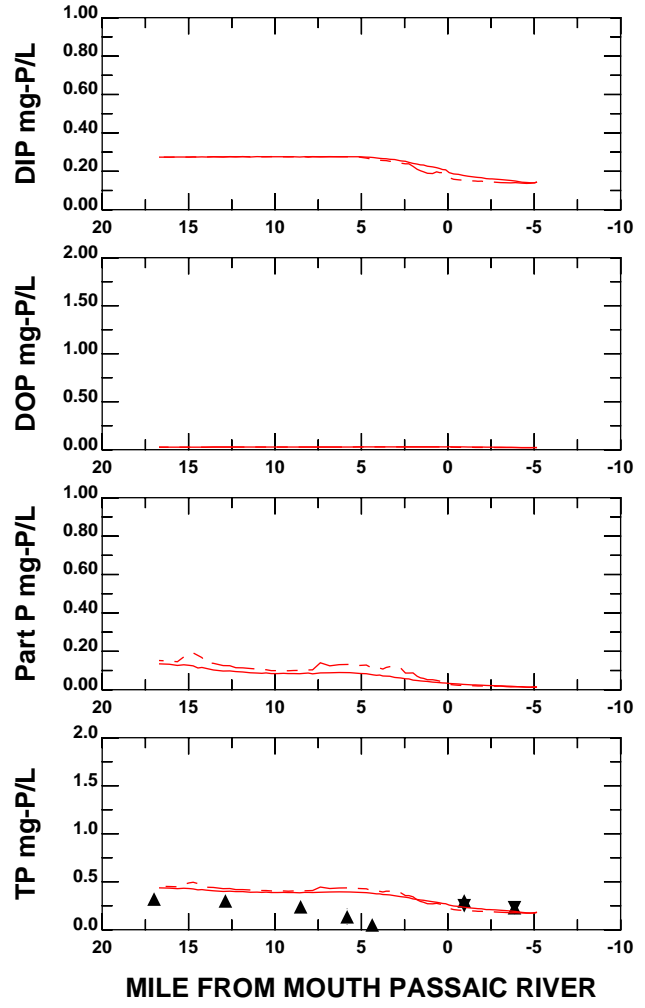
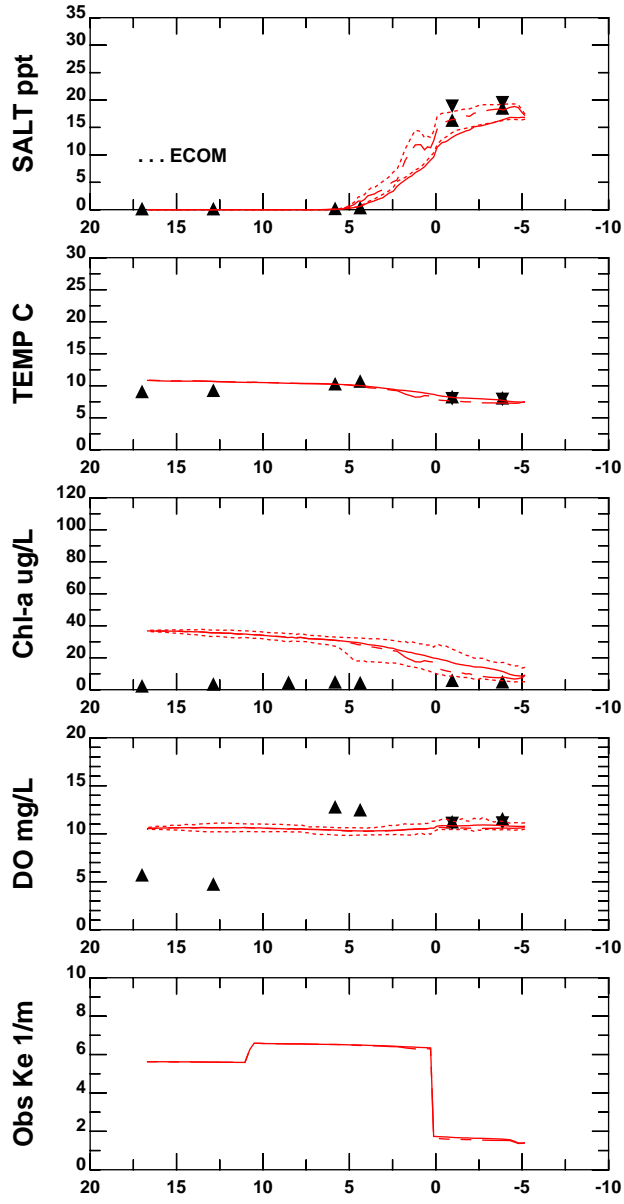
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHGD Mar 10, 2009

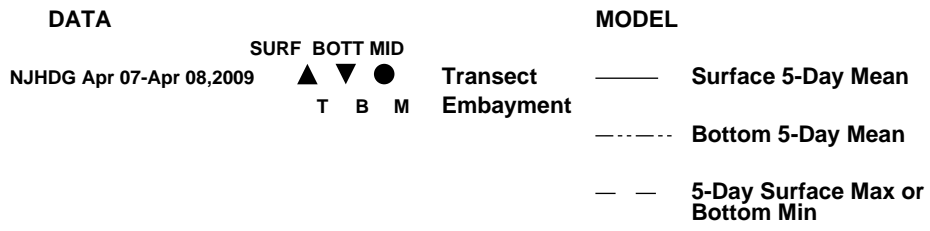
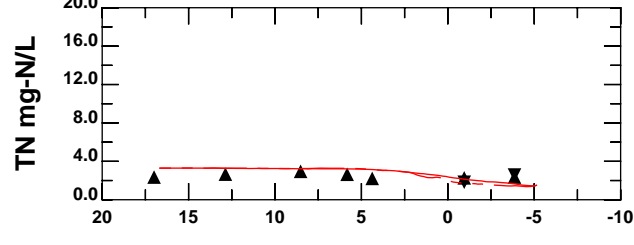
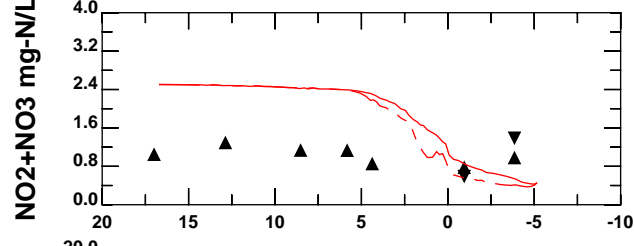
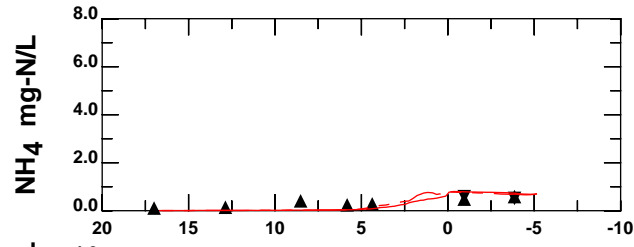
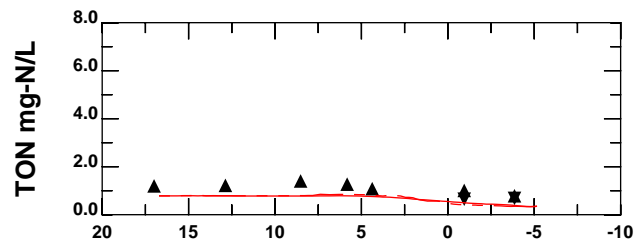
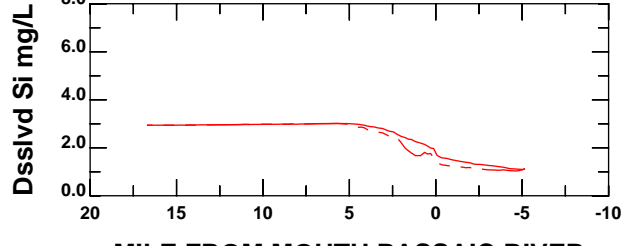
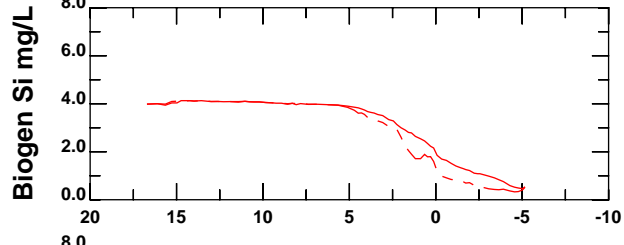
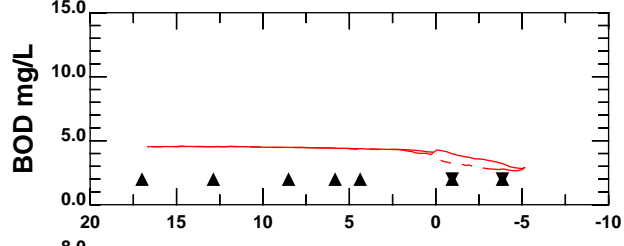
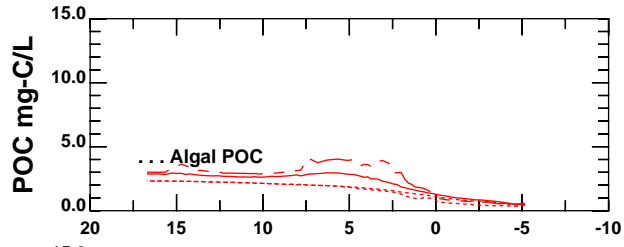
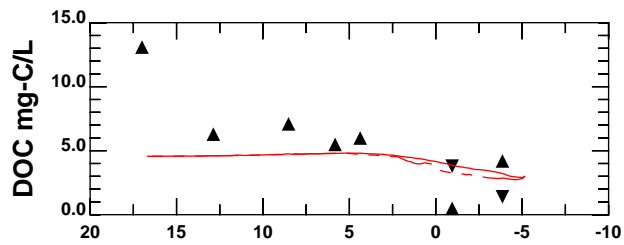
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

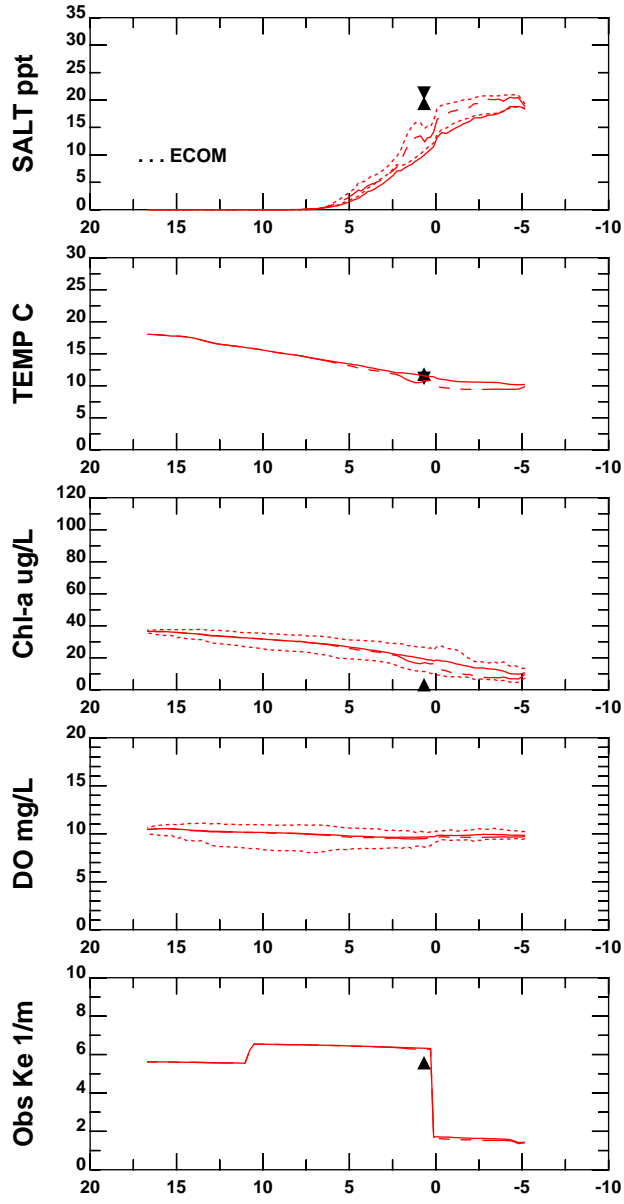
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

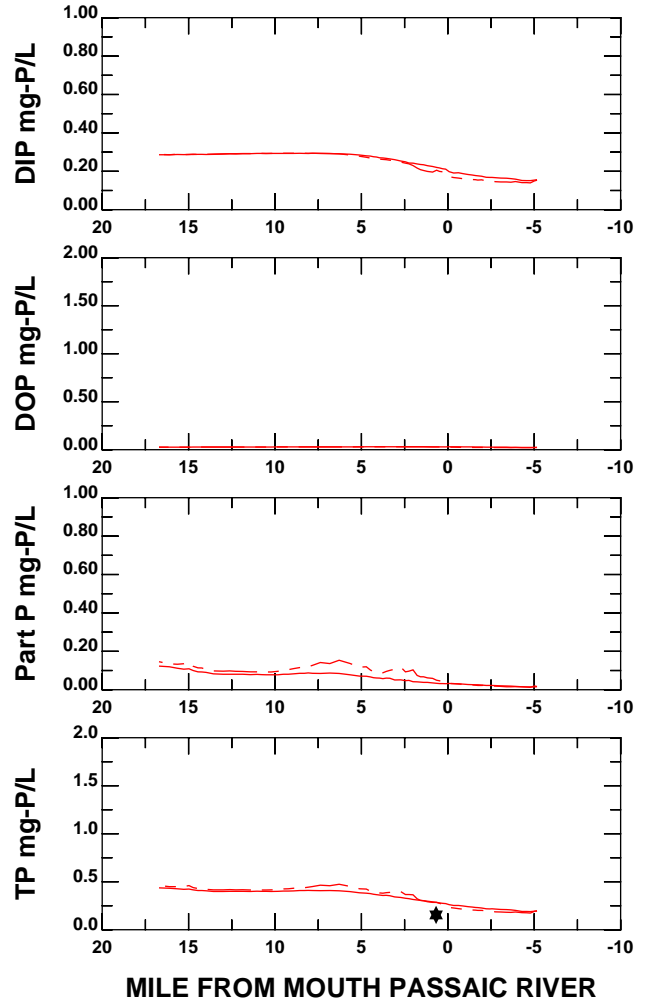


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



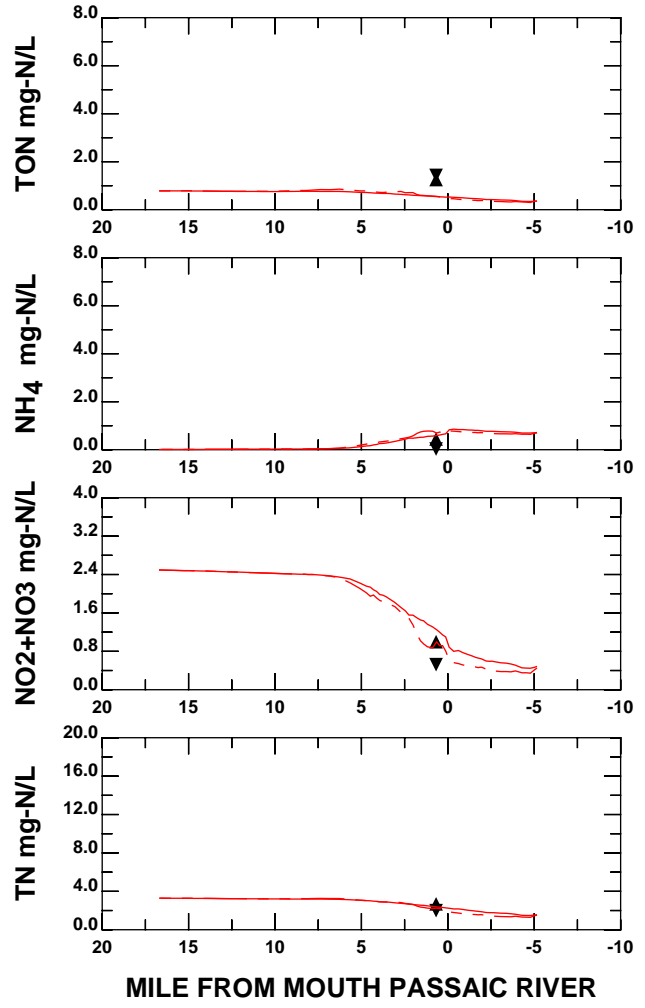
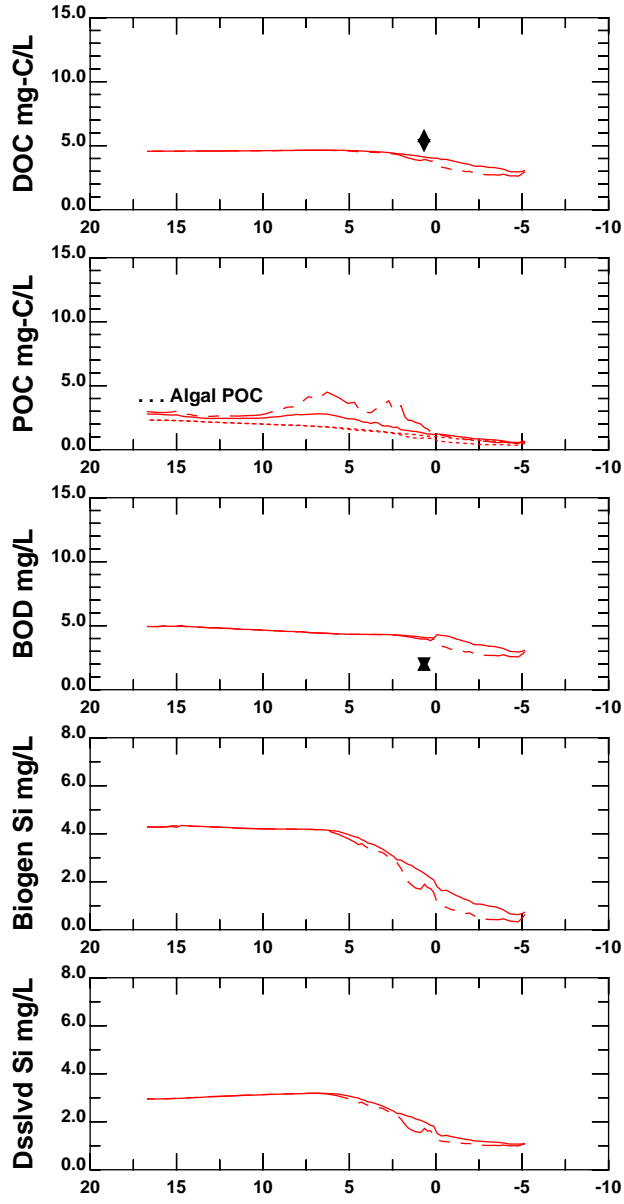
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Apr 27,2009

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

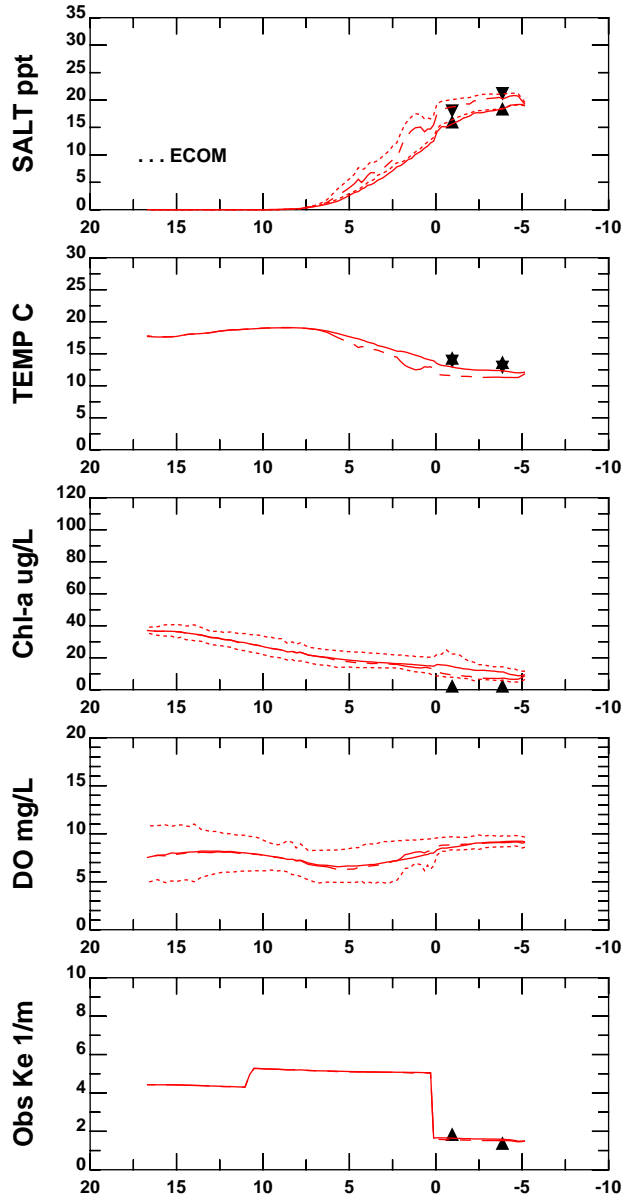


DATA  
NJHDG Apr 27, 2009

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- · - · 5-Day Surface Max or Bottom Min

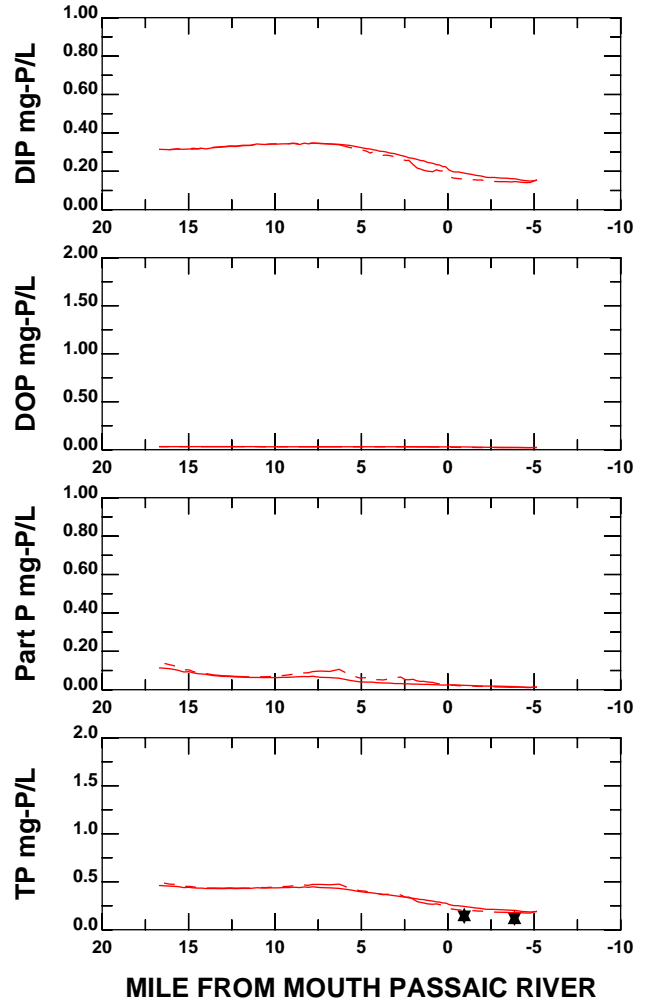
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809



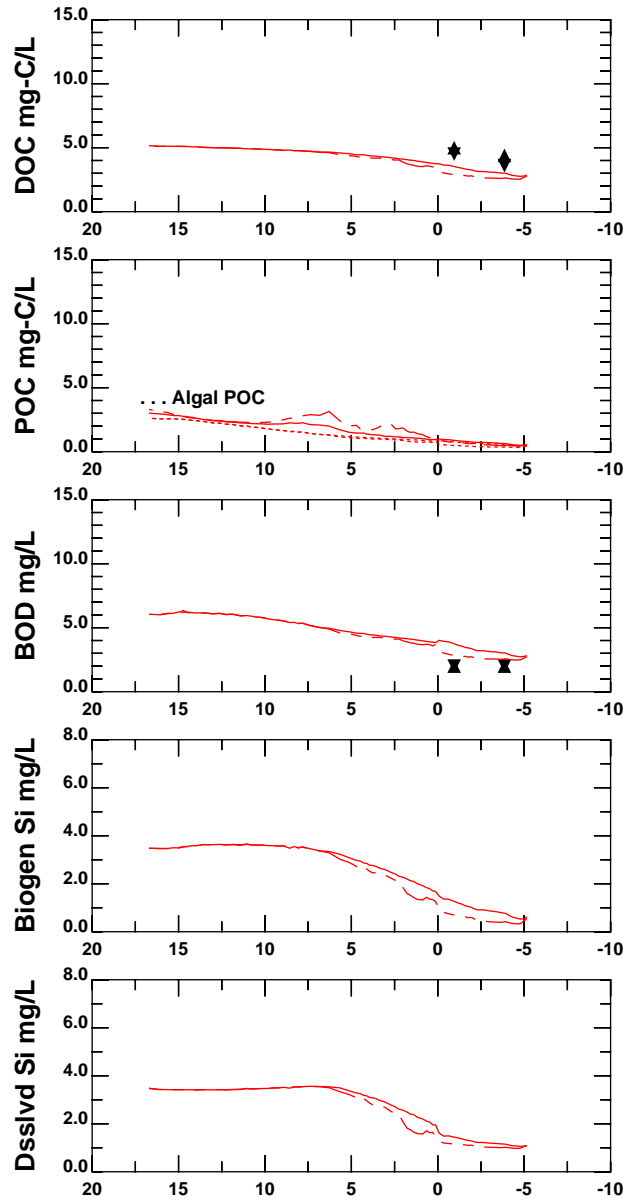
DATA  
NJHDG May 04,2009

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL

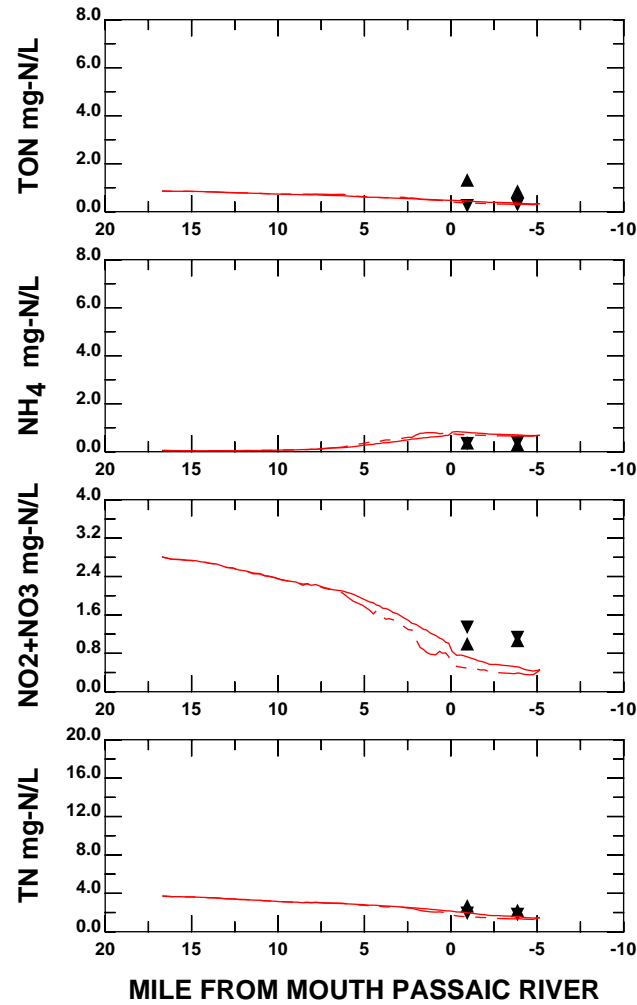
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG May 04,2009

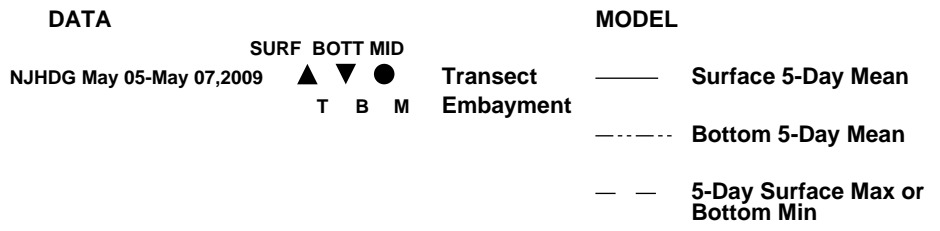
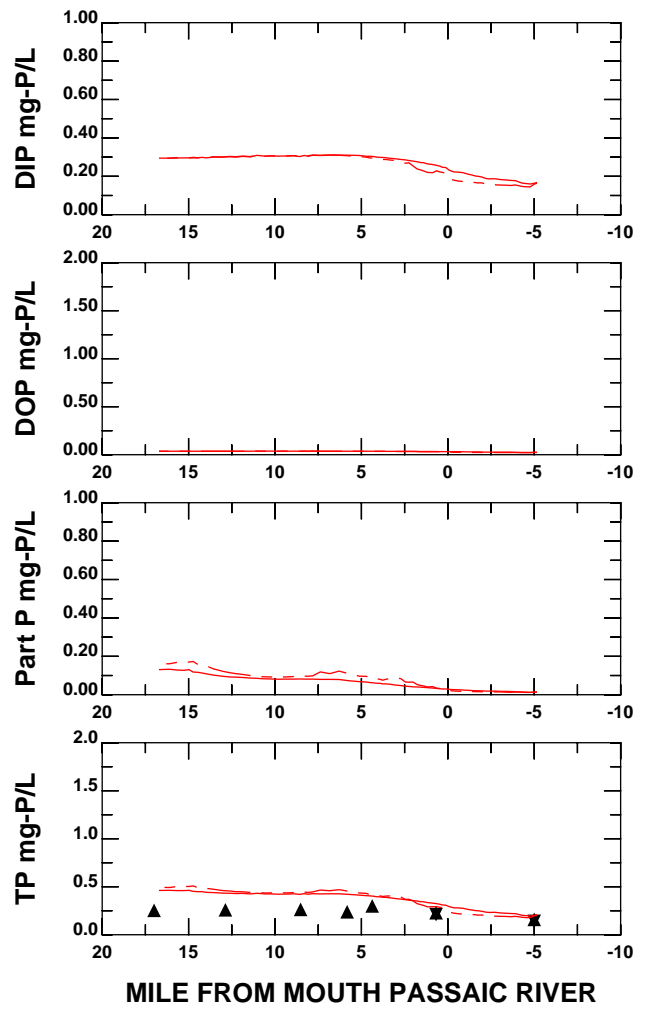
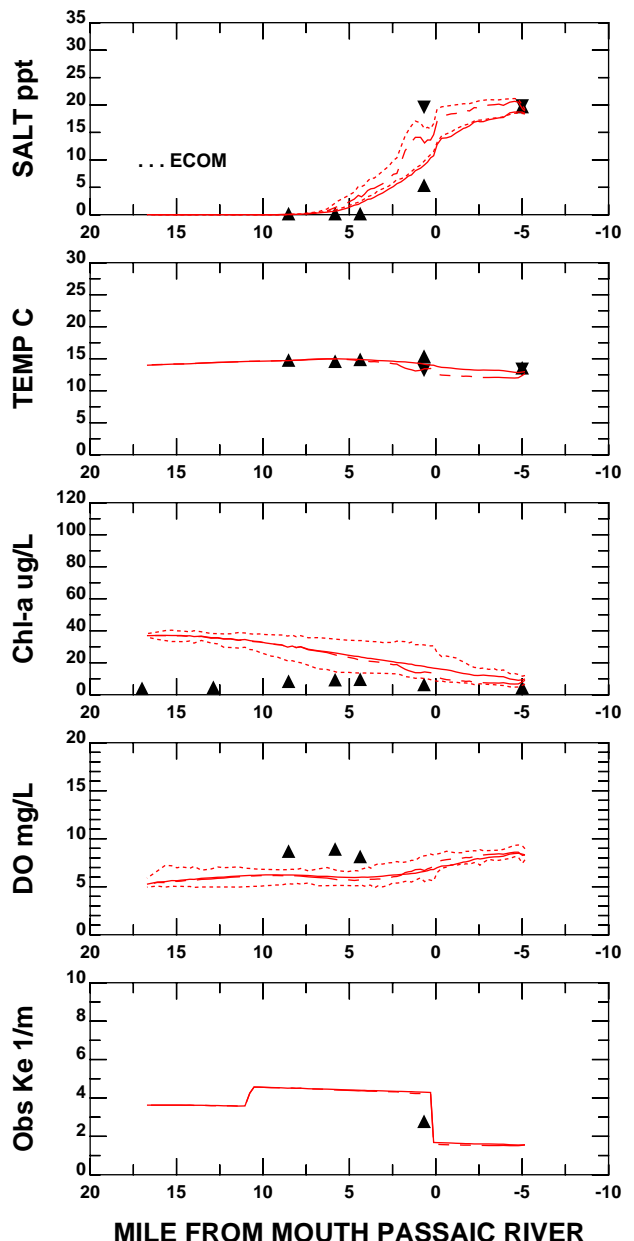
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

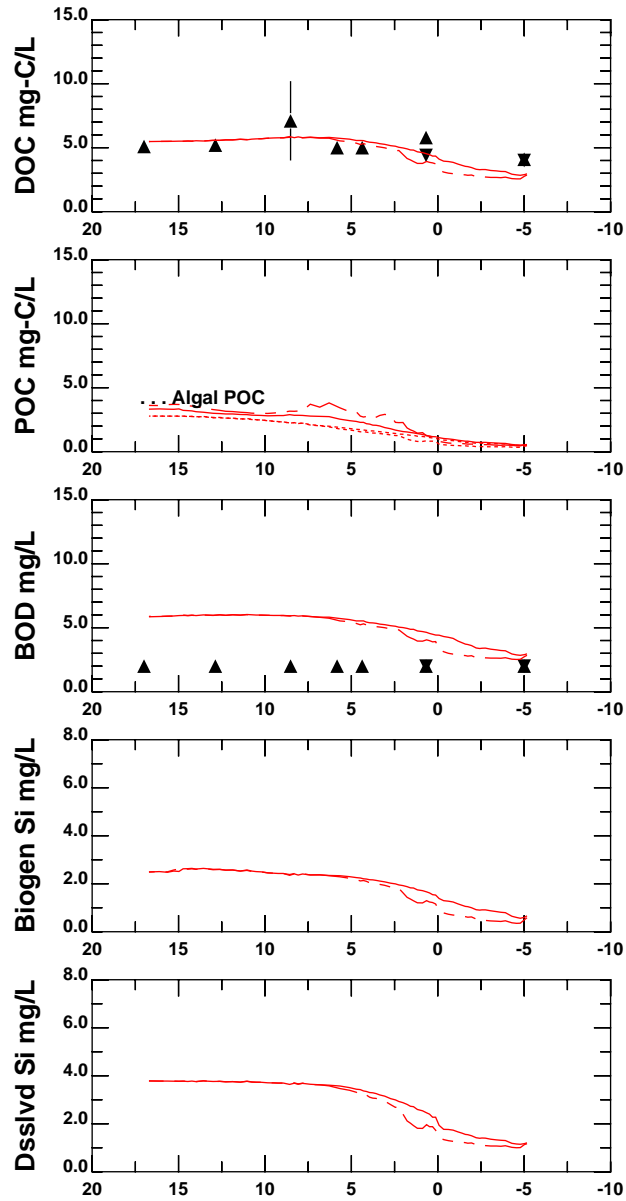
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

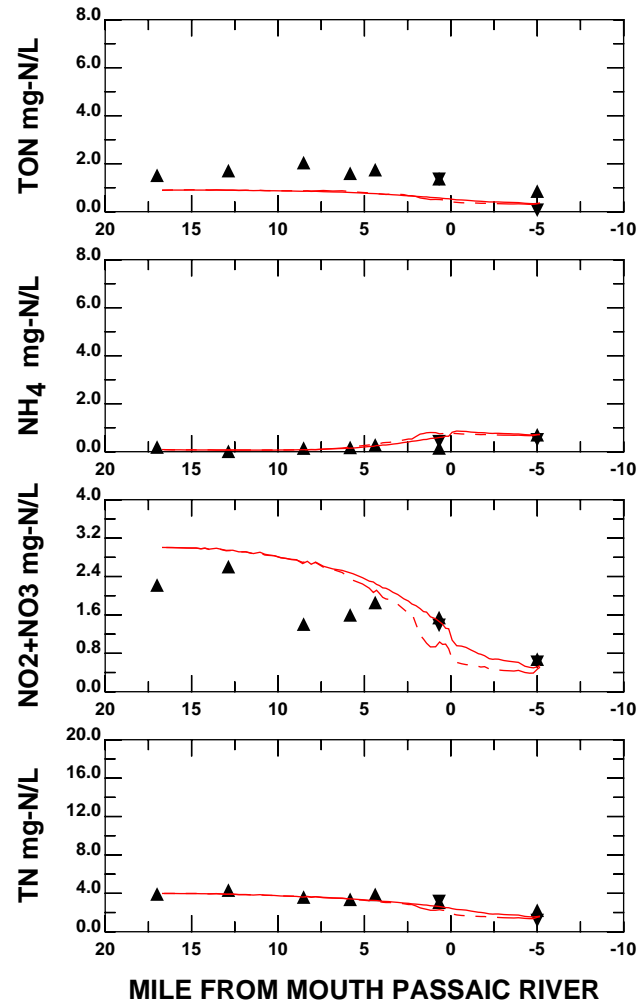




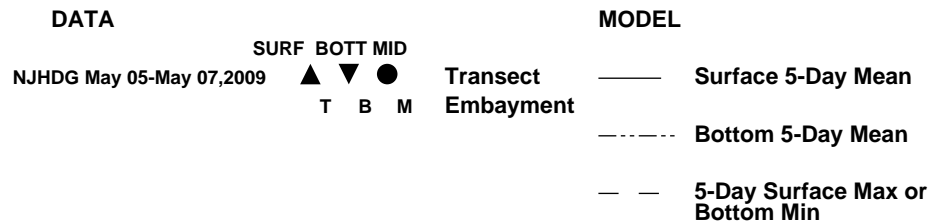
MILE FROM MOUTH PASSAIC RIVER

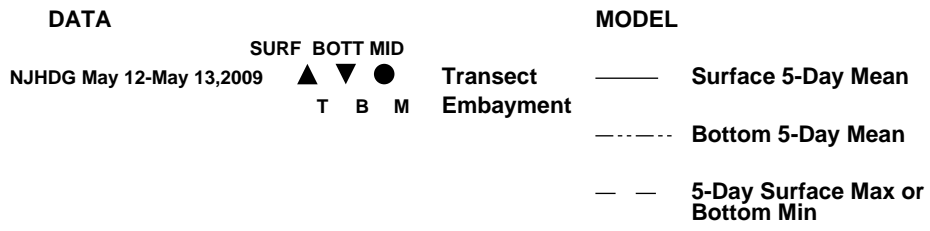
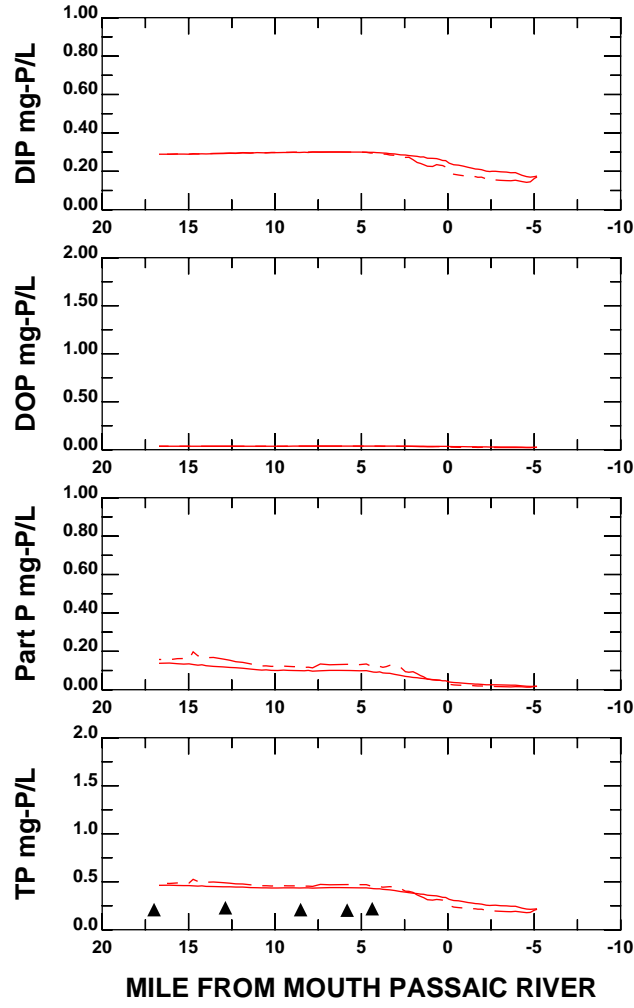
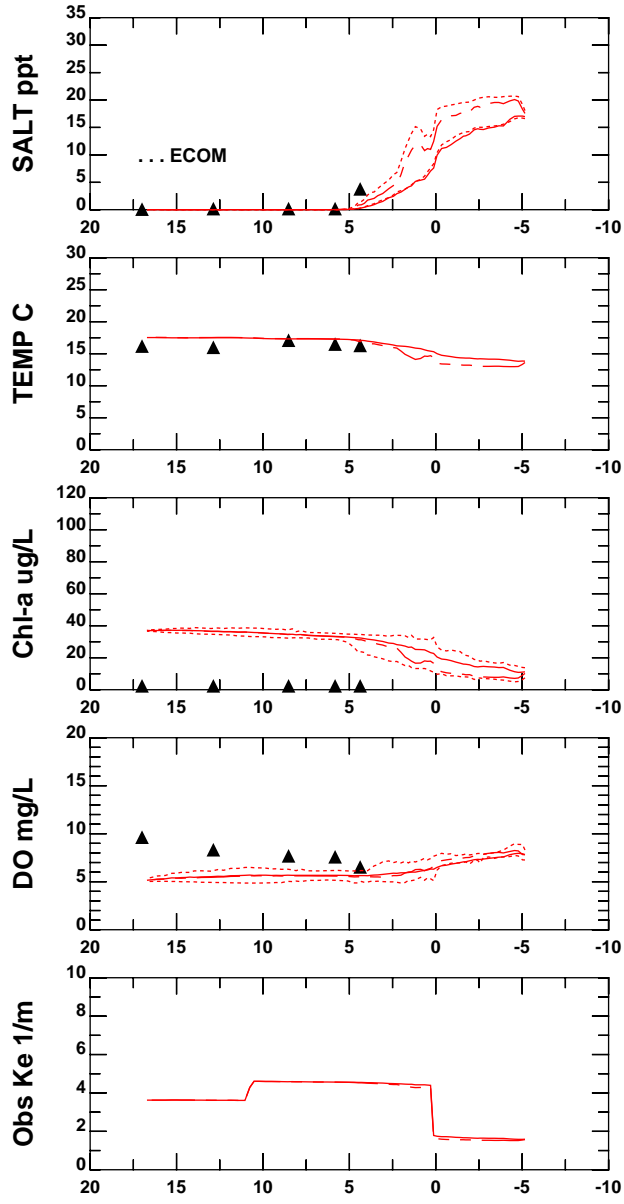
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

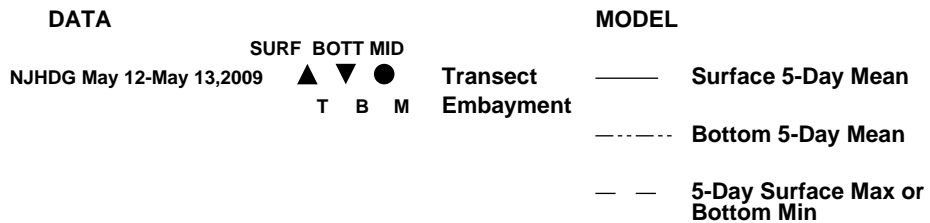
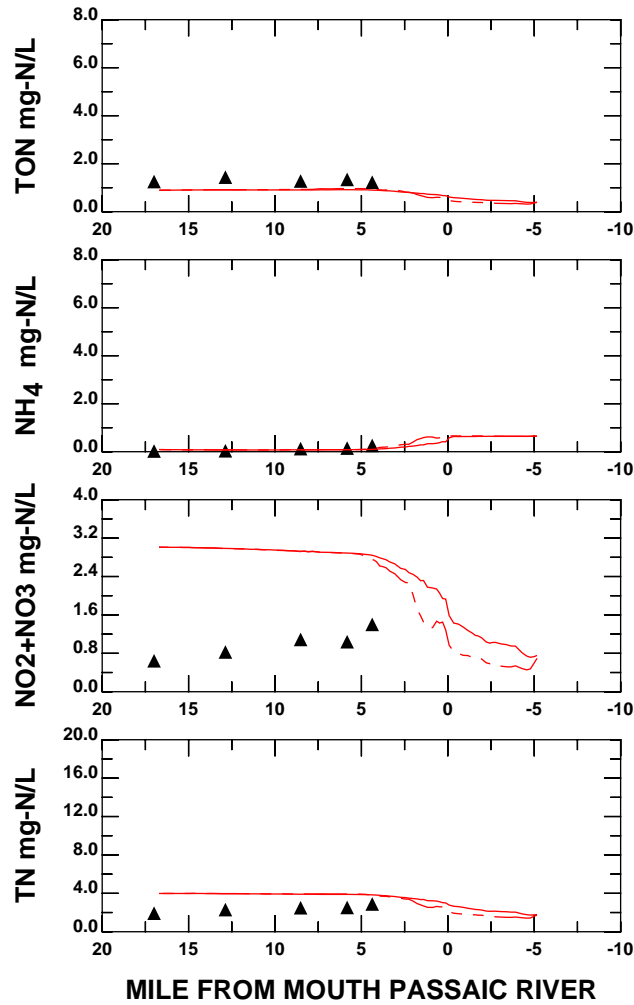
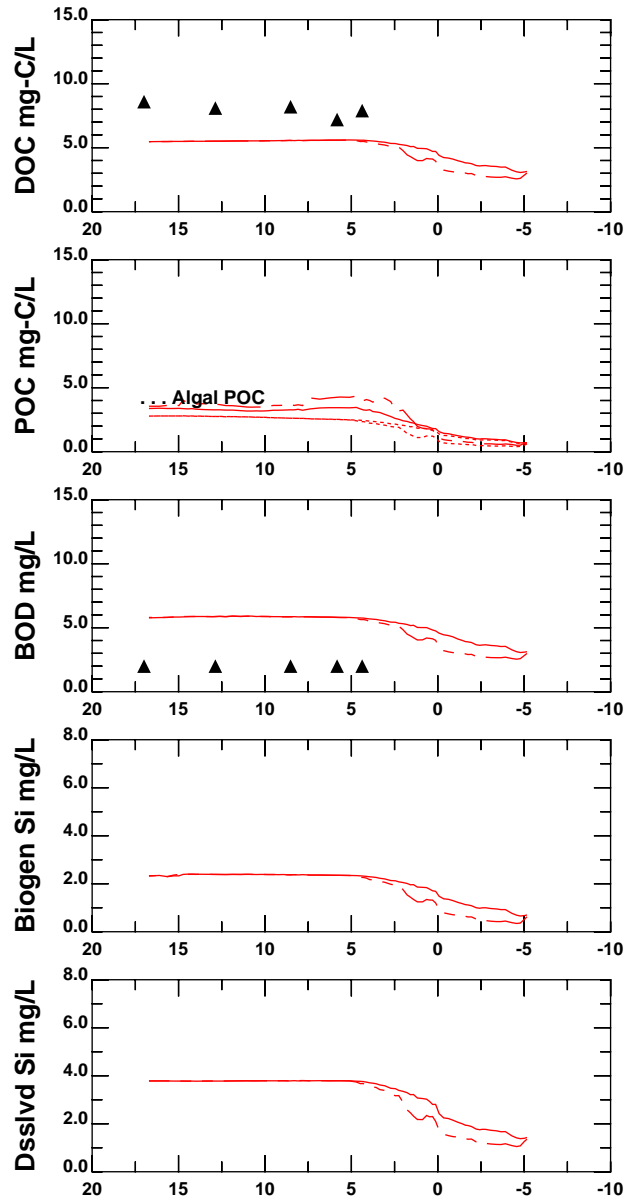


MILE FROM MOUTH PASSAIC RIVER

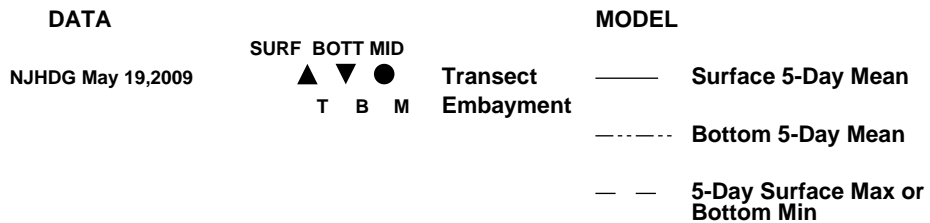
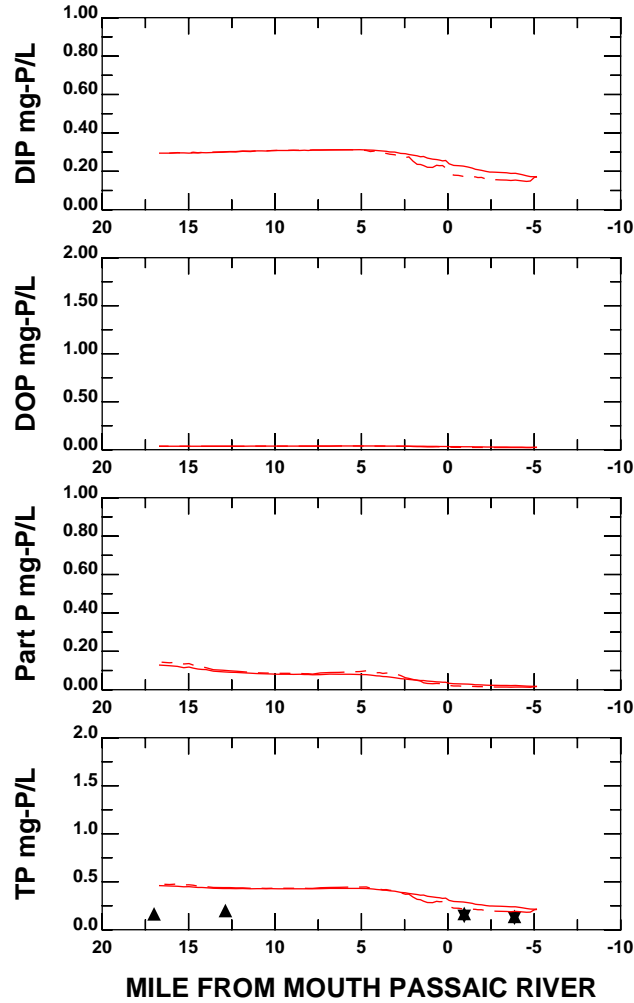
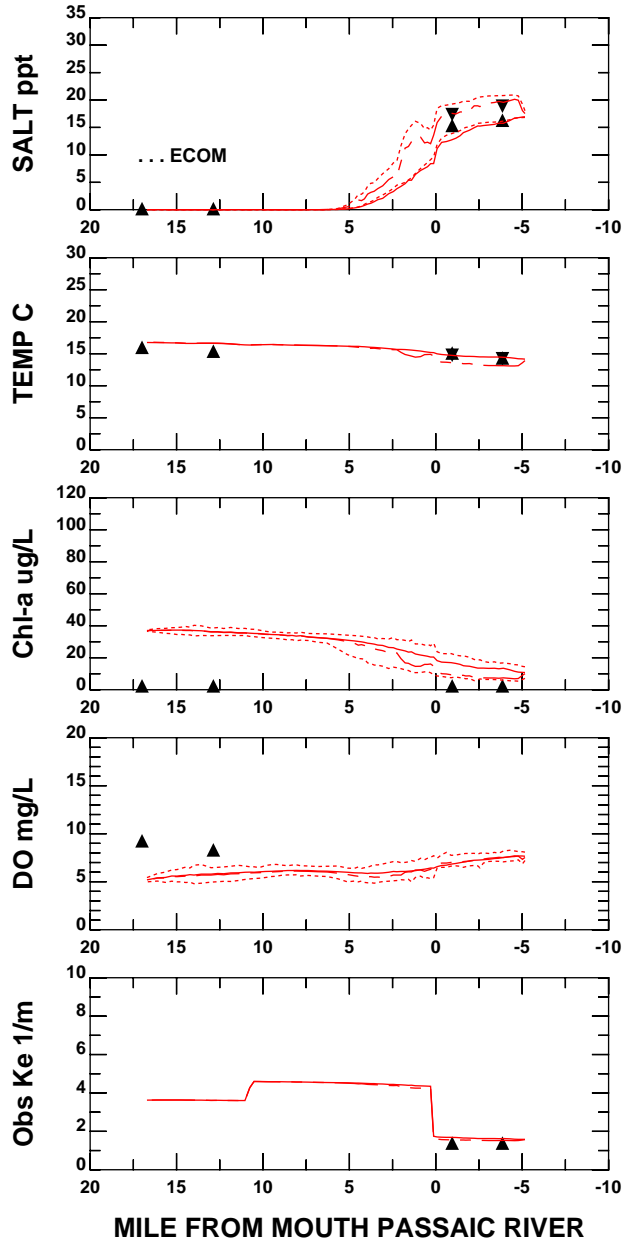




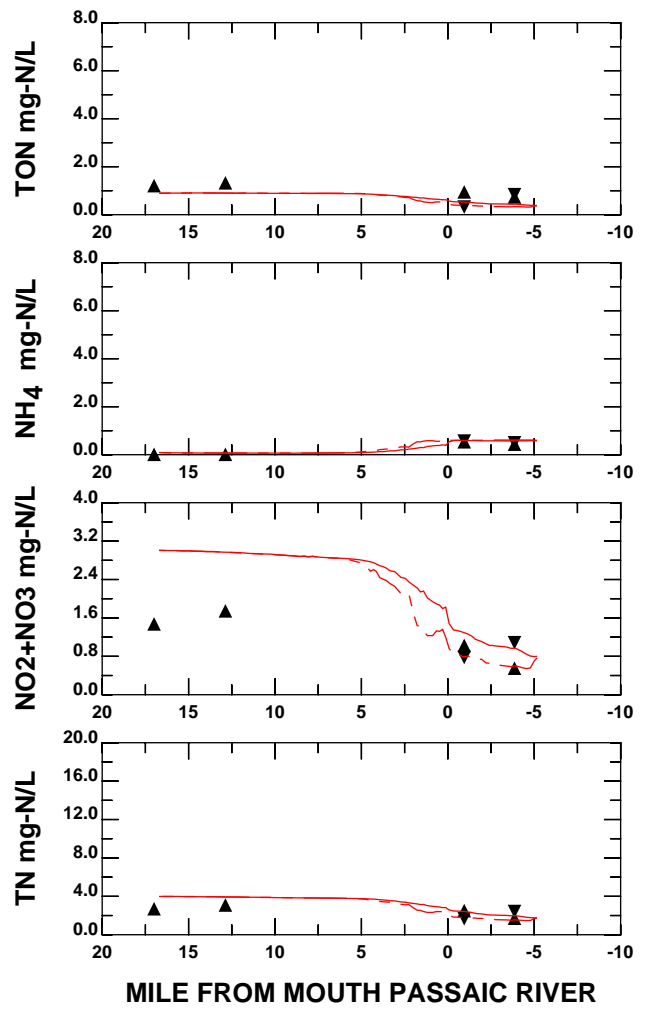
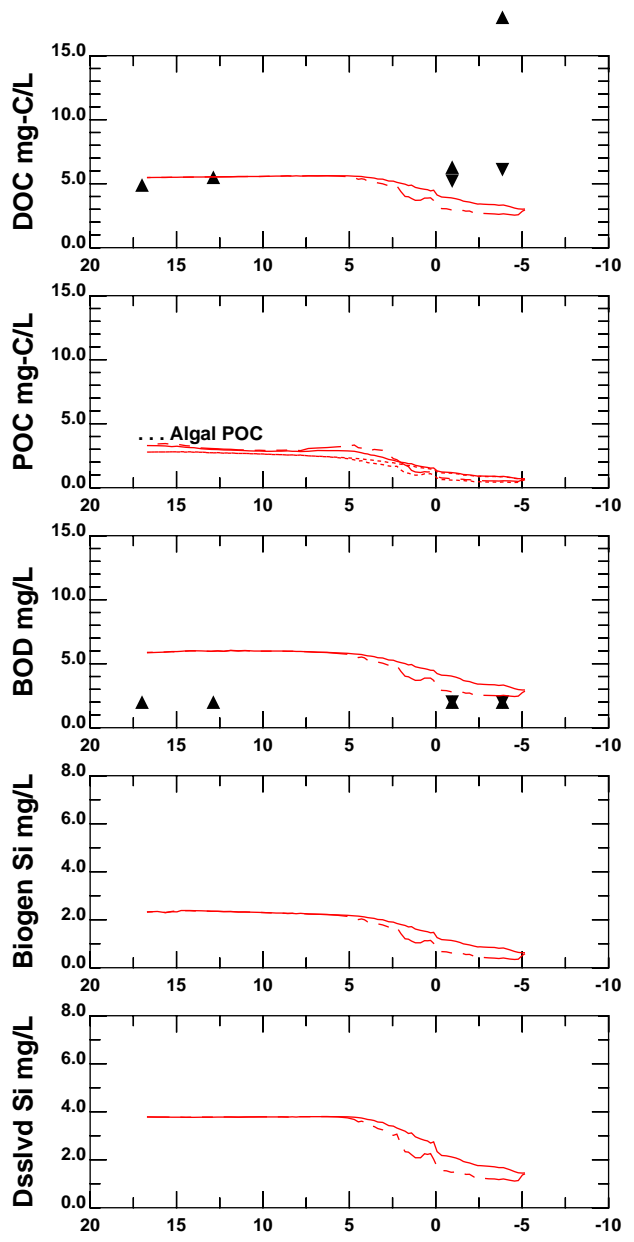
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



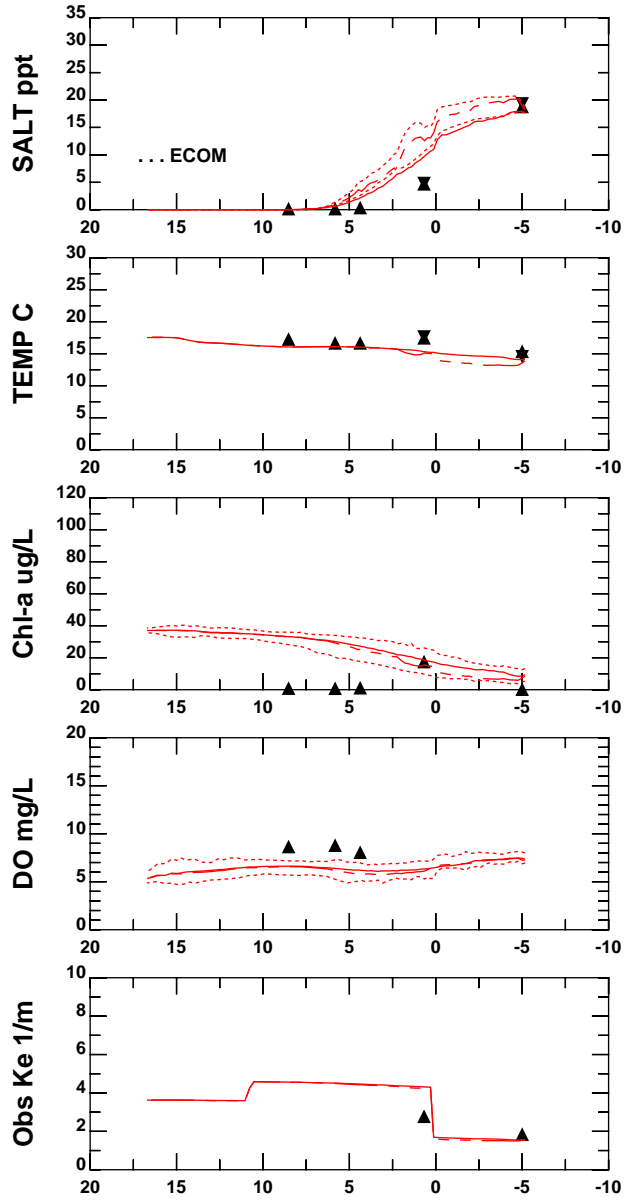
DATA  
NJHDG May 19,2009

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

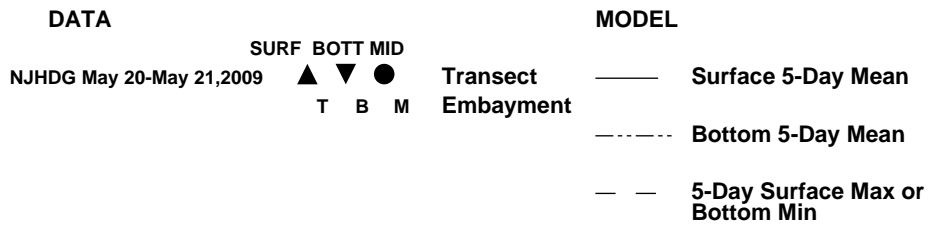
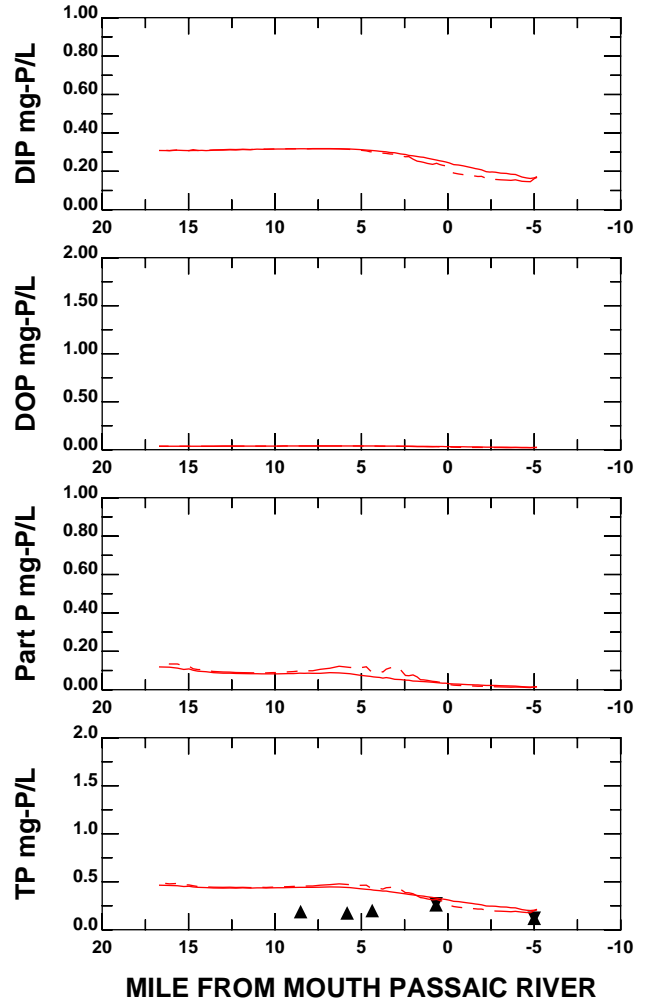
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809

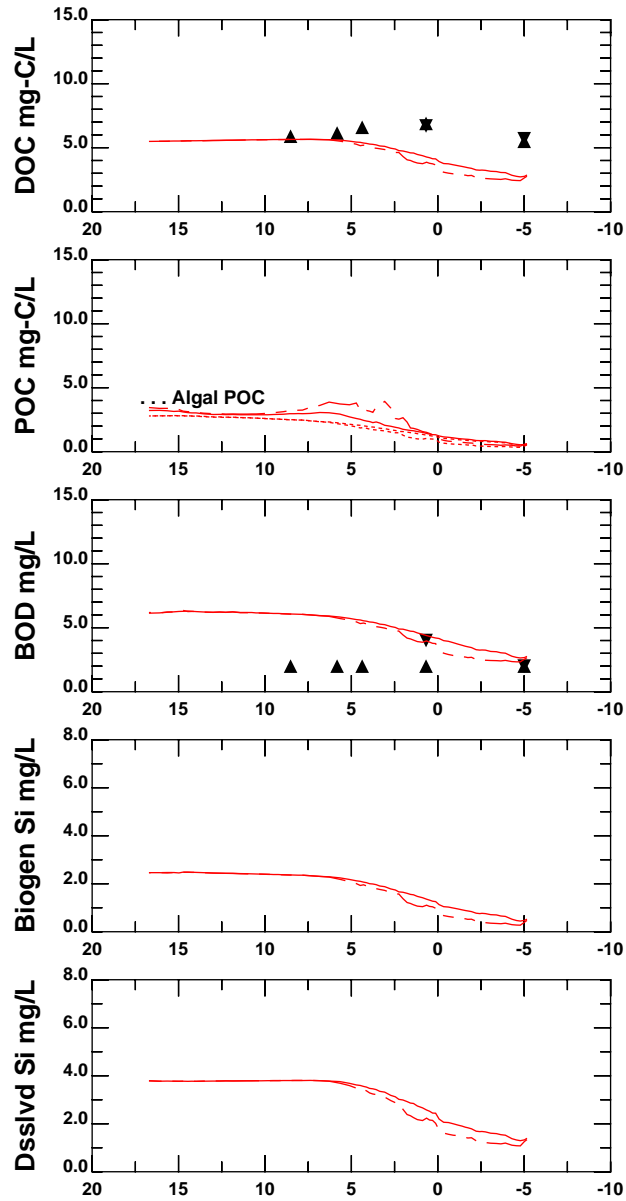


MILE FROM MOUTH PASSAIC RIVER

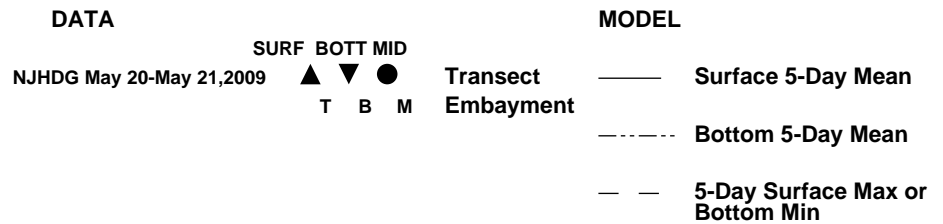
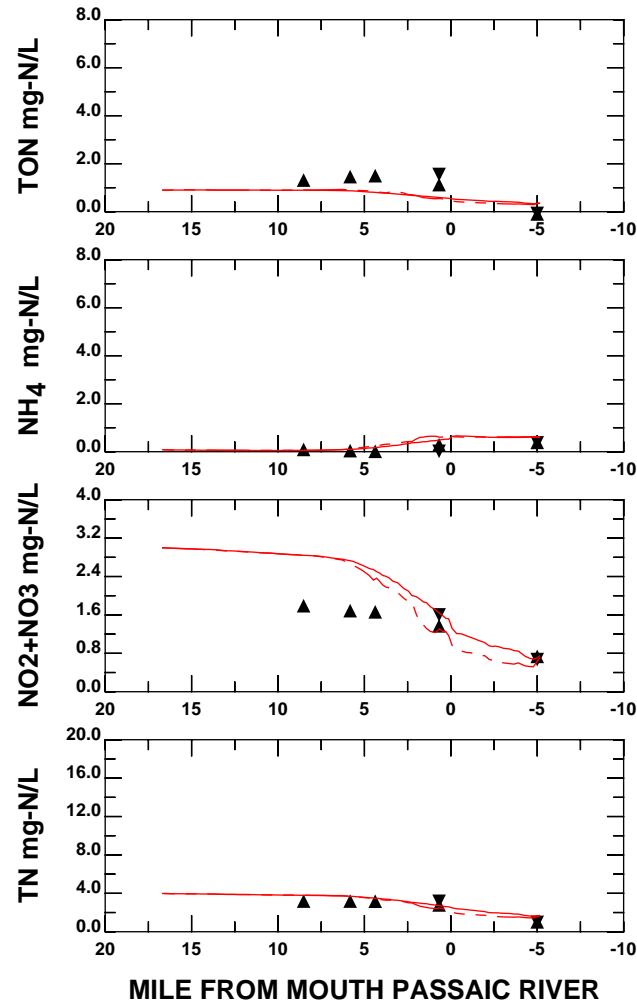
### PASSAIC RIVER AND NEWARK BAY

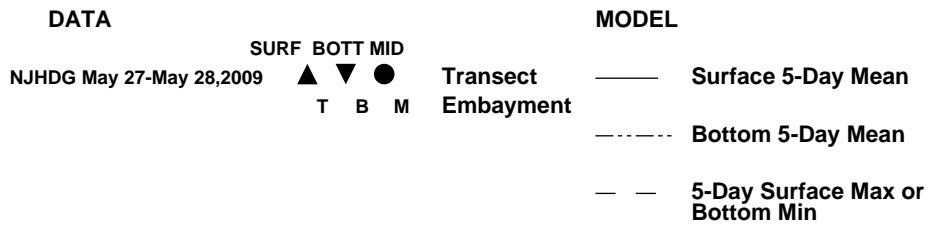
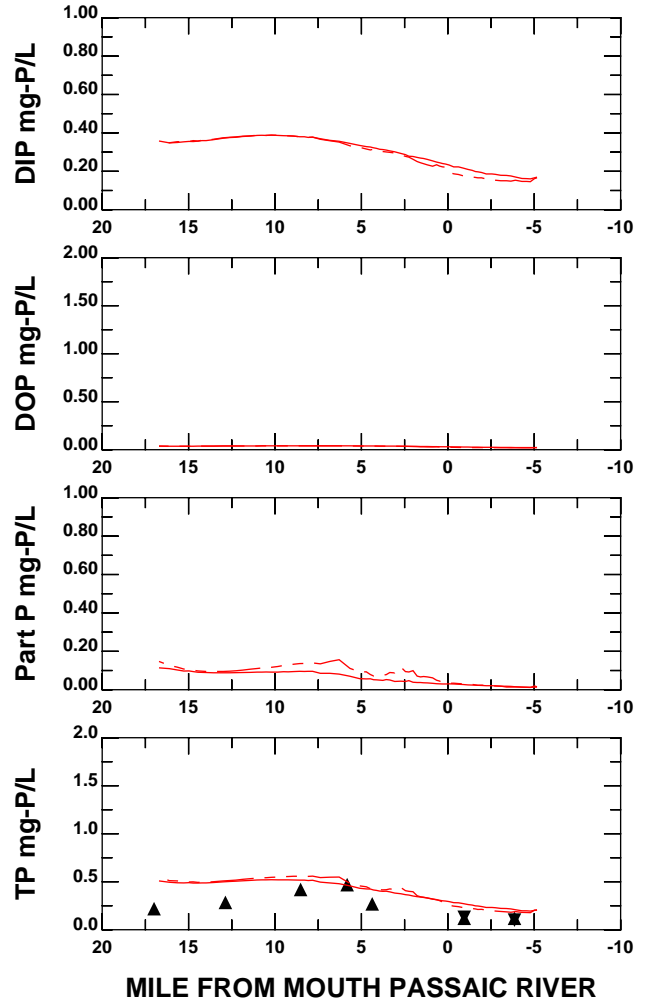
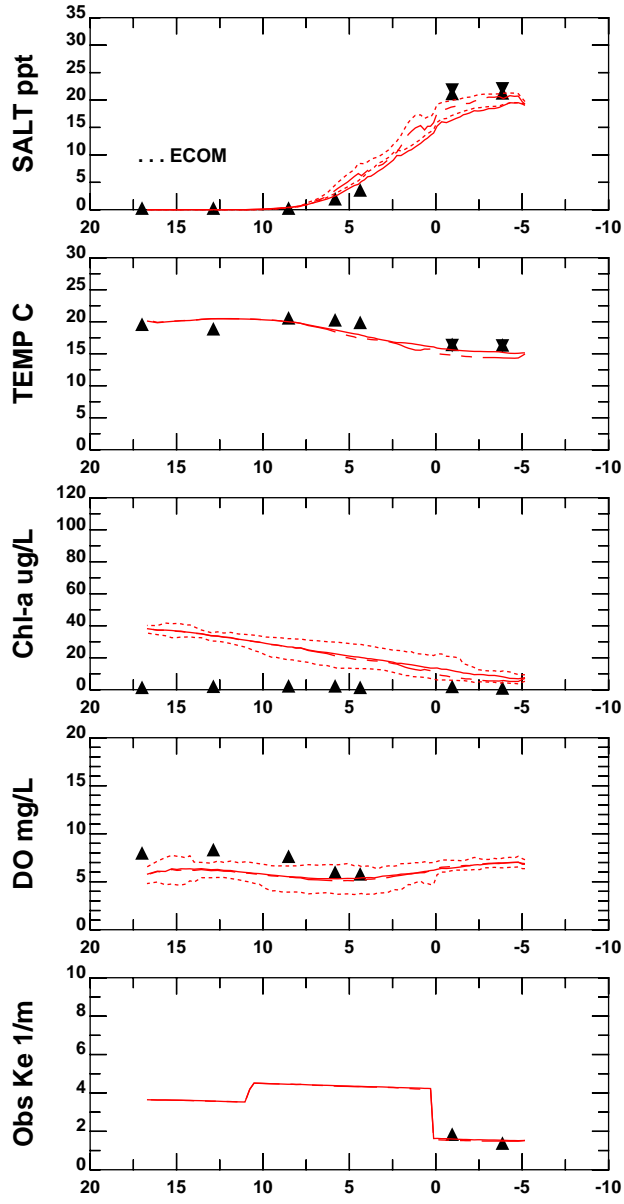
RED=model:Collapsed Grid 0809





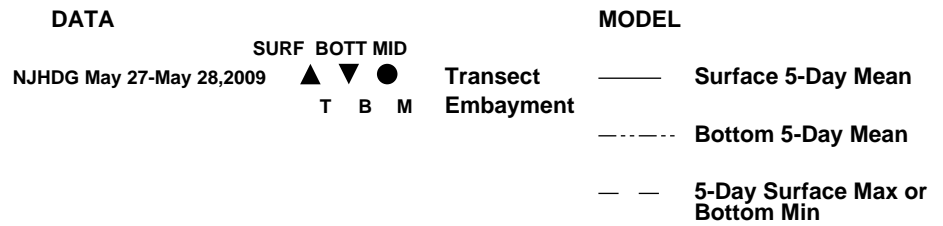
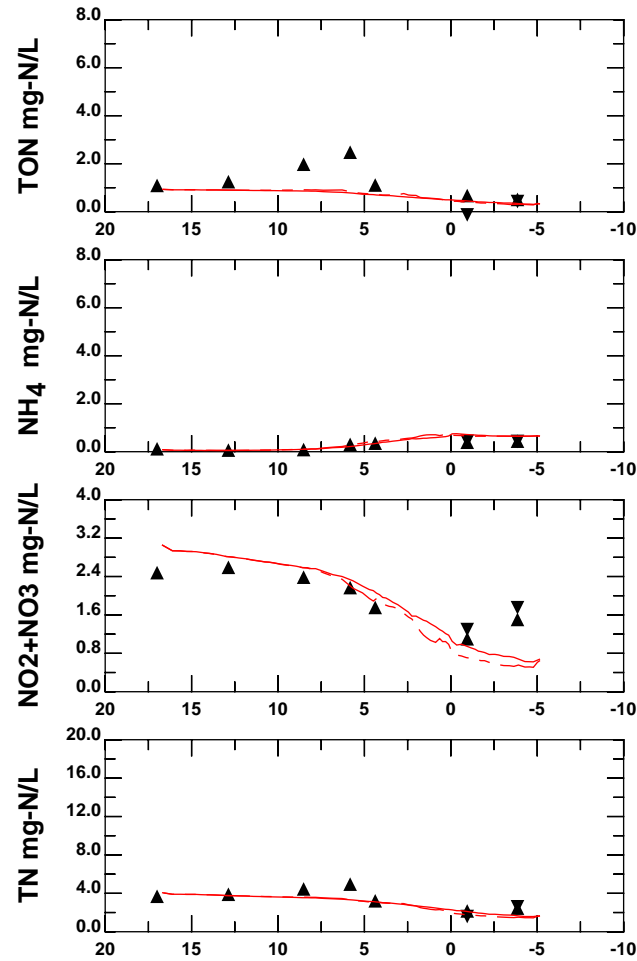
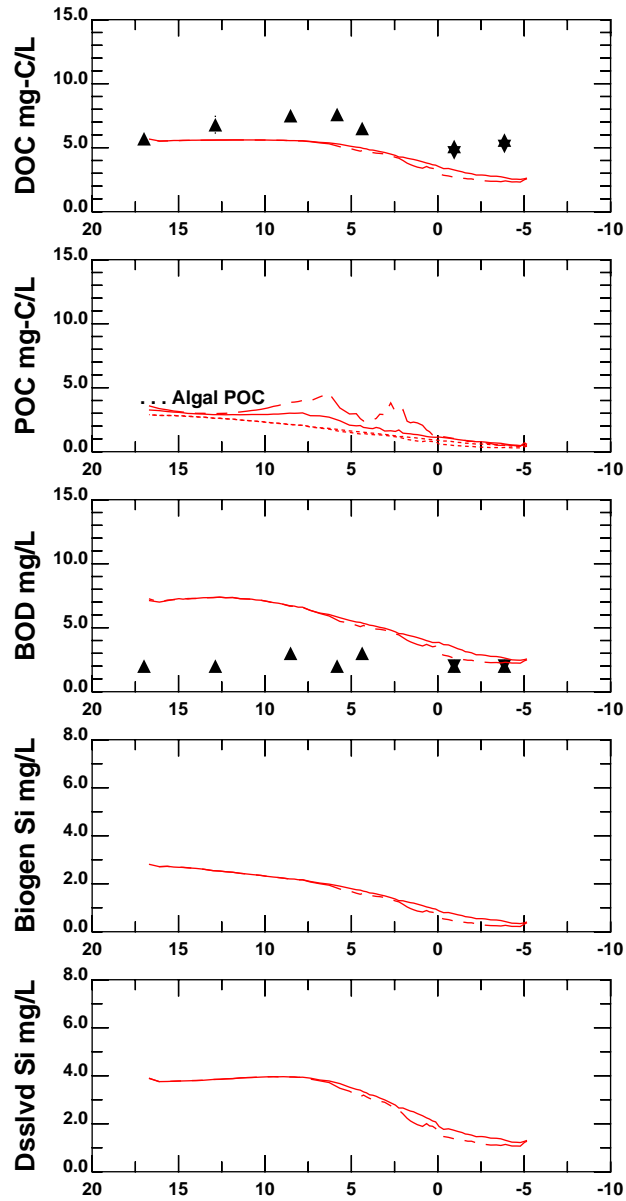
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



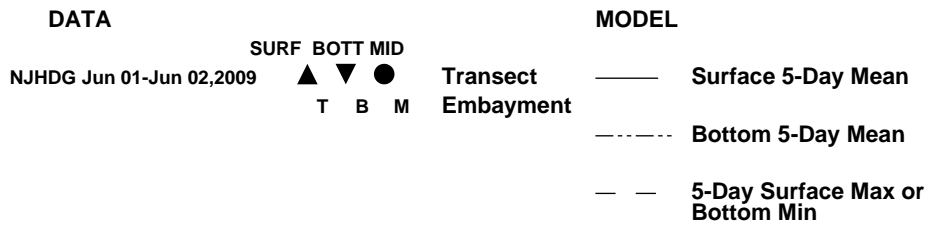
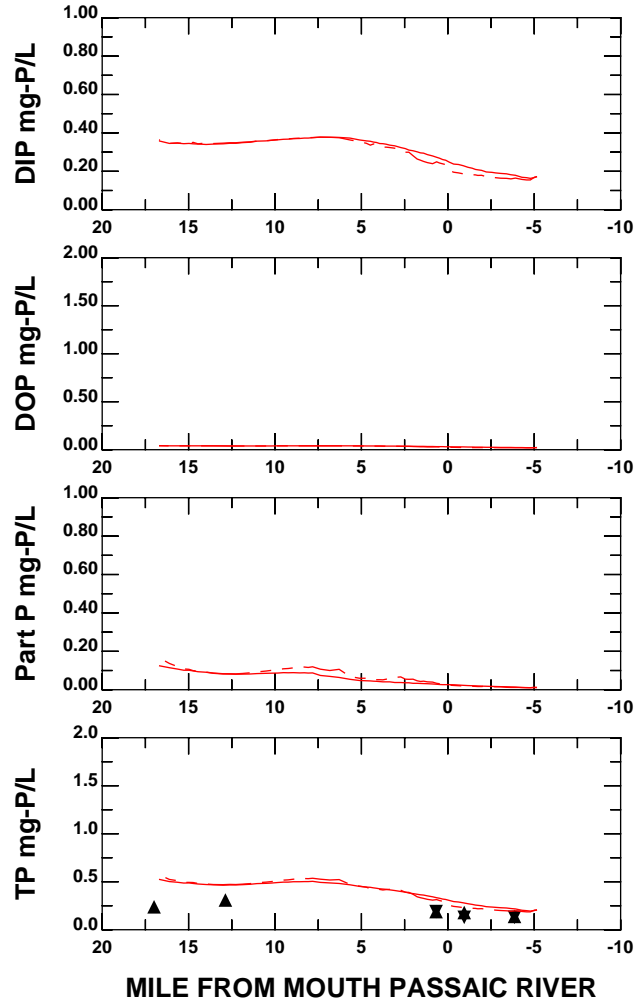
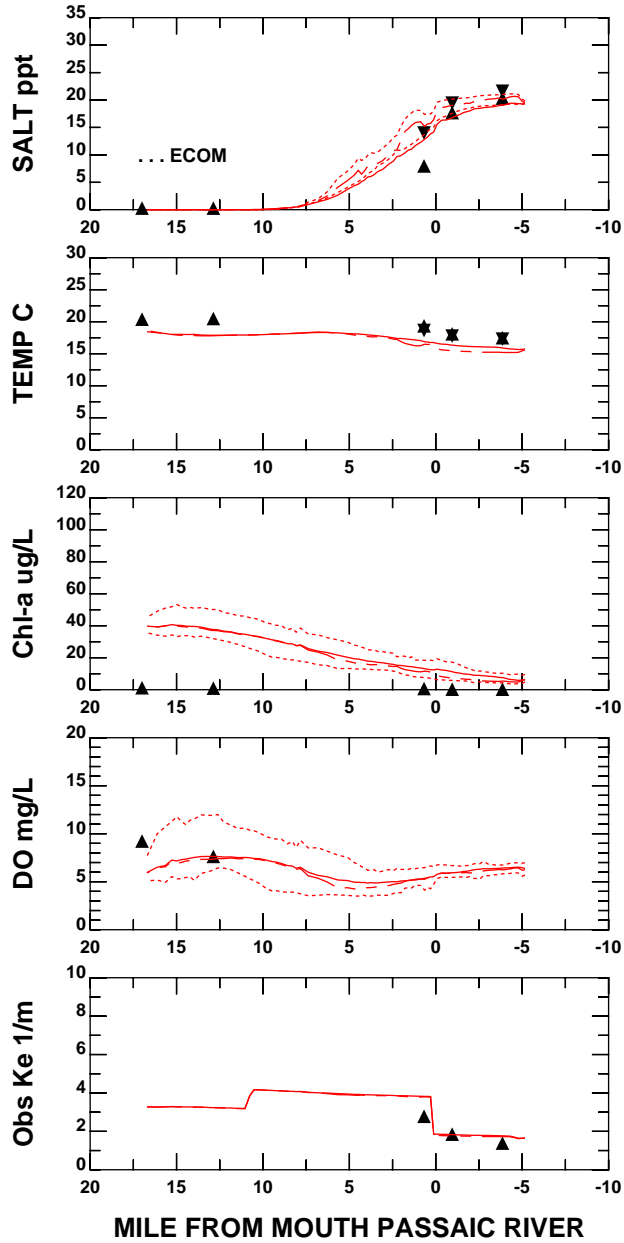


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

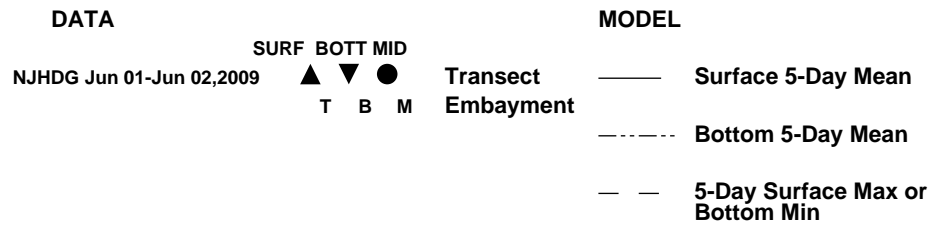
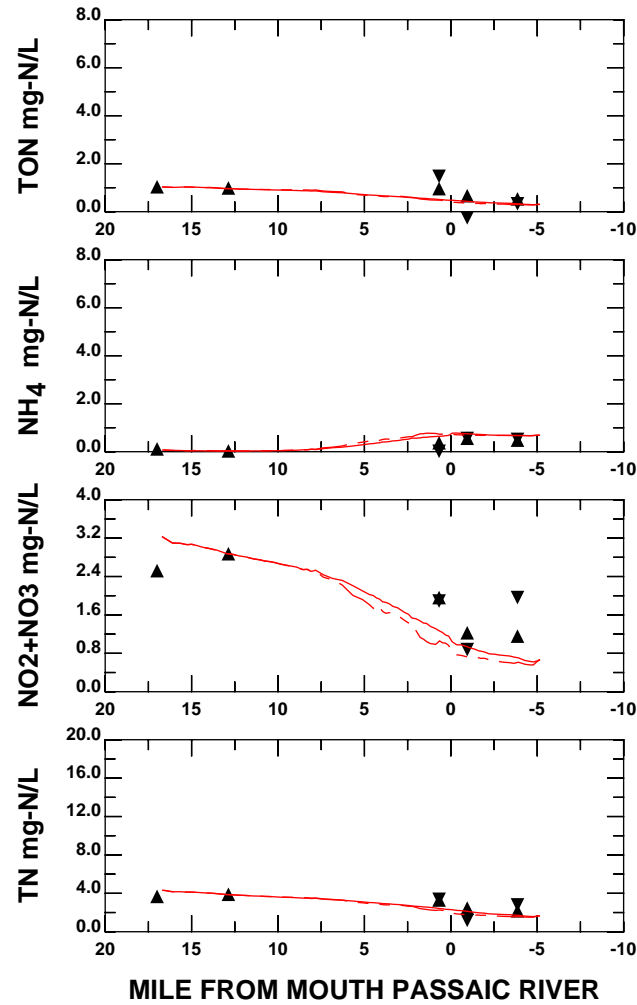
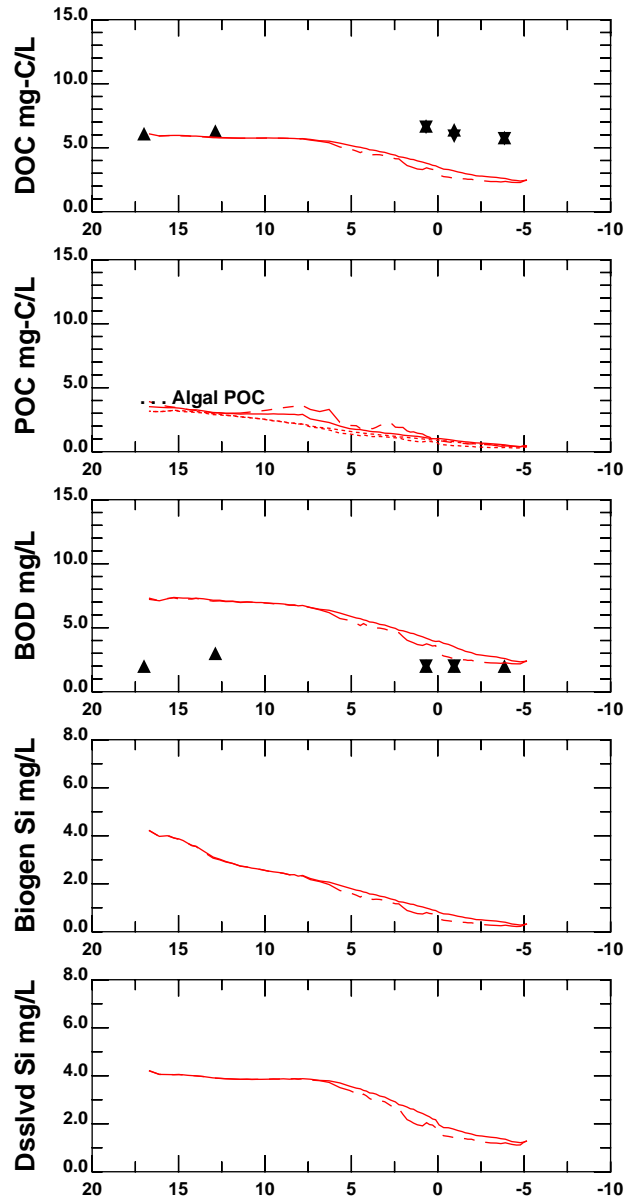




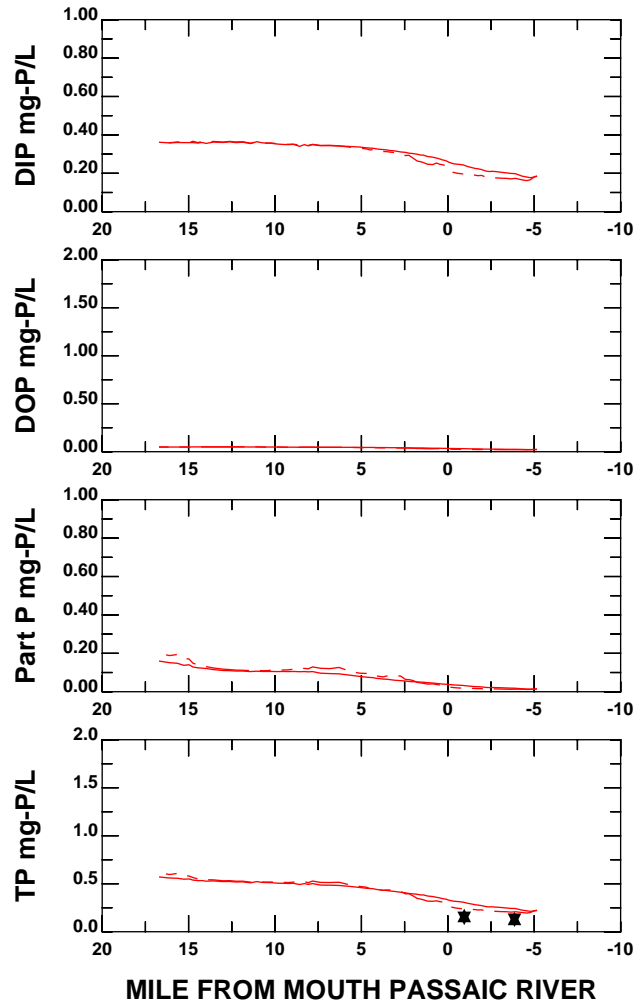
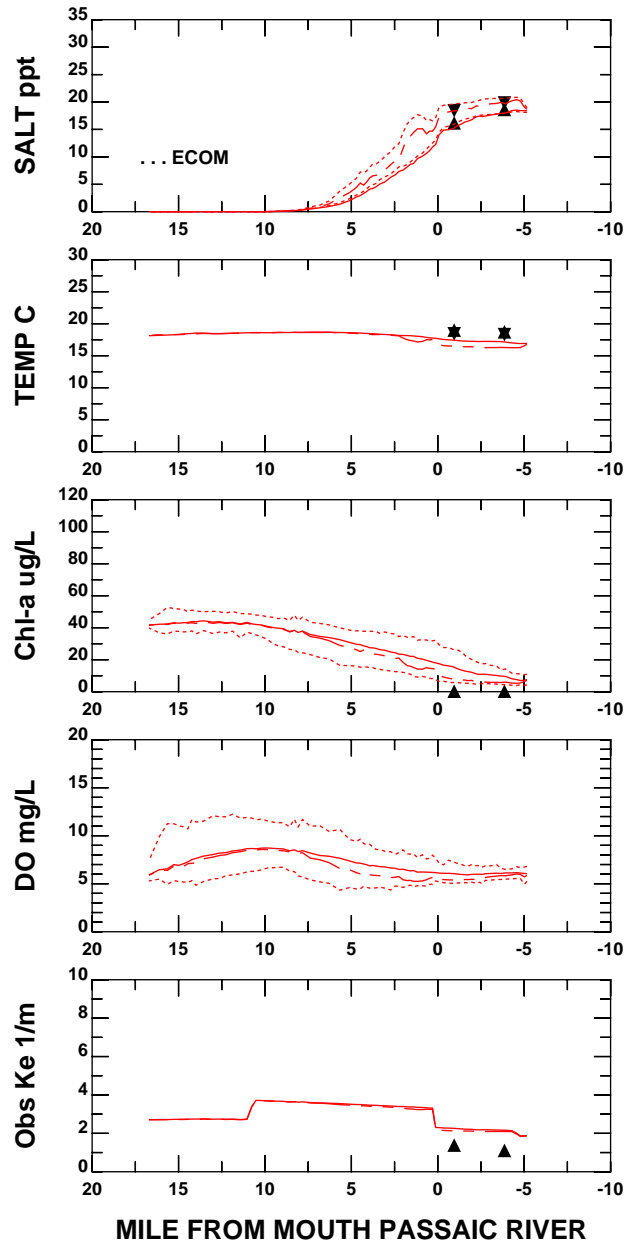
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



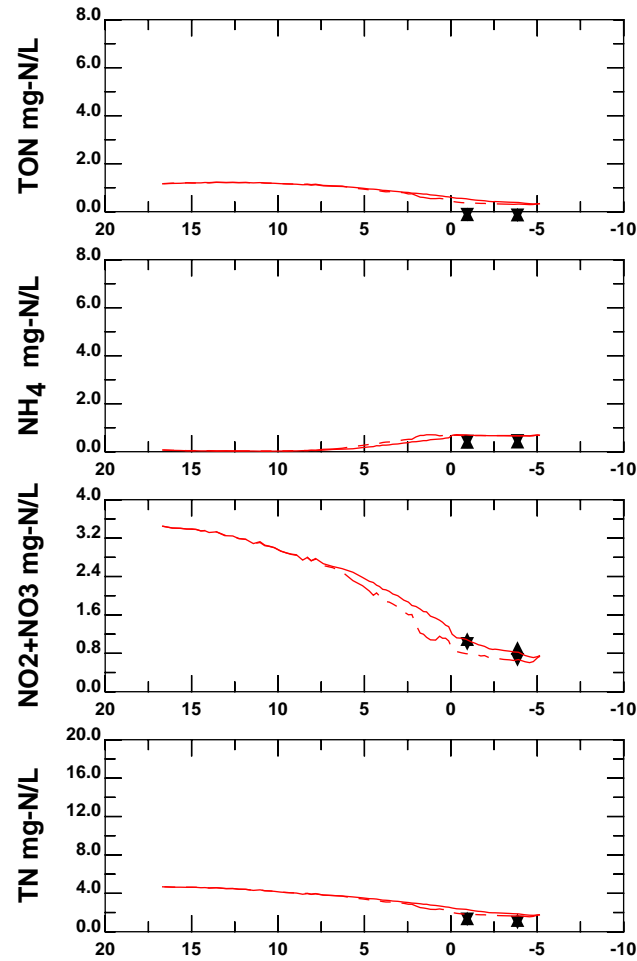
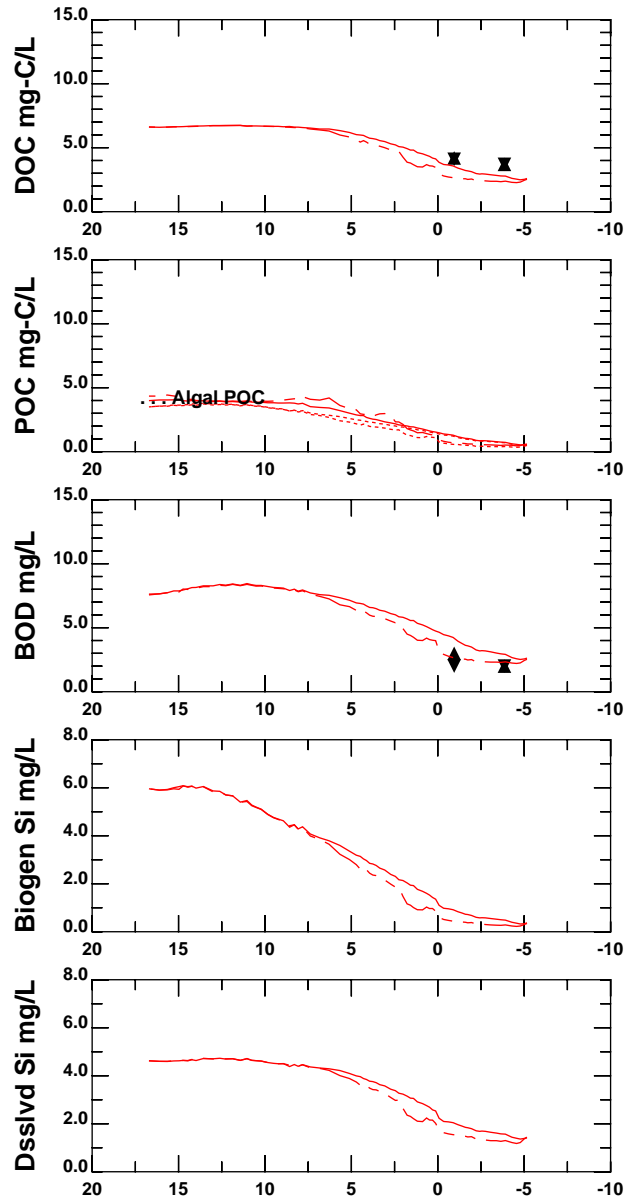
**DATA**  
NJHDG Jun 08, 2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



DATA  
NJHDG Jun 08,2009

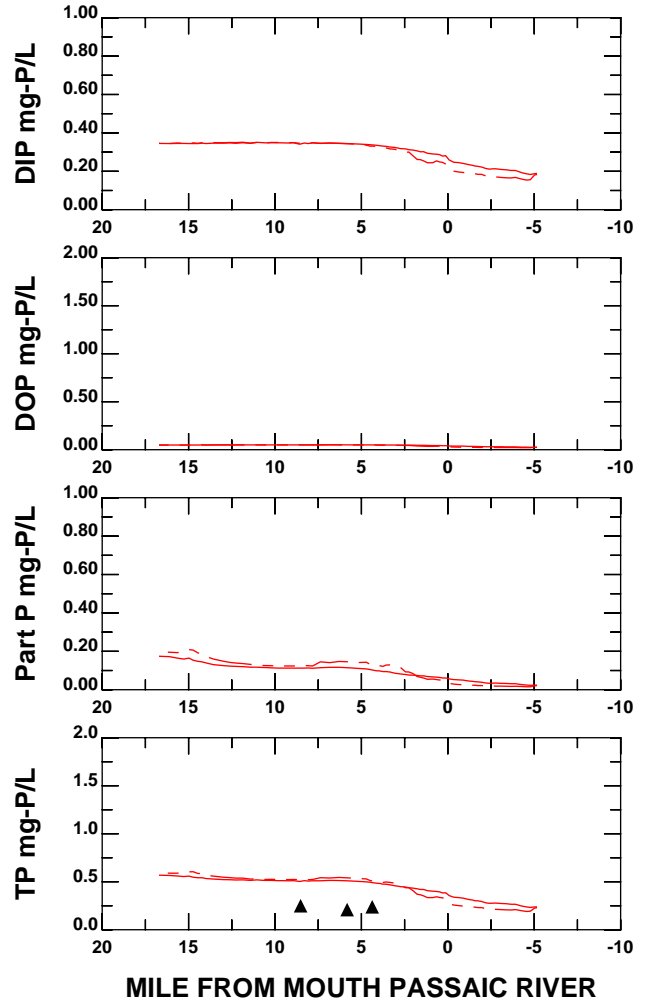
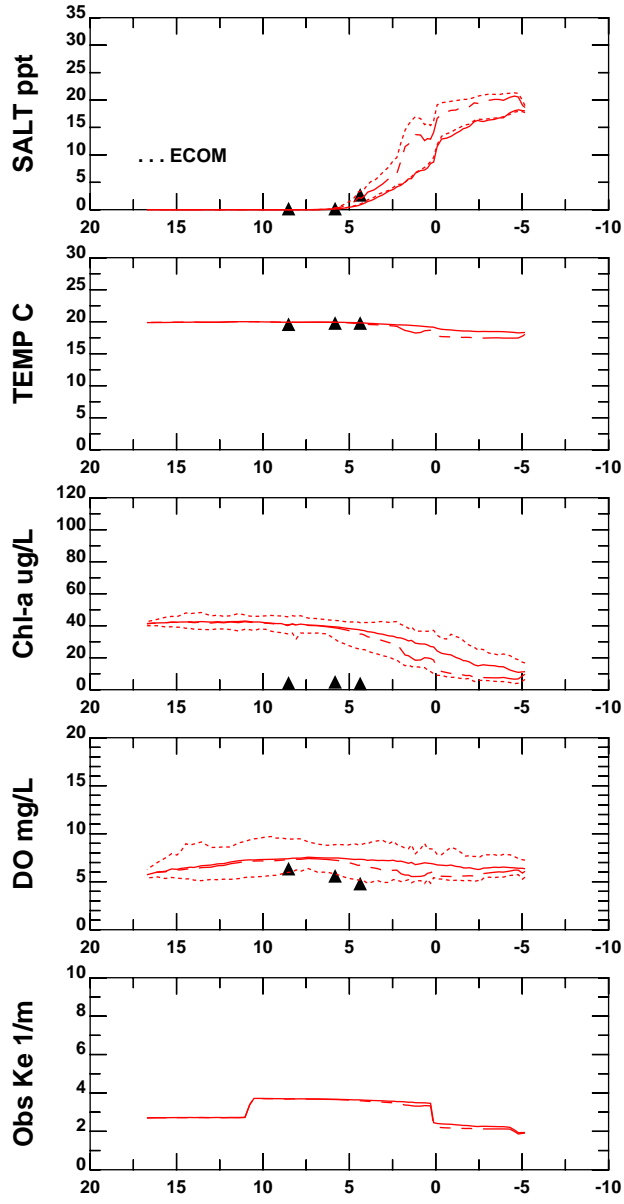
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



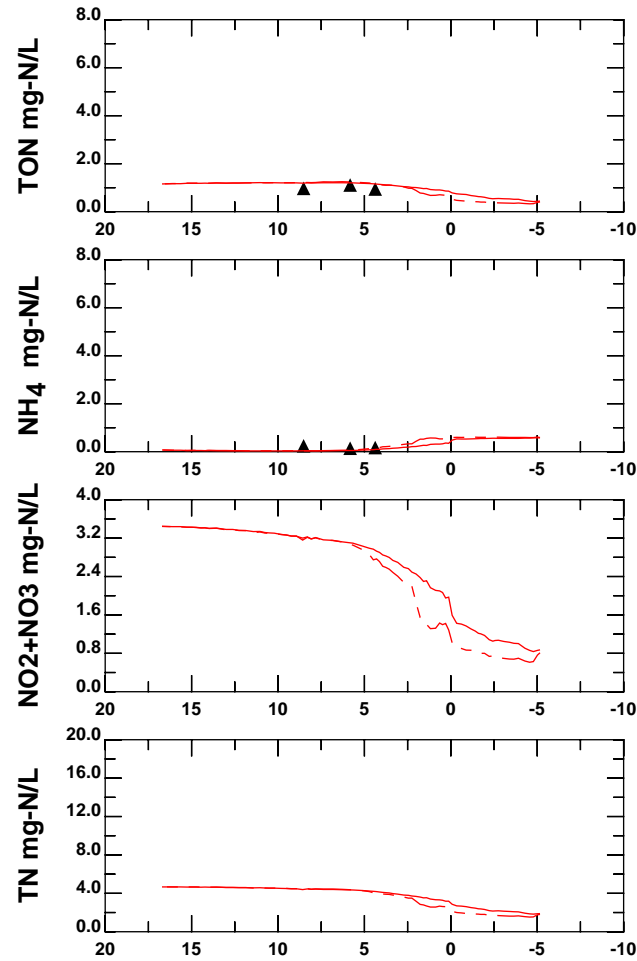
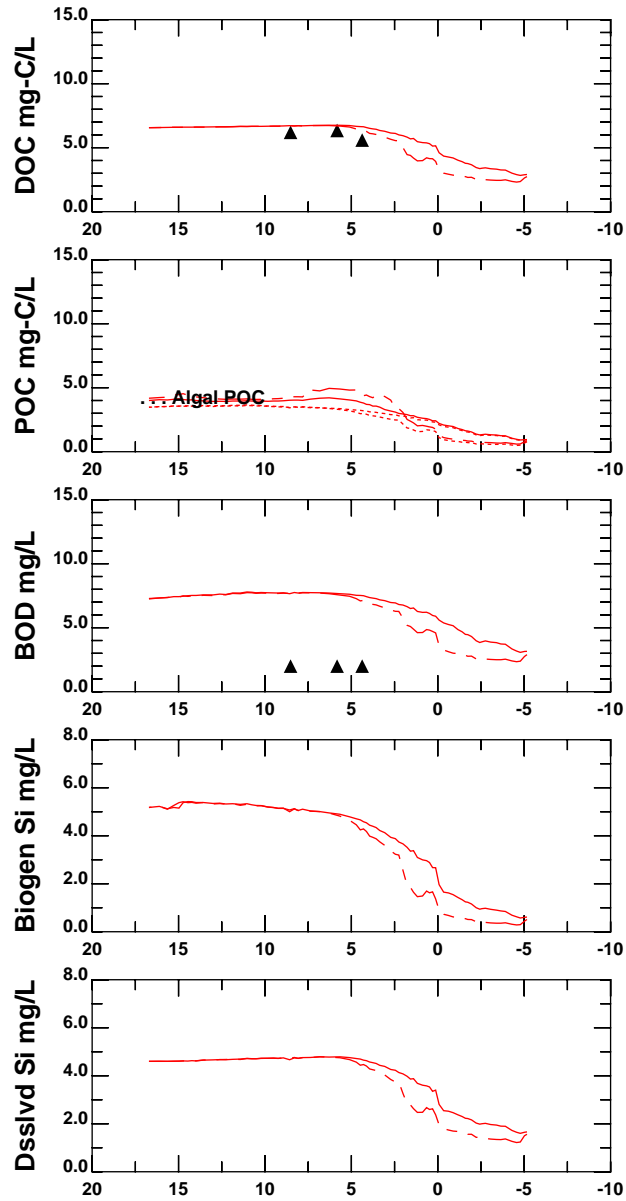
**DATA**  
NJHDG Jun 10, 2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



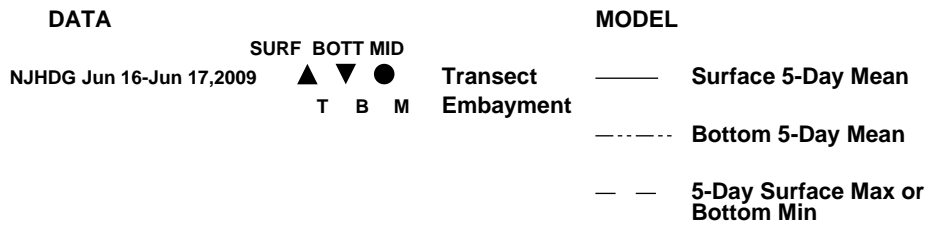
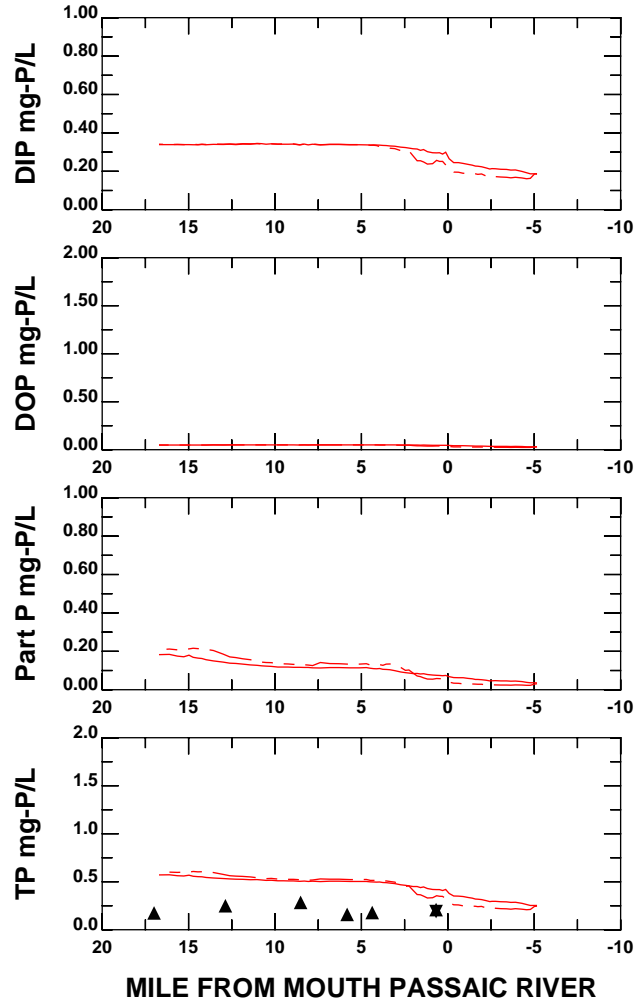
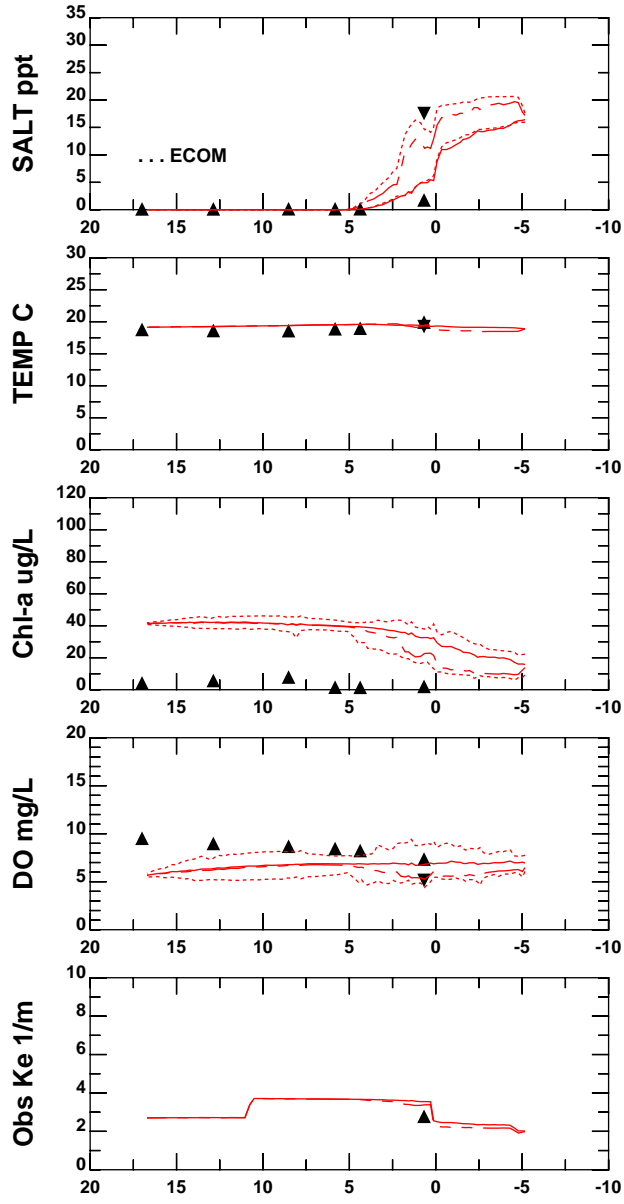
DATA  
NJHDG Jun 10, 2009

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

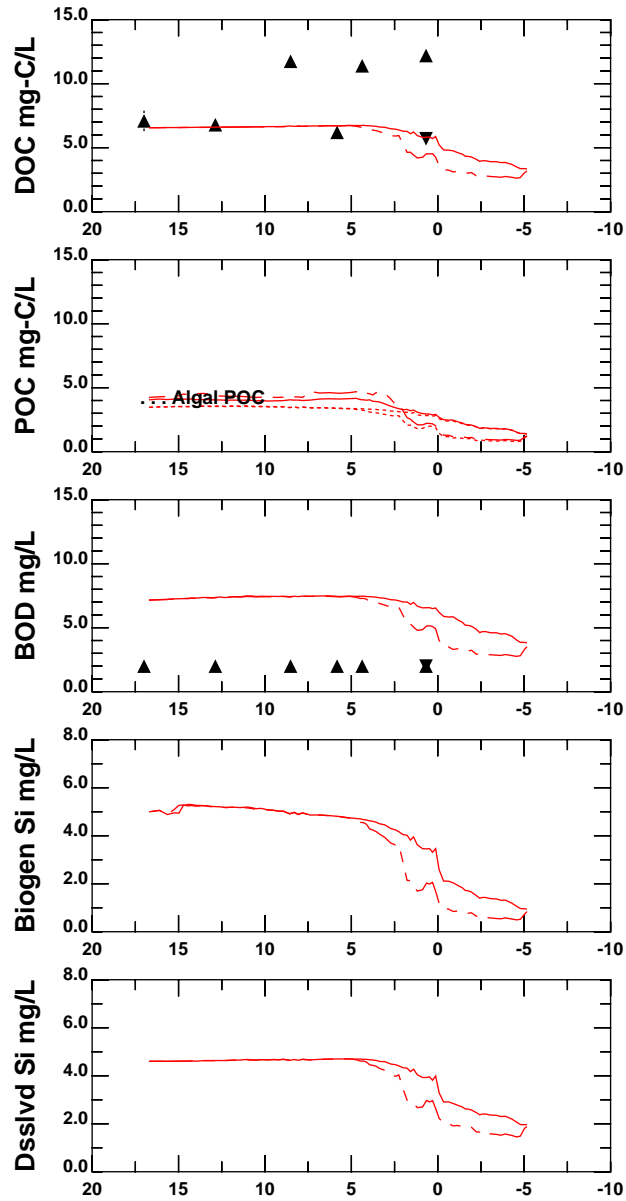
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

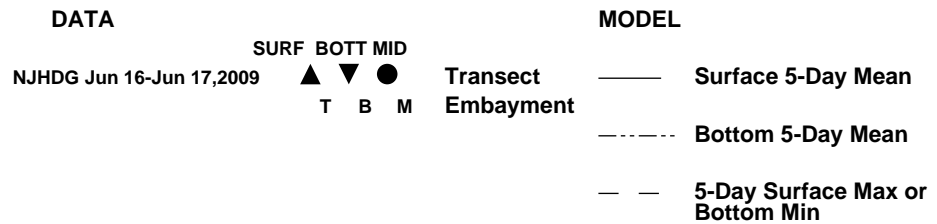
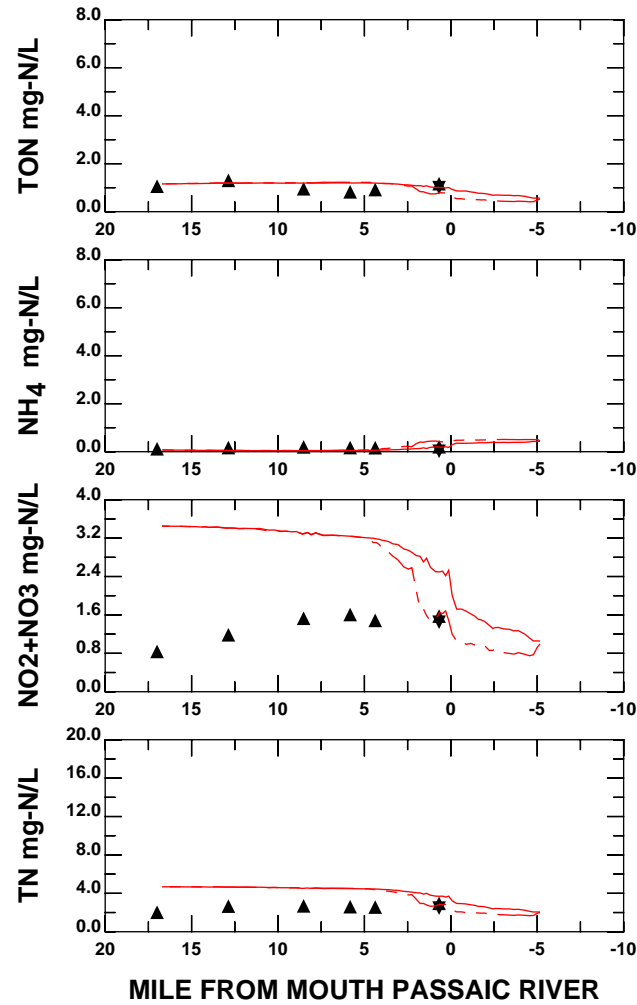


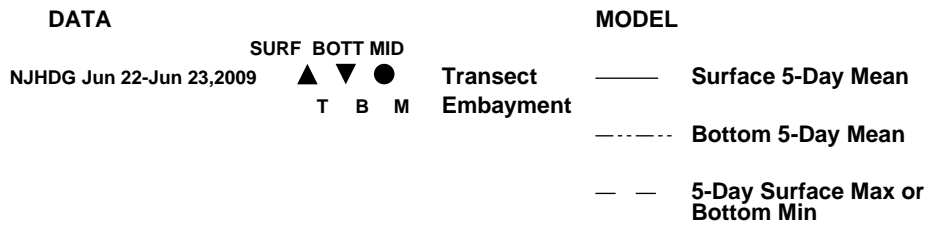
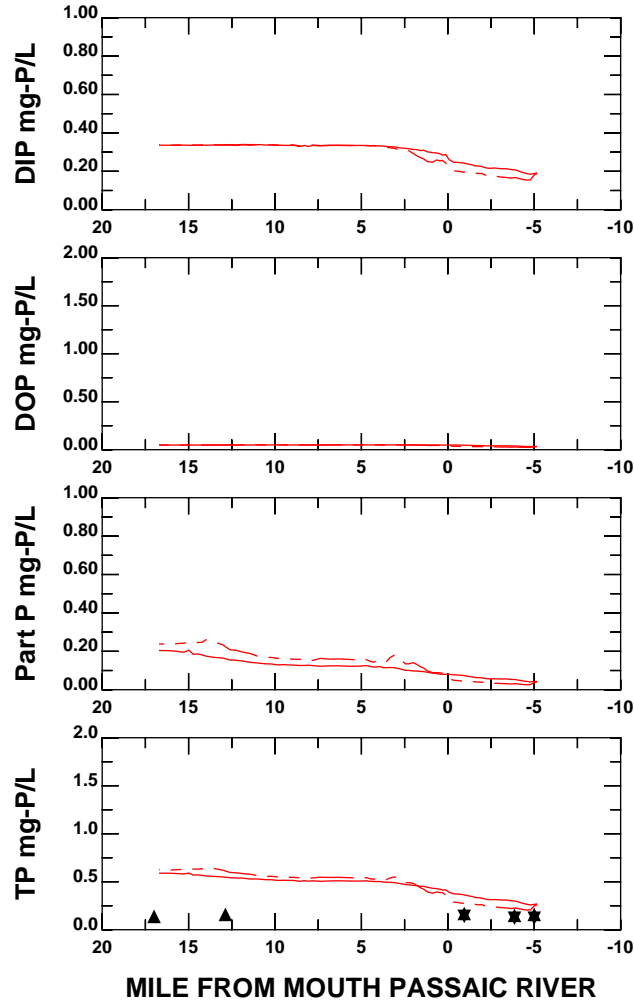
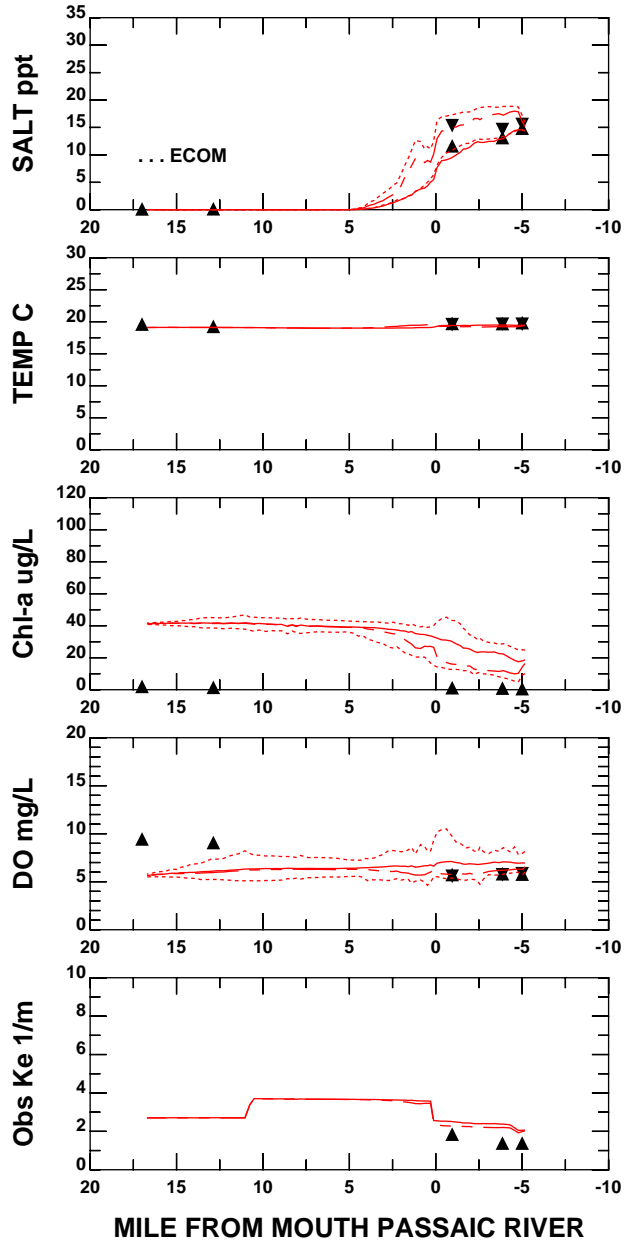
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



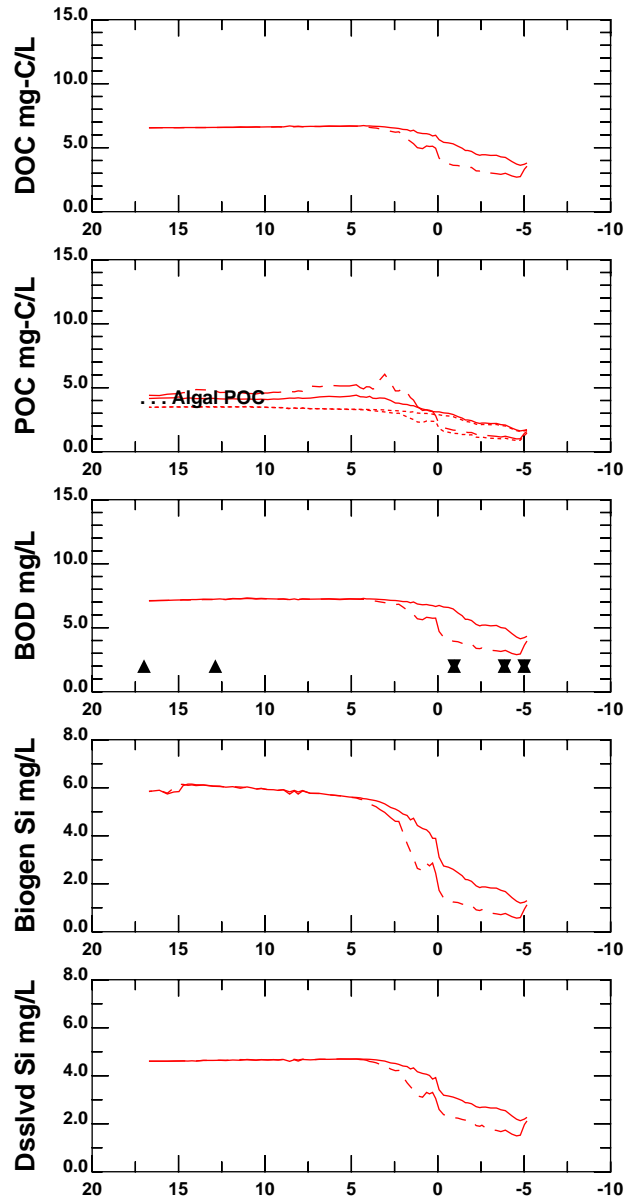


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809





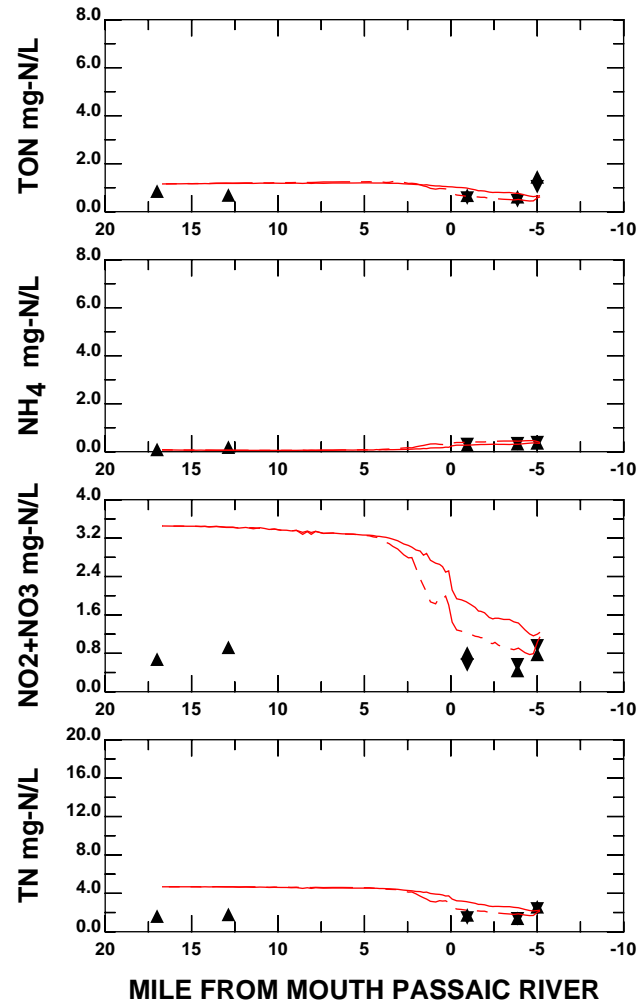
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



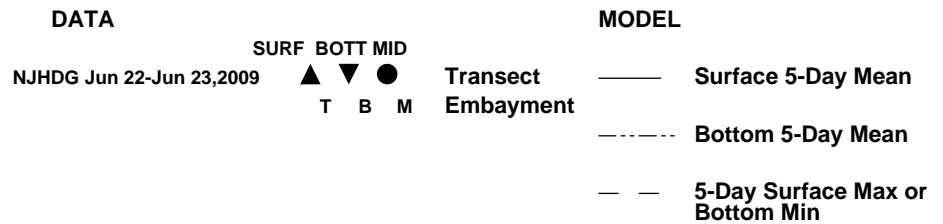
MILE FROM MOUTH PASSAIC RIVER

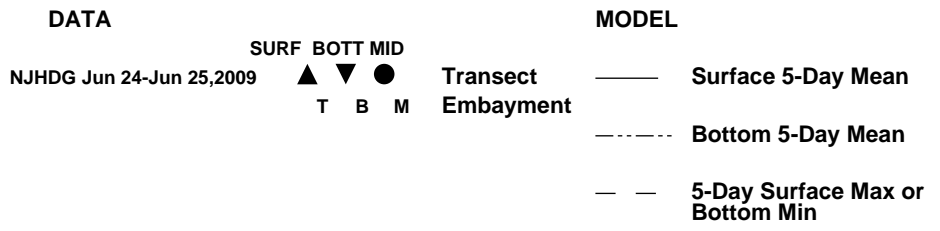
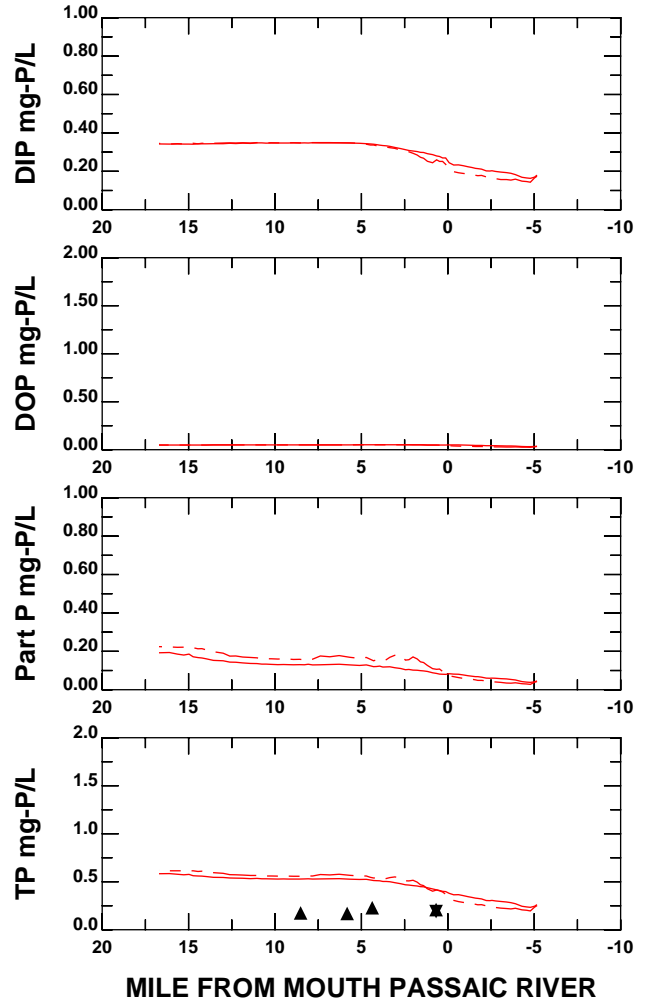
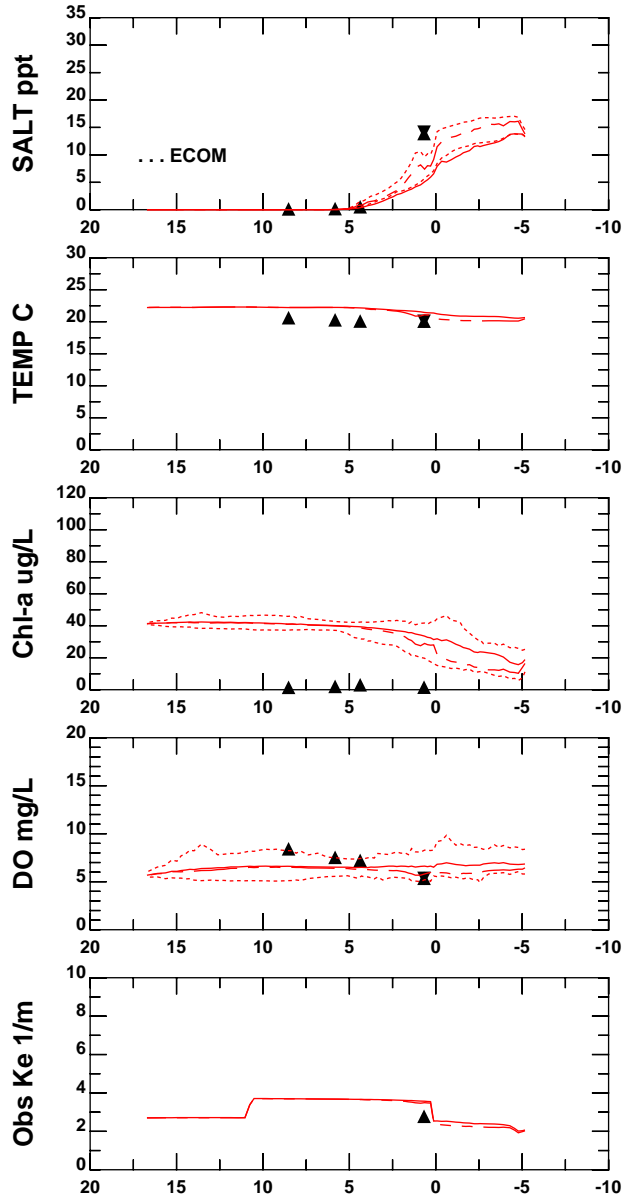
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

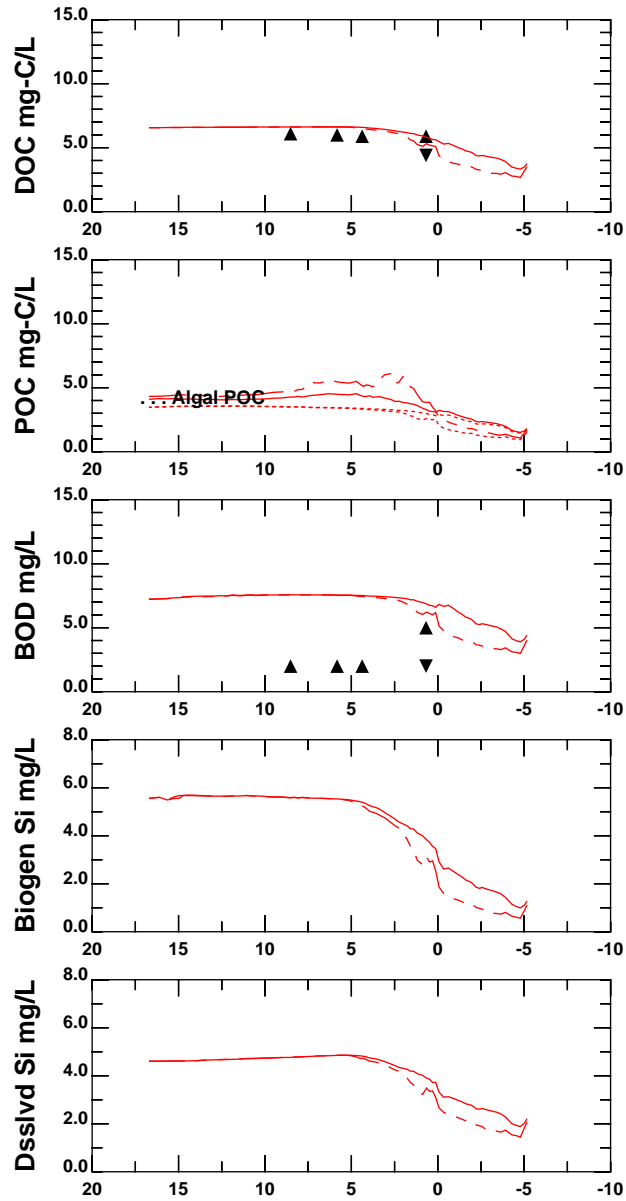


MILE FROM MOUTH PASSAIC RIVER





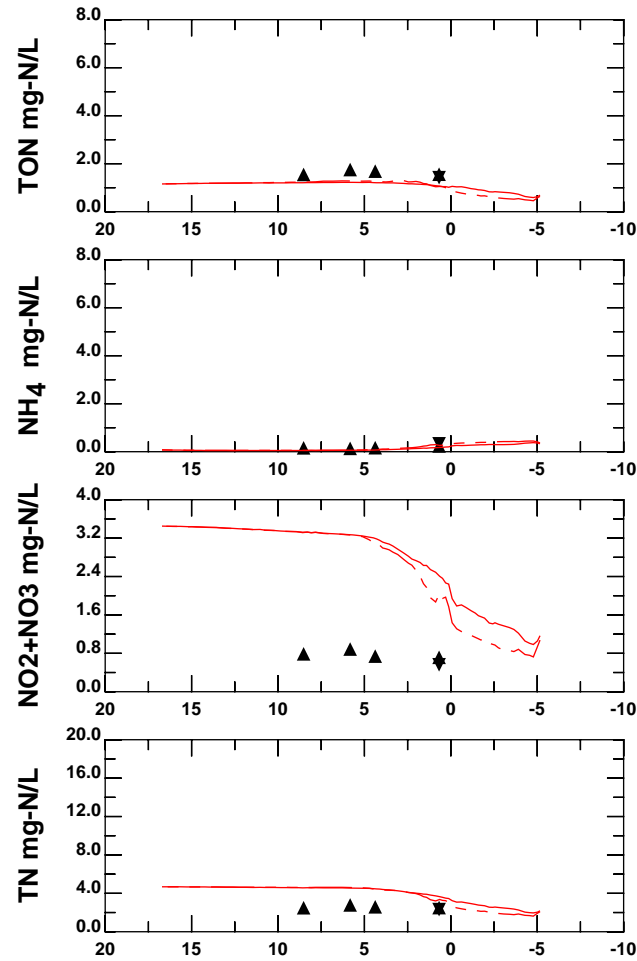
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



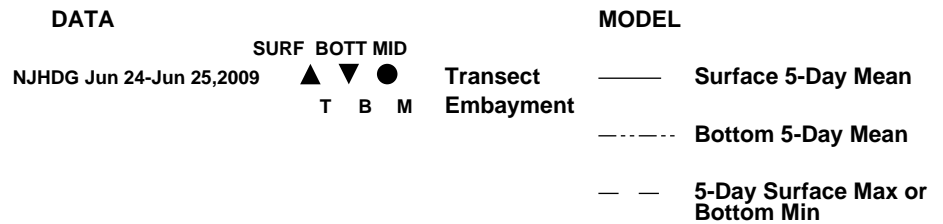
MILE FROM MOUTH PASSAIC RIVER

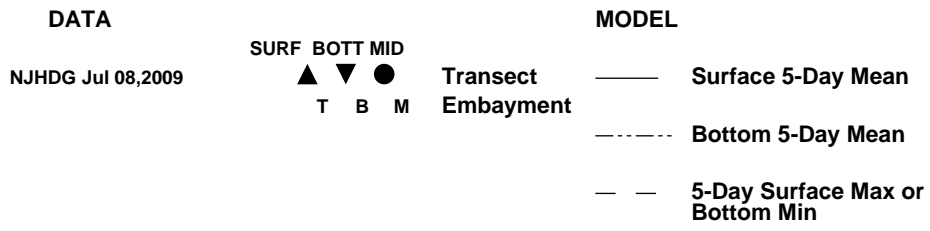
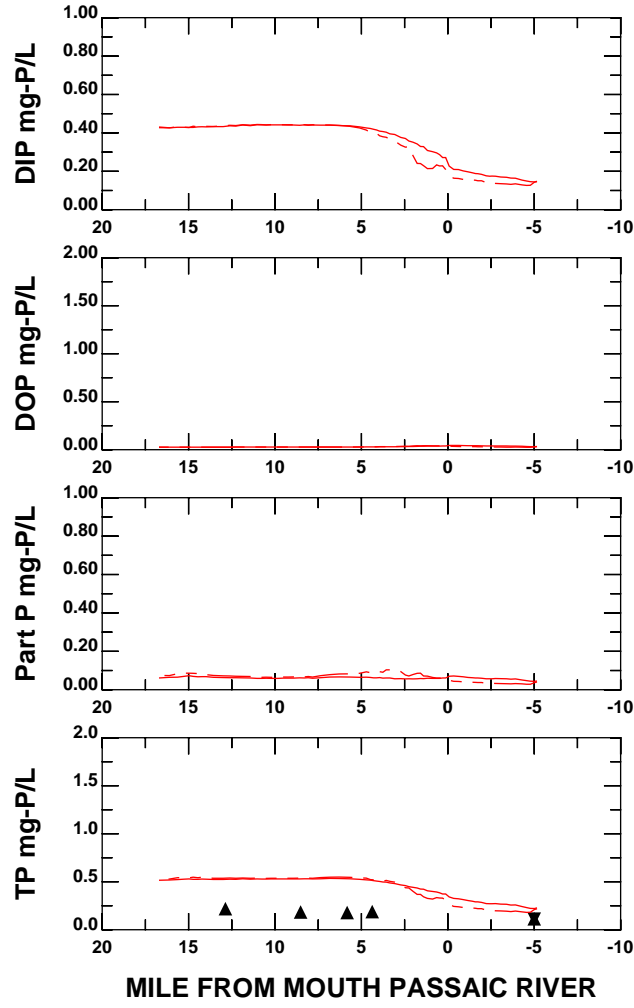
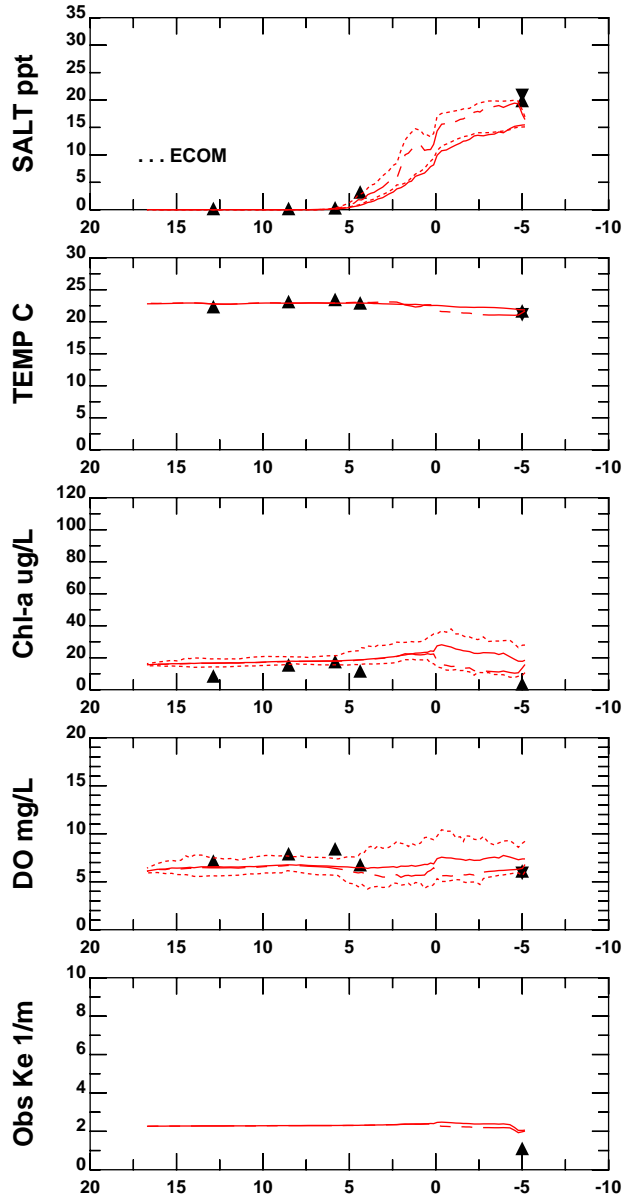
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

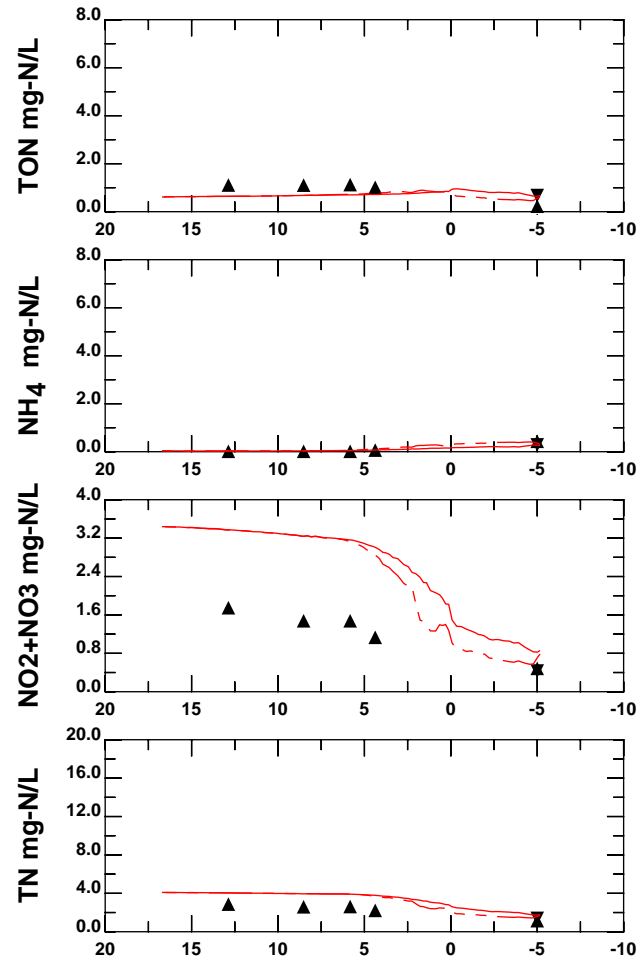
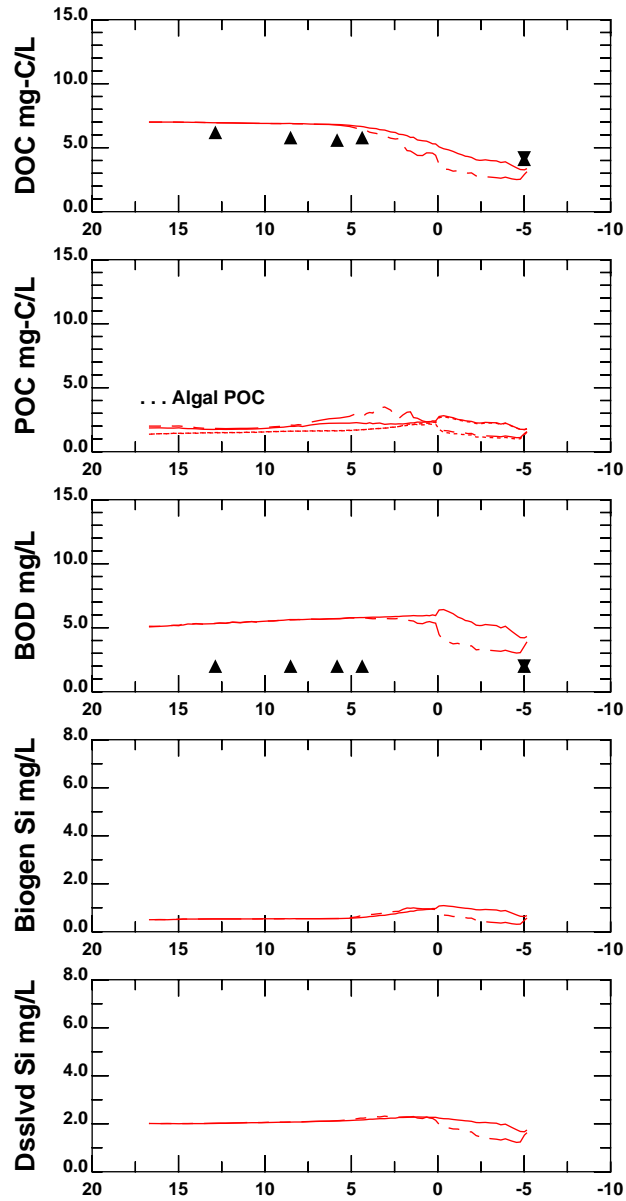


MILE FROM MOUTH PASSAIC RIVER





**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



DATA

NJHDG Jul 08, 2009

SURF BOTT MID

▲ ▼ ●  
T B M

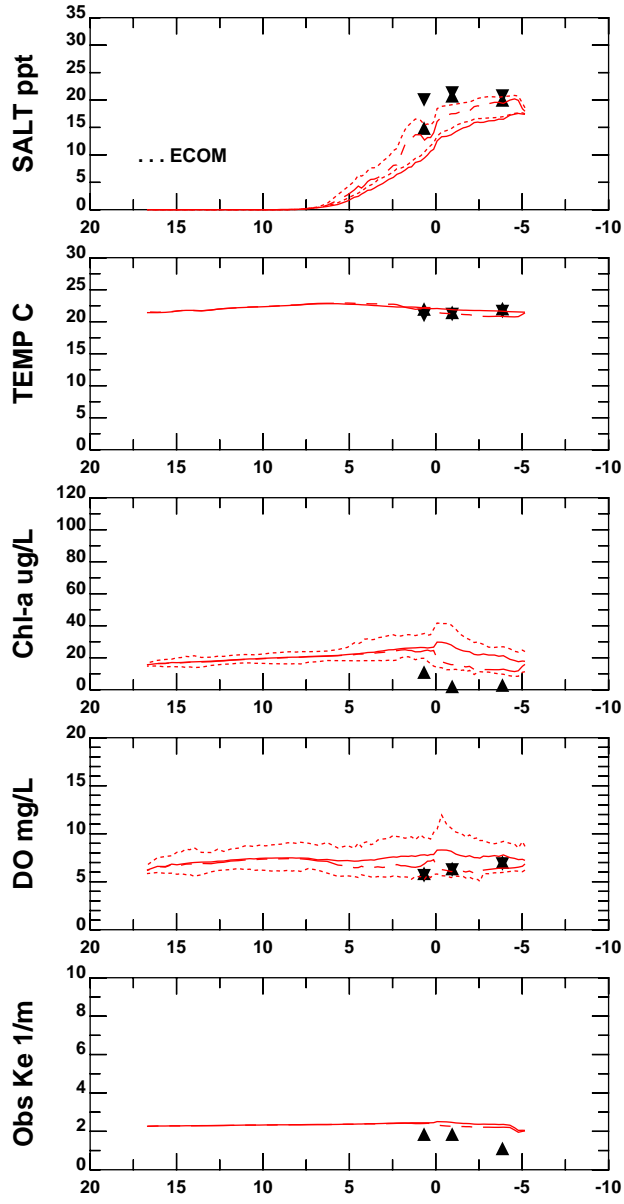
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

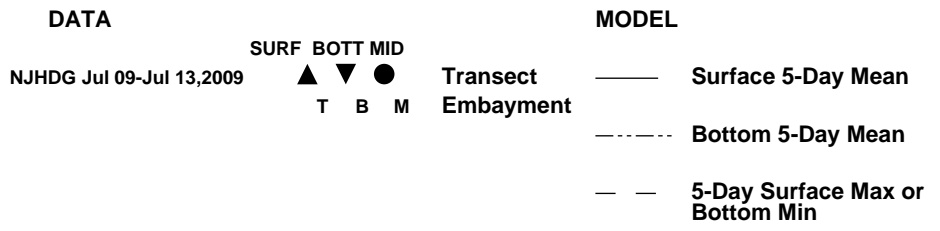
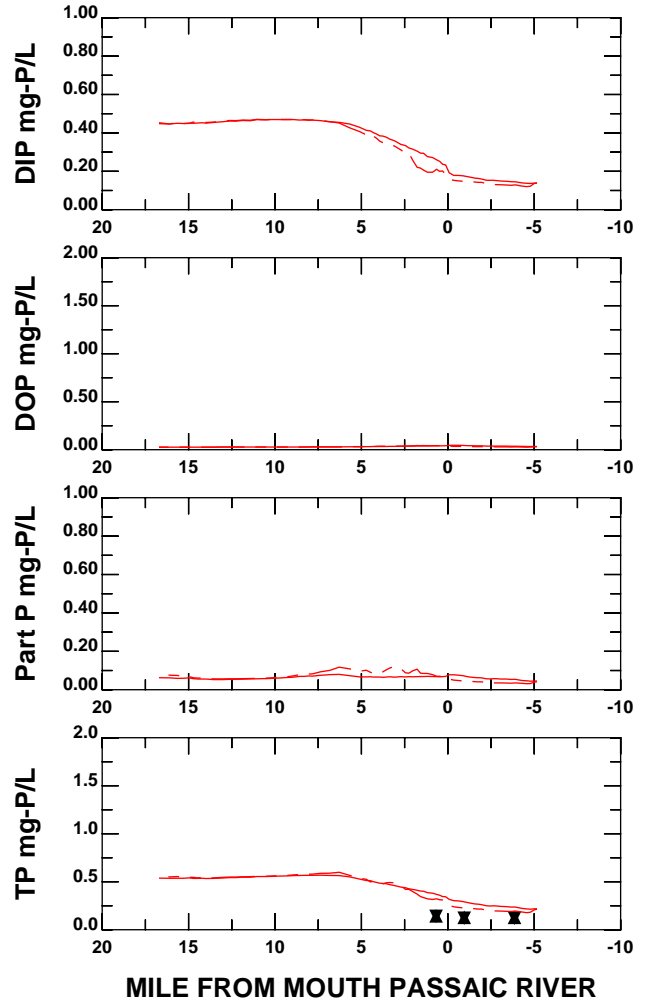
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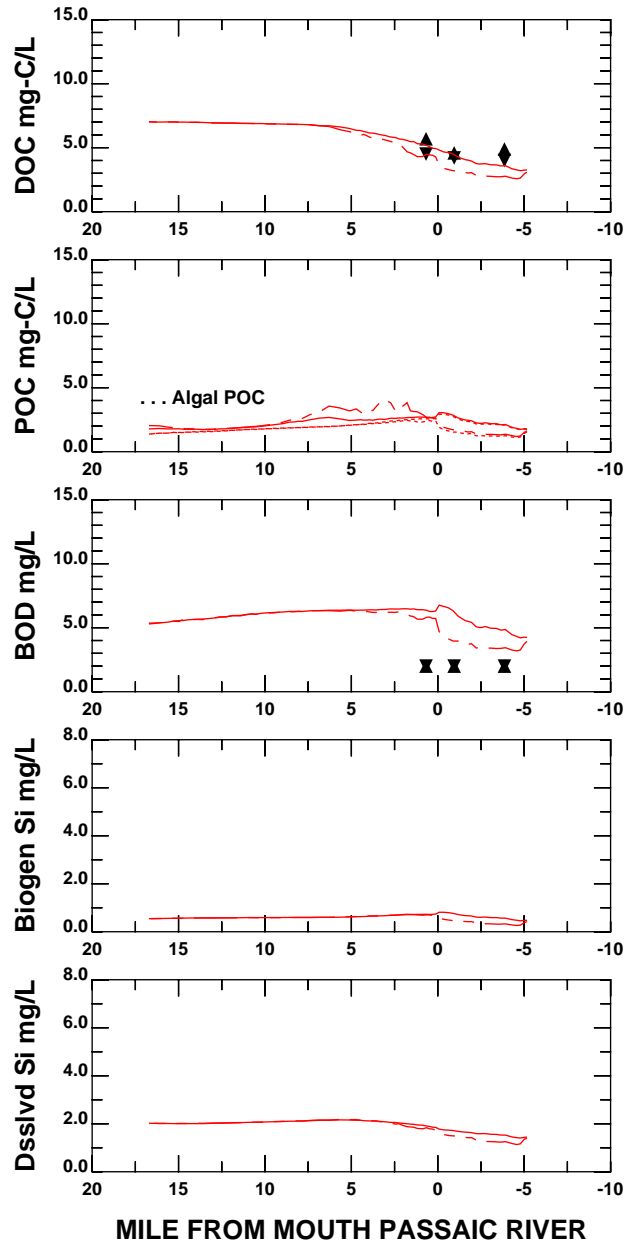
MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

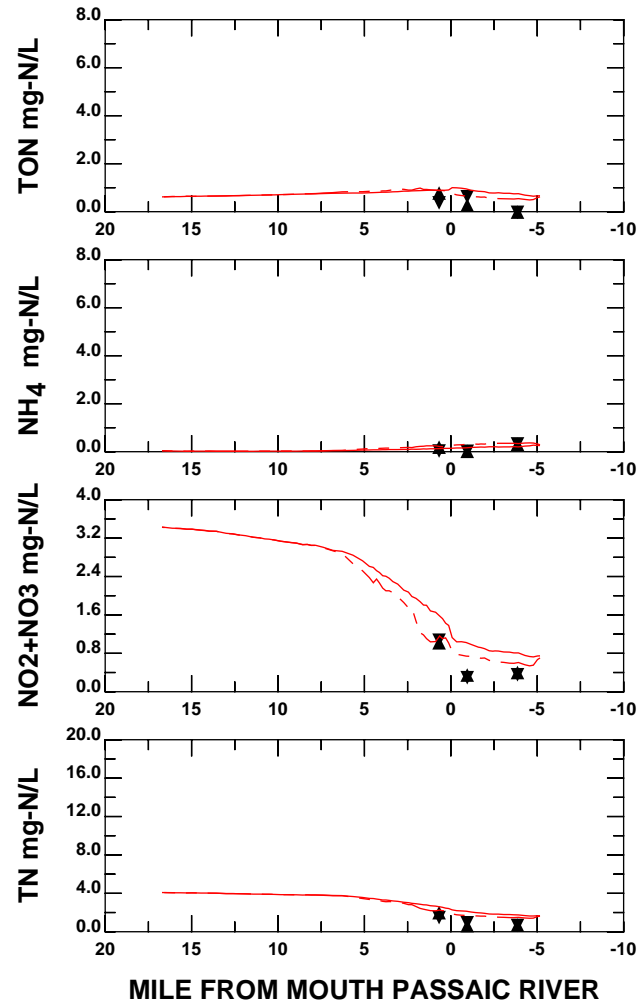


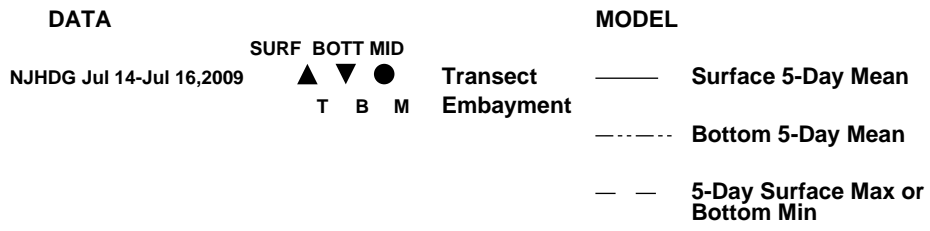
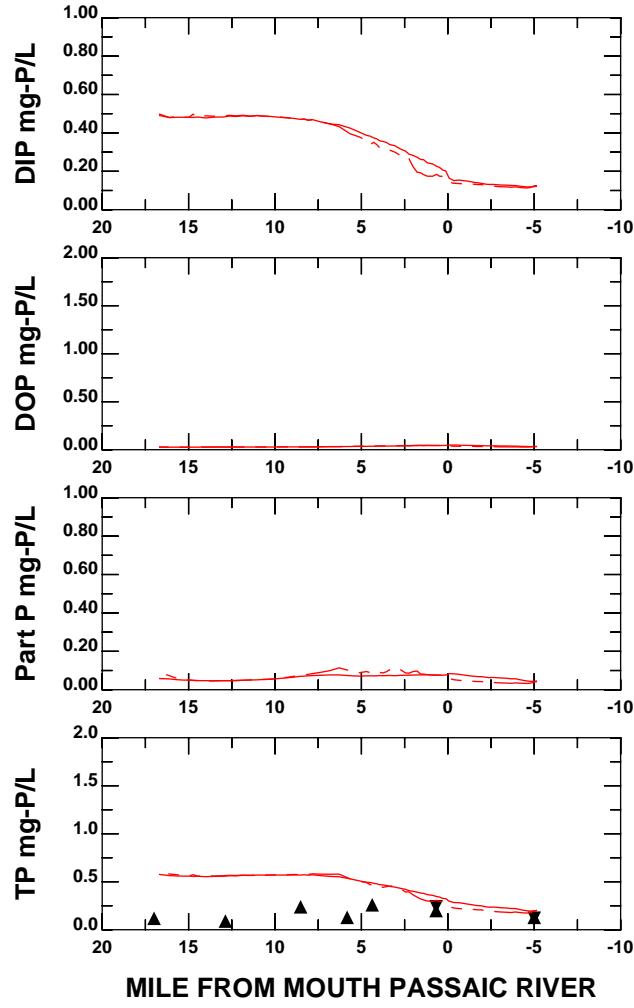
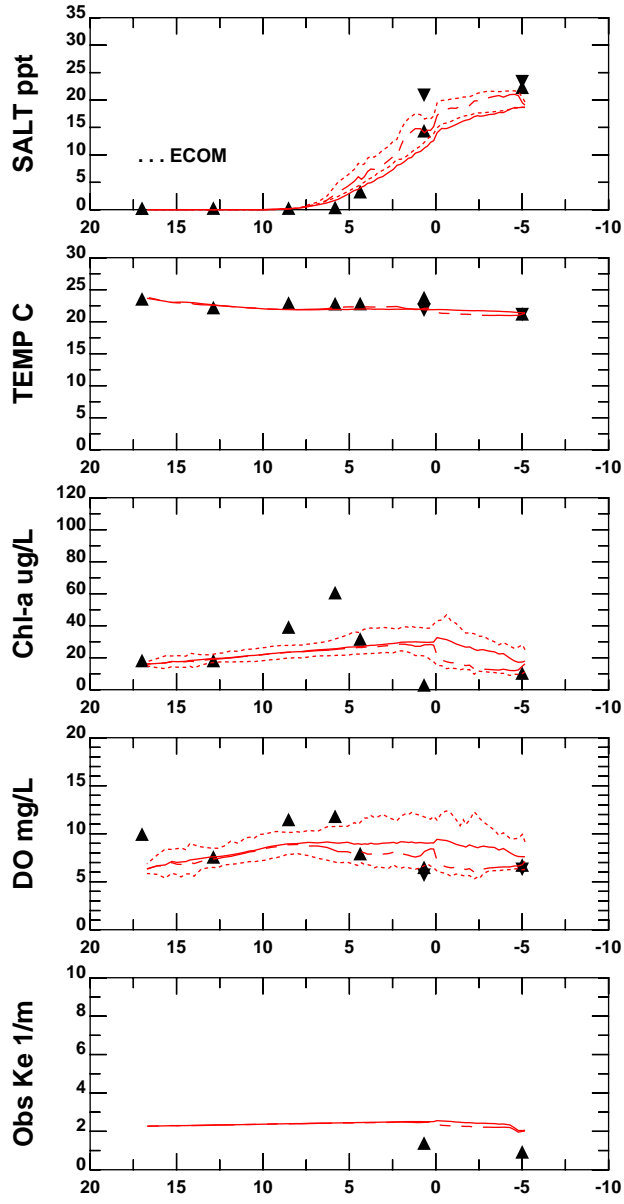




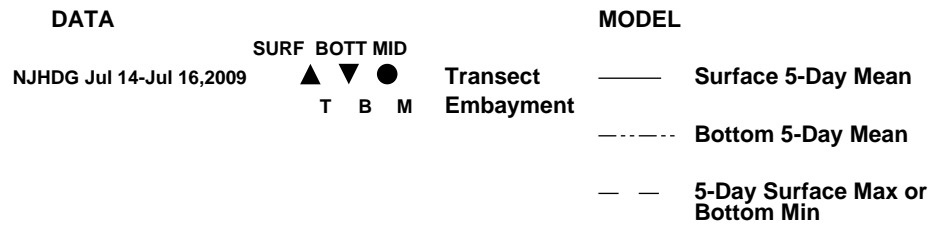
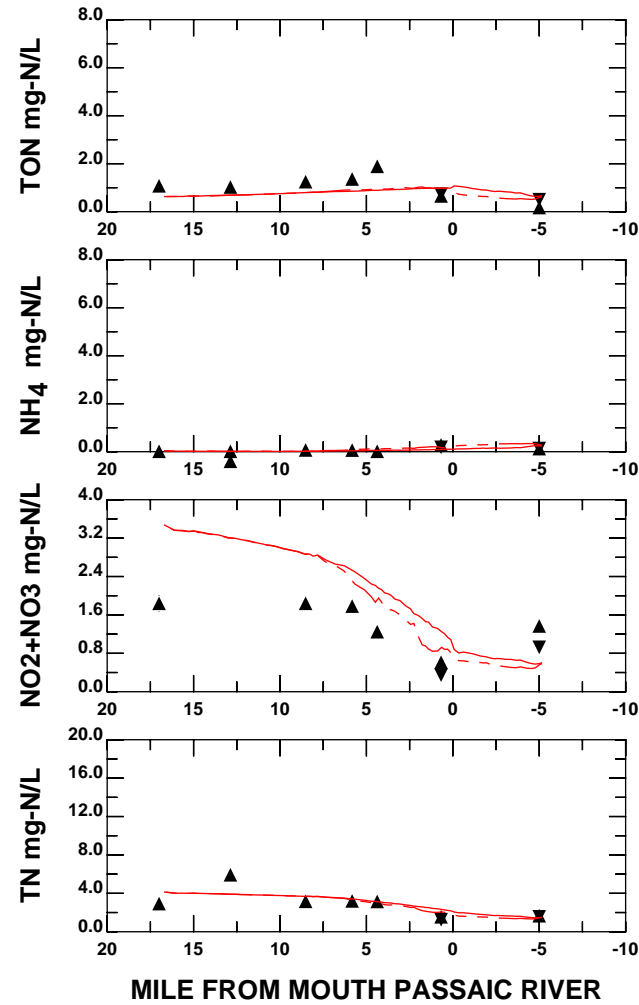
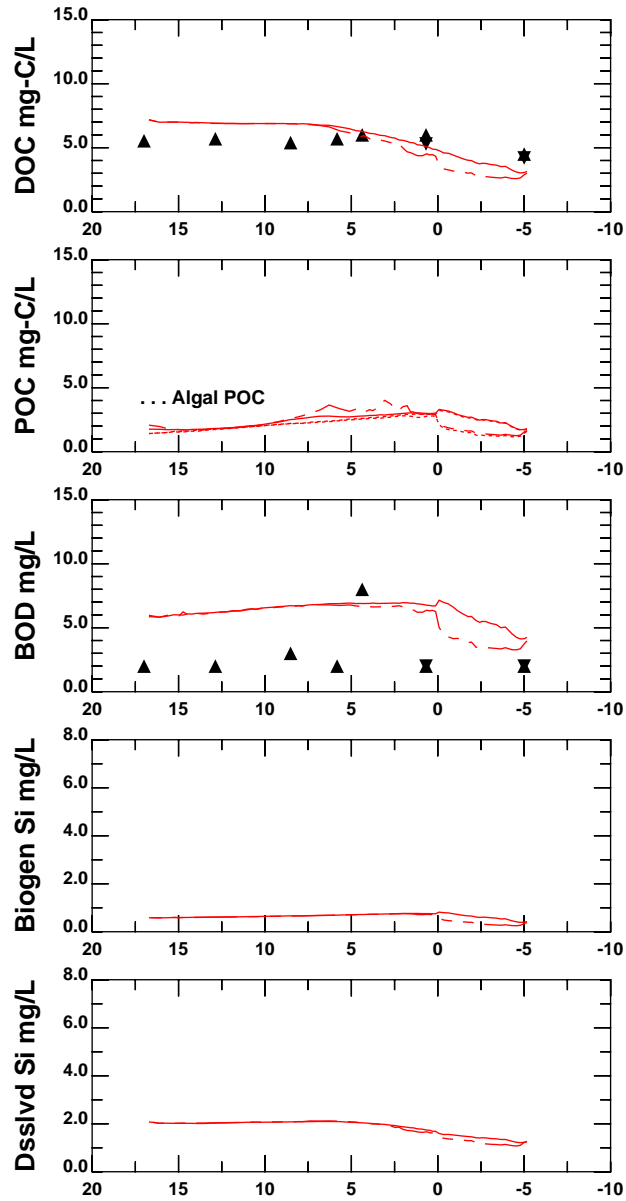
## PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

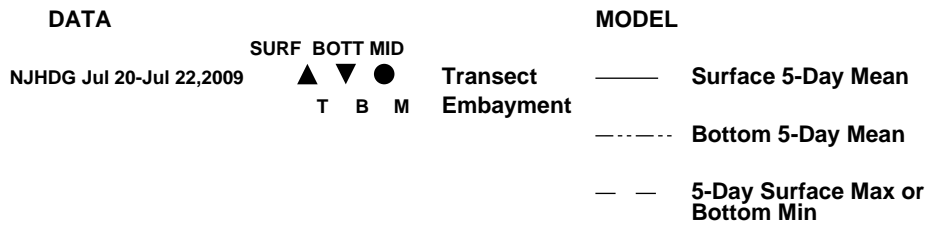
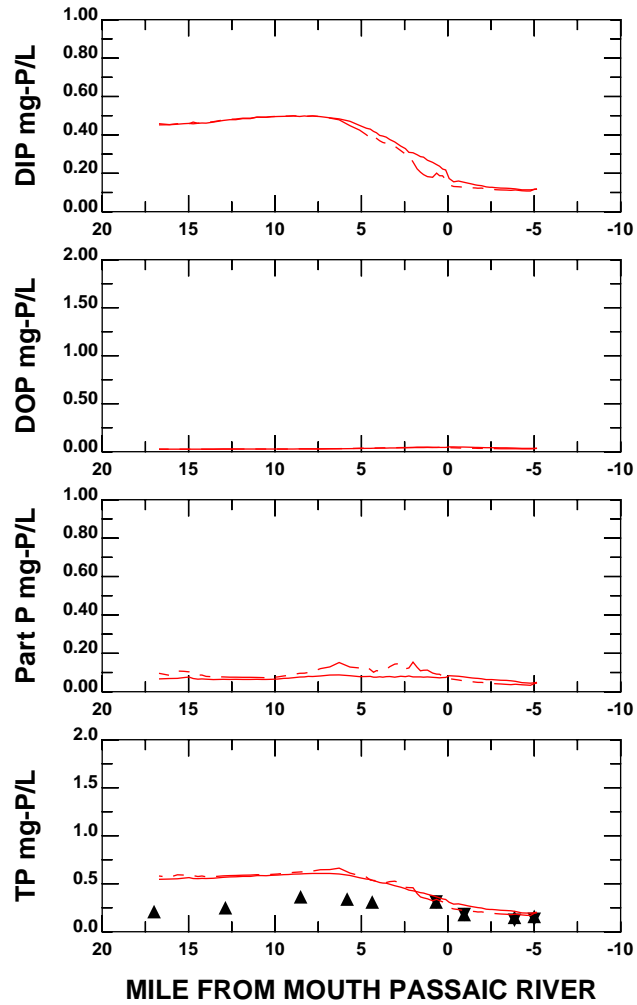
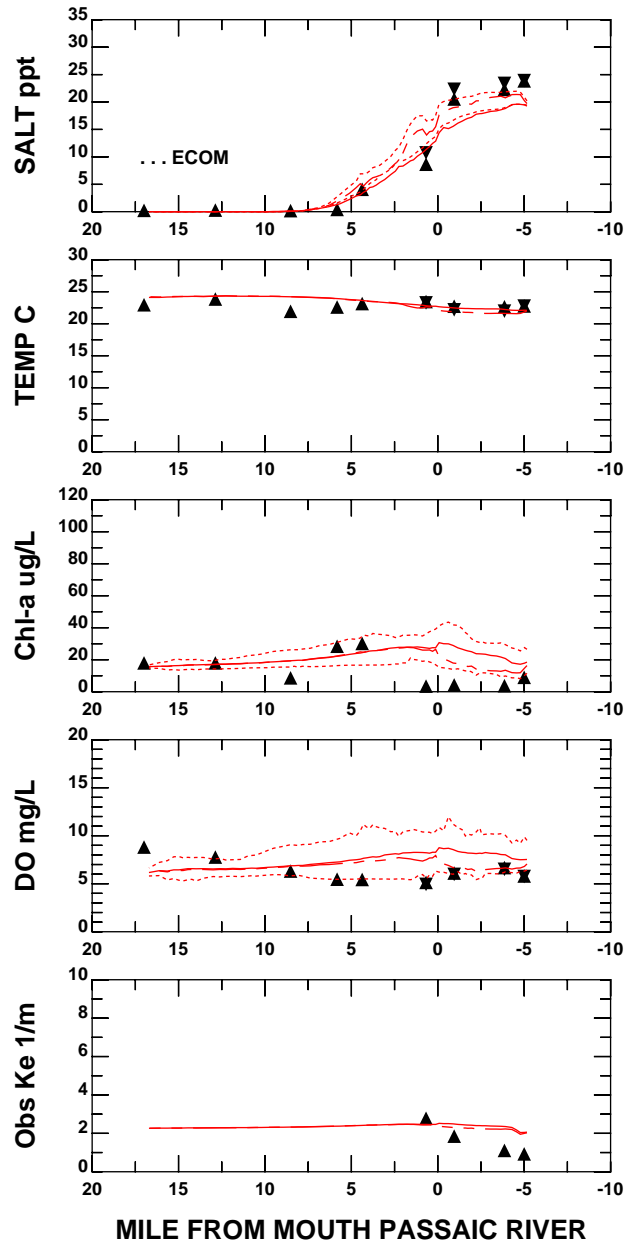




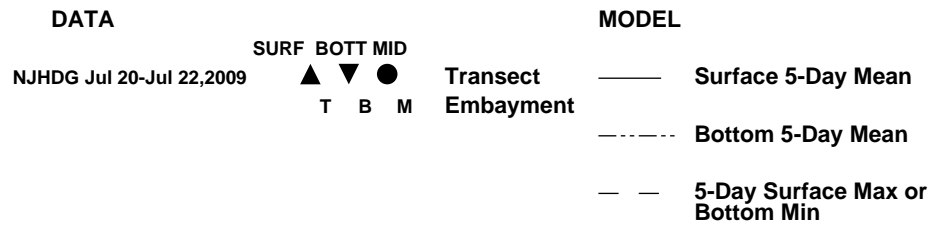
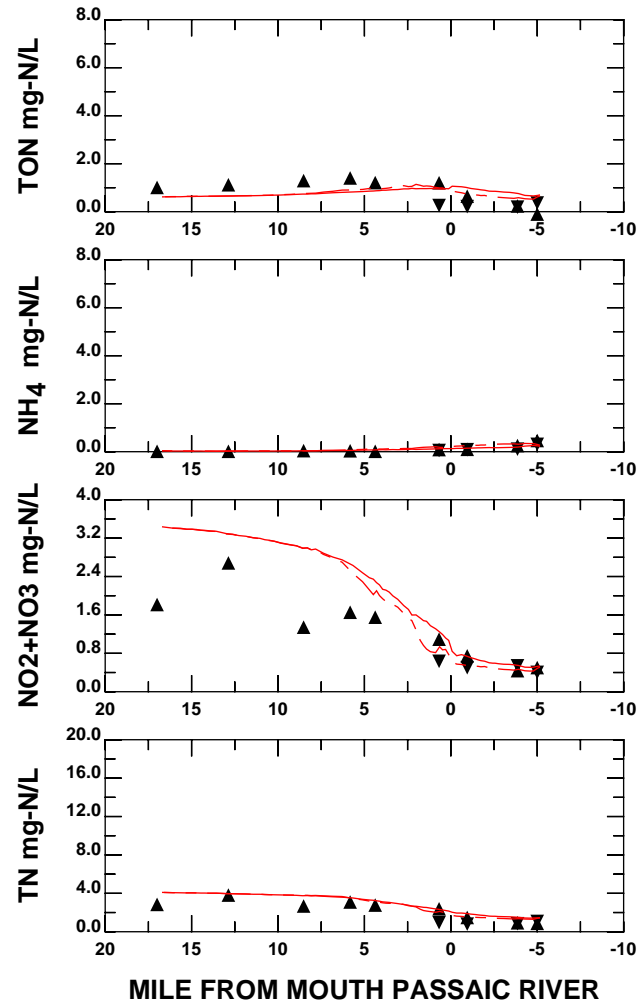
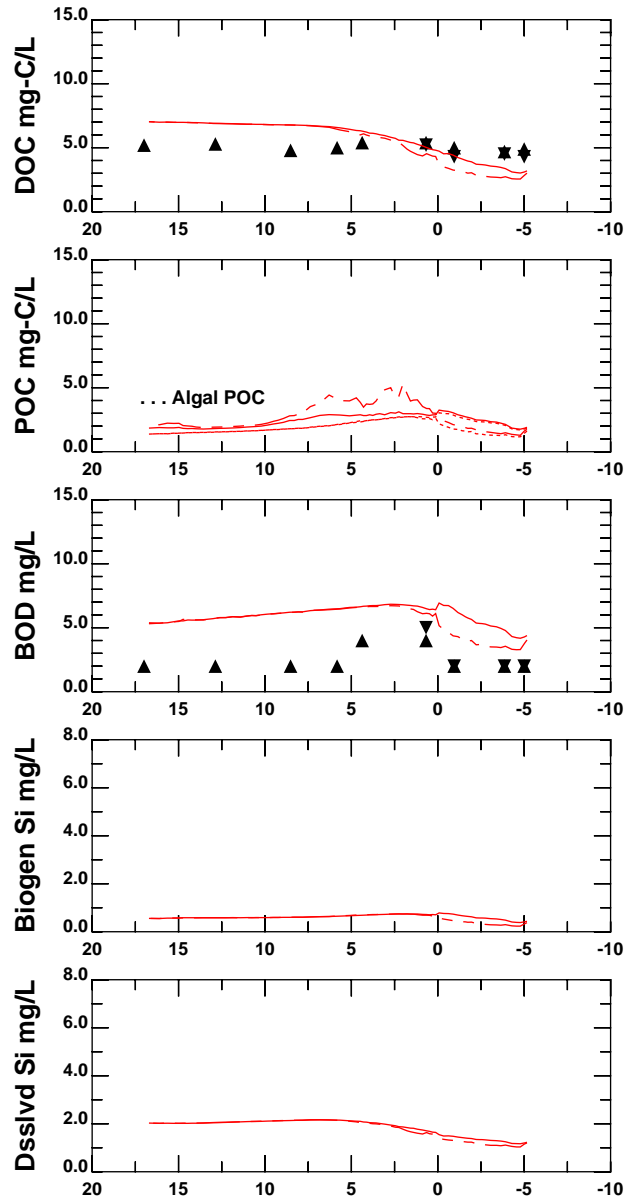
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



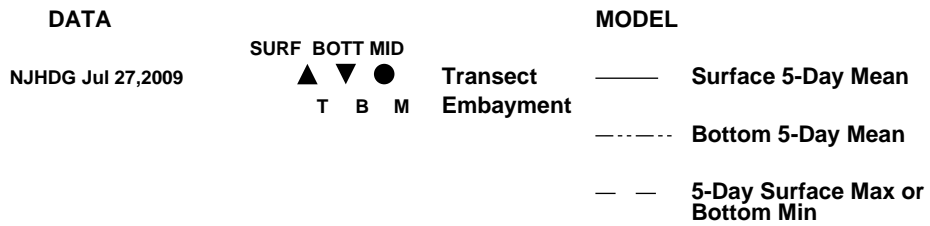
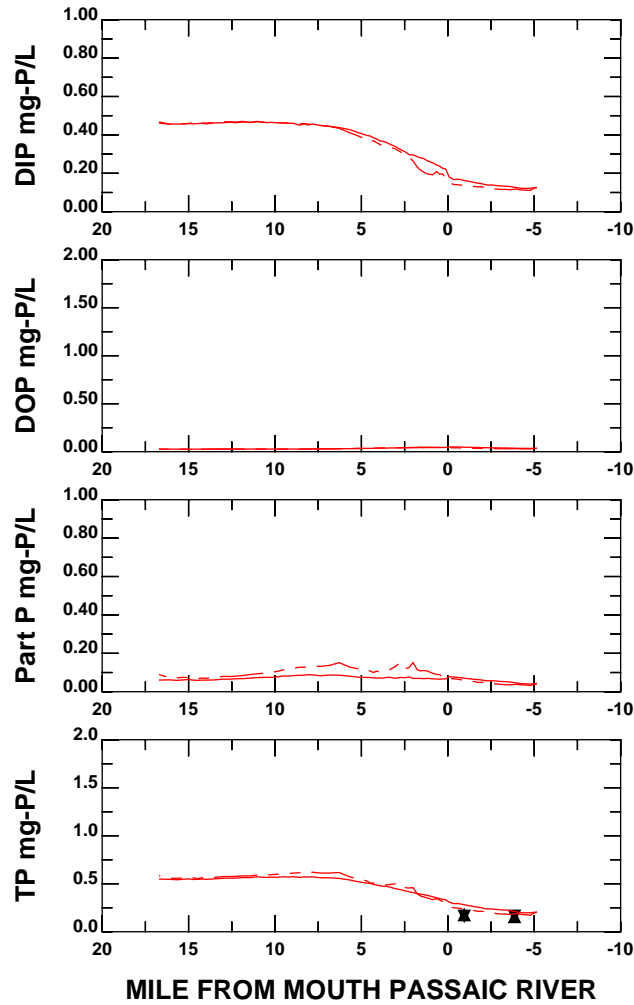
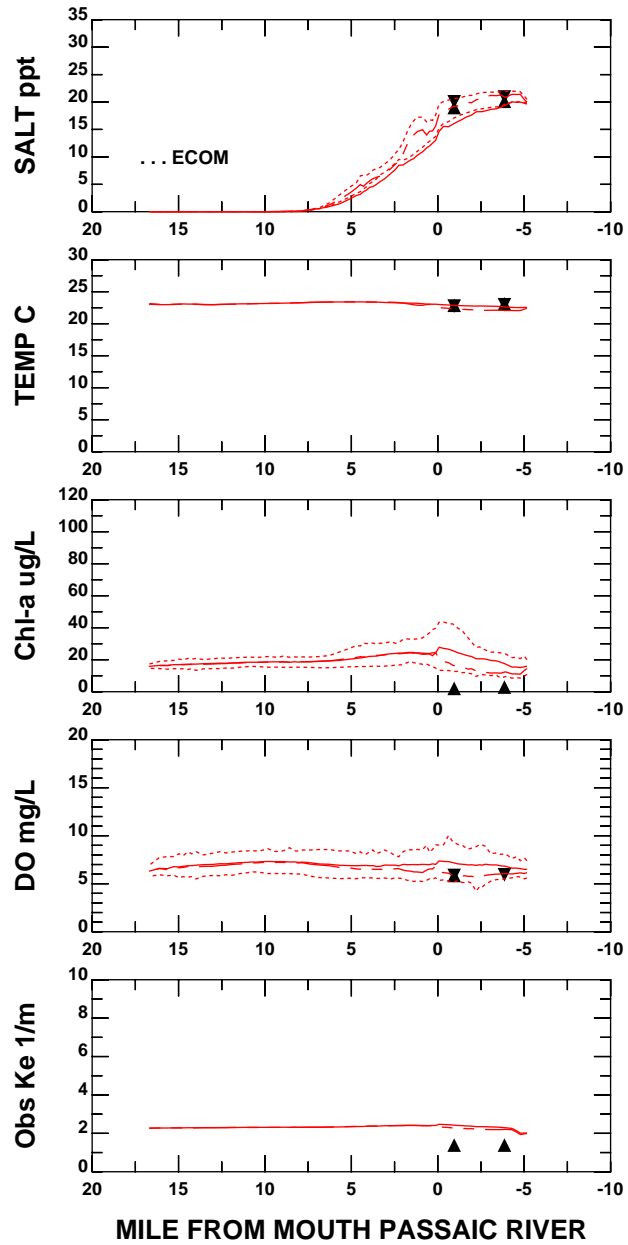
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



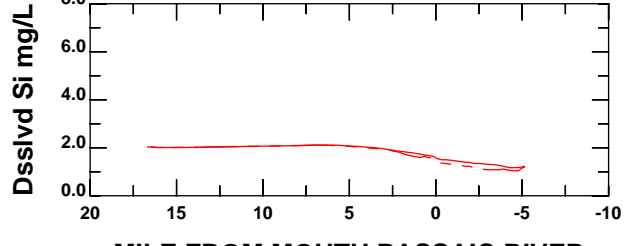
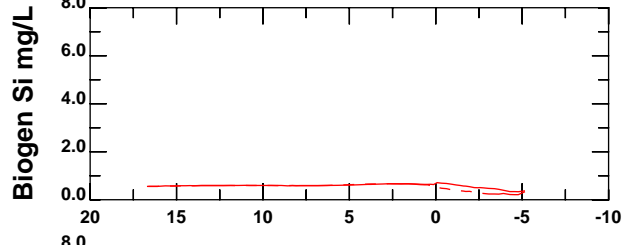
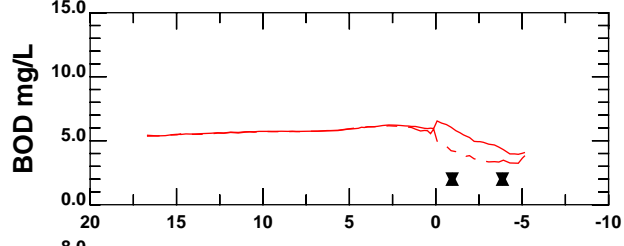
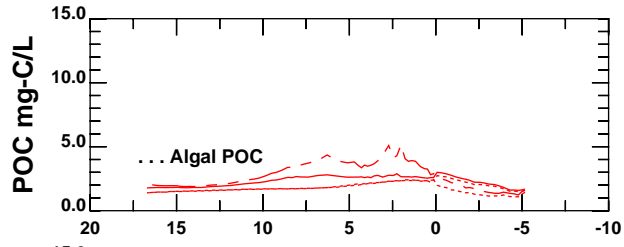
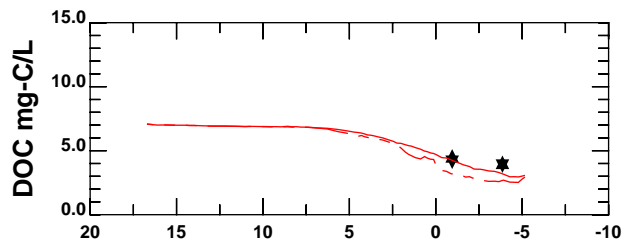
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



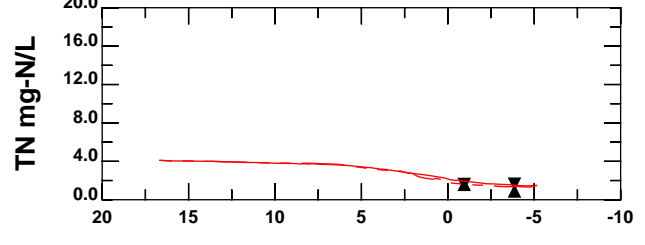
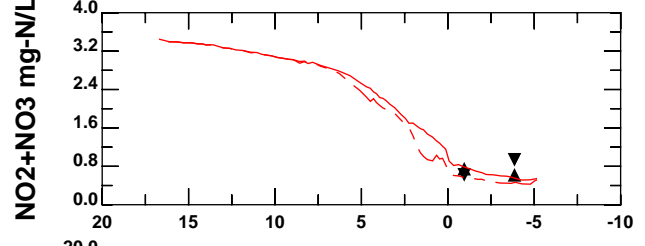
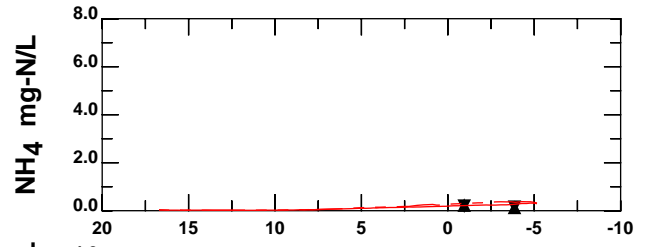
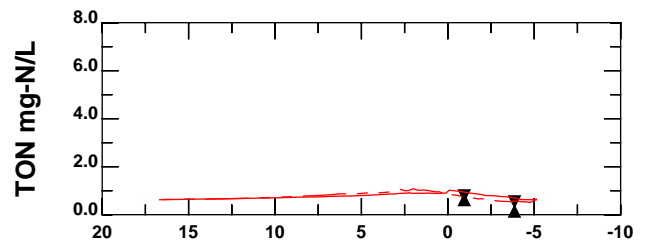
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



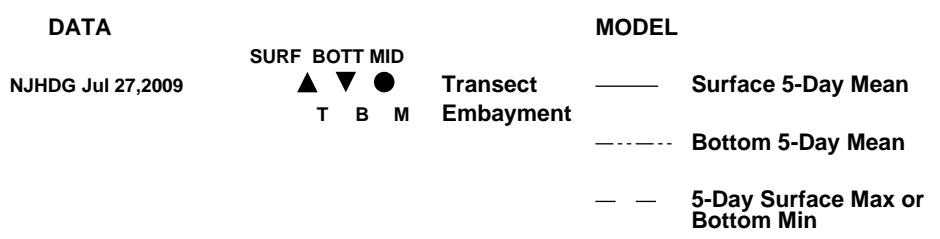
MILE FROM MOUTH PASSAIC RIVER

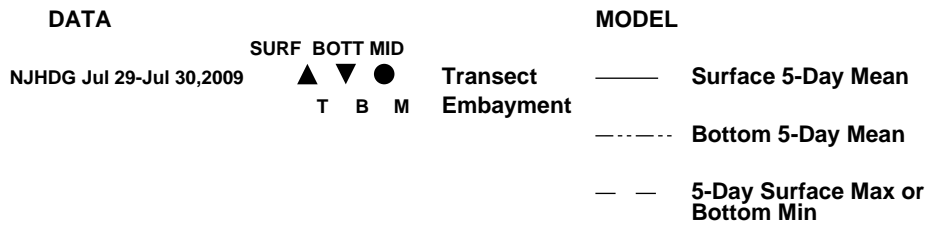
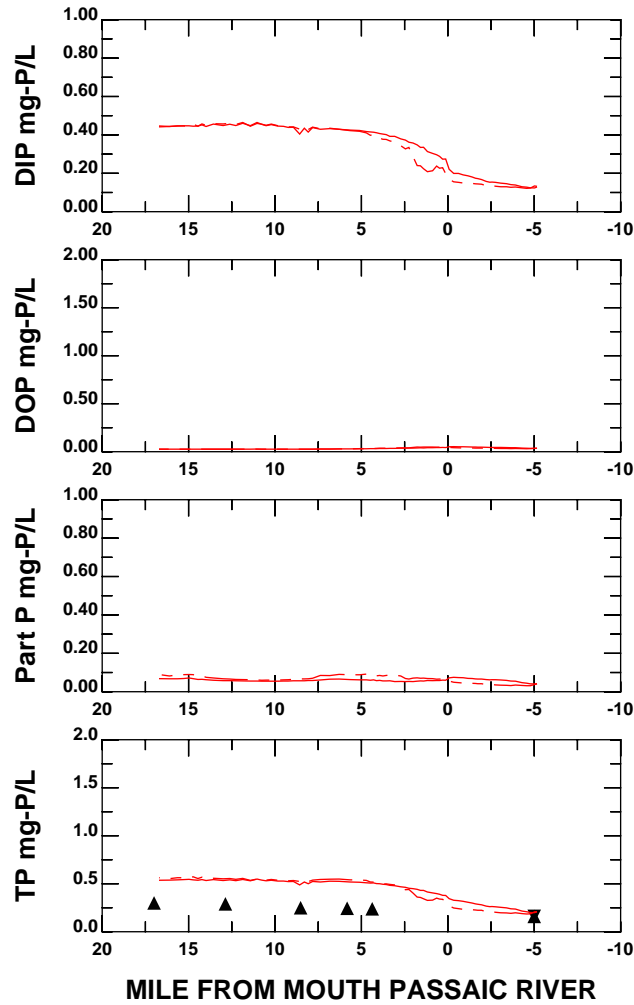
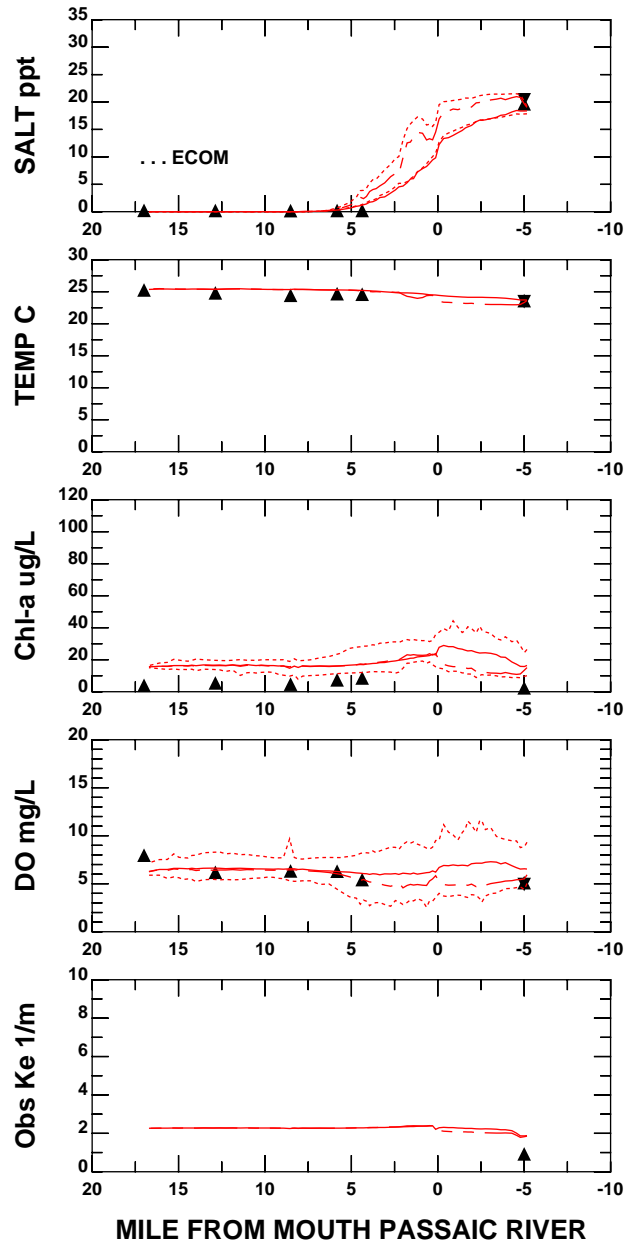
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0809



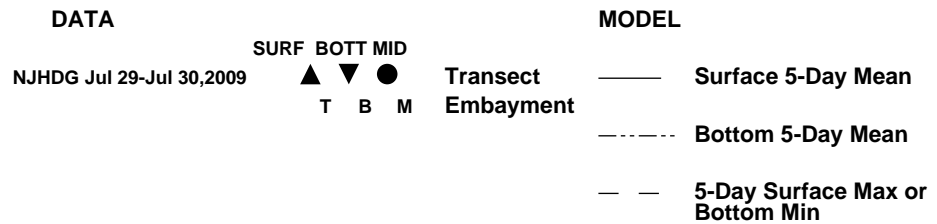
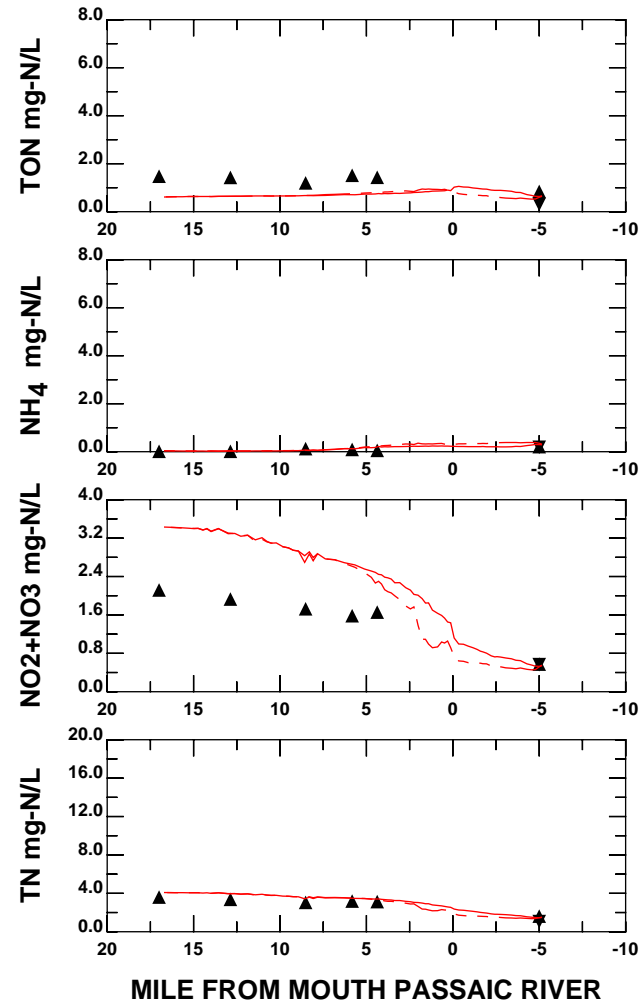
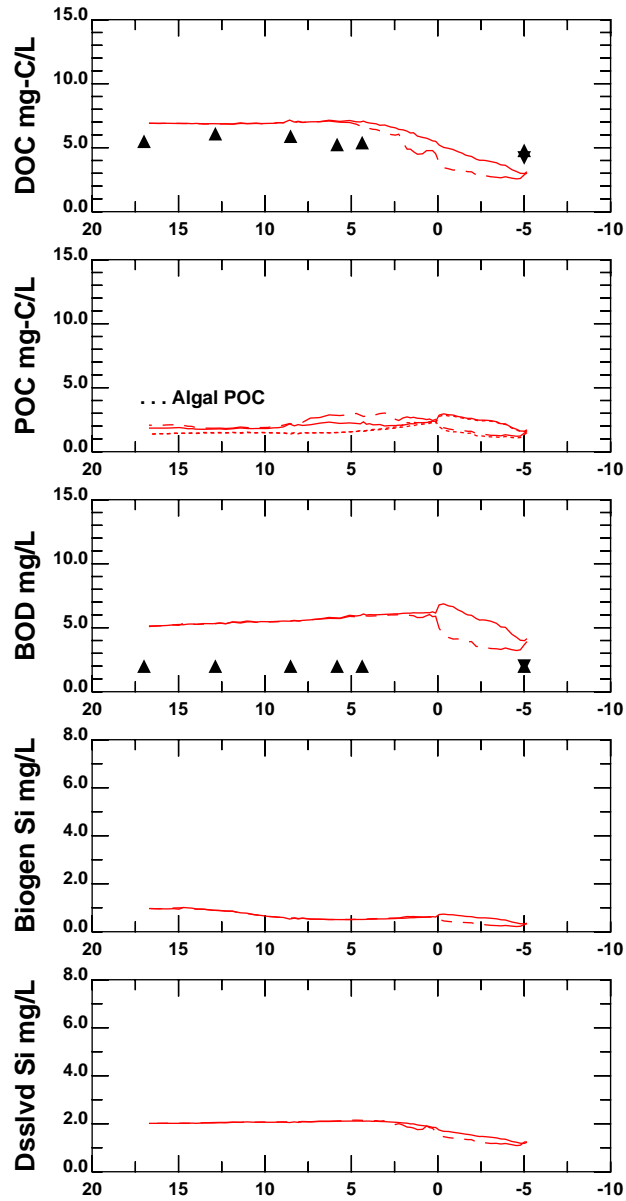
MILE FROM MOUTH PASSAIC RIVER



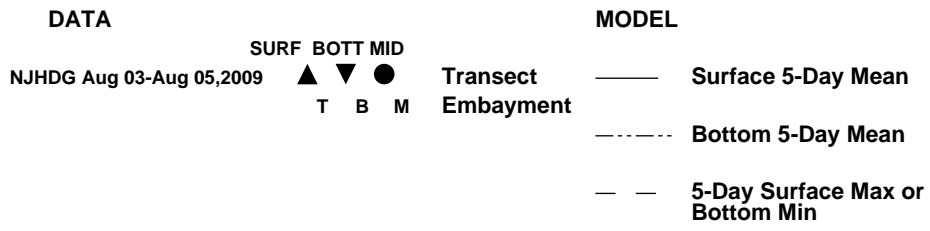
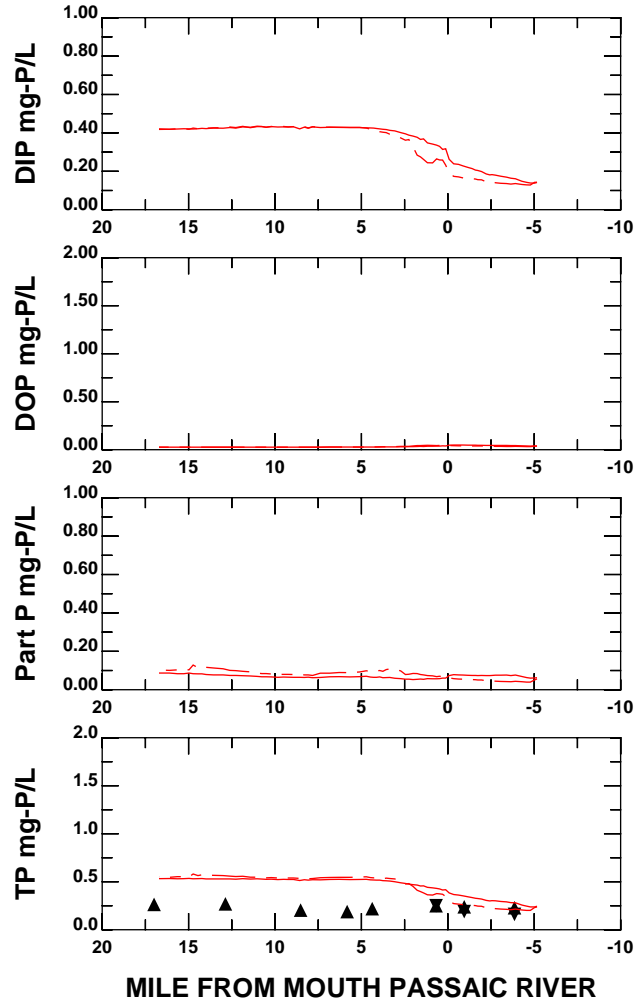
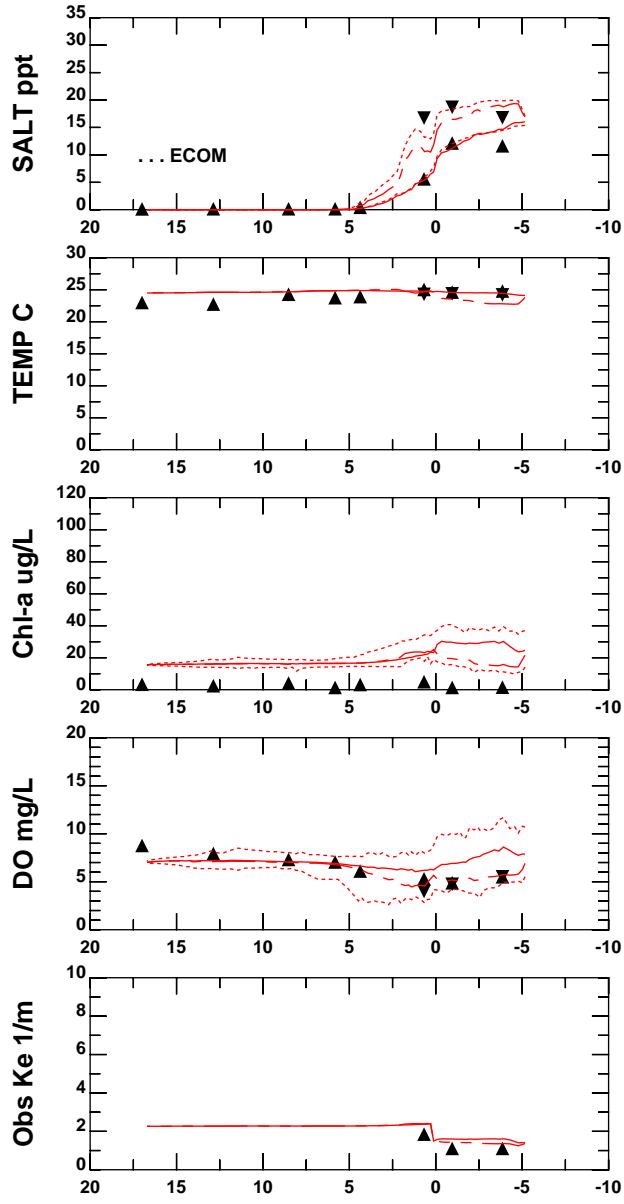


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

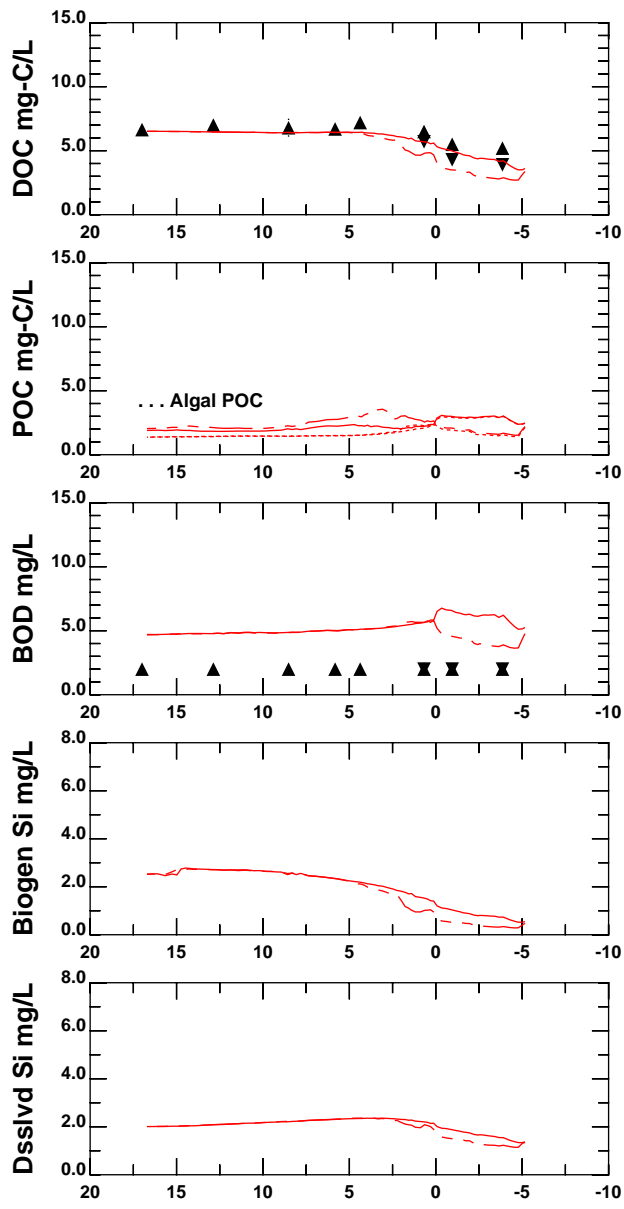




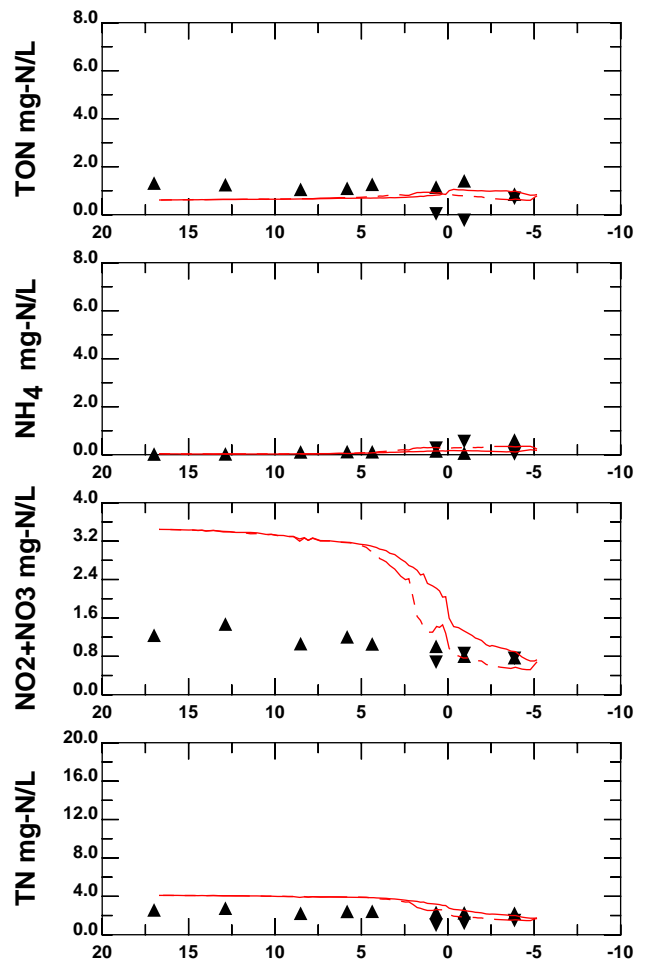
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



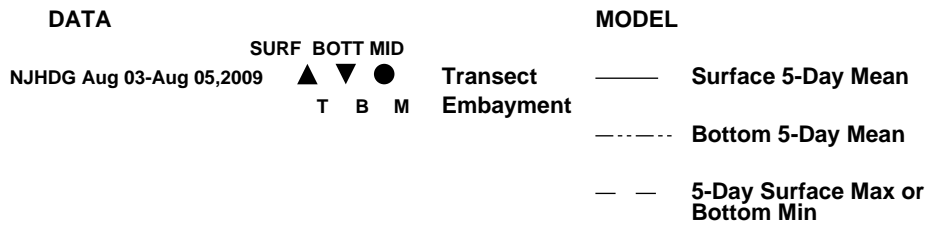
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



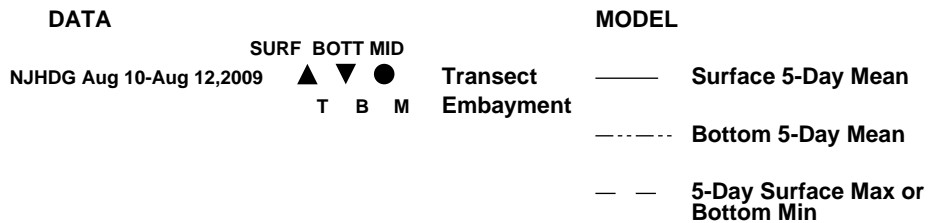
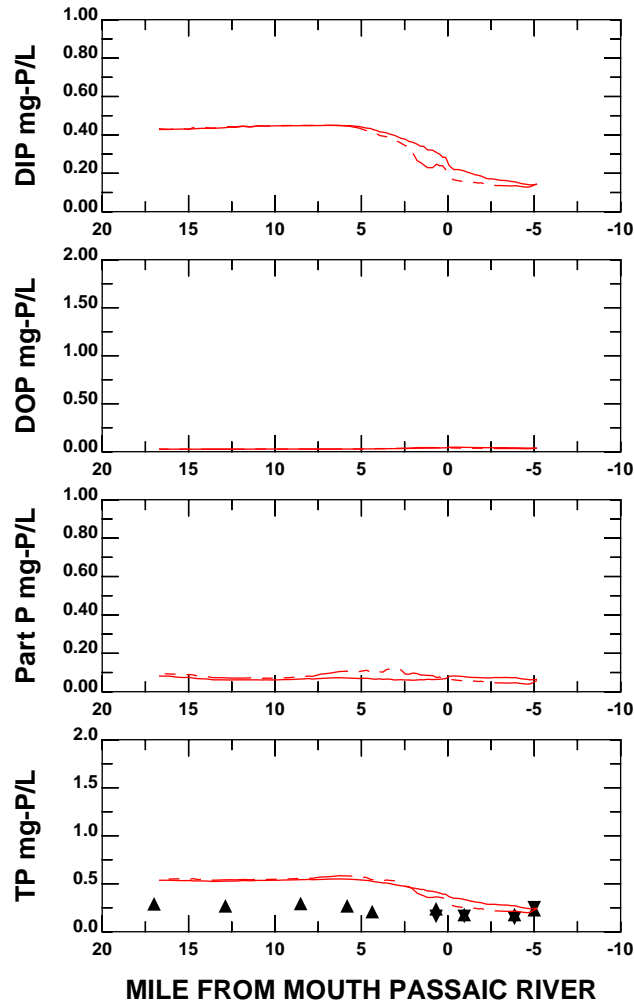
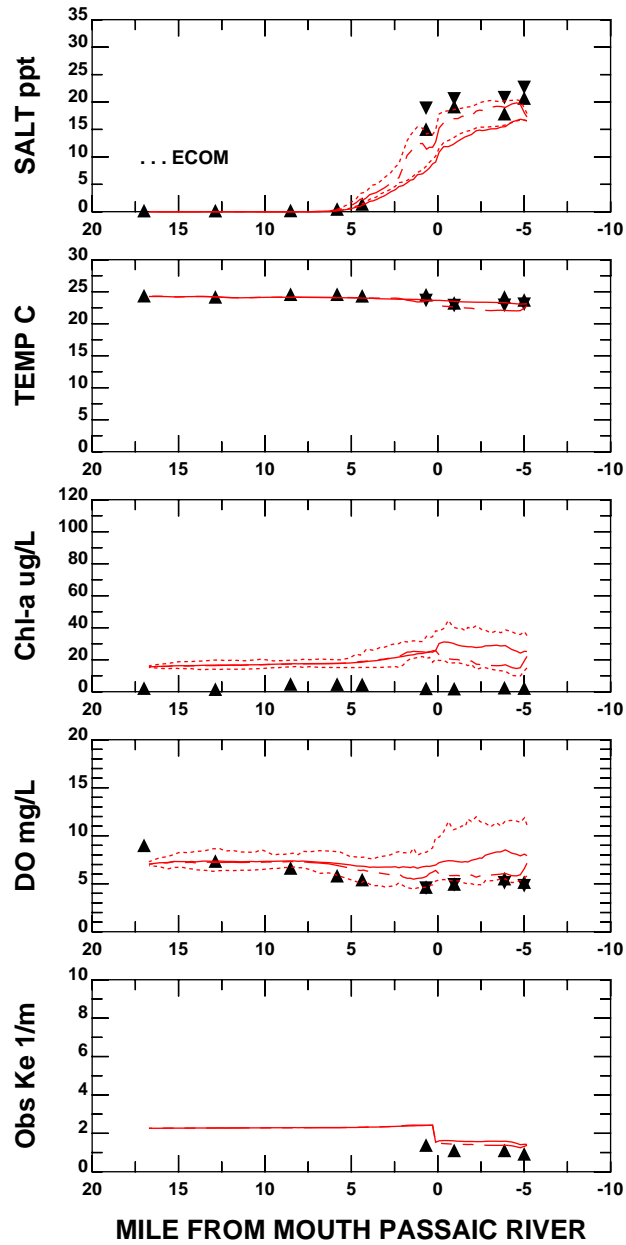
MILE FROM MOUTH PASSAIC RIVER



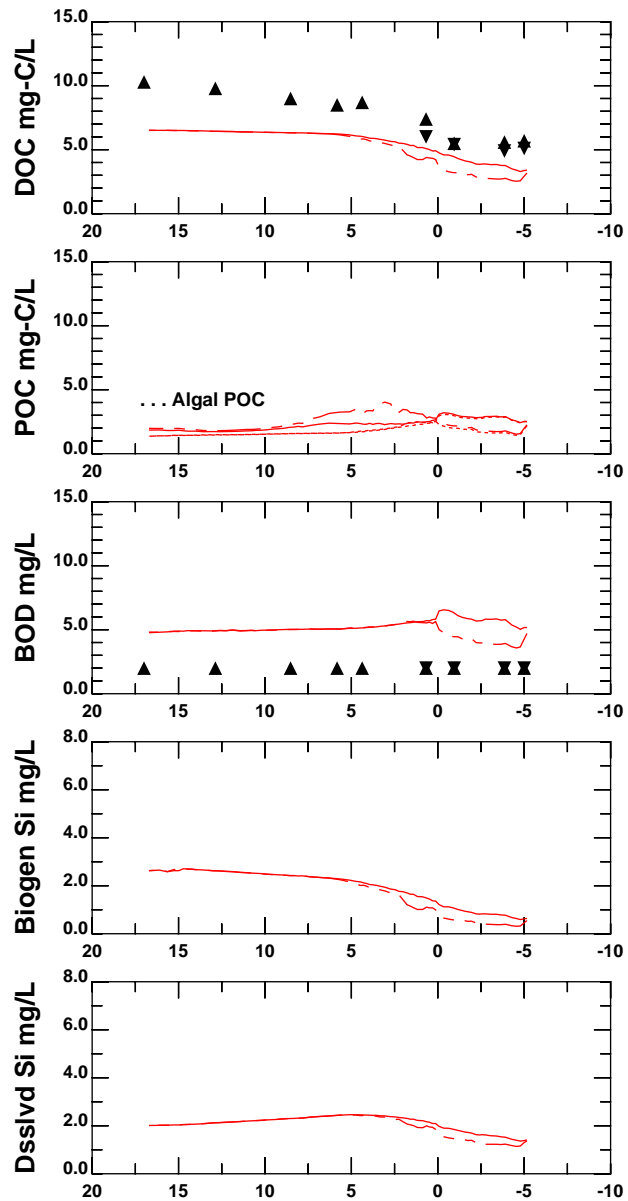
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



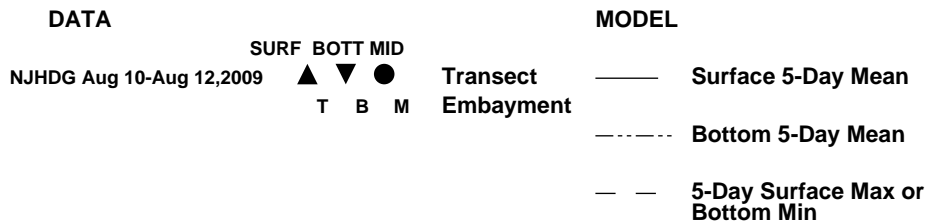
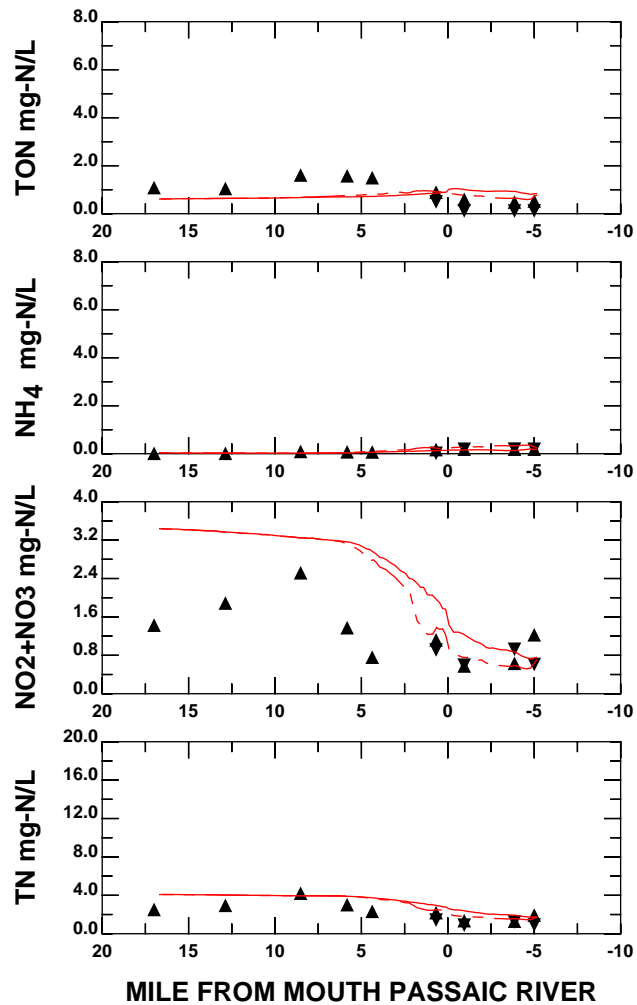
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

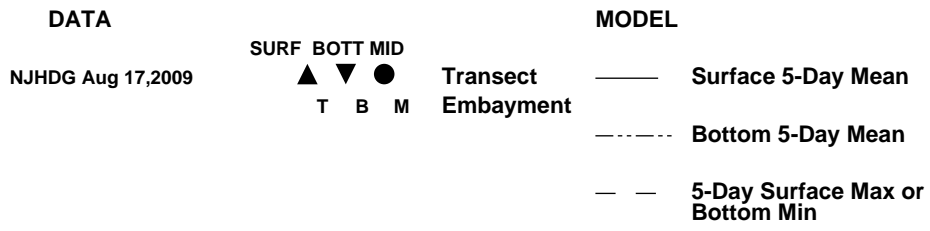
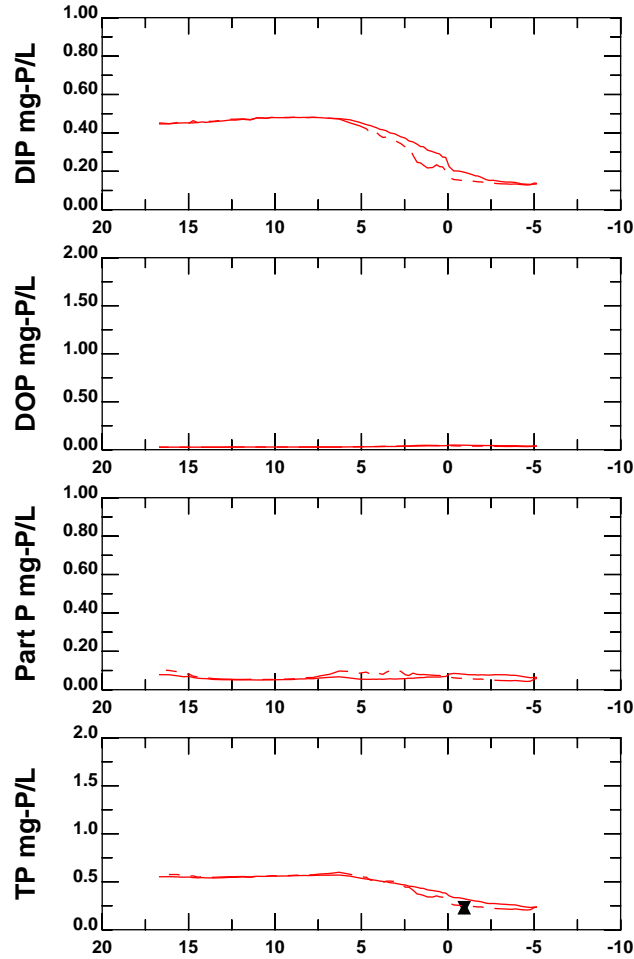
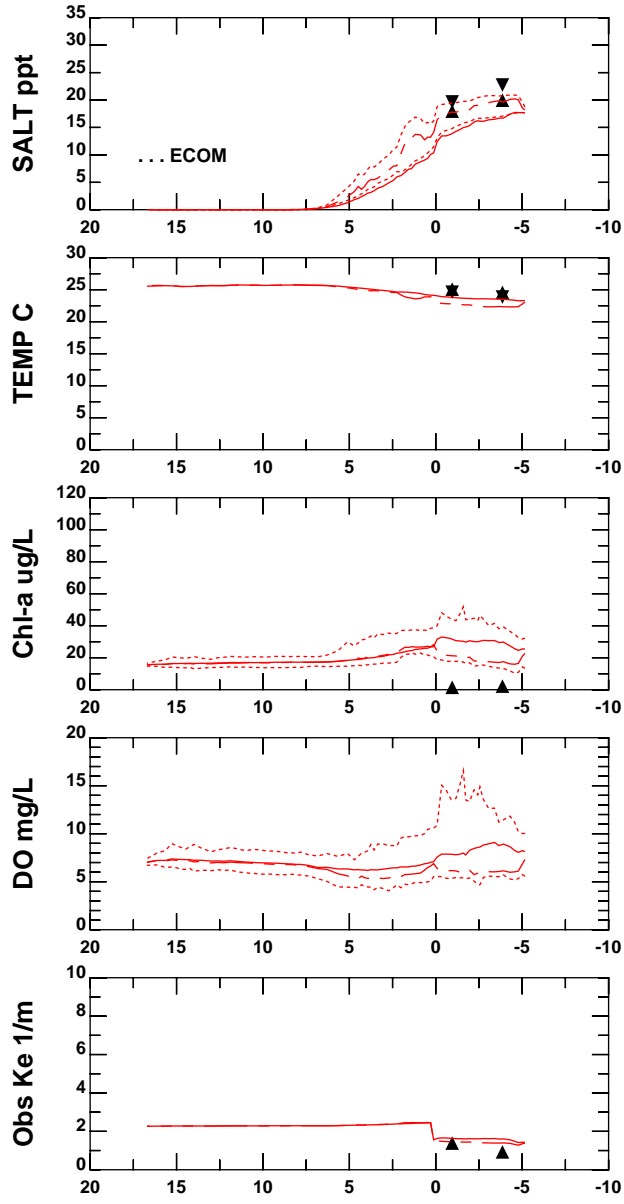


MILE FROM MOUTH PASSAIC RIVER

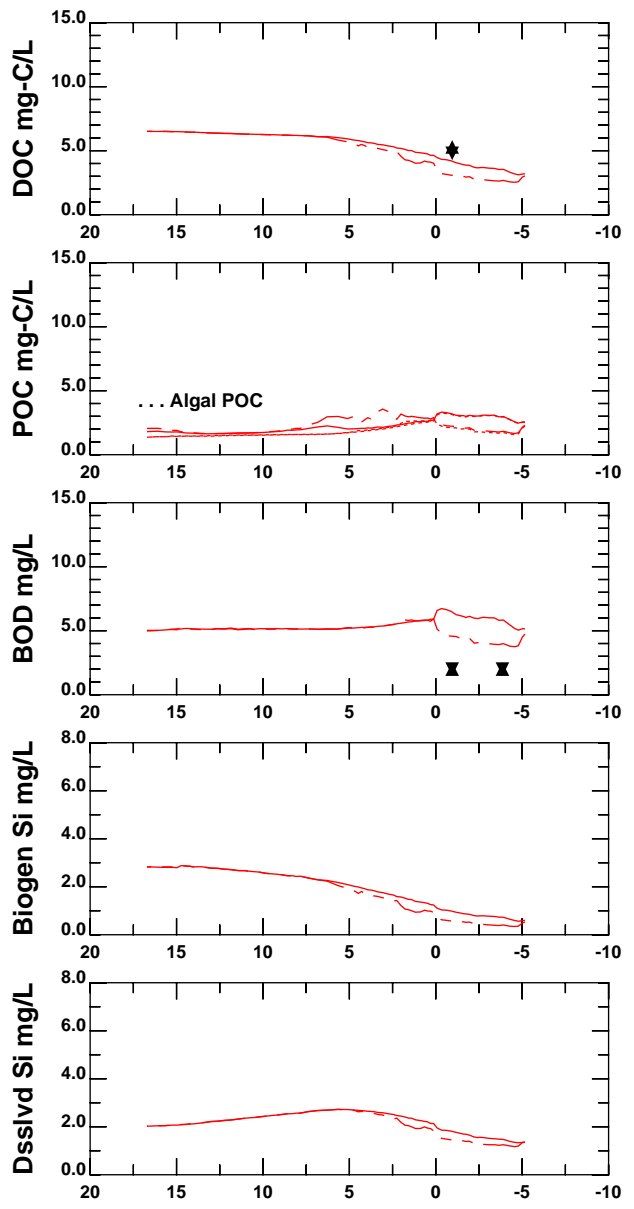
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0809

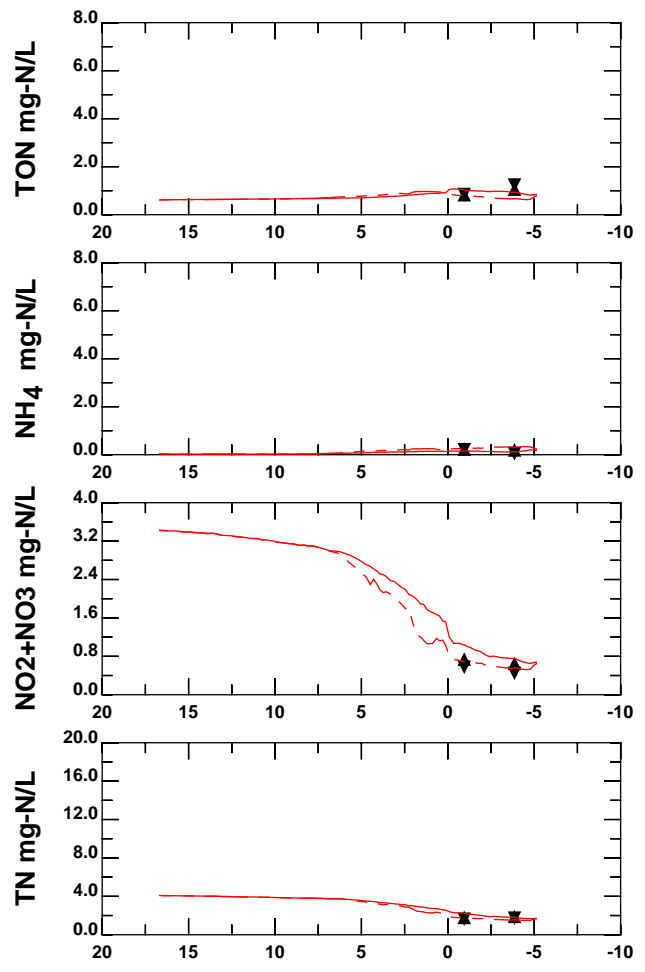




**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0809



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

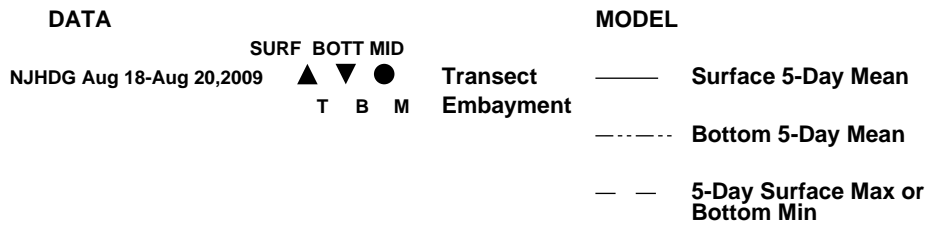
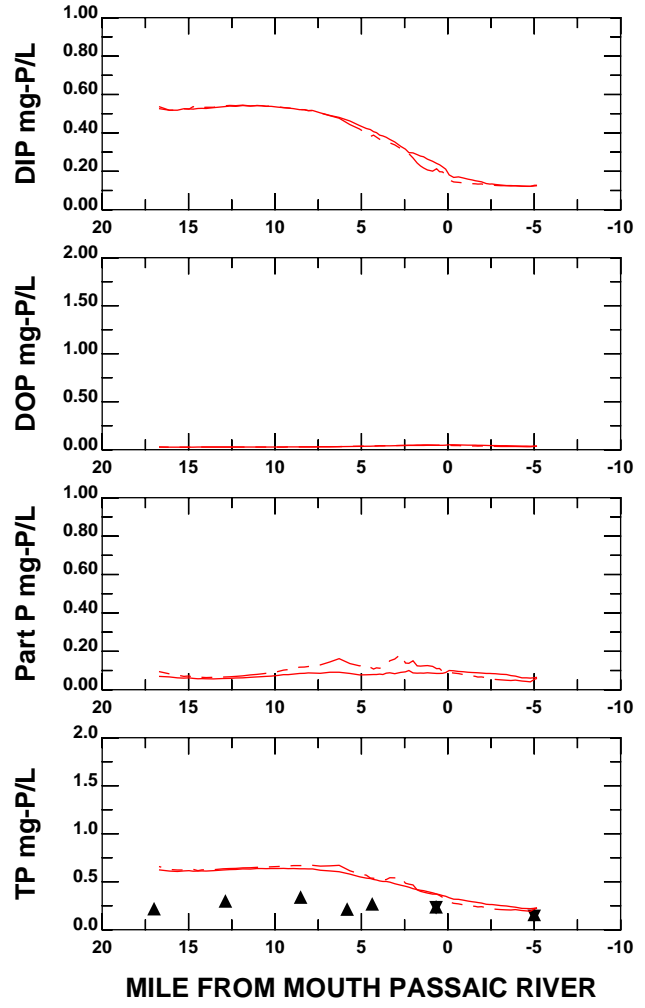
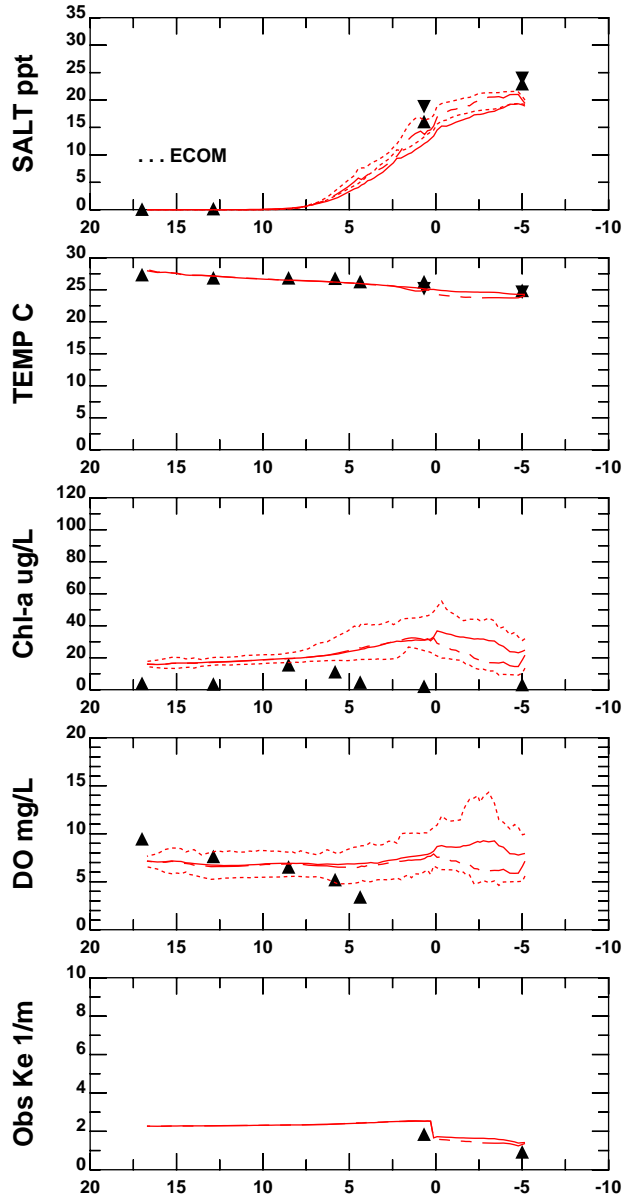
DATA  
NJHDG Aug 17,2009

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

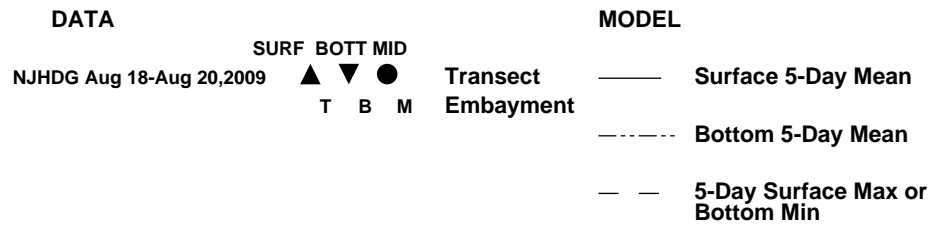
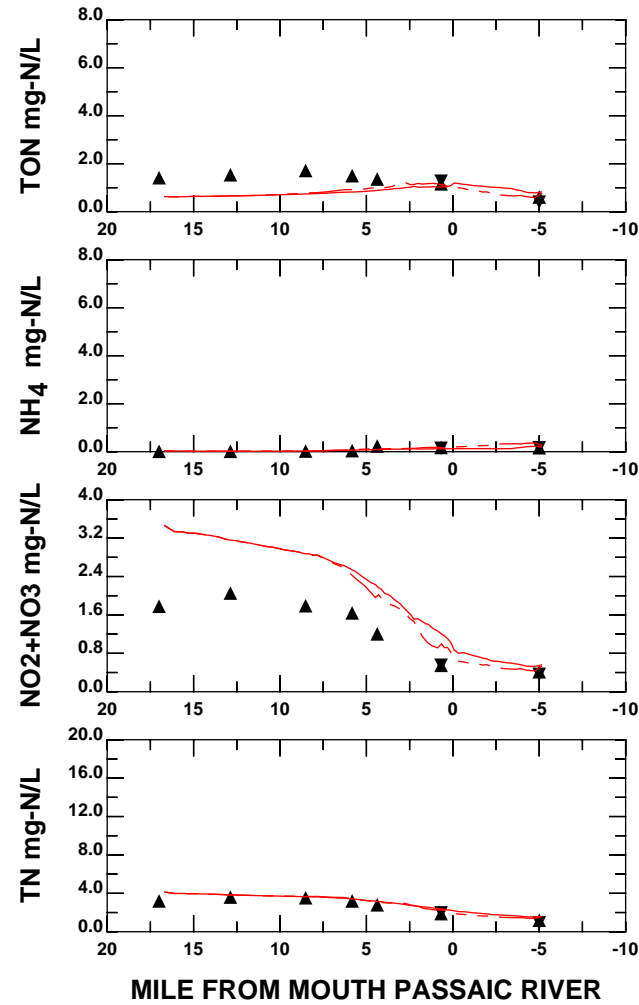
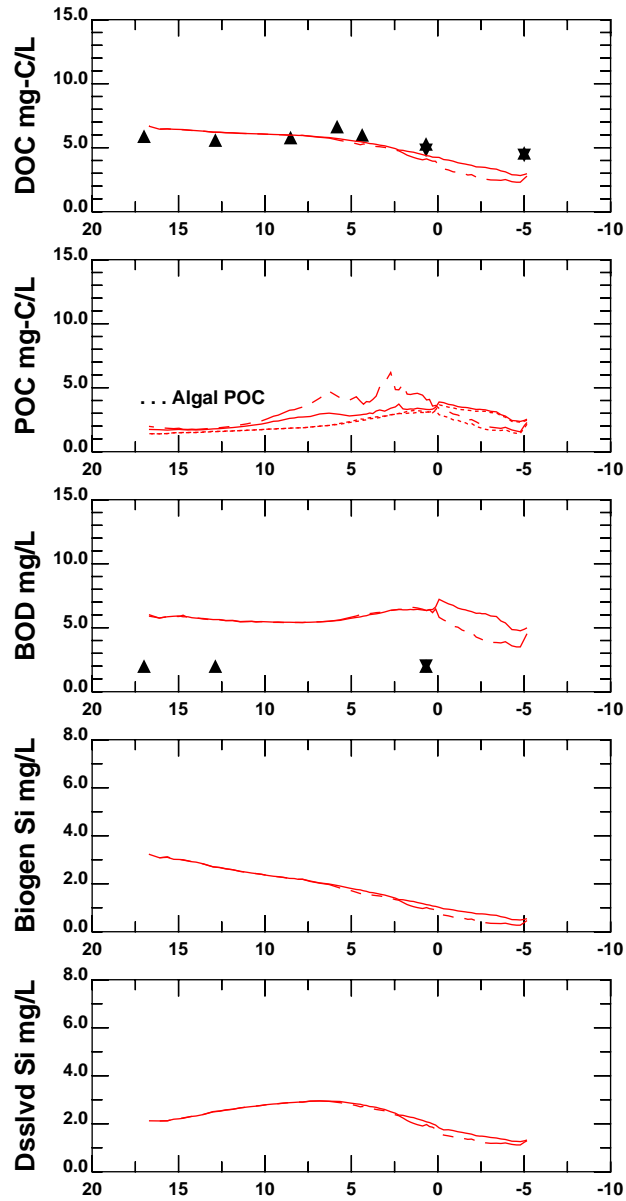
— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

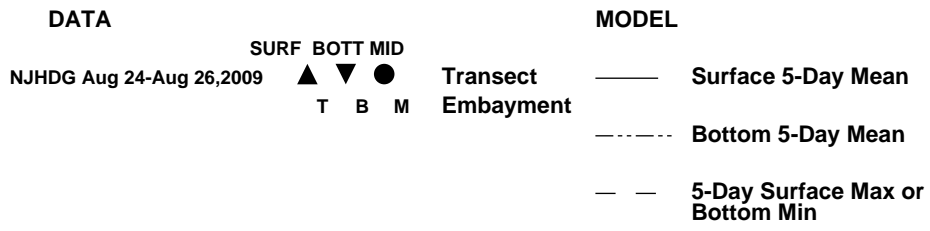
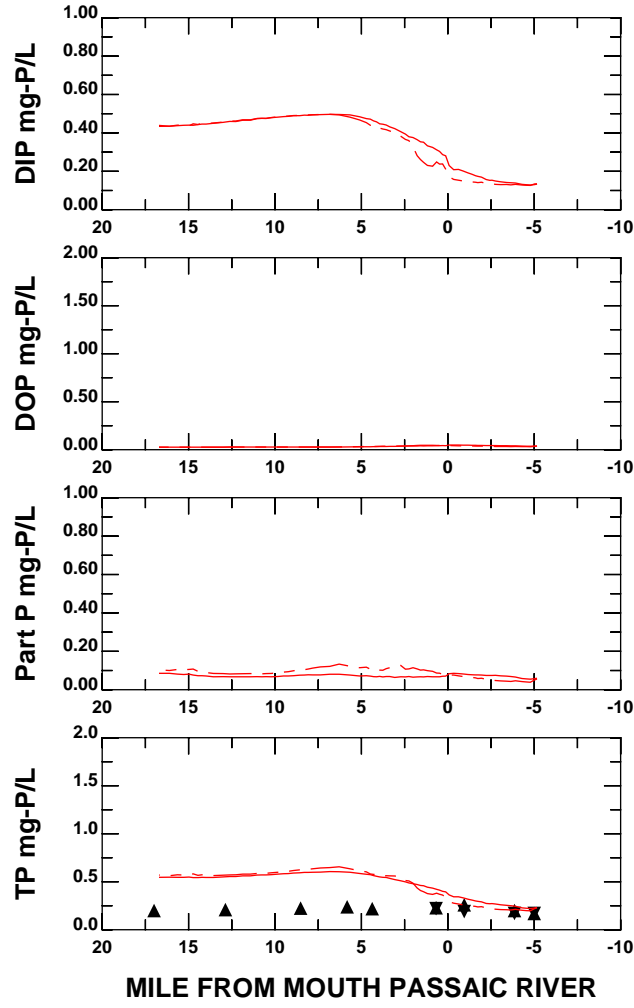
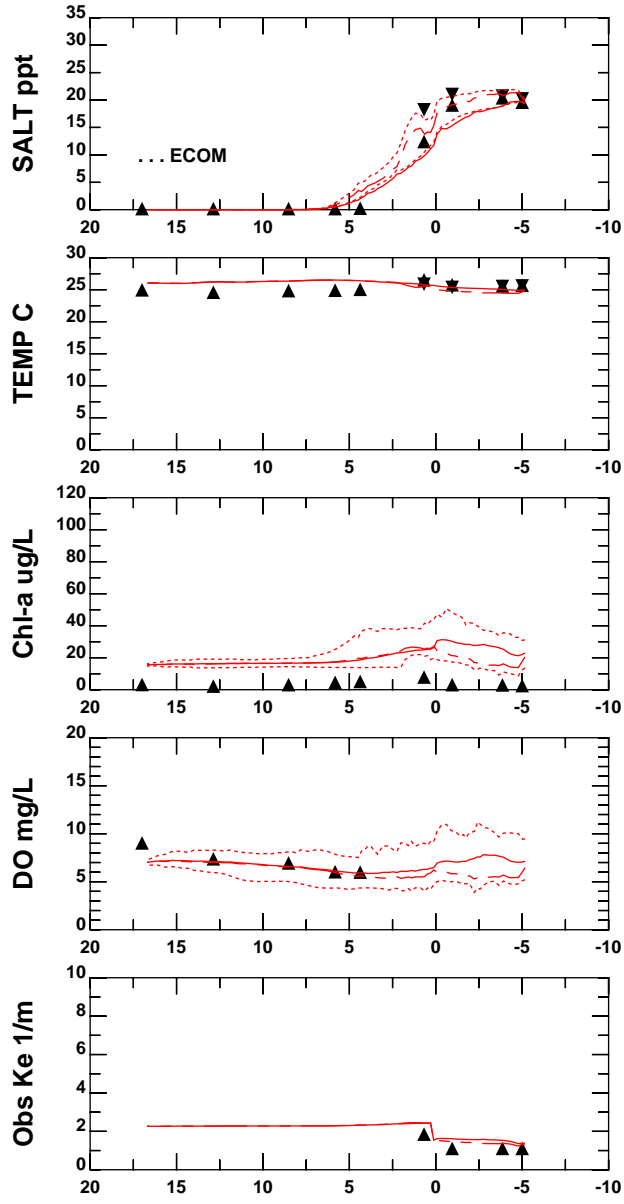


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

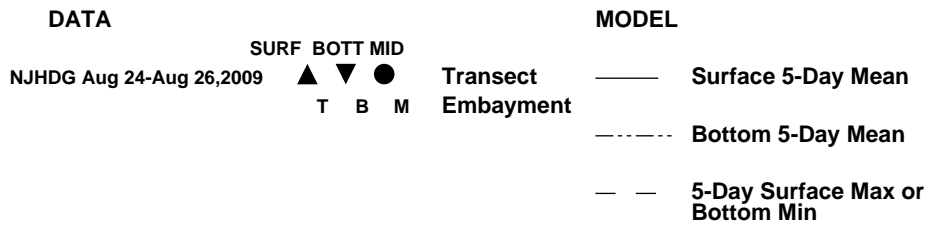
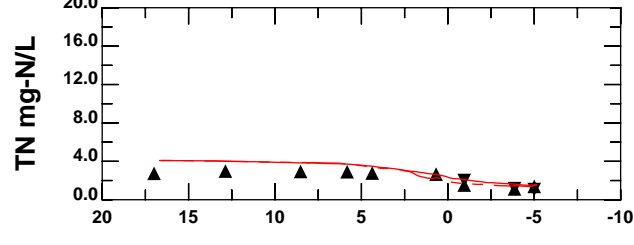
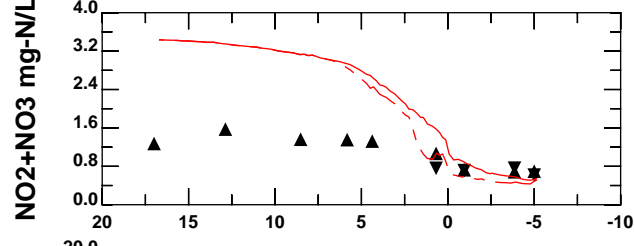
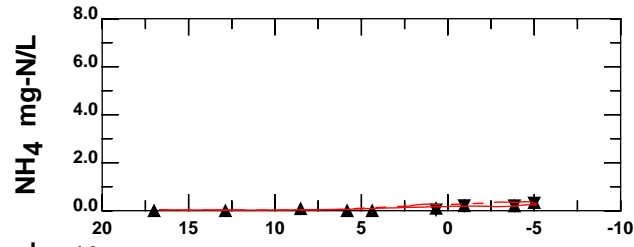
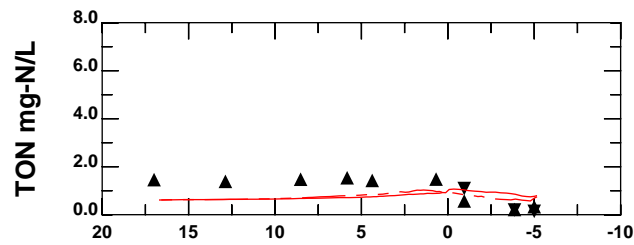
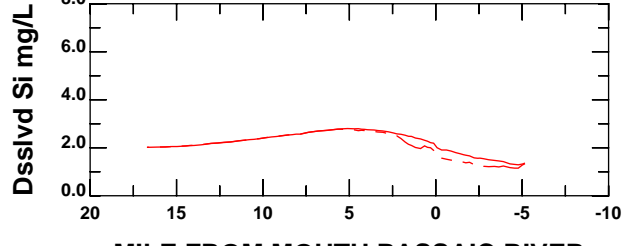
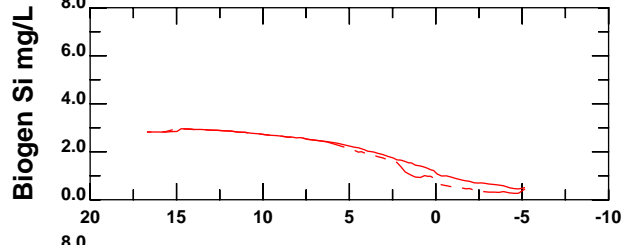
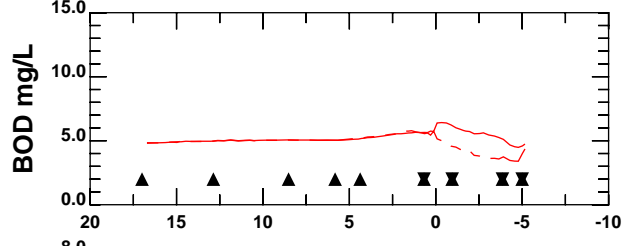
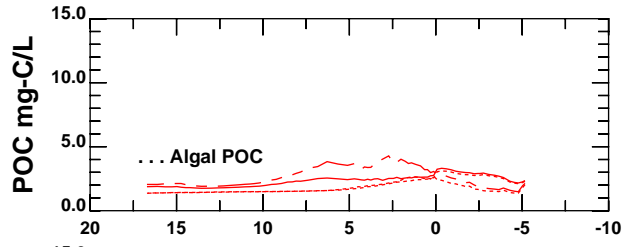
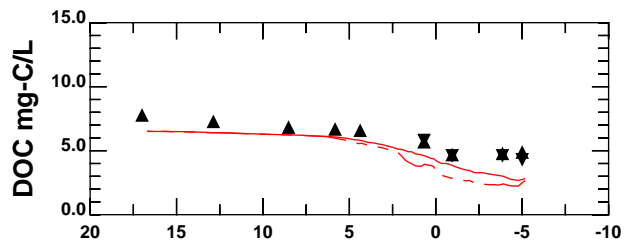




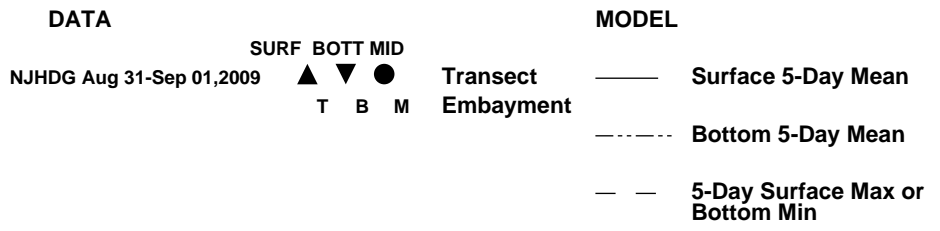
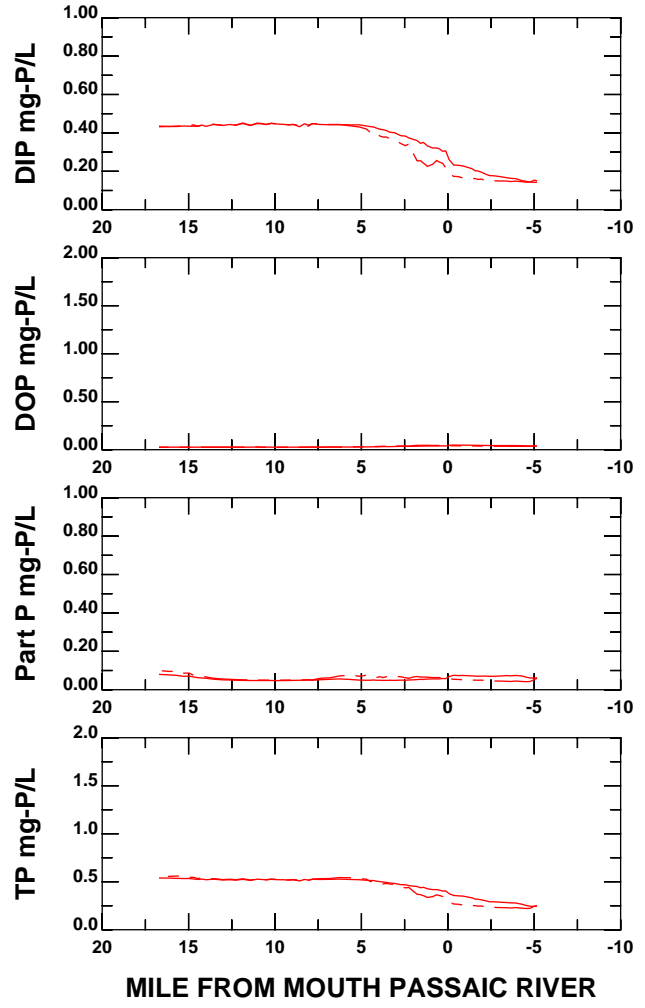
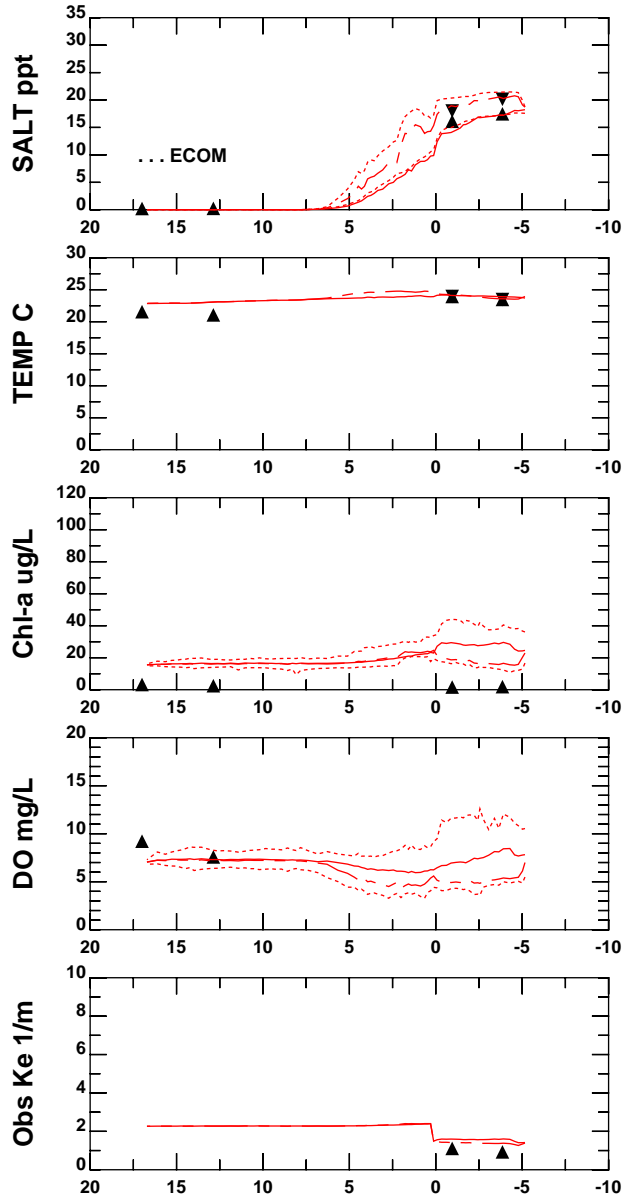
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



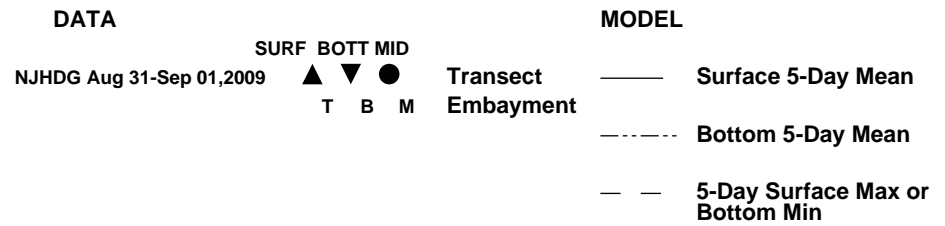
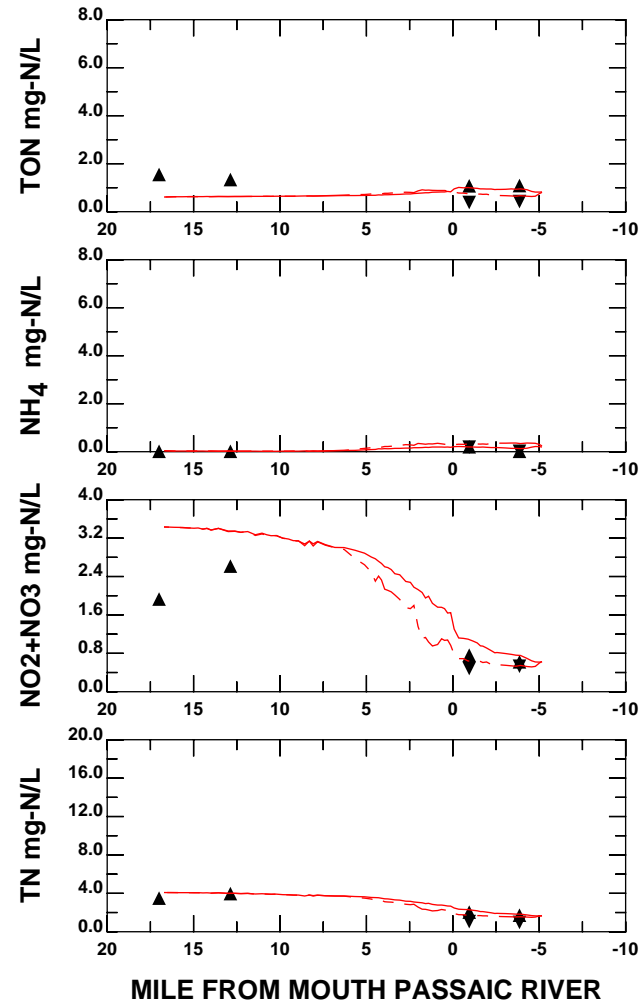
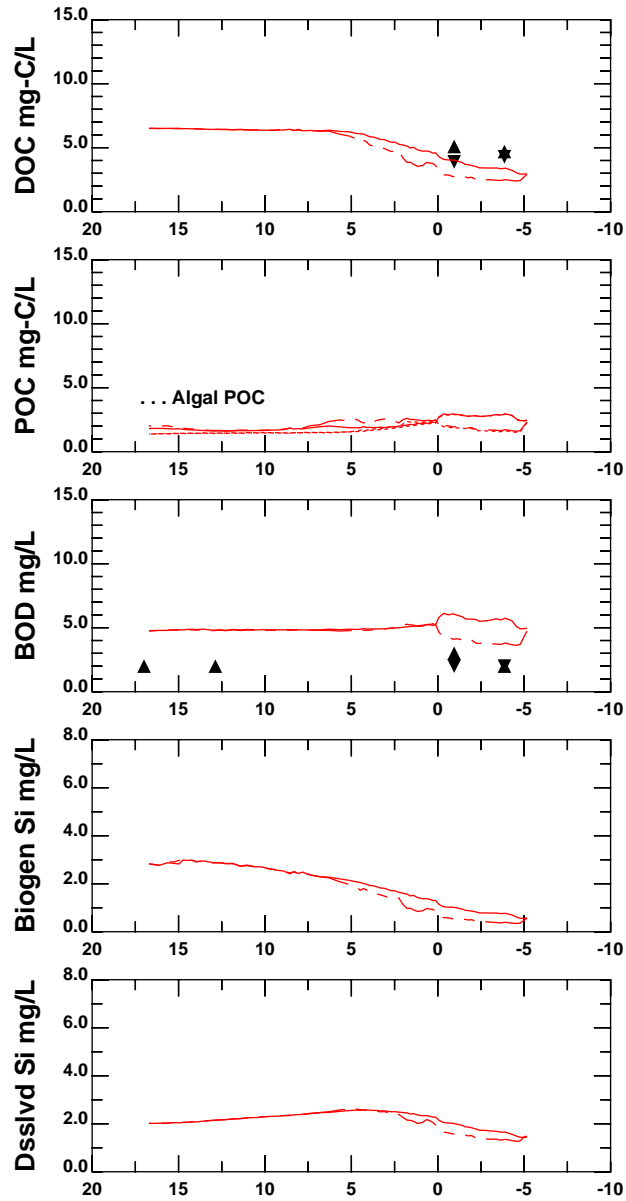
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



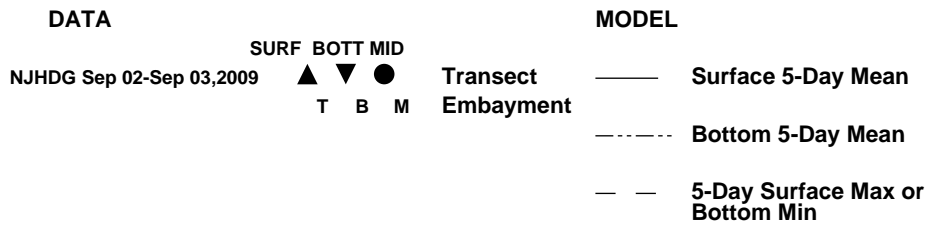
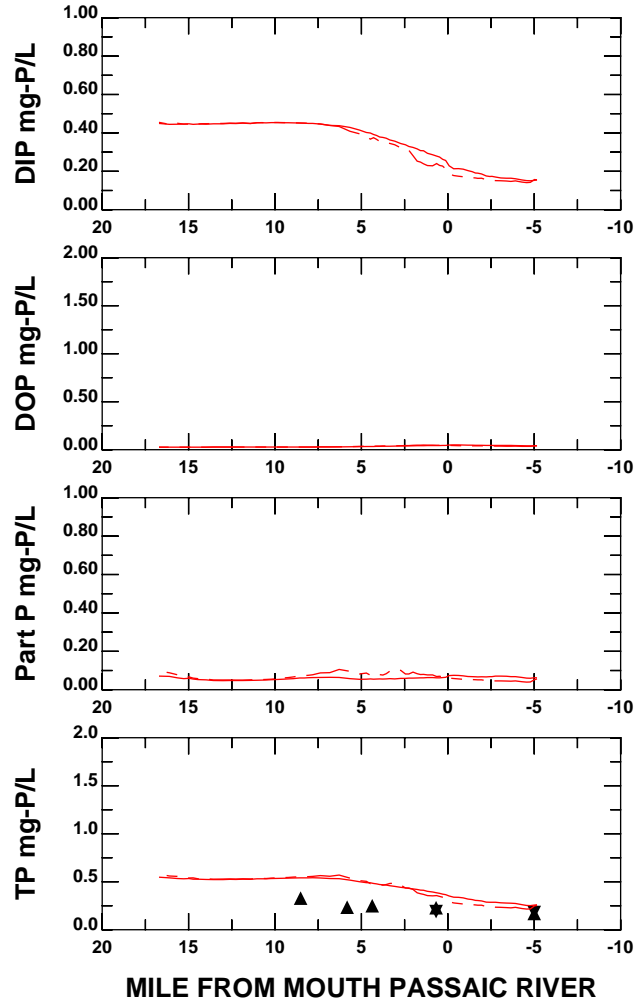
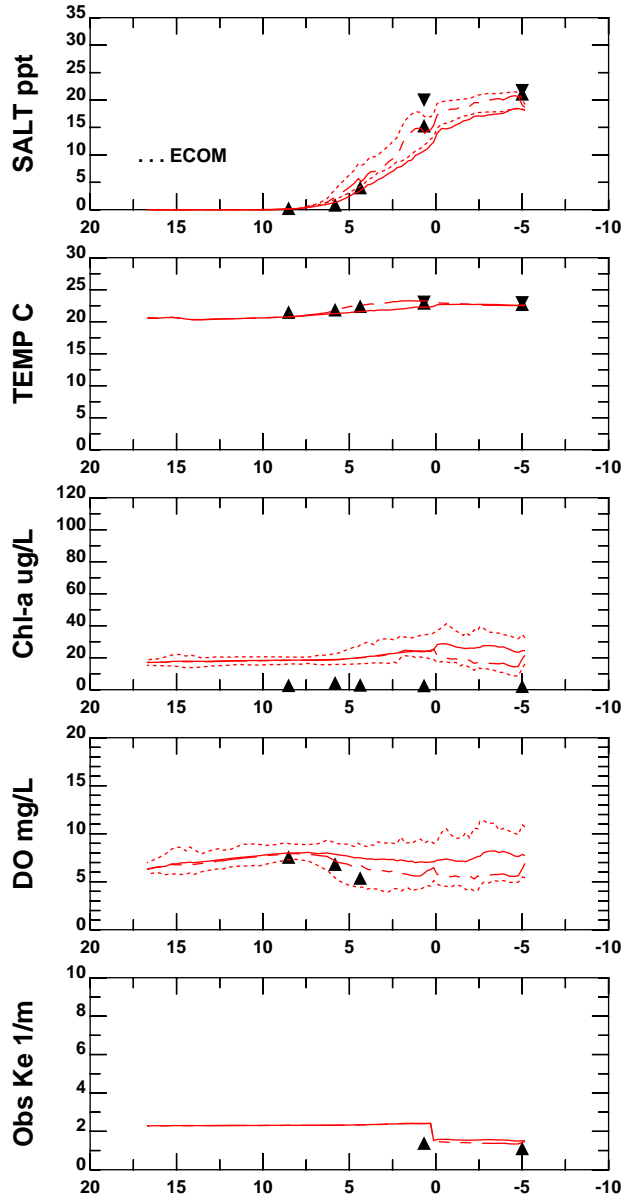
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



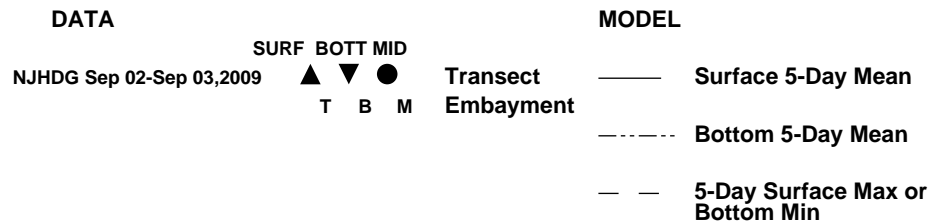
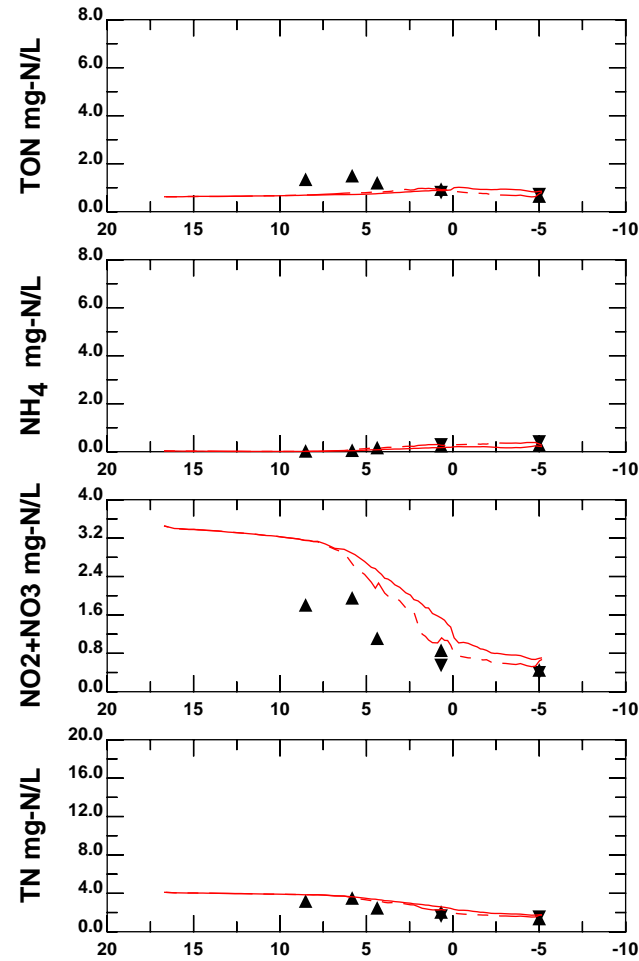
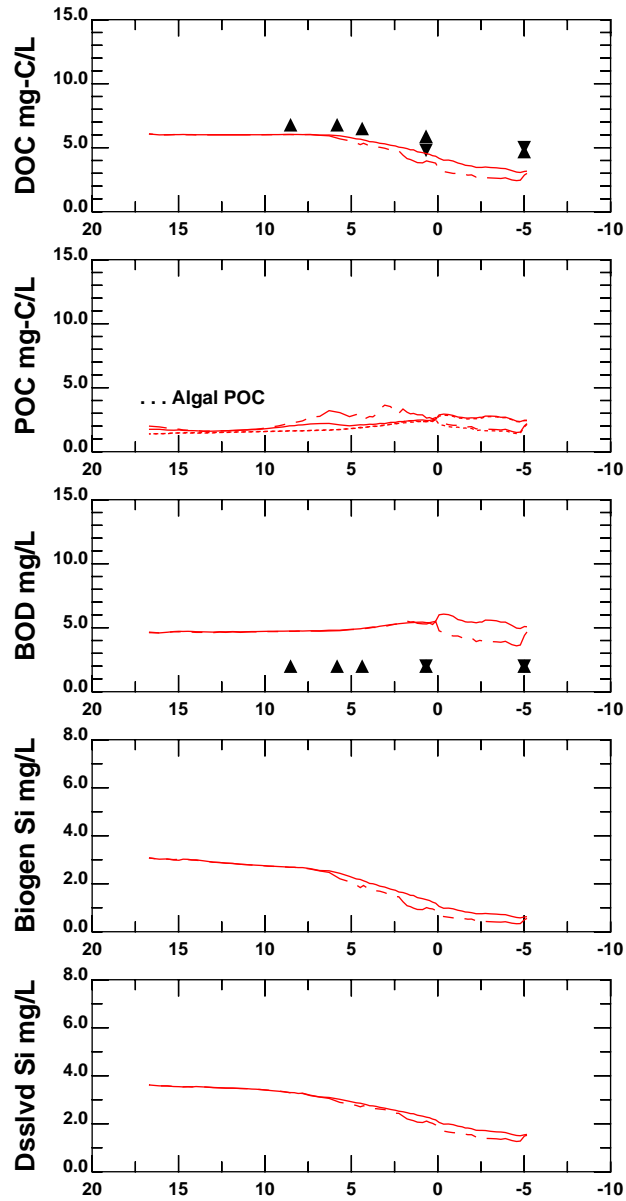
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



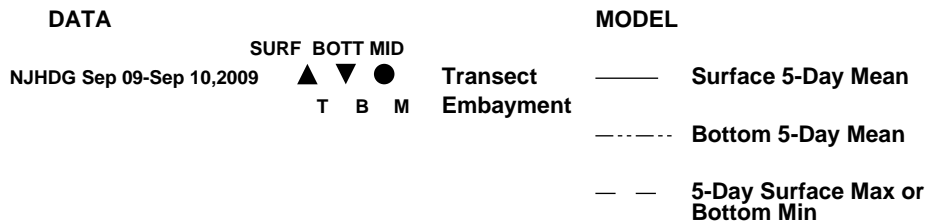
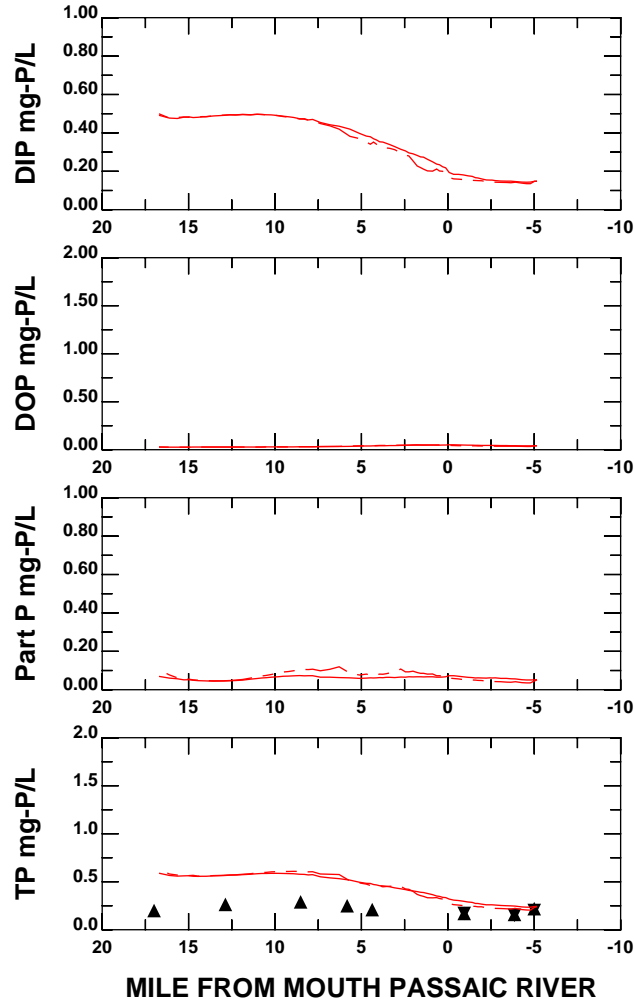
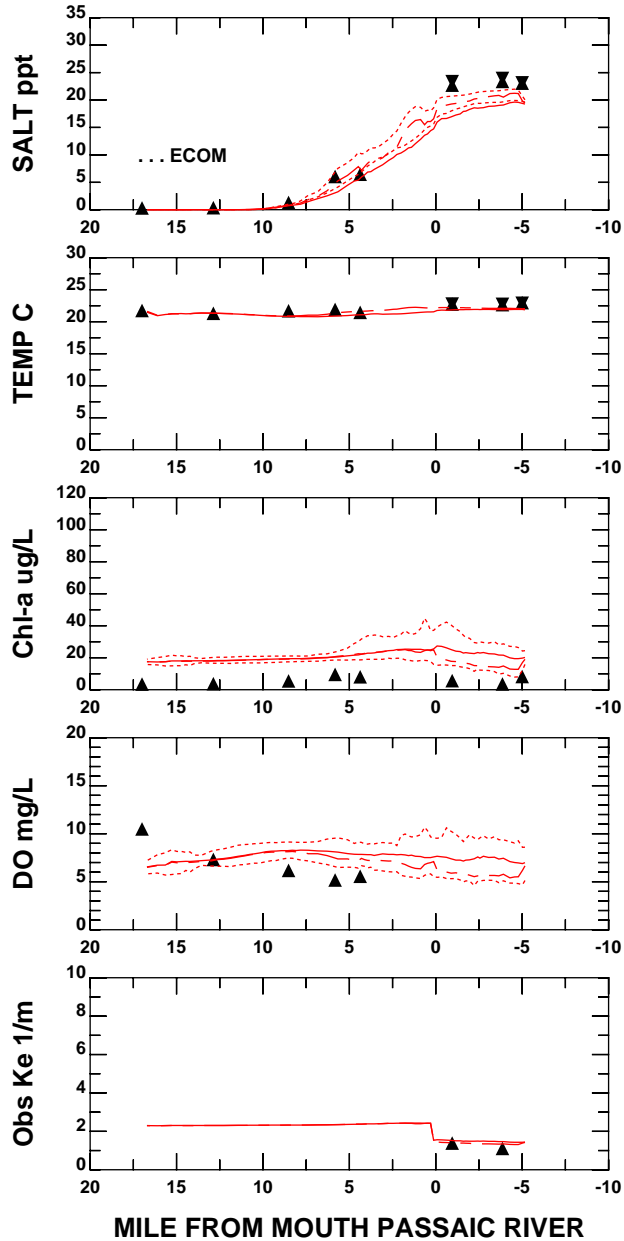
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

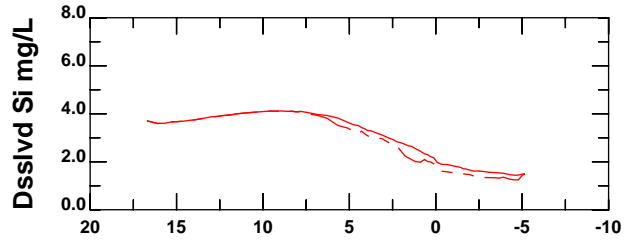
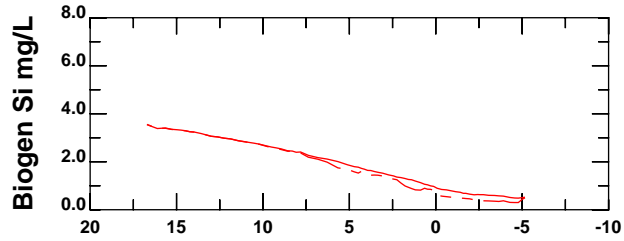
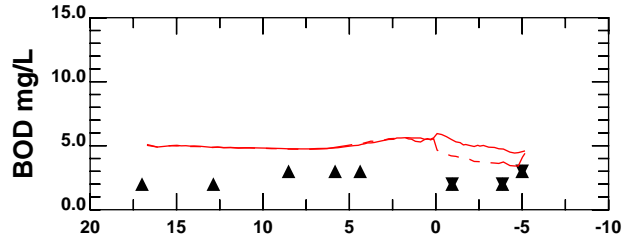
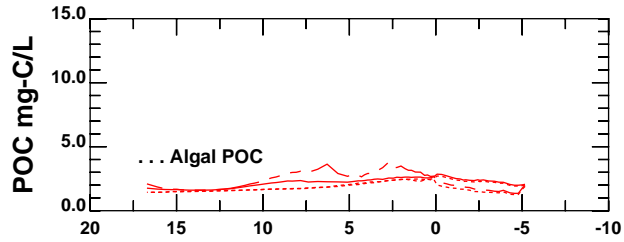
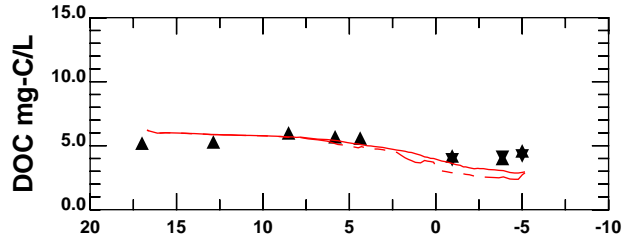


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

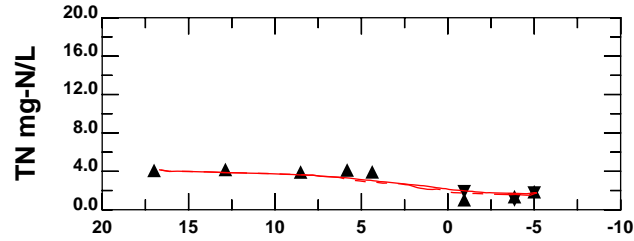
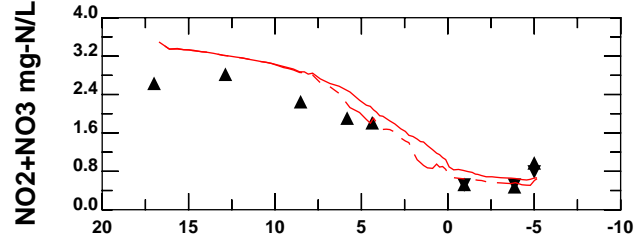
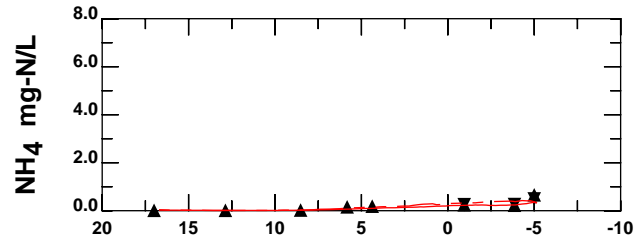
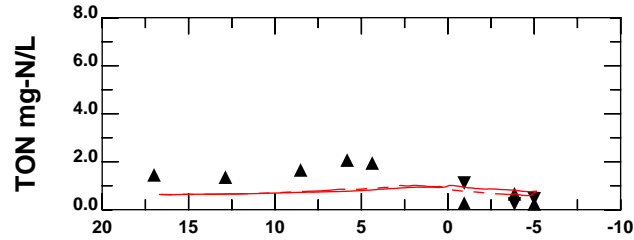


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809

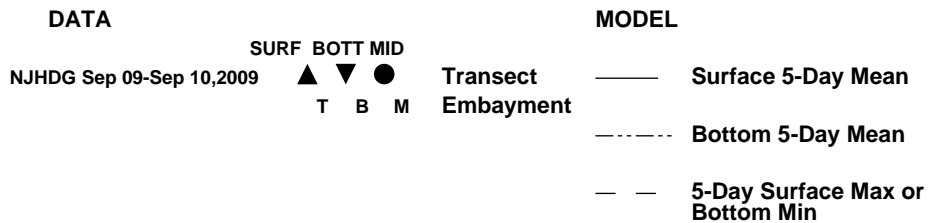




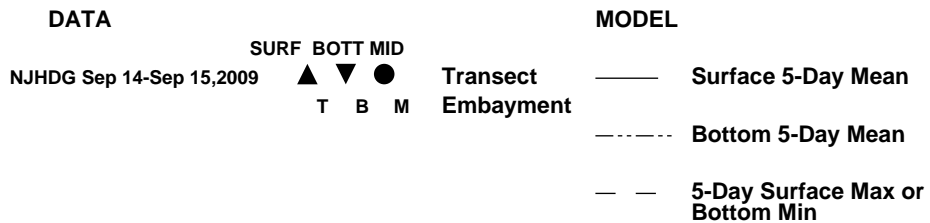
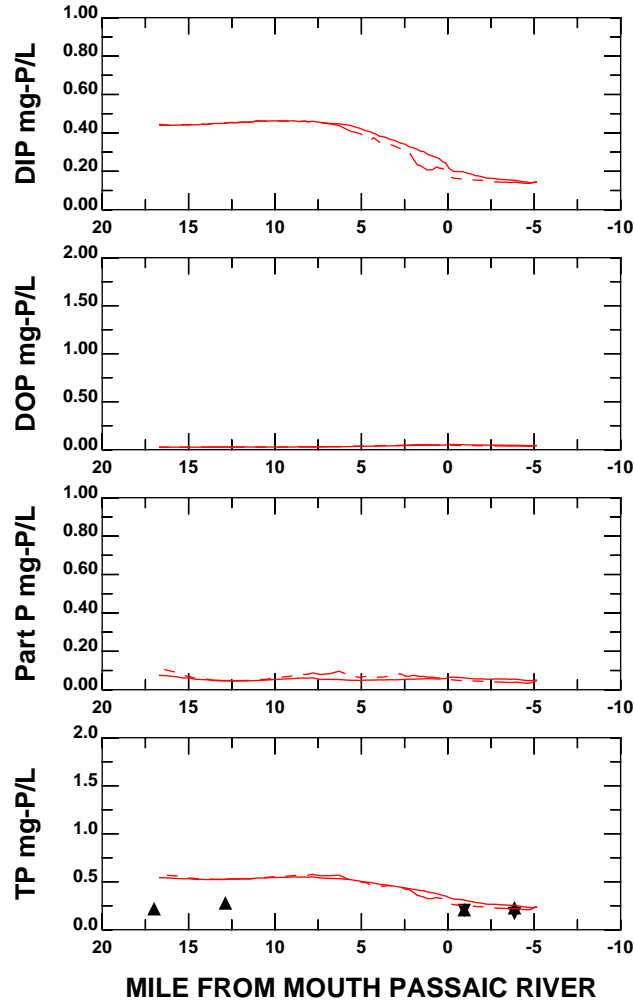
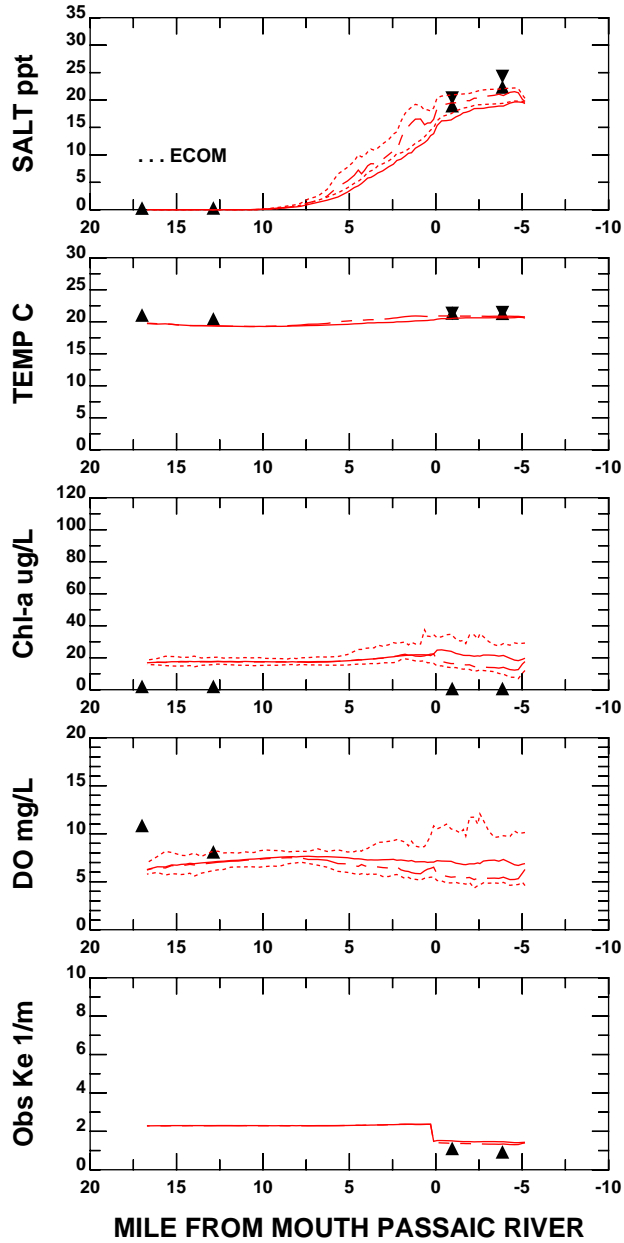
MILE FROM MOUTH PASSAIC RIVER



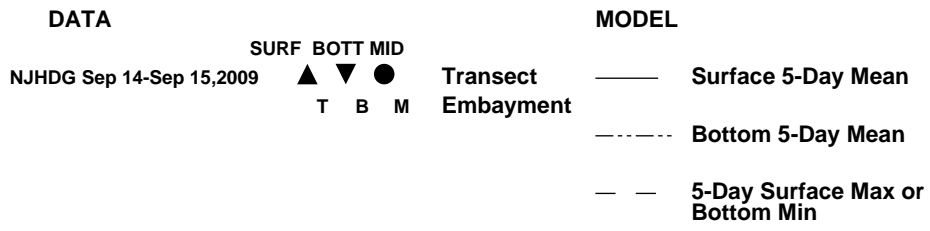
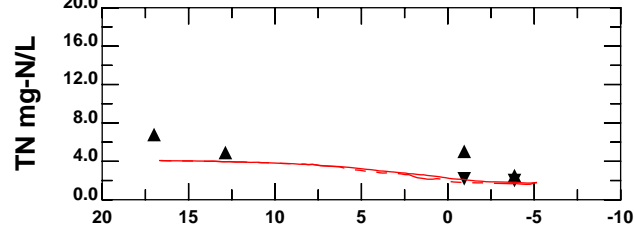
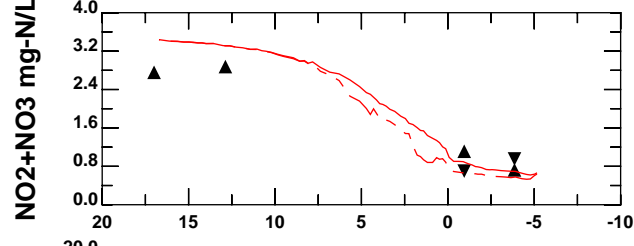
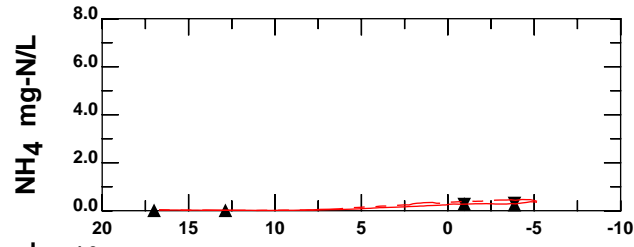
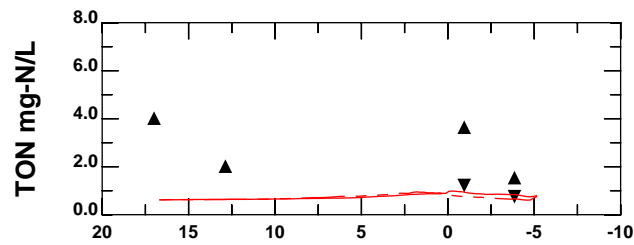
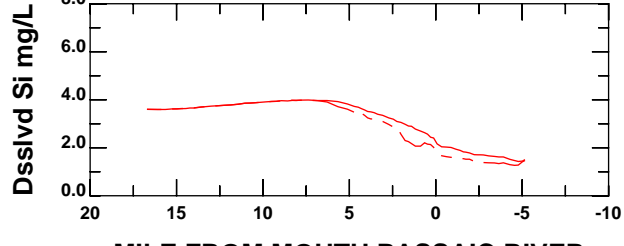
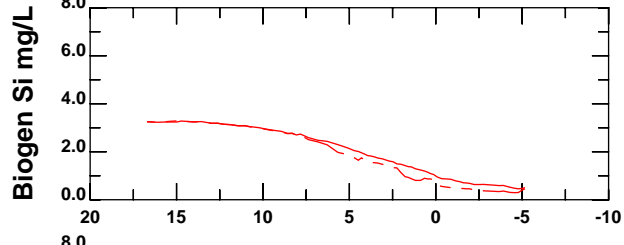
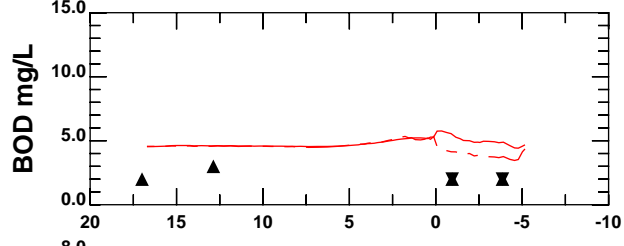
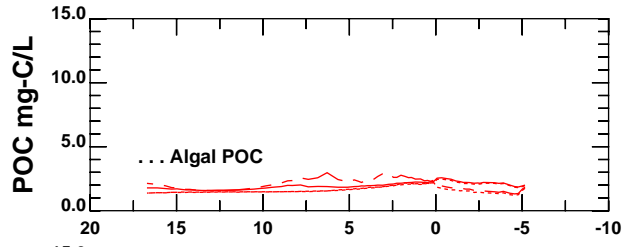
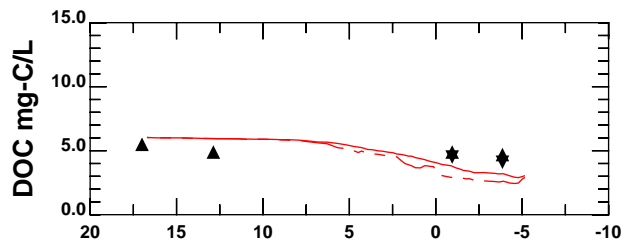
MILE FROM MOUTH PASSAIC RIVER



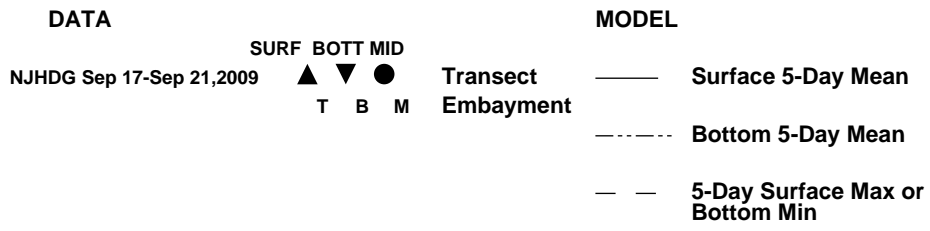
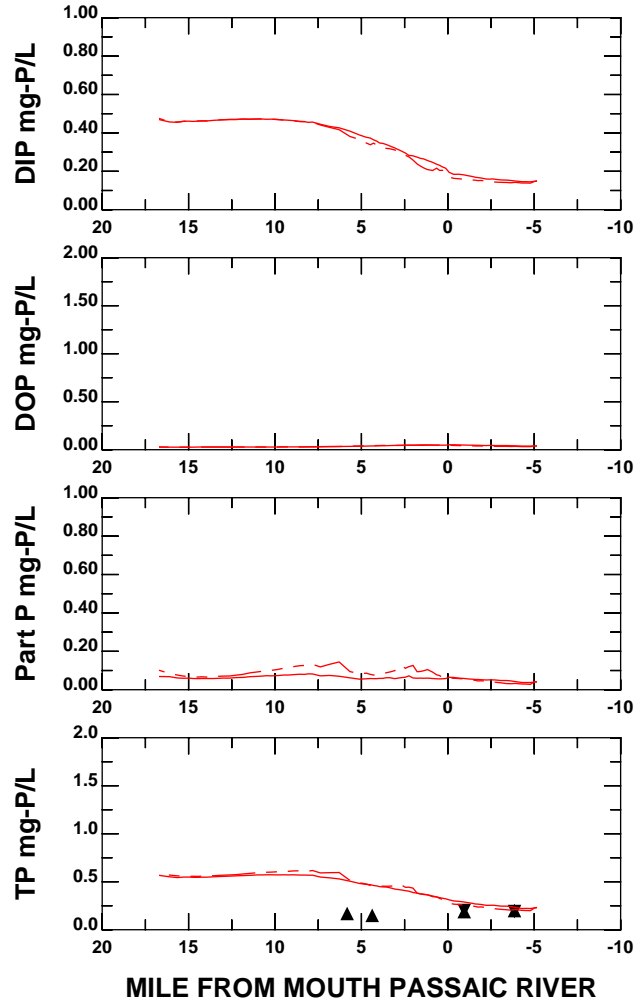
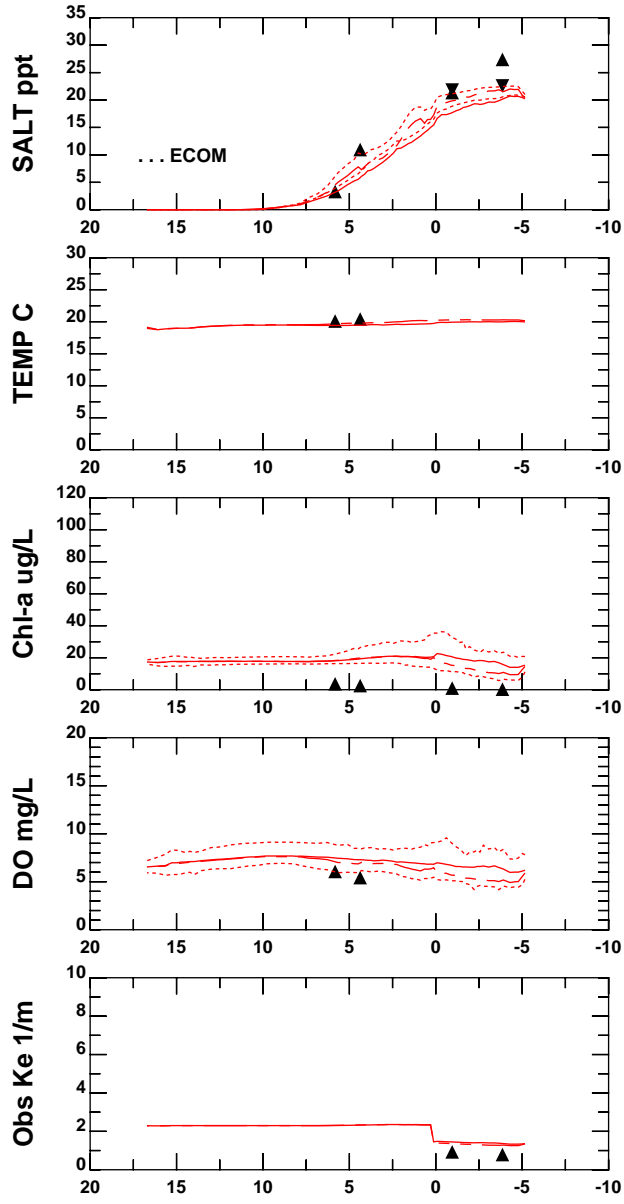
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



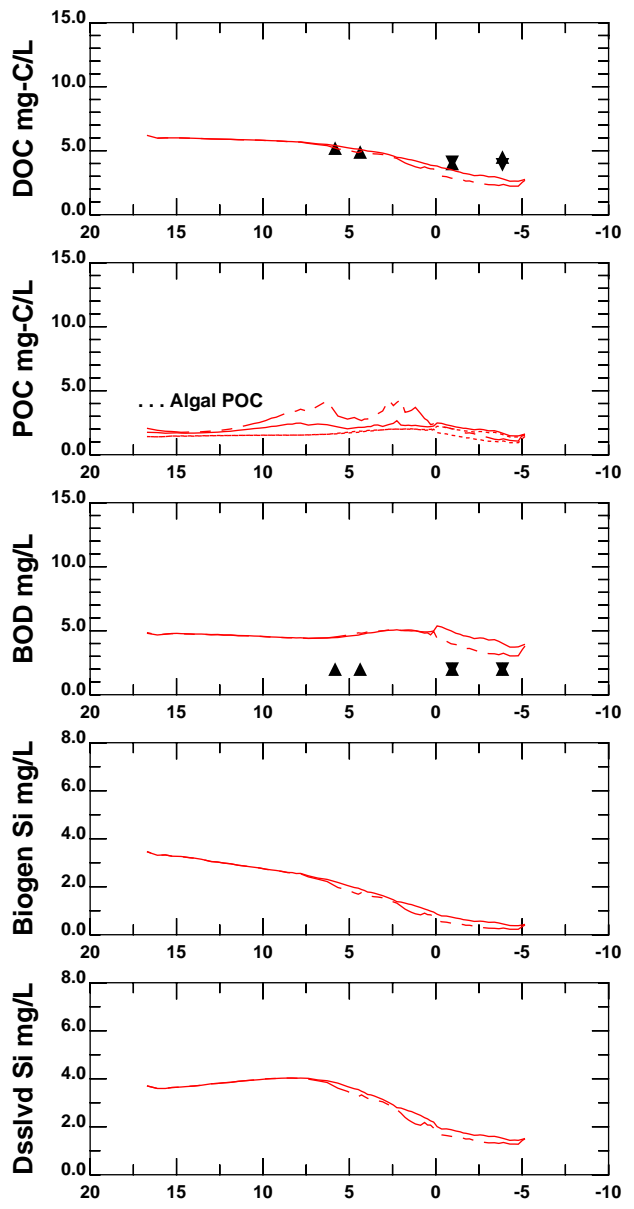
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



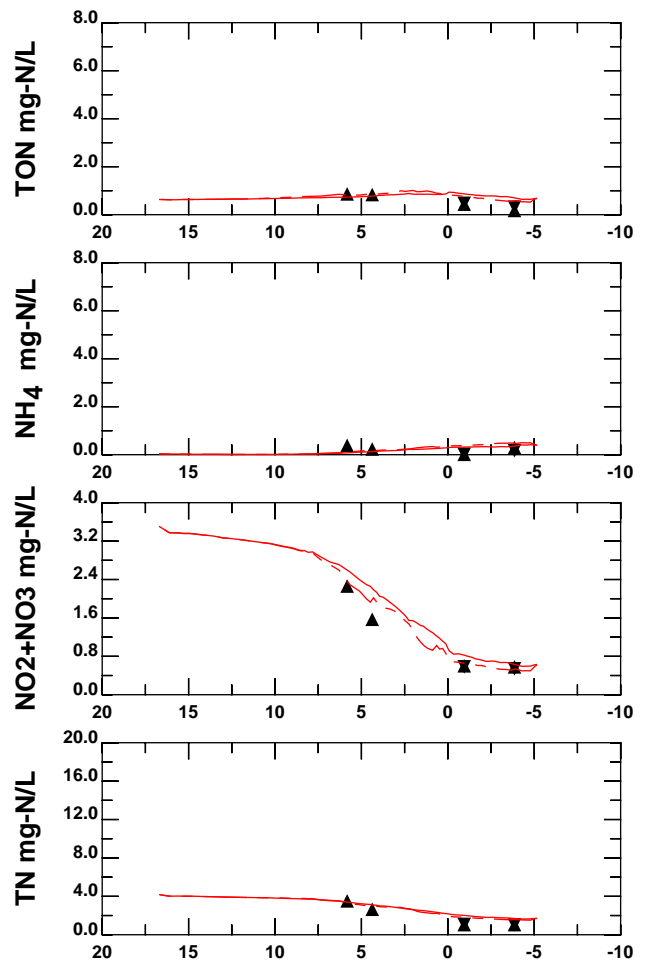
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



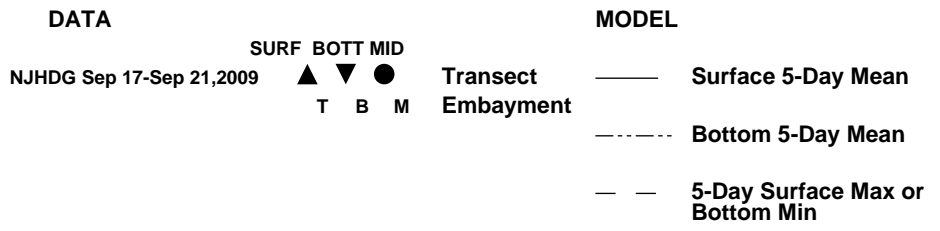
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



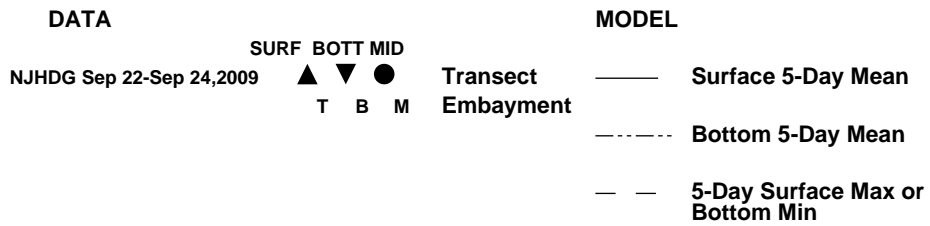
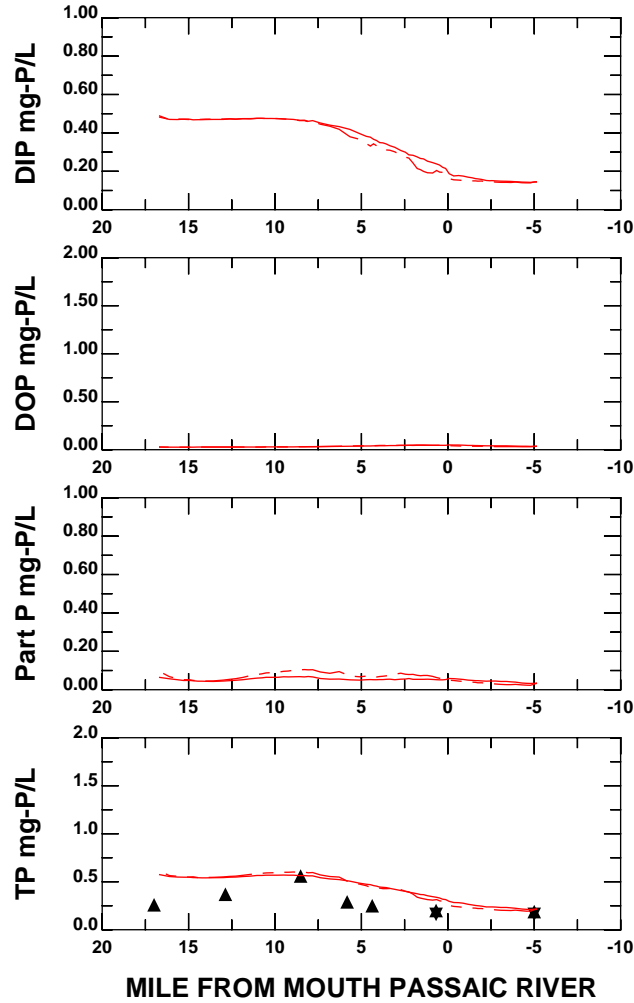
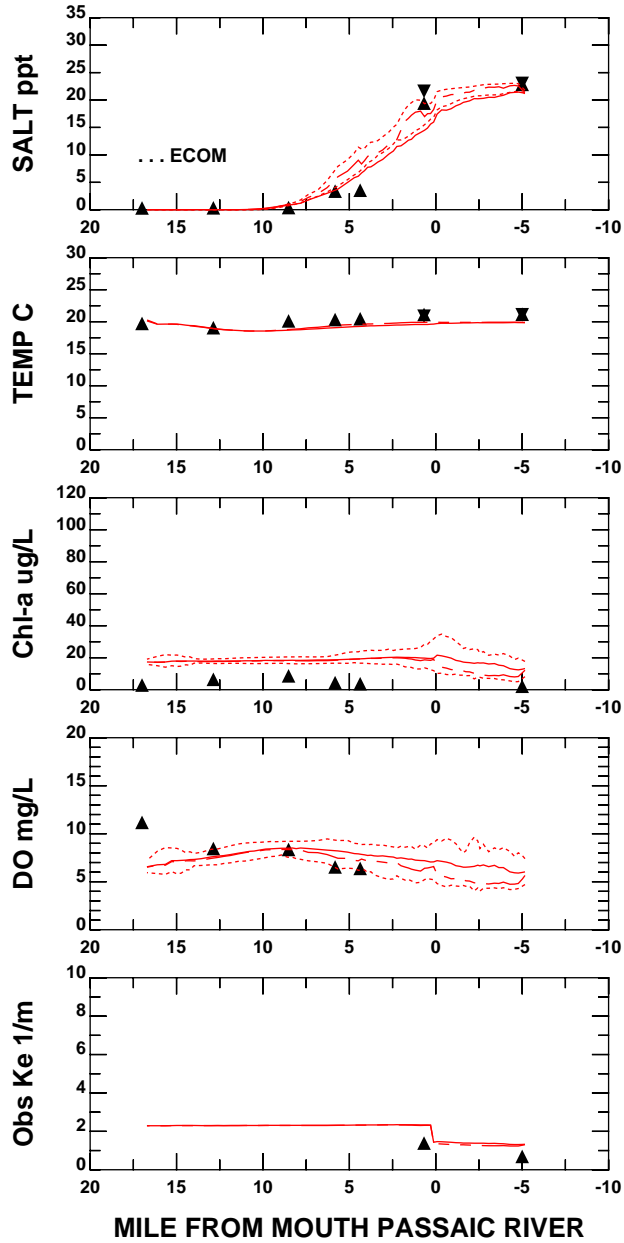
MILE FROM MOUTH PASSAIC RIVER



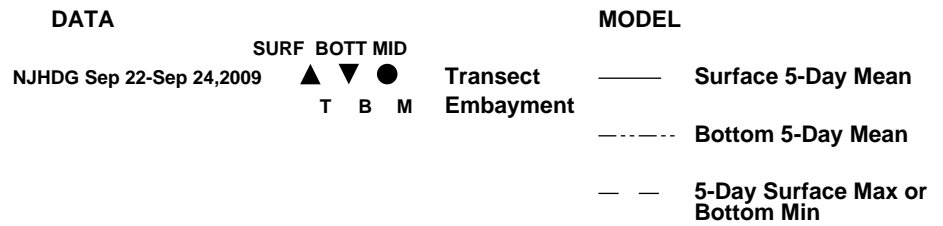
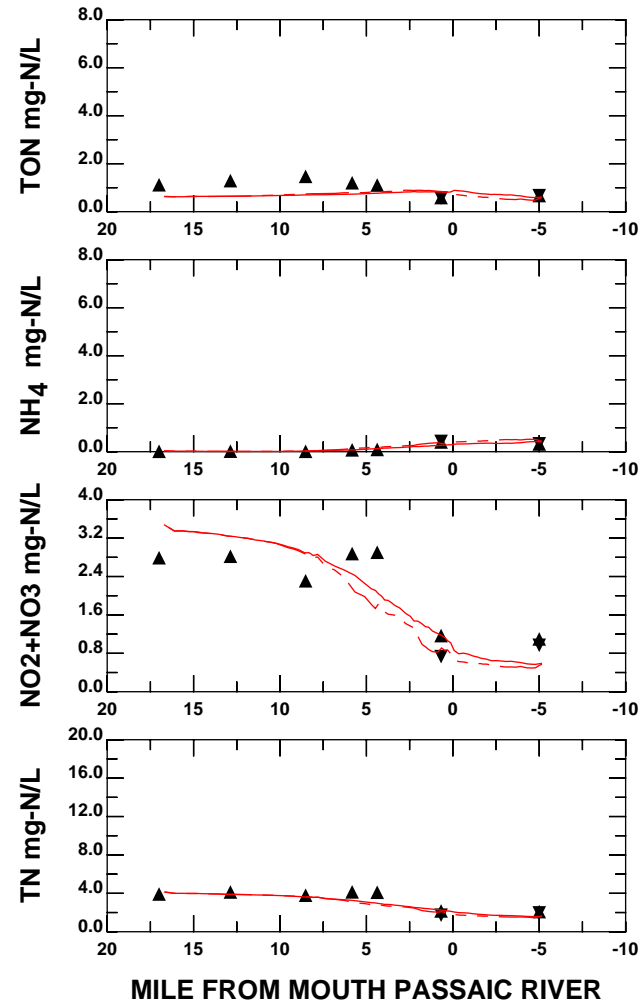
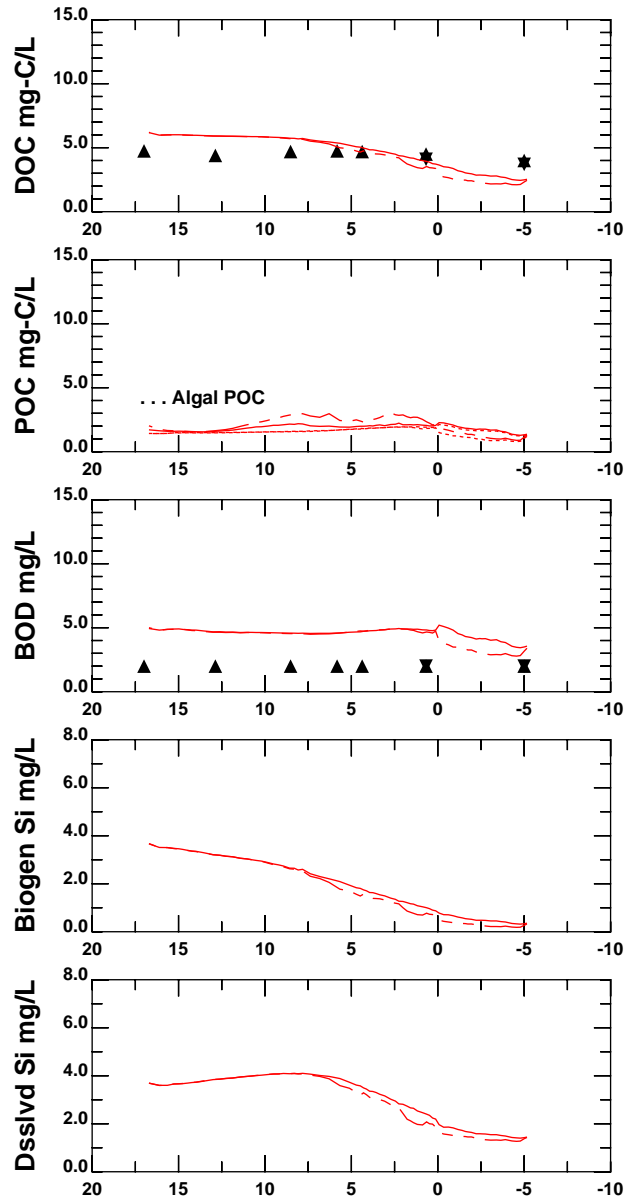
MILE FROM MOUTH PASSAIC RIVER



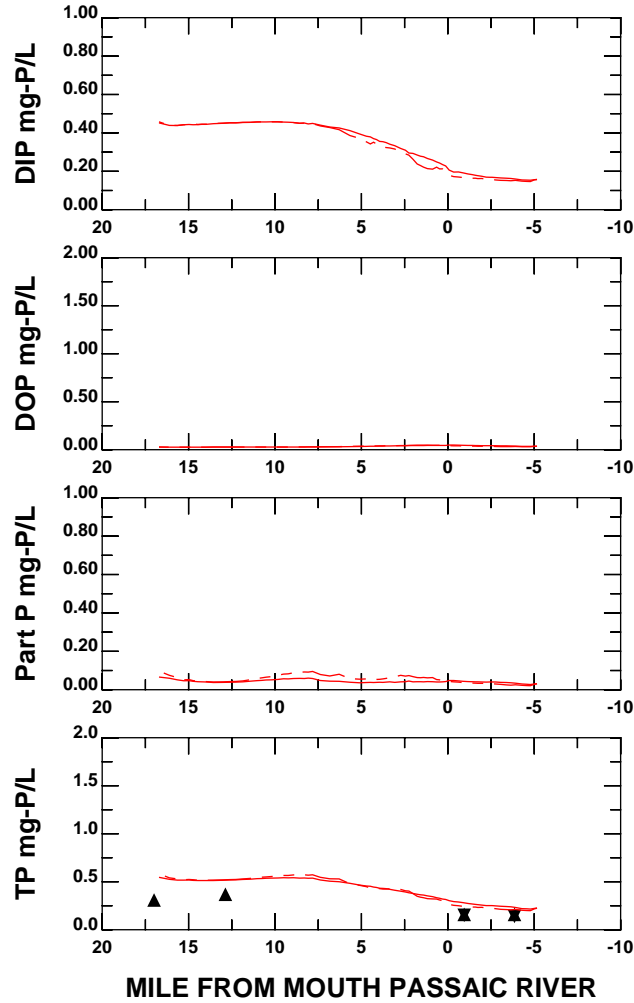
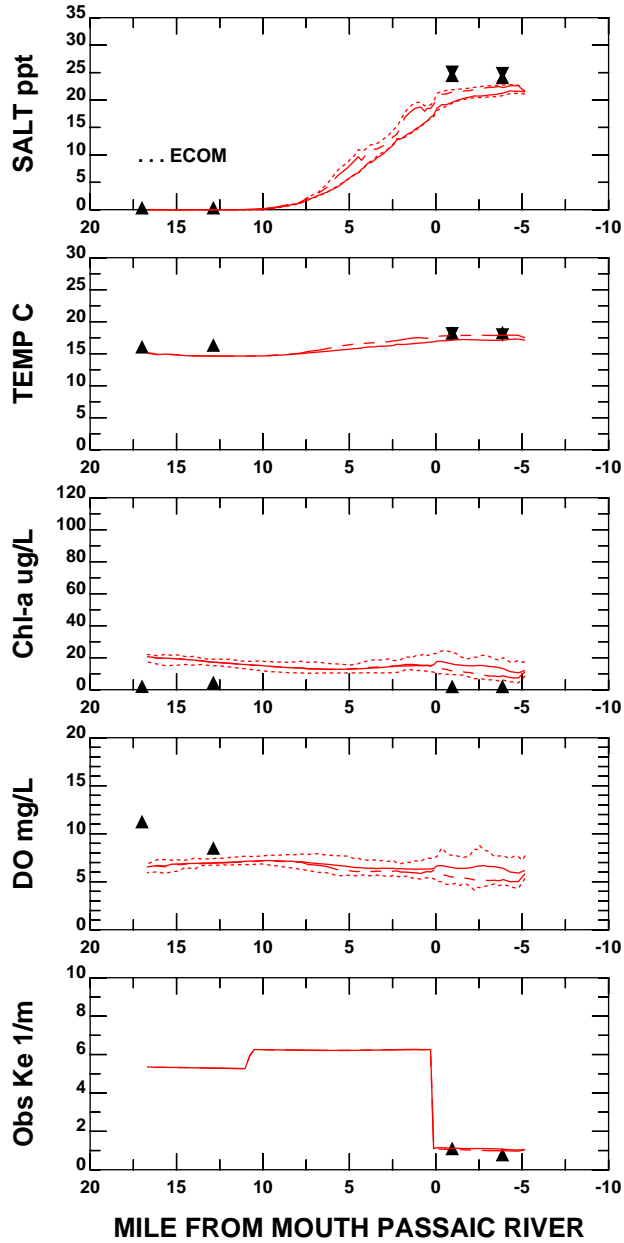
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0809



**DATA**  
NJHDG Oct 06,2009

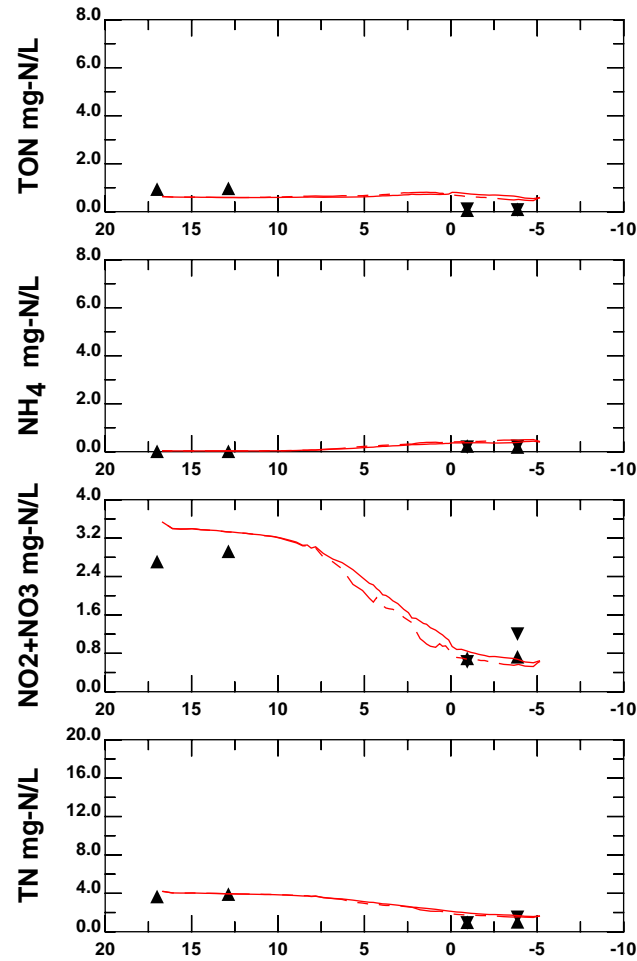
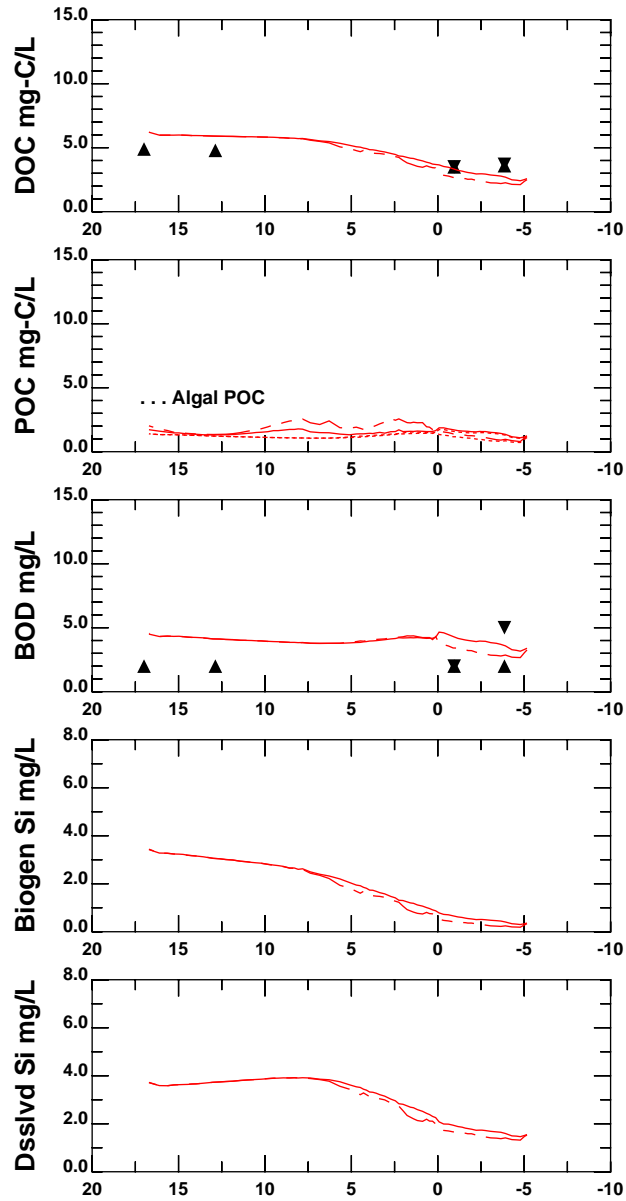
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910





**DATA**

NJHDG Oct 06,2009

SURF BOTT MID

▲ ▼ ●  
T B M

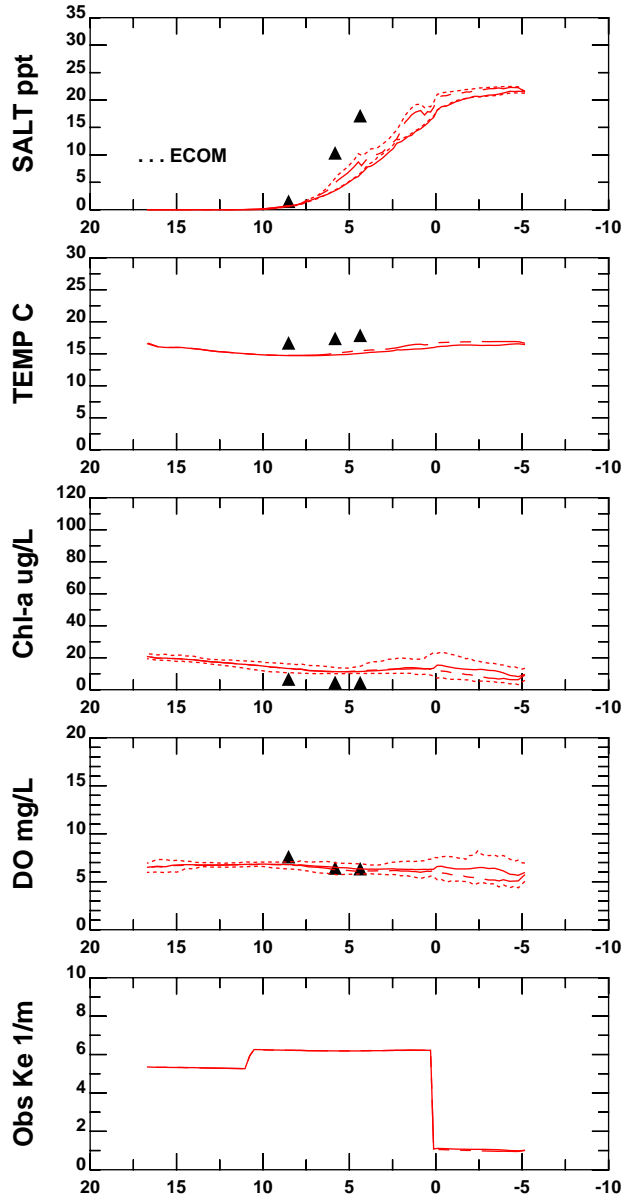
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

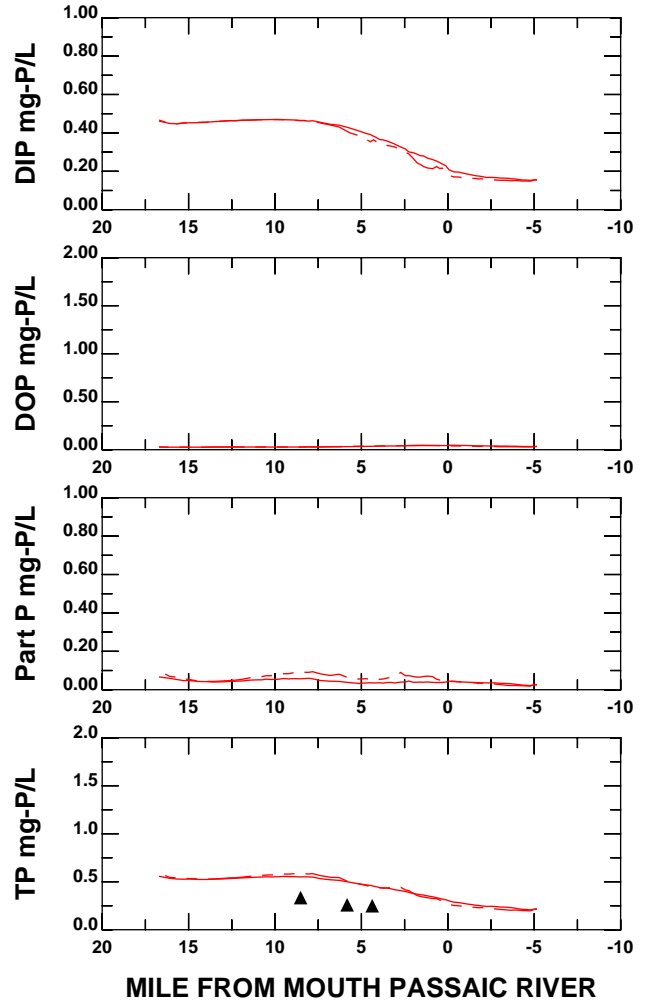
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

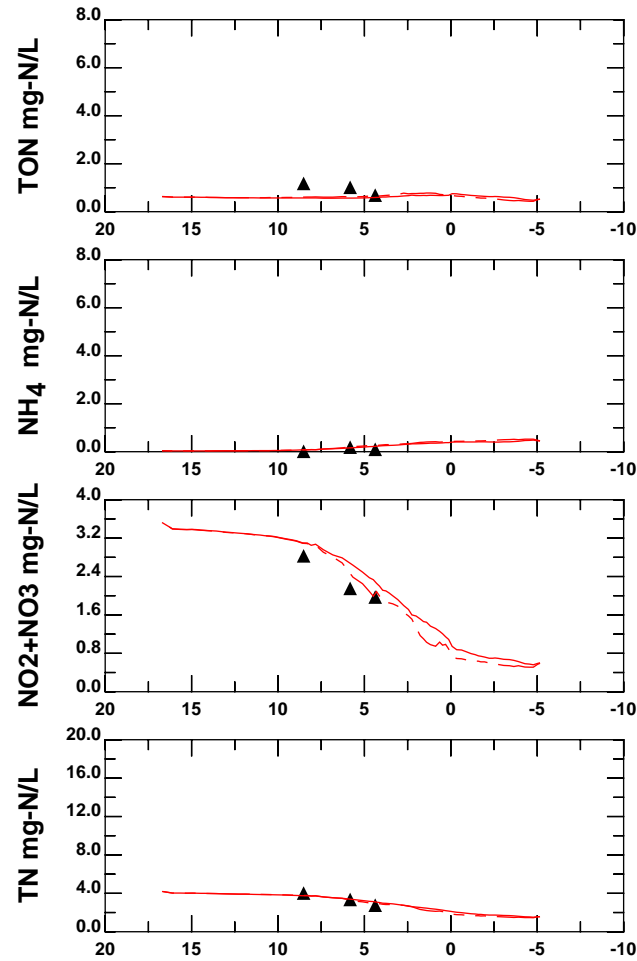
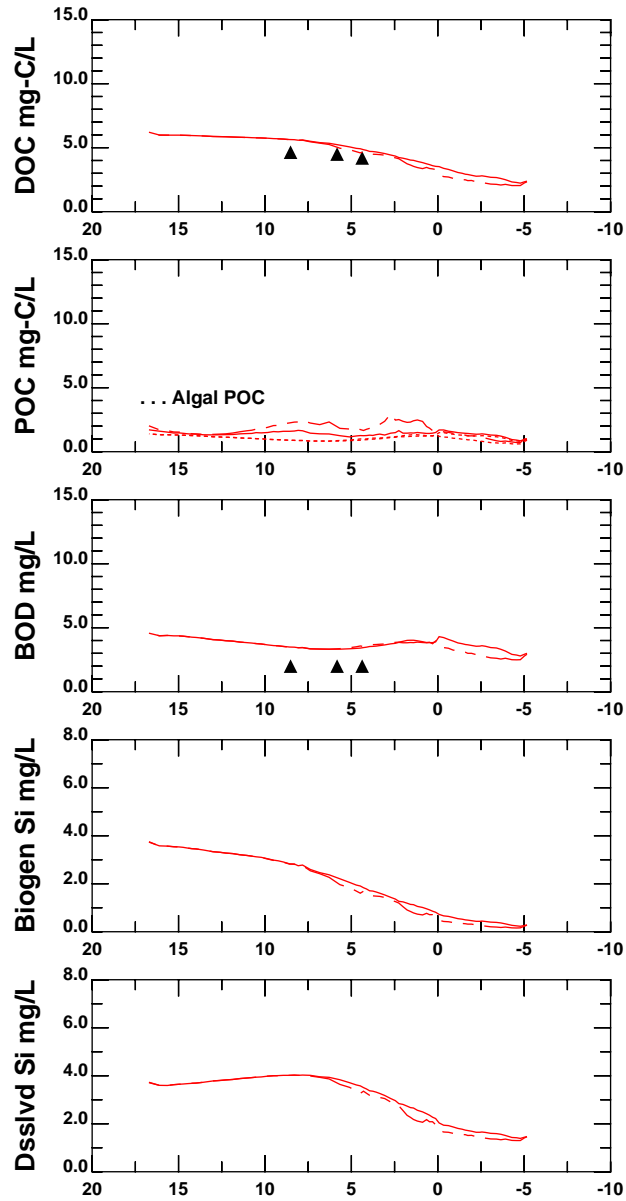


**DATA**  
 NJHDG Oct 07,2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



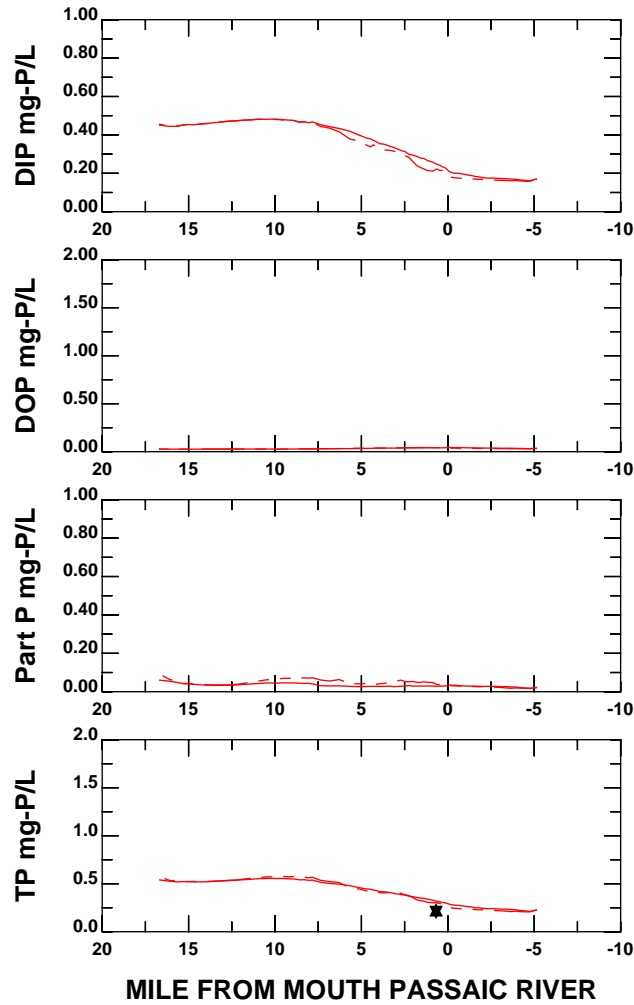
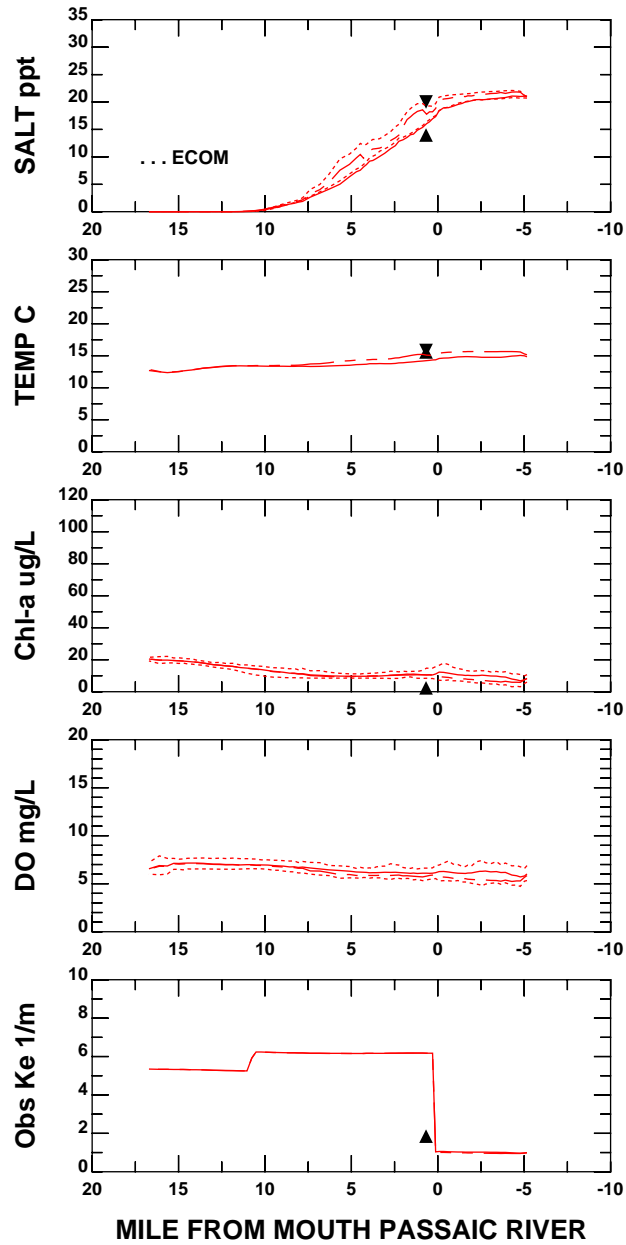
DATA  
NJHDG Oct 07,2009

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



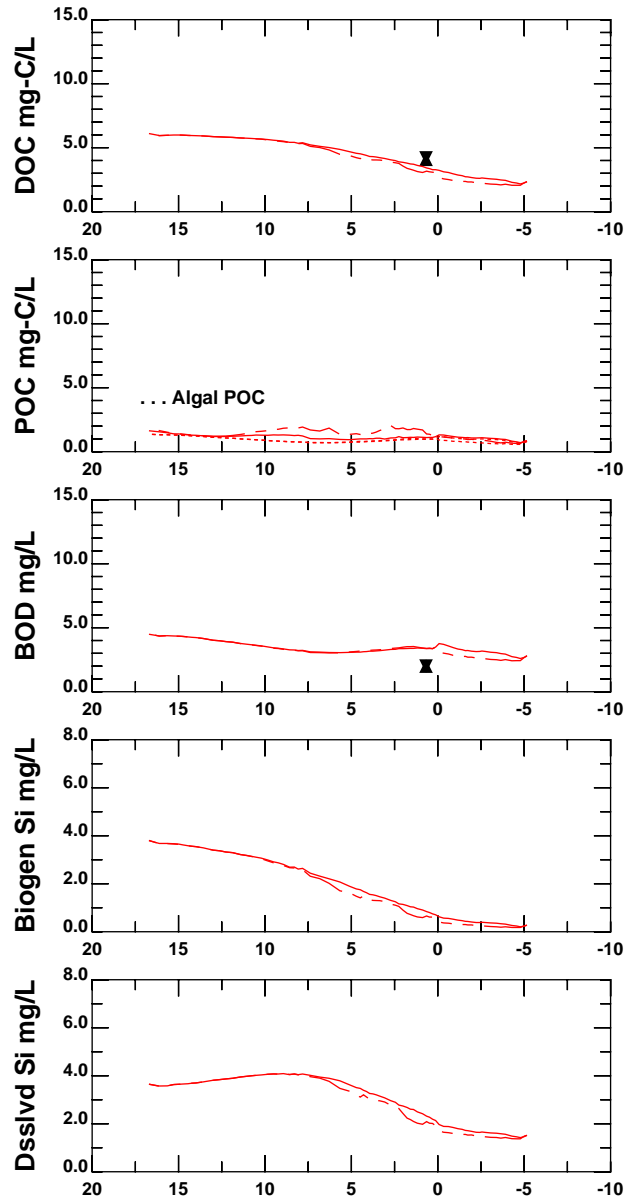
**DATA**  
NJHGD Oct 14,2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

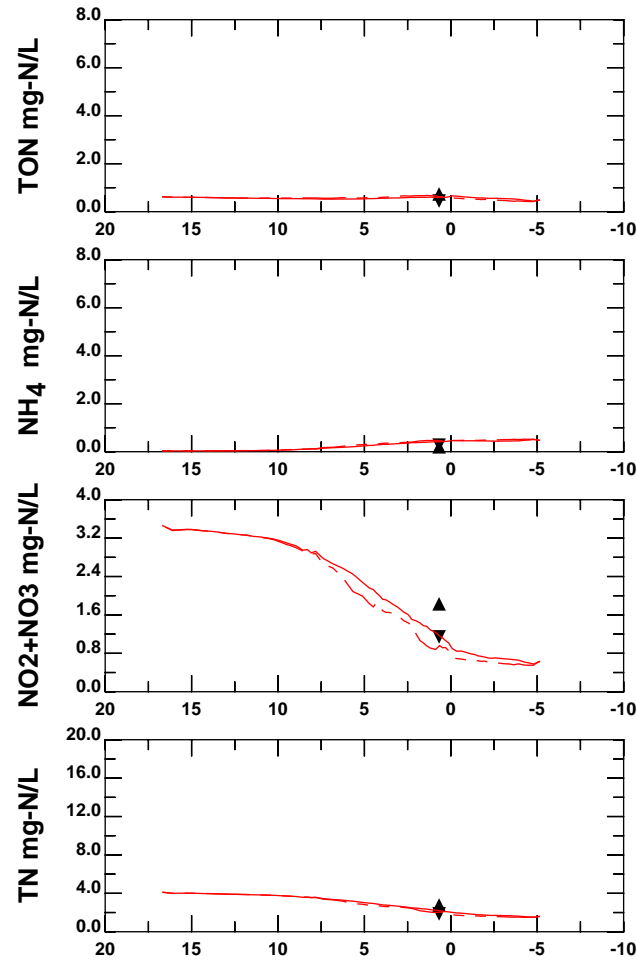
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Oct 14,2009

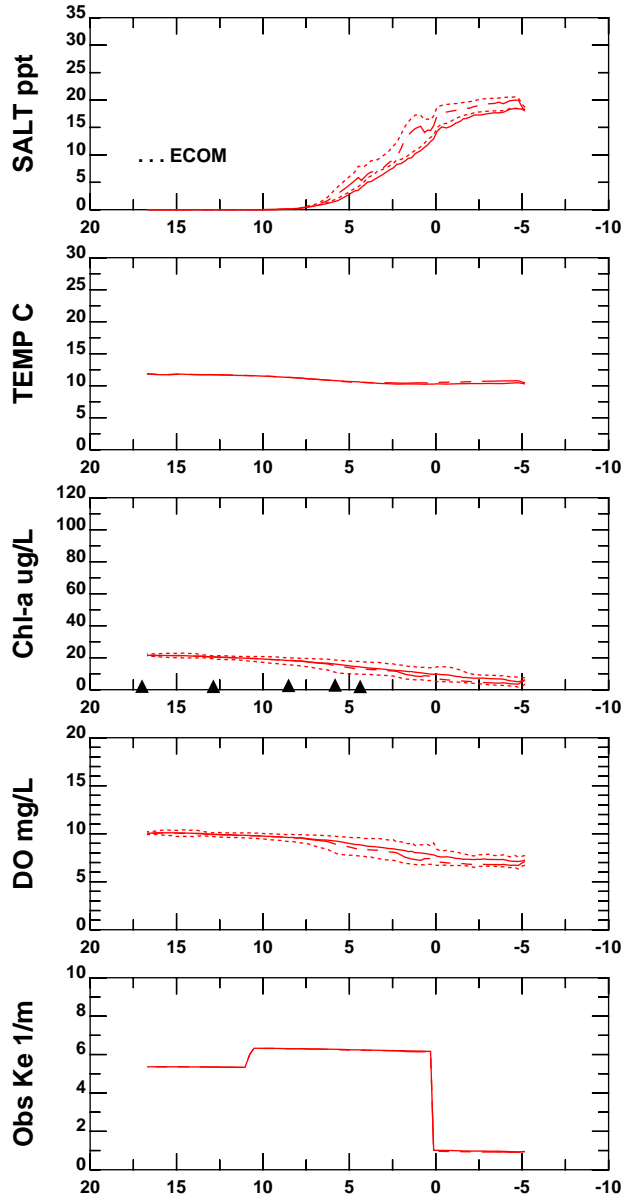
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

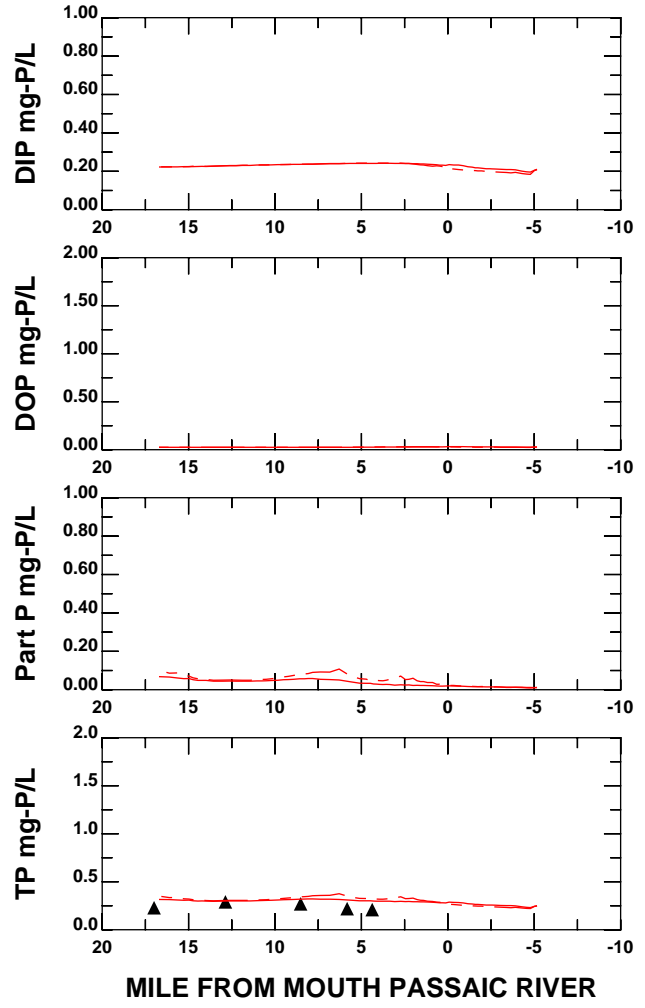
#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - . - 5-Day Surface Max or Bottom Min

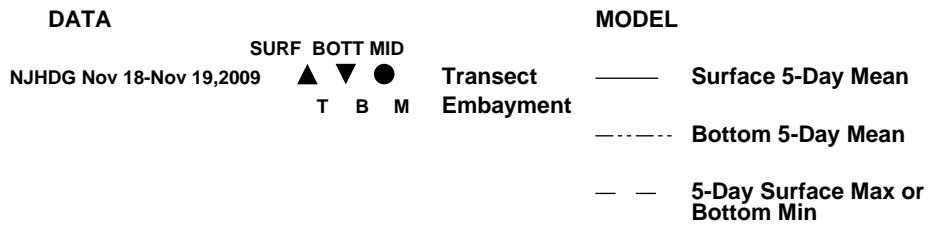


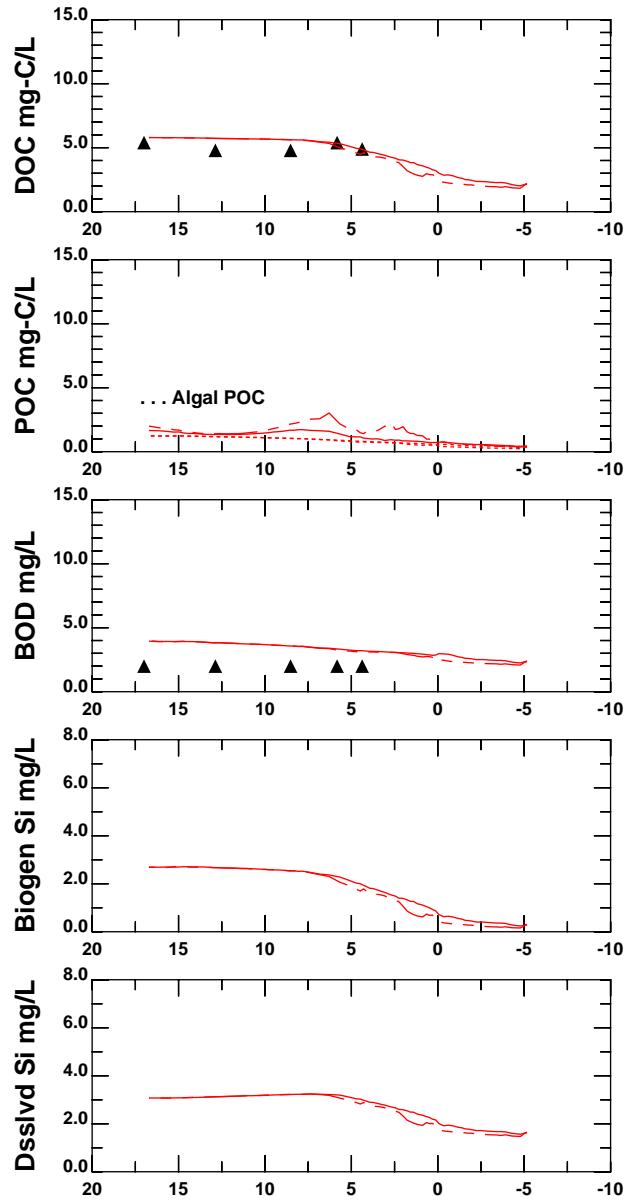
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

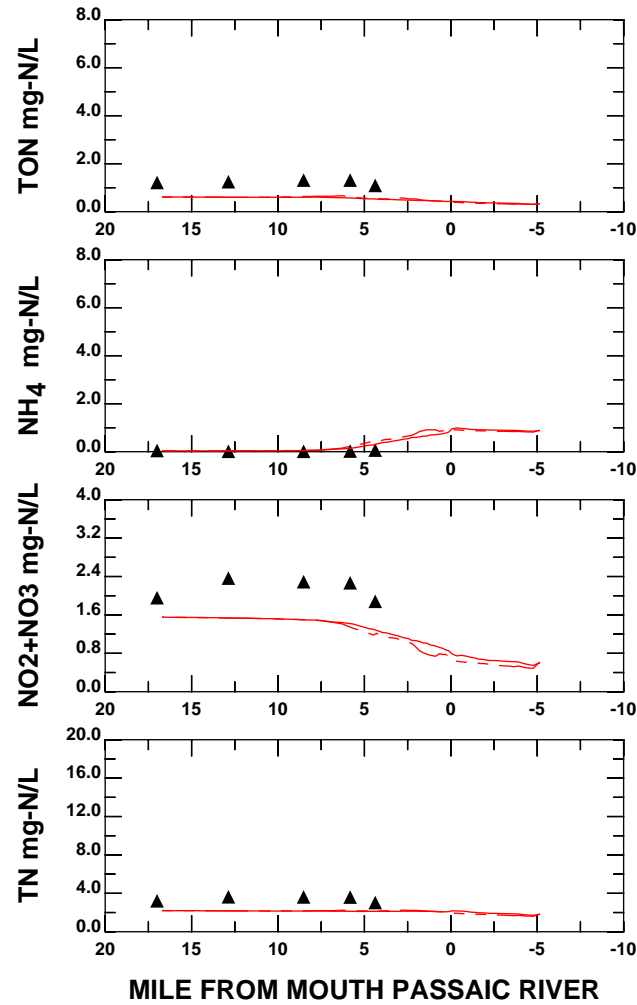




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



DATA

NJHDG Nov 18-Nov 19, 2009

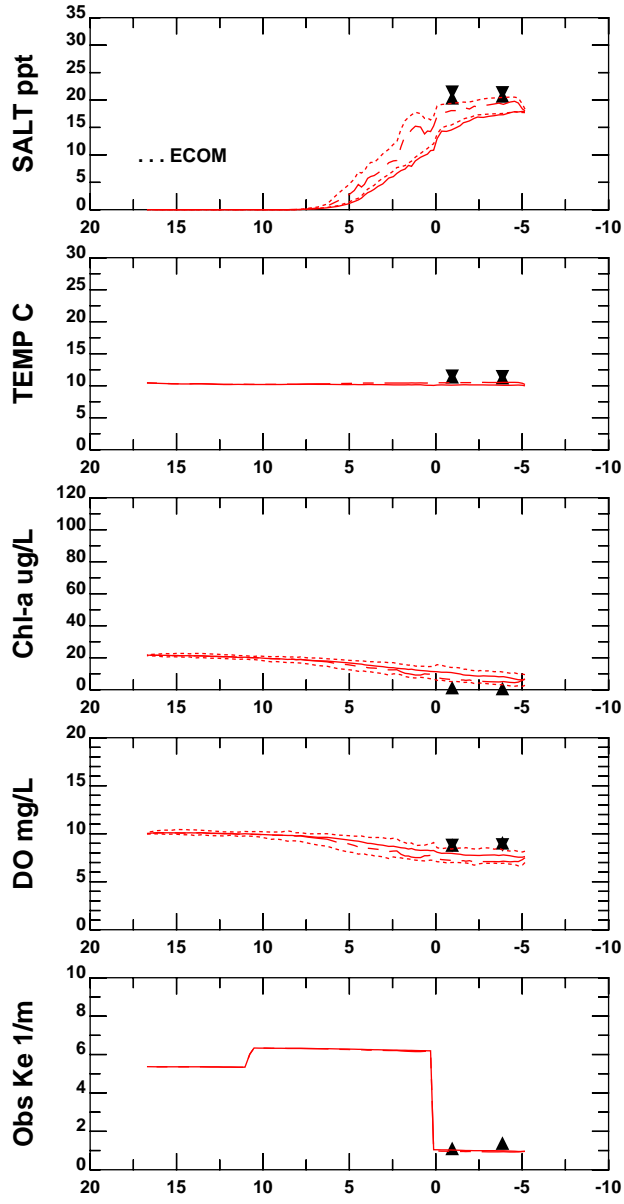
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

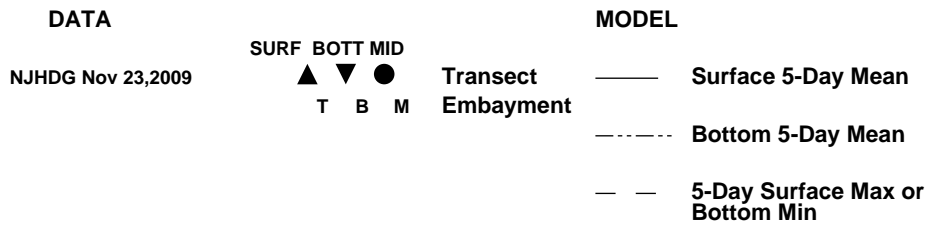
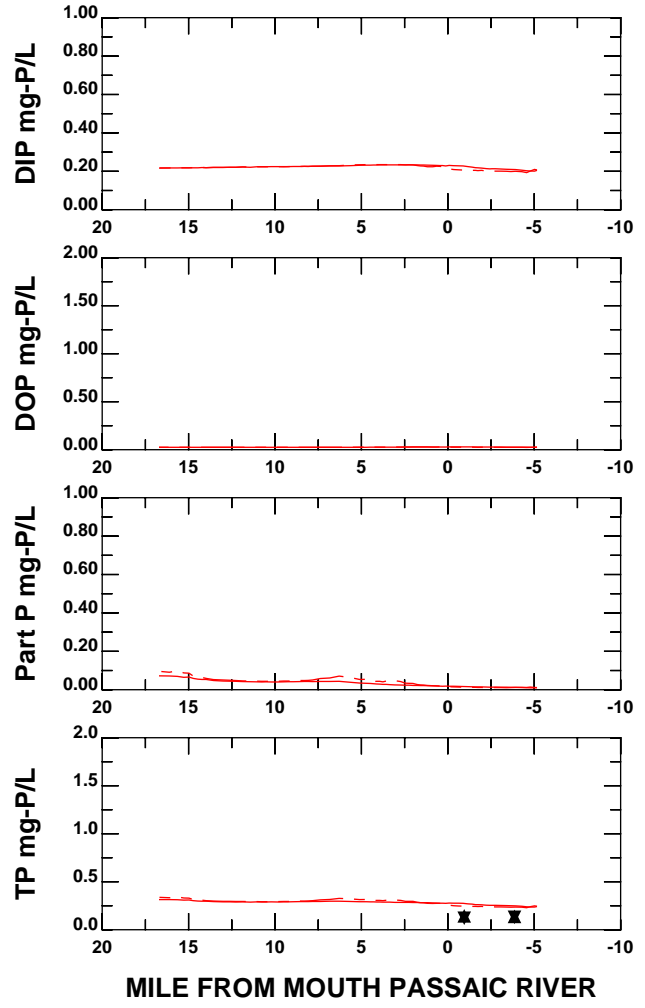
MODEL

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

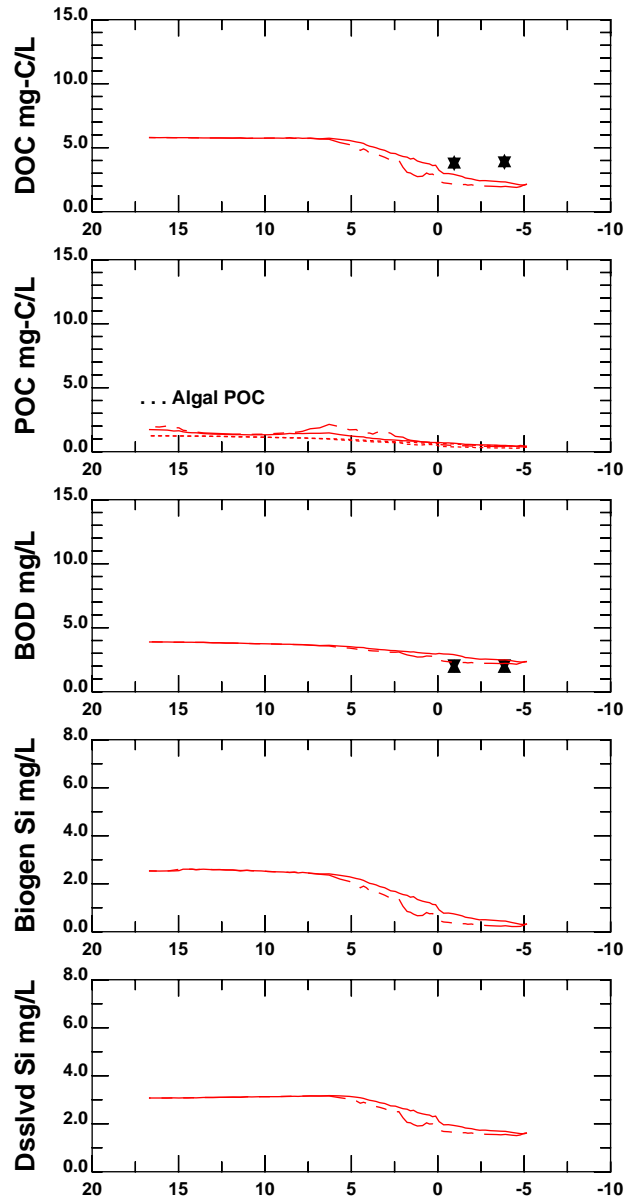


MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



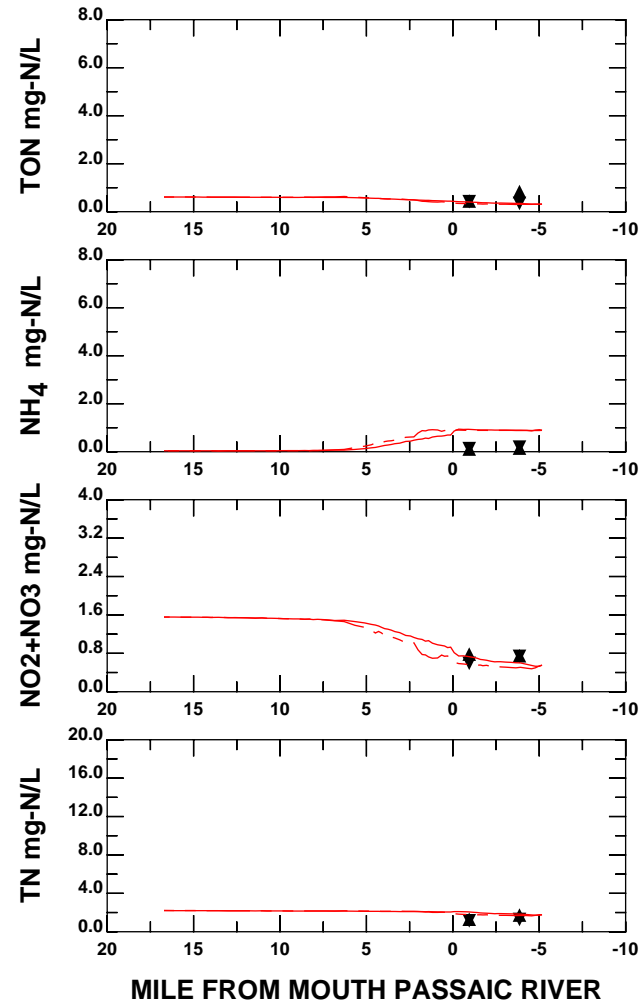




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Nov 23,2009

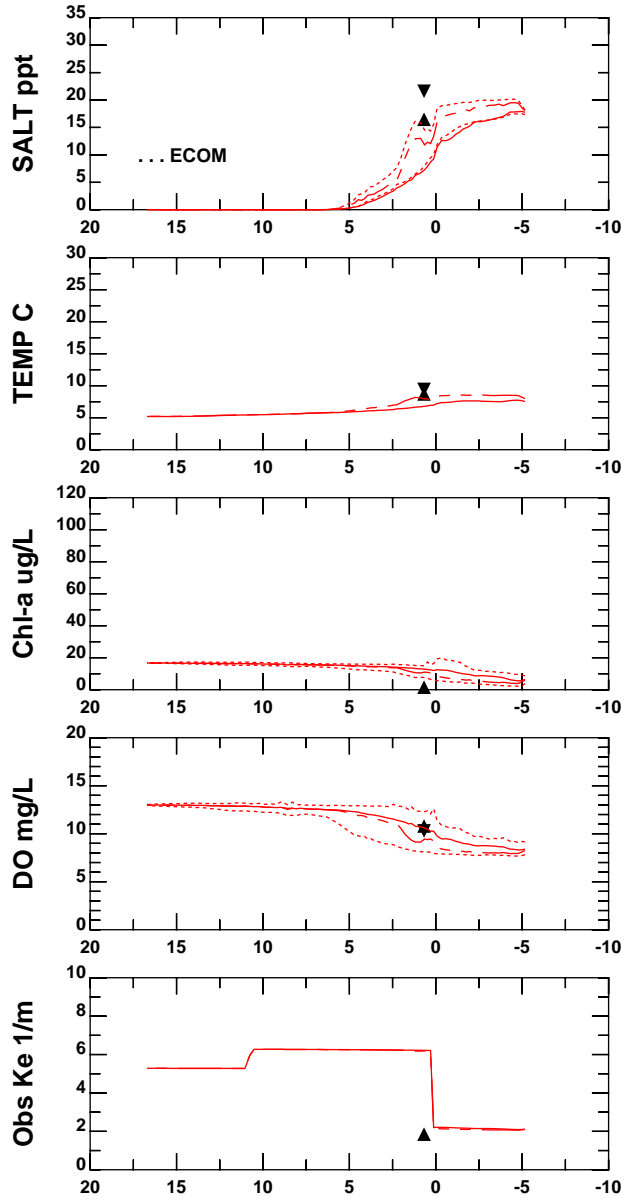
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

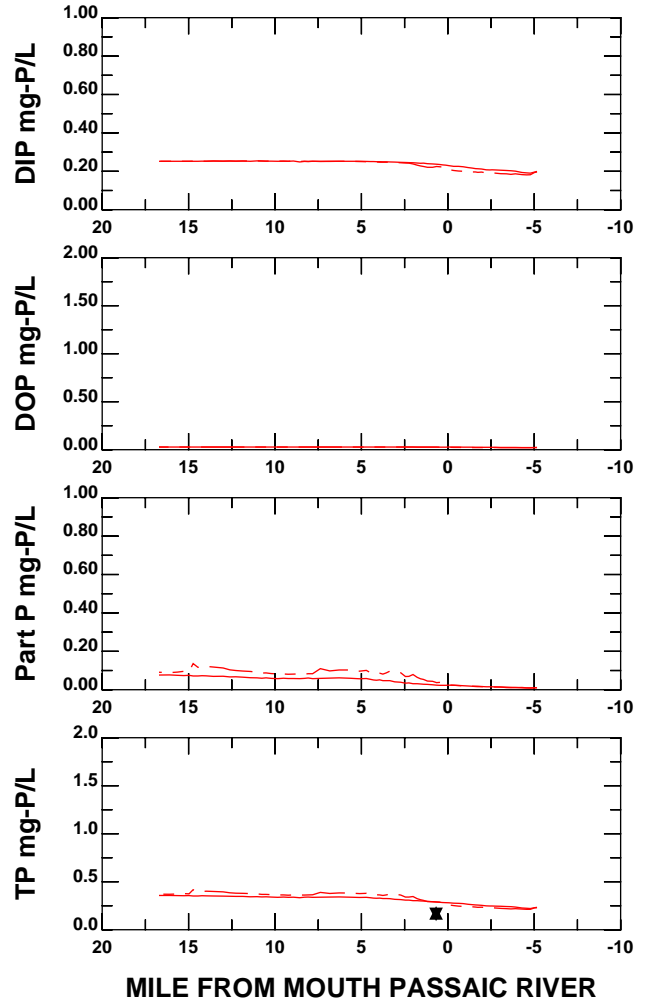
#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - . - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

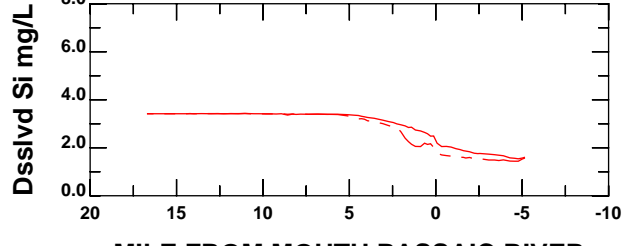
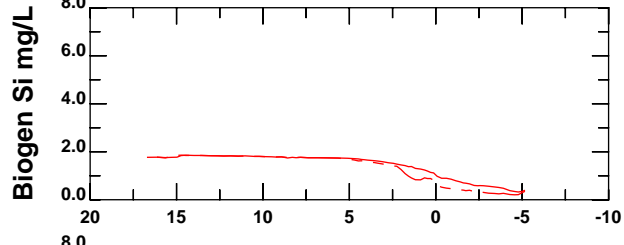
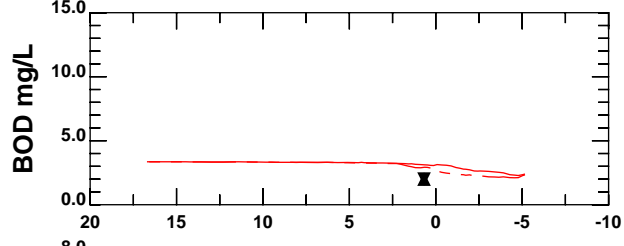
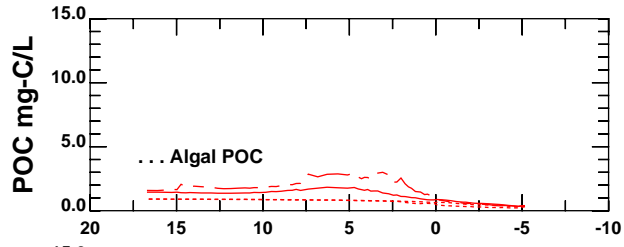
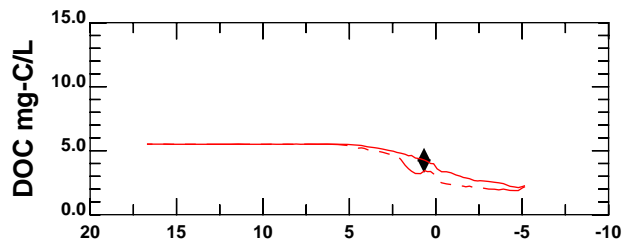


DATA  
 NJHGD Dec 07,2009

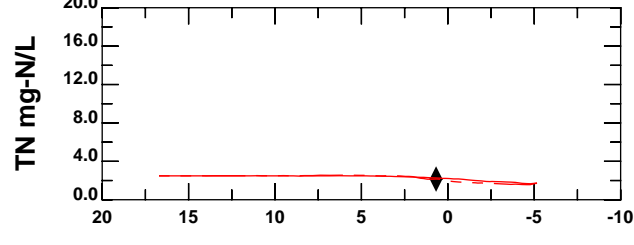
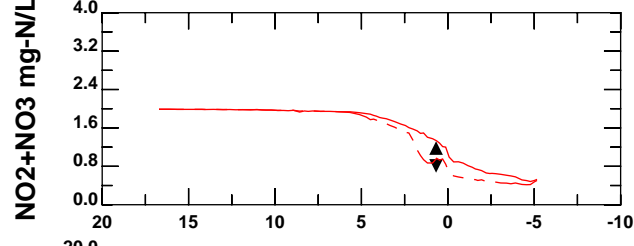
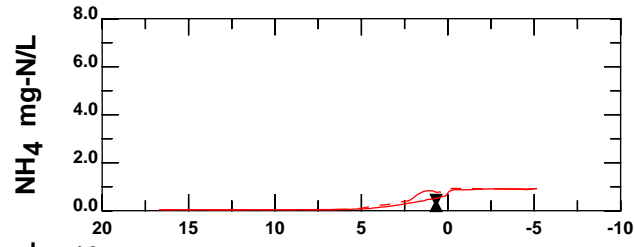
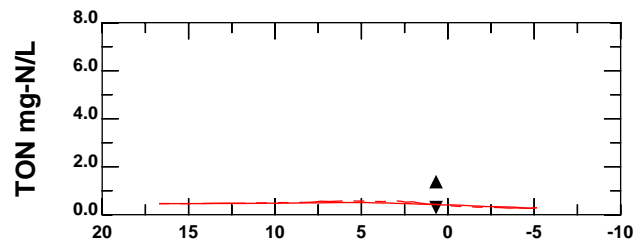
MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

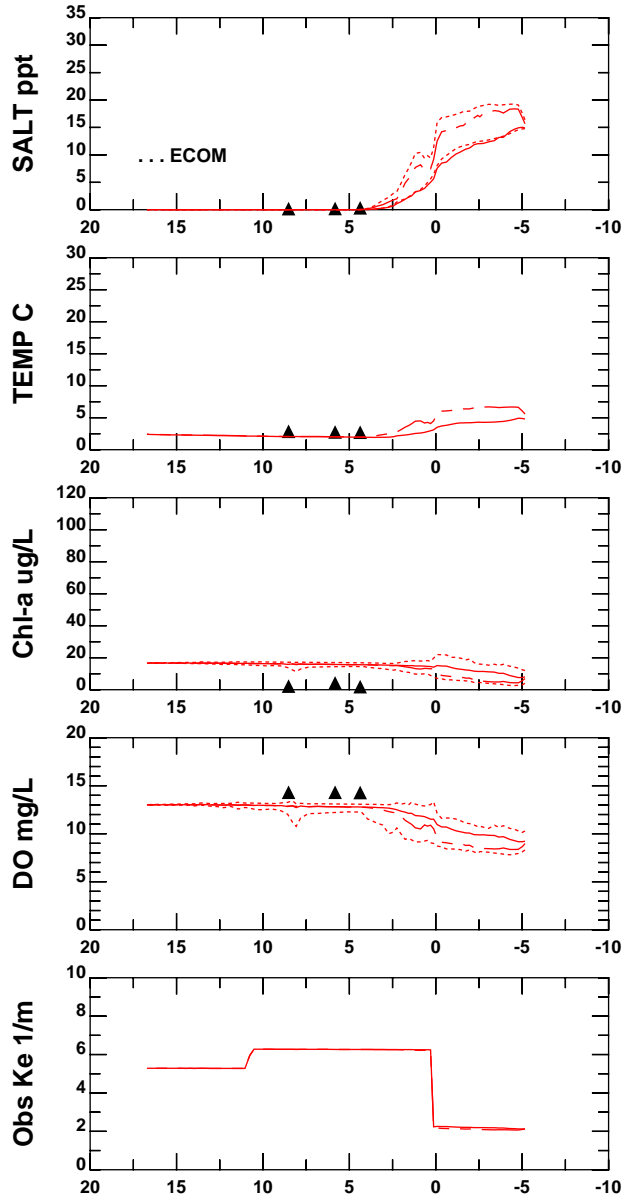
DATA  
NJHGD Dec 07,2009

SURF BOTT MID  
▲ ▼ ●  
T B M

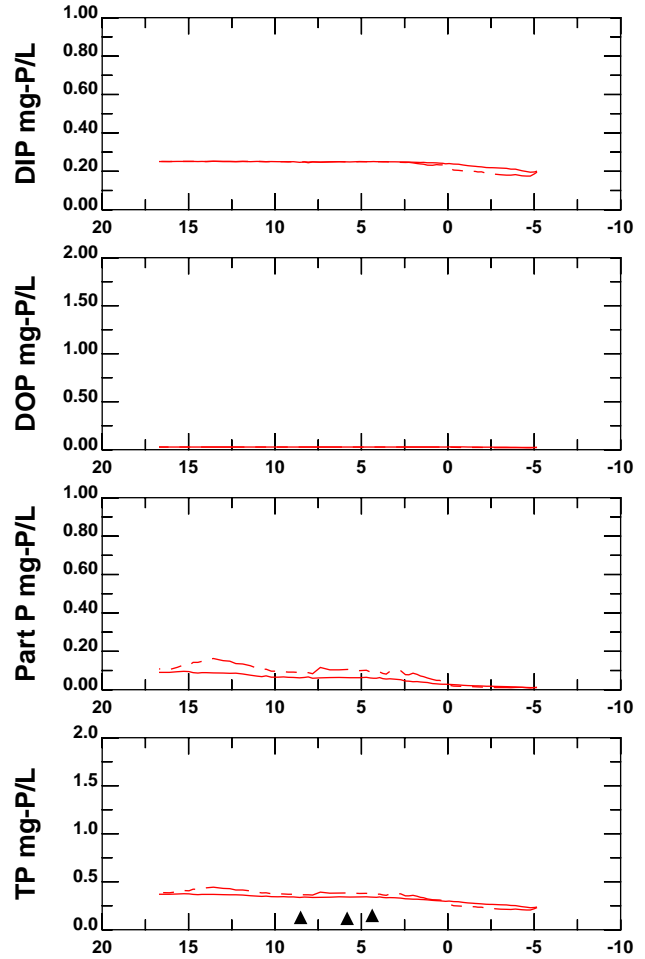
Transect  
Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER



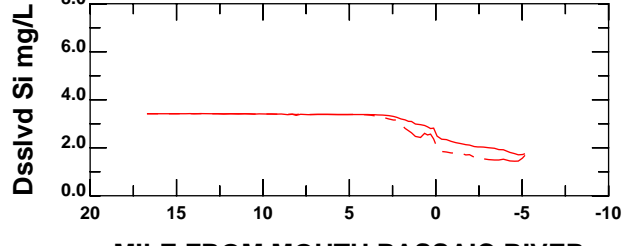
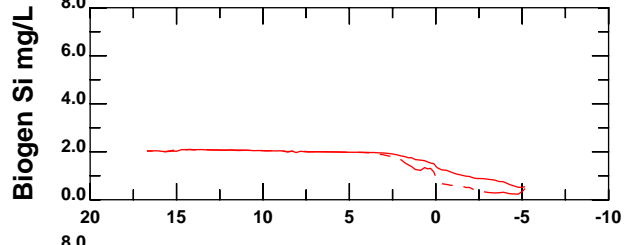
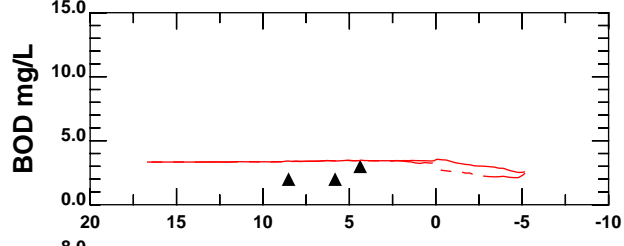
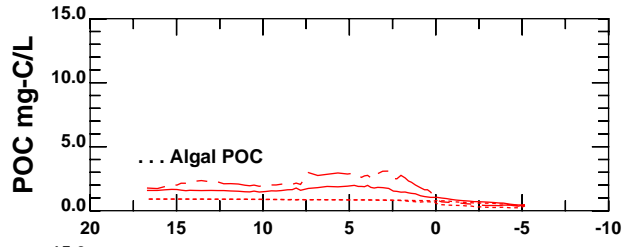
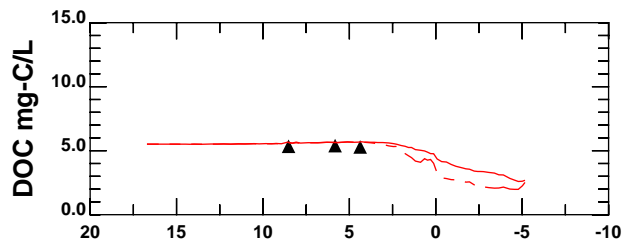
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHGD Dec 15,2009

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

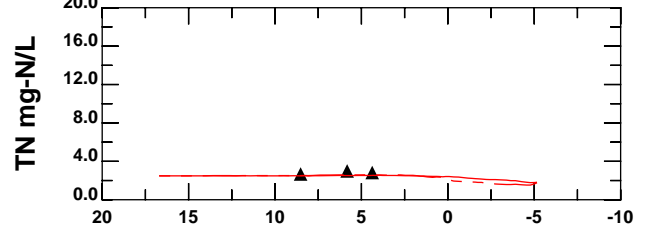
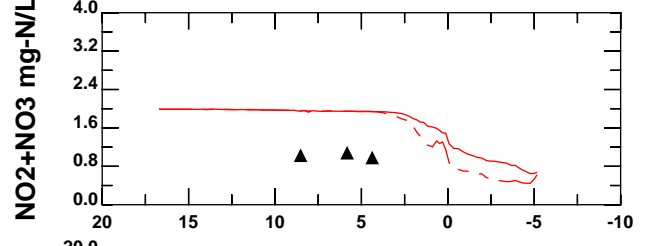
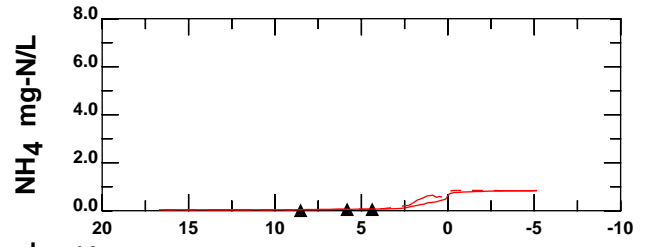
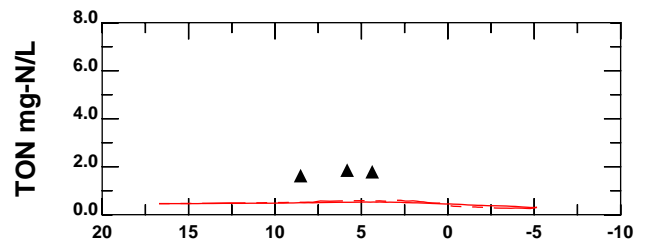
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

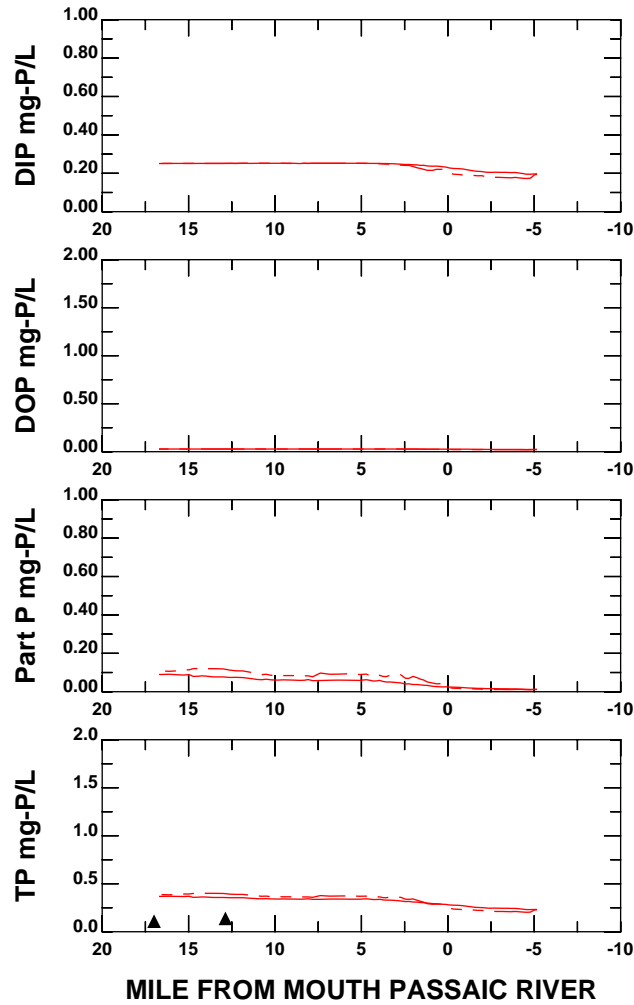
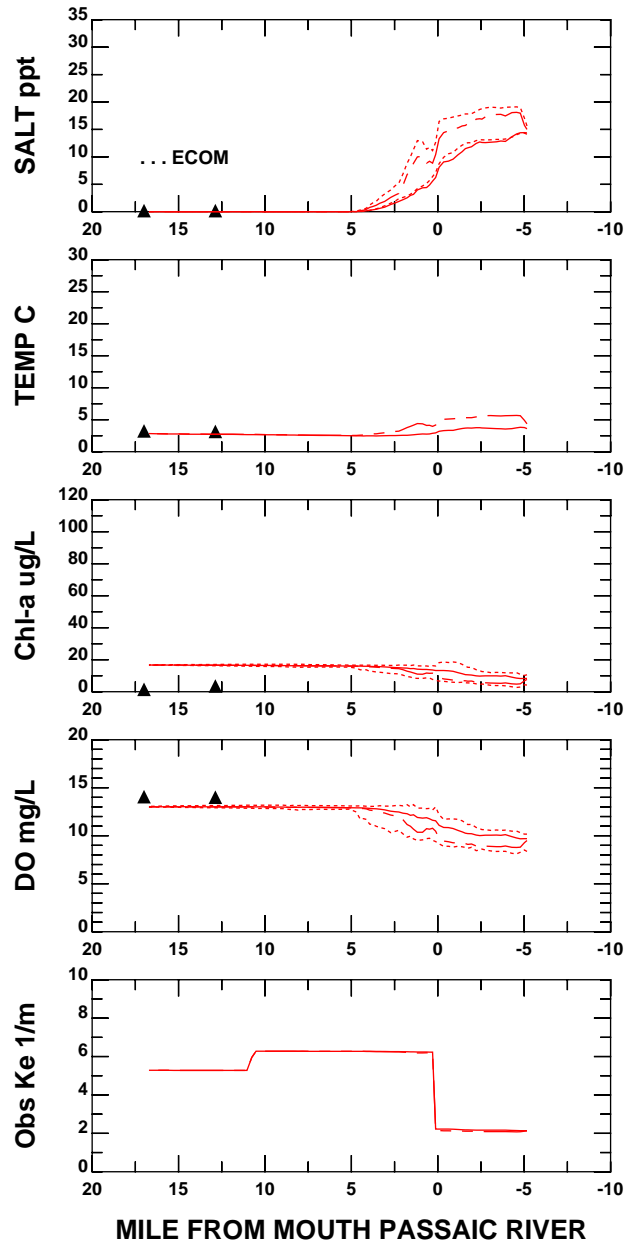
DATA  
NJHGD Dec 15,2009

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



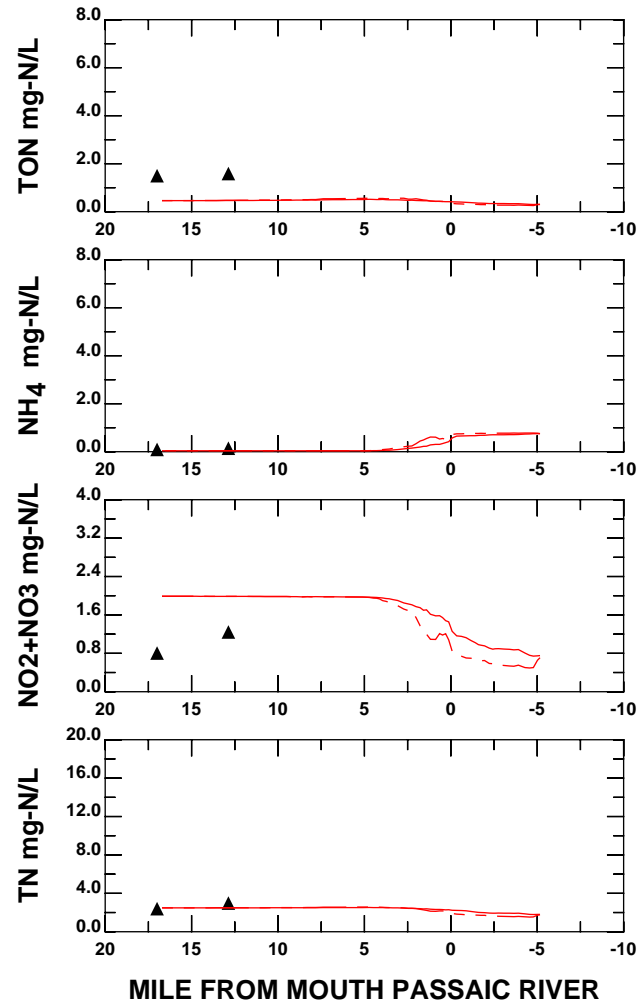
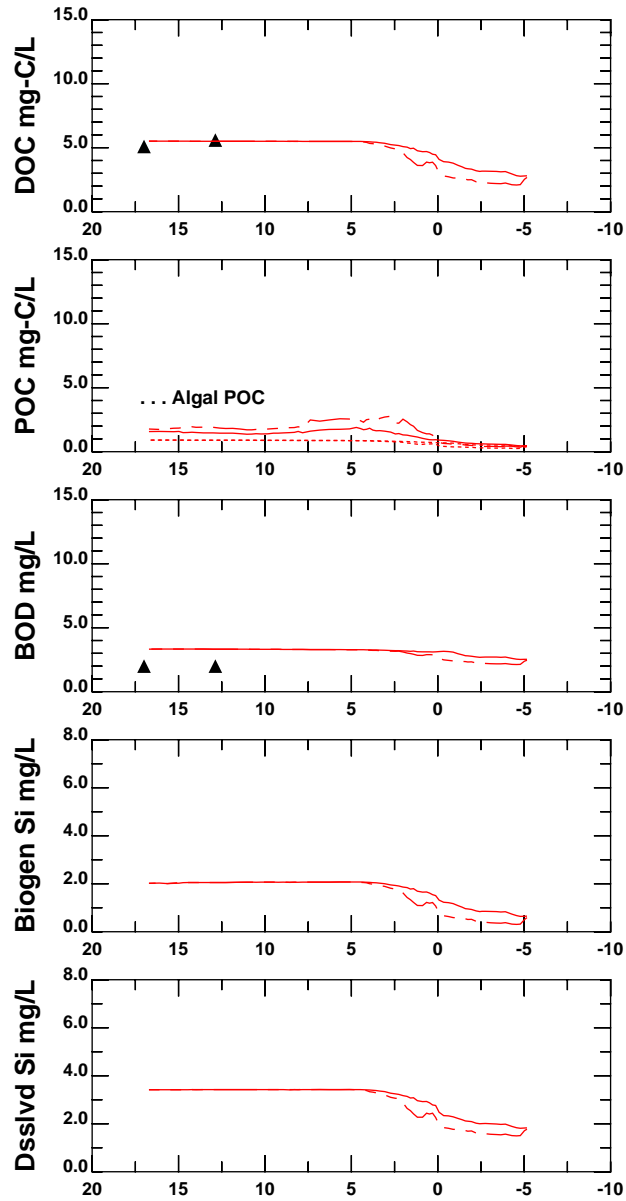
**DATA**  
NJHDG Dec 16, 2009

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

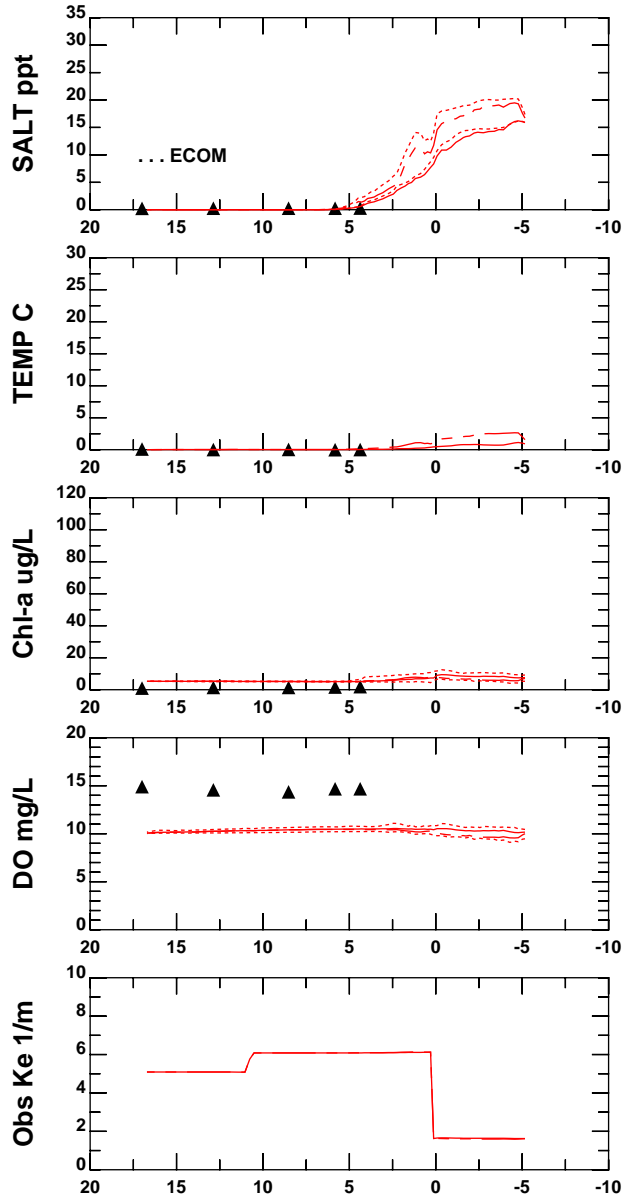


DATA  
NJHDG Dec 16, 2009

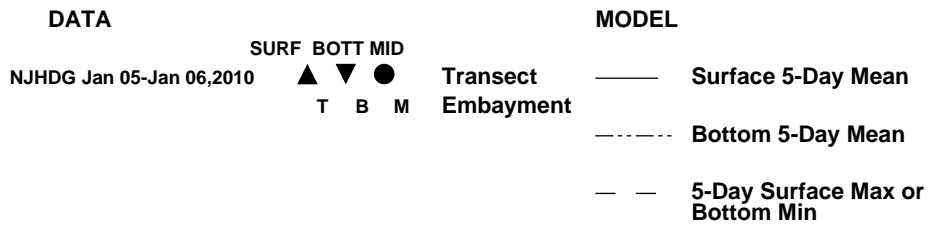
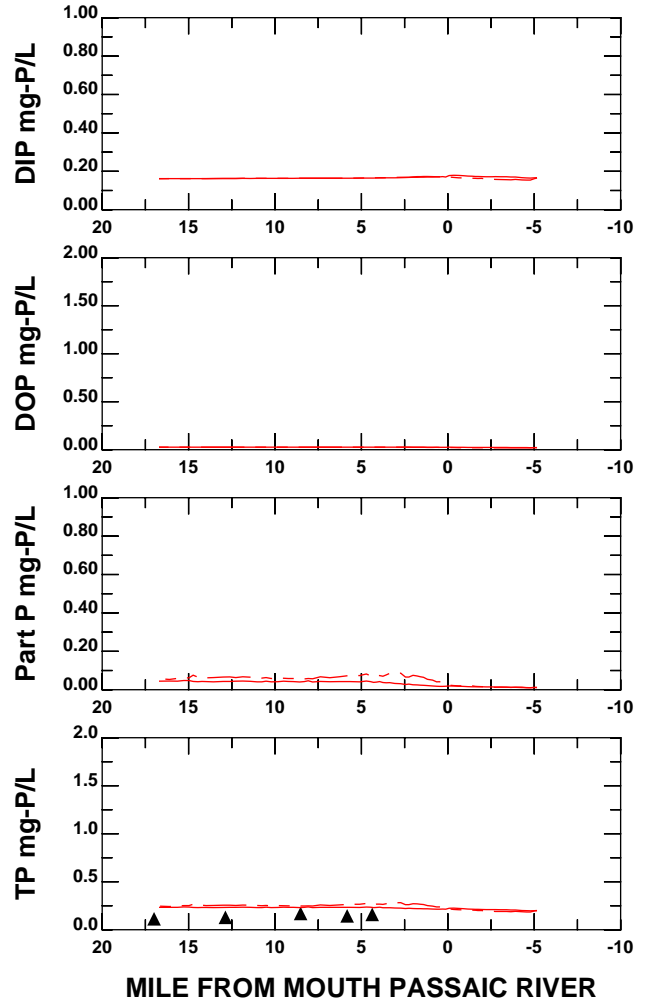
SURF BOTT MID  
▲ ▼ ●  
T B M  
Transect  
Embayment

MODEL  
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

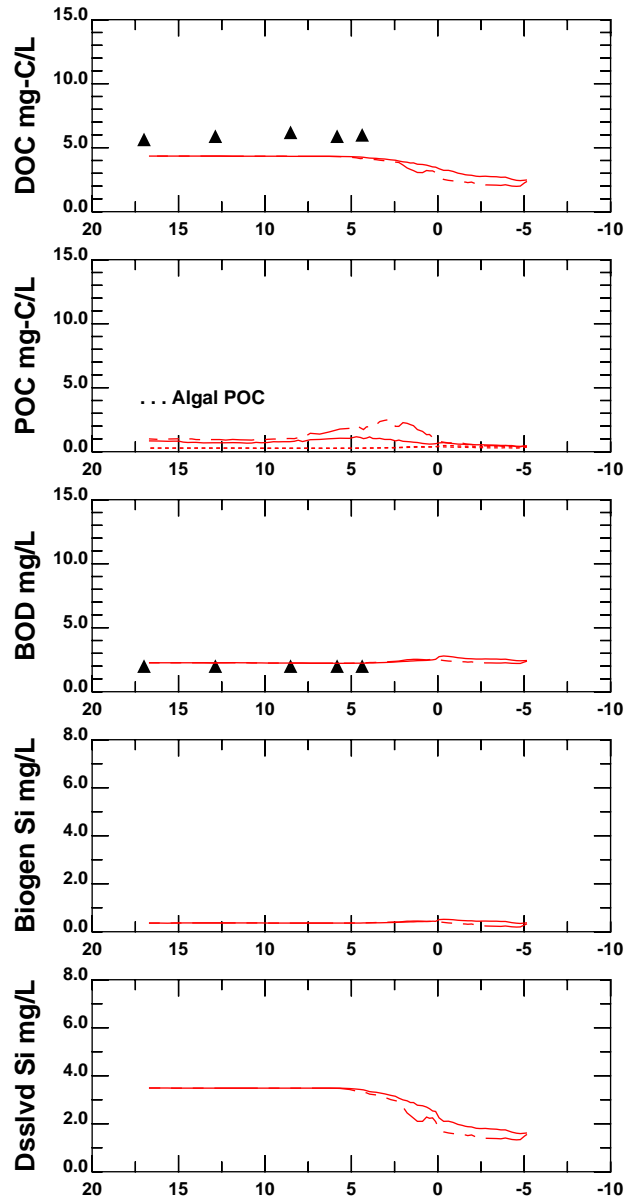
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



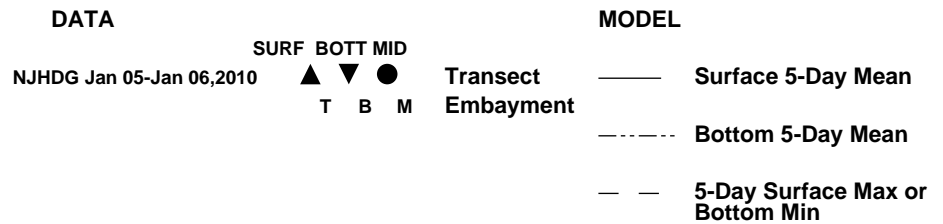
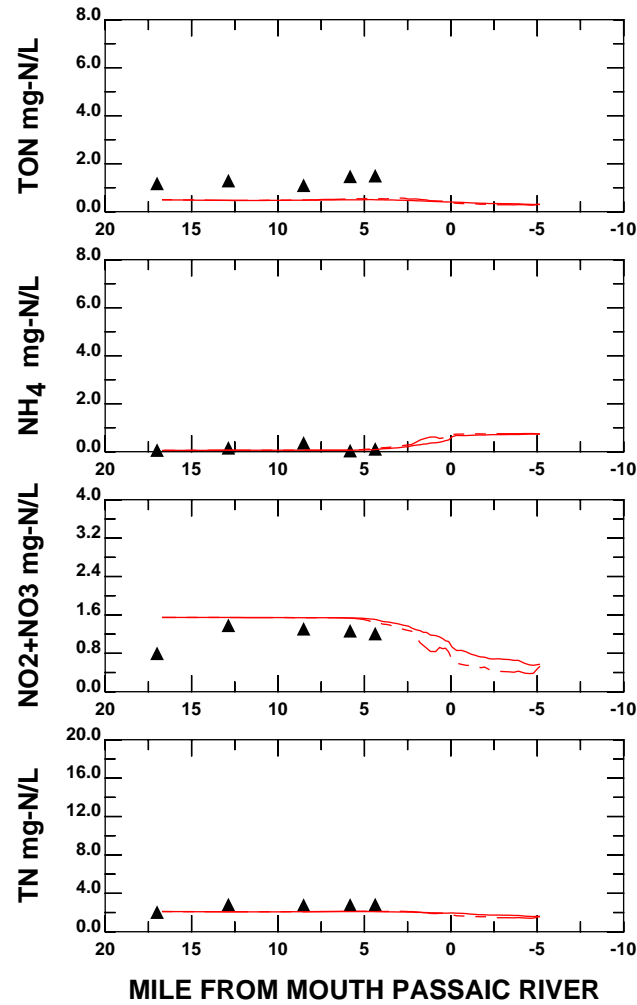
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

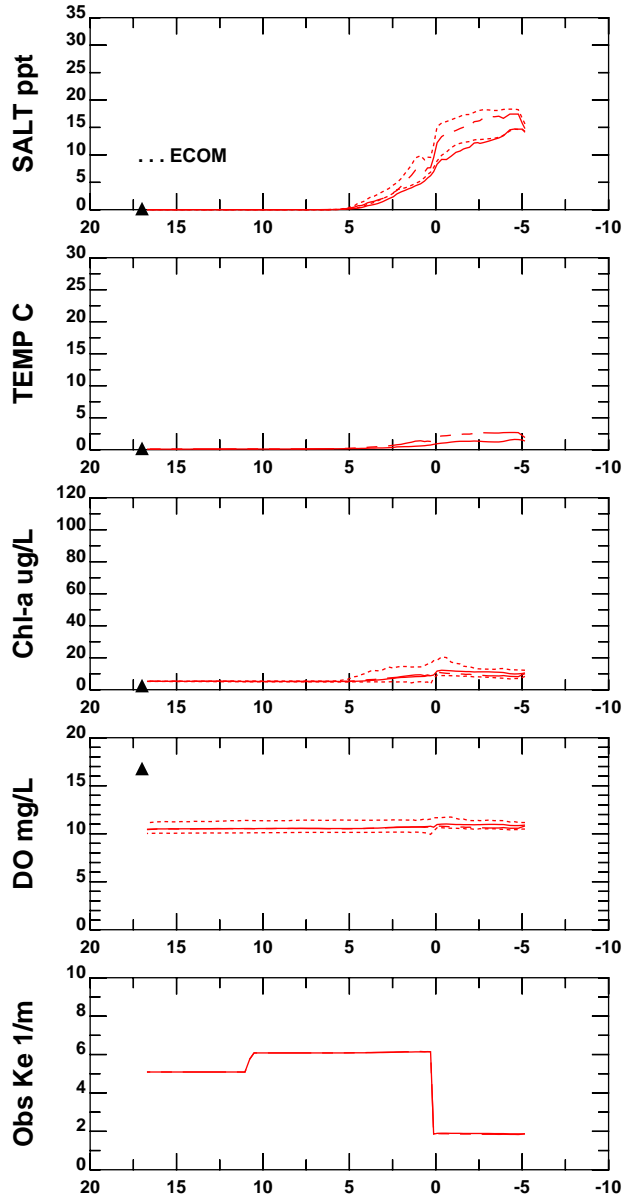




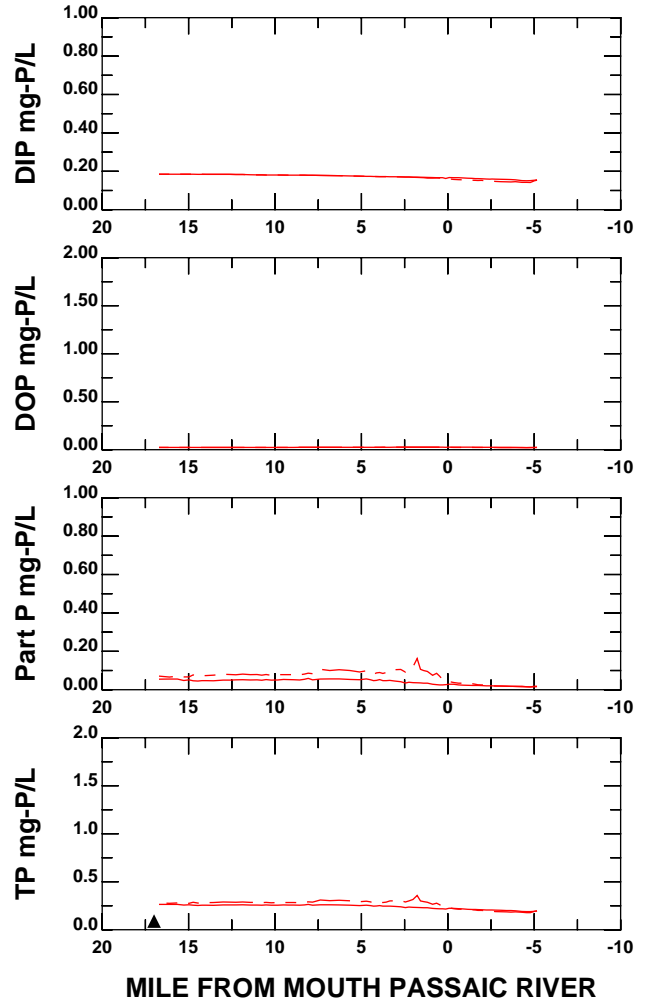


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

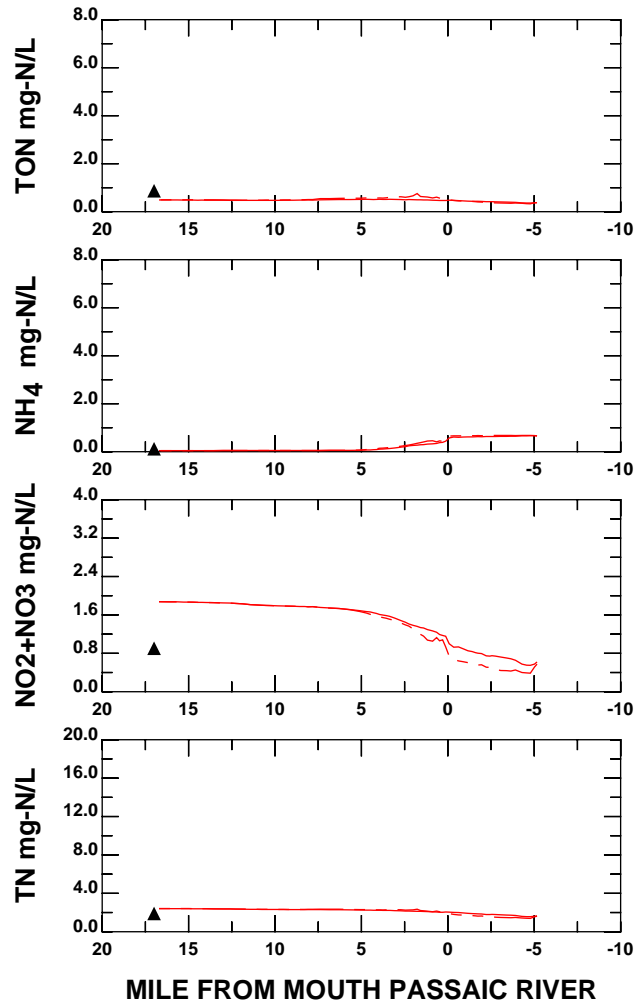
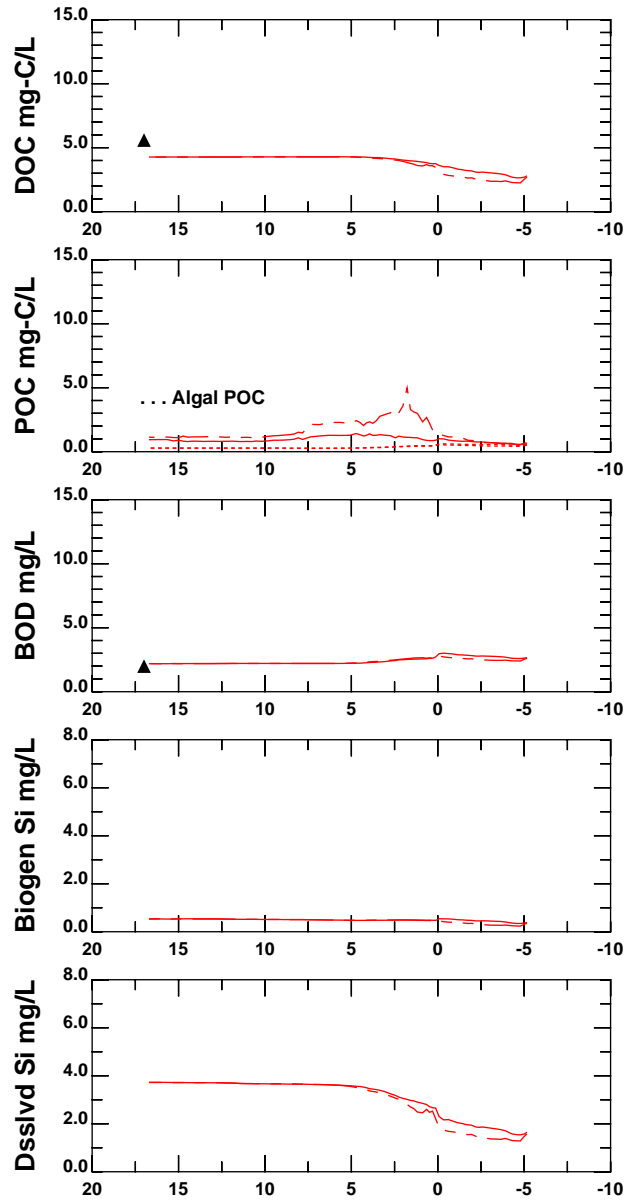


**DATA**  
 NJHDG Feb 01,2010

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

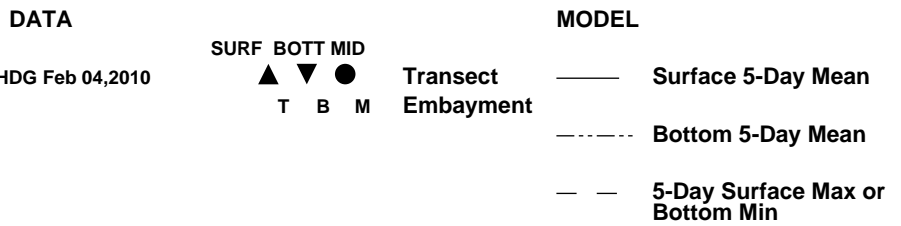
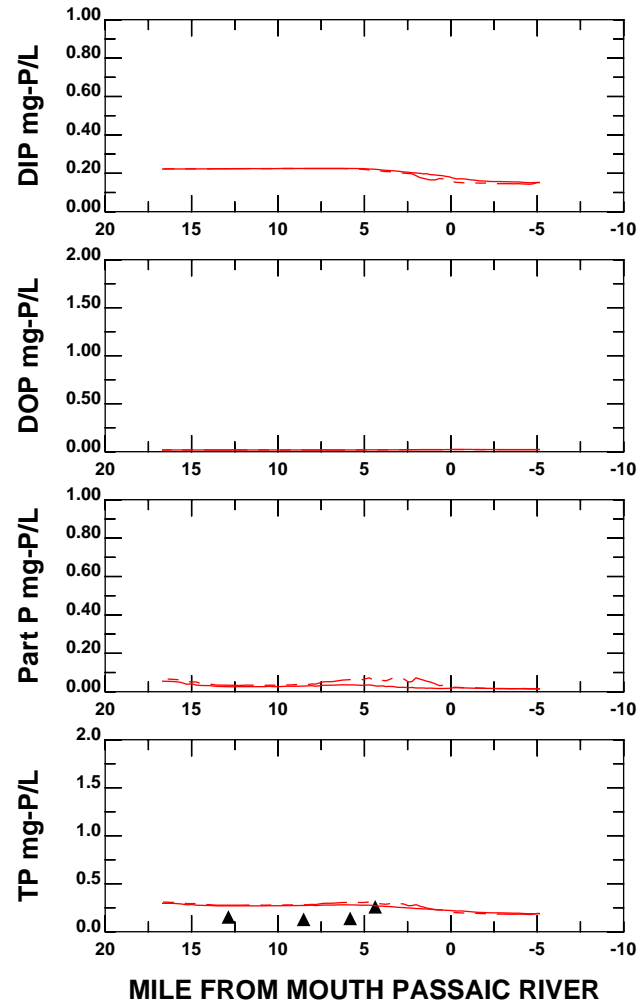
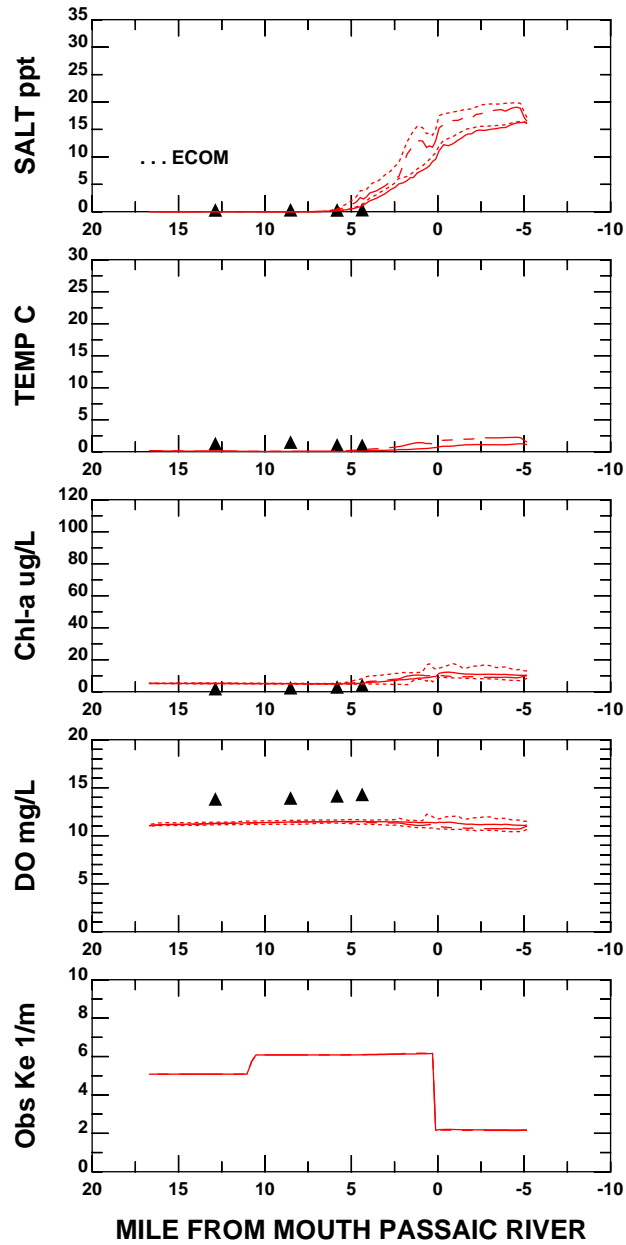


DATA  
NJHDG Feb 01,2010

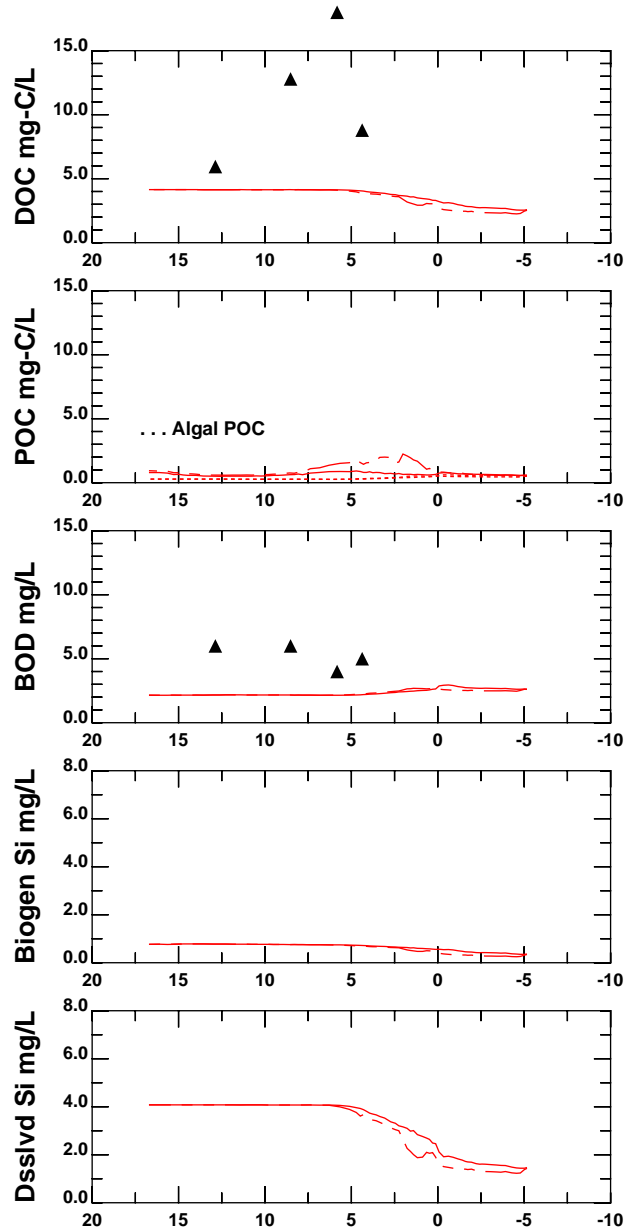
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



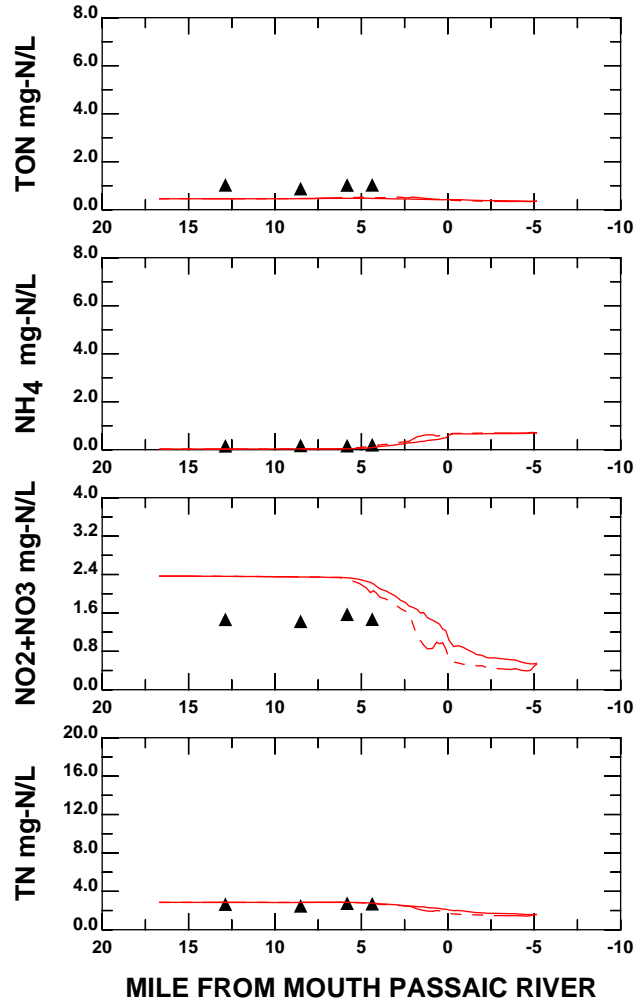
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



#### DATA

NJHDG Feb 04,2010

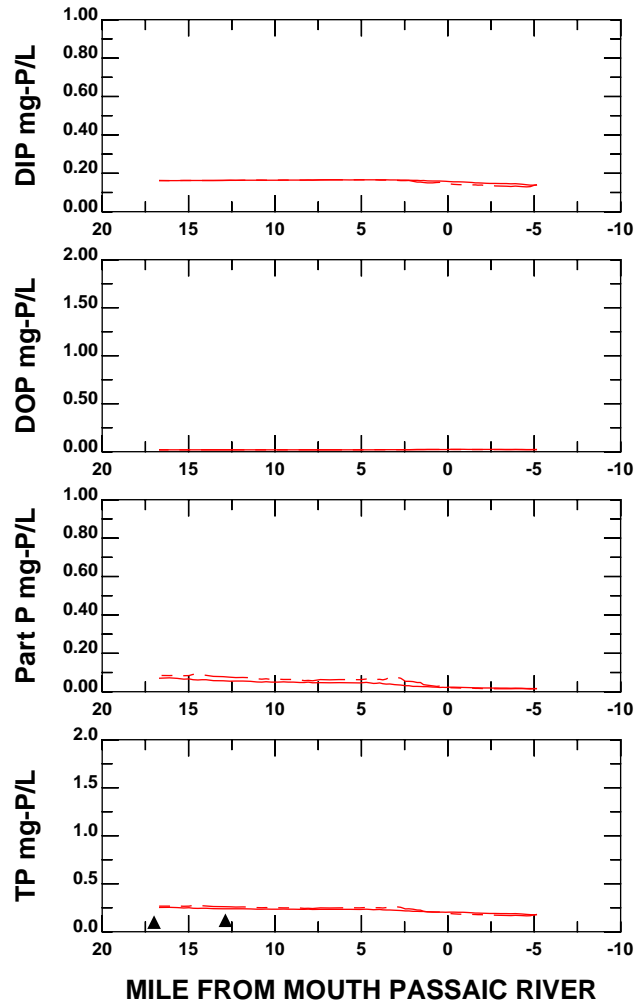
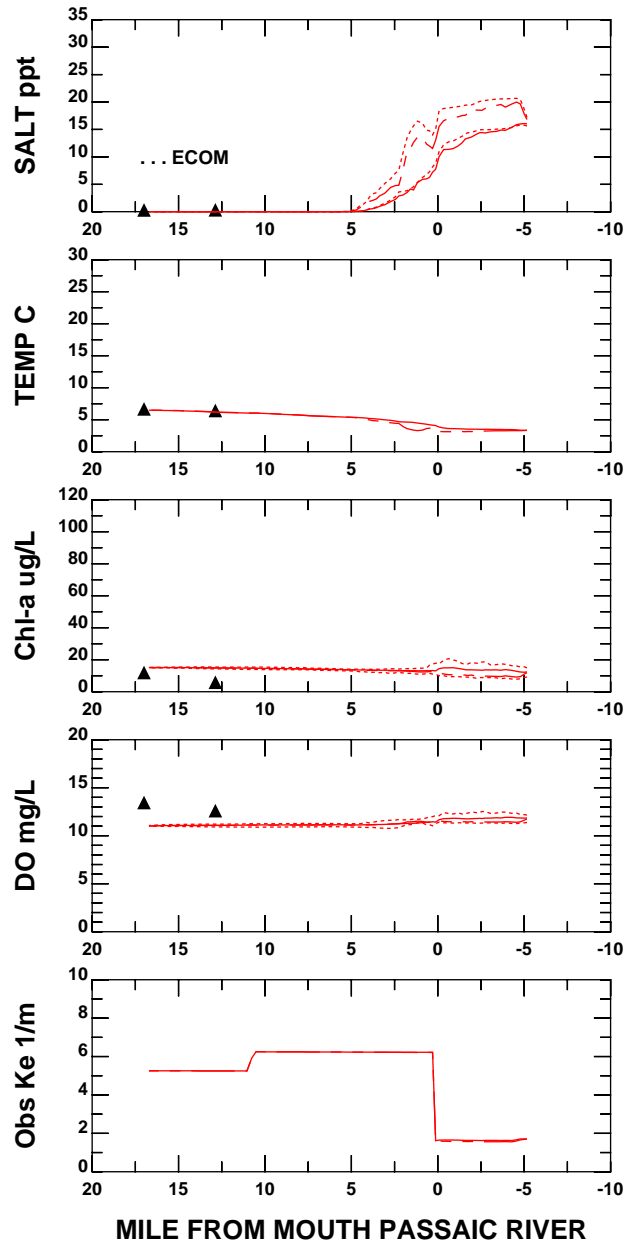
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



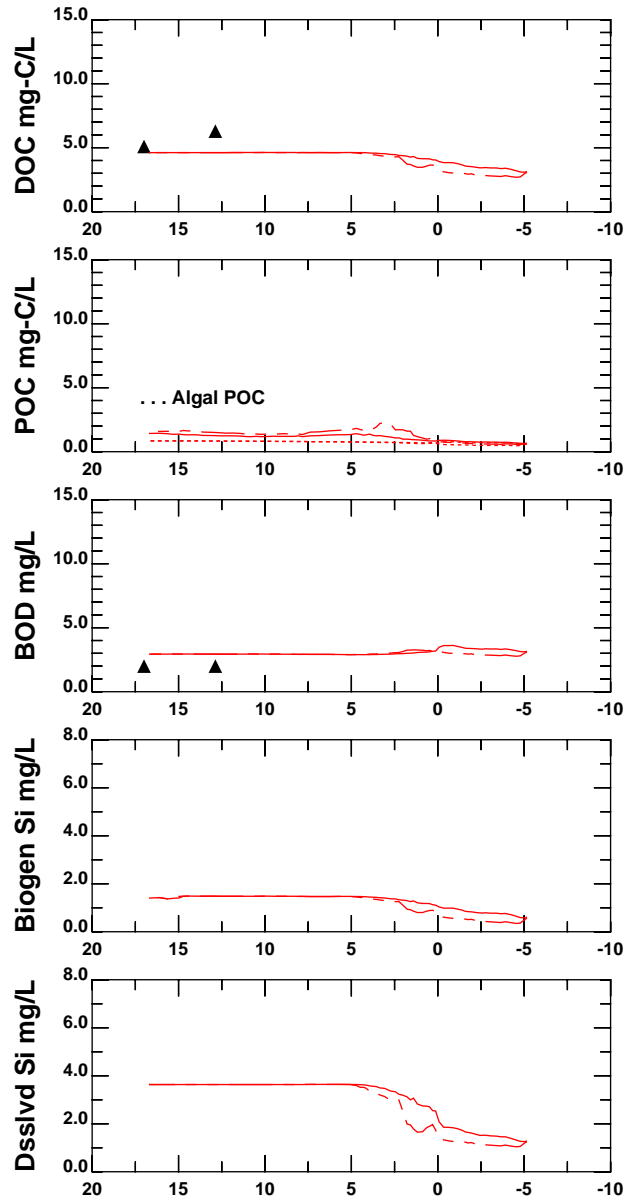
**DATA**  
NJHDG Mar 09,2010

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

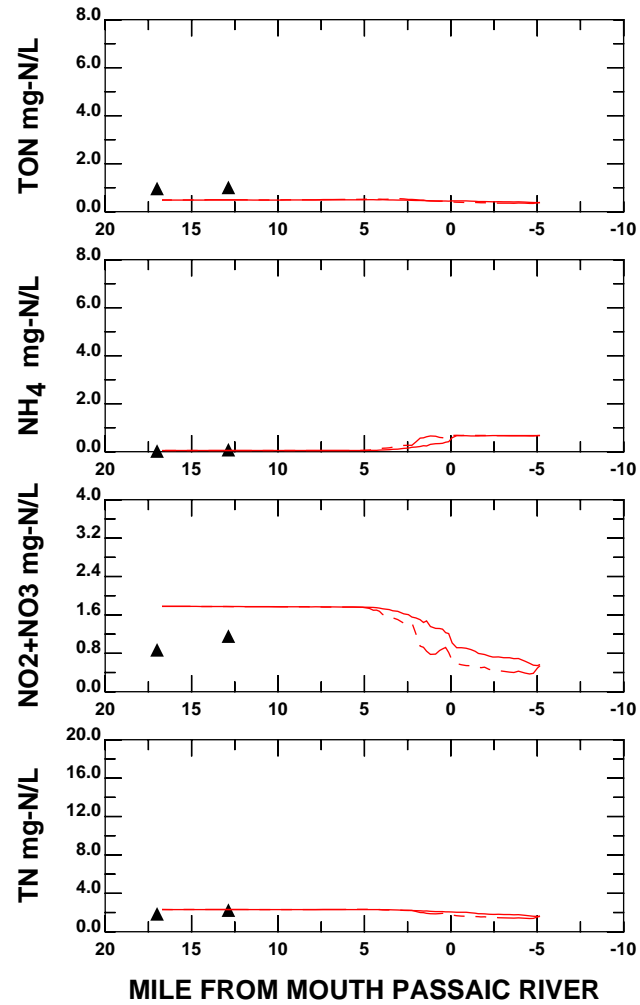
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Mar 09,2010

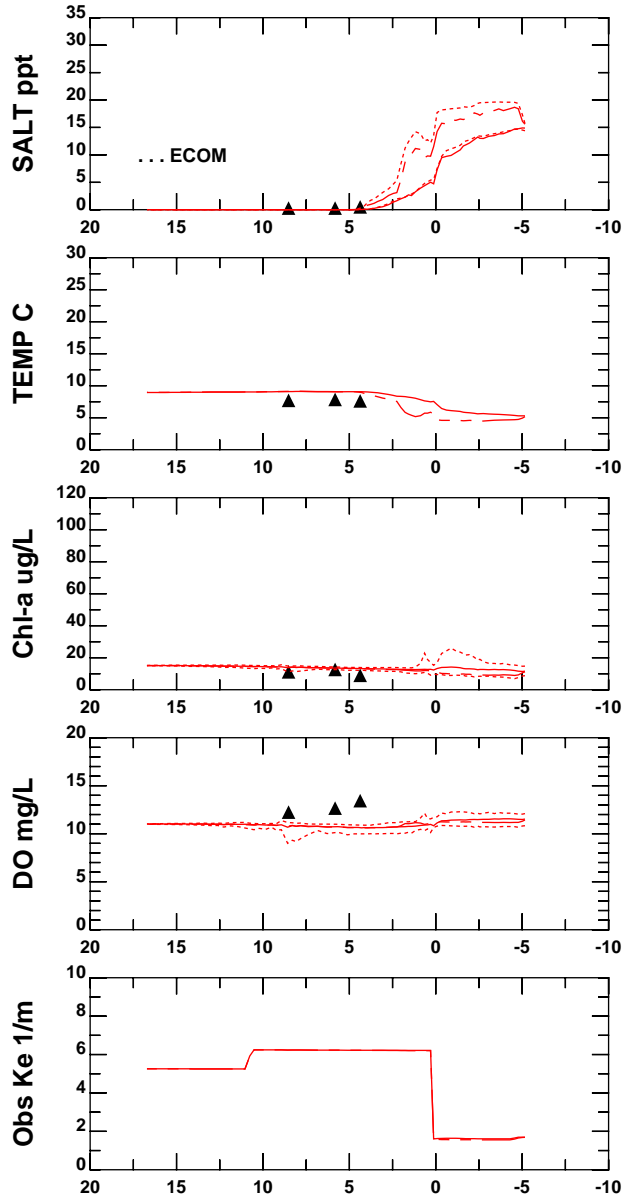
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

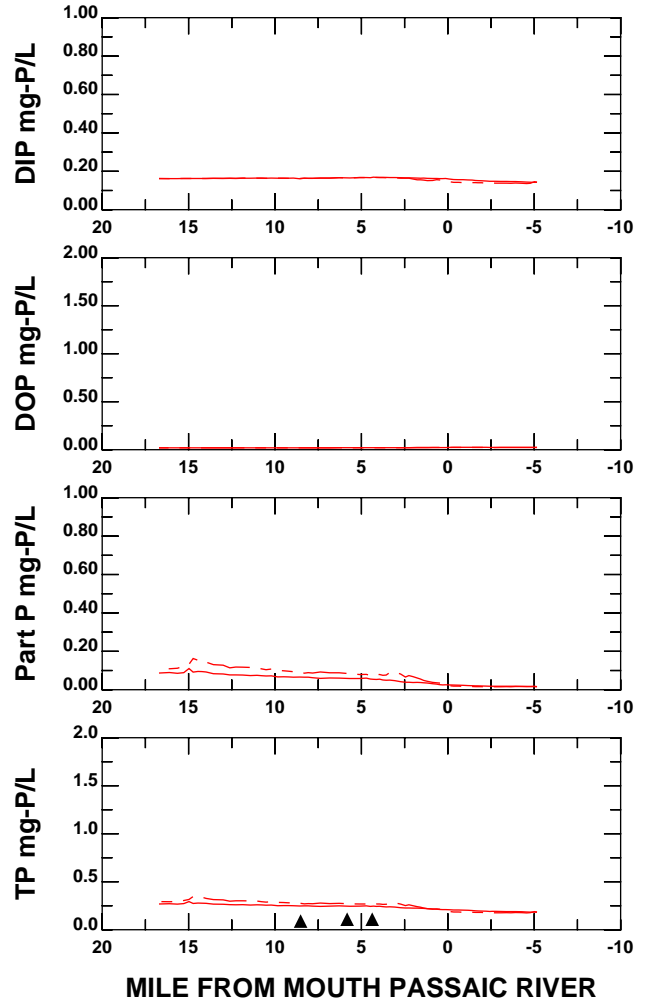
#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



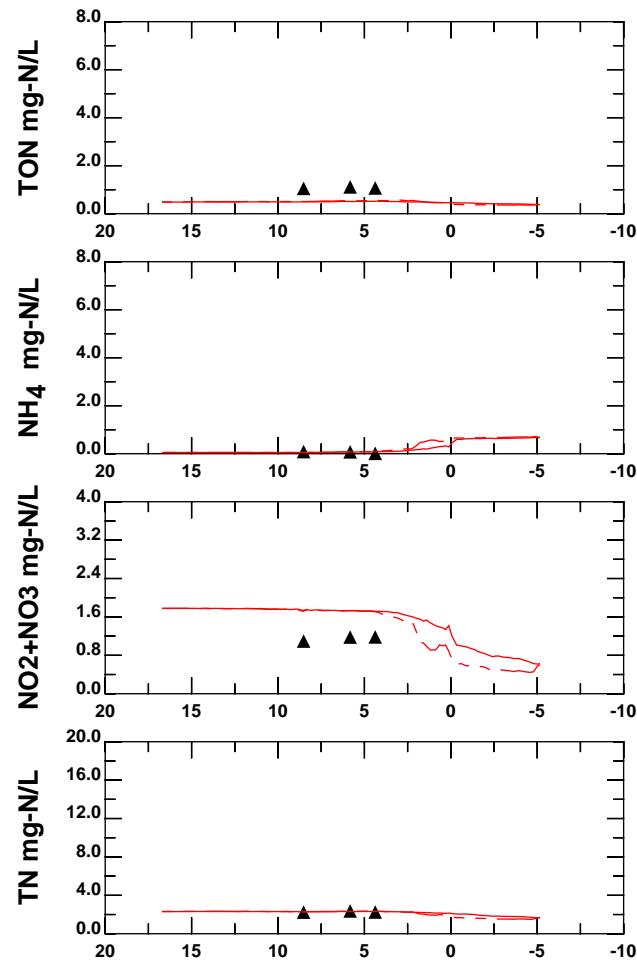
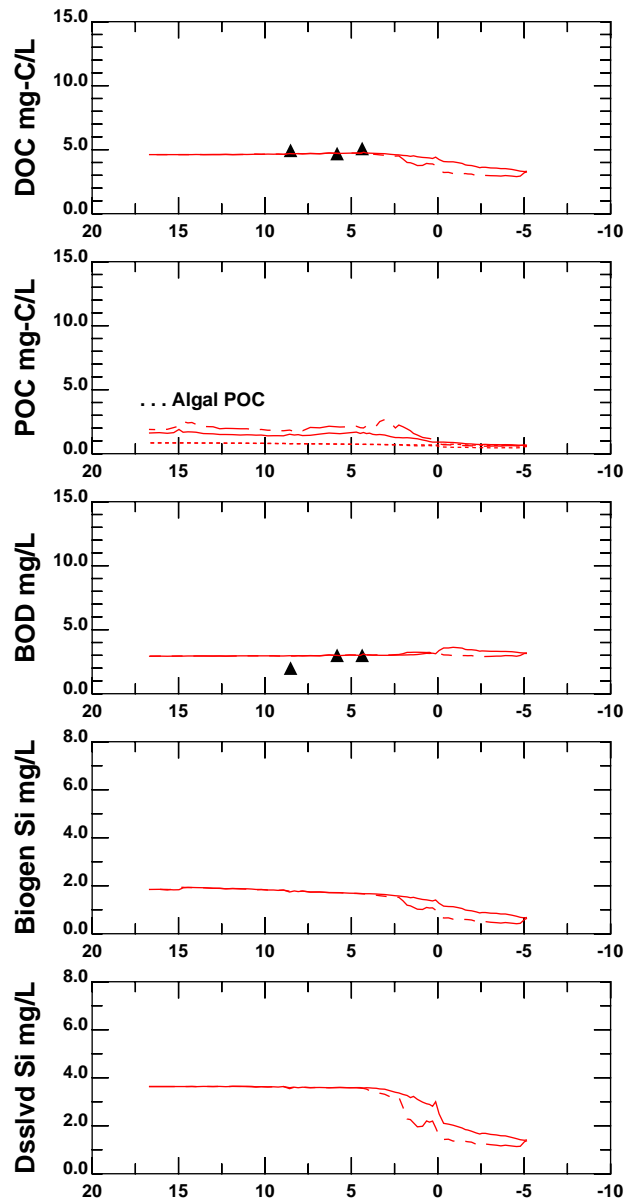
MILE FROM MOUTH PASSAIC RIVER

DATA  
 NJHDG Mar 11,2010

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

MODEL  
 — Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



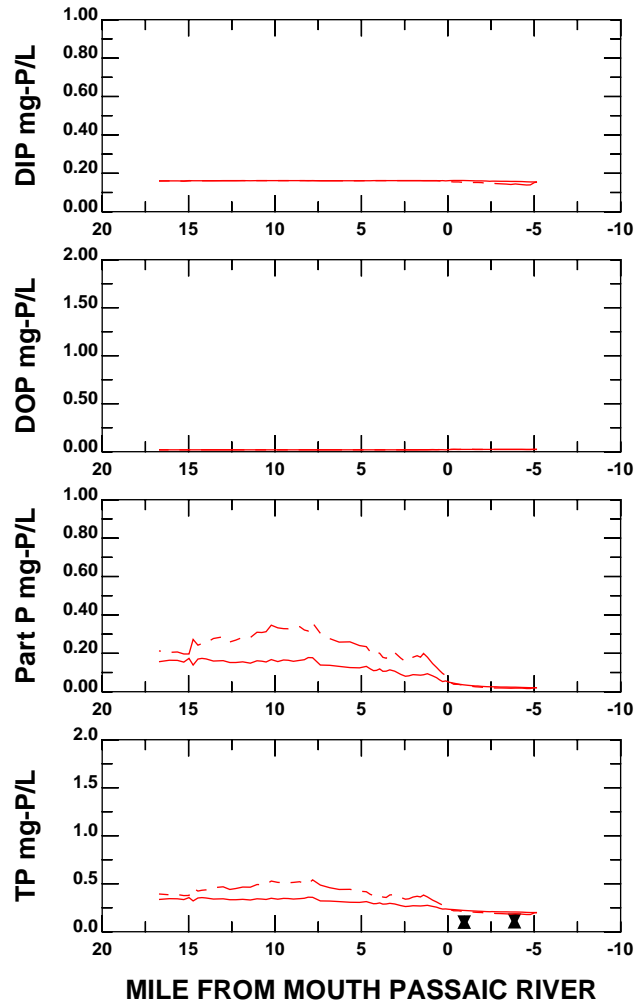
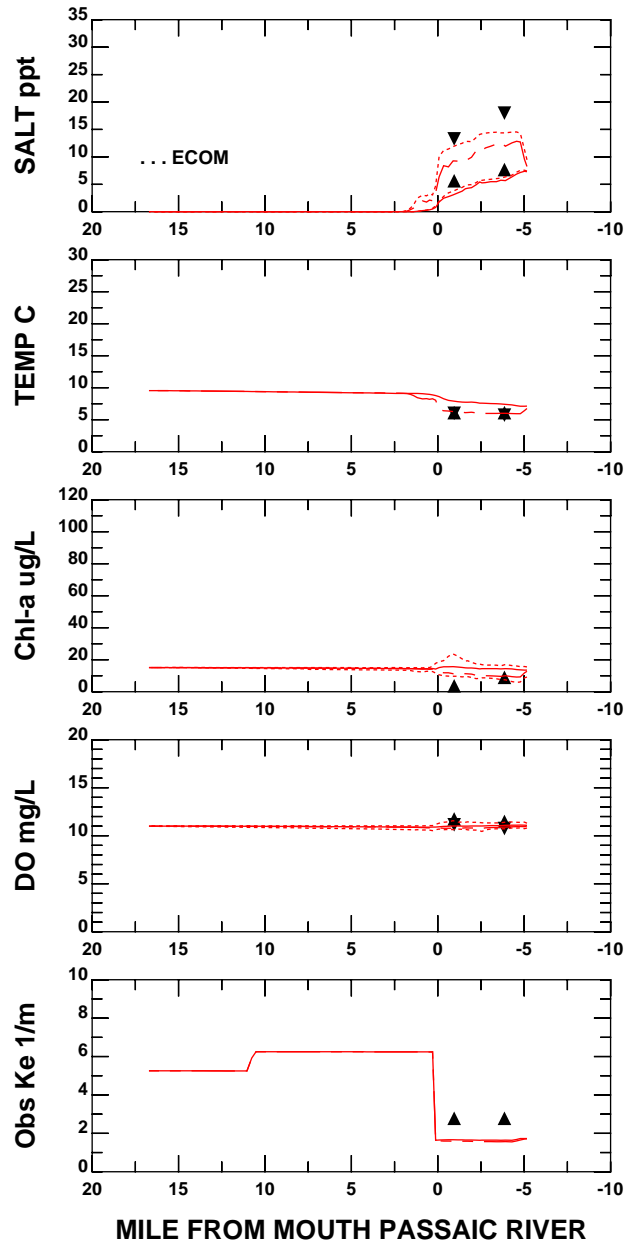


DATA  
NJHDG Mar 11,2010

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



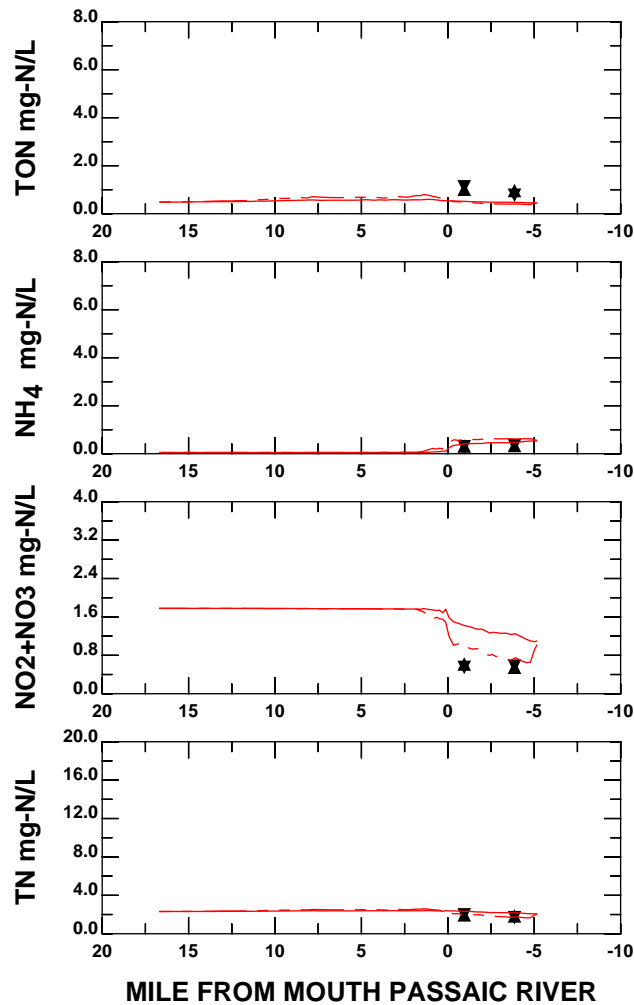
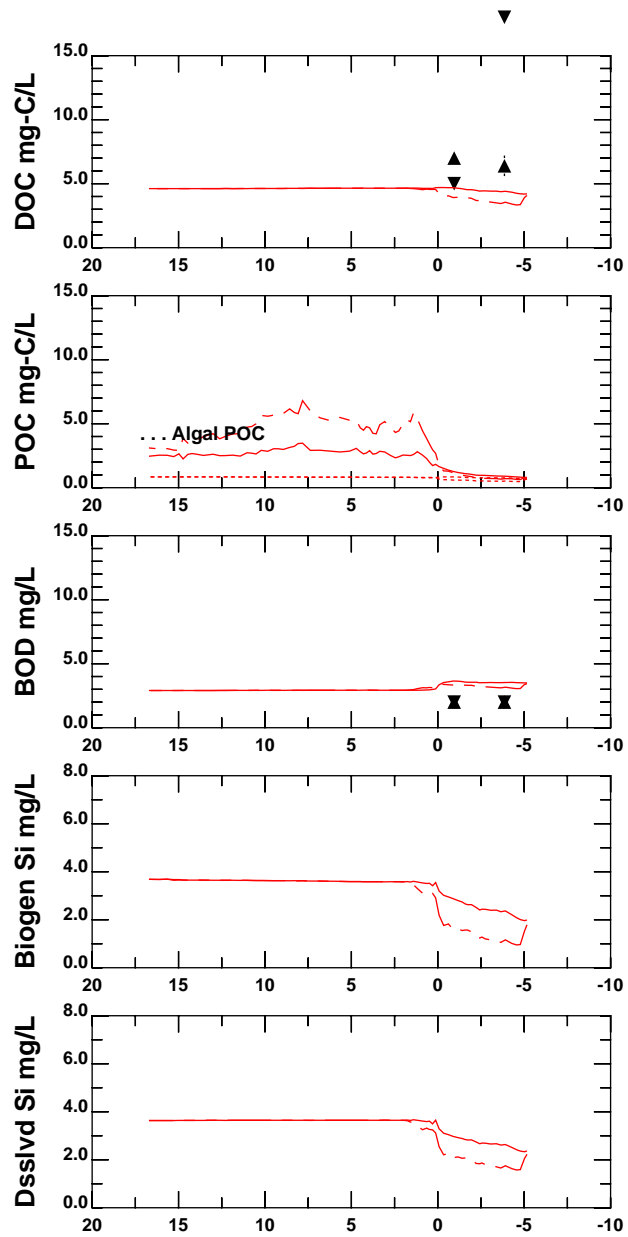
**DATA**  
NJHDG Mar 17, 2010

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

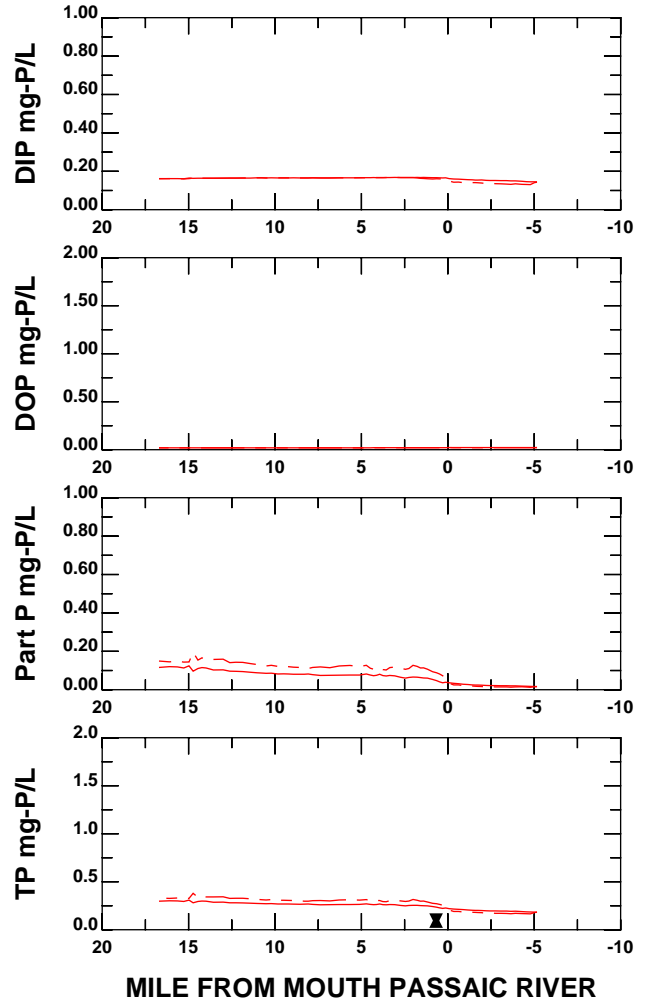
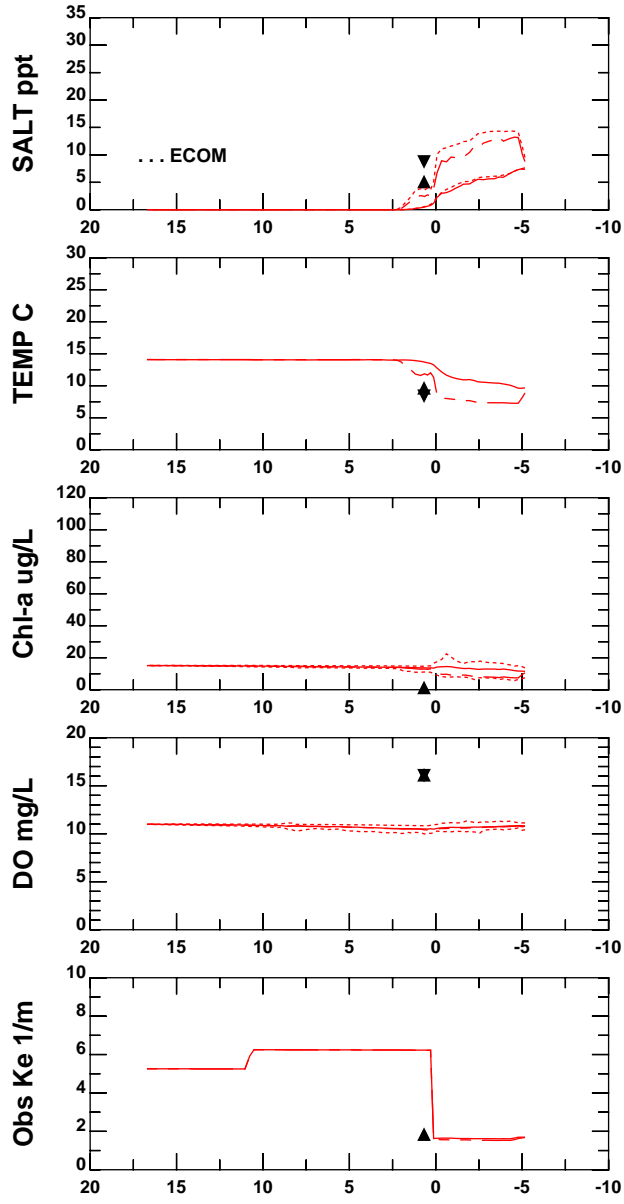


DATA  
NJHDG Mar 17, 2010

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



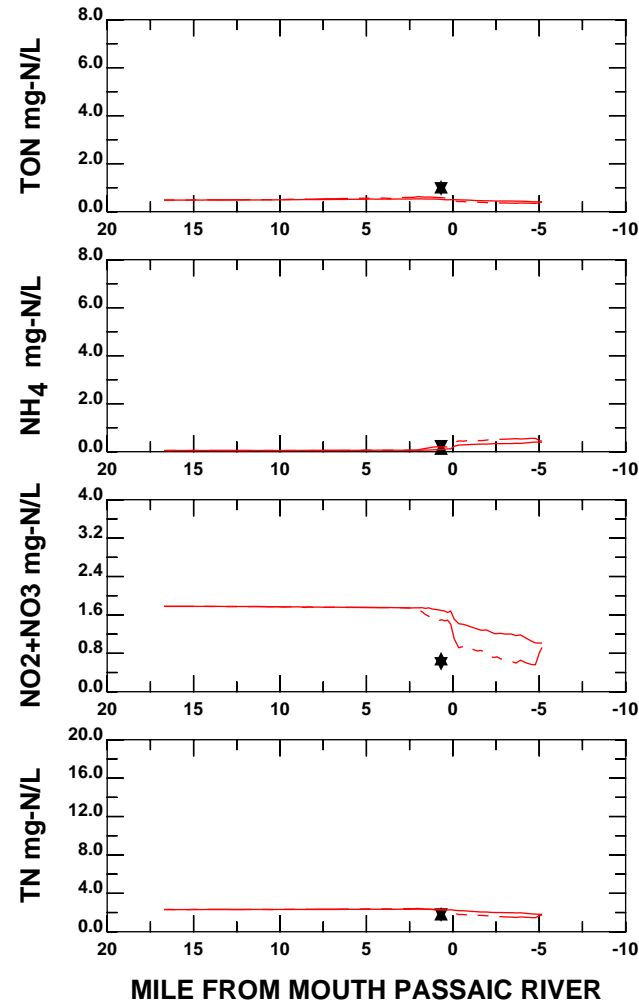
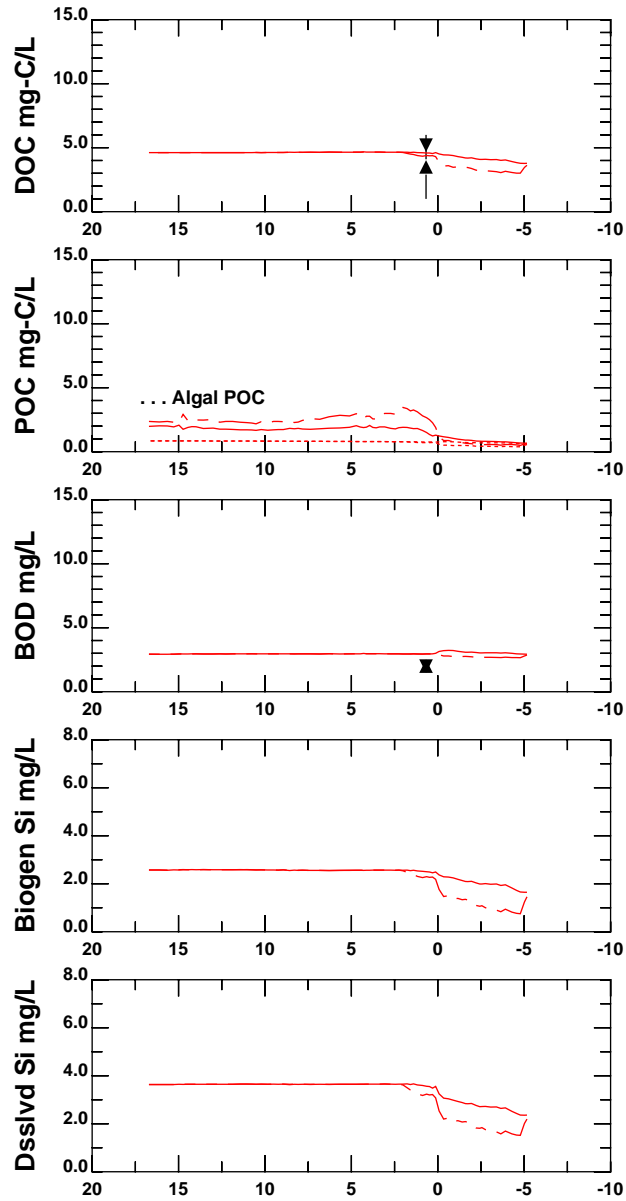
**DATA**  
NJHDG Mar 22, 2010

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910

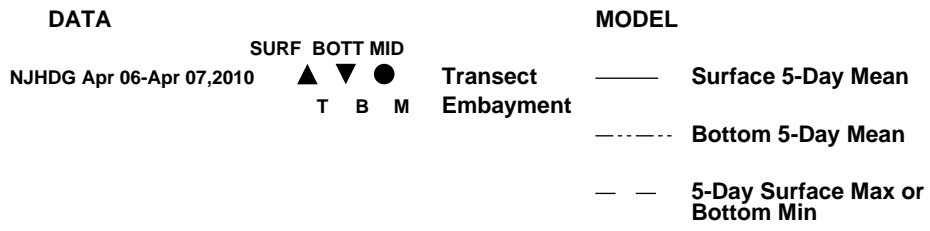
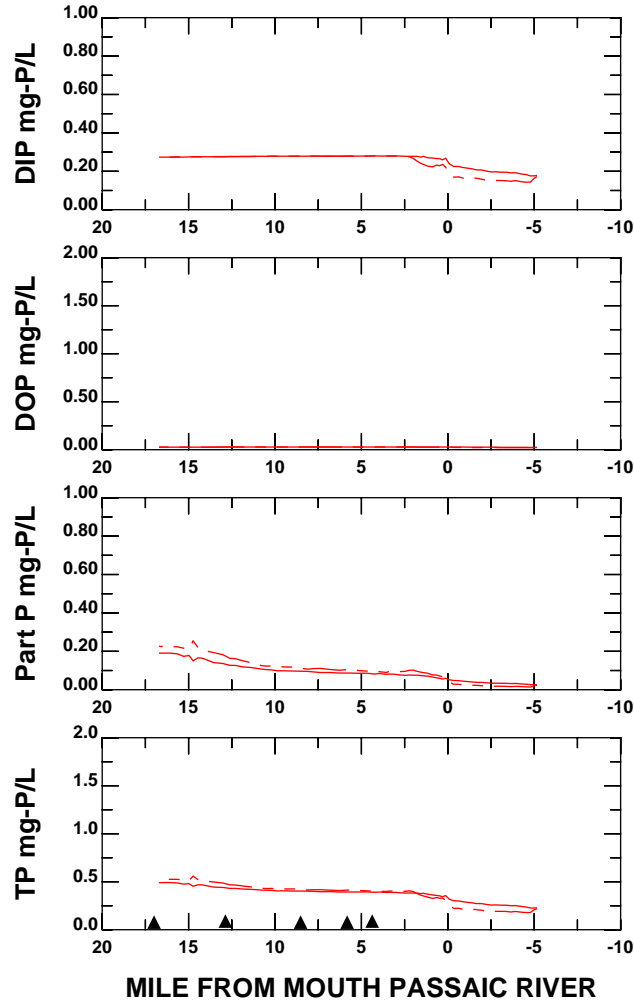
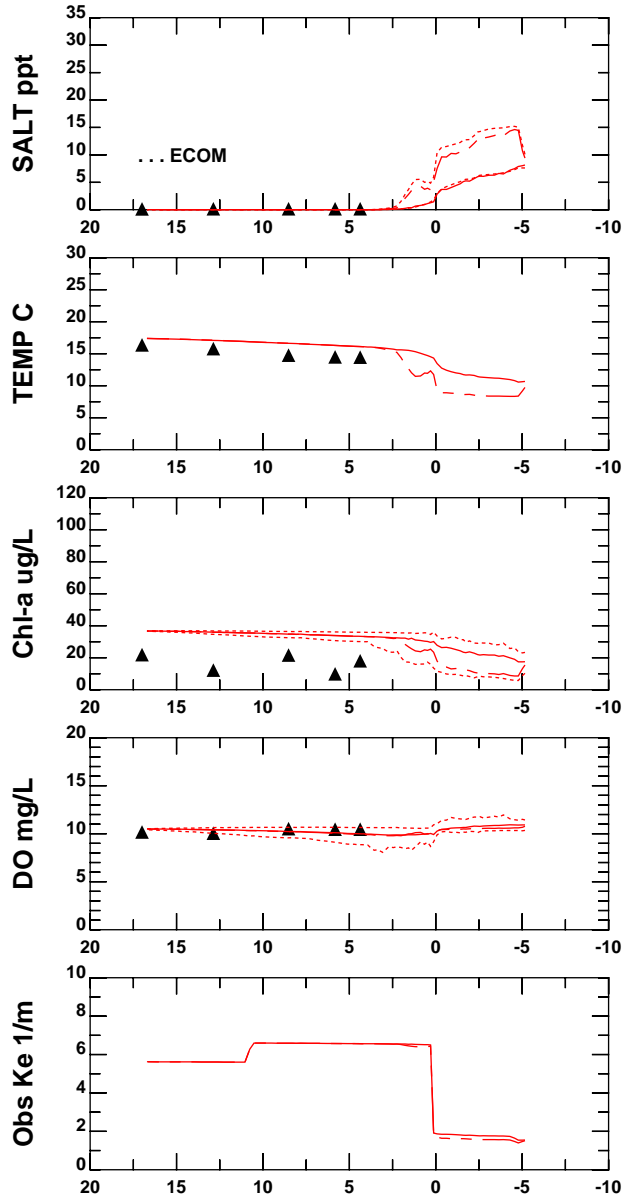


DATA  
NJHGD Mar 22, 2010

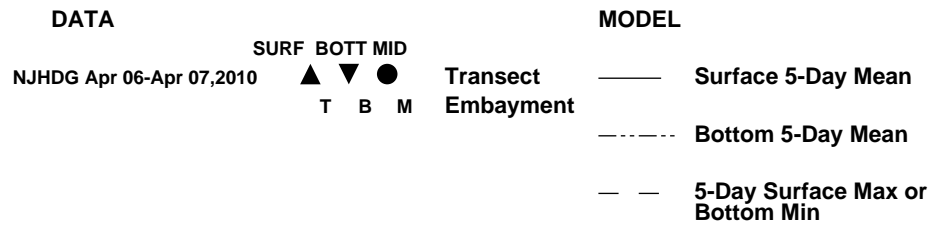
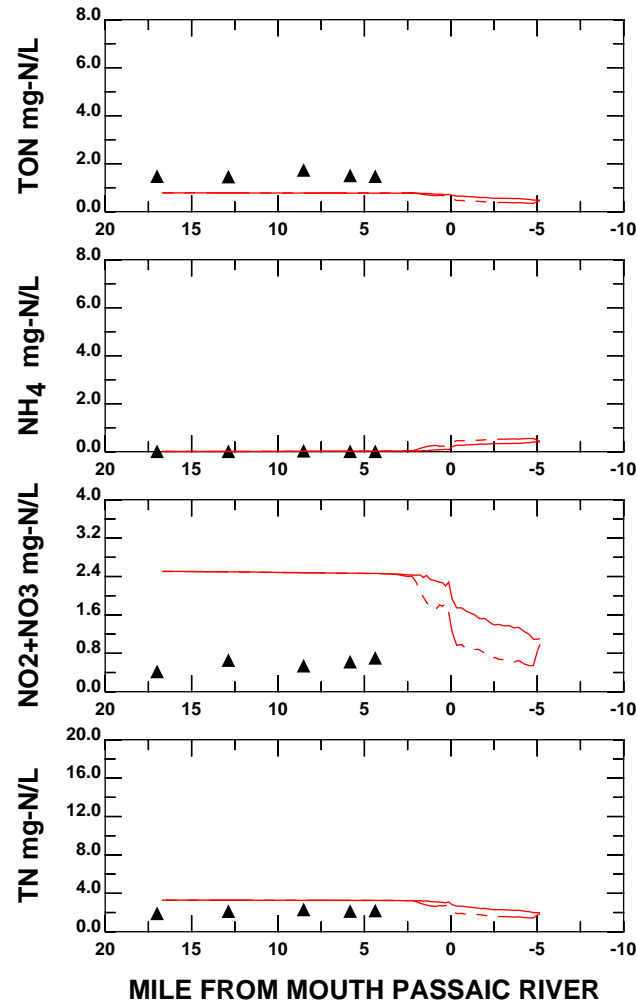
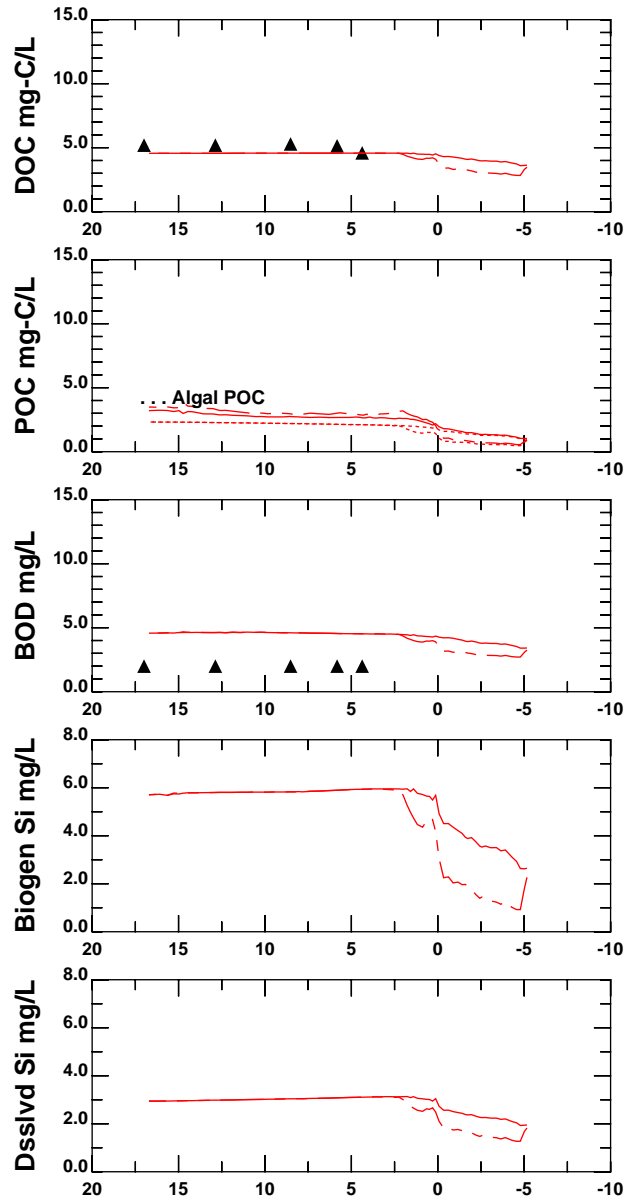
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- . - . 5-Day Surface Max or Bottom Min

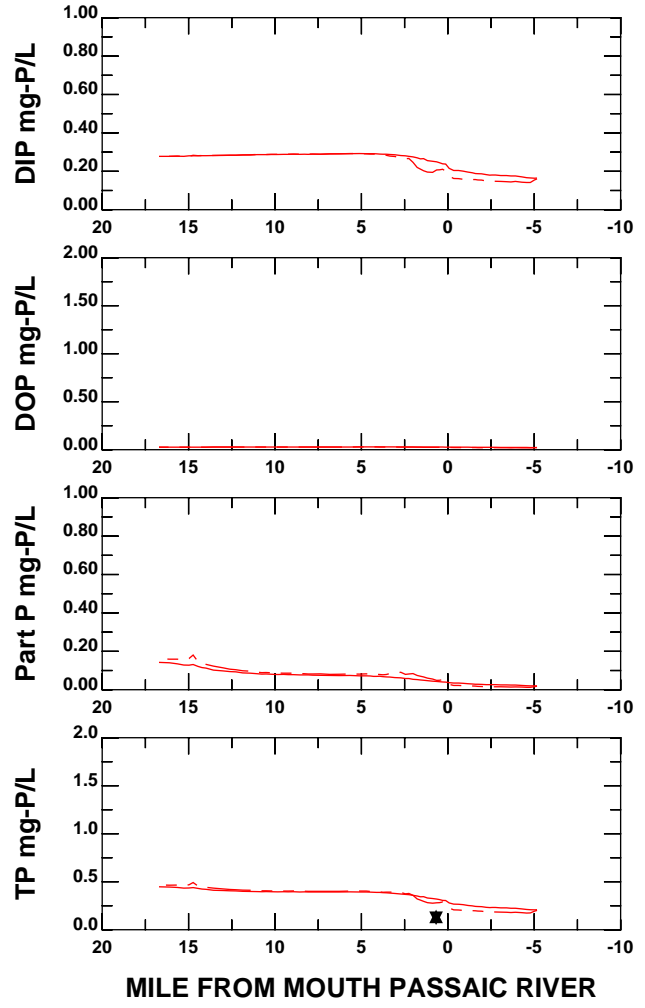
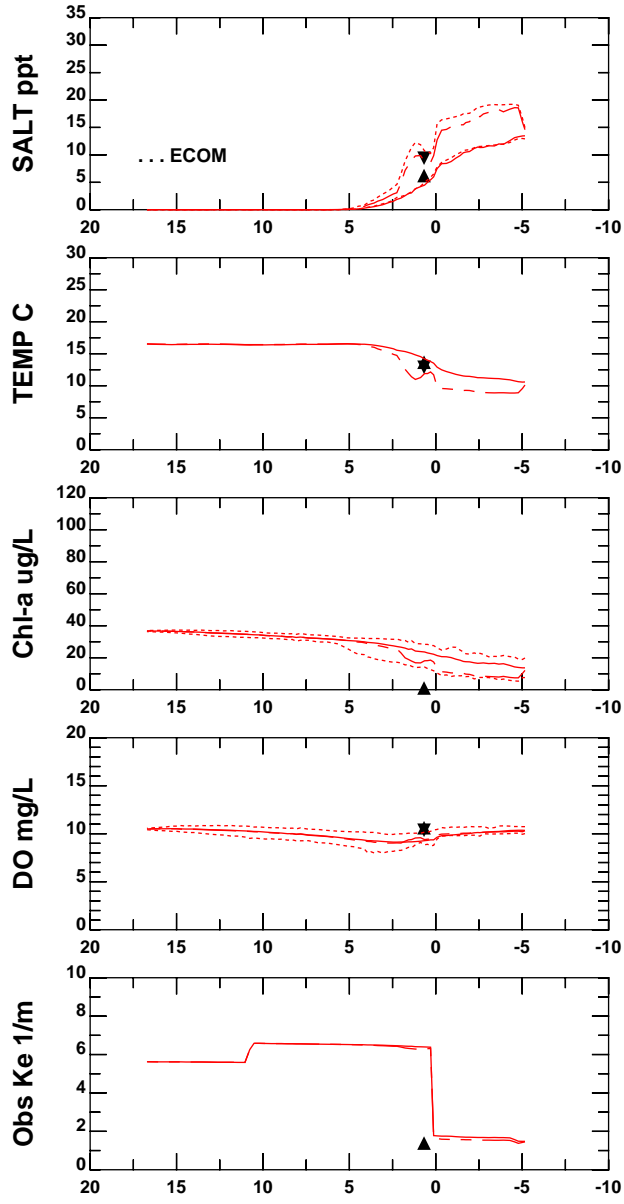
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**DATA**  
NJHDG Apr 14,2010

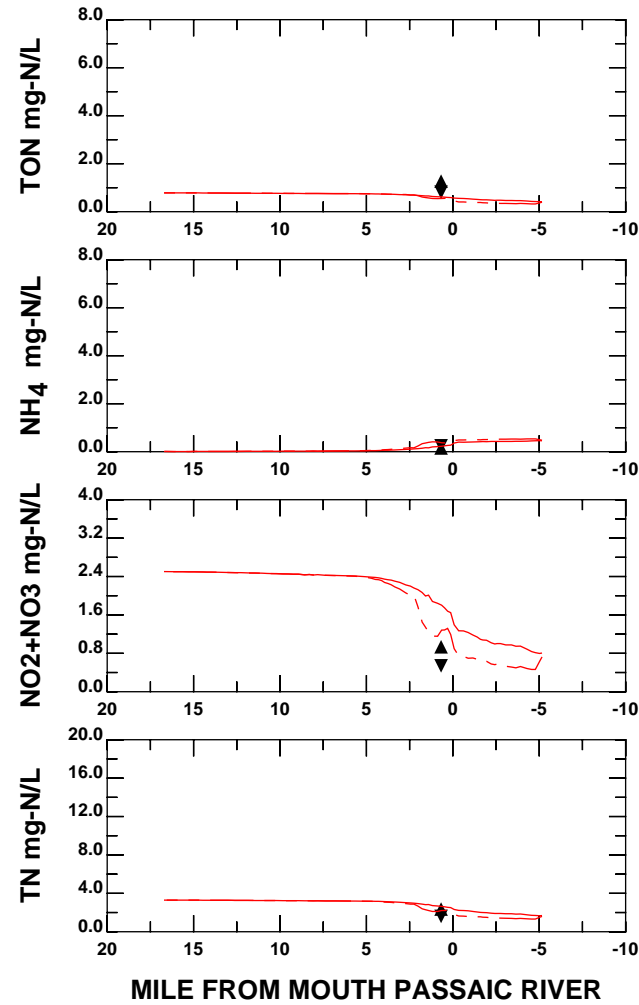
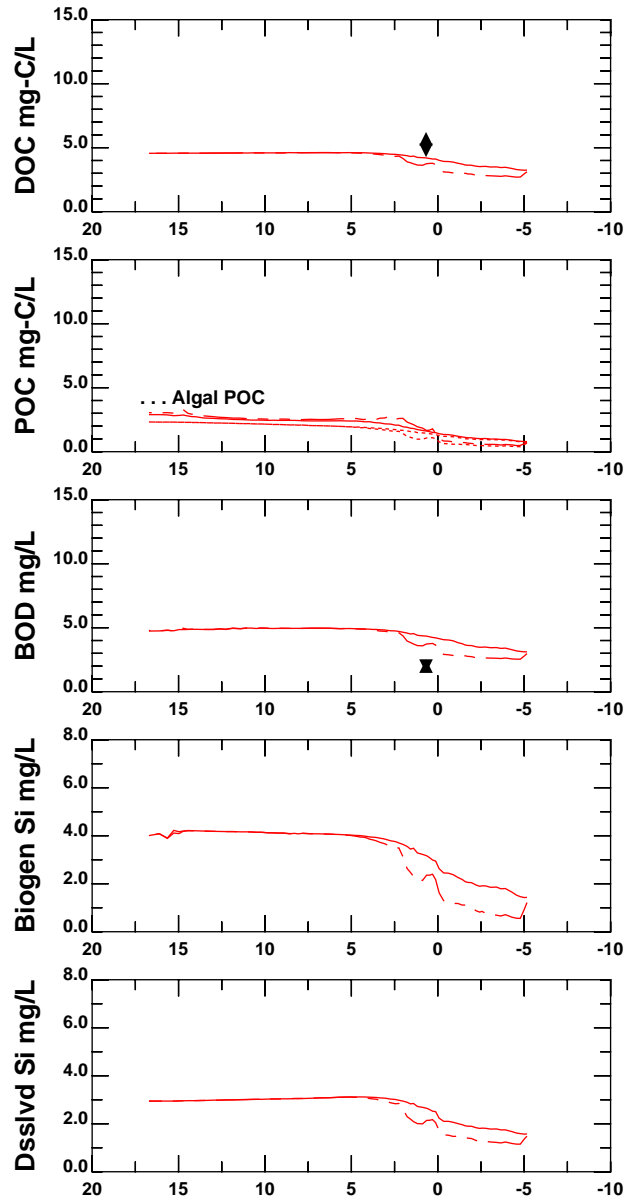
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



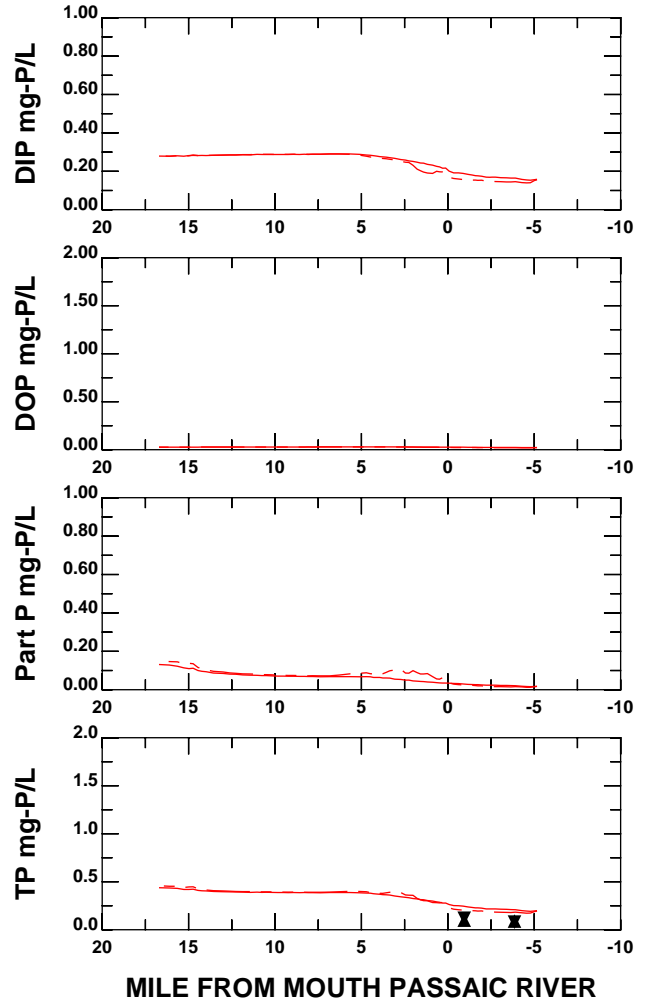
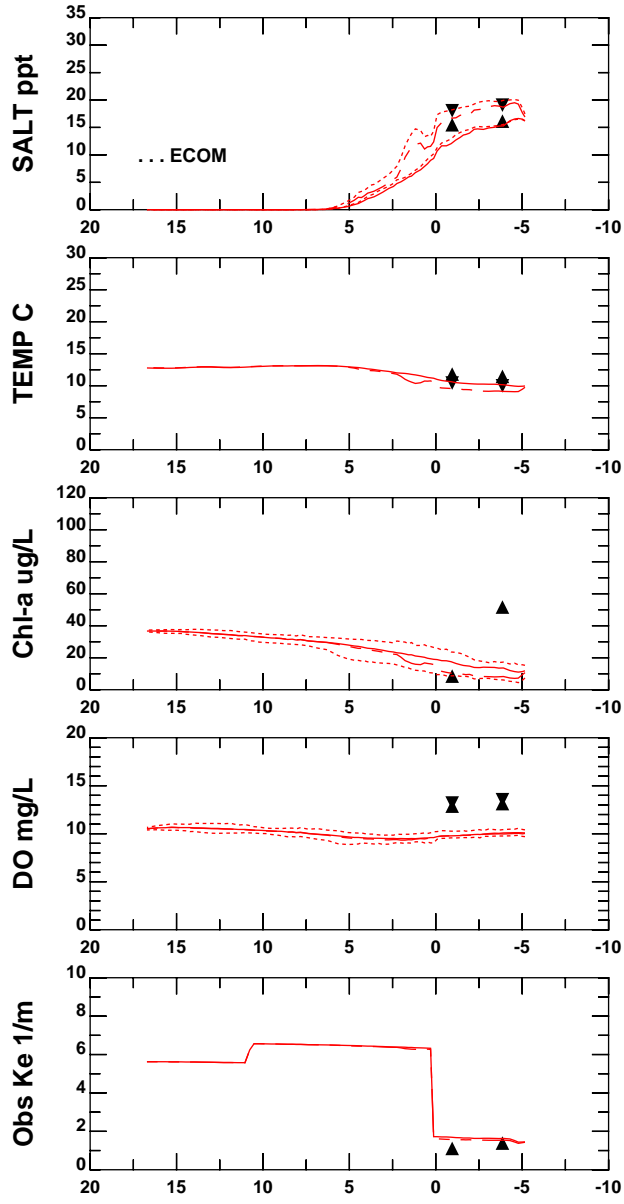


DATA  
NJHDG Apr 14,2010

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



**DATA**  
NJHDG Apr 15,2010

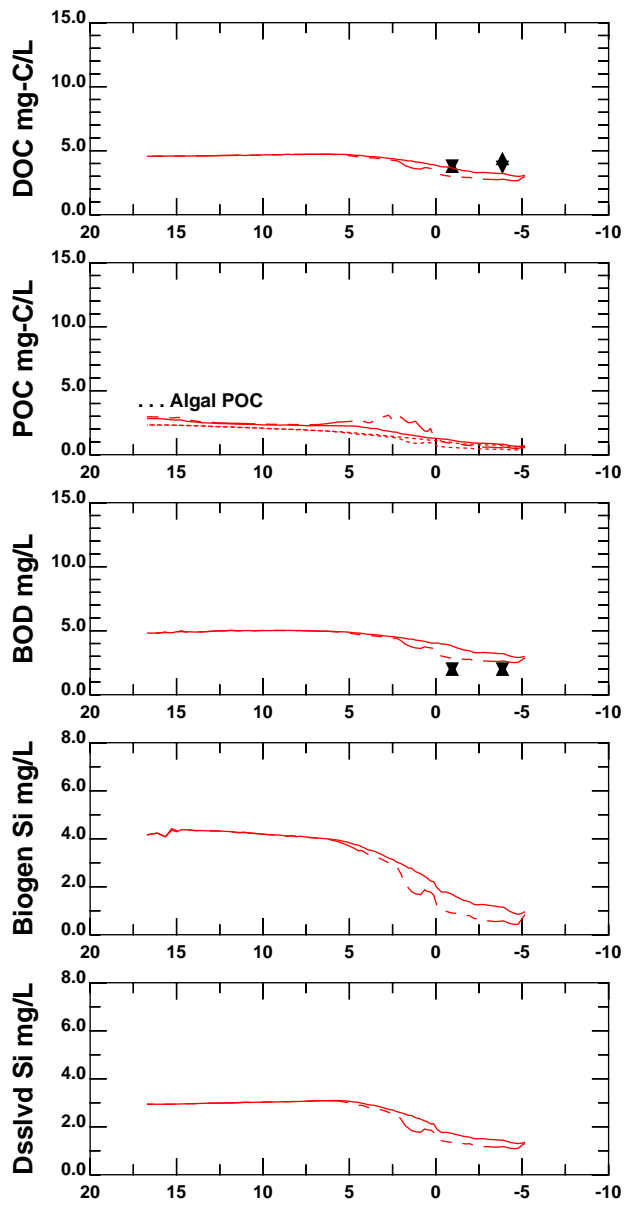
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

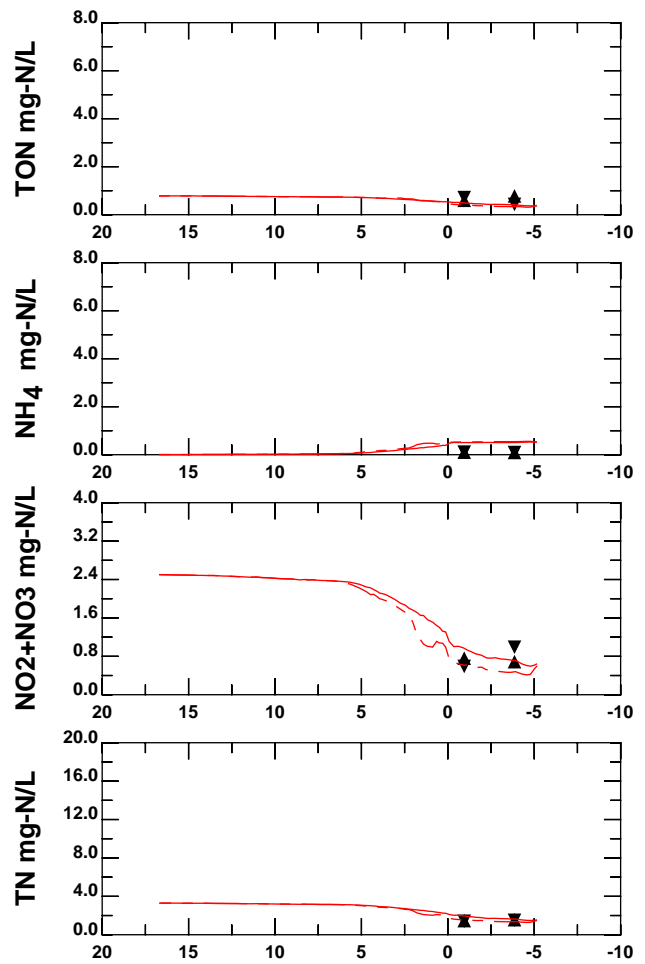
**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

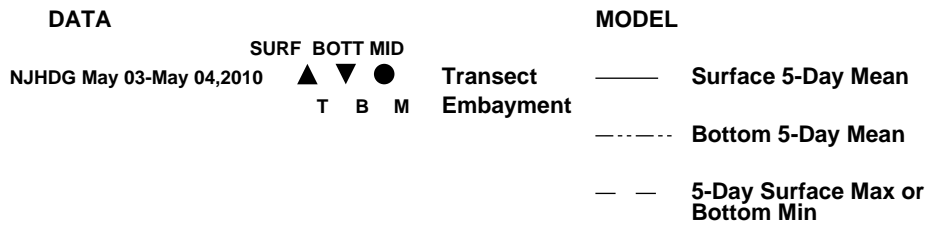
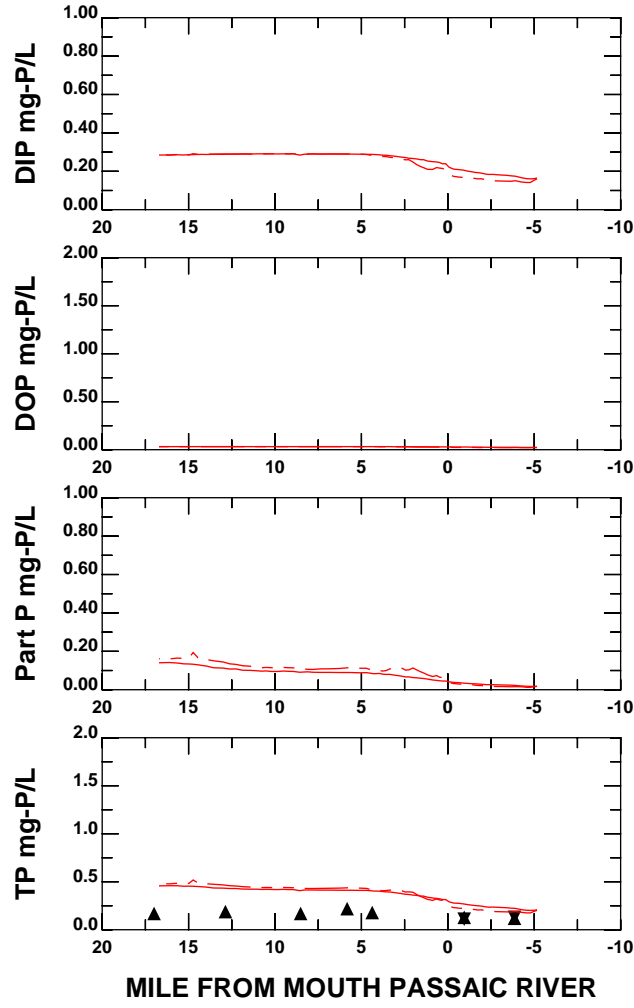
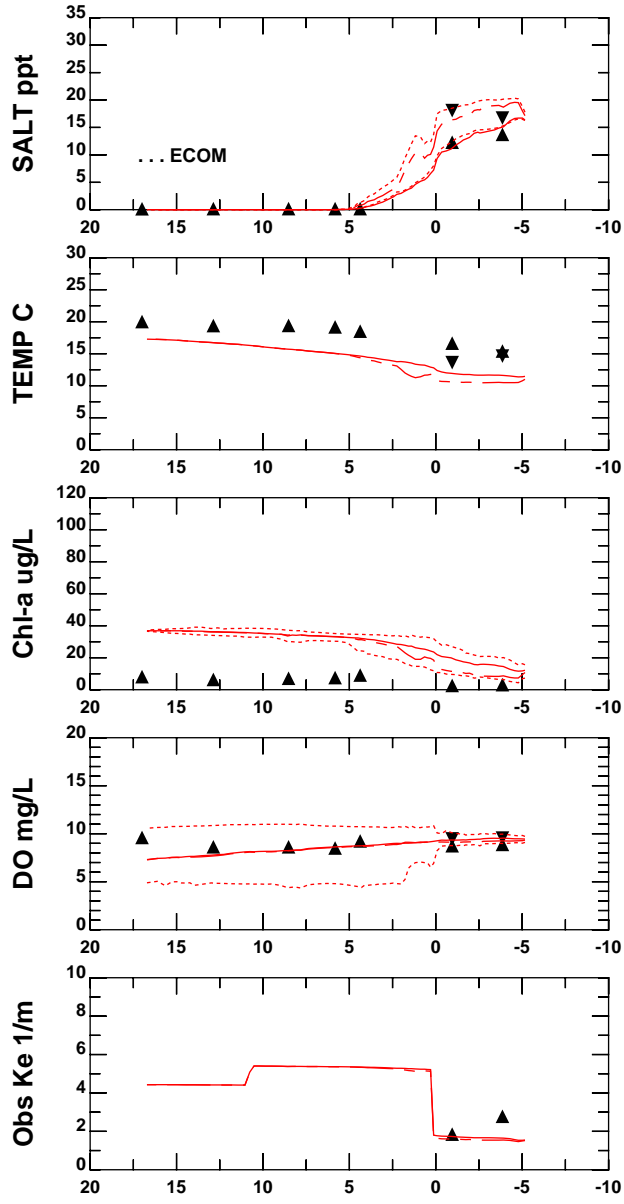
DATA  
NJHDG Apr 15,2010

MODEL

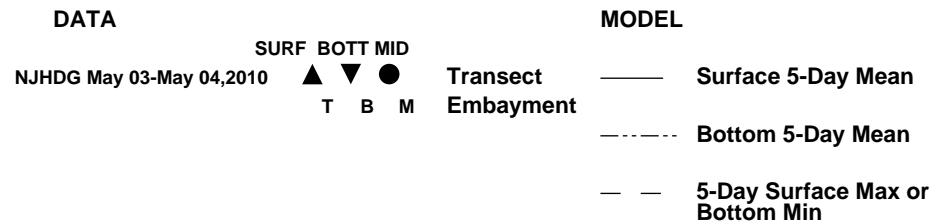
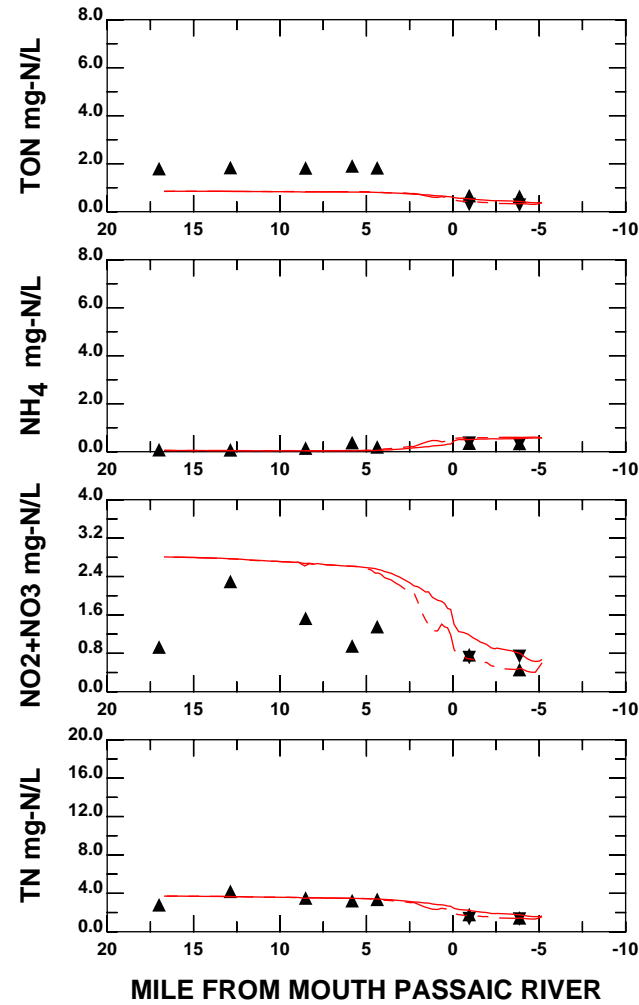
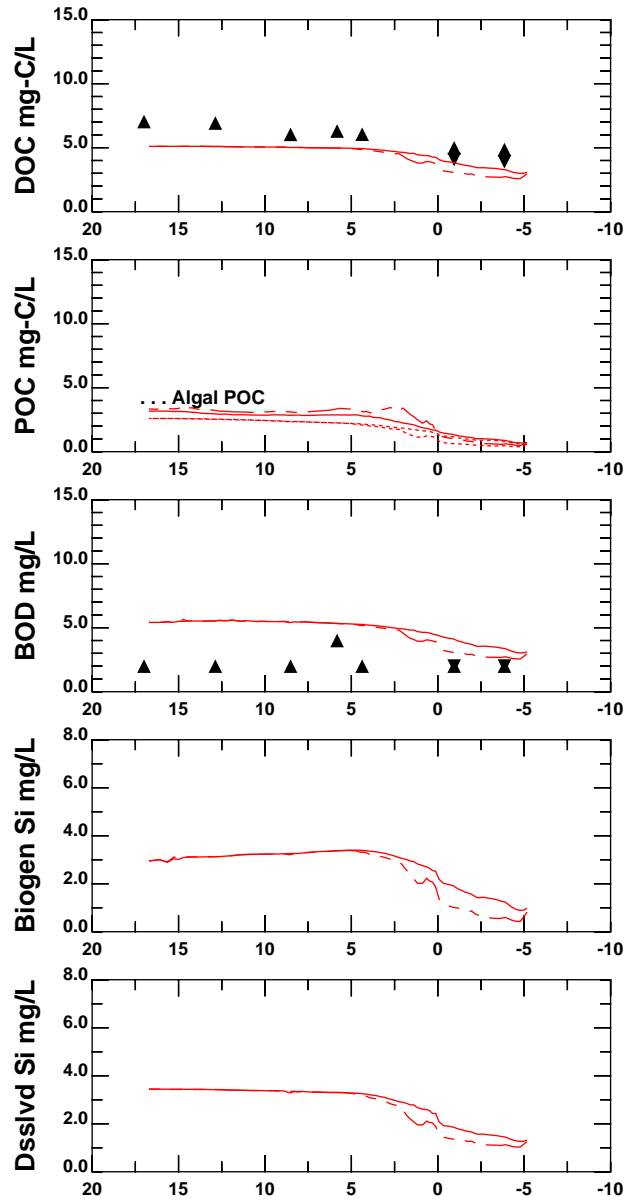
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

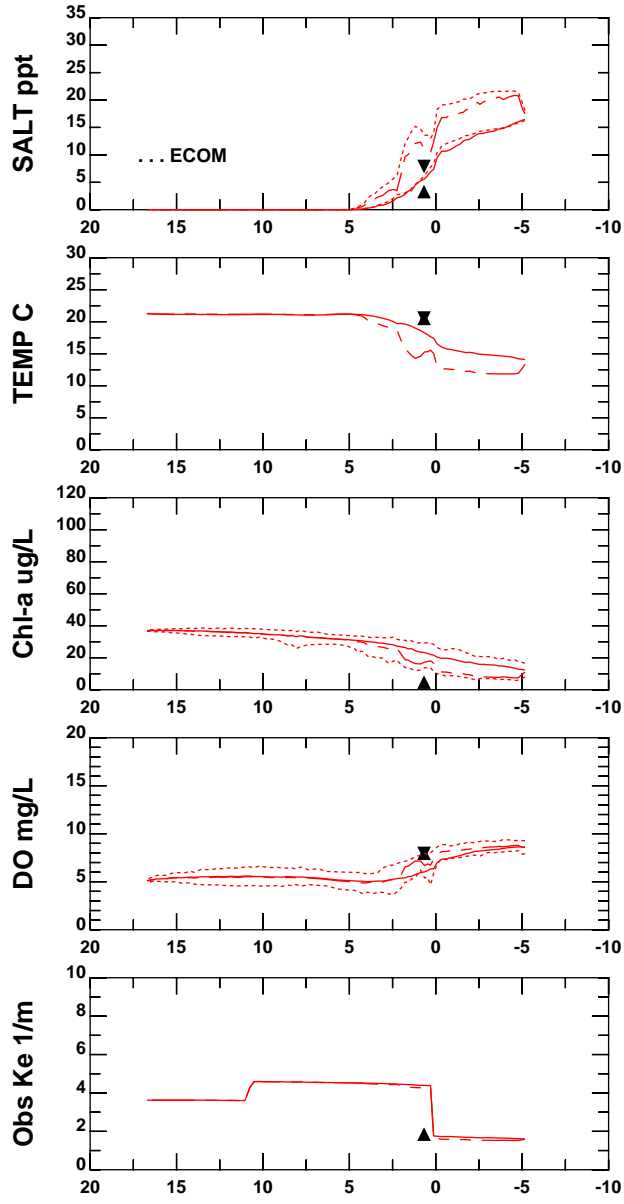
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



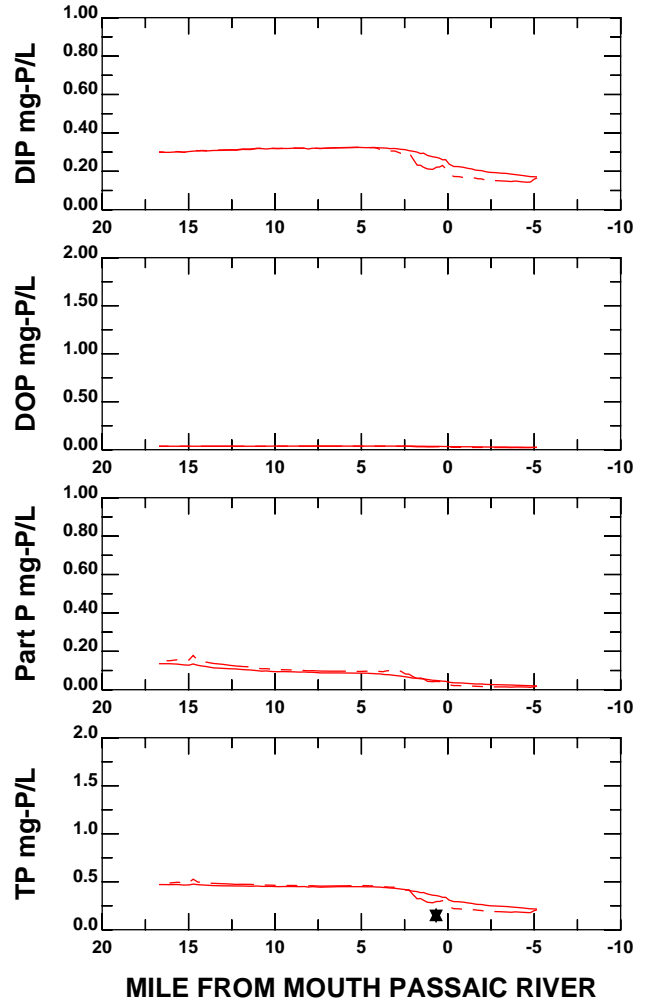
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0910

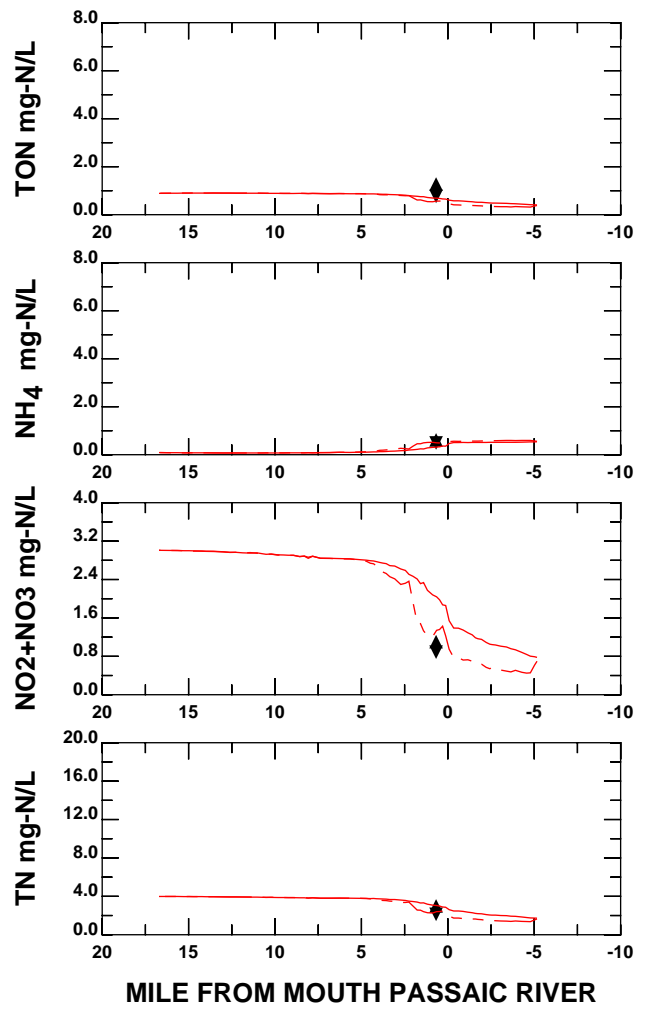
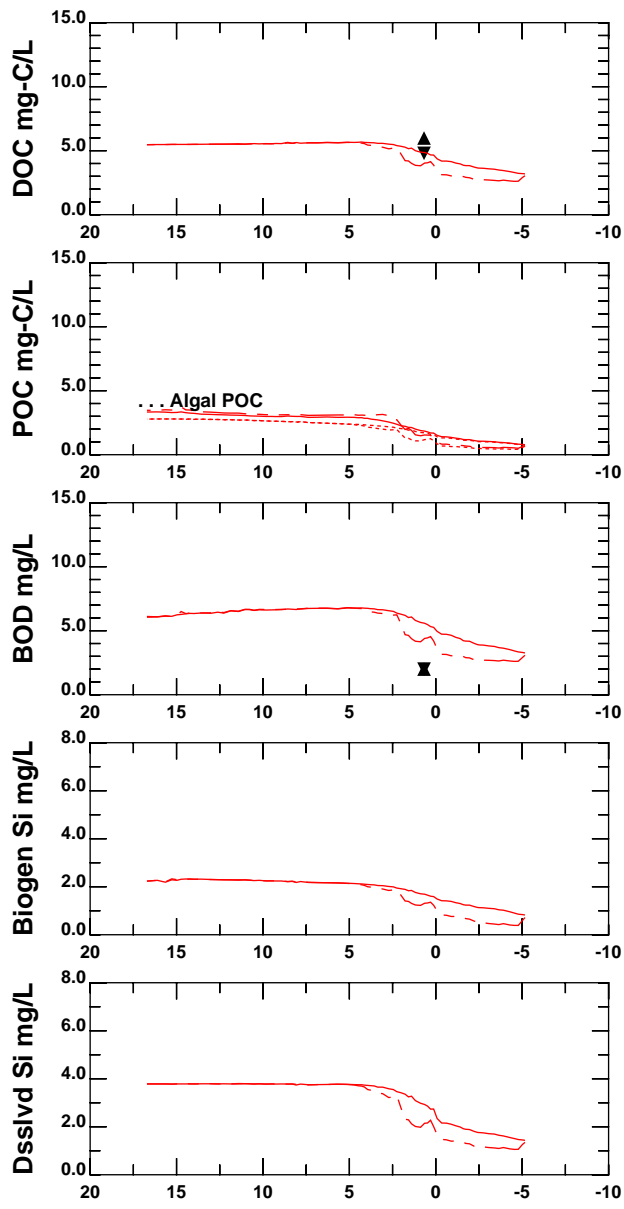


DATA  
NJHDG May 05,2010

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



DATA  
NJHGD May 05,2010

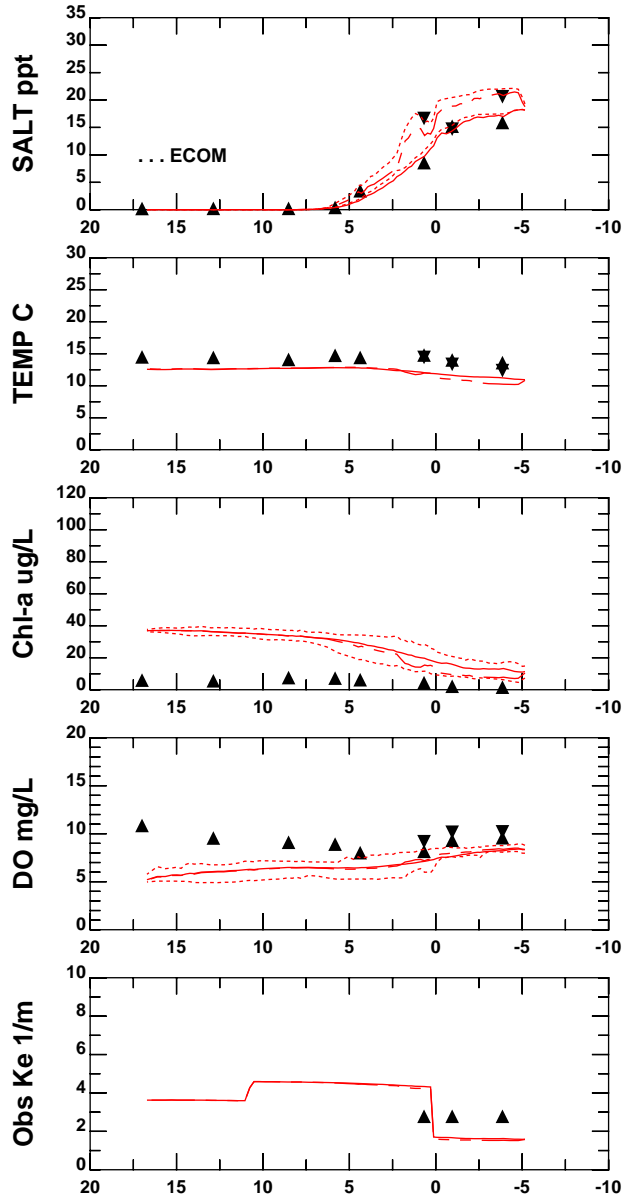
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL

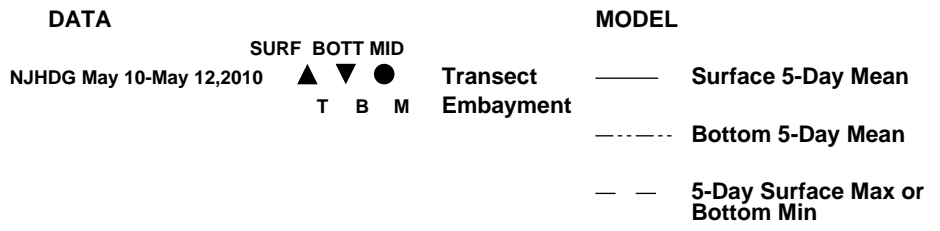
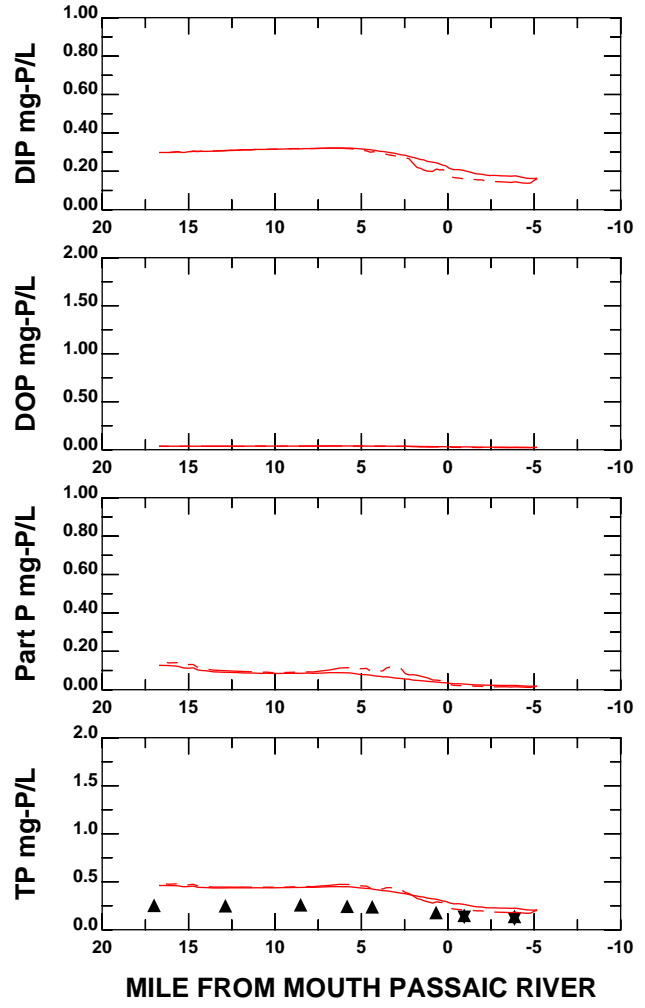
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910

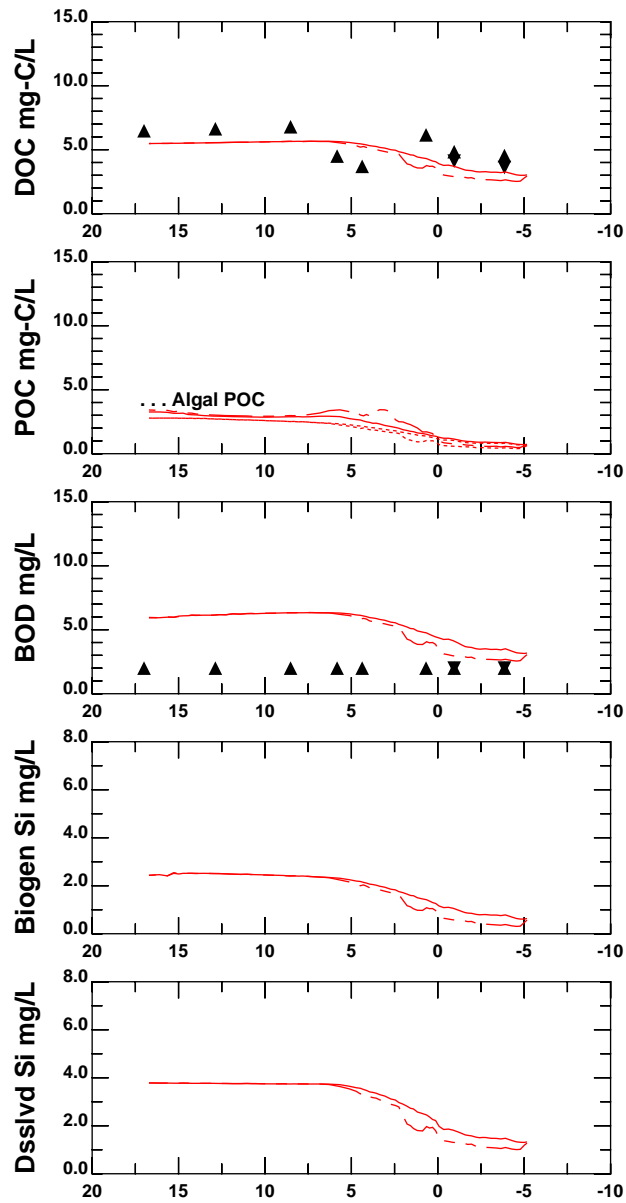


MILE FROM MOUTH PASSAIC RIVER

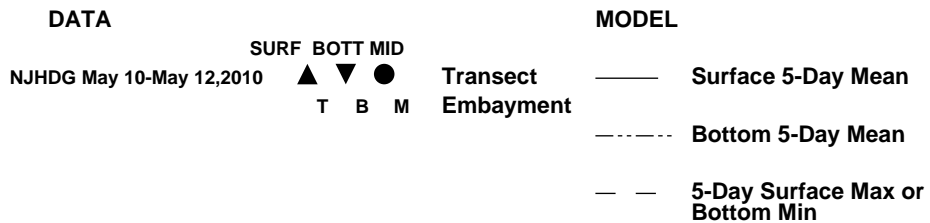
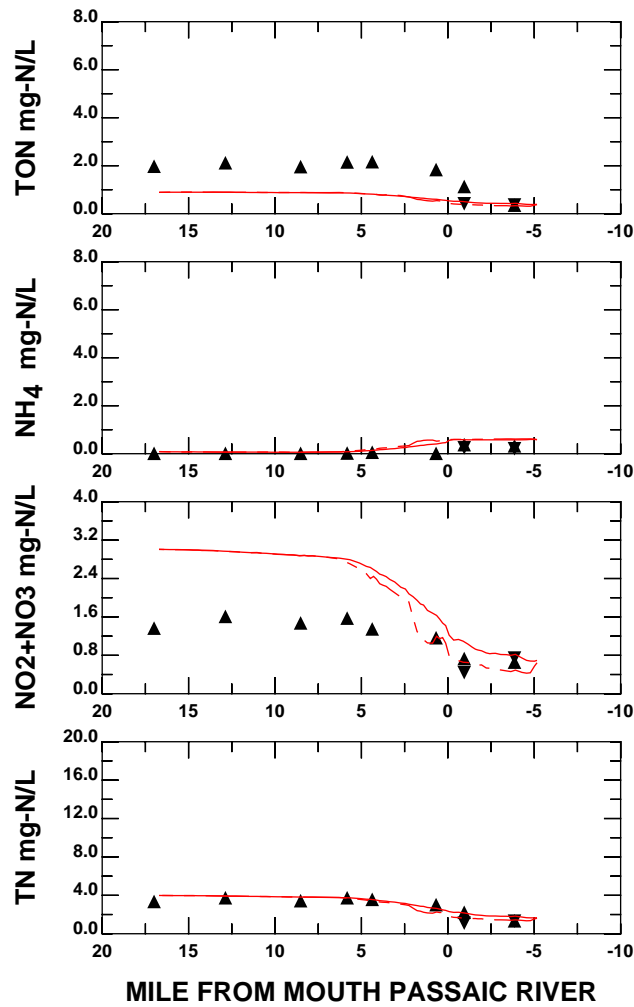
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

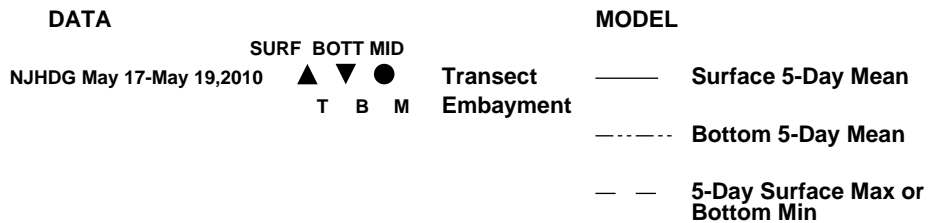
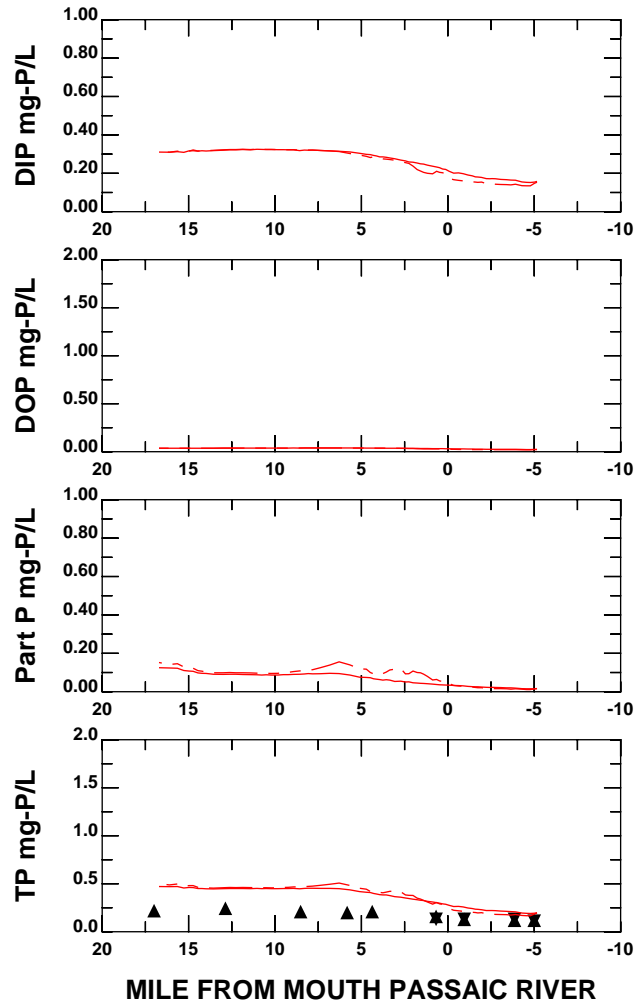
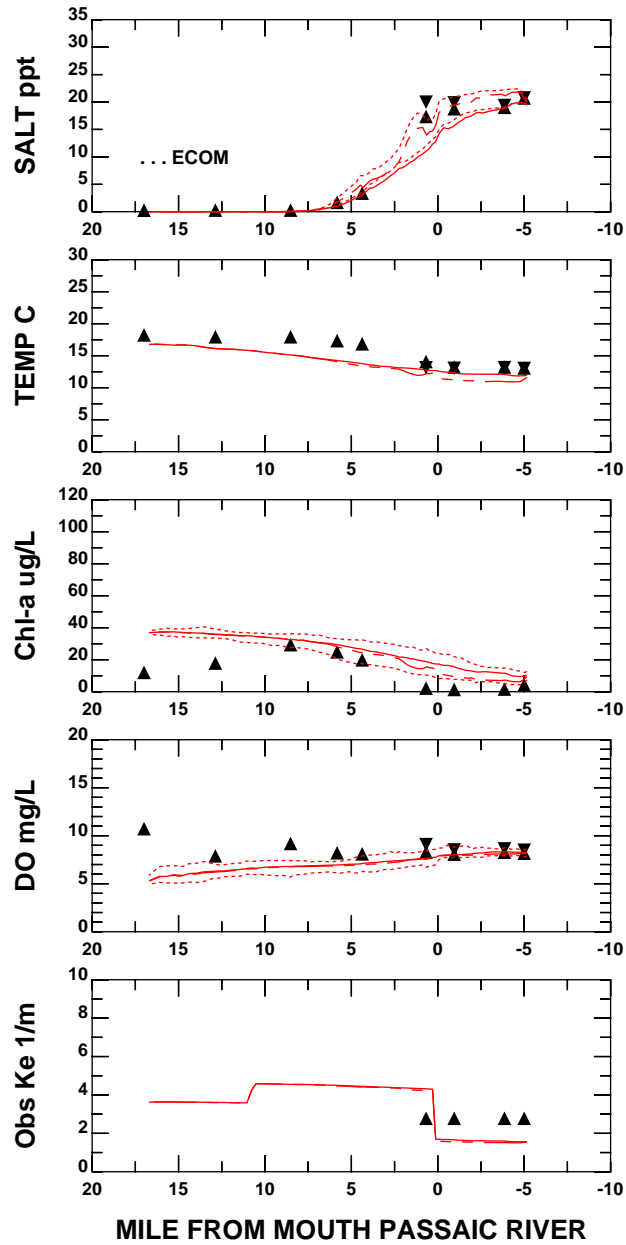




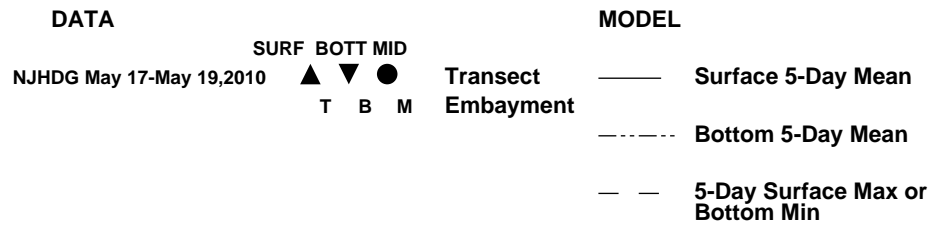
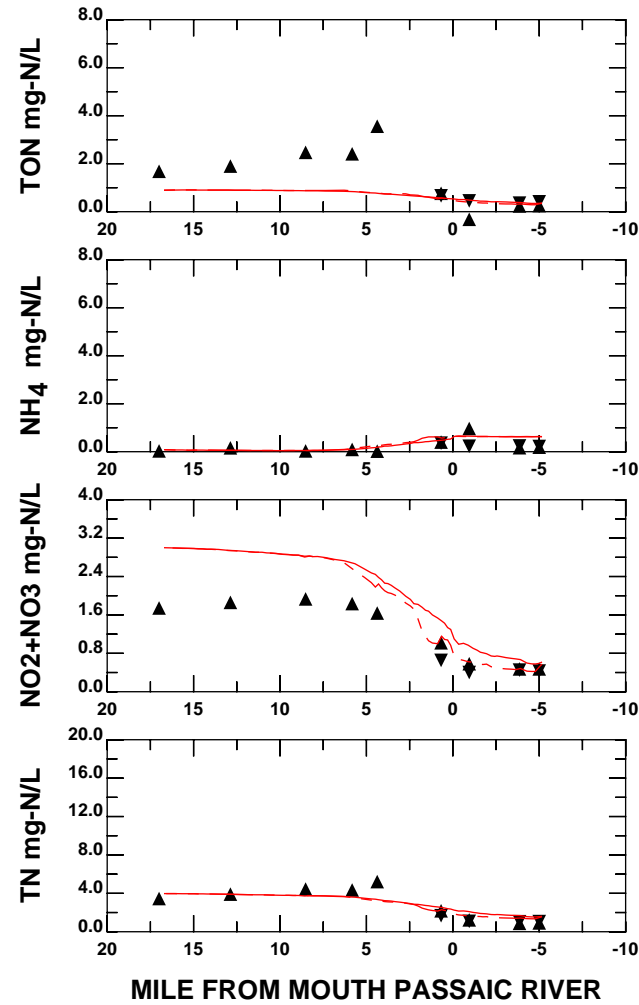
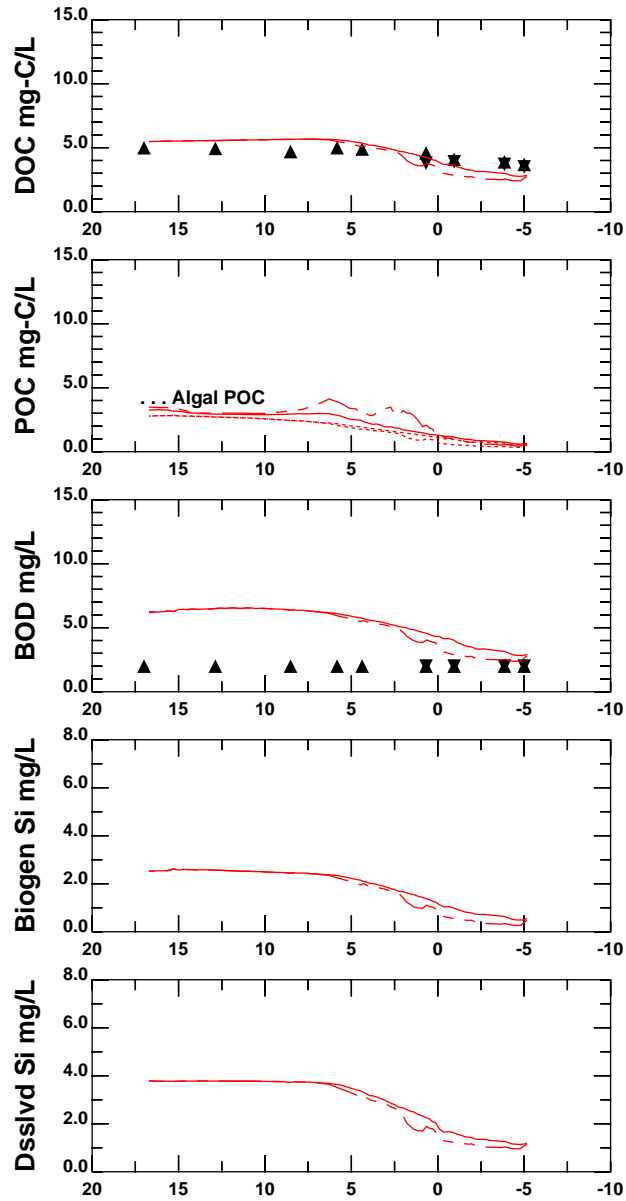


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

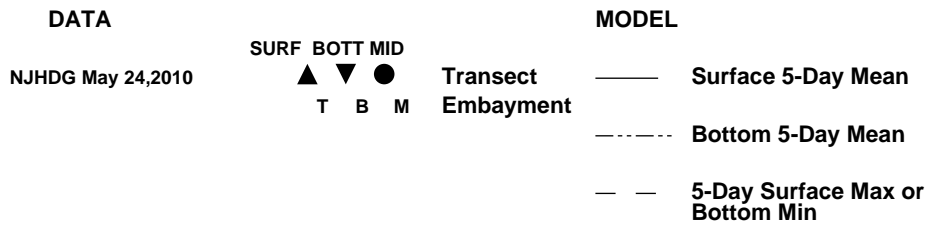
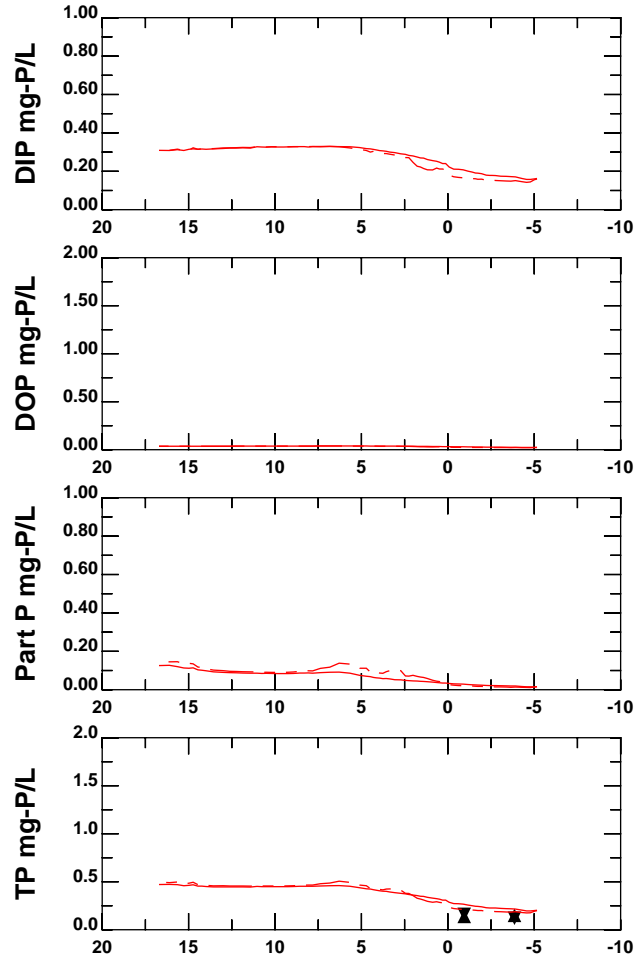
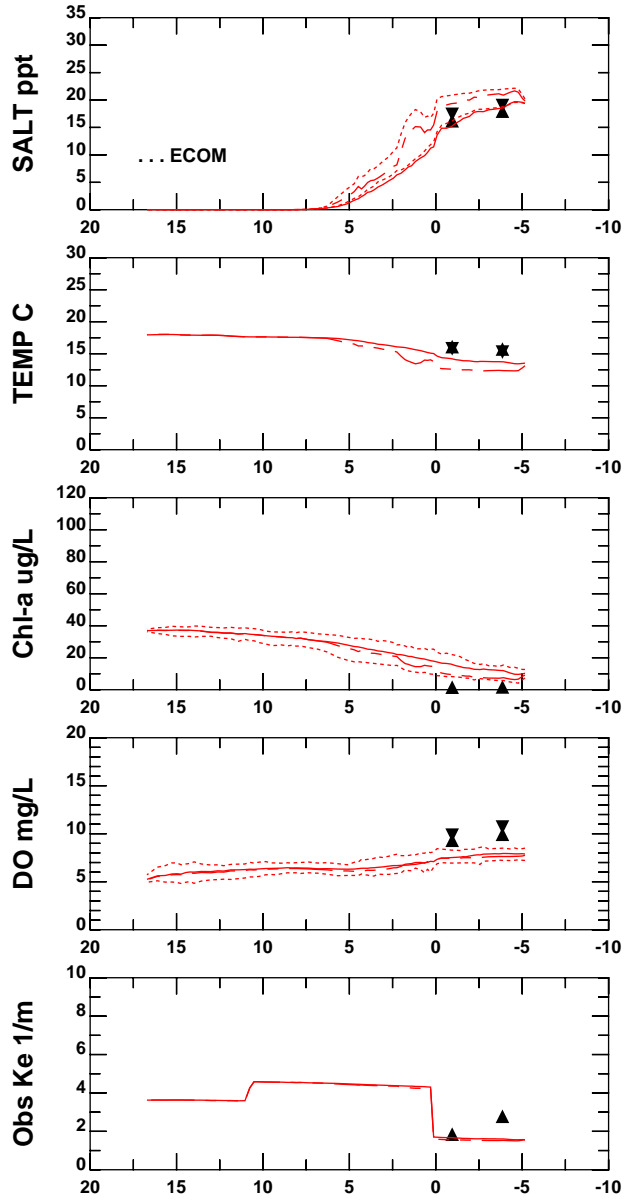




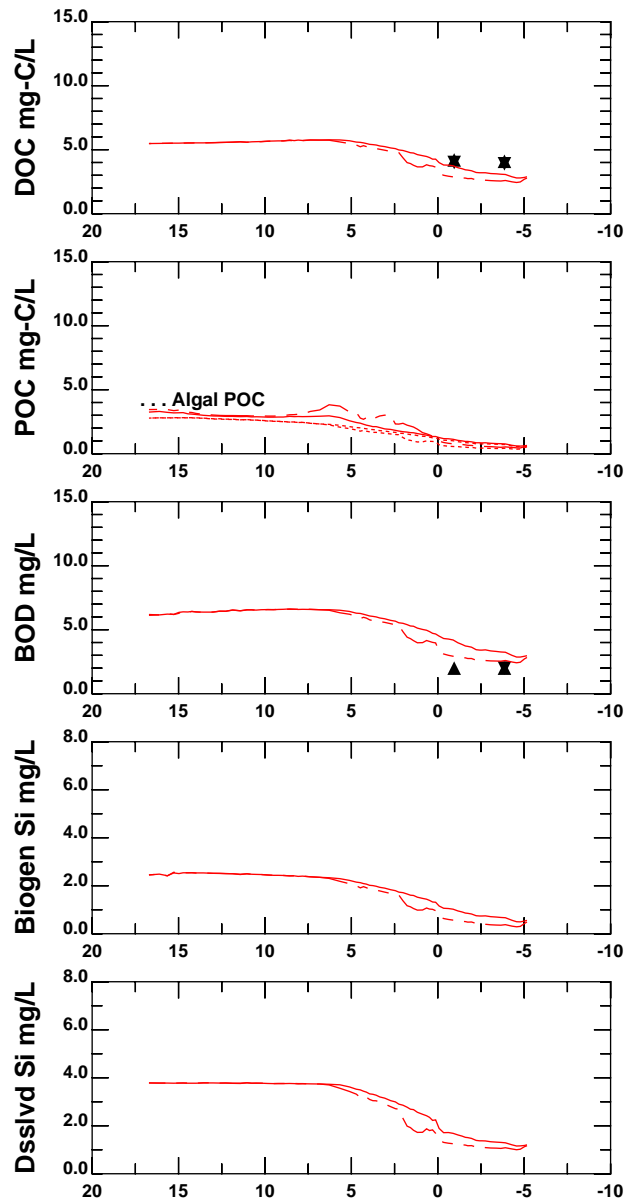
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



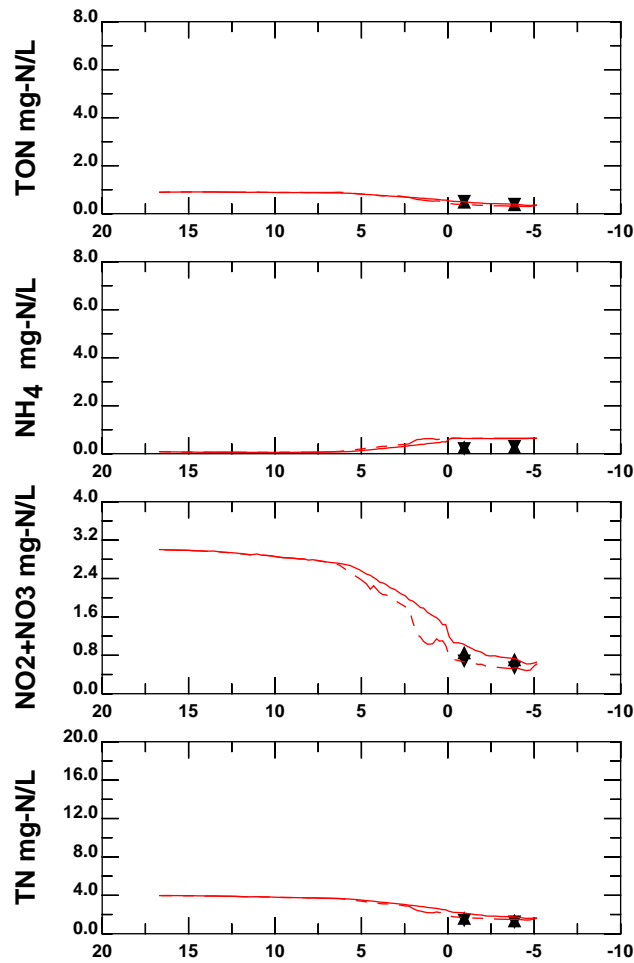
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER



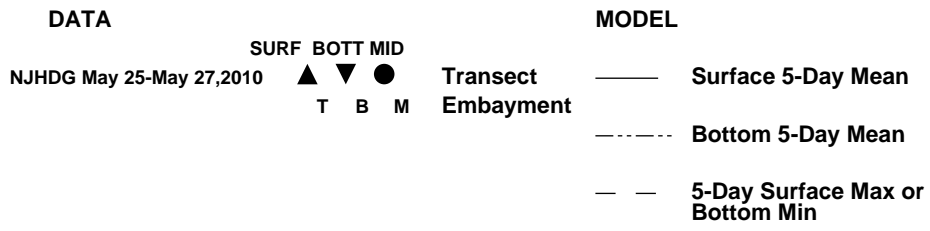
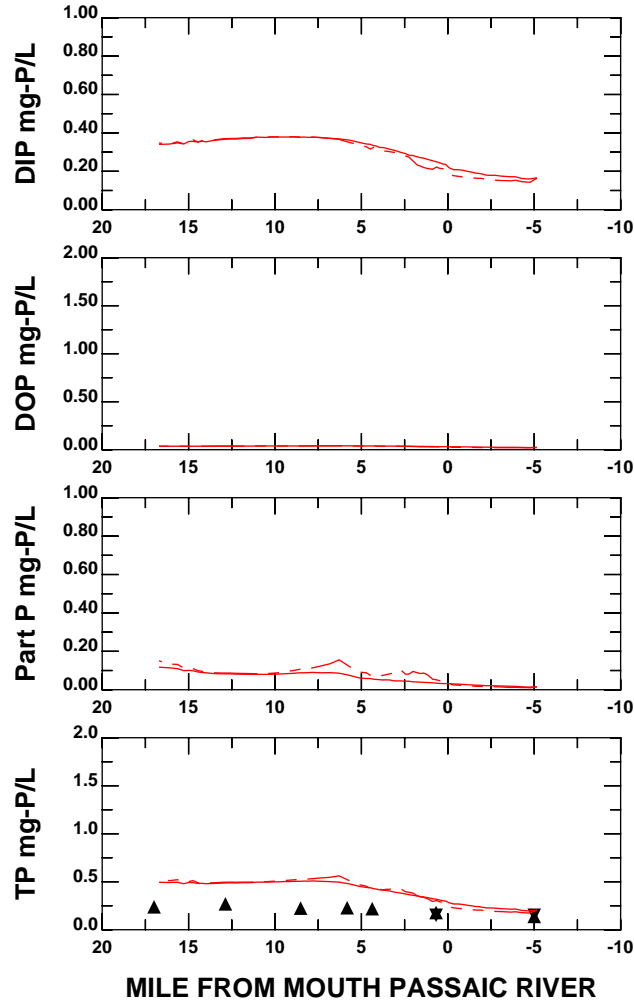
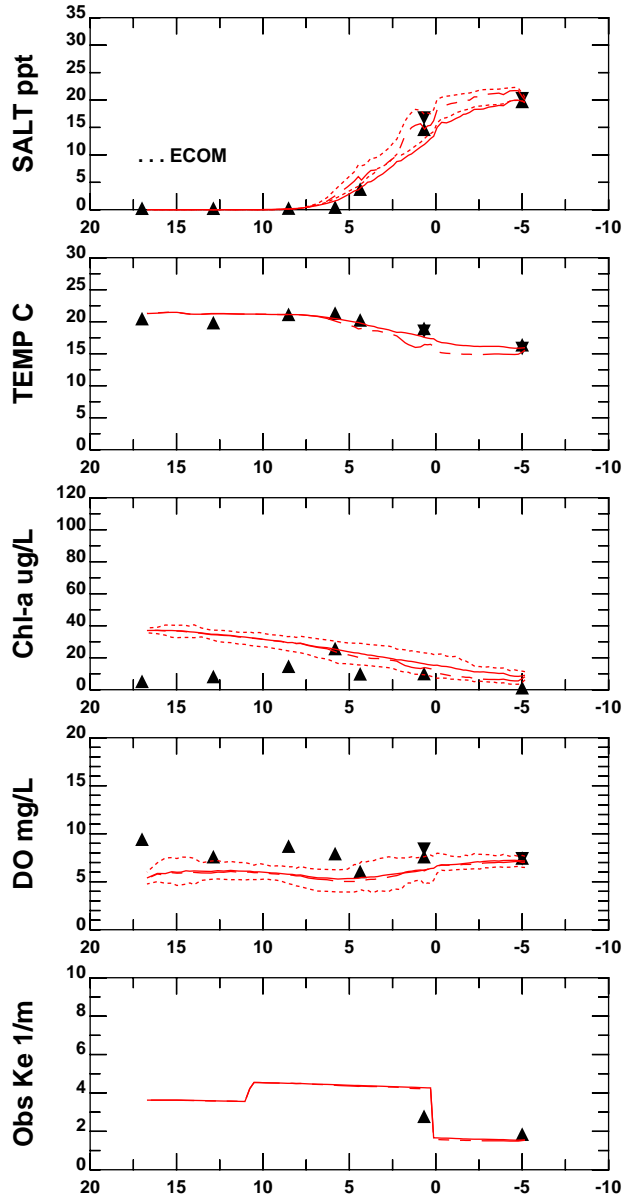
MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHGD May 24, 2010

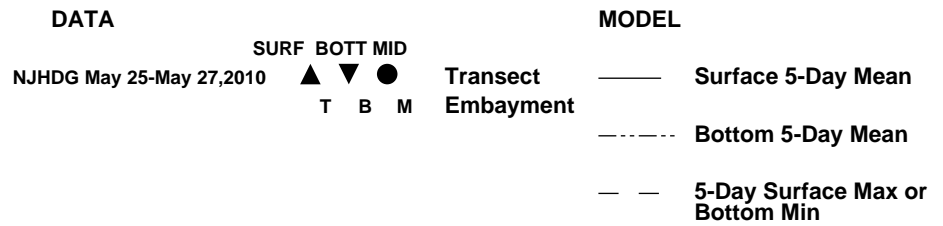
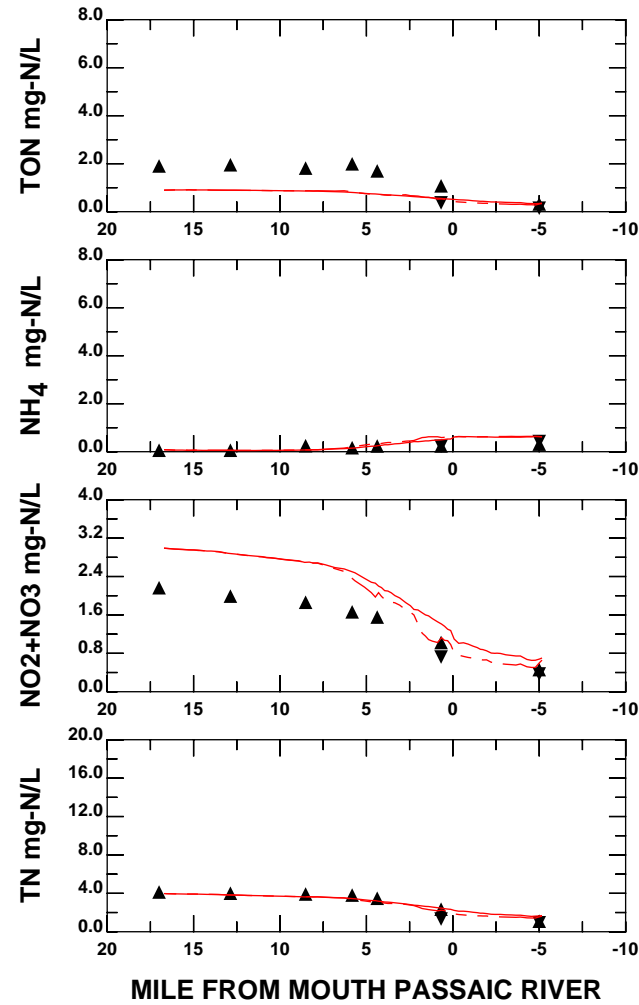
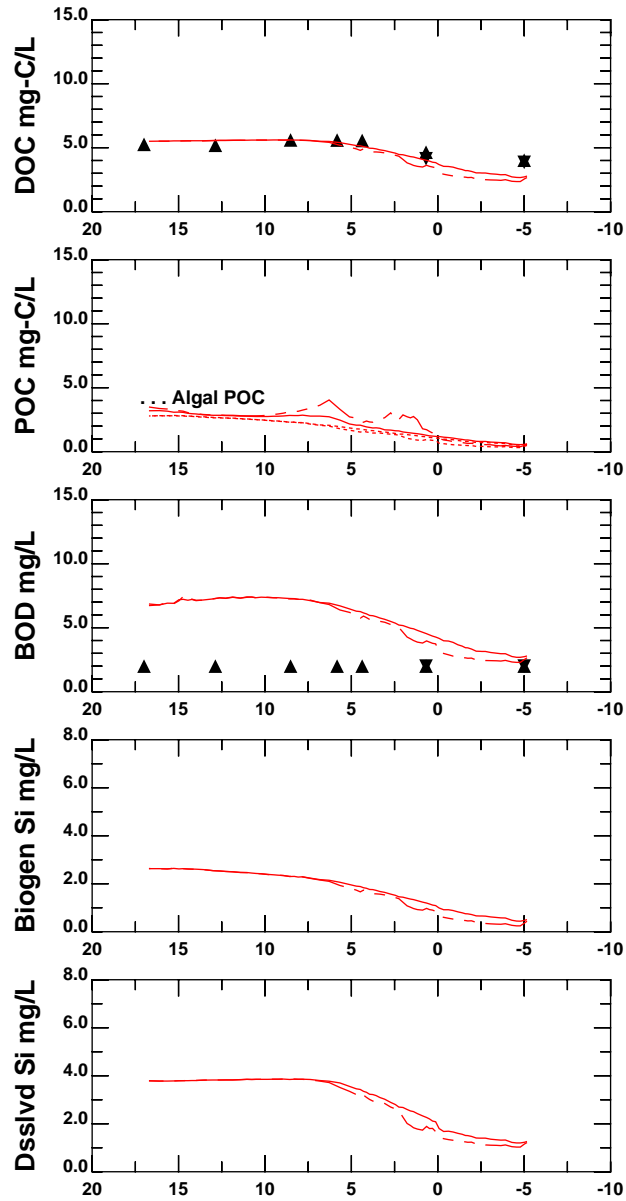
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

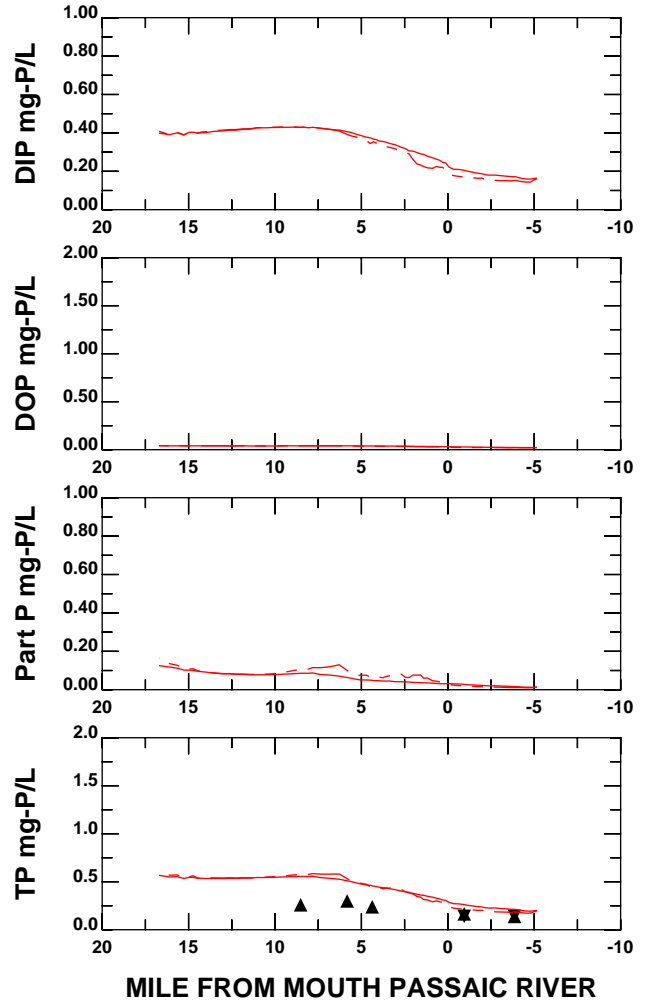
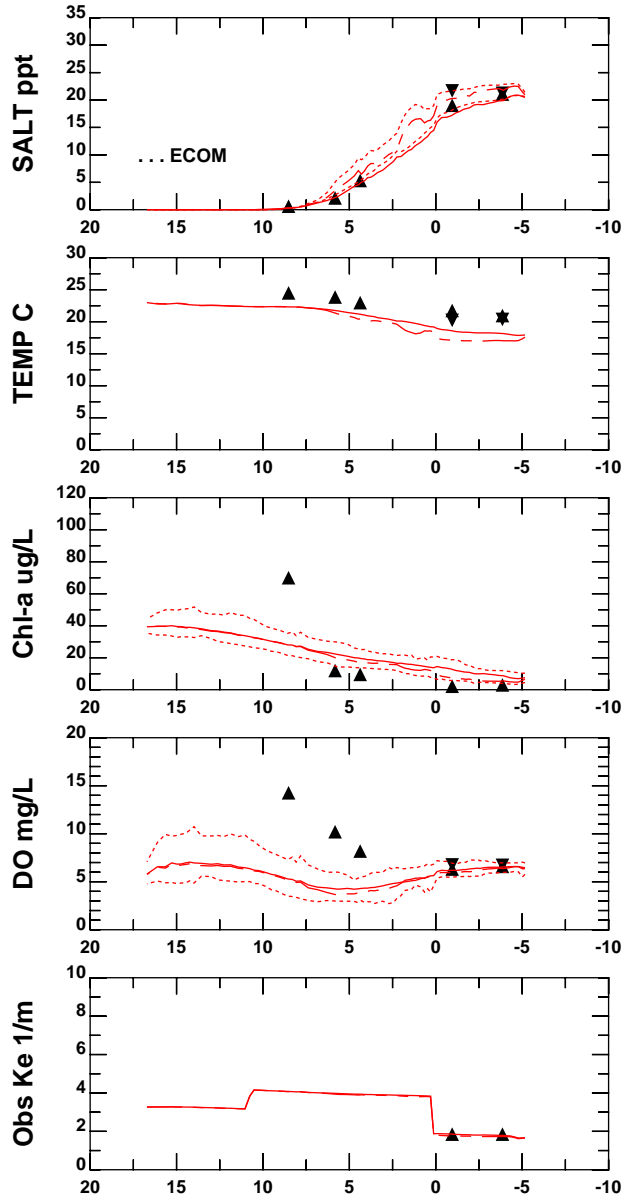
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**DATA**  
NJHDG Jun 03,2010

**MODEL**

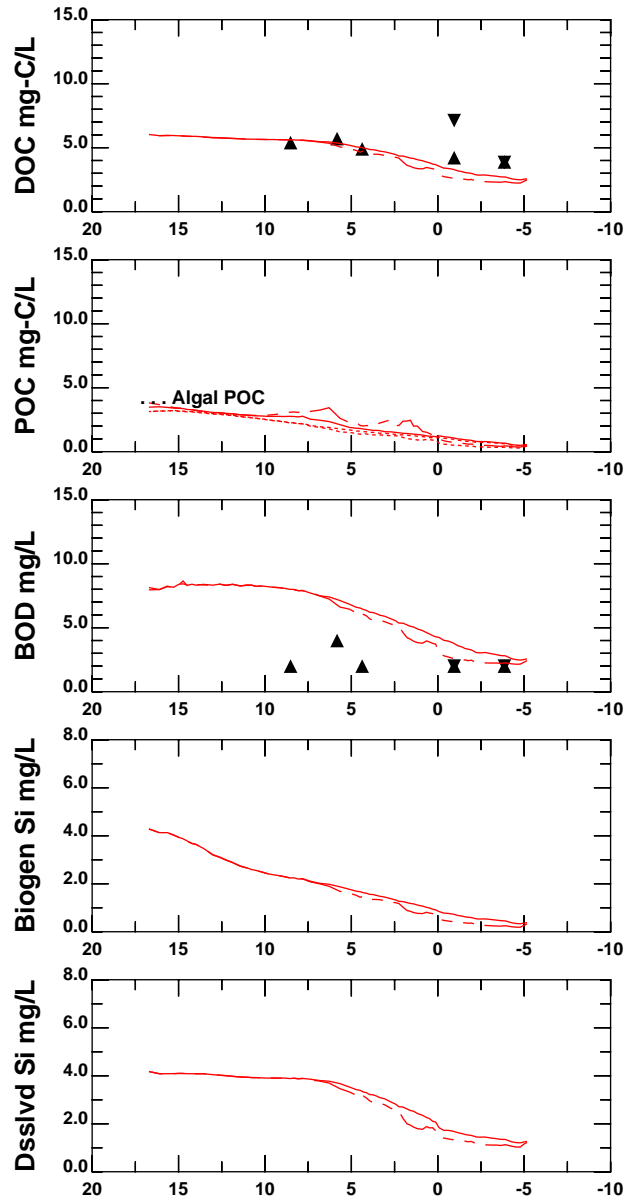
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

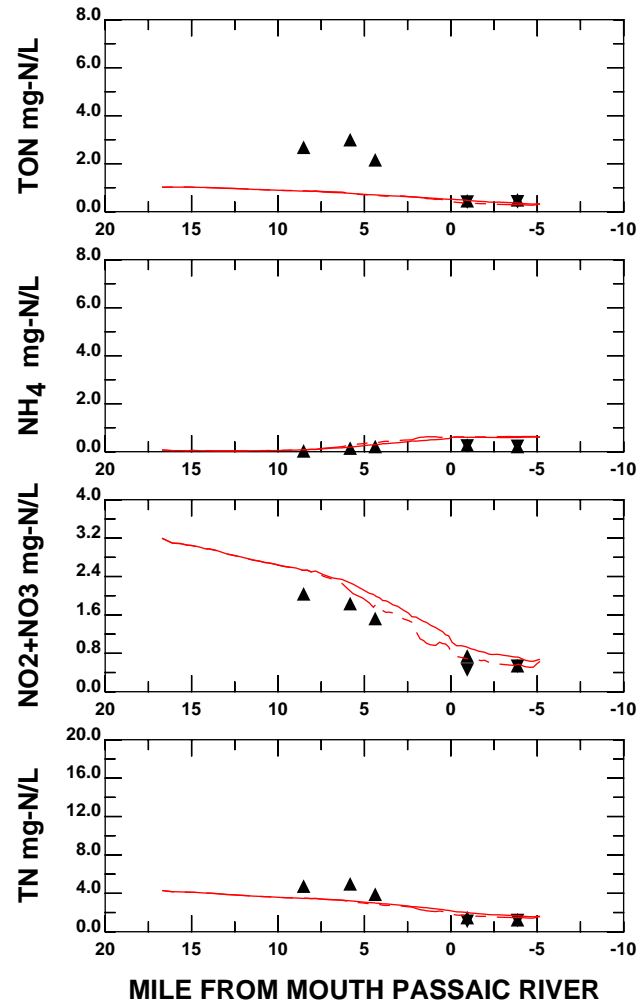




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



#### DATA

NJHDG Jun 03,2010

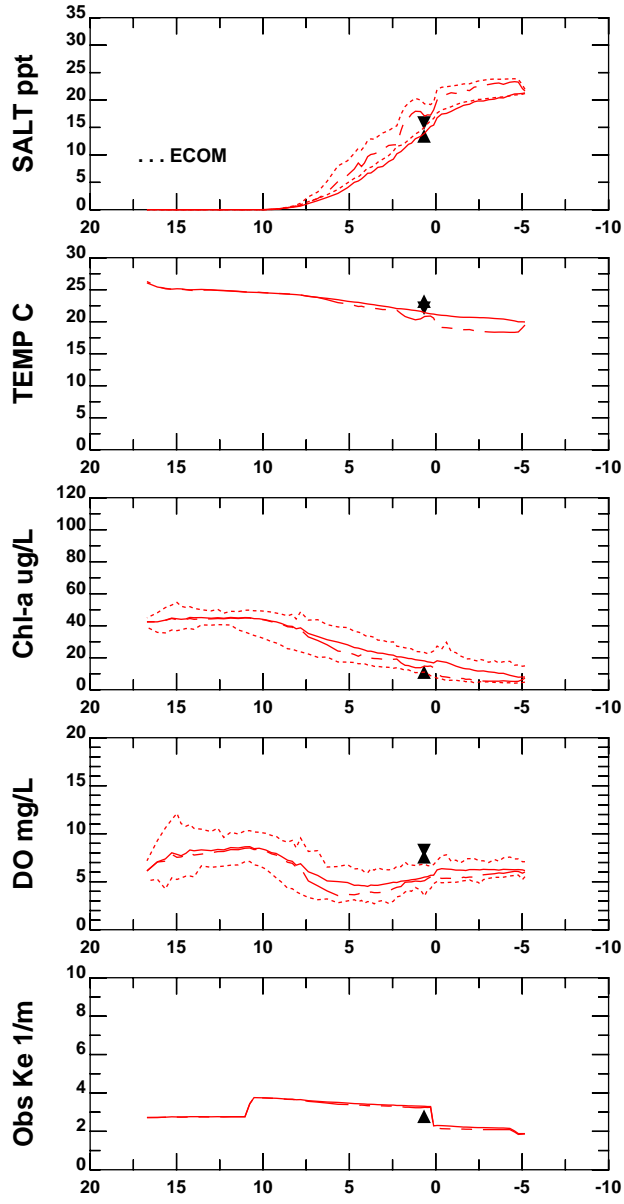
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

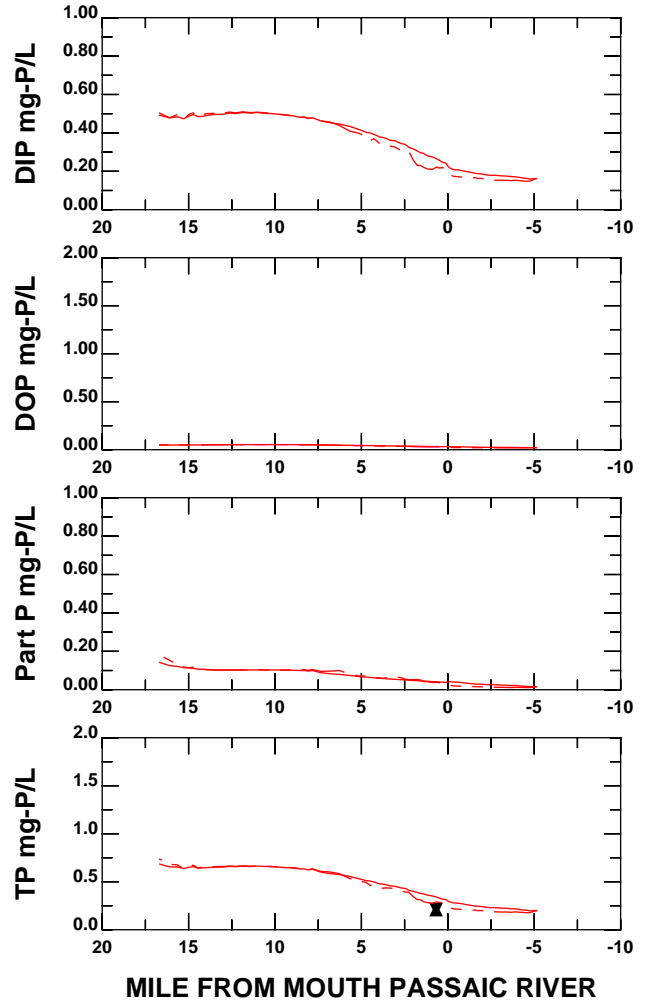
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 0910

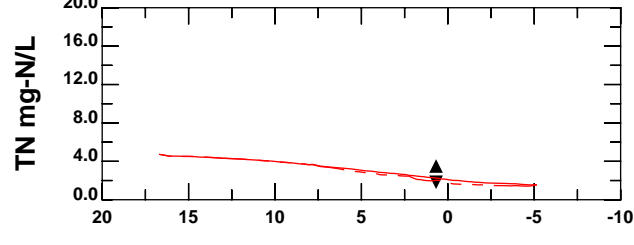
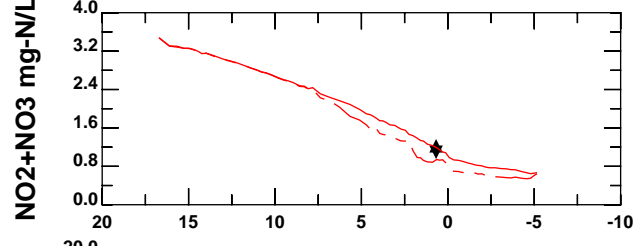
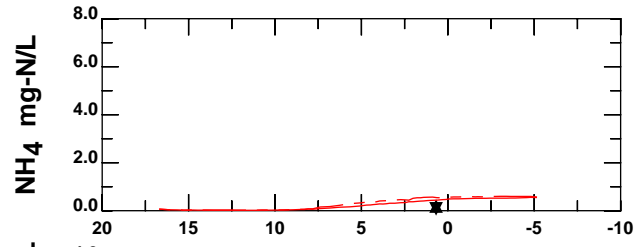
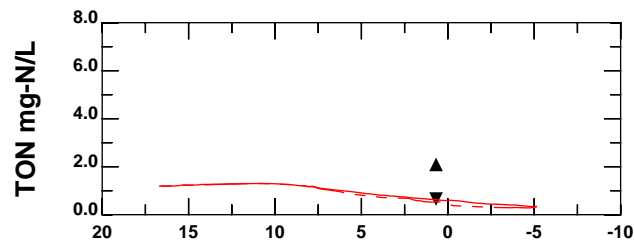
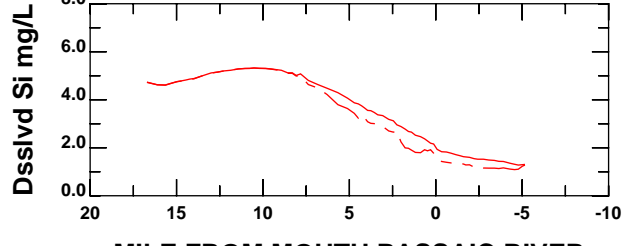
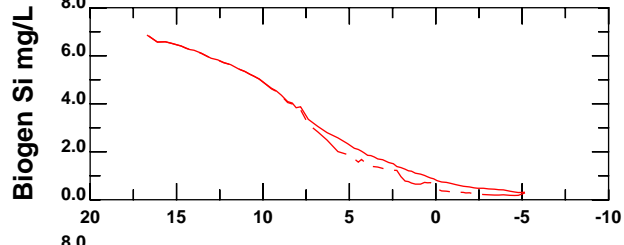
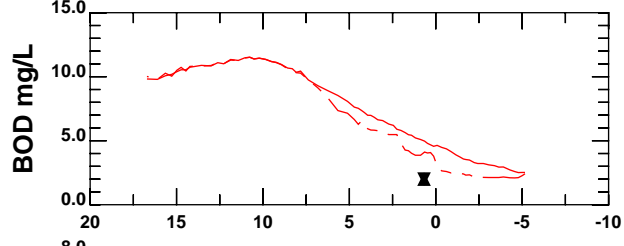
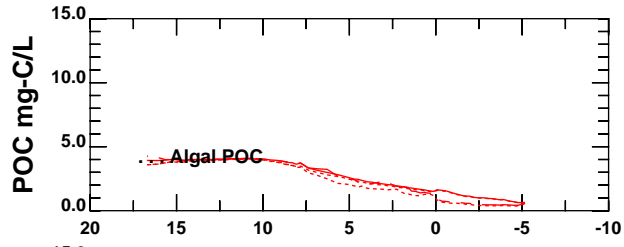
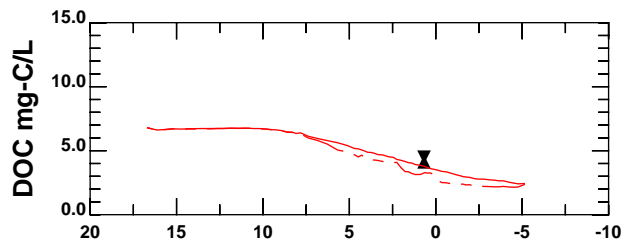


**DATA**  
NJHDG Jun 07,2010

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



DATA  
NJHDG Jun 07,2010

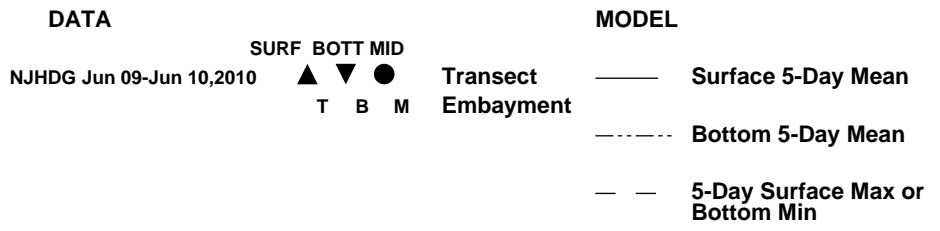
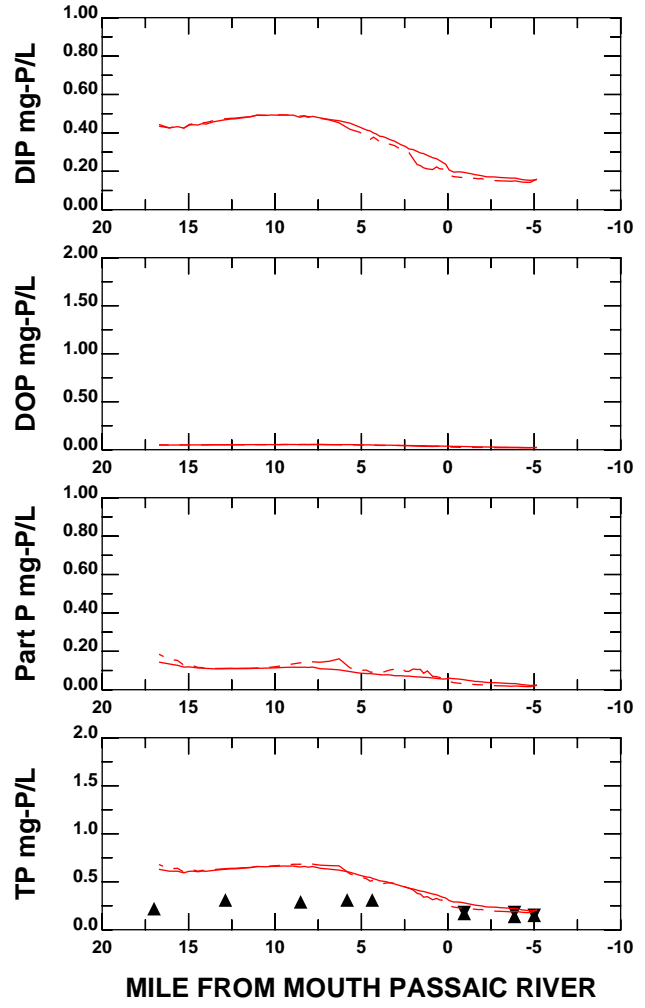
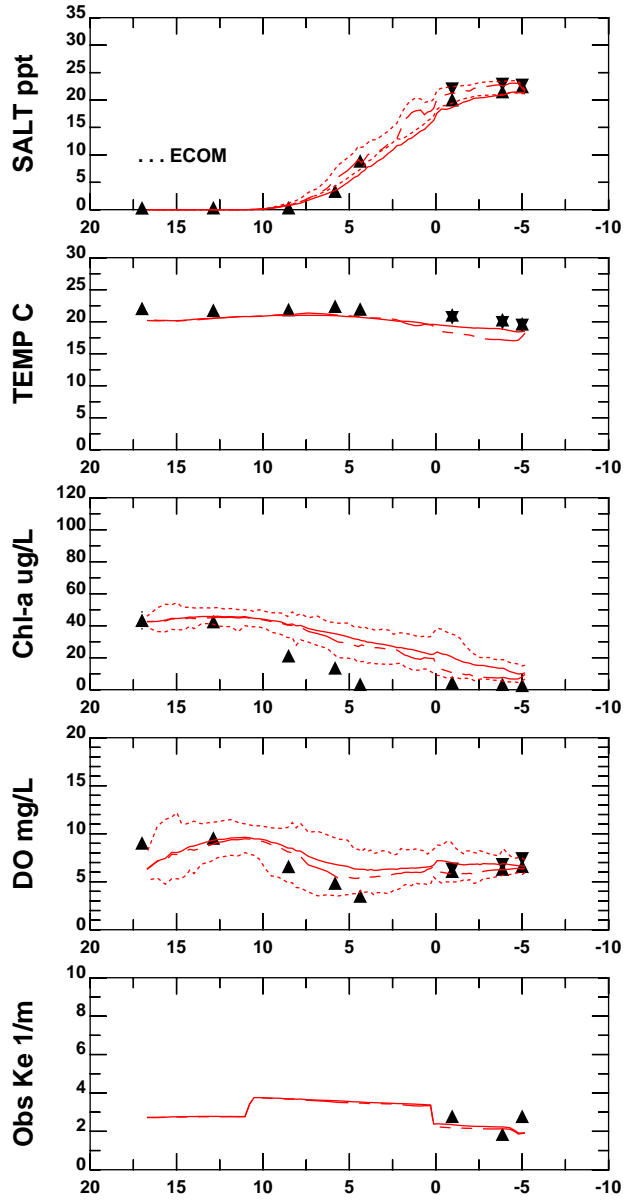
MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

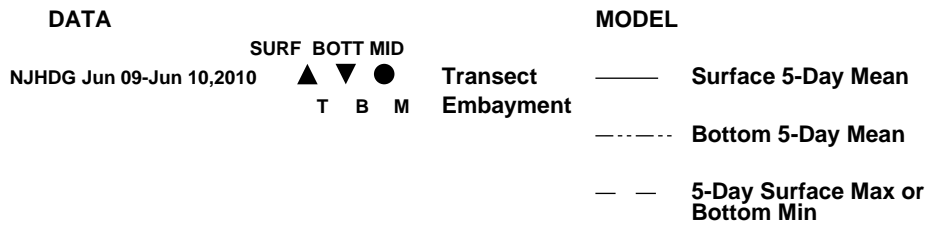
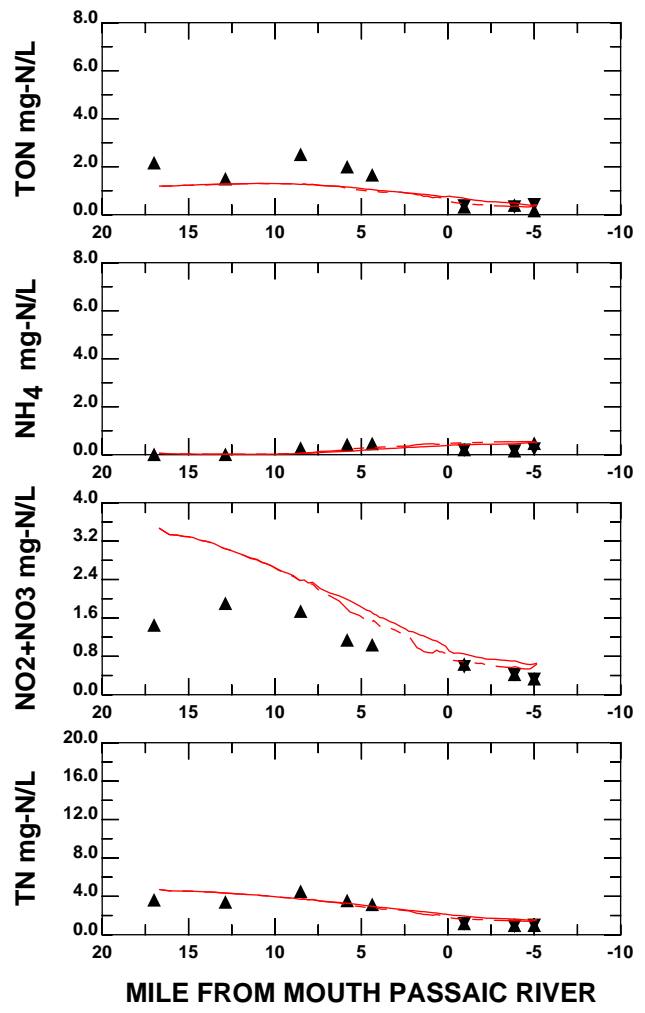
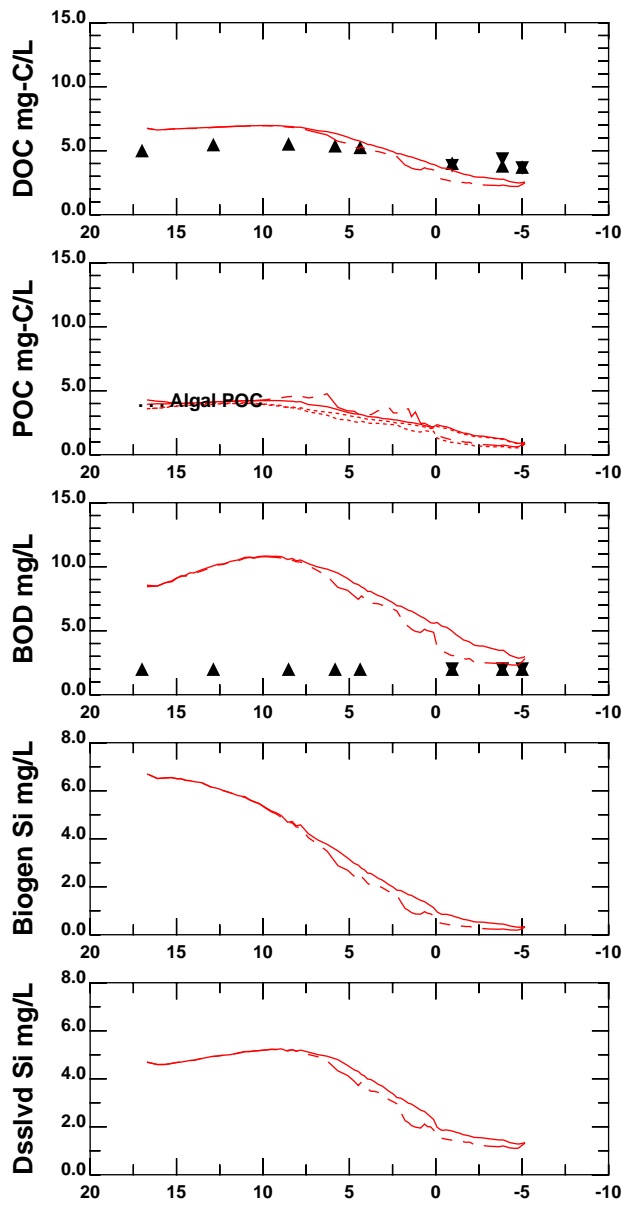
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

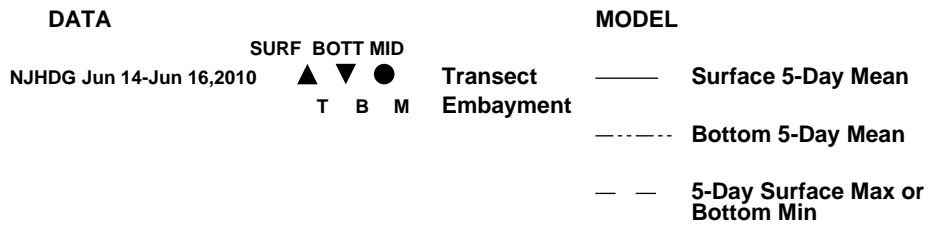
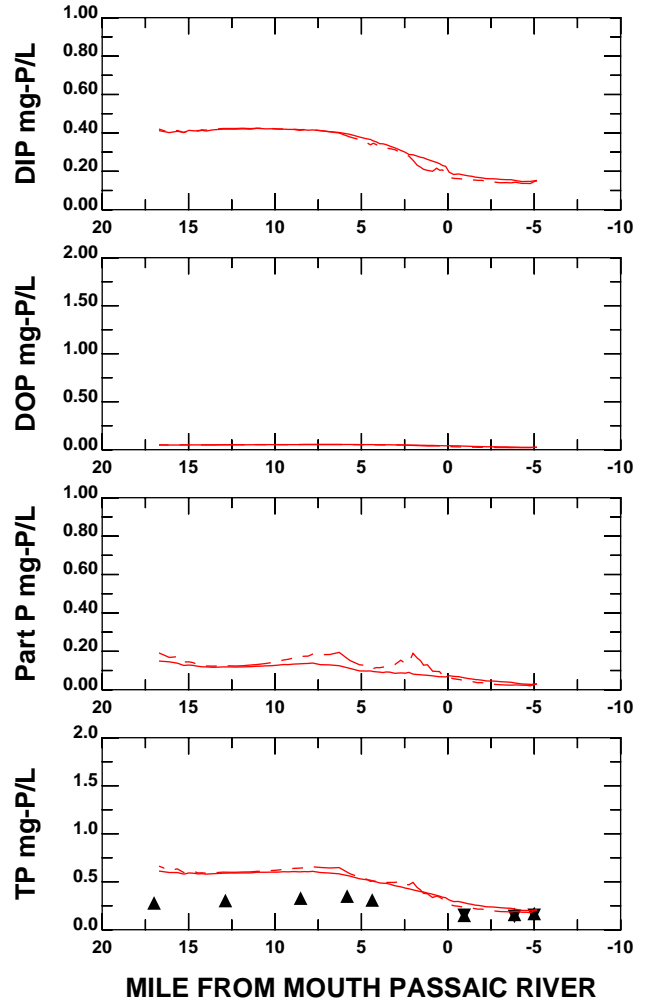
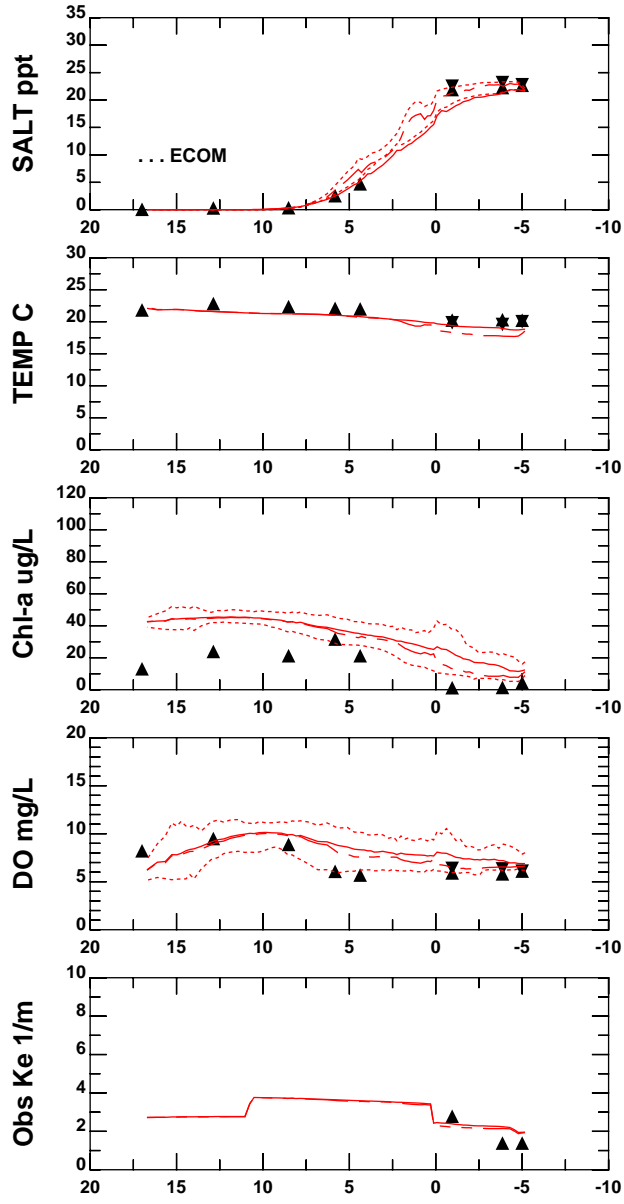
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



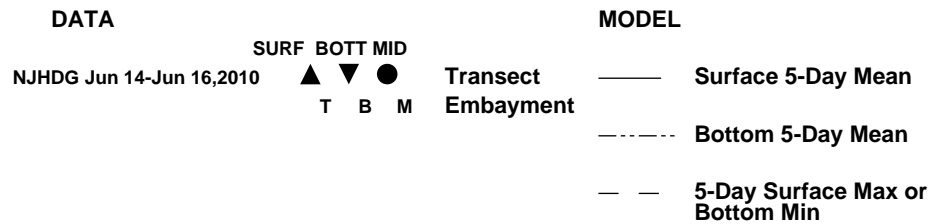
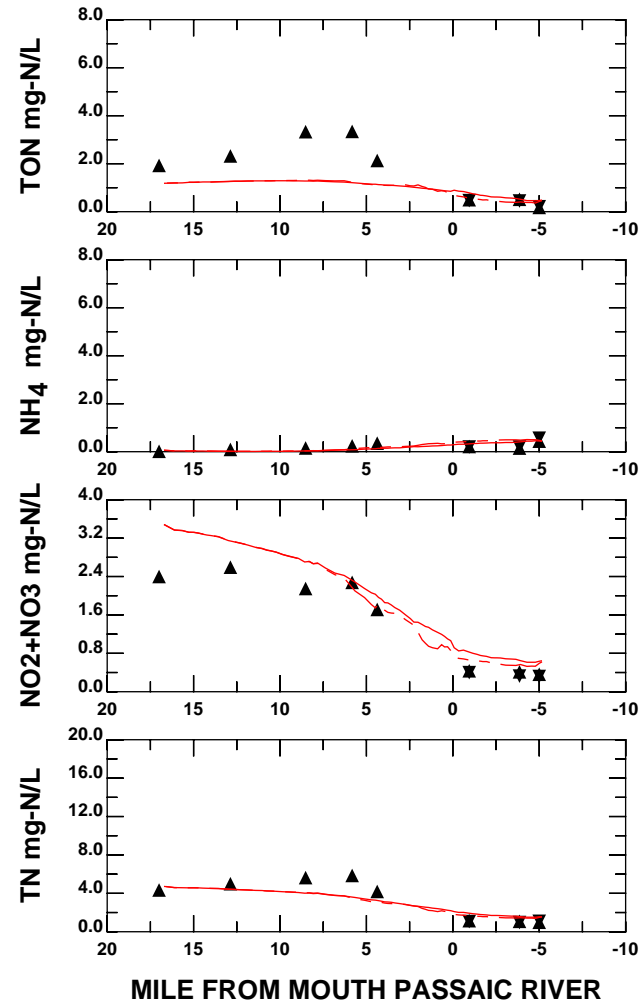
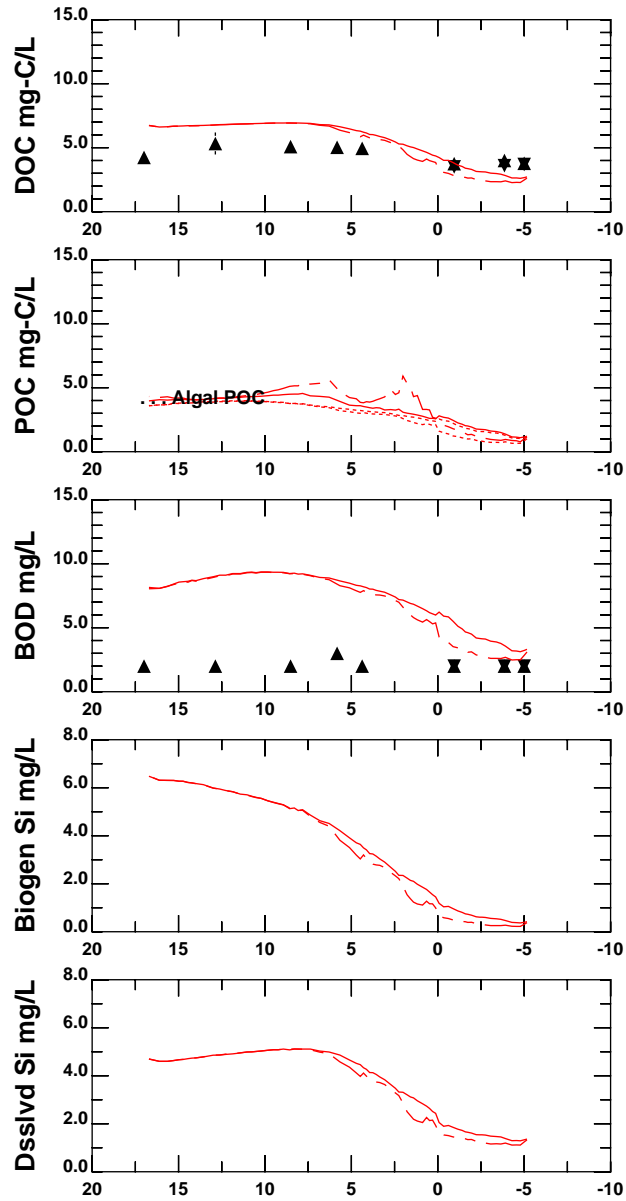
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



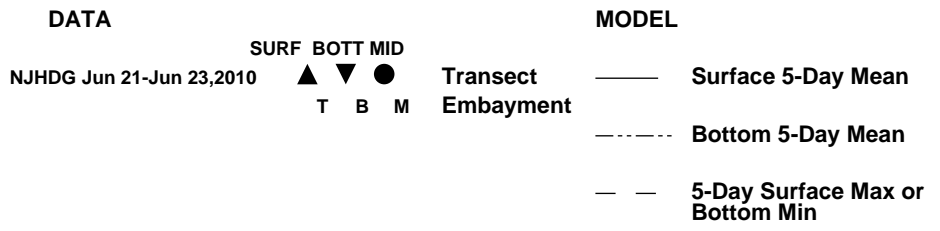
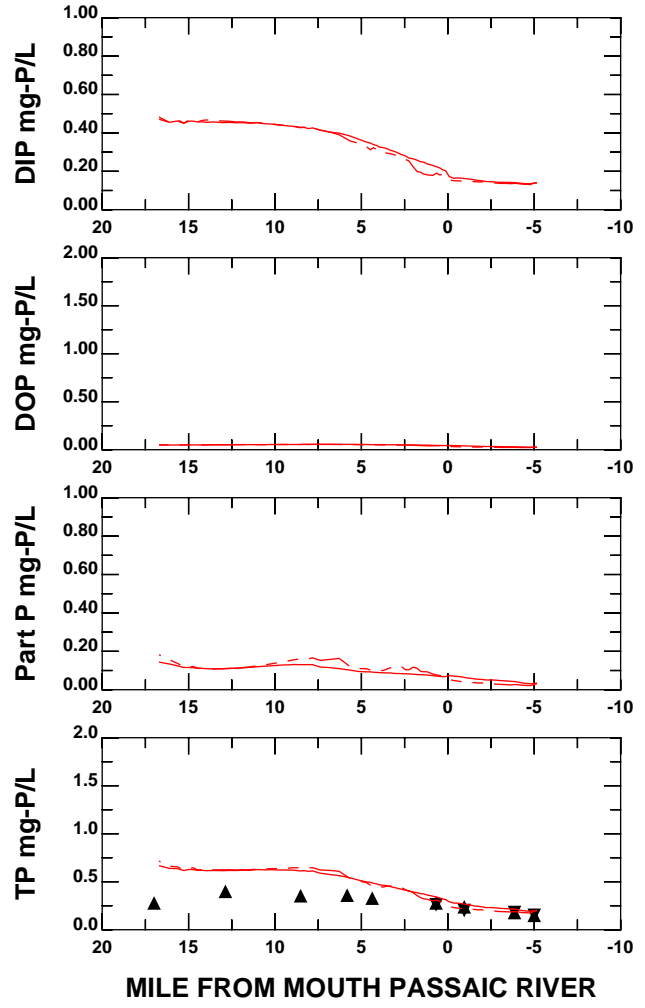
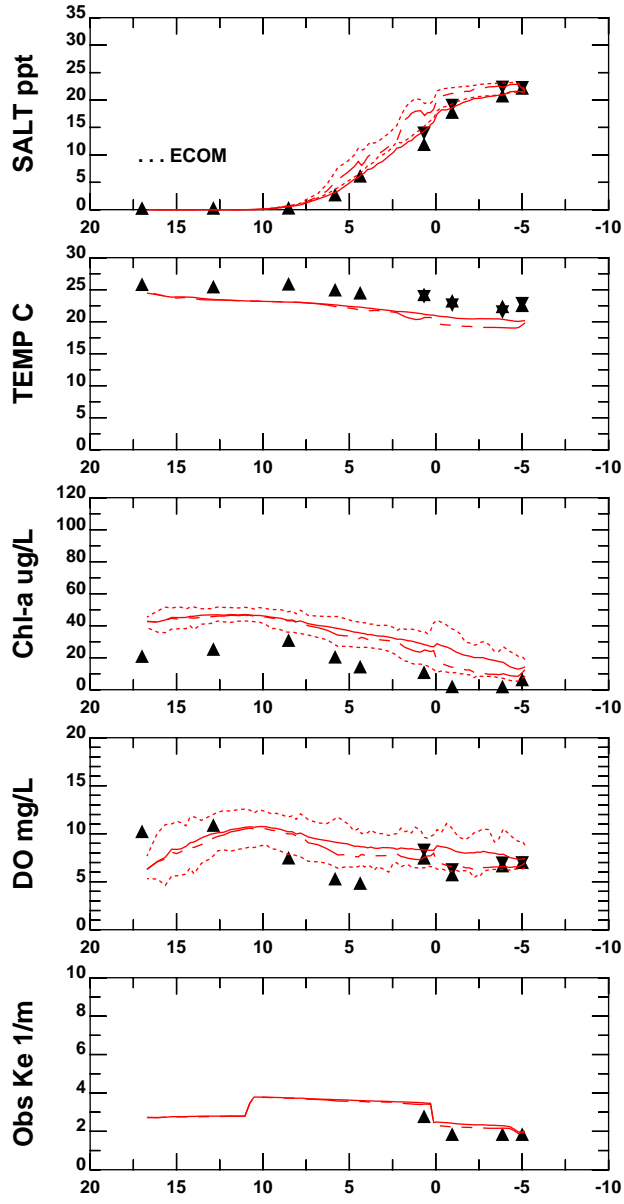
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

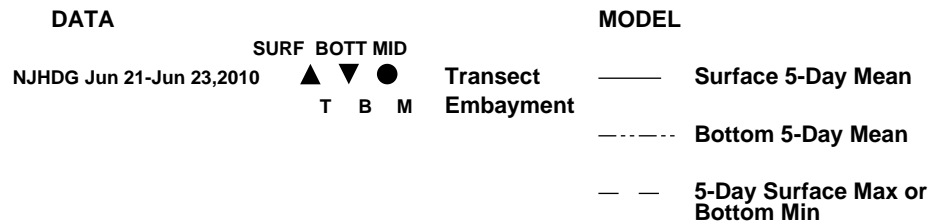
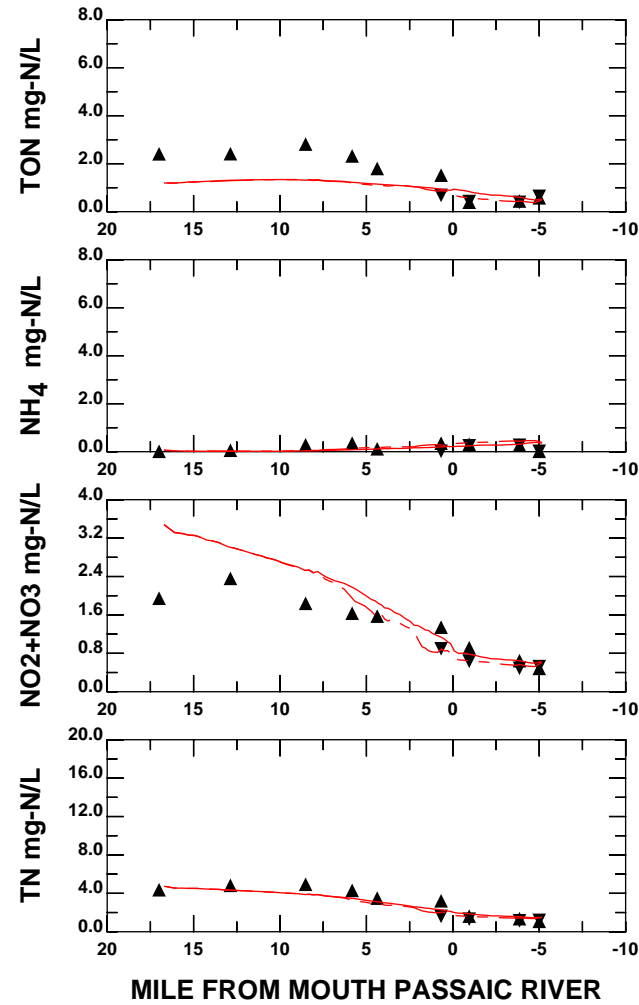
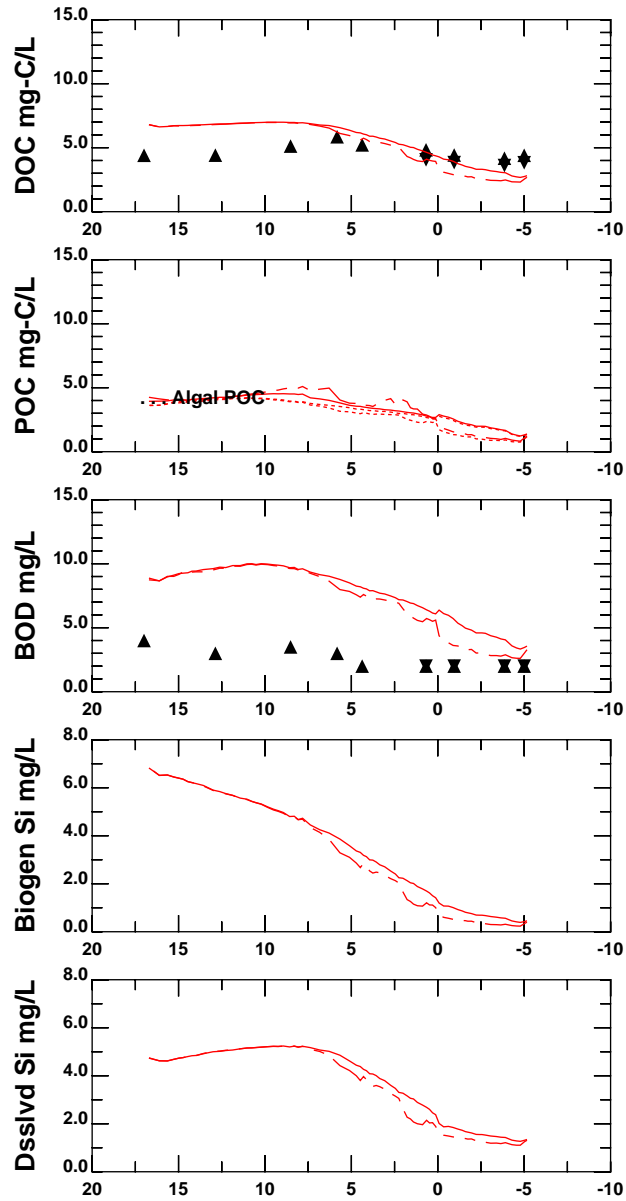


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

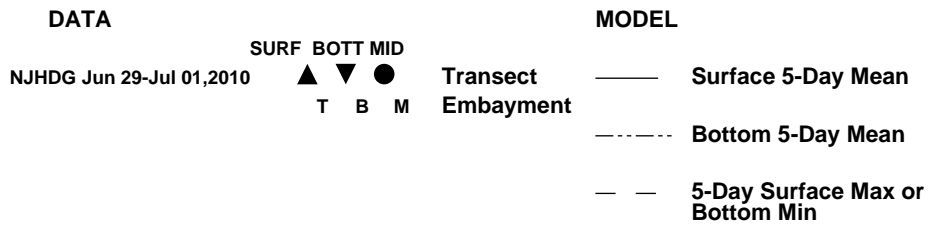
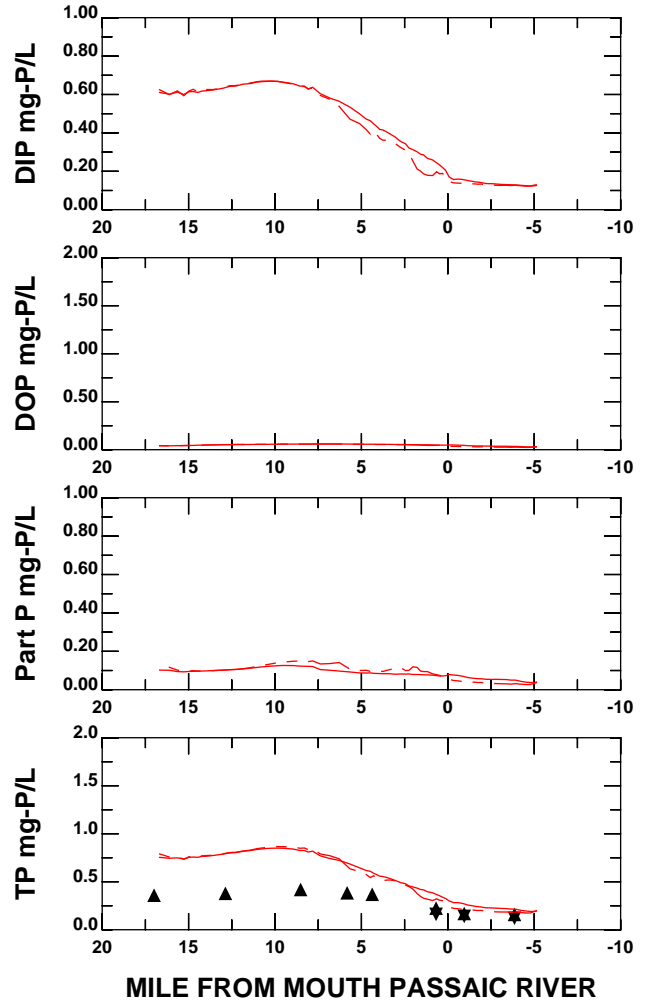
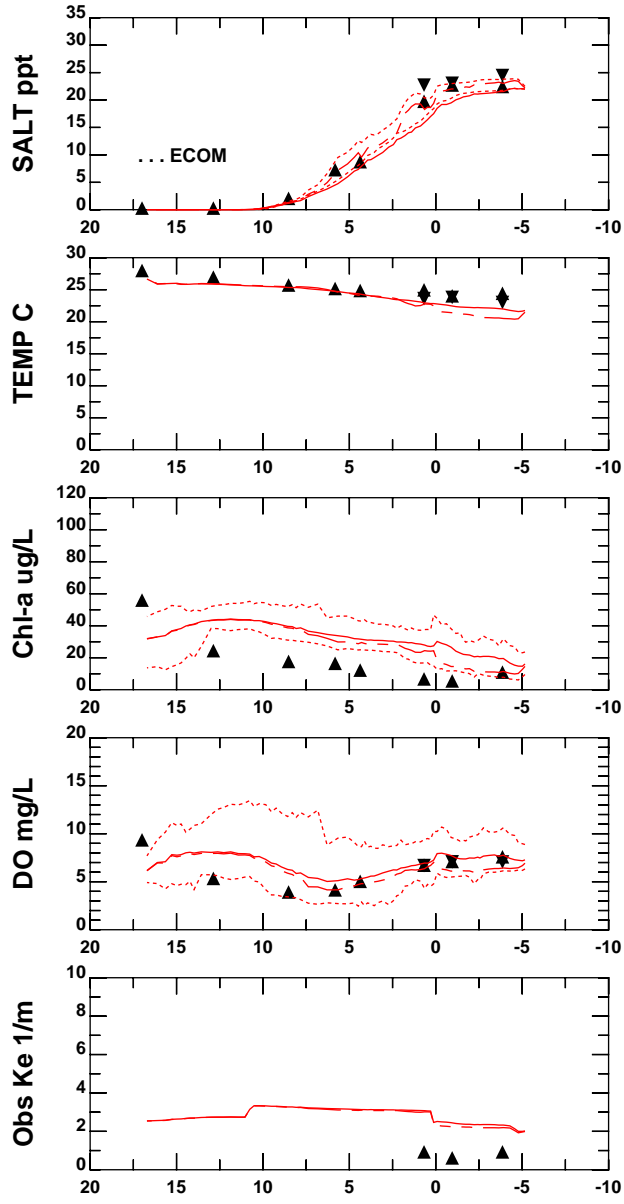


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

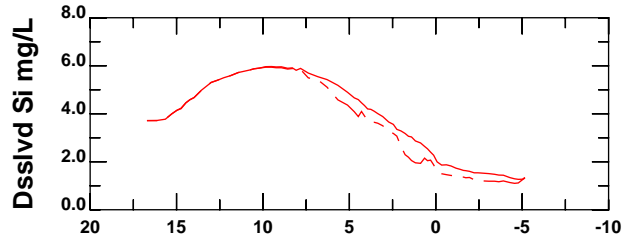
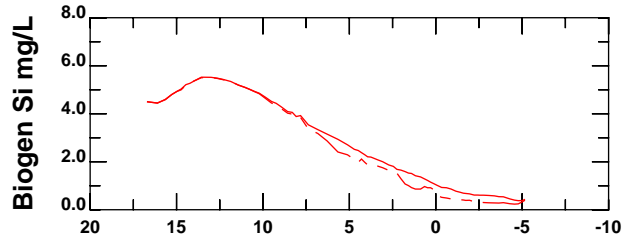
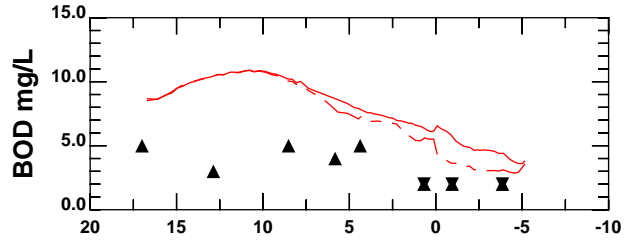
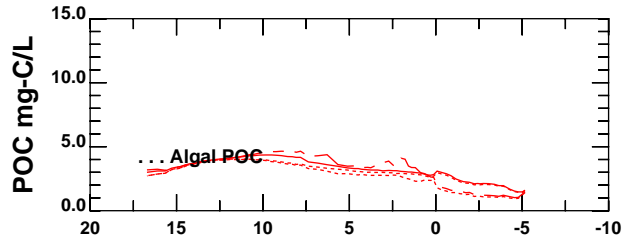
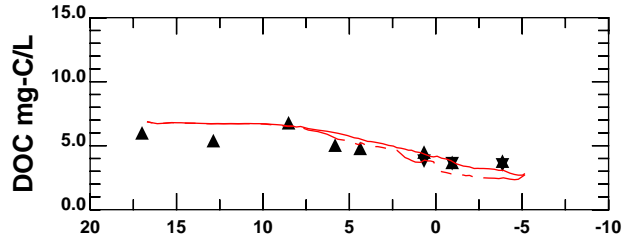




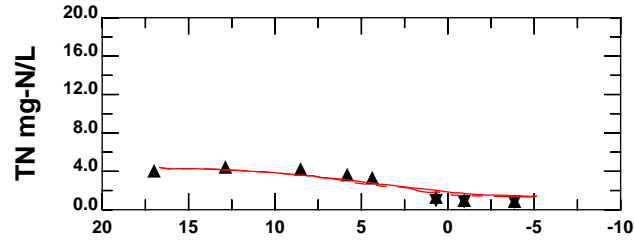
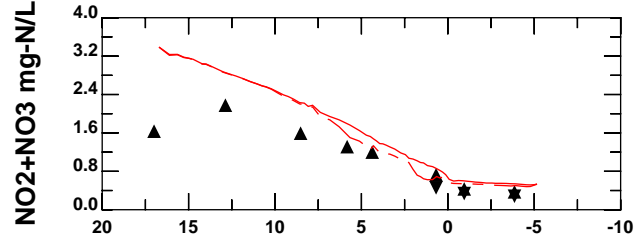
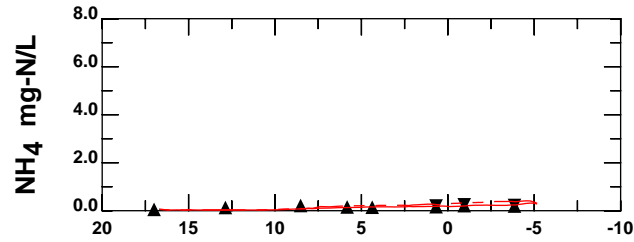
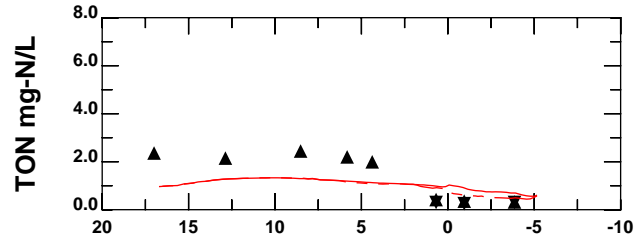
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



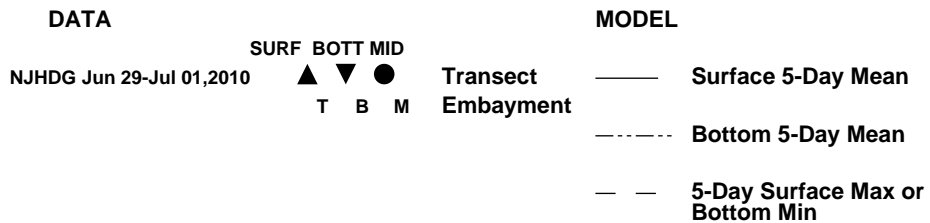
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



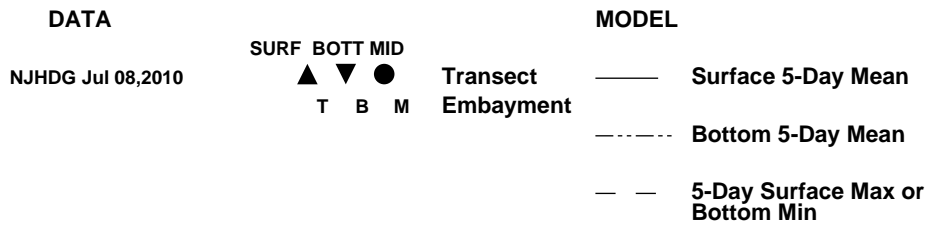
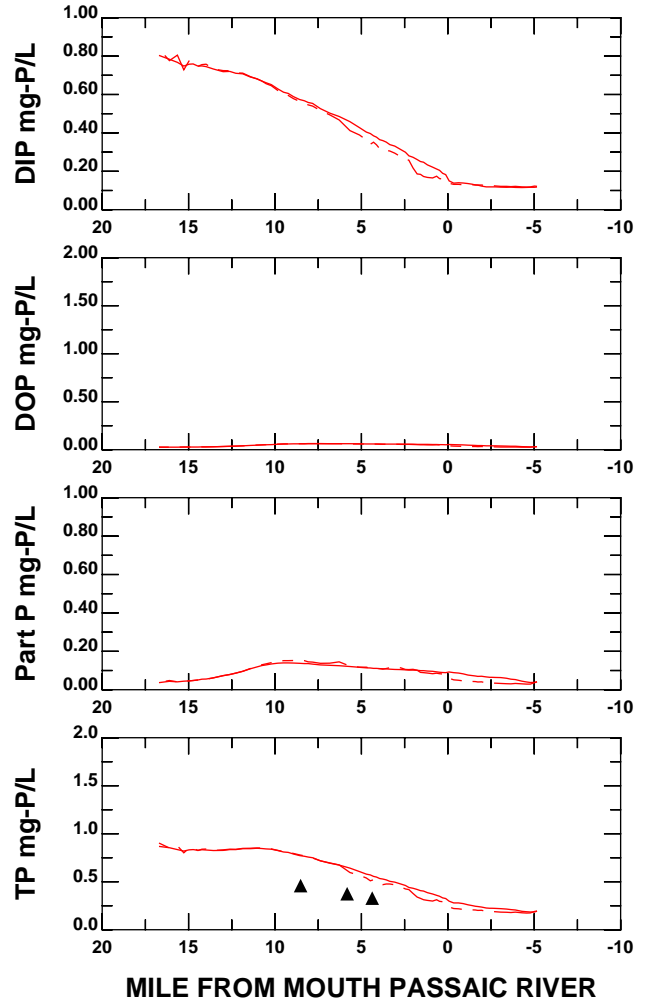
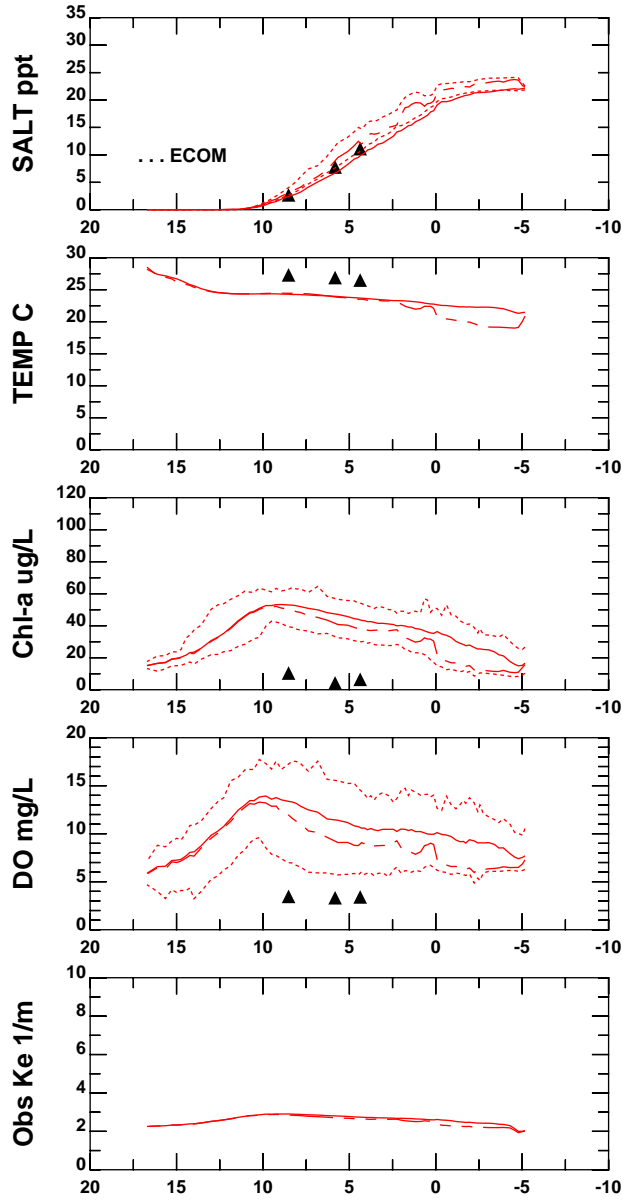
MILE FROM MOUTH PASSAIC RIVER



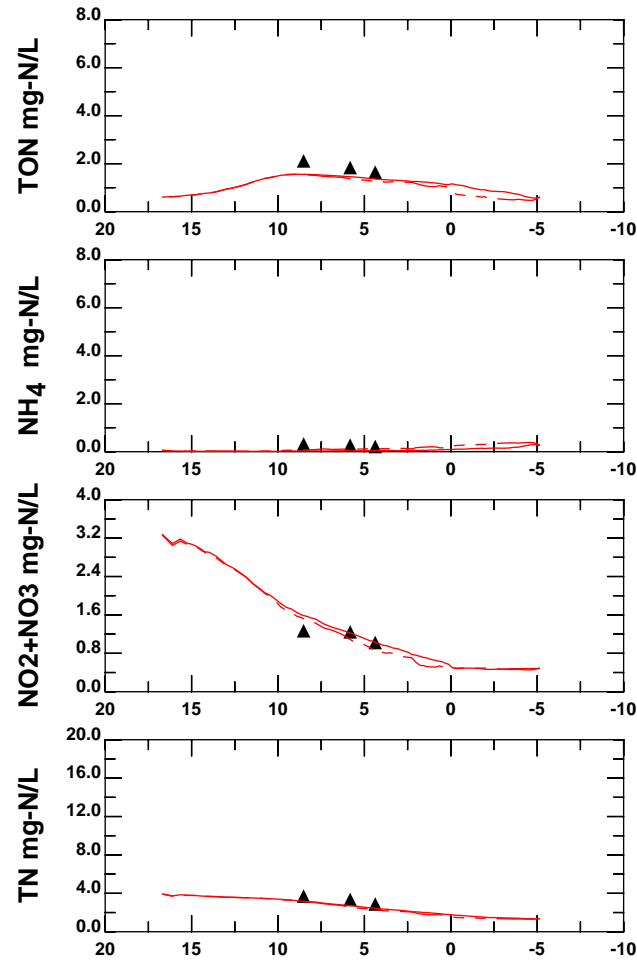
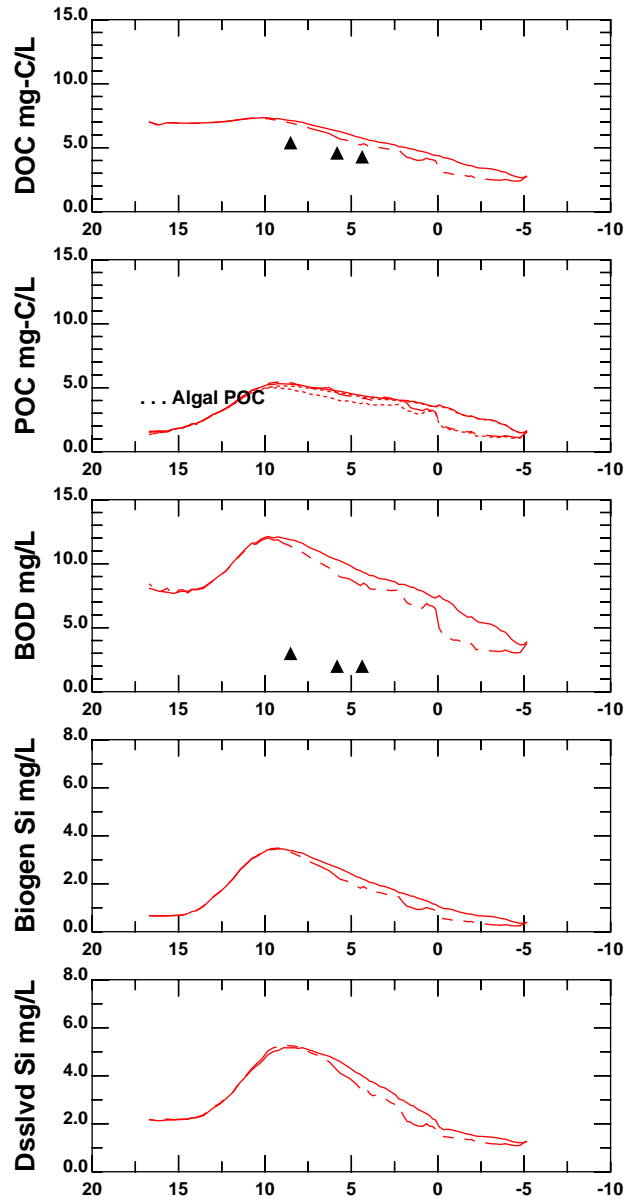
MILE FROM MOUTH PASSAIC RIVER



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



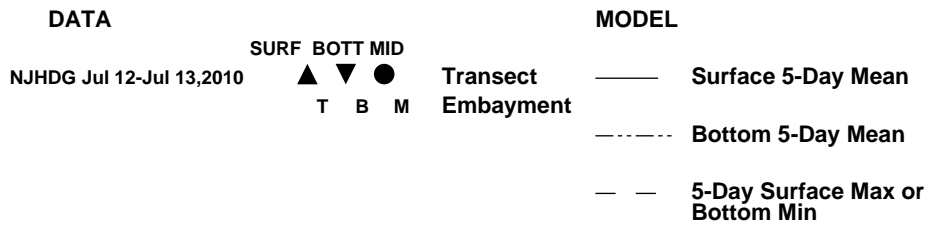
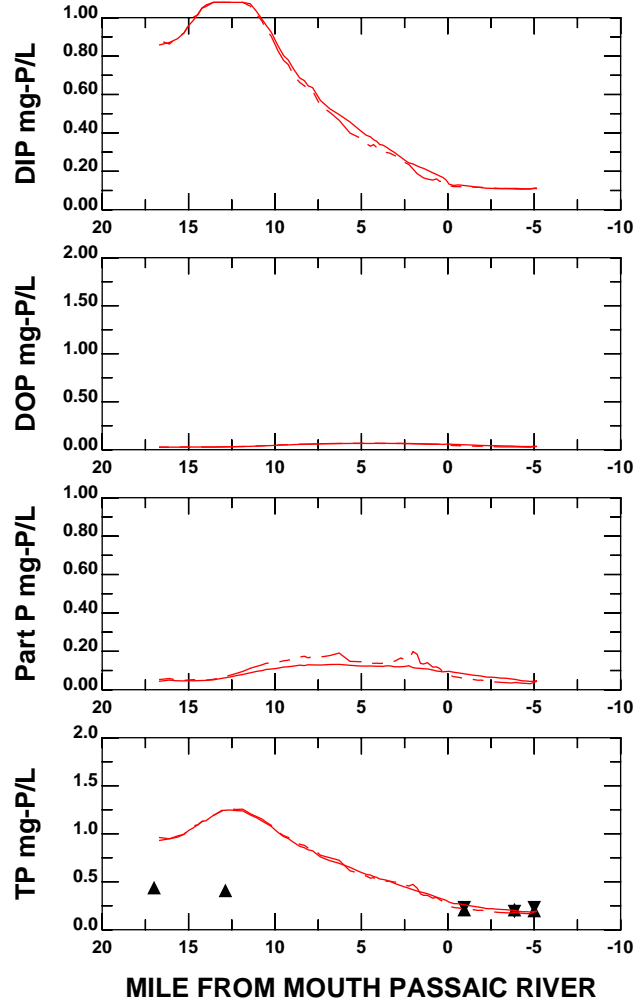
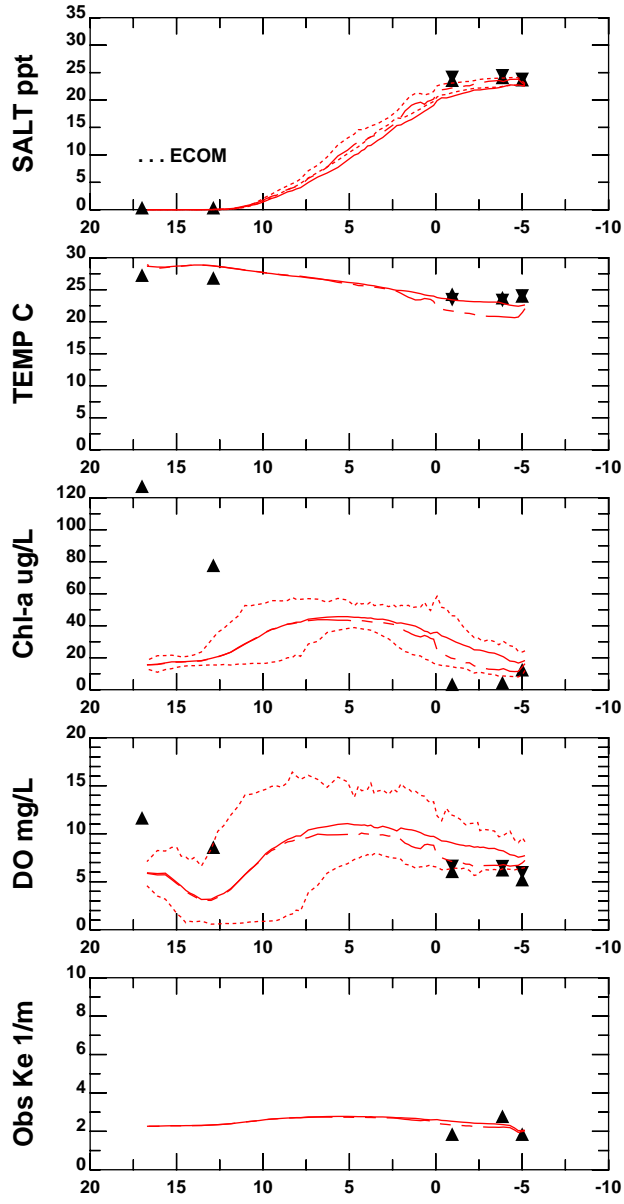
DATA  
NJHDG Jul 08, 2010

MODEL

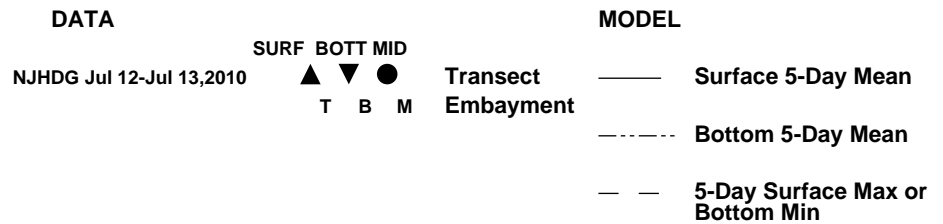
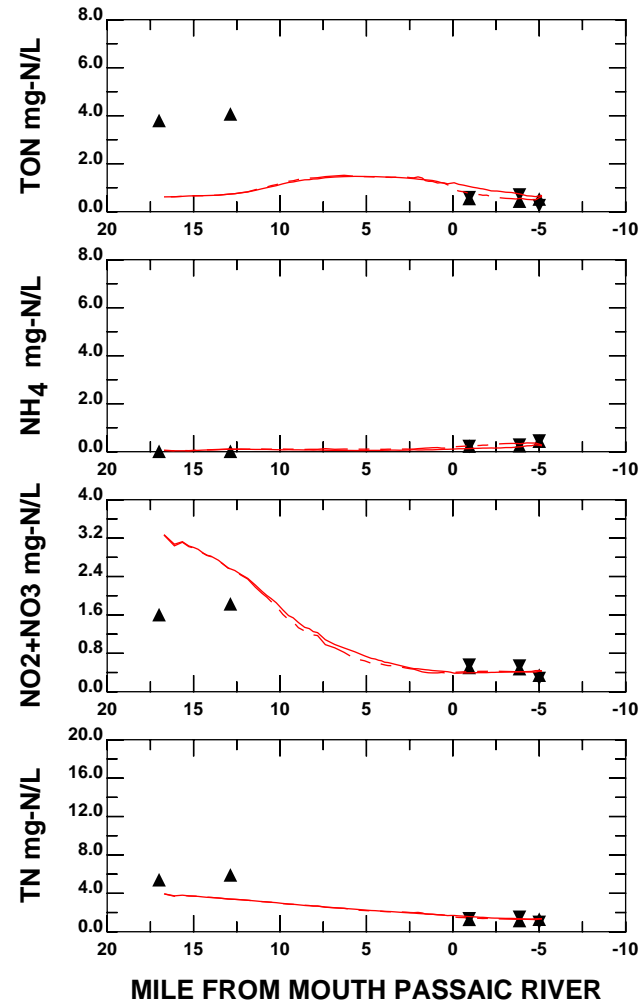
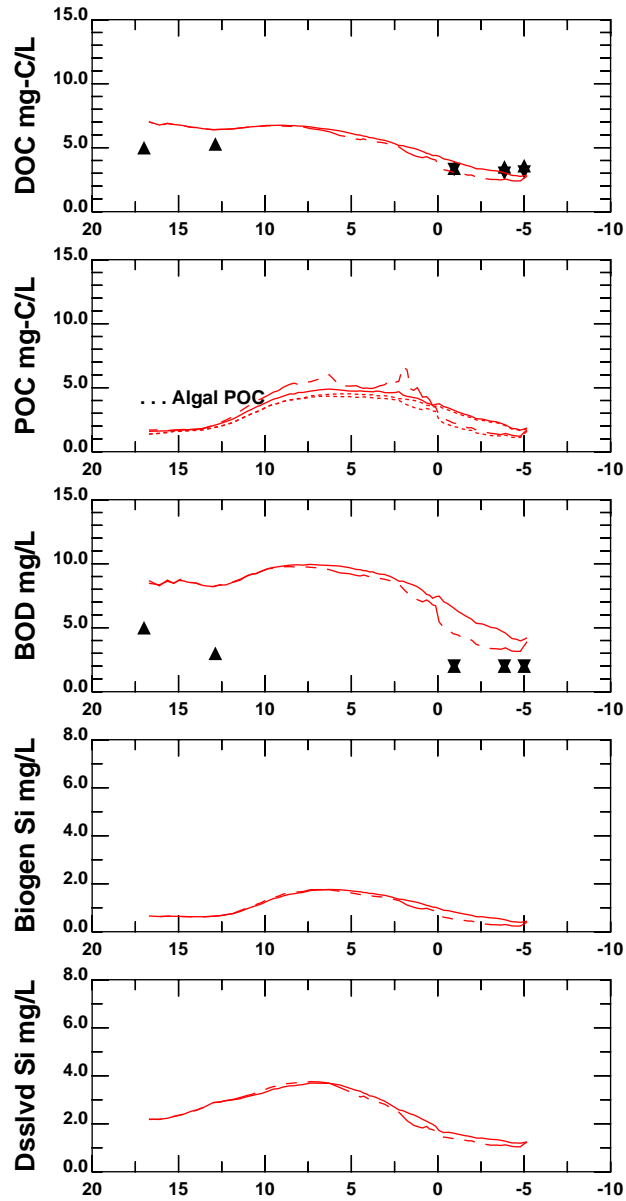
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

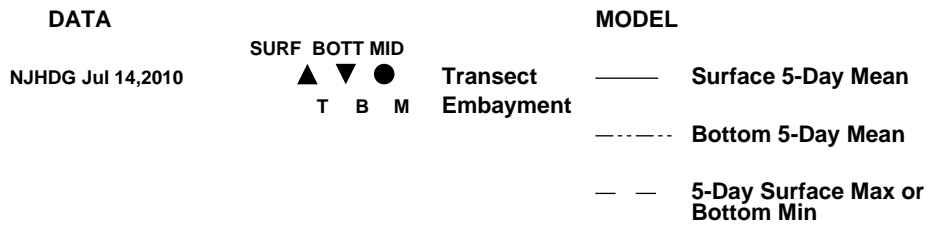
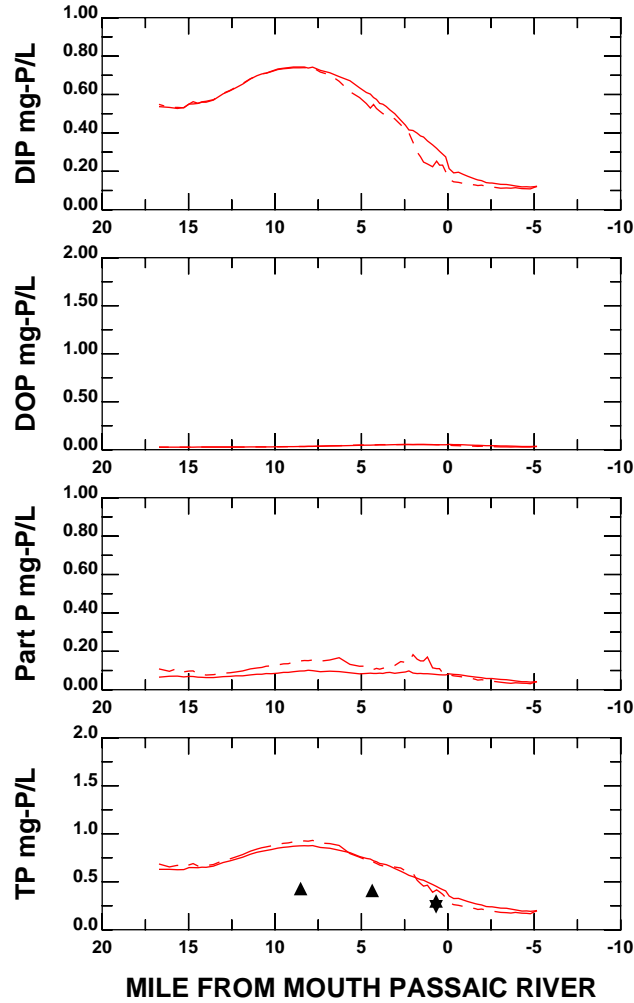
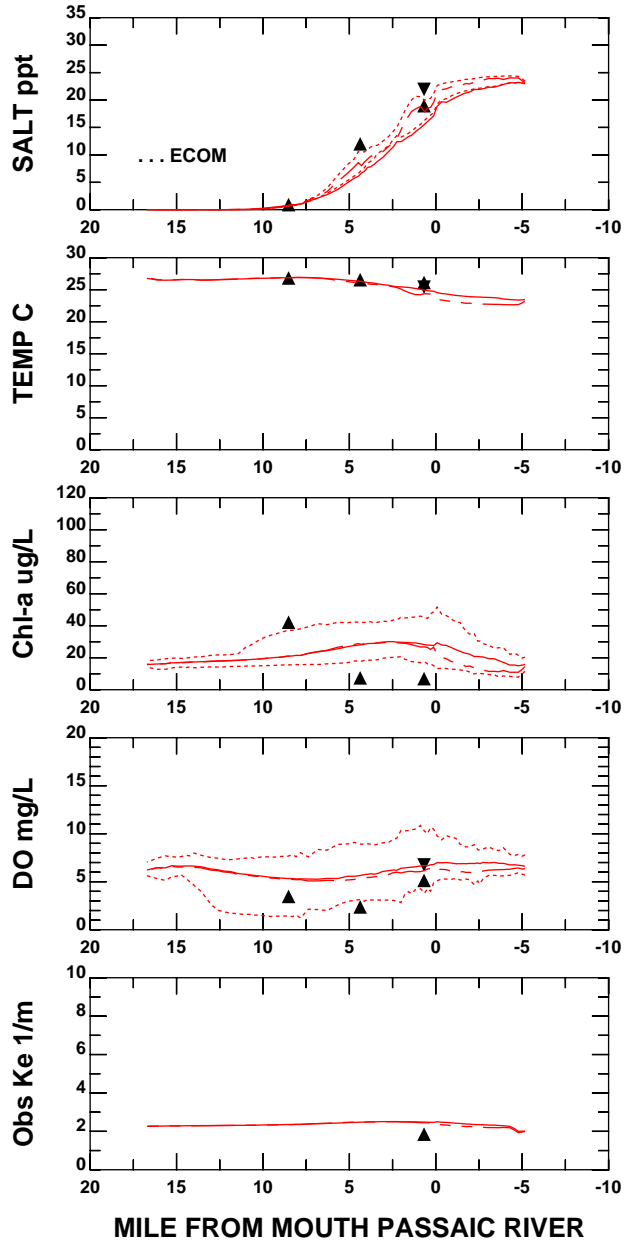
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

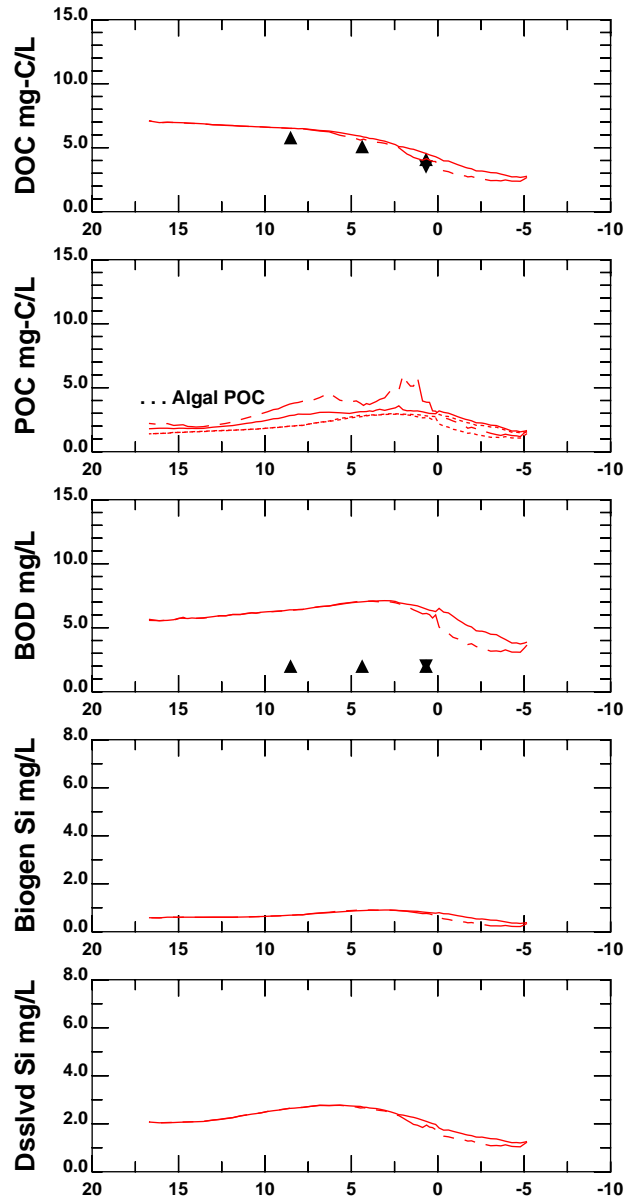


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

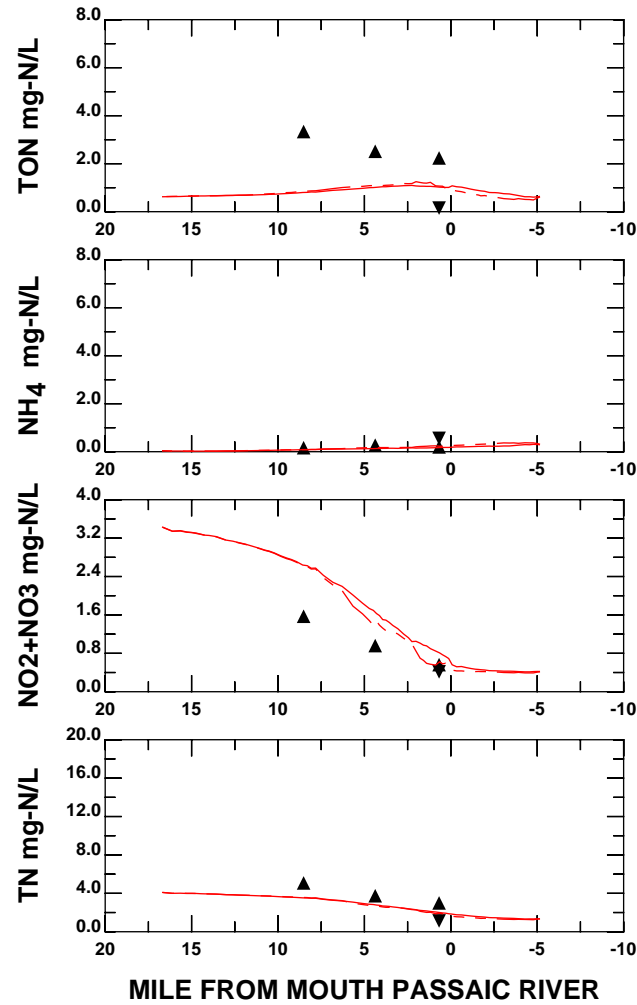




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Jul 14, 2010

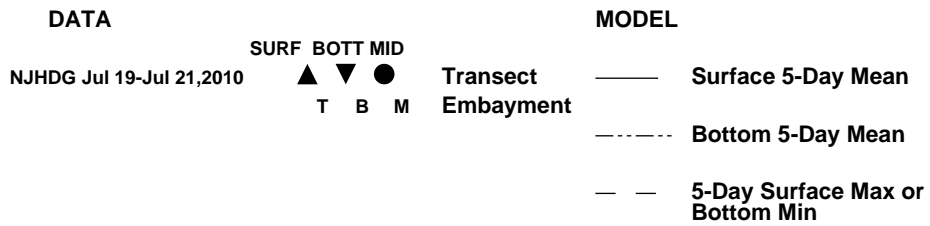
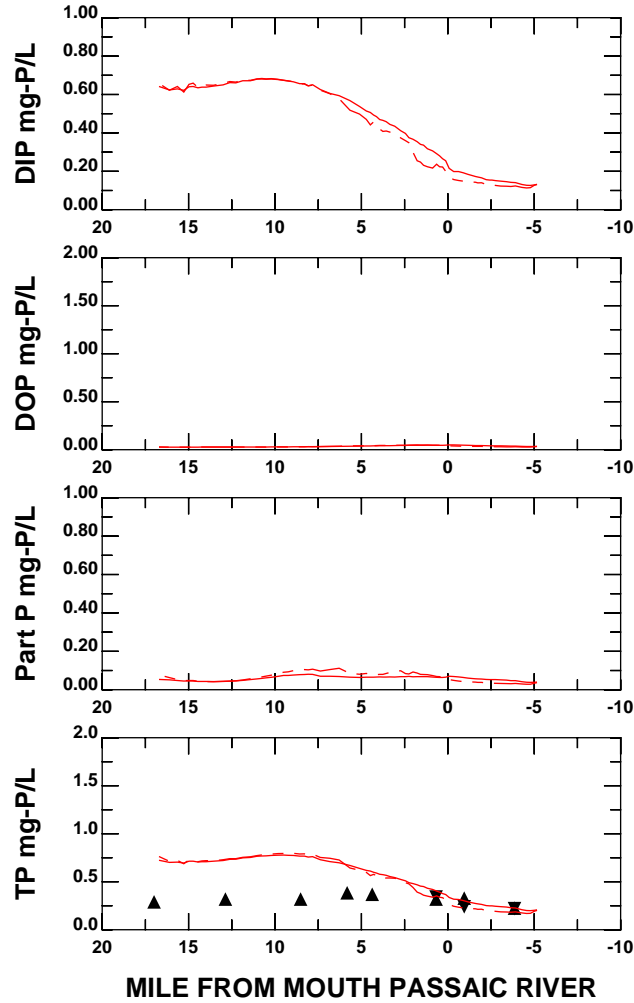
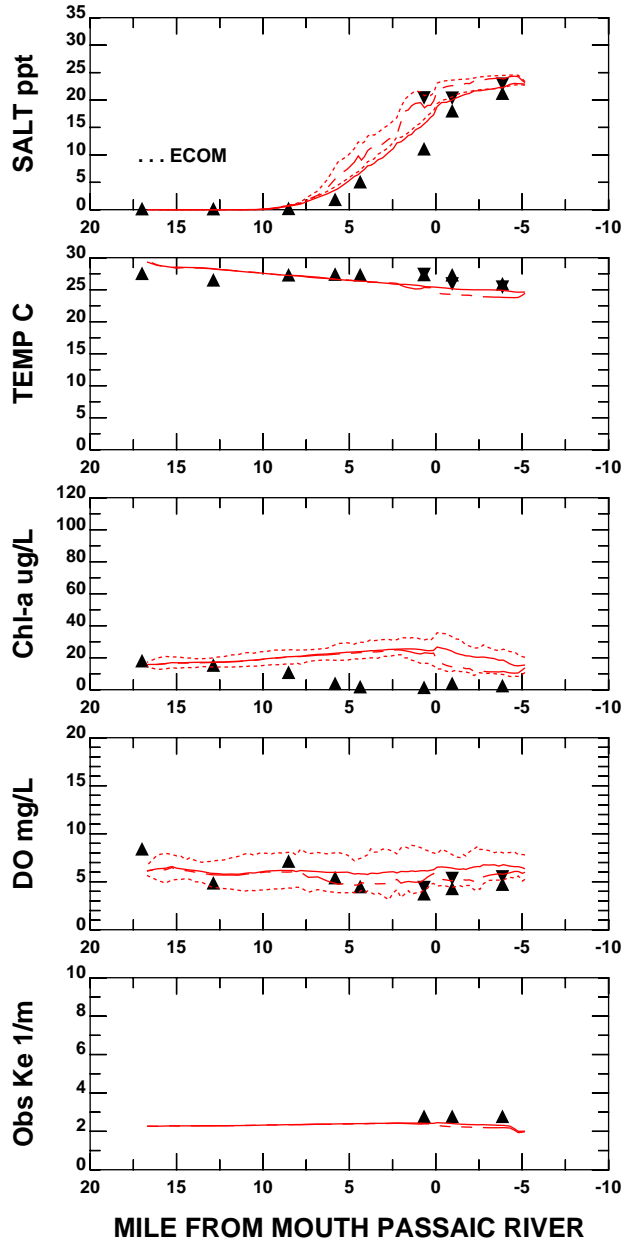
SURF BOTT MID

▲ ▼ ●  
T B M

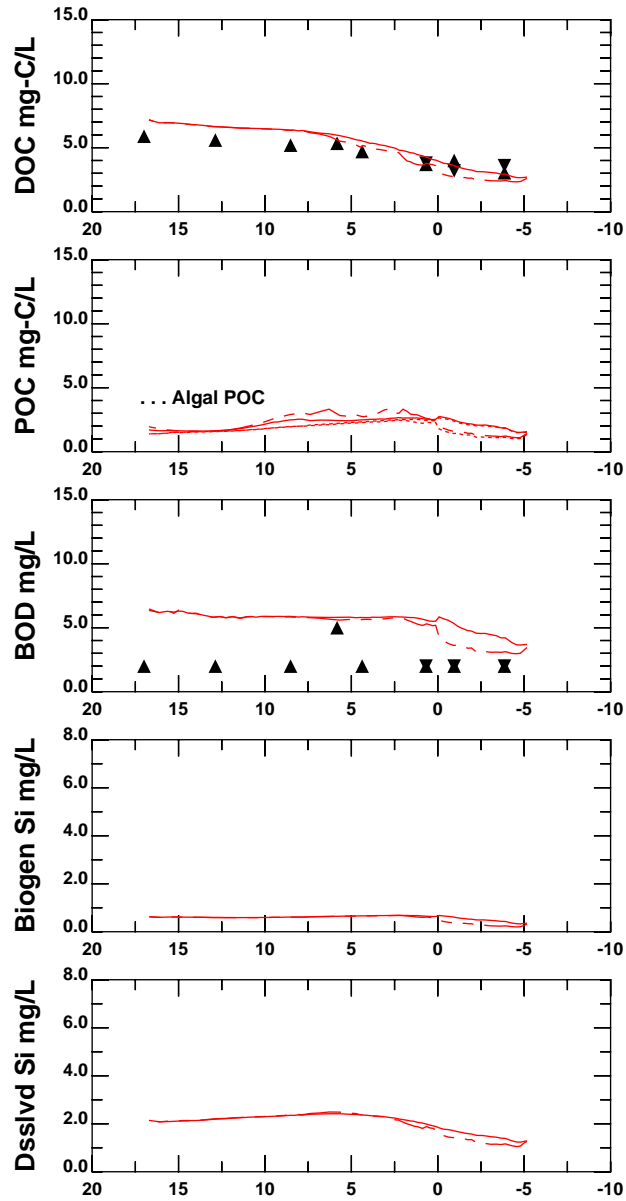
Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



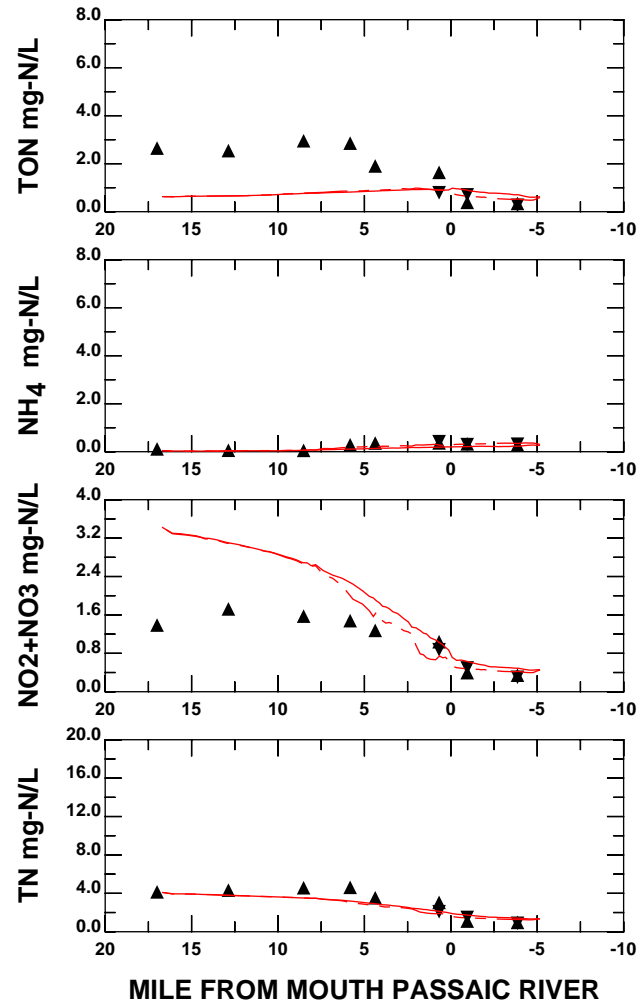
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



DATA

NJHDG Jul 19-Jul 21, 2010

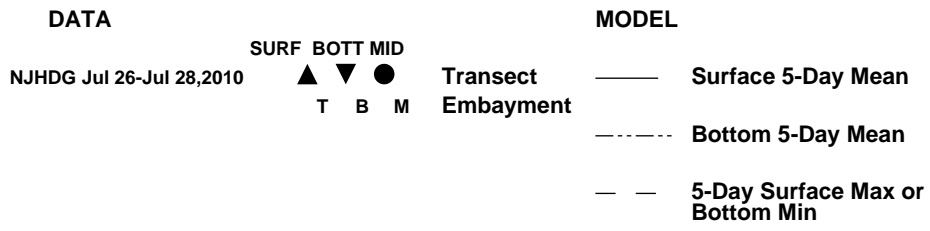
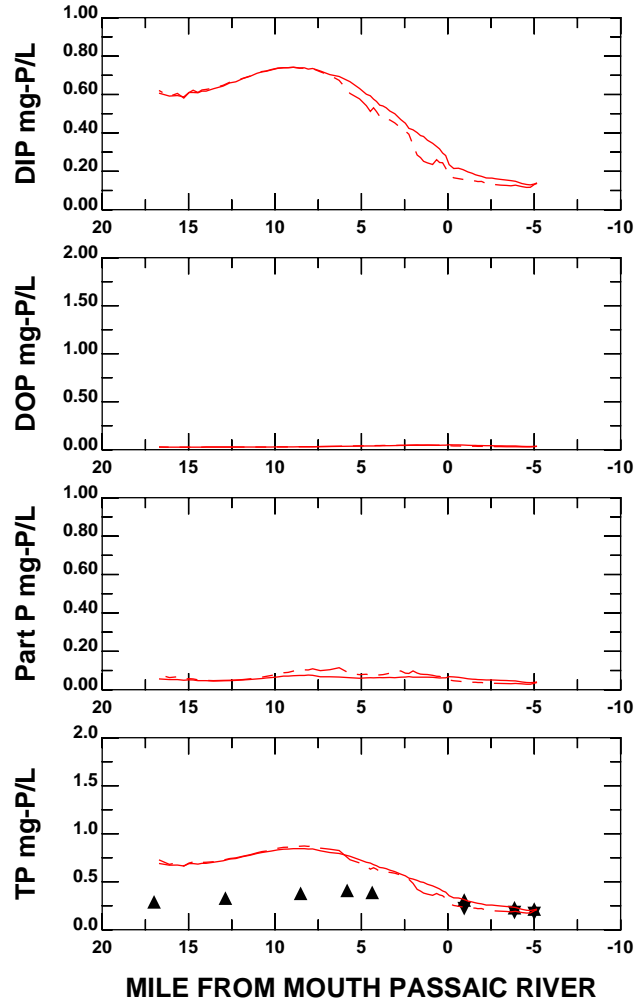
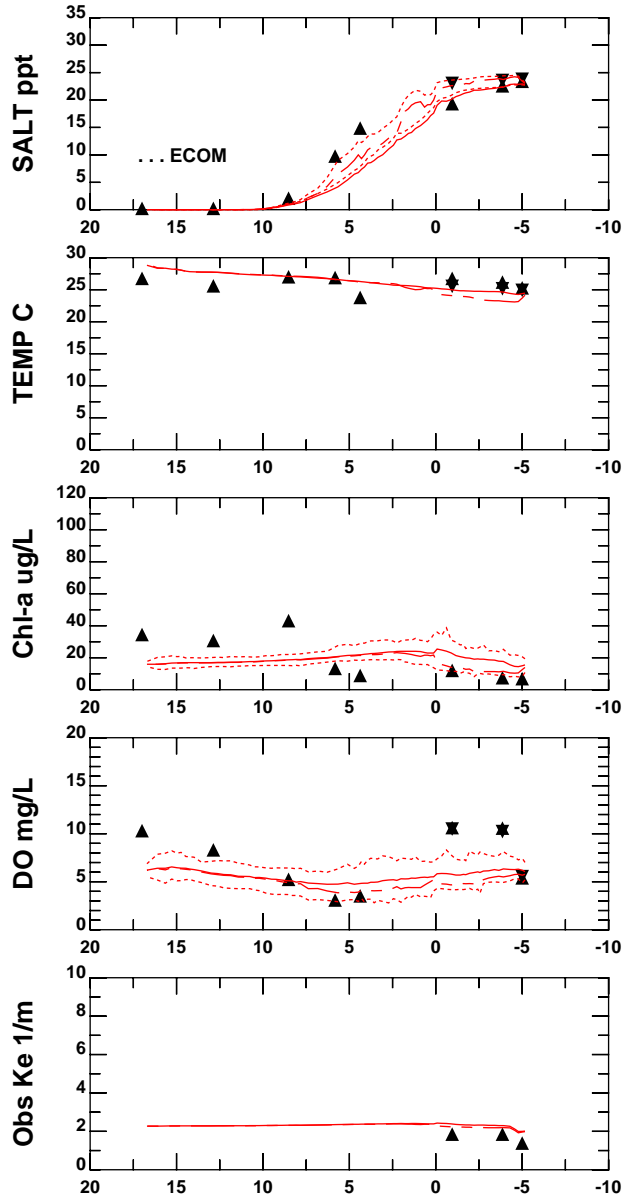
SURF BOTT MID

▲ ▼ ●  
T B M

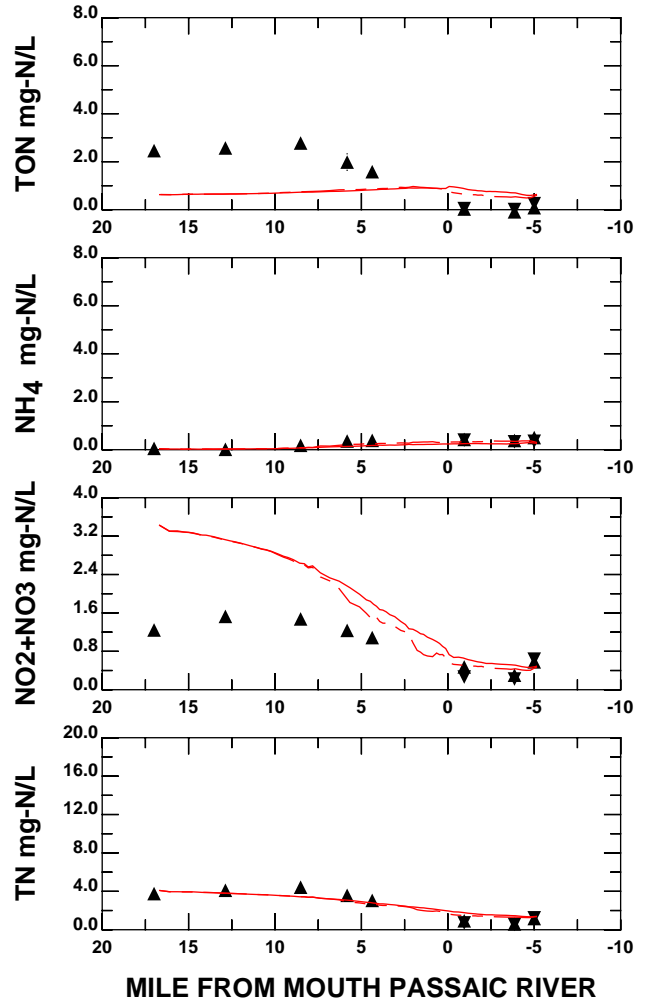
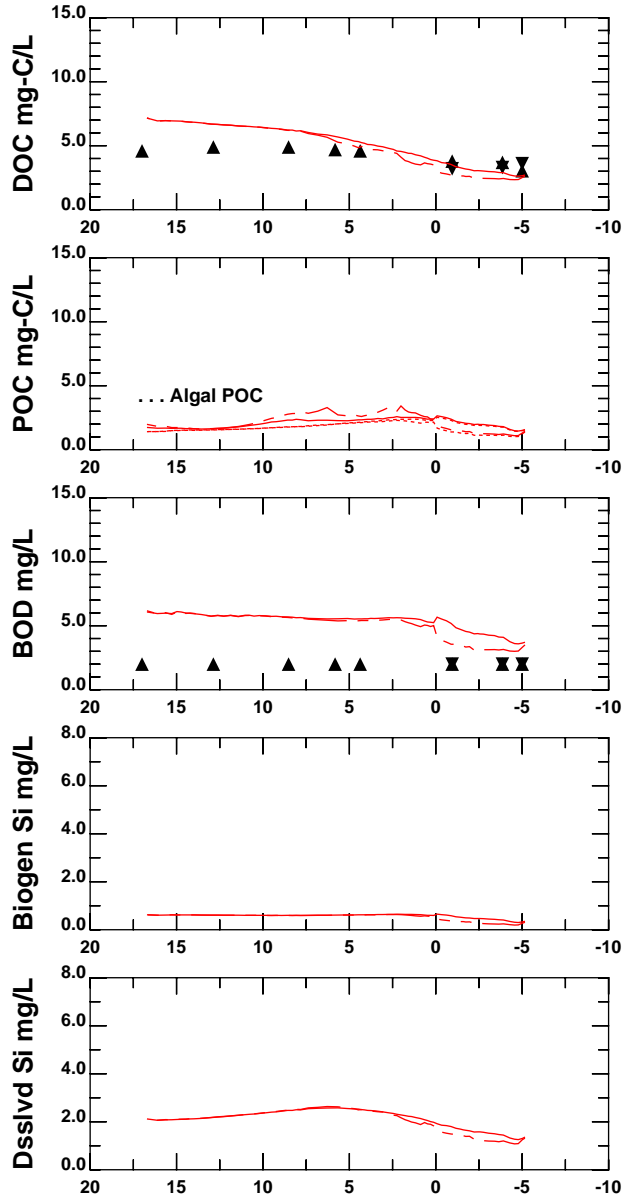
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



DATA

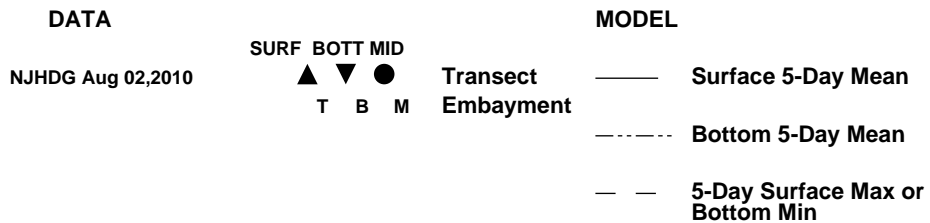
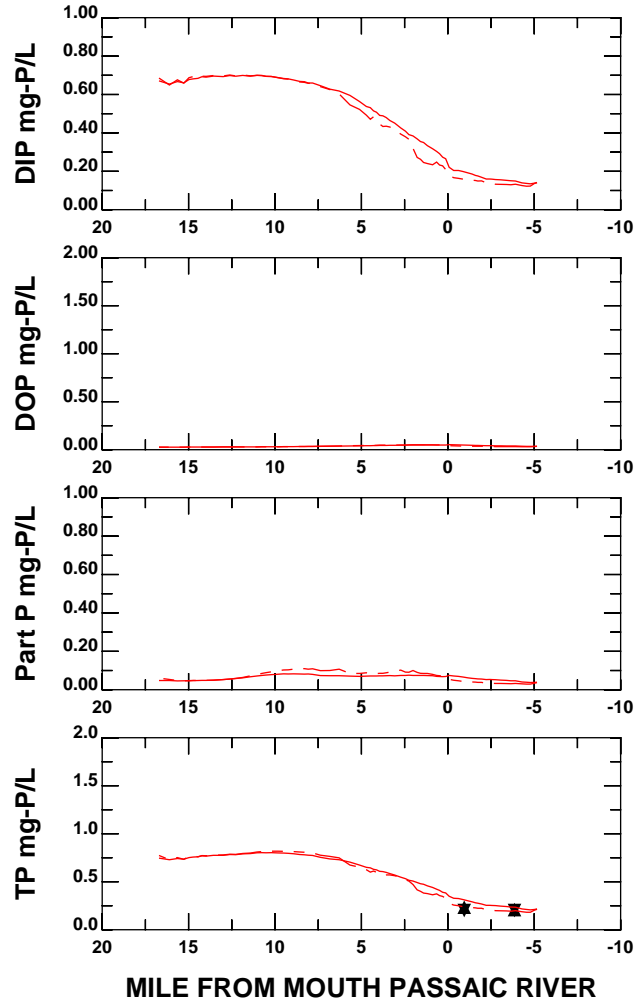
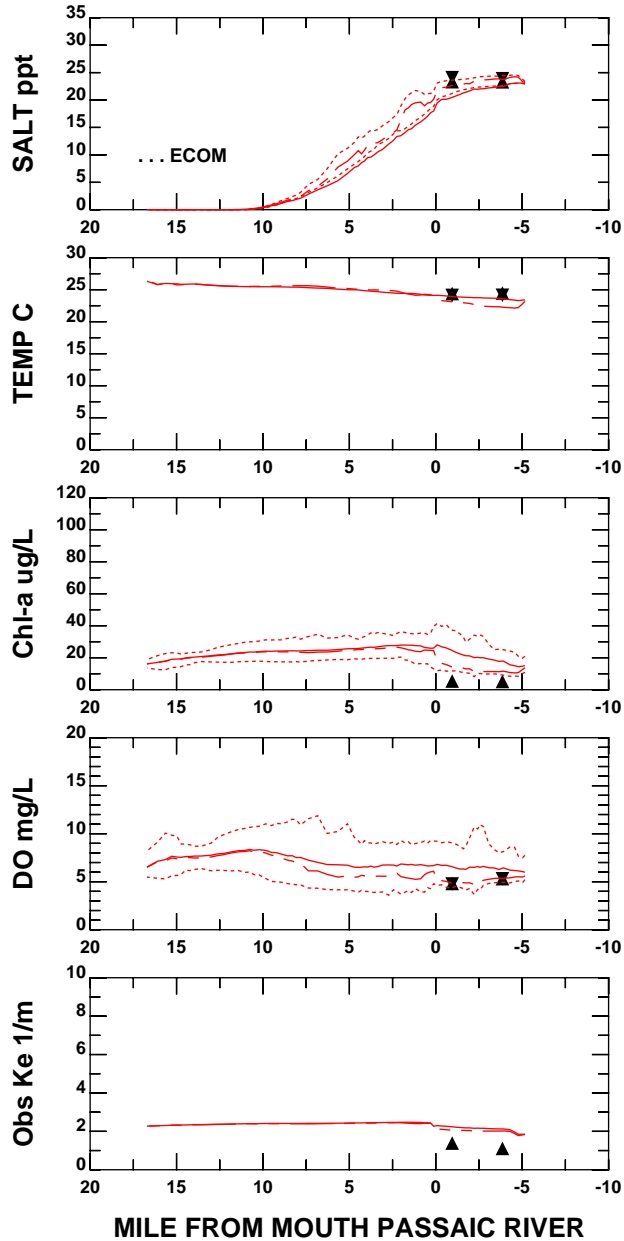
NJHDG Jul 26-Jul 28, 2010

MODEL

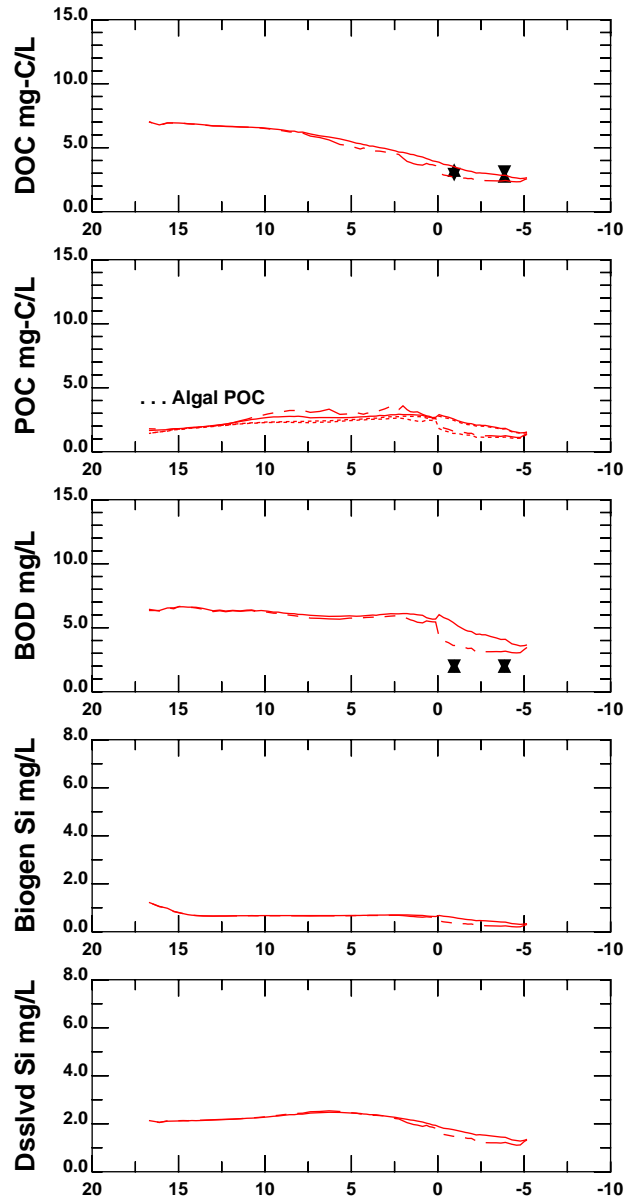
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



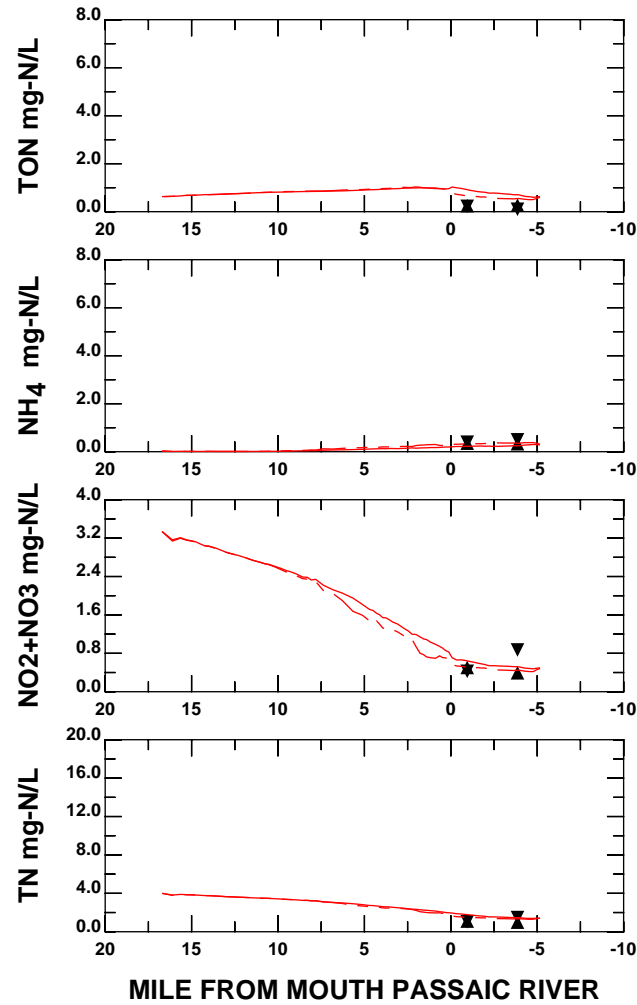
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Aug 02,2010

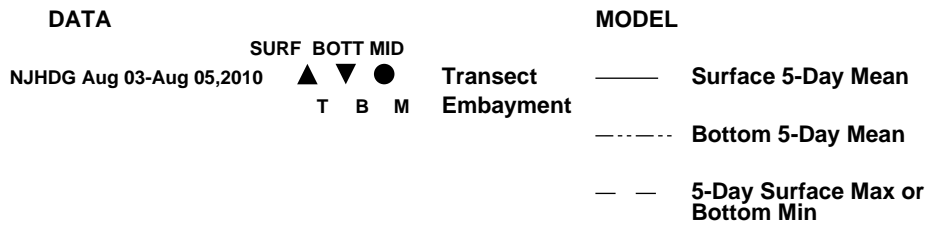
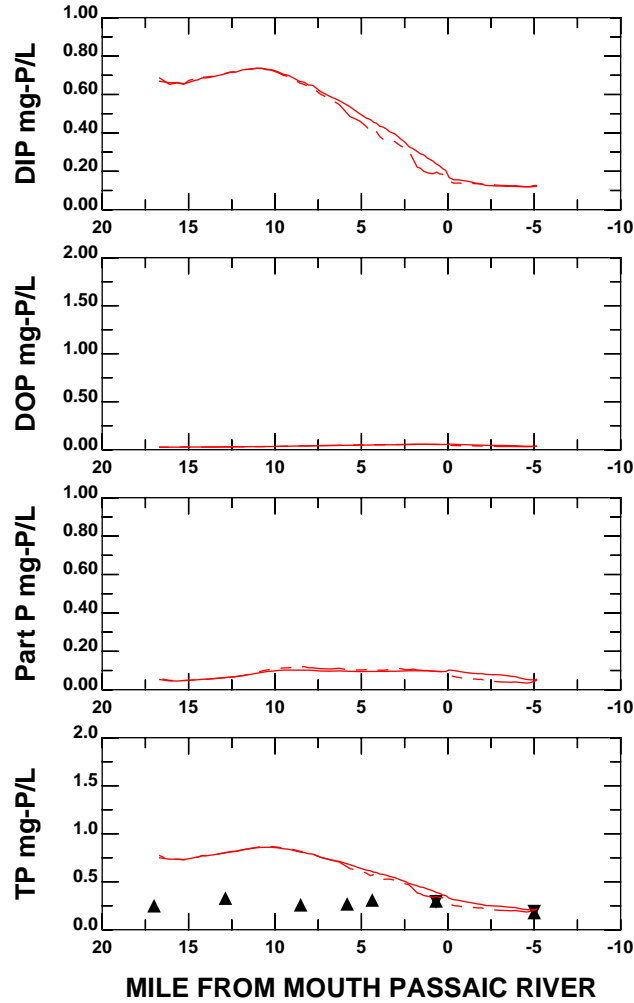
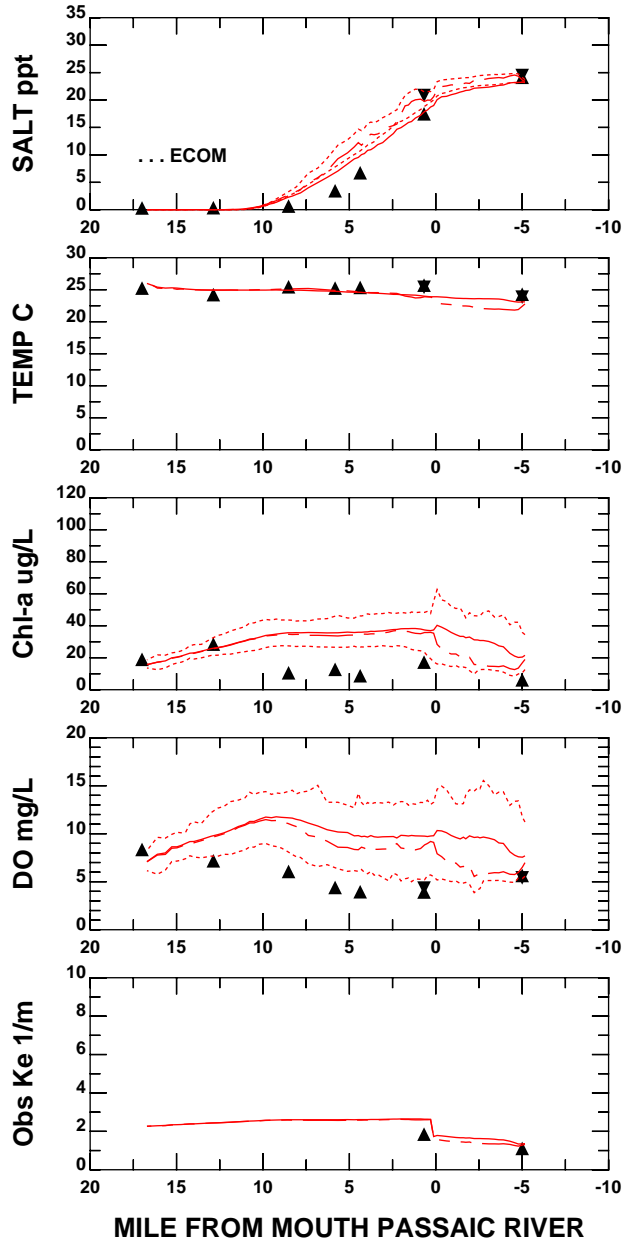
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

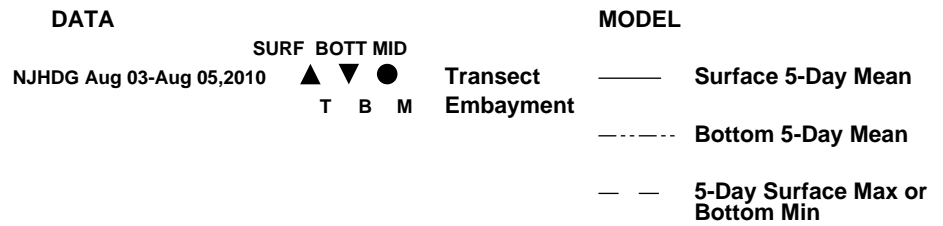
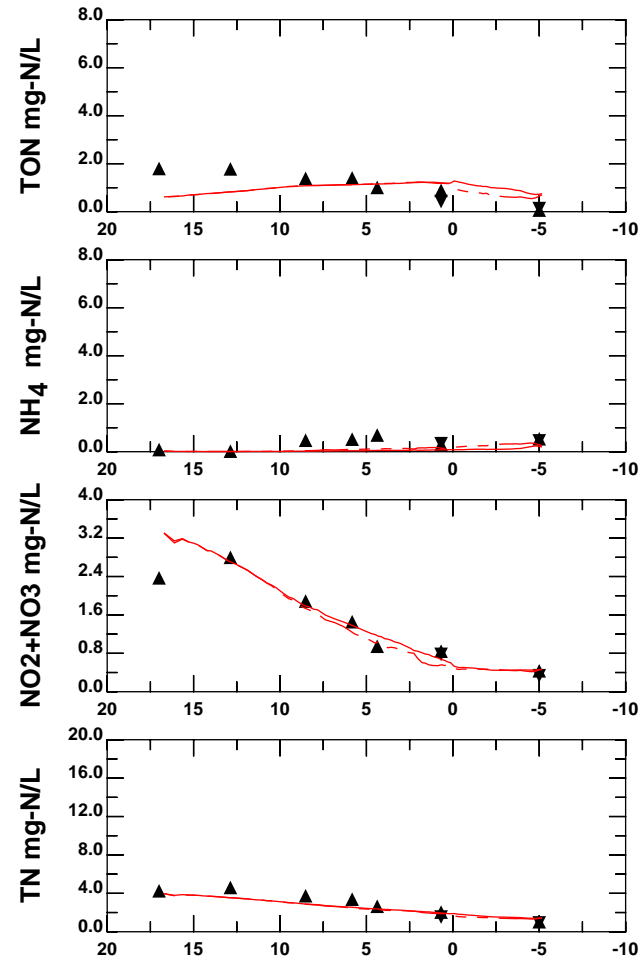
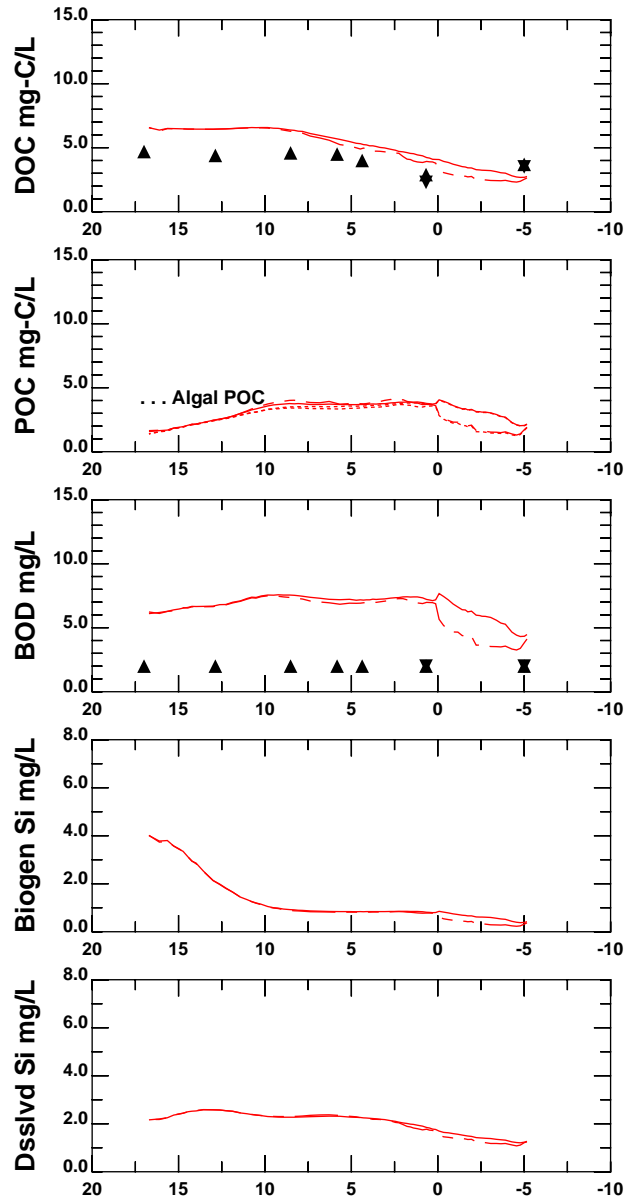
#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - · - 5-Day Surface Max or Bottom Min

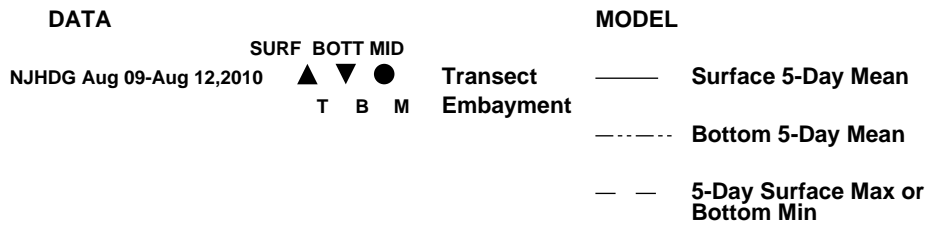
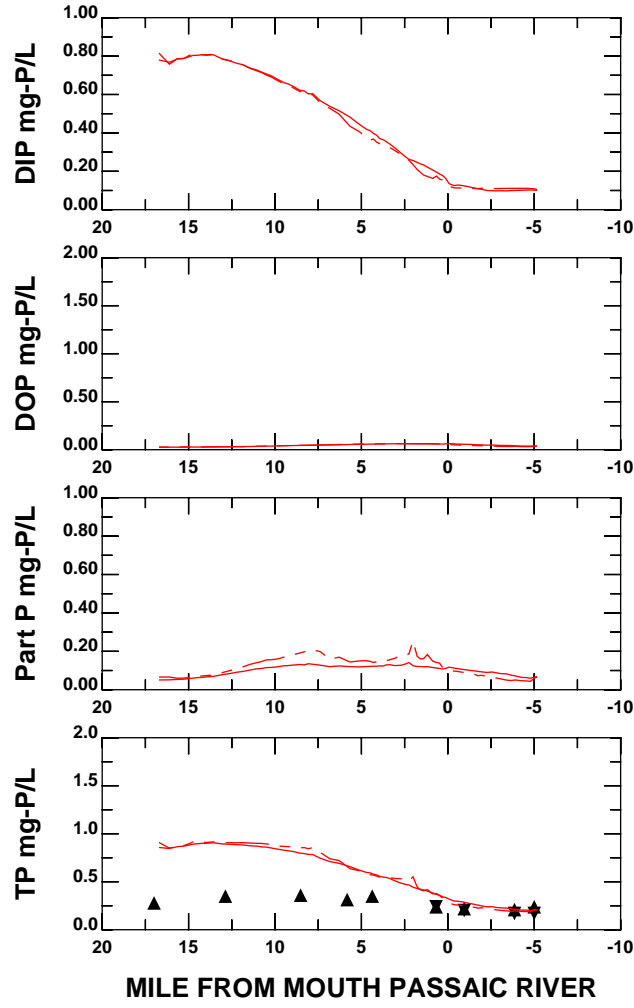
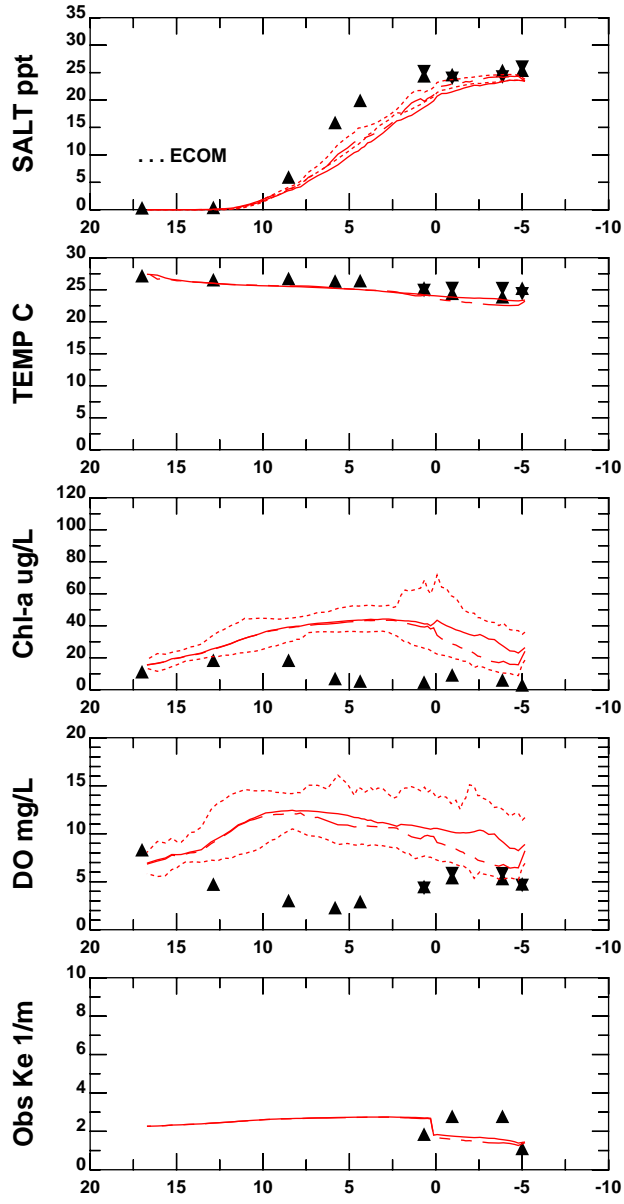


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

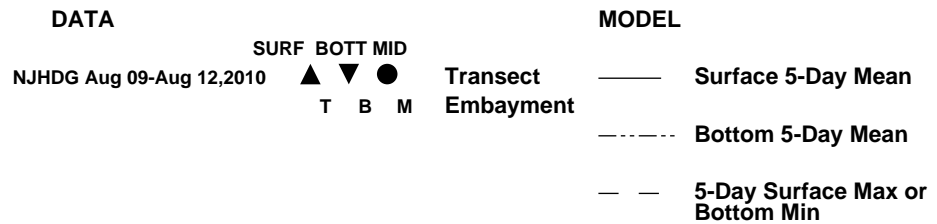
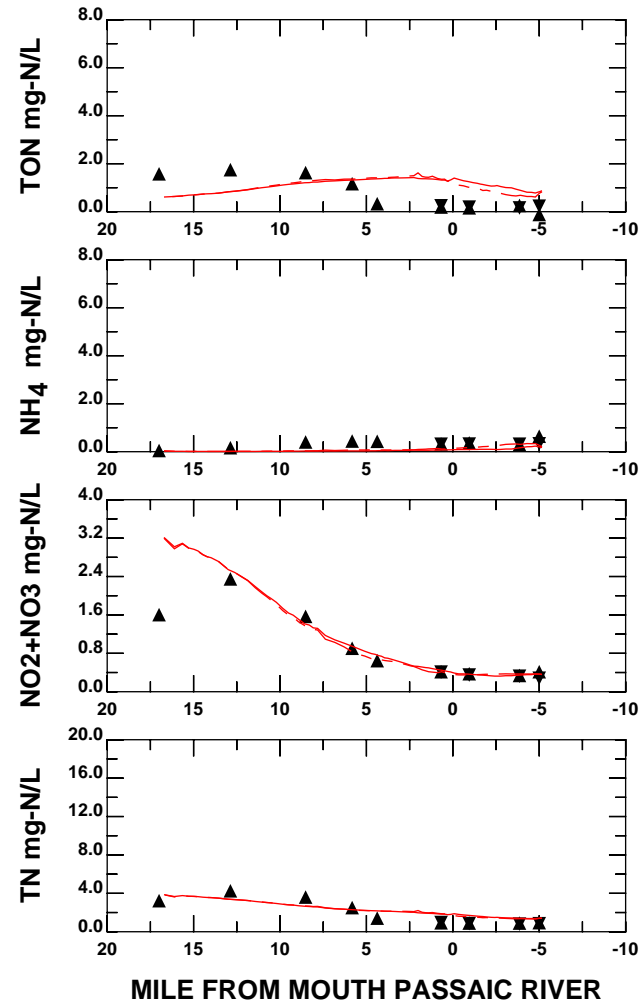
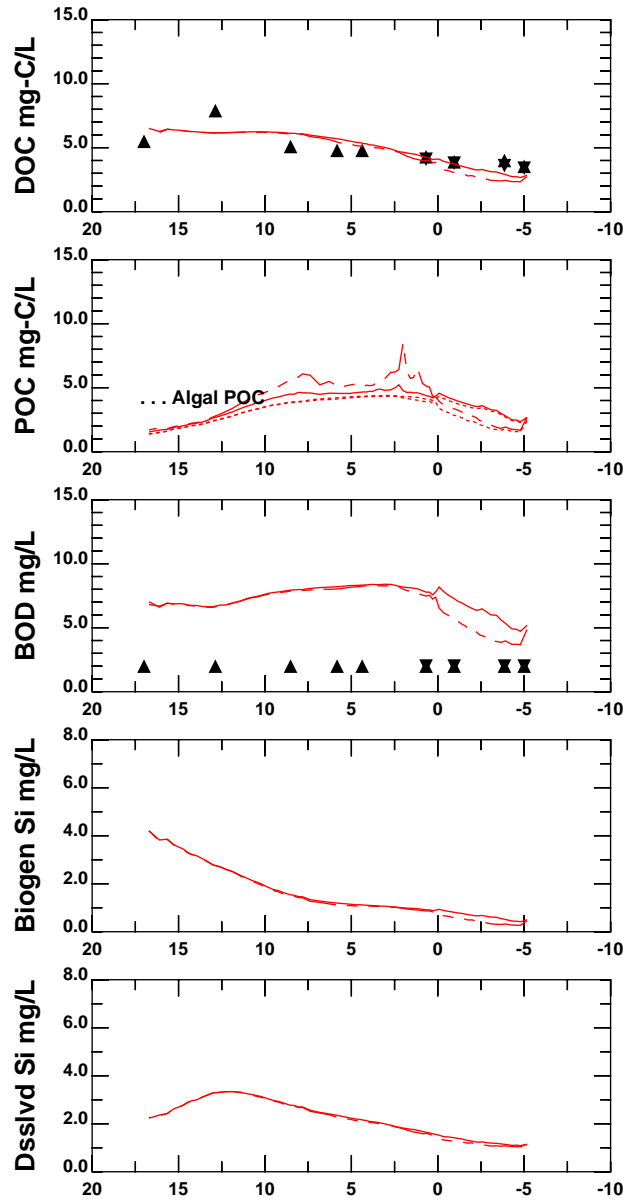




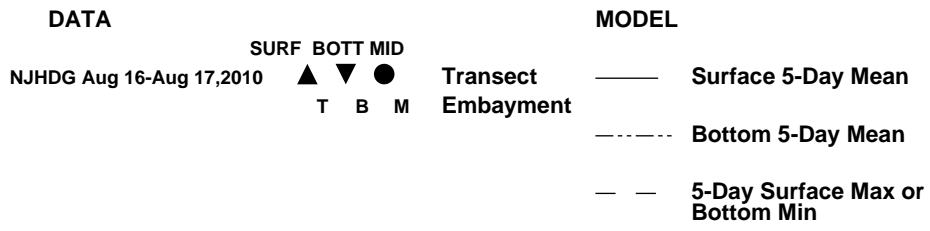
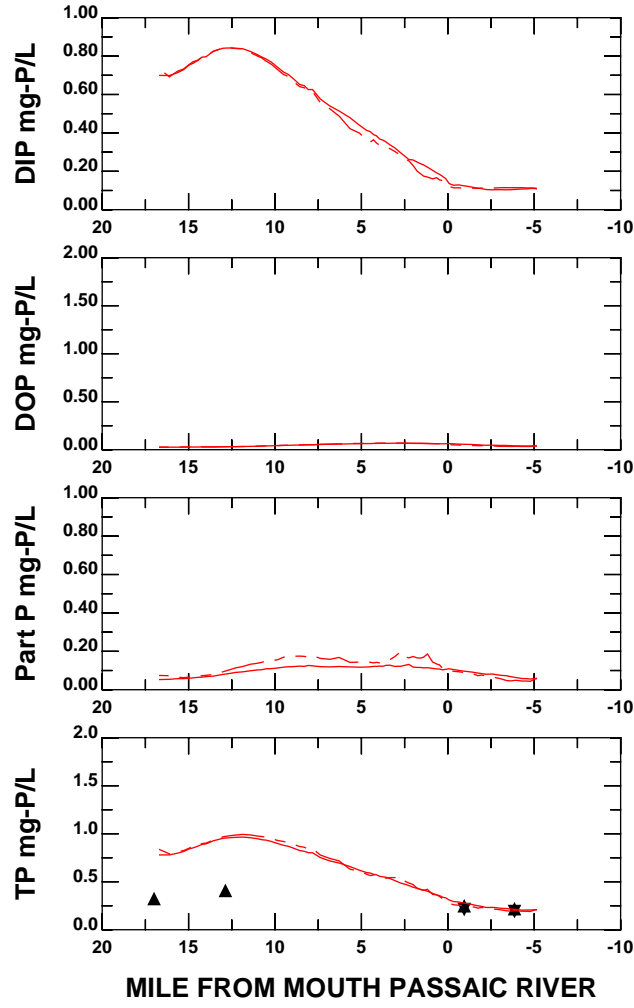
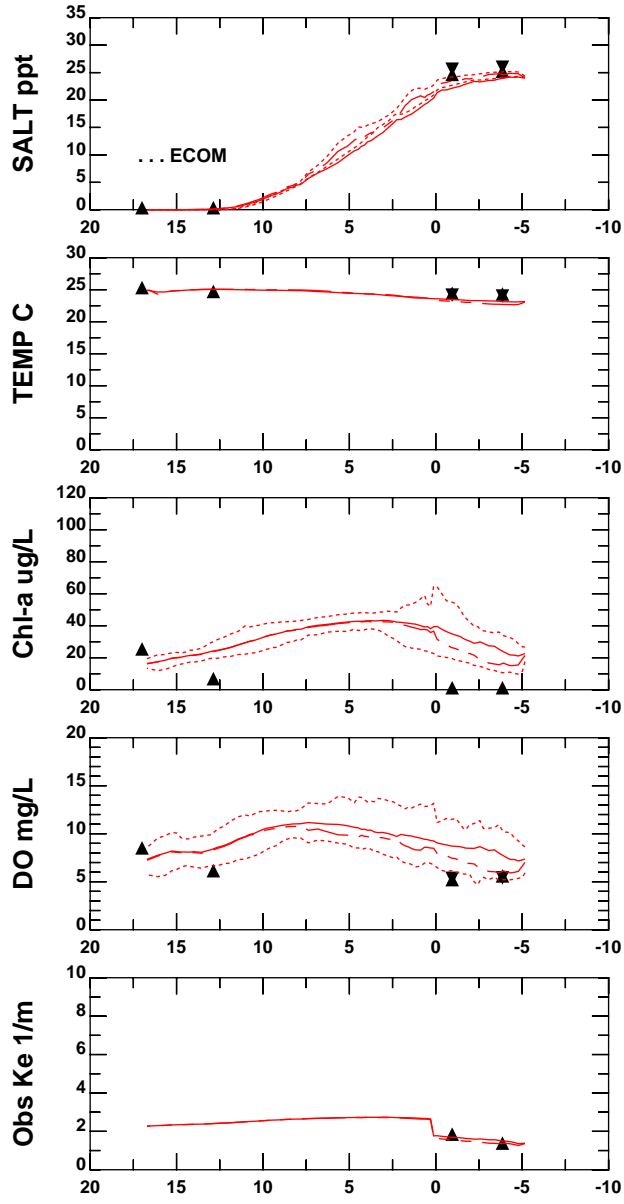
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



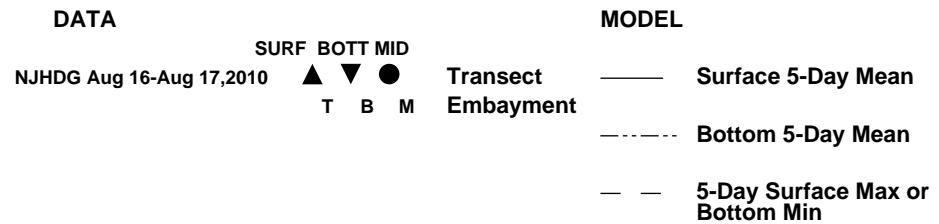
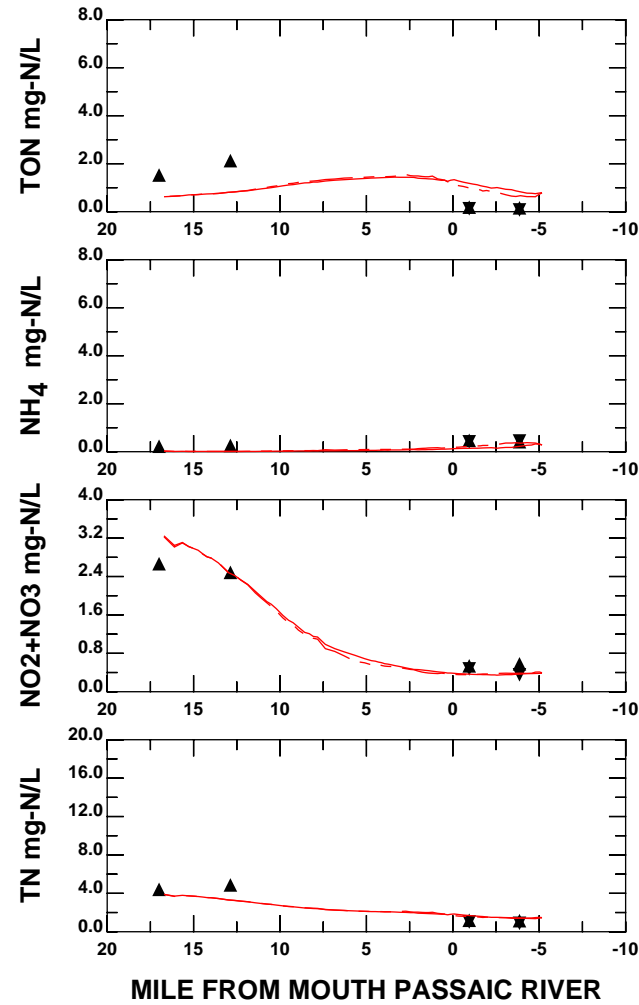
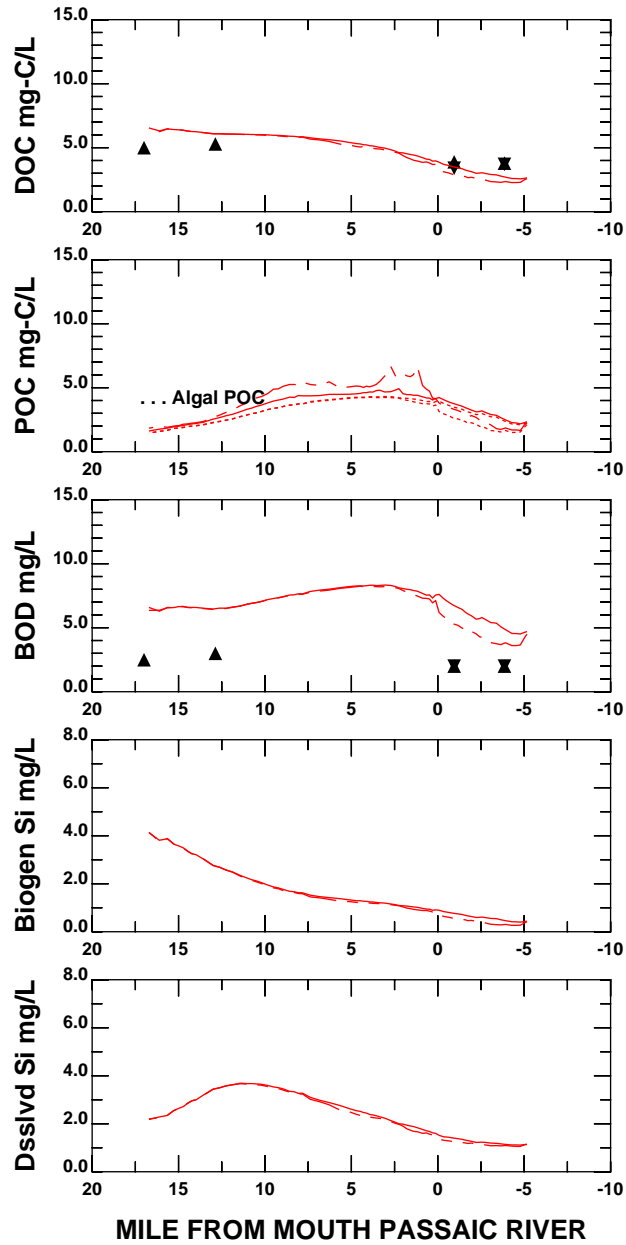
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



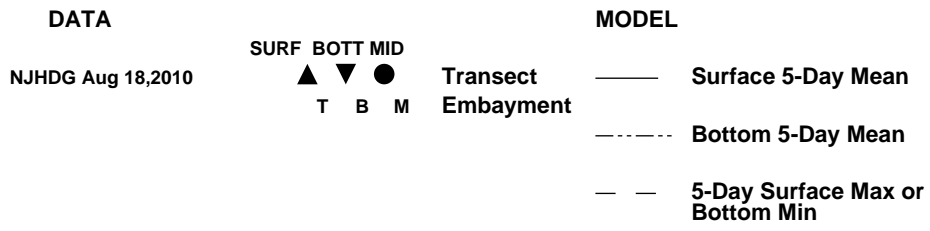
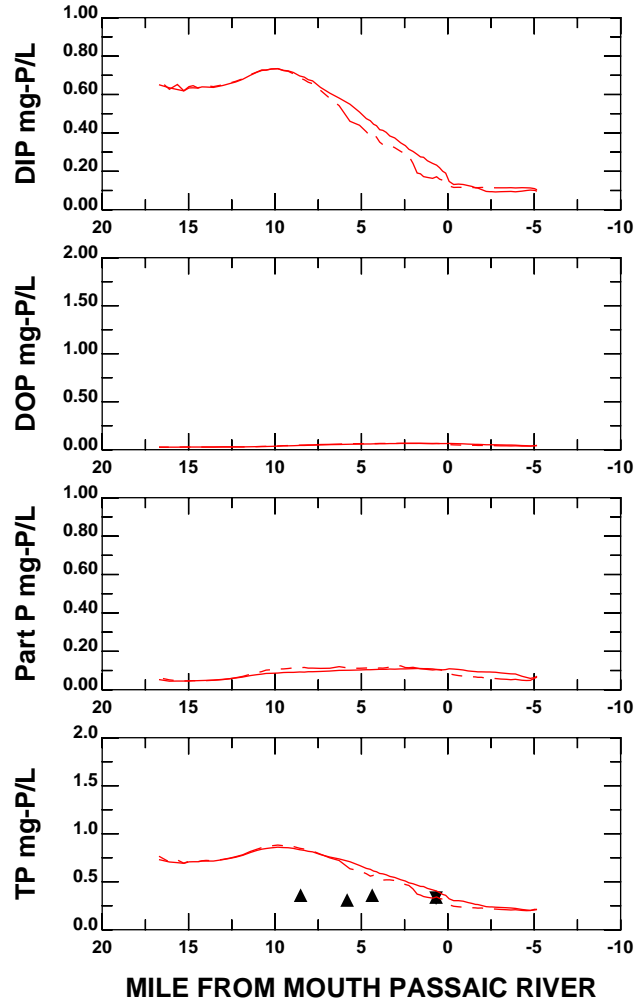
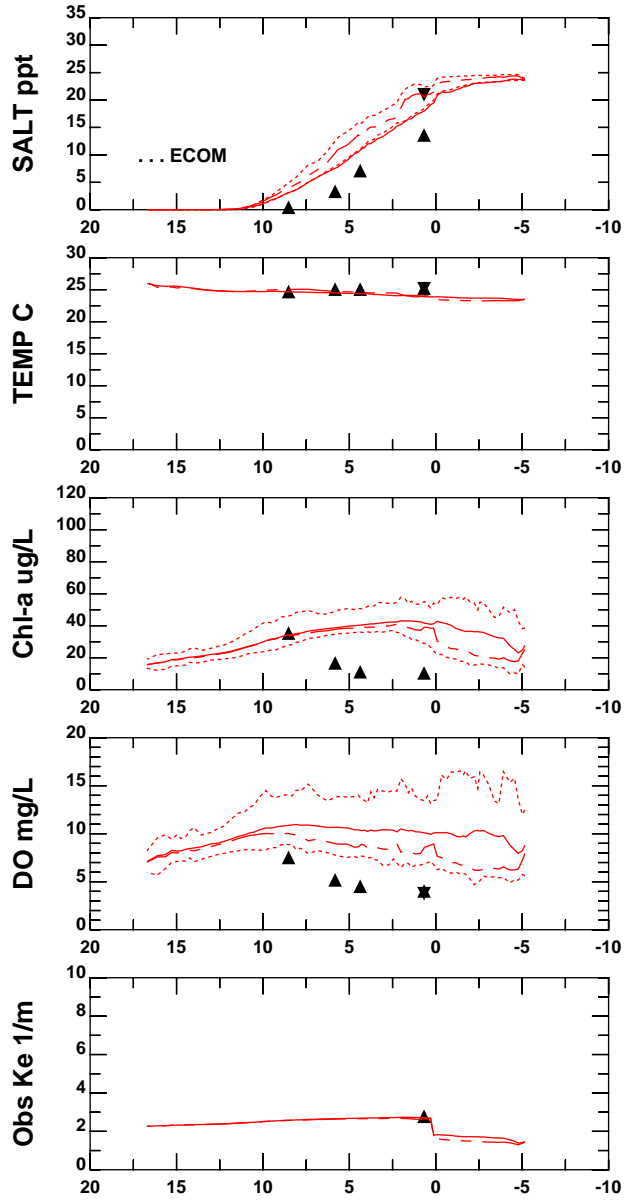
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



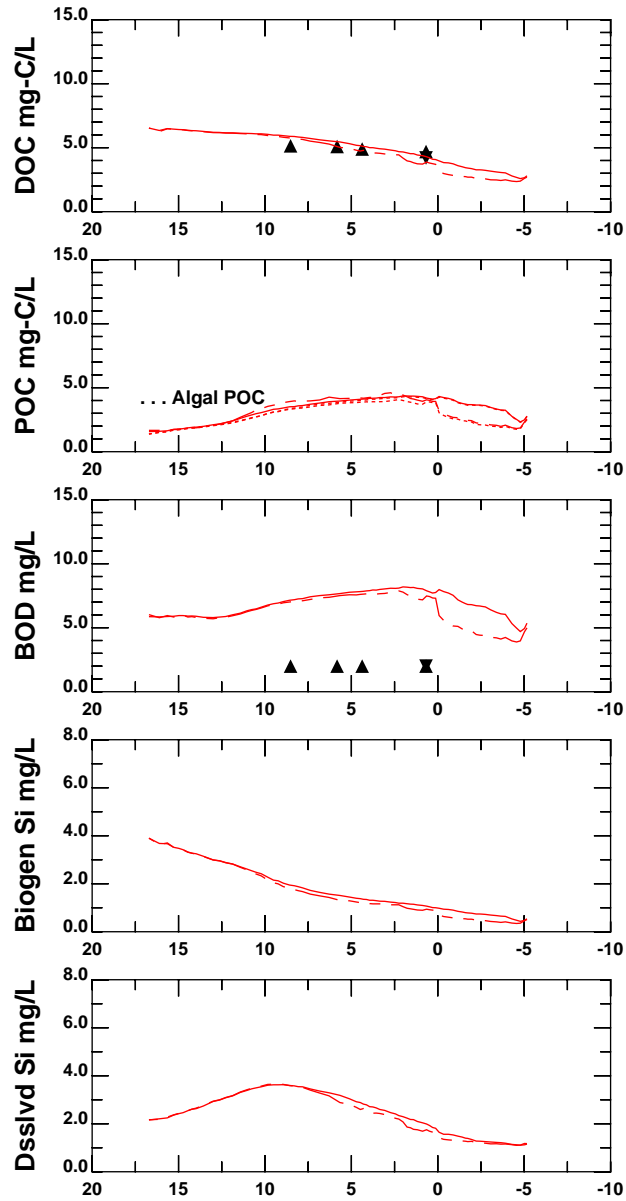
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



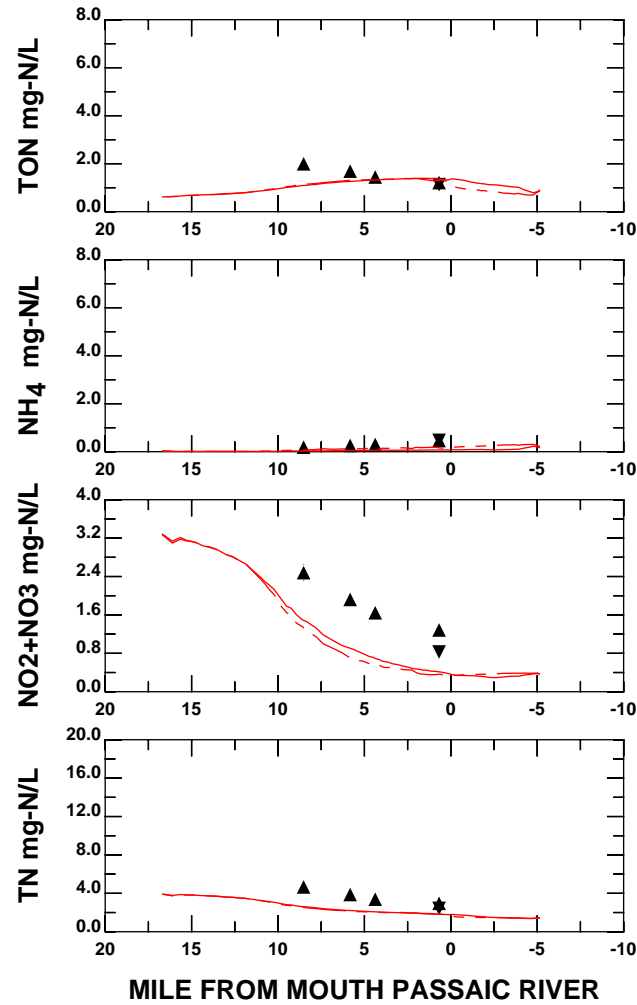
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 0910



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 0910

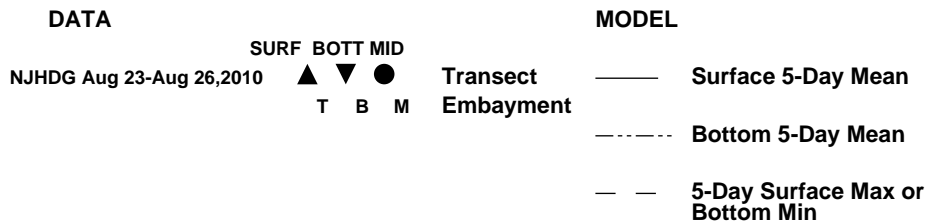
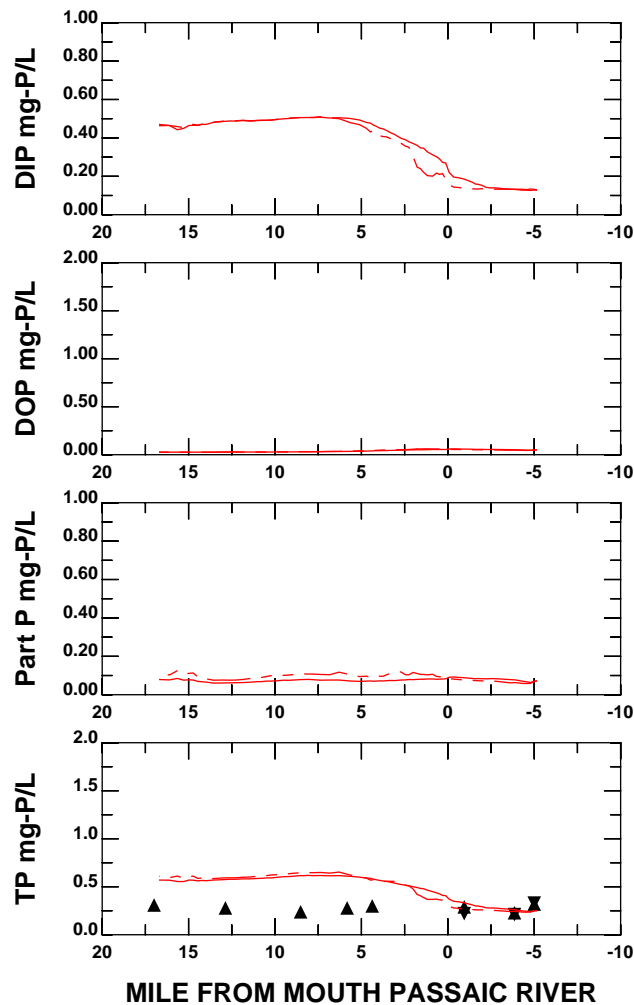
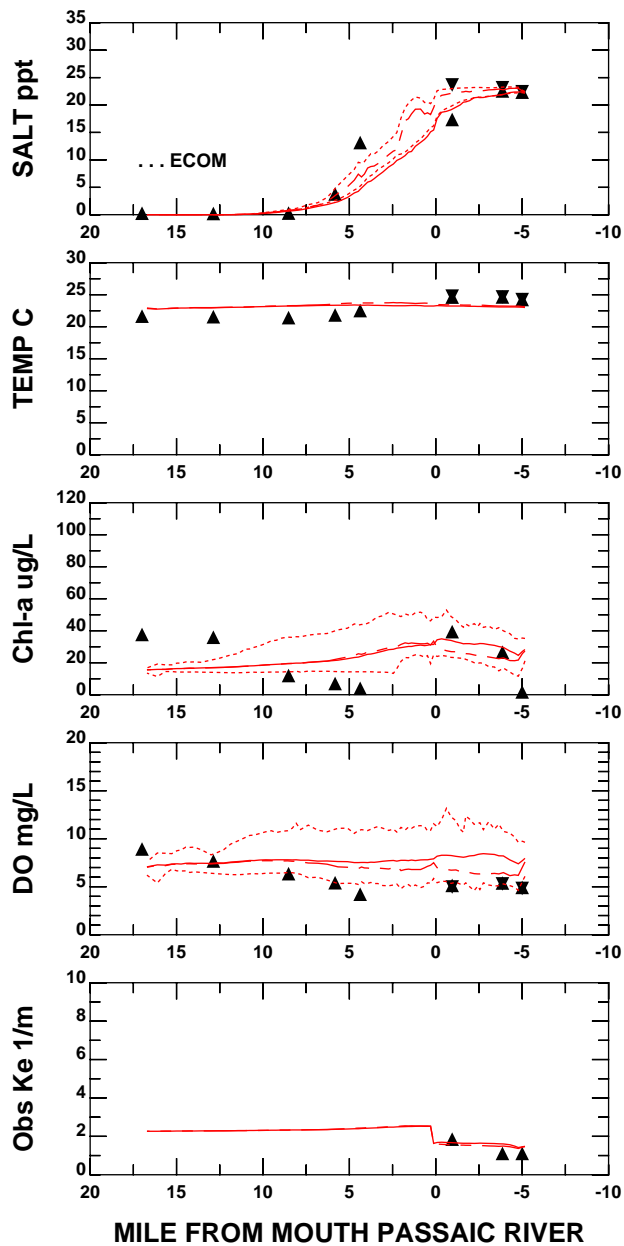


MILE FROM MOUTH PASSAIC RIVER

DATA  
NJHDG Aug 18,2010

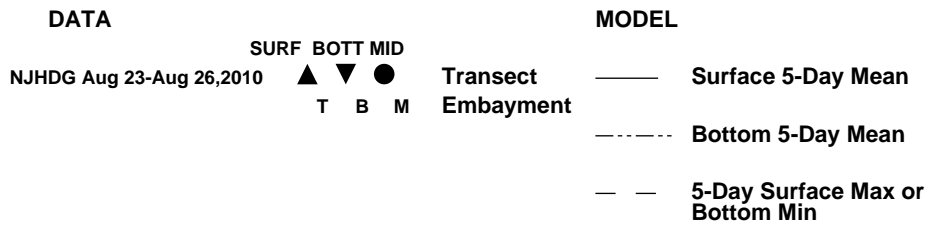
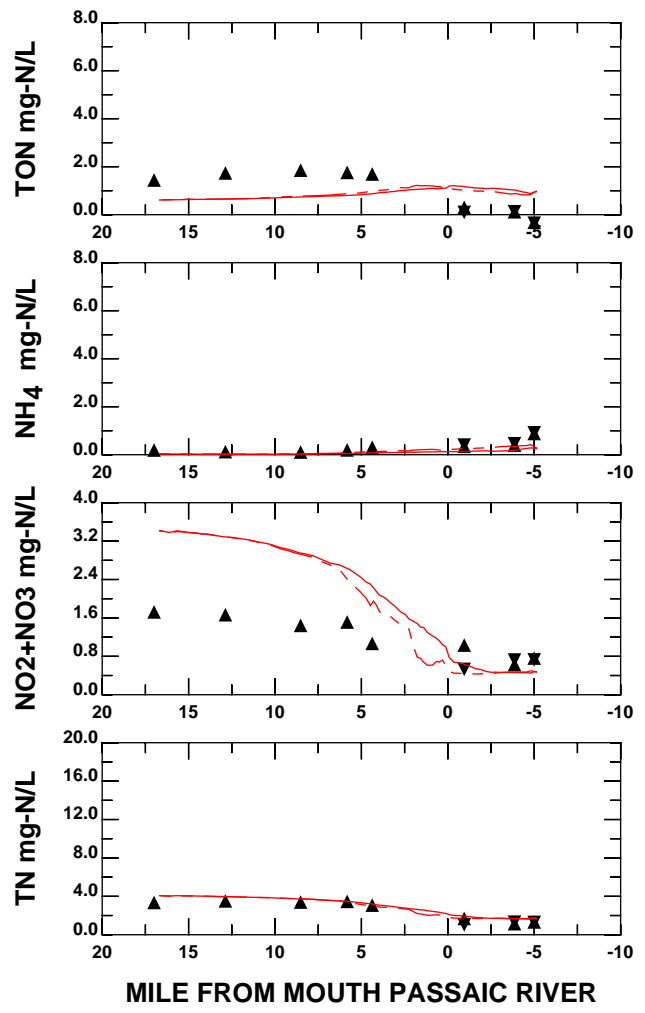
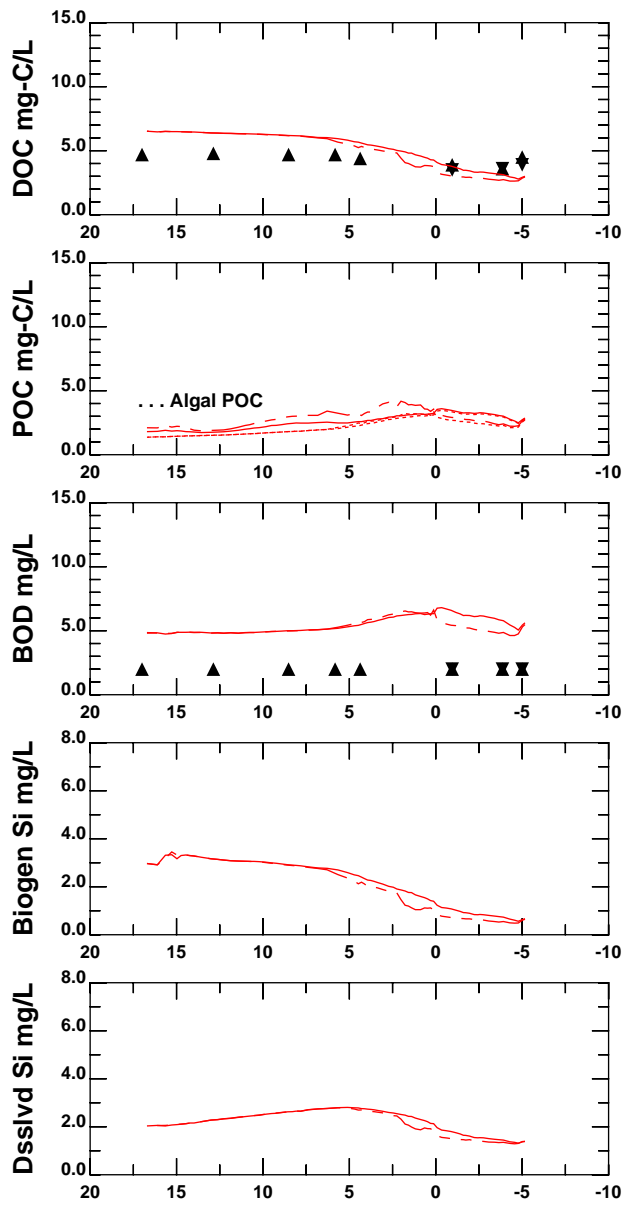
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

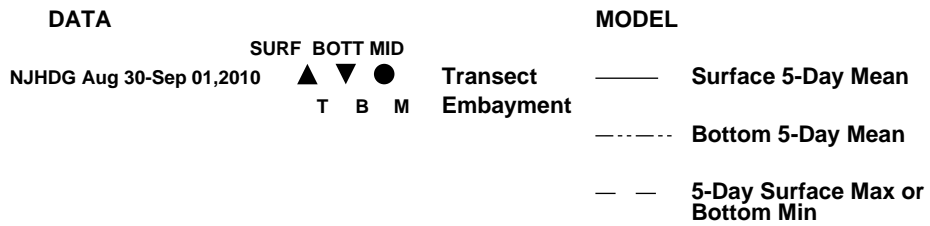
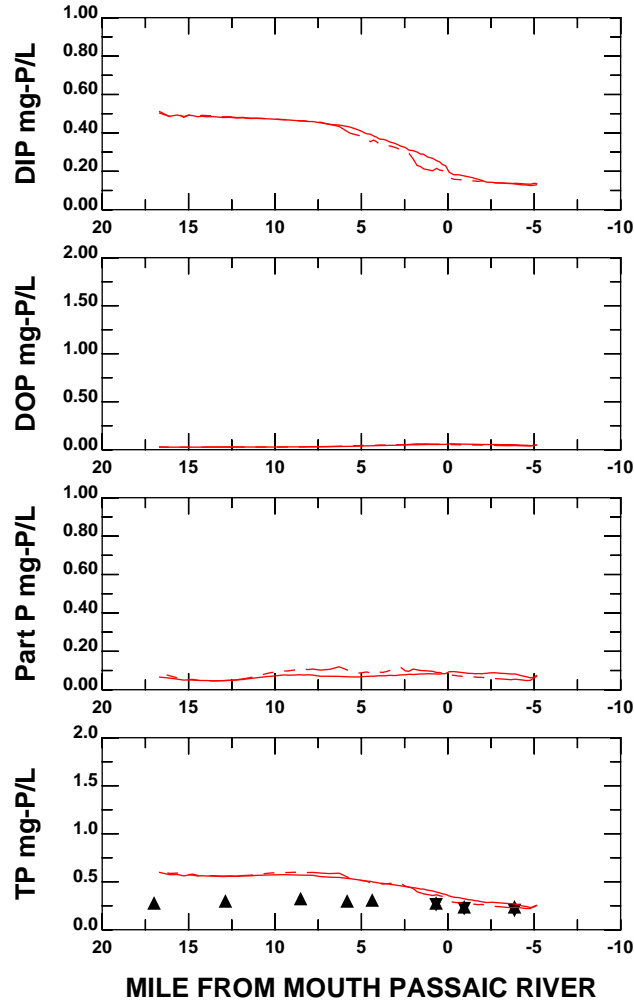
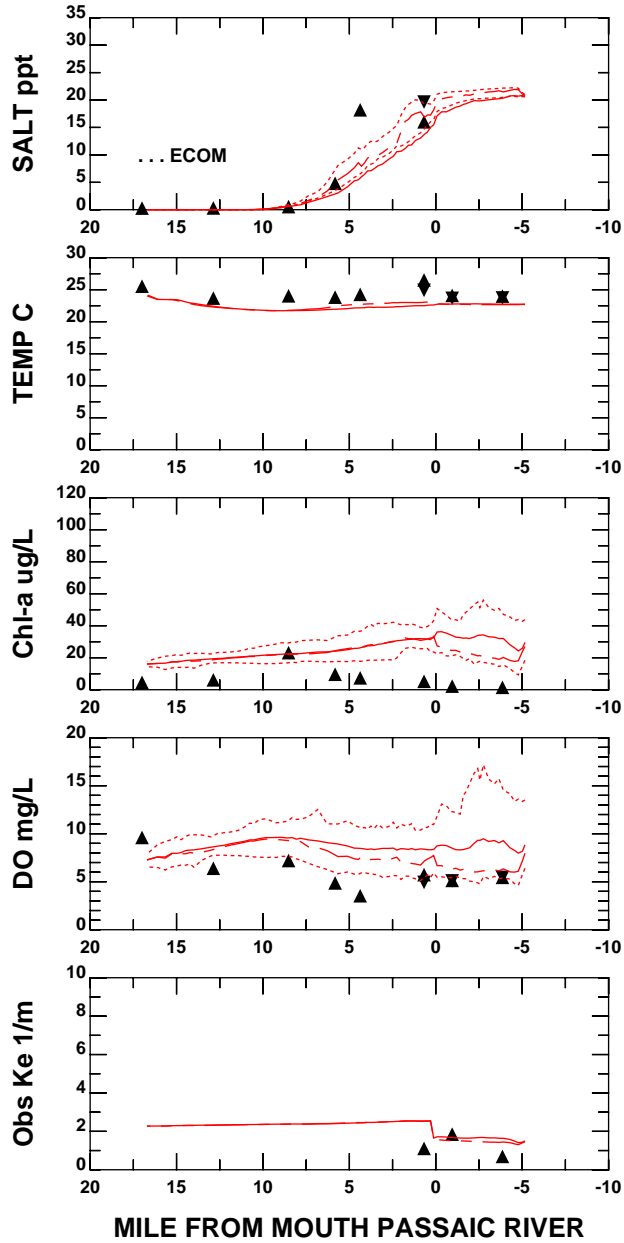


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

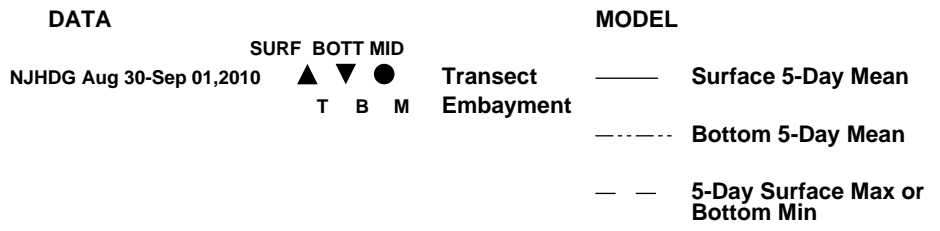
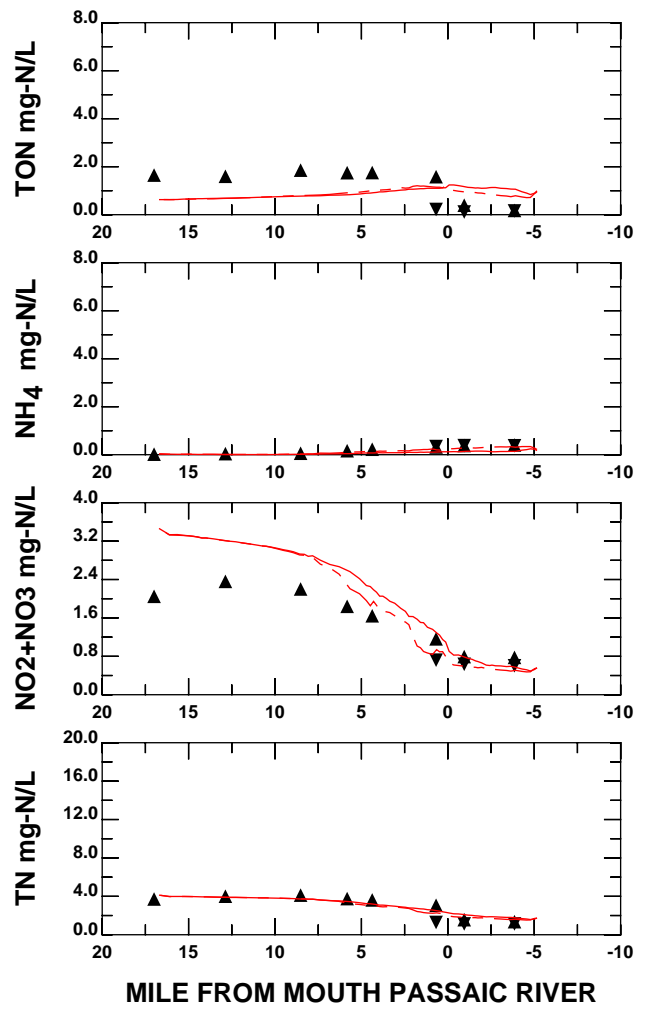
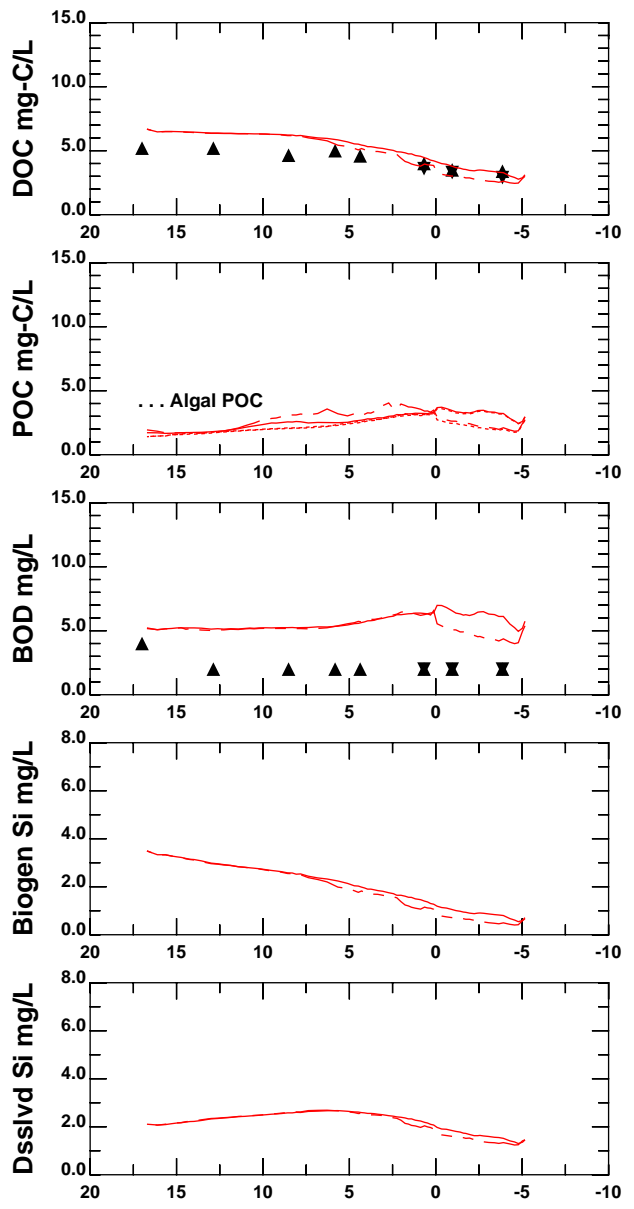




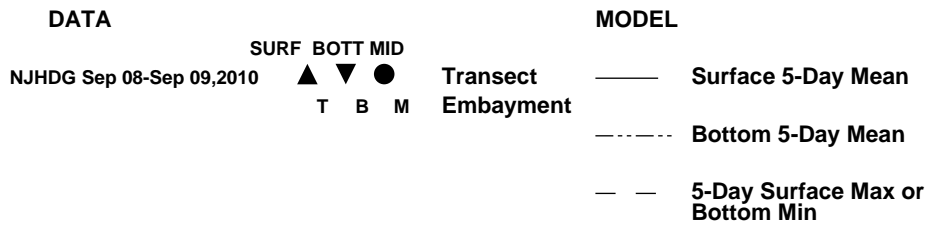
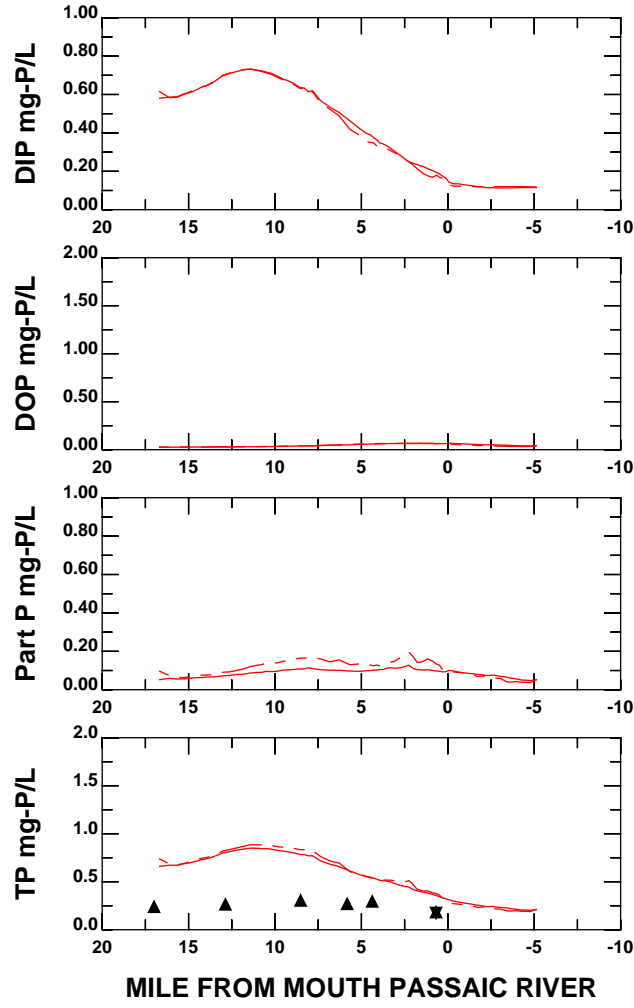
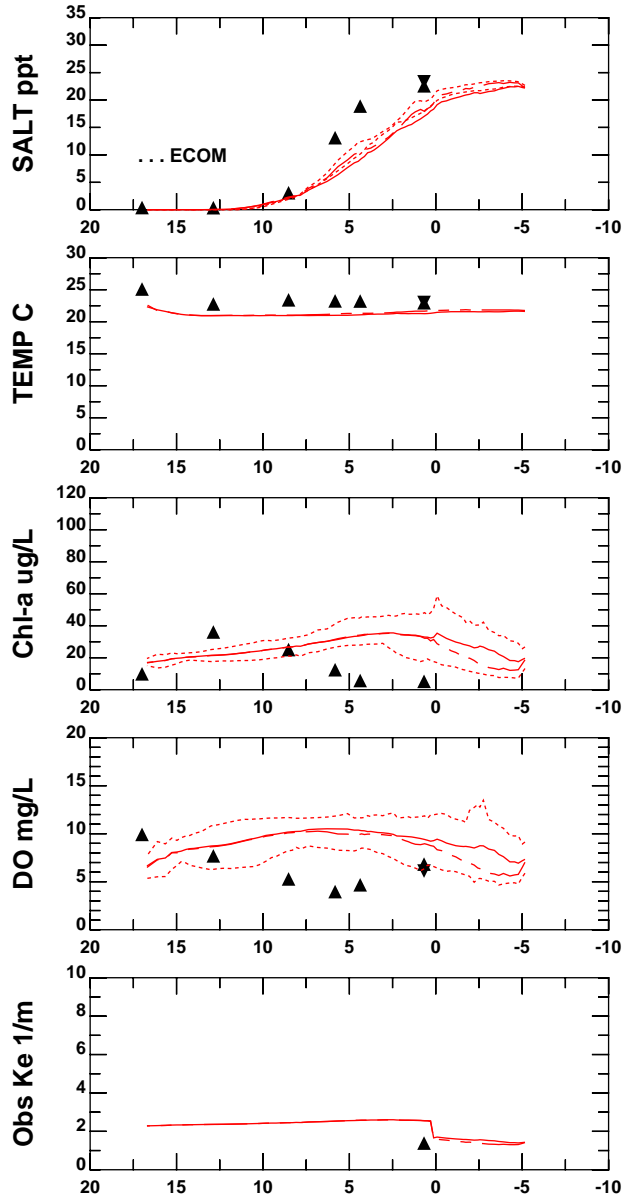
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



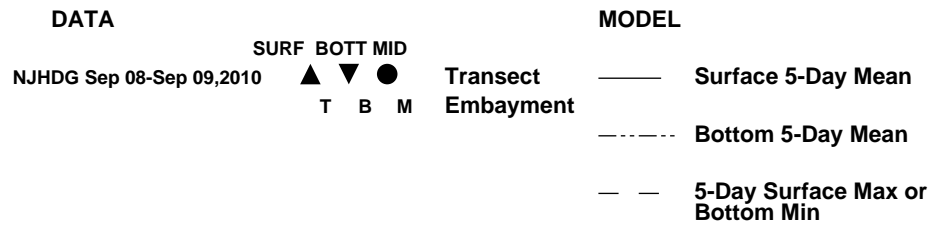
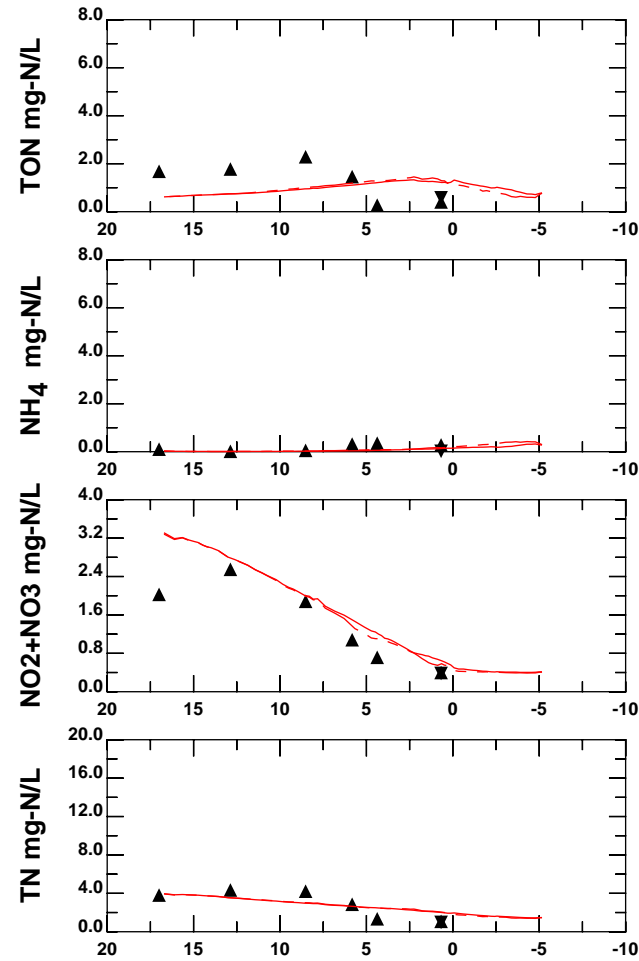
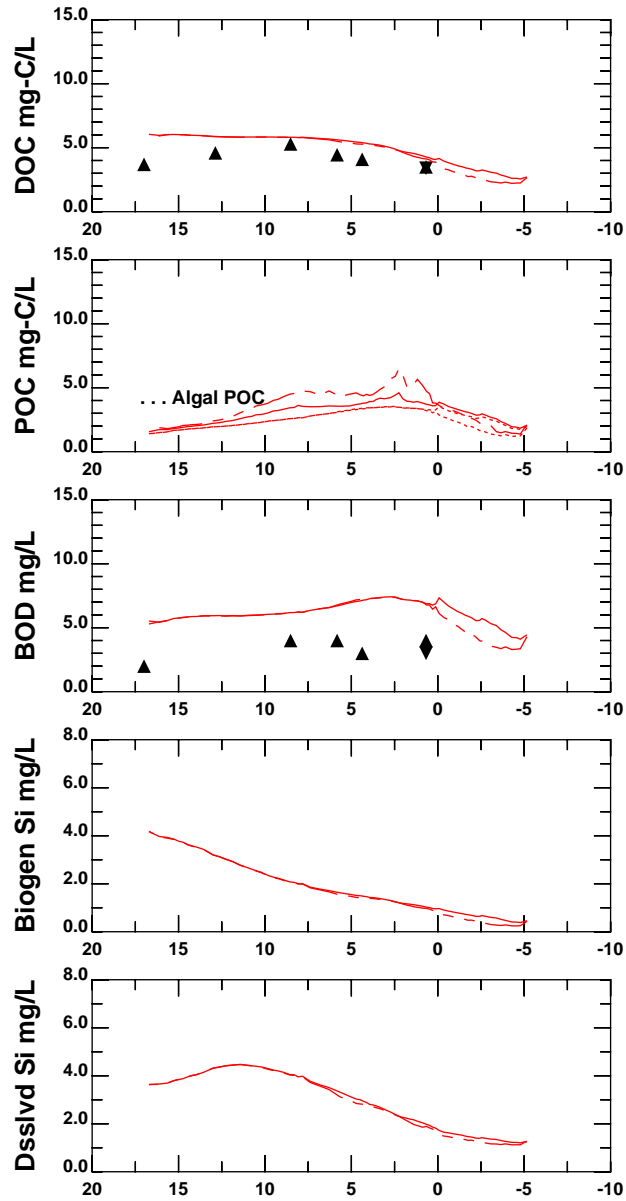
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



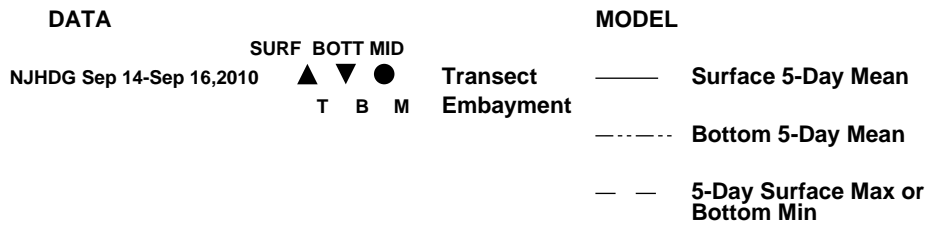
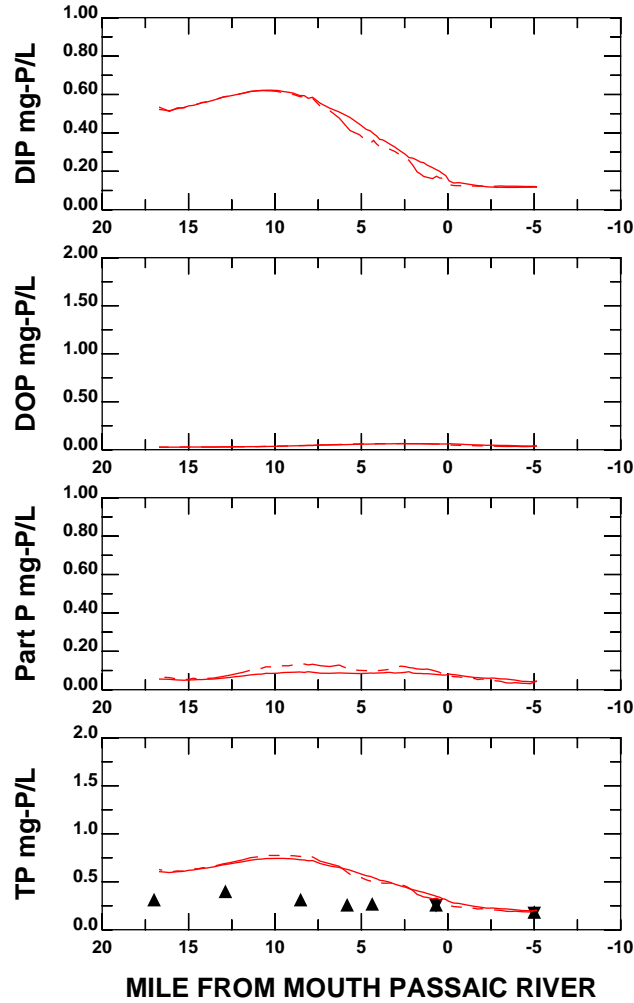
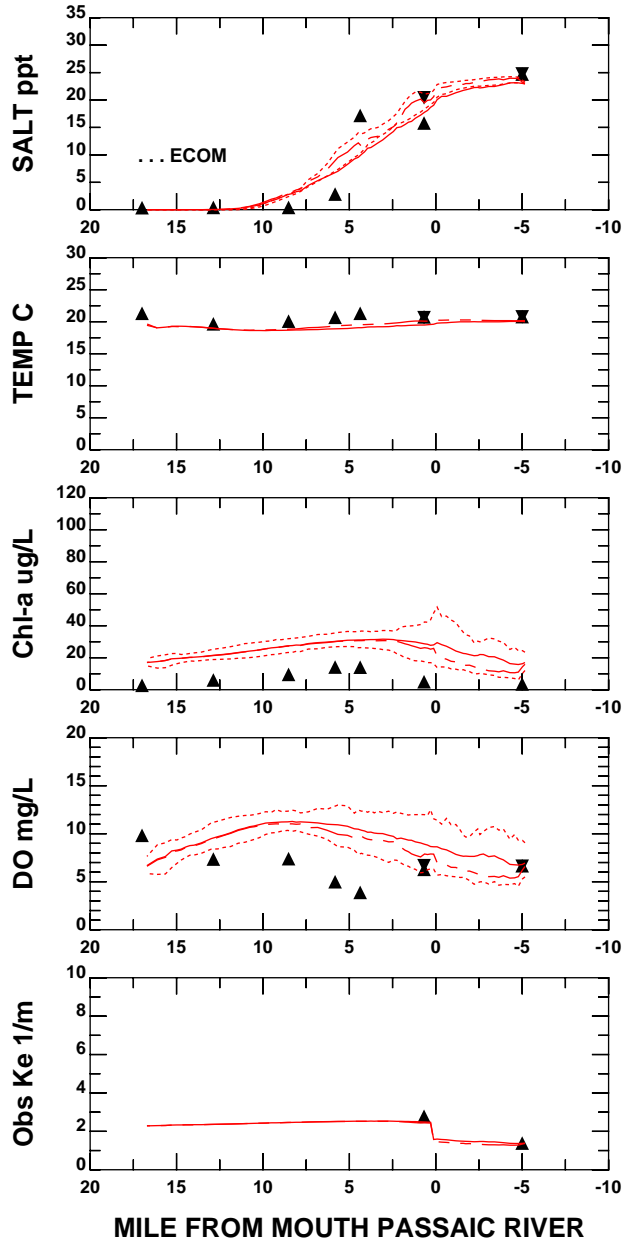
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



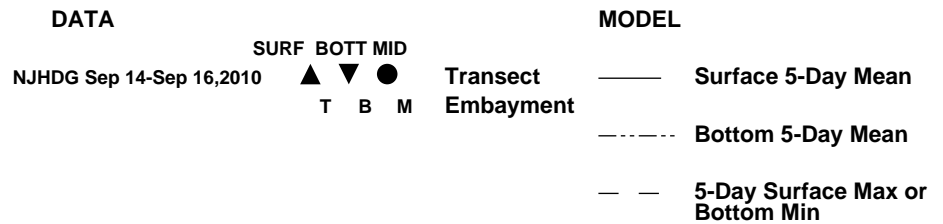
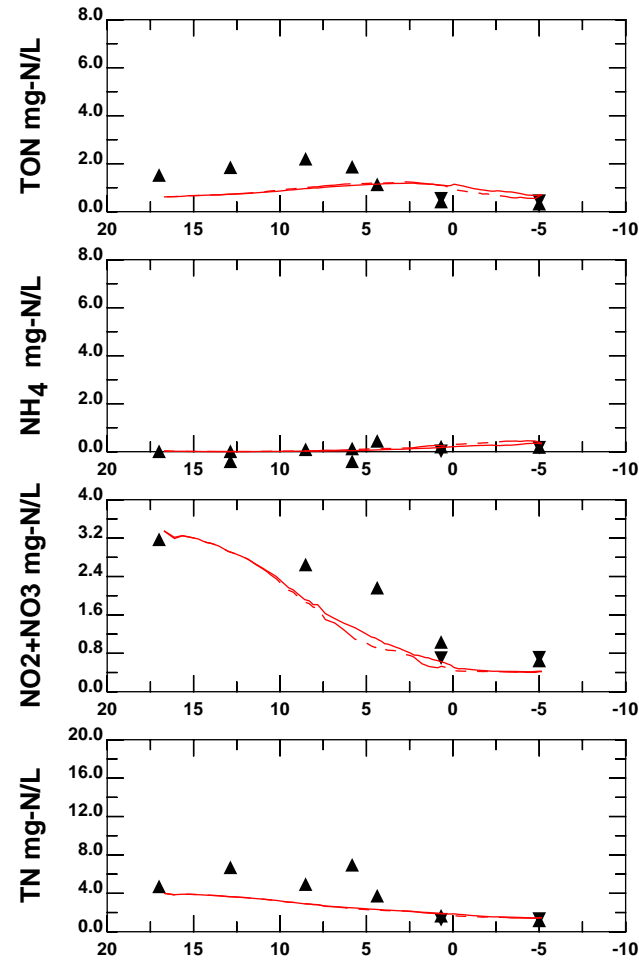
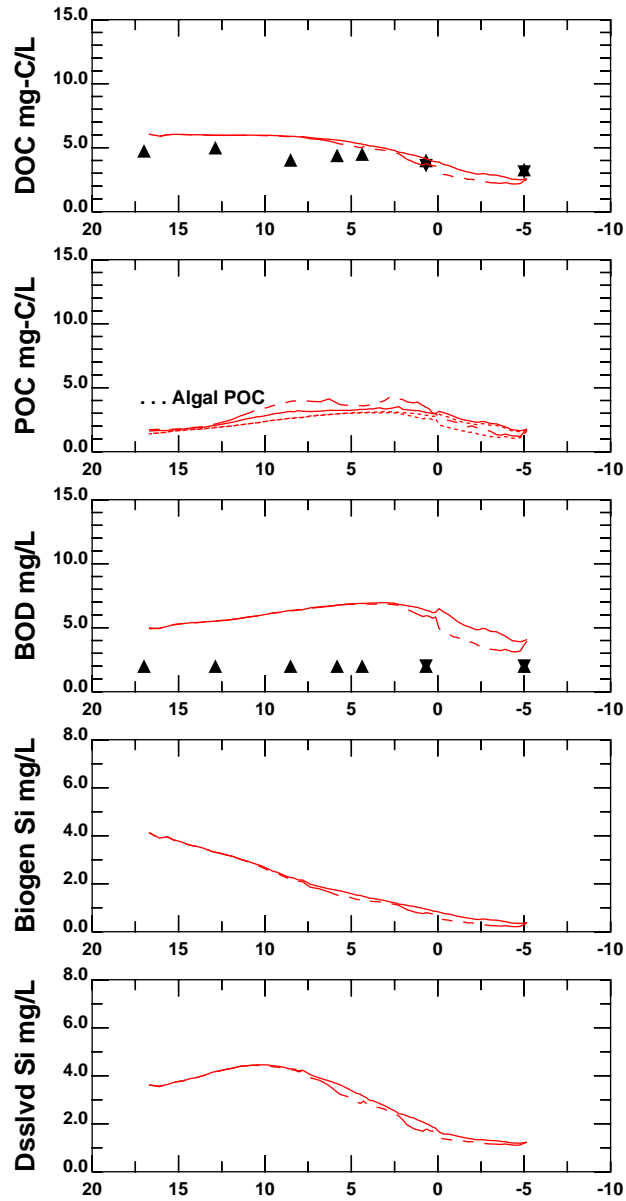
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



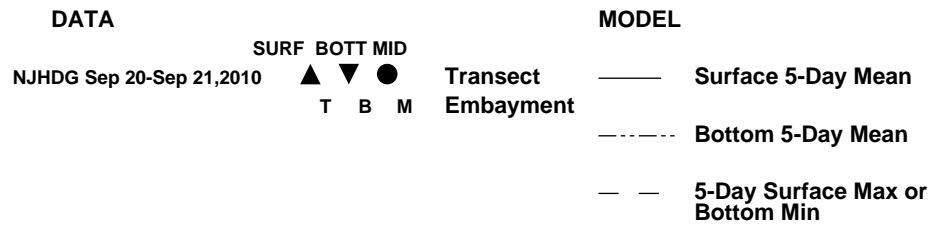
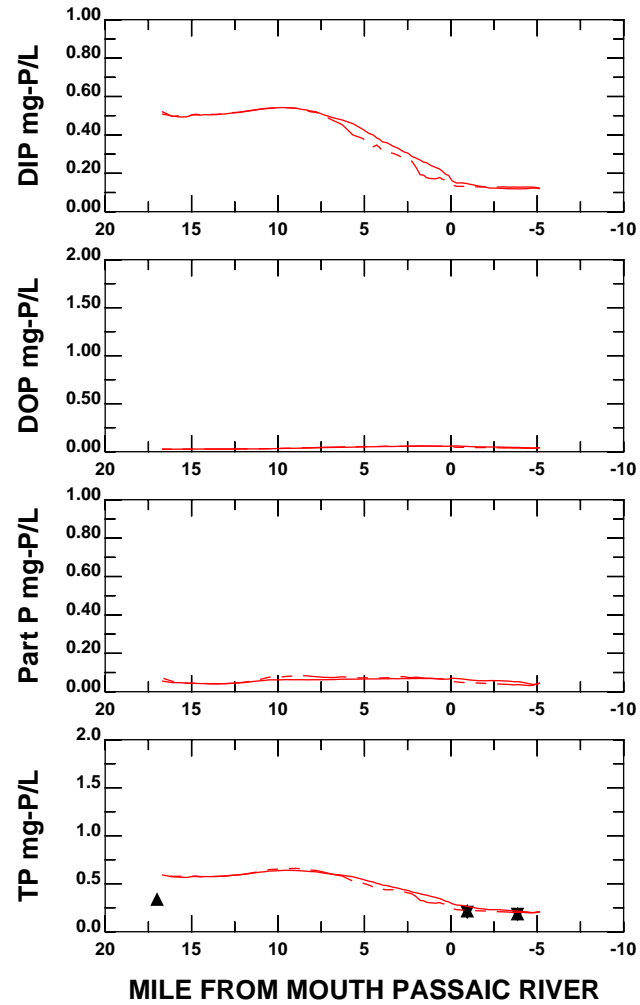
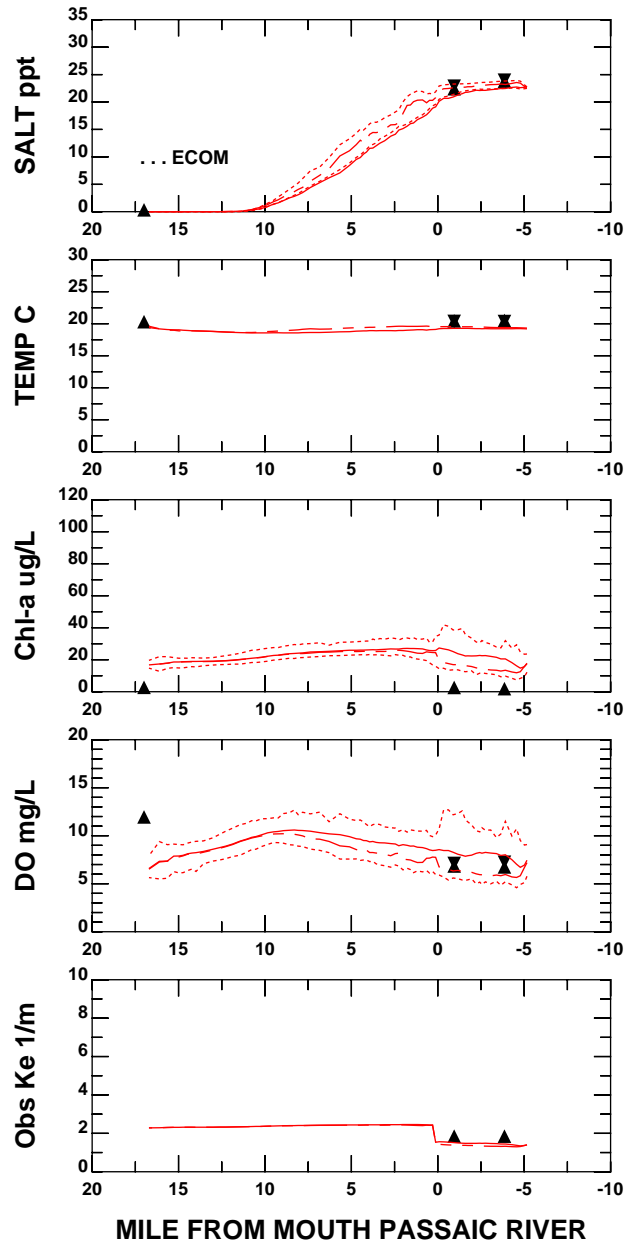
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

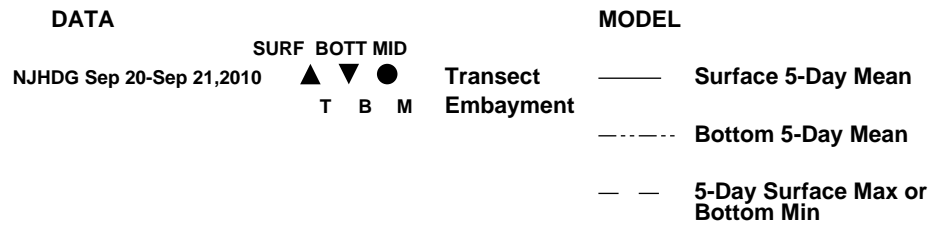
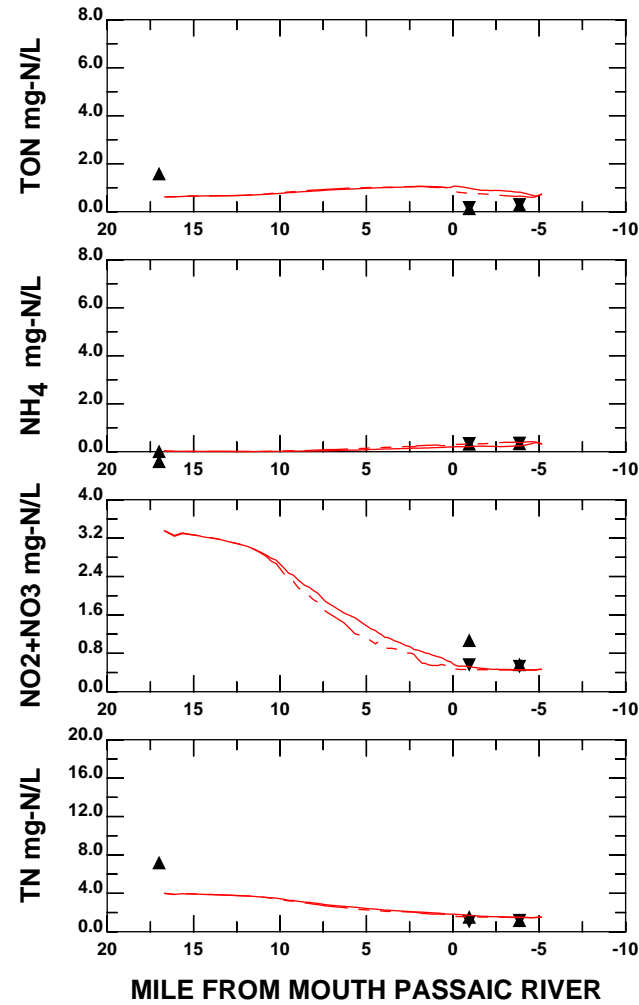
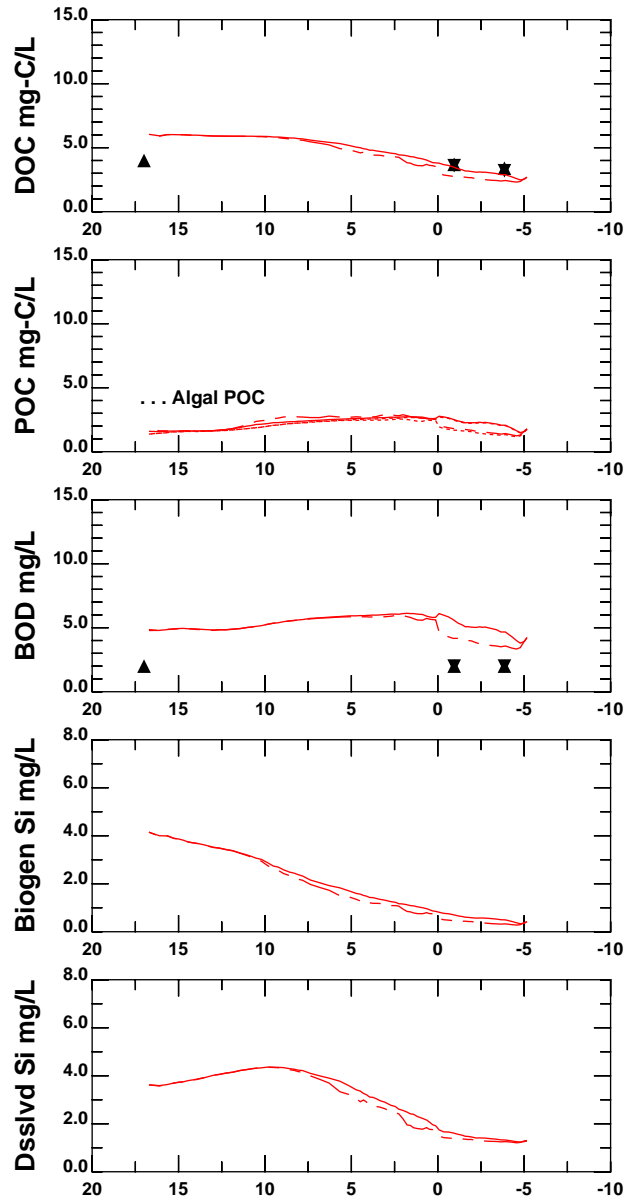


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

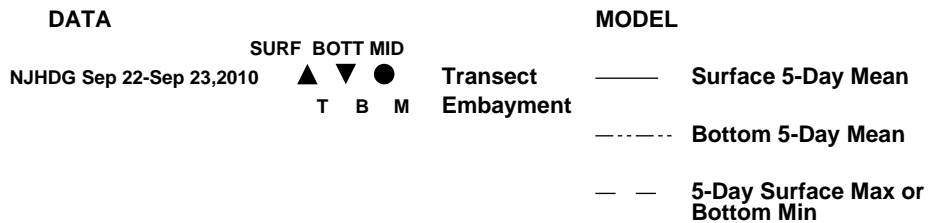
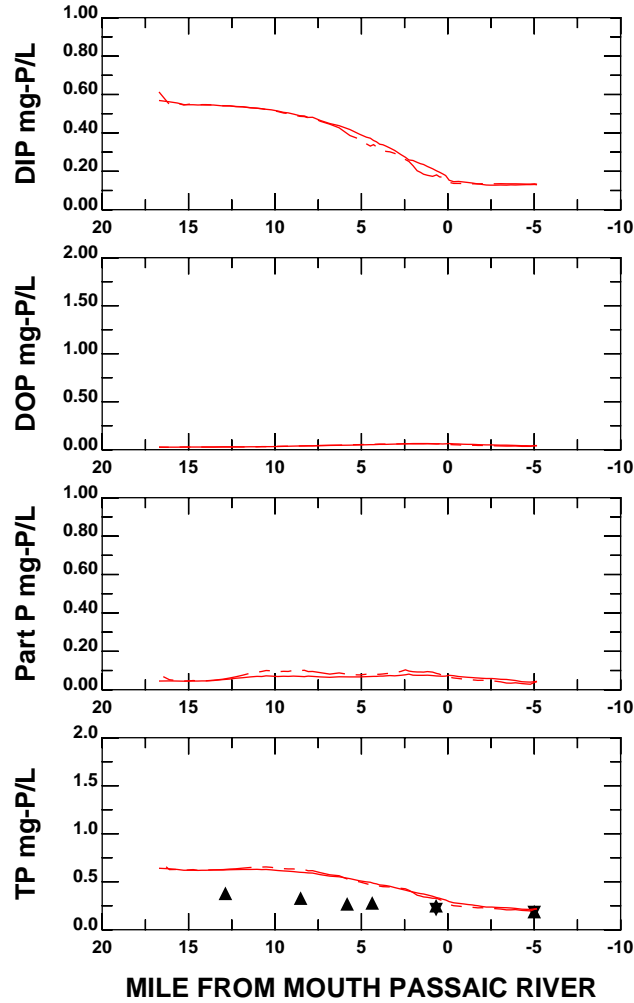
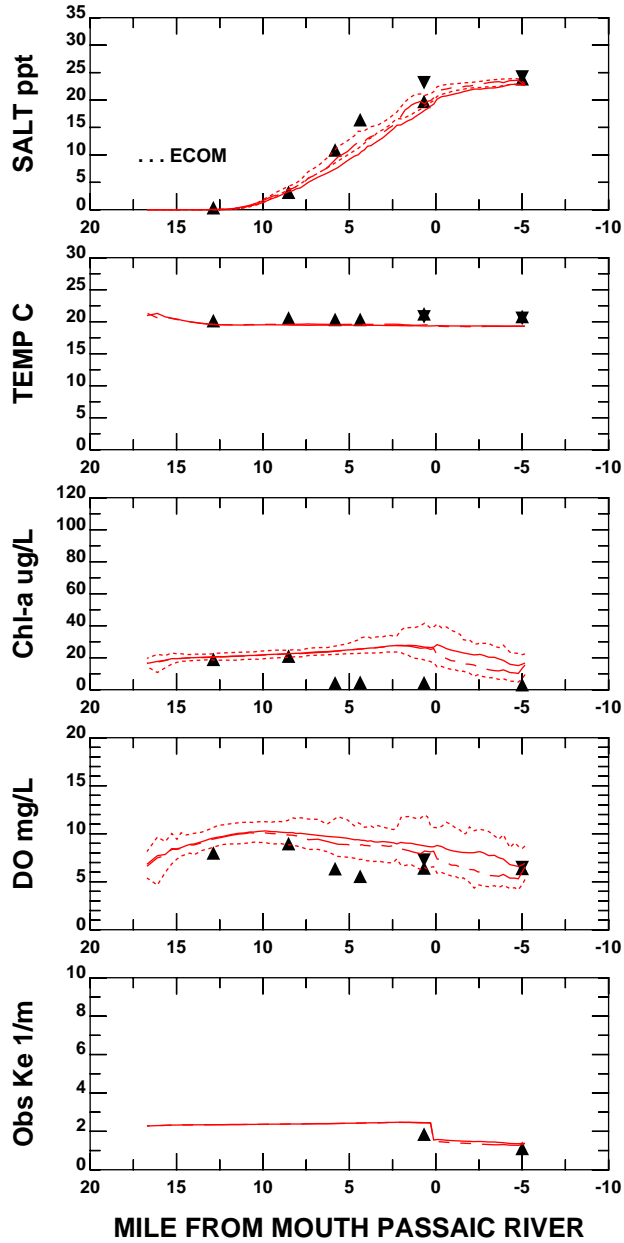


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

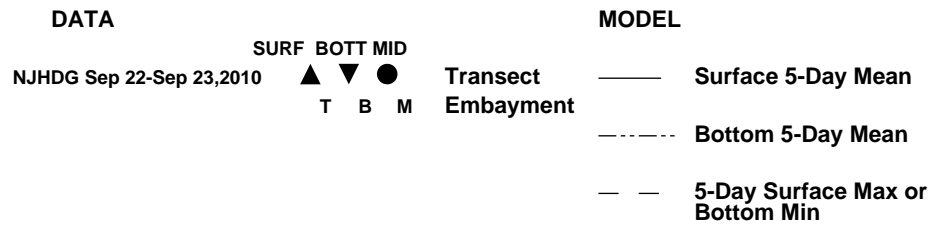
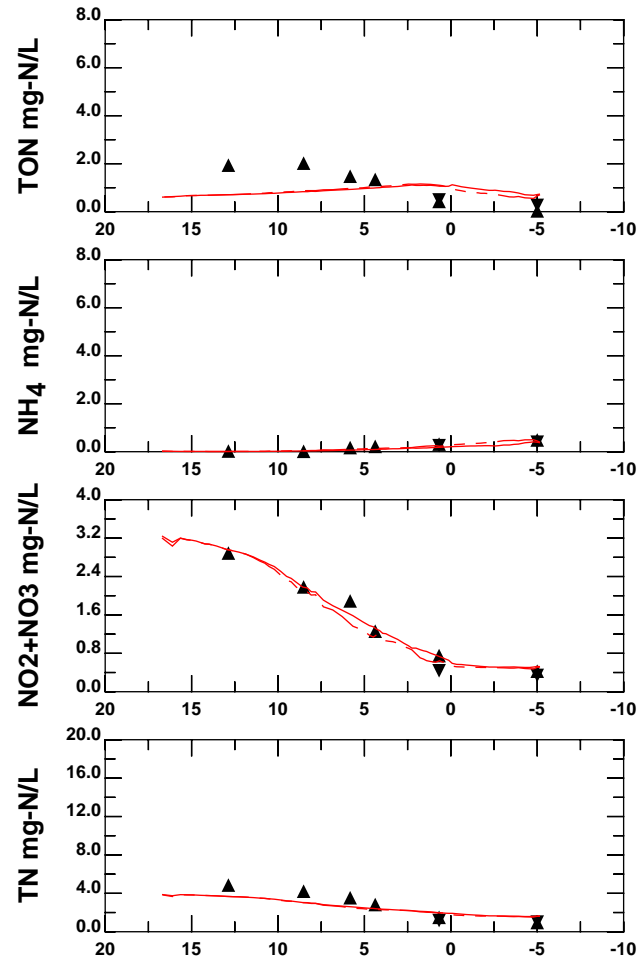
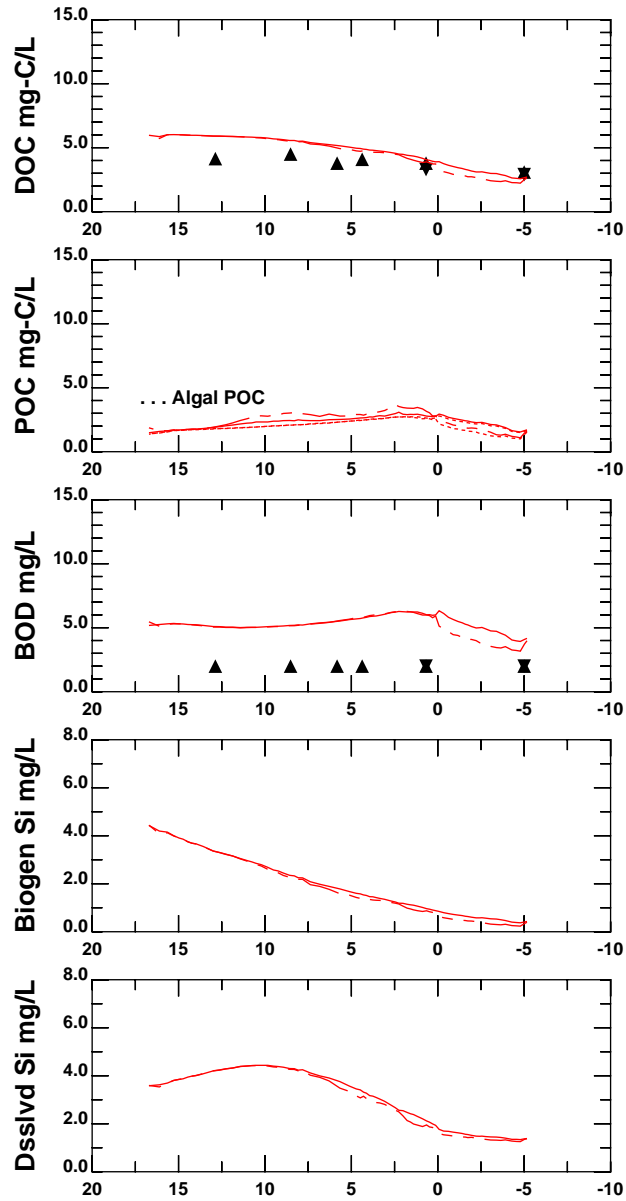




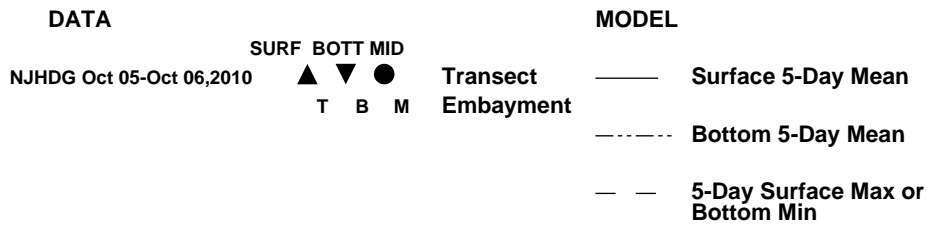
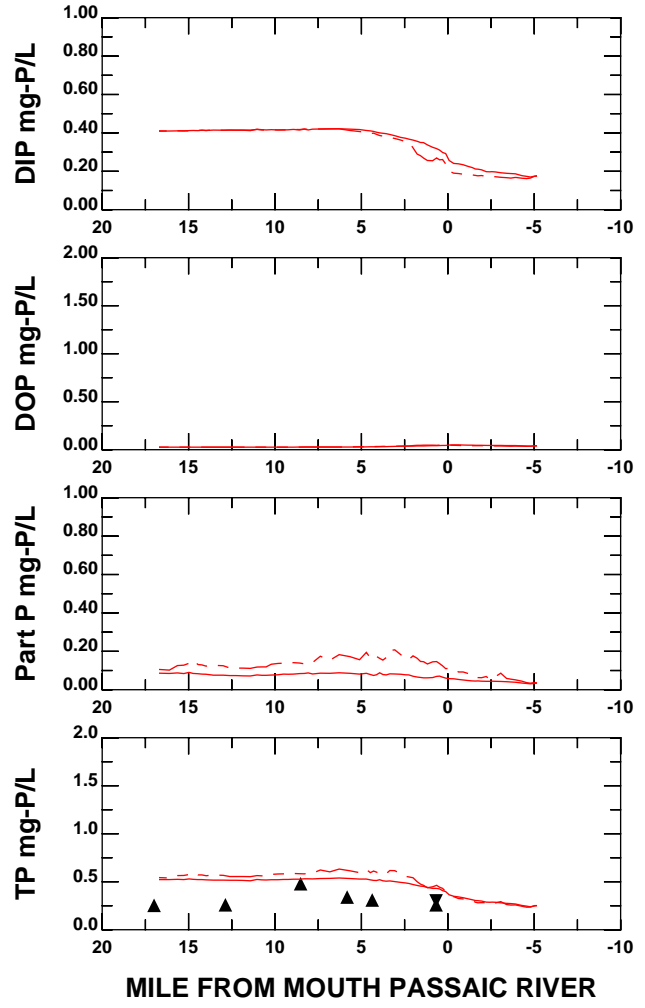
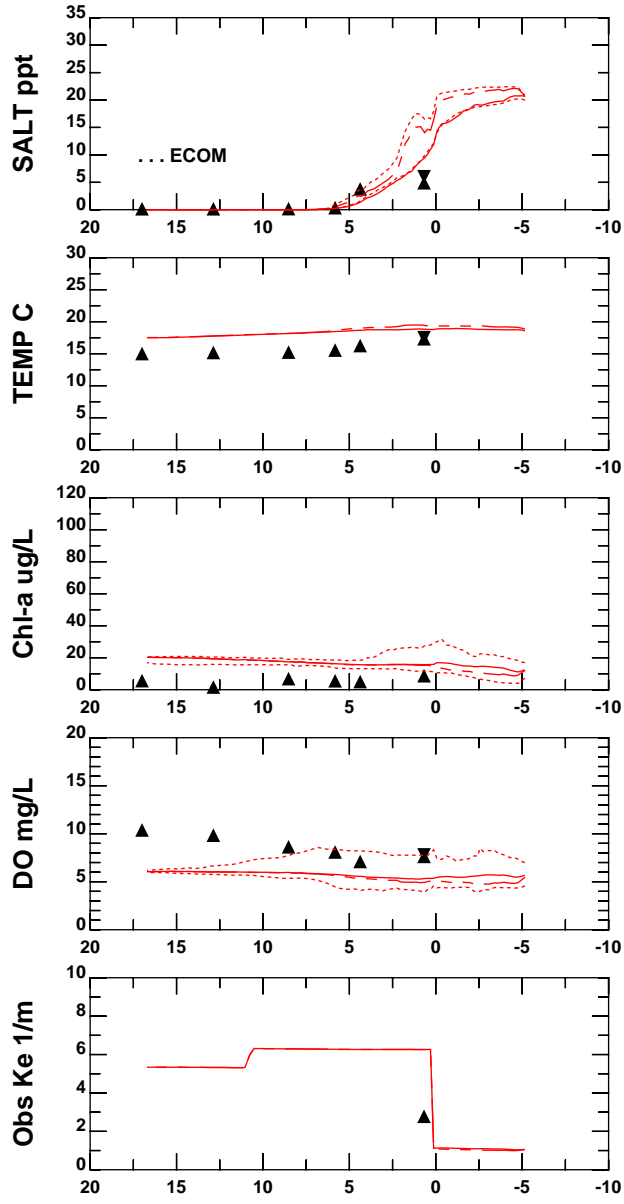
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



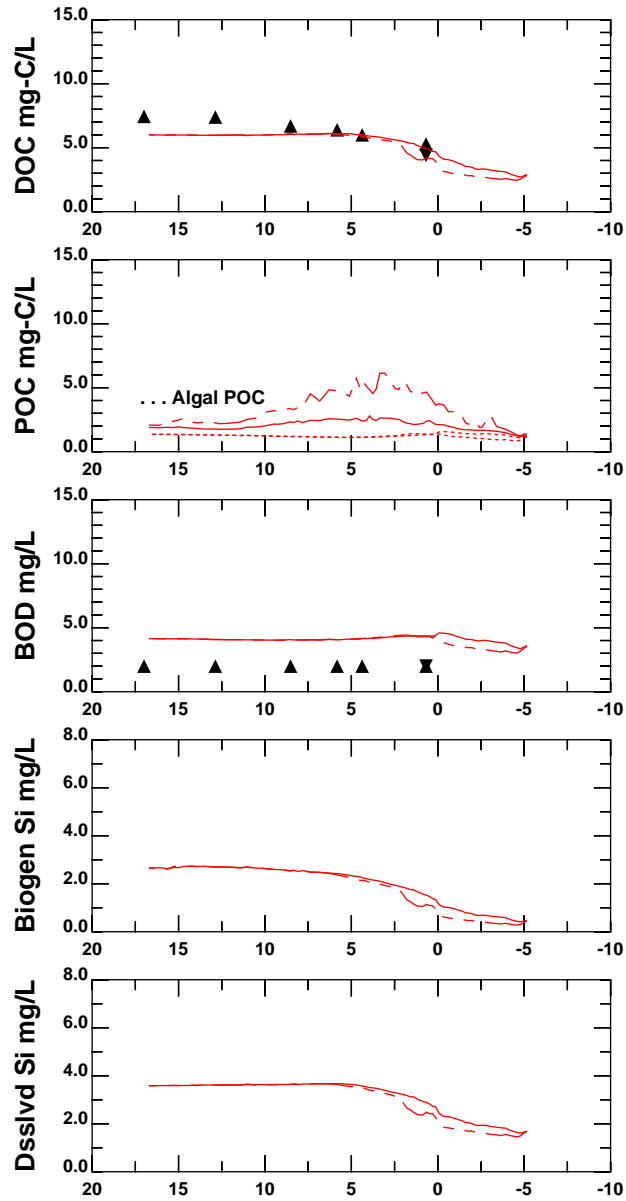
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910



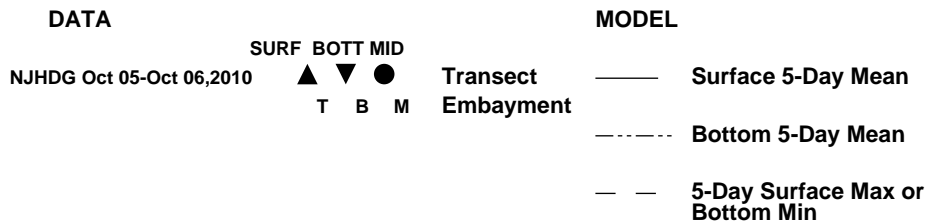
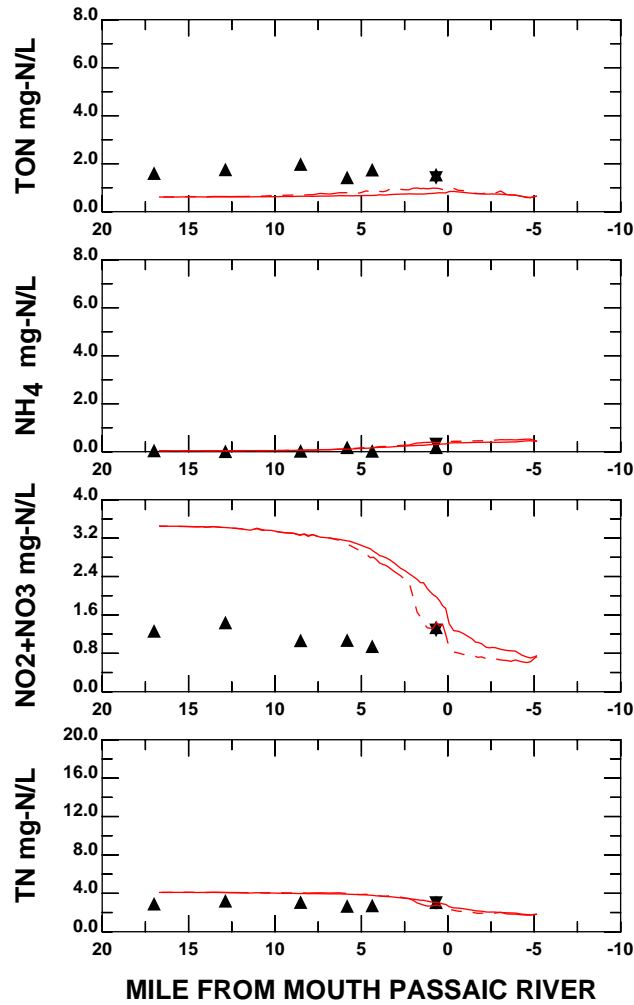
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 0910

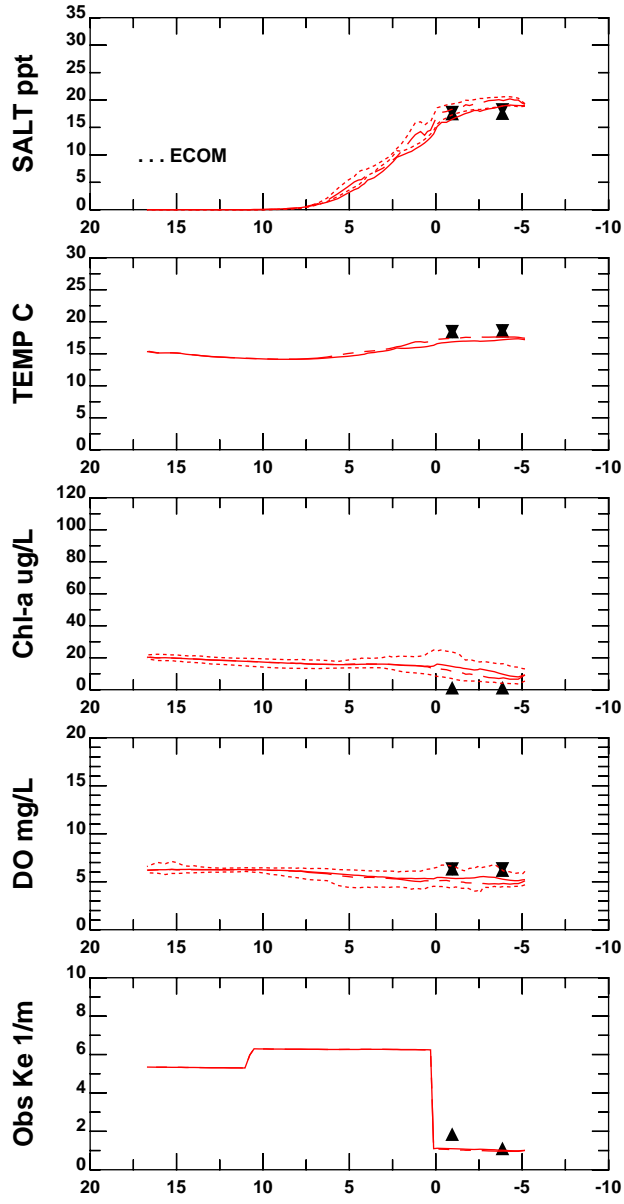


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

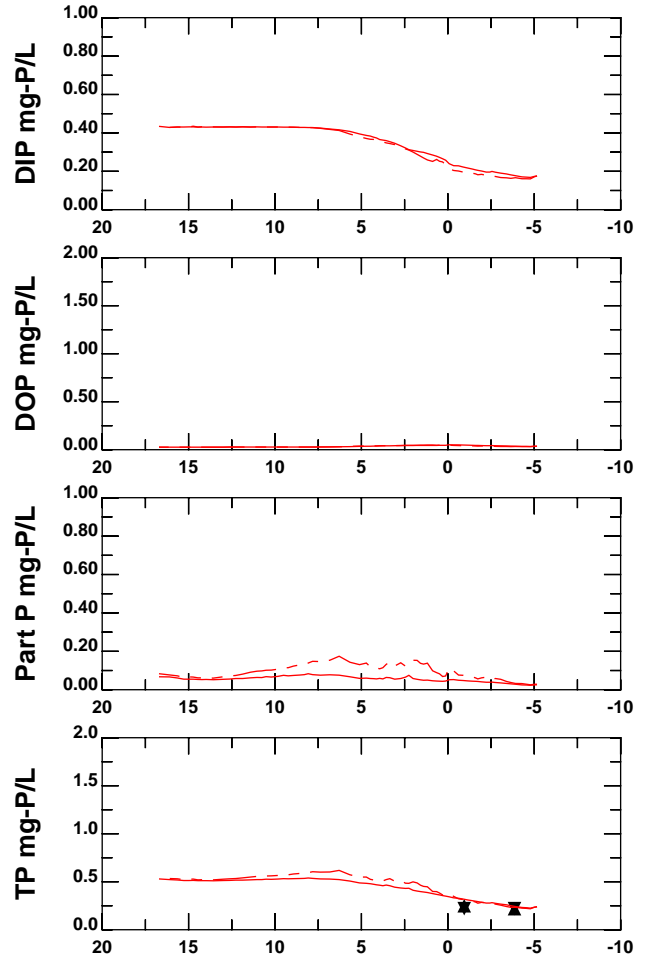


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

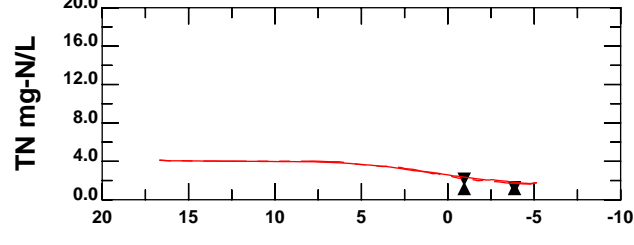
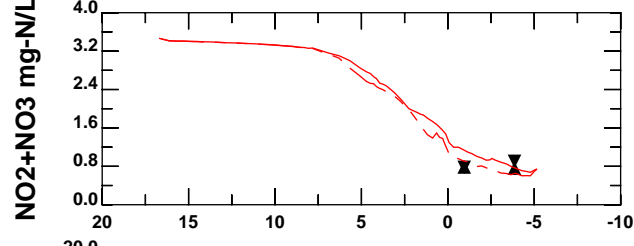
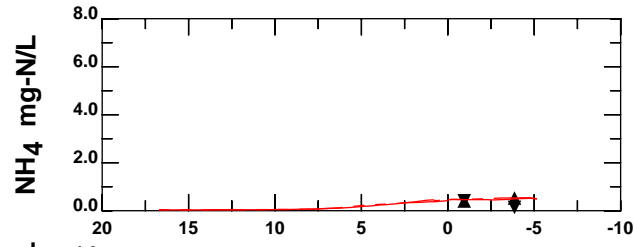
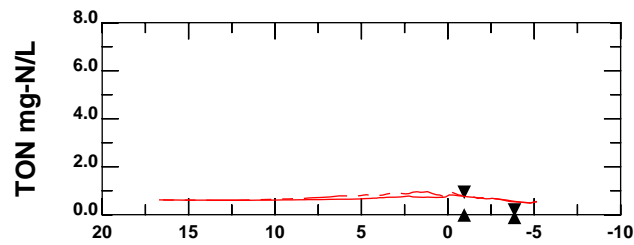
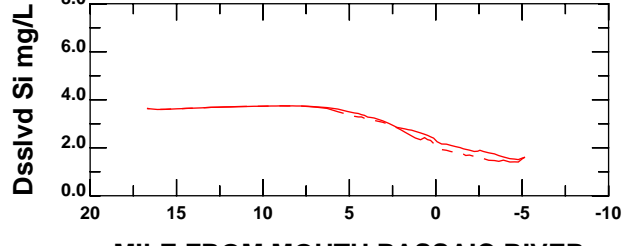
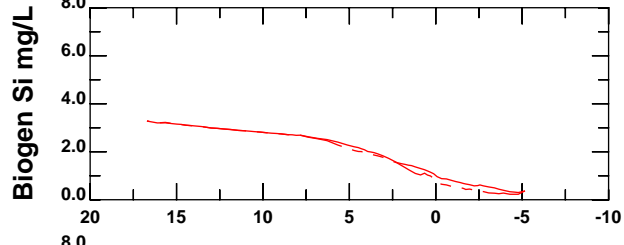
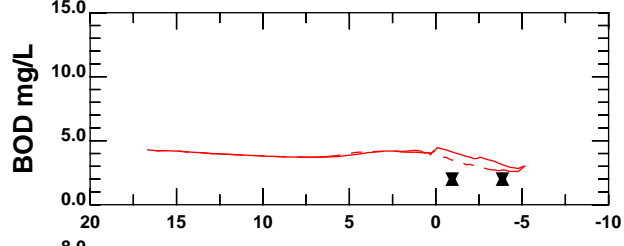
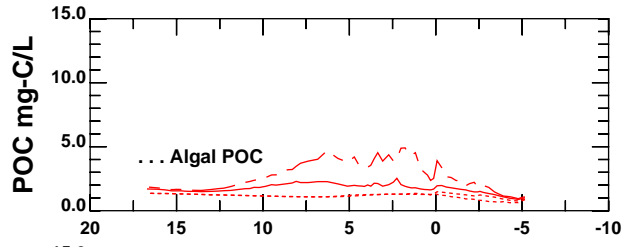
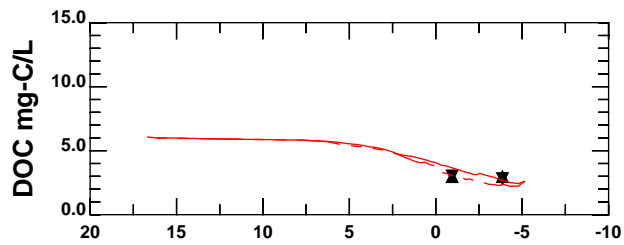
DATA  
NJHDG Oct 07,2010

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



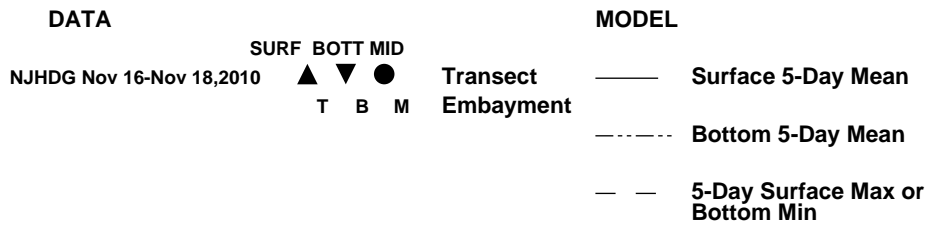
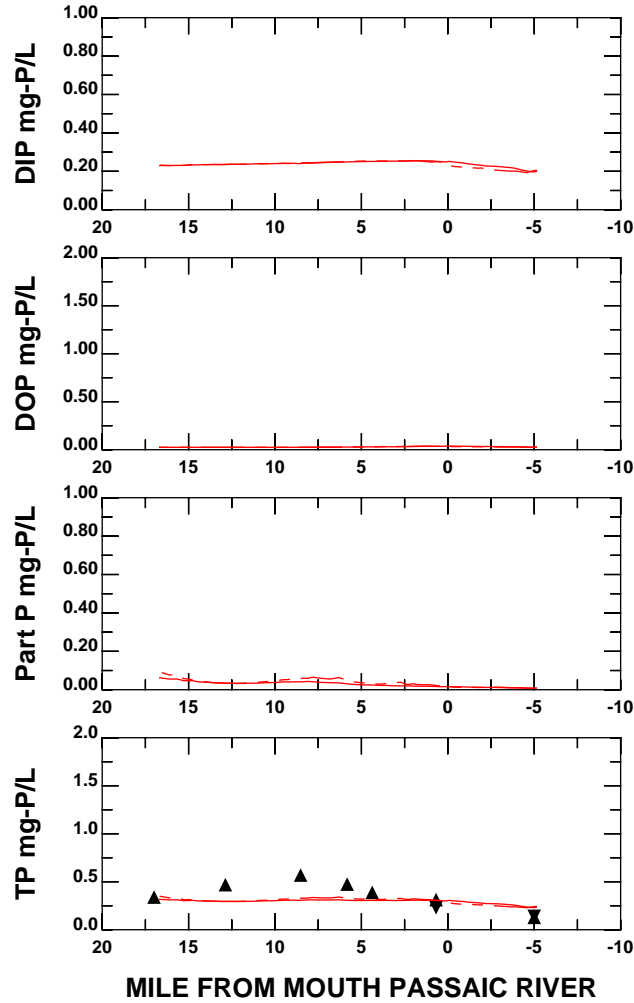
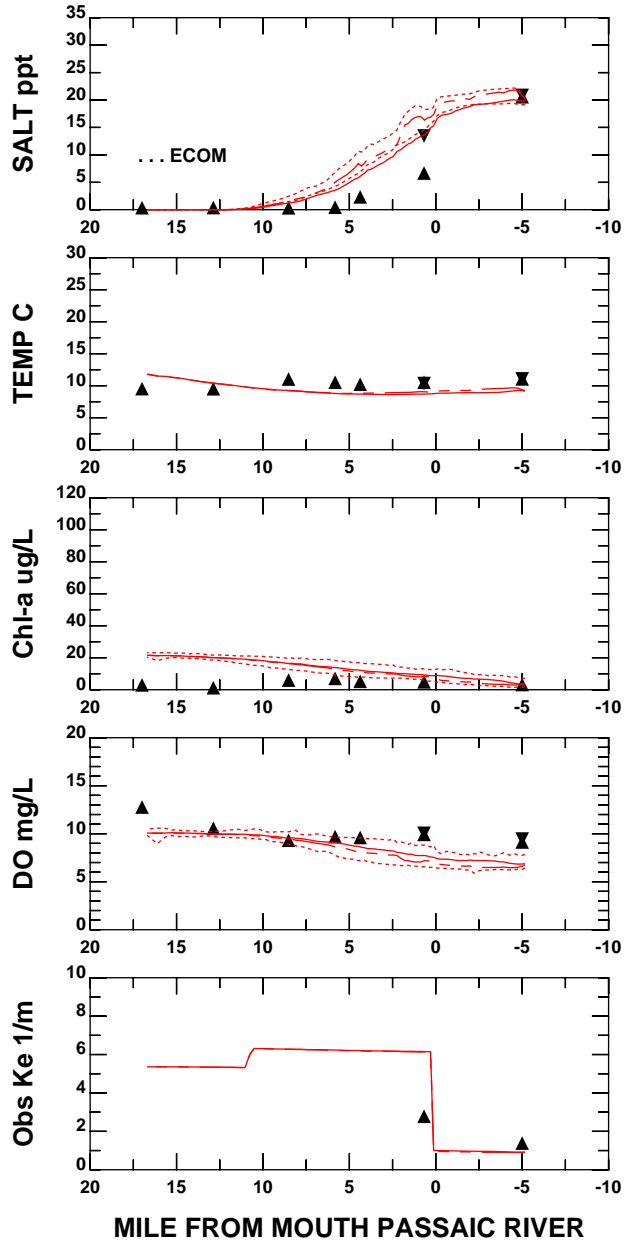
DATA  
NJHDG Oct 07,2010

MODEL

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

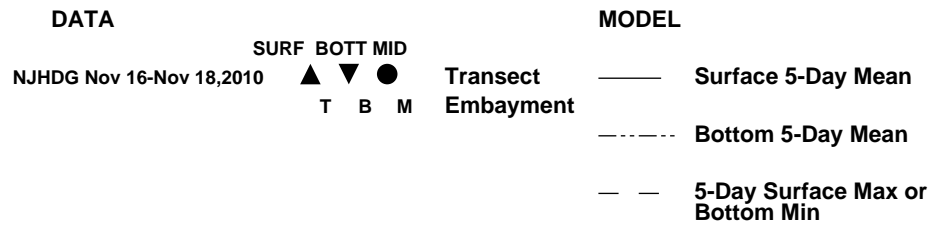
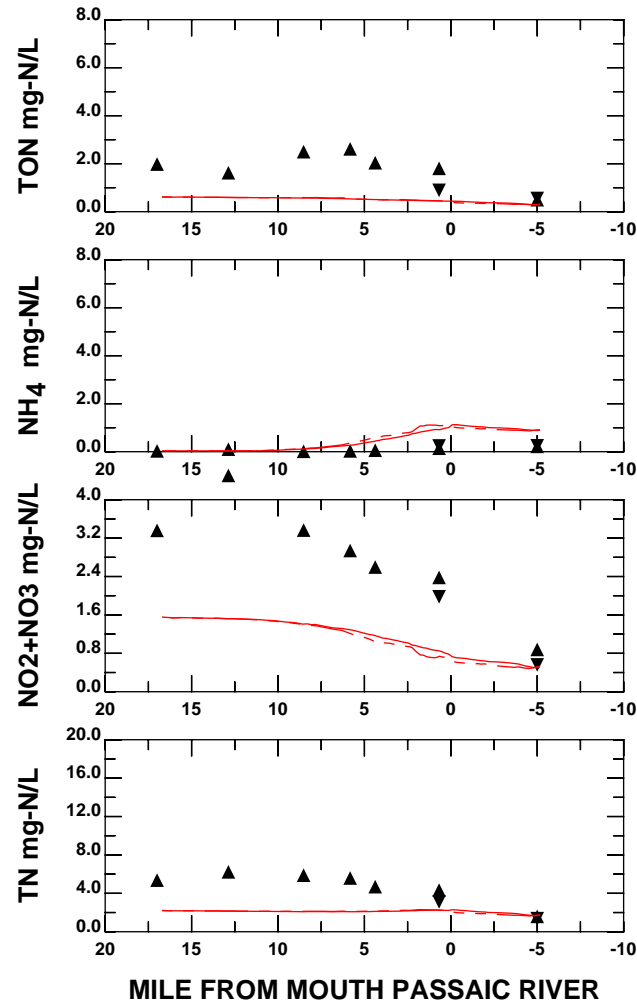
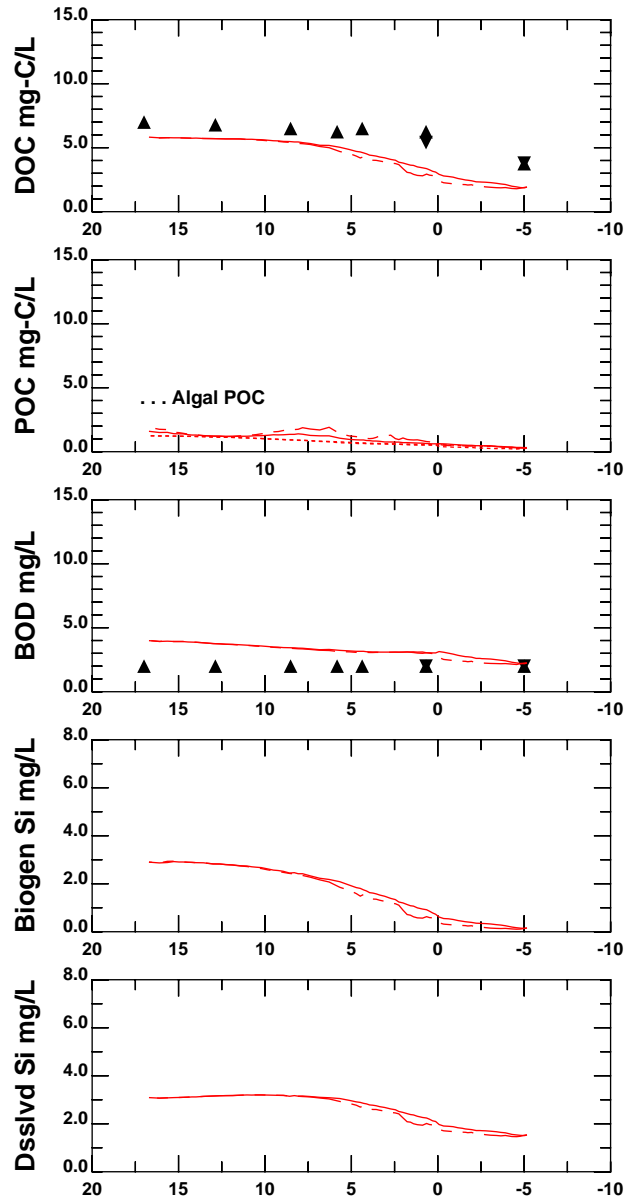
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011

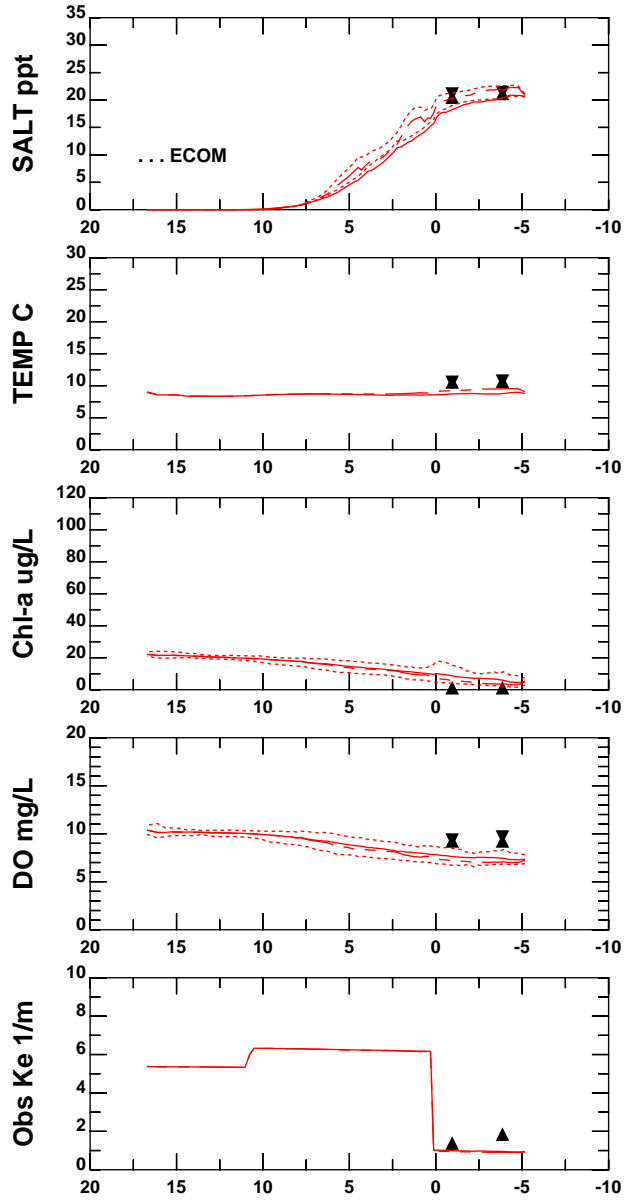


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

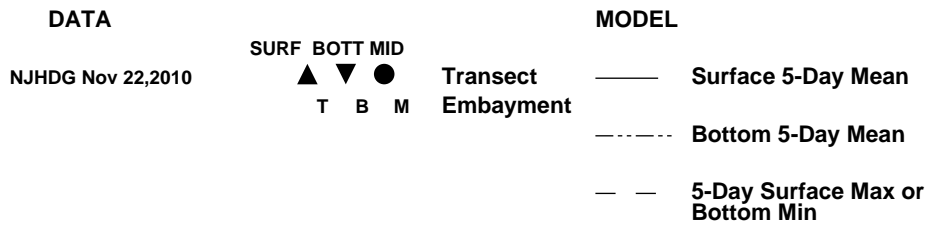
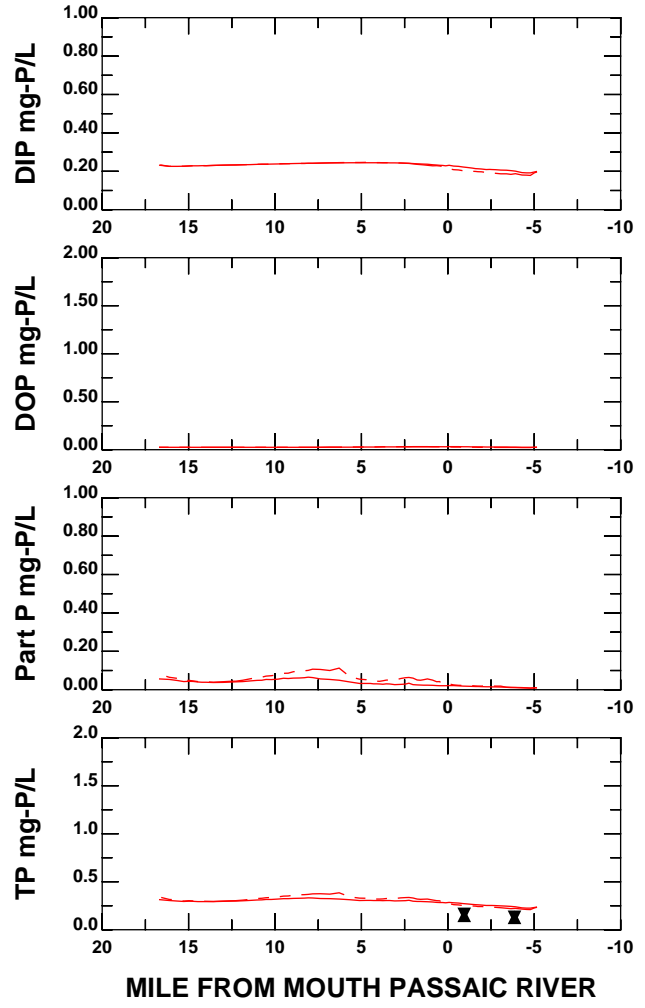


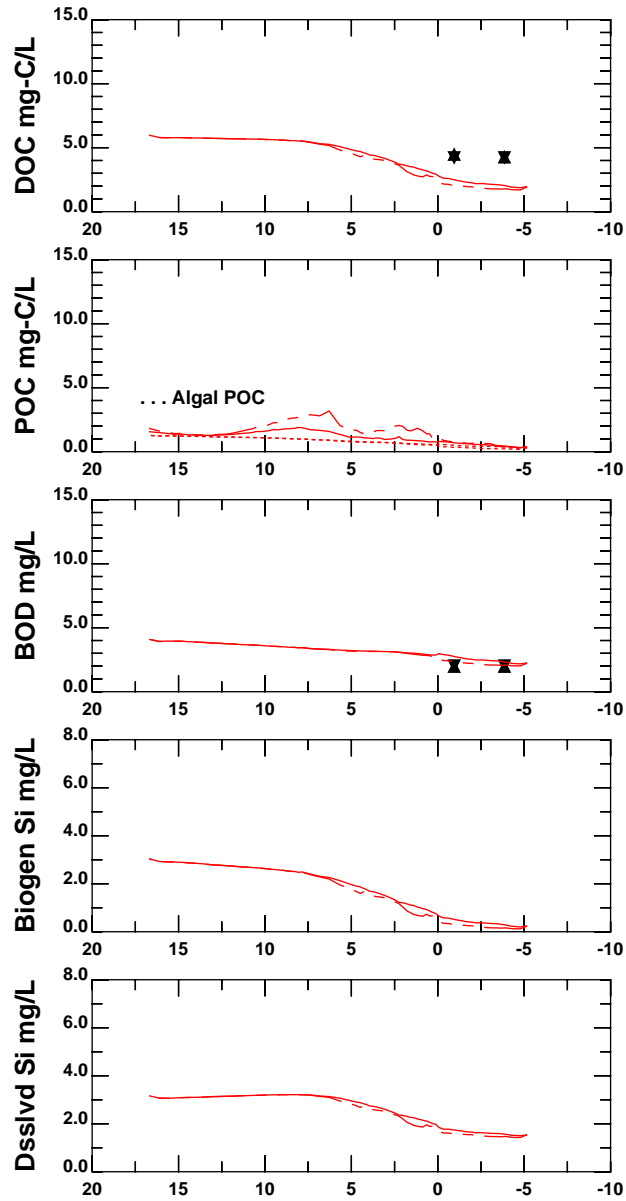


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
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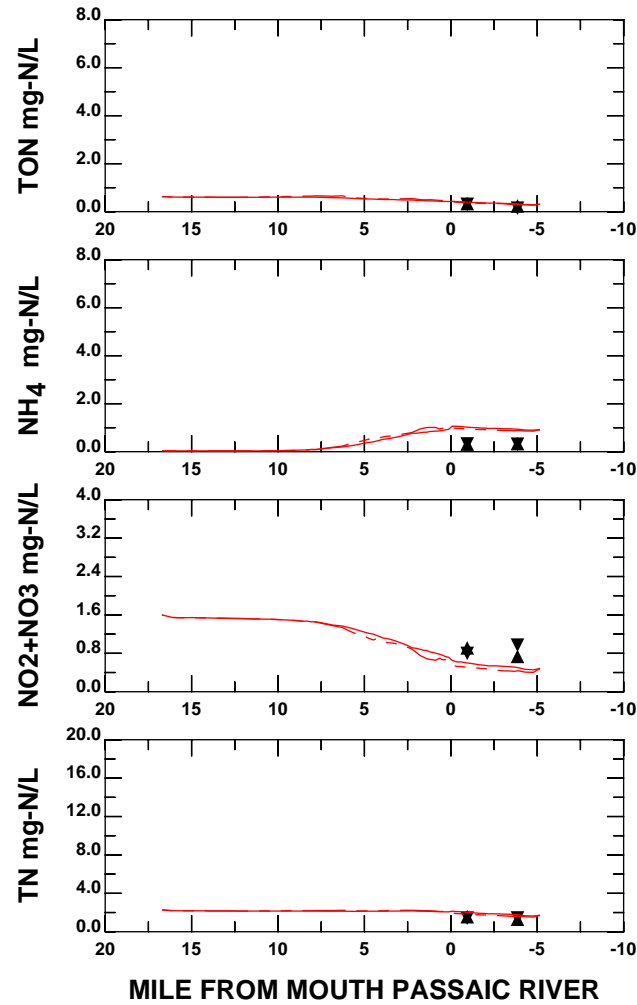




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Nov 22,2010

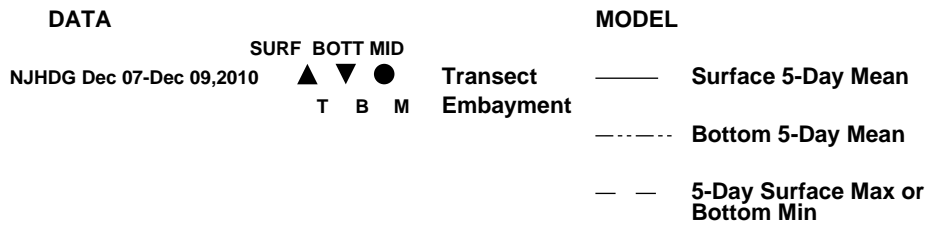
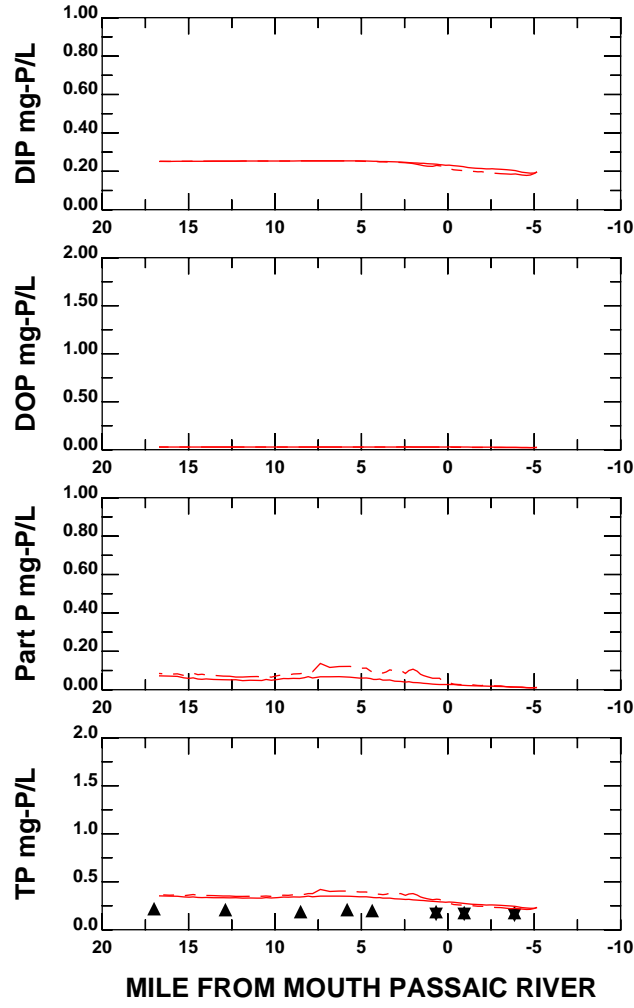
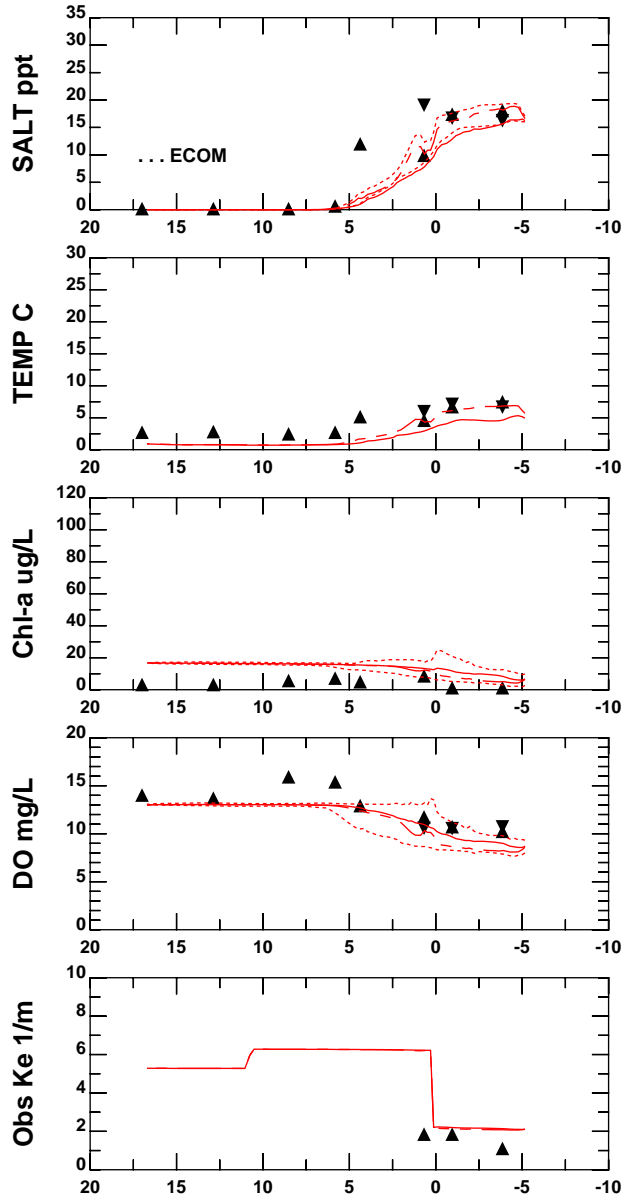
SURF BOTT MID

▲ ▼ ●  
T B M

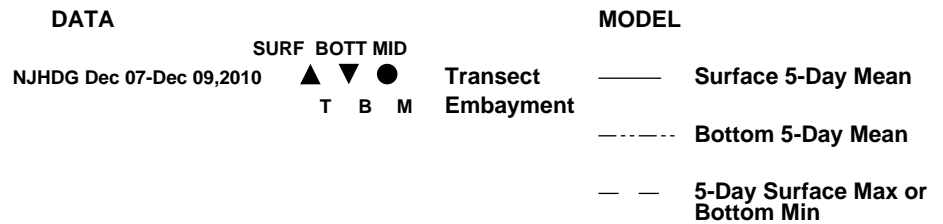
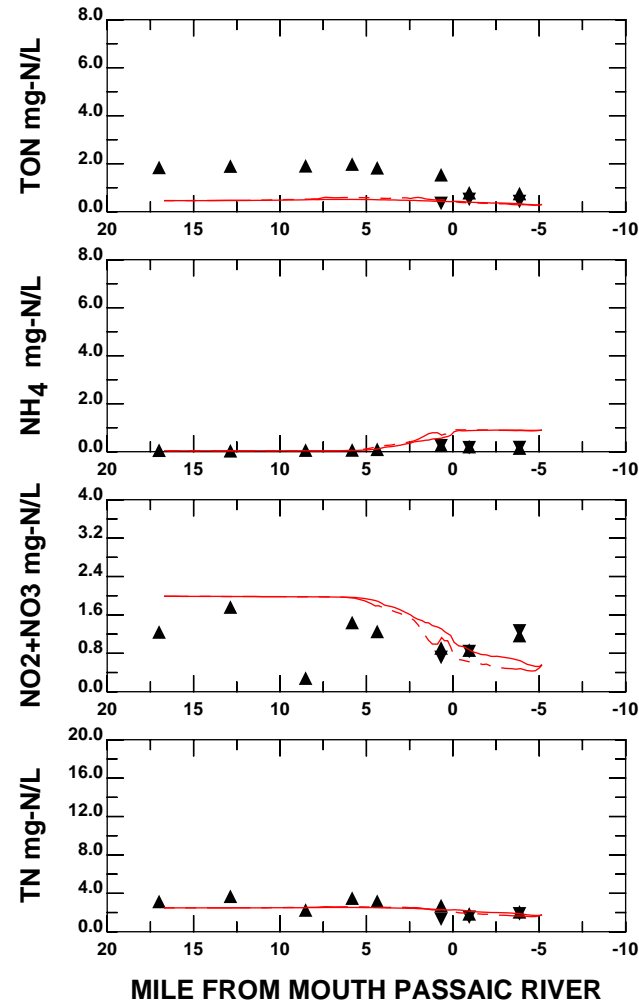
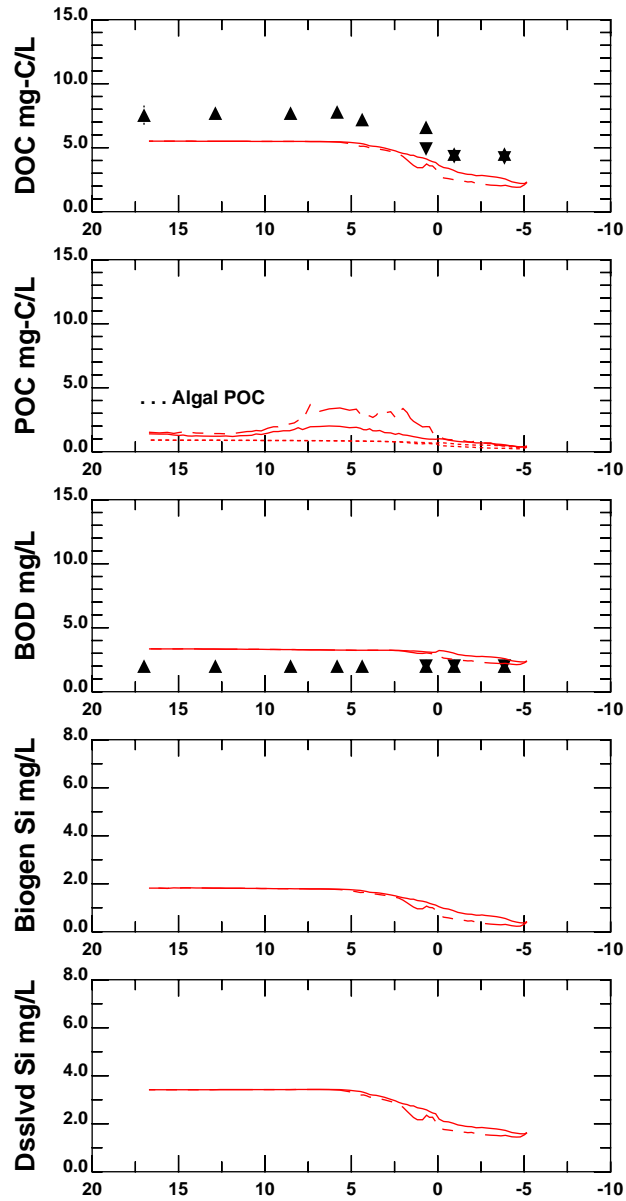
Transect  
Embayment

#### MODEL

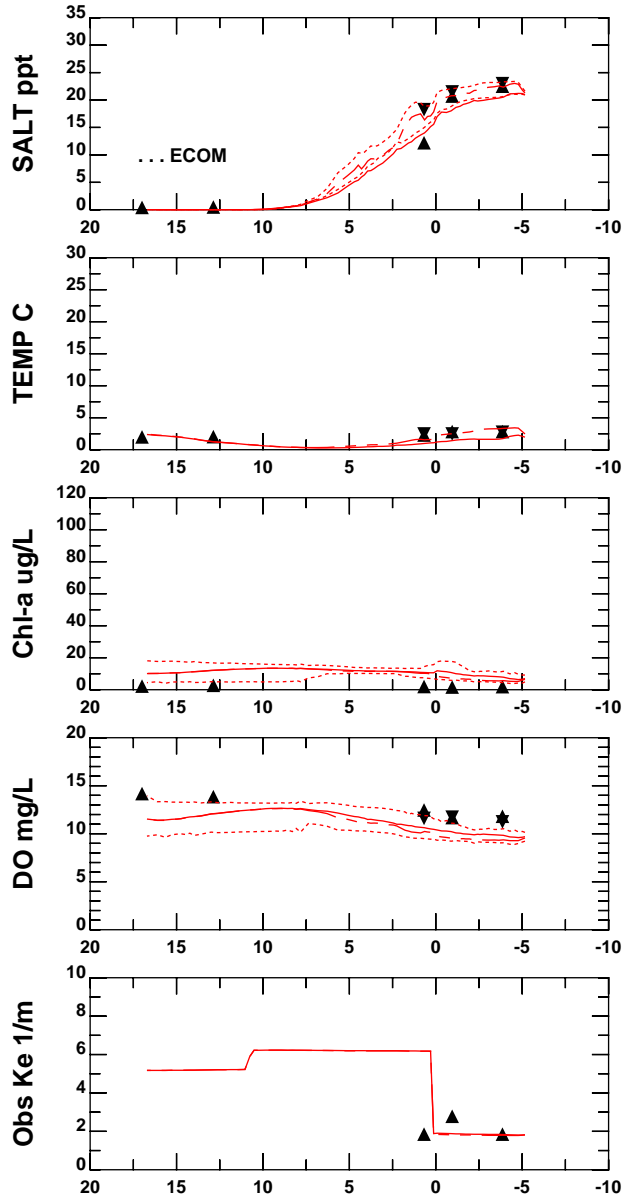
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- . - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



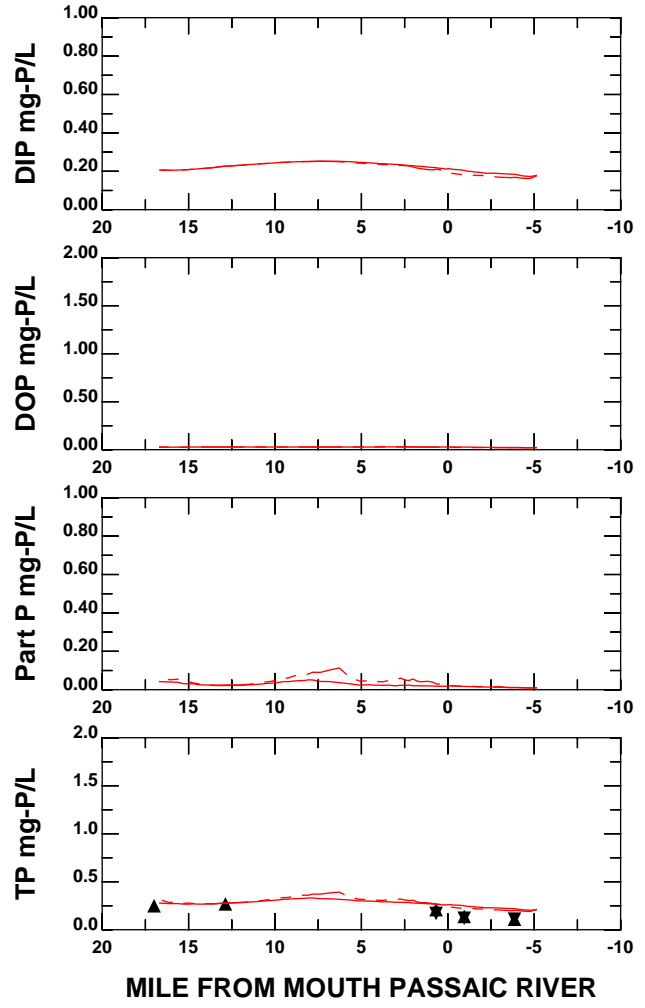
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



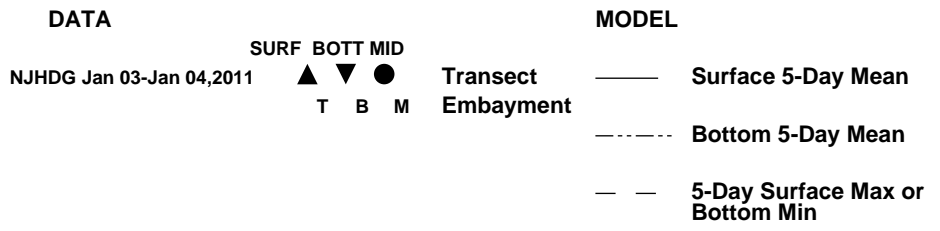
MILE FROM MOUTH PASSAIC RIVER

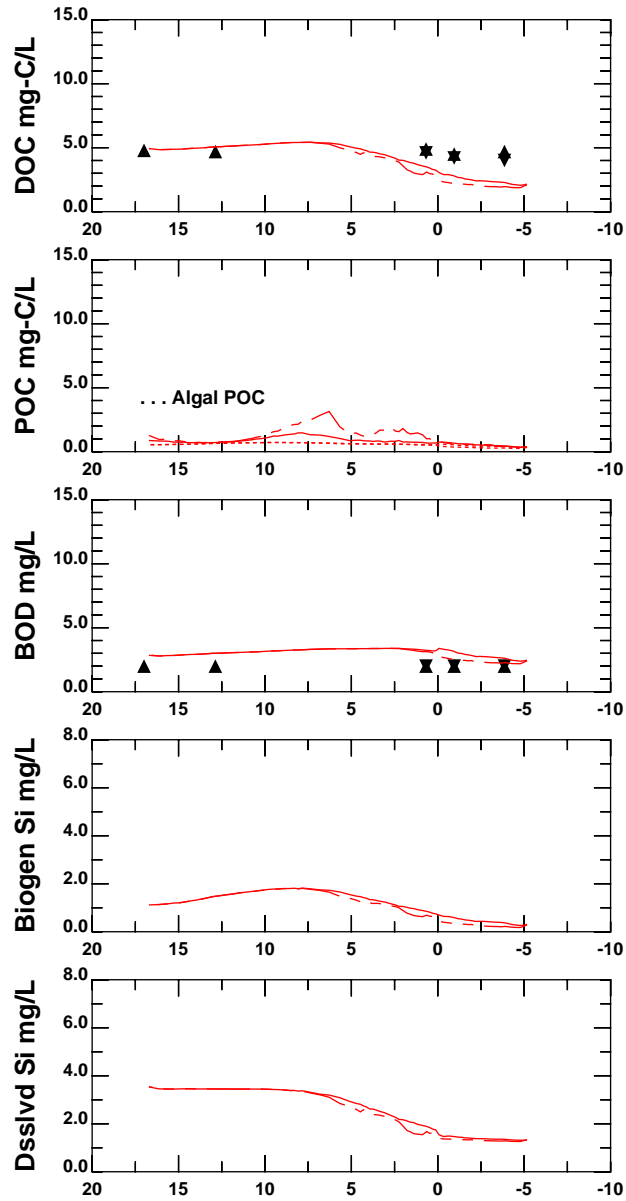
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

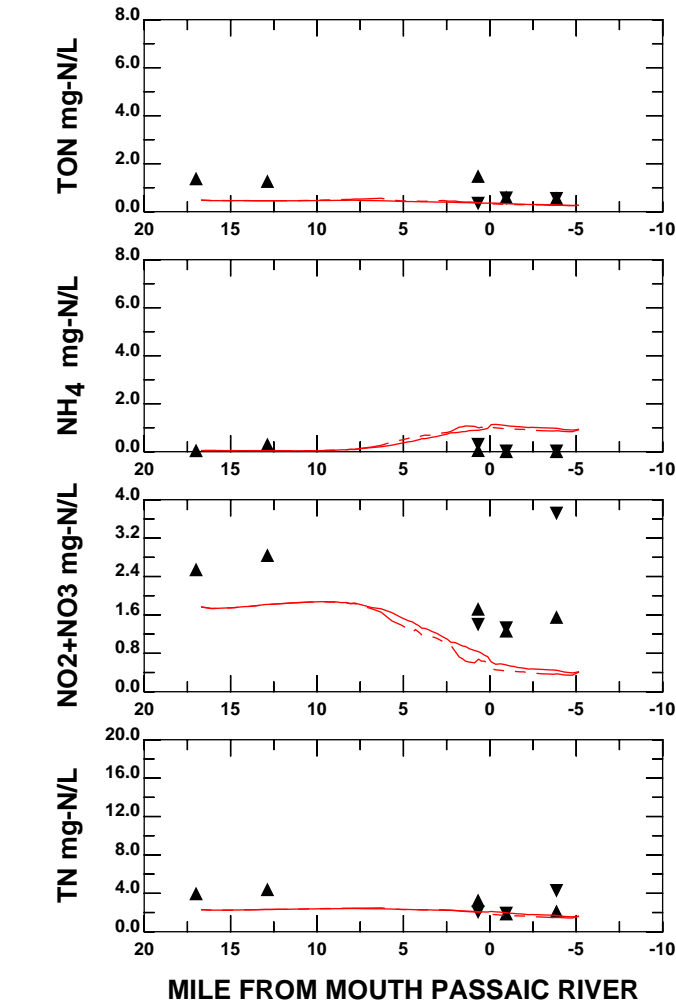




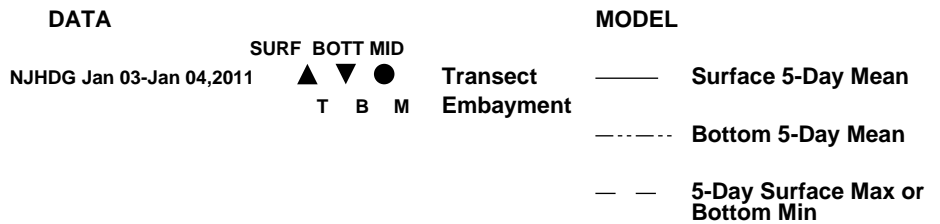
MILE FROM MOUTH PASSAIC RIVER

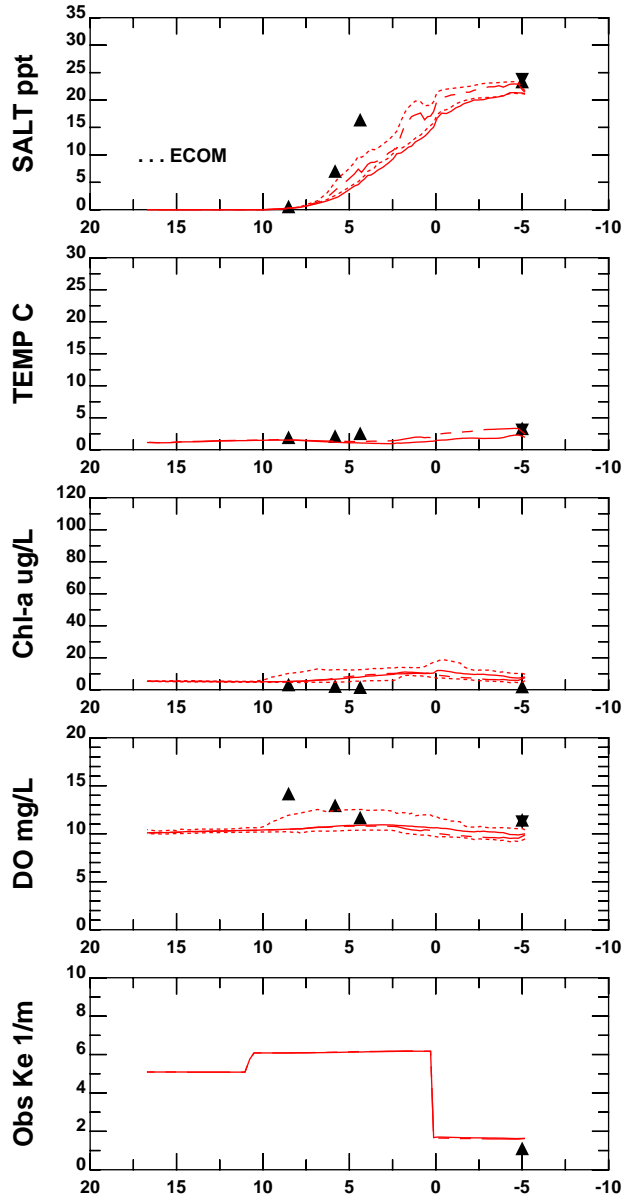
### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



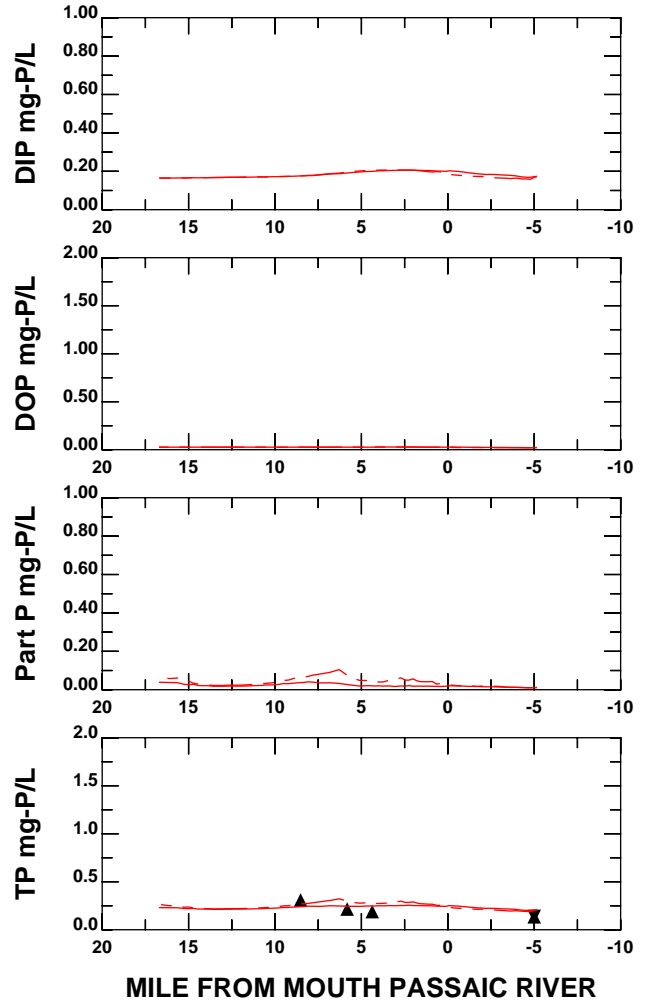
MILE FROM MOUTH PASSAIC RIVER





MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



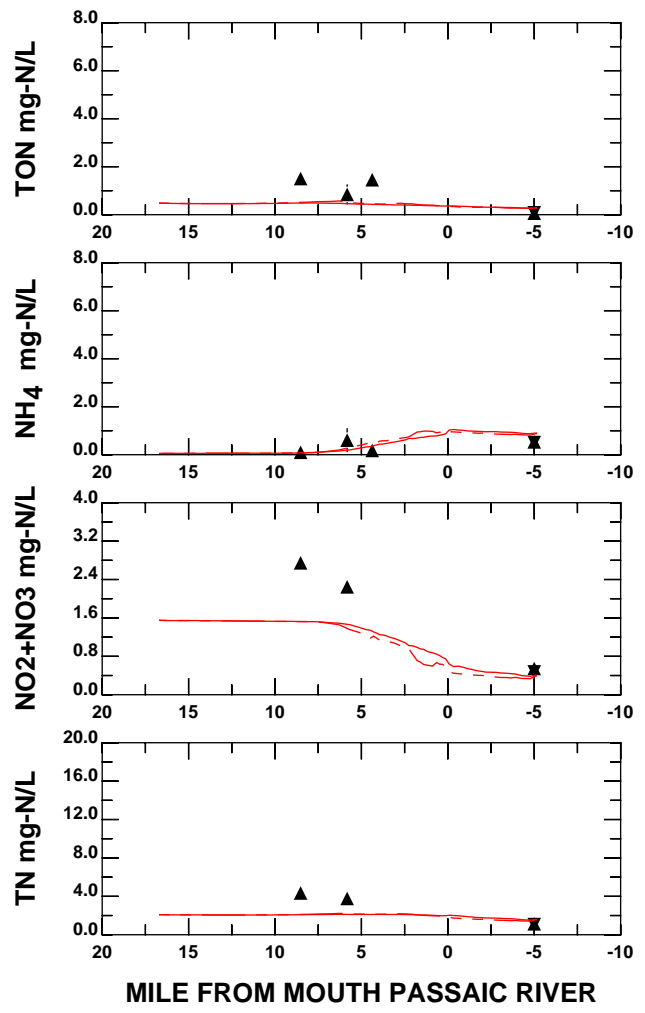
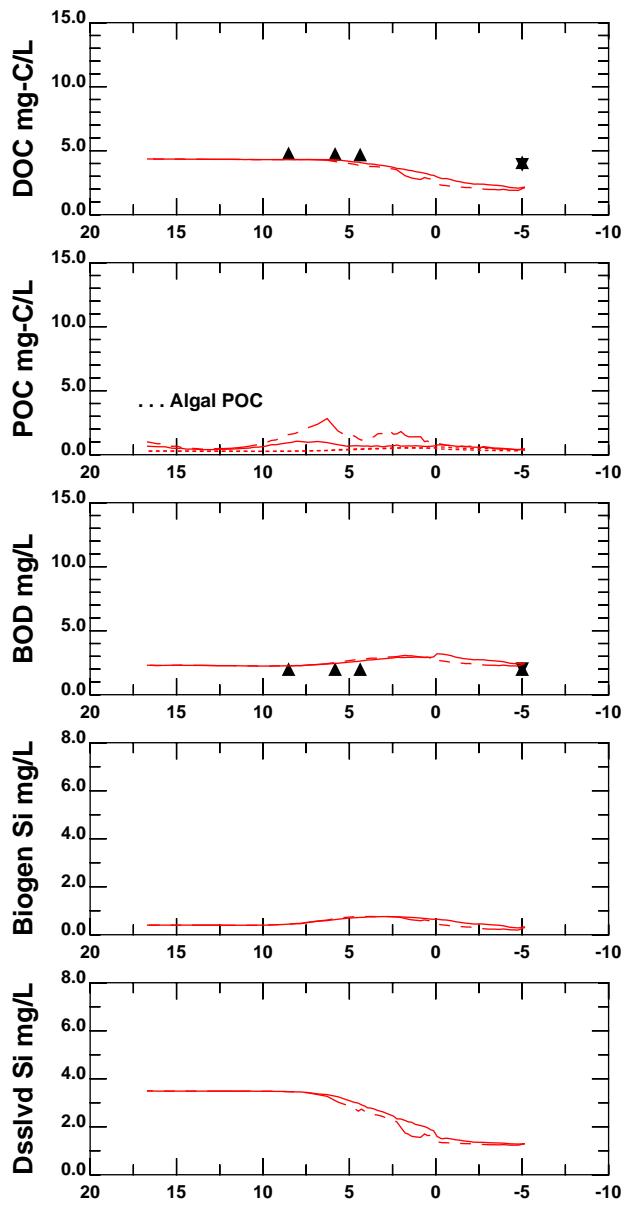
DATA  
 NJHDG Jan 06,2011

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min





DATA  
NJHDG Jan 06,2011

MODEL

SURF BOTT MID

▲ ▼ ● Transect

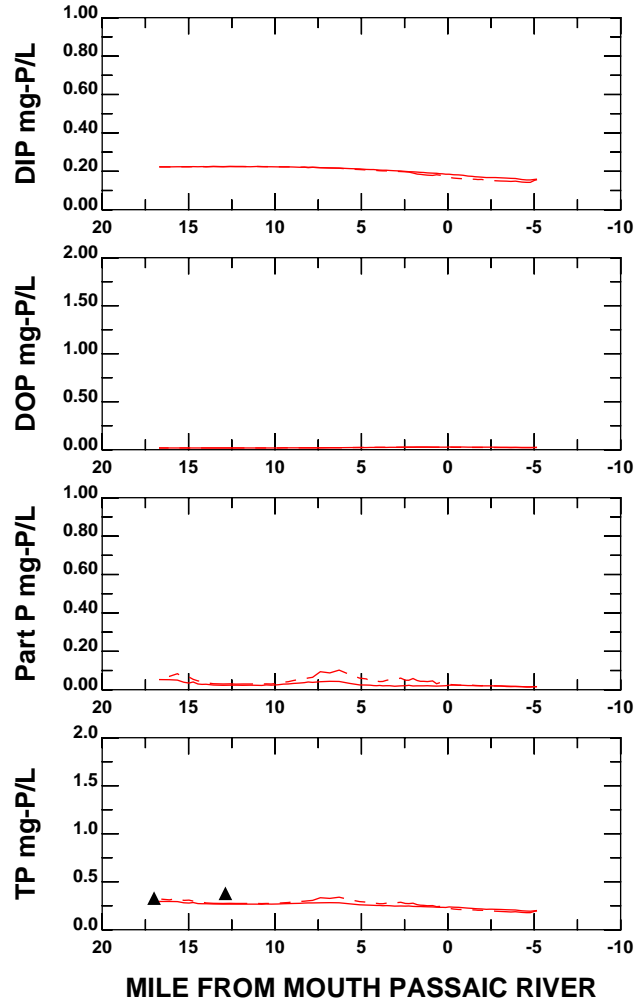
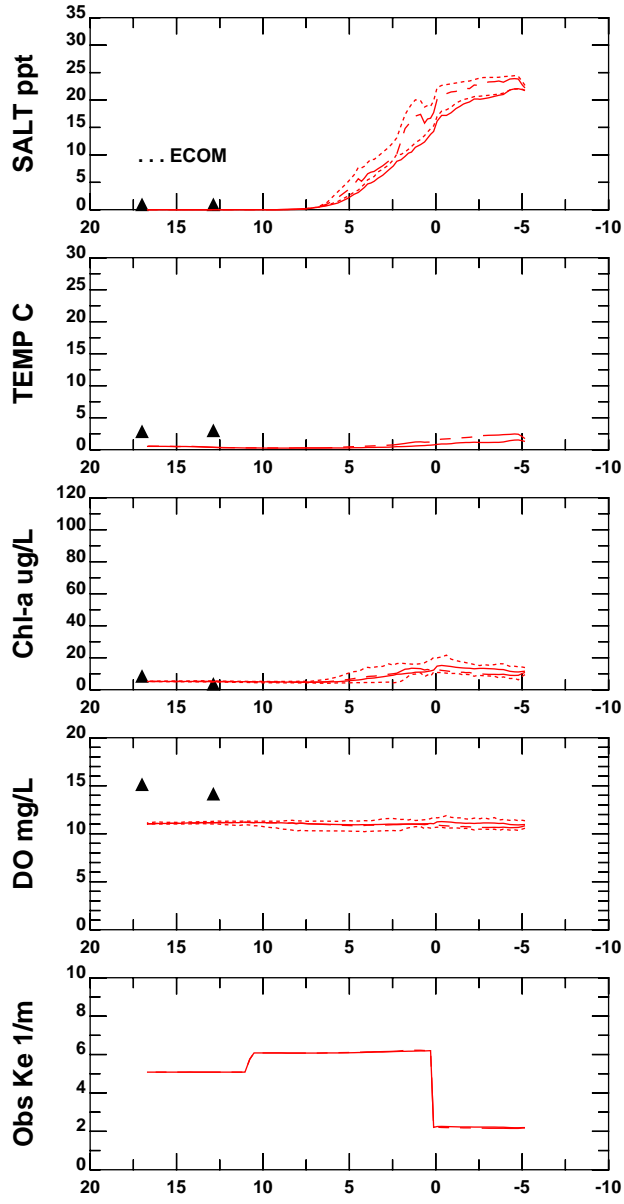
▲ ▼ ● Embayment

— Surface 5-Day Mean

- - - Bottom 5-Day Mean

- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



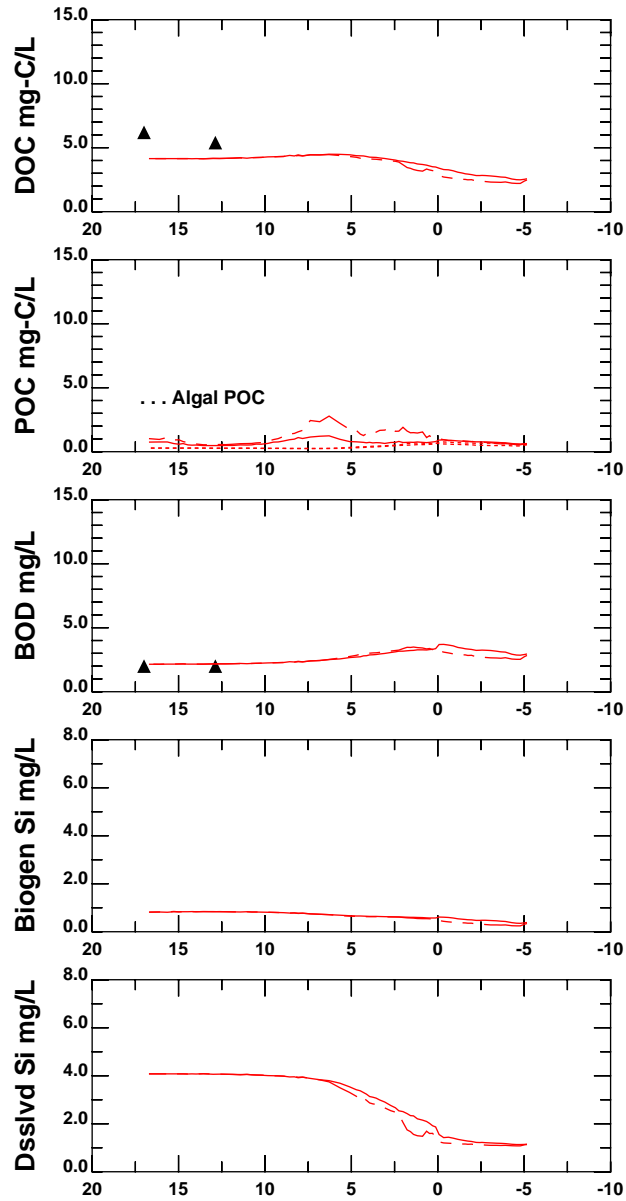
**DATA**  
NJHDG Feb 08, 2011

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

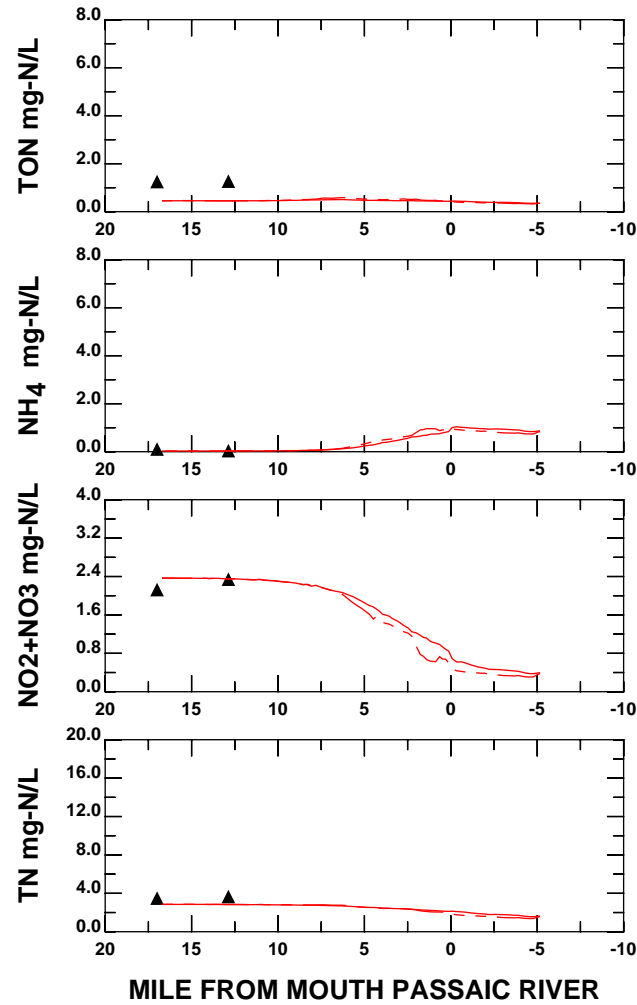
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Feb 08,2011

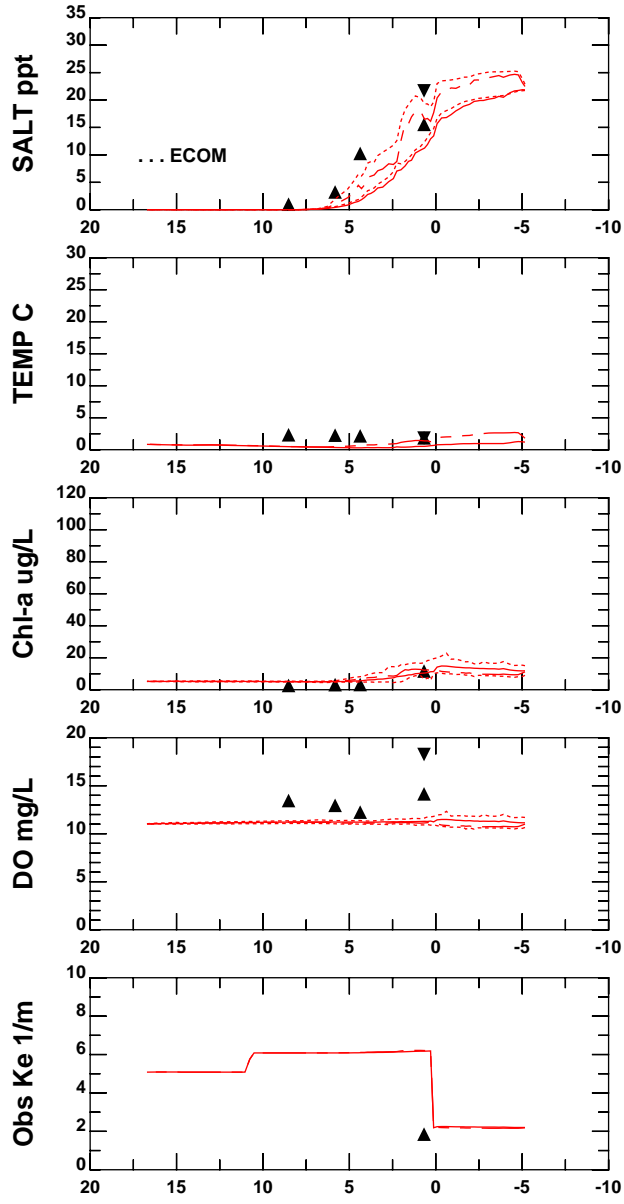
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

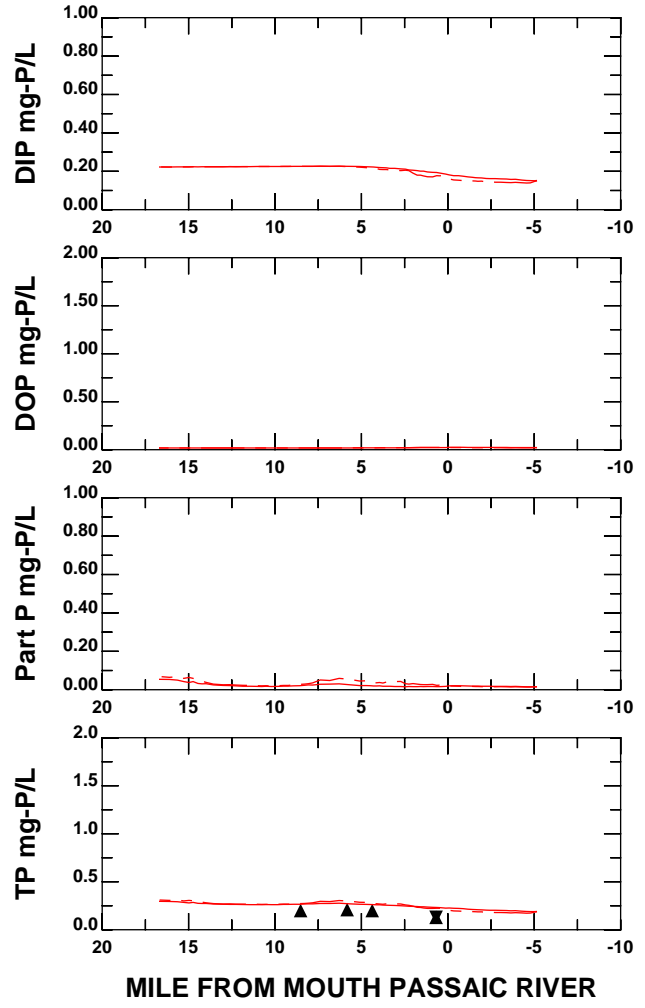
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011

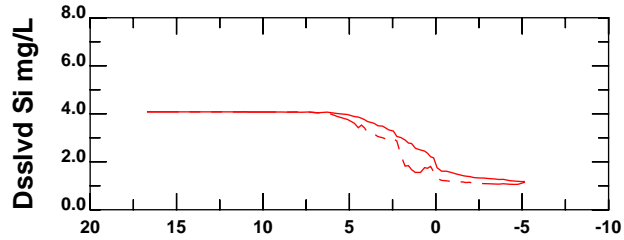
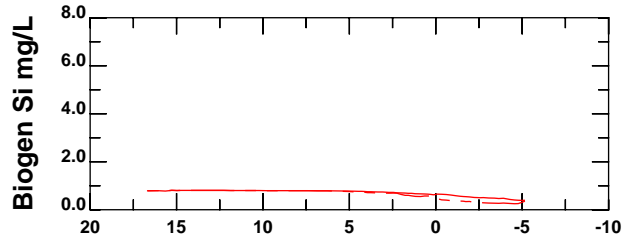
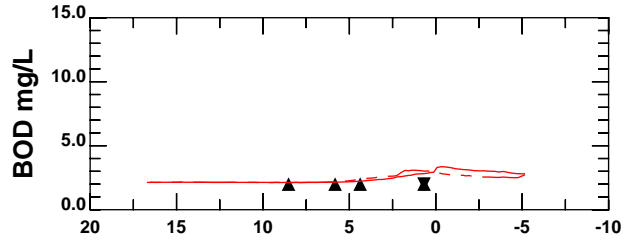
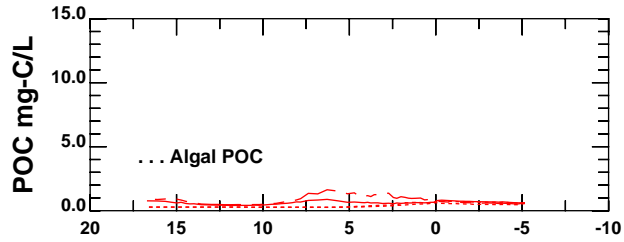
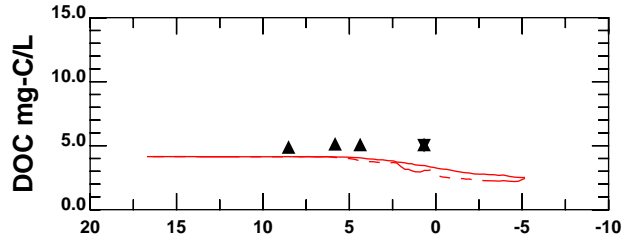


DATA  
NJHDG Feb 09,2011

MODEL

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

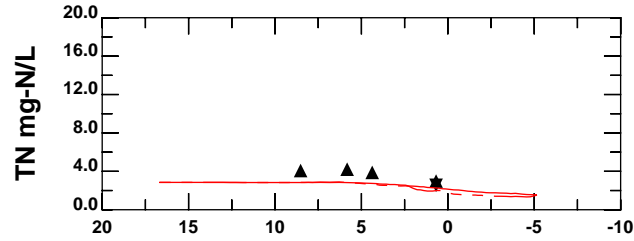
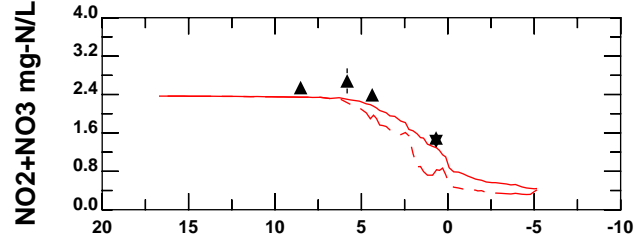
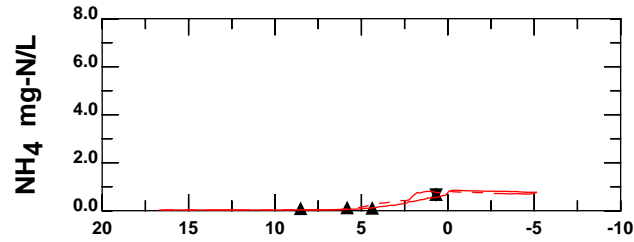
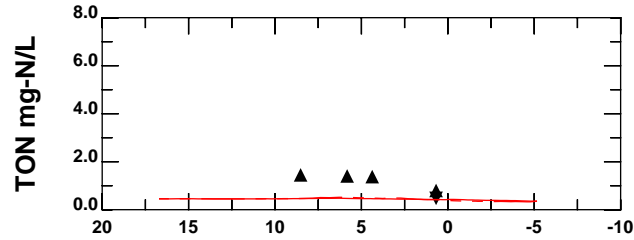
— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHGD Feb 09, 2011

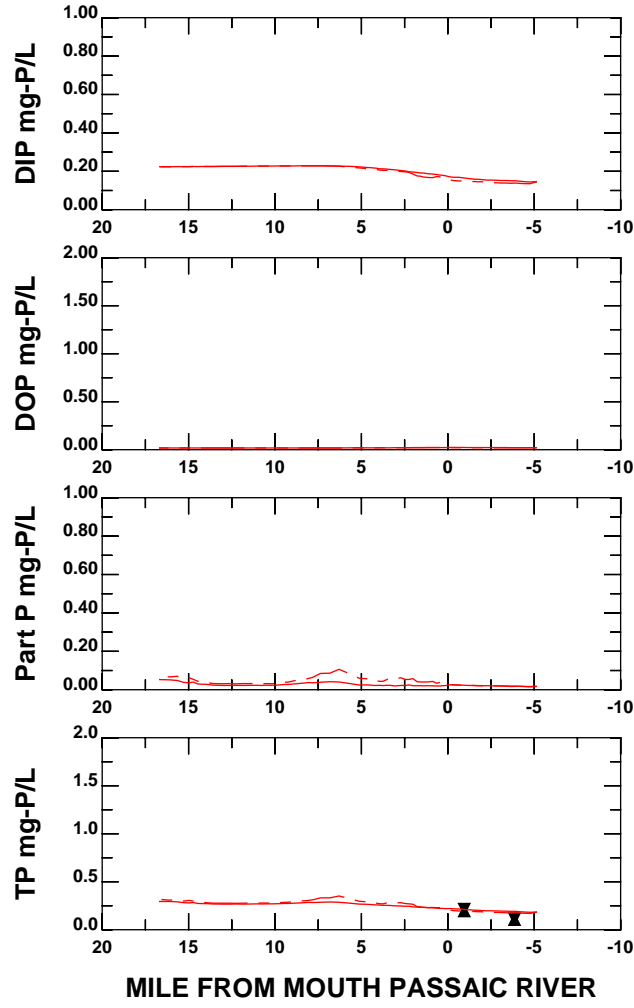
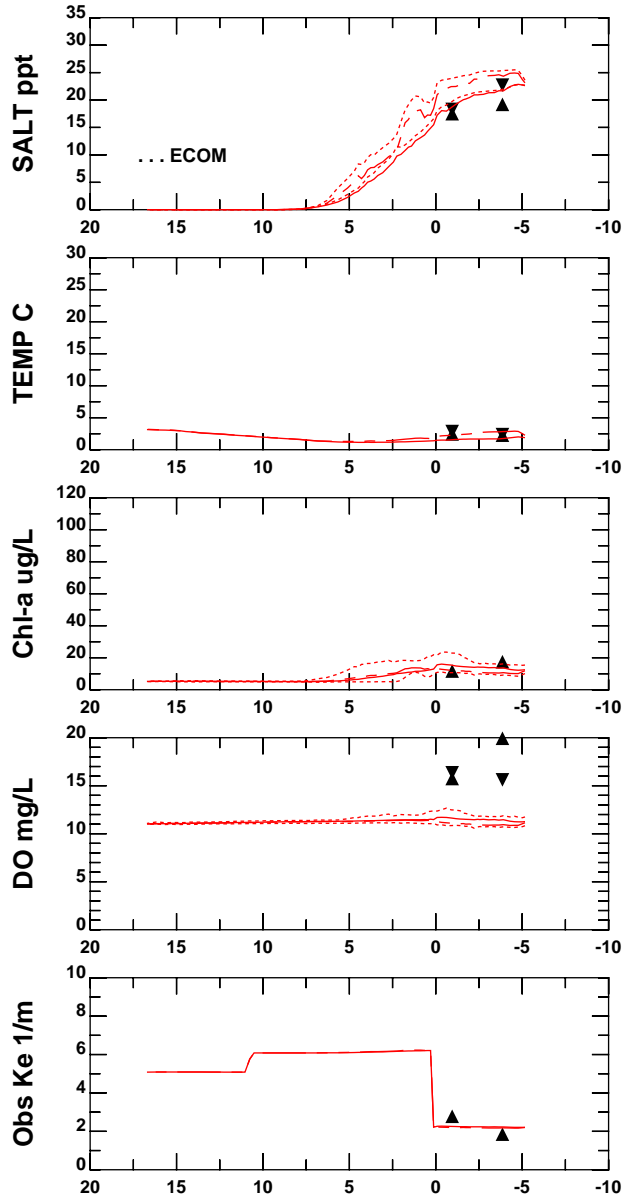
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min



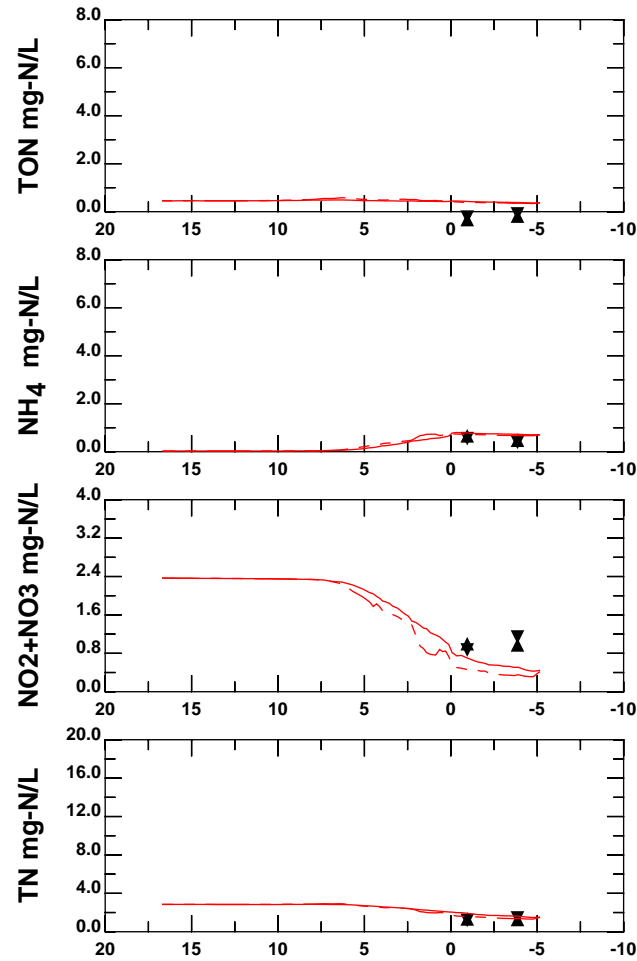
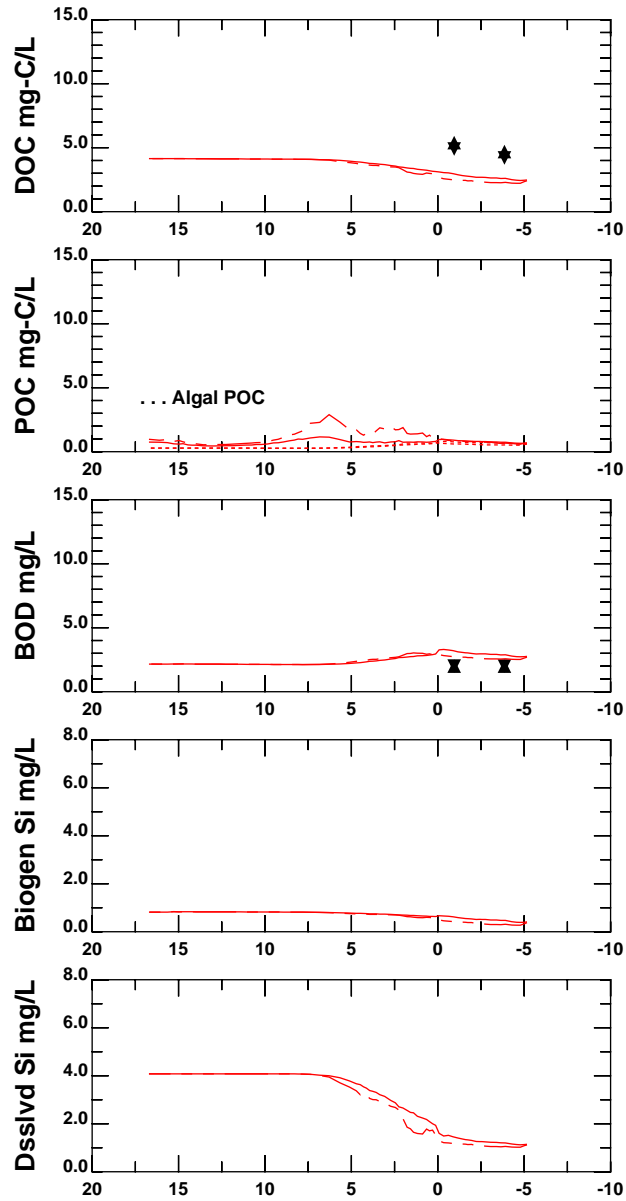
**DATA**  
NJHDG Feb 14, 2011

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**DATA**

NJHGD Feb 14, 2011

SURF BOTT MID

▲ ▼ ●  
T B M

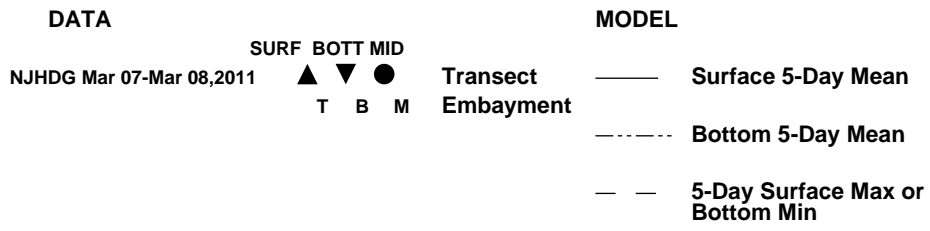
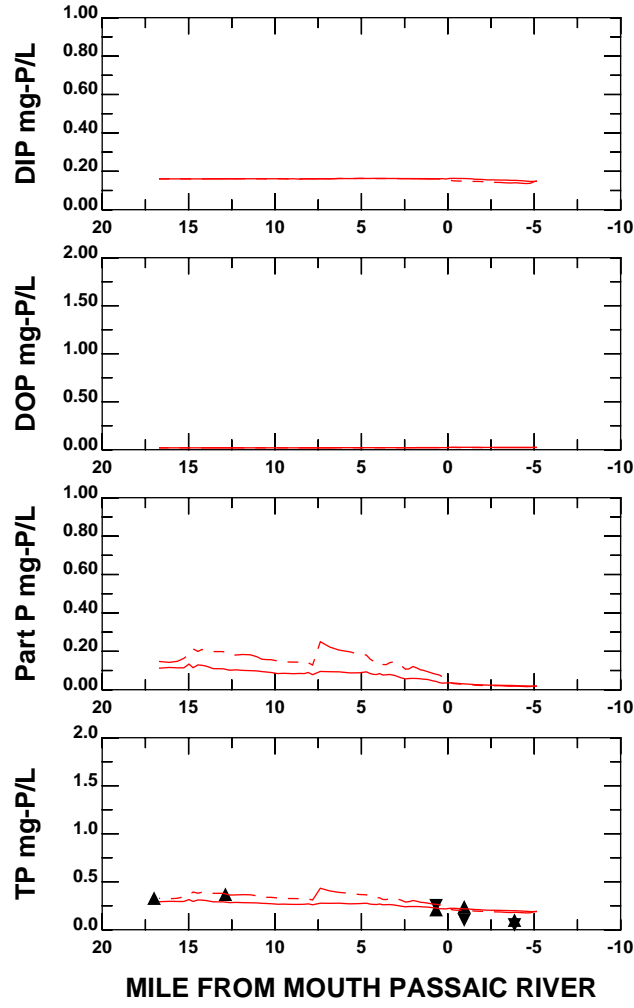
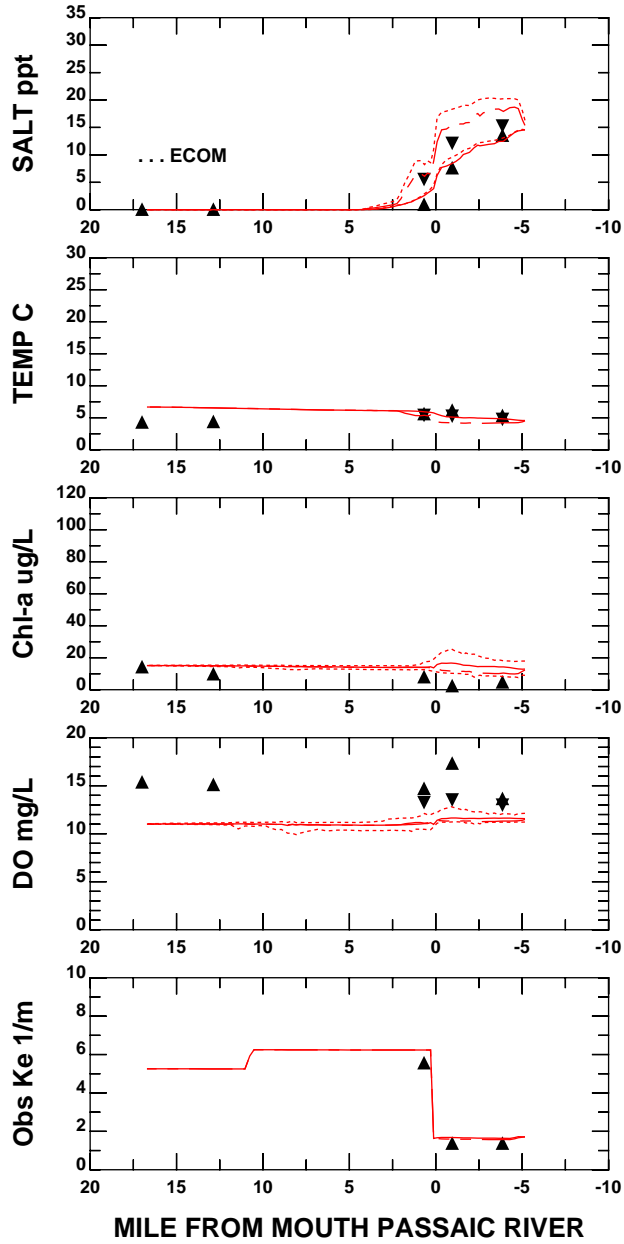
Transect  
Embayment

**MODEL**

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - - 5-Day Surface Max or Bottom Min

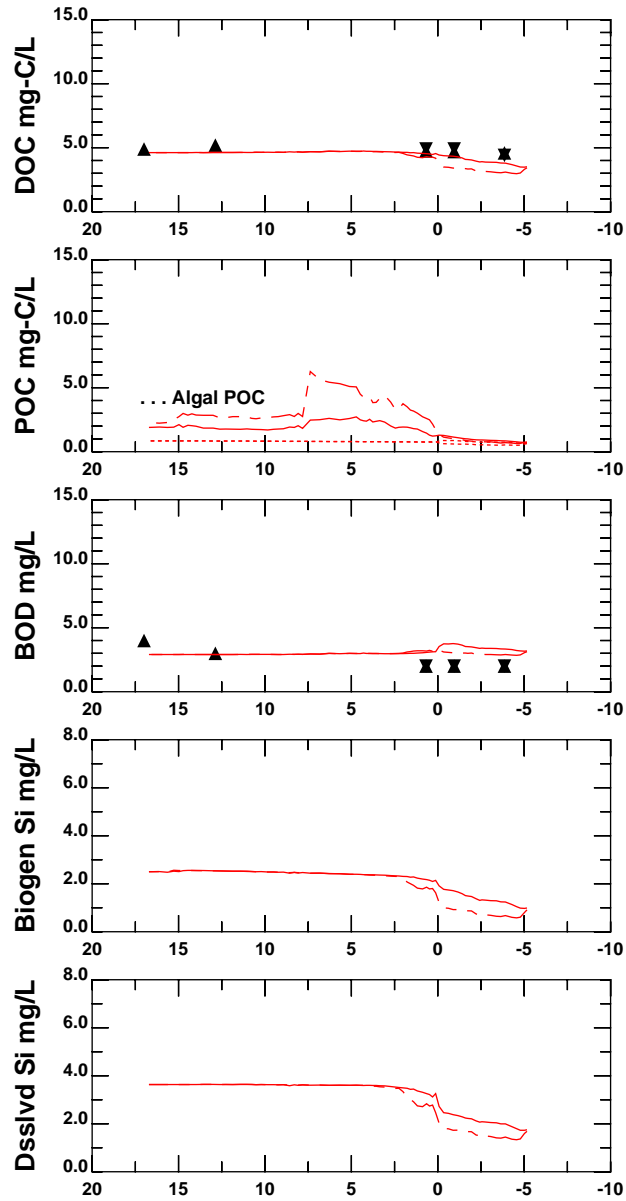
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 1011

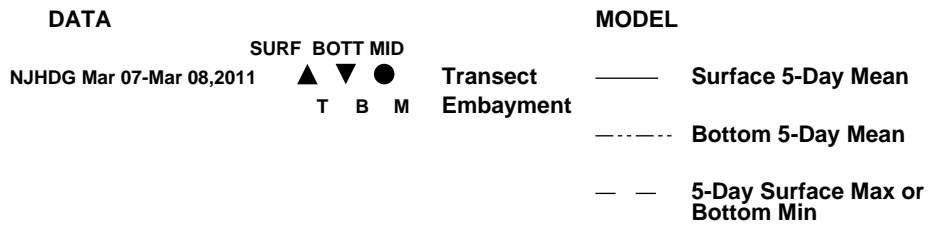
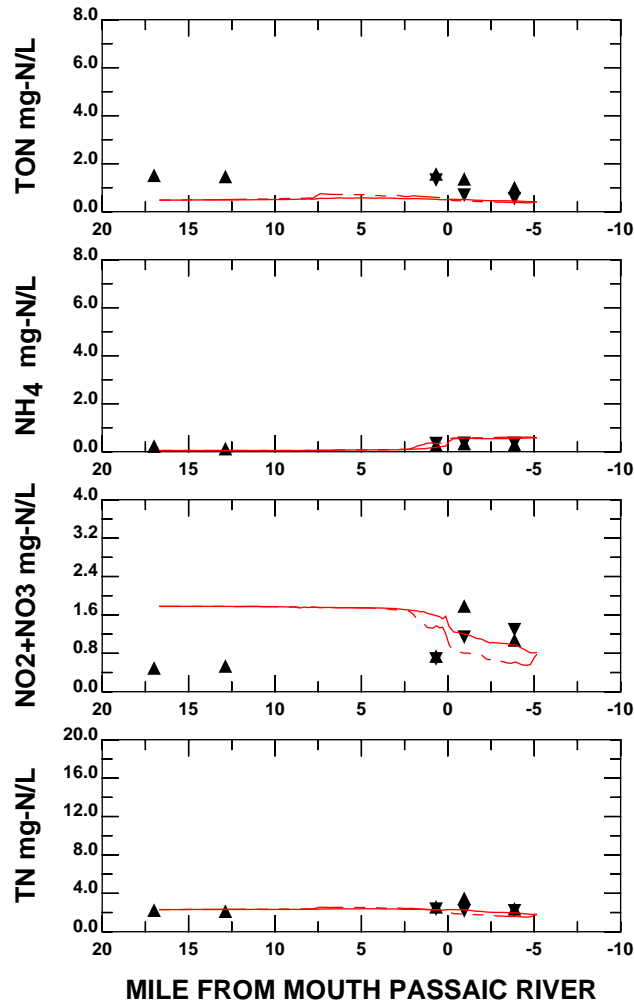


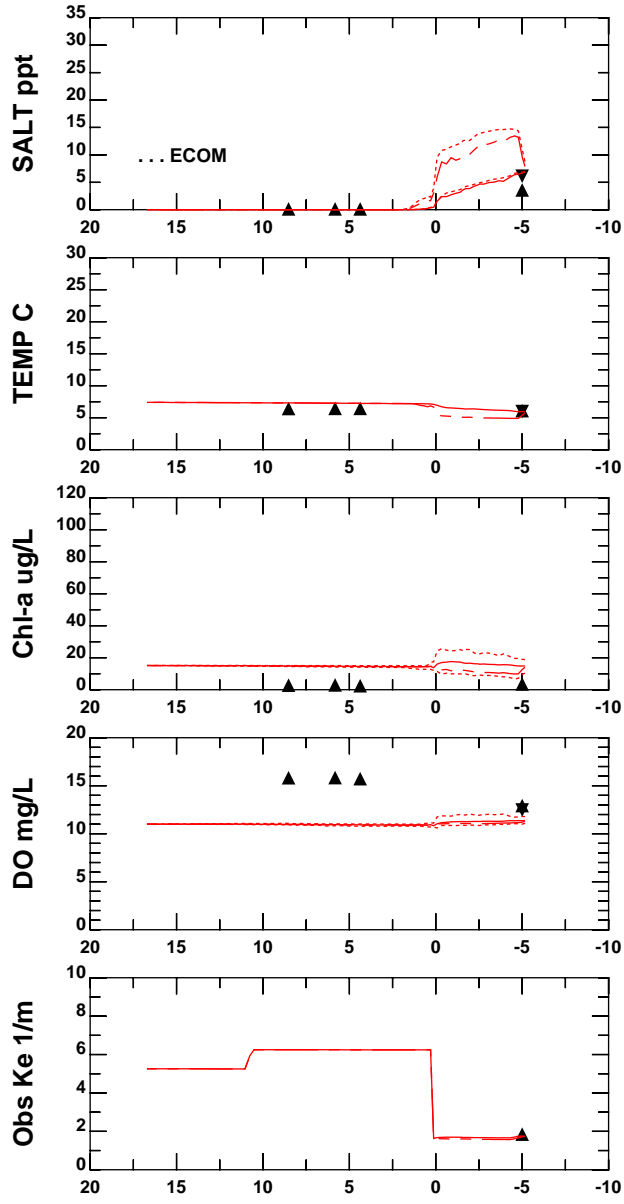
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

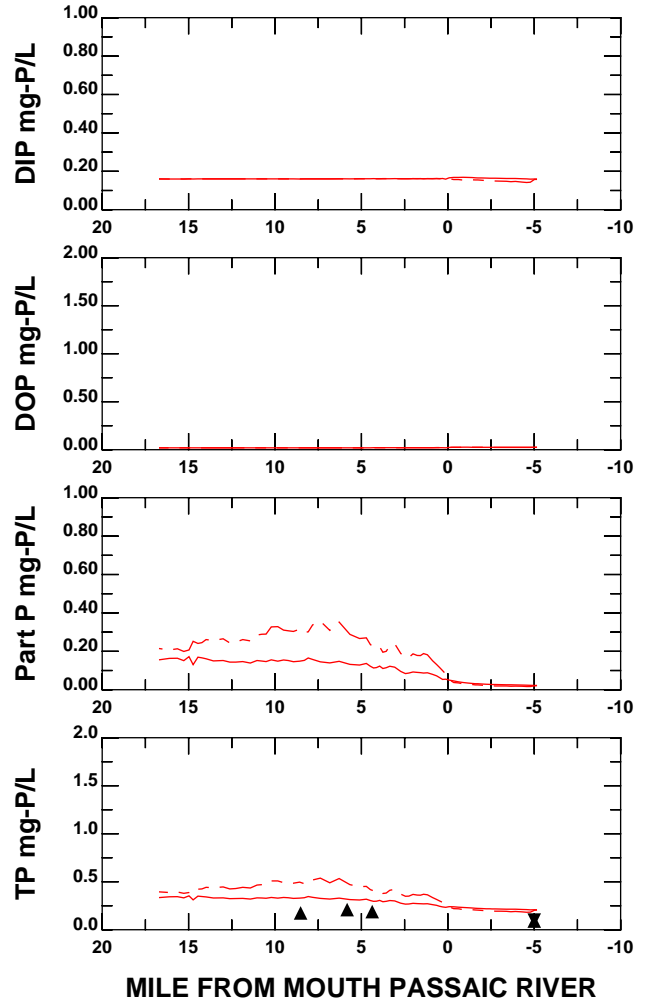




MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

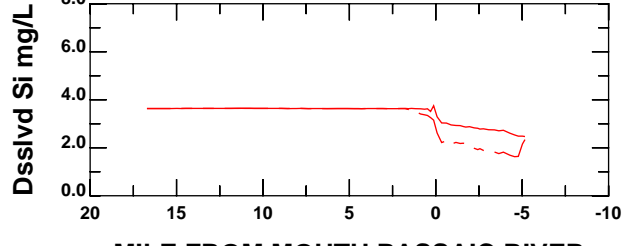
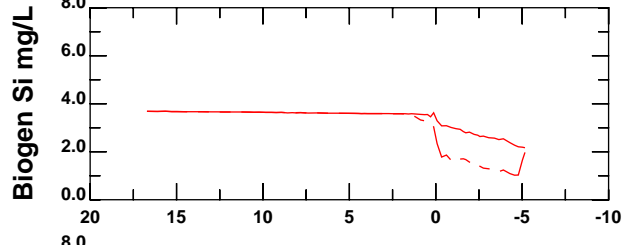
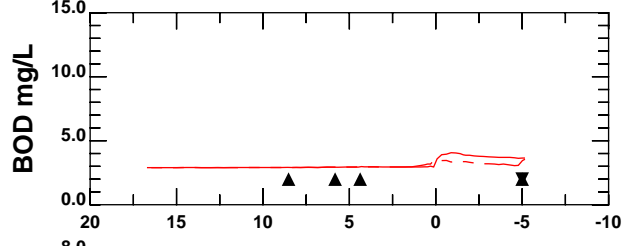
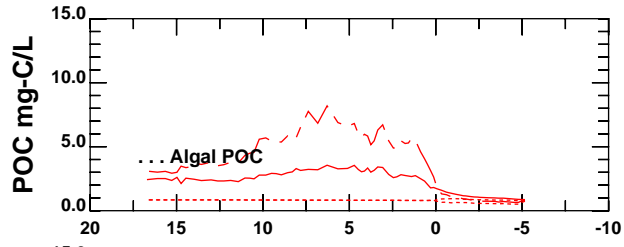
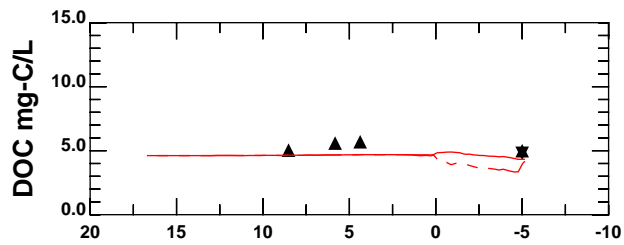
DATA  
NJHDG Mar 14,2011

SURF BOTT MID  
▲ ▼ ●  
T B M

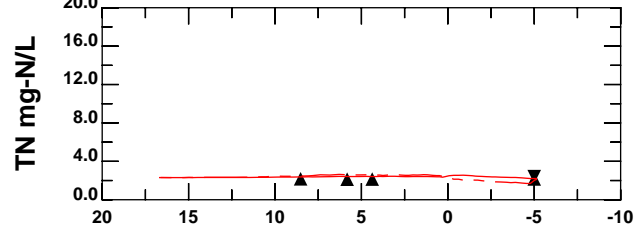
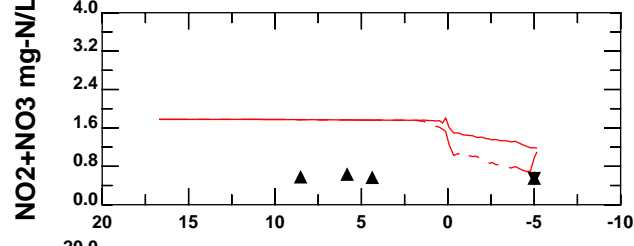
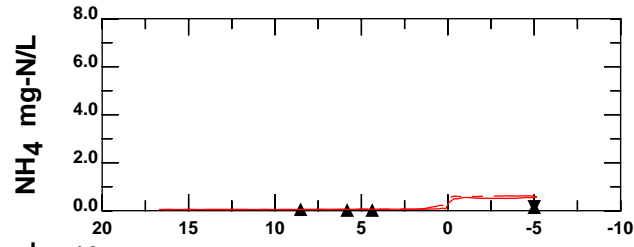
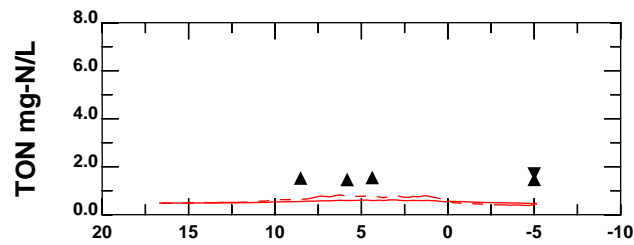
Transect  
Embayment

MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

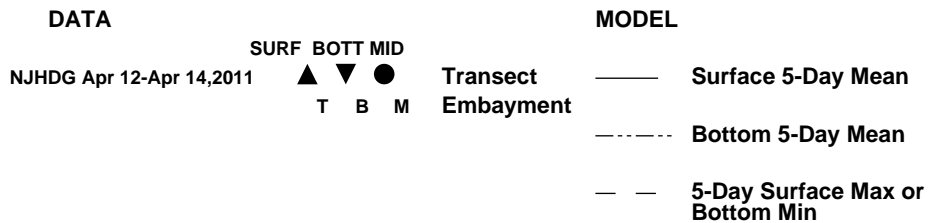
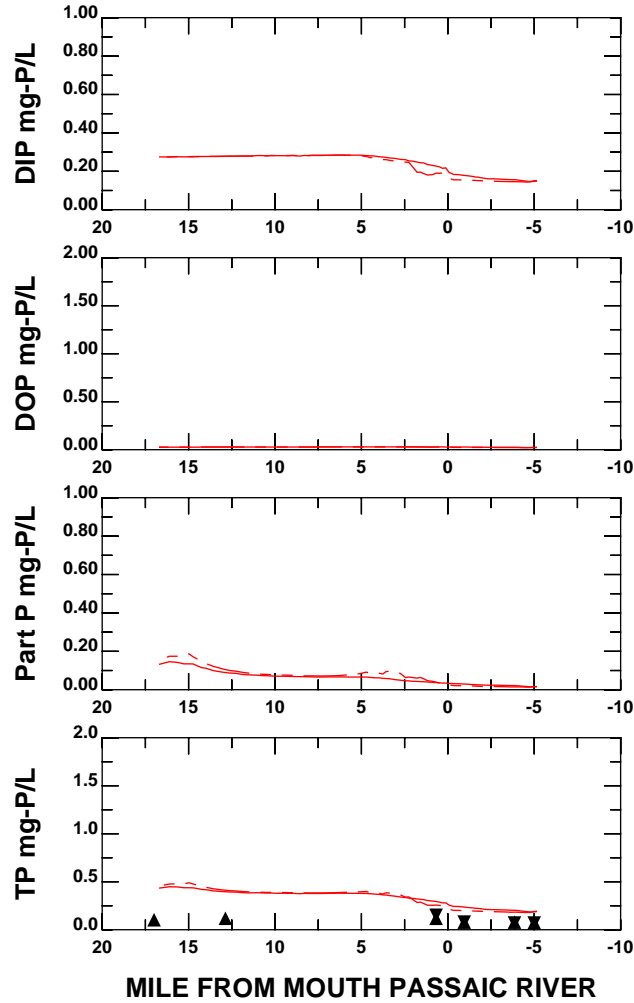
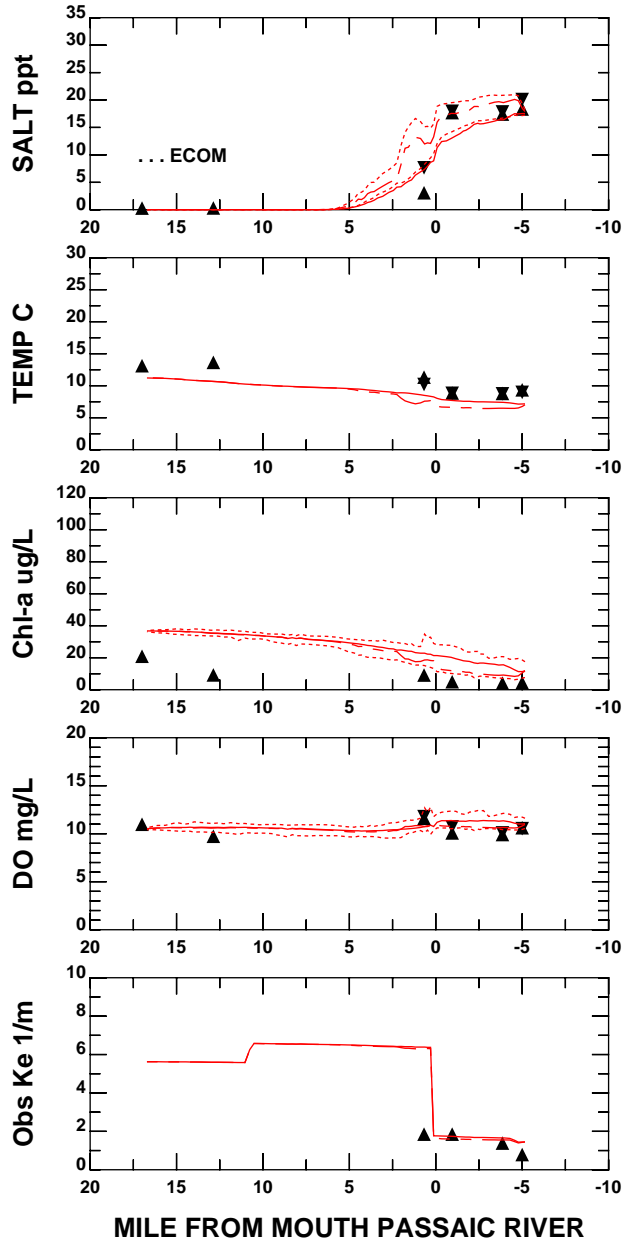
DATA  
NJHDG Mar 14, 2011

MODEL

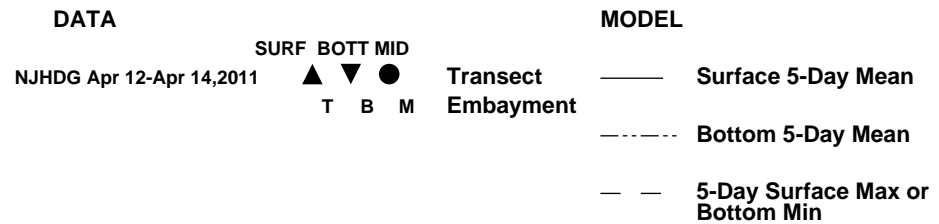
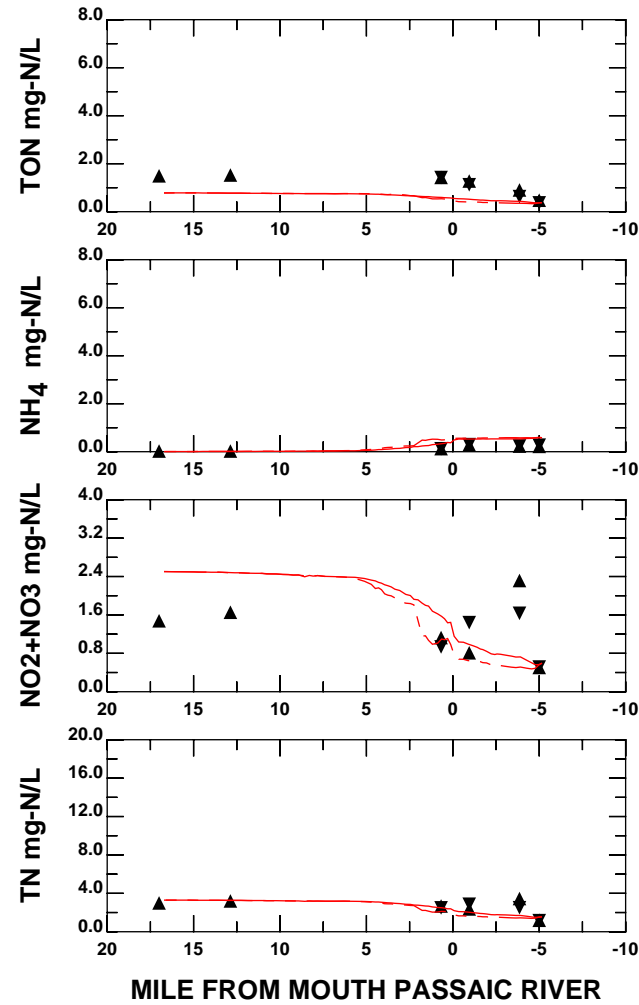
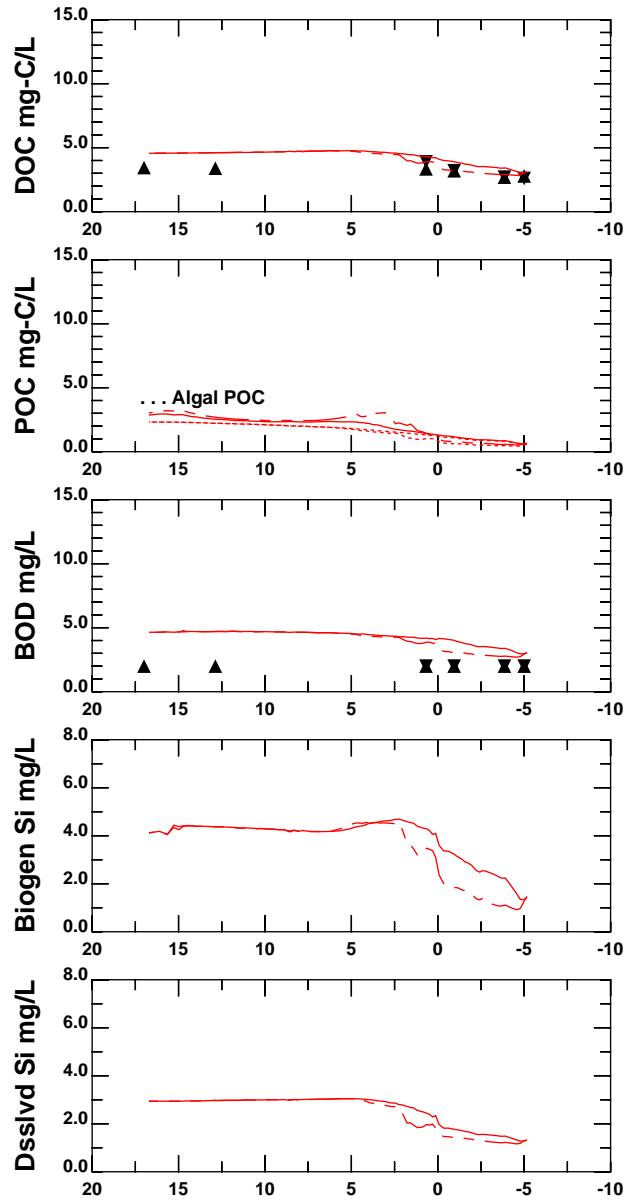
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

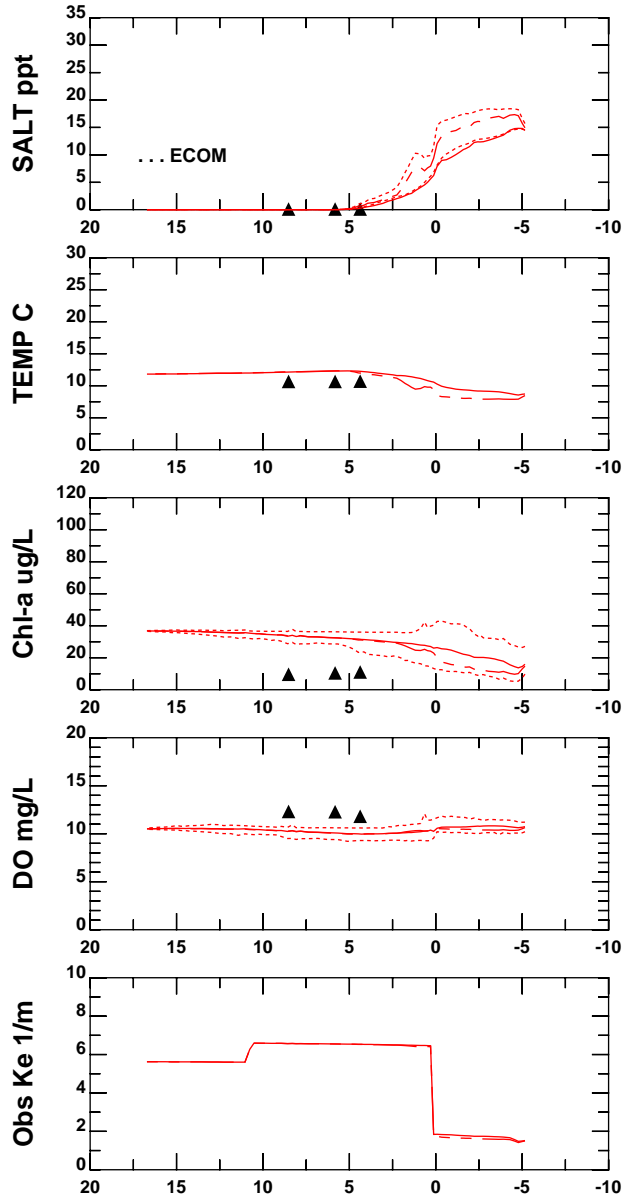
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



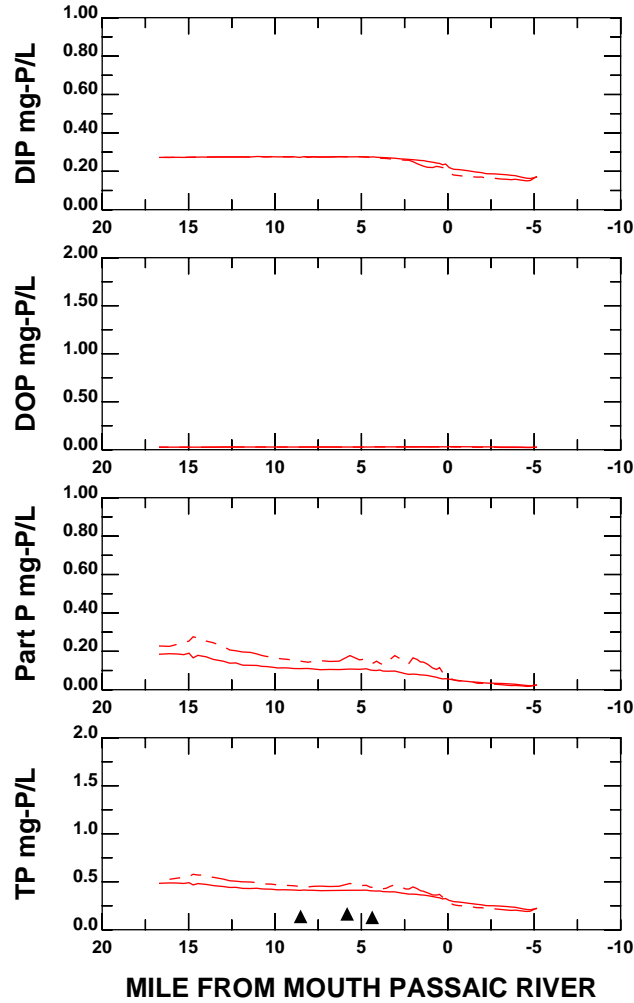
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011

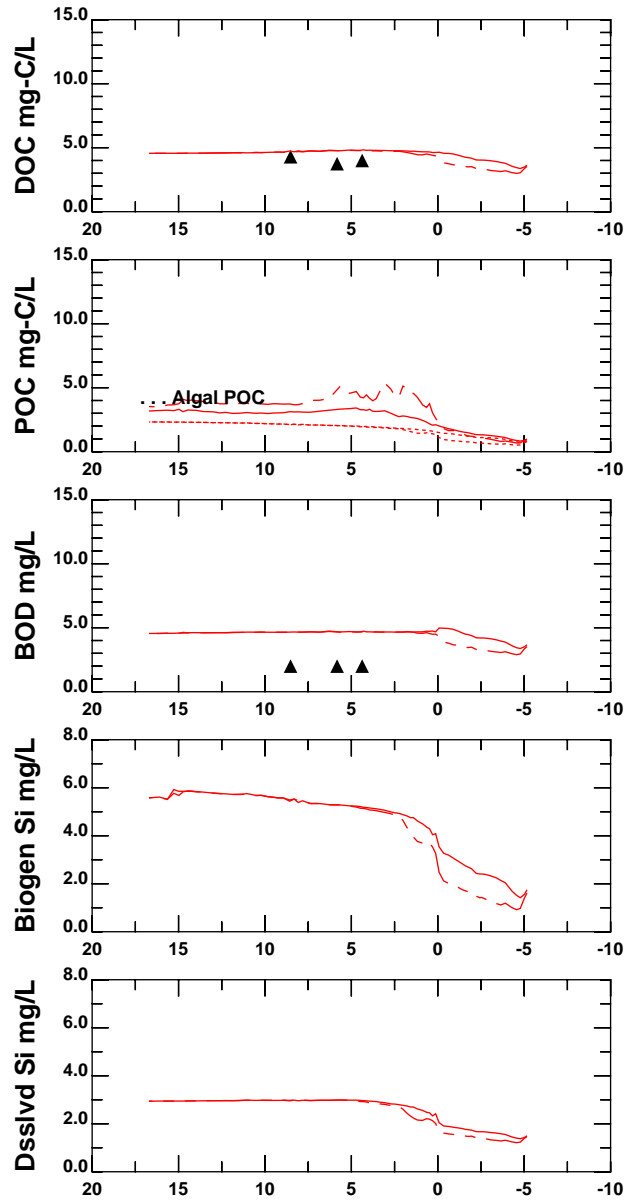


DATA  
NJHDG Apr 18,2011

MODEL

SURF BOTT MID  
▲ ▼ ●  
T B M  
Transect  
Embayment

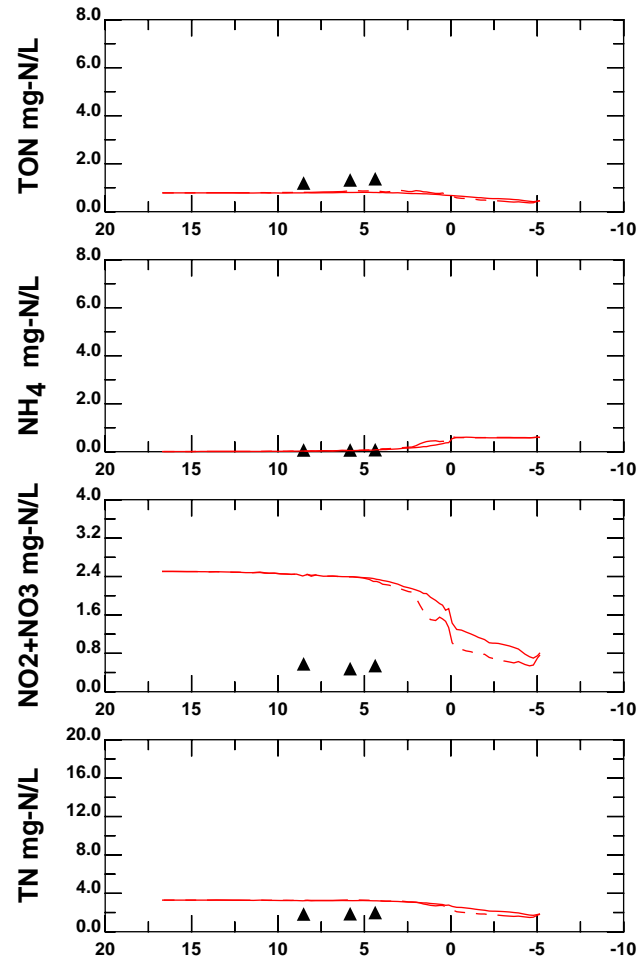
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

#### DATA

NJHDG Apr 18,2011

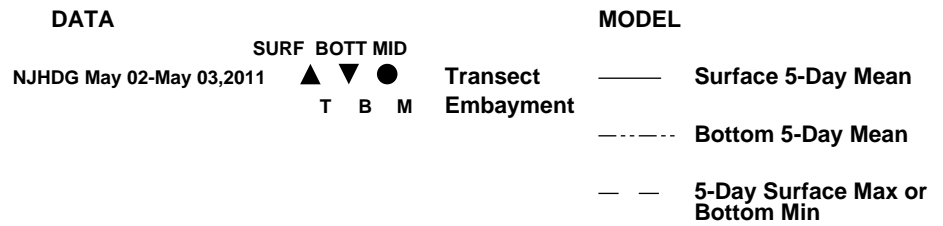
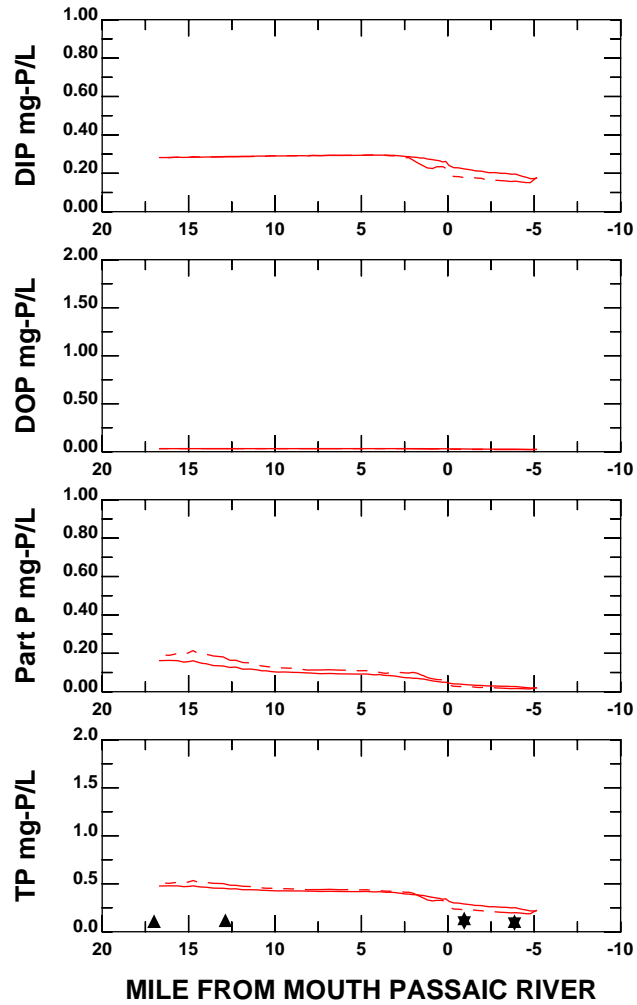
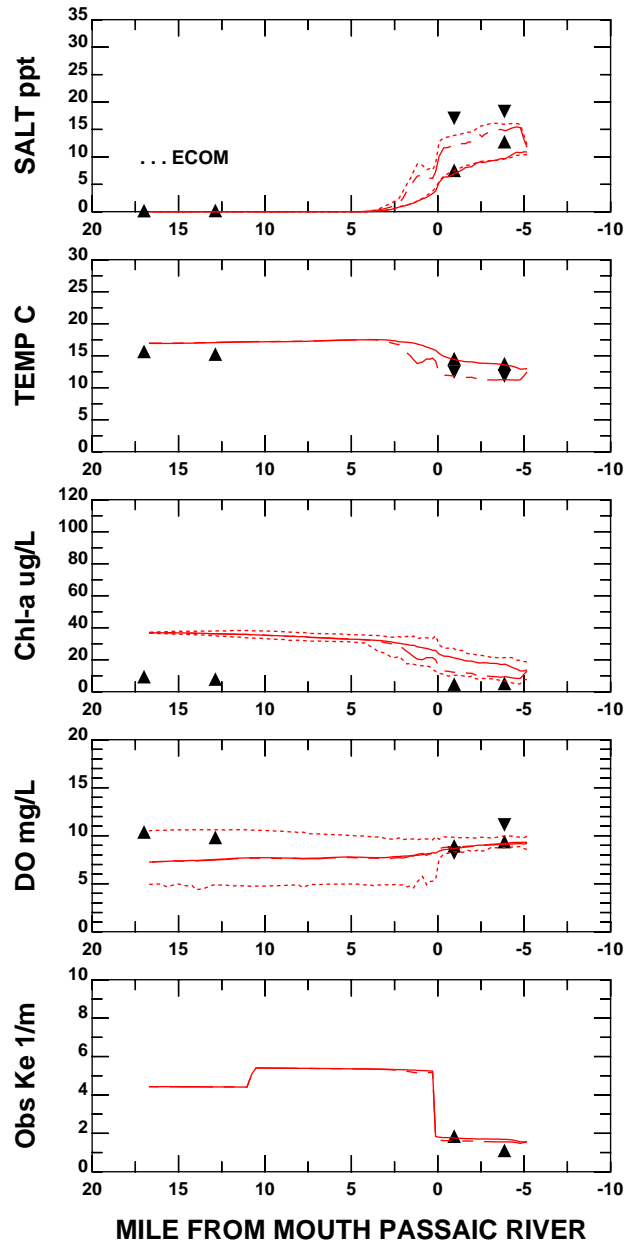
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

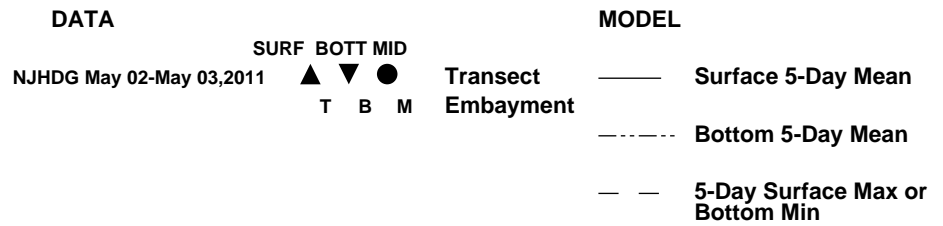
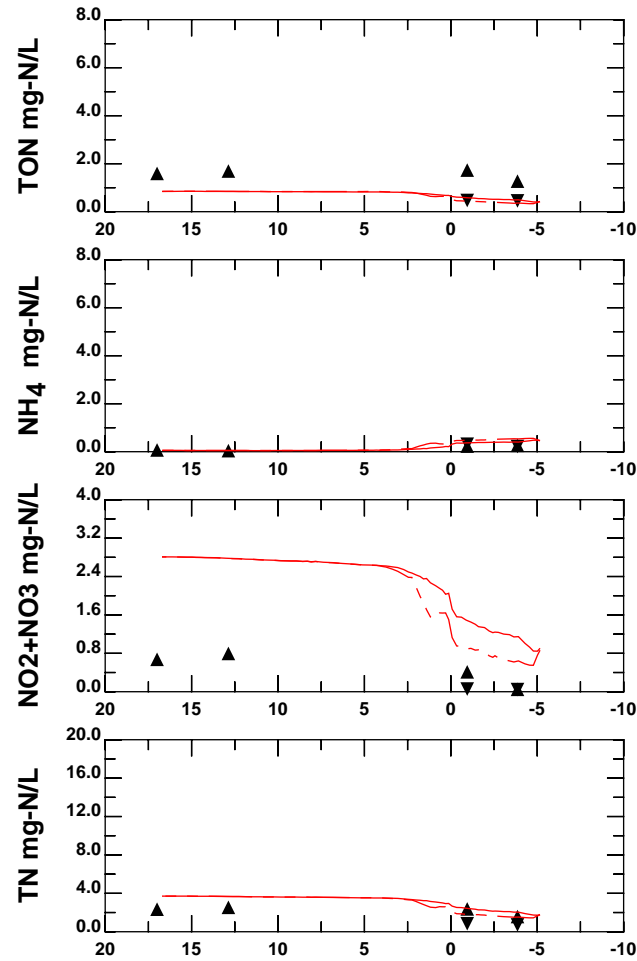
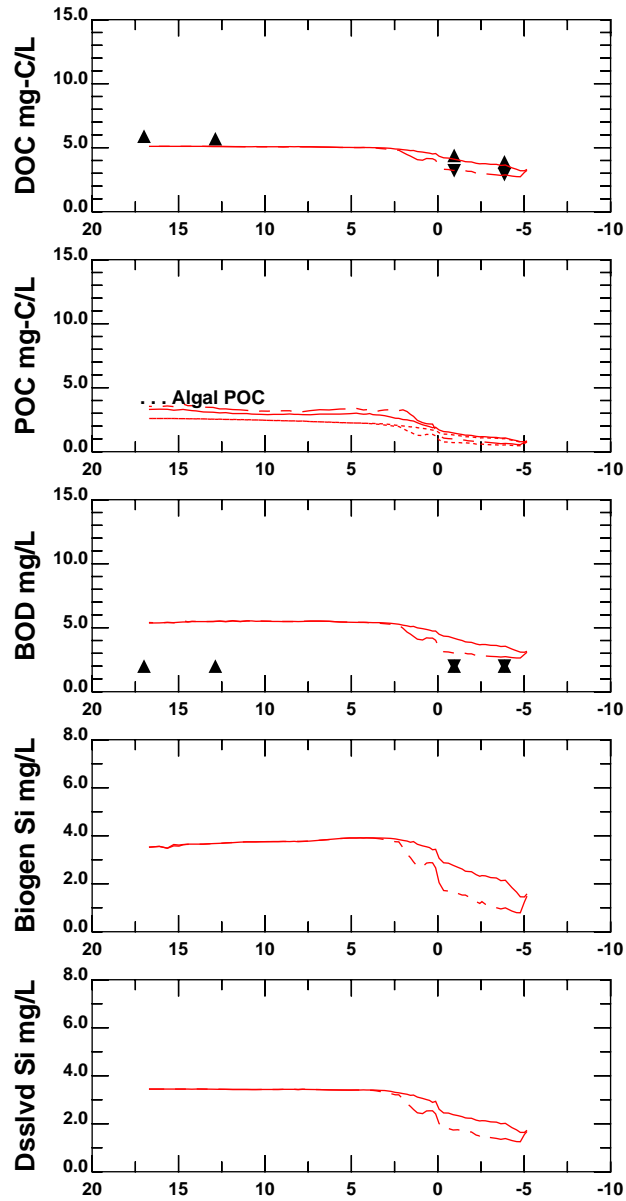
#### MODEL

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

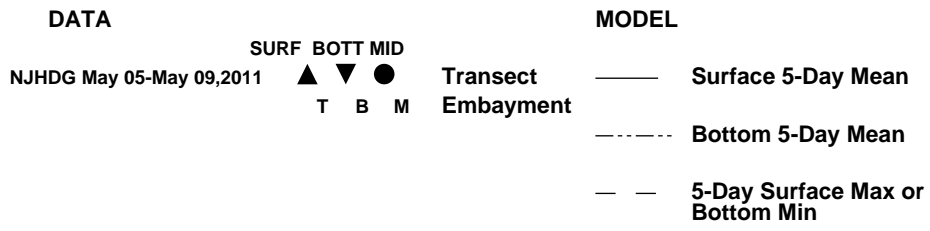
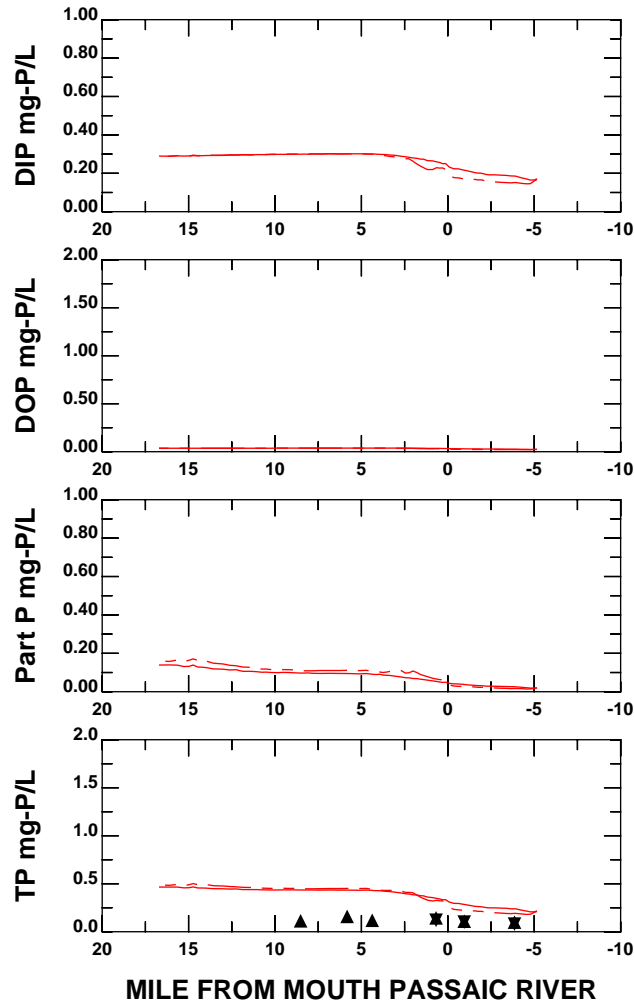
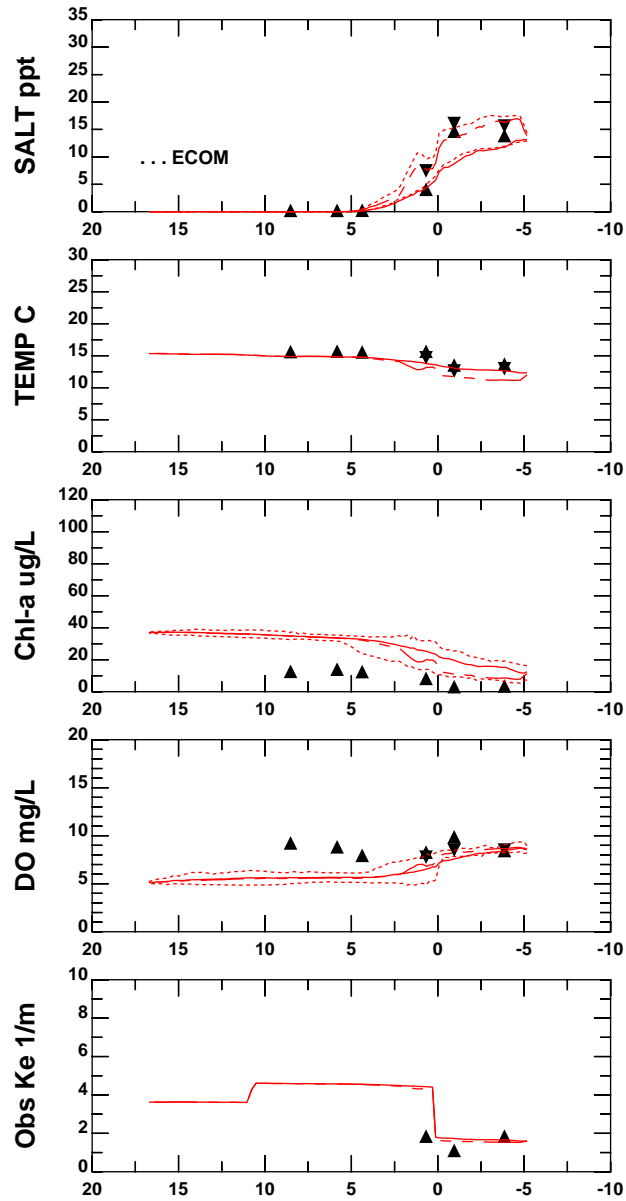


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

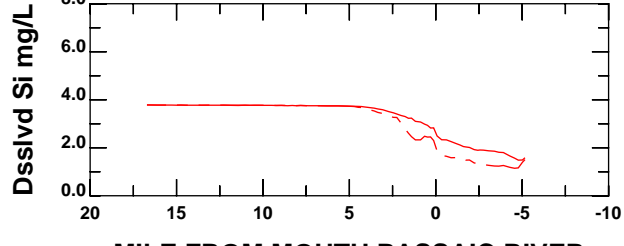
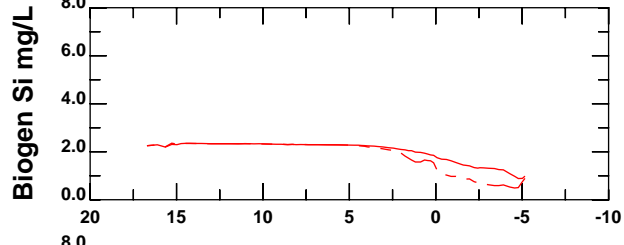
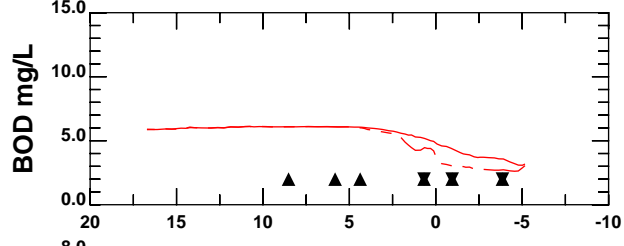
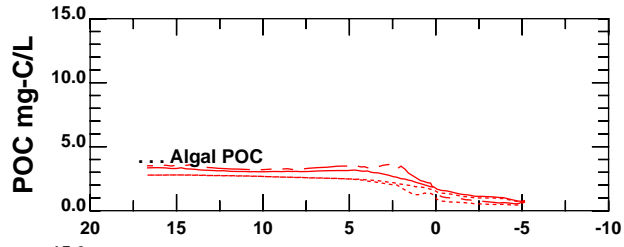
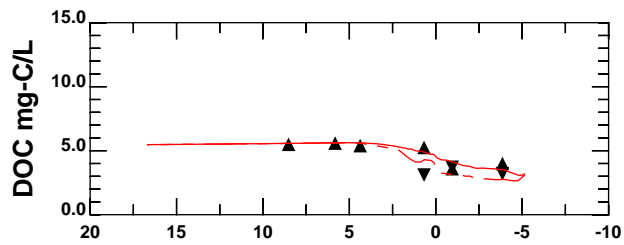




**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



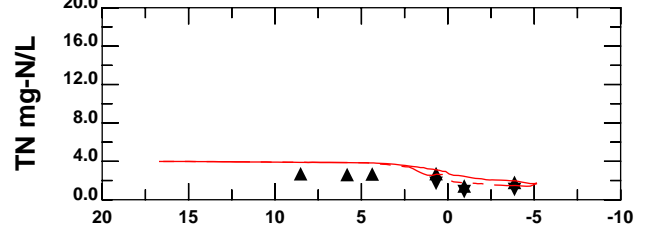
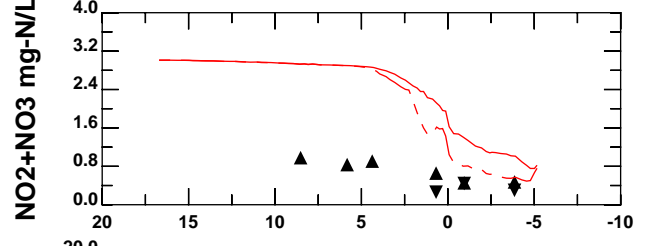
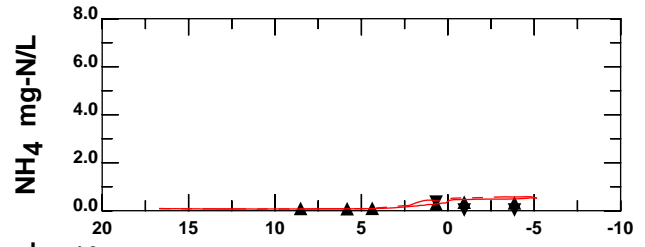
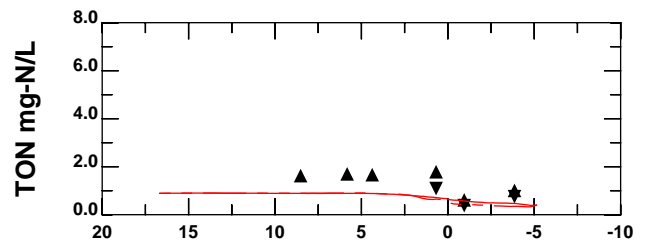
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



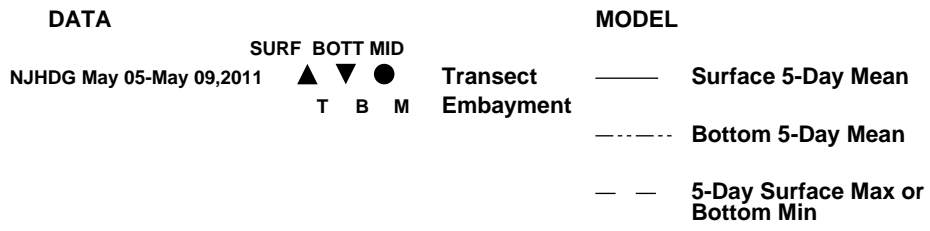
MILE FROM MOUTH PASSAIC RIVER

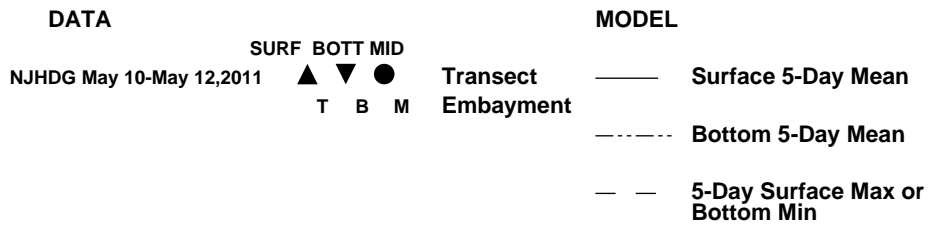
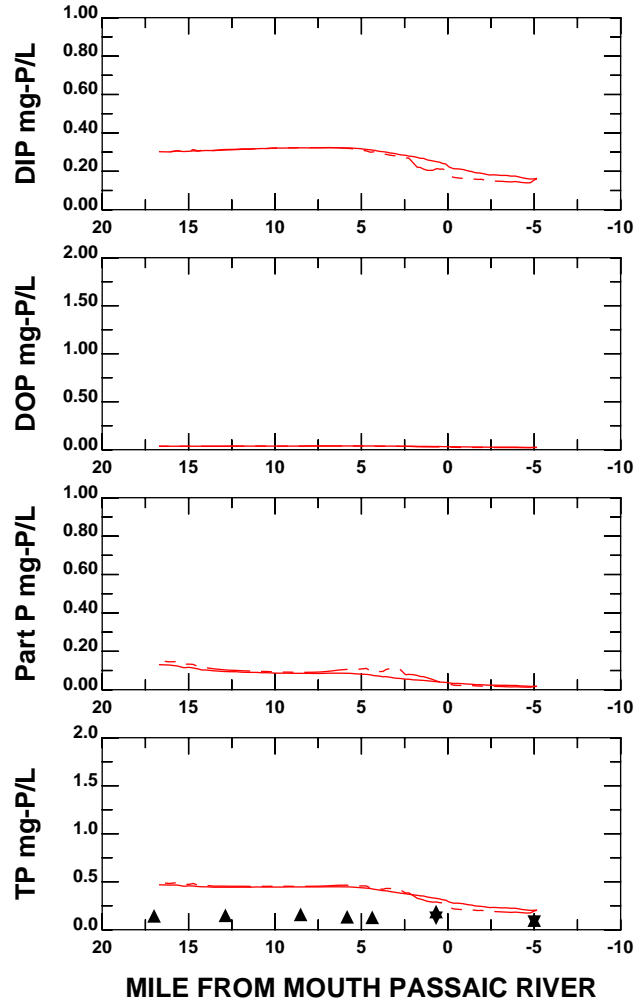
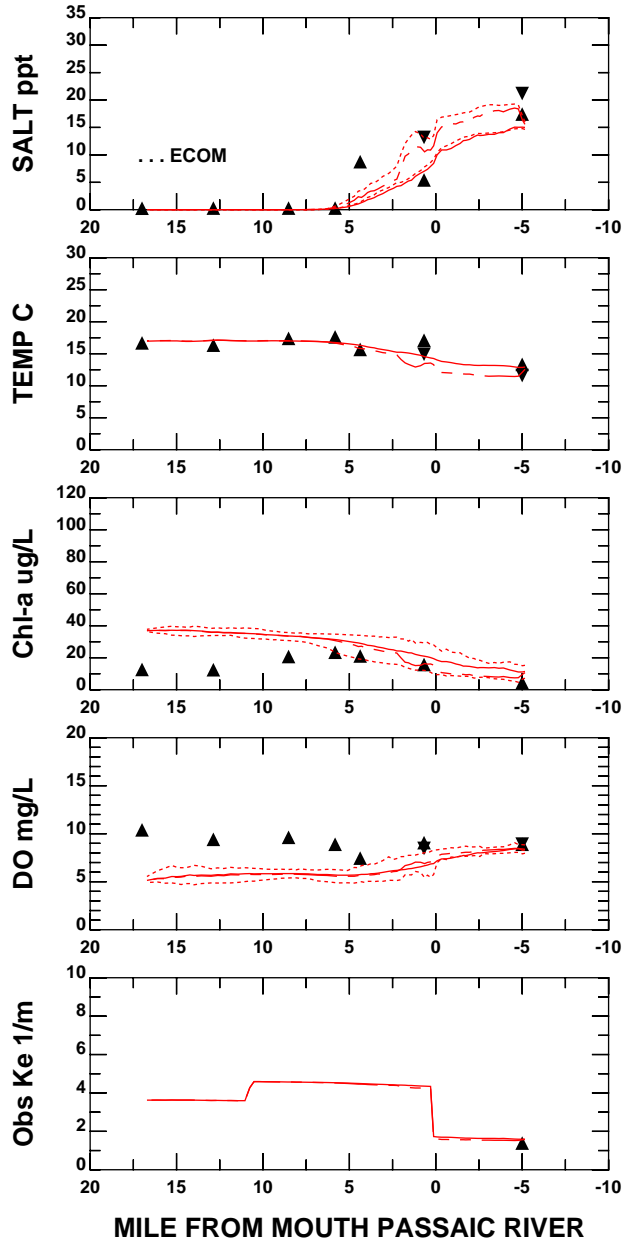
**PASSAIC RIVER AND NEWARK BAY**

RED=model:Collapsed Grid 1011

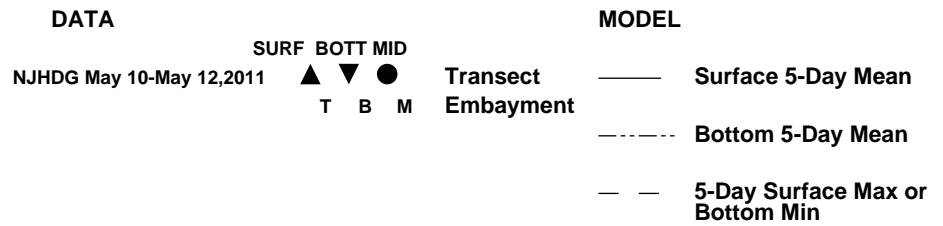
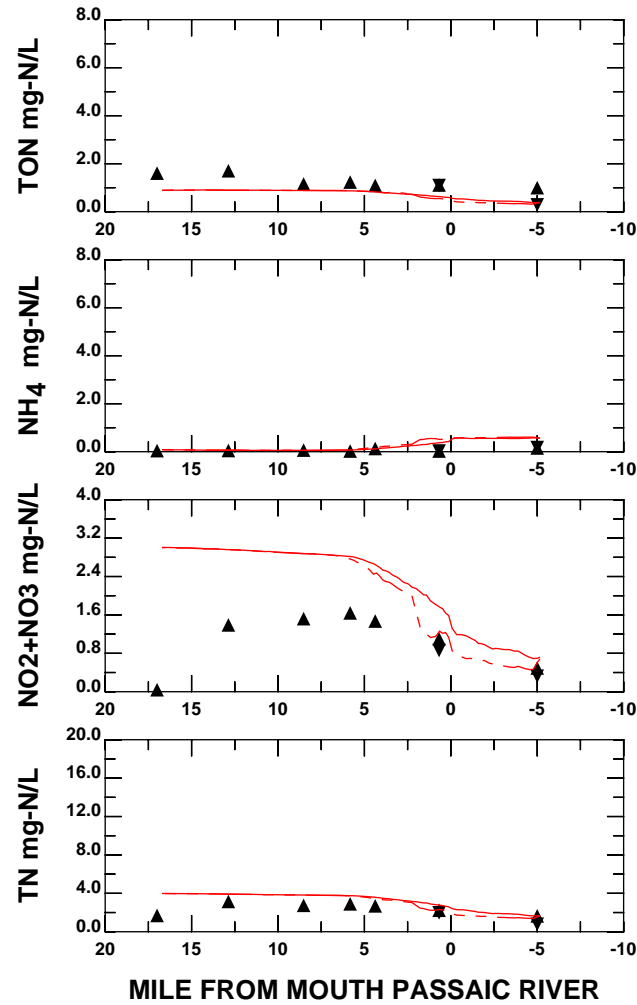
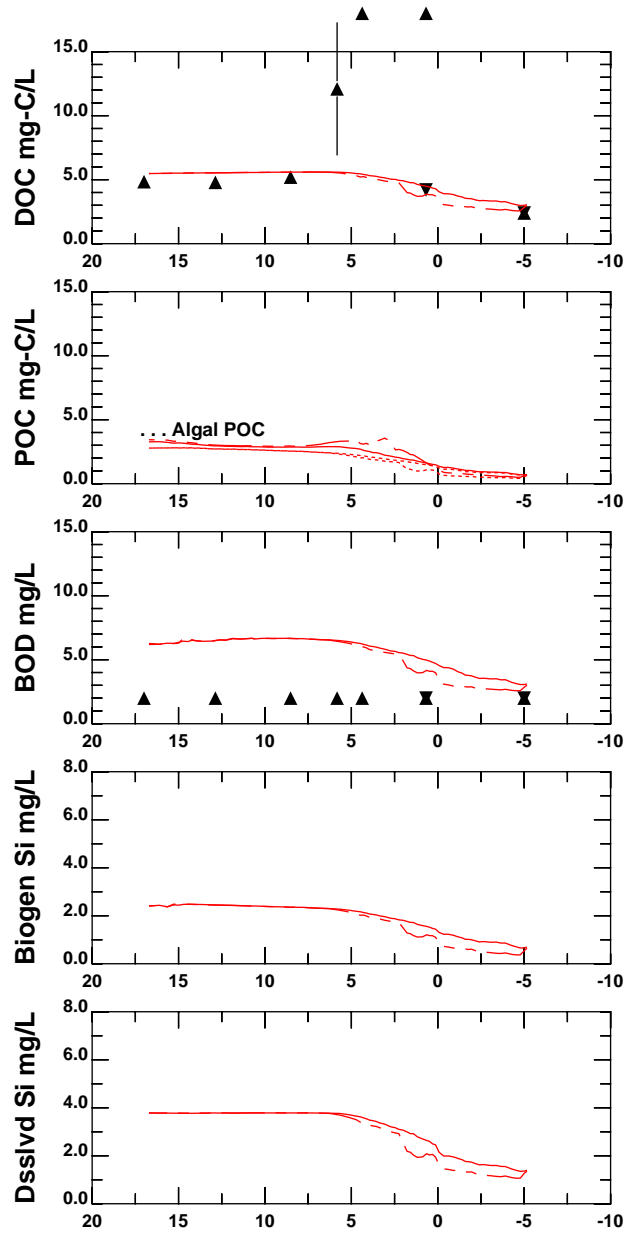


MILE FROM MOUTH PASSAIC RIVER

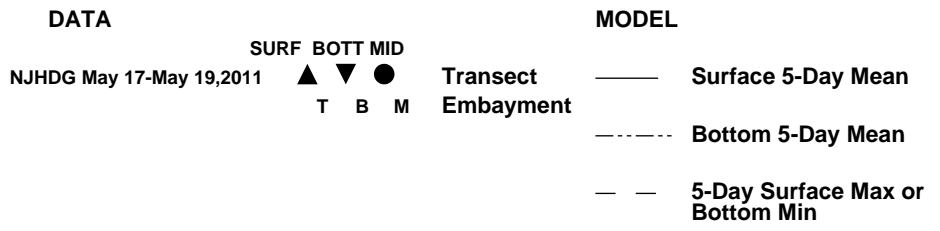
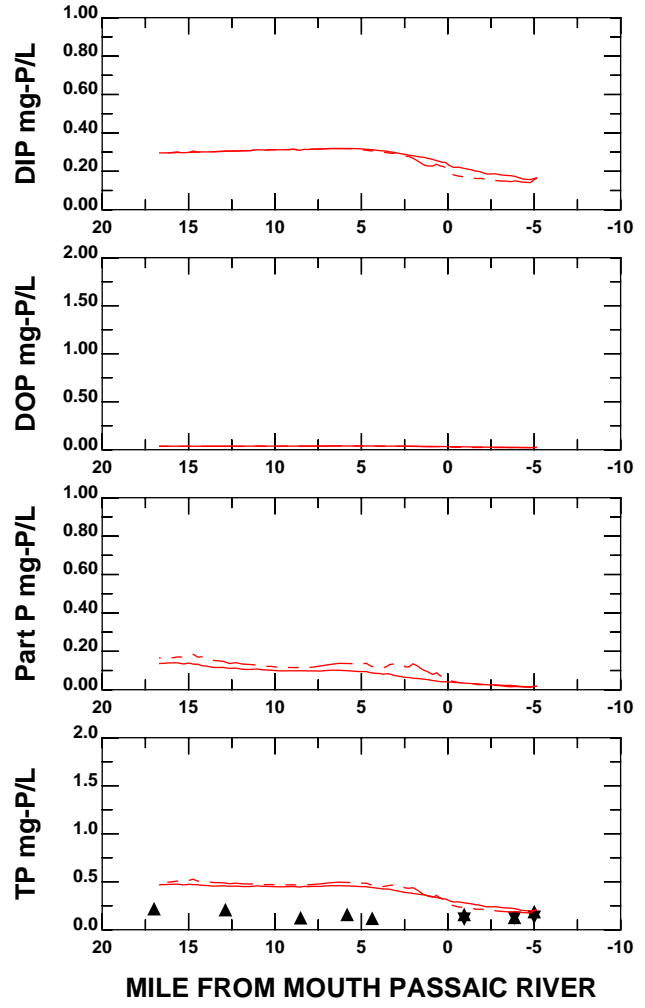
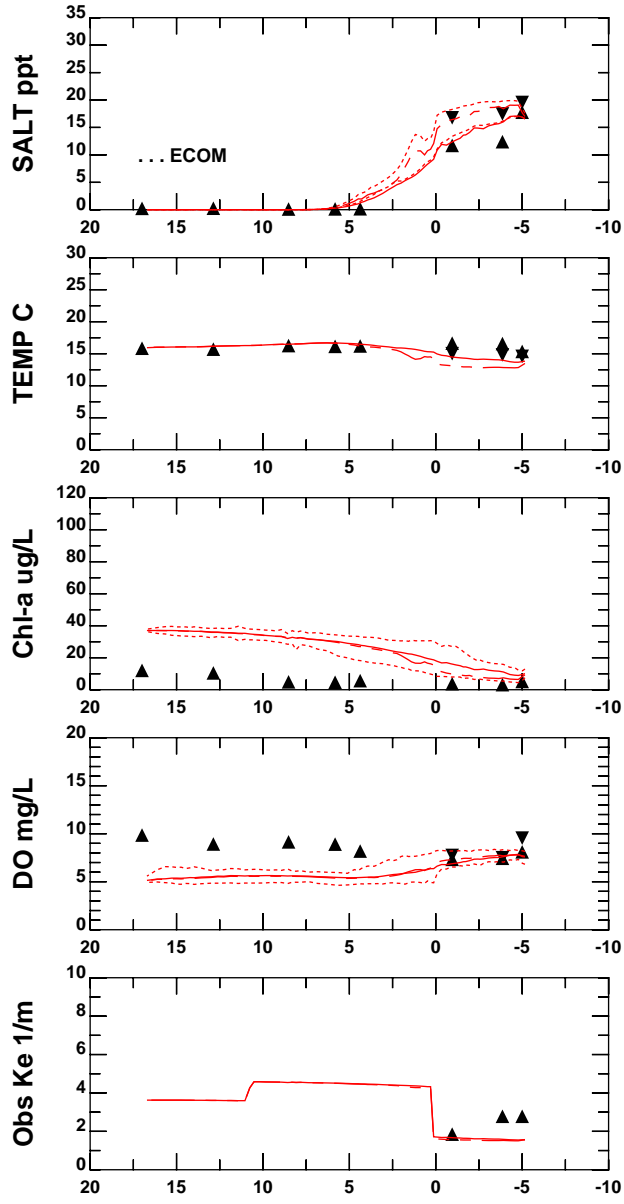




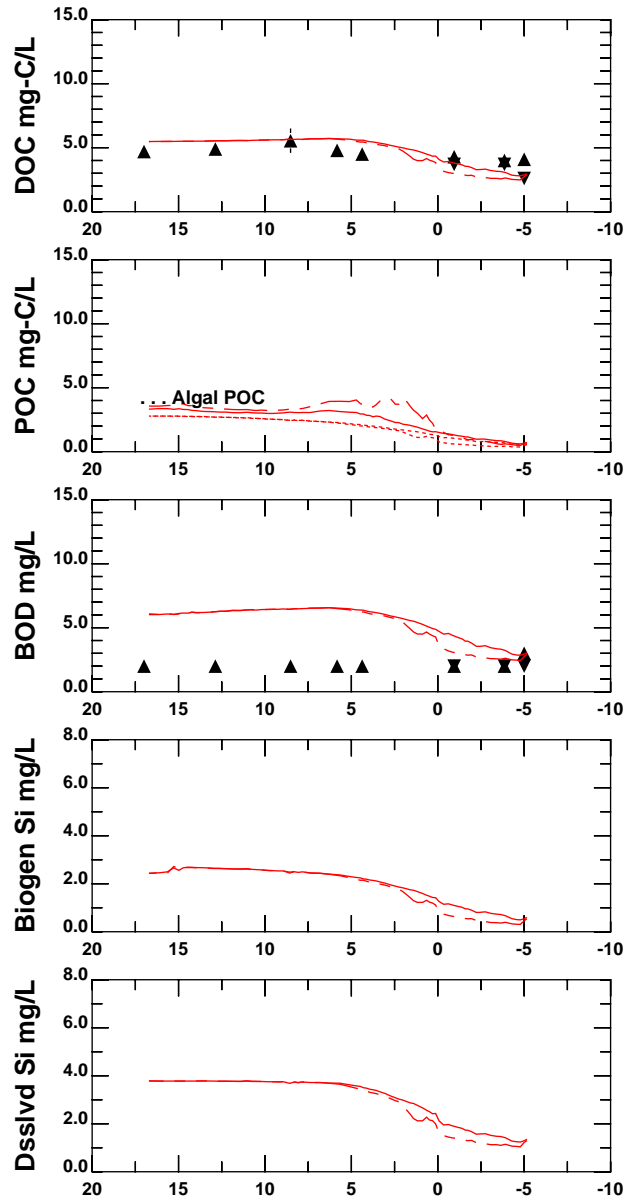
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



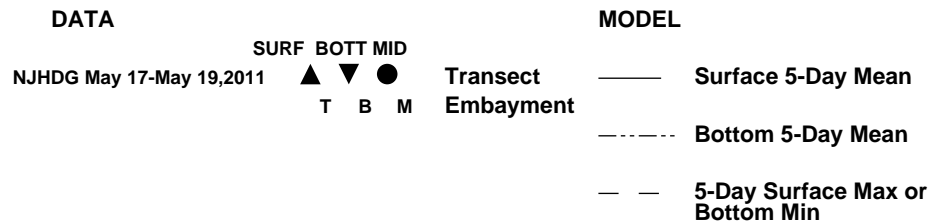
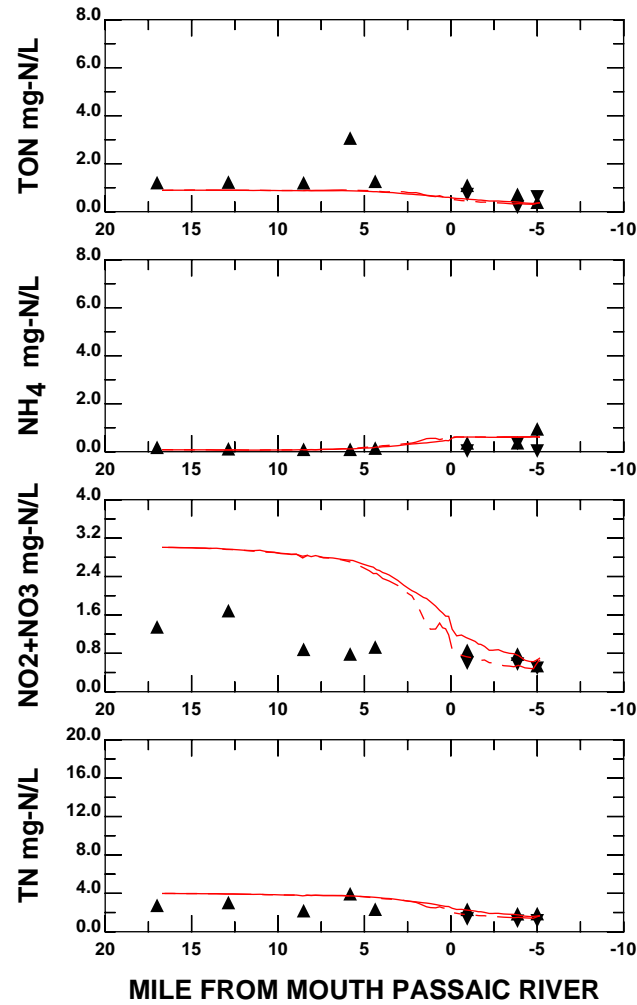
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

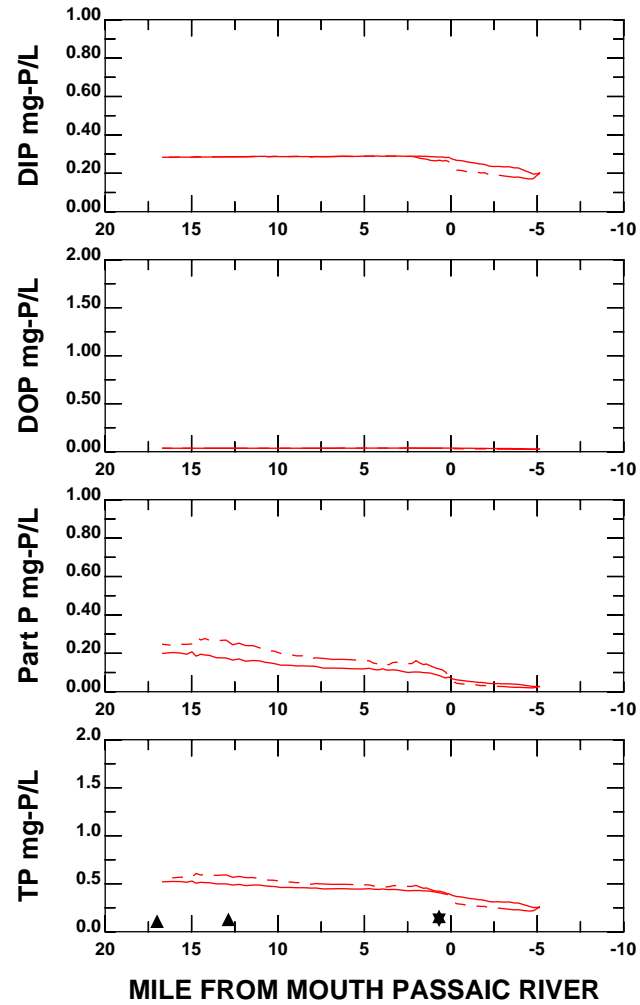
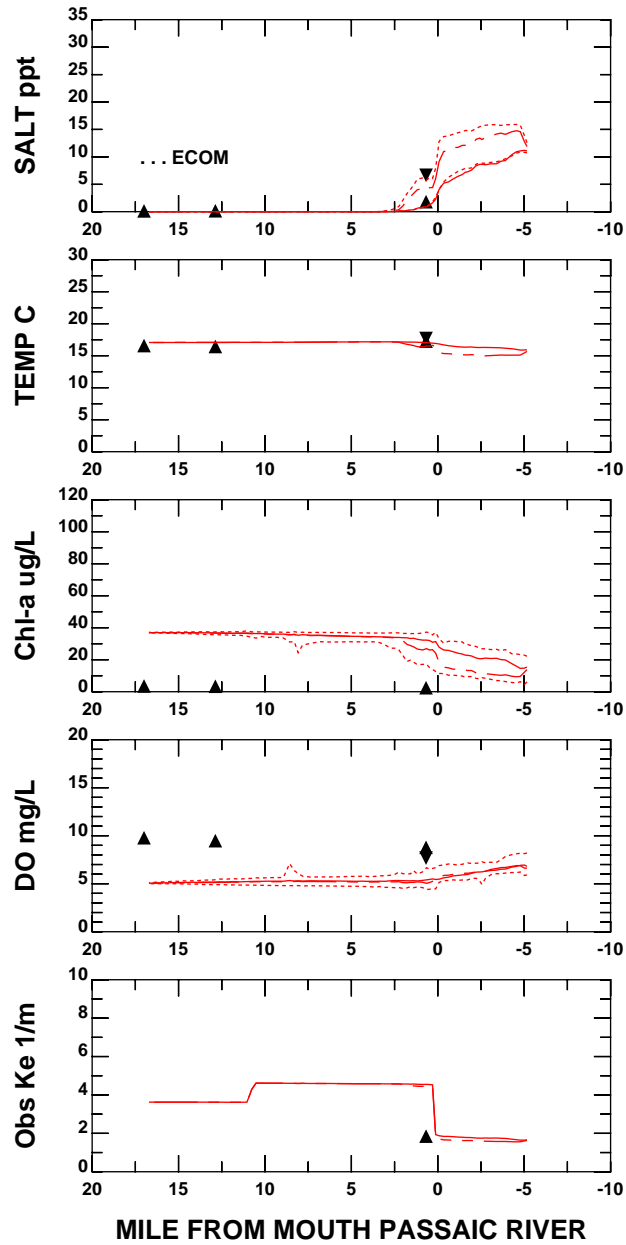


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





**DATA**  
NJHDG May 24, 2011

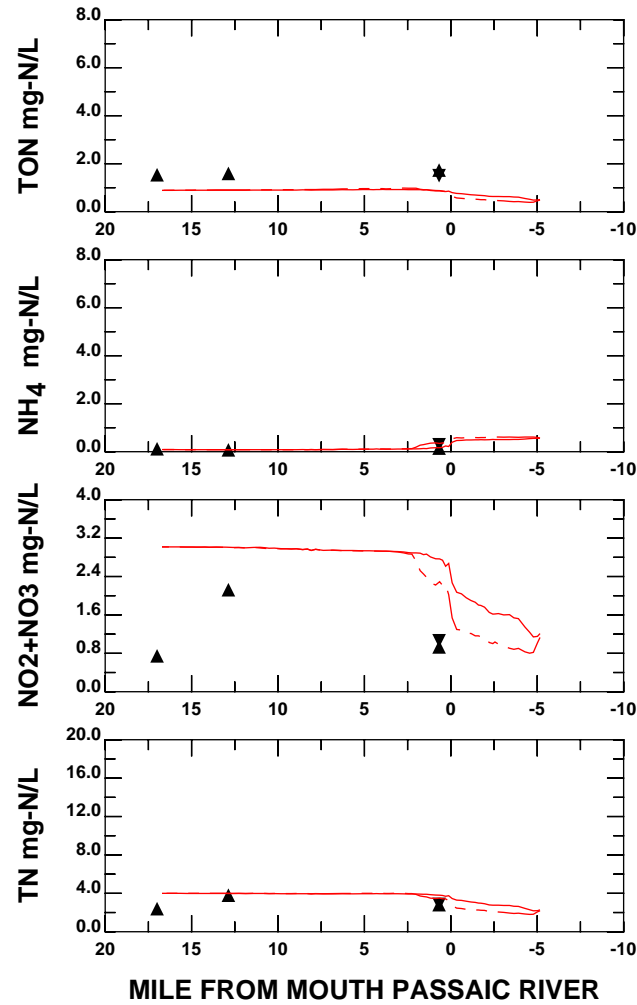
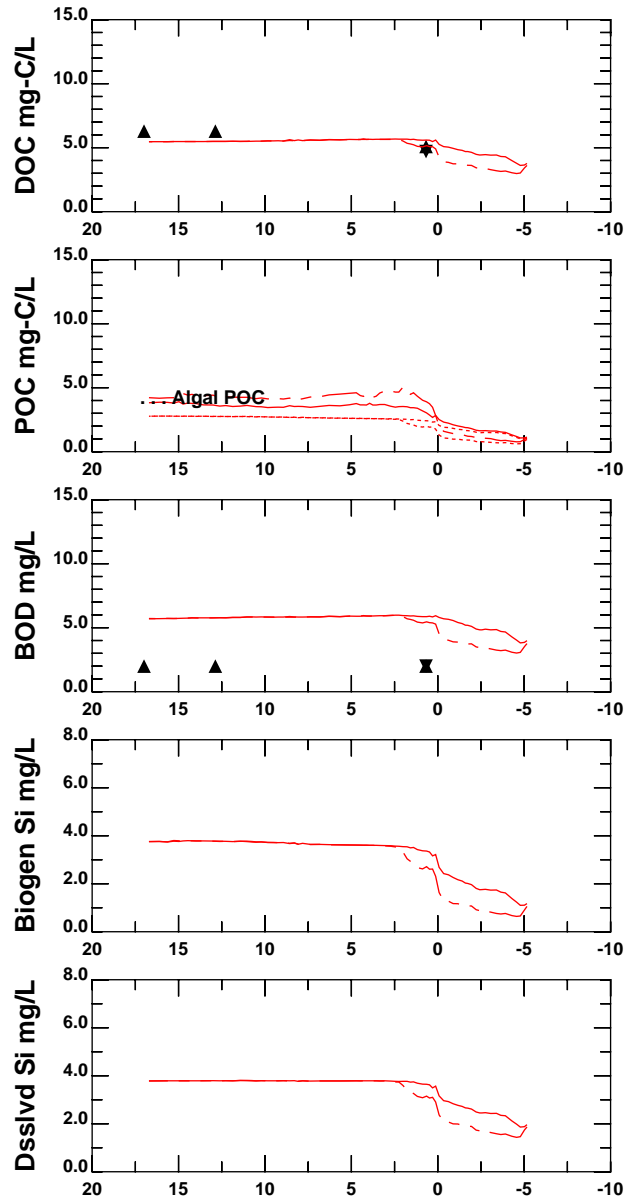
**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



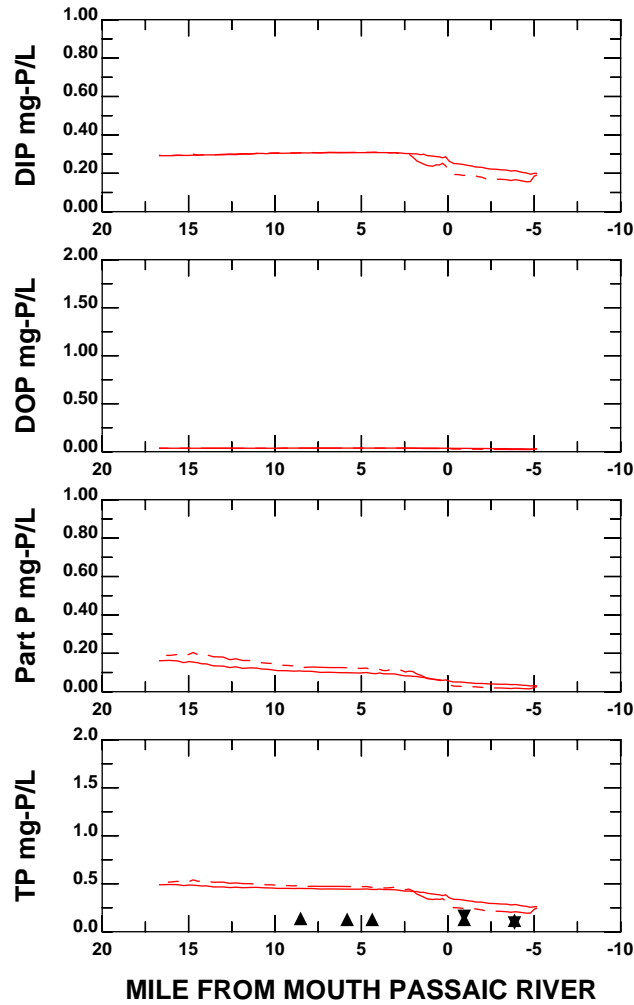
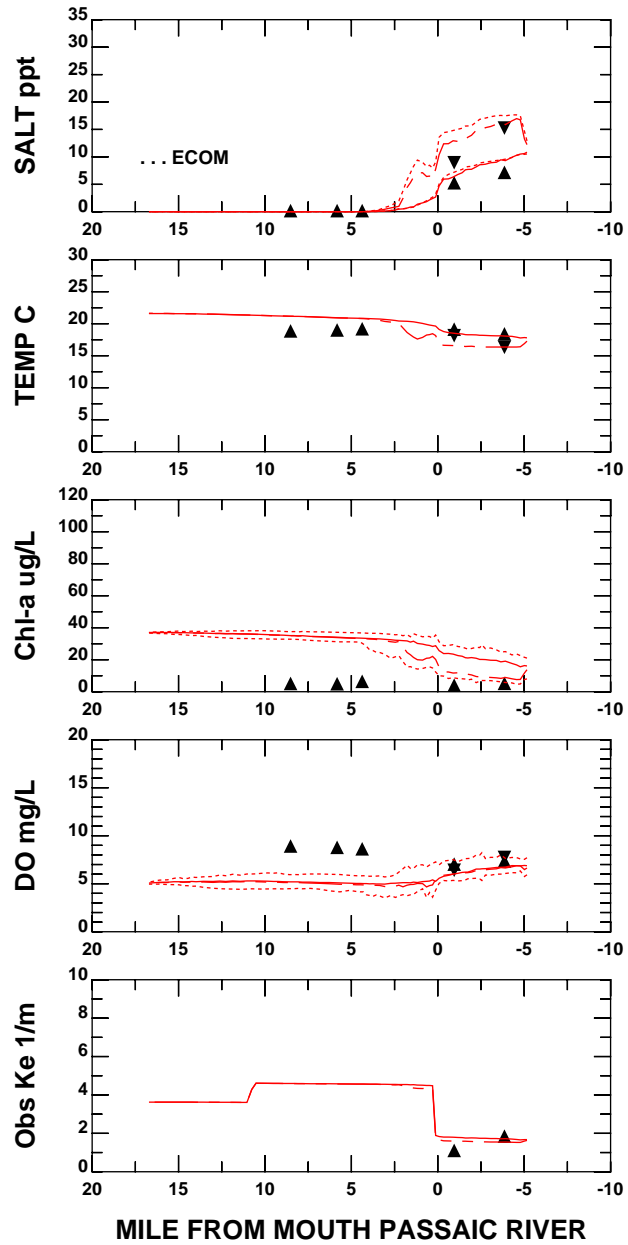


DATA  
NJHDG May 24, 2011

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



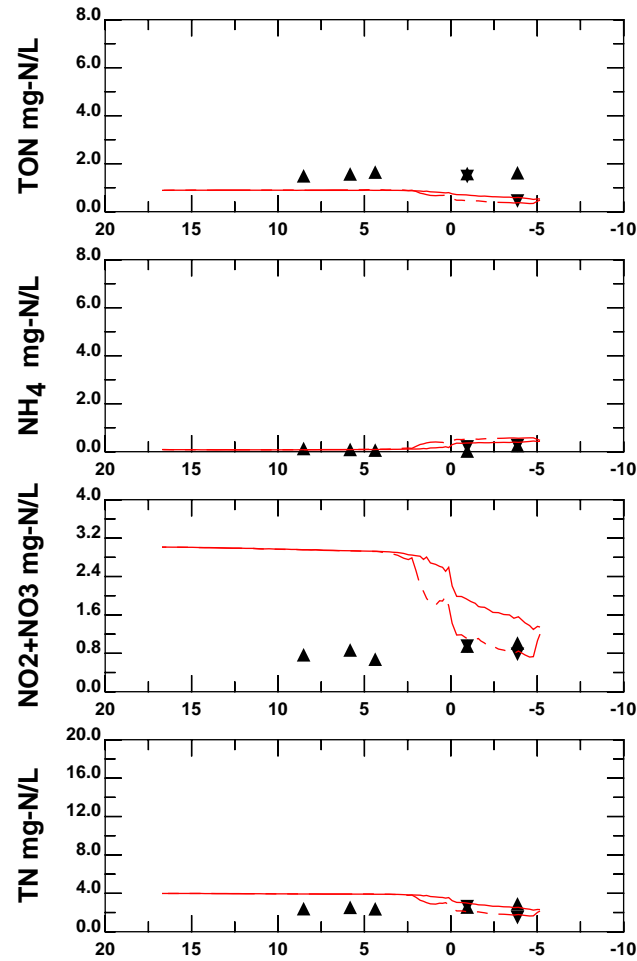
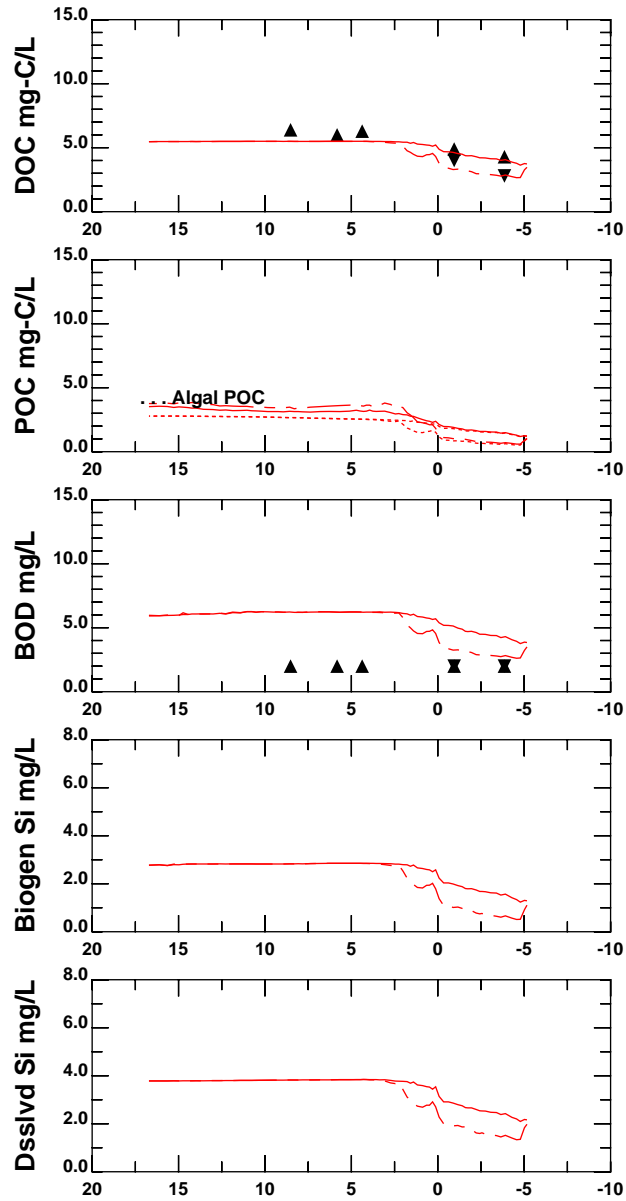
**DATA**  
NJHDG May 26, 2011

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

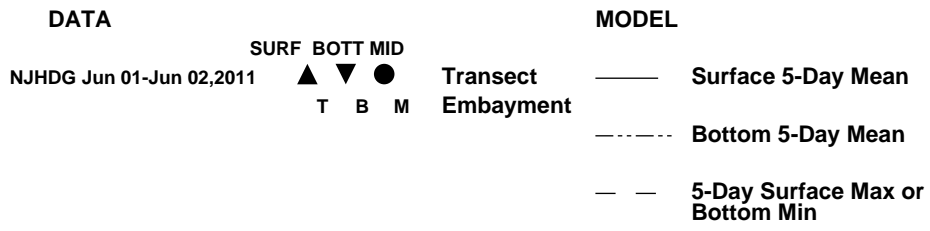
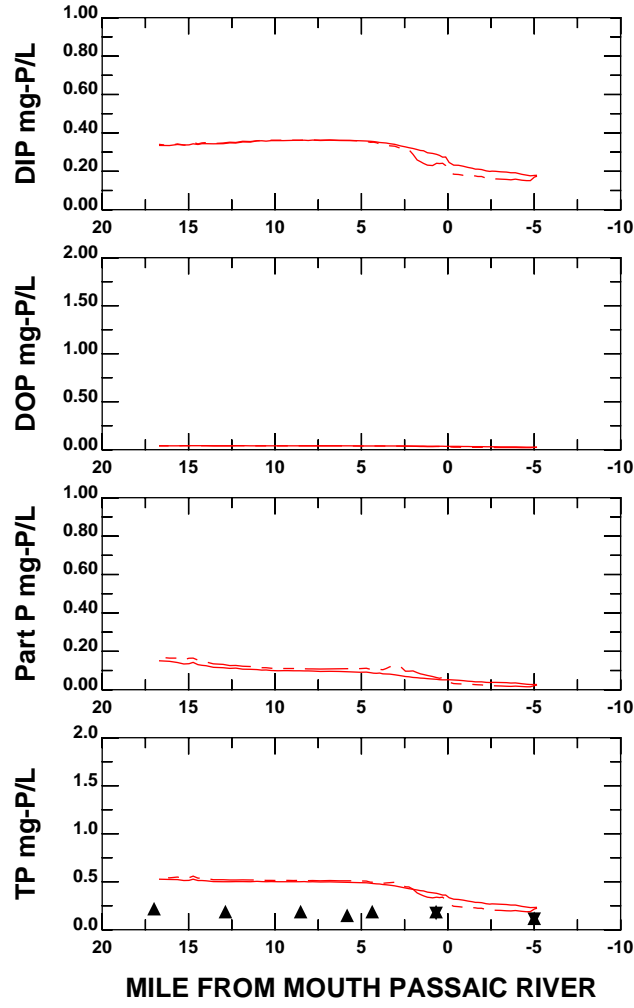
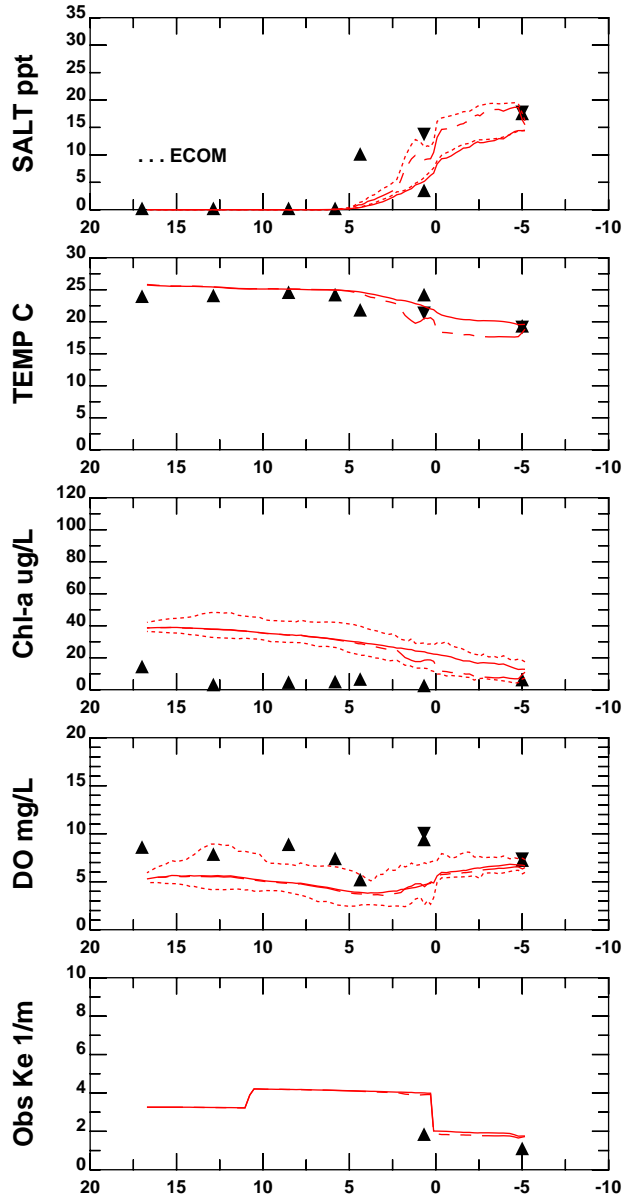


DATA  
NJHDG May 26, 2011

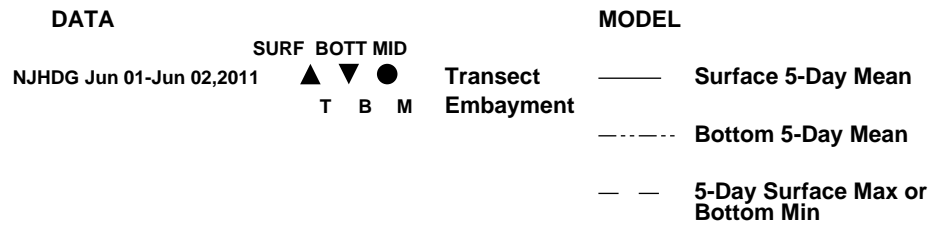
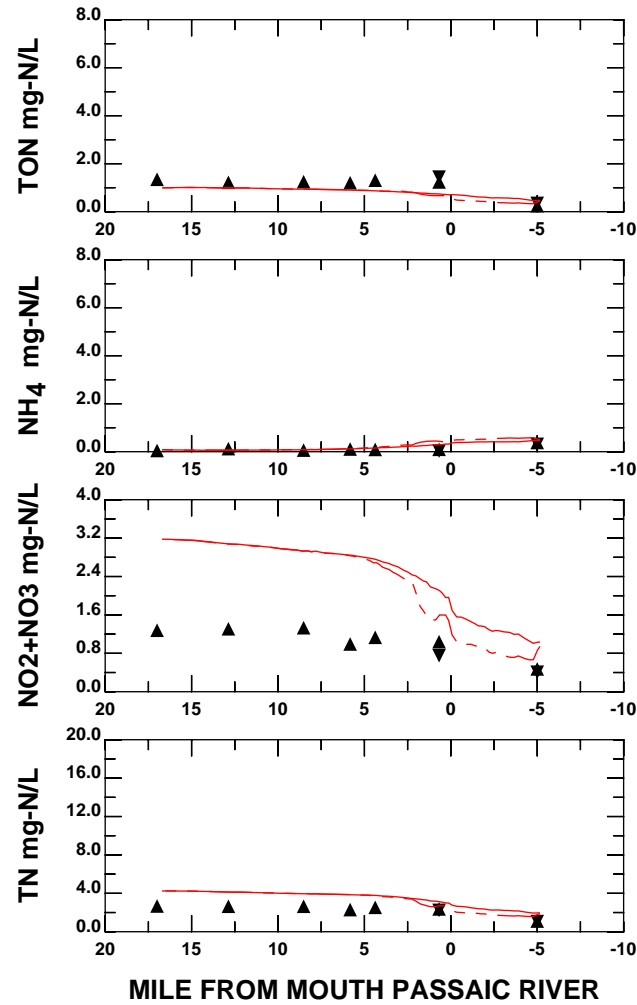
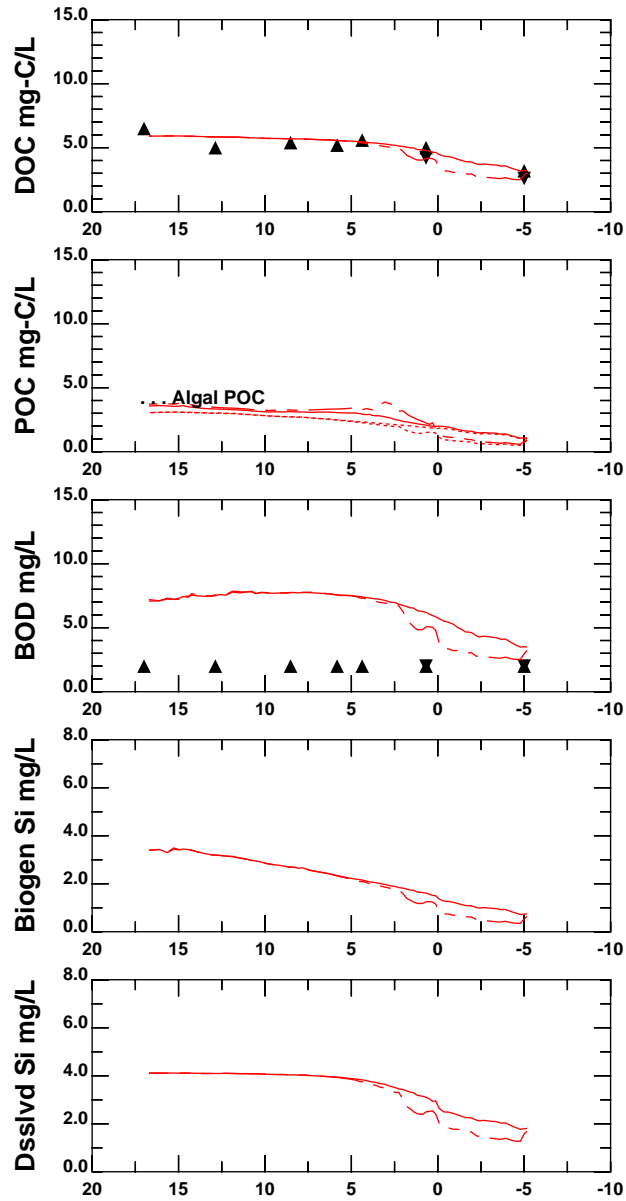
SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

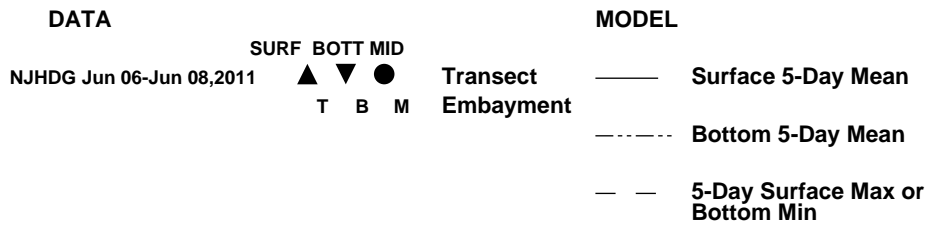
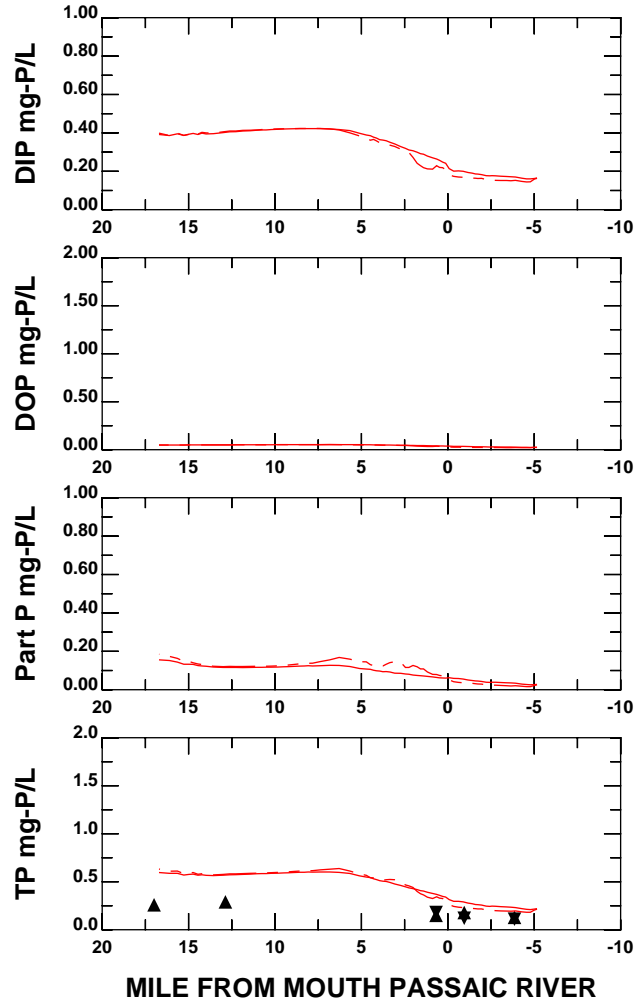
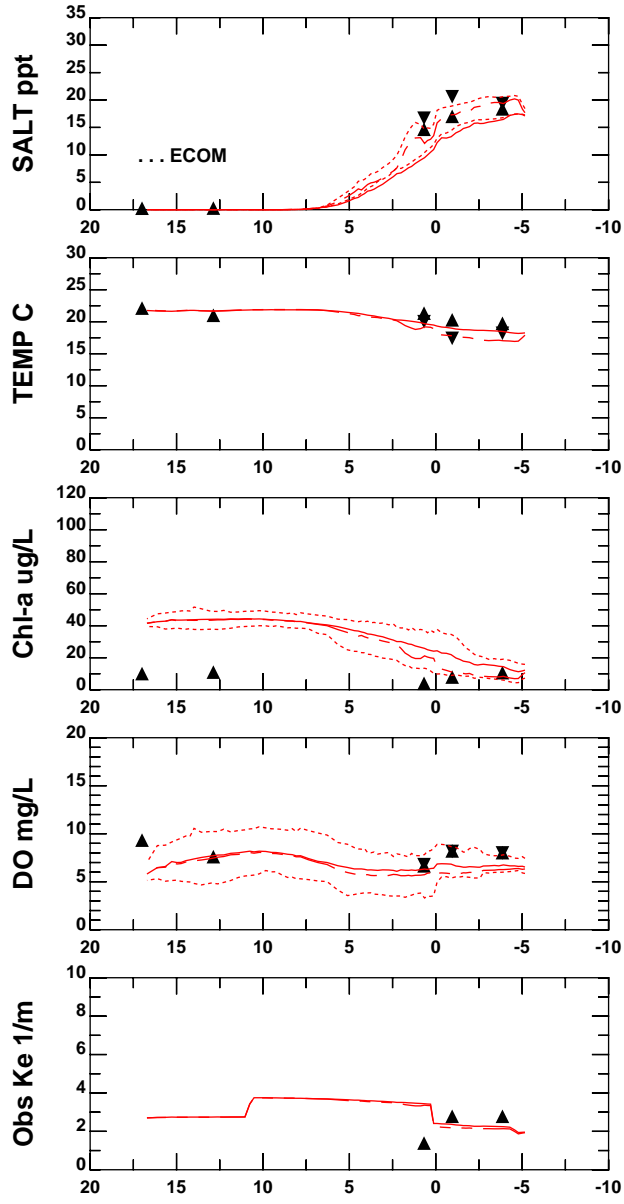
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



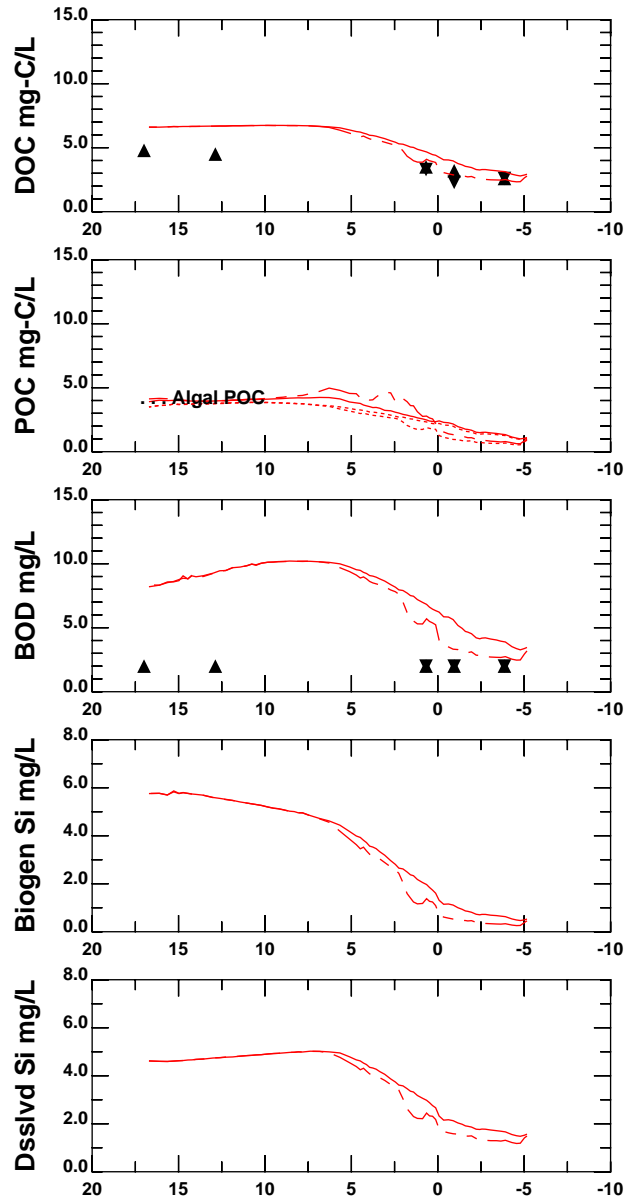
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



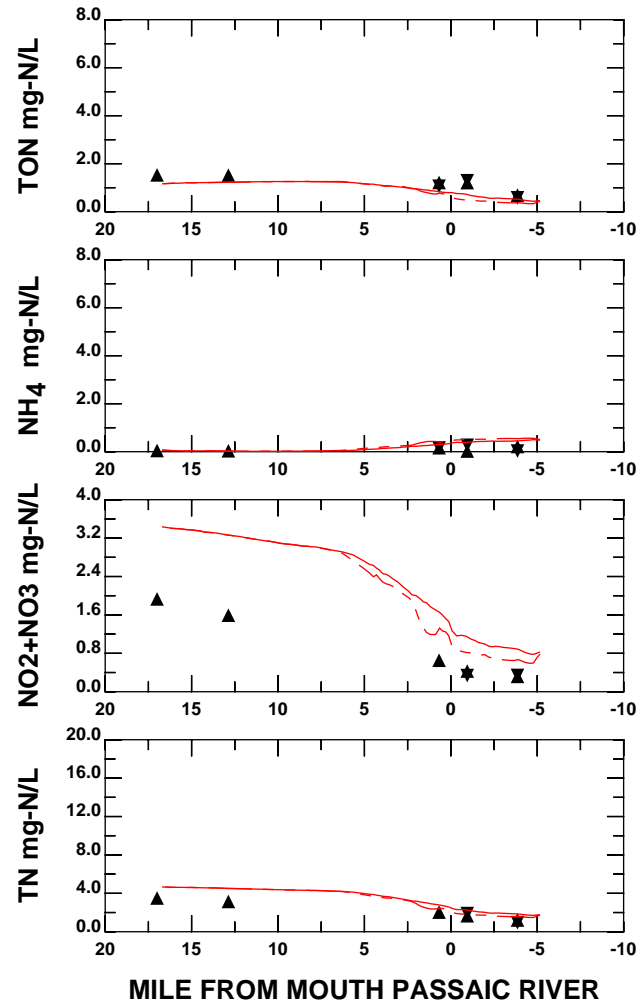
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



DATA

NJHDG Jun 06-Jun 08,2011

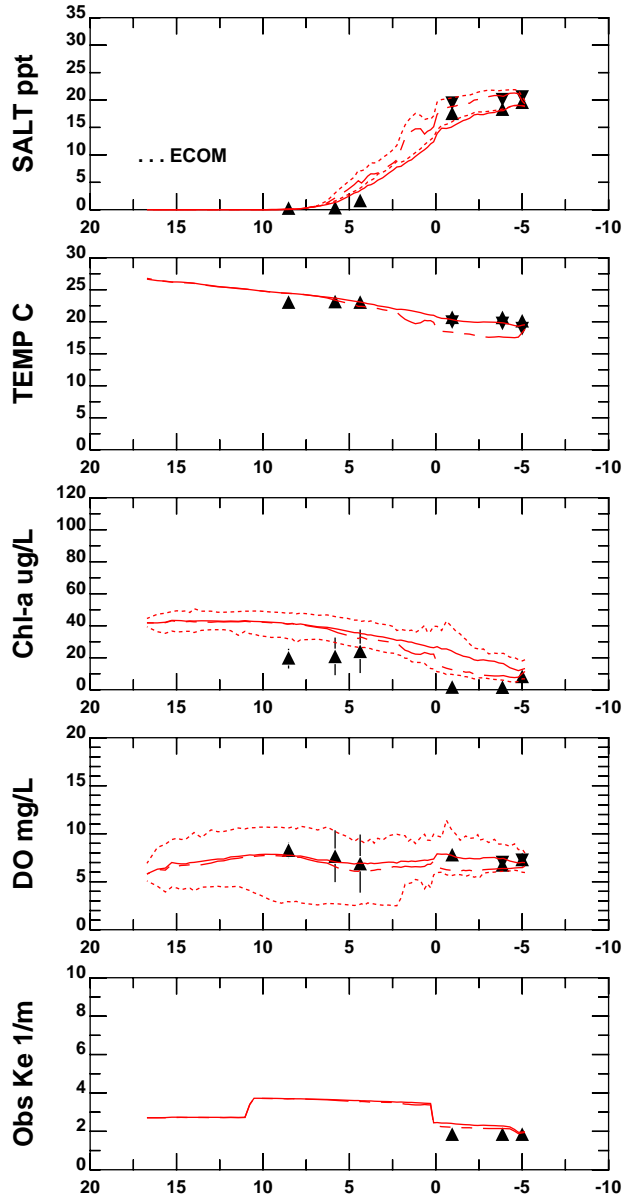
SURF BOTT MID

▲ ▼ ●  
T B M

Transect  
Embayment

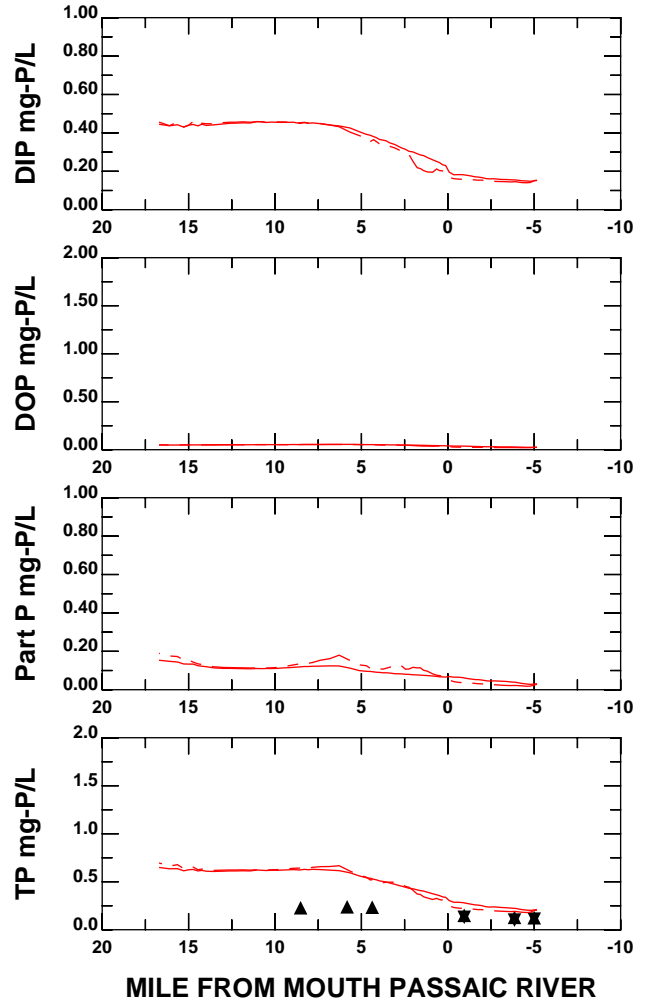
MODEL

— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- · - 5-Day Surface Max or Bottom Min

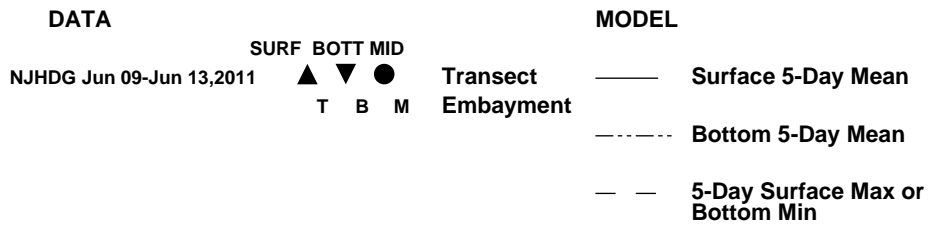


MILE FROM MOUTH PASSAIC RIVER

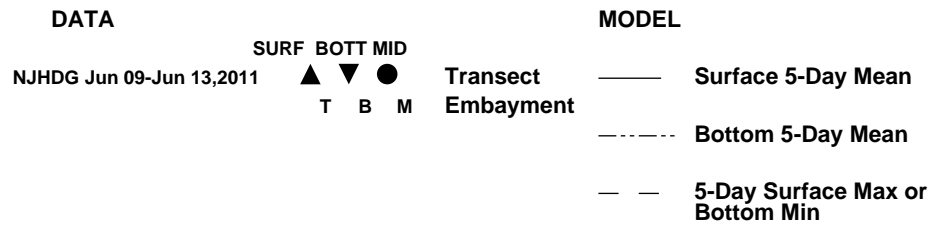
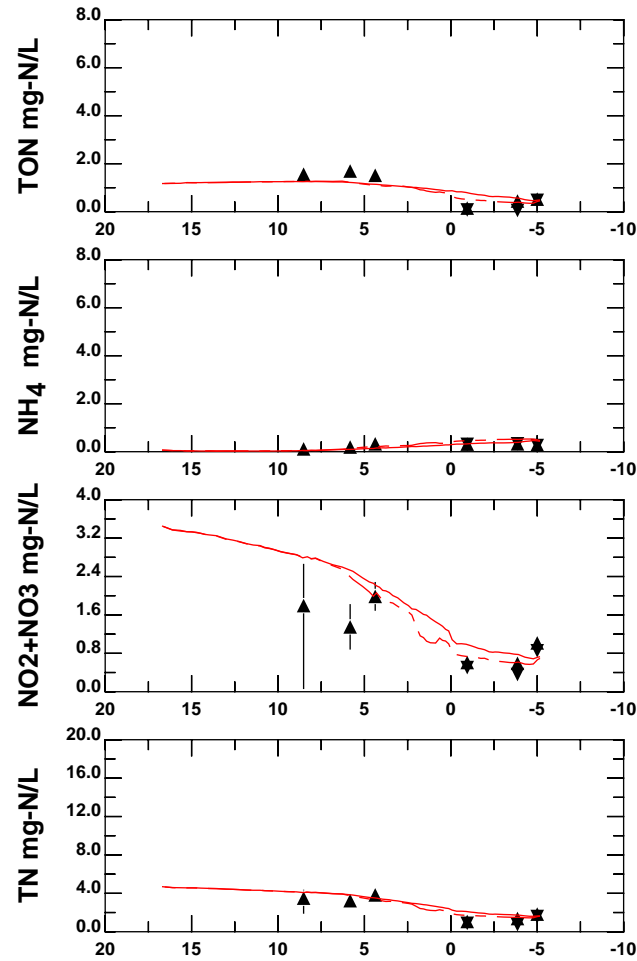
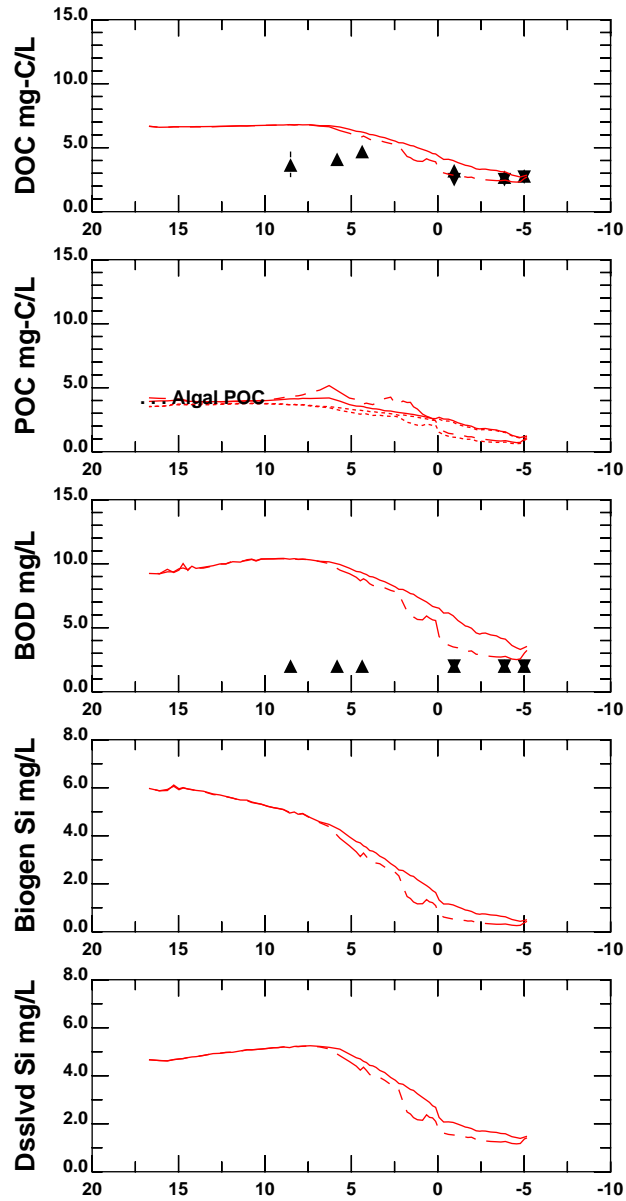
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



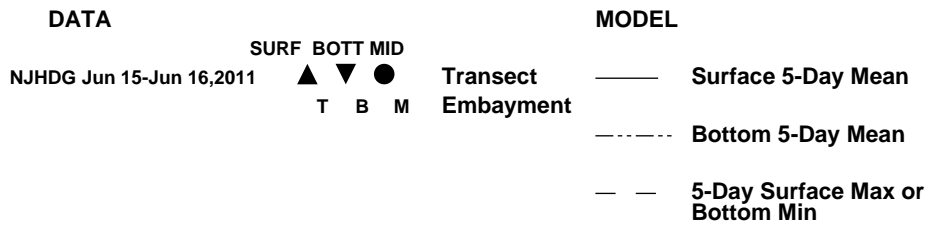
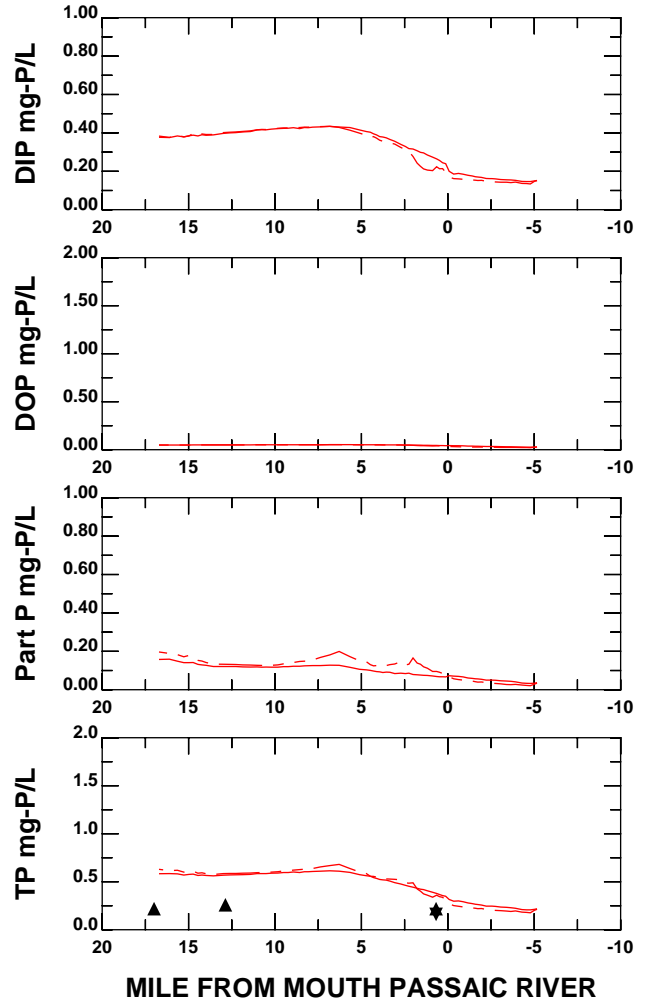
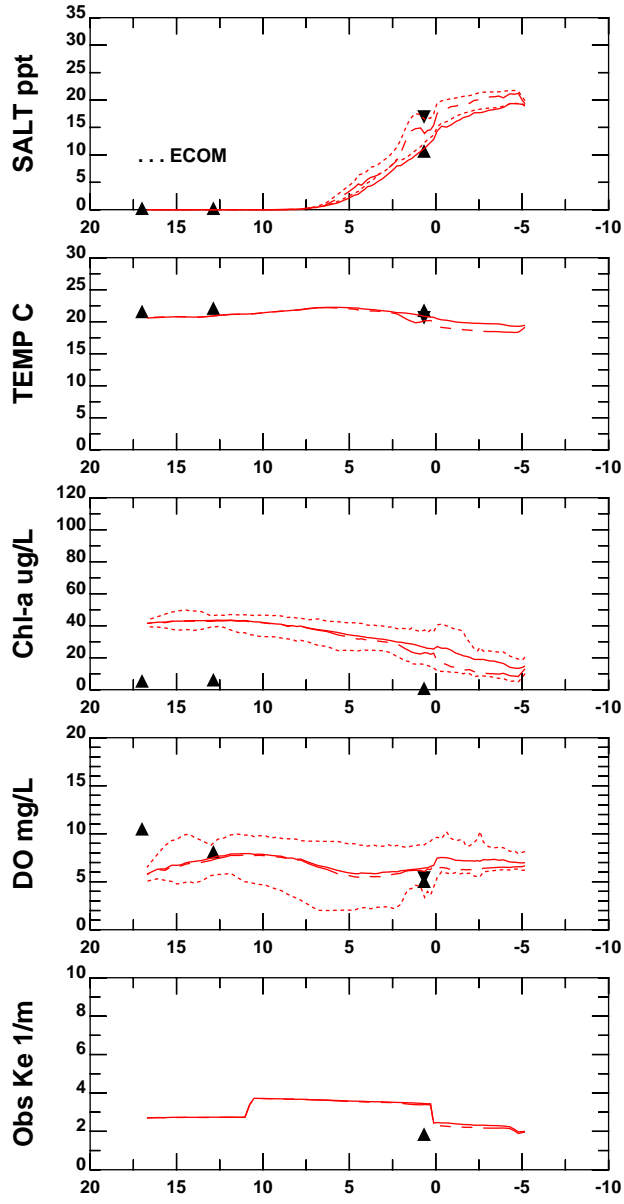
MILE FROM MOUTH PASSAIC RIVER



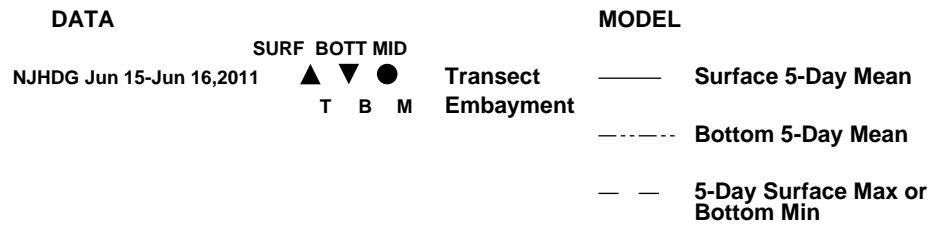
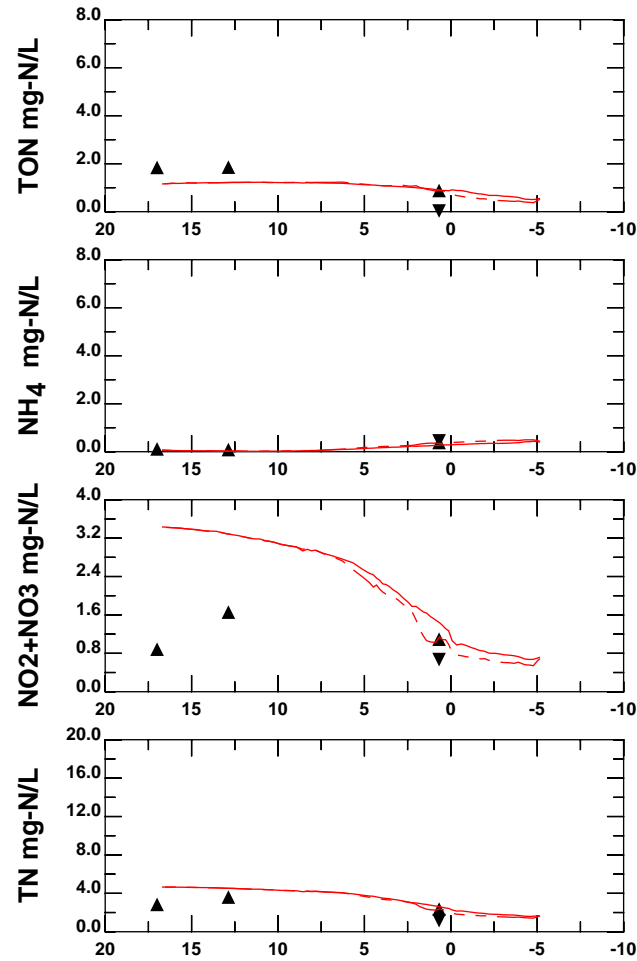
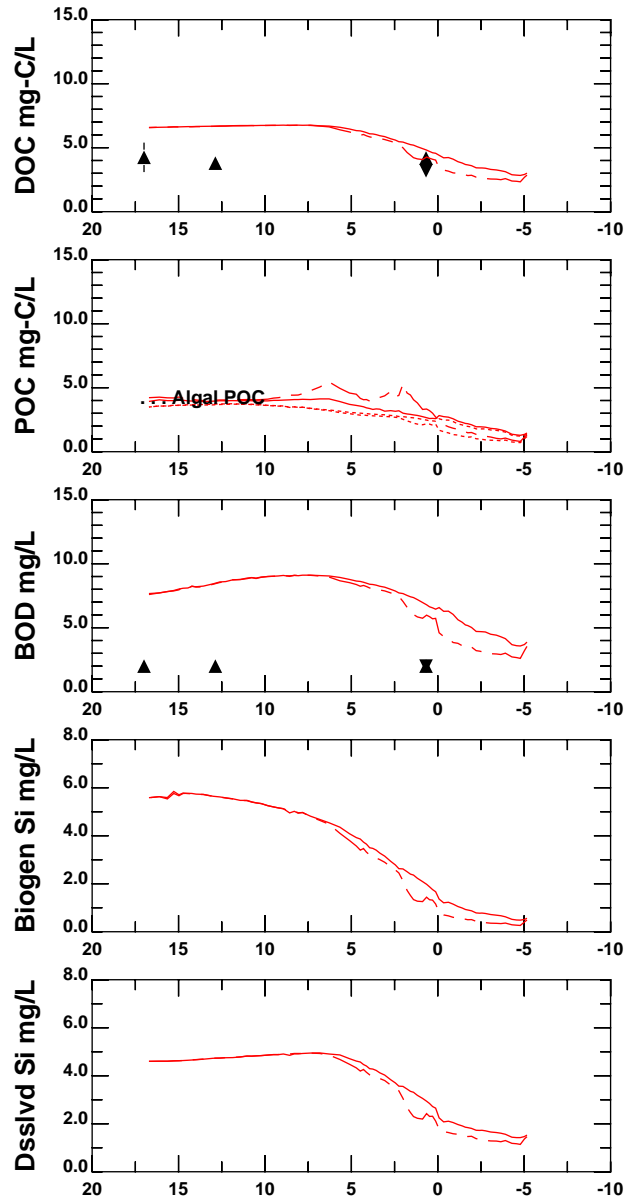




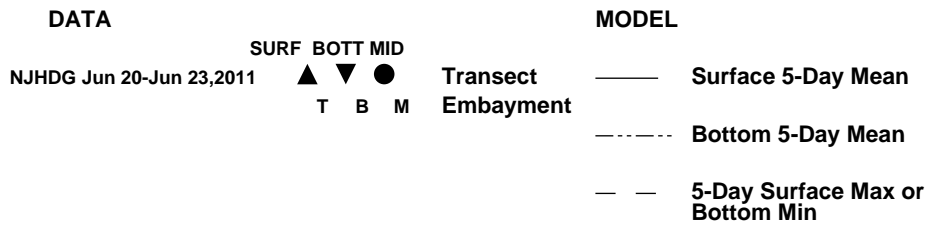
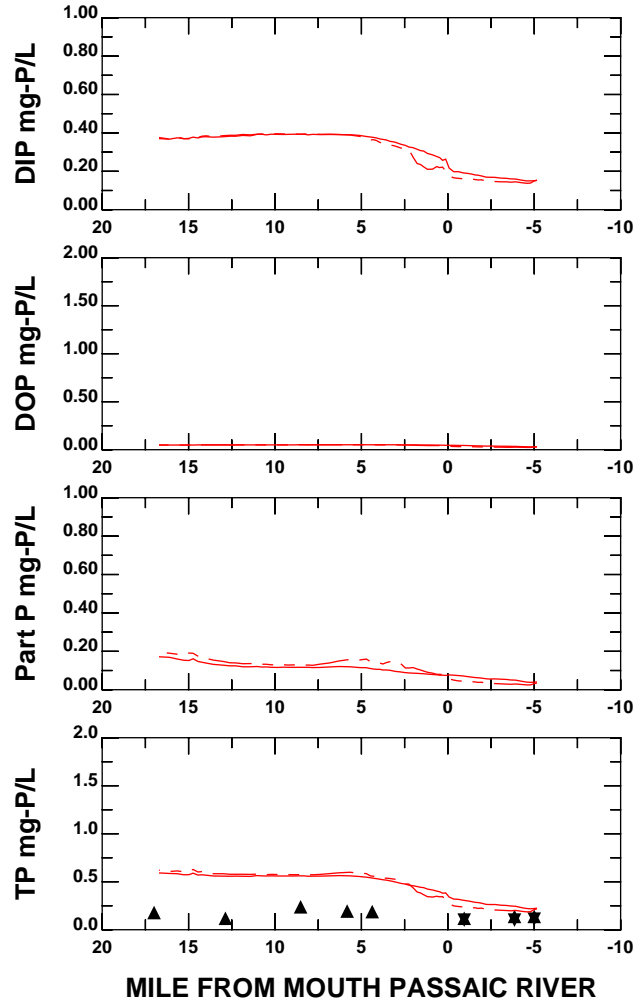
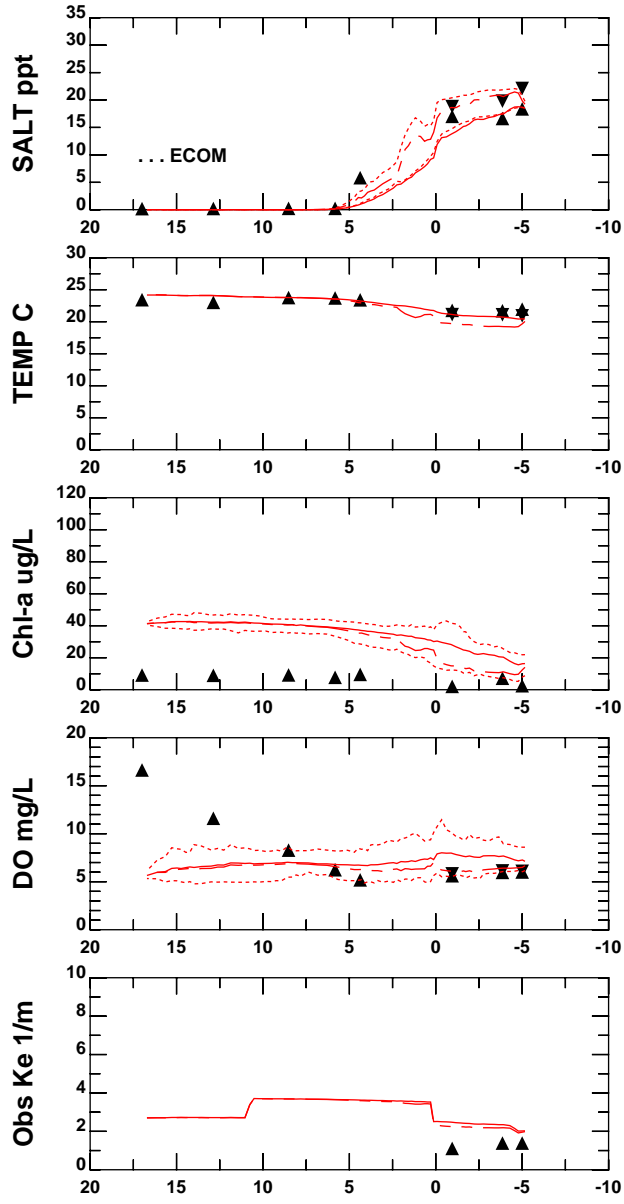
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



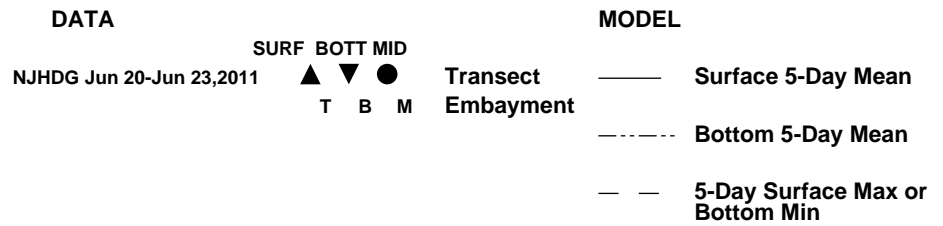
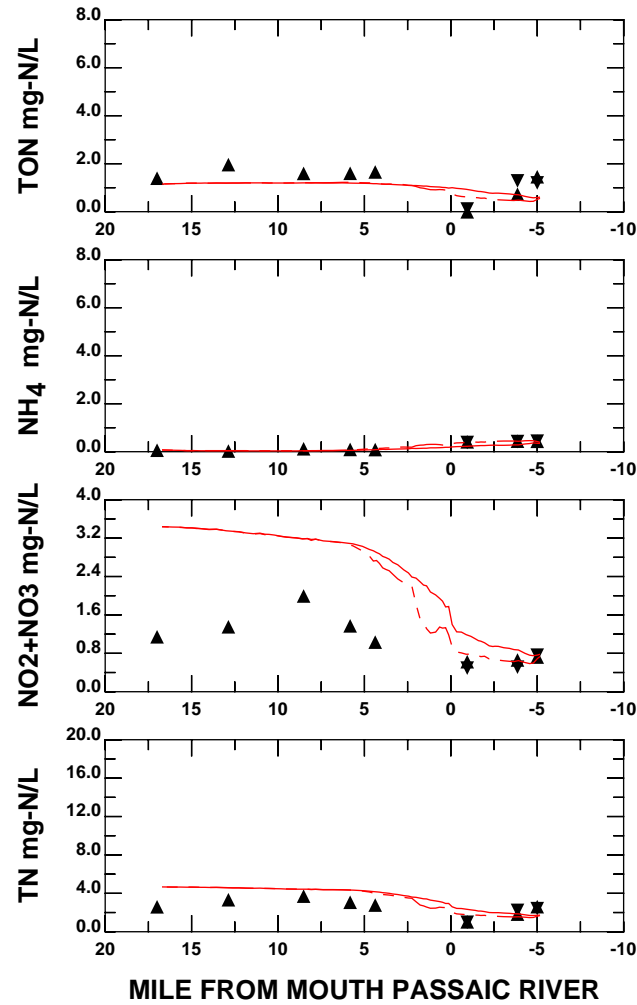
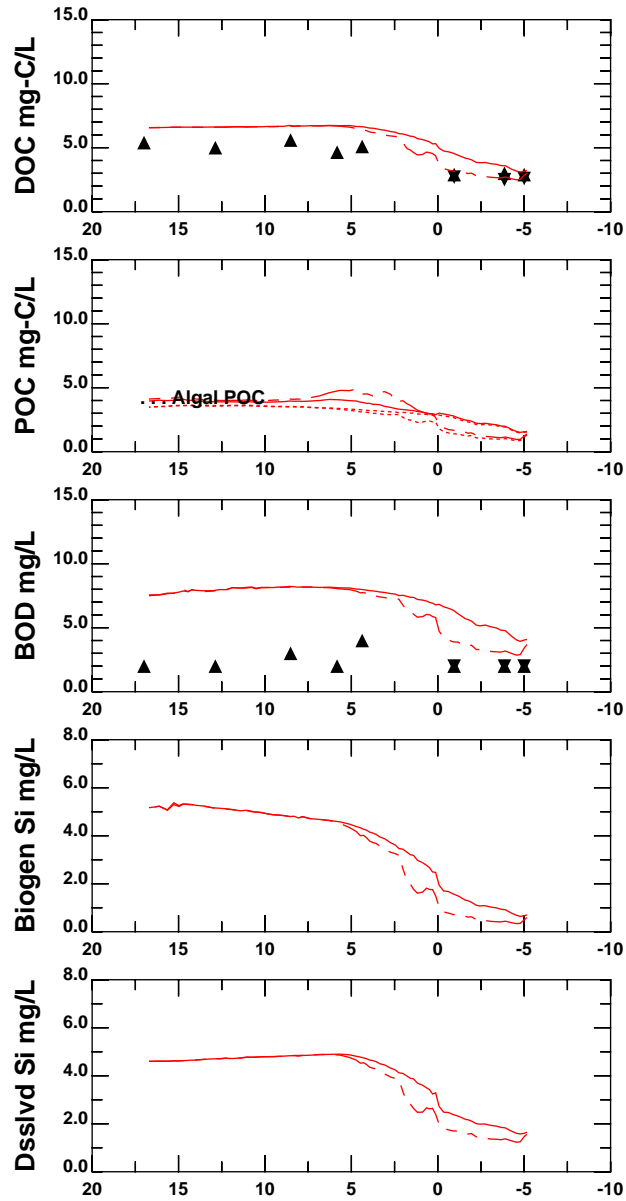
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



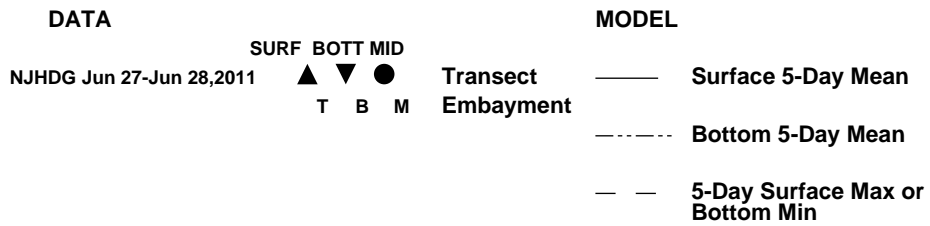
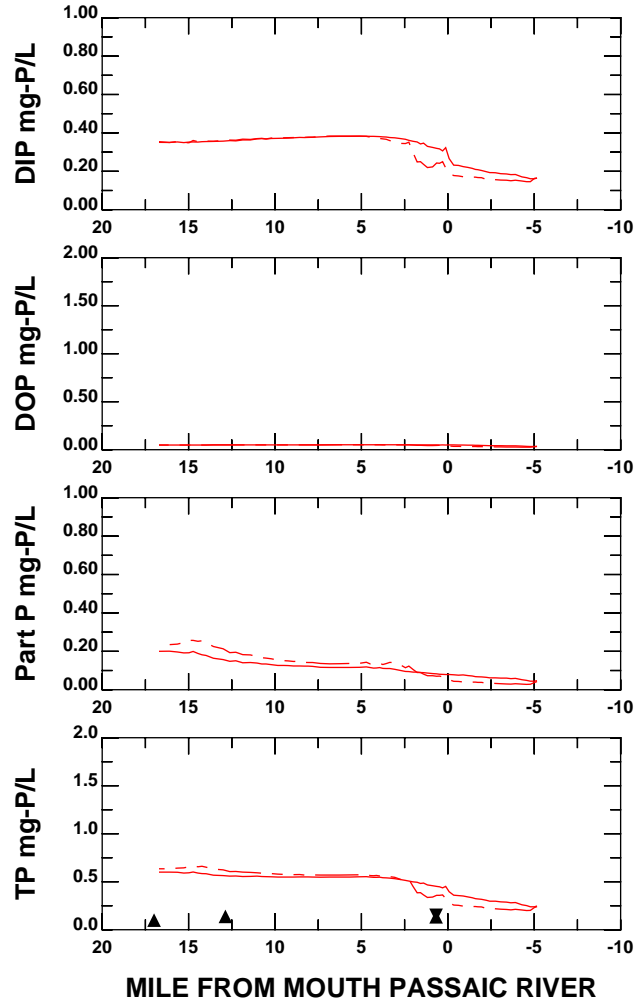
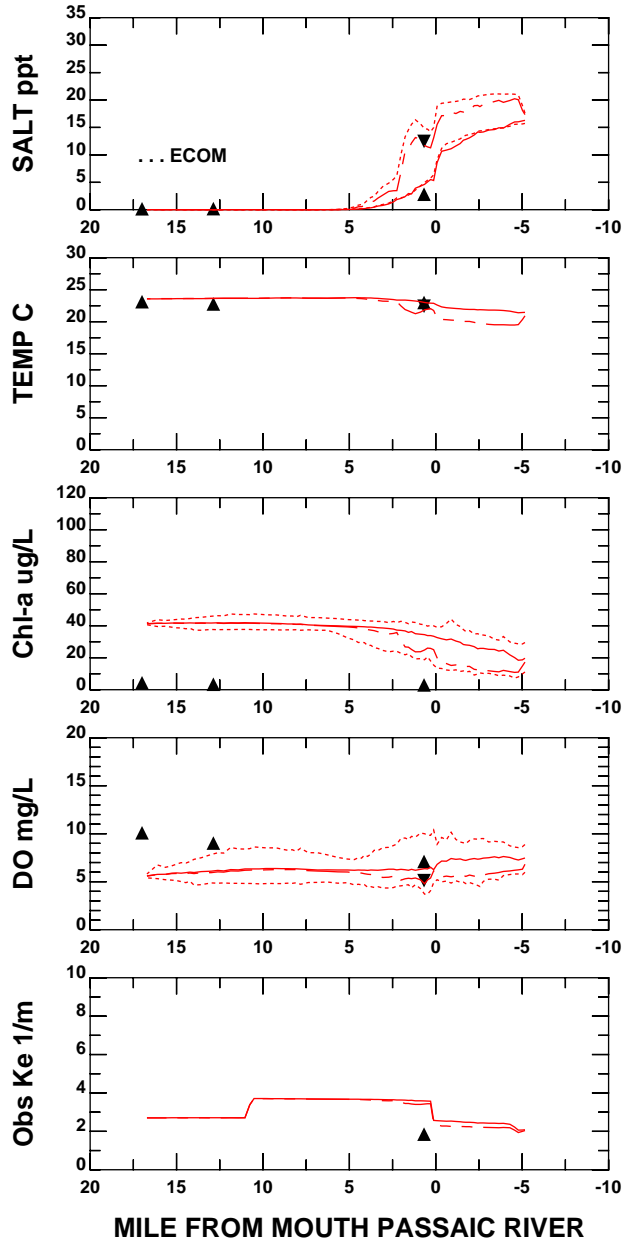
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



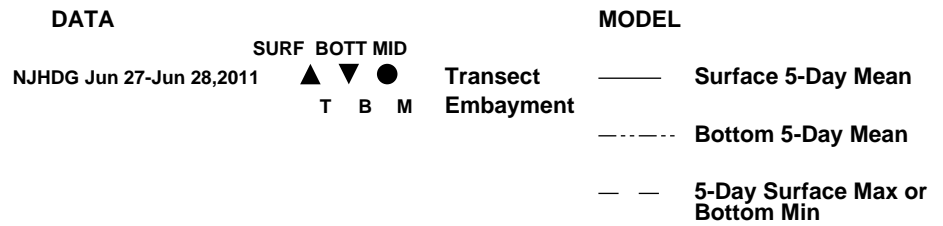
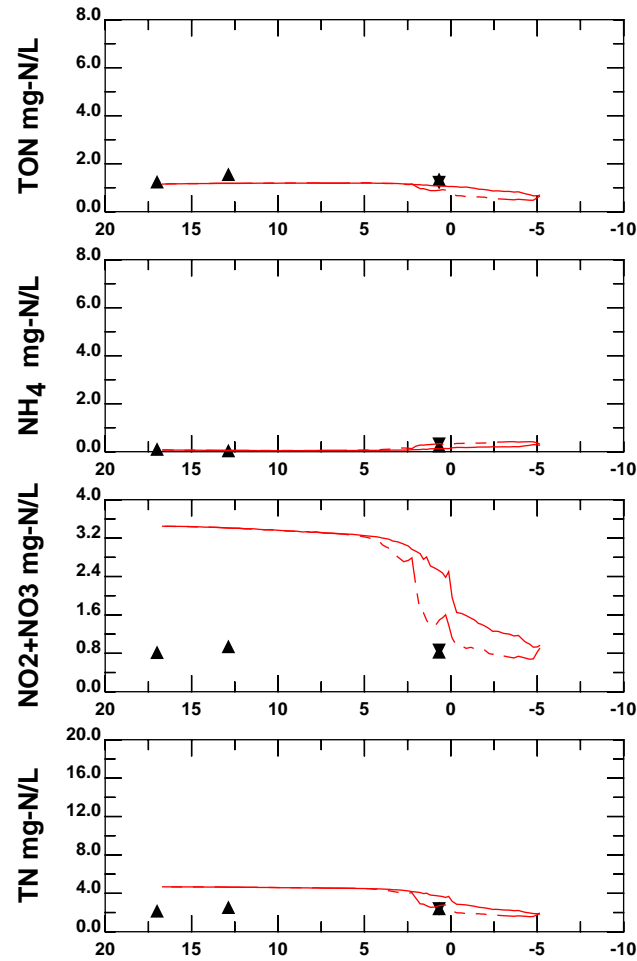
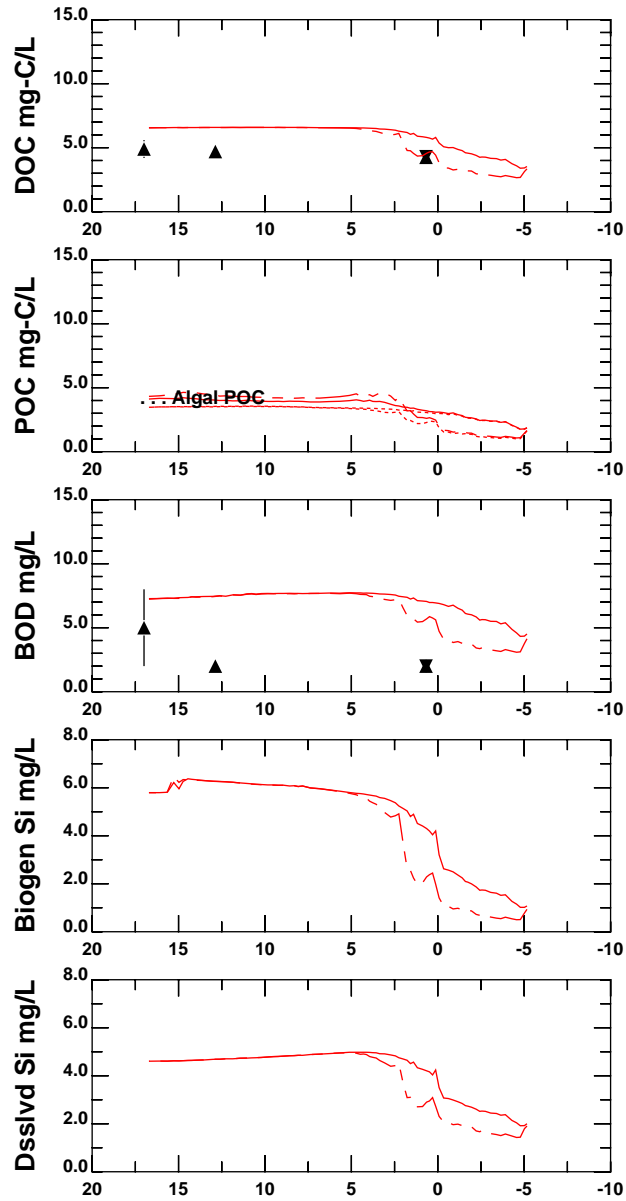
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



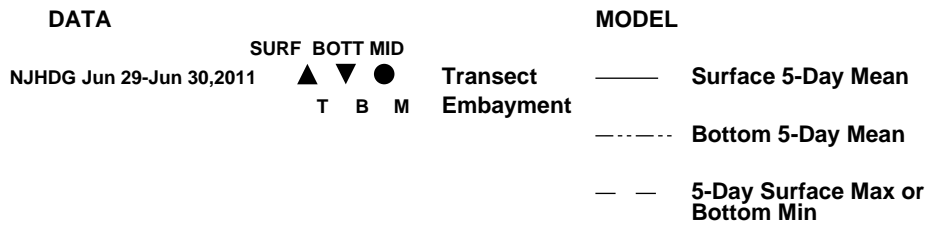
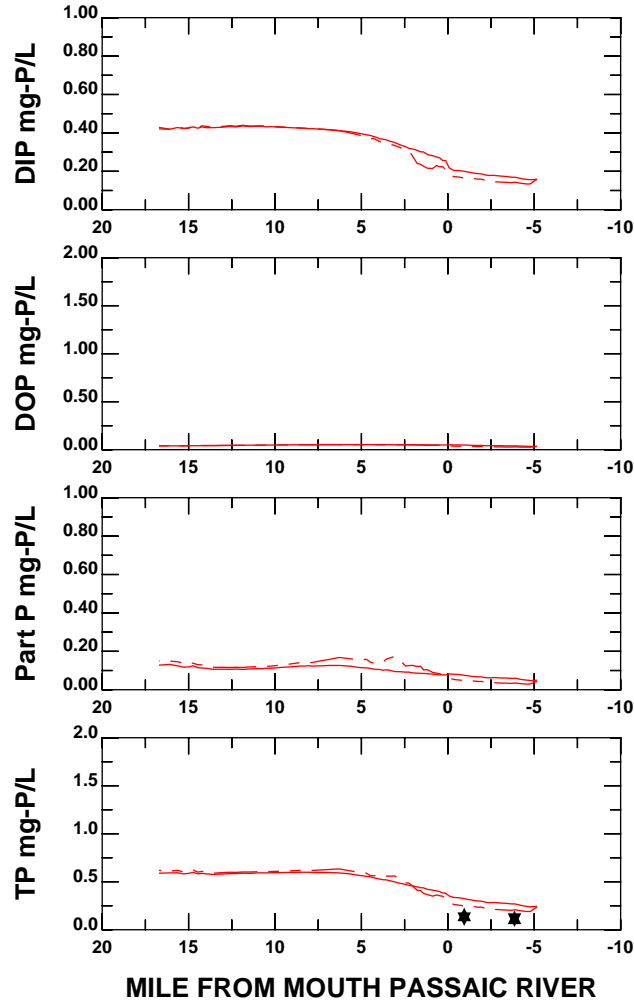
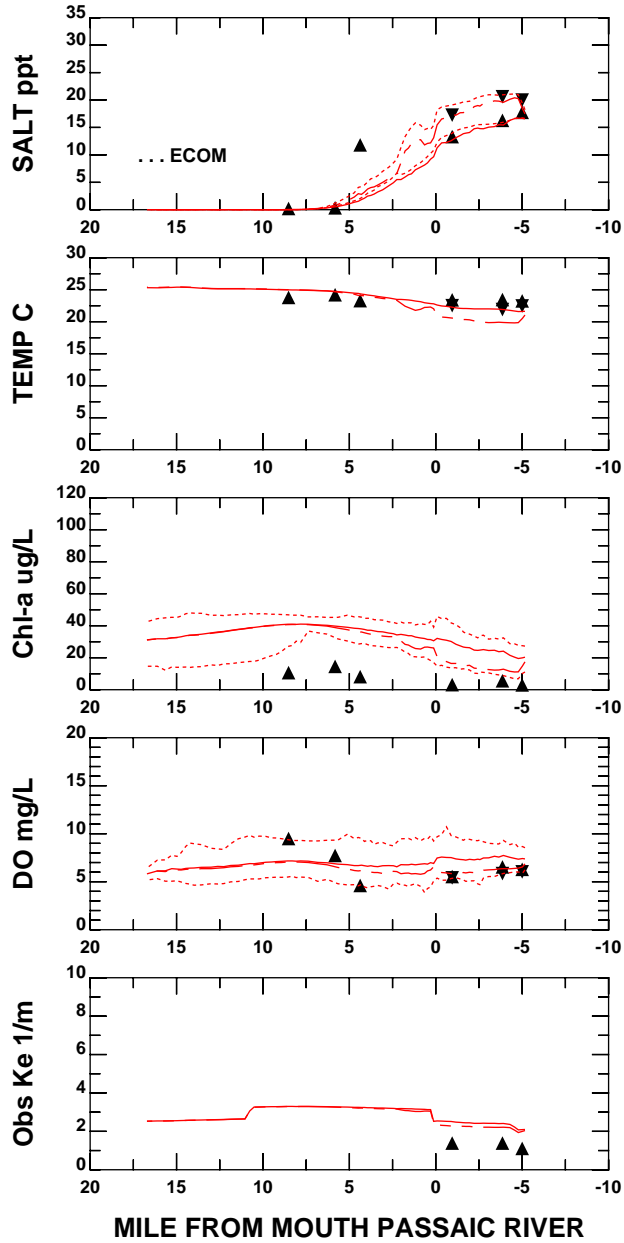
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

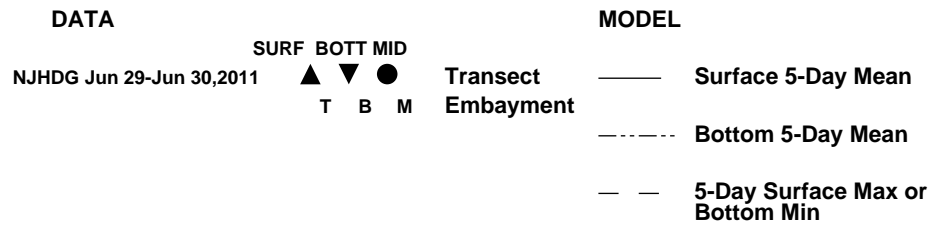
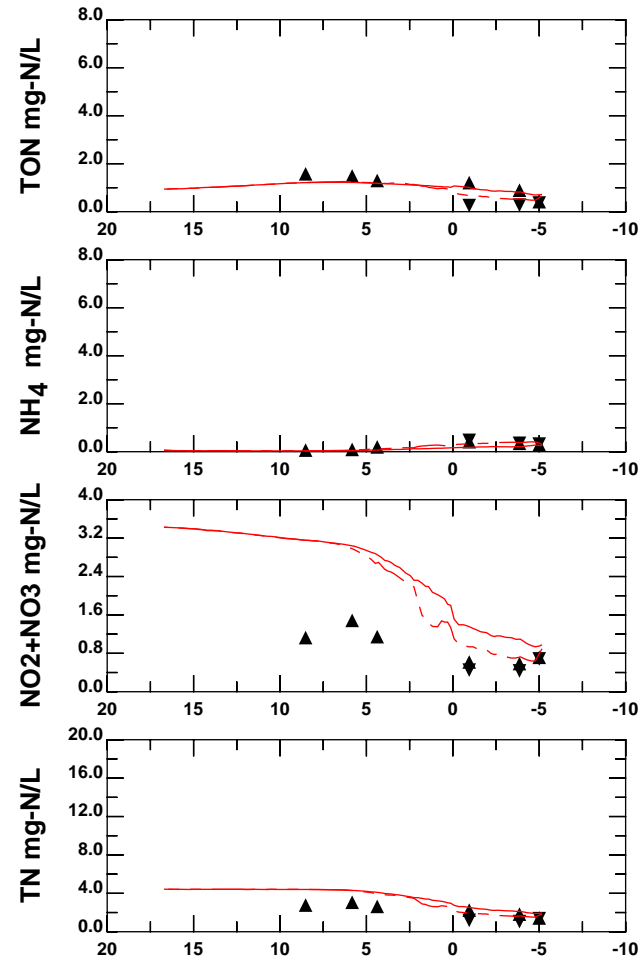
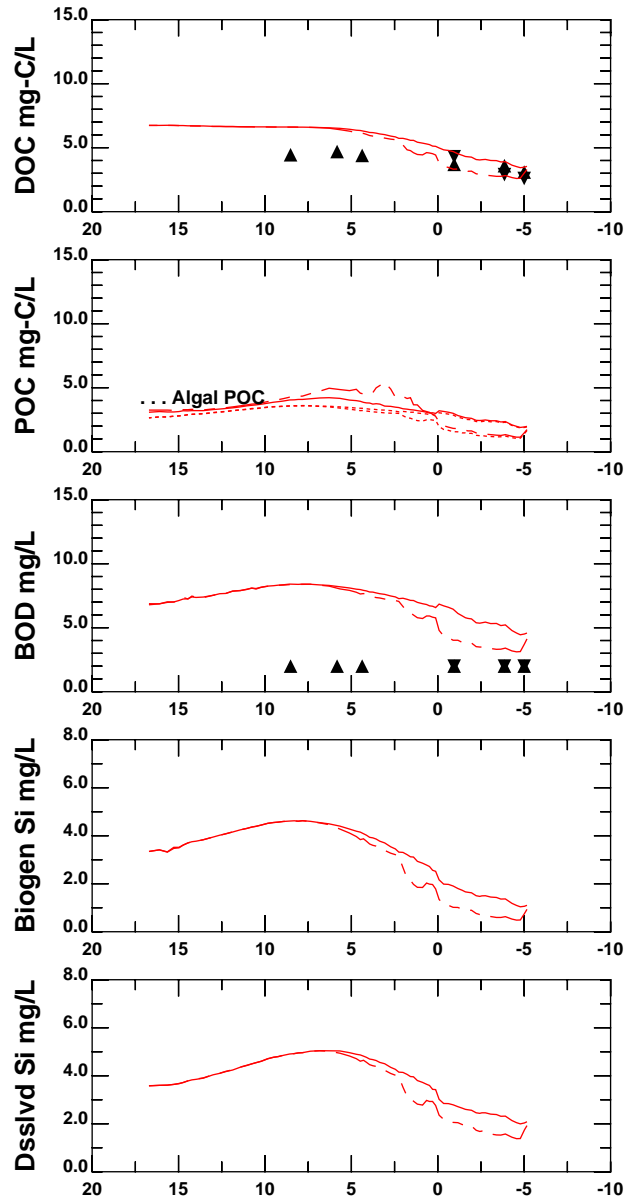


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

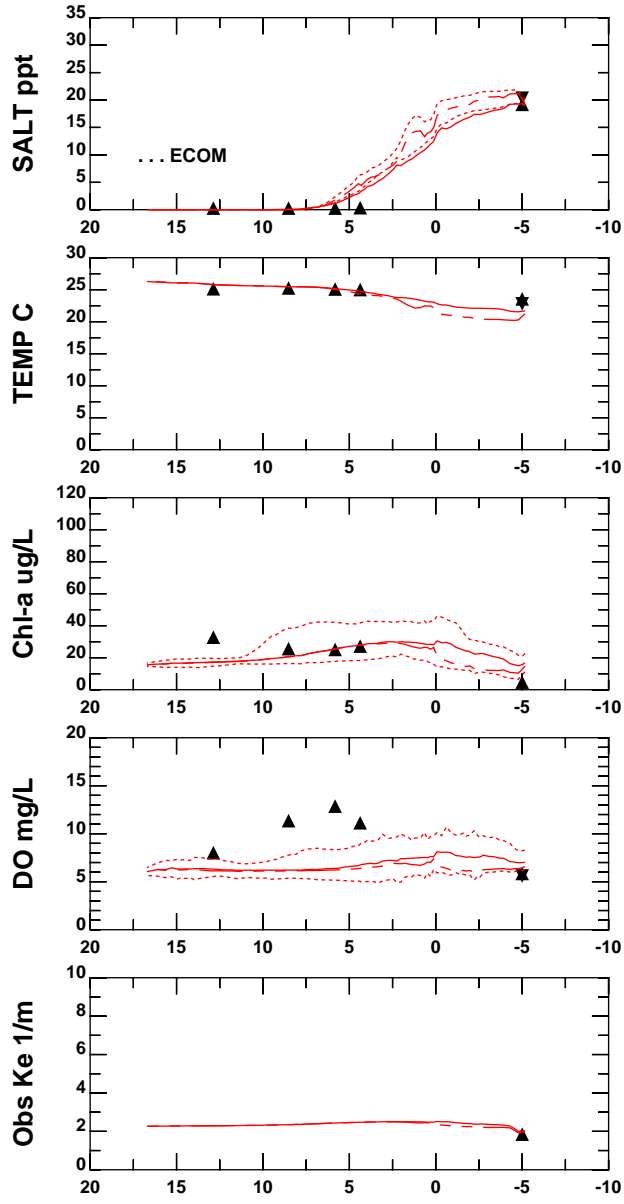


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



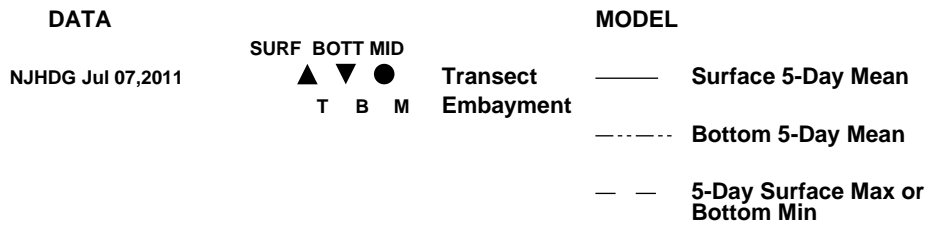
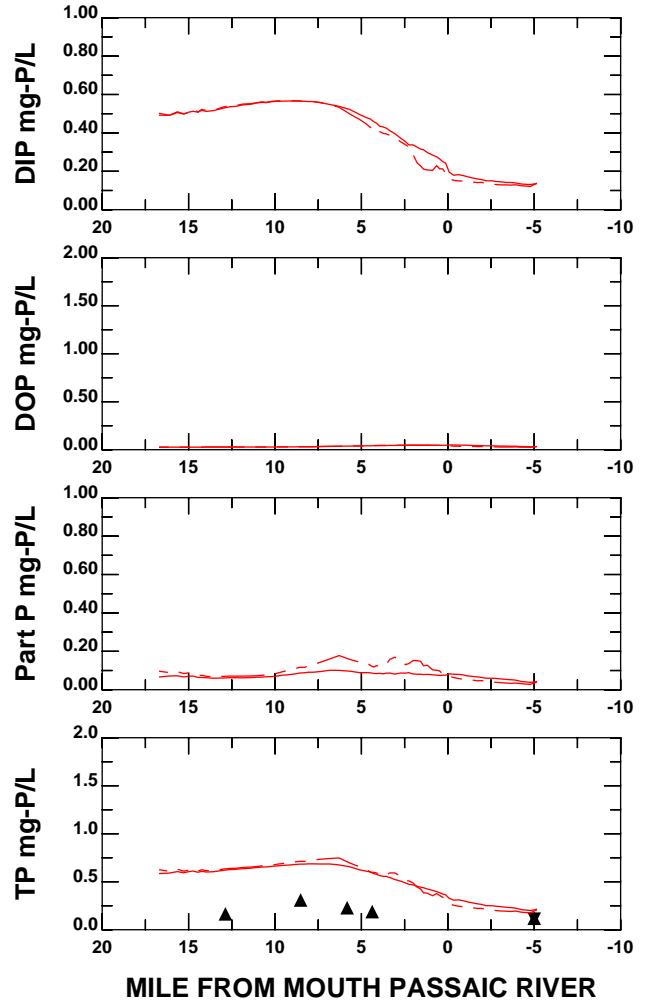


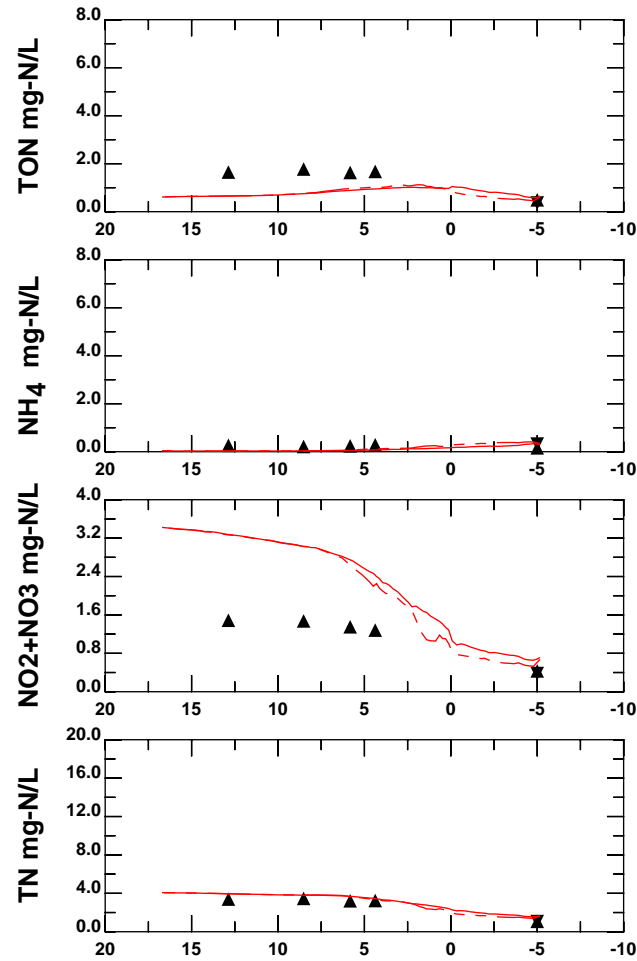
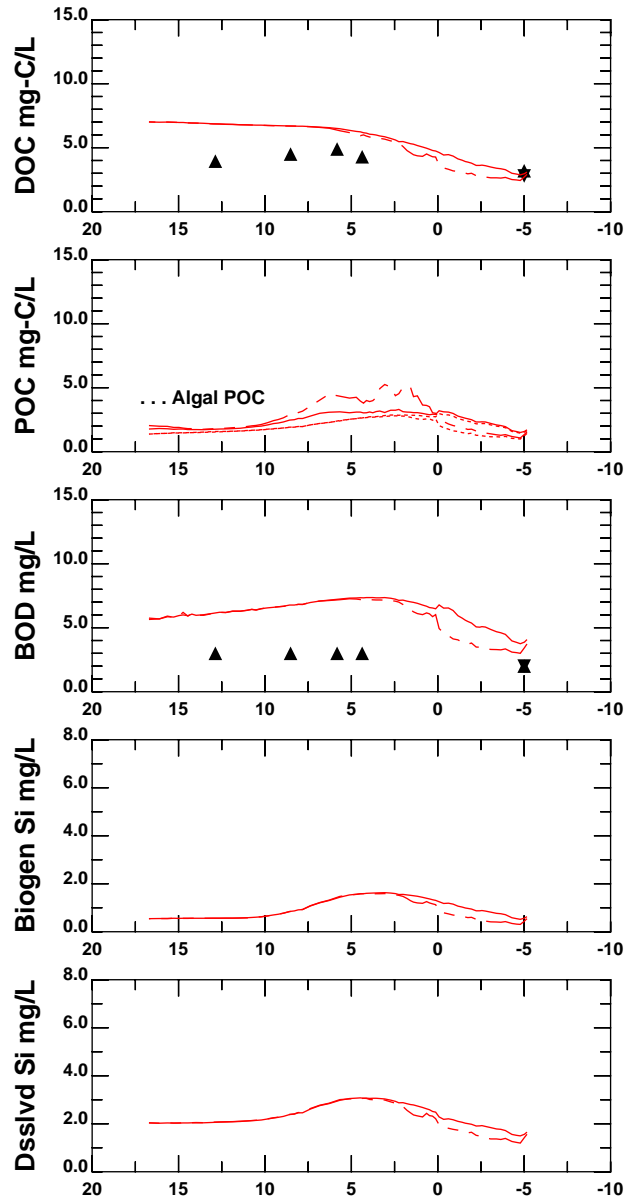
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





DATA

NJHDG Jul 07, 2011

SURF BOTT MID

▲ ▼ ●  
T B M

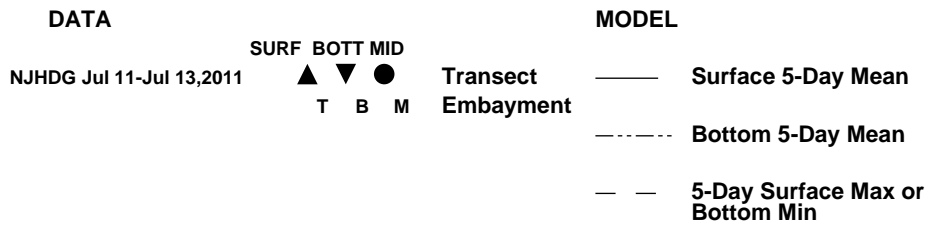
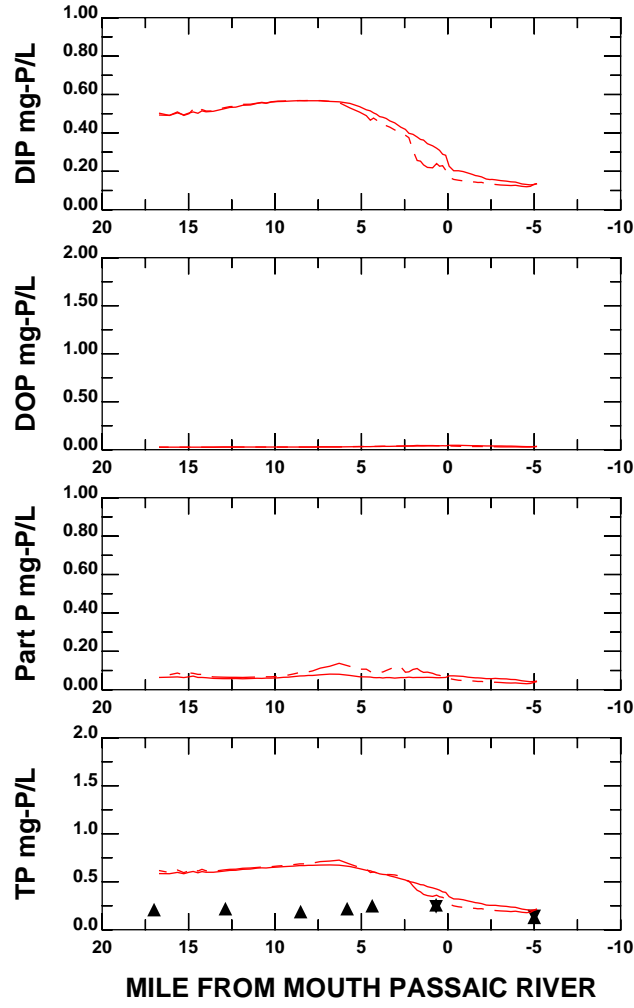
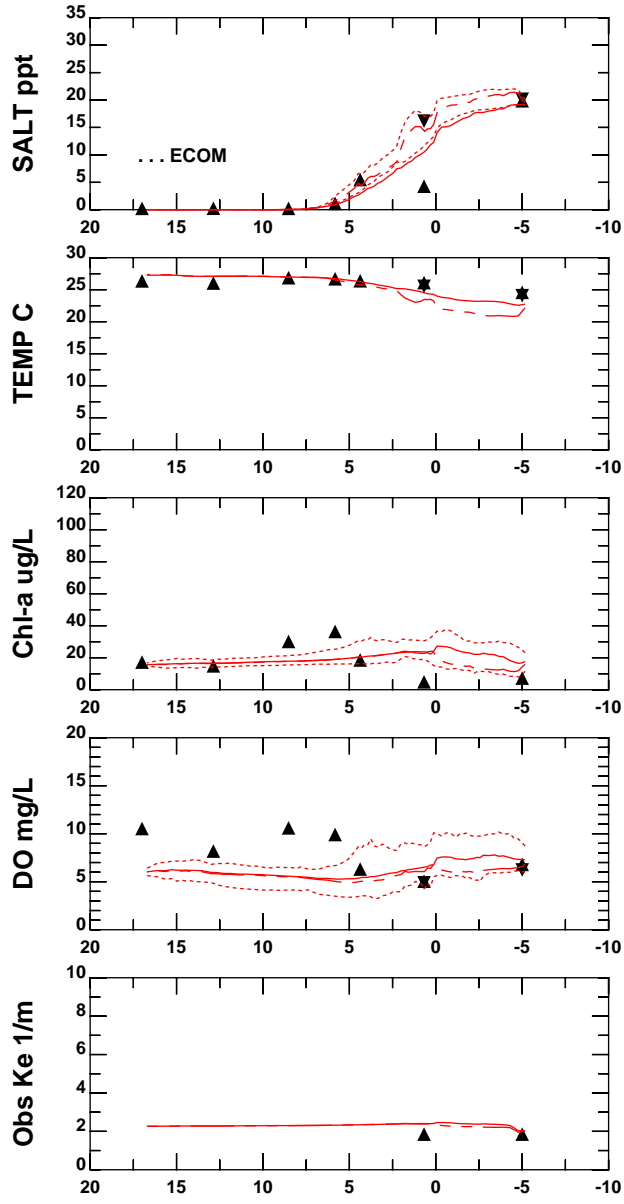
Transect  
Embayment

MODEL

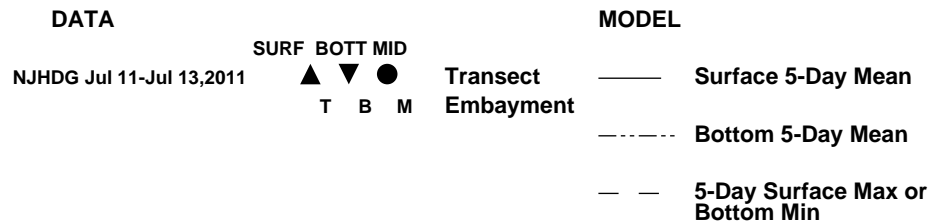
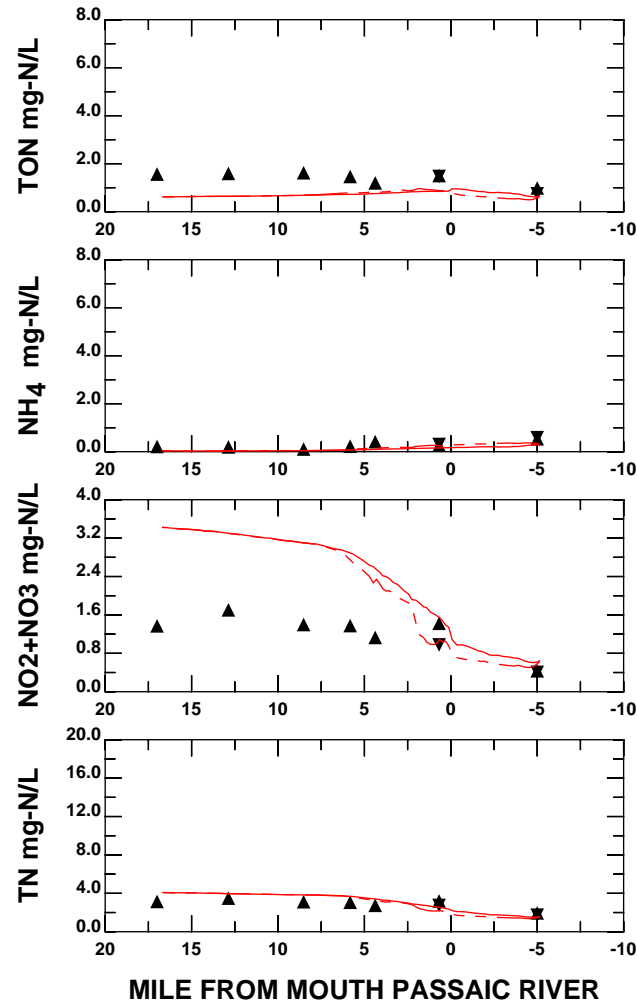
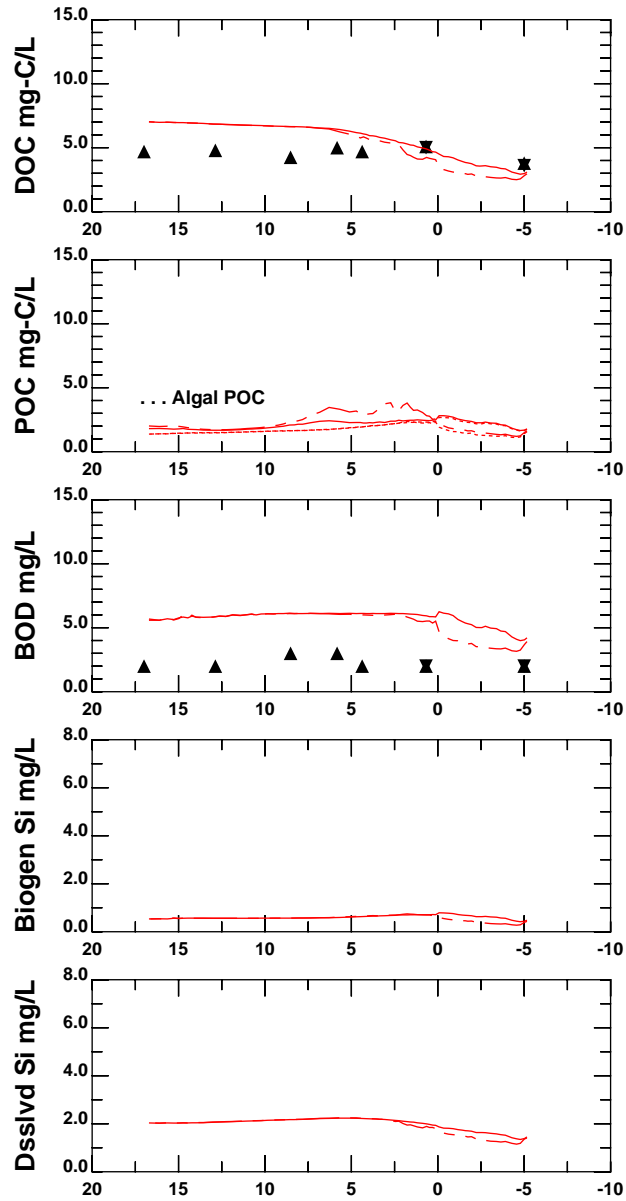
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - 5-Day Surface Max or Bottom Min

## PASSAIC RIVER AND NEWARK BAY

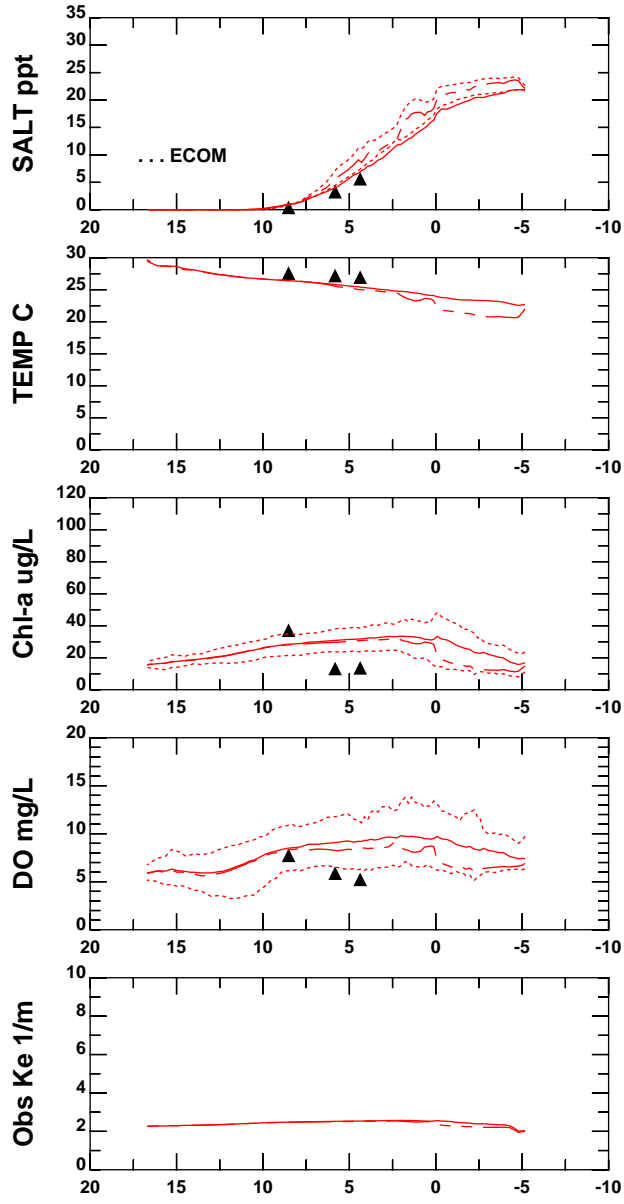
RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

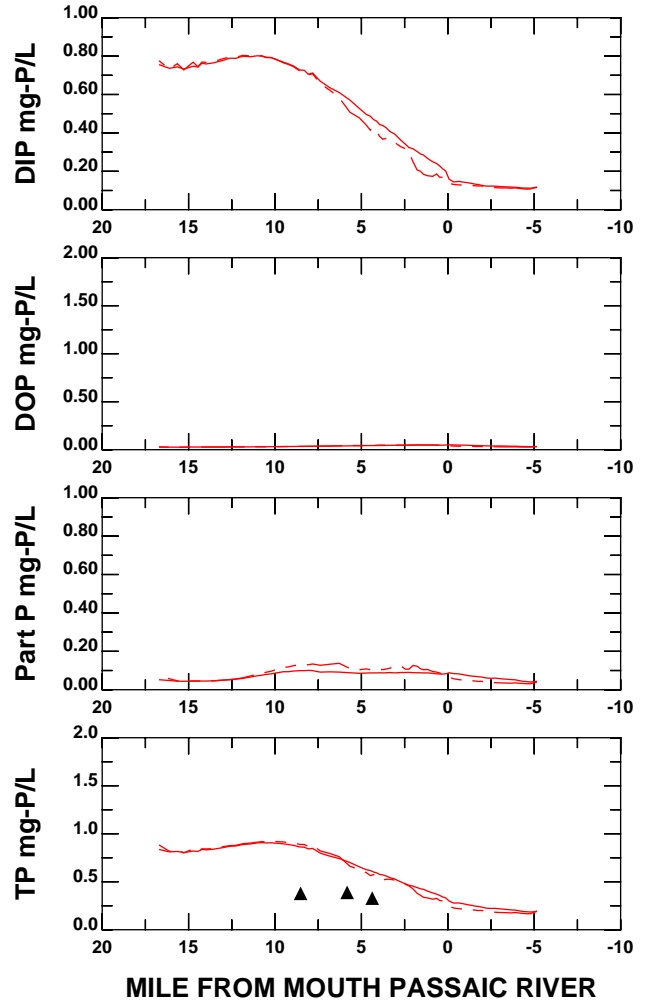


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

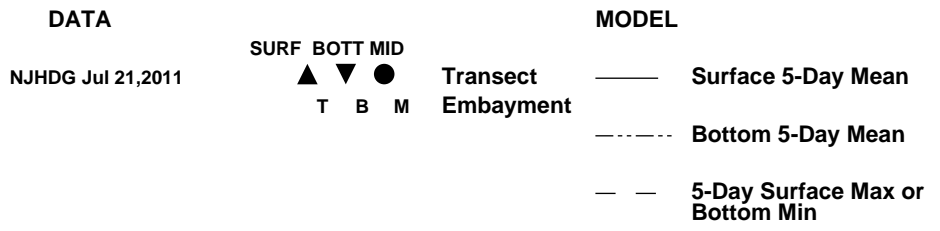


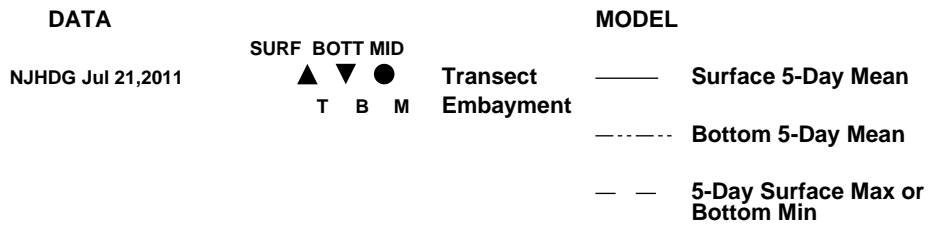
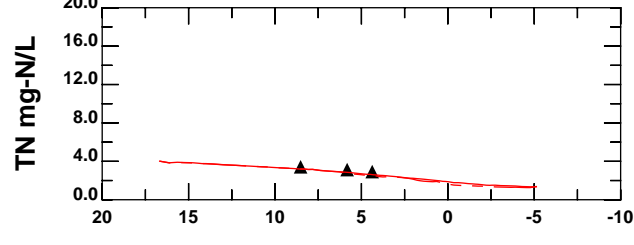
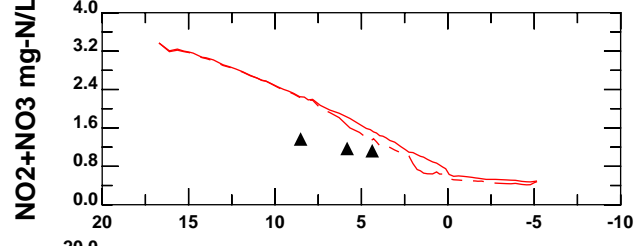
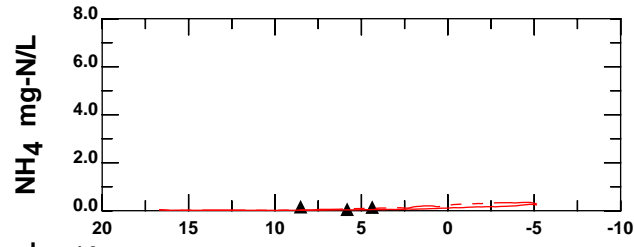
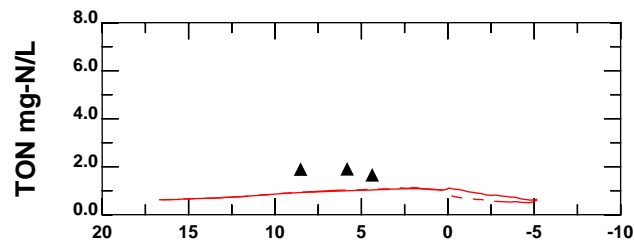
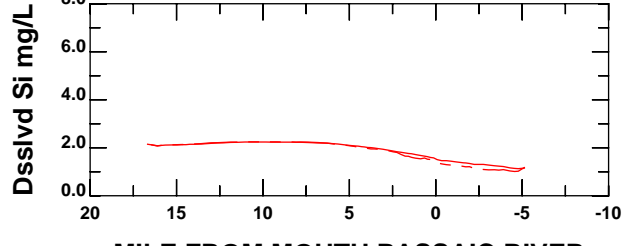
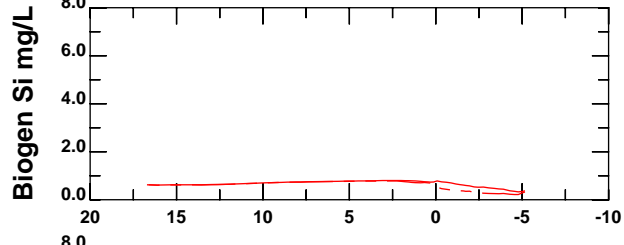
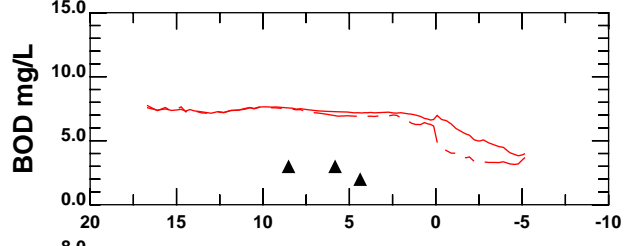
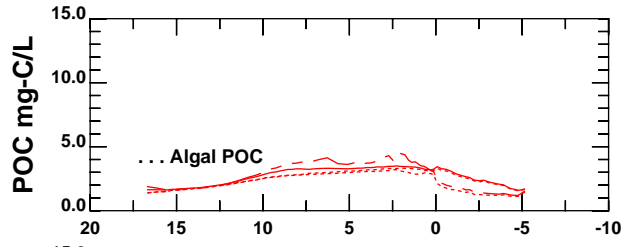
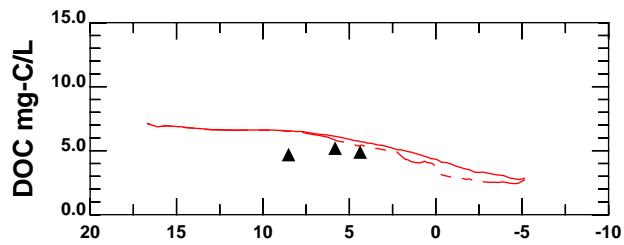
MILE FROM MOUTH PASSAIC RIVER

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

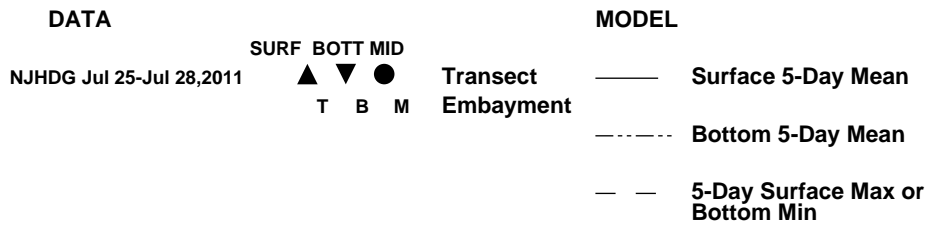
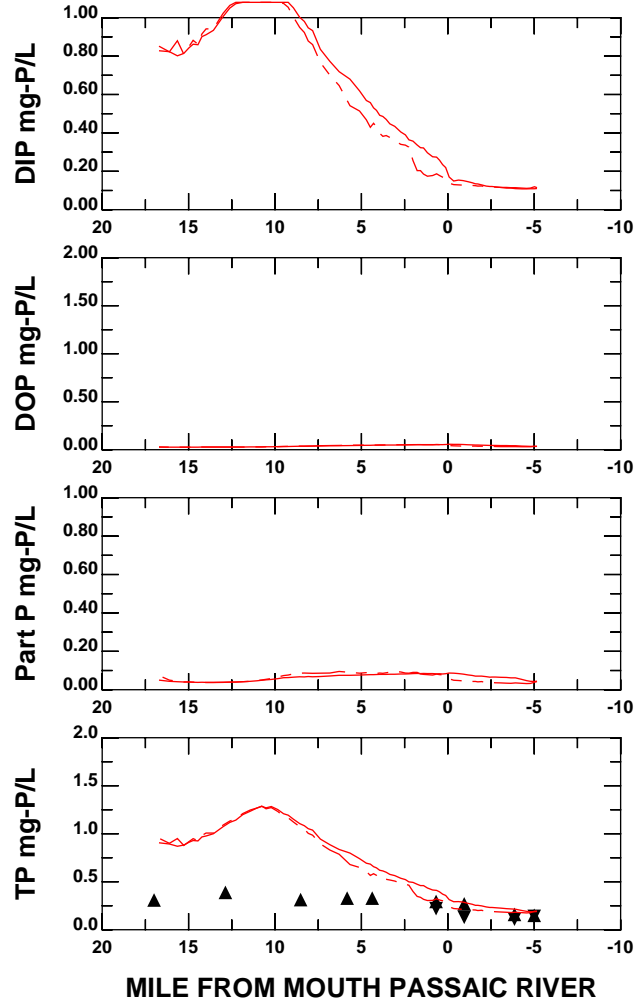
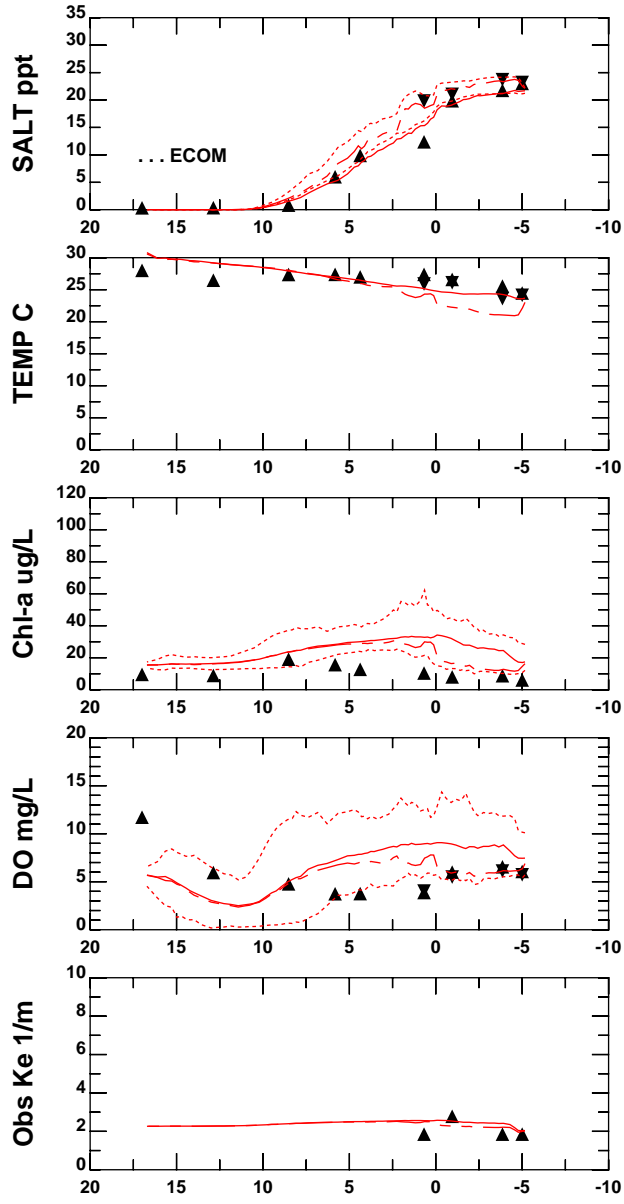


MILE FROM MOUTH PASSAIC RIVER



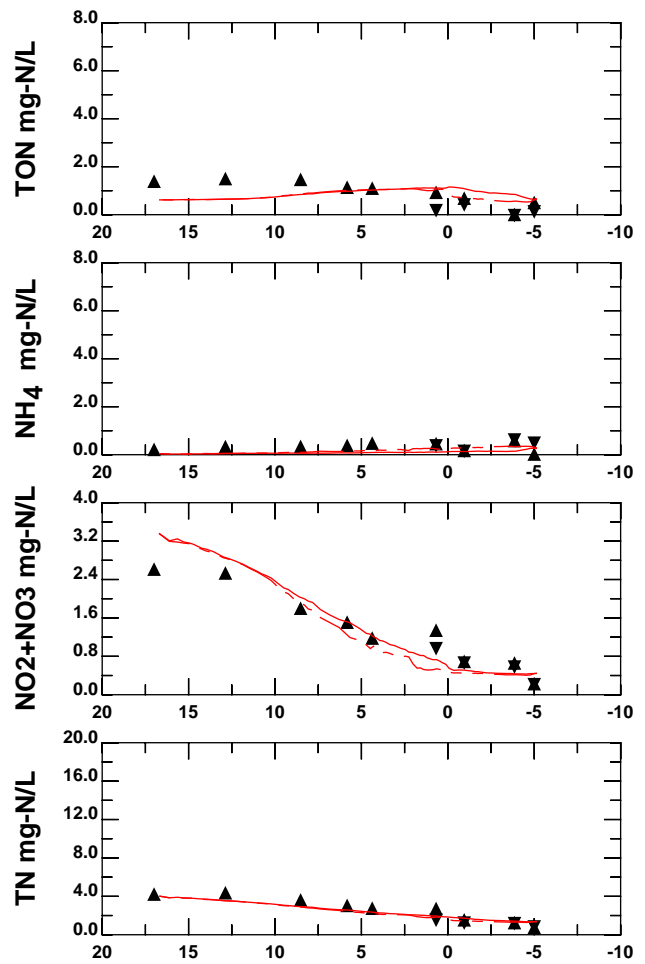
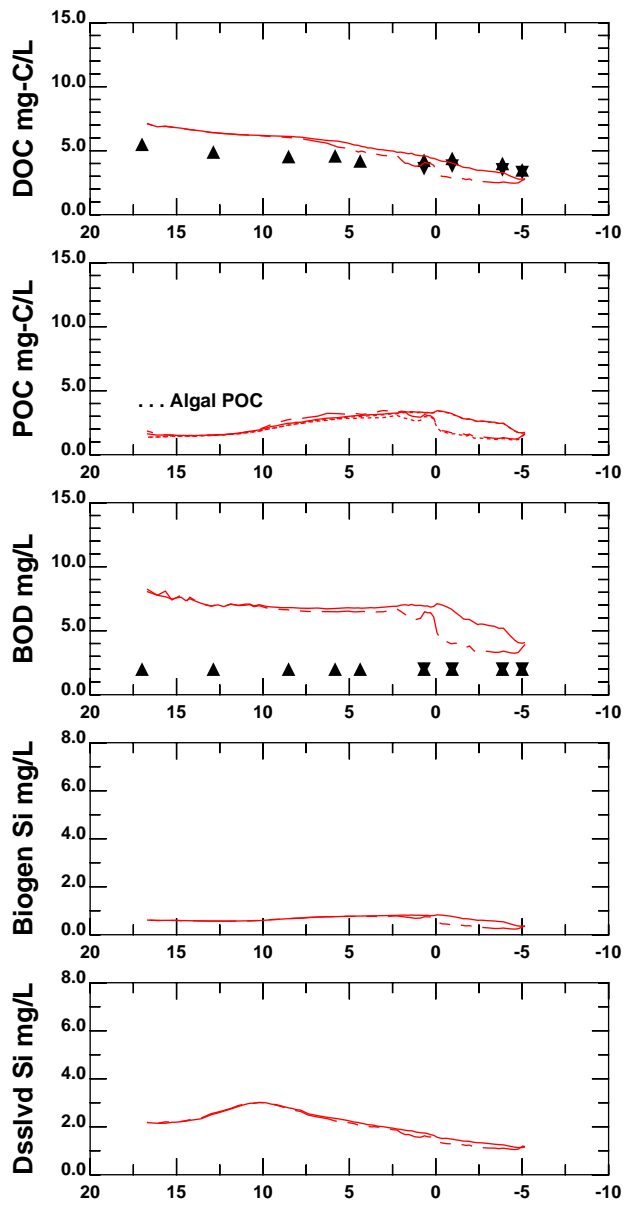


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





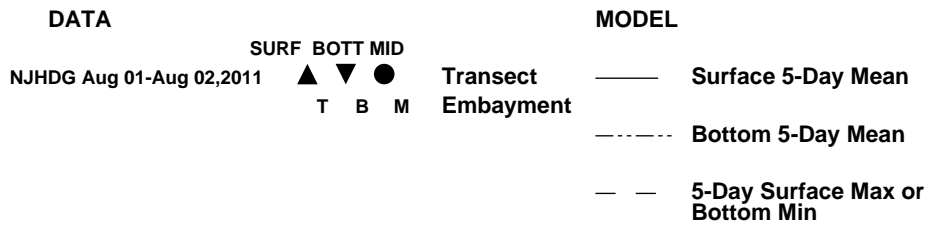
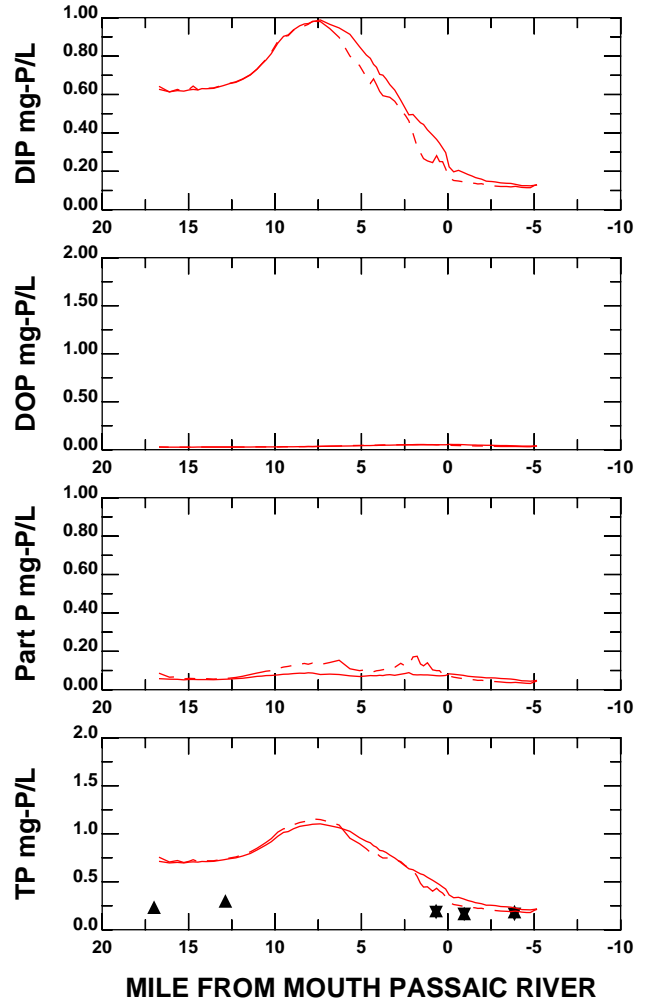
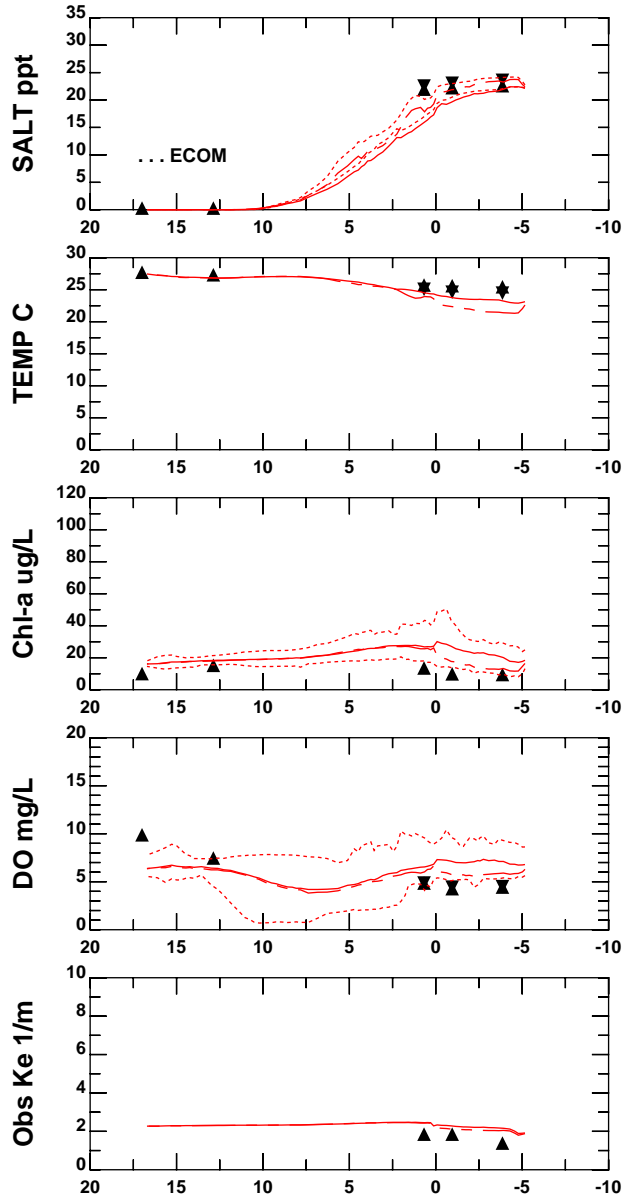
**DATA**  
 NJHDG Jul 25-Jul 28, 2011

**MODEL**

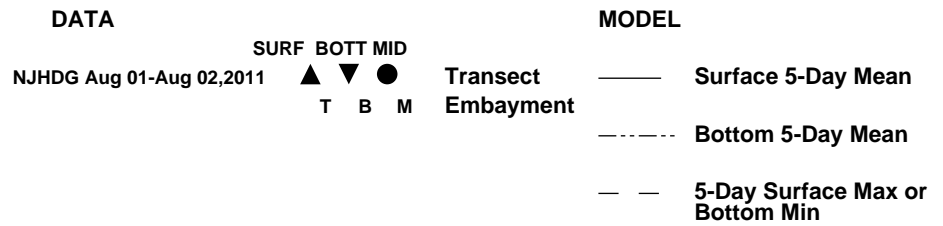
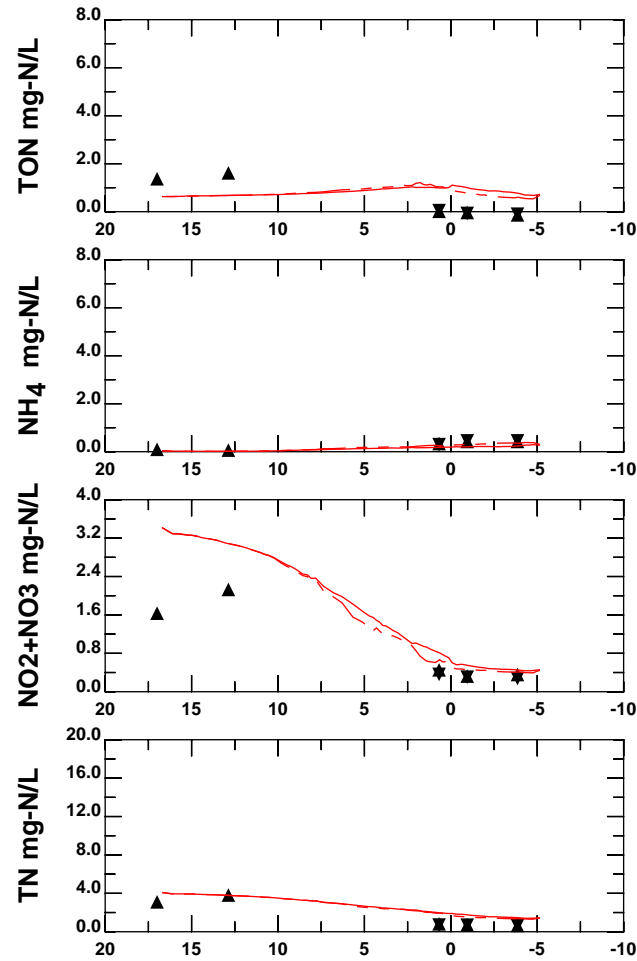
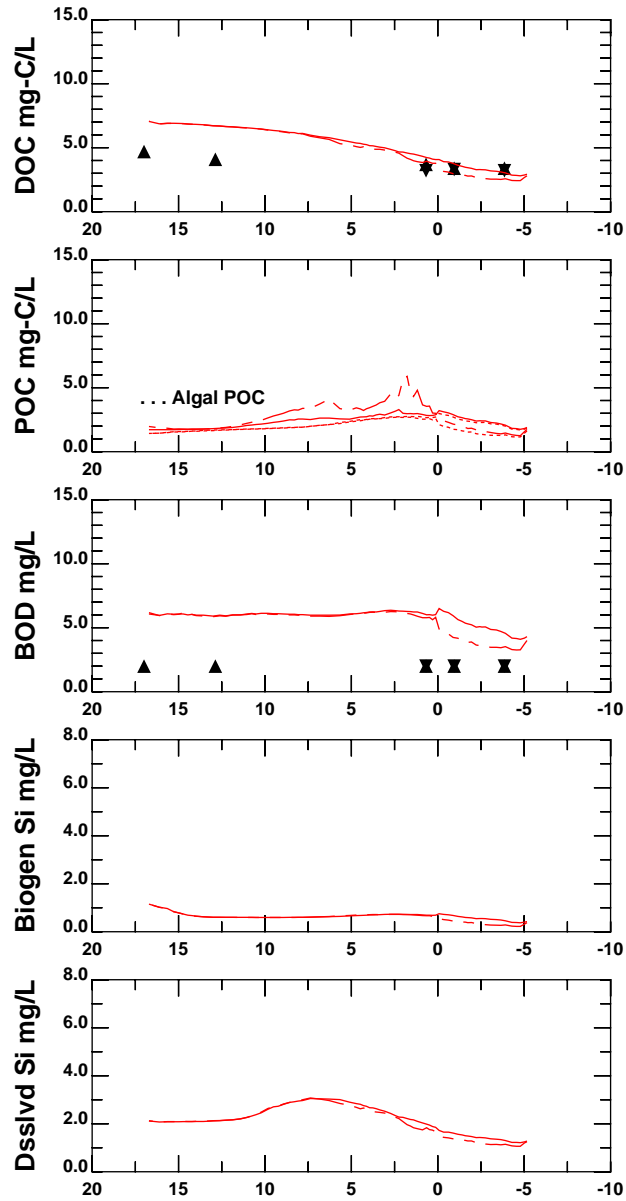
SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

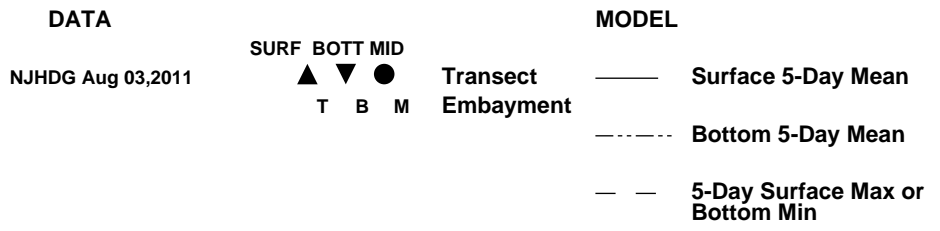
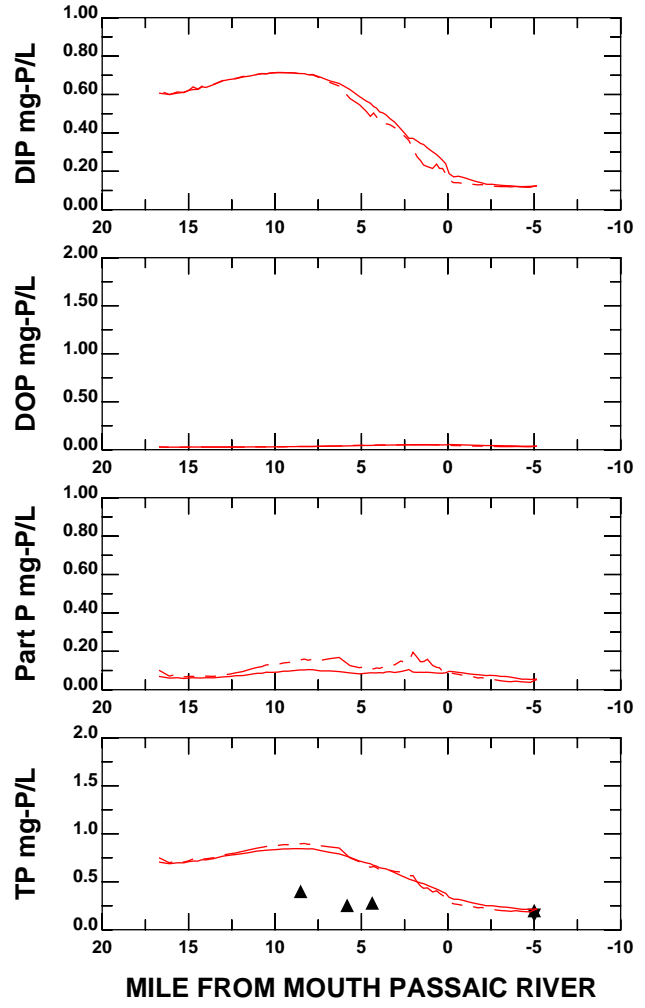
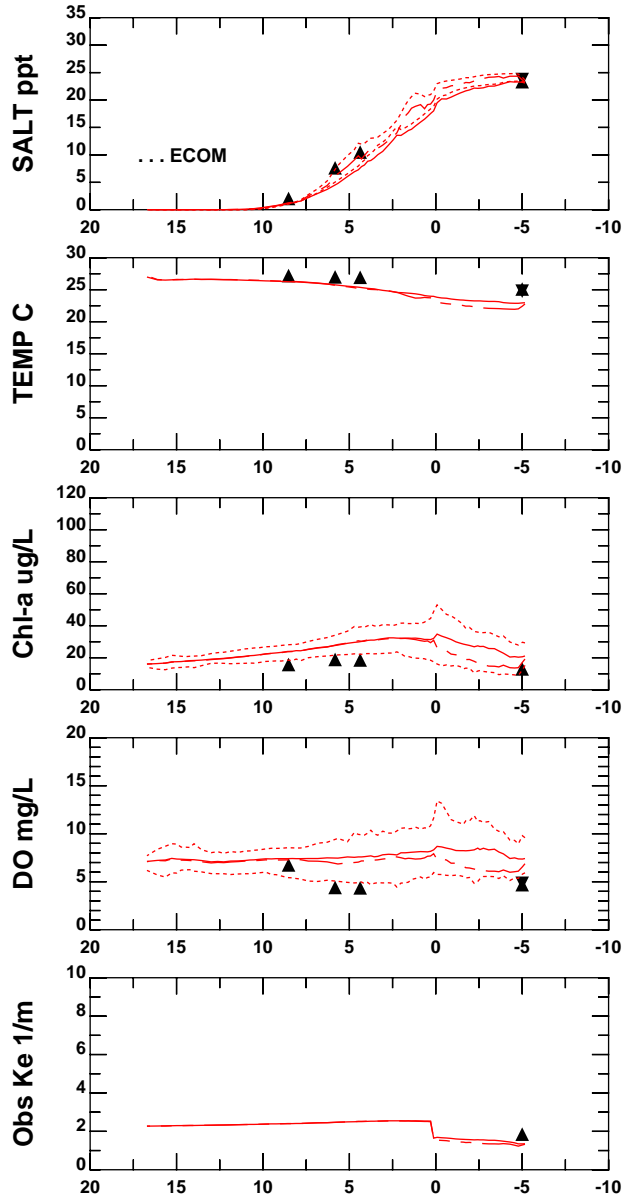
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



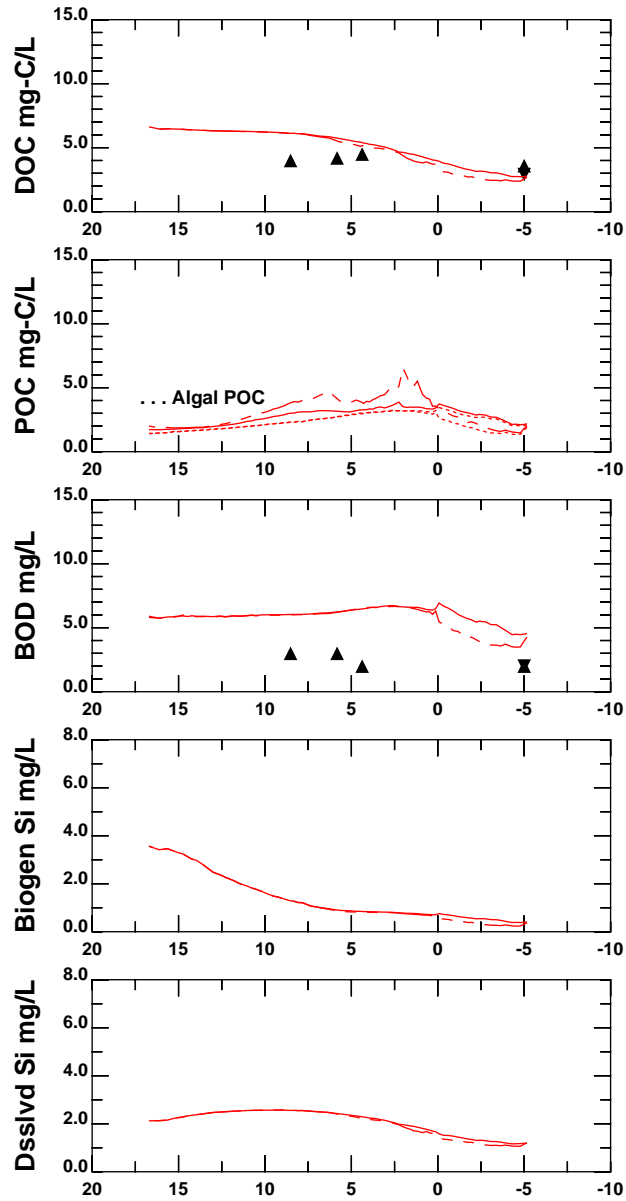
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



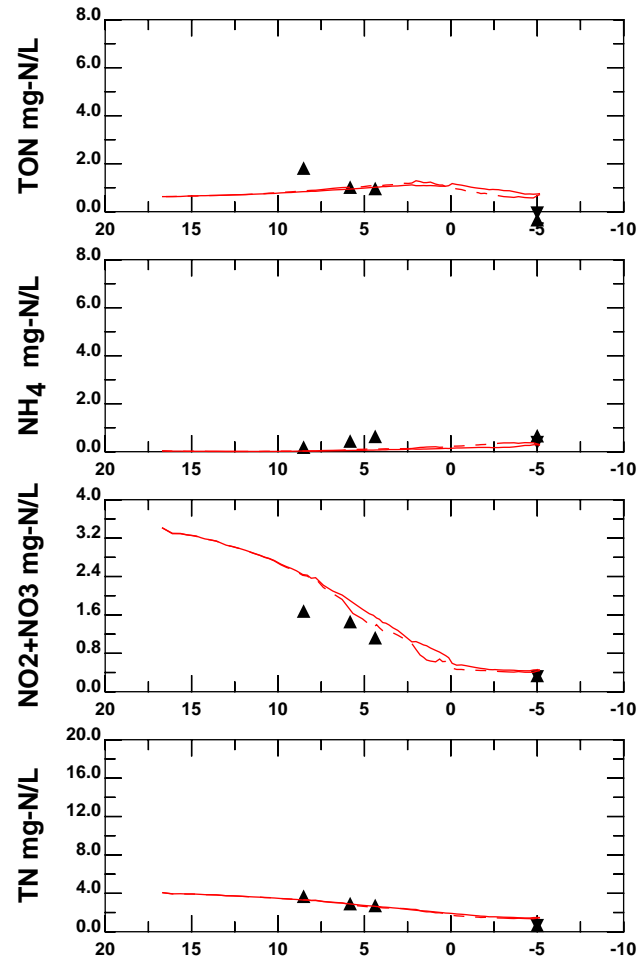
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

### PASSAIC RIVER AND NEWARK BAY

RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

DATA

NJHDG Aug 03,2011

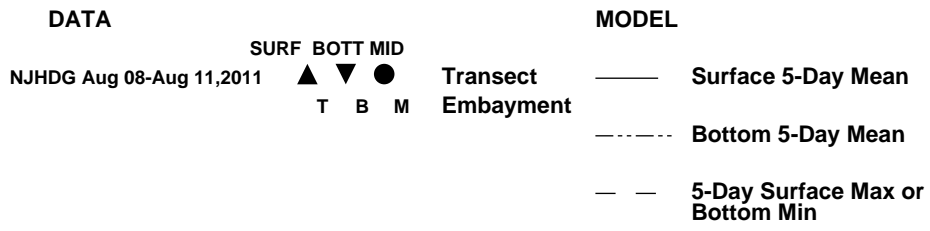
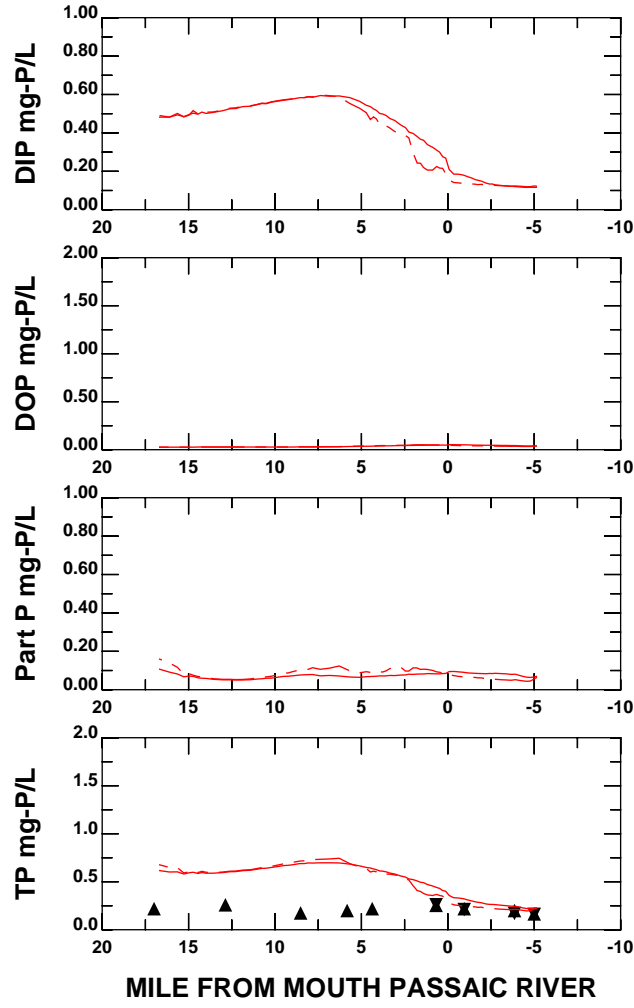
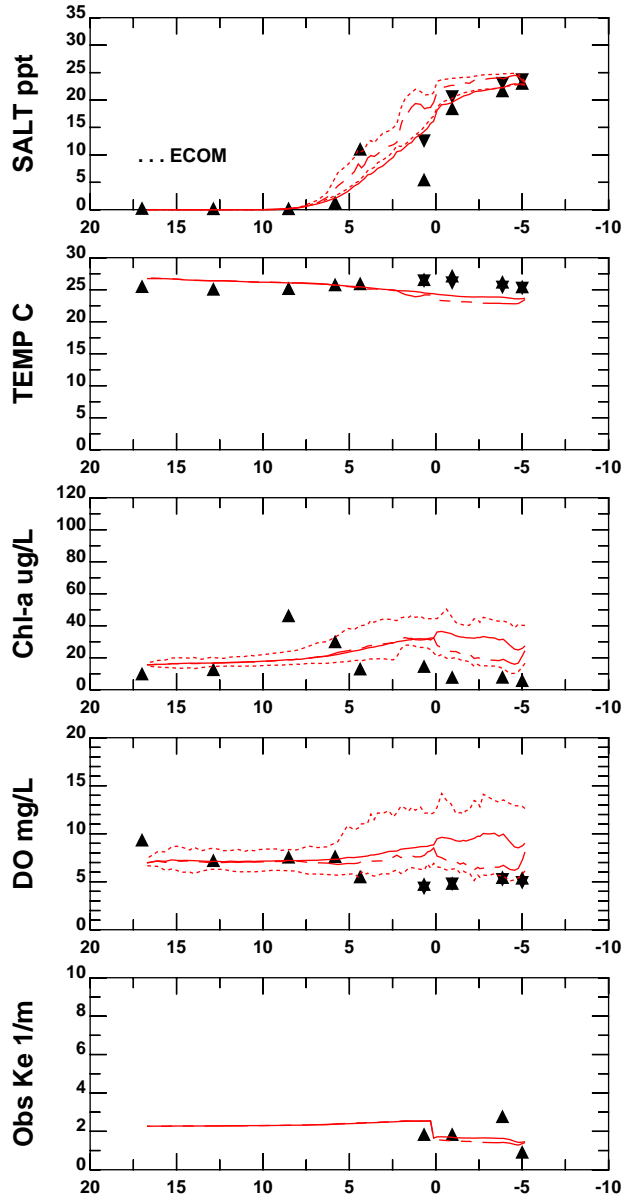
SURF BOTT MID

▲ ▼ ●  
T B M

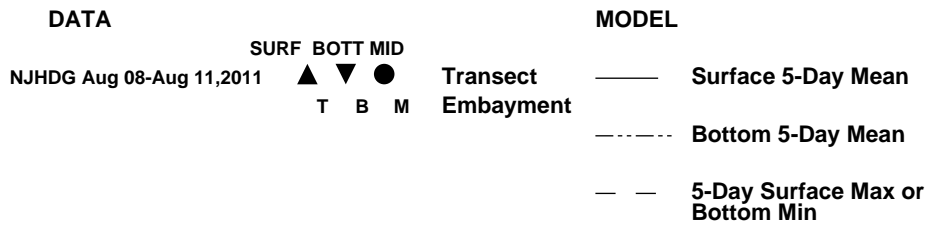
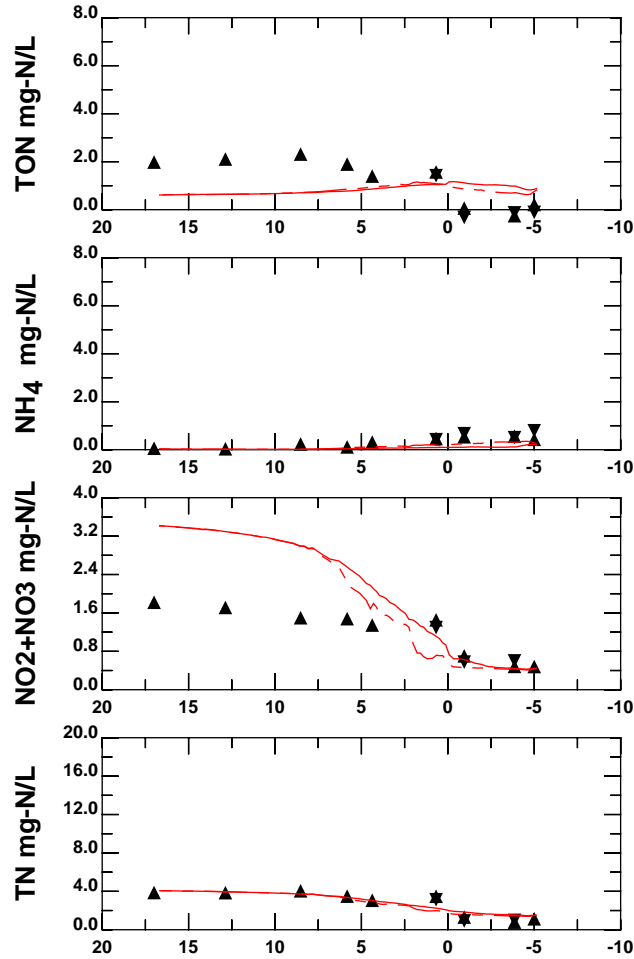
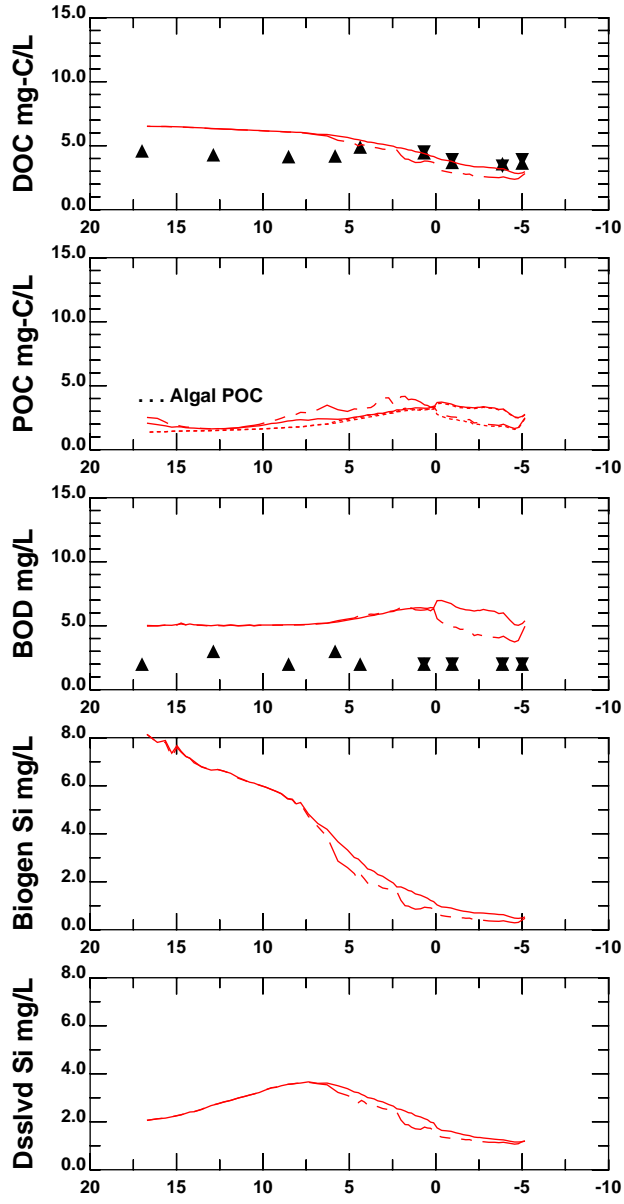
Transect  
Embayment

MODEL

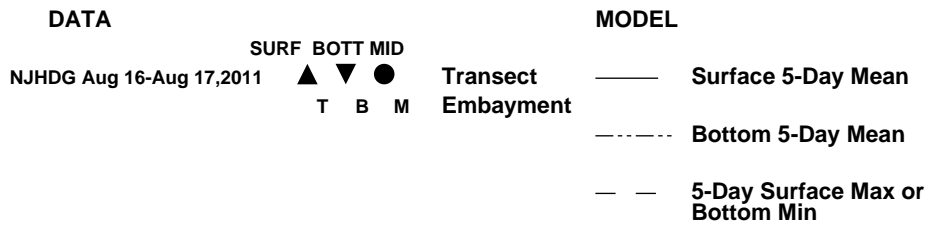
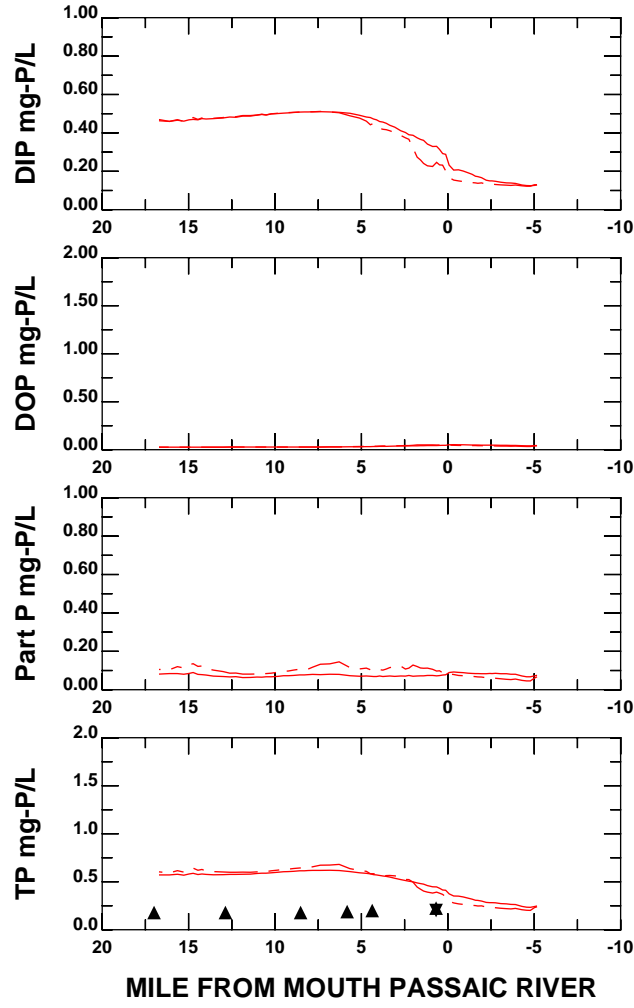
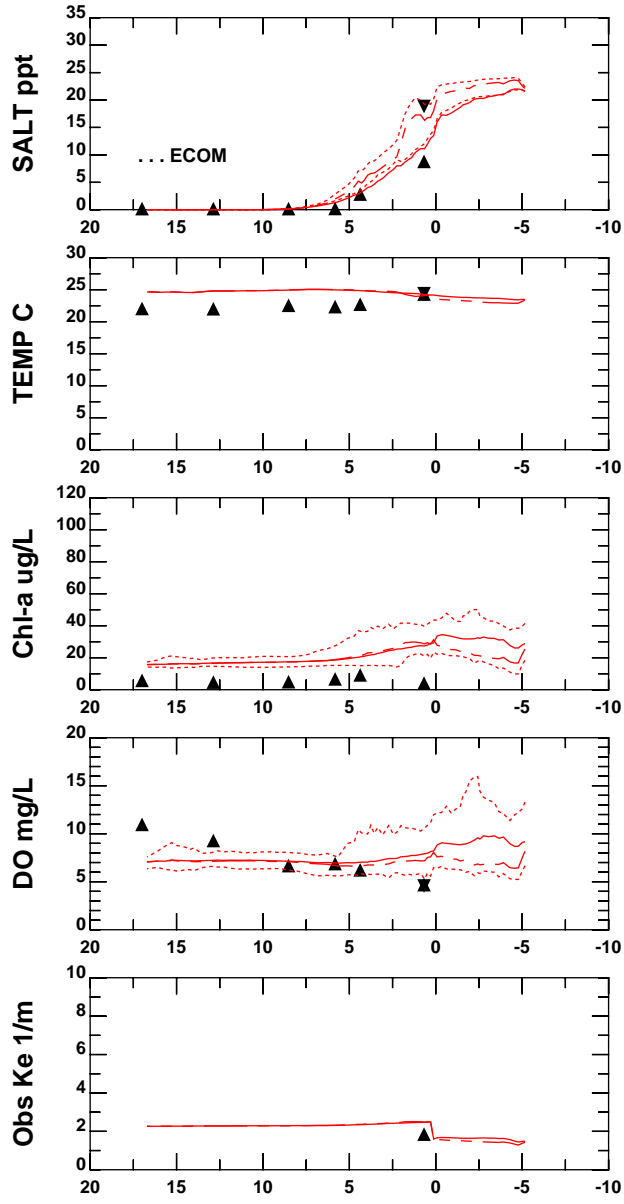
— Surface 5-Day Mean  
- - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

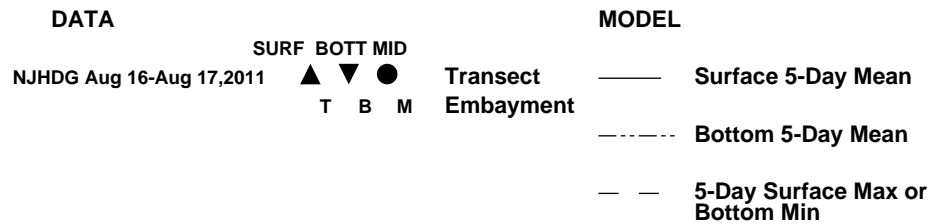
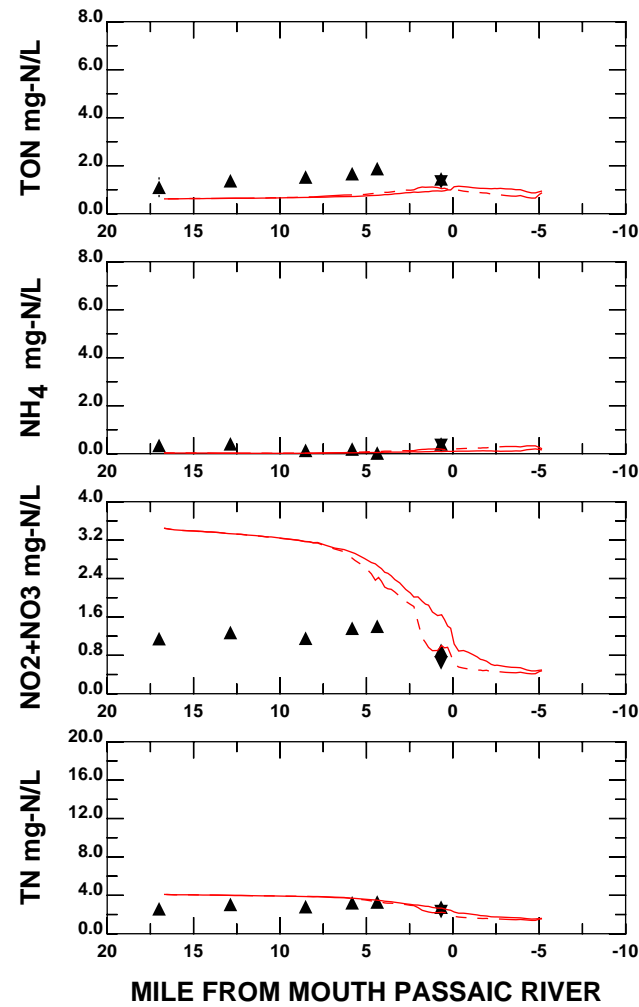
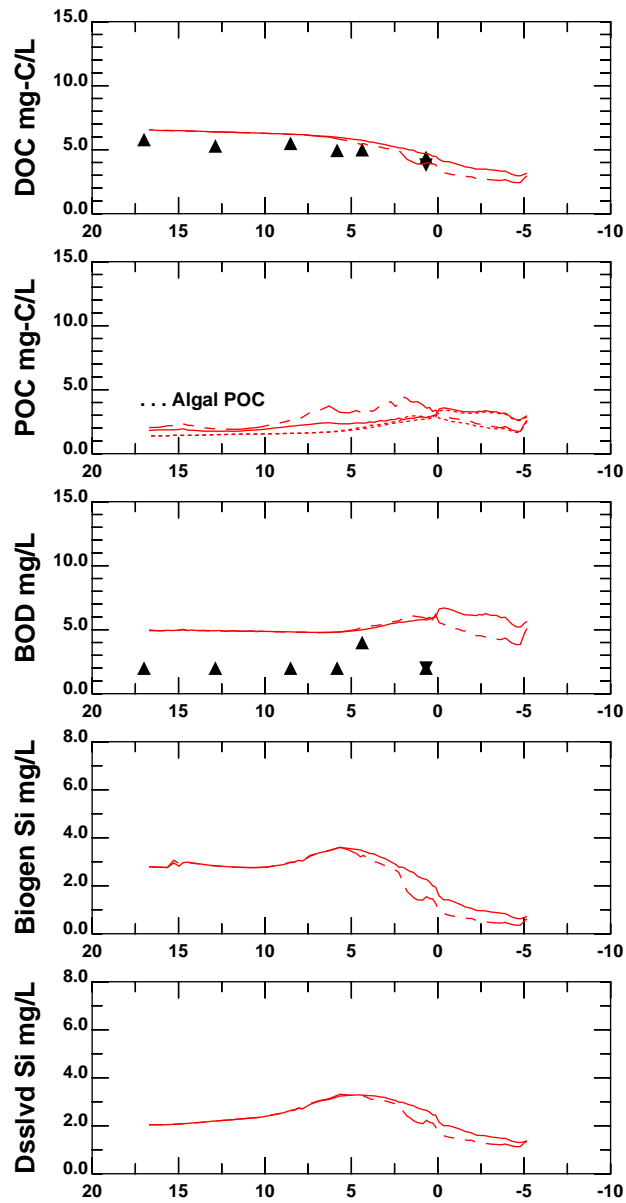


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

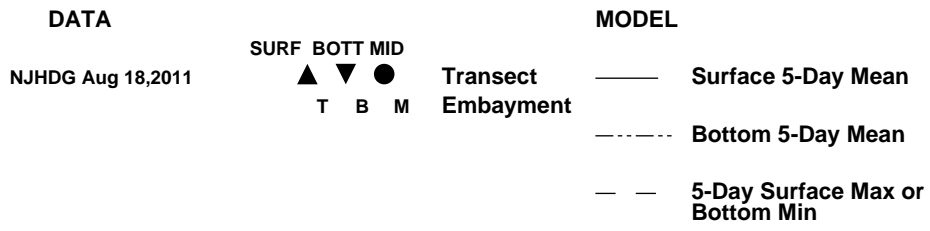
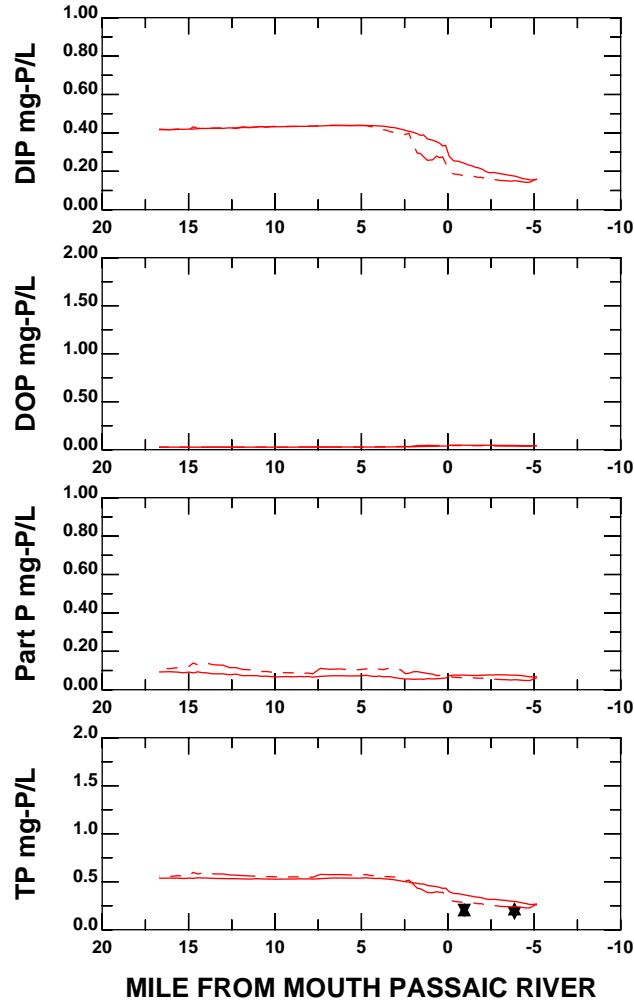
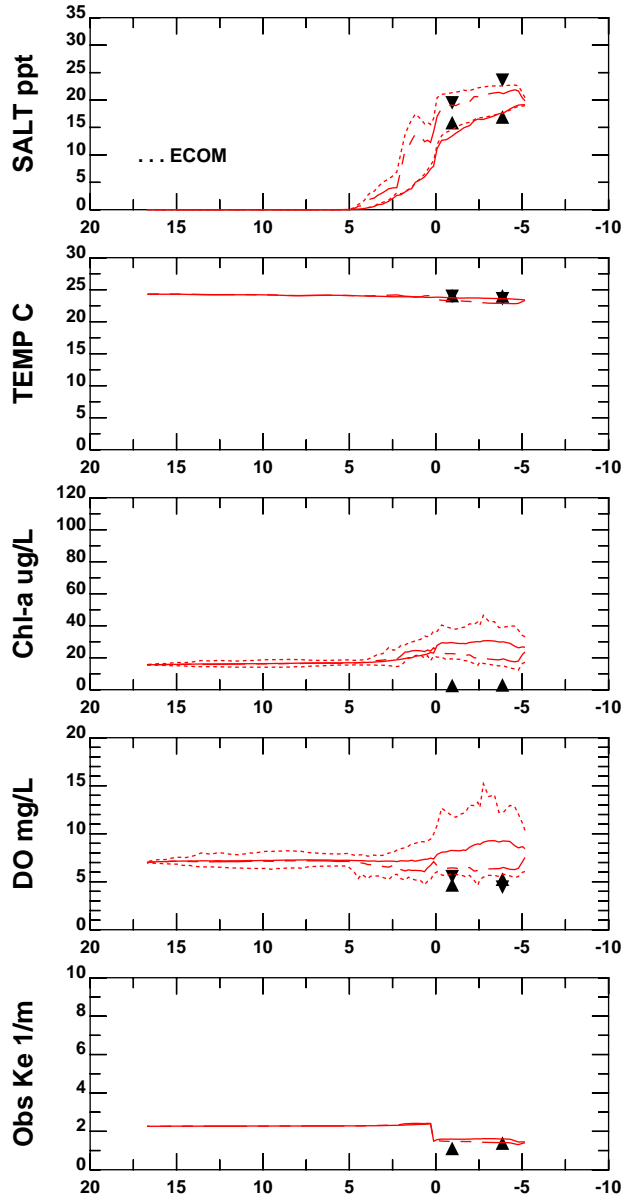


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

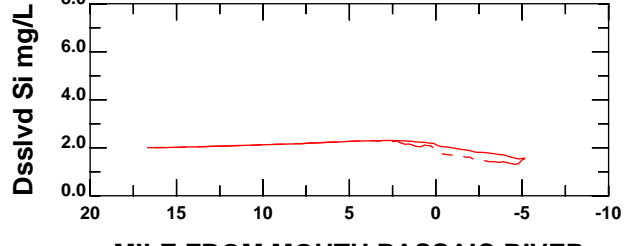
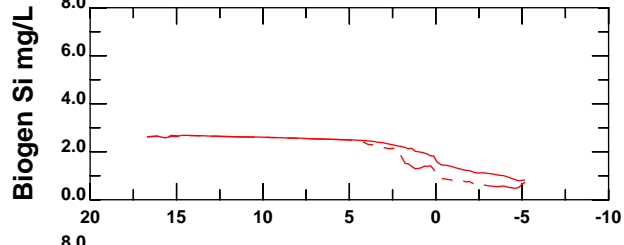
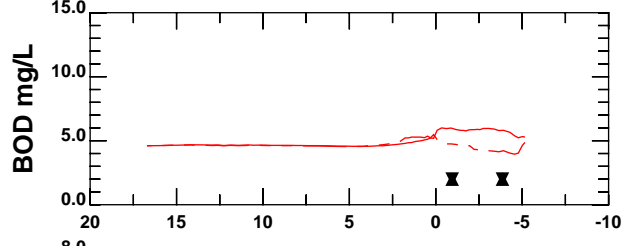
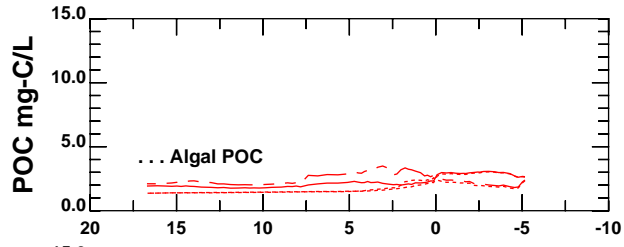
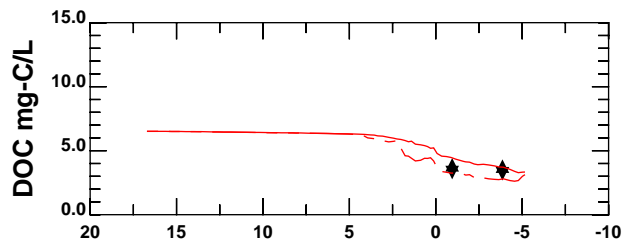




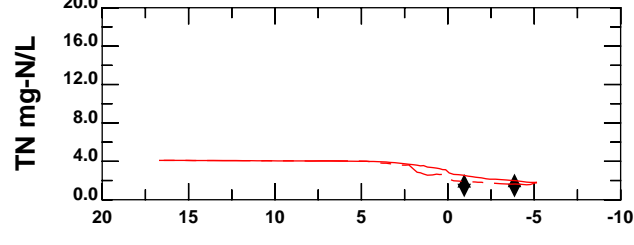
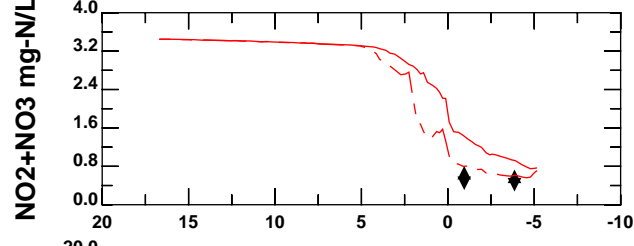
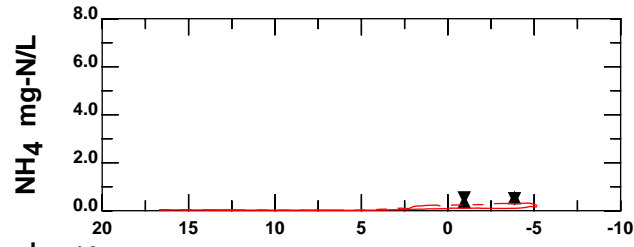
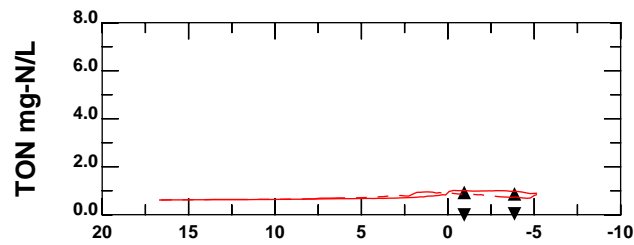
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



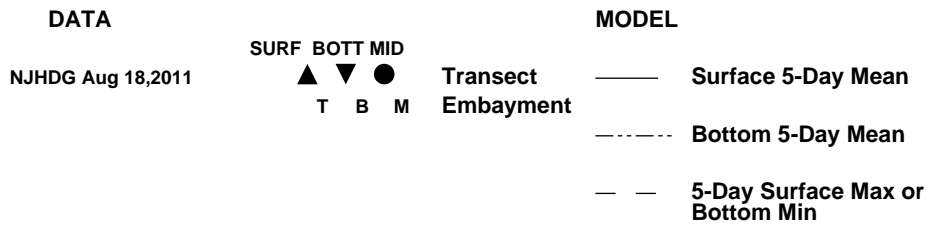
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



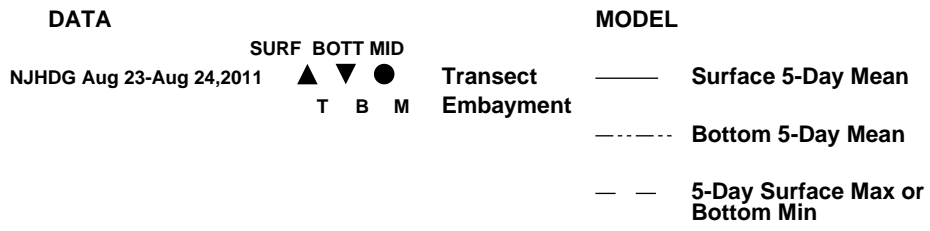
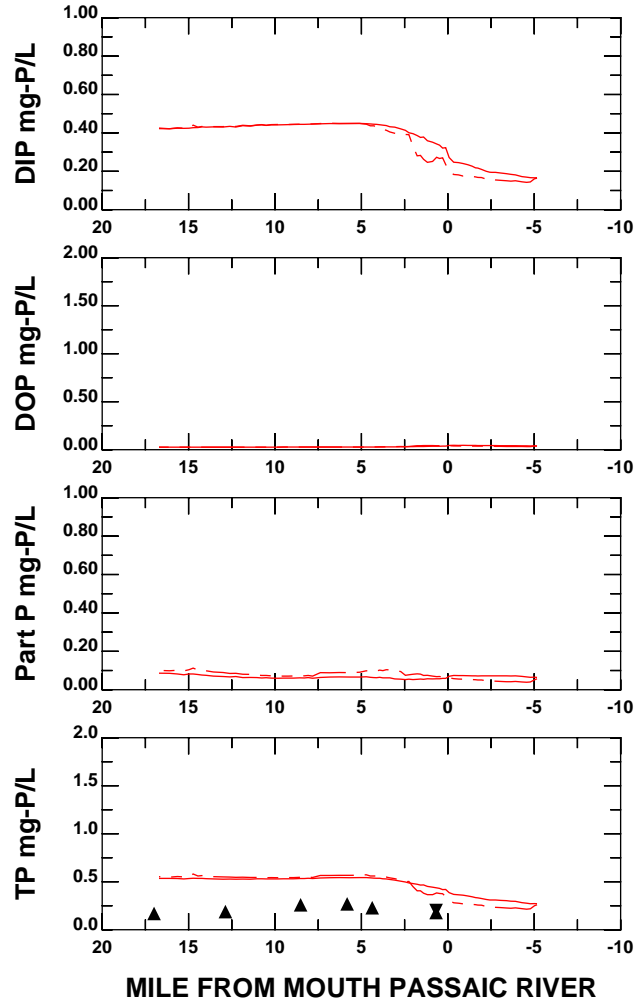
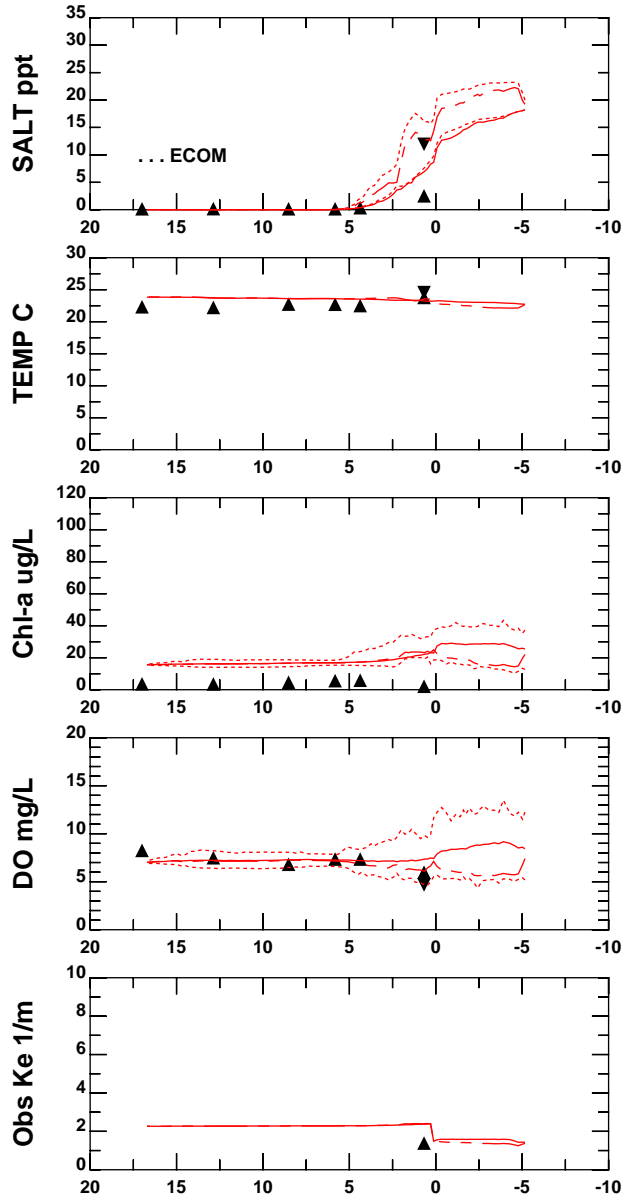
MILE FROM MOUTH PASSAIC RIVER



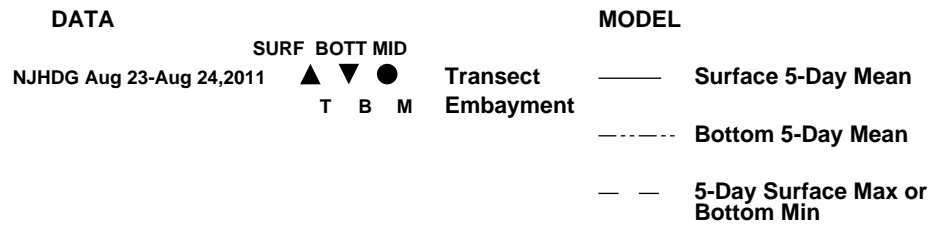
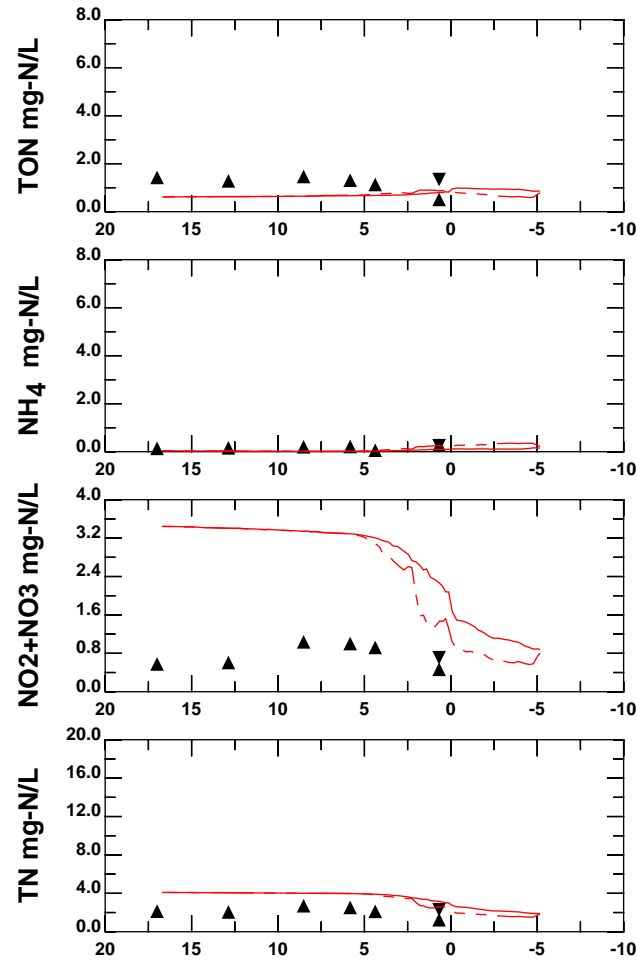
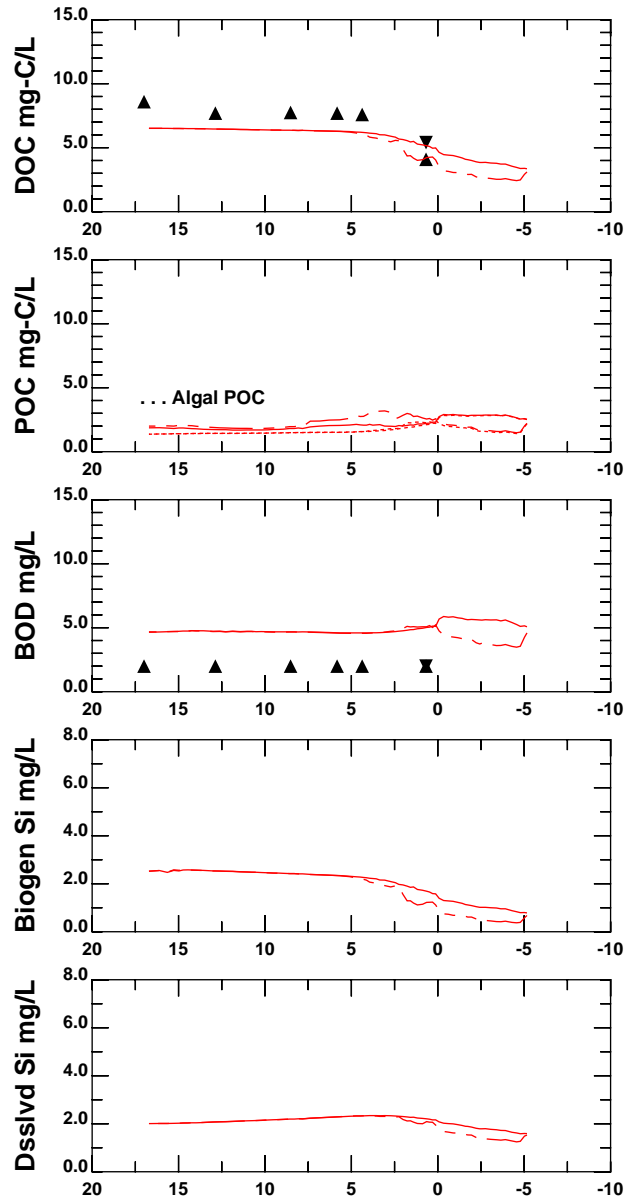
MILE FROM MOUTH PASSAIC RIVER



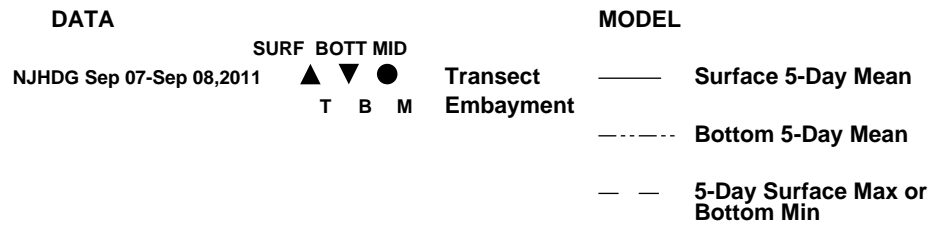
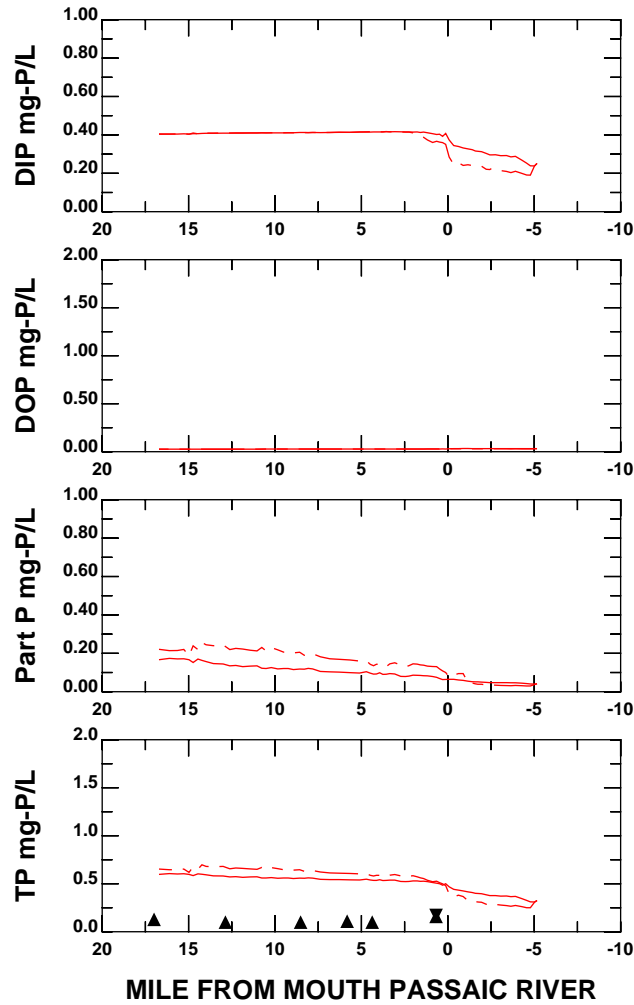
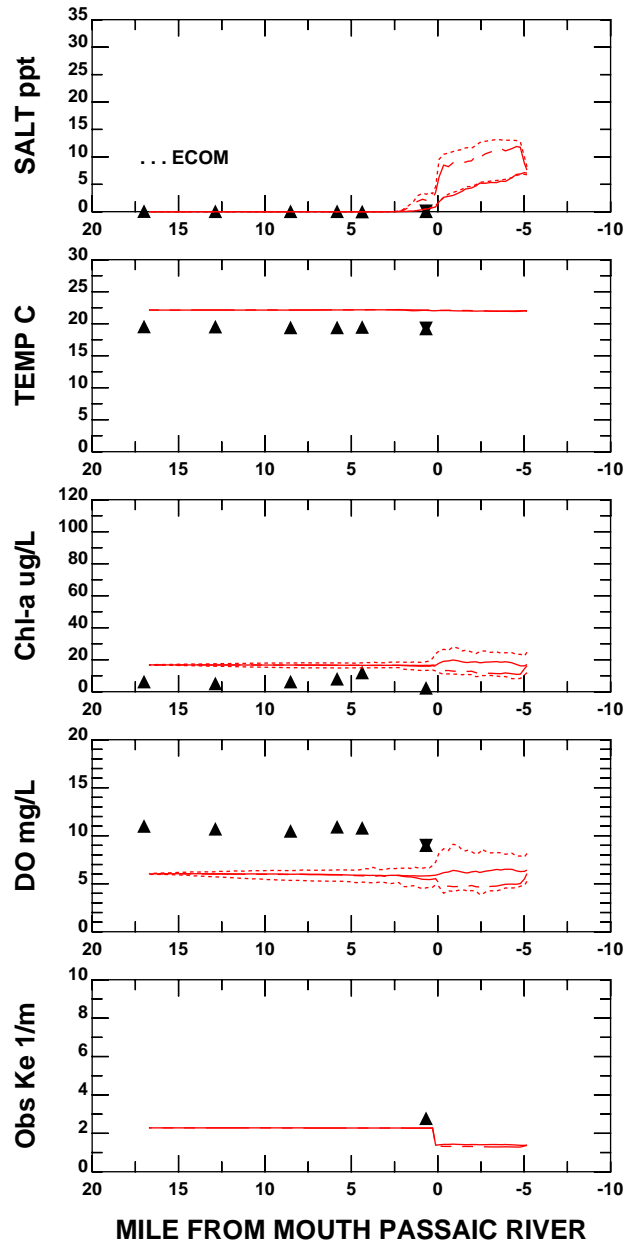
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



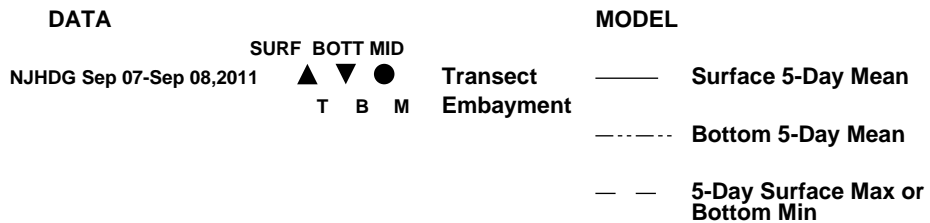
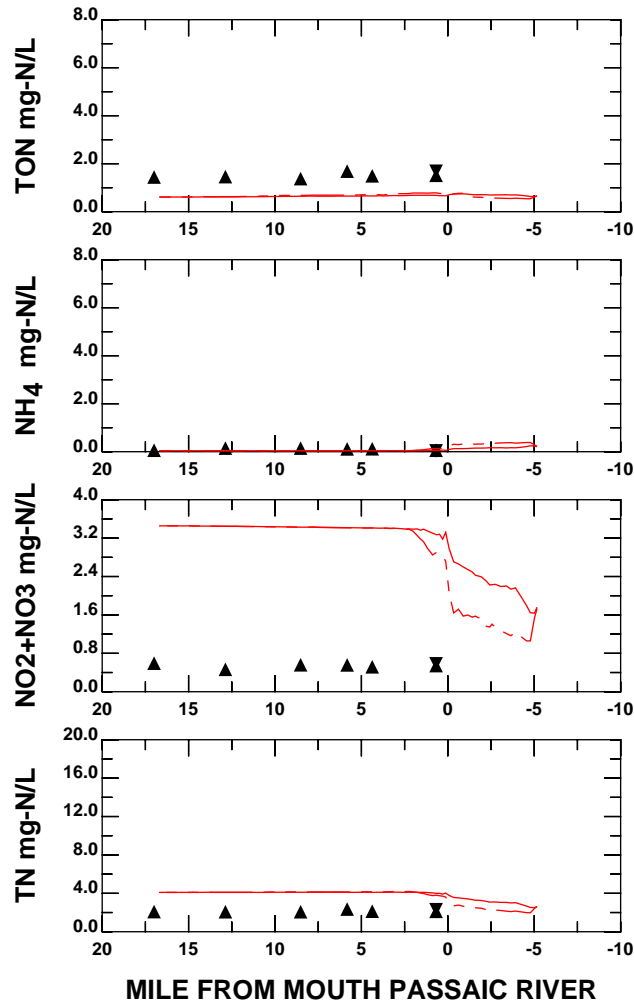
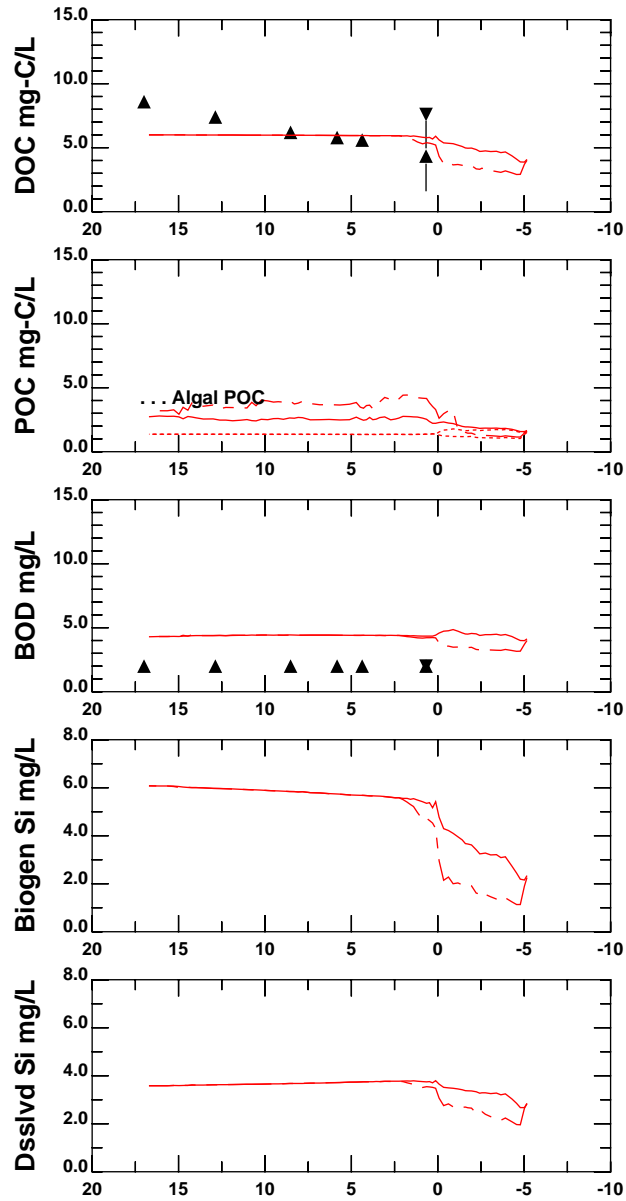
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



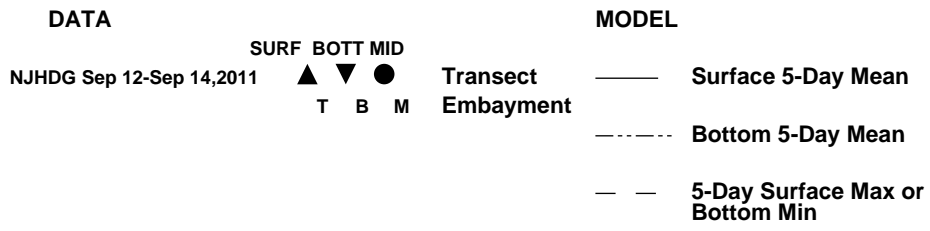
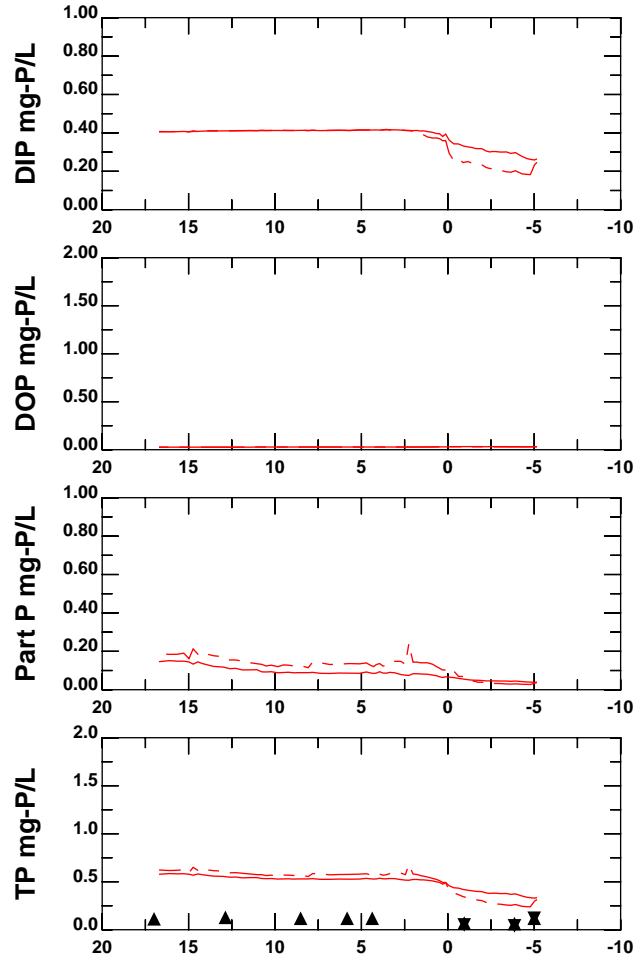
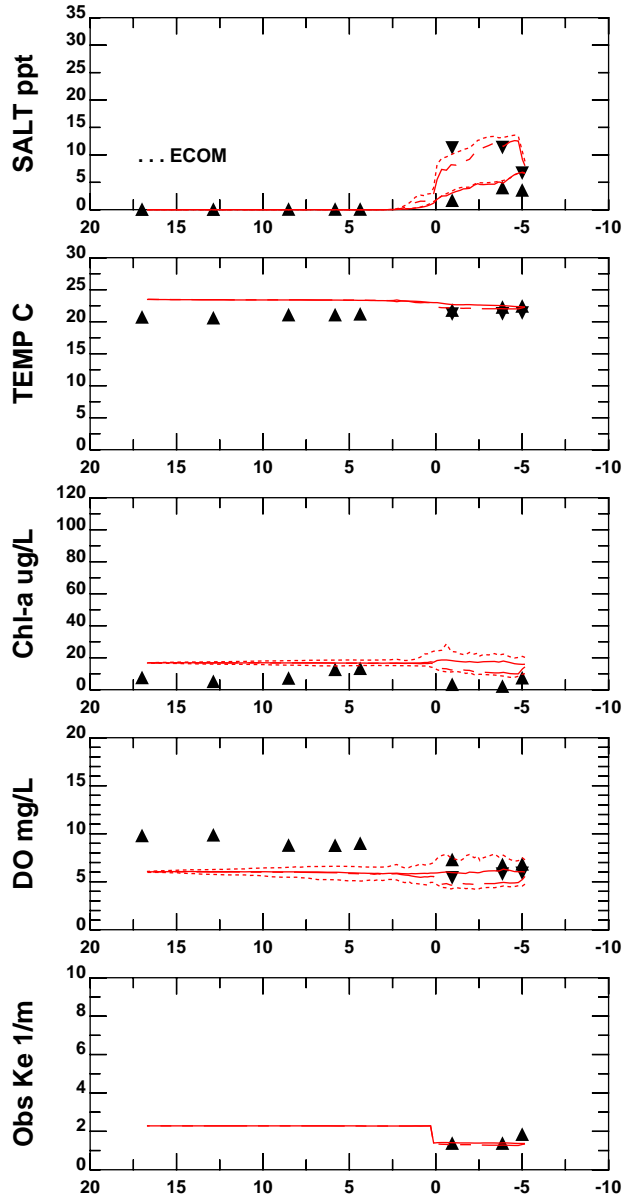
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011



**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

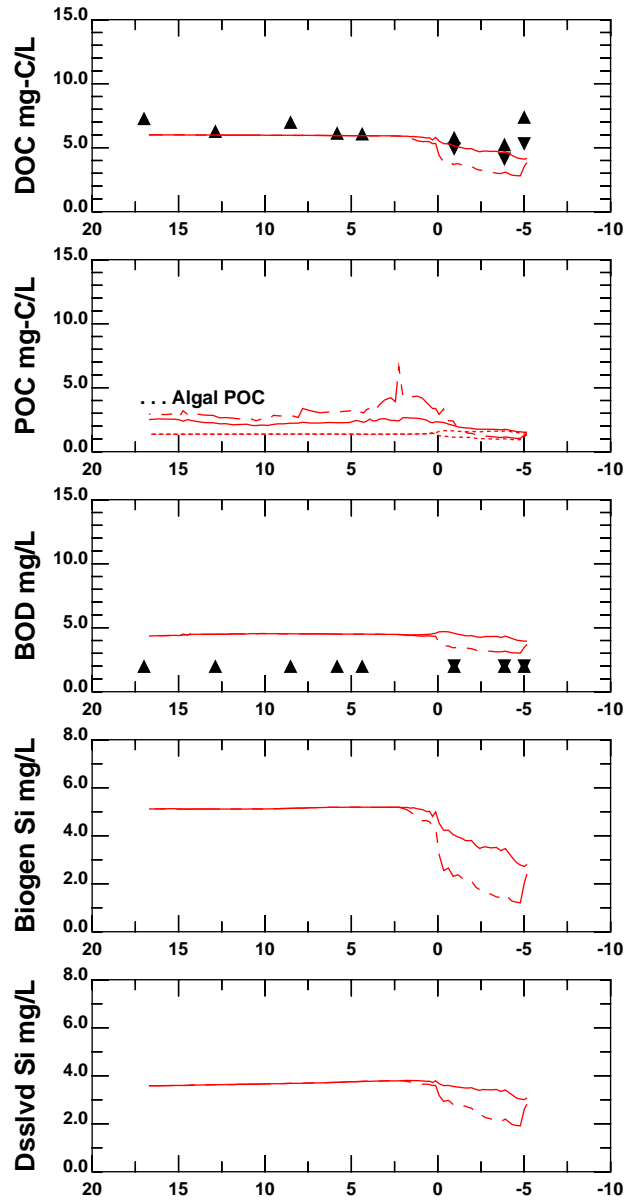


**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

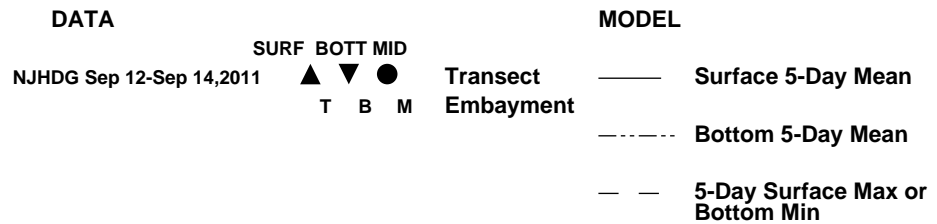
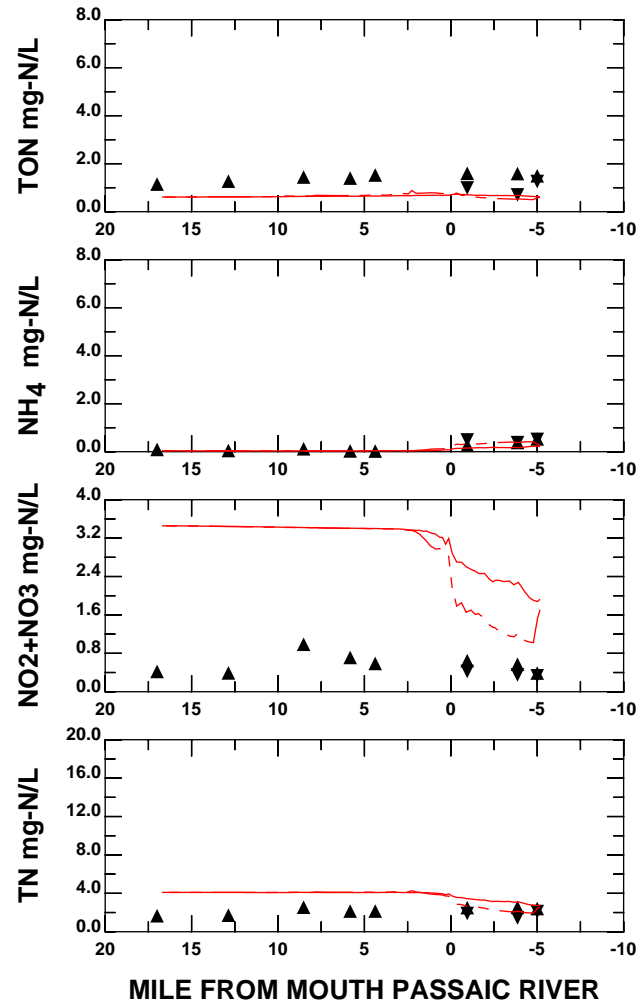


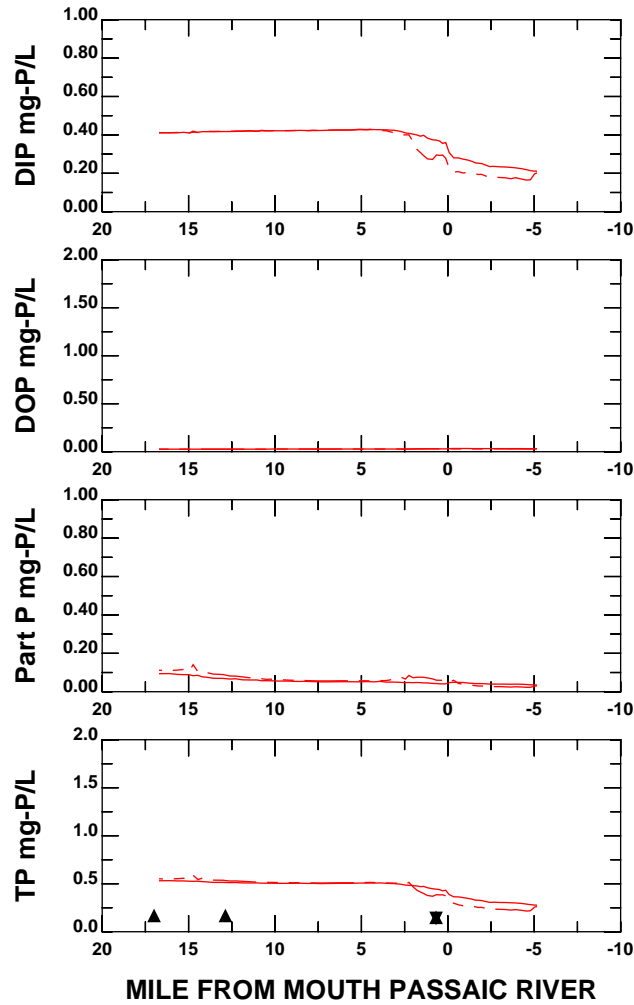
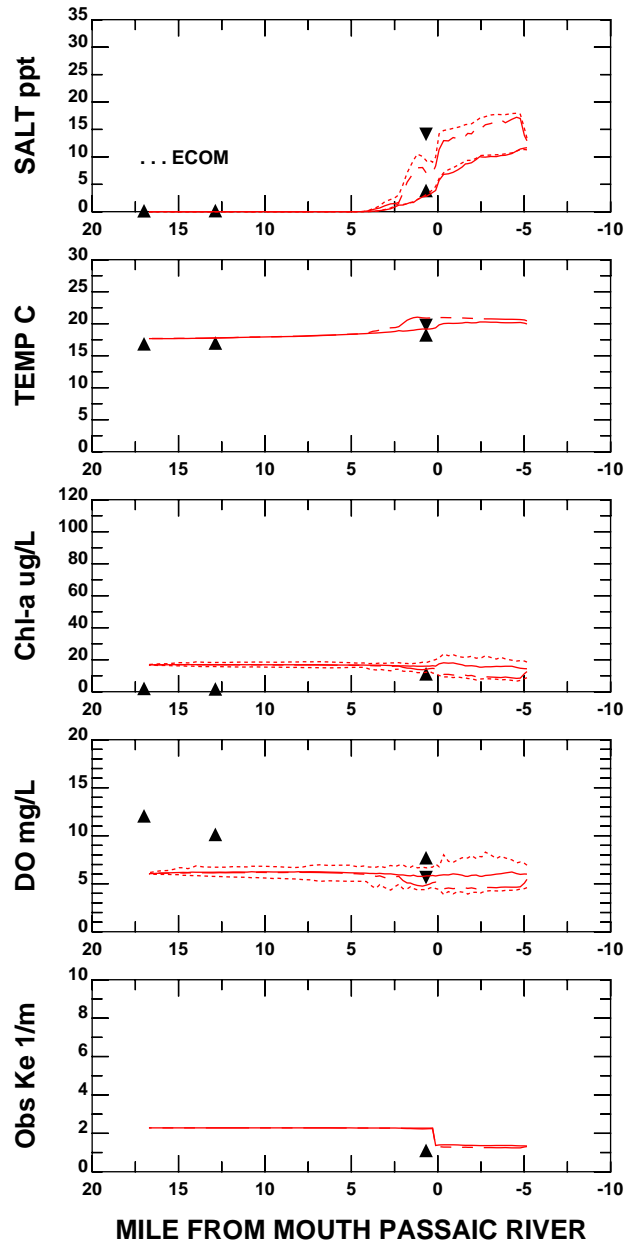
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





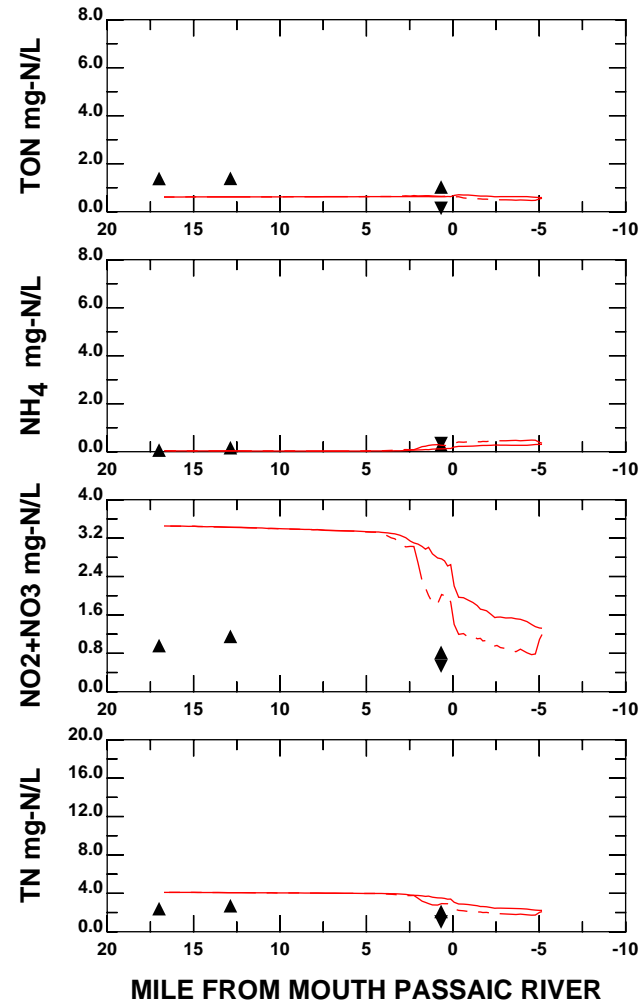
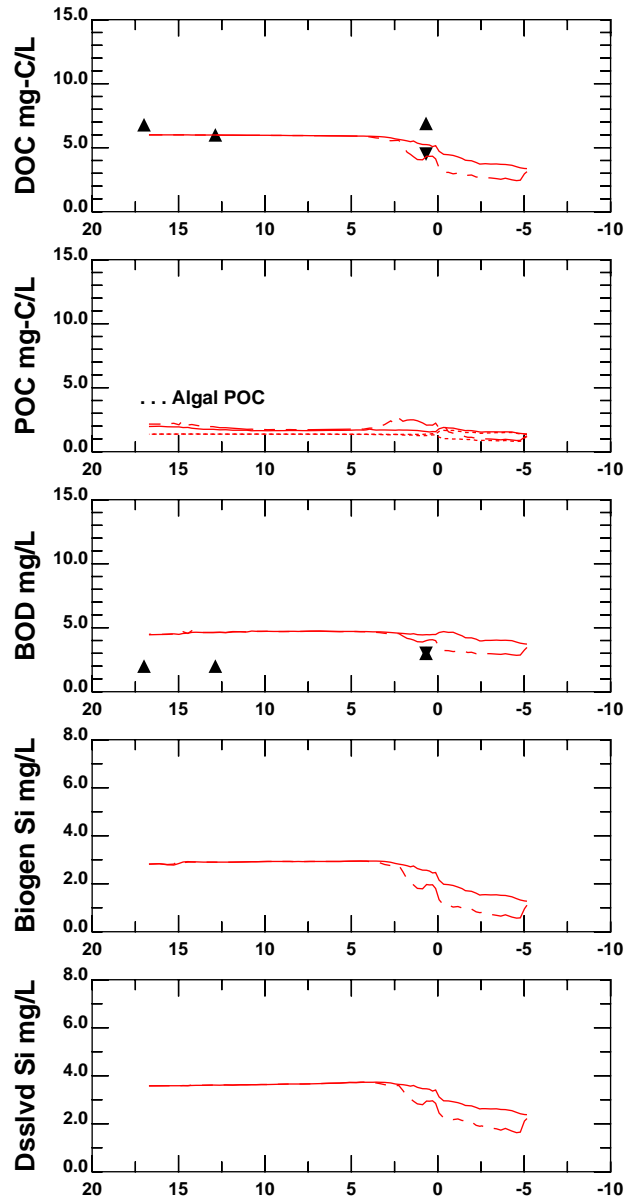
**DATA**  
NJHDG Sep 20,2011

**MODEL**

SURF BOTT MID  
 ▲ ▼ ● Transect  
 T B M Embayment

— Surface 5-Day Mean  
 - - - Bottom 5-Day Mean  
 - - 5-Day Surface Max or Bottom Min

**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

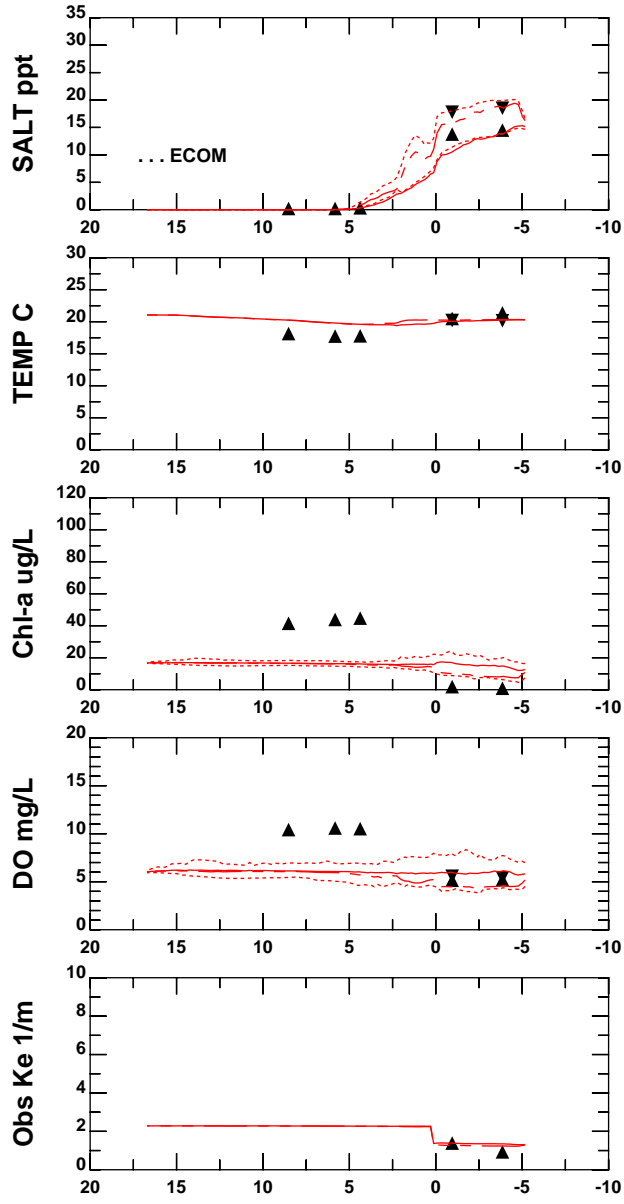


DATA  
NJHDG Sep 20,2011

SURF BOTT MID  
▲ ▼ ● Transect  
T B M Embayment

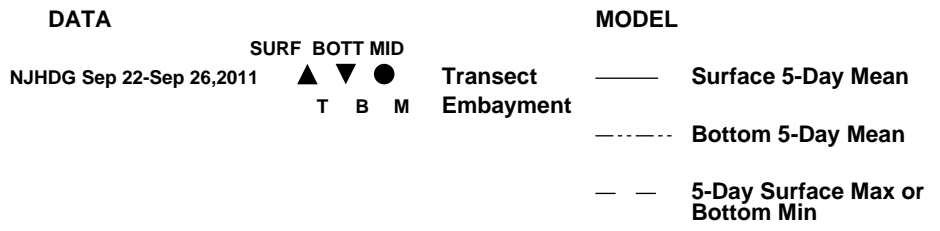
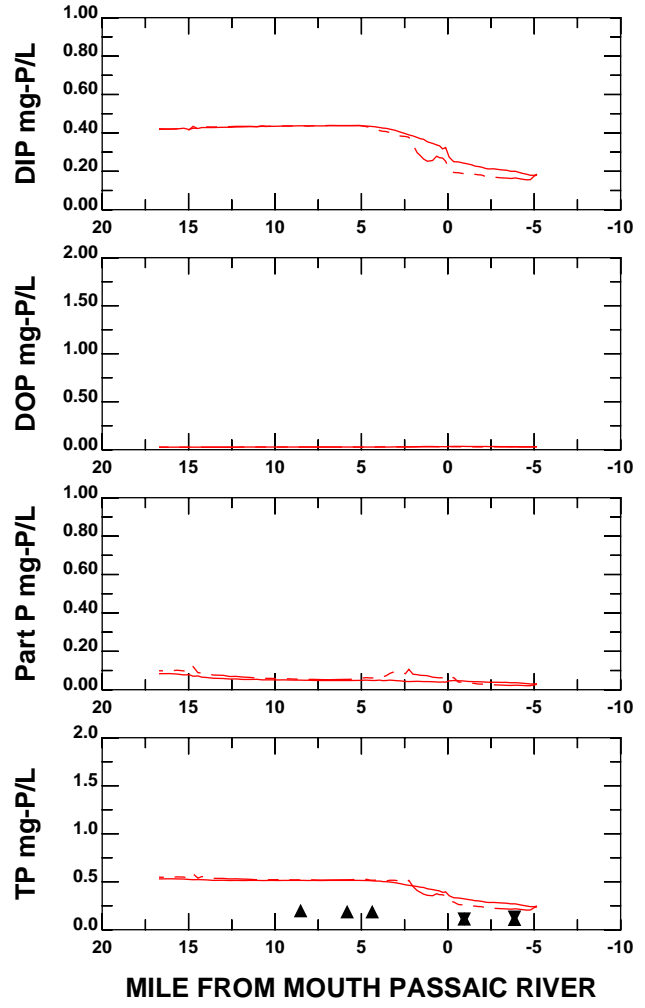
MODEL  
—— Surface 5-Day Mean  
- - - - Bottom 5-Day Mean  
- - - 5-Day Surface Max or Bottom Min

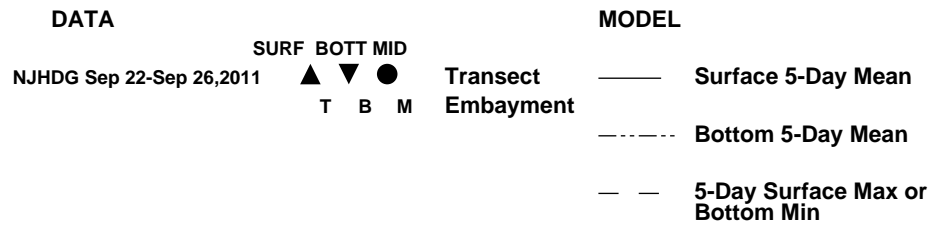
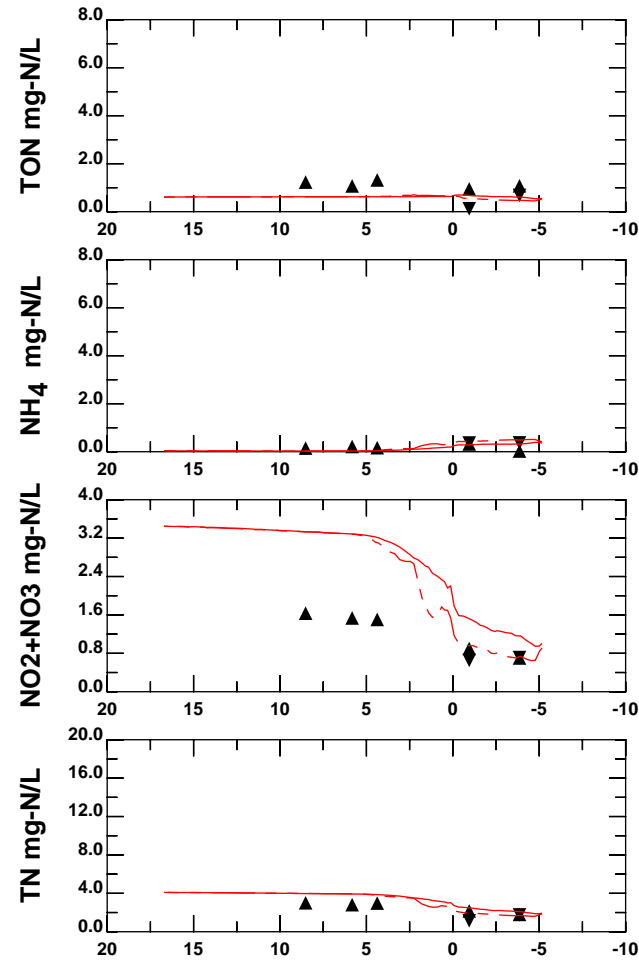
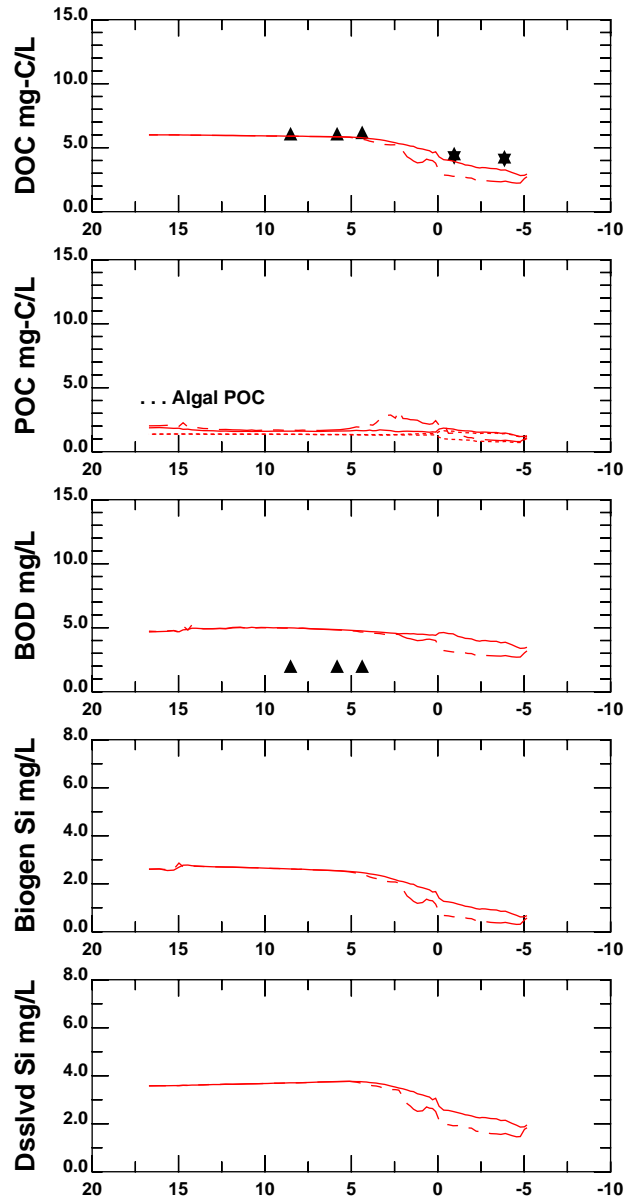
**PASSAIC RIVER AND NEWARK BAY**  
RED=model:Collapsed Grid 1011



MILE FROM MOUTH PASSAIC RIVER

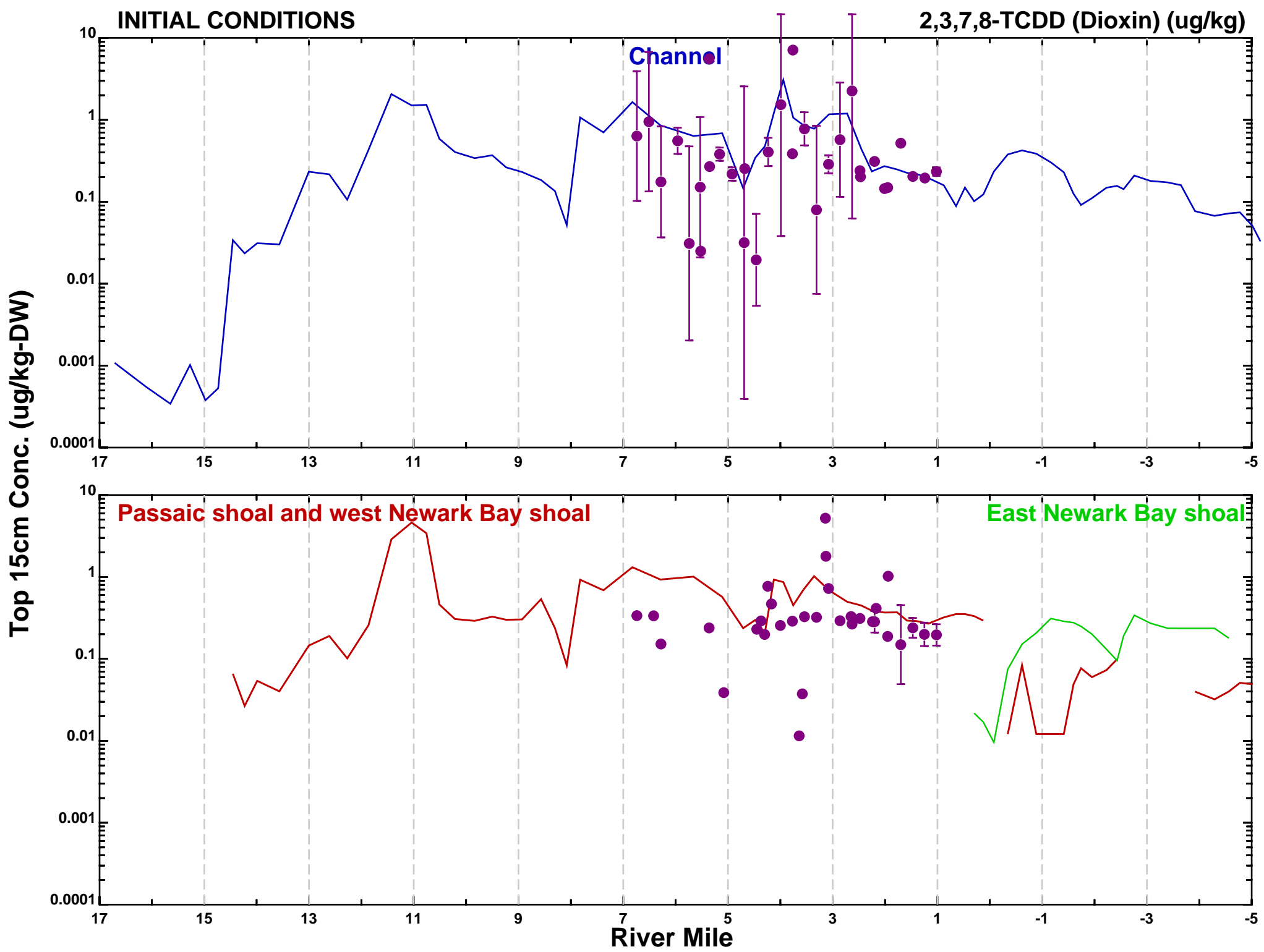
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011





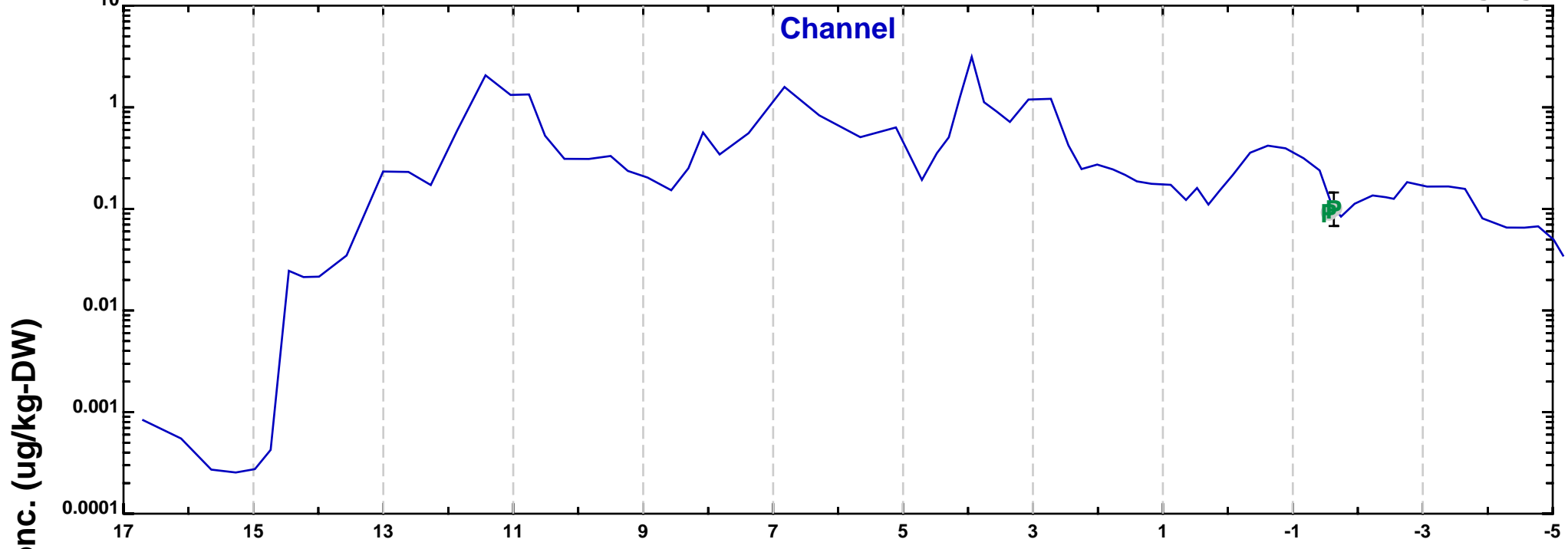
**PASSAIC RIVER AND NEWARK BAY**  
 RED=model:Collapsed Grid 1011

**Attachment B**  
**Transect Plots**



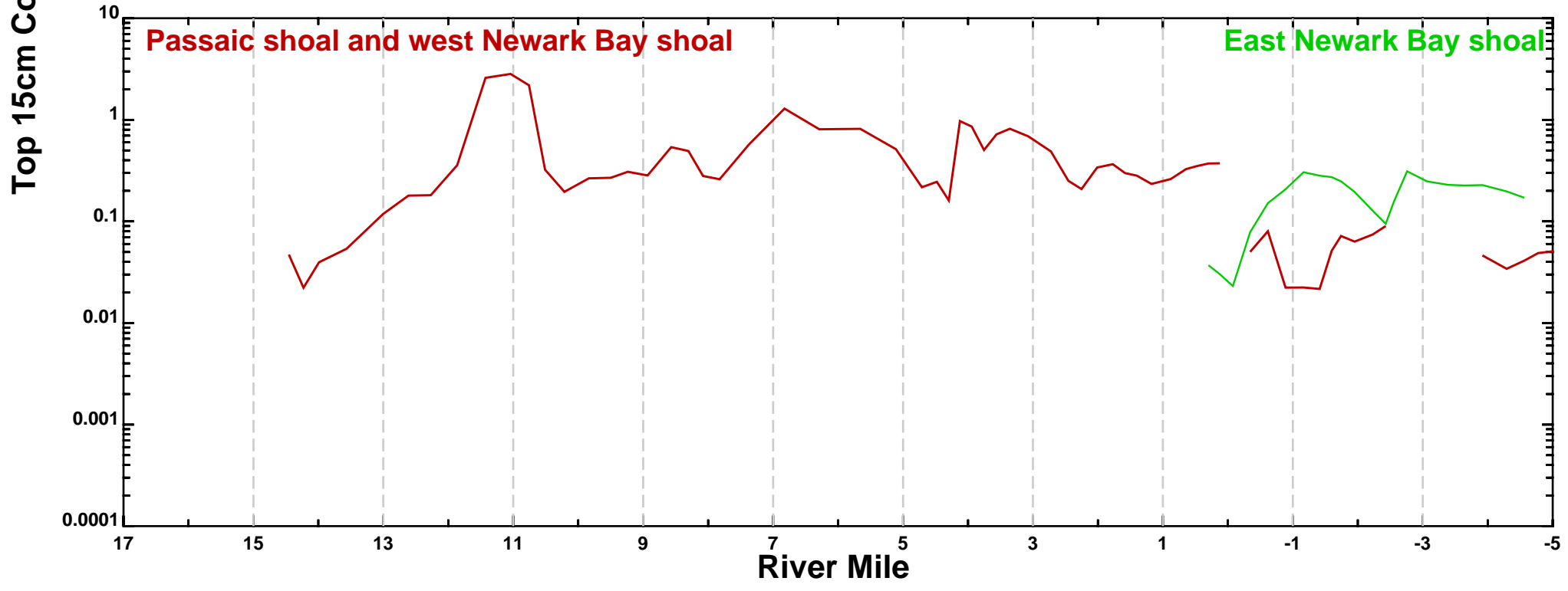
Year = 1996.0

2,3,7,8-TCDD (Dioxin) (ug/kg)



Passaic shoal and west Newark Bay shoal

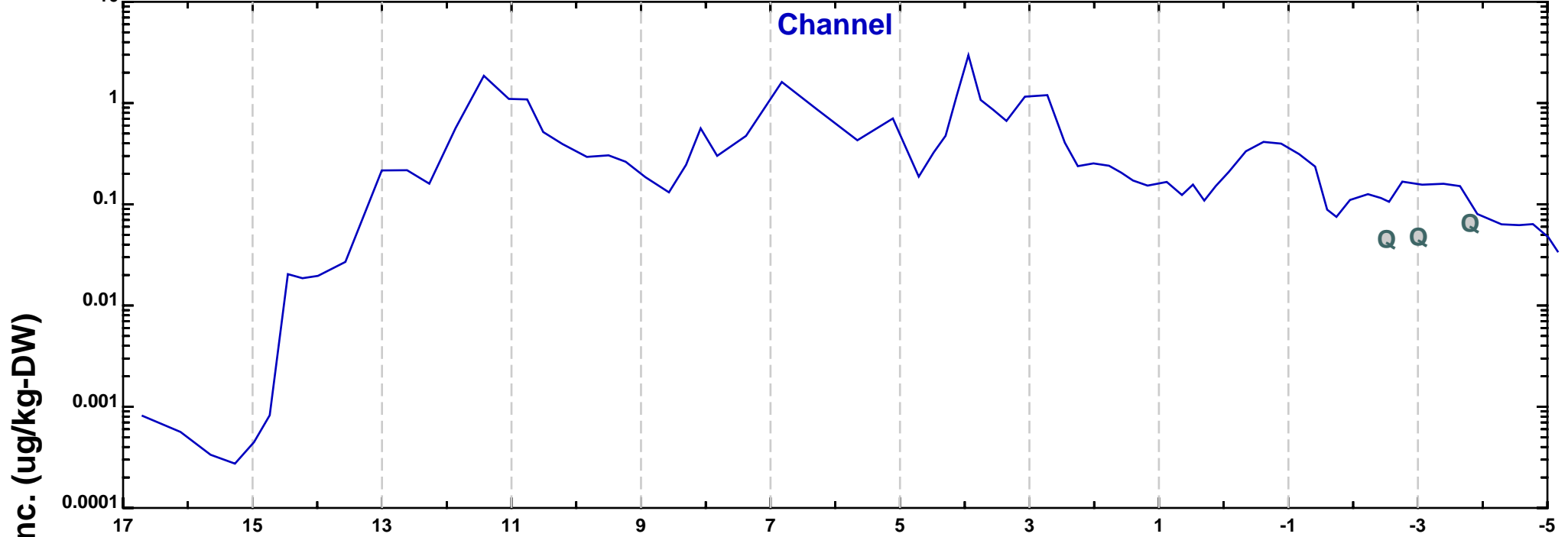
East Newark Bay shoal





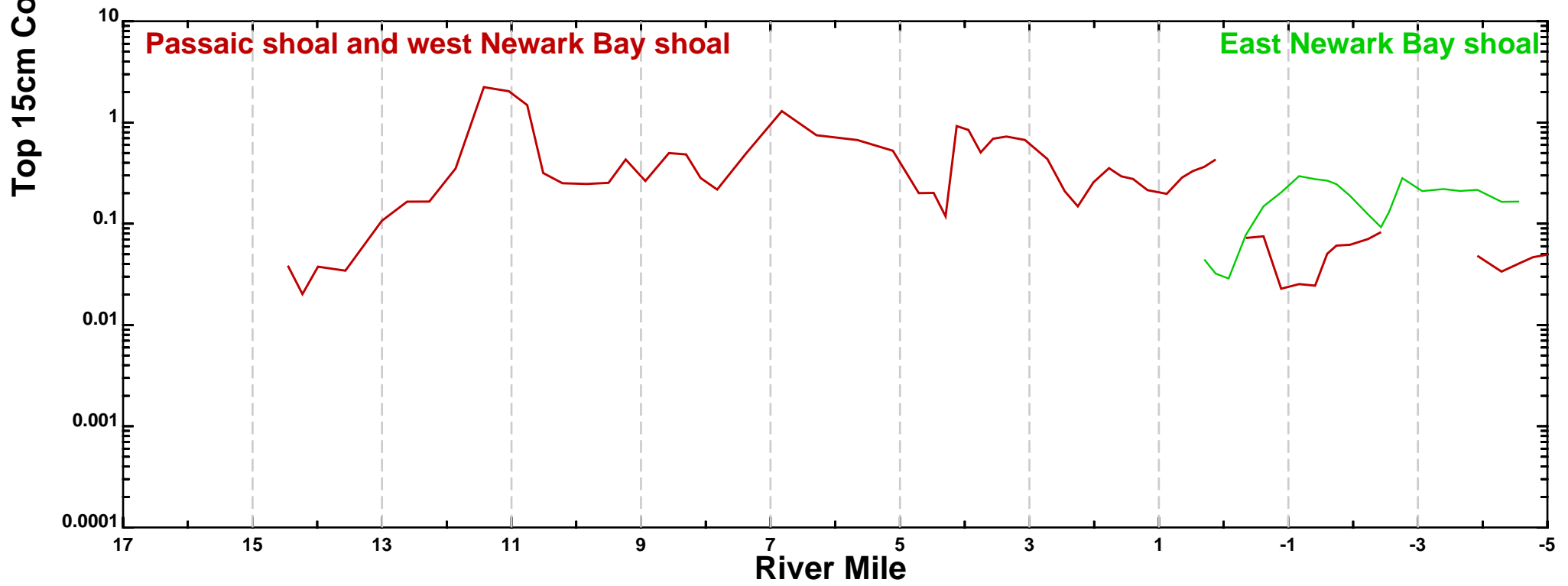
Year = 1997.0

2,3,7,8-TCDD (Dioxin) (ug/kg)



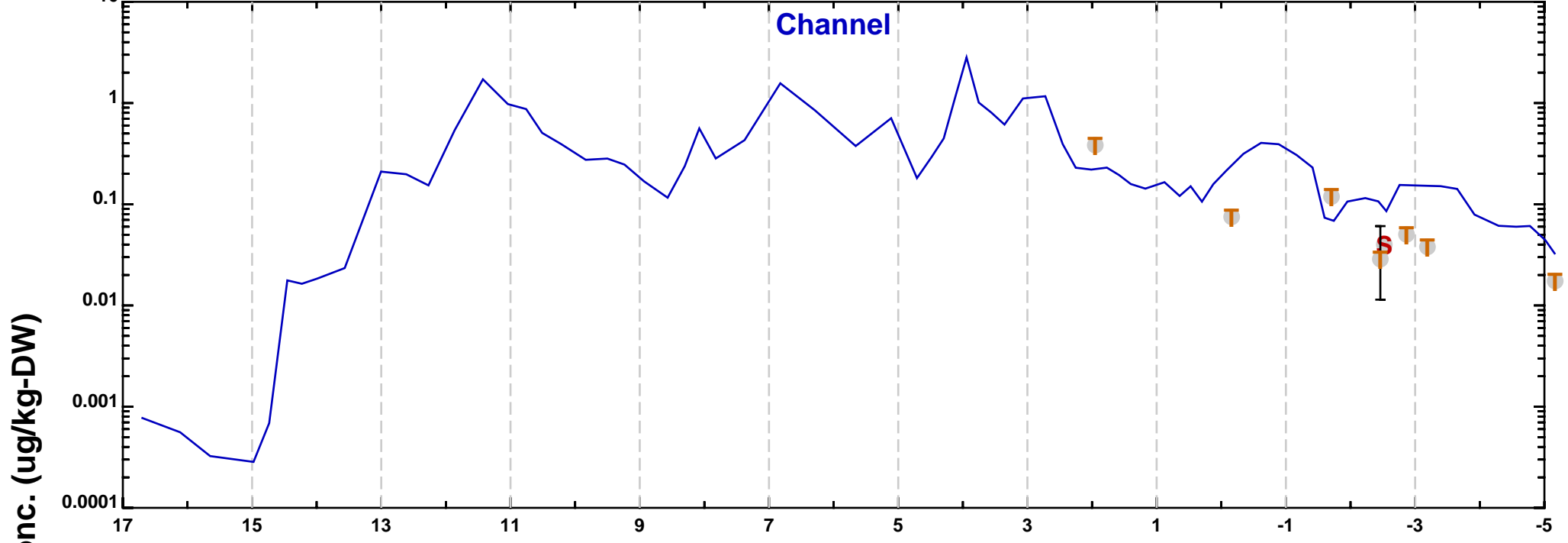
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



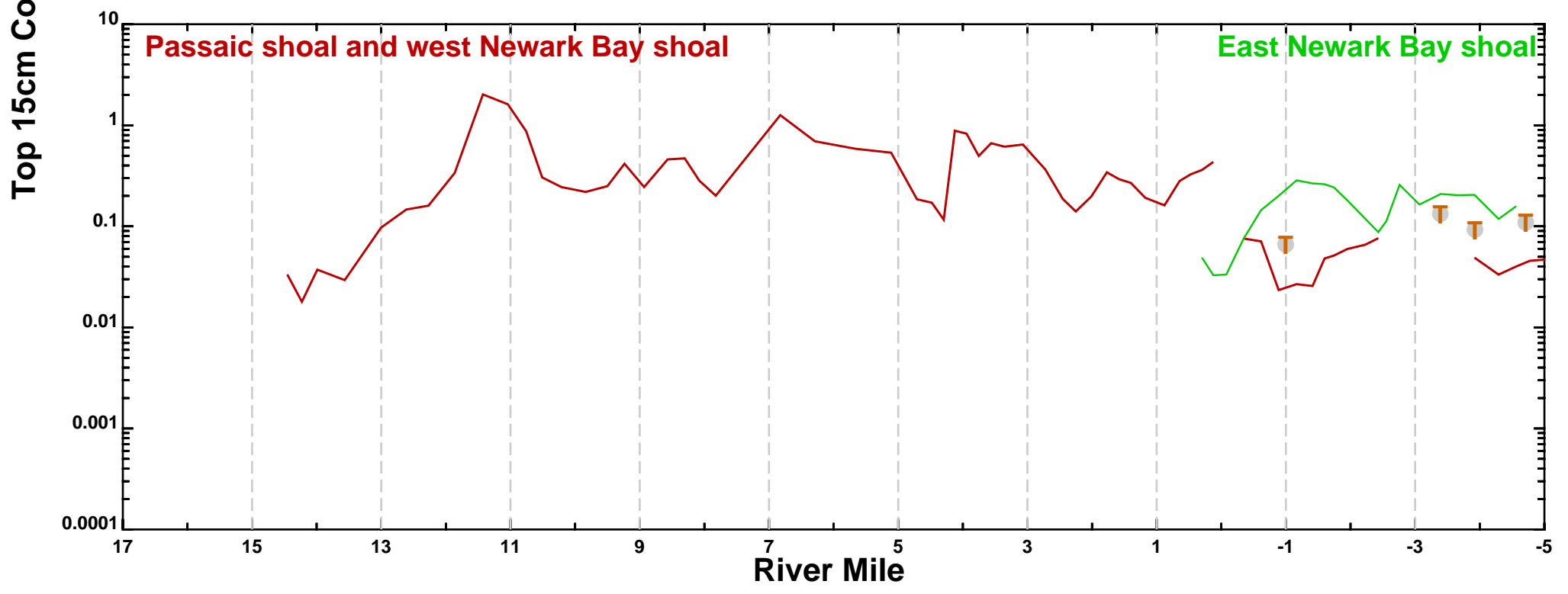
Year = 1998.0

2,3,7,8-TCDD (Dioxin) (ug/kg)



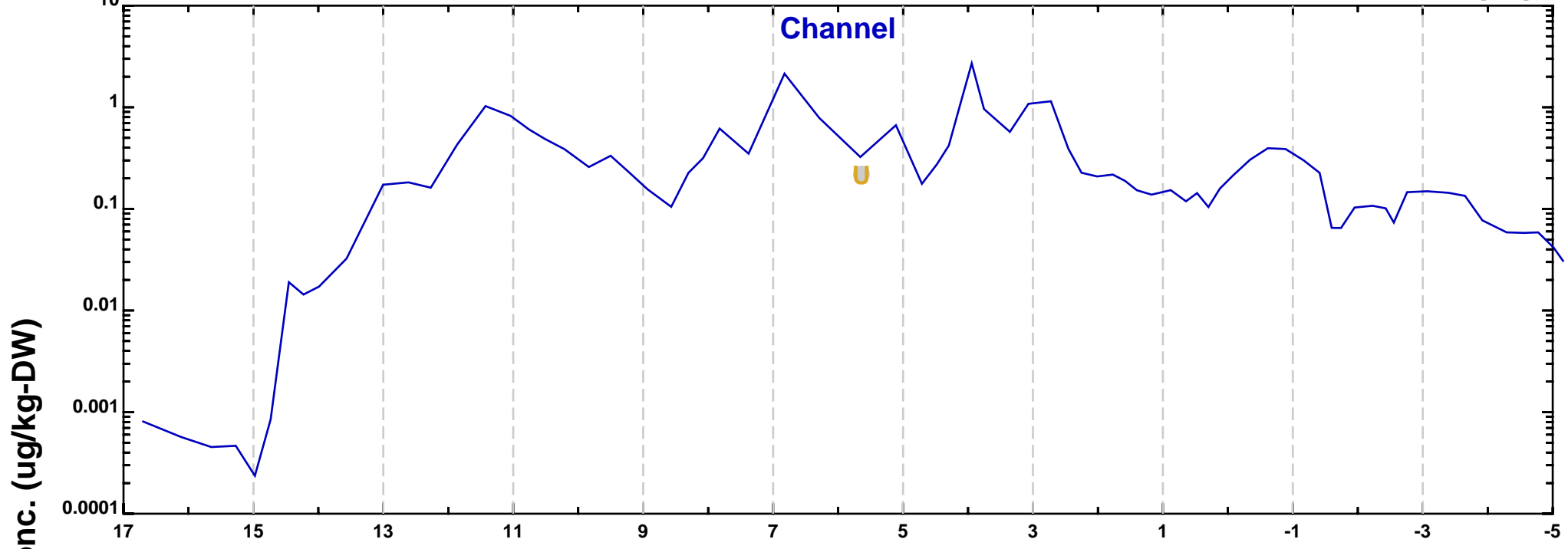
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



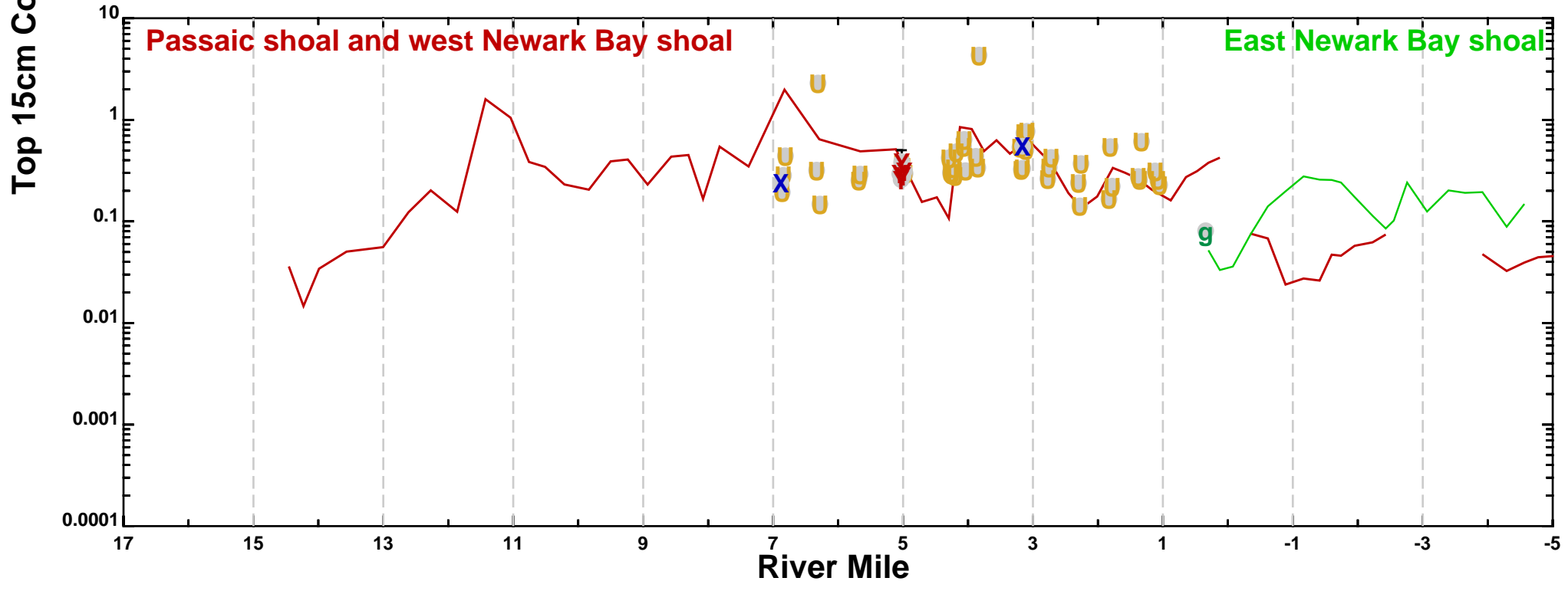
Year = 1999.0

2,3,7,8-TCDD (Dioxin) (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



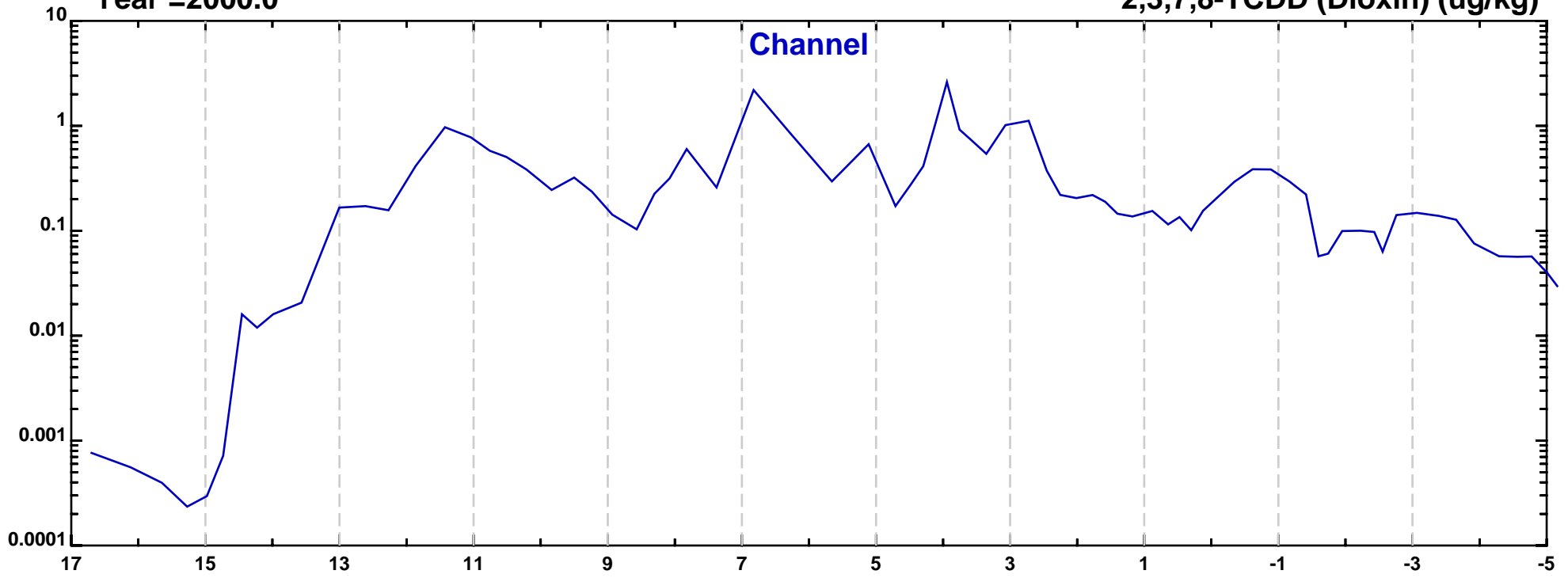
River Mile

Year =2000.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

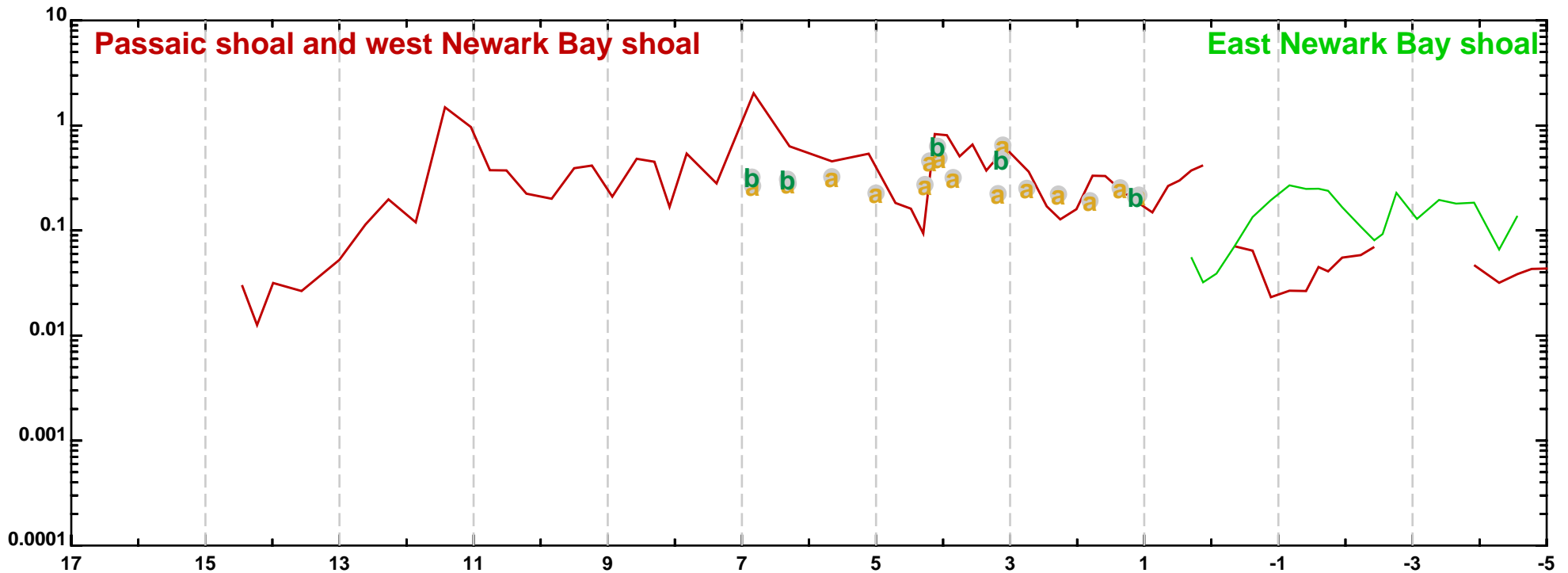
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



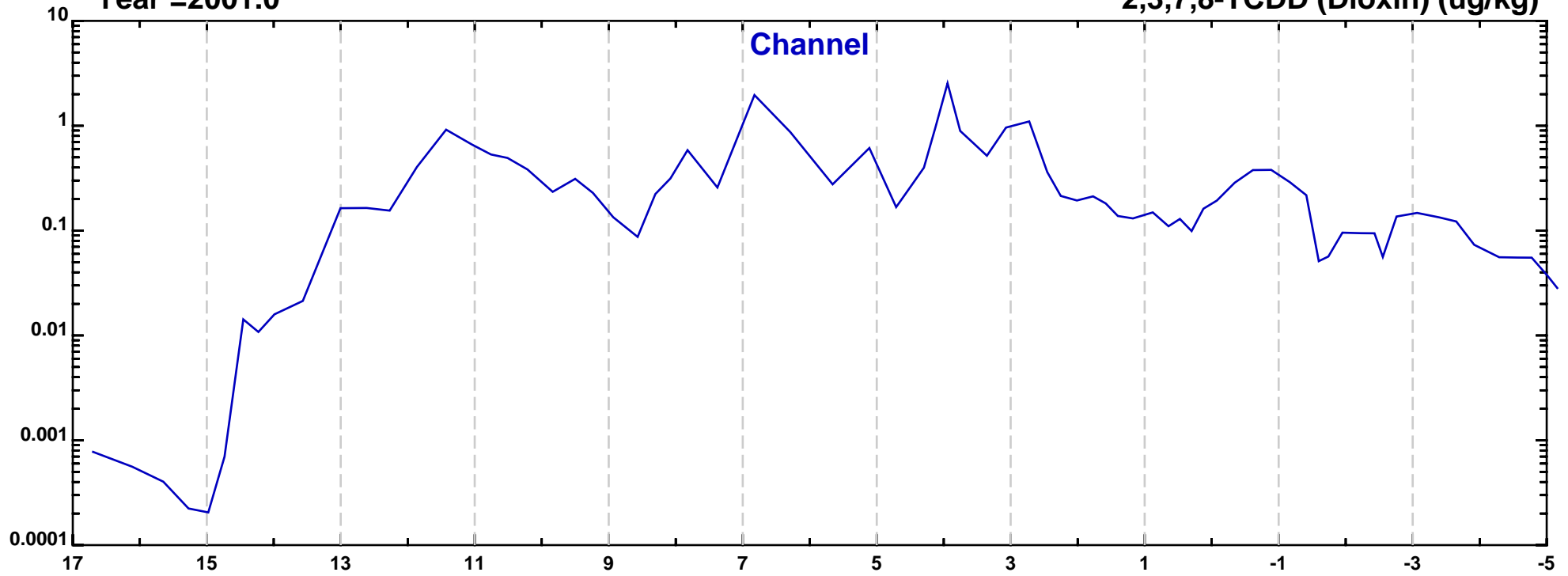
River Mile

Year =2001.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

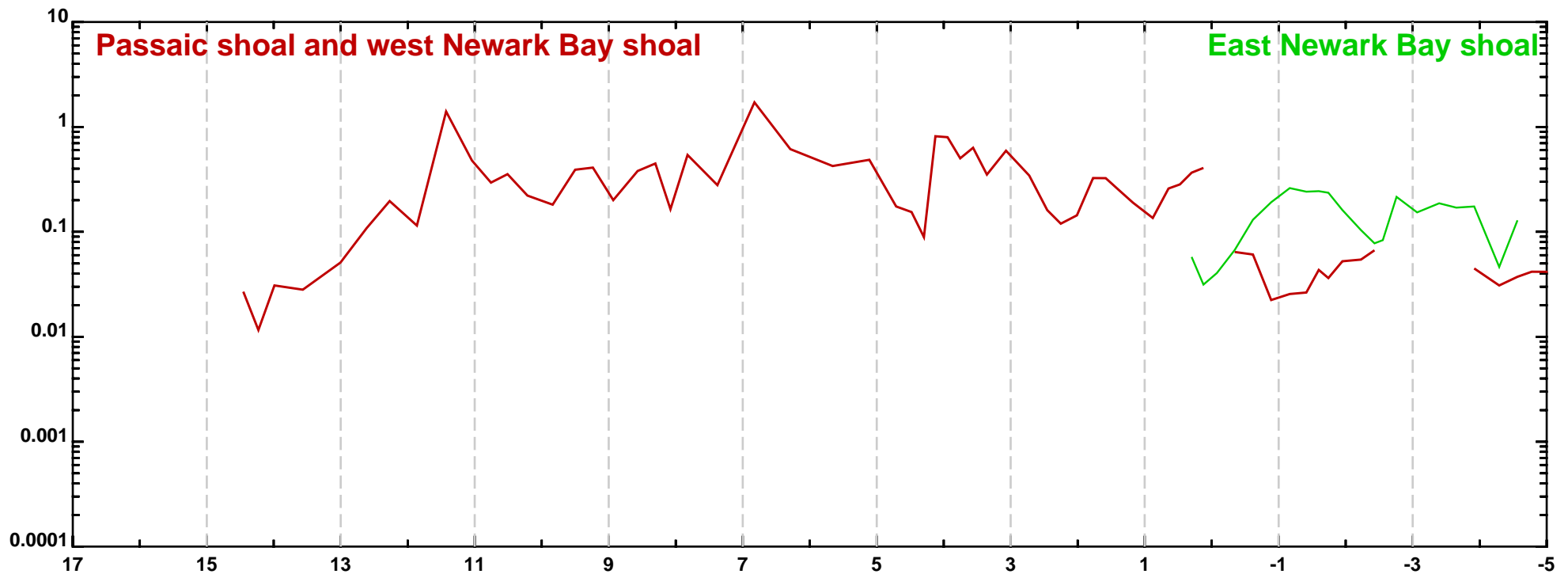
Top 15cm Conc. (ug/kg-DW)

Channel



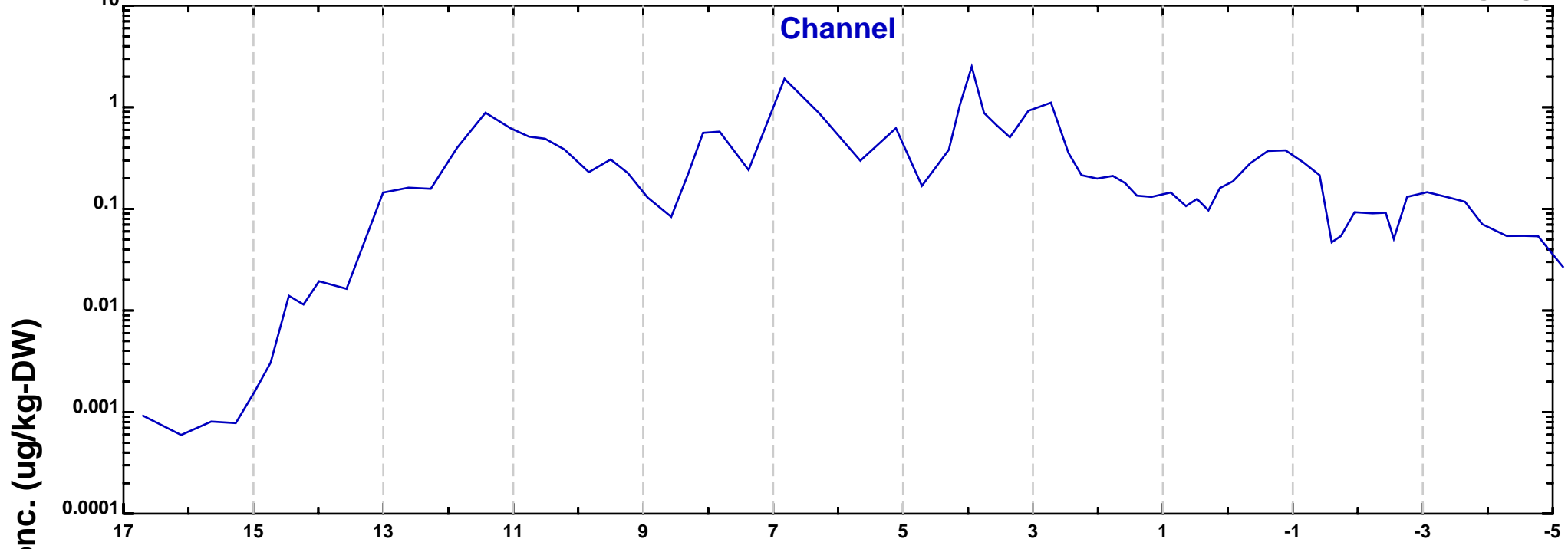
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2002.0

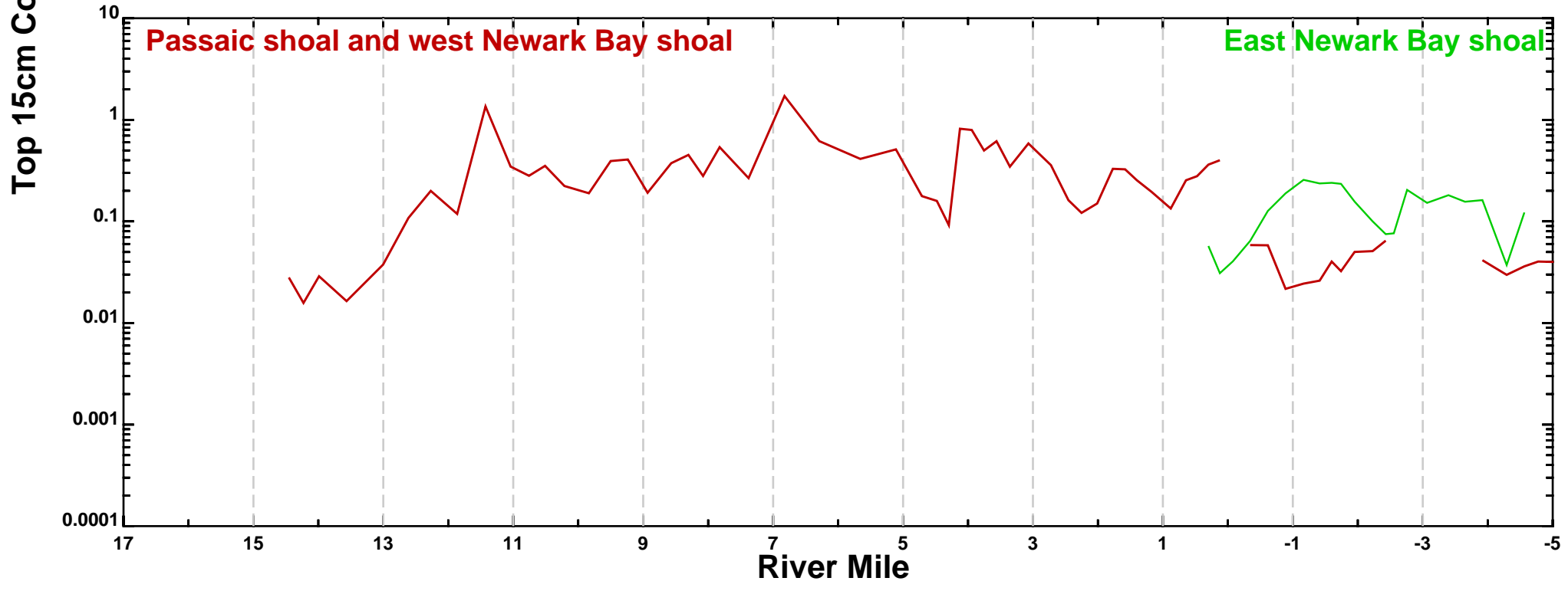
2,3,7,8-TCDD (Dioxin) (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

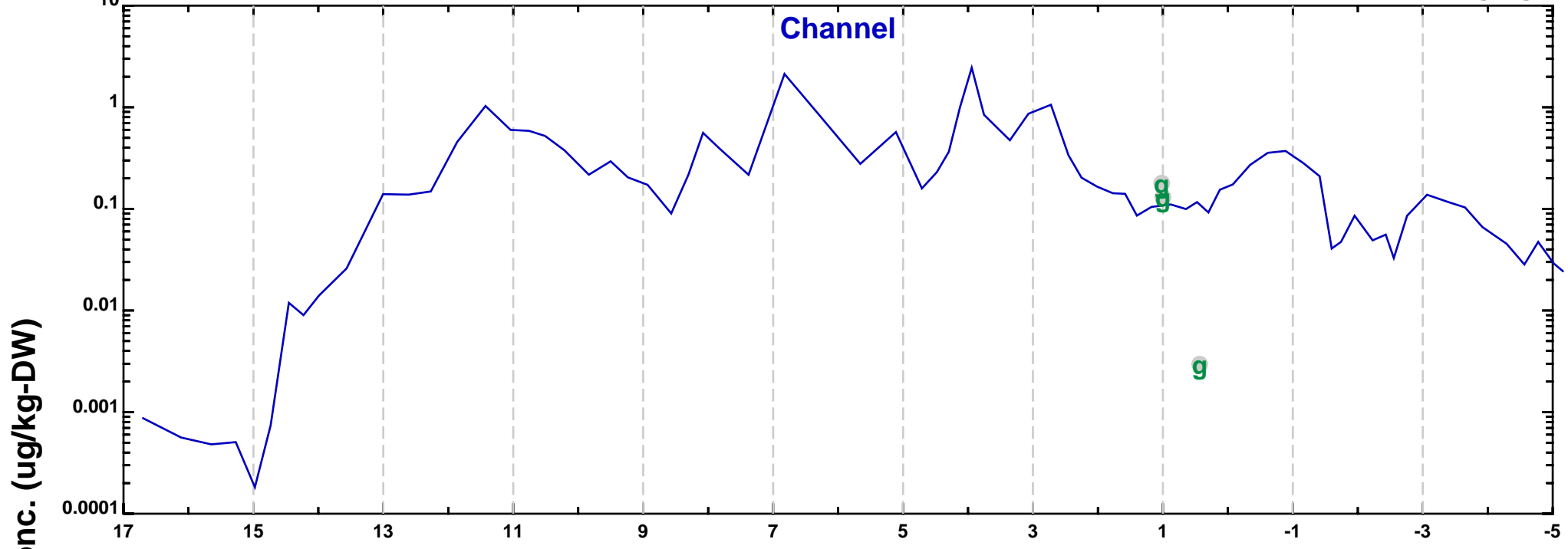
East Newark Bay shoal



River Mile

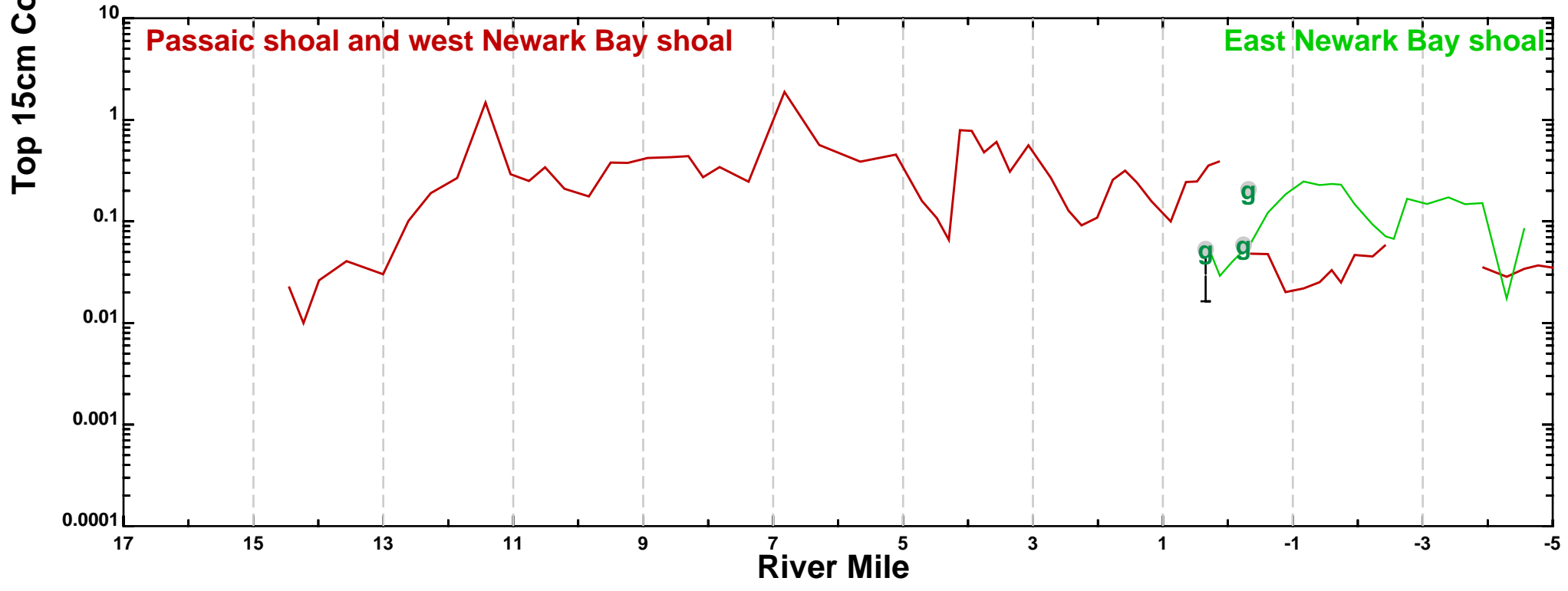
Year =2003.0

2,3,7,8-TCDD (Dioxin) (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

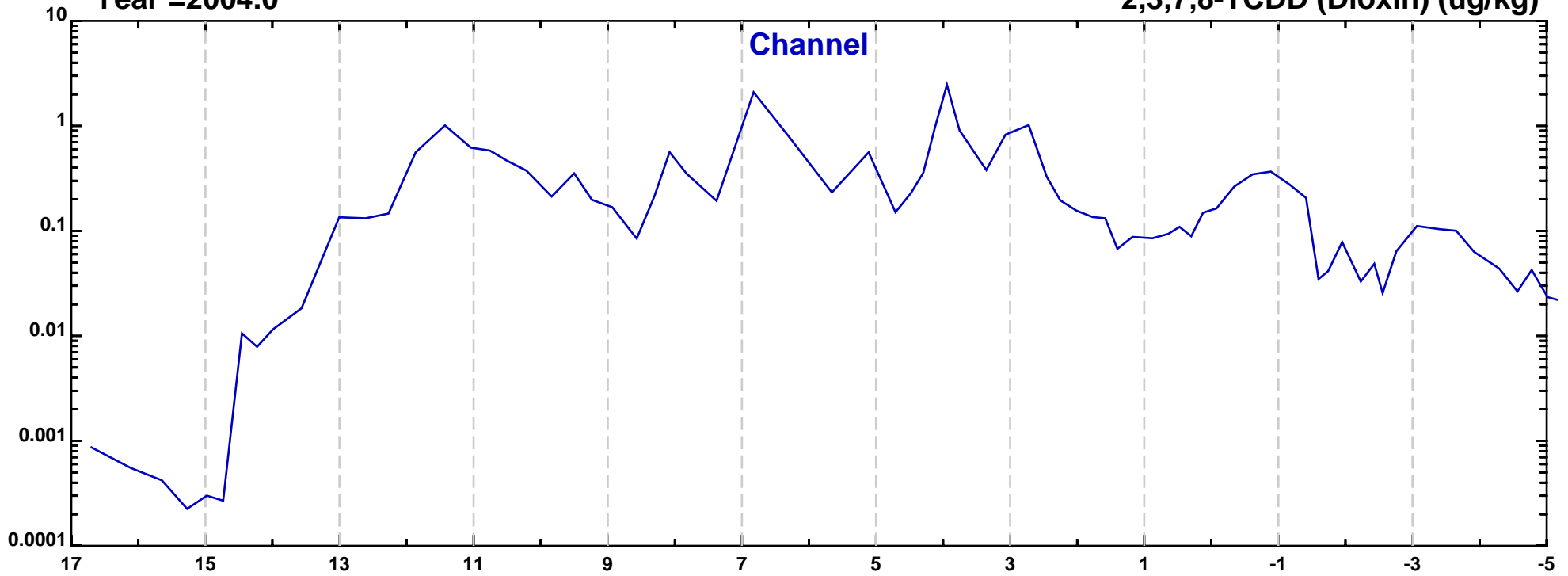


Year =2004.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

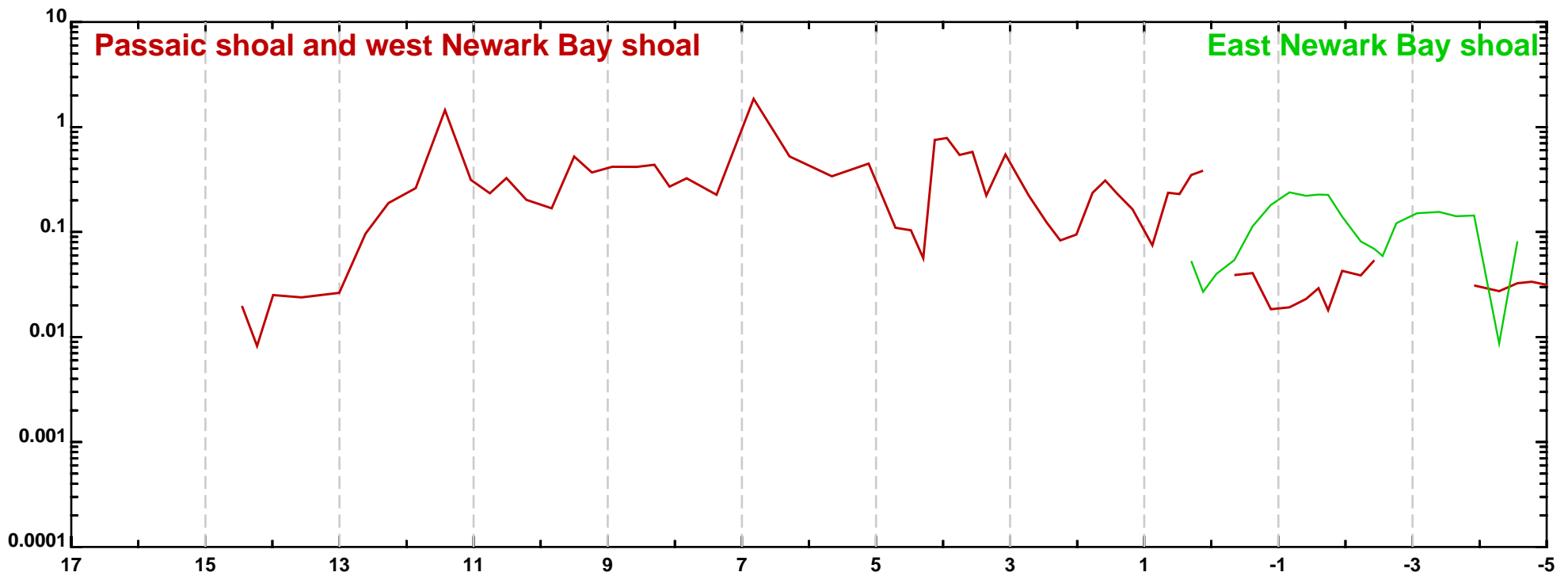
Top 15cm Conc. (ug/kg-DW)

Channel



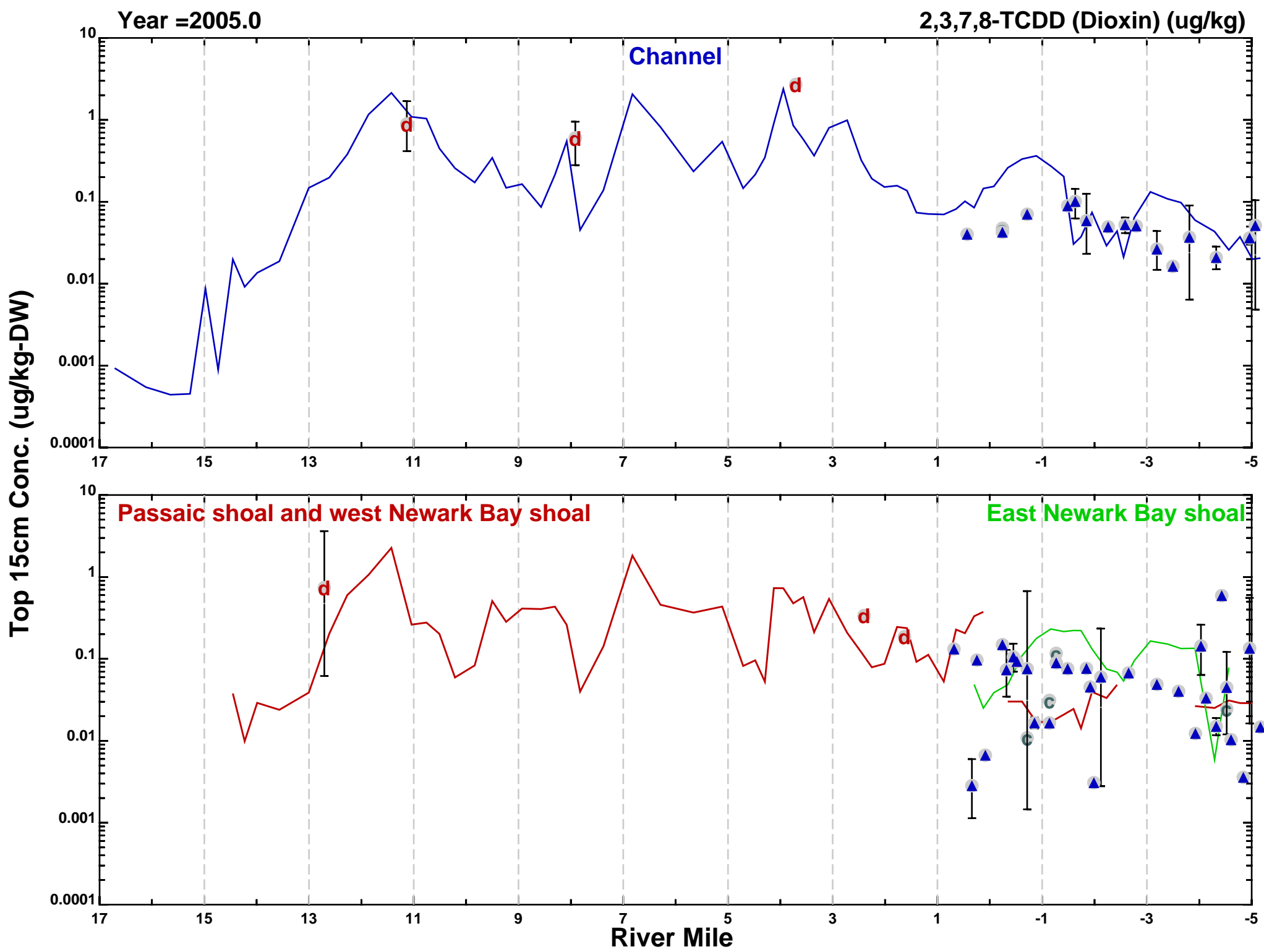
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



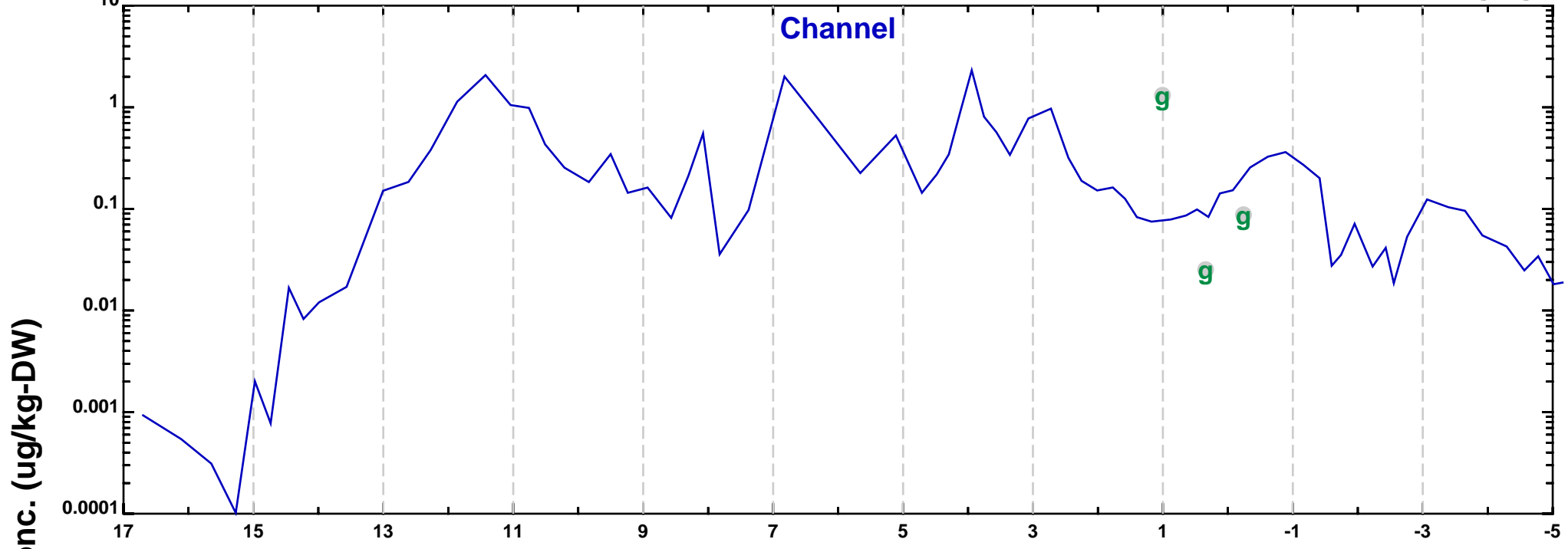
River Mile





Year =2006.0

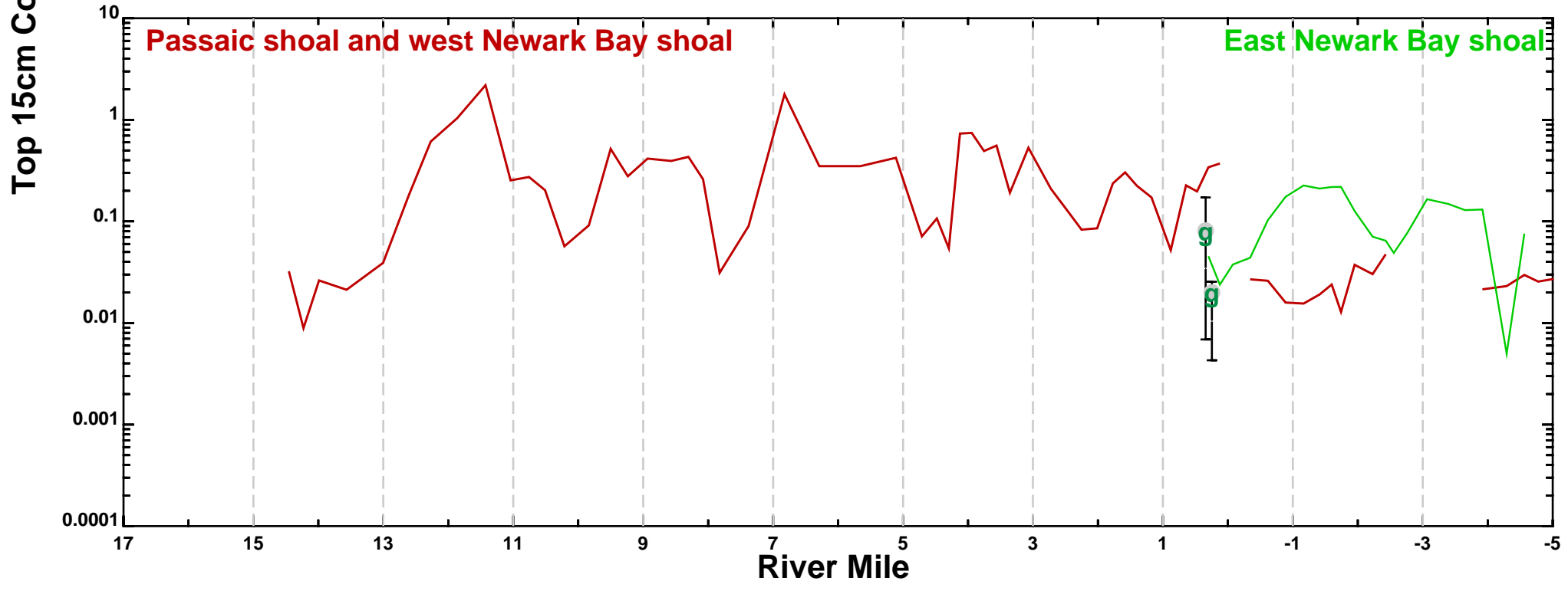
2,3,7,8-TCDD (Dioxin) (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



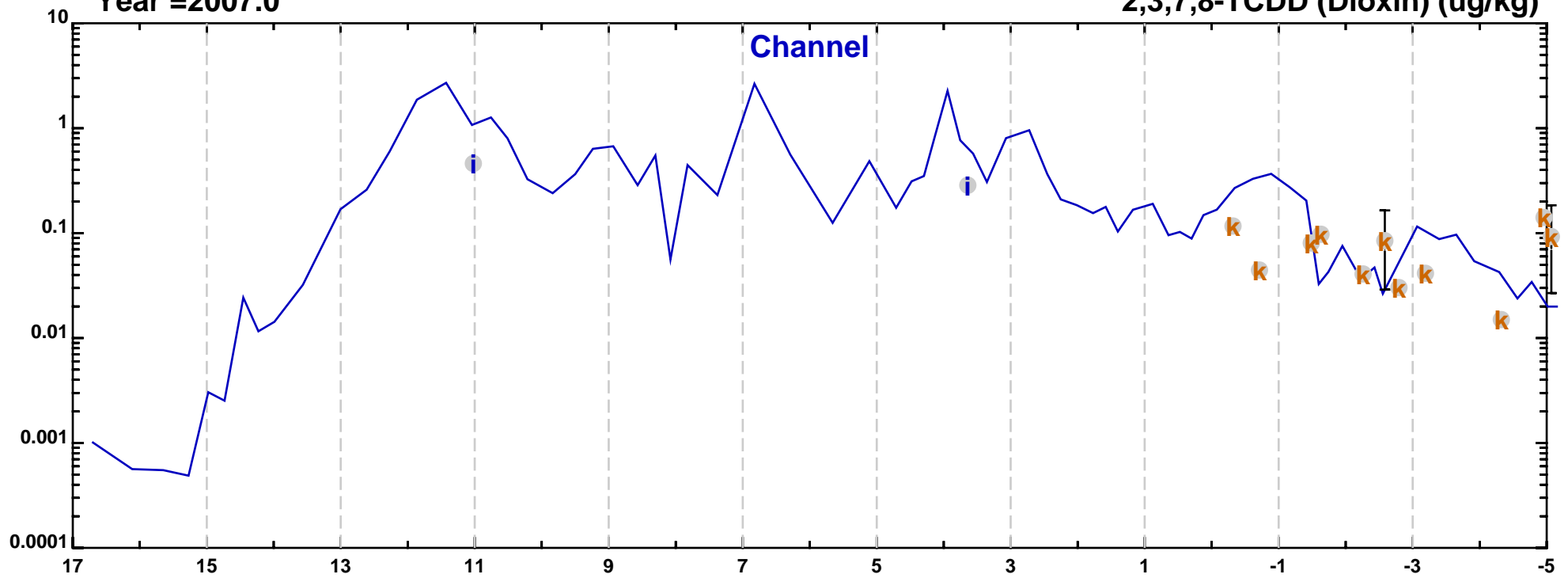
River Mile

Year =2007.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

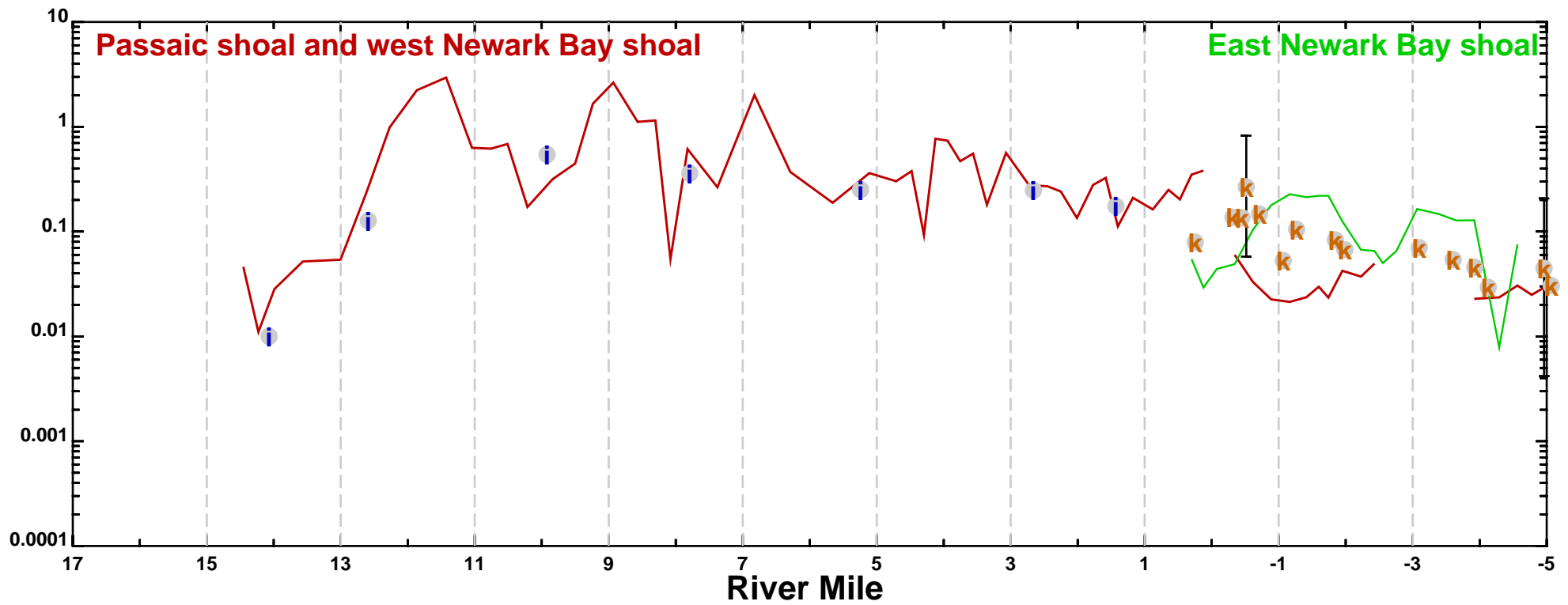
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

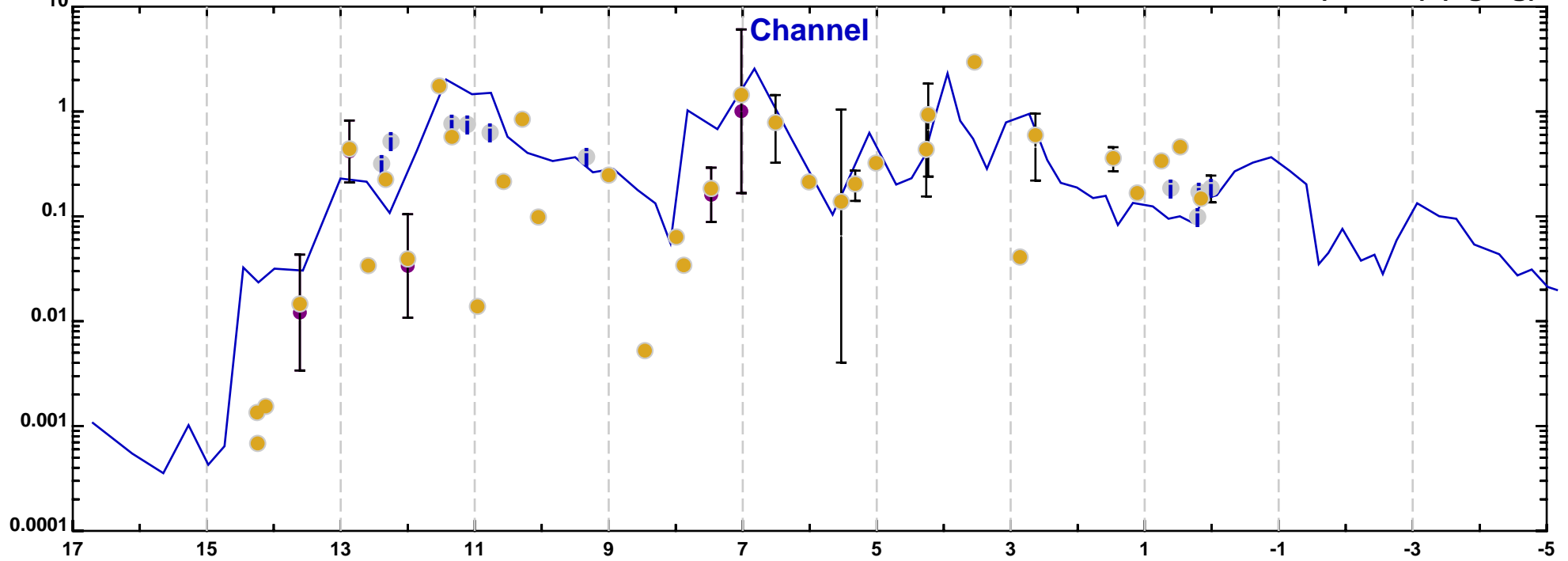
East Newark Bay shoal



Year =2008.0

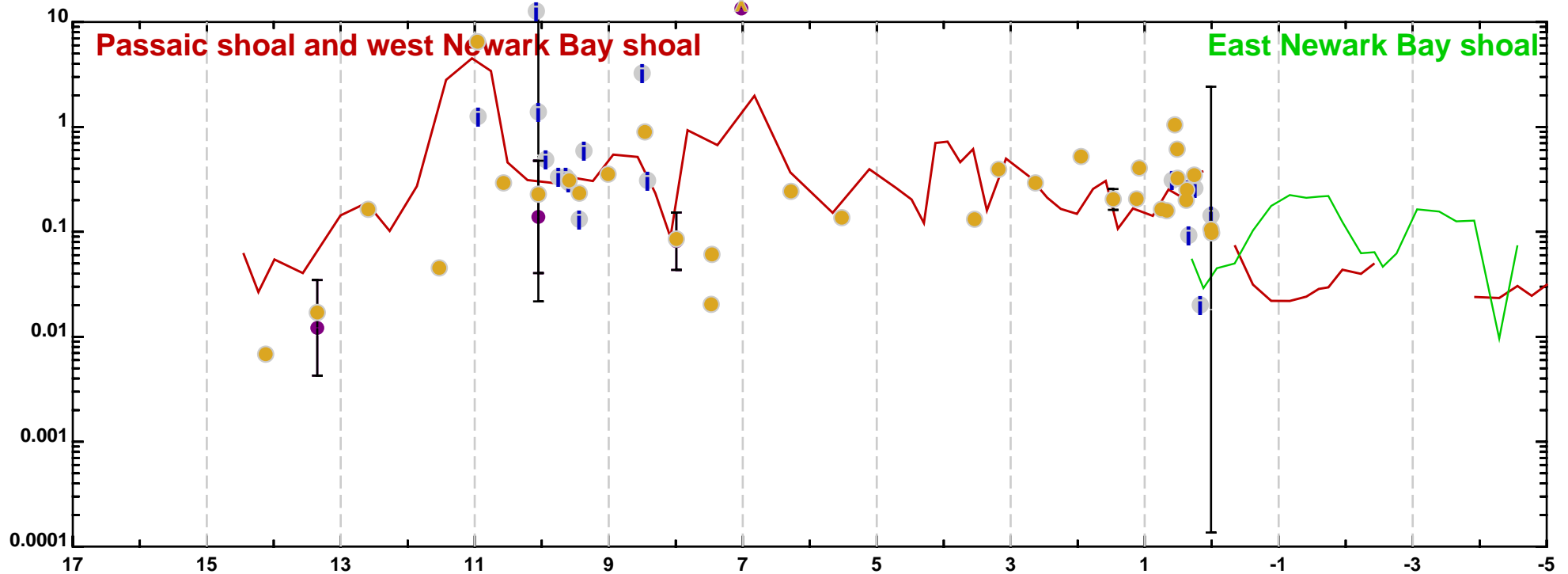
2,3,7,8-TCDD (Dioxin) (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



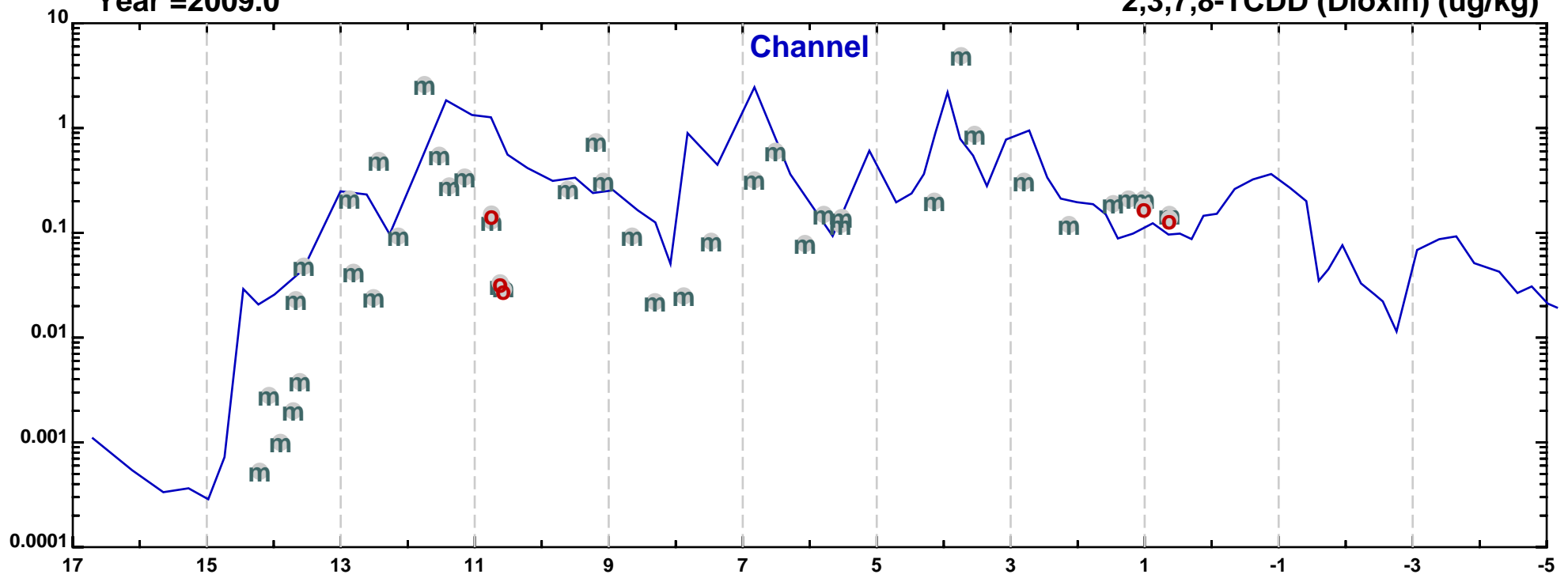
River Mile

Year = 2009.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

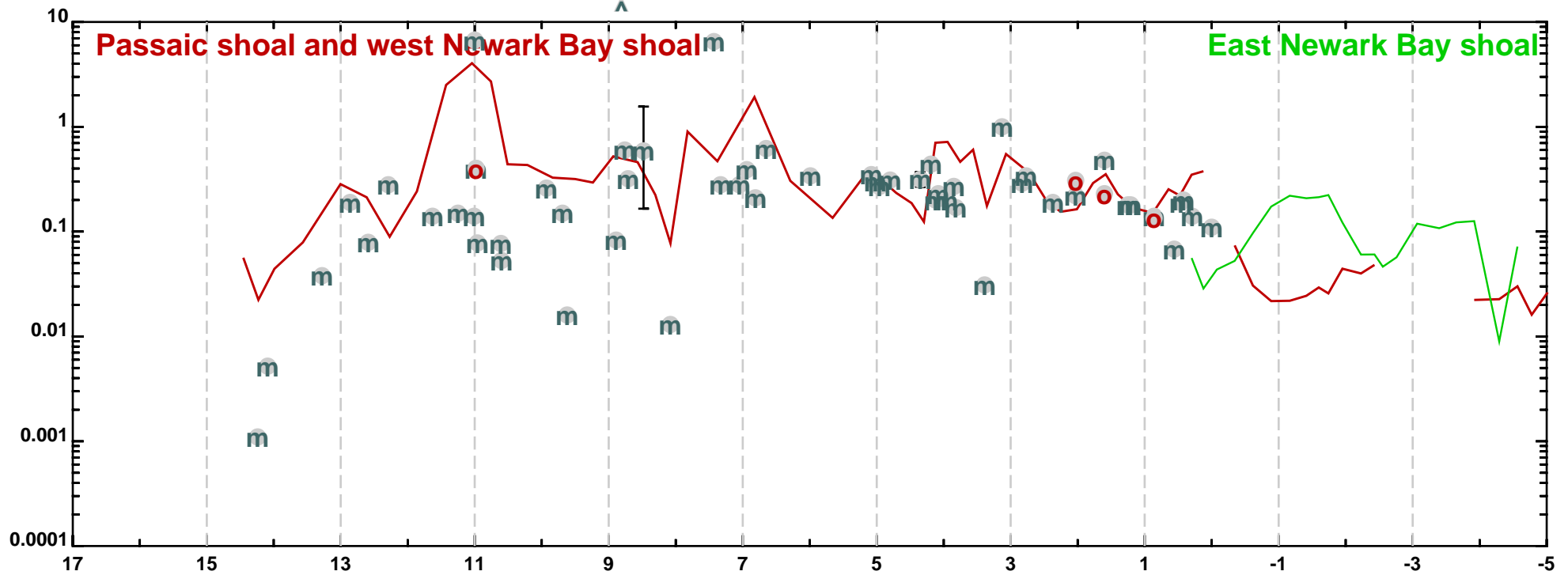
Top 15cm Conc. (ug/kg-DW)

Channel



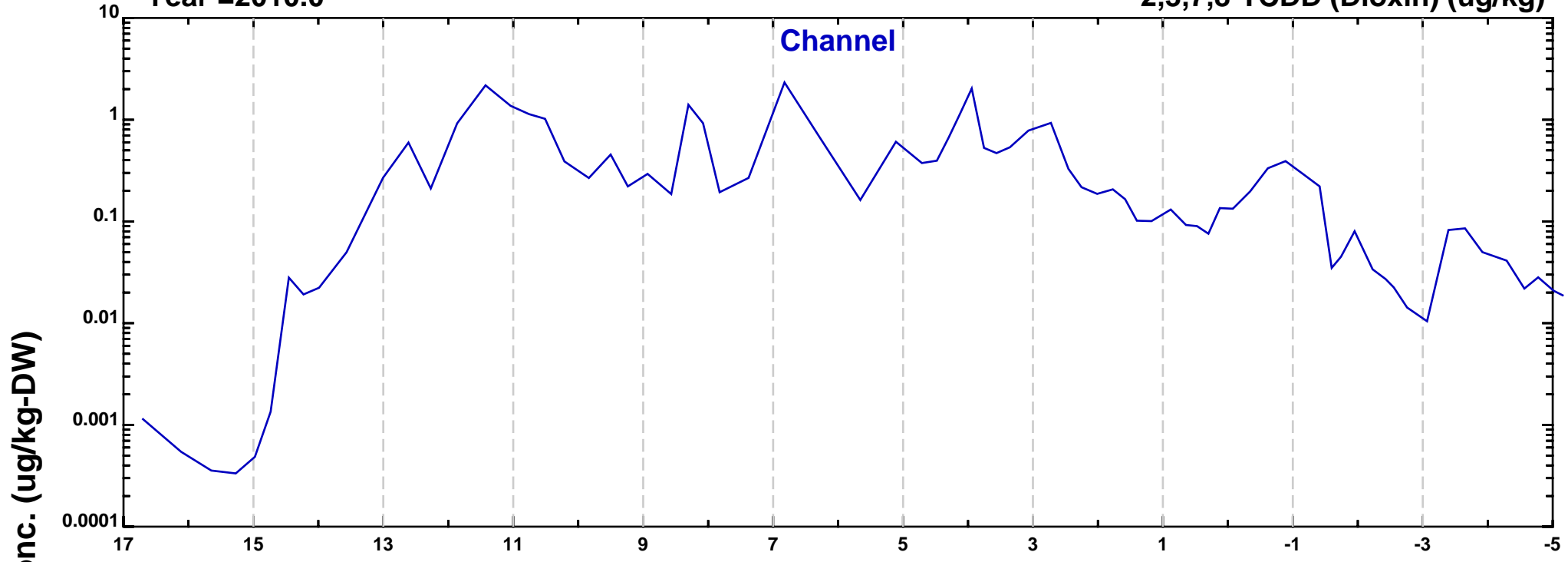
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



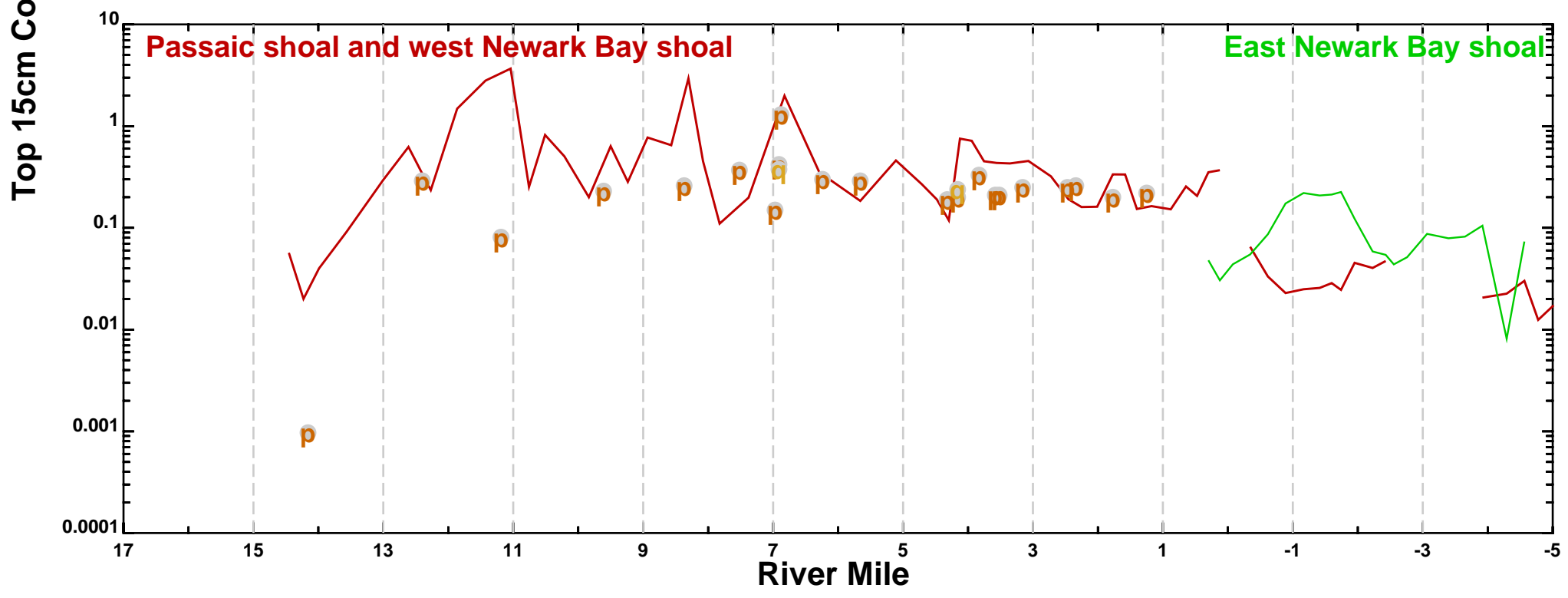
Year = 2010.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

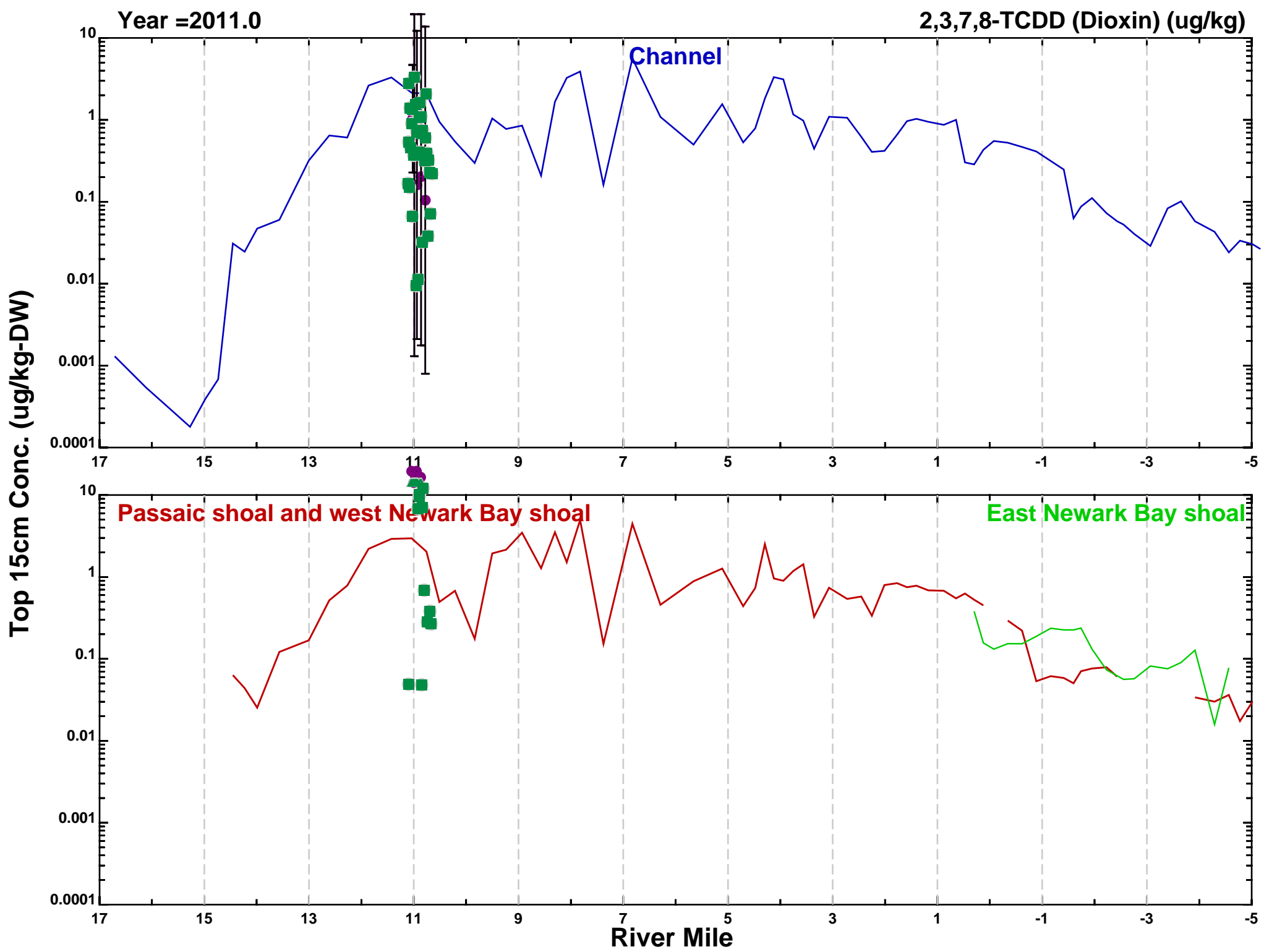


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



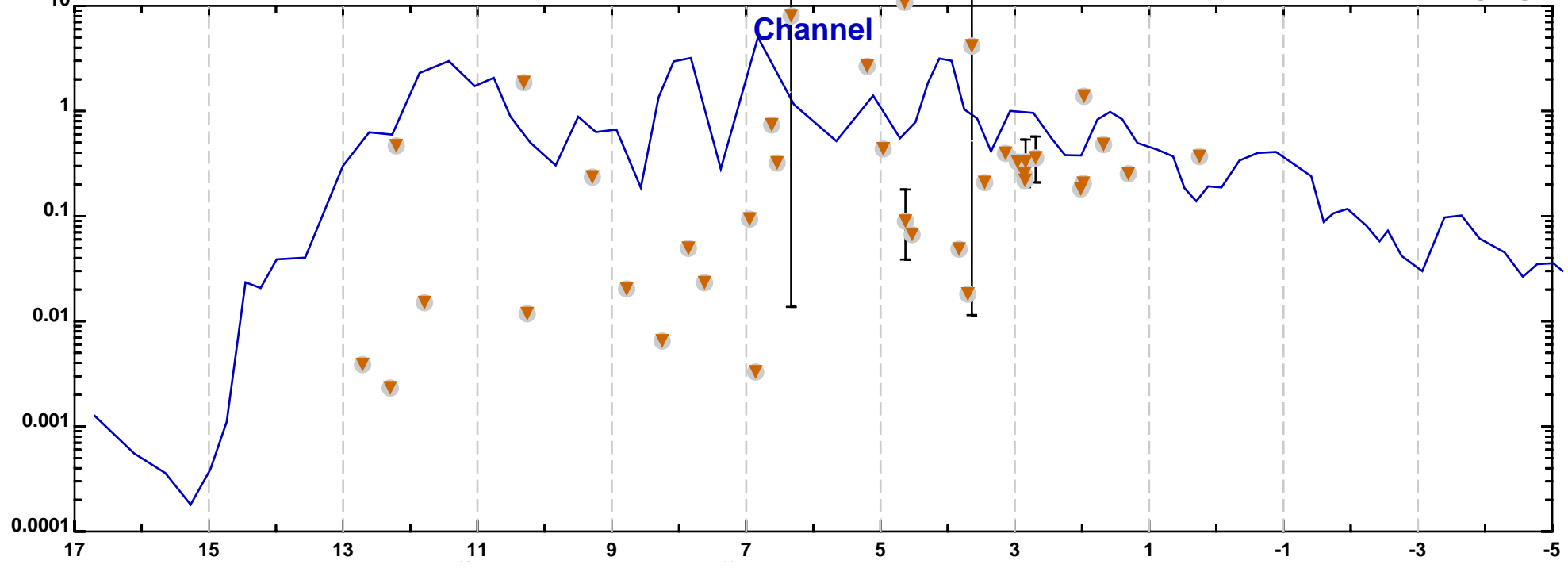
River Mile



Year = 2012.0

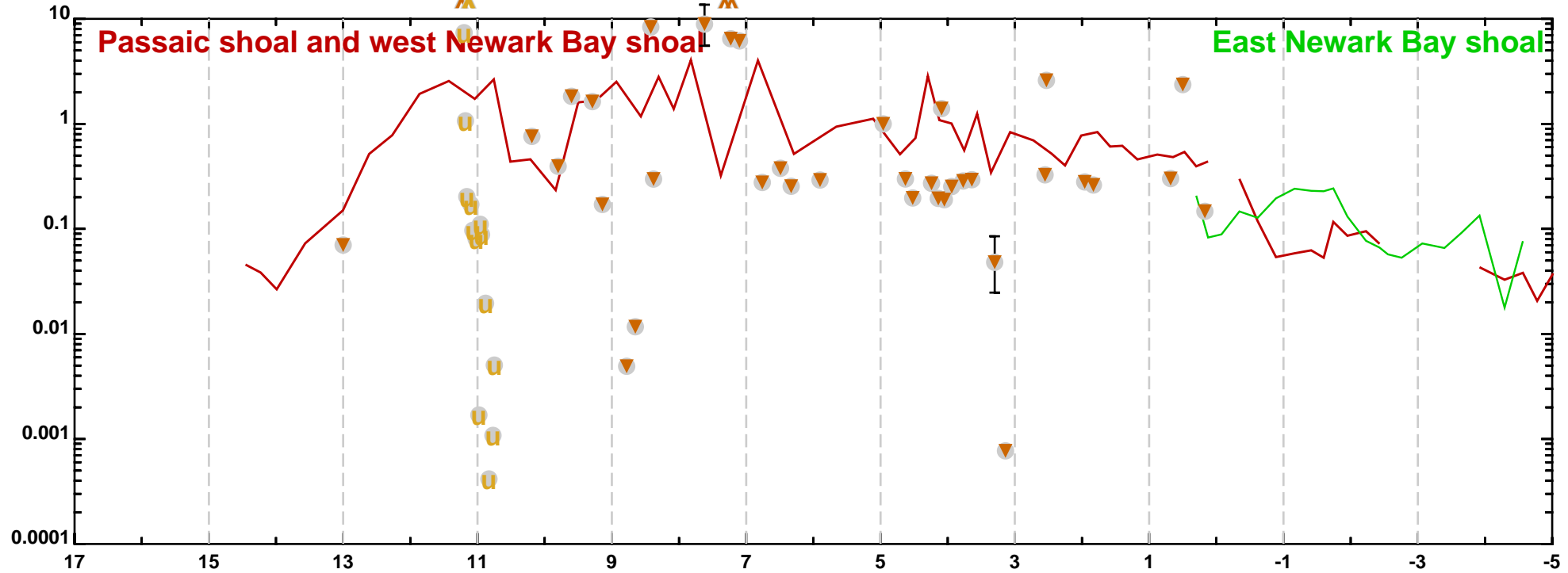
2,3,7,8-TCDD (Dioxin) (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

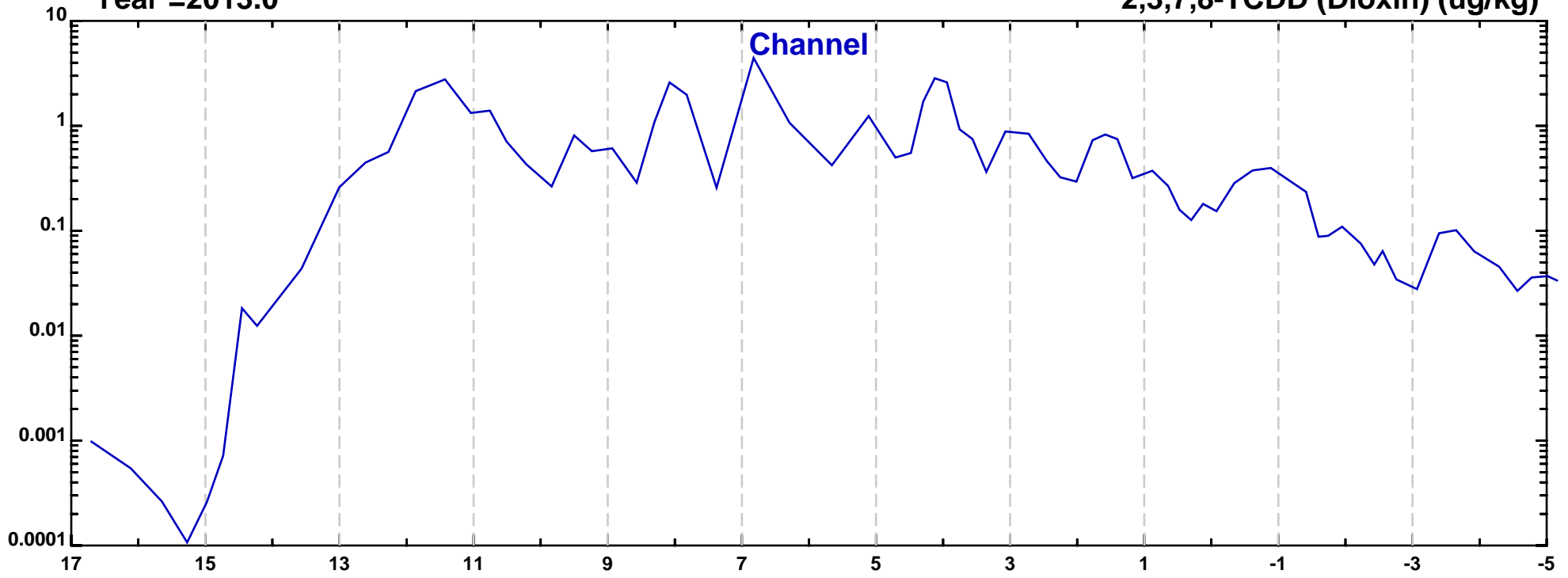


Year =2013.0

2,3,7,8-TCDD (Dioxin) (ug/kg)

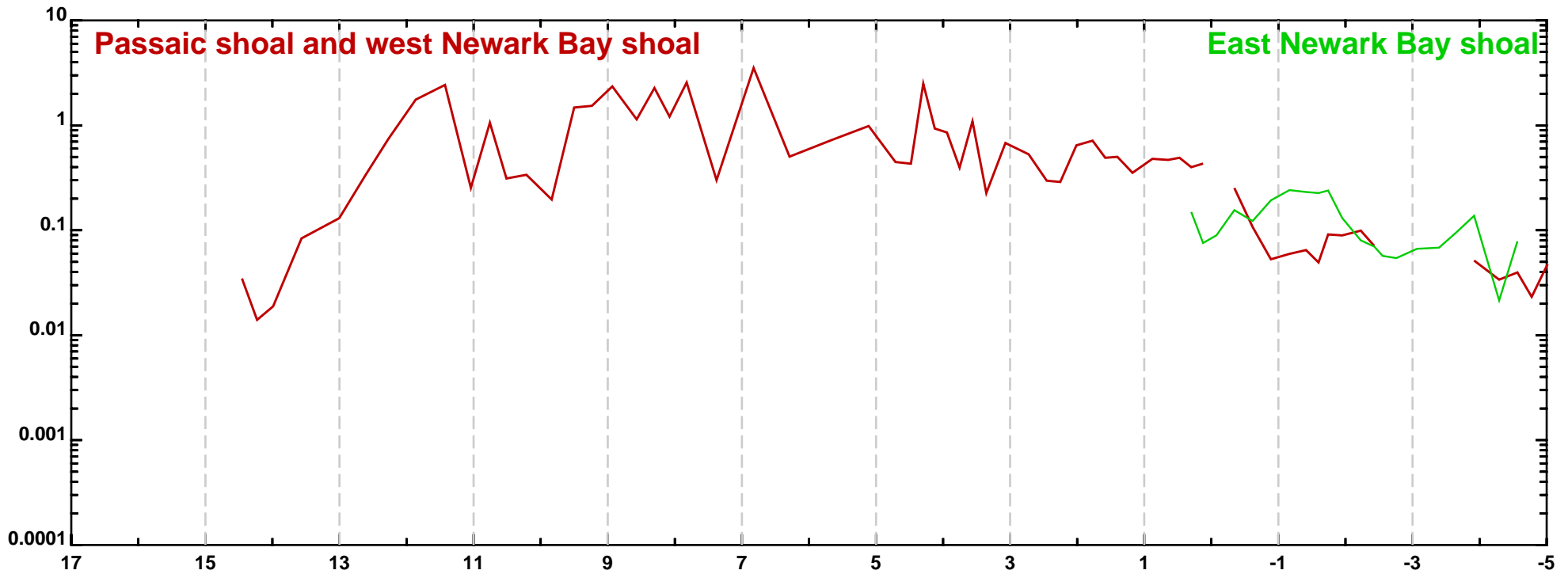
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

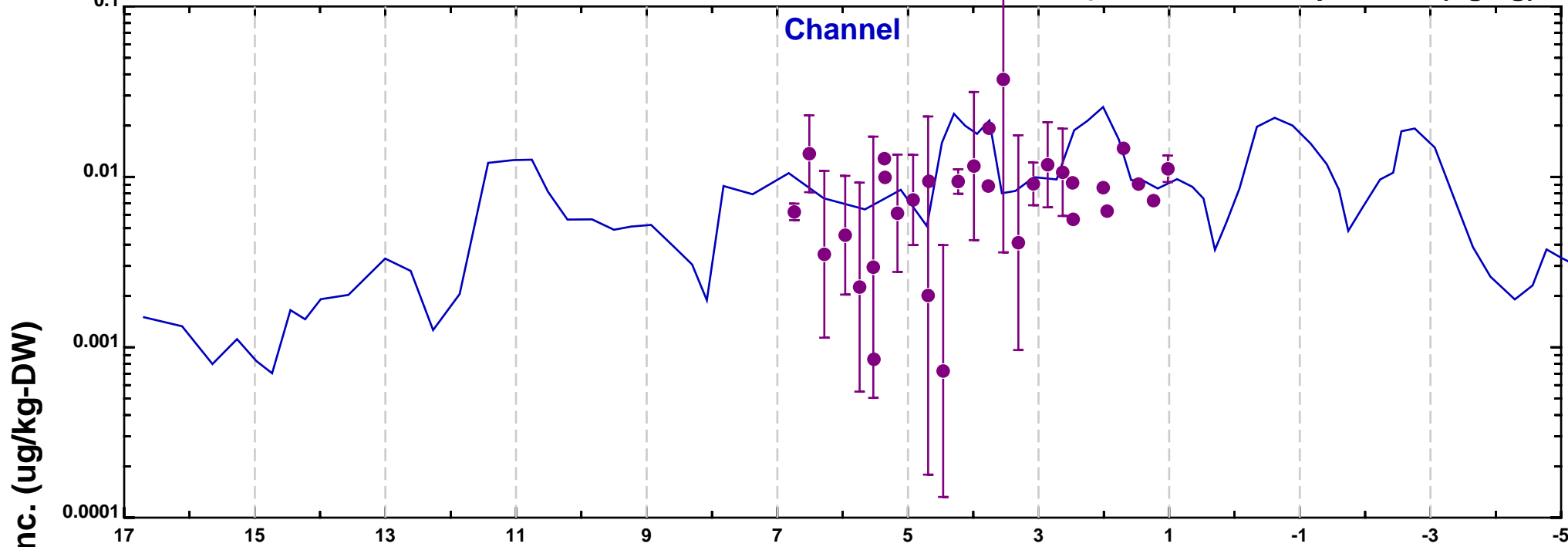
East Newark Bay shoal



River Mile

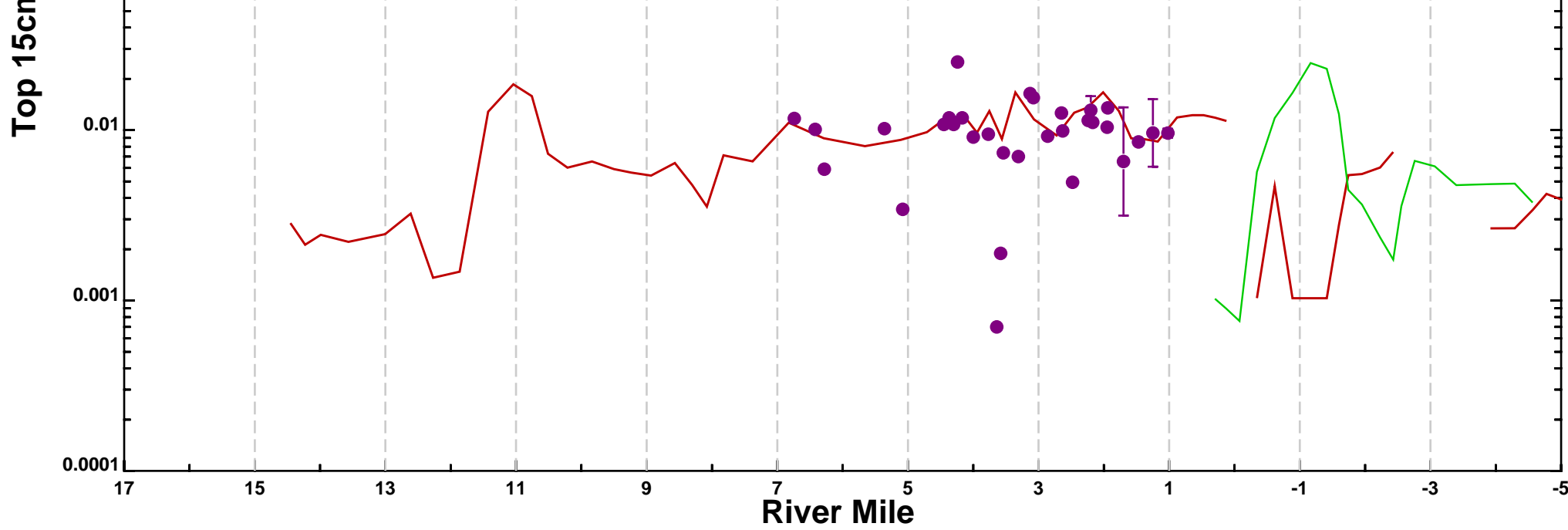
# INITIAL CONDITIONS

# 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



# Passaic shoal and west Newark Bay shoal

# East Newark Bay shoal



Year =1996.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

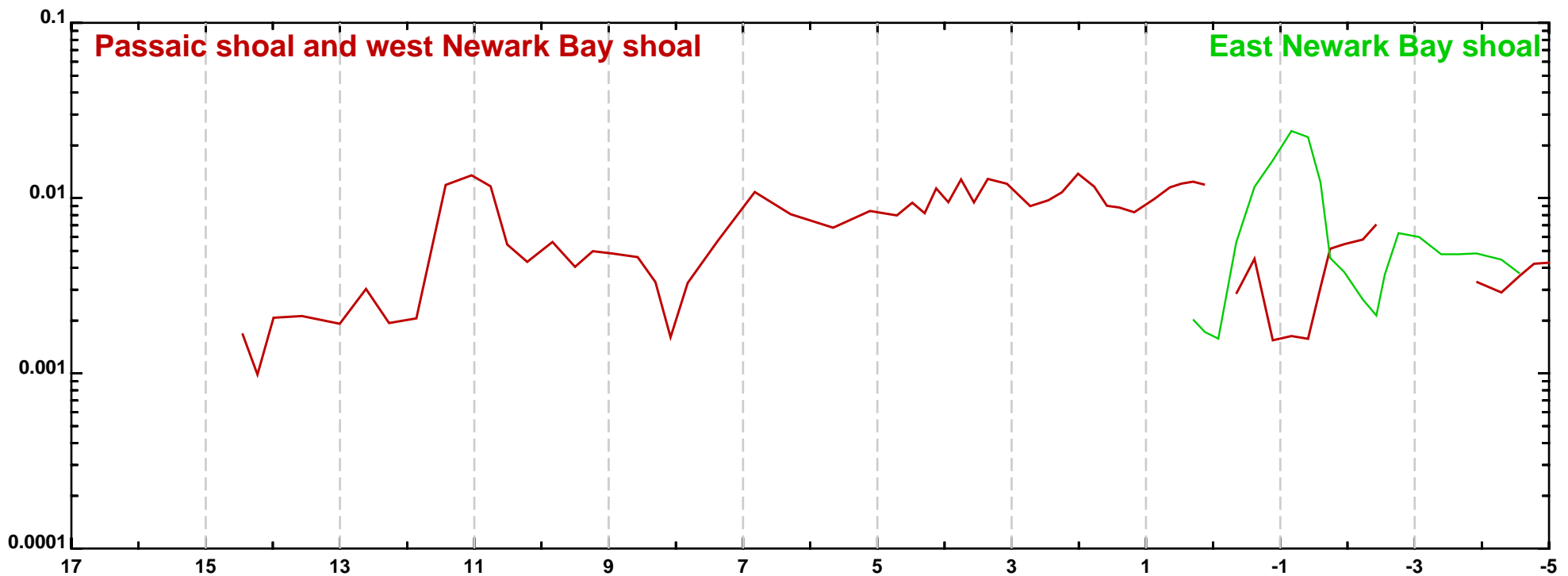
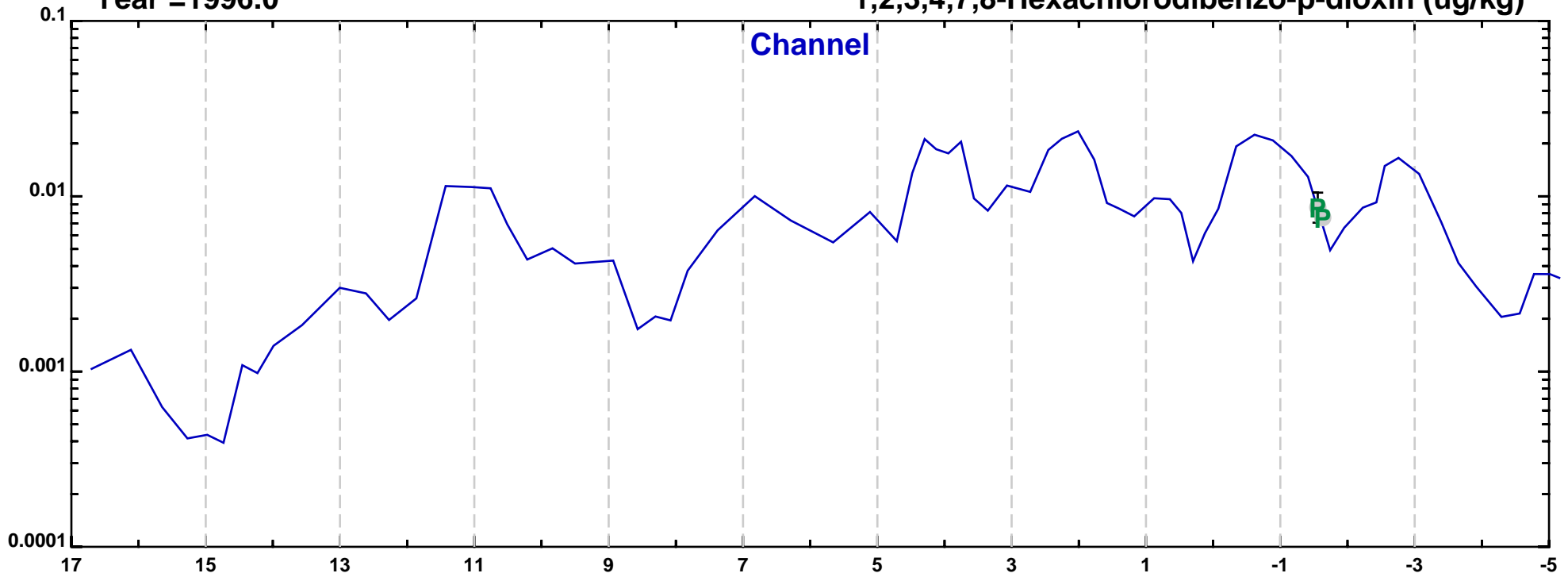
Top 15cm Conc. (ug/kg-DW)

Channel

East Newark Bay shoal

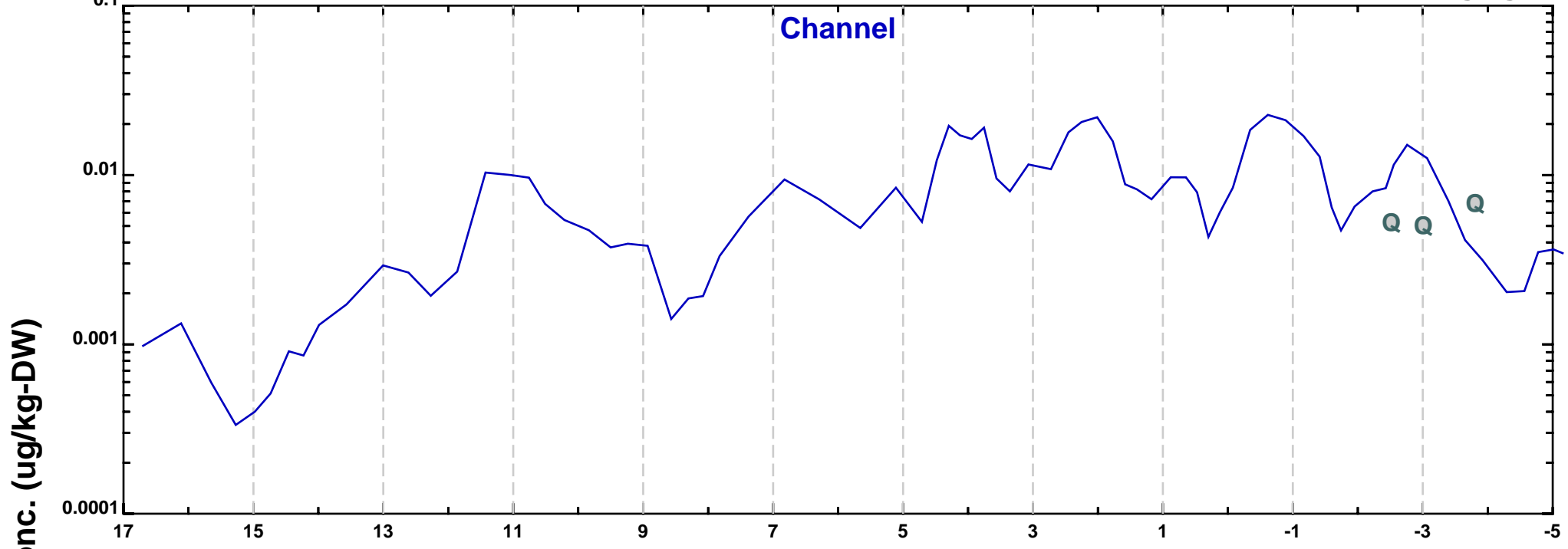
Passaic shoal and west Newark Bay shoal

River Mile



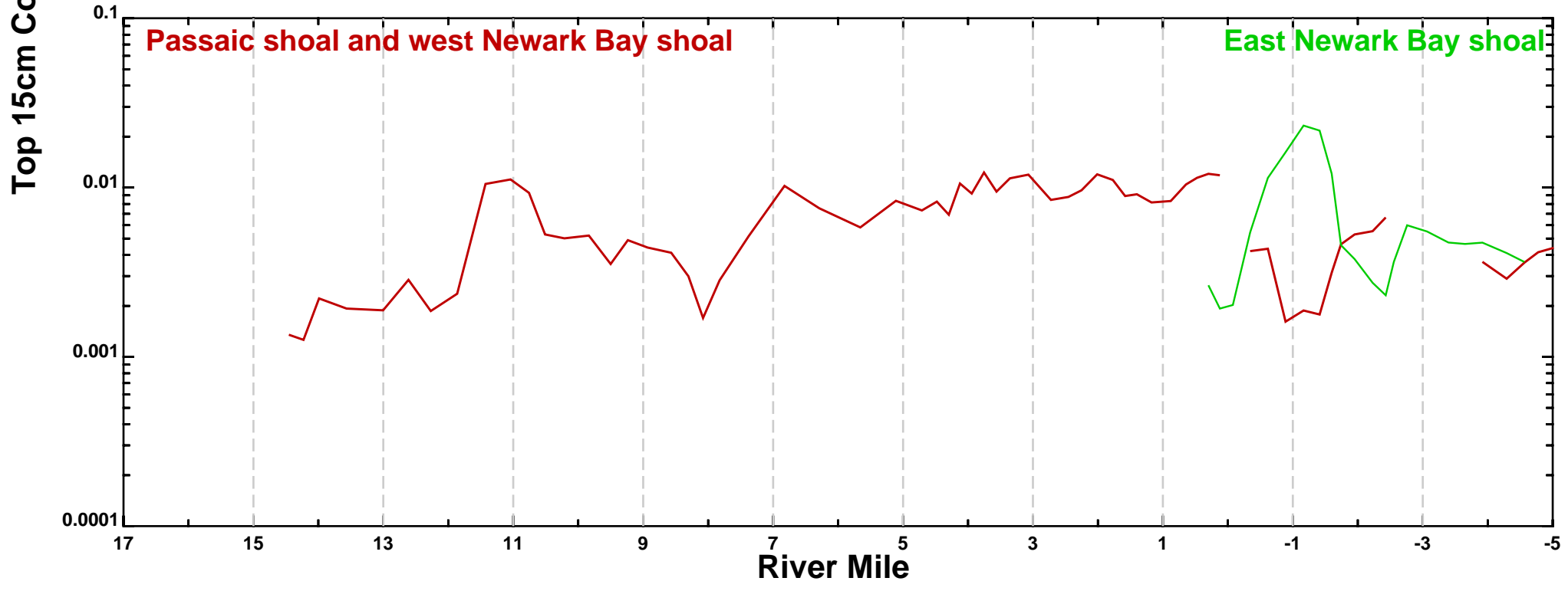
Year =1997.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



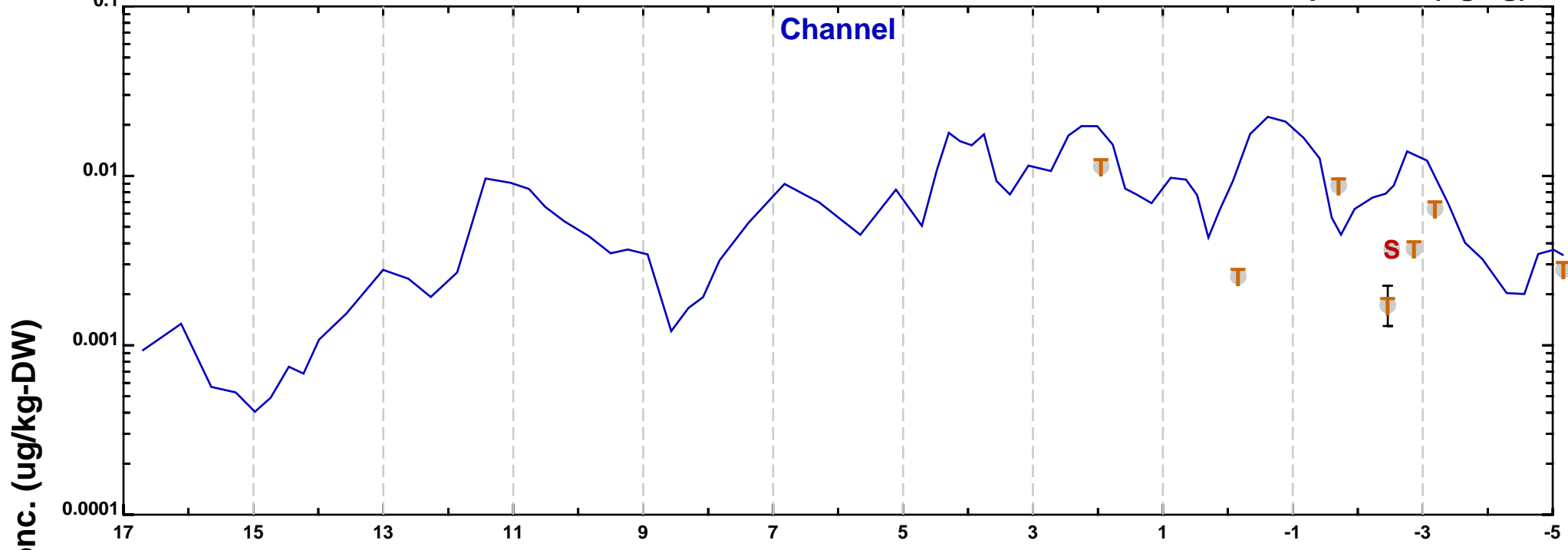
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



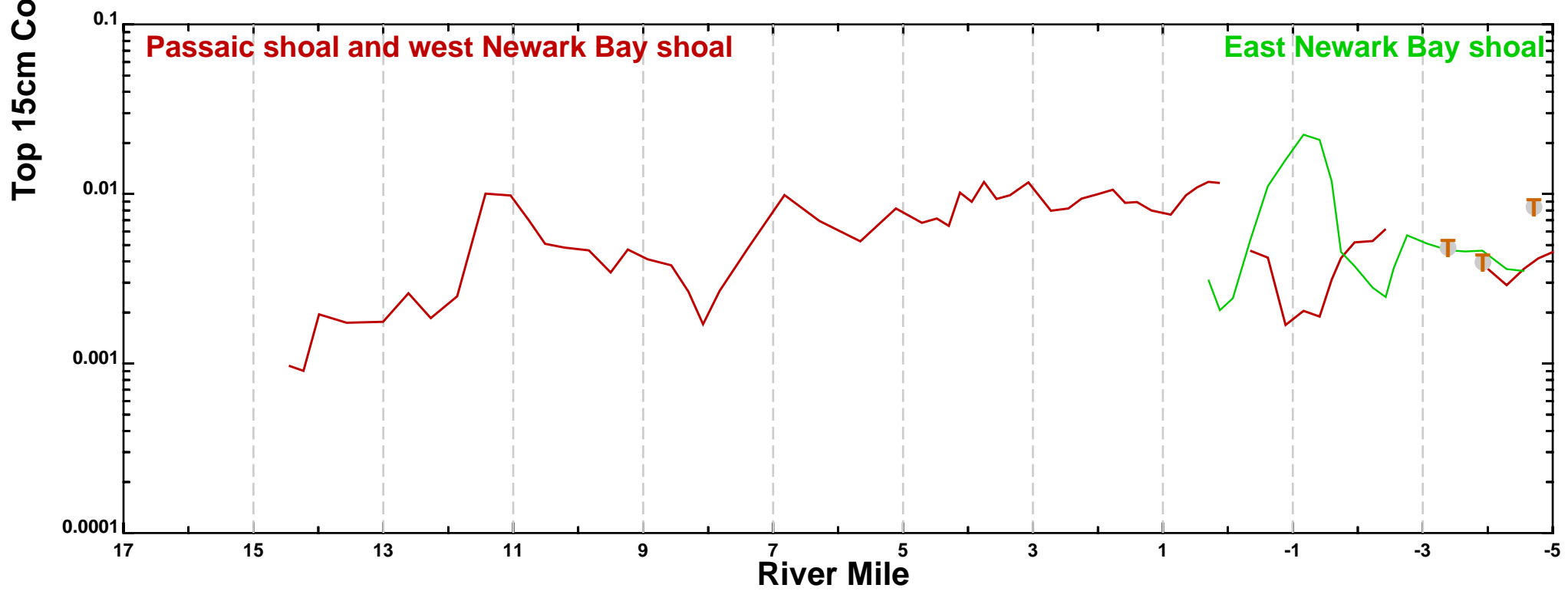
Year =1998.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



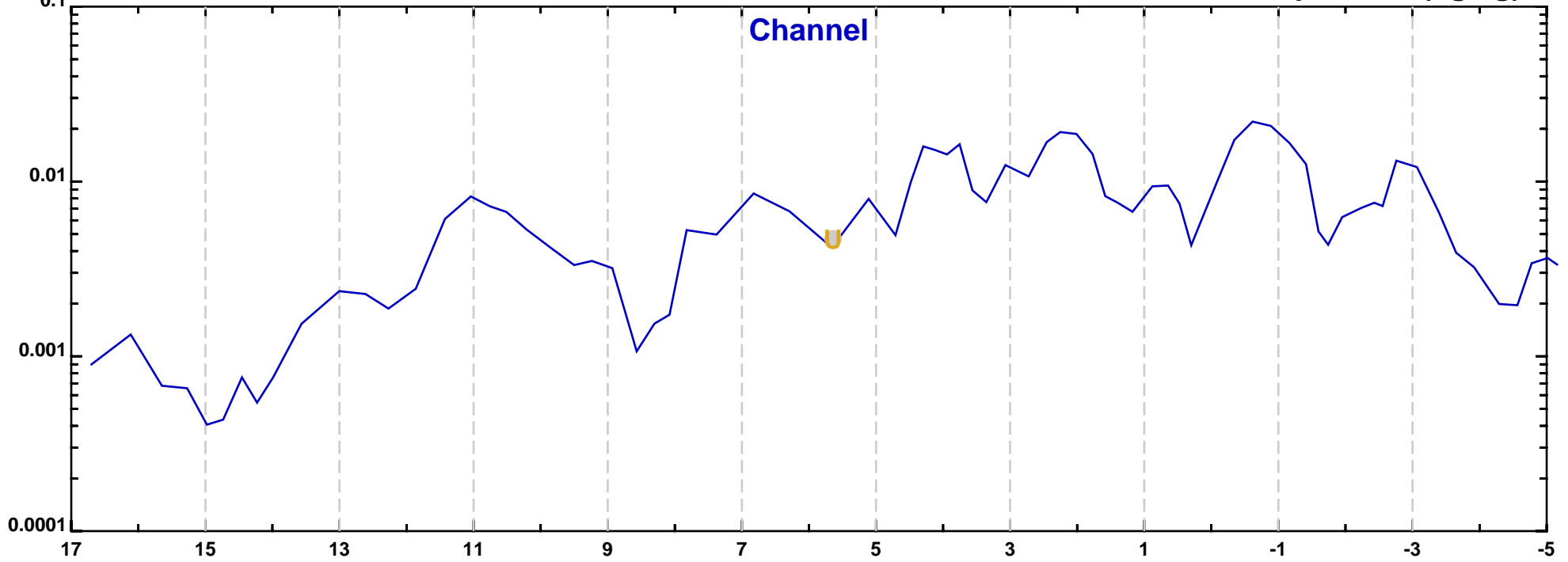
River Mile

Year =1999.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

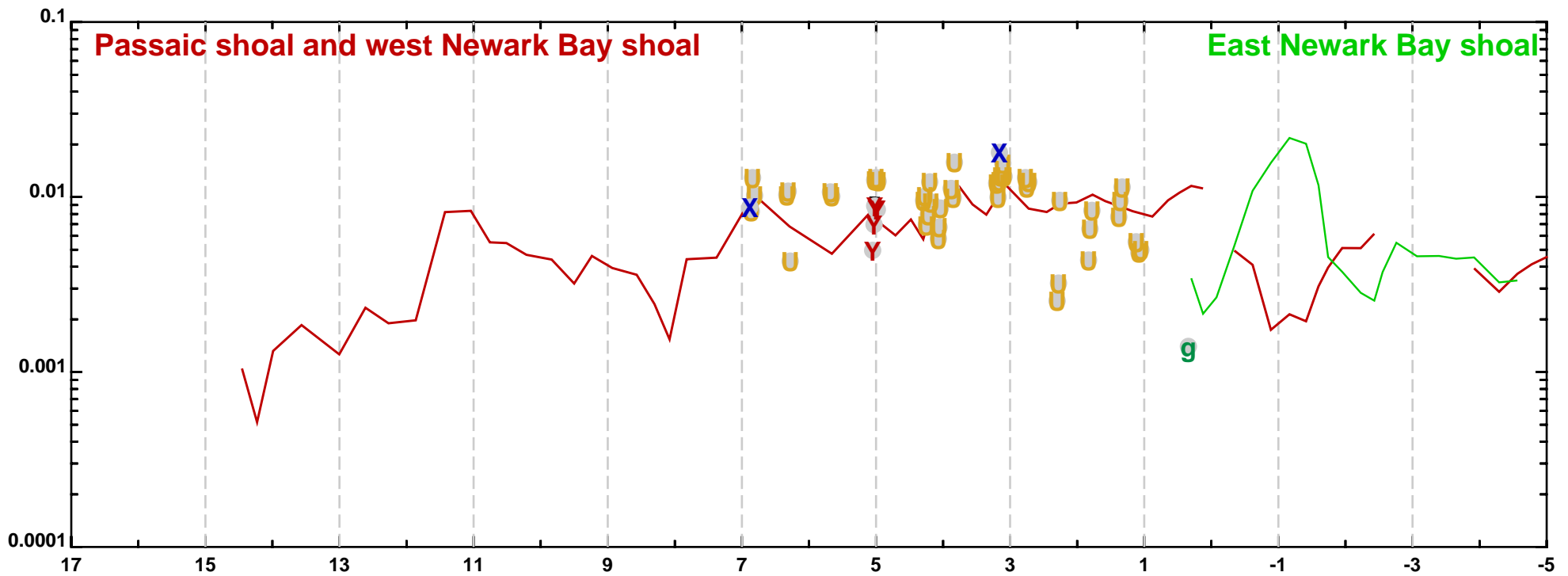
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

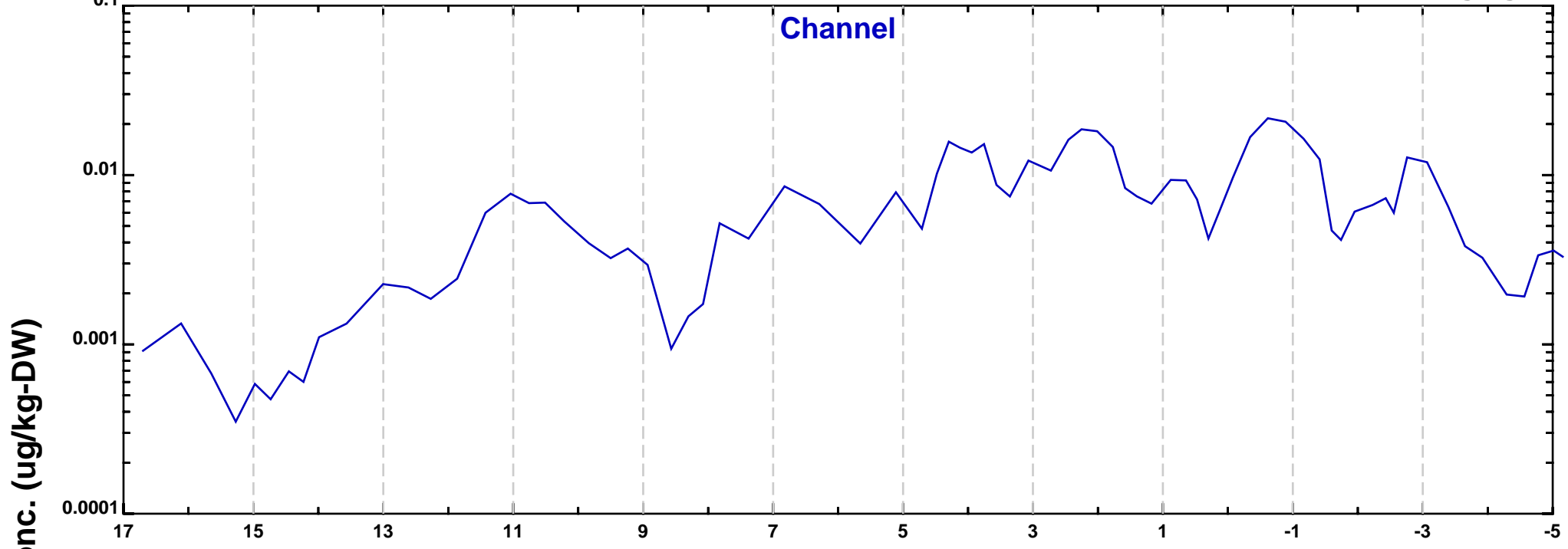
East Newark Bay shoal



River Mile

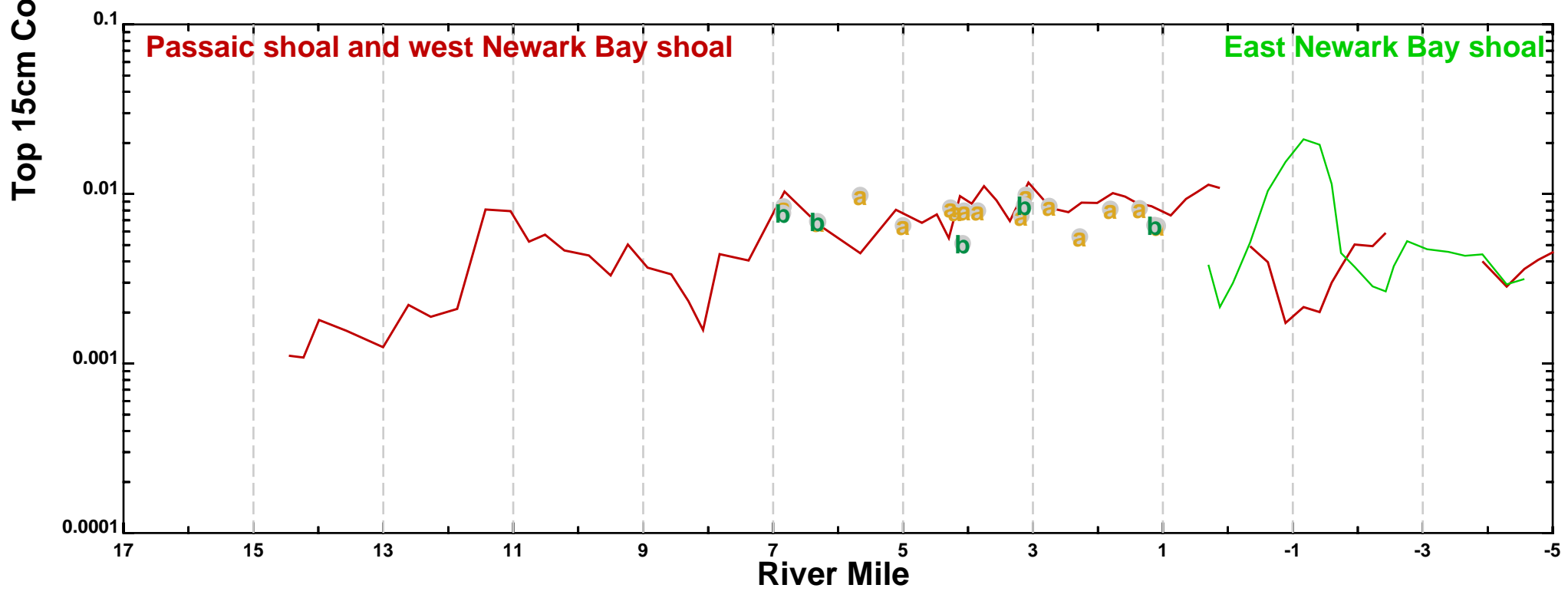
Year =2000.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



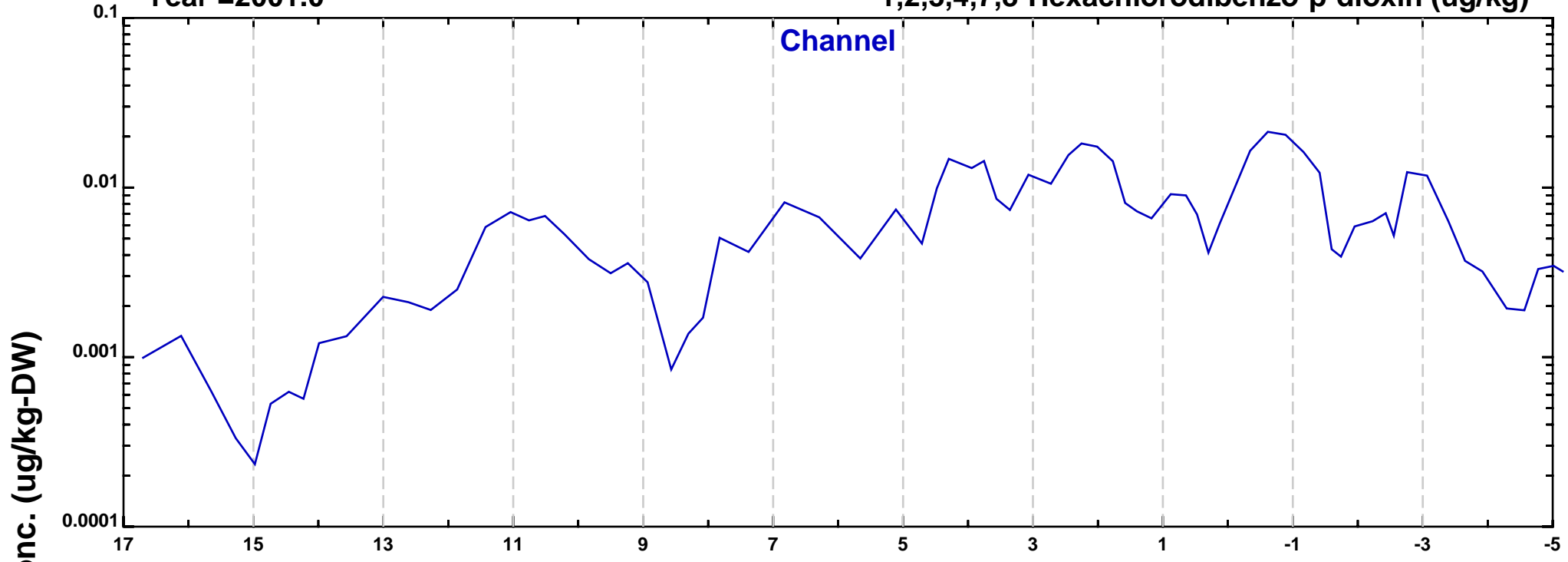
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



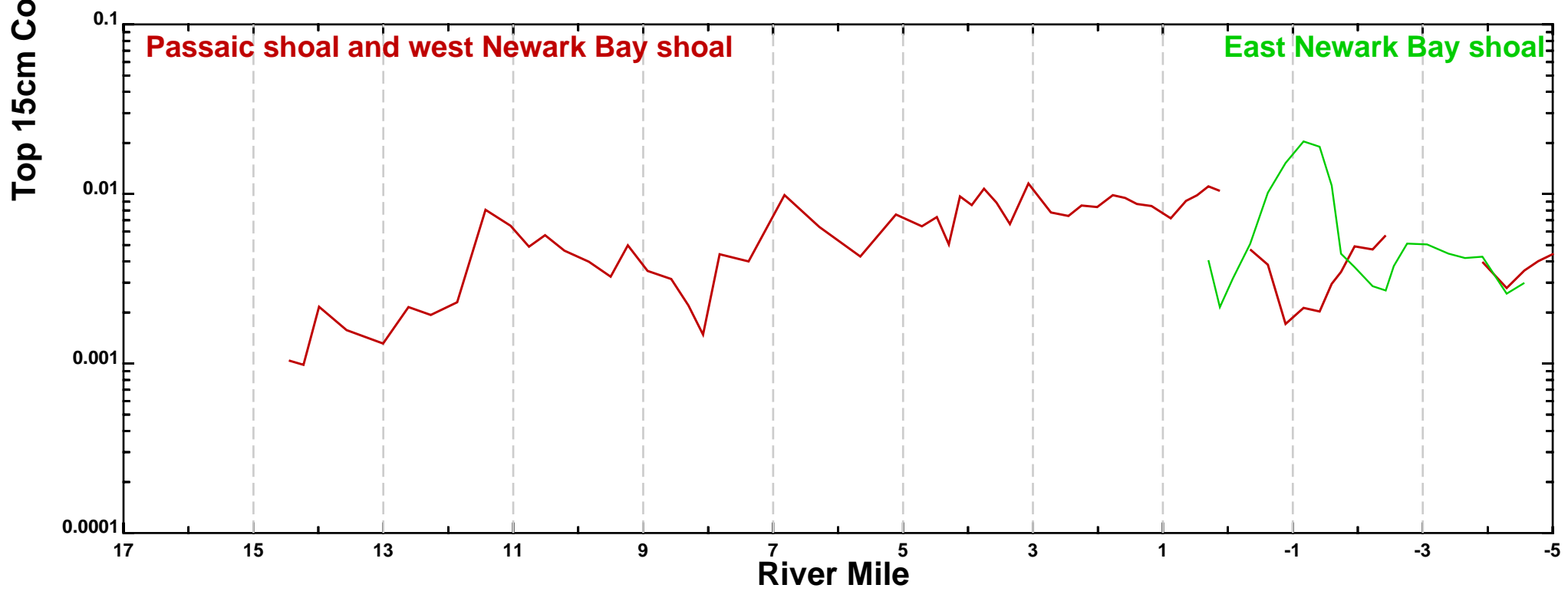
Year =2001.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

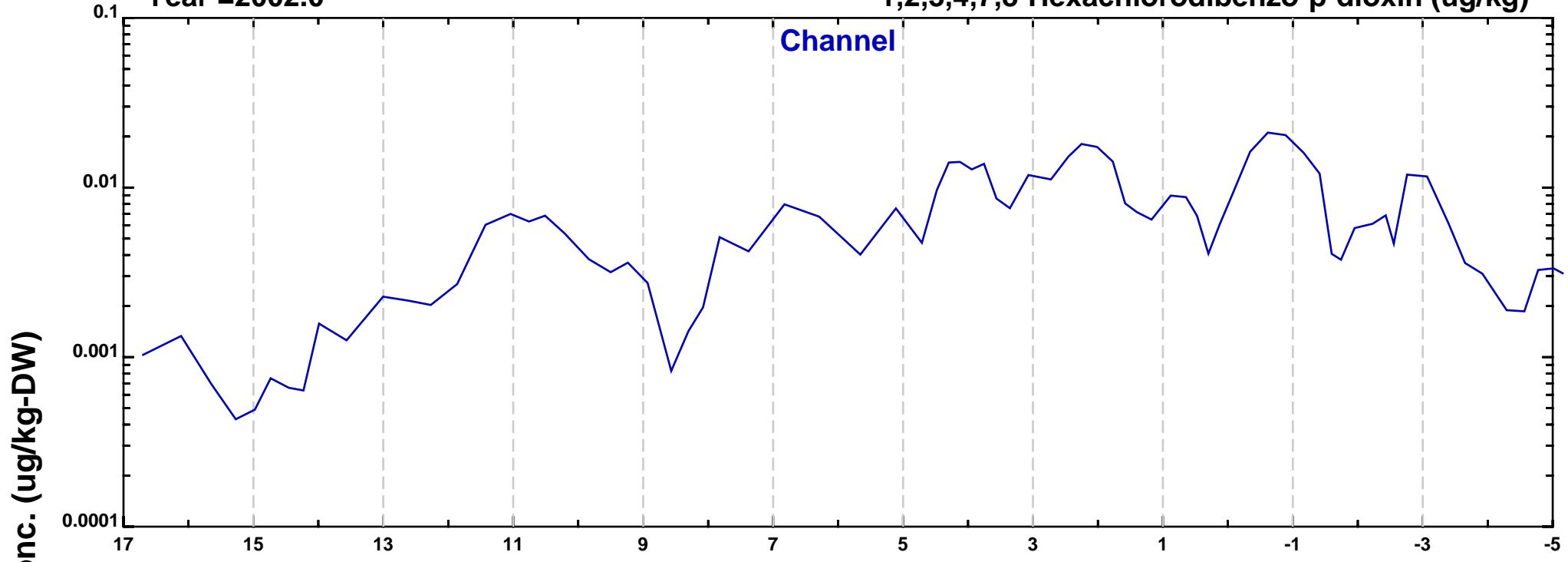
East Newark Bay shoal





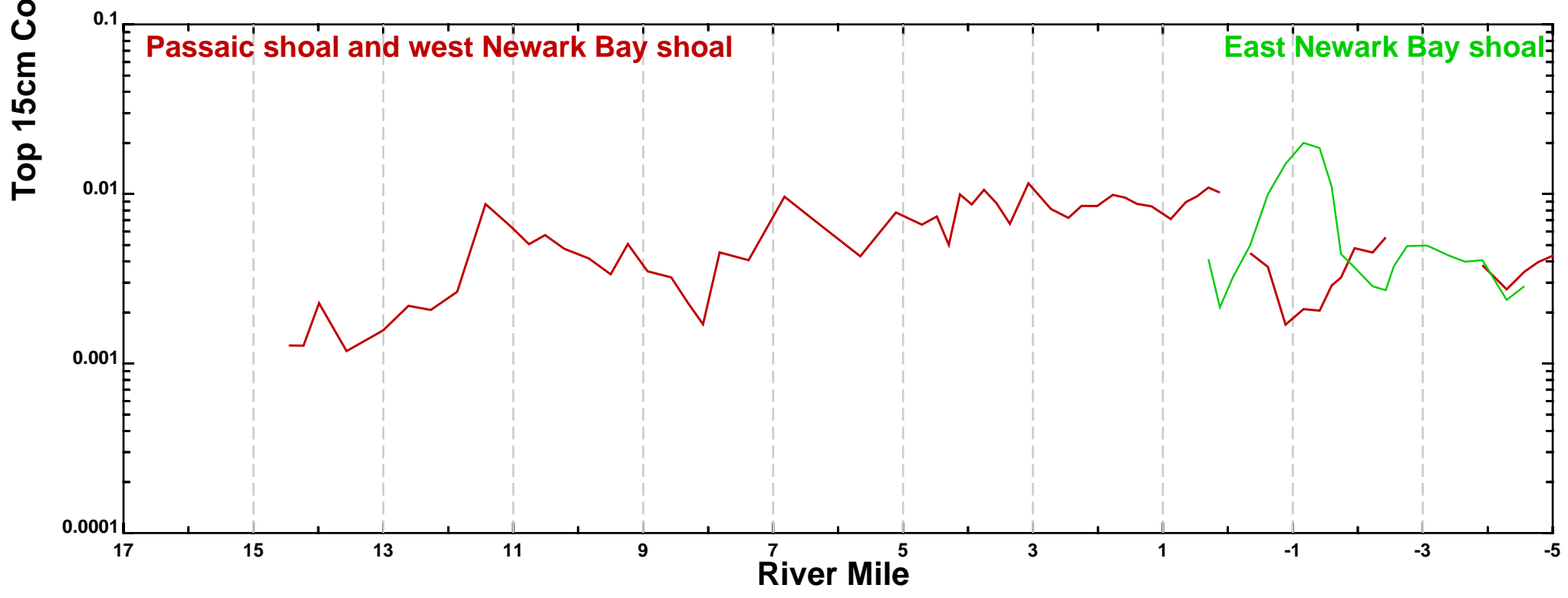
Year =2002.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



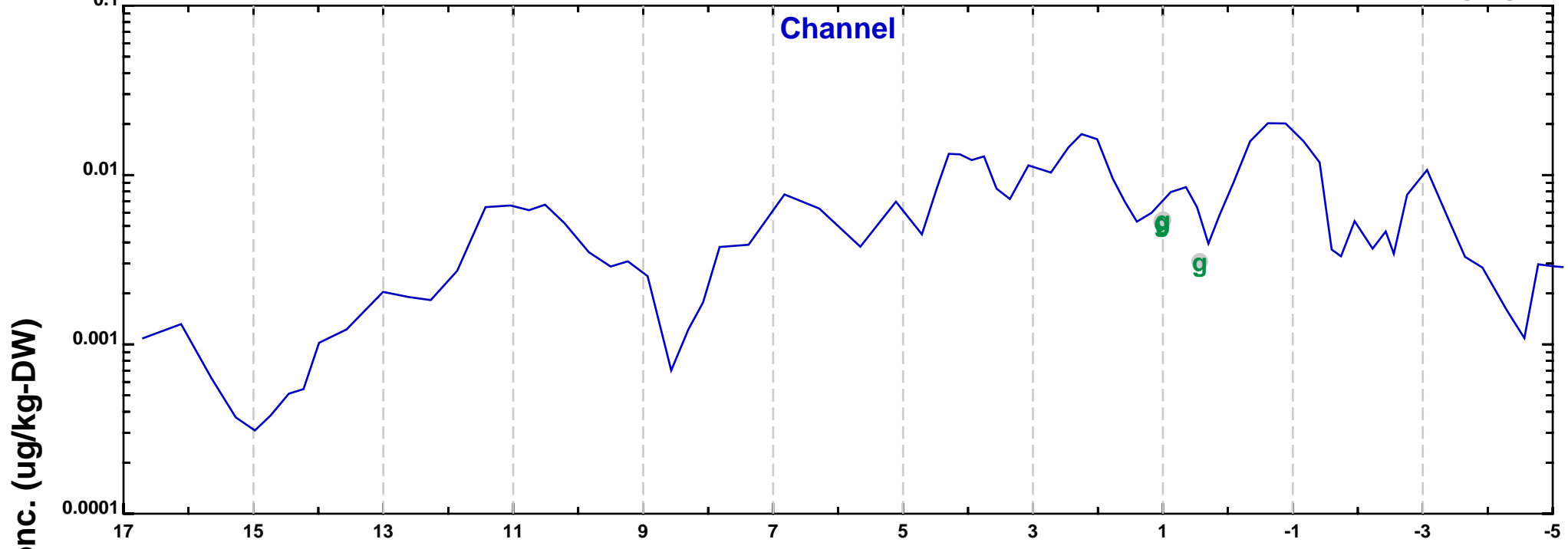
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



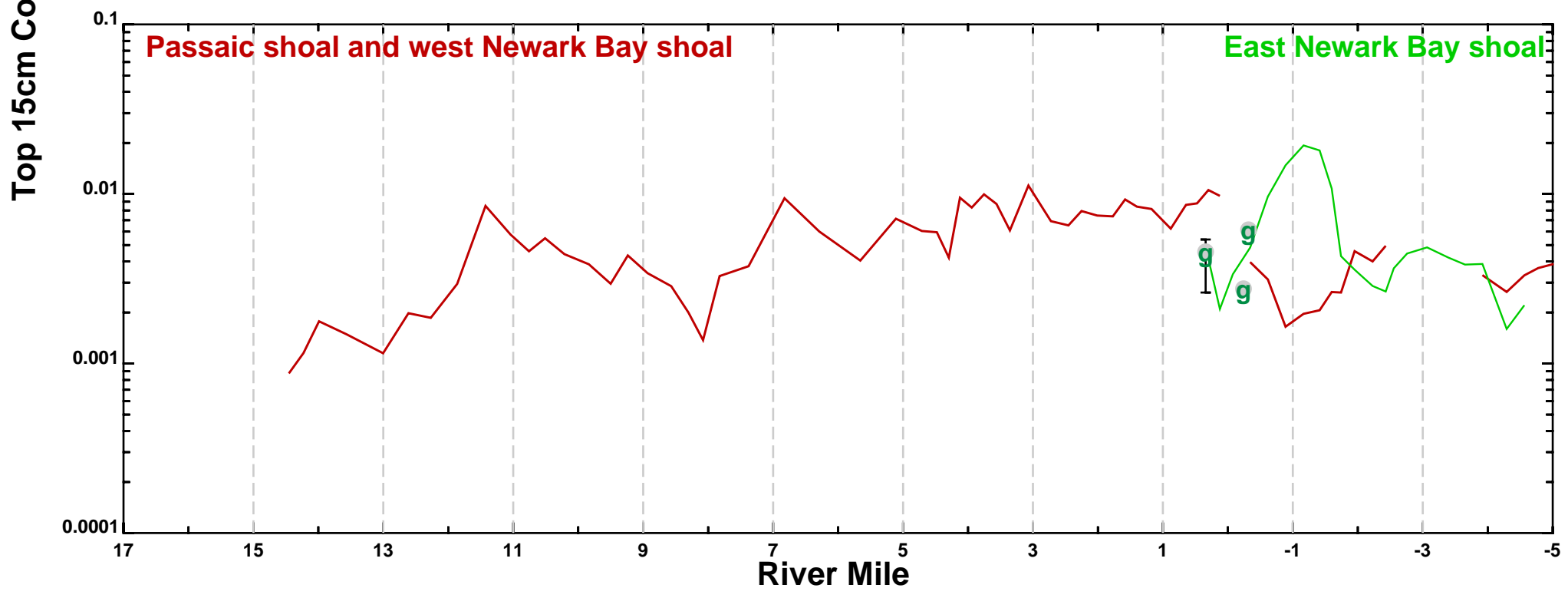
Year =2003.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



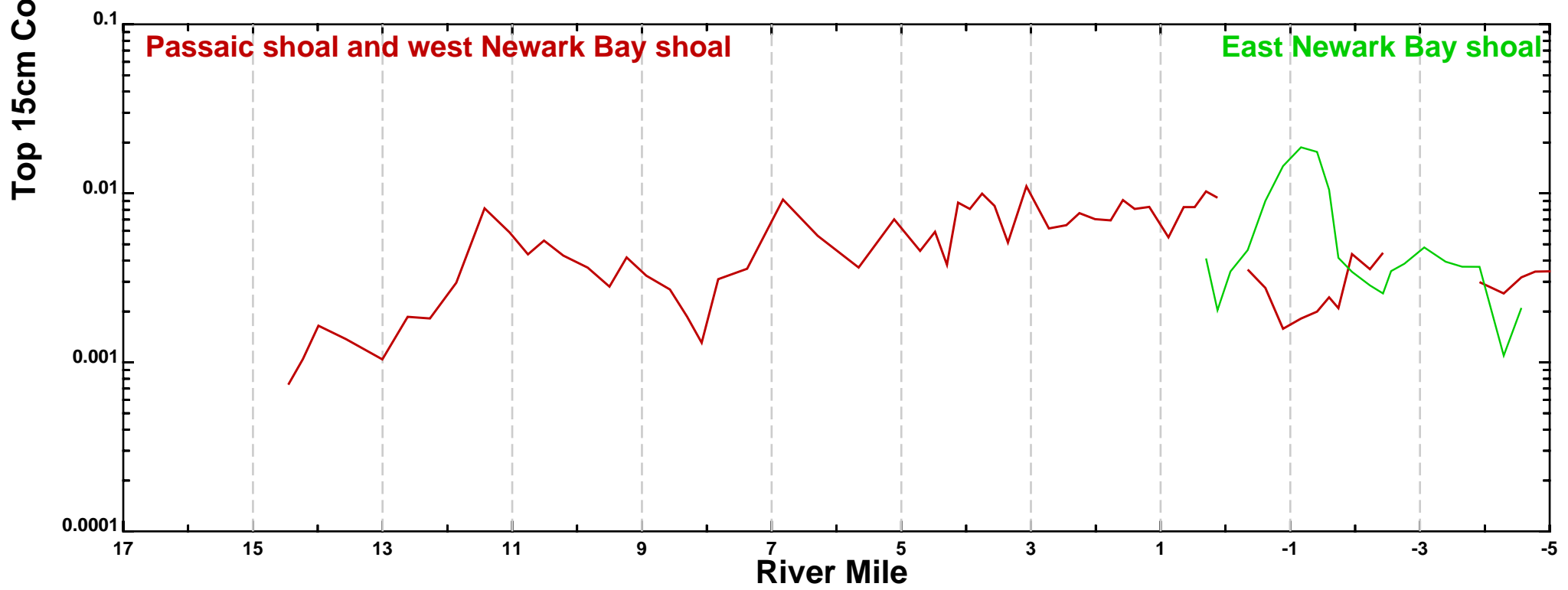
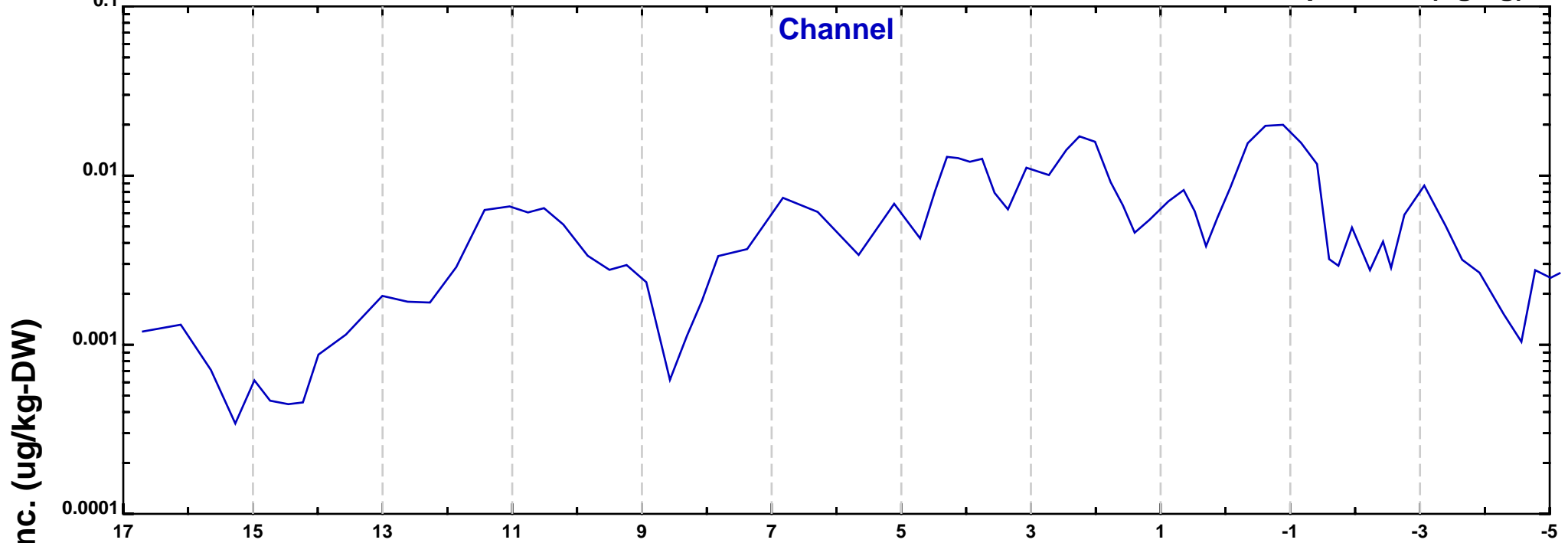
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



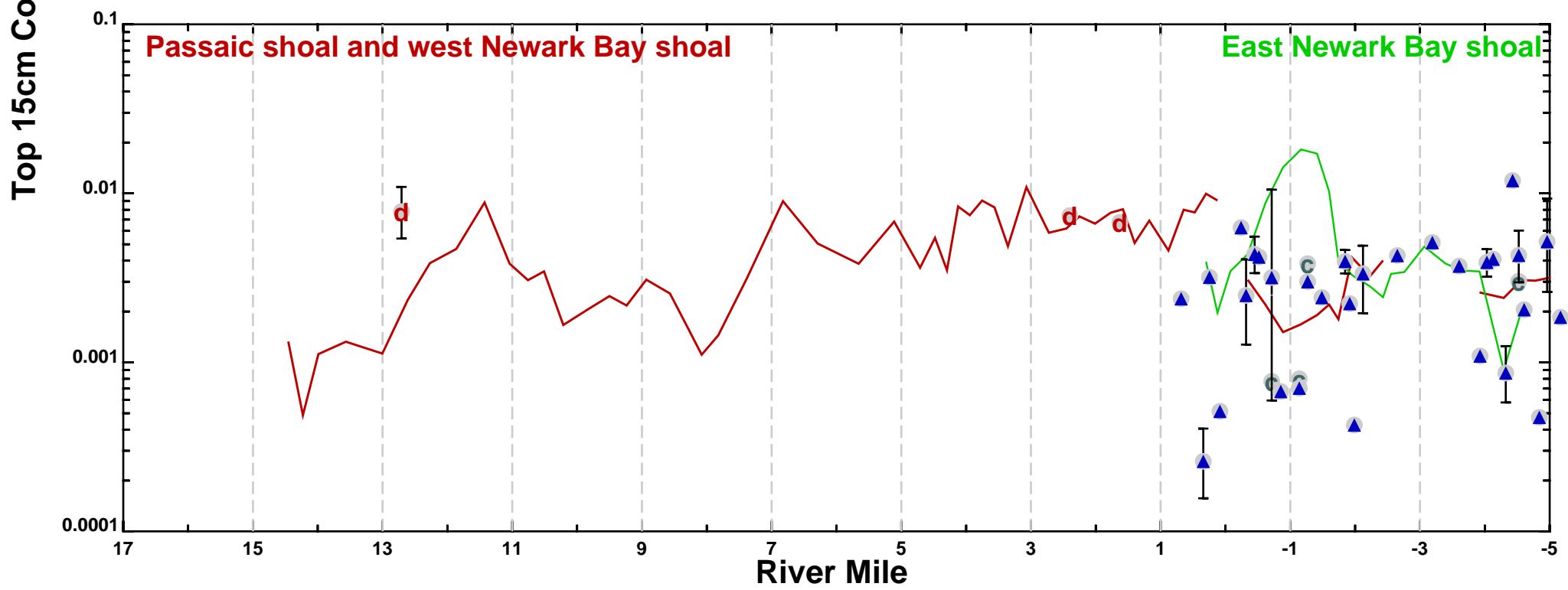
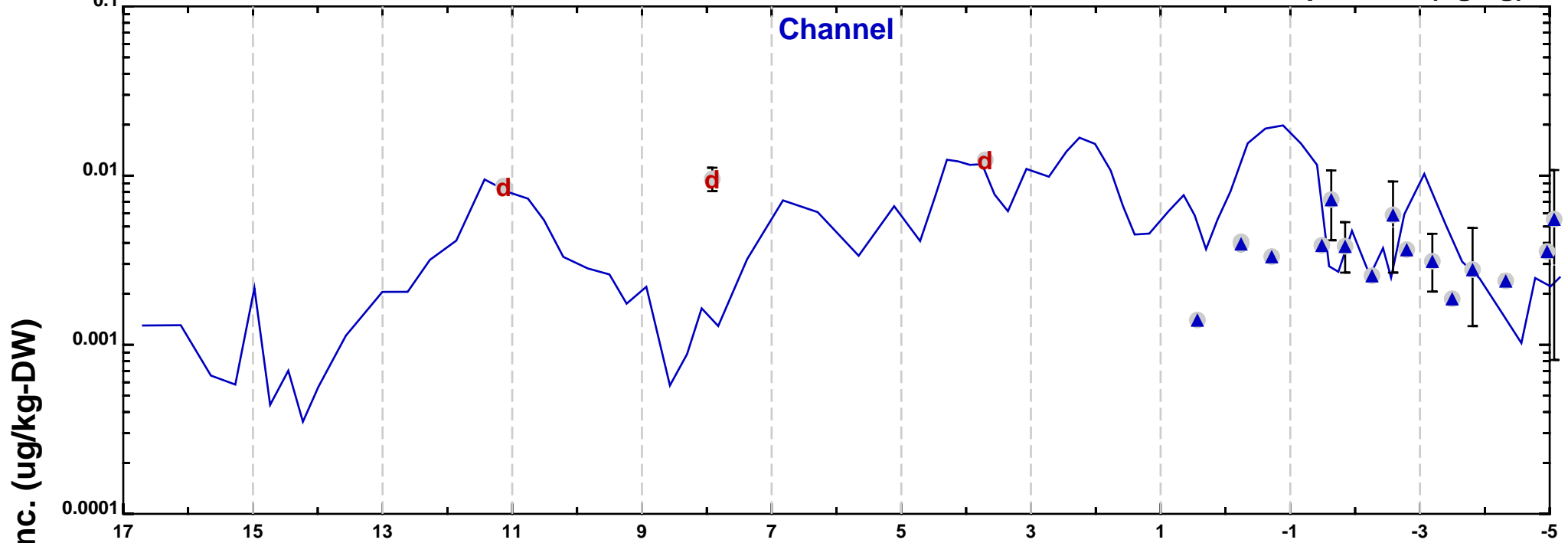
Year =2004.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



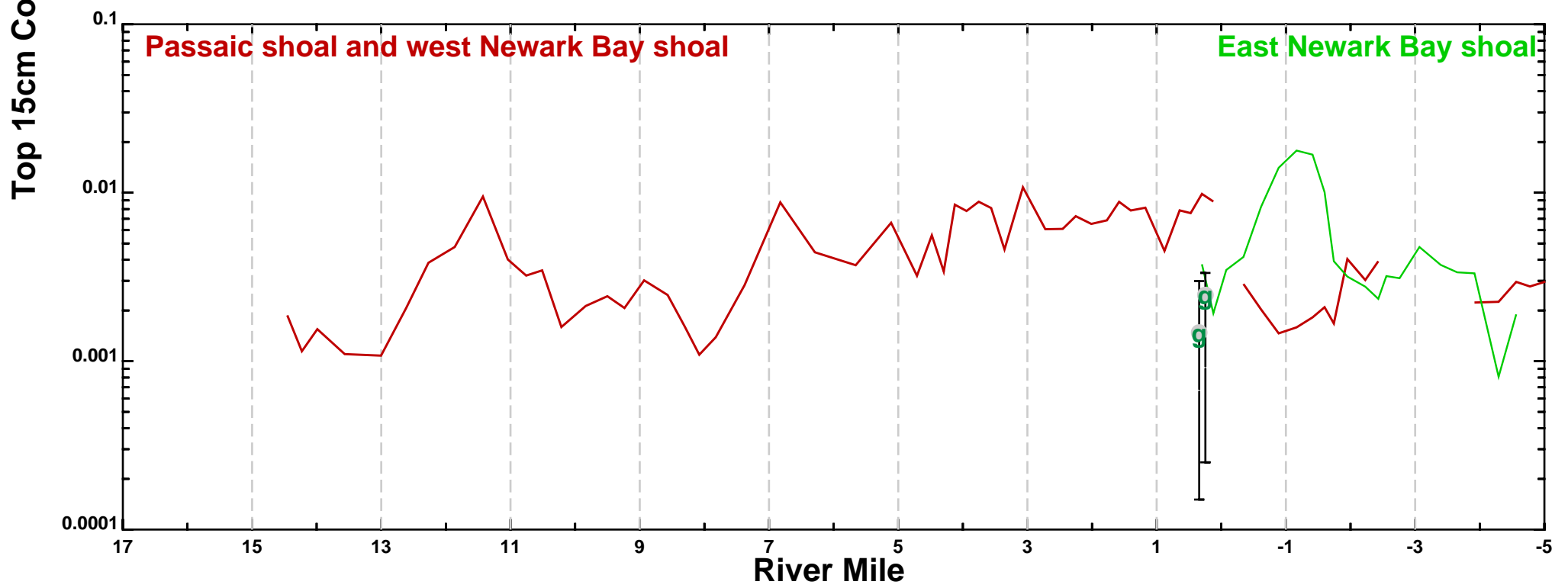
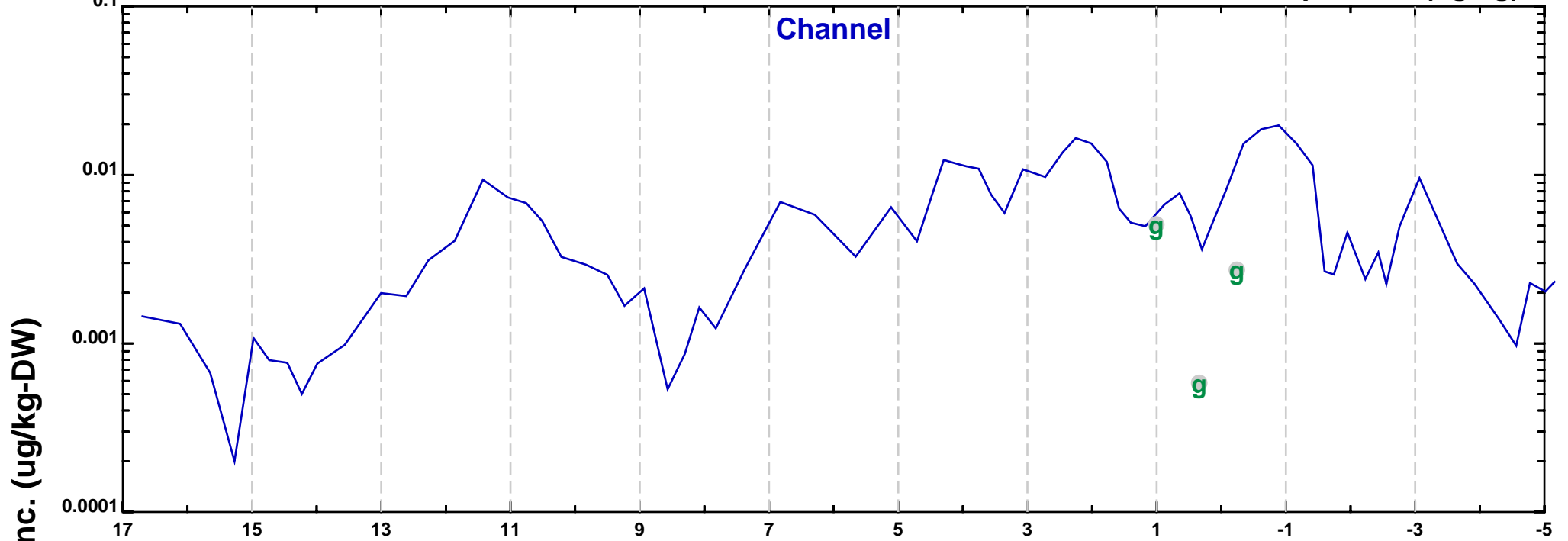
Year =2005.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



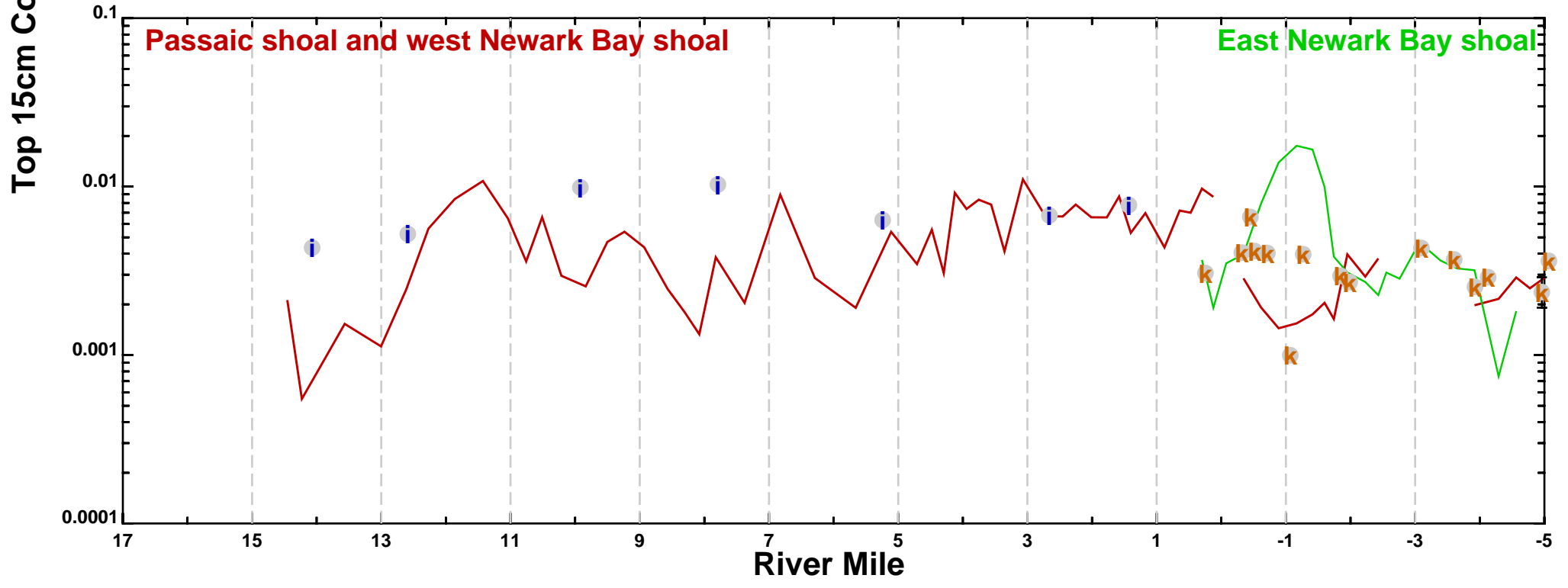
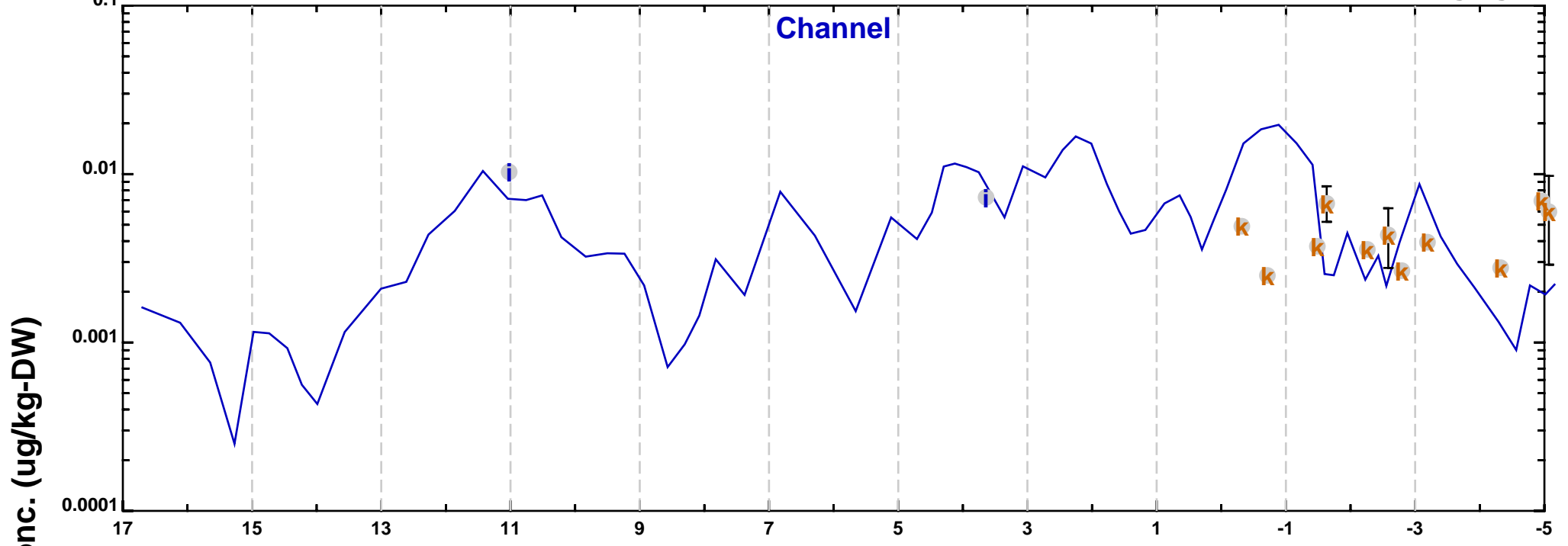
Year =2006.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



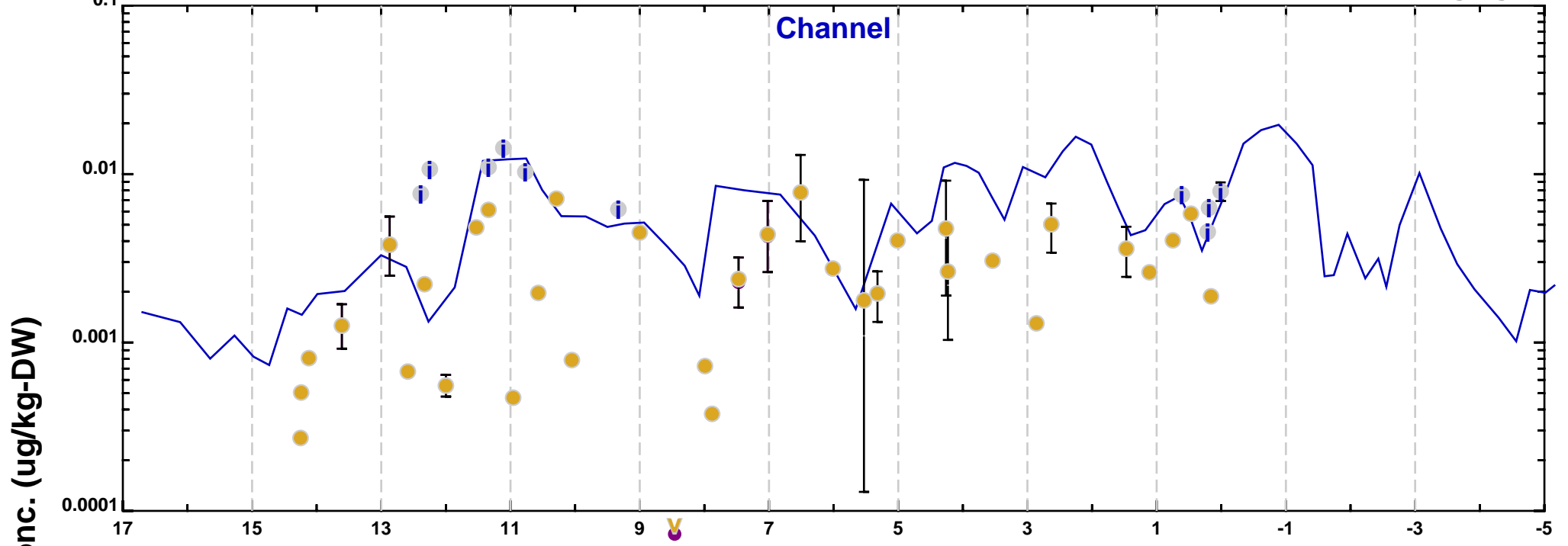
Year =2007.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



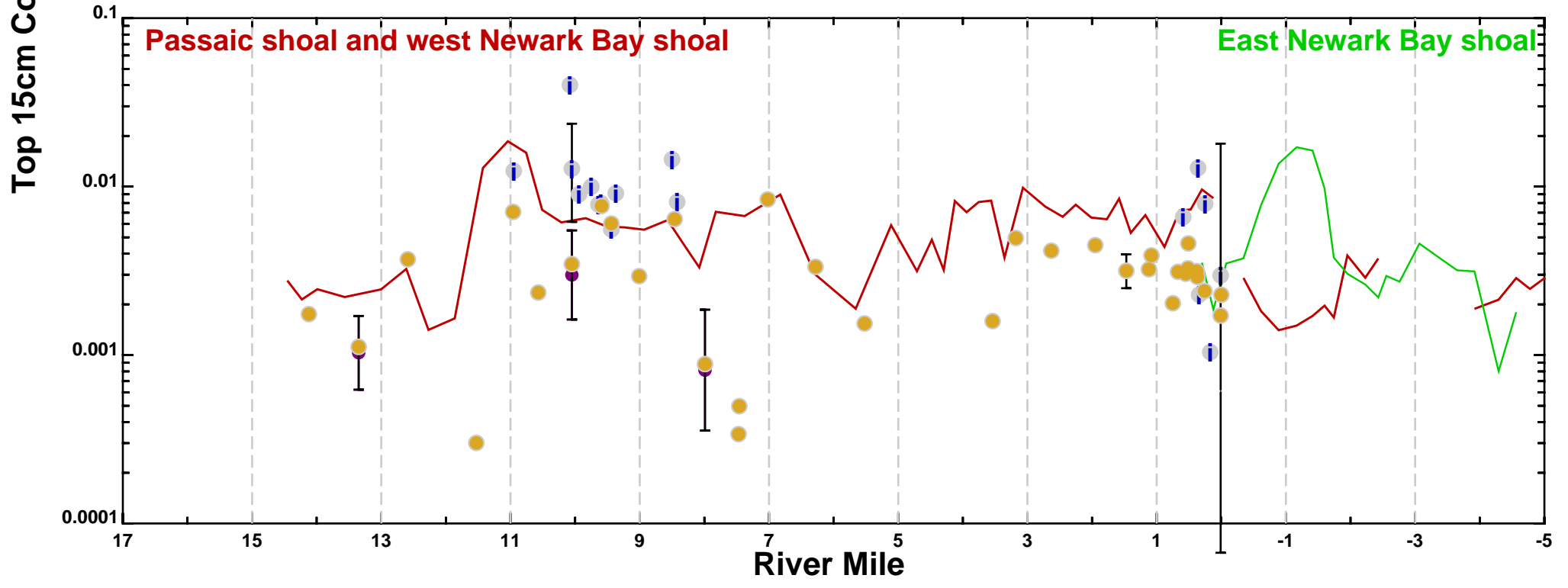
Year =2008.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



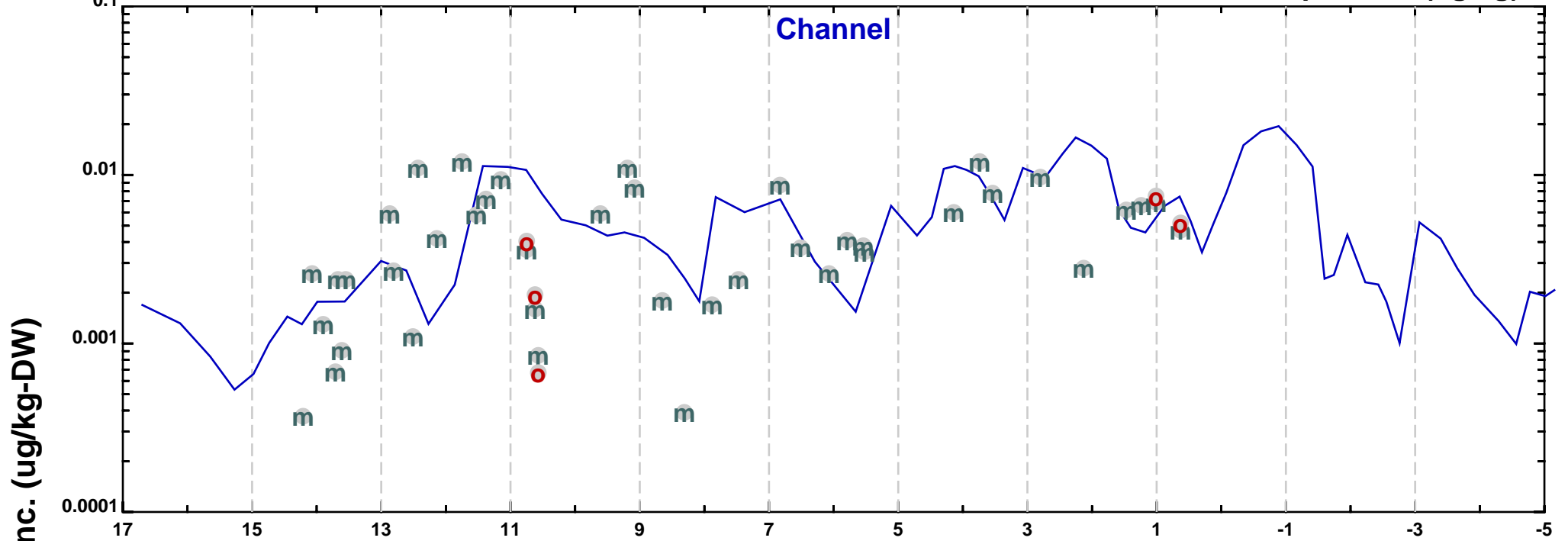
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



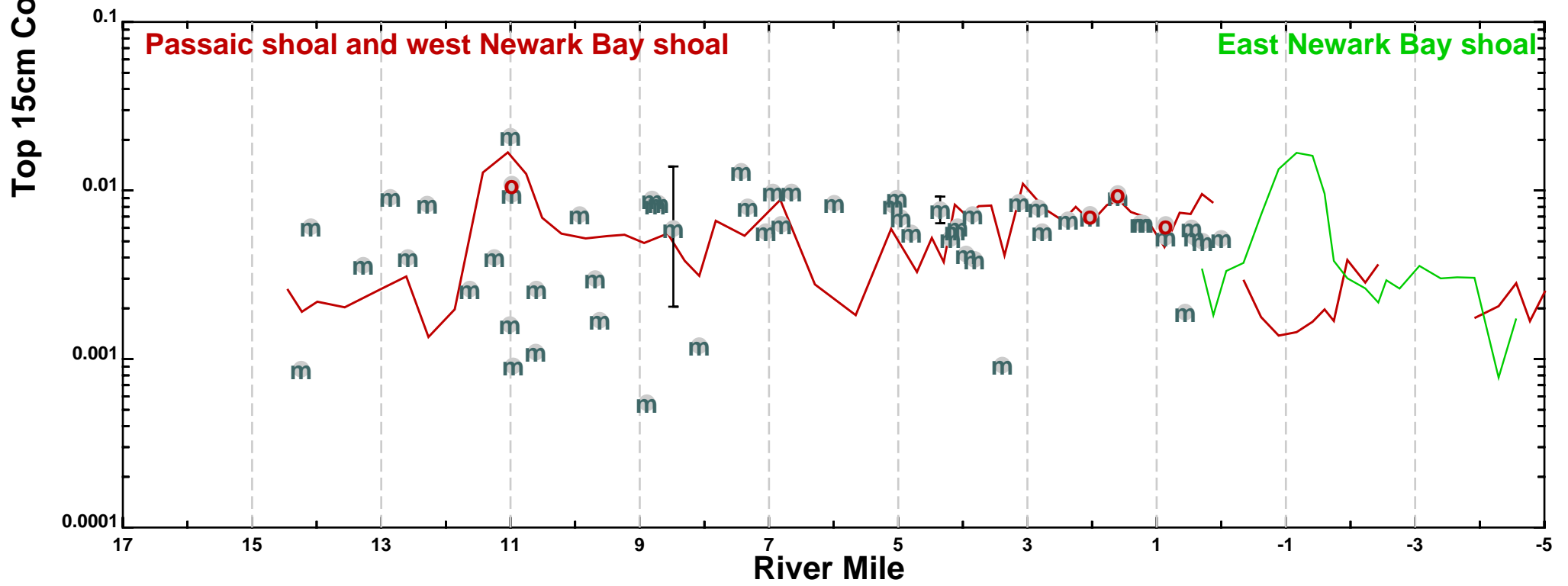
Year =2009.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



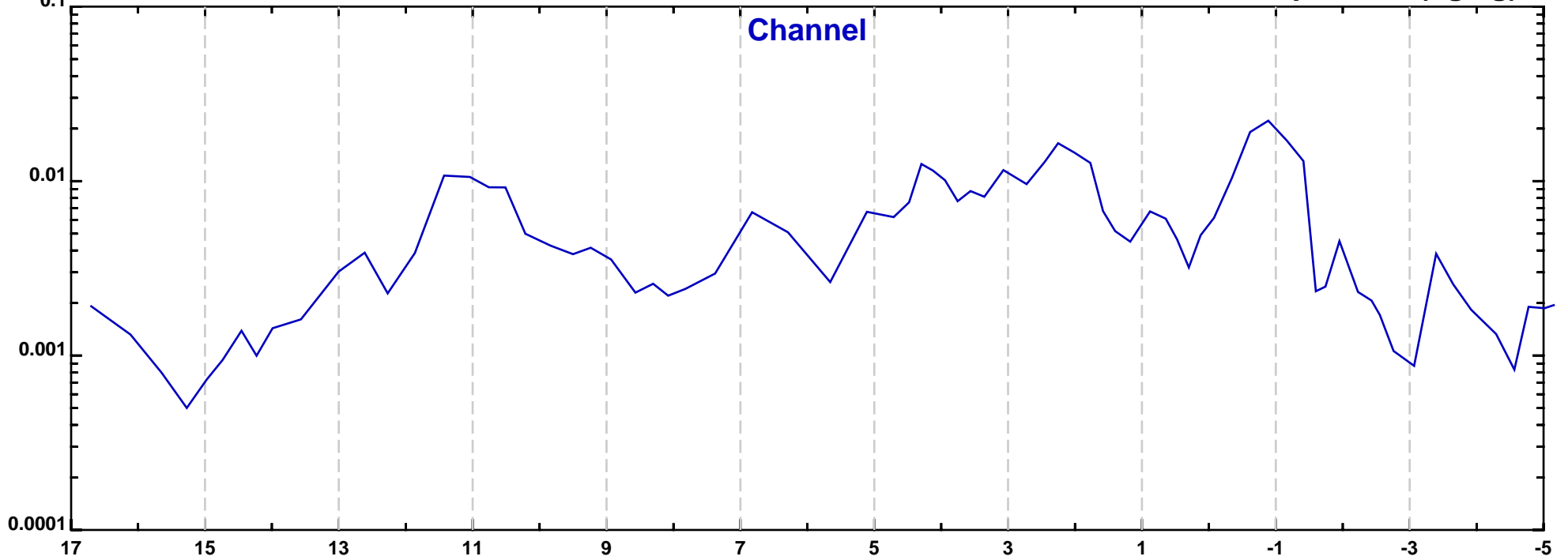


Year =2010.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

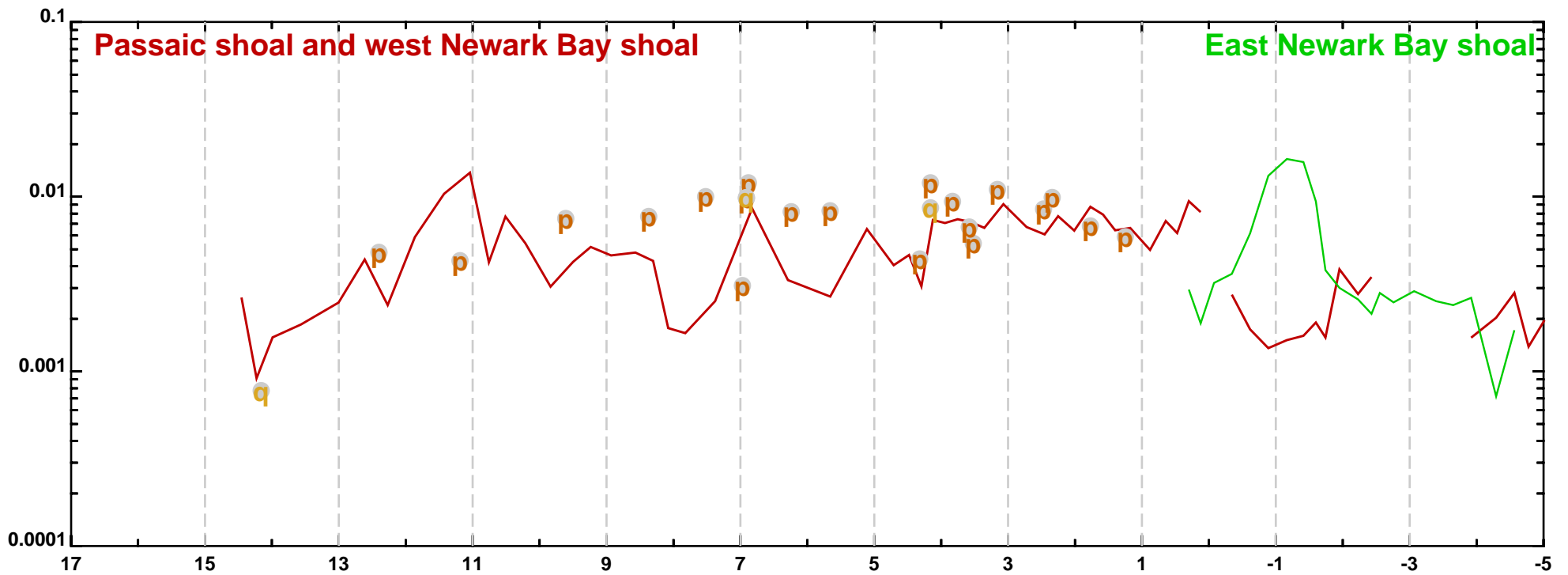
Top 15cm Conc. (ug/kg-DW)

Channel

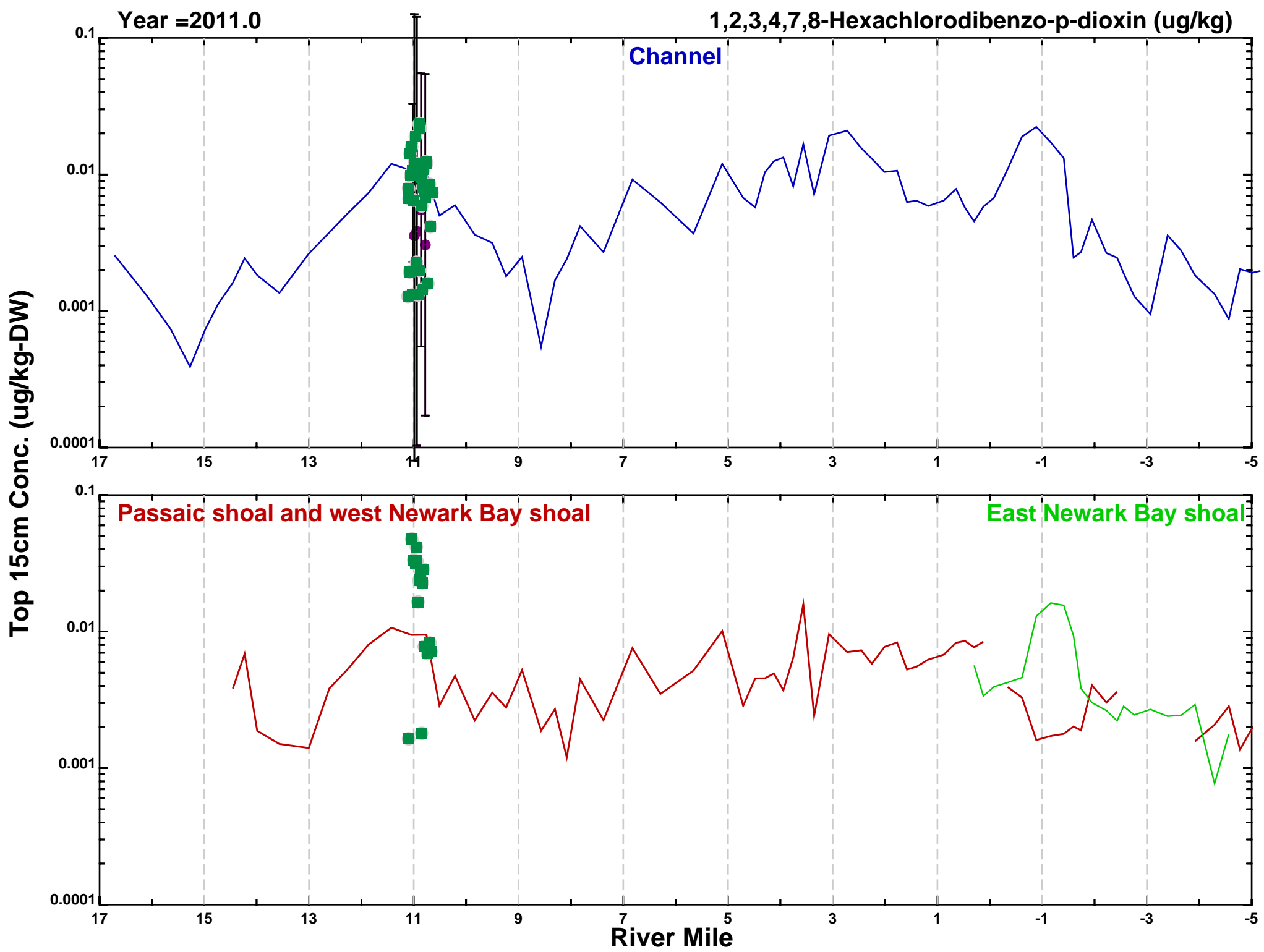


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

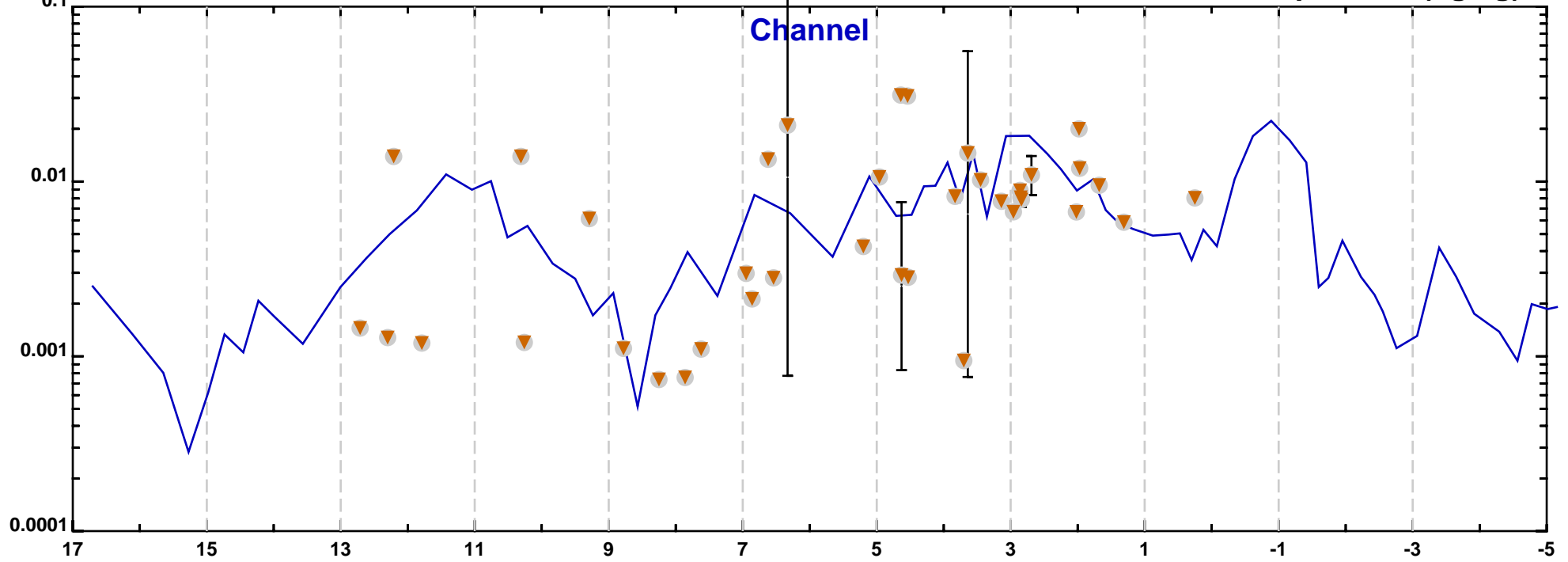


Year =2012.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

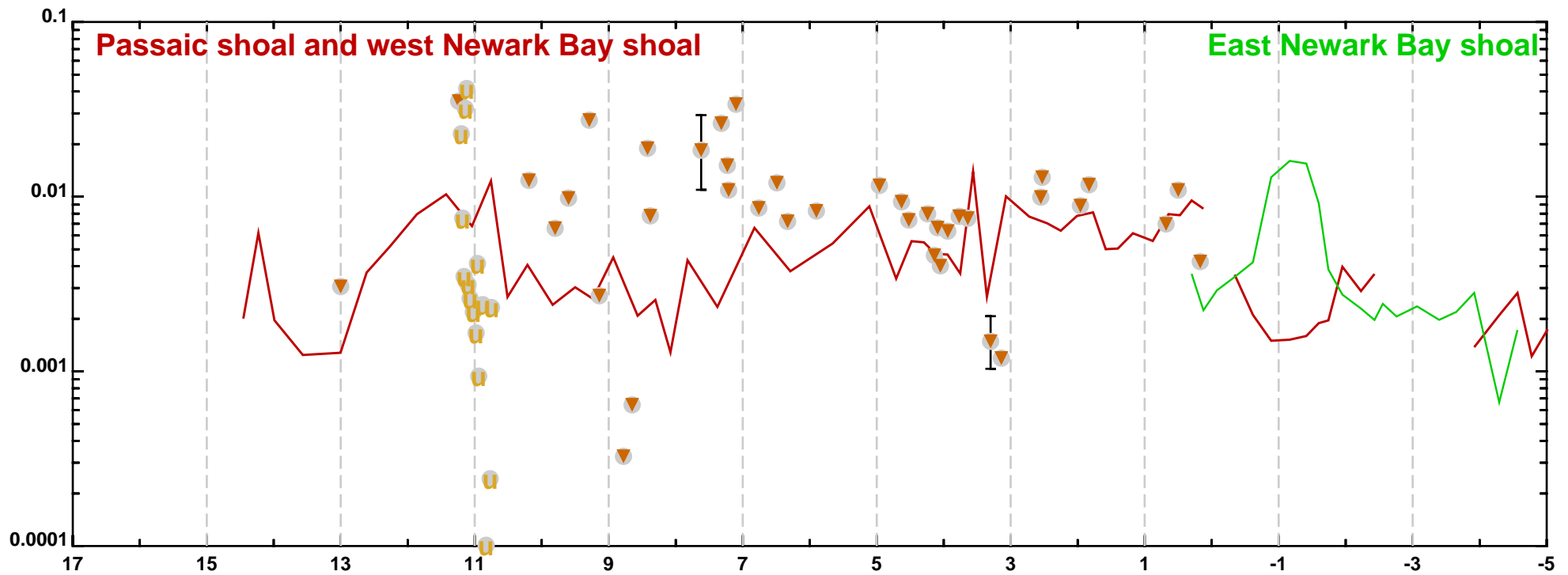
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

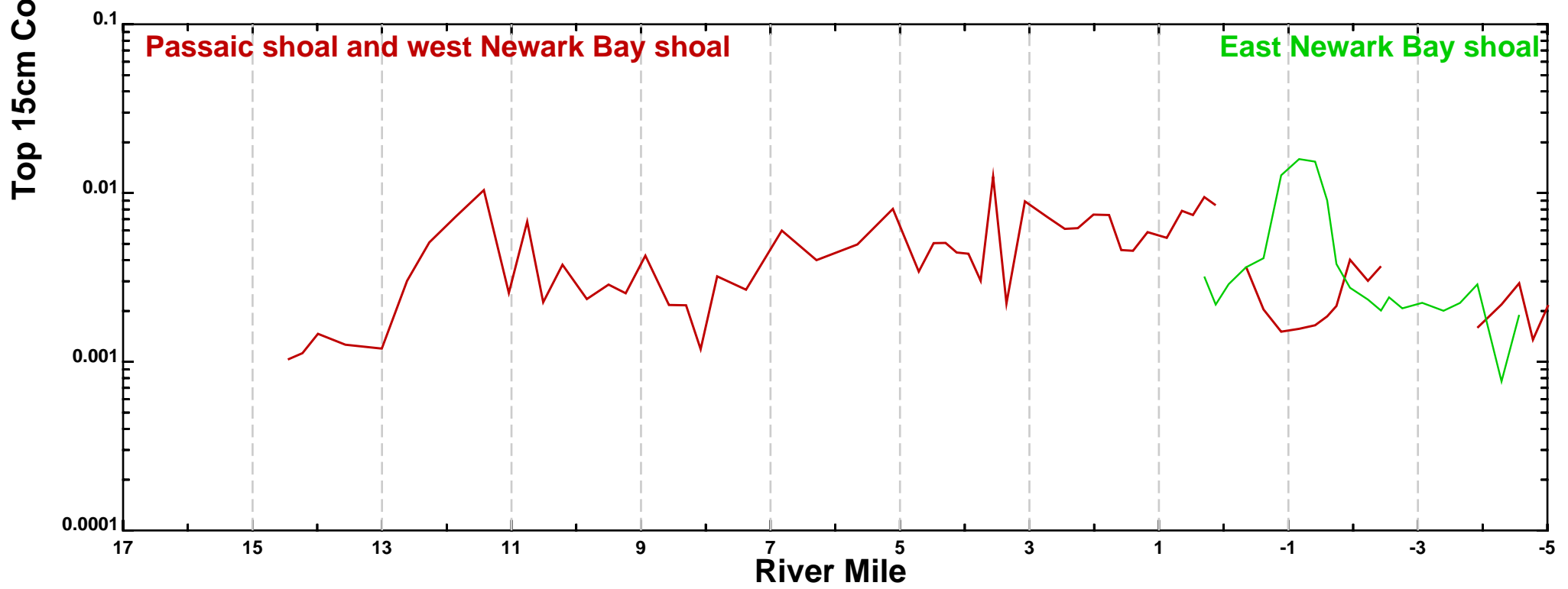
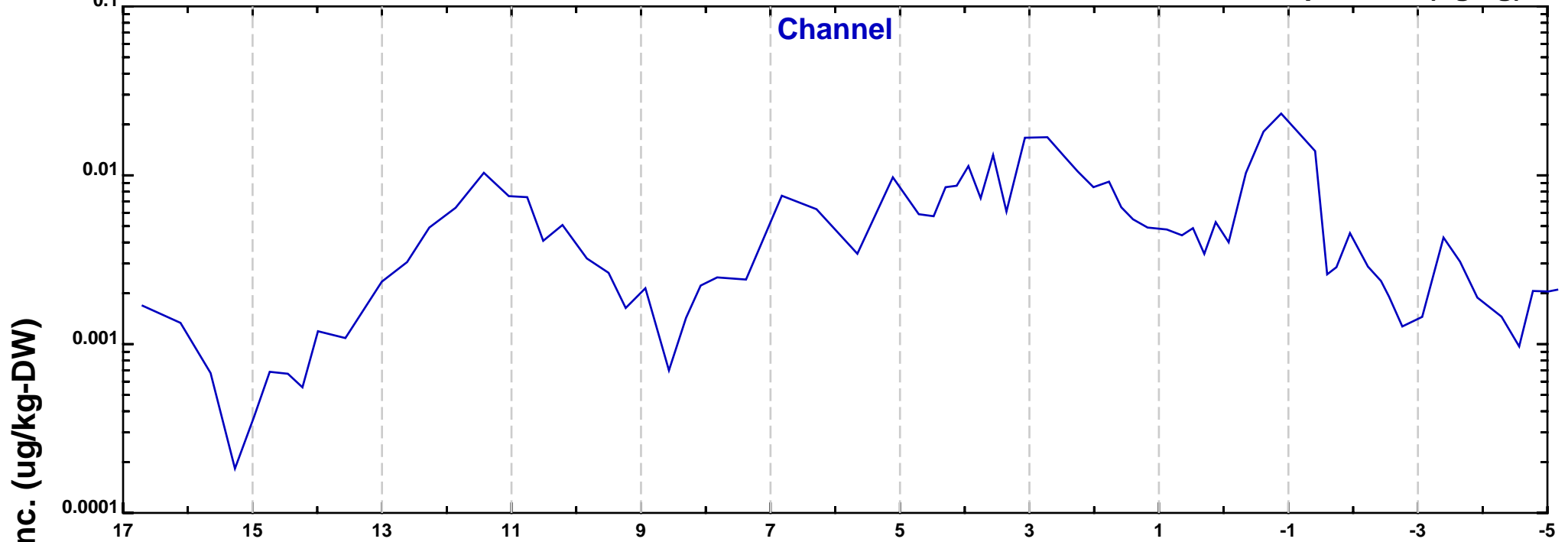
East Newark Bay shoal



River Mile

Year =2013.0

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

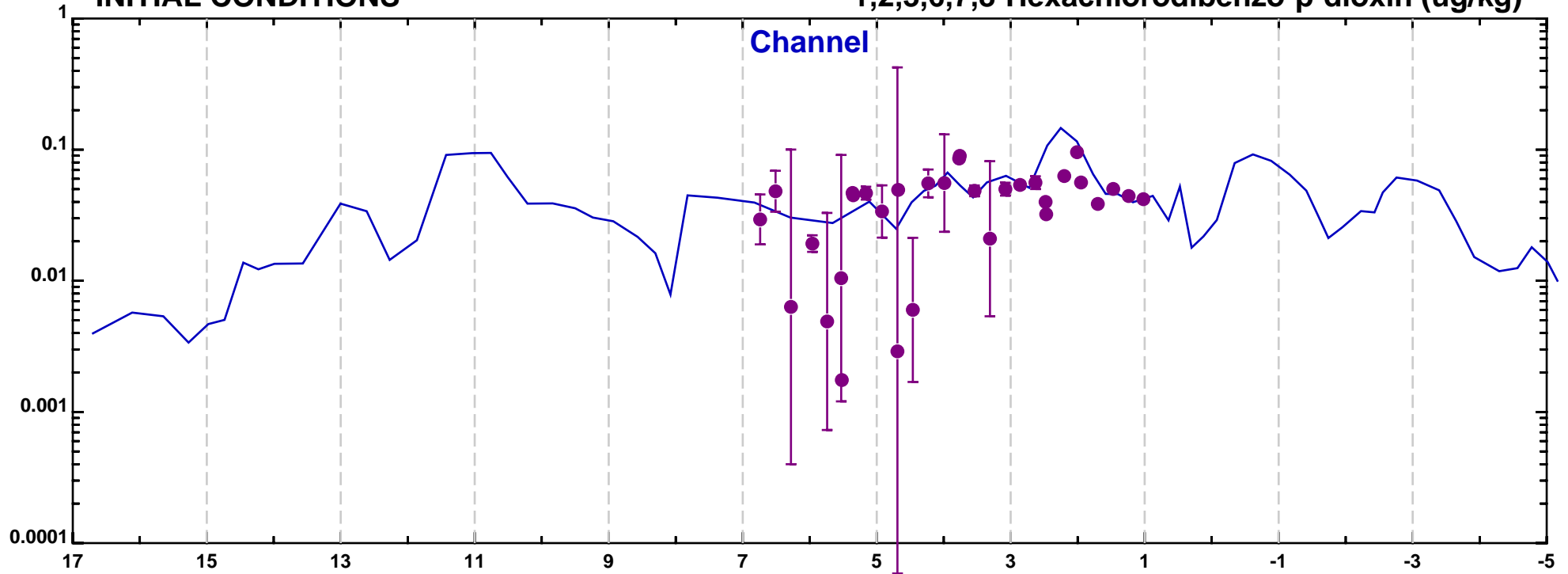


**INITIAL CONDITIONS**

**1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)**

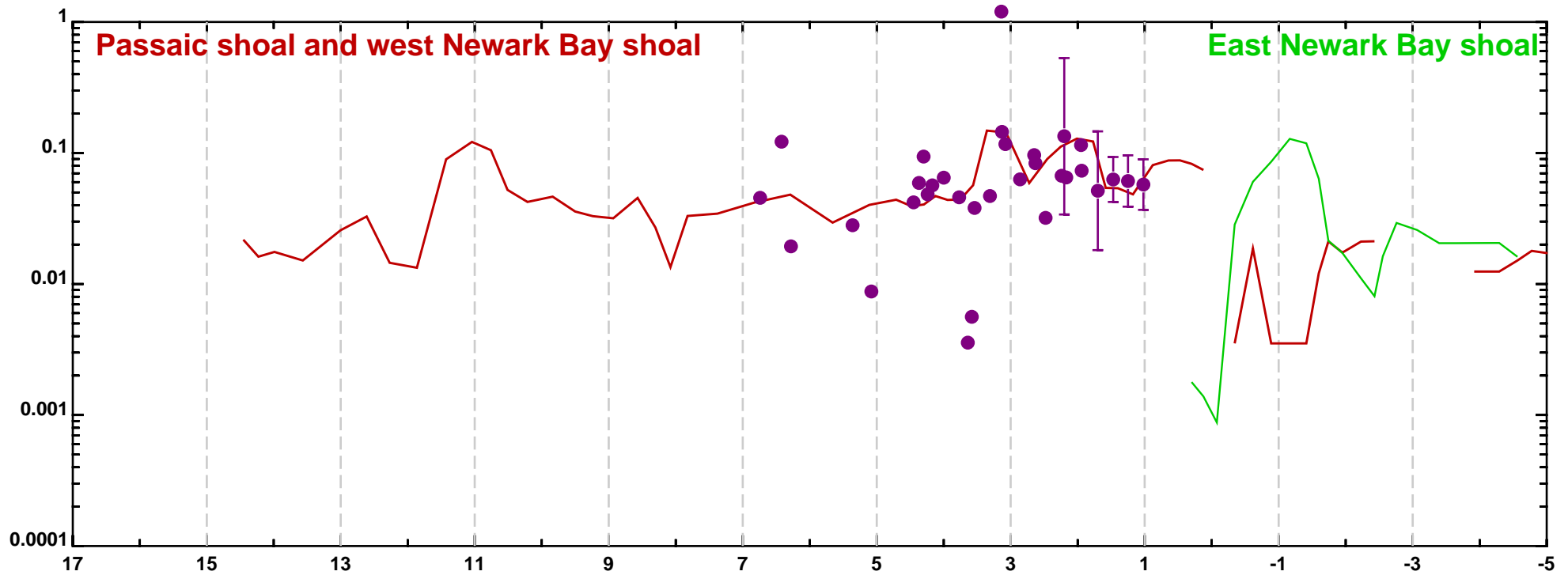
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



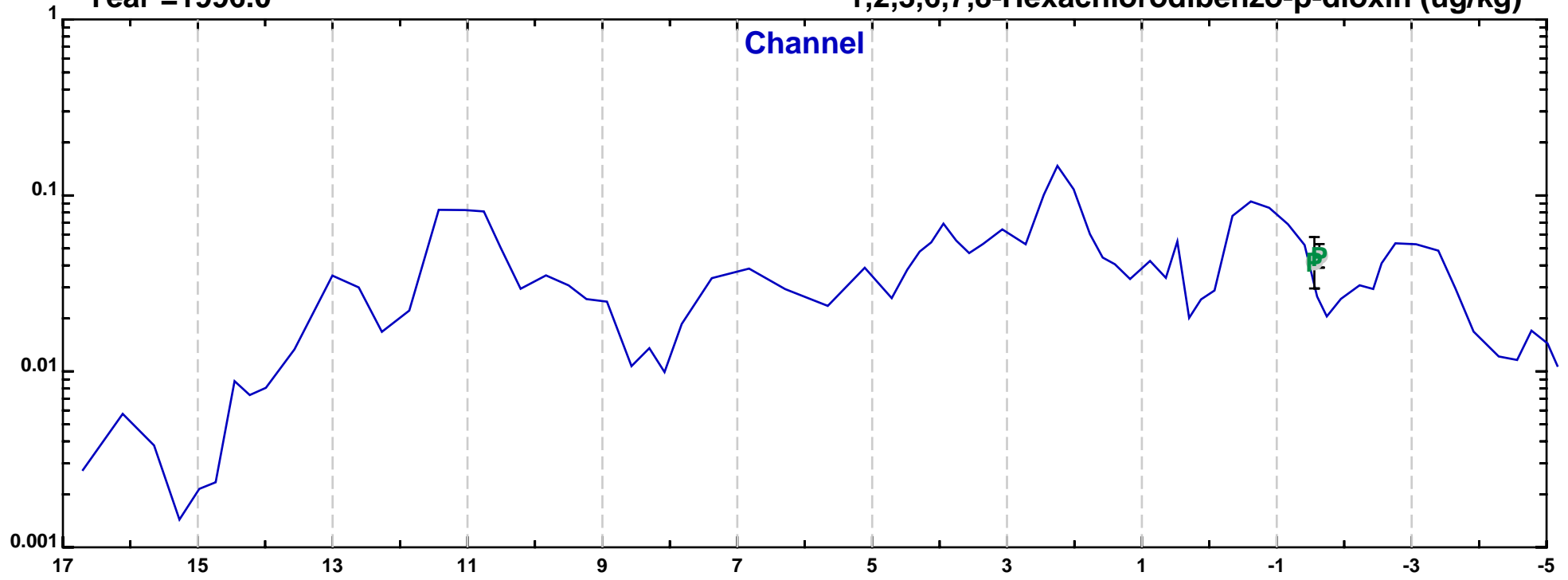
**River Mile**

Year =1996.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

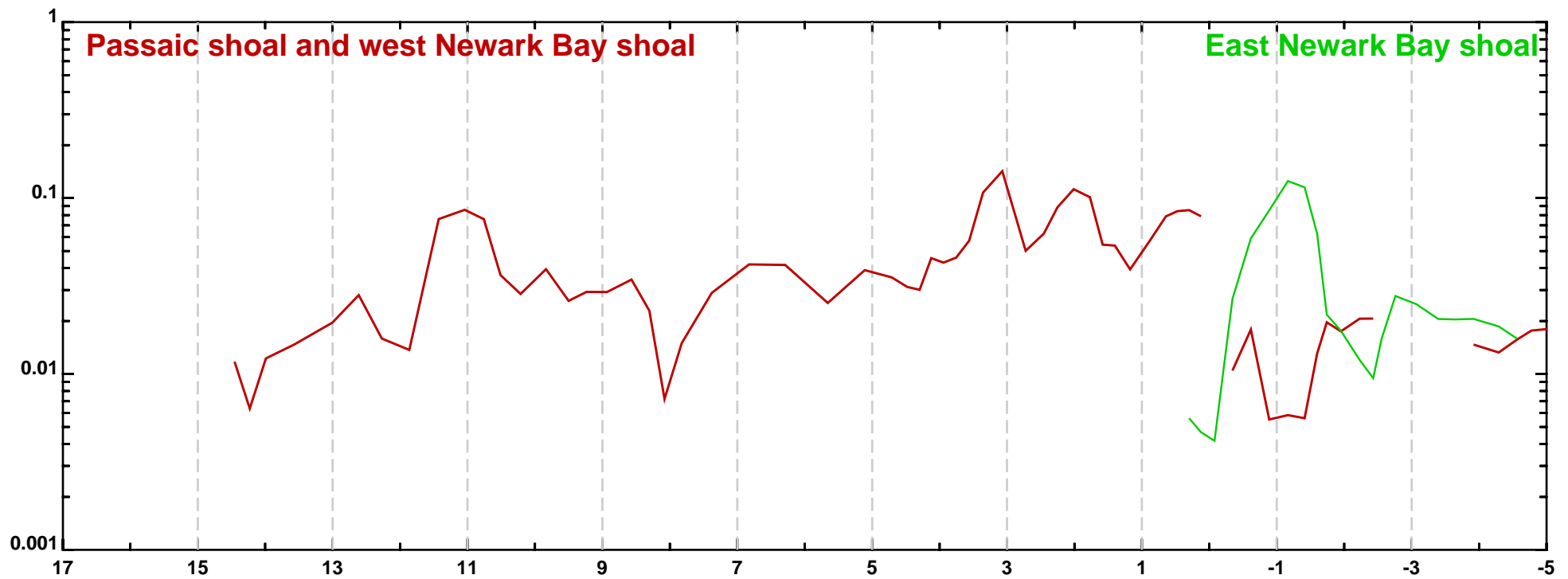
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



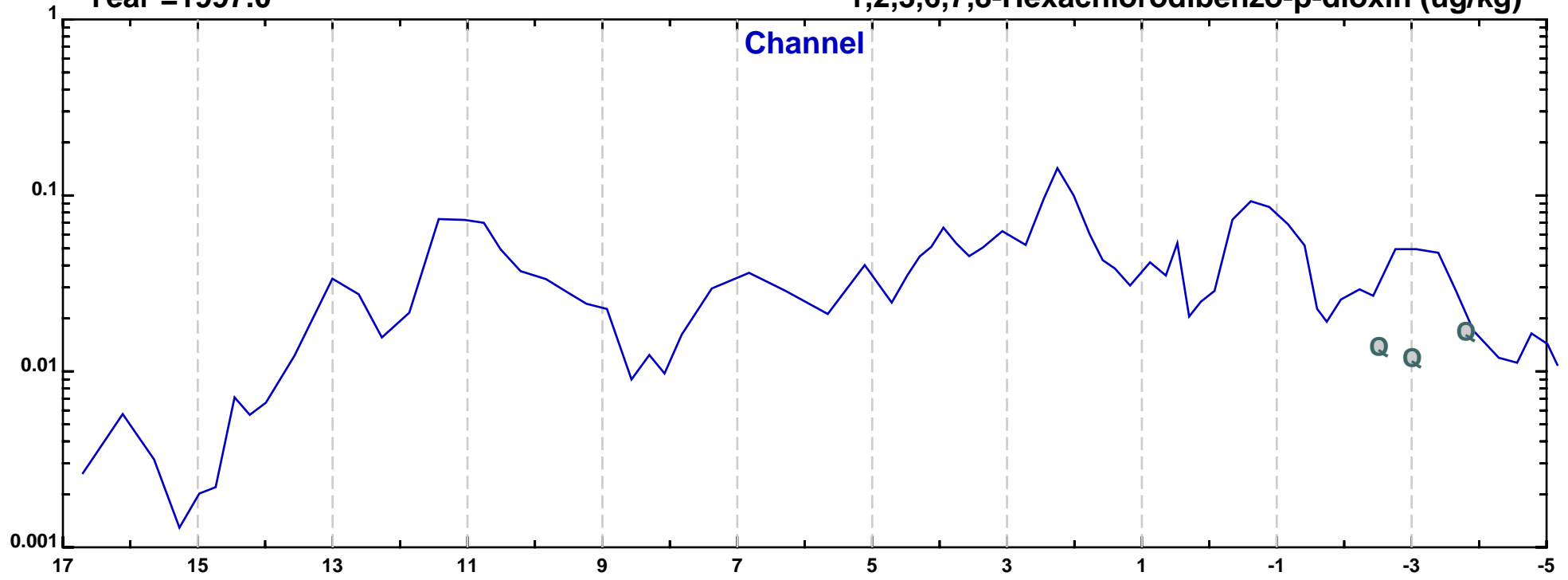
River Mile

Year =1997.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

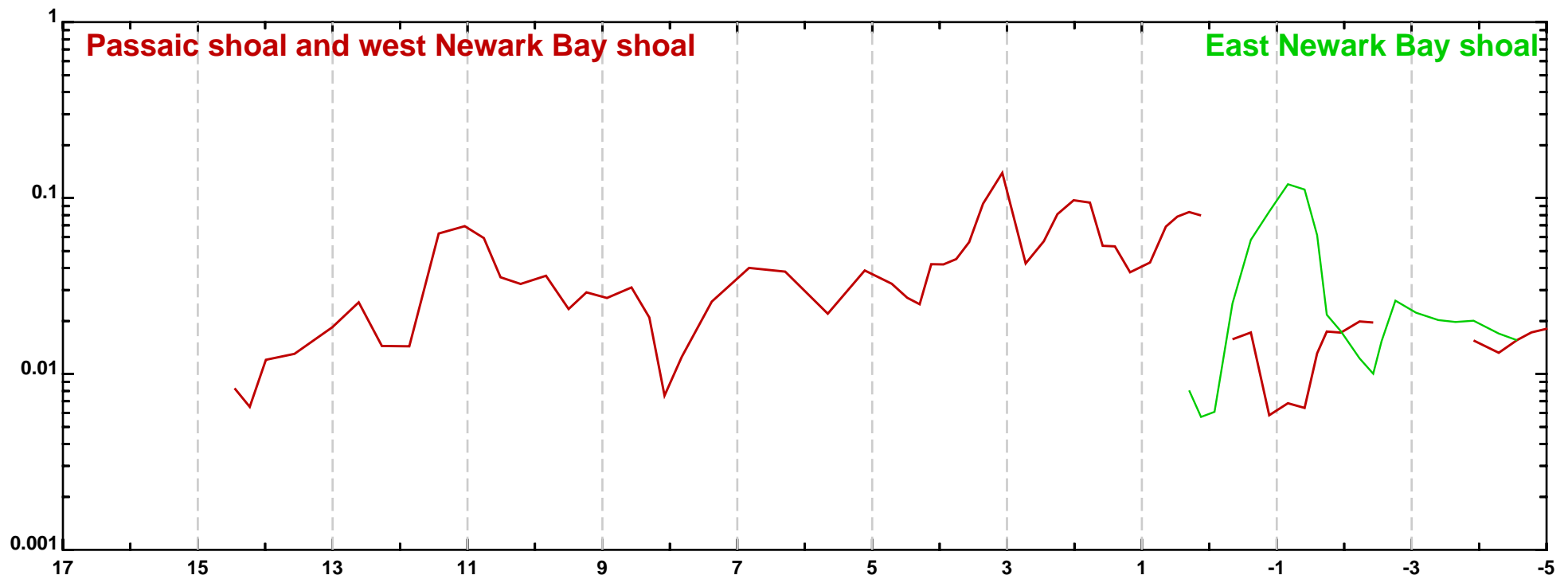
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



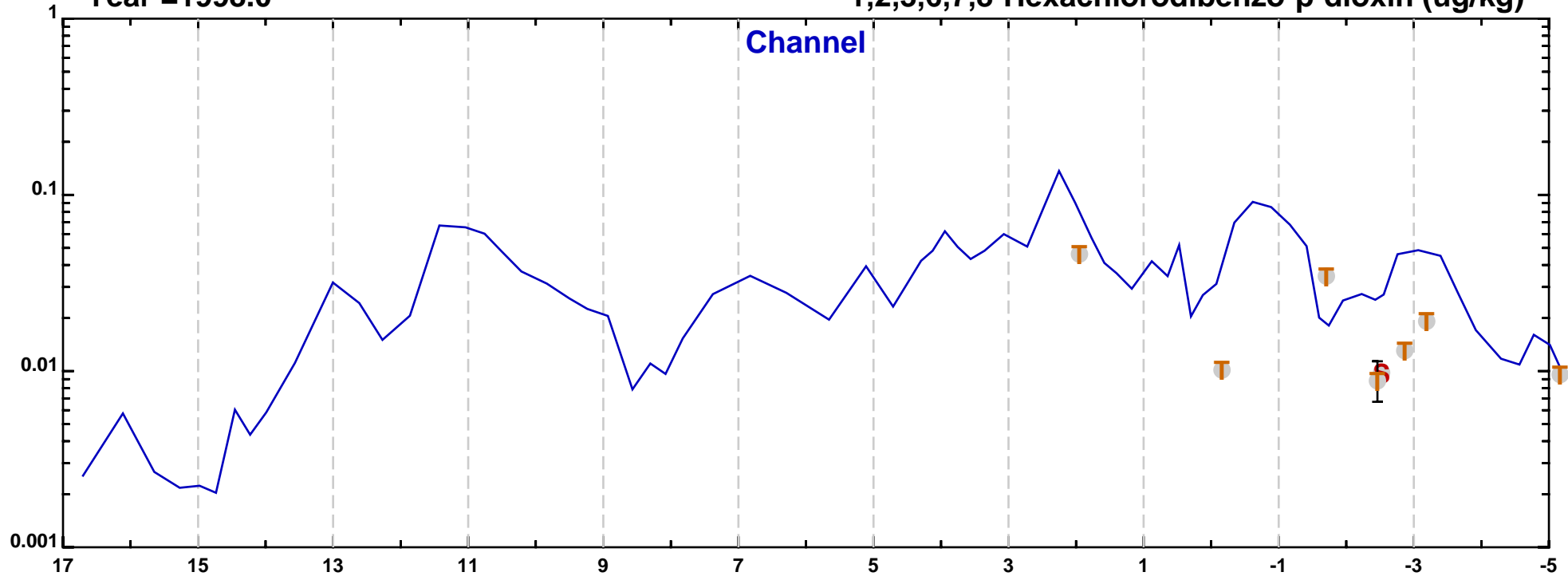
River Mile

Year =1998.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

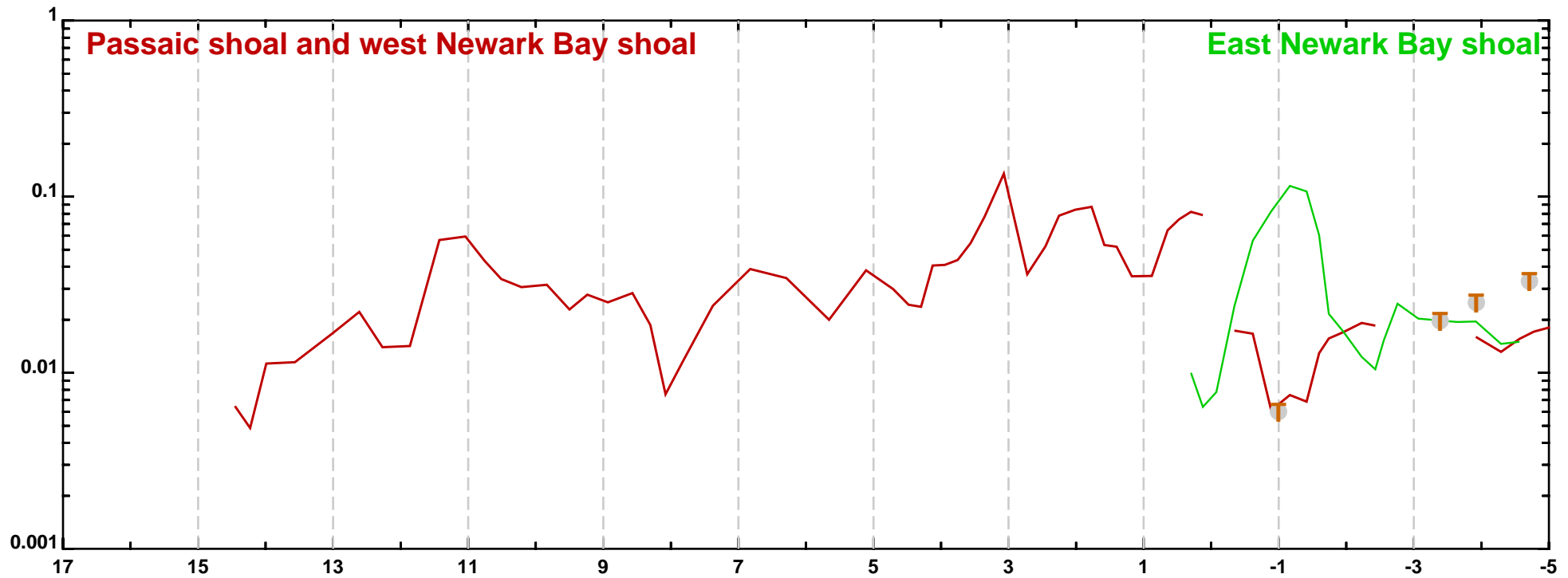
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



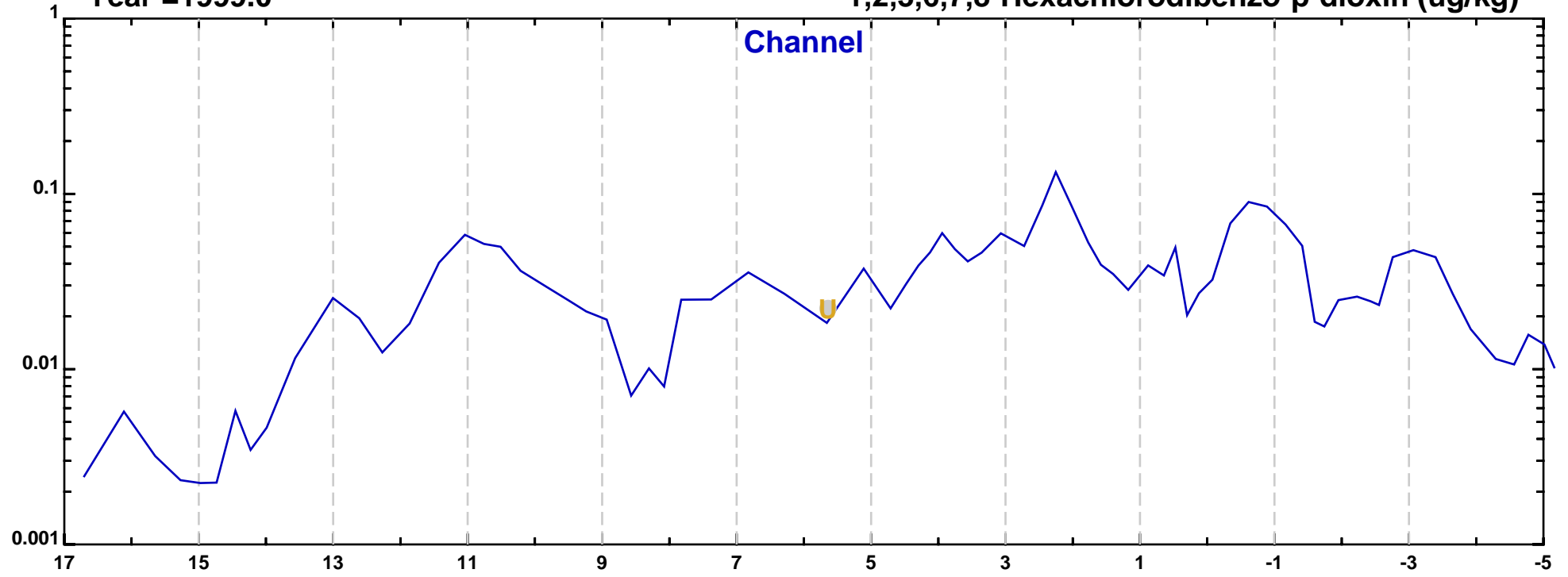
River Mile



Year = 1999.0

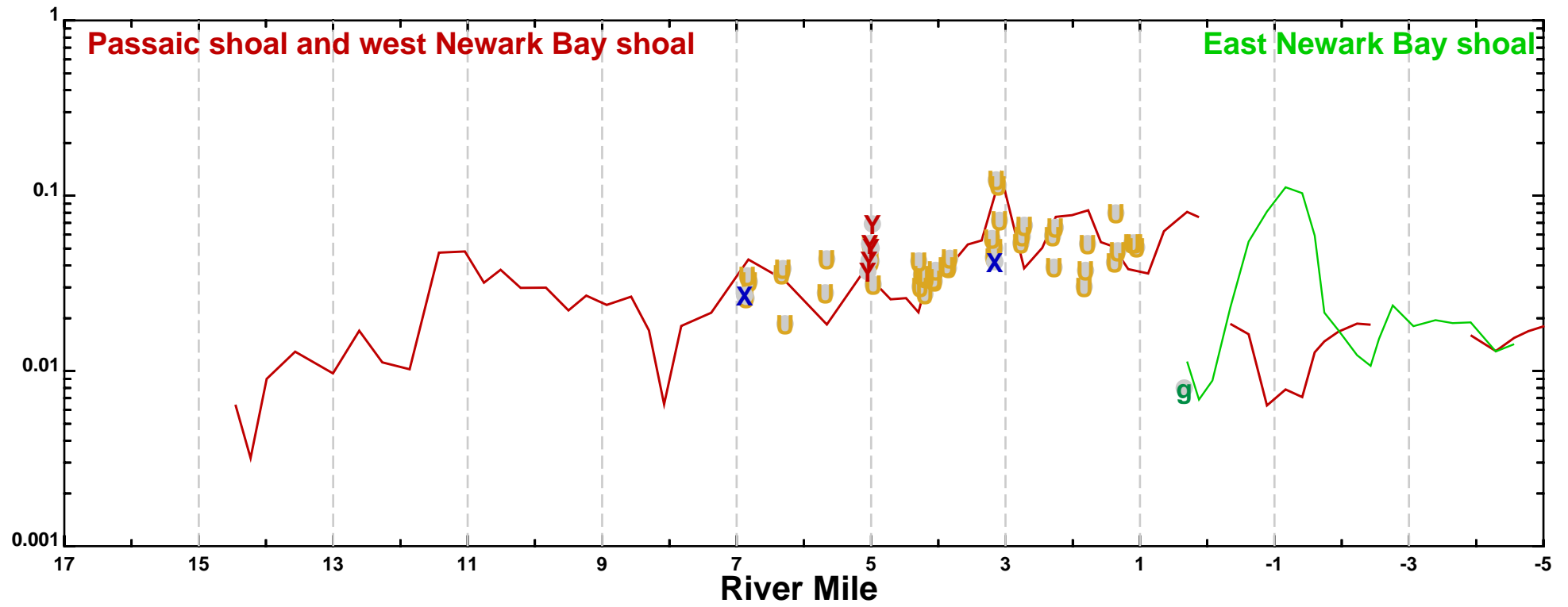
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

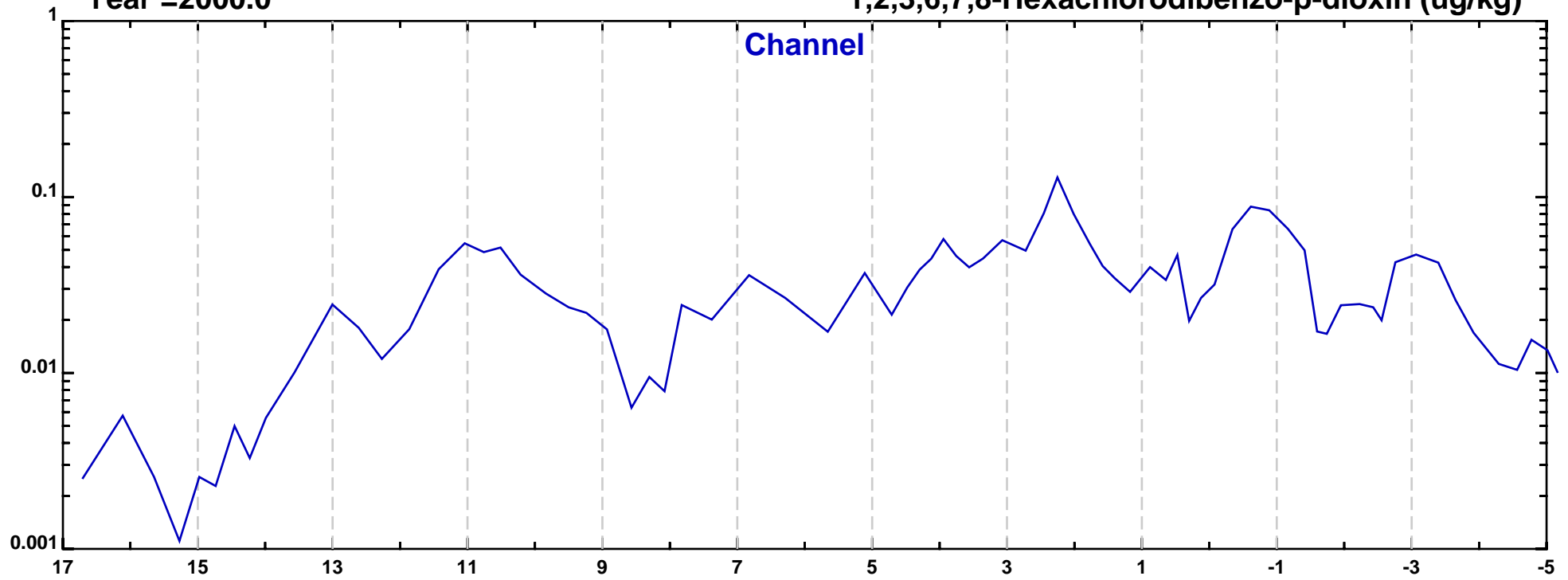


Year =2000.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

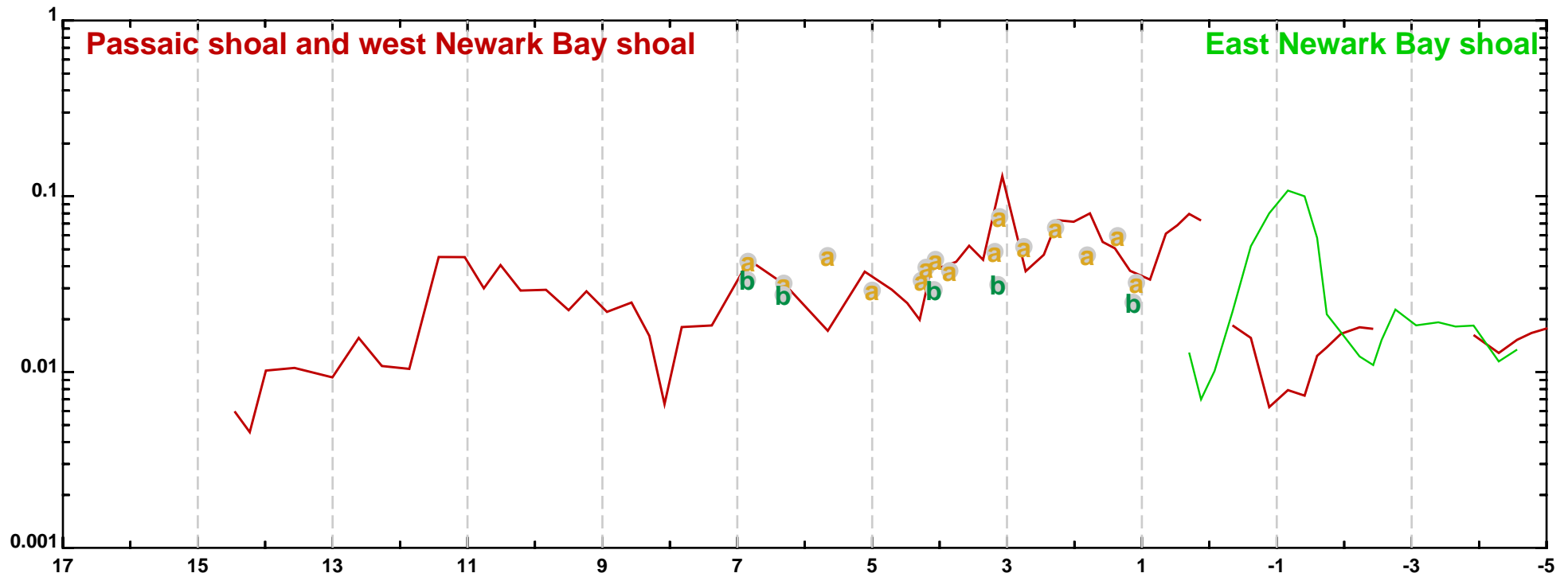
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



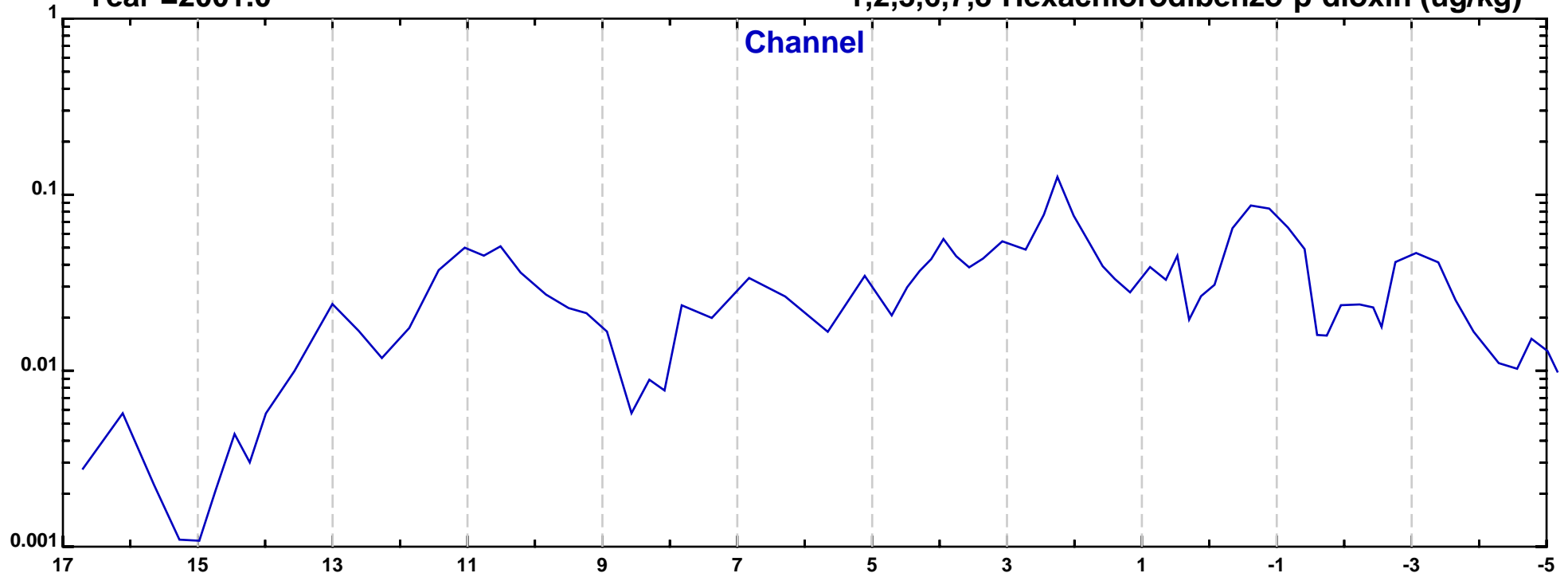
River Mile

Year =2001.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

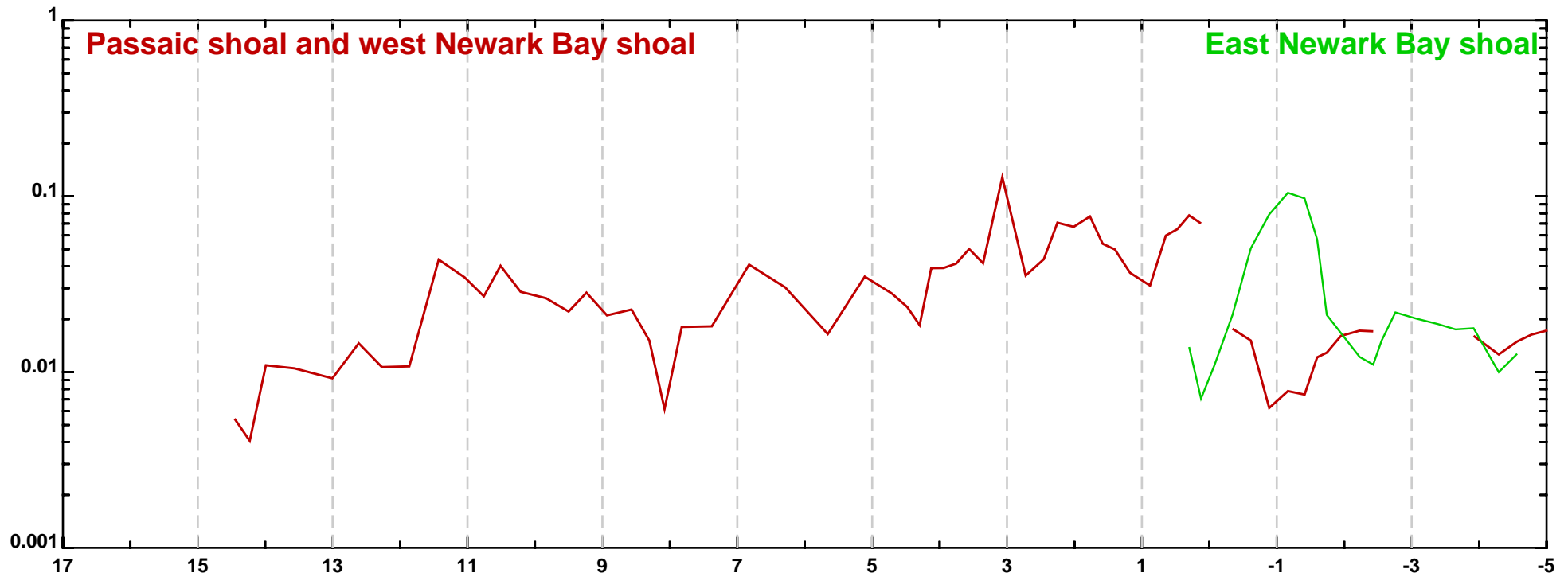
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



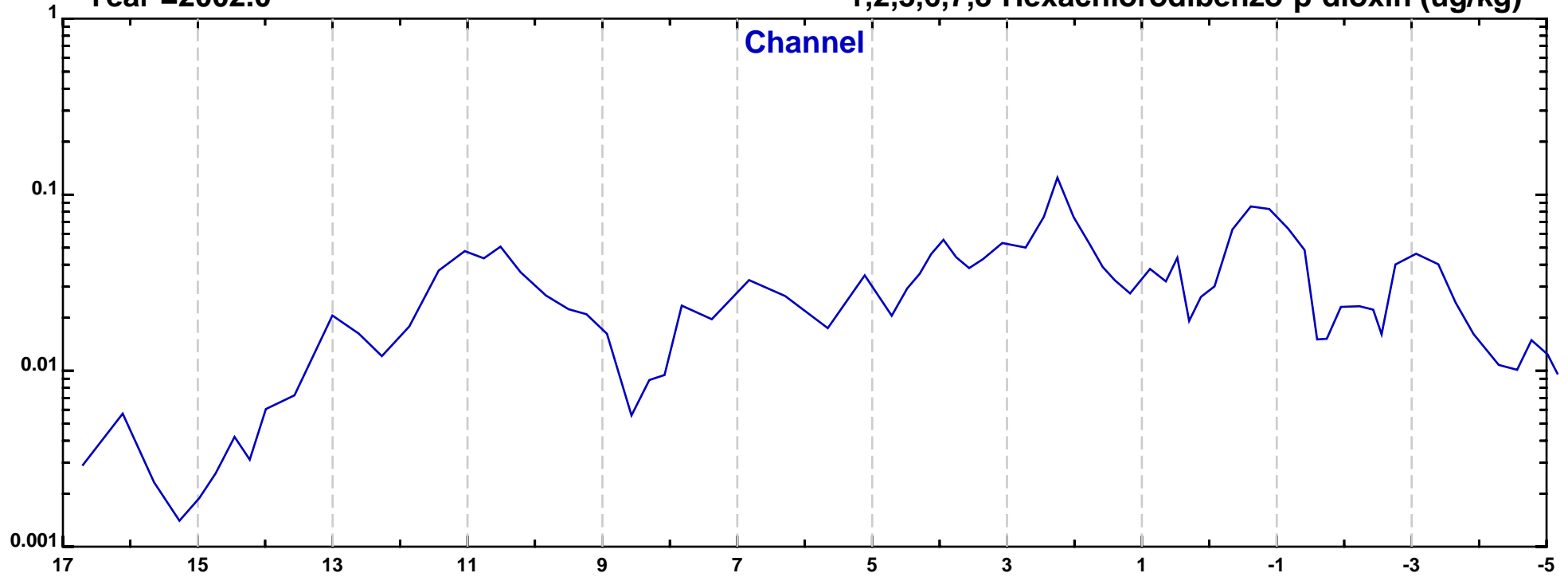
River Mile

Year =2002.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

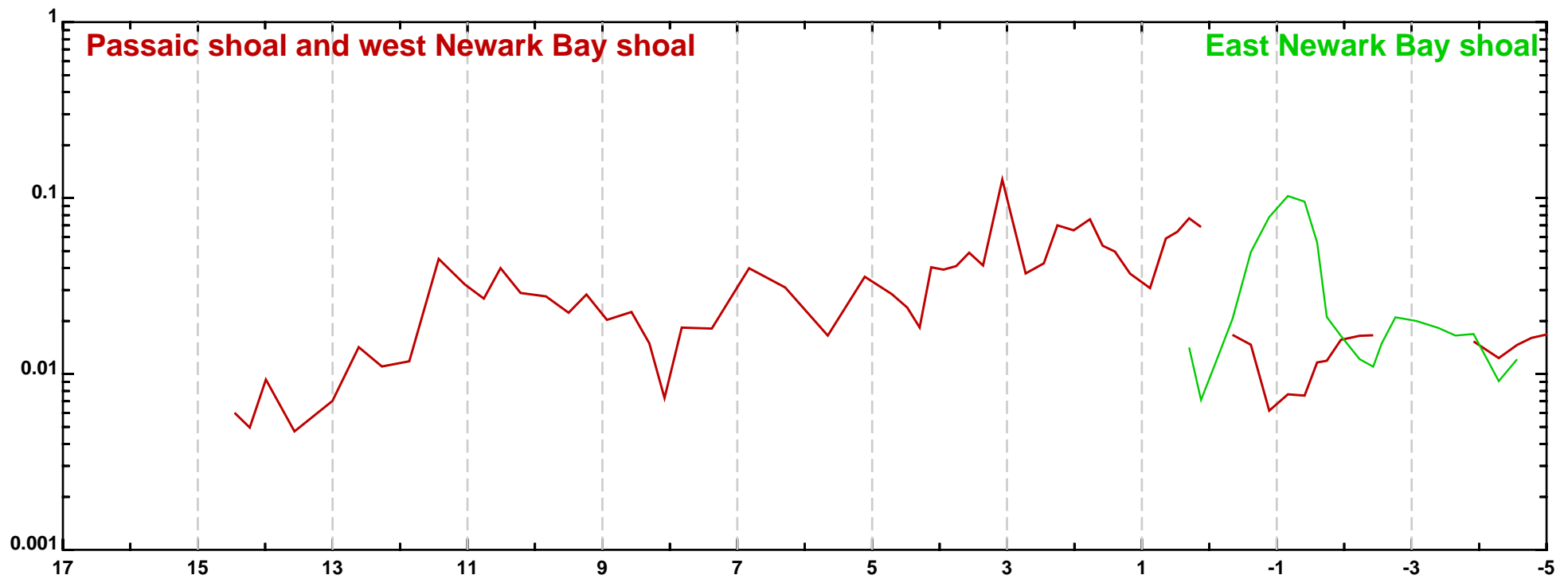
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

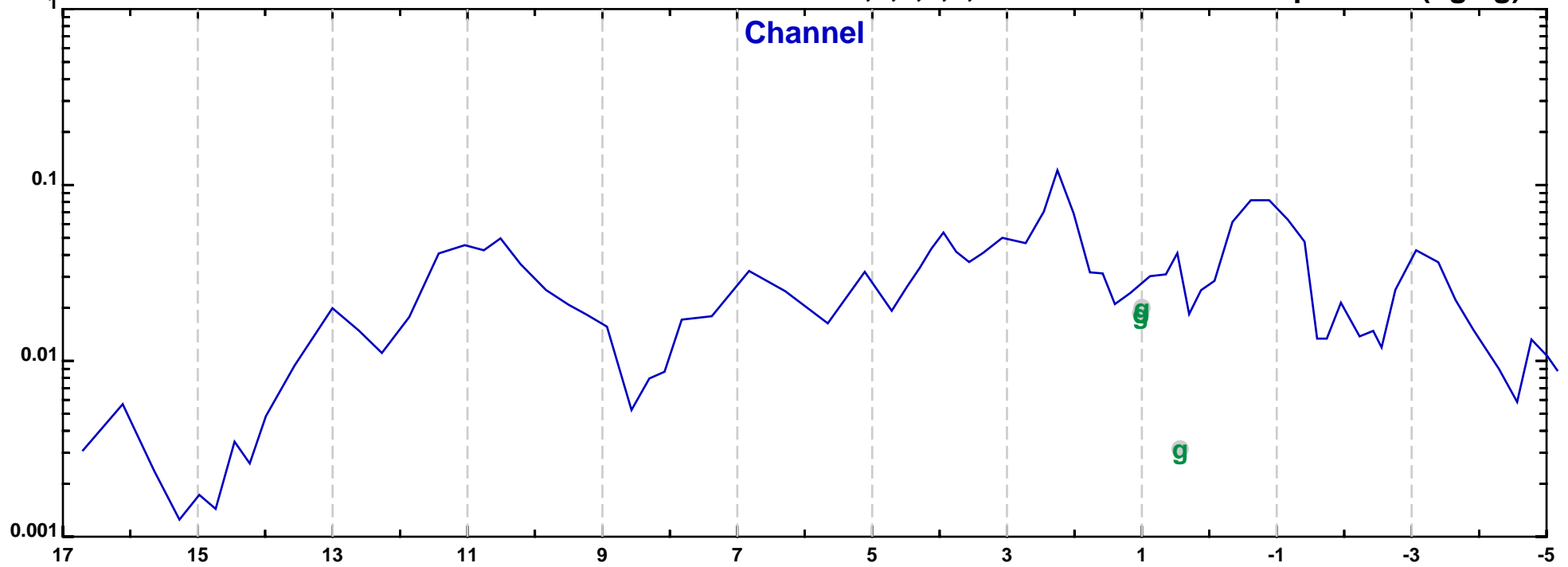


River Mile

Year =2003.0

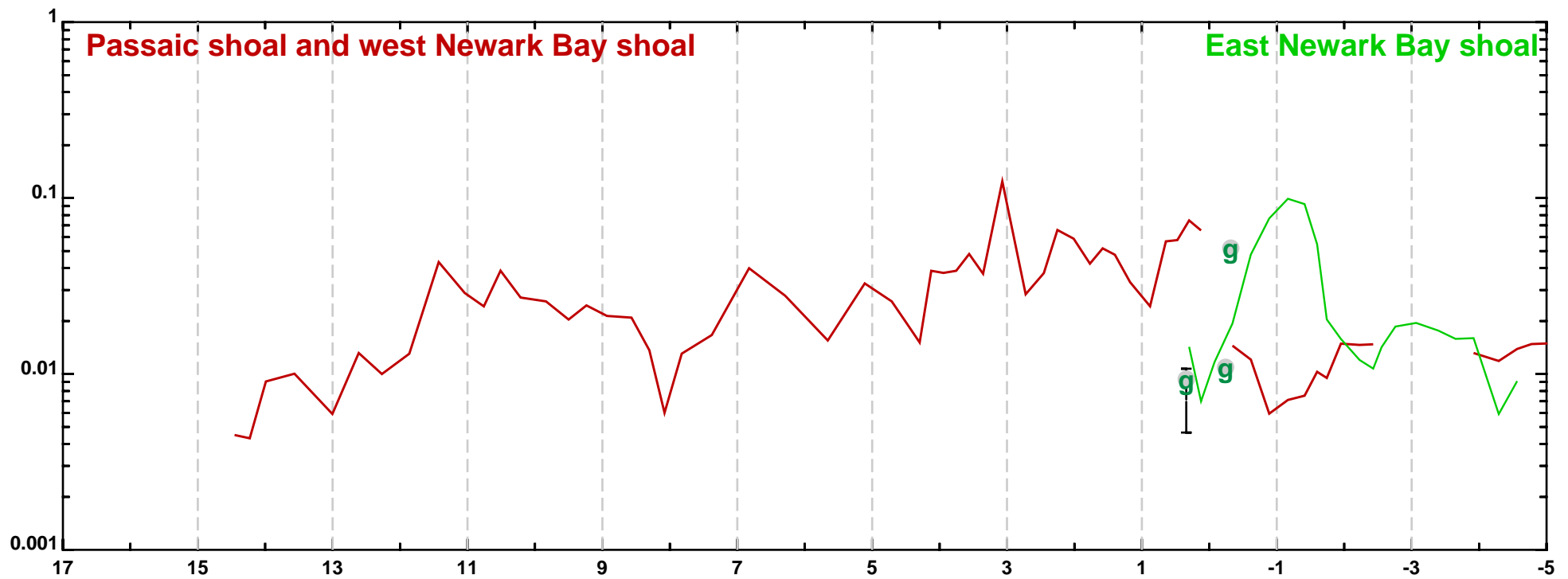
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



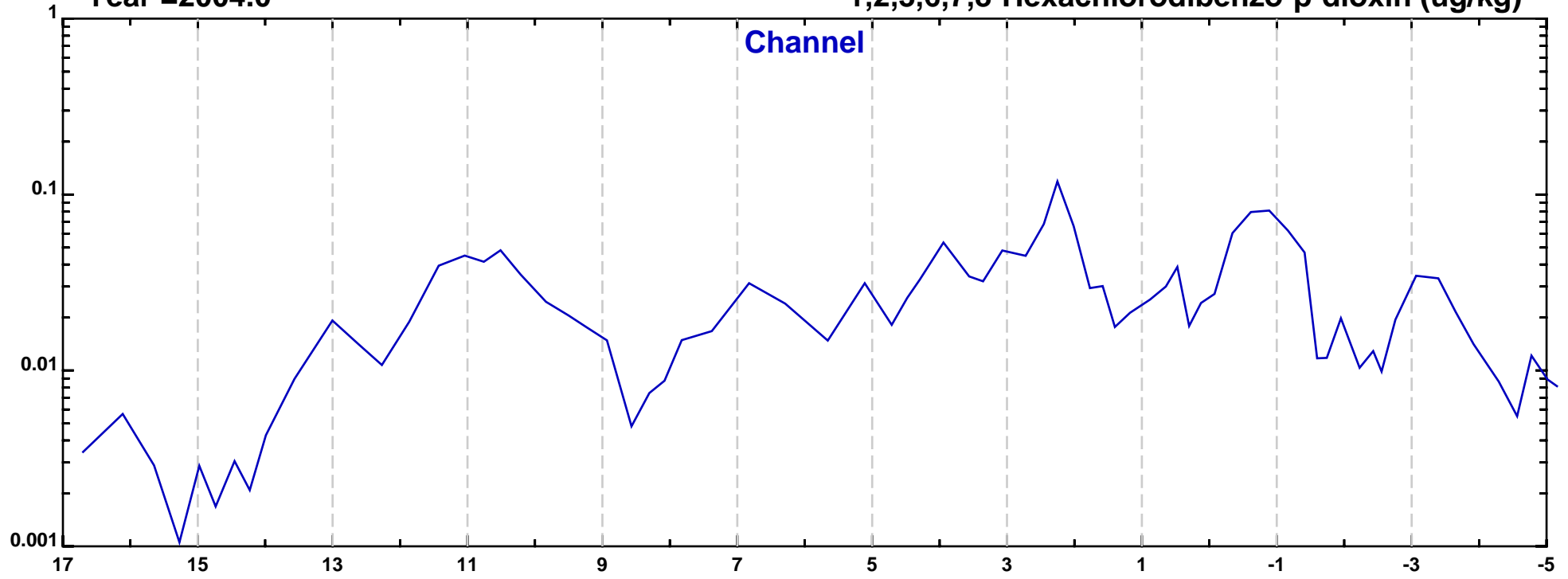
River Mile

Year =2004.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

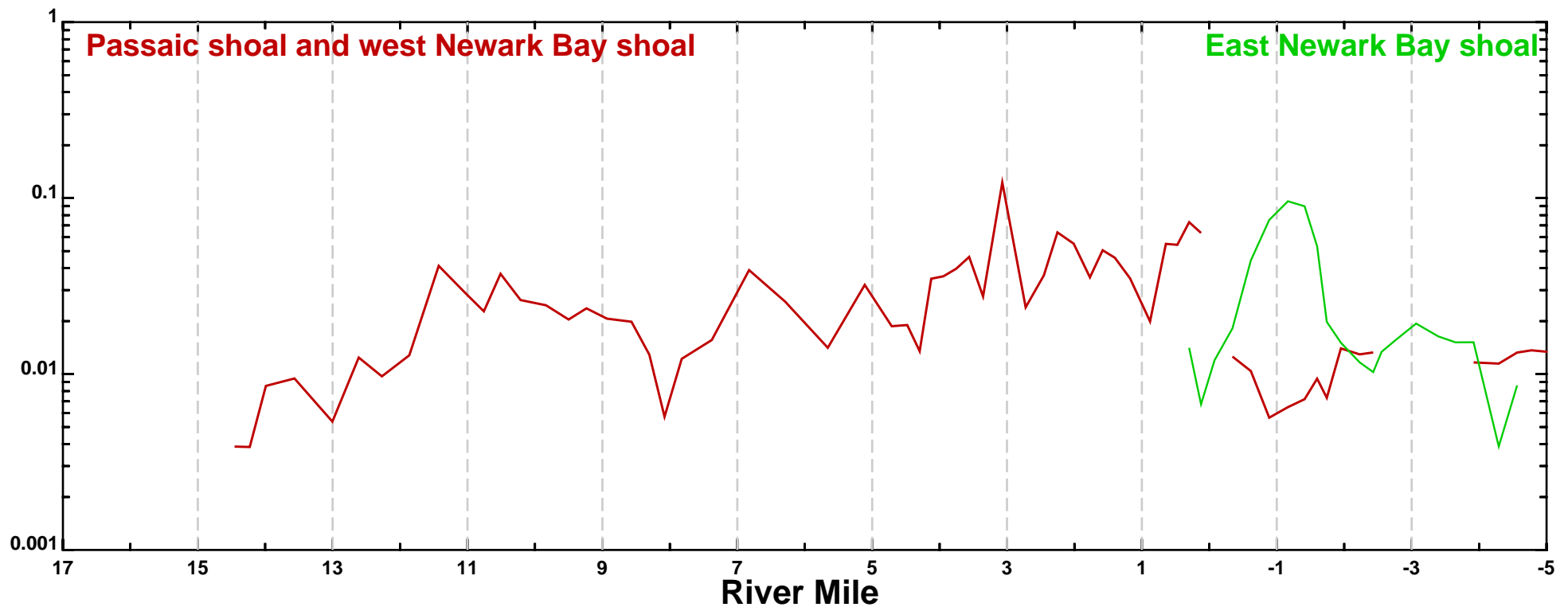
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

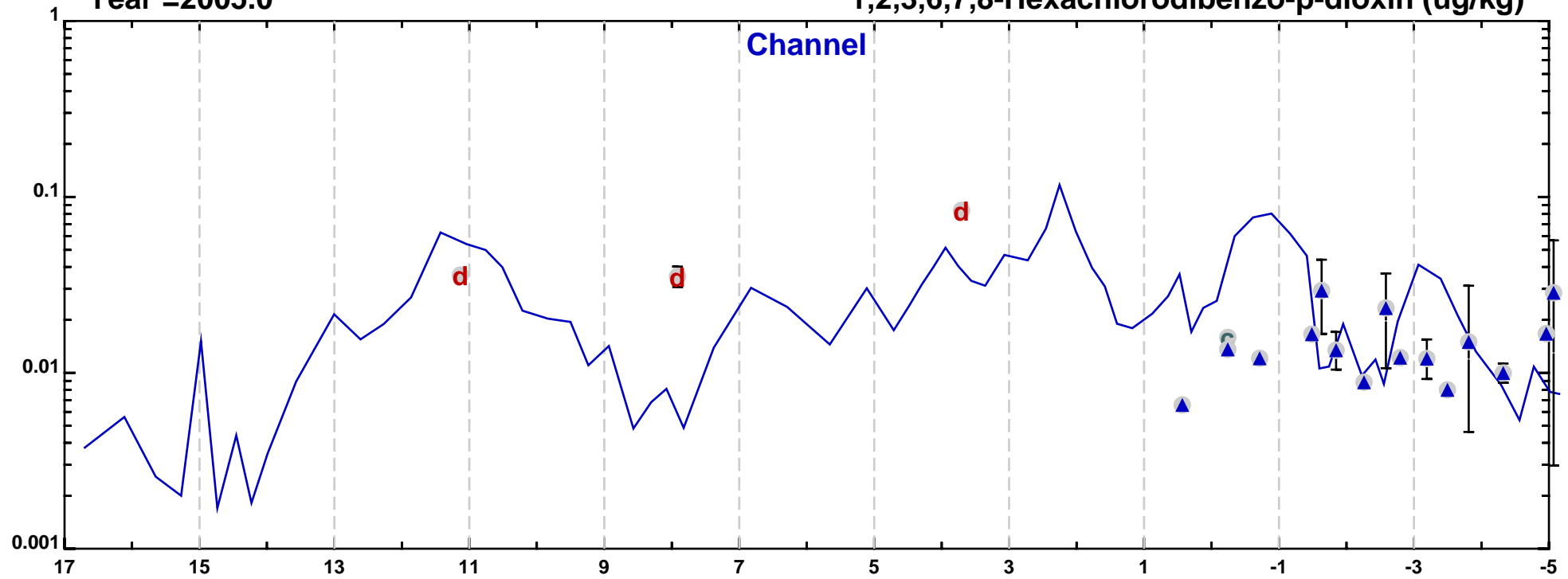
East Newark Bay shoal



Year =2005.0

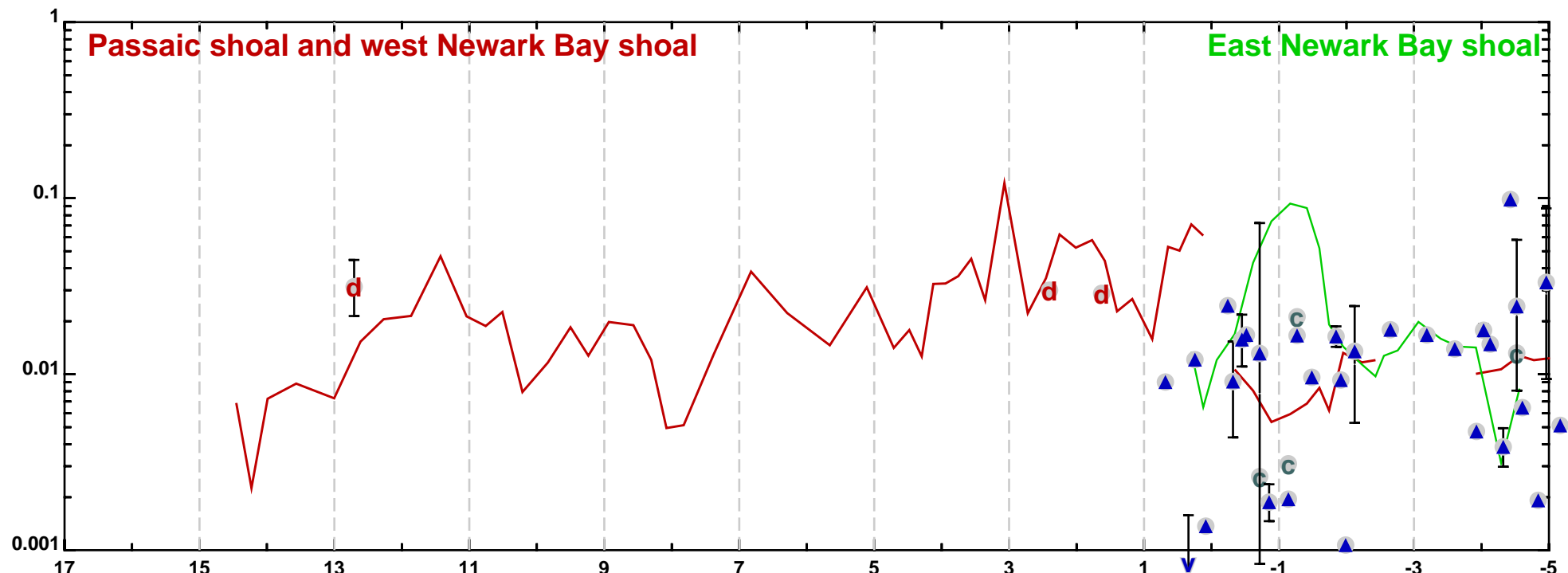
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

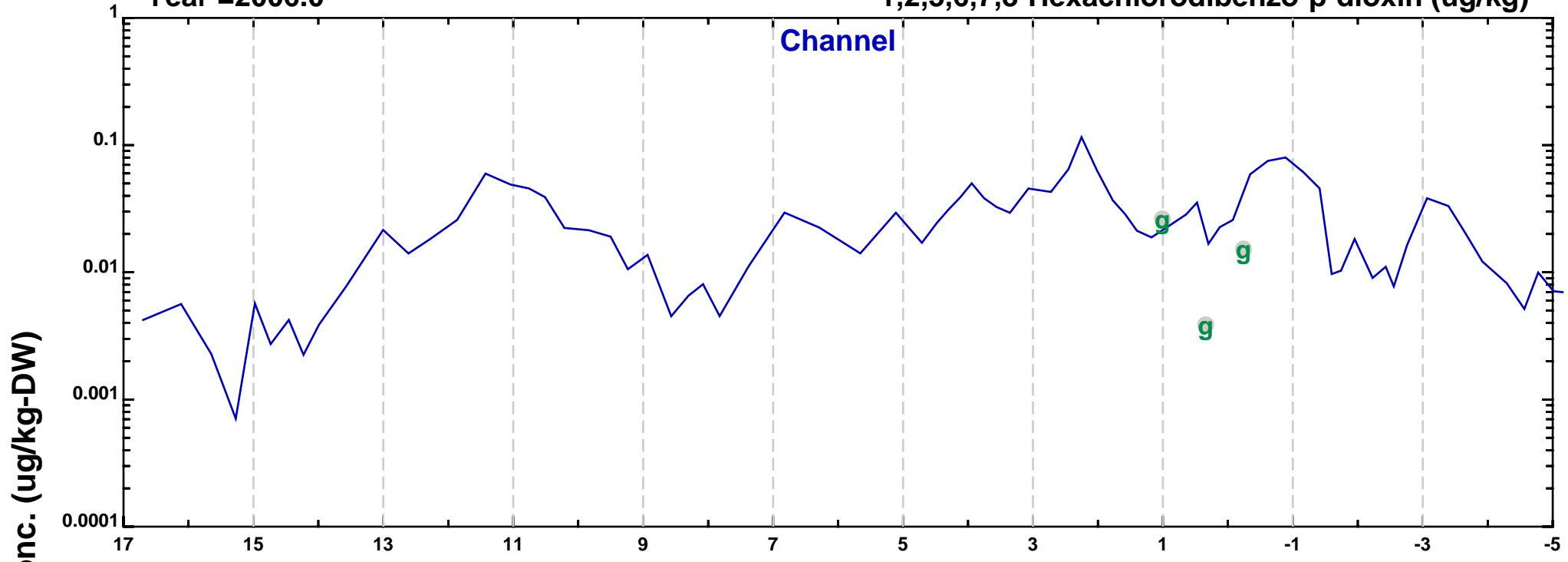
East Newark Bay shoal



River Mile

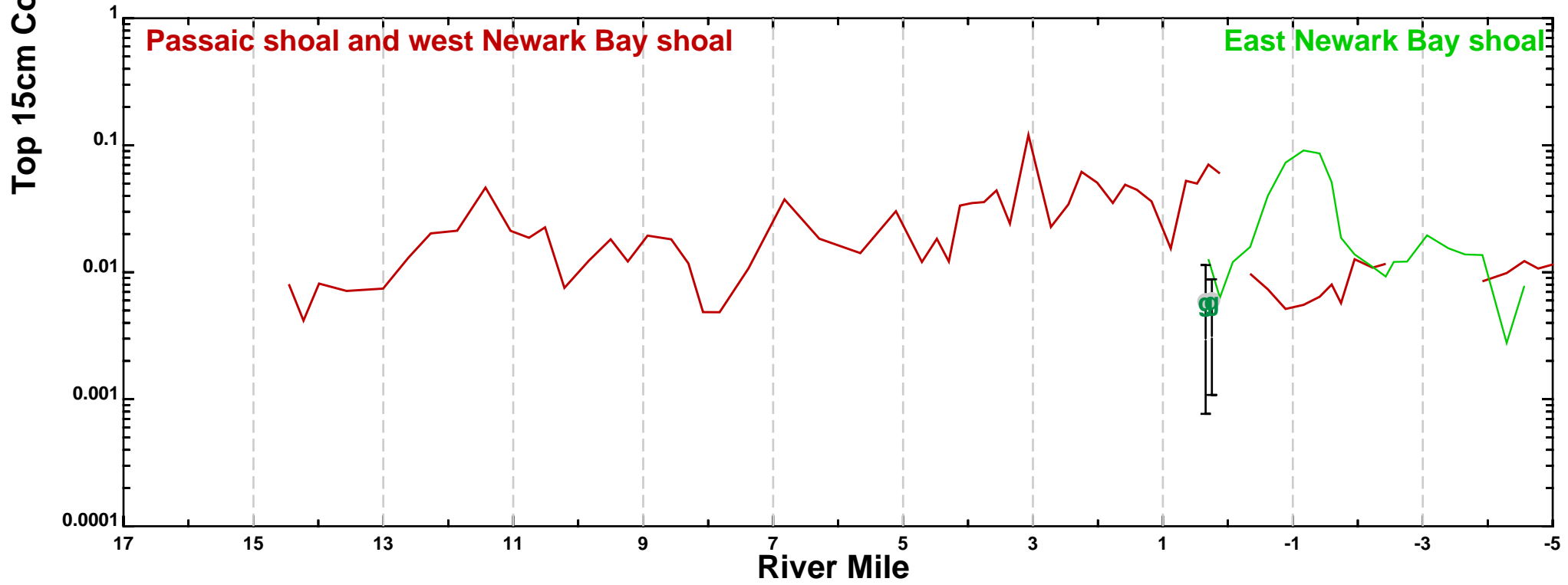
Year =2006.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



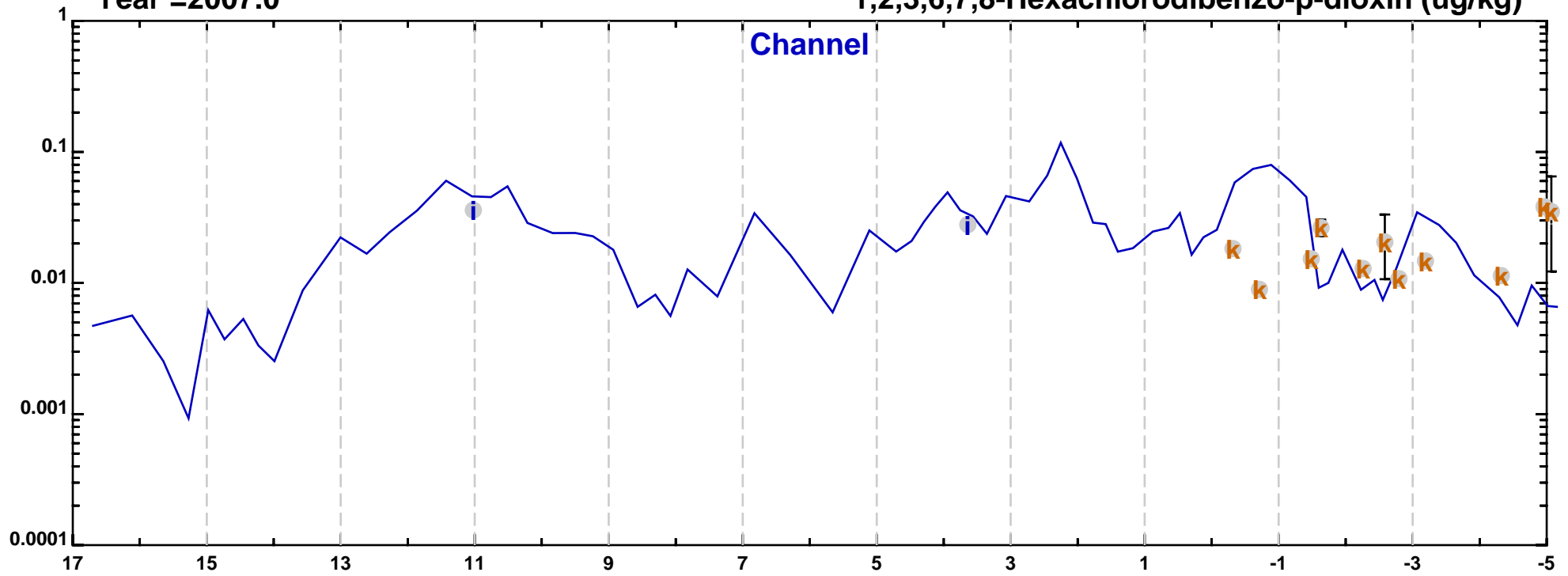


Year =2007.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

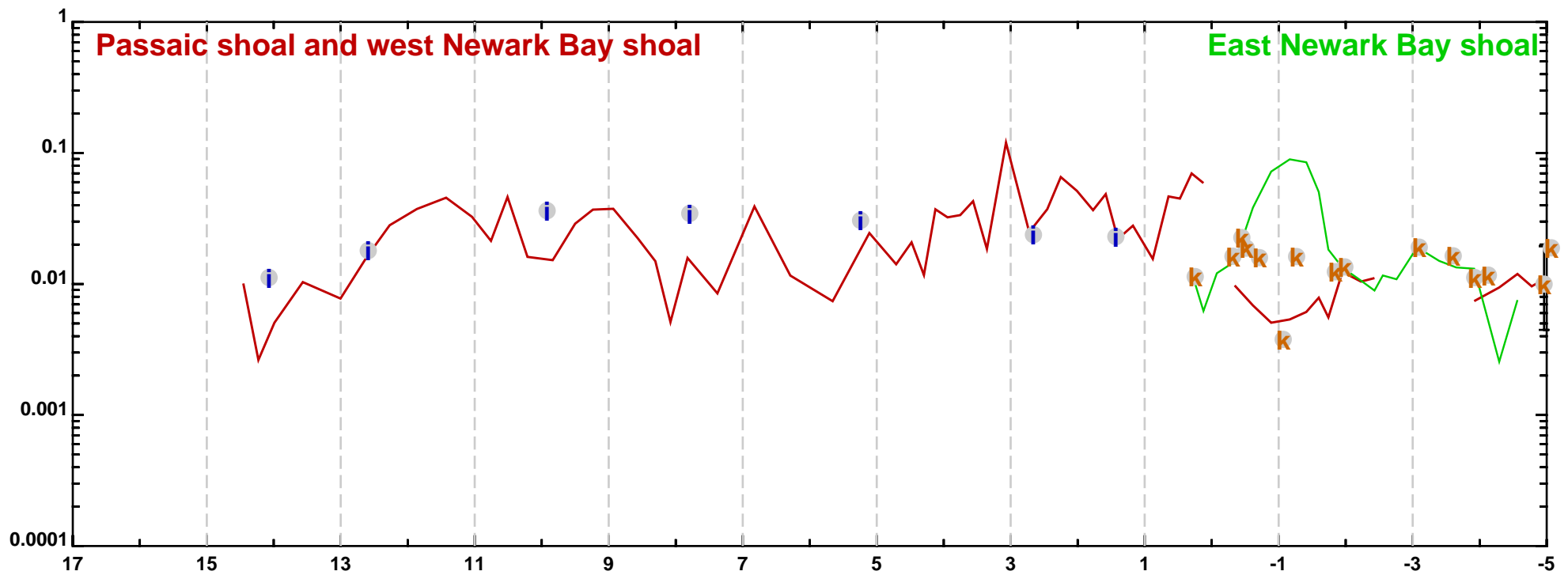
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



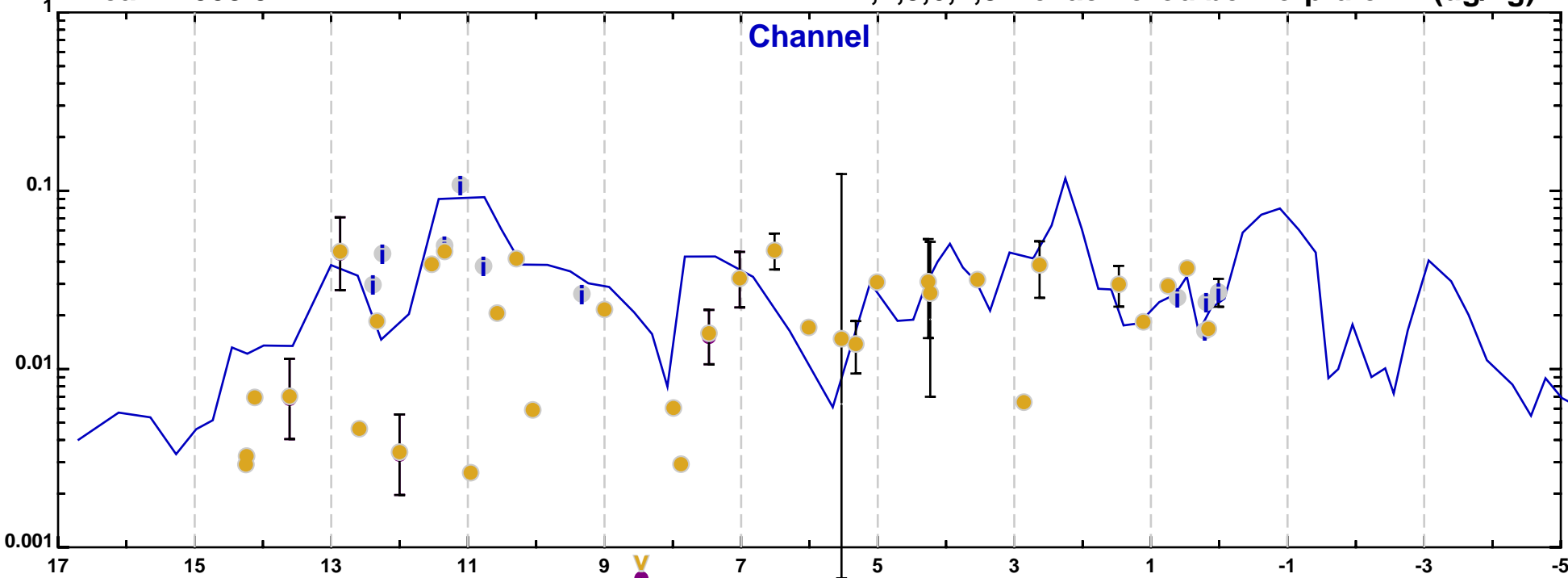
River Mile

Year = 2008.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

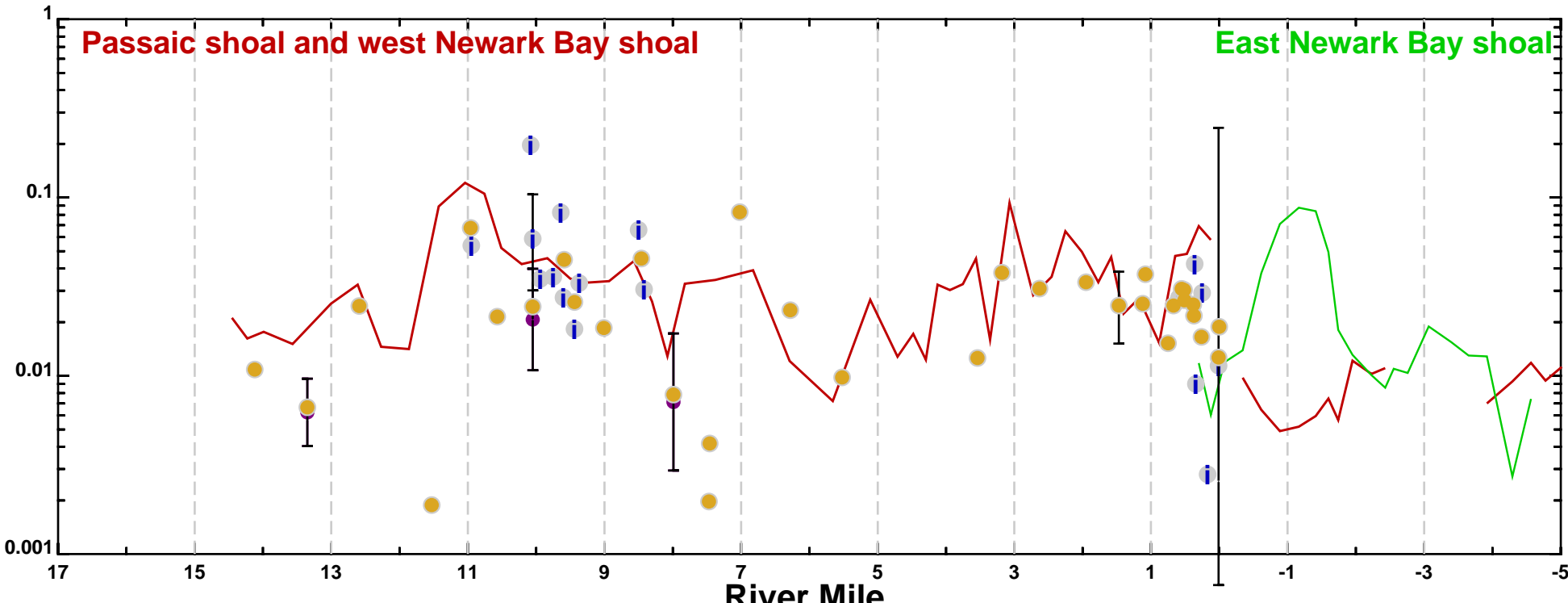
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



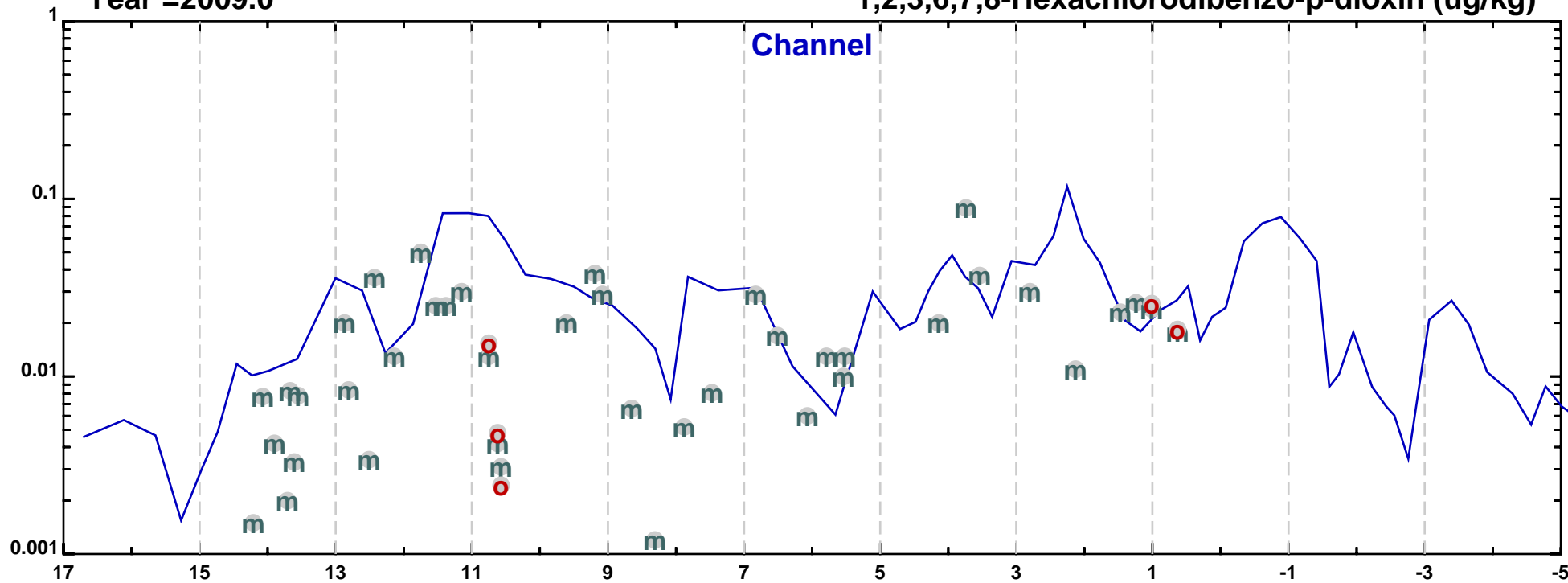
River Mile

Year =2009.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

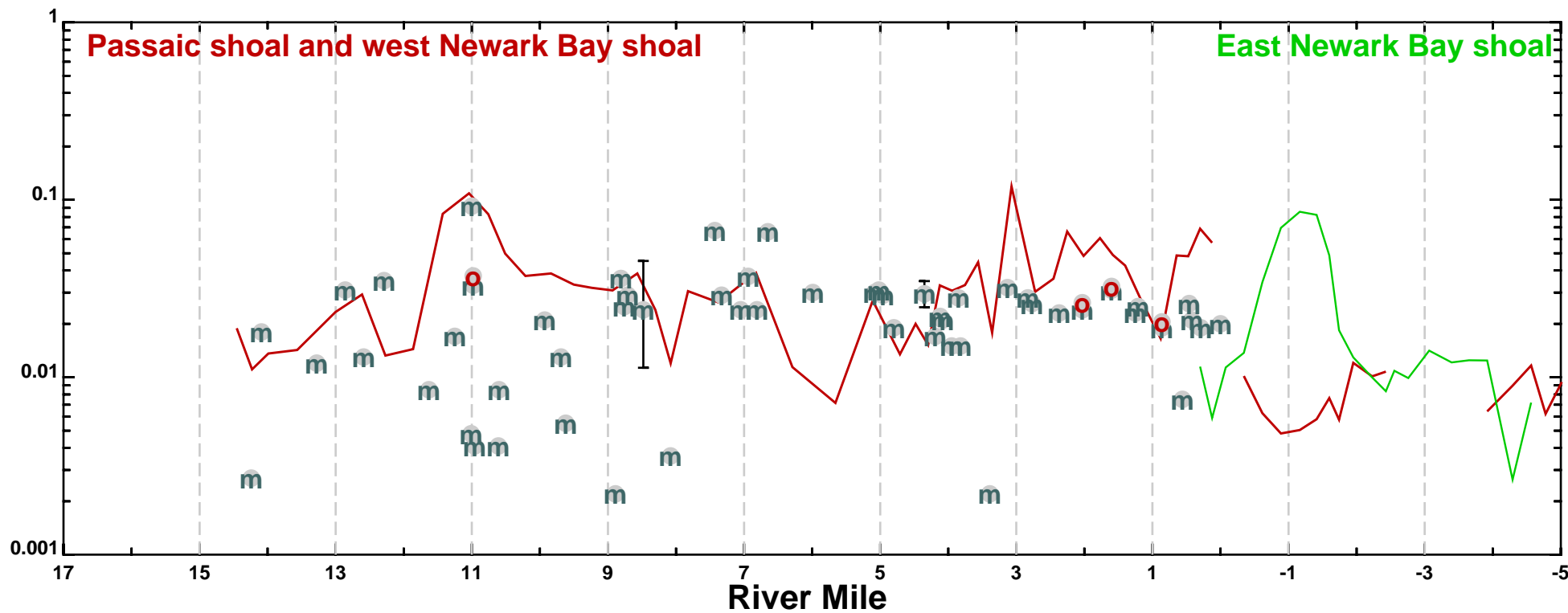
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

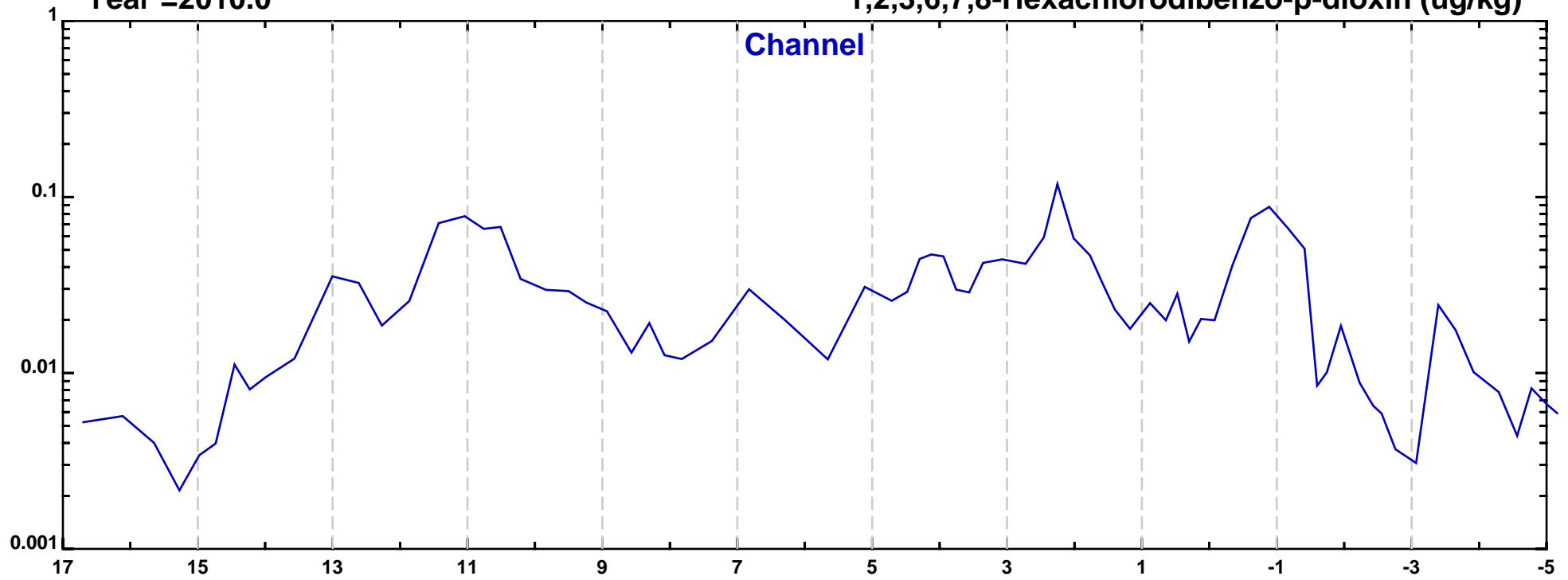


Year =2010.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

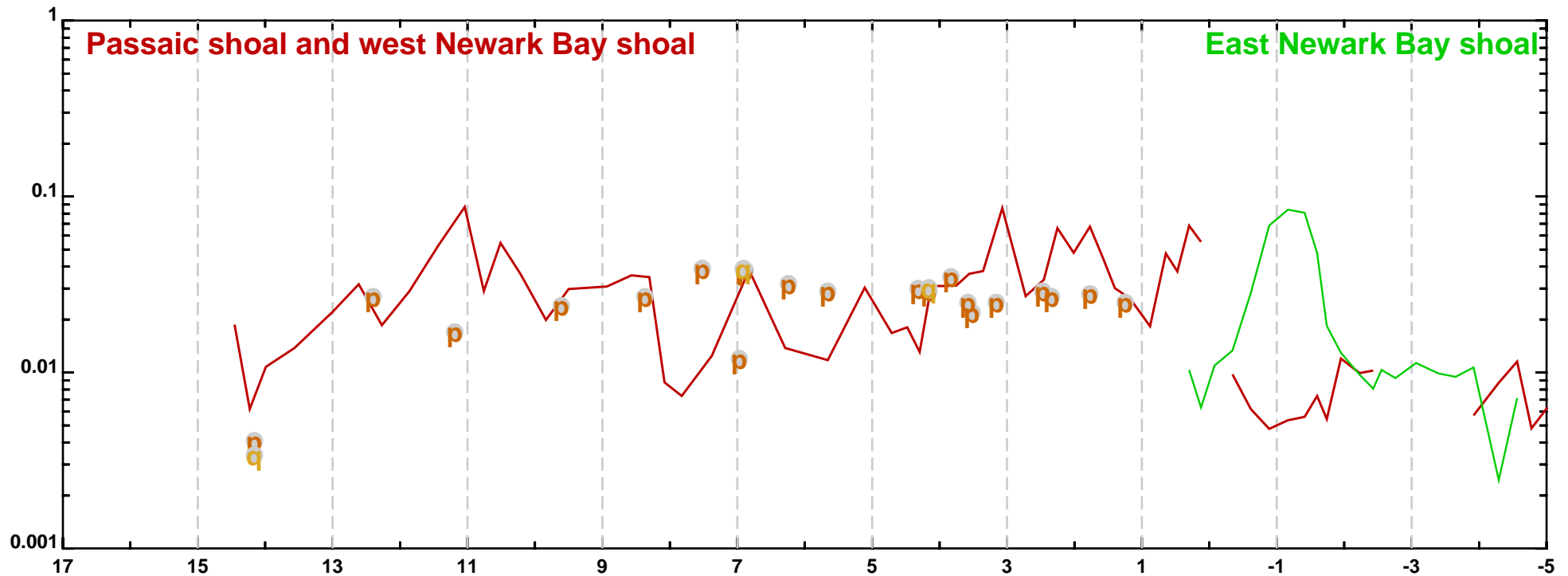
Top 15cm Conc. (ug/kg-DW)

Channel

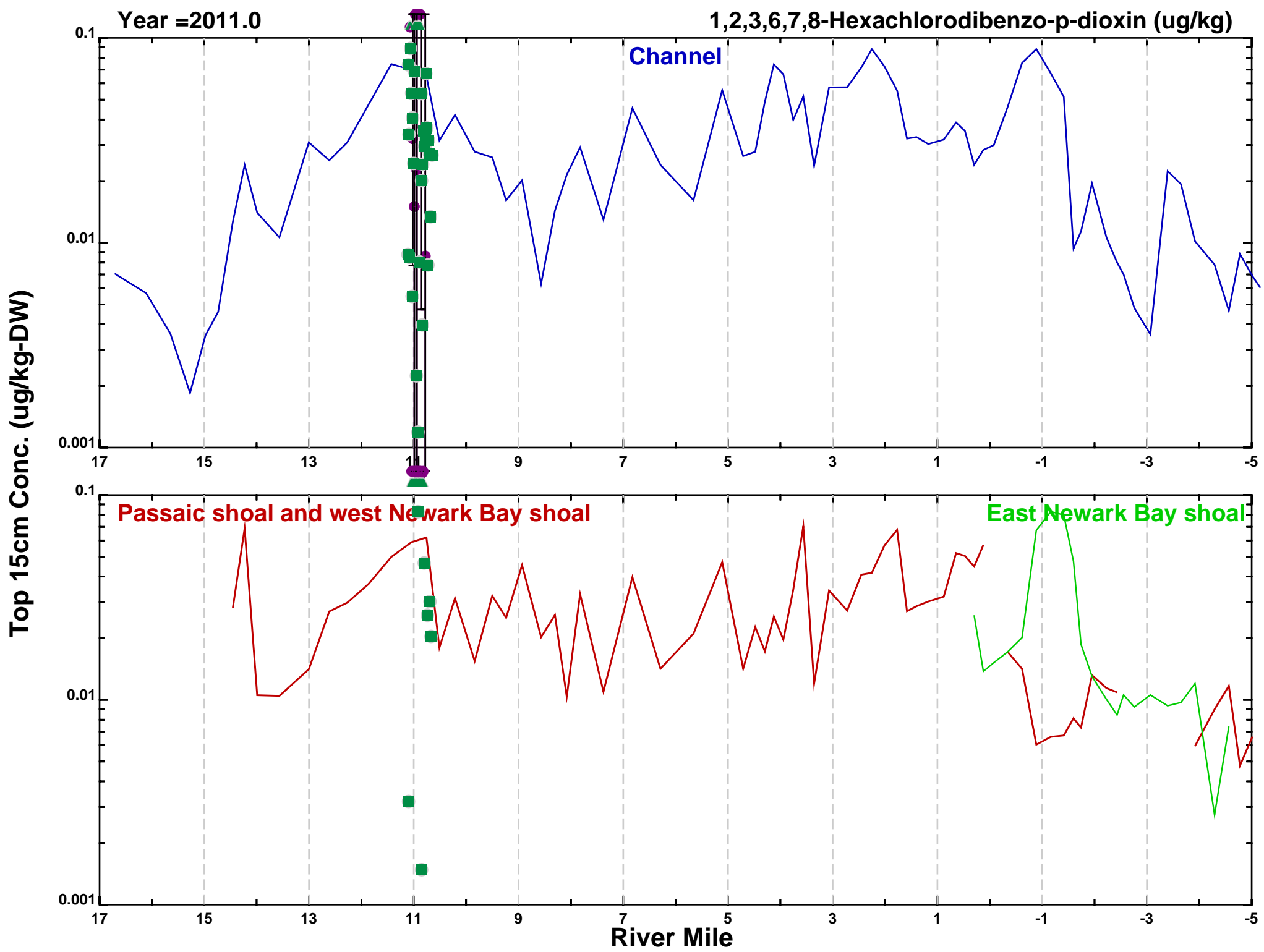


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



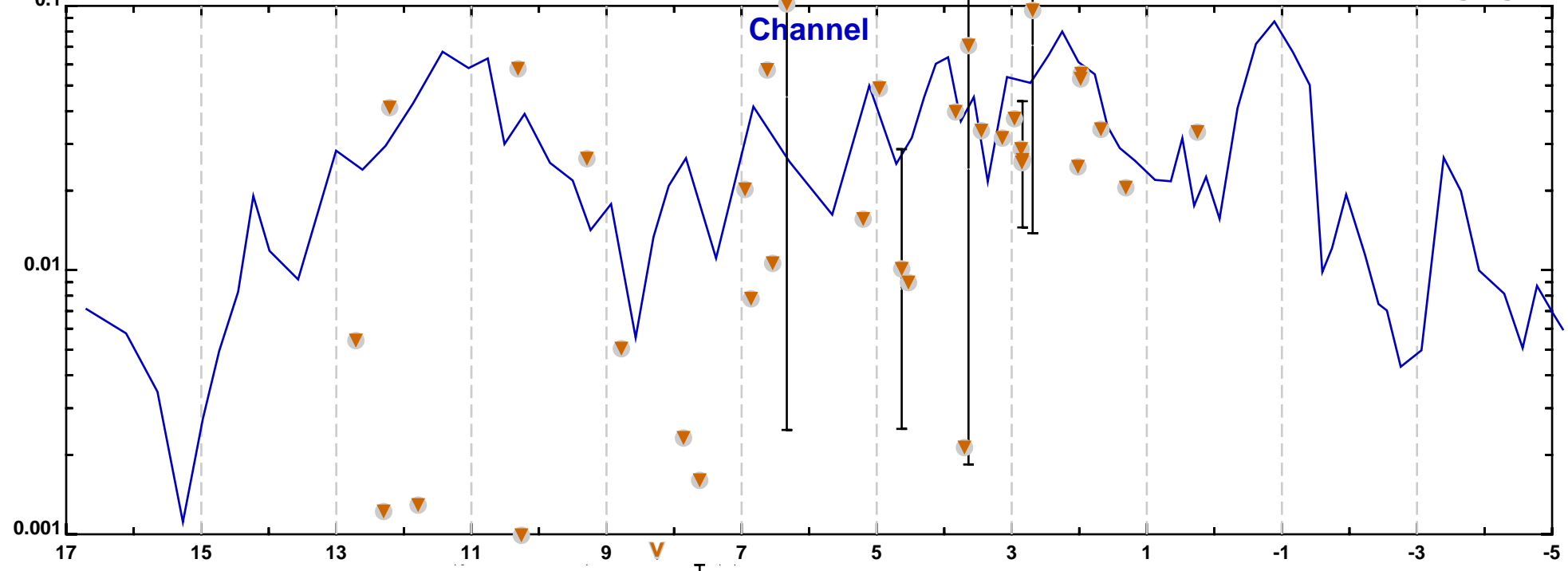
River Mile



Year =2012.0

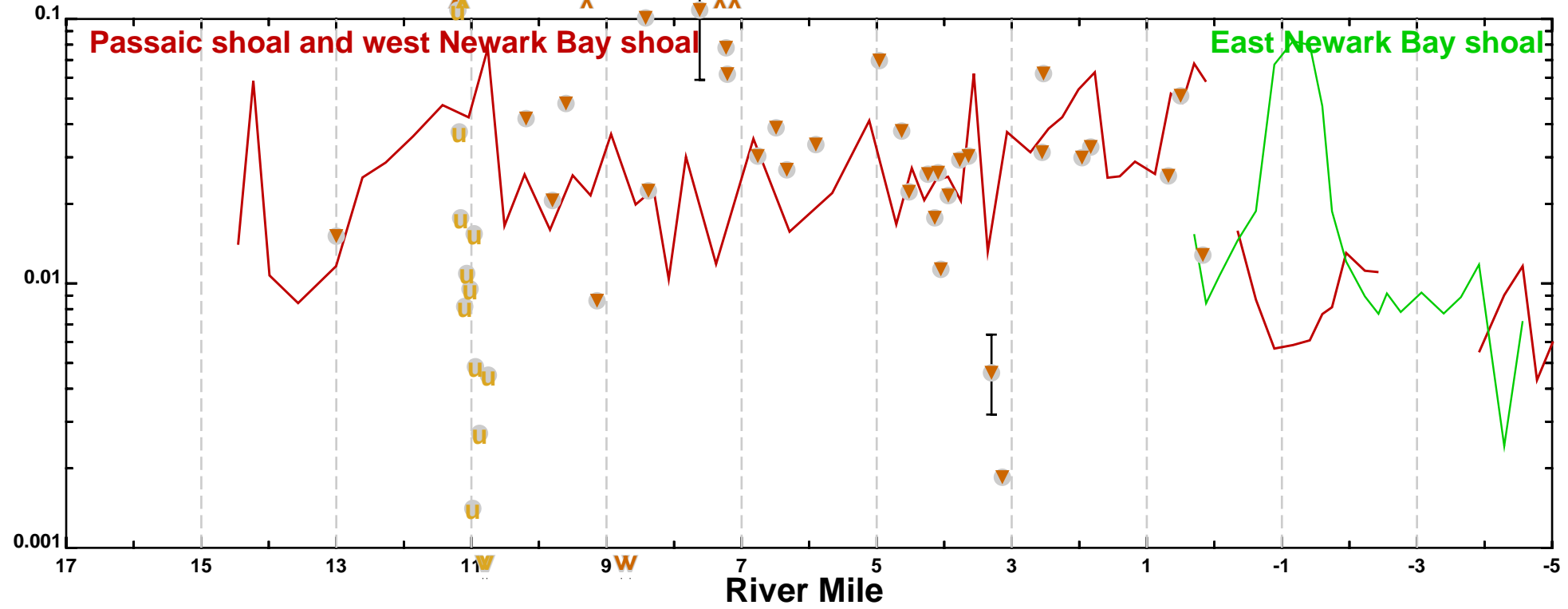
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



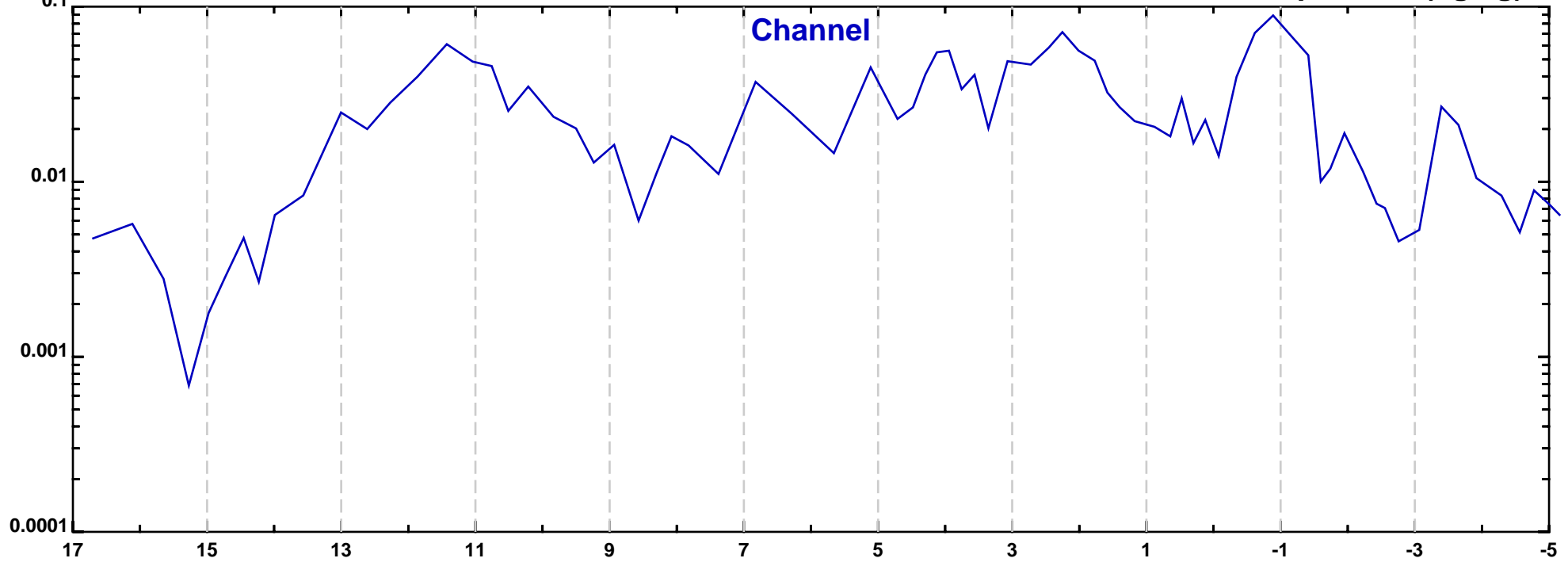
River Mile

Year =2013.0

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg)

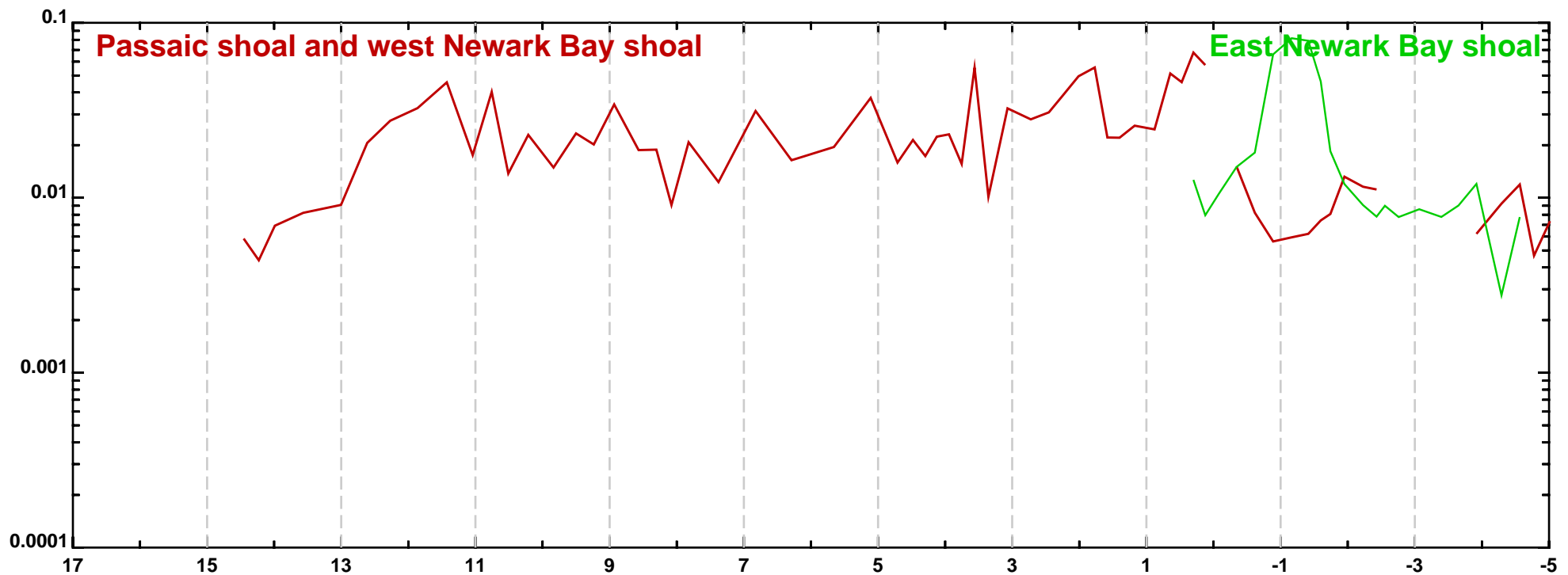
Top 15cm Conc. (ug/kg-DW)

Channel

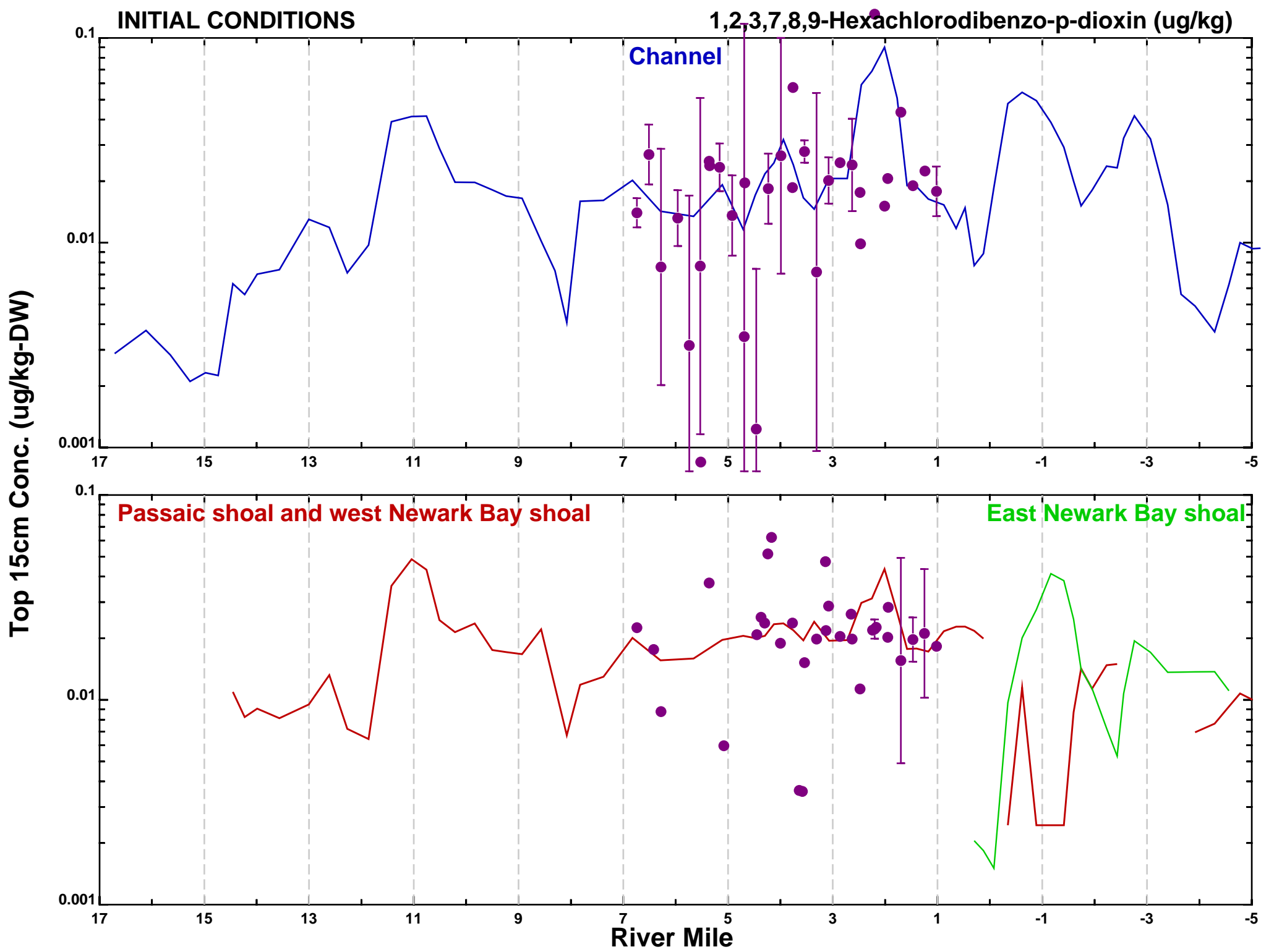


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile





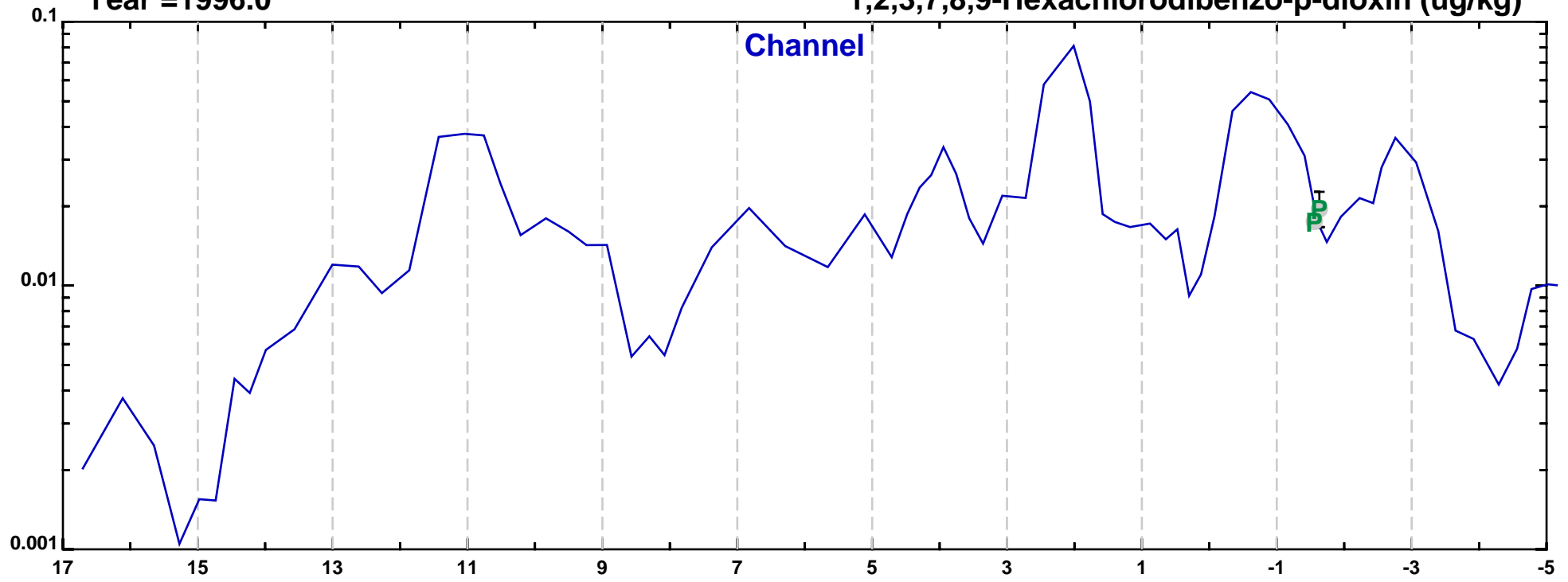
Year =1996.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)

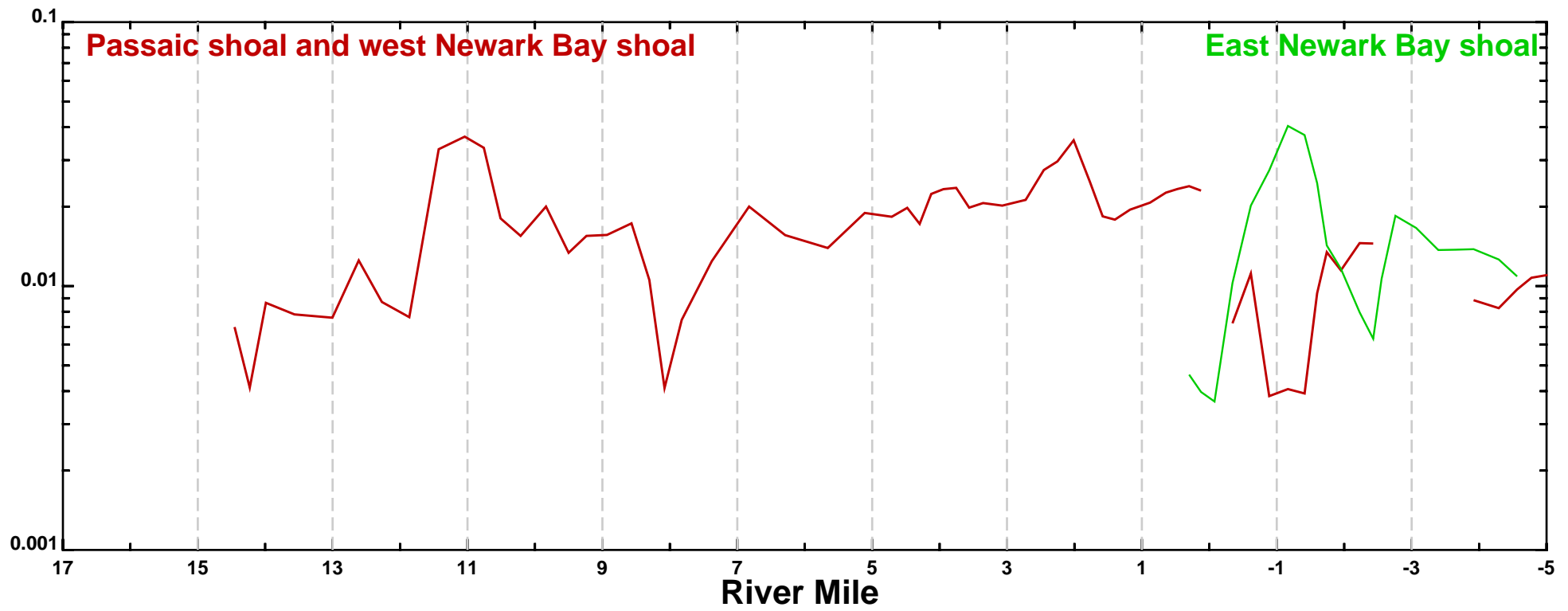
Channel

100



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

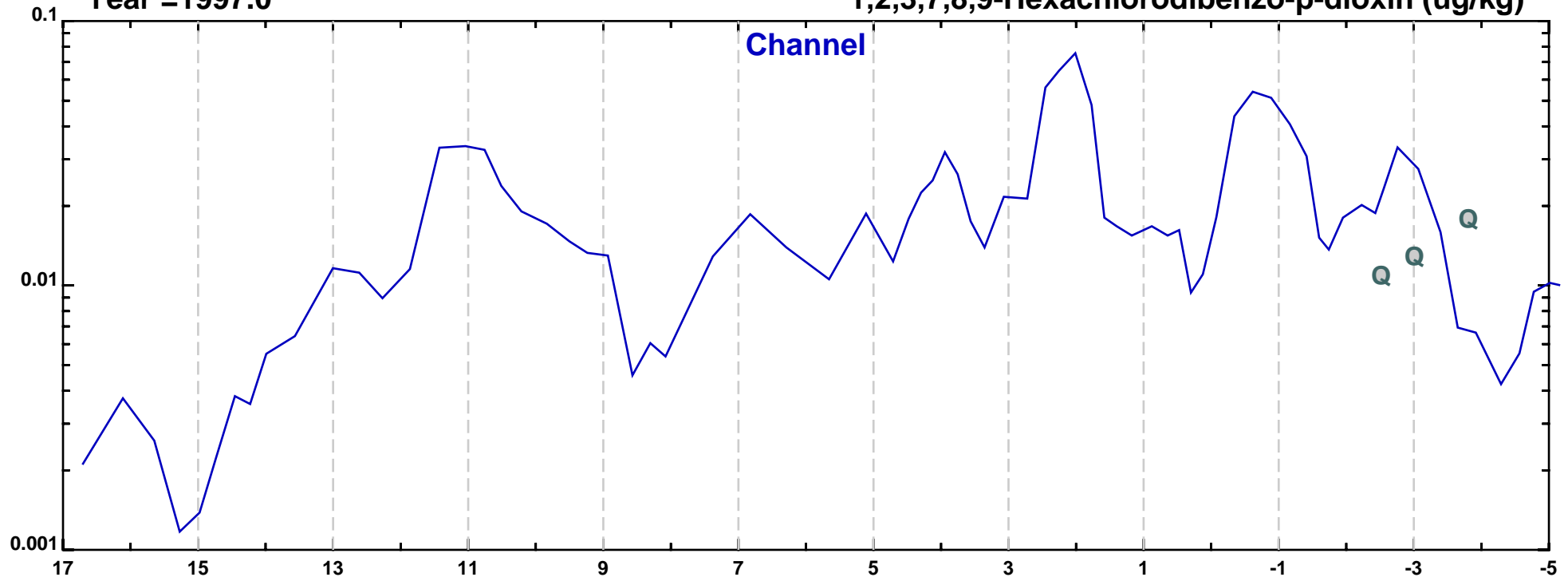


Year =1997.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

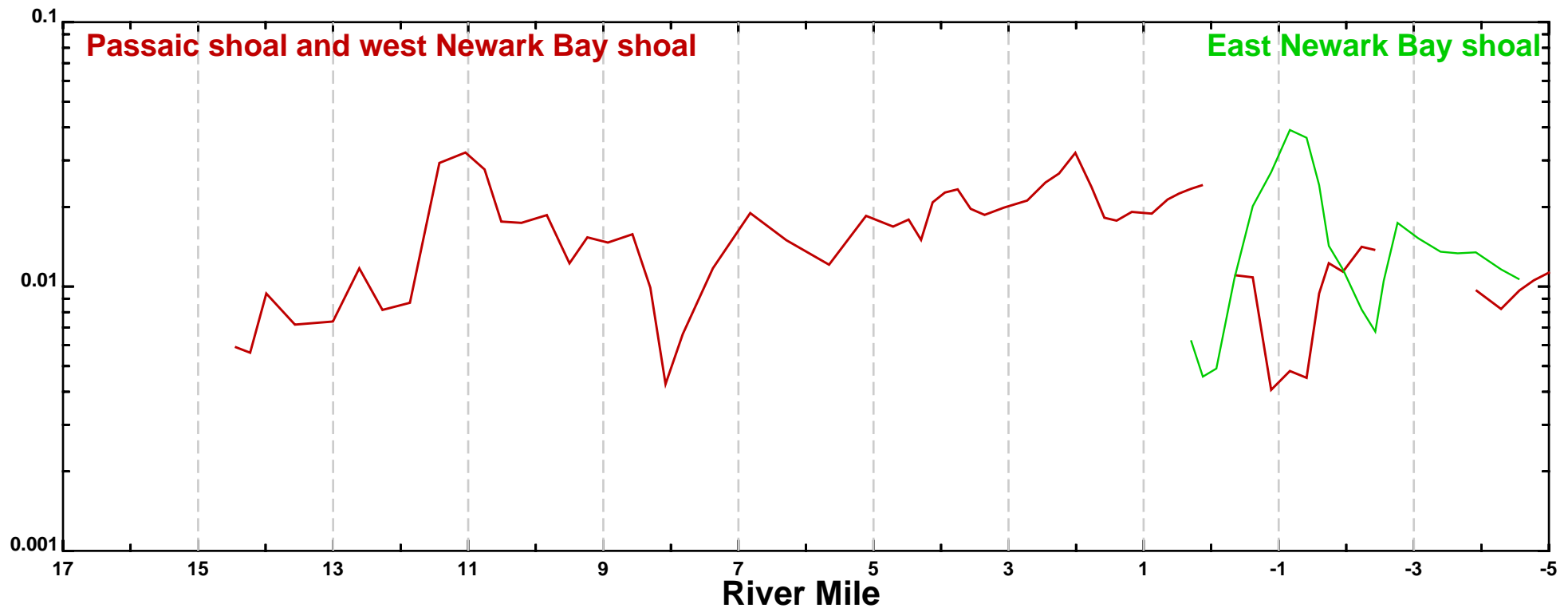
Top 15cm Conc. (ug/kg-DW)

Channel



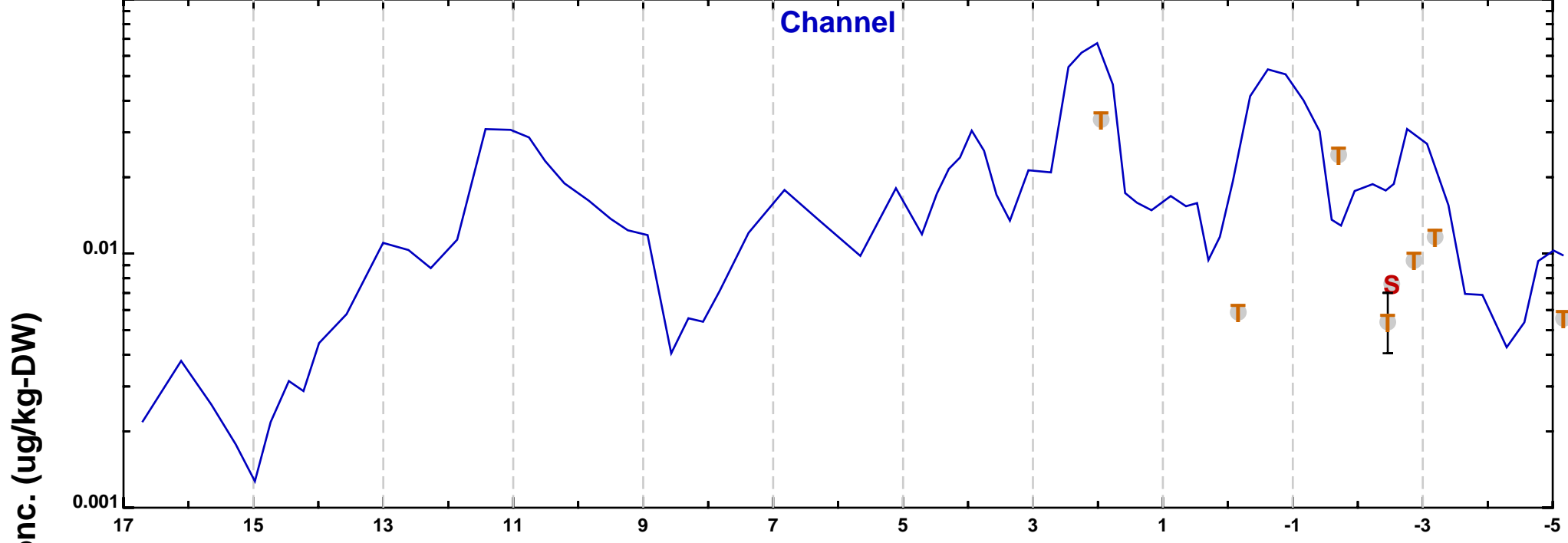
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



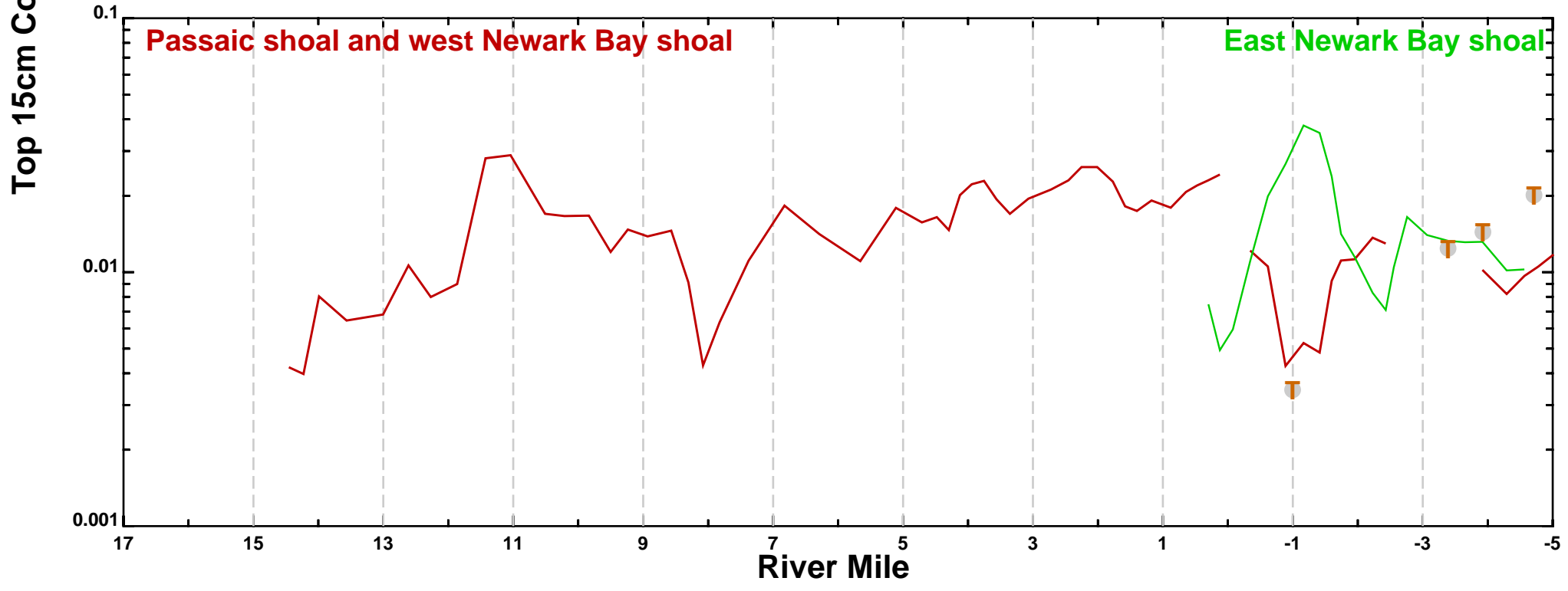
Year =1998.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



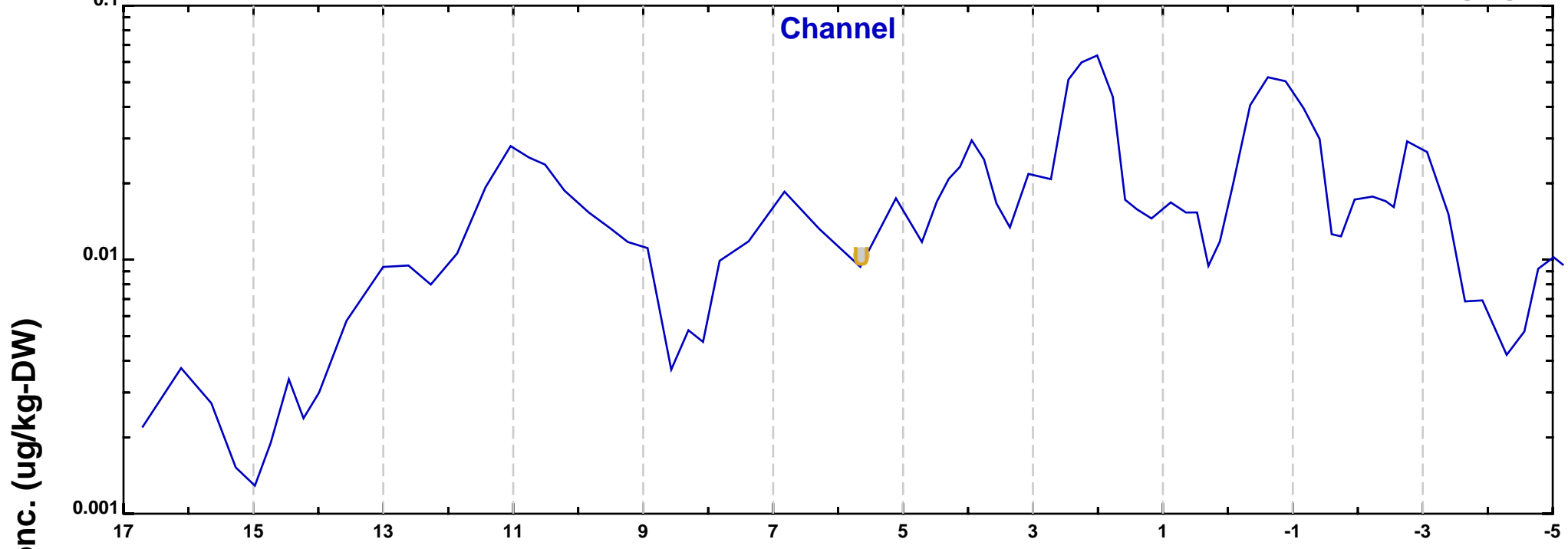
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



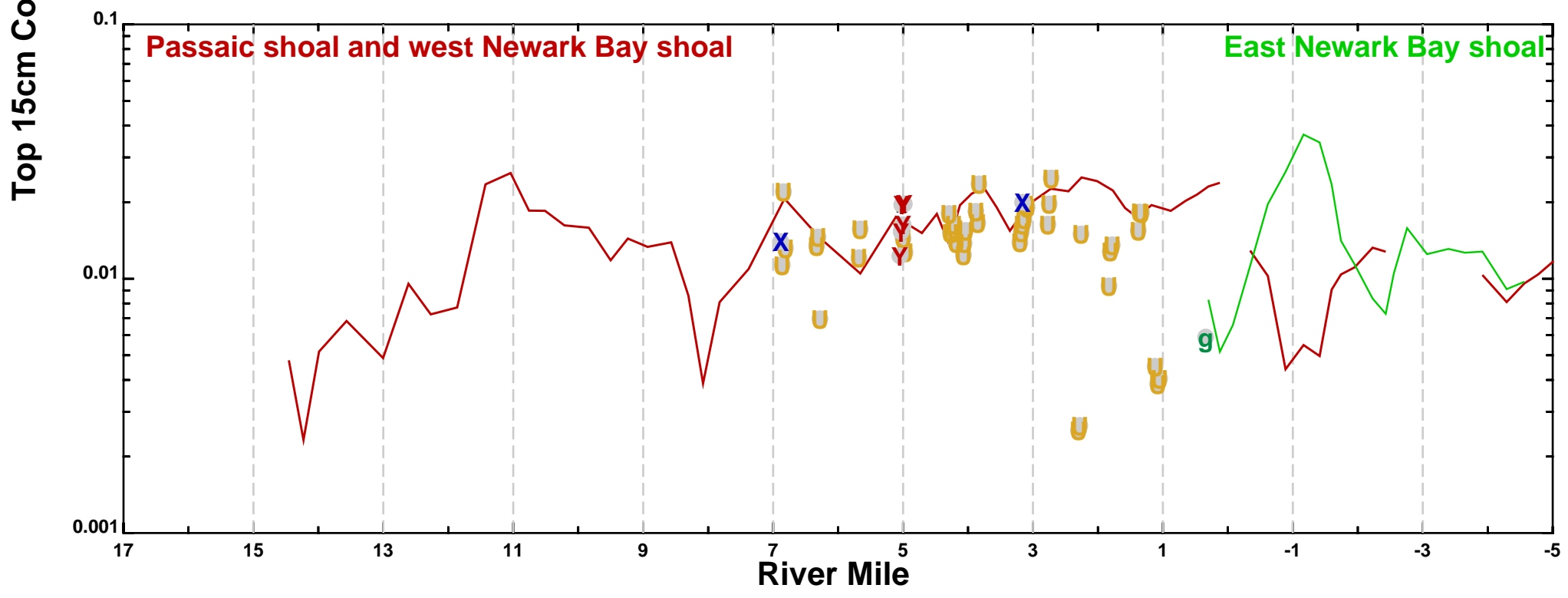
Year =1999.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

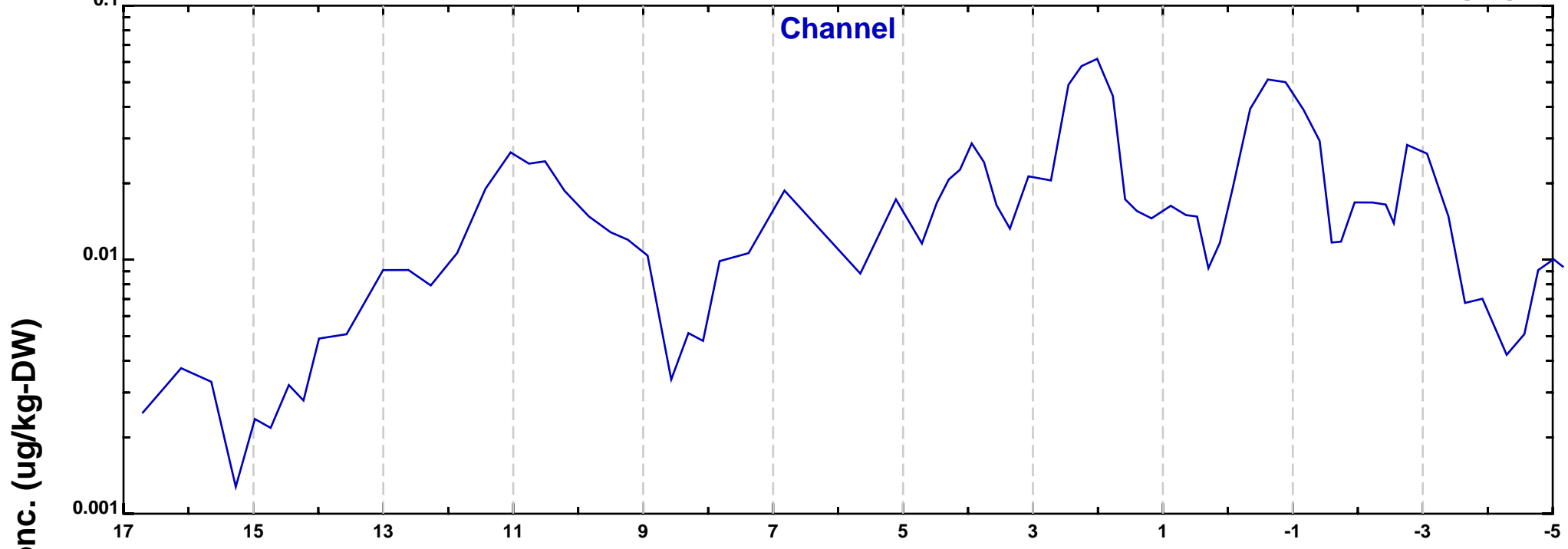
East Newark Bay shoal



River Mile

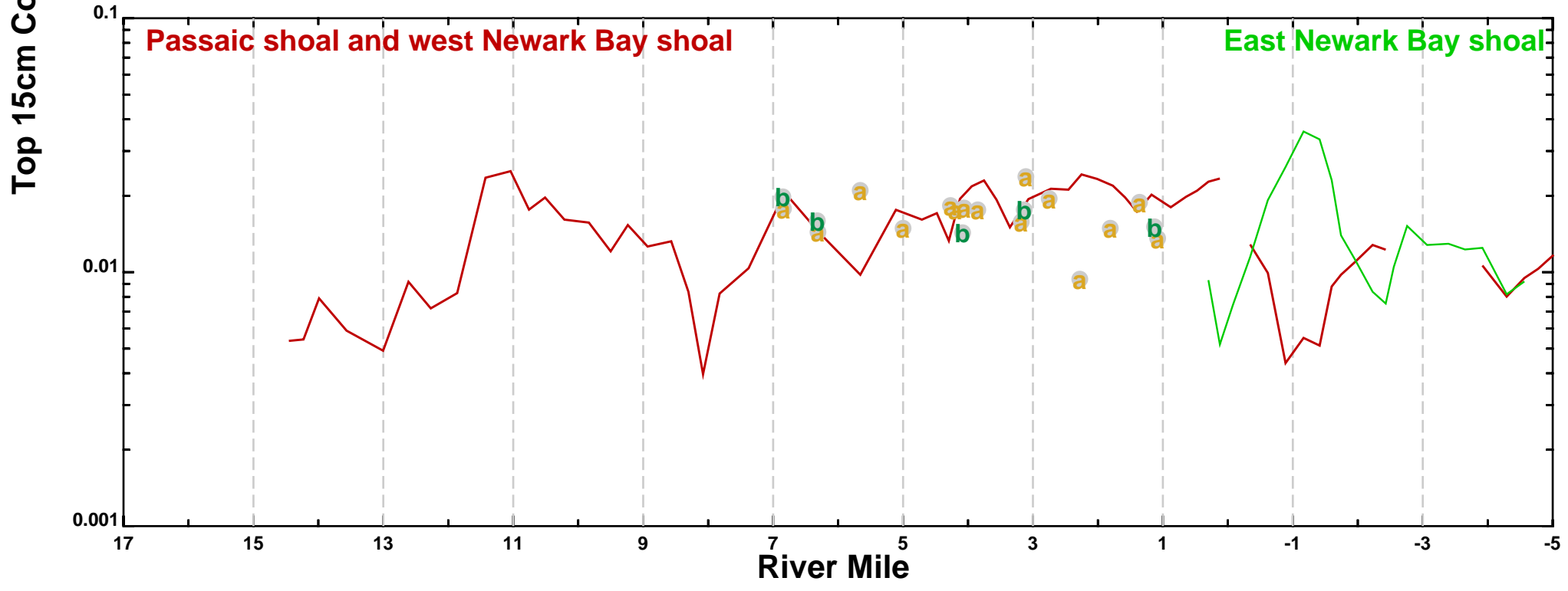
Year =2000.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



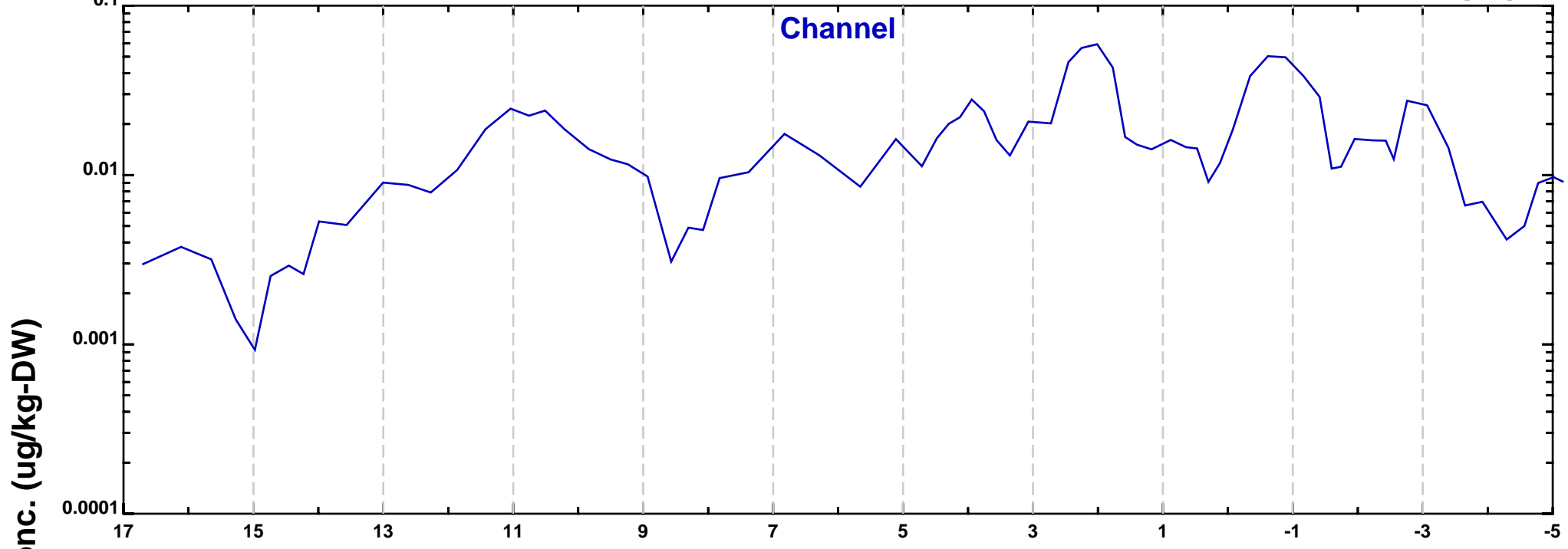
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



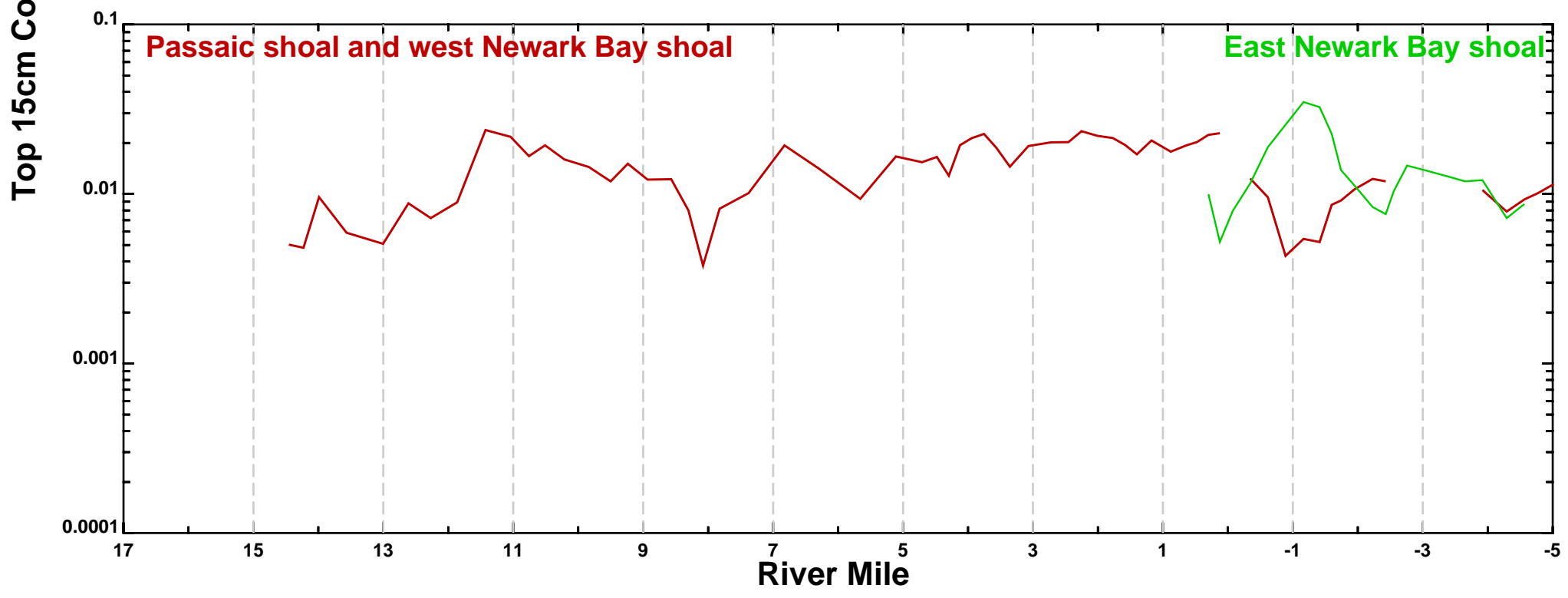
Year =2001.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



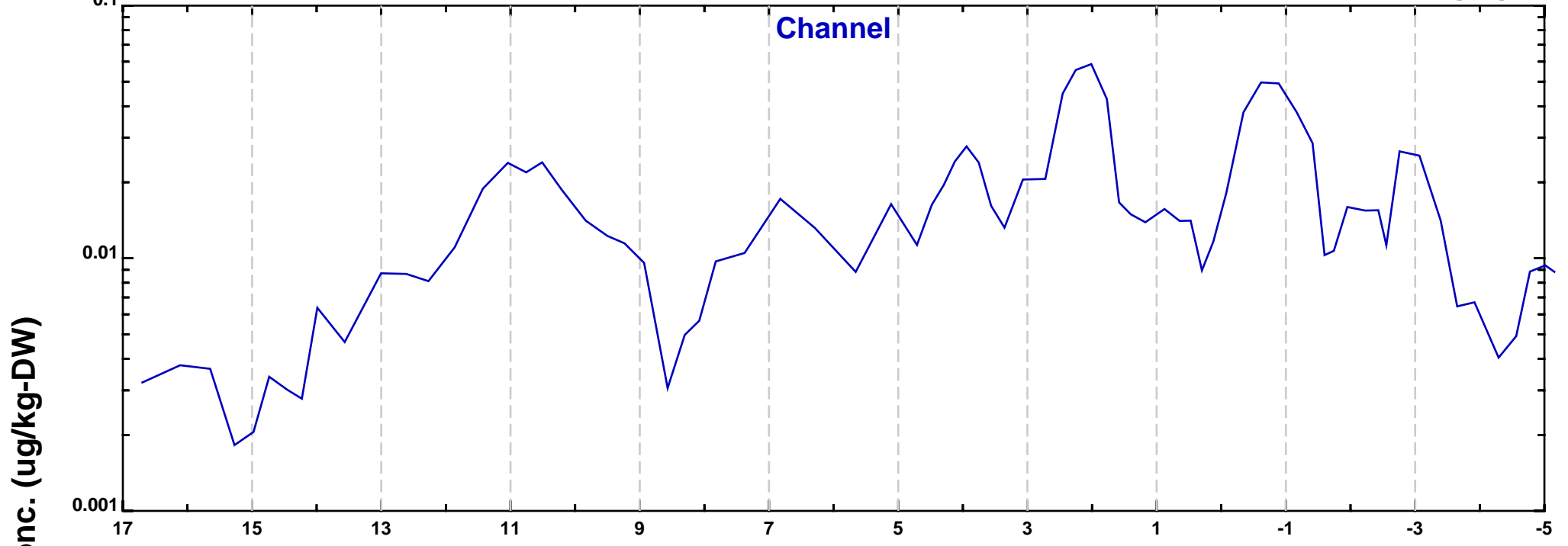
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



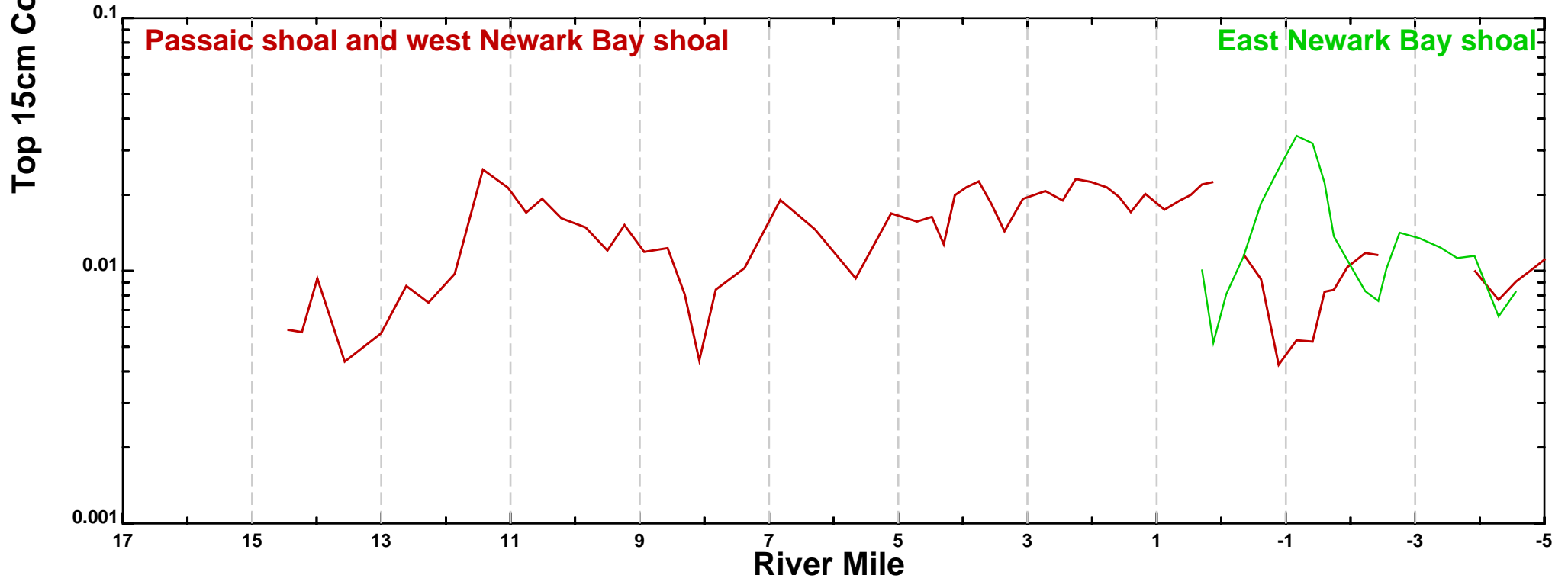
Year =2002.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

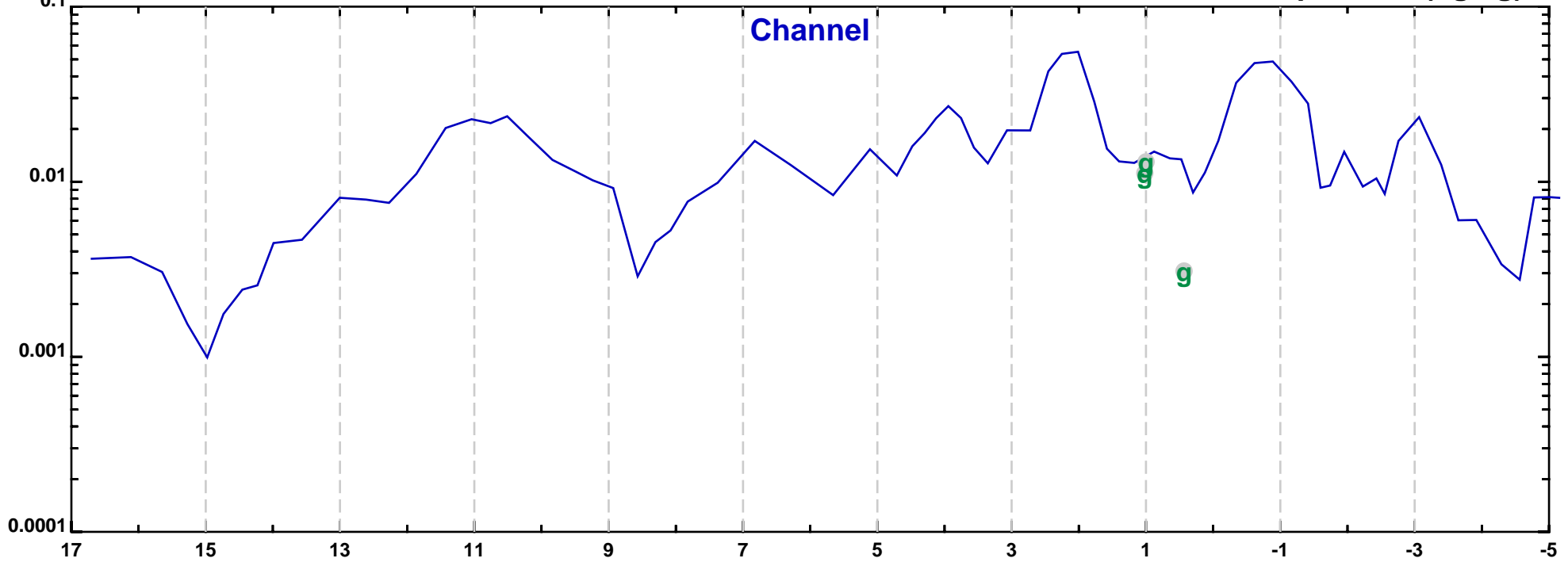


Year =2003.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

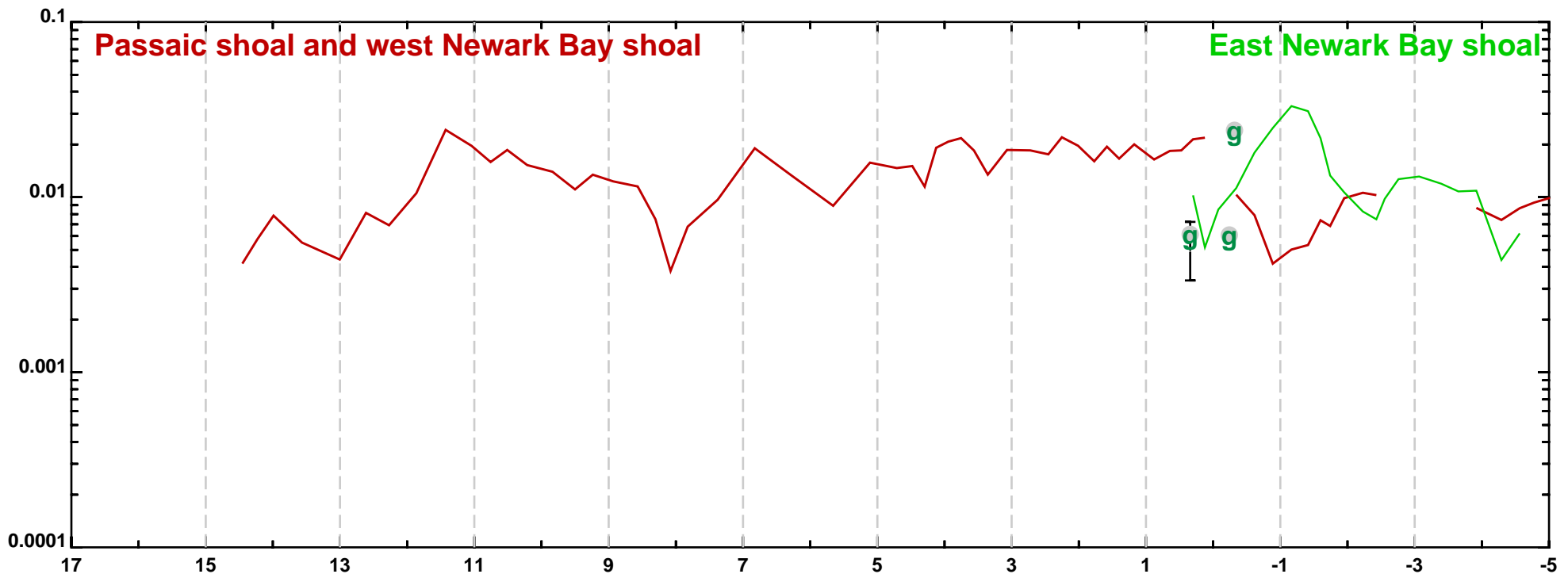
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

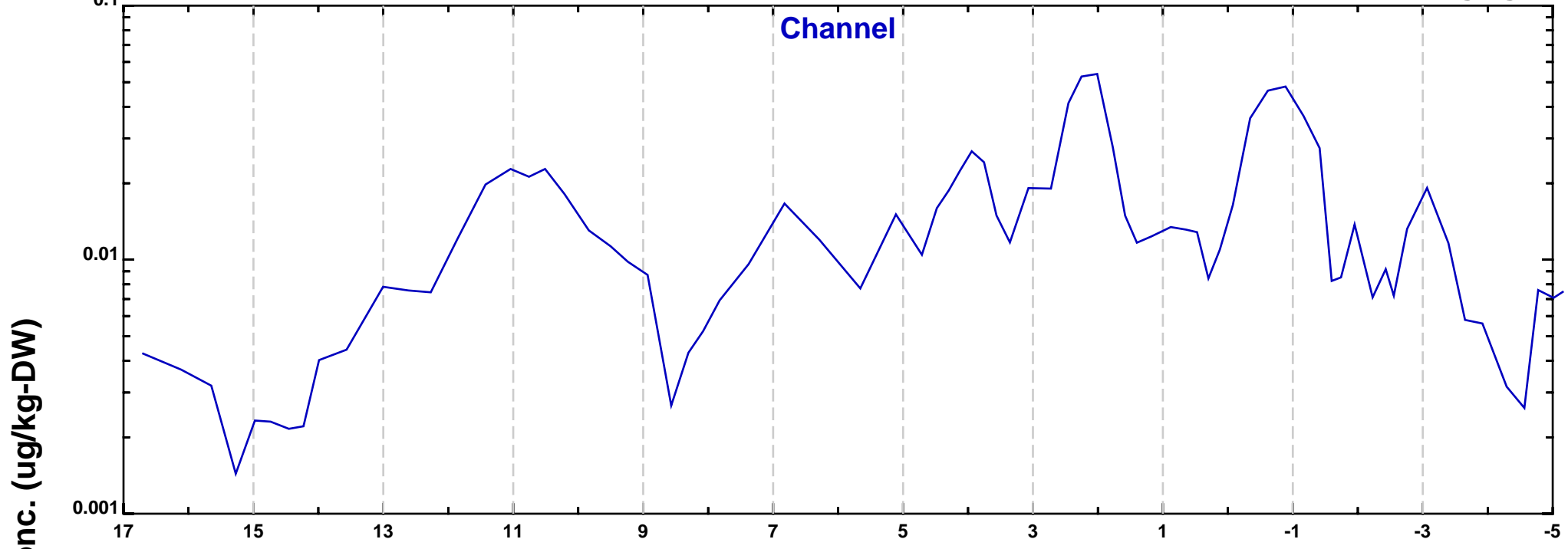


River Mile



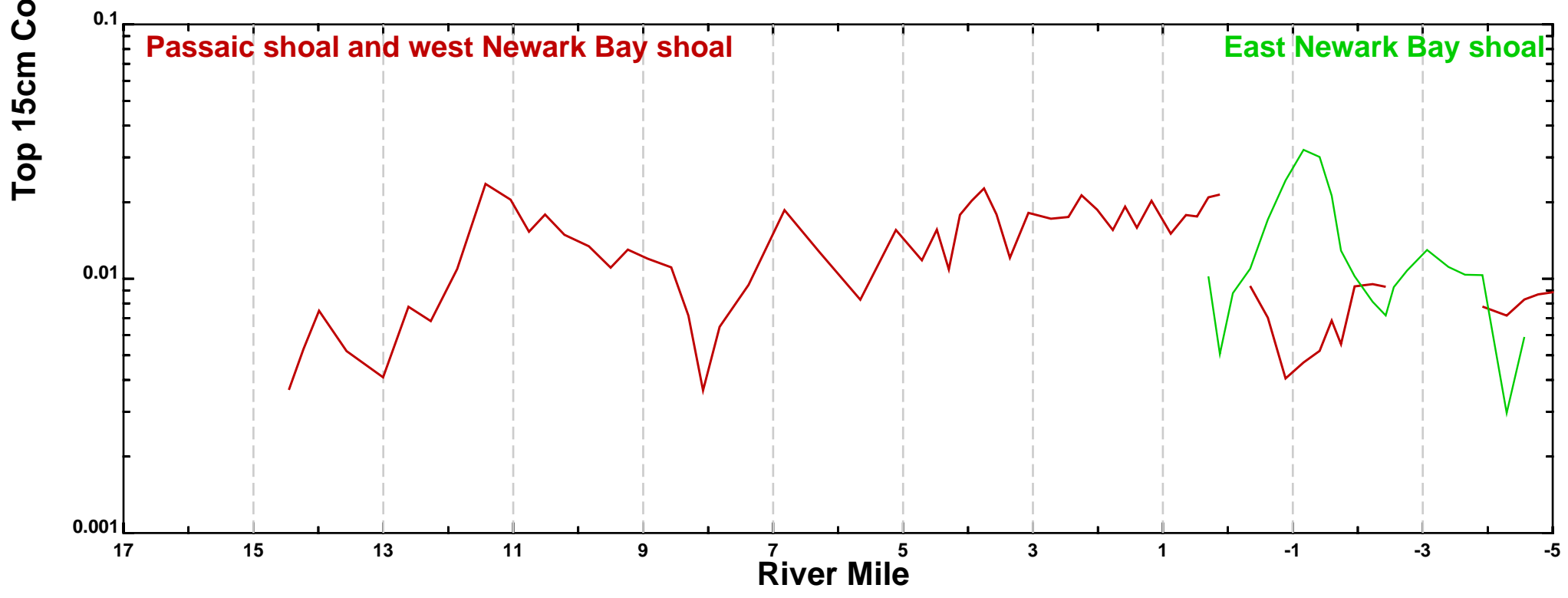
Year =2004.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

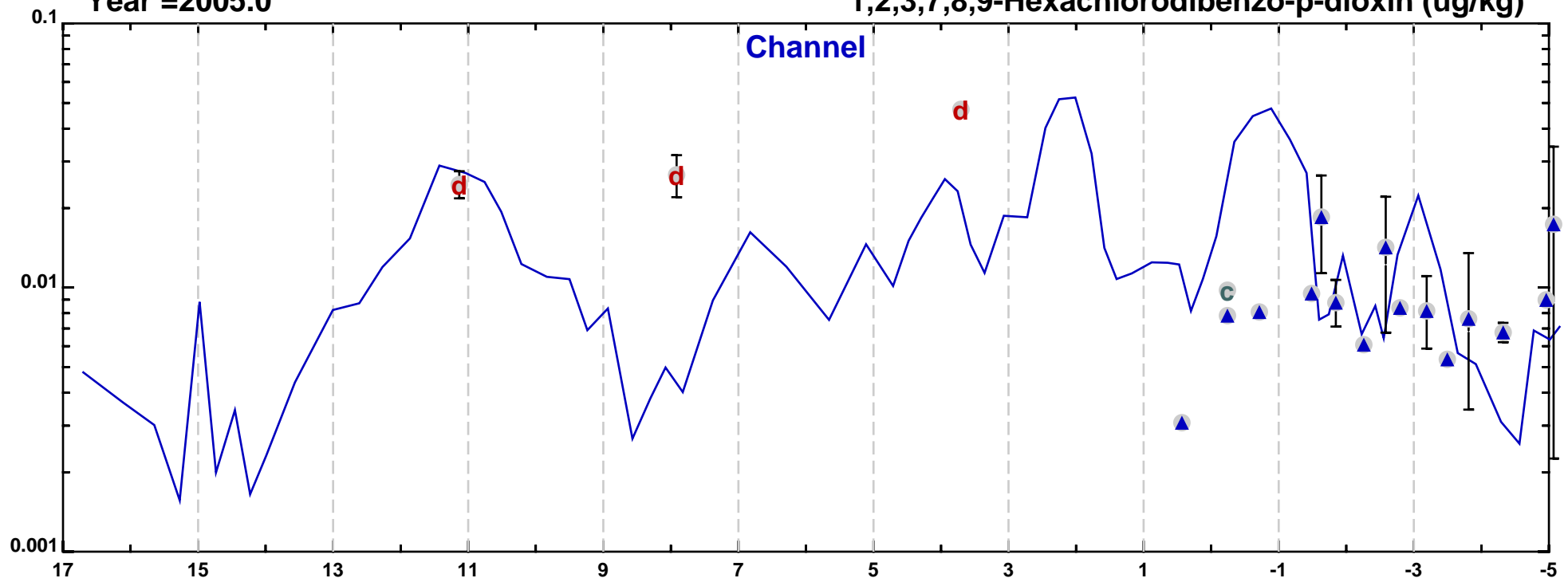


Year =2005.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

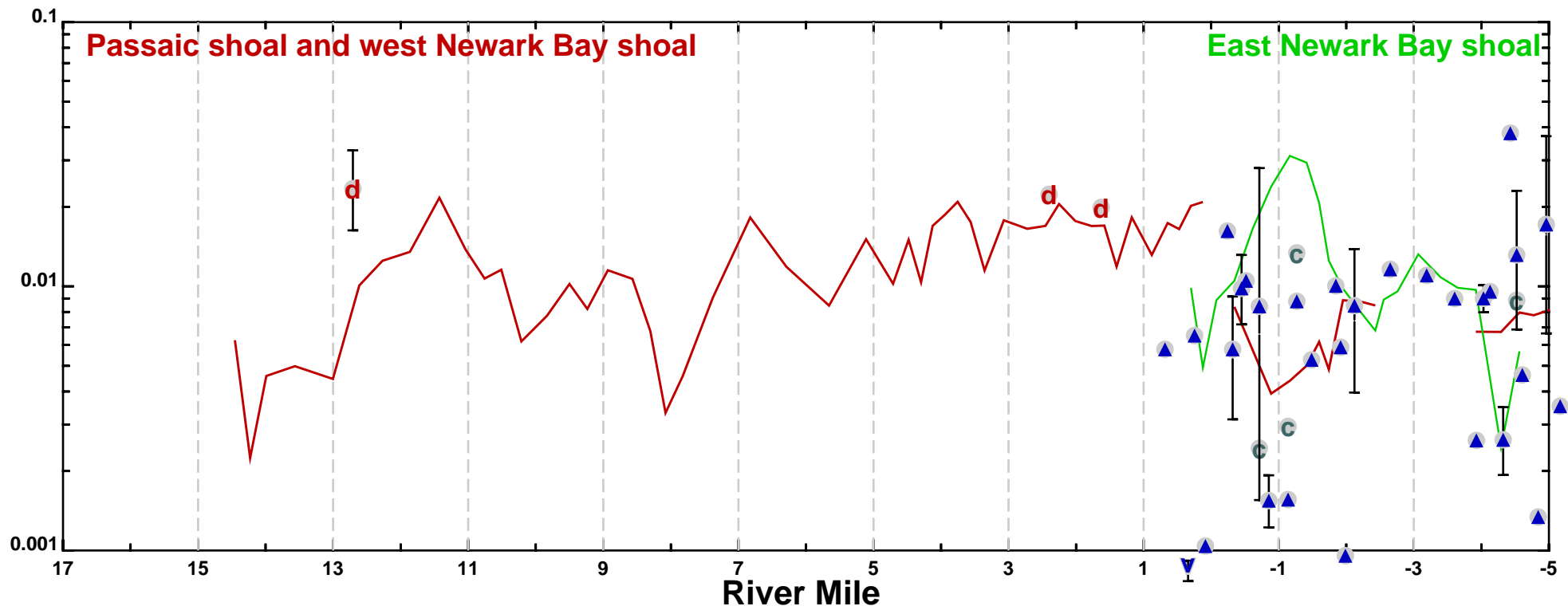
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

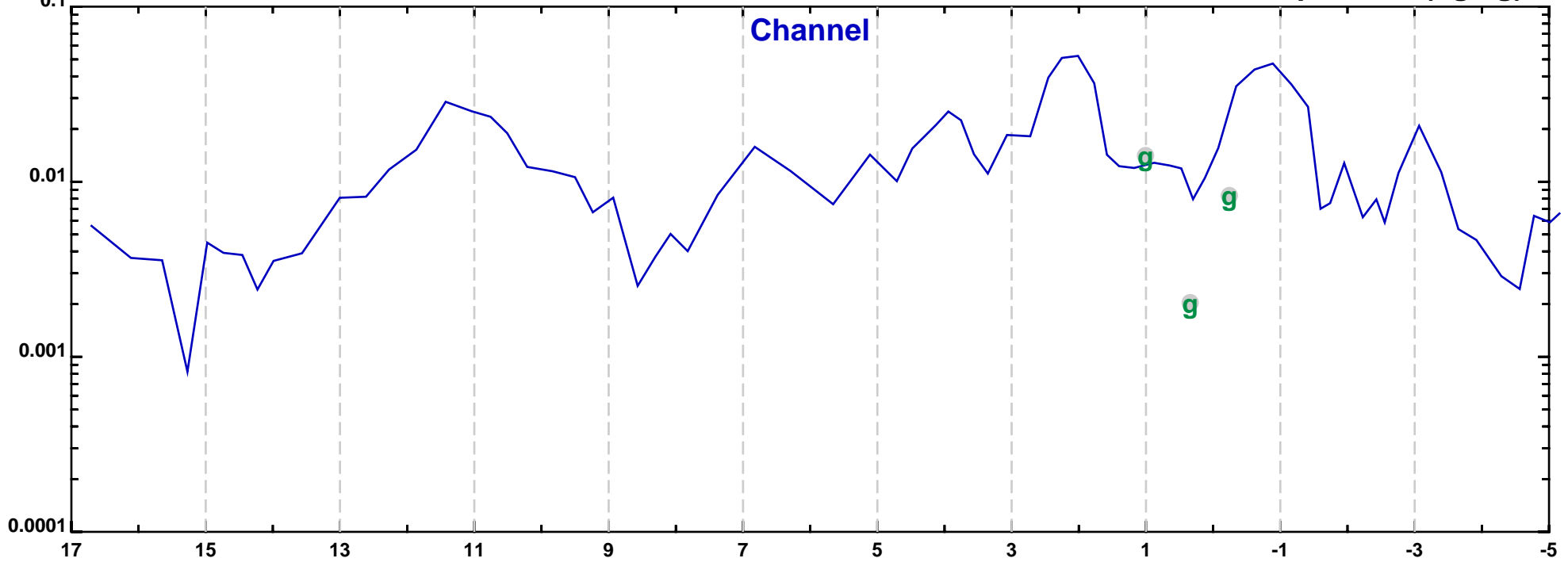


Year =2006.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

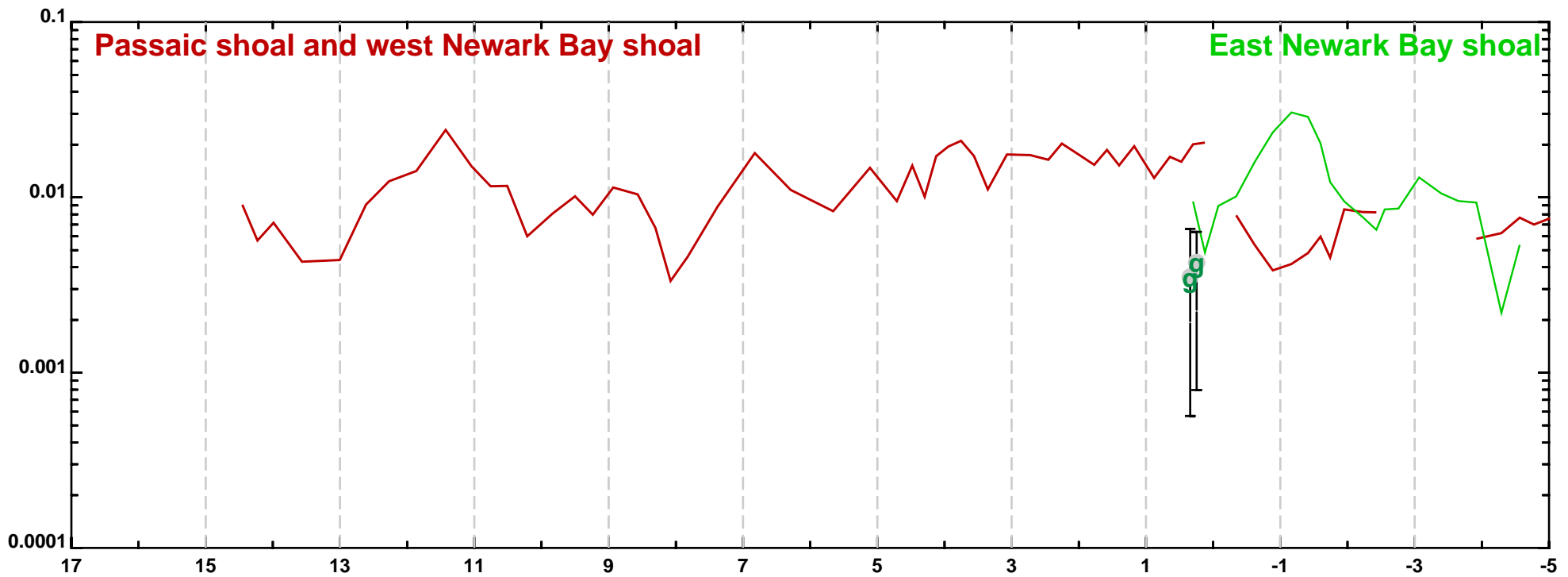
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



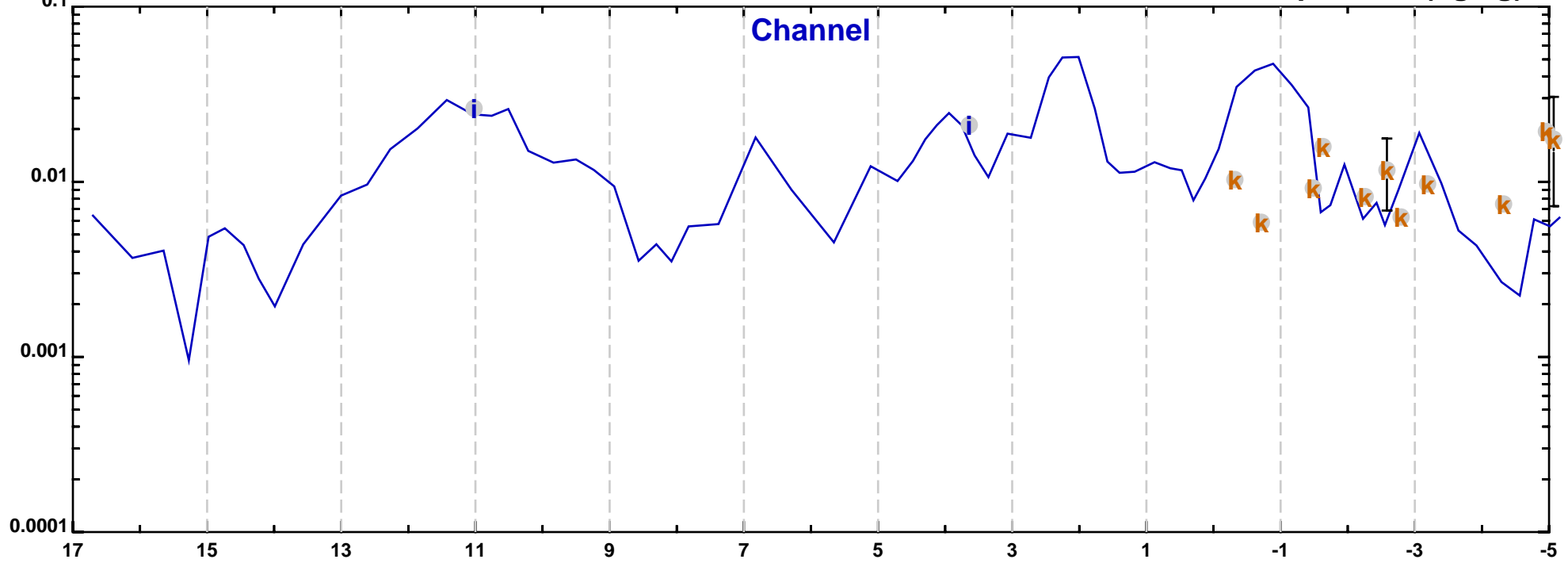
River Mile

Year =2007.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

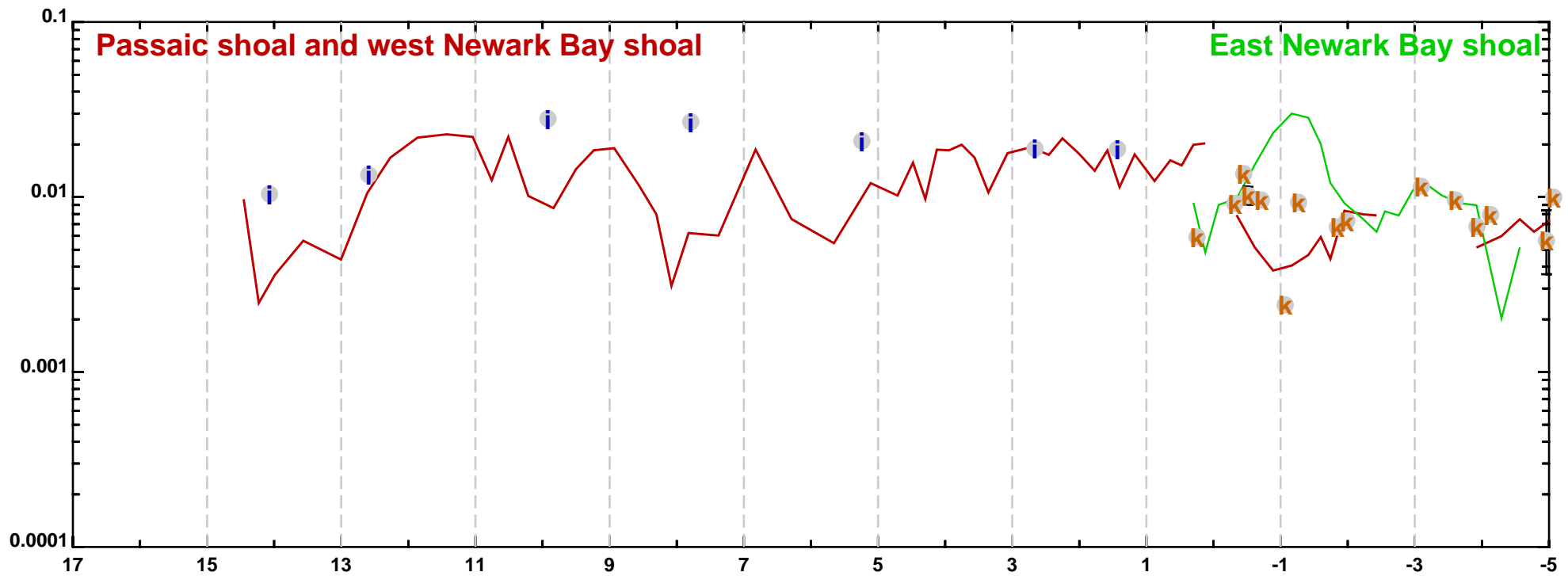
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



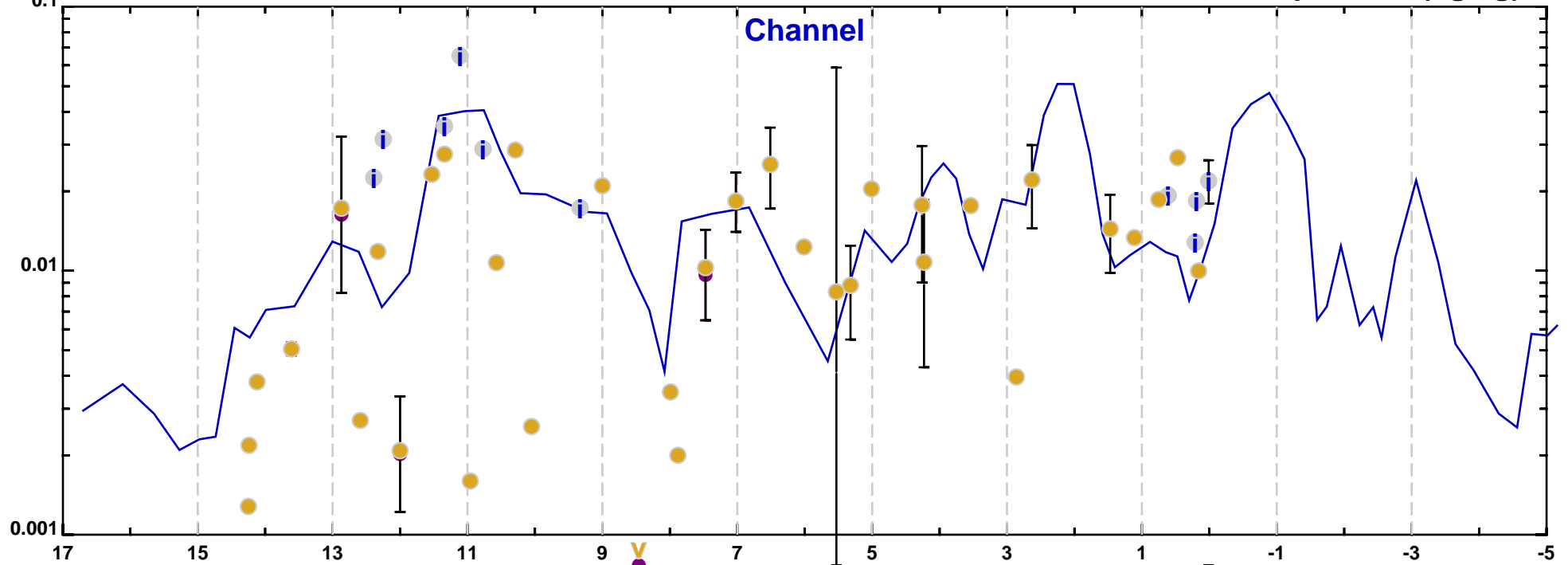
River Mile

Year =2008.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

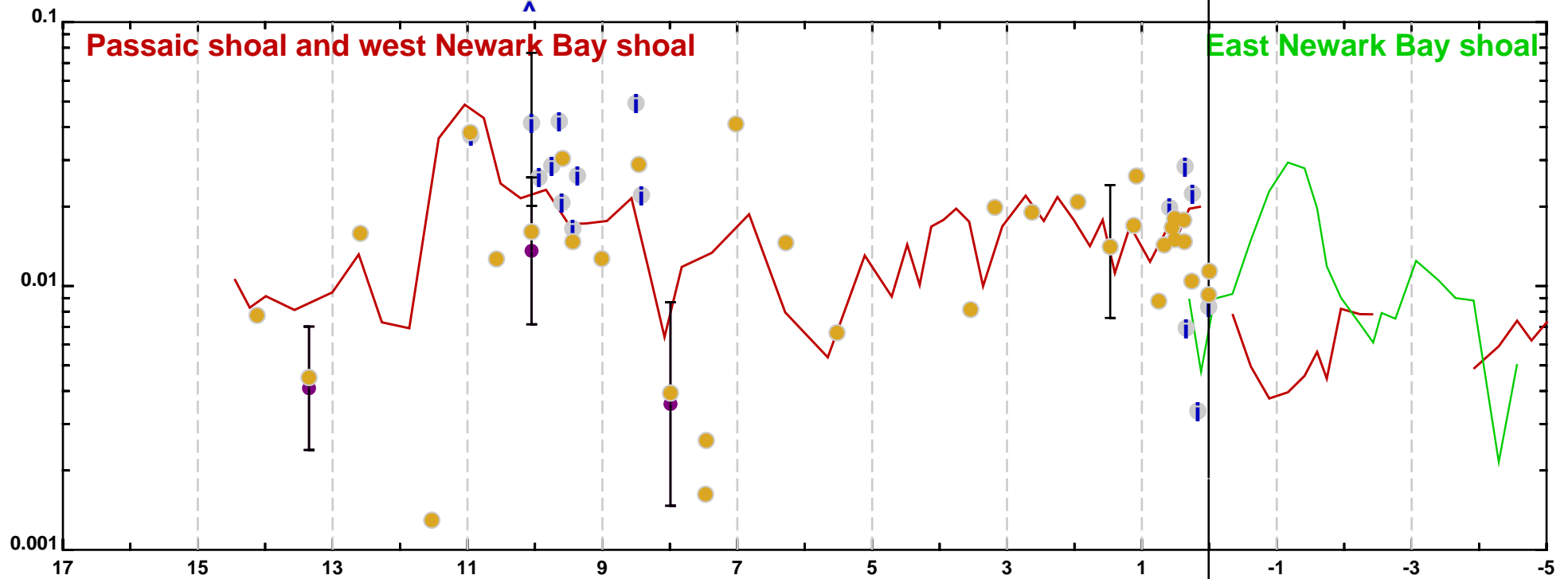
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



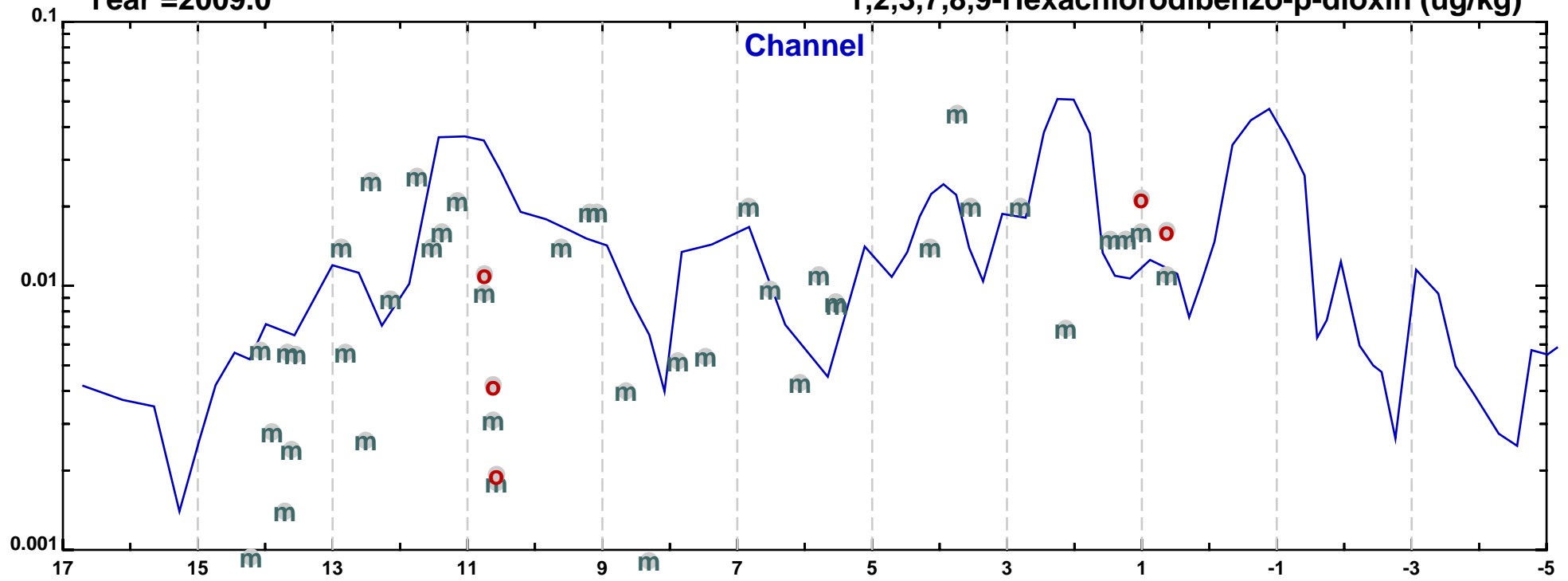
River Mile

Year =2009.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

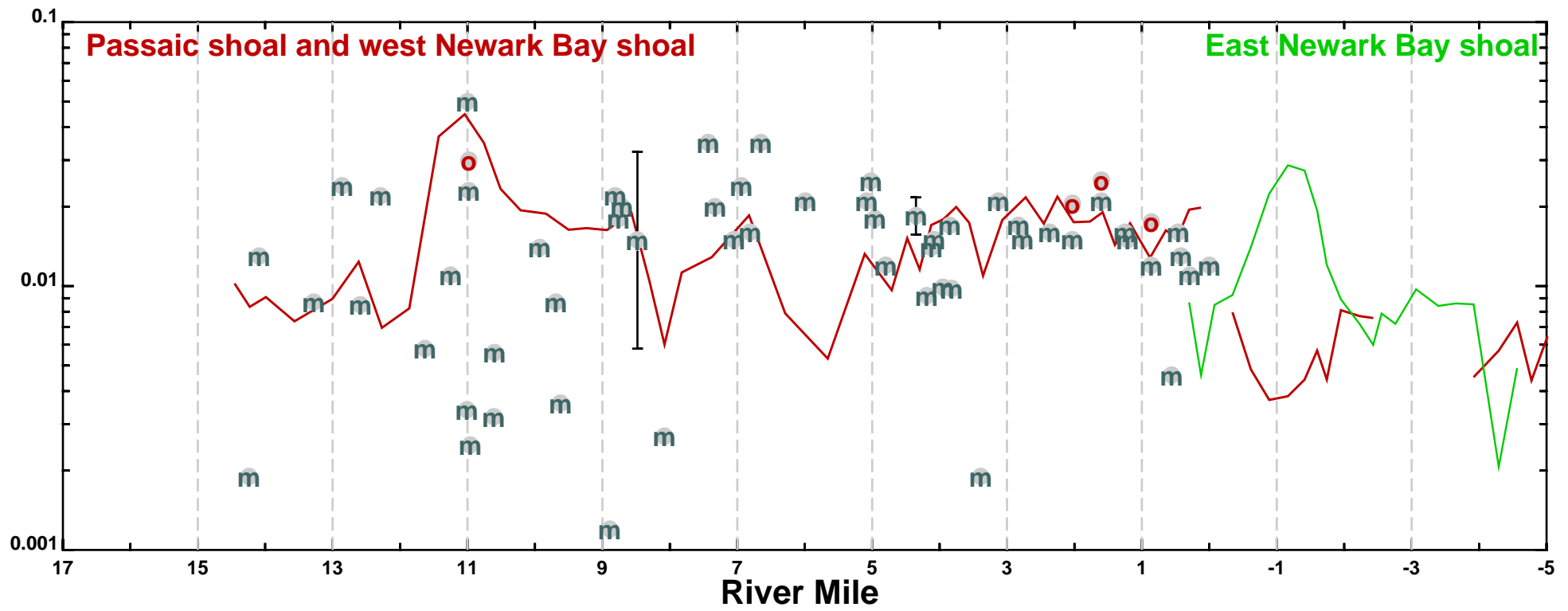
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

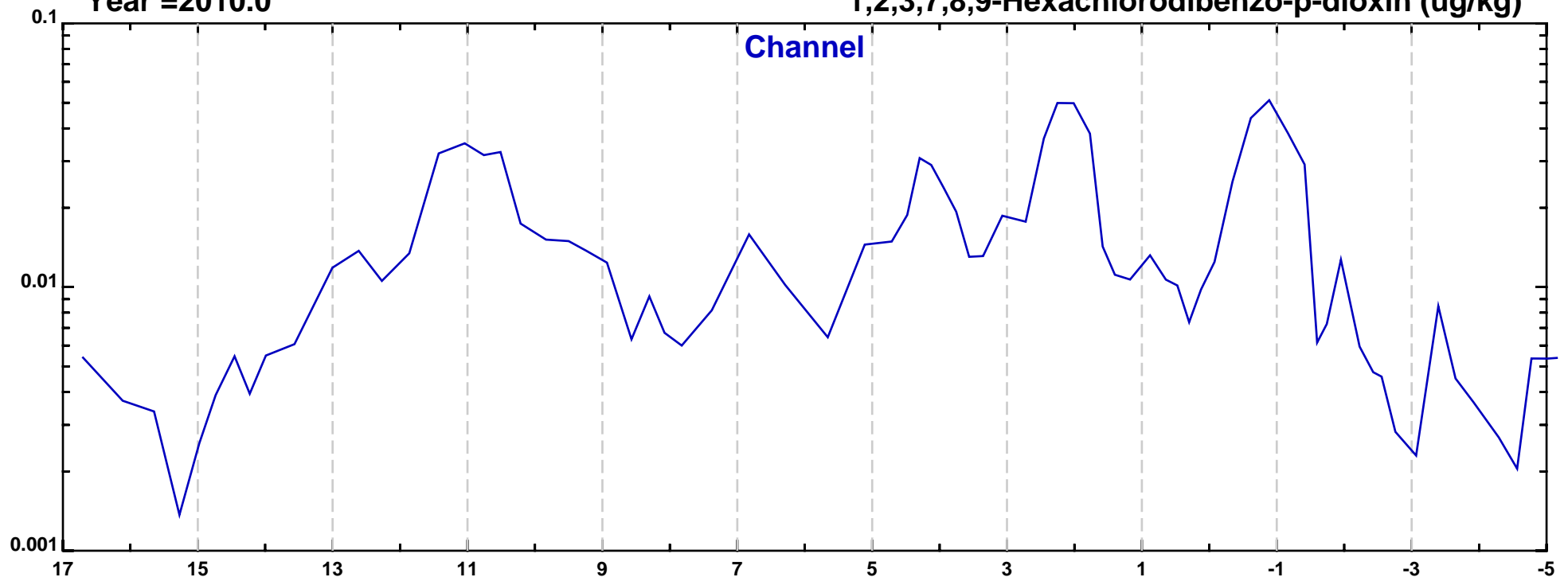


Year =2010.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

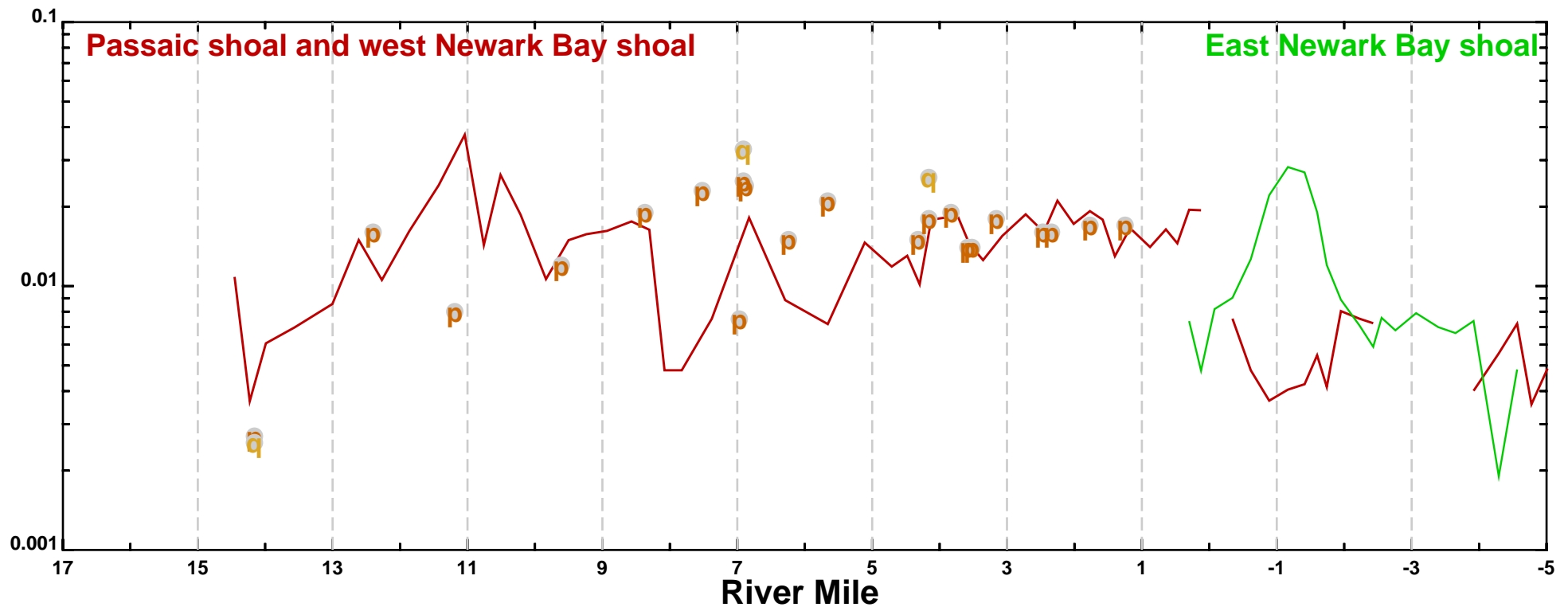
Top 15cm Conc. (ug/kg-DW)

Channel



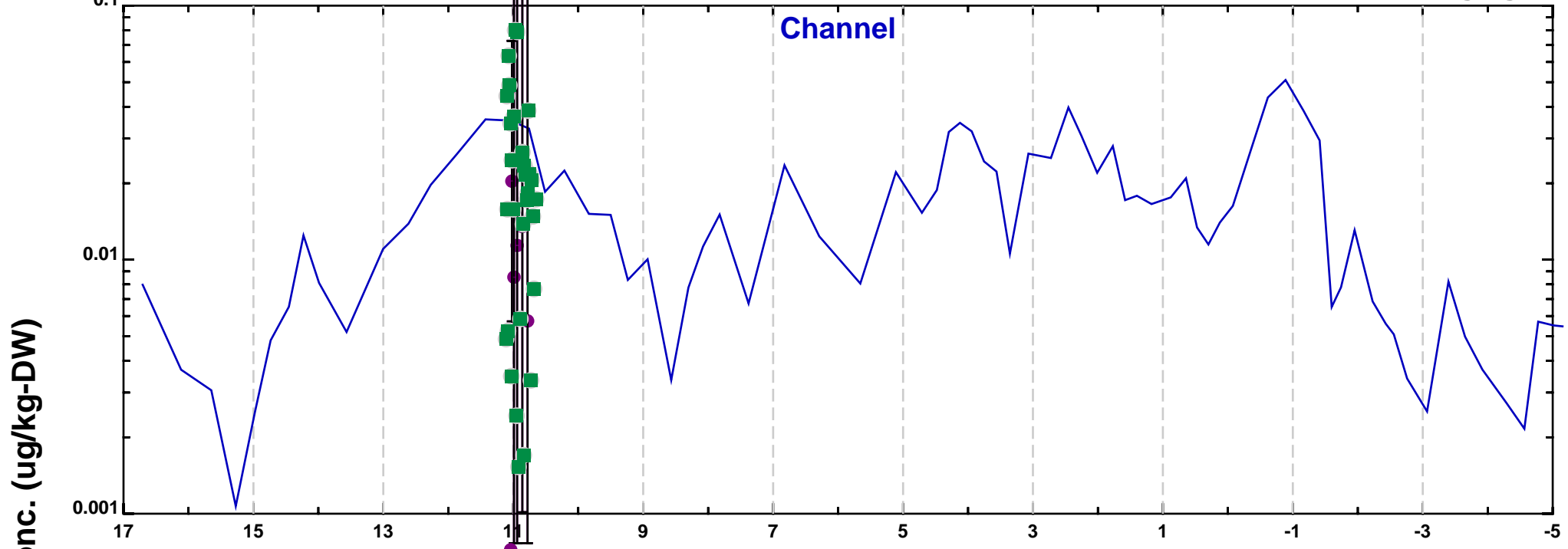
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



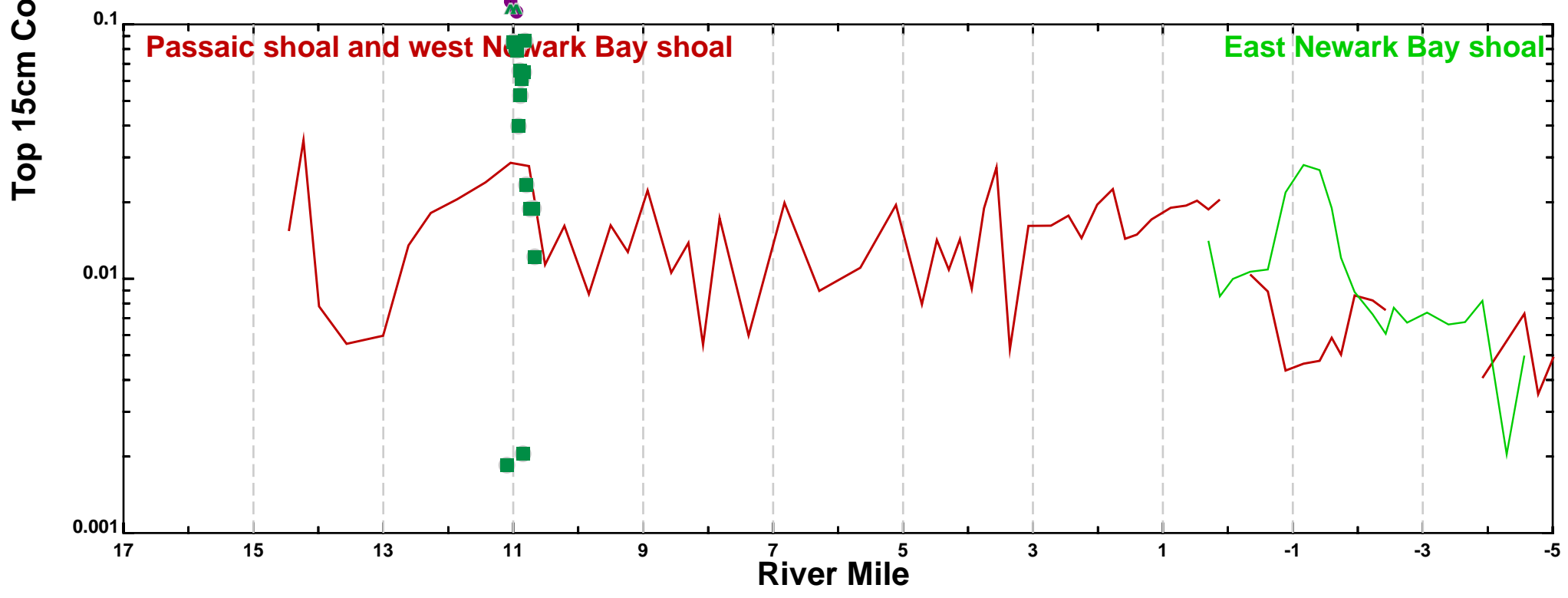
Year =2011.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

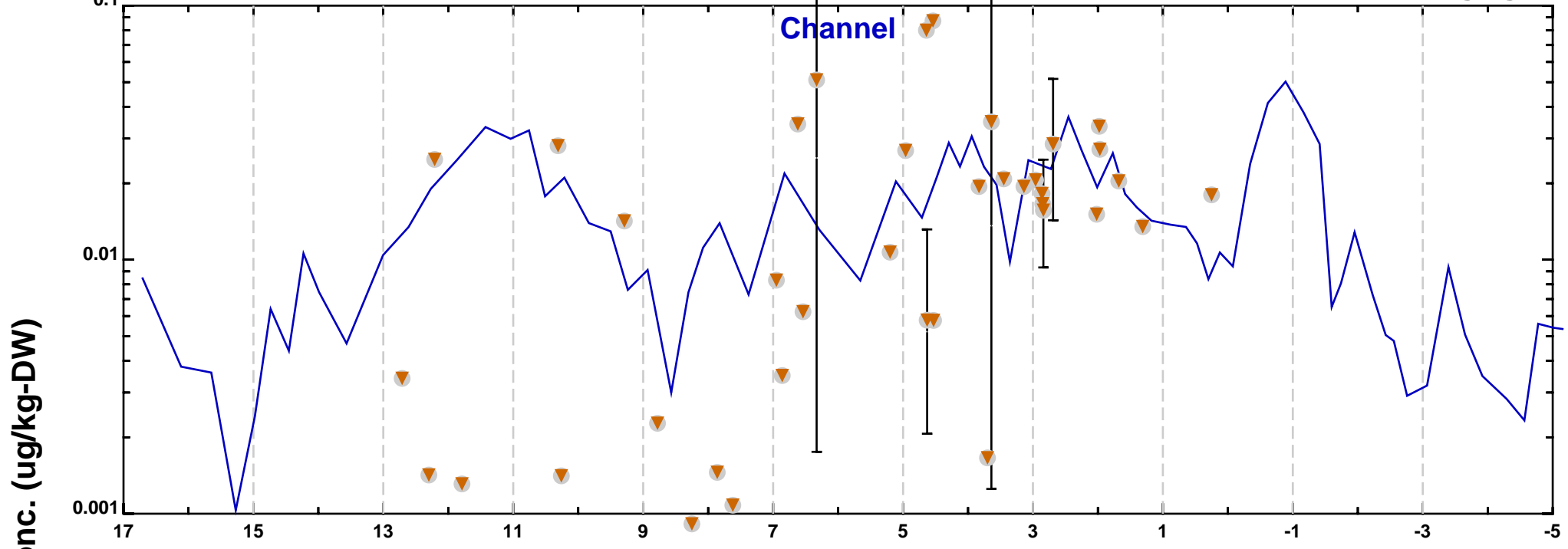
East Newark Bay shoal





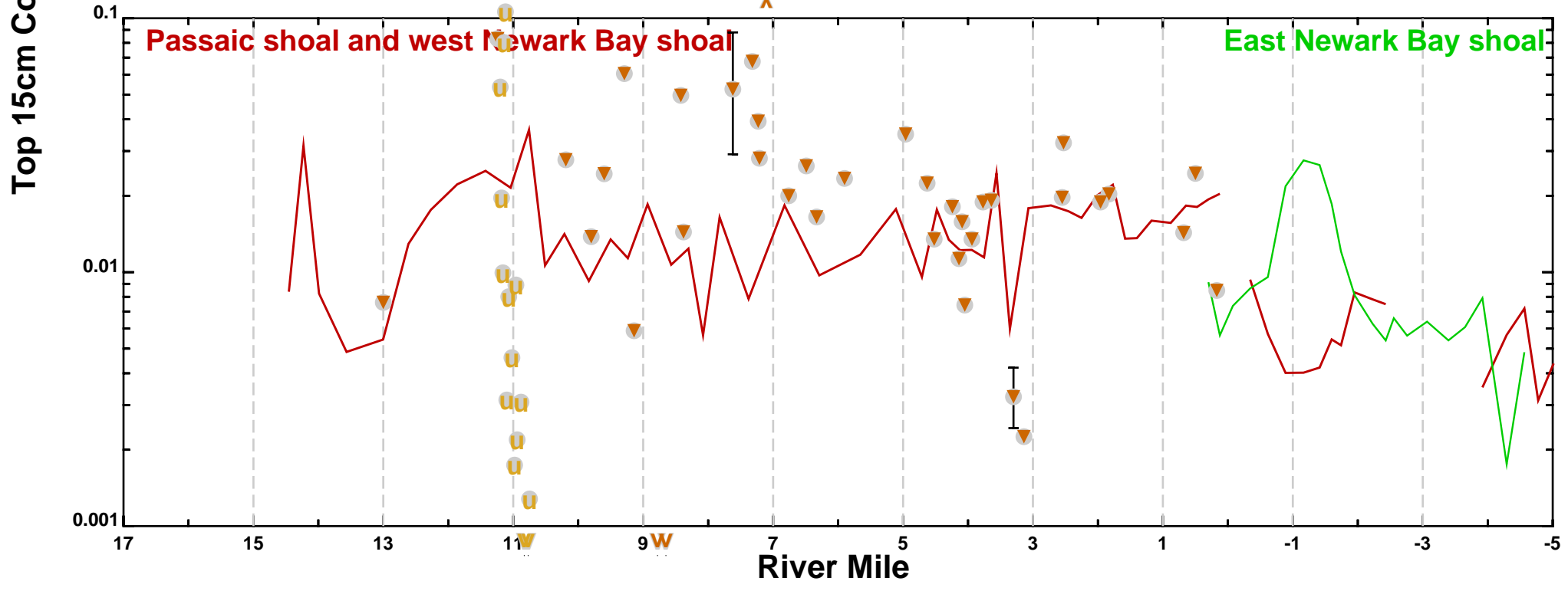
Year =2012.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

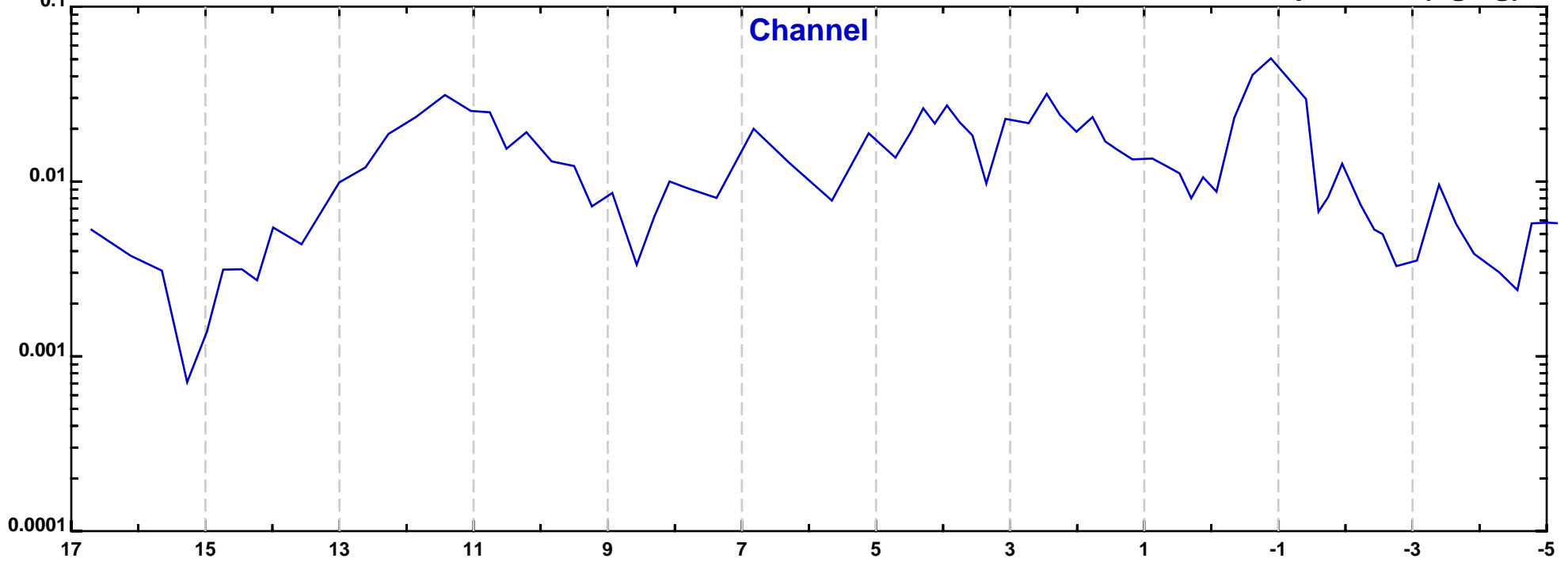


Year =2013.0

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg)

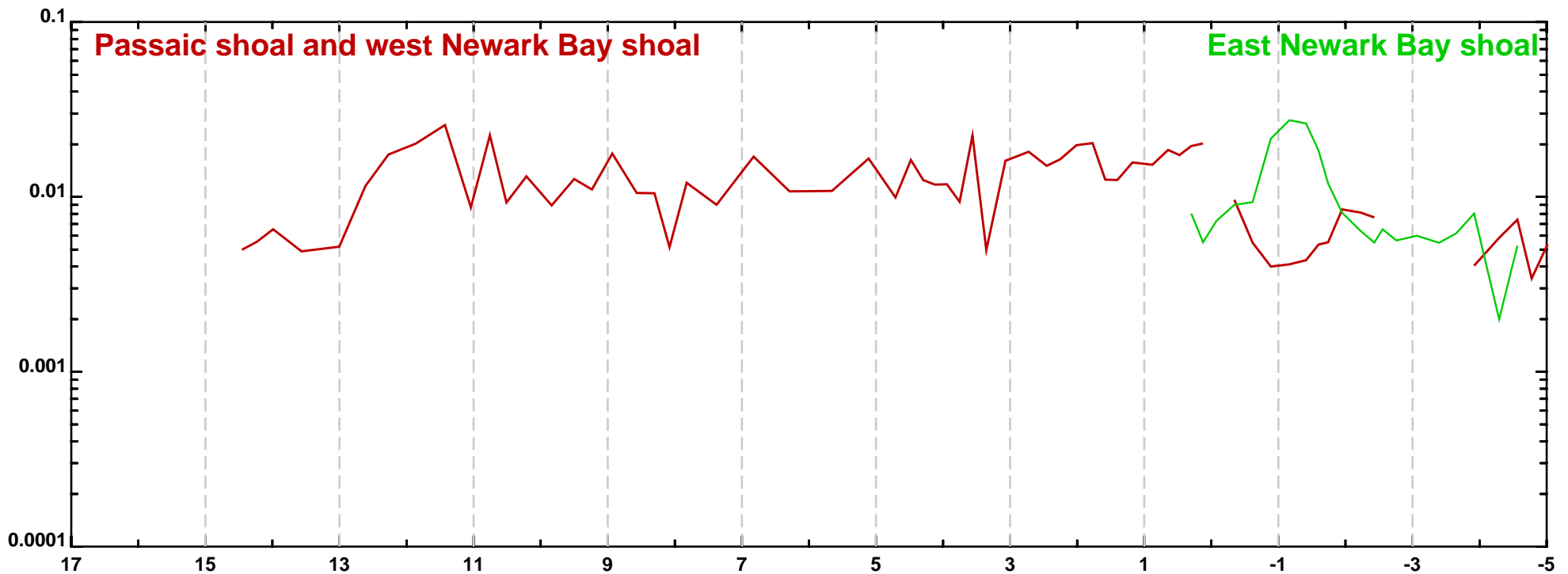
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



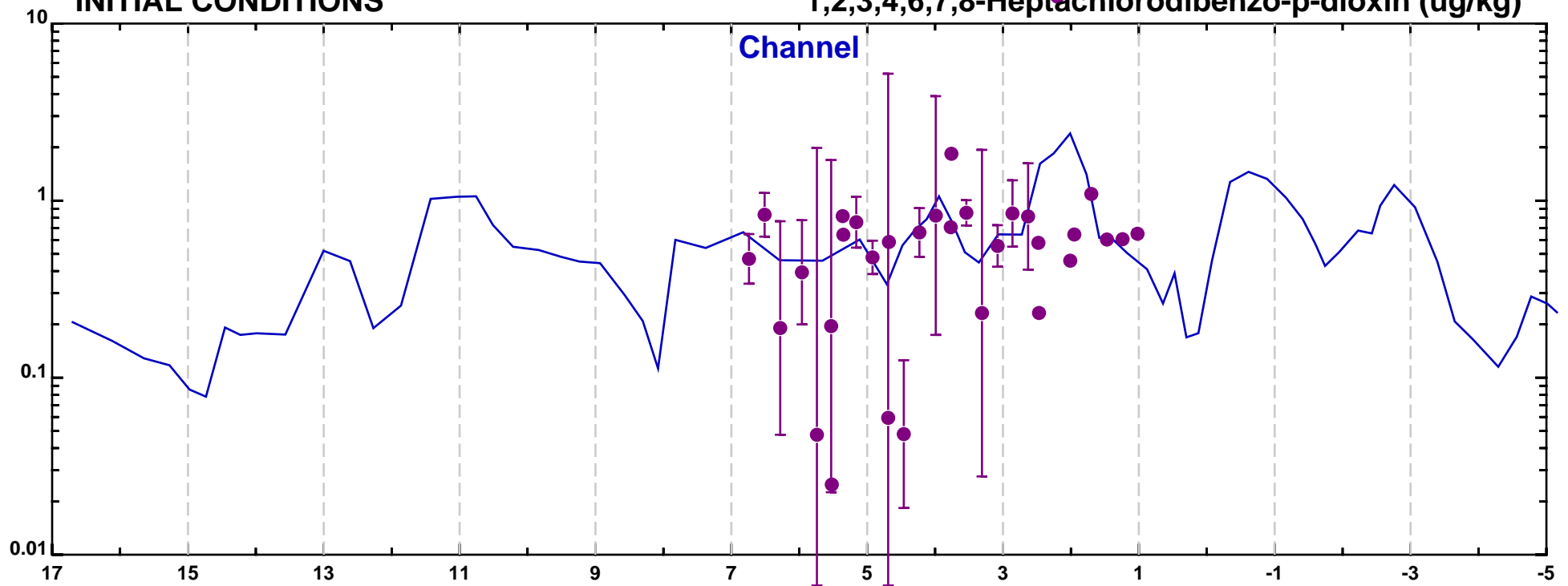
River Mile

**INITIAL CONDITIONS**

**1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)**

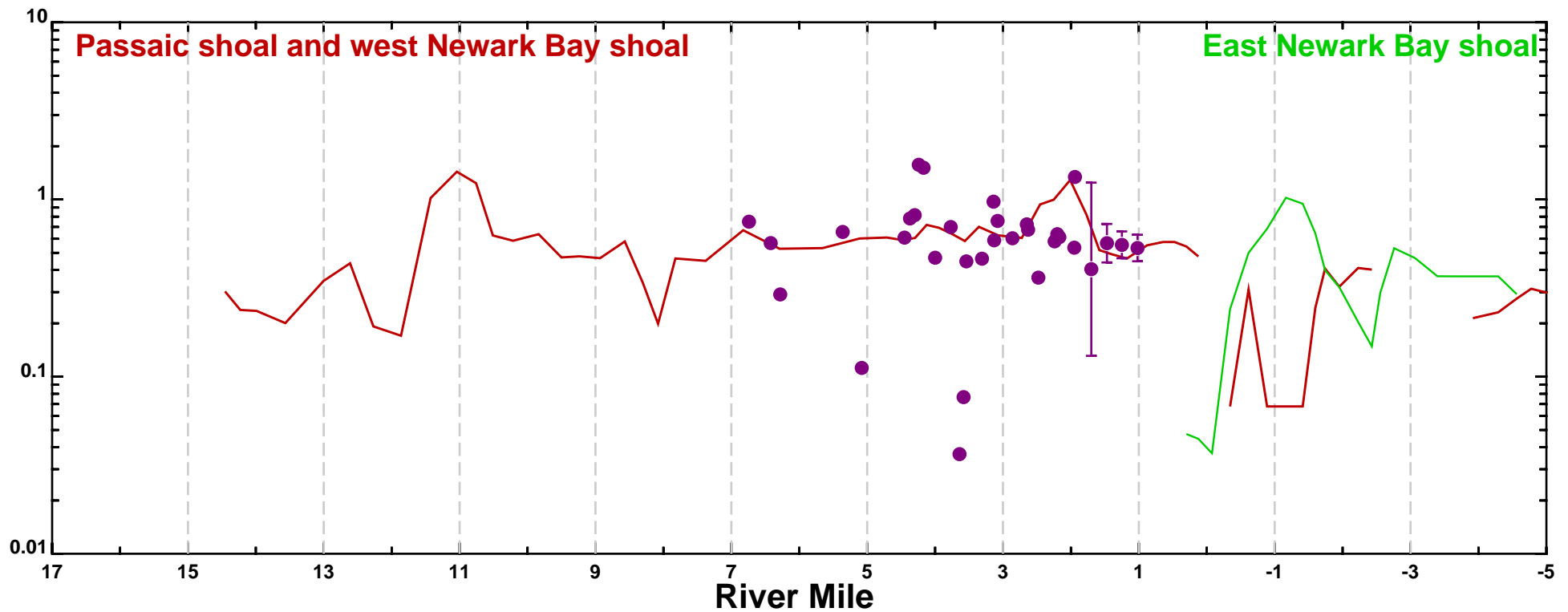
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



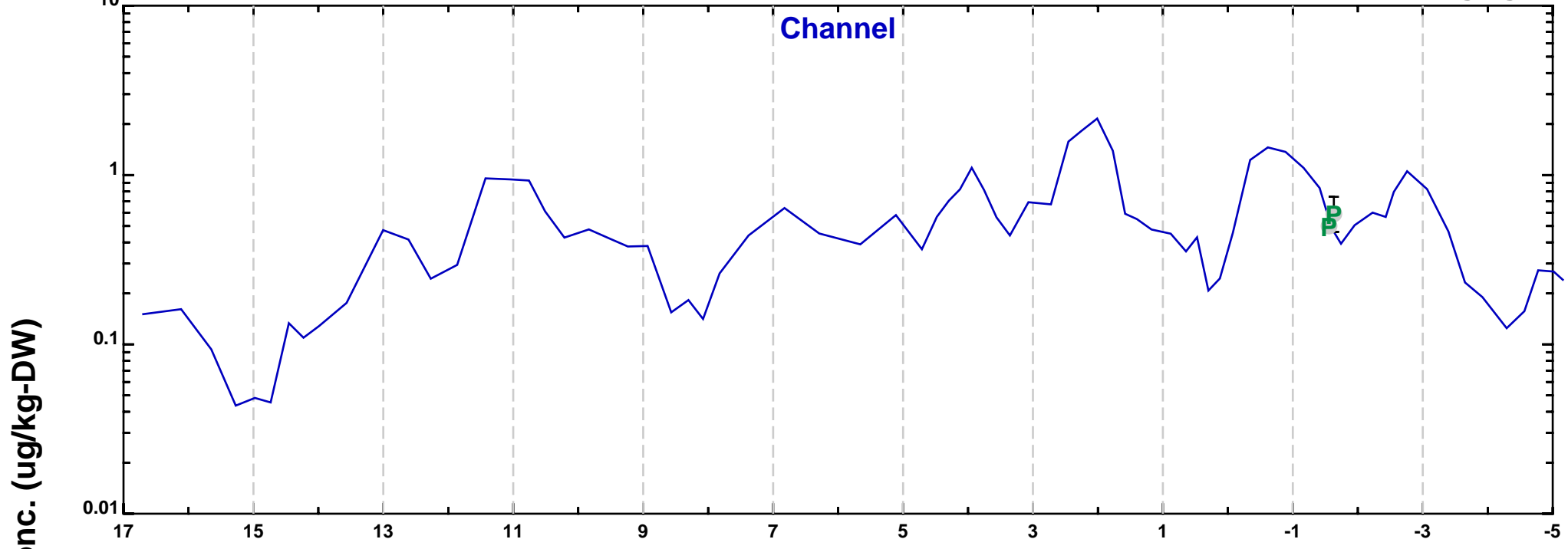
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



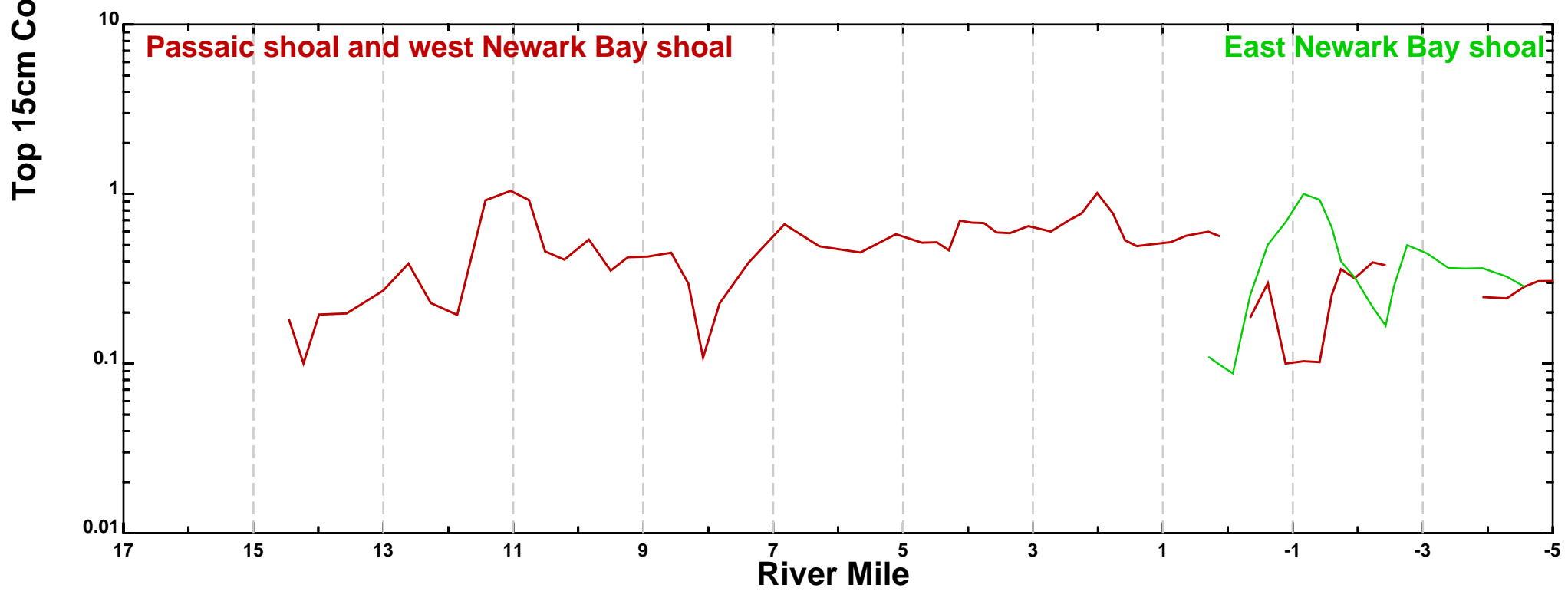
Year = 1996.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



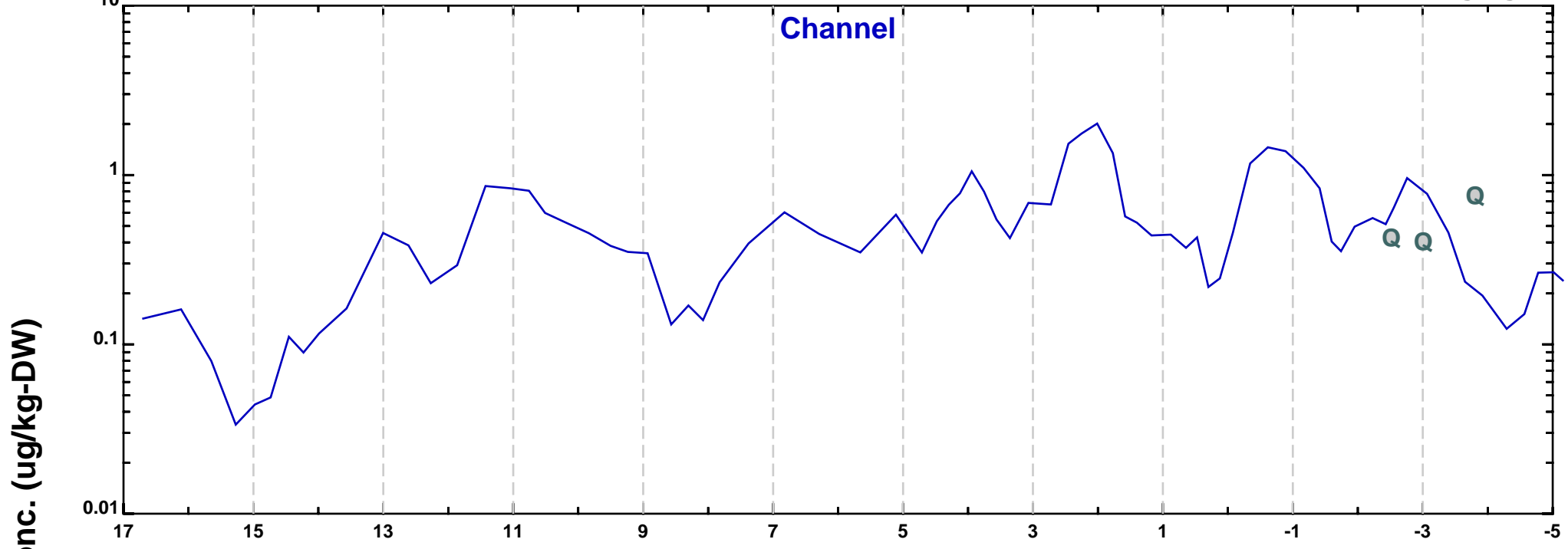
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



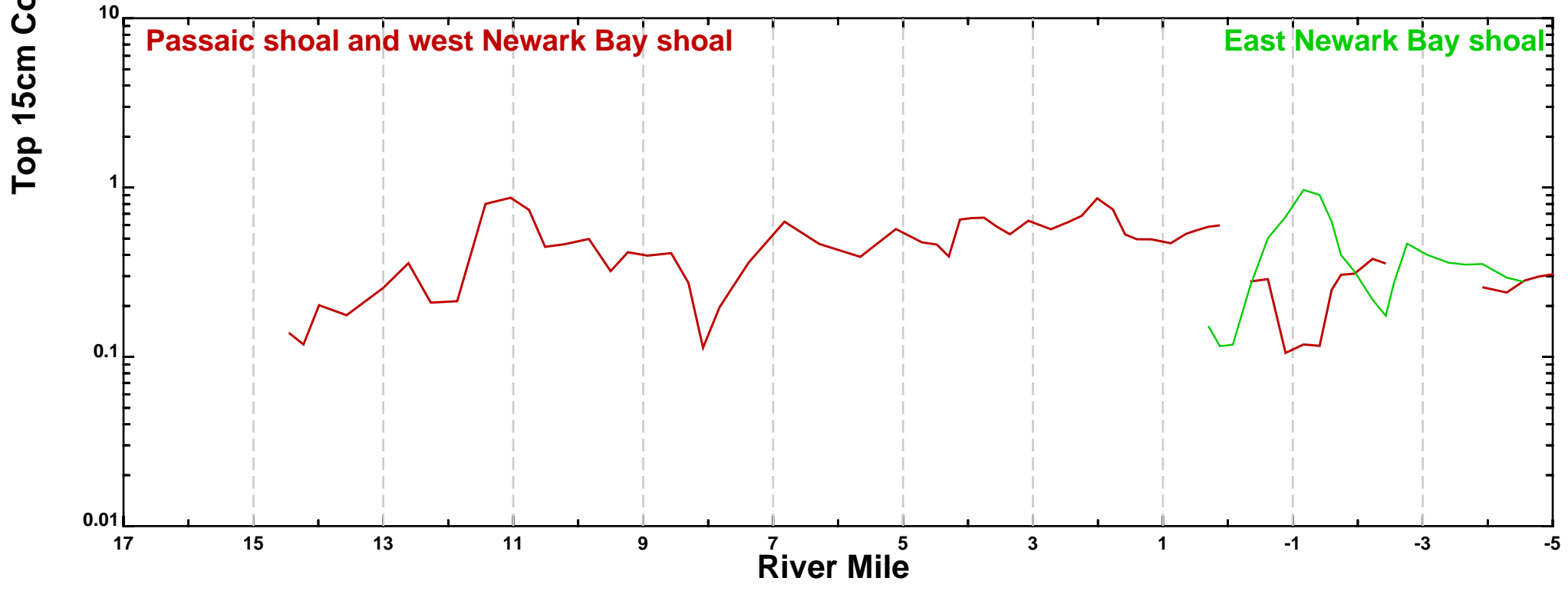
Year = 1997.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

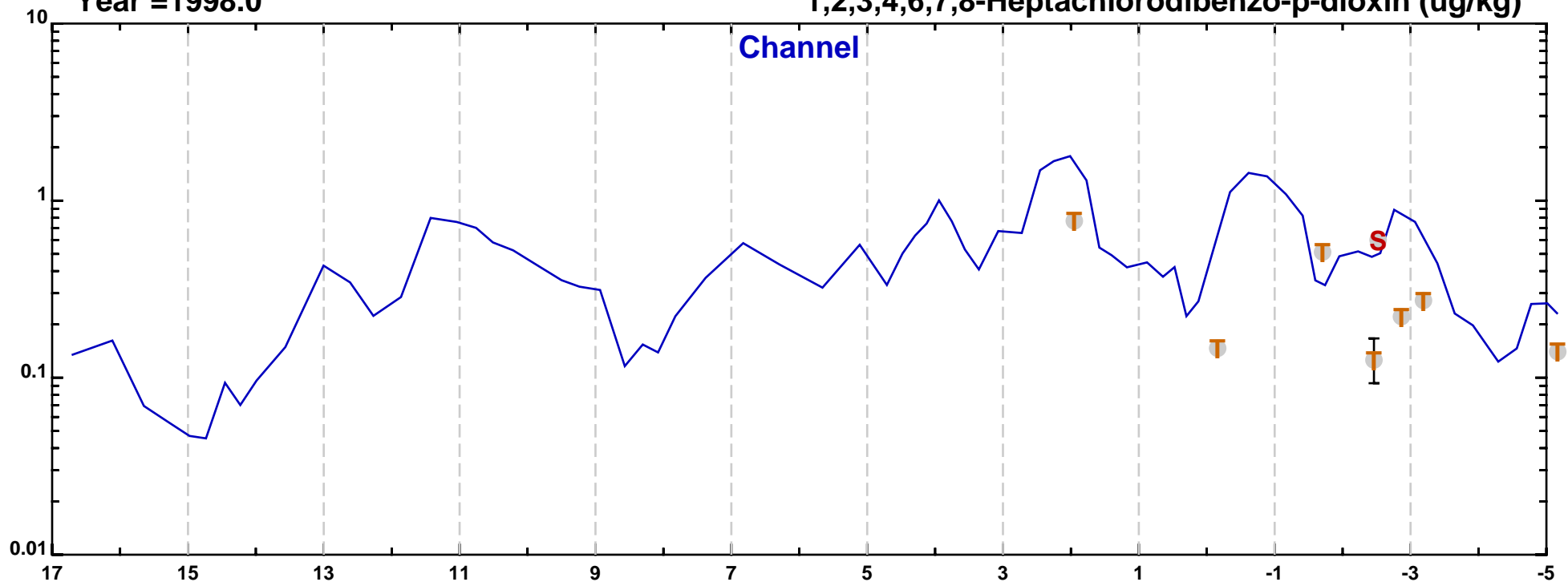


Year =1998.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

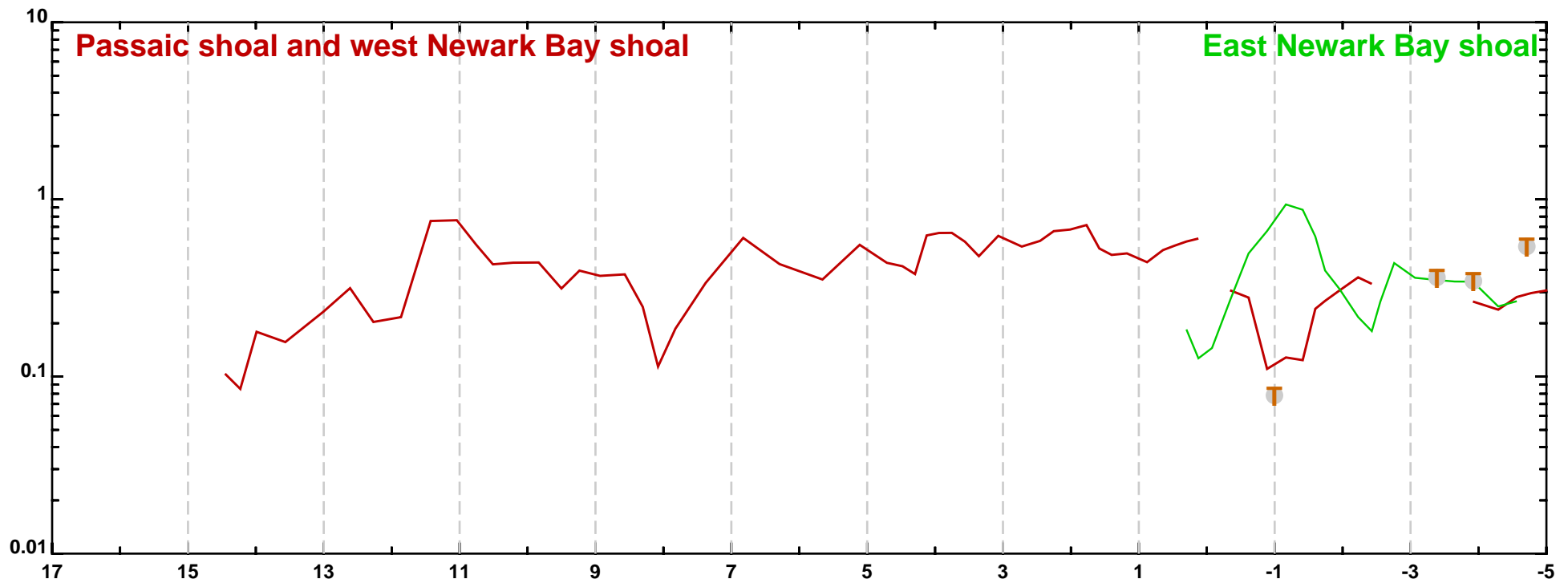
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



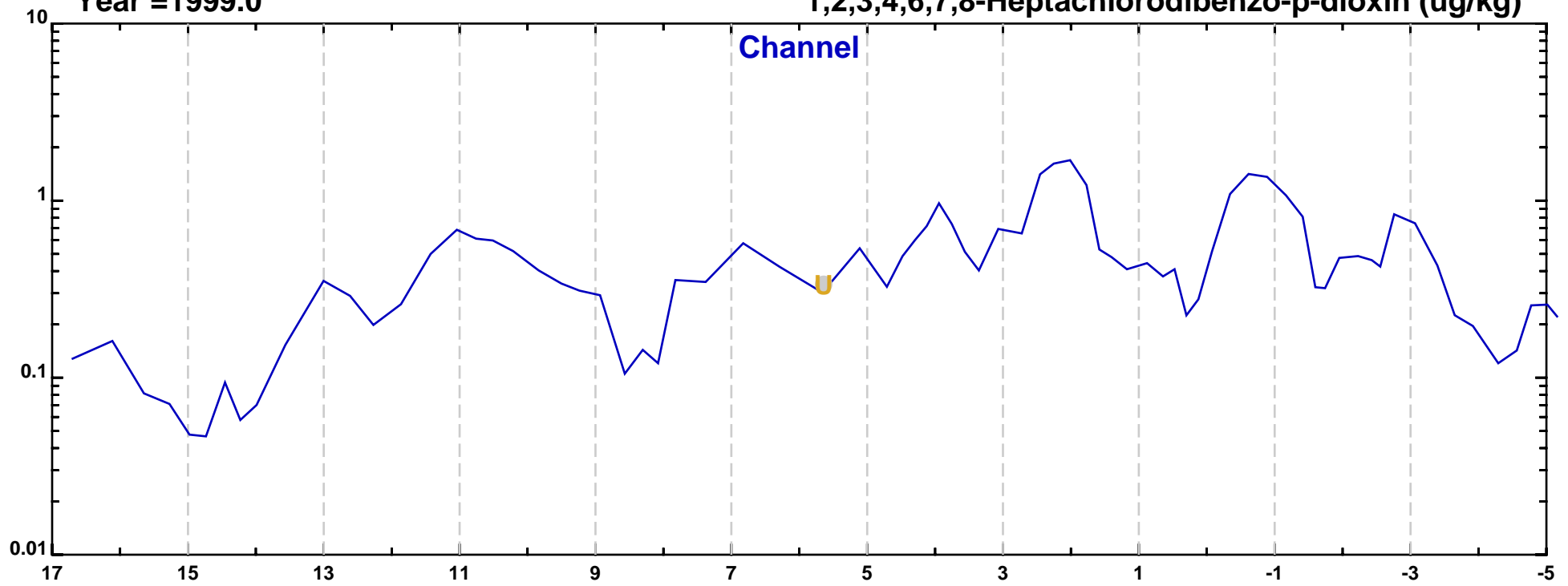
River Mile

Year = 1999.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

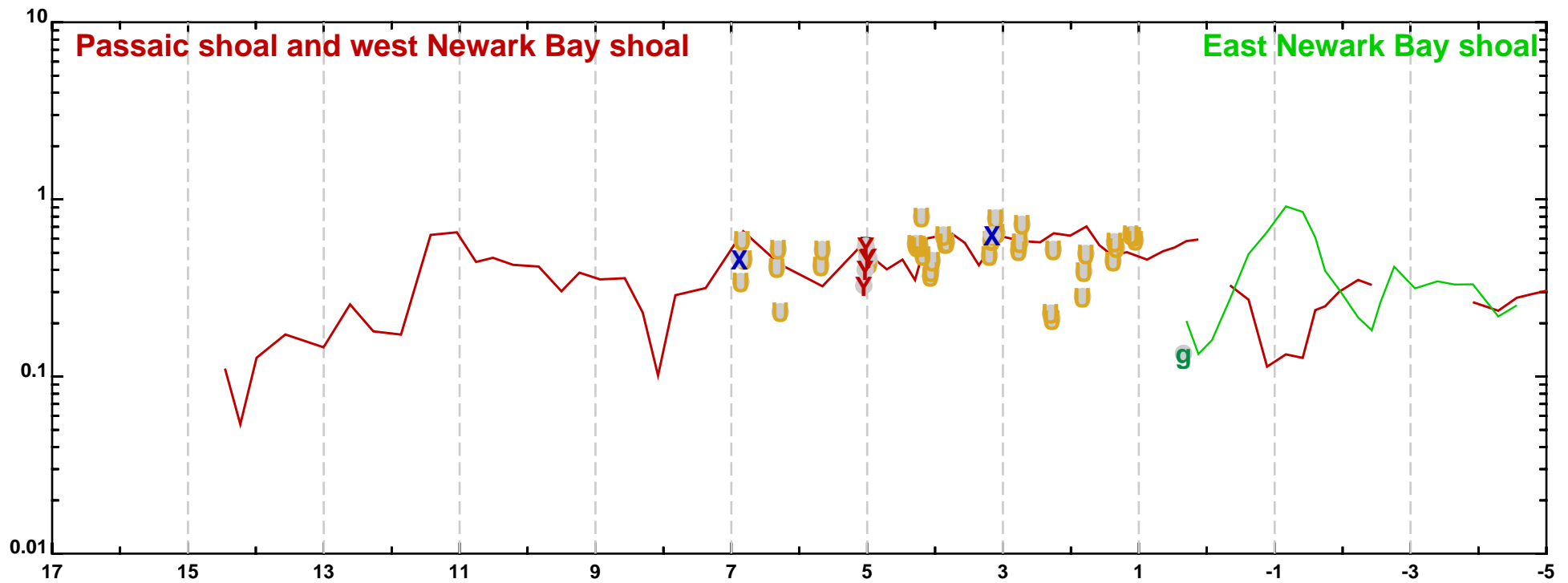
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

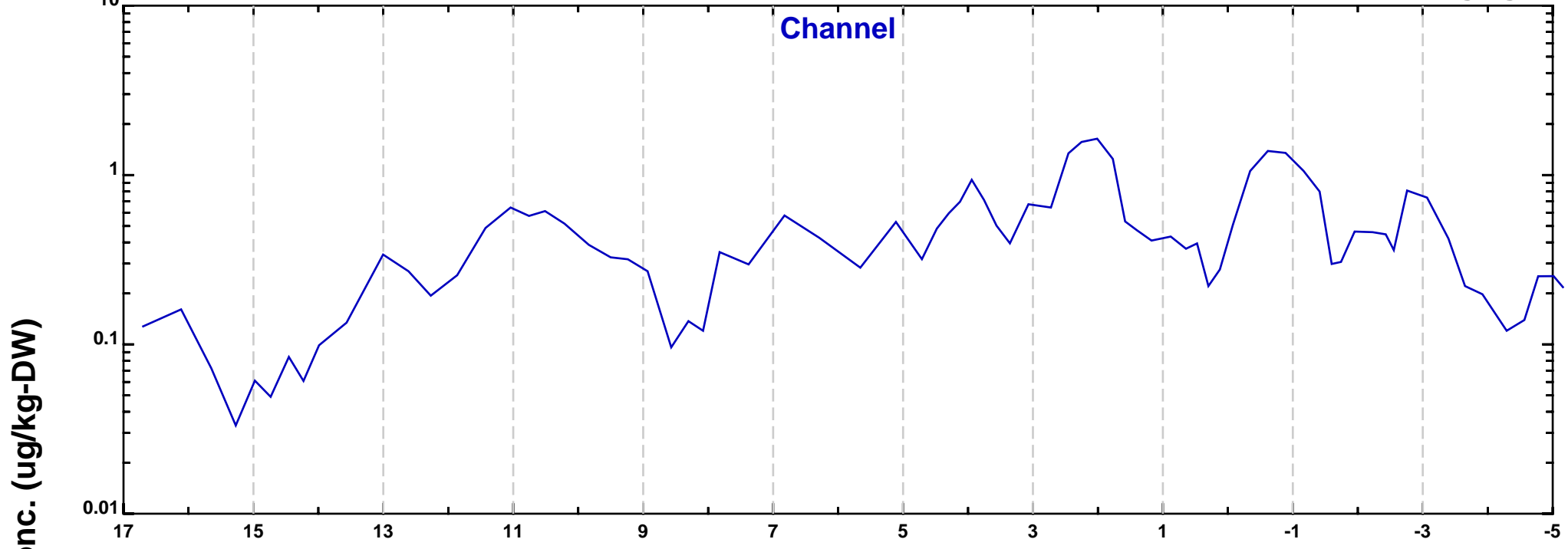
East Newark Bay shoal



River Mile

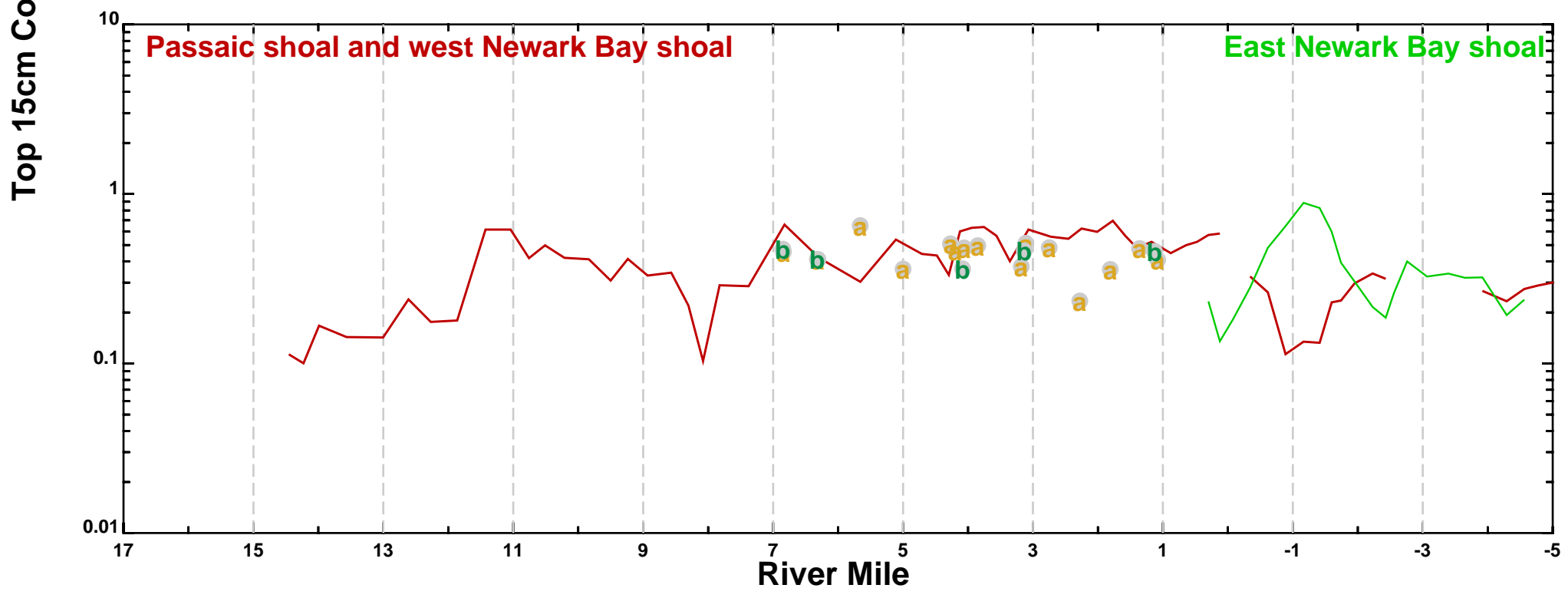
Year =2000.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

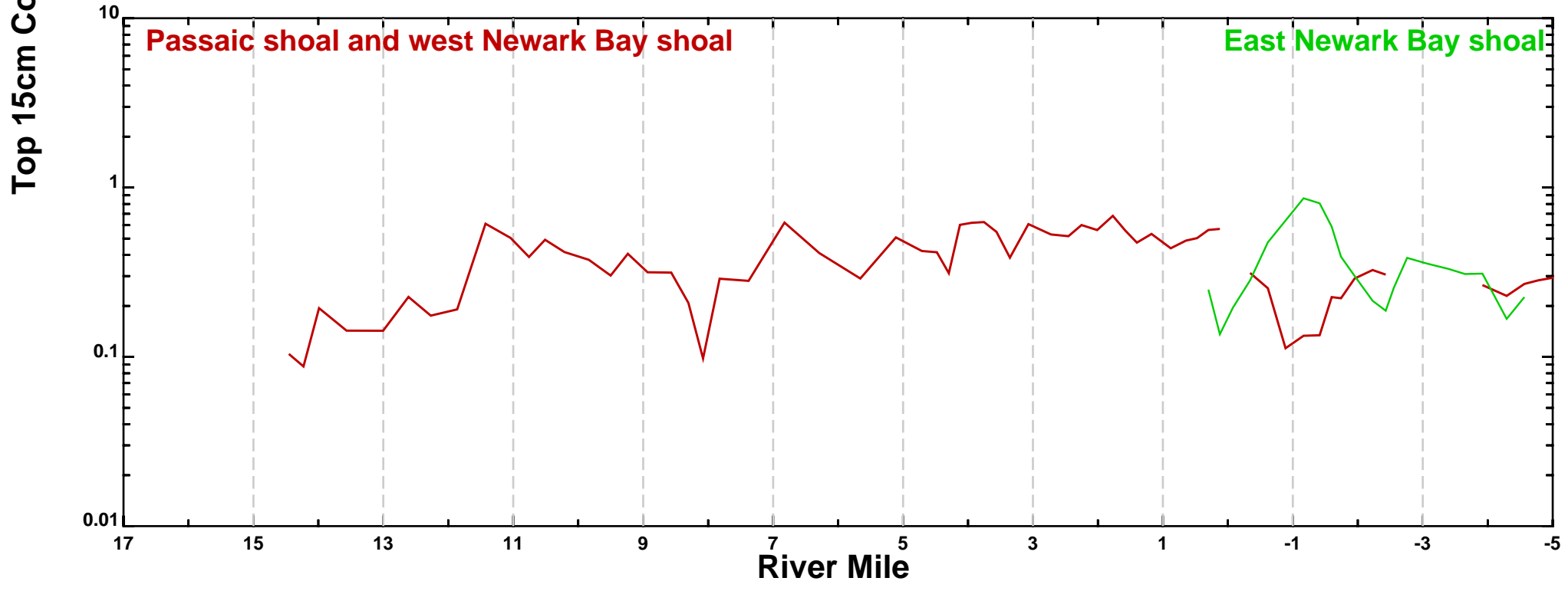
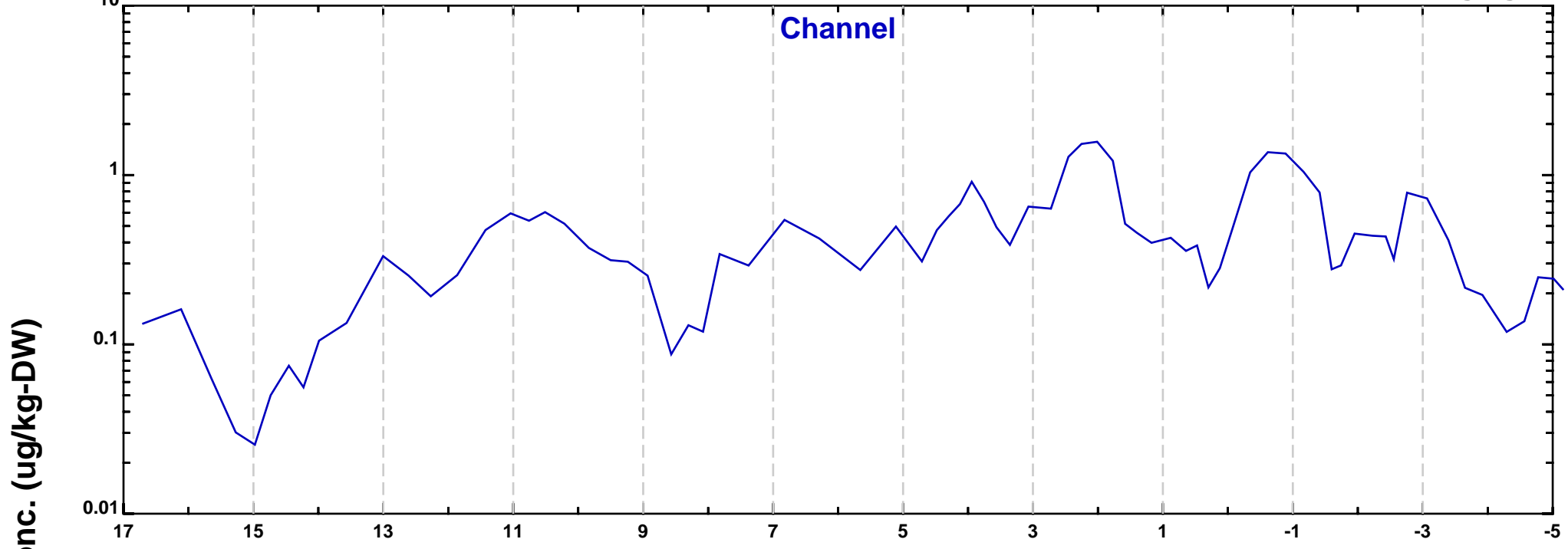
East Newark Bay shoal





Year =2001.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

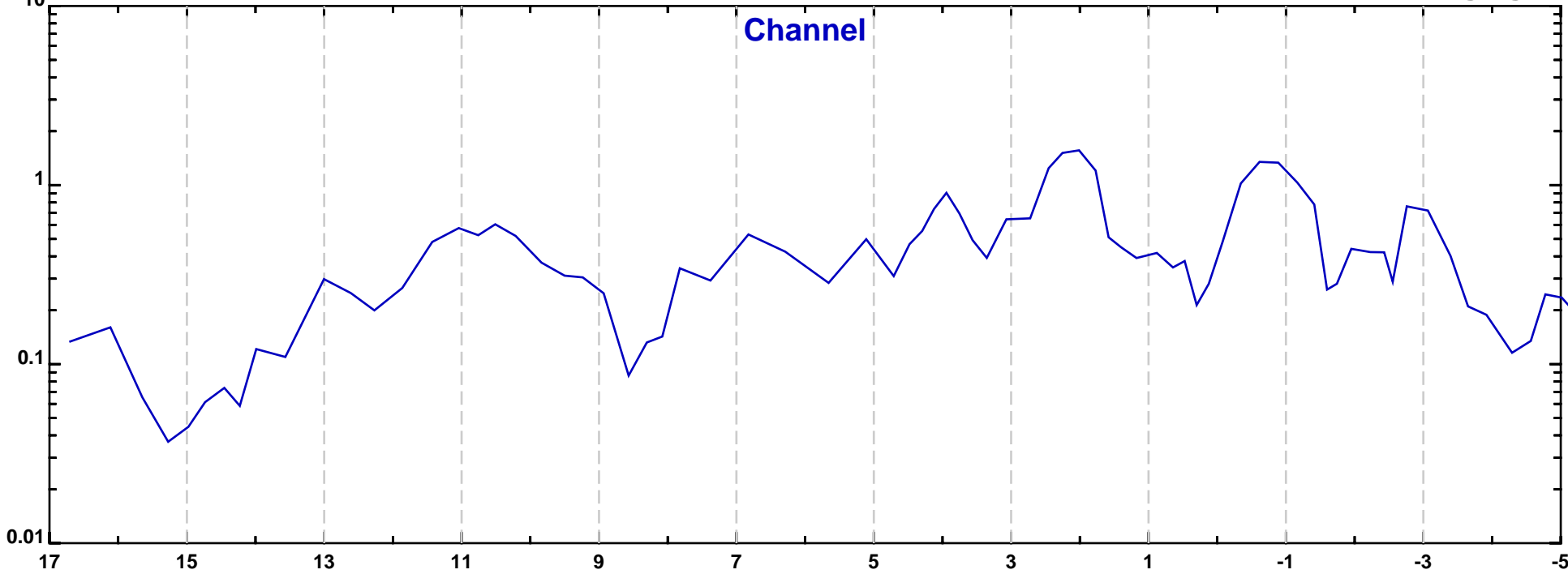


Year =2002.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

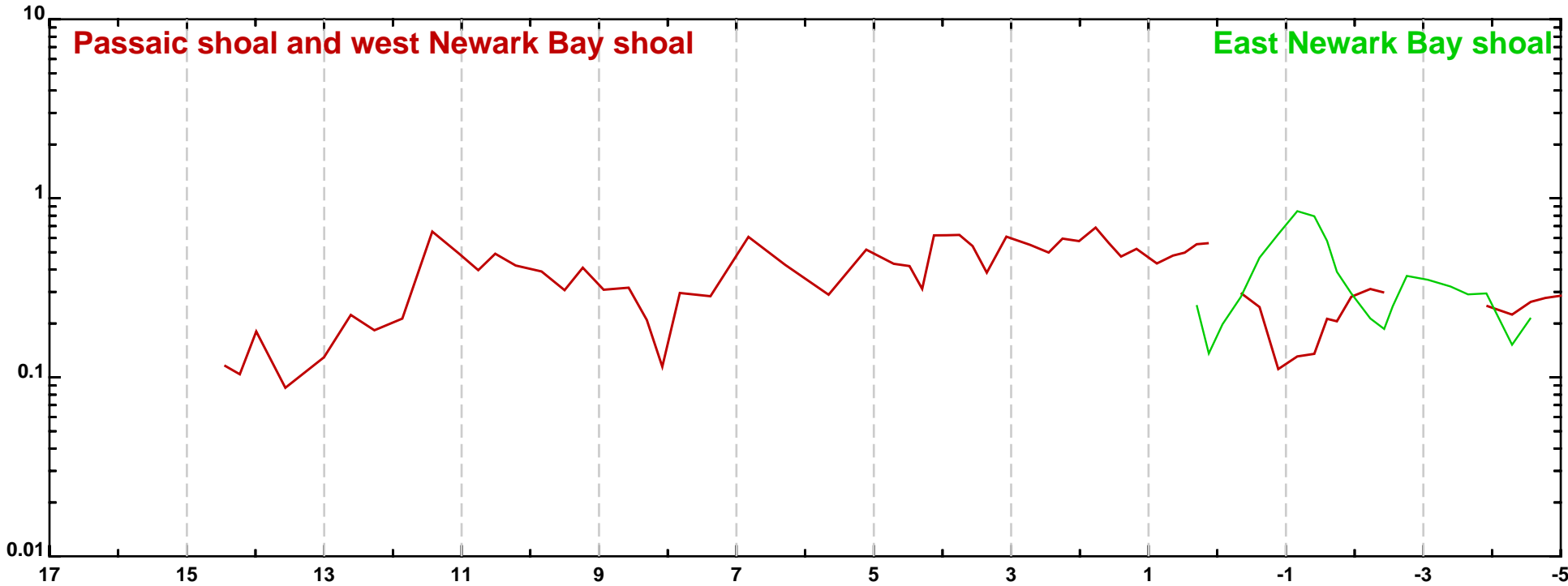
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



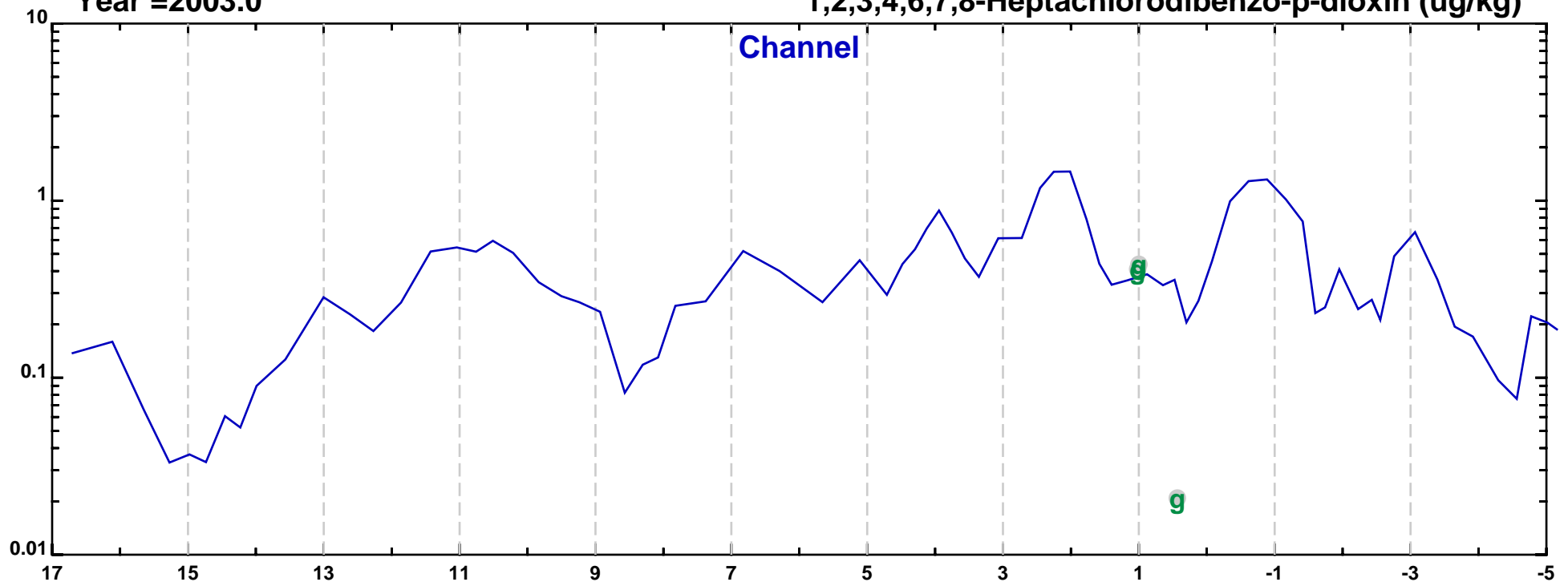
River Mile

Year =2003.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

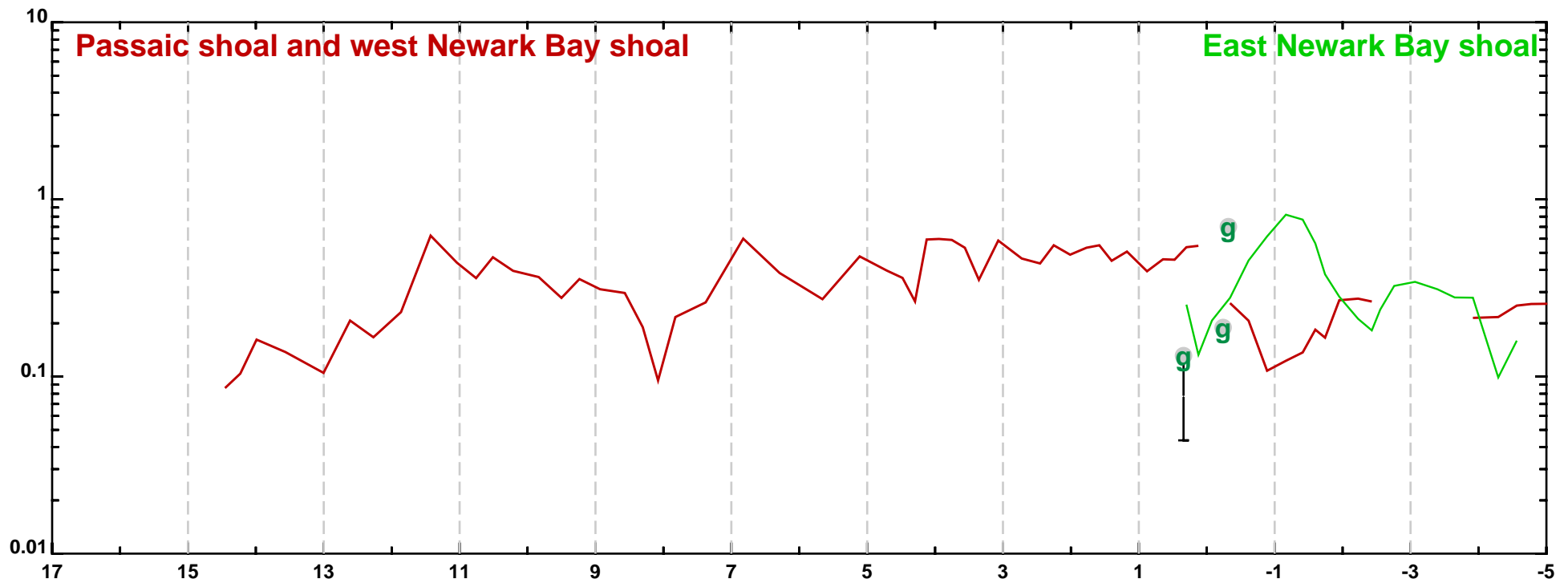
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

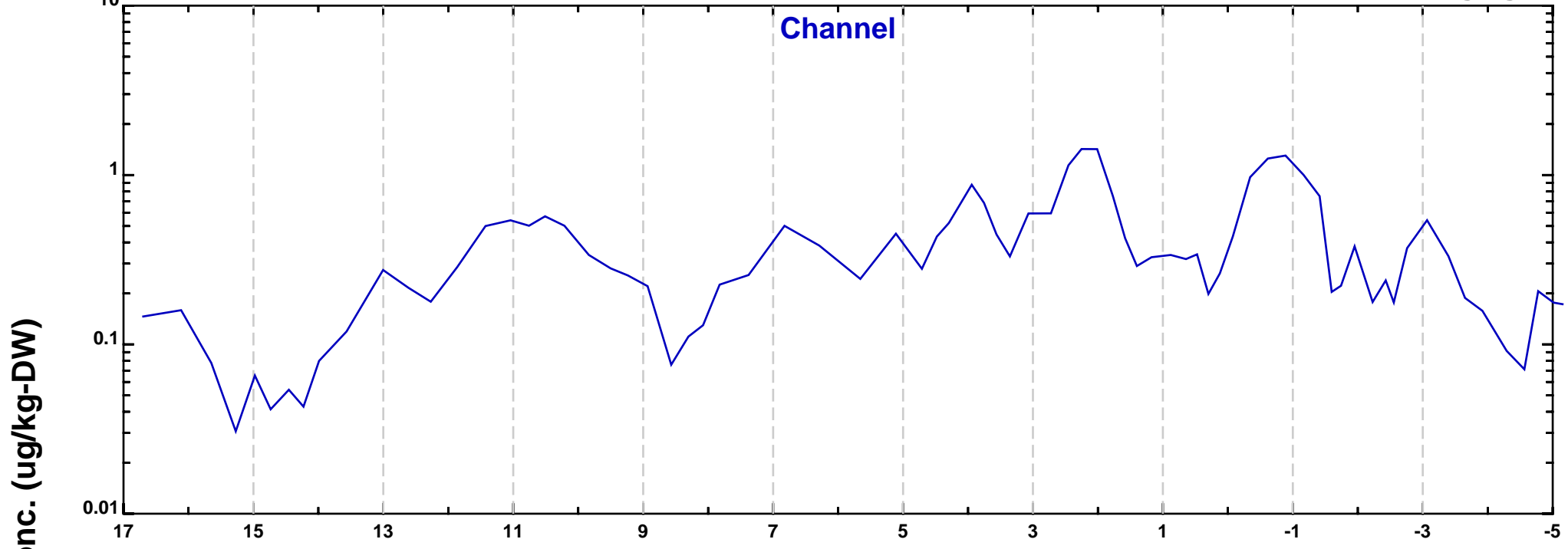
East Newark Bay shoal



River Mile

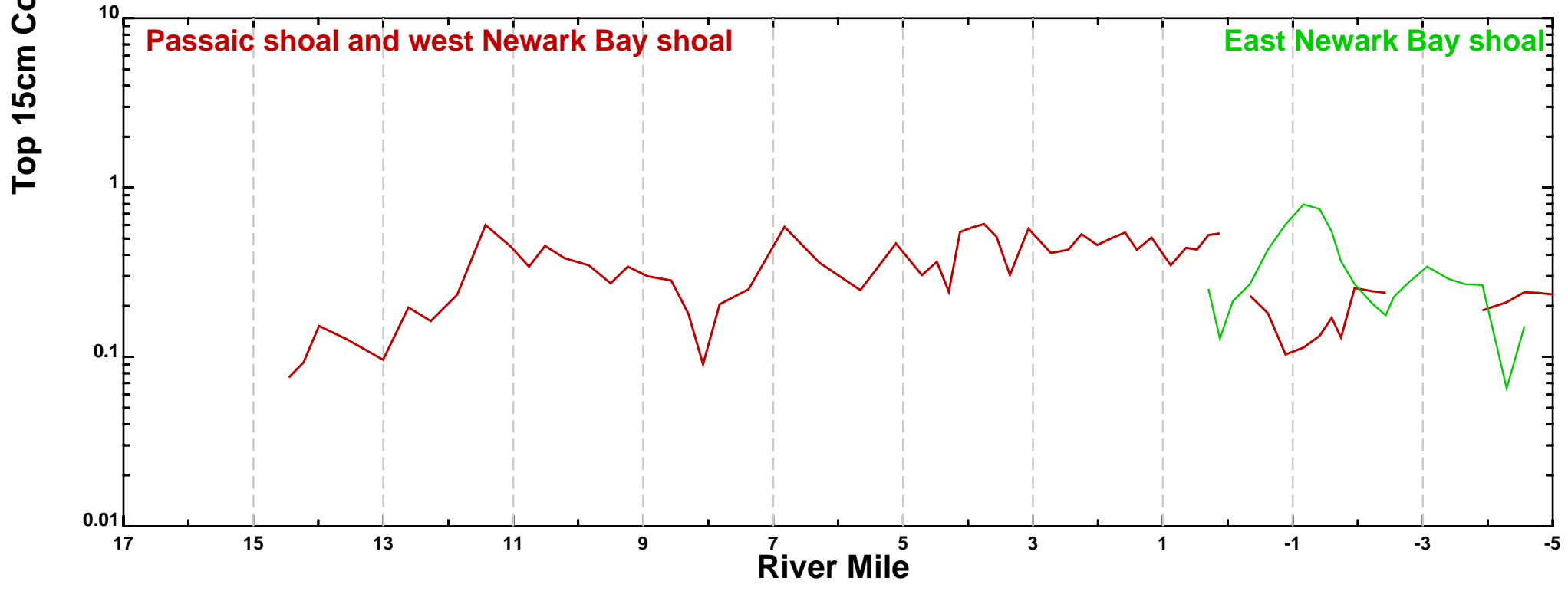
Year =2004.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



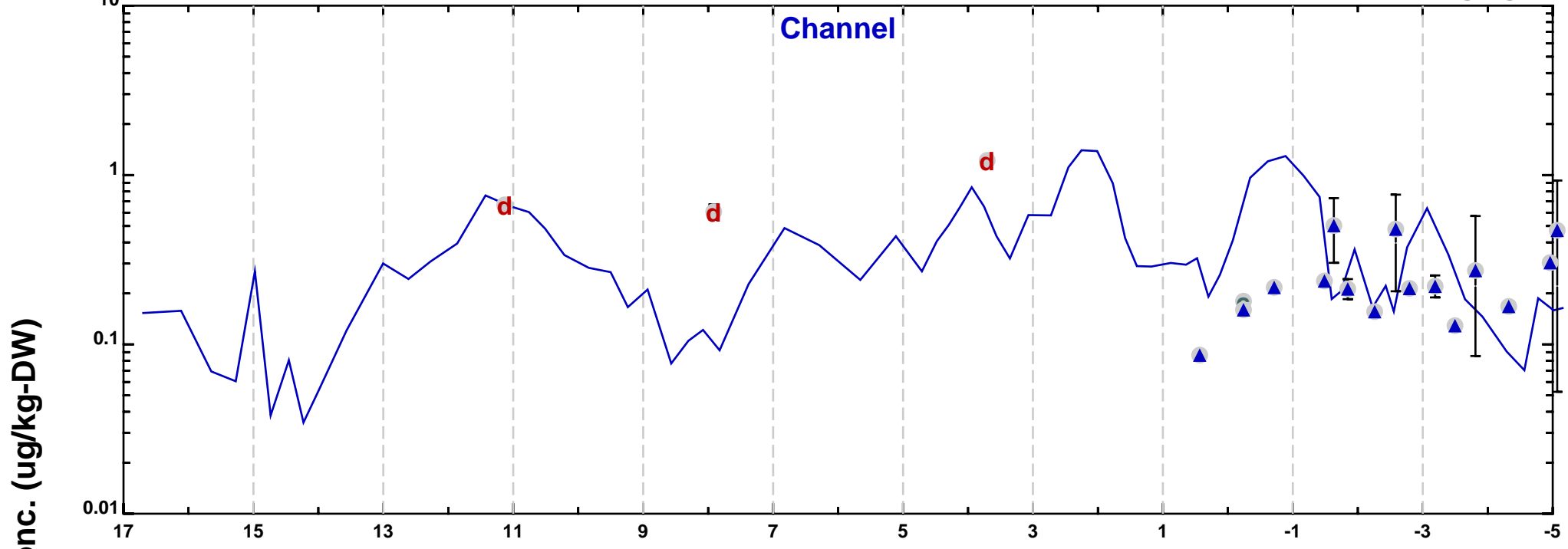
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



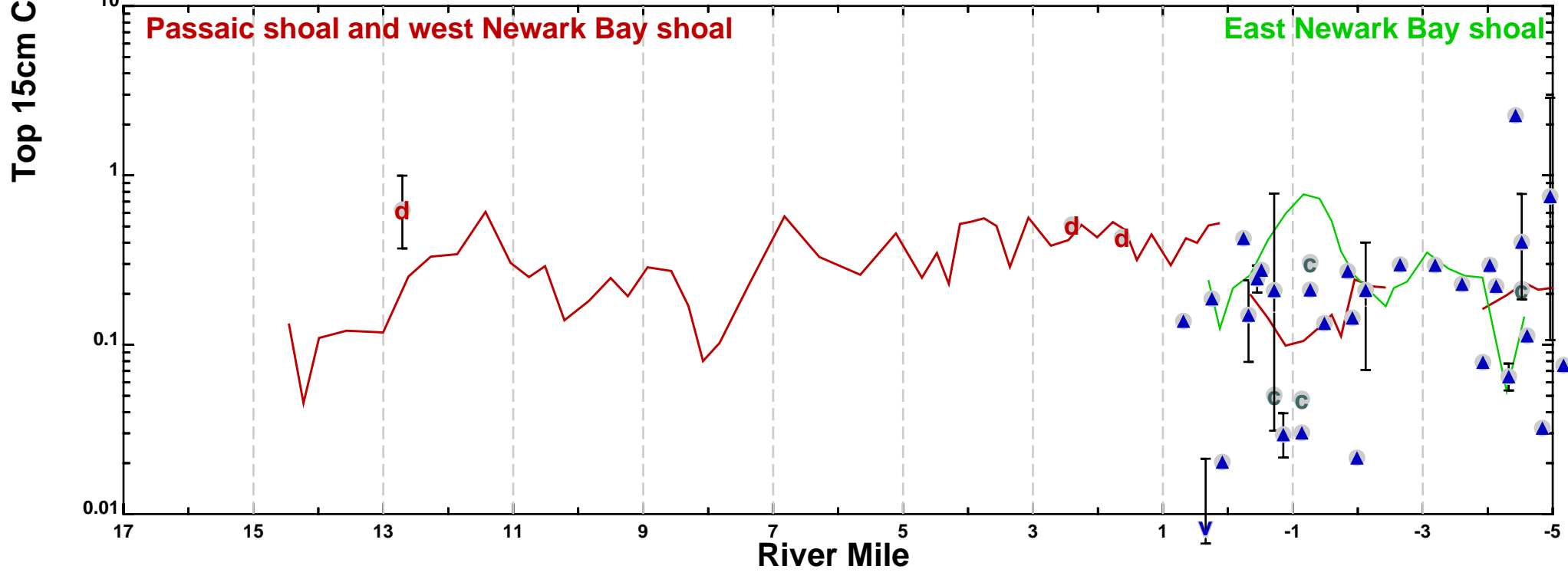
Year =2005.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



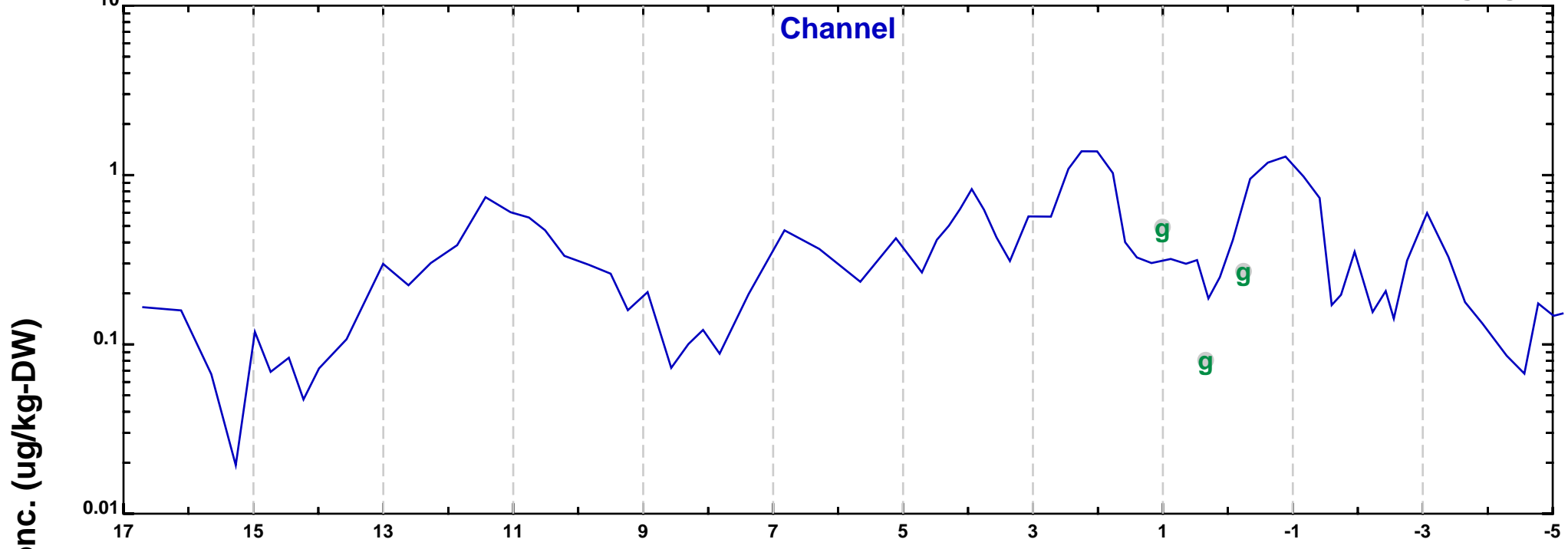
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



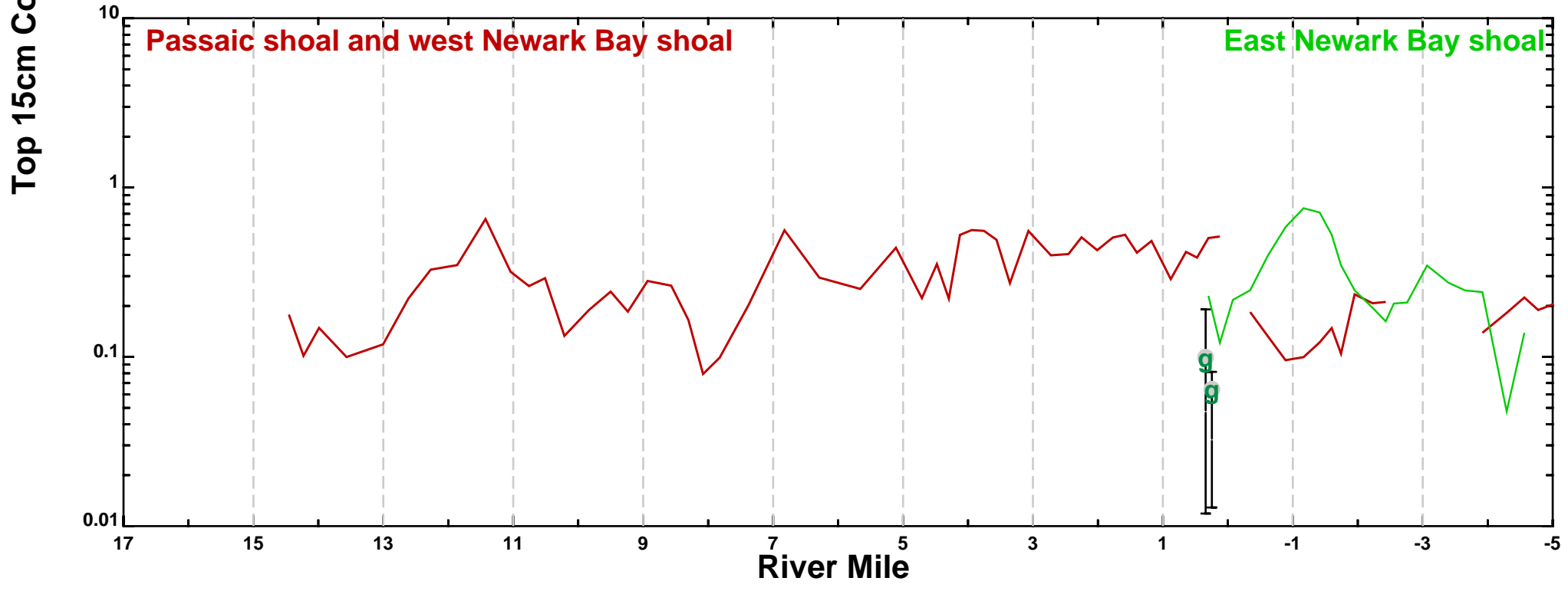
Year =2006.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

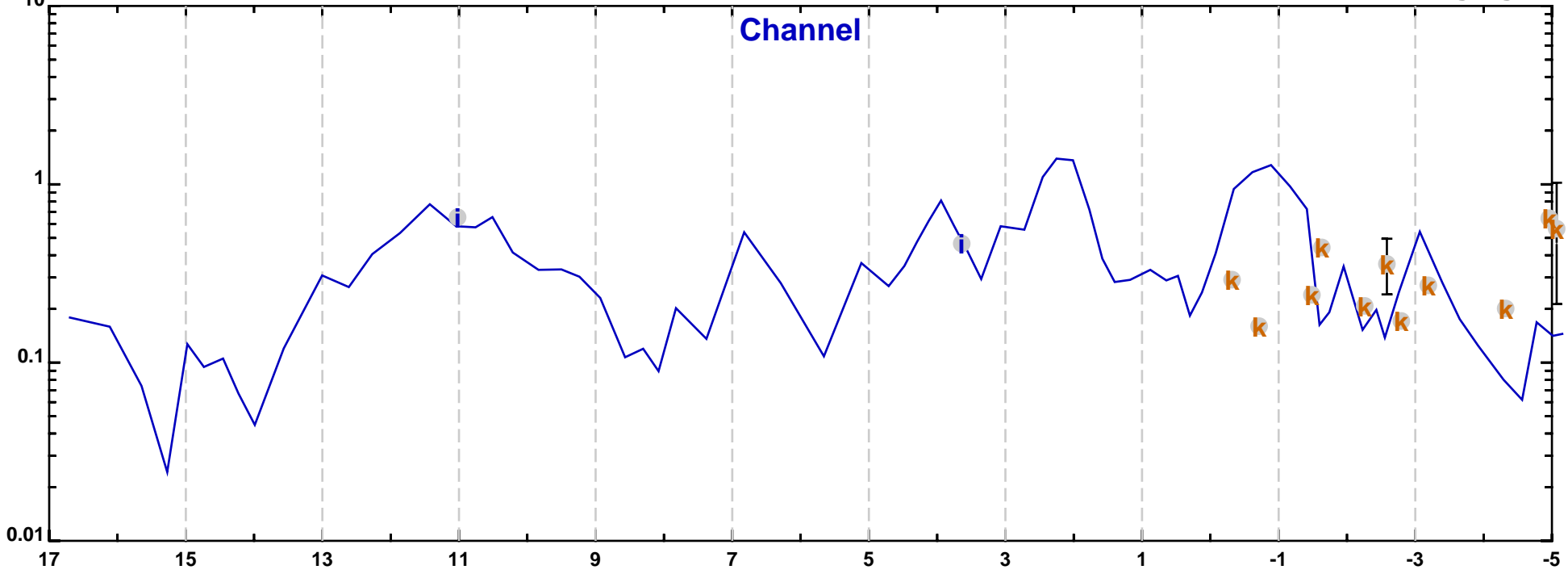


Year =2007.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

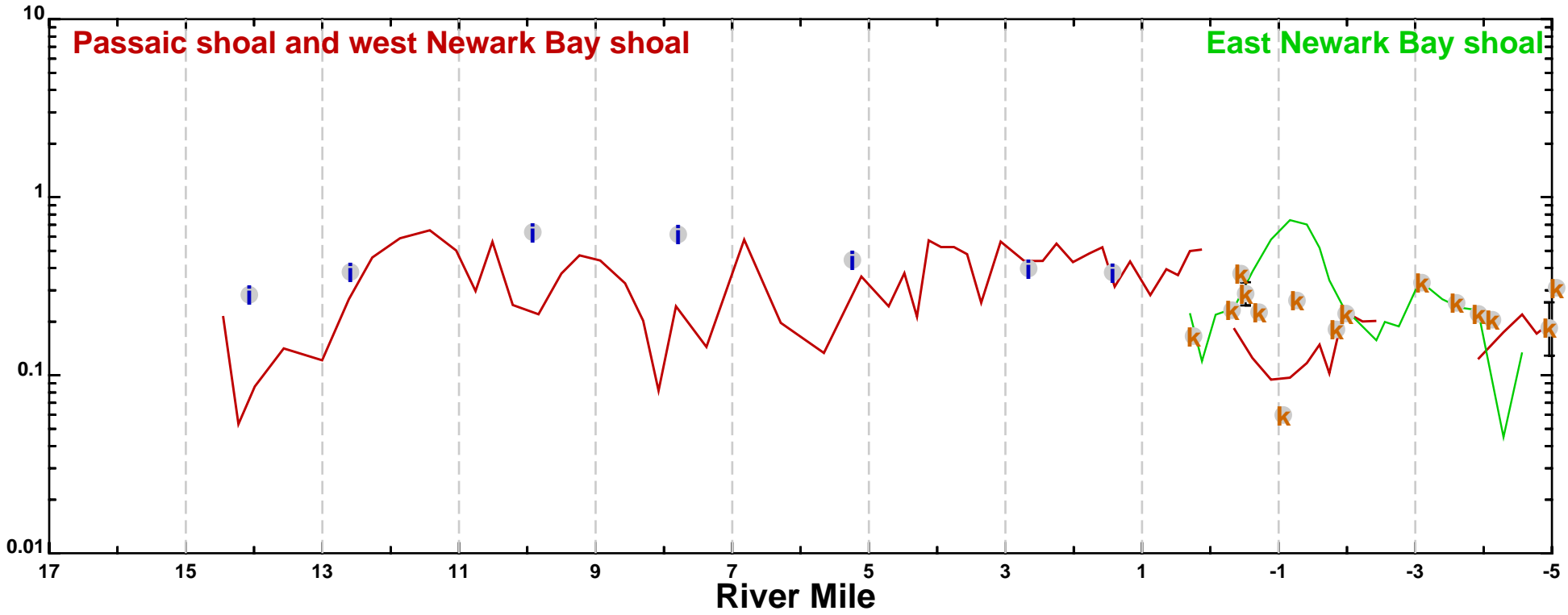
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



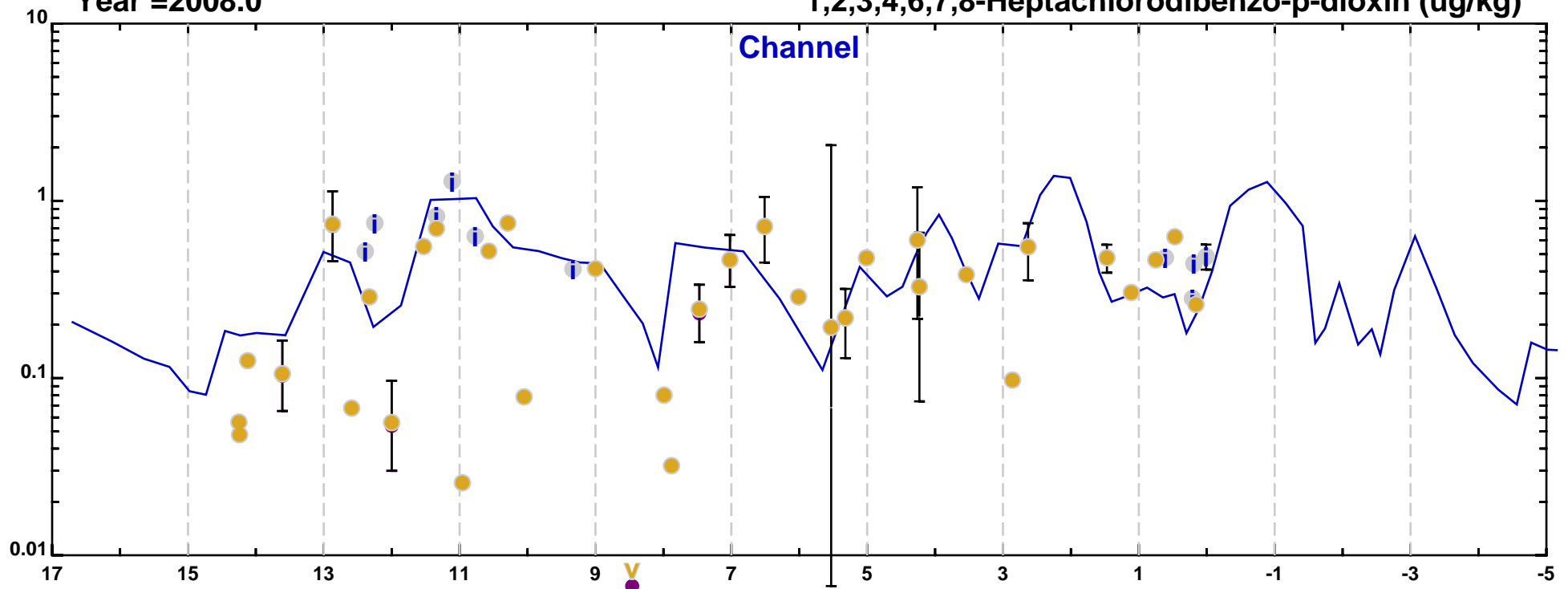
River Mile

Year =2008.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

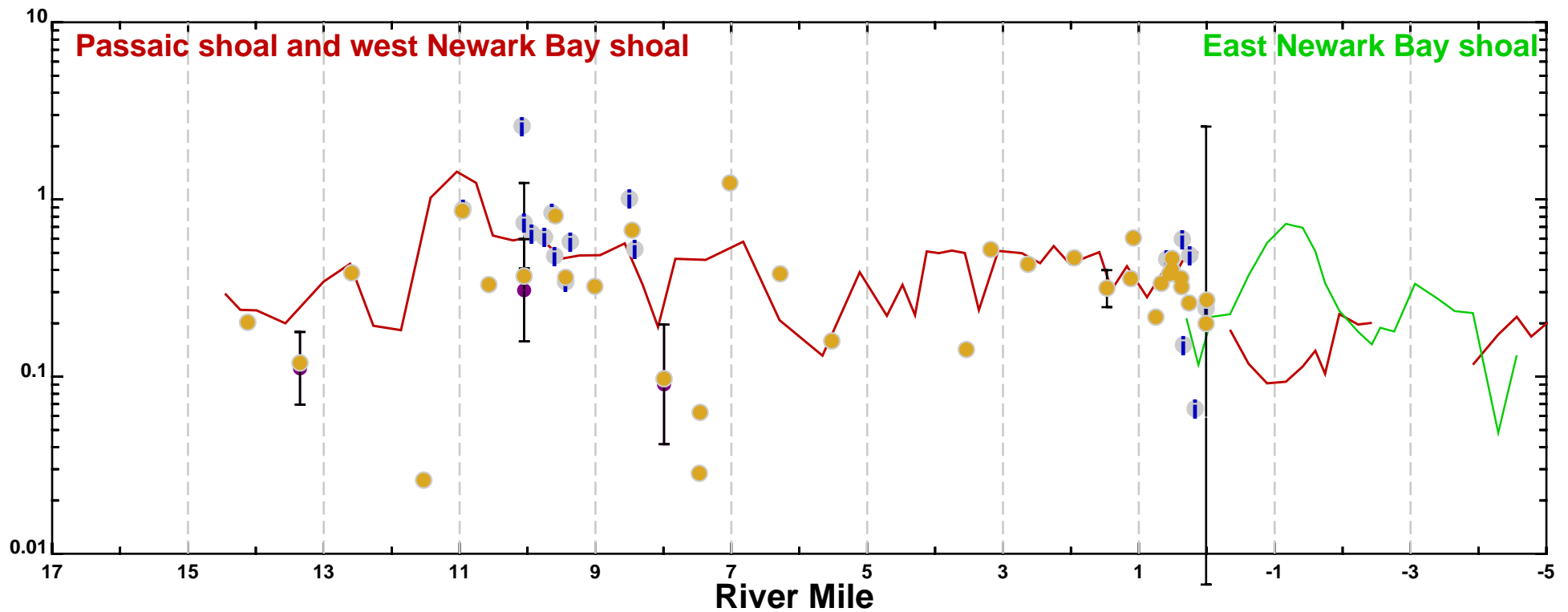
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

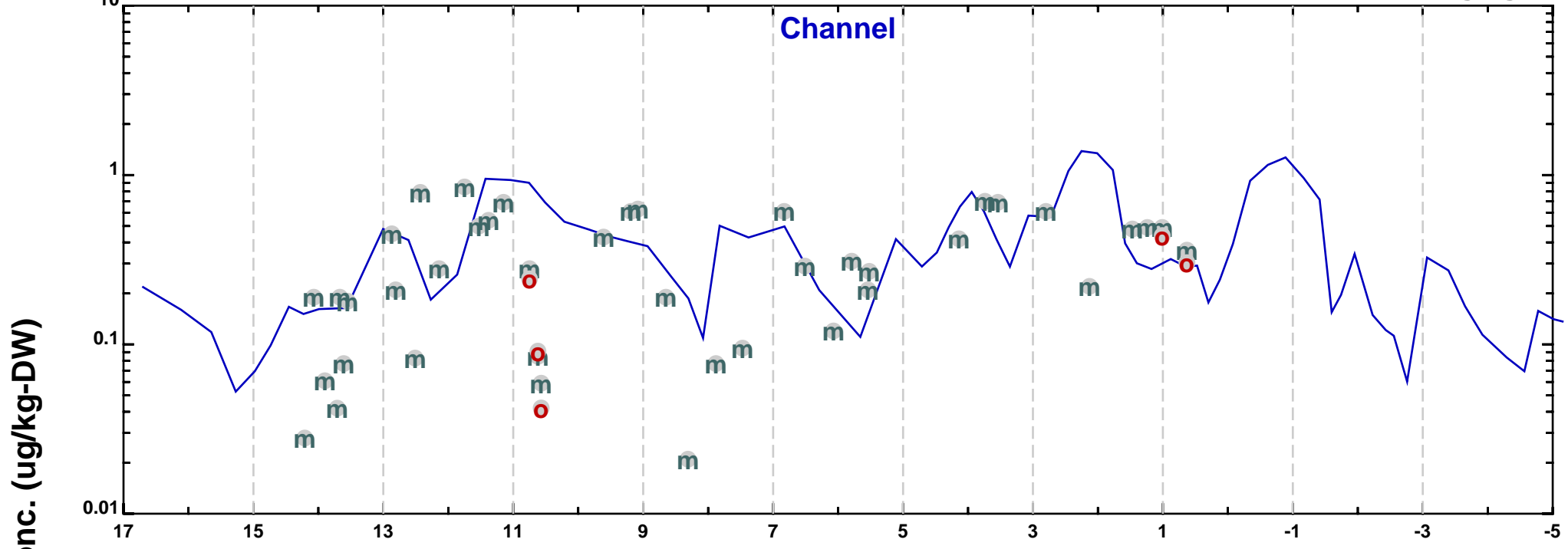


River Mile



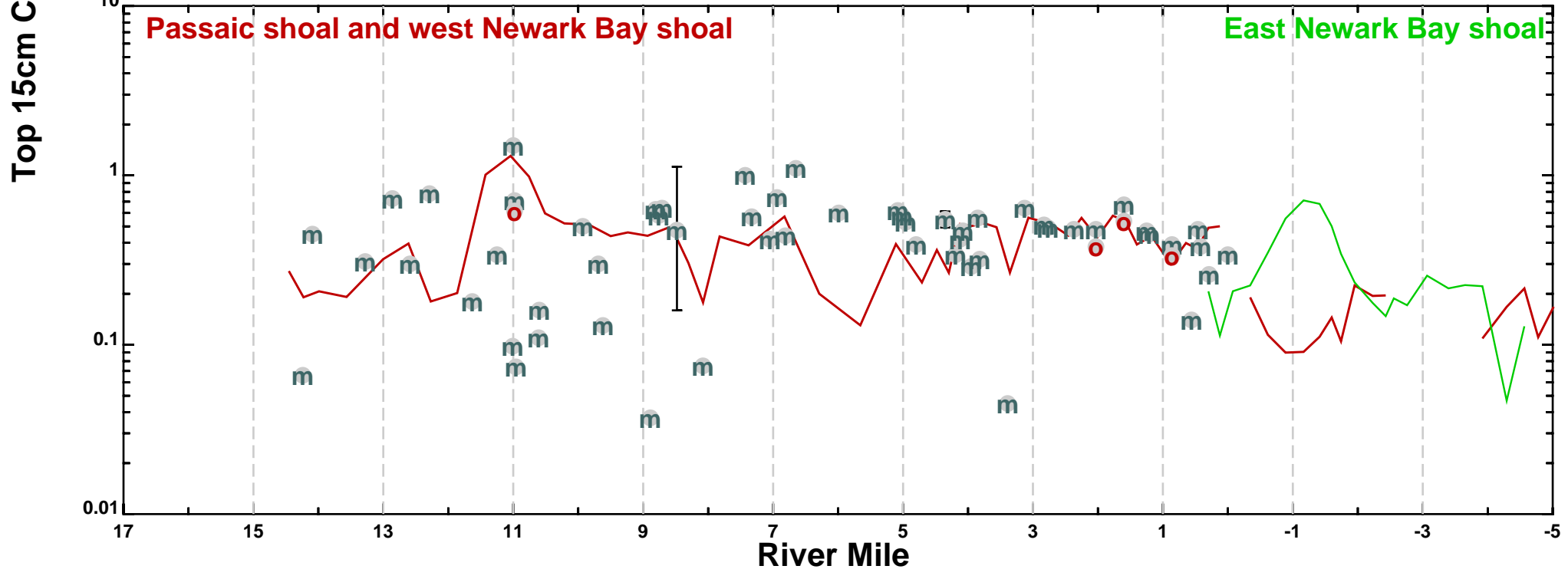
Year =2009.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



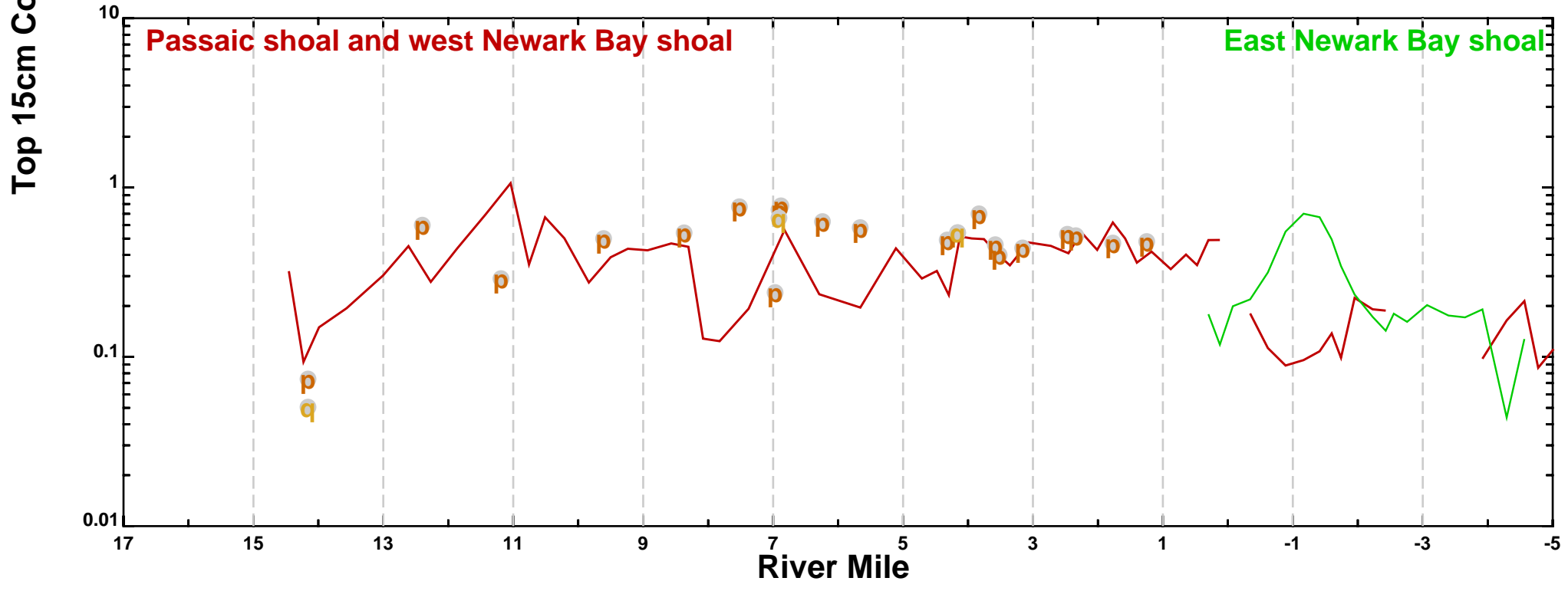
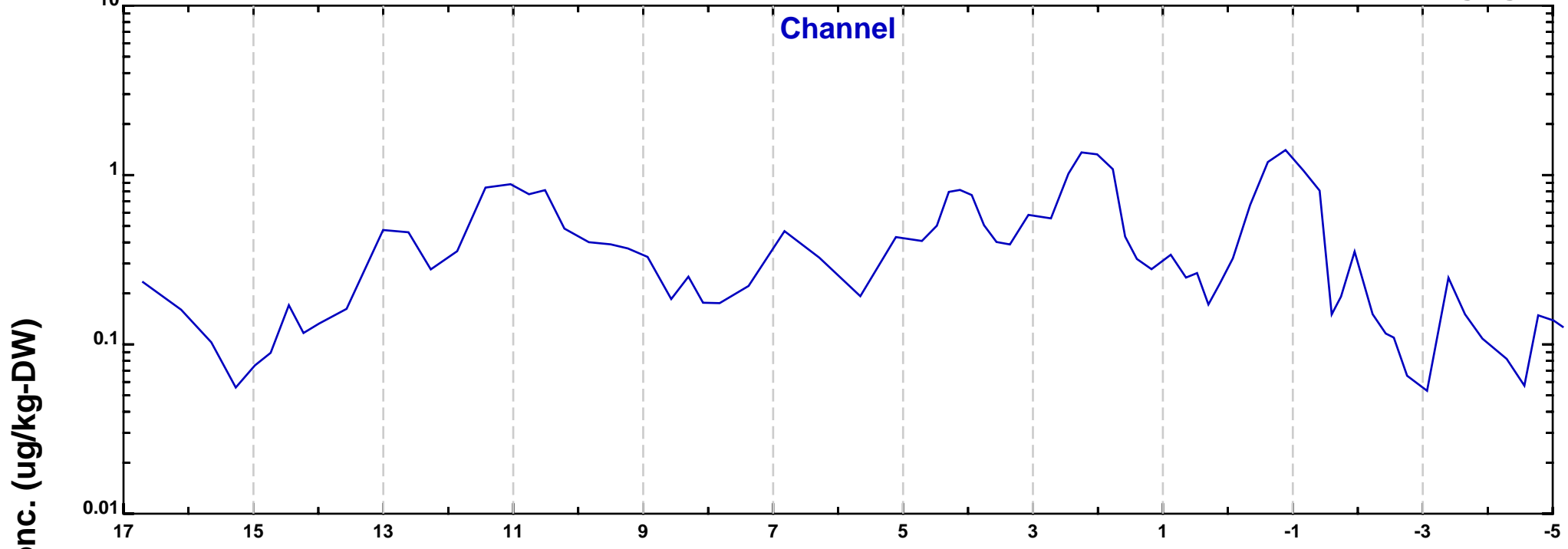
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2010.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)



Year =2011.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

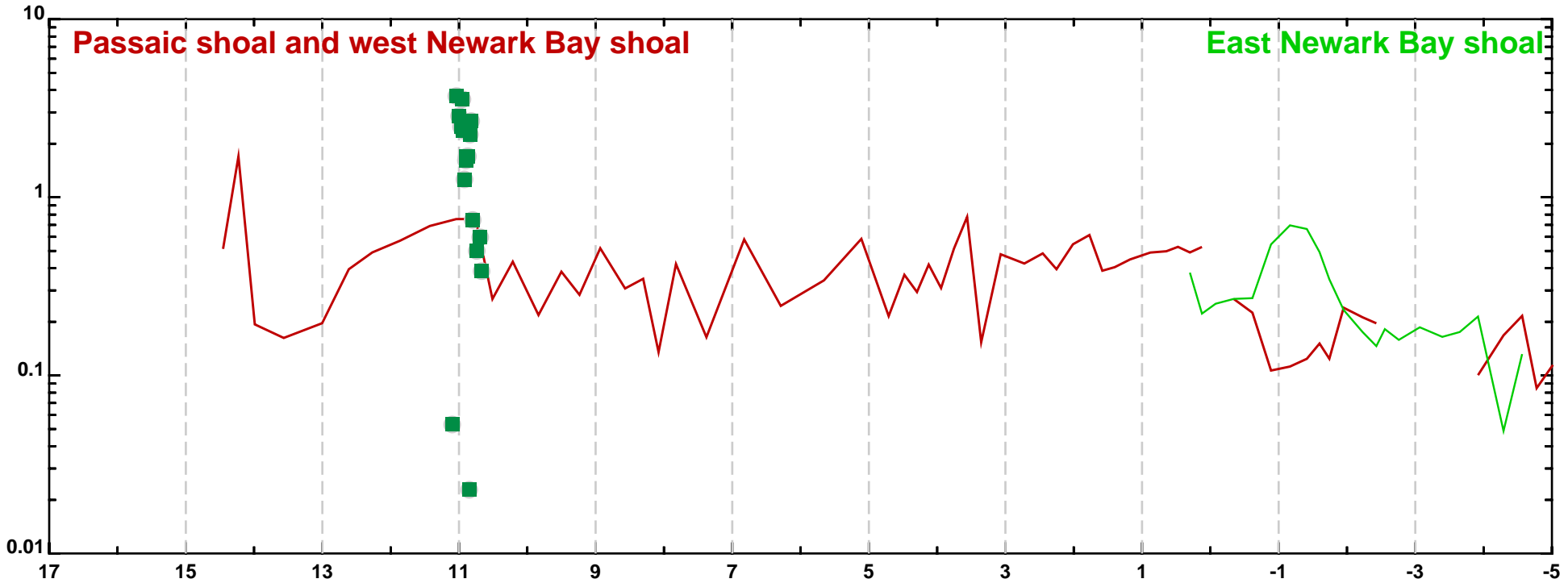
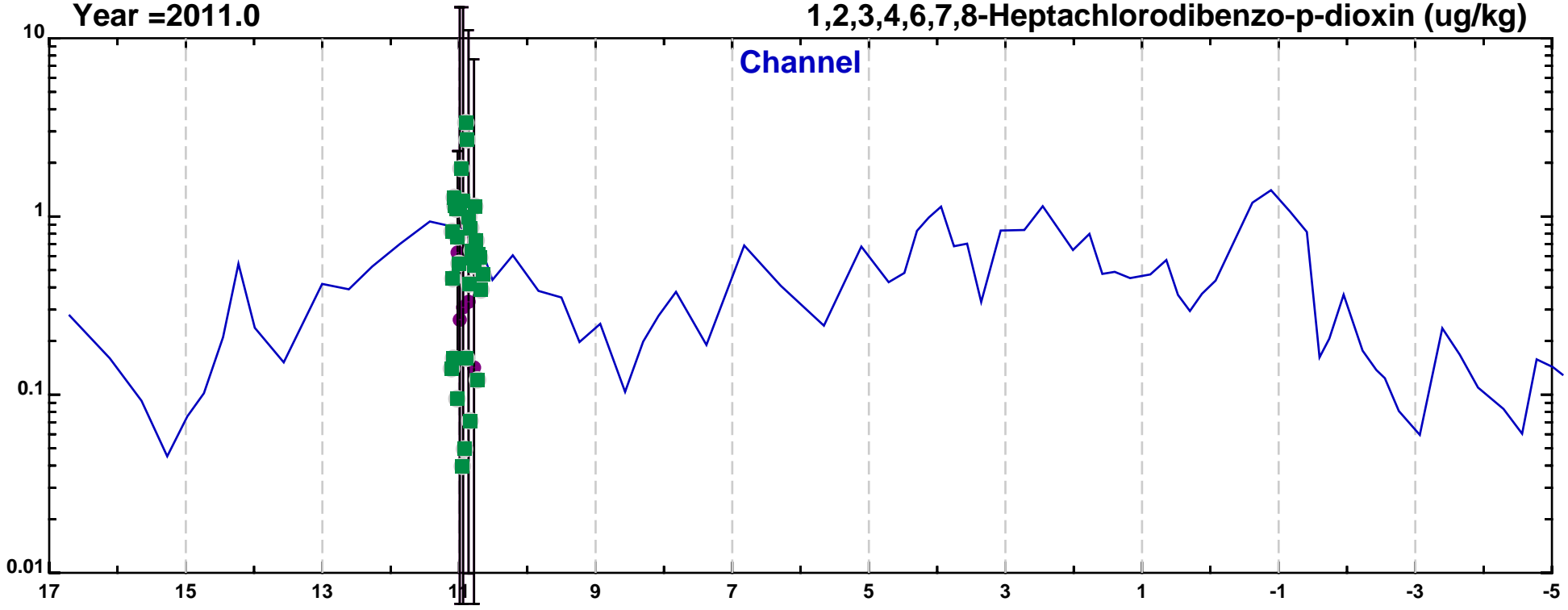
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile



Year =2012.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

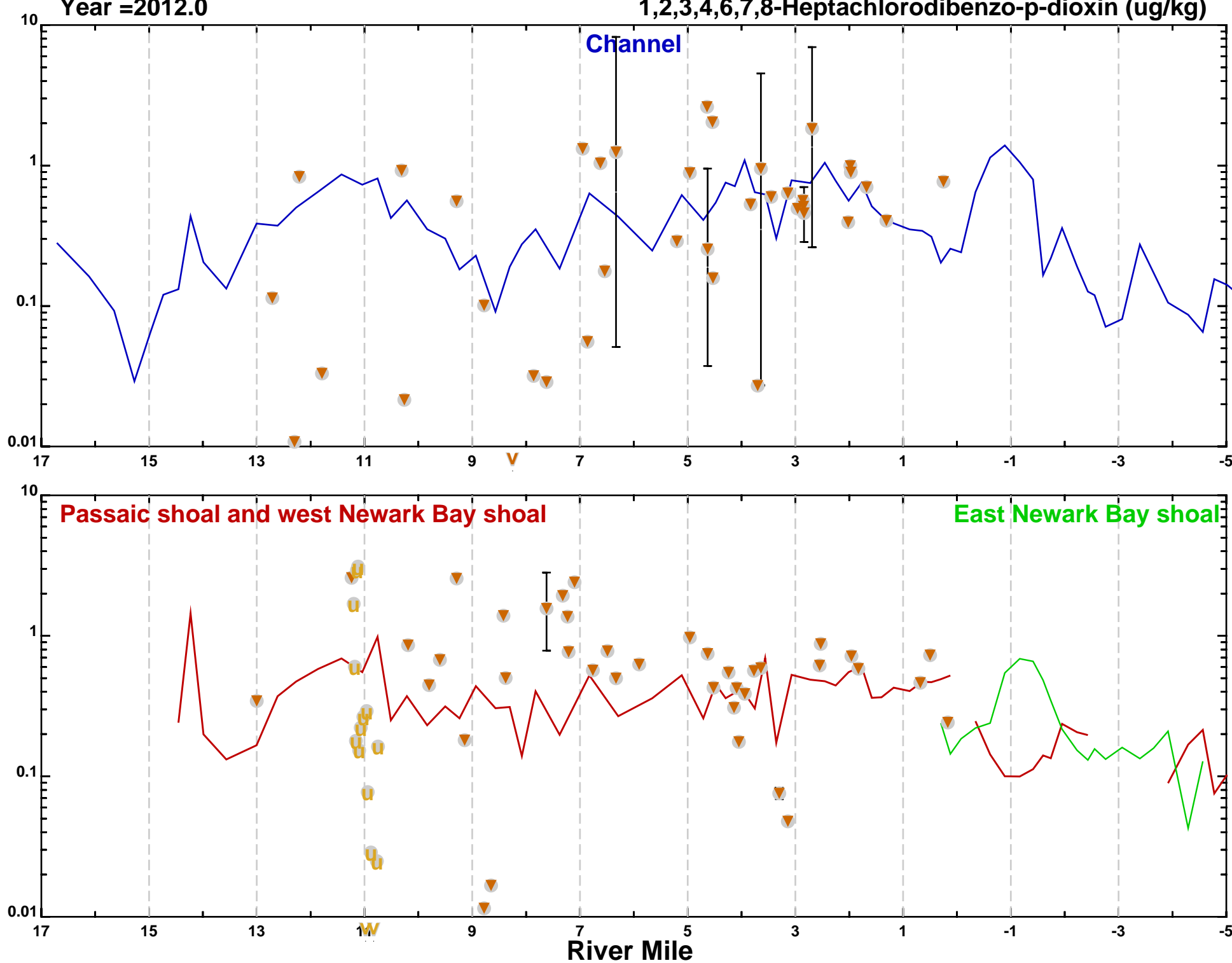
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile



Year =2013.0

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg)

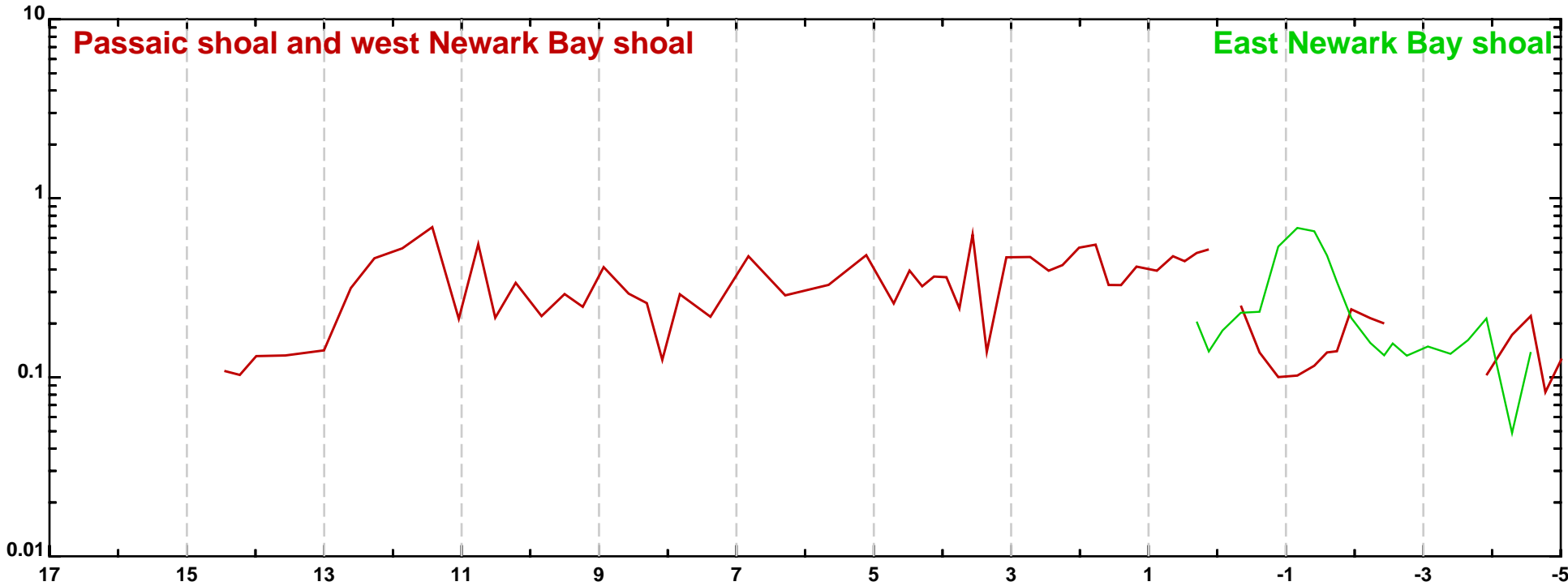
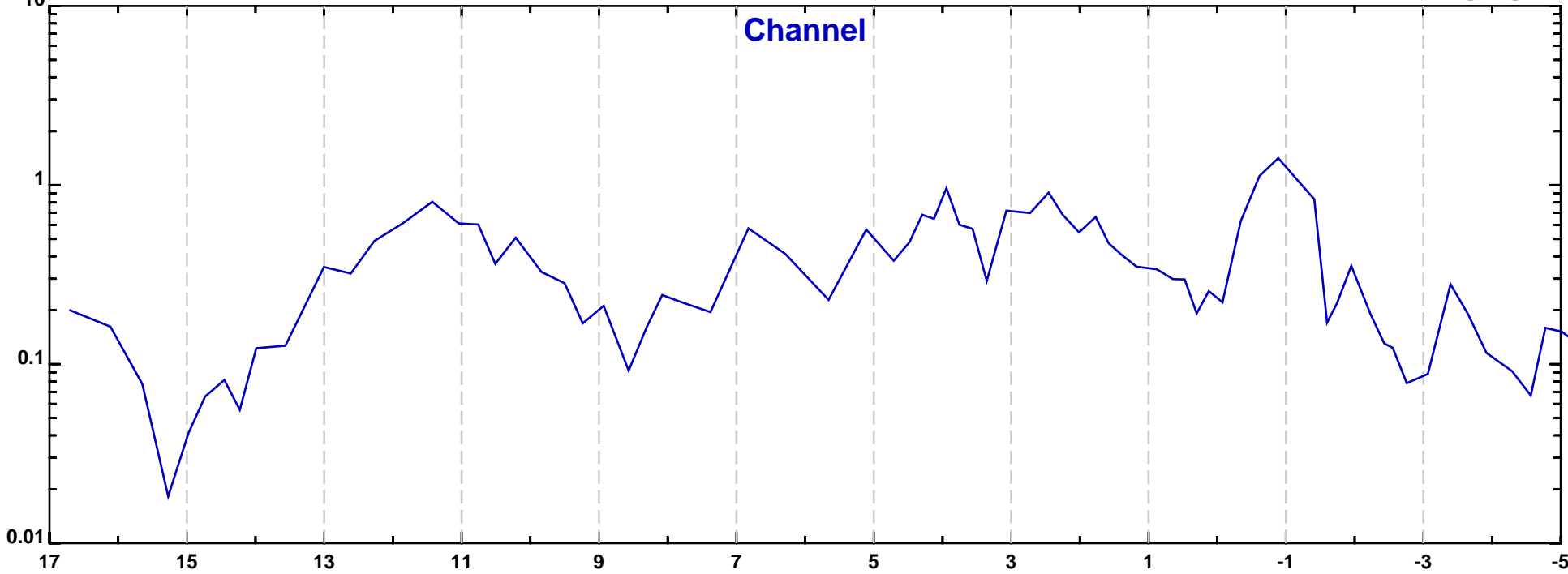
Top 15cm Conc. (ug/kg-DW)

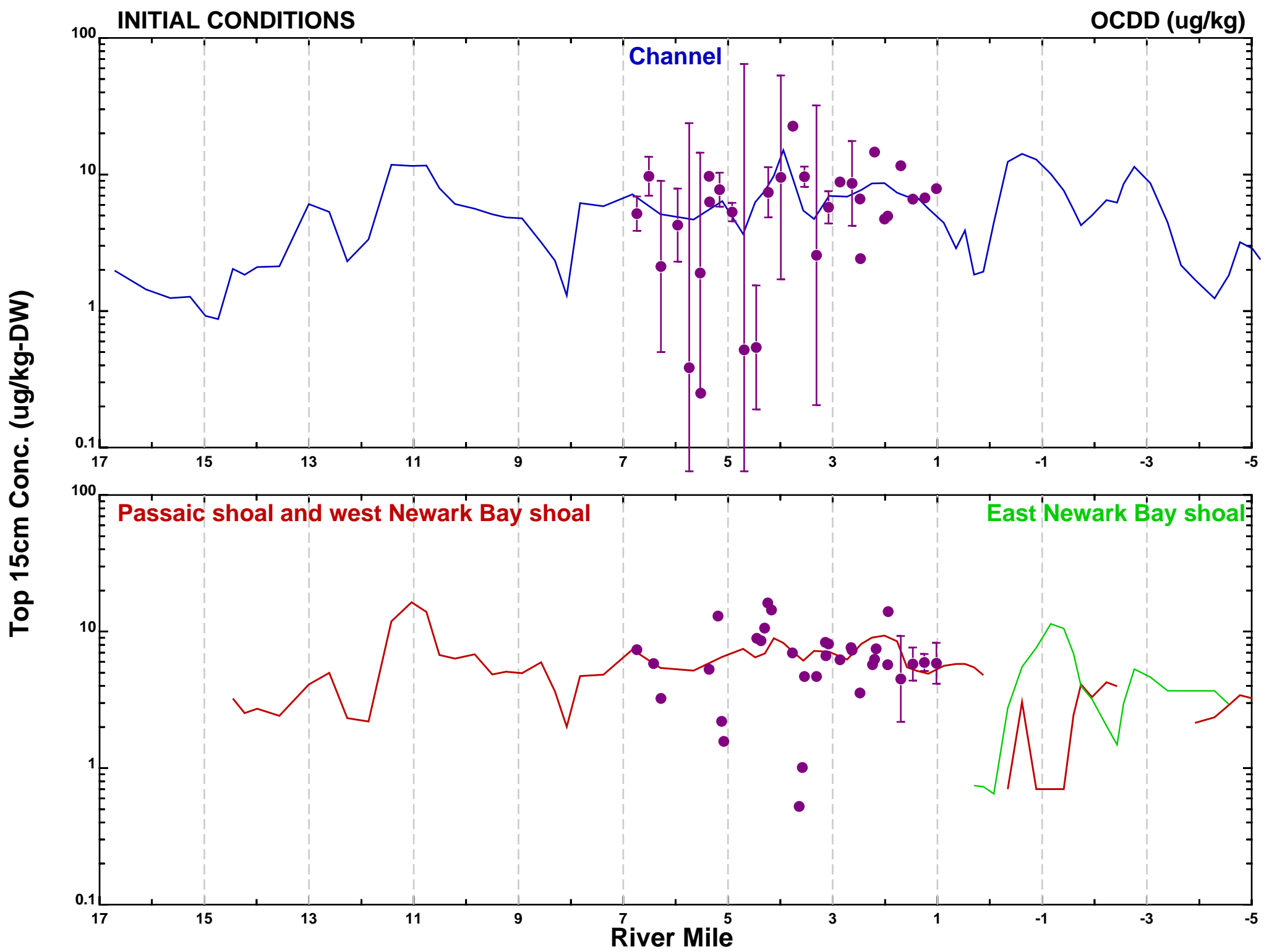
Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

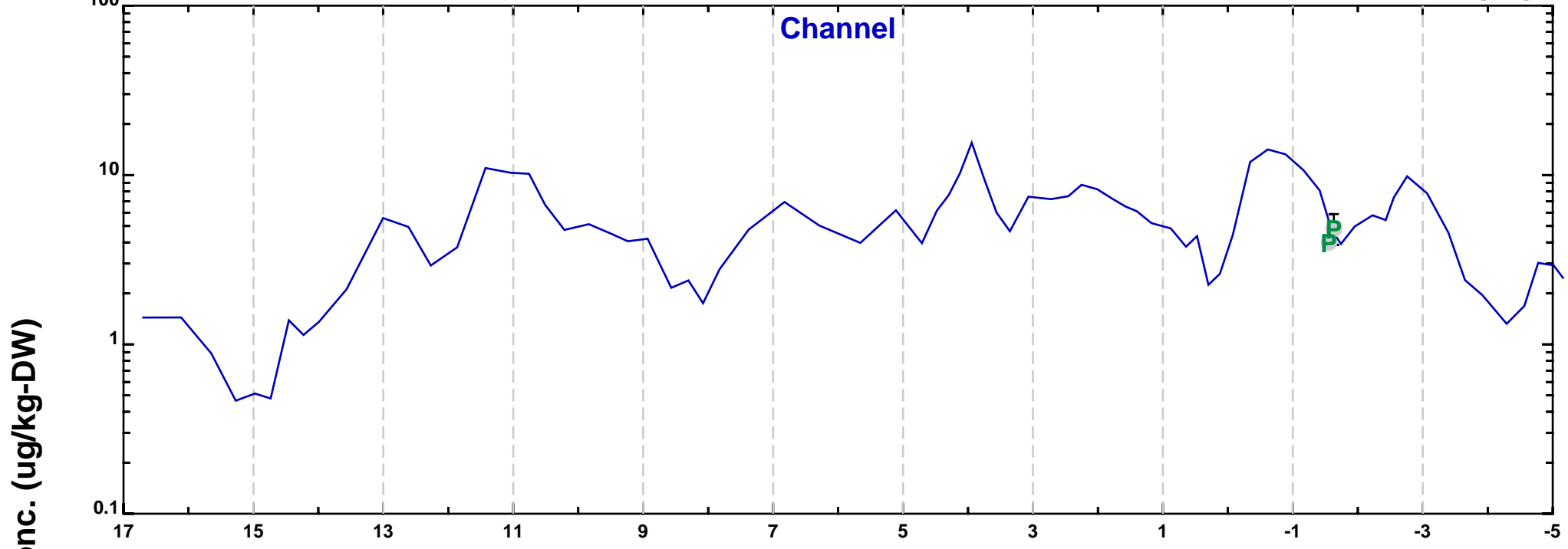
River Mile





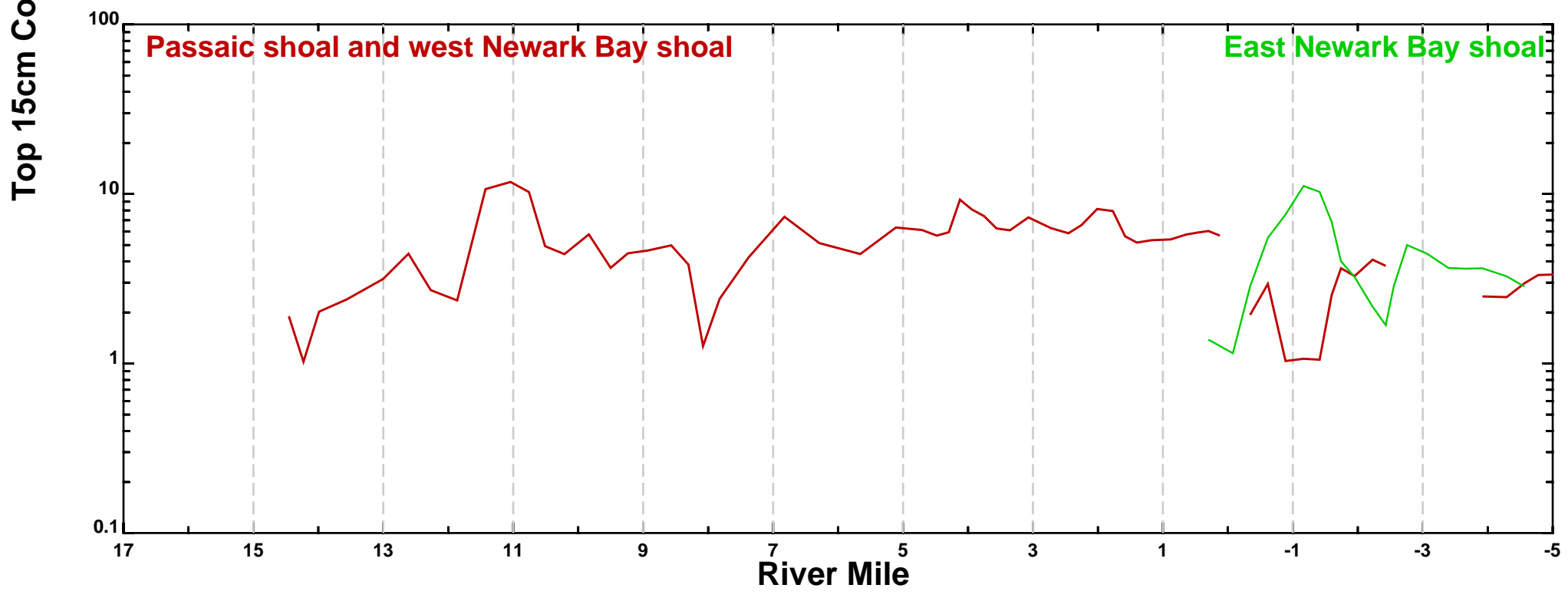
Year = 1996.0

OCDD (ug/kg)



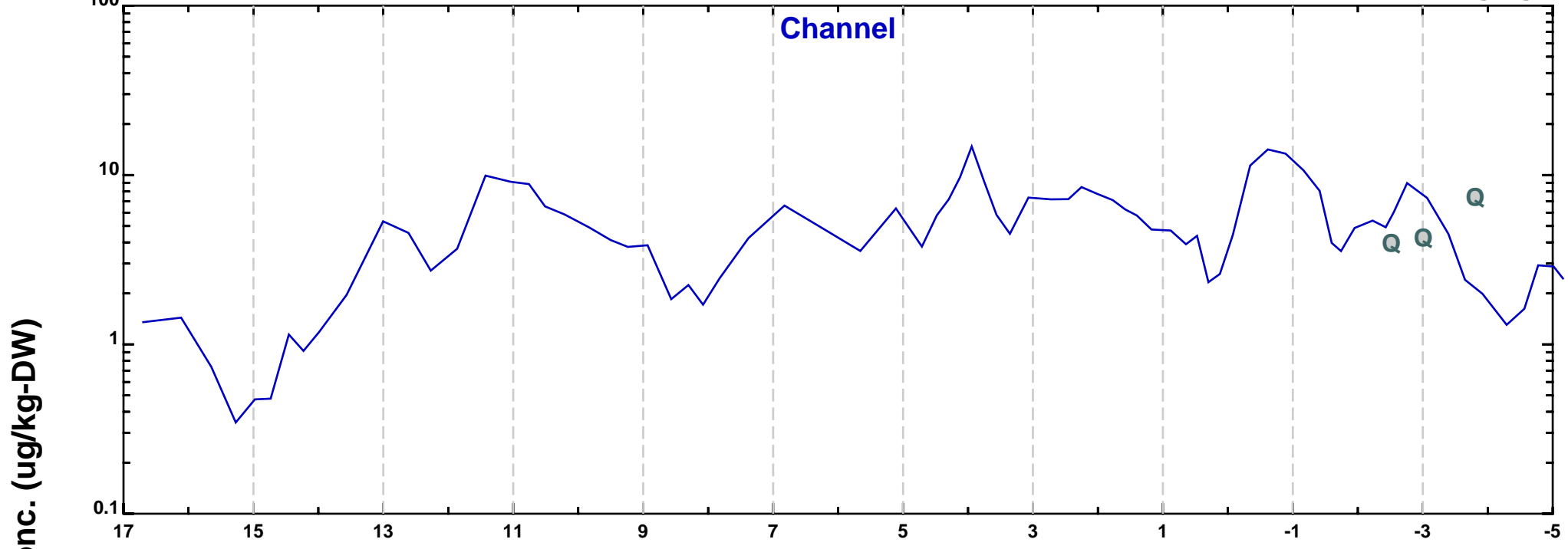
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



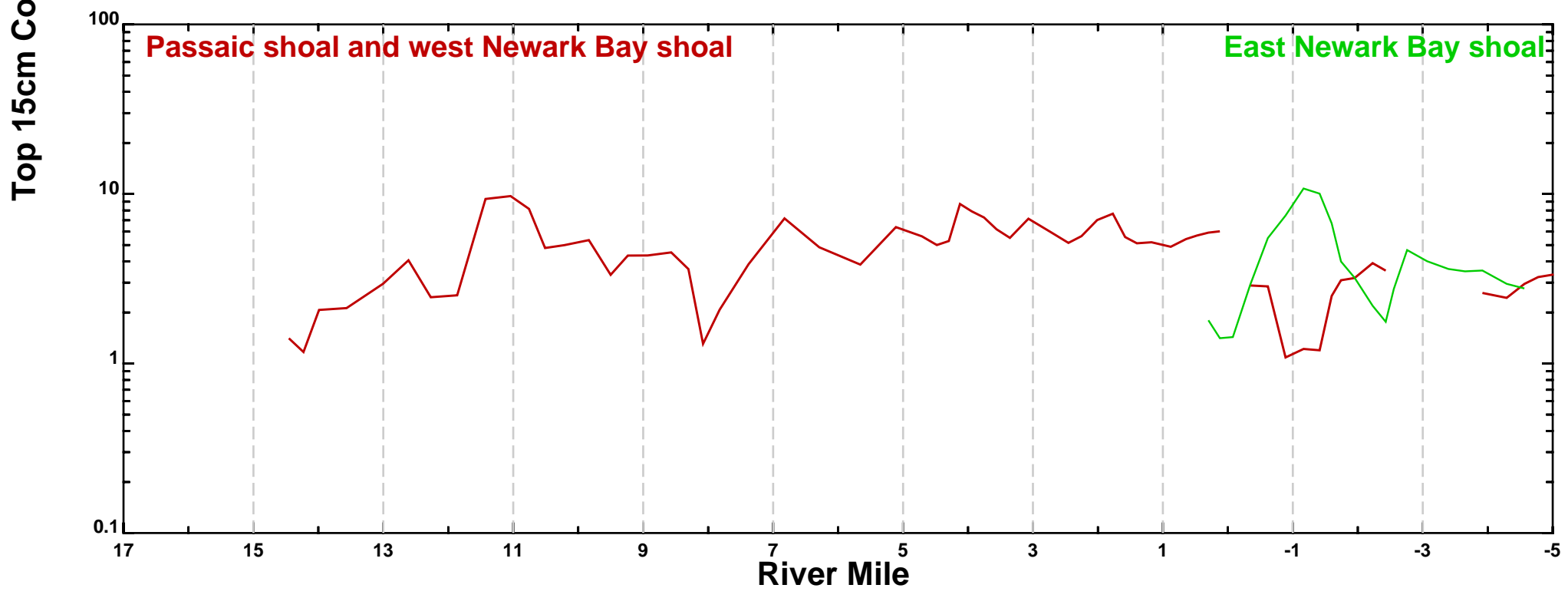
Year = 1997.0

OCDD (ug/kg)



Passaic shoal and west Newark Bay shoal

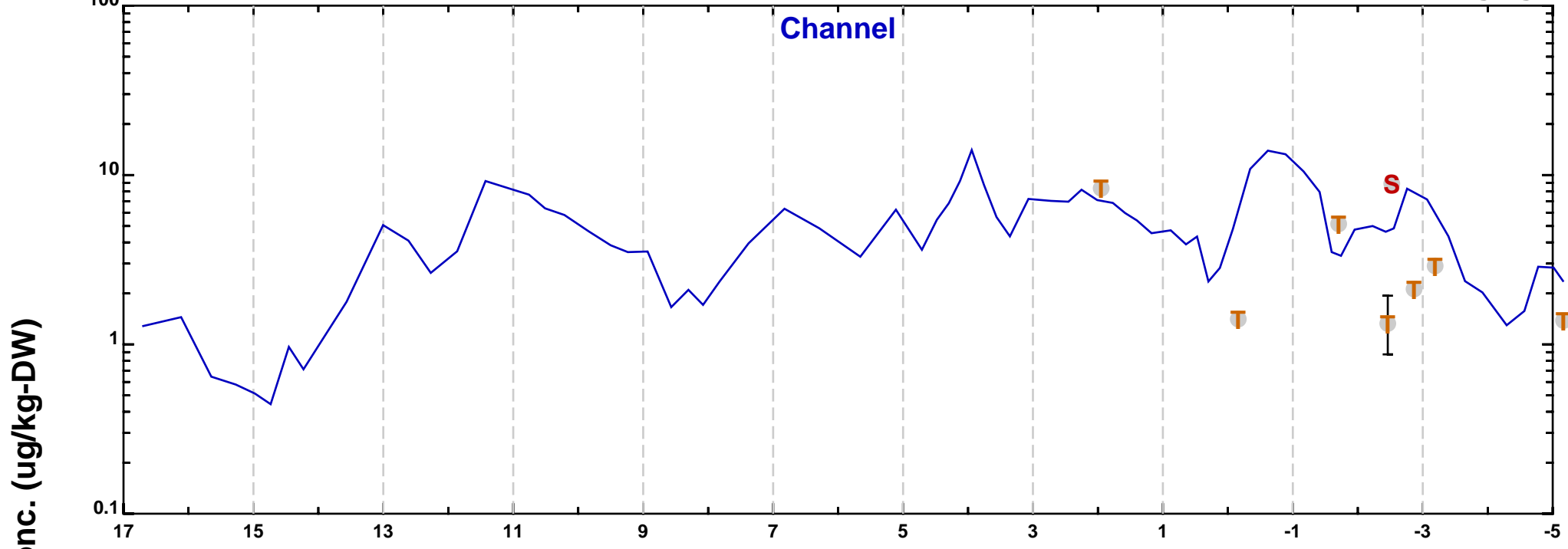
East Newark Bay shoal





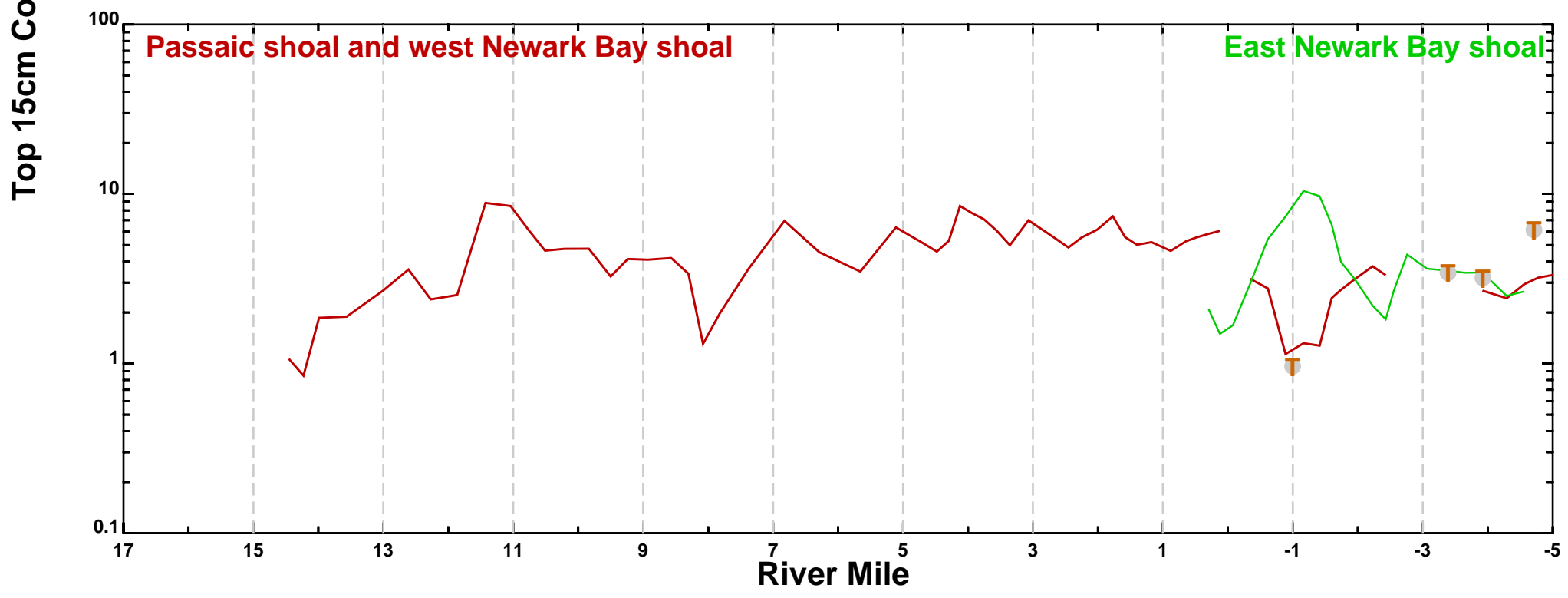
Year = 1998.0

OCDD (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

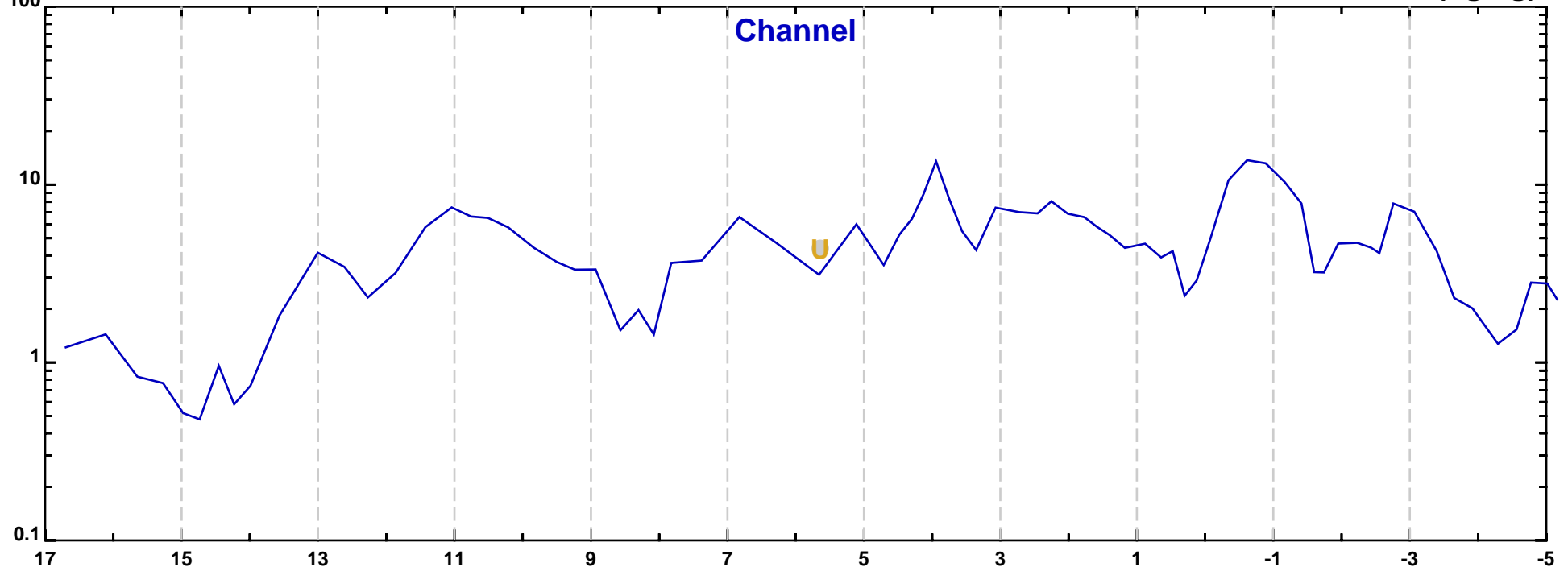


River Mile

Year = 1999.0

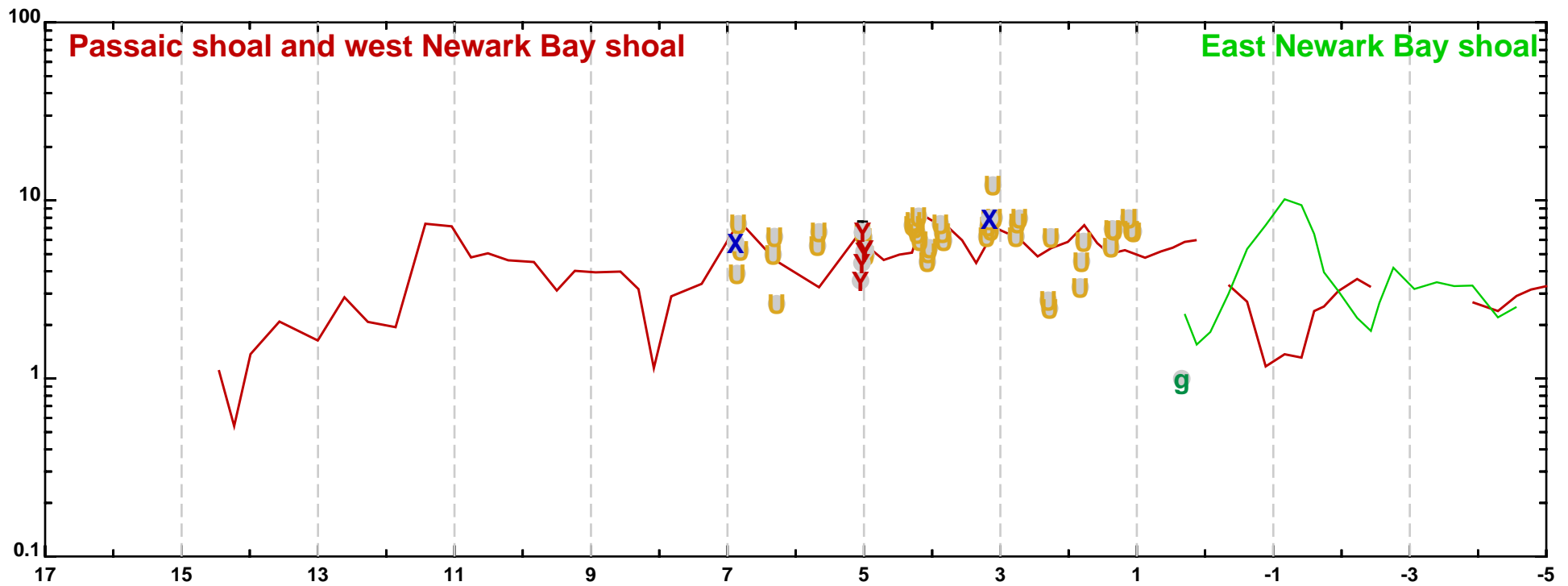
OCDD (ug/kg)

Top 15cm Conc. (ug/kg-DW)

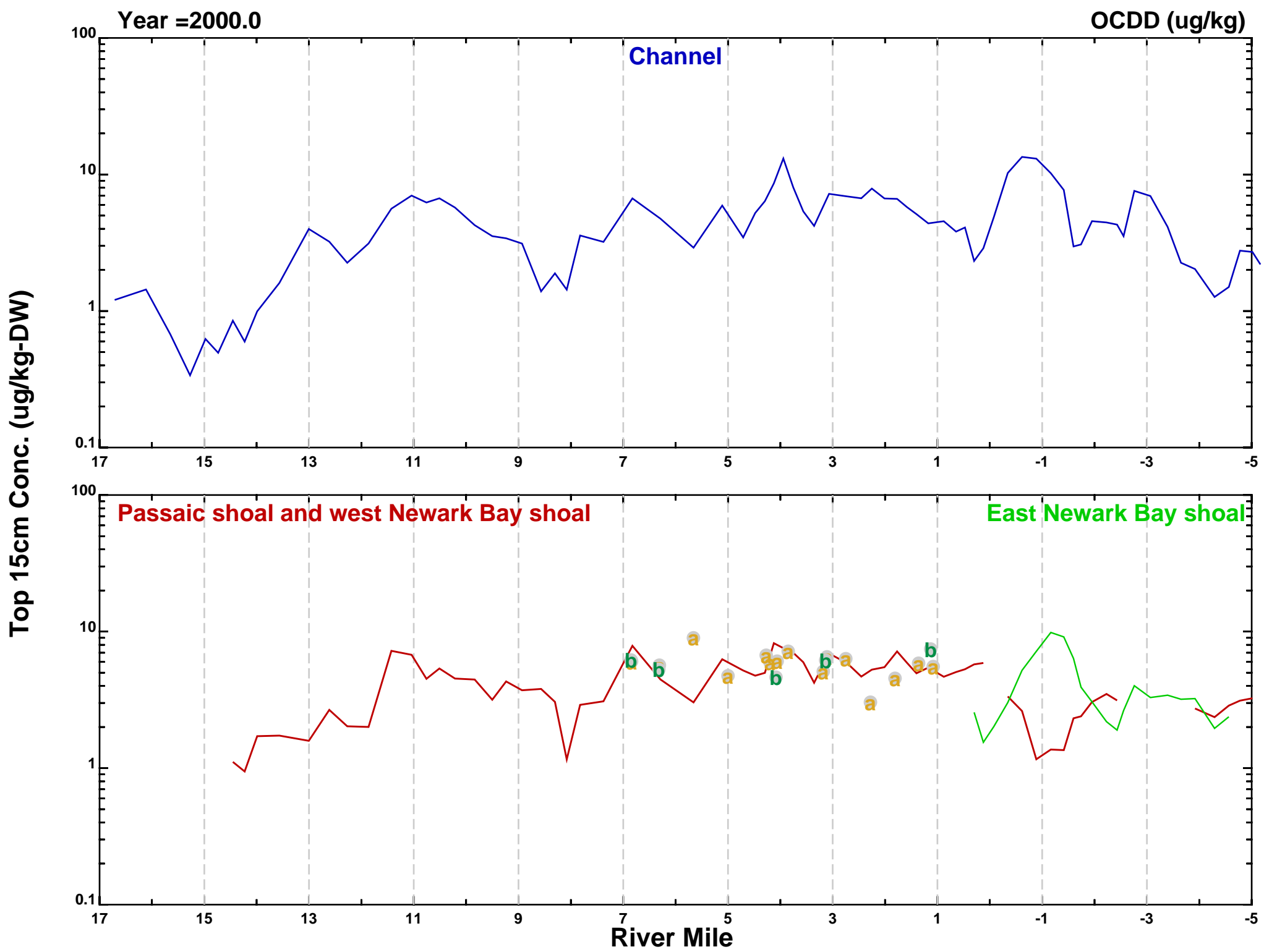


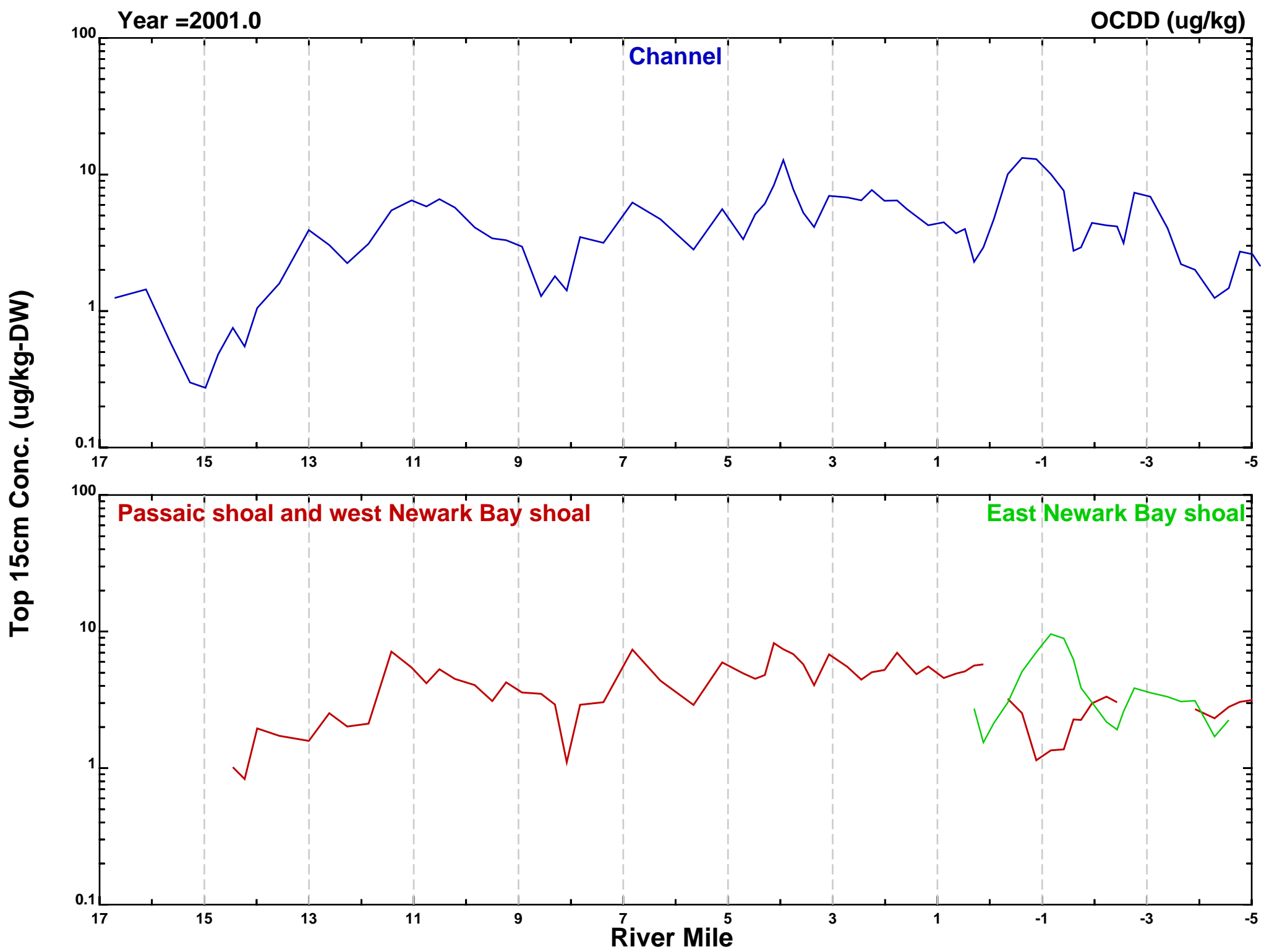
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile





Year =2002.0

OCDD (ug/kg)

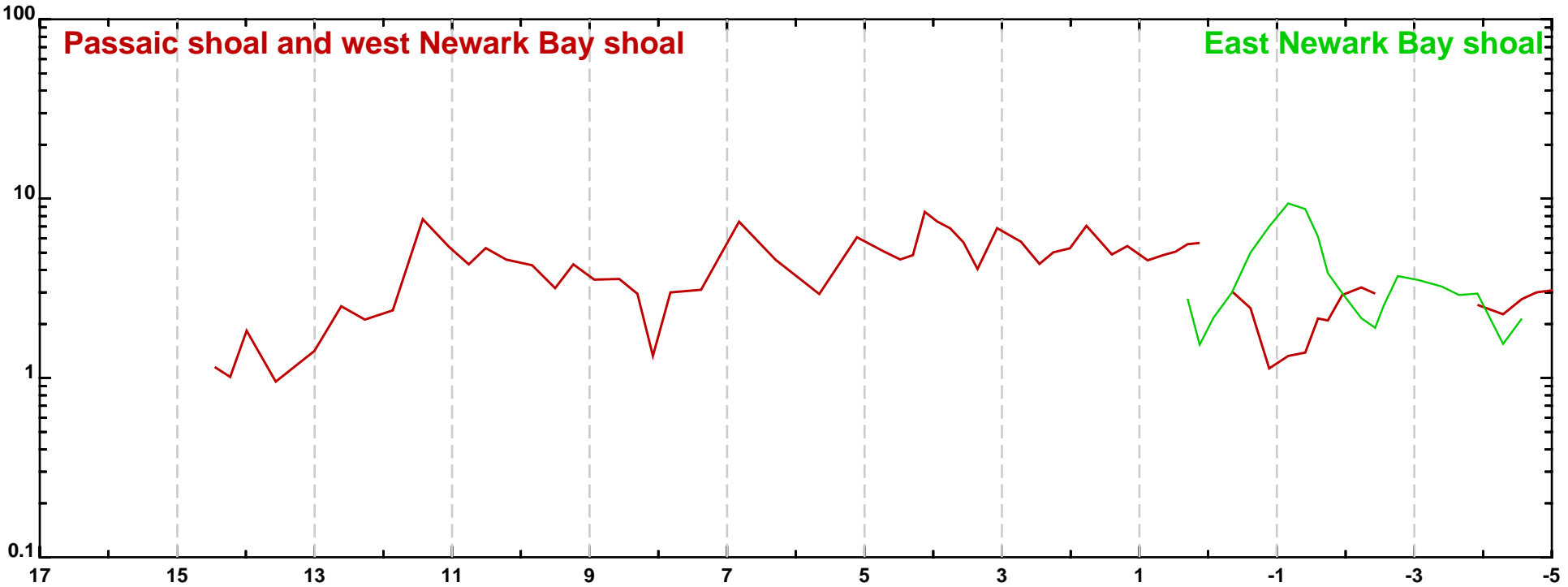
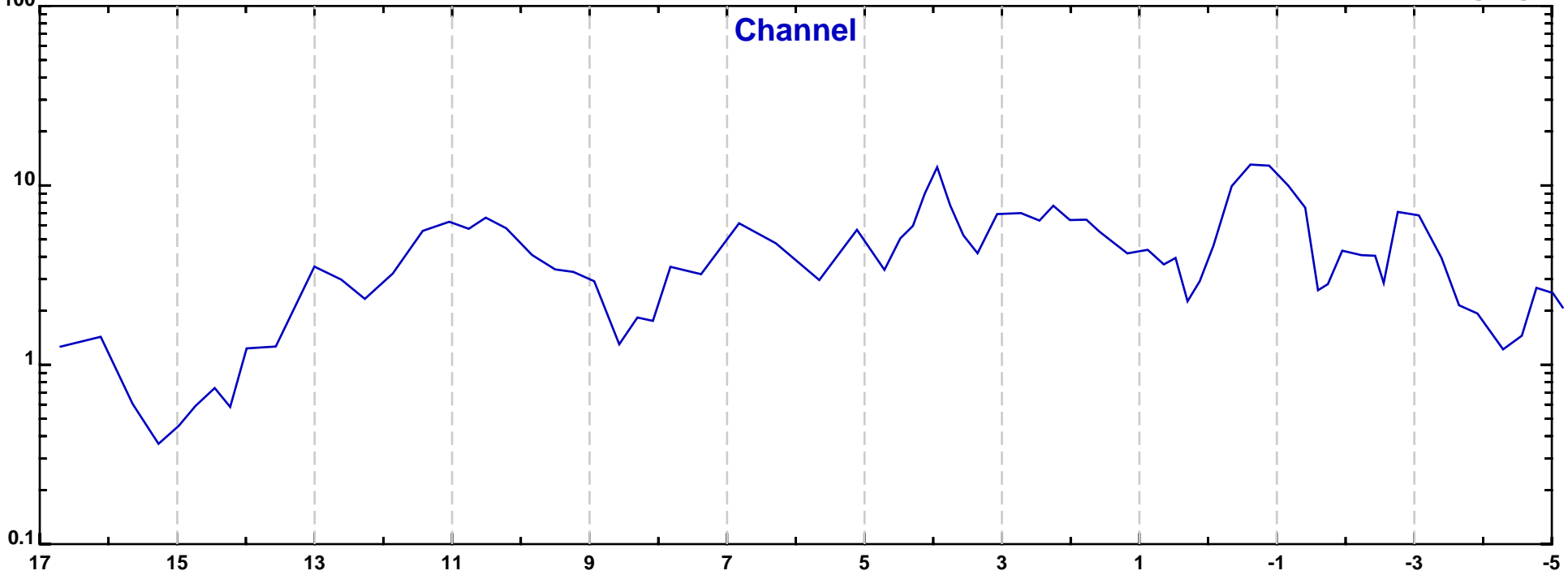
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

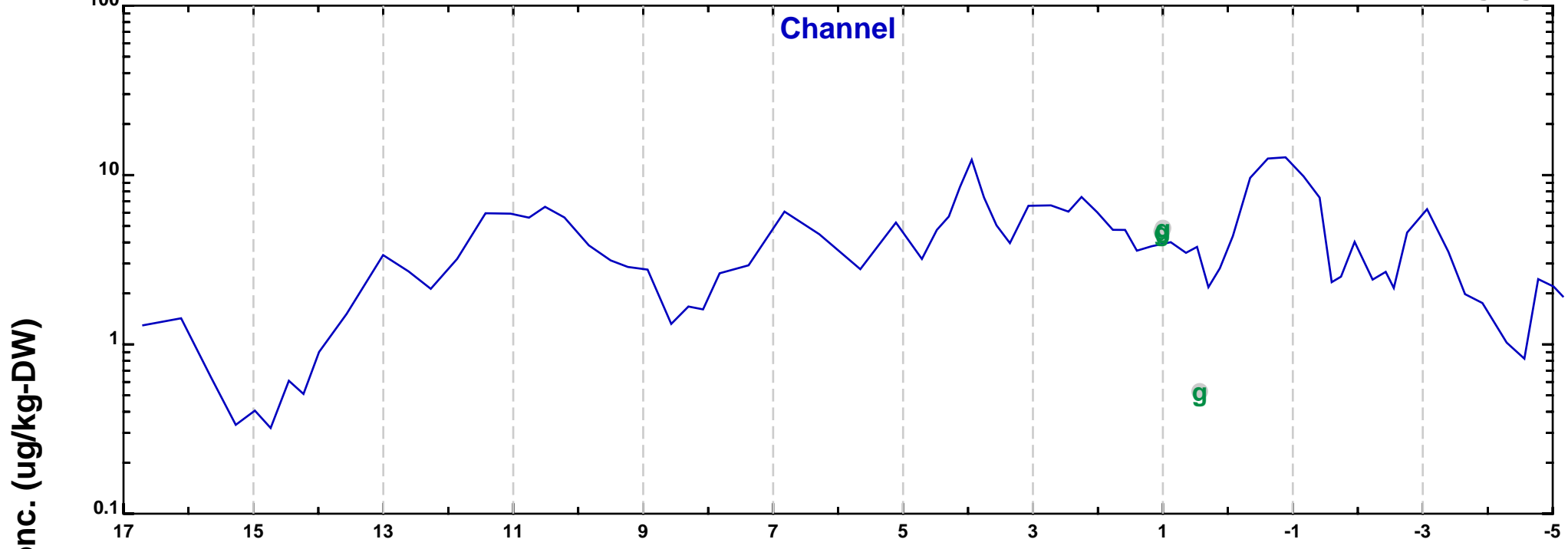
East Newark Bay shoal

River Mile



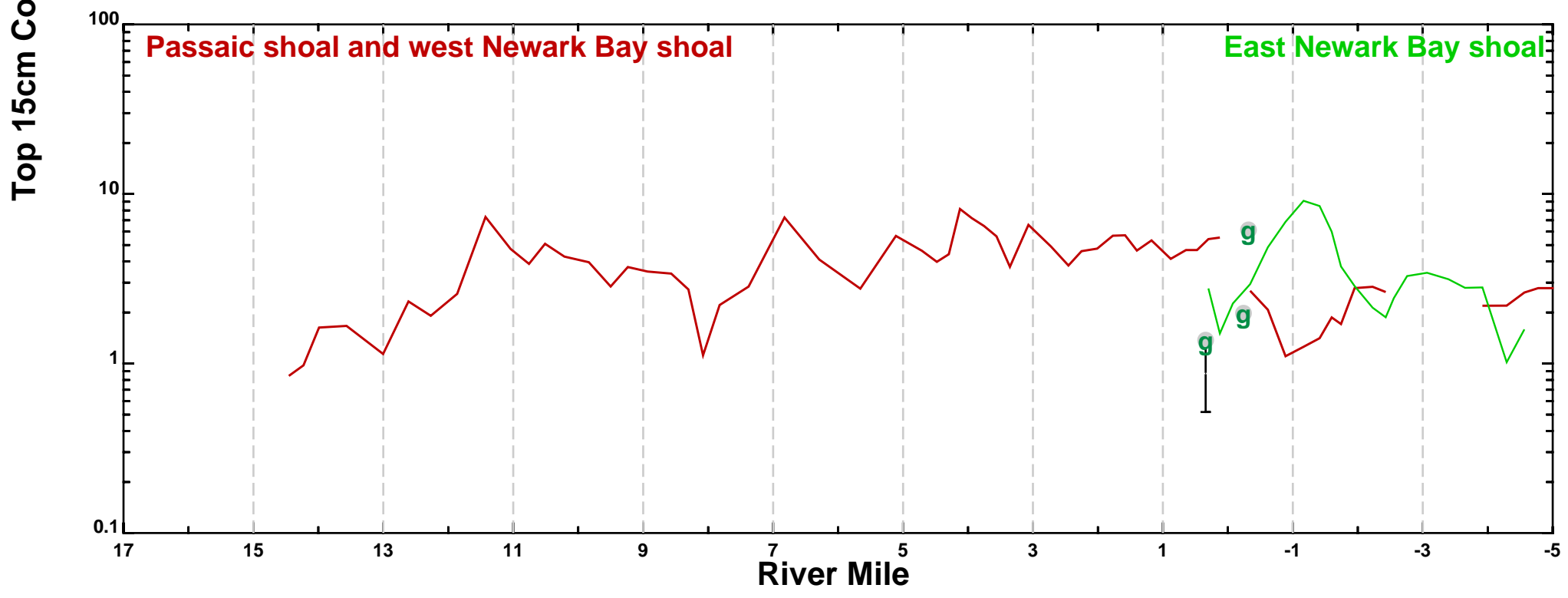
Year = 2003.0

OCDD (ug/kg)



Passaic shoal and west Newark Bay shoal

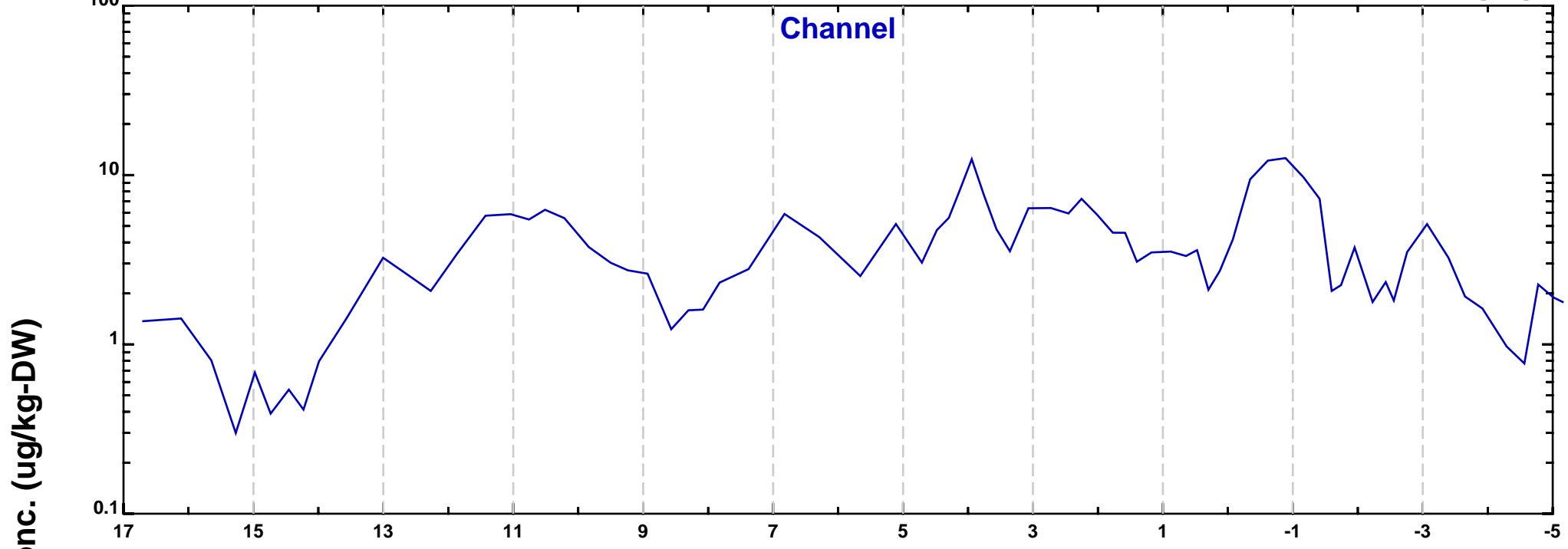
East Newark Bay shoal



River Mile

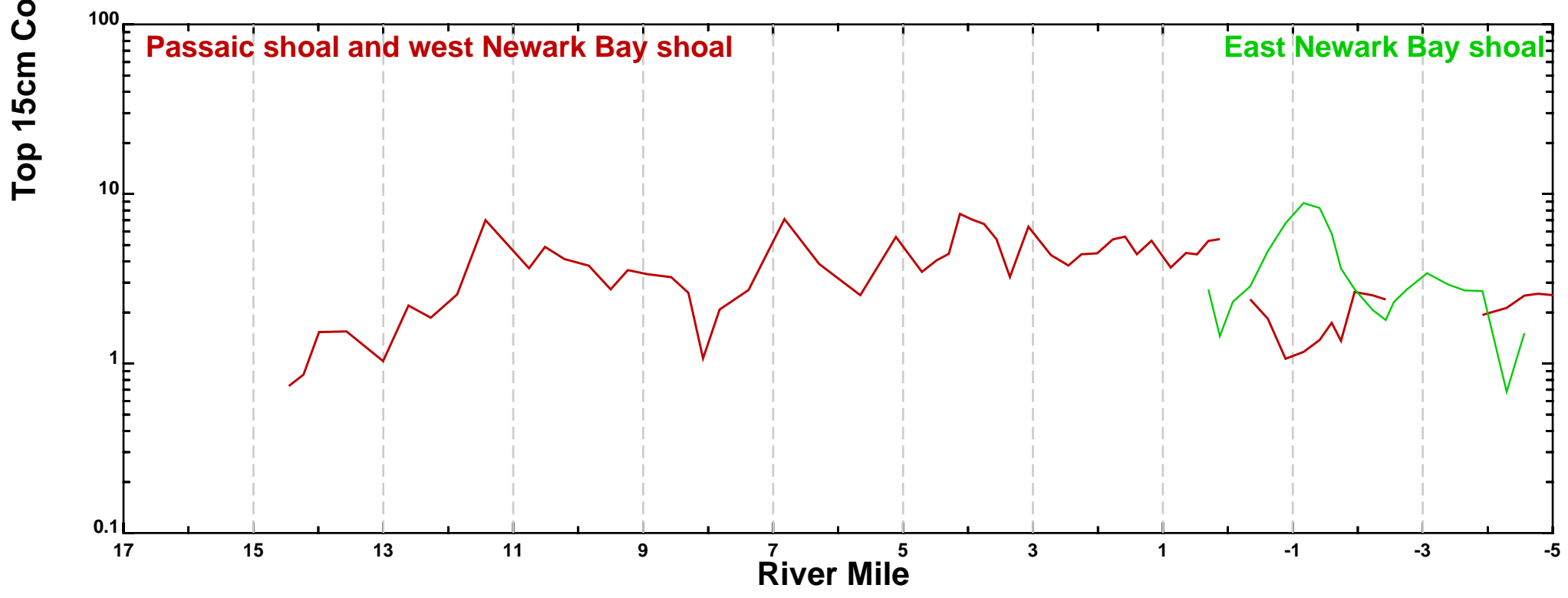
Year =2004.0

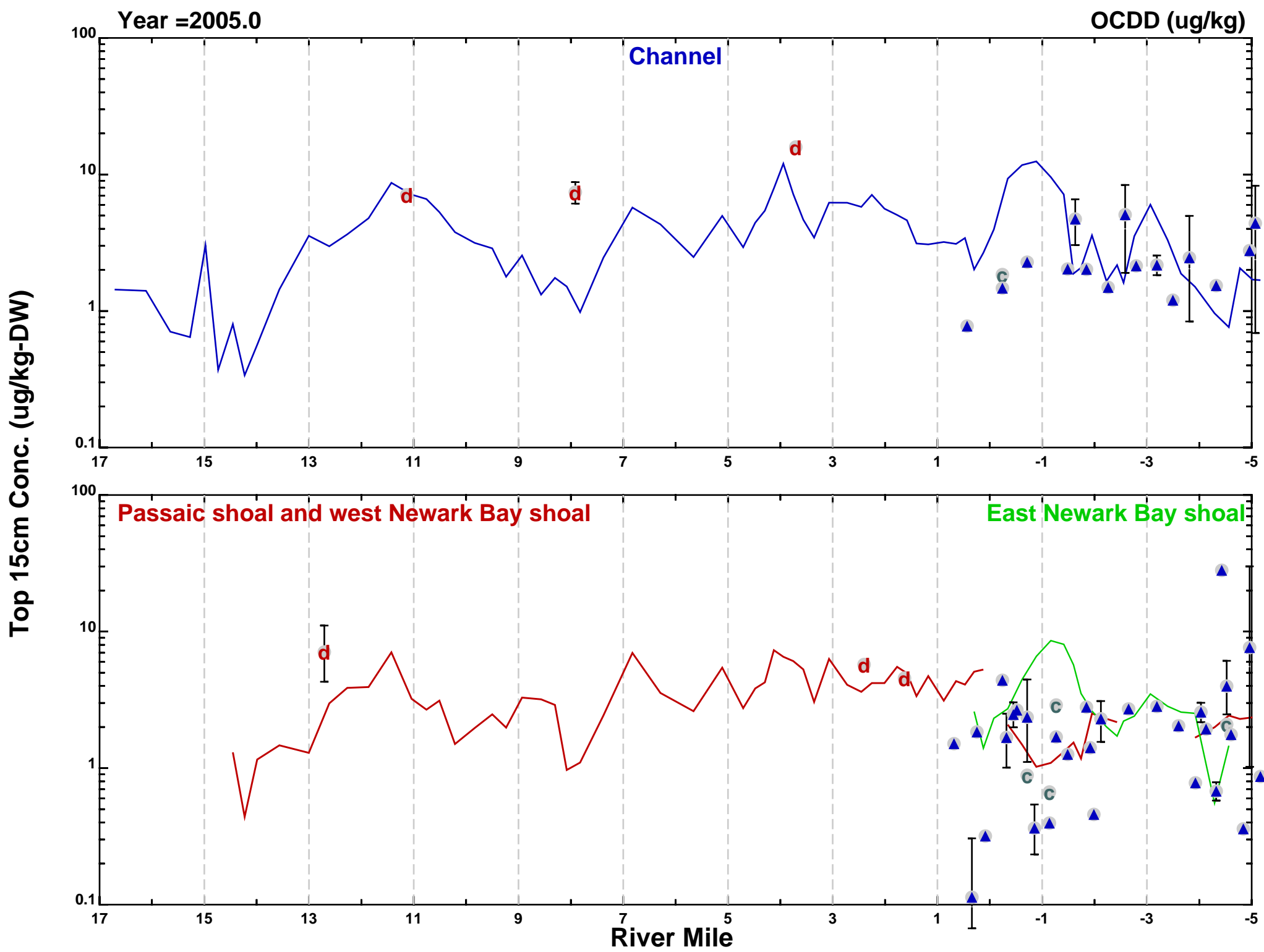
OCDD (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal







Year =2006.0

OCDD (ug/kg)

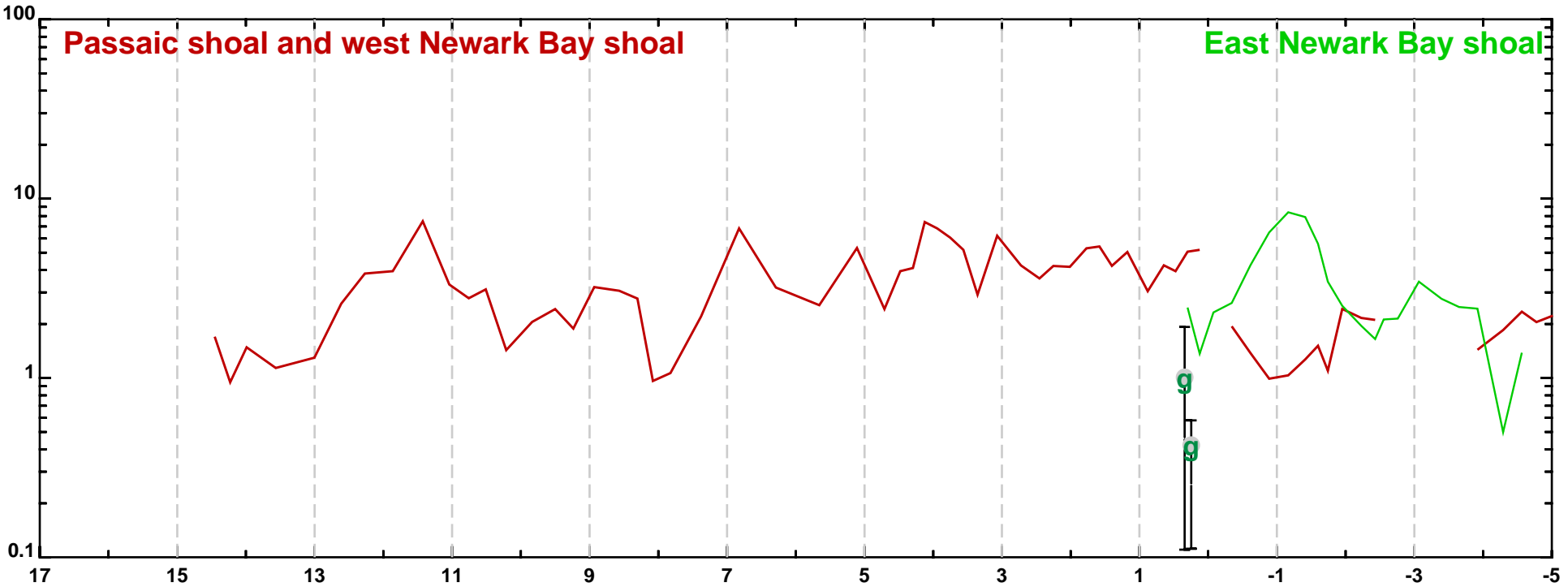
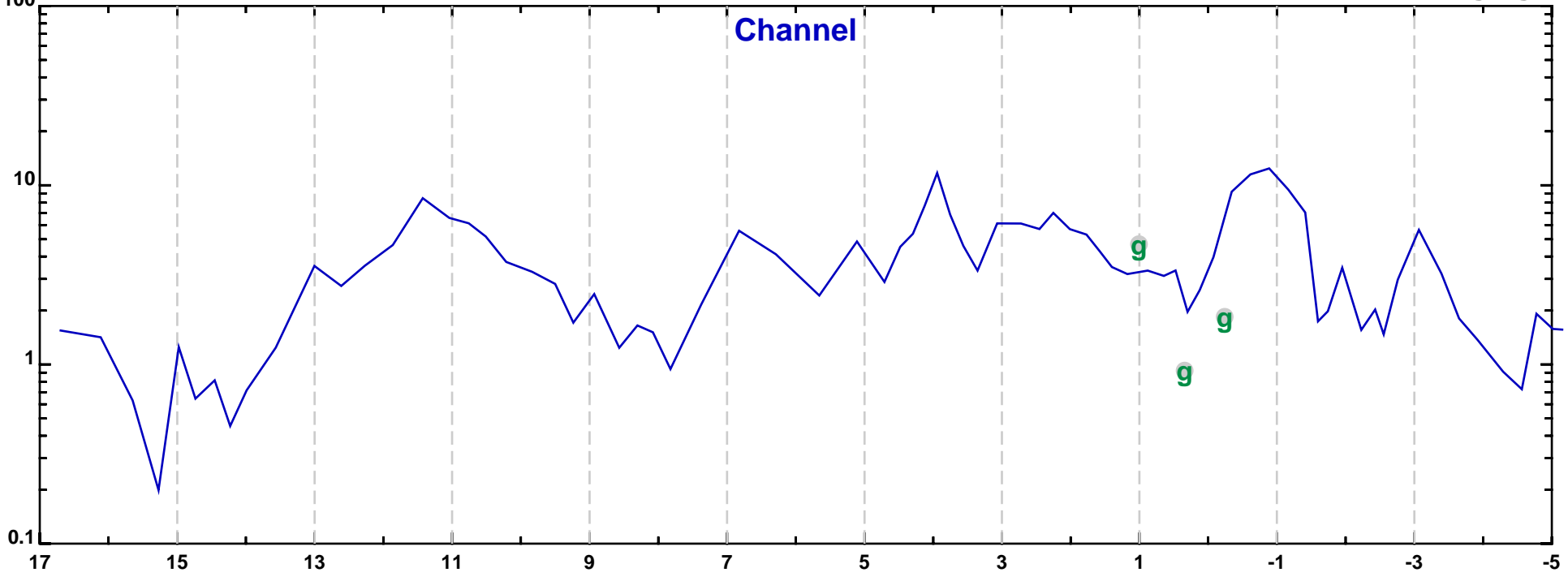
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

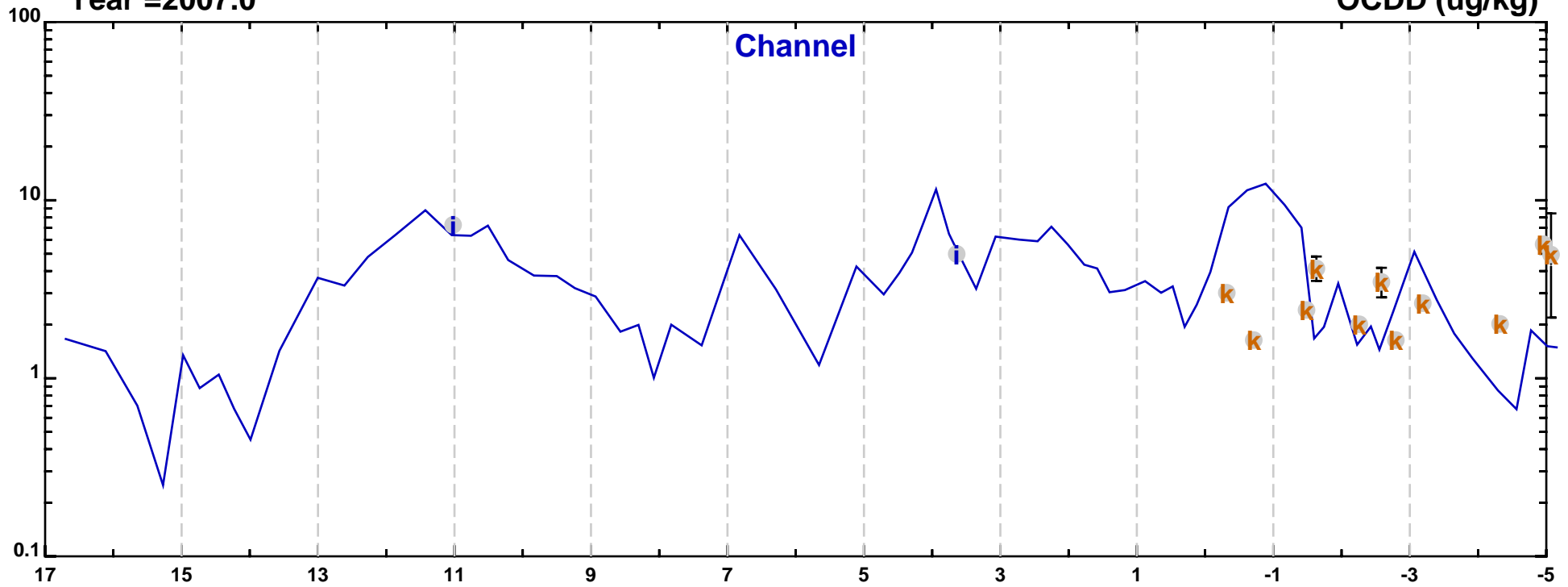


Year =2007.0

OCDD (ug/kg)

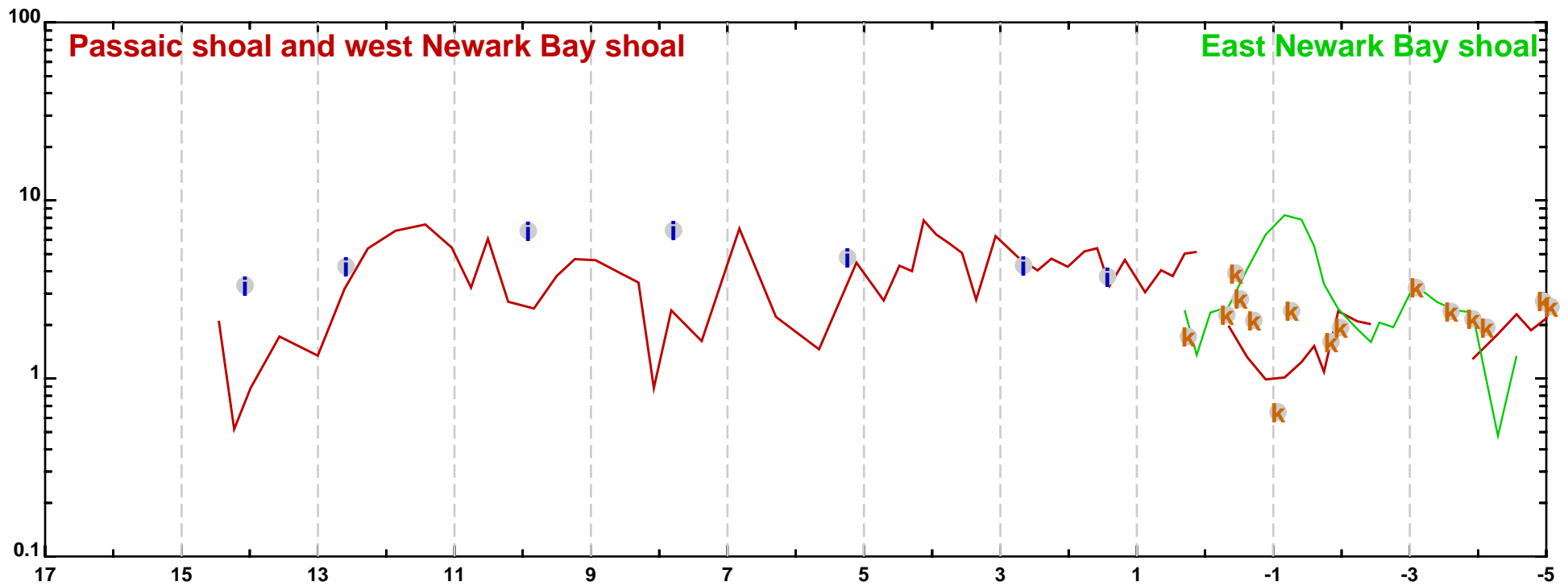
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



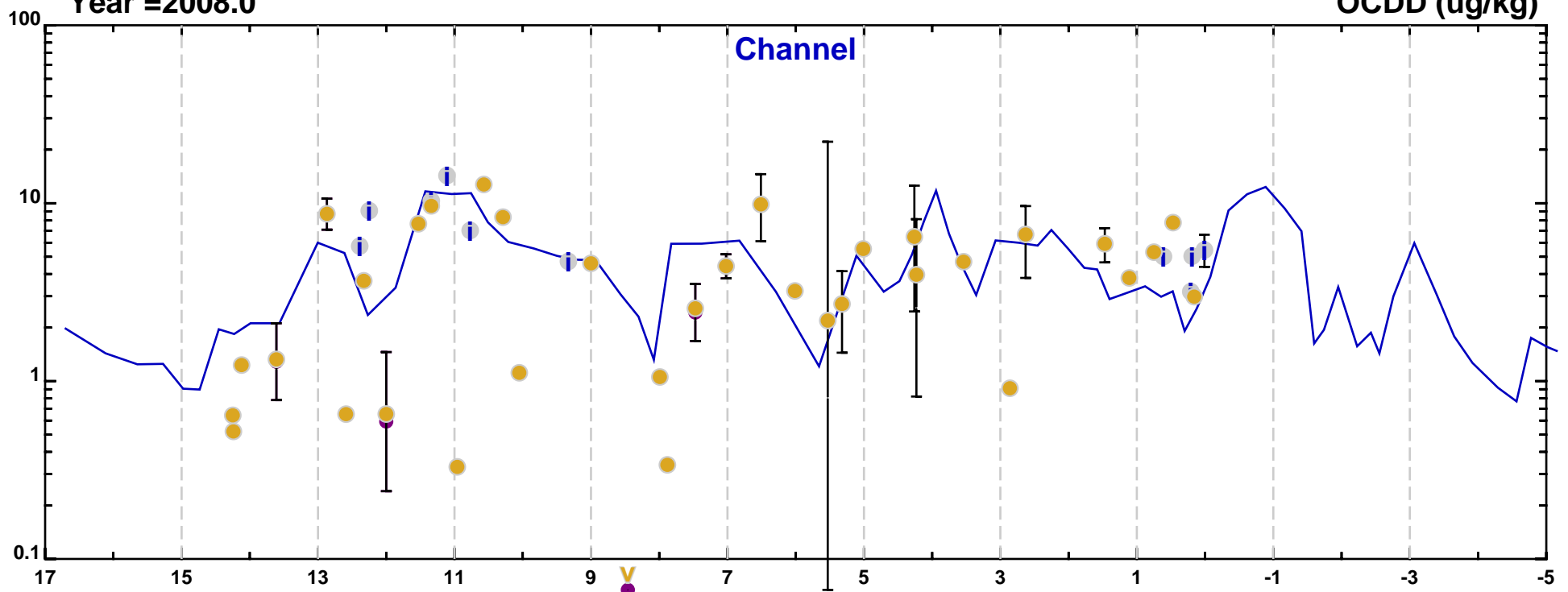
River Mile

Year =2008.0

OCDD (ug/kg)

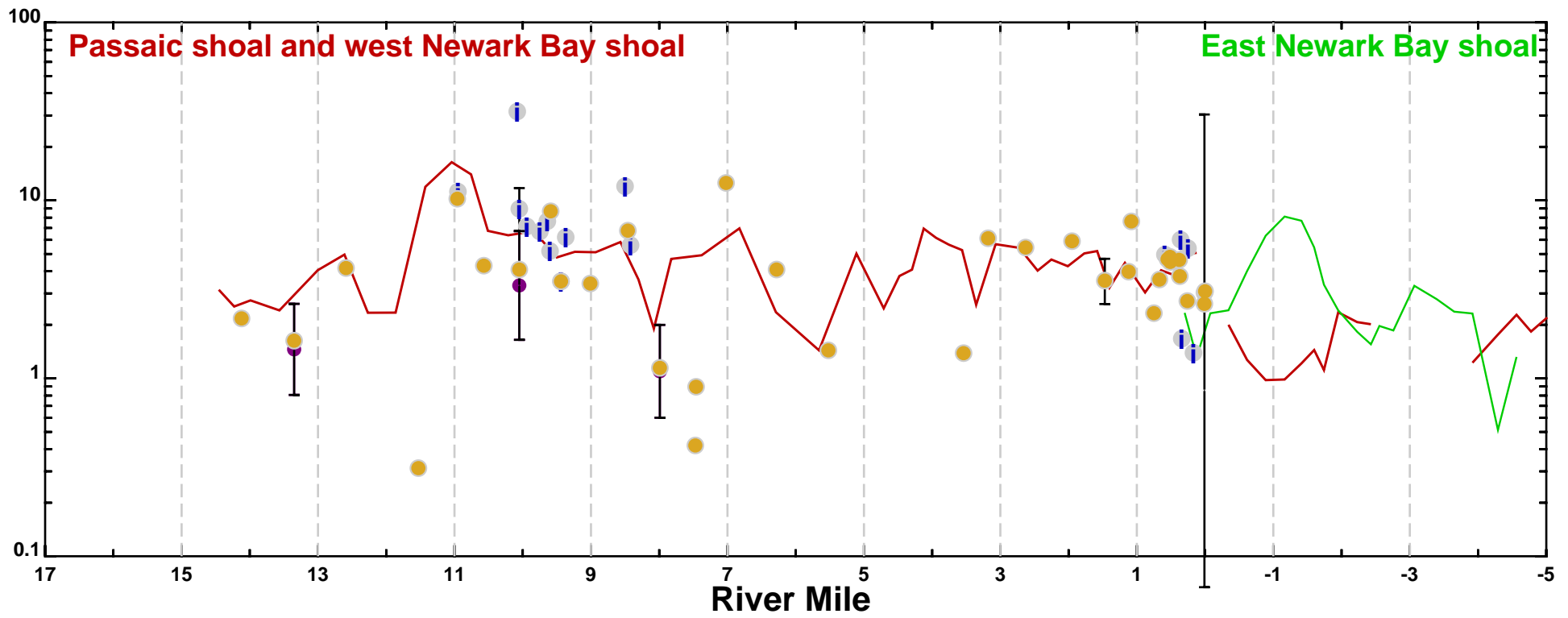
Top 15cm Conc. (ug/kg-DW)

Channel



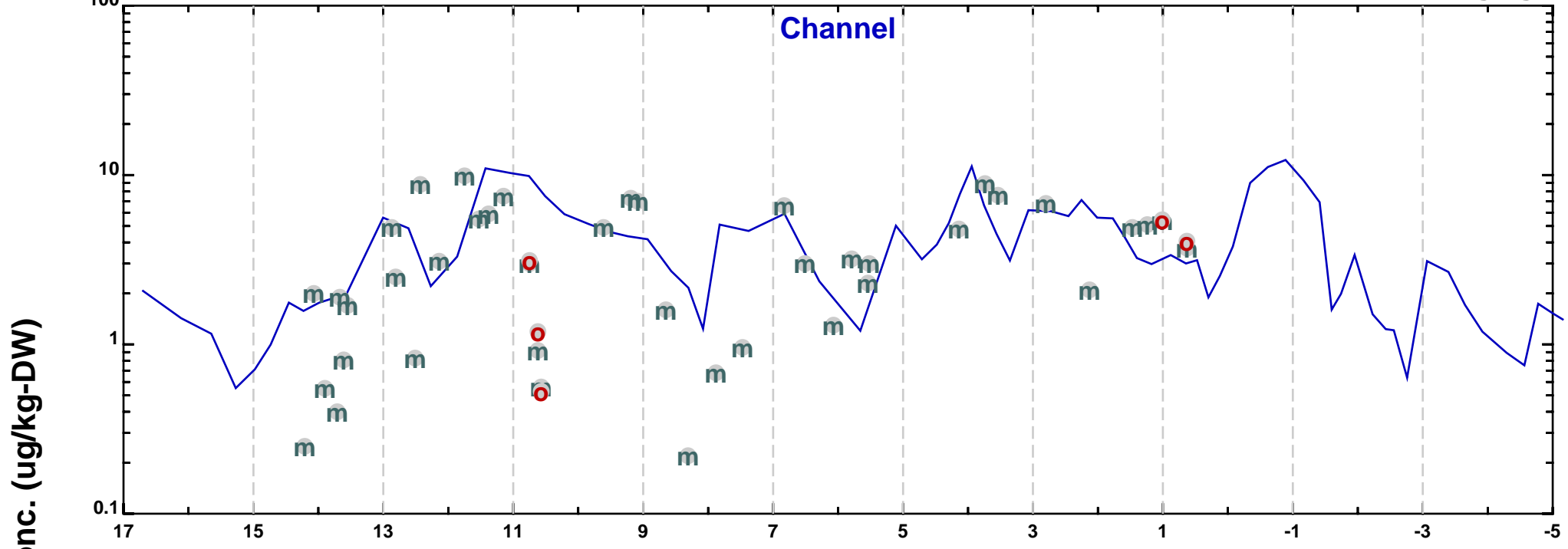
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



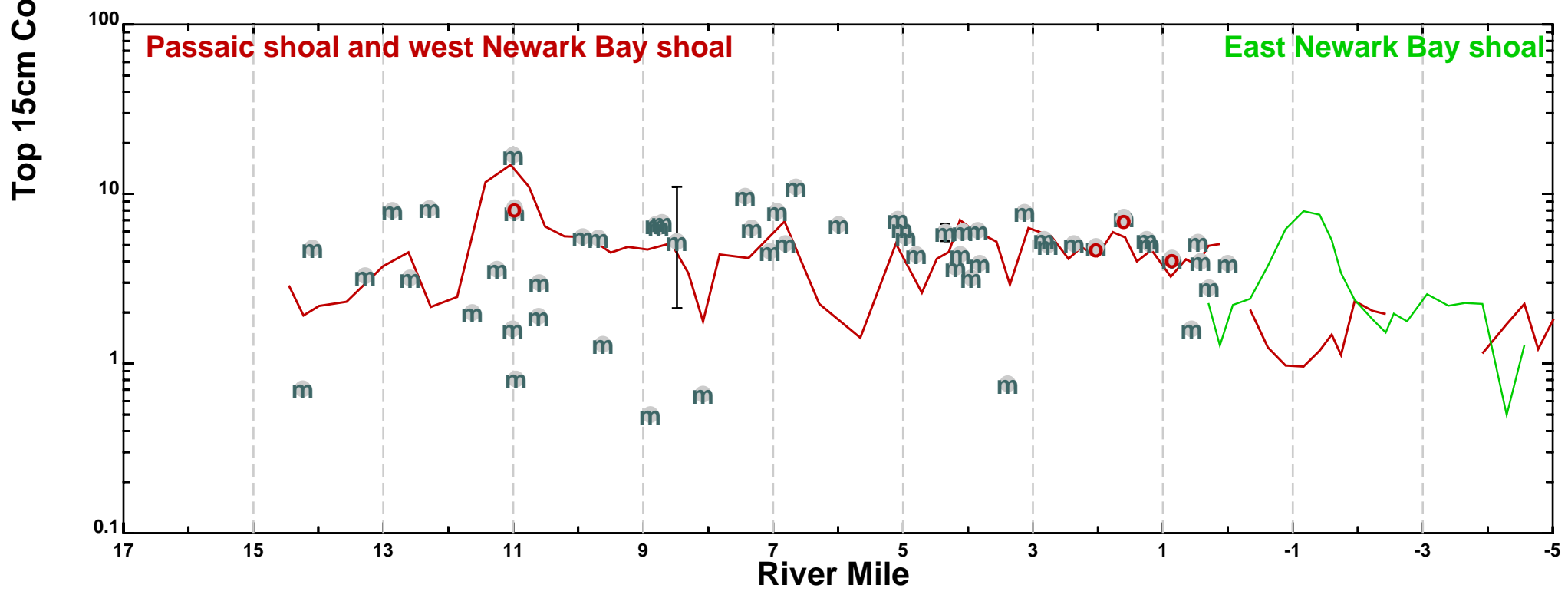
Year =2009.0

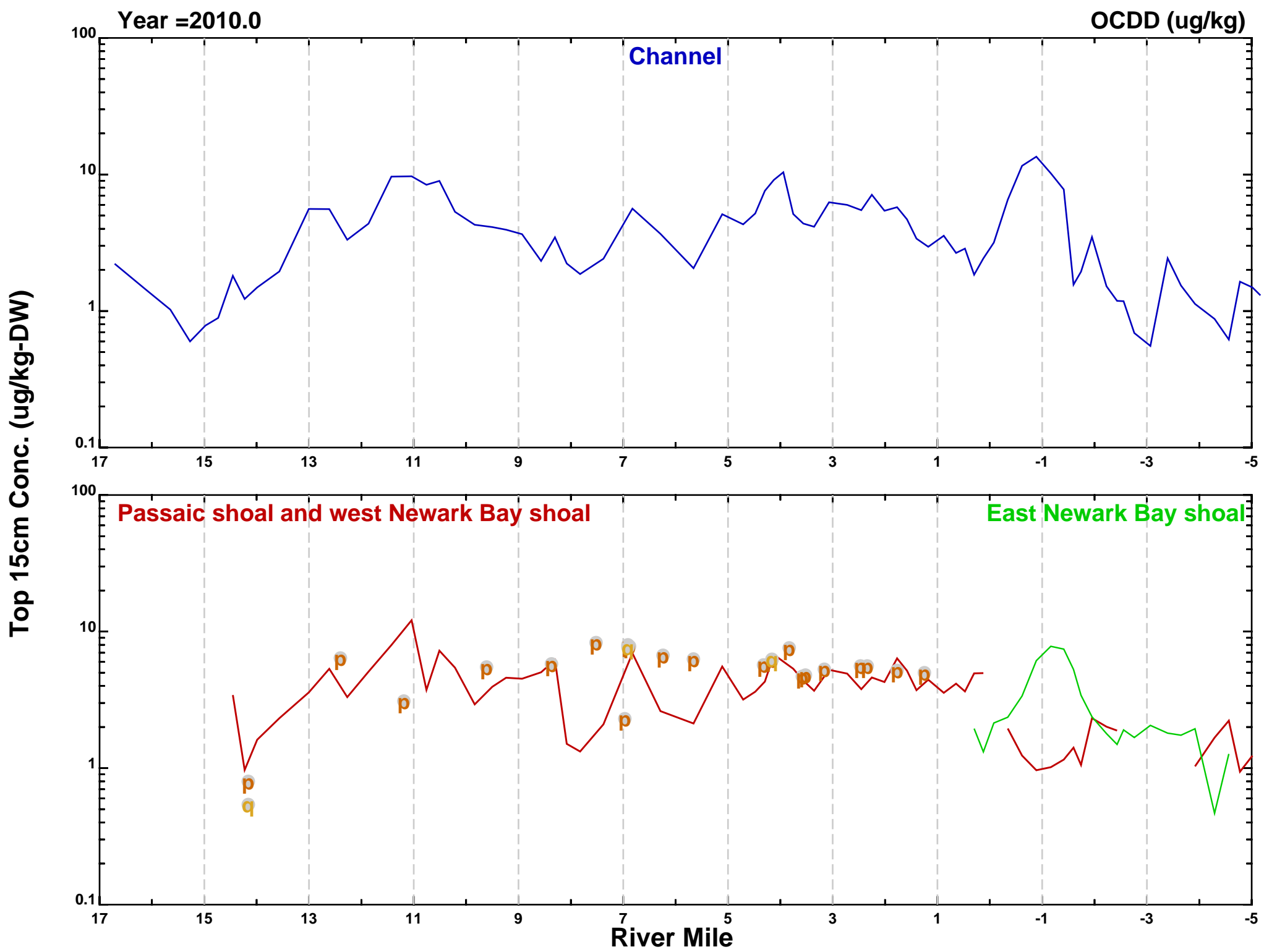
OCDD (ug/kg)

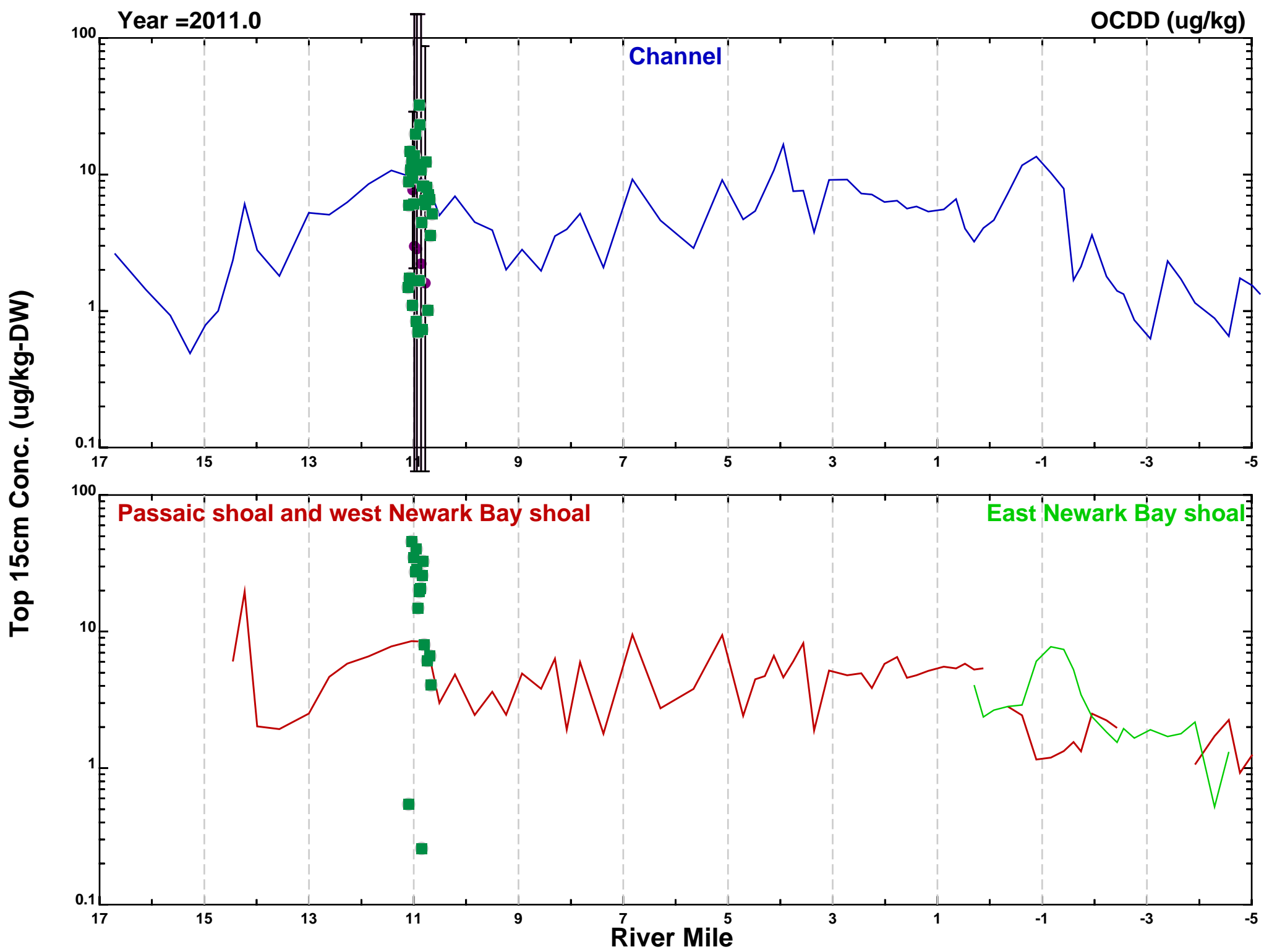


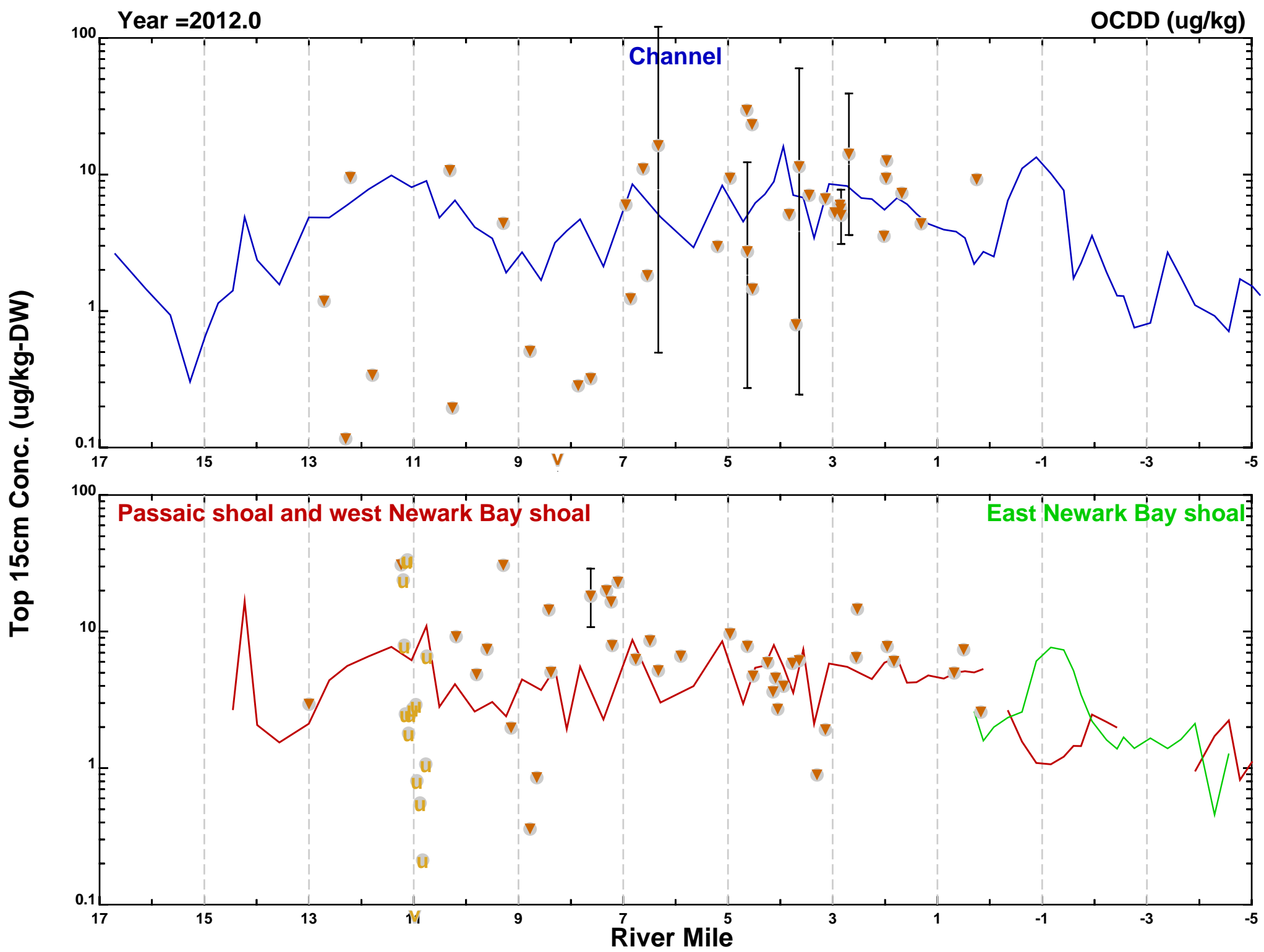
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



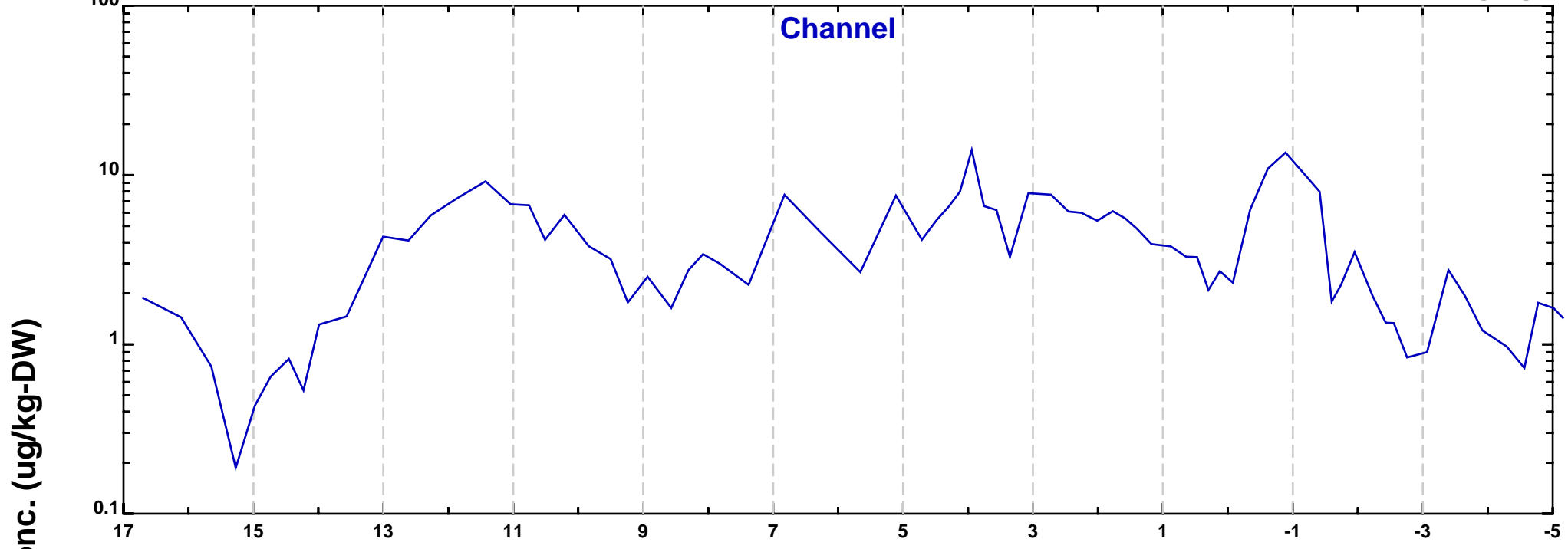






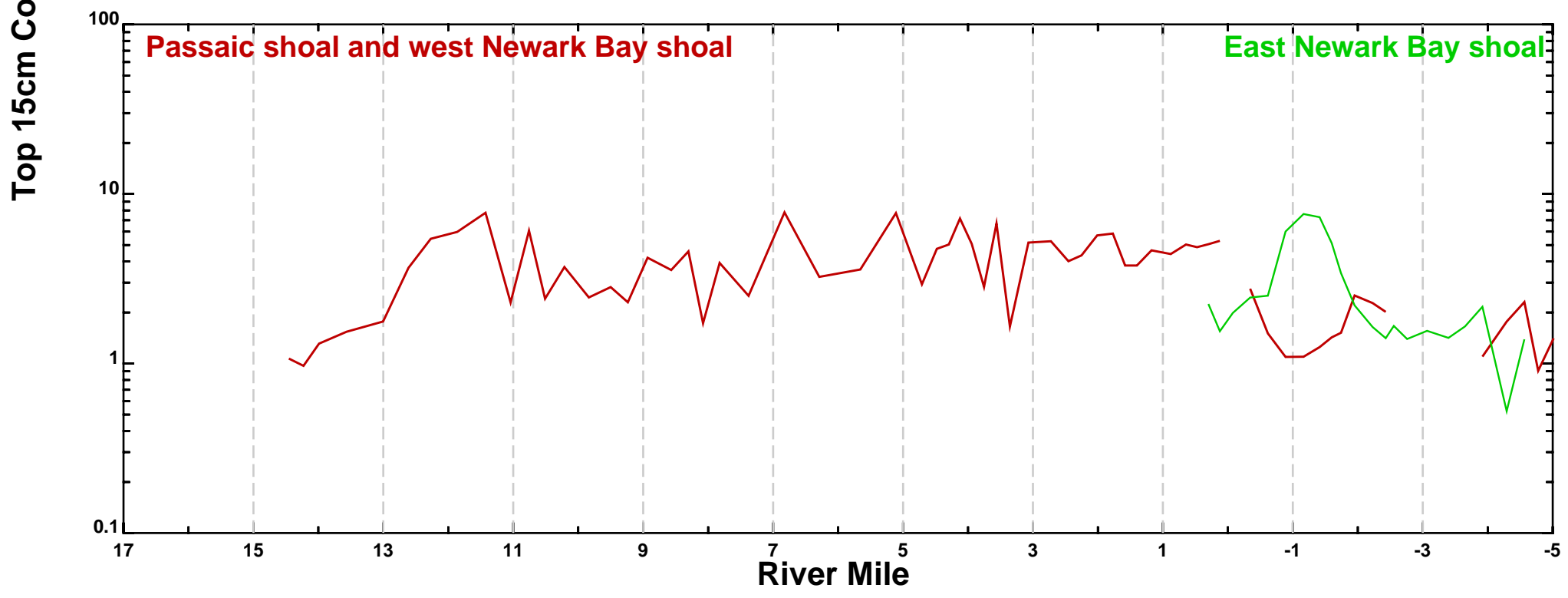
Year =2013.0

OCDD (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





**INITIAL CONDITIONS**

**1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)**

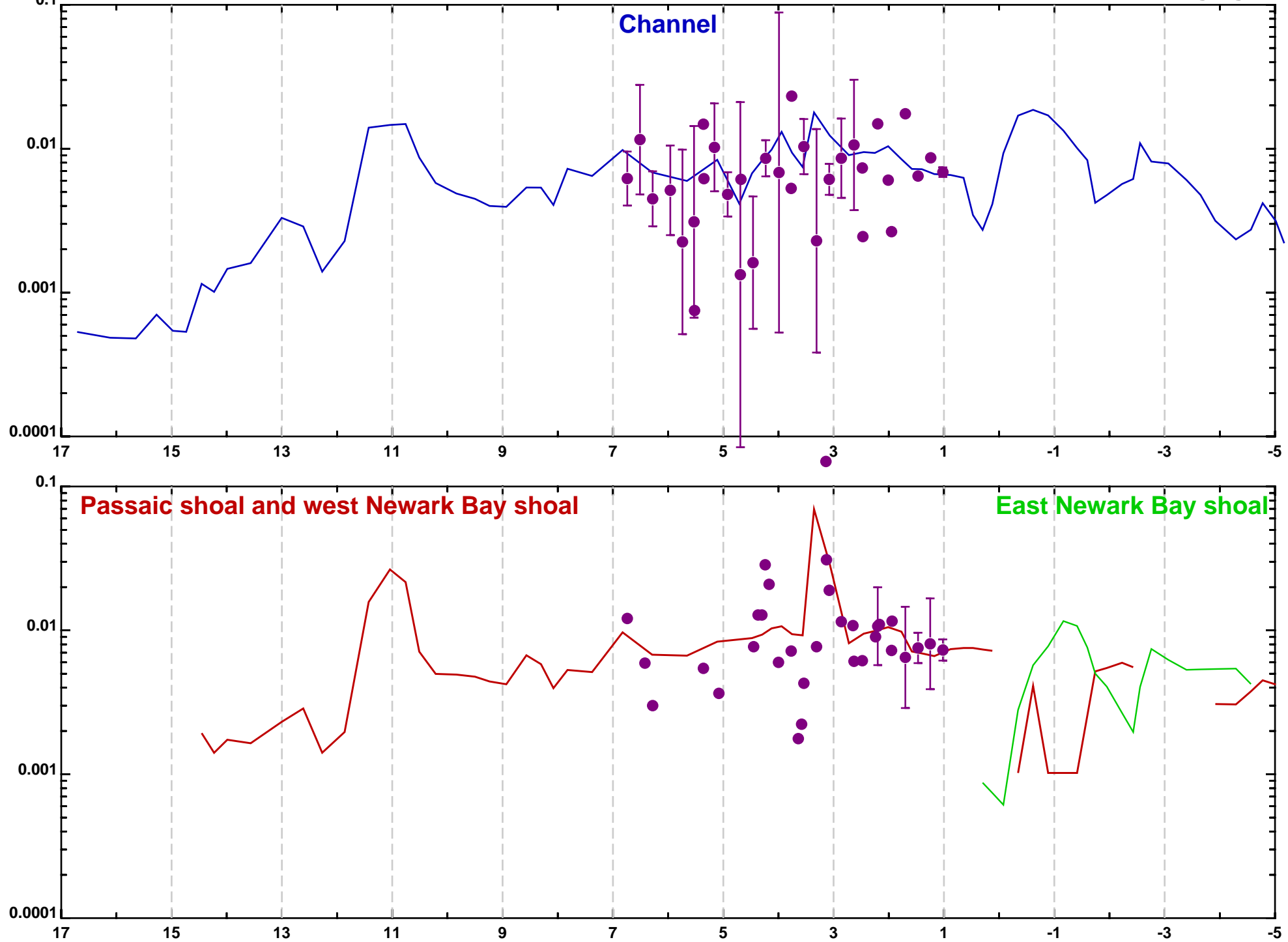
**Top 15cm Conc. (ug/kg-DW)**

**Channel**

**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**

**River Mile**



Year = 1996.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

Top 15cm Conc. (ug/kg-DW)

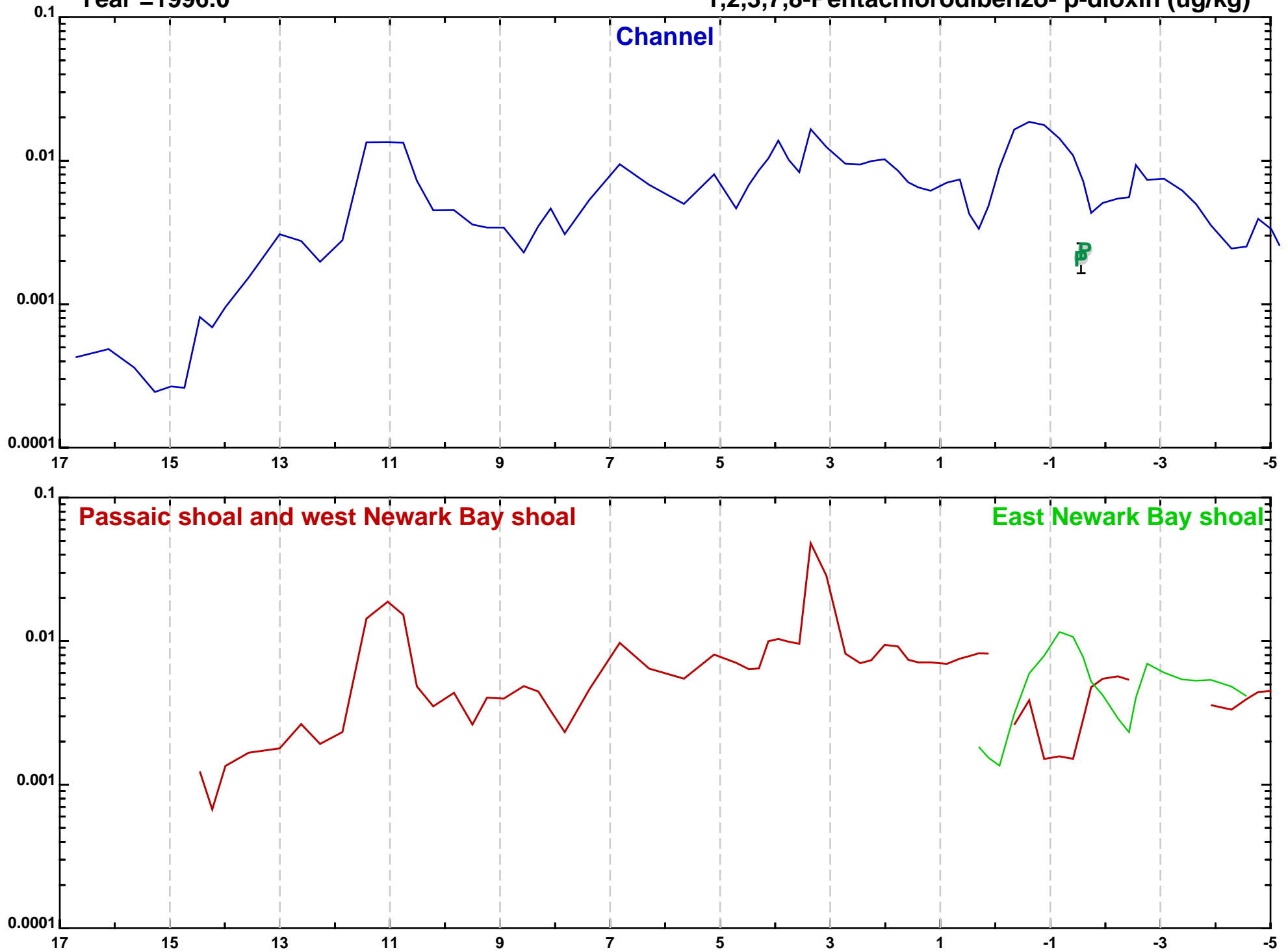
Channel

PAH

Passaic shoal and west Newark Bay shoal

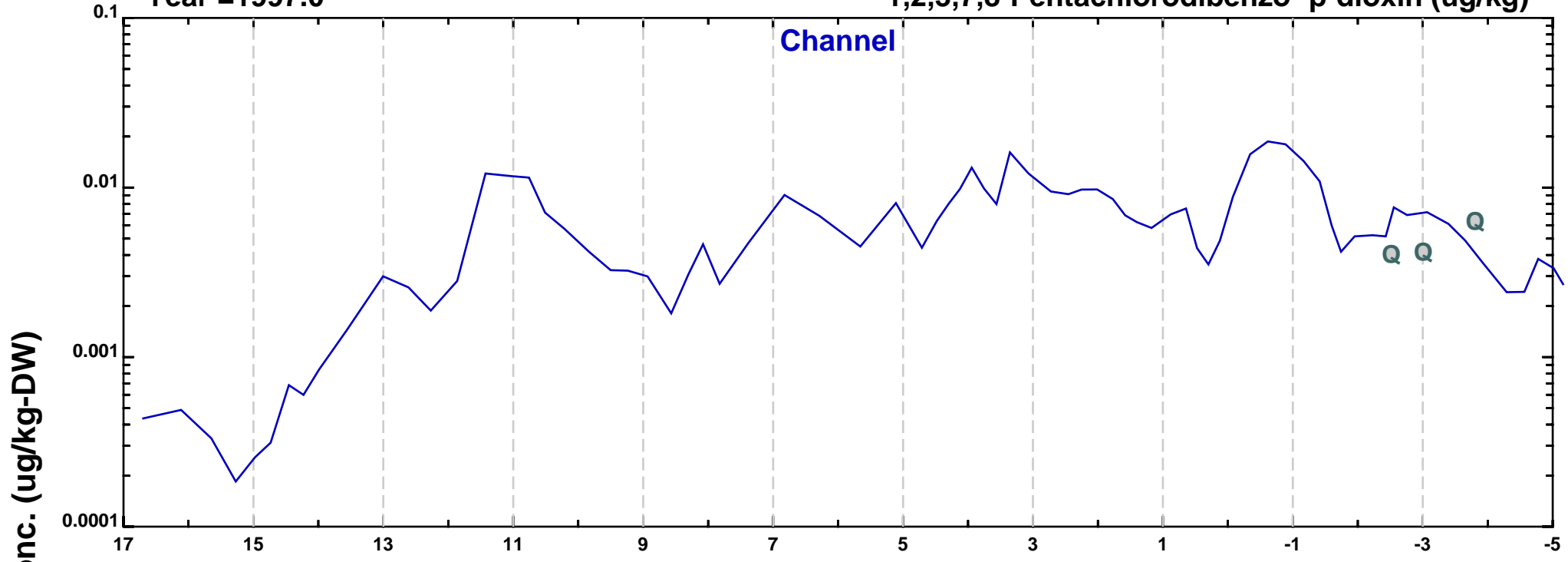
East Newark Bay shoal

River Mile



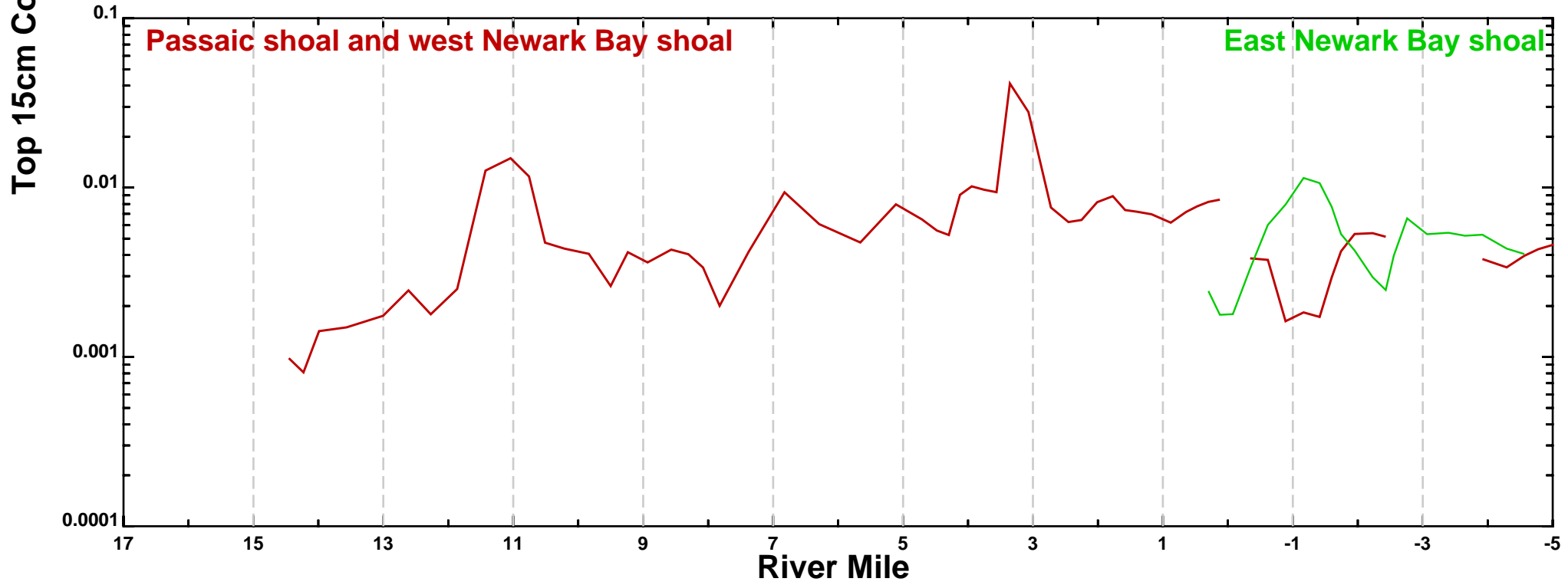
Year =1997.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



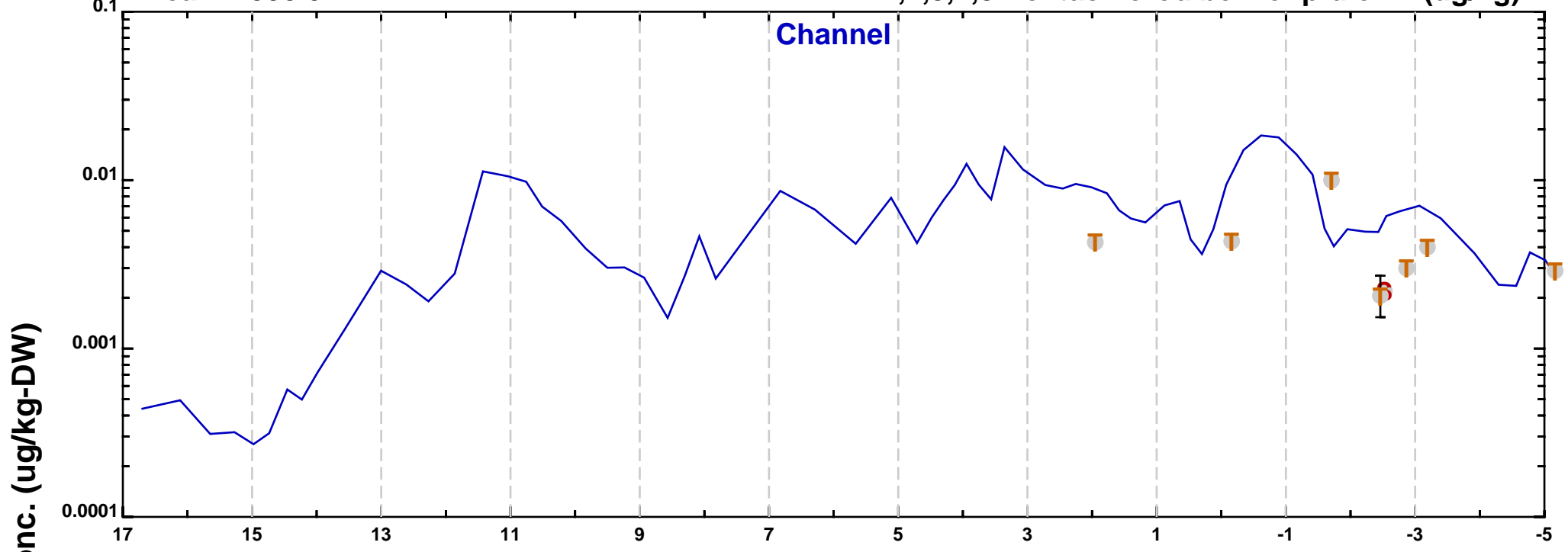
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



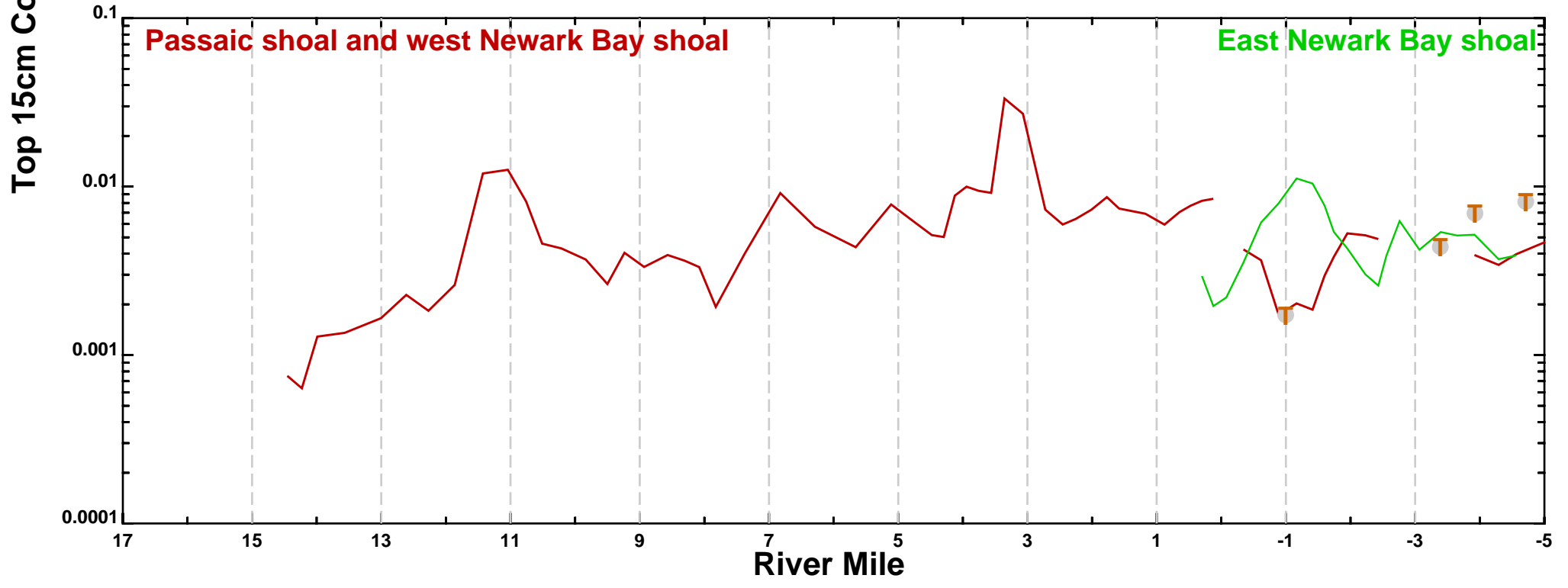
Year =1998.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

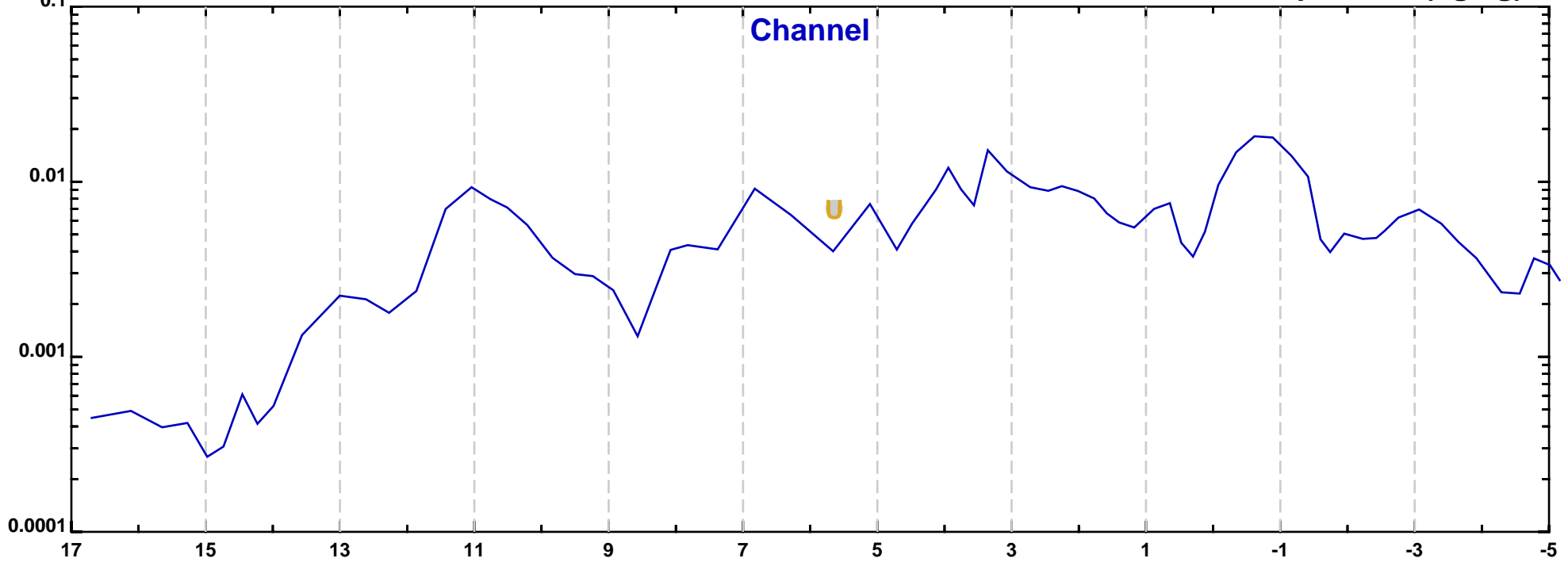


Year = 1999.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

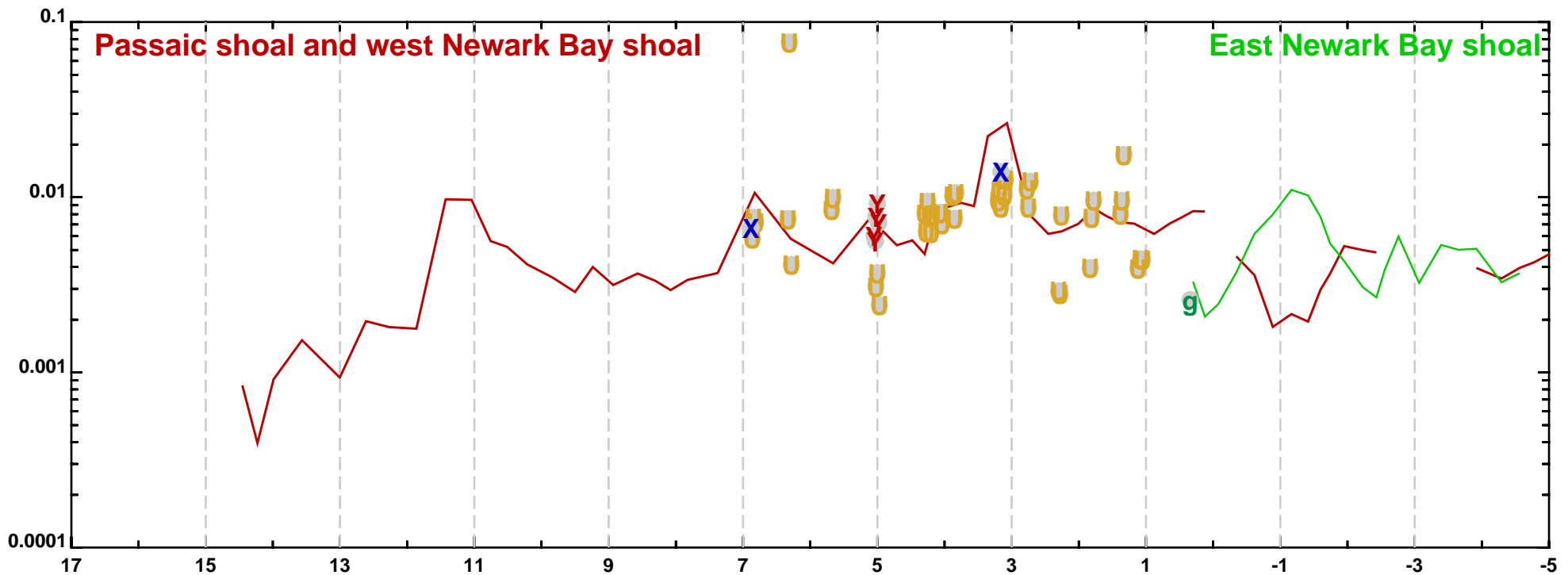
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

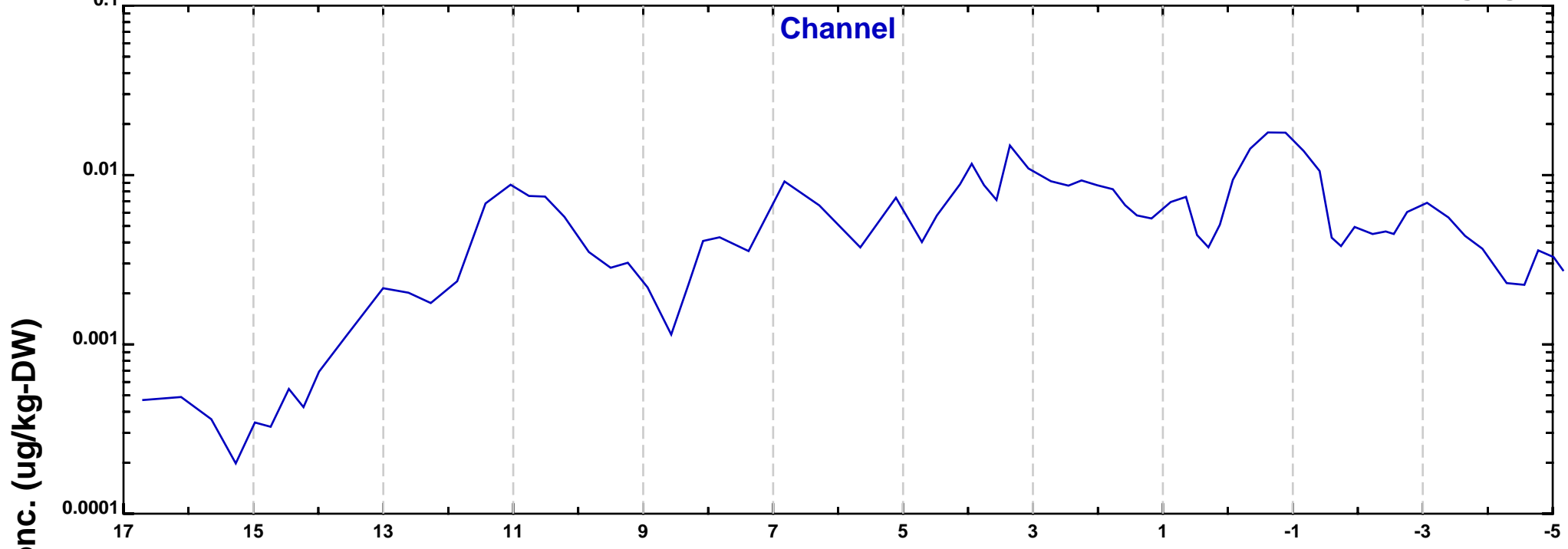
East Newark Bay shoal



River Mile

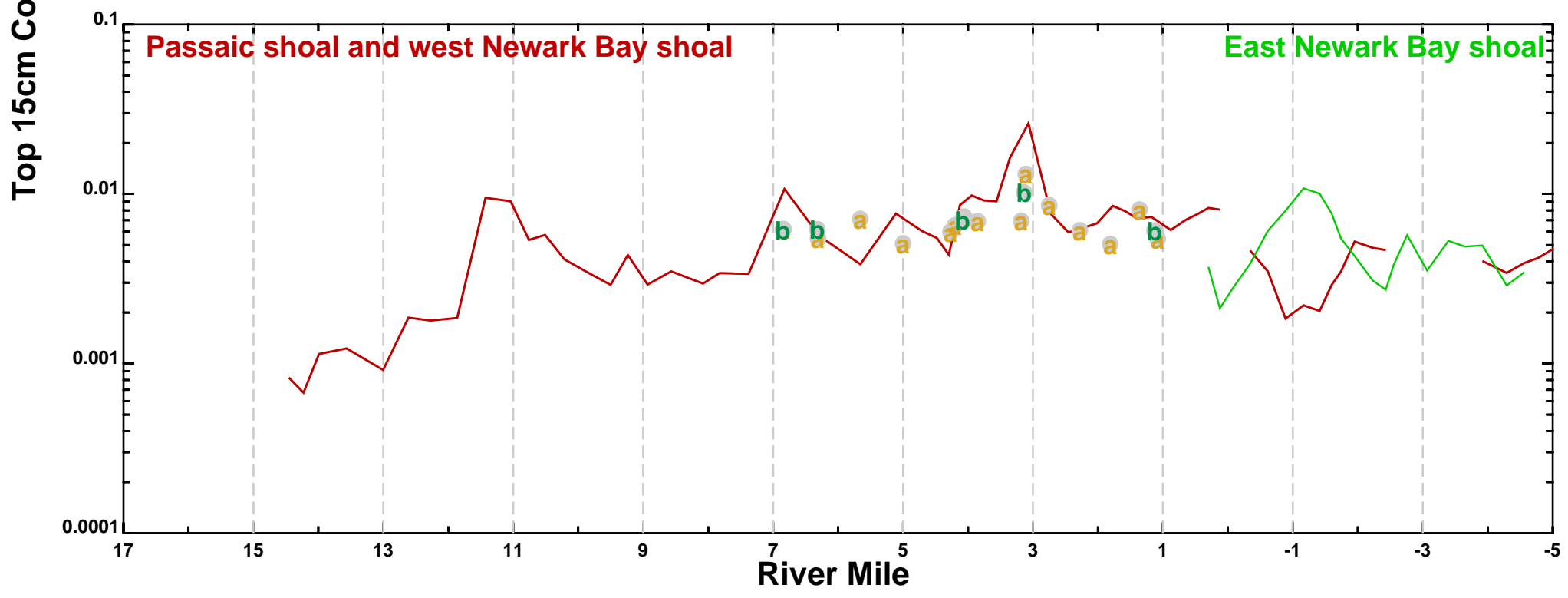
Year =2000.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



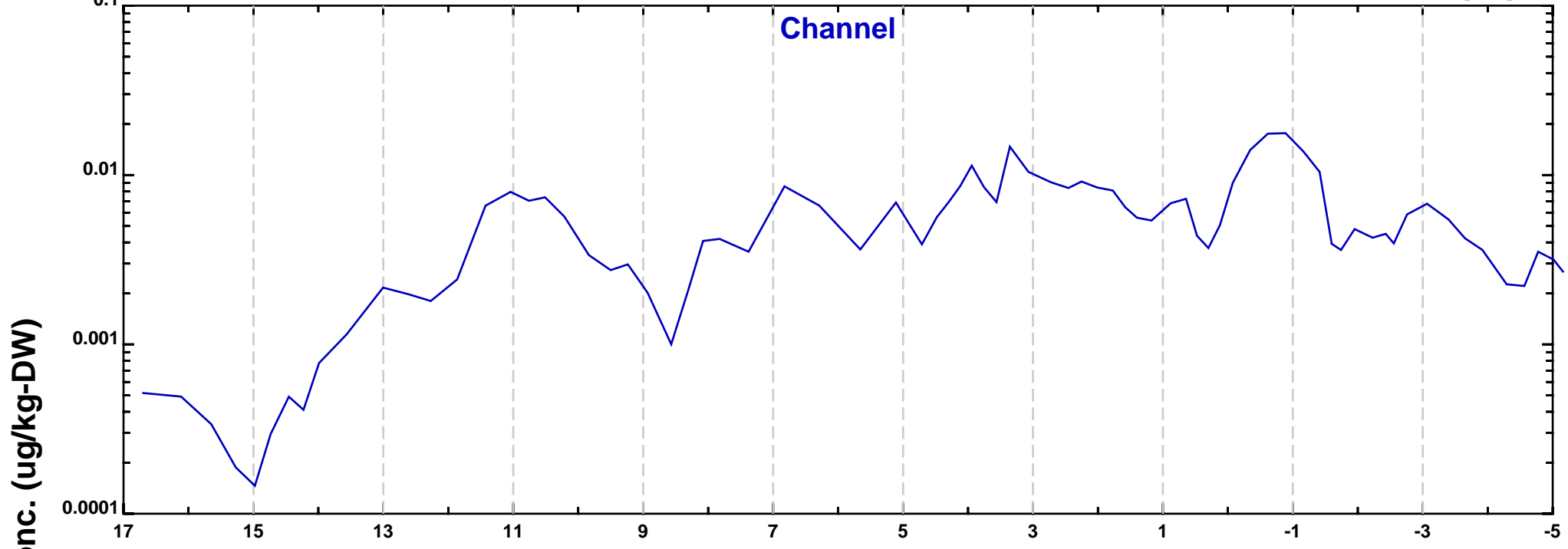
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



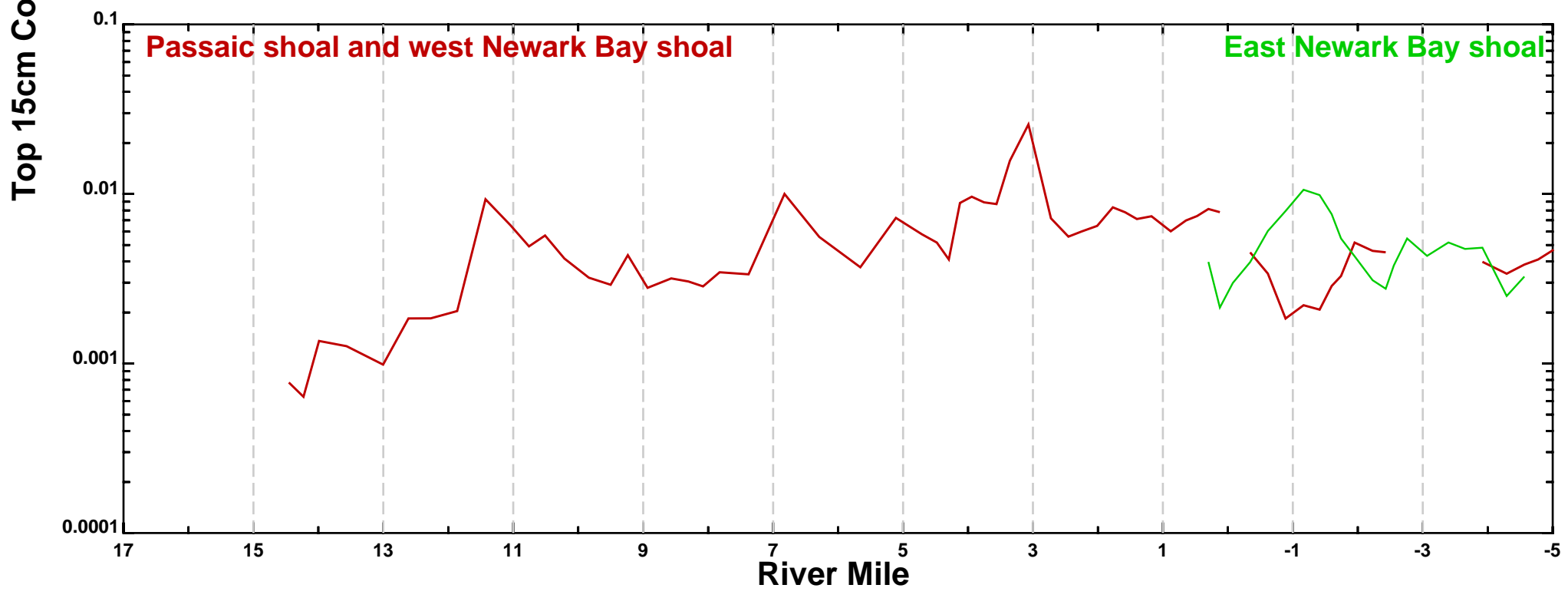
Year =2001.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

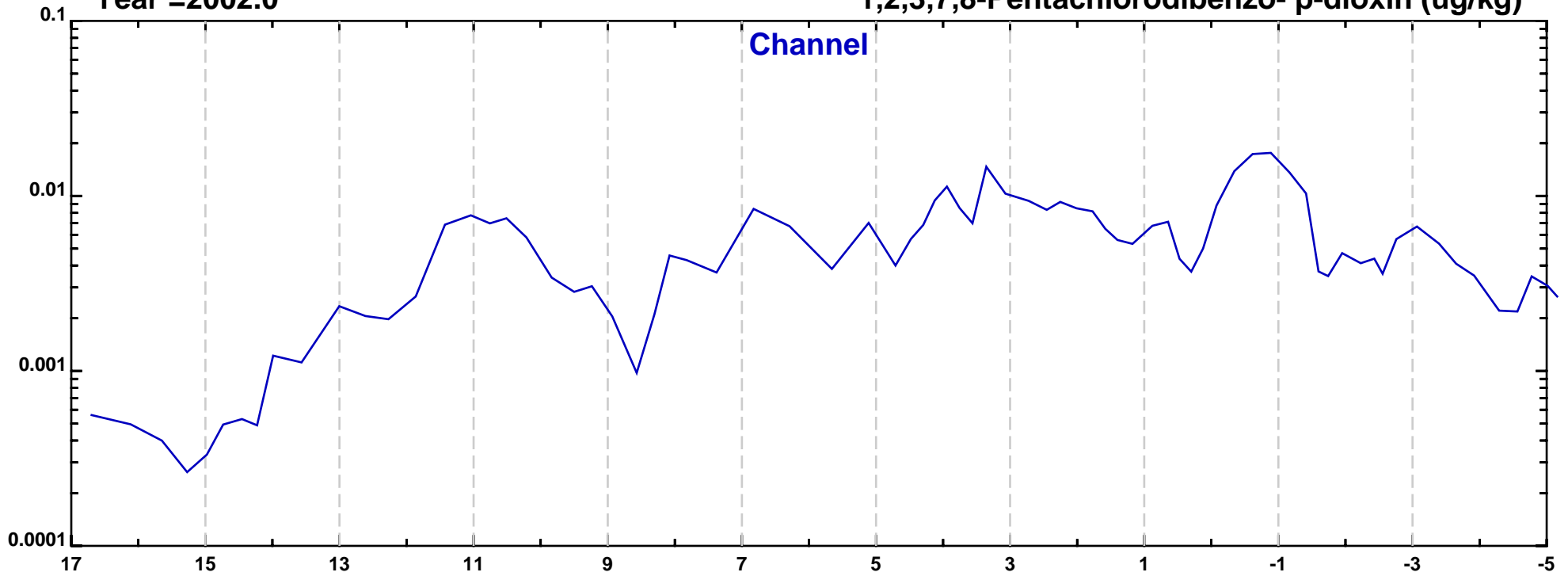


Year =2002.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

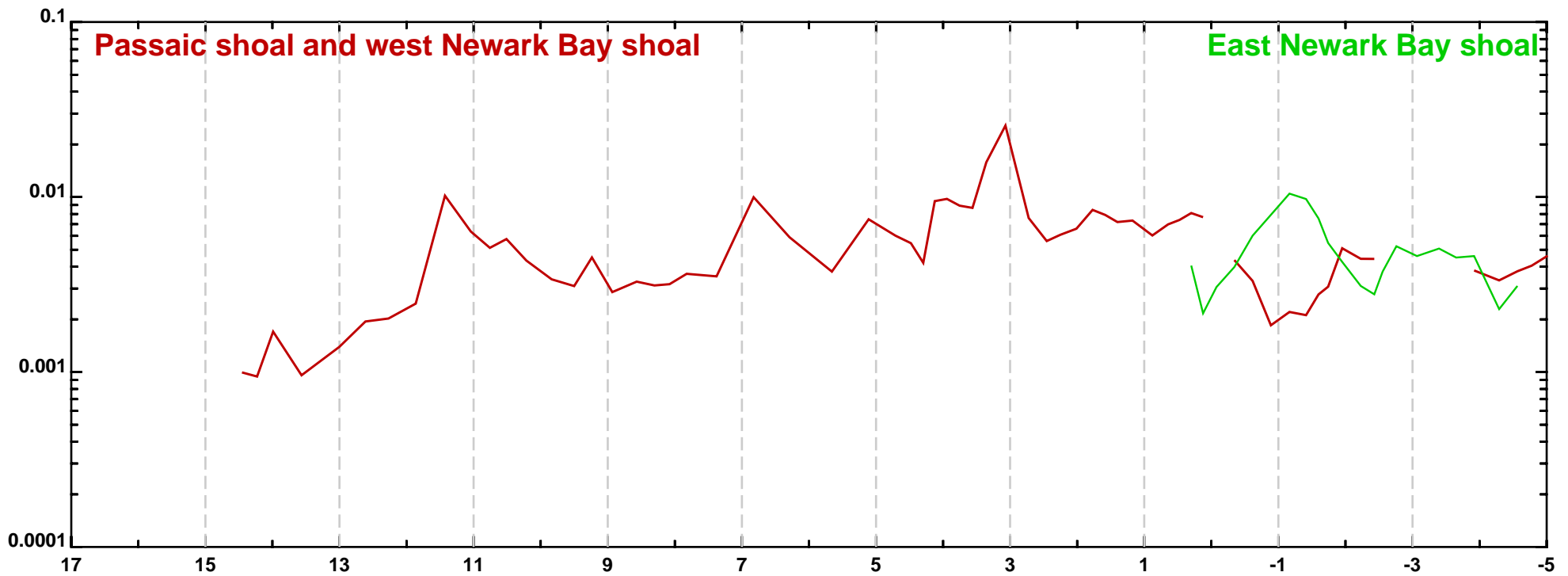
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

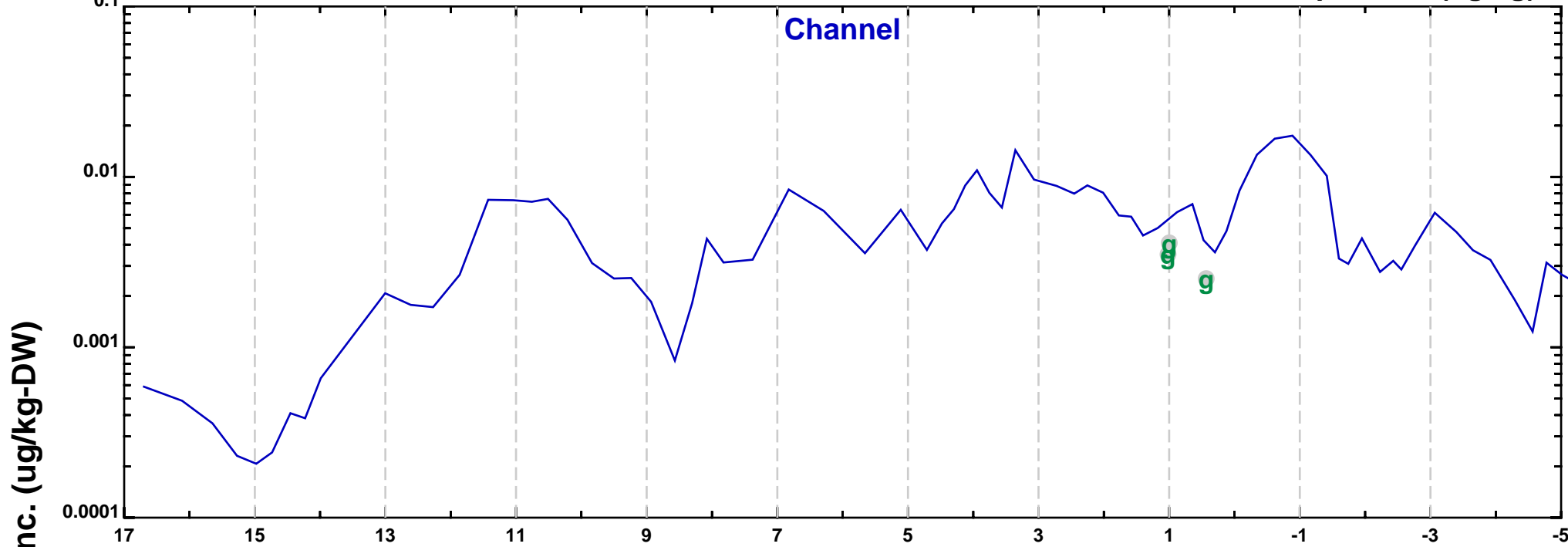


River Mile



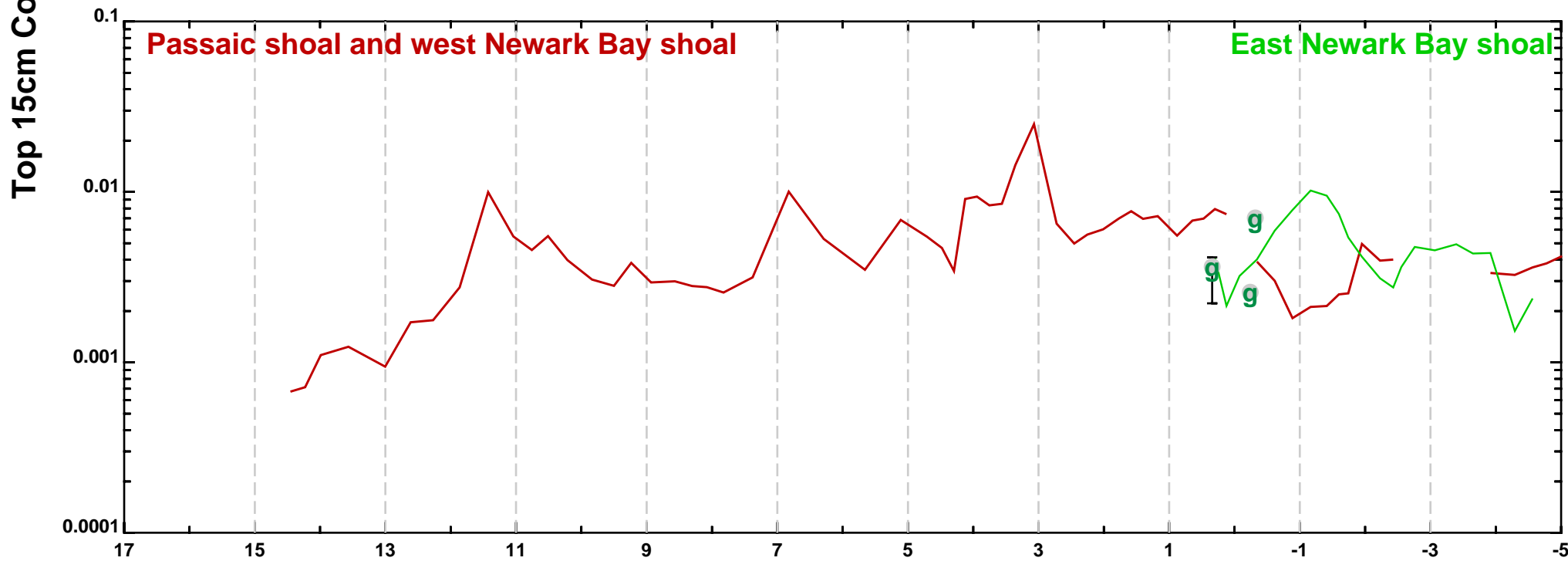
Year =2003.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



Passaic shoal and west Newark Bay shoal

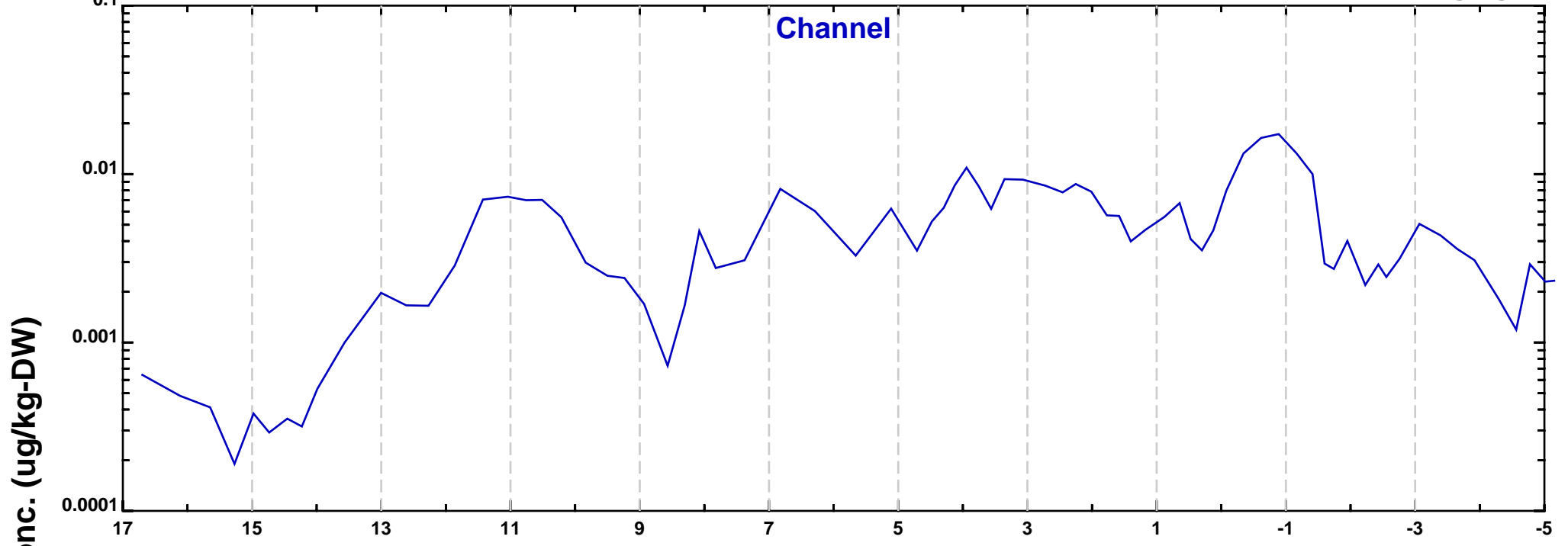
East Newark Bay shoal



River Mile

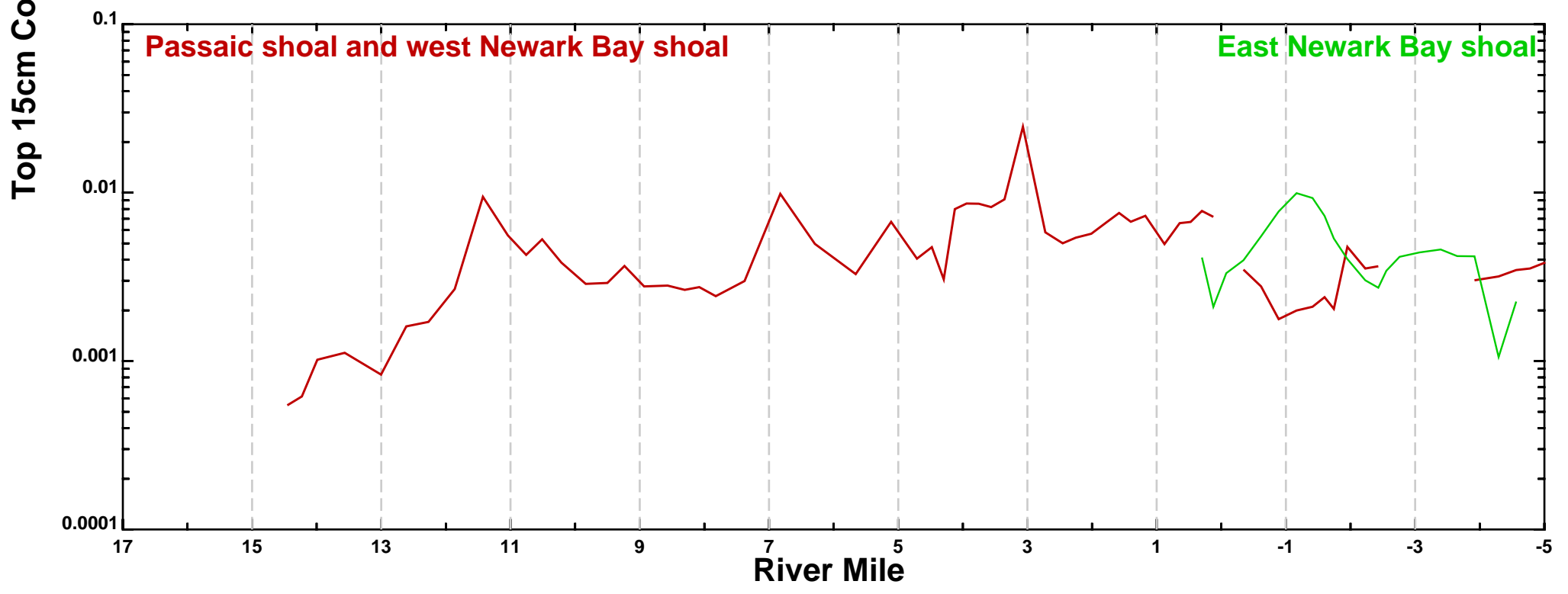
Year =2004.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



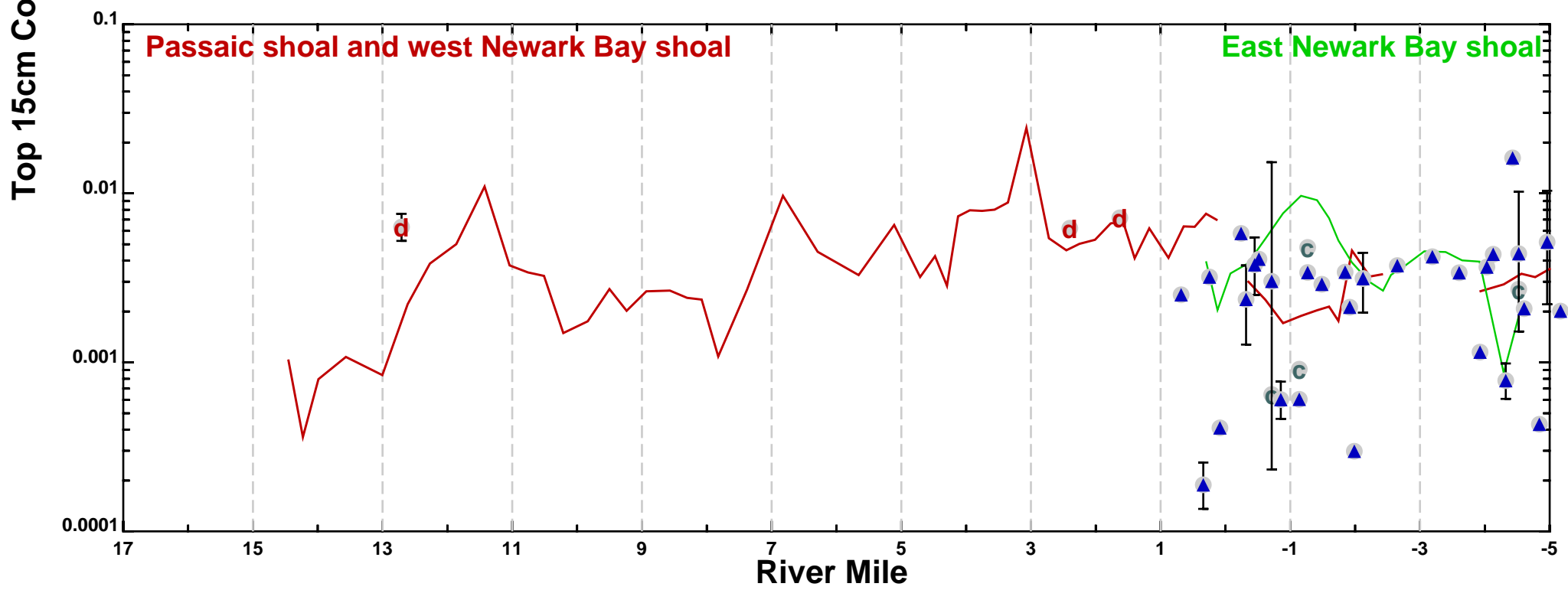
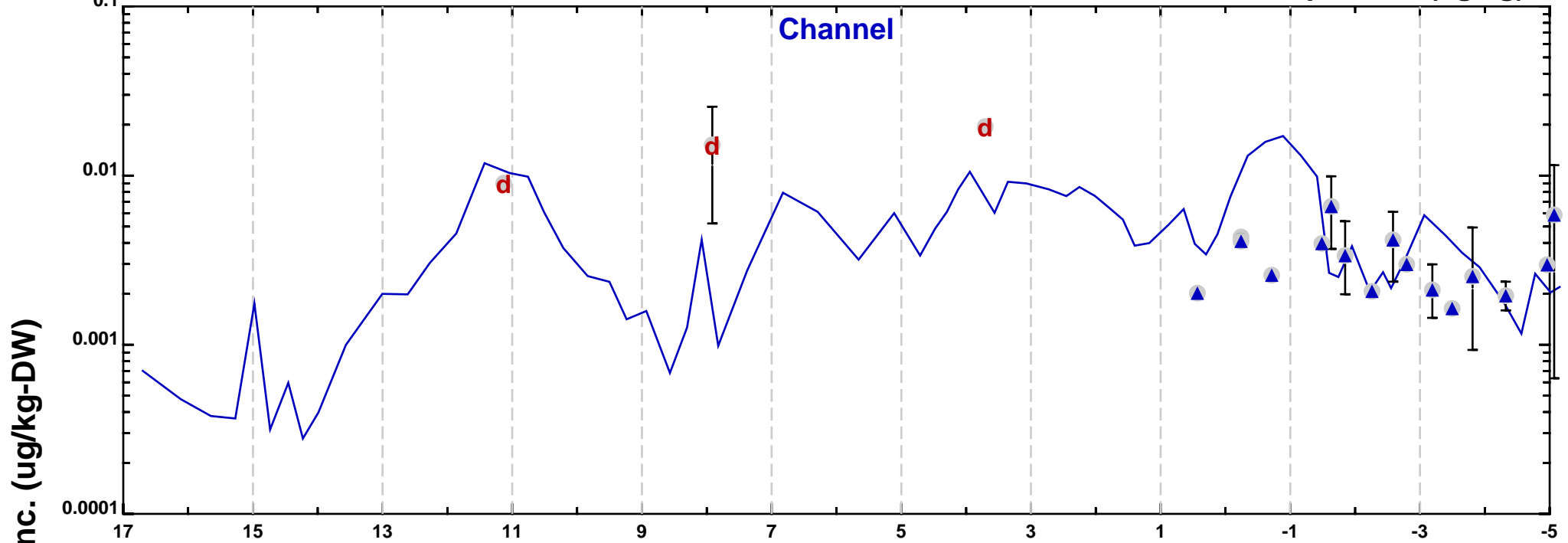
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



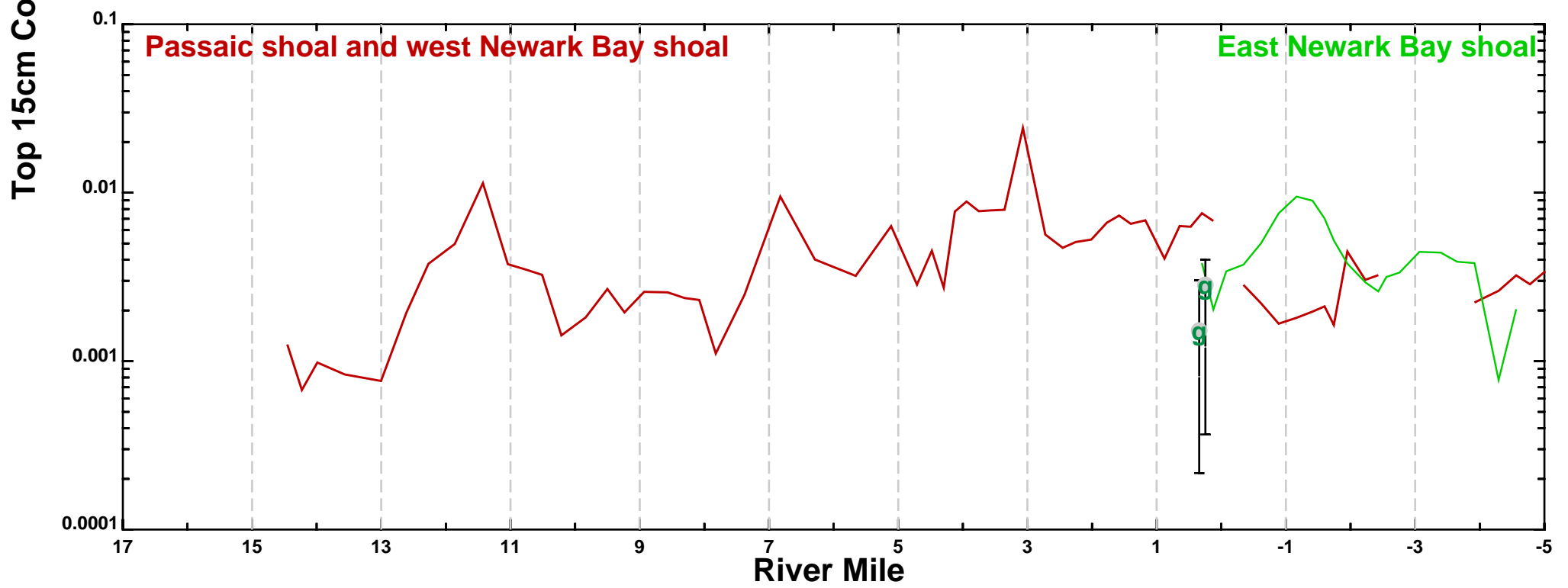
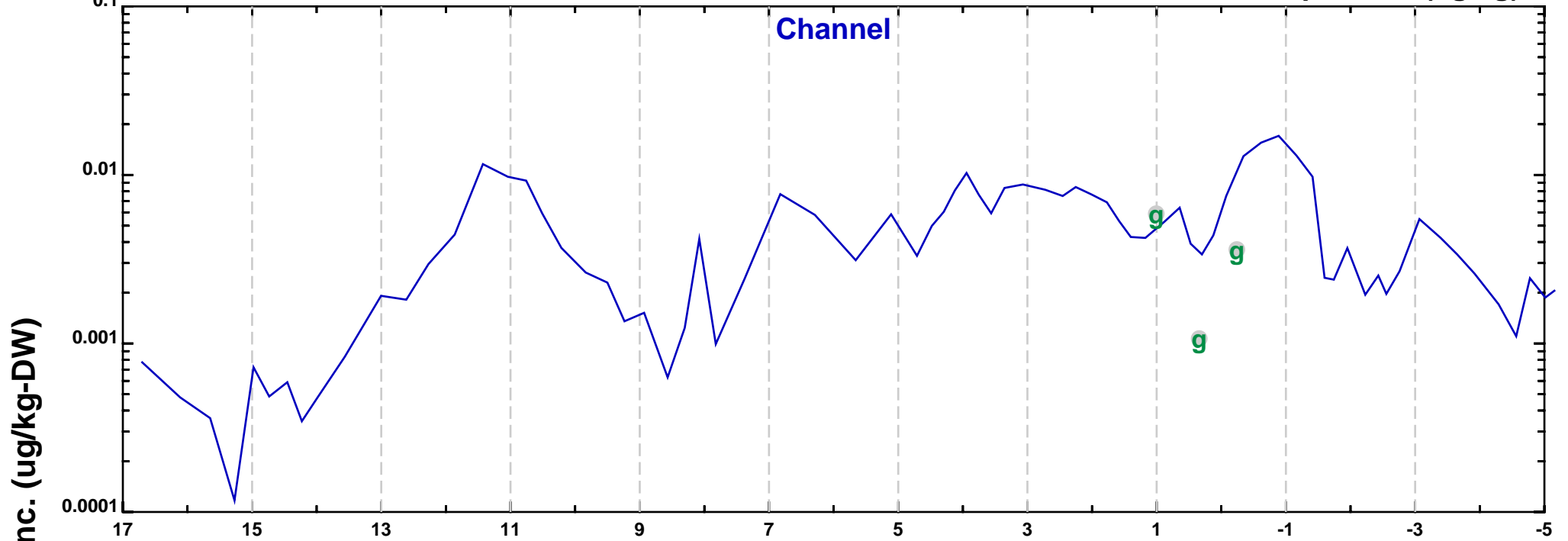
Year =2005.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)



Year =2006.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

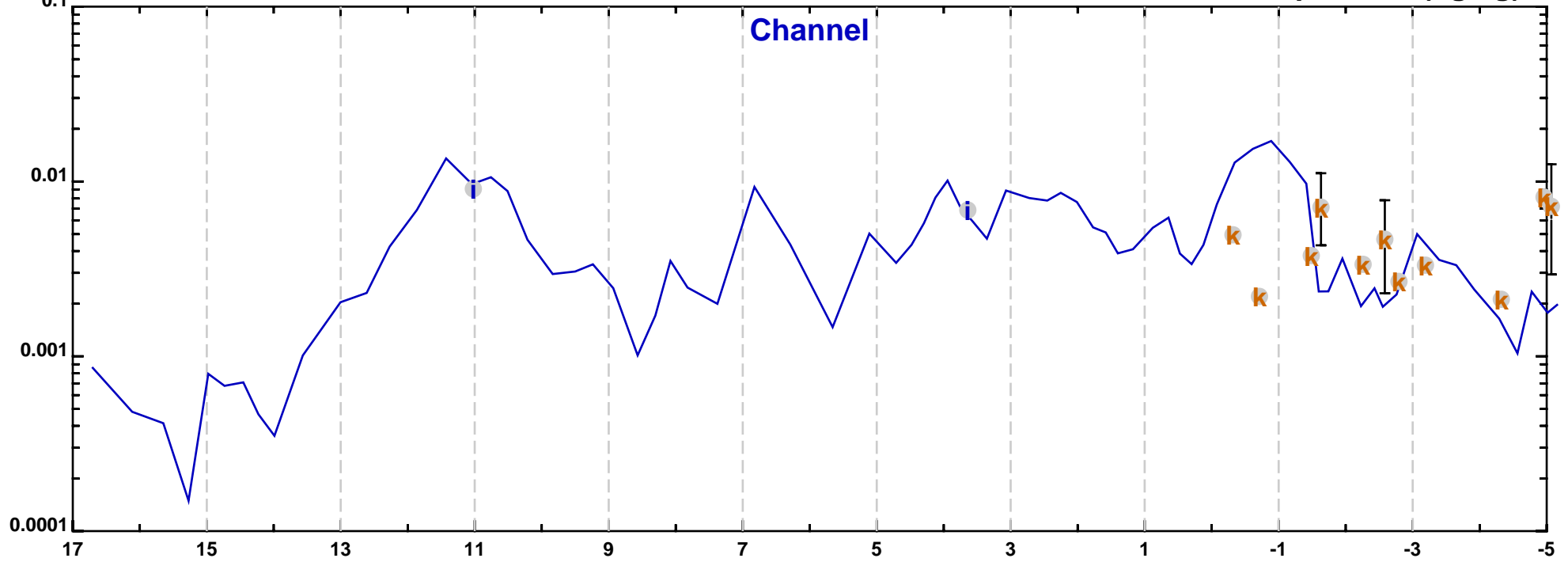


Year =2007.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

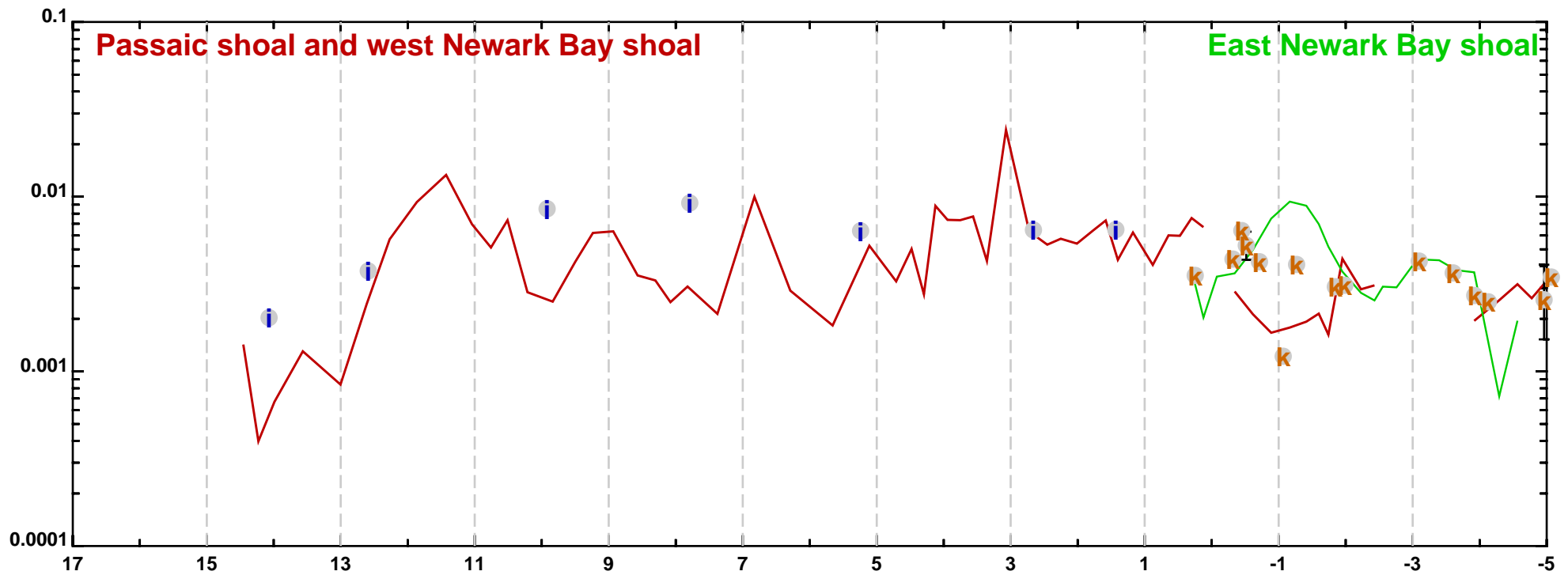
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



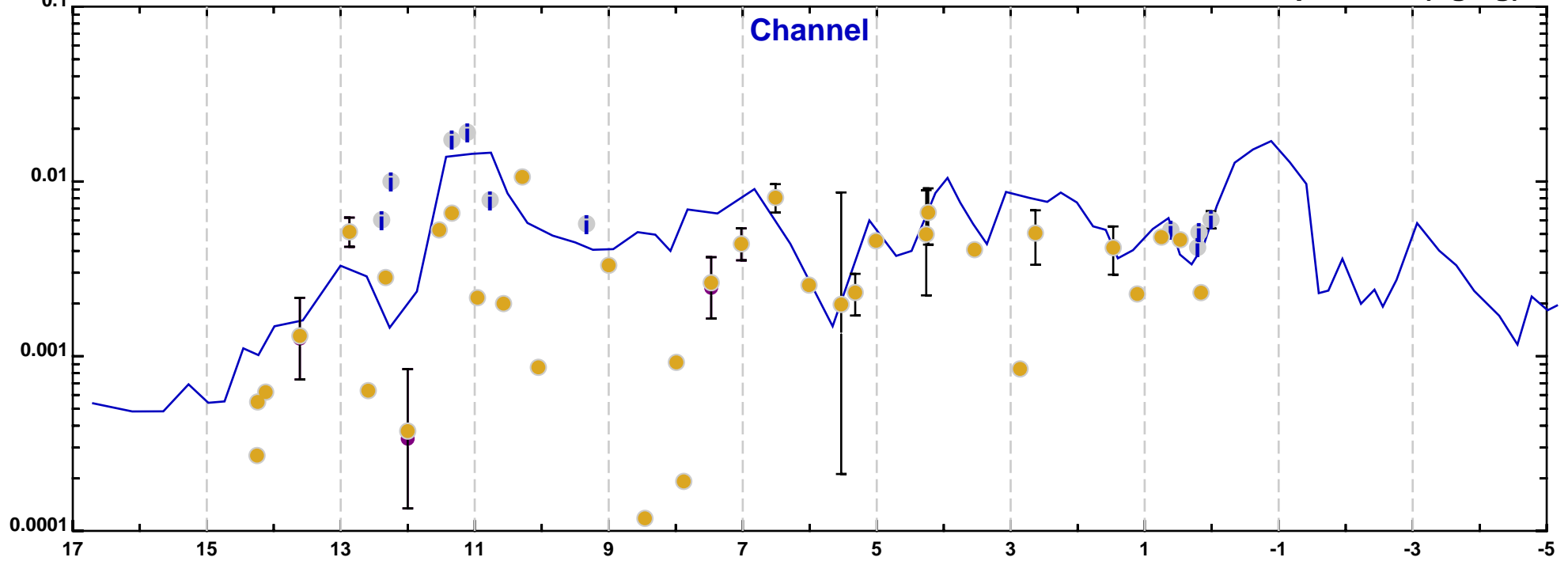
River Mile

Year =2008.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

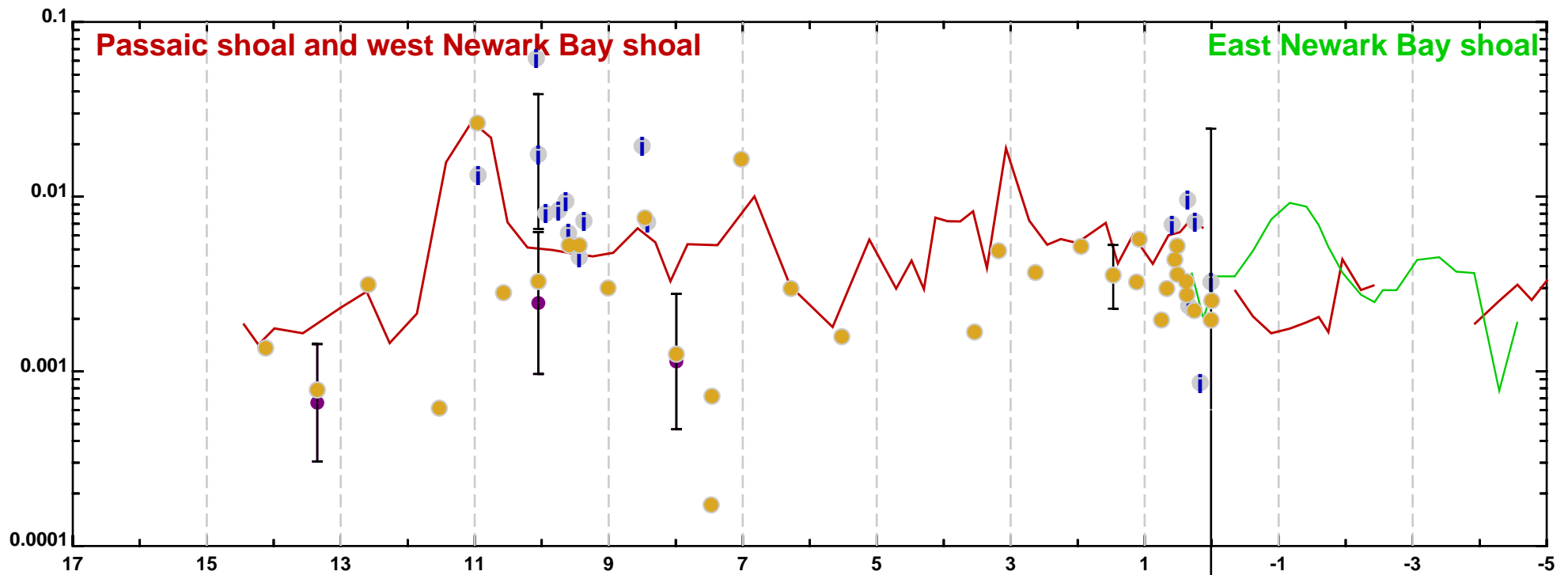
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

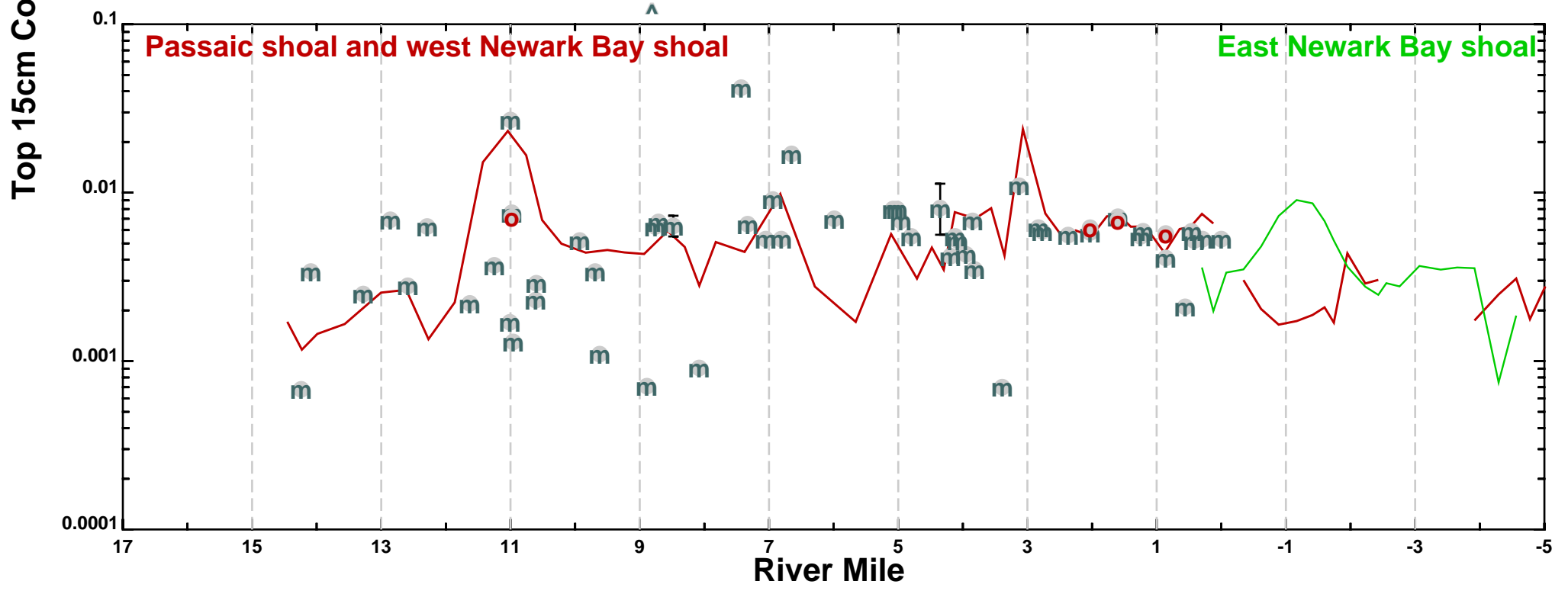
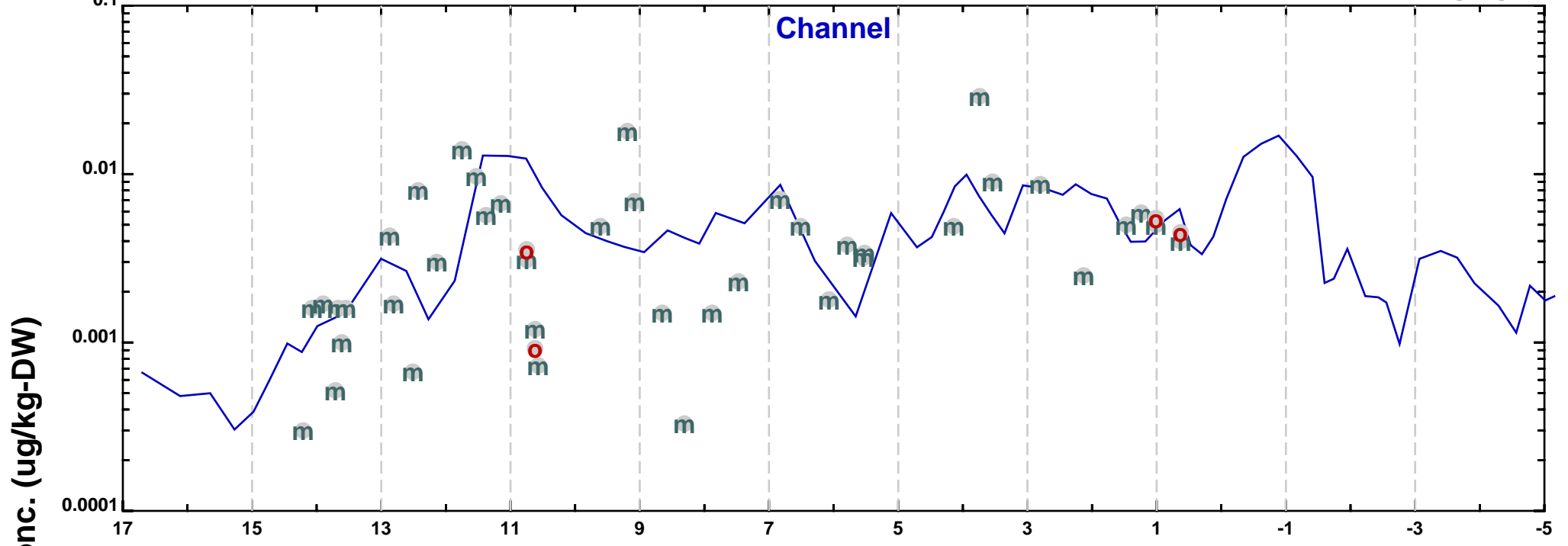
East Newark Bay shoal



River Mile

Year =2009.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

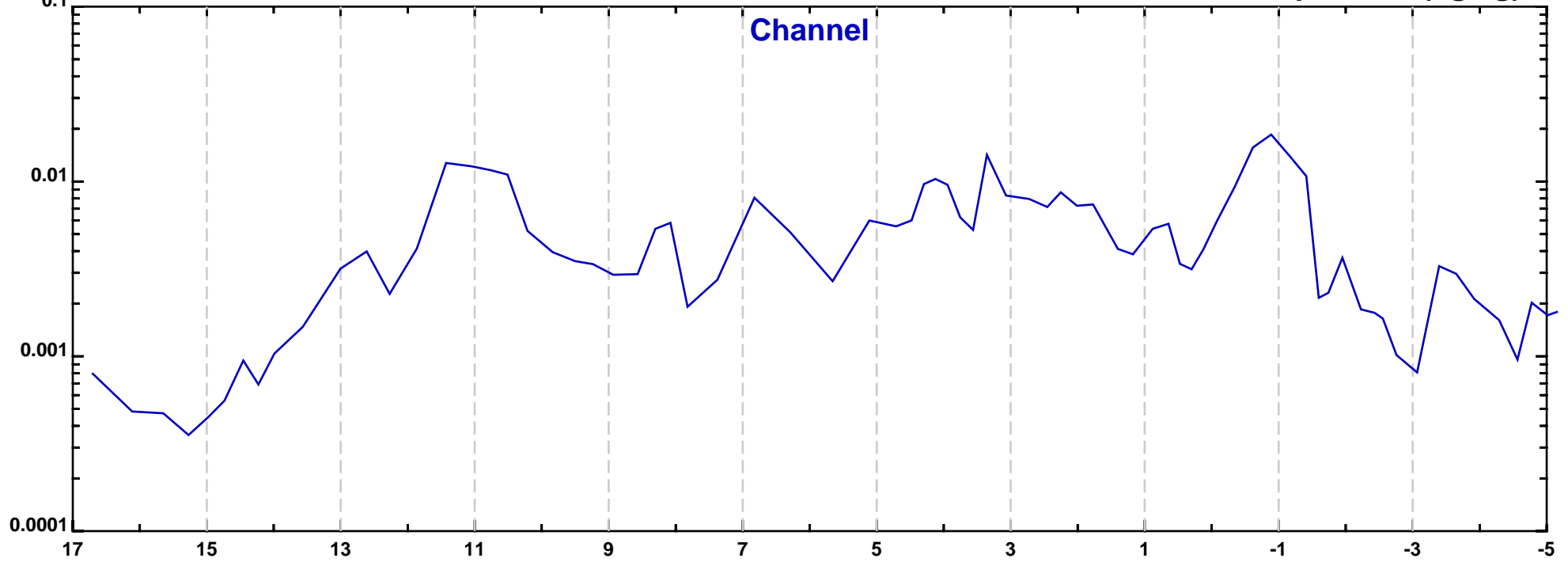


Year =2010.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

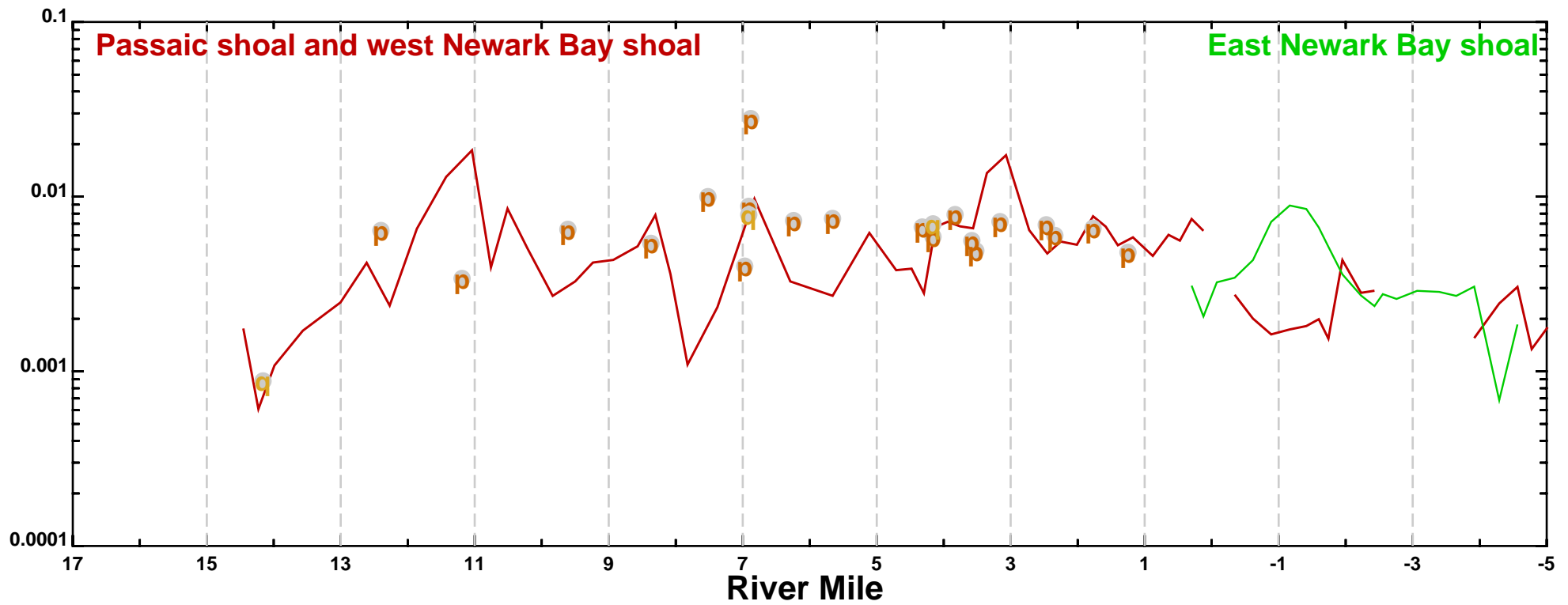
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



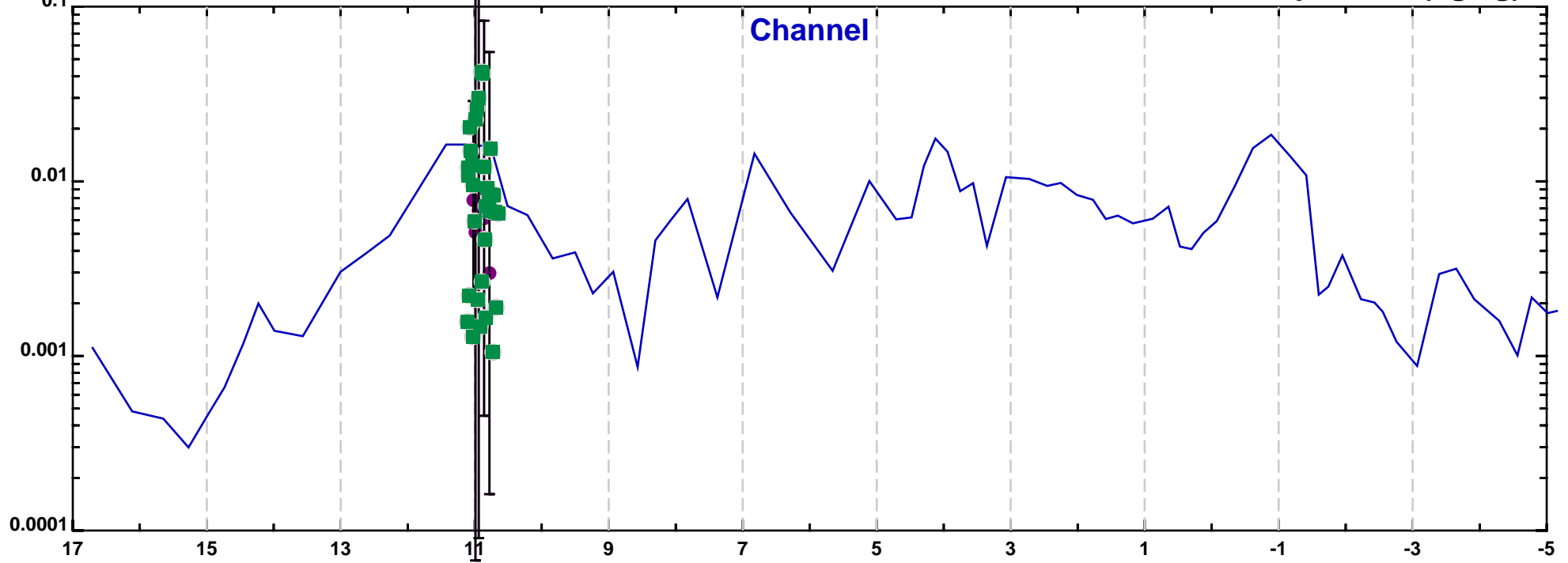


Year =2011.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

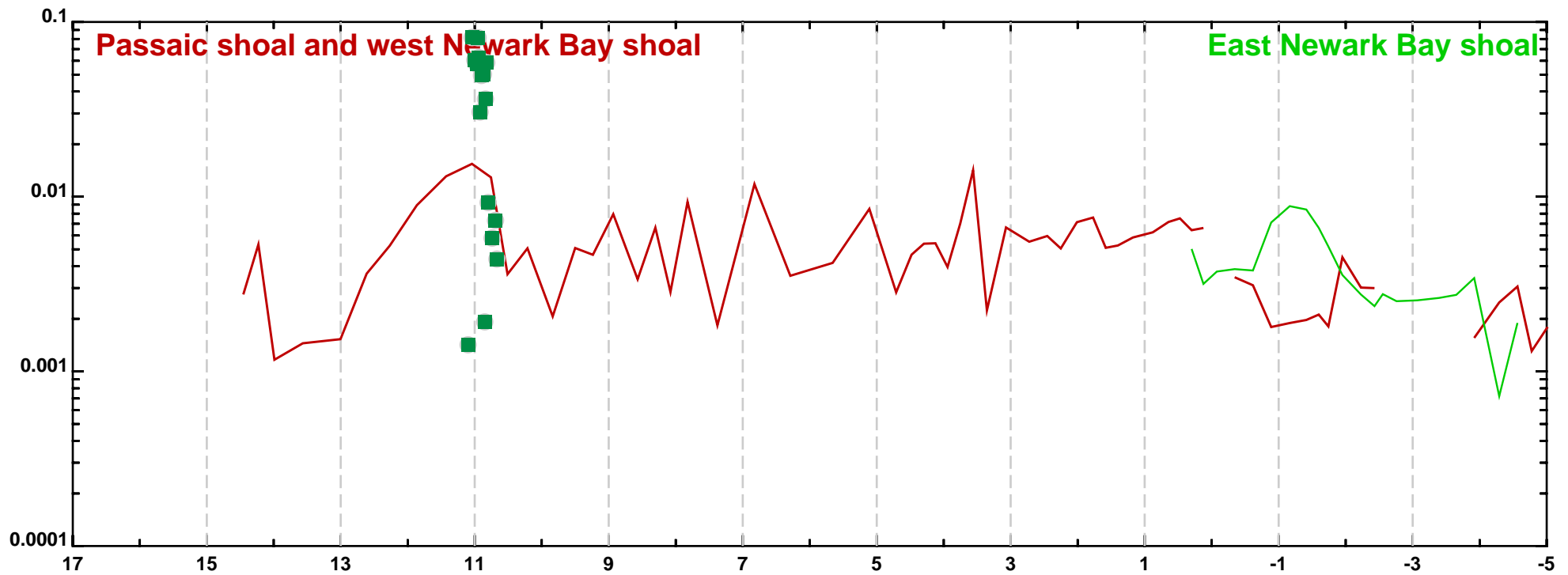
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2012.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

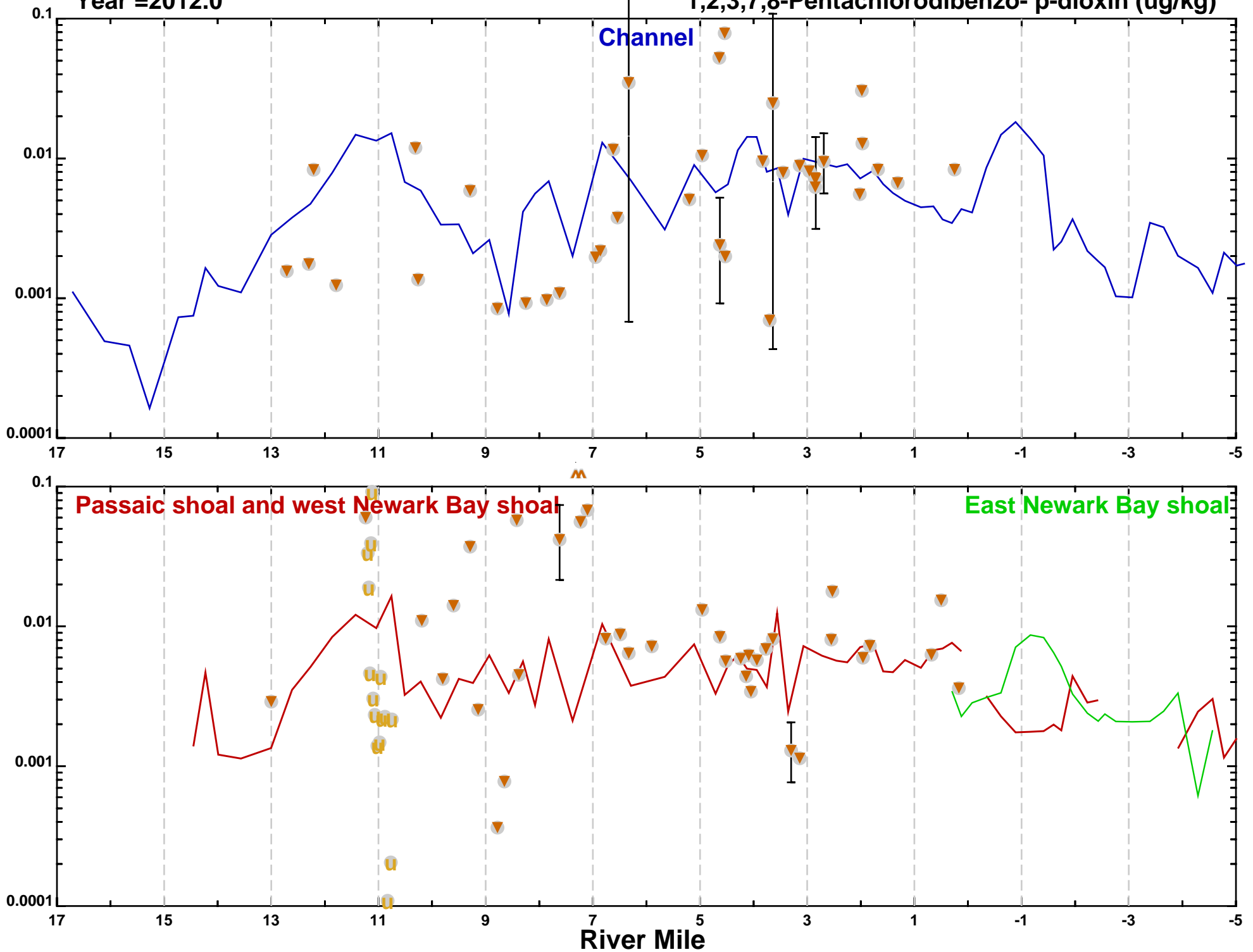
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

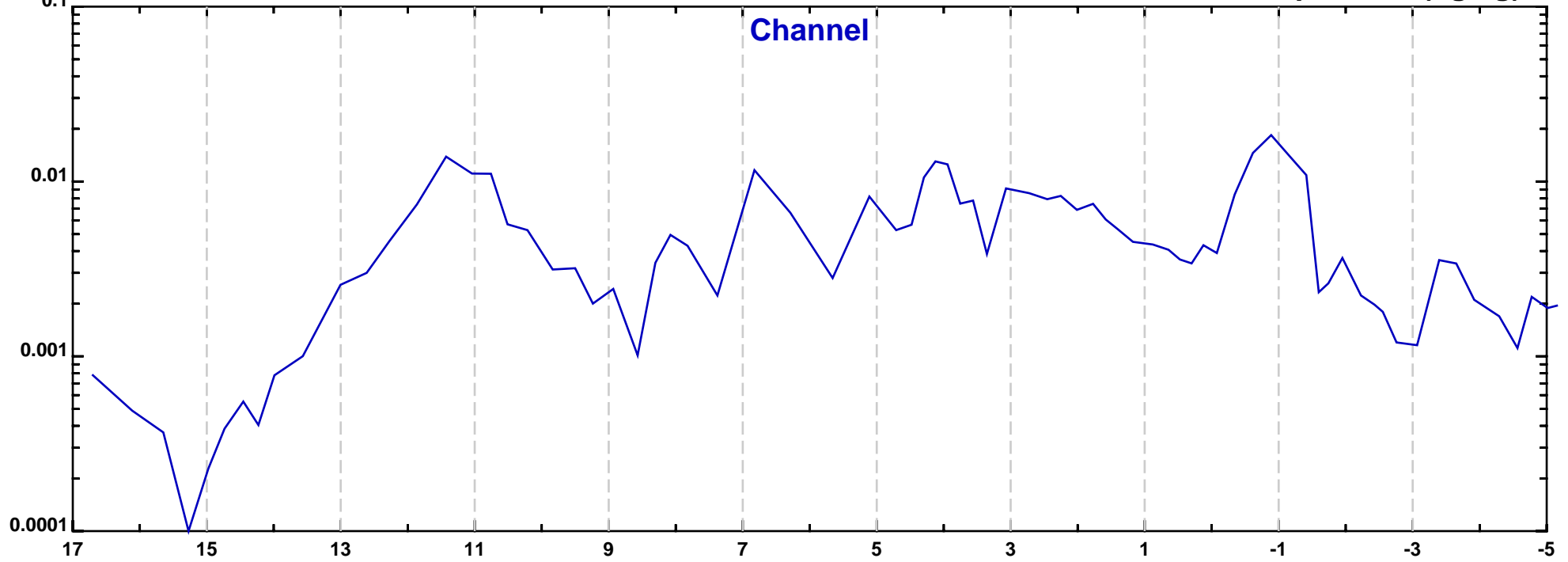


Year =2013.0

1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg)

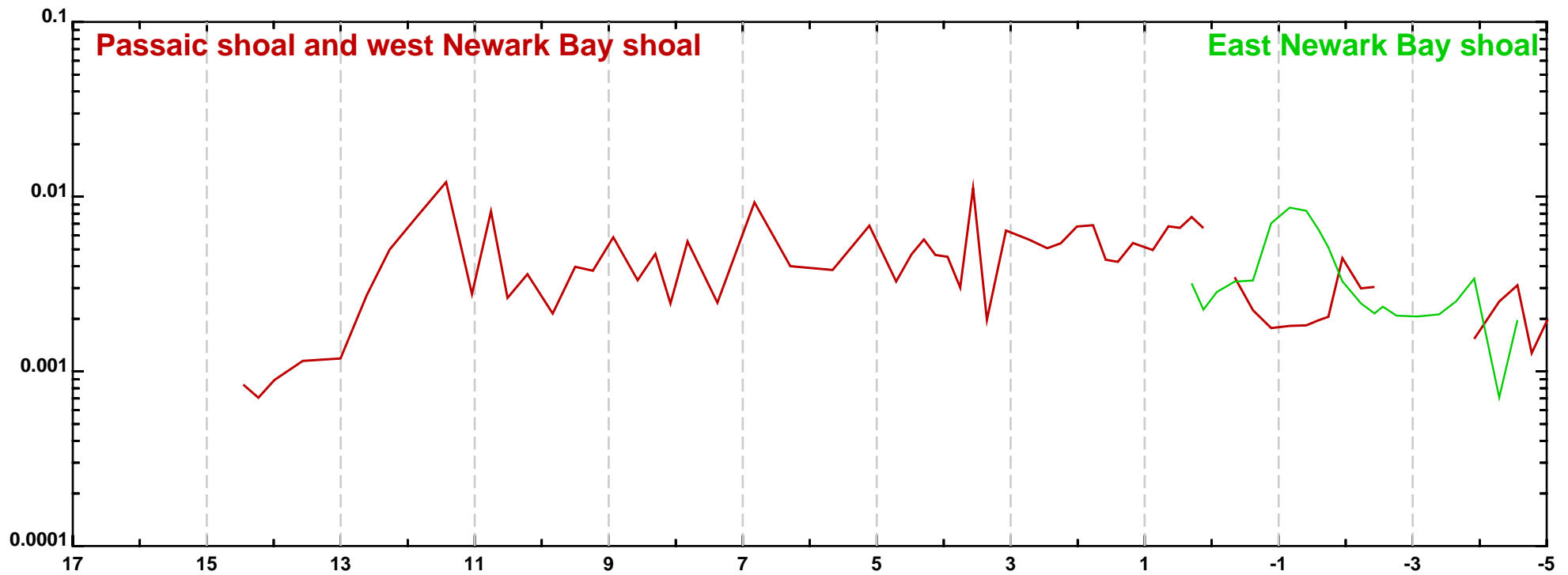
Top 15cm Conc. (ug/kg-DW)

Channel

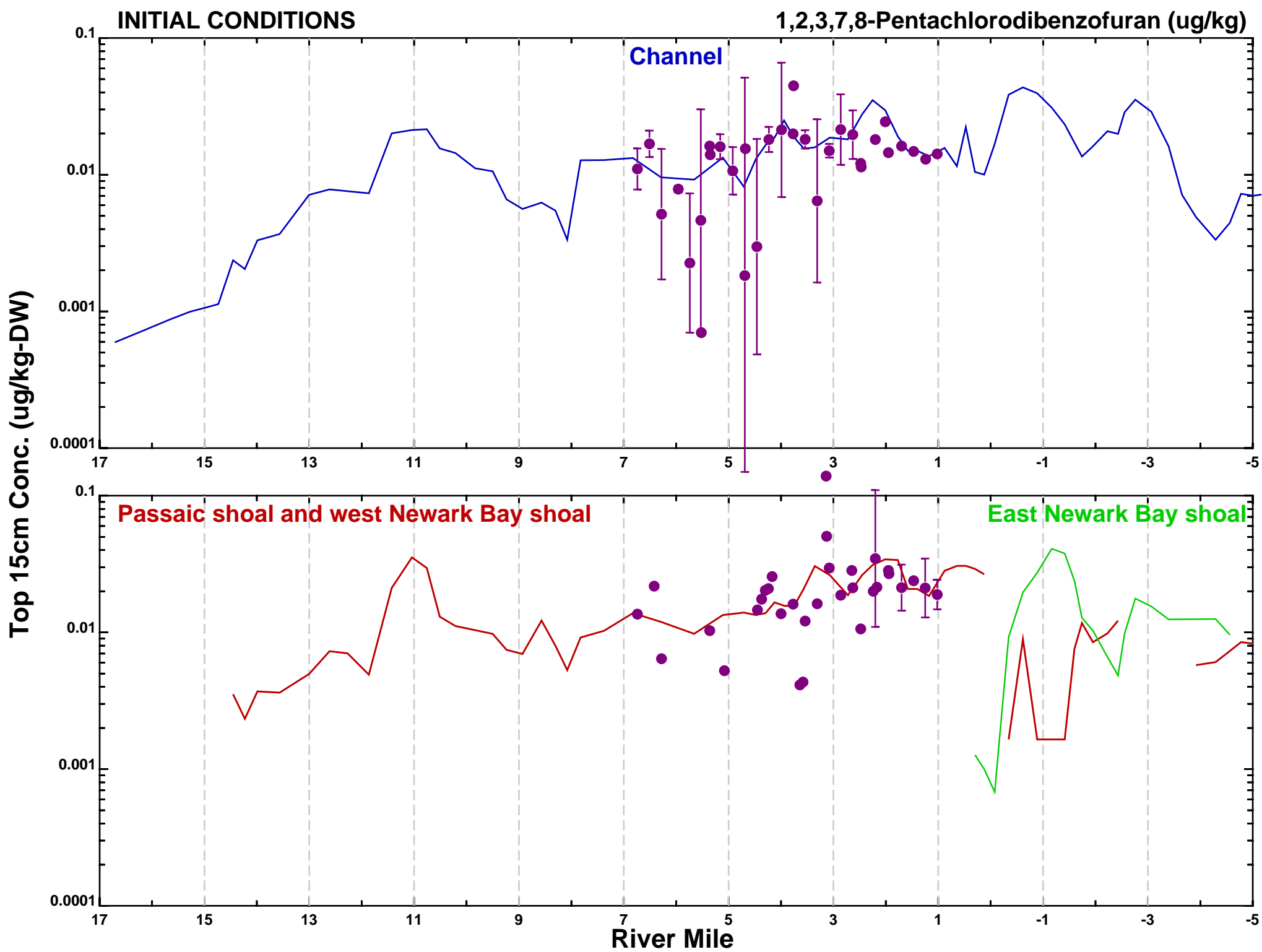


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile



Year = 1996.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)

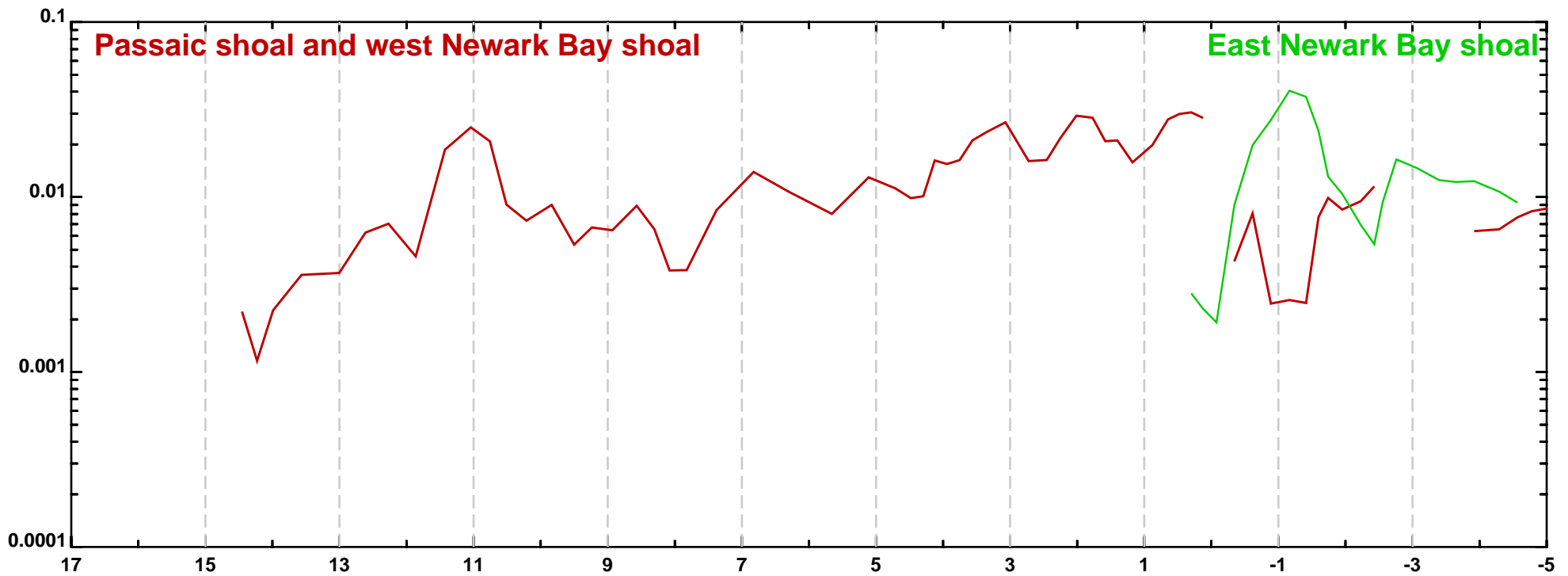
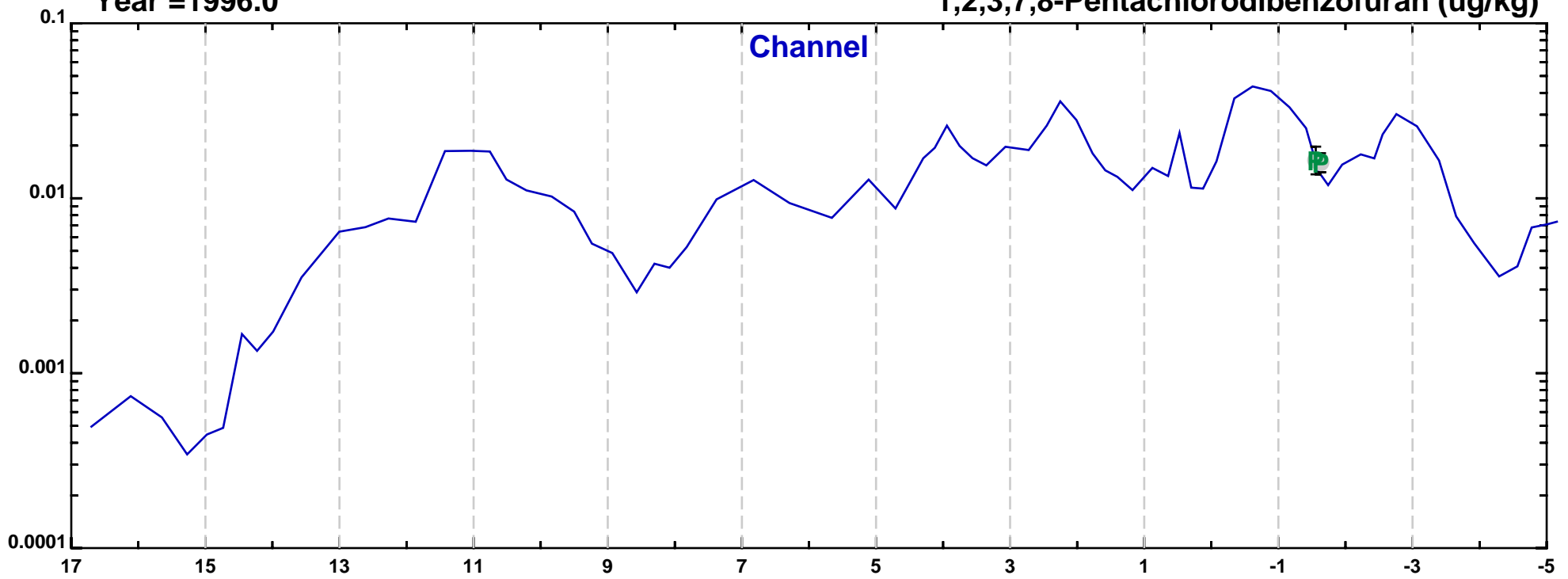
Channel

EP

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

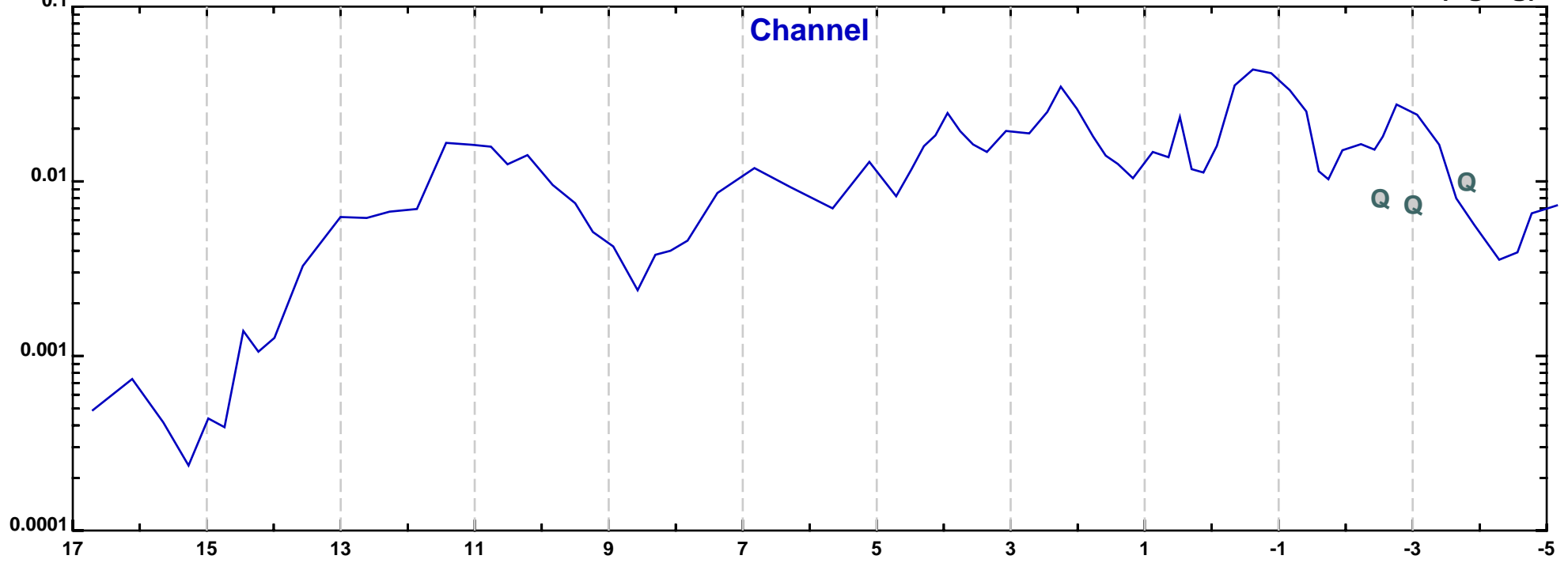


Year =1997.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

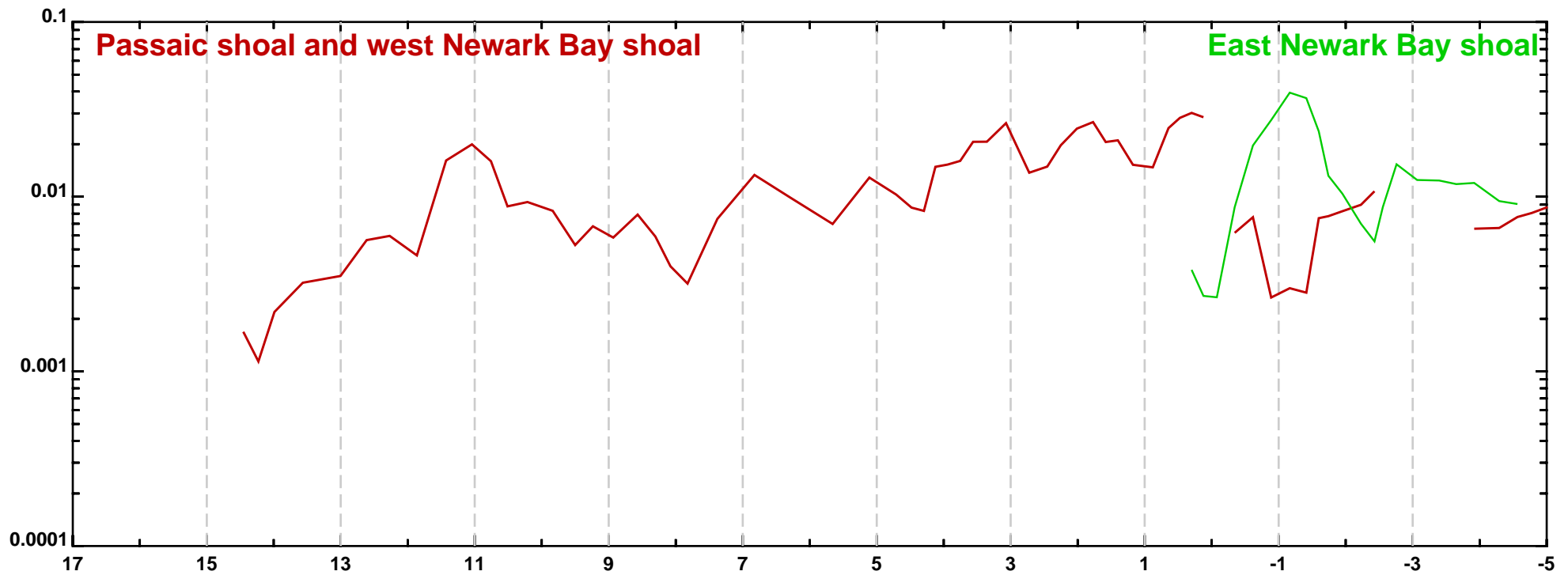
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

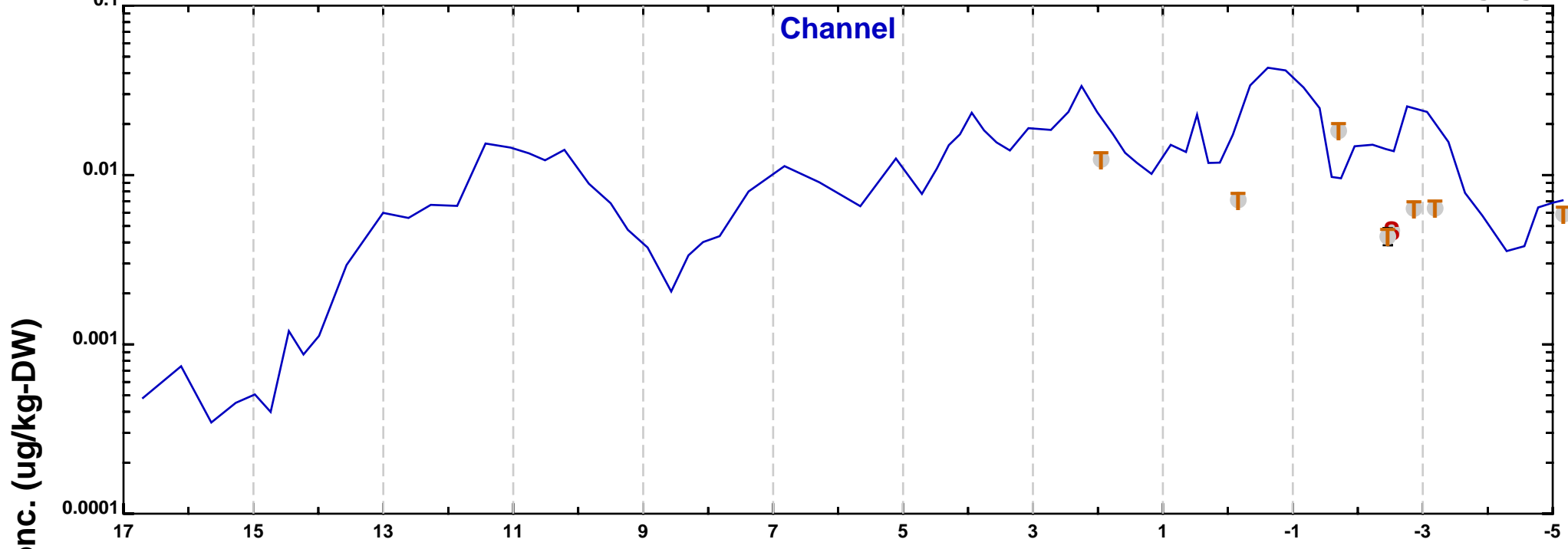
East Newark Bay shoal



River Mile

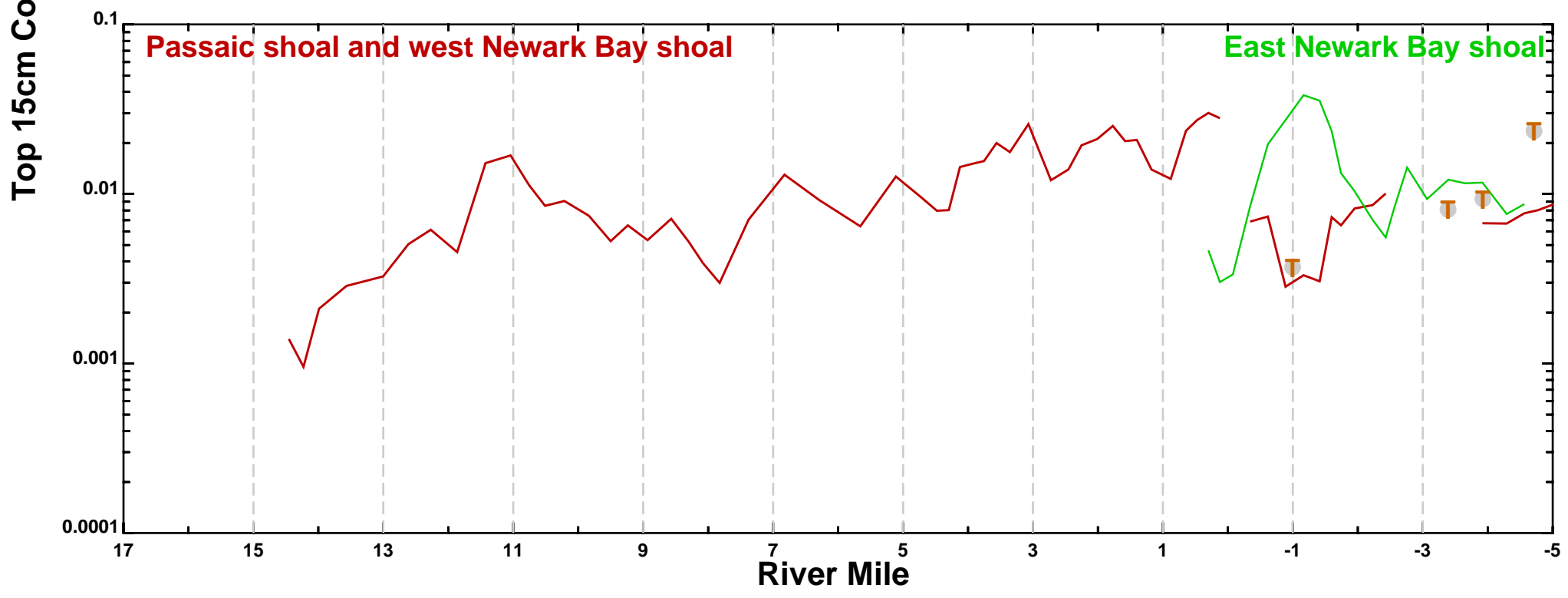
Year =1998.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

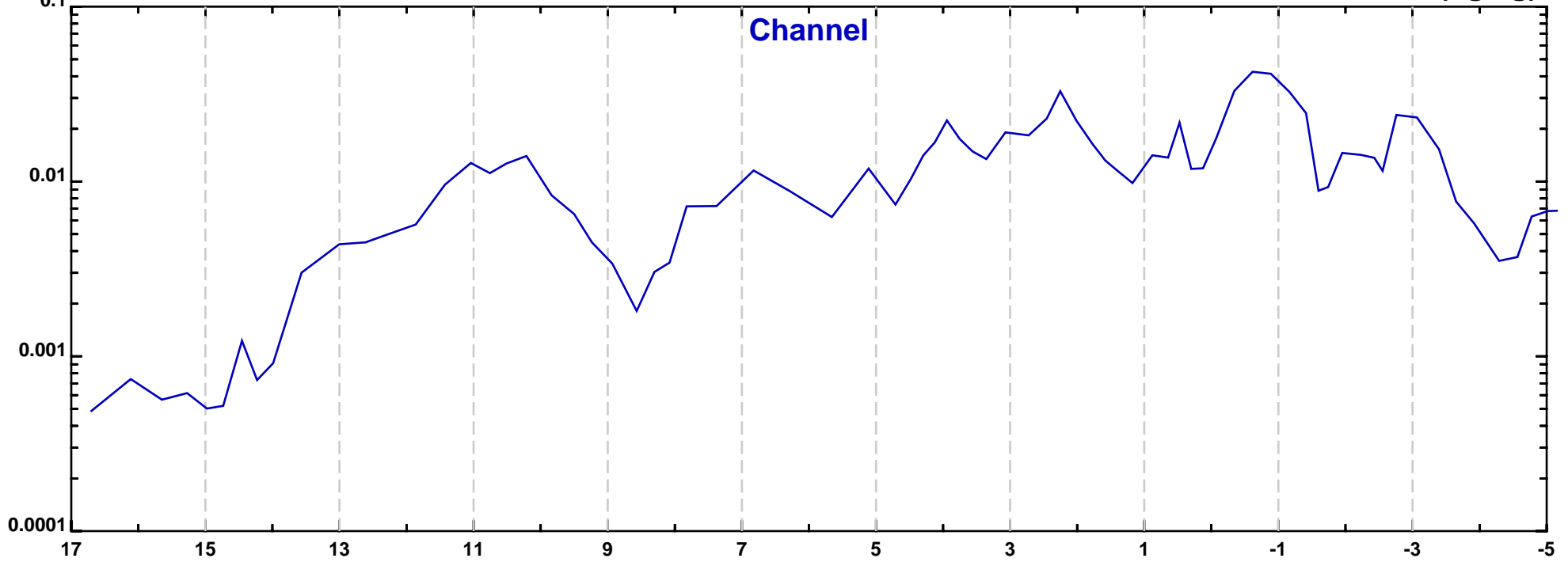


Year =1999.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

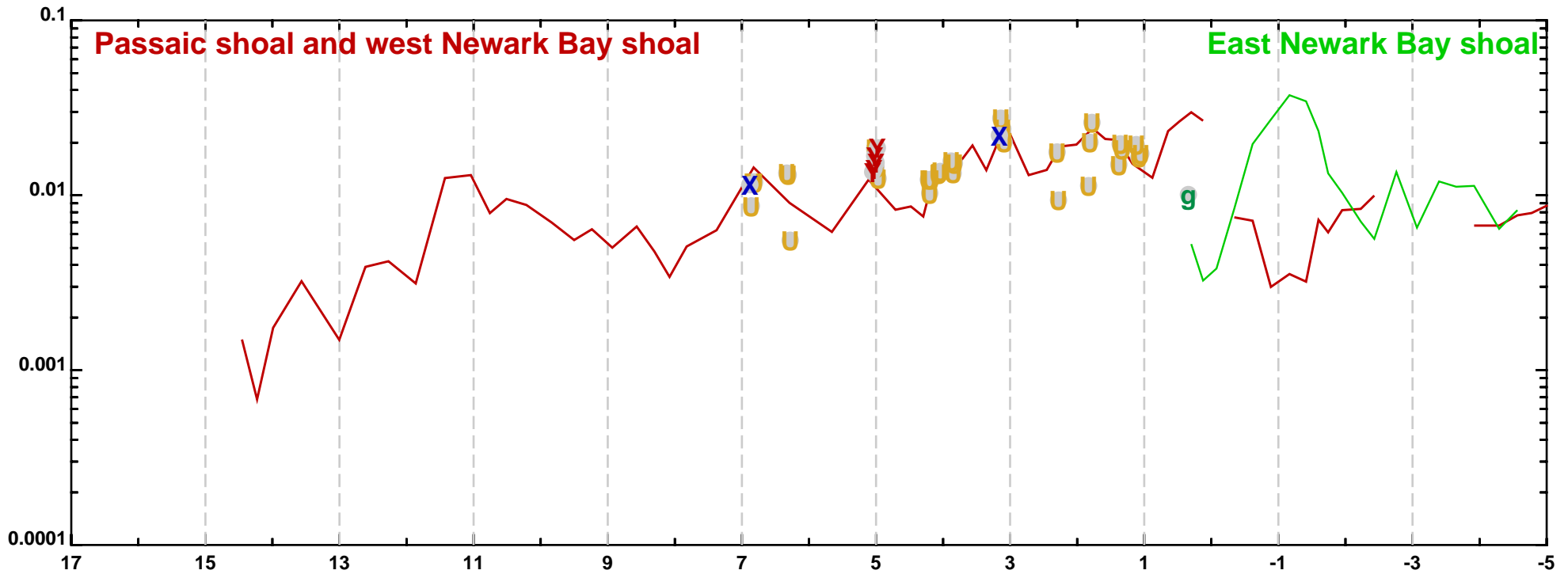
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

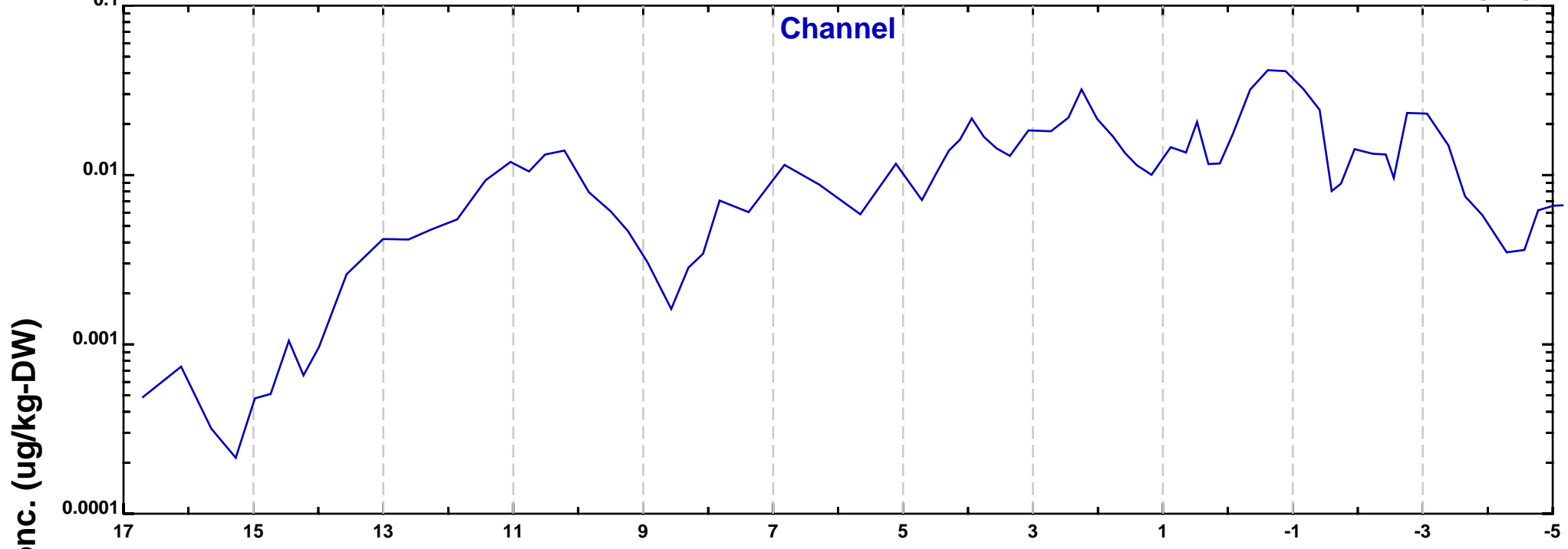


River Mile



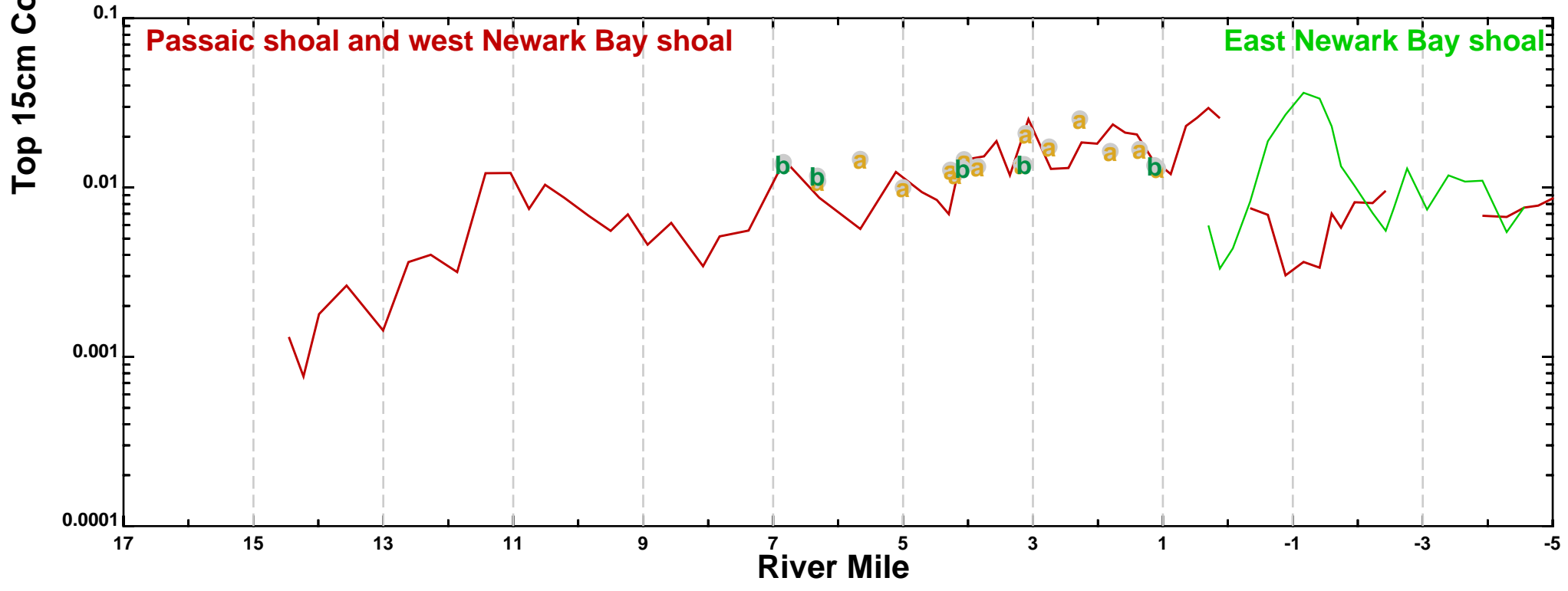
Year =2000.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

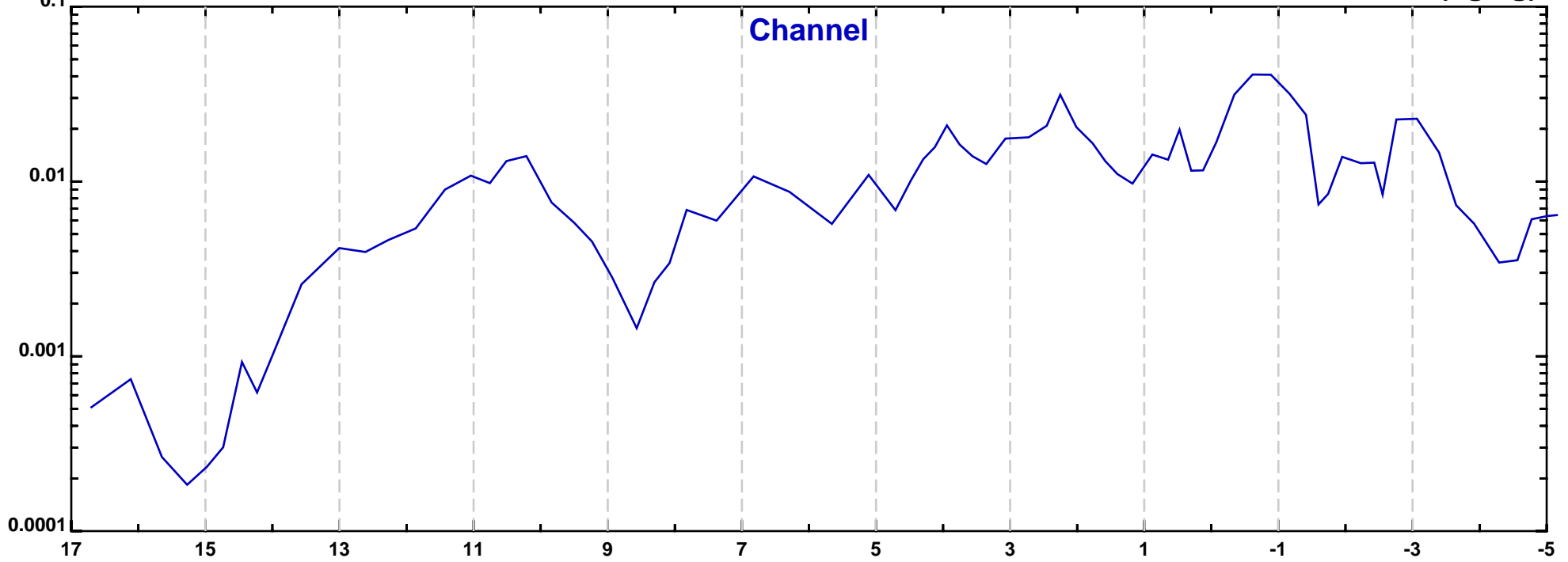


Year =2001.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

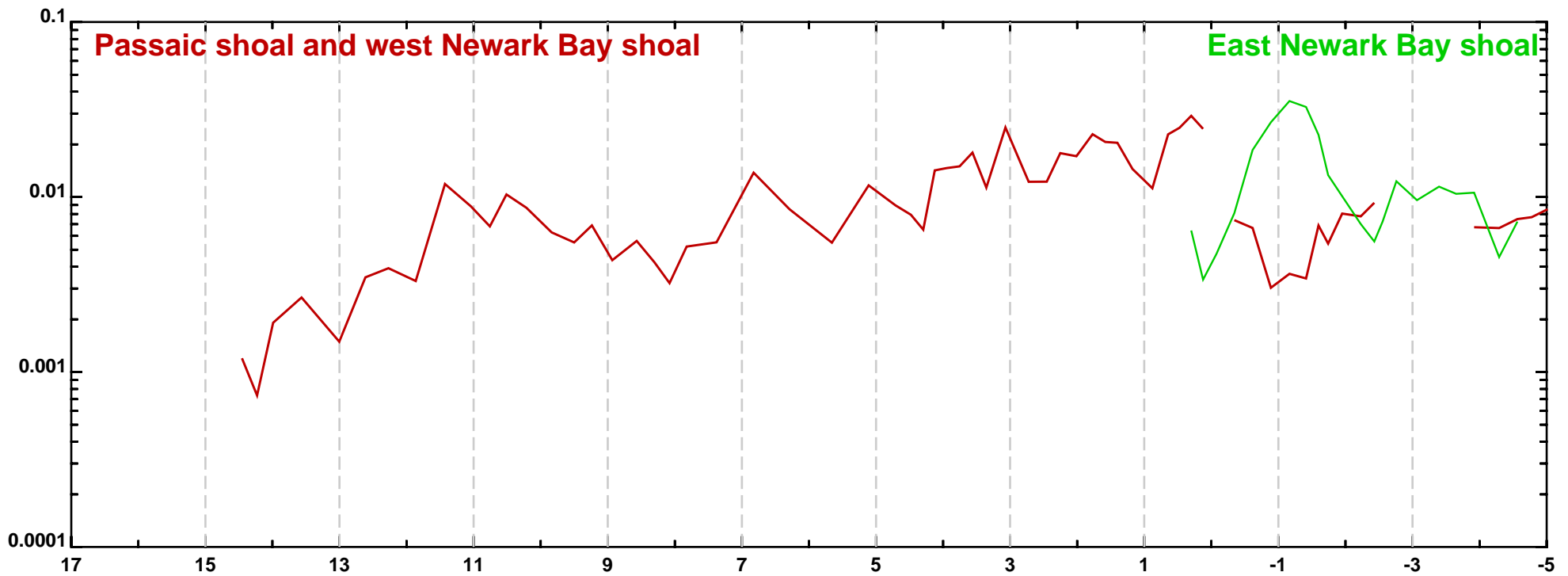
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

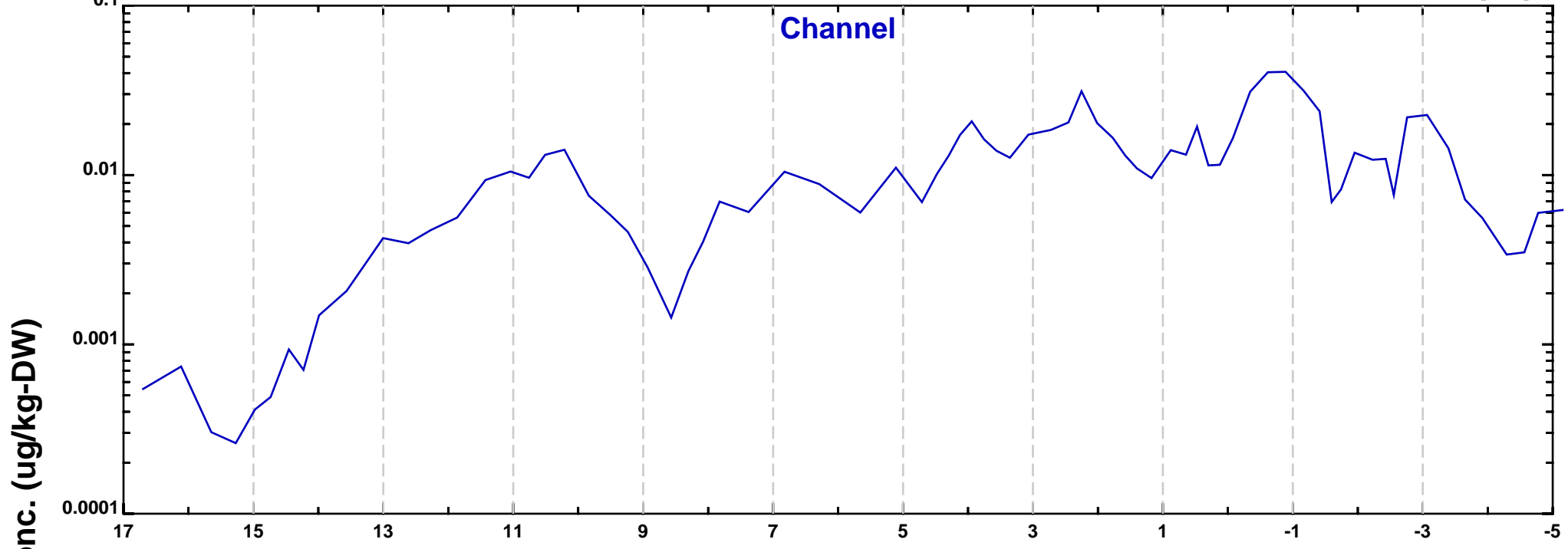
East Newark Bay shoal



River Mile

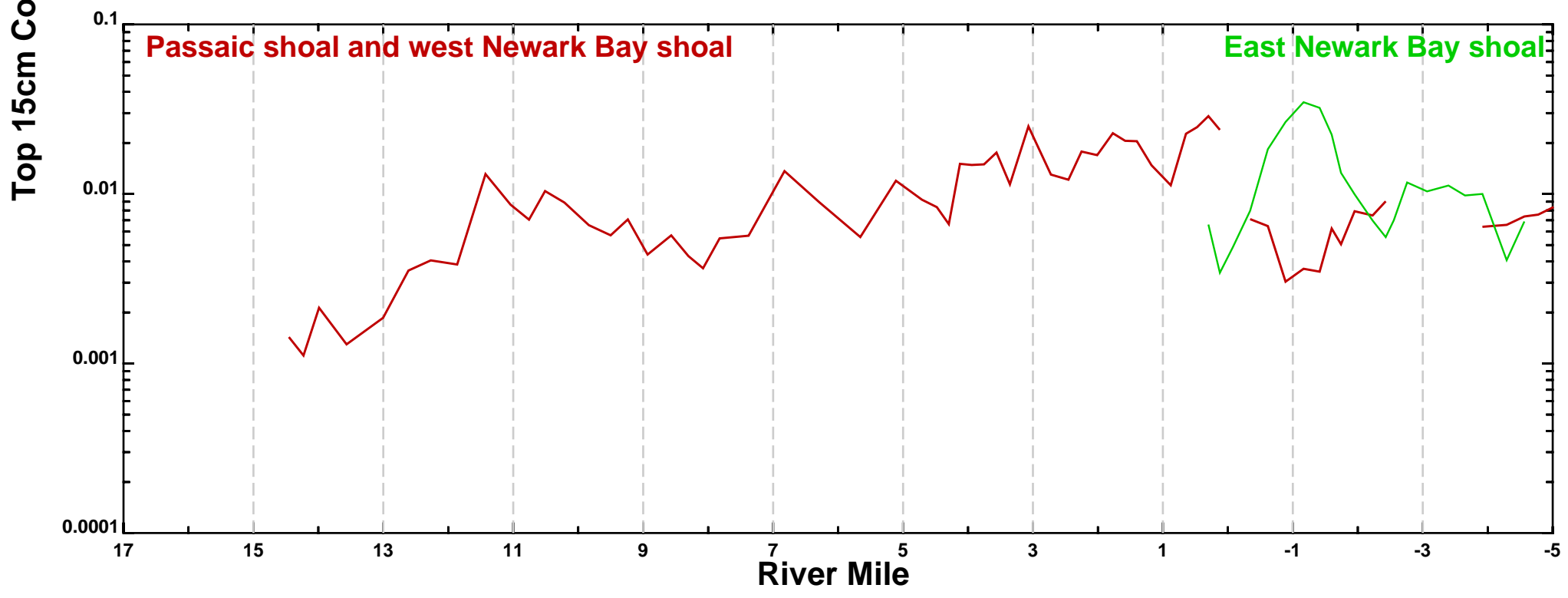
Year =2002.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



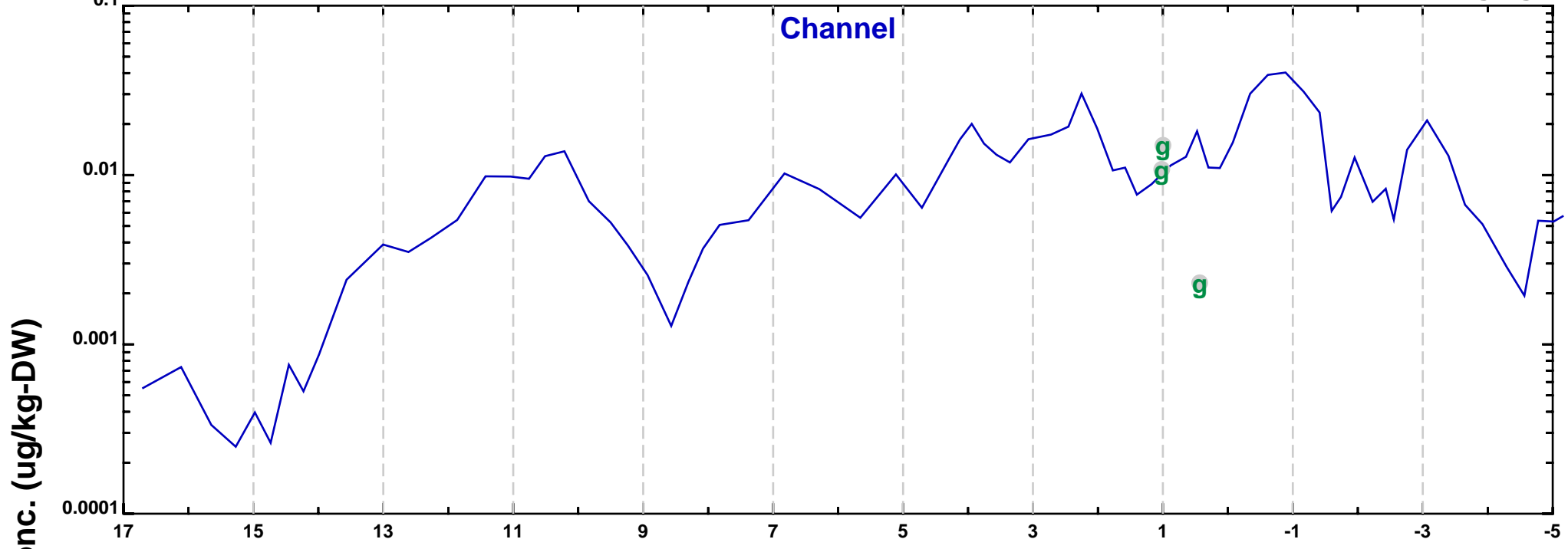
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



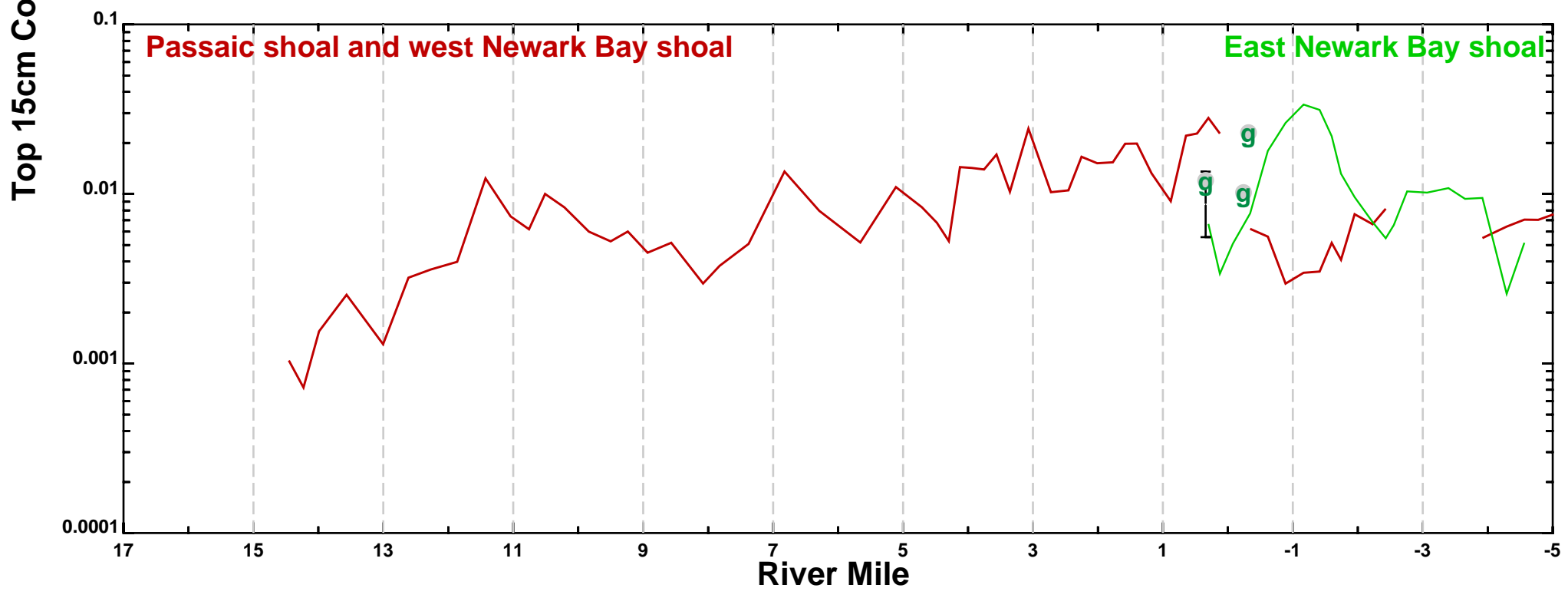
Year =2003.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

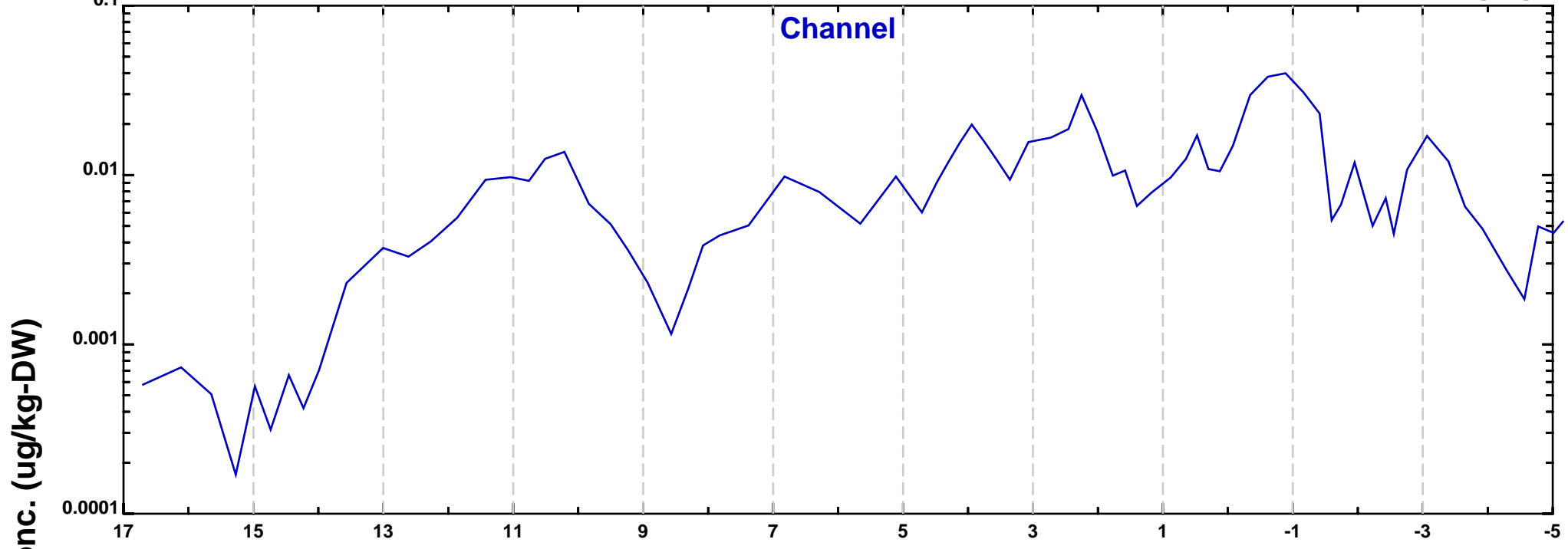
East Newark Bay shoal



River Mile

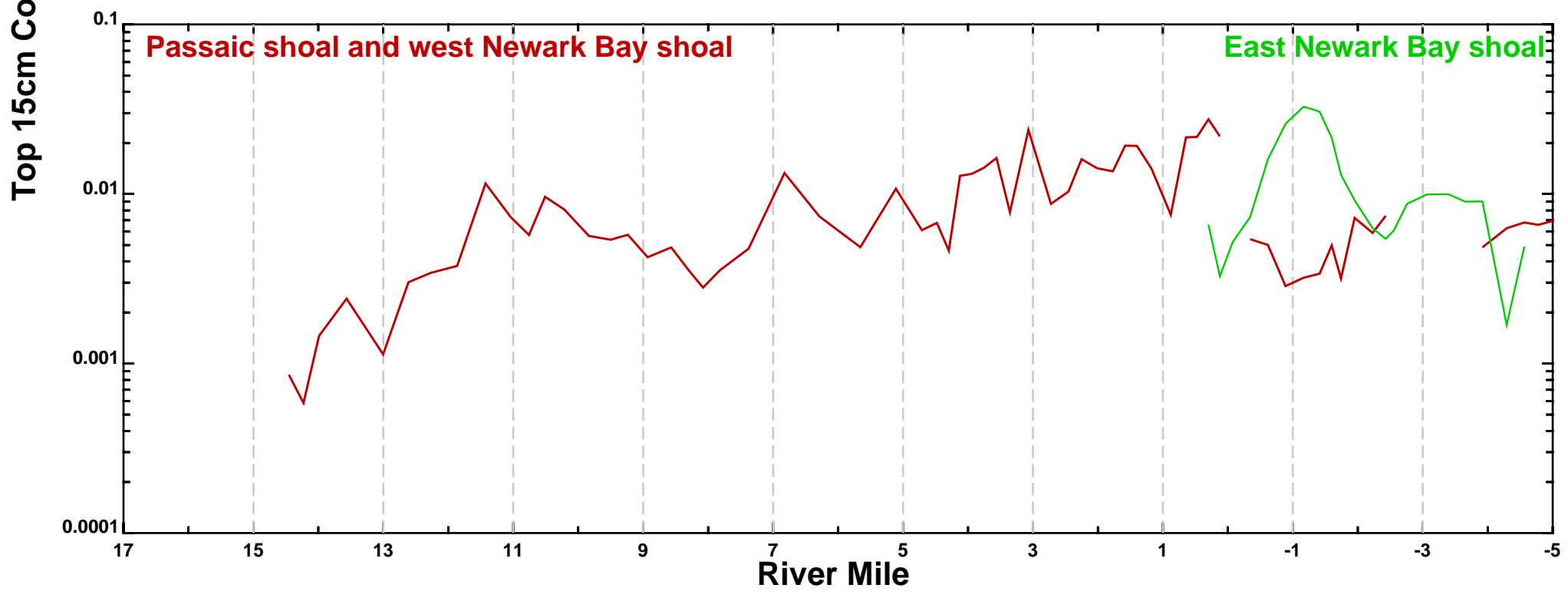
Year =2004.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

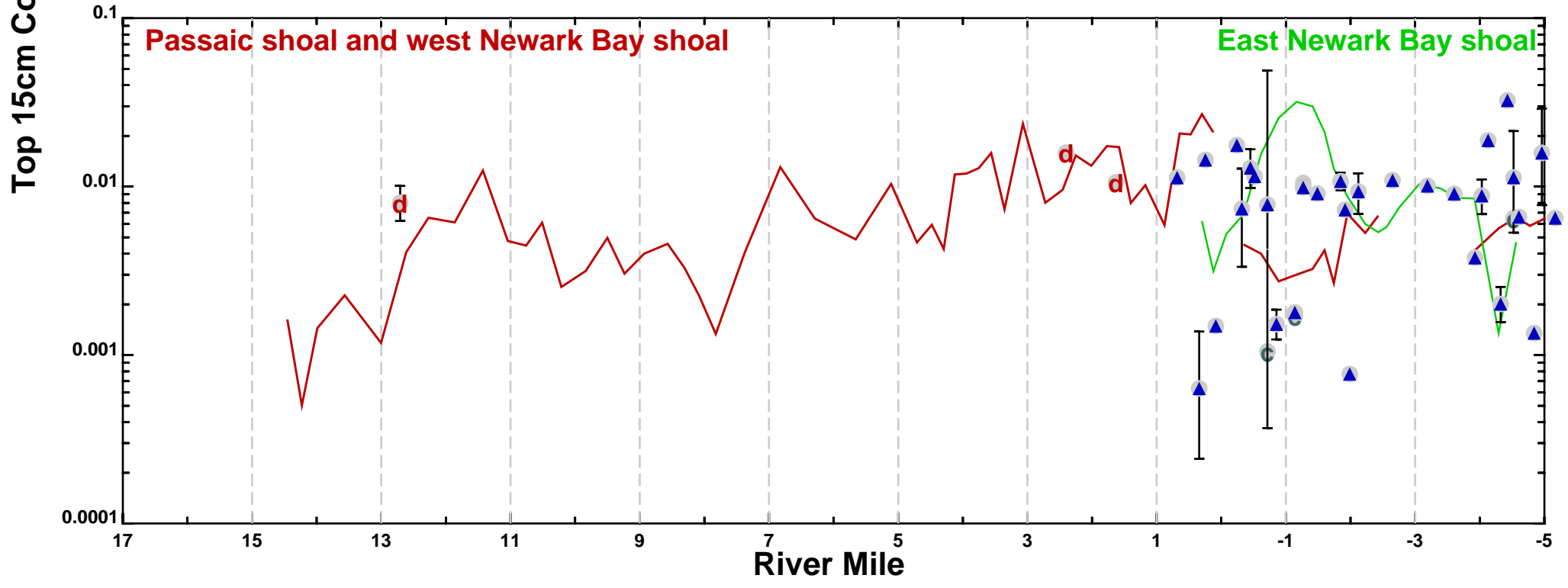
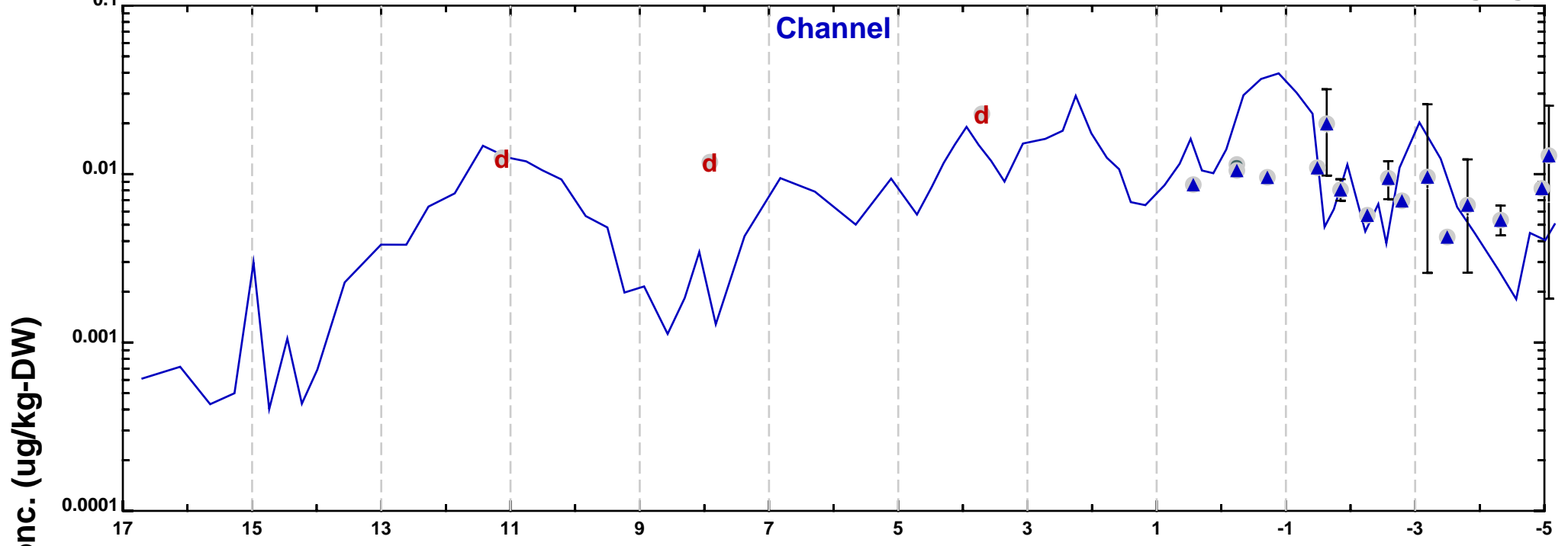
East Newark Bay shoal



River Mile

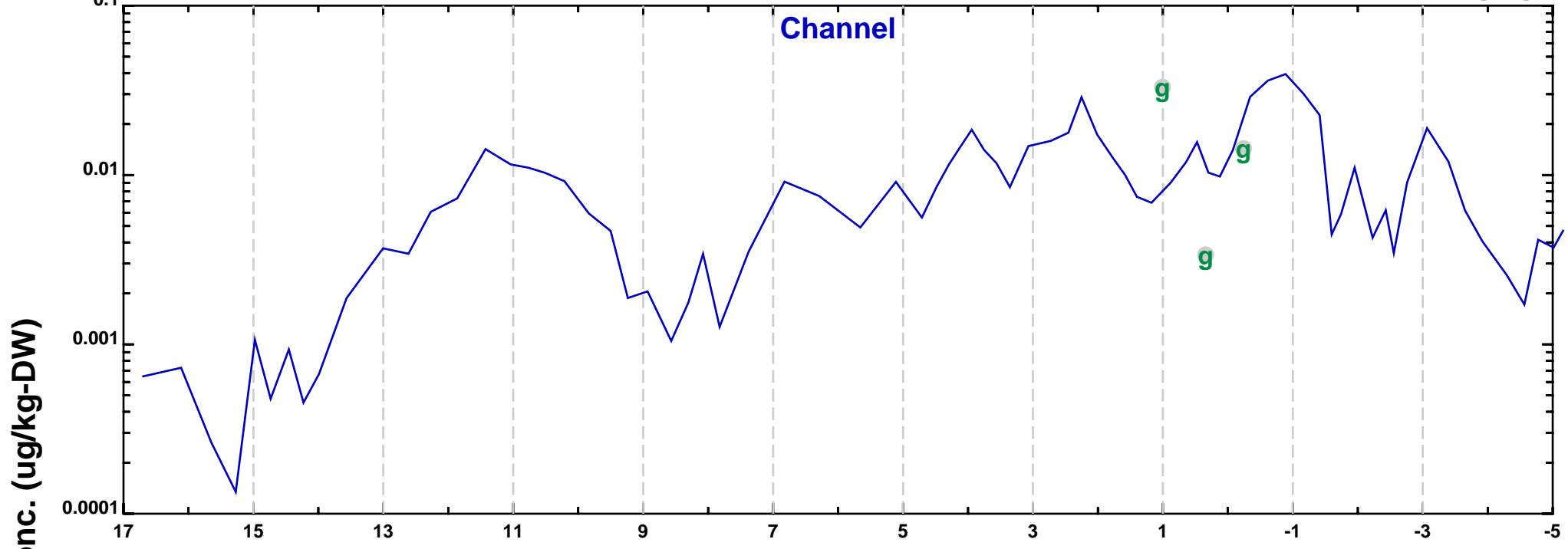
Year =2005.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



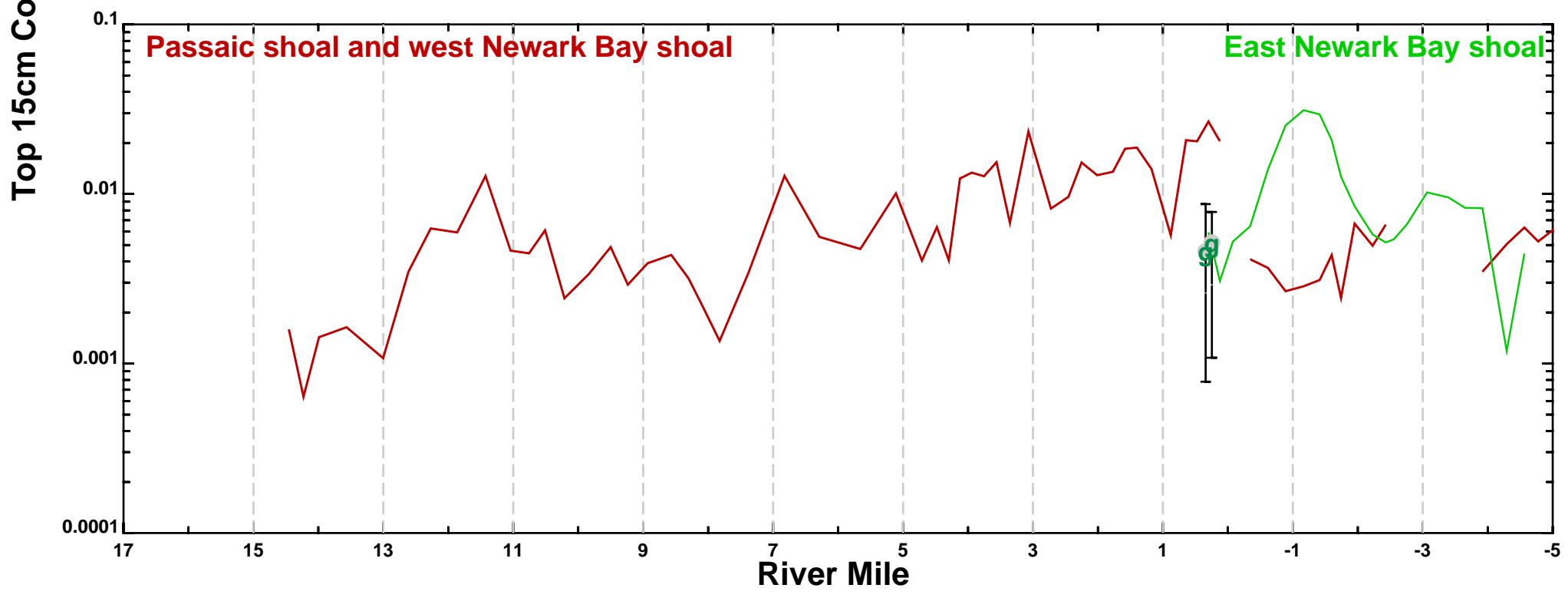
Year =2006.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

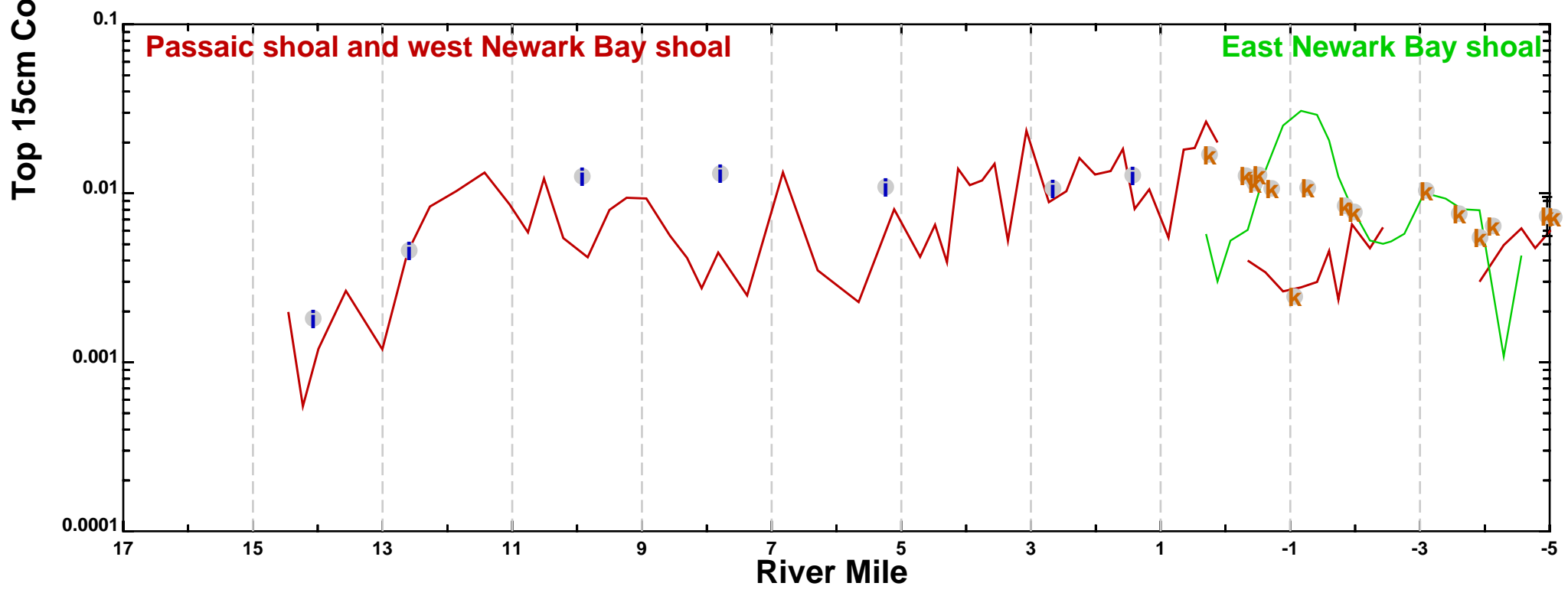
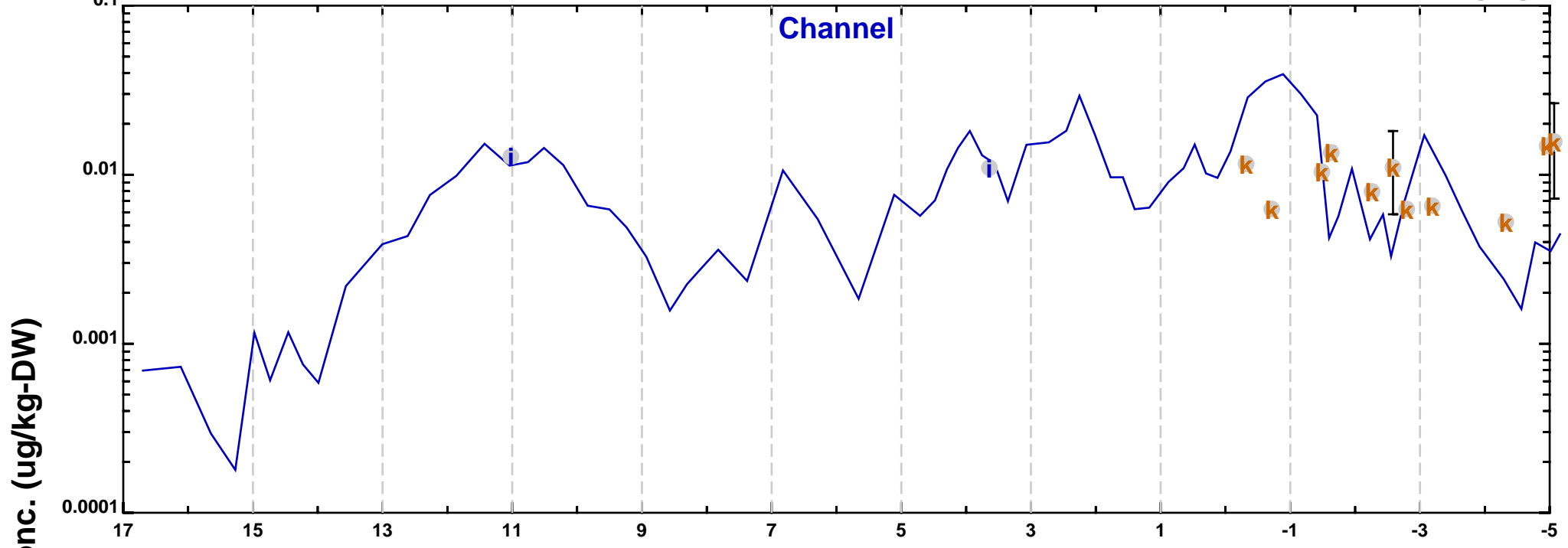
East Newark Bay shoal



River Mile

Year =2007.0

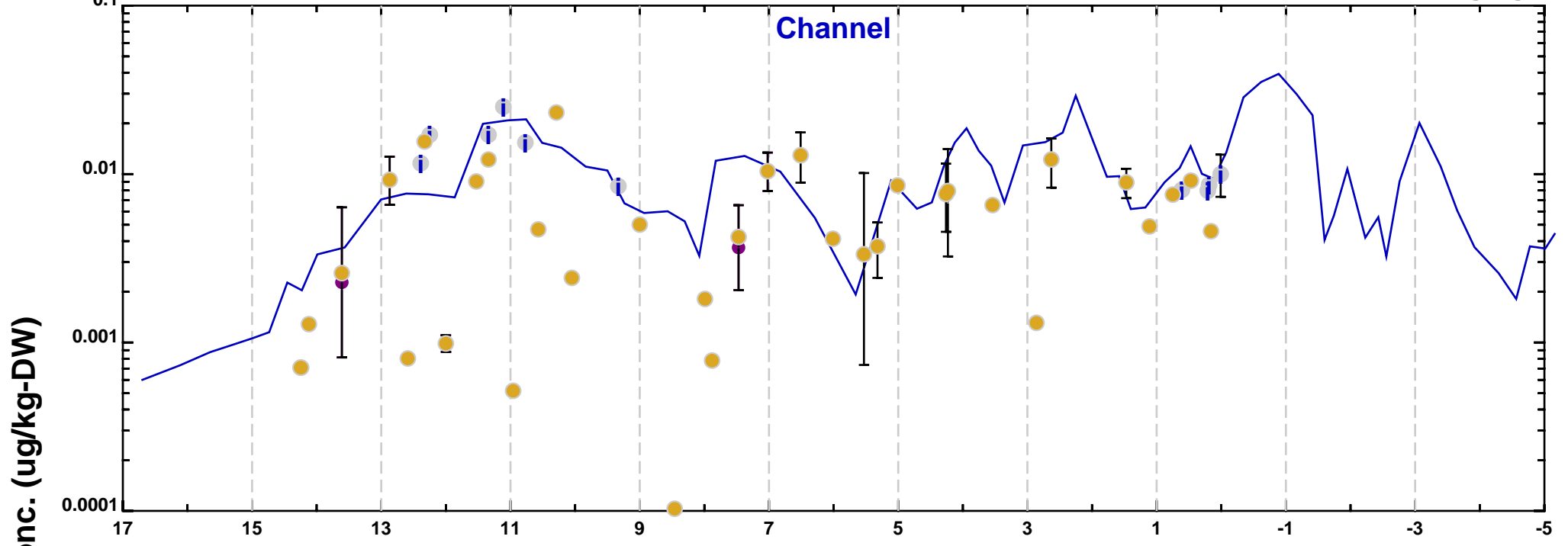
1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)





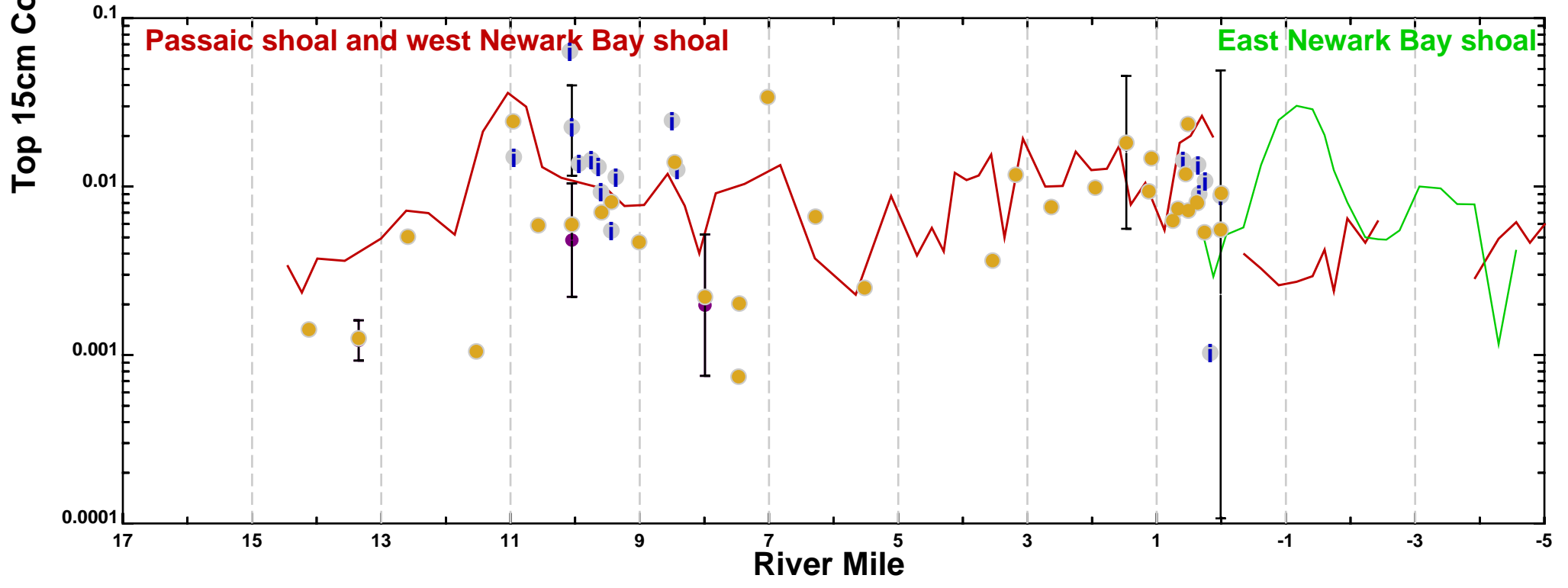
Year =2008.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

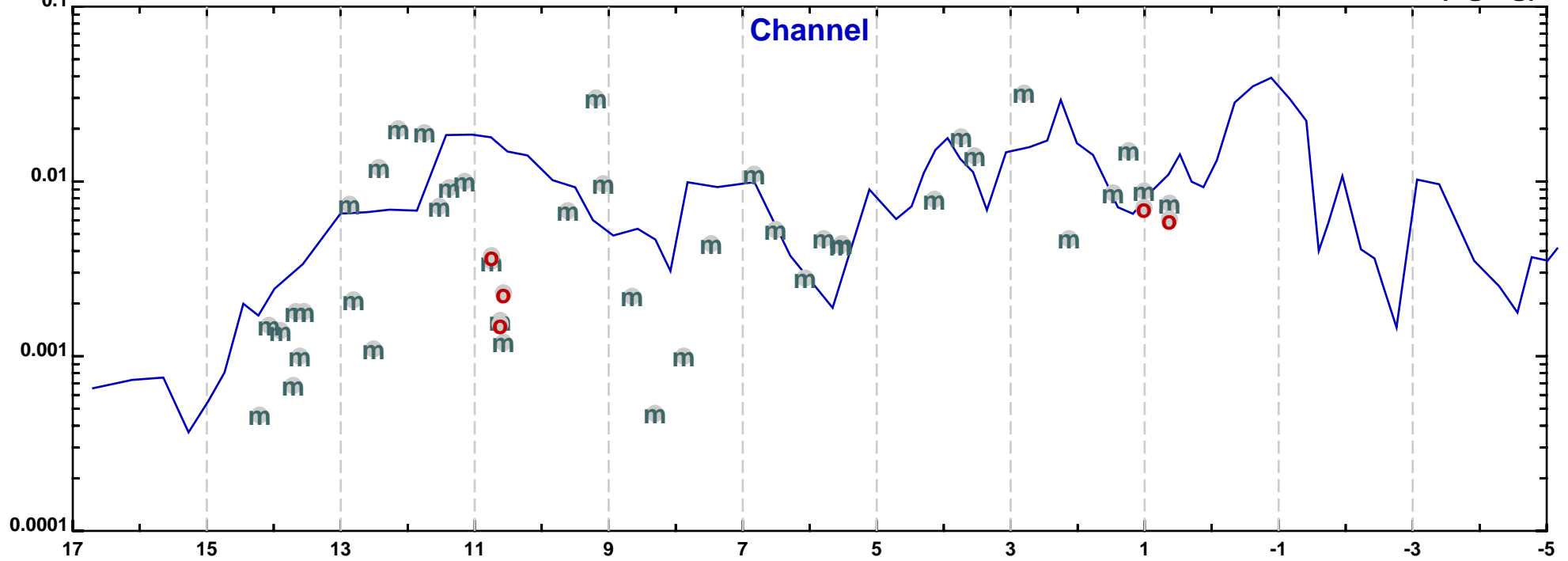


Year =2009.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

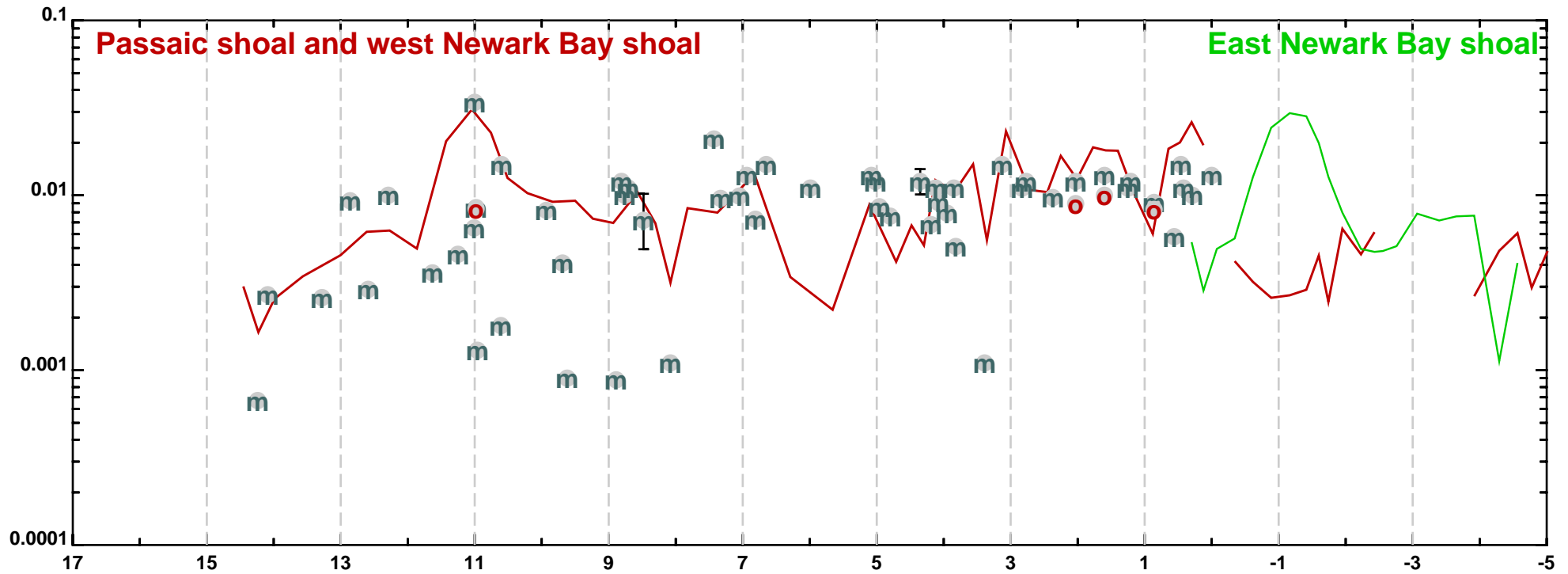
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

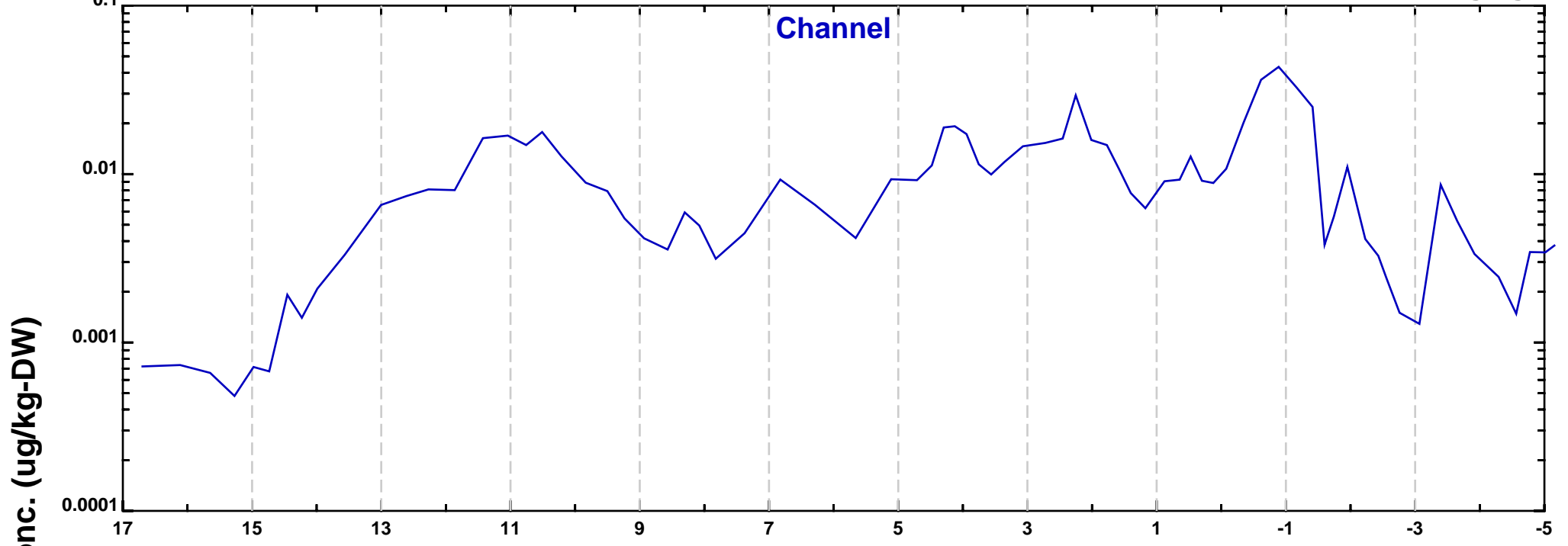
East Newark Bay shoal



River Mile

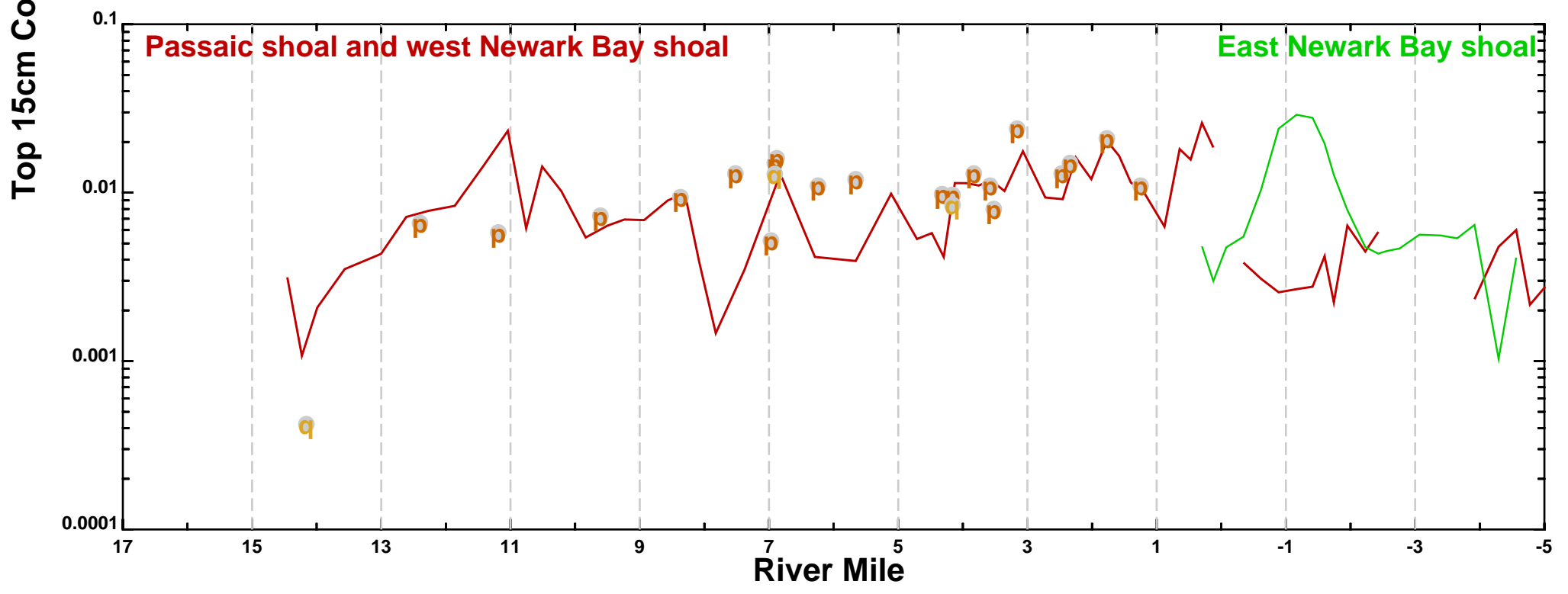
Year =2010.0

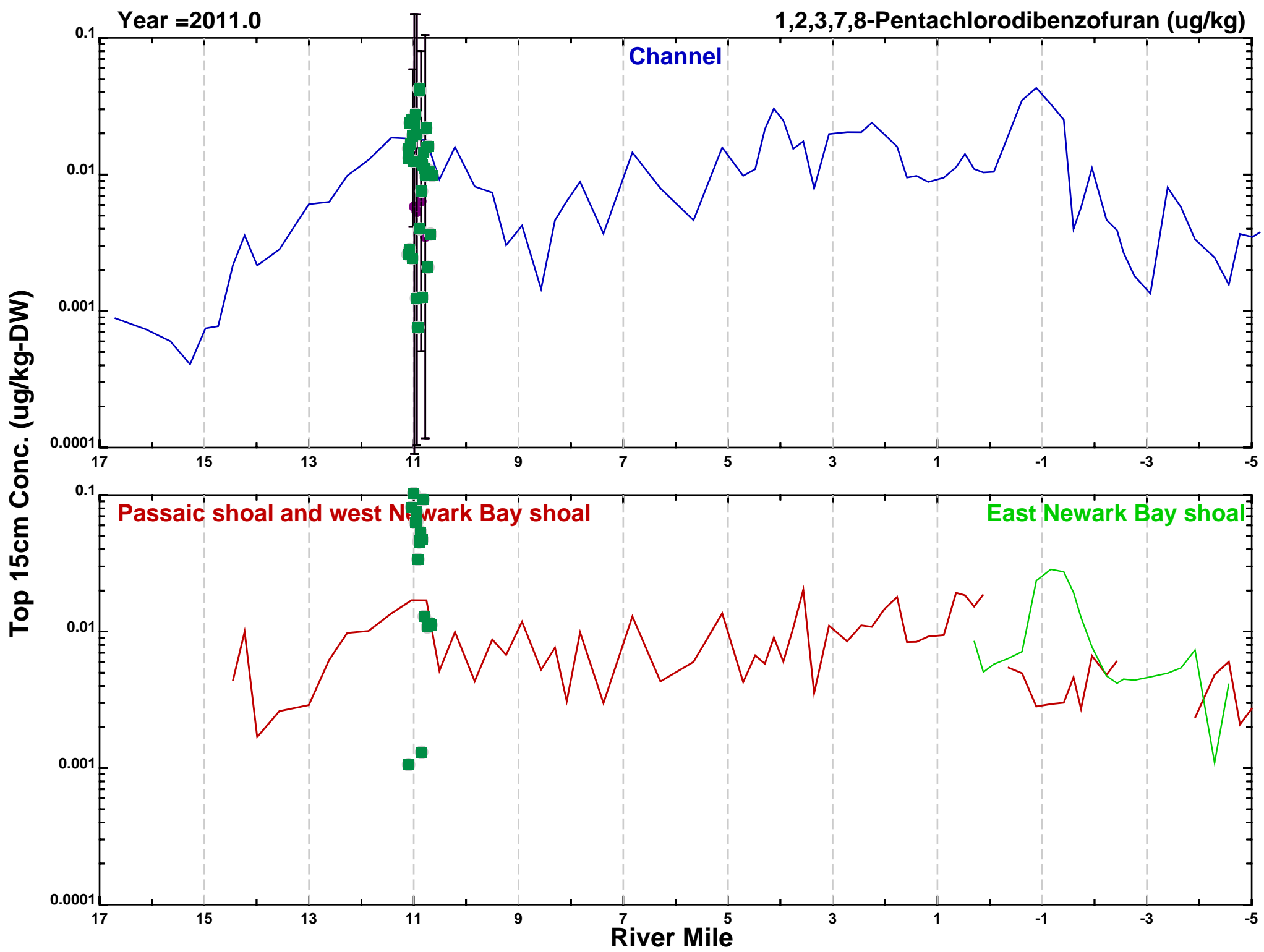
1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

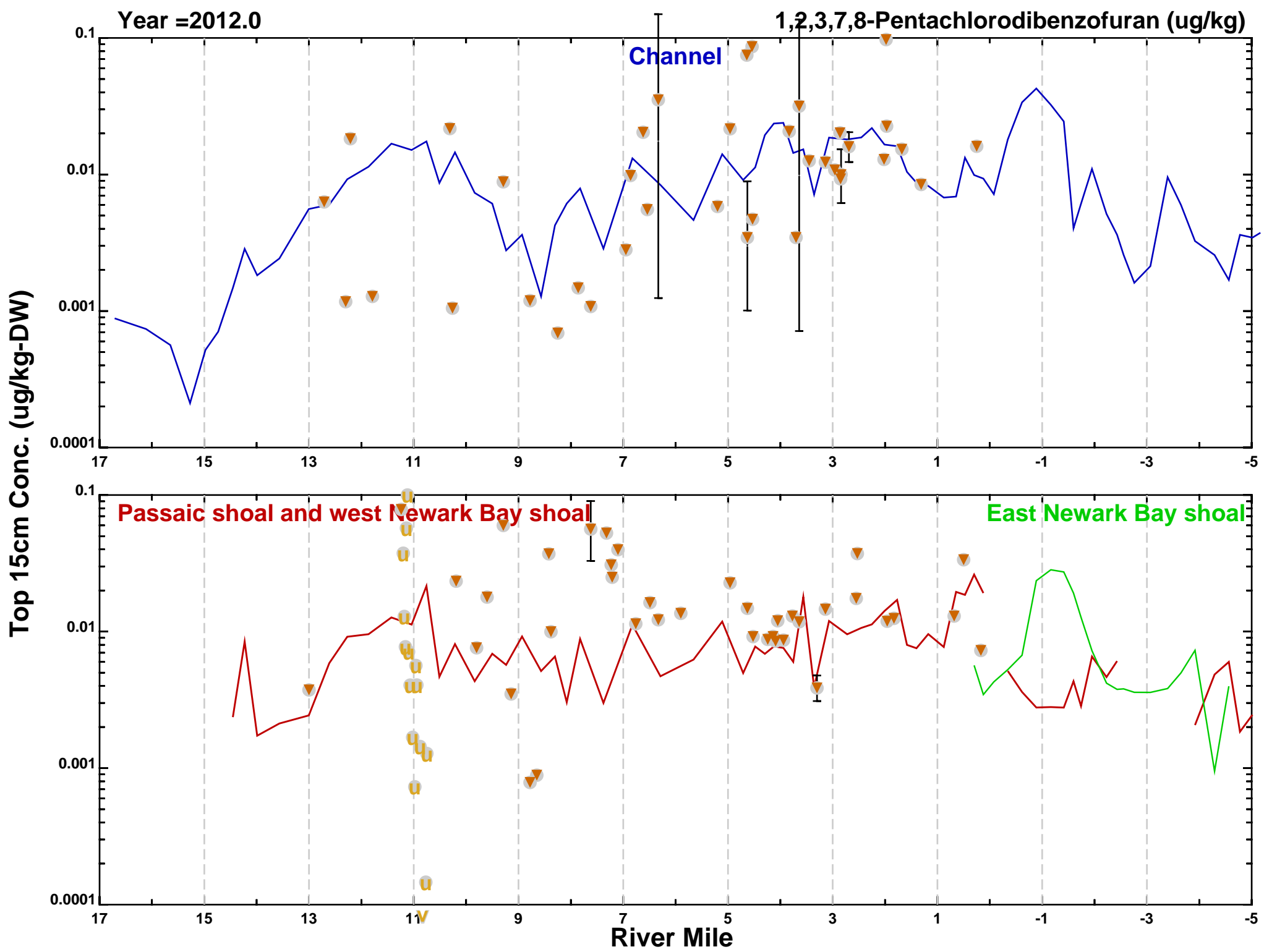


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





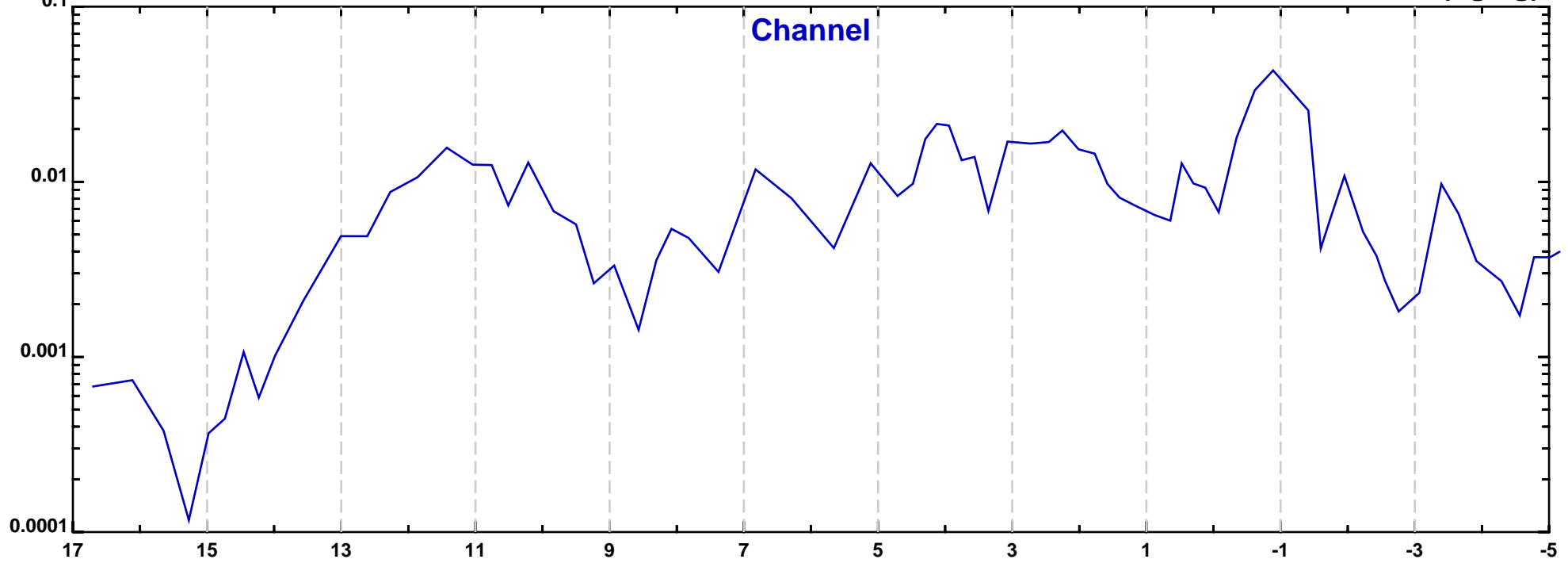


Year =2013.0

1,2,3,7,8-Pentachlorodibenzofuran (ug/kg)

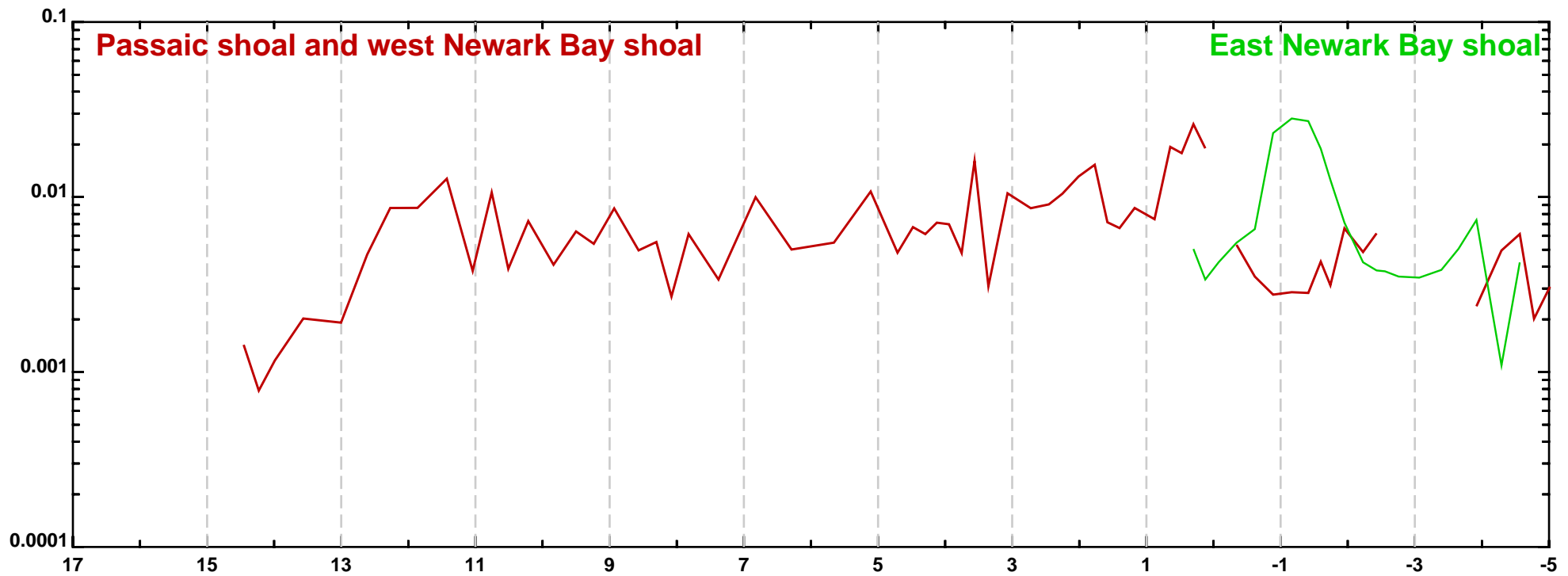
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



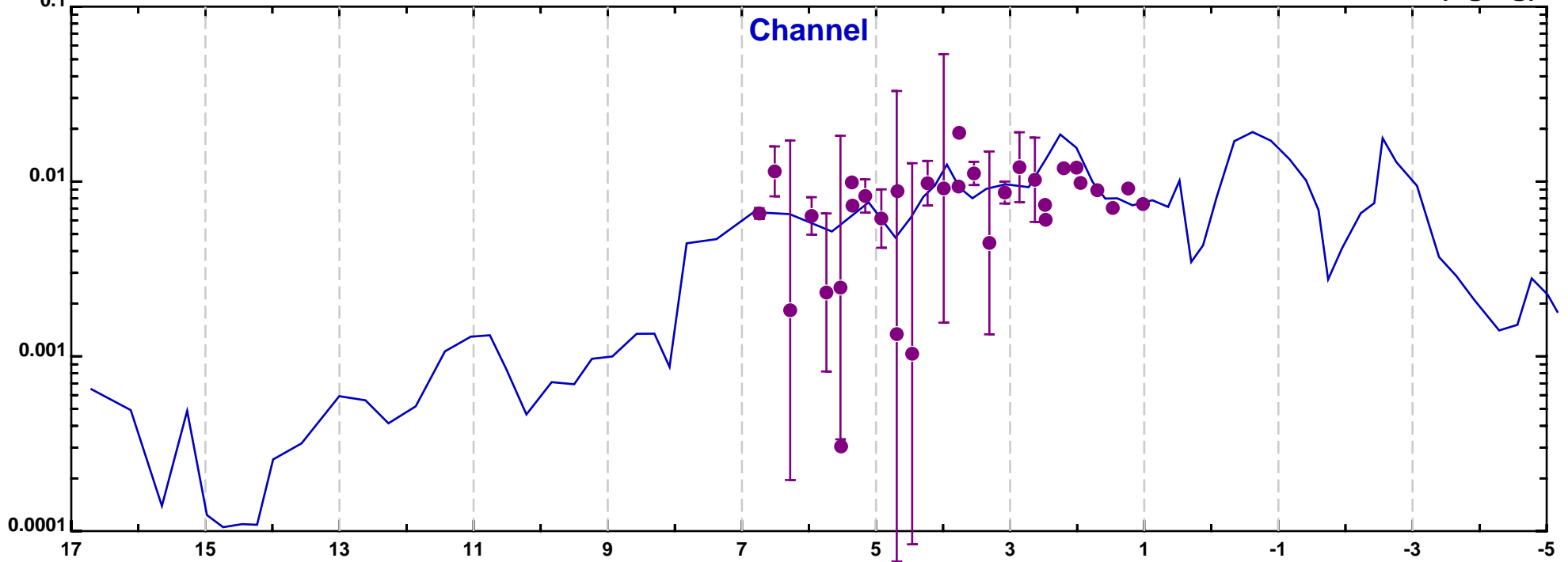
River Mile

**INITIAL CONDITIONS**

**1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)**

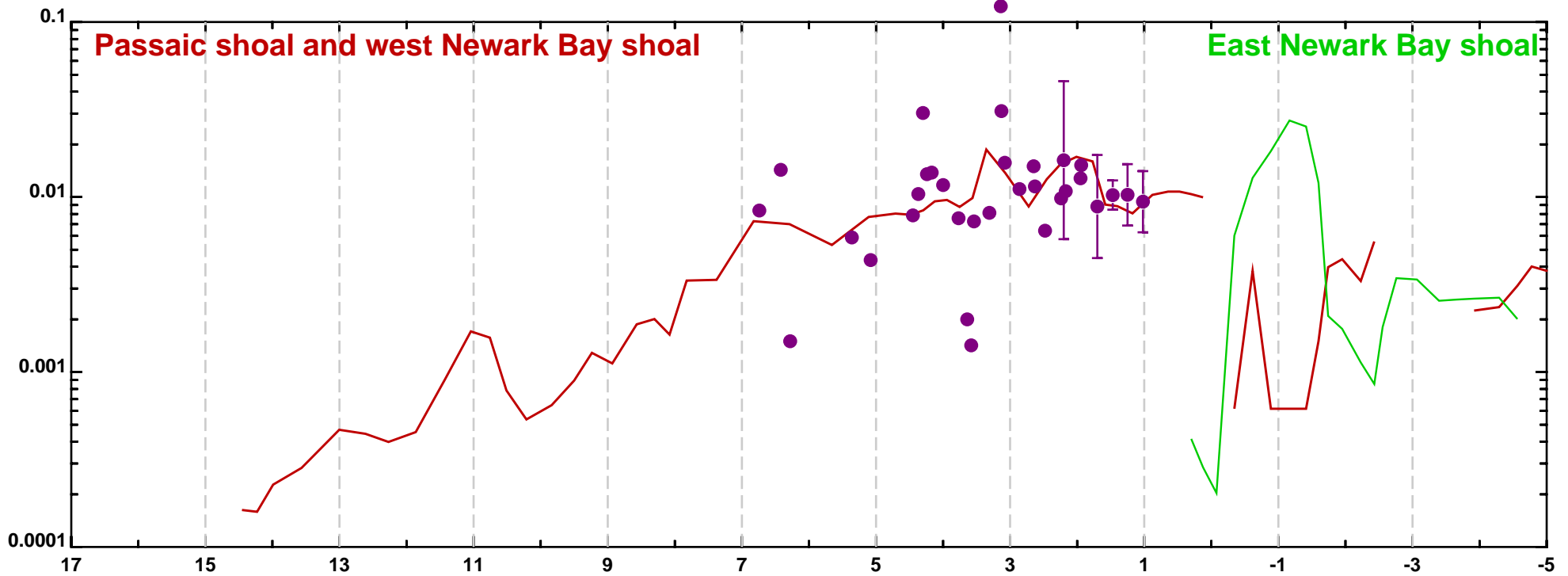
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

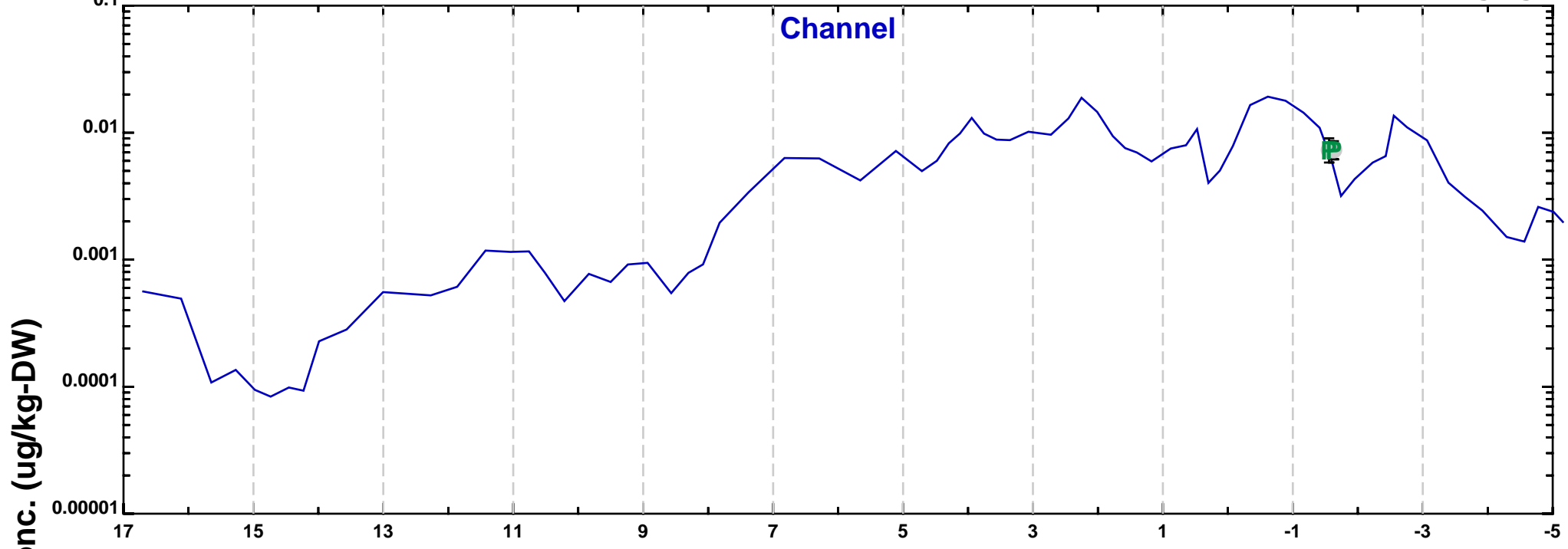
**East Newark Bay shoal**



**River Mile**

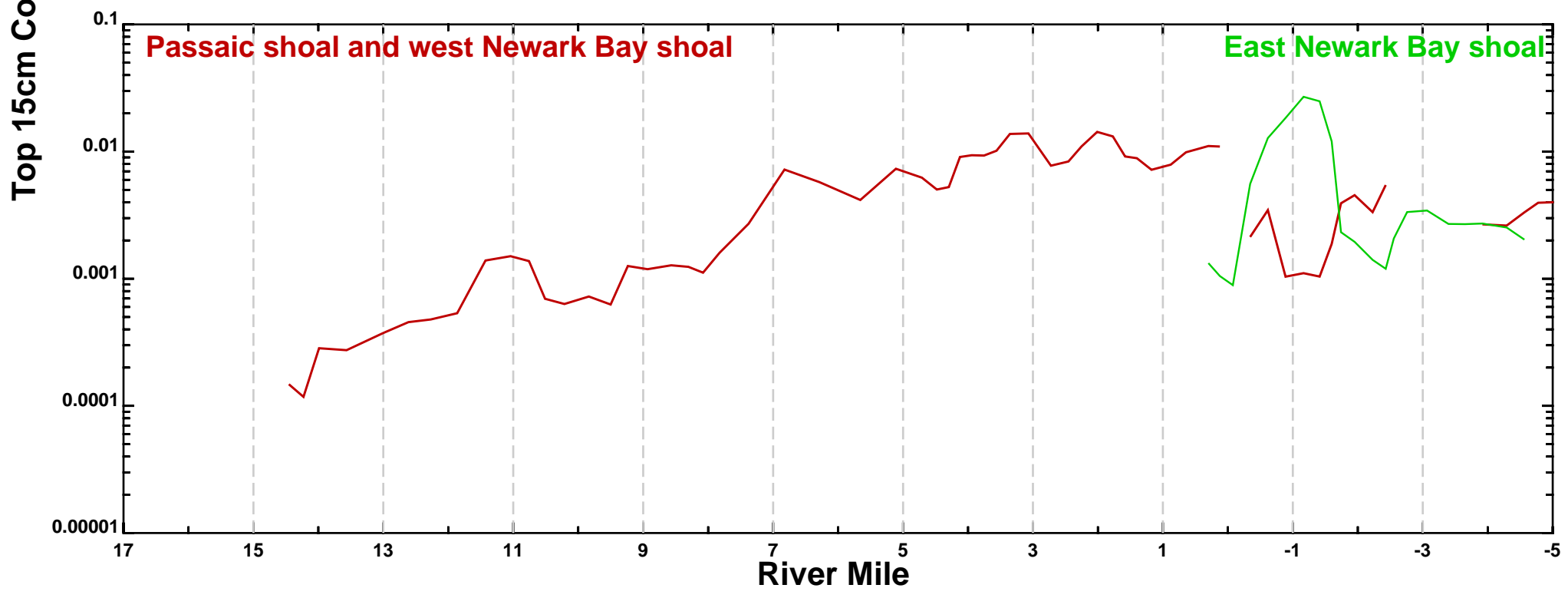
Year =1996.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

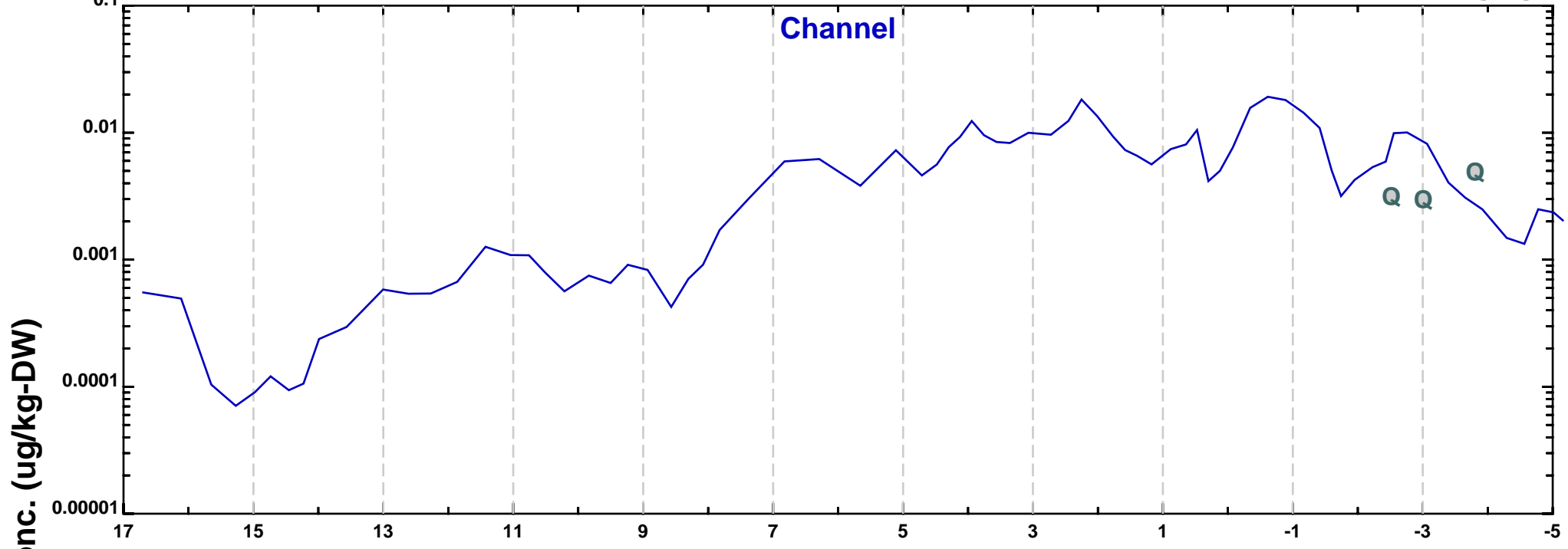
East Newark Bay shoal





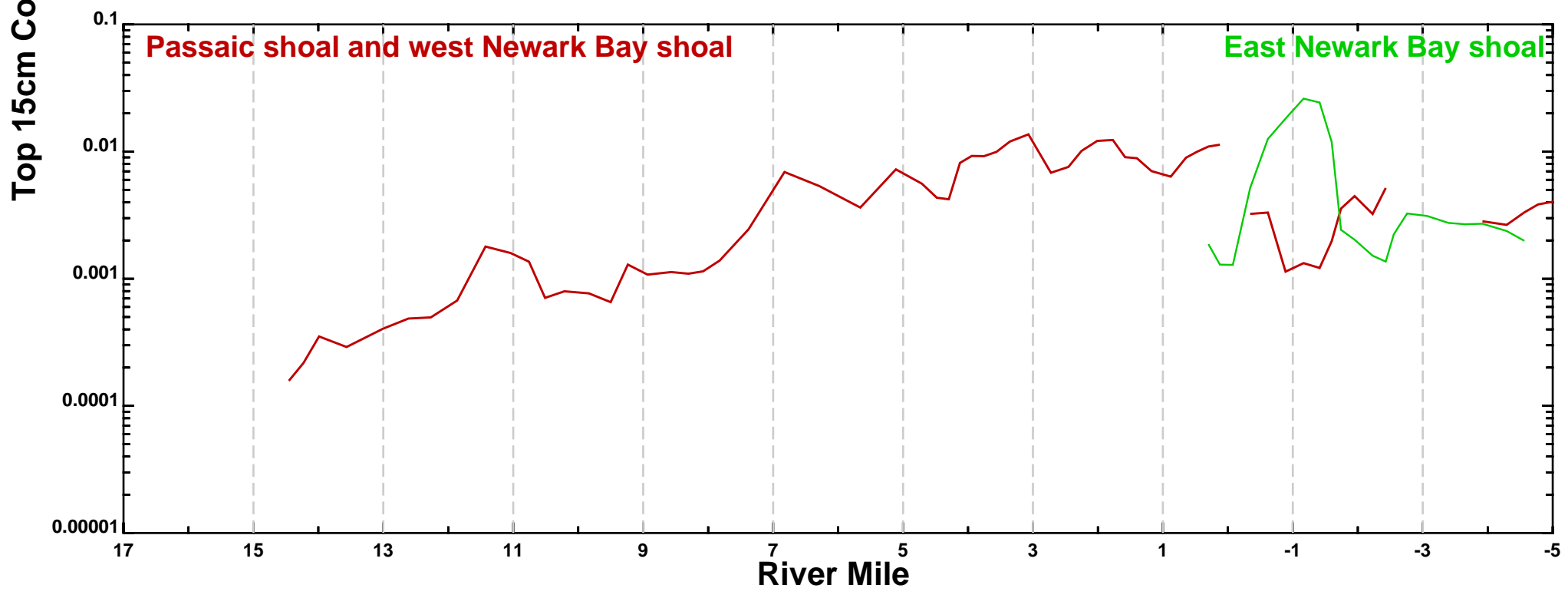
Year =1997.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



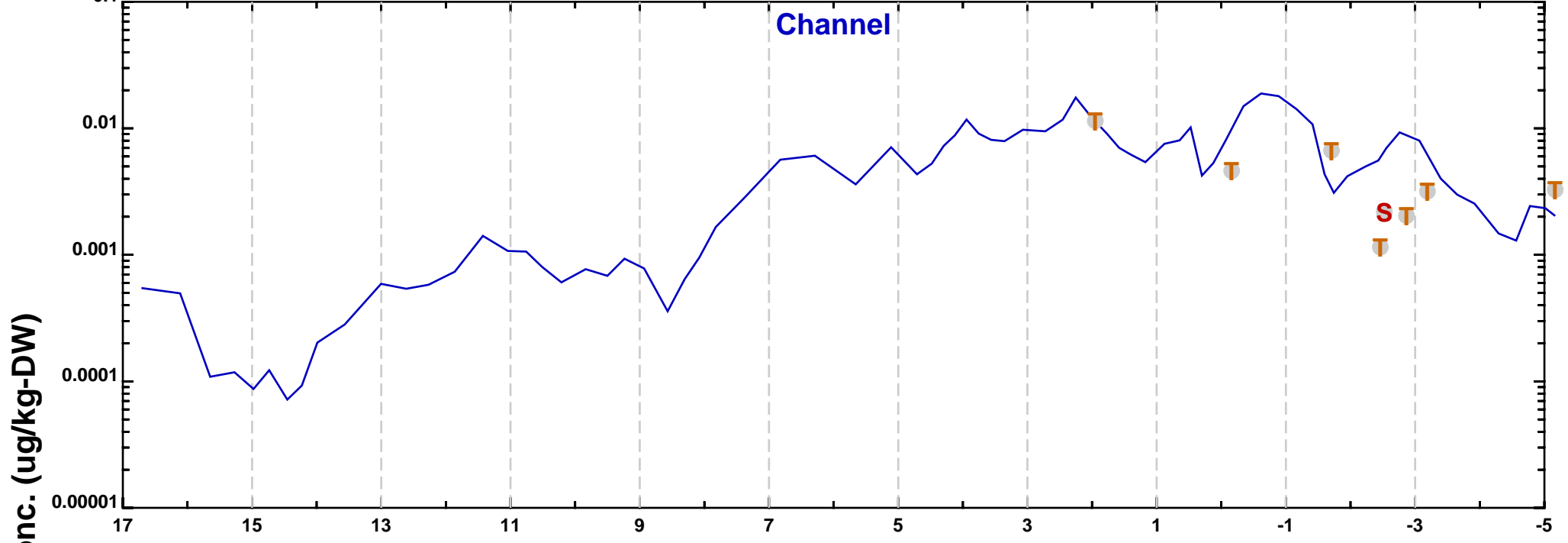
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



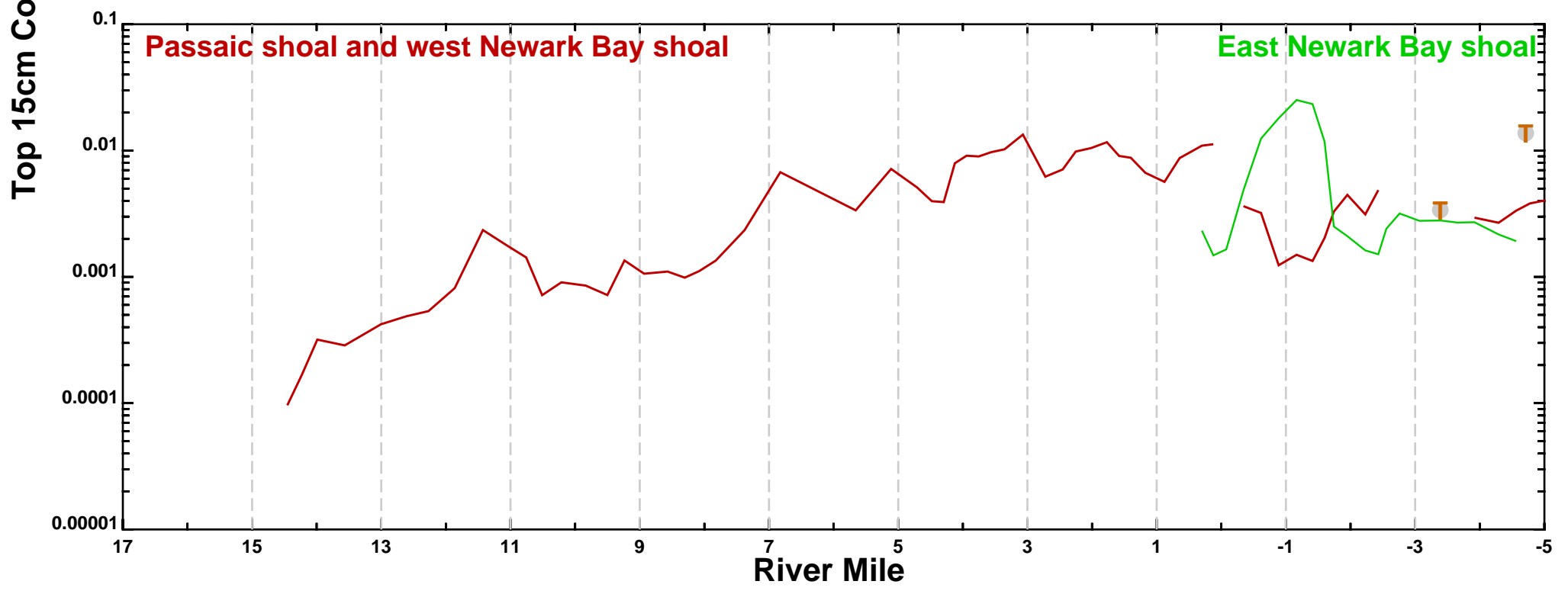
Year =1998.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



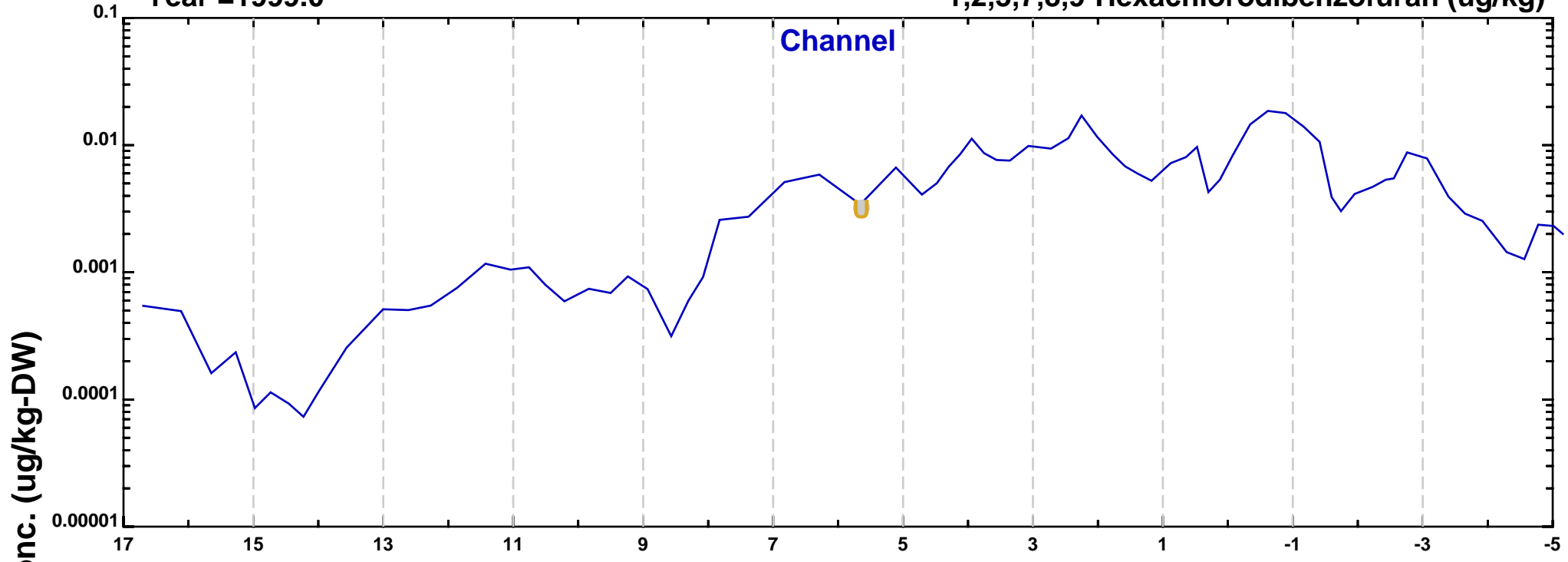
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



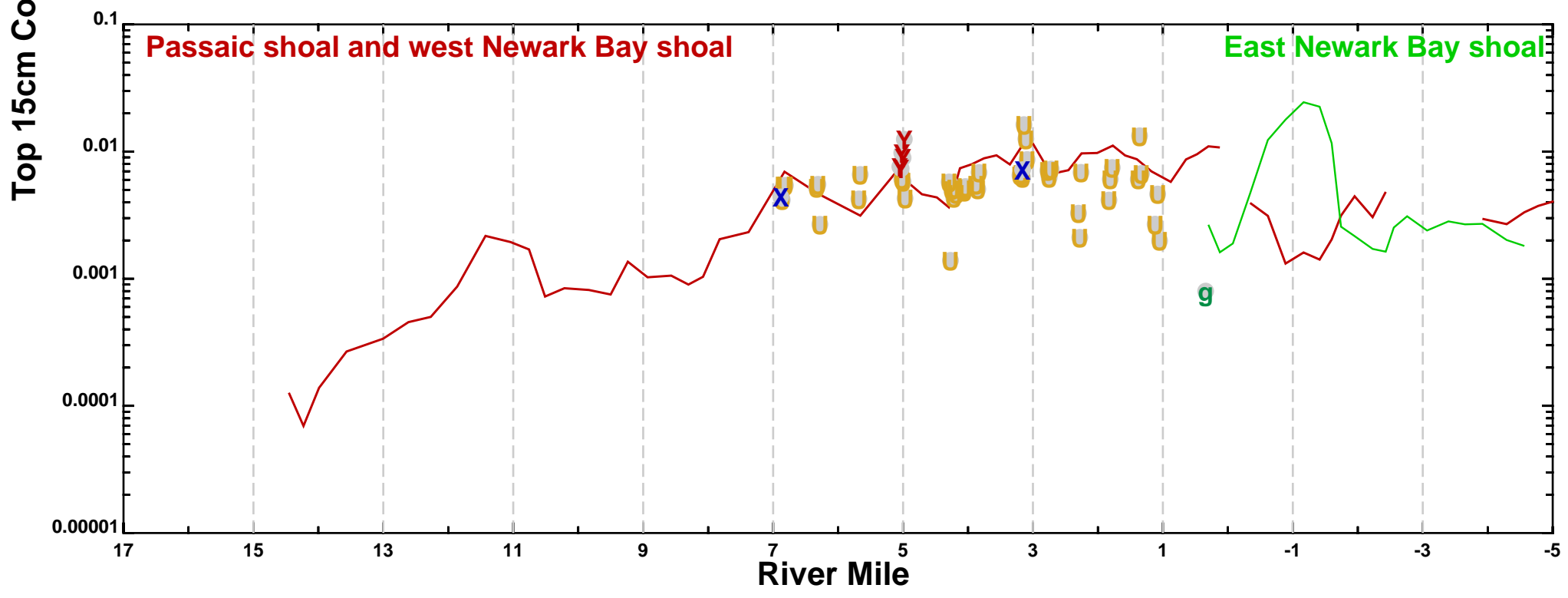
Year = 1999.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



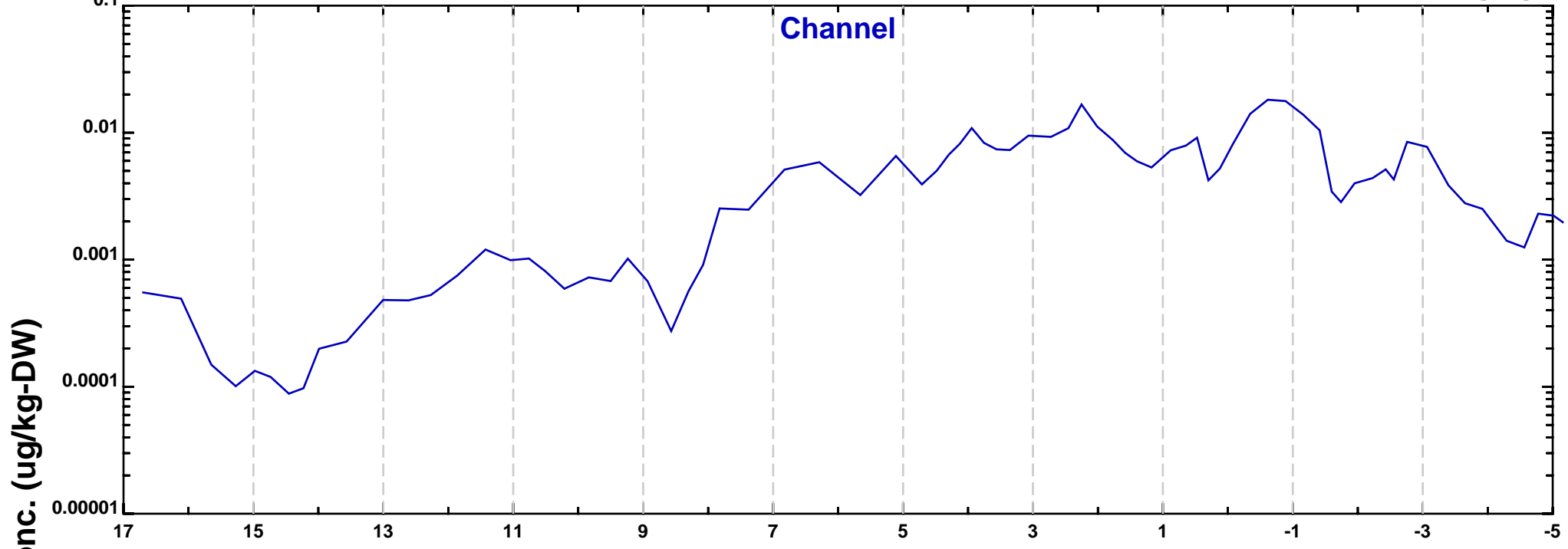
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



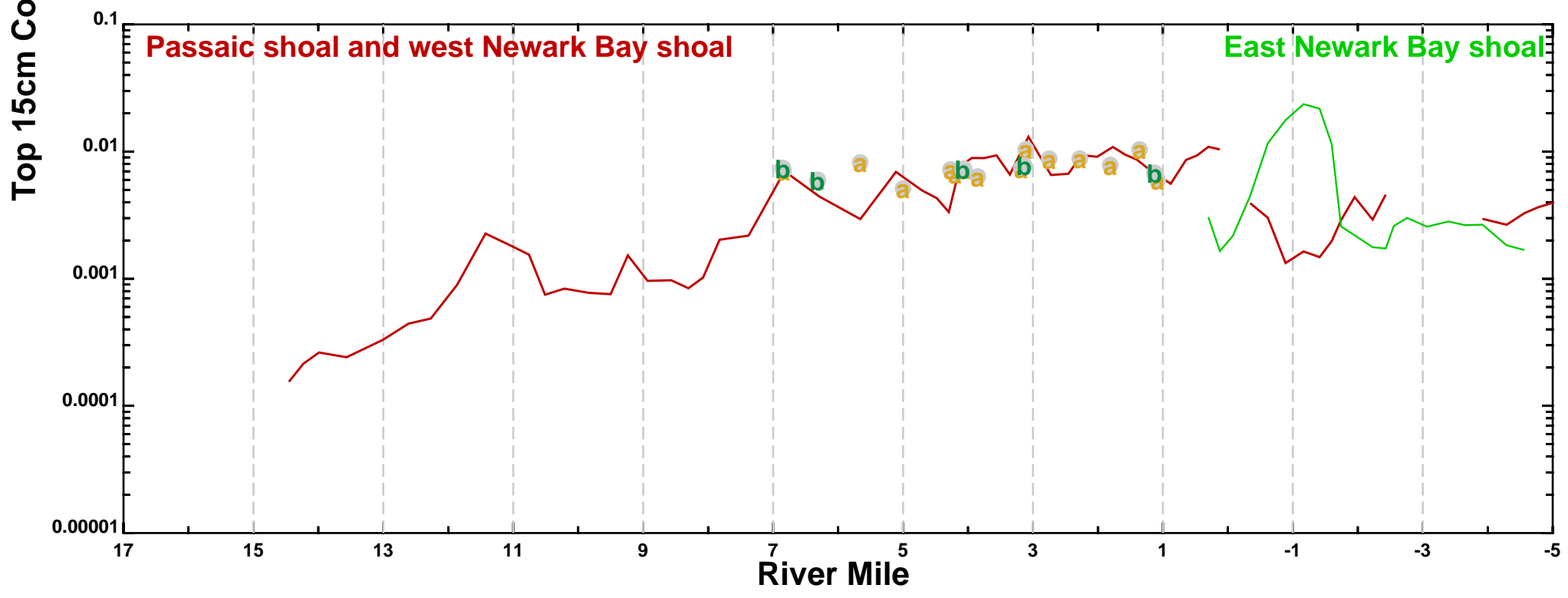
Year =2000.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



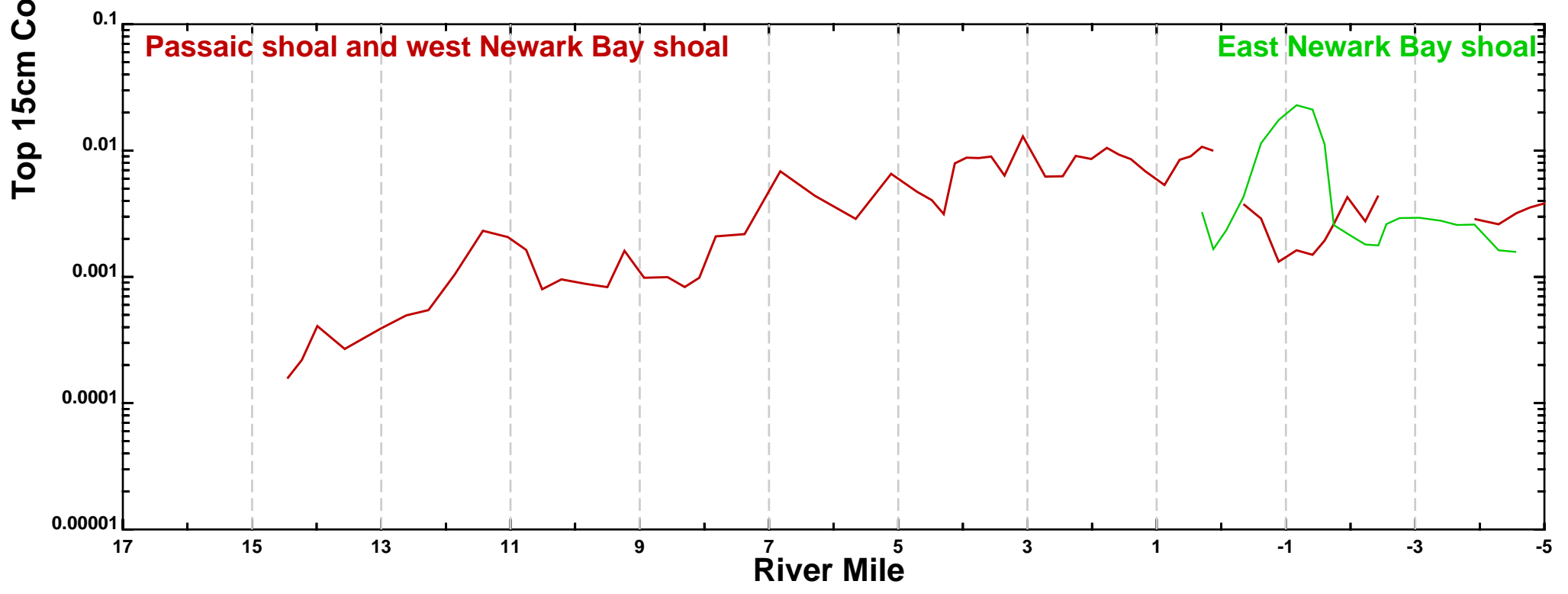
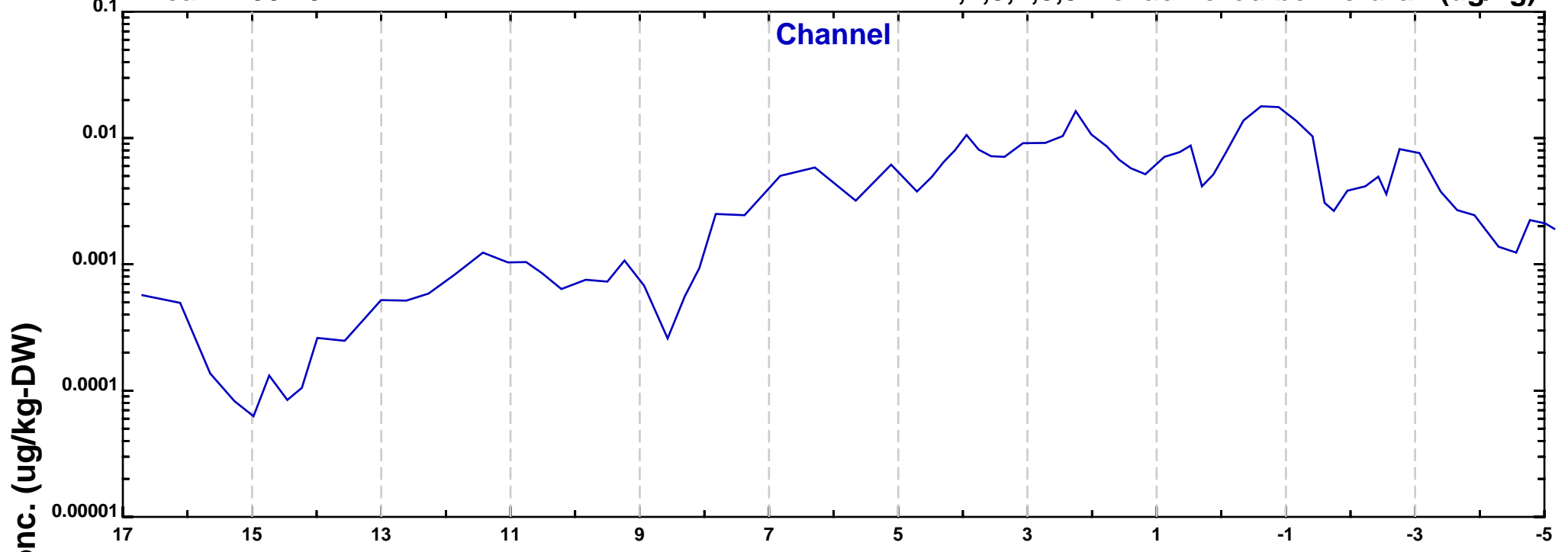
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



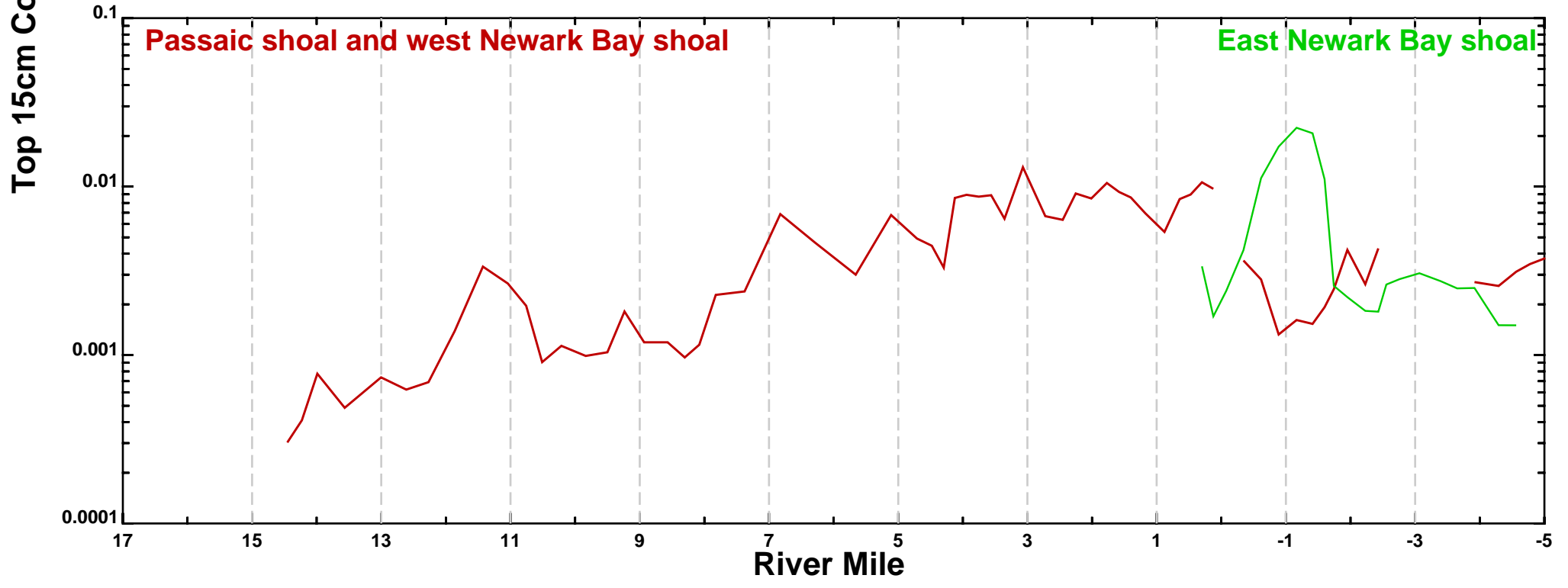
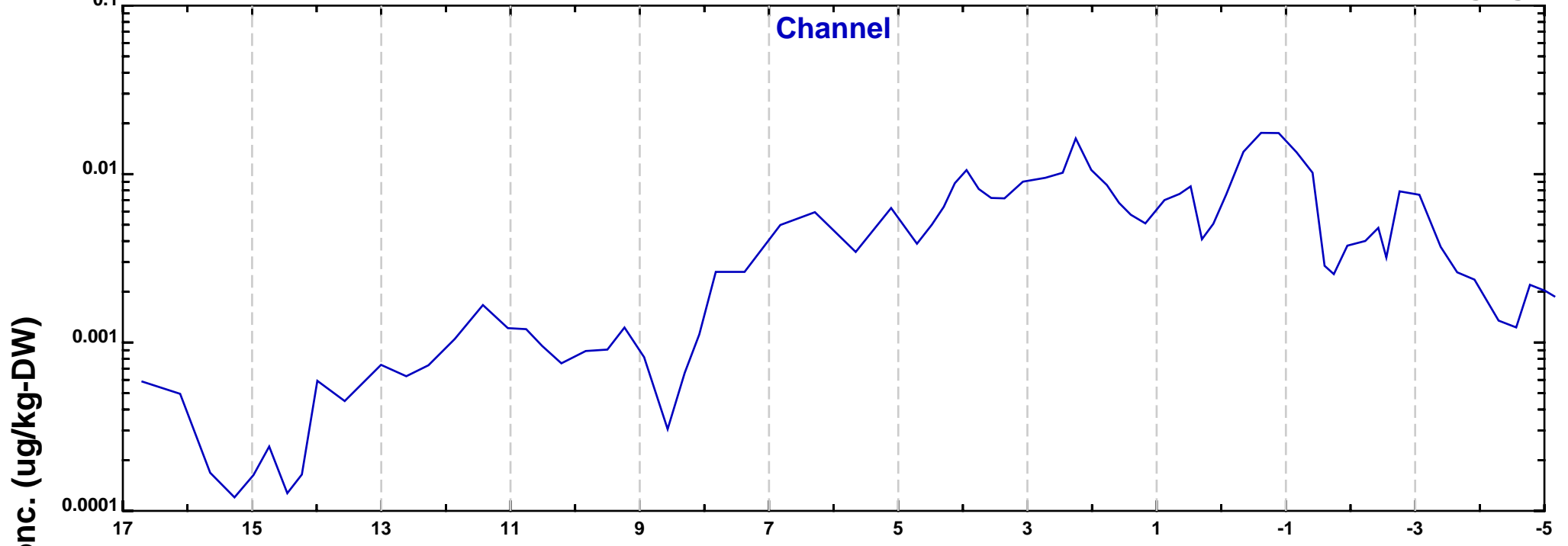
Year =2001.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



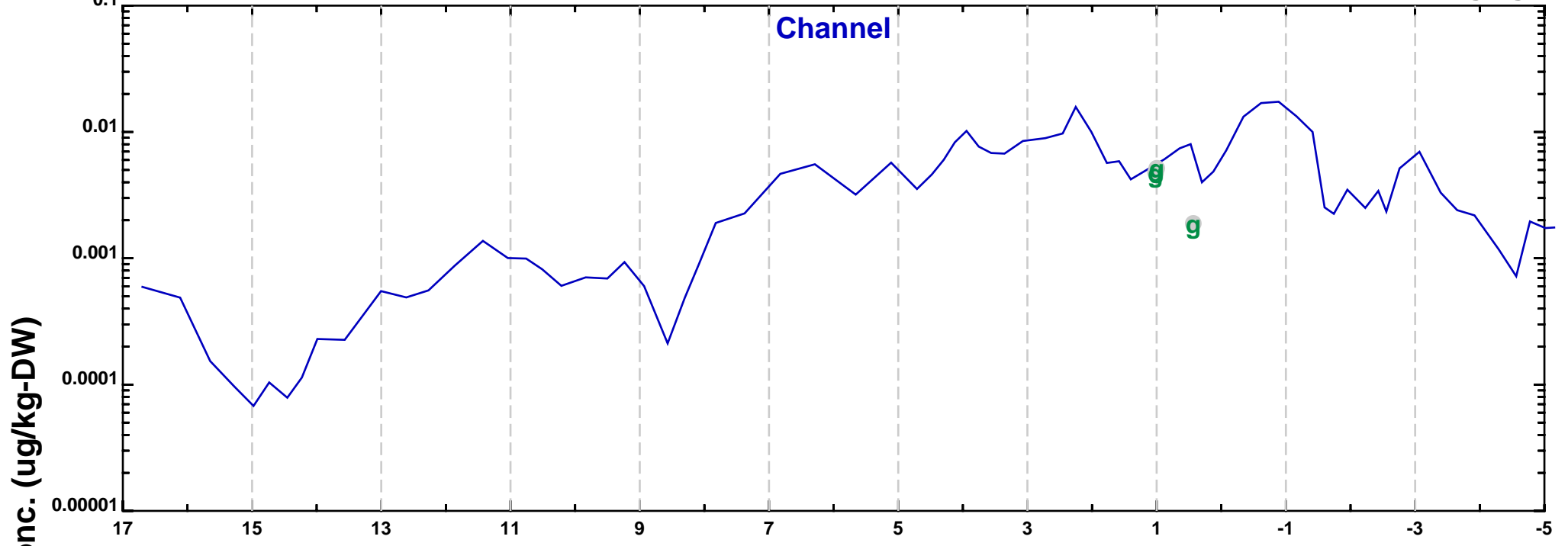
Year =2002.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



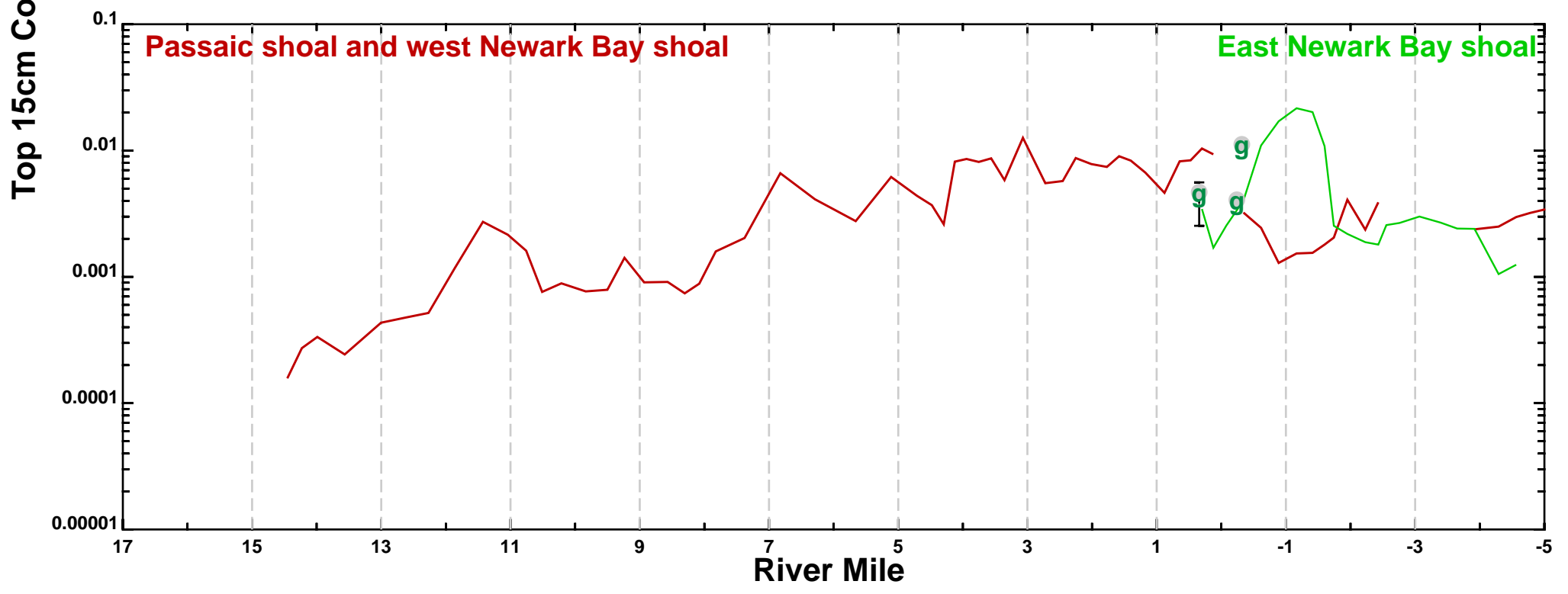
Year =2003.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

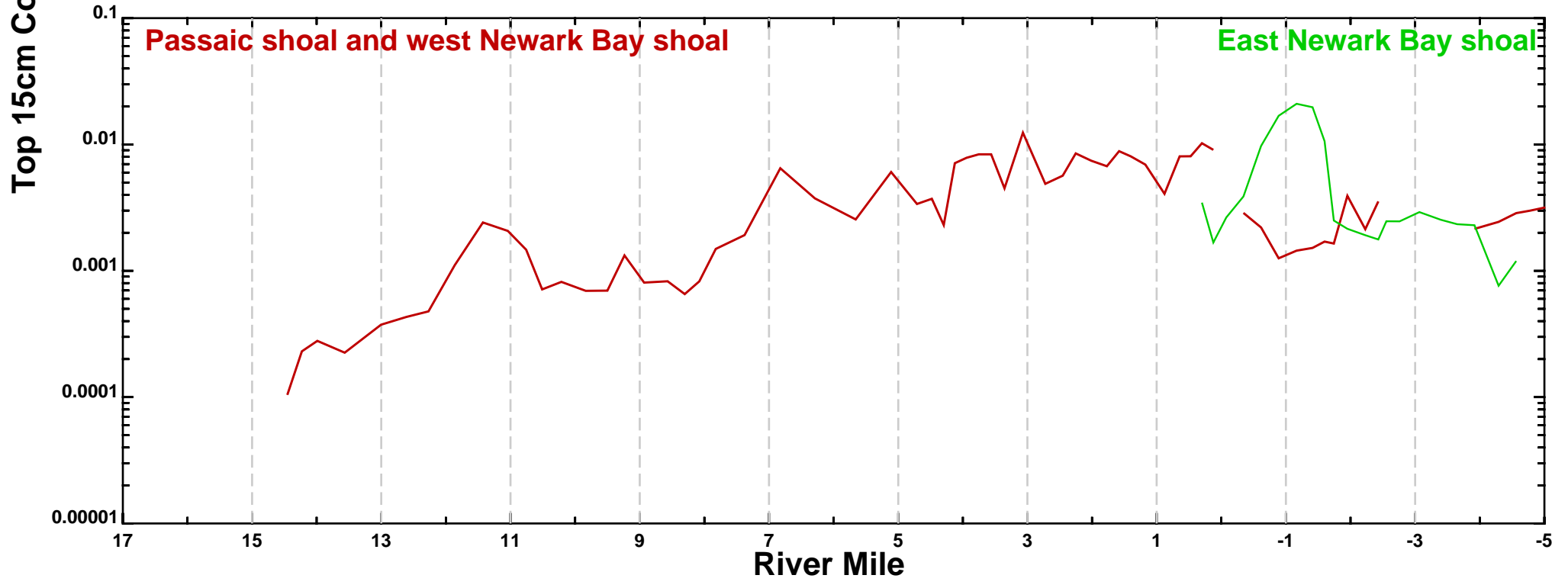
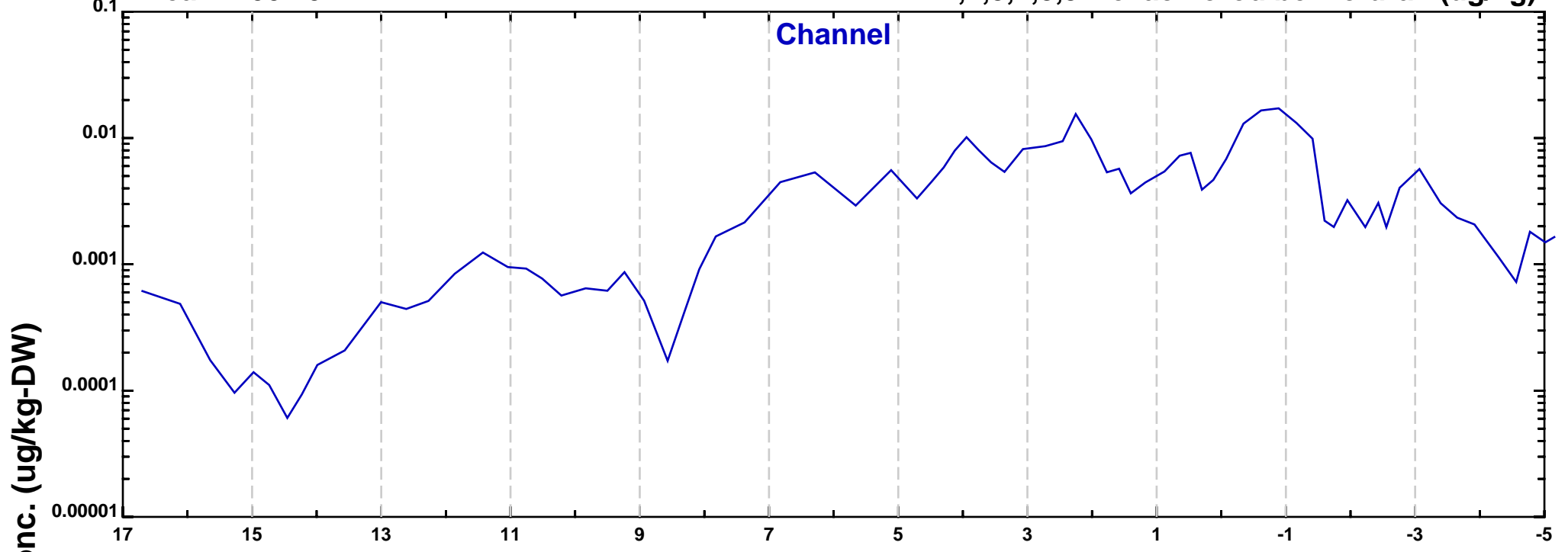
East Newark Bay shoal



River Mile

Year =2004.0

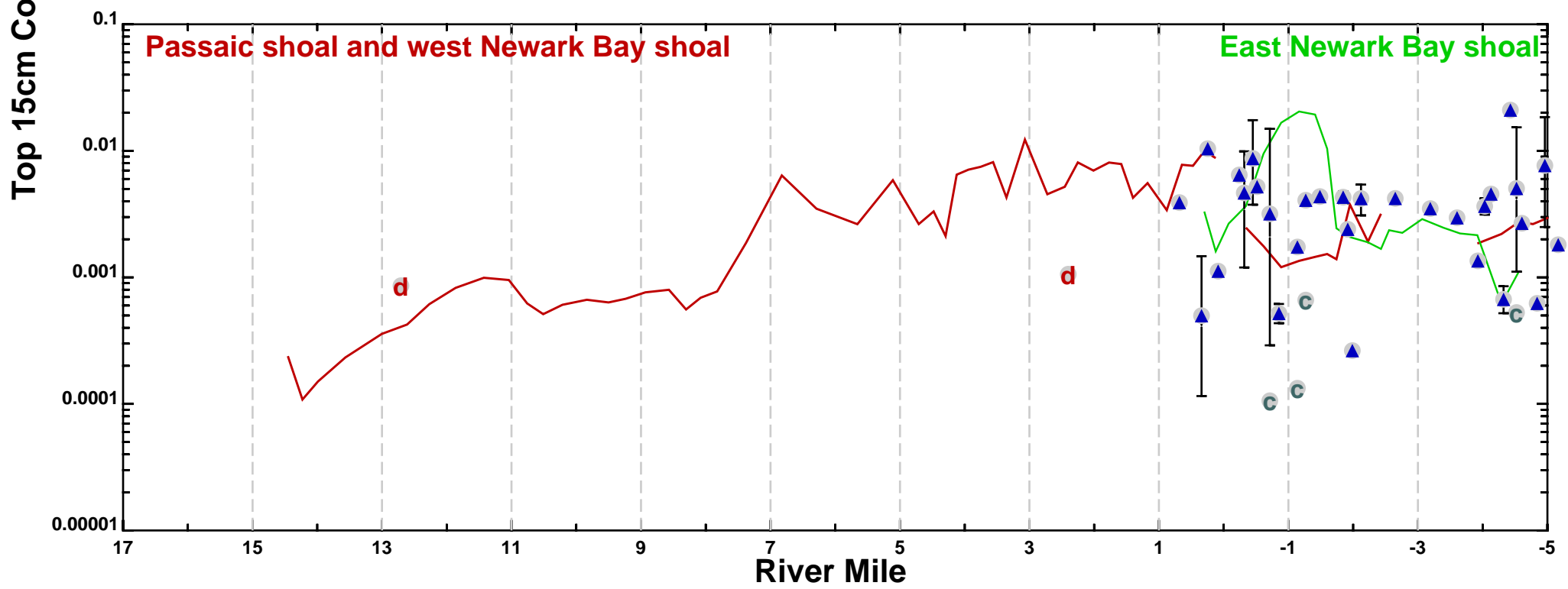
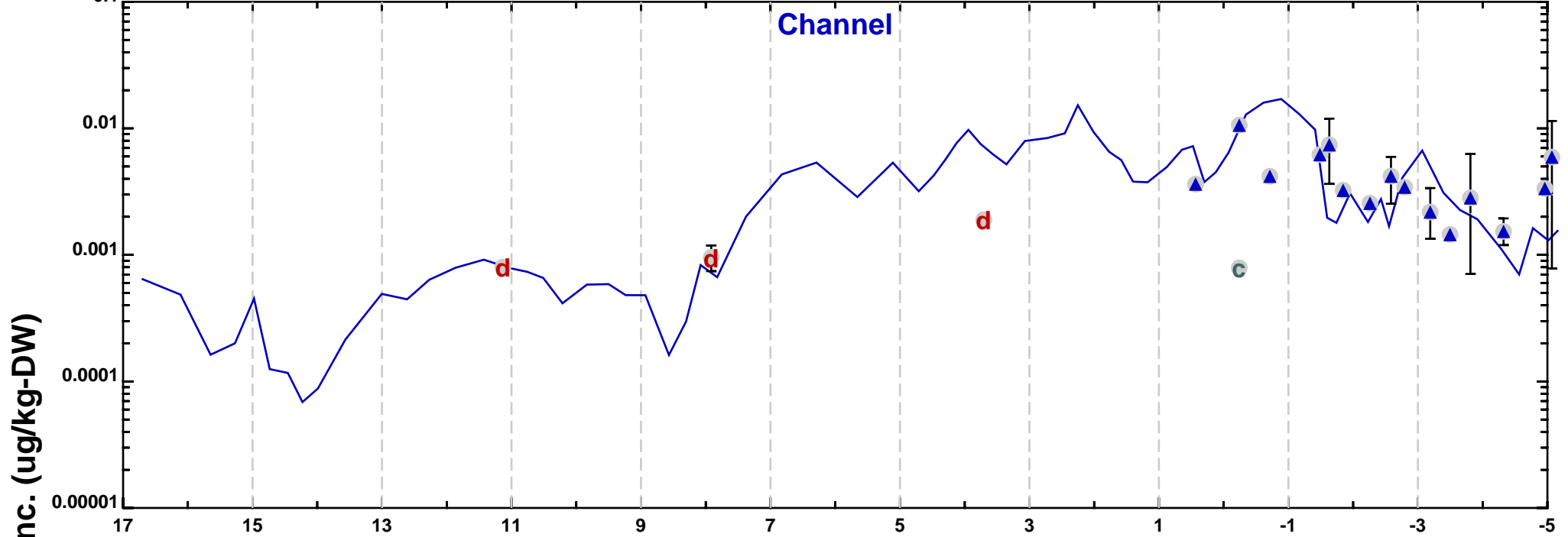
1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)





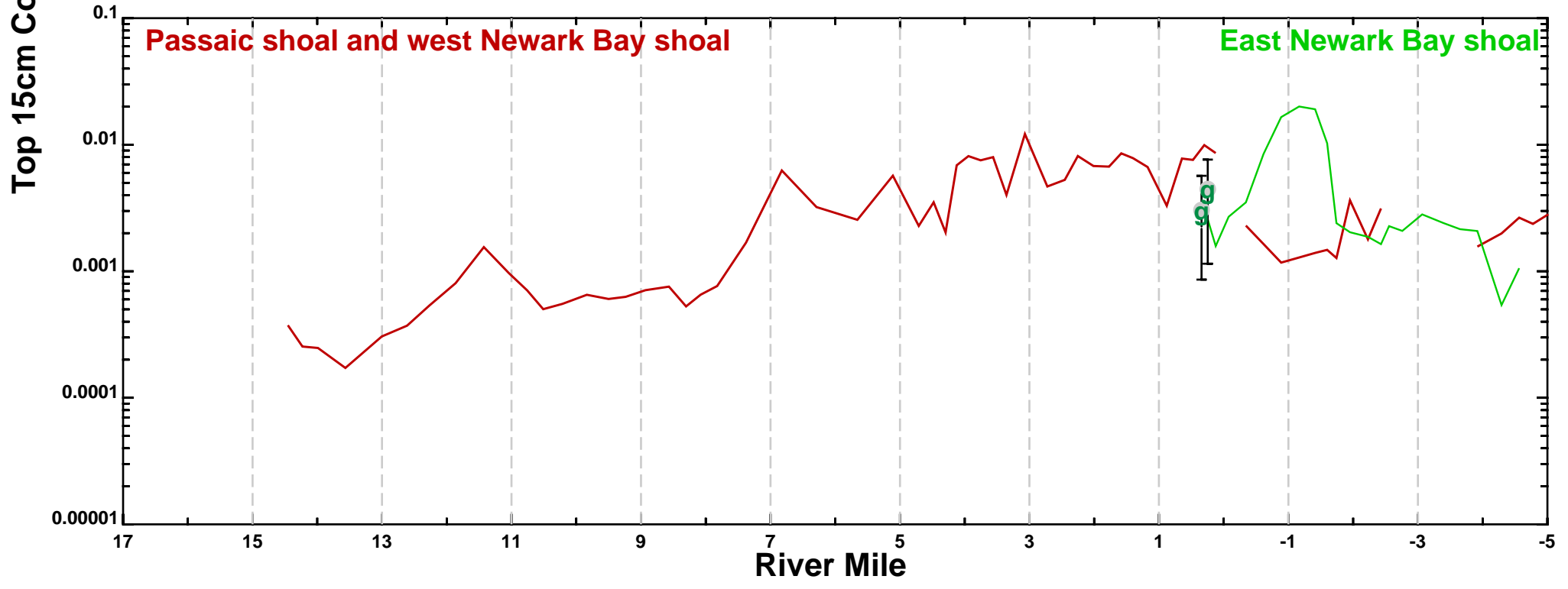
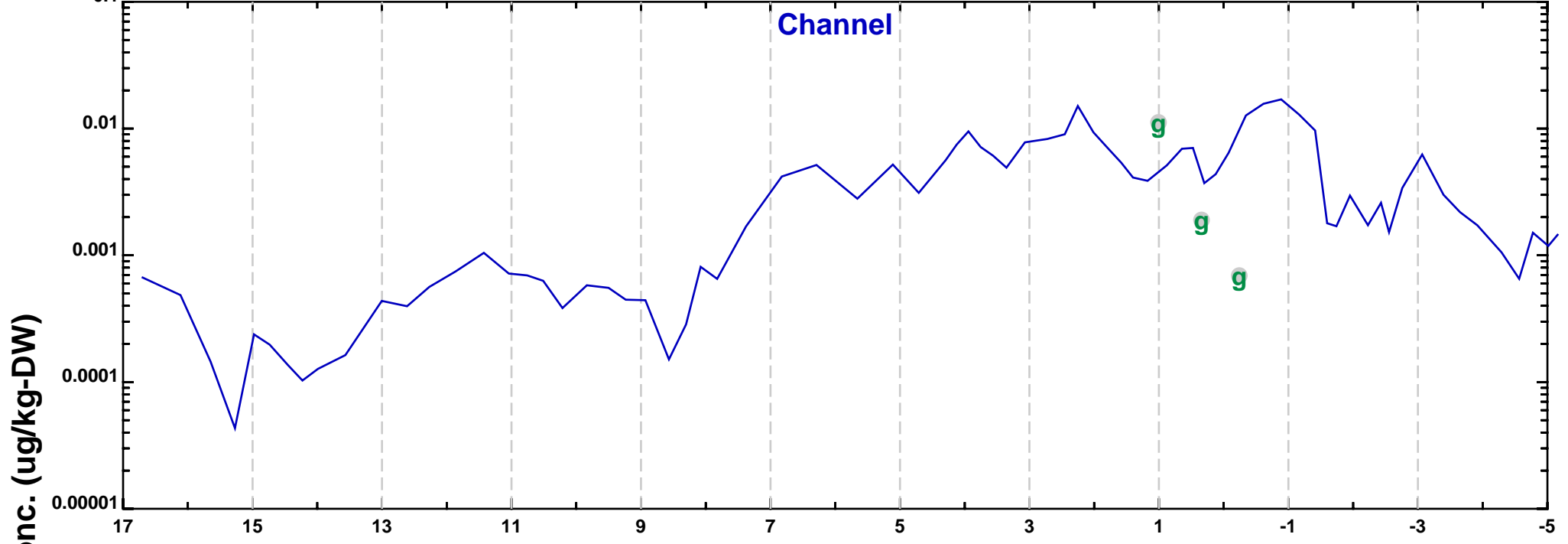
Year =2005.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



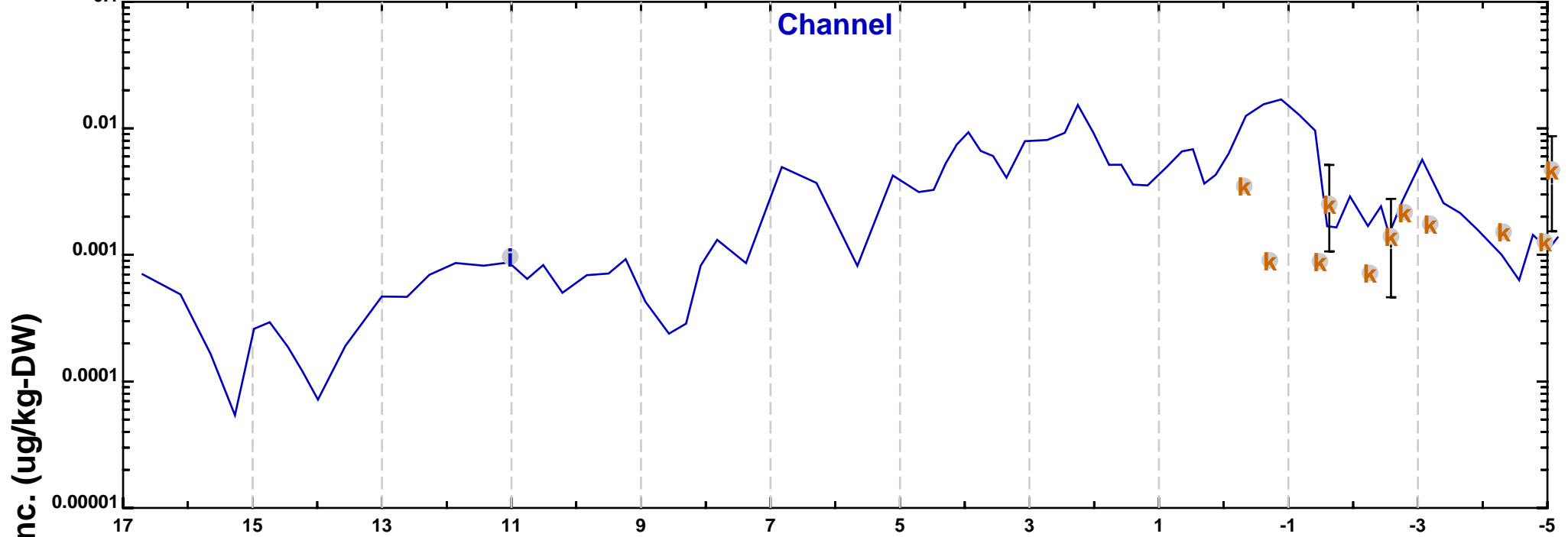
Year =2006.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



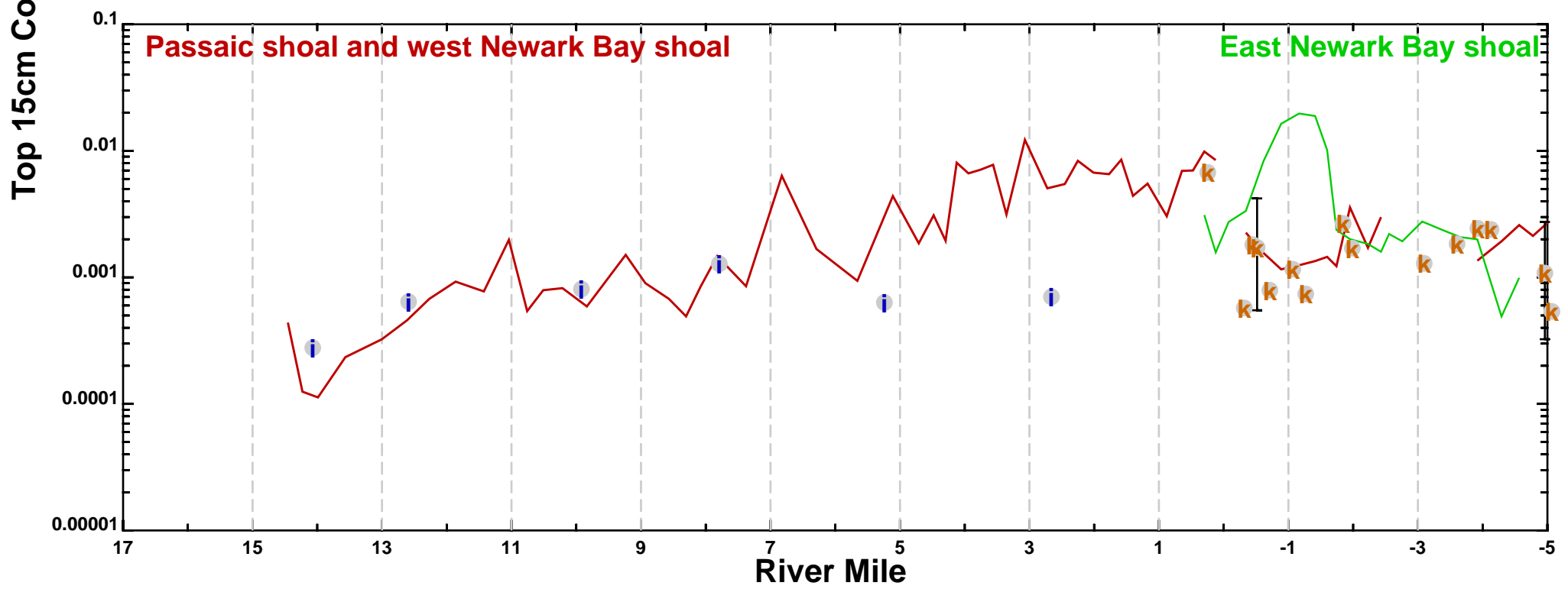
Year =2007.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



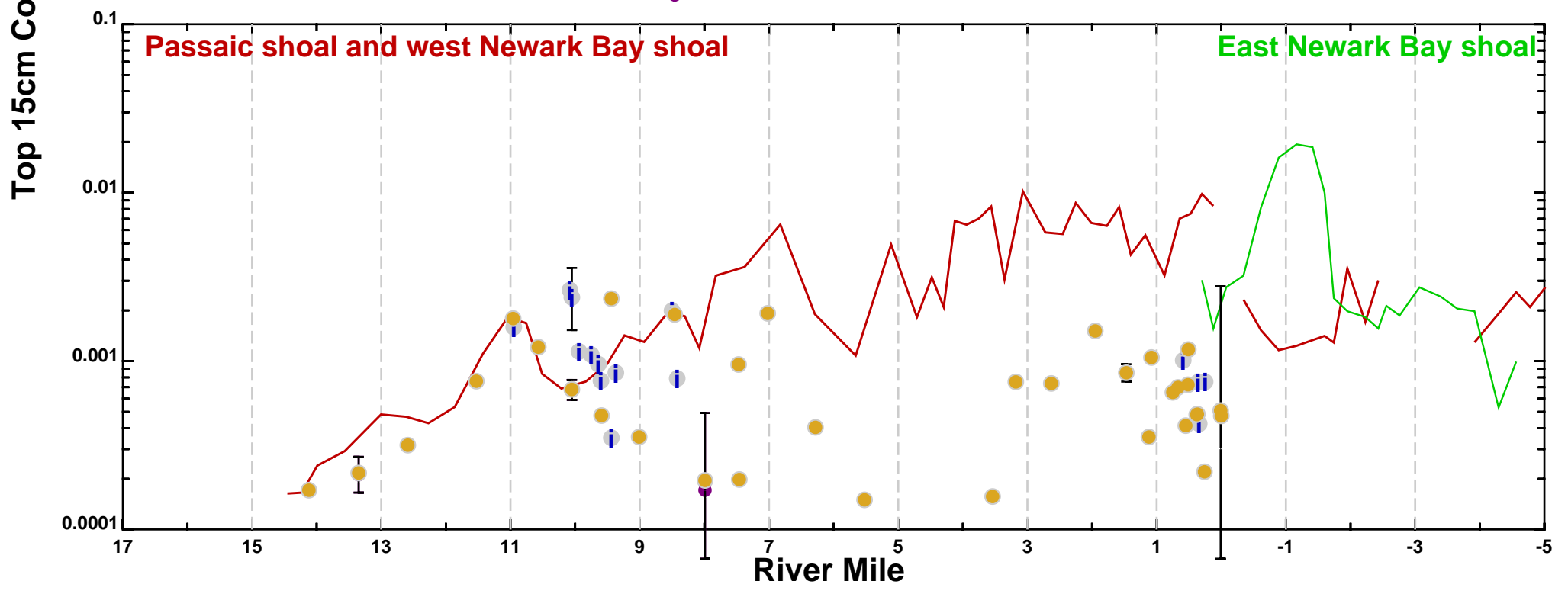
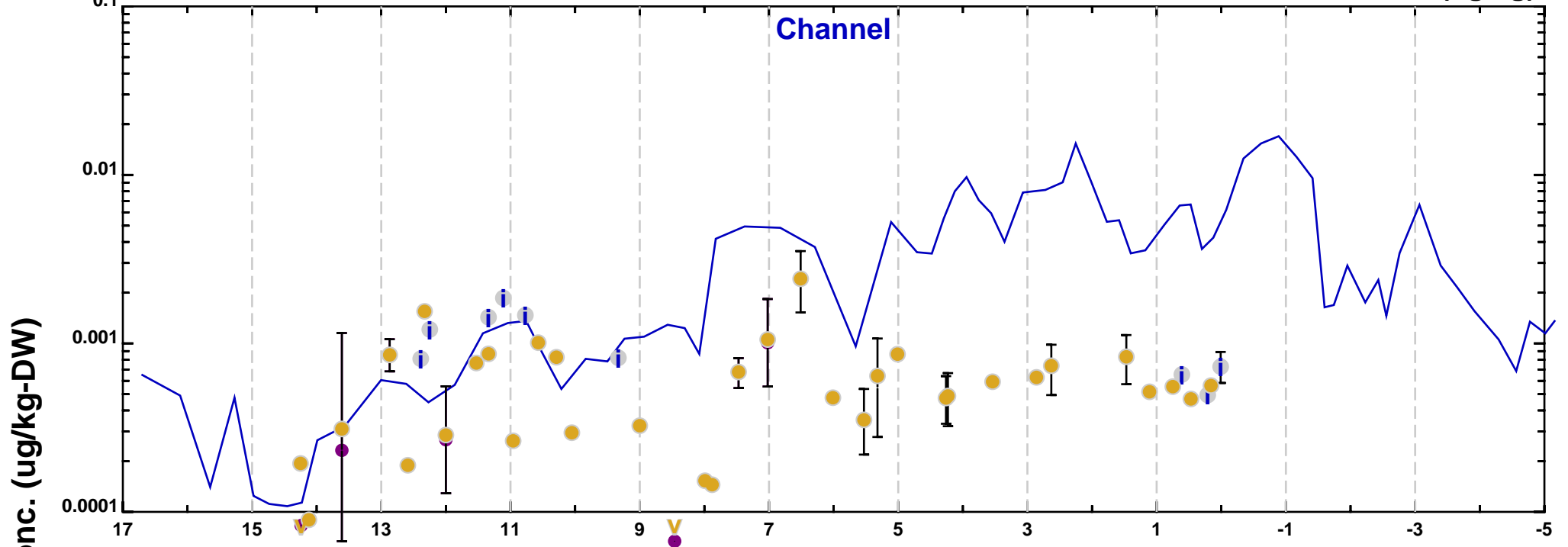
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2008.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)

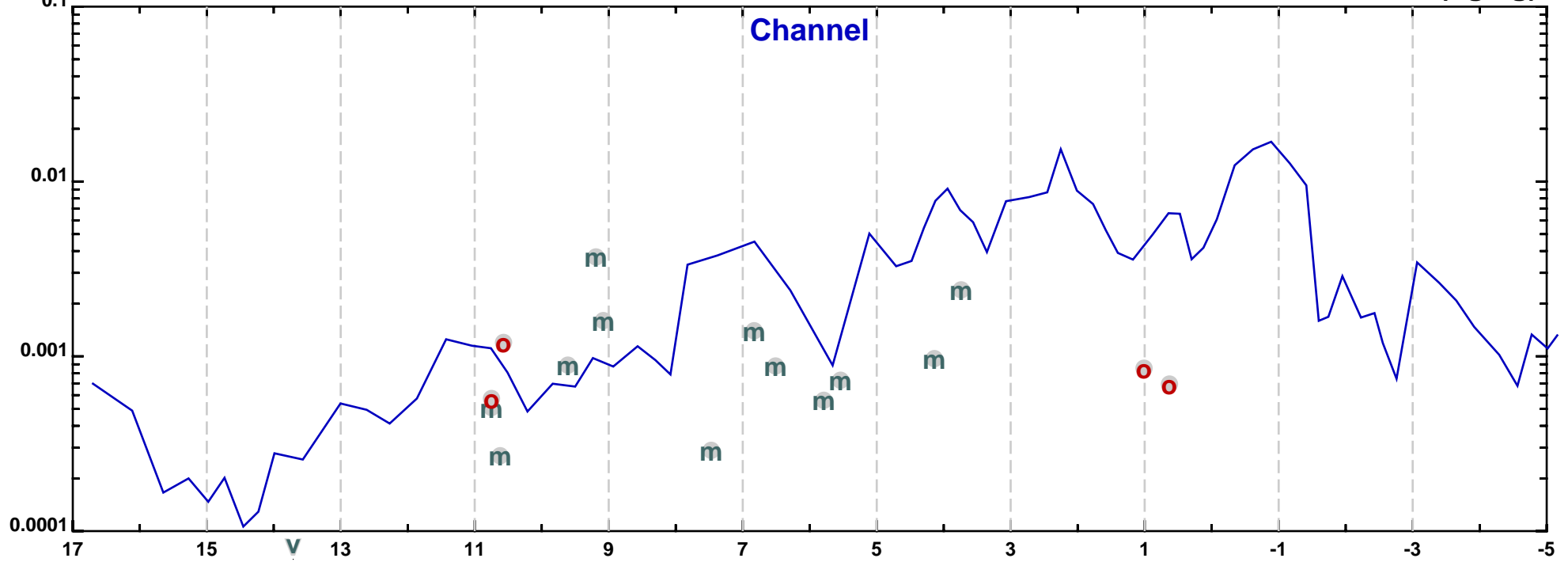


Year =2009.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)

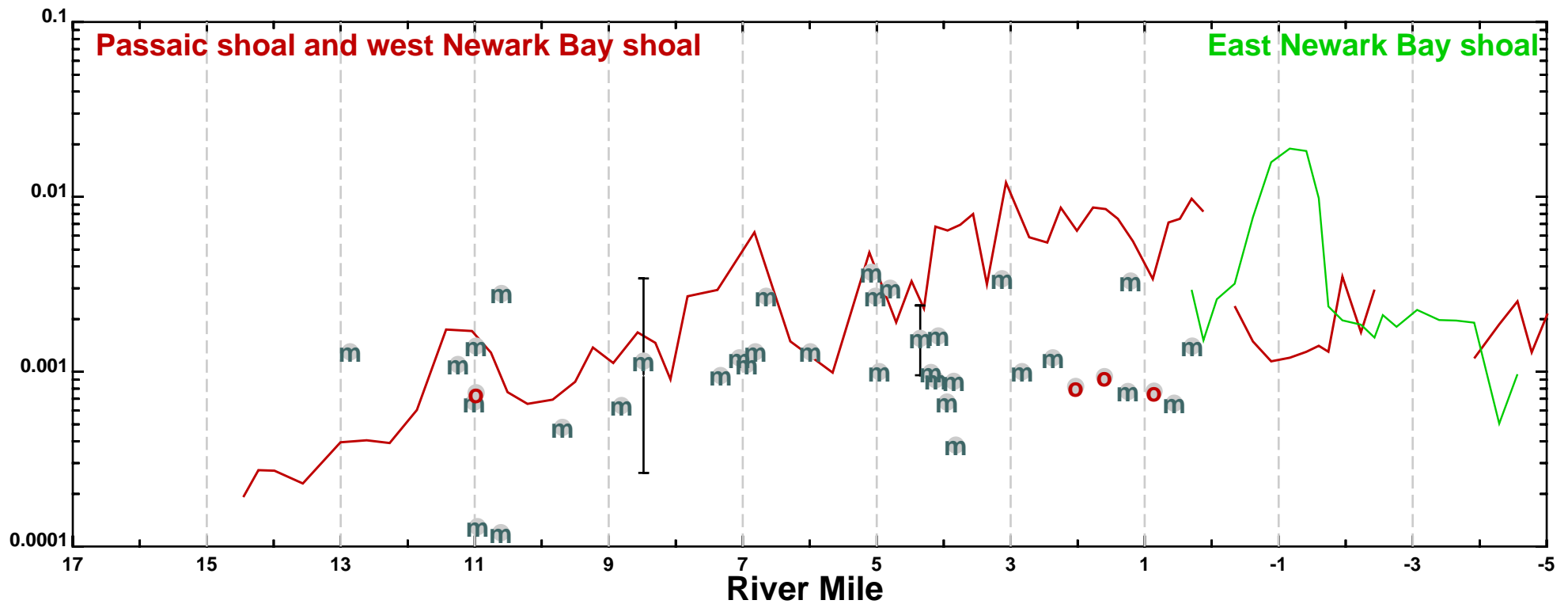
Top 15cm Conc. (ug/kg-DW)

Channel



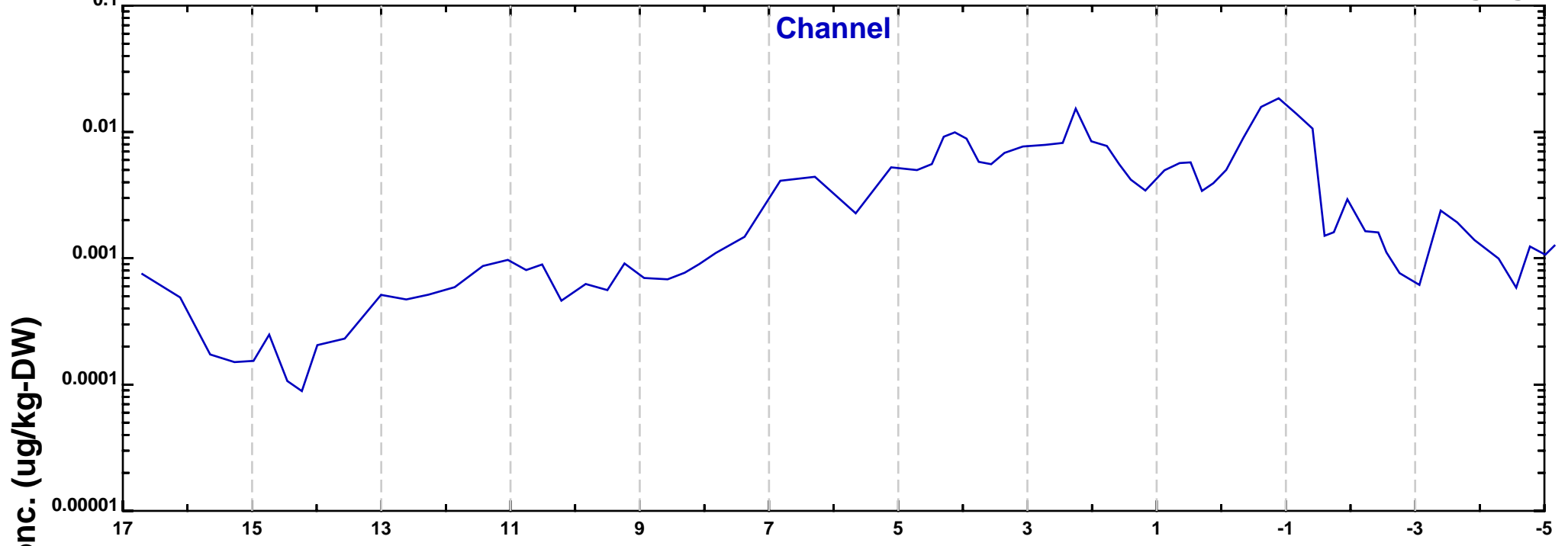
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



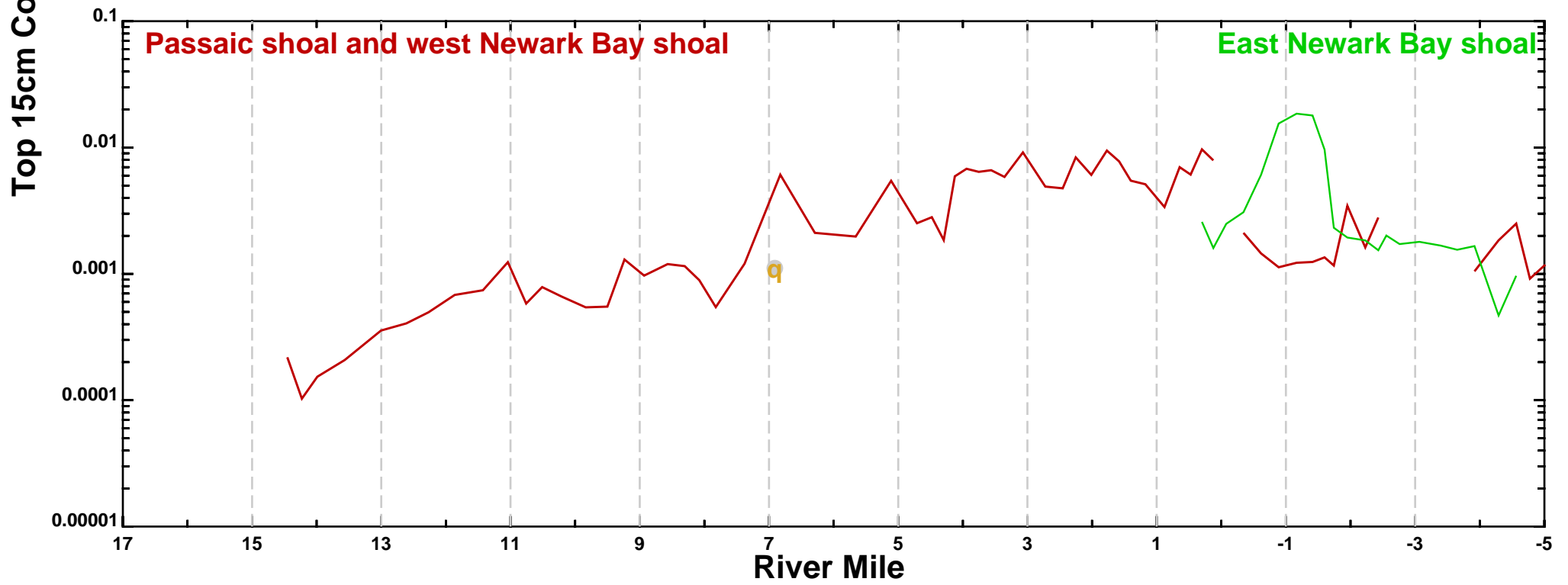
Year =2010.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

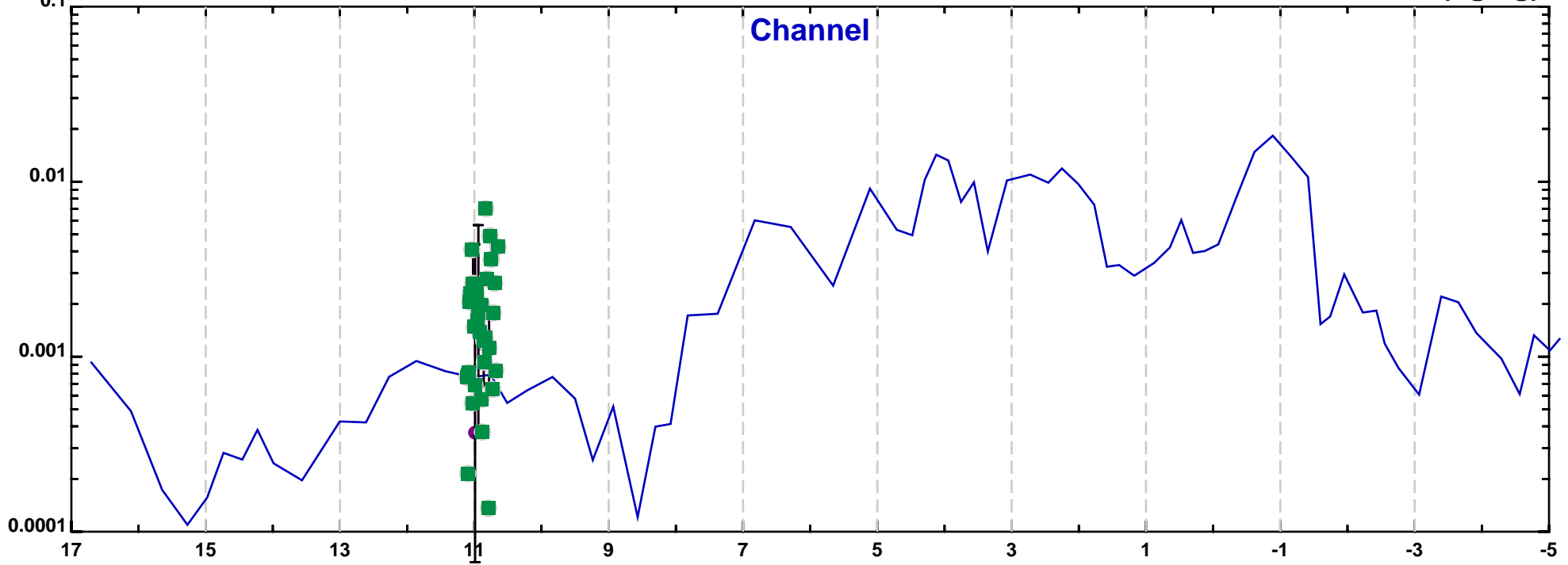


Year =2011.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)

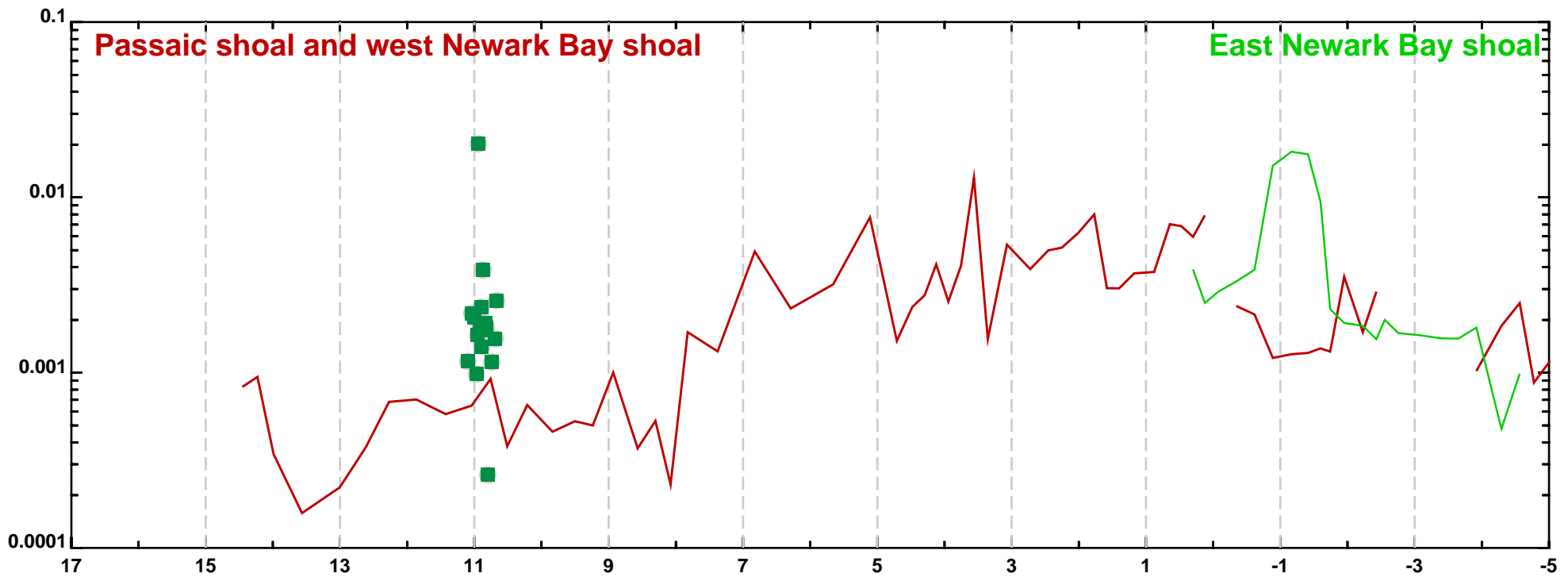
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

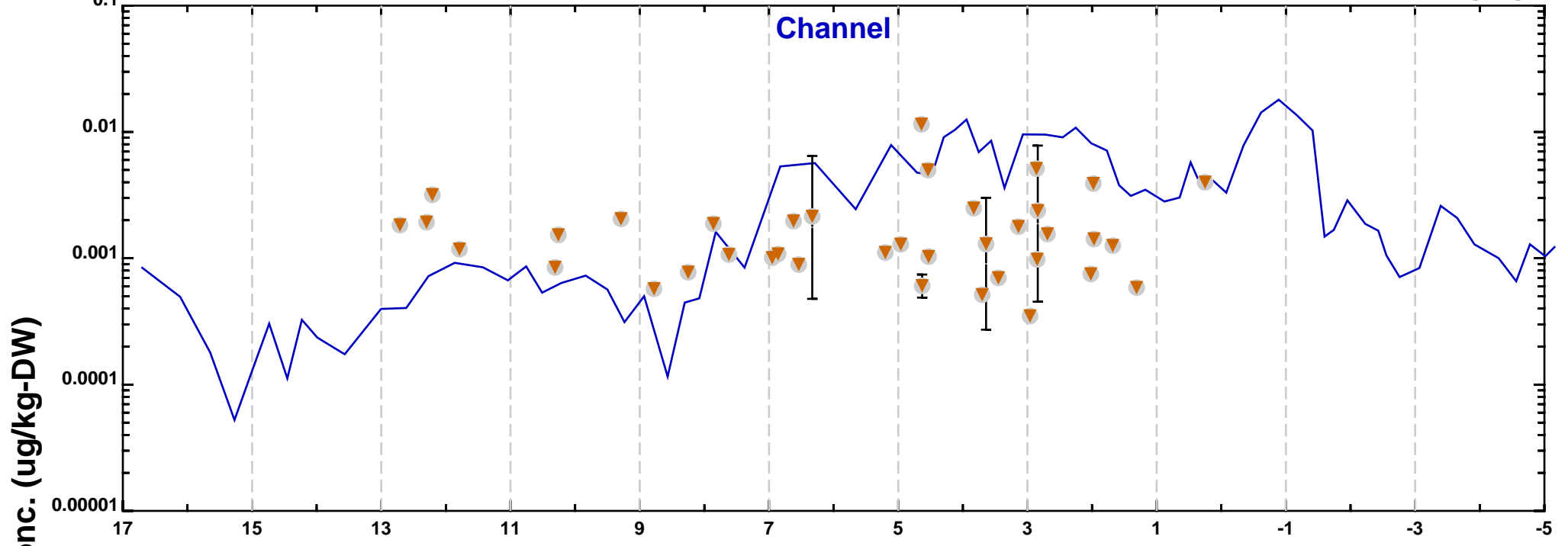
East Newark Bay shoal



River Mile

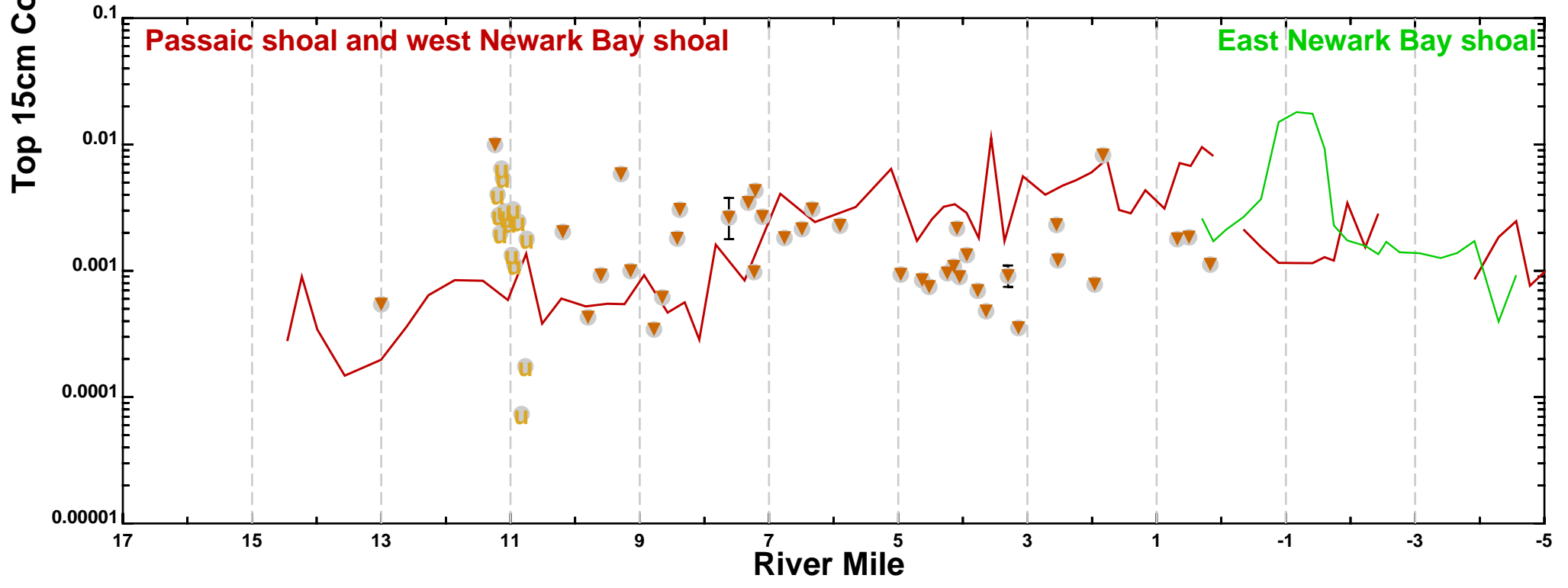
Year =2012.0

1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



**Passaic shoal and west Newark Bay shoal**

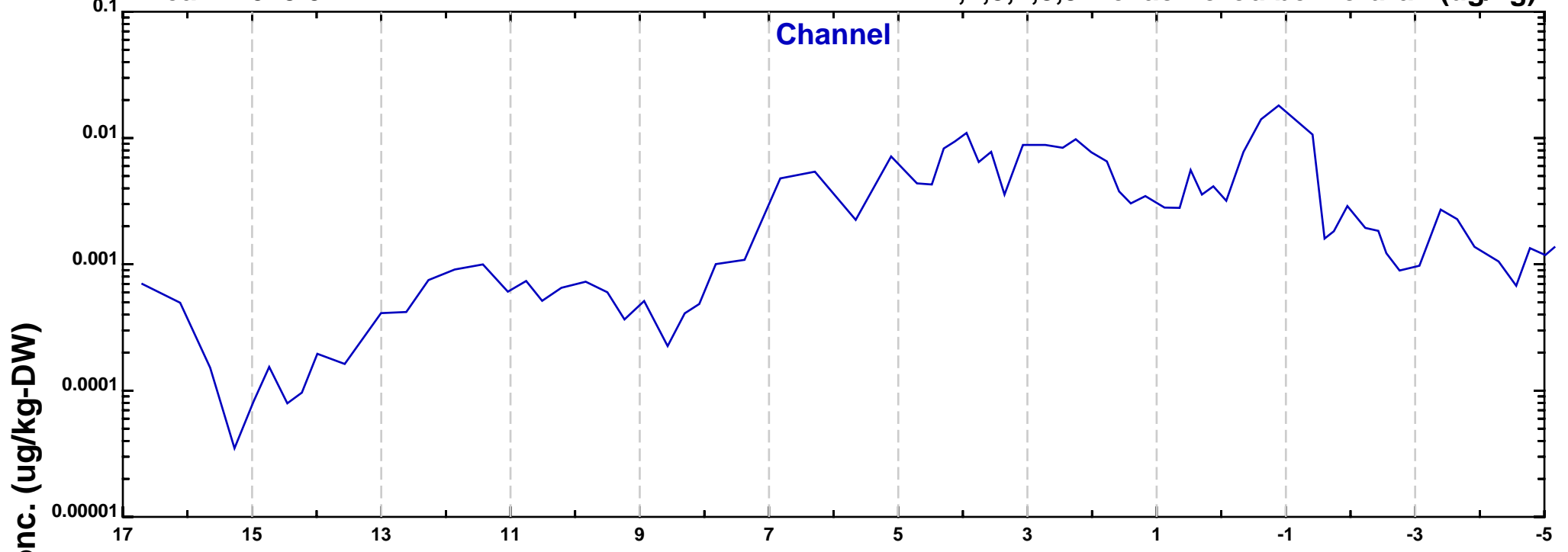
**East Newark Bay shoal**





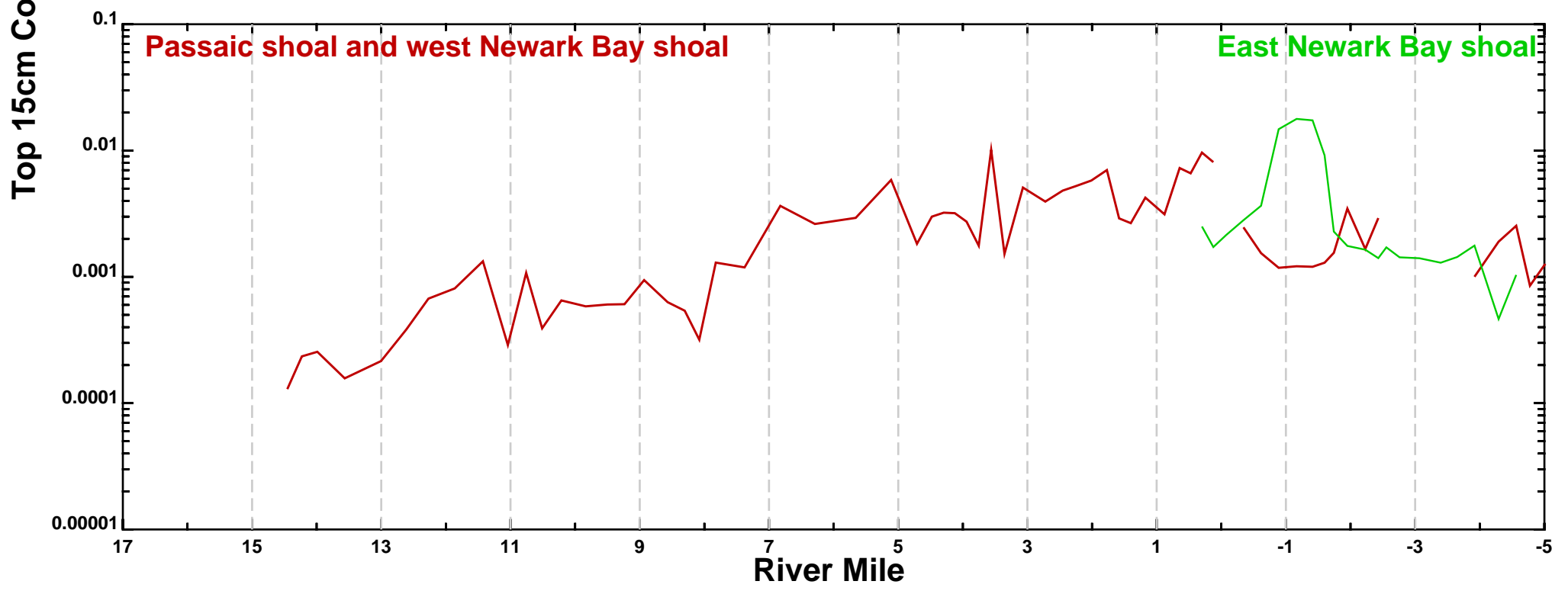
Year =2013.0

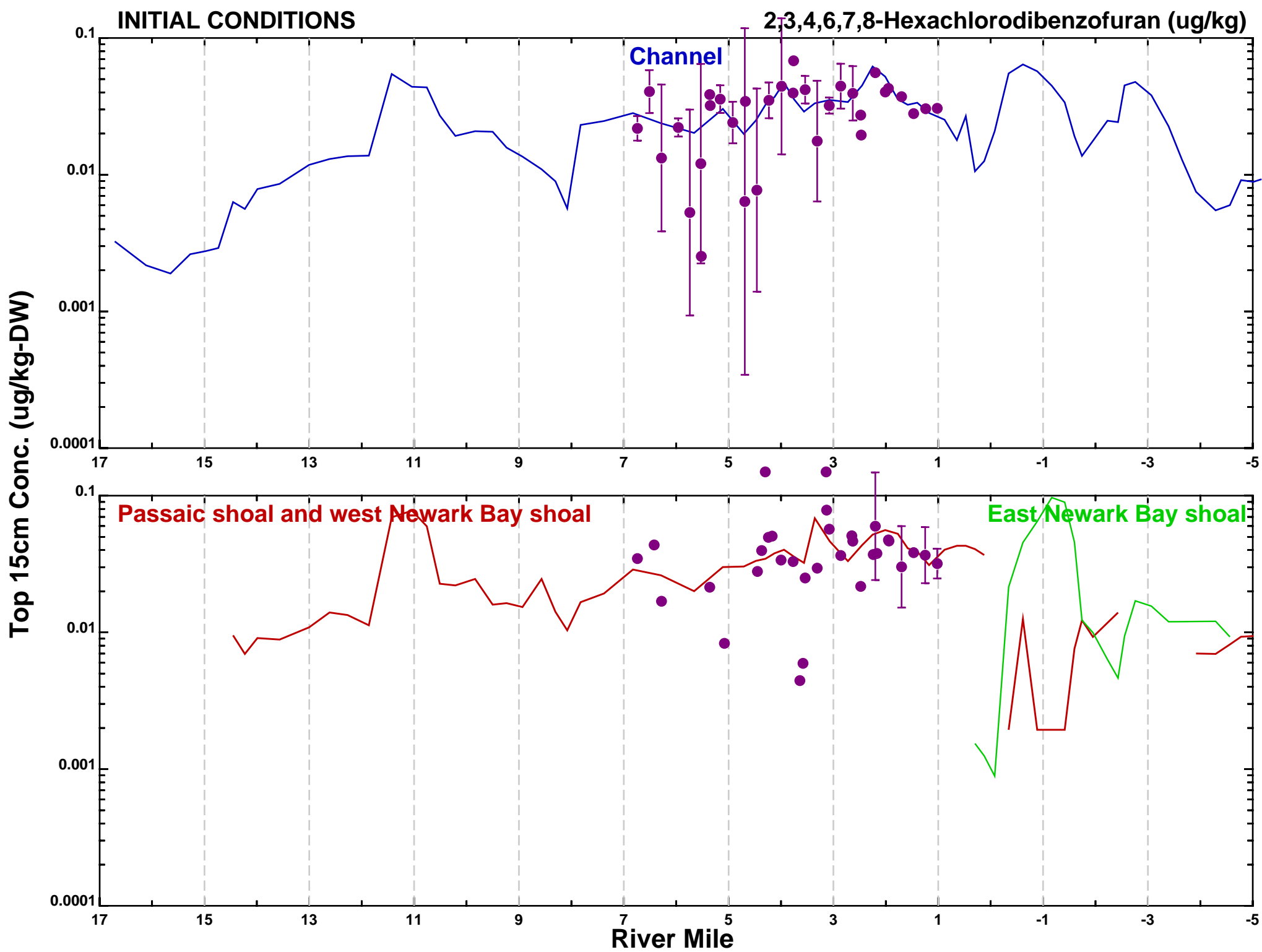
1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



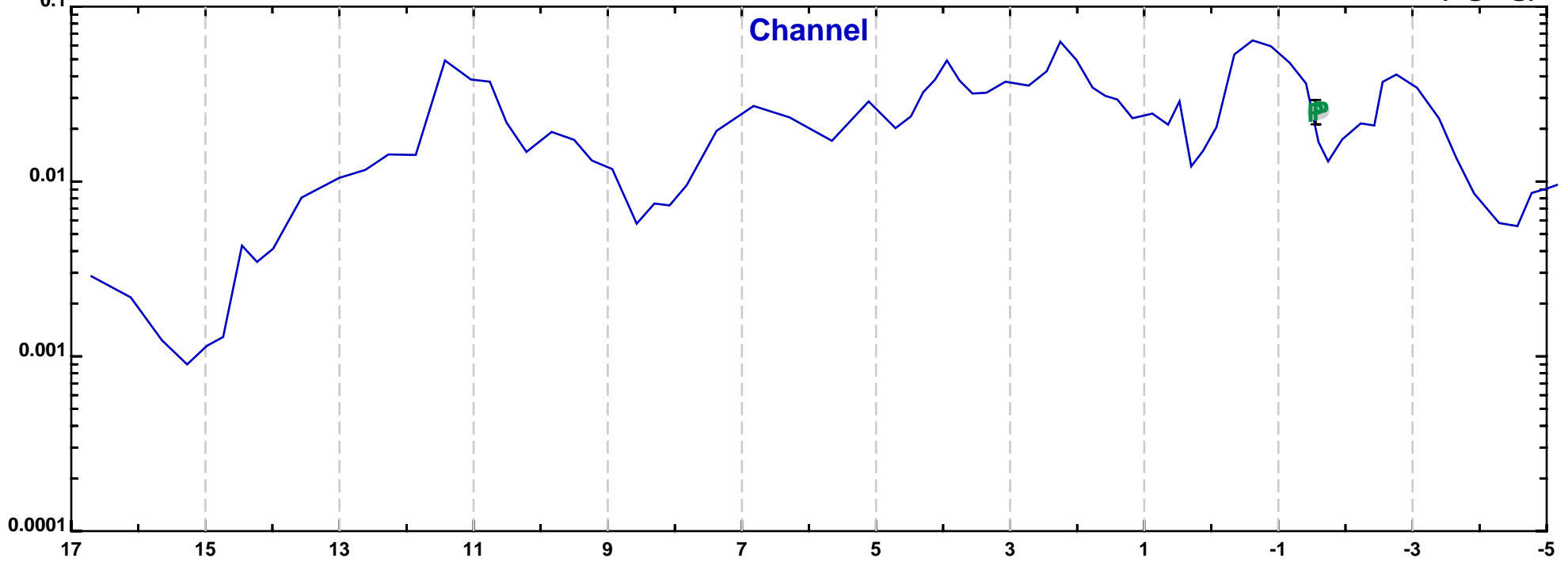


Year = 1996.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

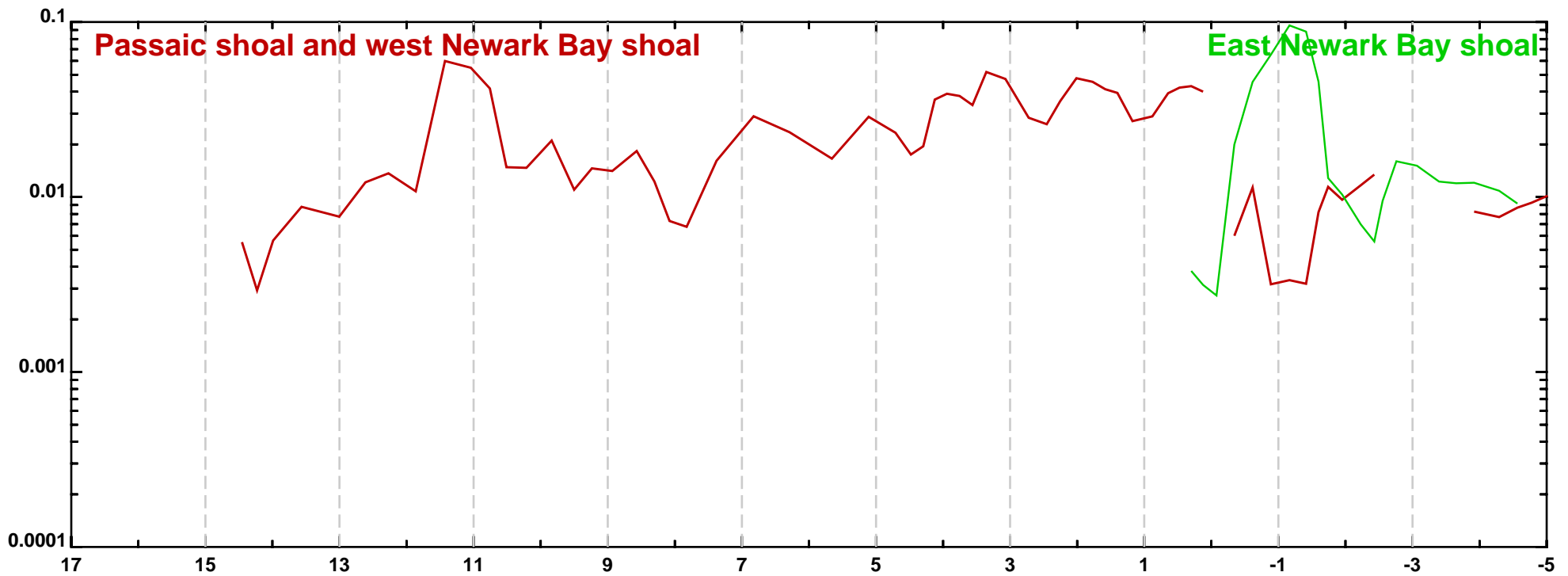
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



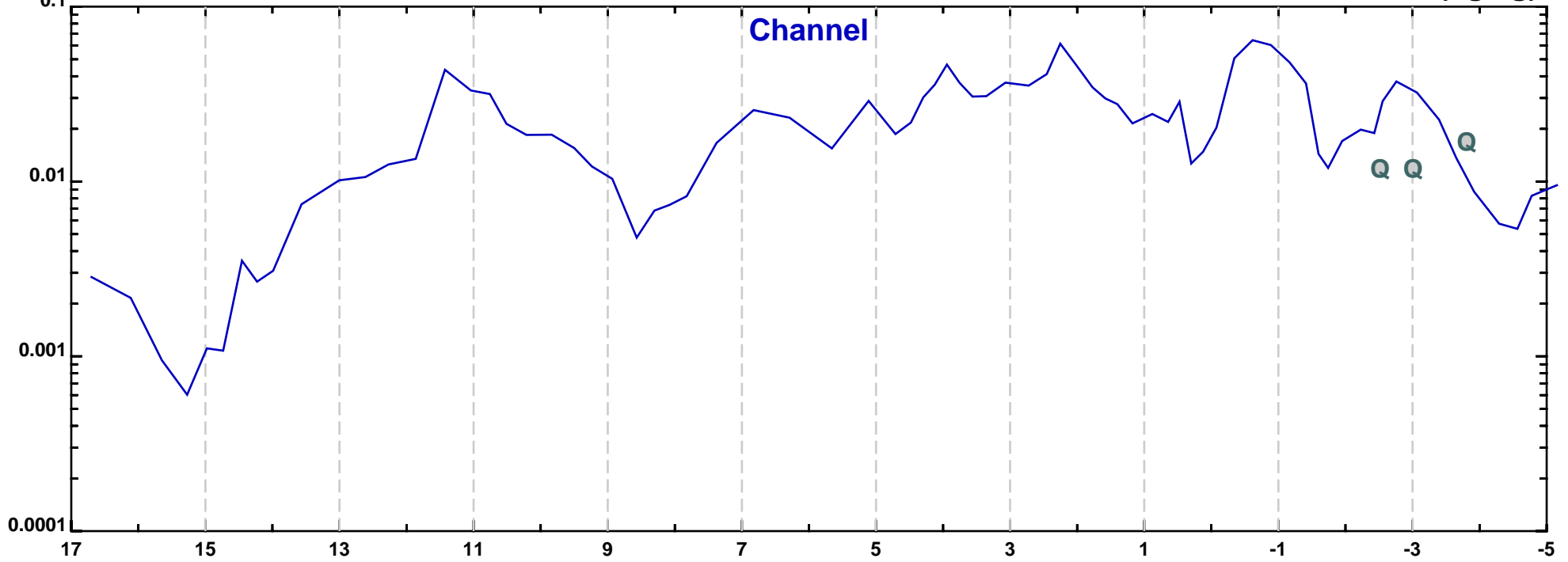
River Mile

Year =1997.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

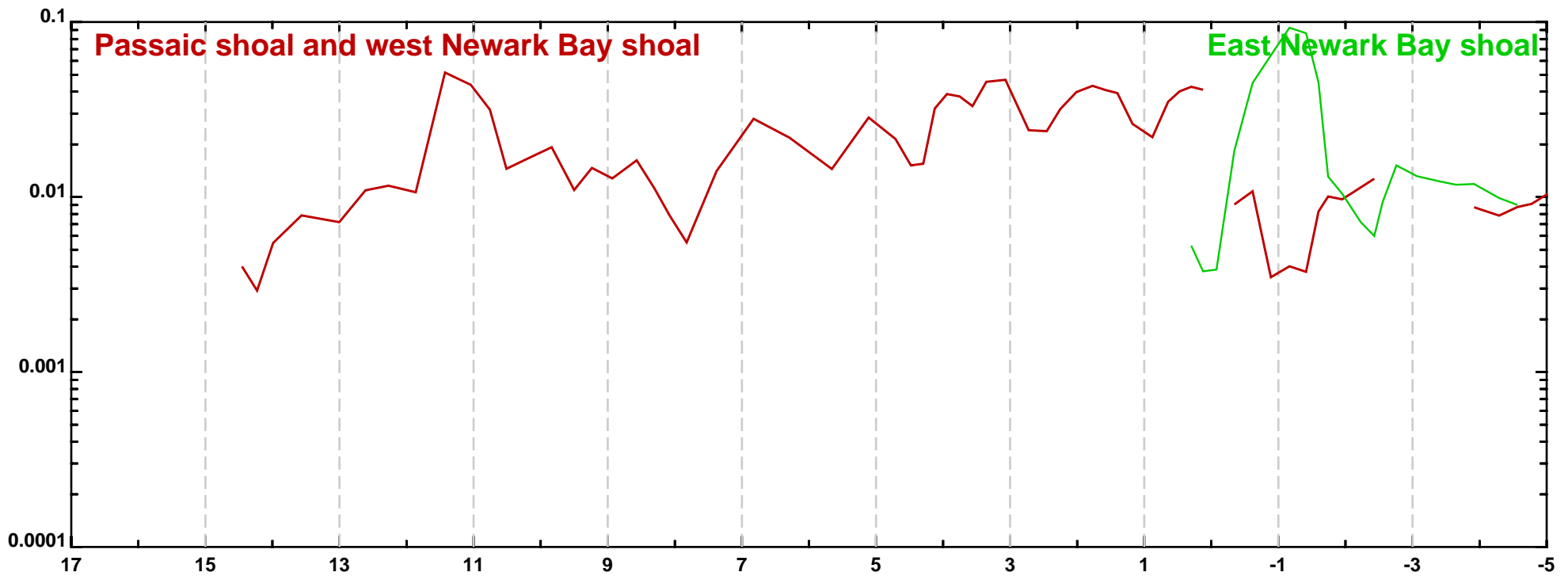
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

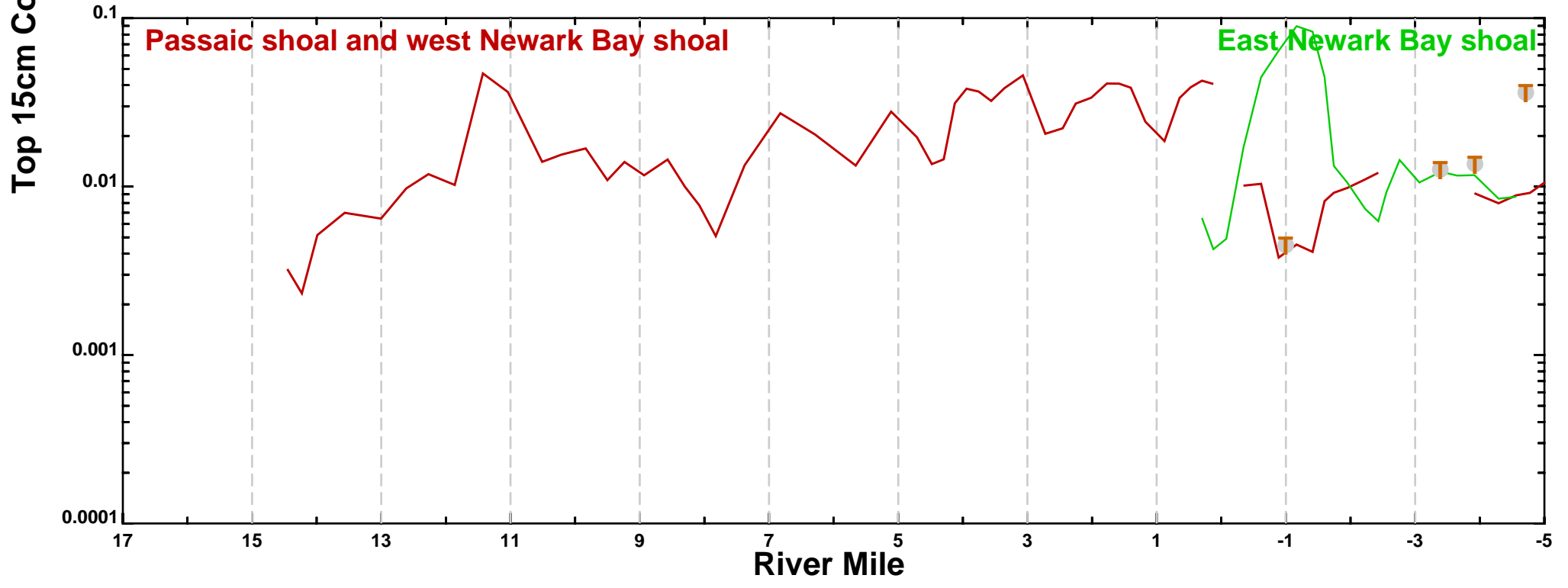
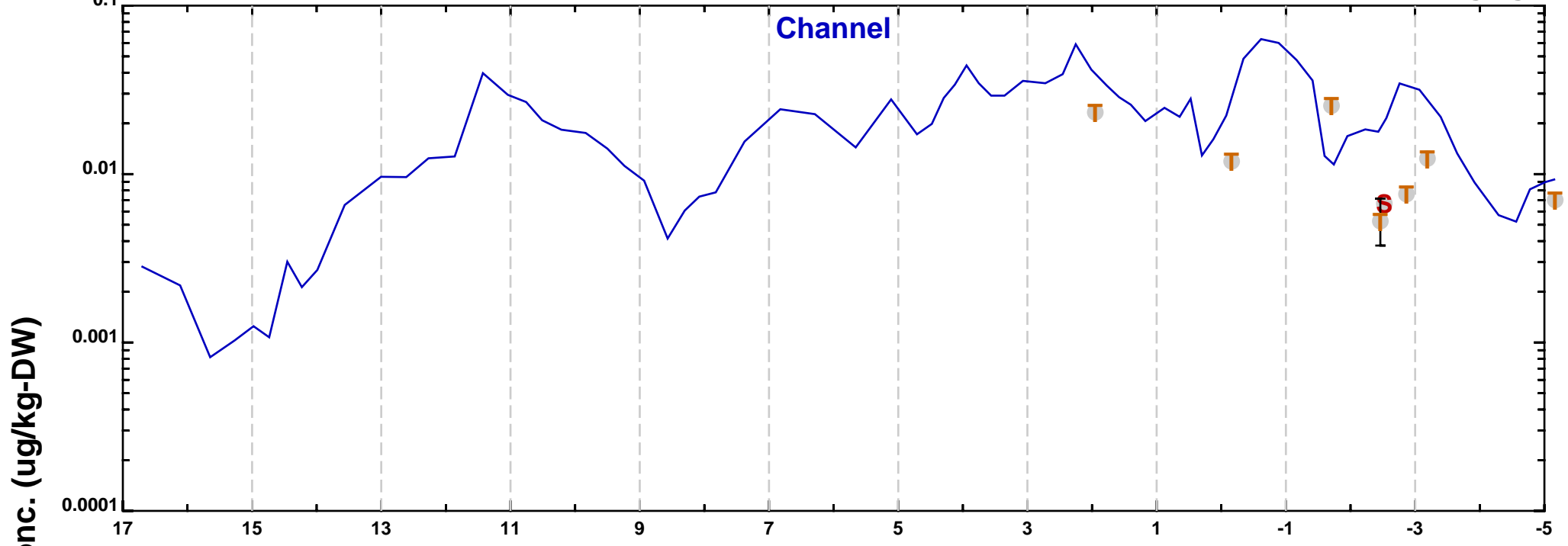
East Newark Bay shoal



River Mile

Year =1998.0

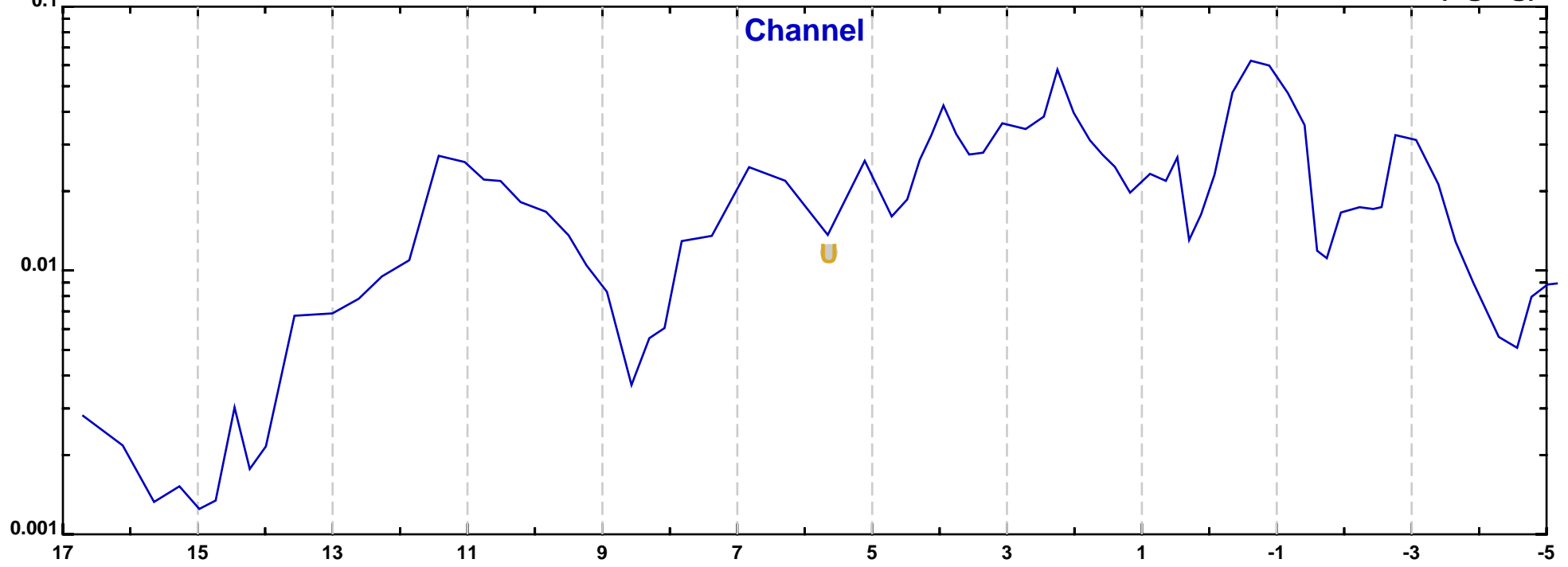
2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



Year = 1999.0

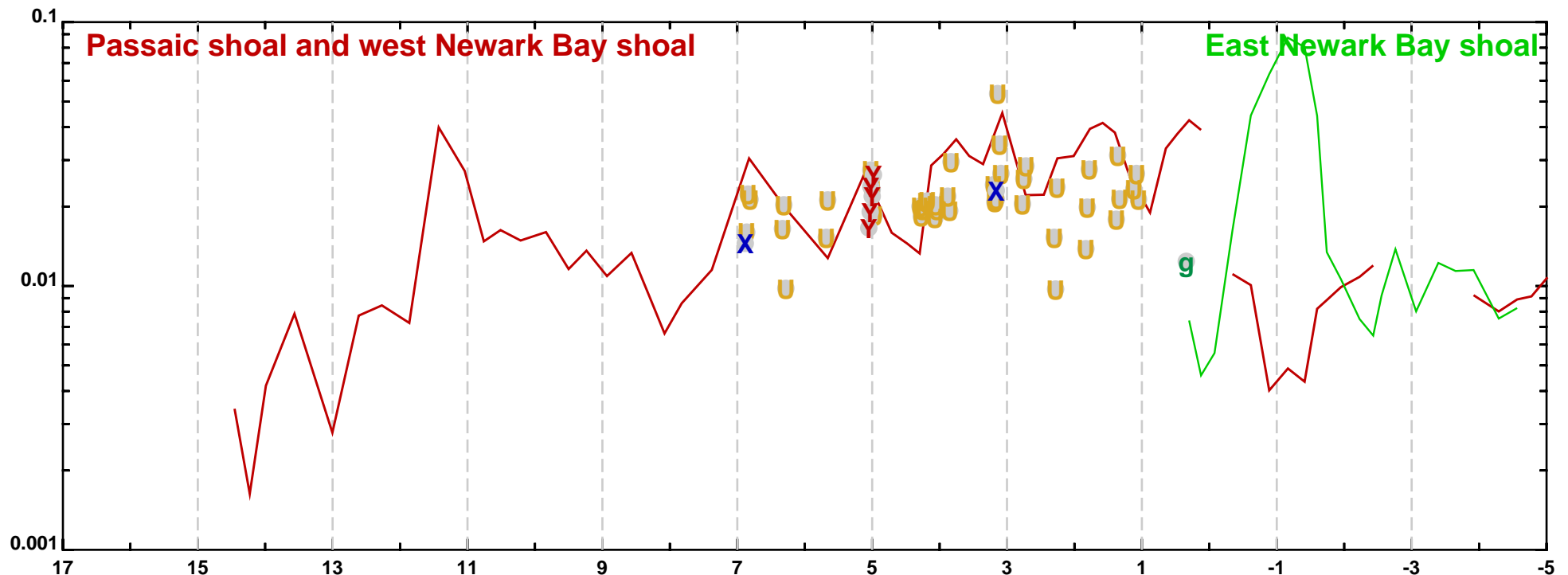
2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

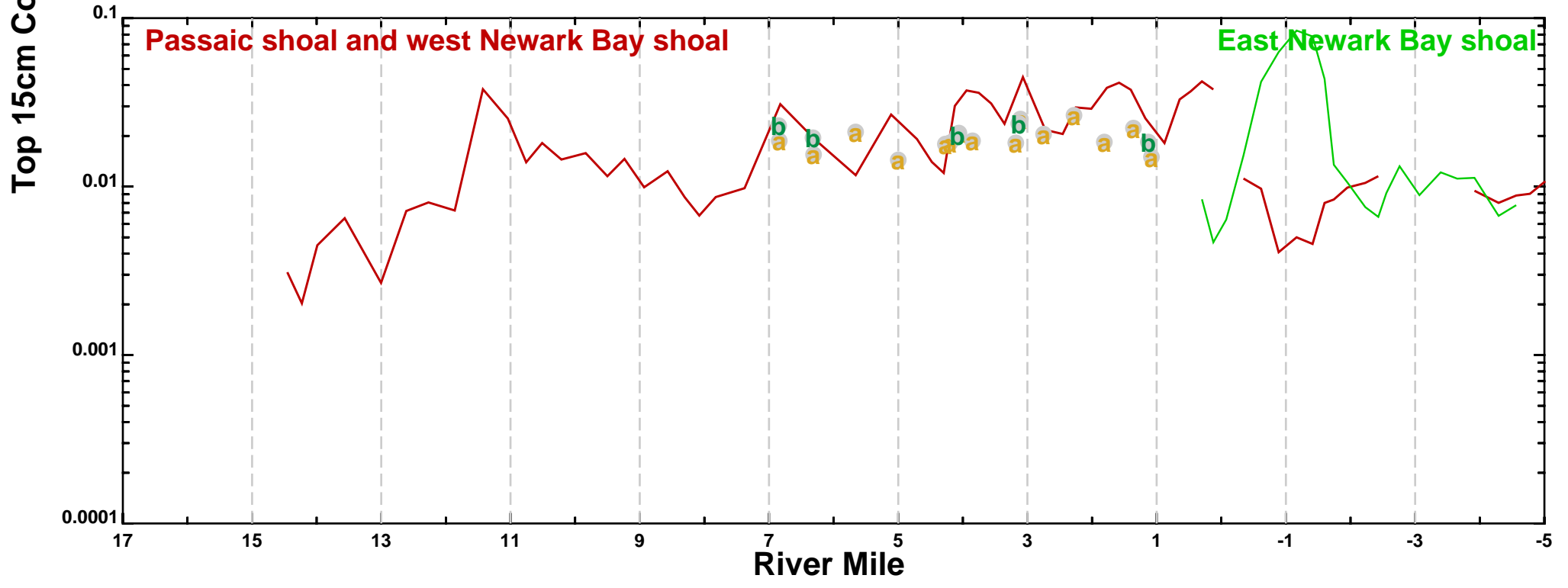
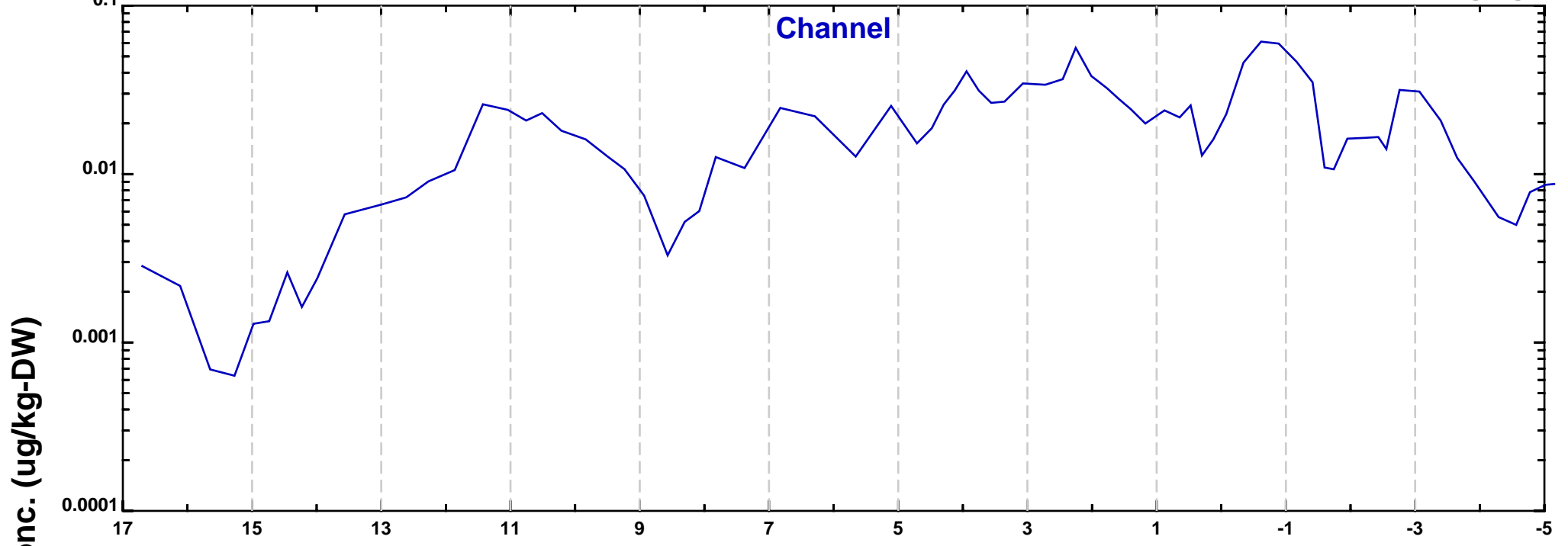
East Newark Bay shoal



River Mile

Year =2000.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

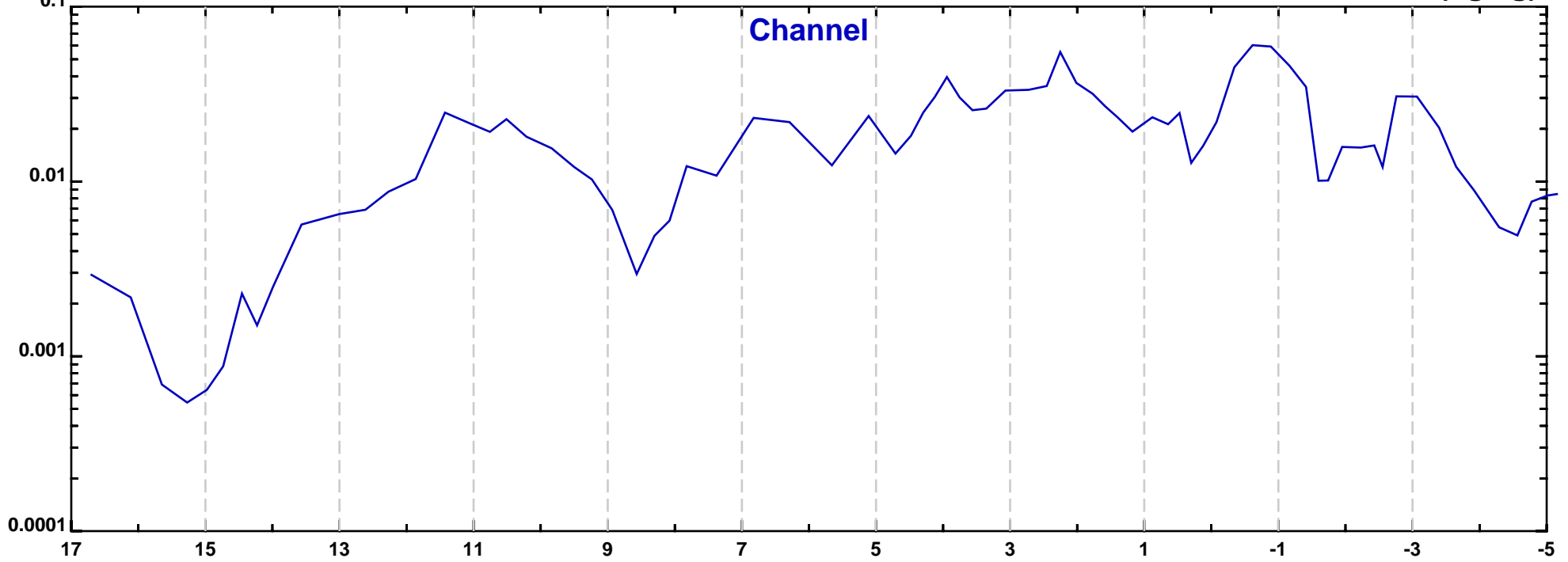


Year =2001.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

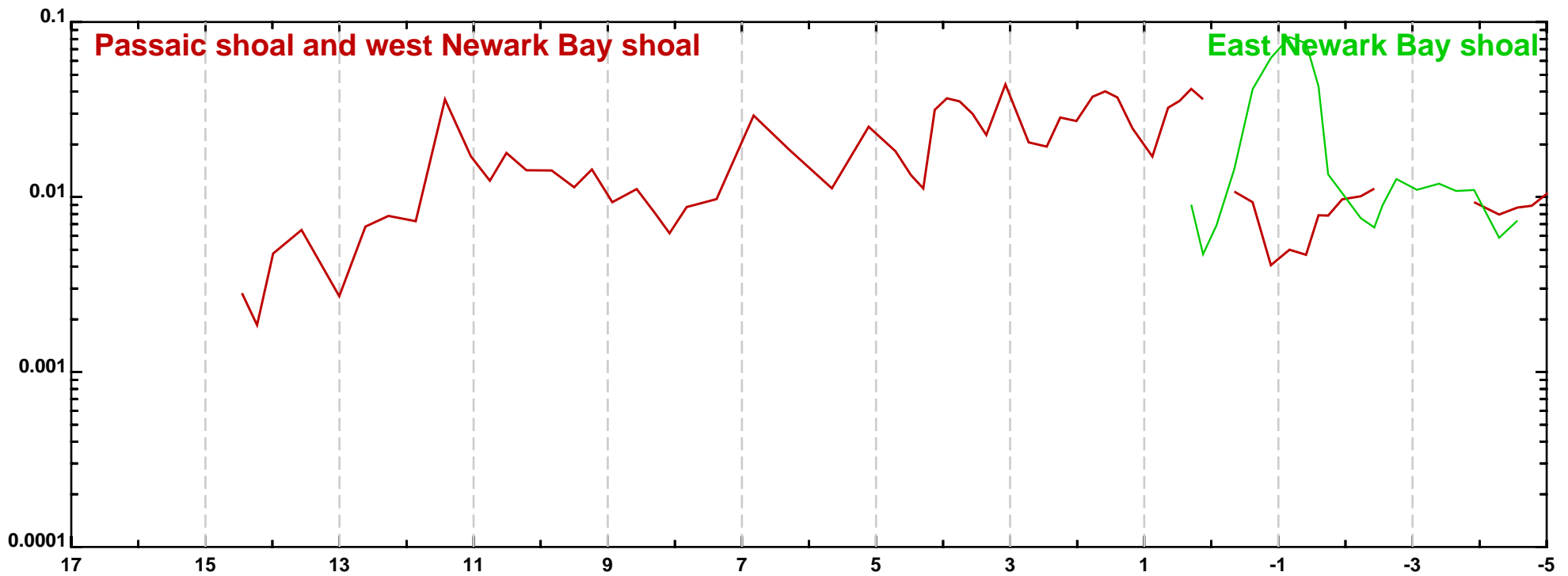
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

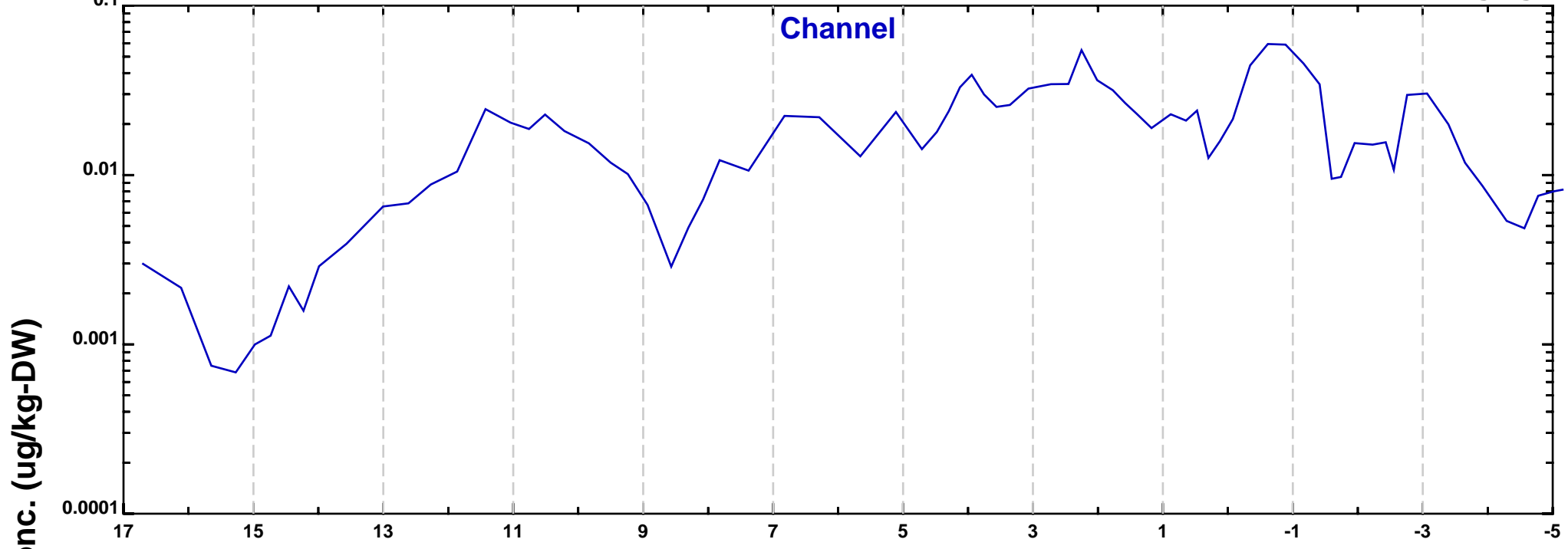


River Mile



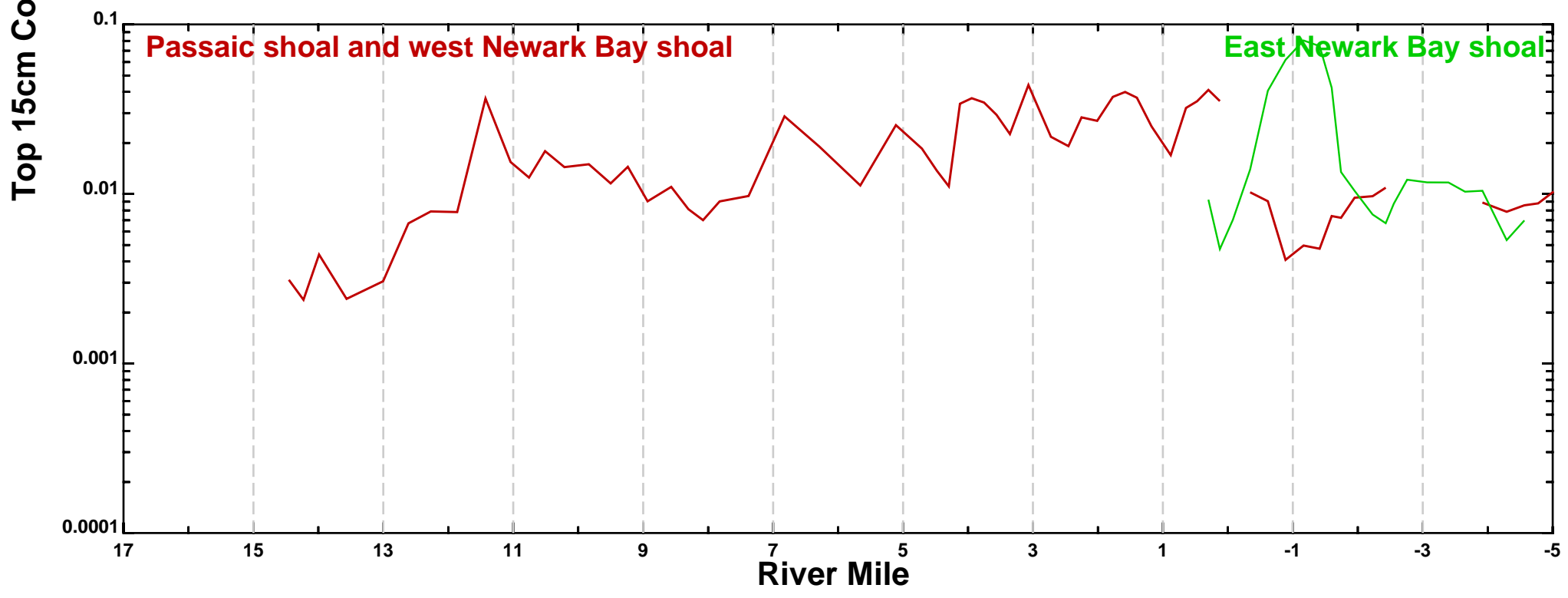
Year =2002.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



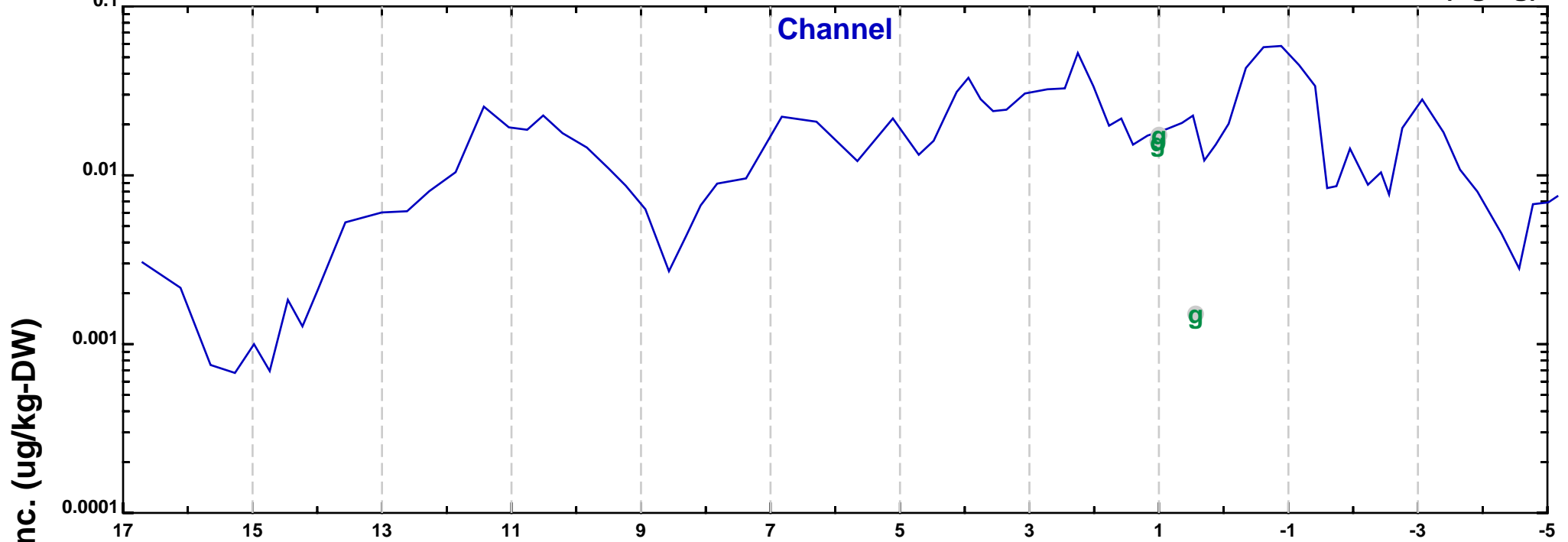
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



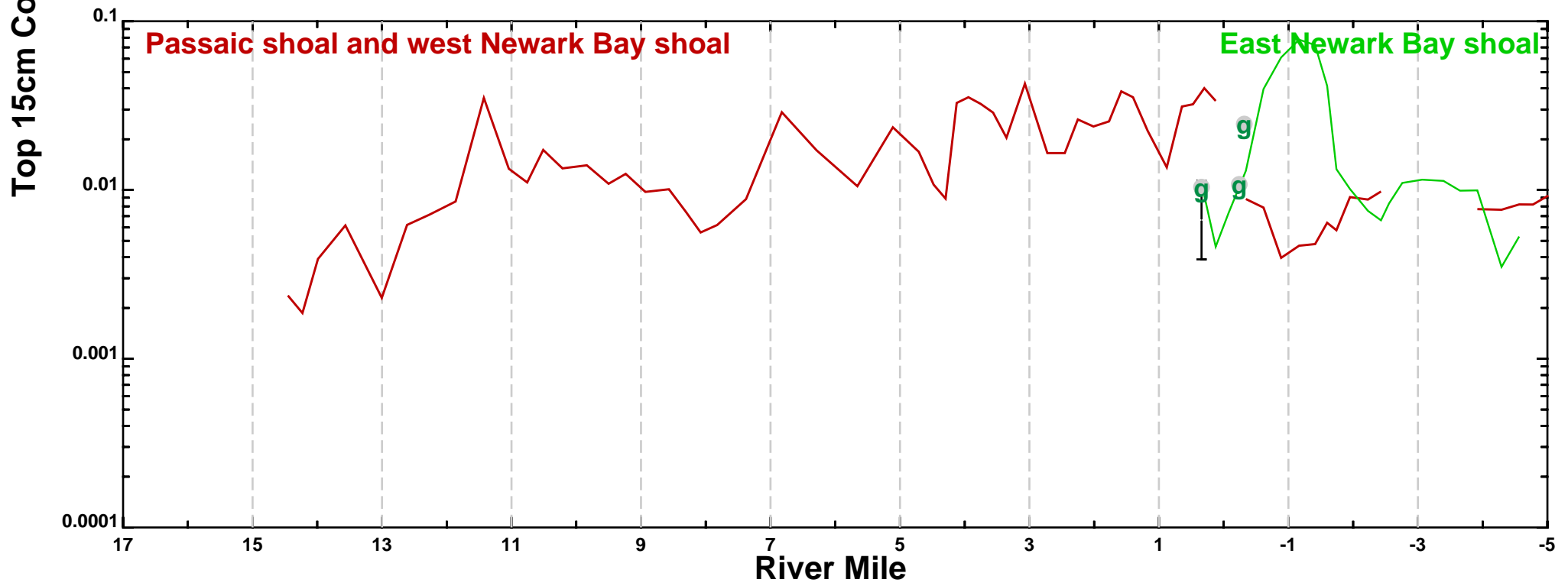
Year =2003.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



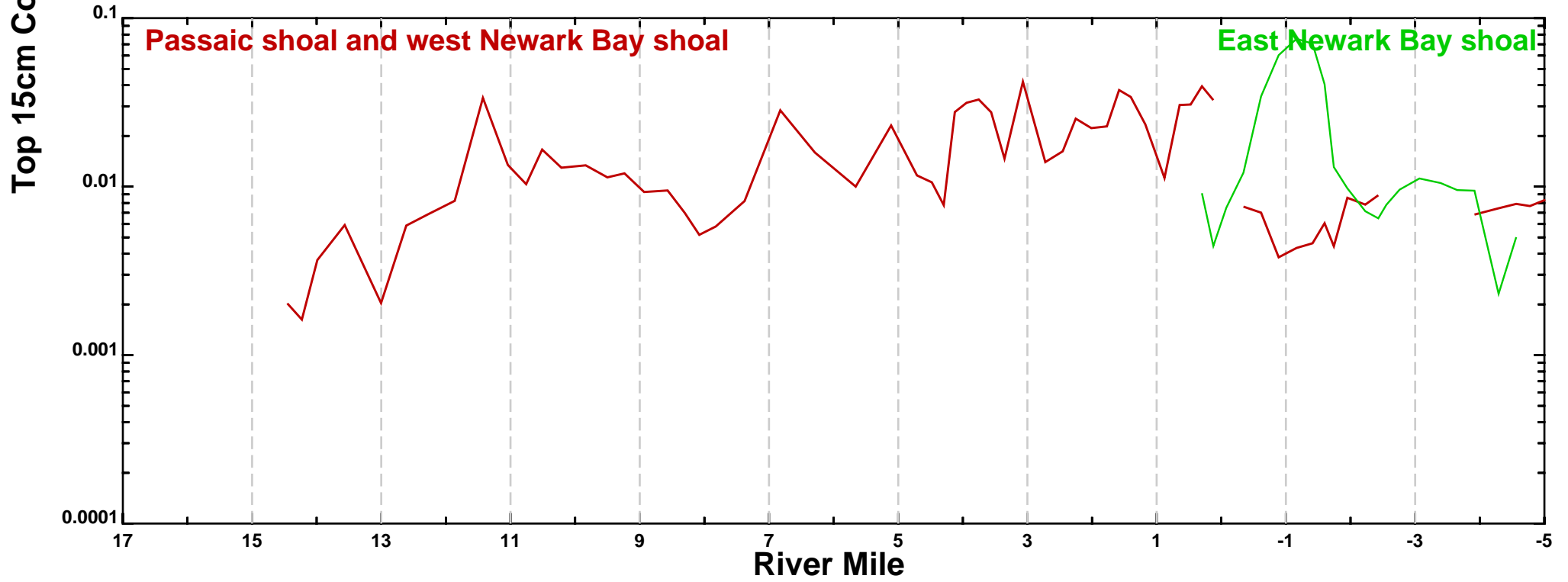
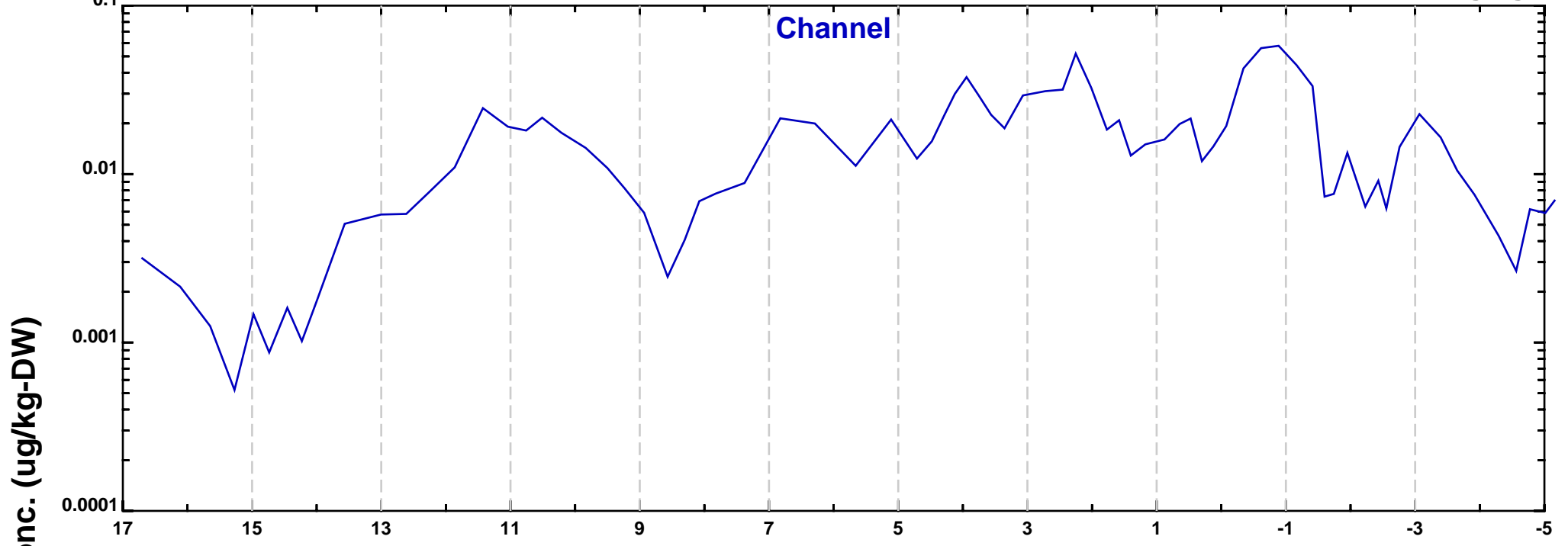
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2004.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



Year =2005.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

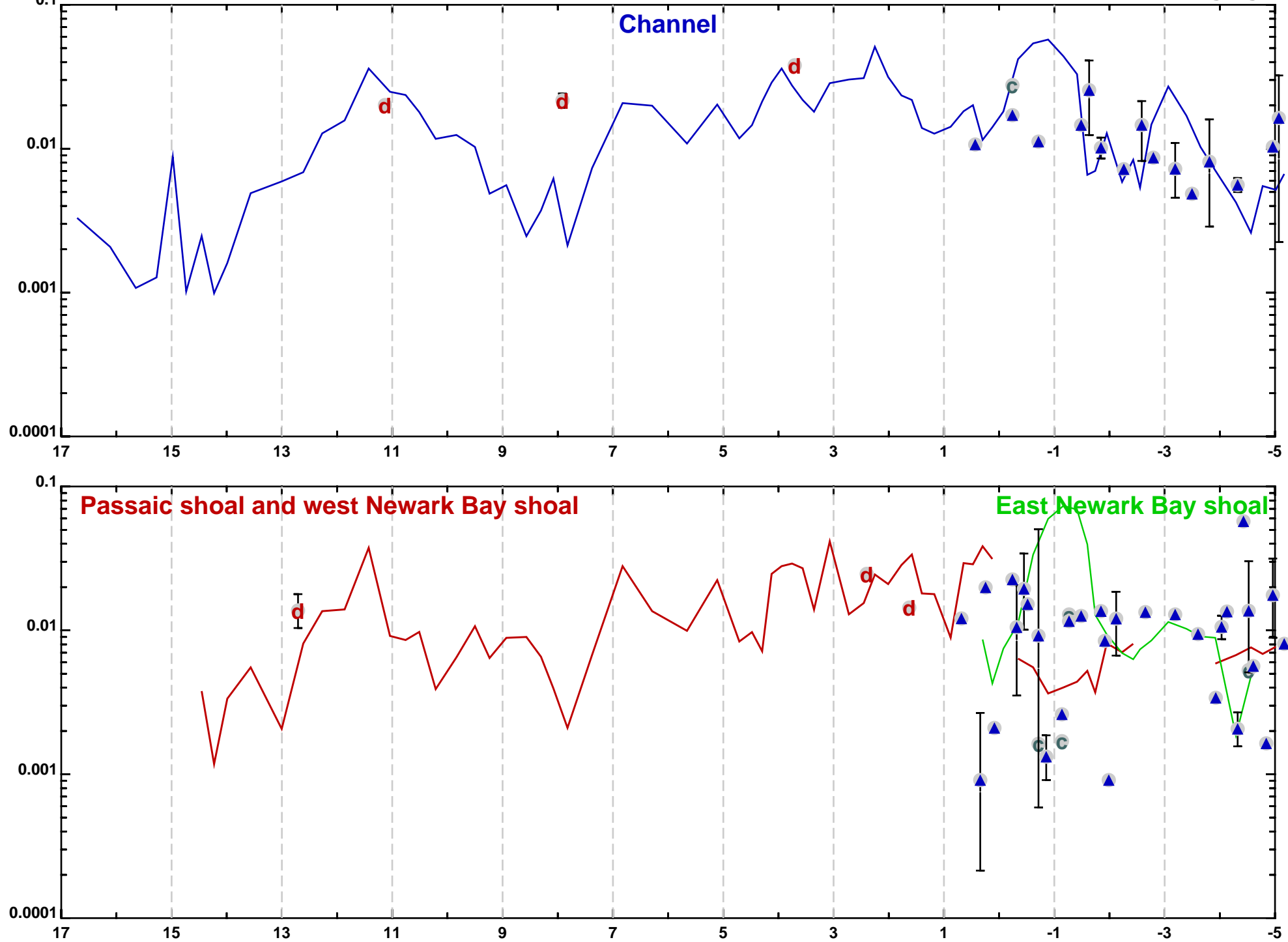
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

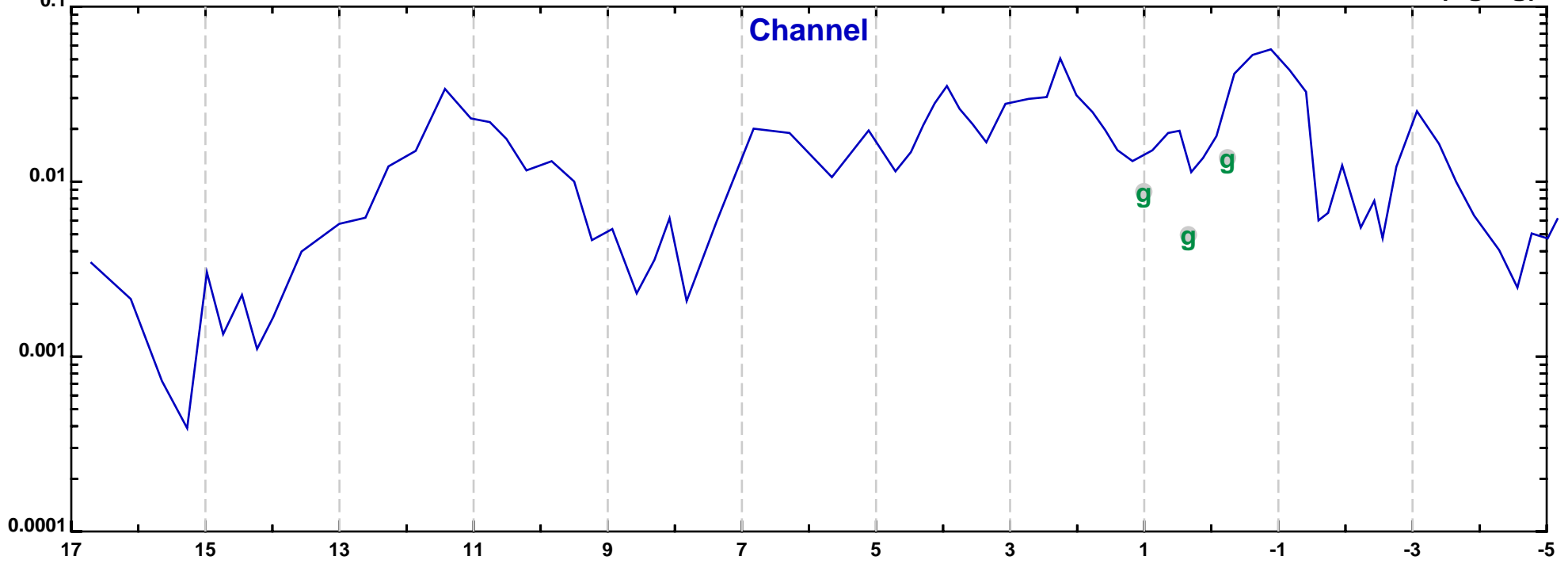


Year =2006.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

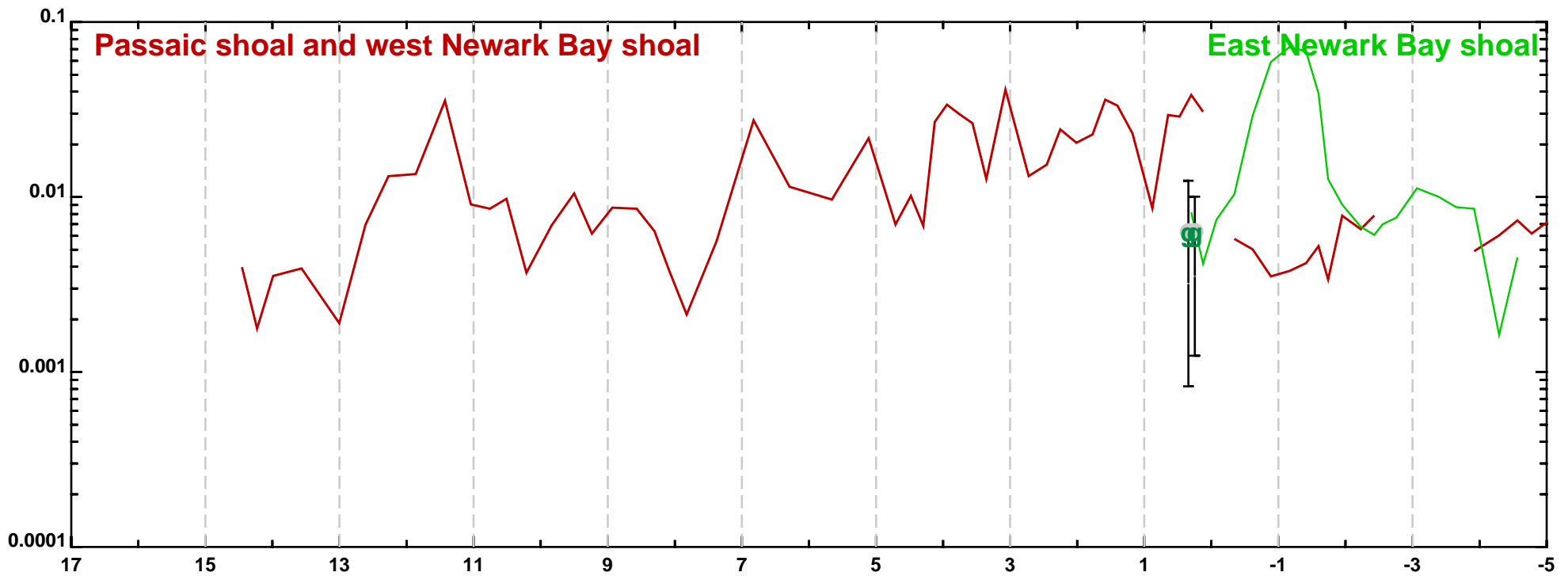
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

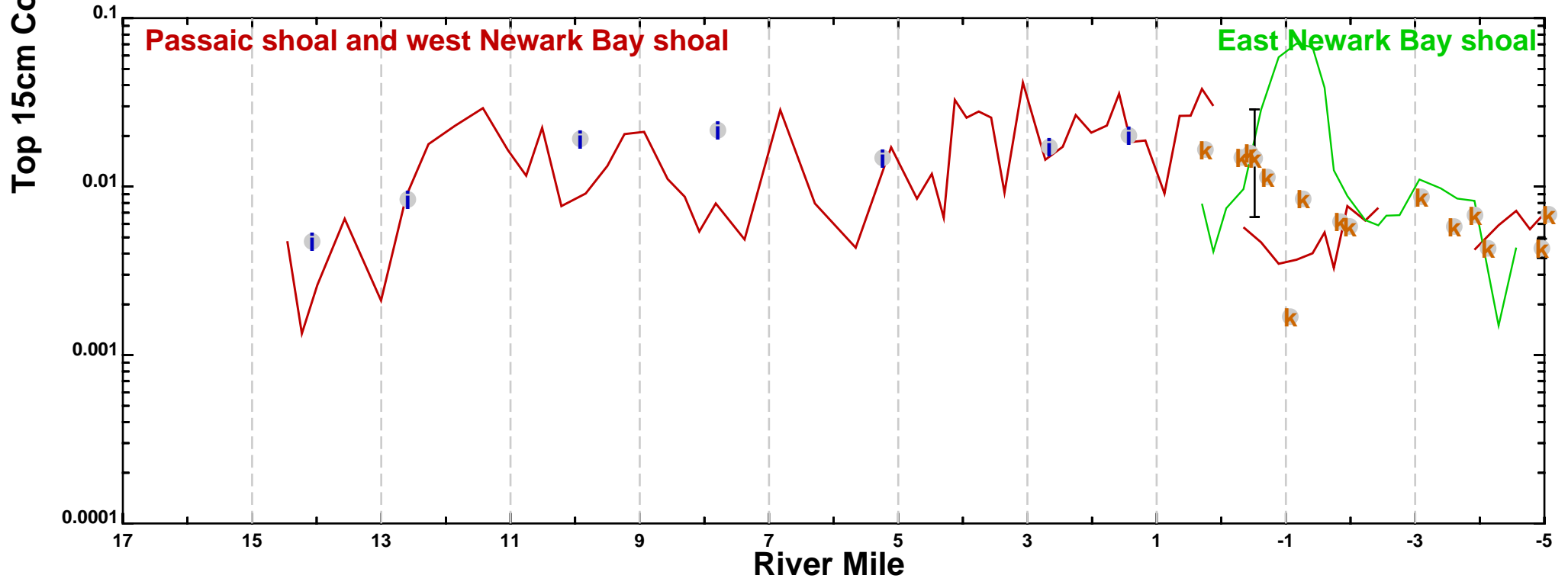
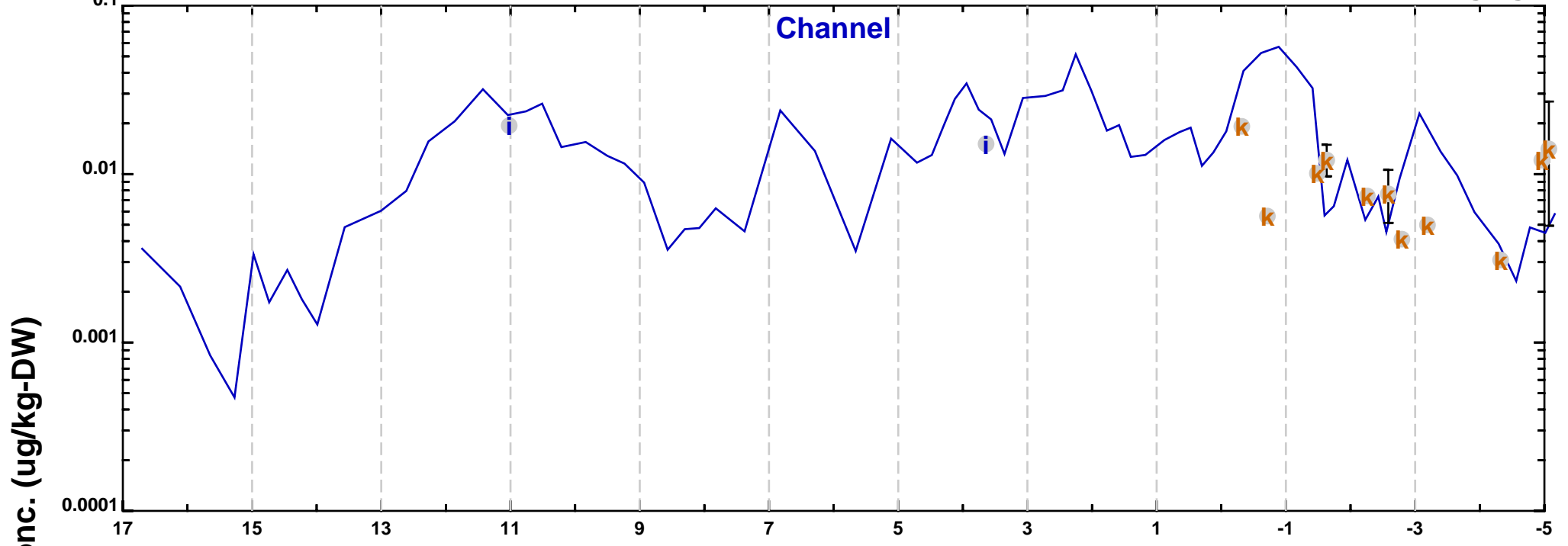
East Newark Bay shoal



River Mile

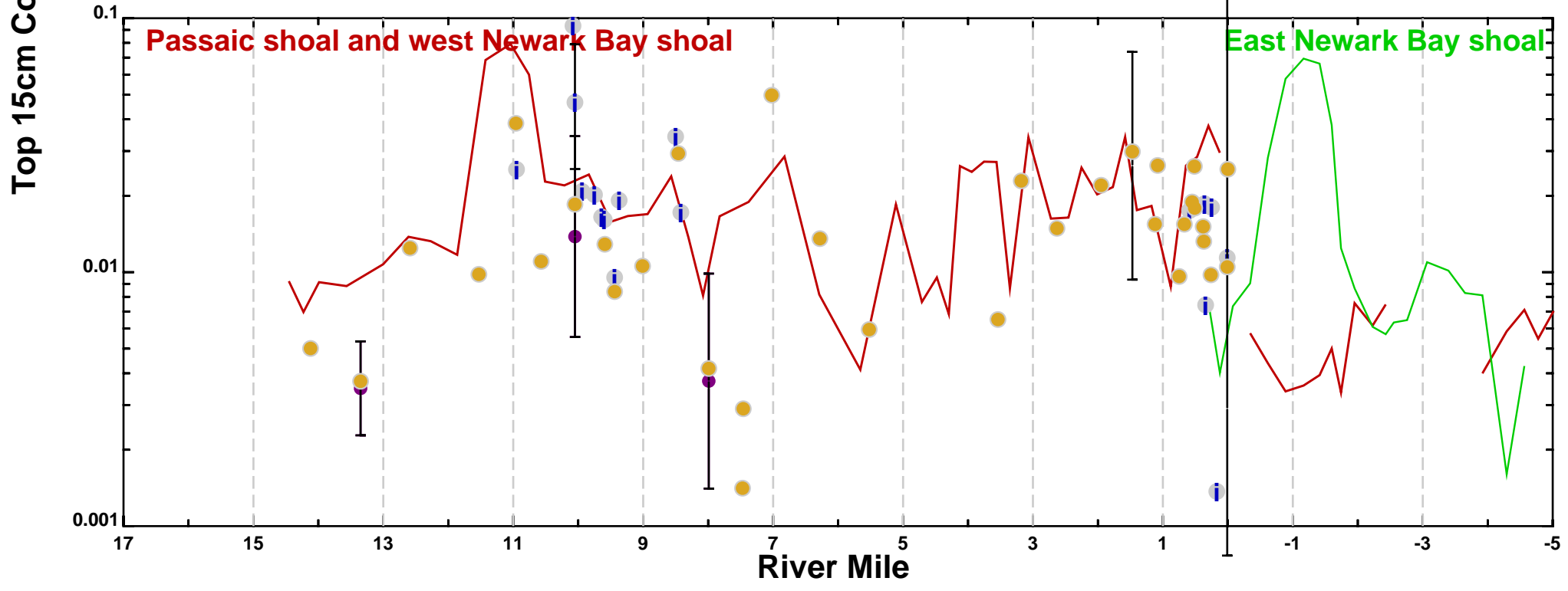
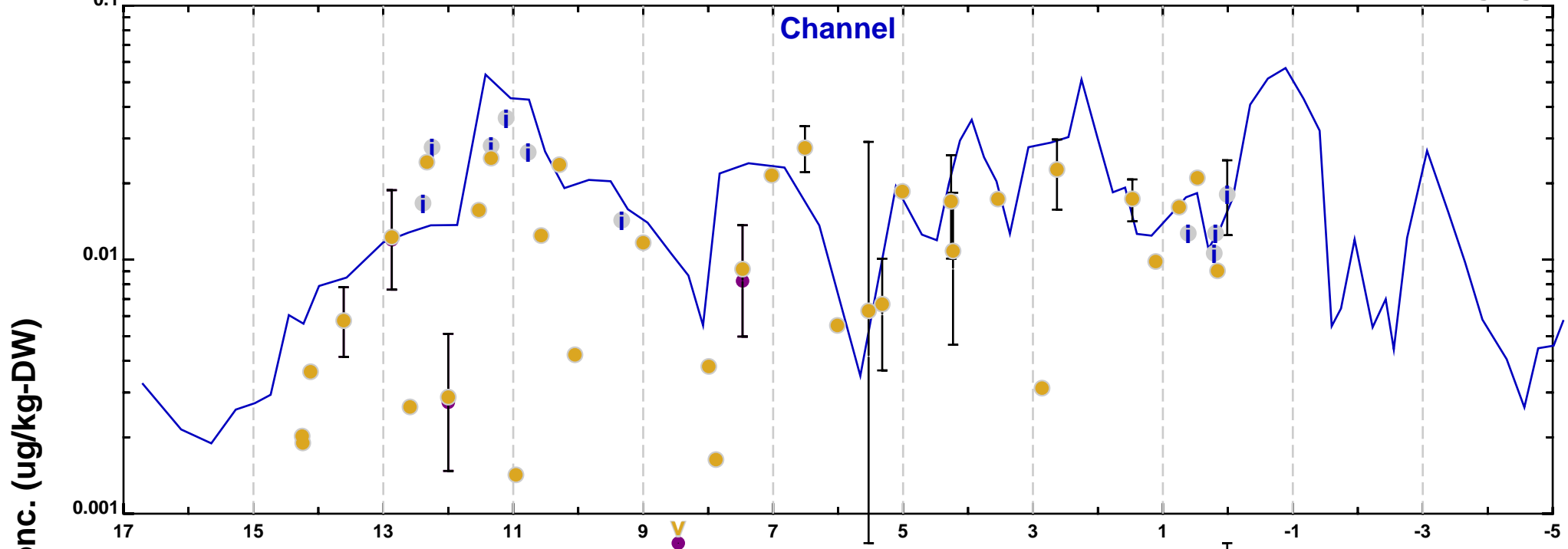
Year =2007.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



Year =2008.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

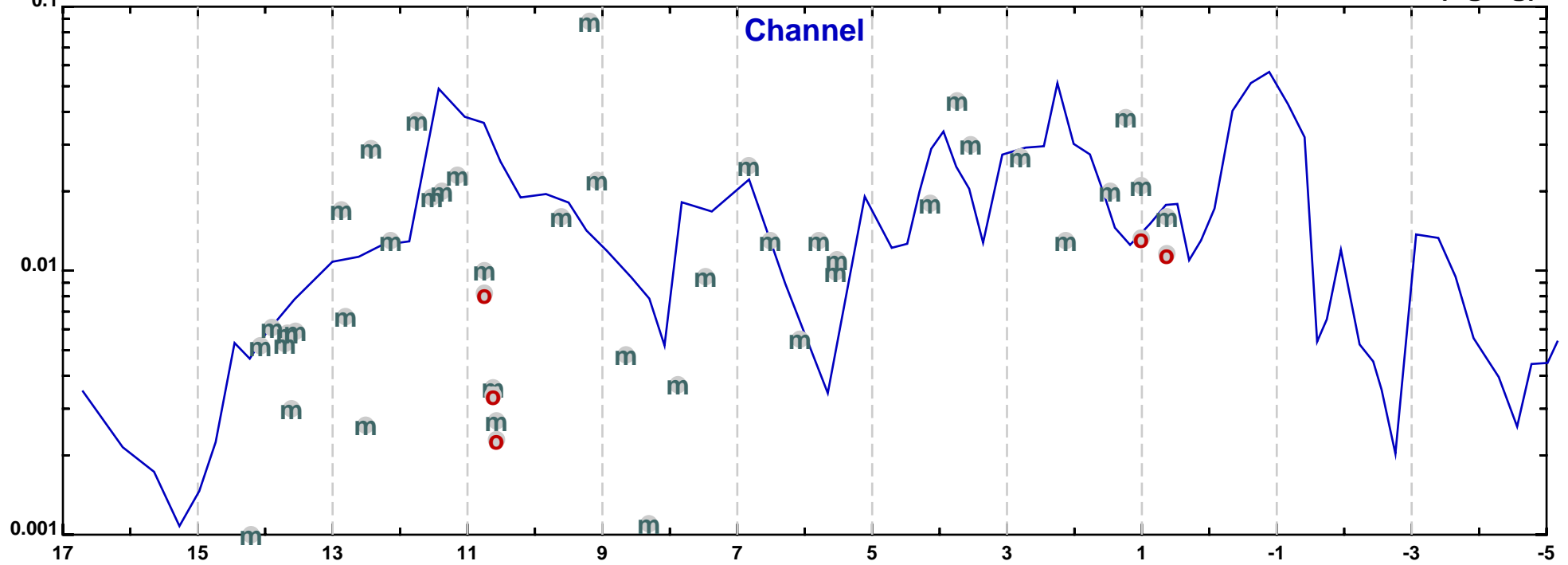


Year =2009.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

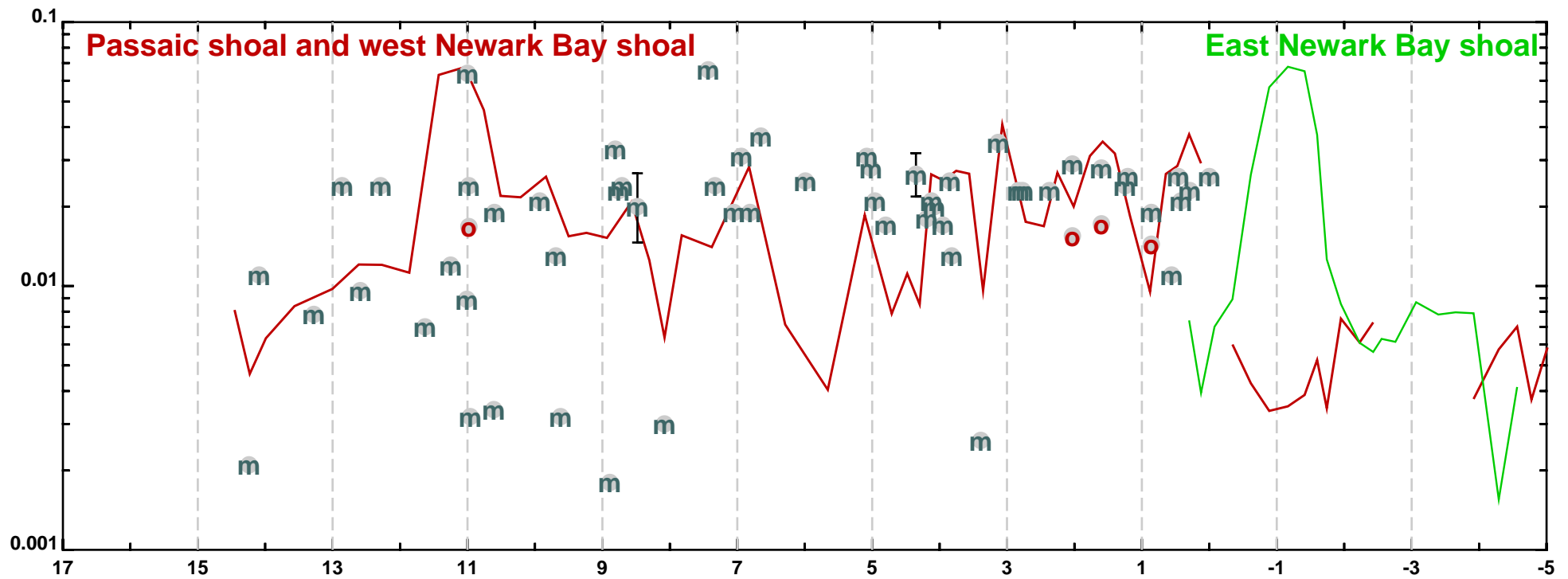
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

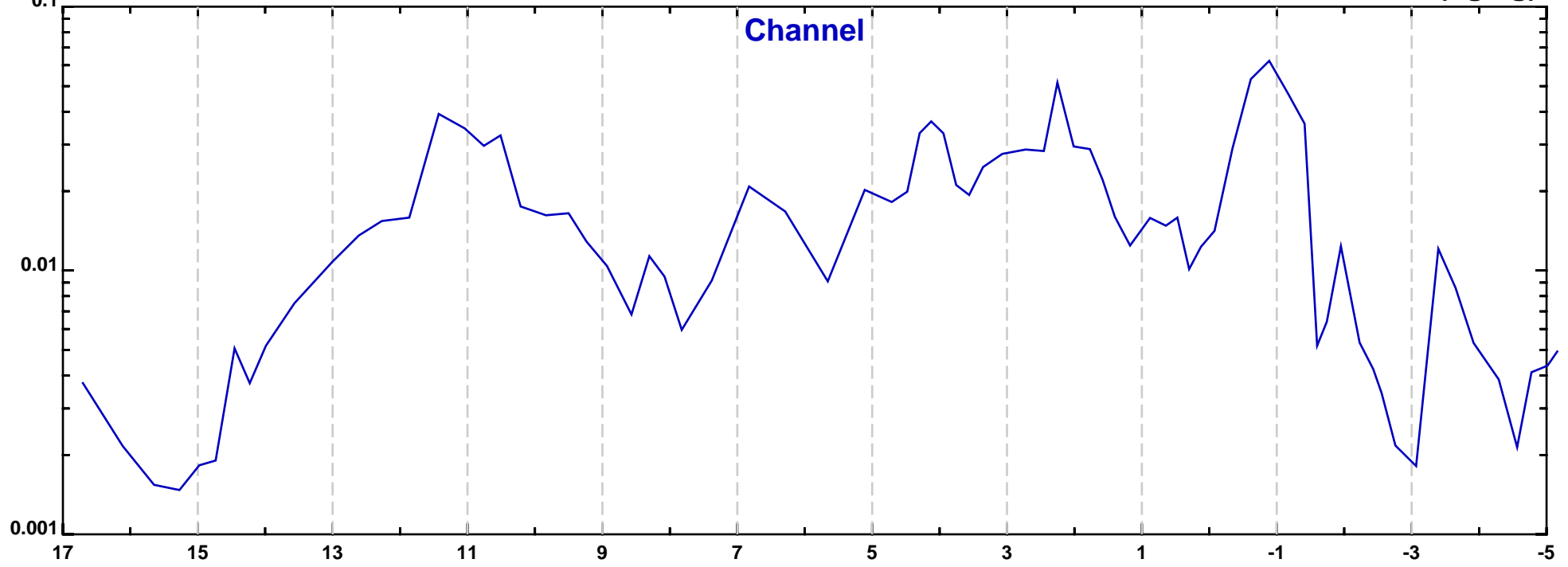


Year =2010.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

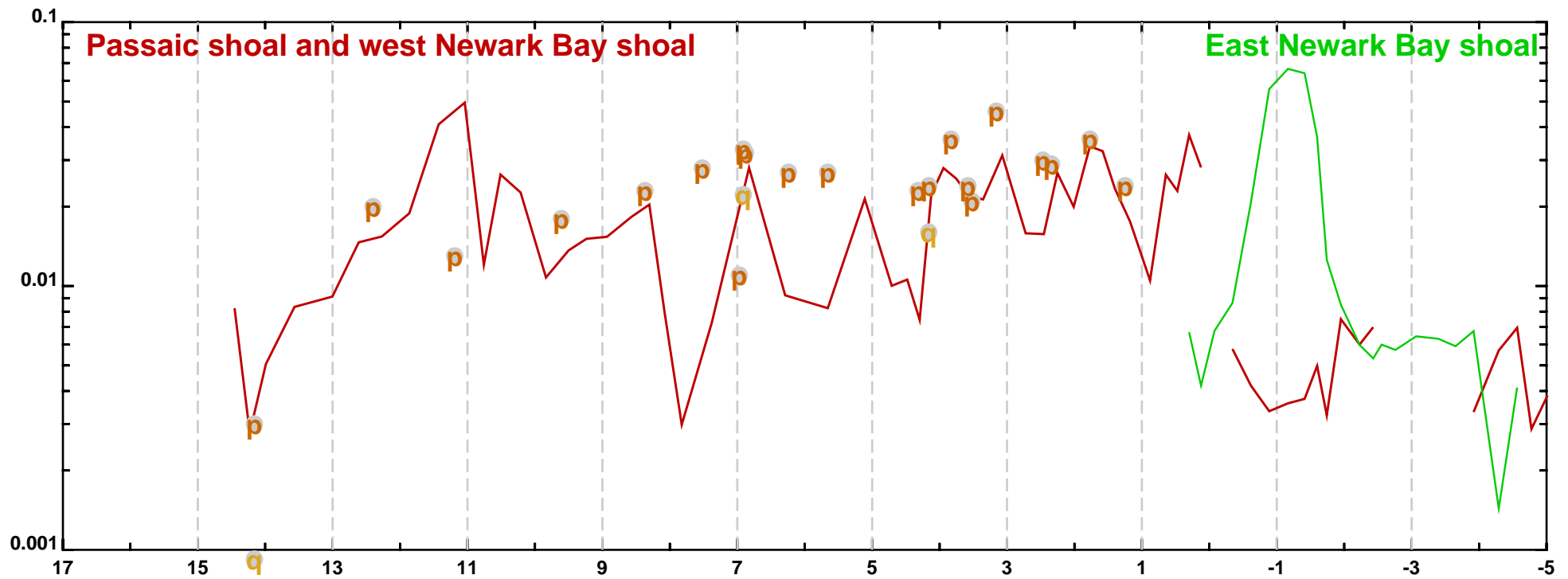
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



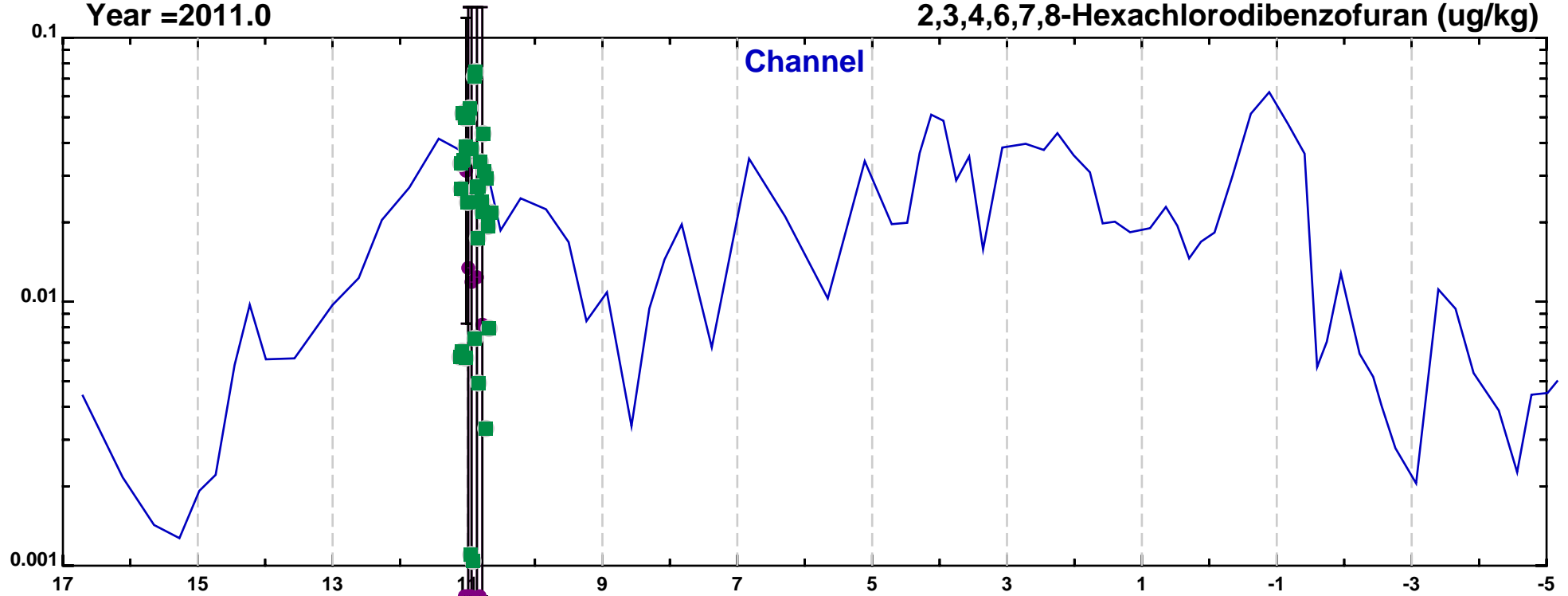
River Mile

Year = 2011.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

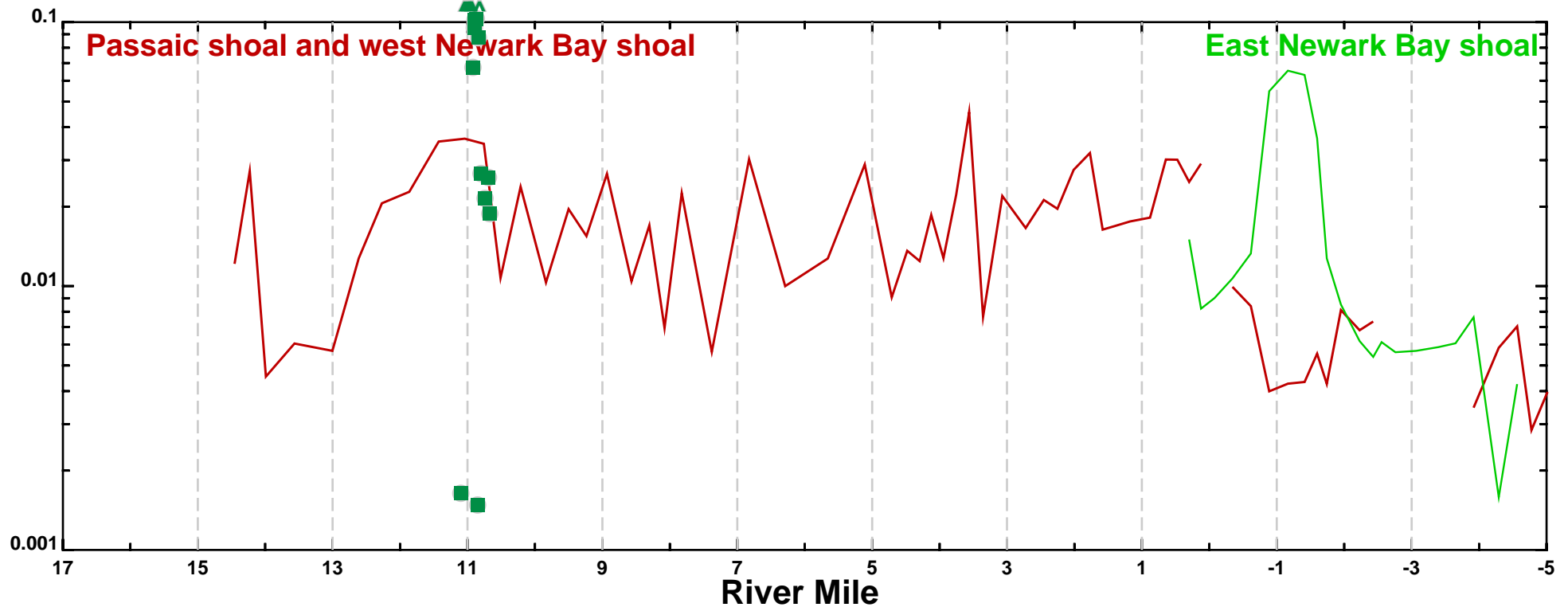
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2012.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)

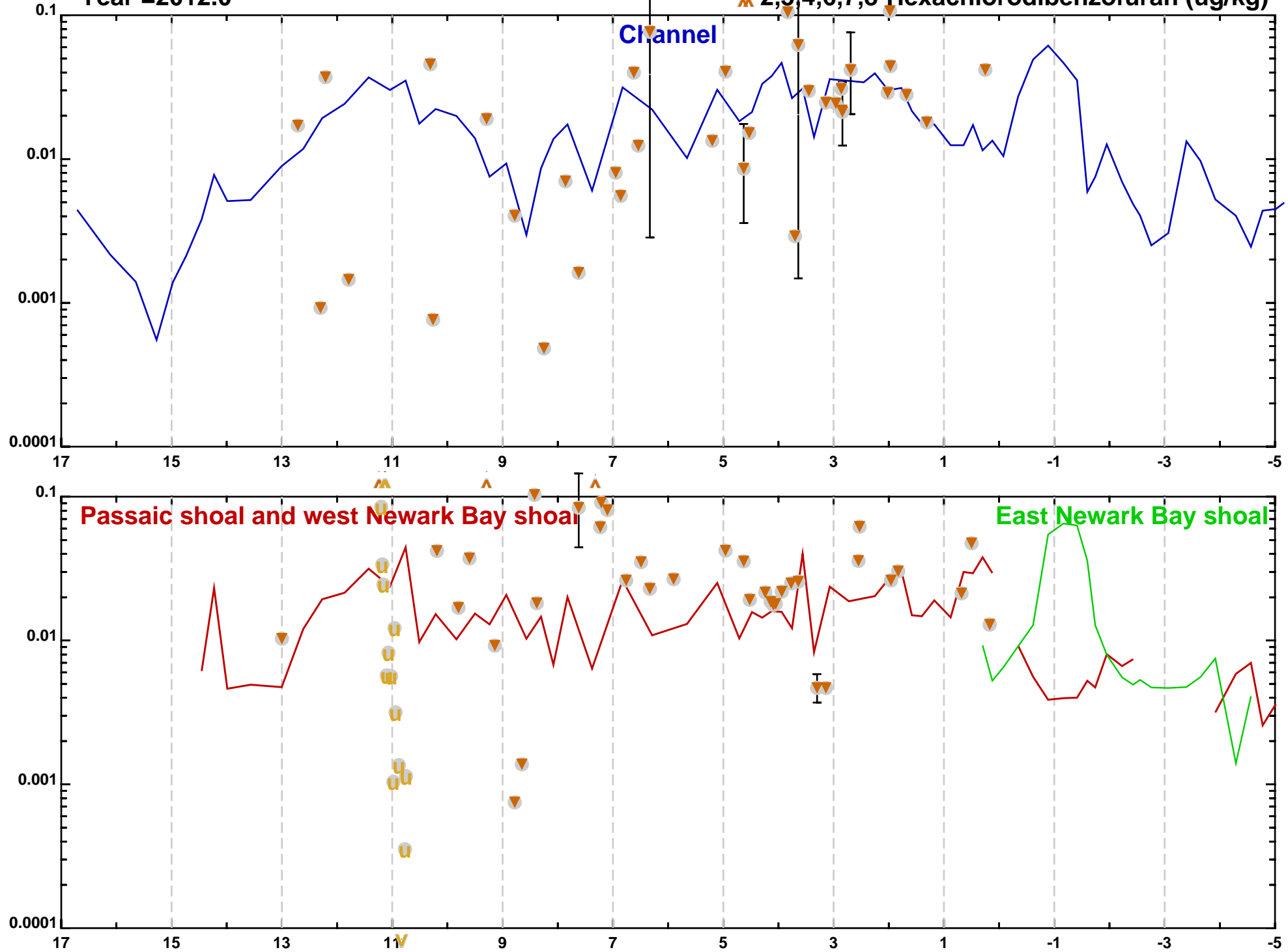
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

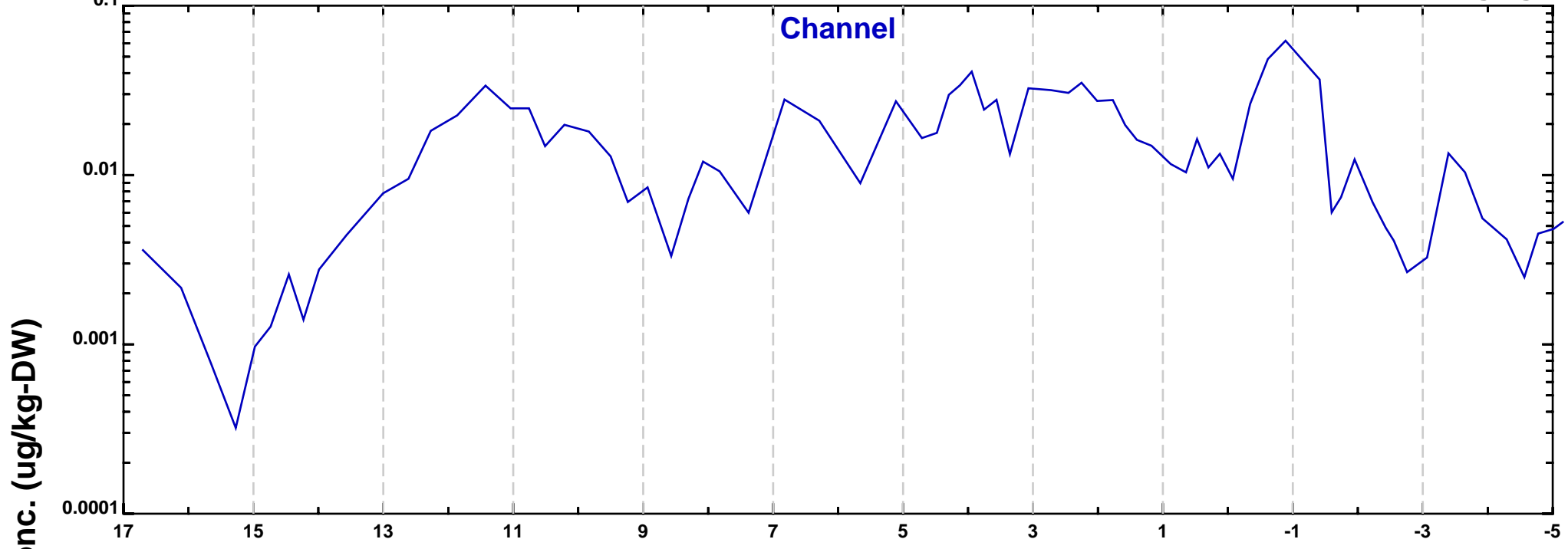
East Newark Bay shoal

River Mile



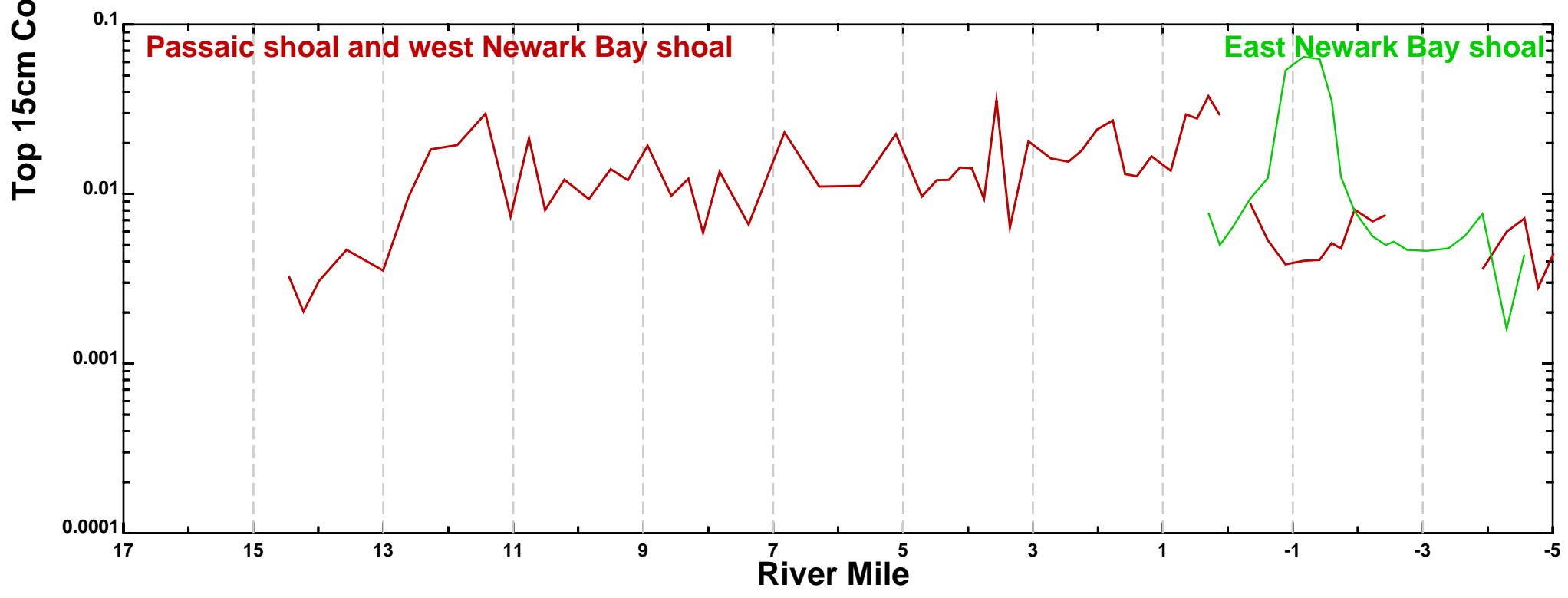
Year =2013.0

2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



**INITIAL CONDITIONS**

**1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)**

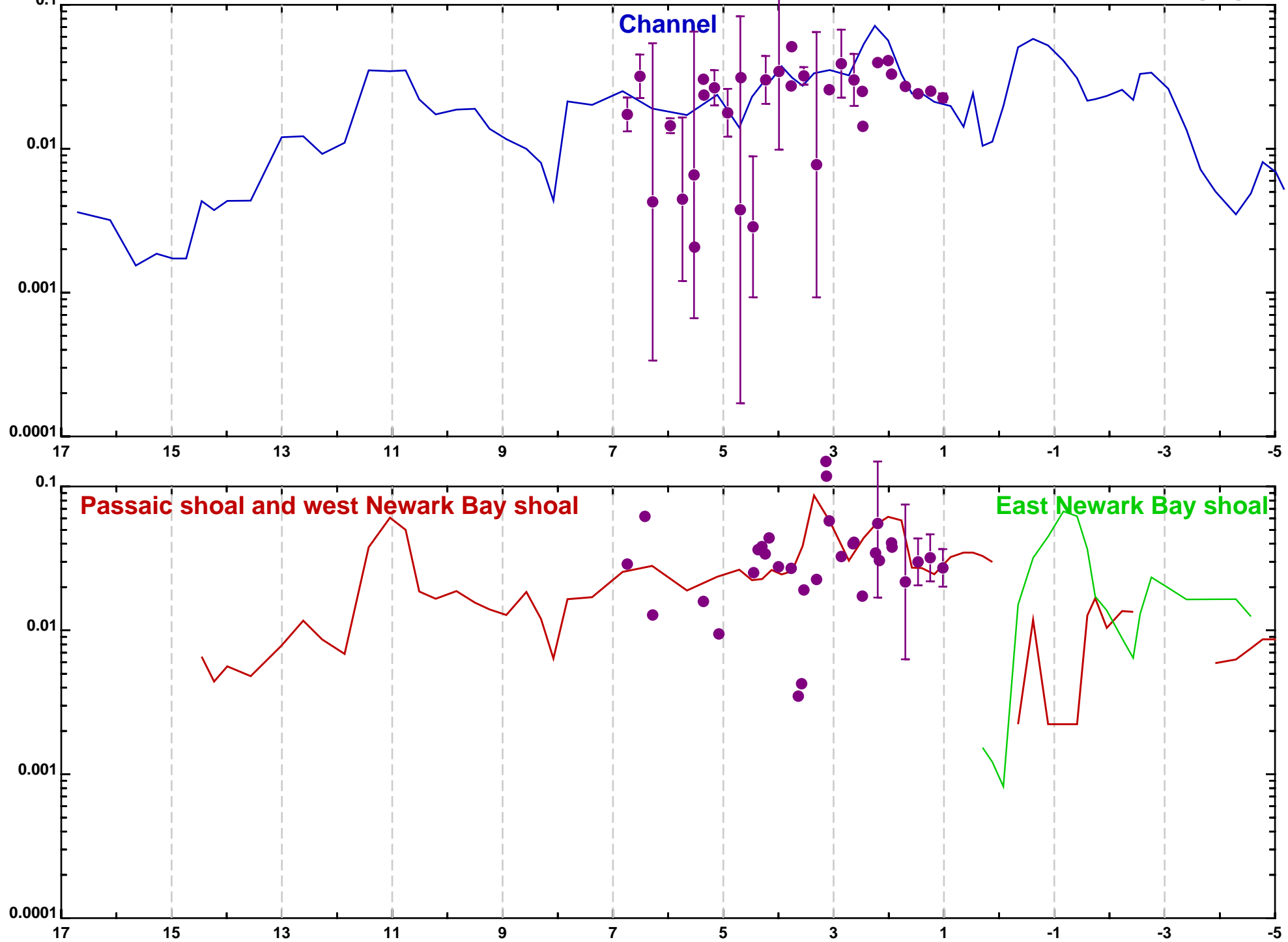
**Top 15cm Conc. (ug/kg-DW)**

**Channel**

**Passaic shoal and west Newark Bay shoal**

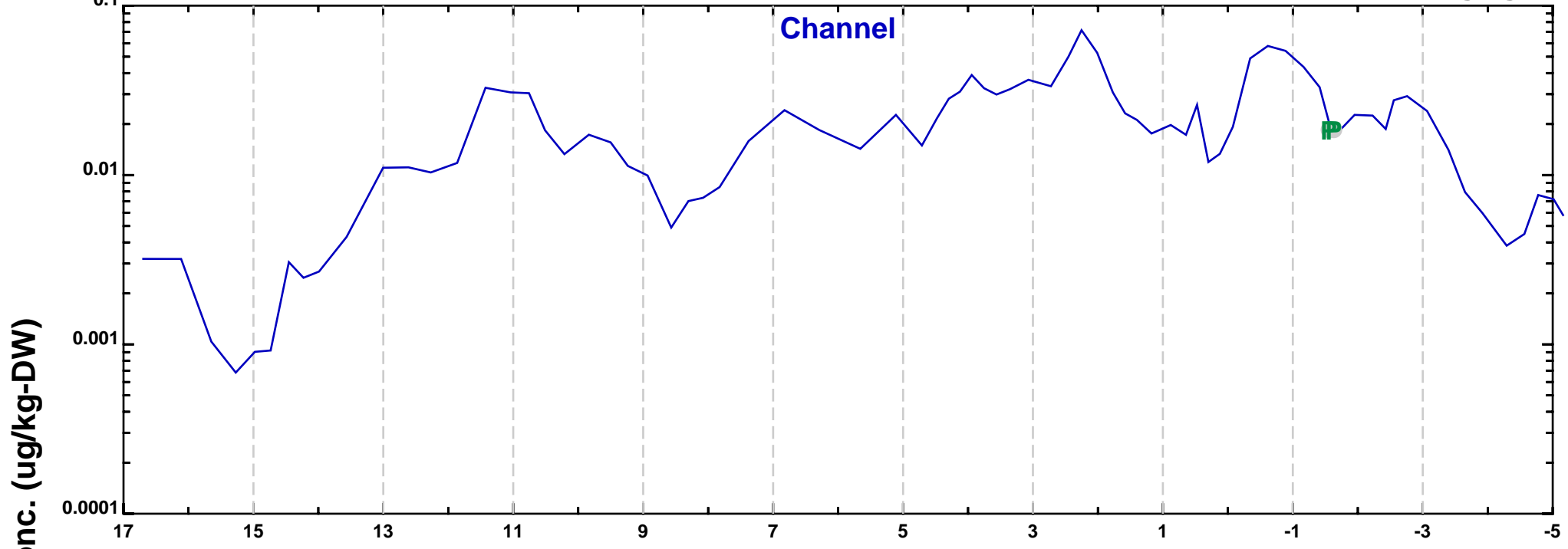
**East Newark Bay shoal**

**River Mile**



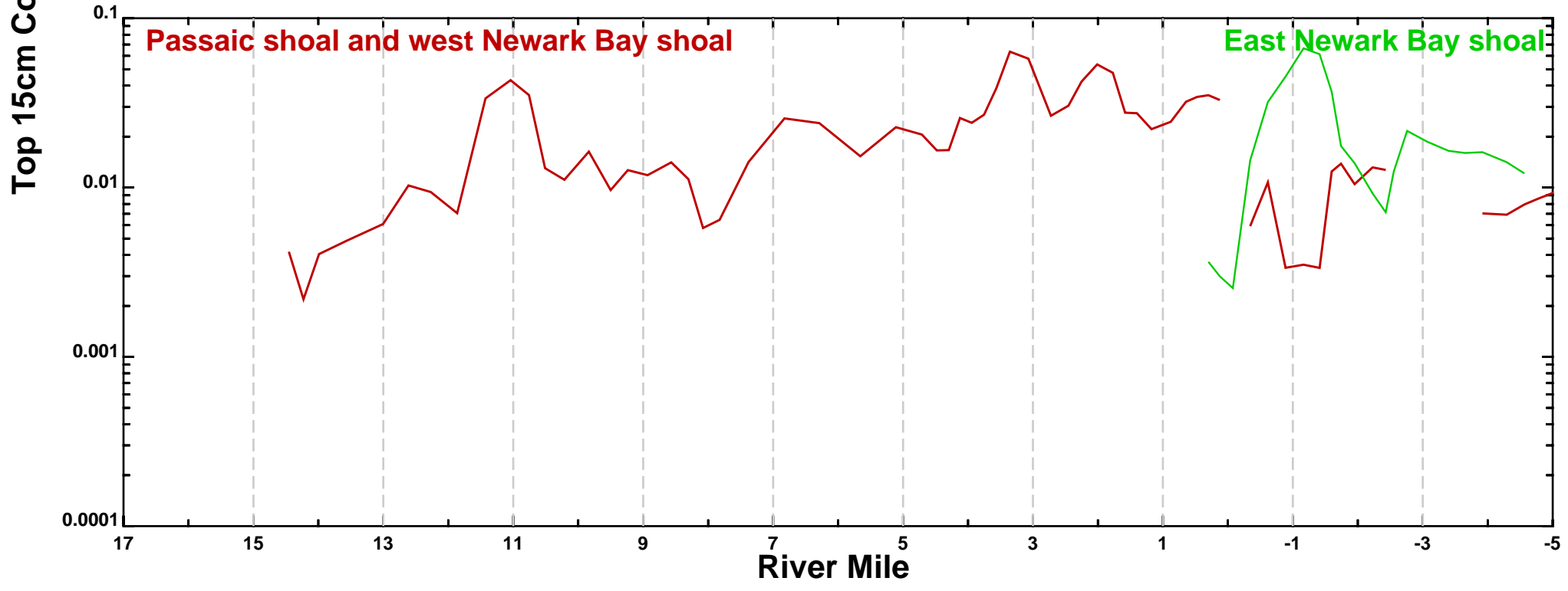
Year = 1996.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



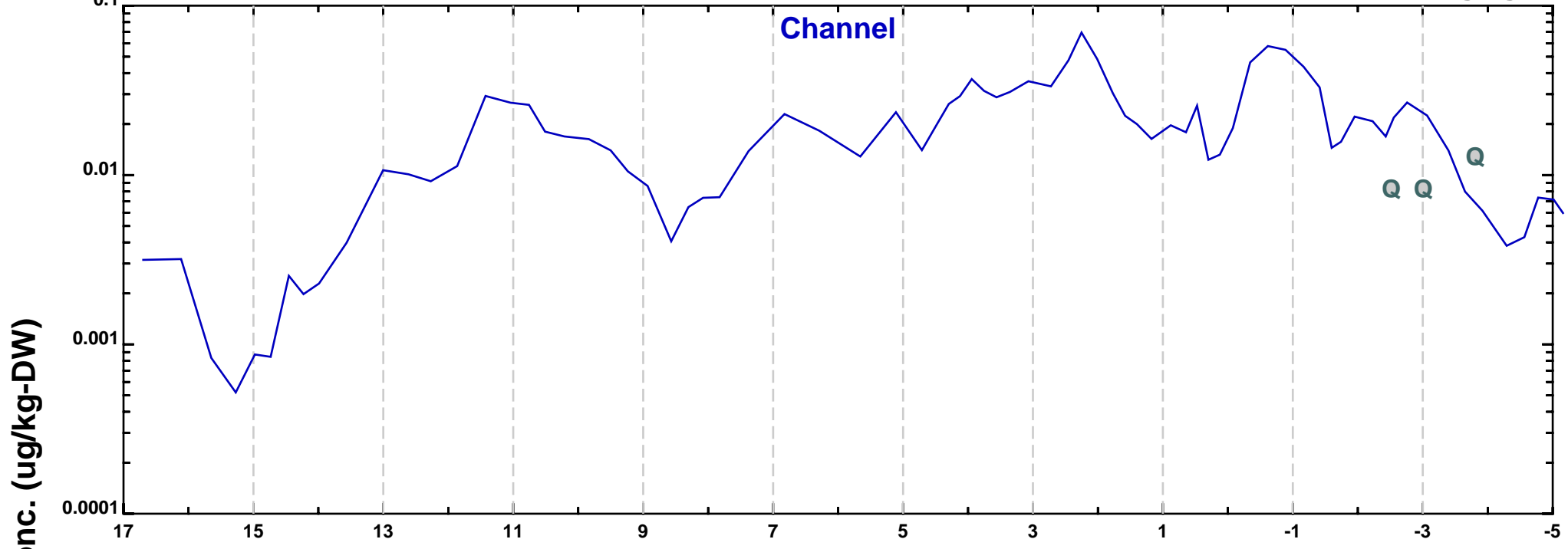
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



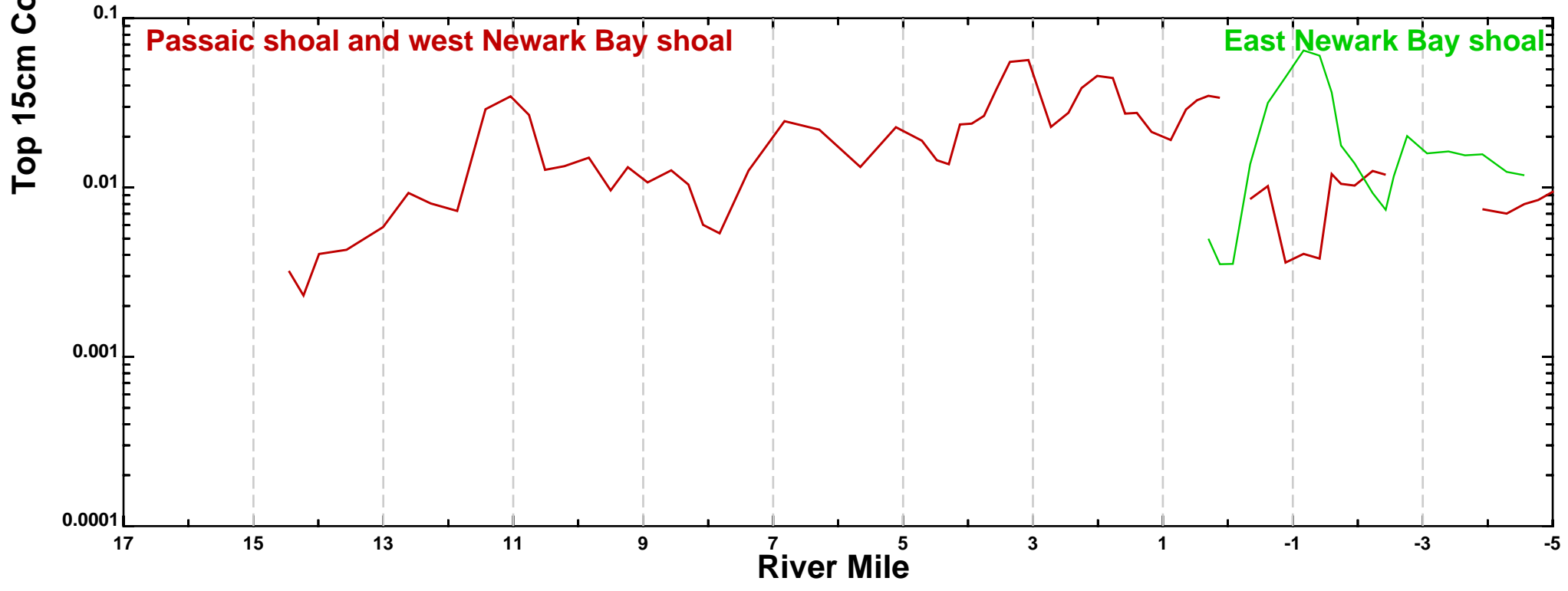
Year =1997.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



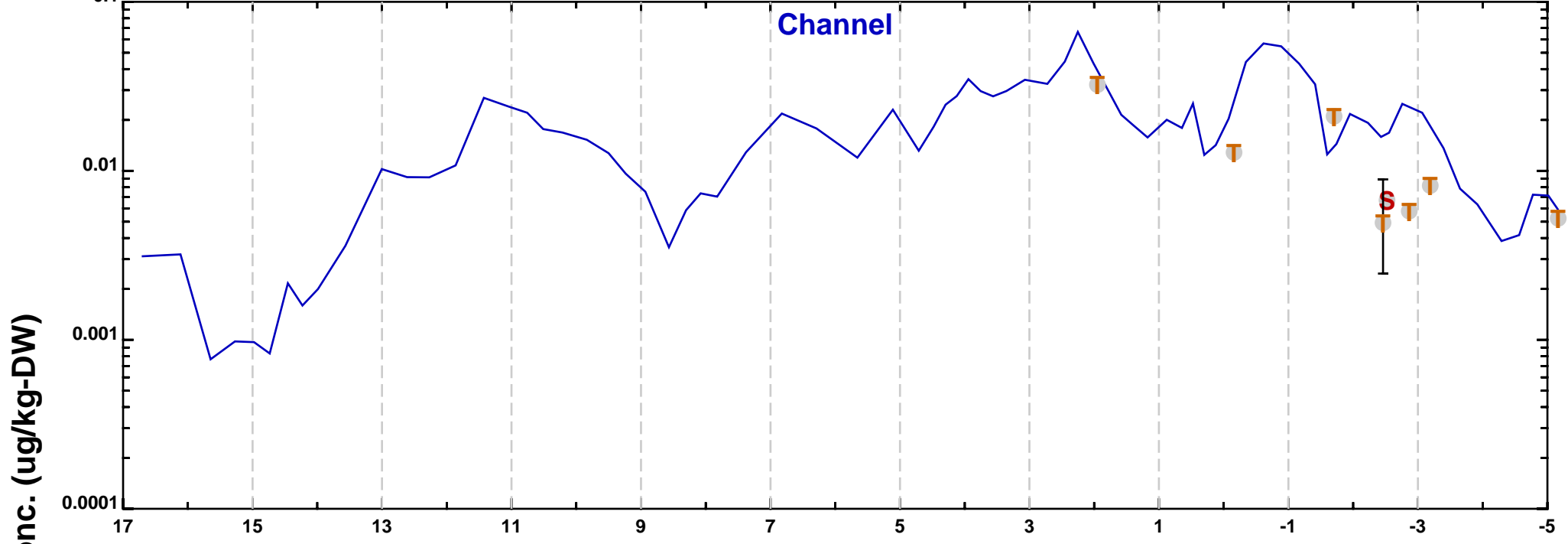
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



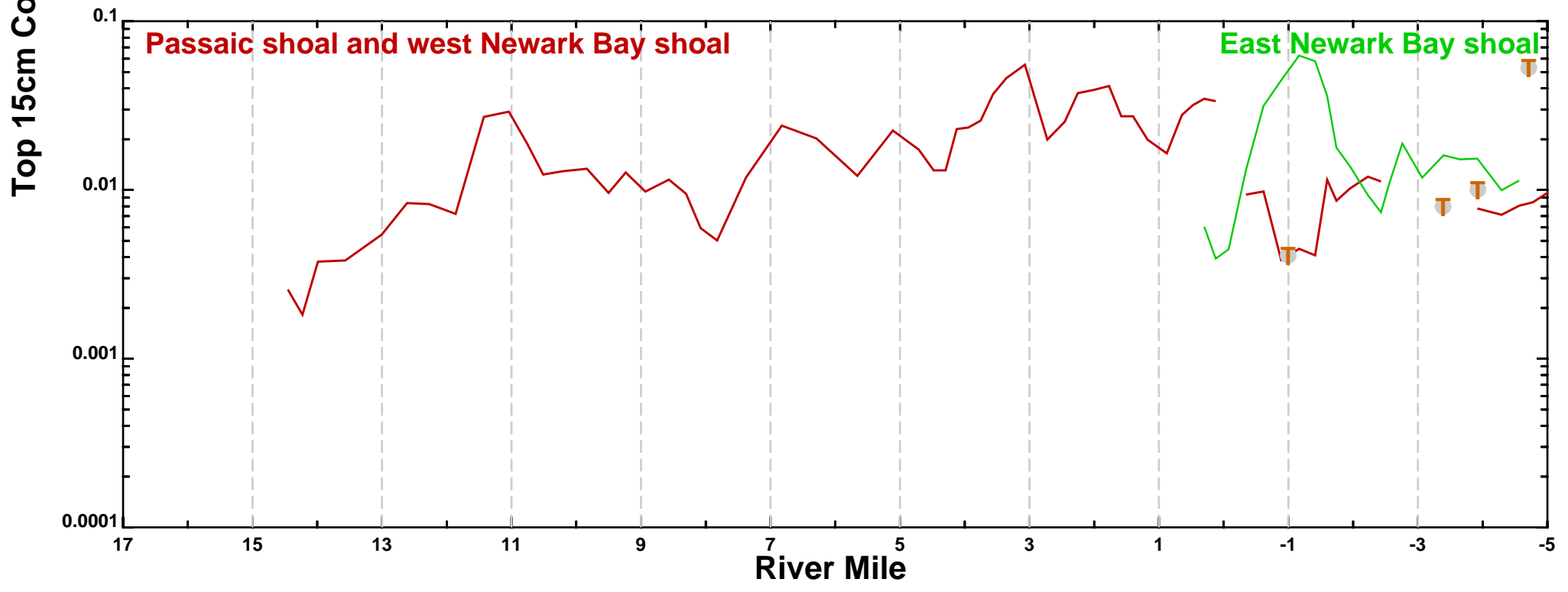
Year =1998.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



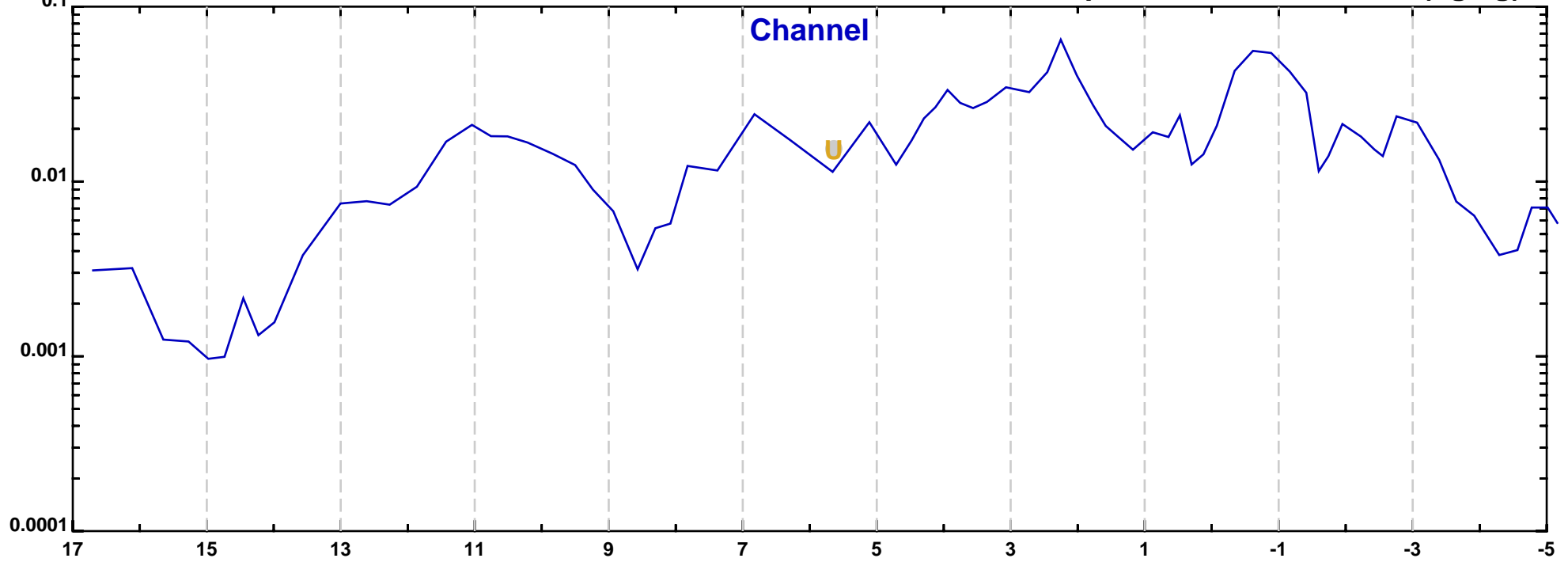
River Mile



Year =1999.0

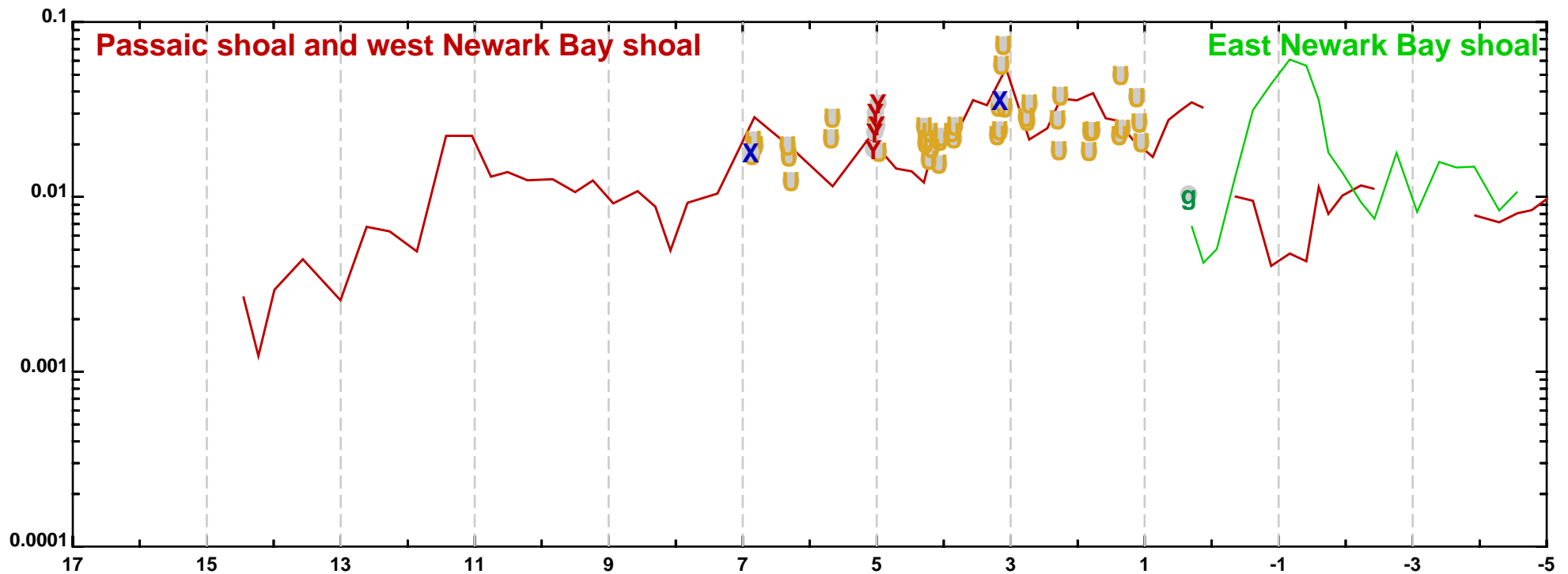
1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



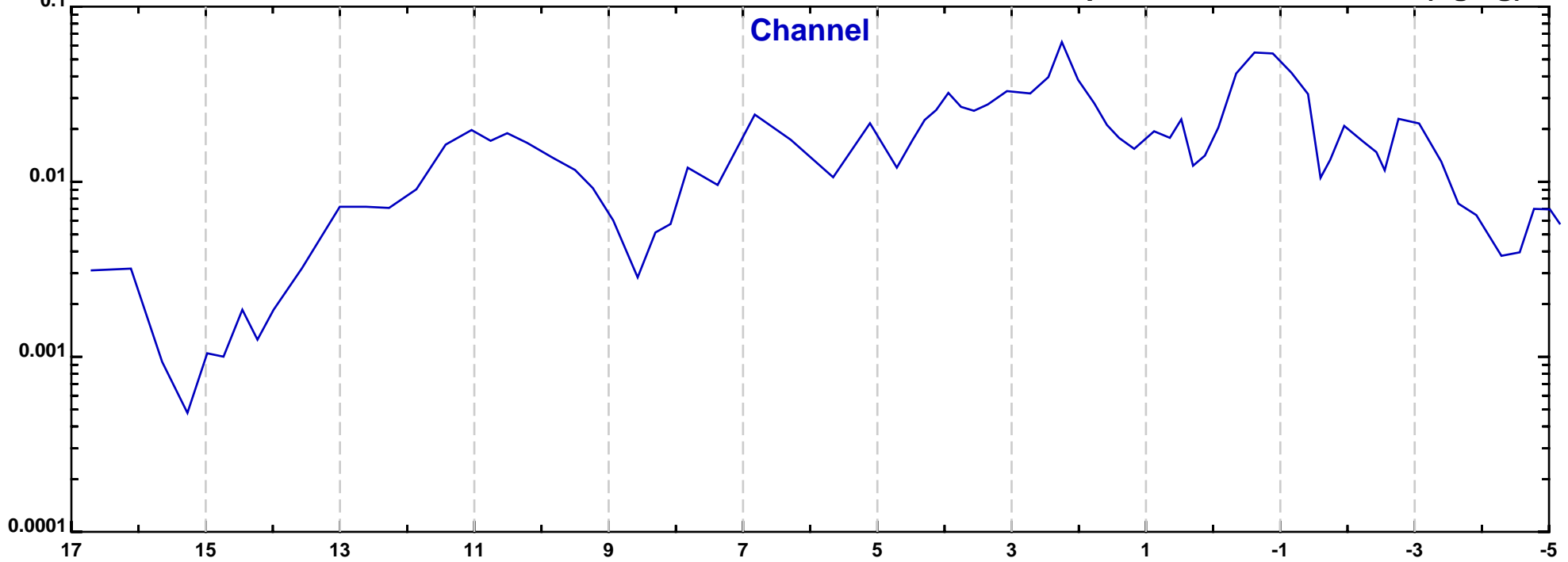
River Mile

Year =2000.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

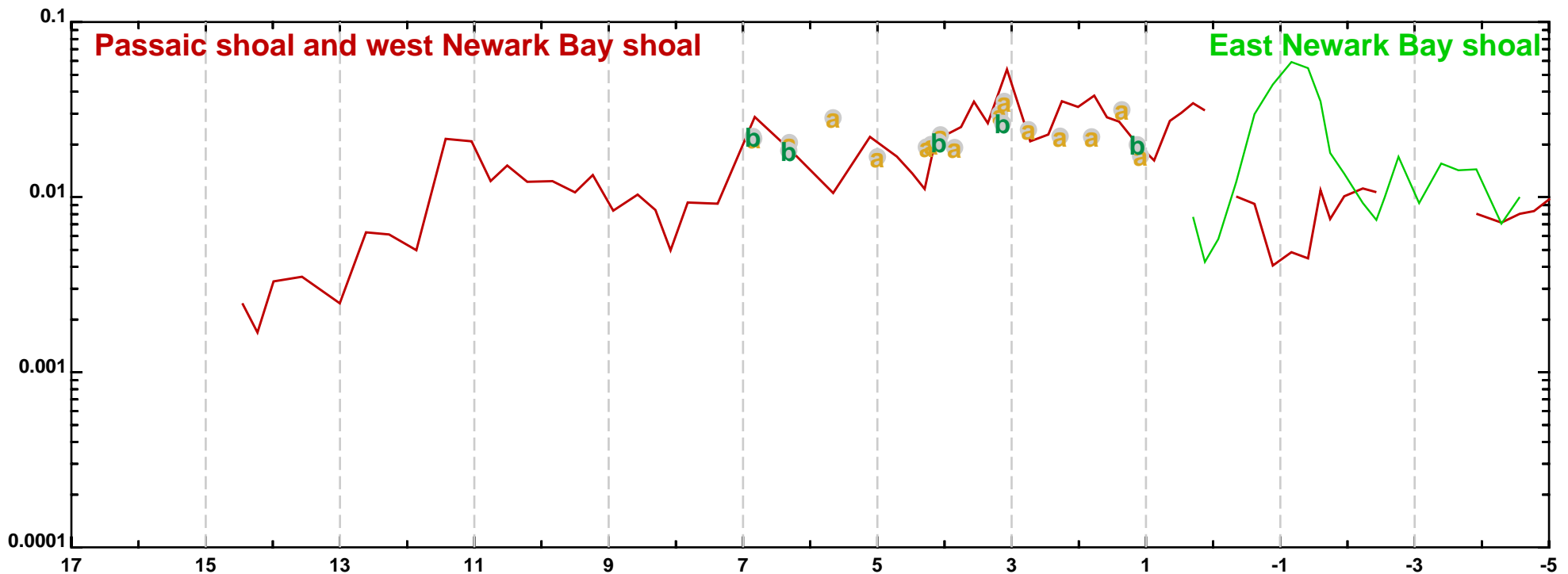
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

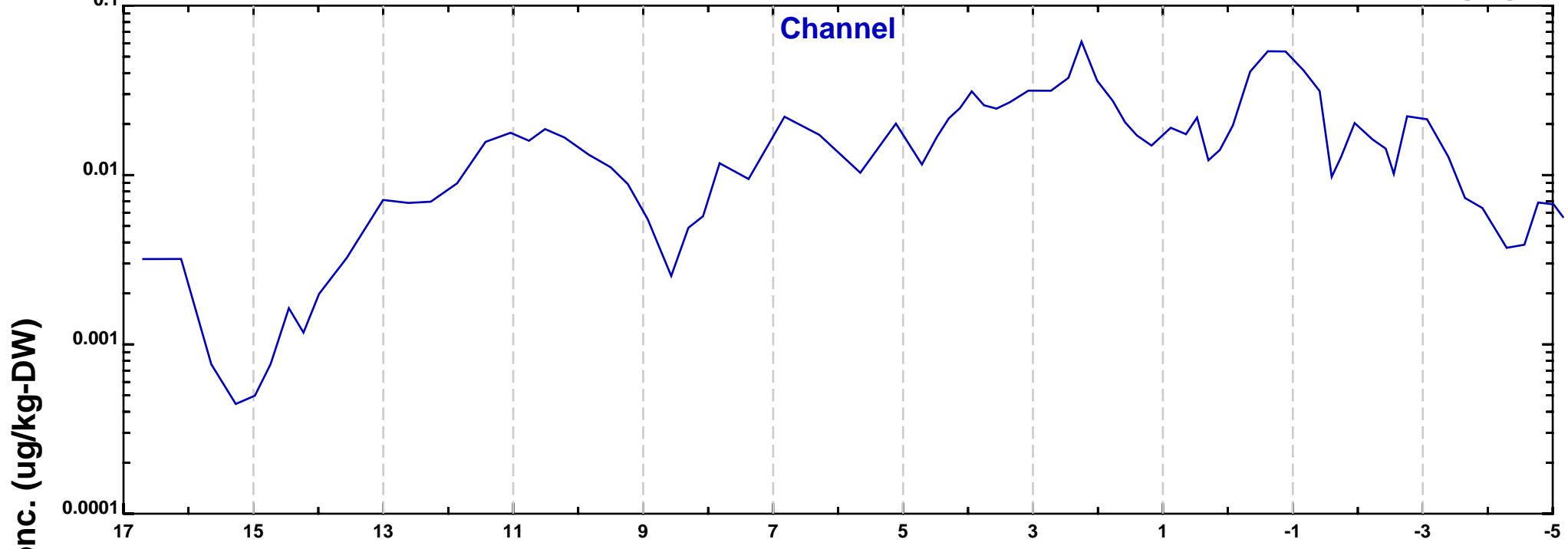
East Newark Bay shoal



River Mile

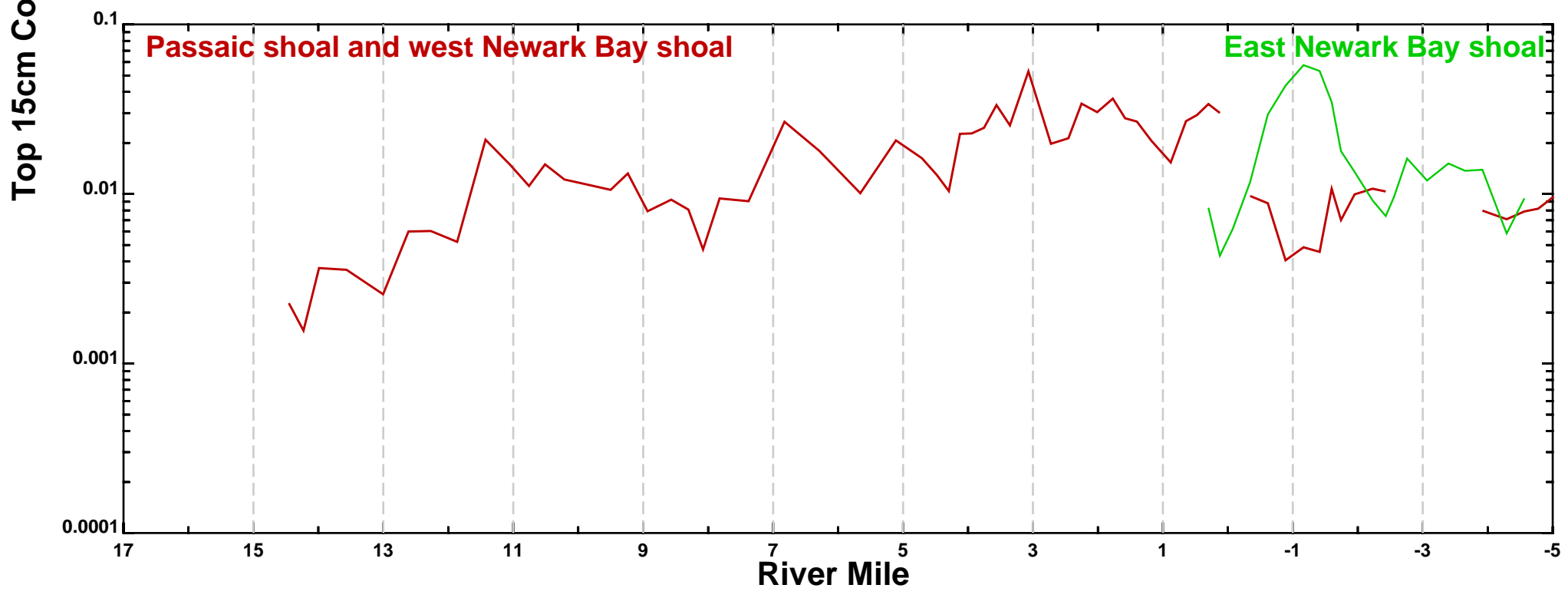
Year =2001.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



**Passaic shoal and west Newark Bay shoal**

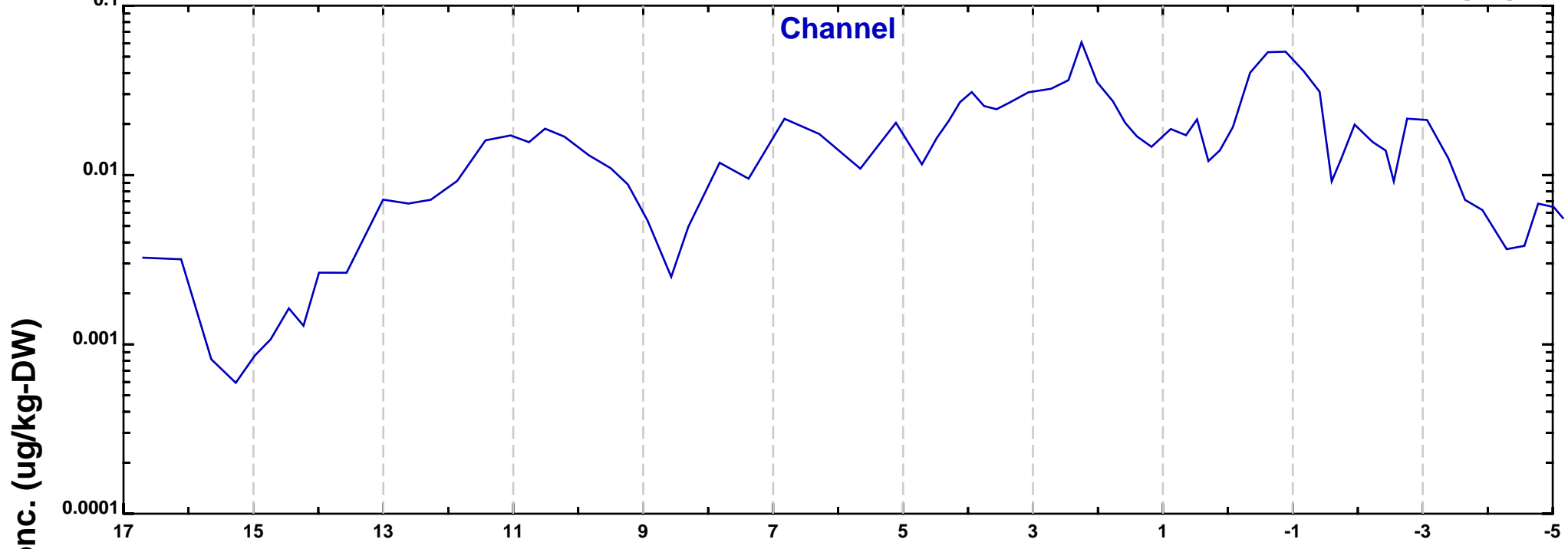
**East Newark Bay shoal**



River Mile

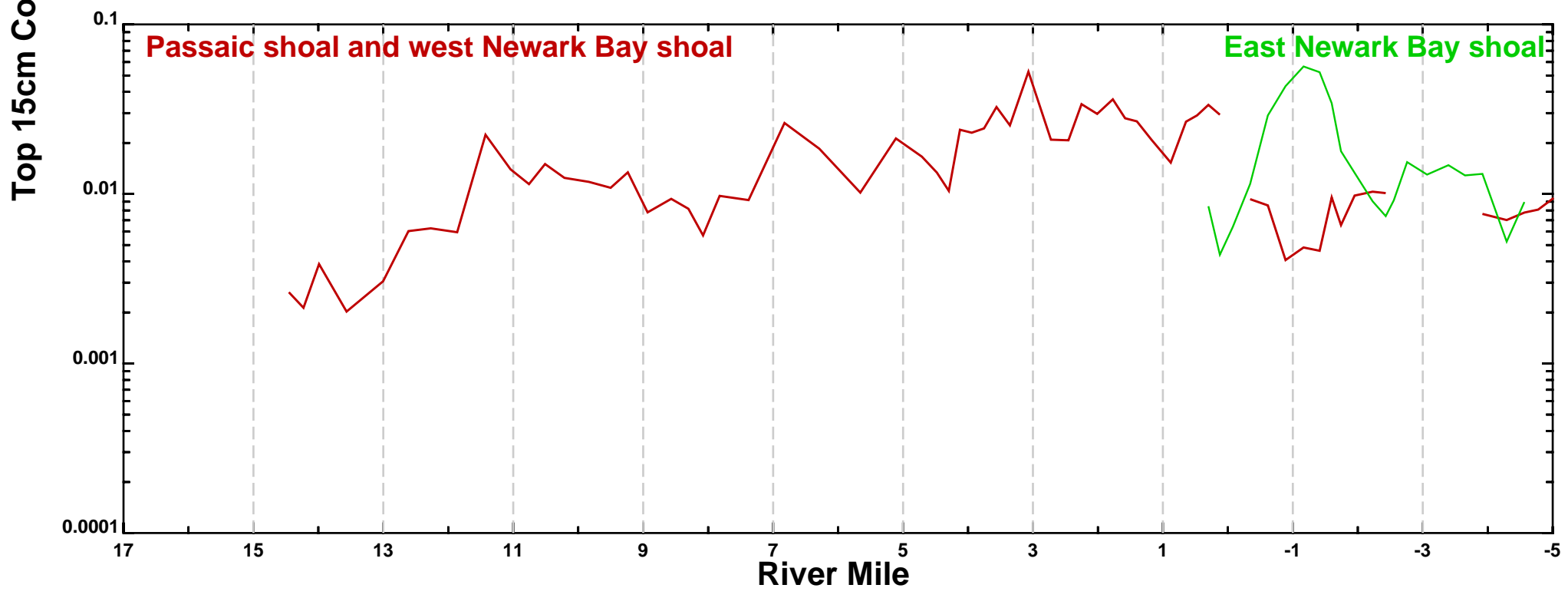
Year =2002.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

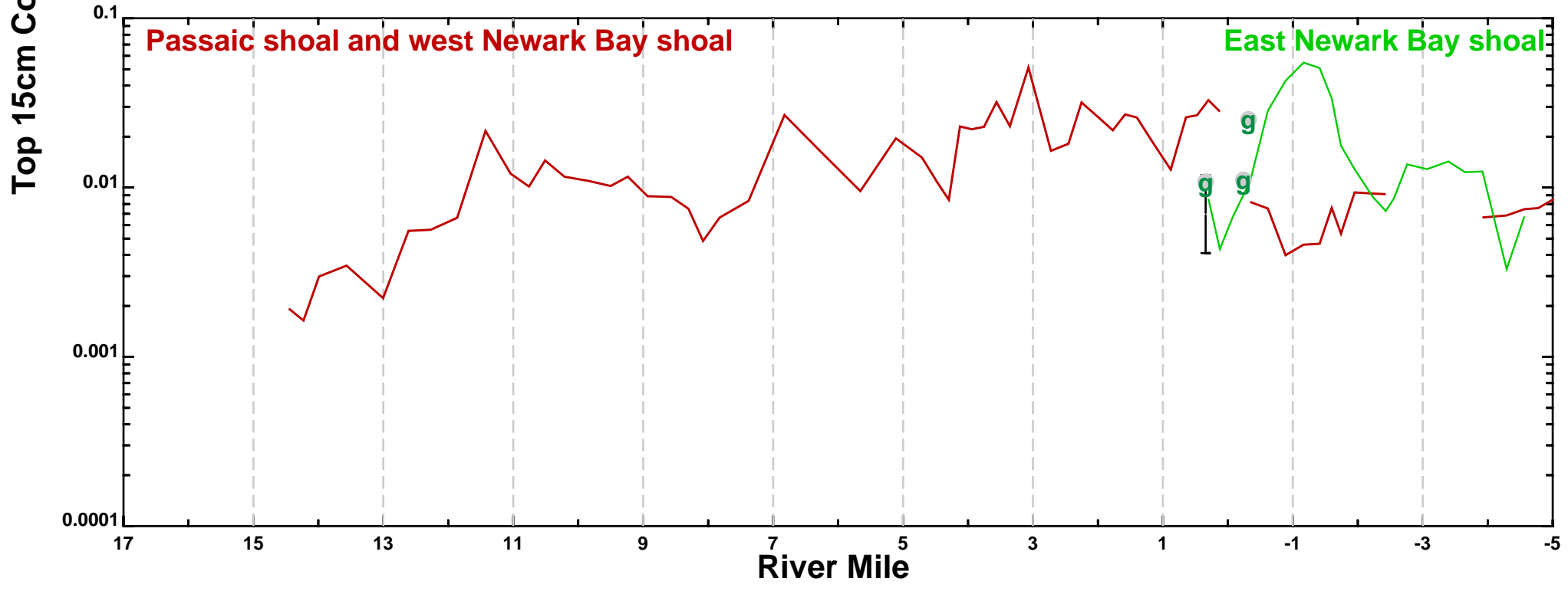
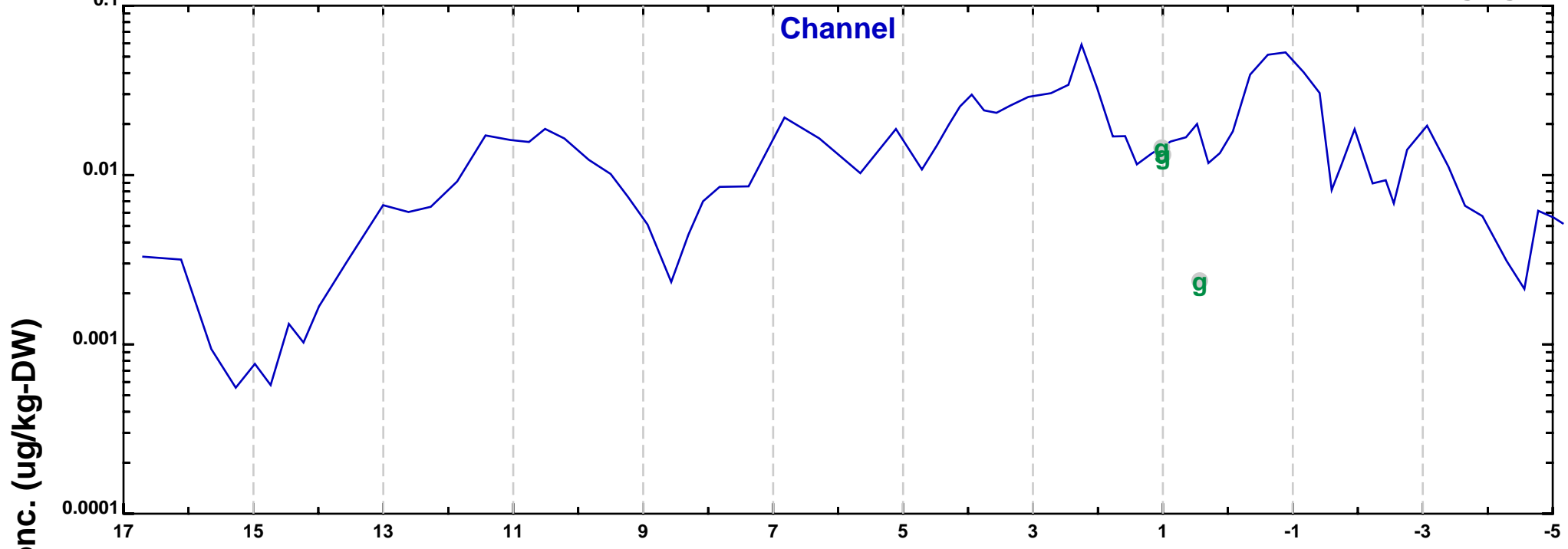
East Newark Bay shoal



River Mile

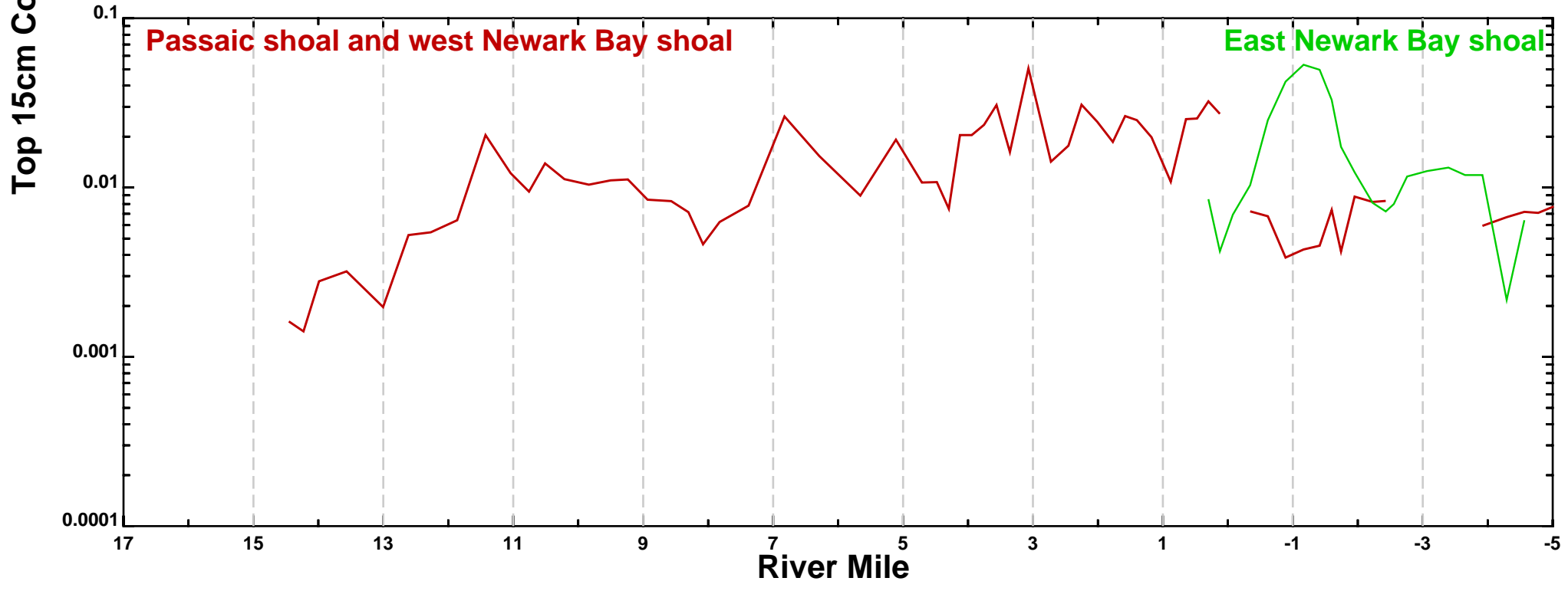
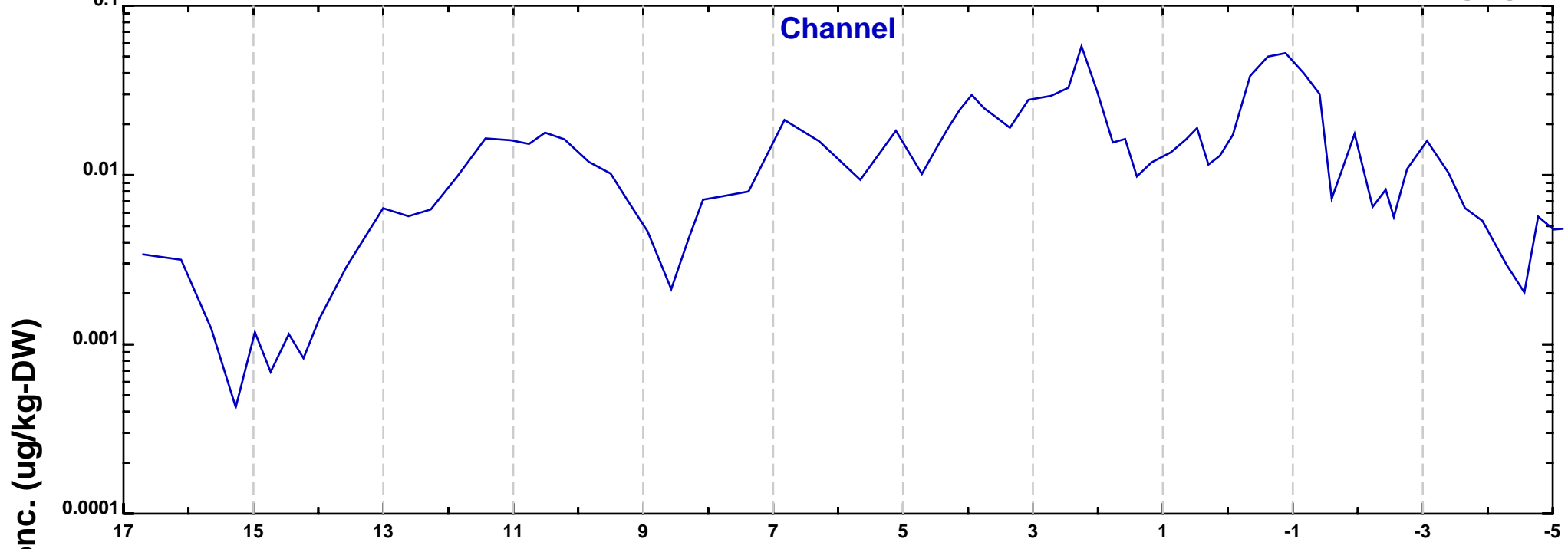
Year =2003.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



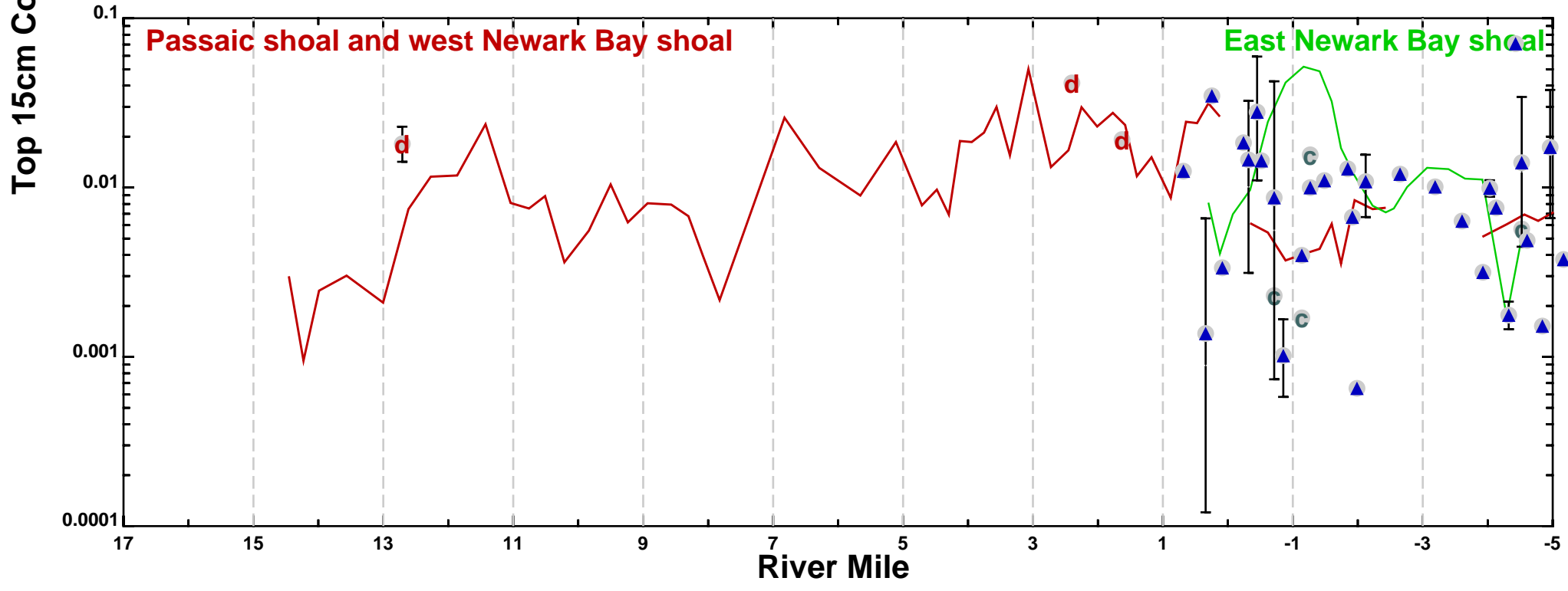
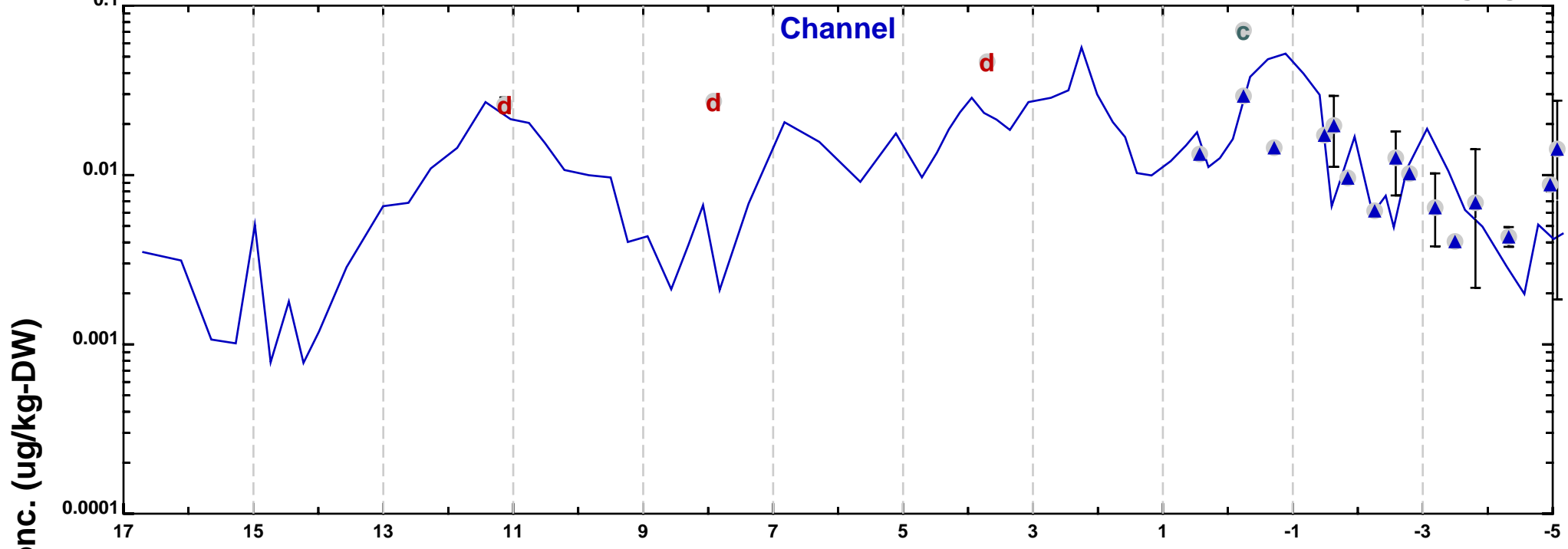
Year =2004.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



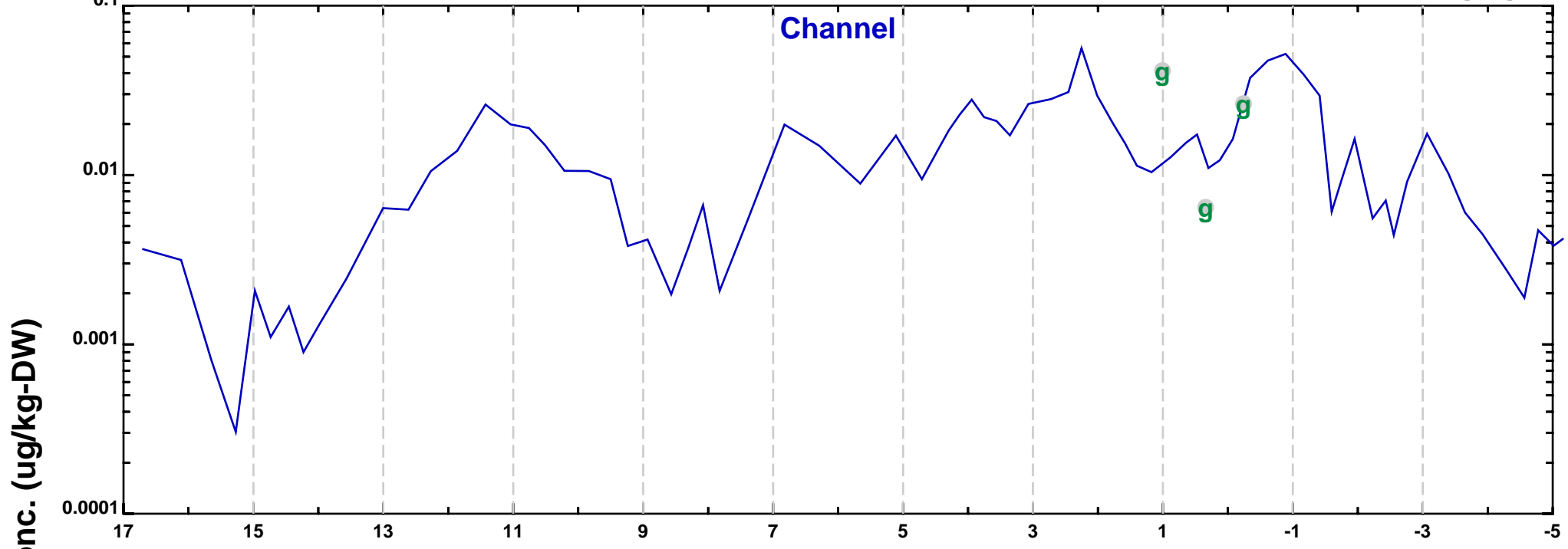
Year =2005.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



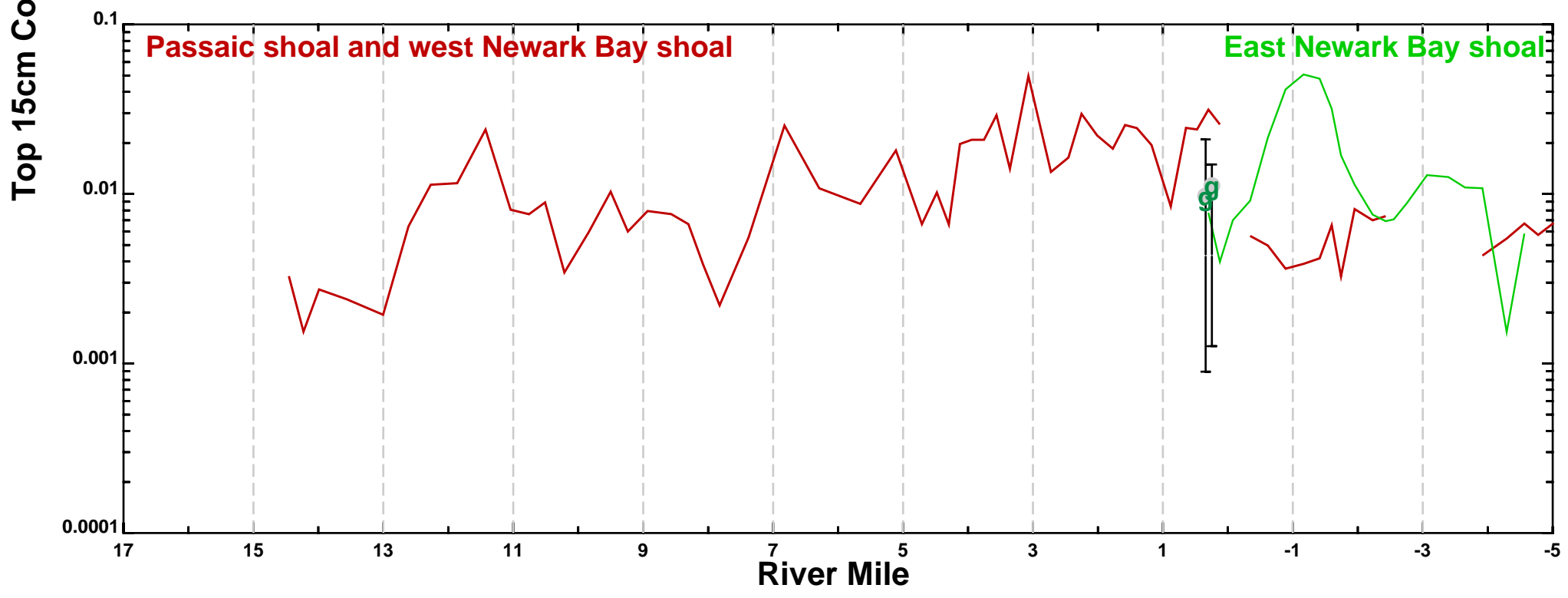
Year =2006.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

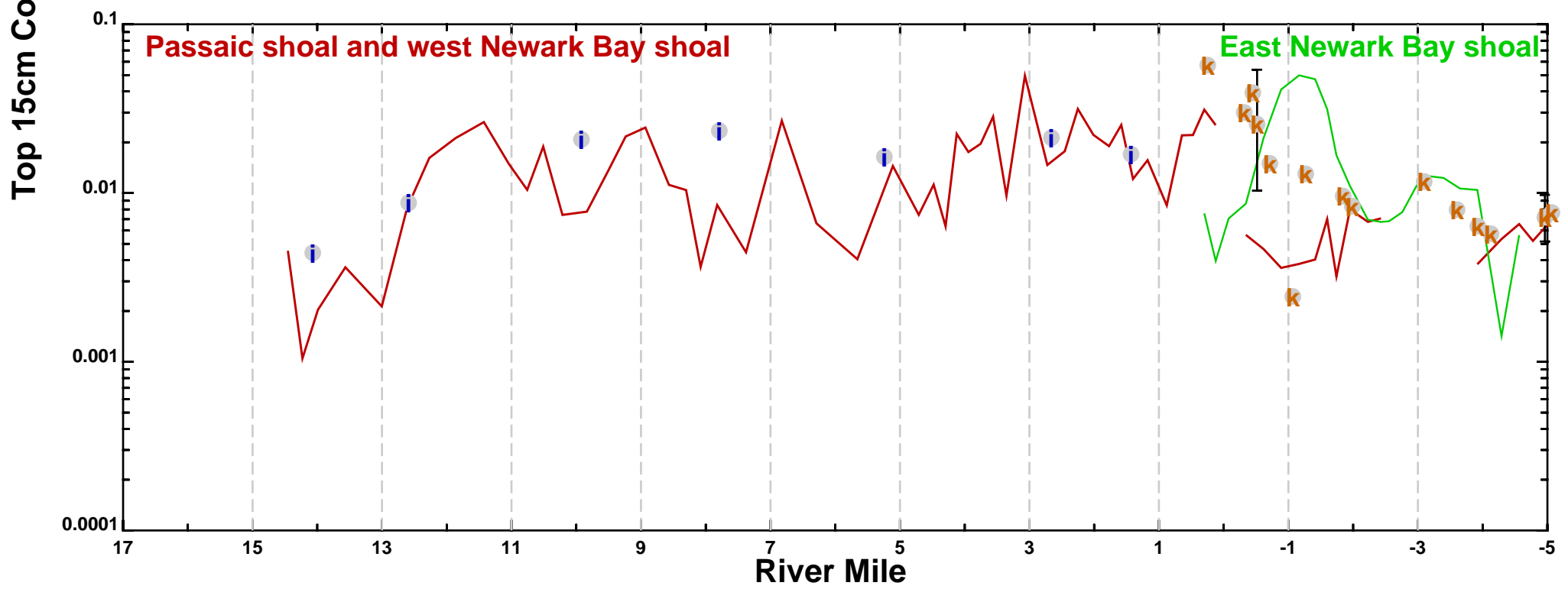
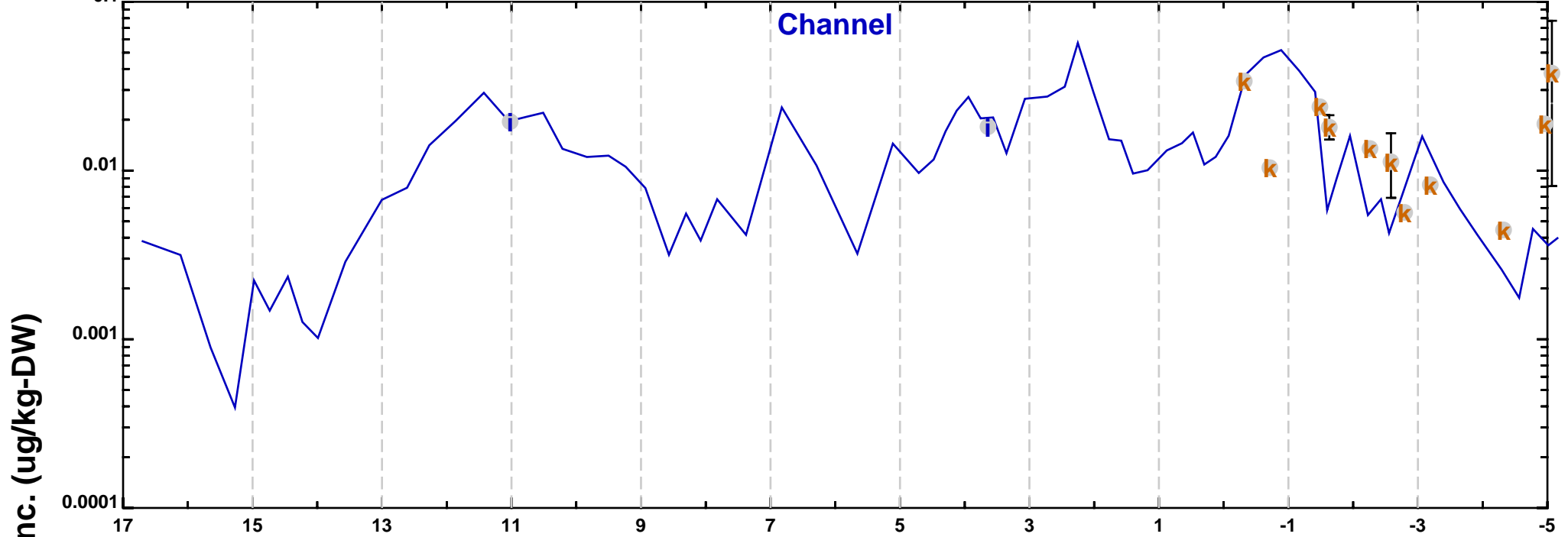
East Newark Bay shoal





Year =2007.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

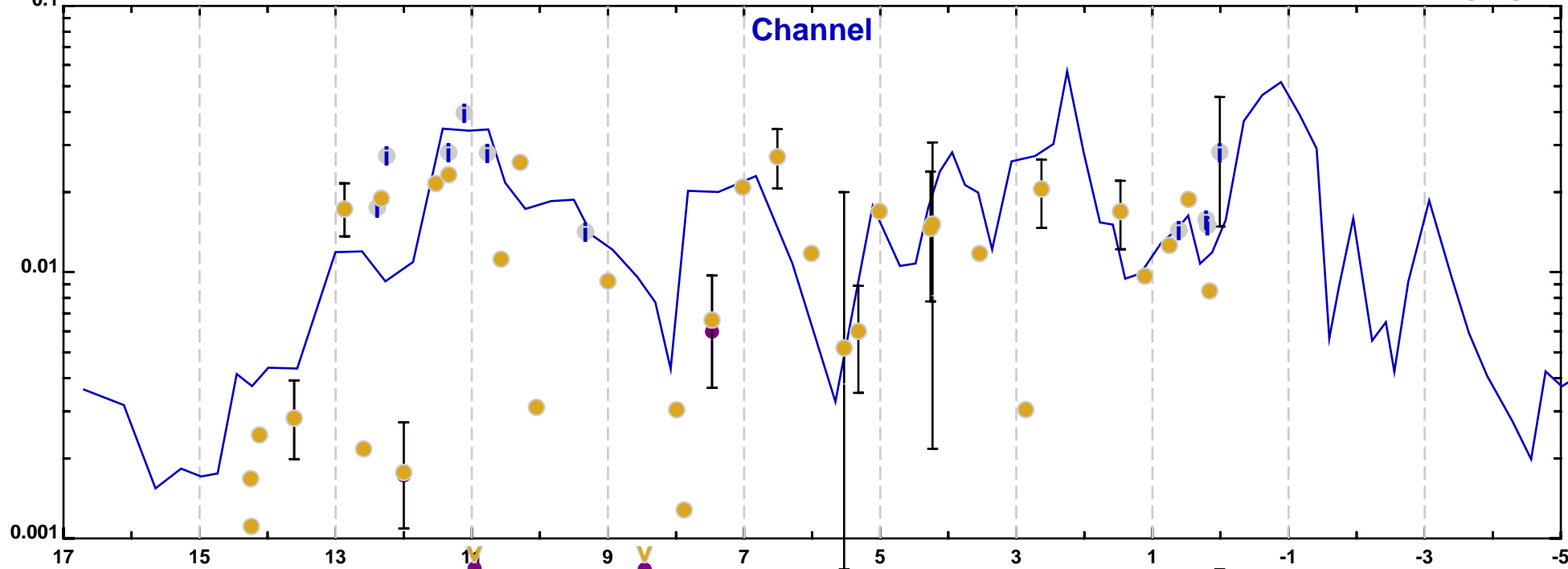


Year =2008.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

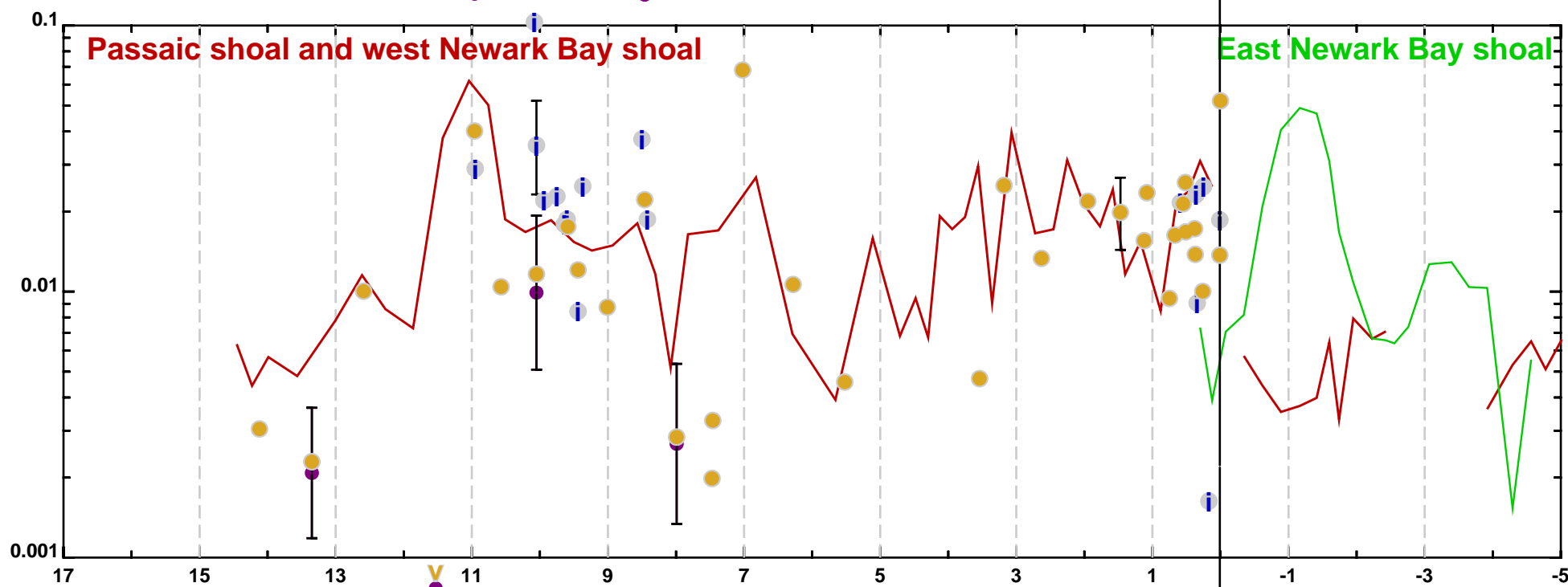
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



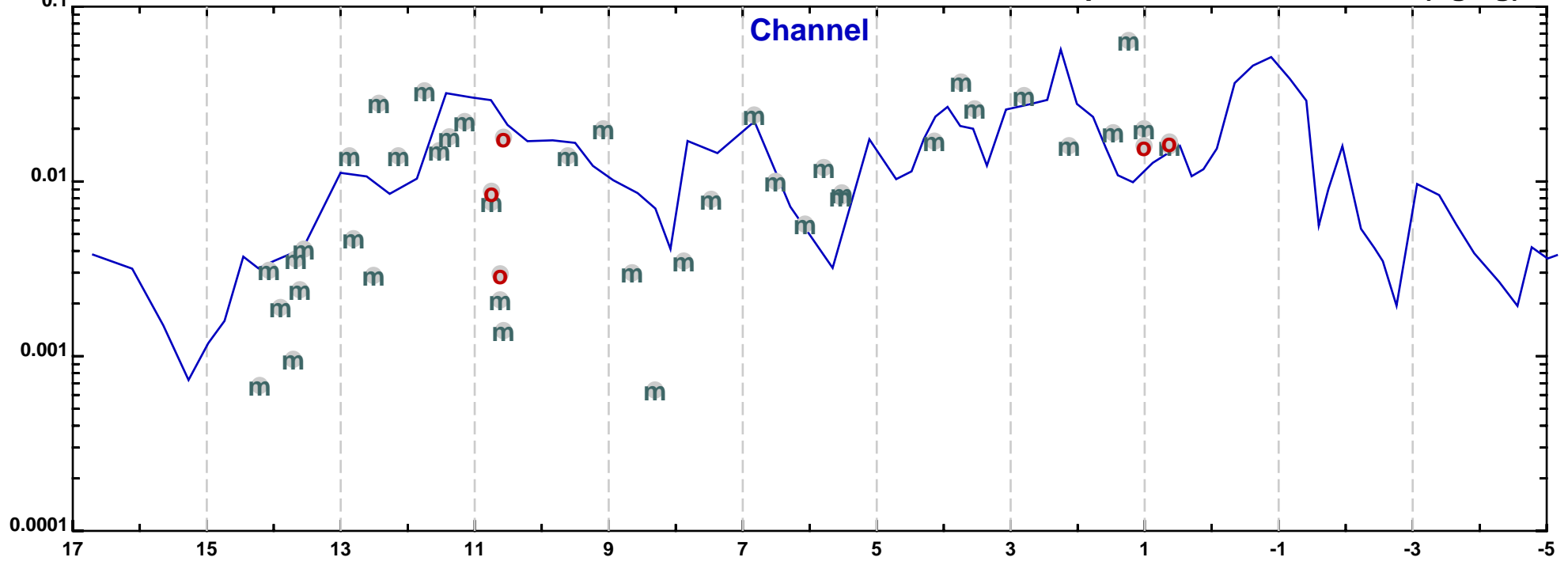
River Mile

Year =2009.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

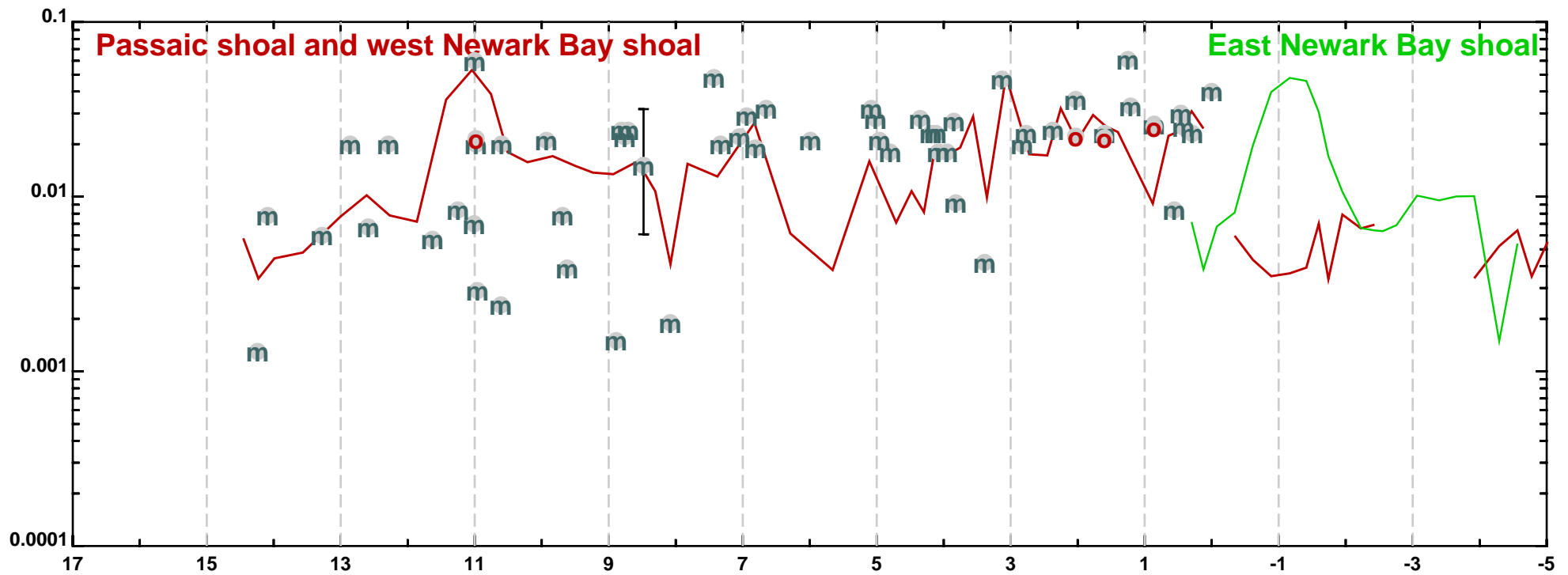
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



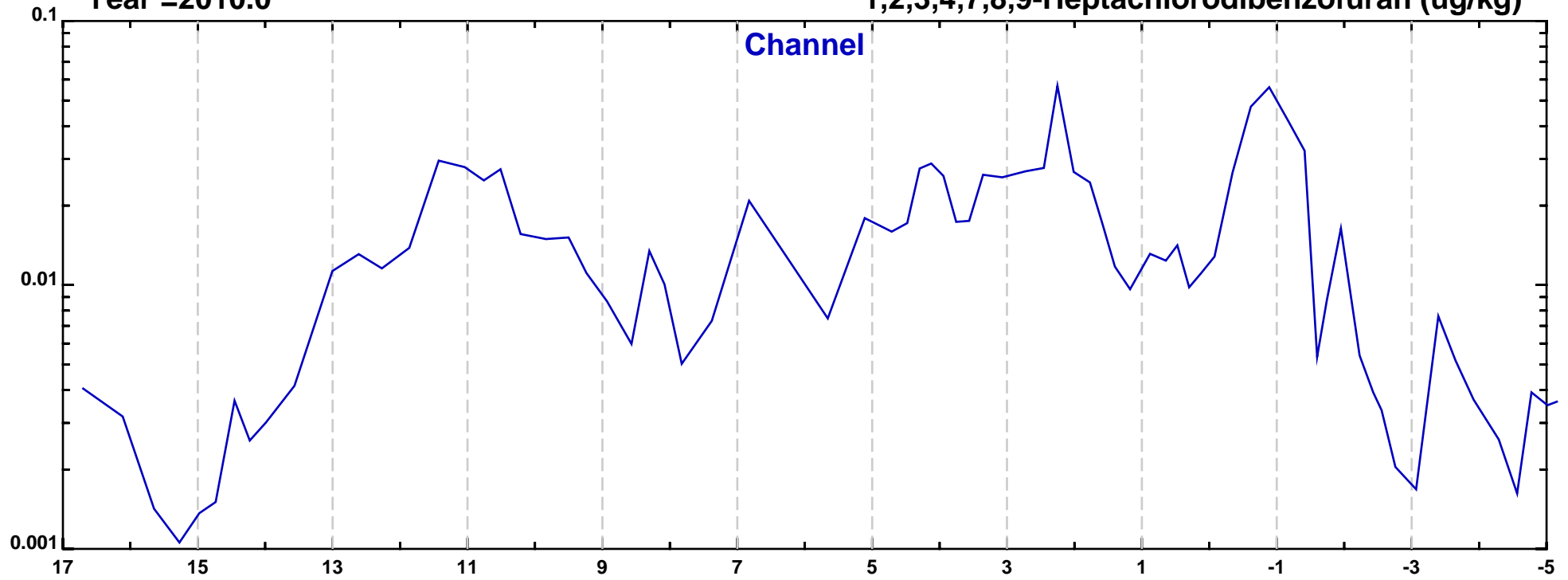
River Mile

Year =2010.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

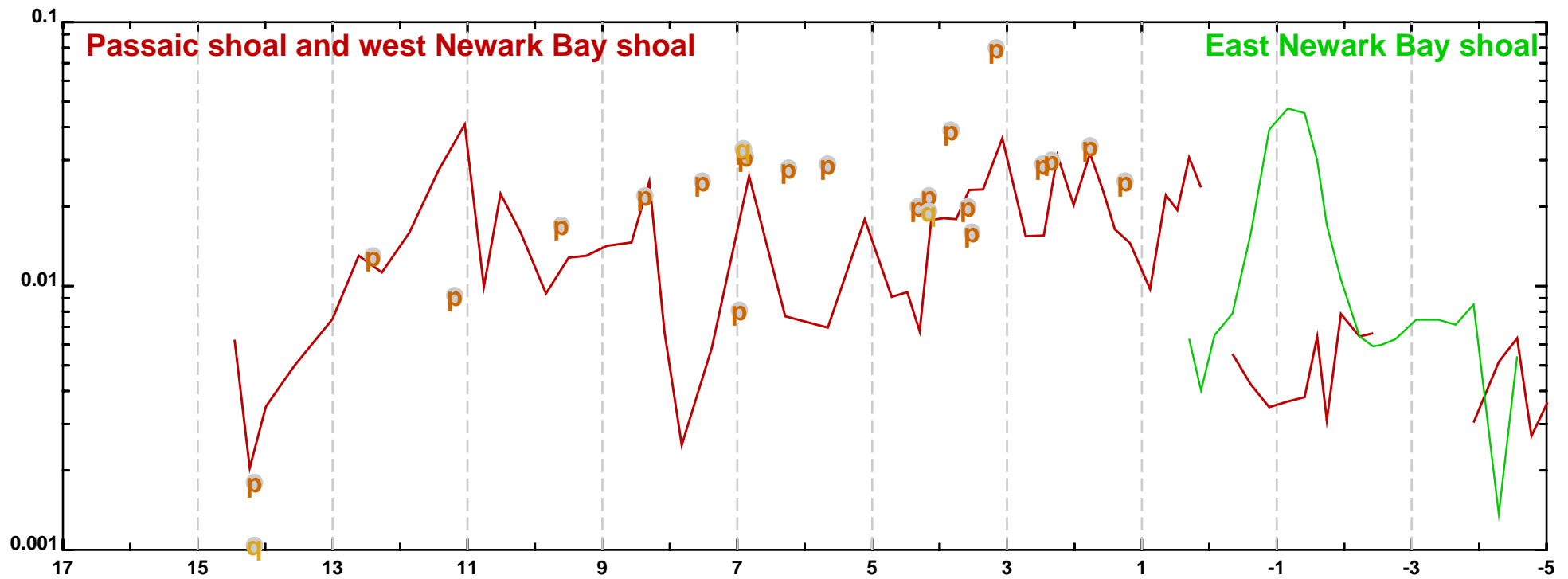
Top 15cm Conc. (ug/kg-DW)

Channel

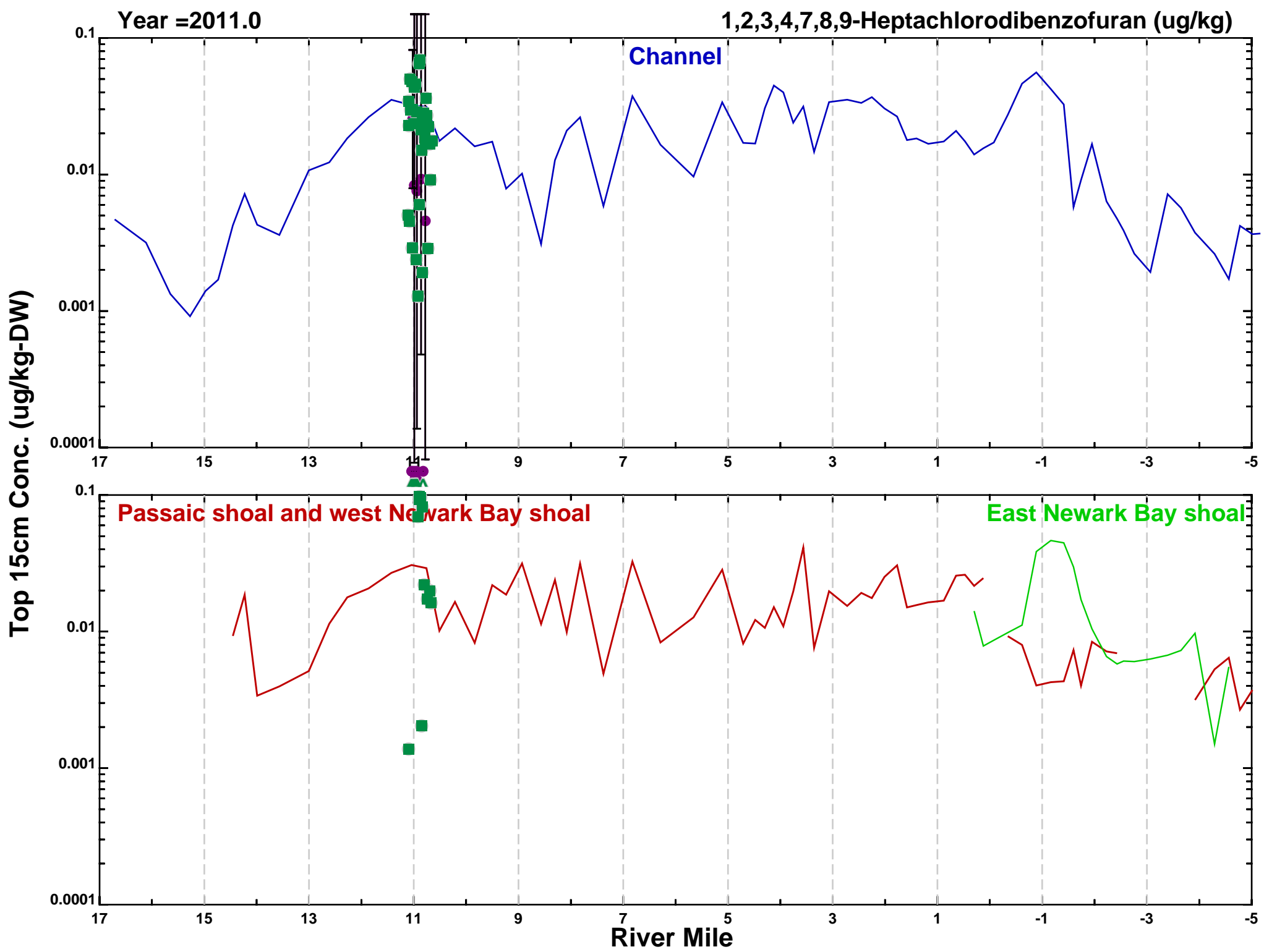


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile



Year =2012.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

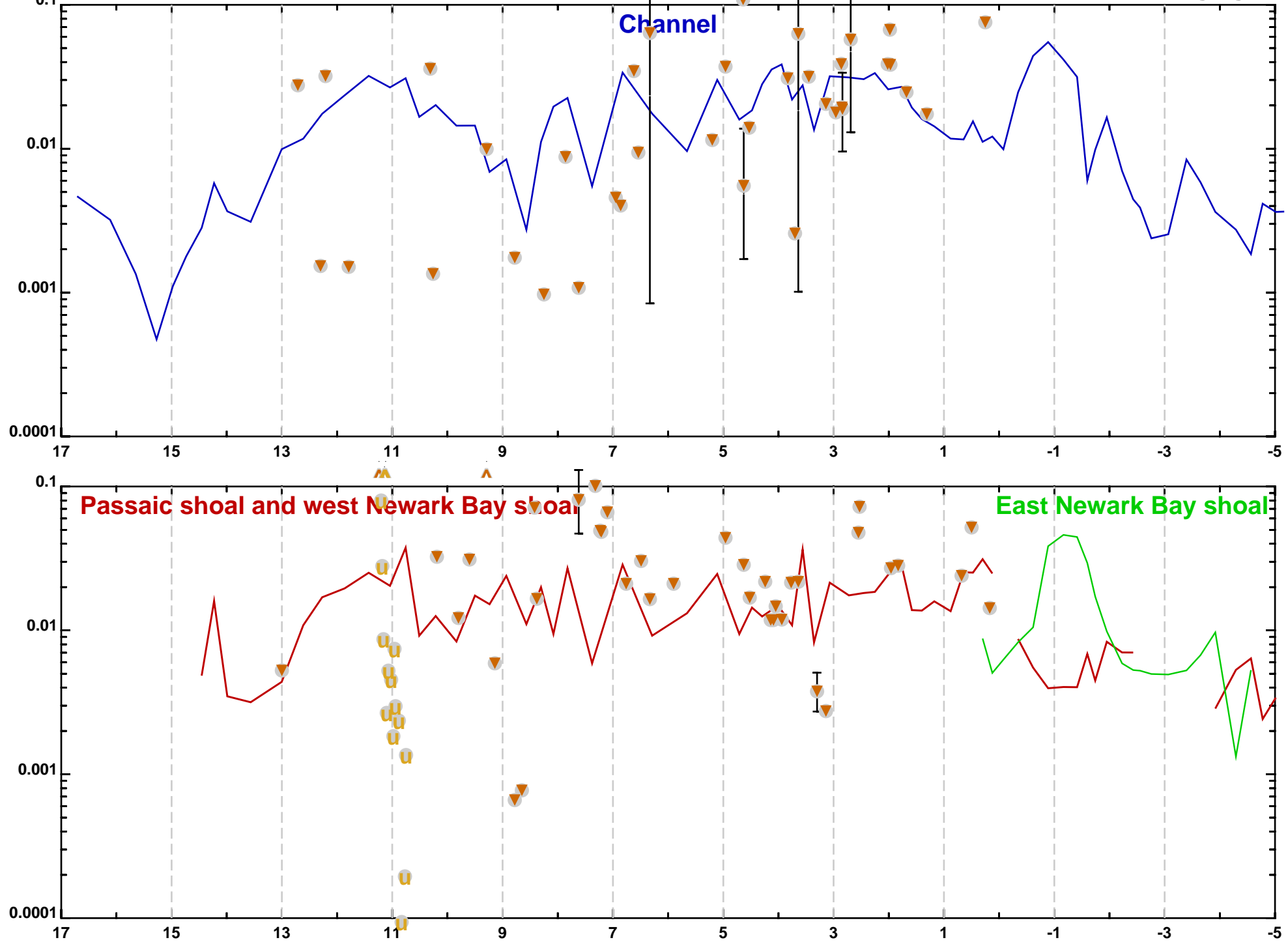
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

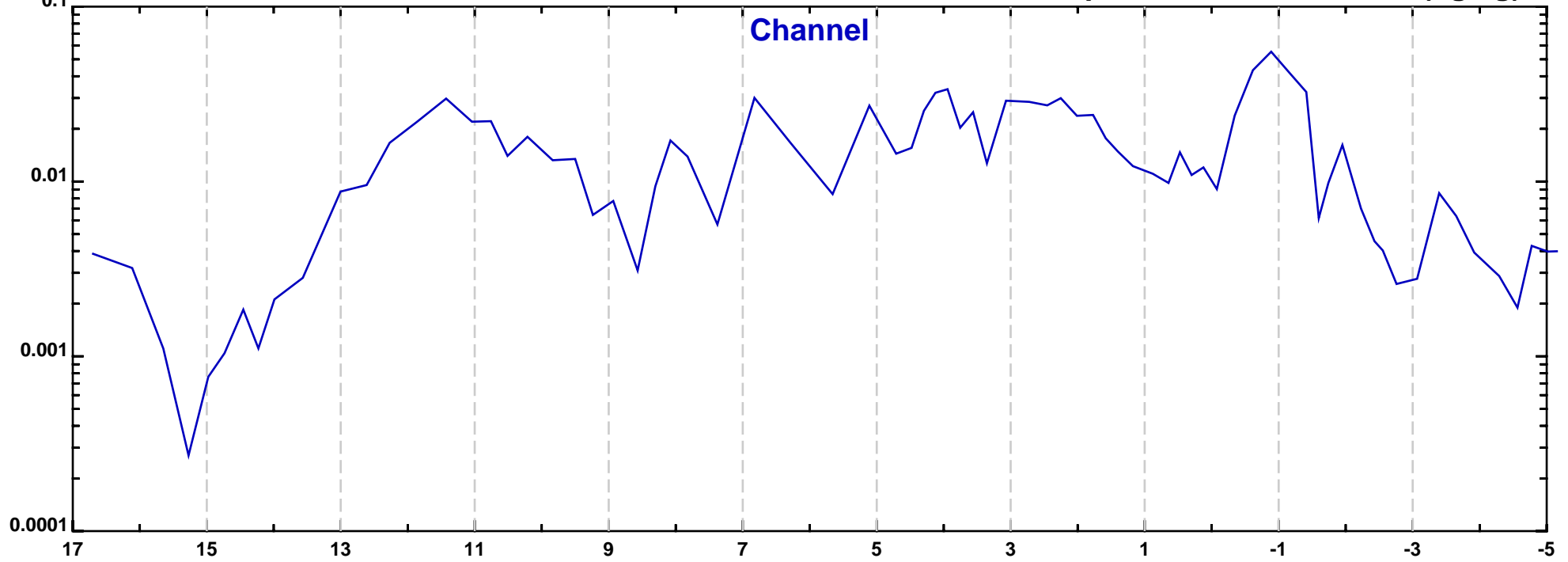


Year =2013.0

1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg)

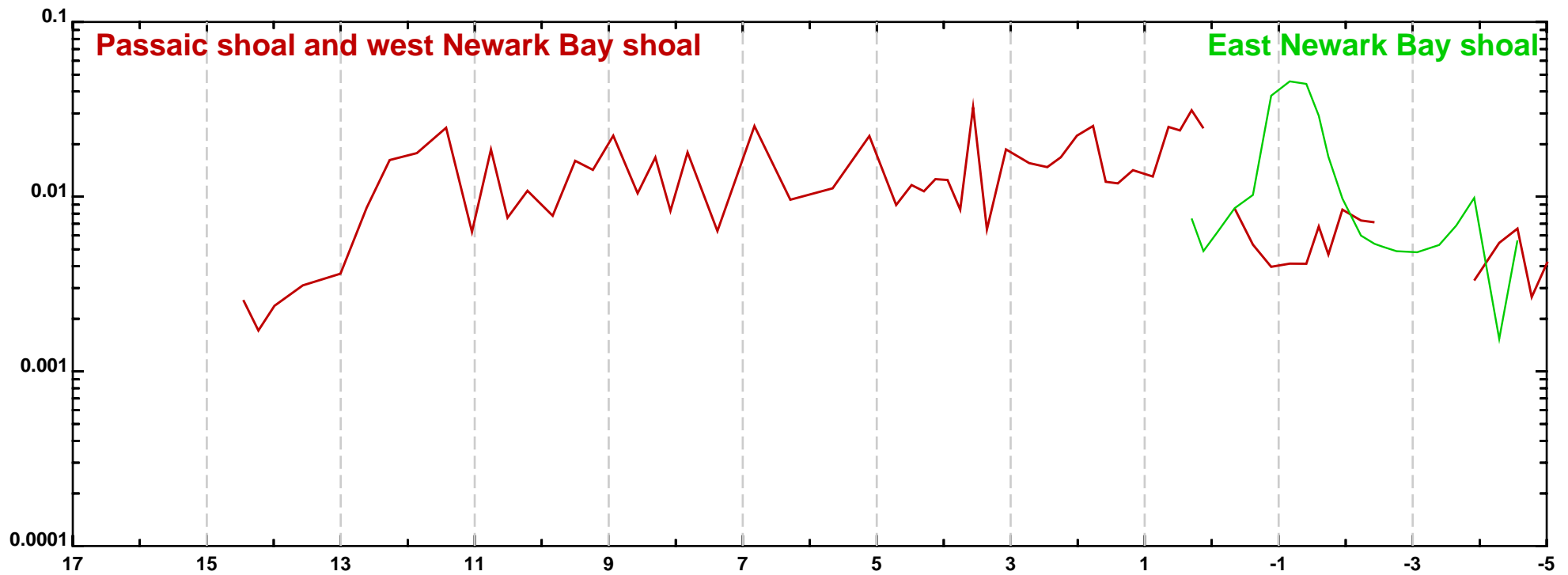
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



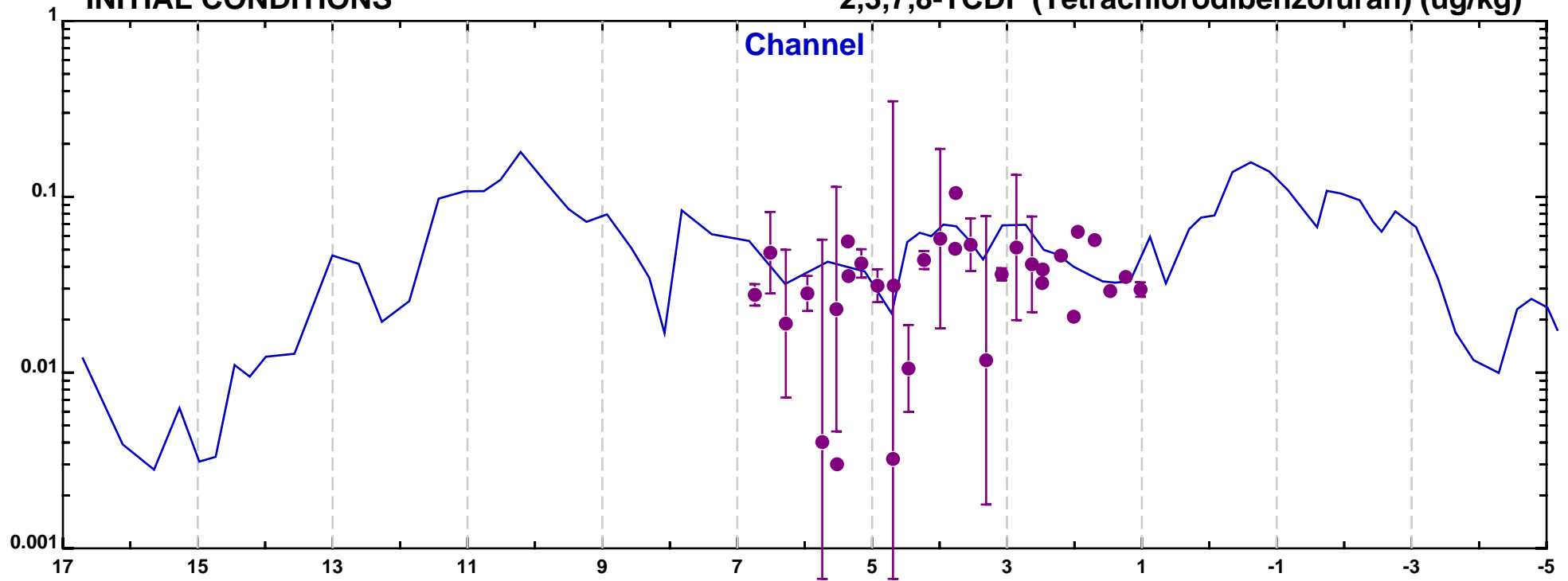
River Mile

**INITIAL CONDITIONS**

**2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)**

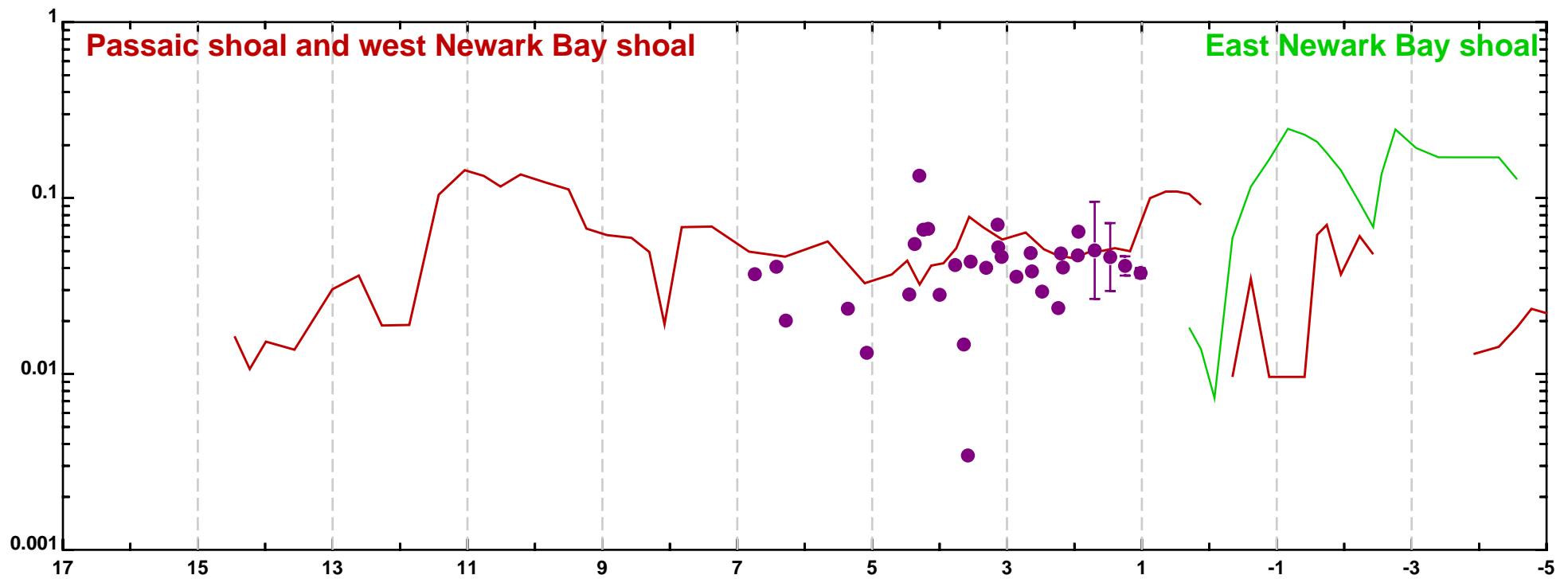
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



**River Mile**

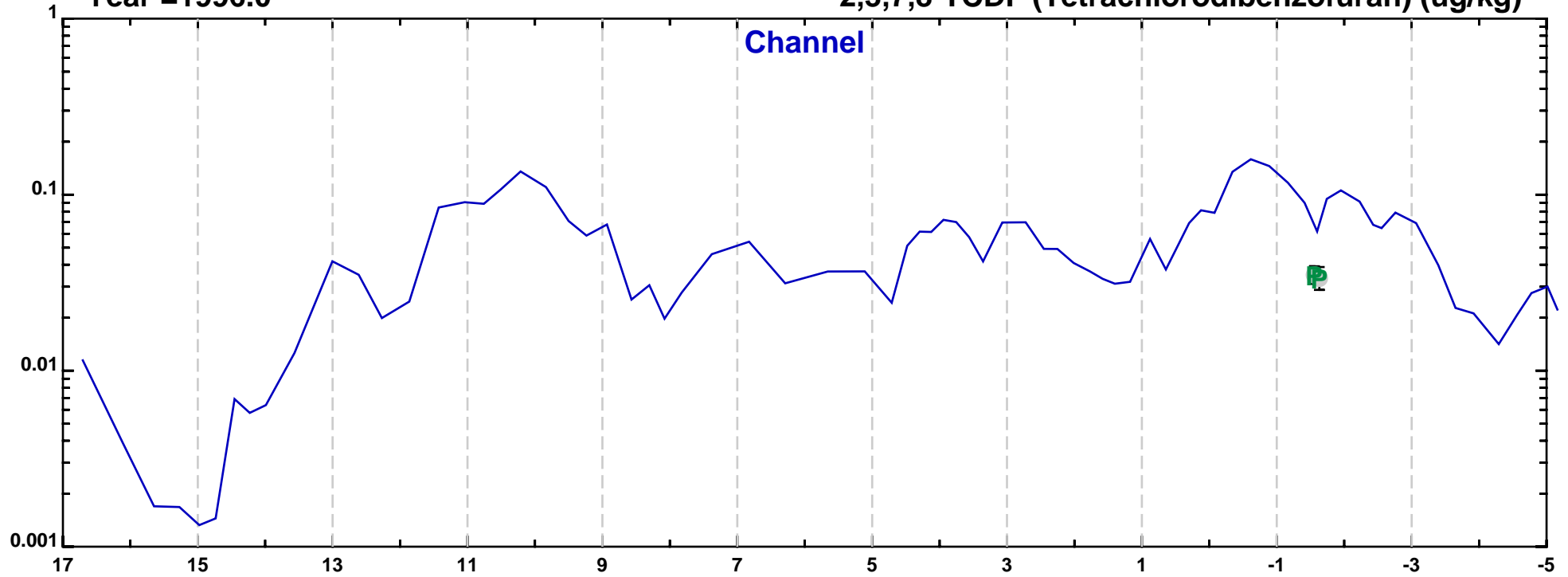


Year = 1996.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

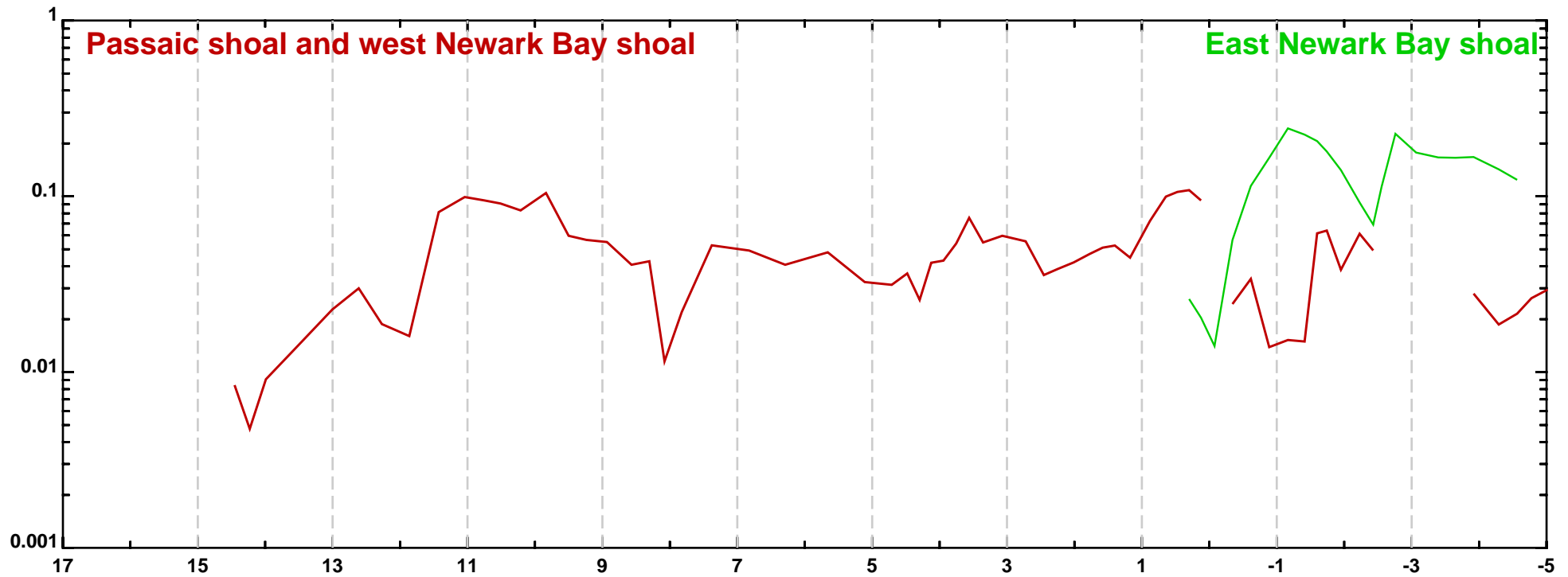
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

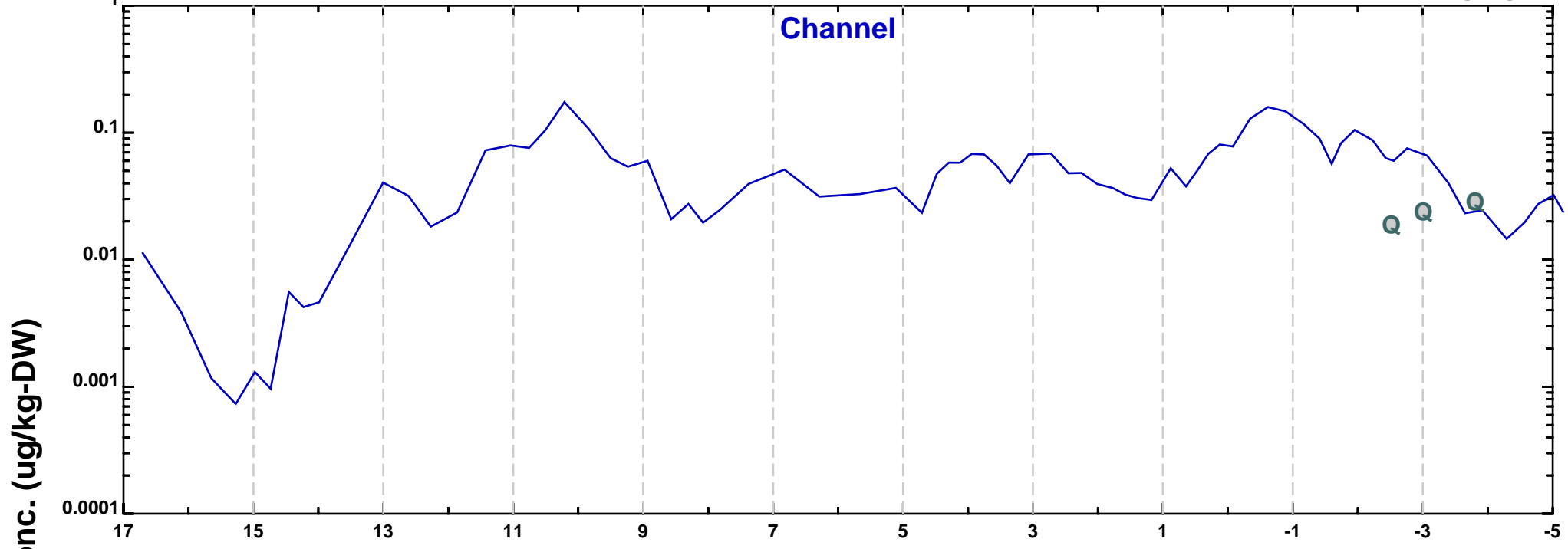
East Newark Bay shoal



River Mile

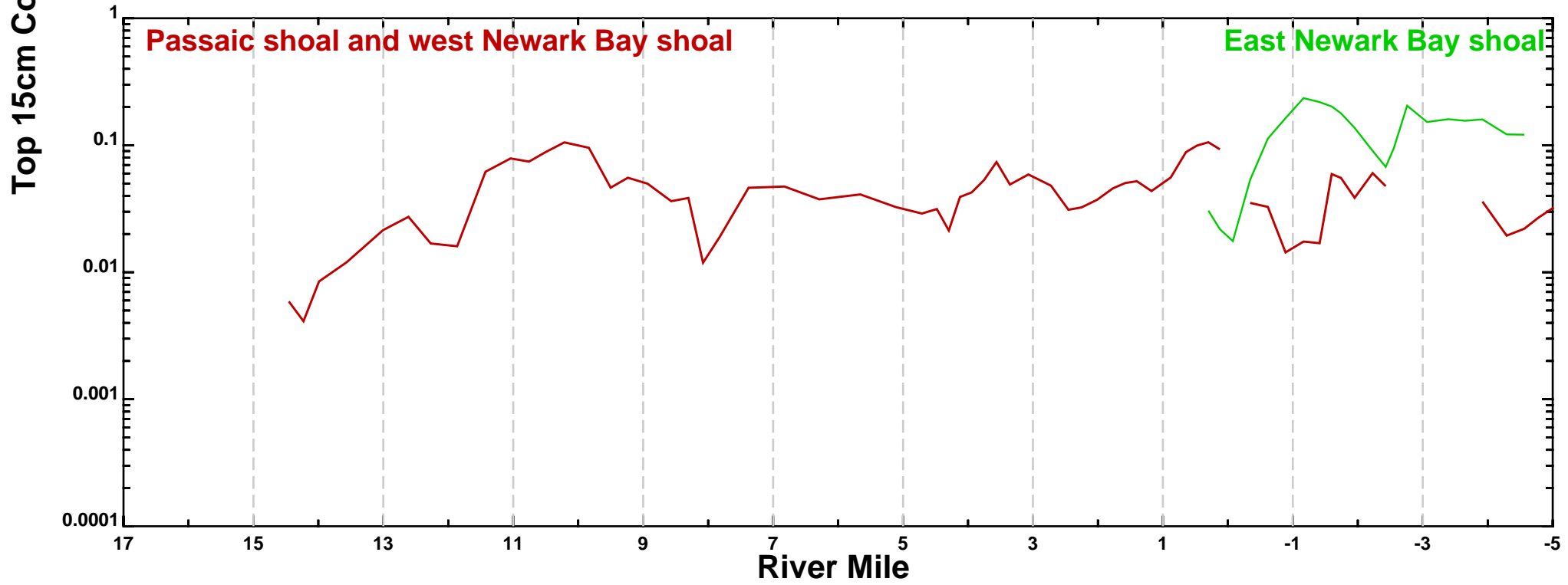
Year =1997.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)



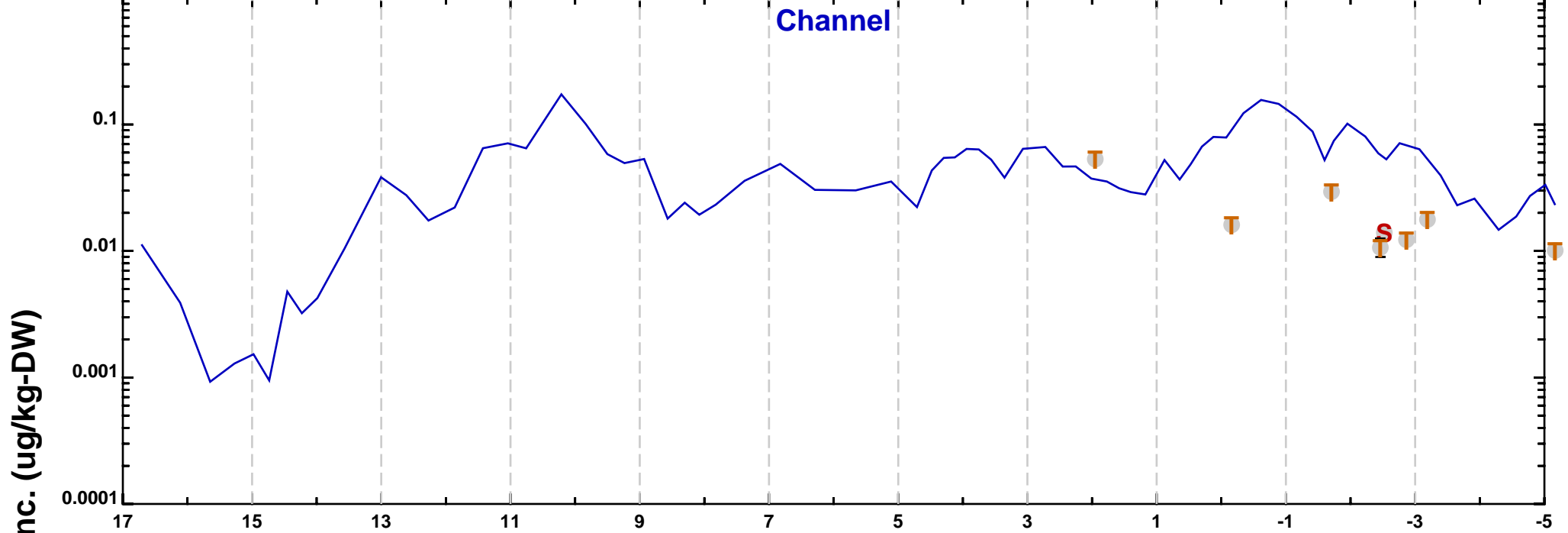
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



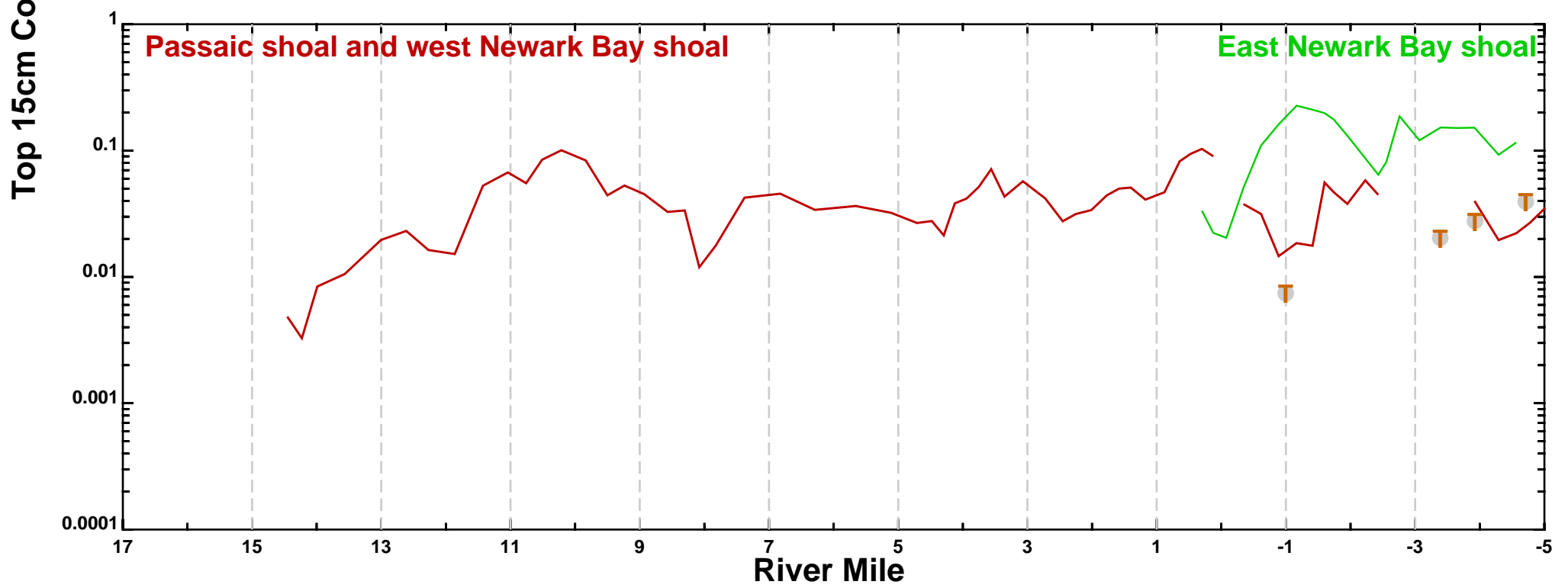
Year =1998.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)



Passaic shoal and west Newark Bay shoal

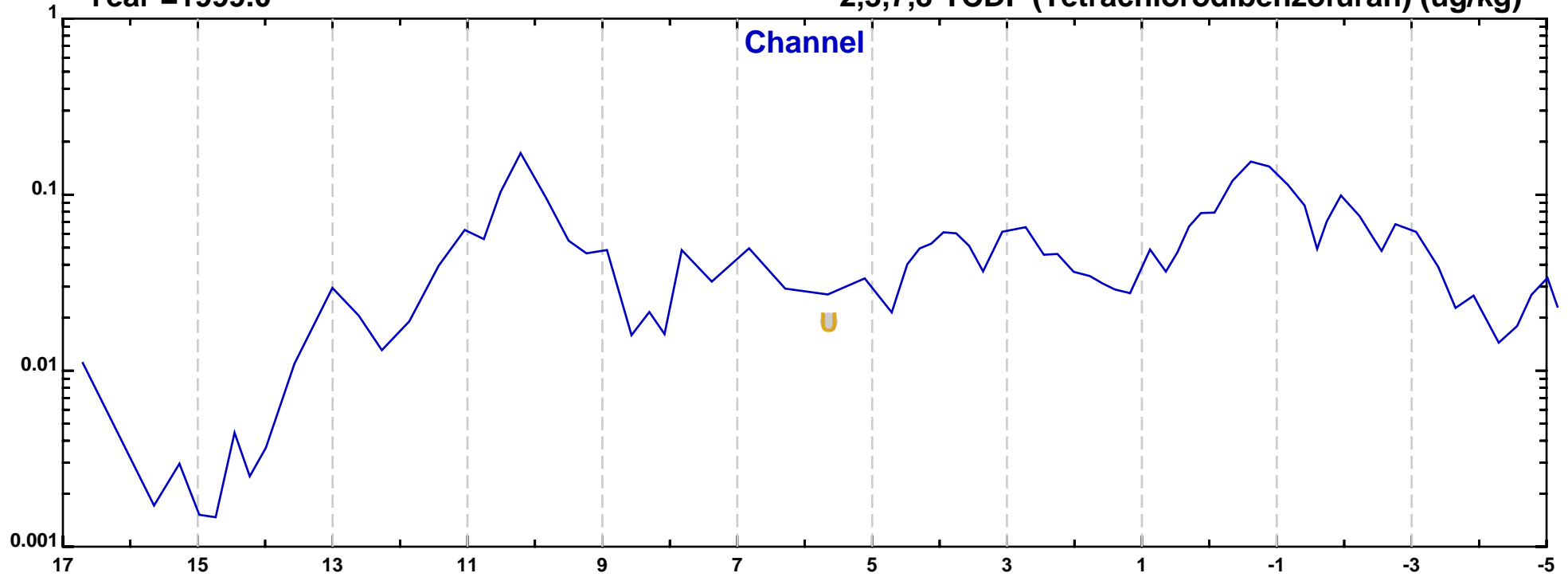
East Newark Bay shoal



Year = 1999.0

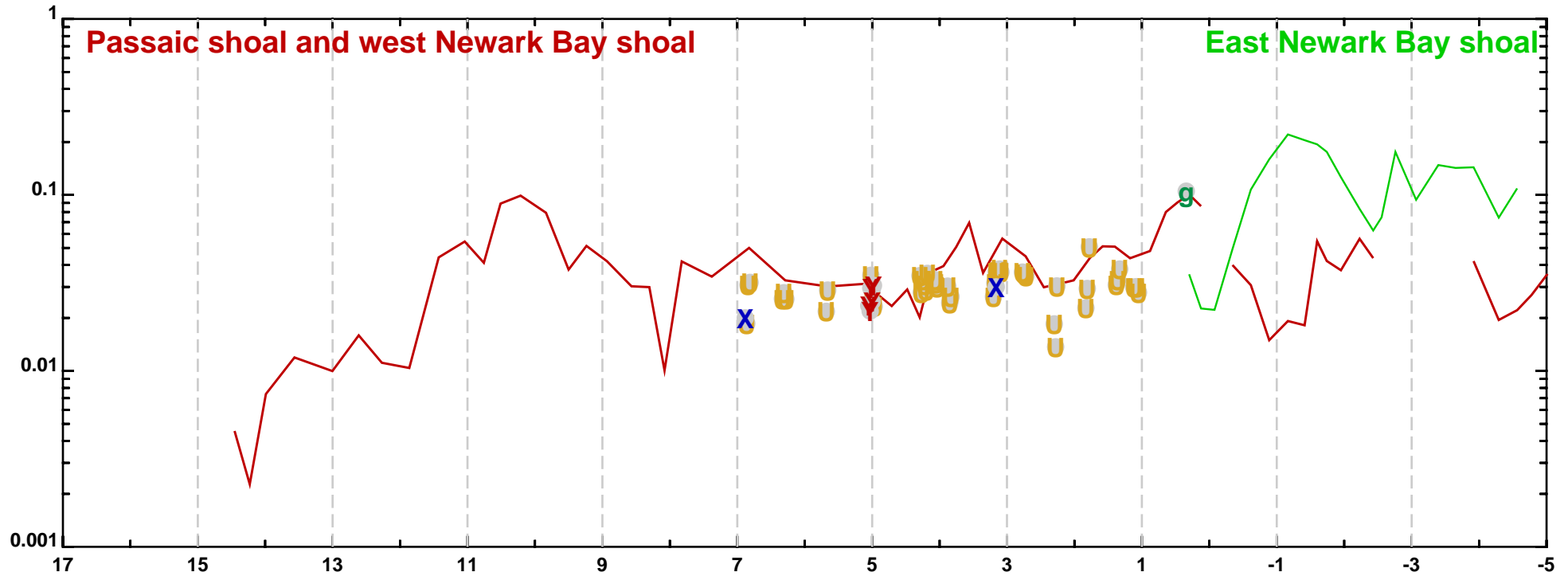
2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

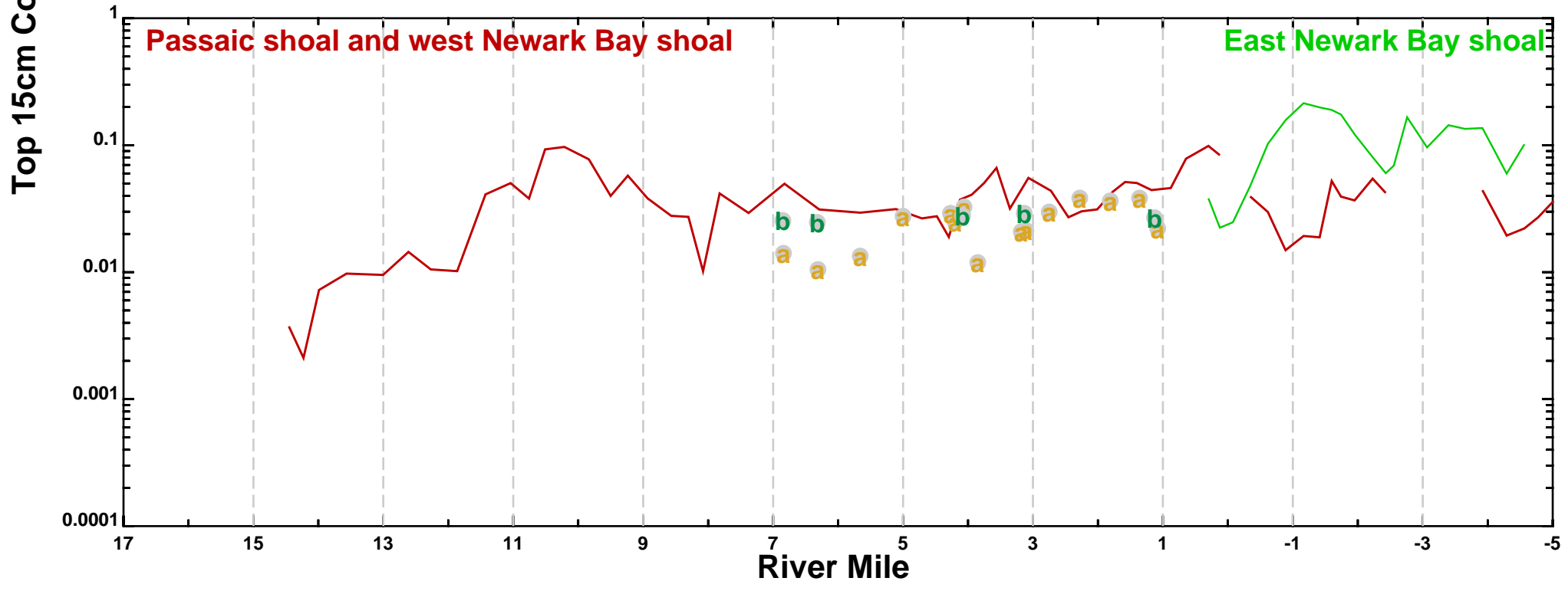
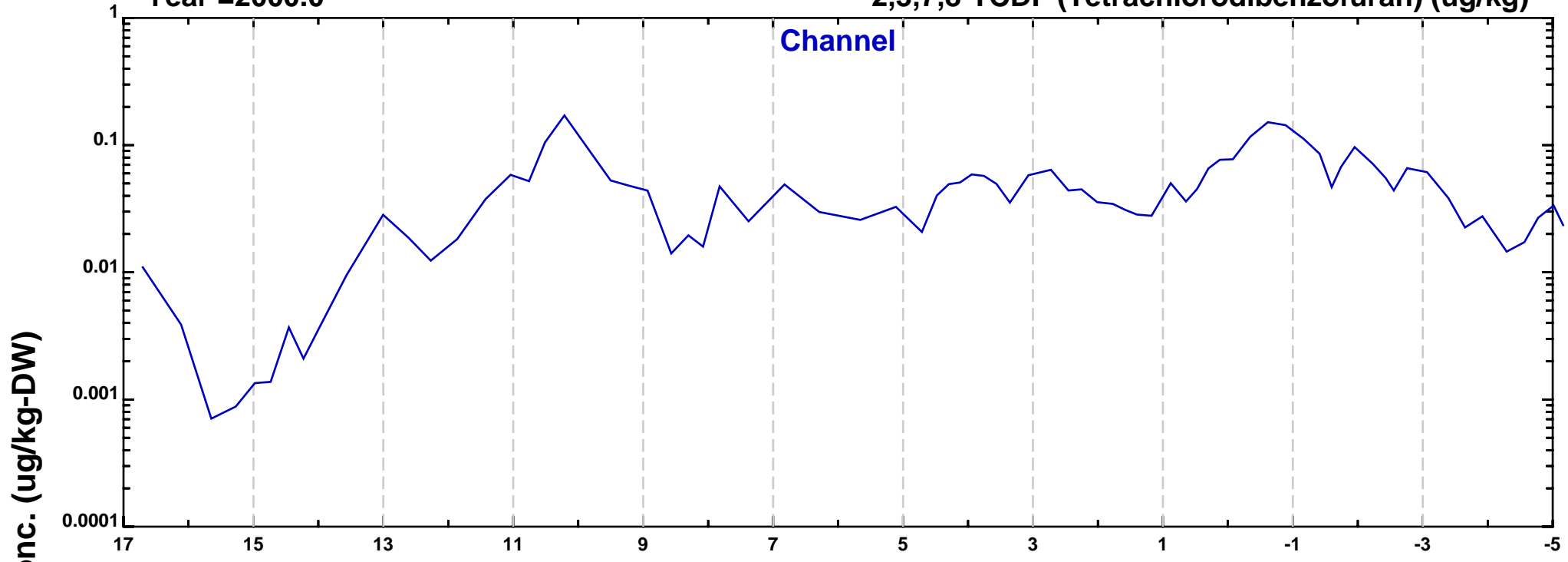
East Newark Bay shoal



River Mile

Year =2000.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)



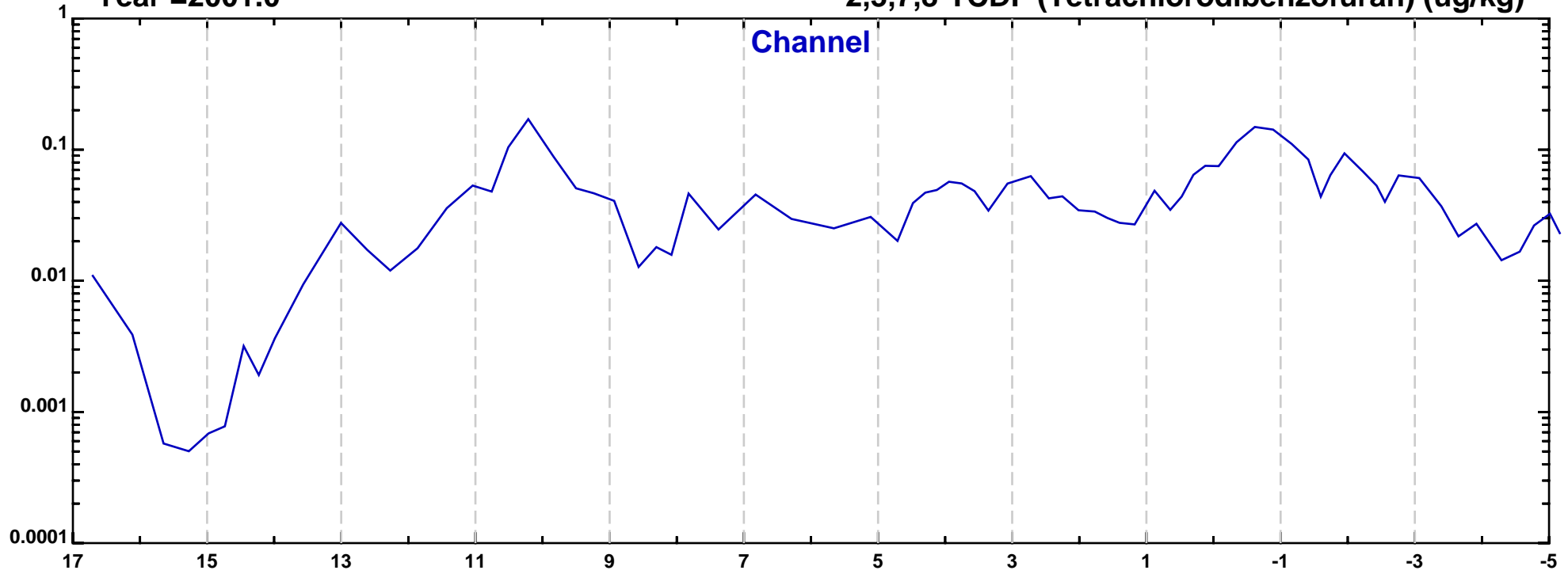
River Mile

Year =2001.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

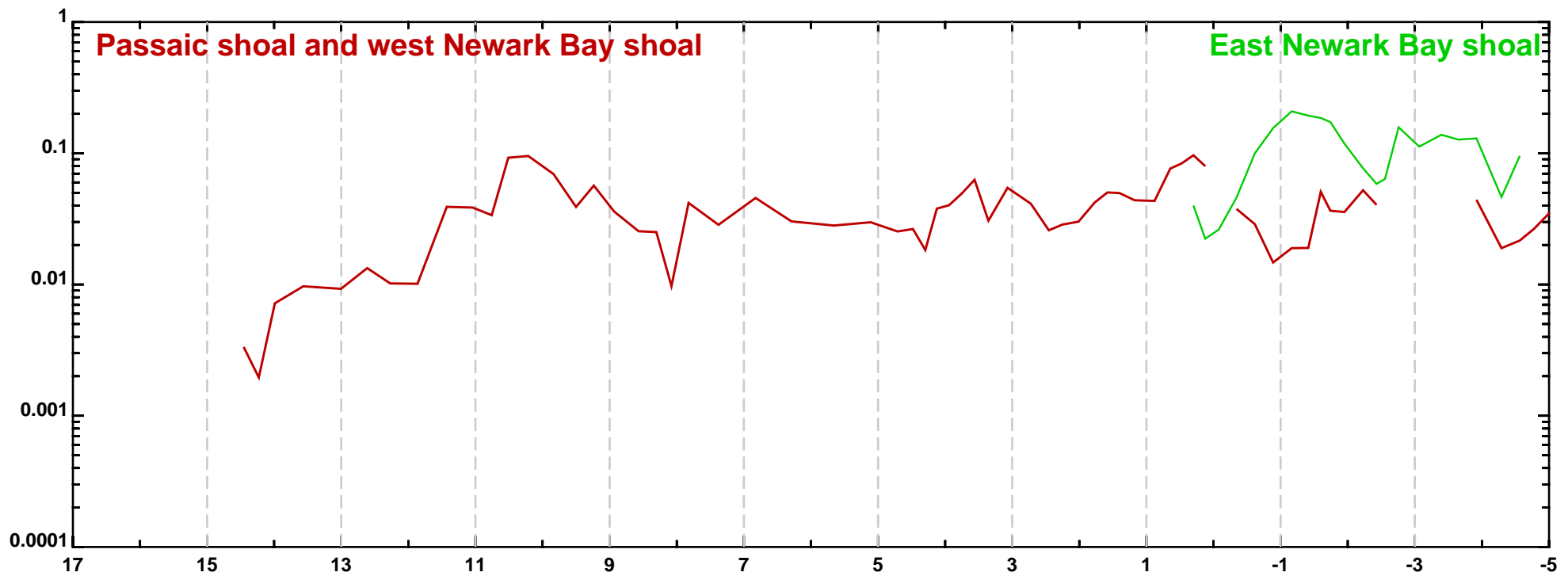
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

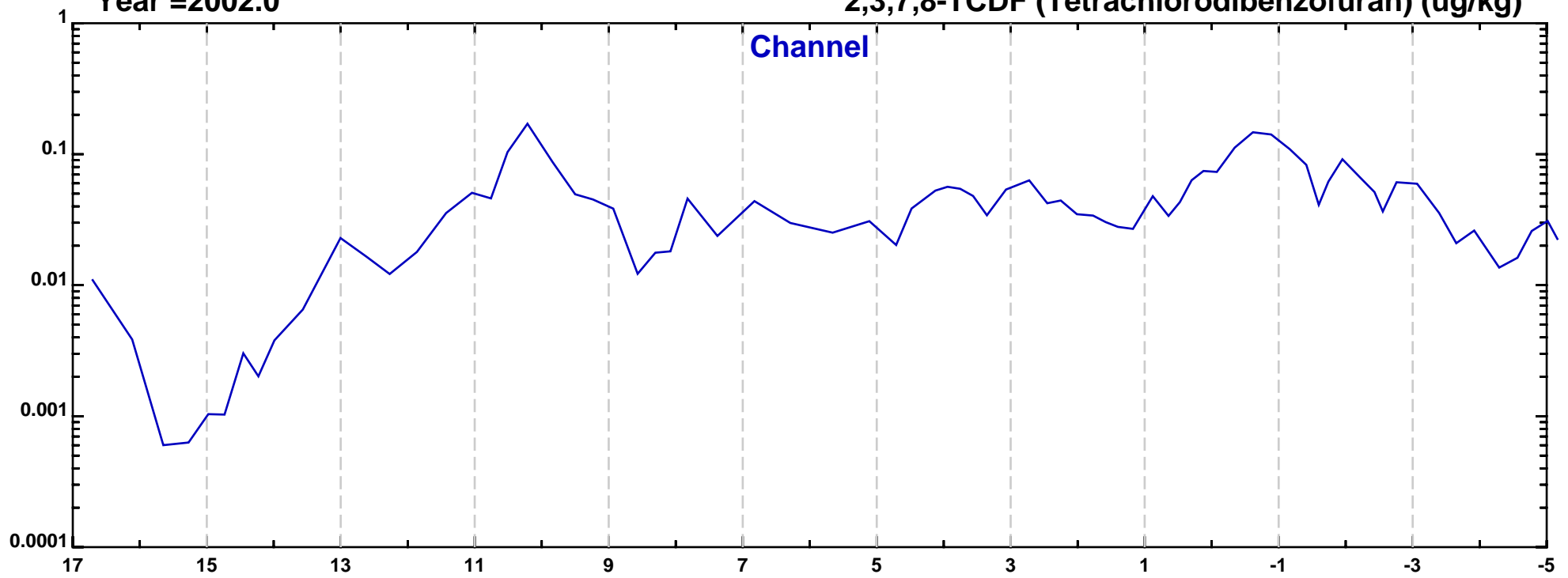


Year =2002.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

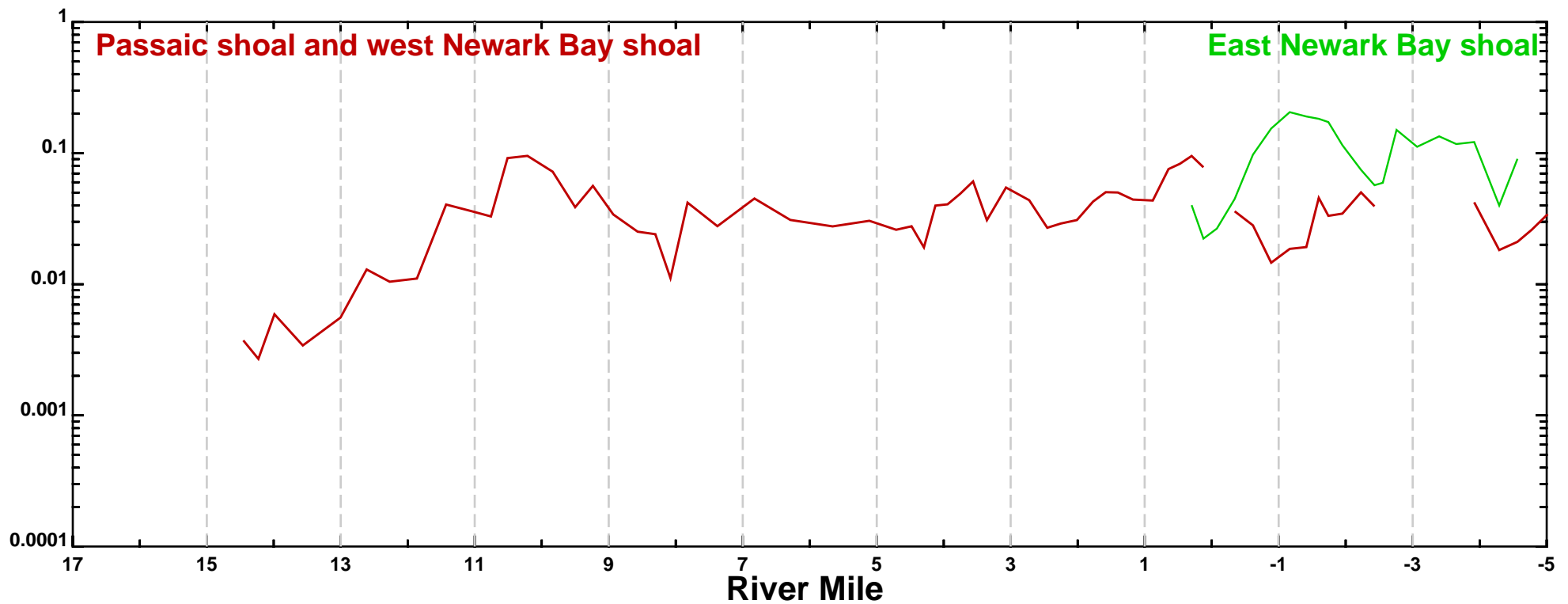
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



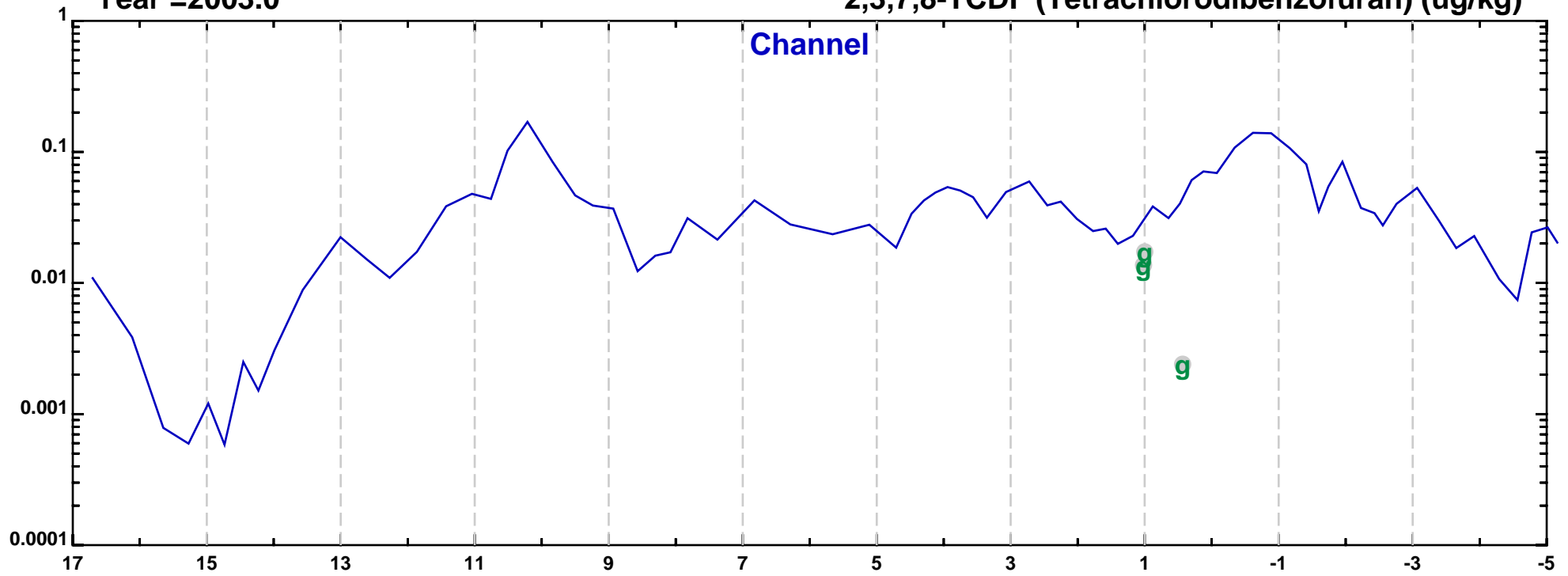
River Mile

Year =2003.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

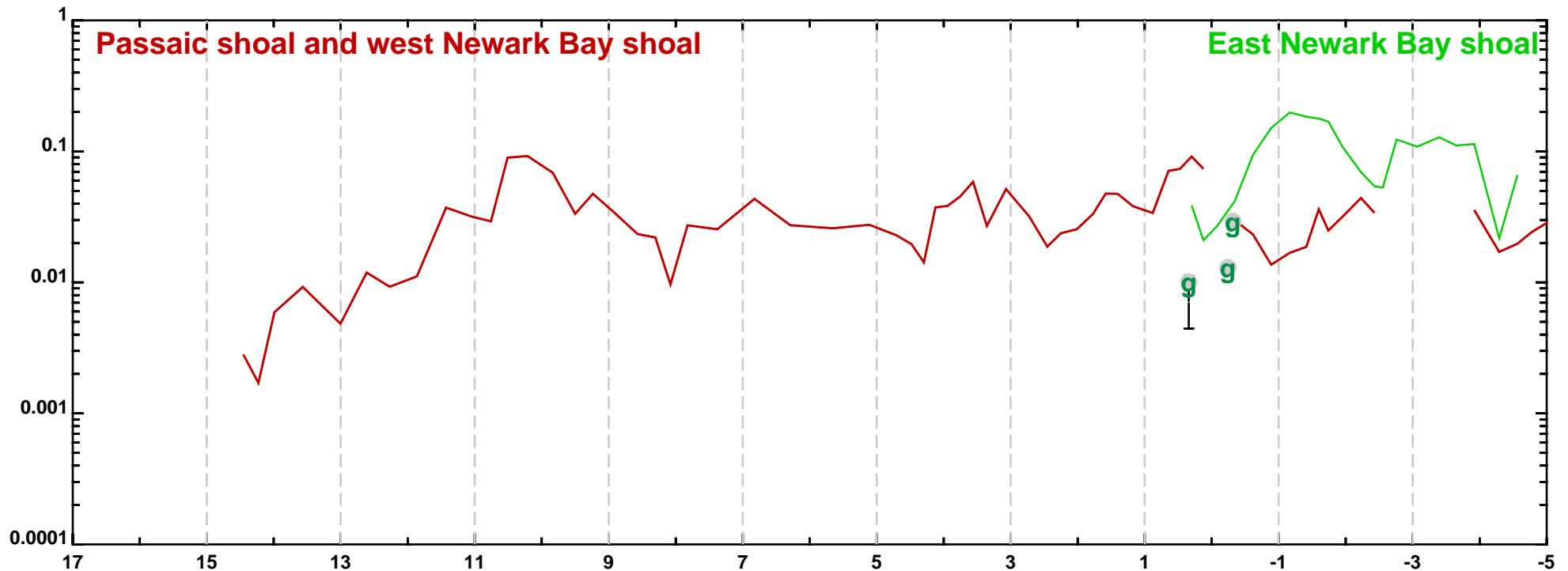
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

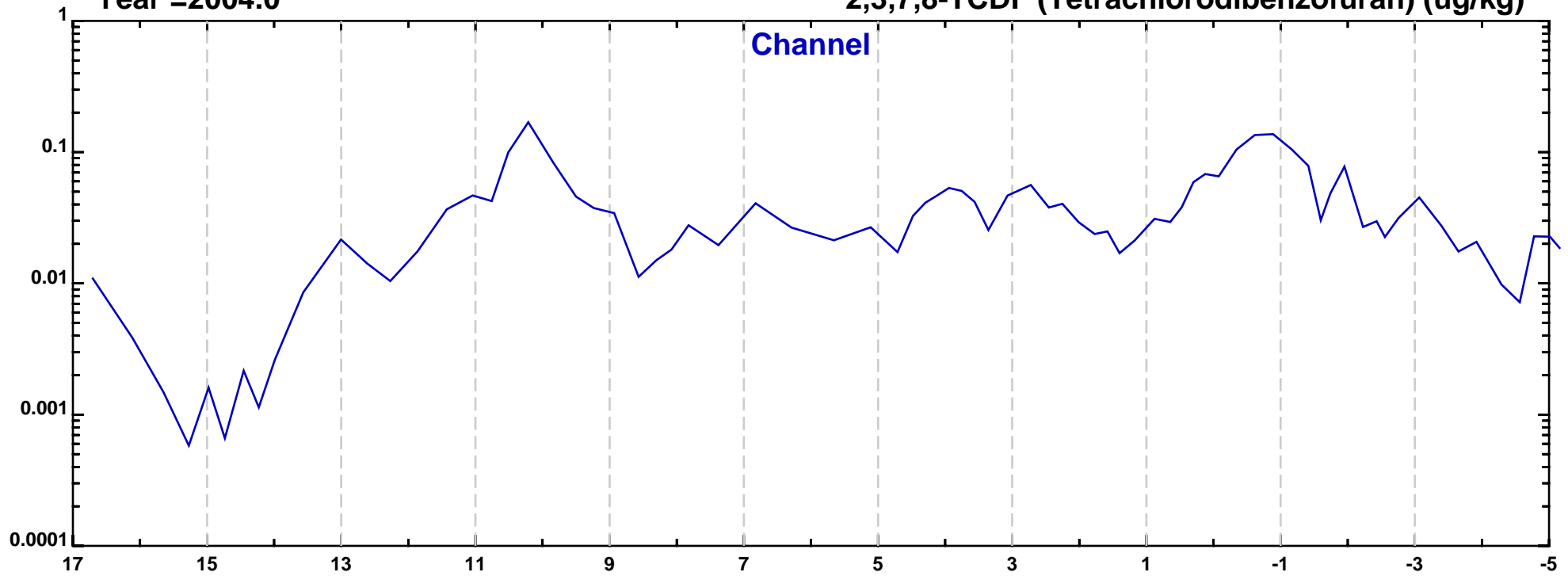


Year =2004.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

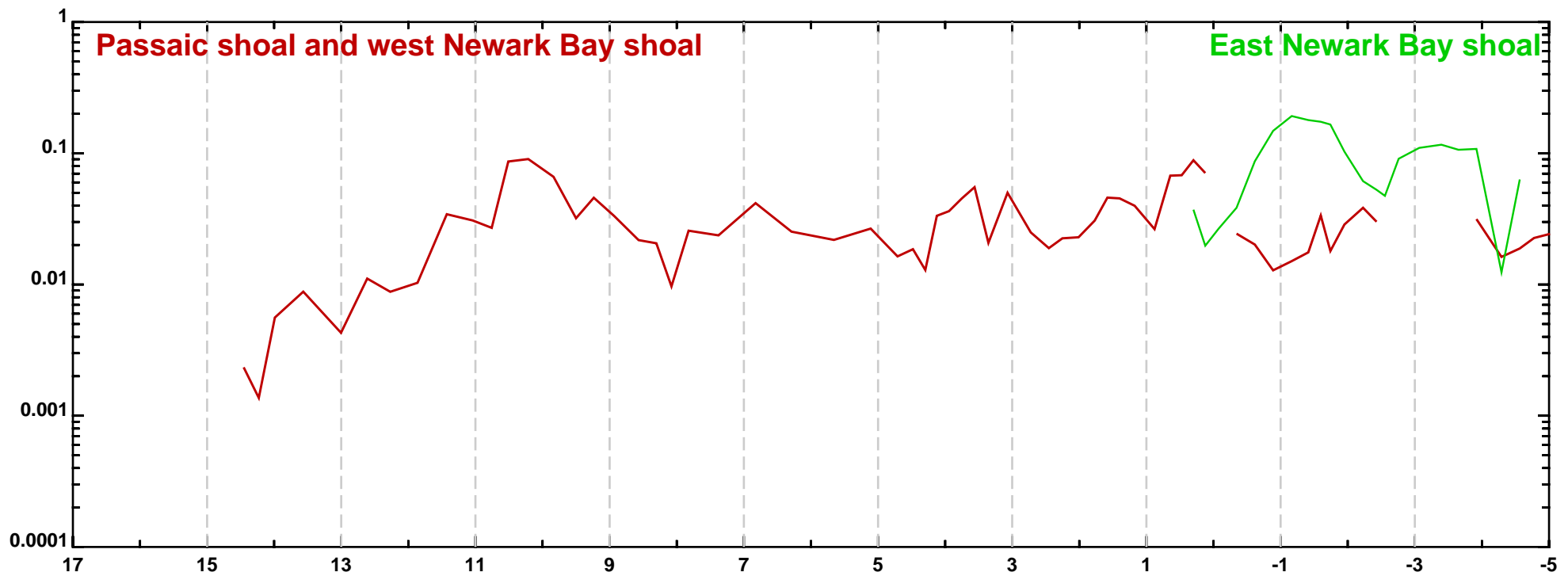
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

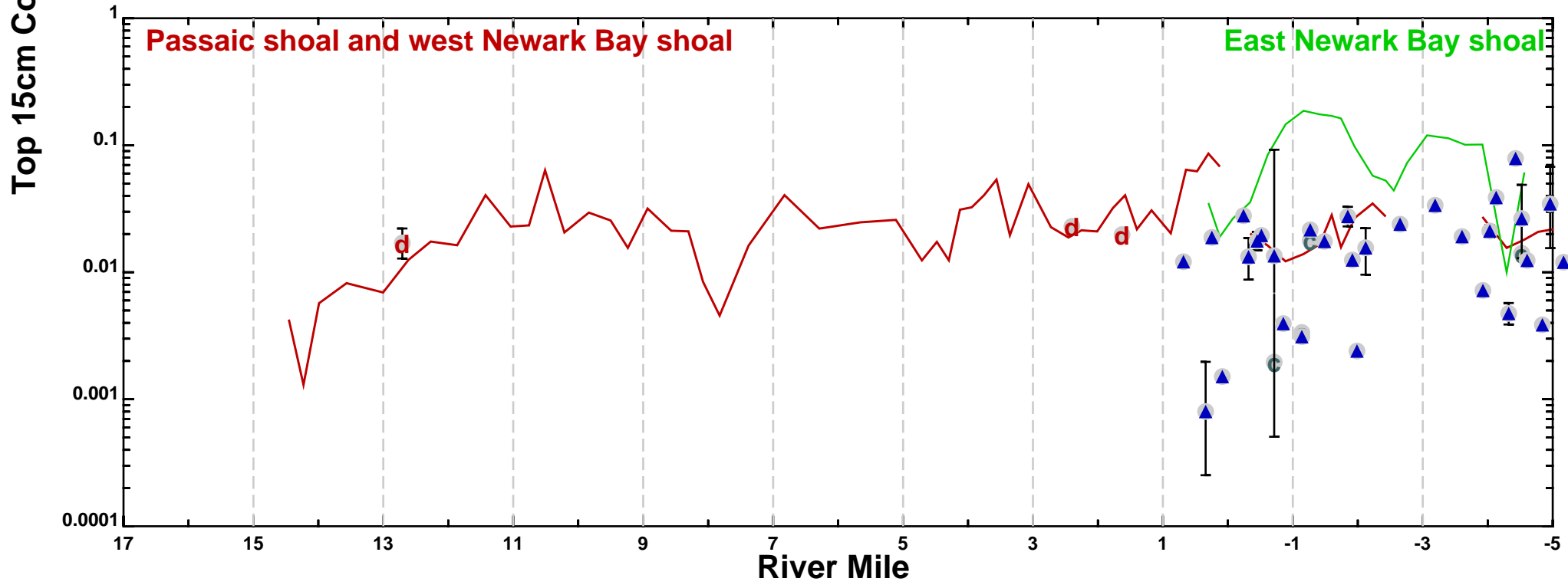
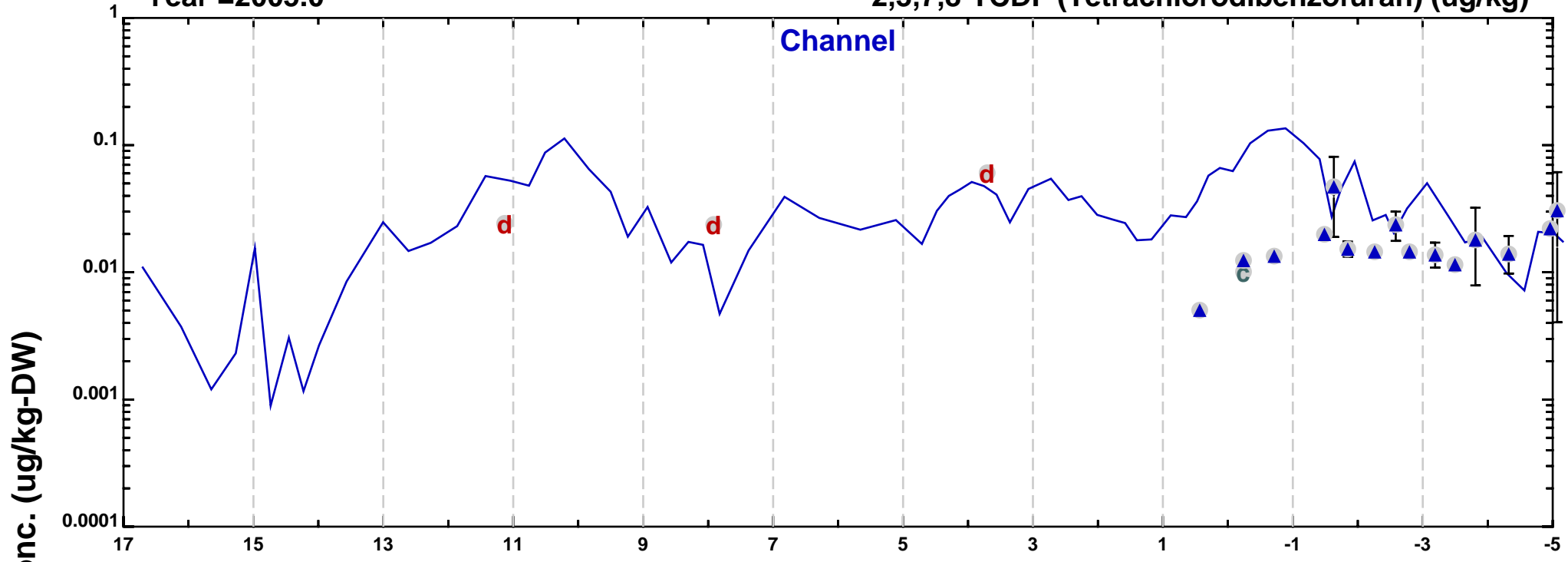
East Newark Bay shoal



River Mile

Year =2005.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

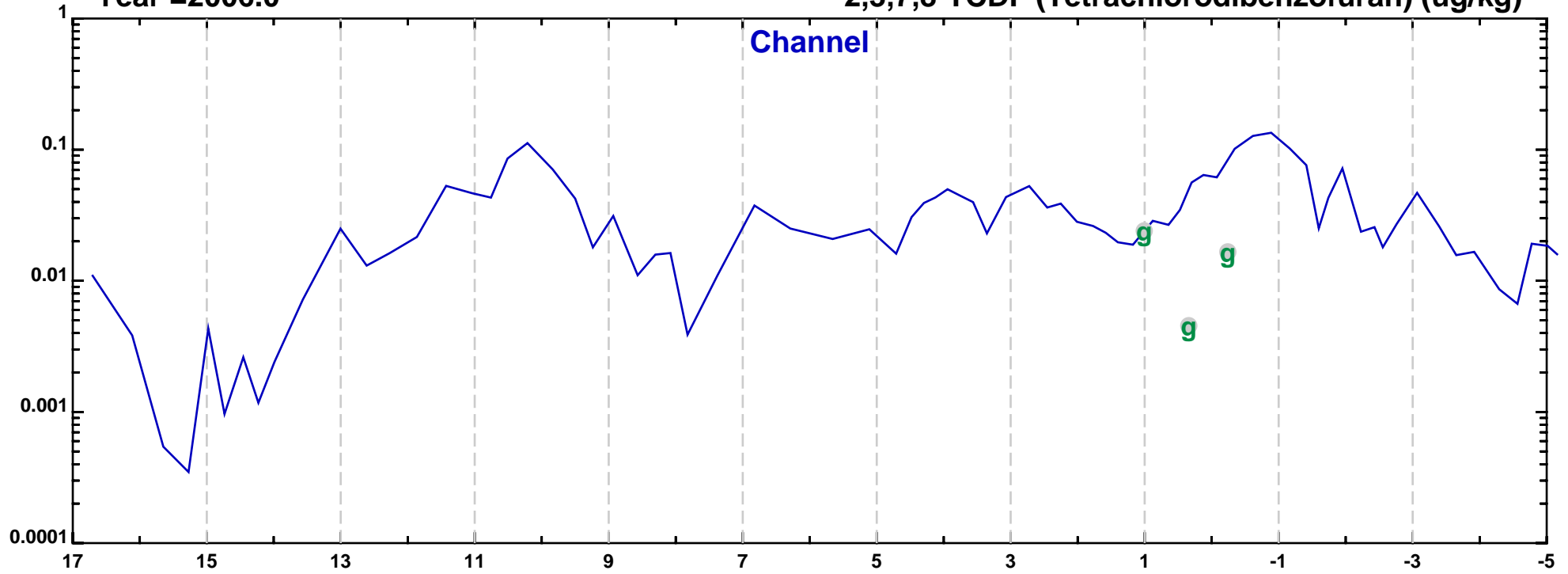


Year =2006.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

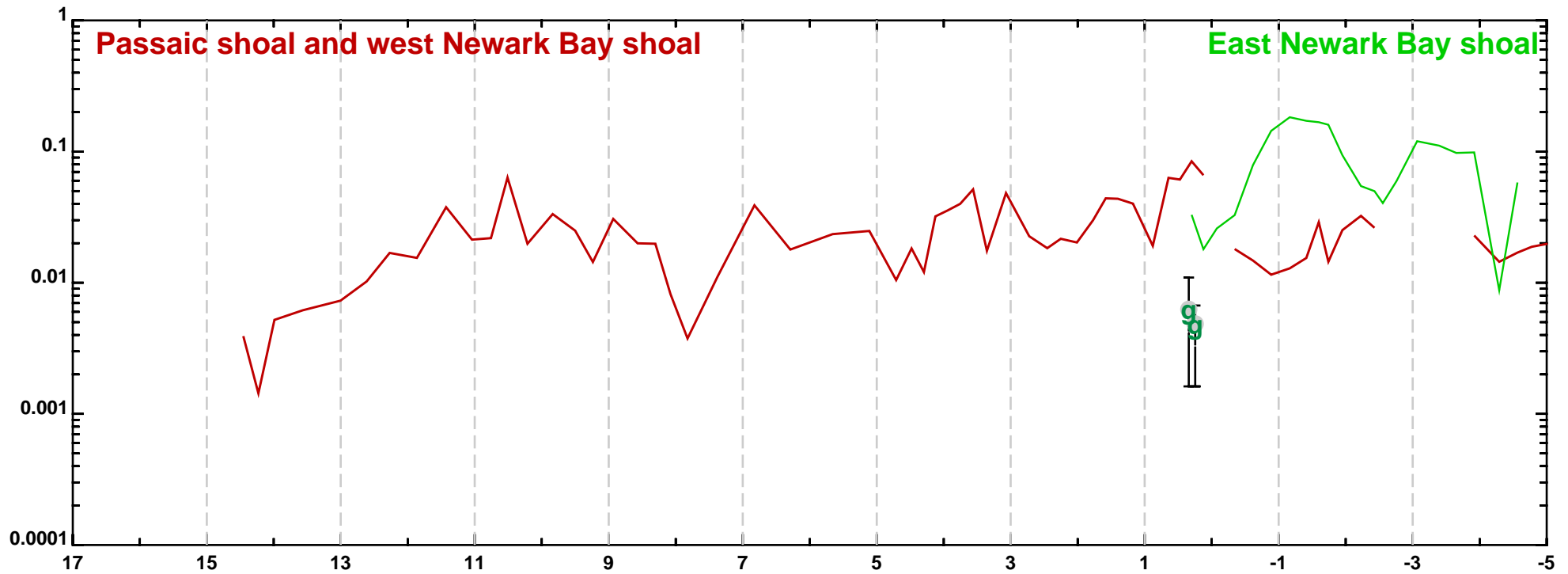
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



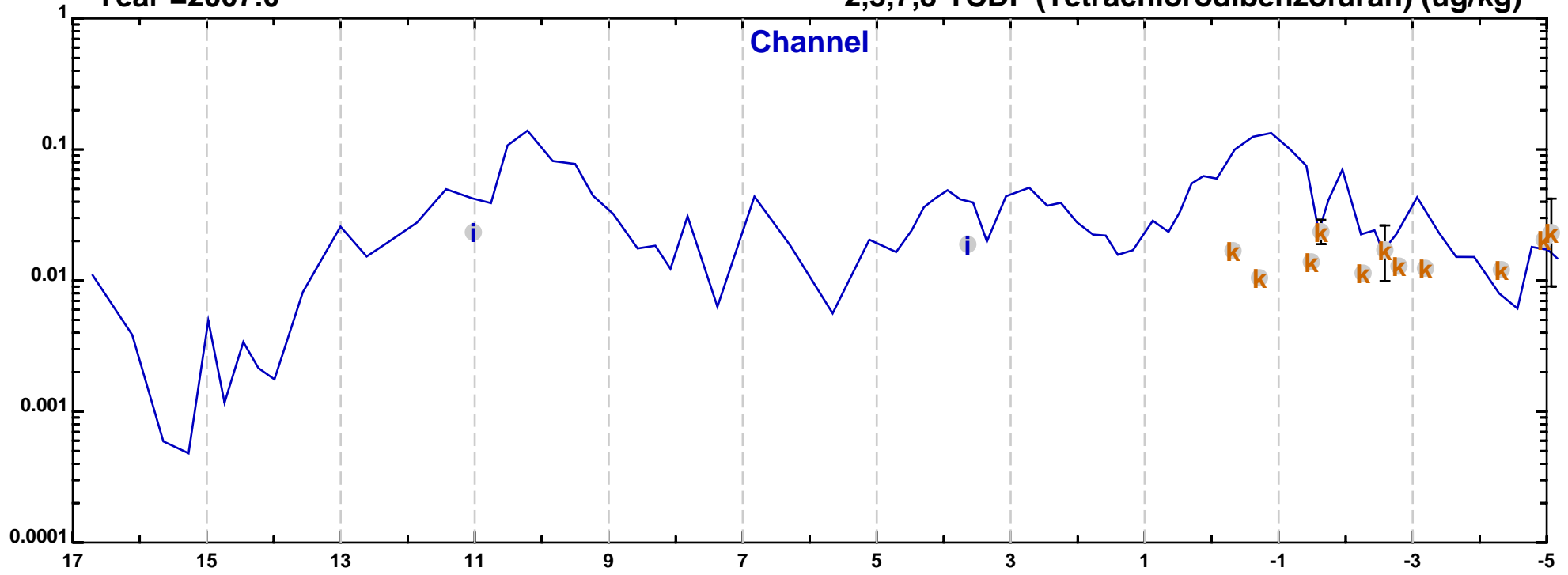
River Mile

Year =2007.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

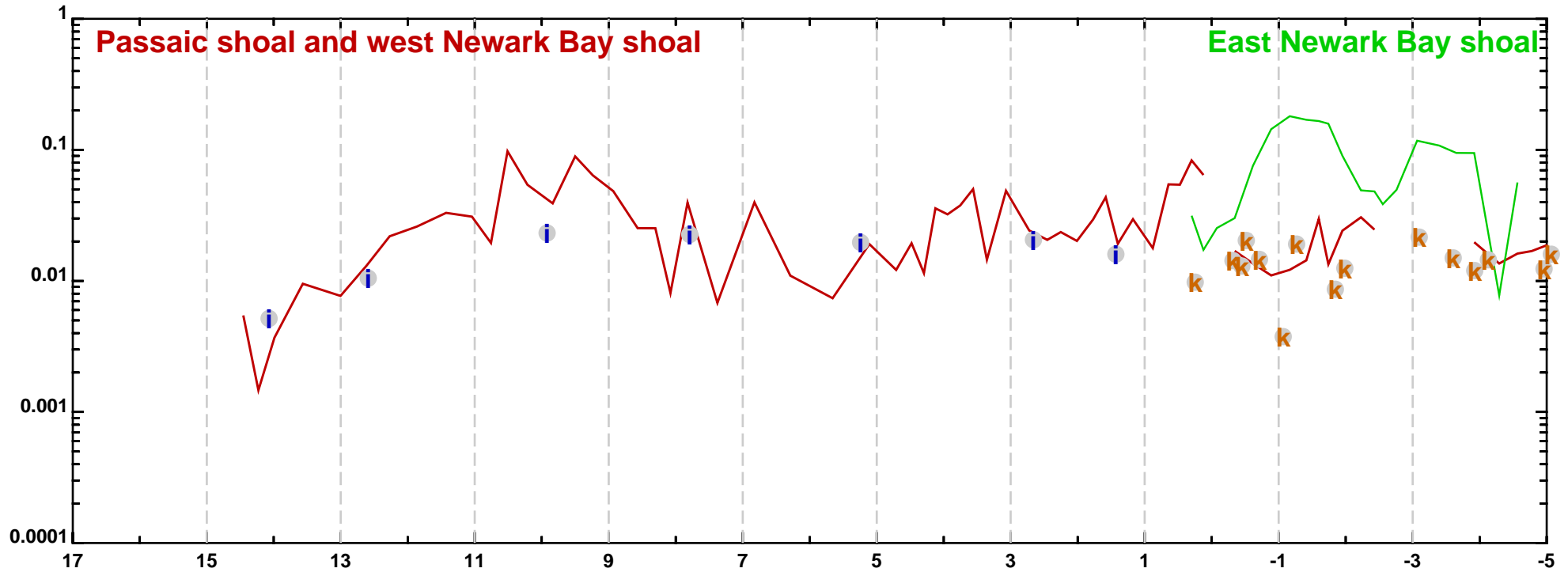
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

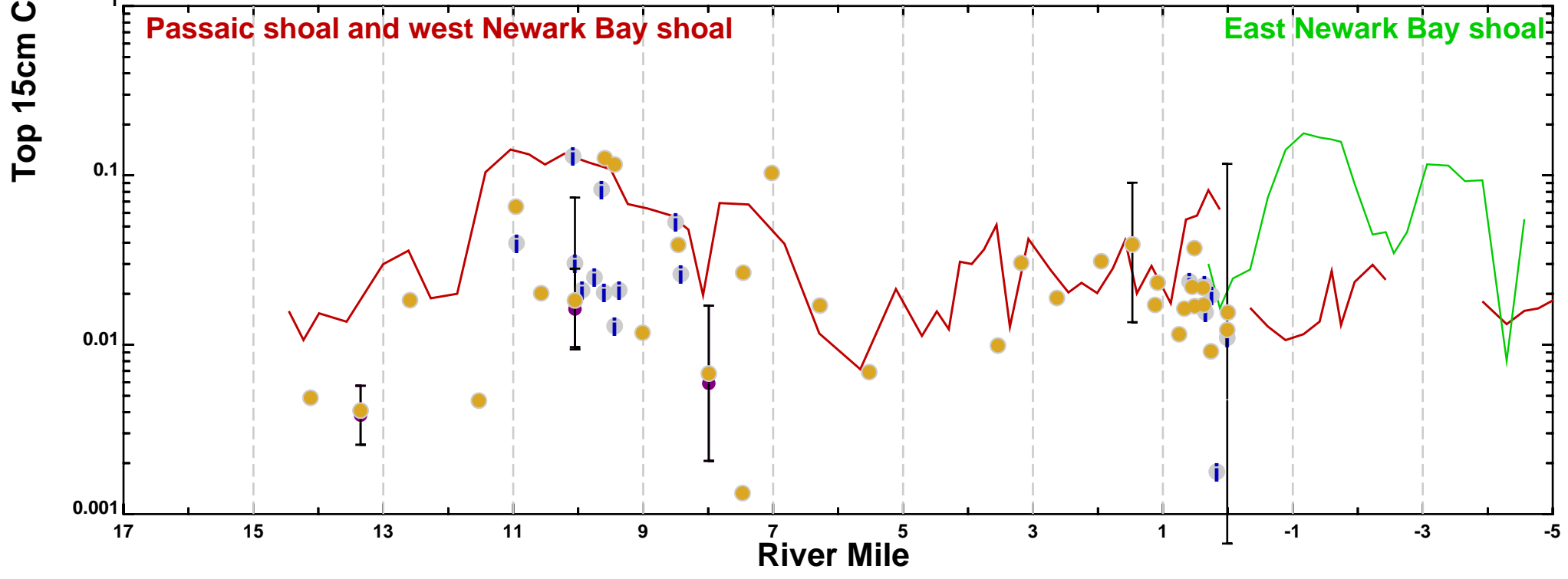
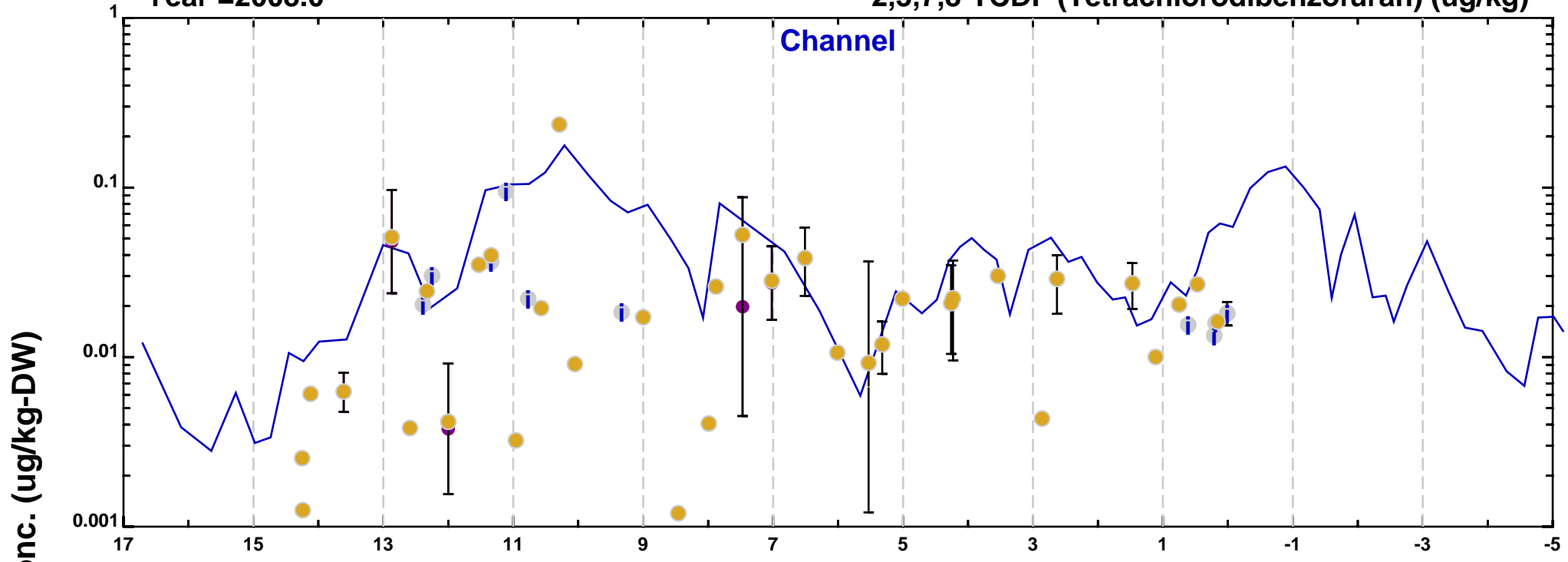
East Newark Bay shoal



River Mile

Year =2008.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

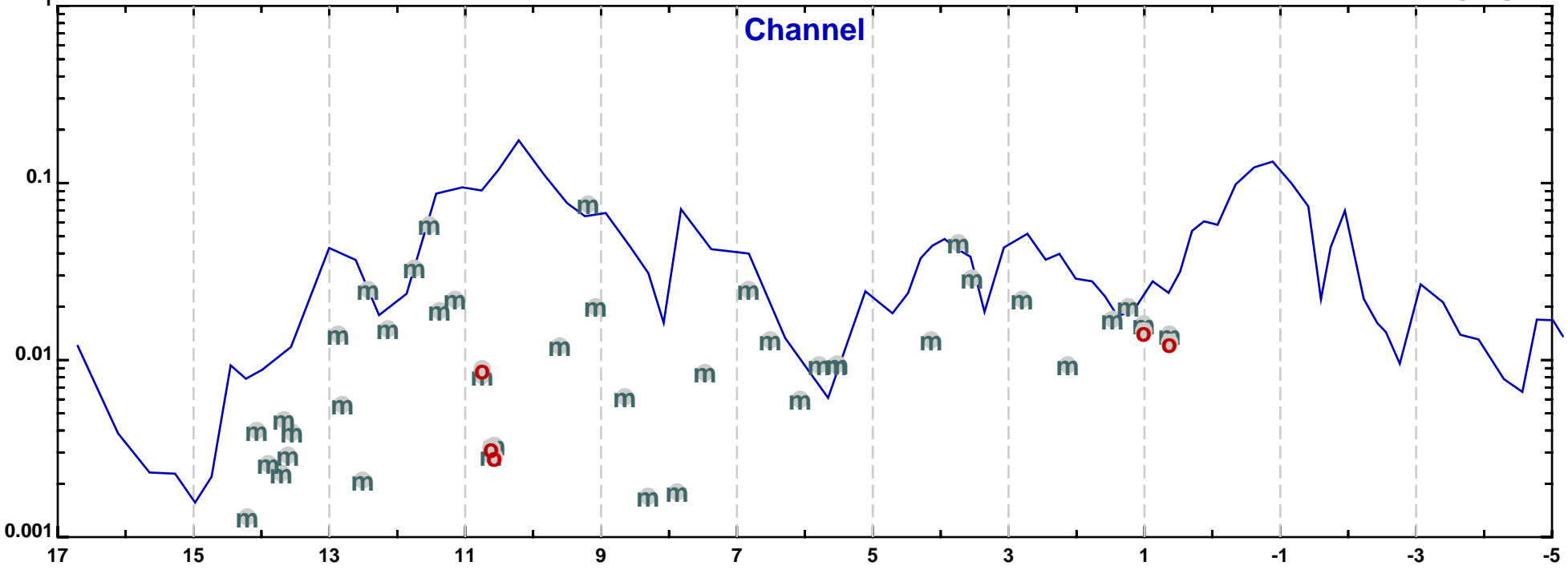


Year =2009.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

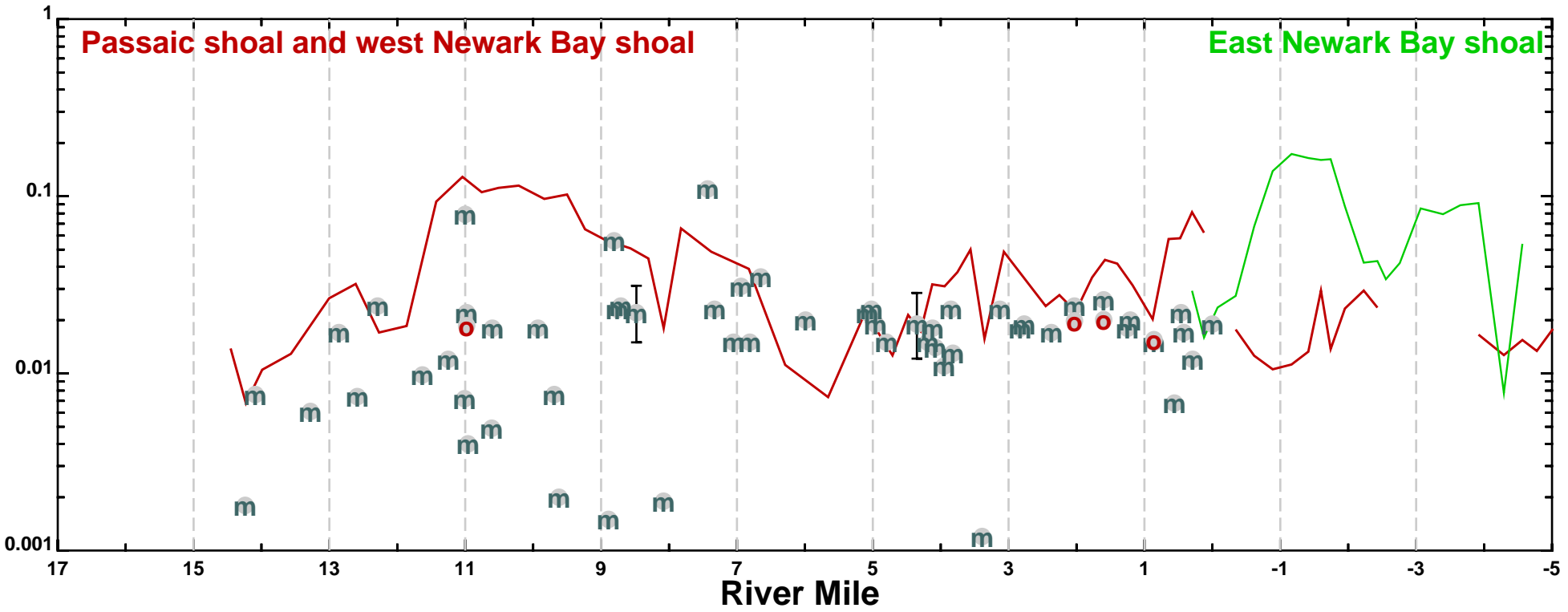
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

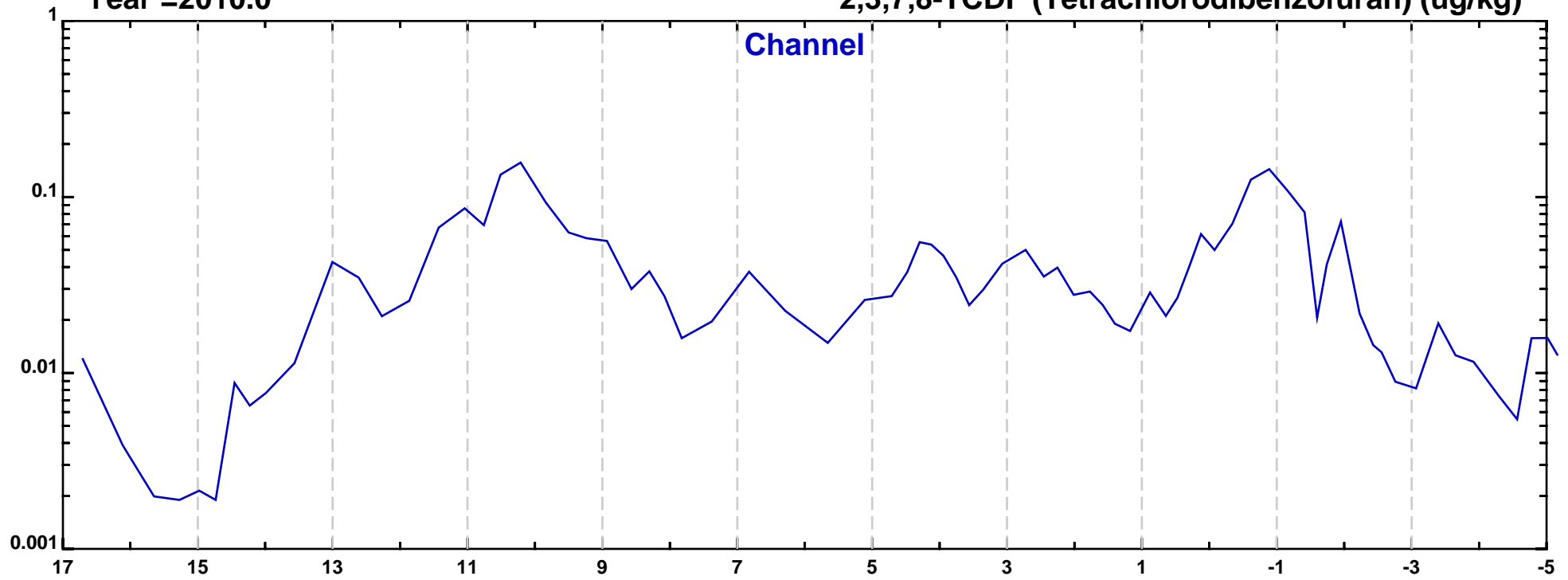


Year =2010.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

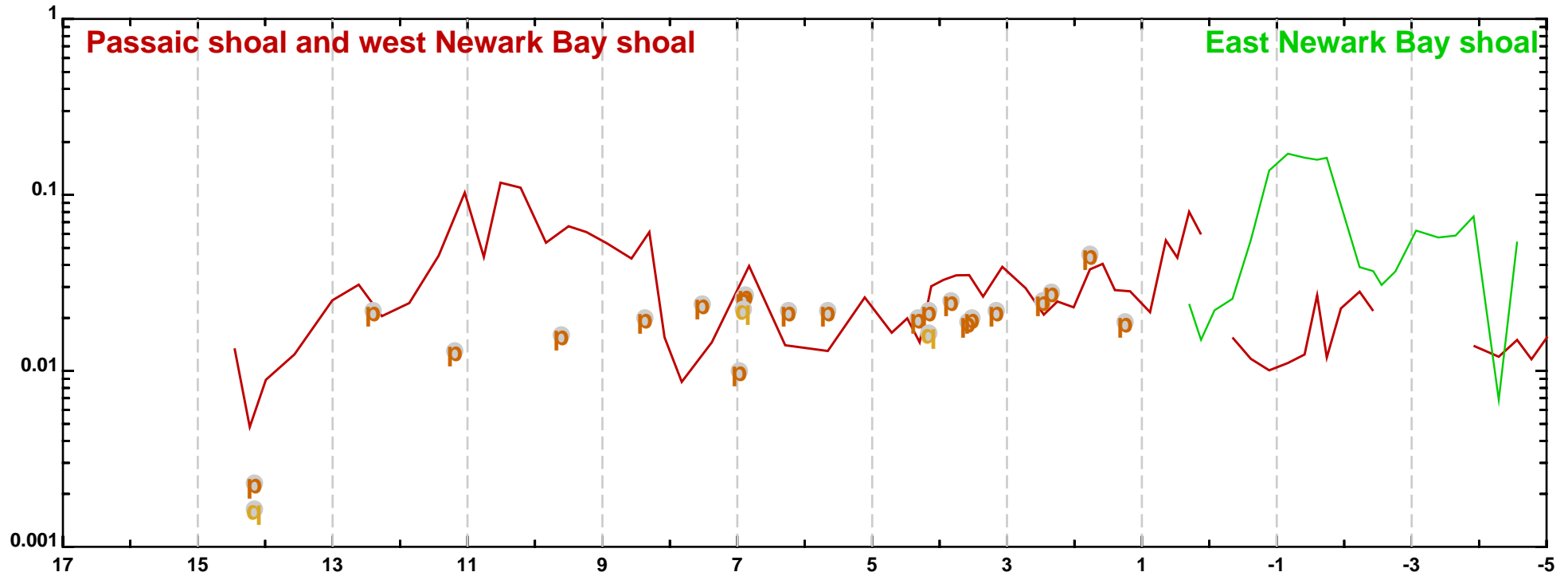
Top 15cm Conc. (ug/kg-DW)

Channel

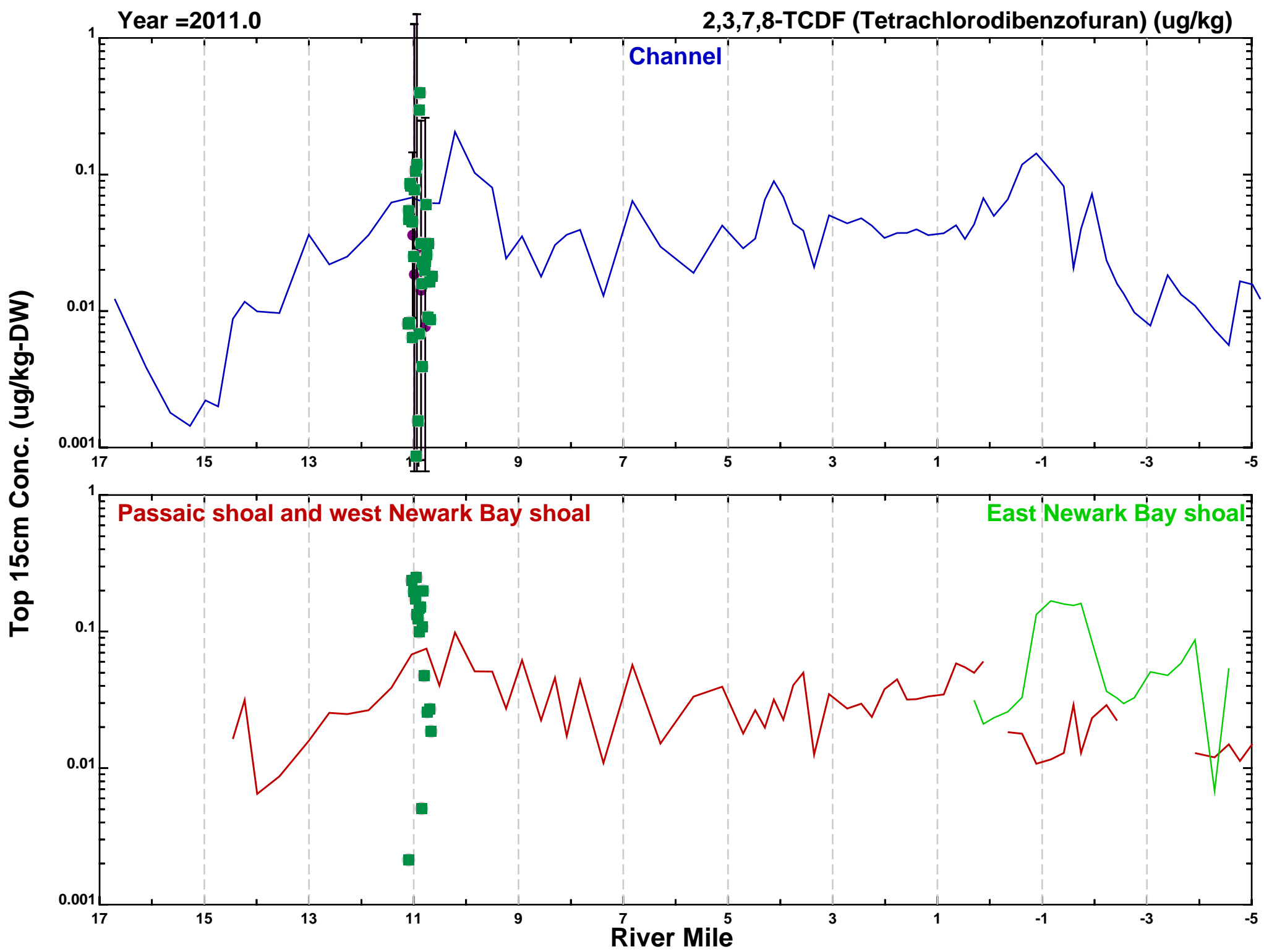


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

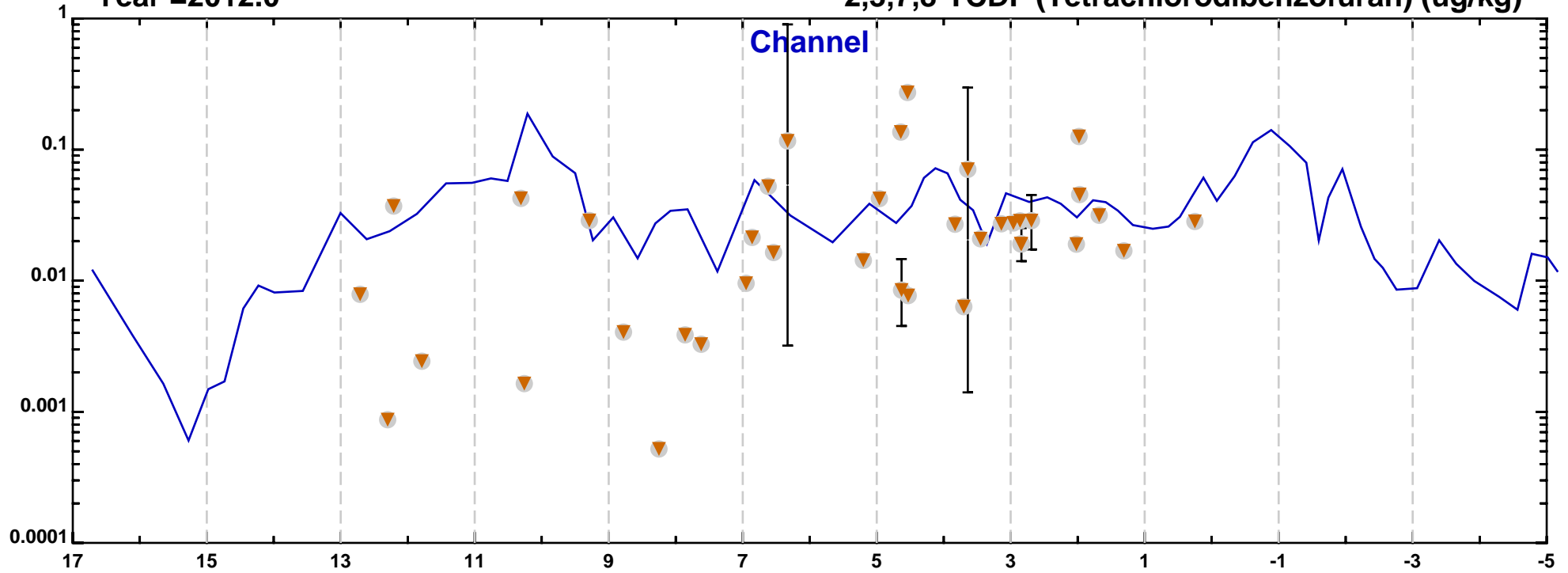




Year =2012.0

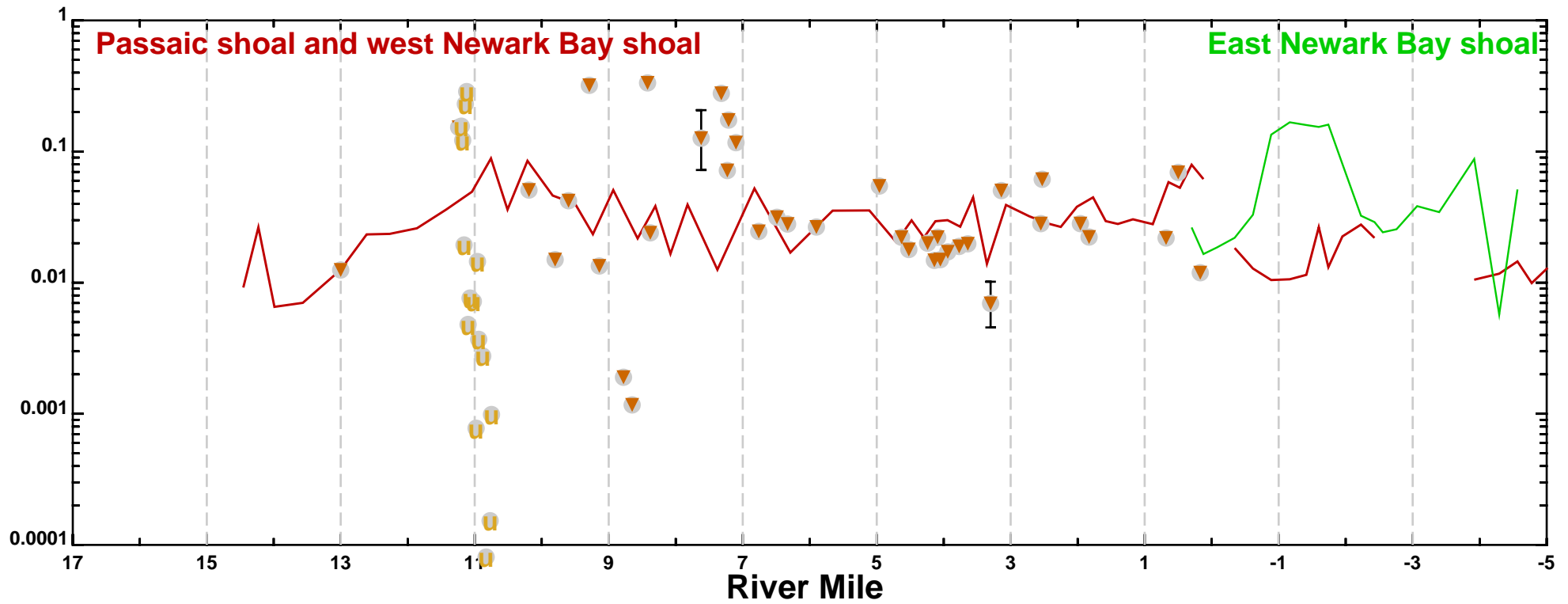
2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

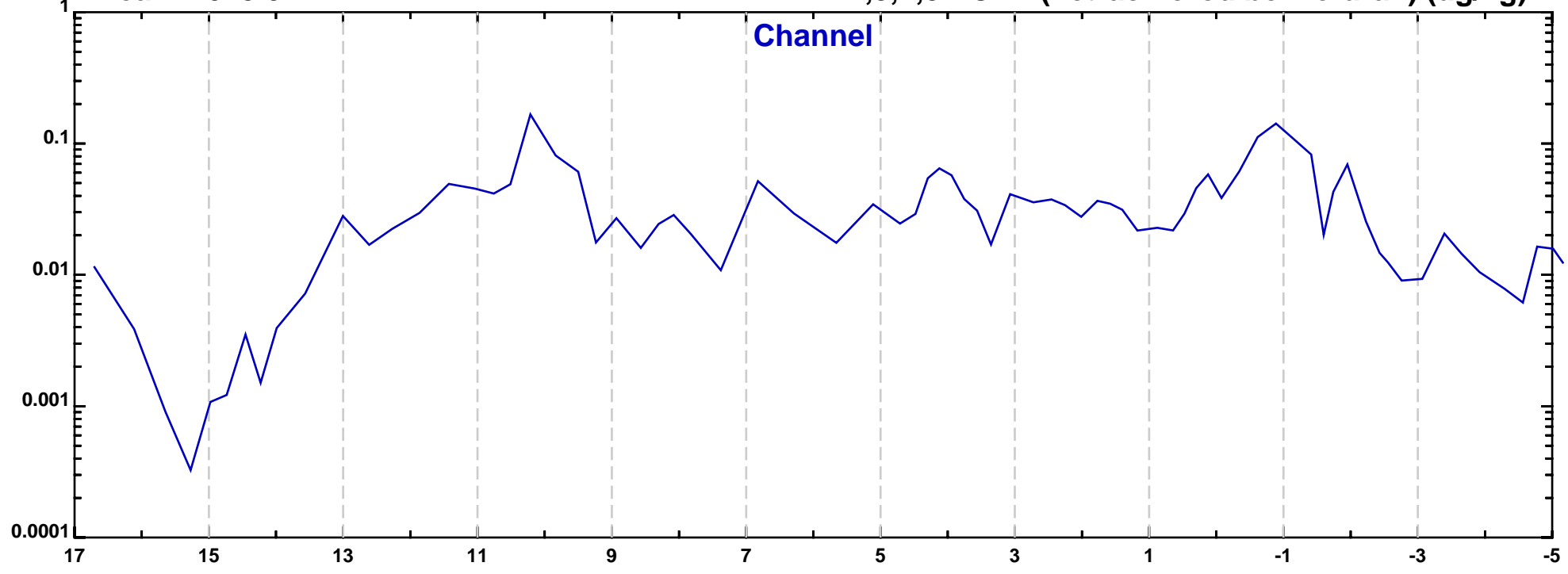


Year =2013.0

2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg)

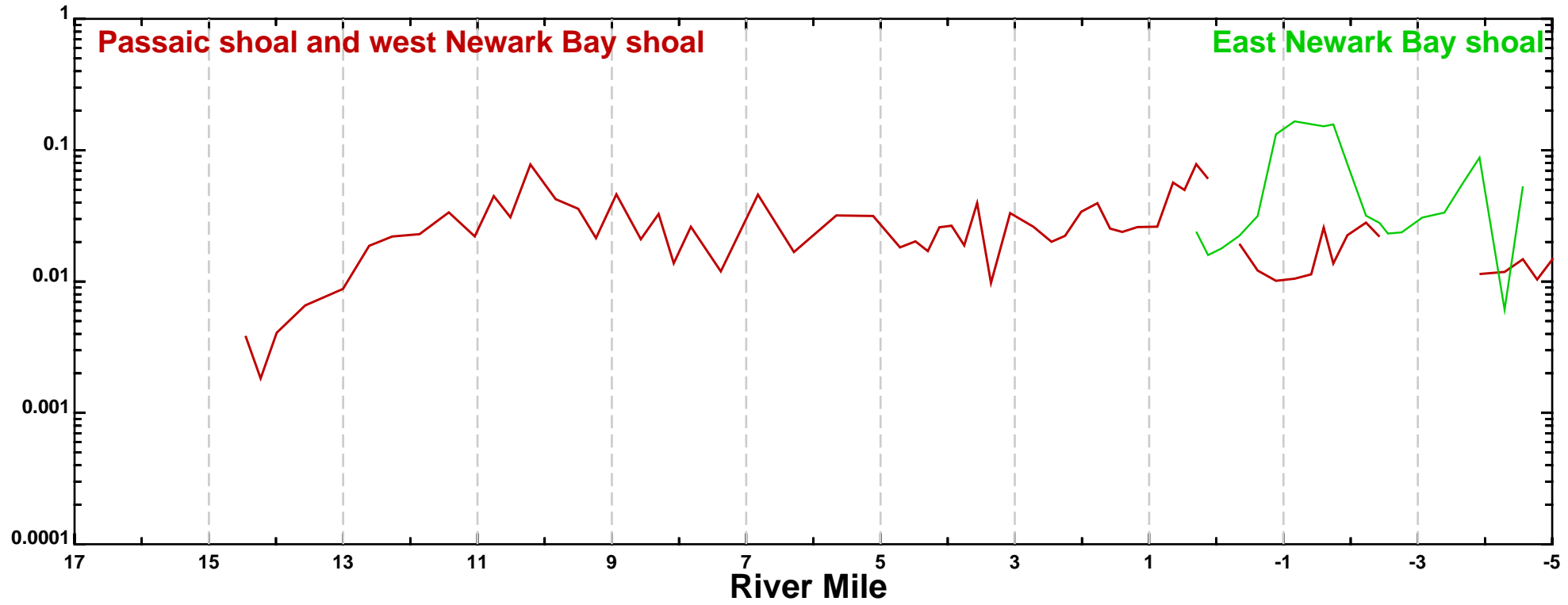
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



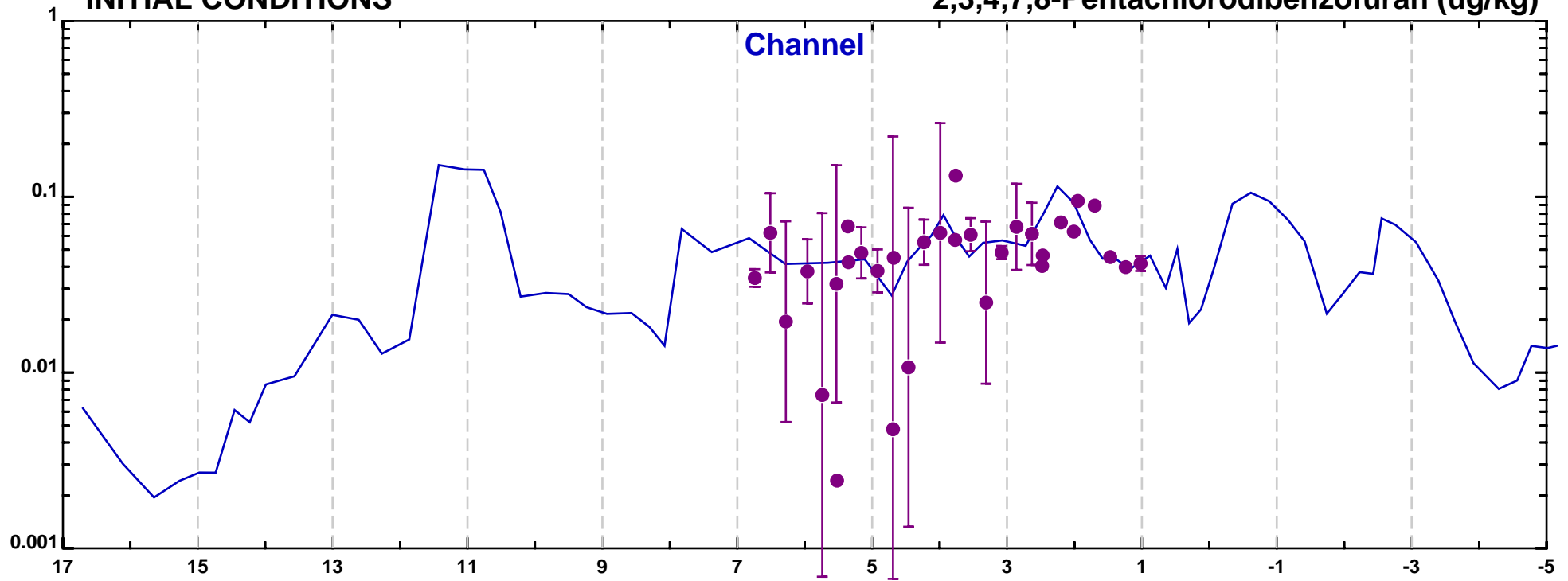
River Mile

**INITIAL CONDITIONS**

**2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)**

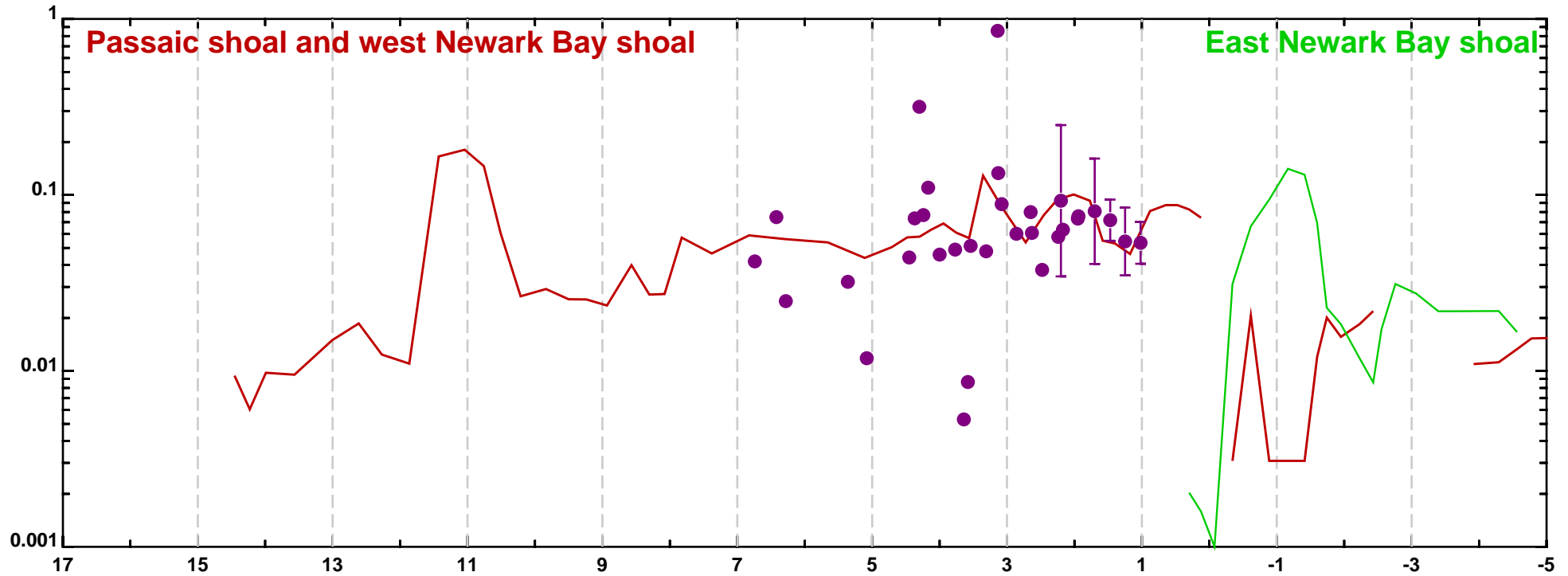
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



**River Mile**

Year =1996.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

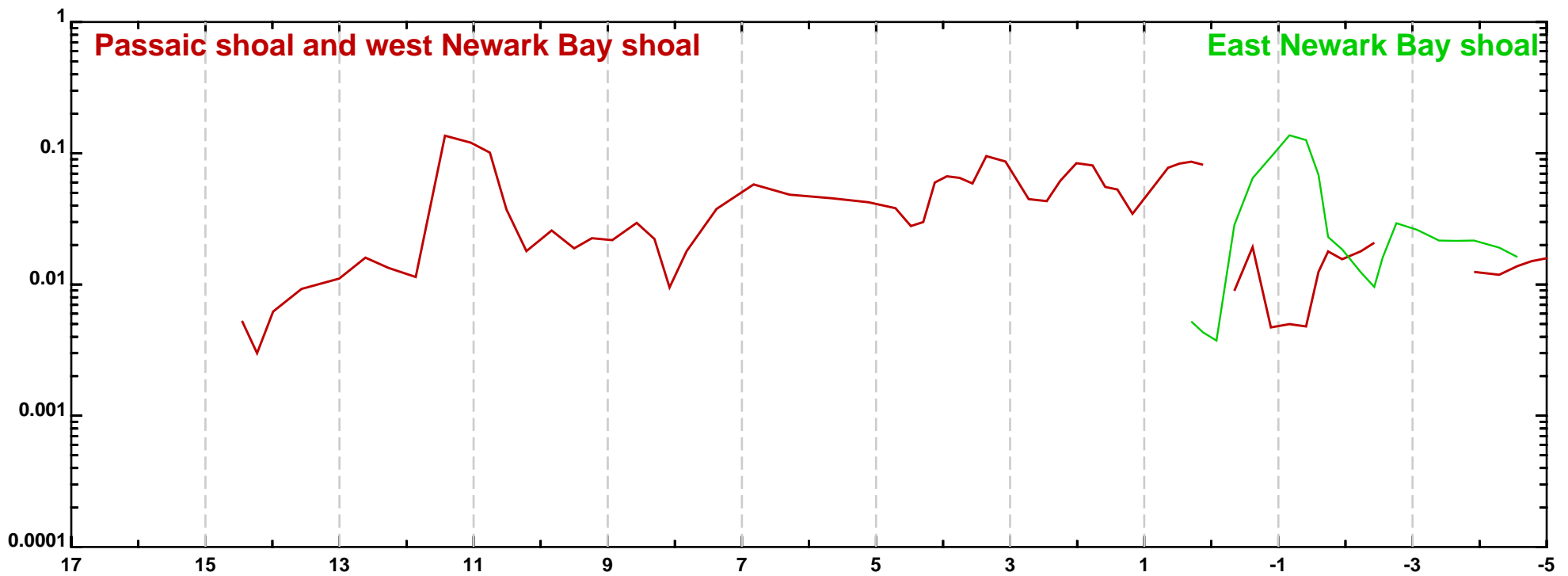
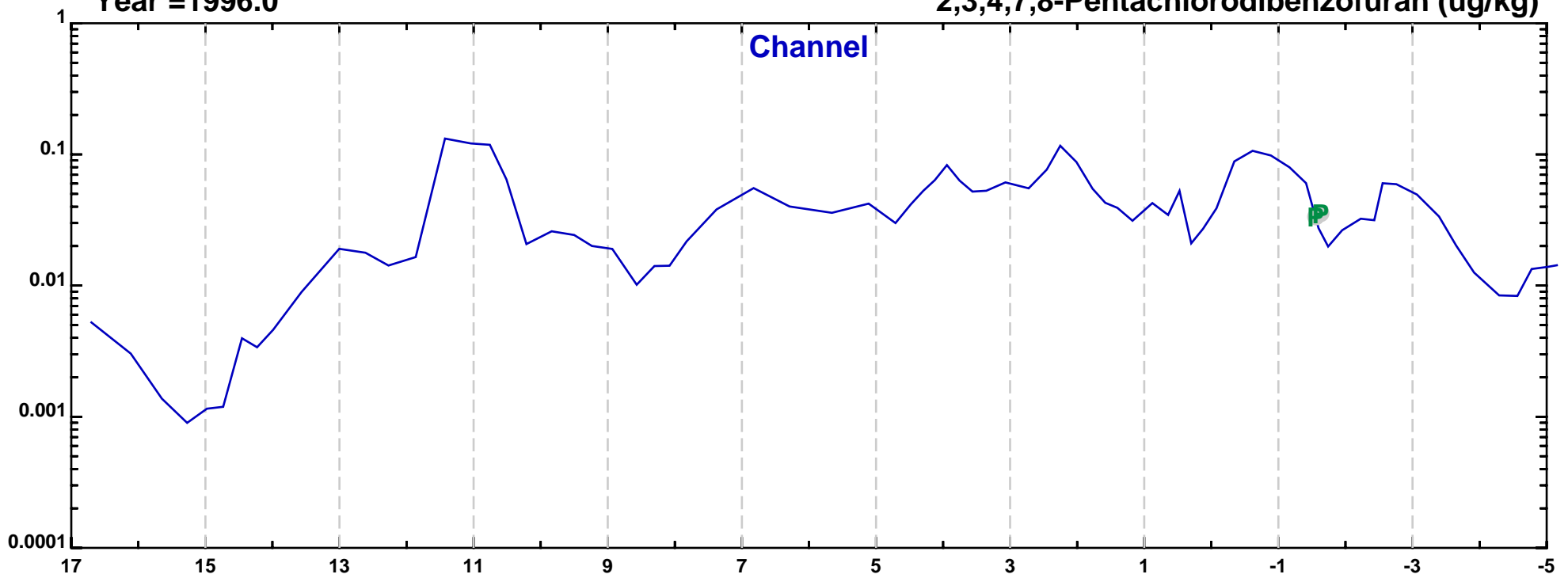
Top 15cm Conc. (ug/kg-DW)

Channel

East Newark Bay shoal

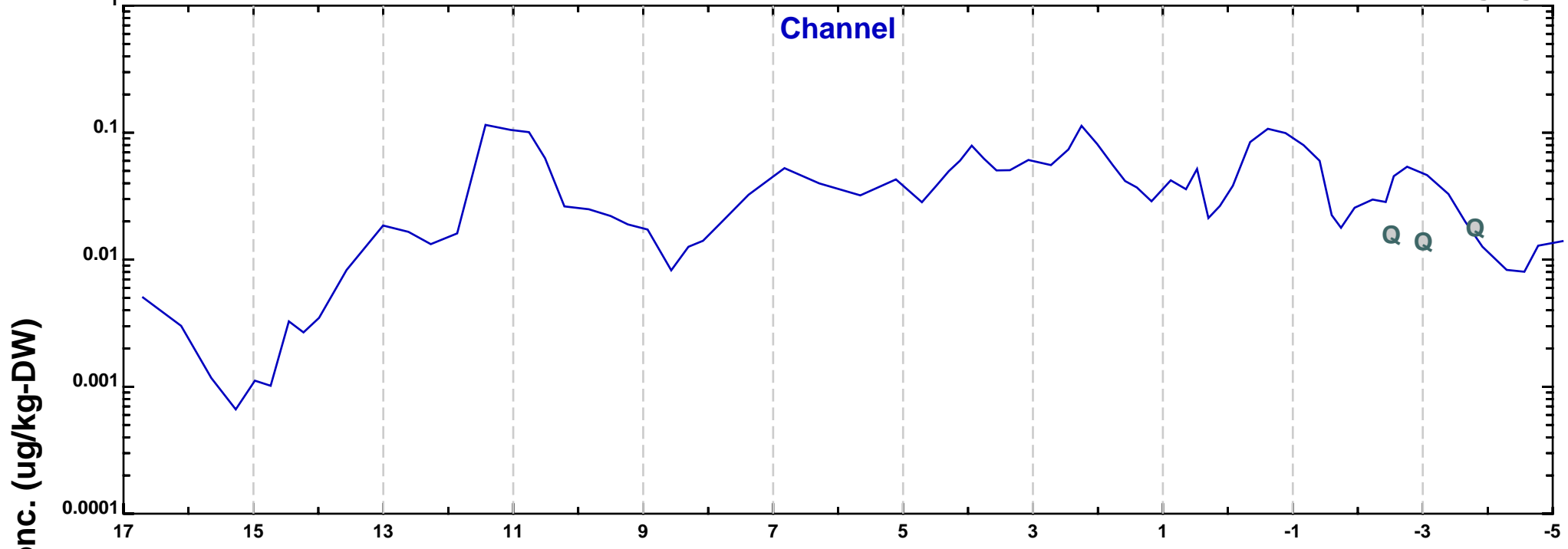
Passaic shoal and west Newark Bay shoal

River Mile



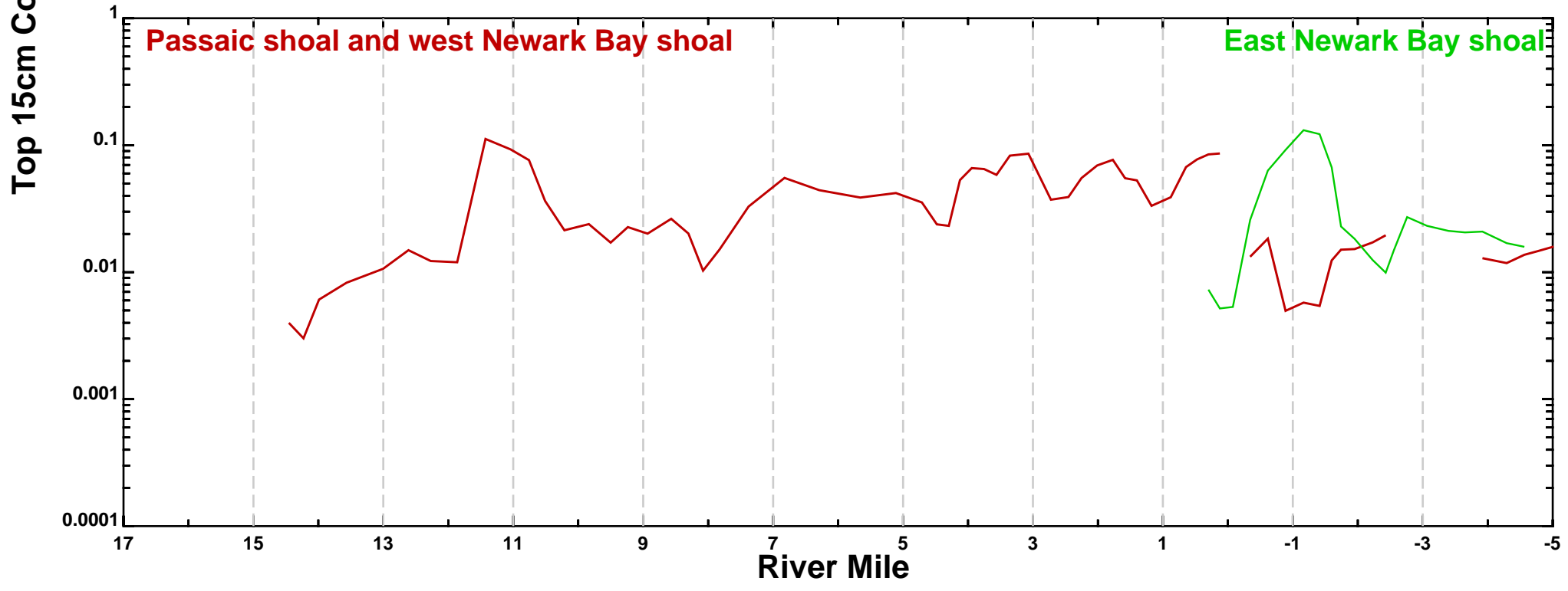
Year =1997.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



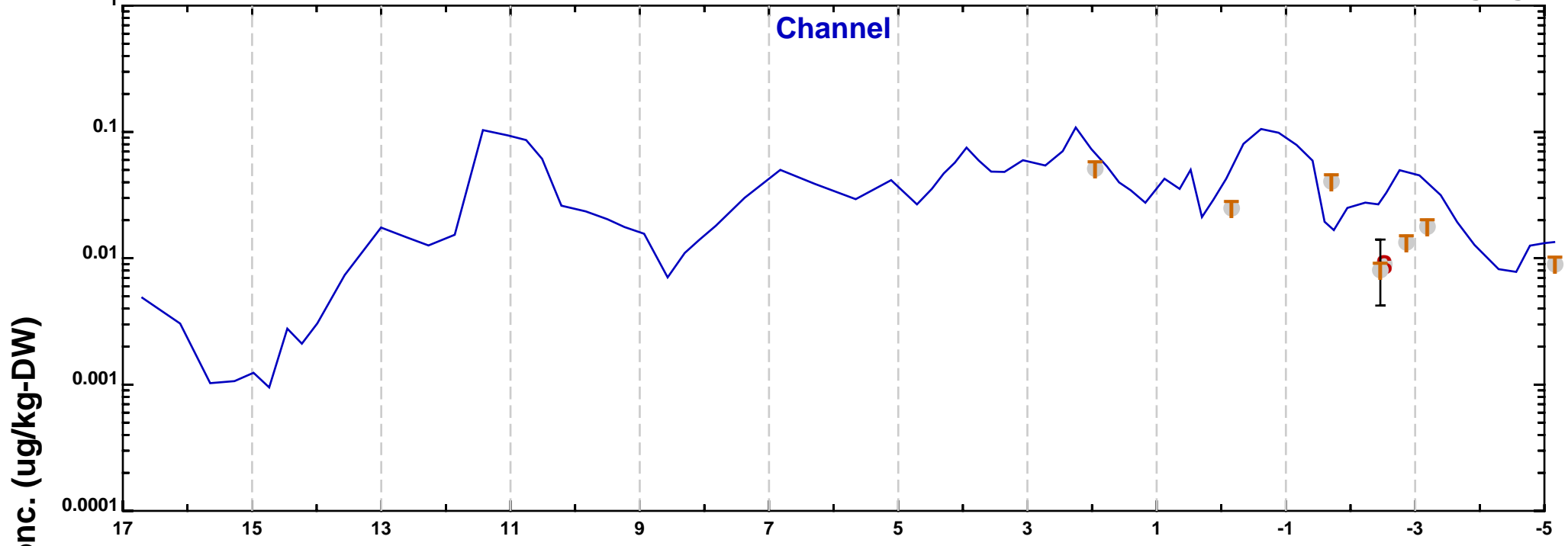
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



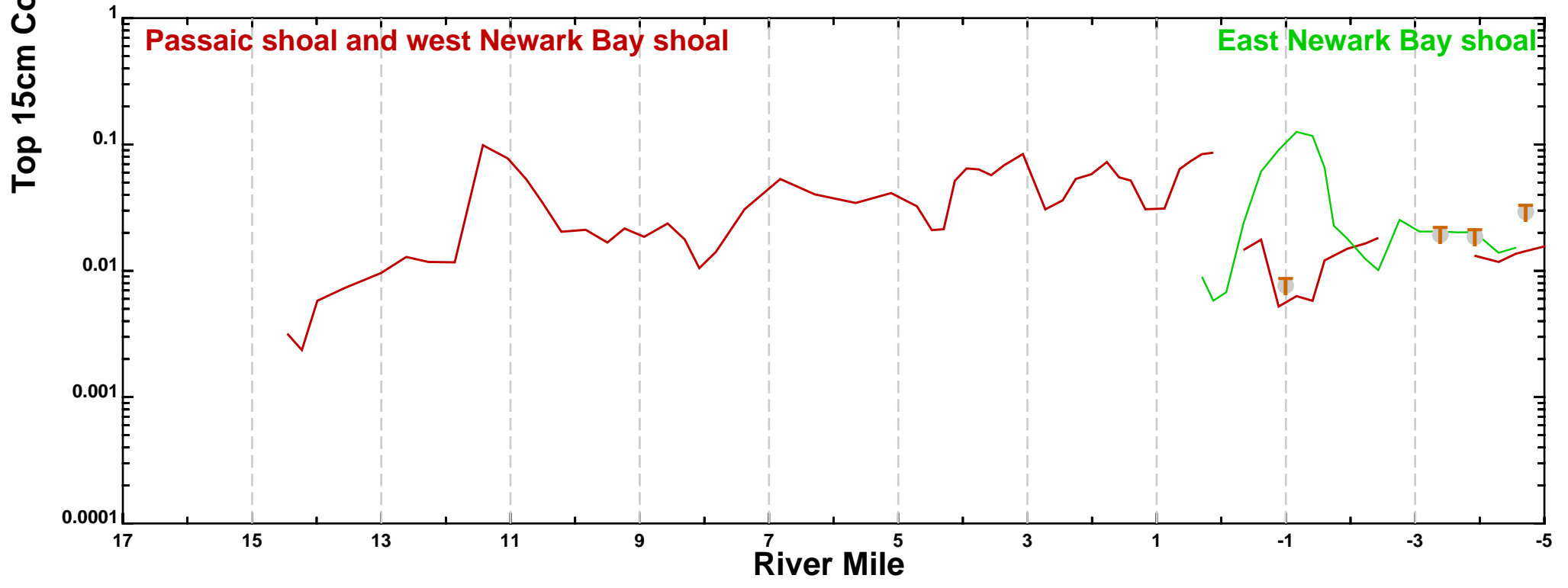
Year =1998.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



**Passaic shoal and west Newark Bay shoal**

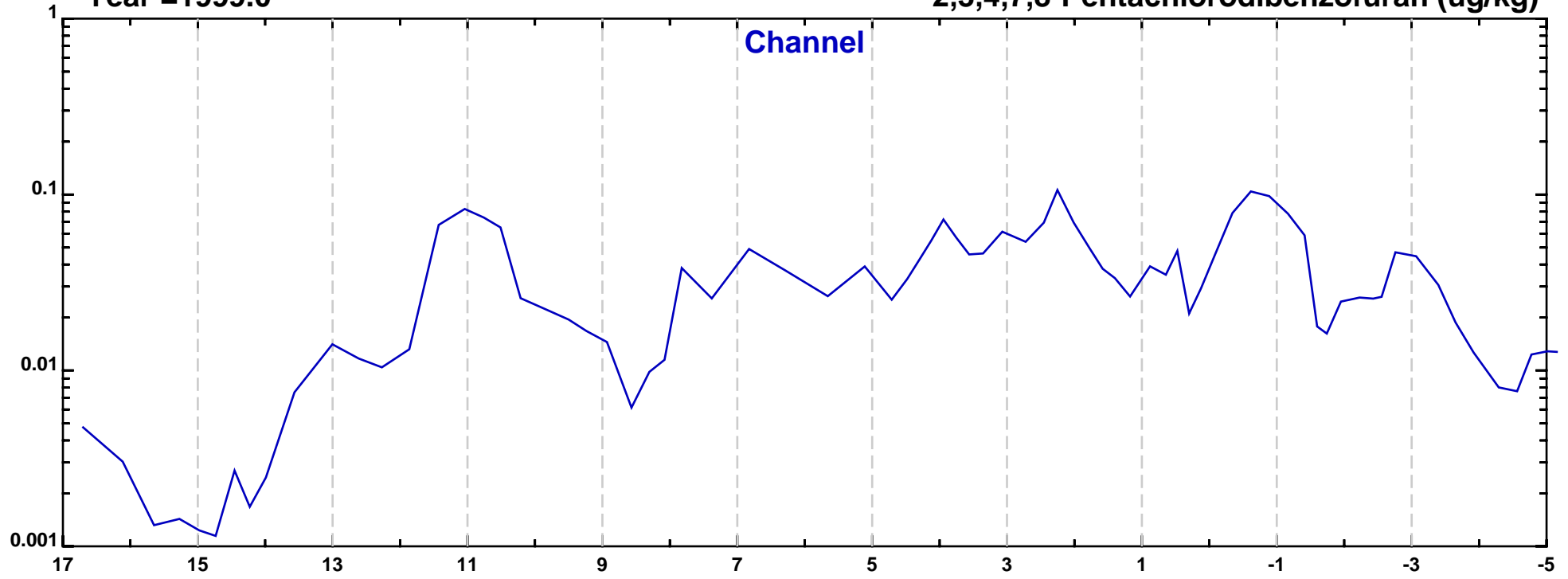
**East Newark Bay shoal**



Year = 1999.0

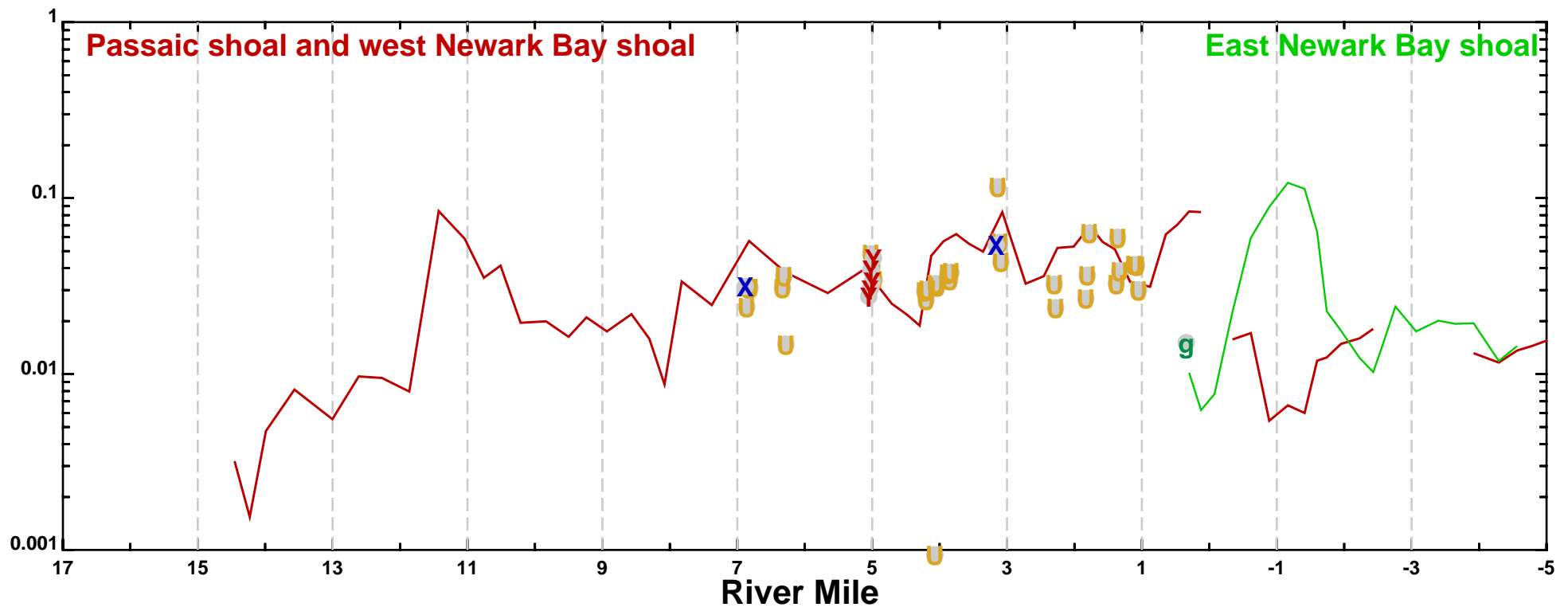
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

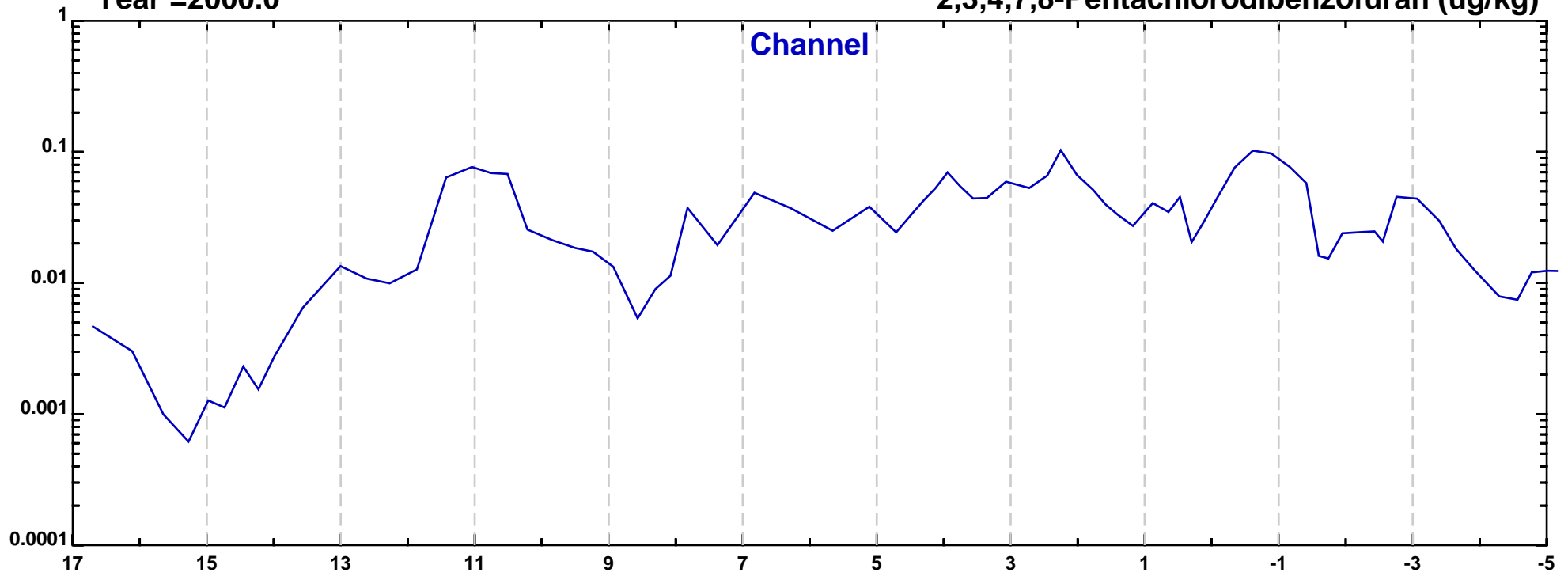


Year =2000.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

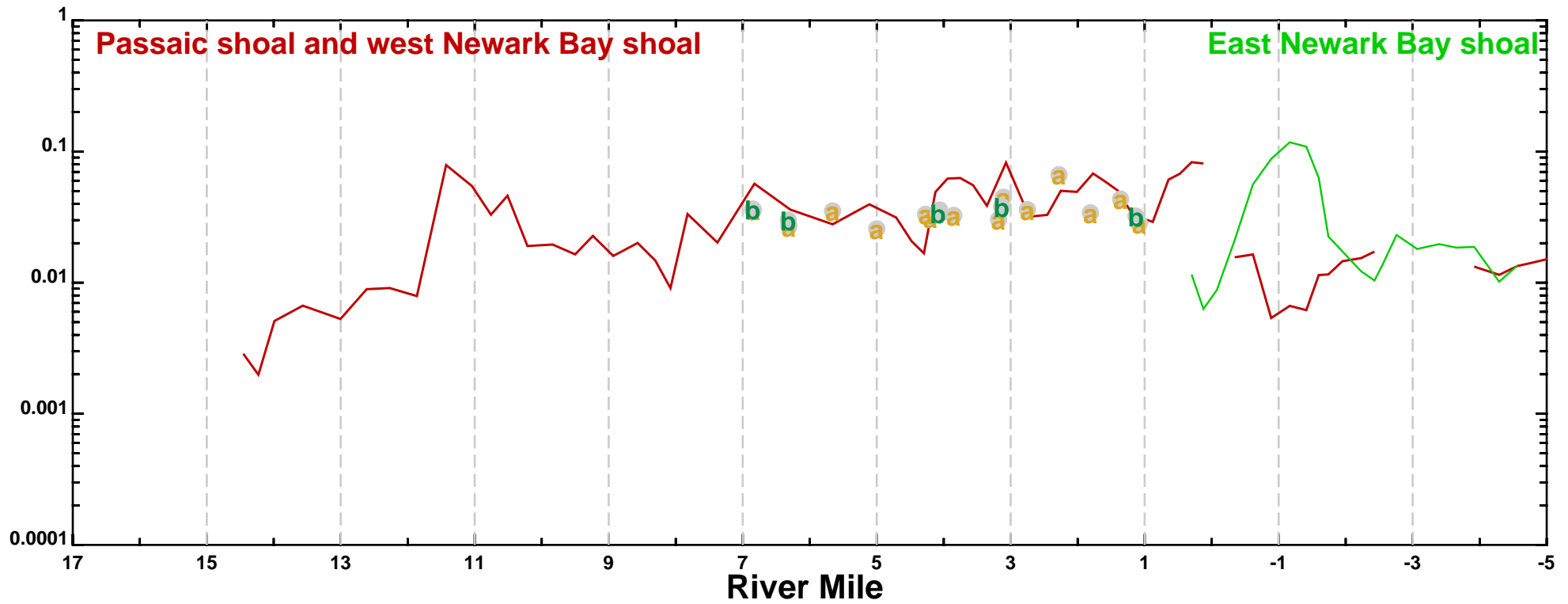
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

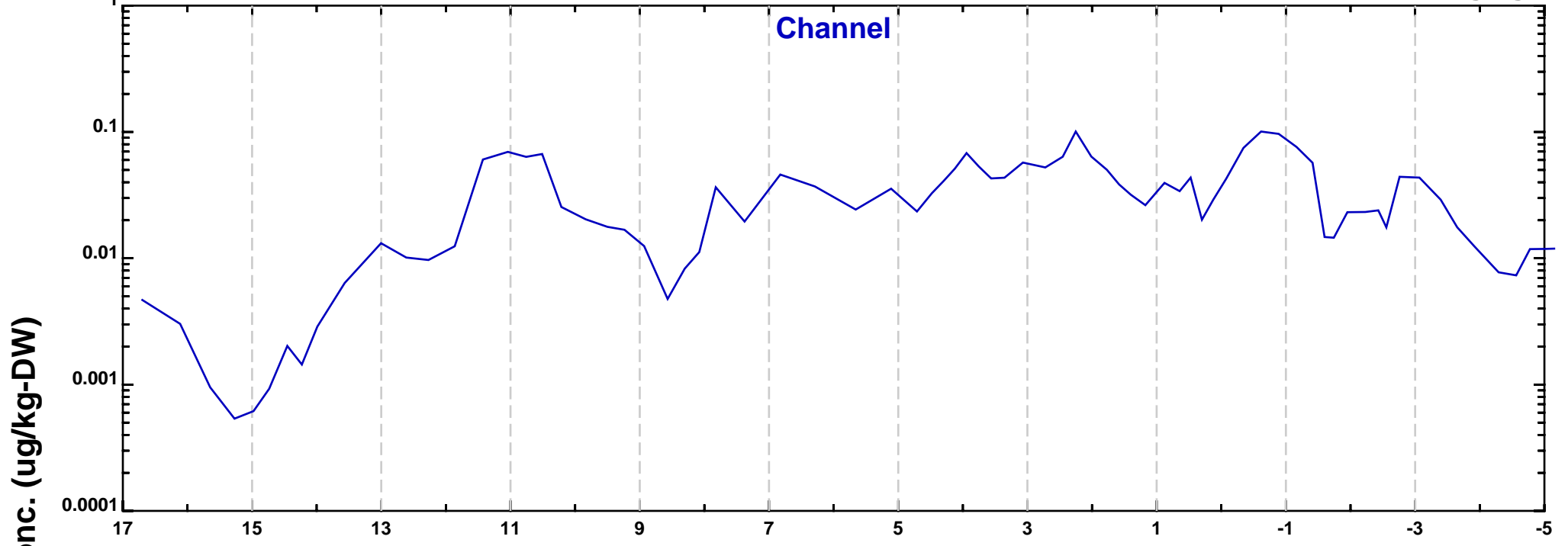
East Newark Bay shoal





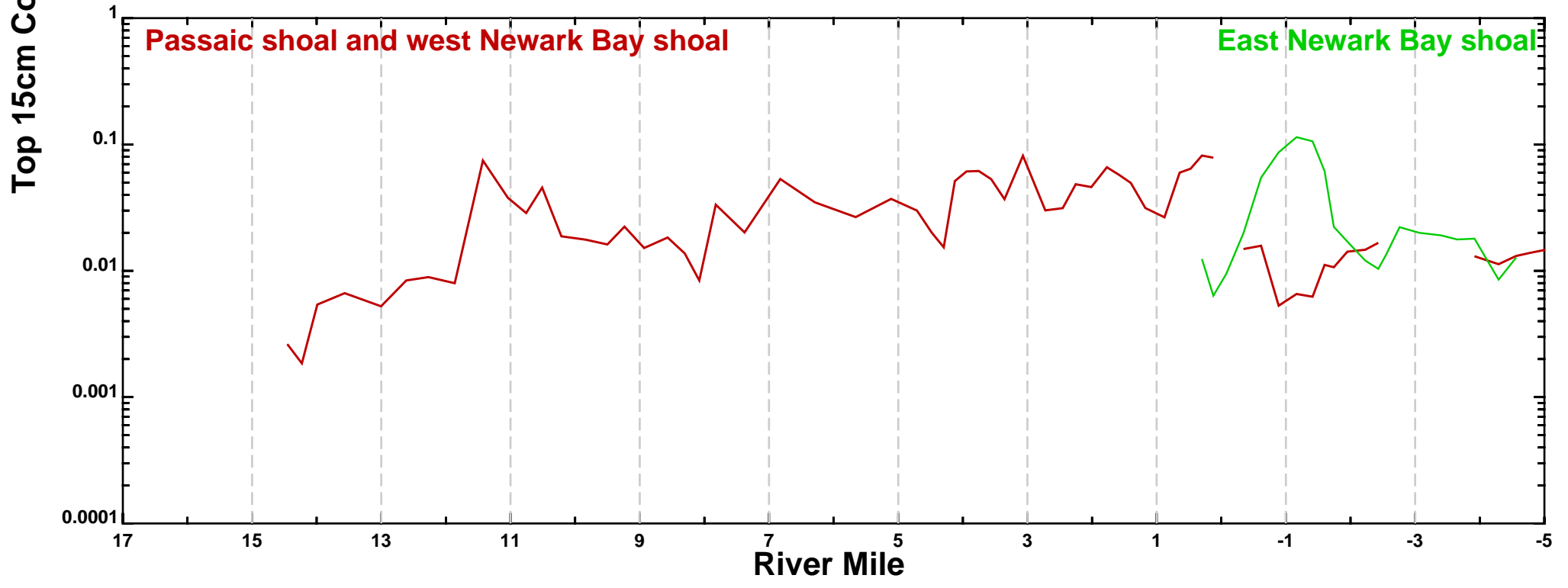
Year =2001.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



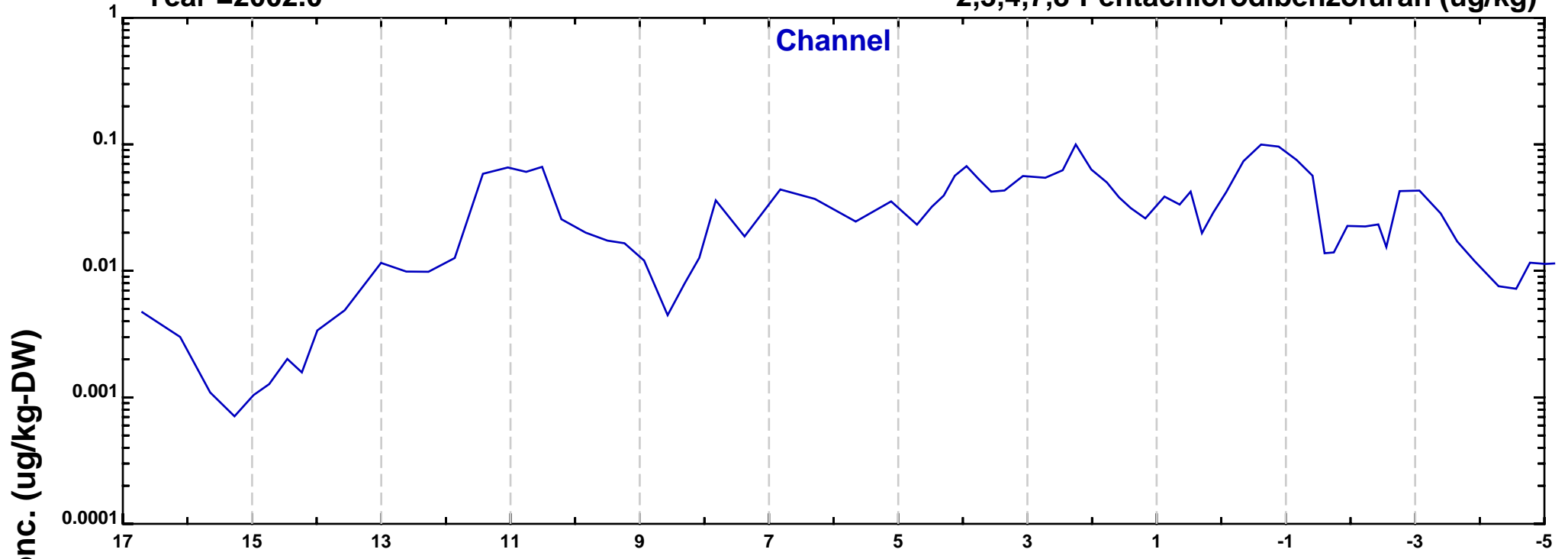
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



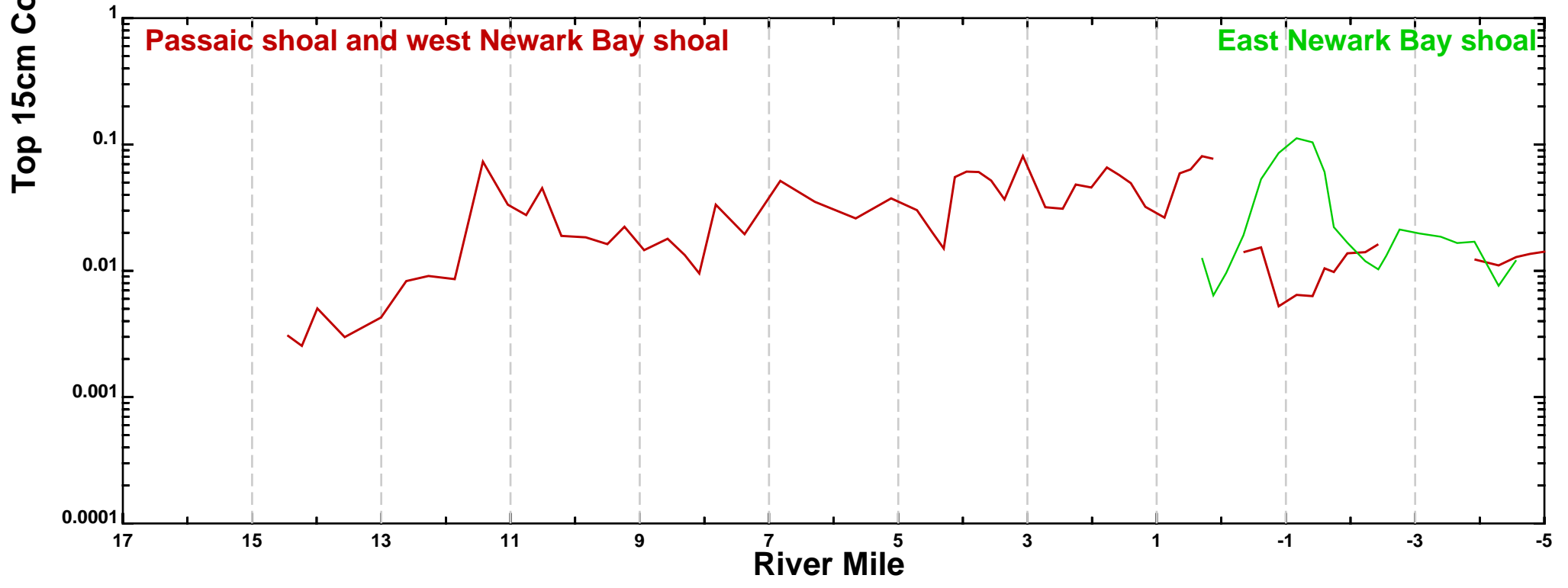
Year =2002.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



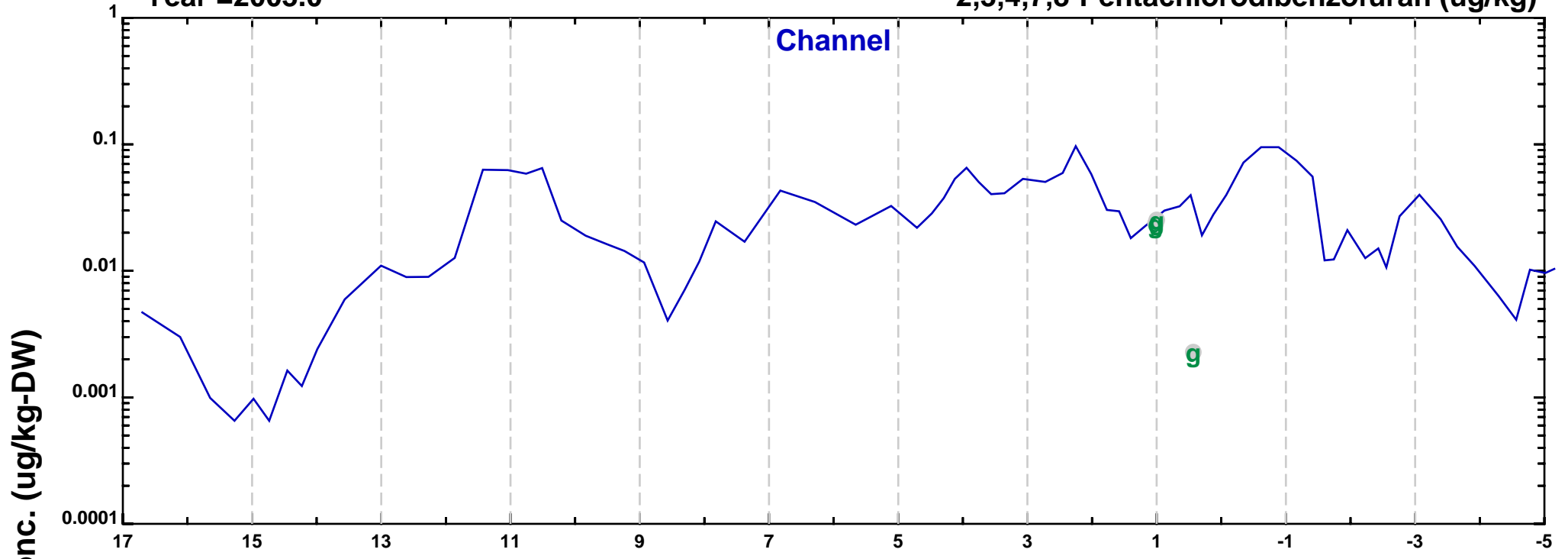
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



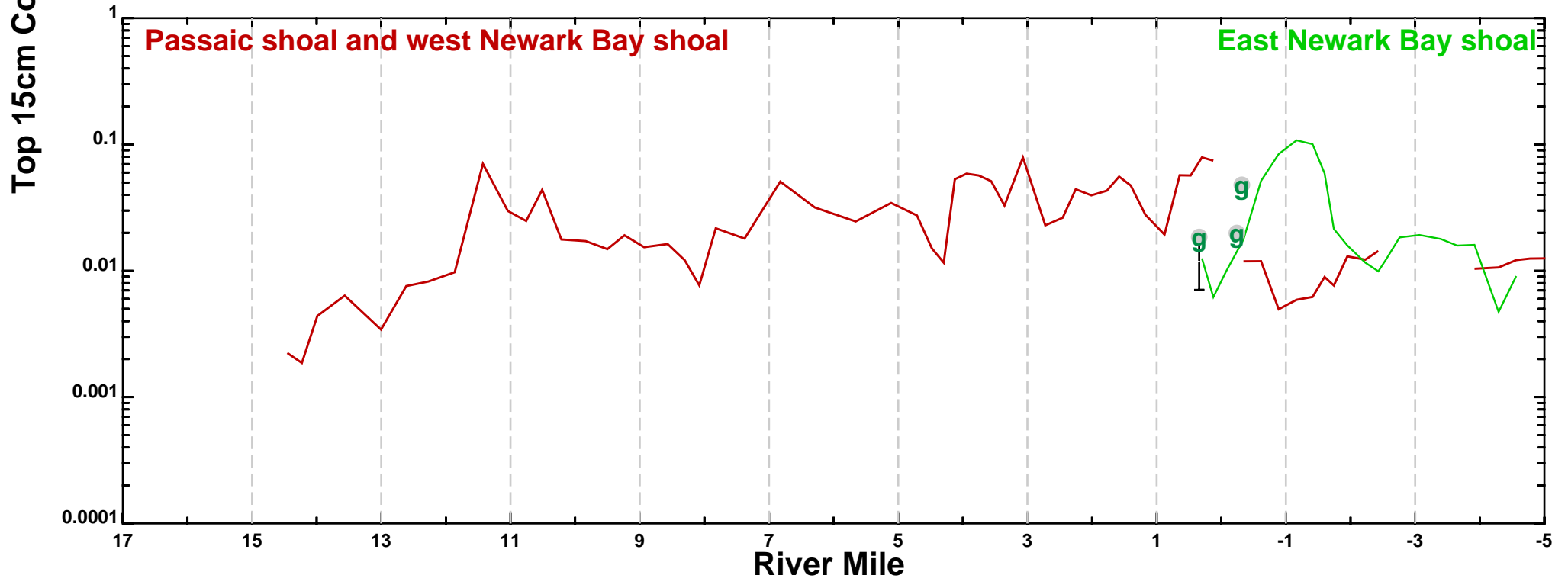
Year =2003.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



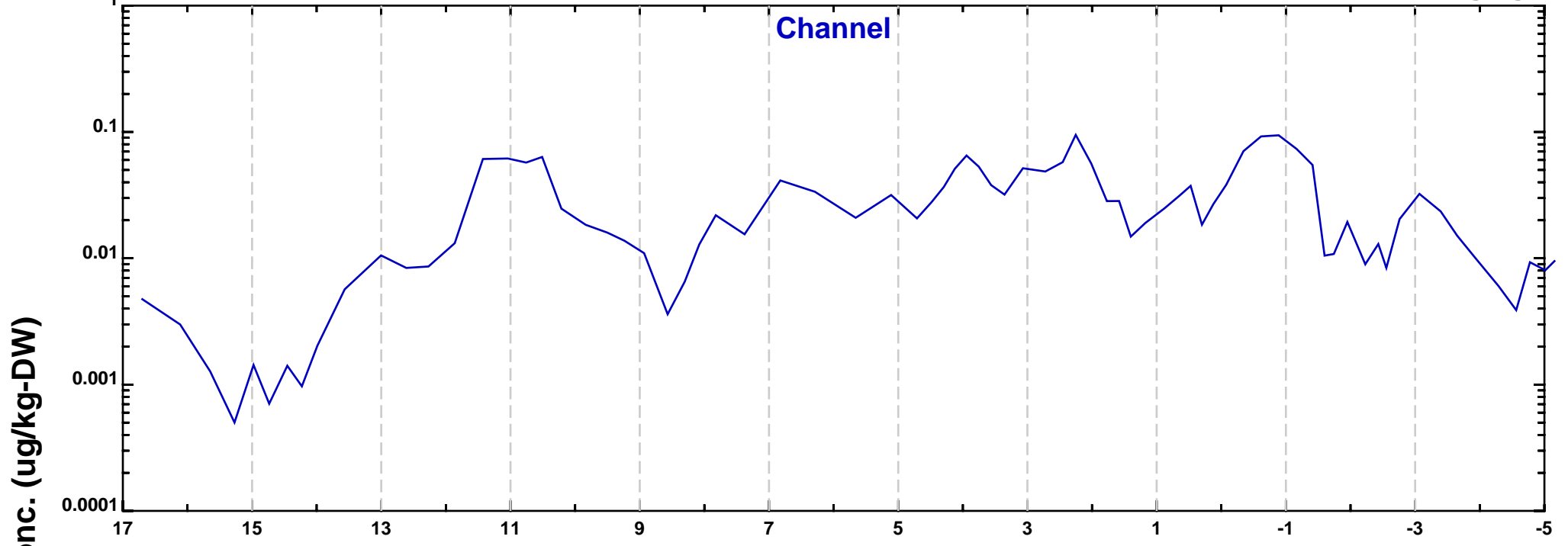
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



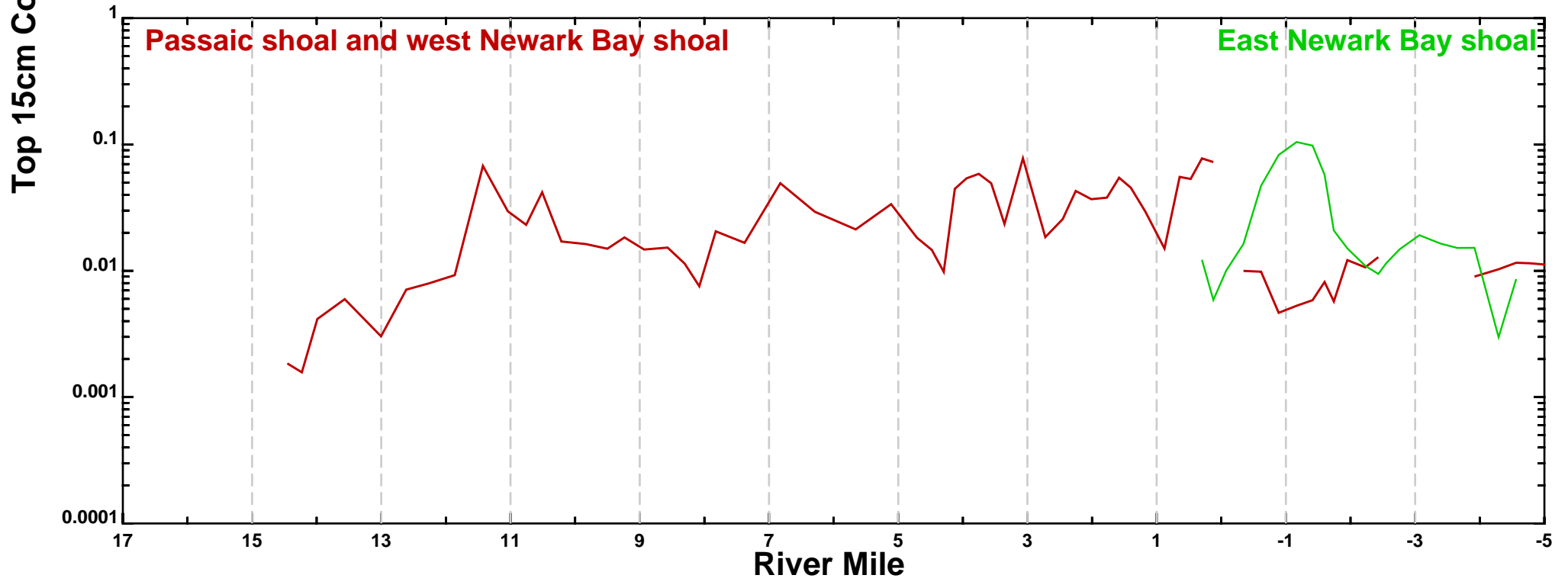
Year =2004.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



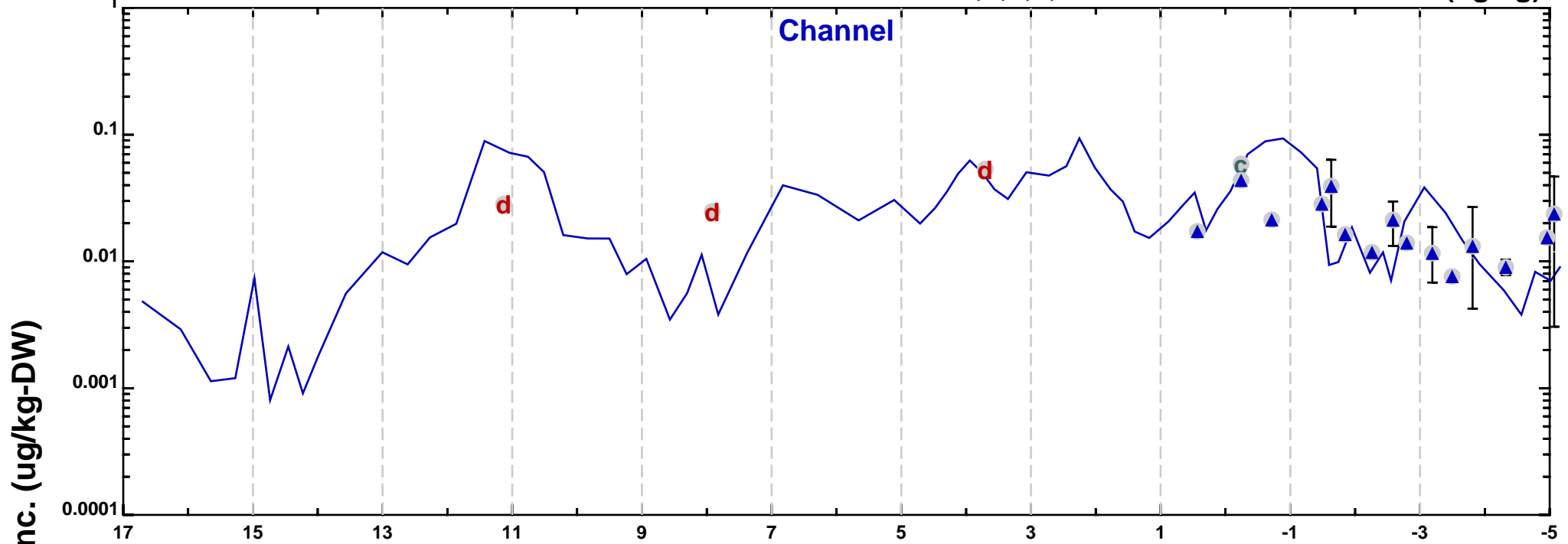
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



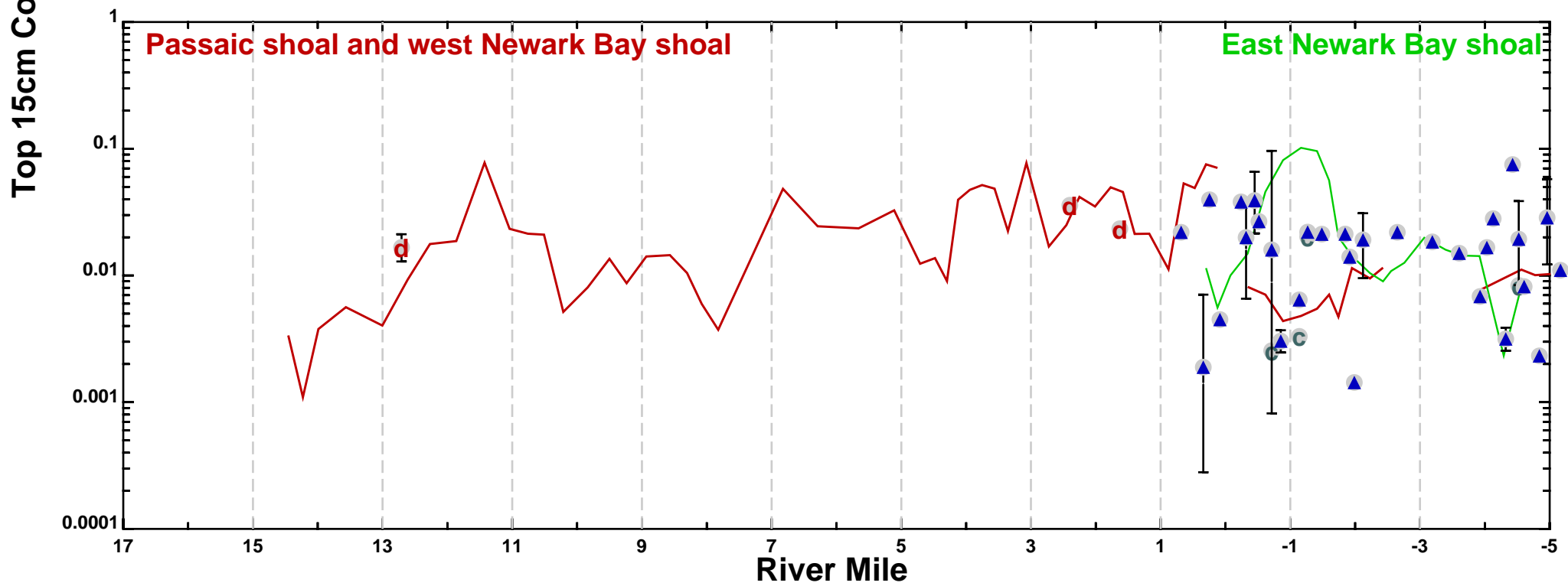
Year =2005.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

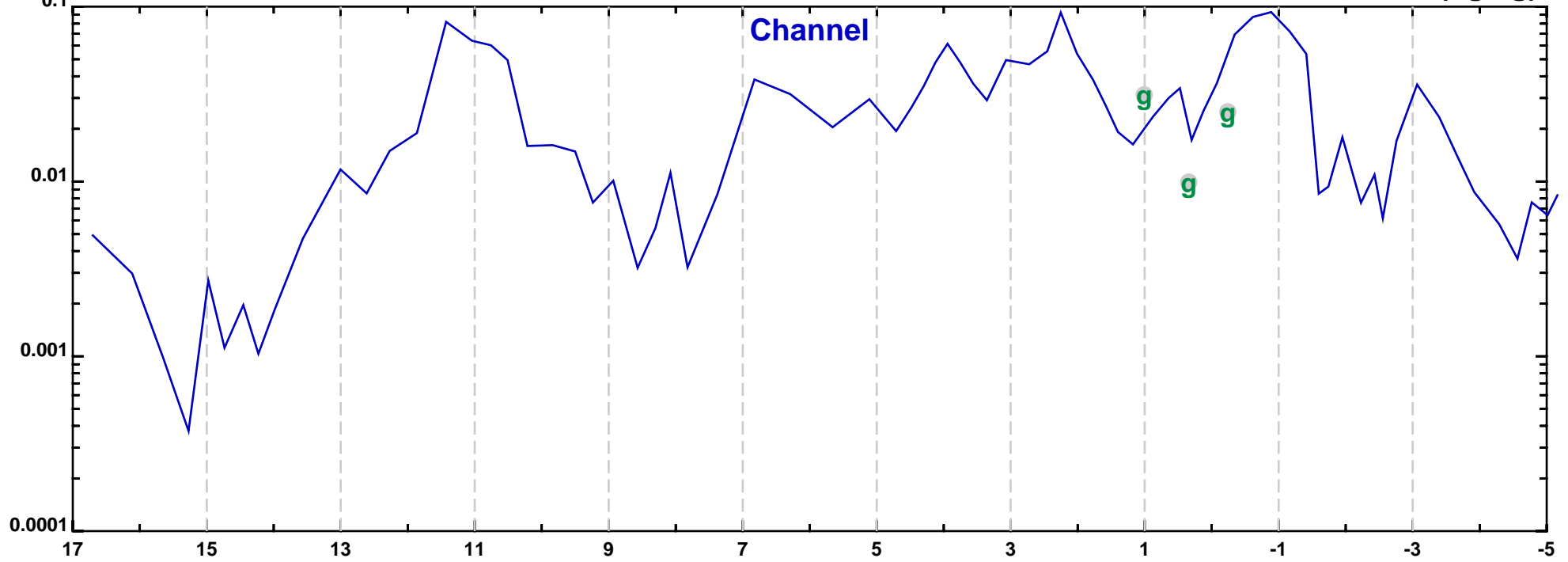
East Newark Bay shoal



Year =2006.0

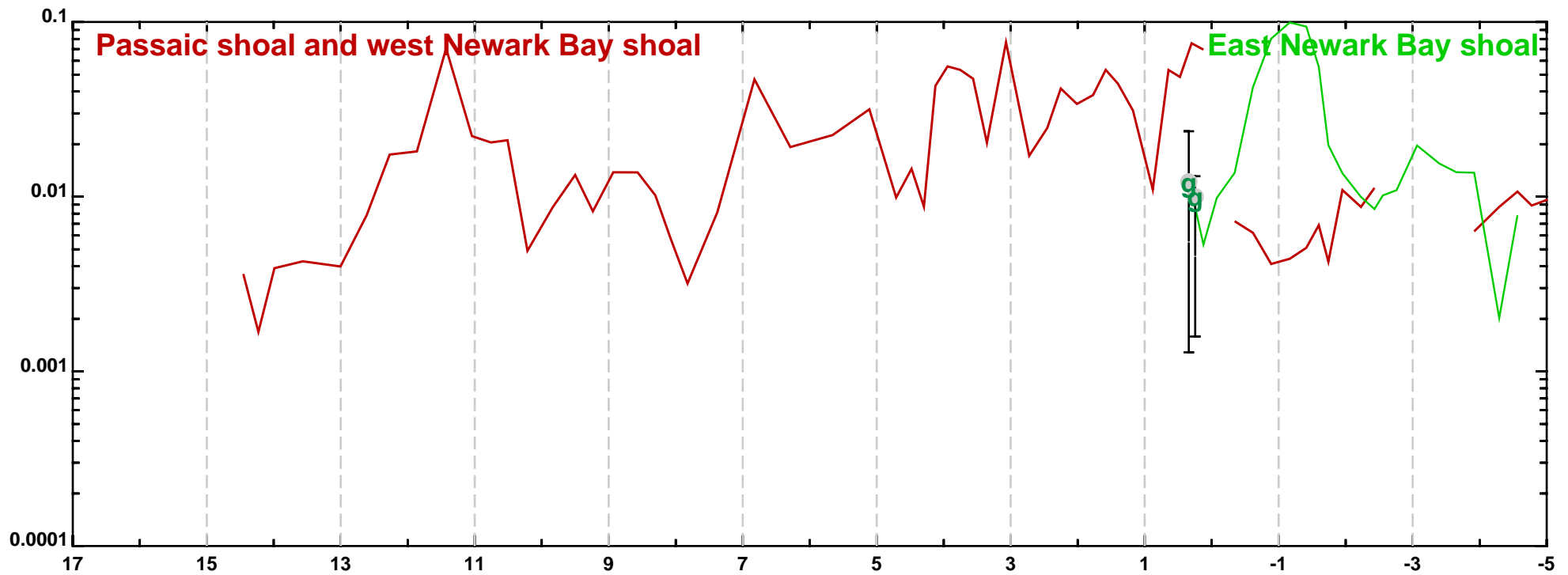
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

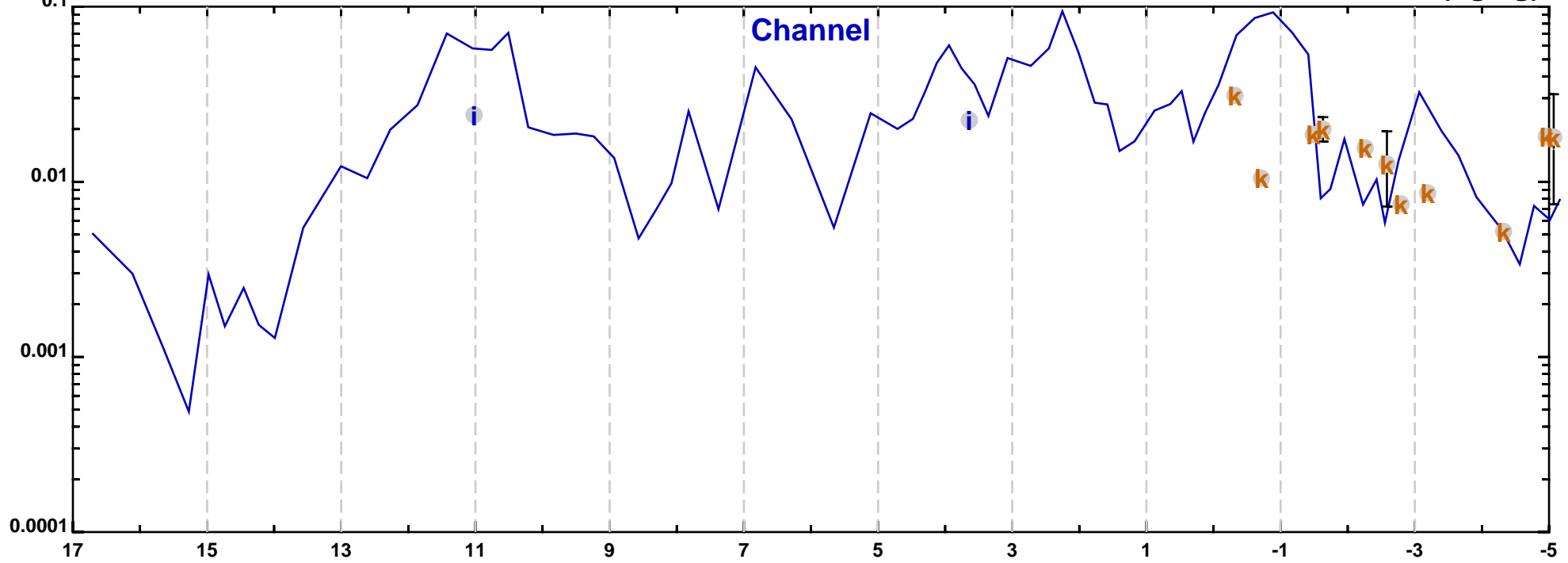


Year =2007.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

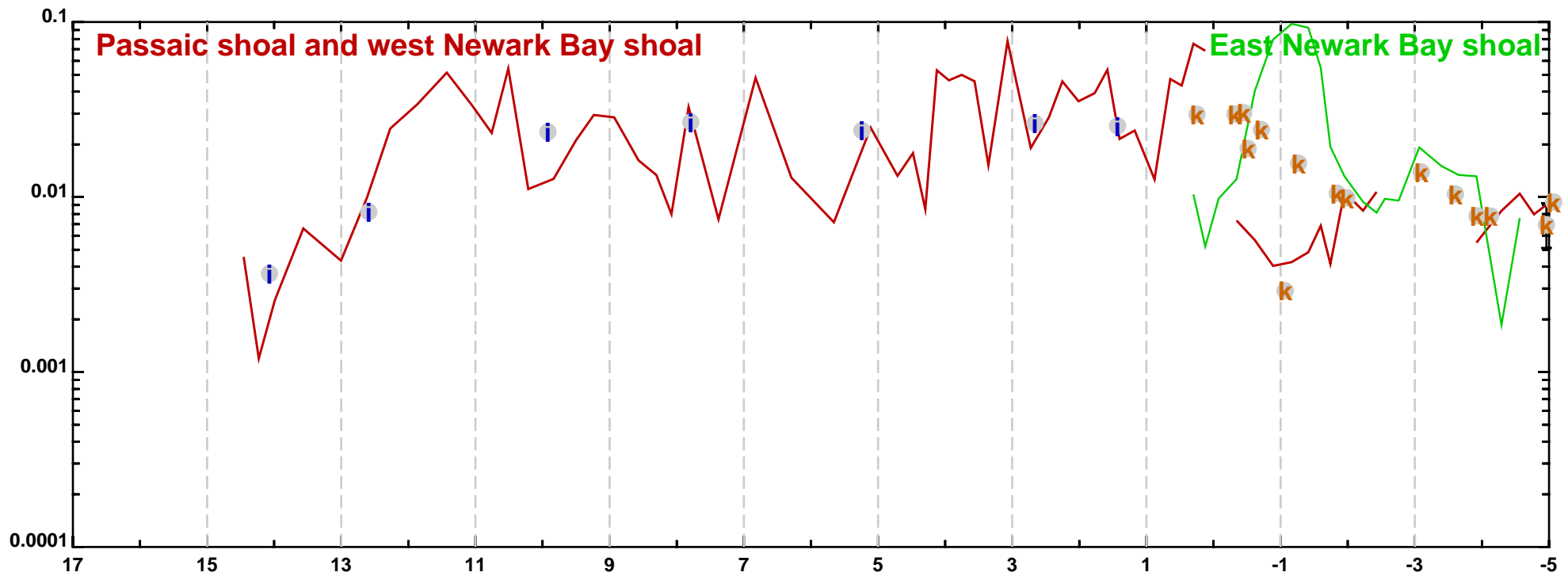
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



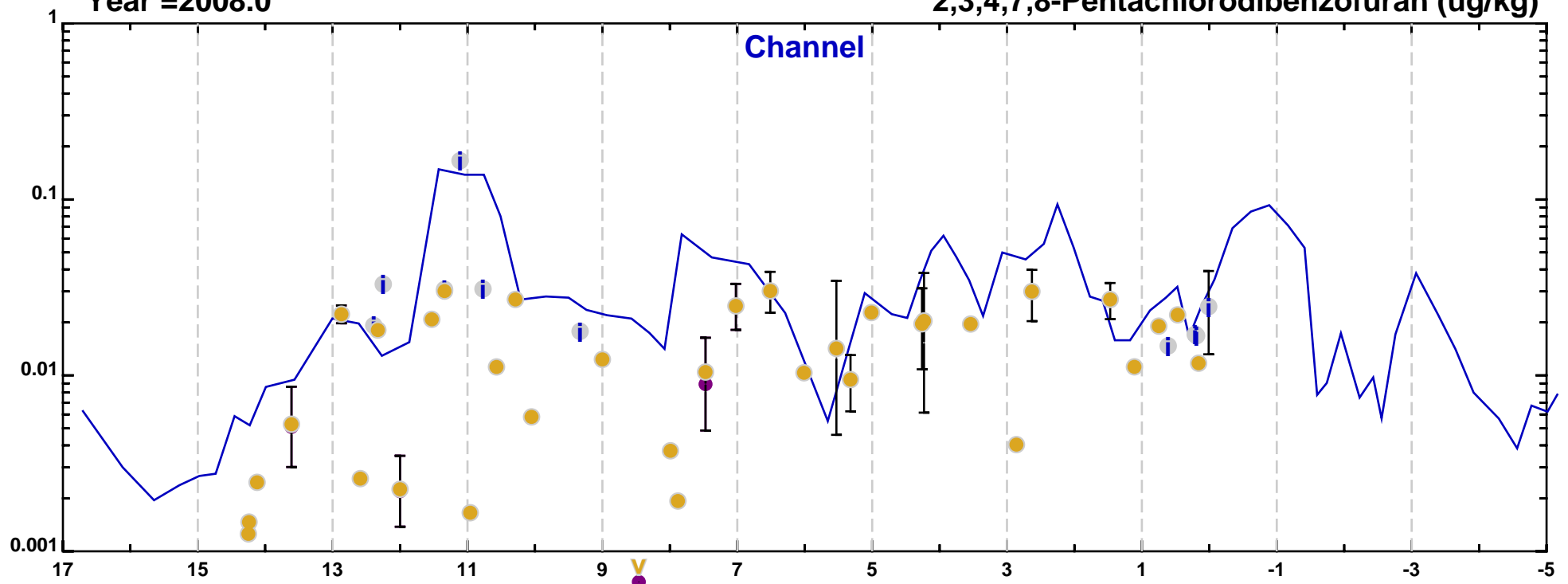
River Mile

Year =2008.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

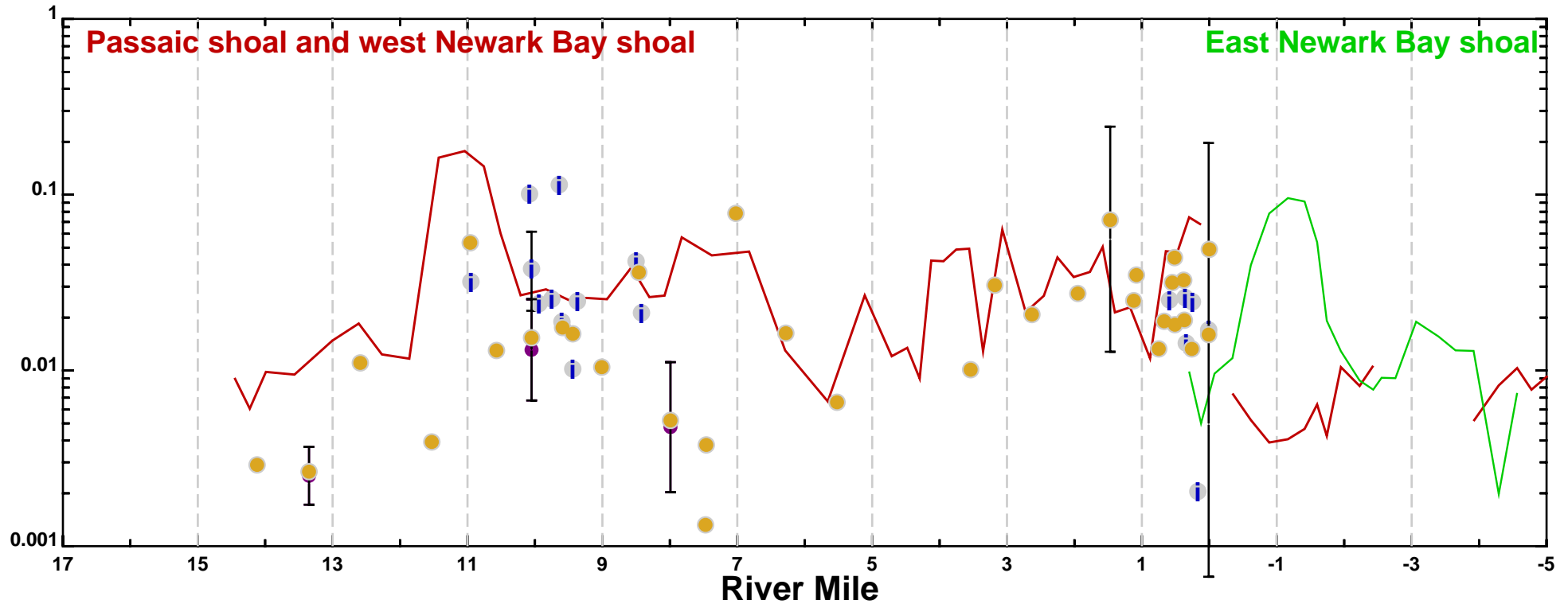
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



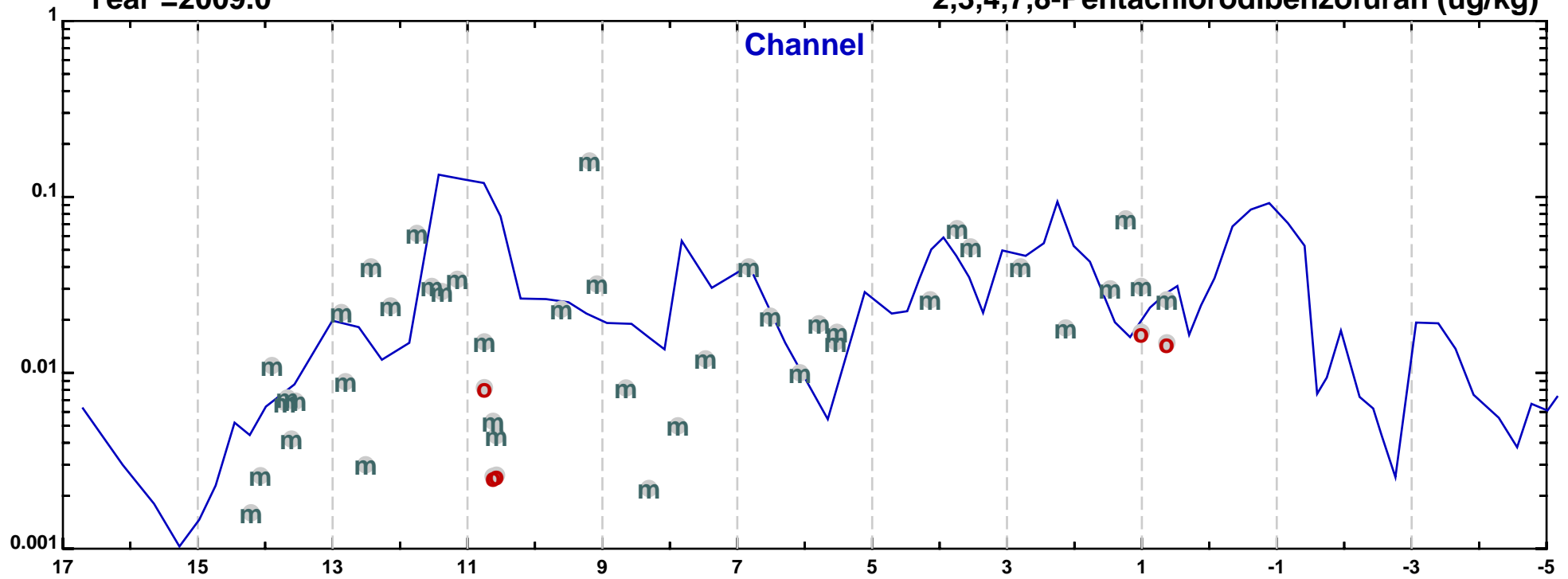


Year =2009.0

2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

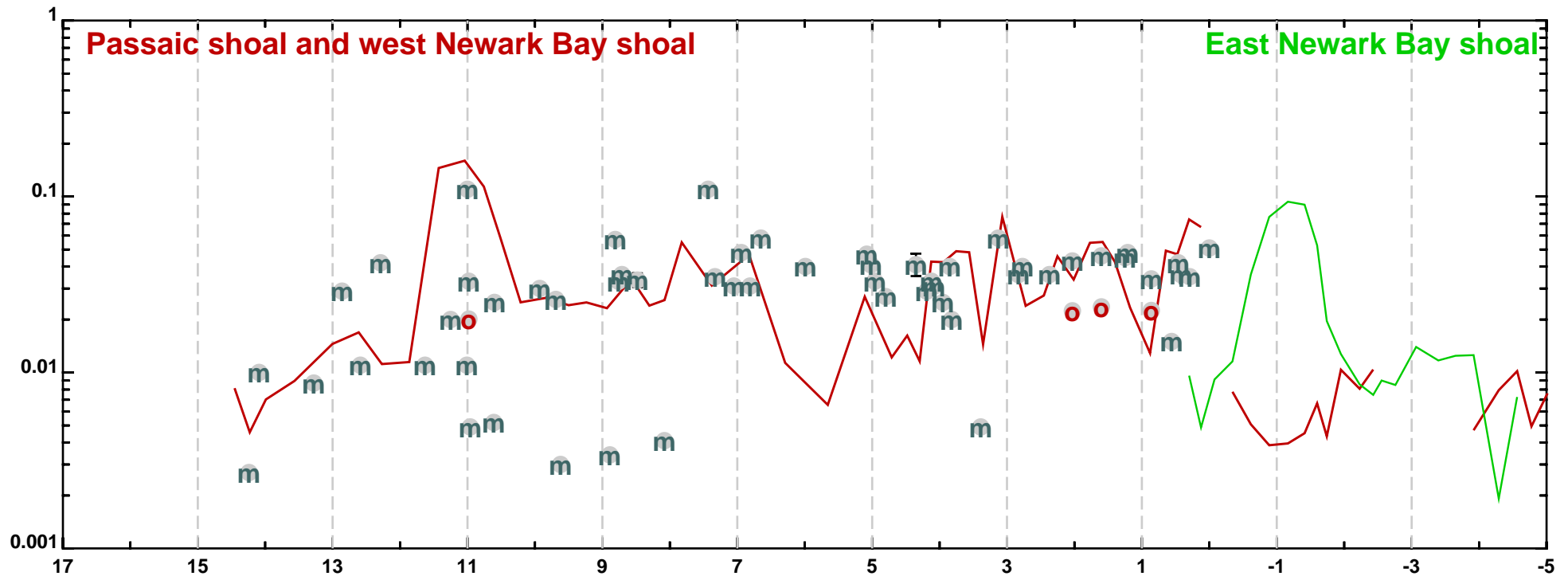
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

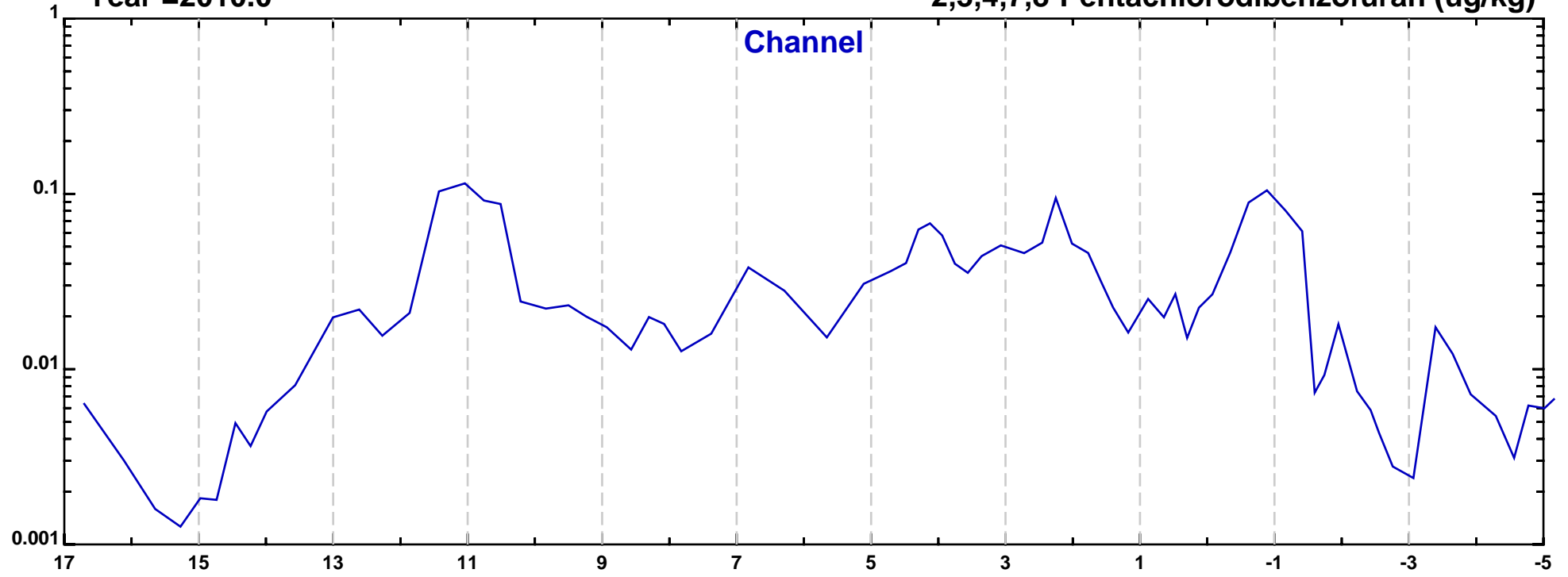


River Mile

Year =2010.0

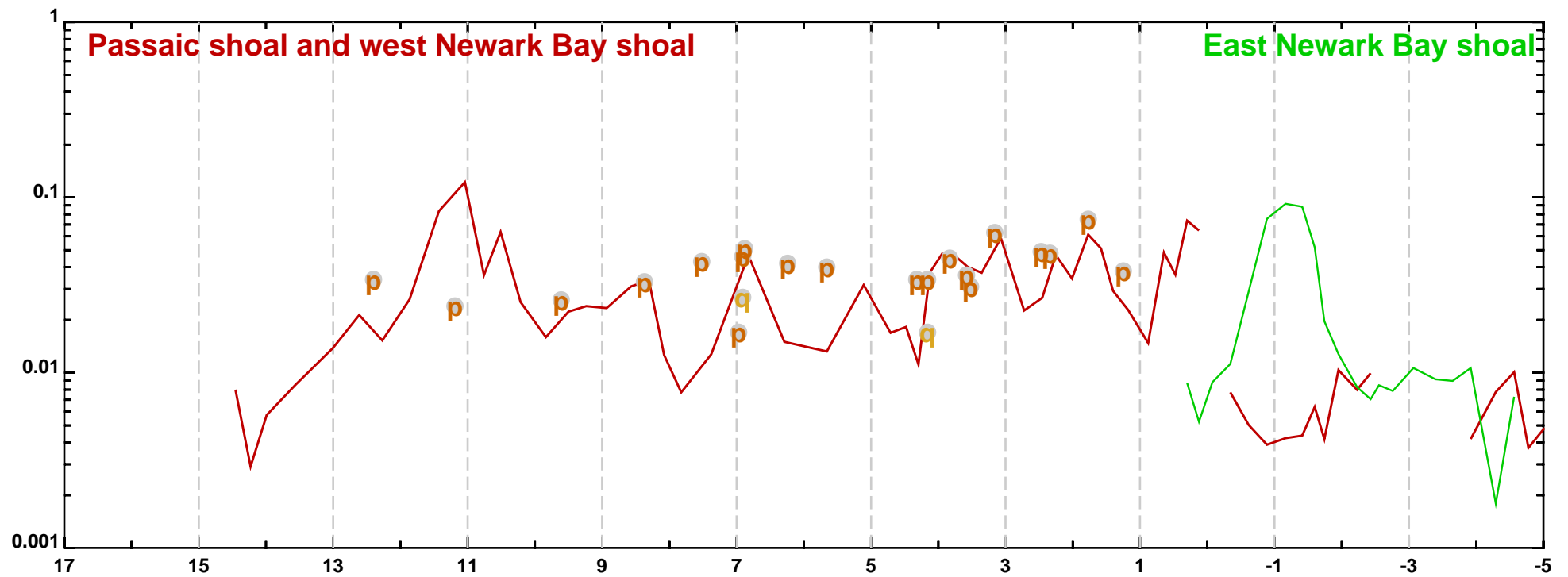
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)

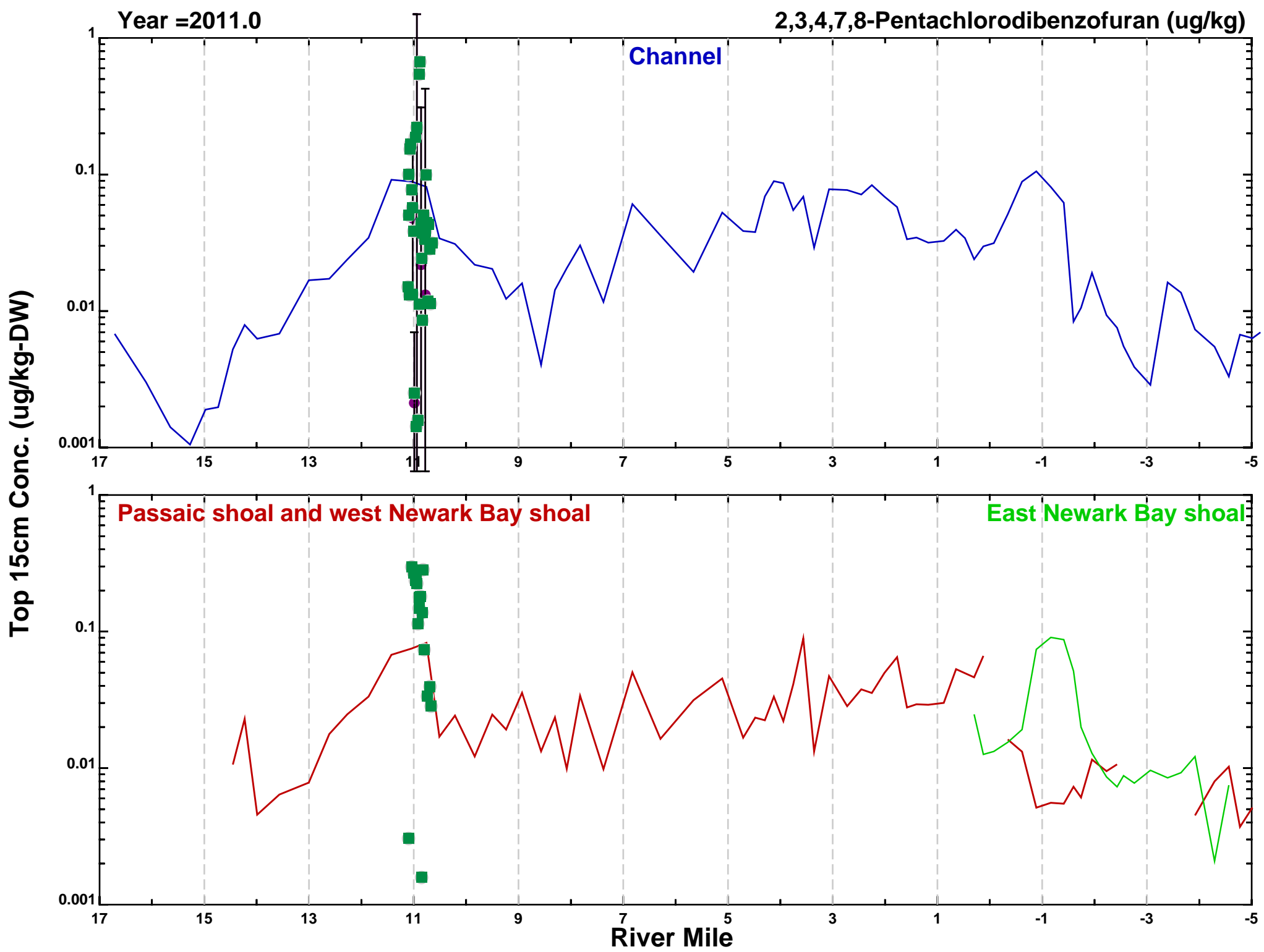


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



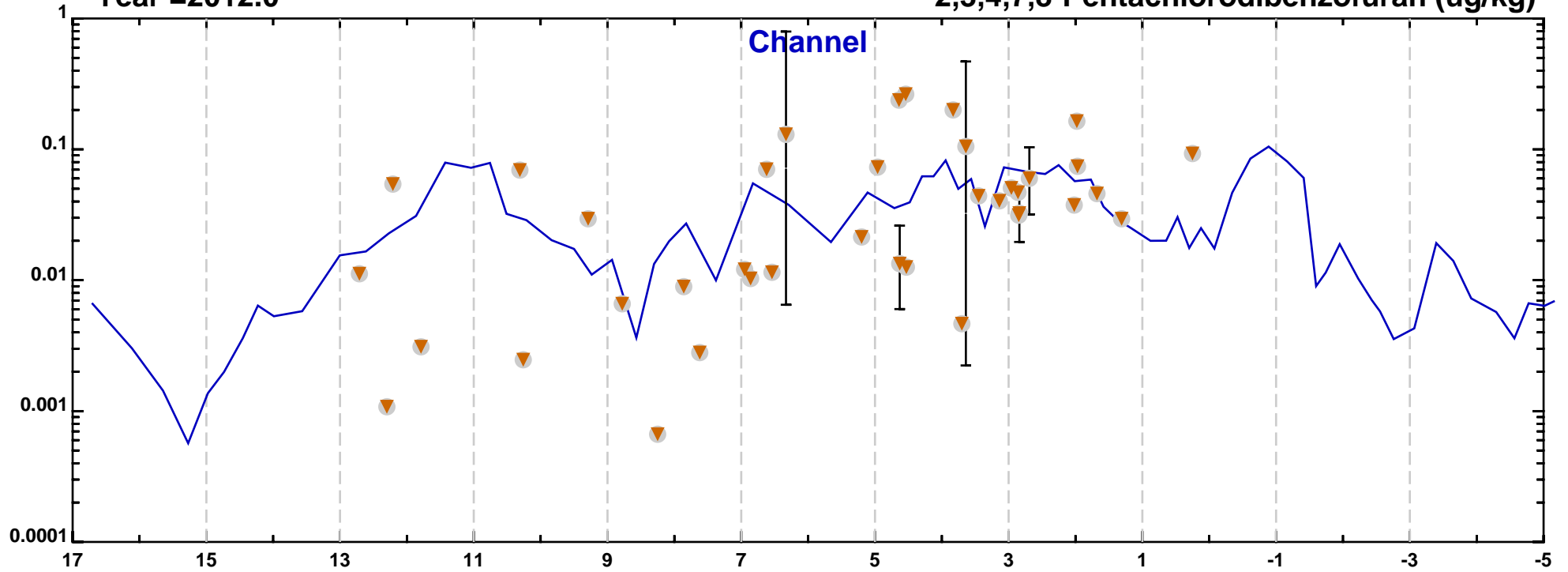
River Mile



Year =2012.0

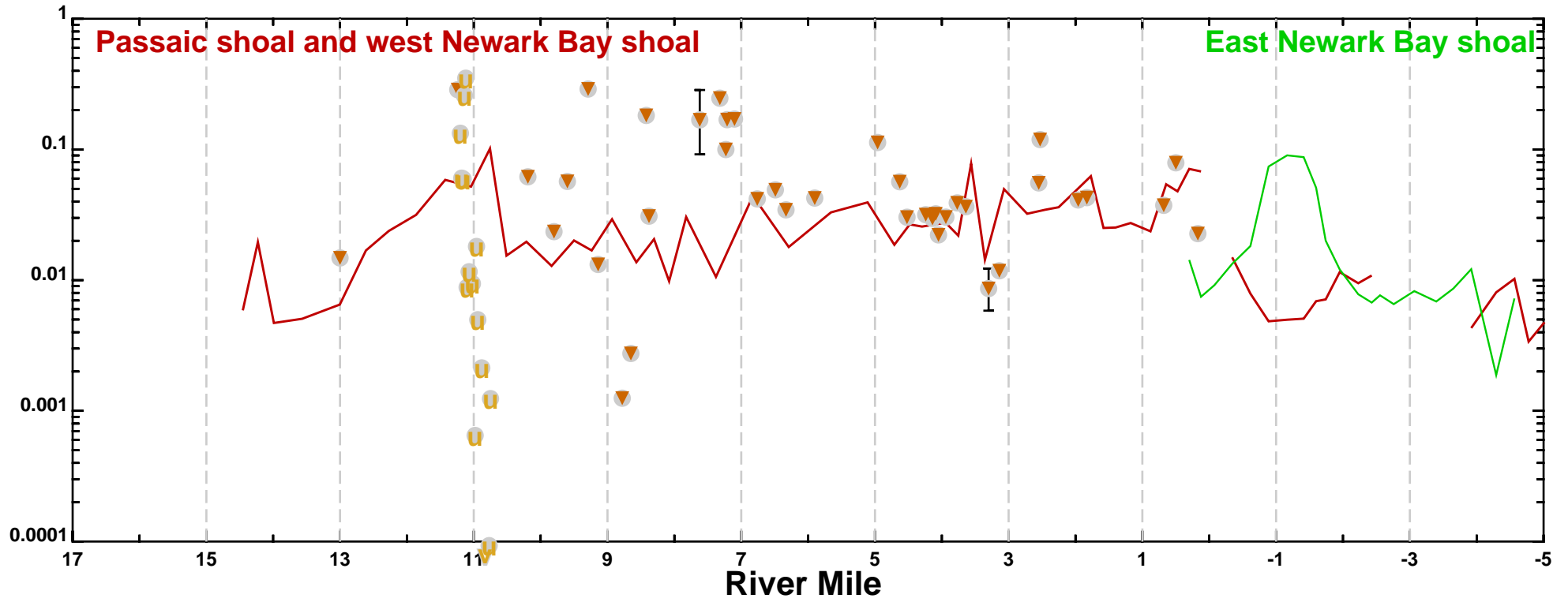
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

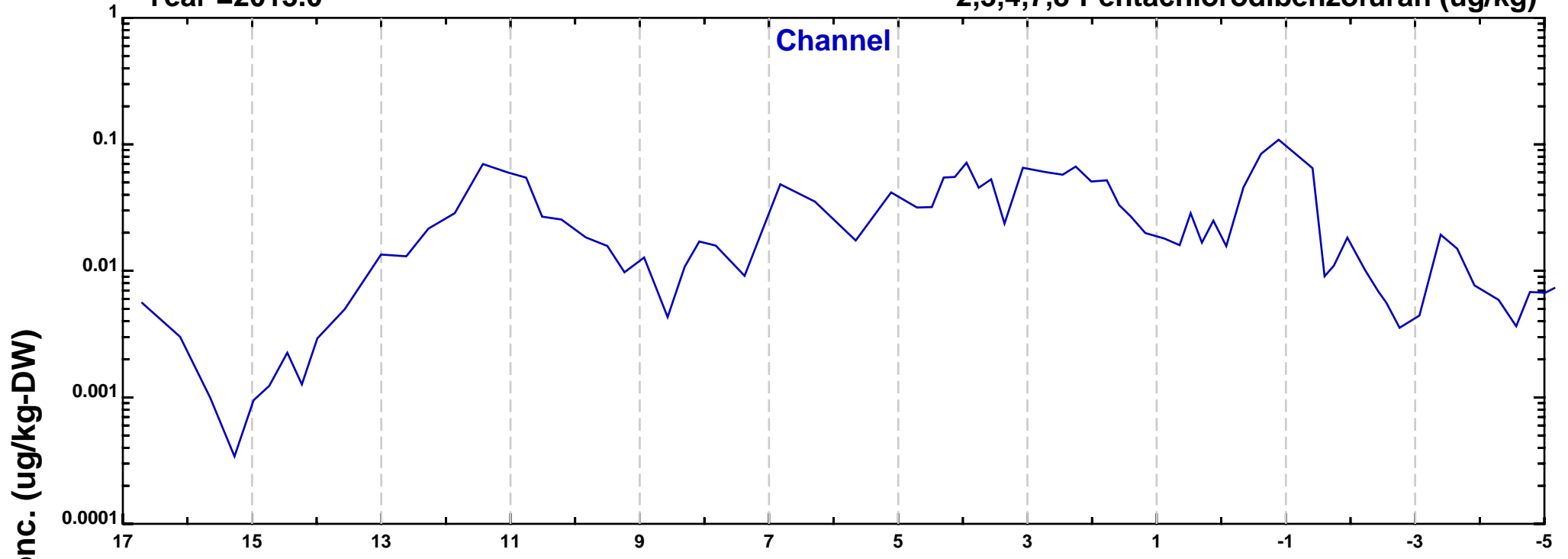
East Newark Bay shoal



River Mile

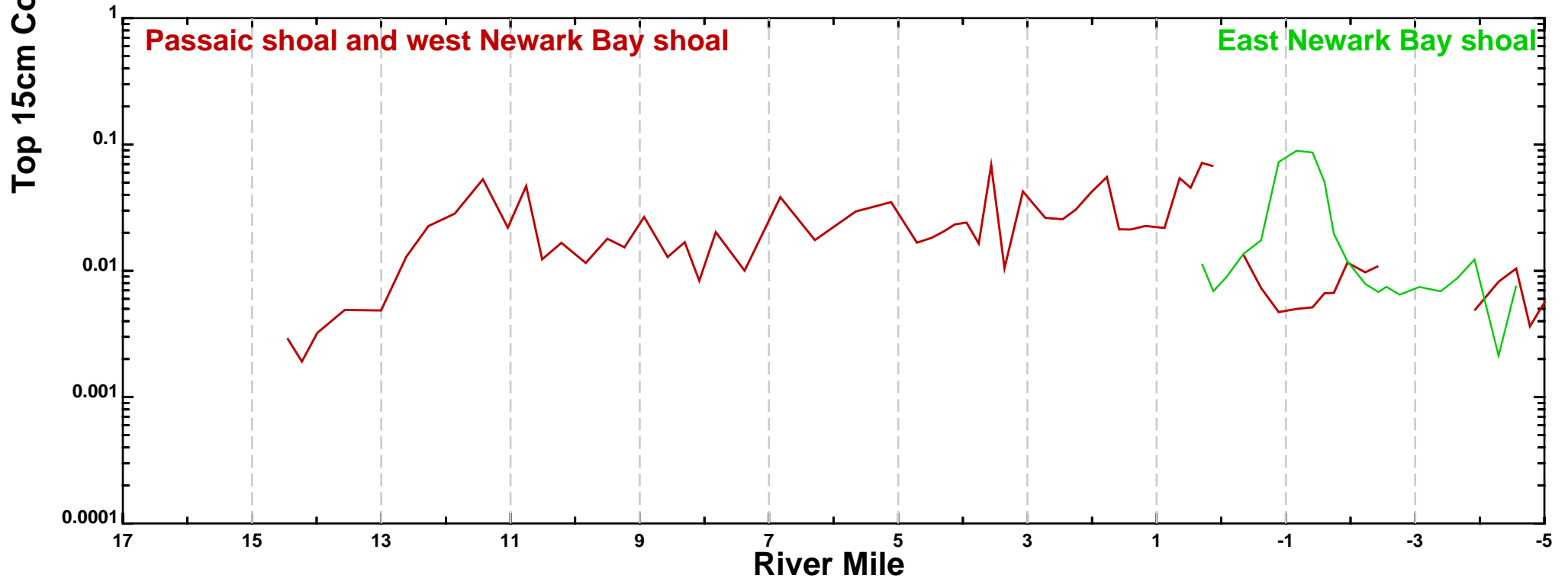
Year =2013.0

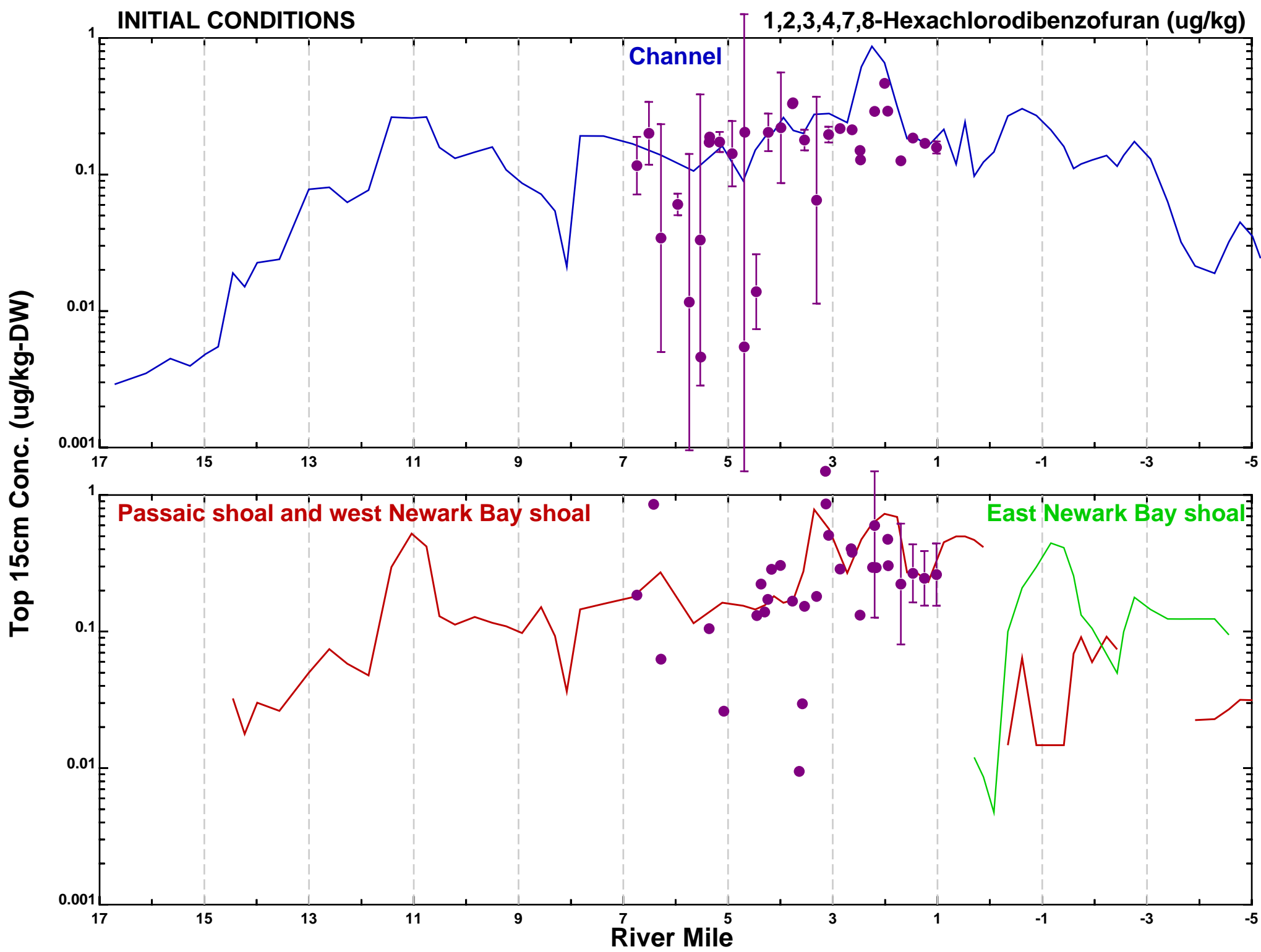
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



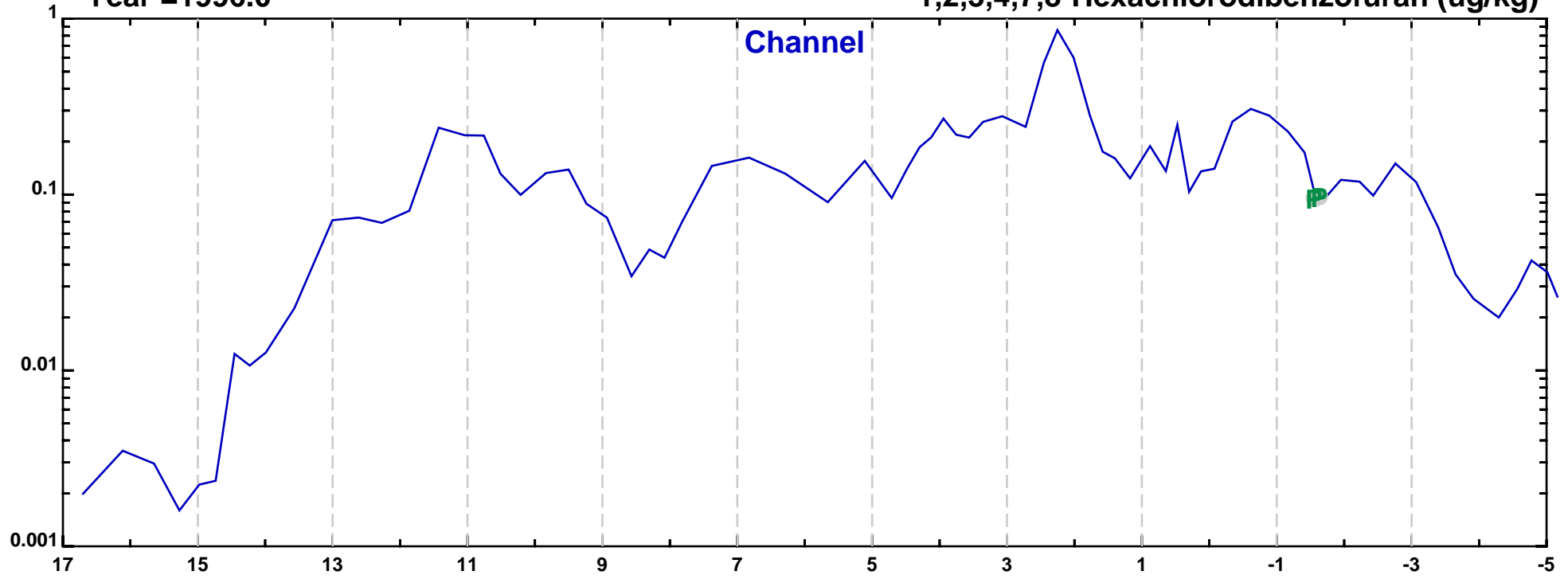


Year =1996.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

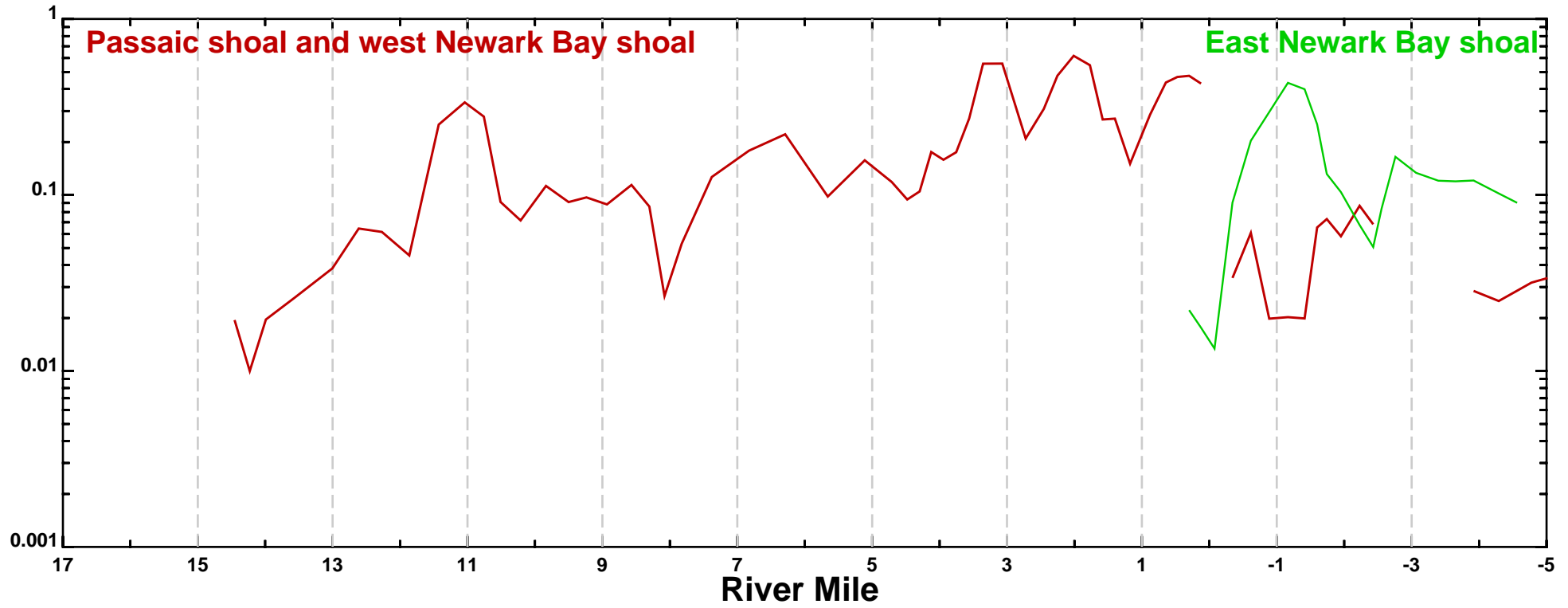
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

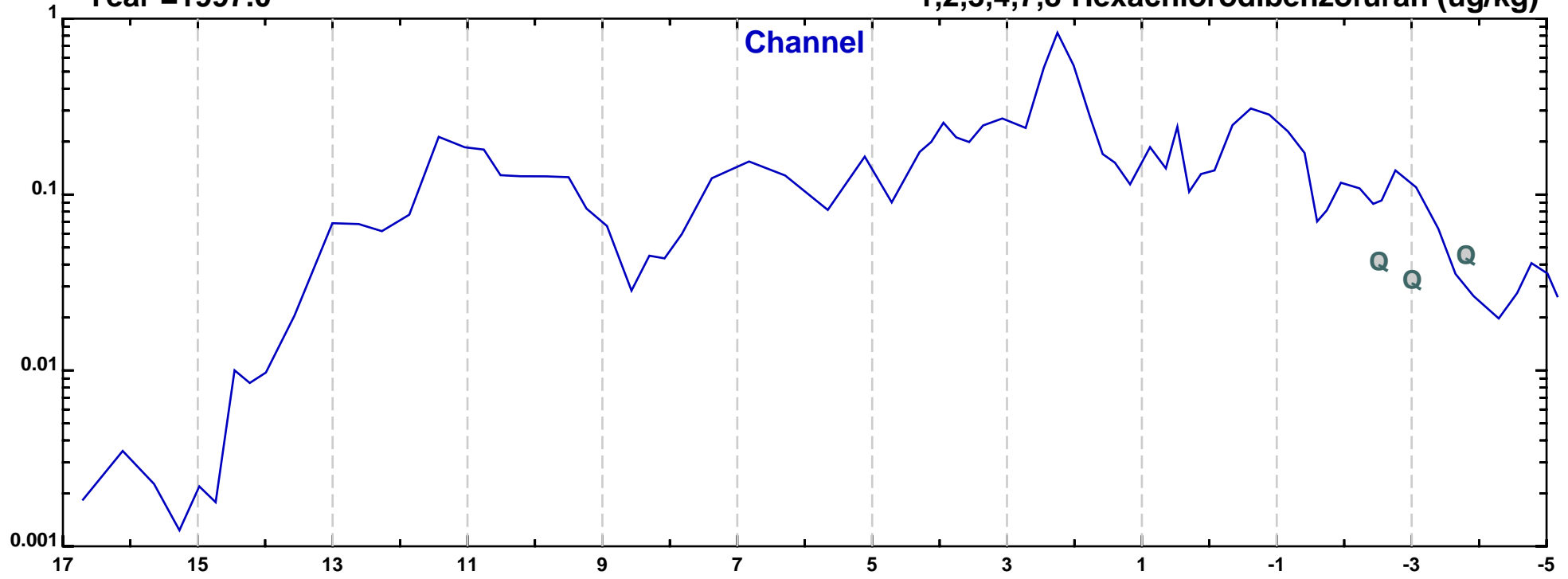


River Mile

Year =1997.0

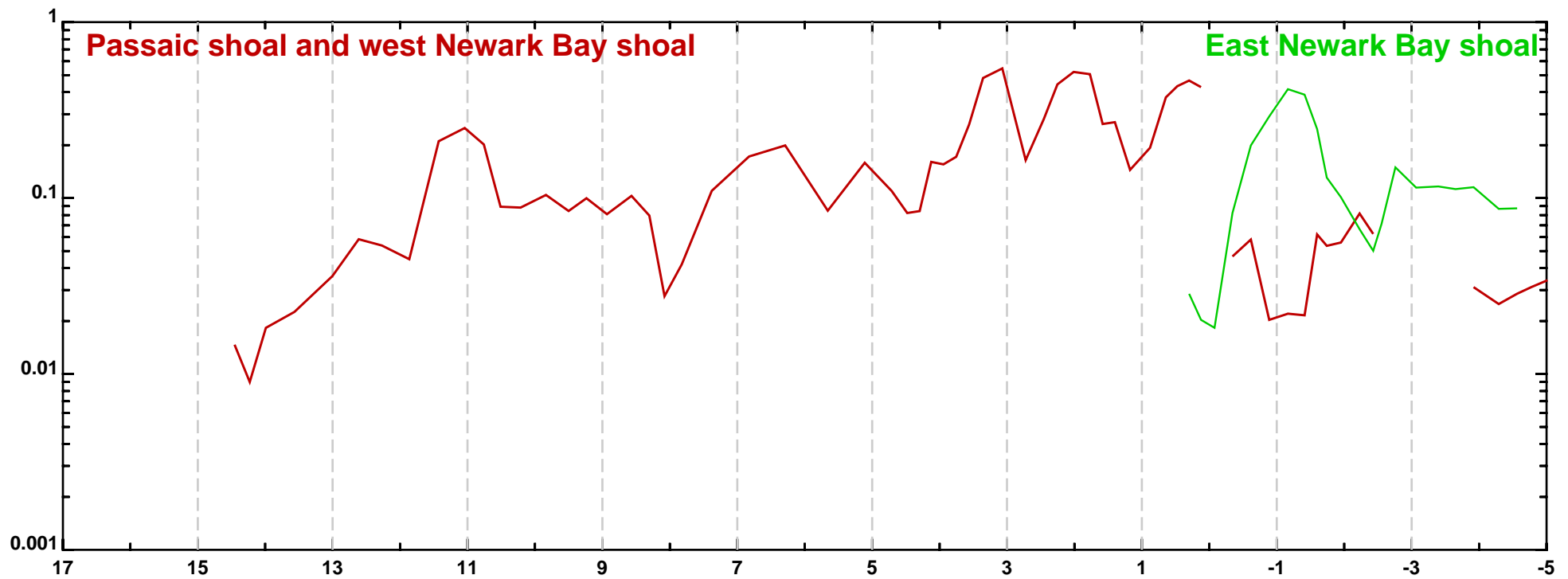
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

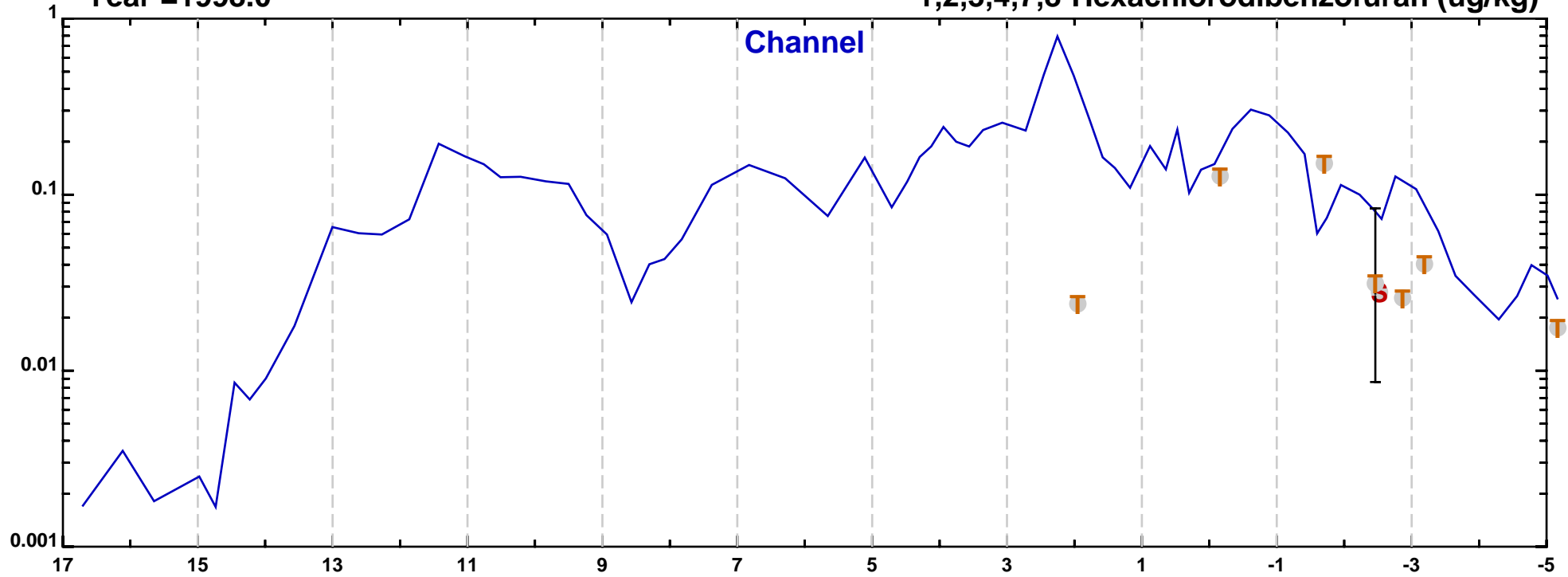




Year =1998.0

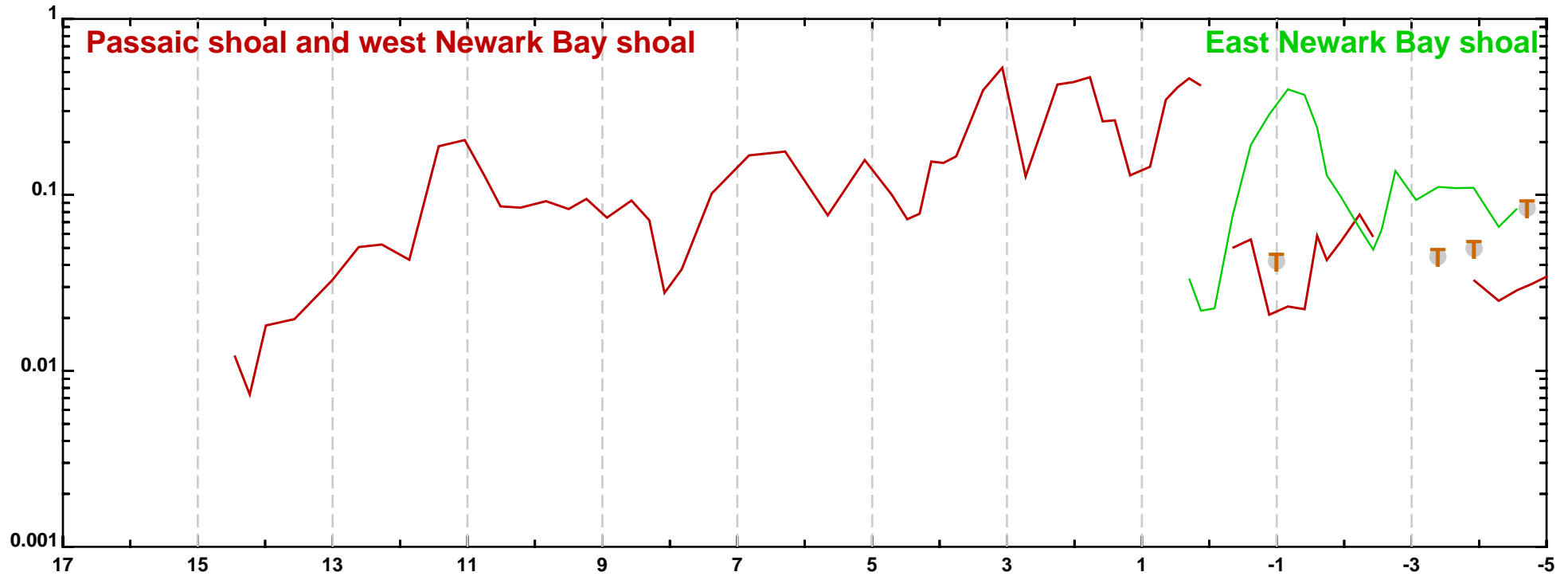
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

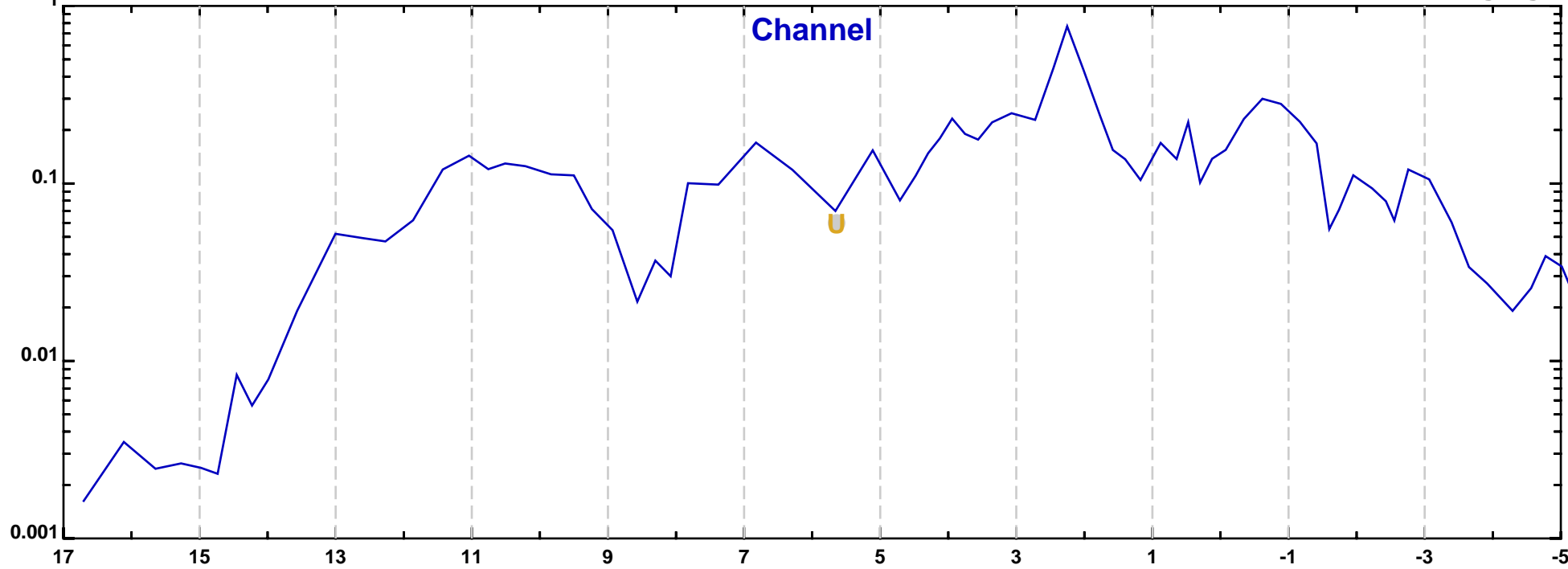


River Mile

Year =1999.0

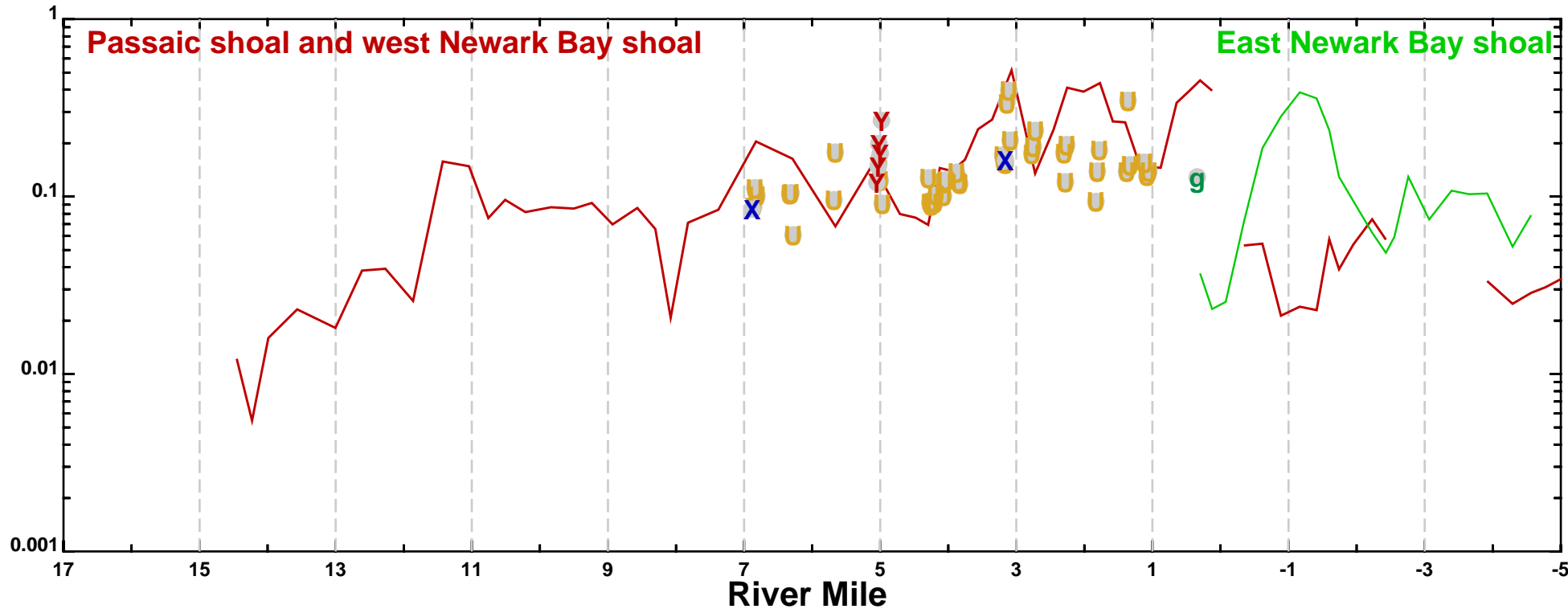
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

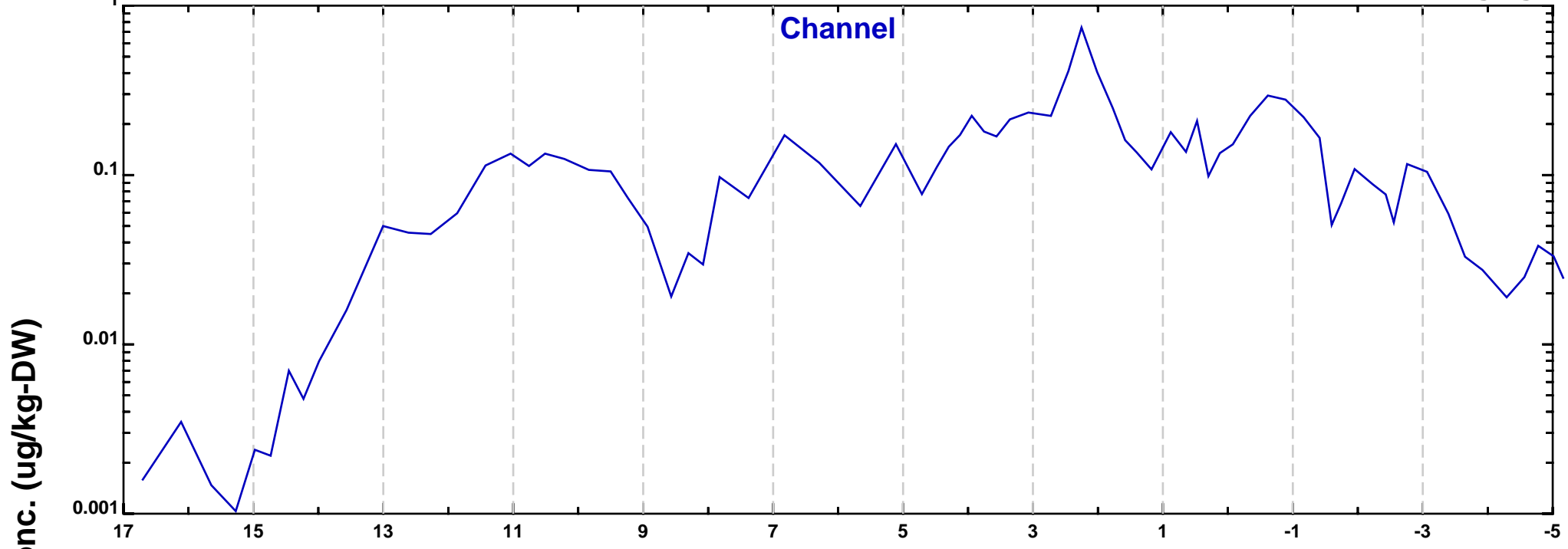
East Newark Bay shoal



River Mile

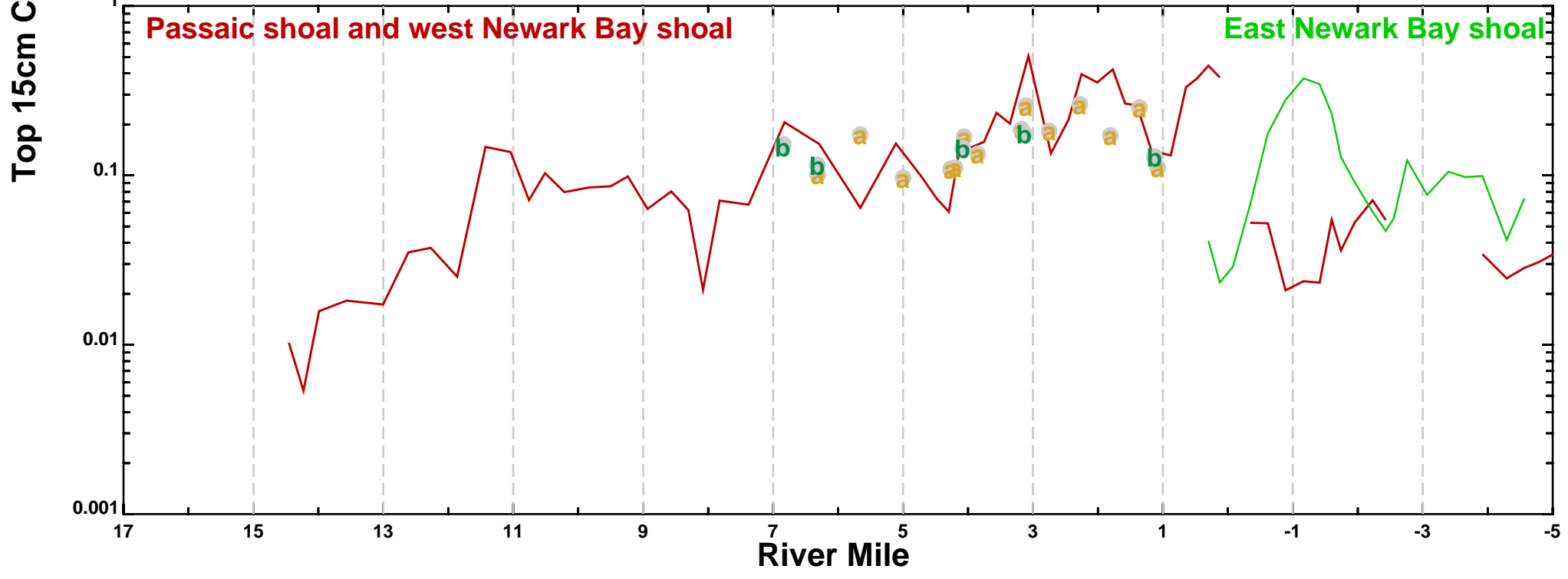
Year =2000.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**

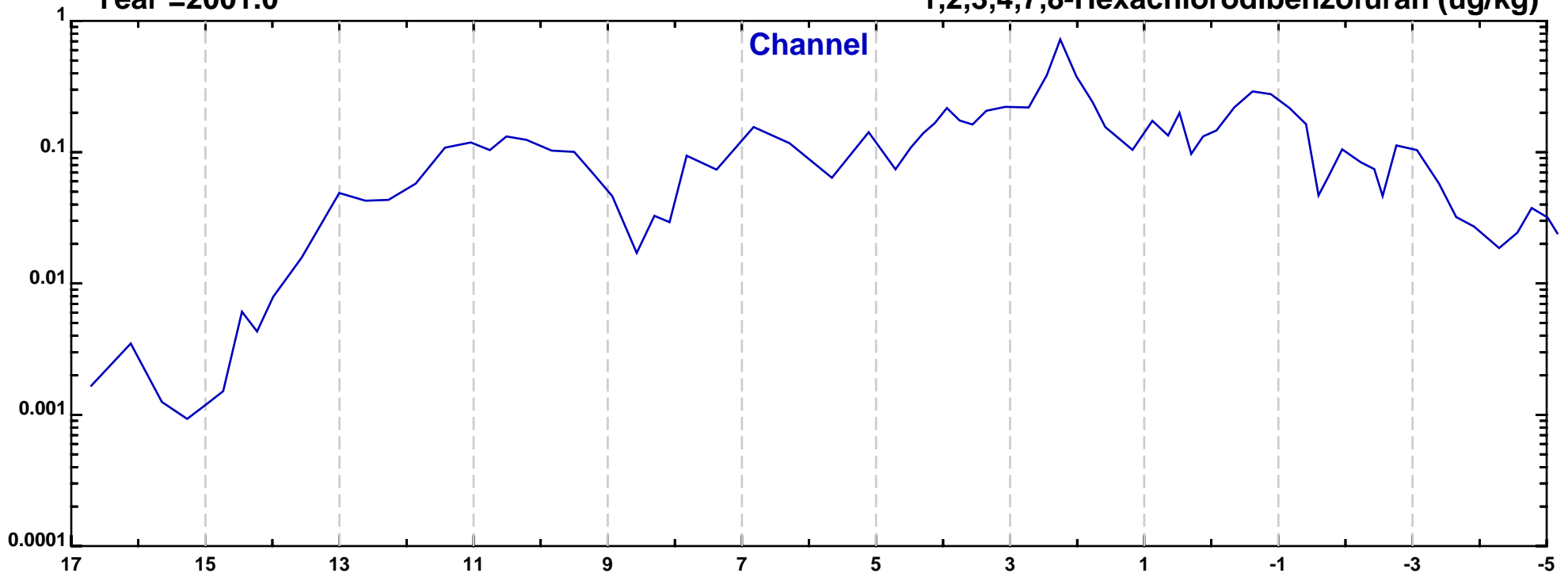


Year =2001.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

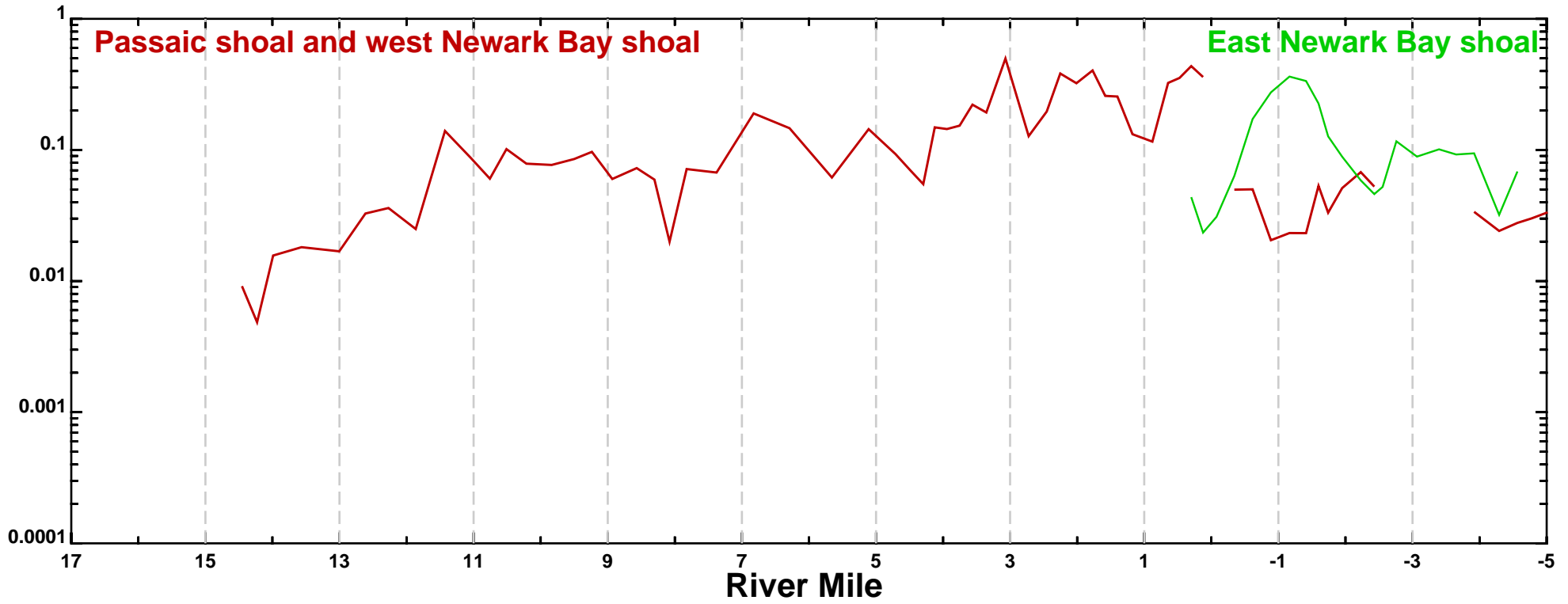
Top 15cm Conc. (ug/kg-DW)

Channel



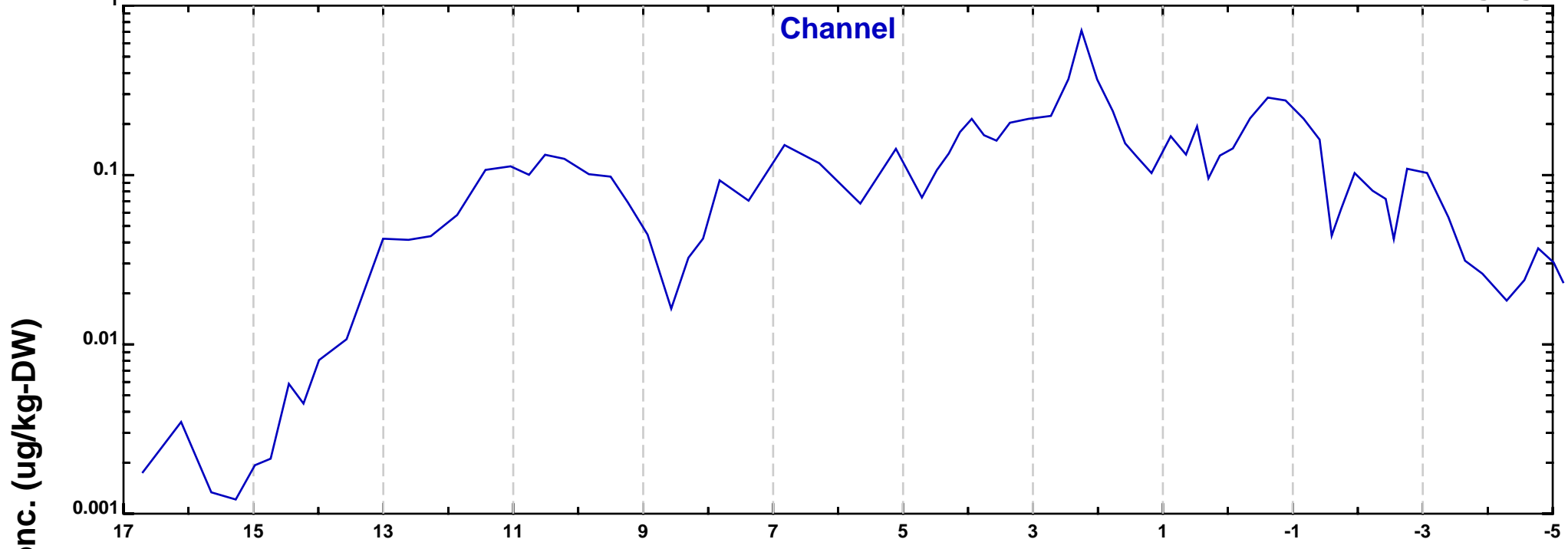
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



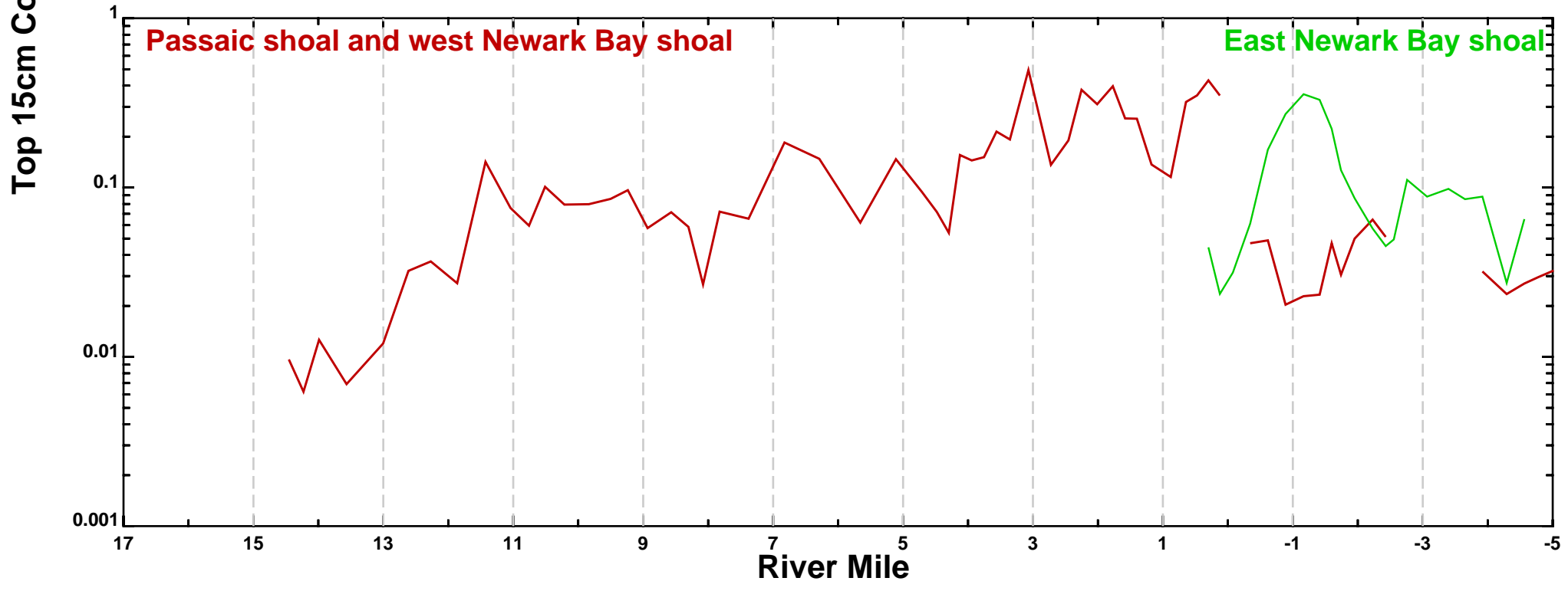
Year =2002.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

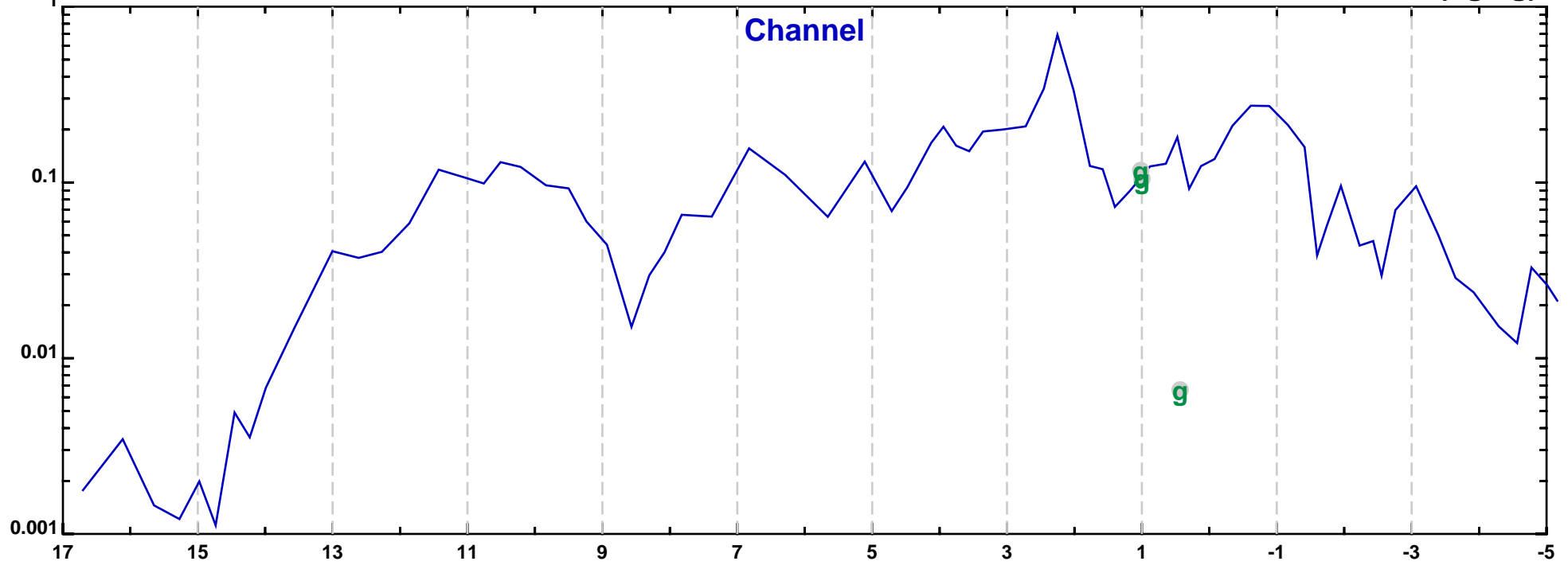
East Newark Bay shoal



Year =2003.0

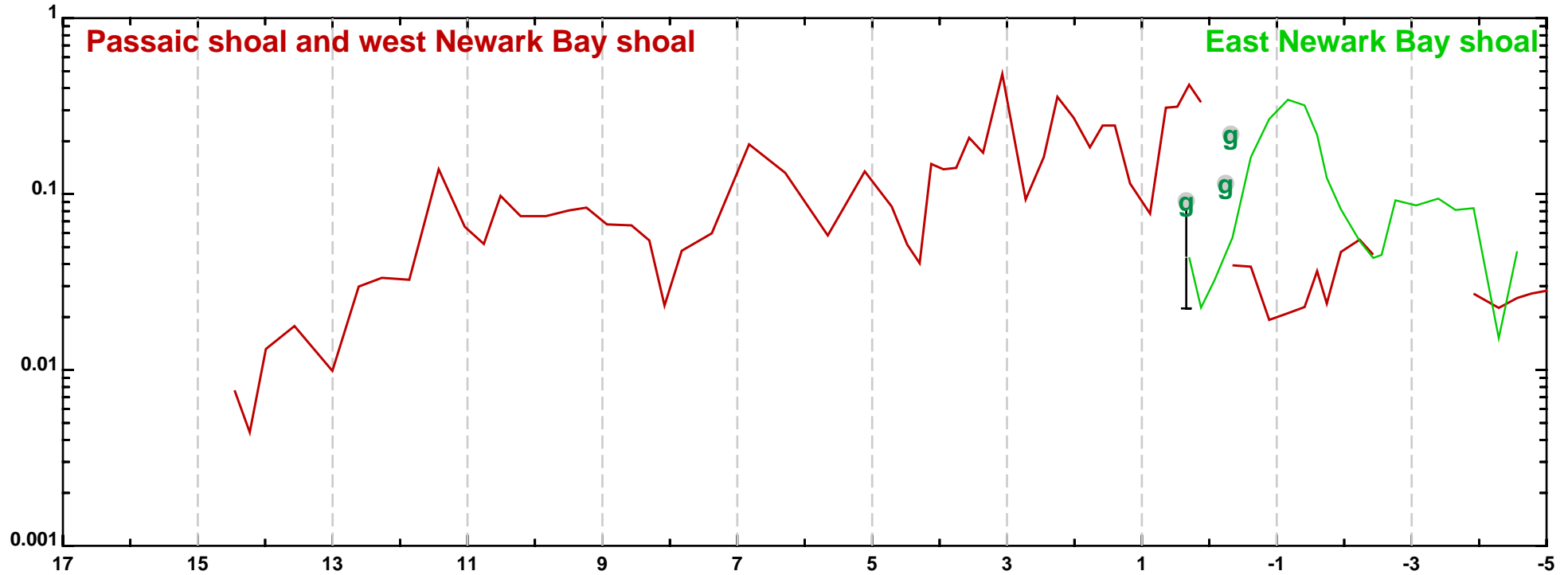
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



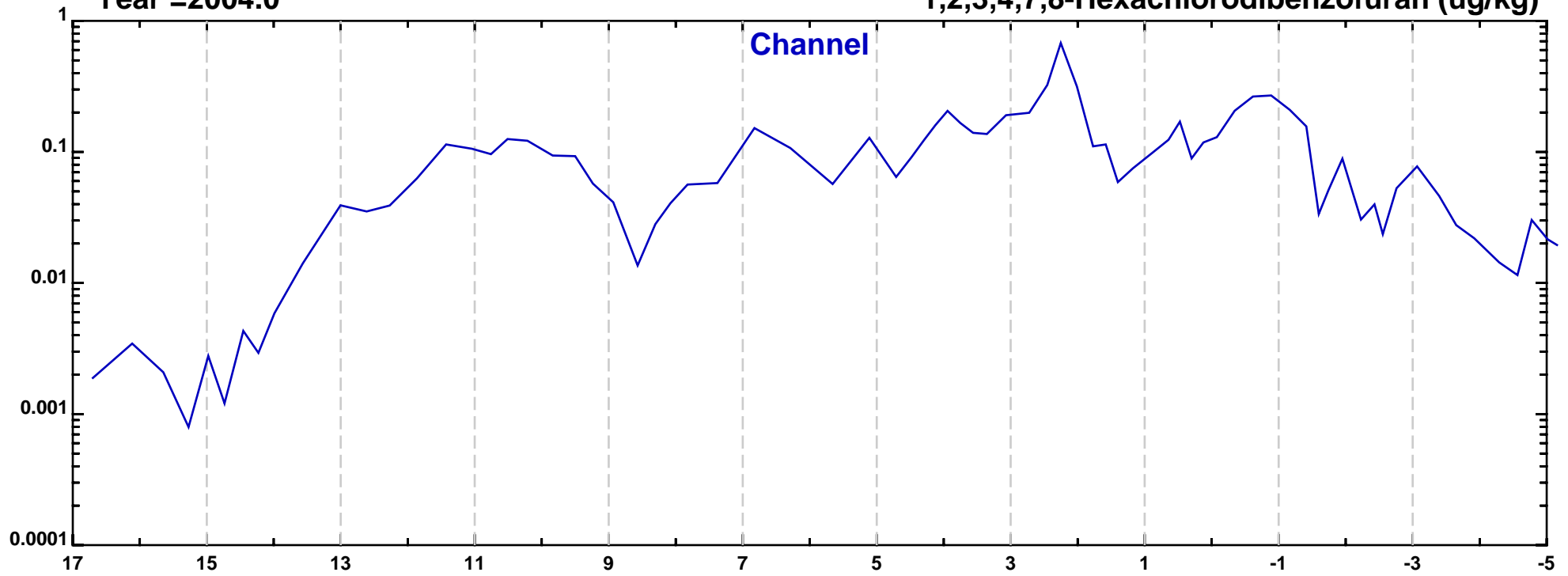
River Mile

Year =2004.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

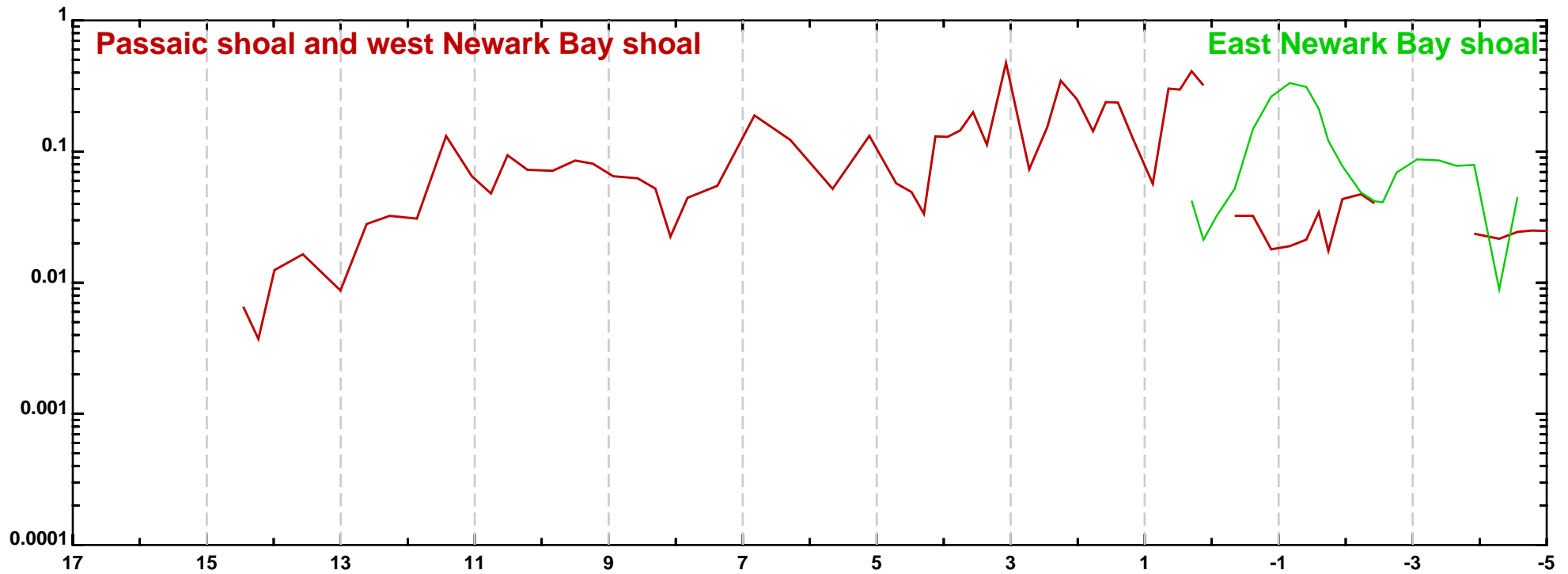
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

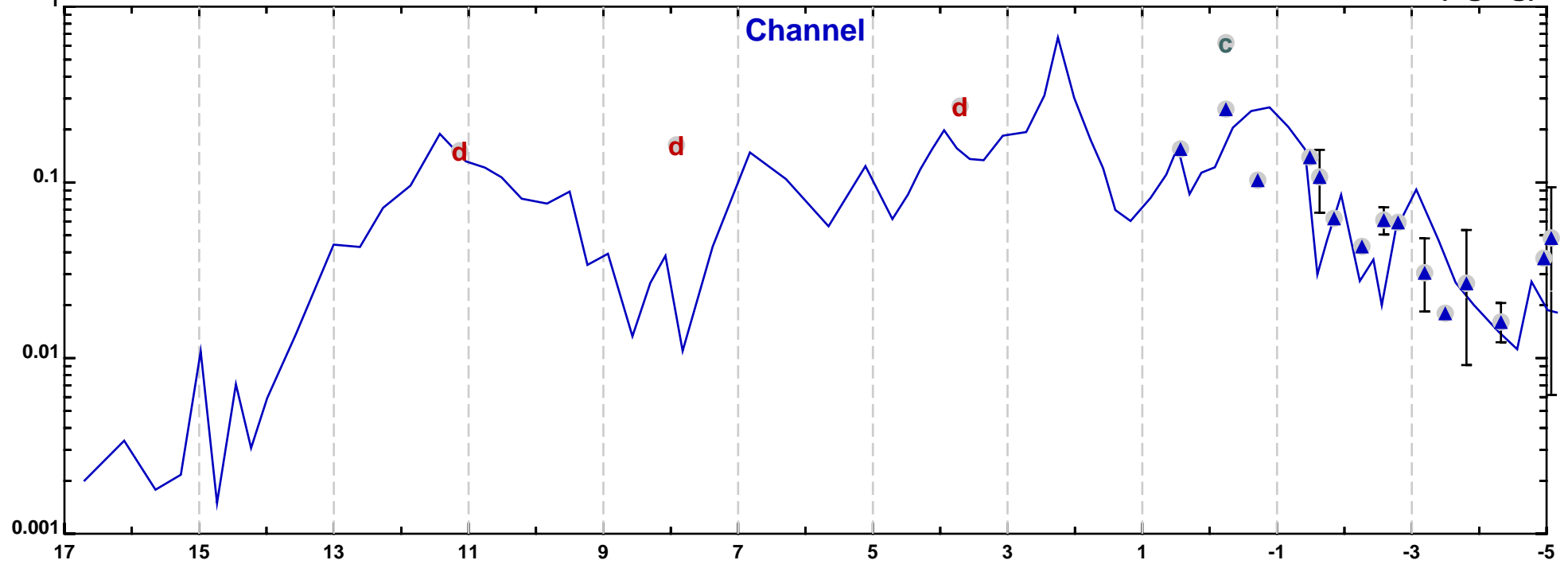
East Newark Bay shoal



Year =2005.0

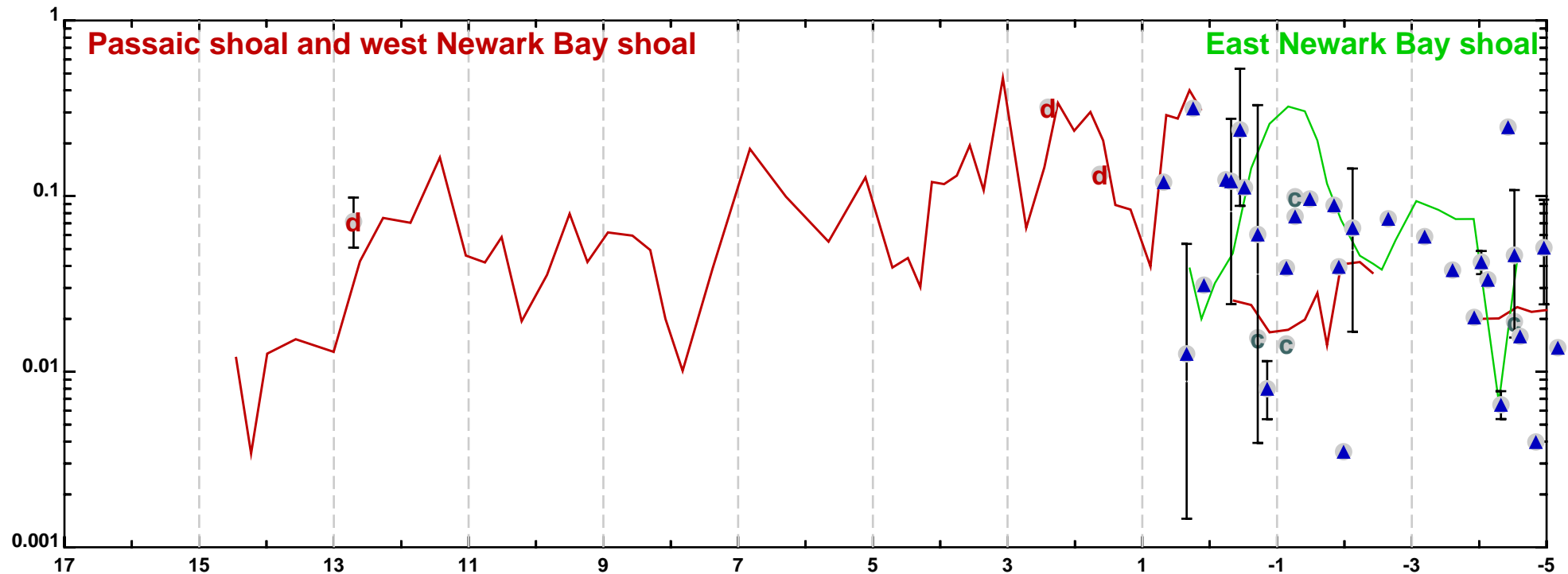
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

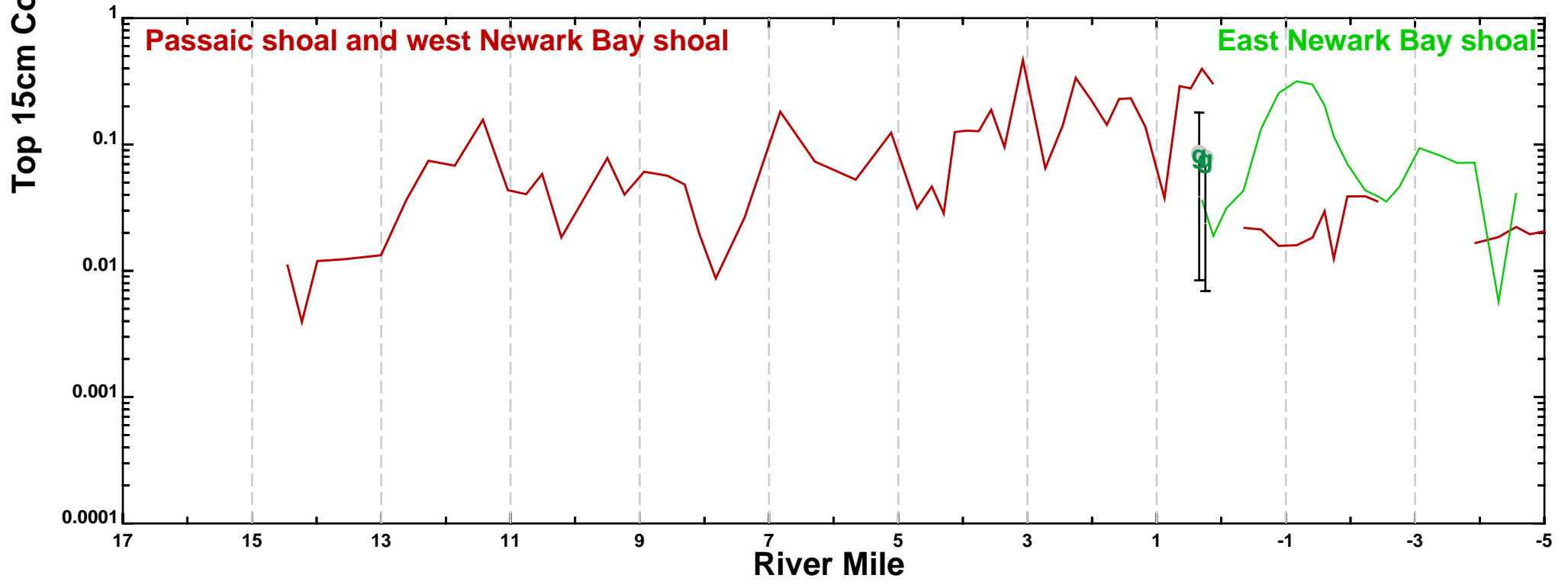
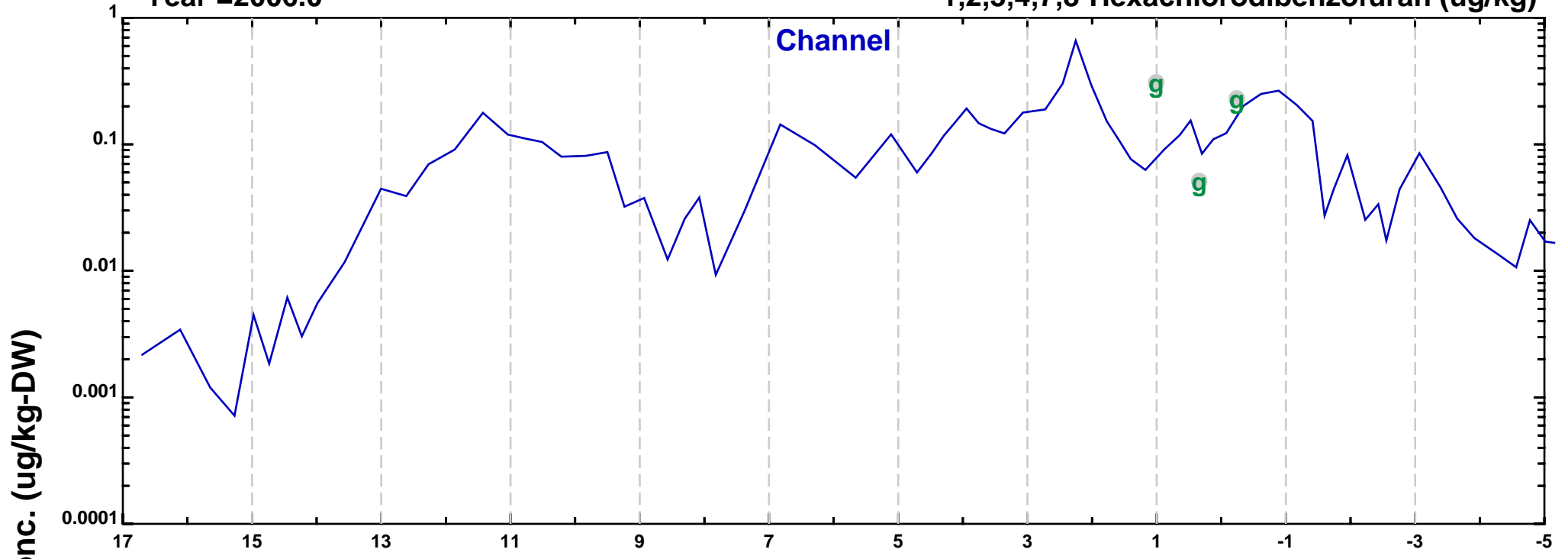


River Mile



Year =2006.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

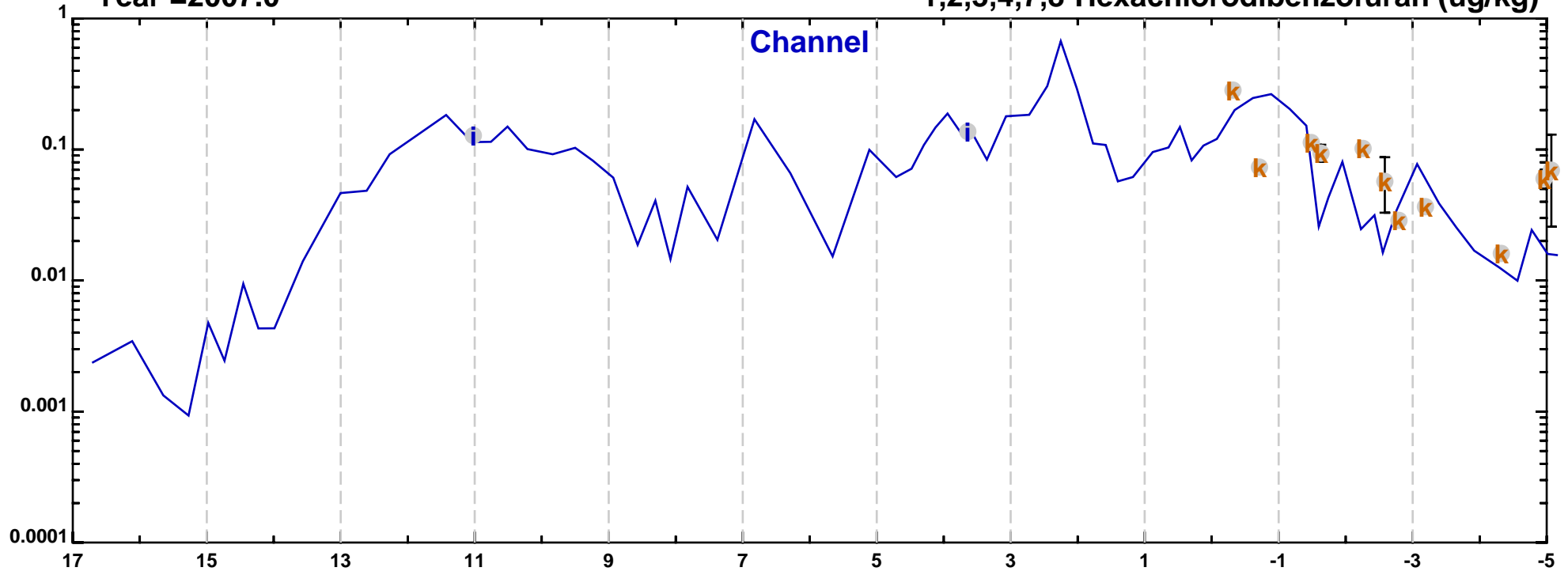


Year =2007.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

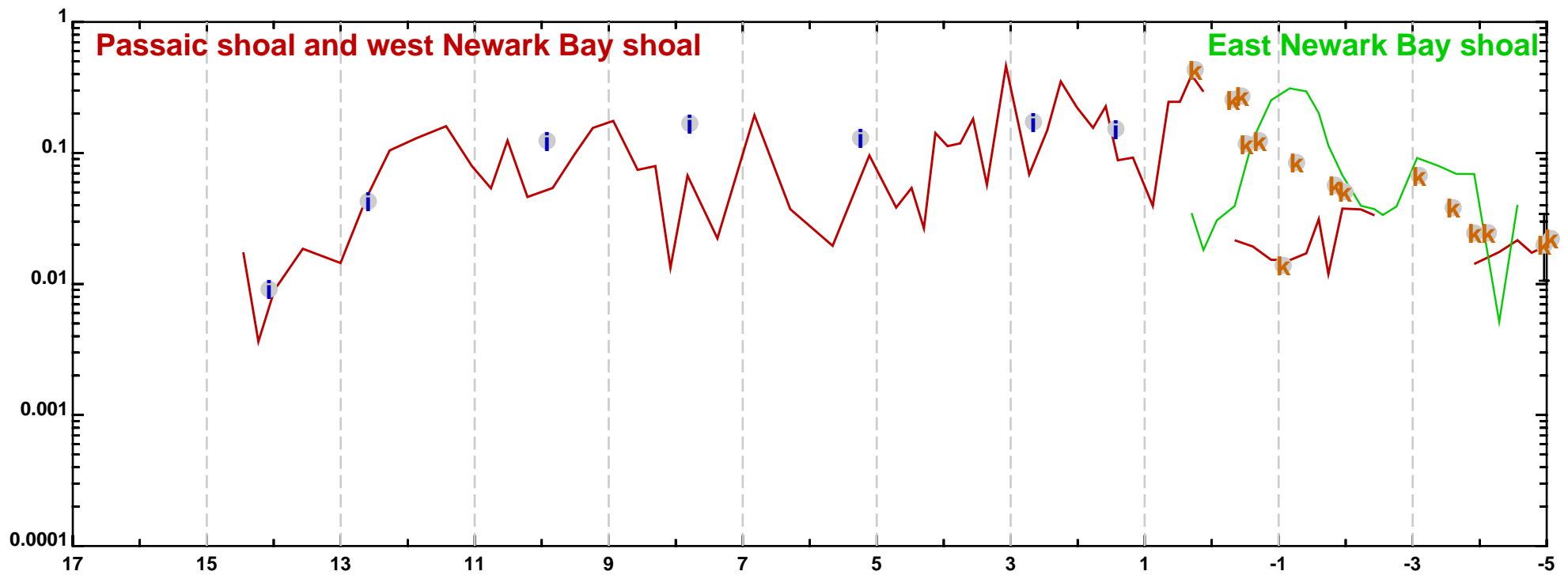
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



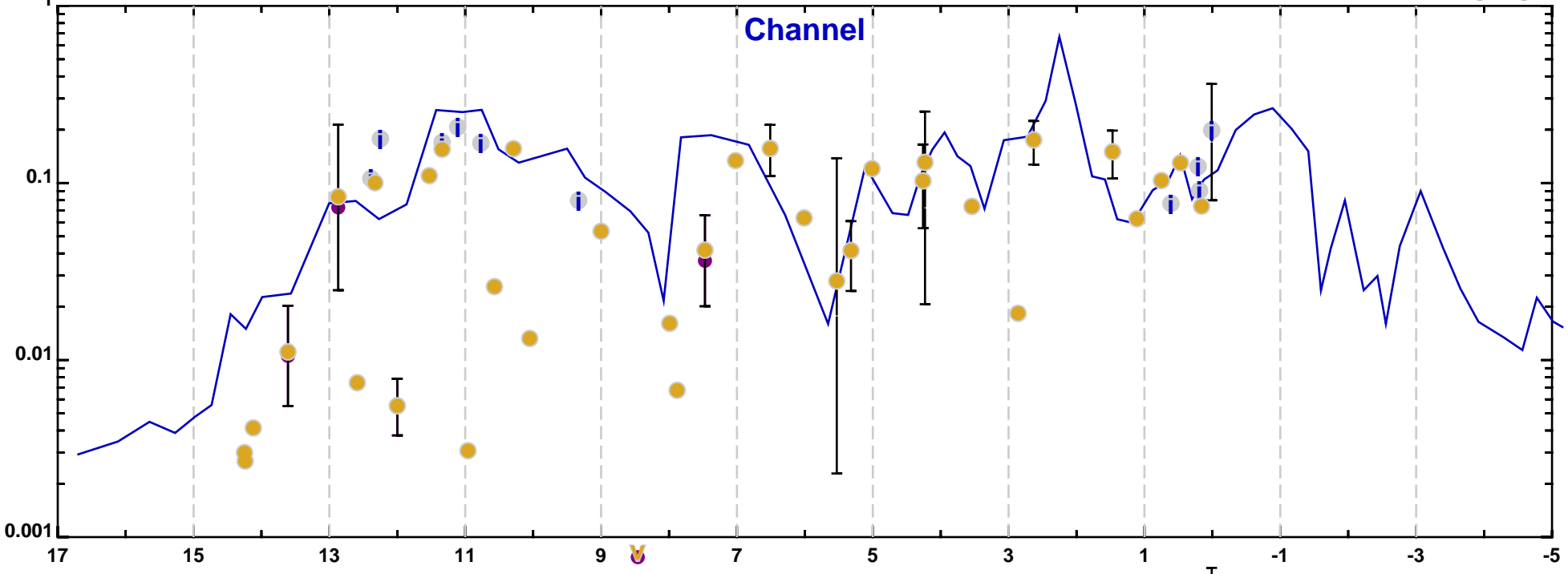
River Mile

Year =2008.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

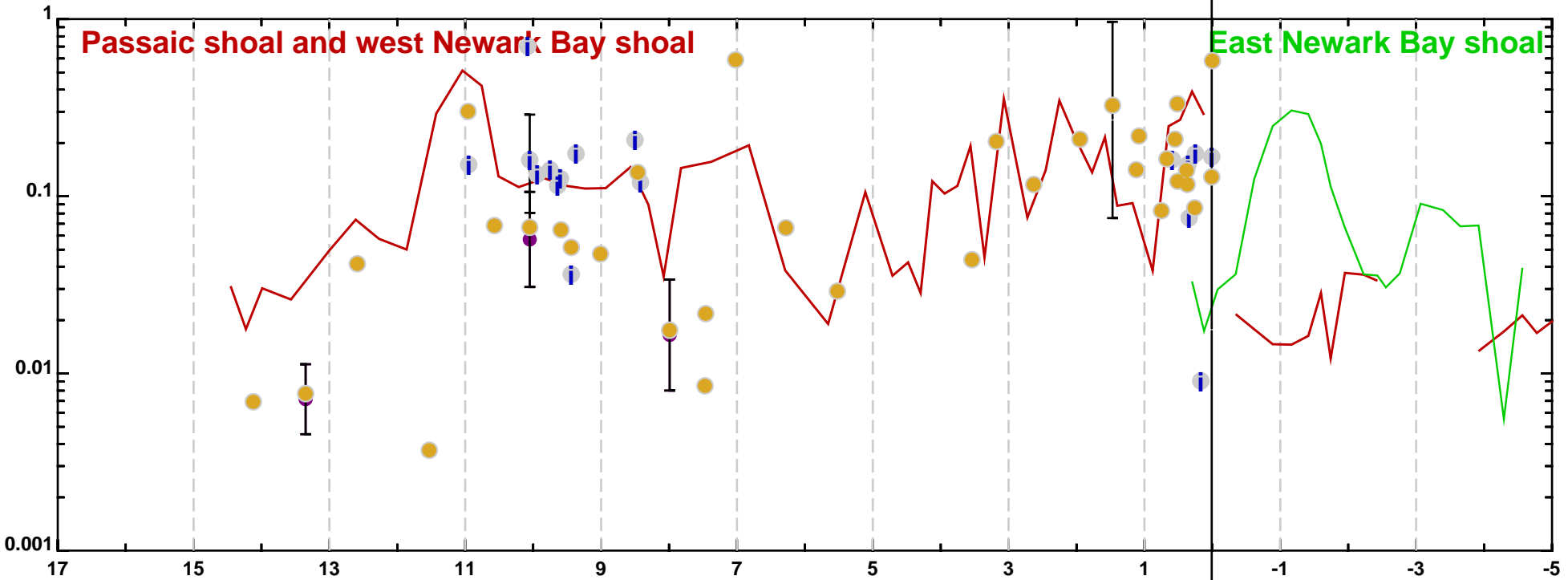
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



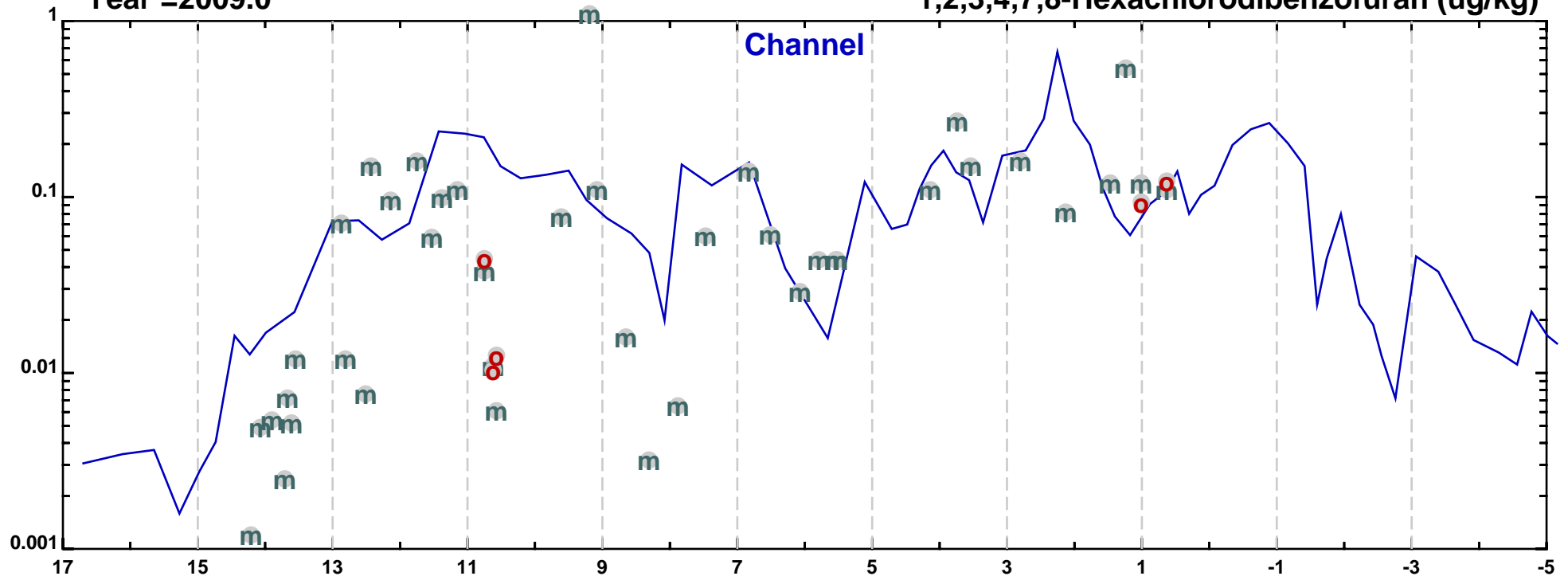
River Mile

Year =2009.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

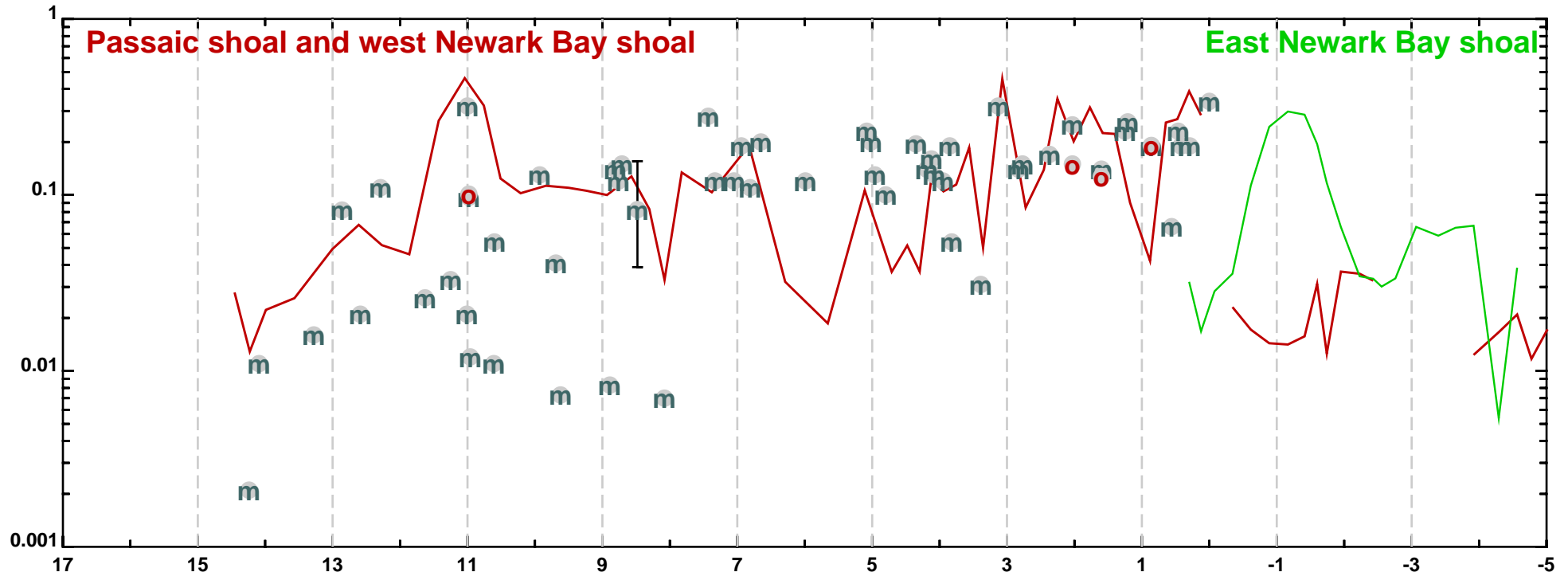
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



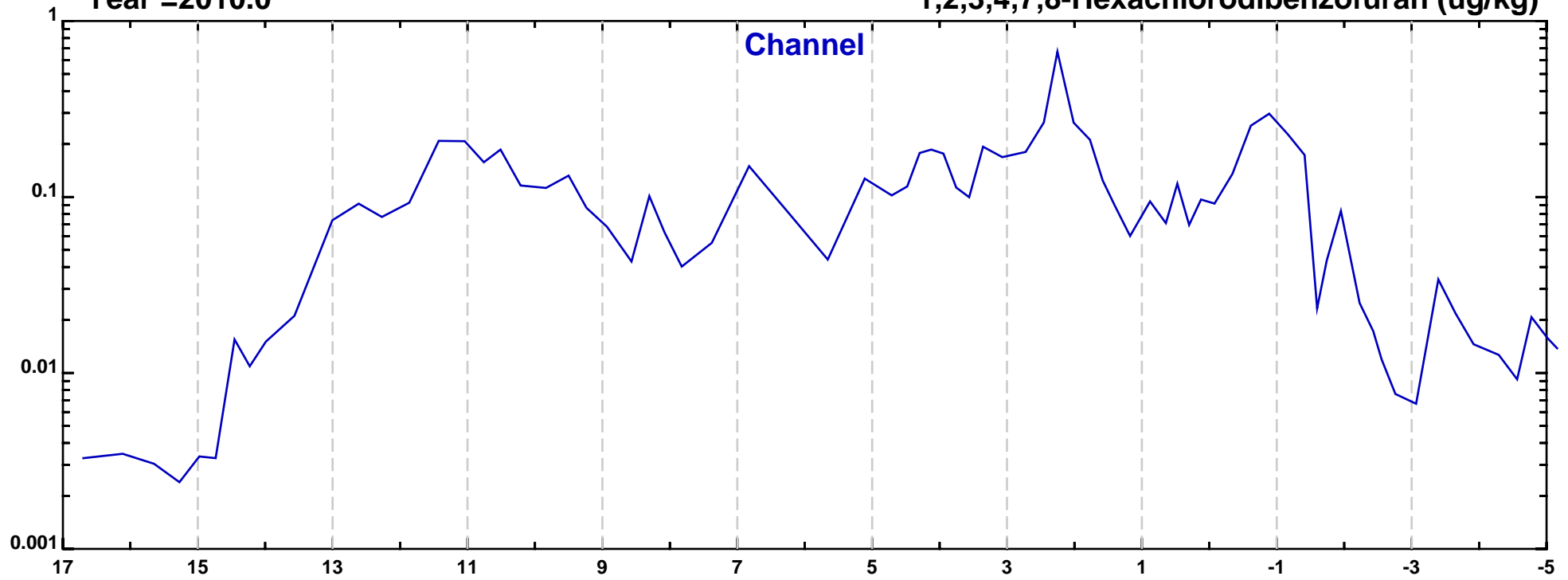
River Mile

Year =2010.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

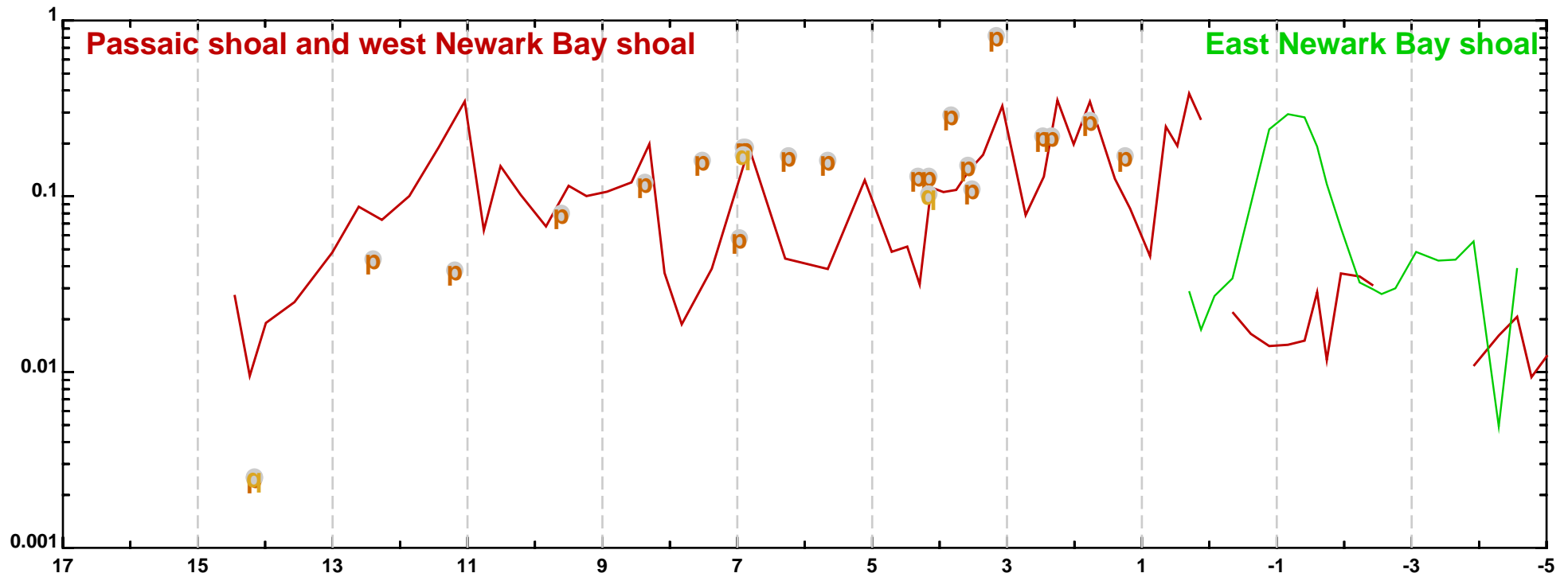
Top 15cm Conc. (ug/kg-DW)

Channel

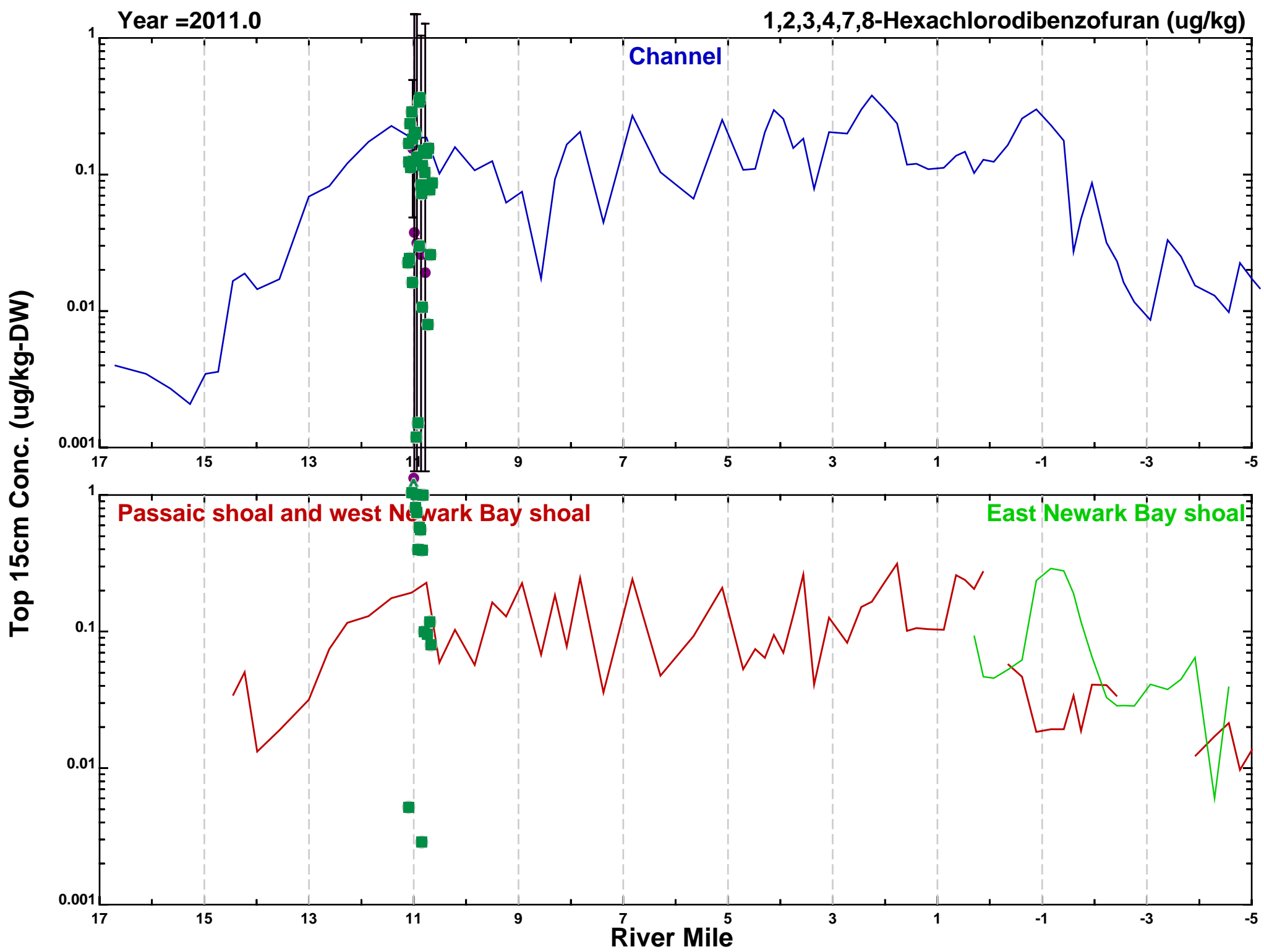


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



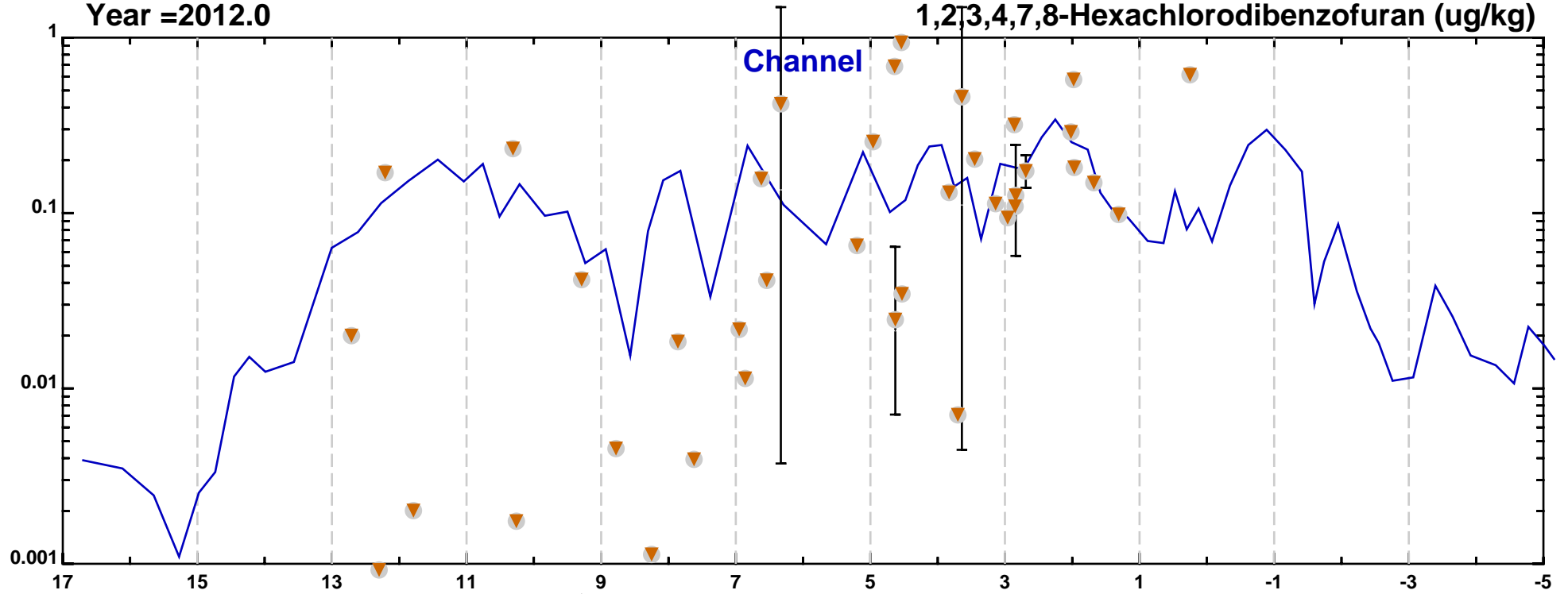
River Mile



Year =2012.0

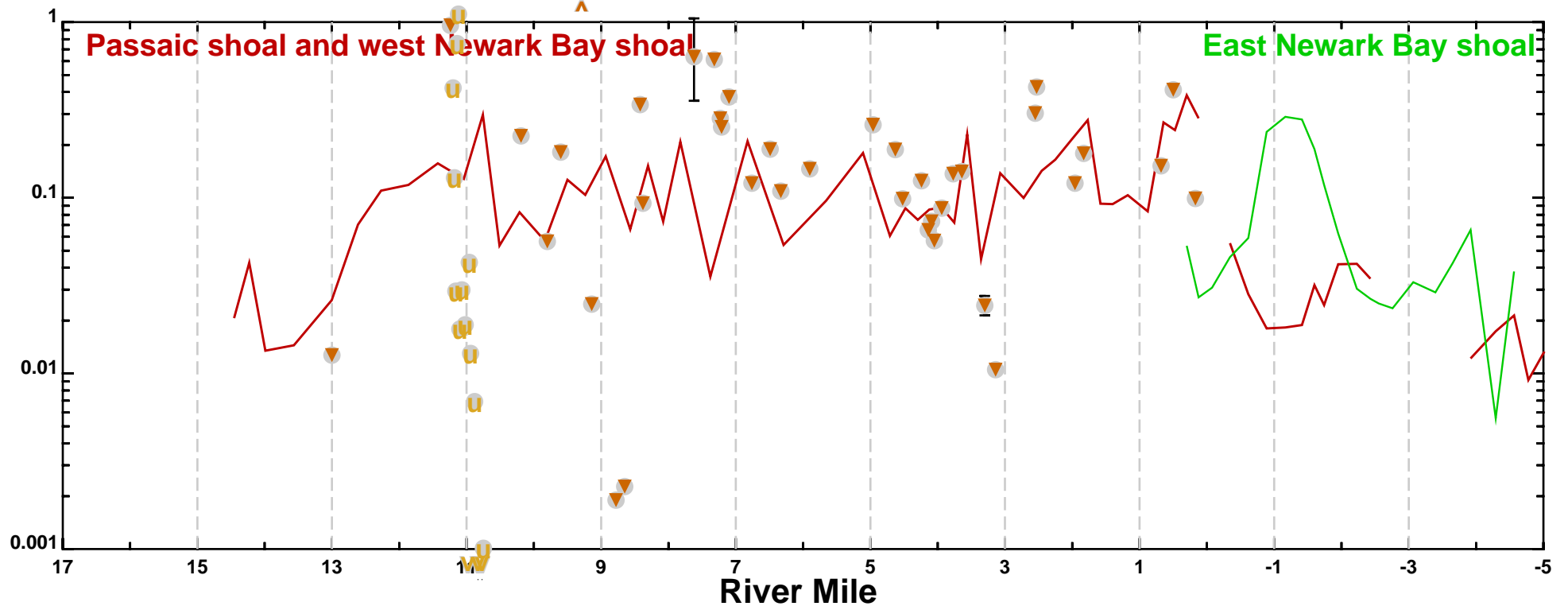
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

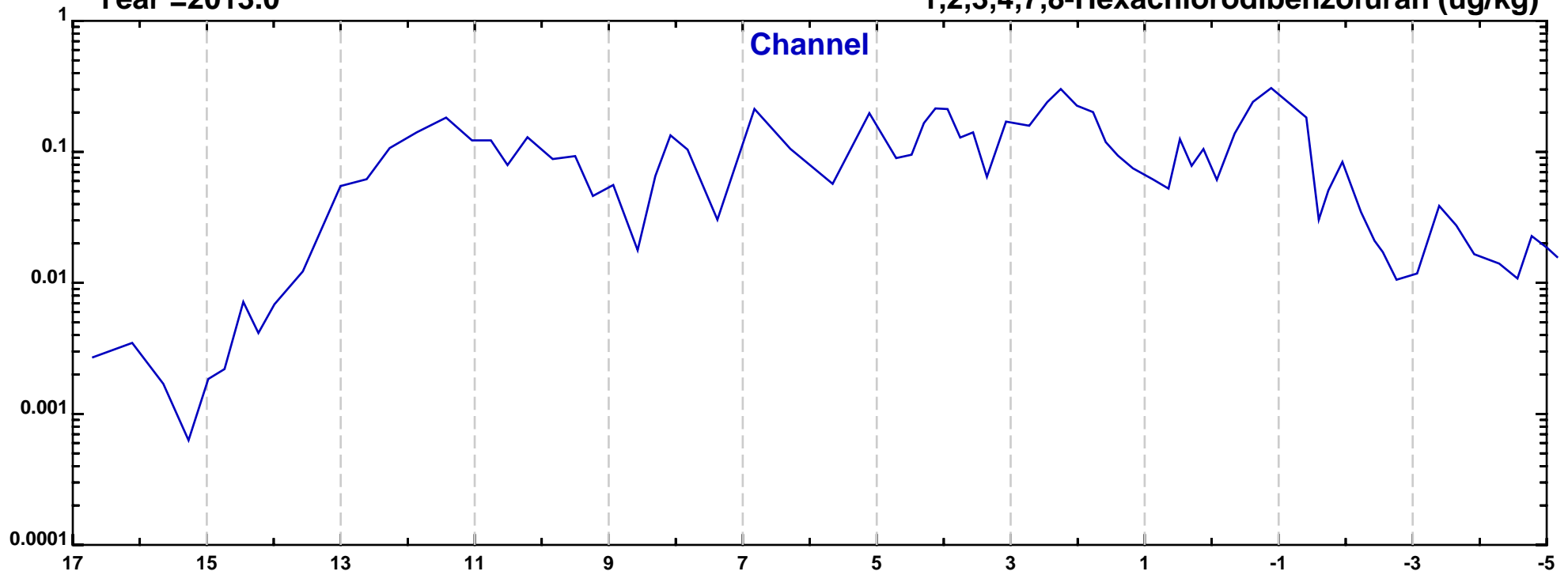


Year =2013.0

1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg)

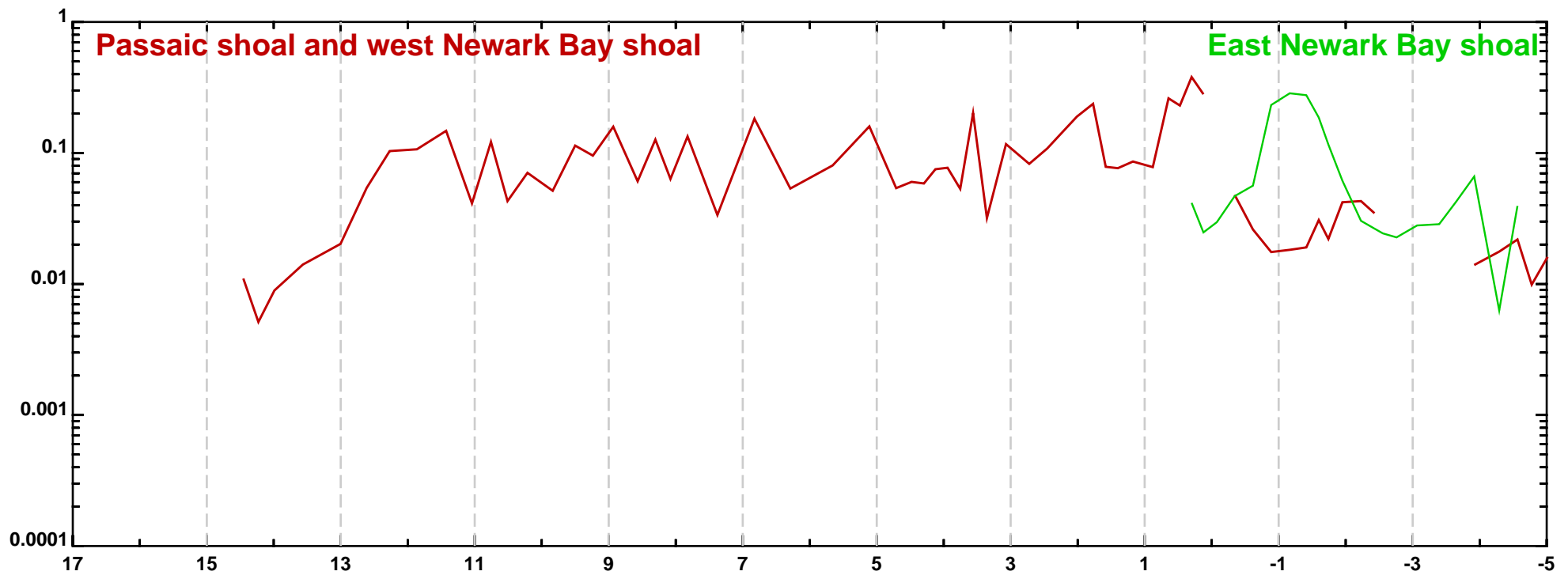
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

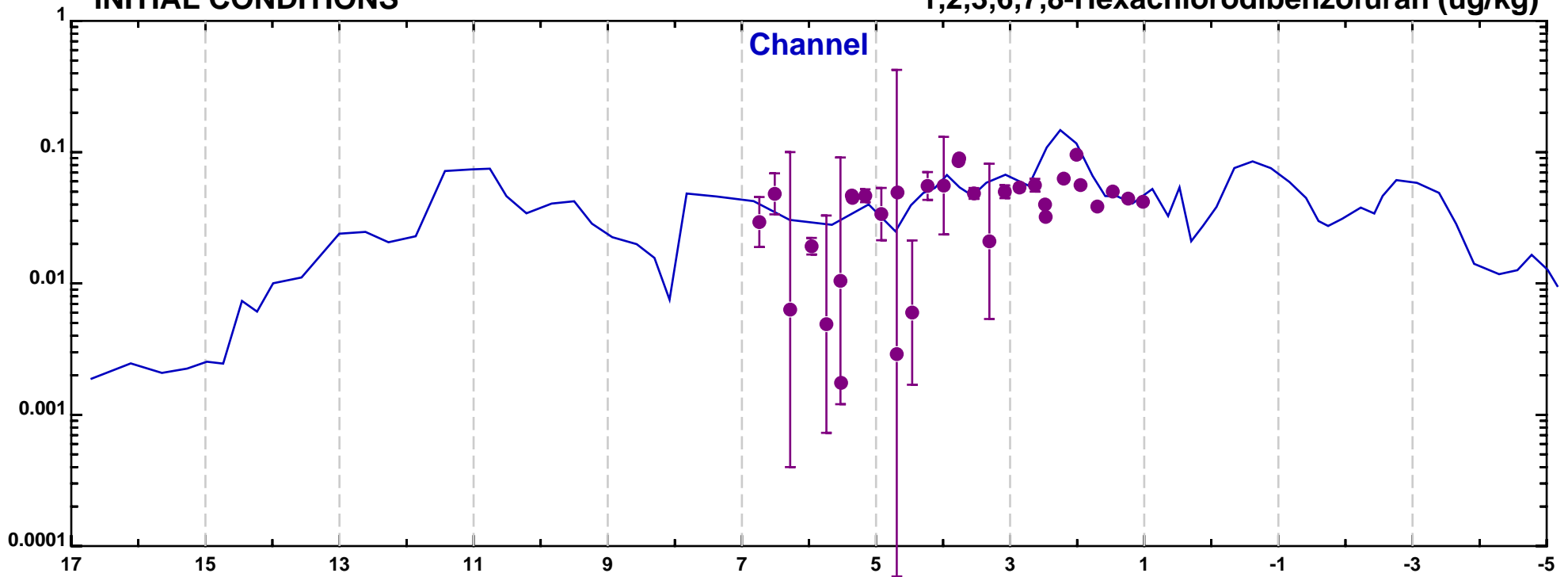


**INITIAL CONDITIONS**

**1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)**

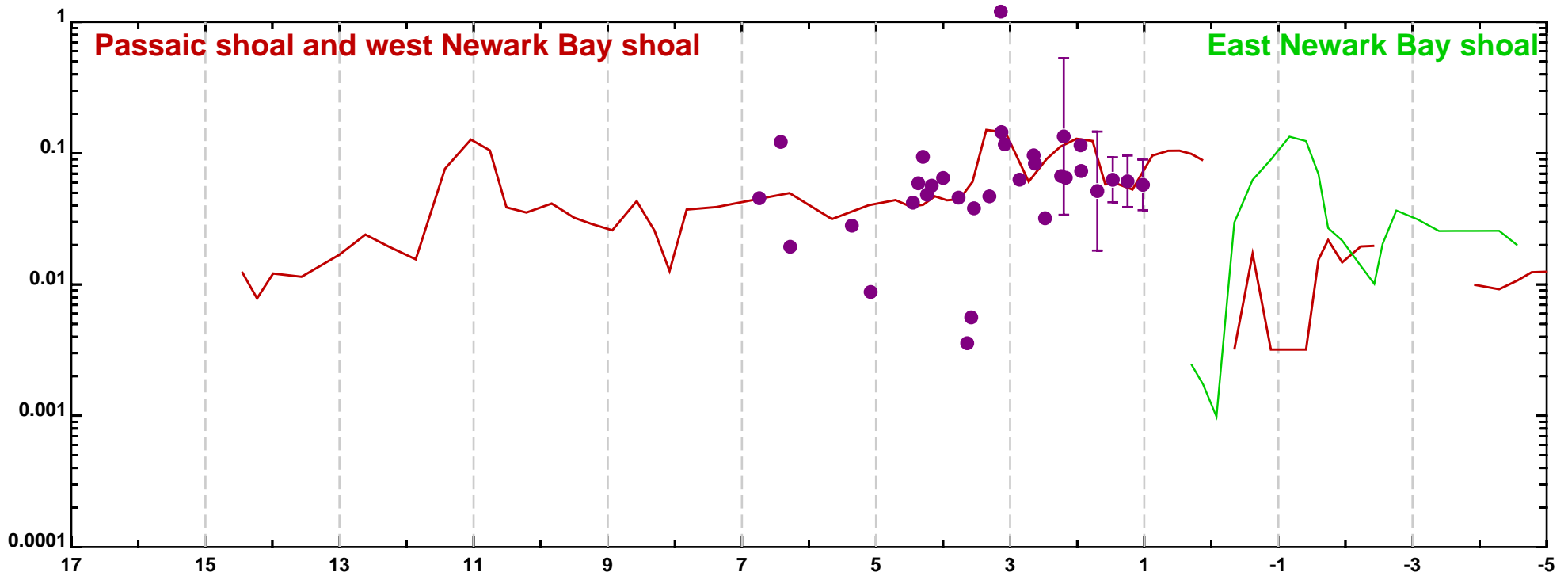
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



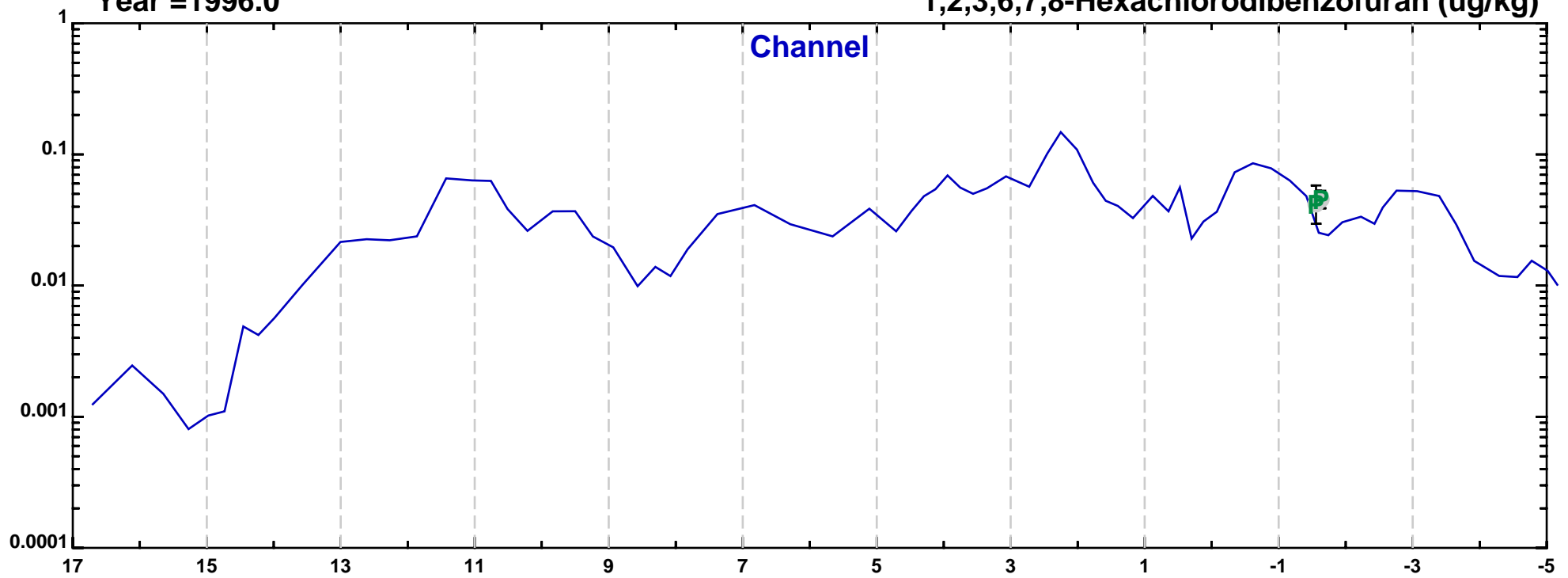
**River Mile**

Year =1996.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

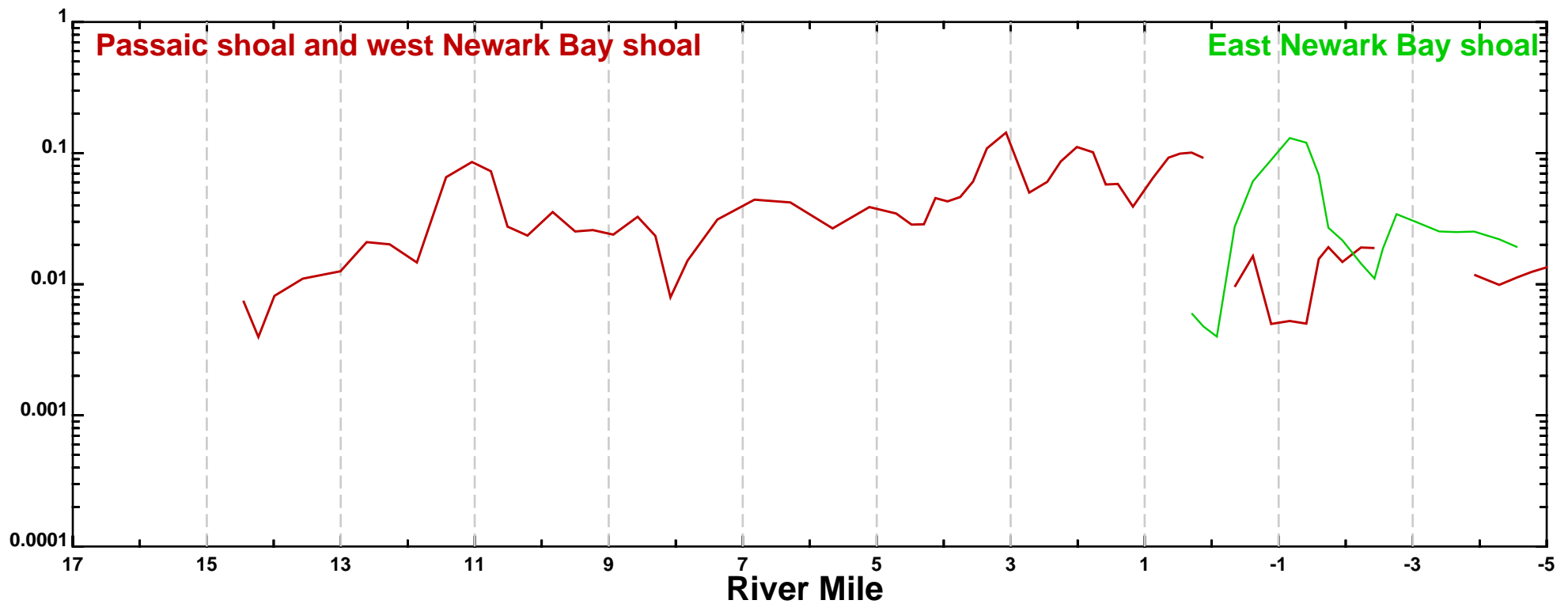
Top 15cm Conc. (ug/kg-DW)

Channel



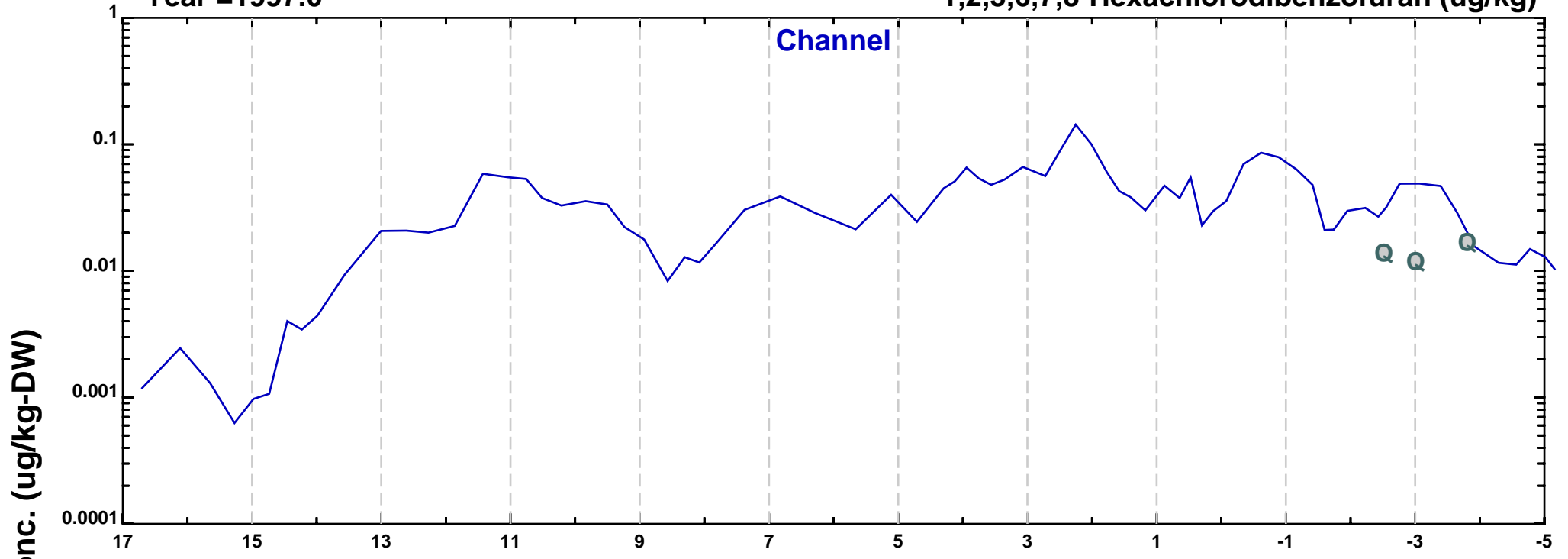
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



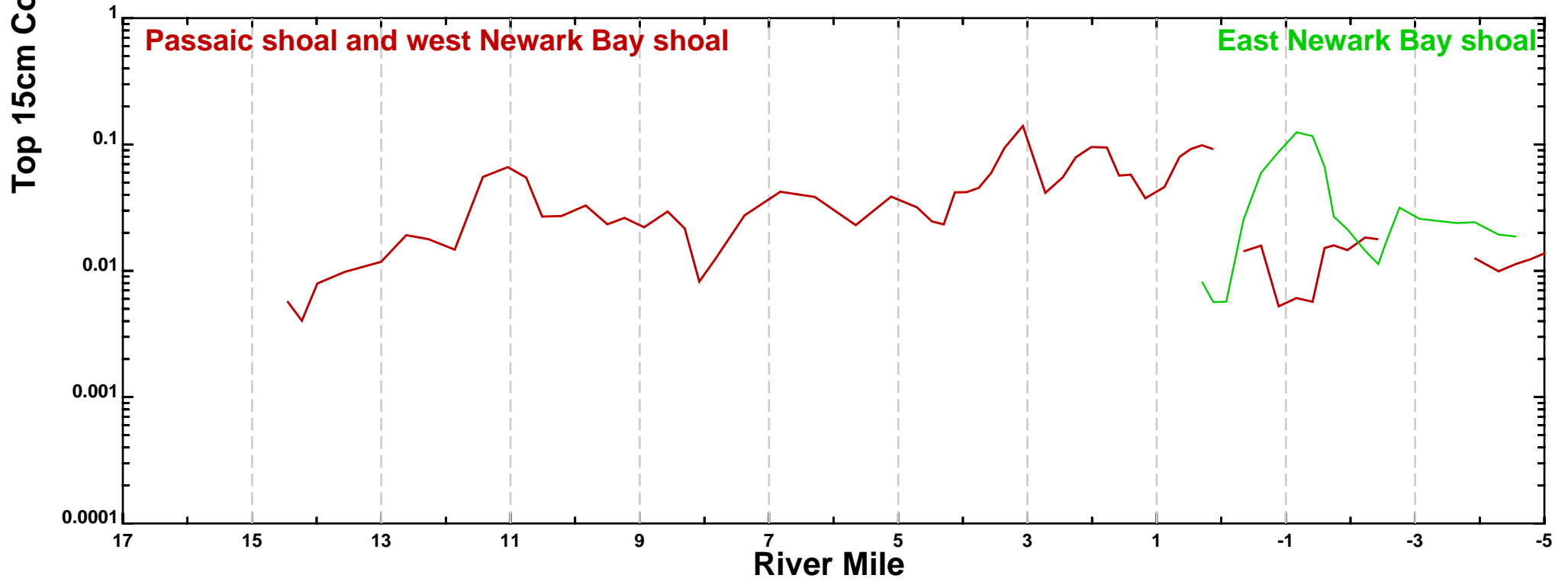
Year = 1997.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

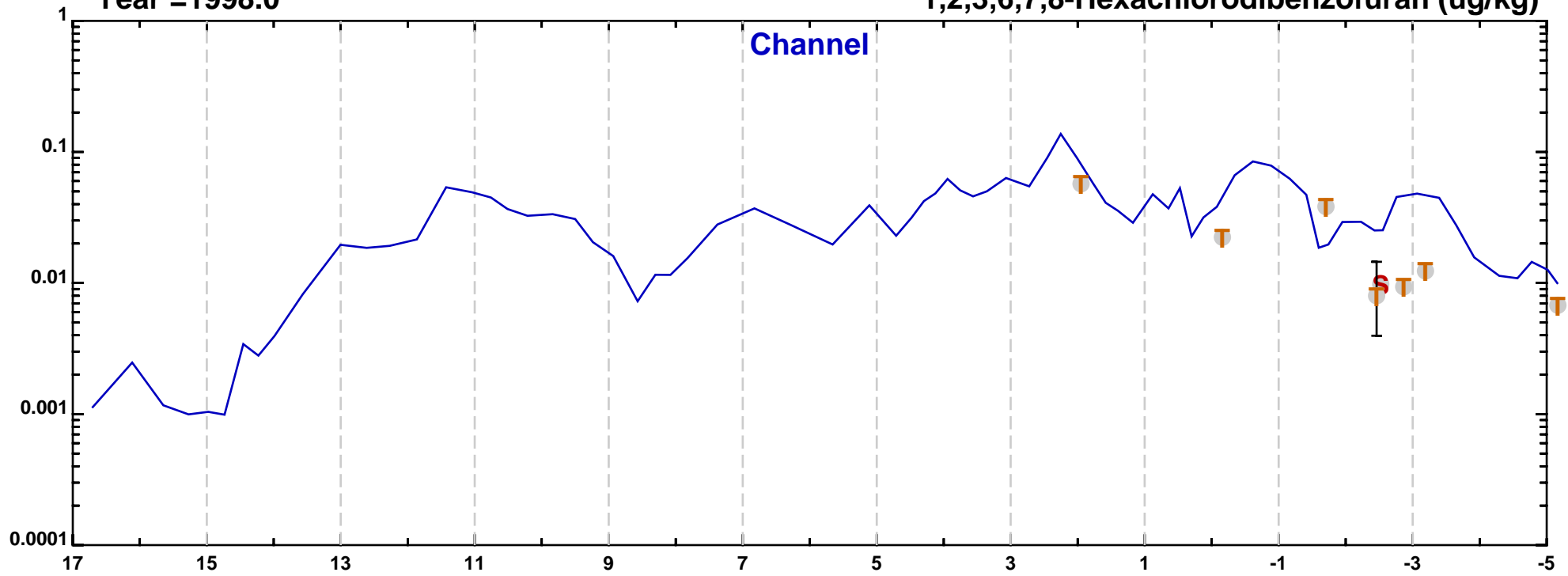


Year =1998.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

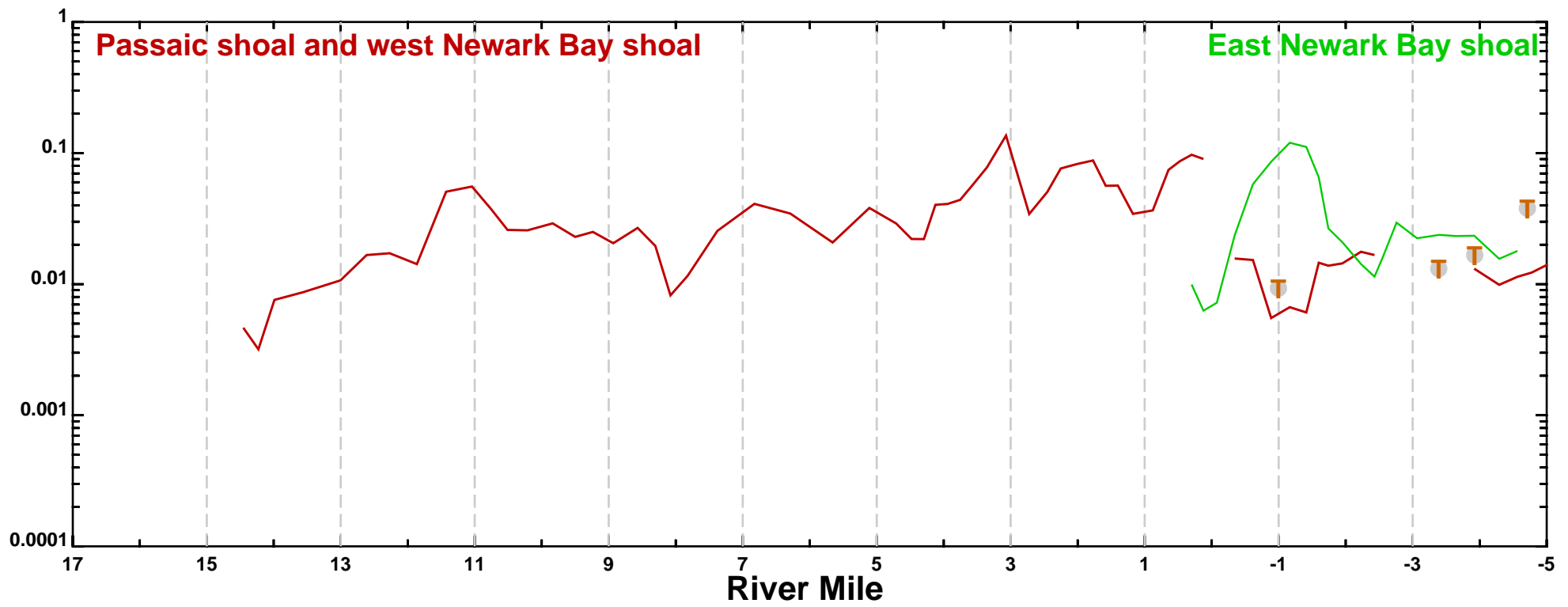
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

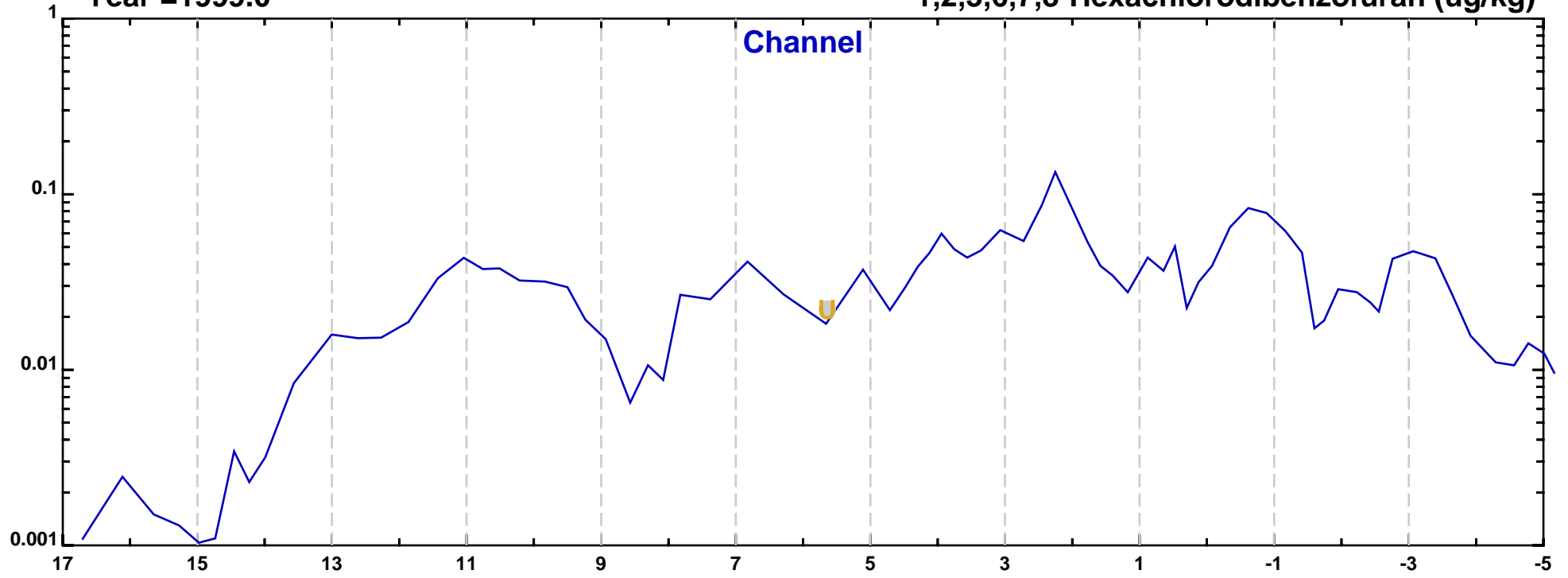
East Newark Bay shoal



Year = 1999.0

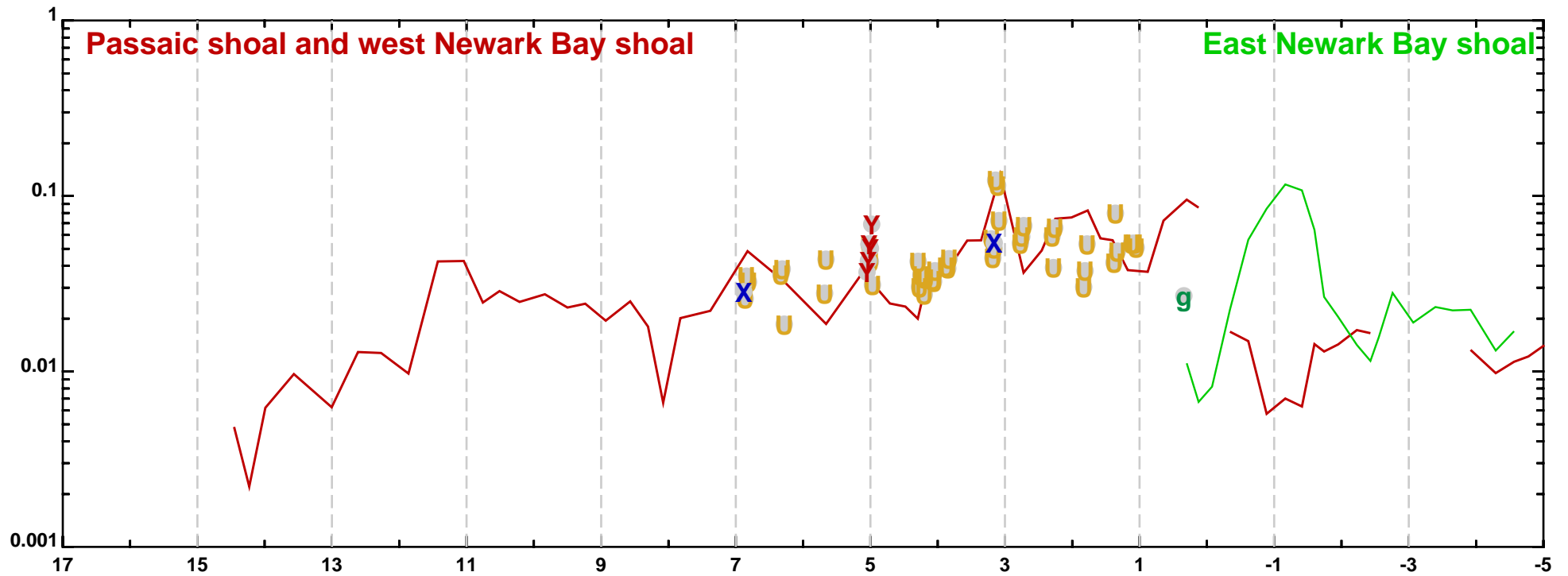
1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

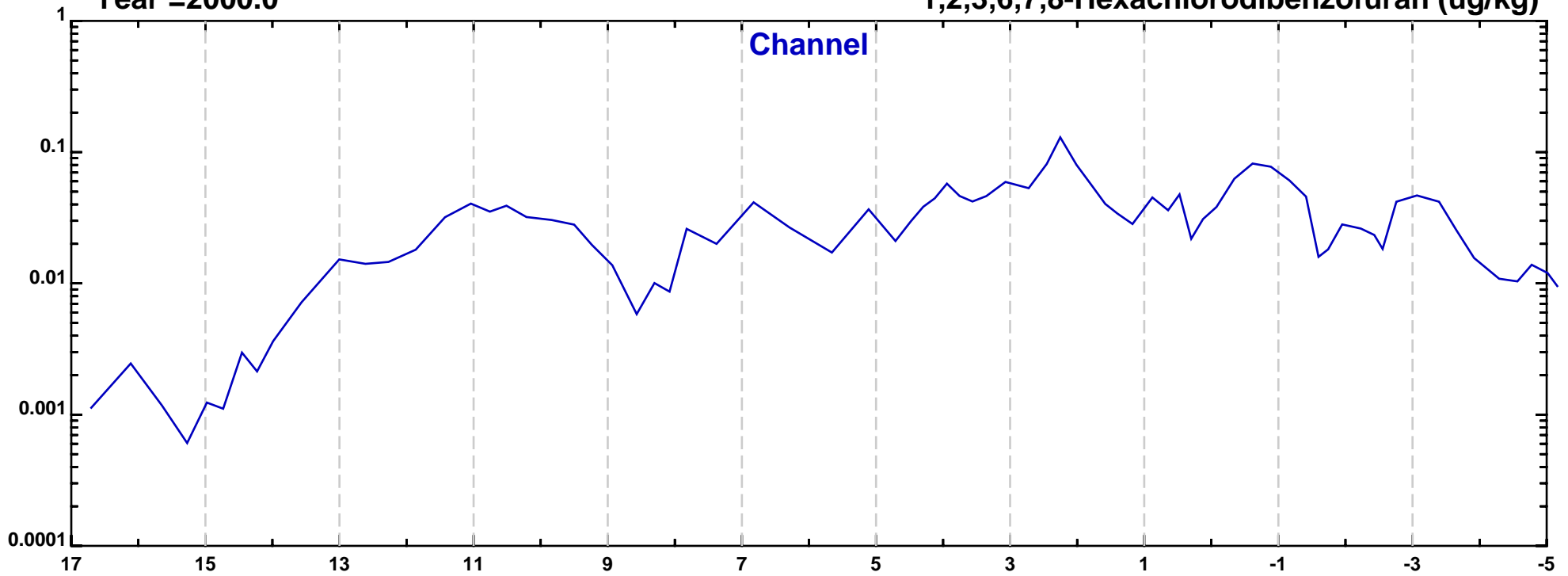


Year =2000.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

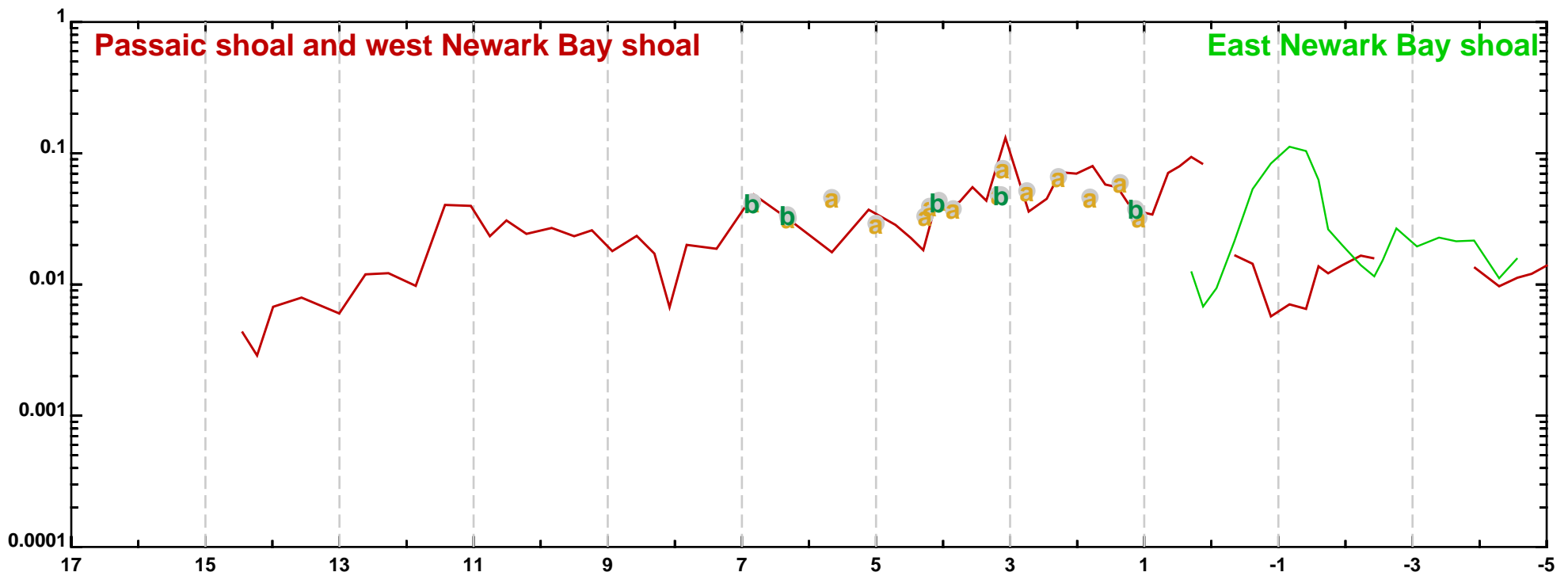
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

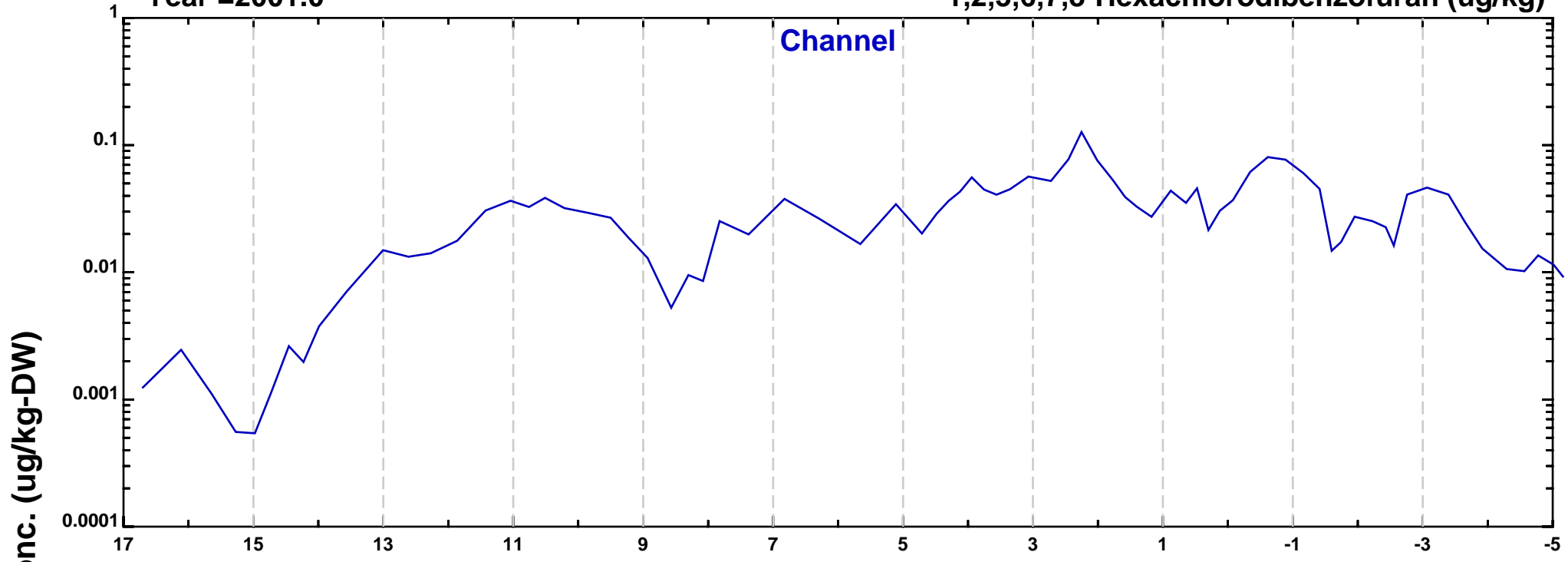
East Newark Bay shoal



River Mile

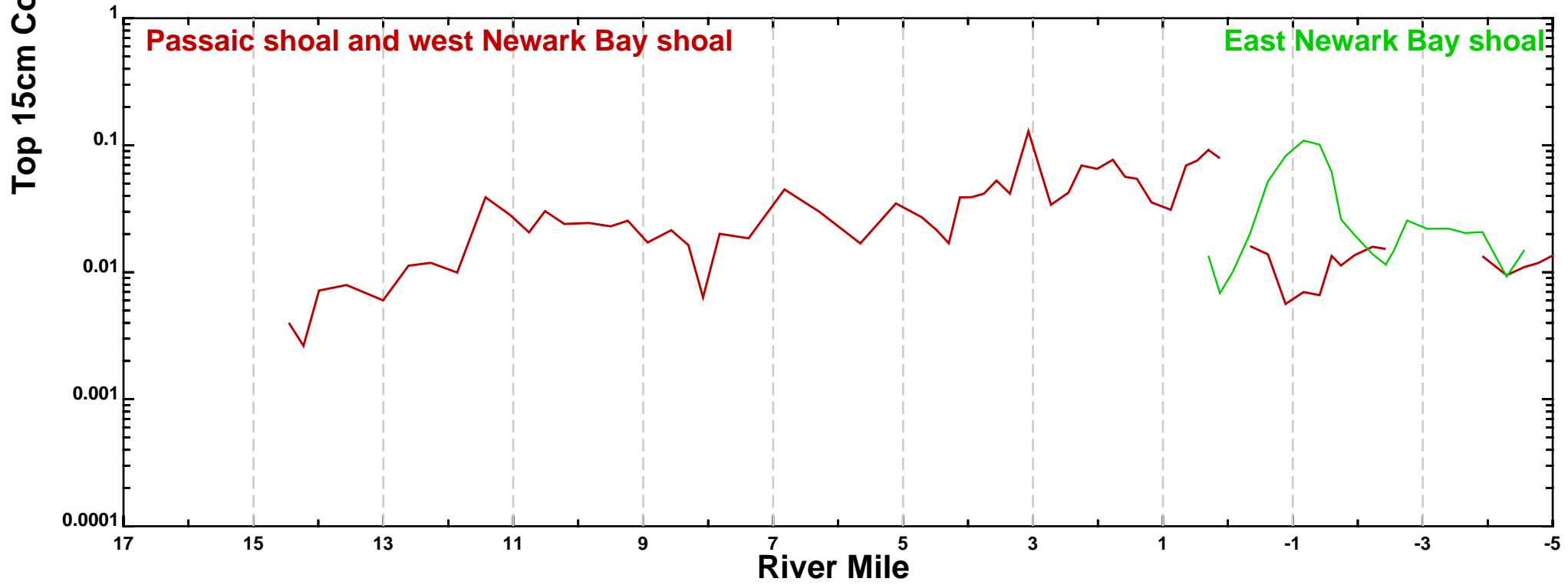
Year =2001.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)



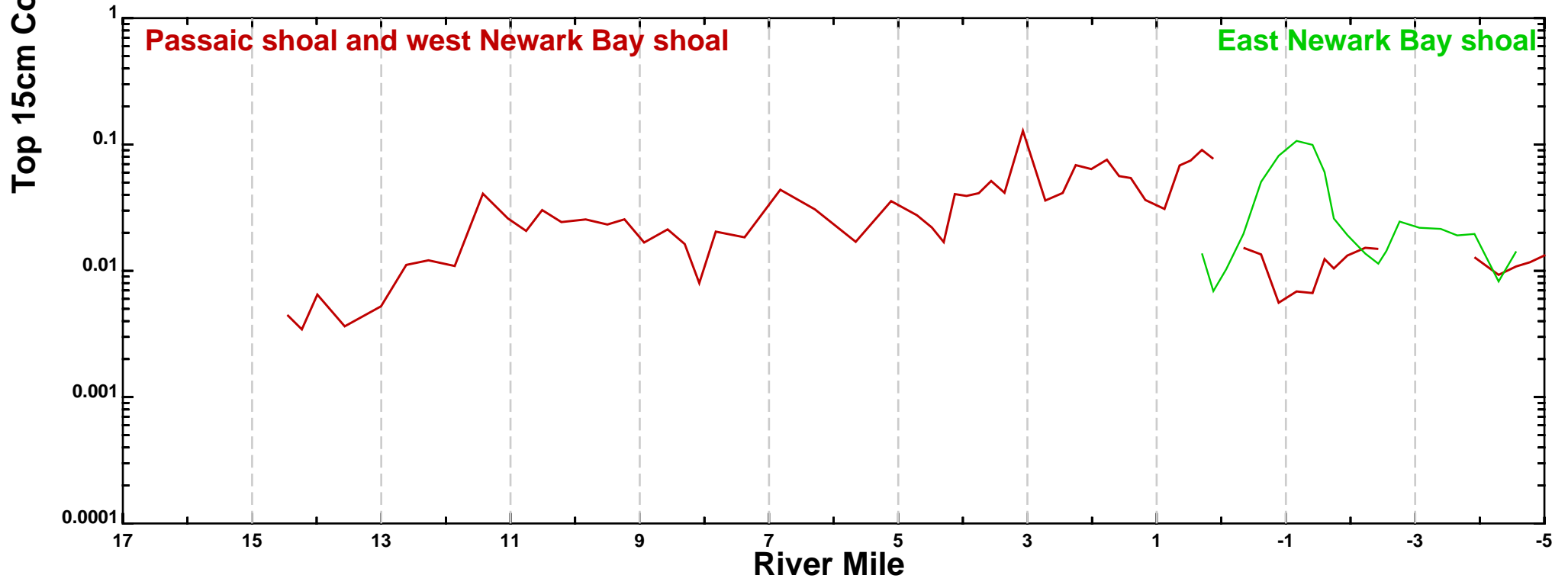
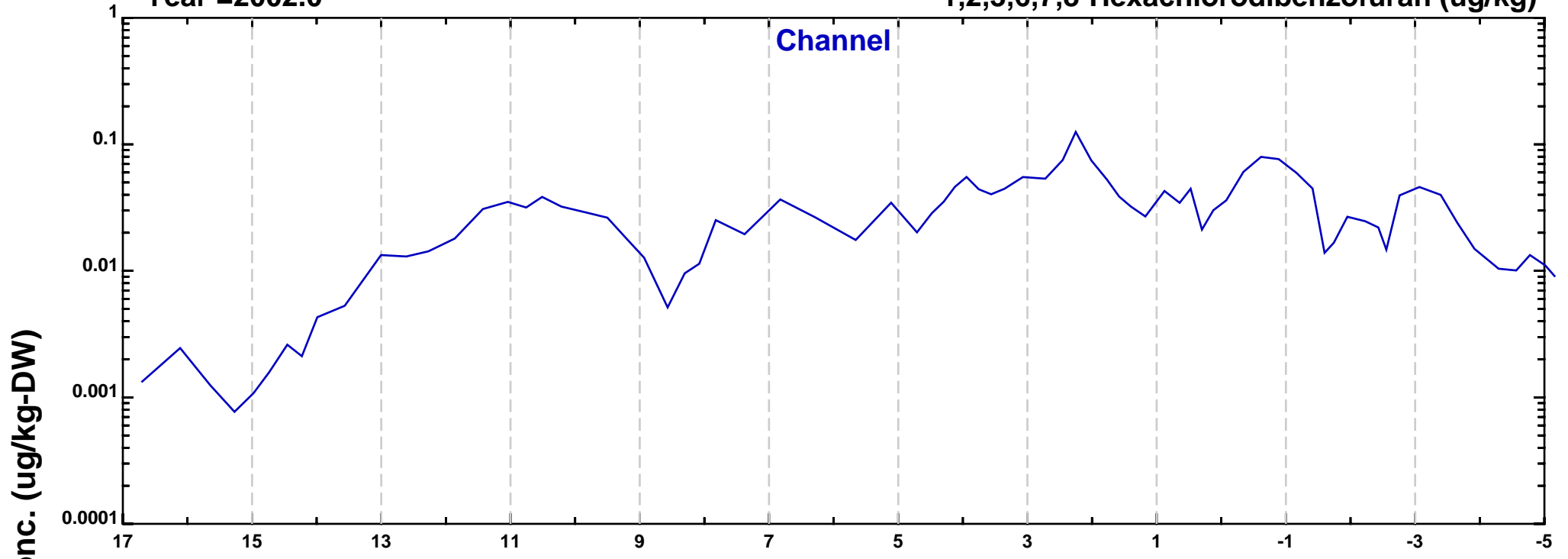
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2002.0

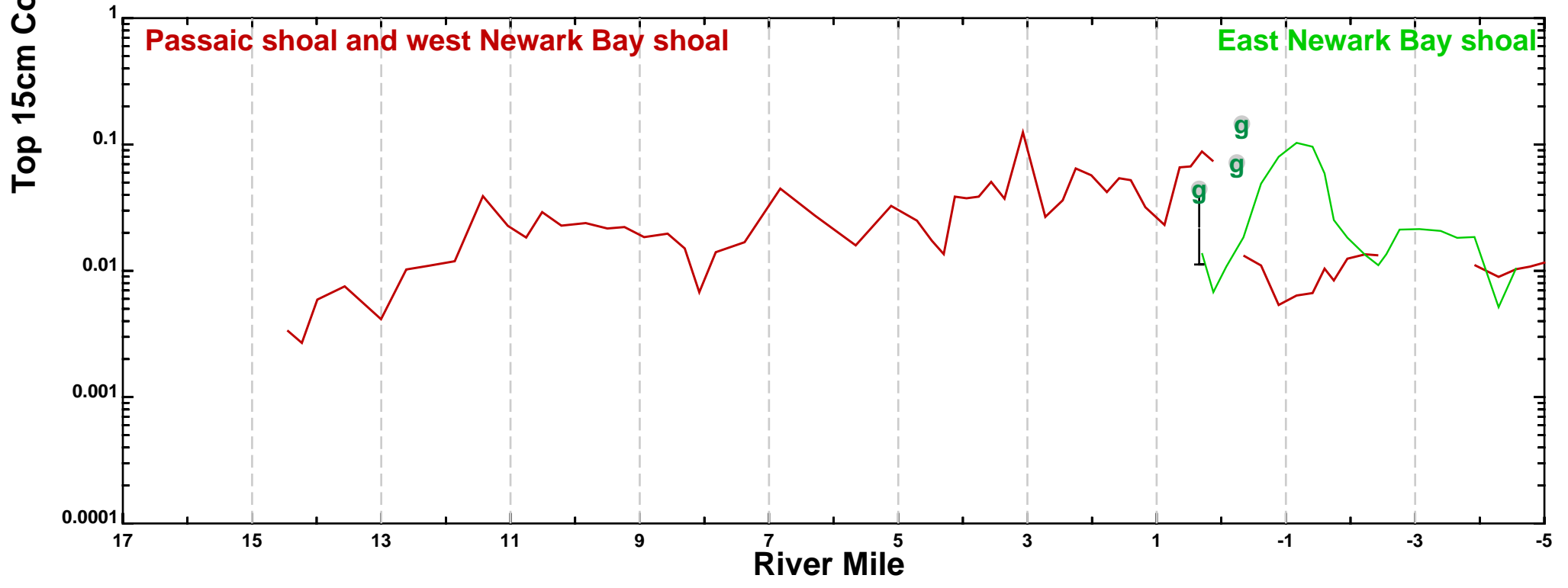
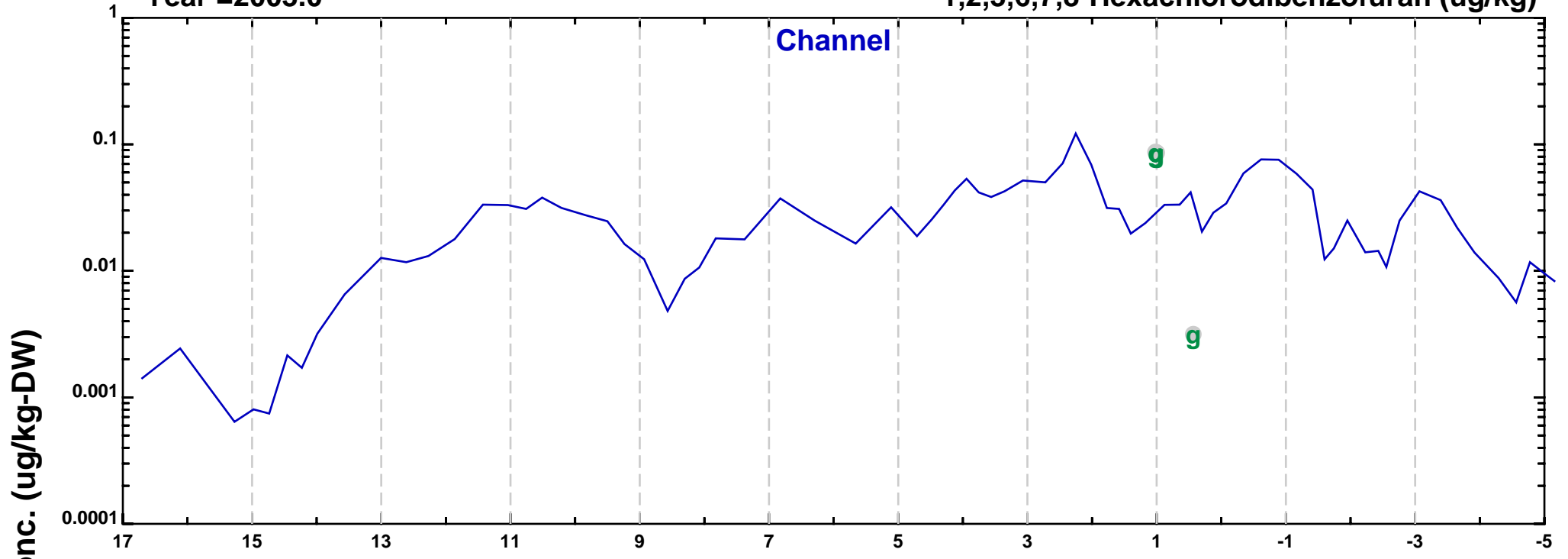
1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)





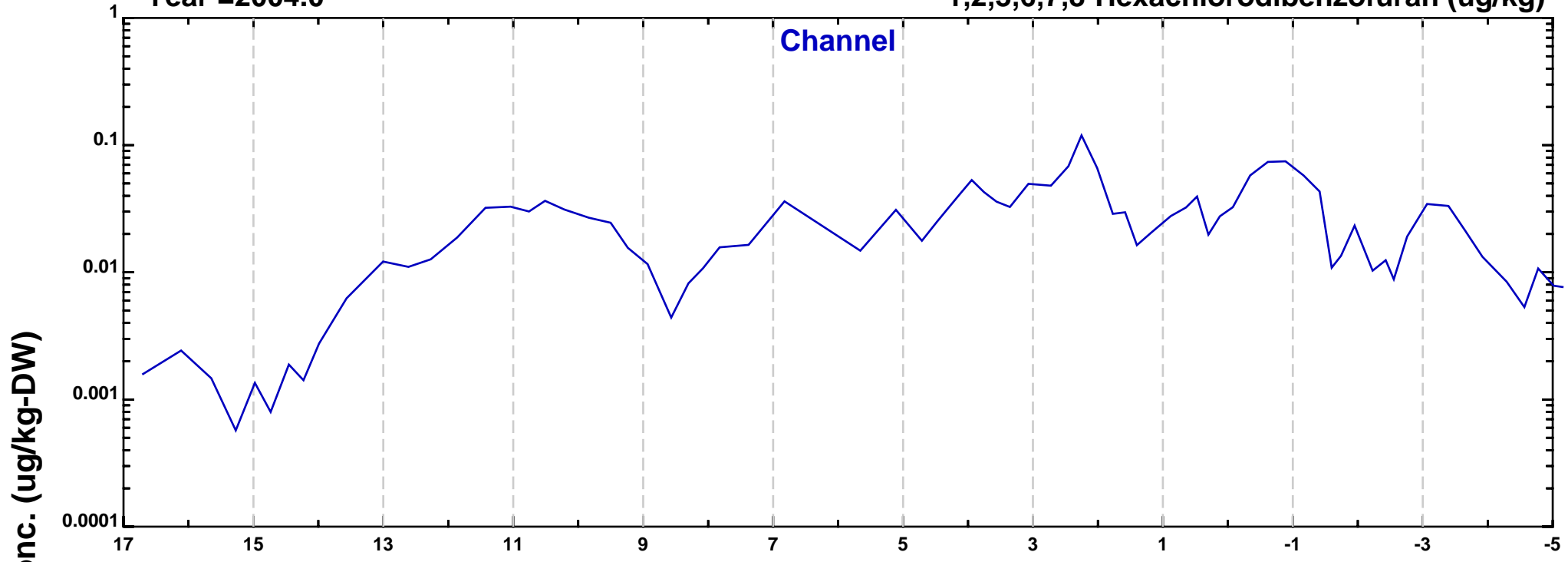
Year =2003.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)



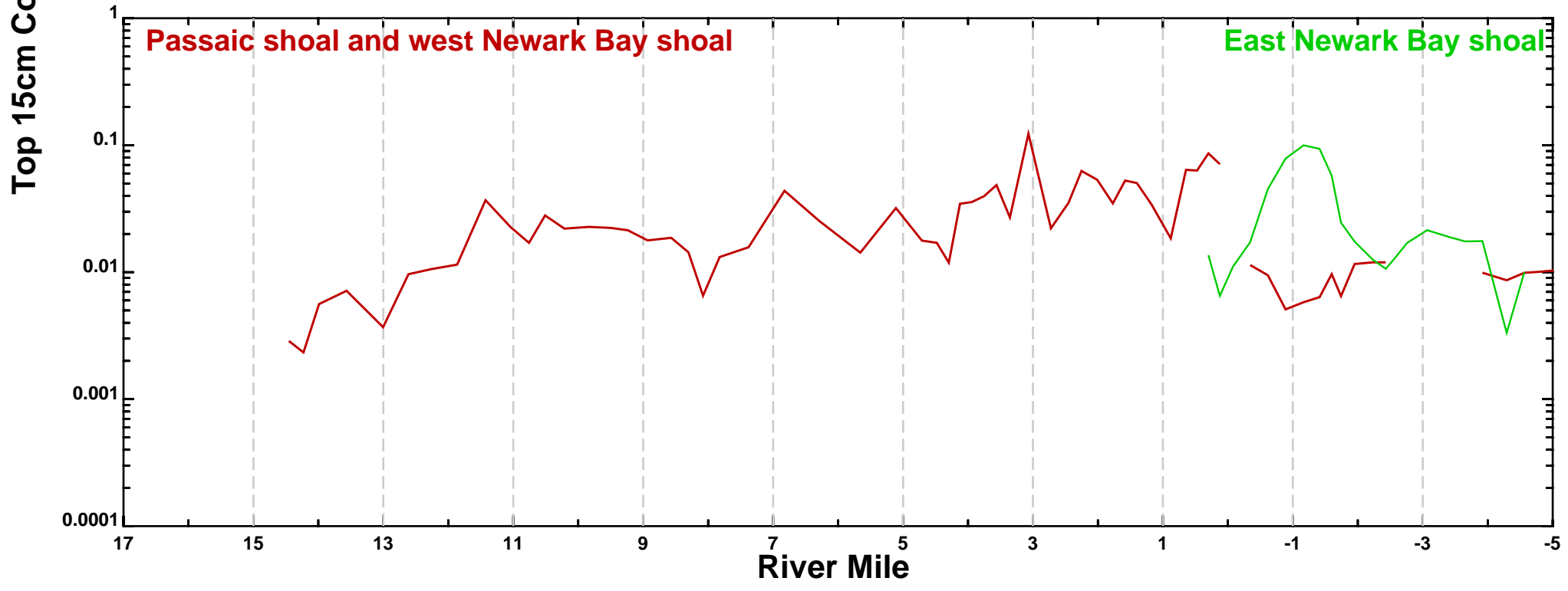
Year =2004.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

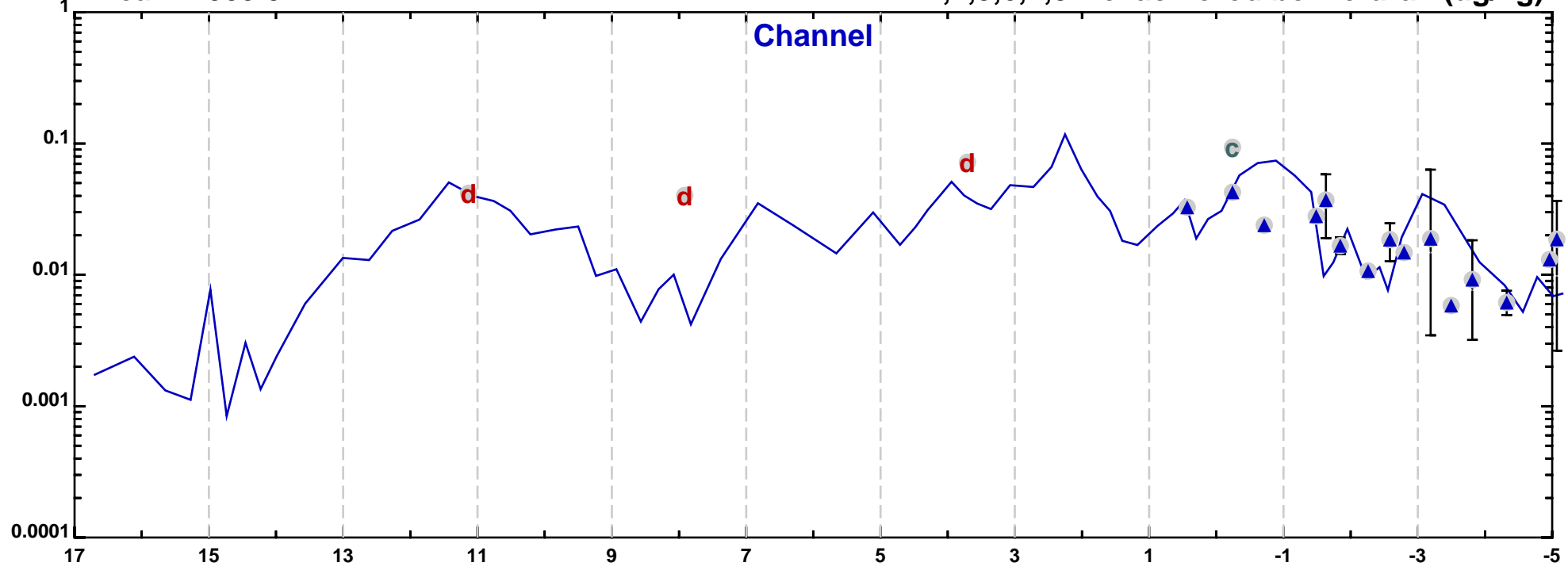
East Newark Bay shoal



Year =2005.0

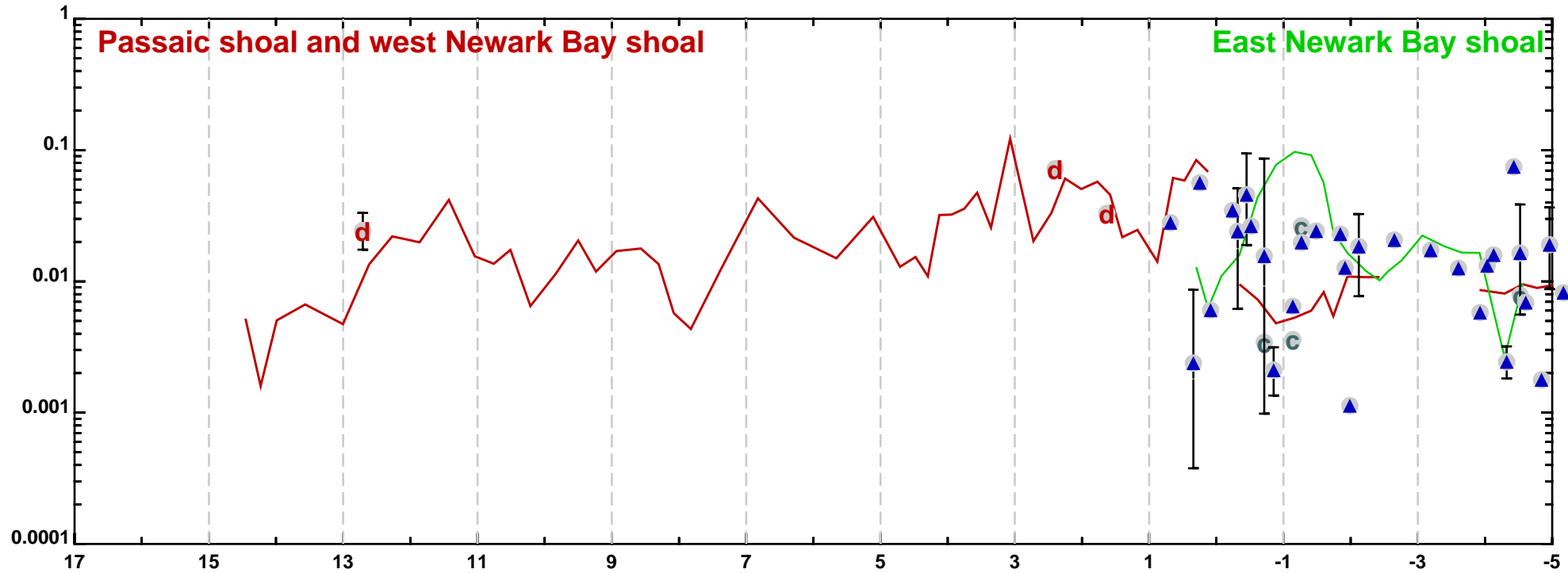
1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



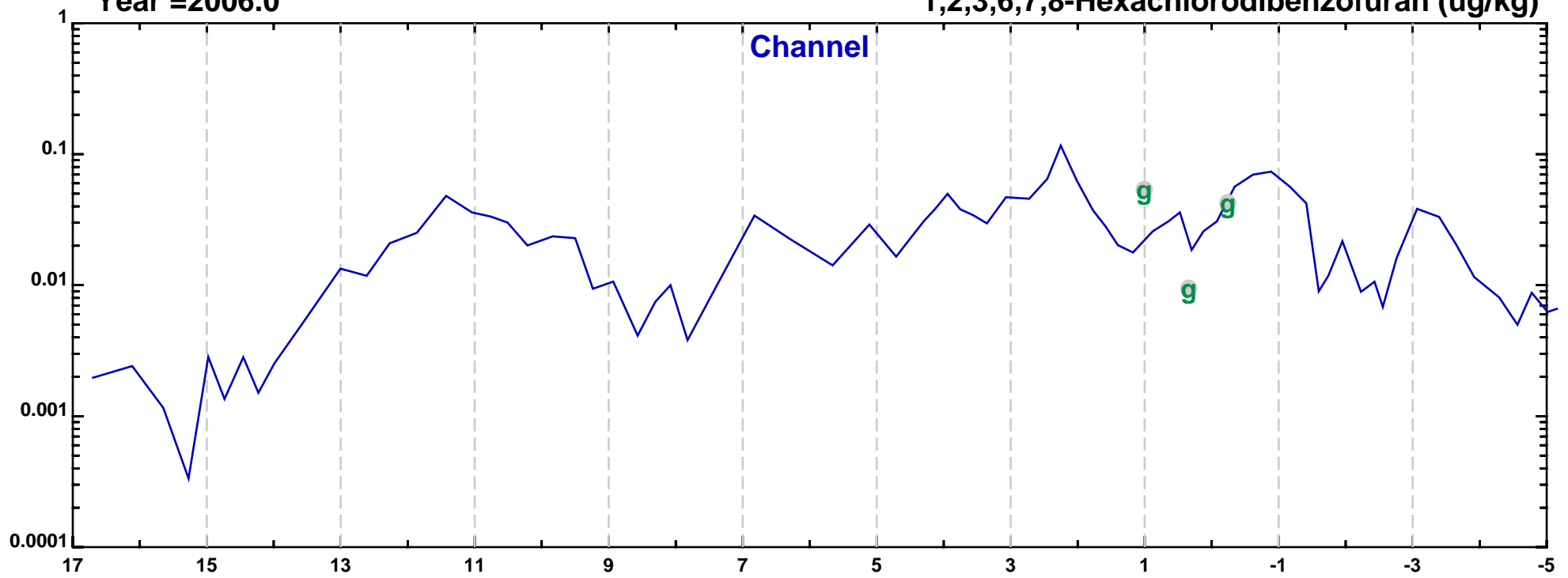
River Mile

Year =2006.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

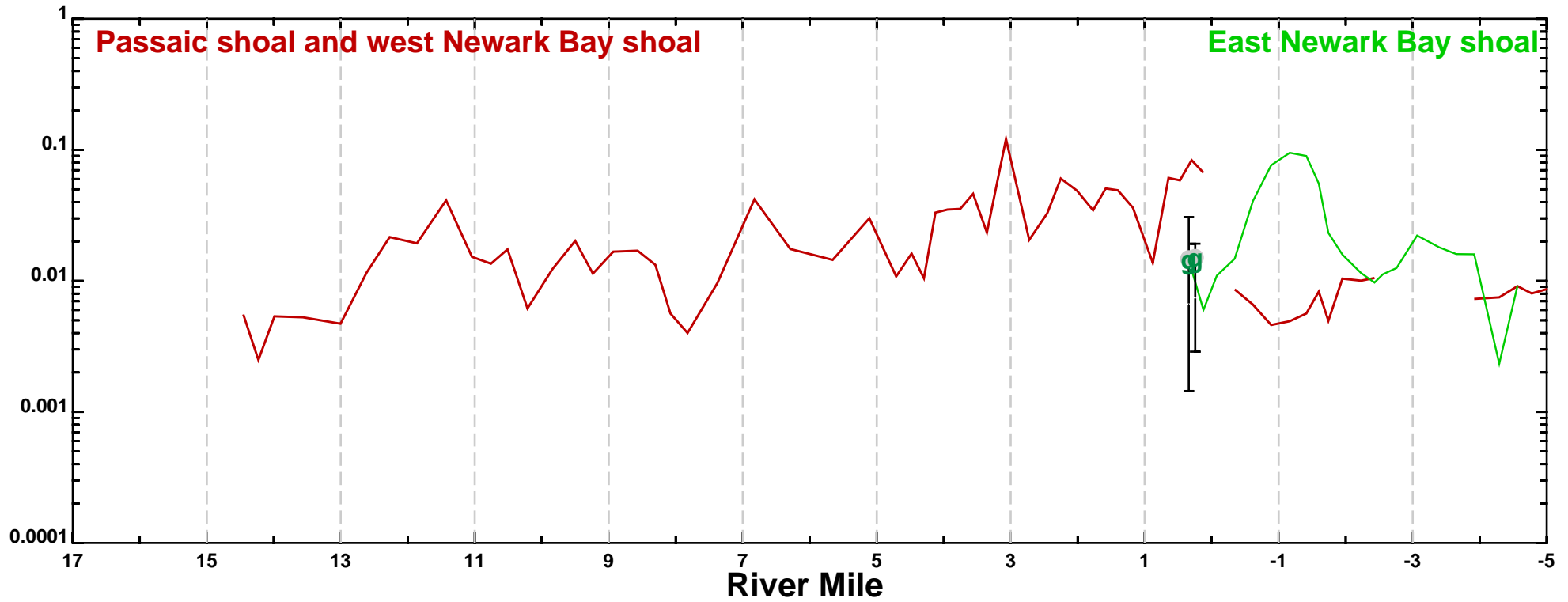
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

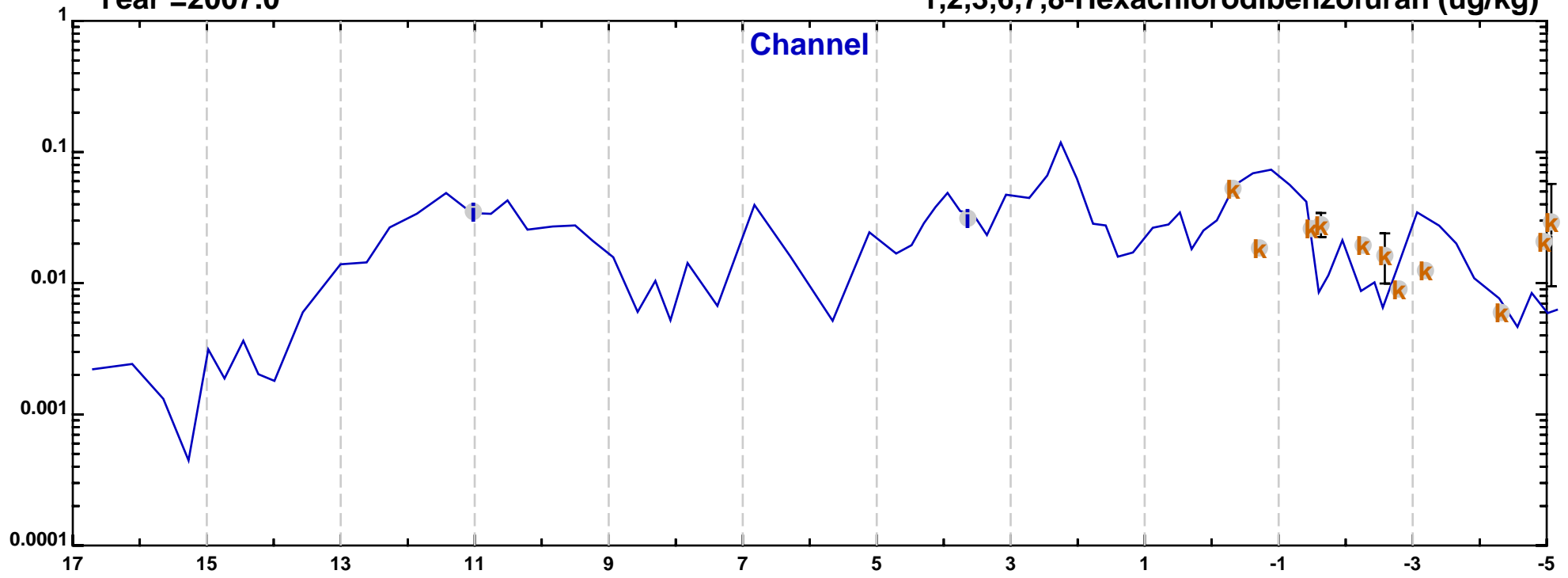


Year =2007.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

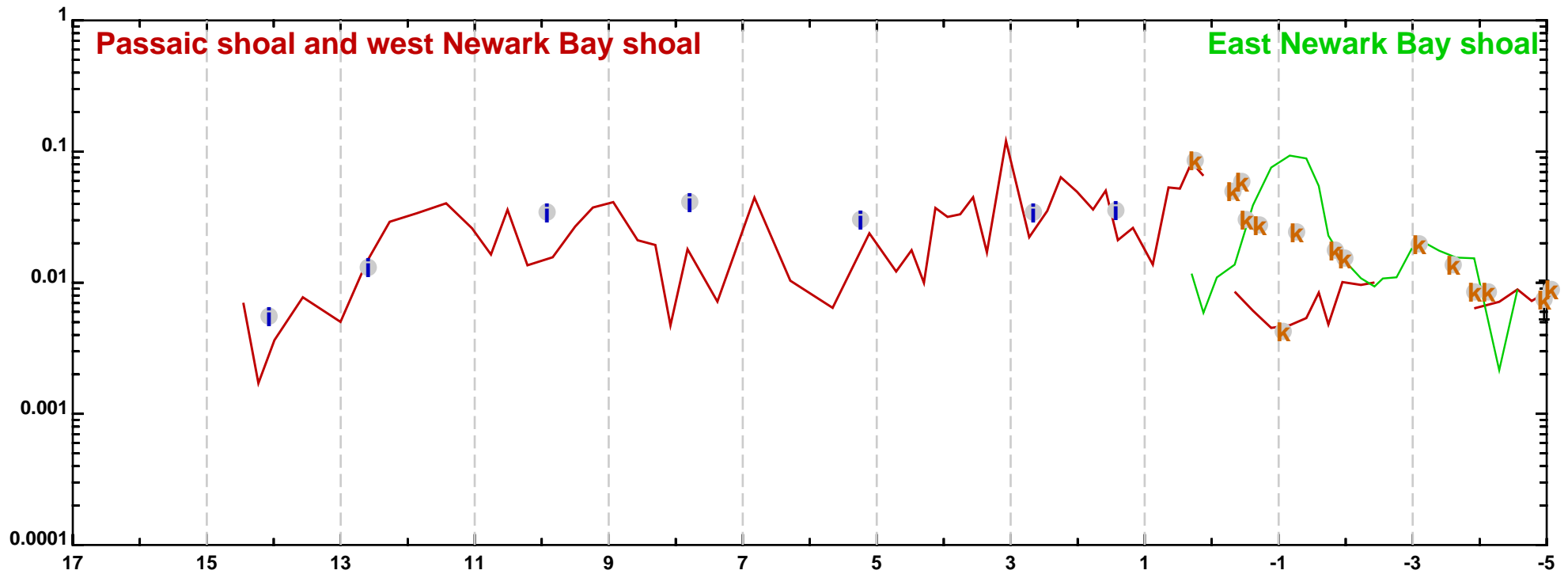
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

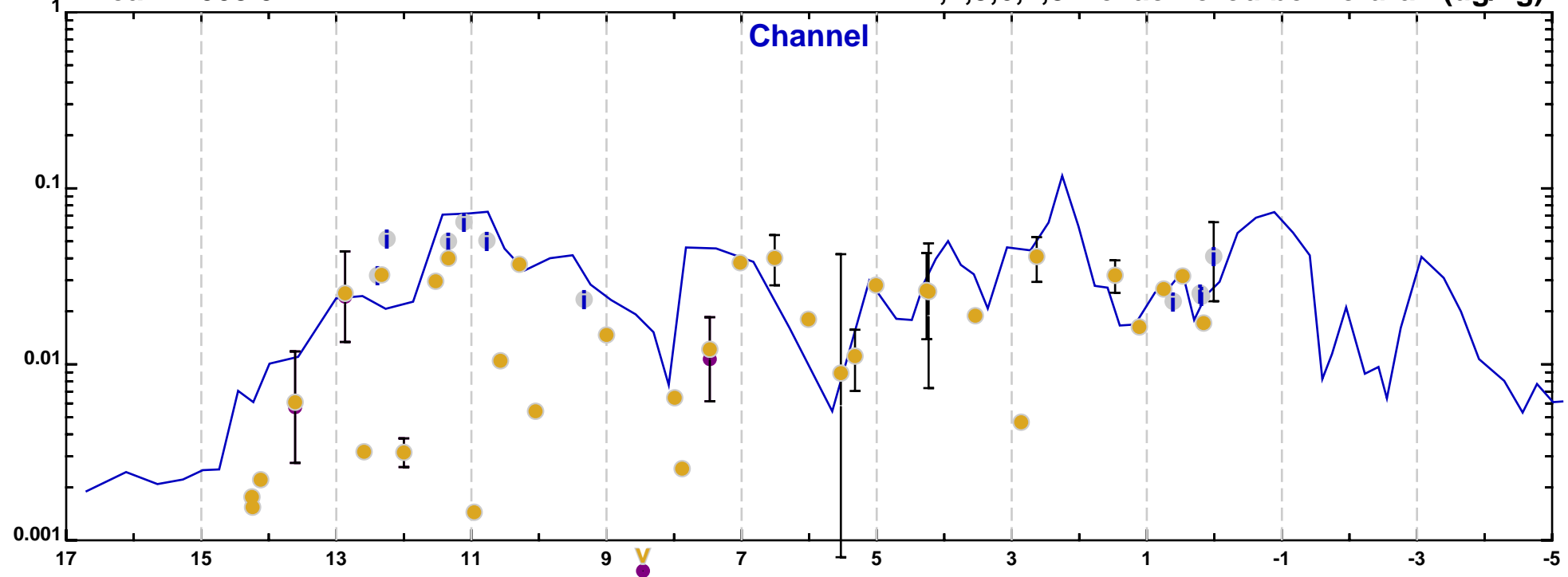


River Mile

Year =2008.0

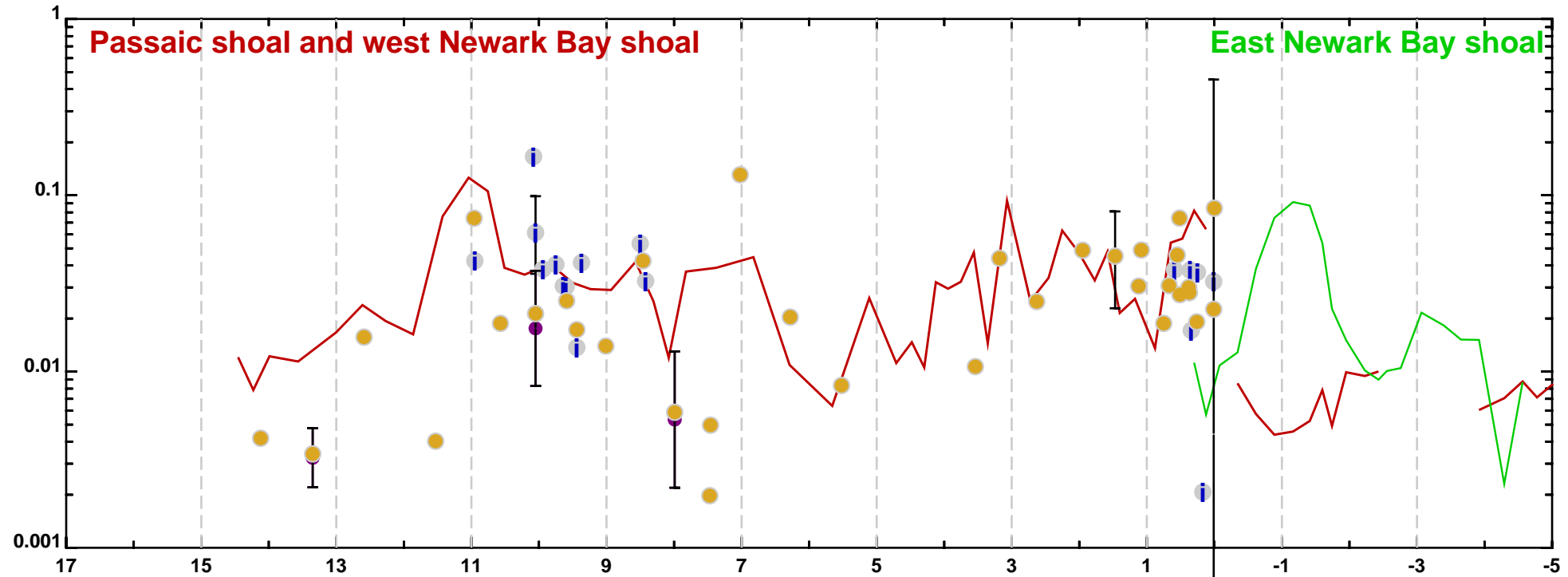
1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



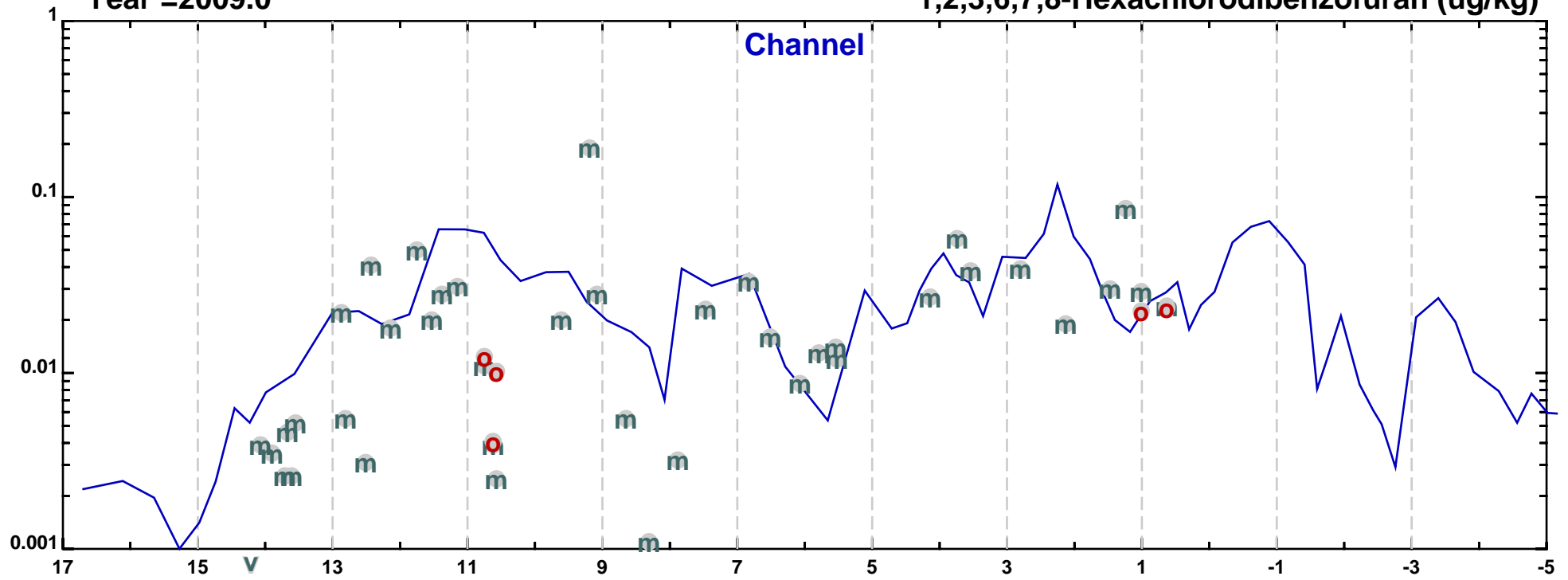
River Mile

Year =2009.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

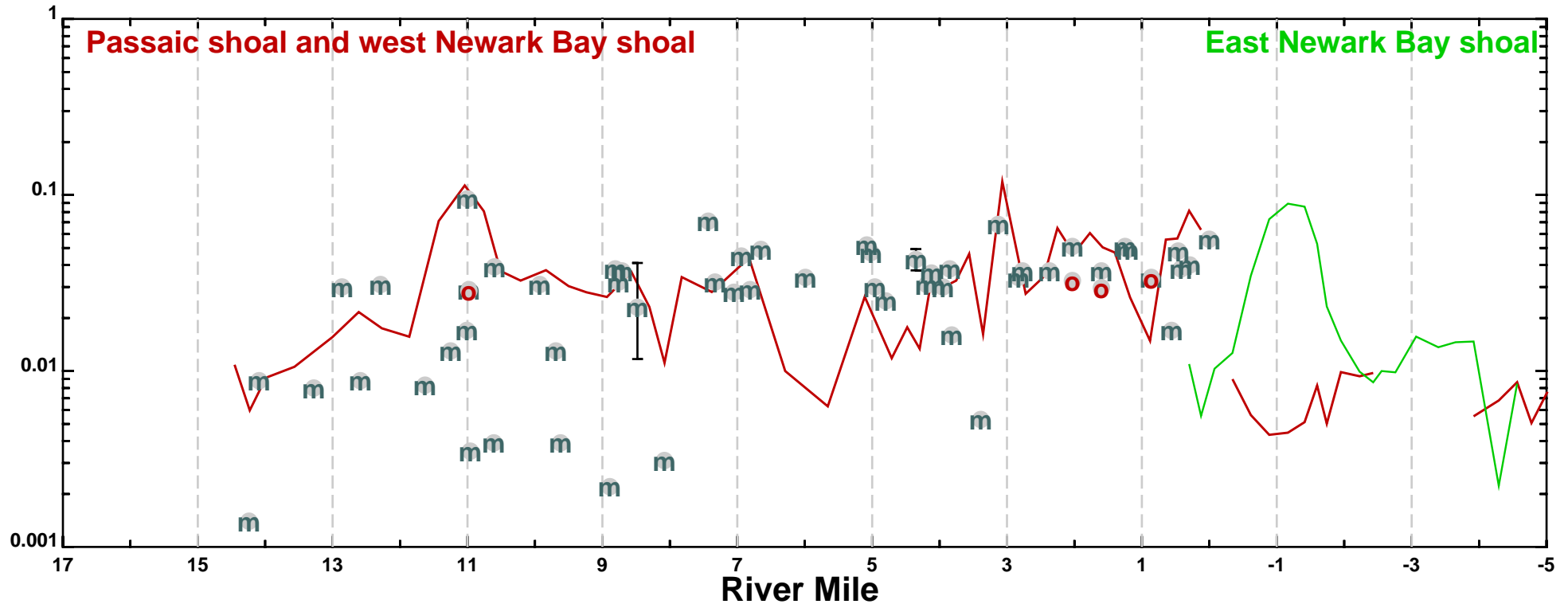
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

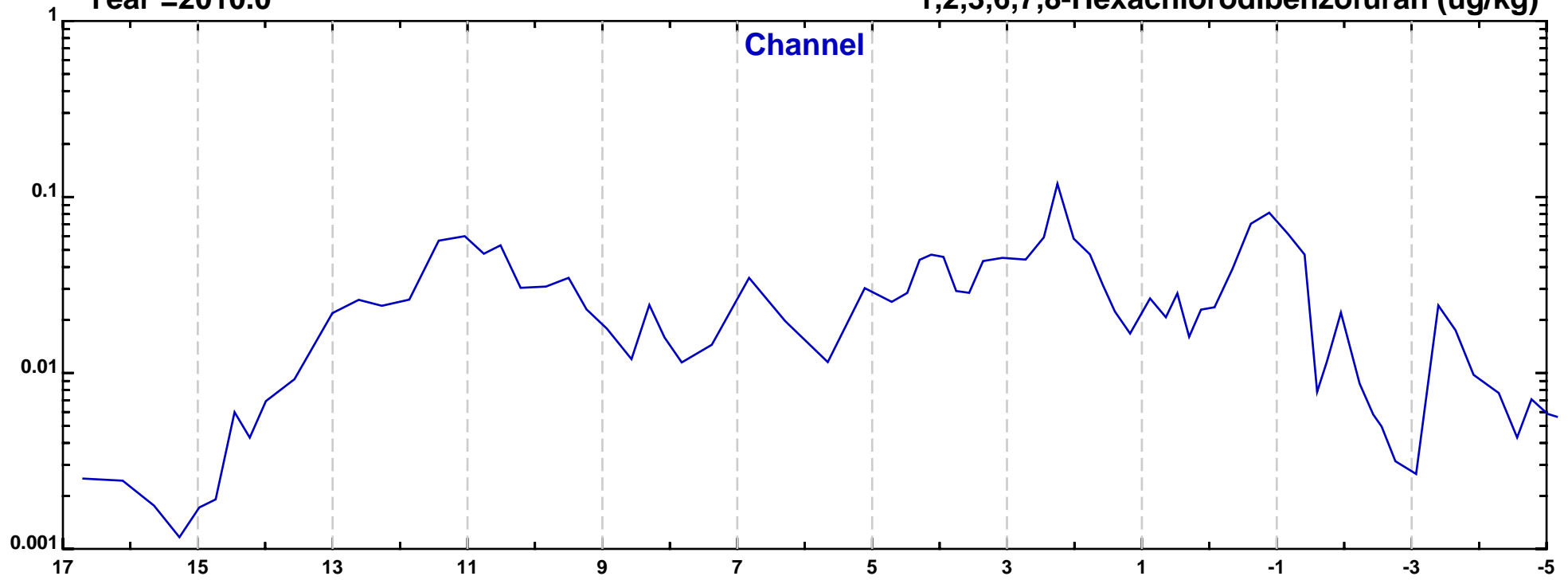


Year =2010.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

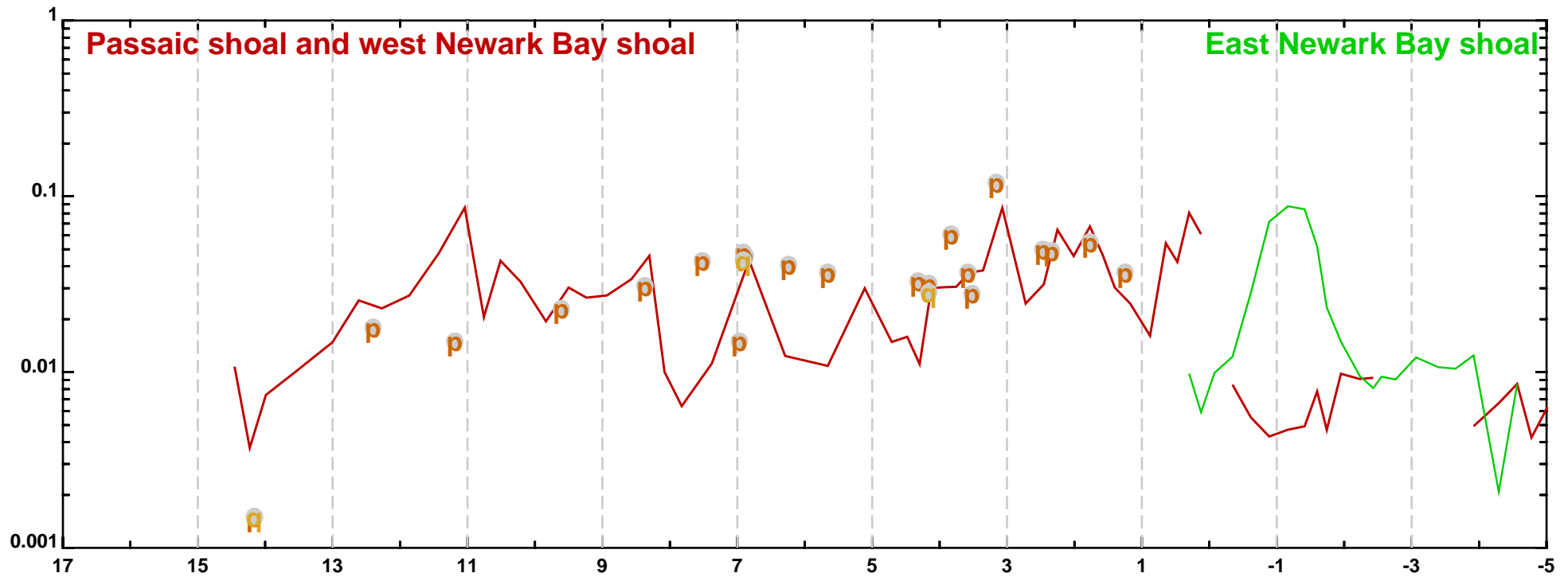
Top 15cm Conc. (ug/kg-DW)

Channel



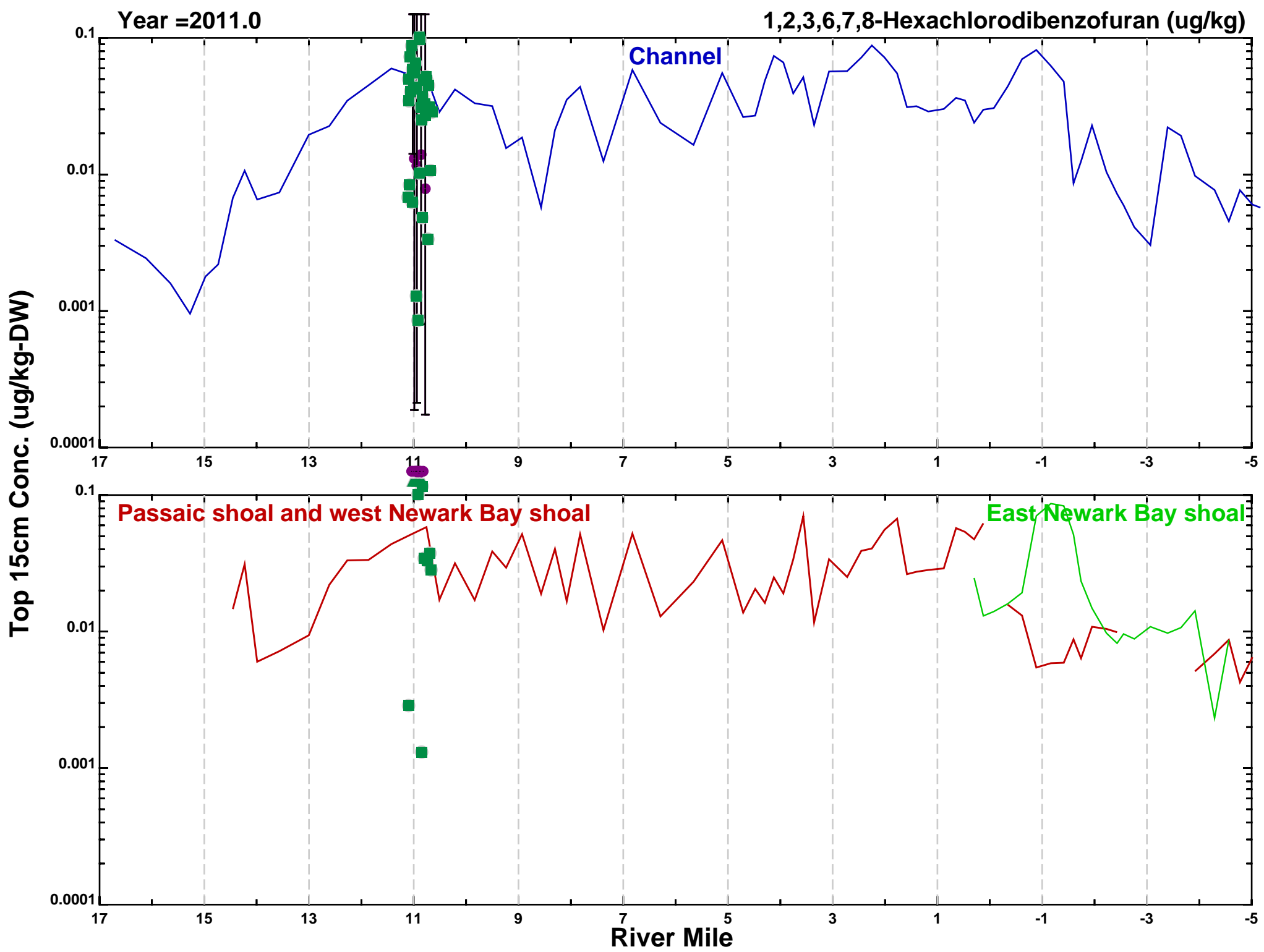
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

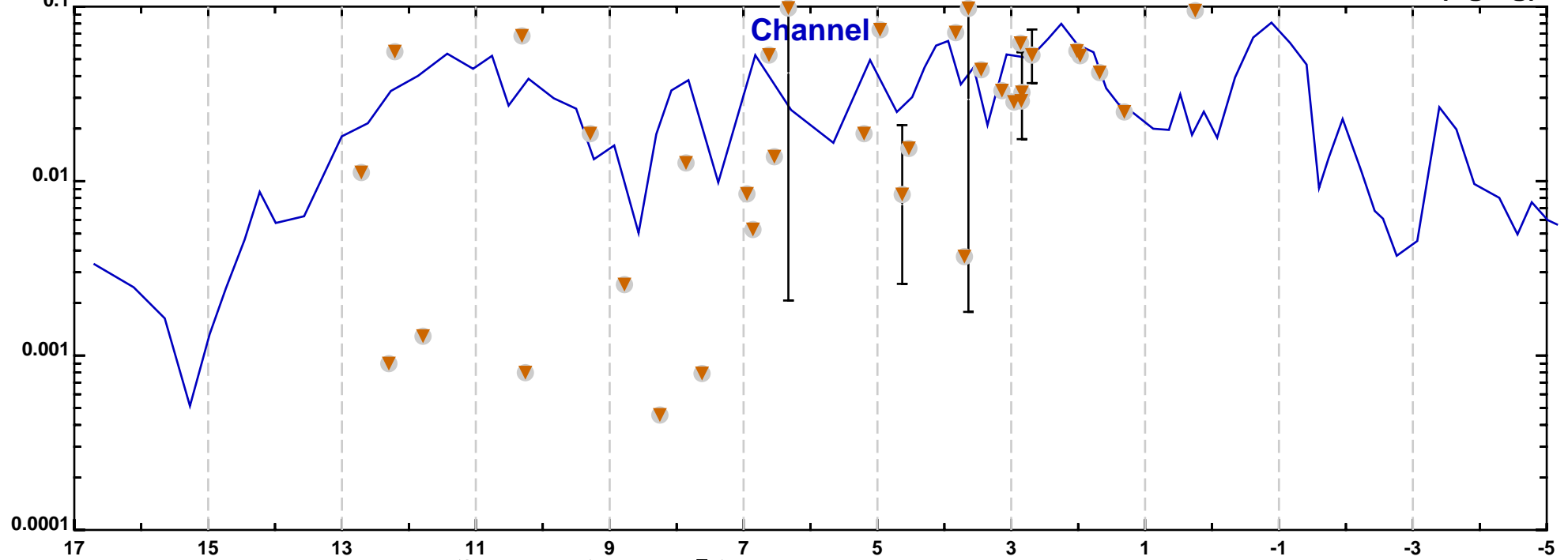




Year =2012.0

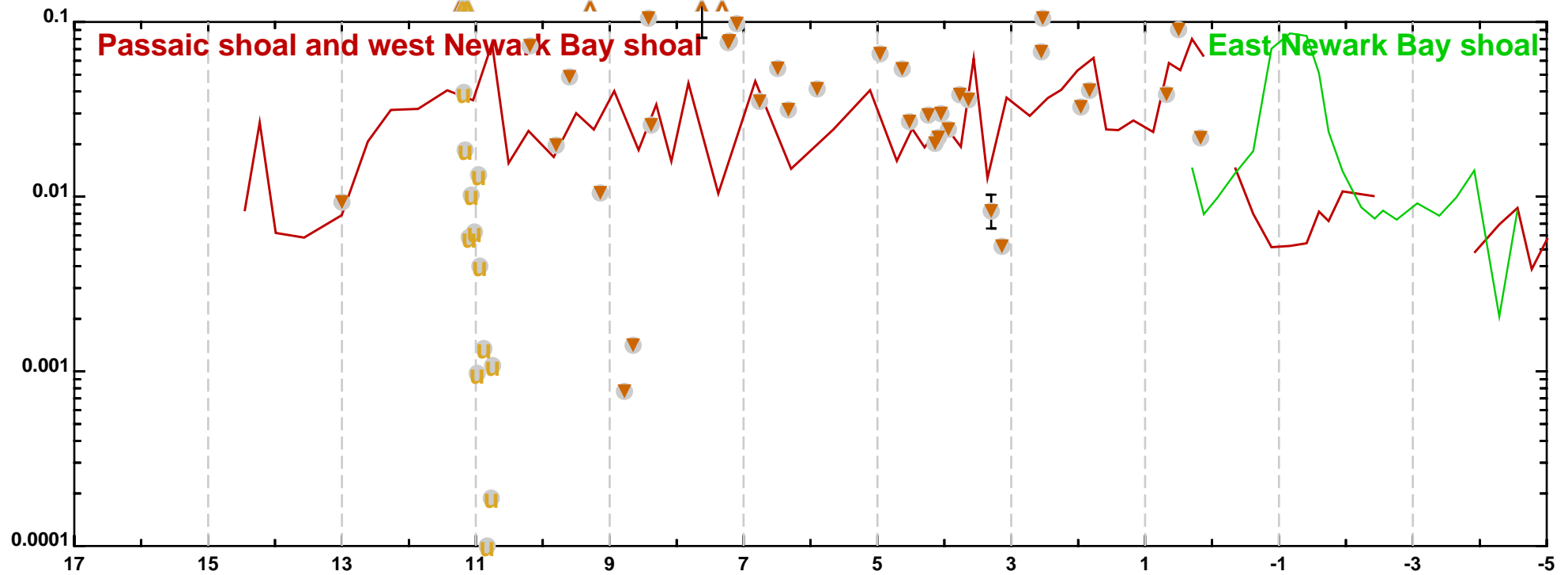
▲ 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

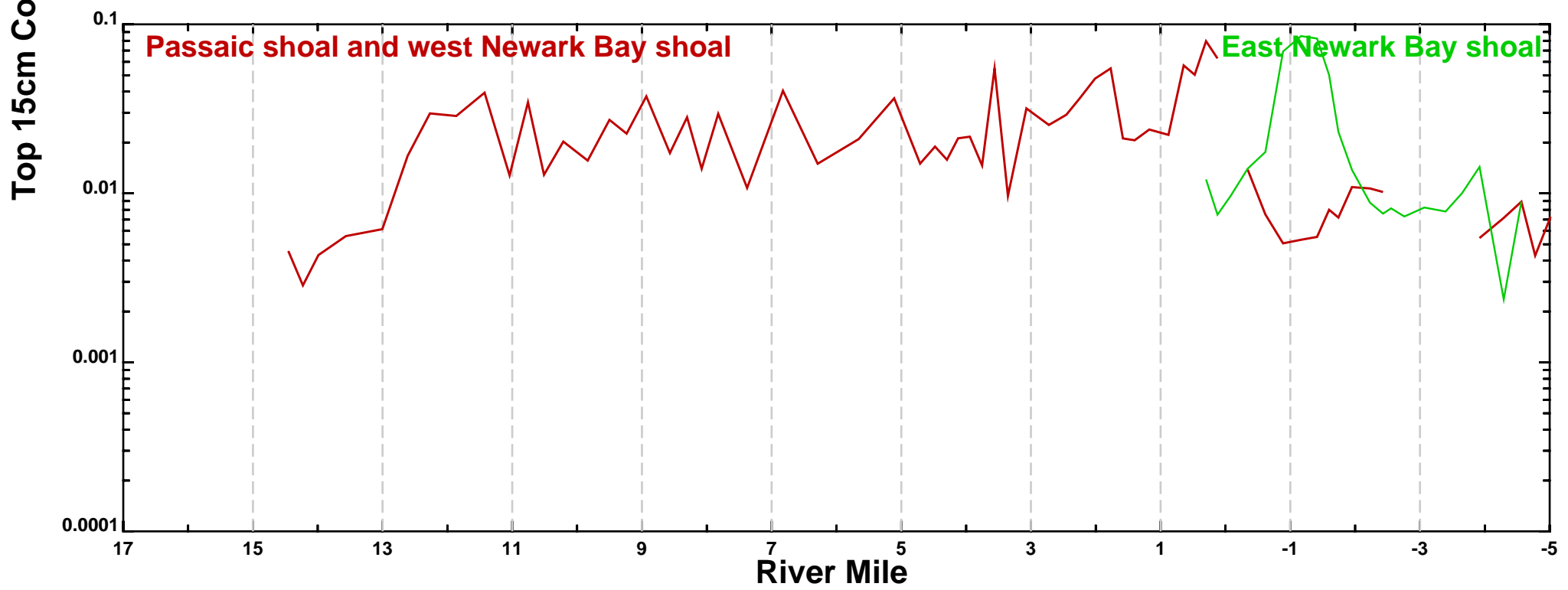
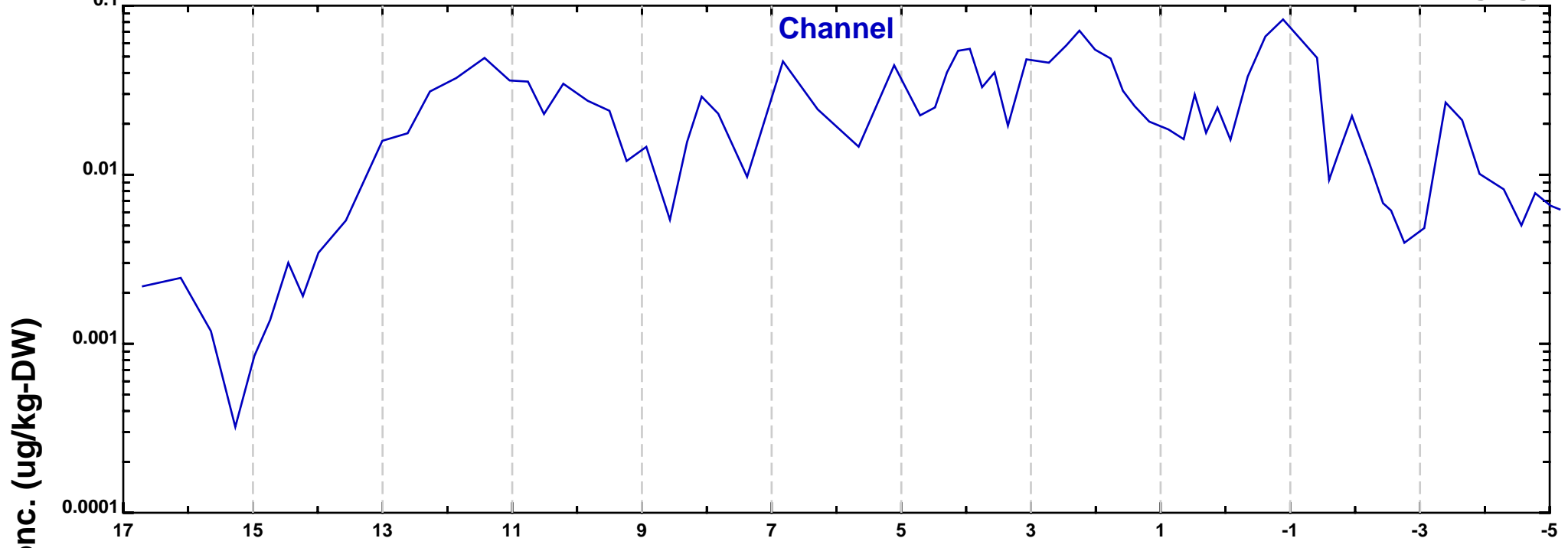
East Newark Bay shoal



River Mile

Year =2013.0

1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg)

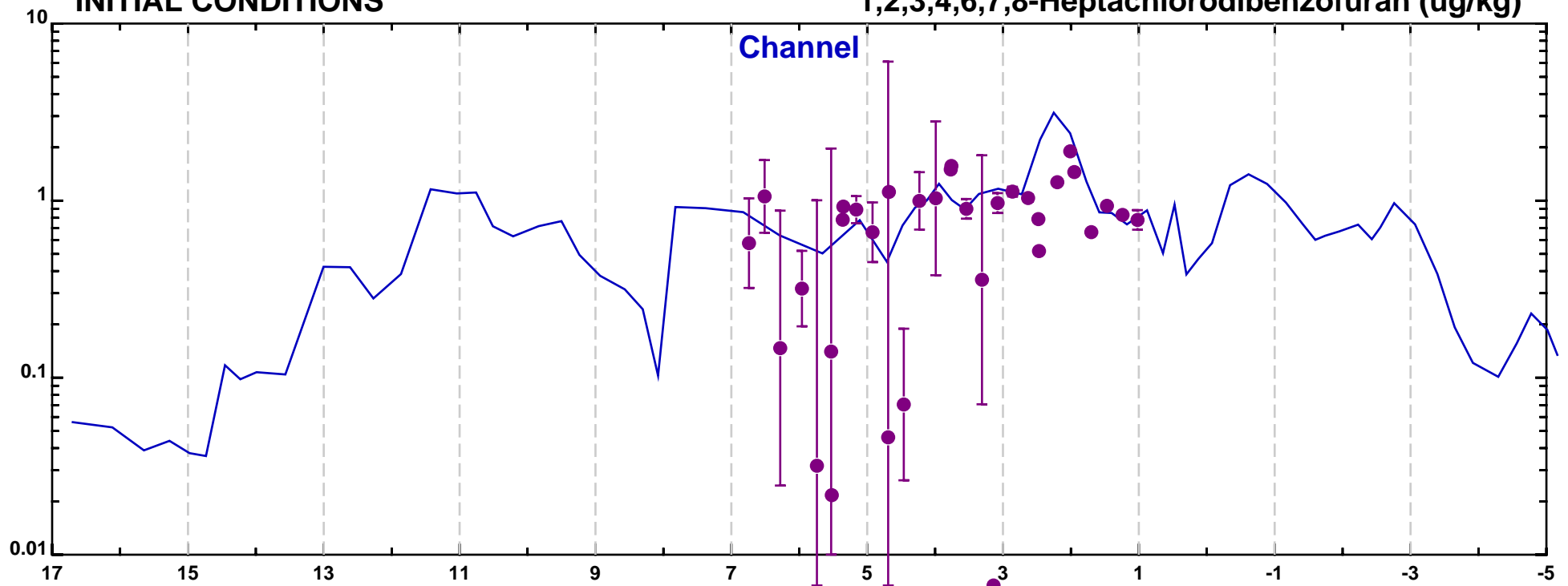


**INITIAL CONDITIONS**

**1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)**

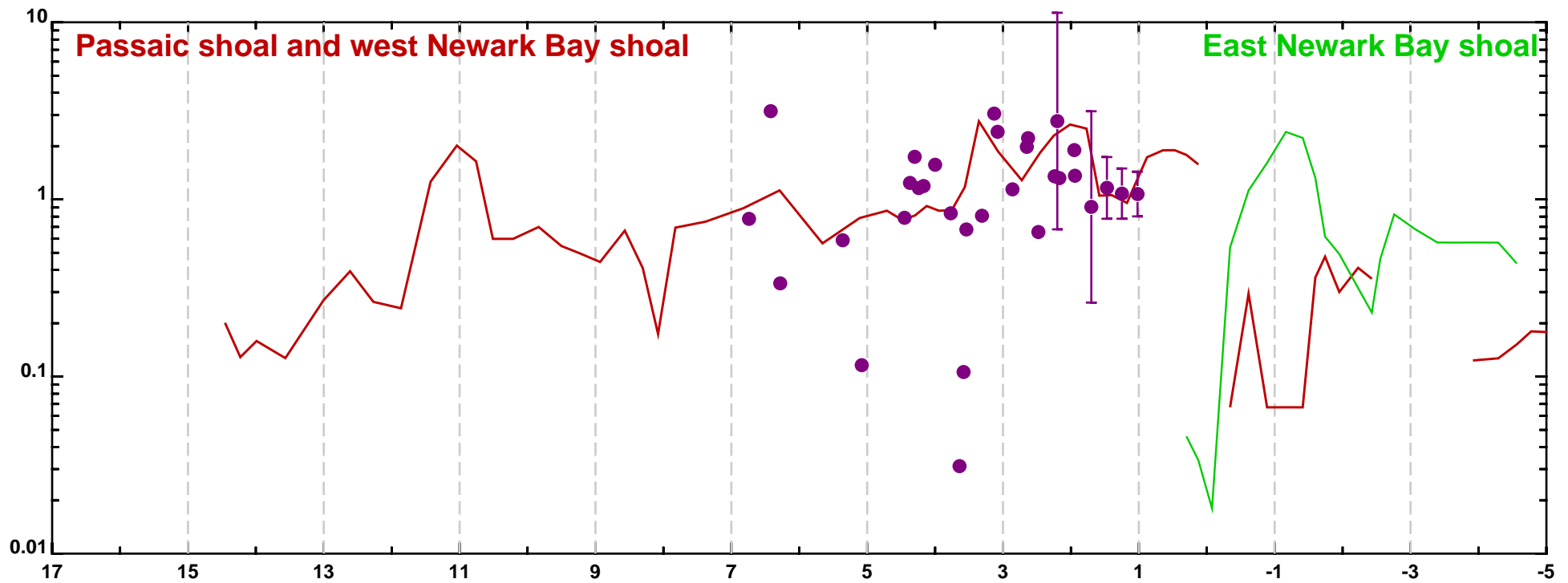
**Top 15cm Conc. (ug/kg-DW)**

**Channel**



**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



**River Mile**

Year =1996.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)

Channel

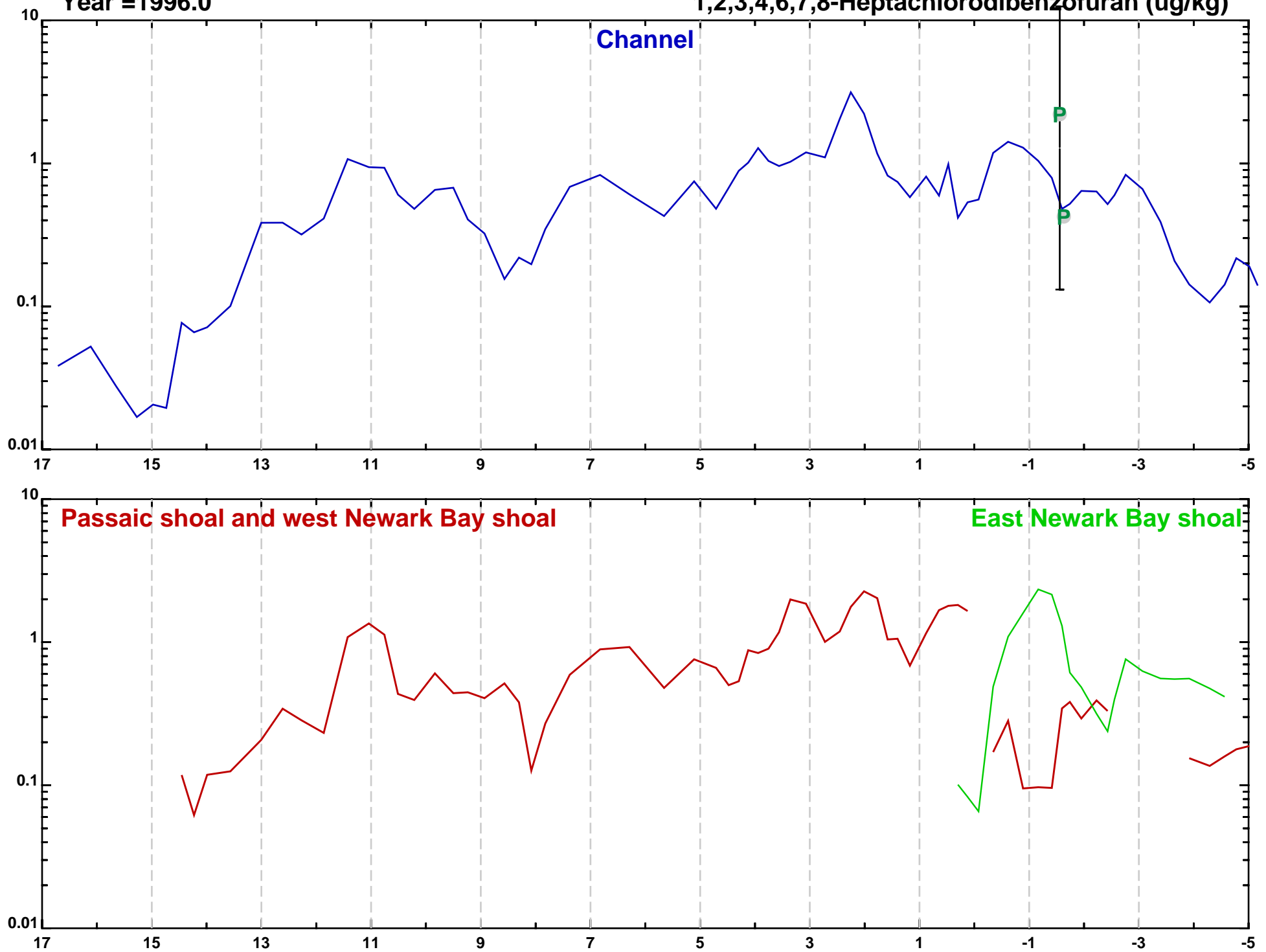
P

P

Passaic shoal and west Newark Bay shoal

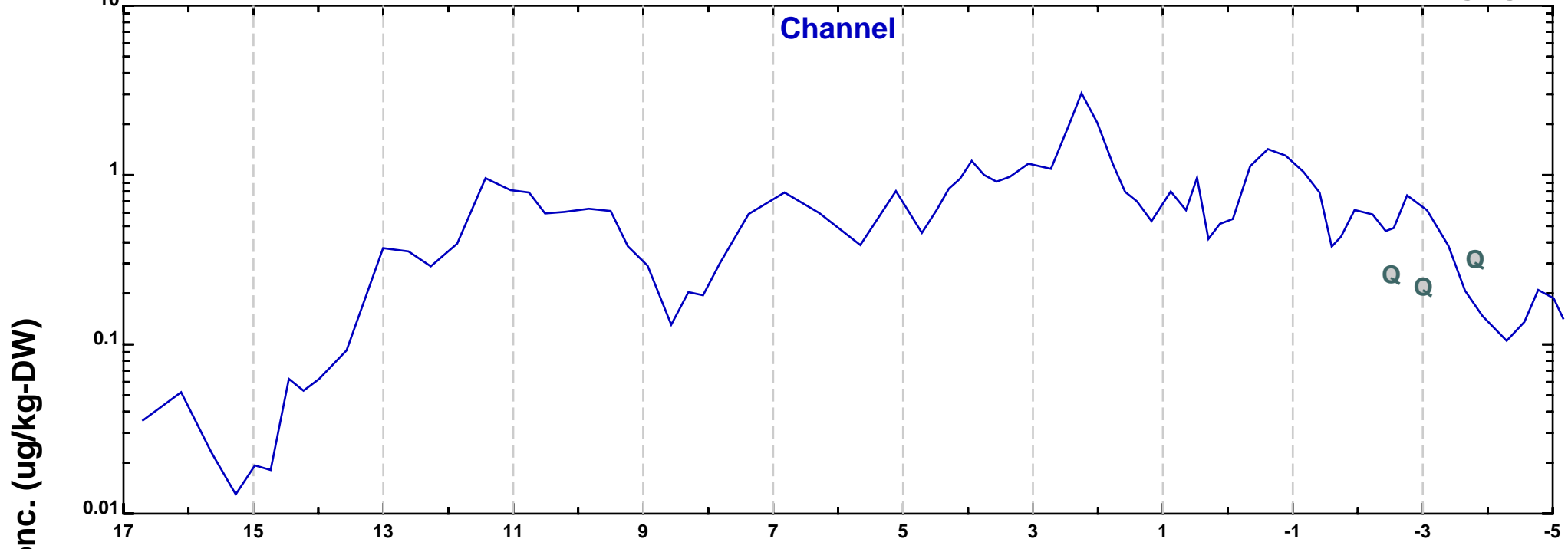
East Newark Bay shoal

River Mile



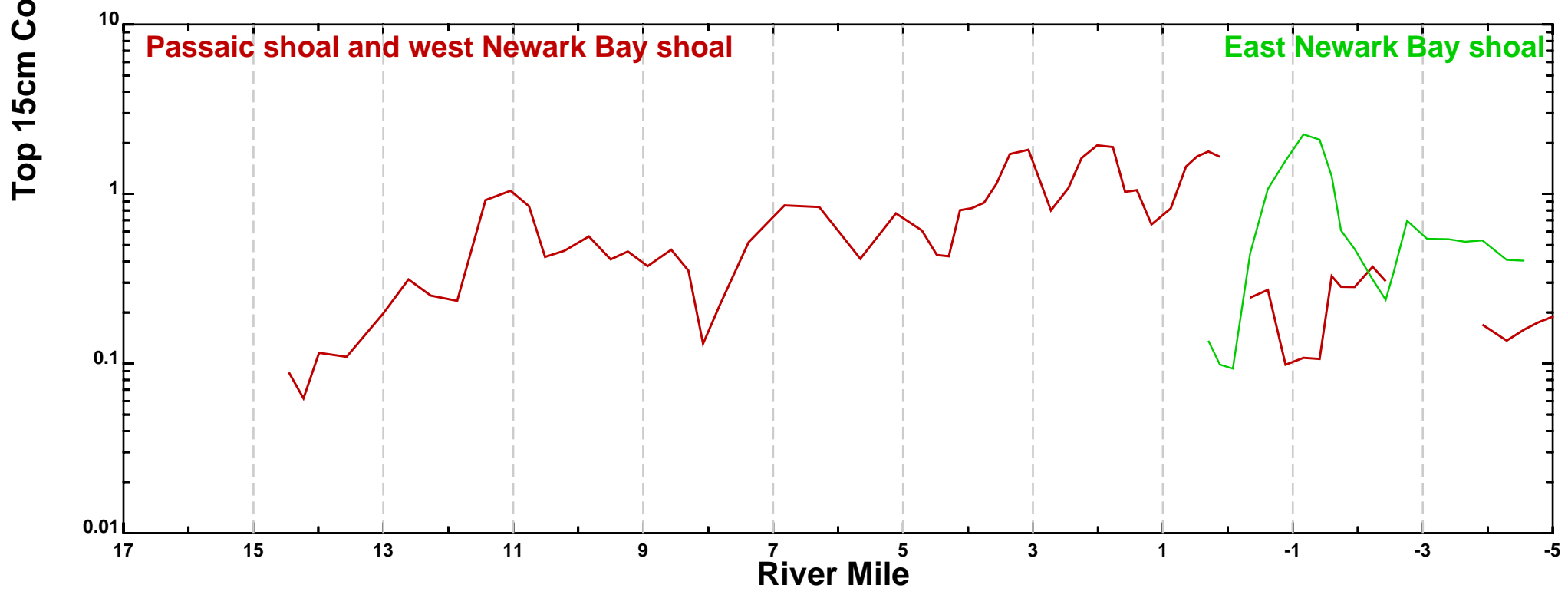
Year =1997.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

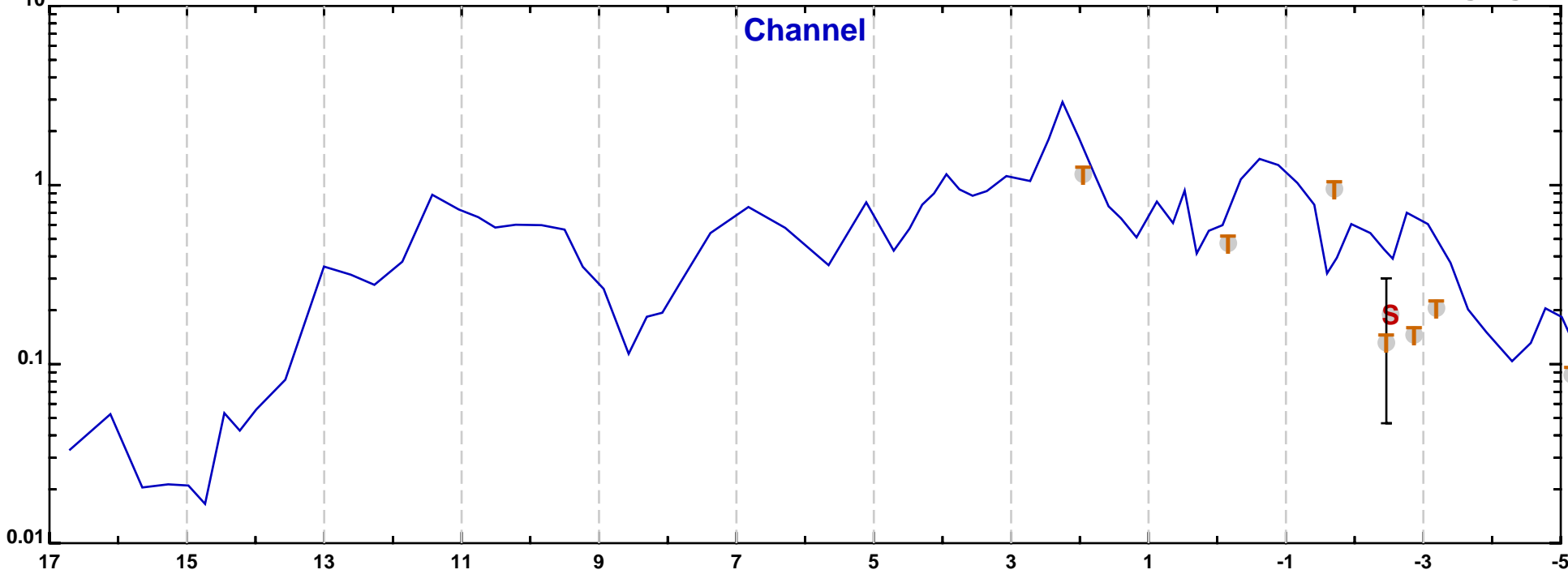


Year = 1998.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

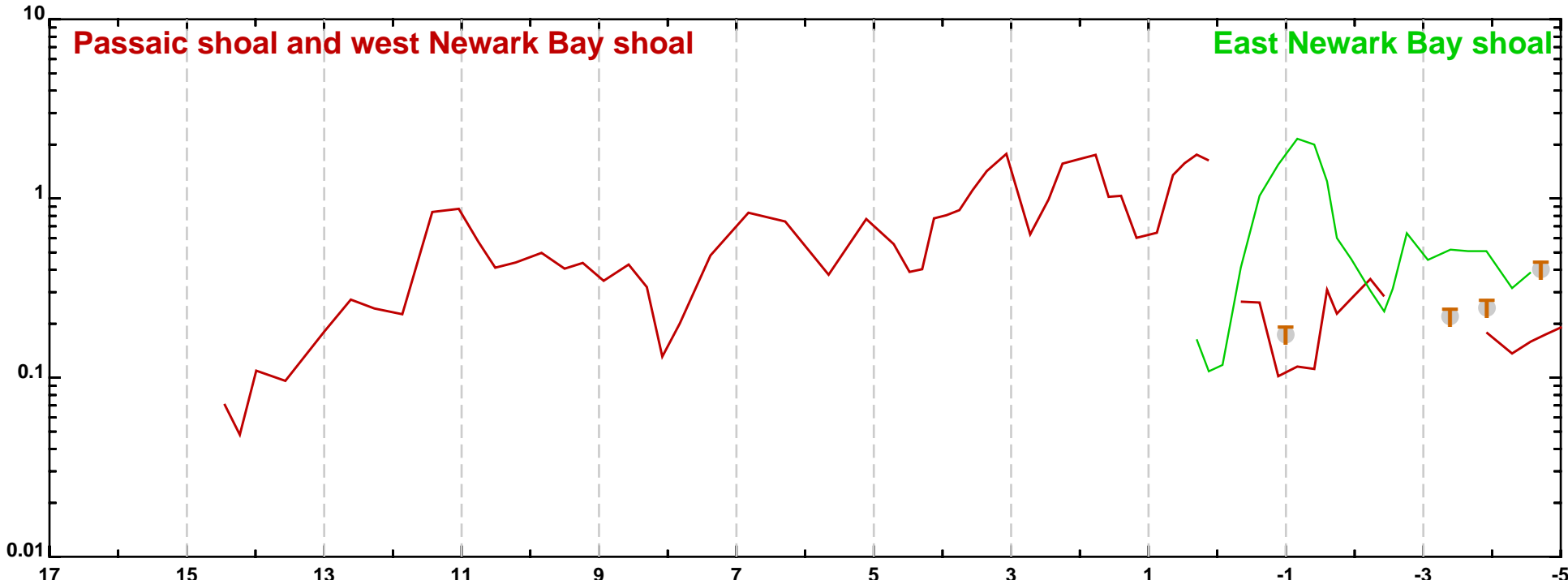
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

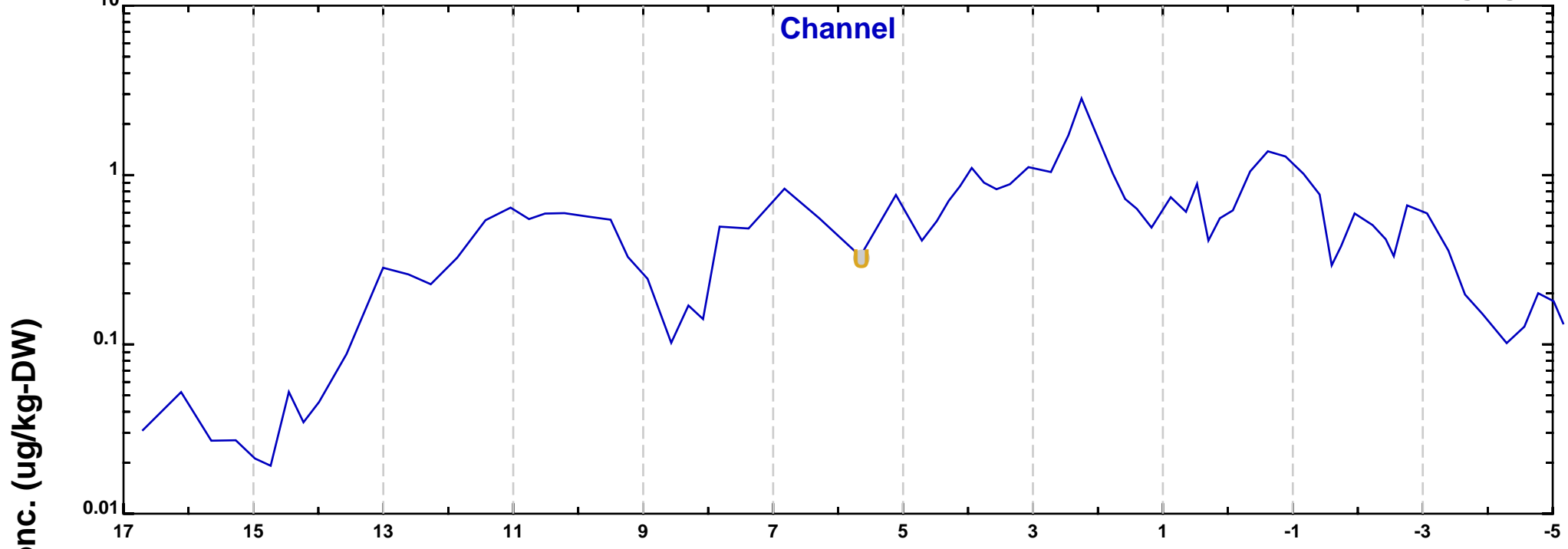
East Newark Bay shoal



River Mile

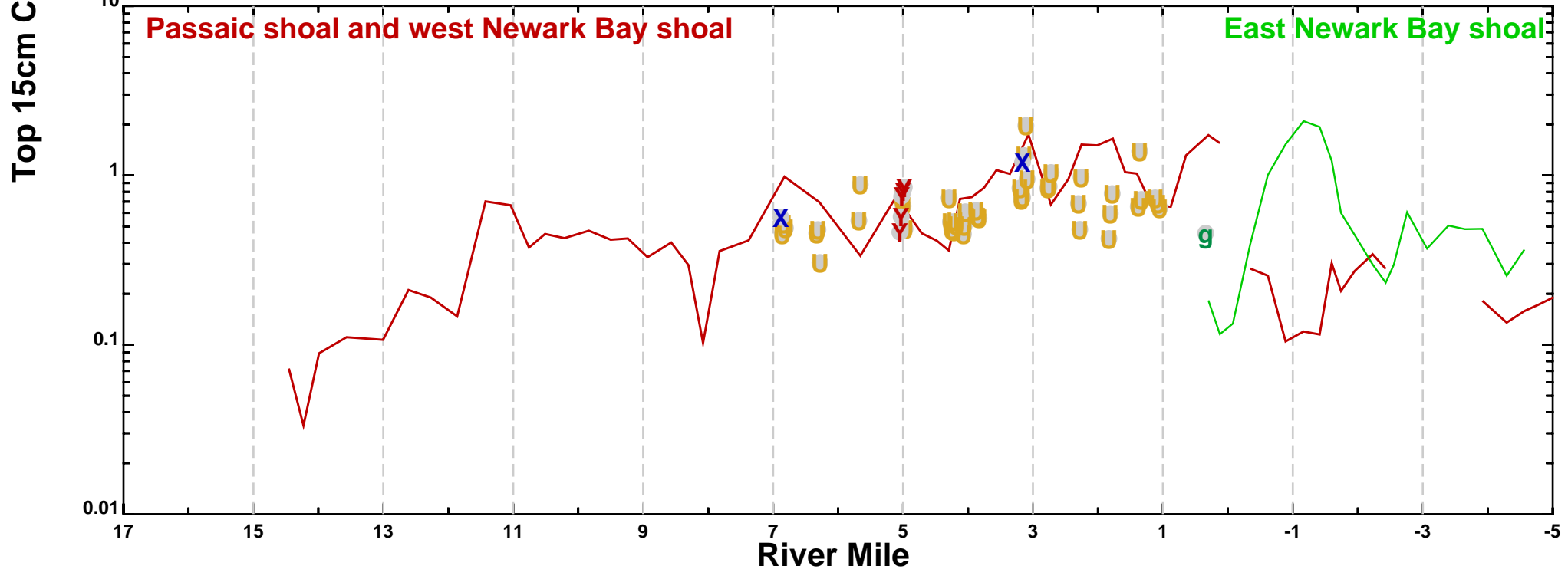
Year = 1999.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

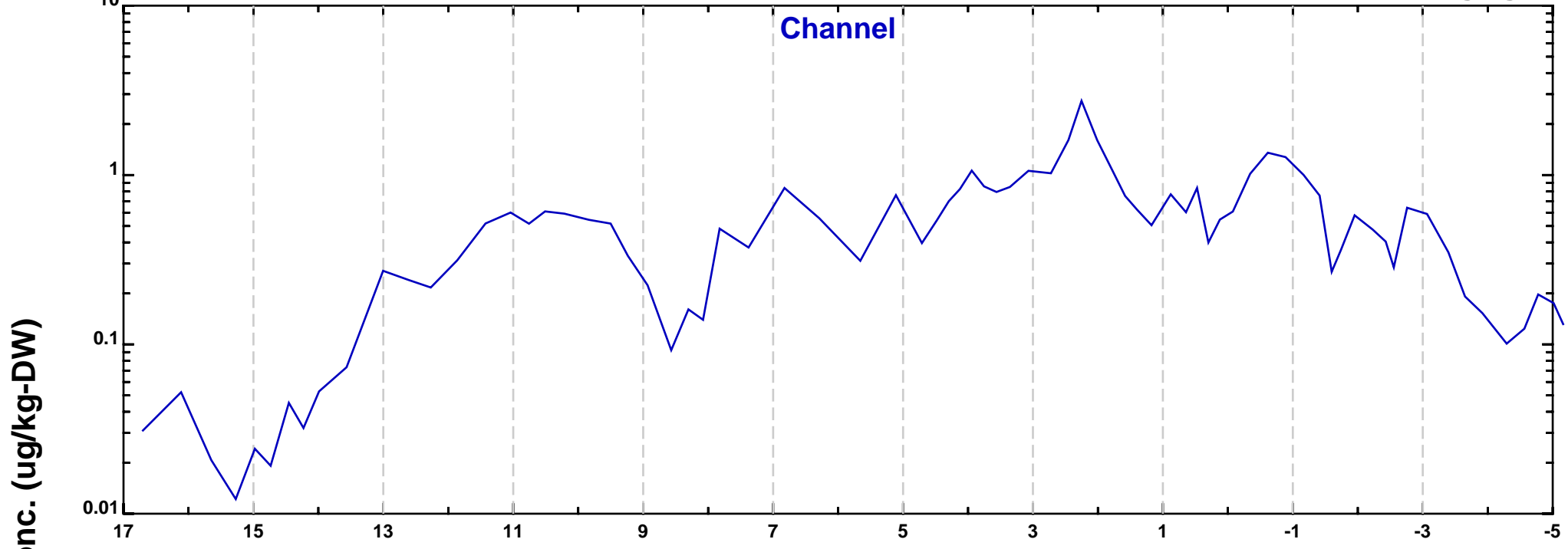
East Newark Bay shoal





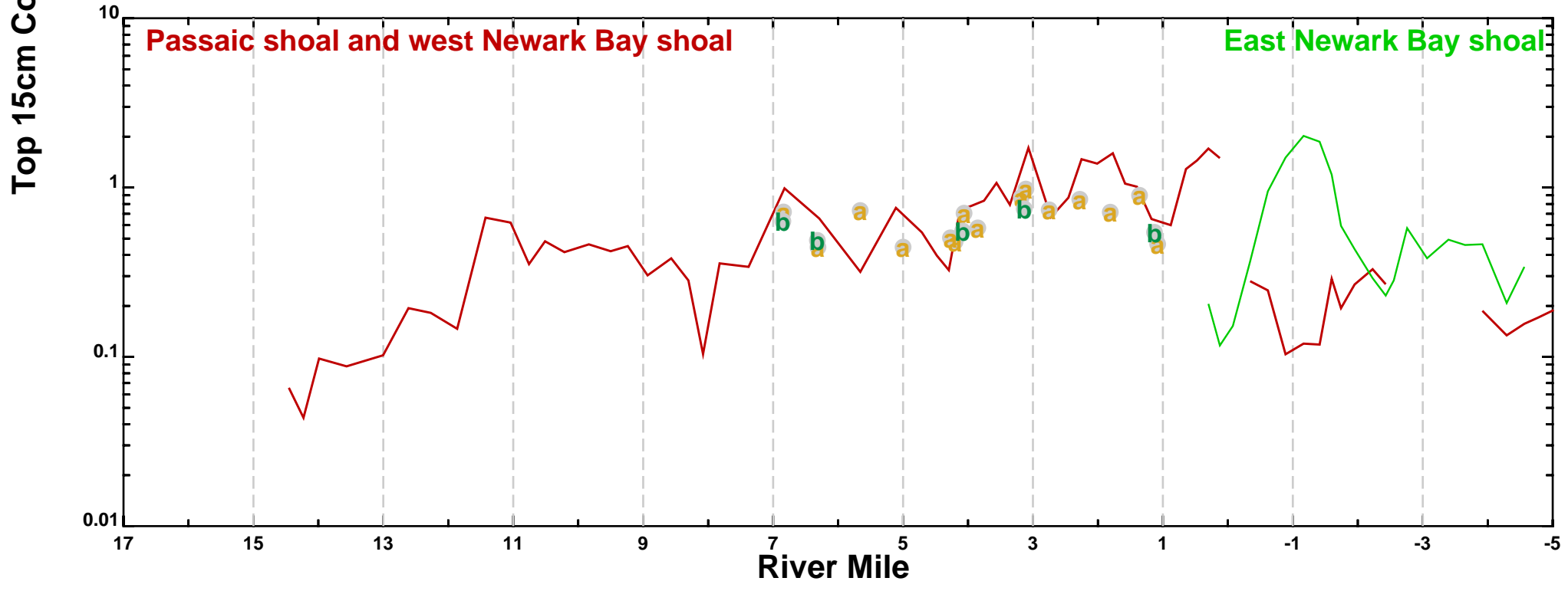
Year =2000.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



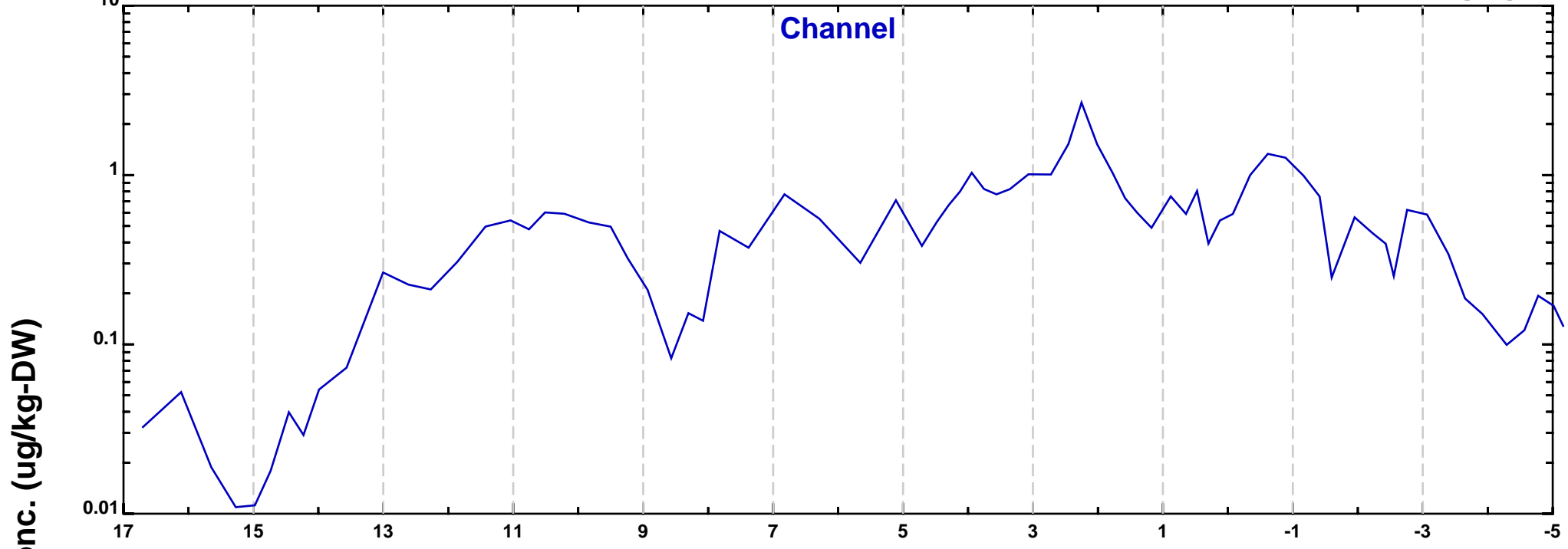
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



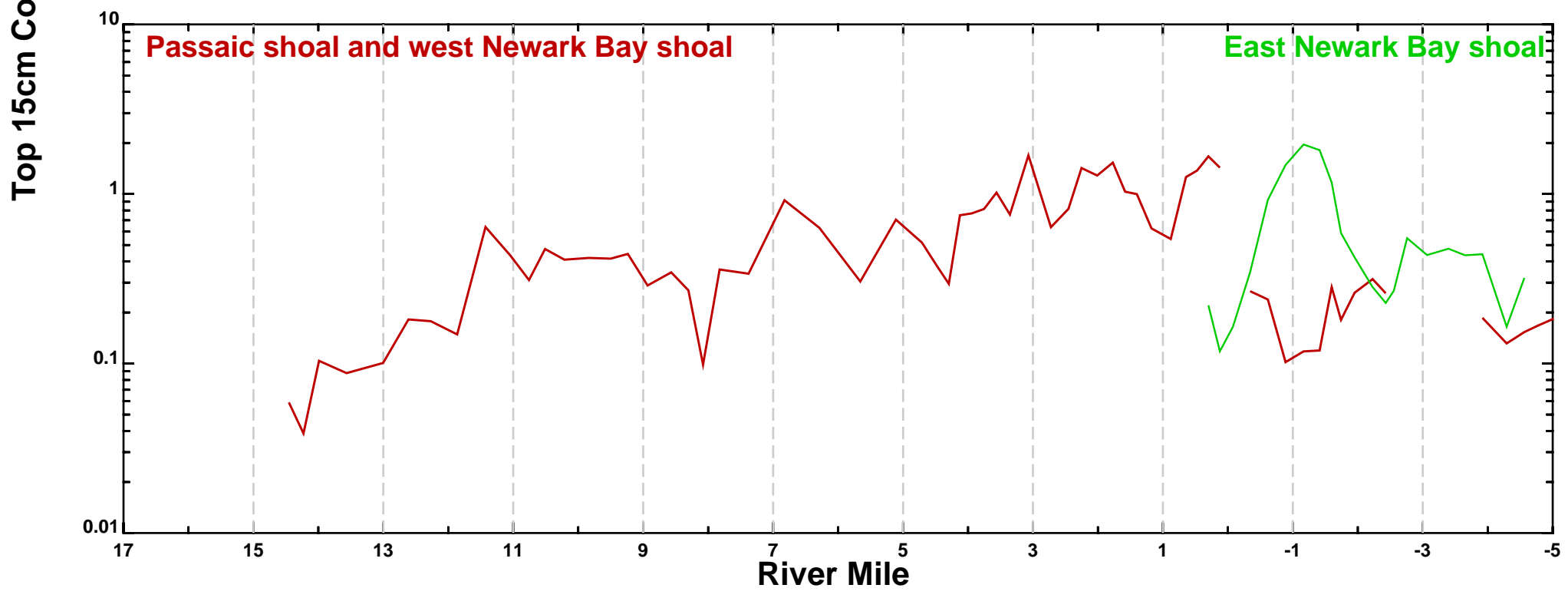
Year =2001.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



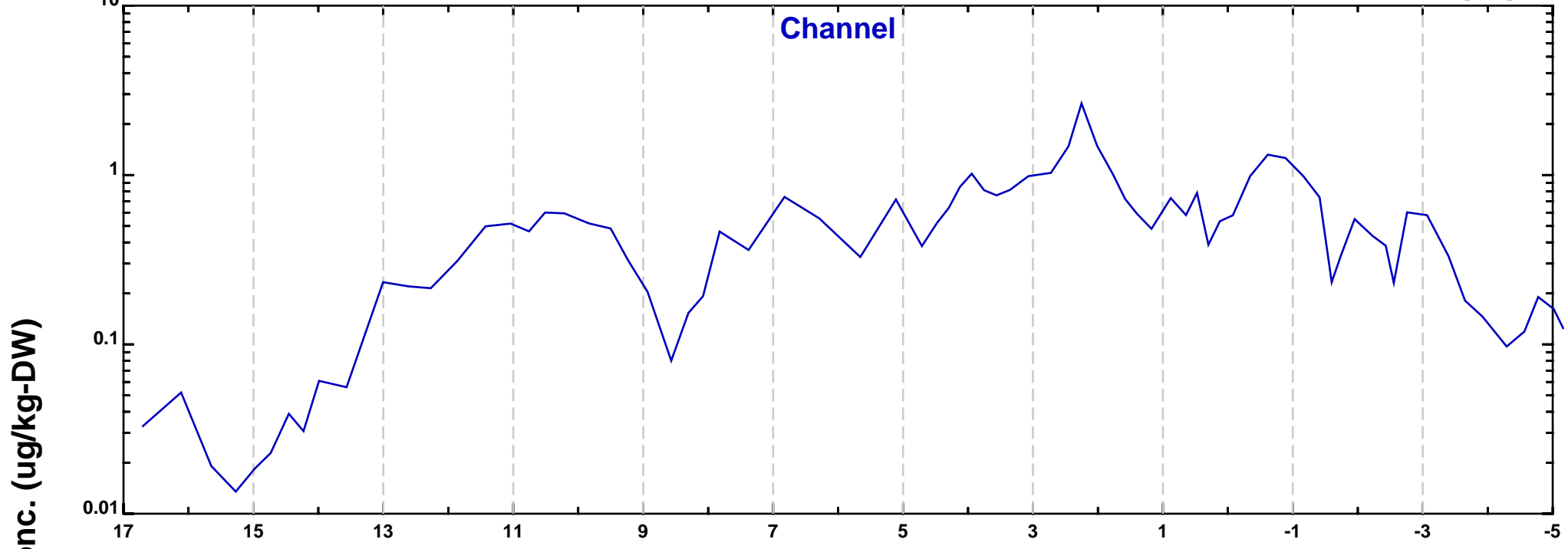
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



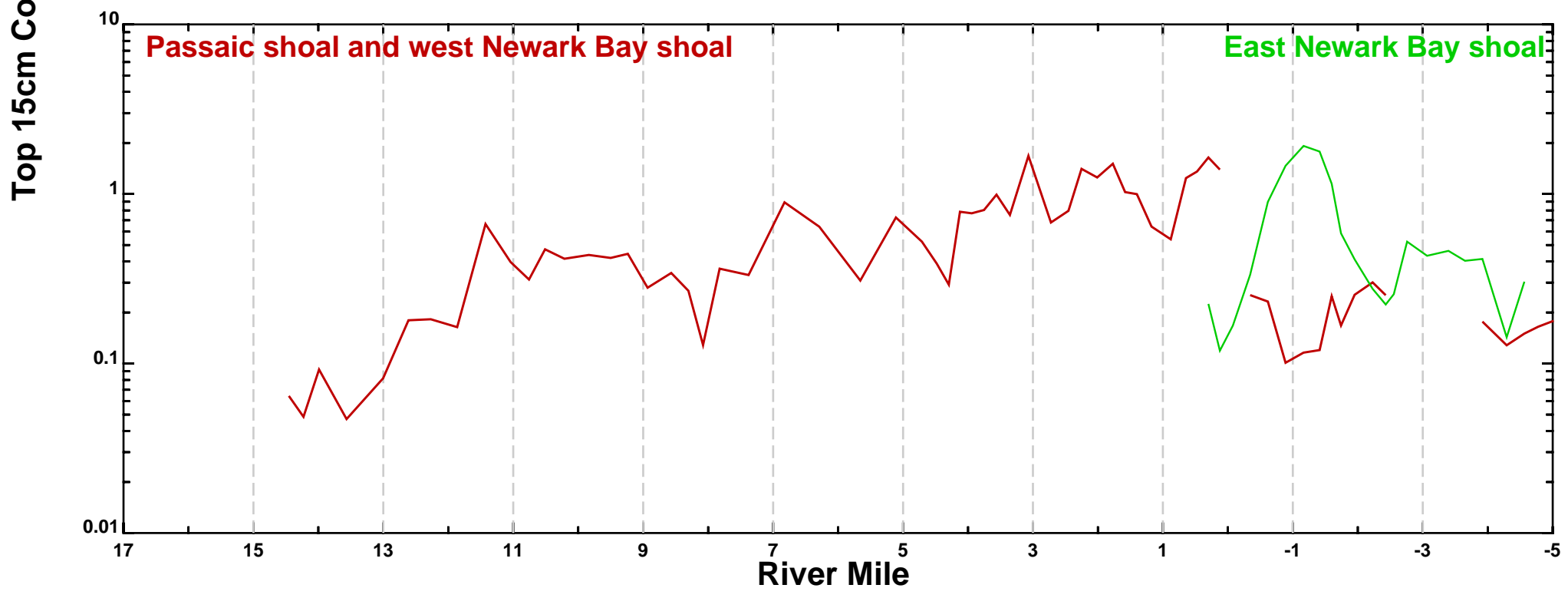
Year =2002.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



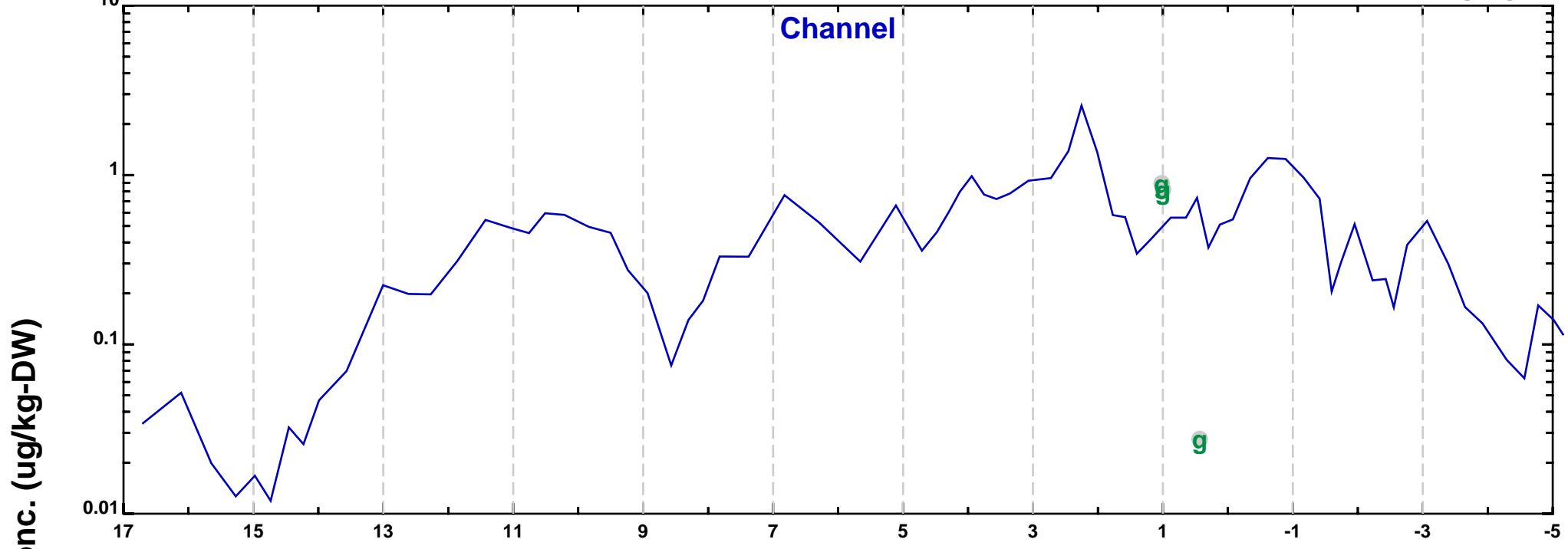
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



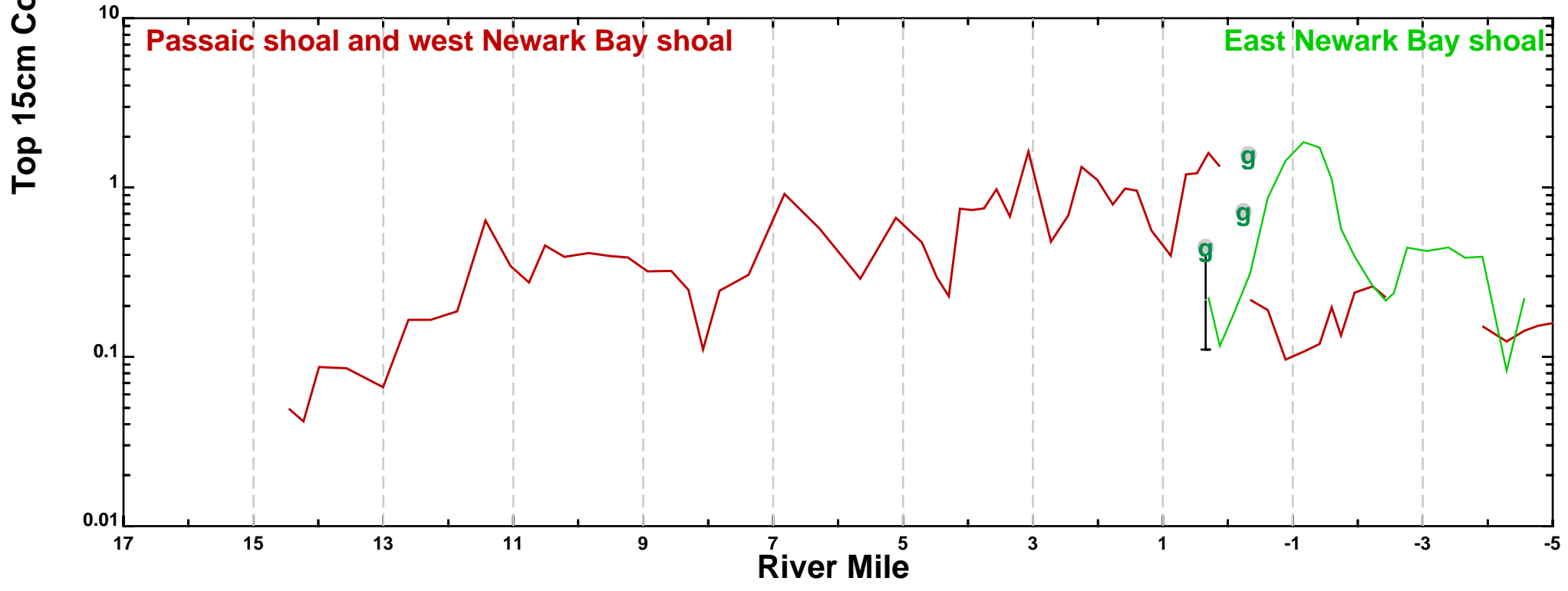
Year =2003.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



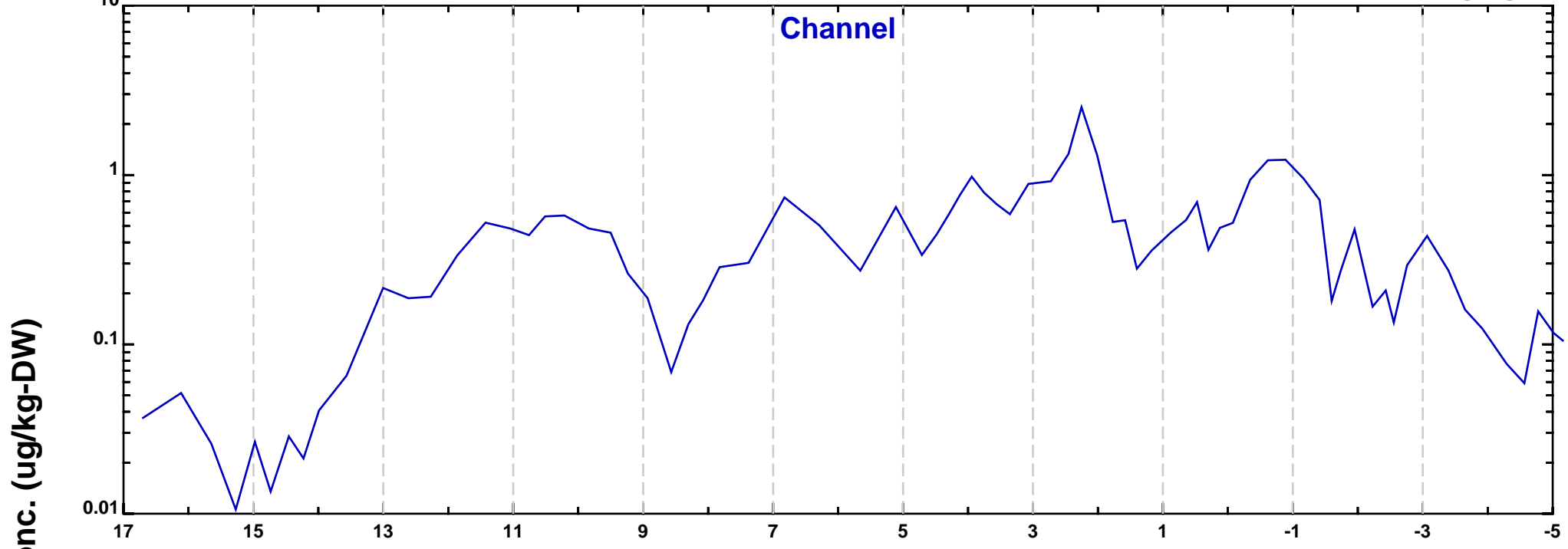
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



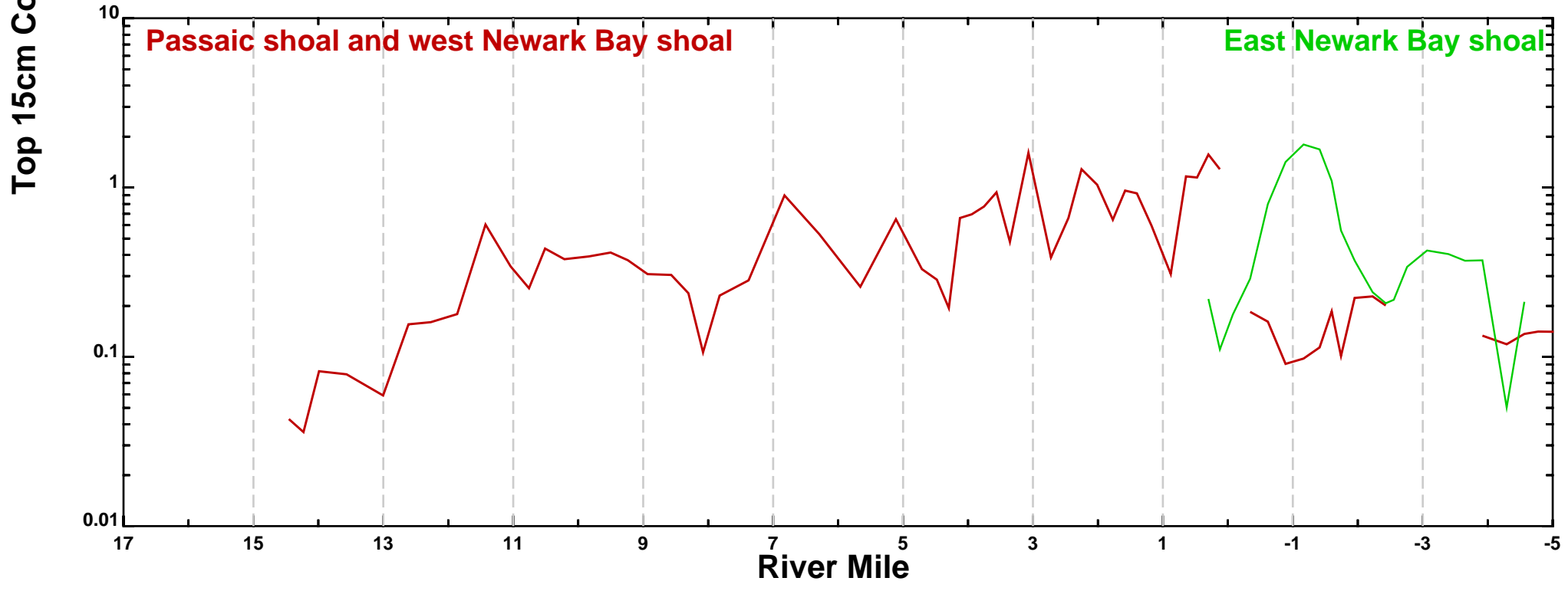
Year =2004.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

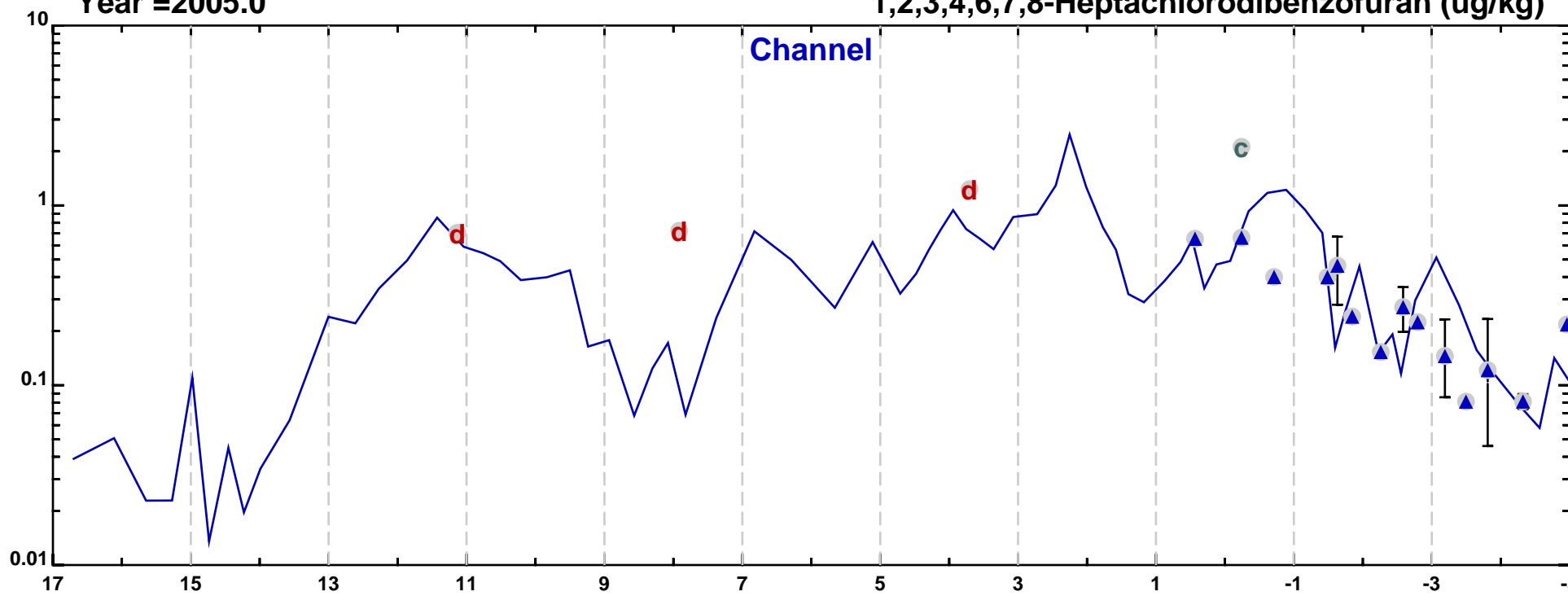


Year =2005.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

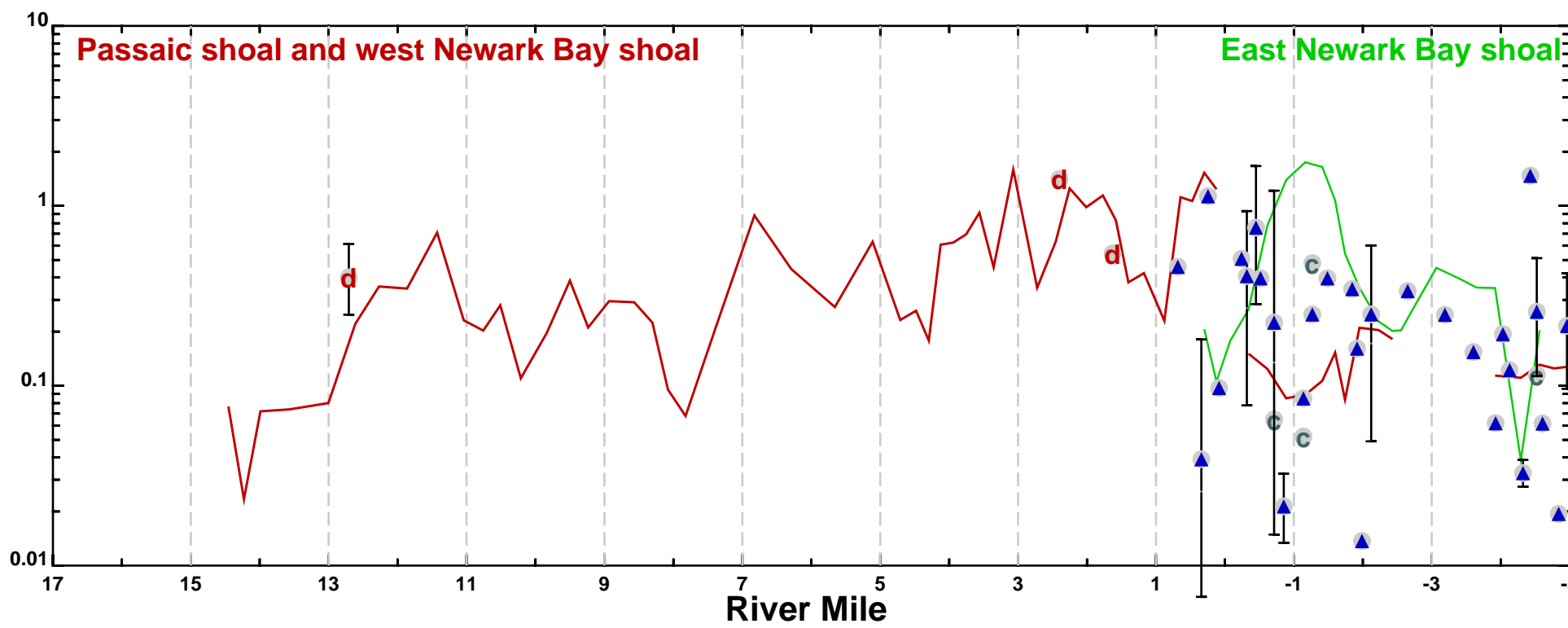
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

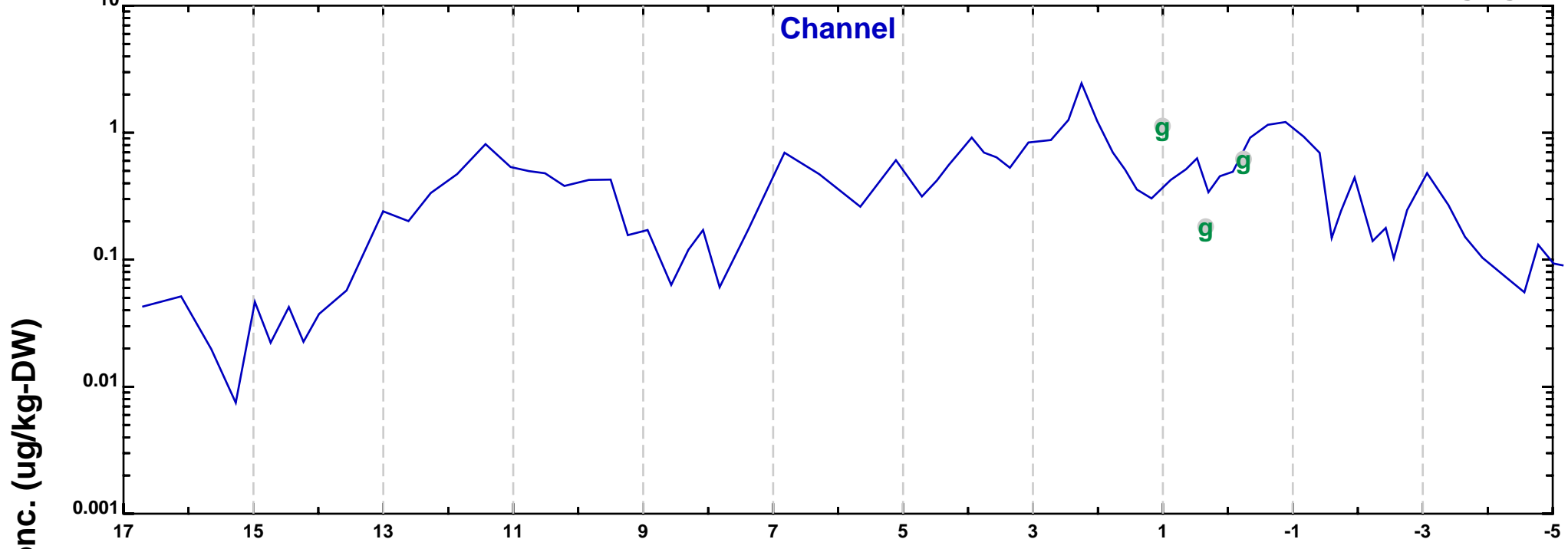
East Newark Bay shoal



River Mile

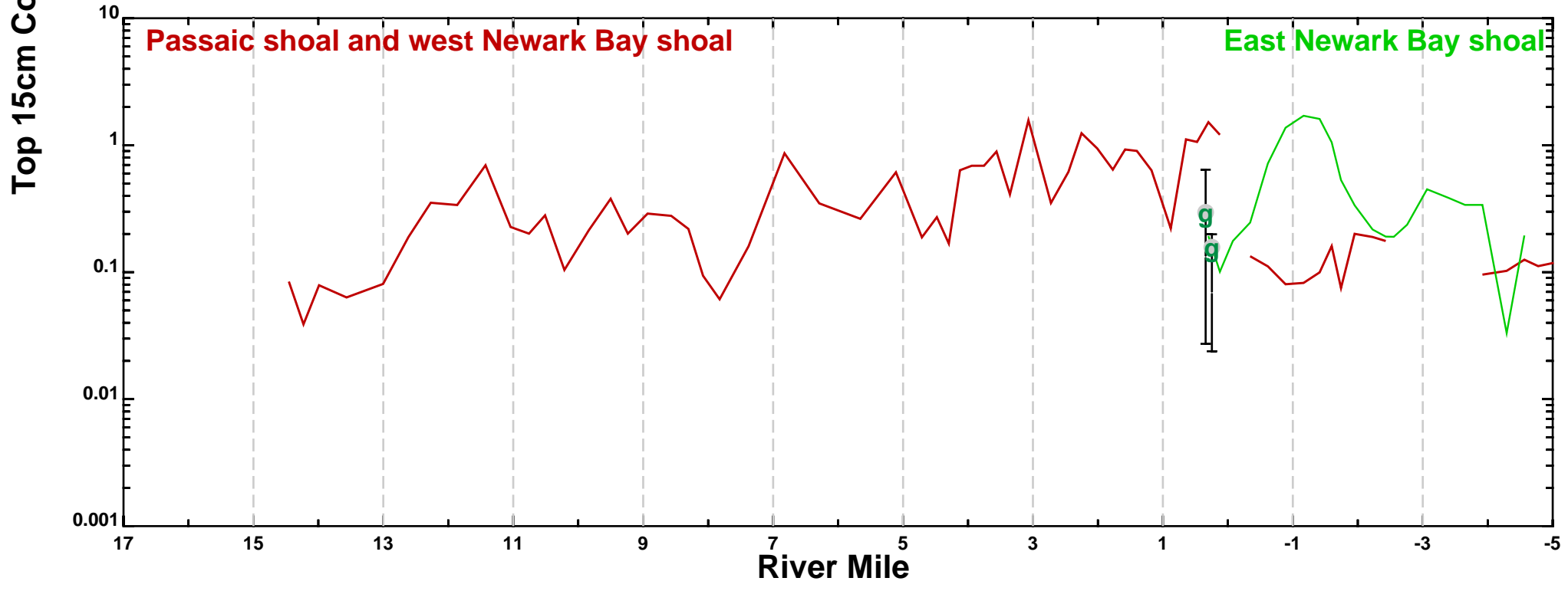
Year =2006.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

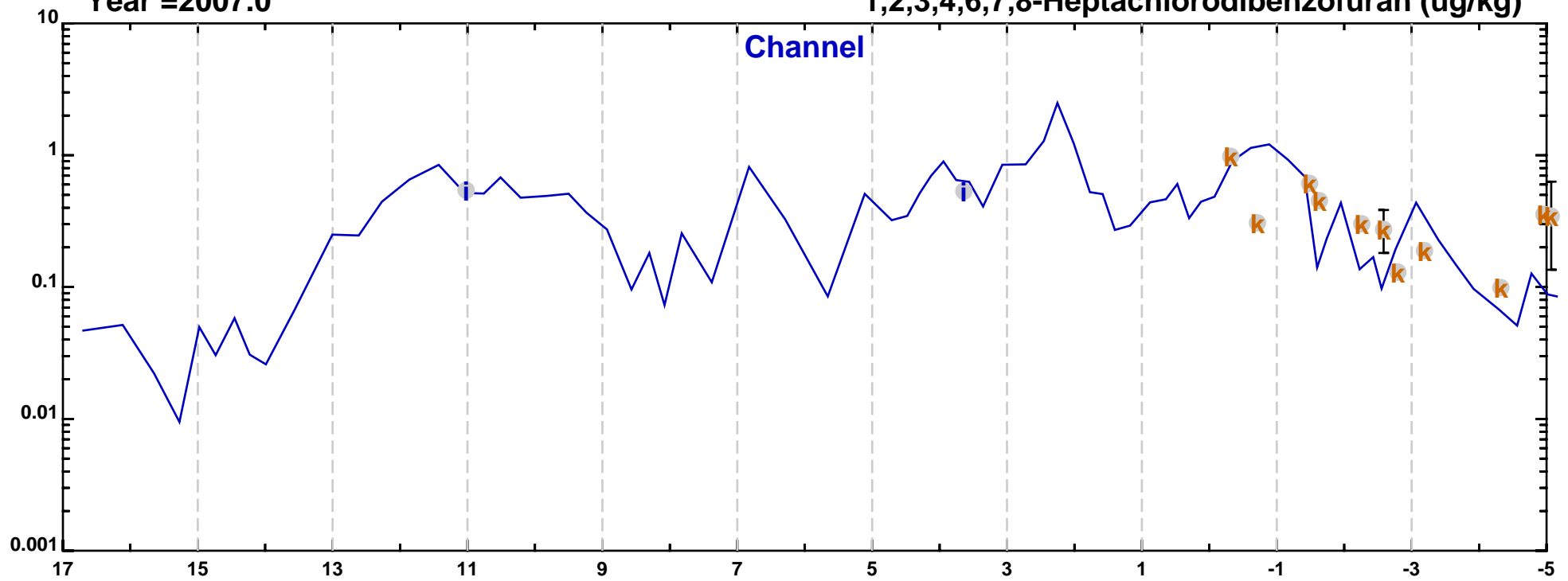
East Newark Bay shoal



Year =2007.0

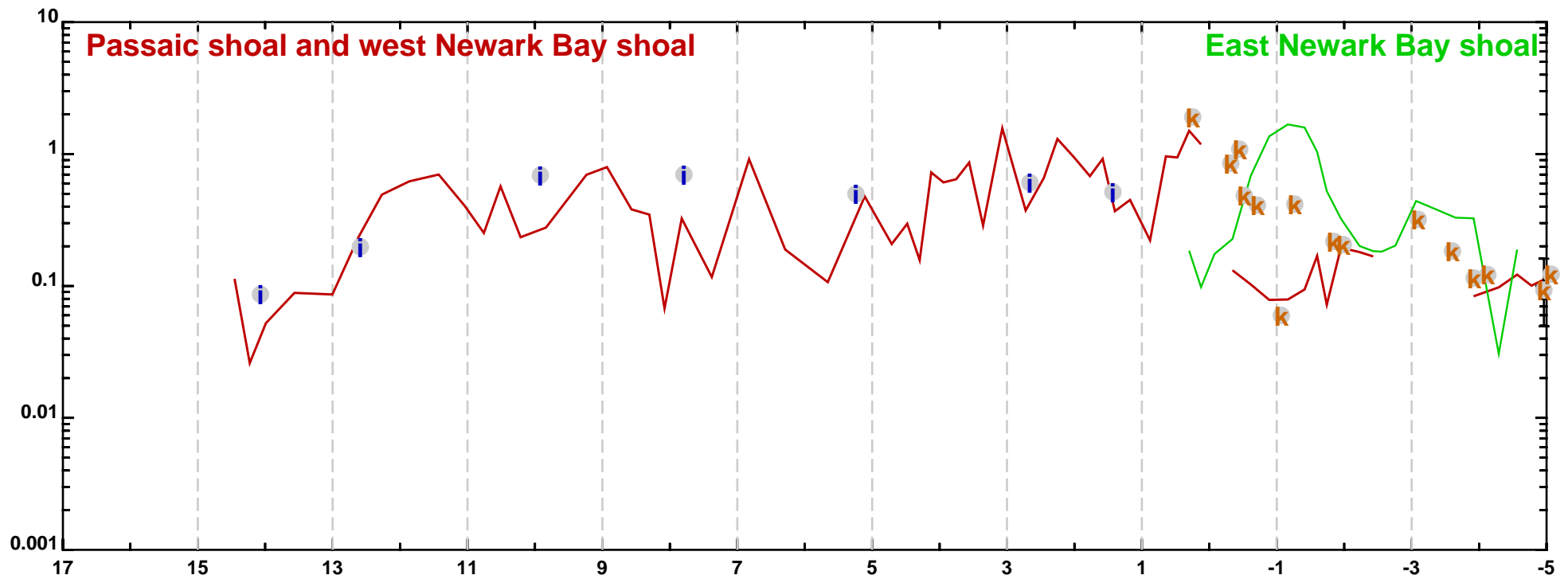
1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

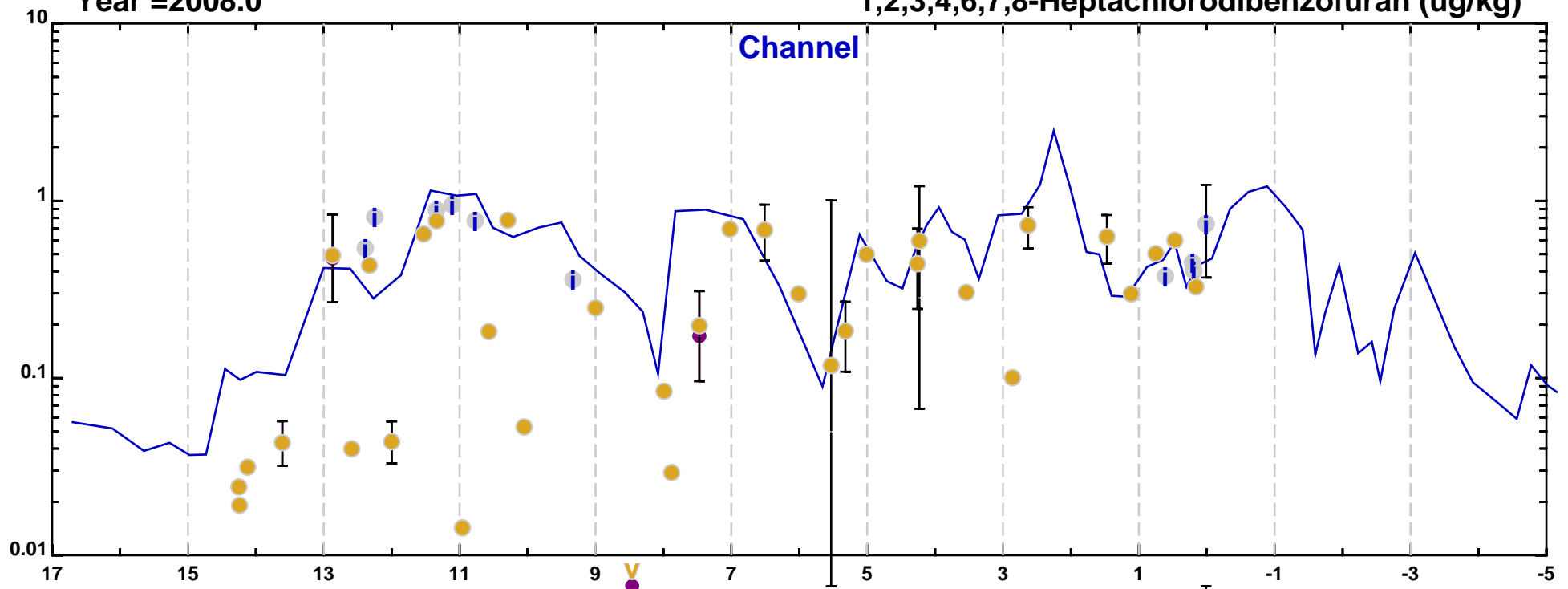


Year =2008.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

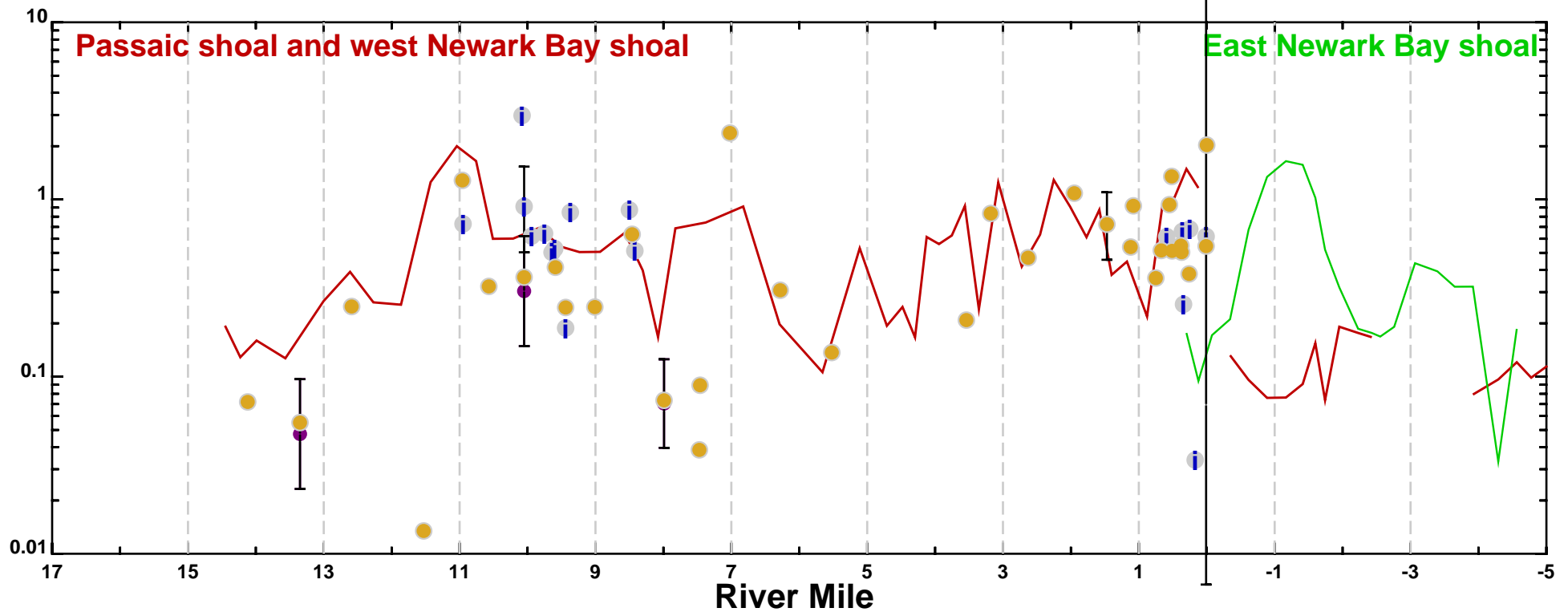
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2009.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

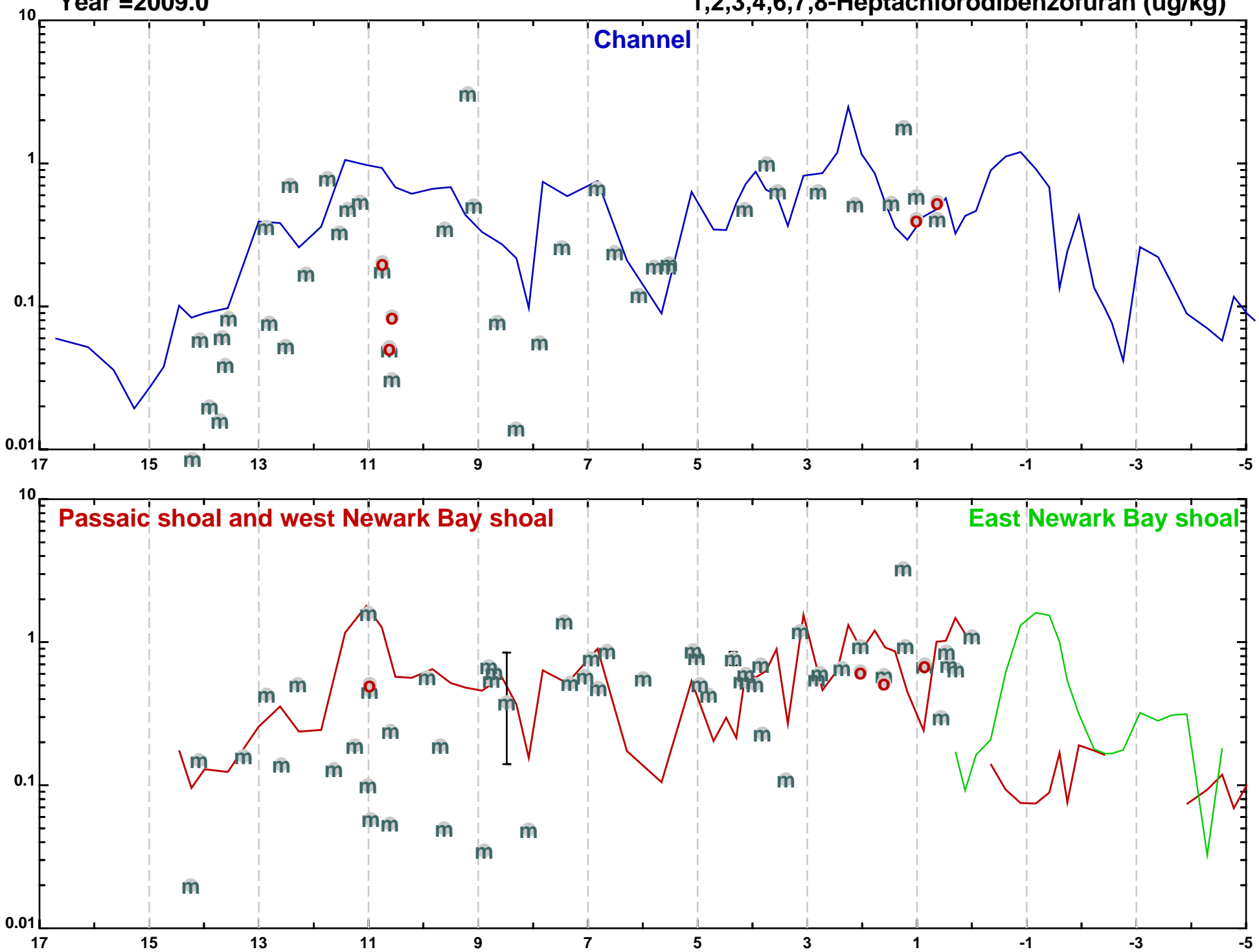
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

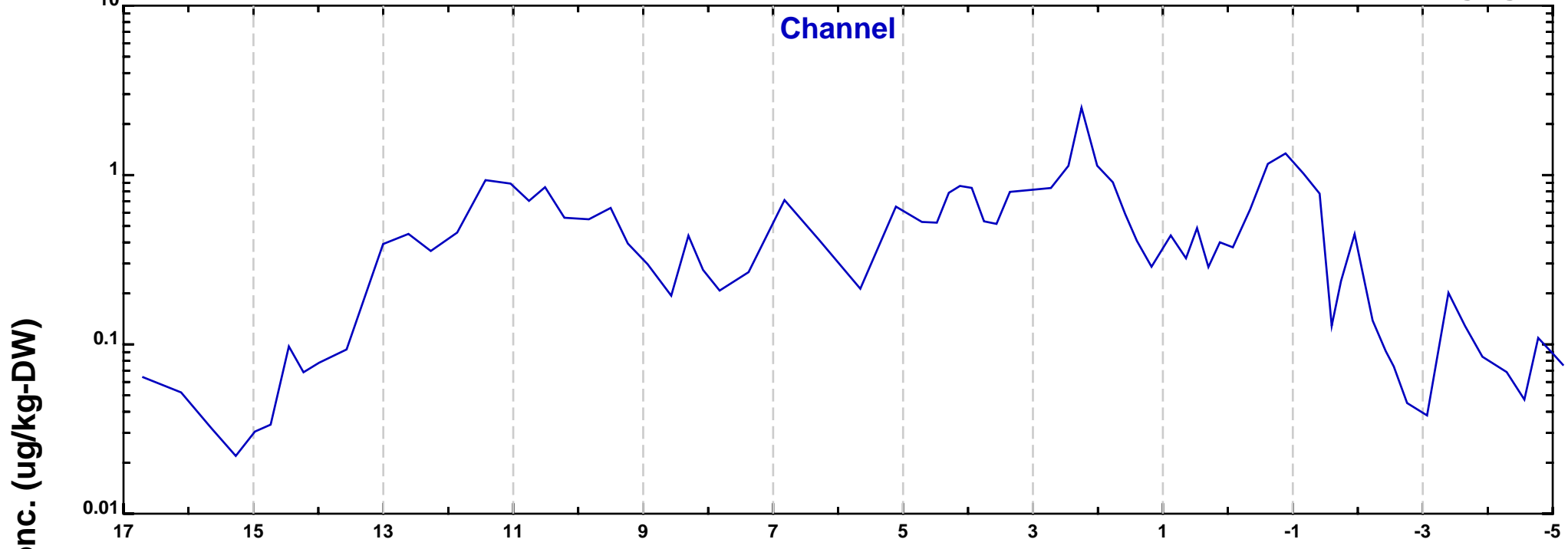
East Newark Bay shoal

River Mile



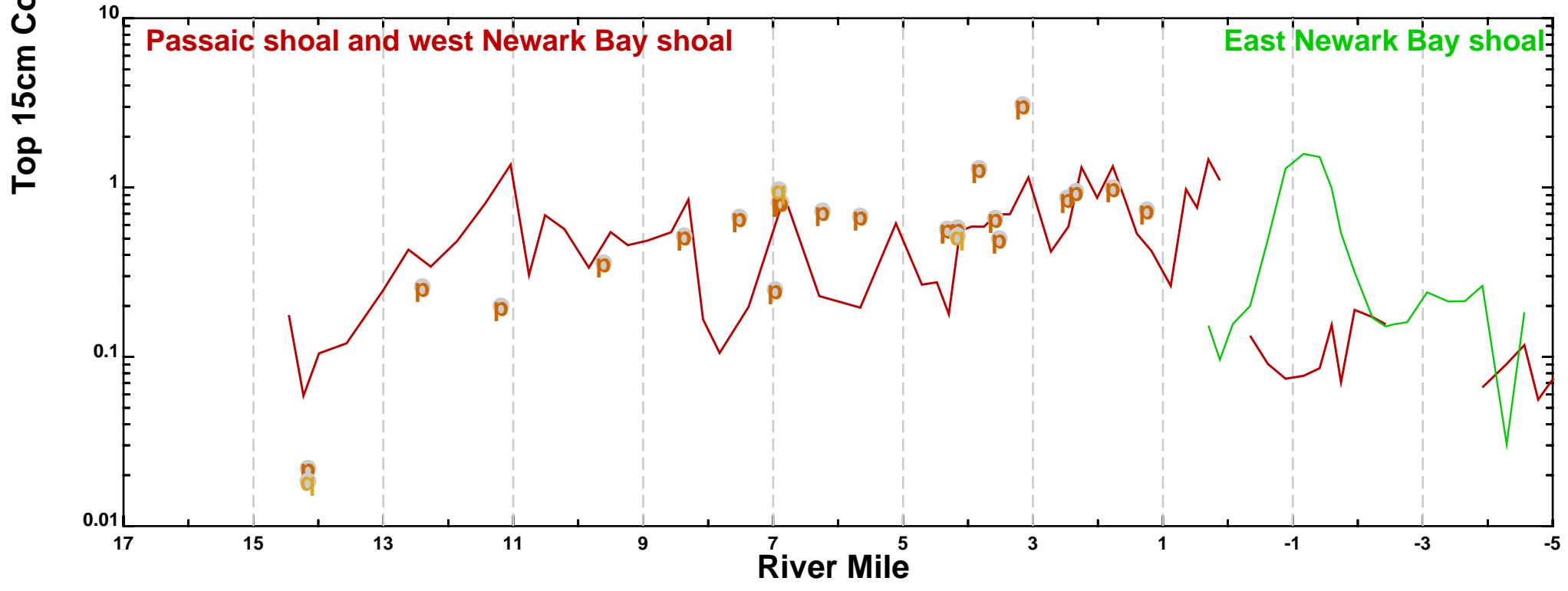
Year =2010.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2011.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

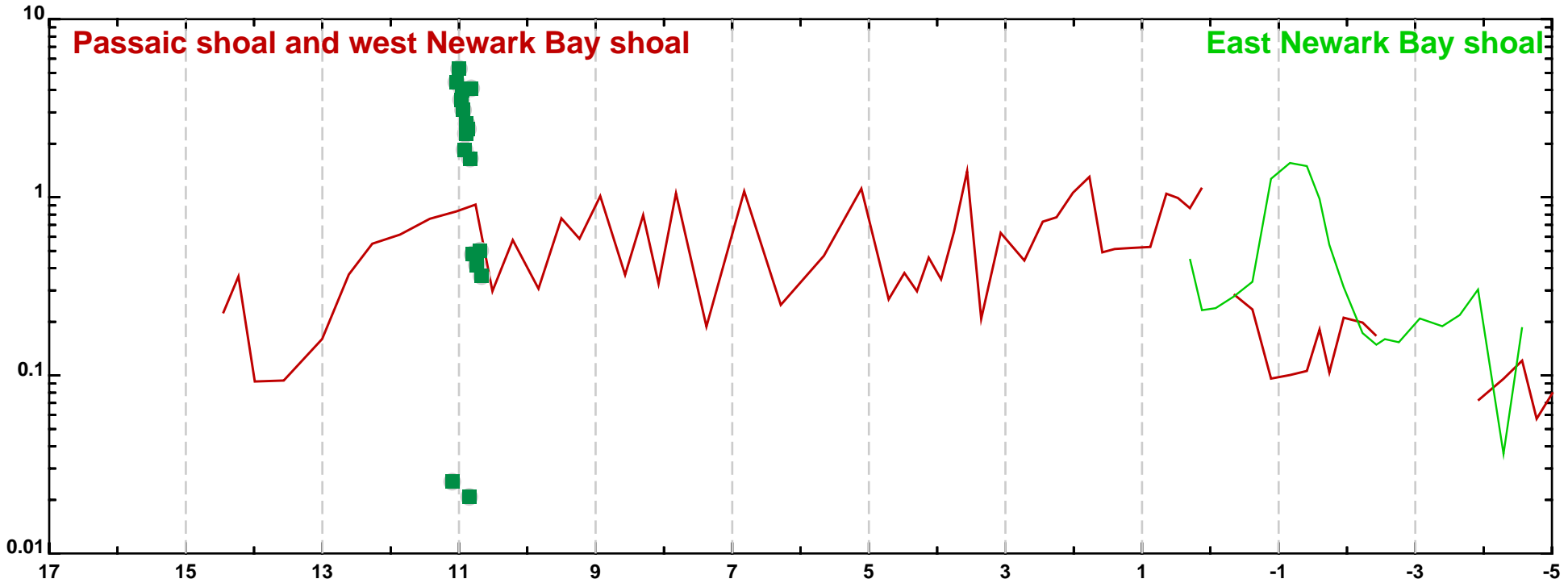
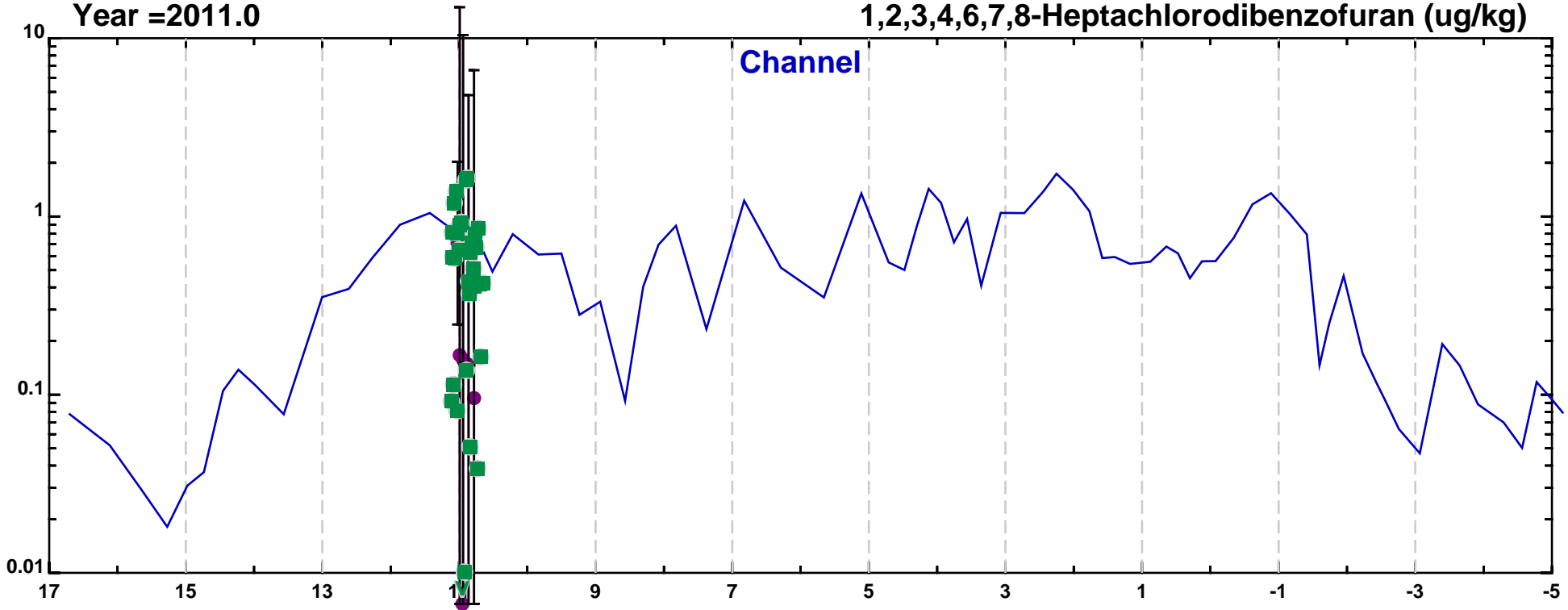
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

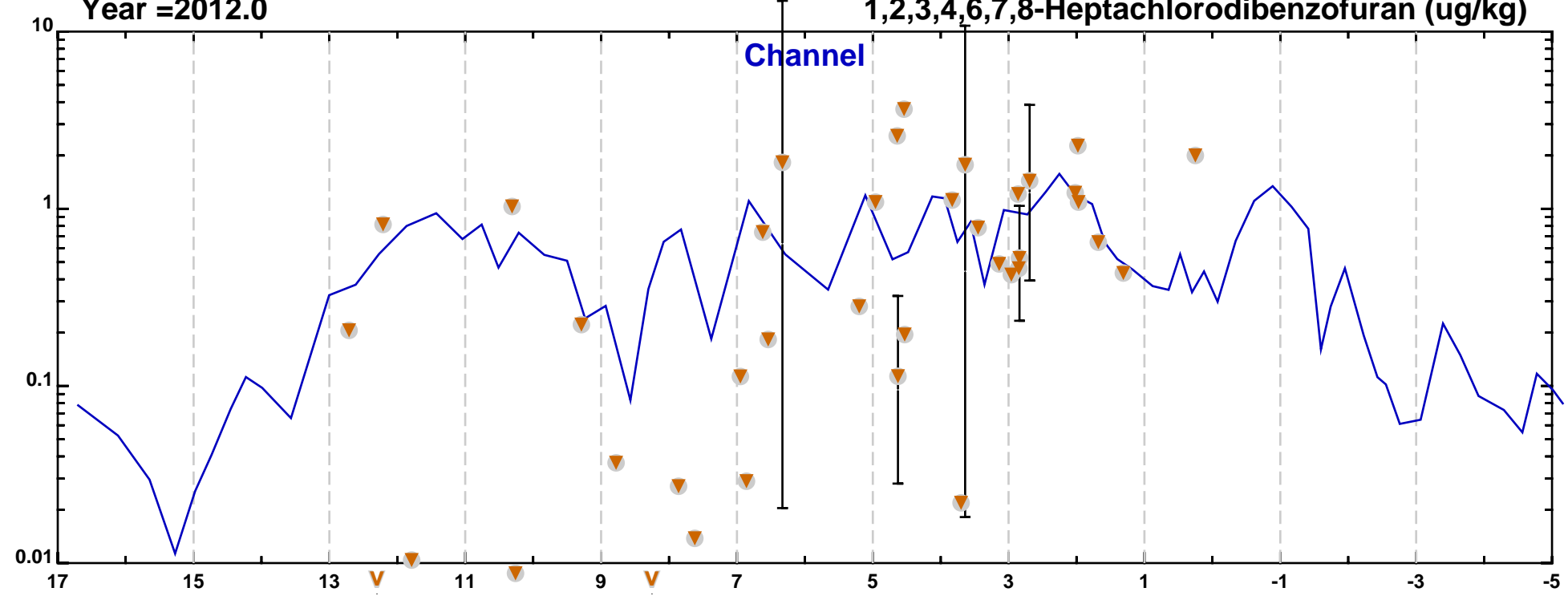


Year =2012.0

1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

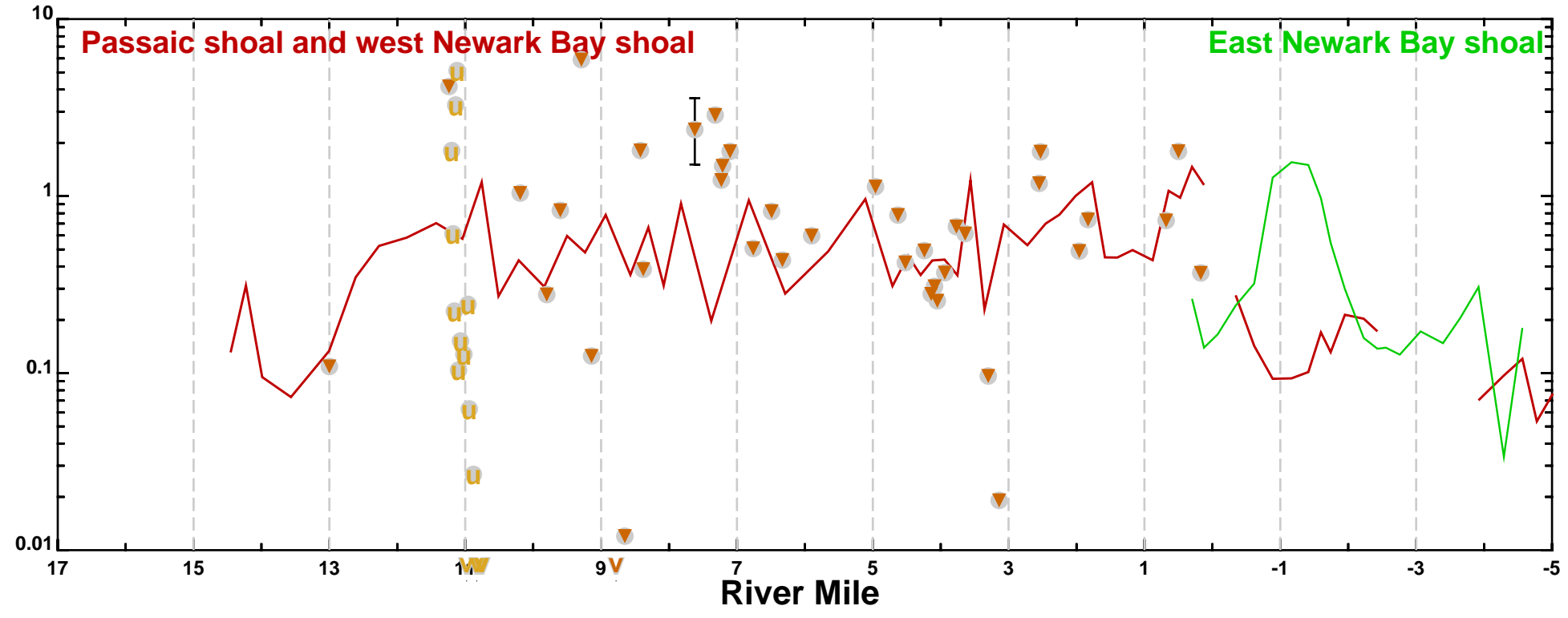
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

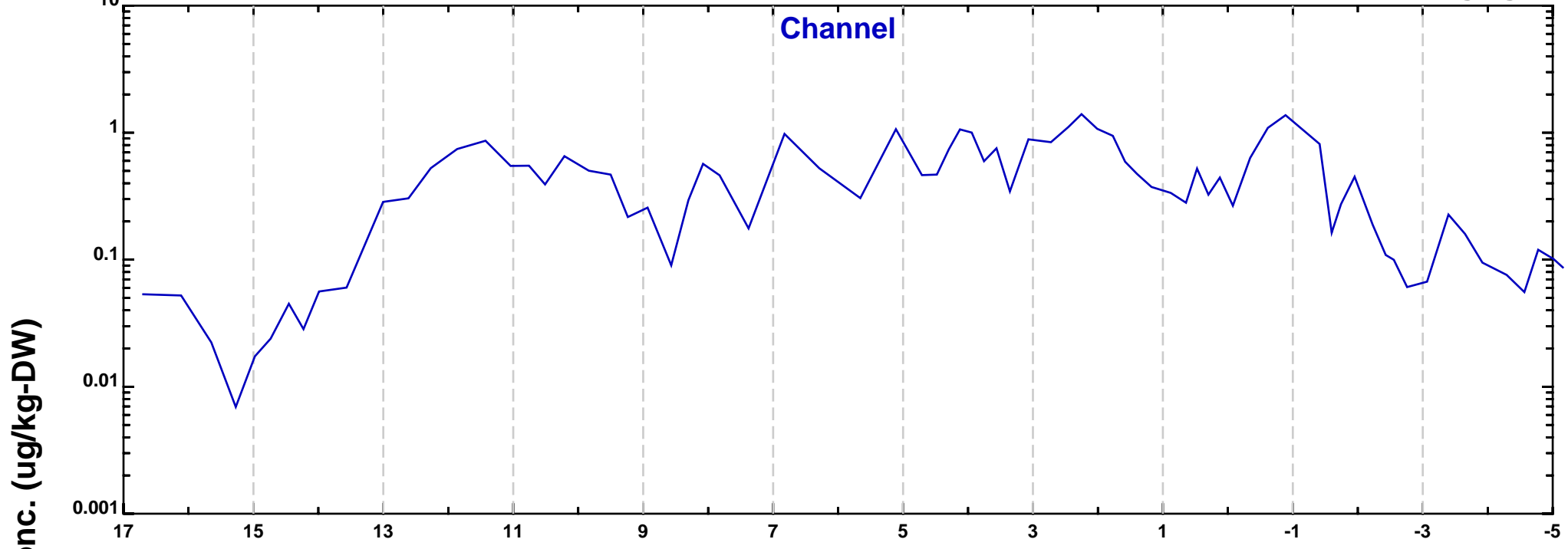
East Newark Bay shoal



River Mile

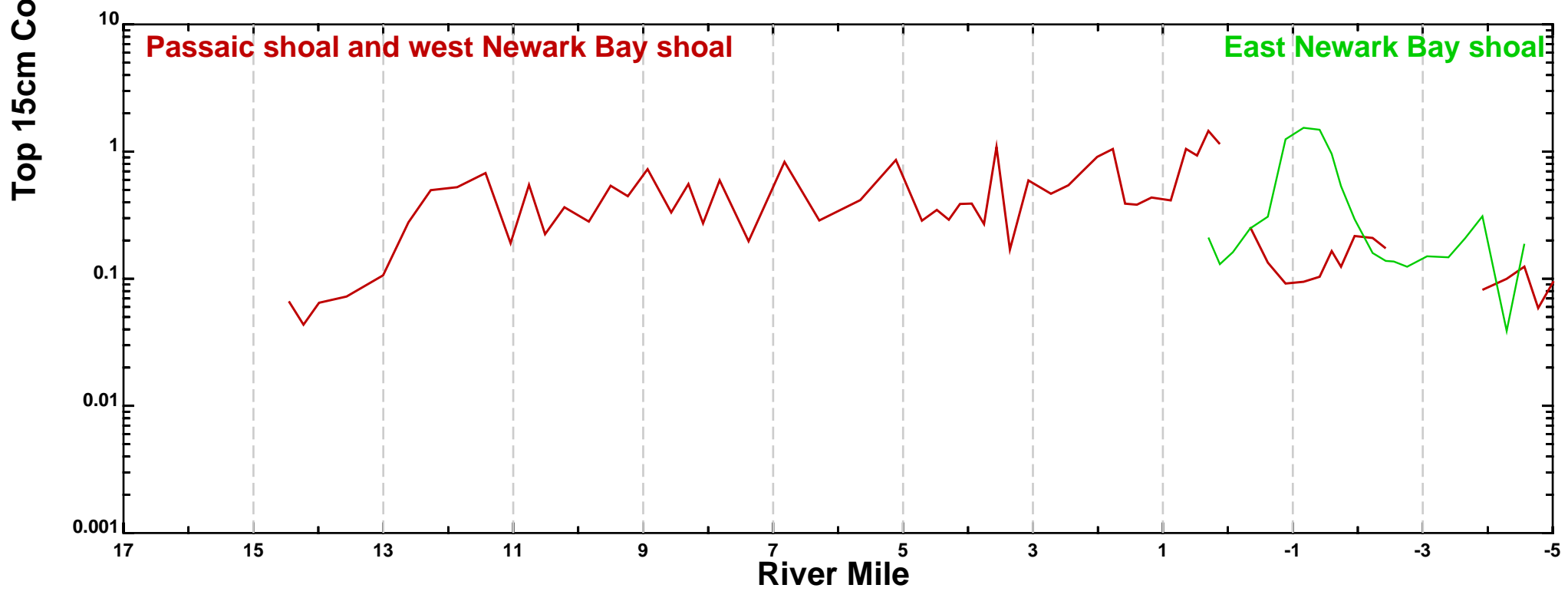
Year =2013.0

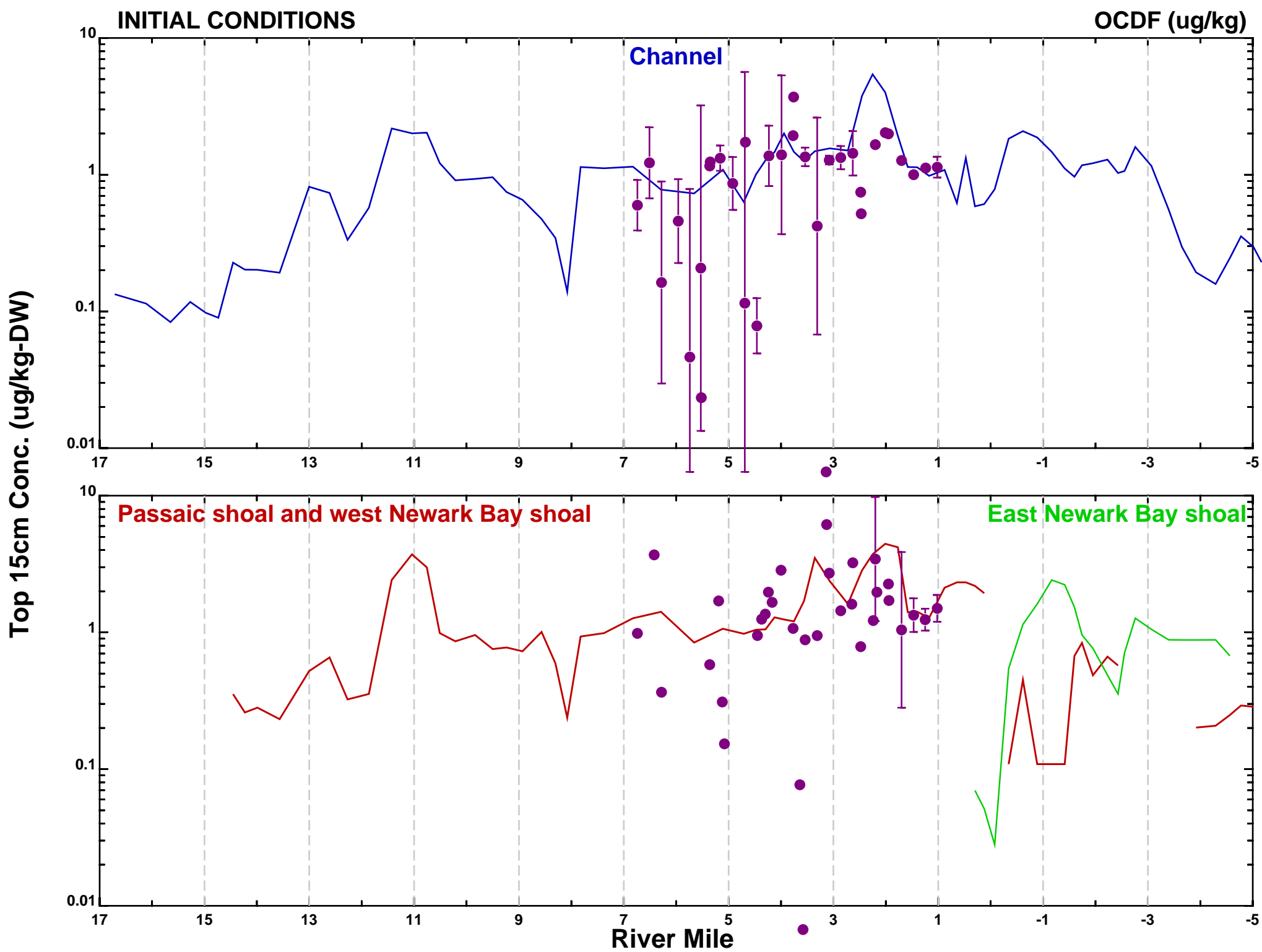
1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg)

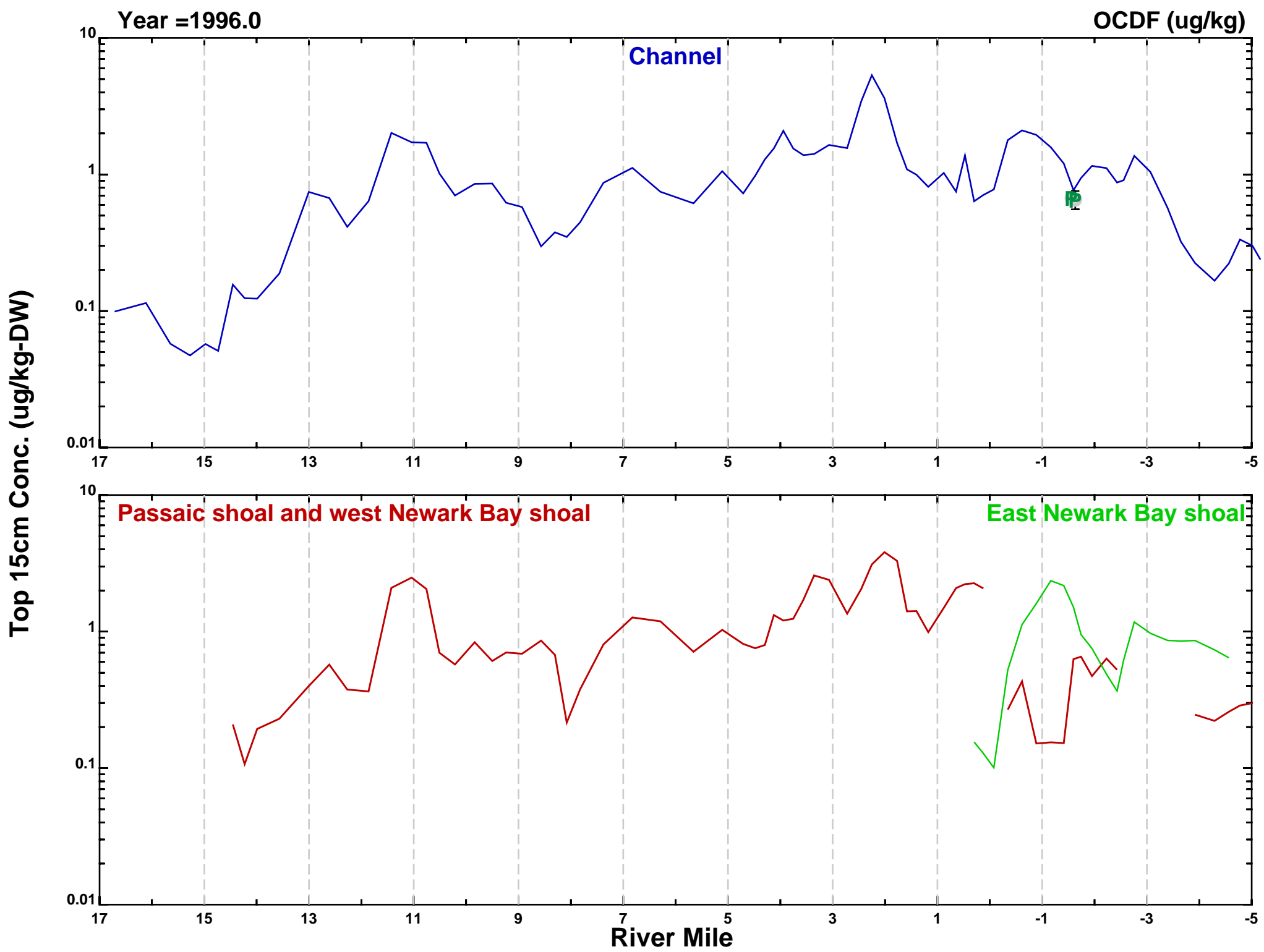


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



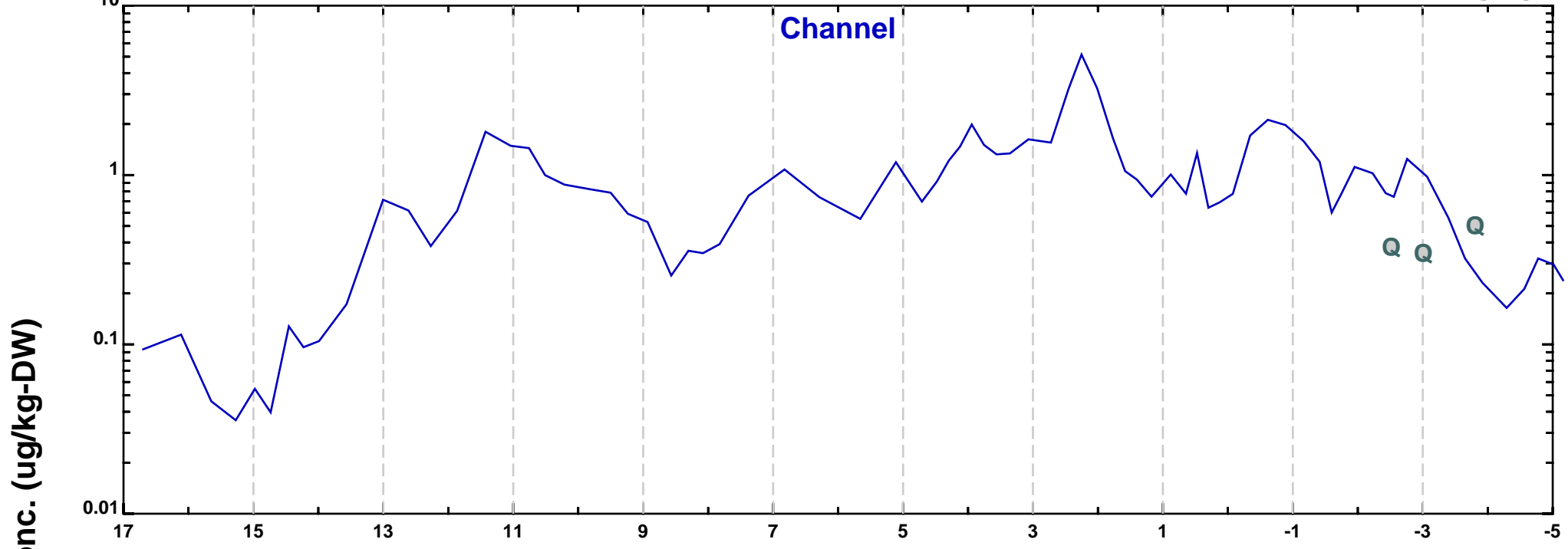






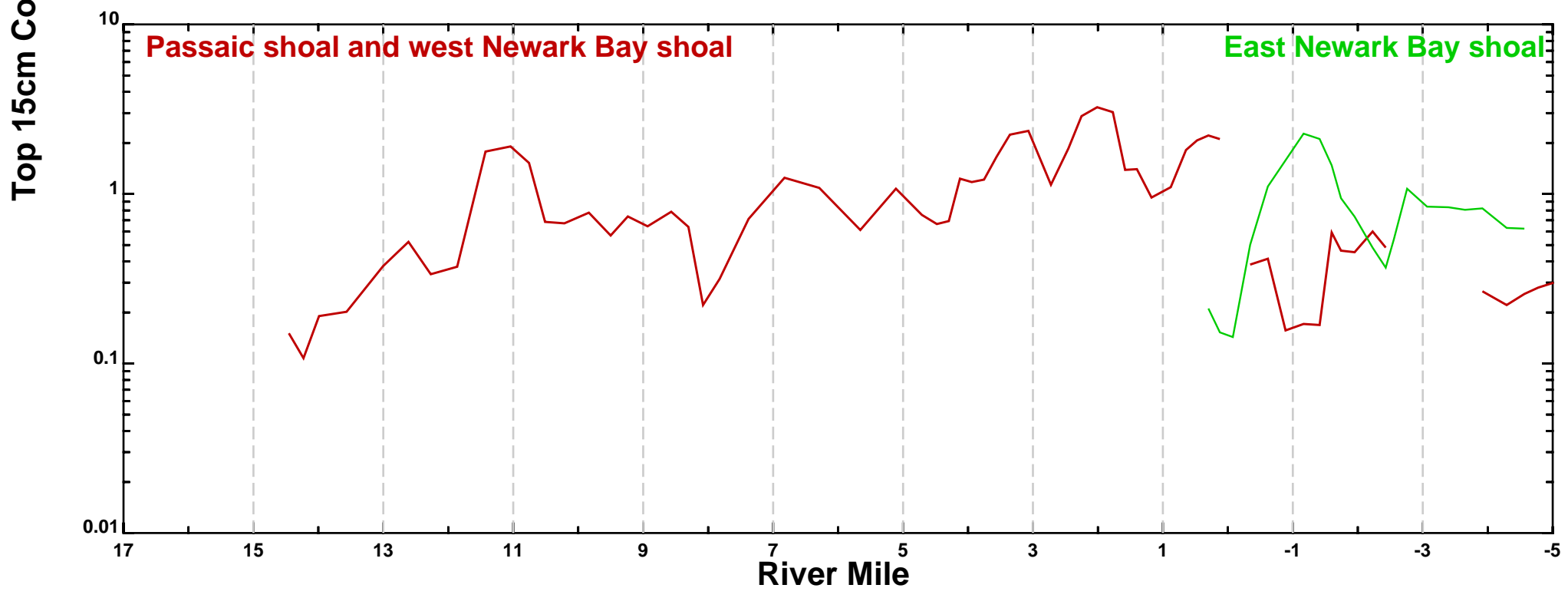
Year = 1997.0

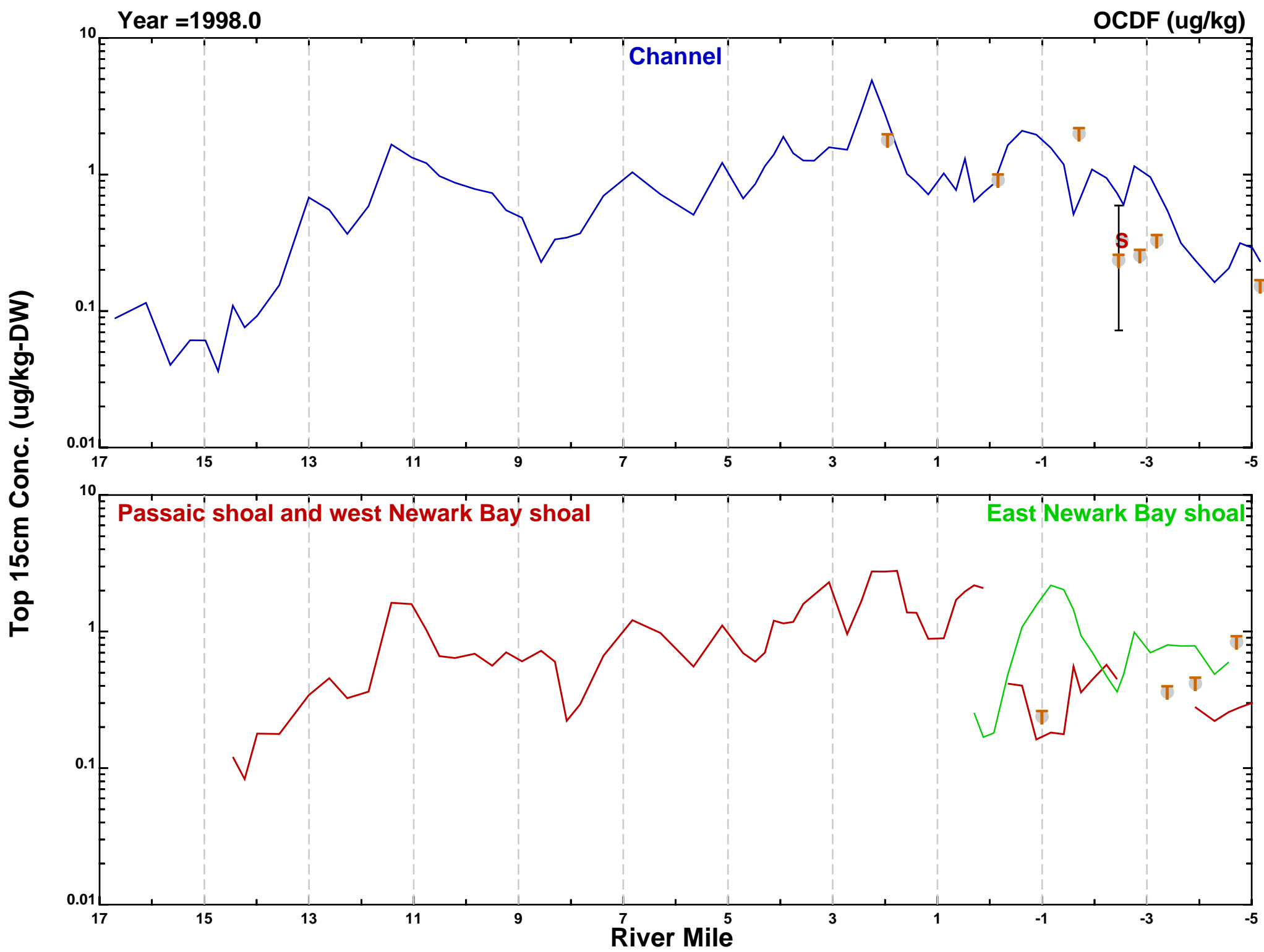
OCDF (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



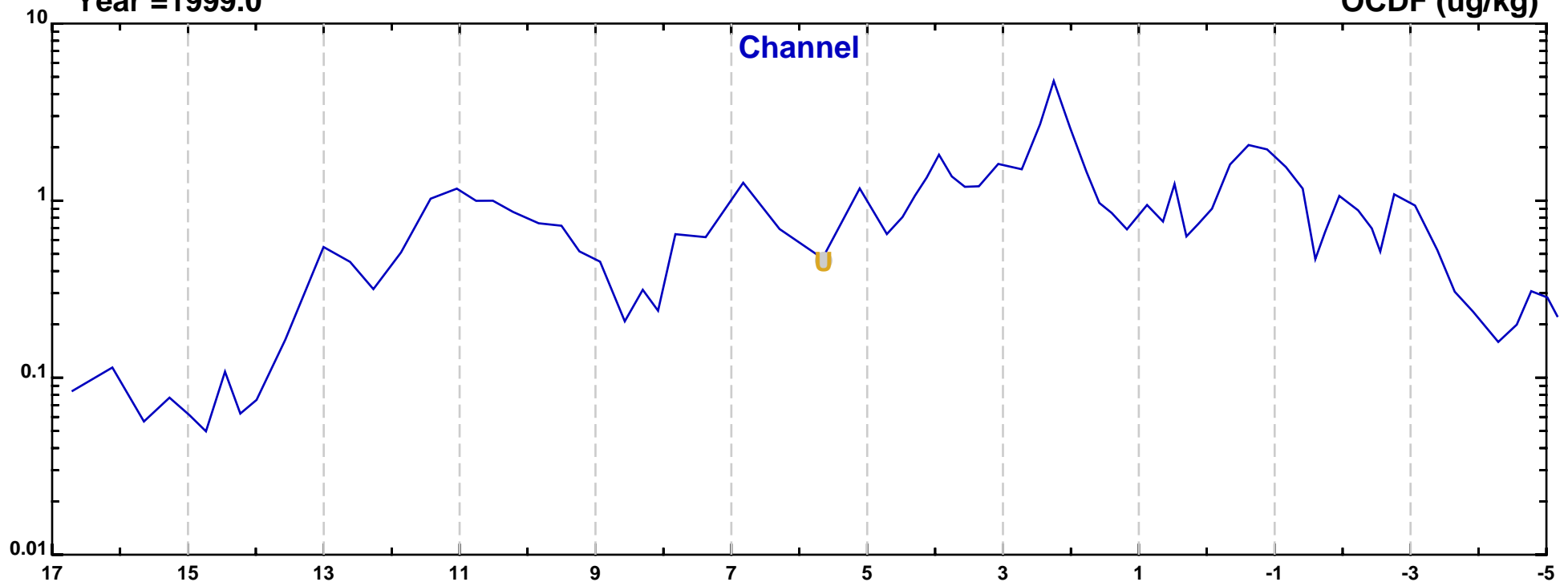


Year = 1999.0

OCDFF (ug/kg)

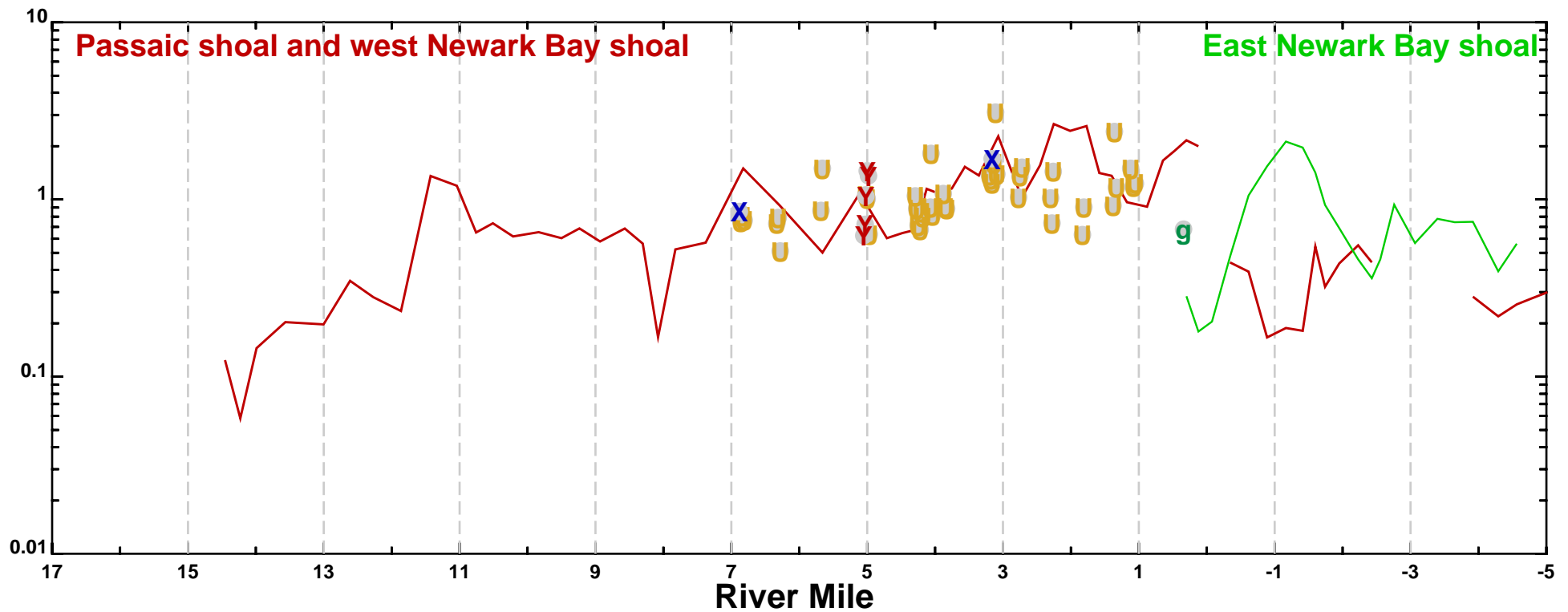
Top 15cm Conc. (ug/kg-DW)

Channel

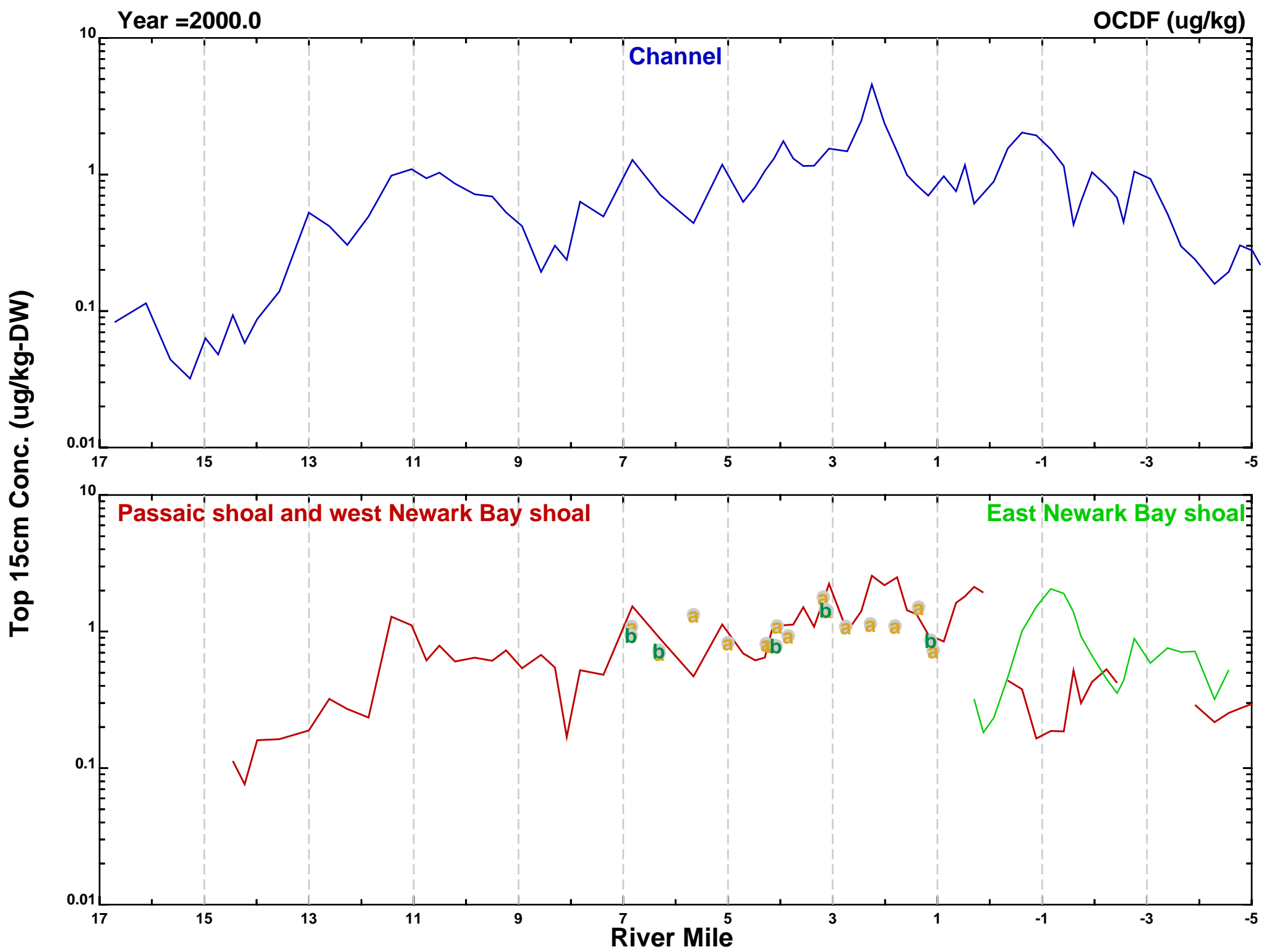


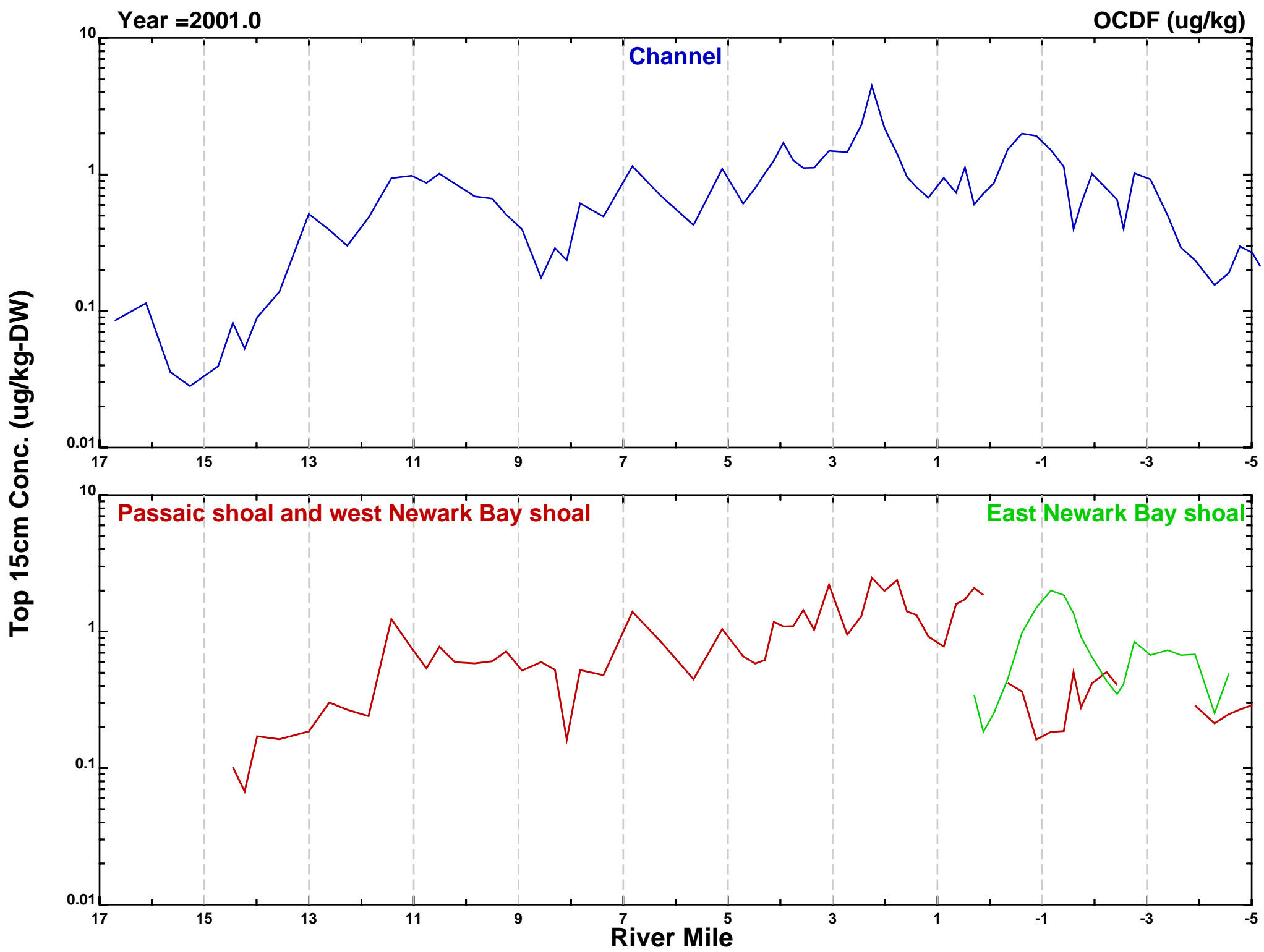
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



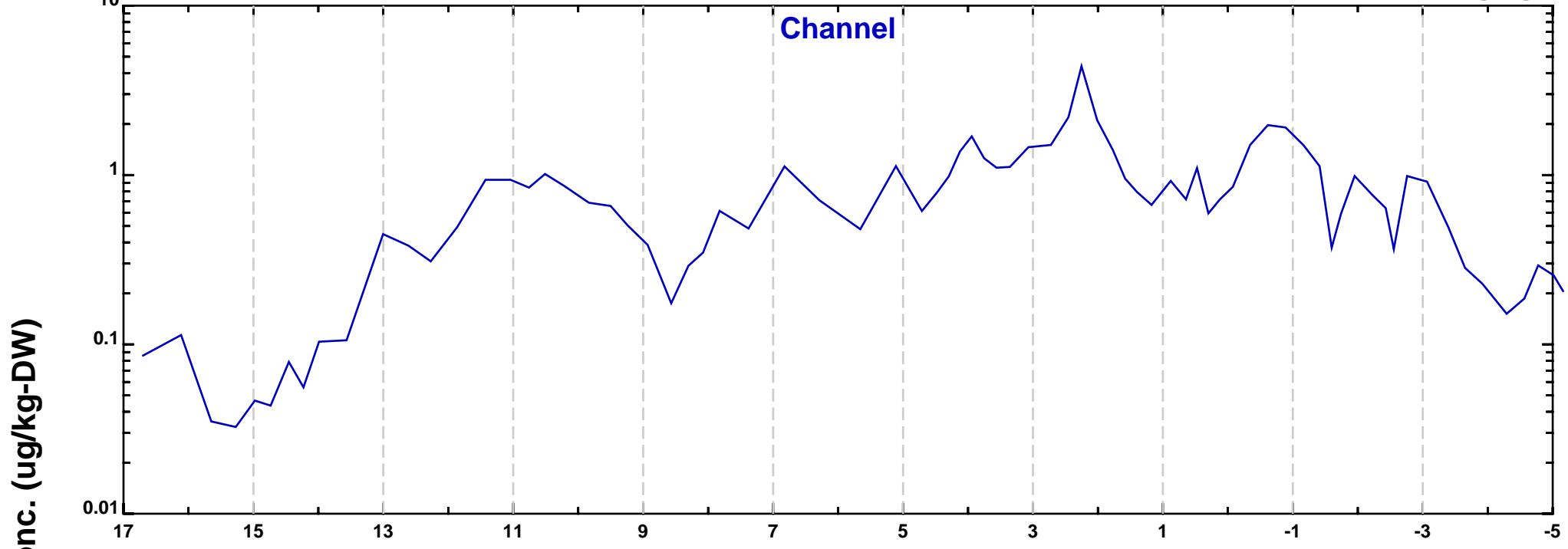
River Mile





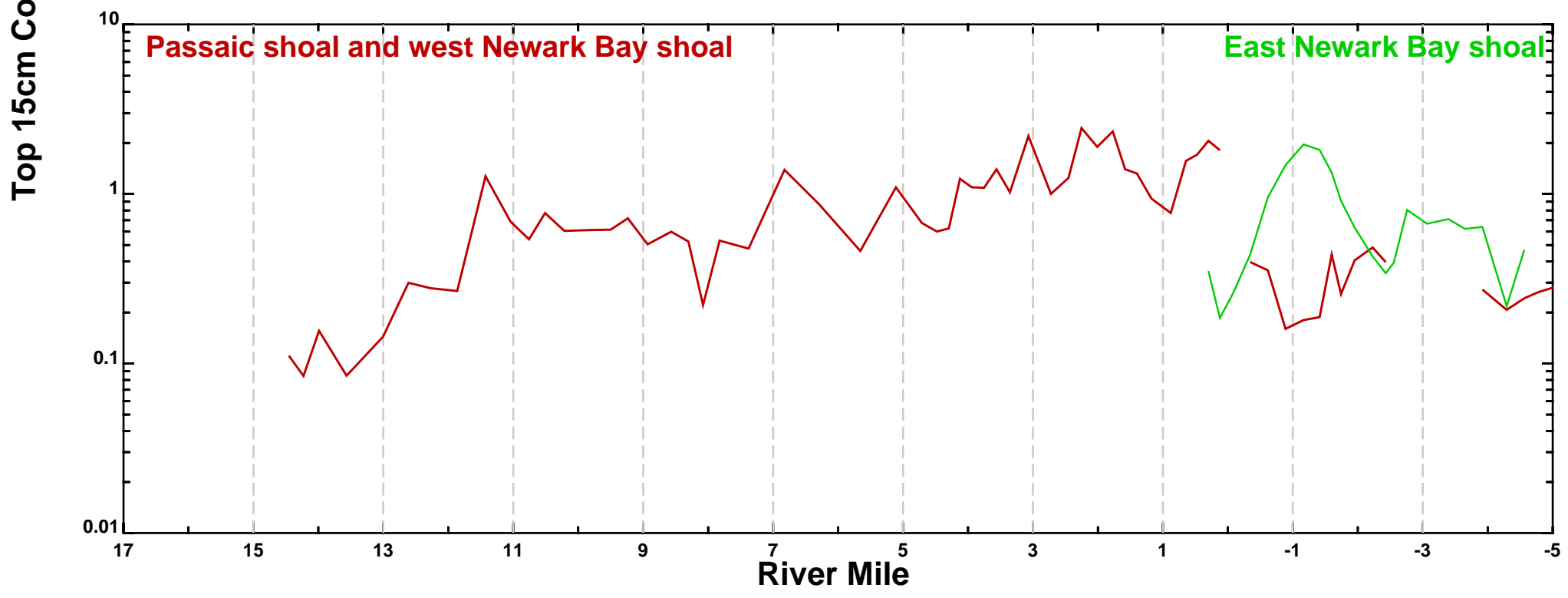
Year =2002.0

OCDFF (ug/kg)



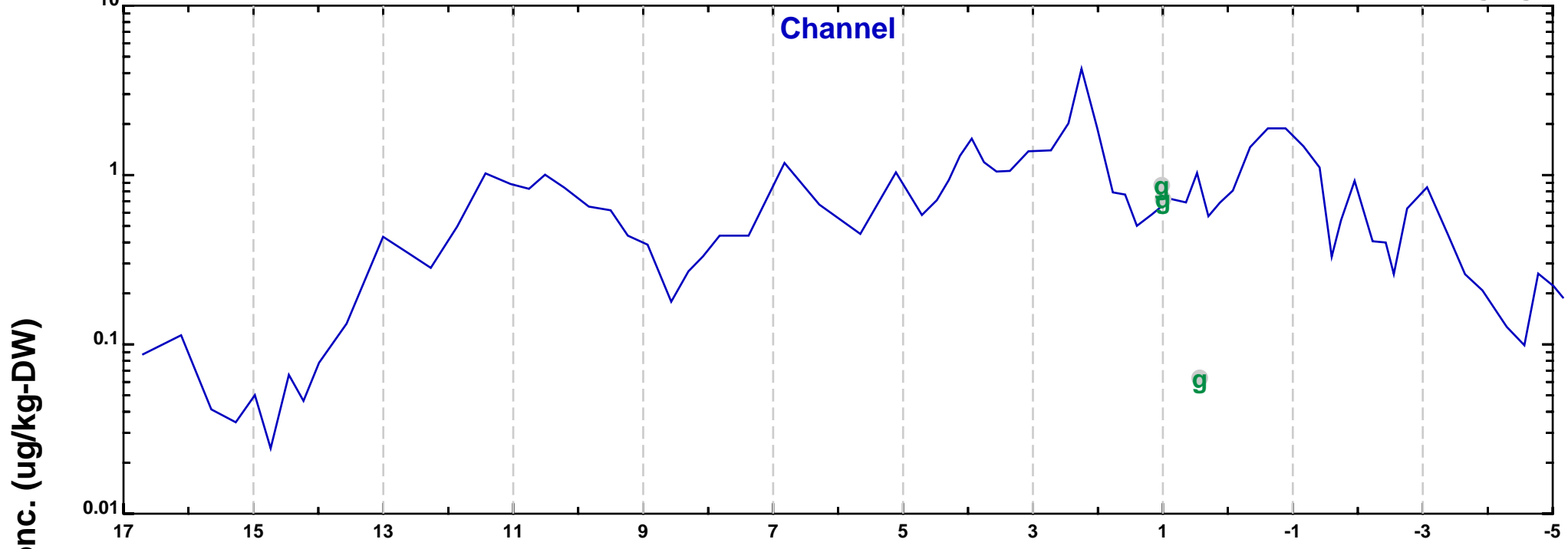
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



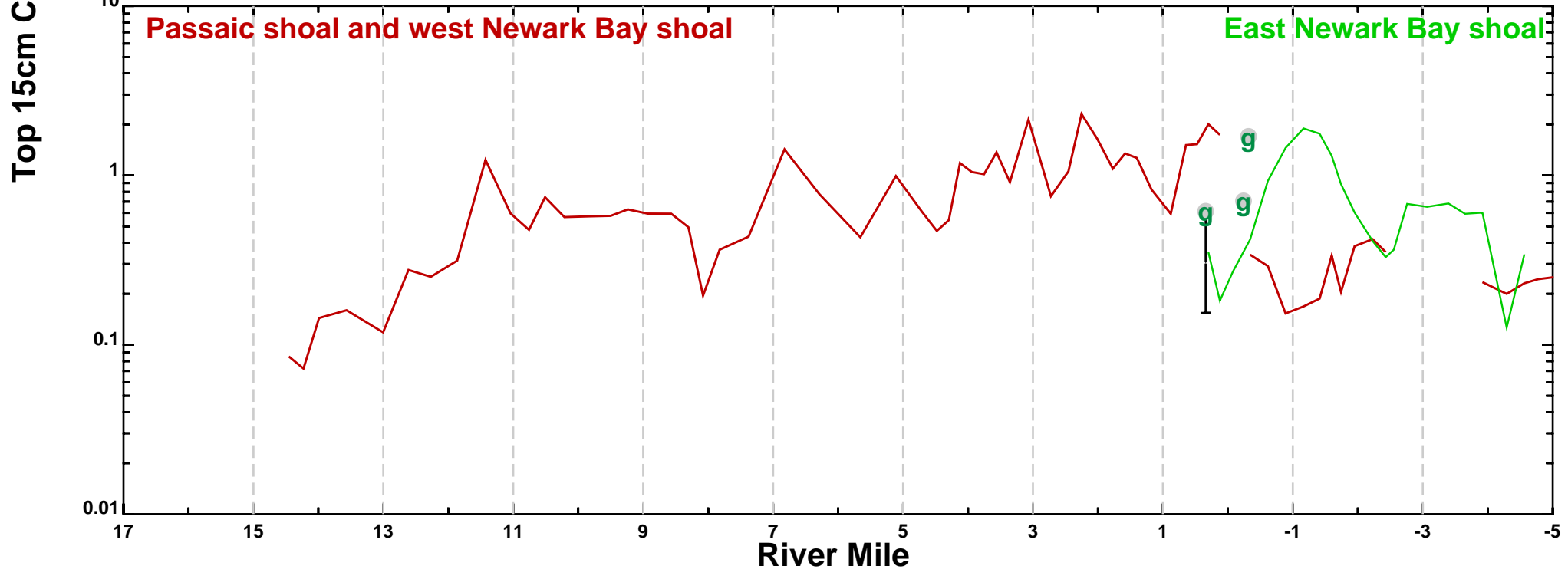
Year =2003.0

OCDFF (ug/kg)



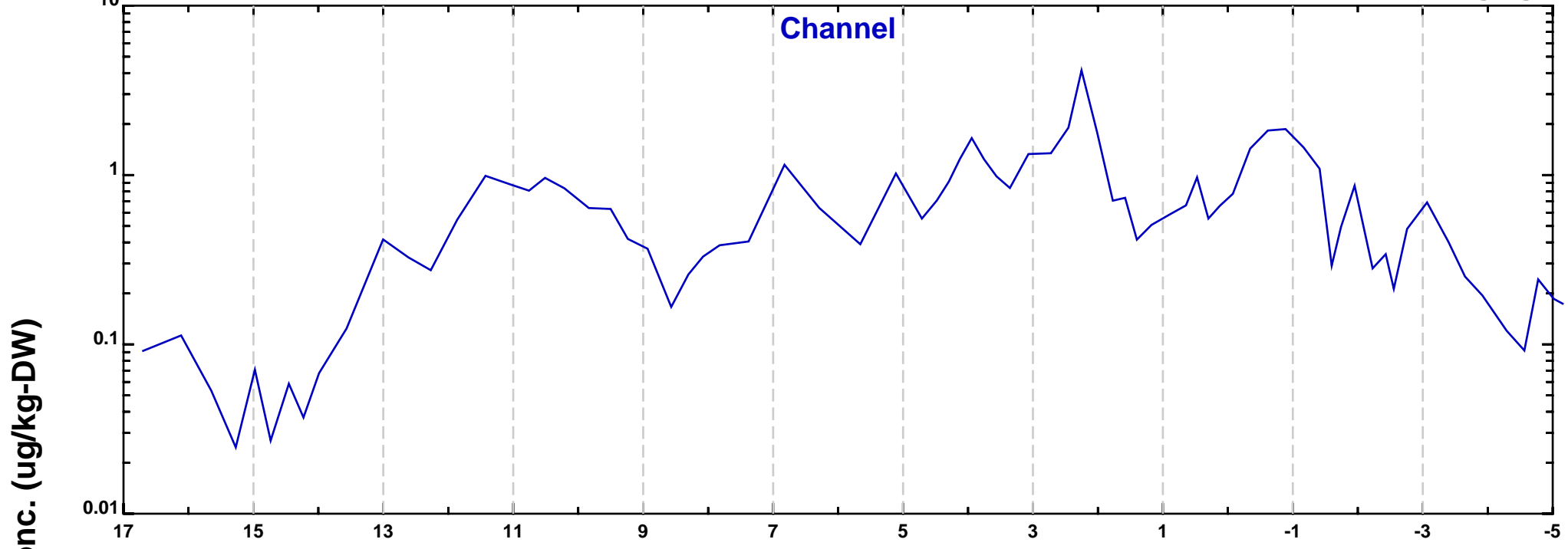
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



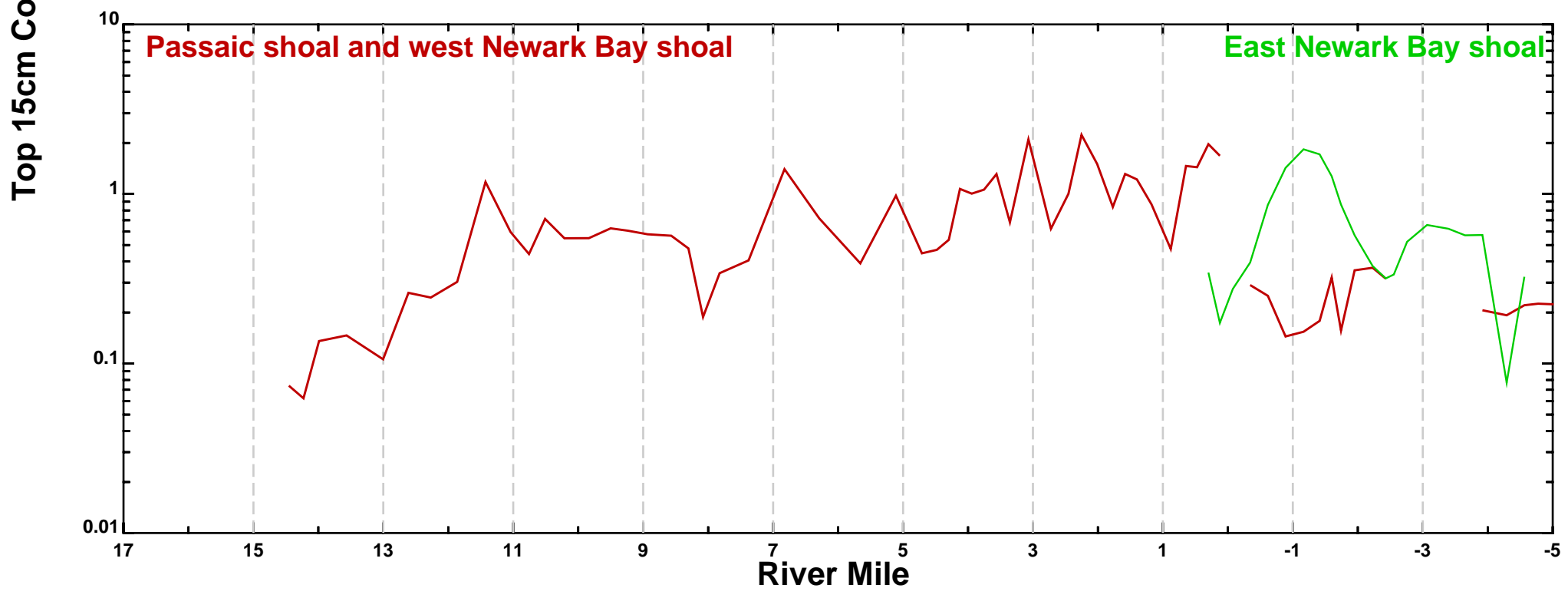
Year =2004.0

OCDFF (ug/kg)

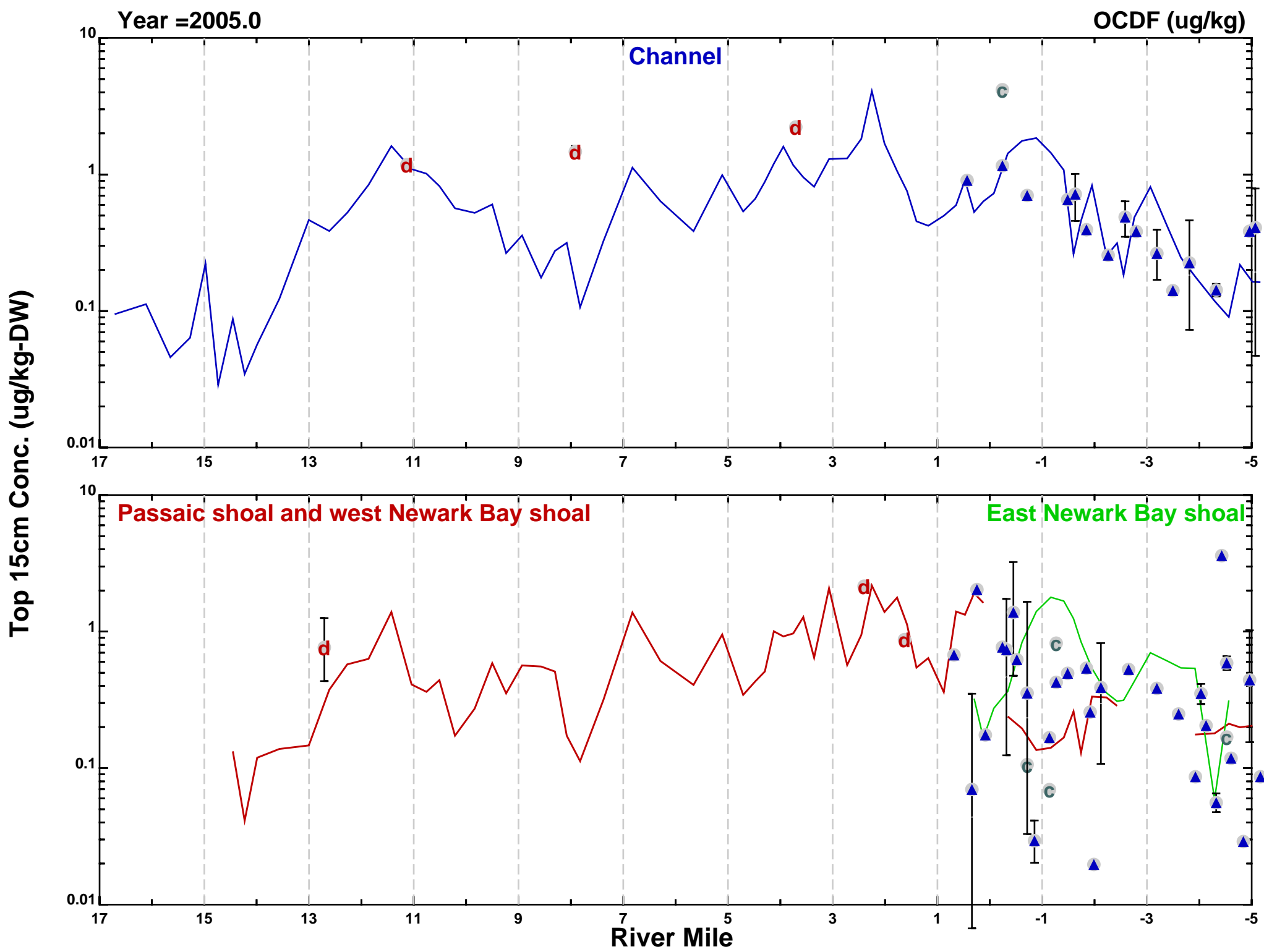


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





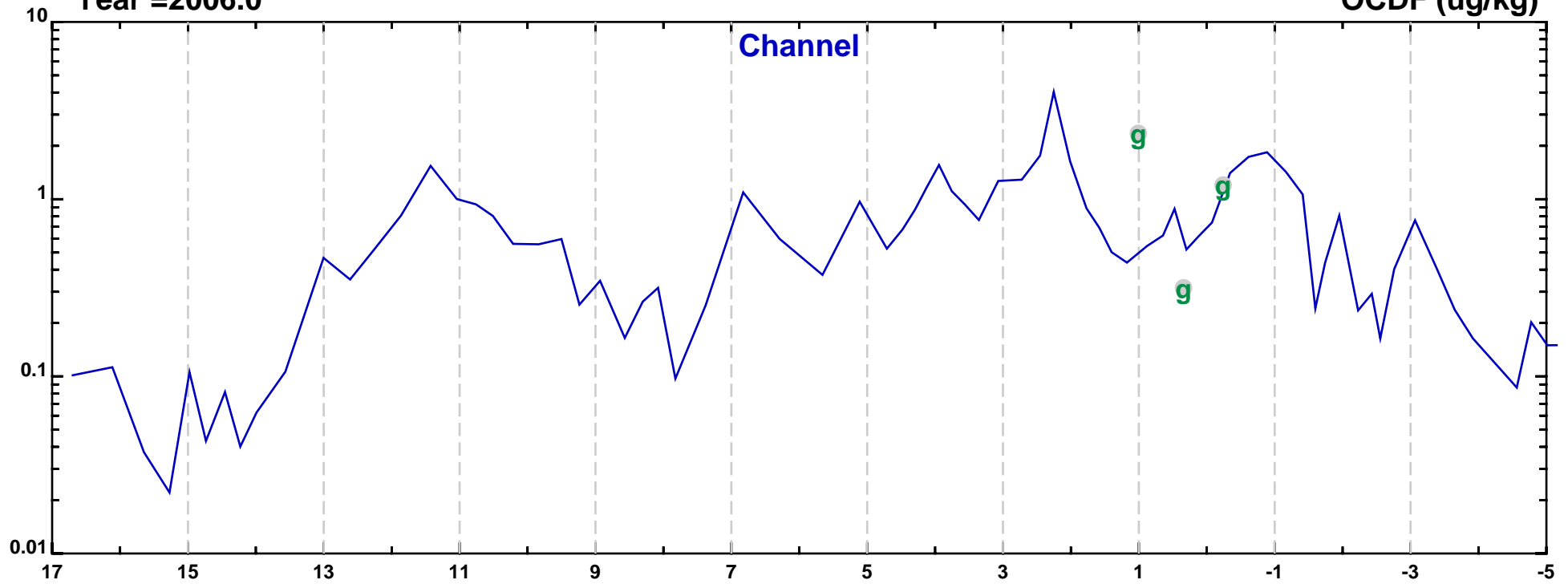


Year =2006.0

OCDFF (ug/kg)

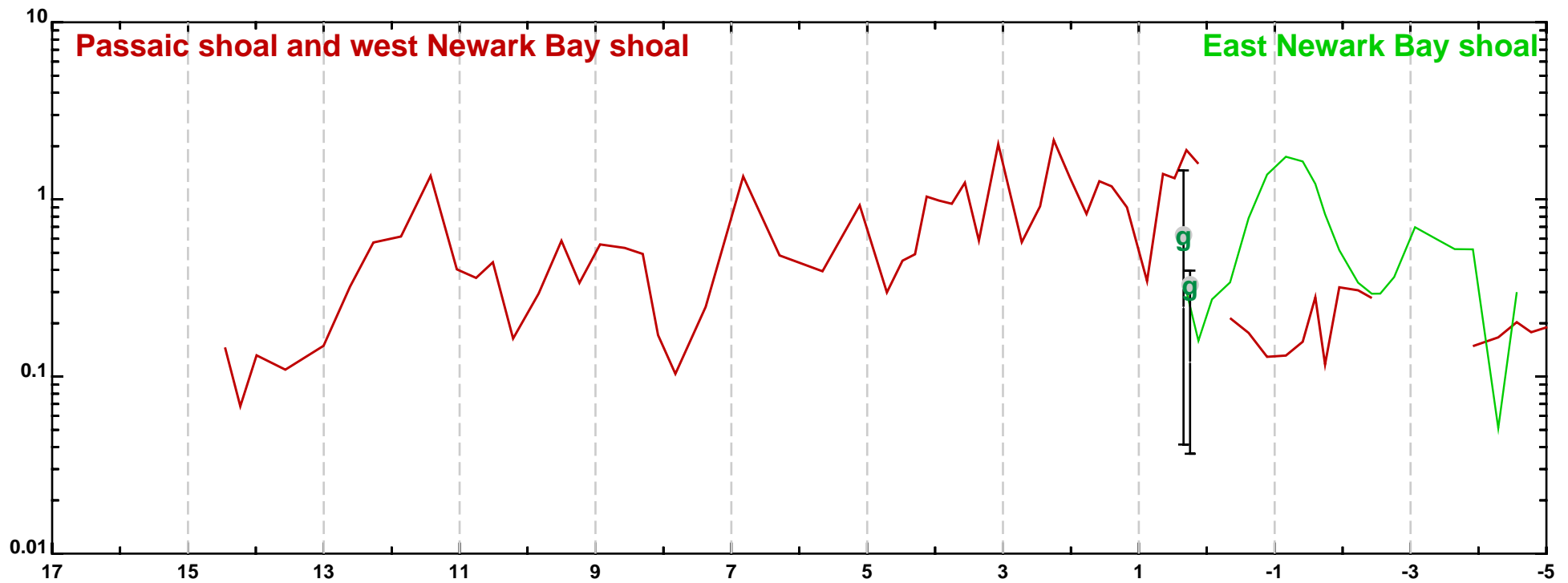
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

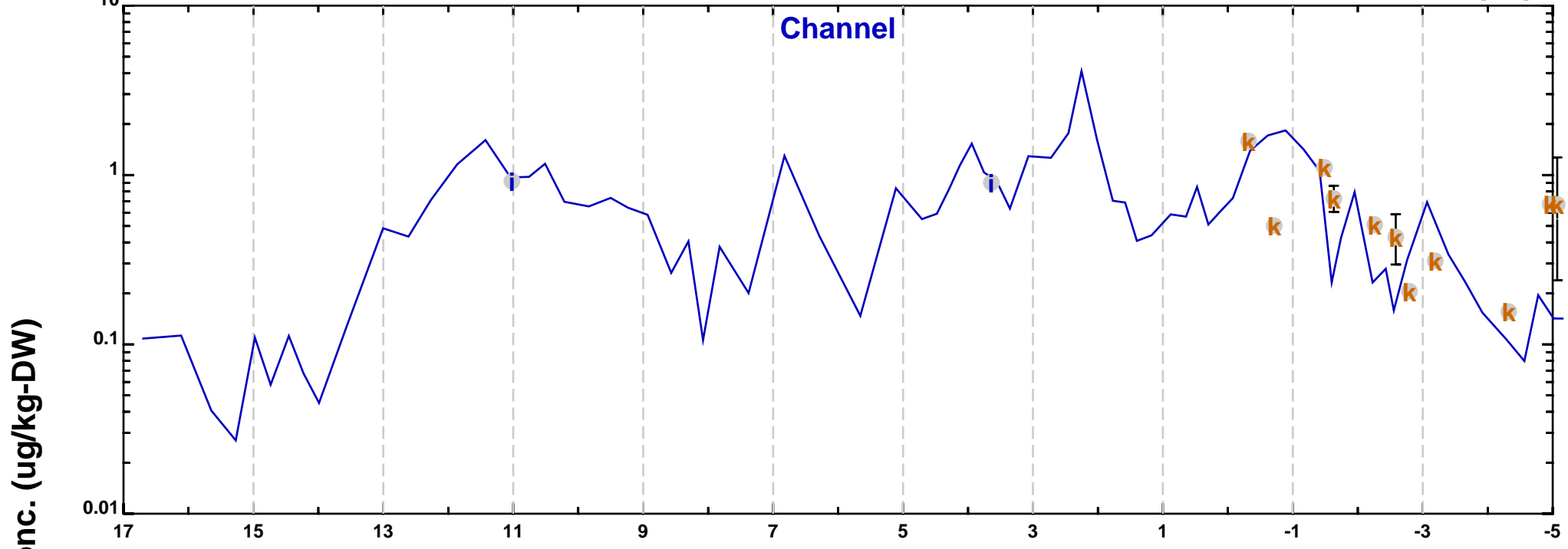
East Newark Bay shoal



River Mile

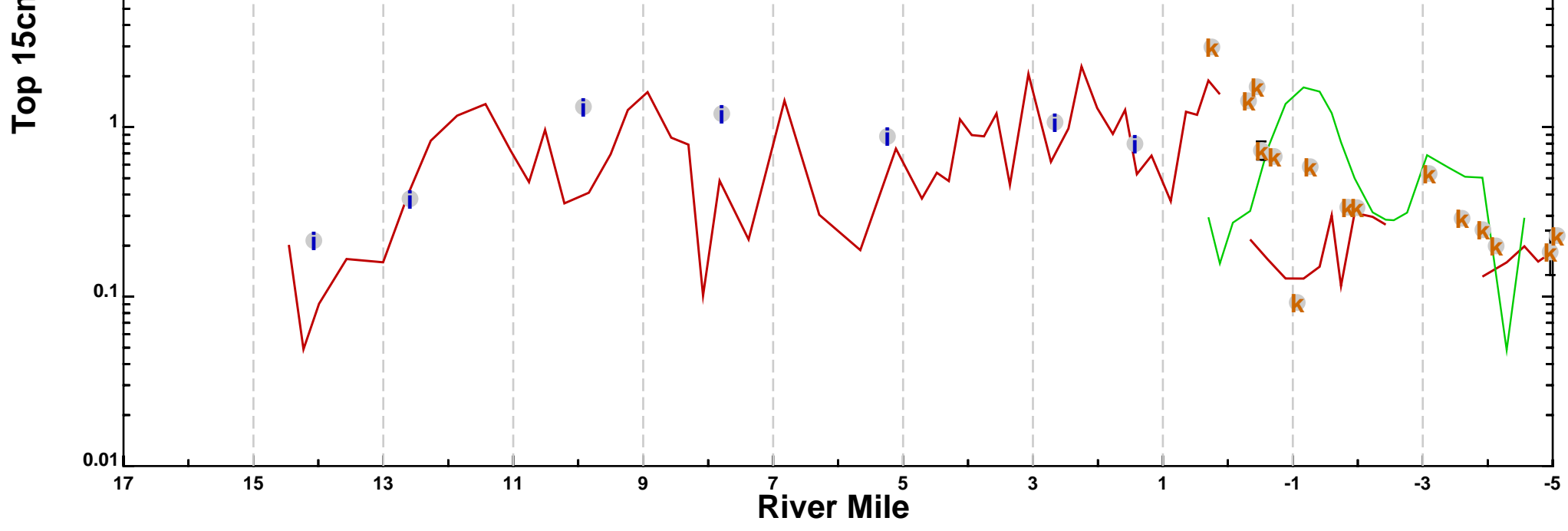
Year =2007.0

OCDFF (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

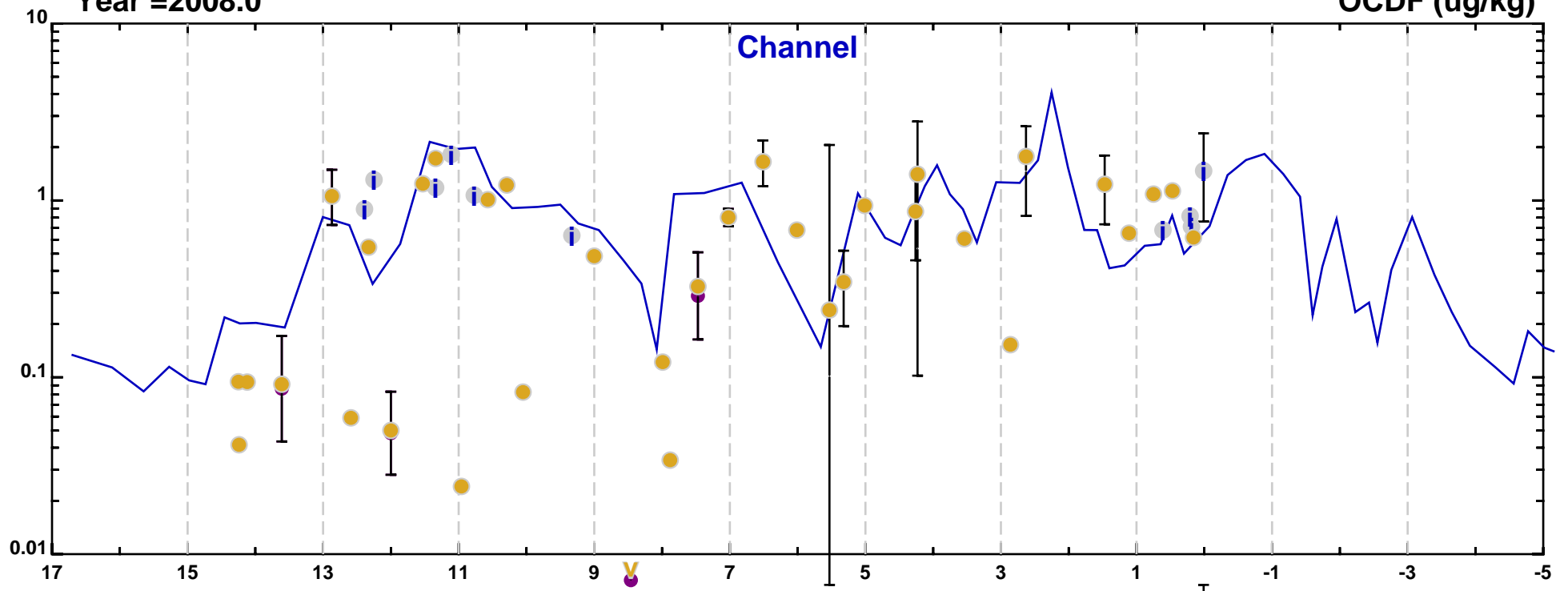


Year =2008.0

OCDFF (ug/kg)

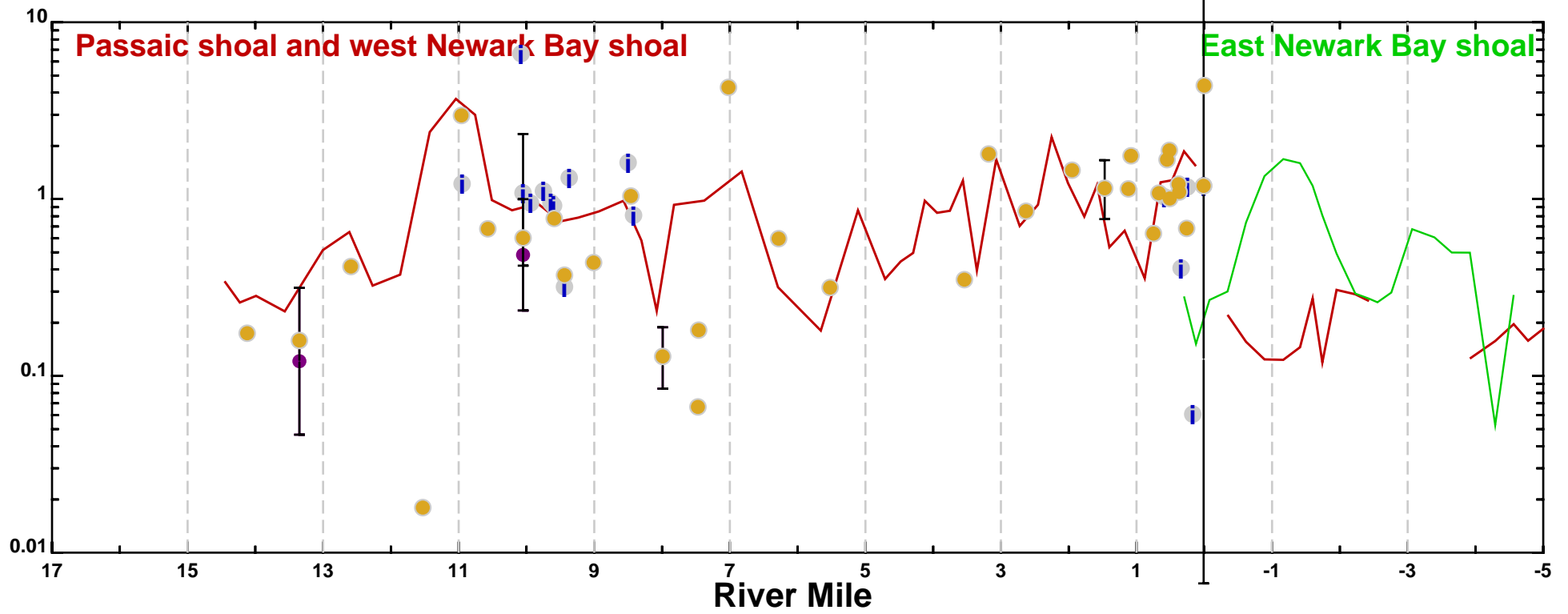
Channel

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

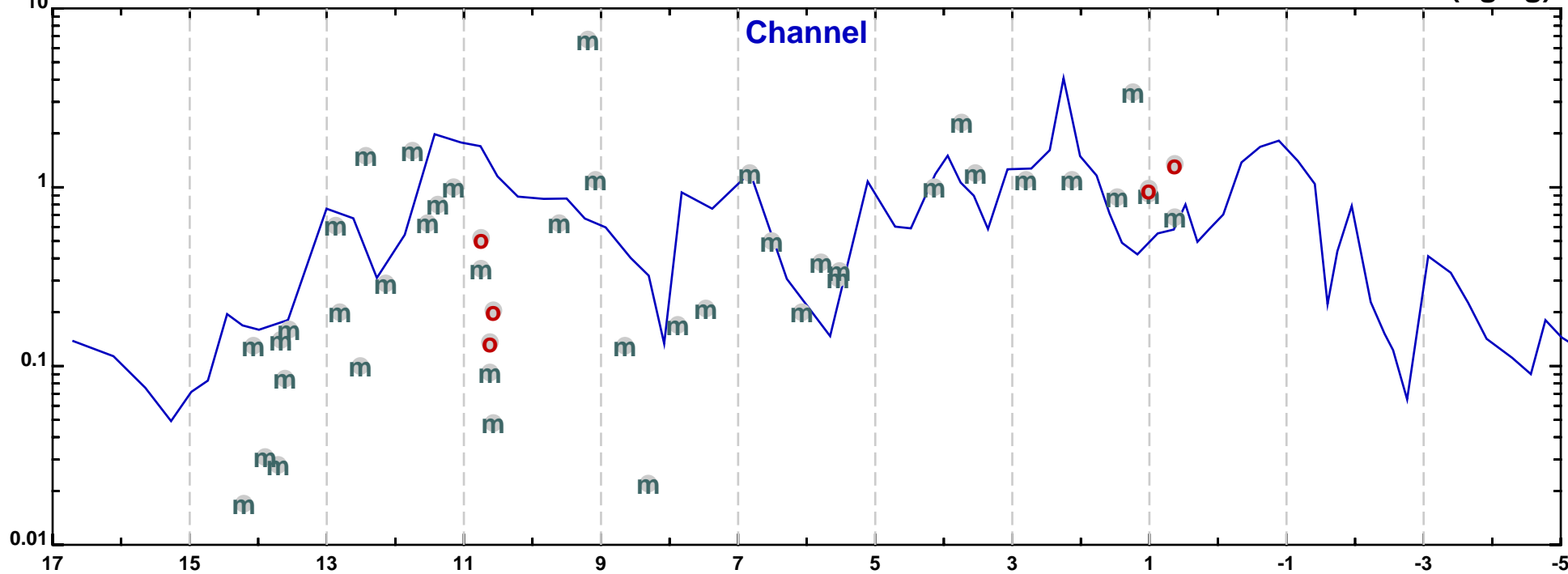


Year =2009.0

OCDFF (ug/kg)

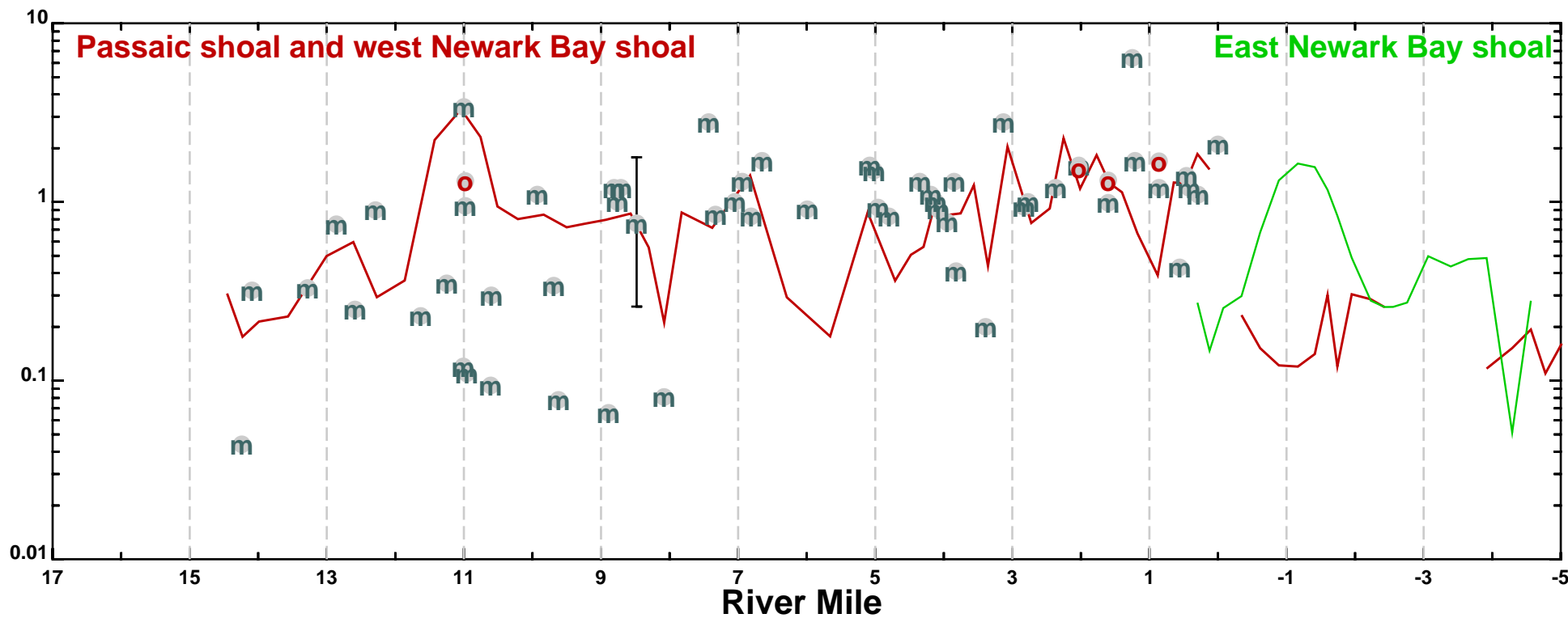
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

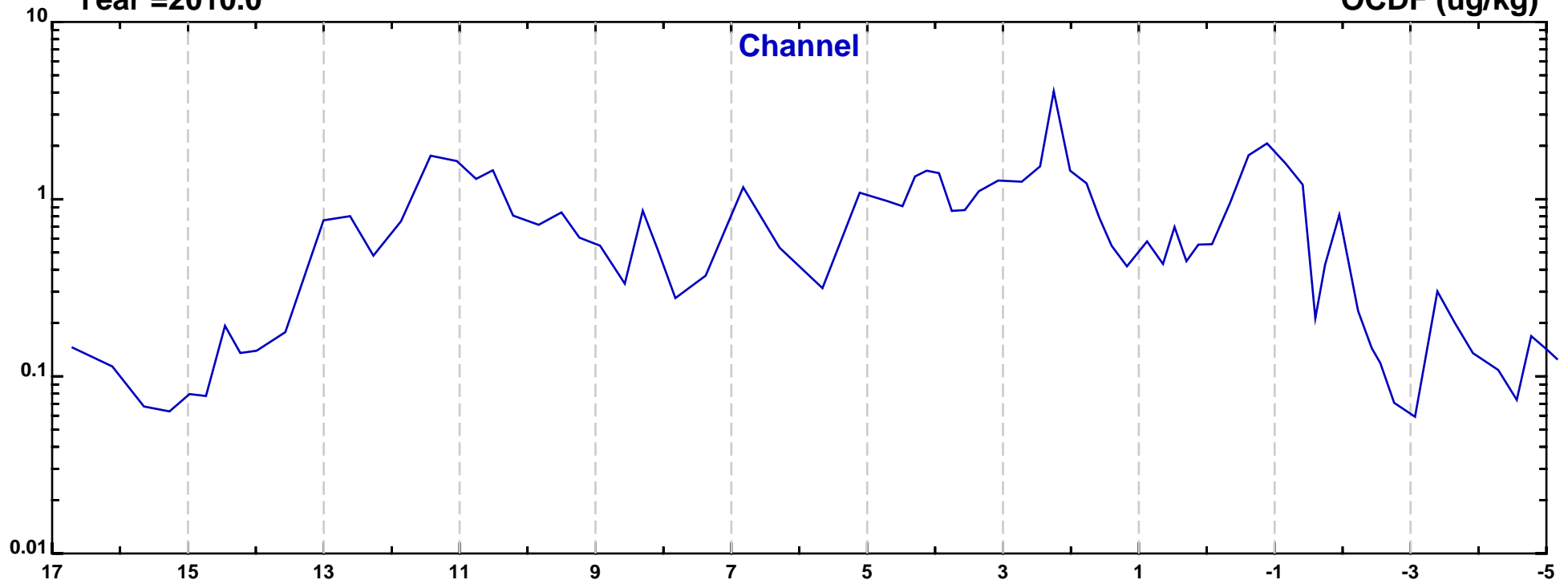


Year =2010.0

OCDFF (ug/kg)

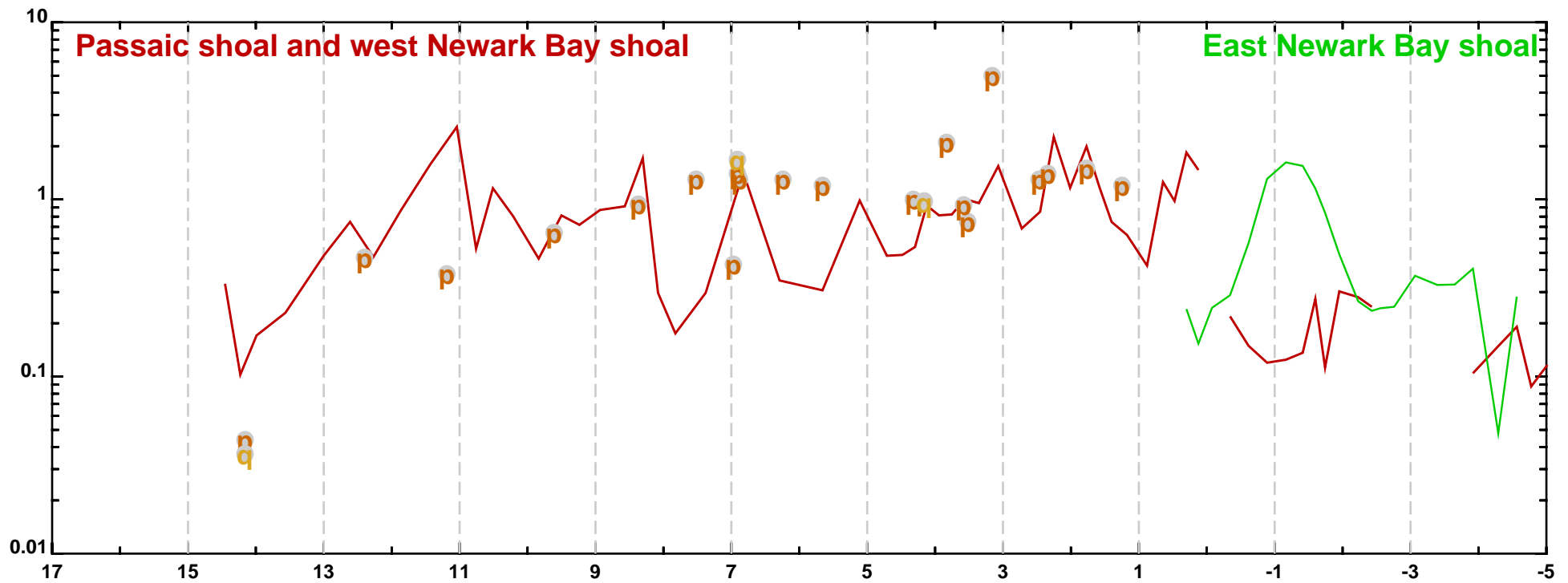
Top 15cm Conc. (ug/kg-DW)

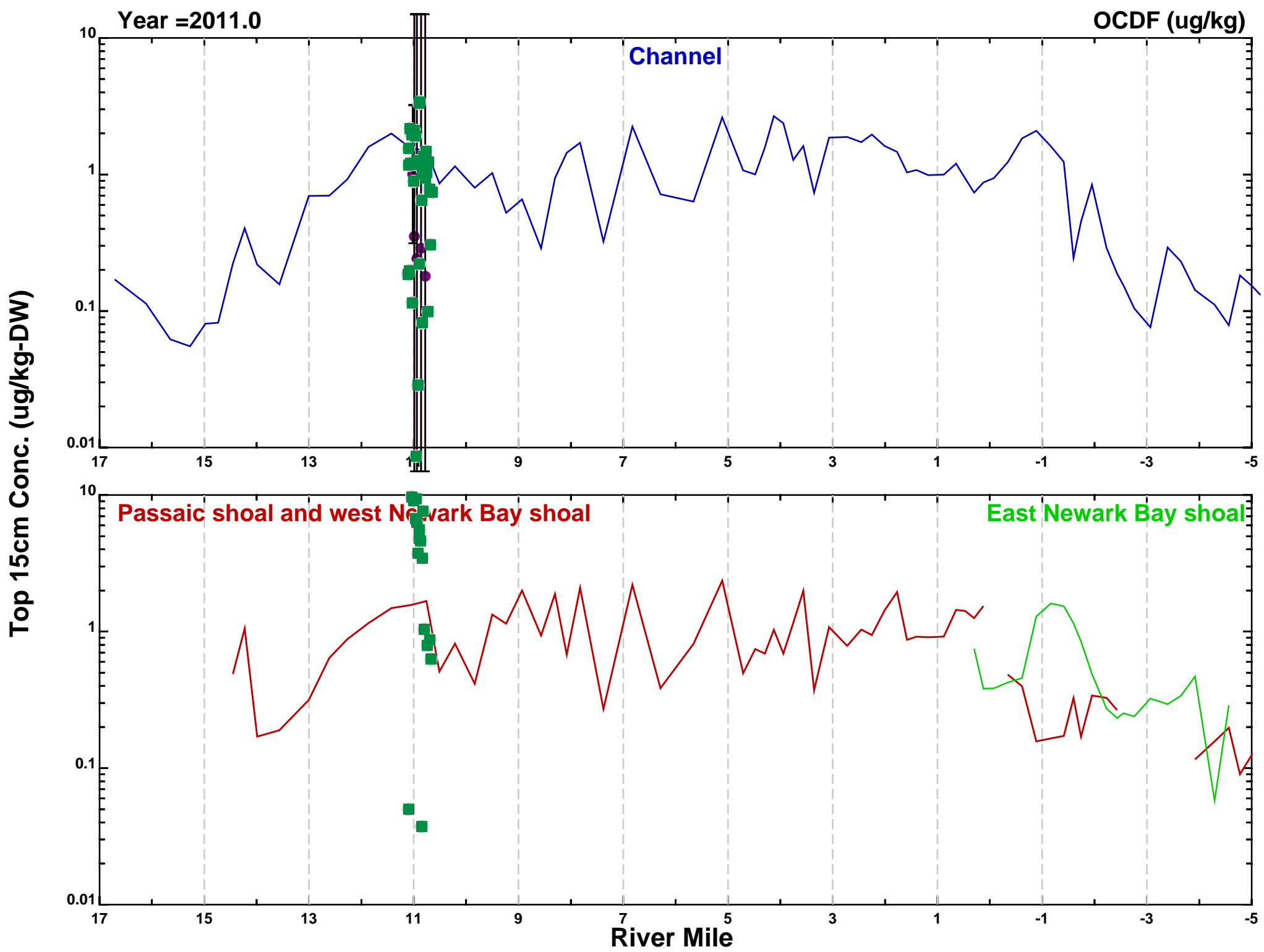
Channel

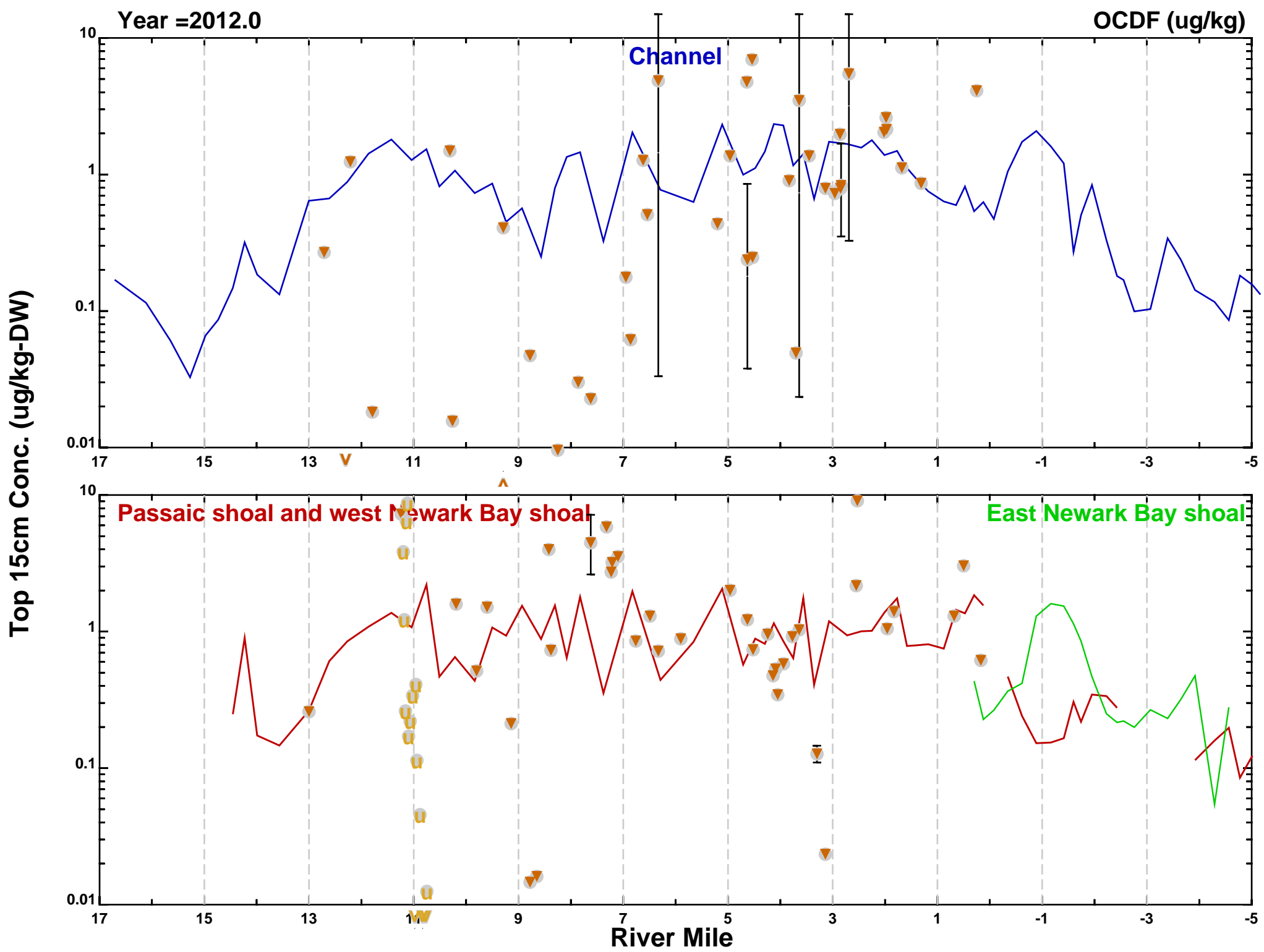


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



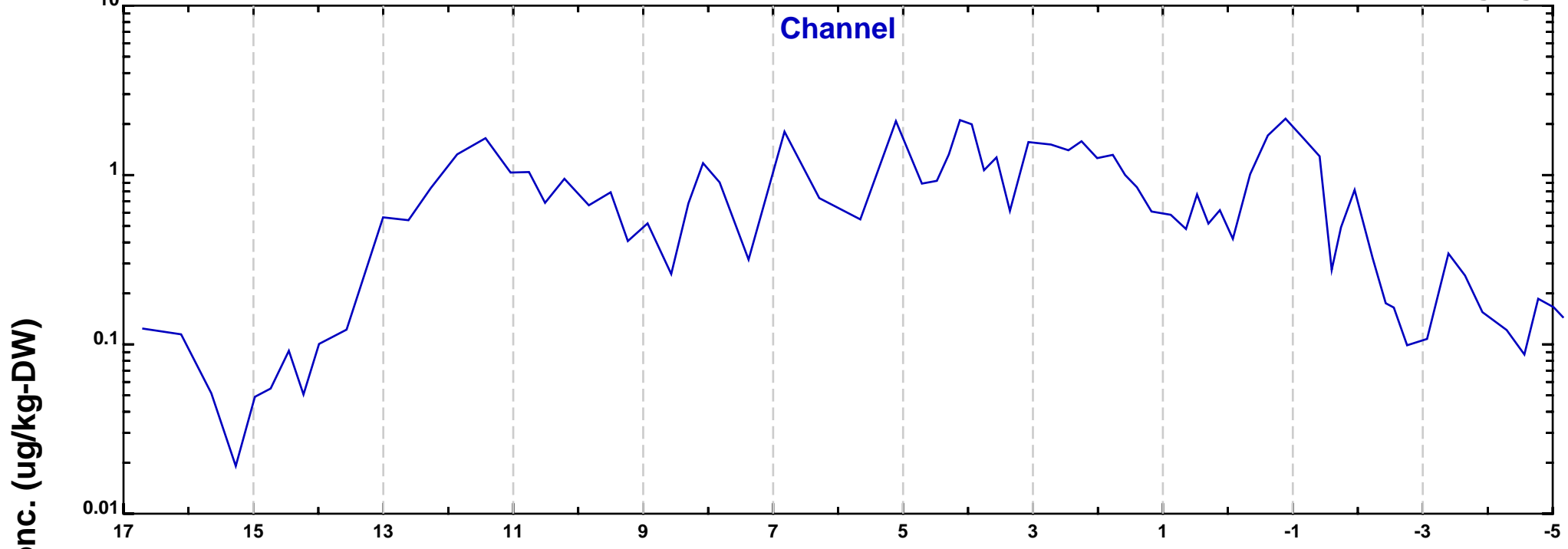






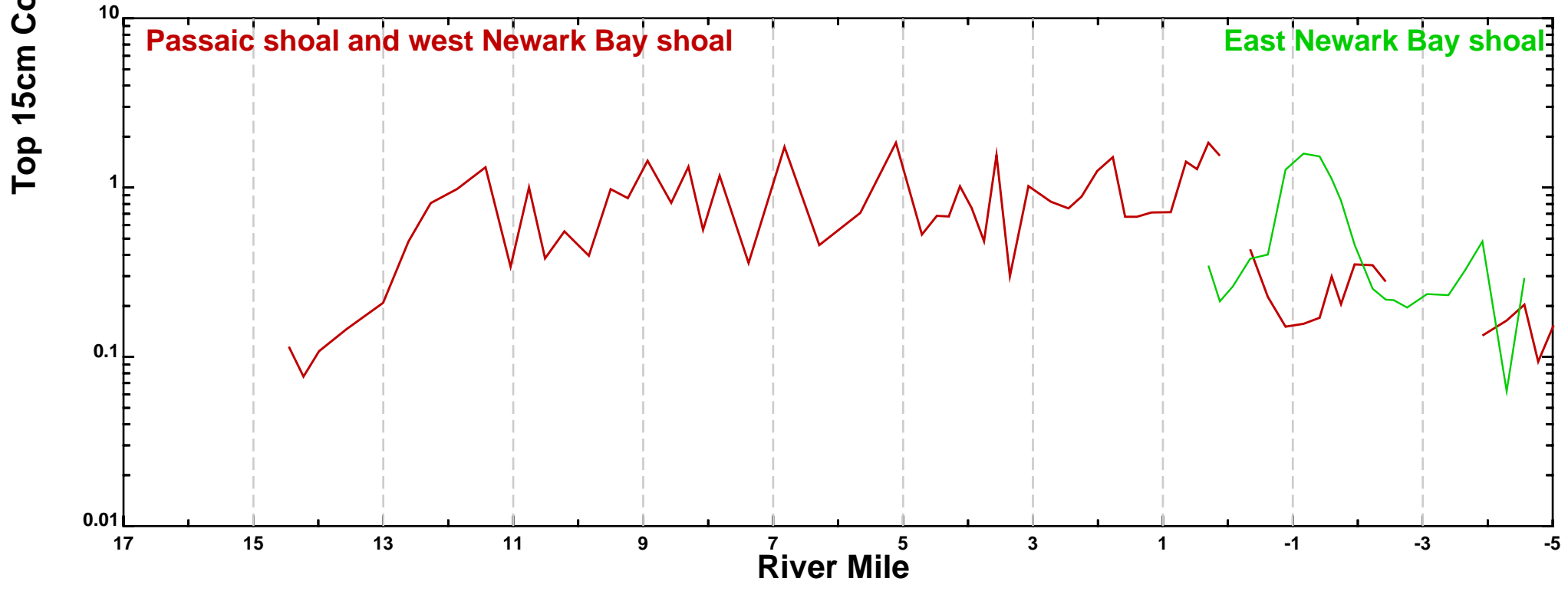
Year =2013.0

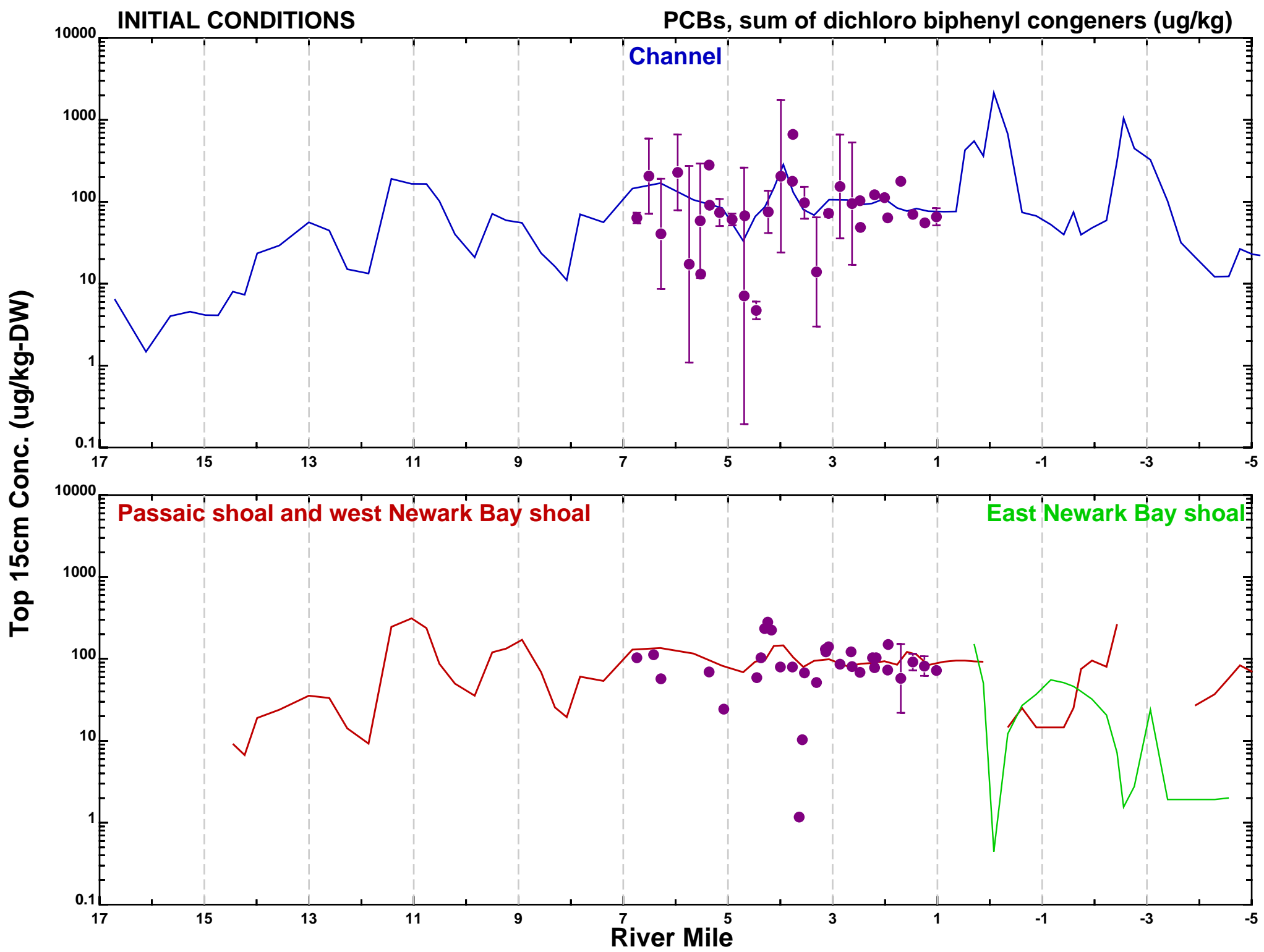
OCDFF (ug/kg)



Passaic shoal and west Newark Bay shoal

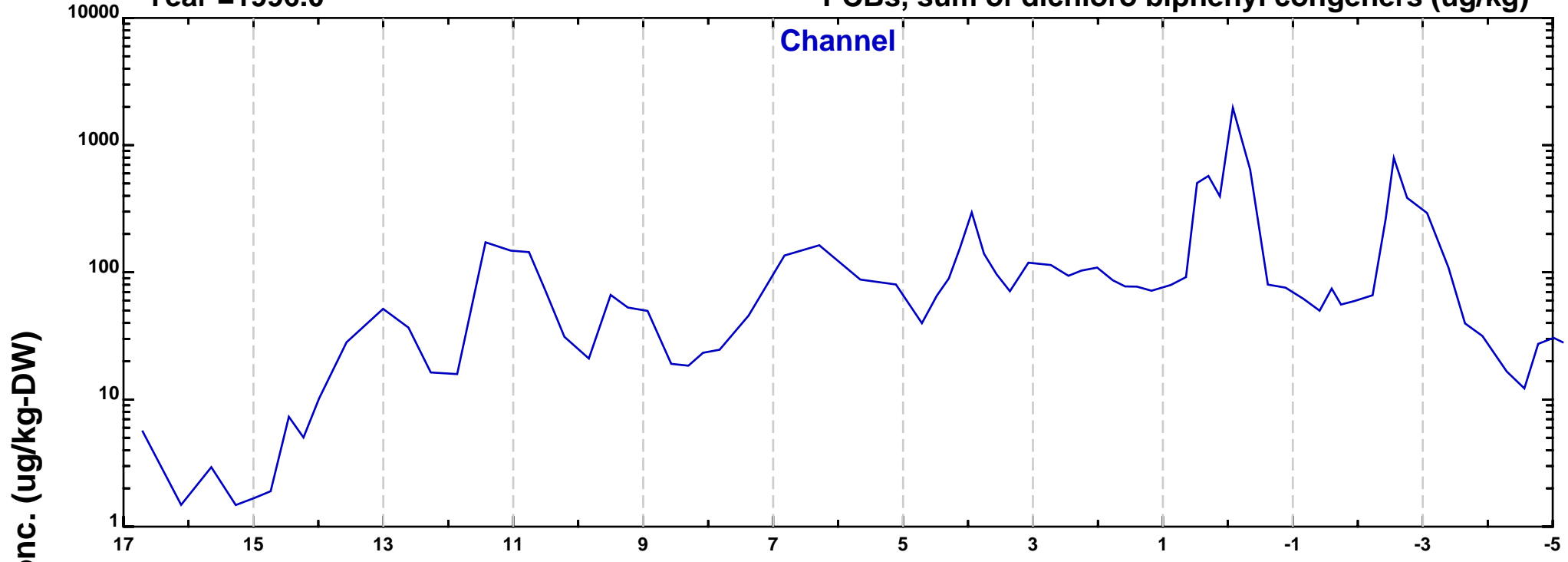
East Newark Bay shoal





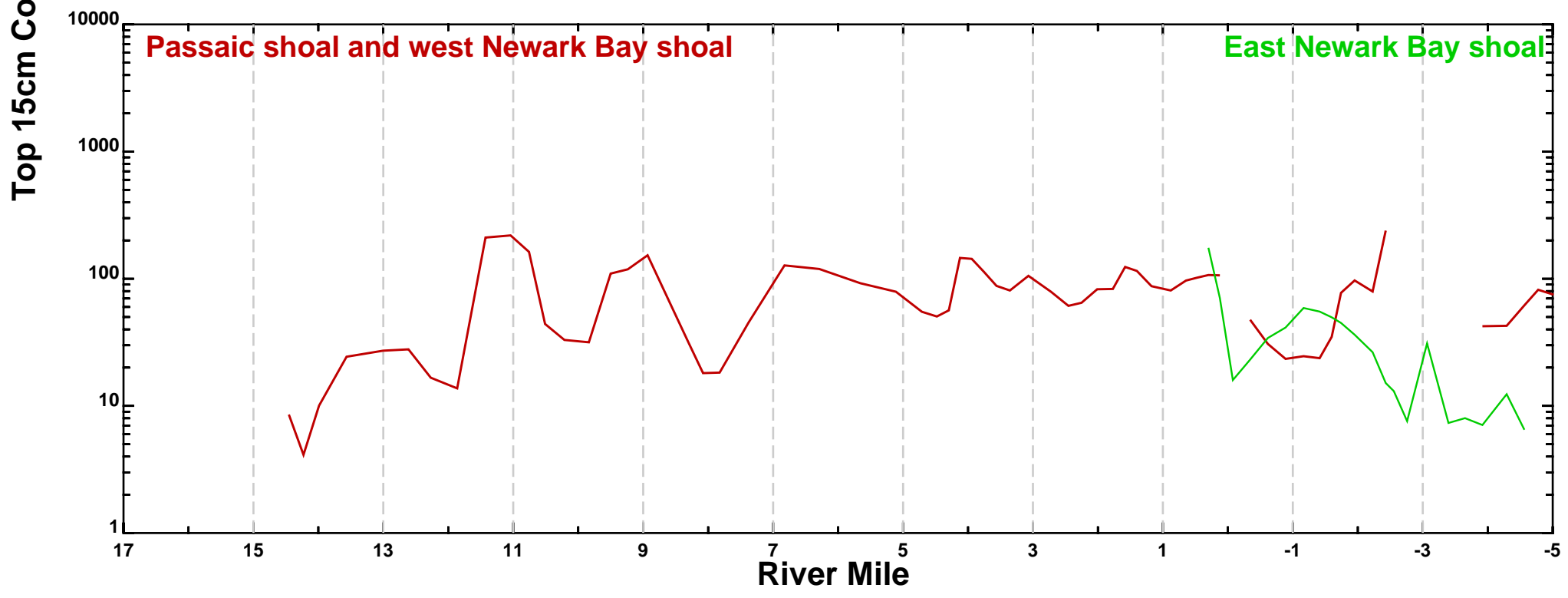
Year = 1996.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



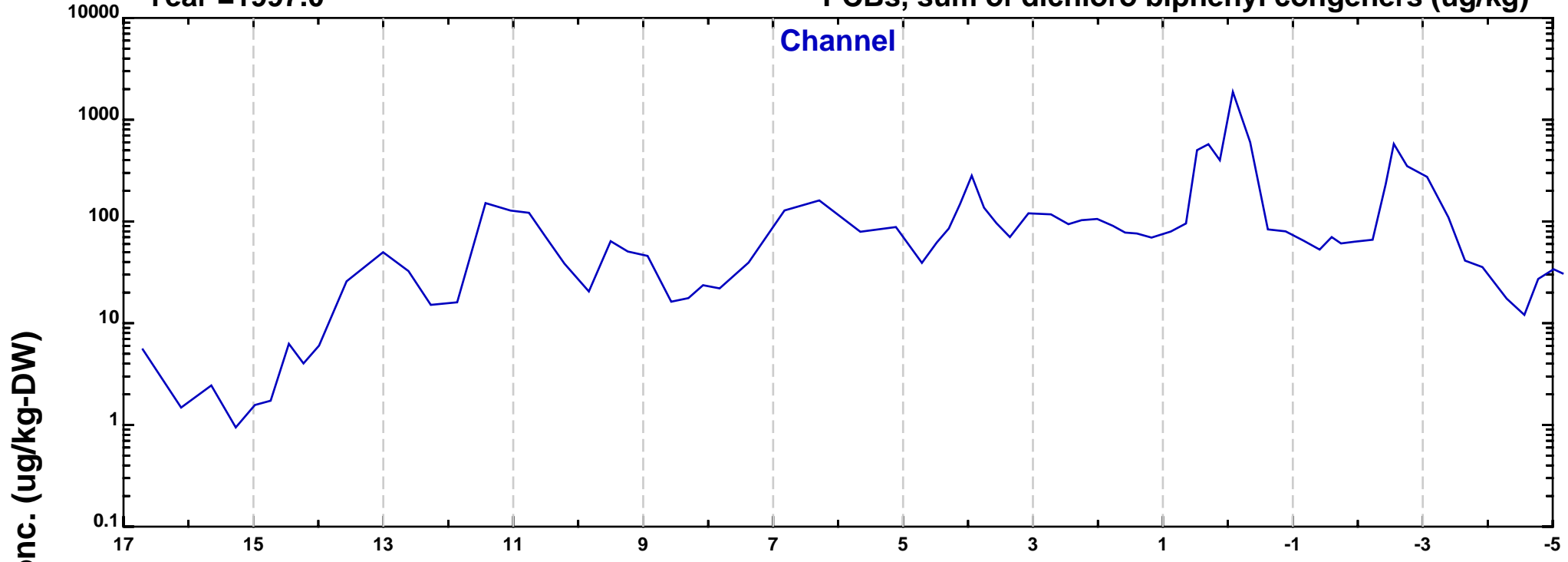
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



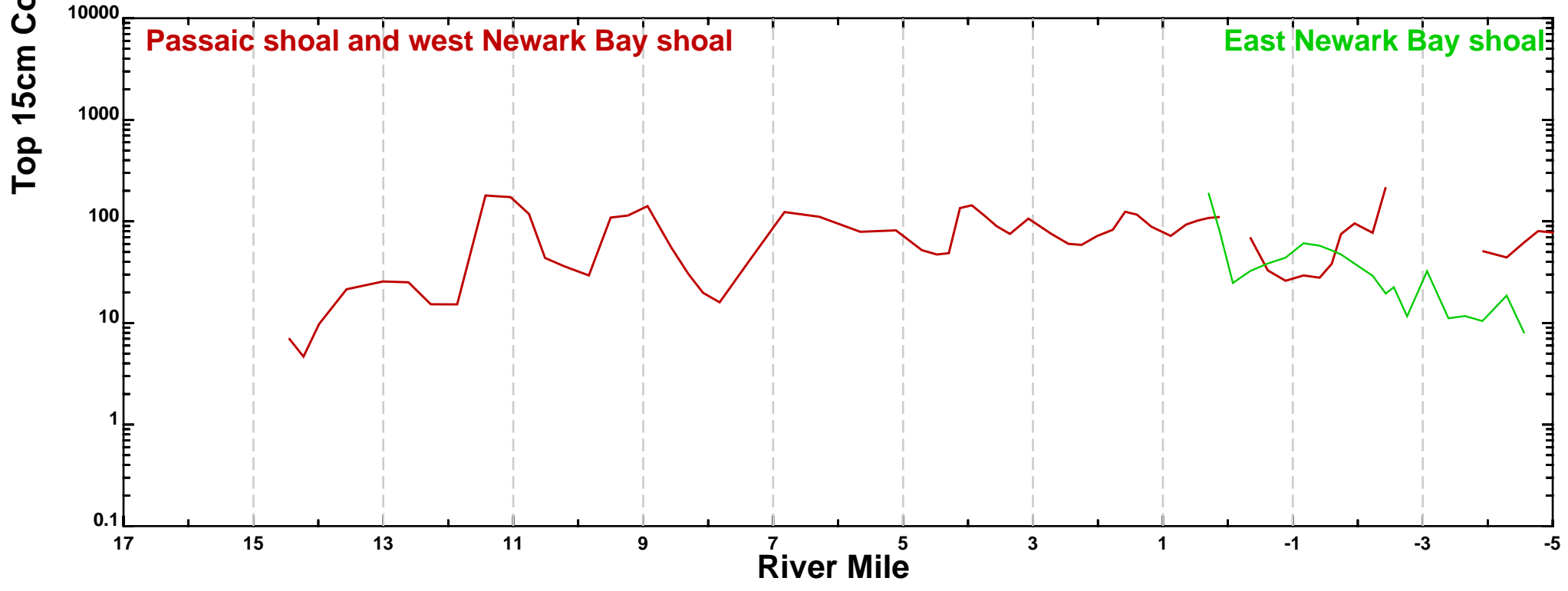
Year = 1997.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



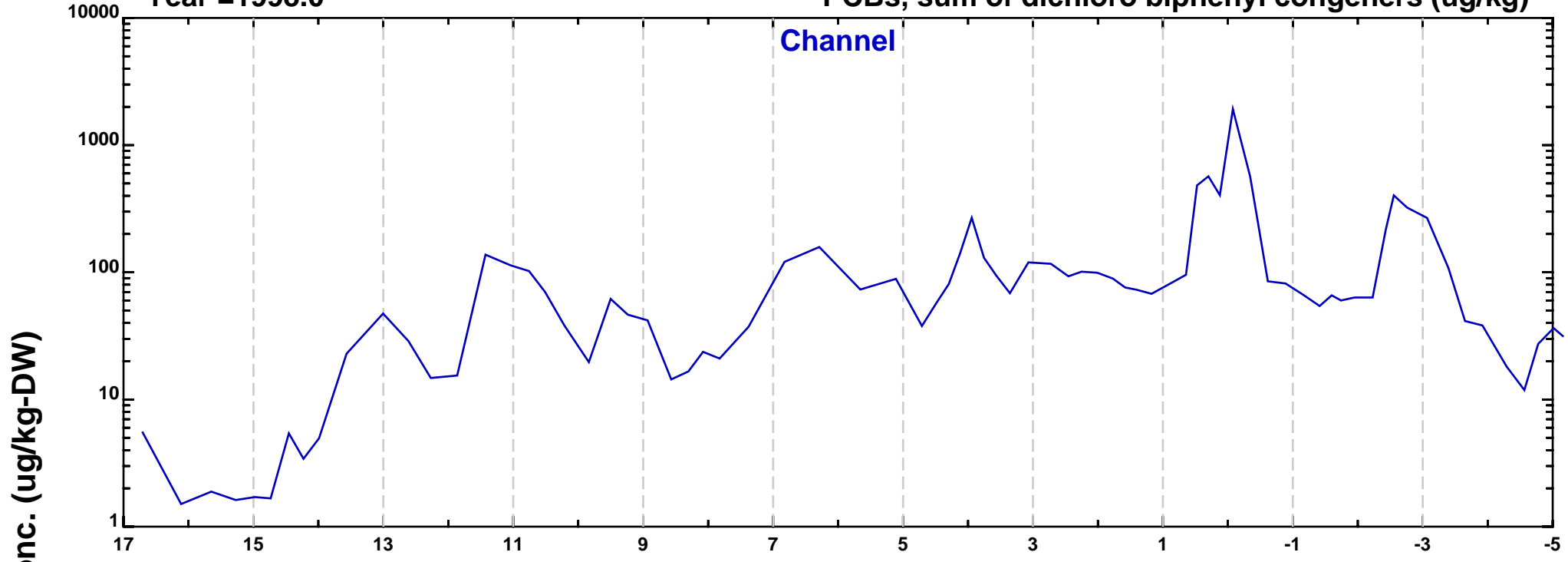
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



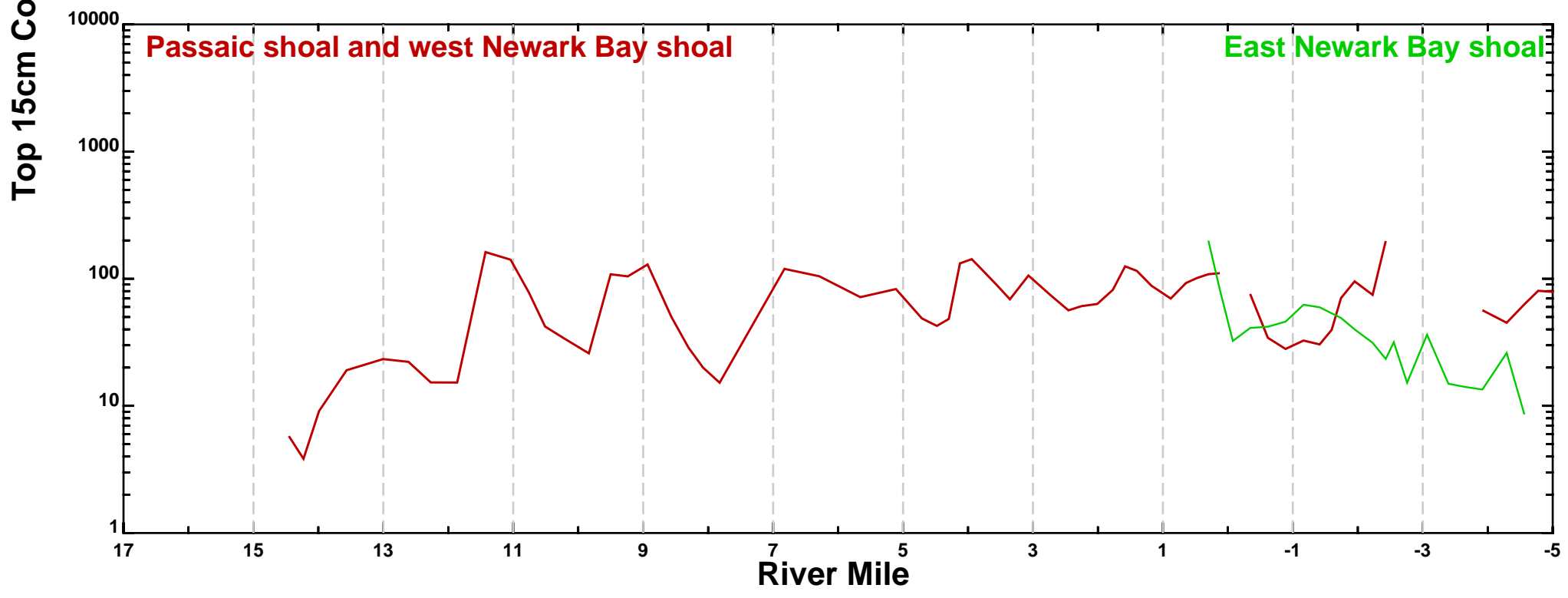
Year = 1998.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



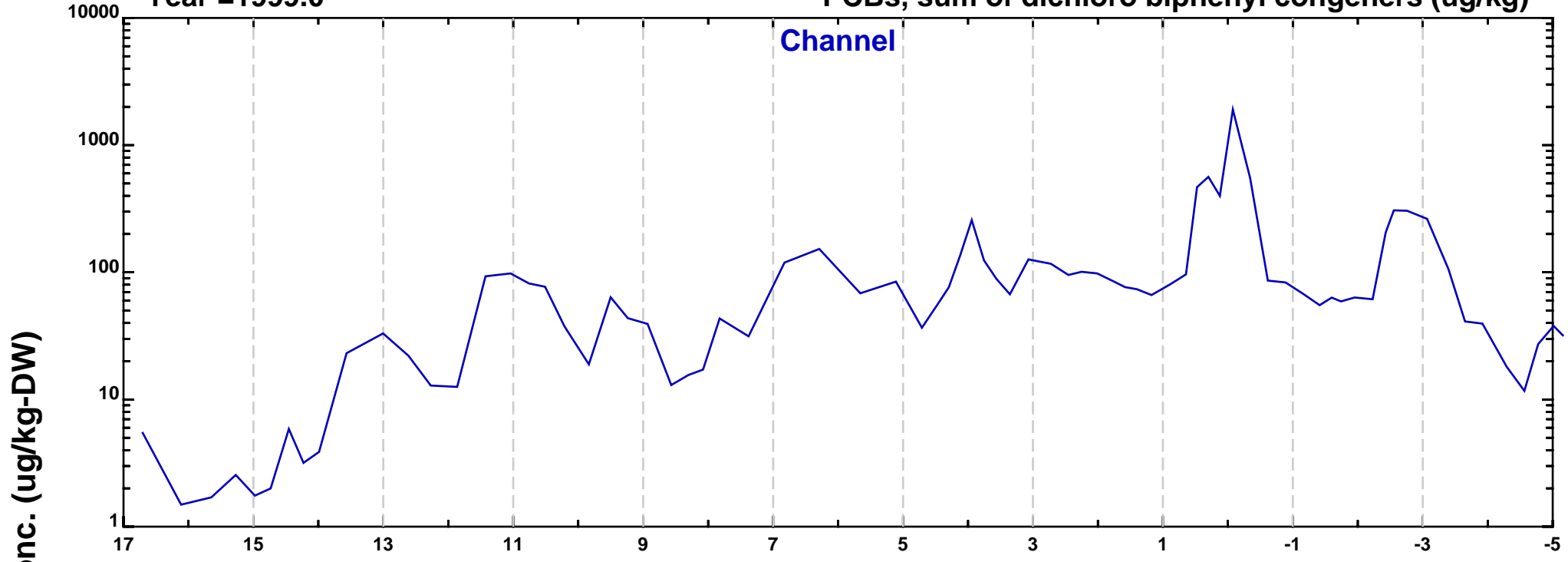
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



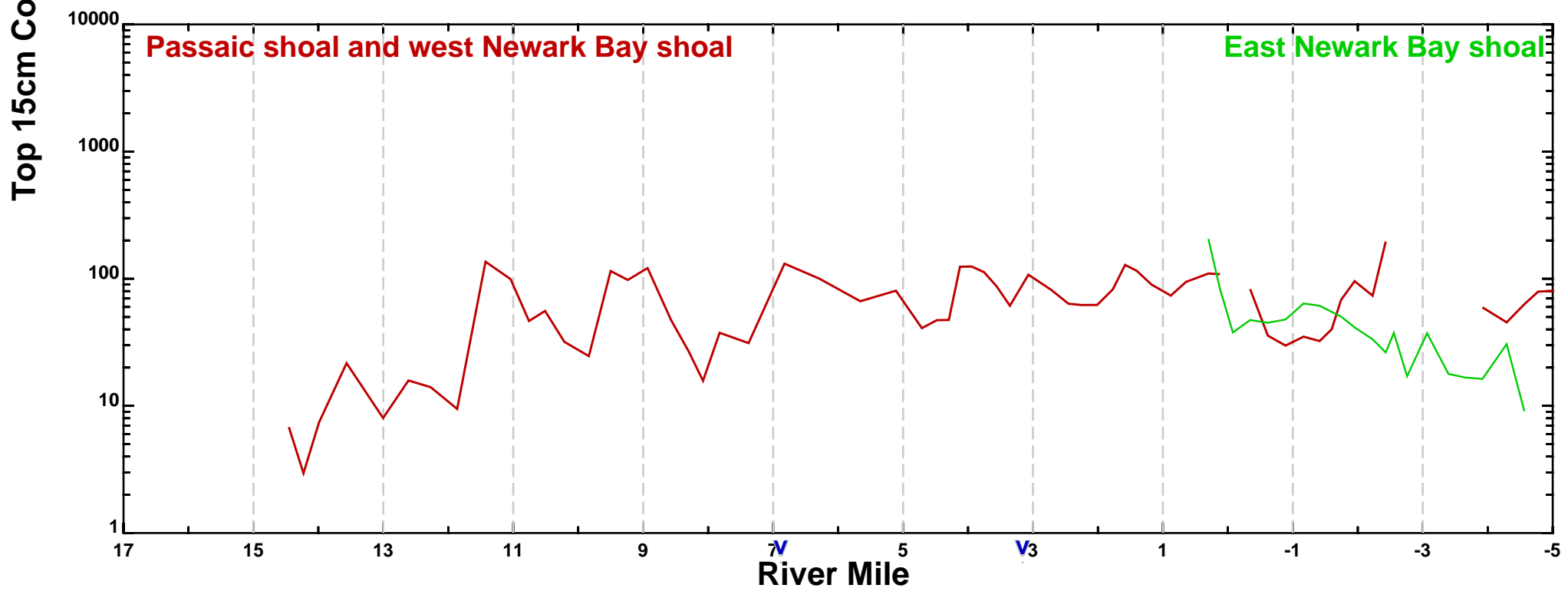
Year = 1999.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



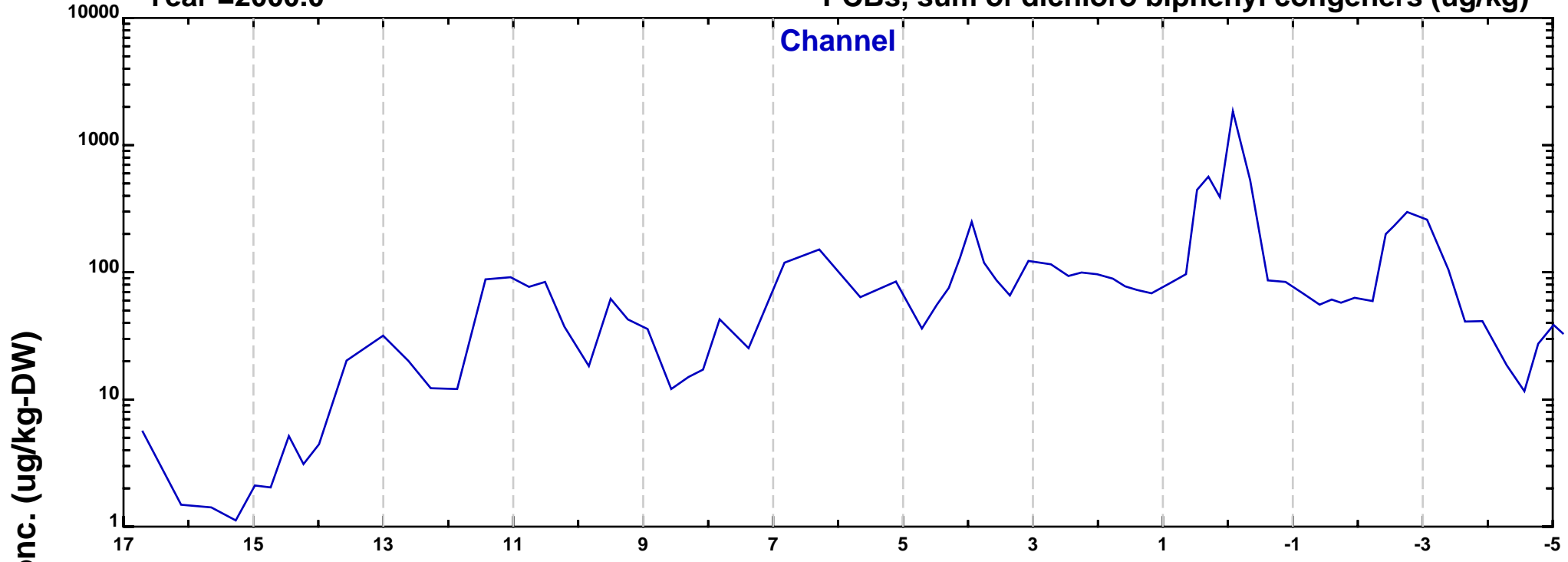
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



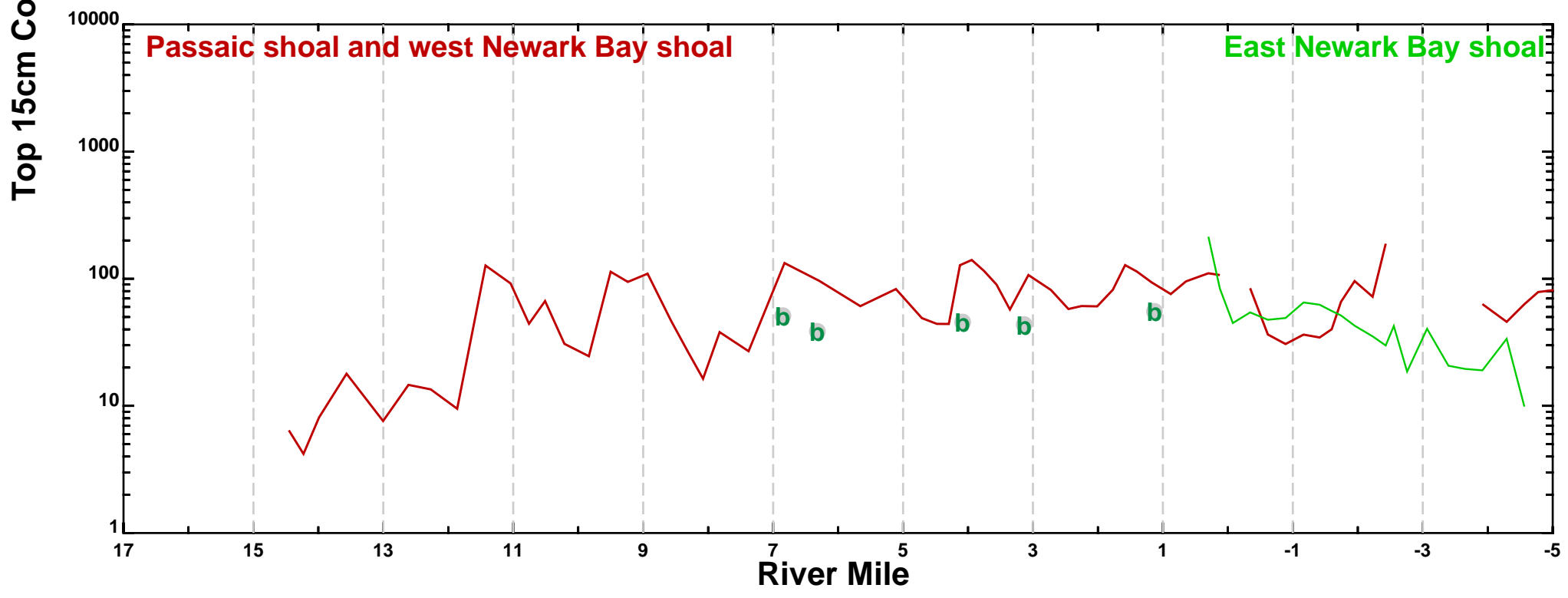
Year =2000.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



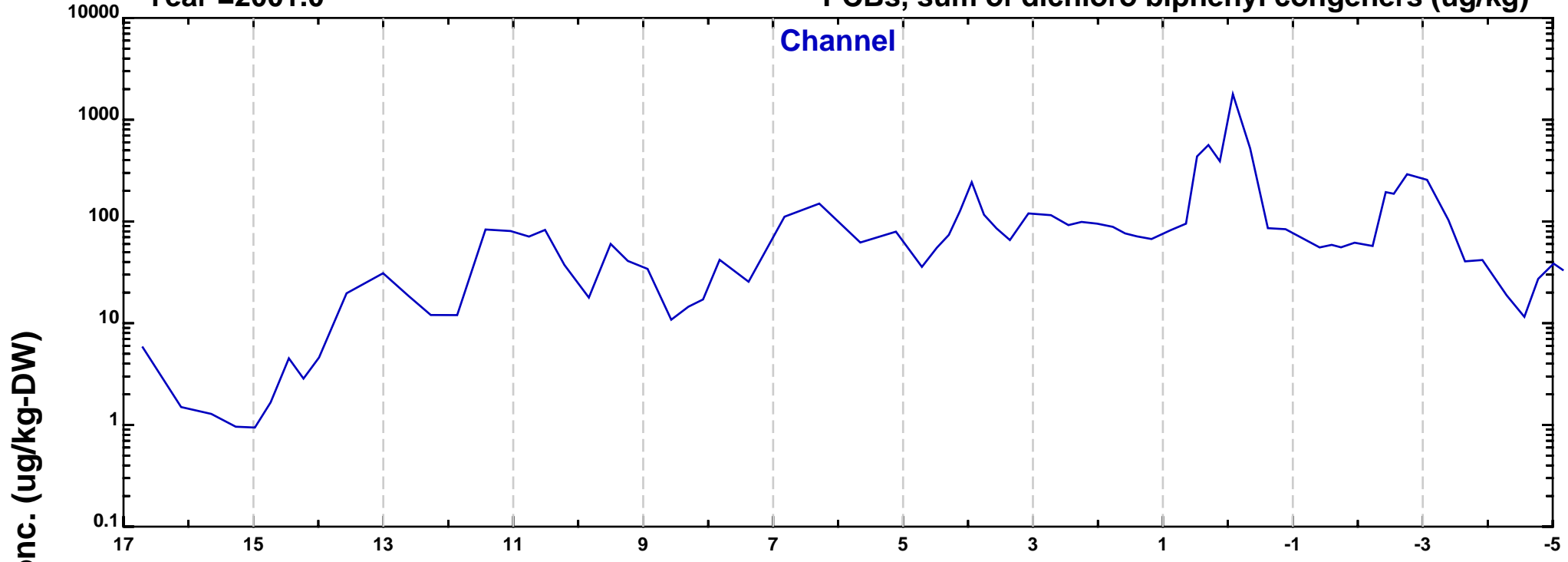
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



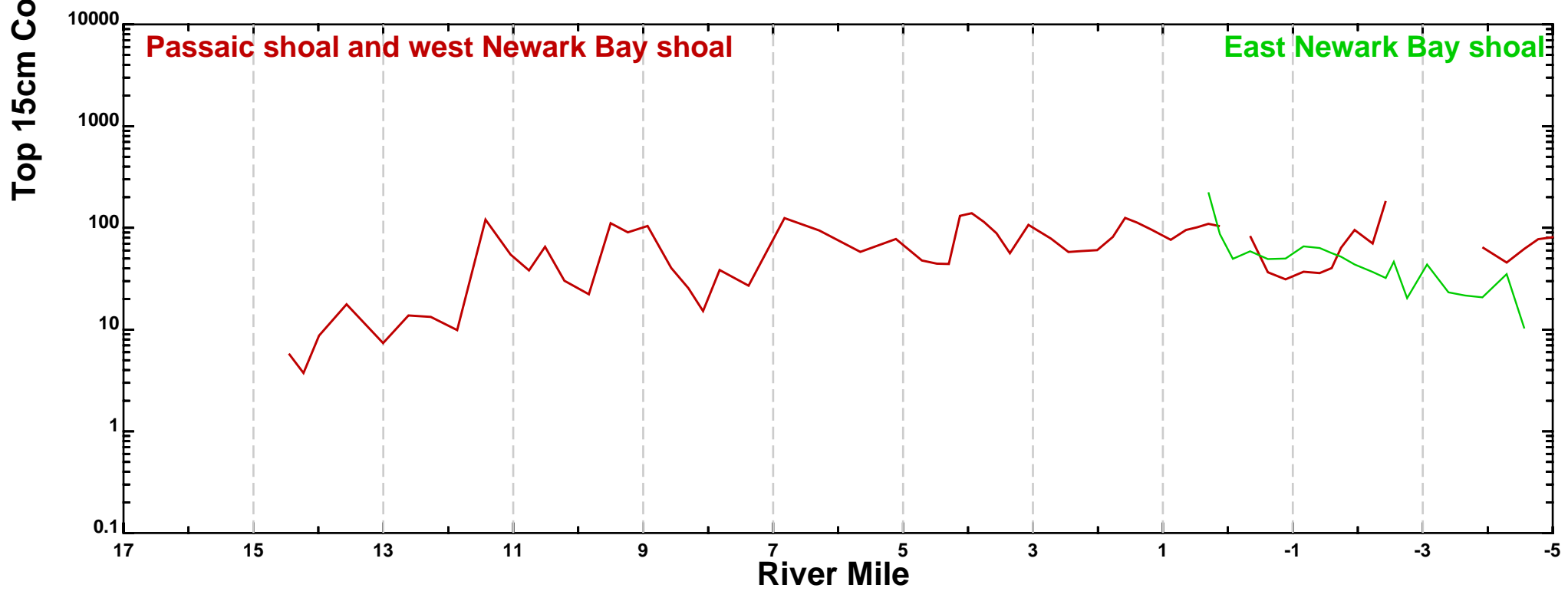
Year =2001.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

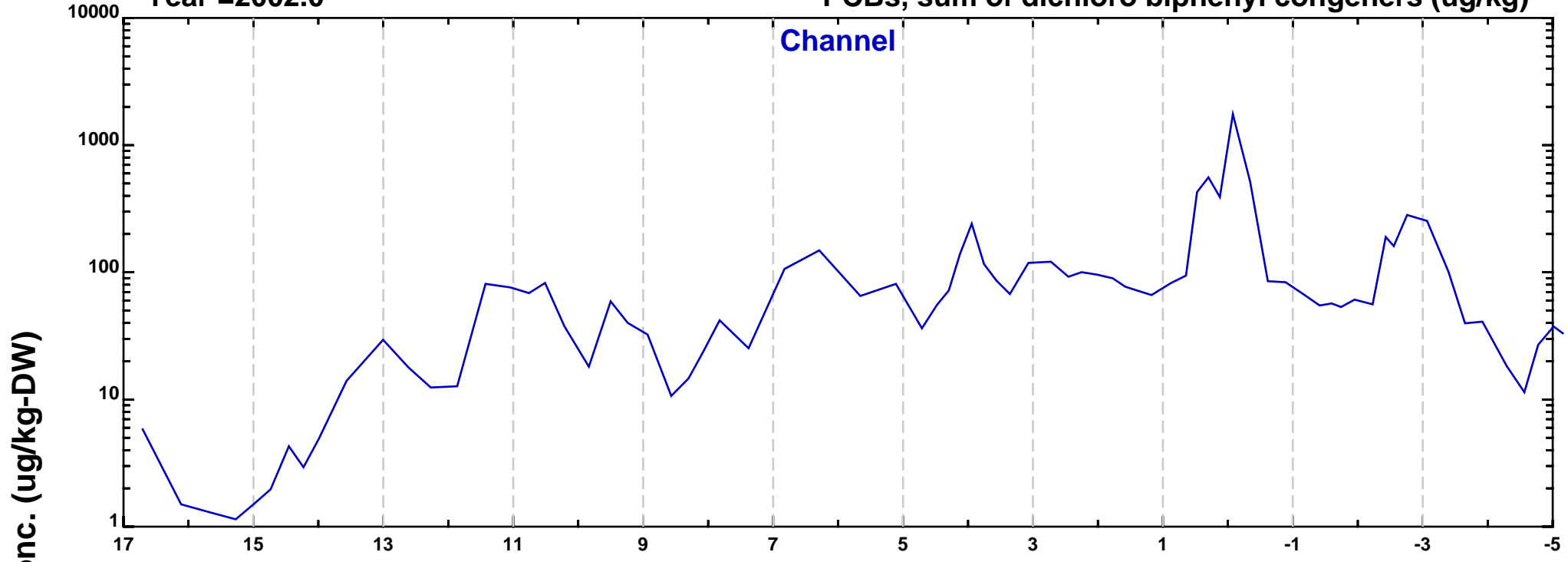
East Newark Bay shoal





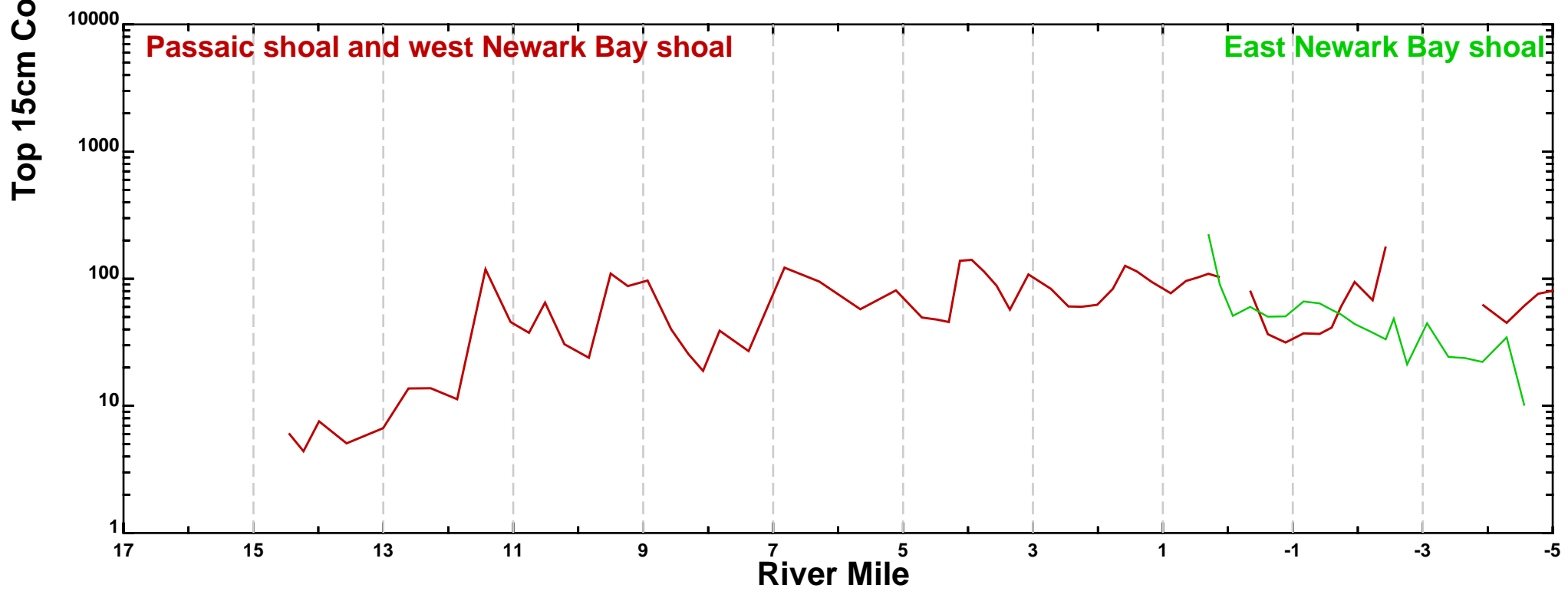
Year =2002.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

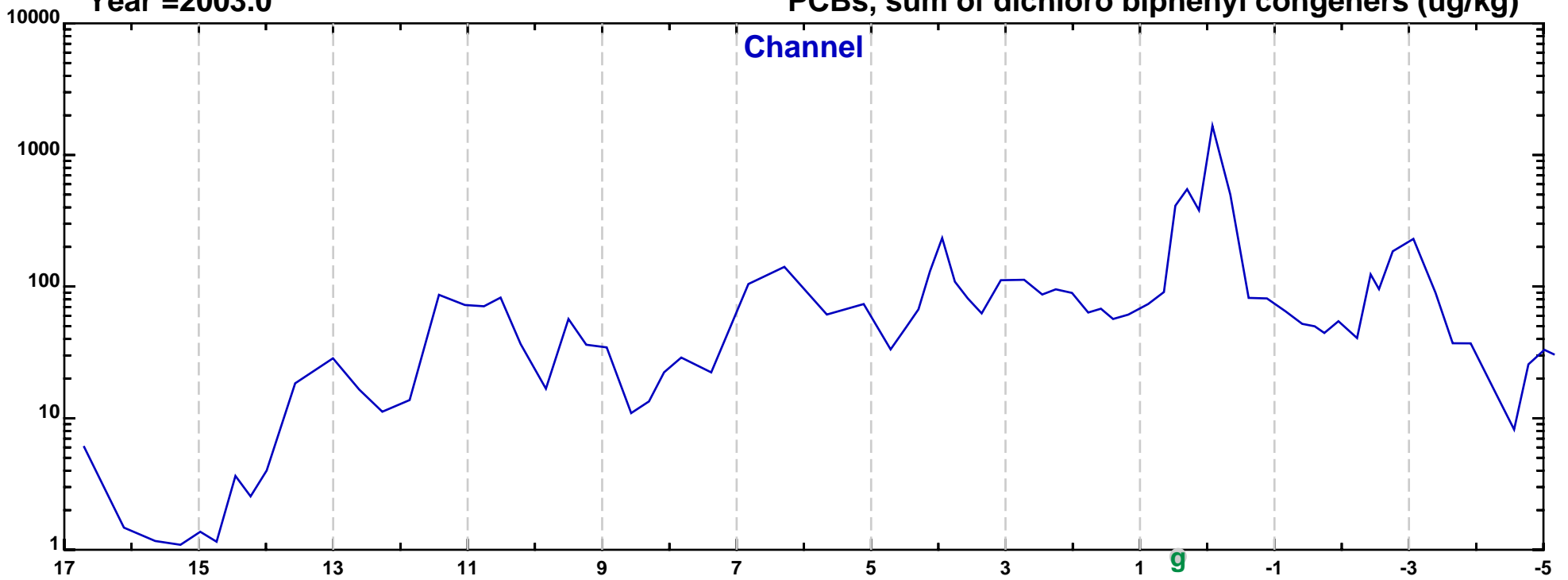
East Newark Bay shoal



Year =2003.0

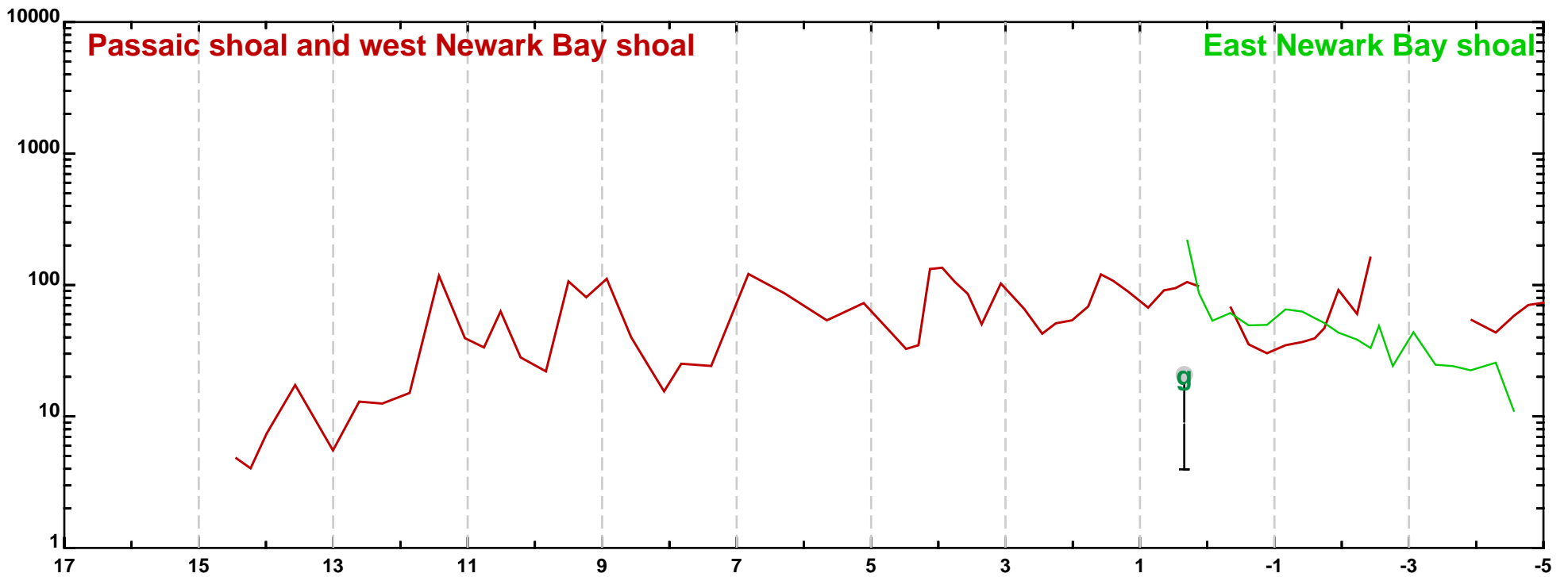
PCBs, sum of dichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

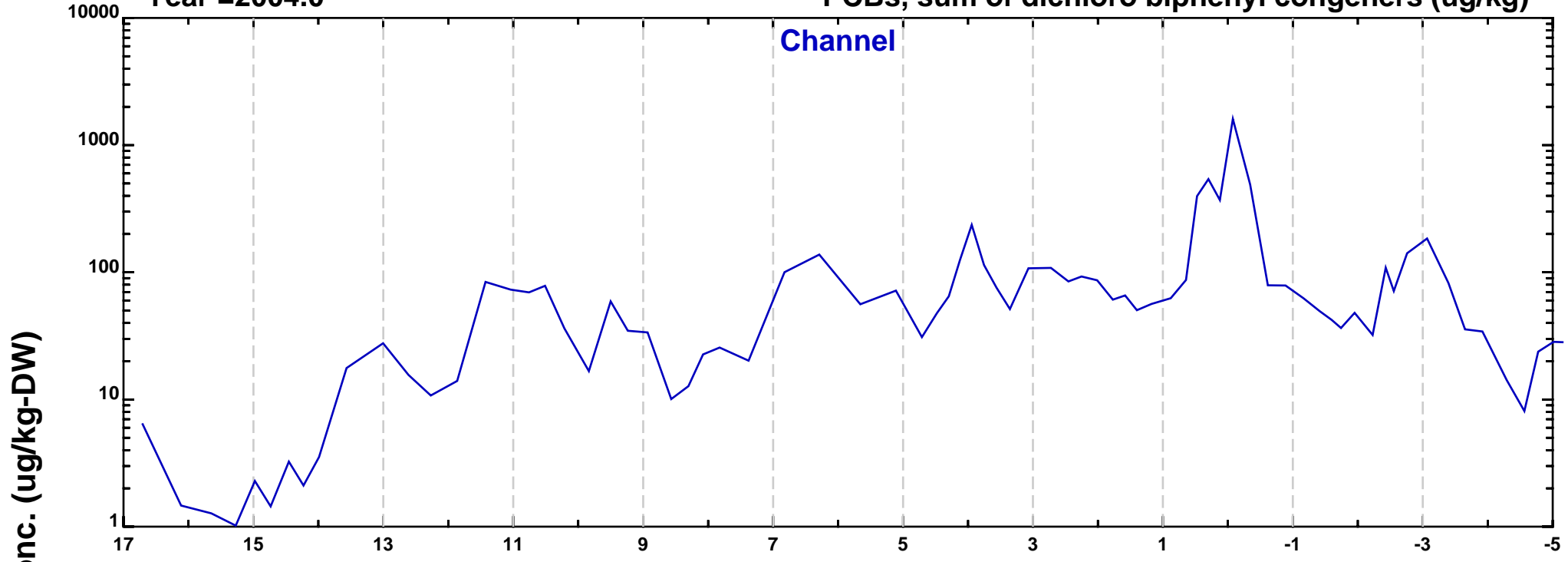
East Newark Bay shoal



River Mile

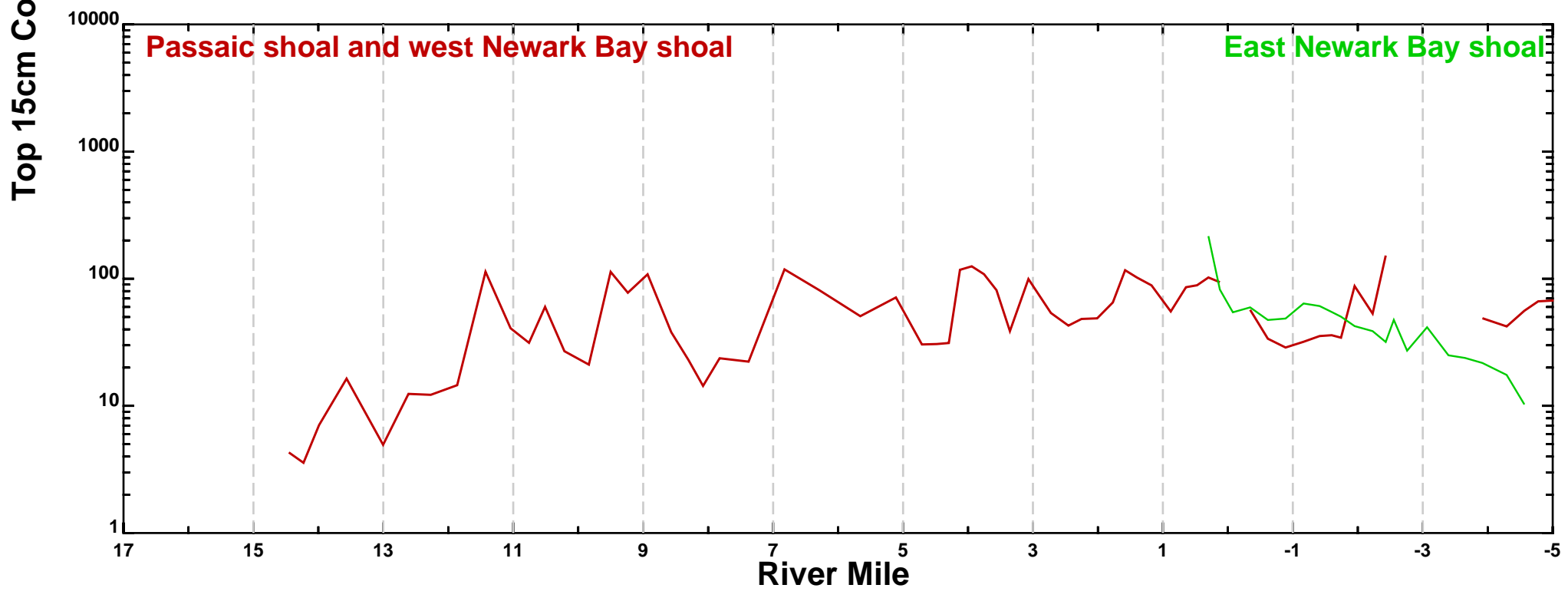
Year =2004.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



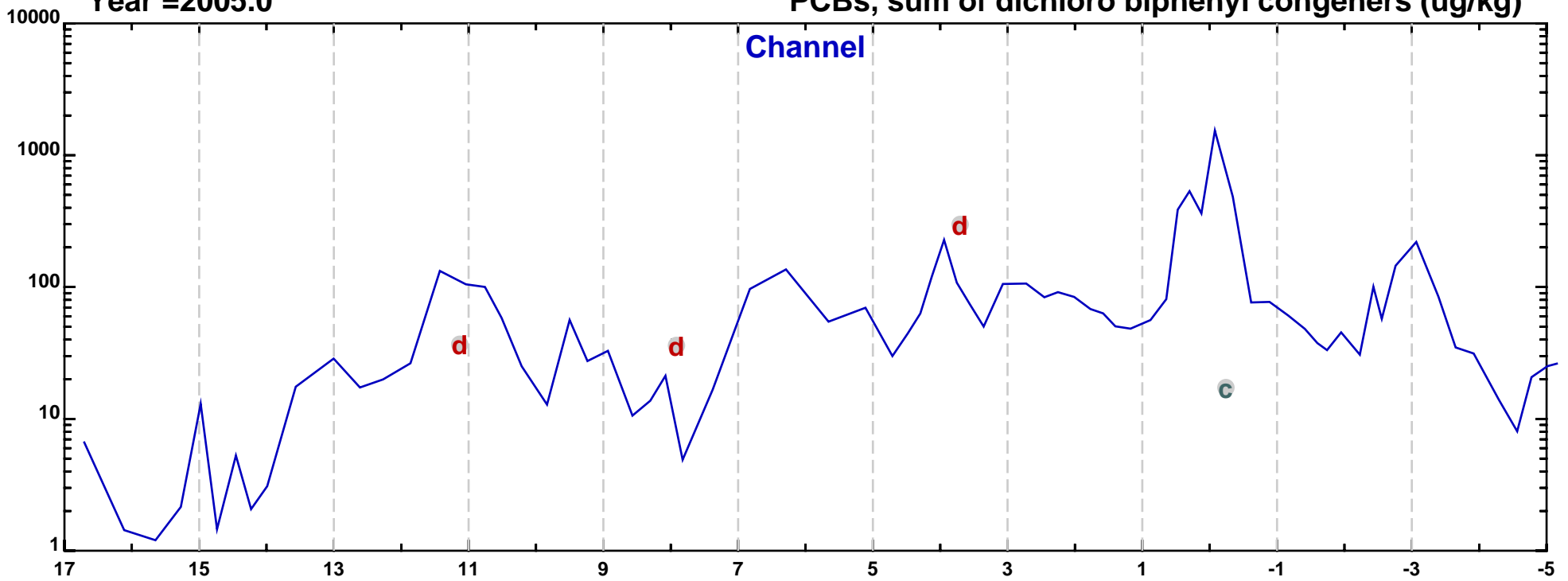
River Mile

Year =2005.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)

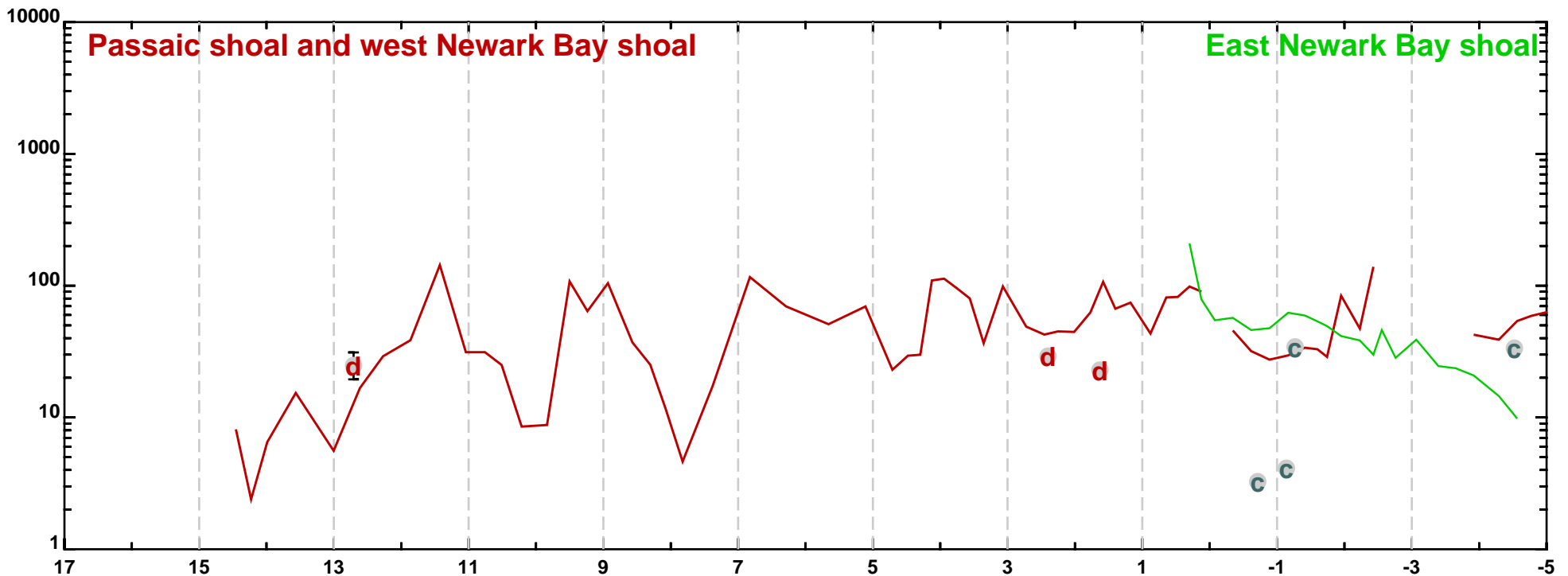
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

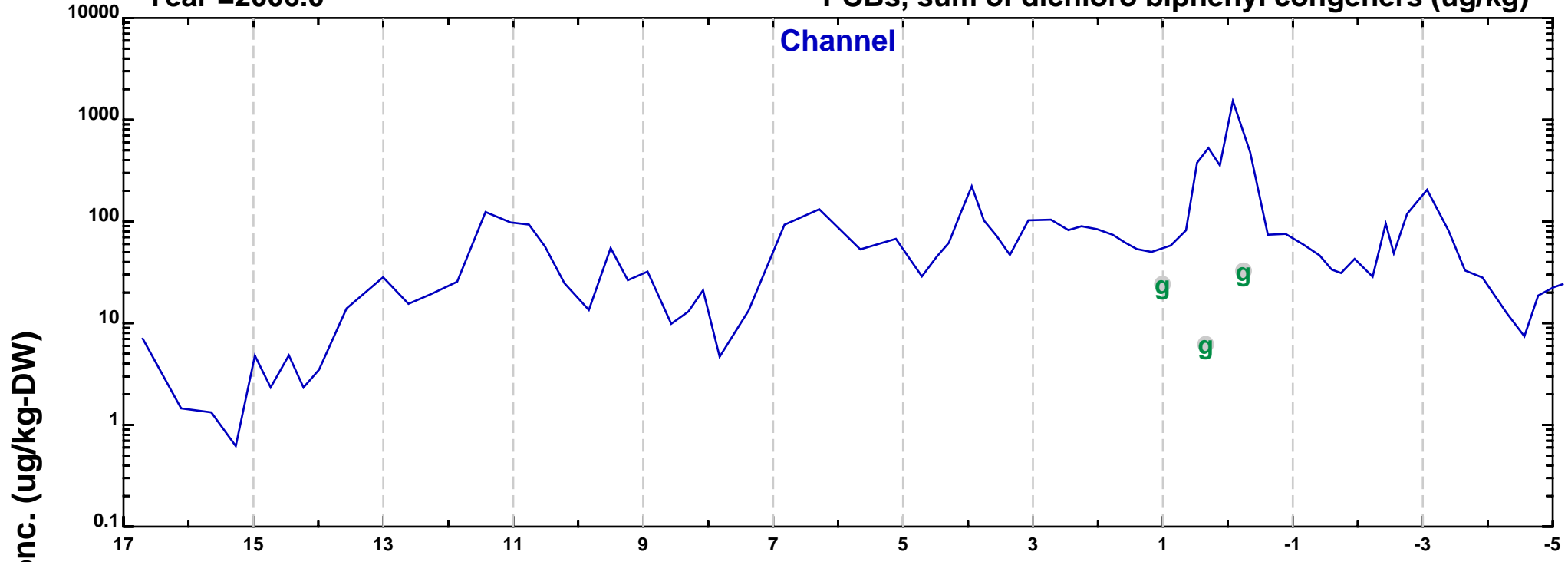
East Newark Bay shoal



River Mile

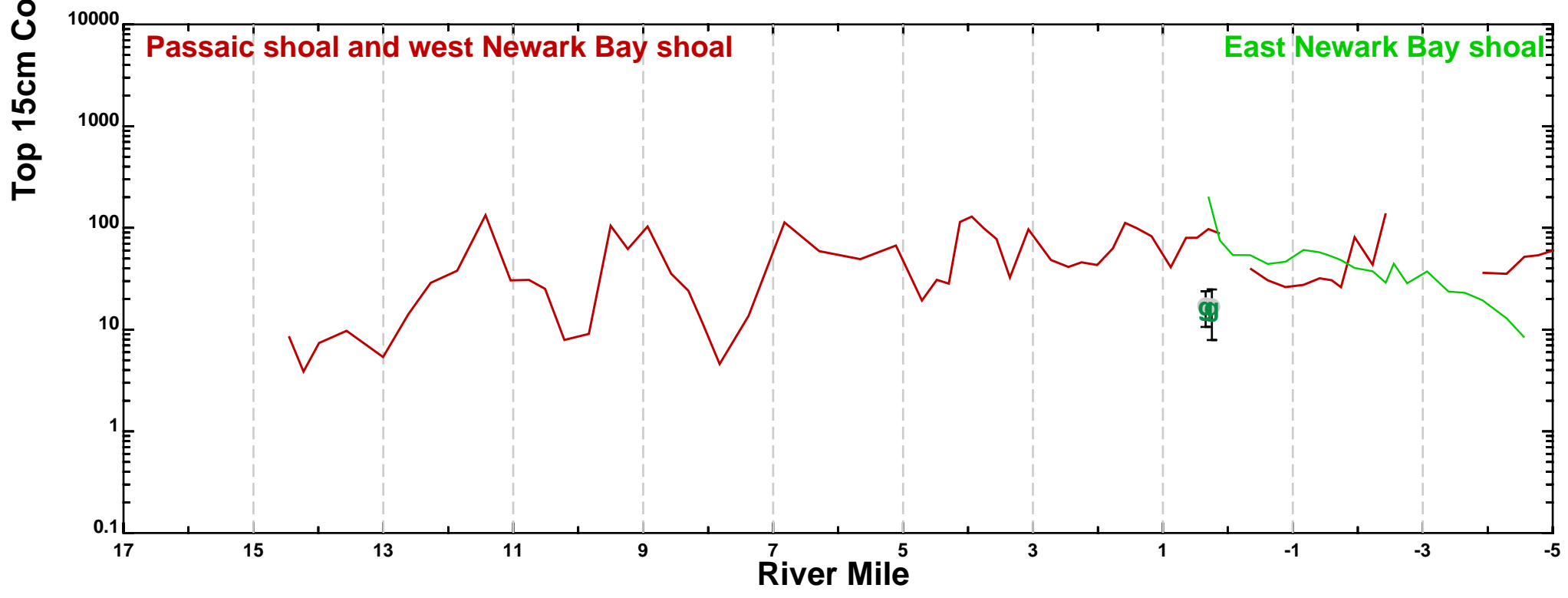
Year =2006.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



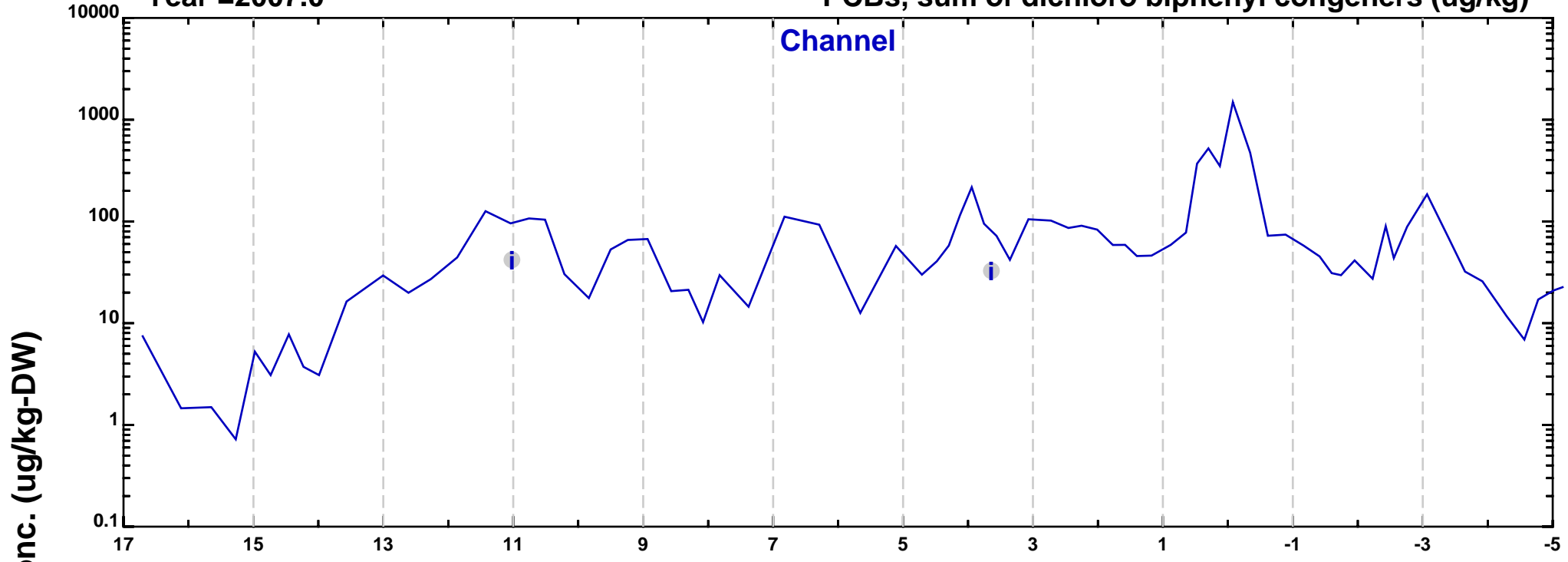
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



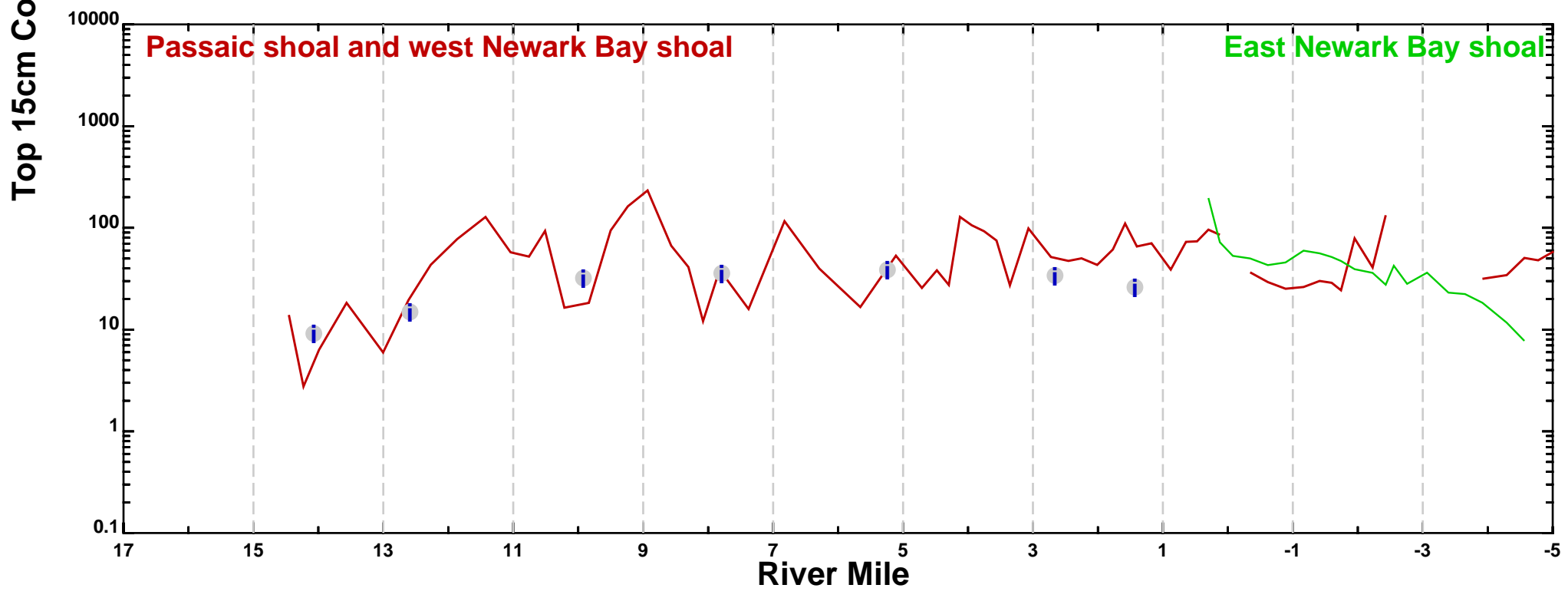
Year =2007.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

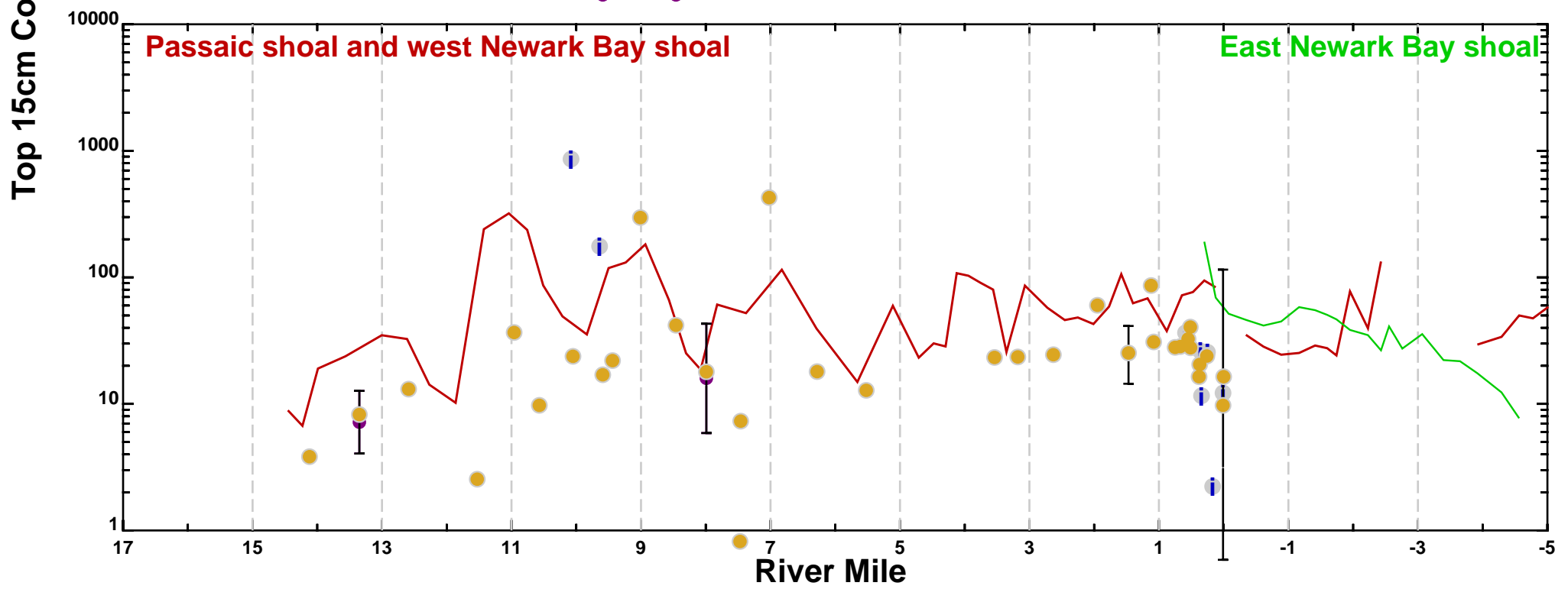
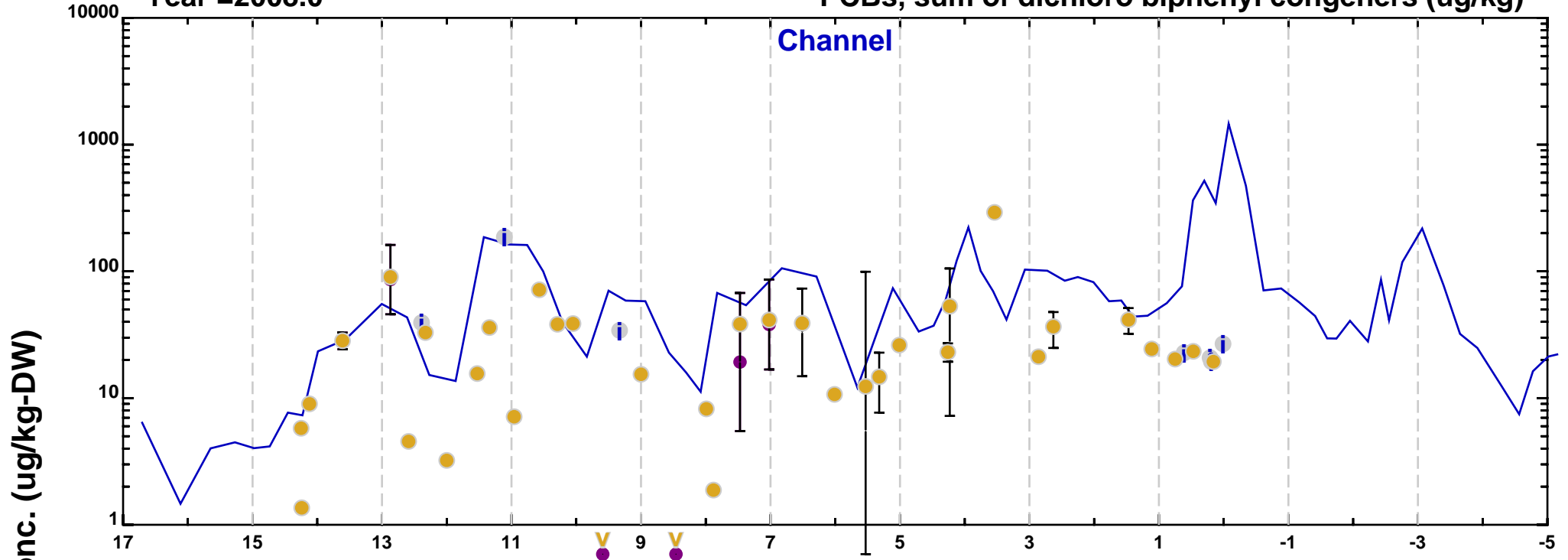
East Newark Bay shoal



River Mile

Year =2008.0

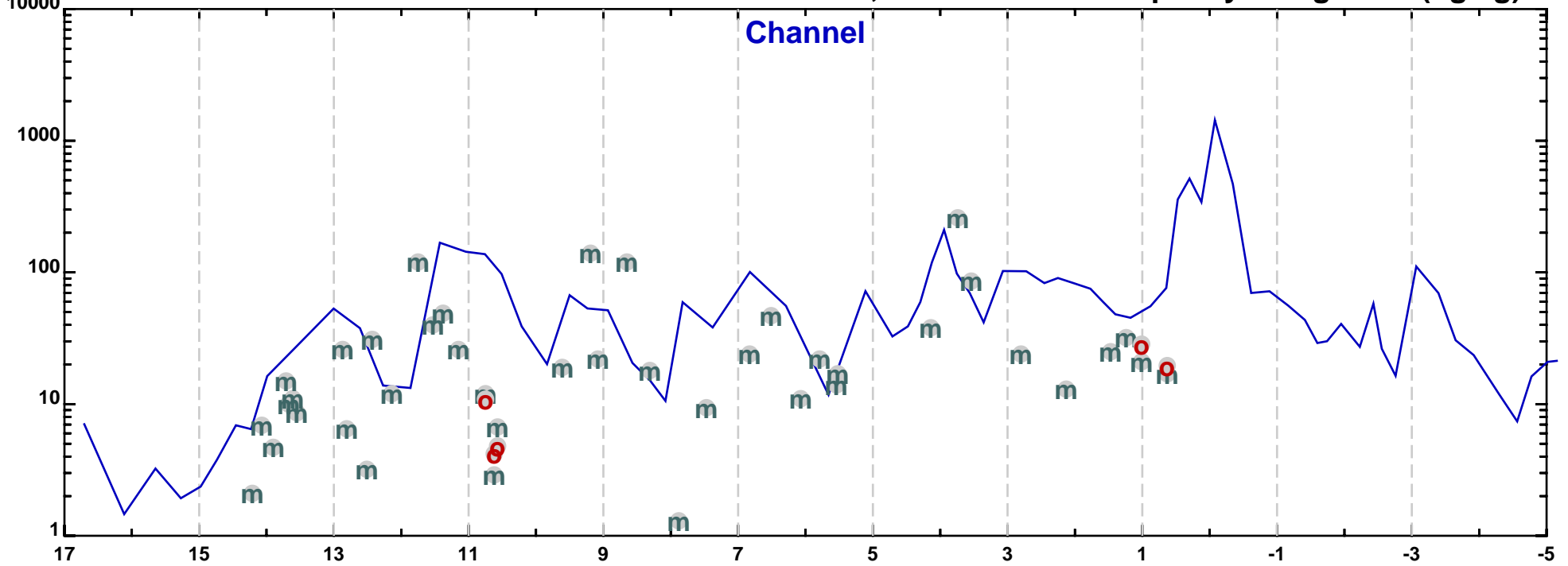
PCBs, sum of dichloro biphenyl congeners (ug/kg)



Year =2009.0

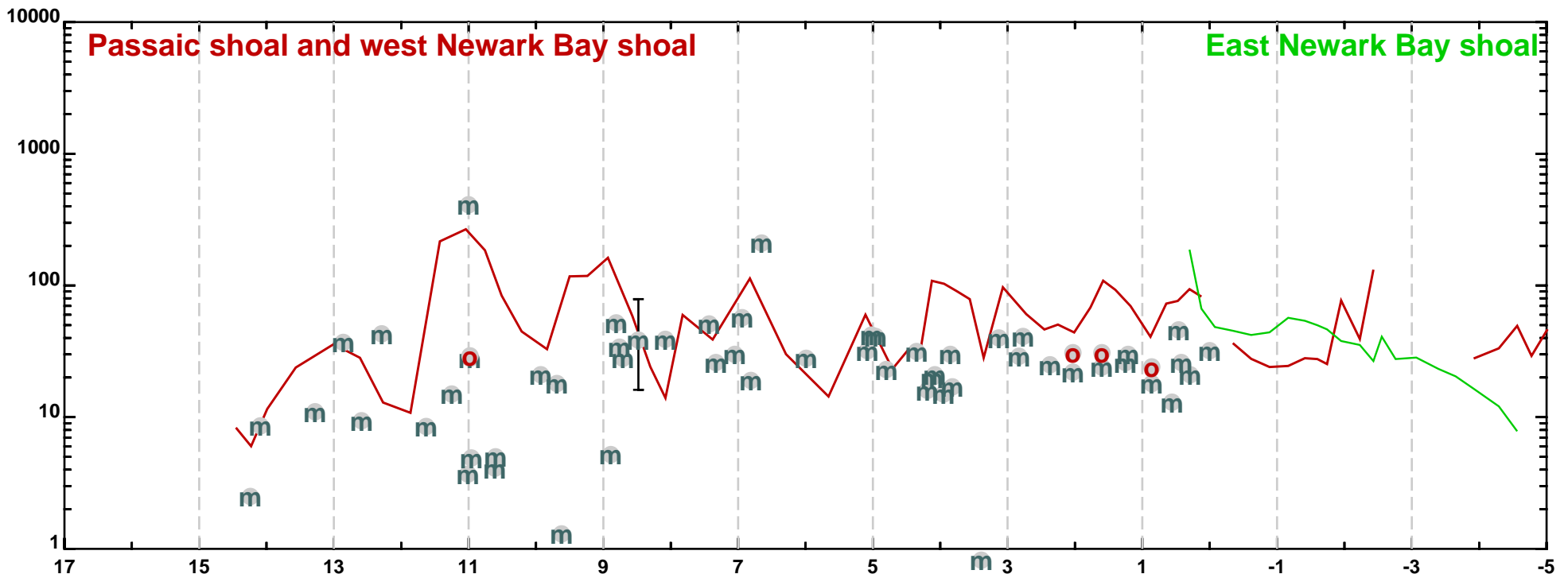
PCBs, sum of dichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

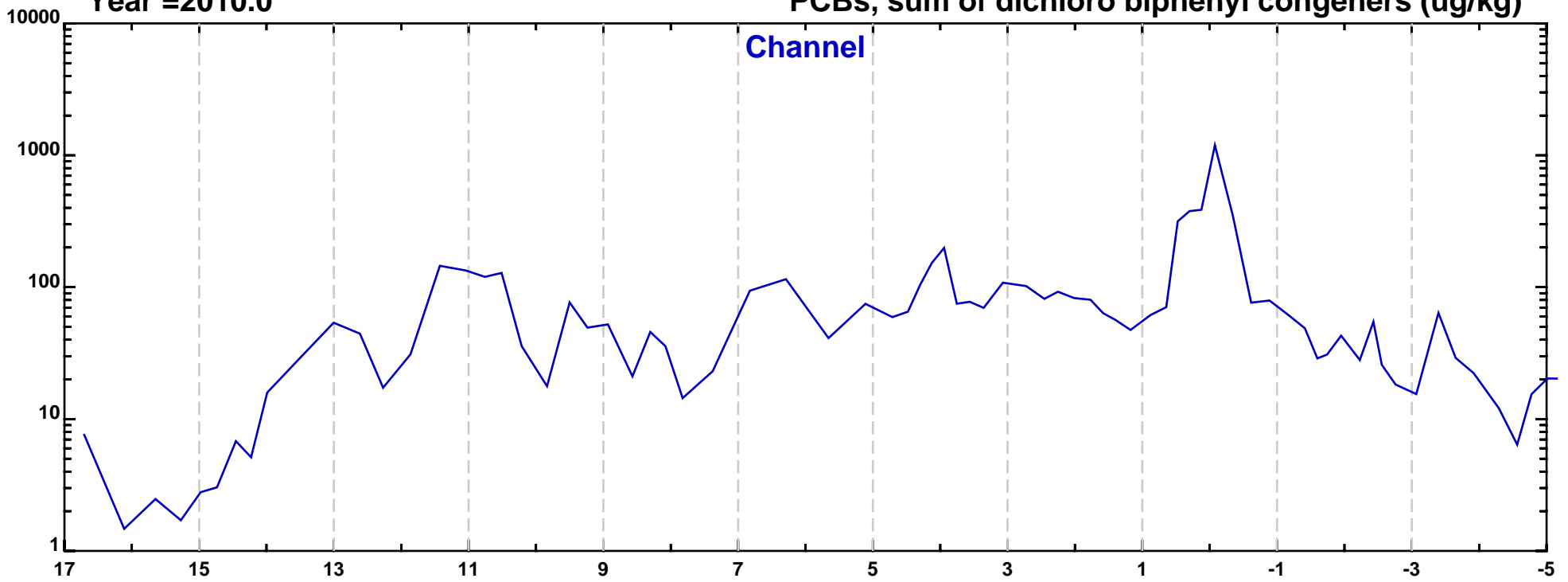


Year =2010.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)

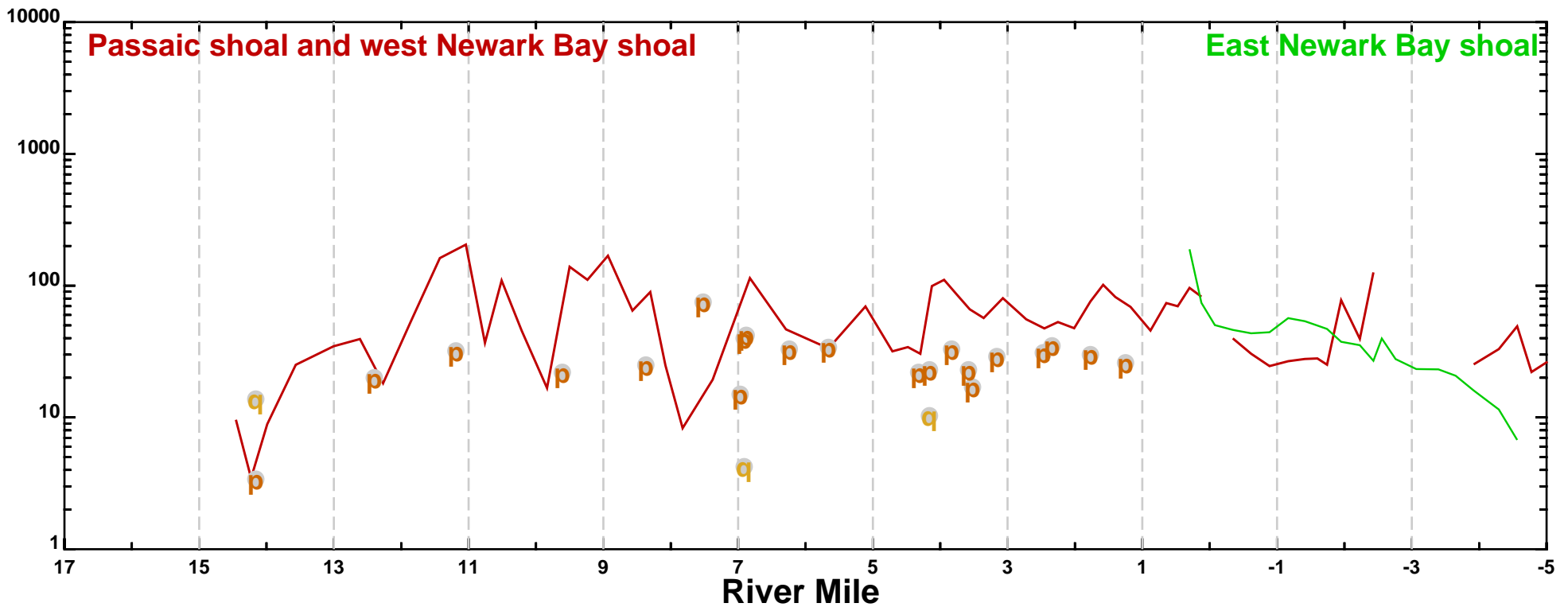
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2011.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)

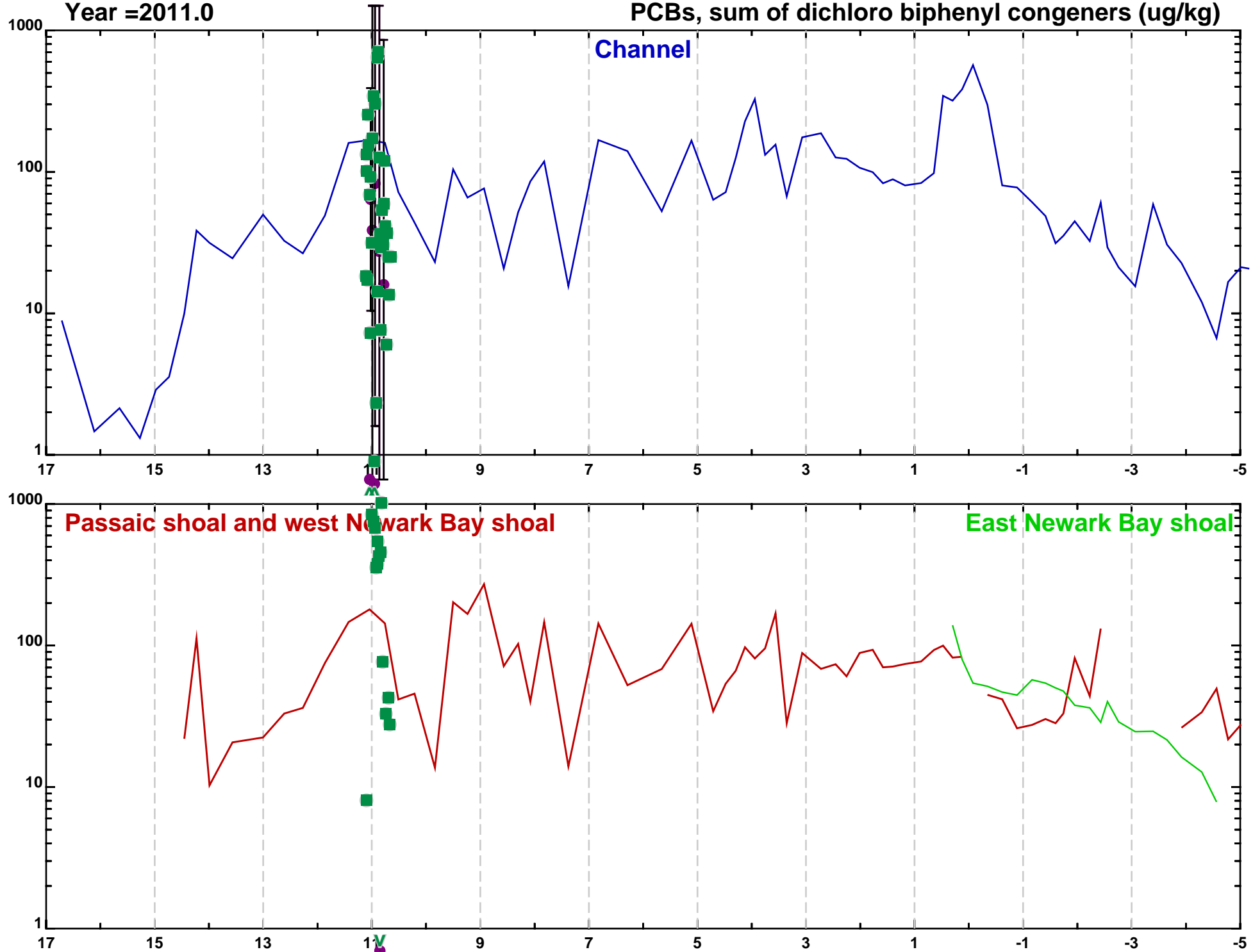
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

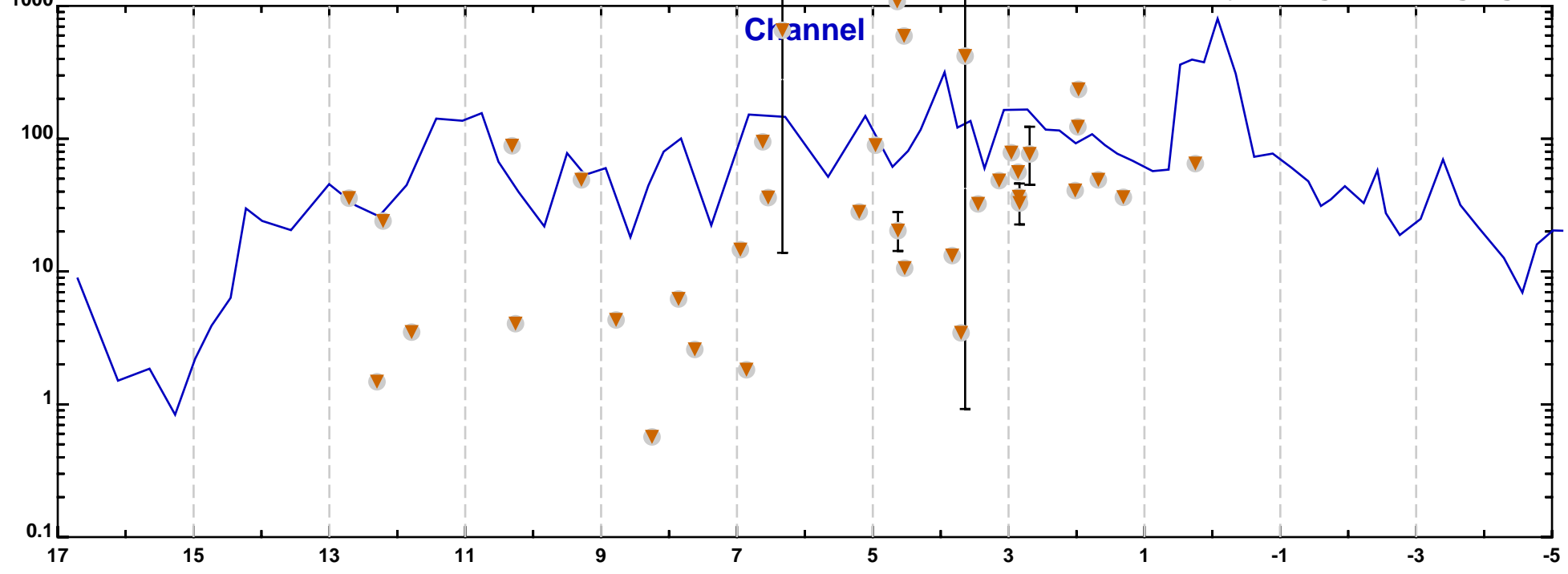
River Mile



Year =2012.0

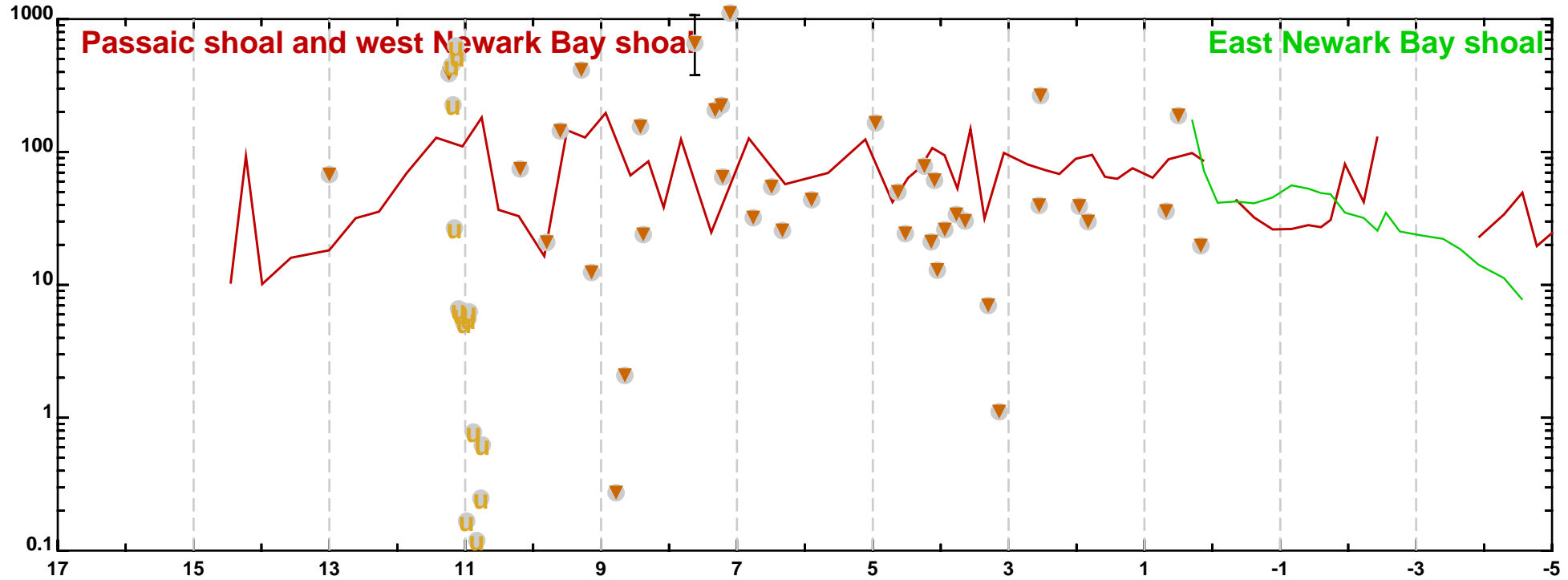
PCBs, sum of dichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

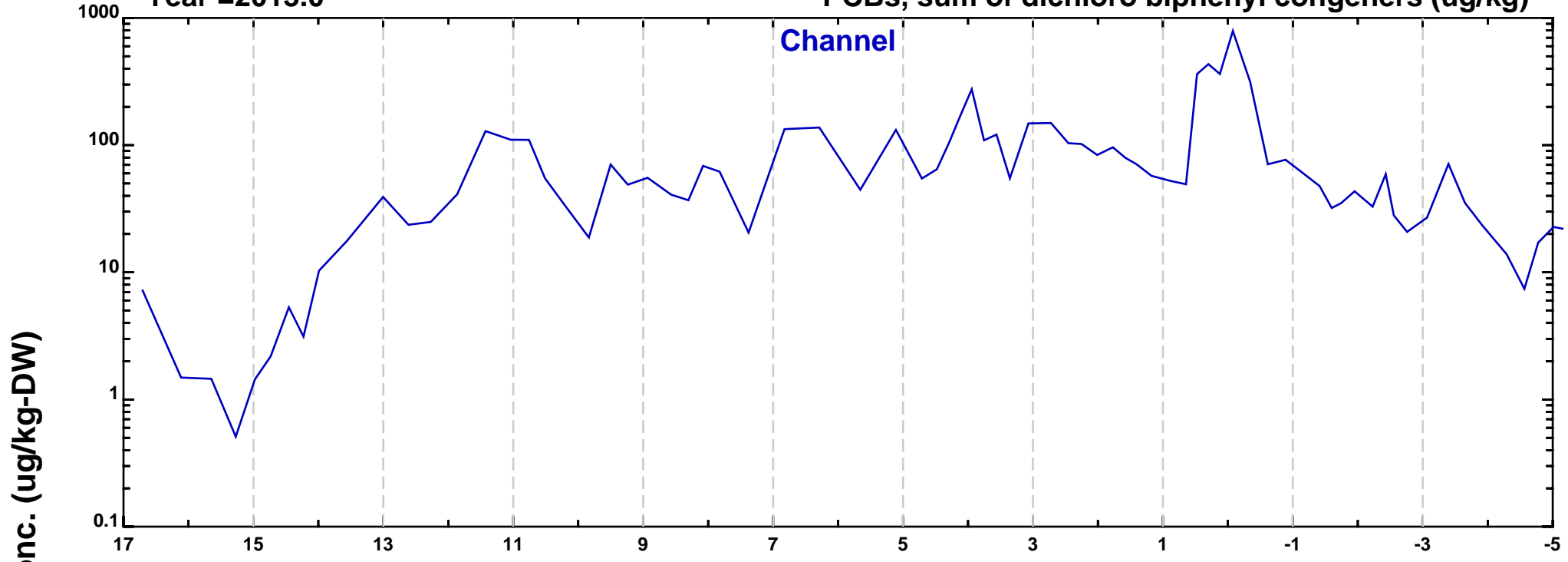
East Newark Bay shoal



River Mile

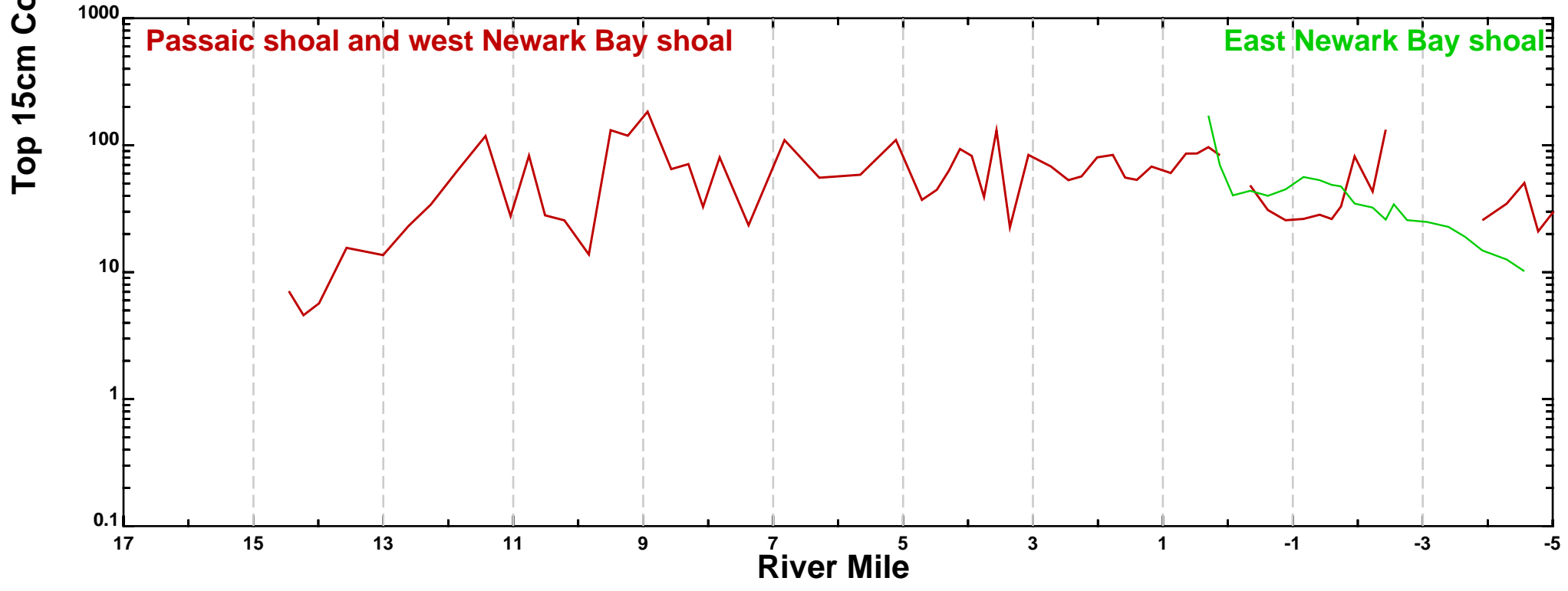
Year =2013.0

PCBs, sum of dichloro biphenyl congeners (ug/kg)

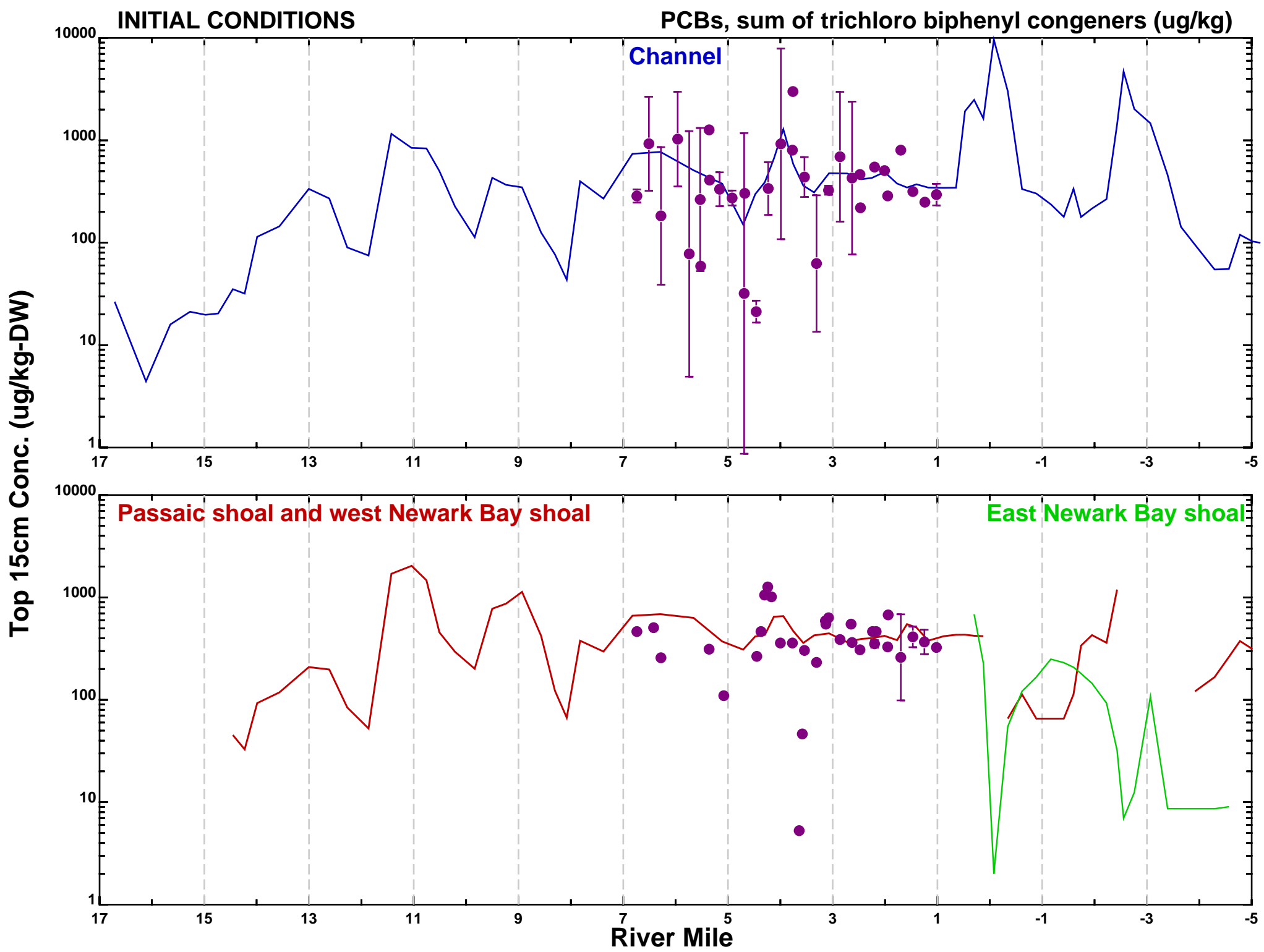


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

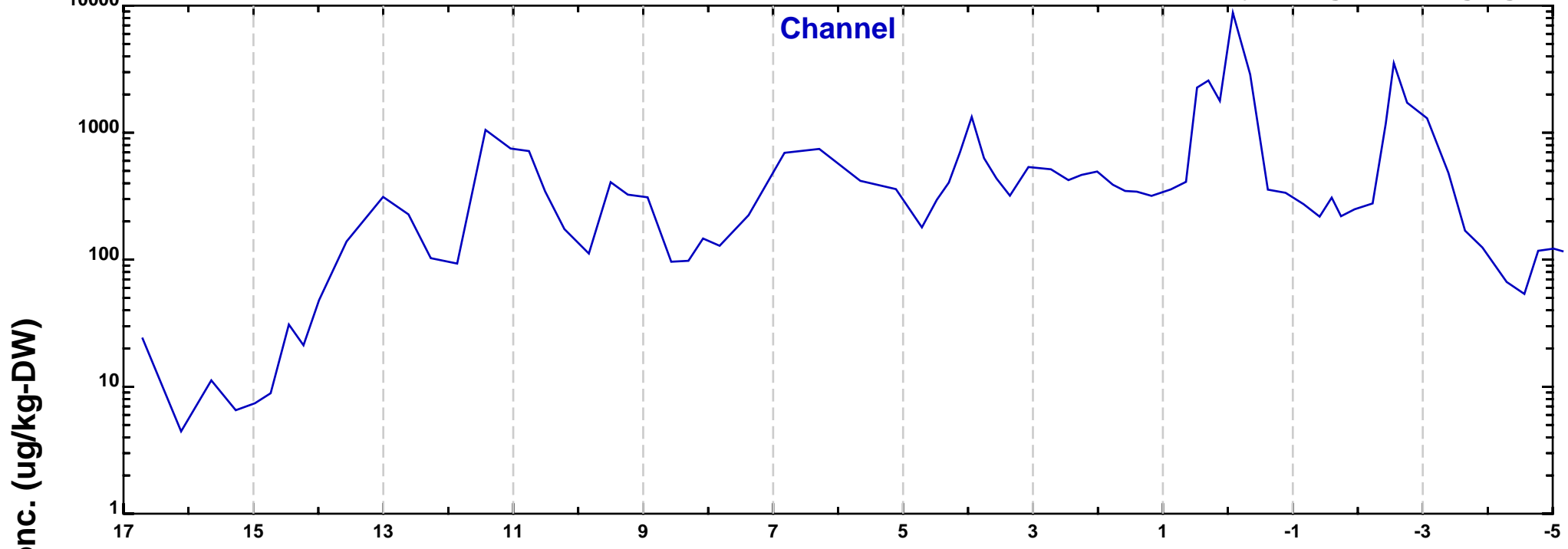


River Mile



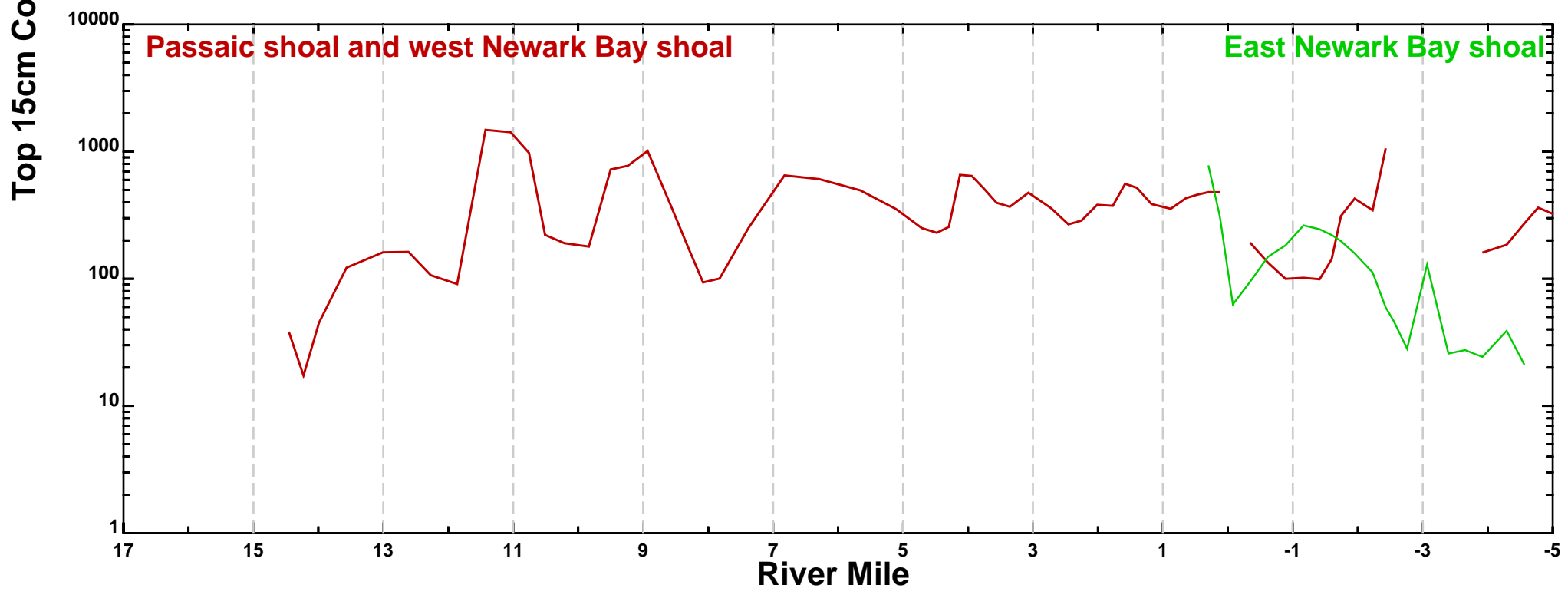
Year =1996.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



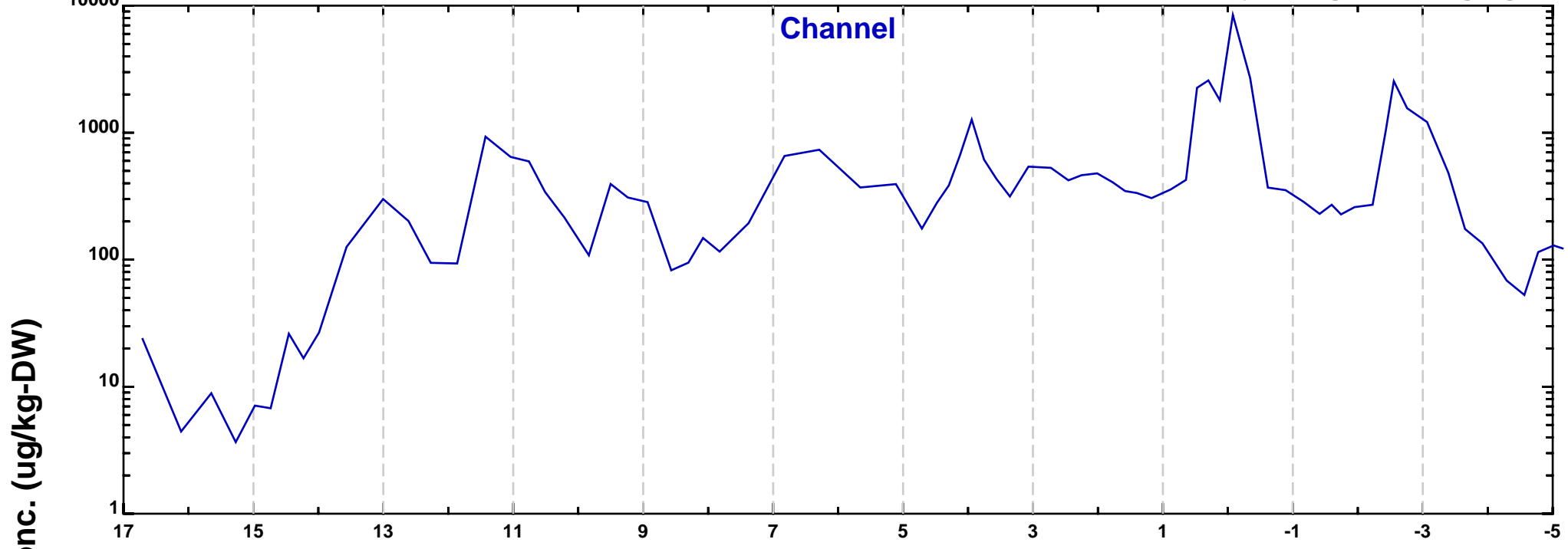
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



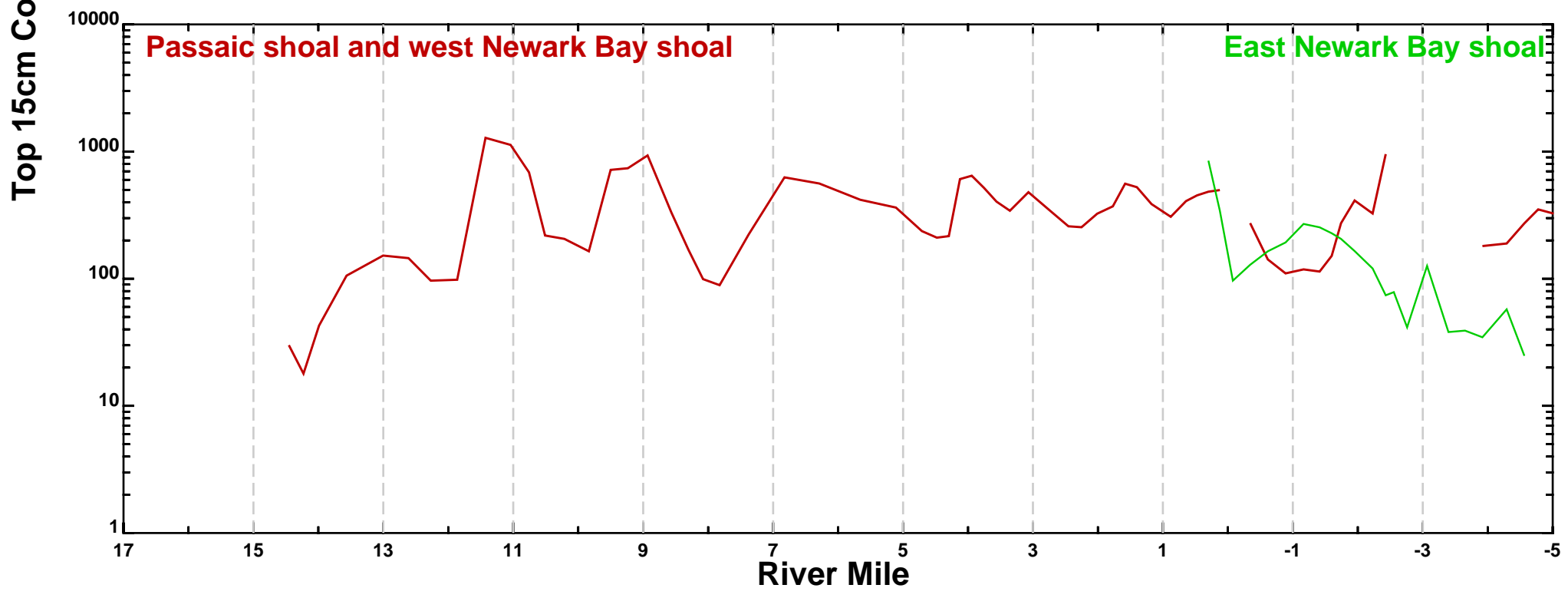
Year =1997.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



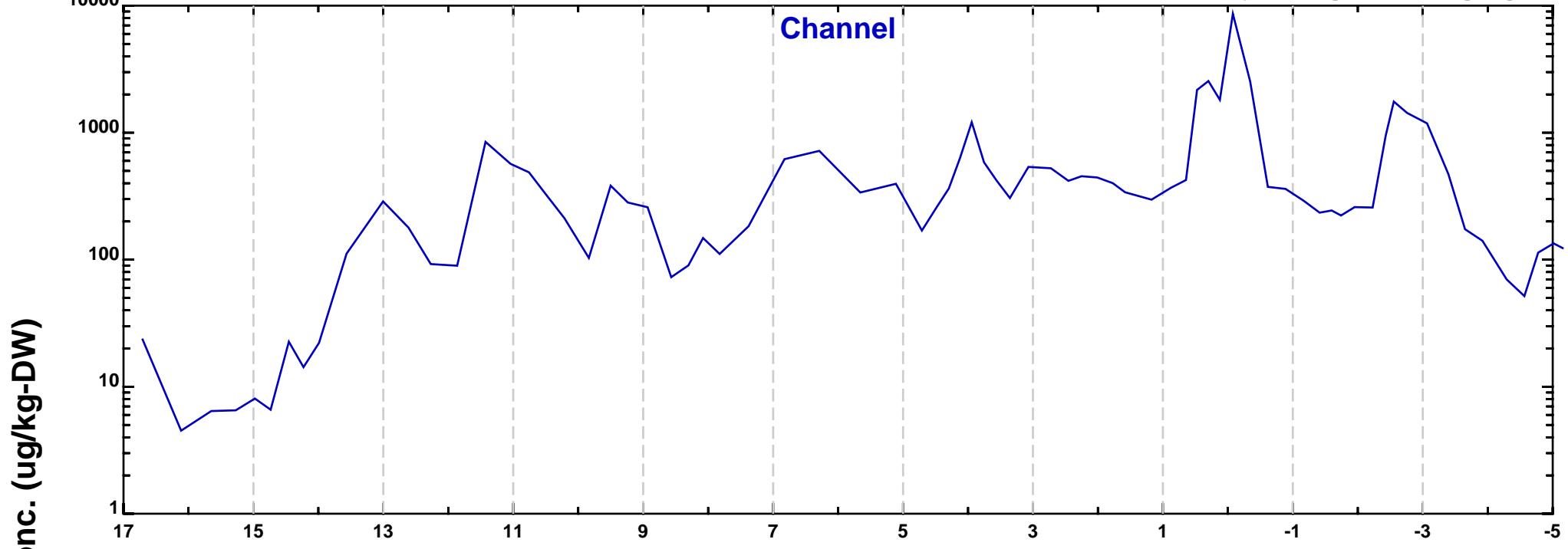
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =1998.0

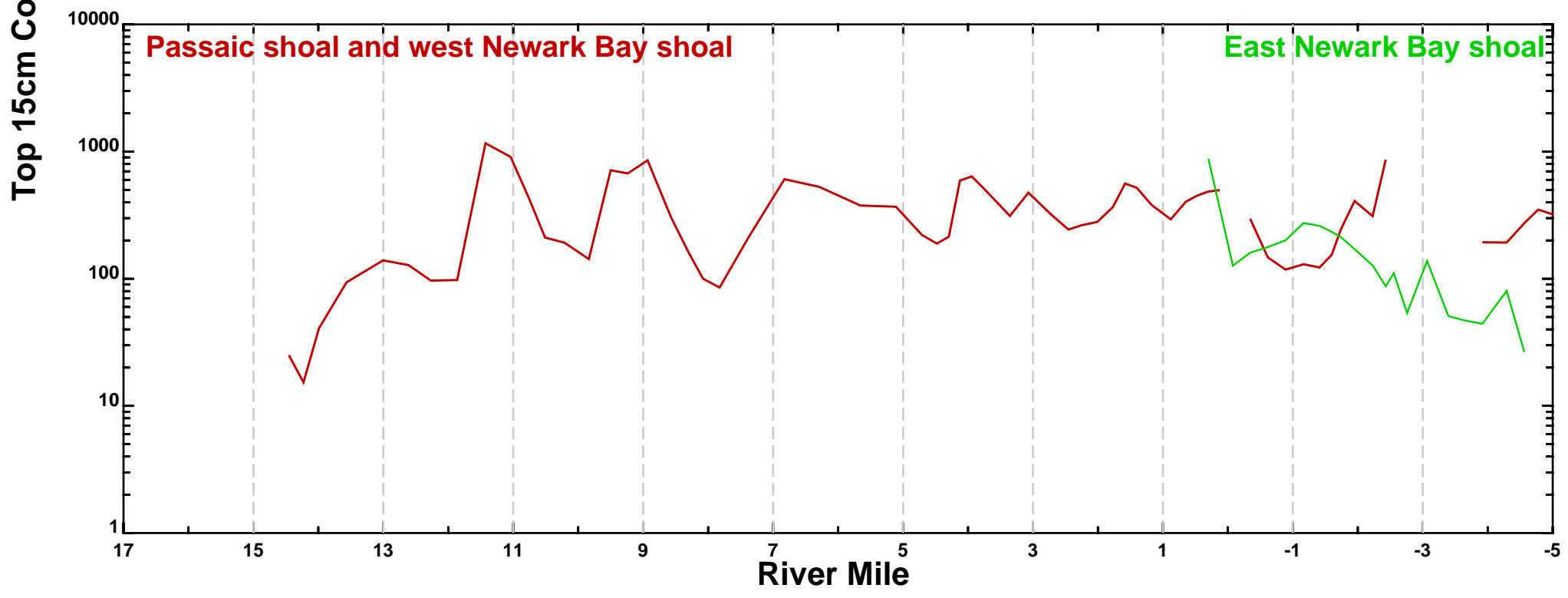
PCBs, sum of trichloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



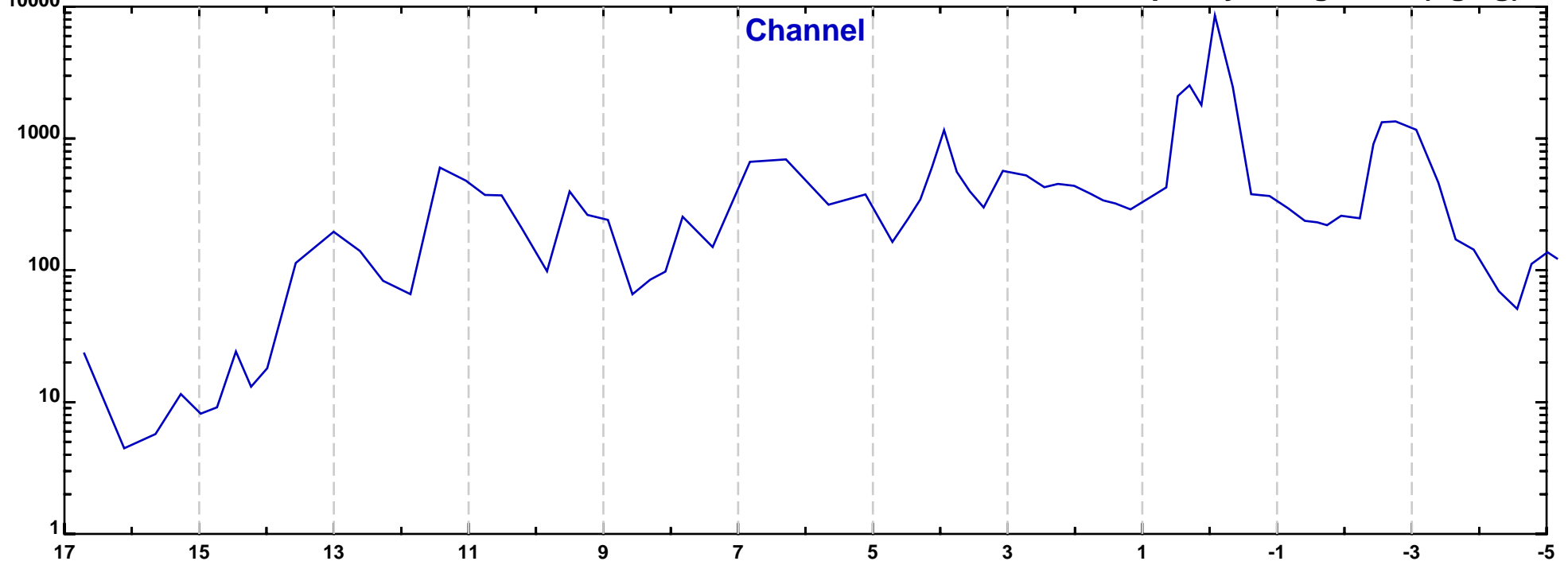
River Mile



Year =1999.0

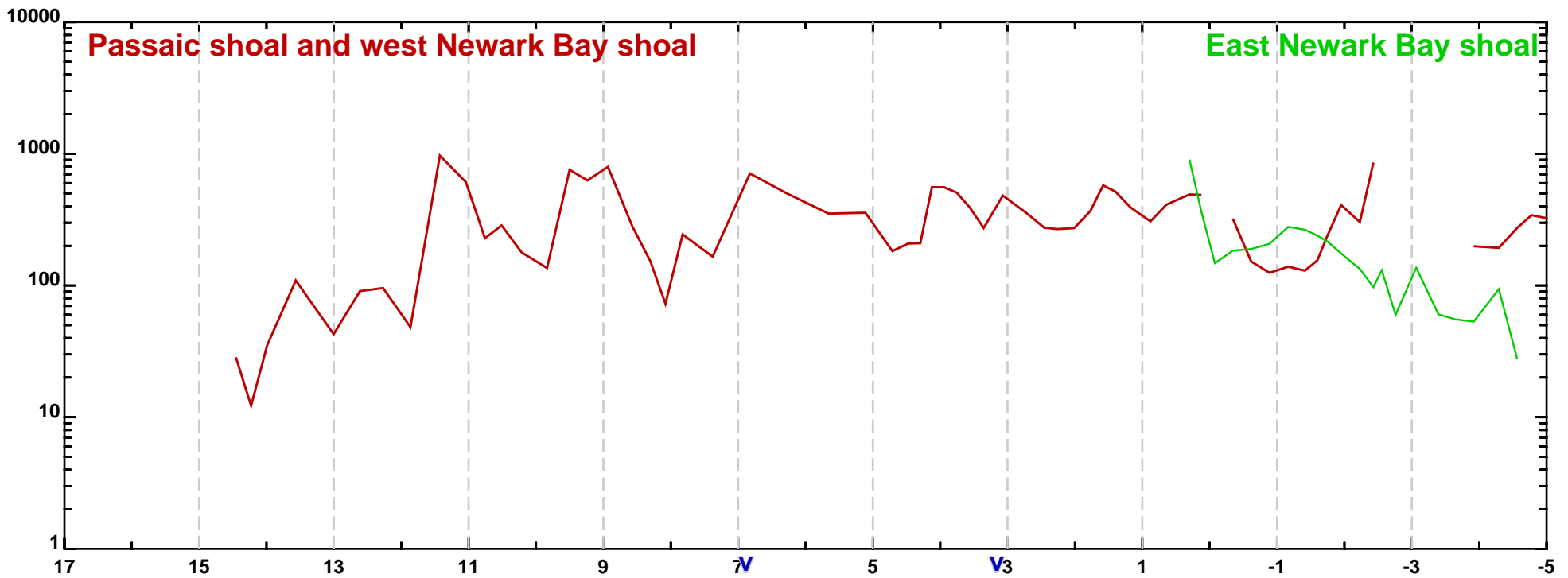
PCBs, sum of trichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

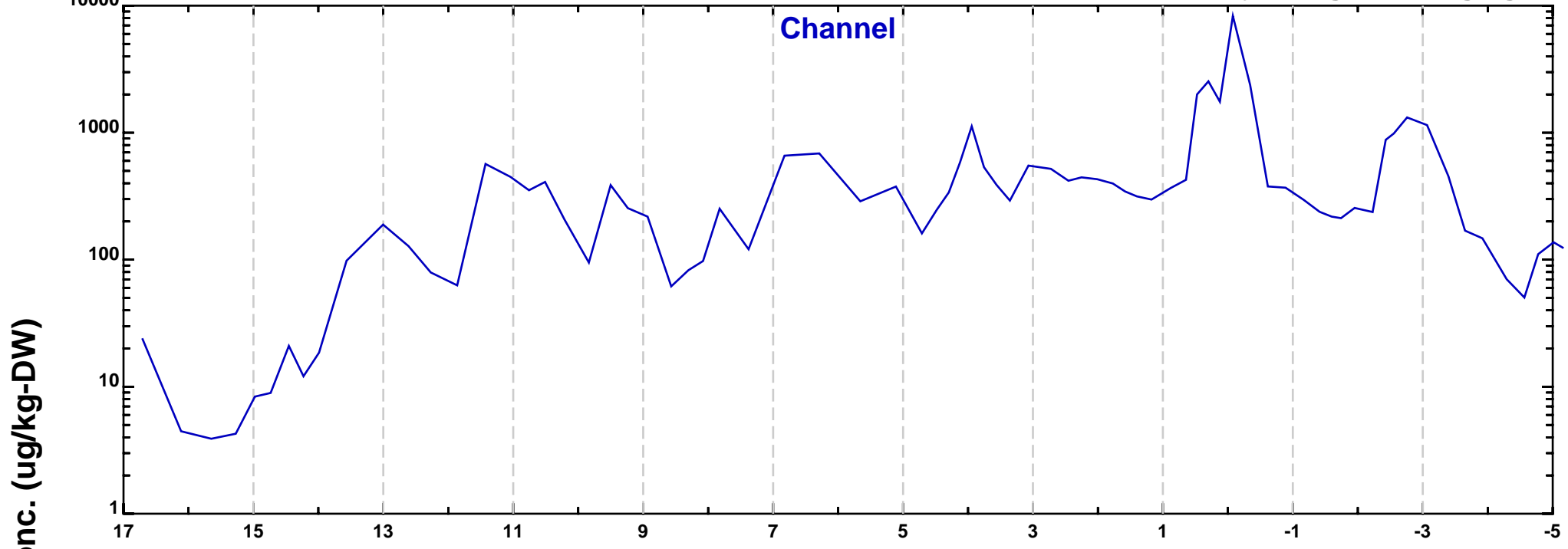
East Newark Bay shoal



River Mile

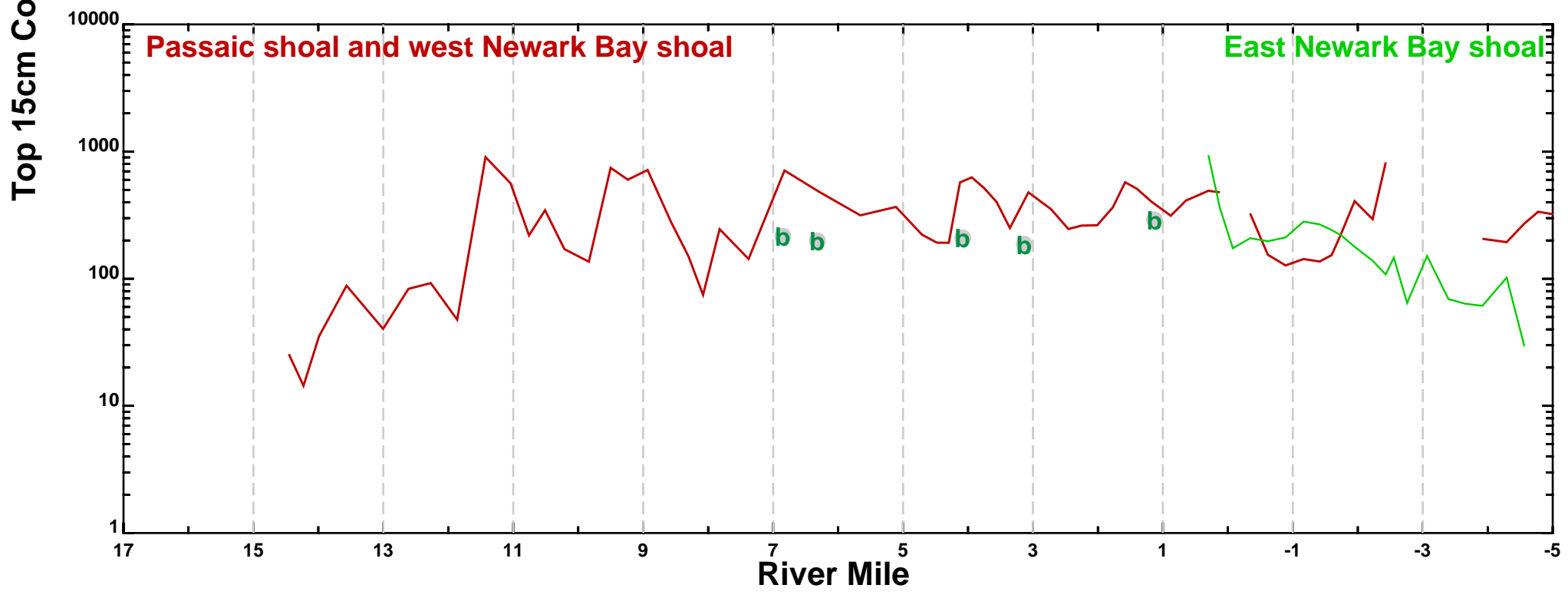
Year =2000.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

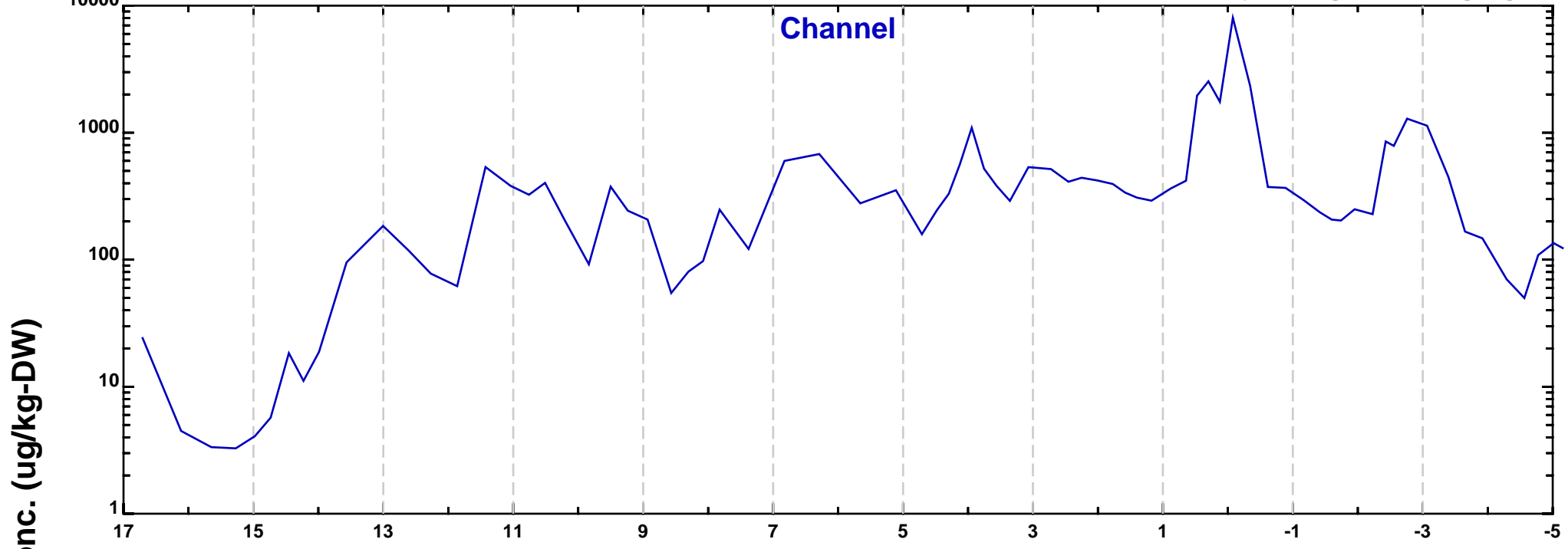
East Newark Bay shoal



River Mile

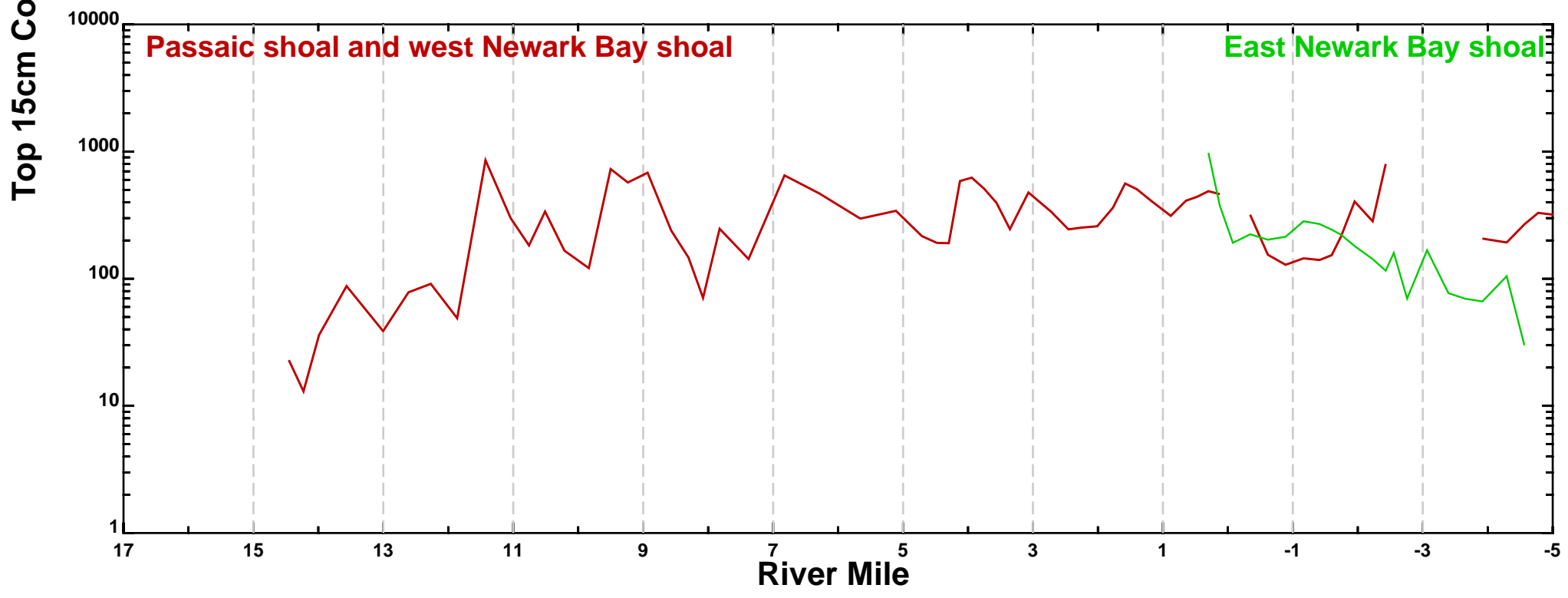
Year =2001.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

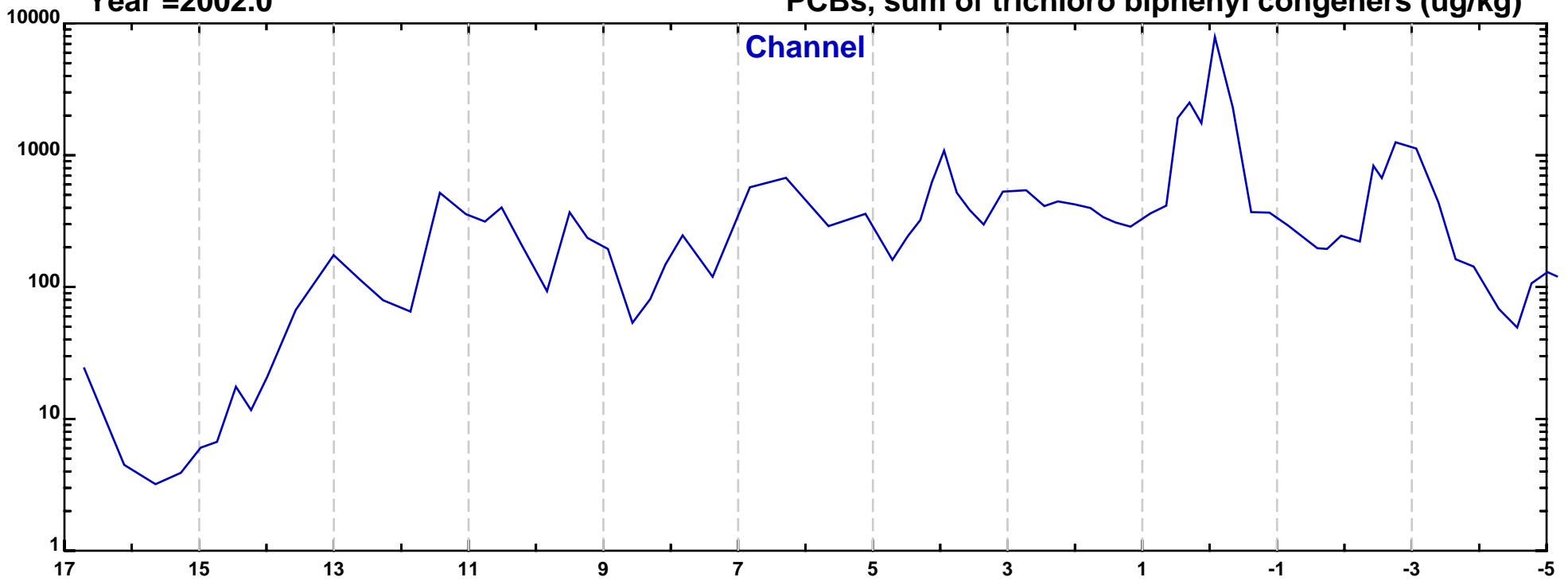


Year =2002.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)

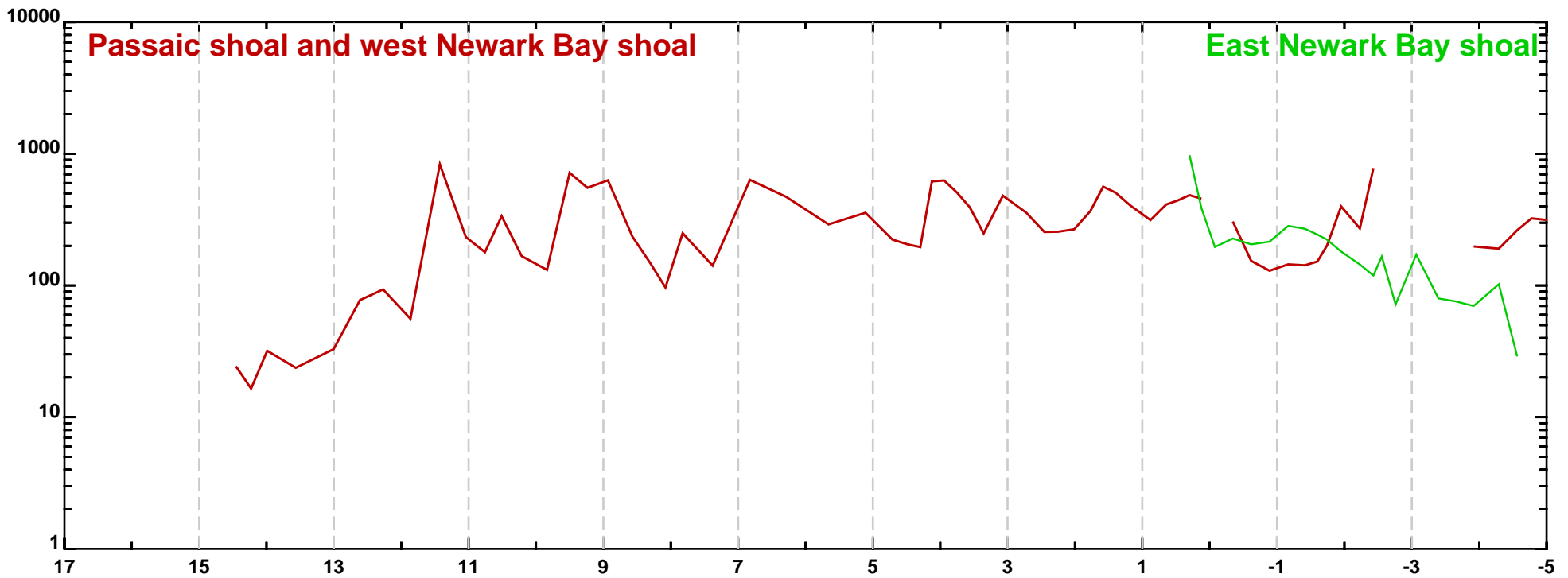
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

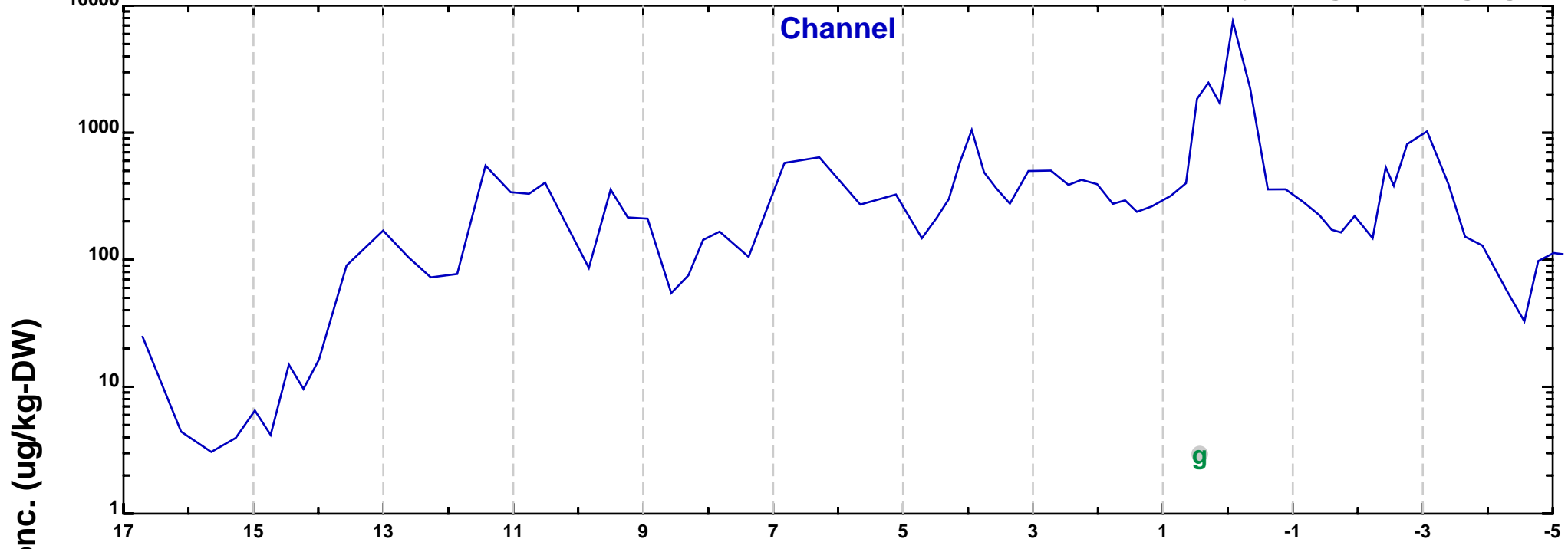
East Newark Bay shoal



River Mile

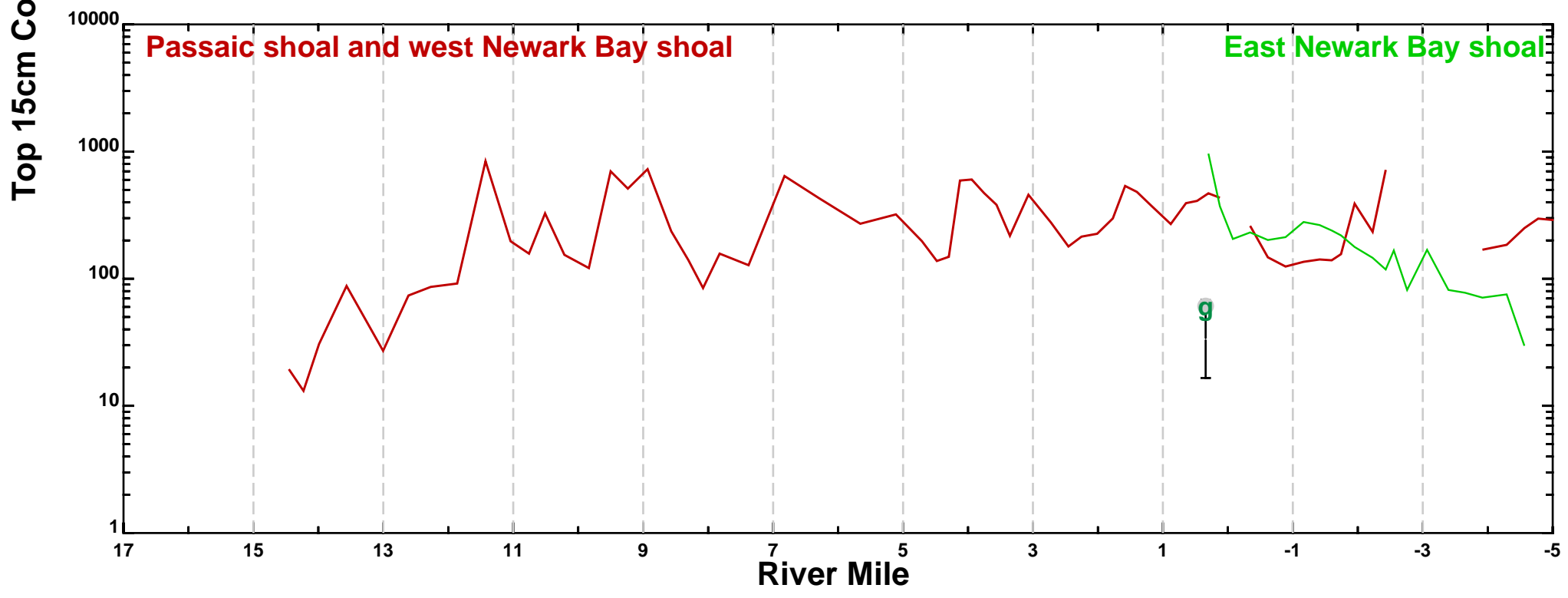
Year =2003.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



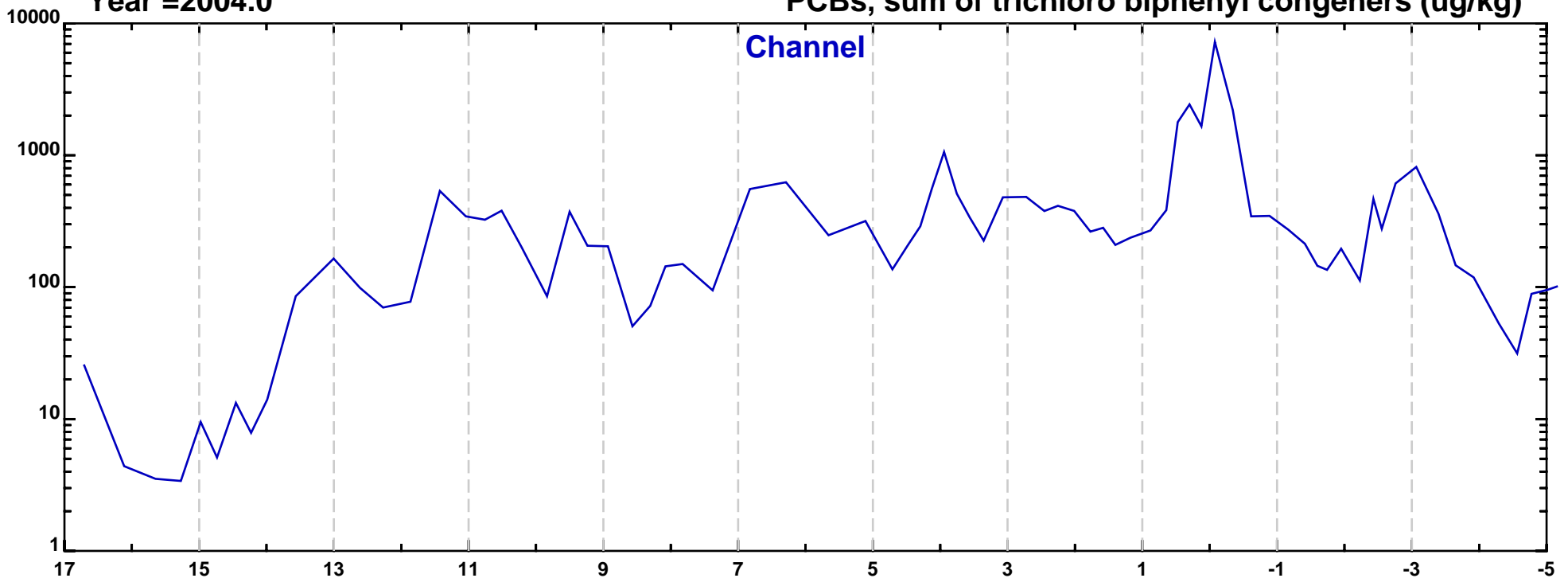
River Mile

Year =2004.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)

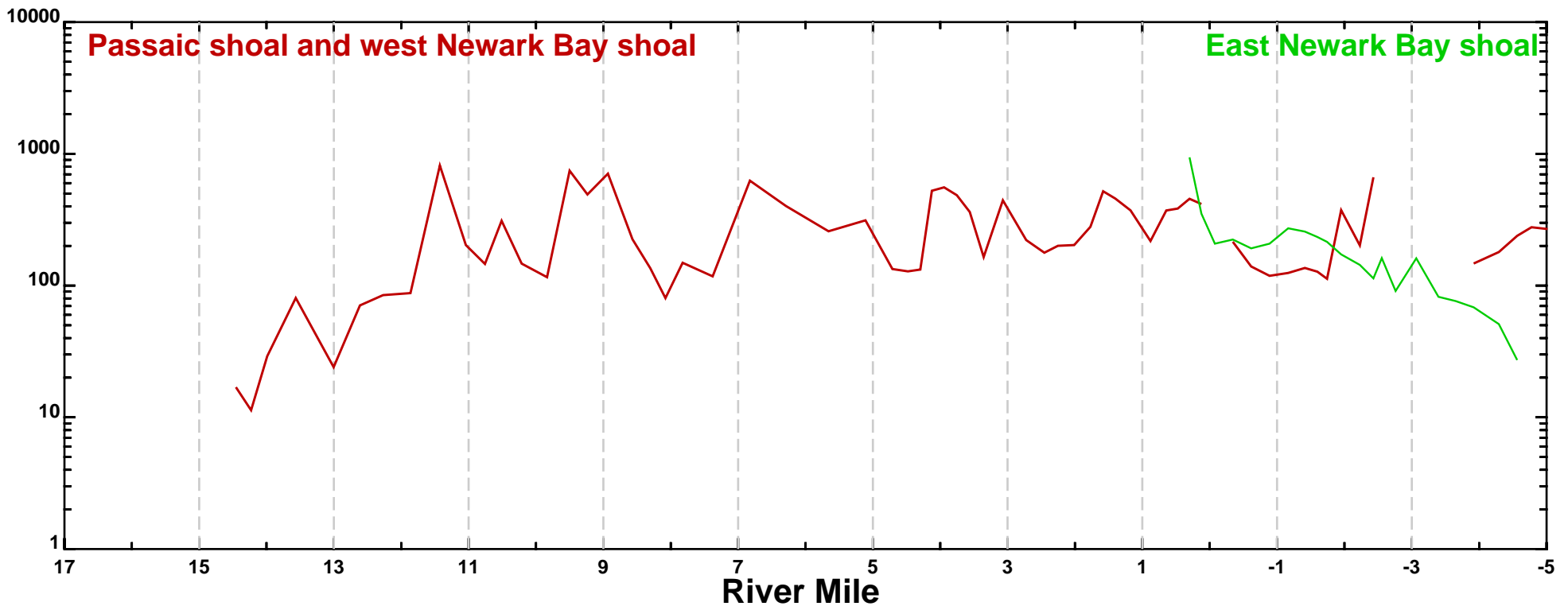
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

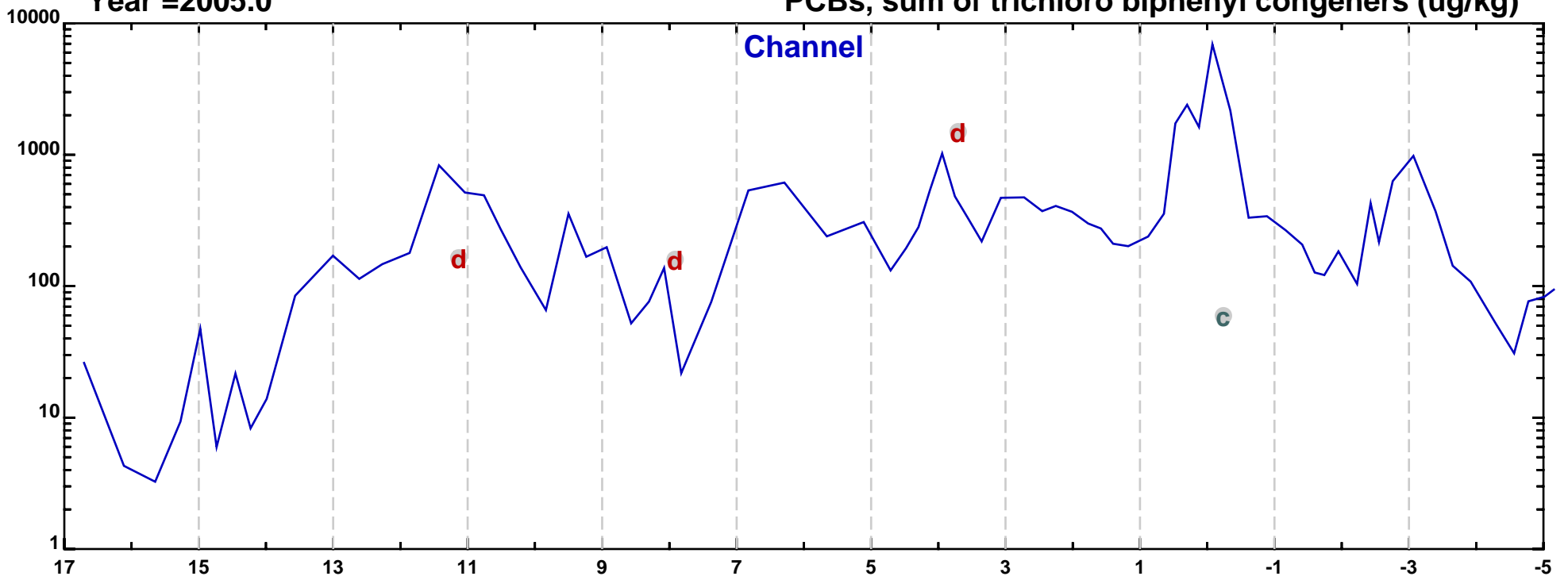
East Newark Bay shoal



Year =2005.0

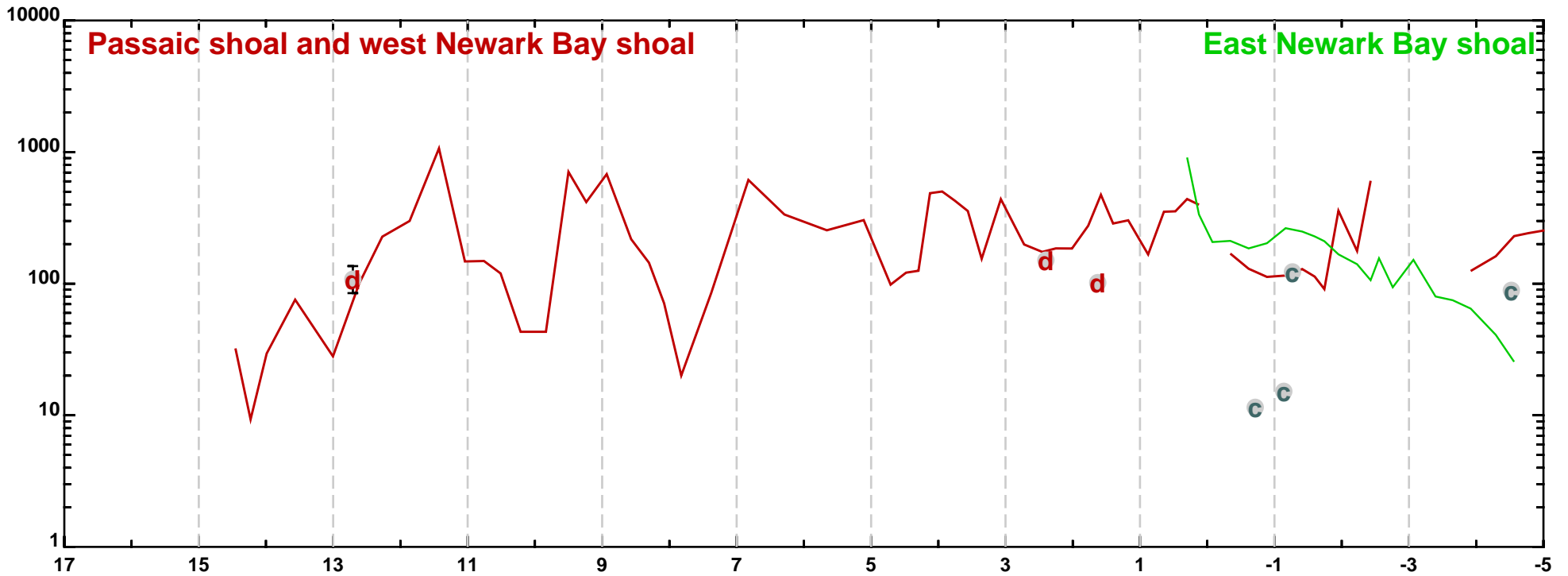
PCBs, sum of trichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

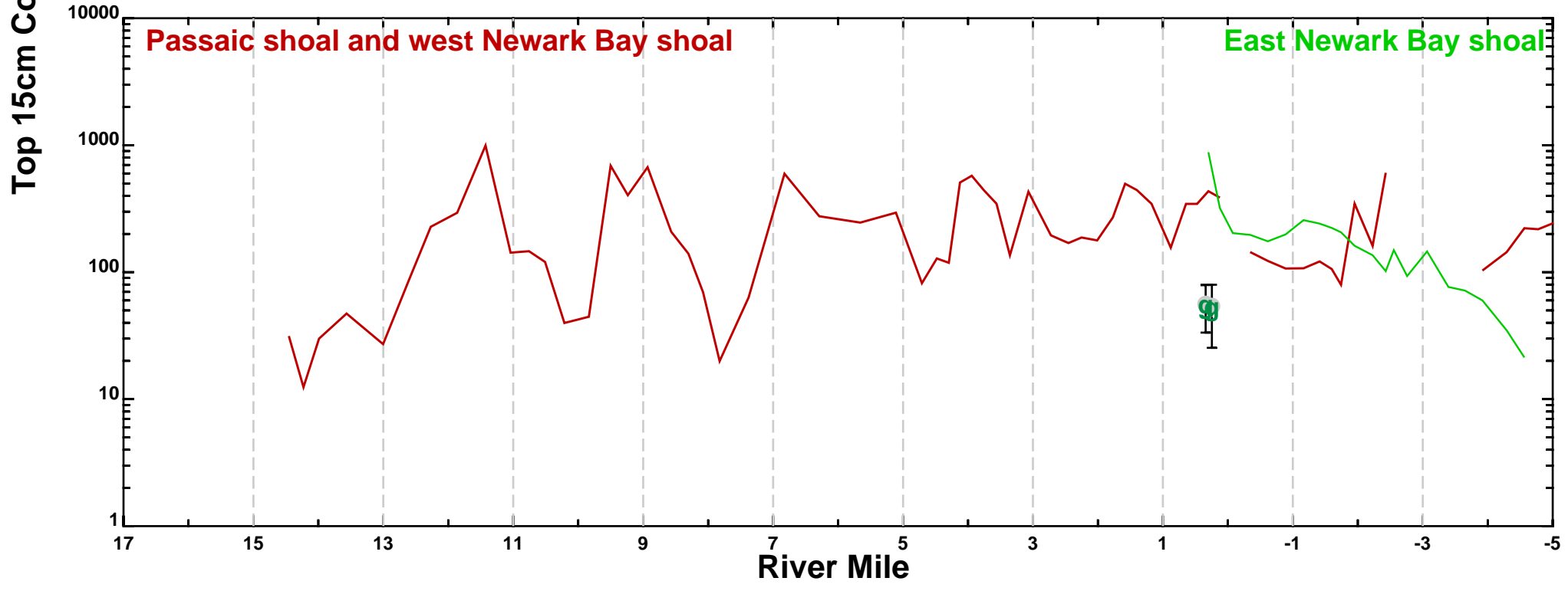
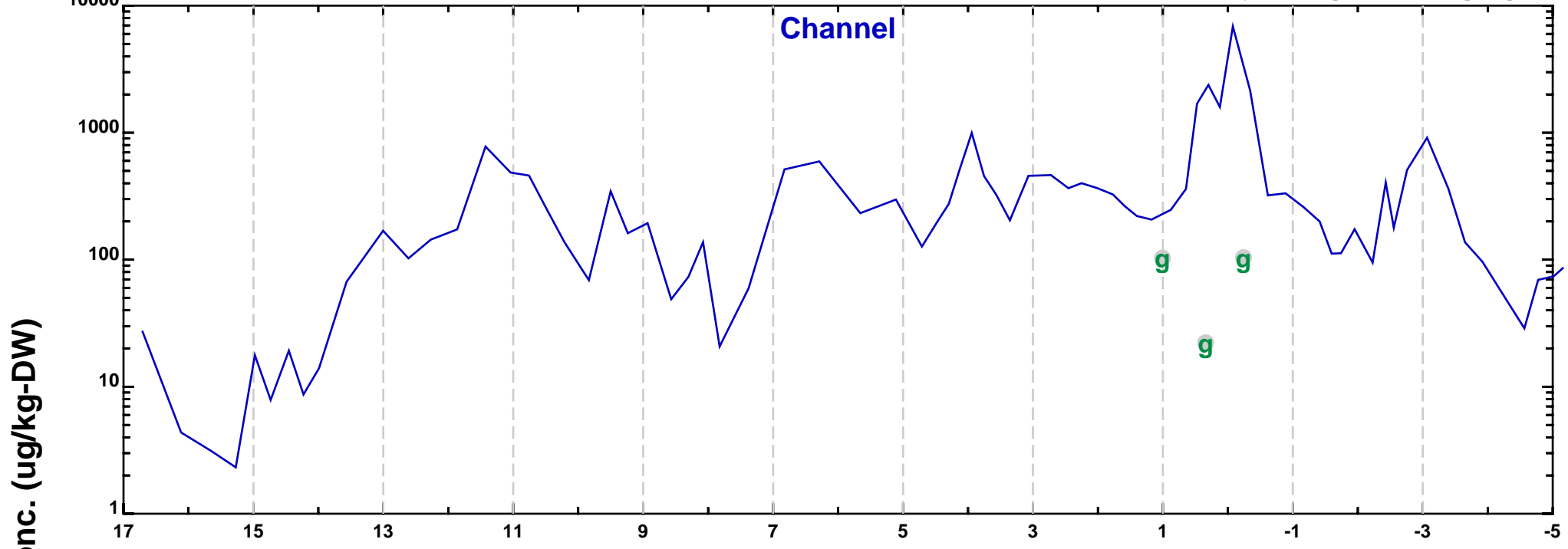
East Newark Bay shoal



River Mile

Year =2006.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)

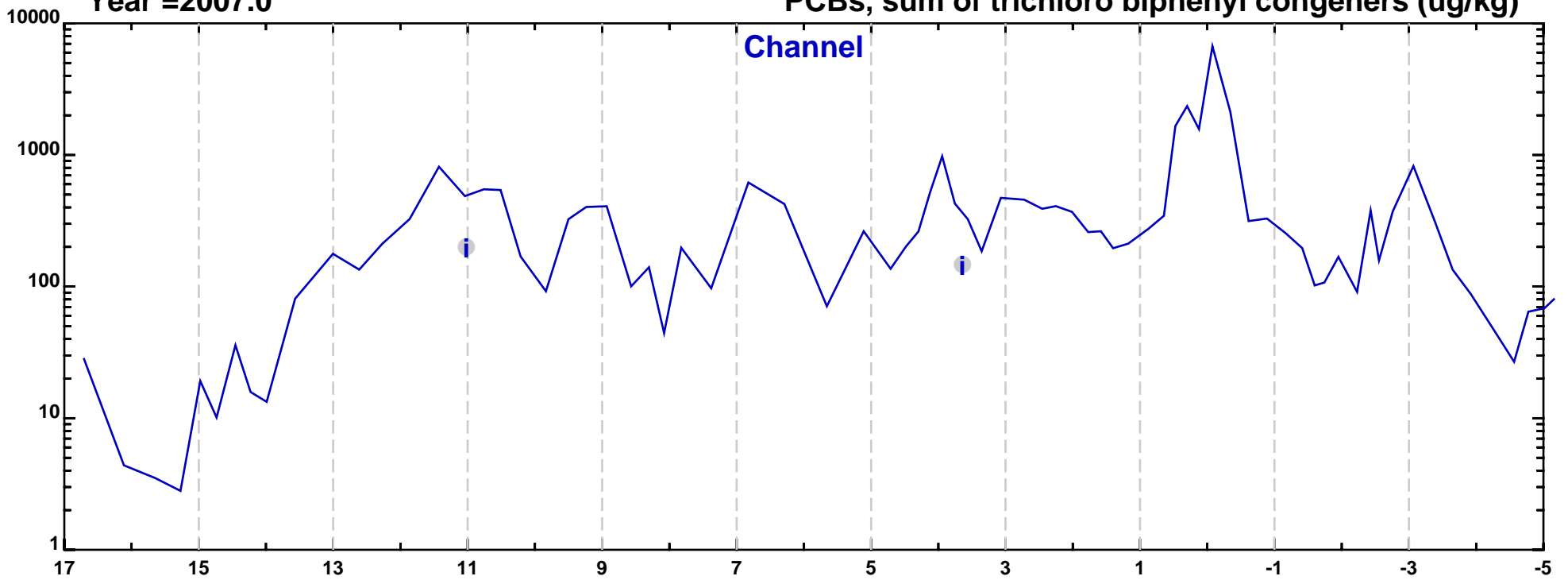




Year =2007.0

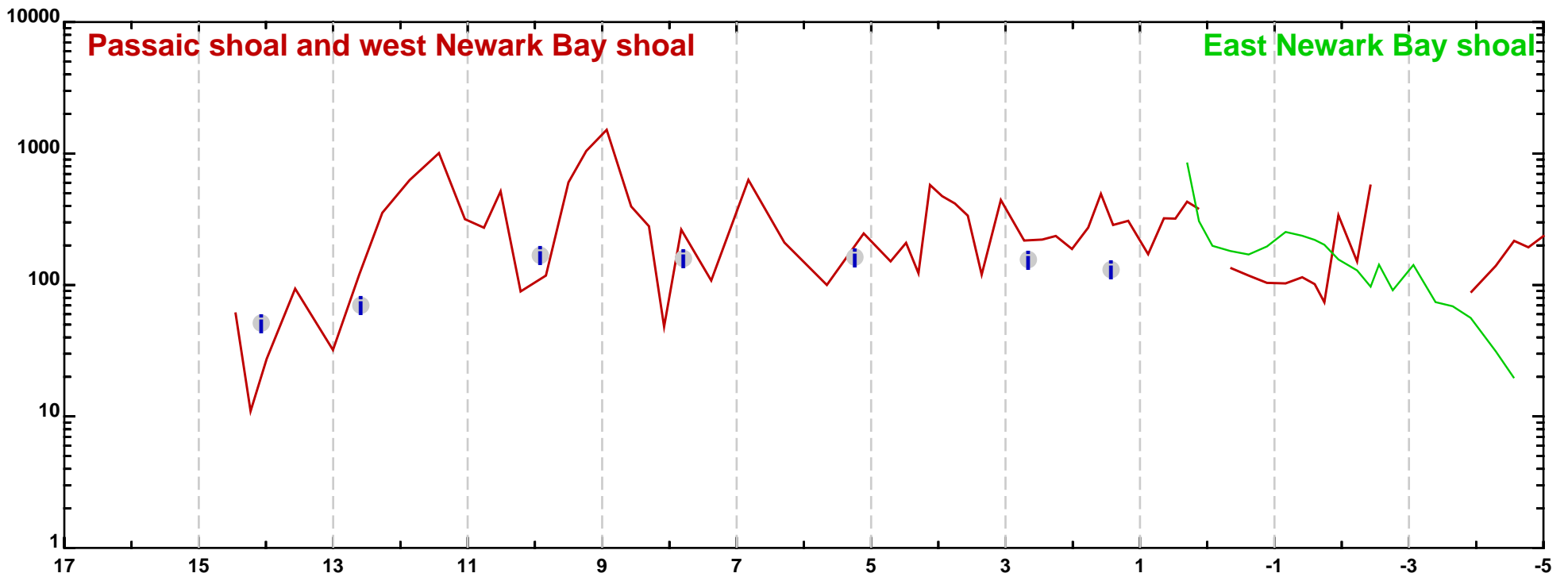
PCBs, sum of trichloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

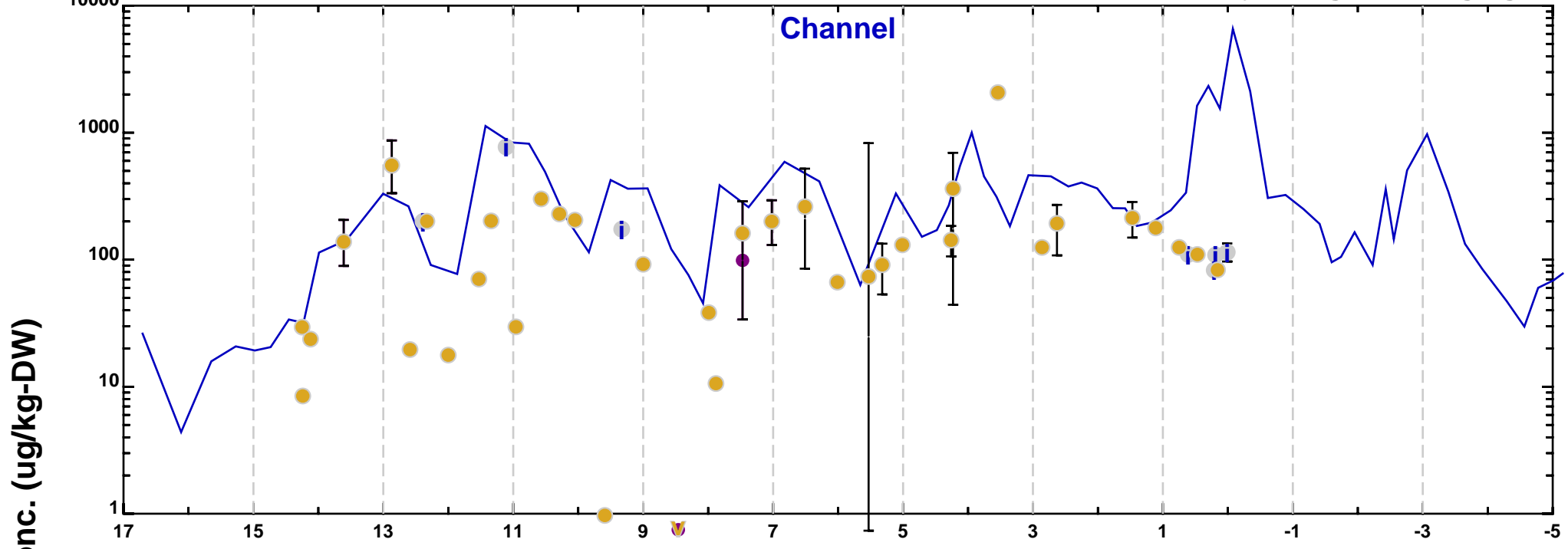
East Newark Bay shoal



River Mile

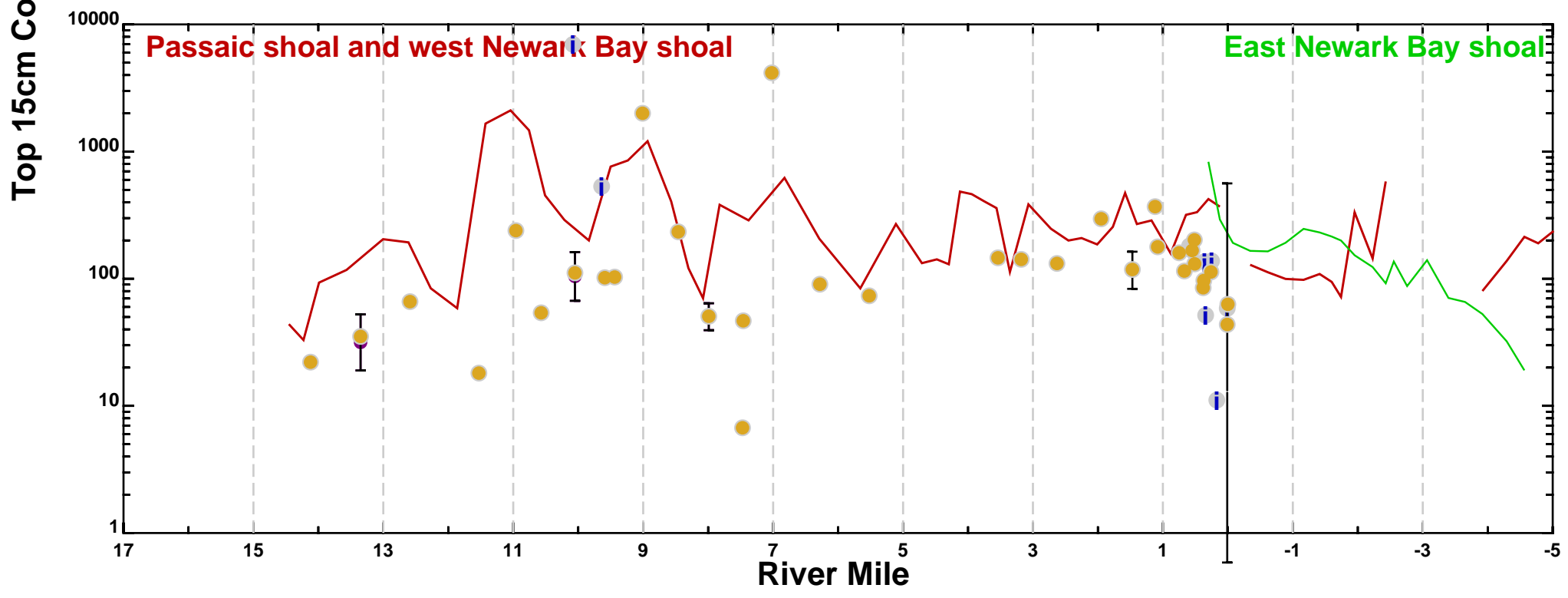
Year =2008.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

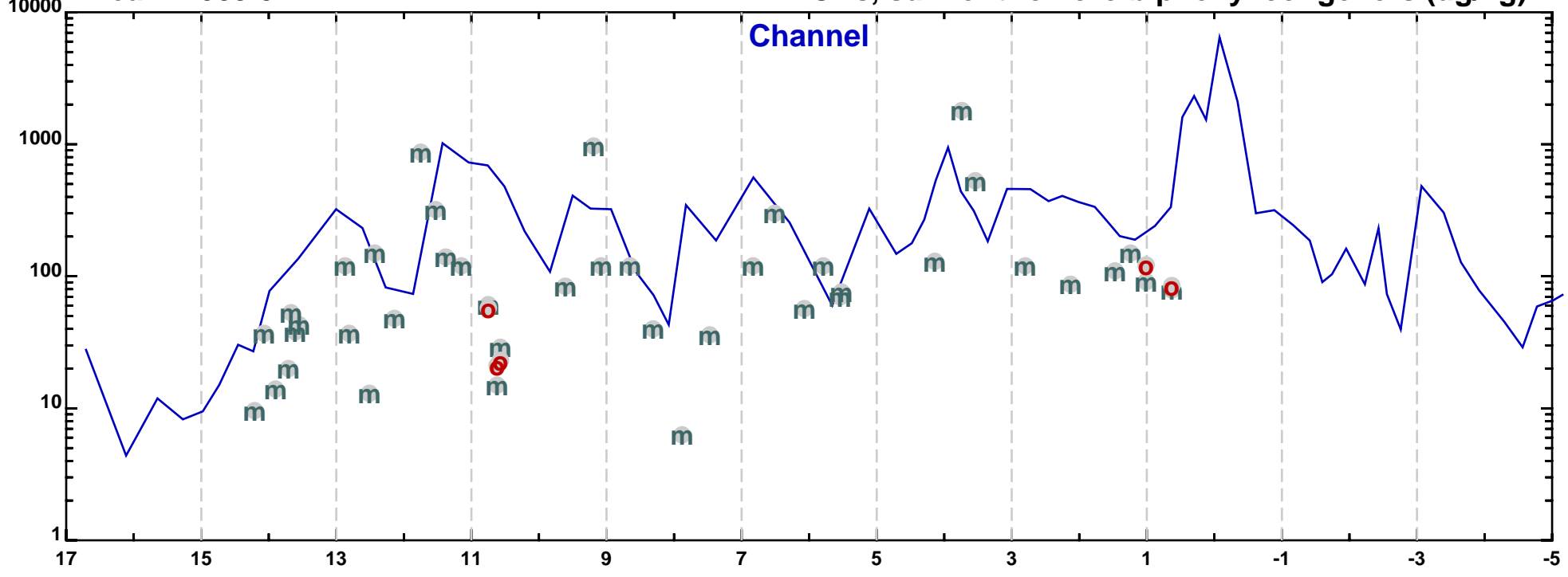


Year =2009.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)

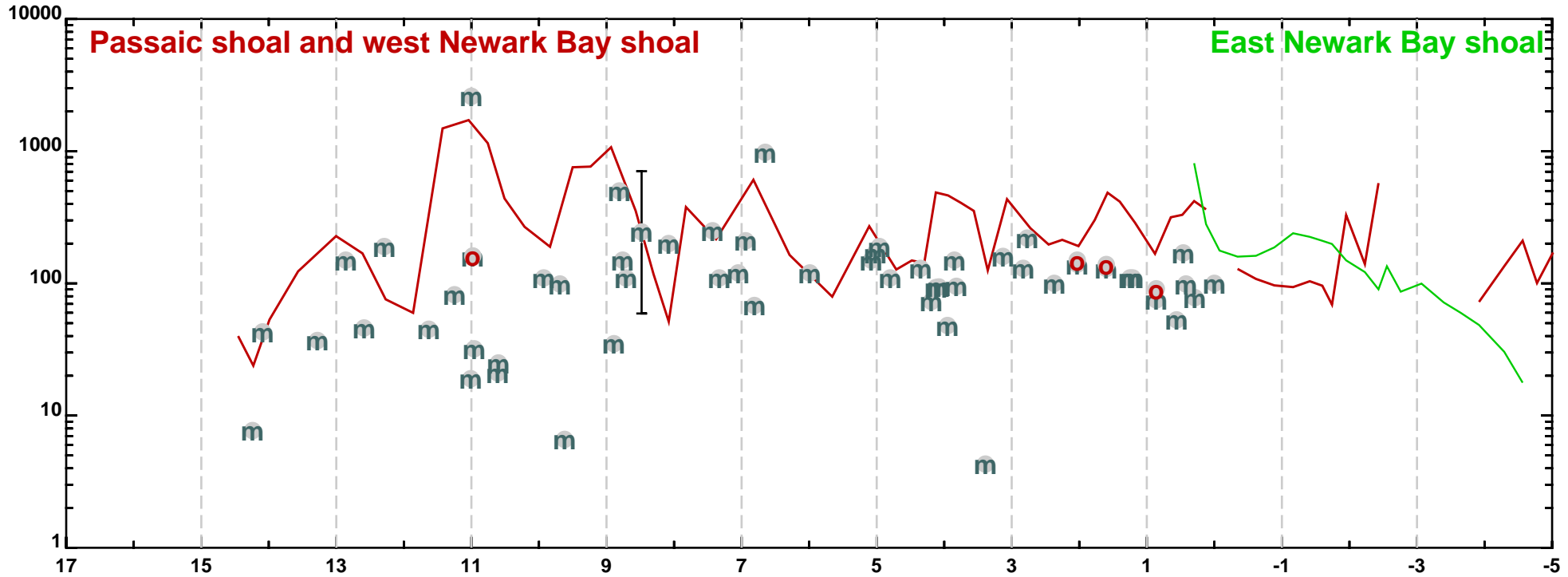
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

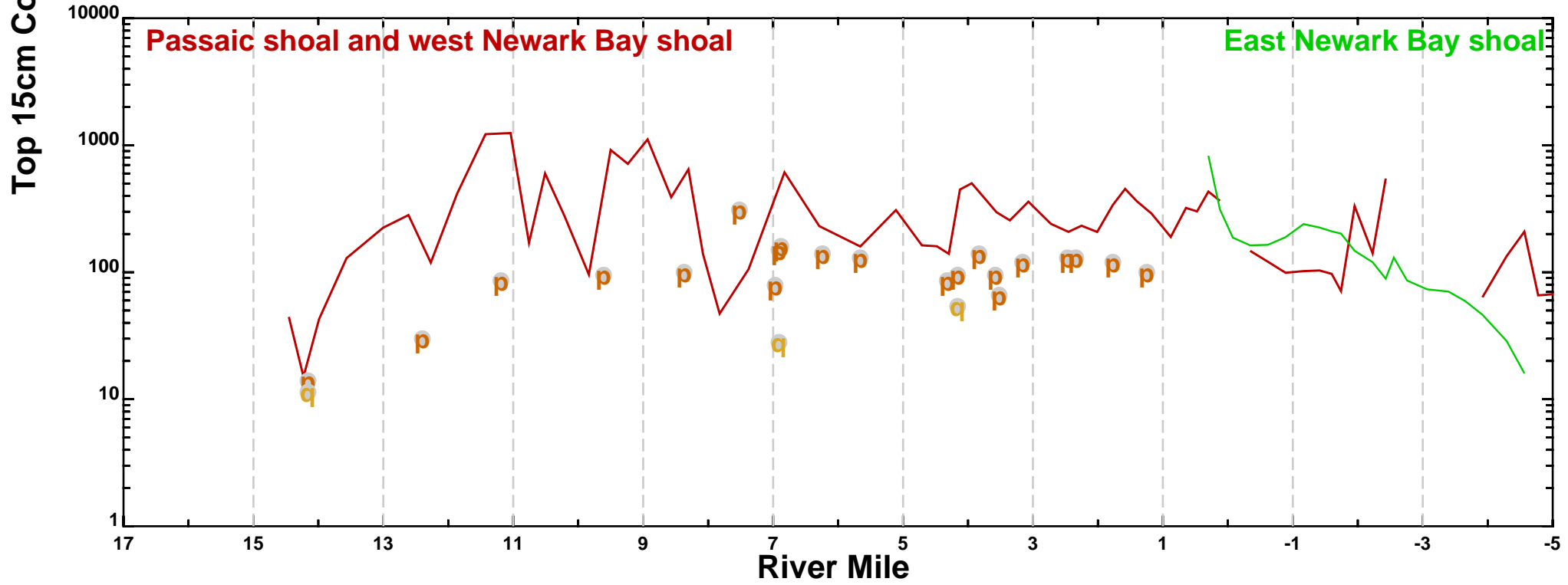
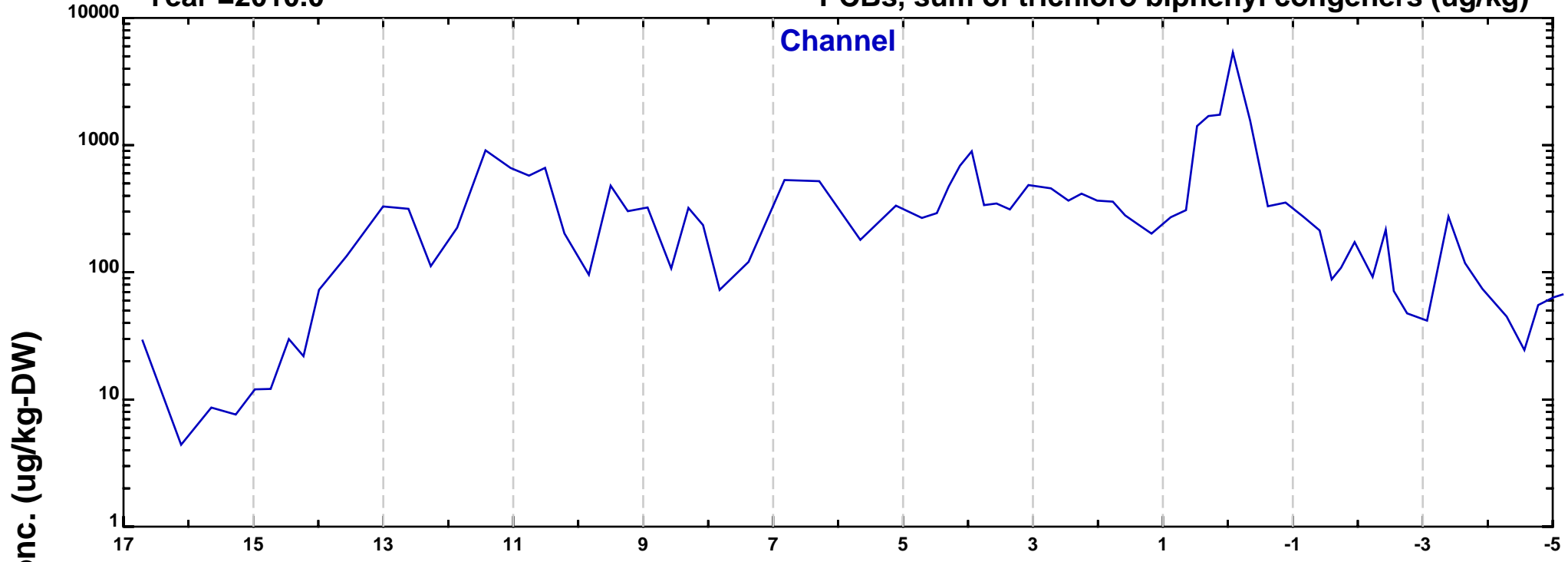
East Newark Bay shoal

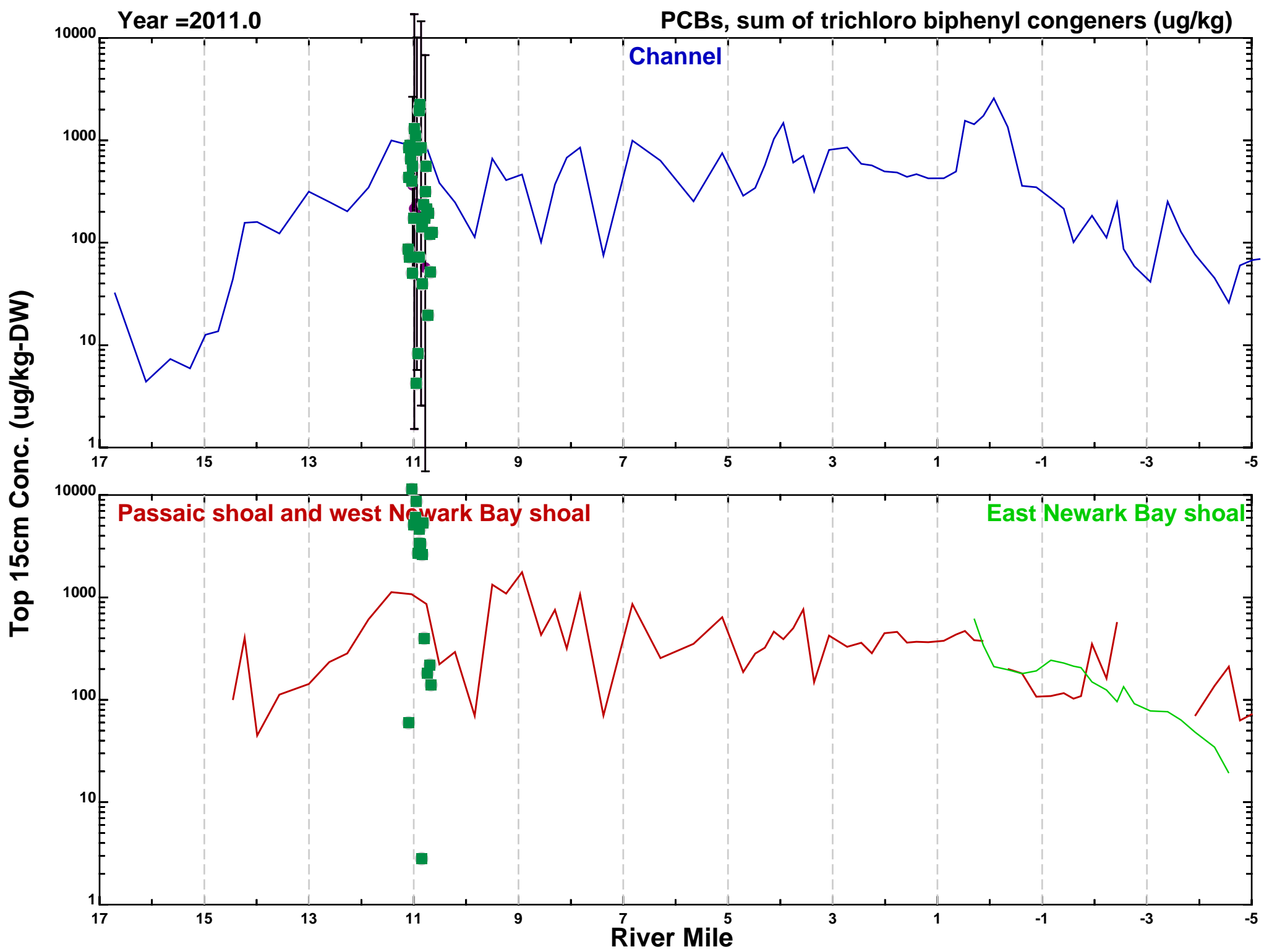


River Mile

Year =2010.0

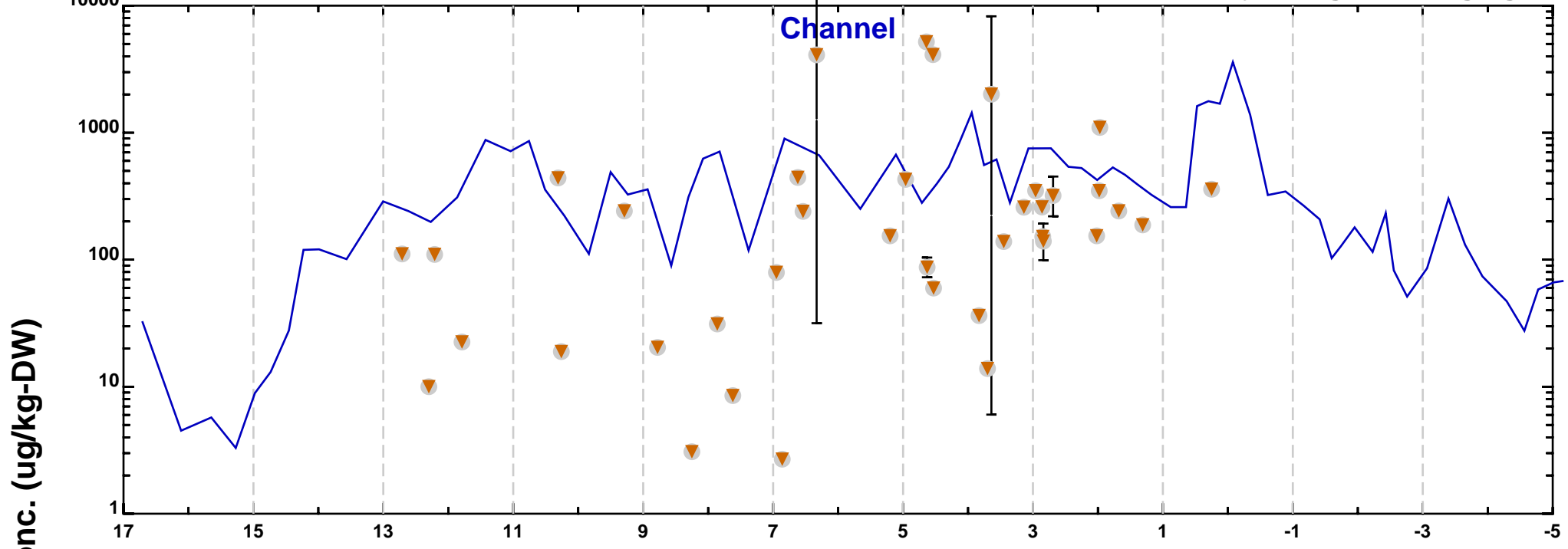
PCBs, sum of trichloro biphenyl congeners (ug/kg)





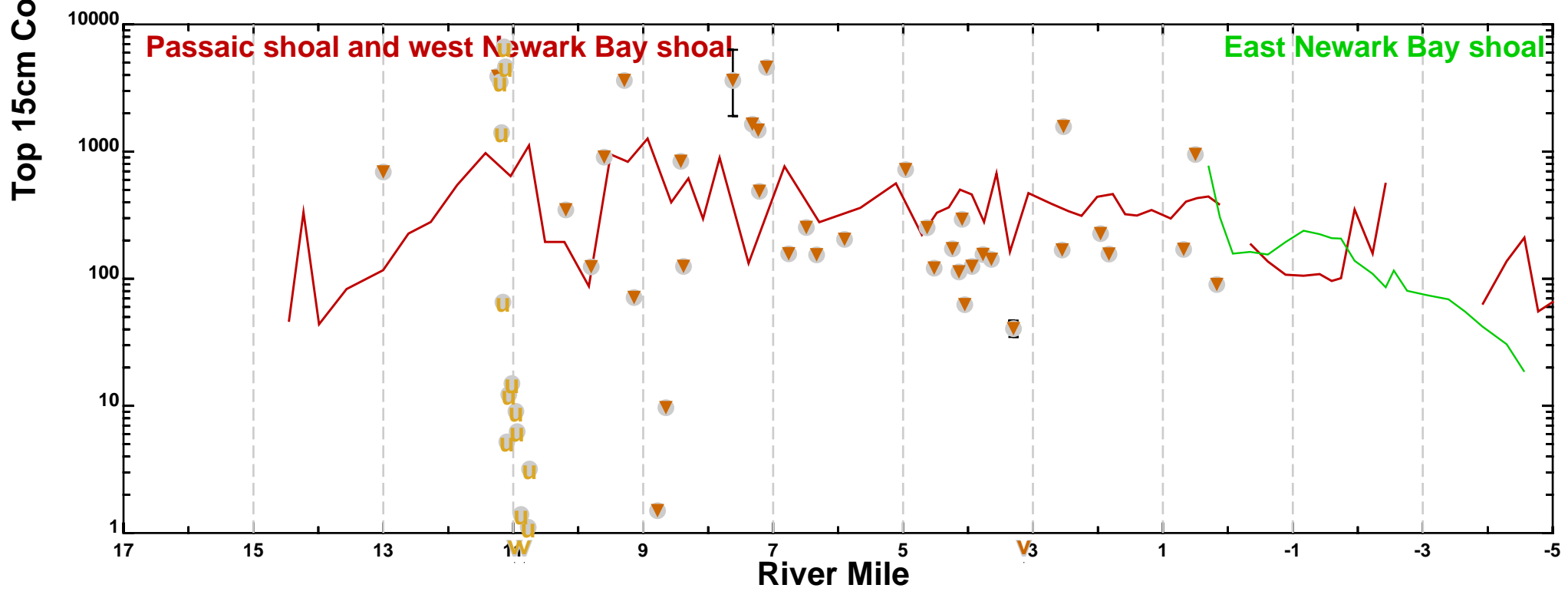
Year =2012.0

PCBs, sum of trichloro biphenyl congeners (ug/kg)



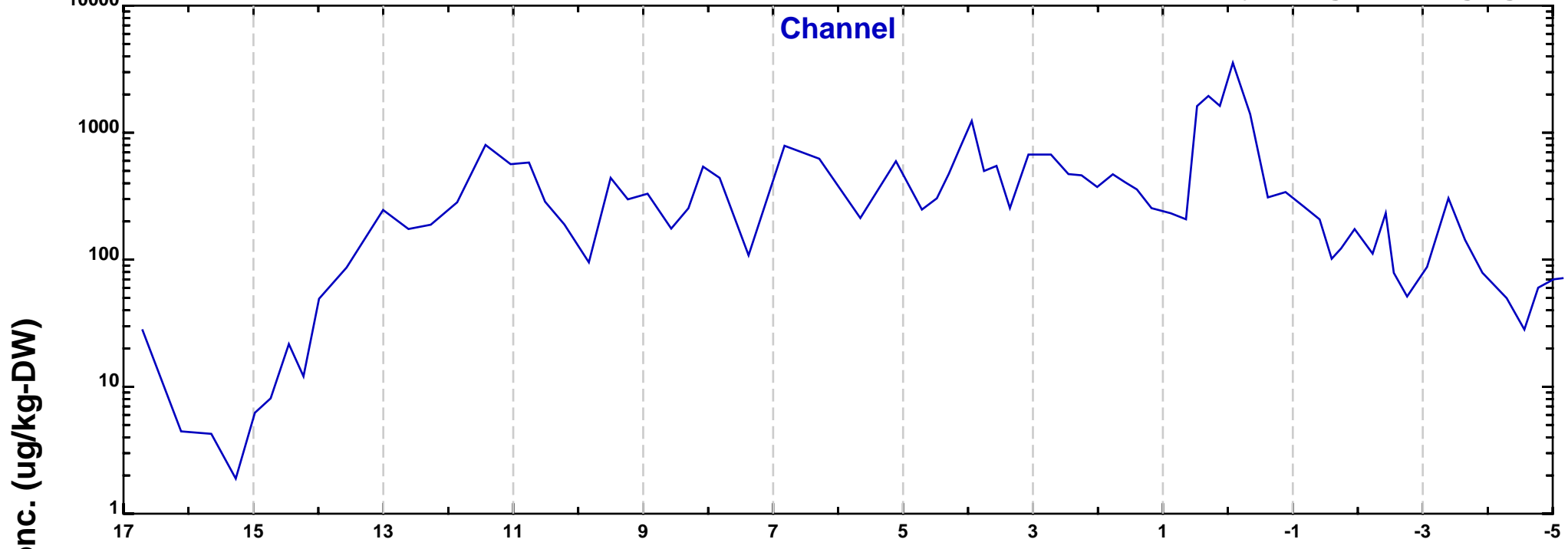
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



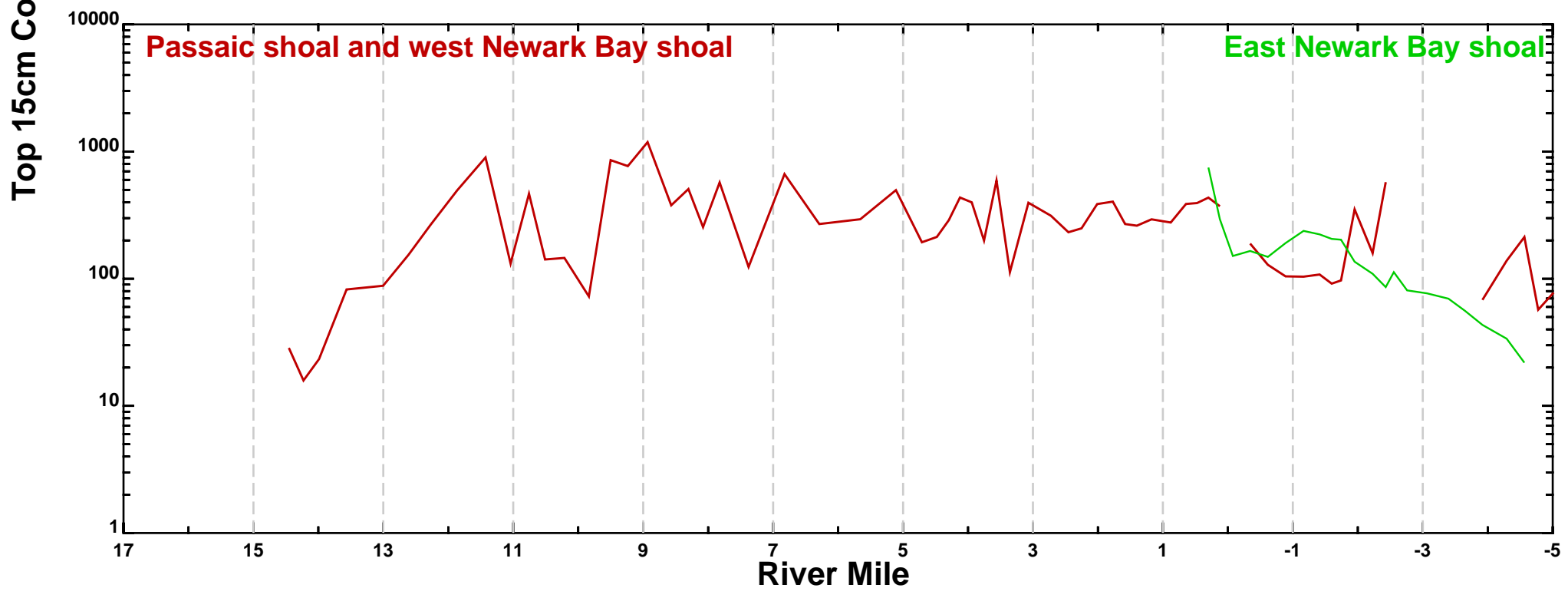
Year =2013.0

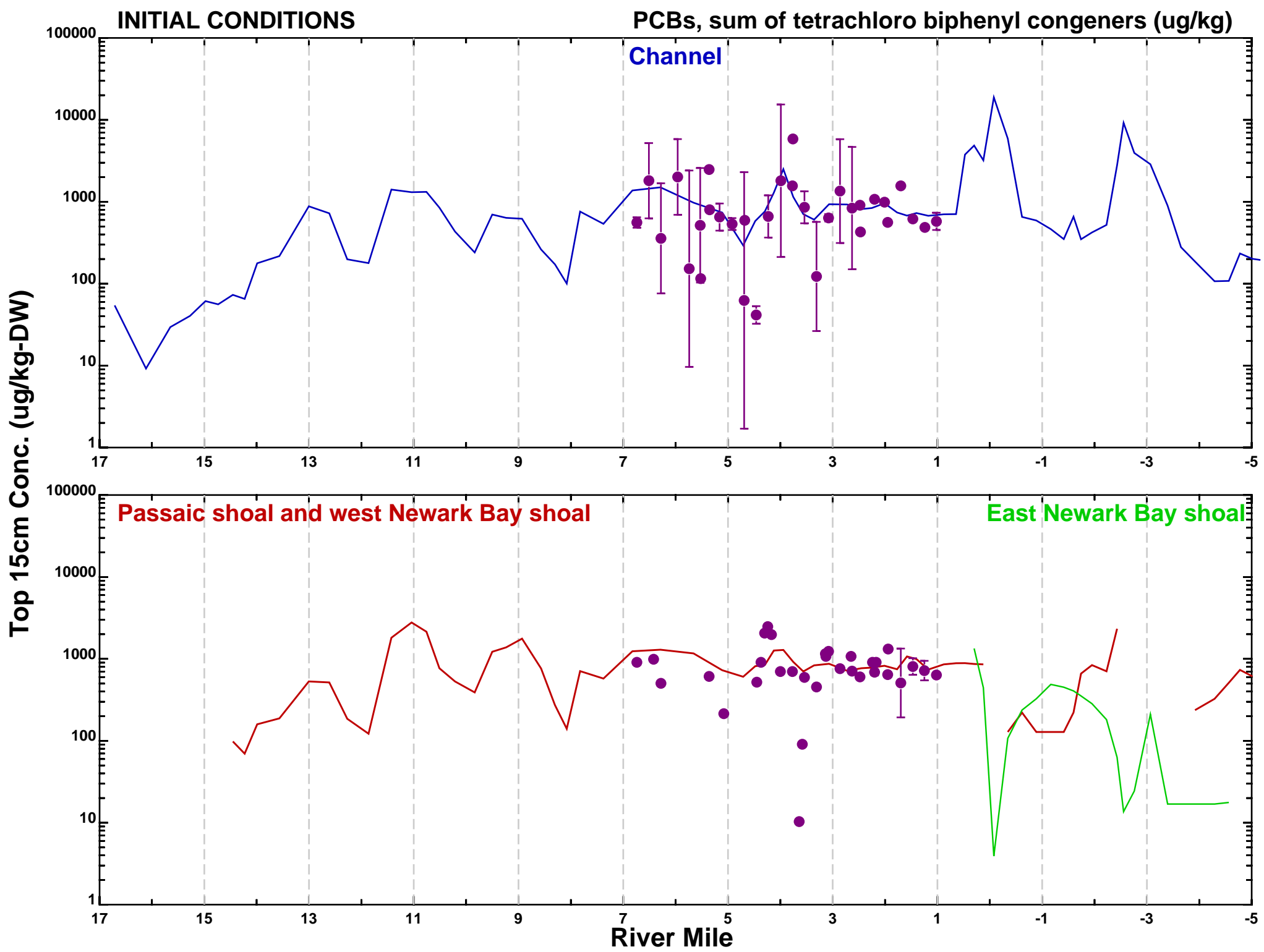
PCBs, sum of trichloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

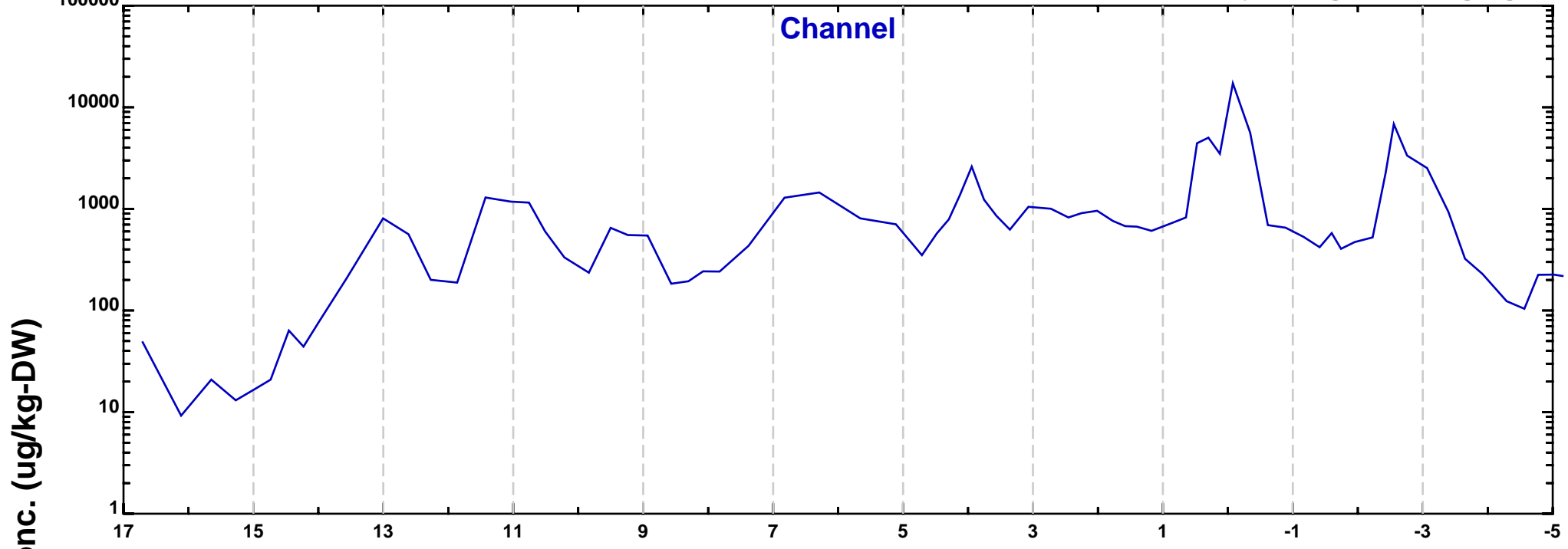






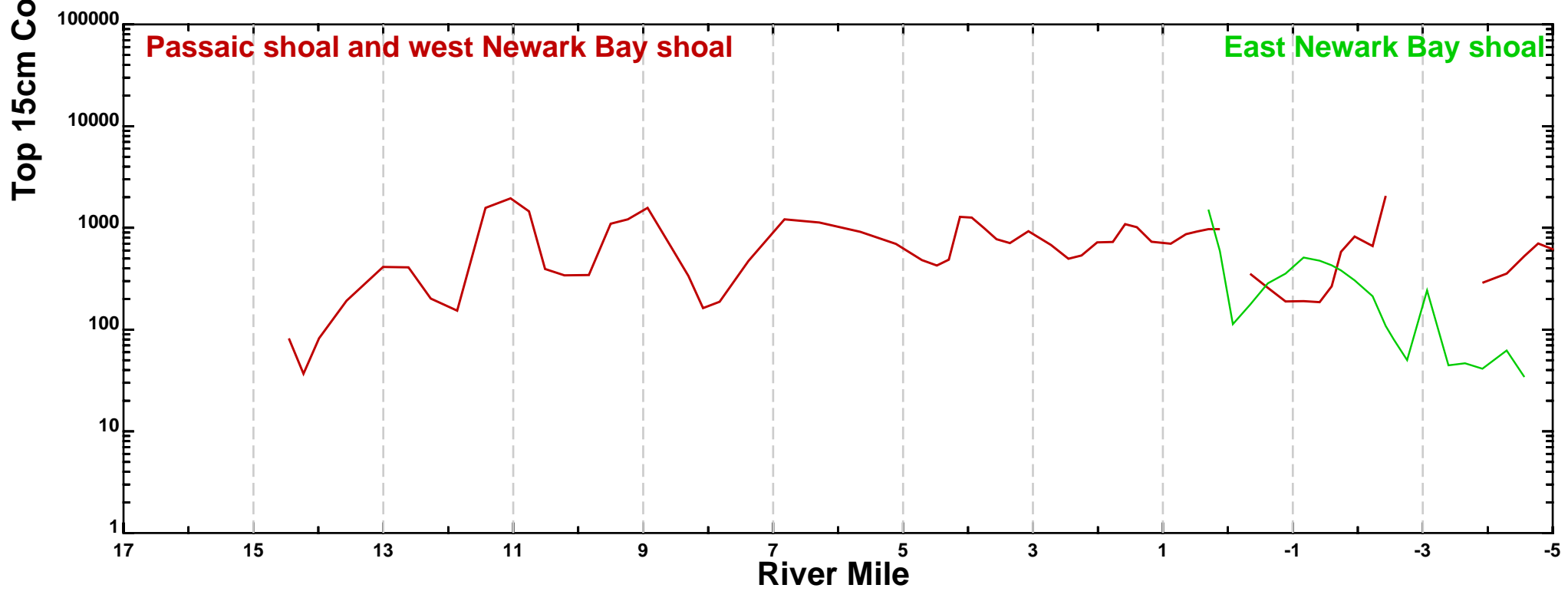
Year =1996.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



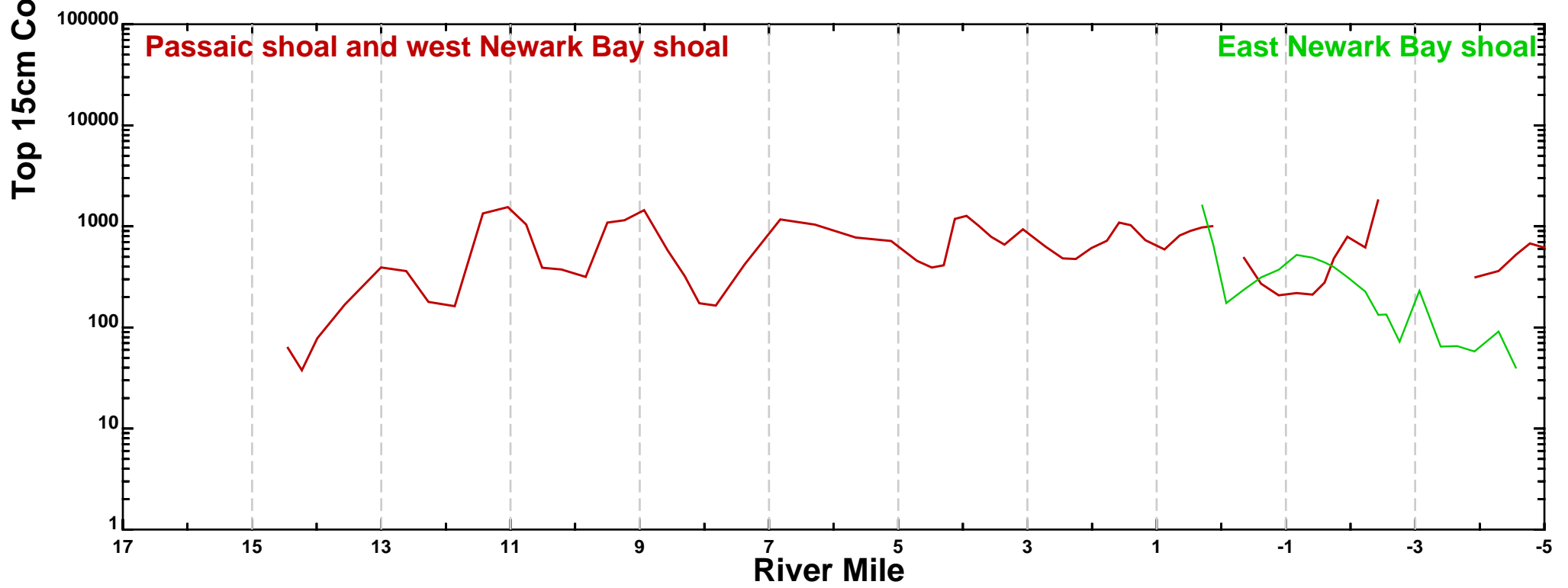
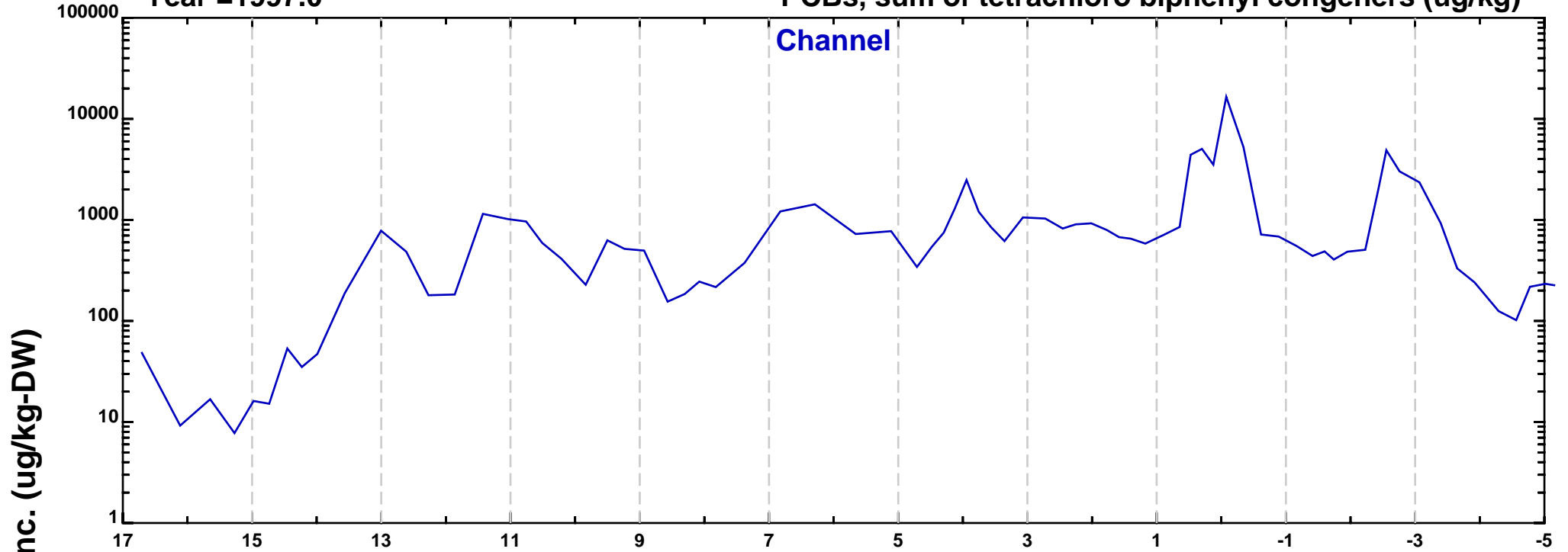
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



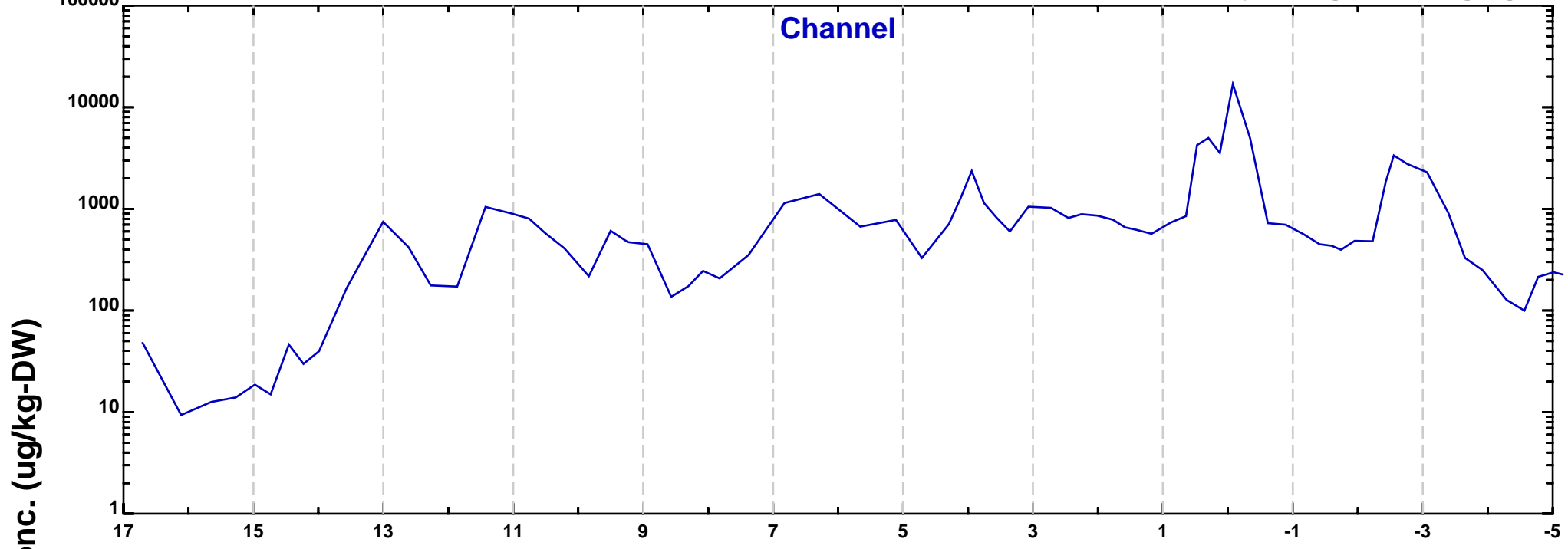
Year =1997.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Year =1998.0

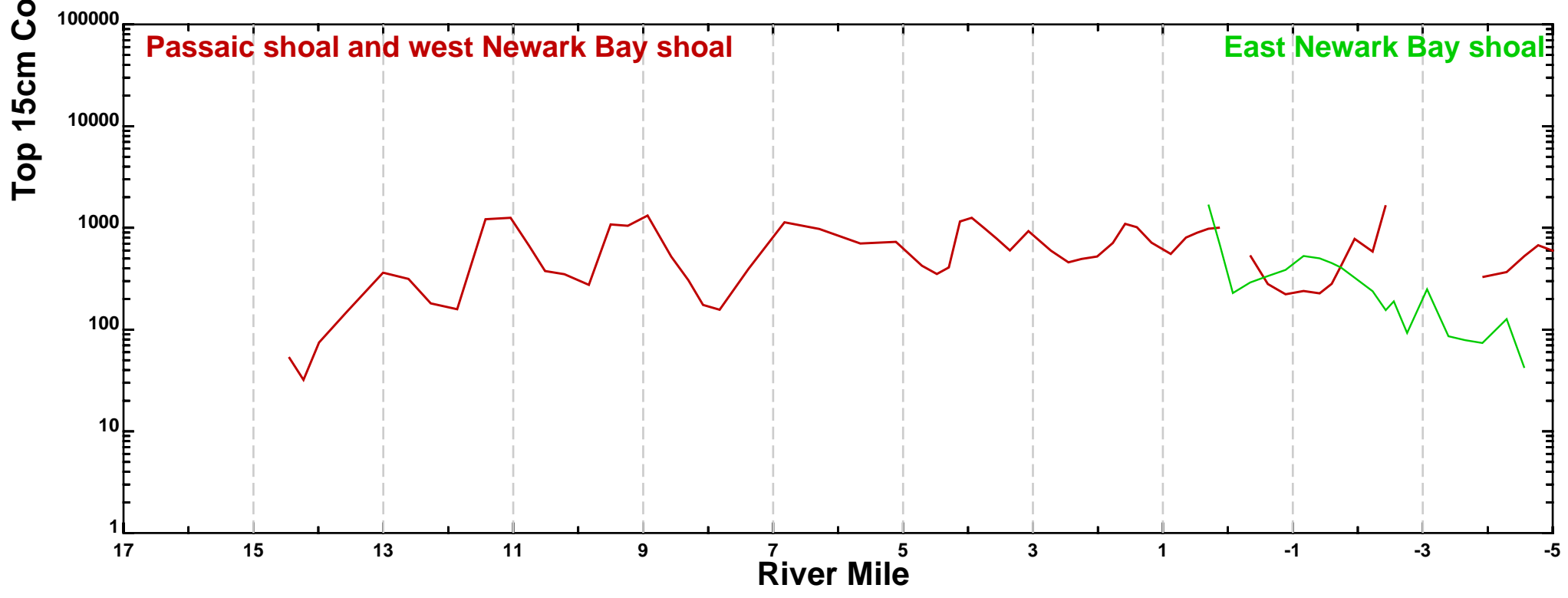
PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

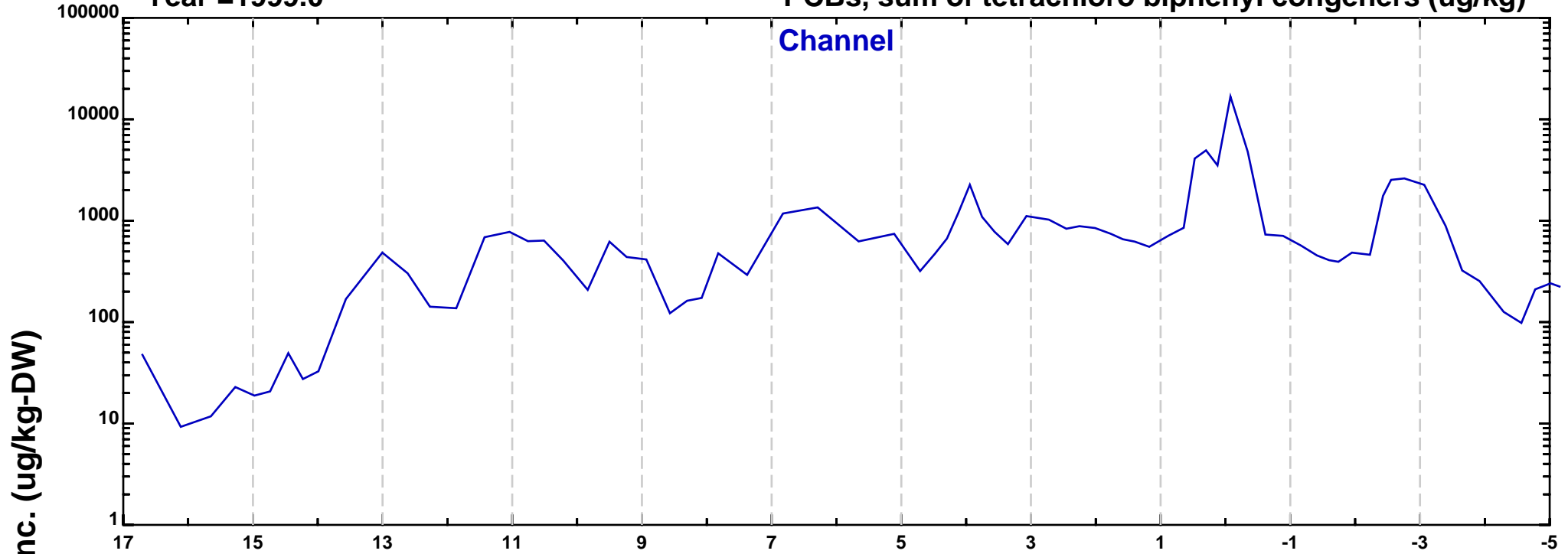
East Newark Bay shoal



River Mile

Year =1999.0

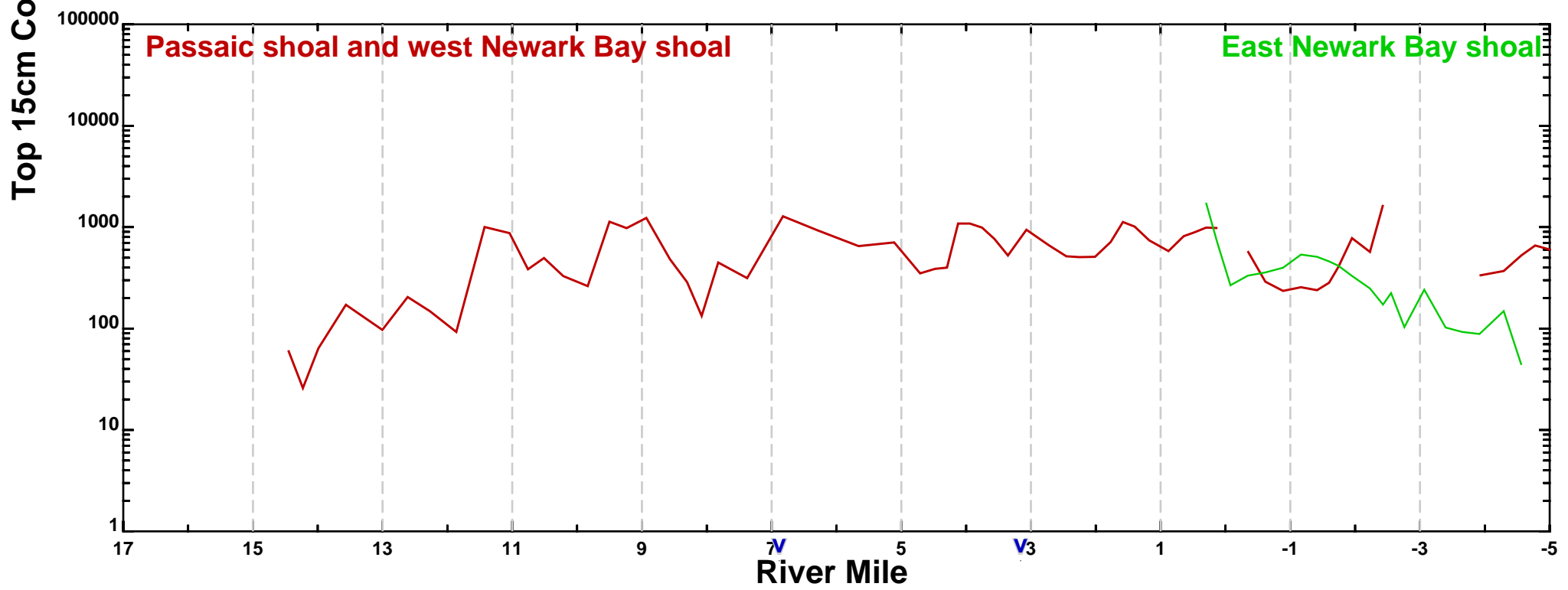
PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

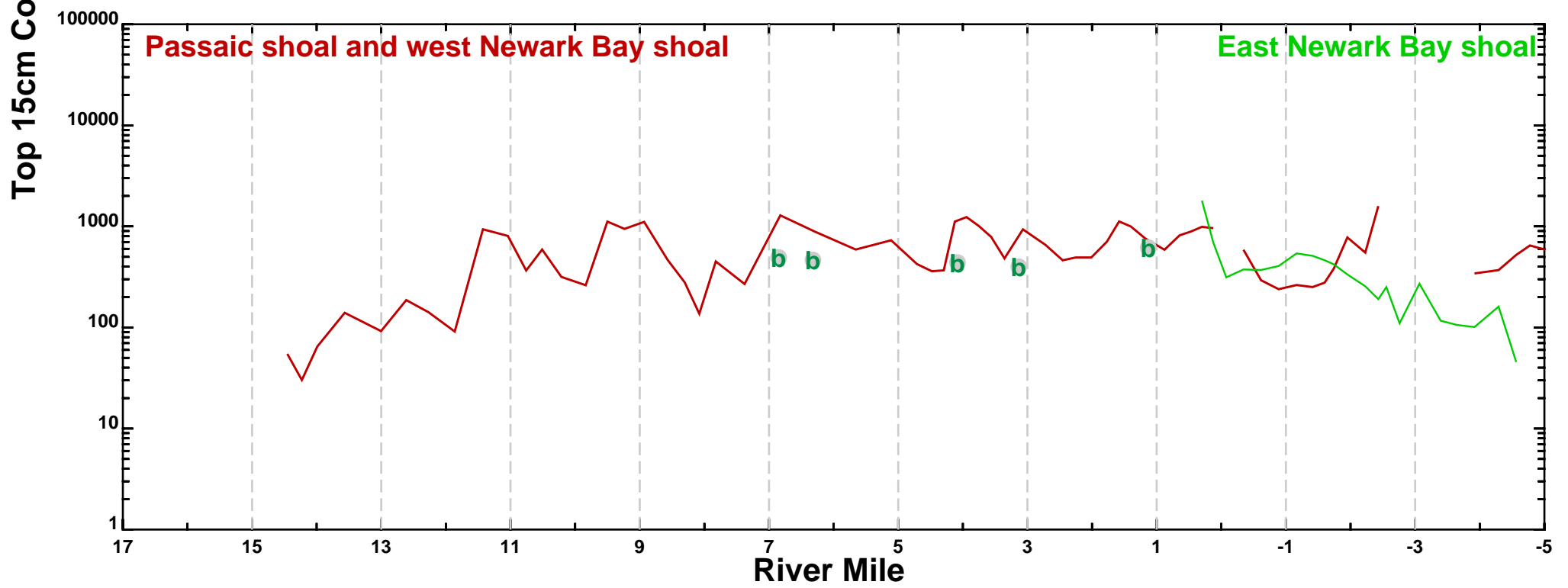
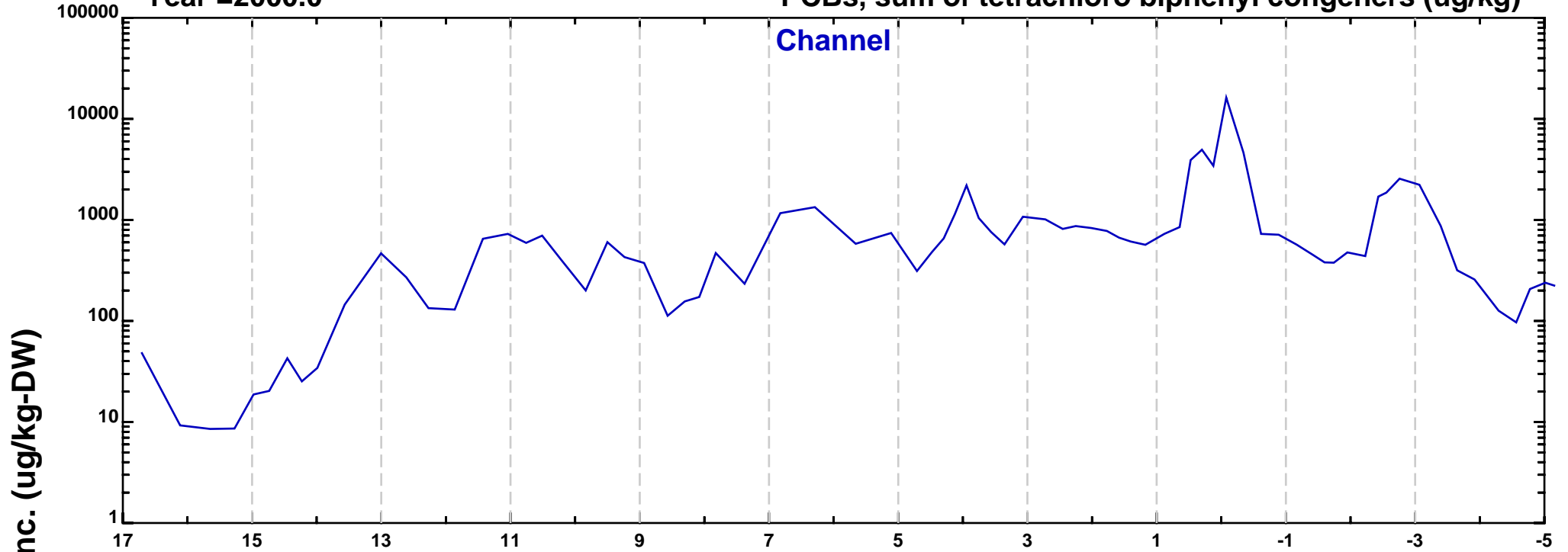
East Newark Bay shoal



River Mile

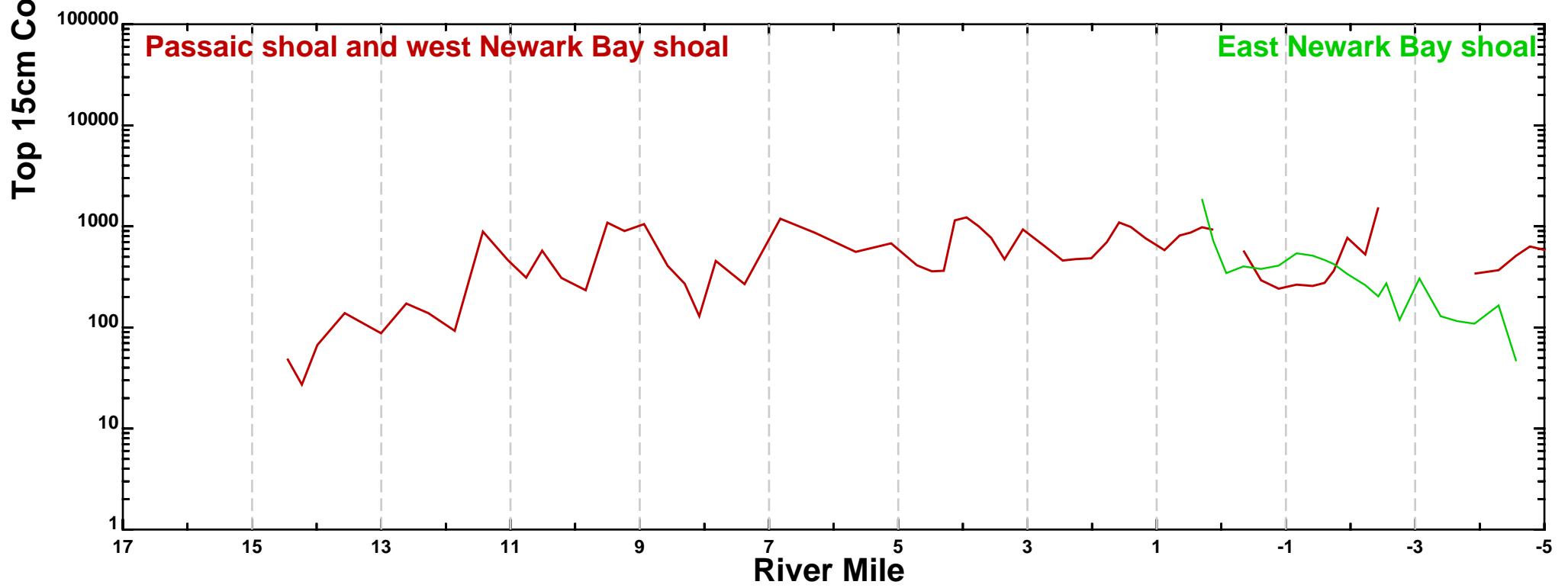
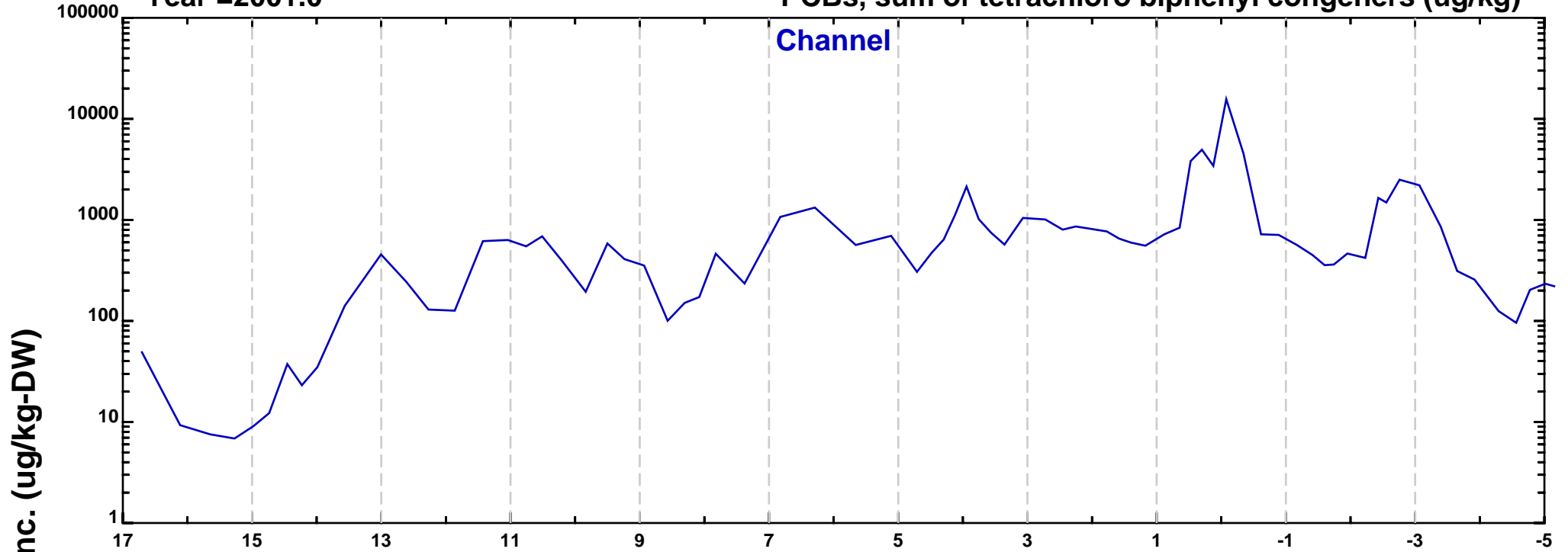
Year =2000.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



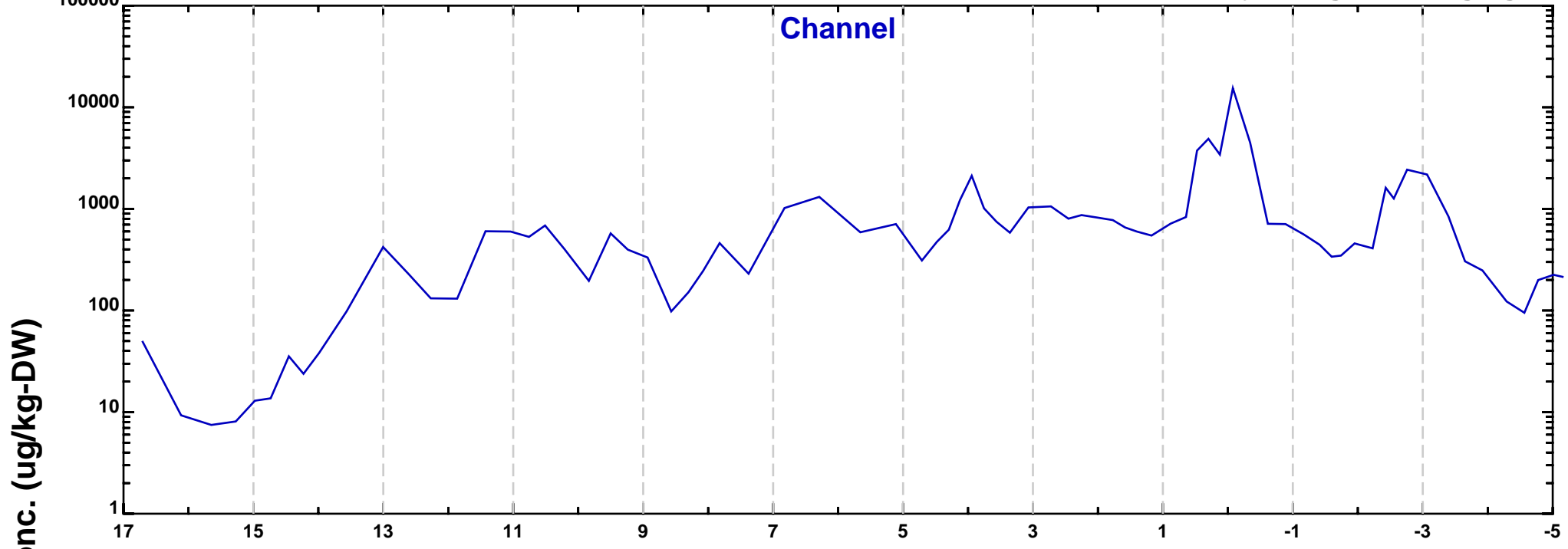
Year =2001.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Year =2002.0

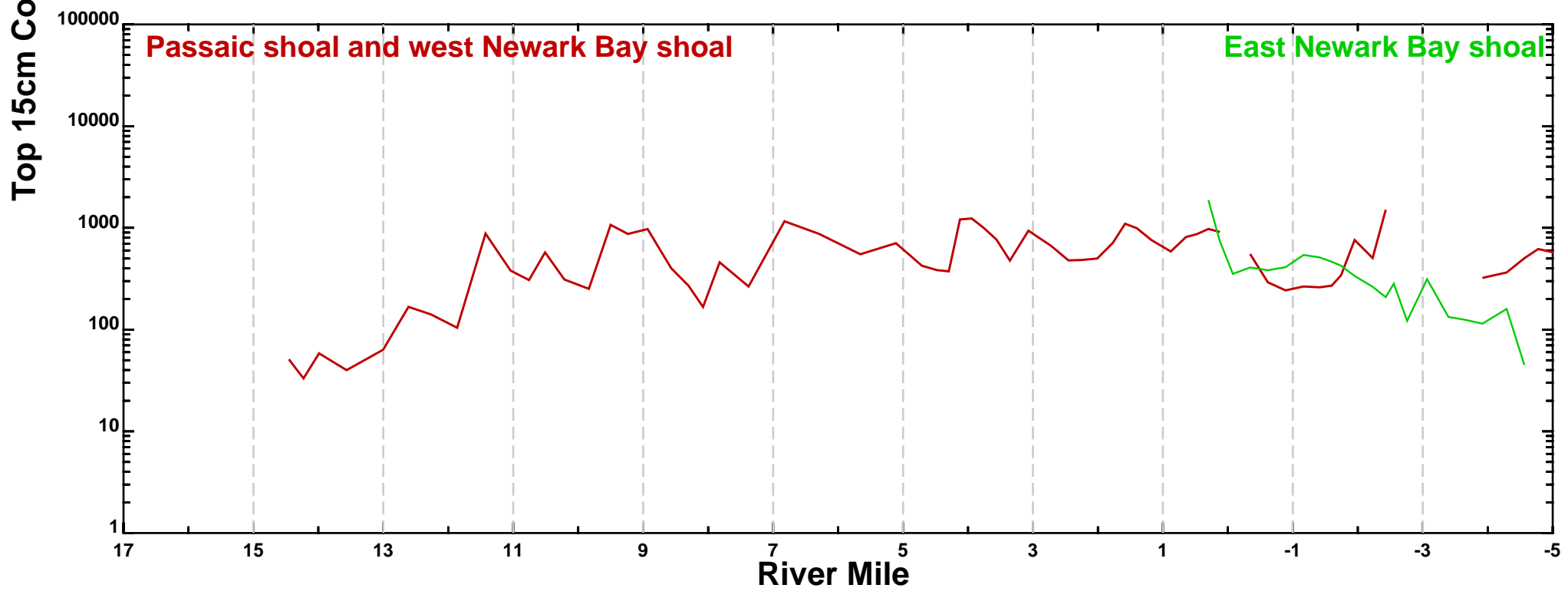
PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

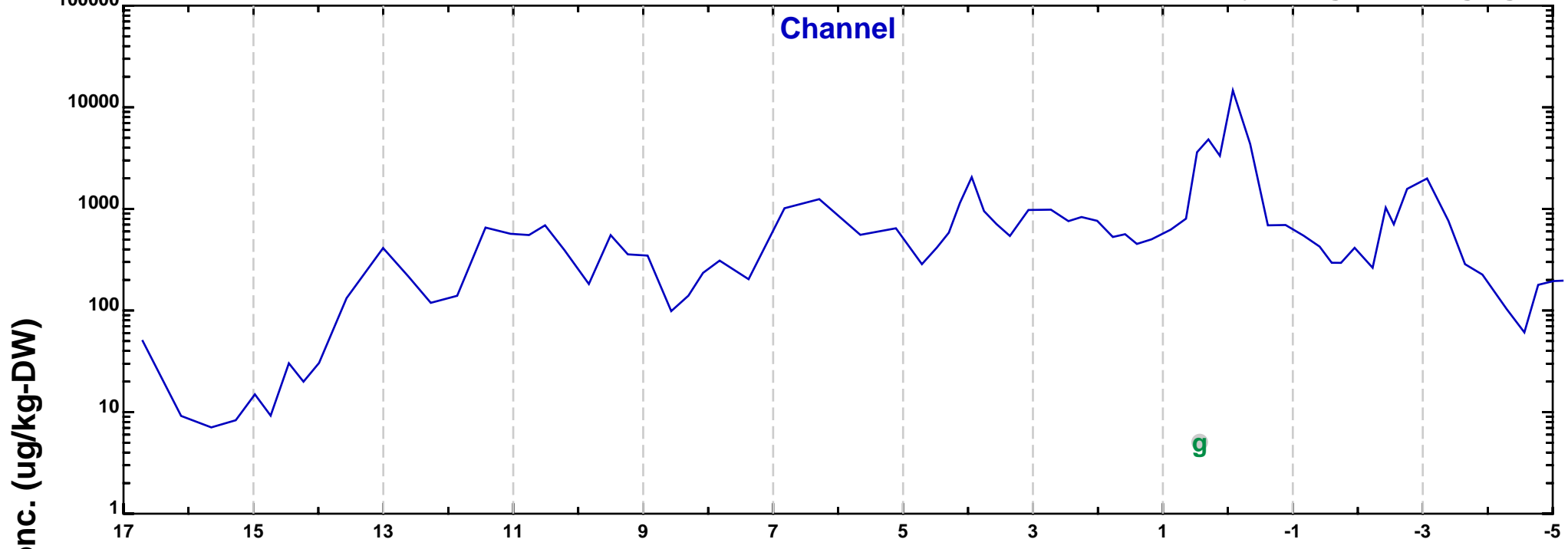
East Newark Bay shoal



River Mile

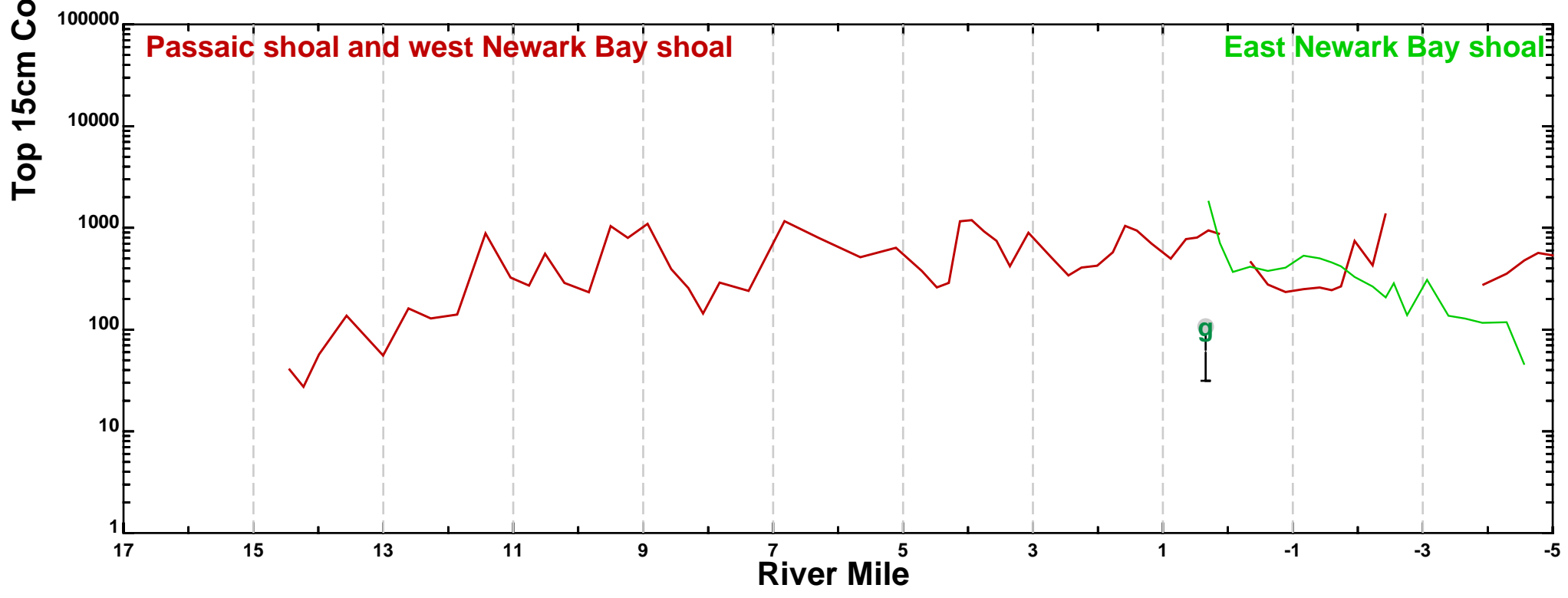
Year =2003.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

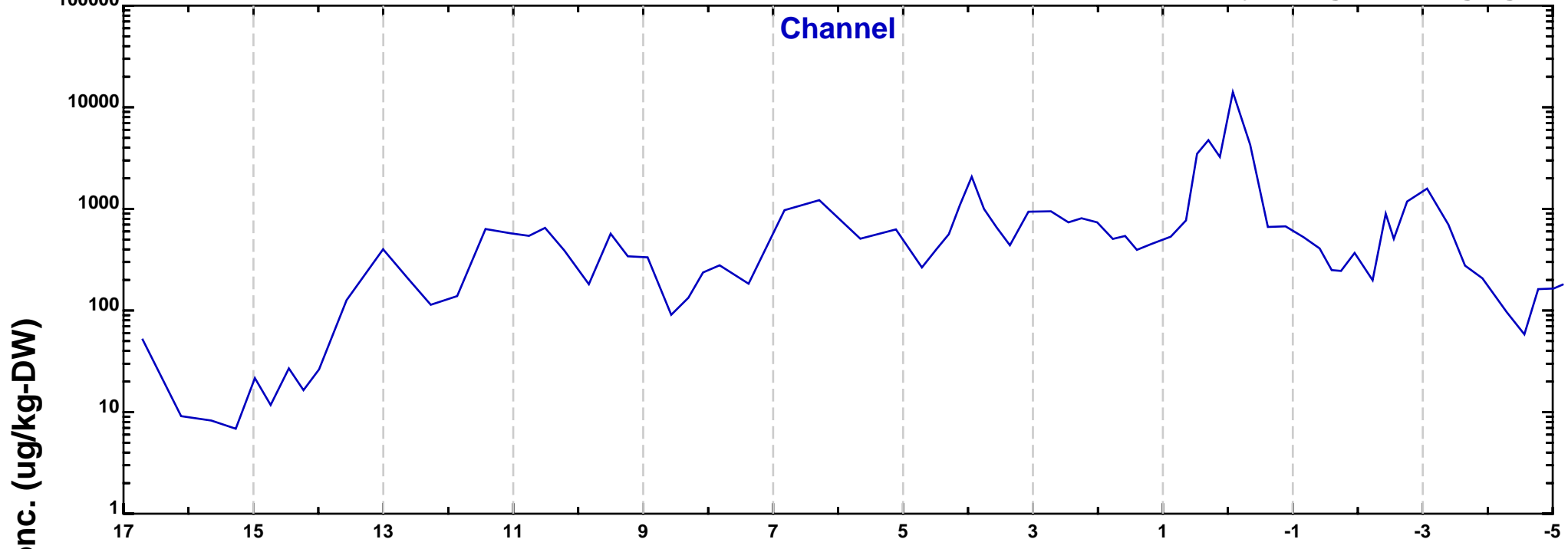


River Mile



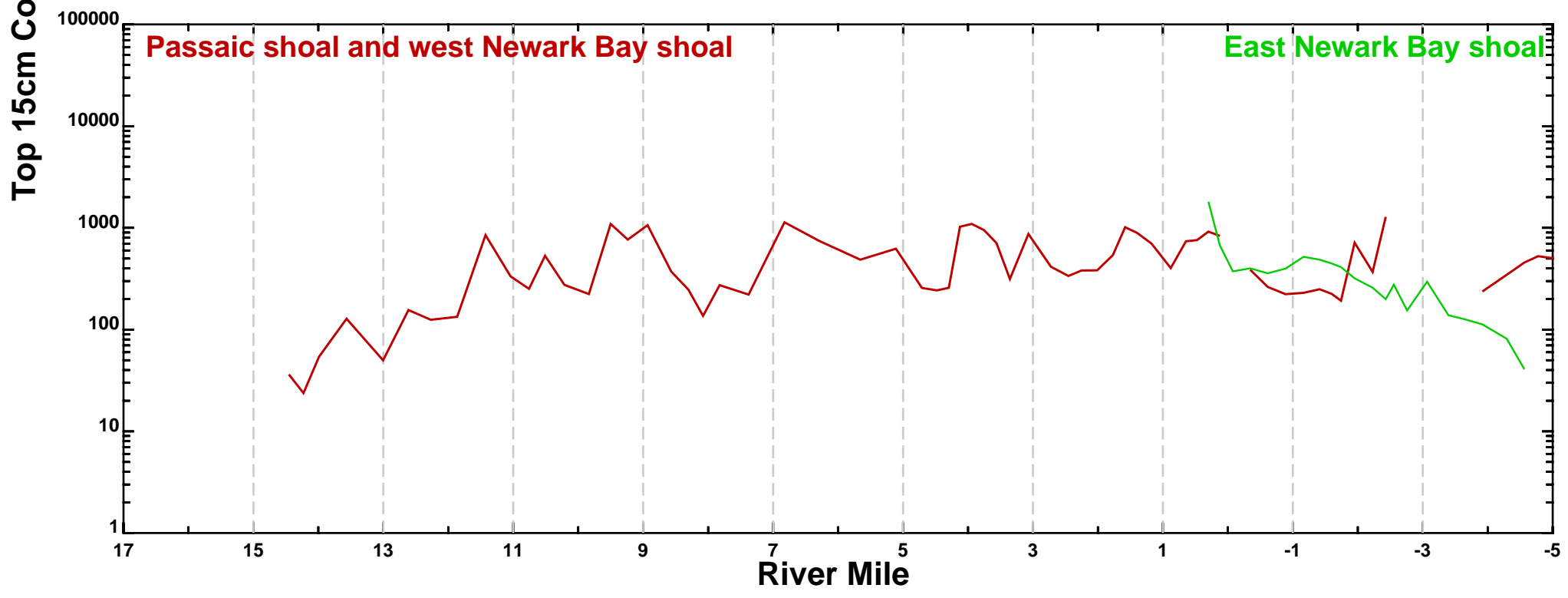
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PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



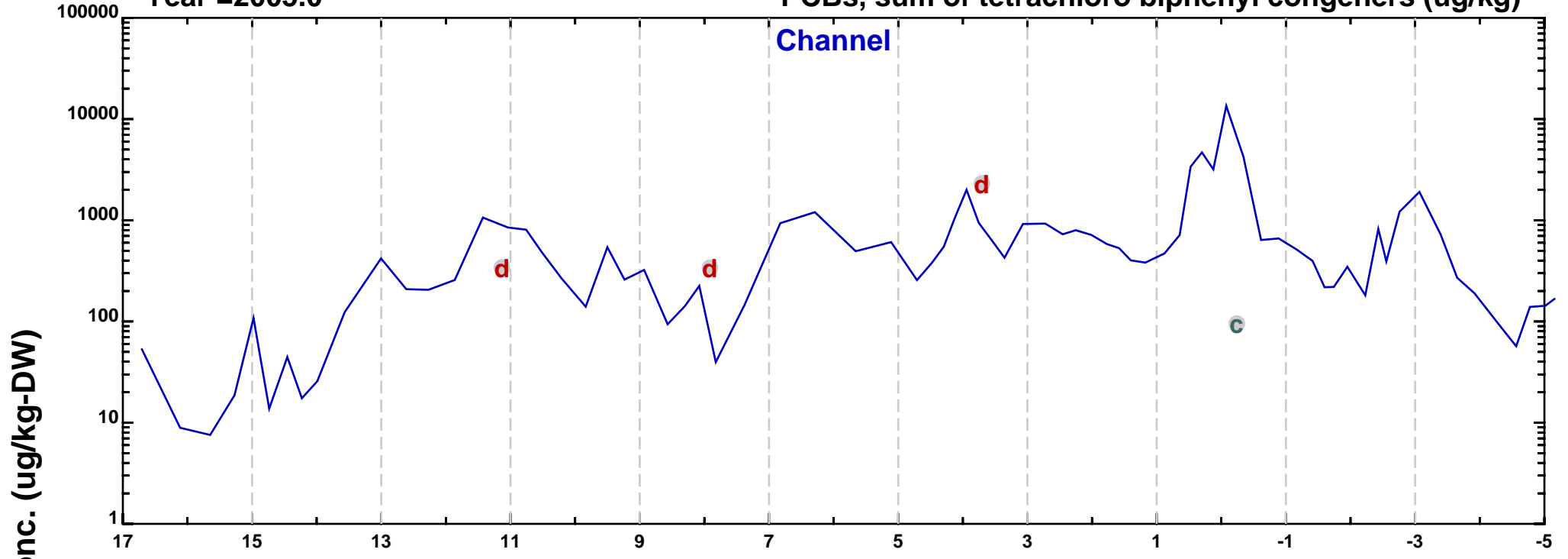
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



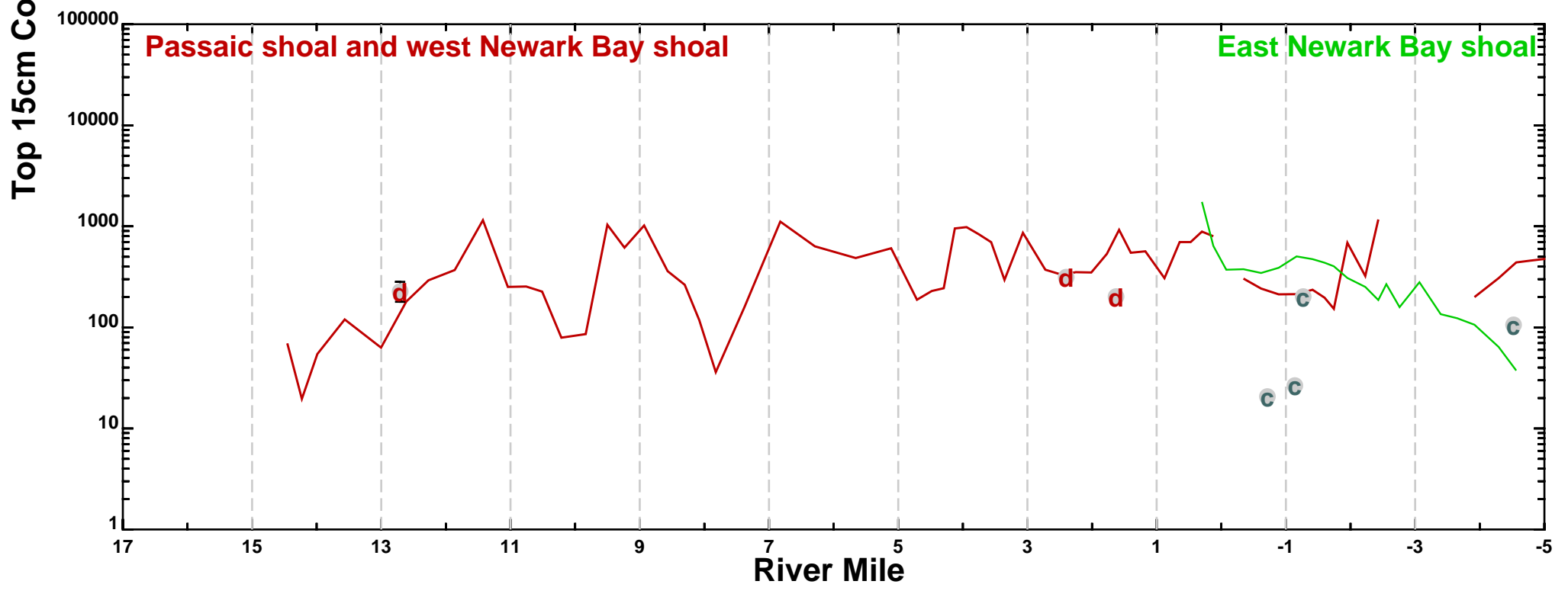
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PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

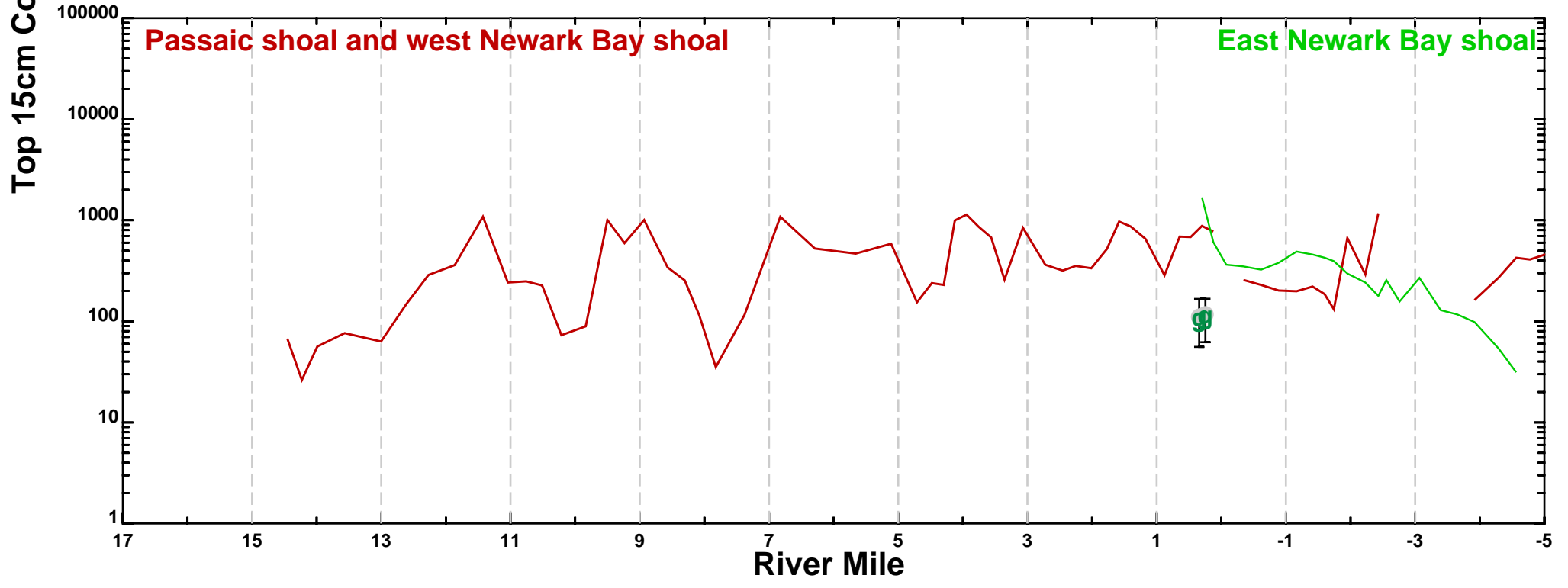
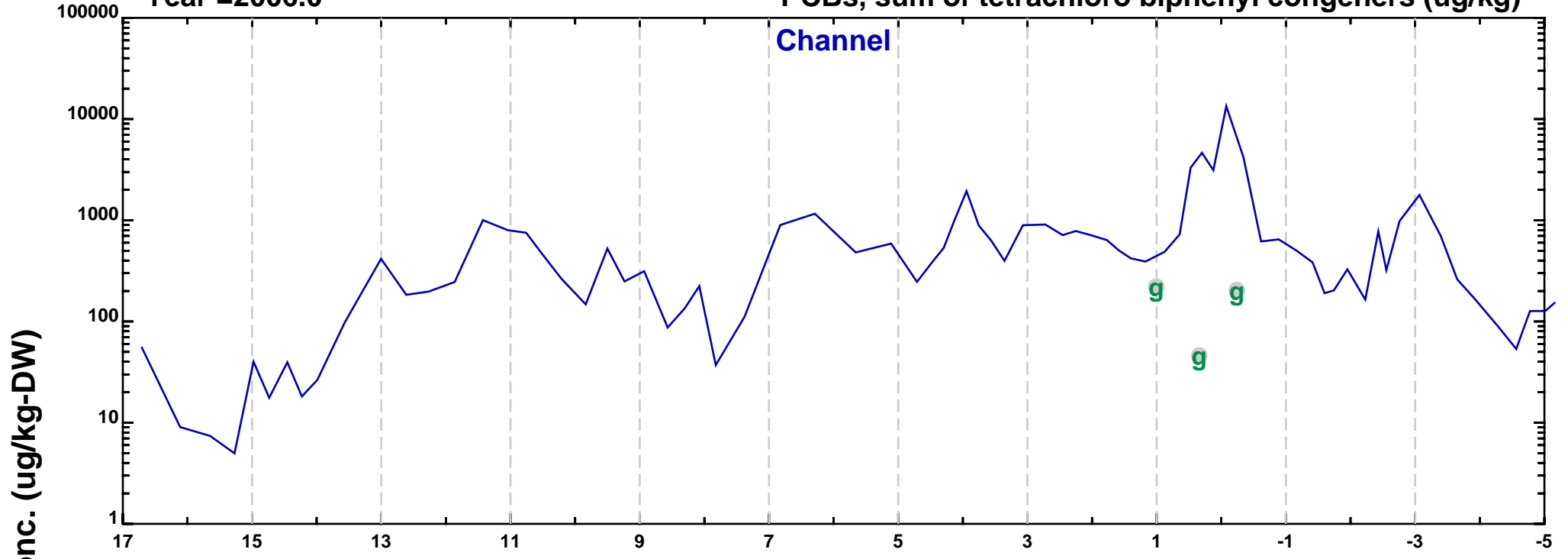
East Newark Bay shoal



River Mile

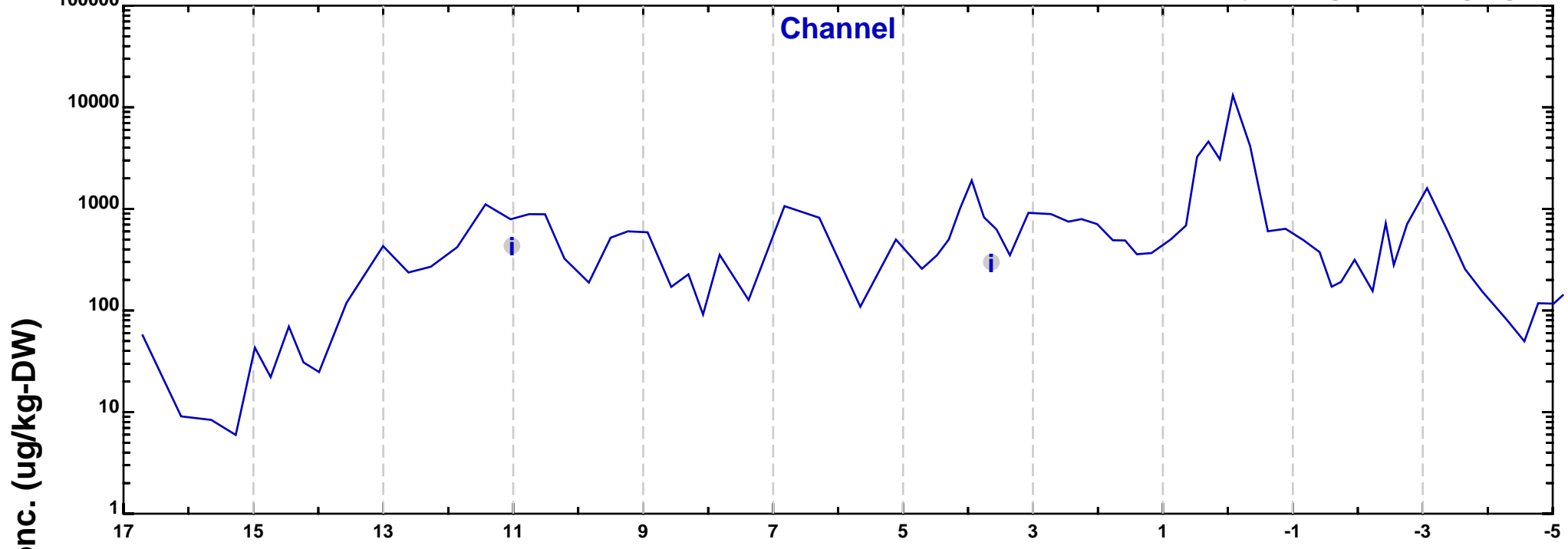
Year =2006.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



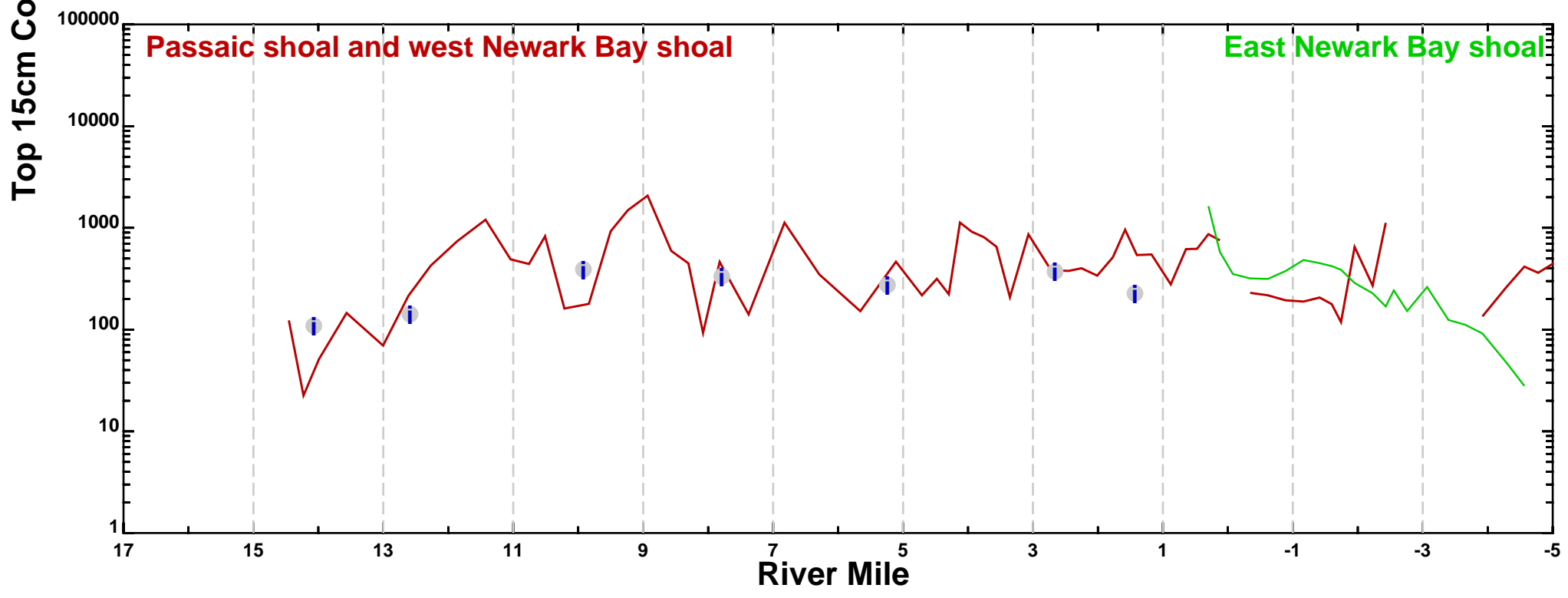
Year =2007.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



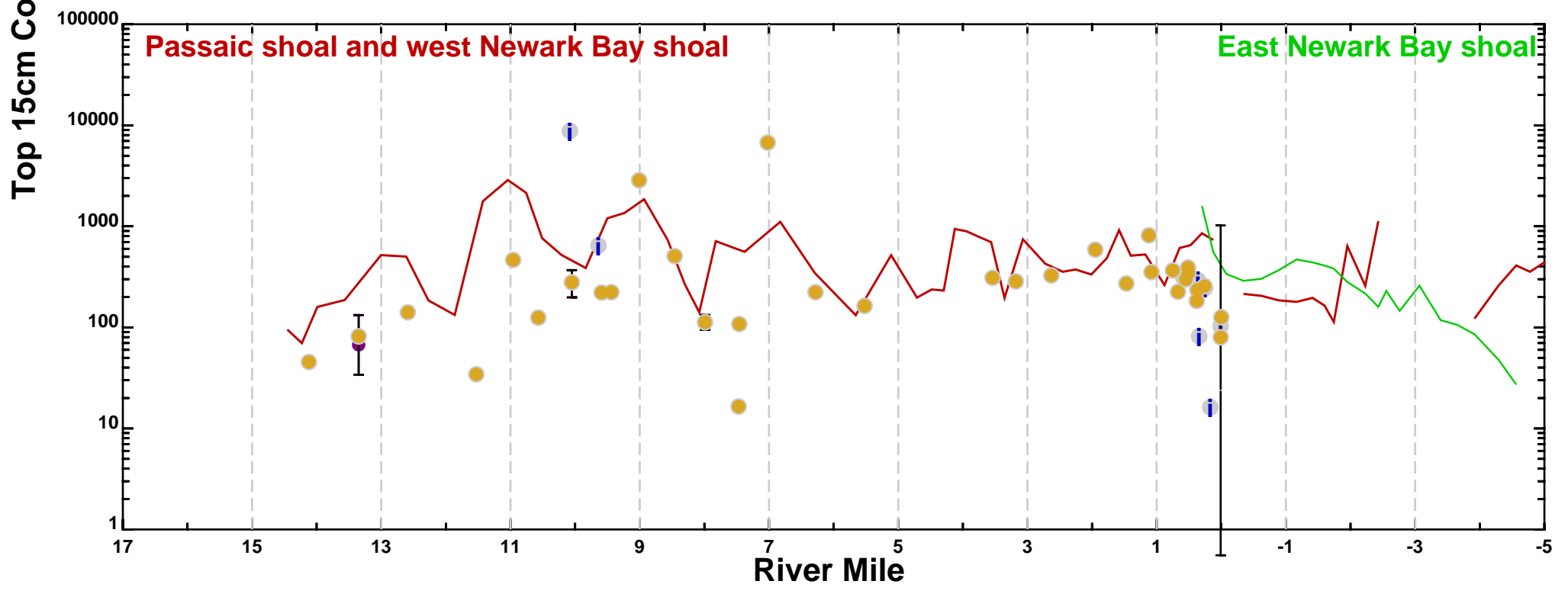
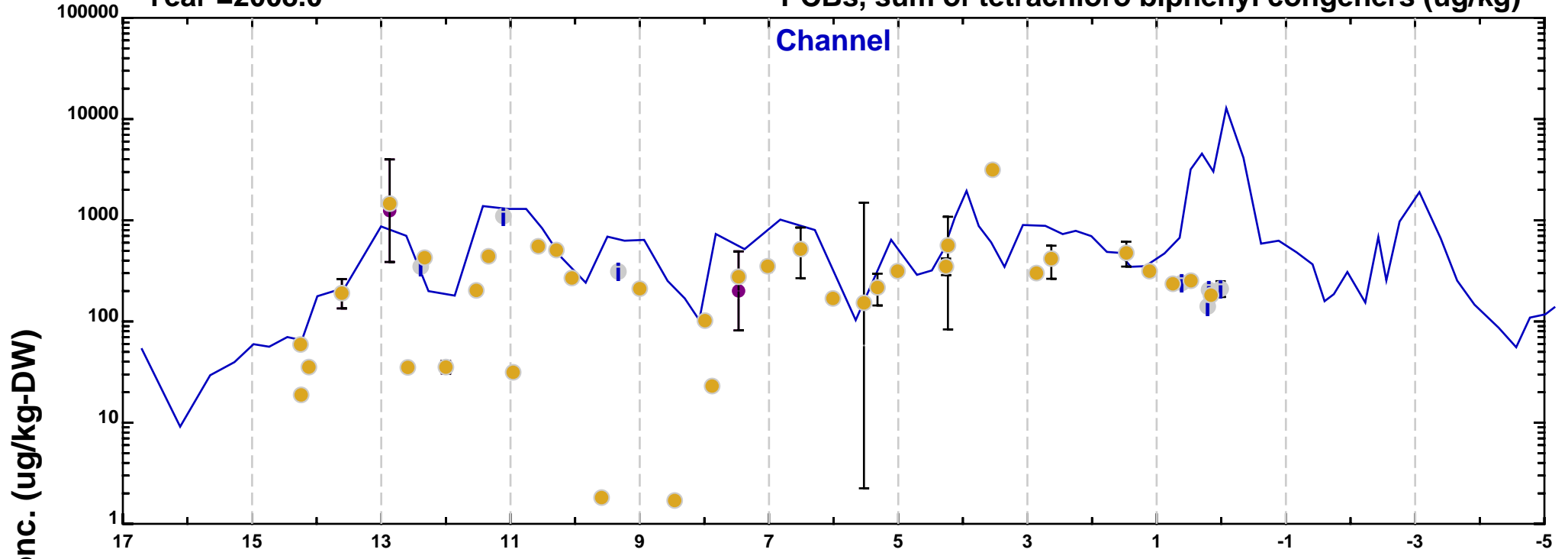
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2008.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



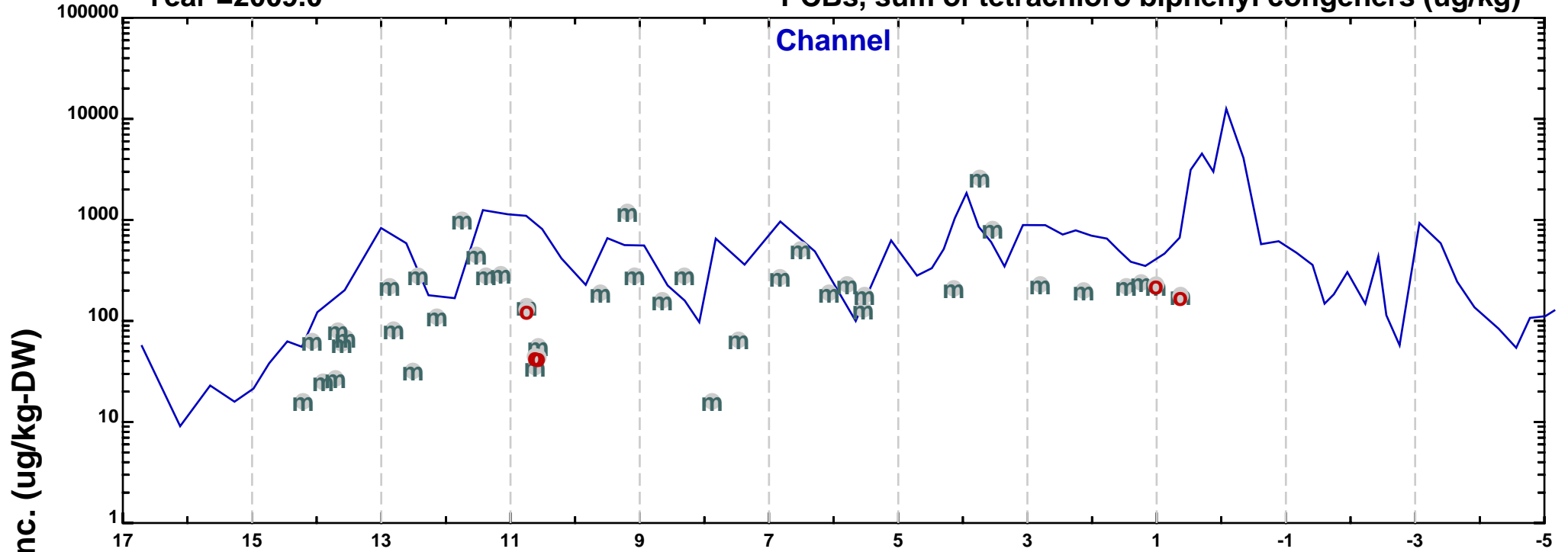
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

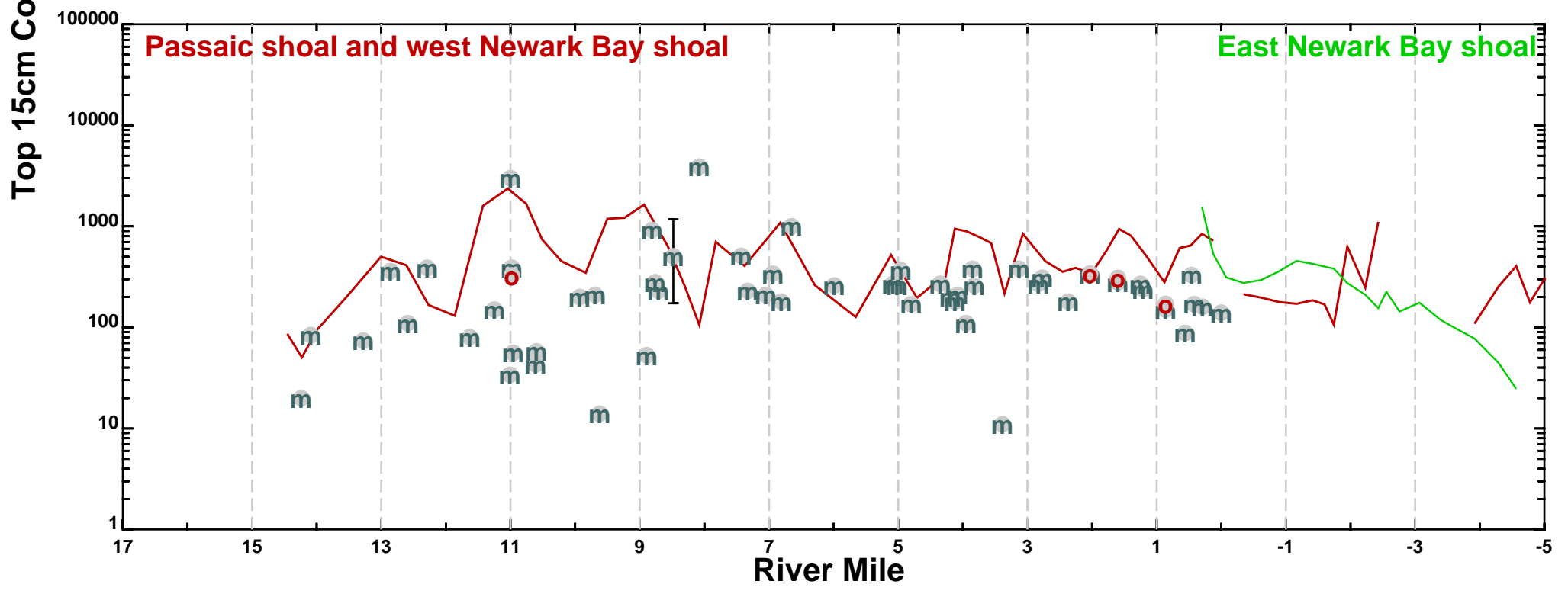
Year =2009.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



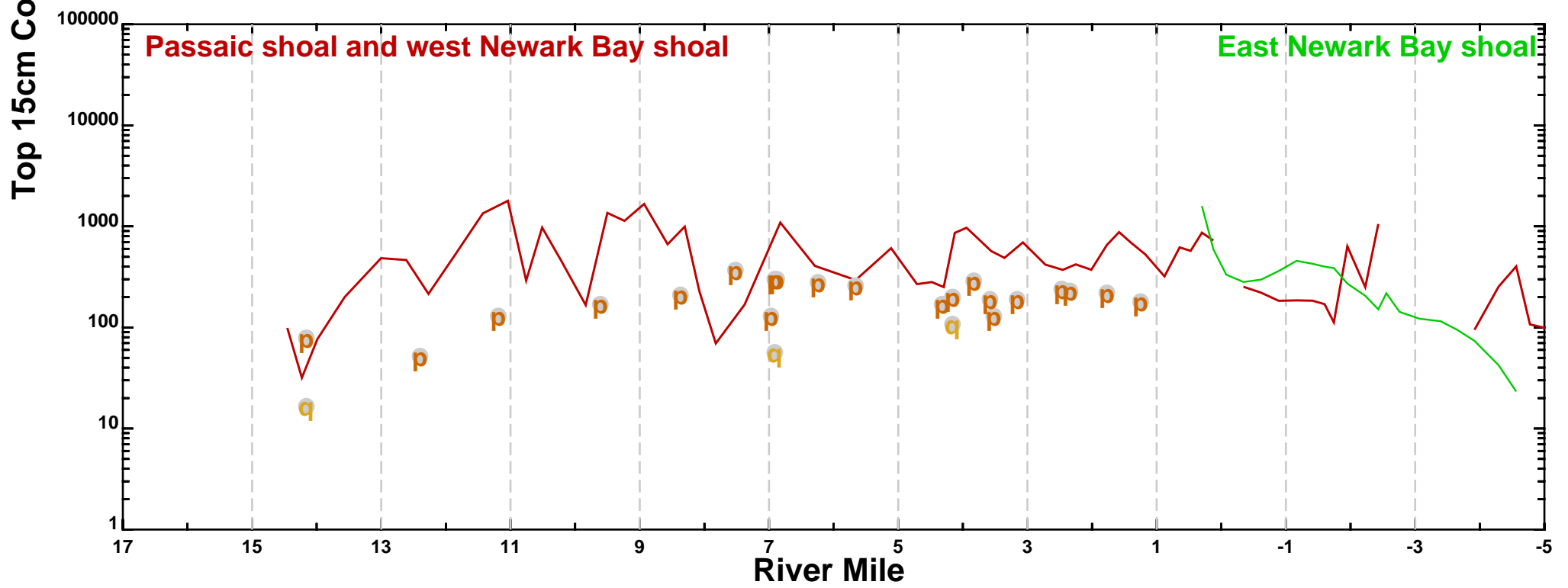
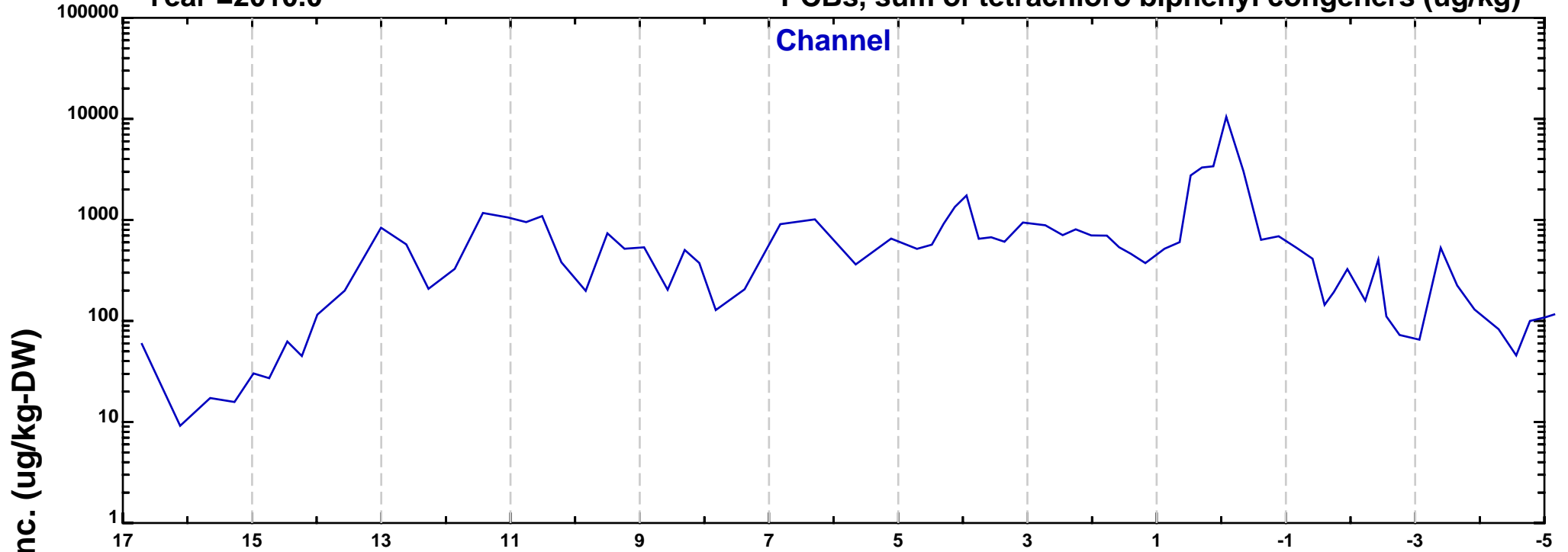
Passaic shoal and west Newark Bay shoal

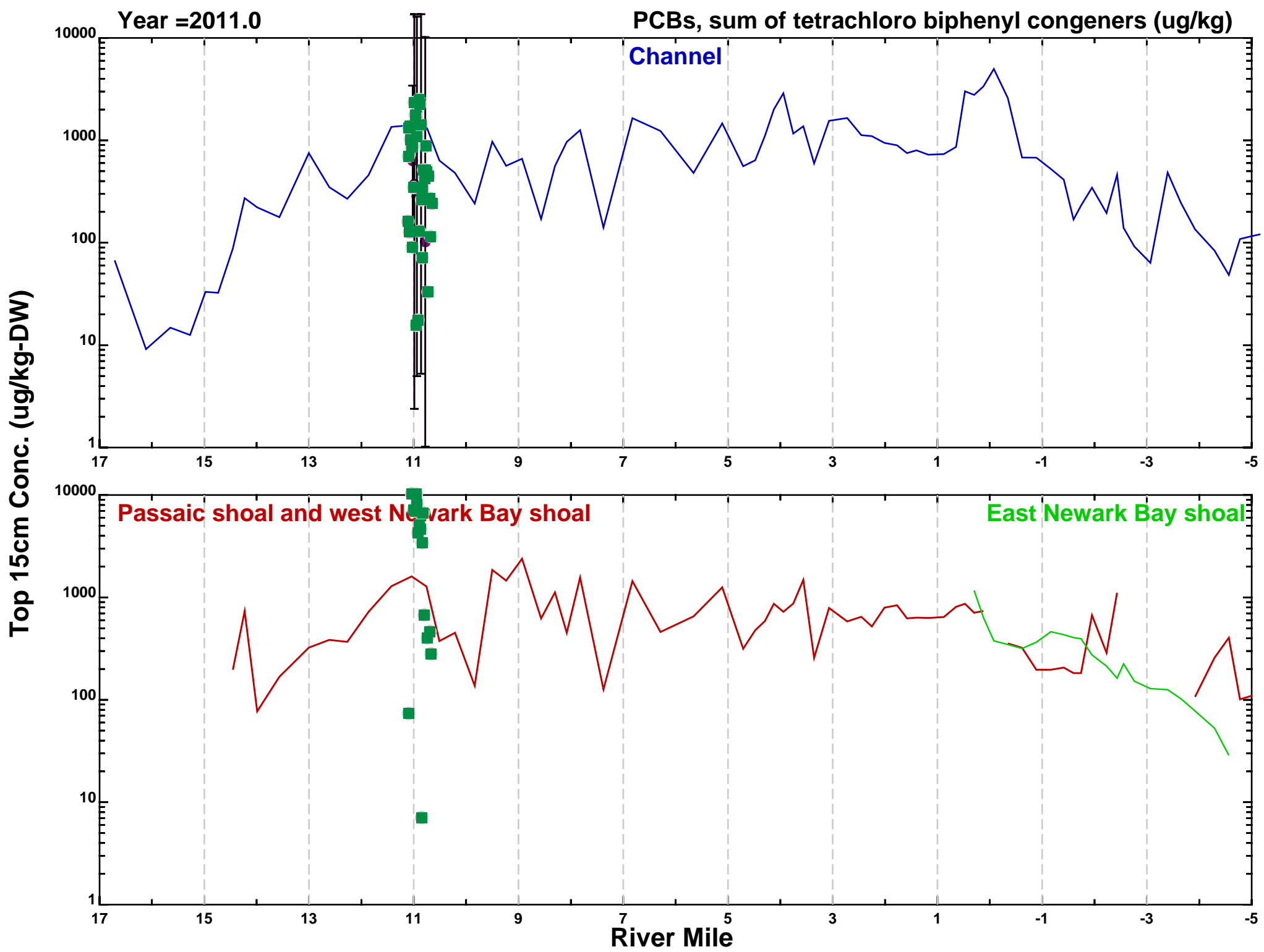
East Newark Bay shoal



Year =2010.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)



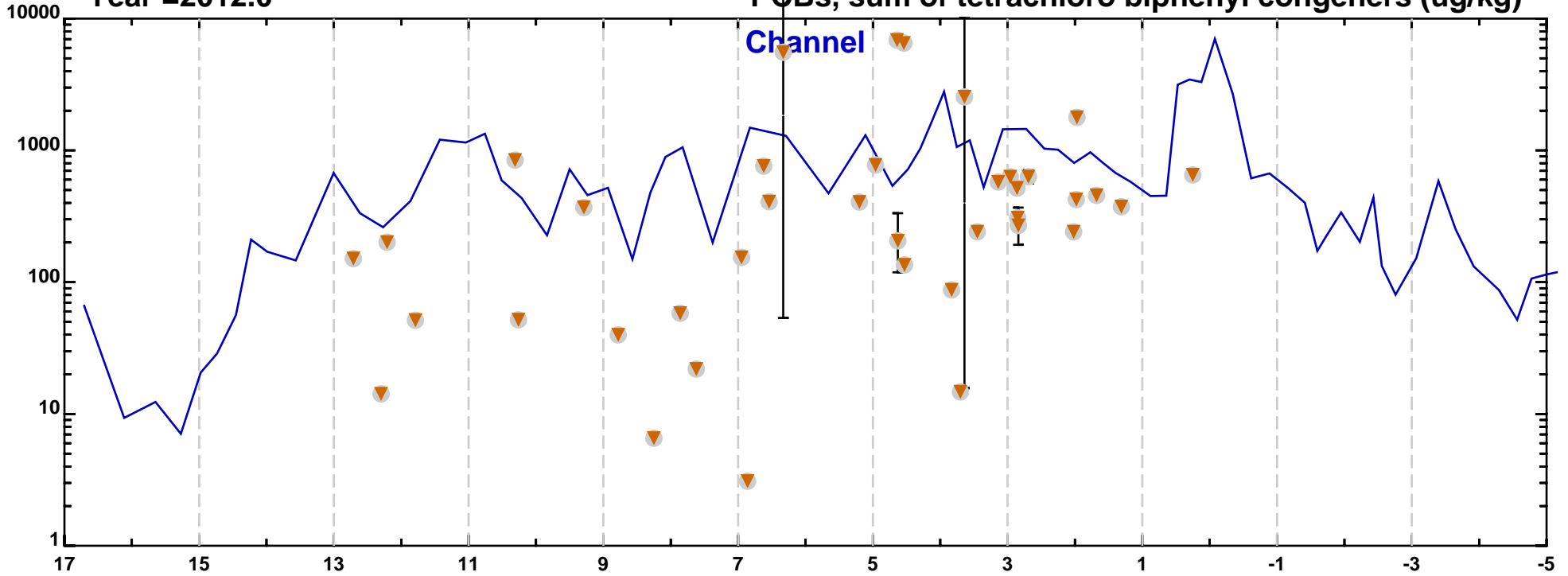




Year =2012.0

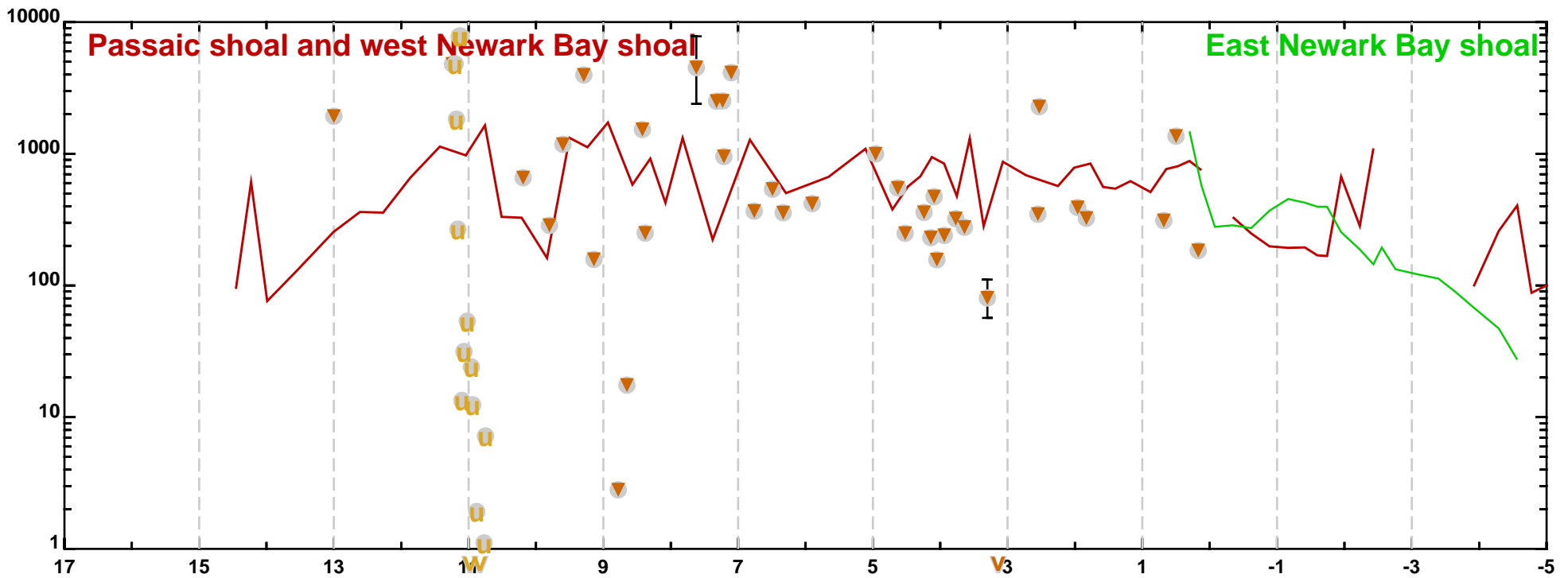
PCBs, sum of tetrachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

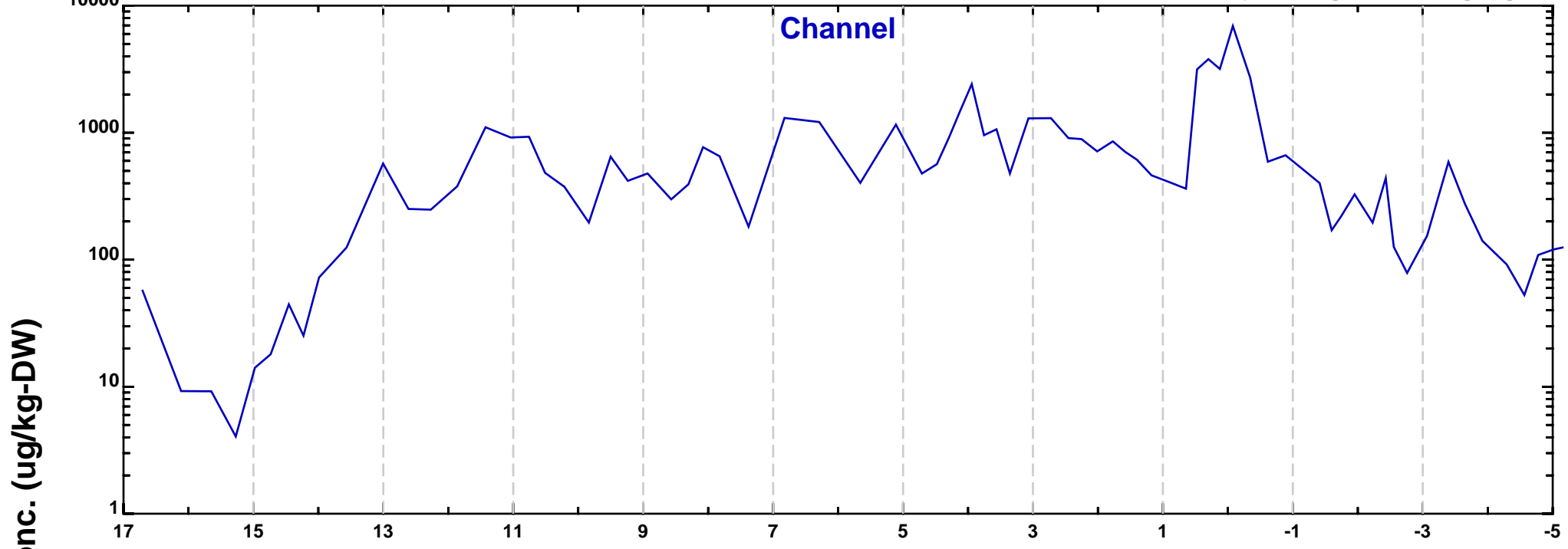
East Newark Bay shoal



River Mile

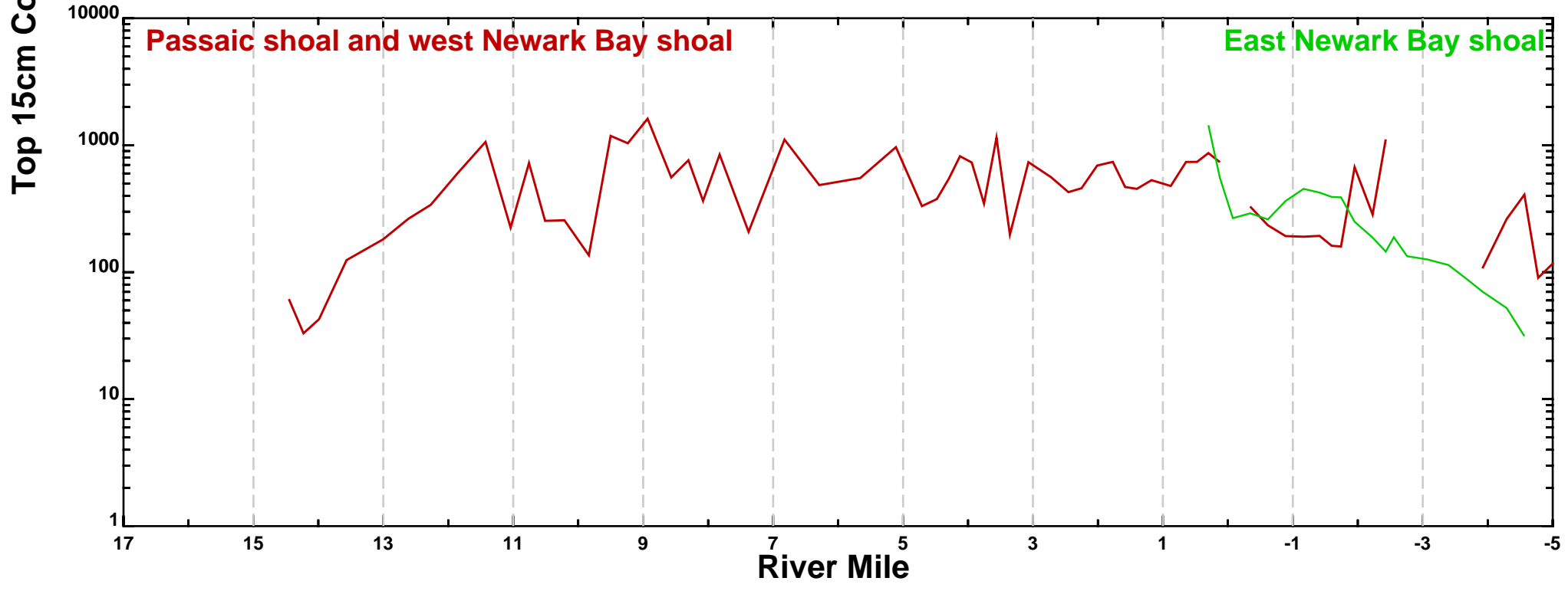
Year =2013.0

PCBs, sum of tetrachloro biphenyl congeners (ug/kg)

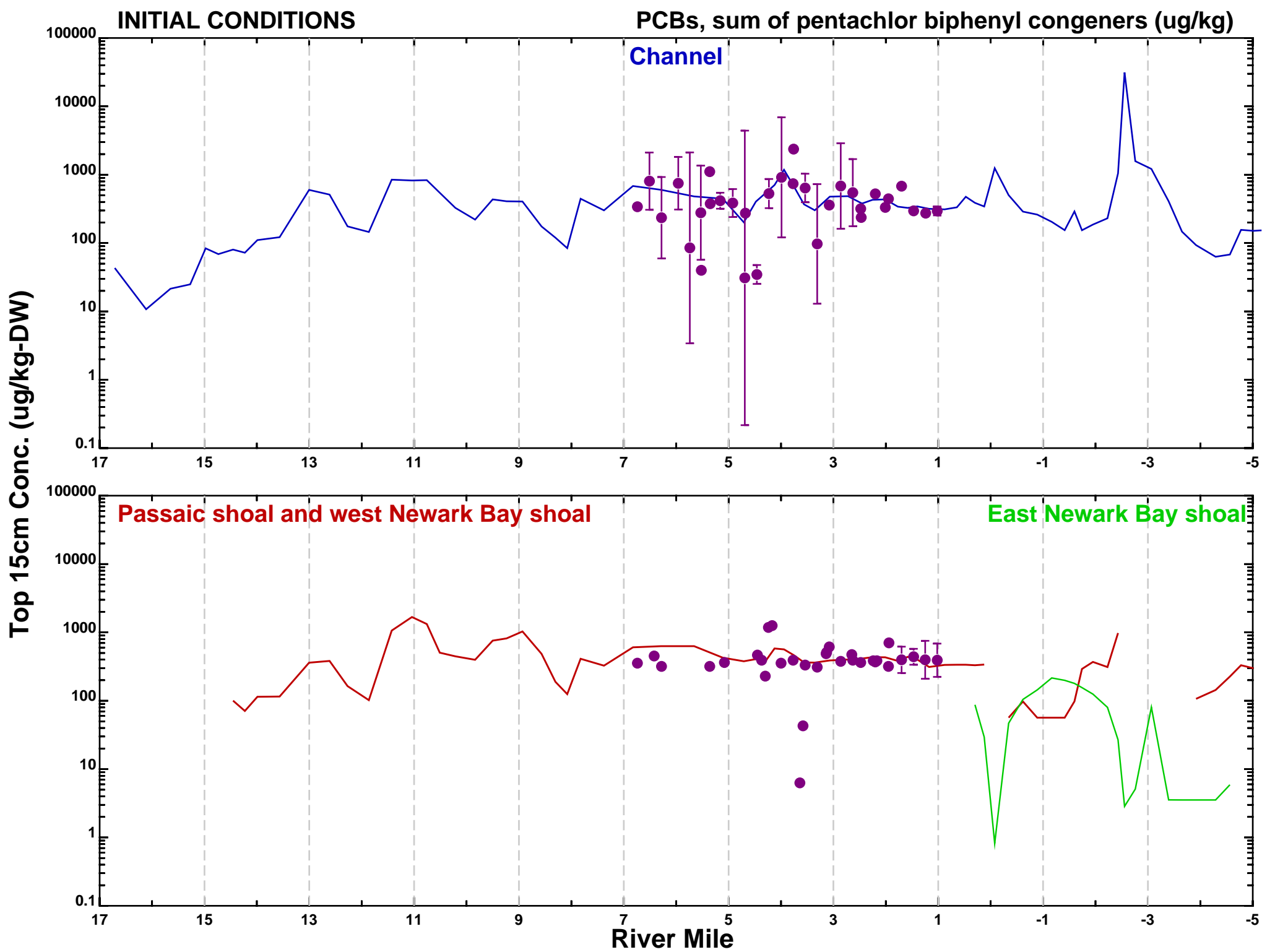


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

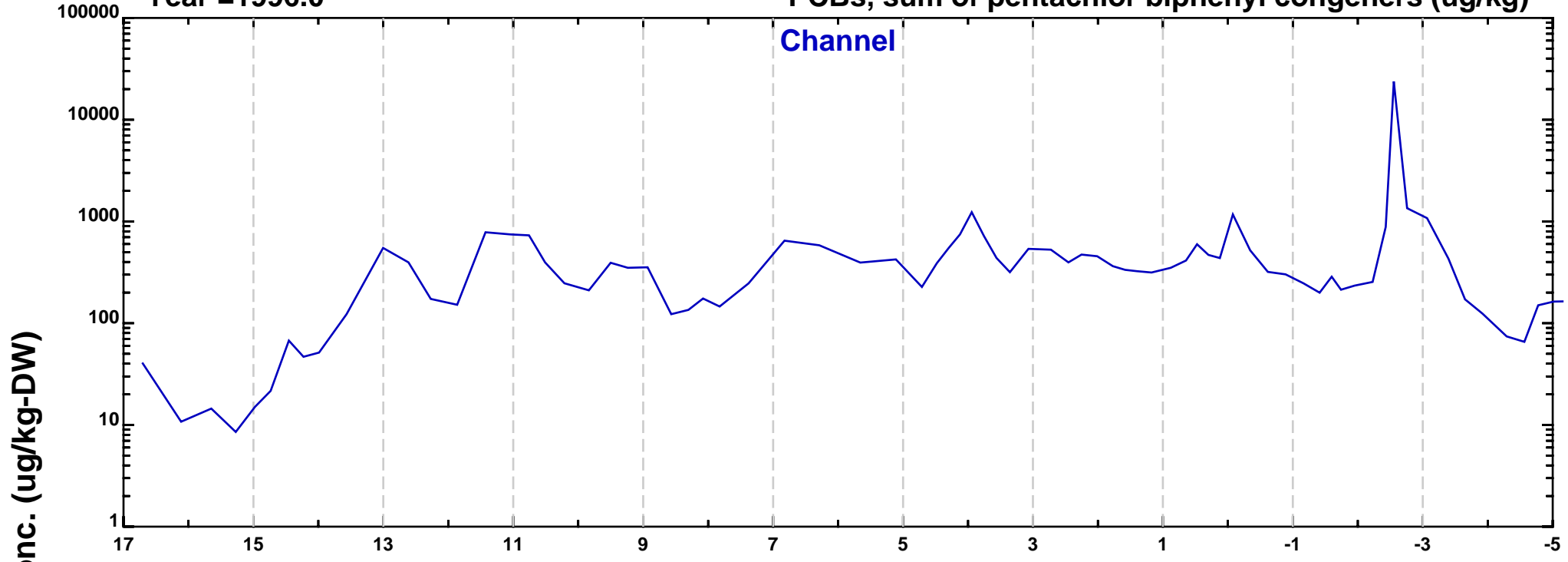


River Mile



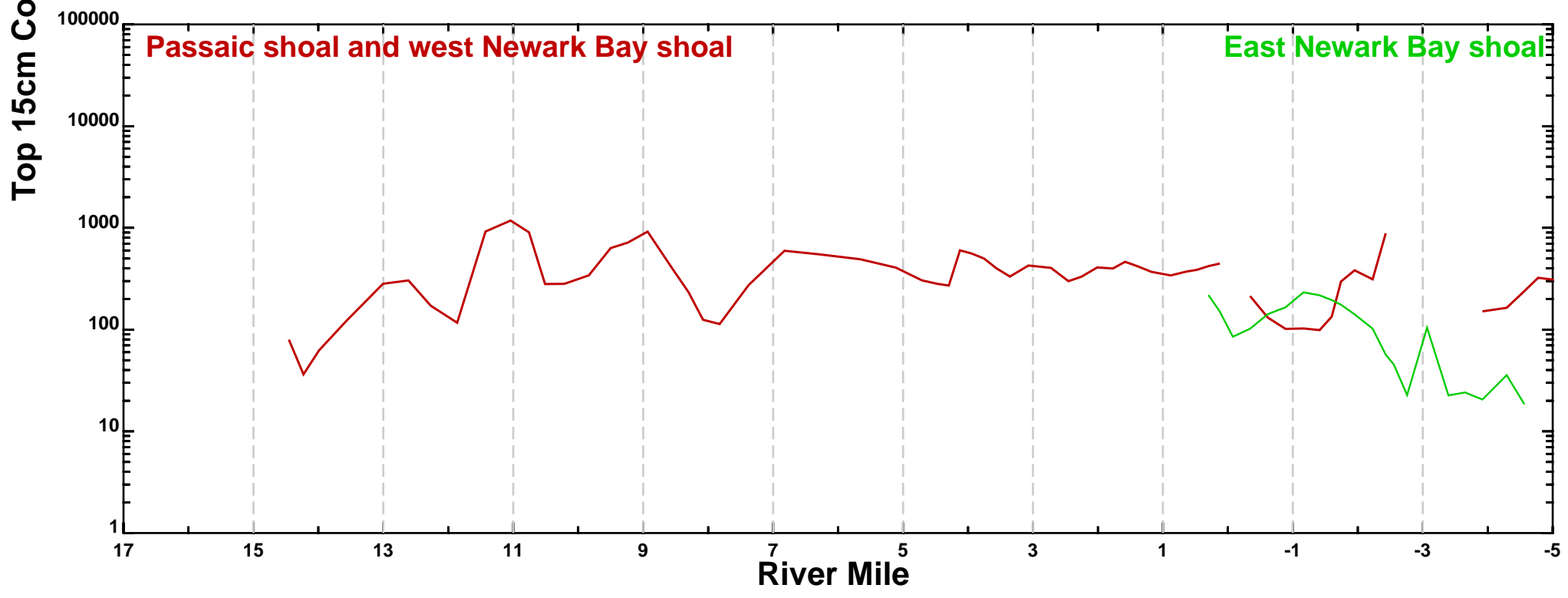
Year =1996.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

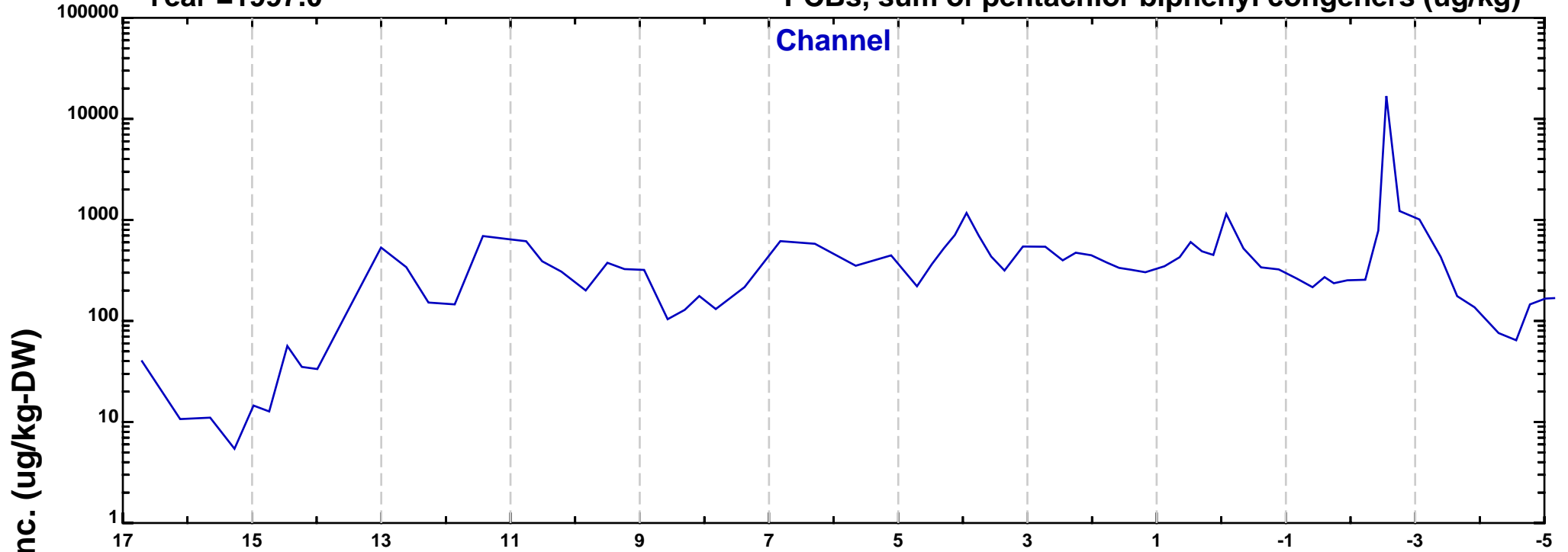
East Newark Bay shoal



River Mile

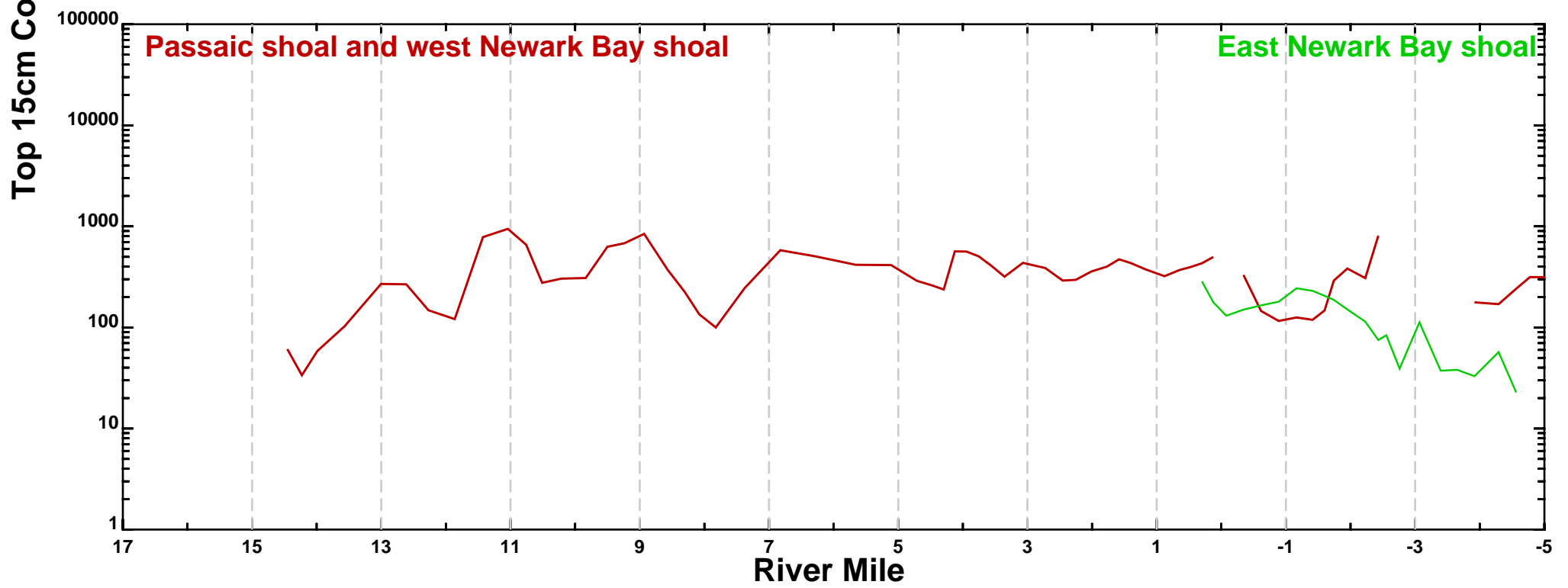
Year =1997.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



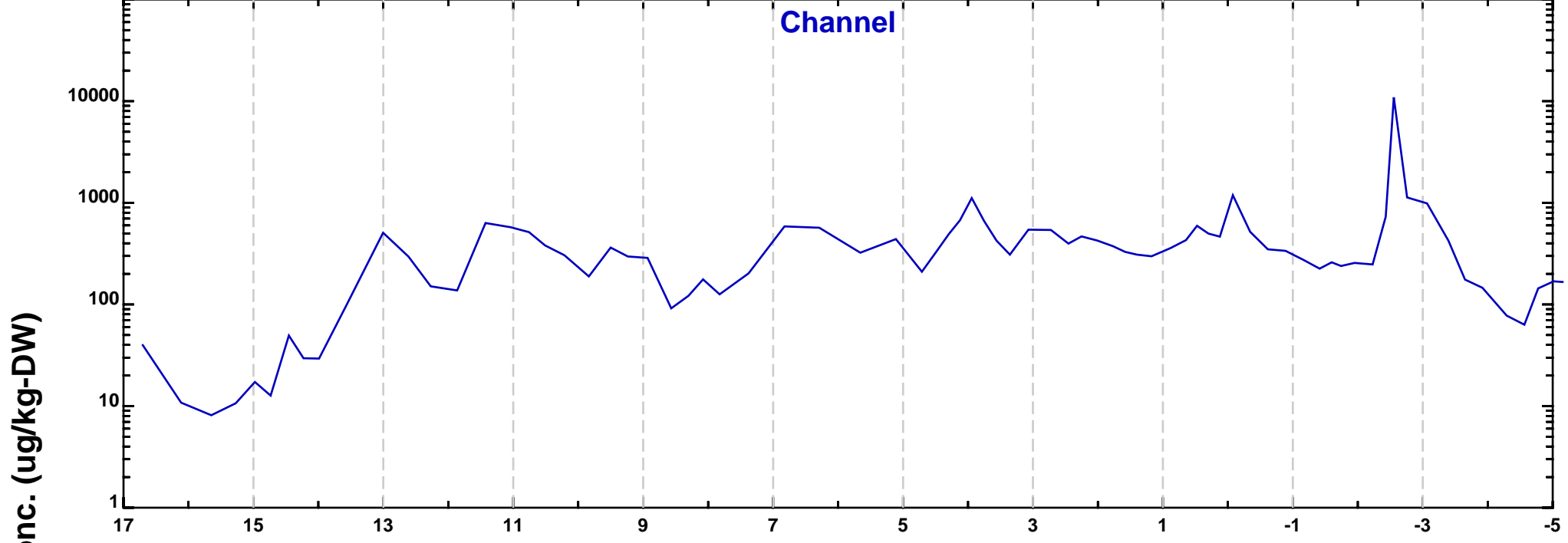
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



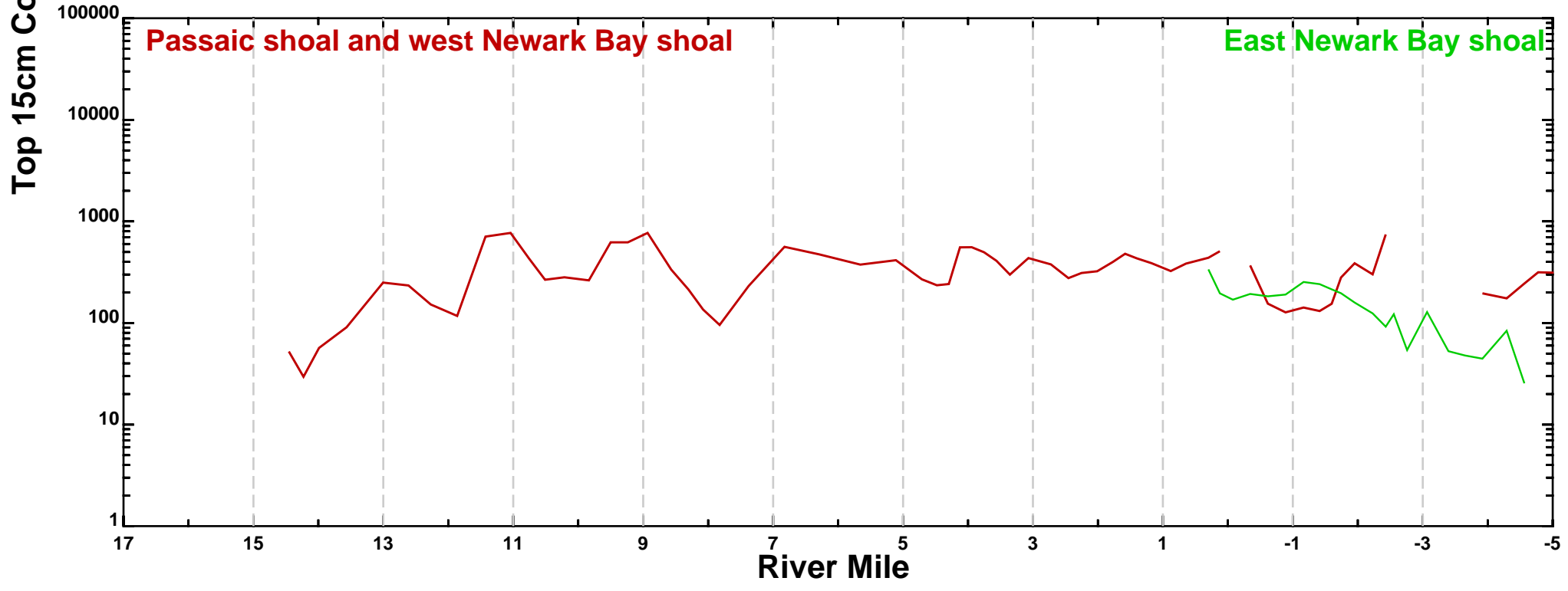
Year =1998.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



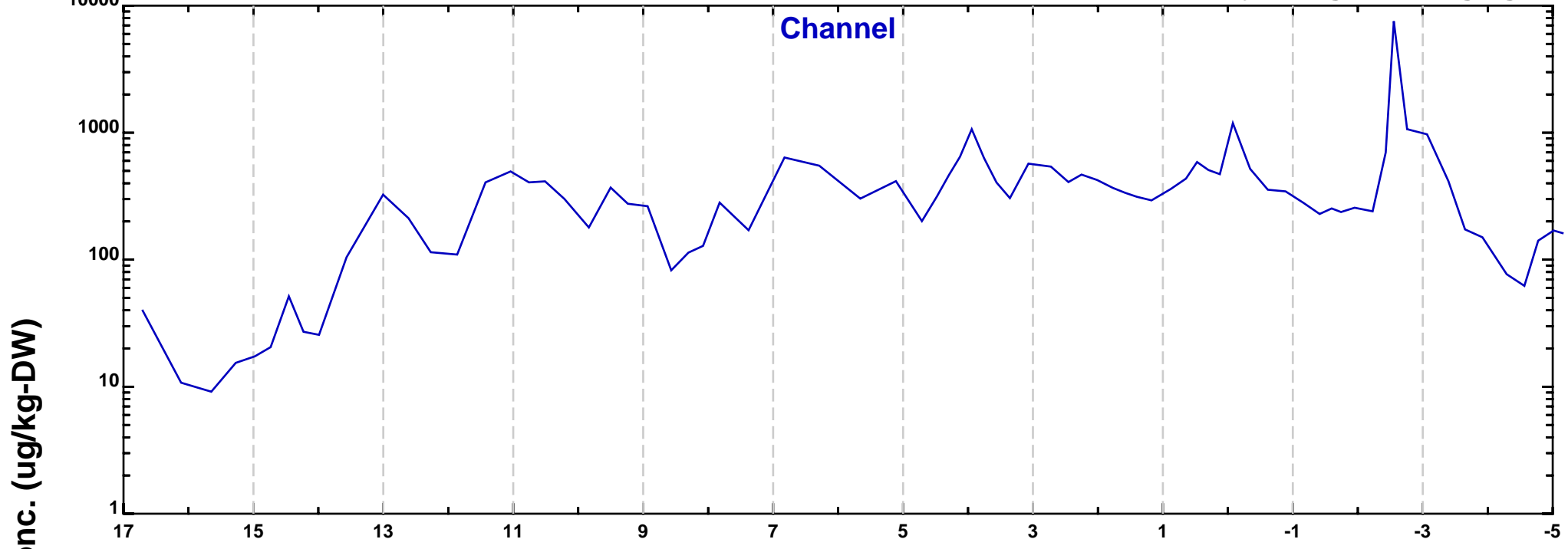
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



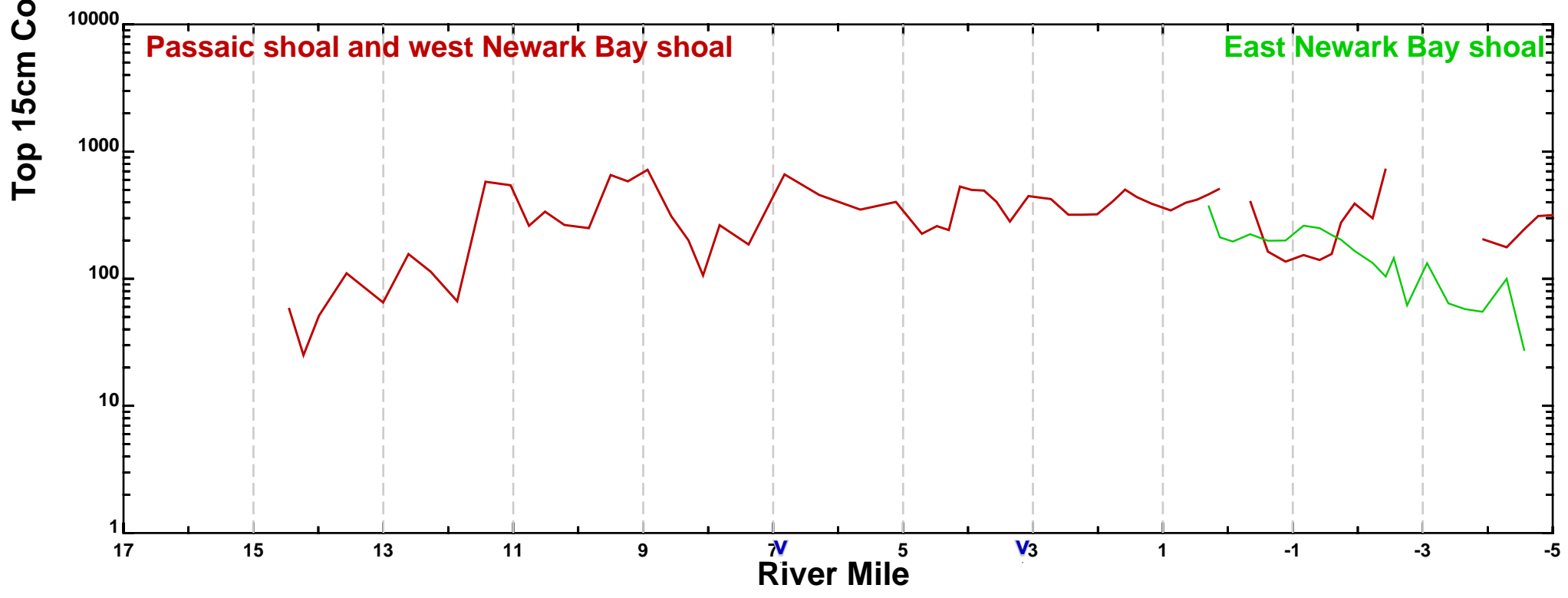
Year =1999.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

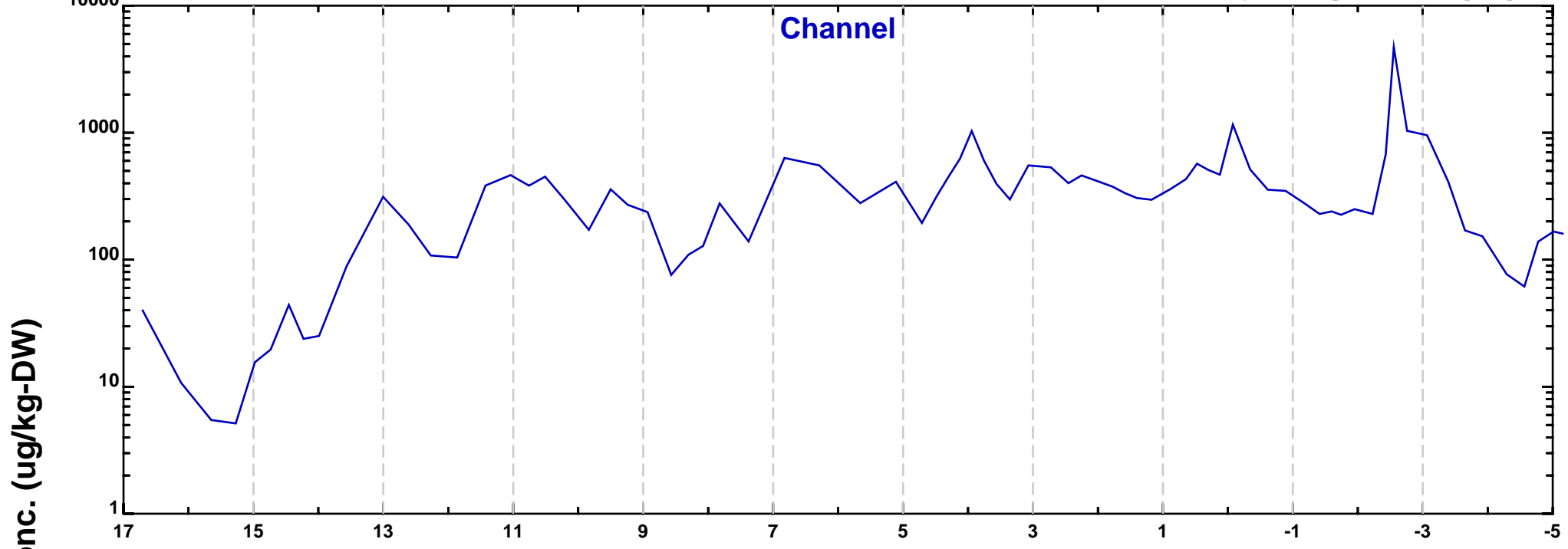
East Newark Bay shoal



River Mile

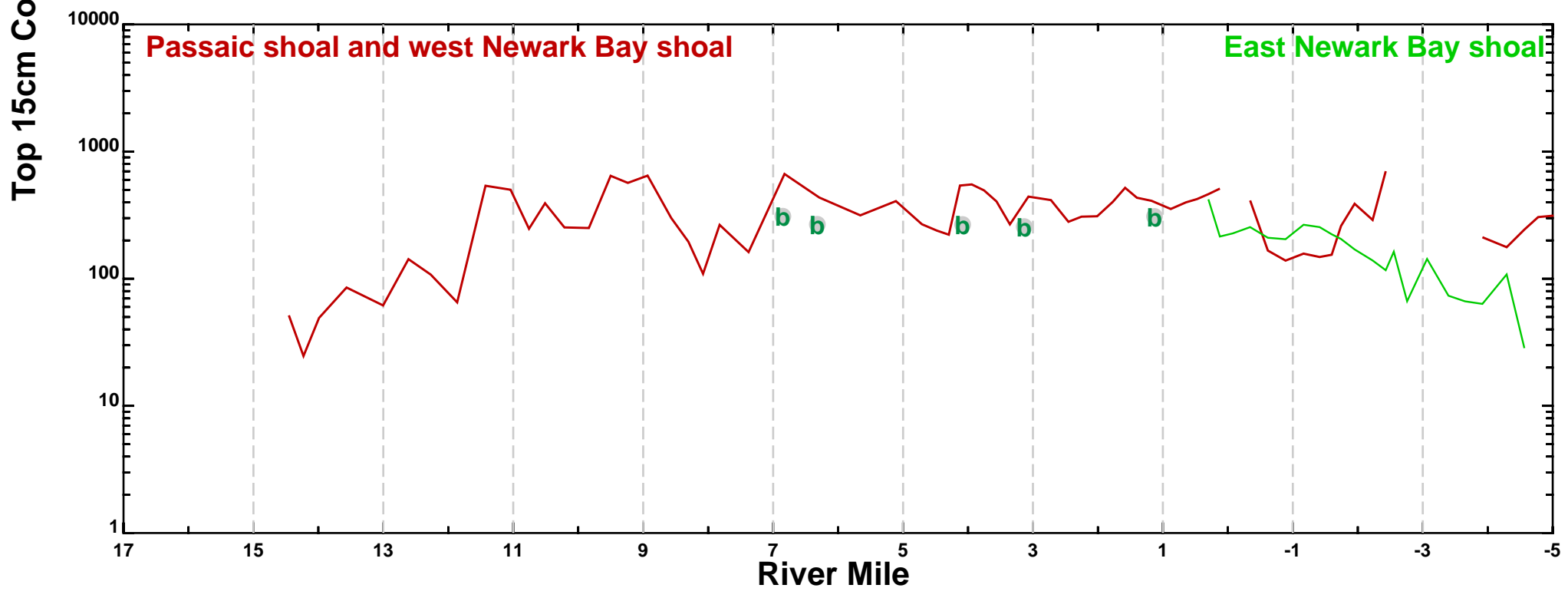
Year =2000.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

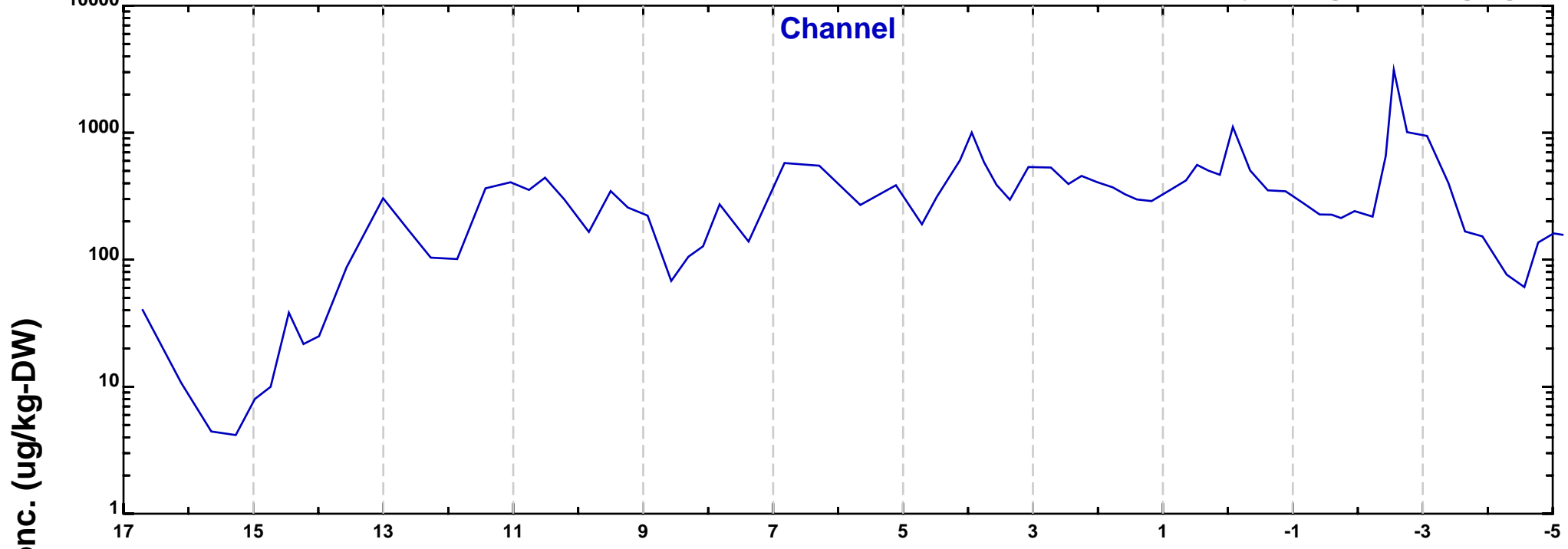
East Newark Bay shoal





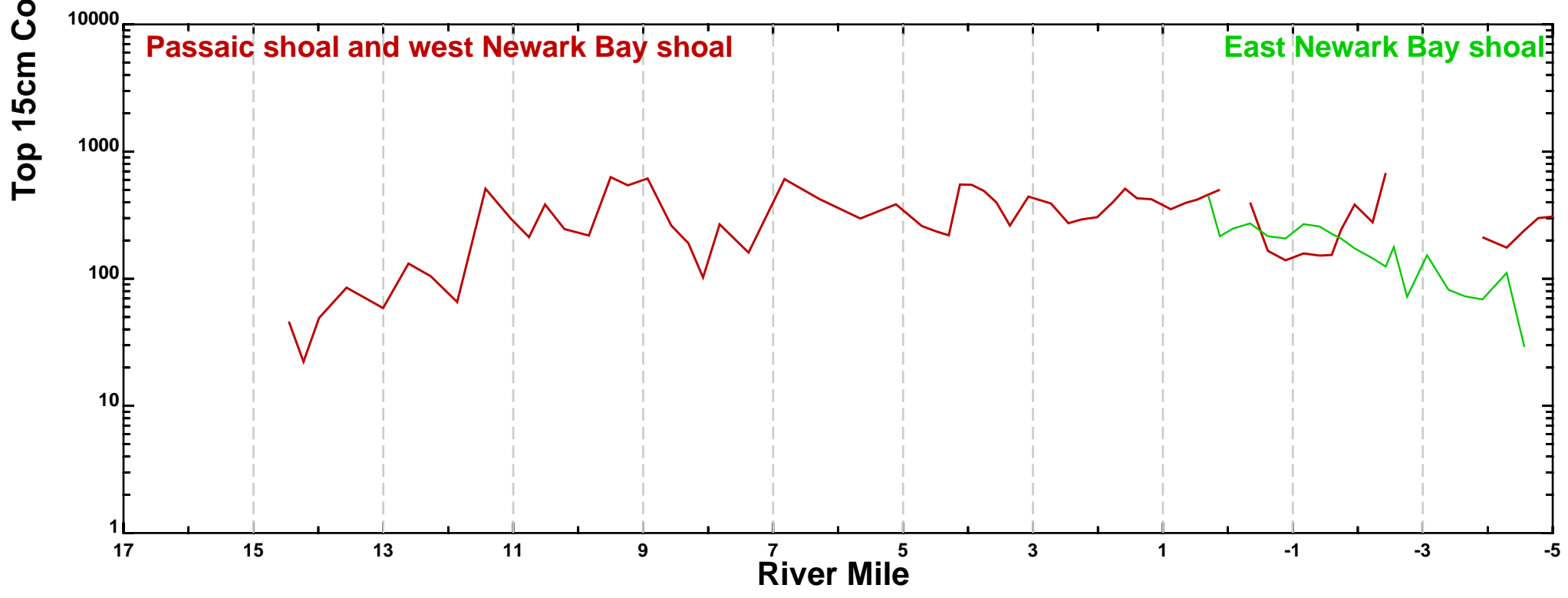
Year =2001.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

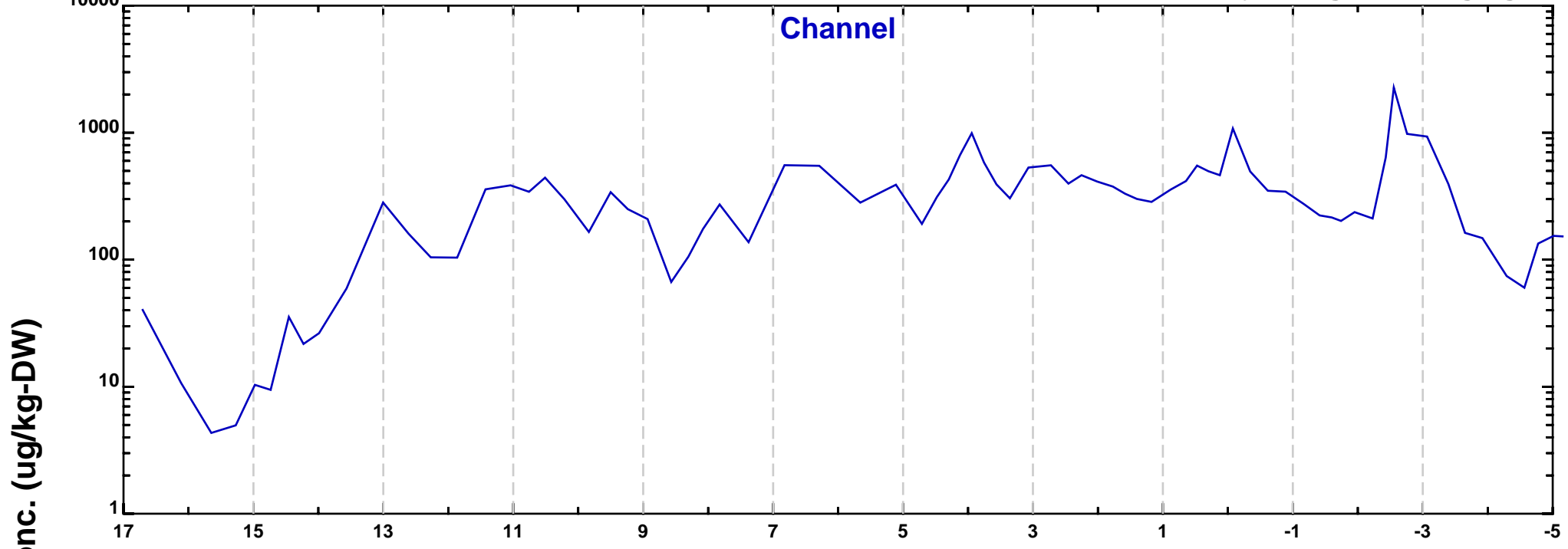
East Newark Bay shoal



River Mile

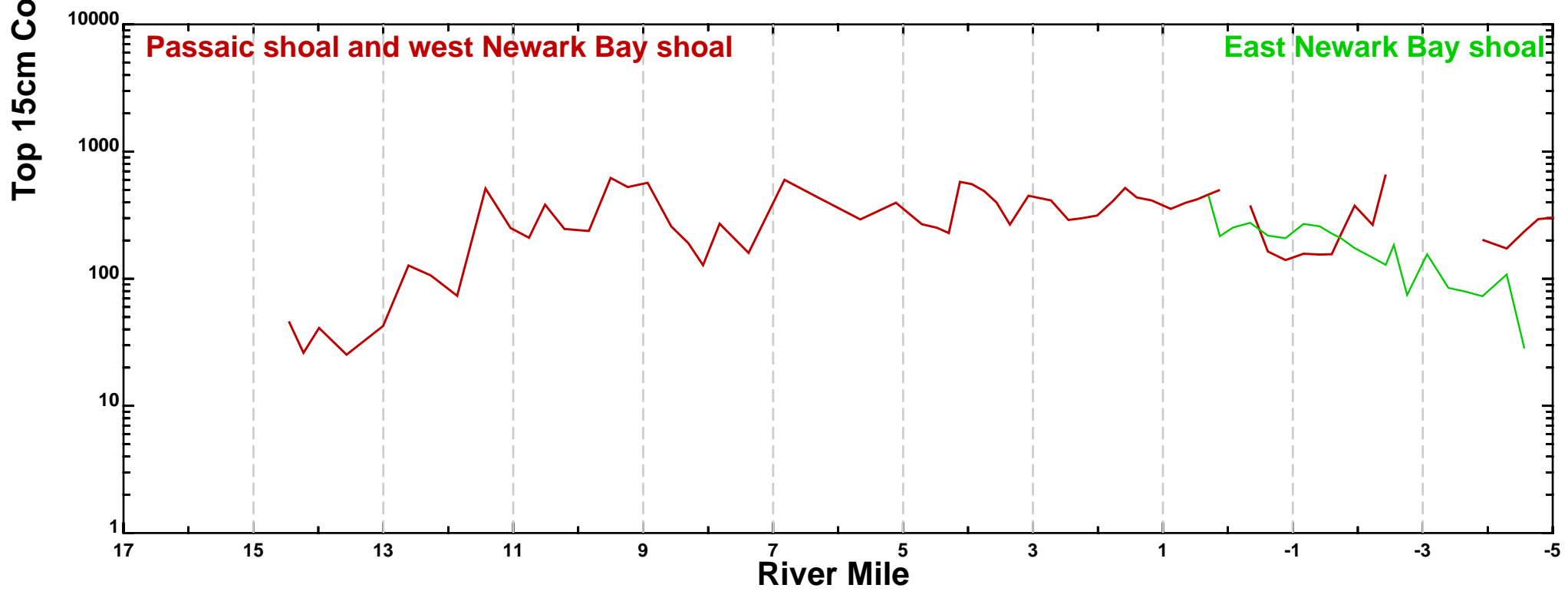
Year =2002.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

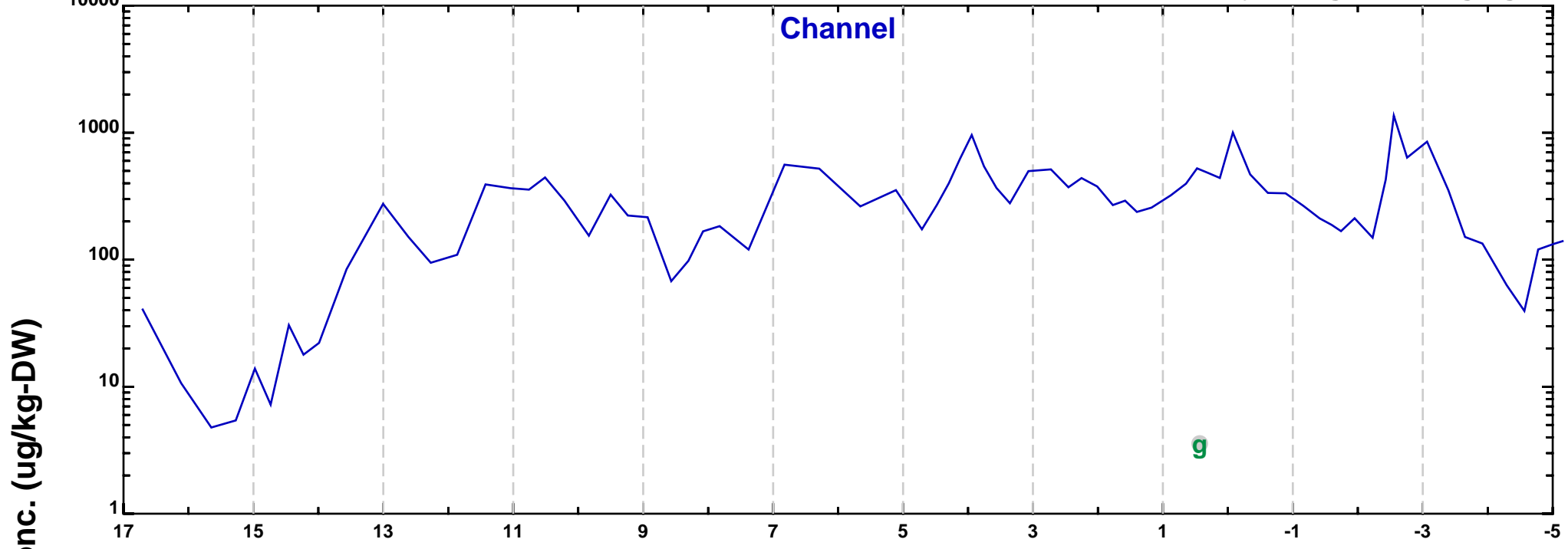
East Newark Bay shoal



River Mile

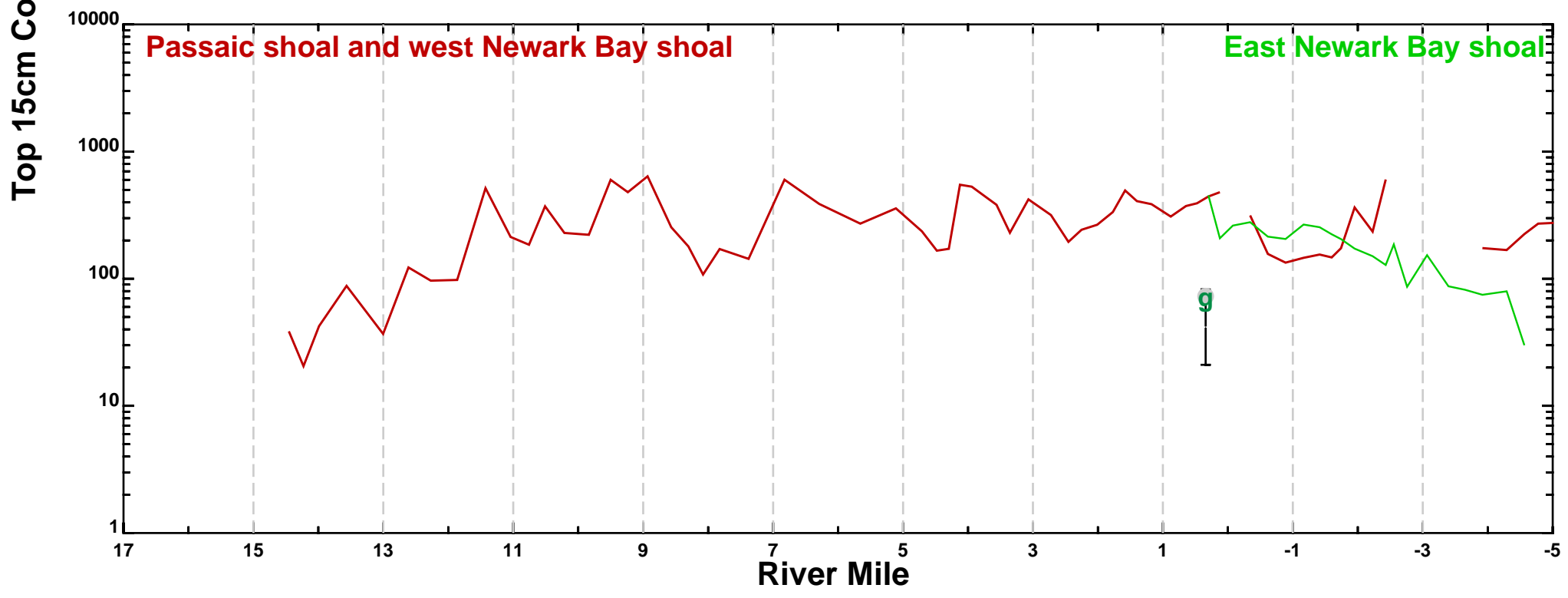
Year =2003.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2004.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)

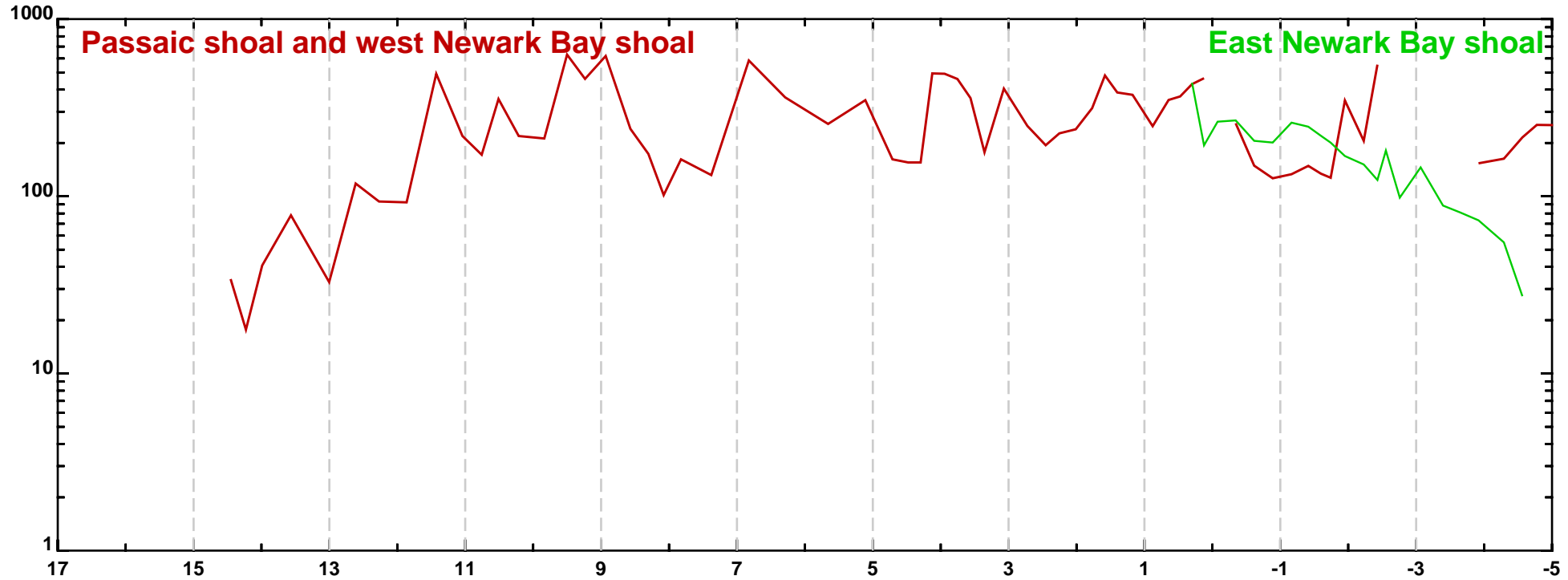
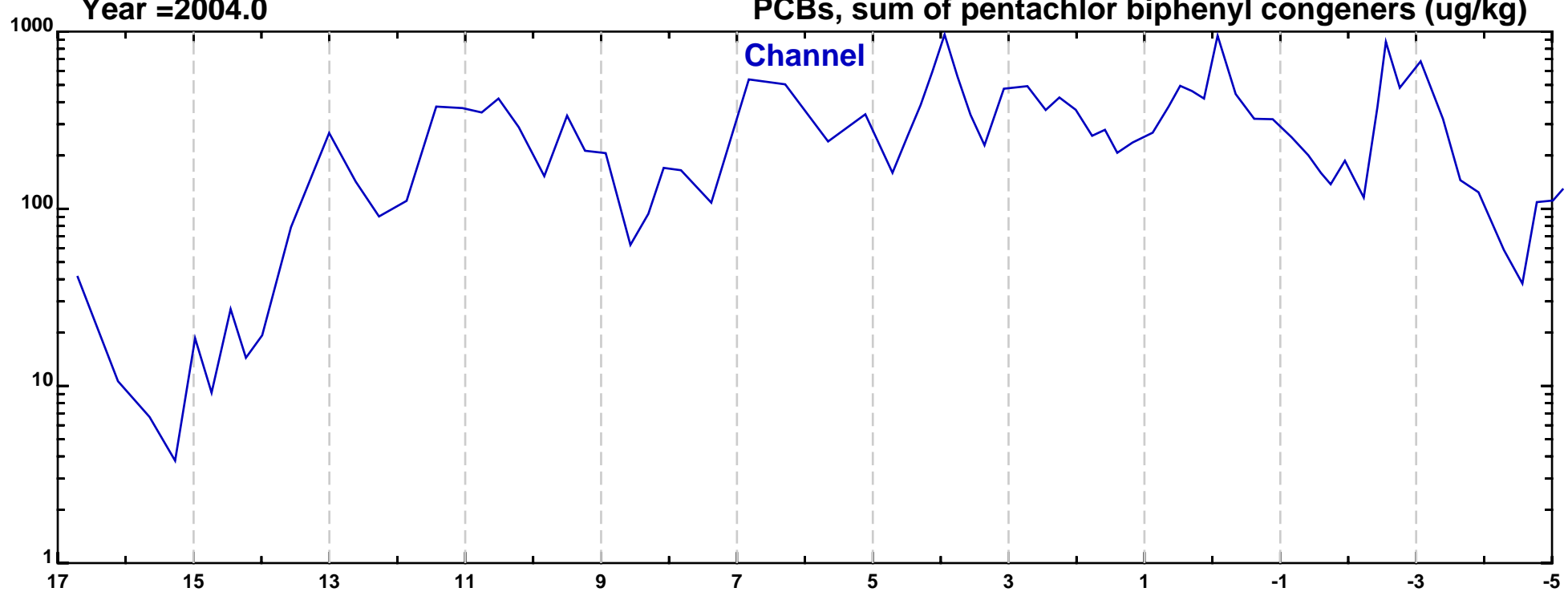
Top 15cm Conc. (ug/kg-DW)

River Mile

Channel

Passaic shoal and west Newark Bay shoal

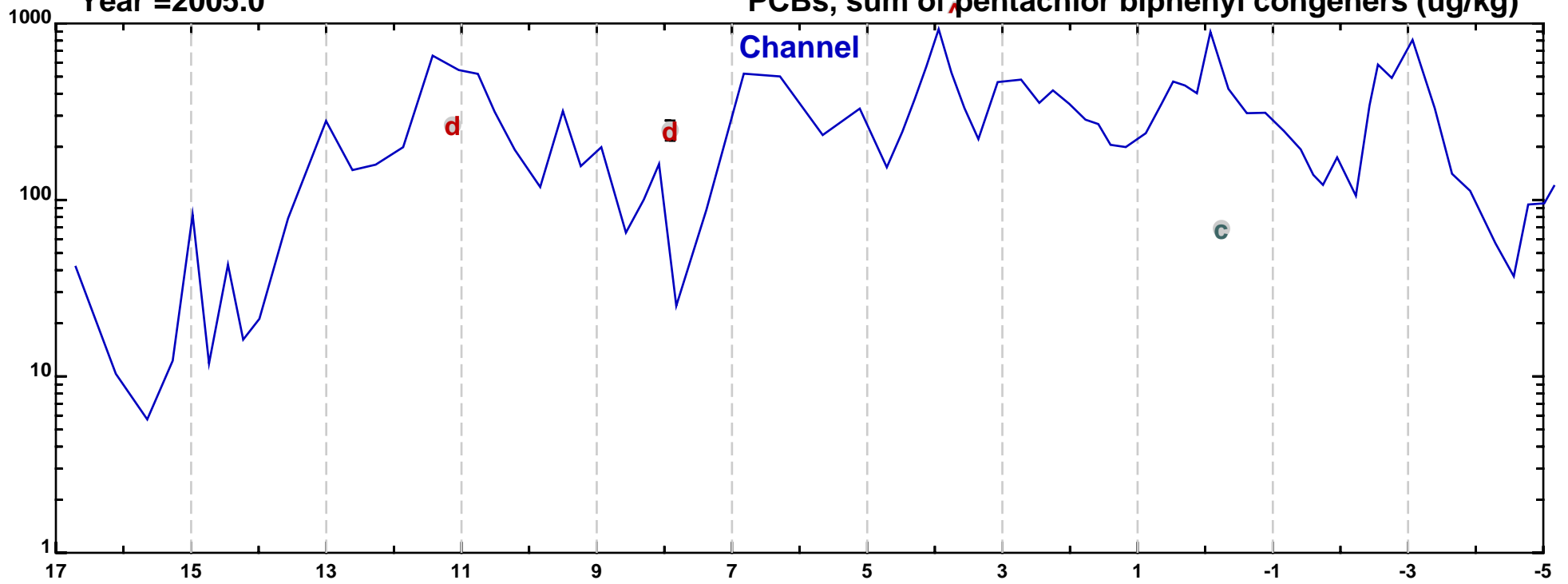
East Newark Bay shoal



Year =2005.0

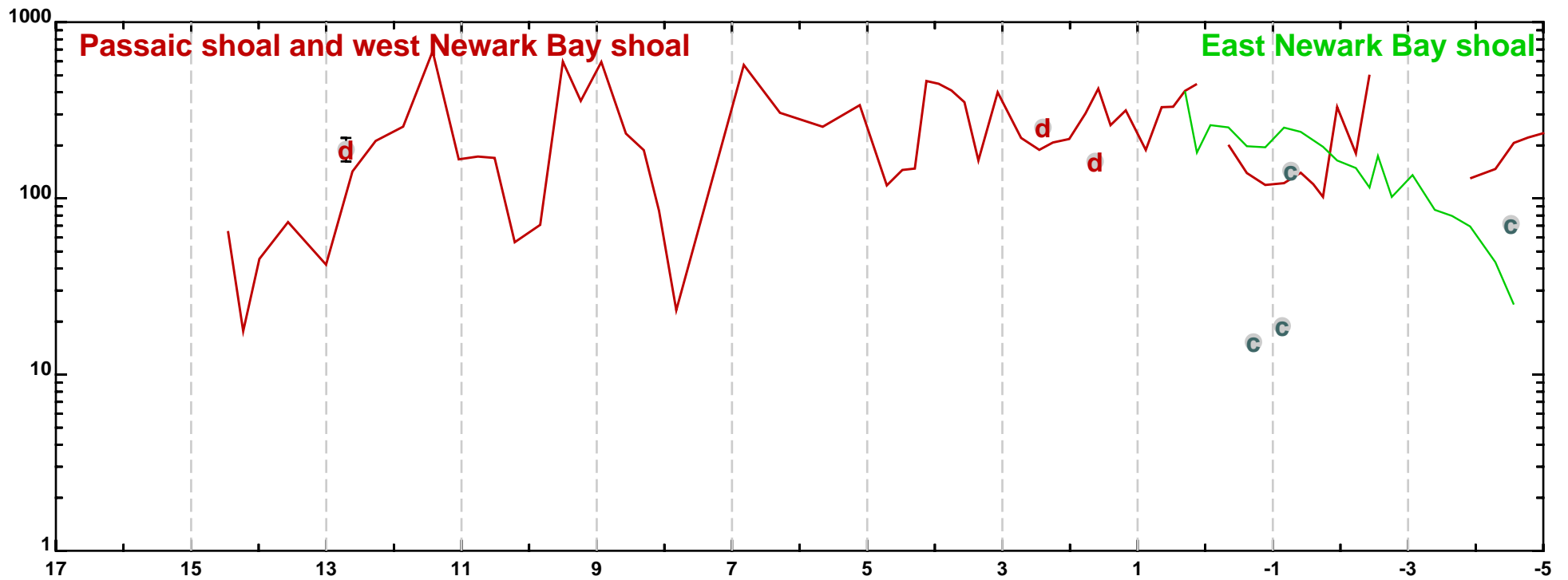
PCBs, sum of pentachlor biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

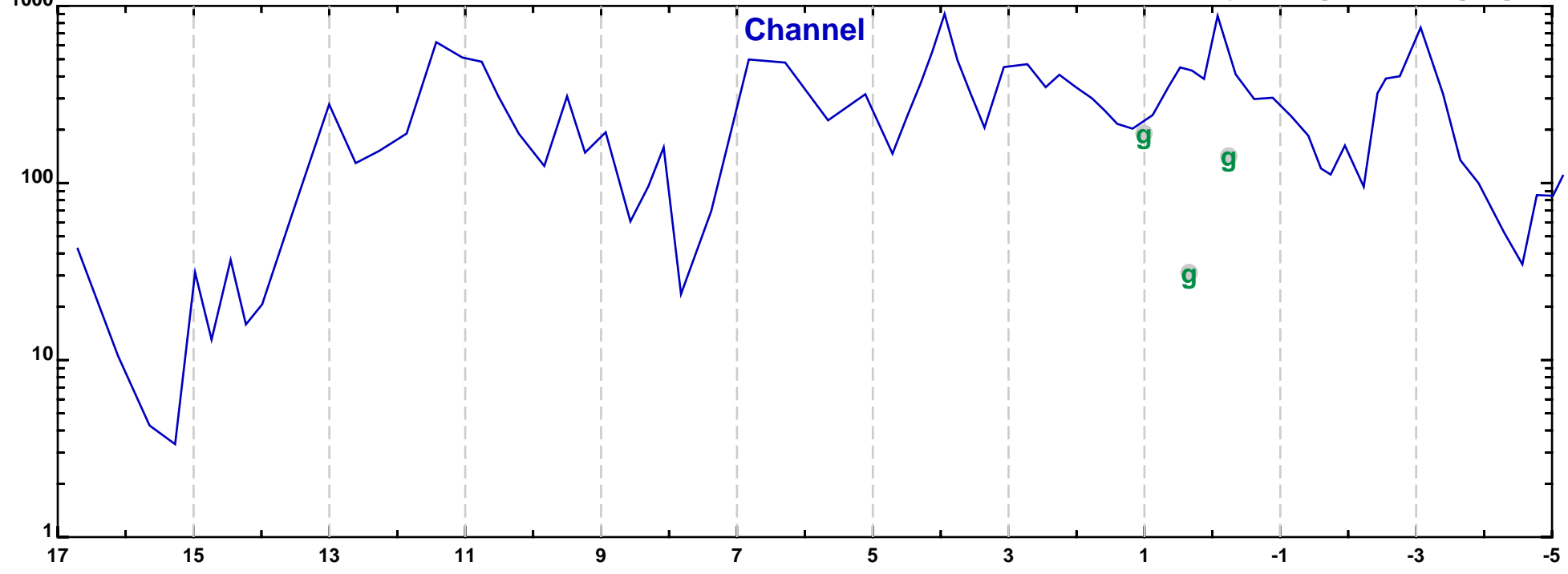


River Mile

Year =2006.0

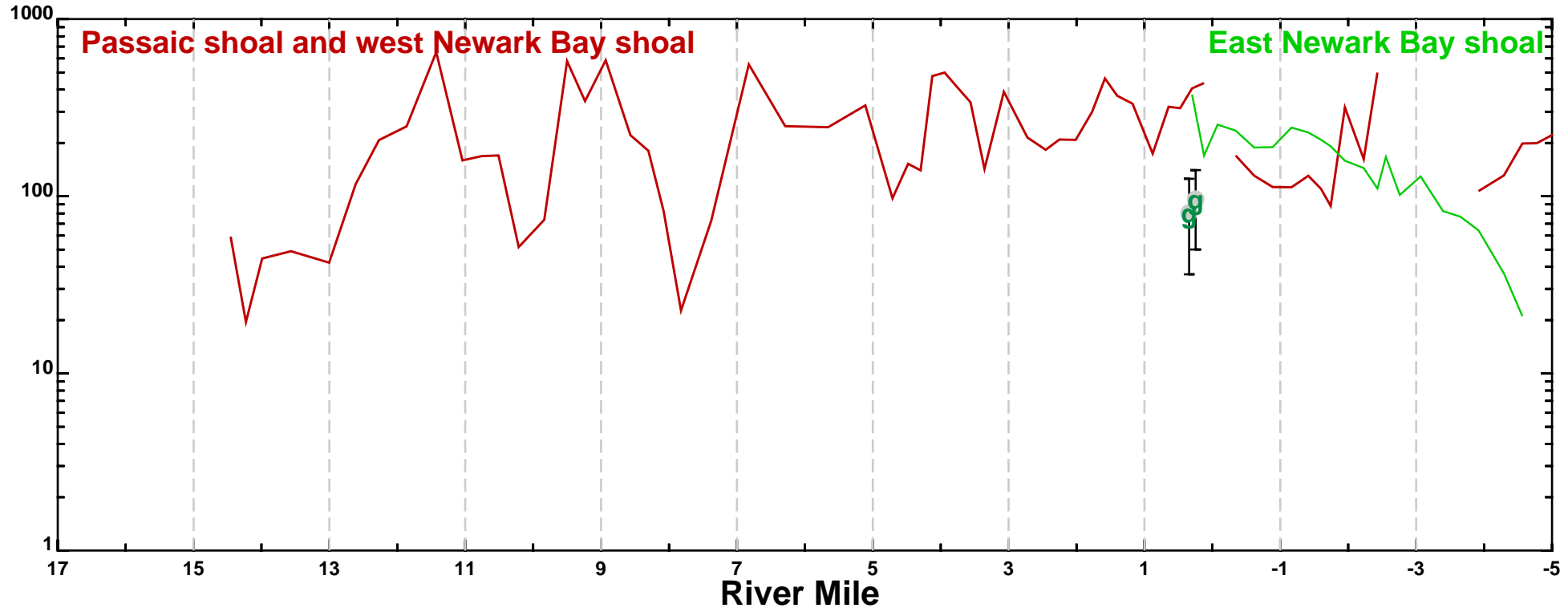
PCBs, sum of pentachlor biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

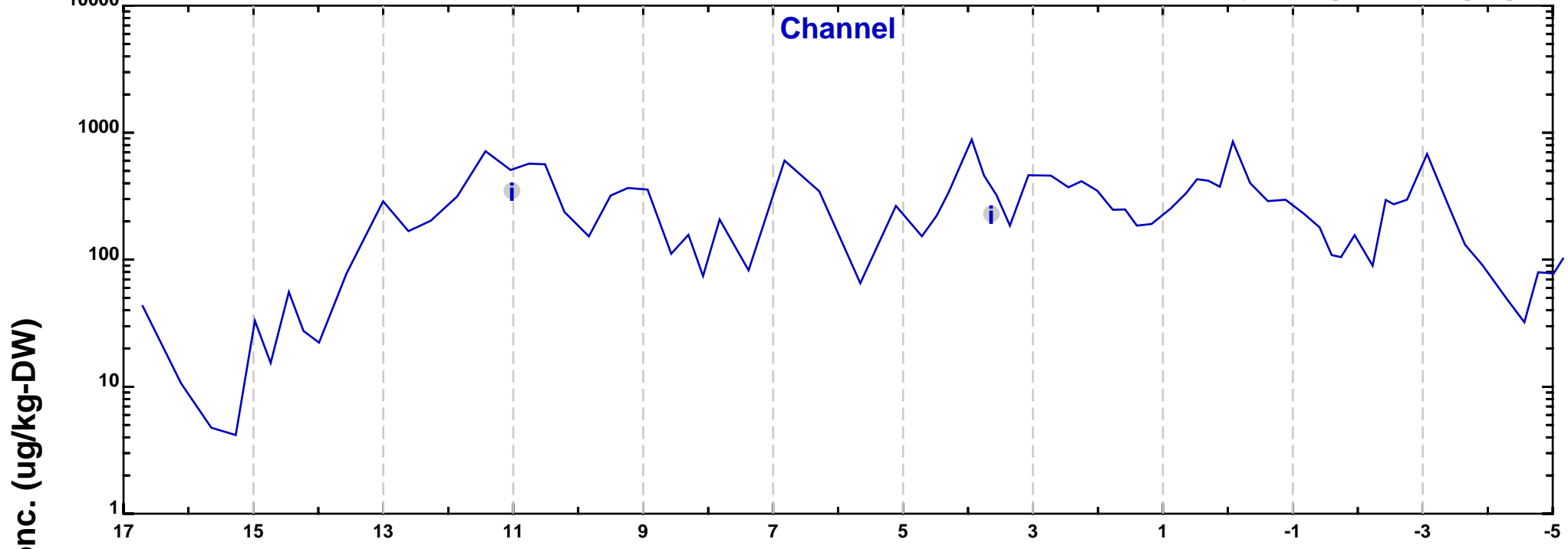
East Newark Bay shoal



River Mile

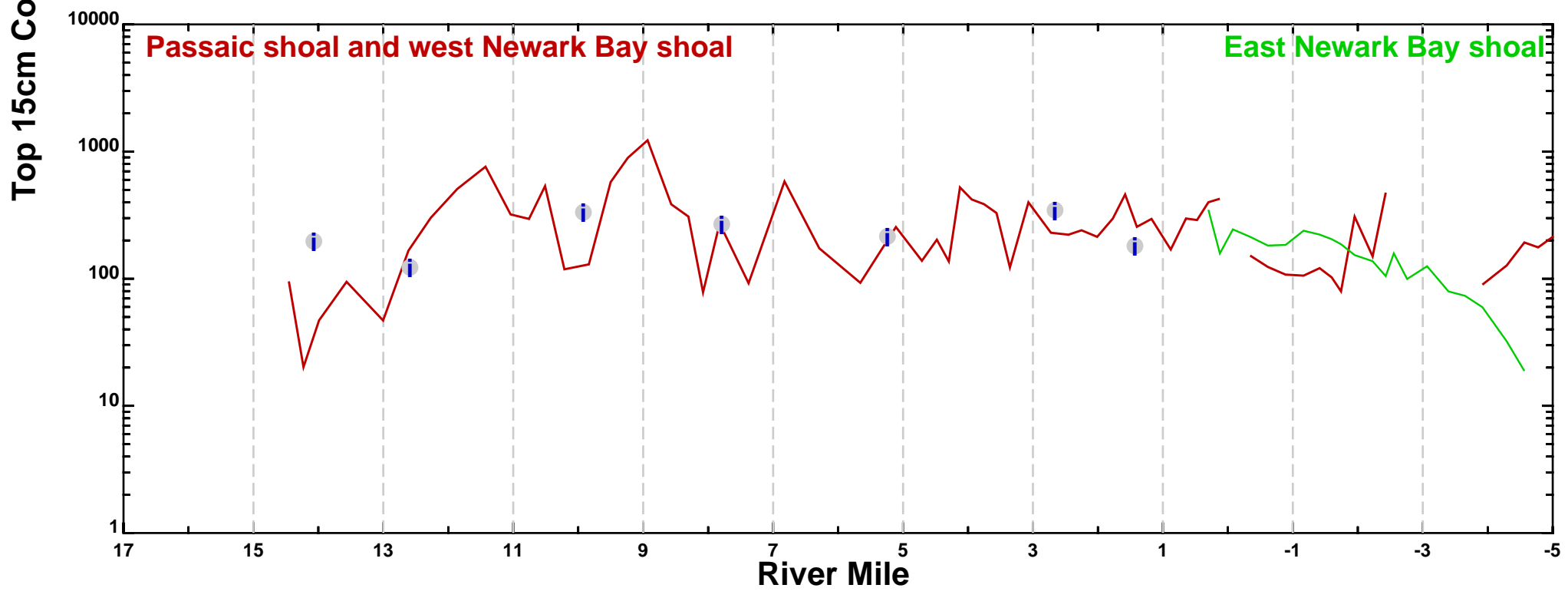
Year =2007.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



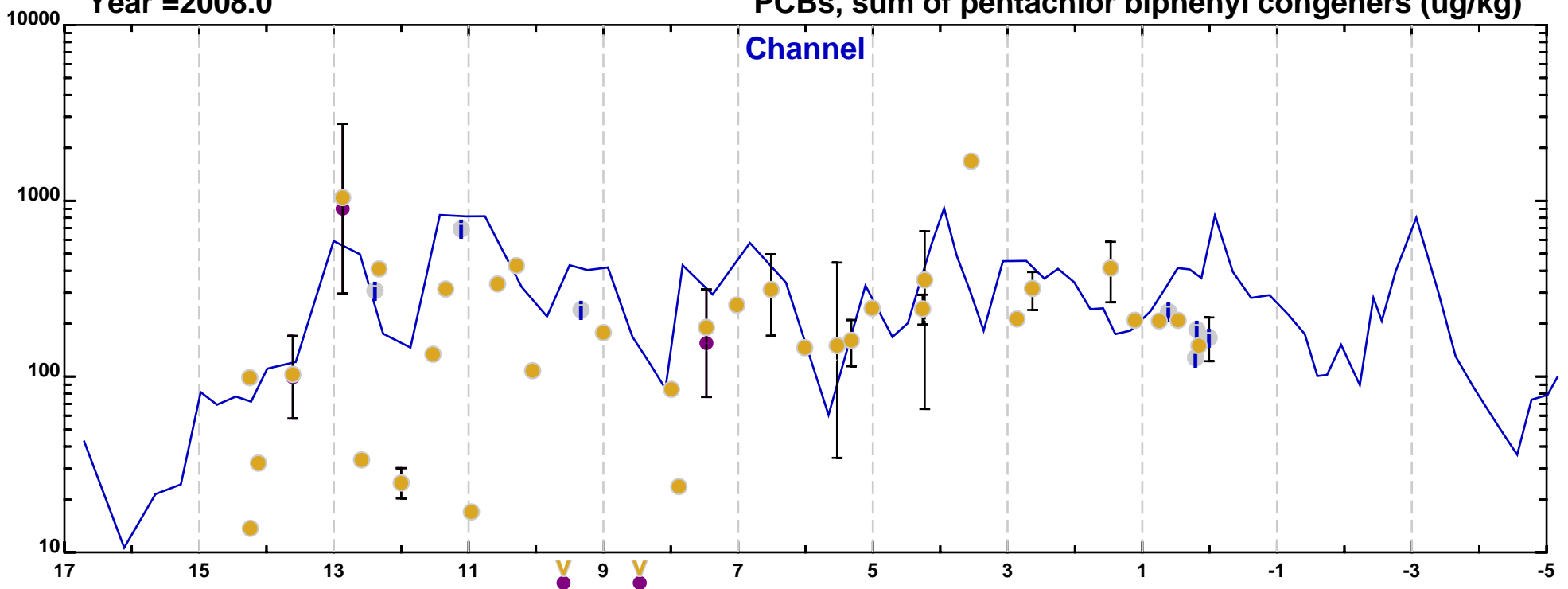
River Mile

Year =2008.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)

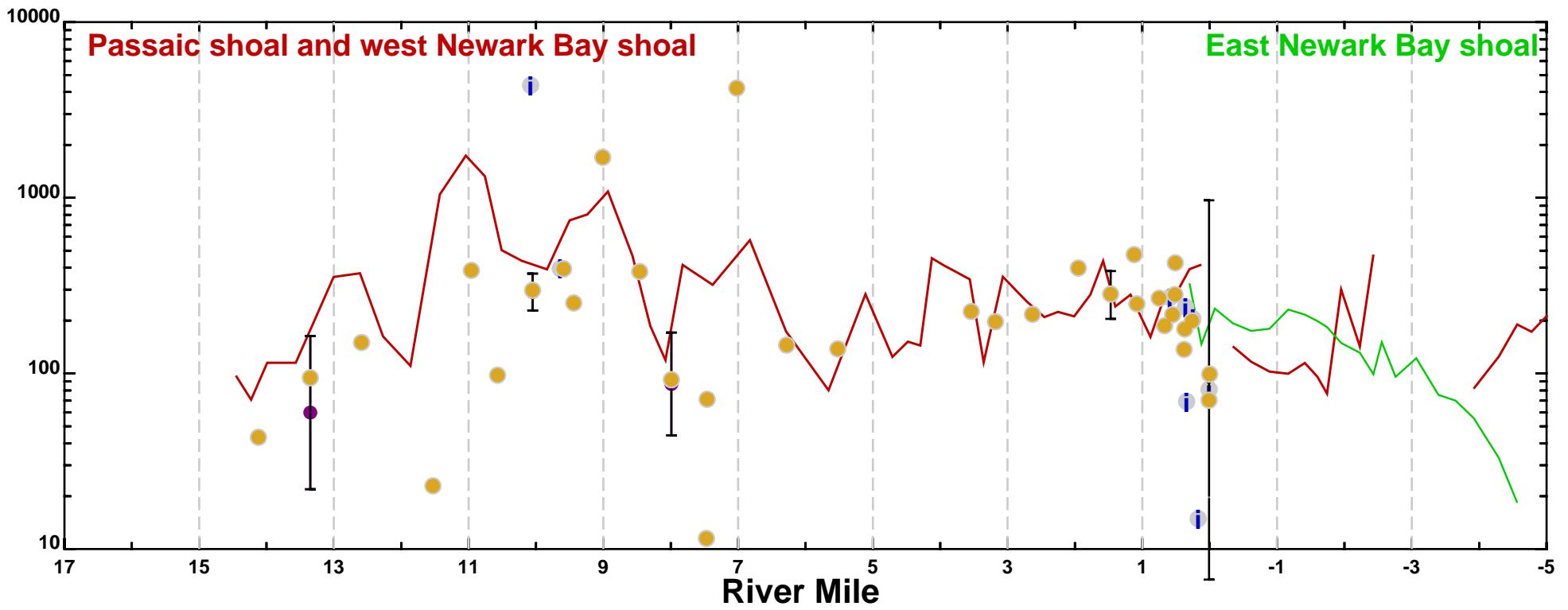
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

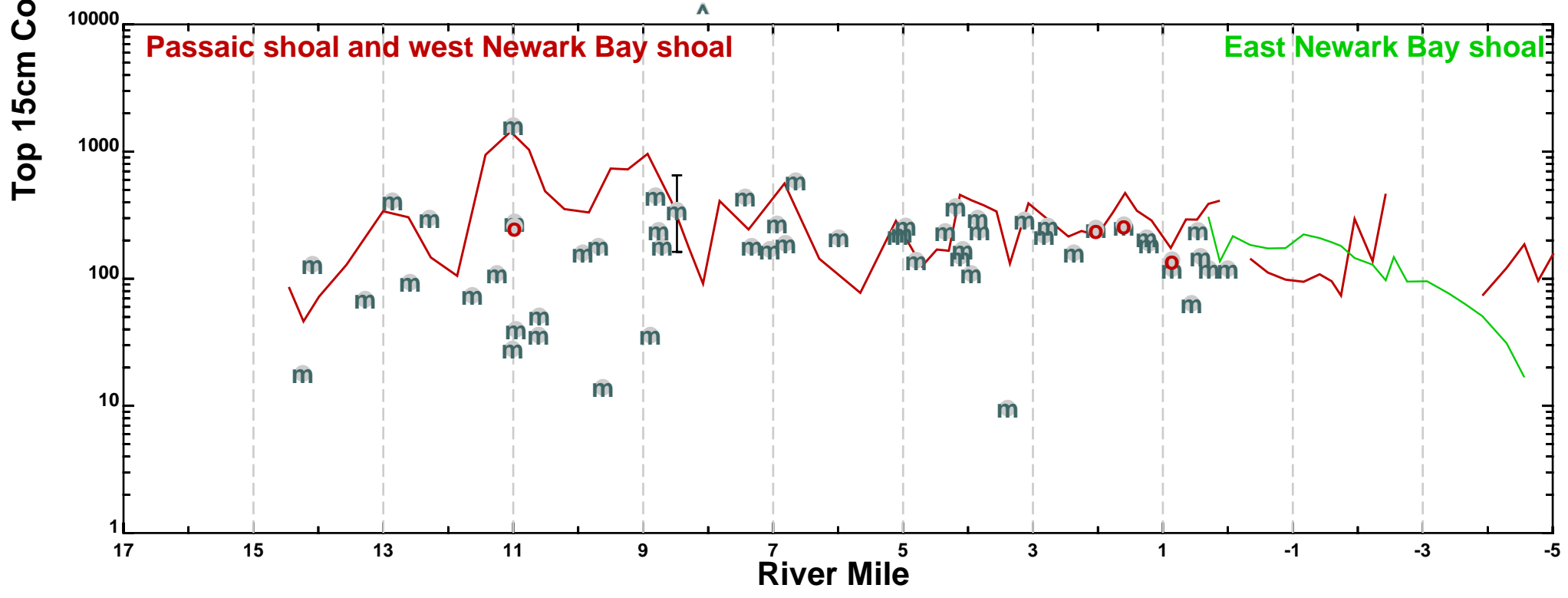
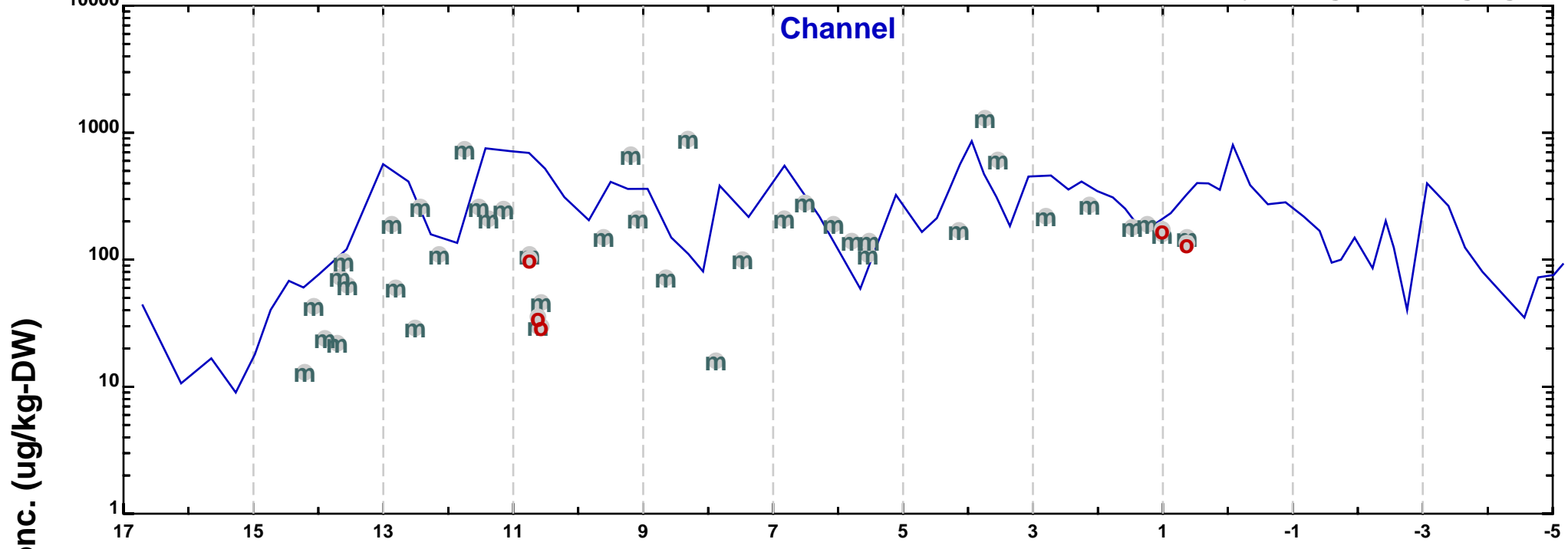
East Newark Bay shoal





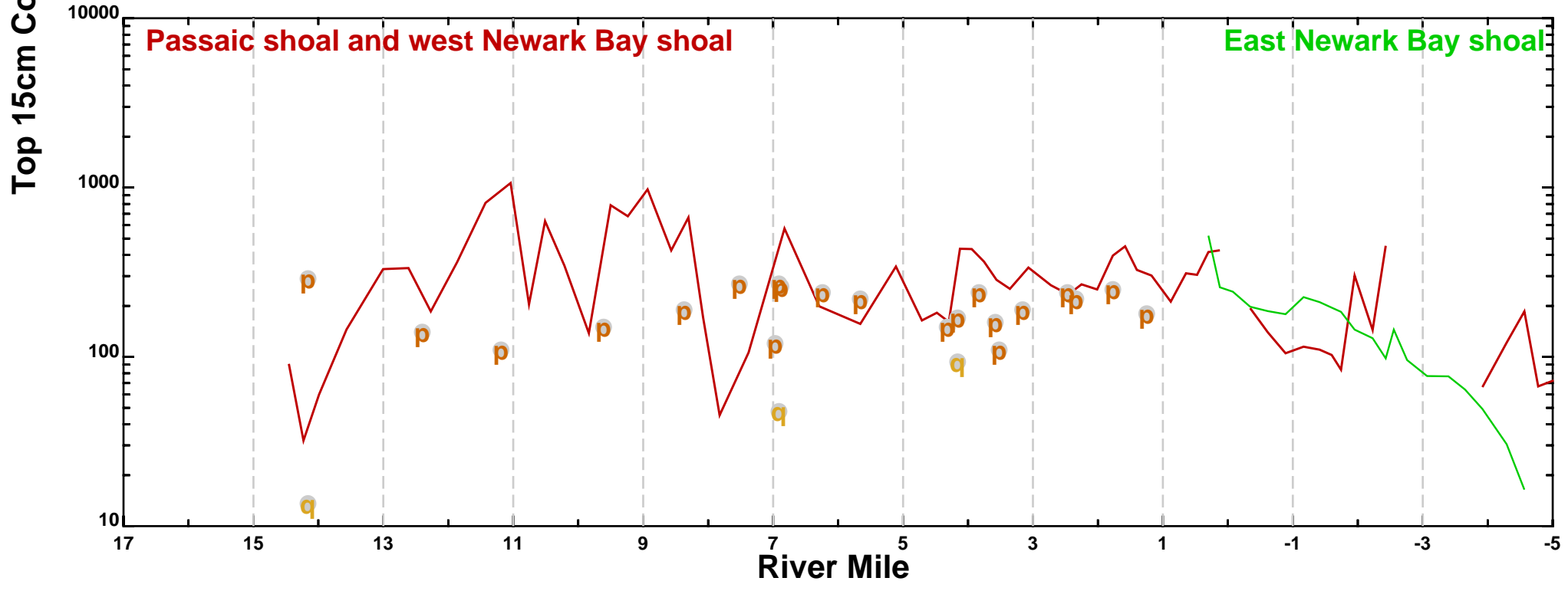
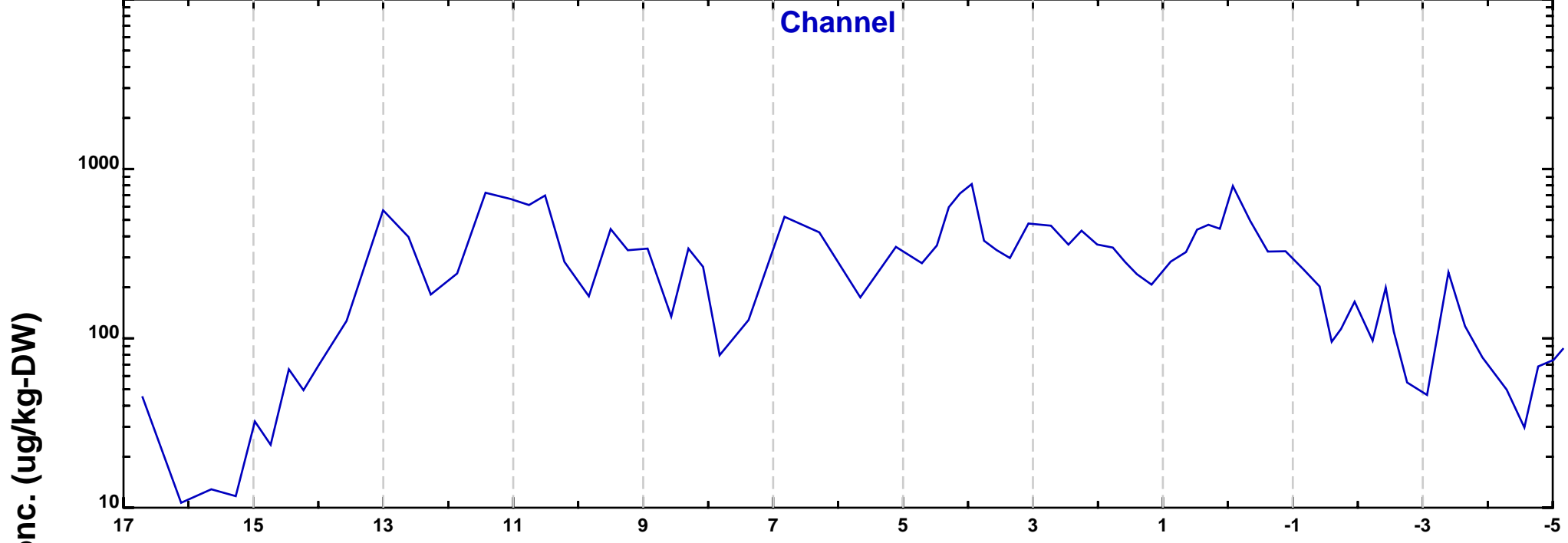
Year =2009.0

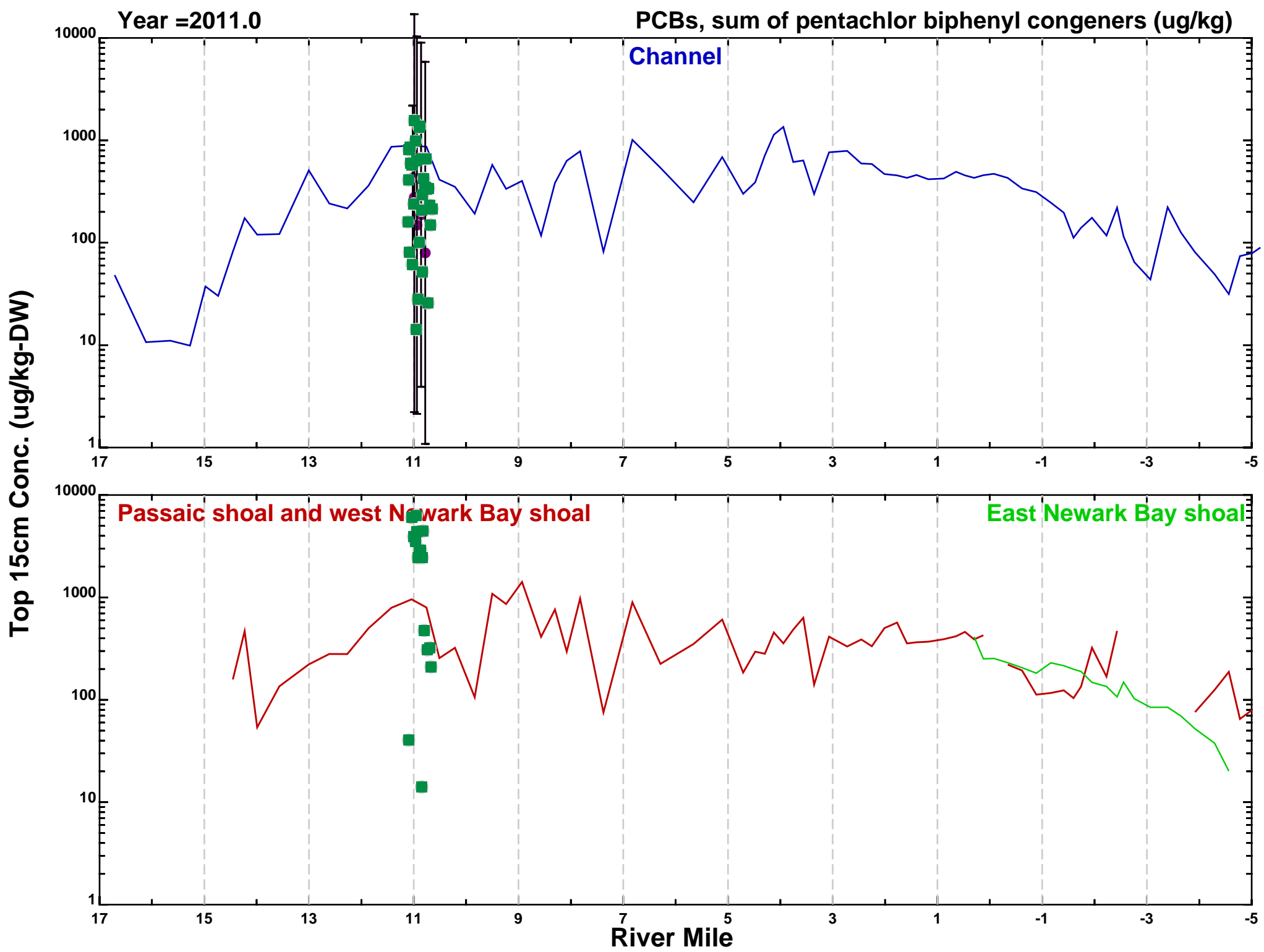
PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Year = 2010.0

PCBs, sum of pentachlor biphenyl congeners (ug/kg)

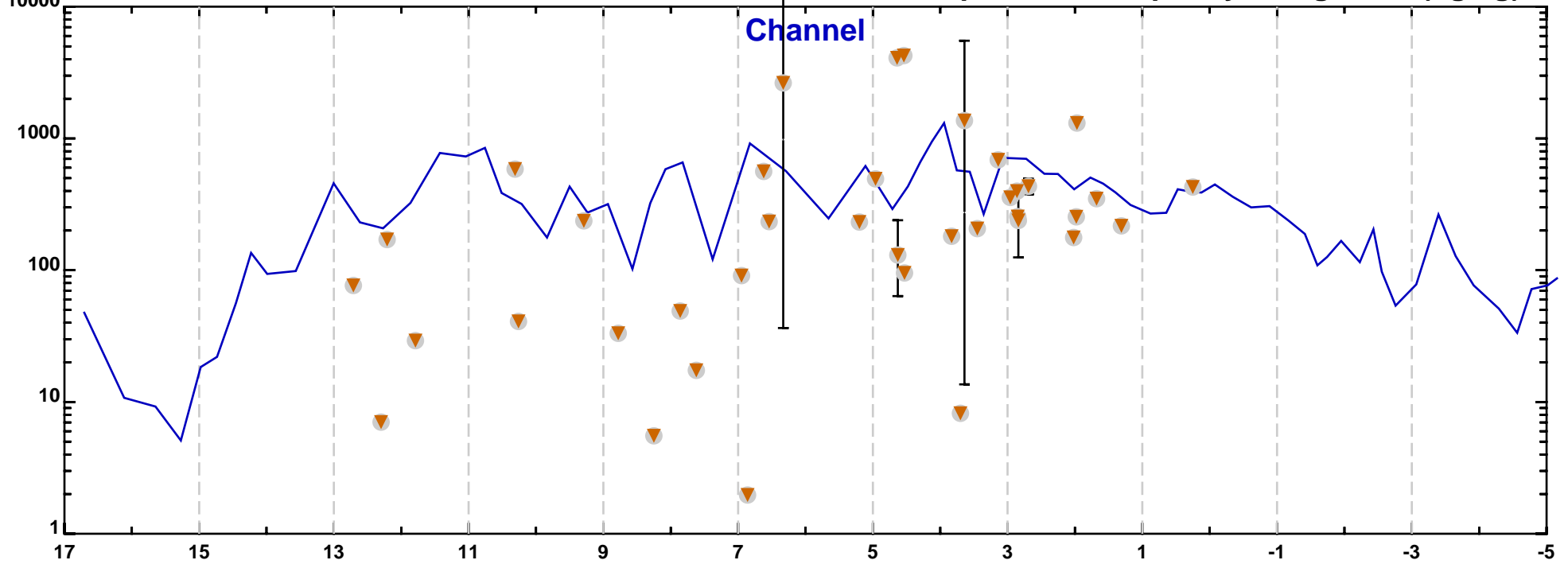




Year =2012.0

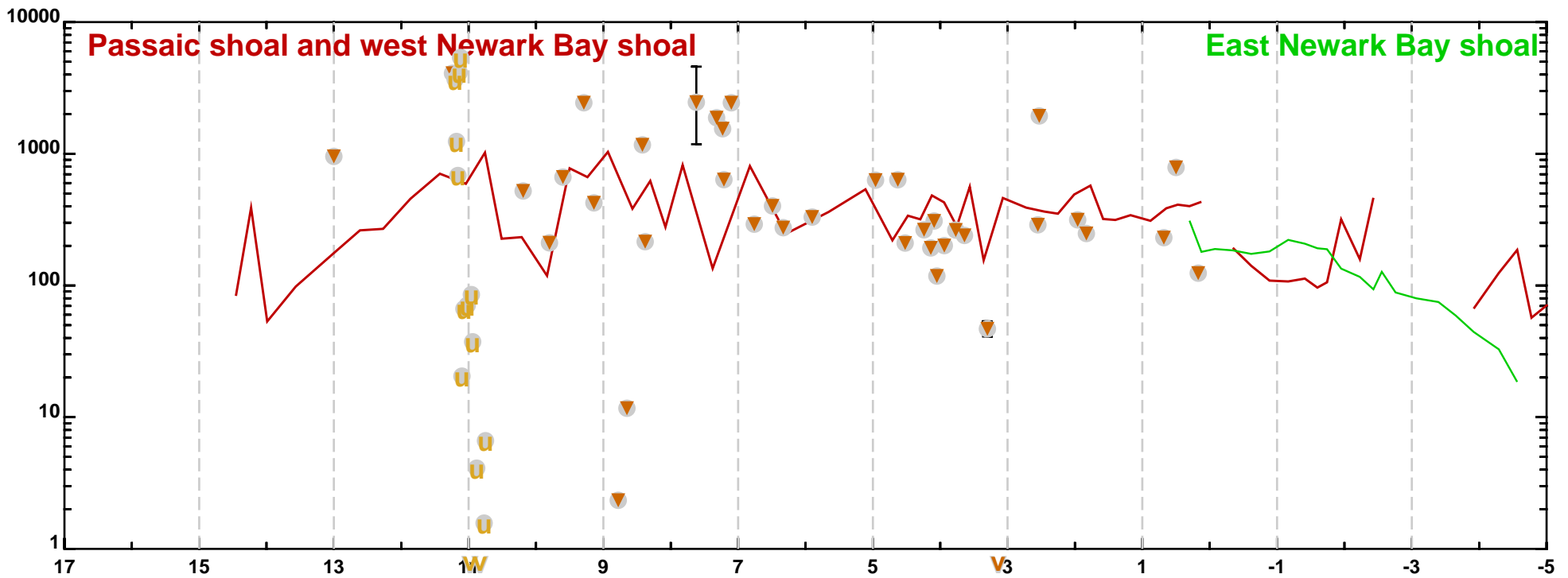
PCBs, sum of pentachlor biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

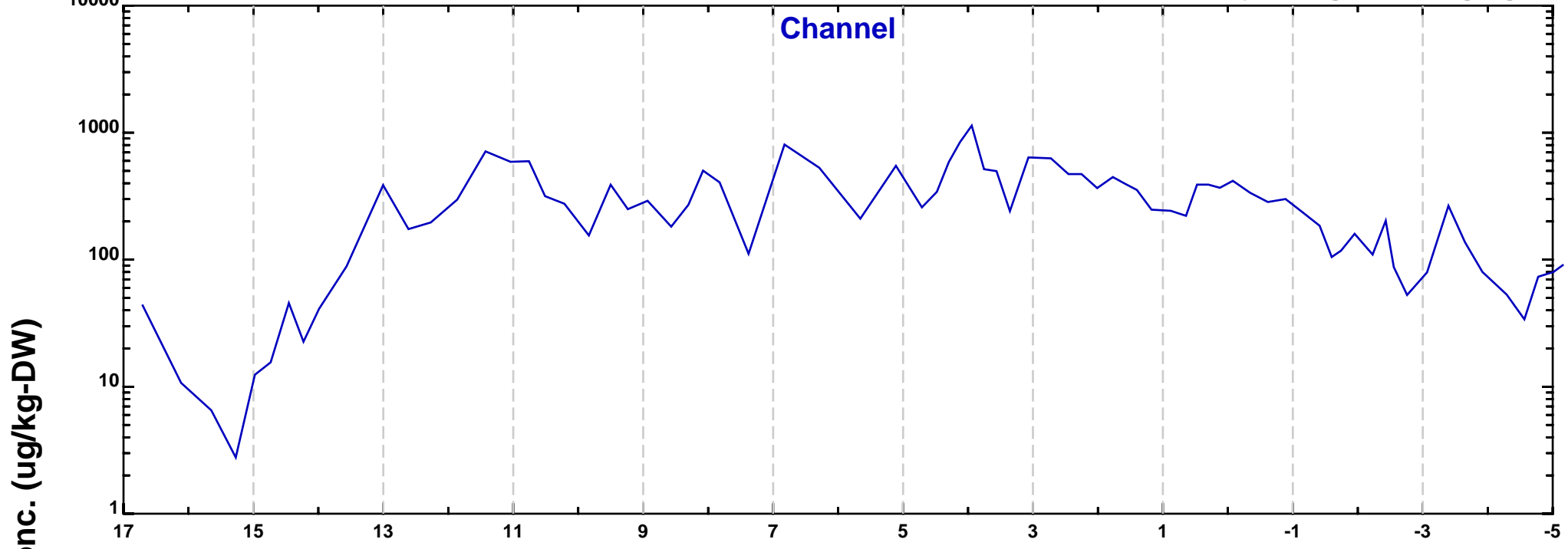
East Newark Bay shoal



River Mile

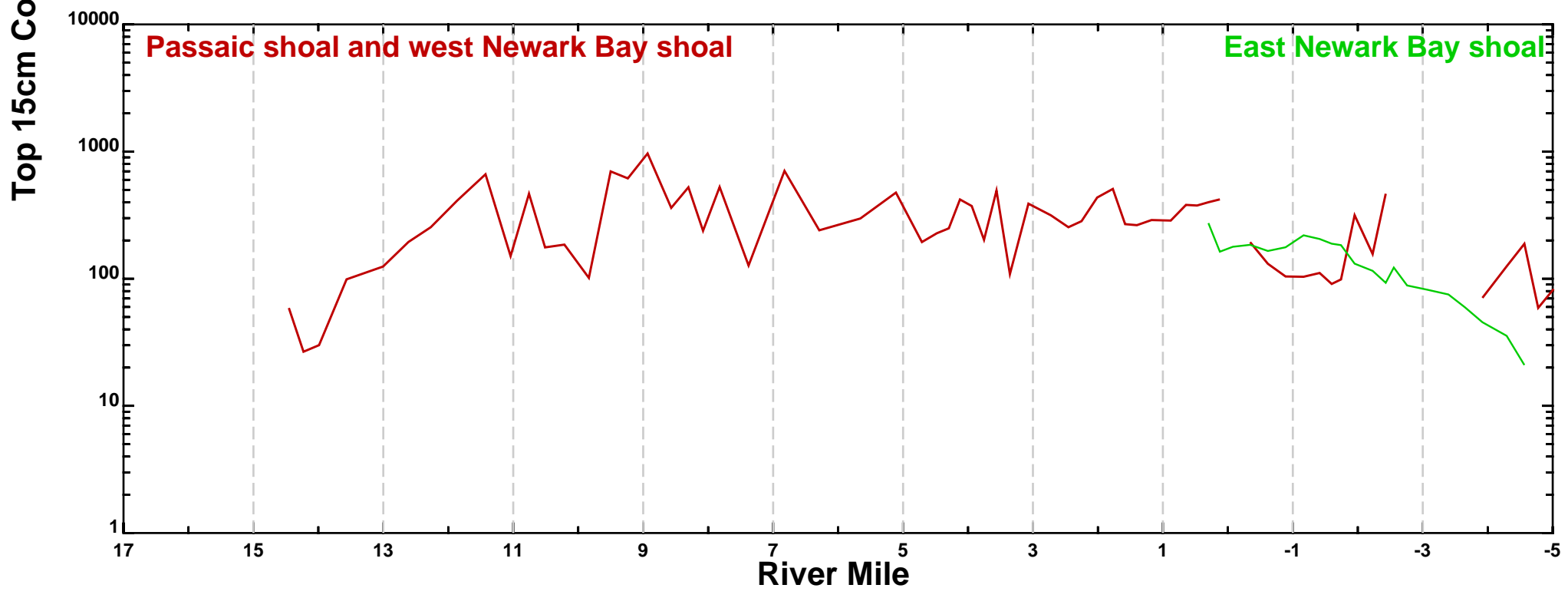
Year =2013.0

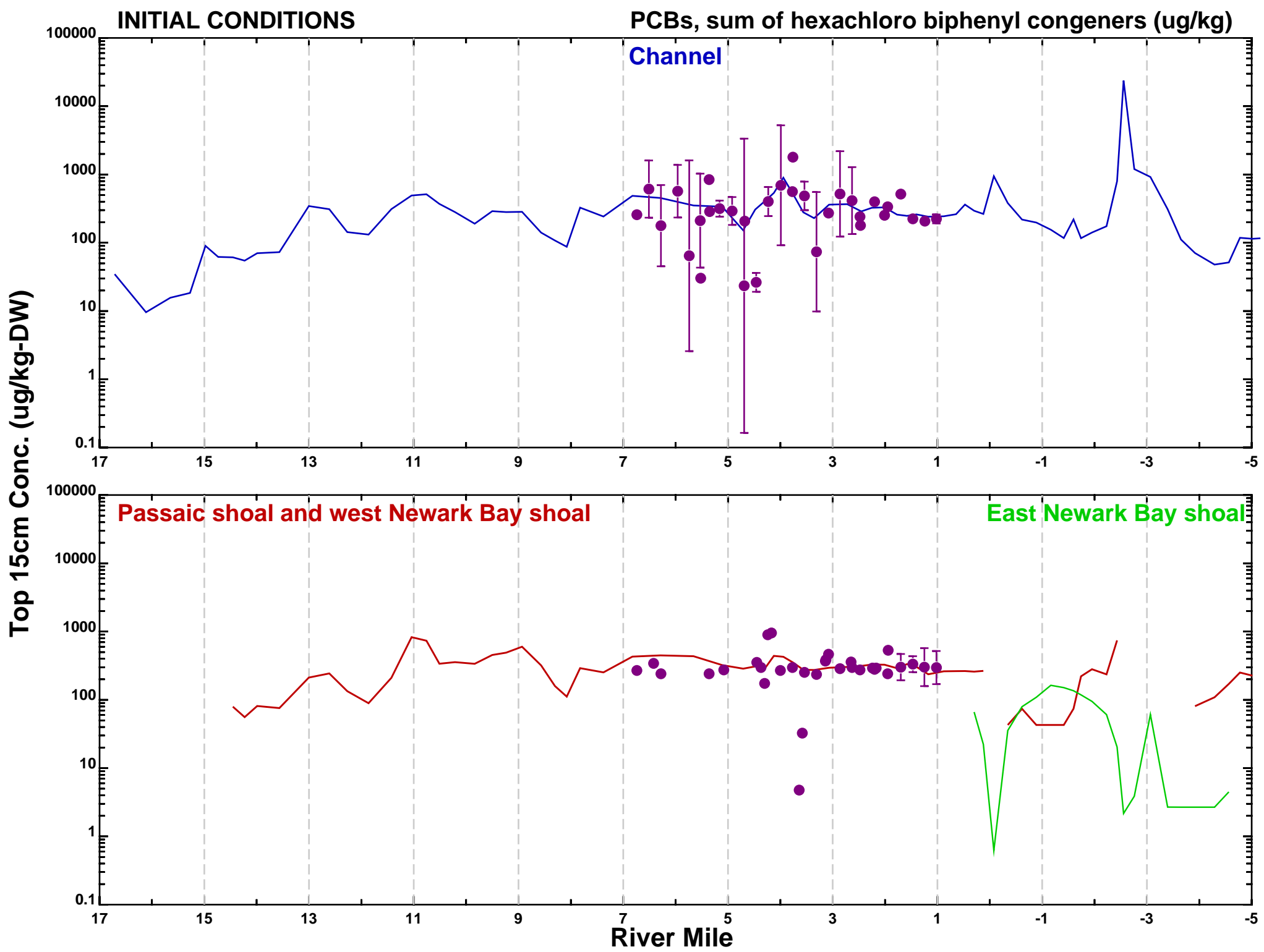
PCBs, sum of pentachlor biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

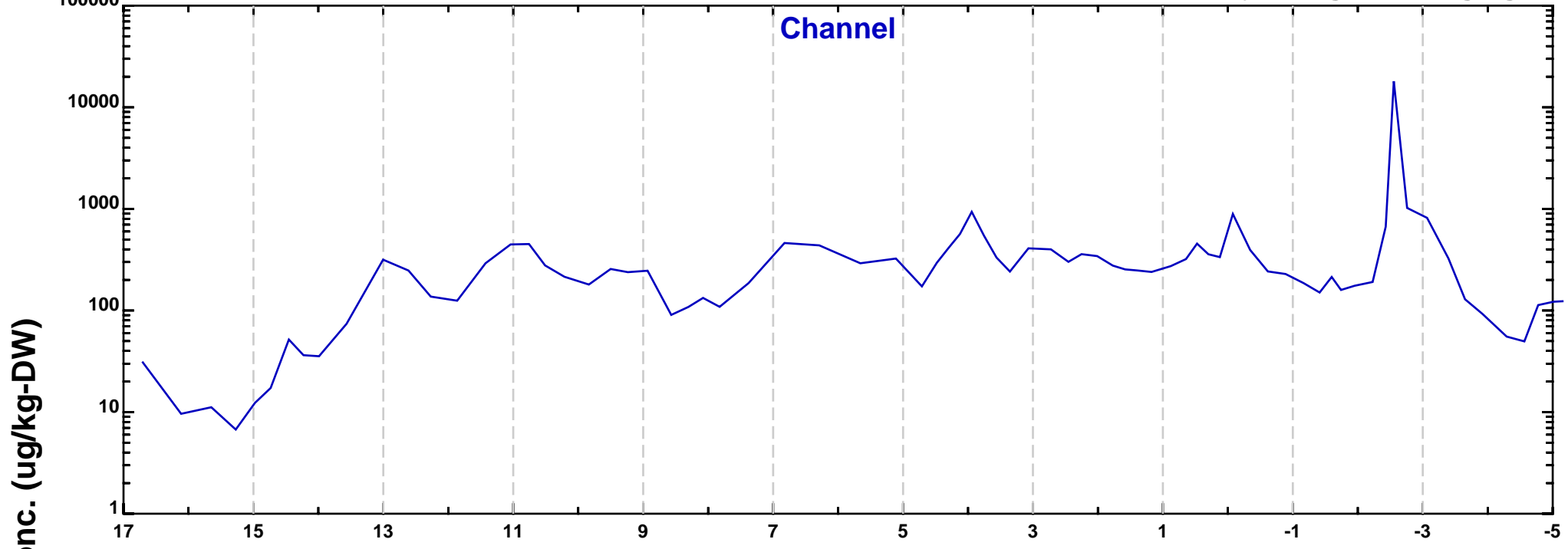
East Newark Bay shoal





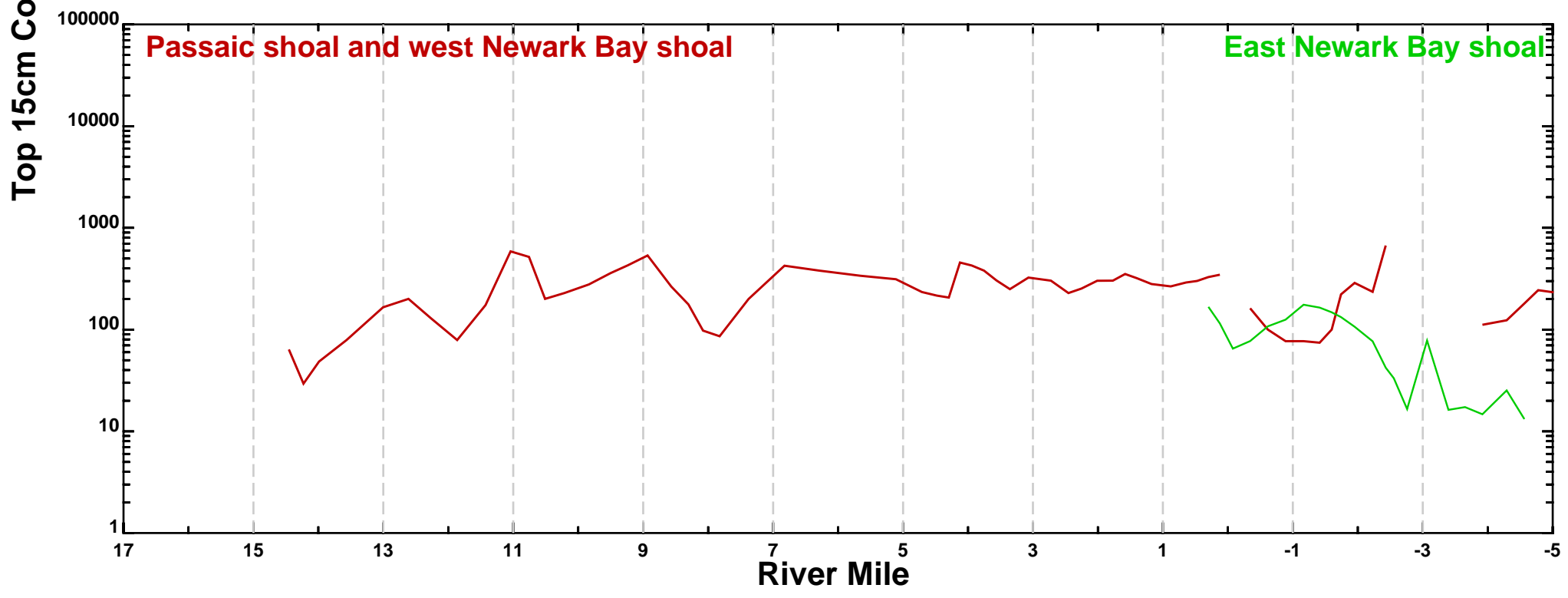
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



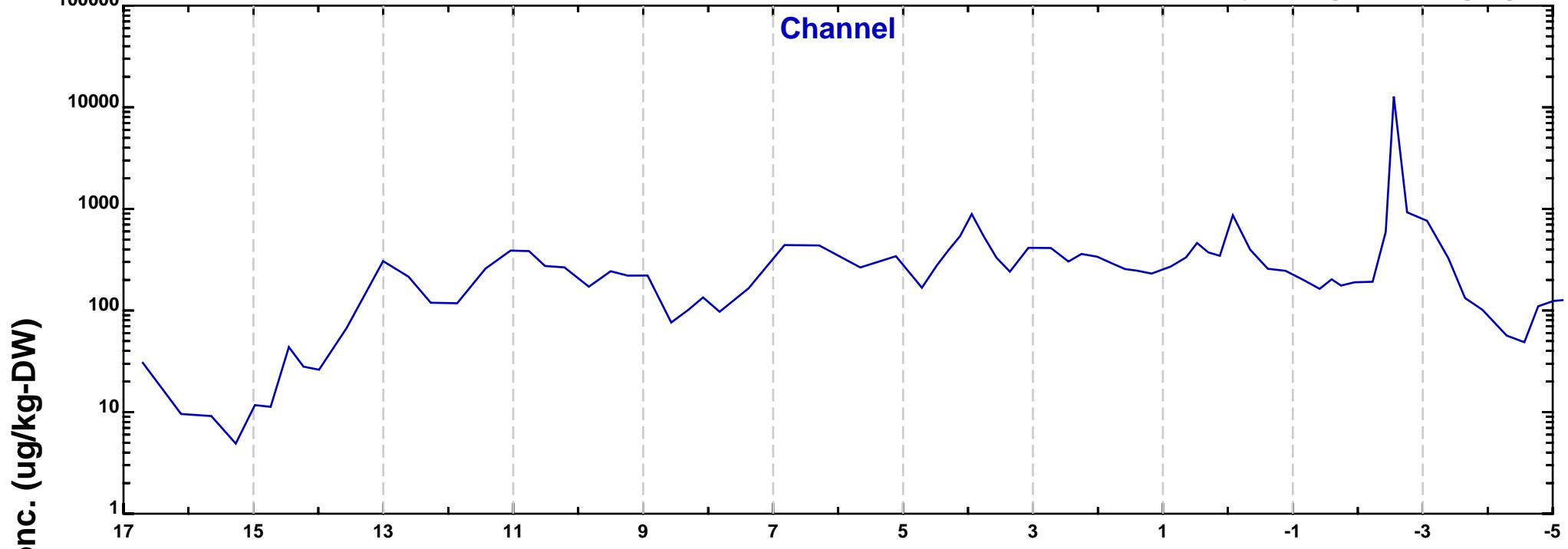
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



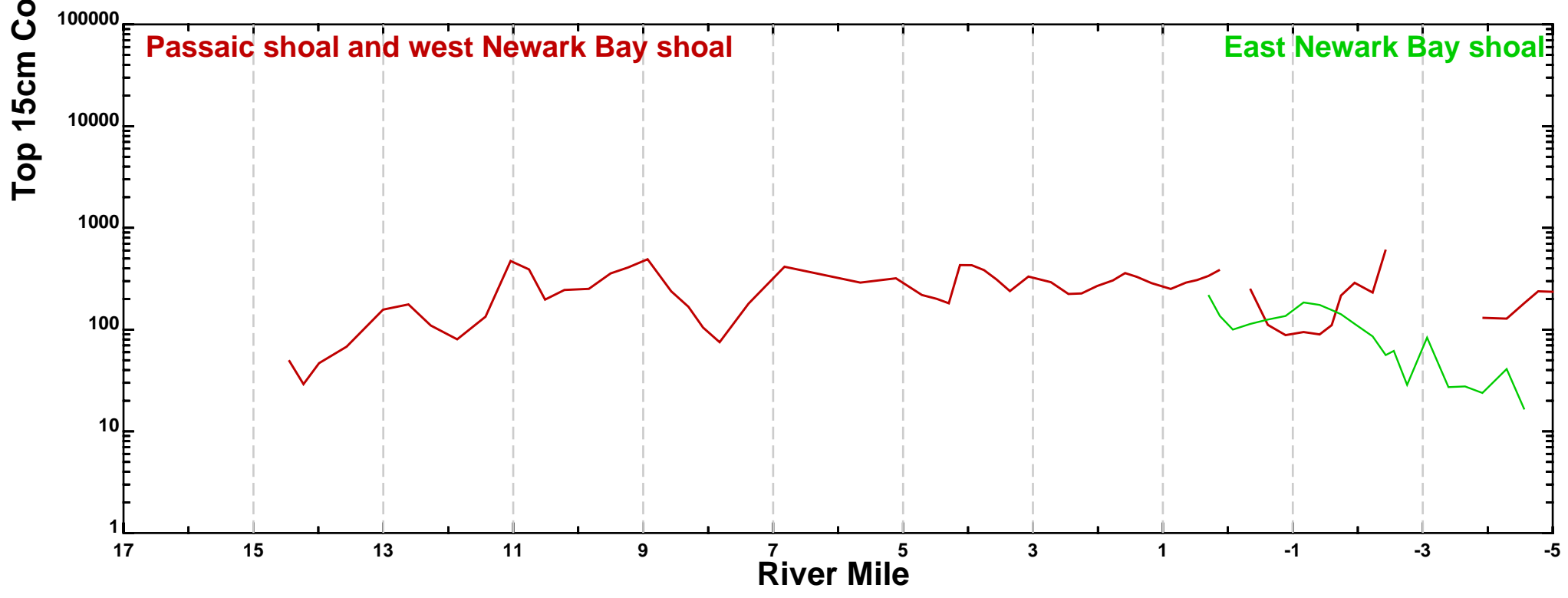
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

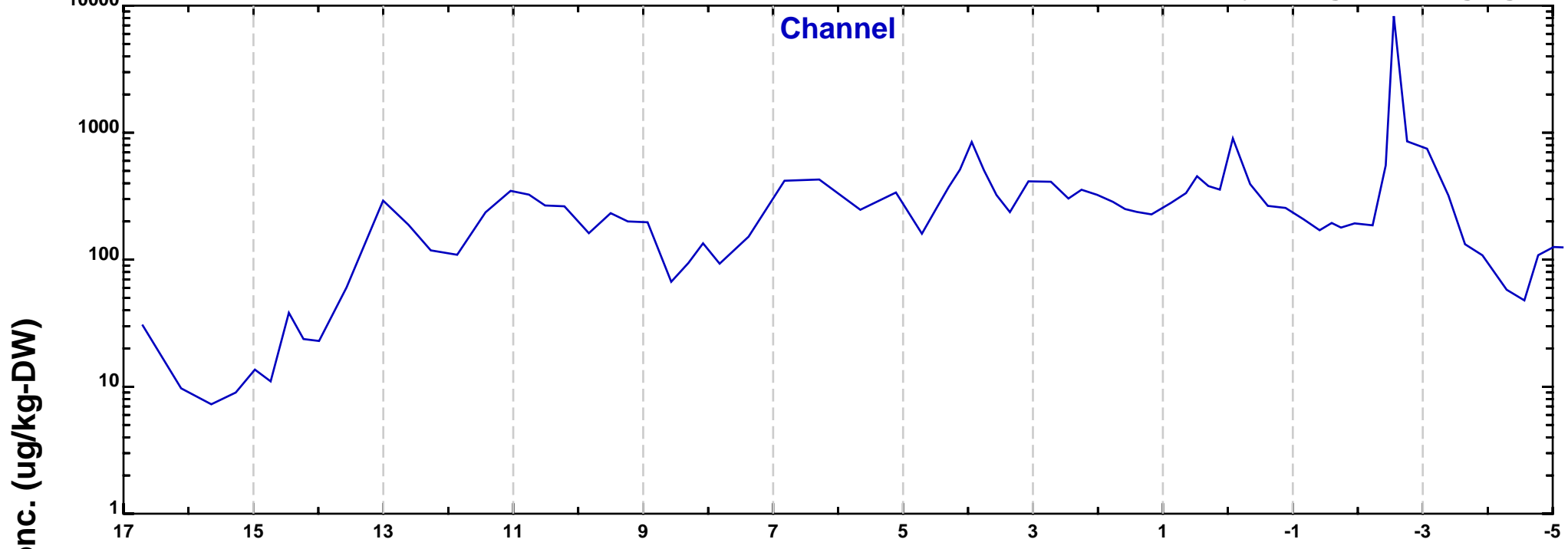
East Newark Bay shoal





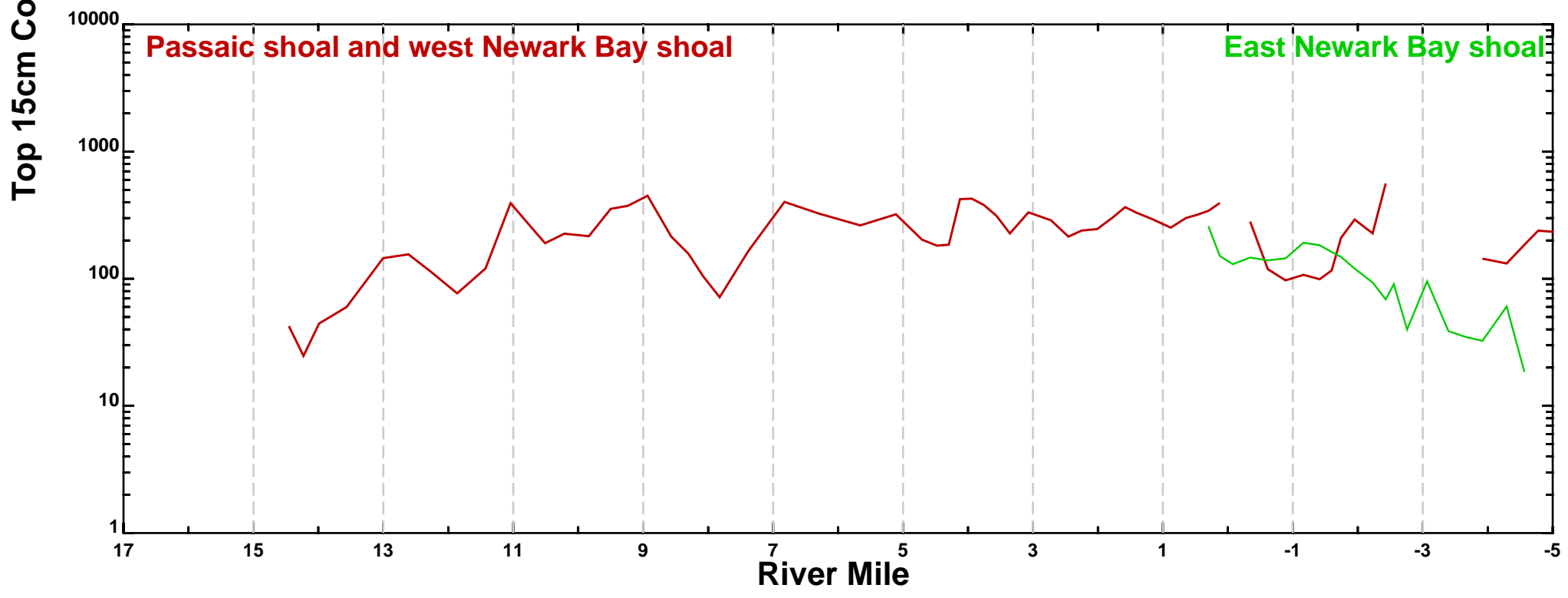
Year =1998.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

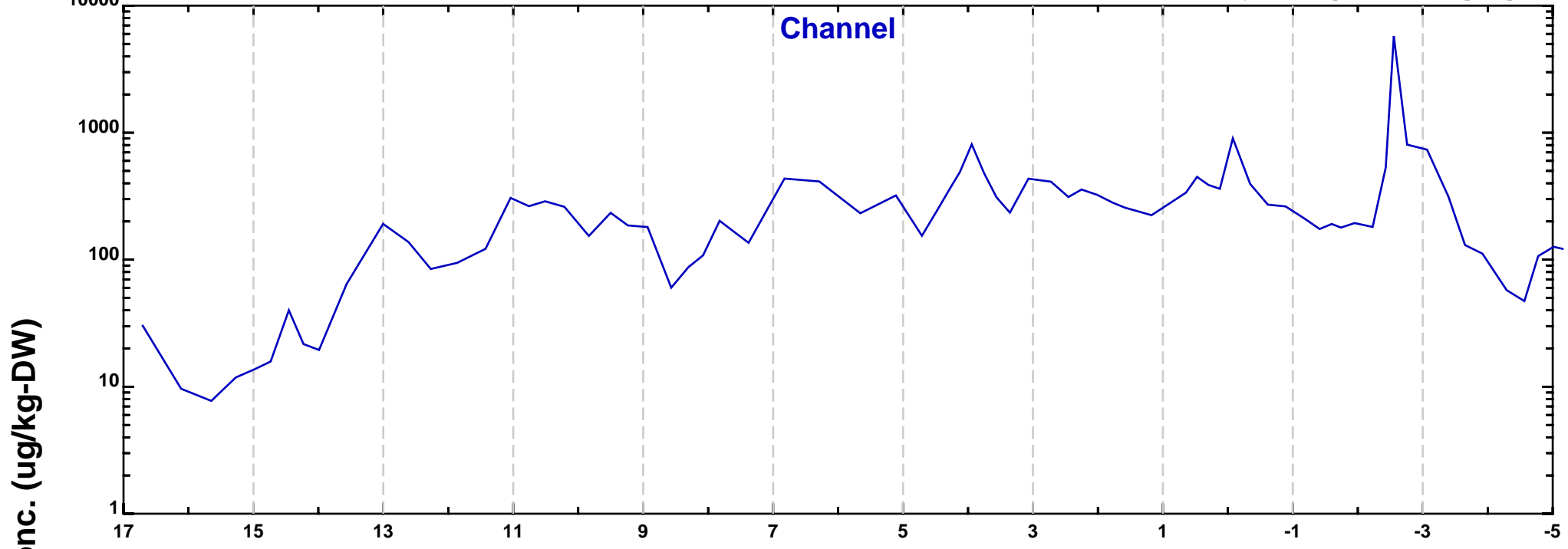
East Newark Bay shoal



River Mile

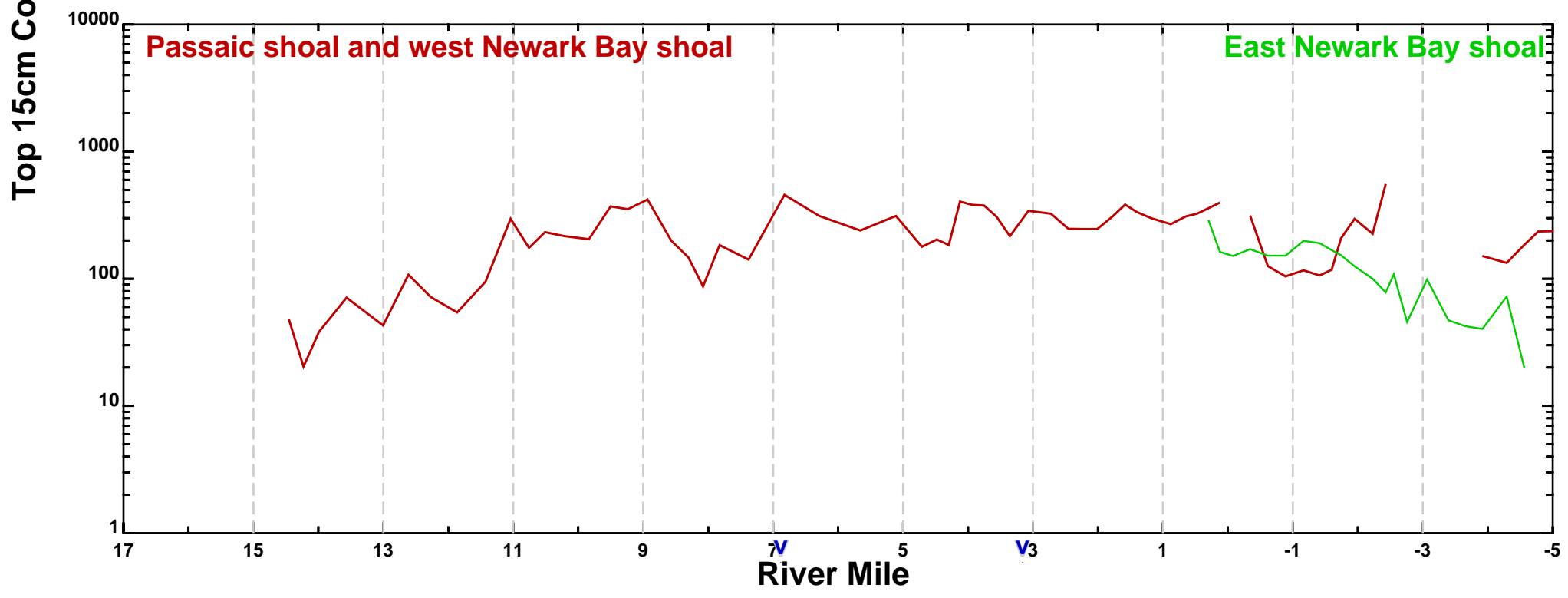
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

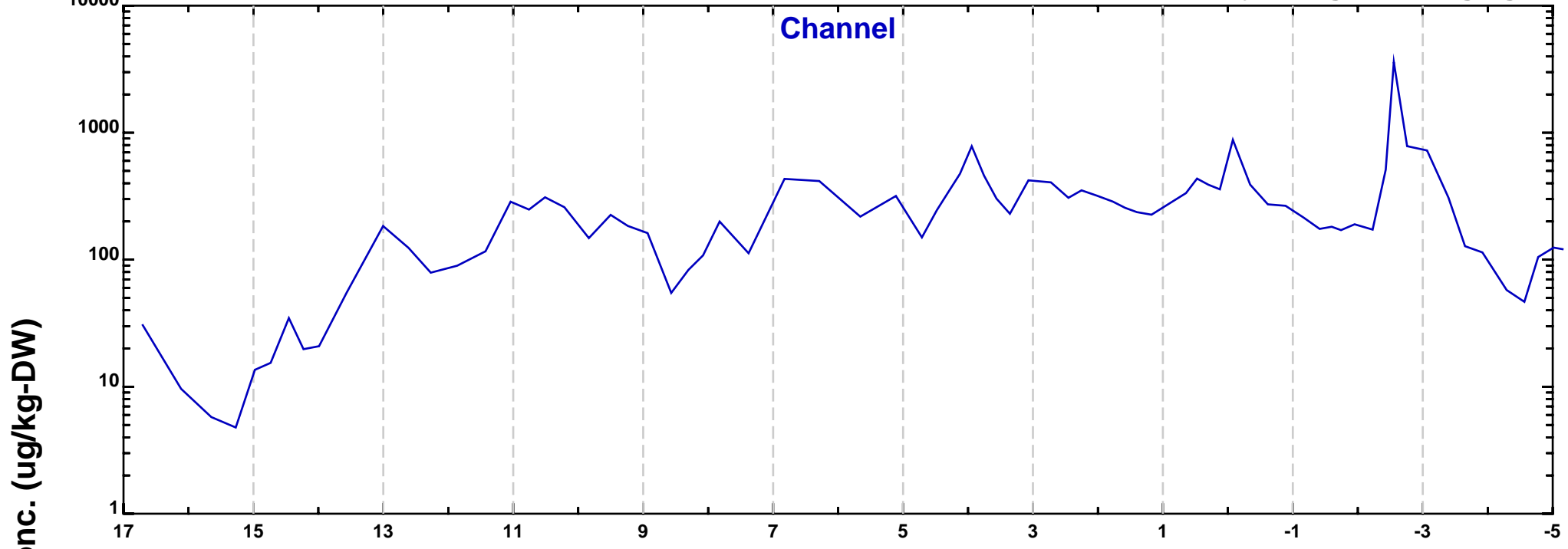
East Newark Bay shoal



River Mile

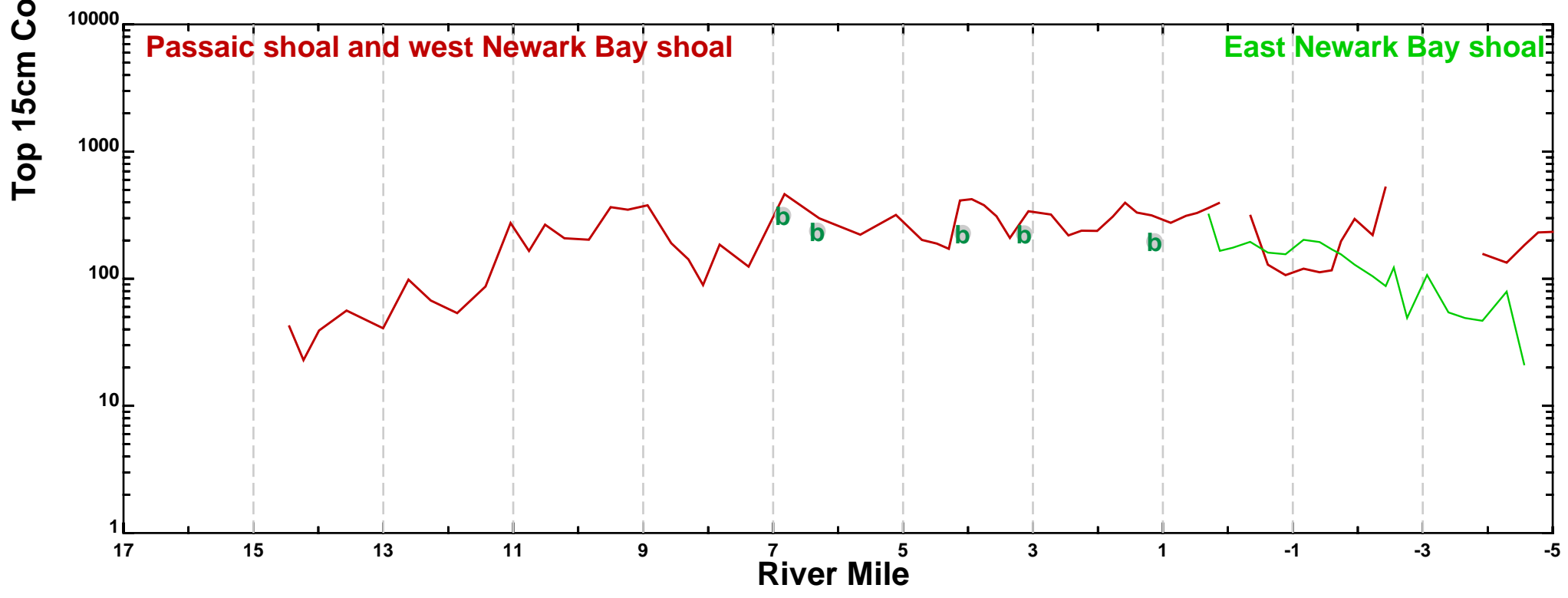
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

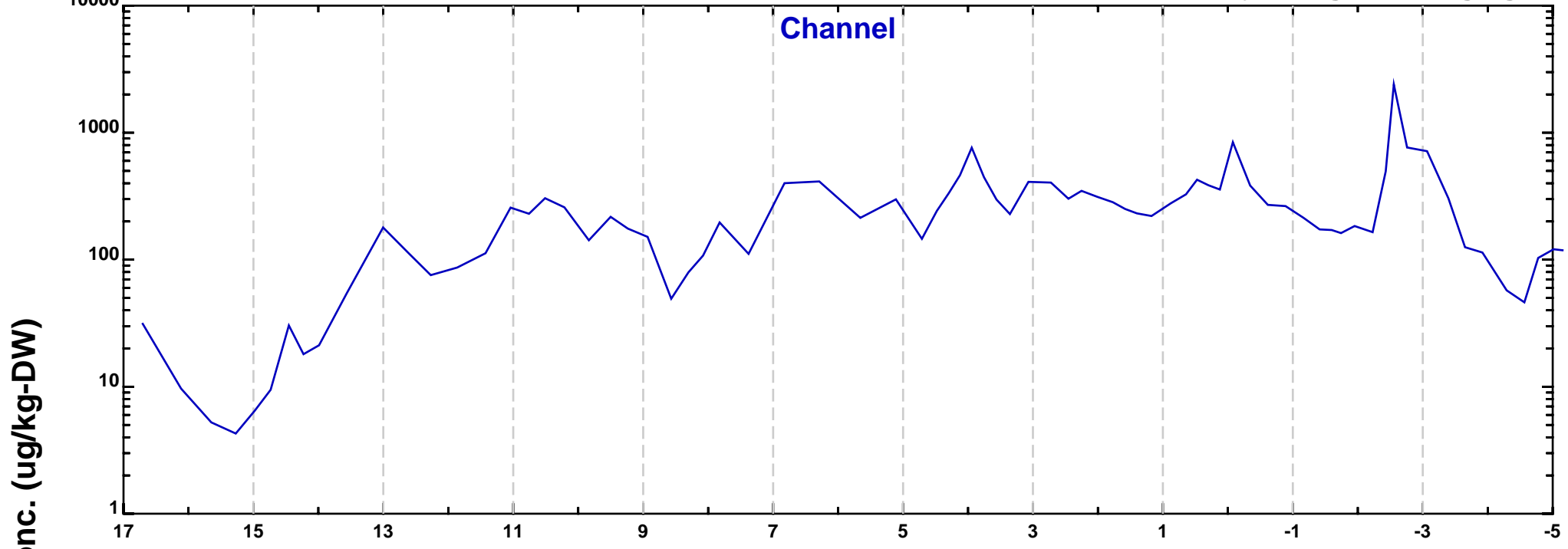
East Newark Bay shoal



River Mile

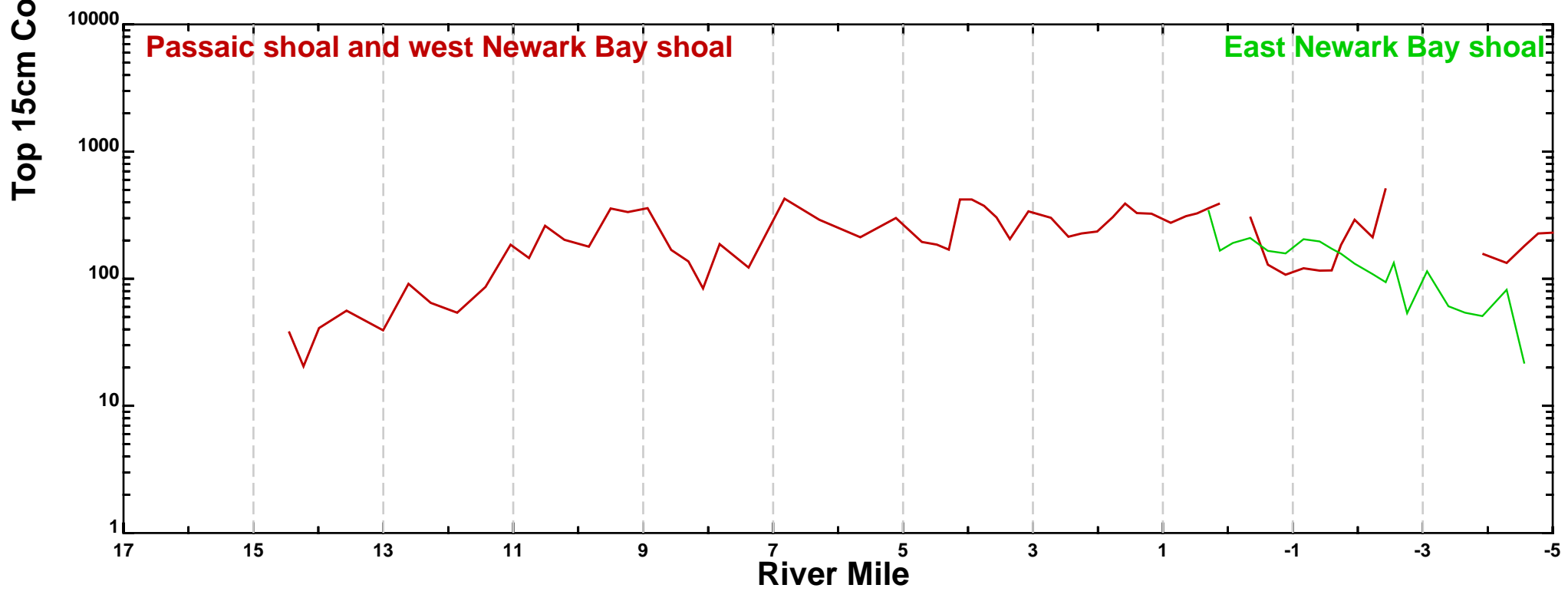
Year =2001.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)



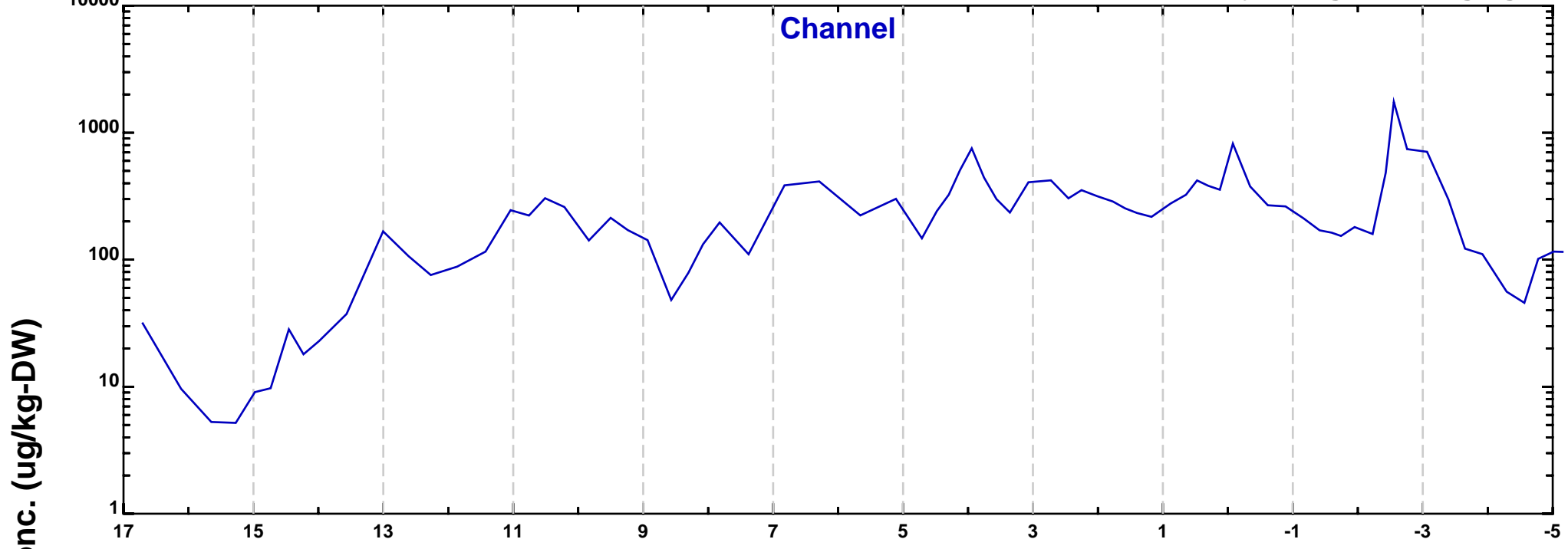
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



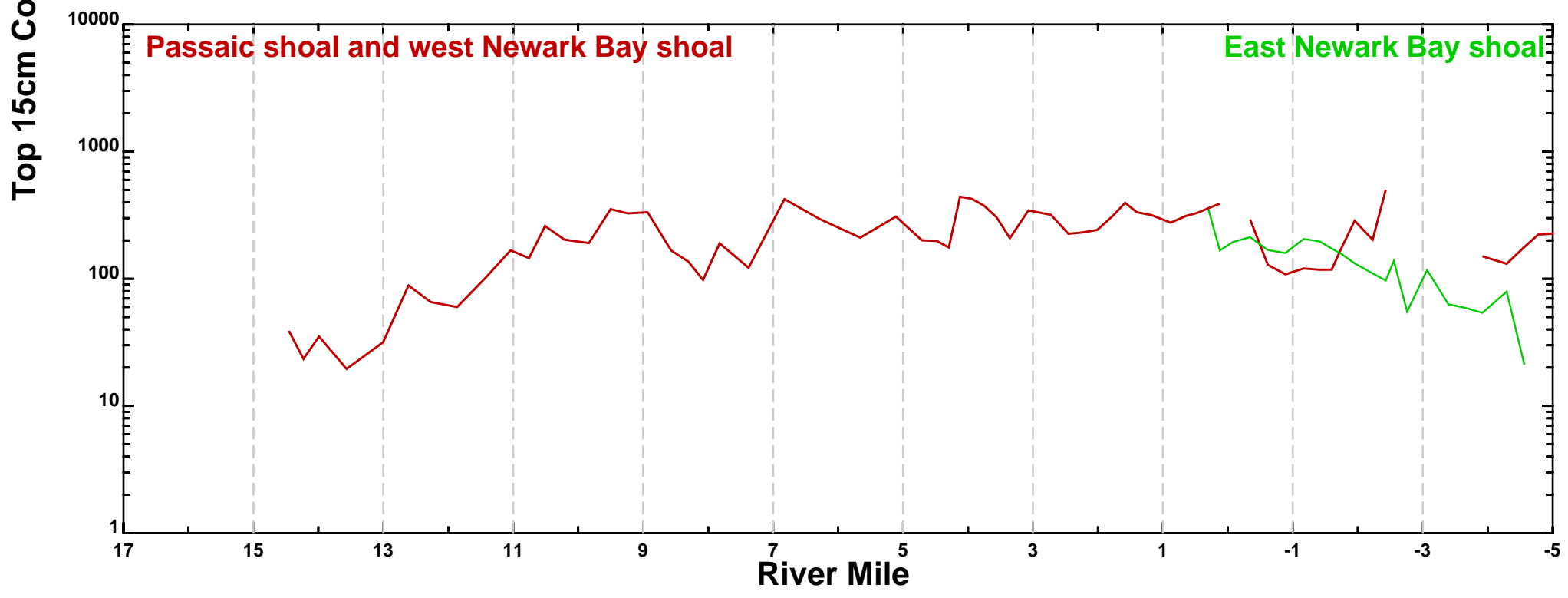
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

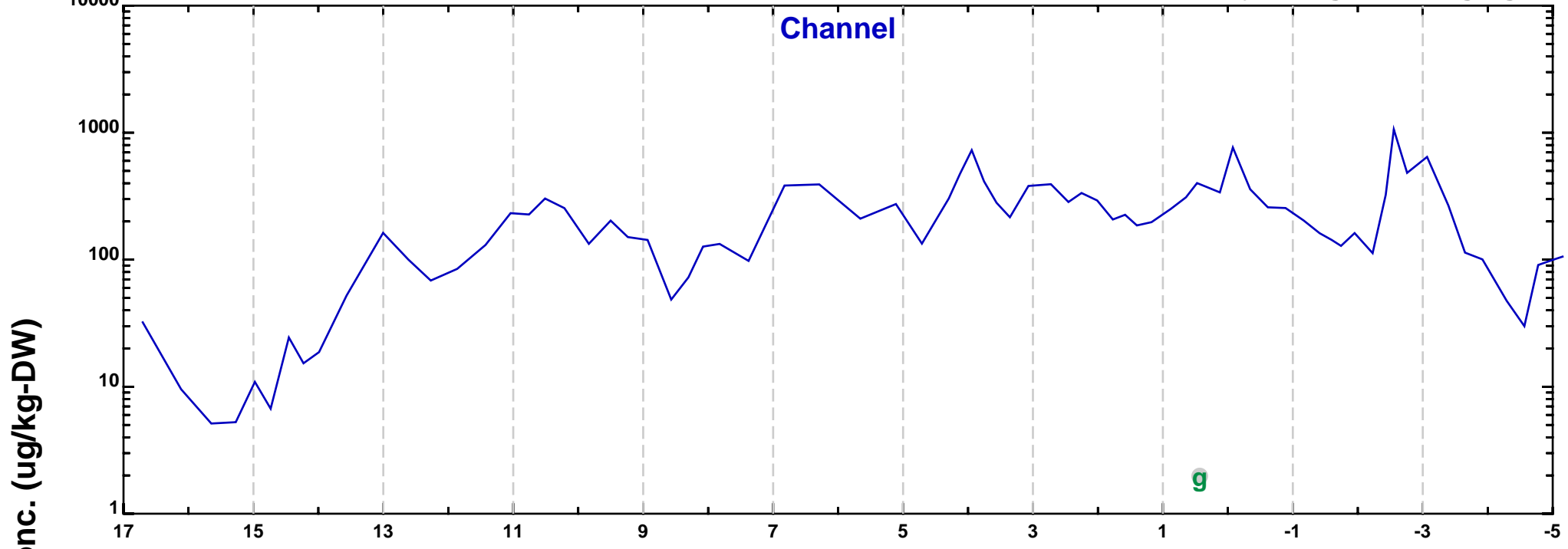
East Newark Bay shoal



River Mile

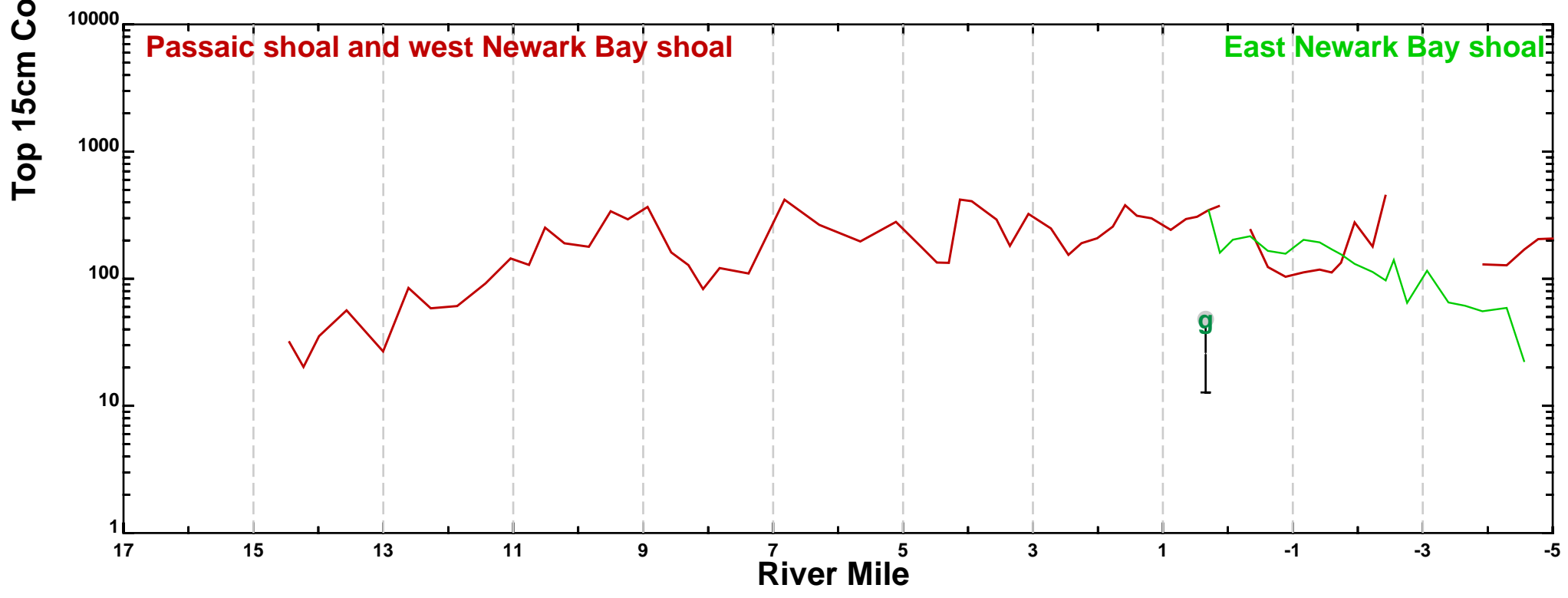
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



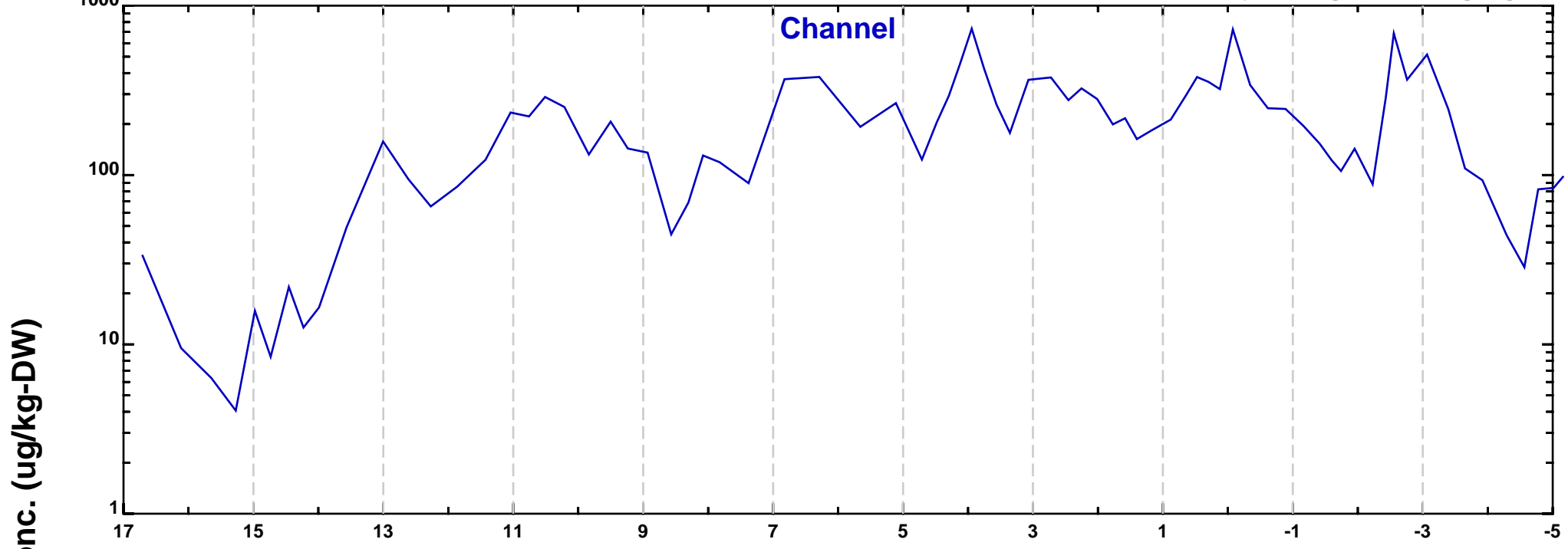
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



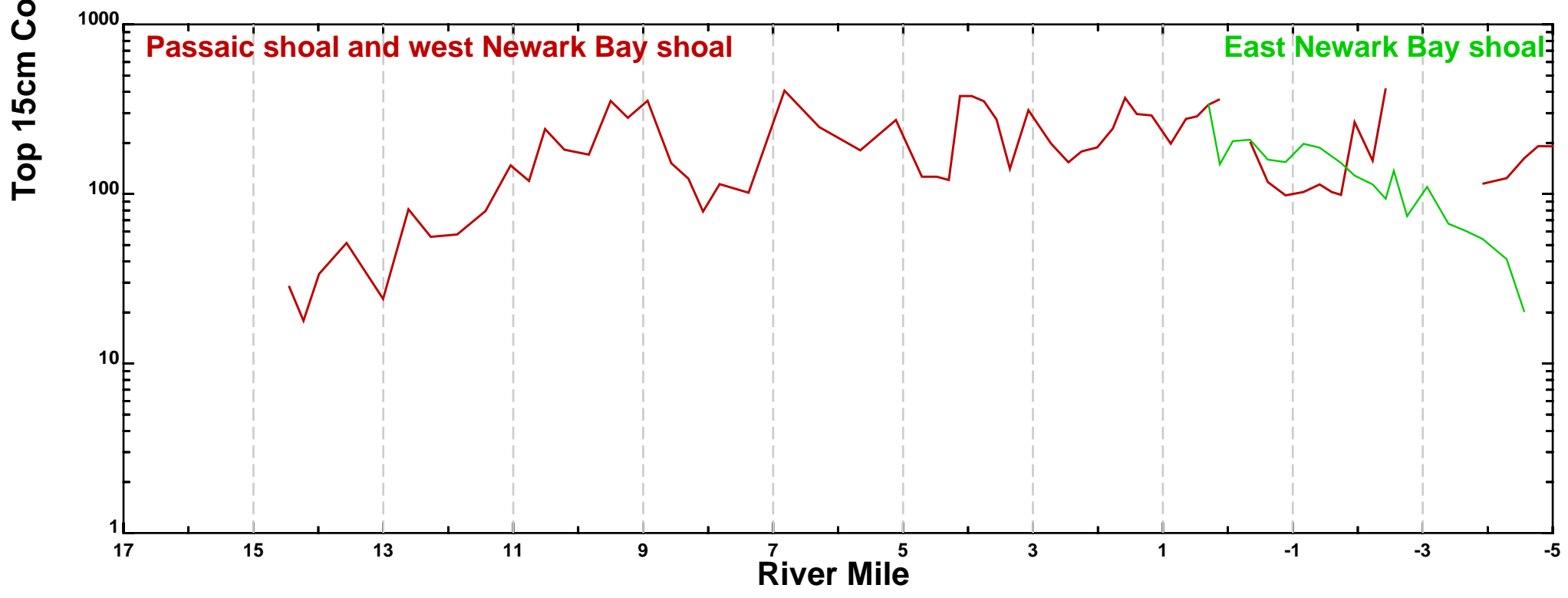
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

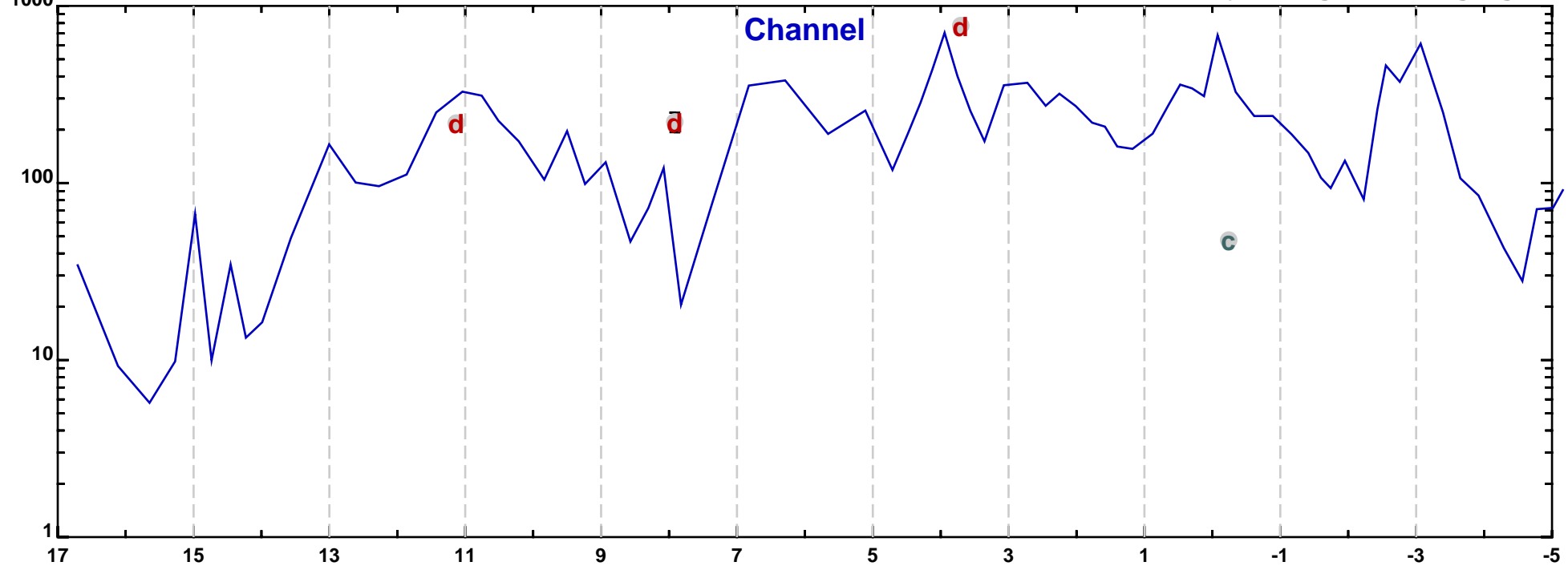


River Mile

Year =2005.0

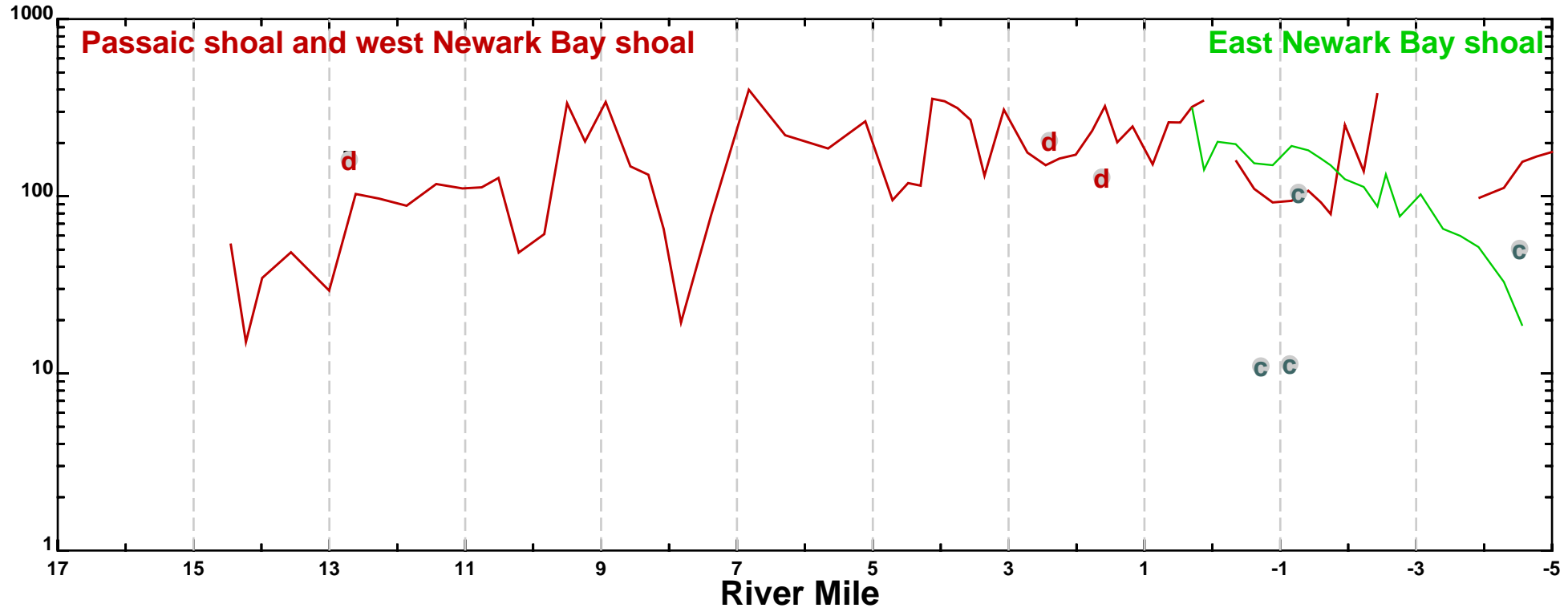
PCBs, sum of hexachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

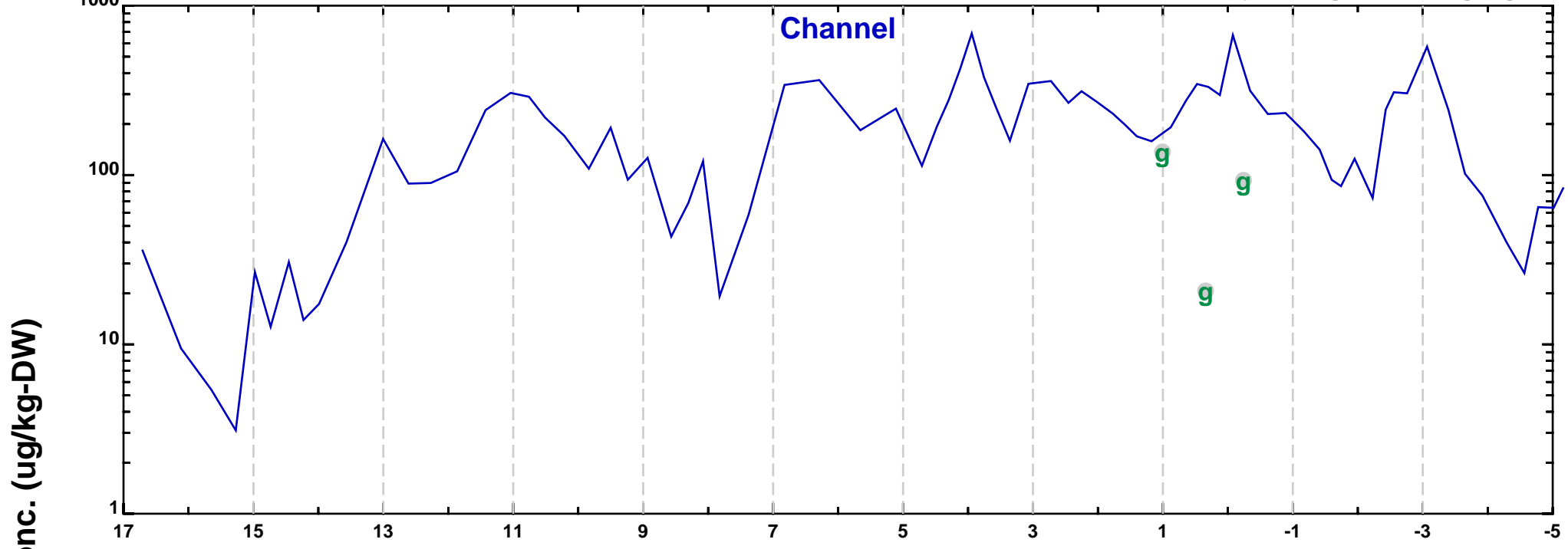


River Mile



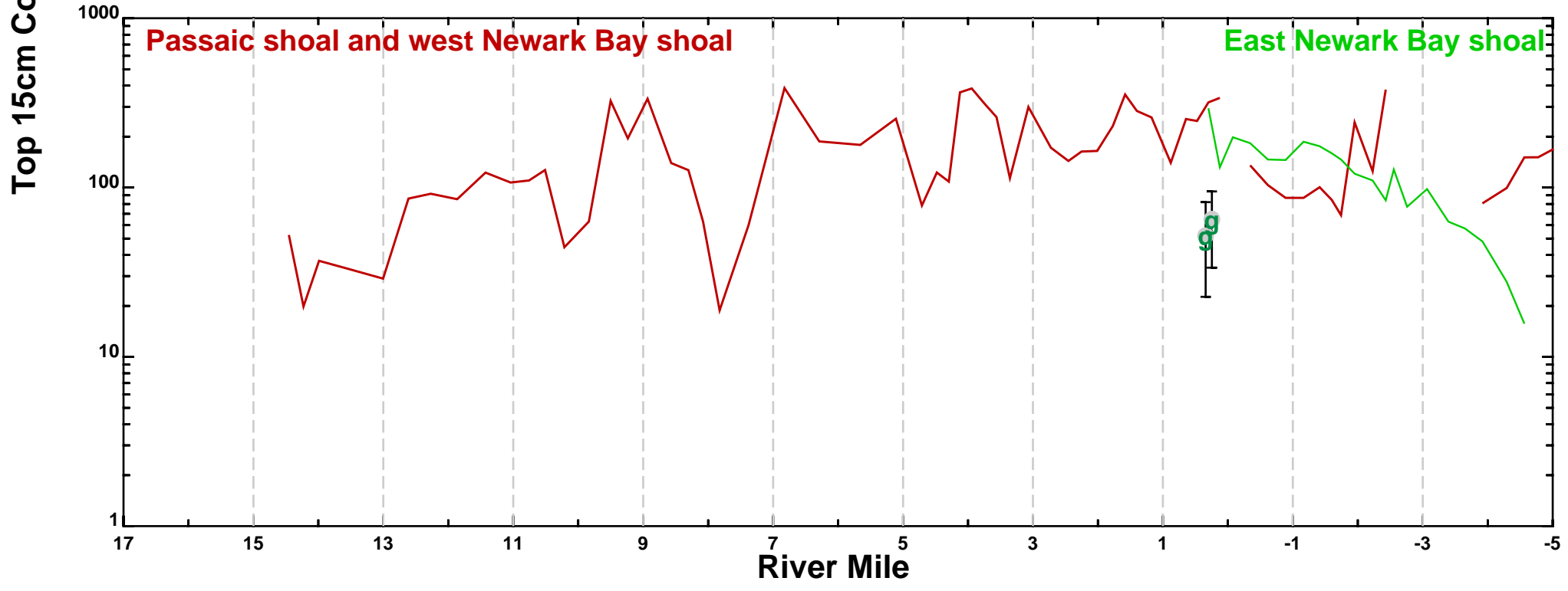
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PCBs, sum of hexachloro biphenyl congeners (ug/kg)



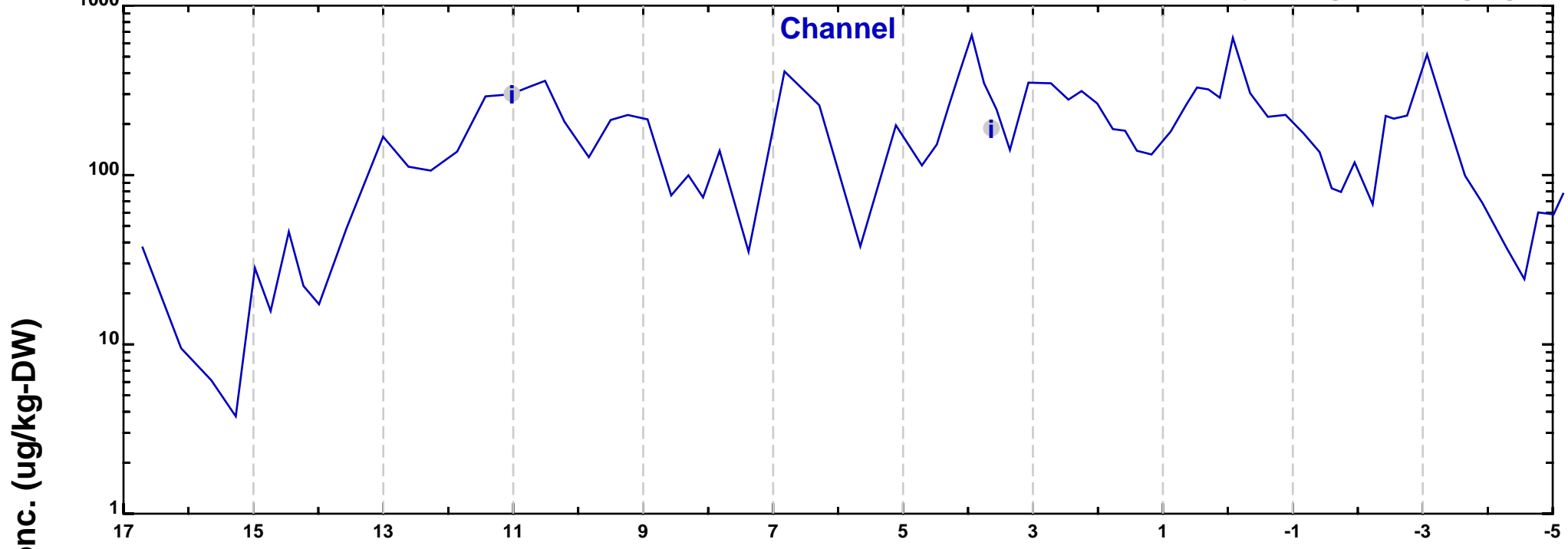
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



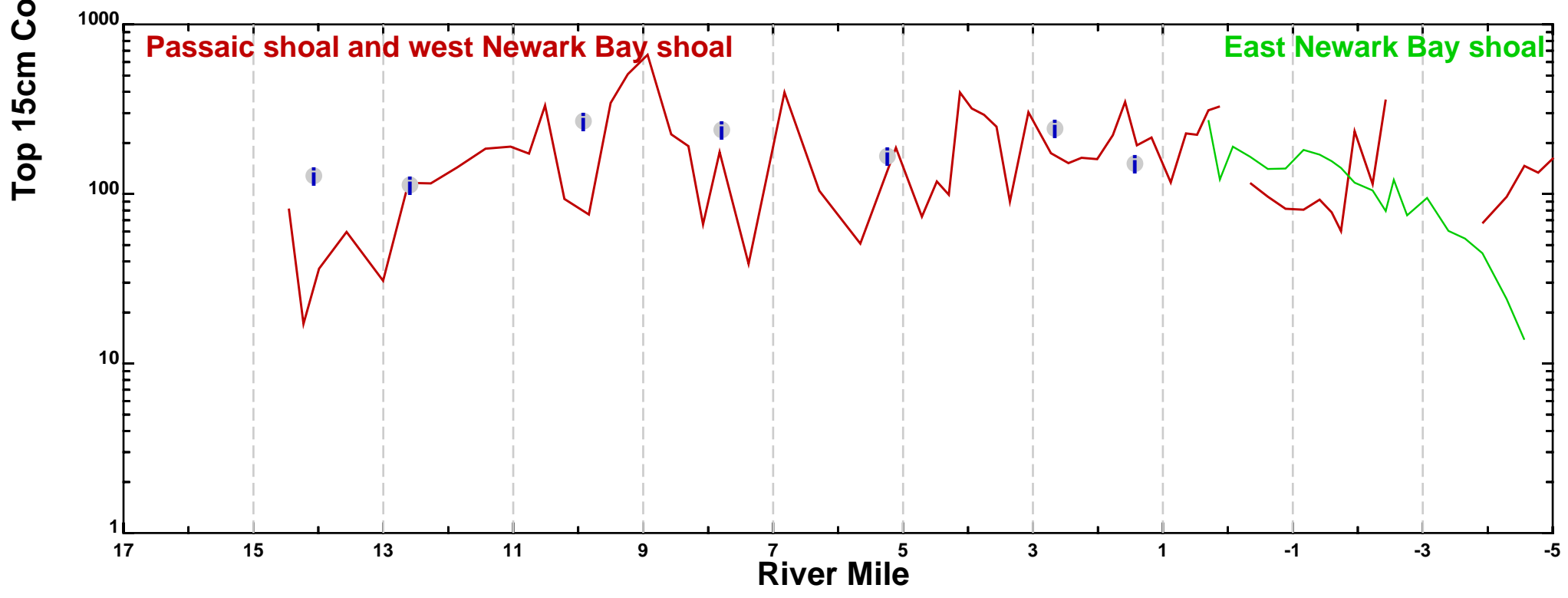
Year =2007.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

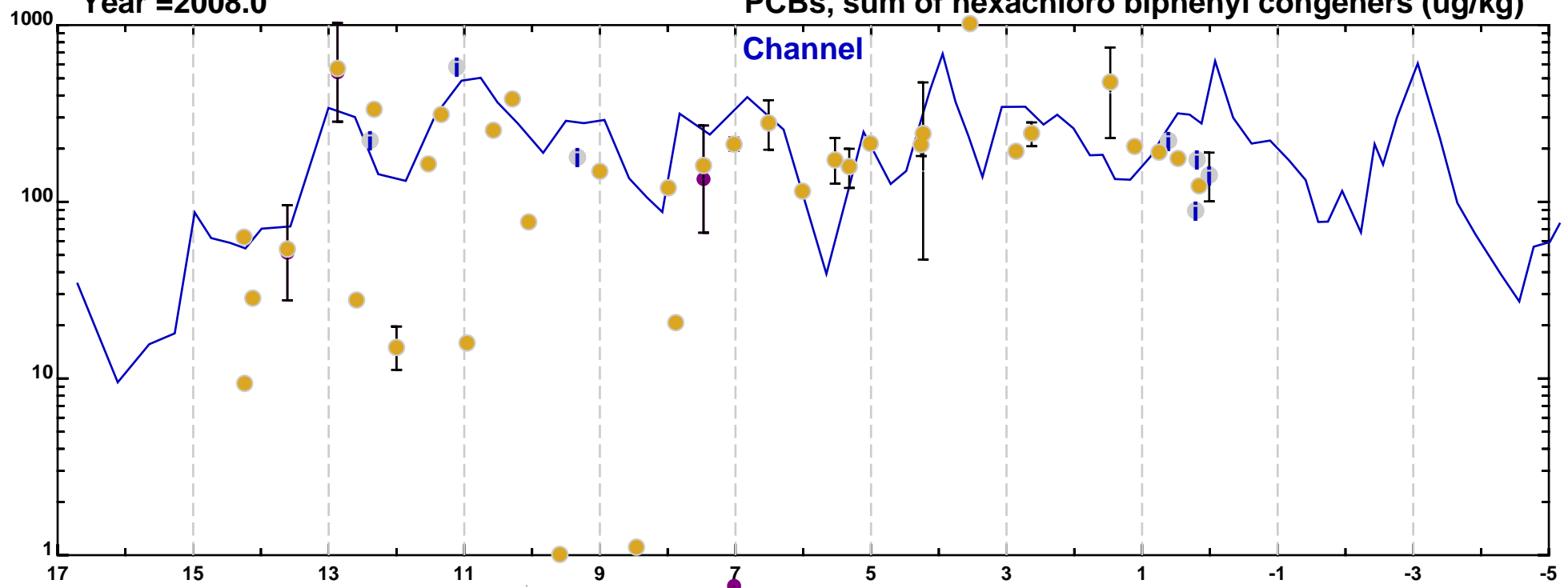


Year =2008.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)

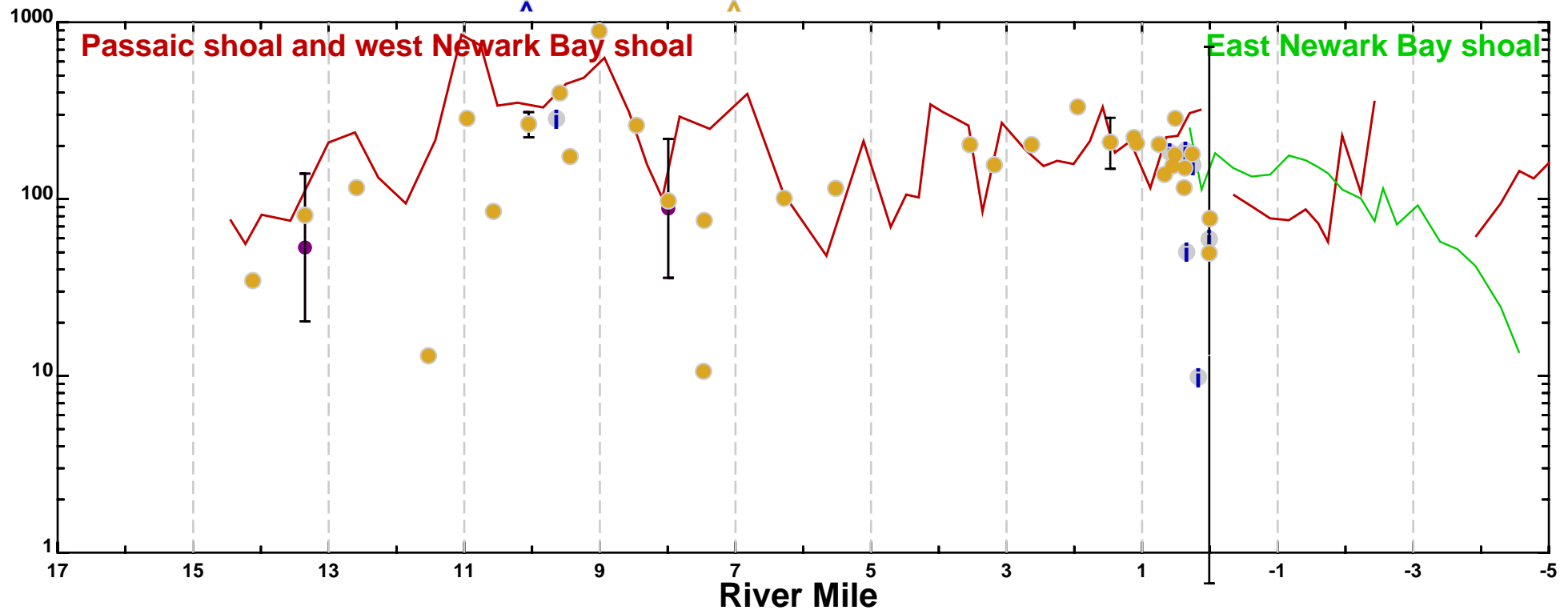
Top 15cm Conc. (ug/kg-DW)

Channel



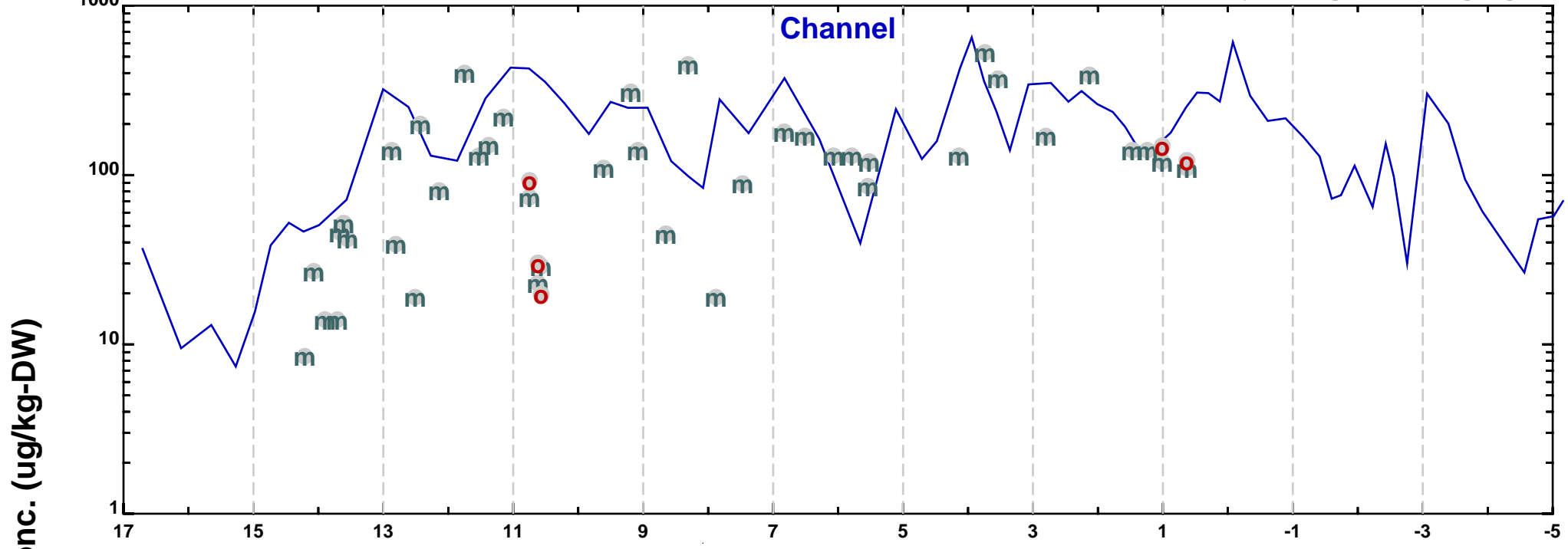
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



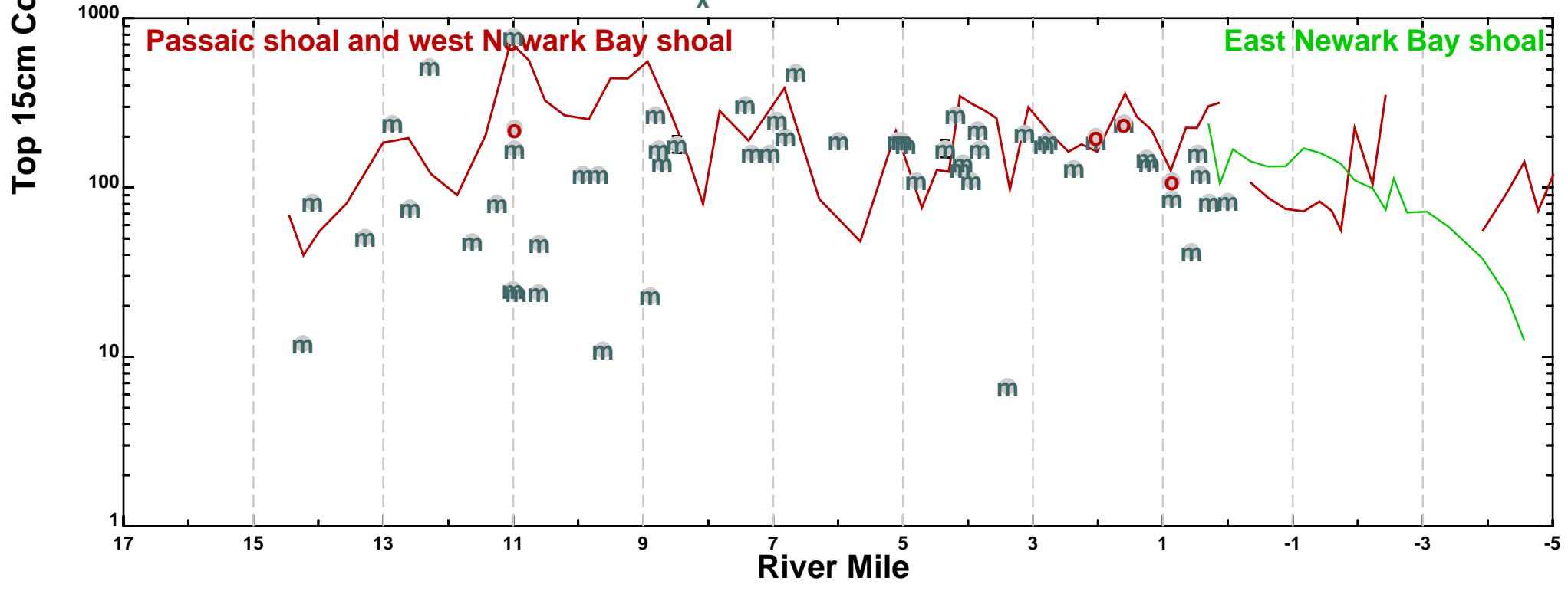
Year =2009.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)



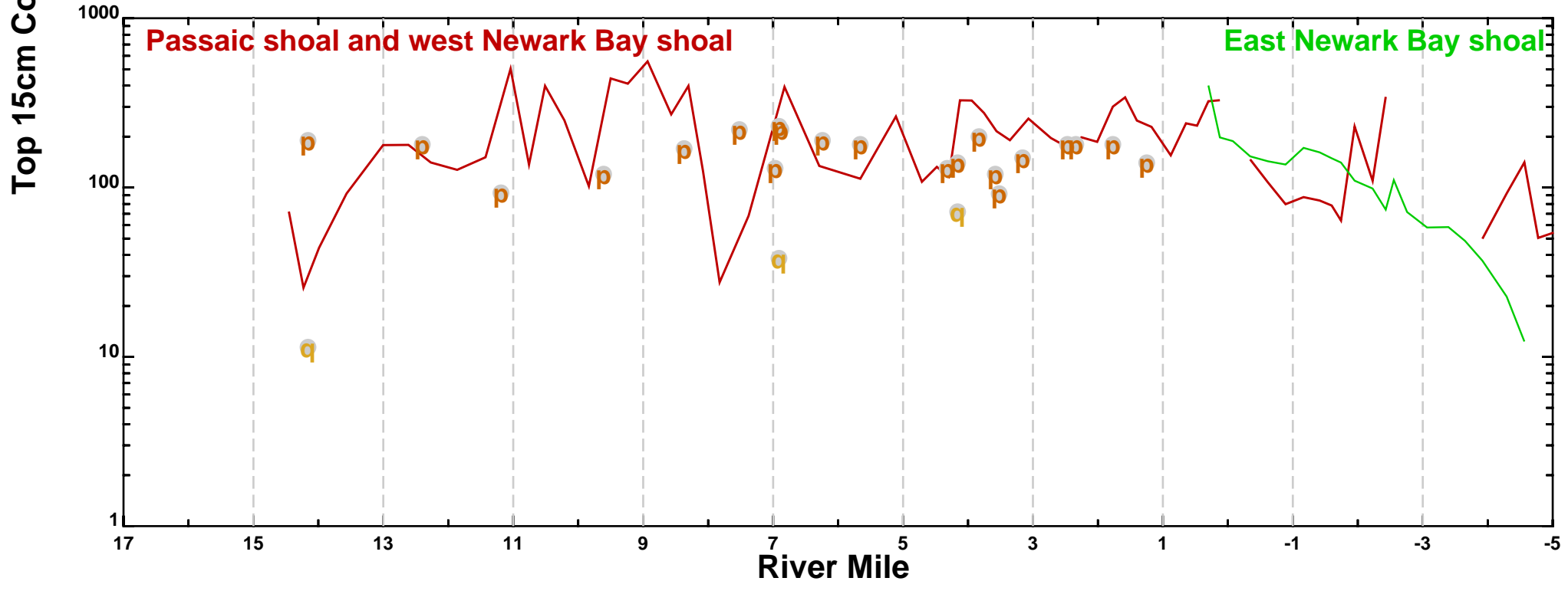
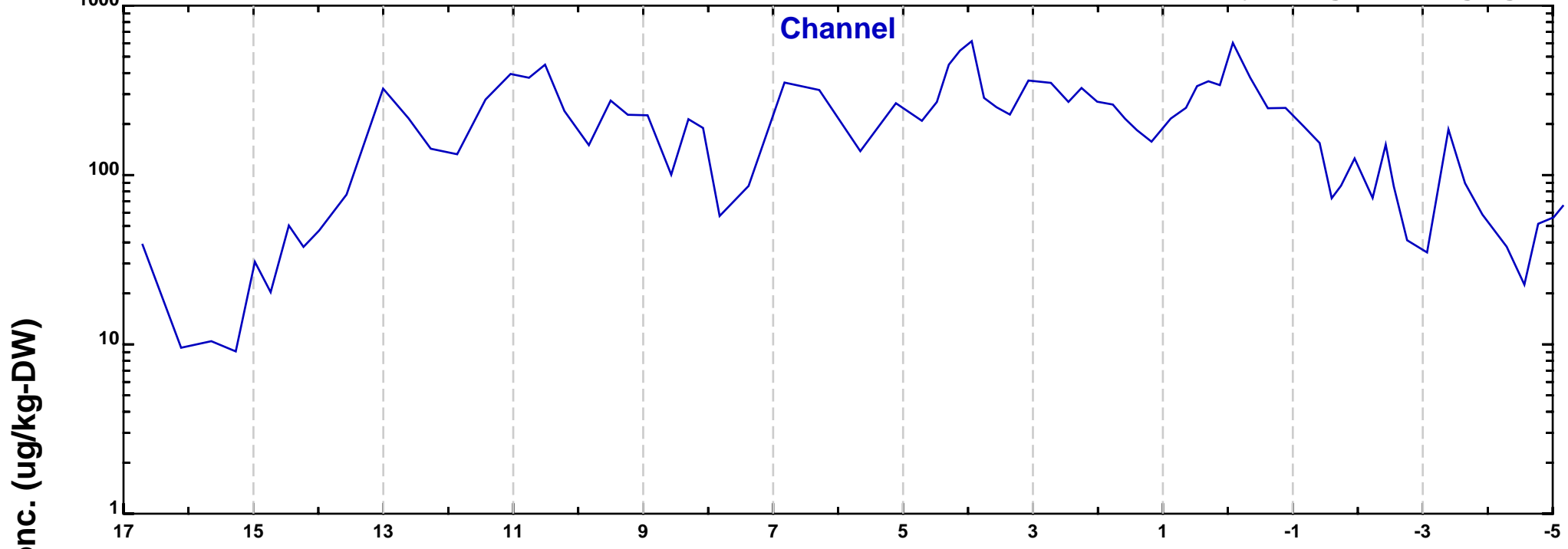
Passaic shoal and west Newark Bay shoal

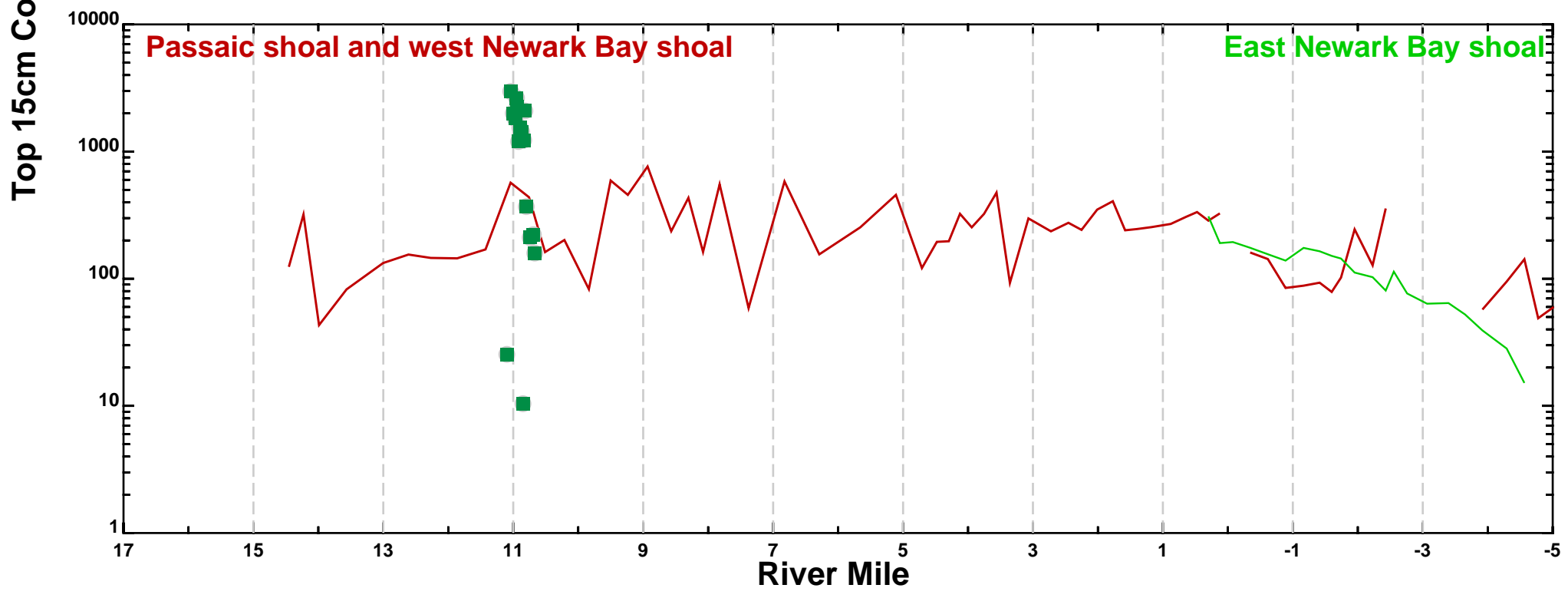
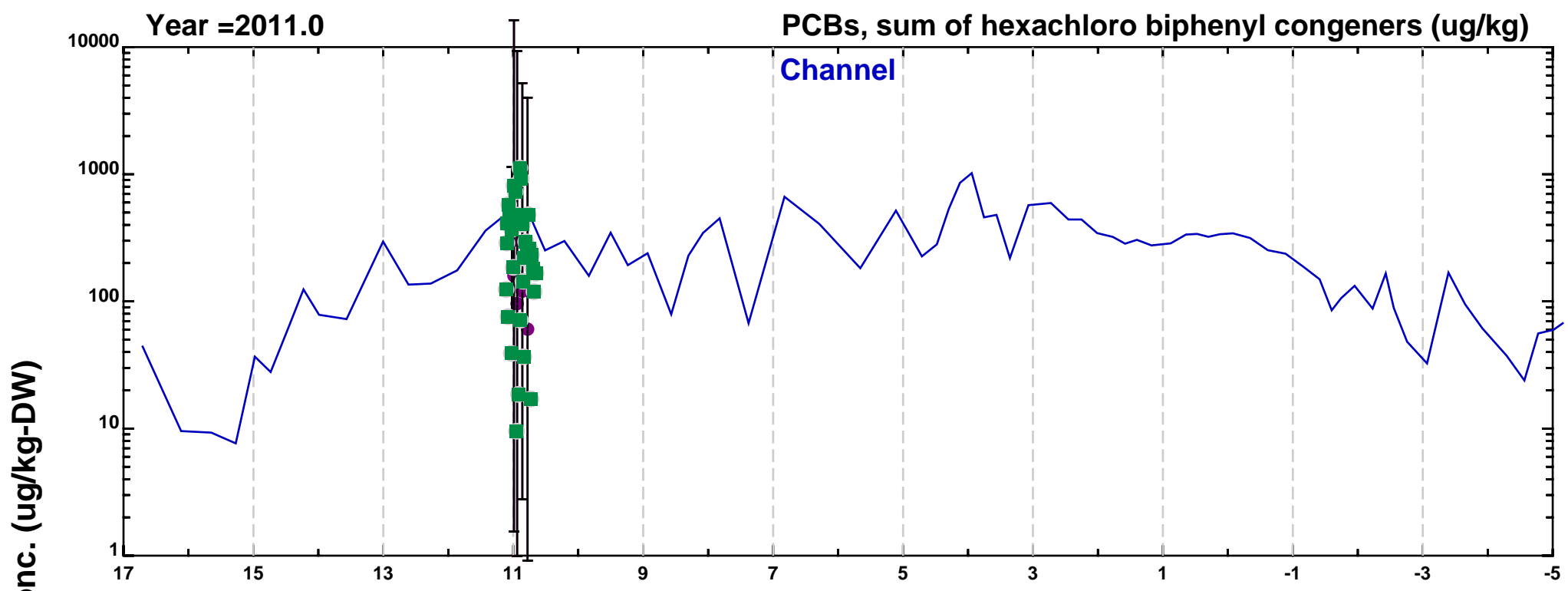
East Newark Bay shoal



Year =2010.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)





Year = 2012.0

PCBs, sum of hexachloro biphenyl congeners (ug/kg)

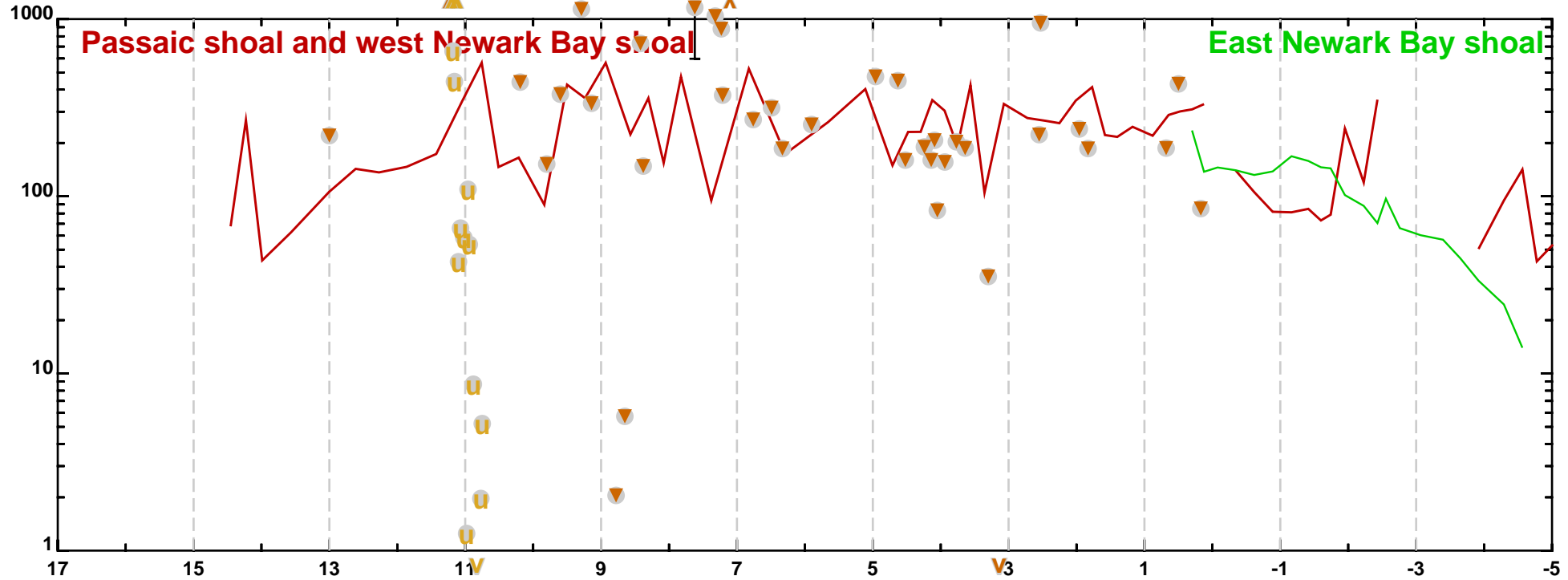
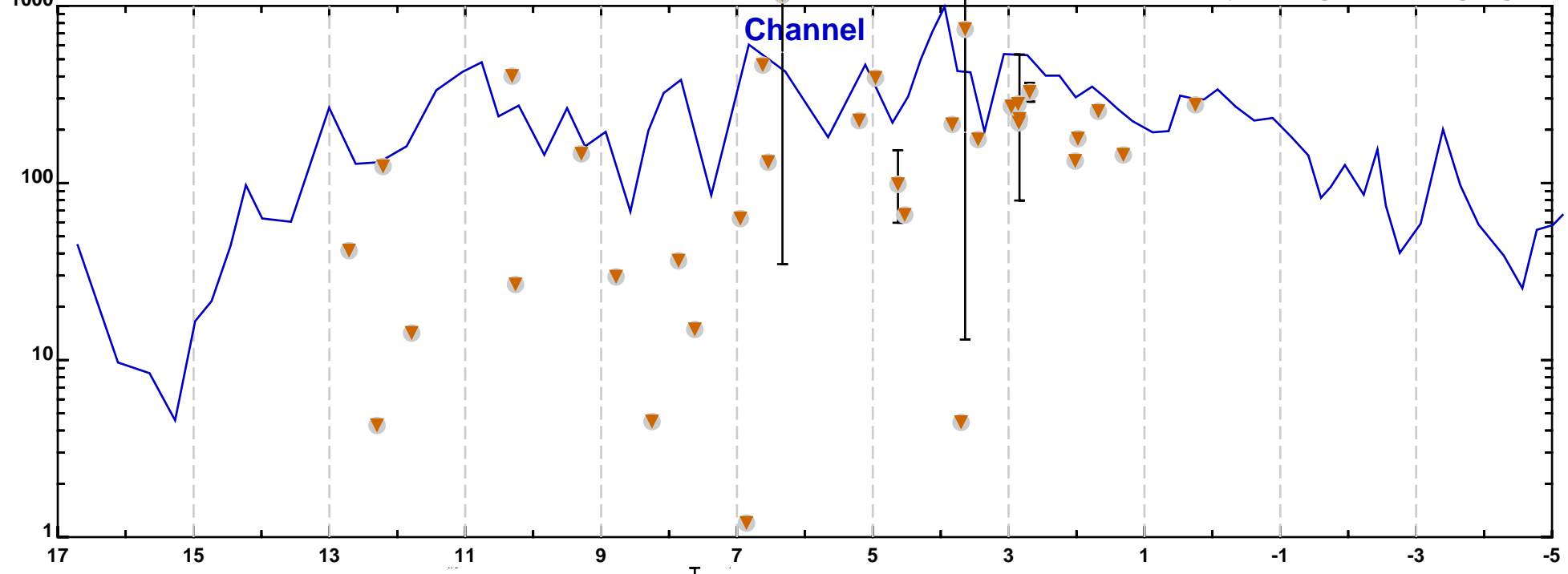
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

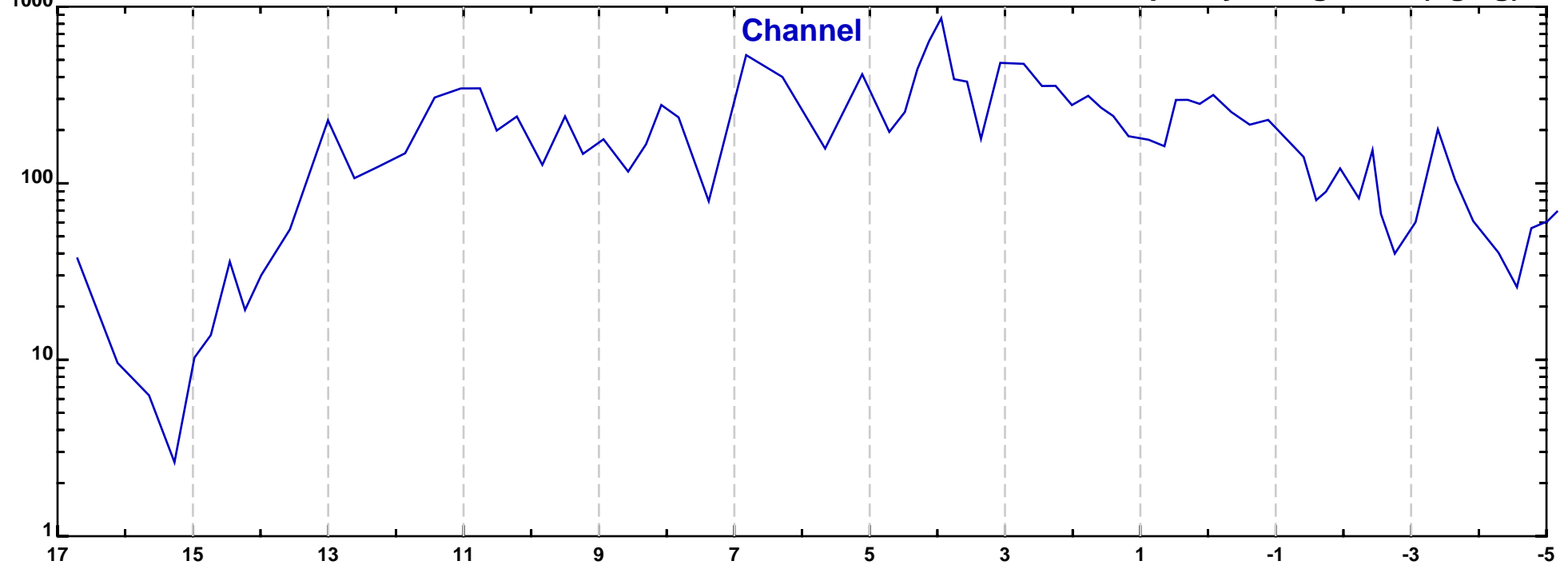
River Mile



Year =2013.0

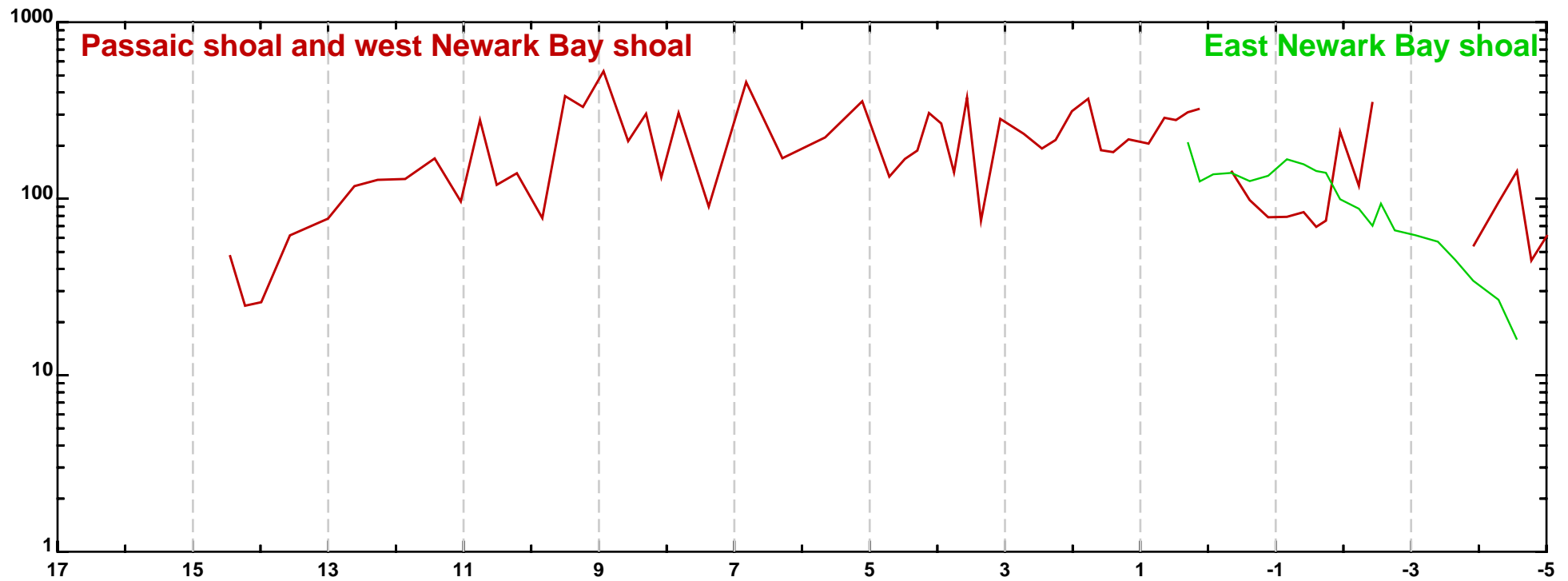
PCBs, sum of hexachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



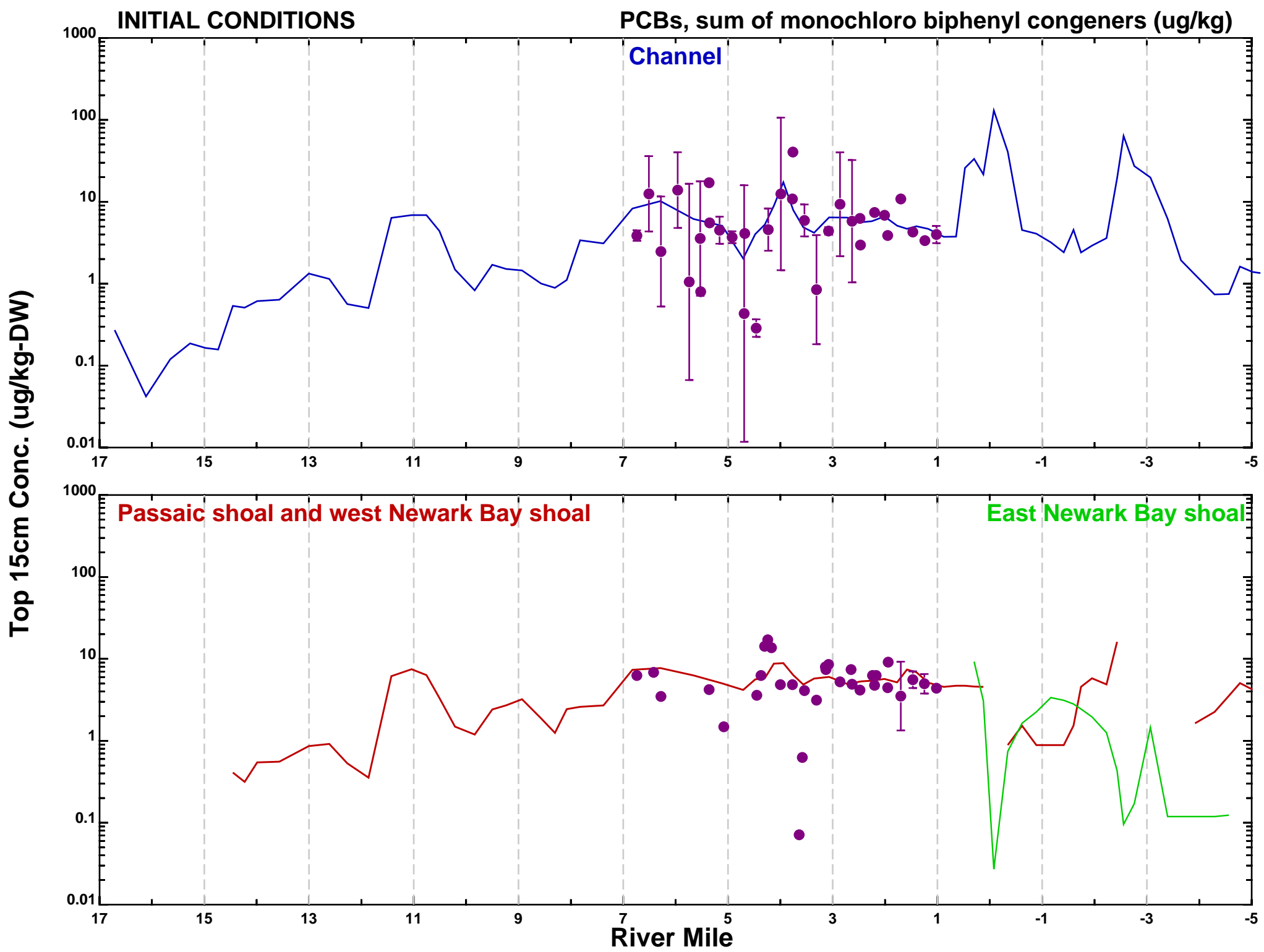
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



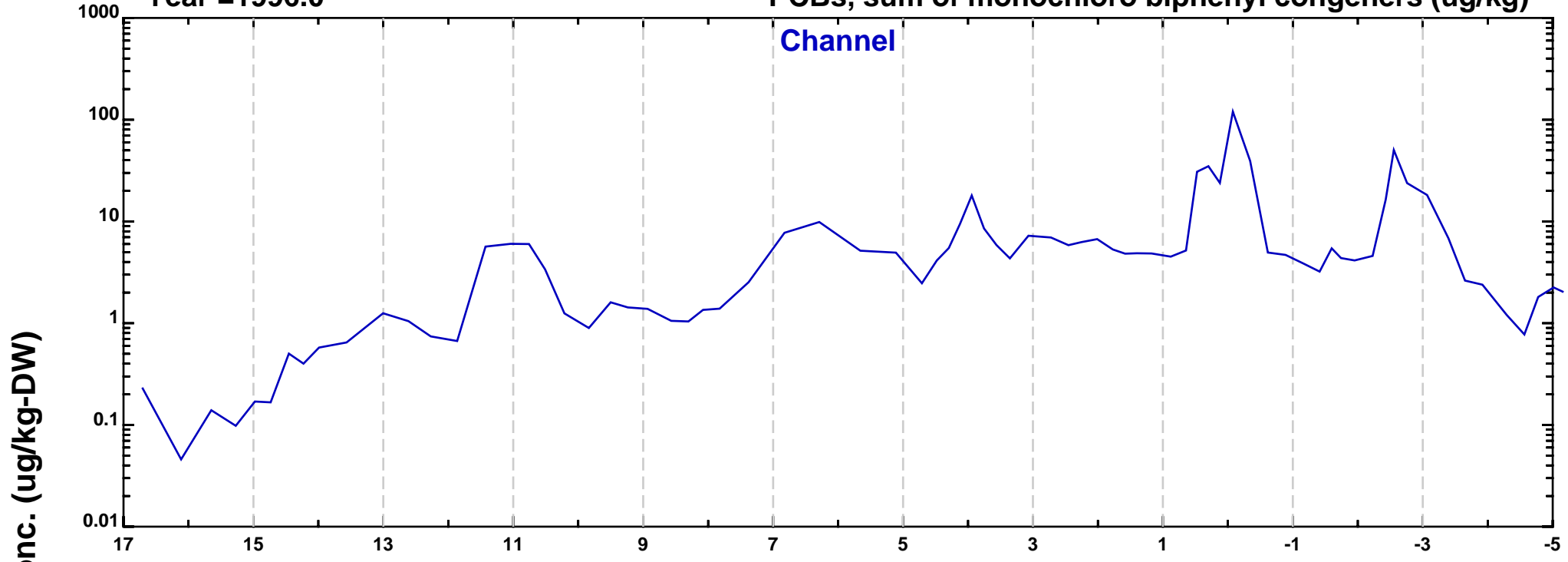
River Mile





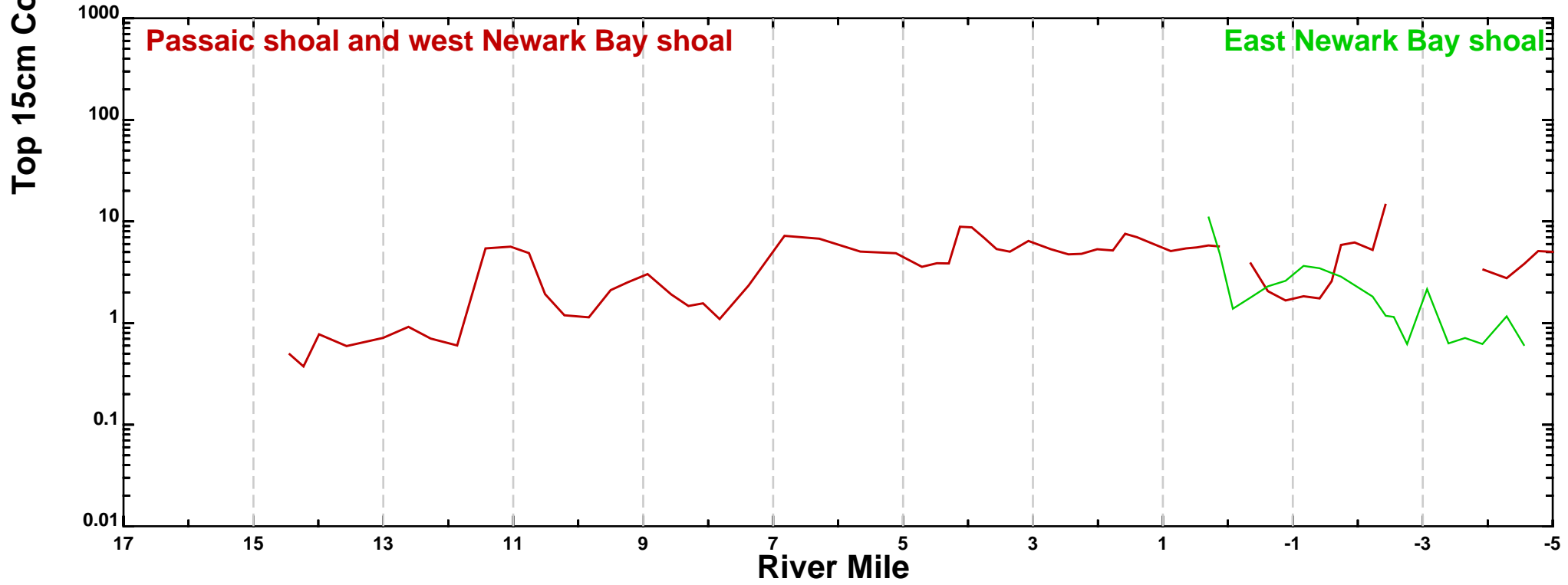
Year = 1996.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



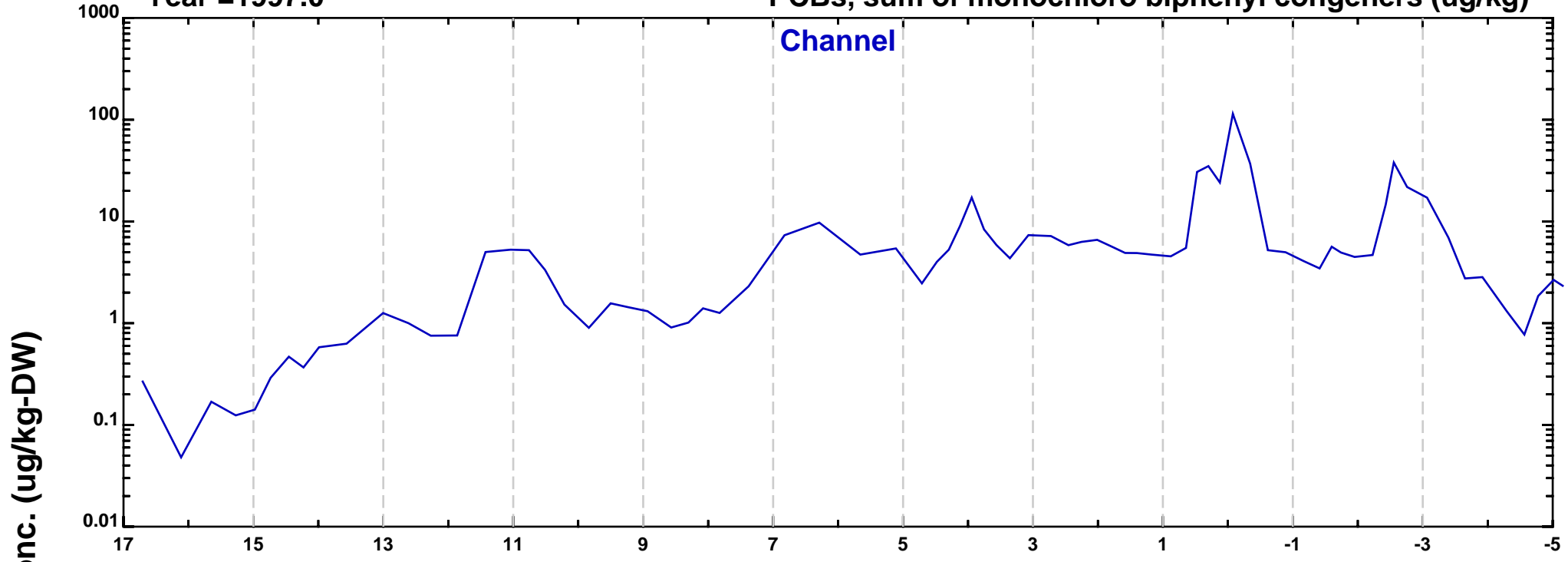
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



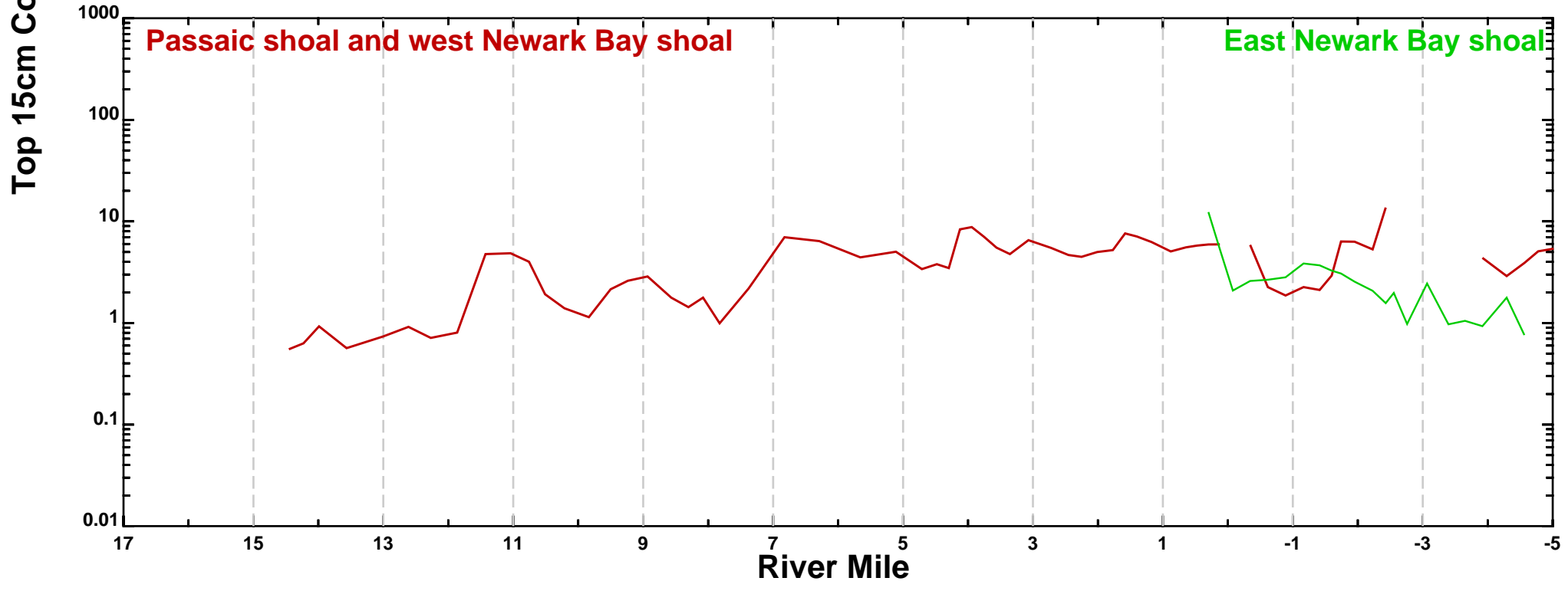
Year =1997.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

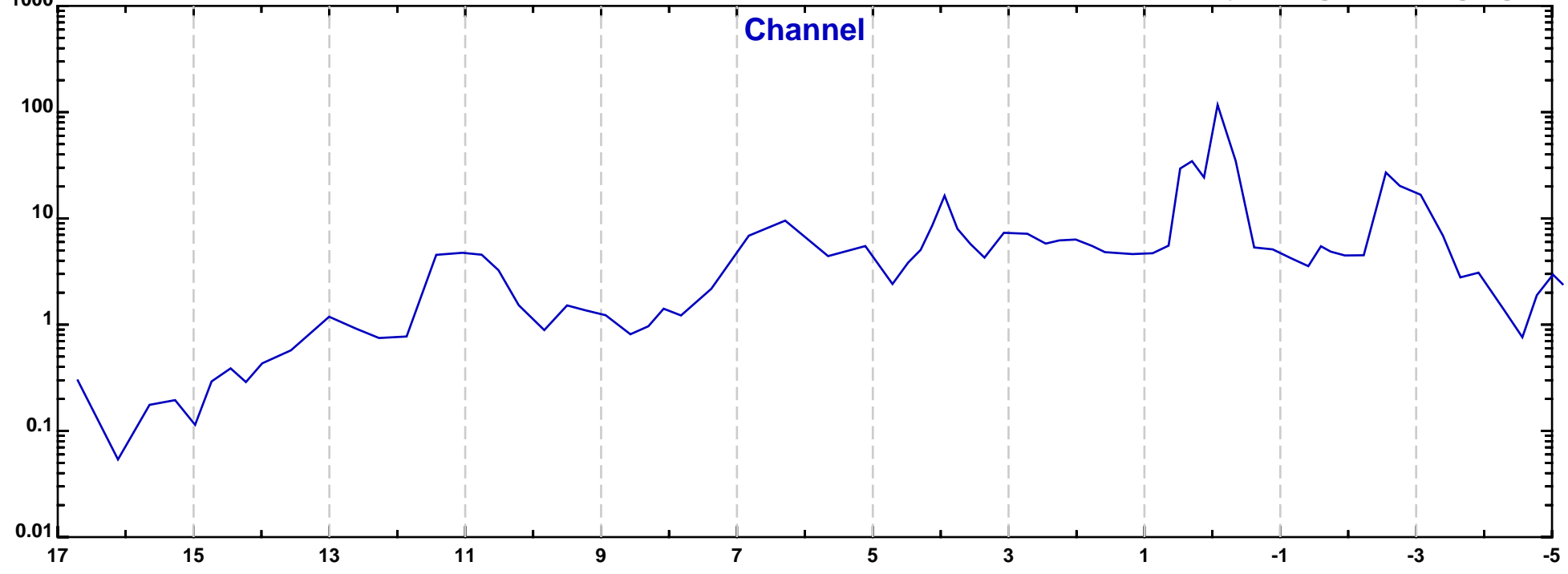


Year = 1998.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)

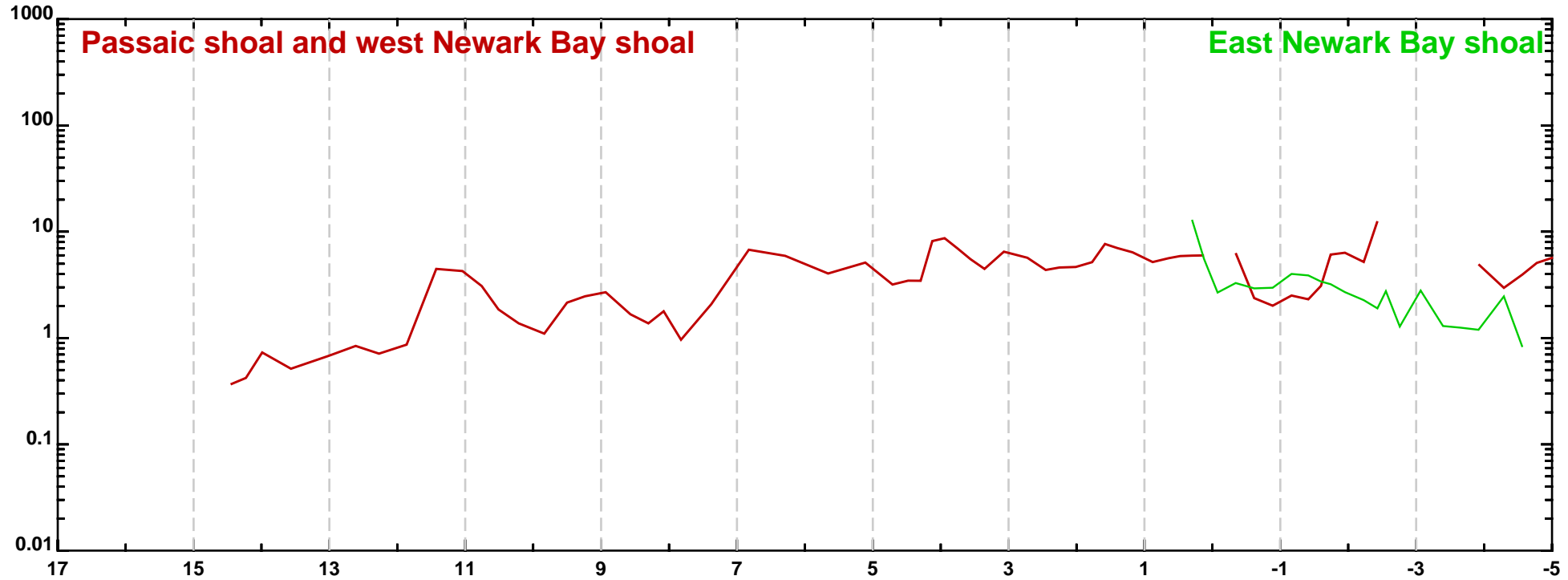
Channel



Passaic shoal and west Newark Bay shoal

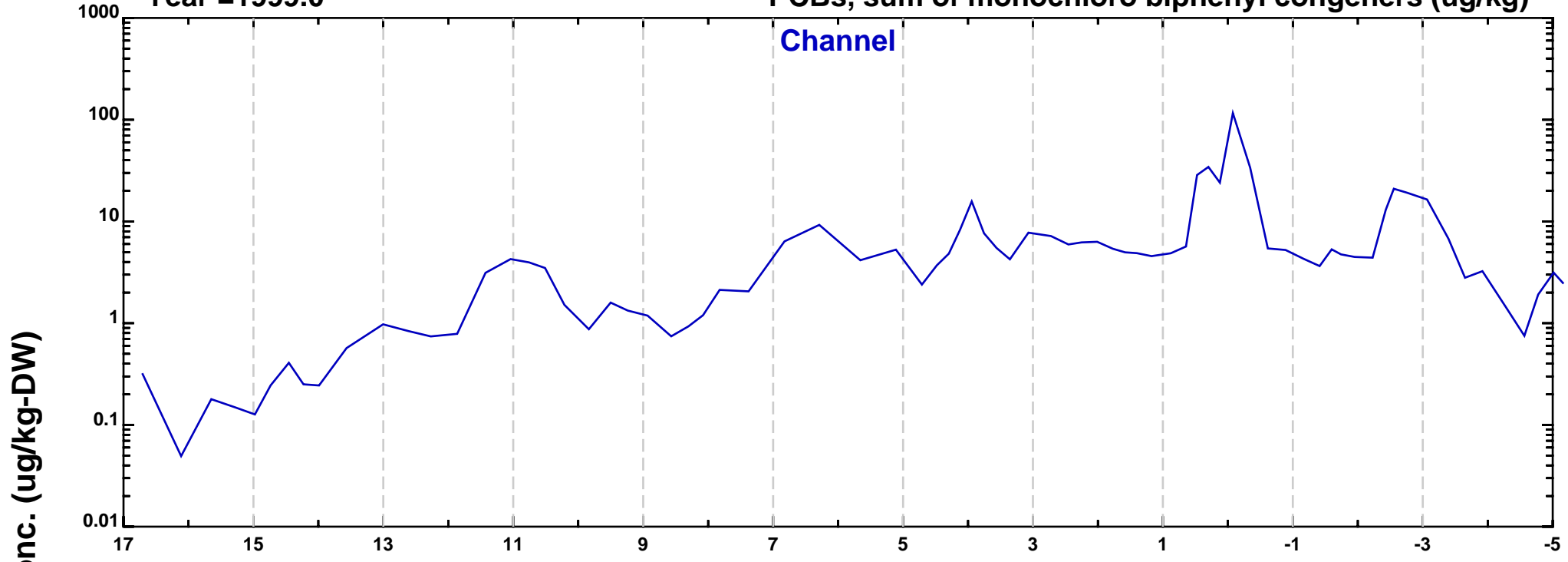
East Newark Bay shoal

River Mile



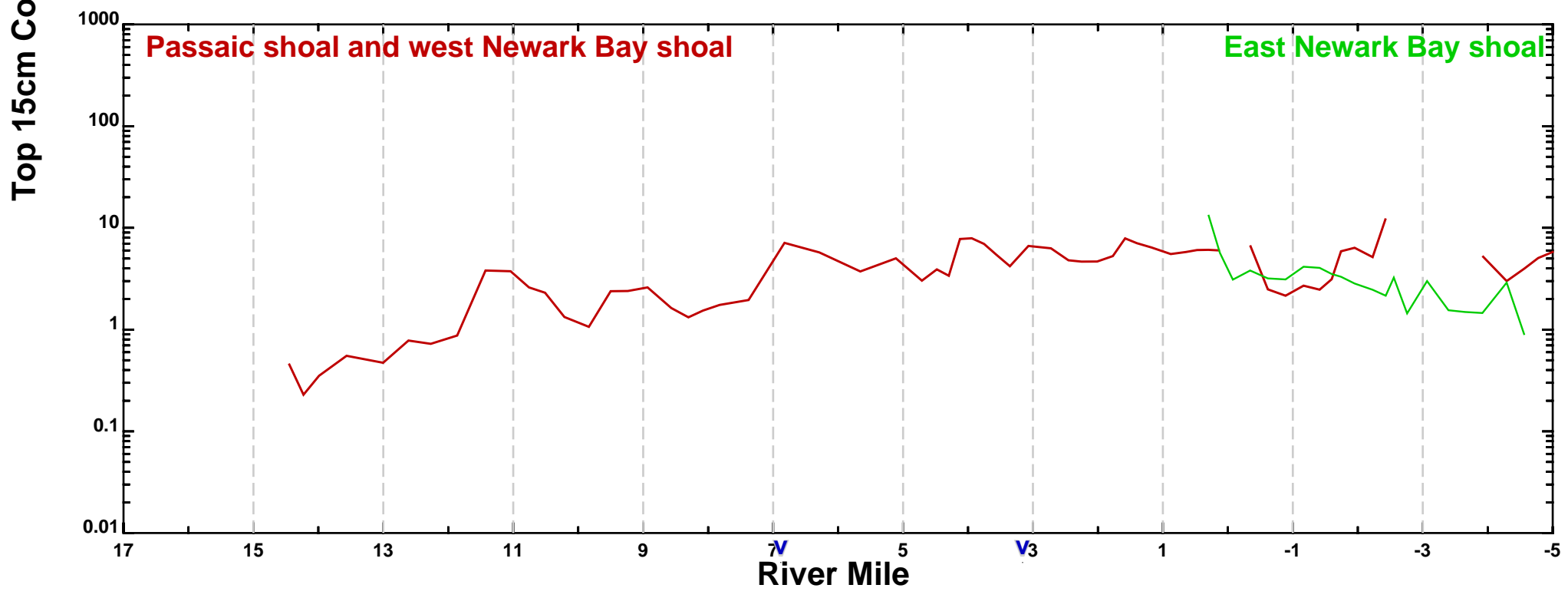
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PCBs, sum of monochloro biphenyl congeners (ug/kg)



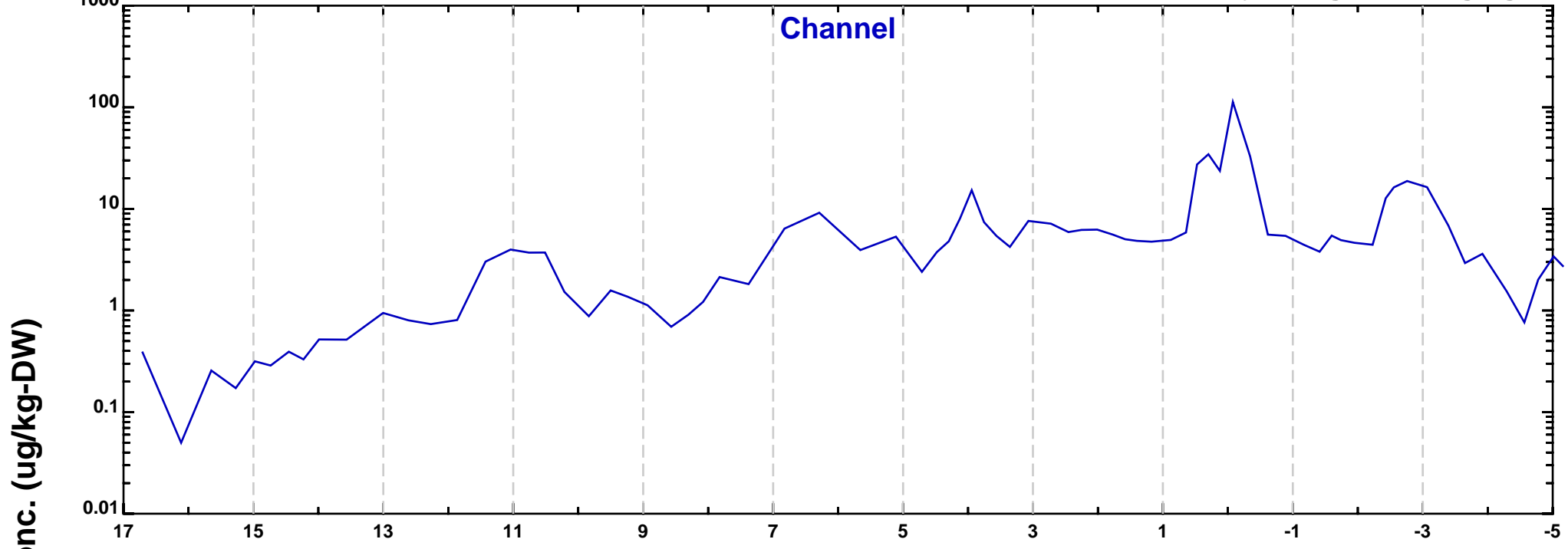
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



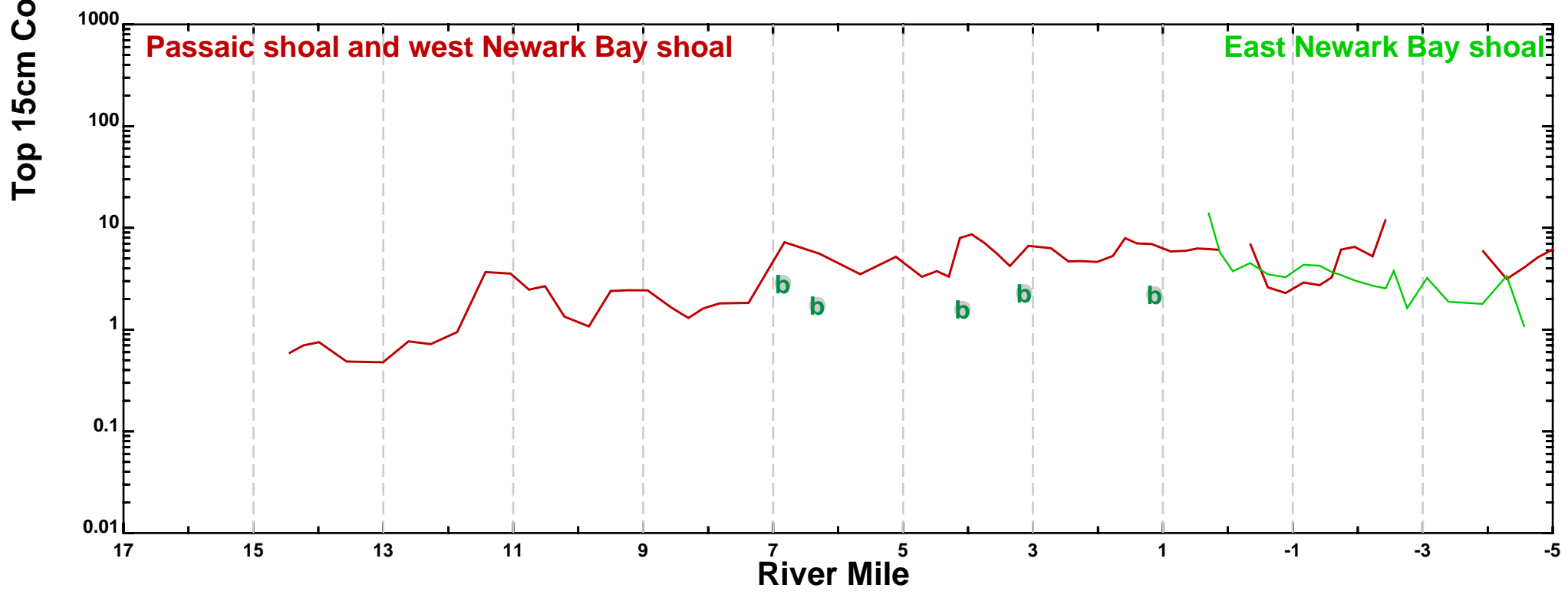
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PCBs, sum of monochloro biphenyl congeners (ug/kg)



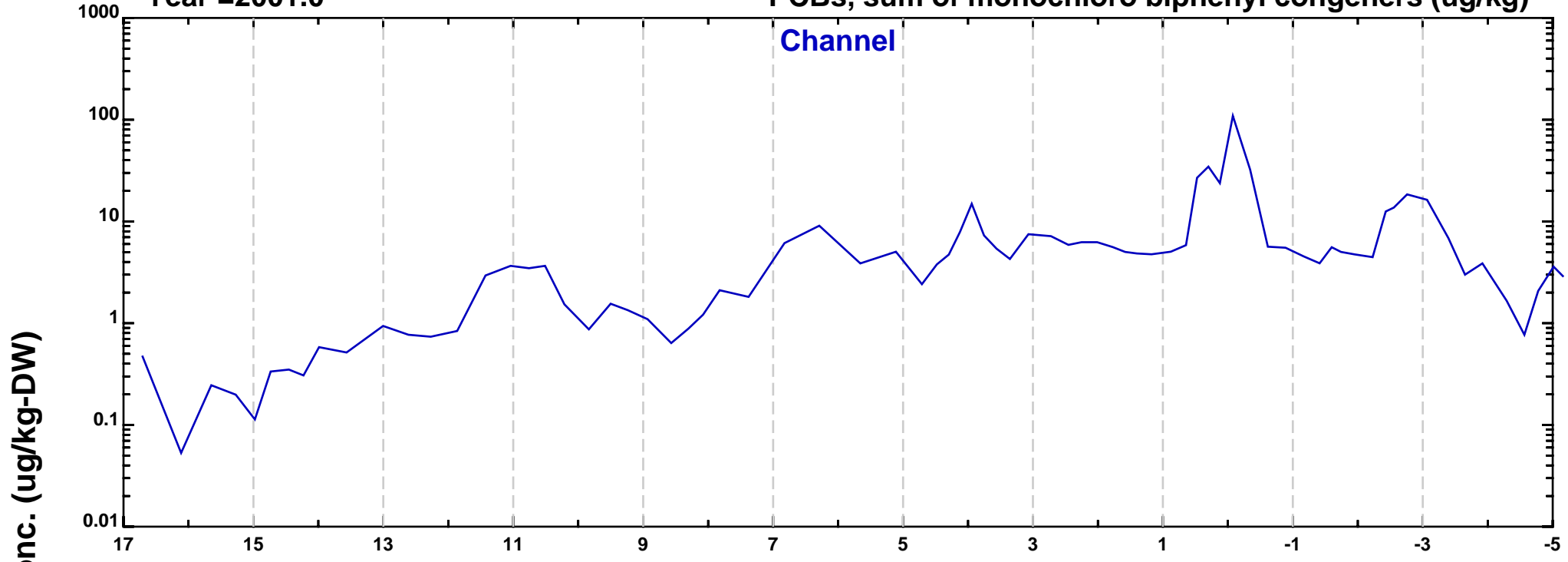
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



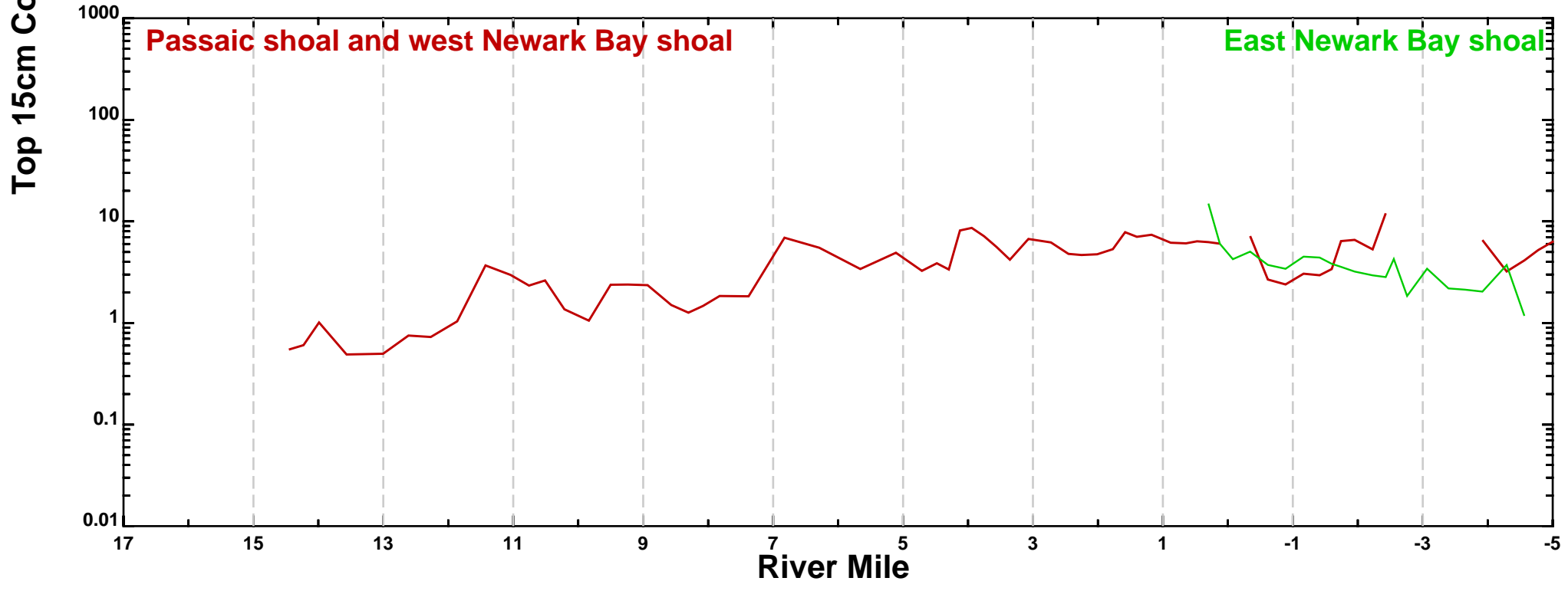
Year =2001.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



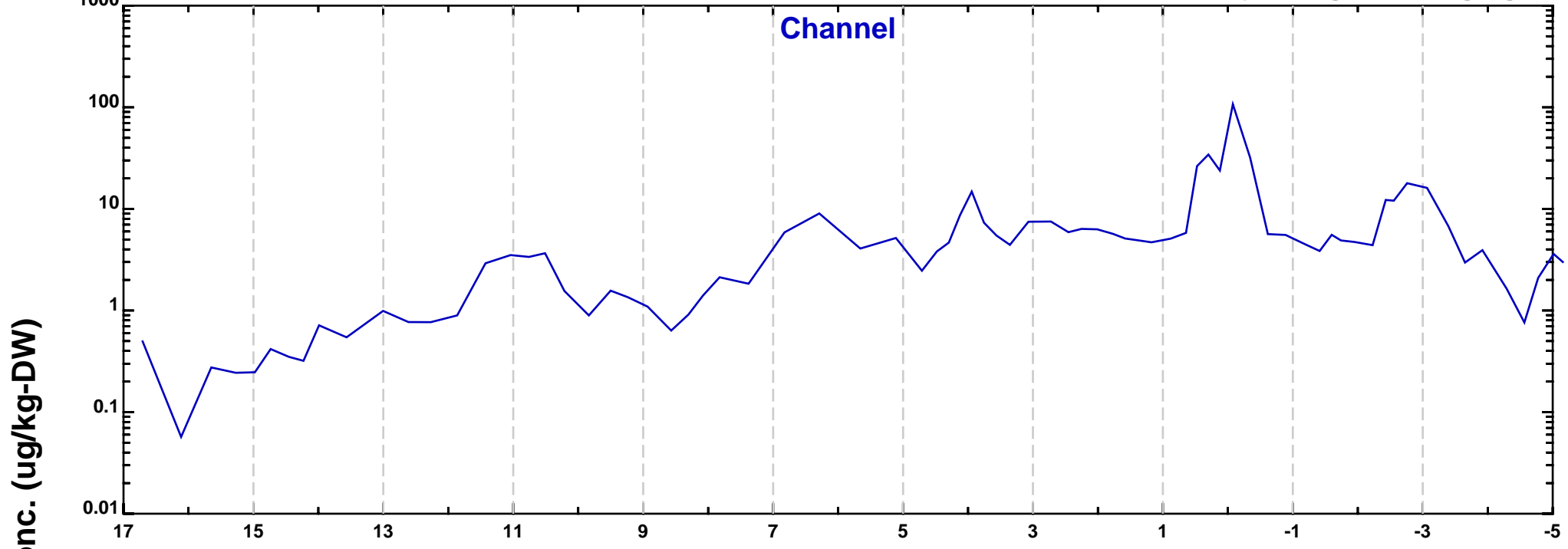
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



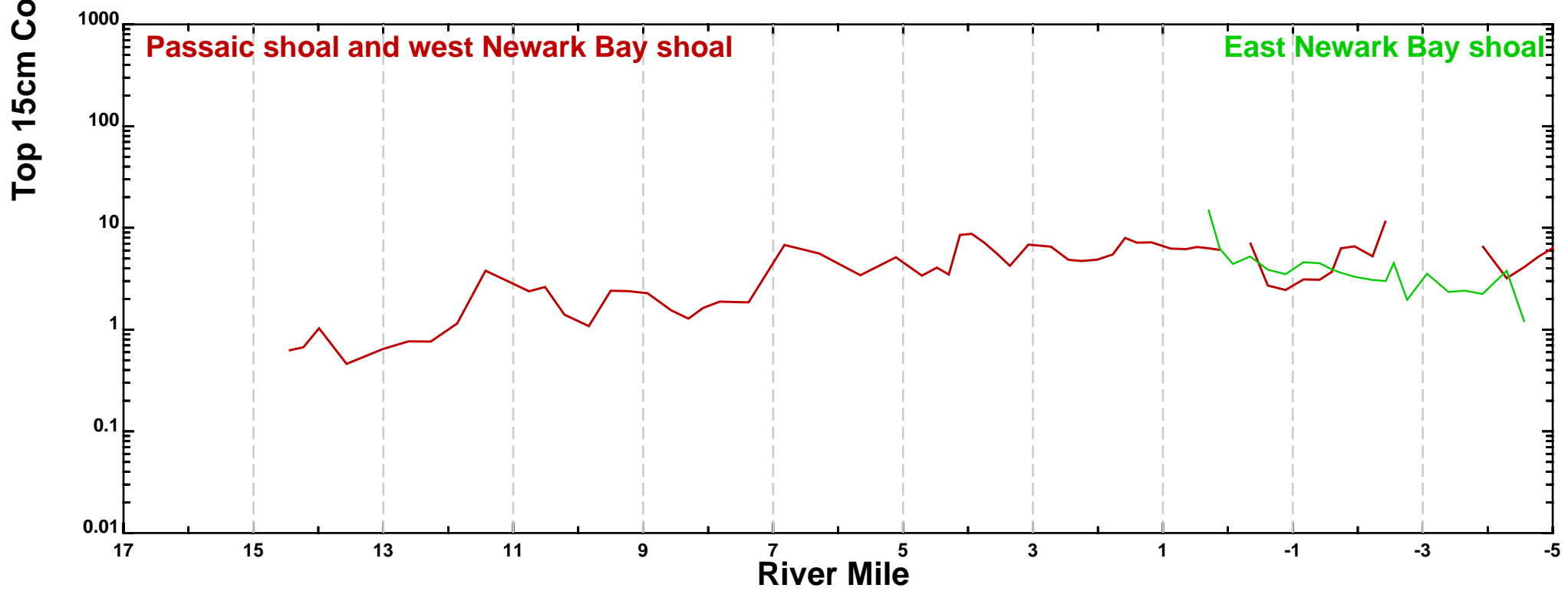
Year =2002.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

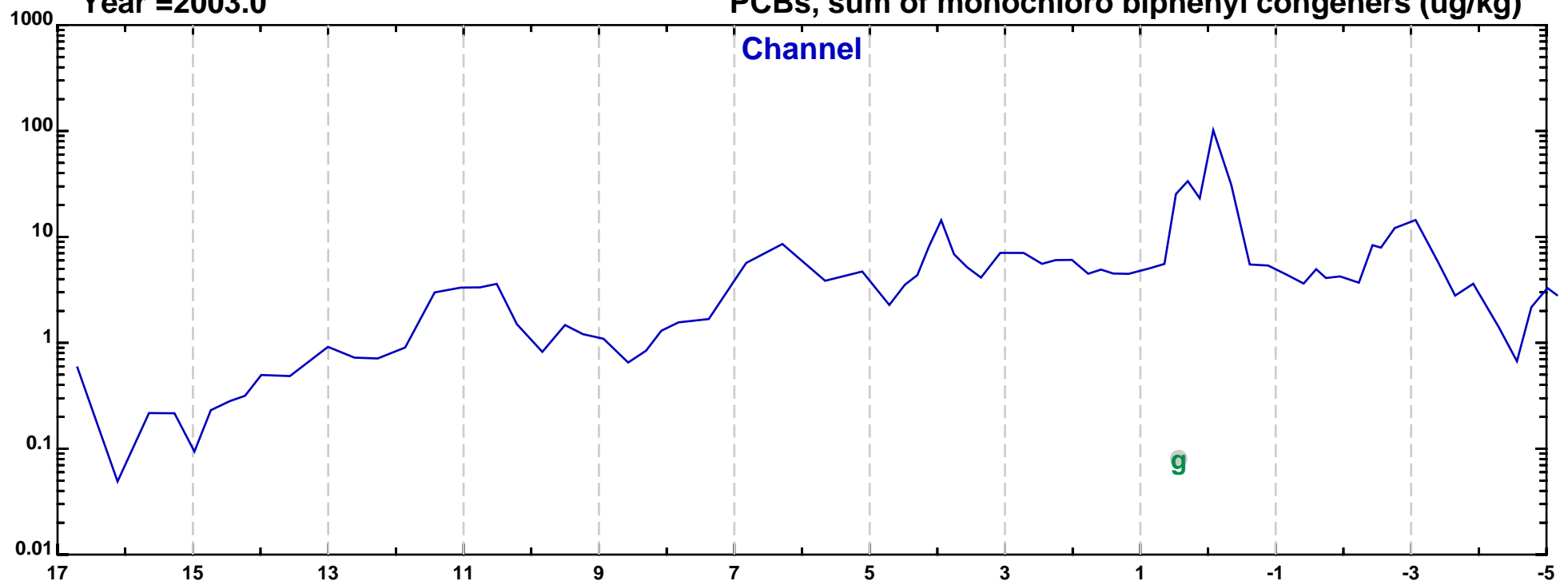




Year =2003.0

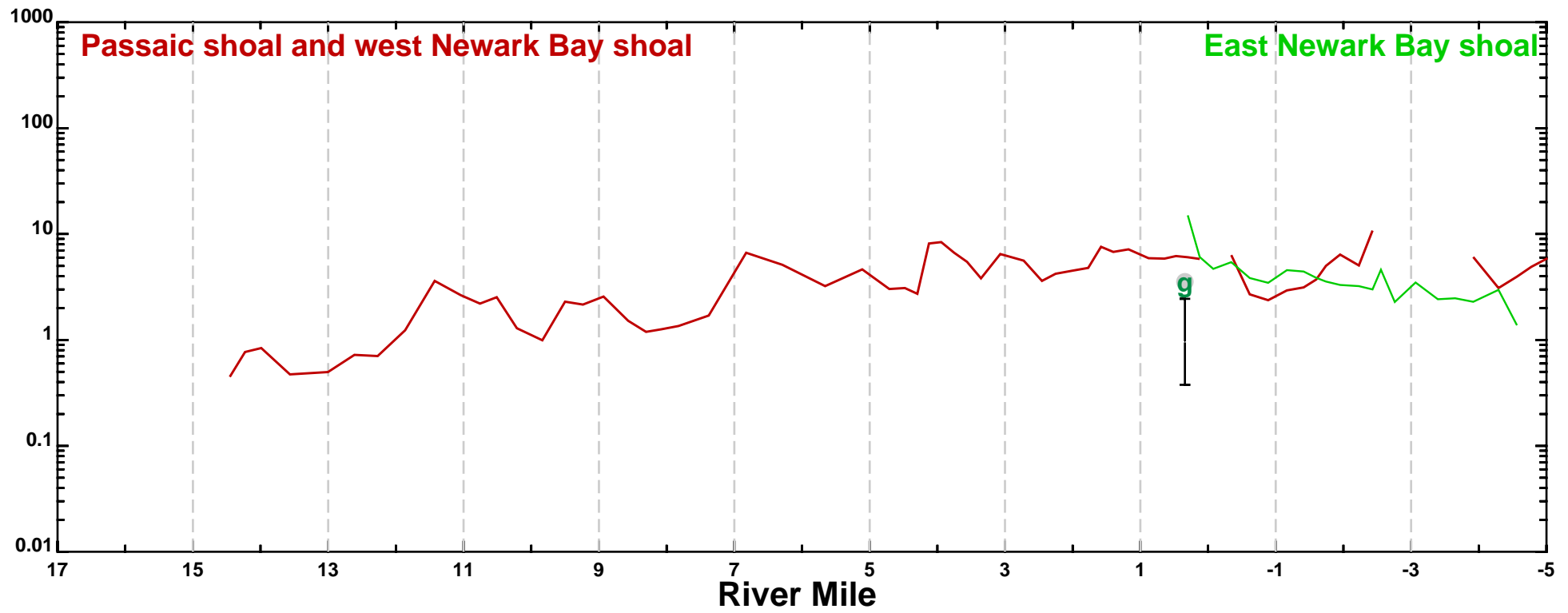
PCBs, sum of monochloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



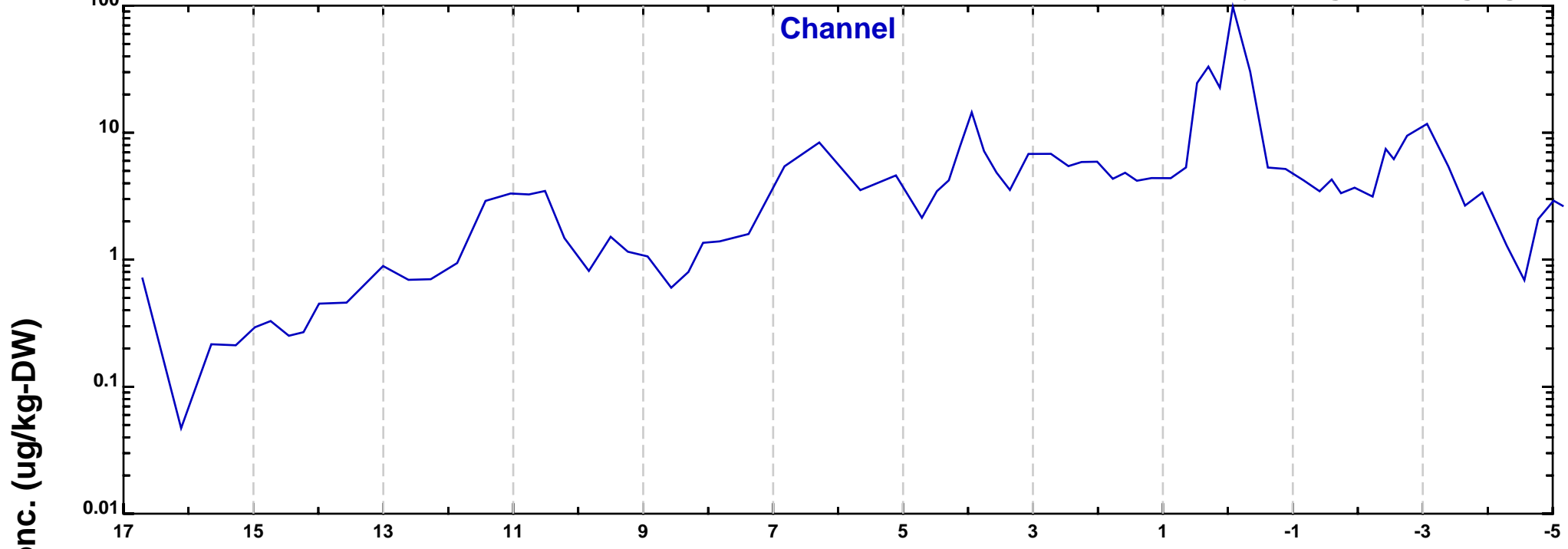
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



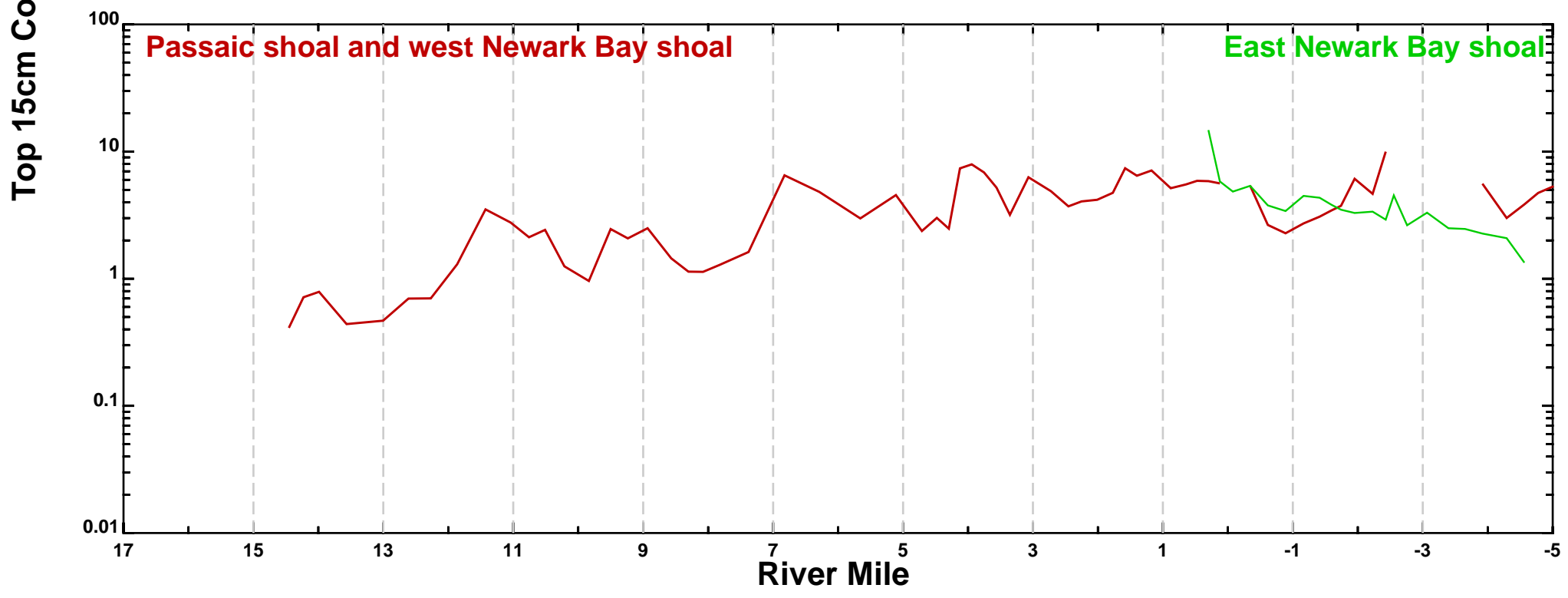
Year =2004.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



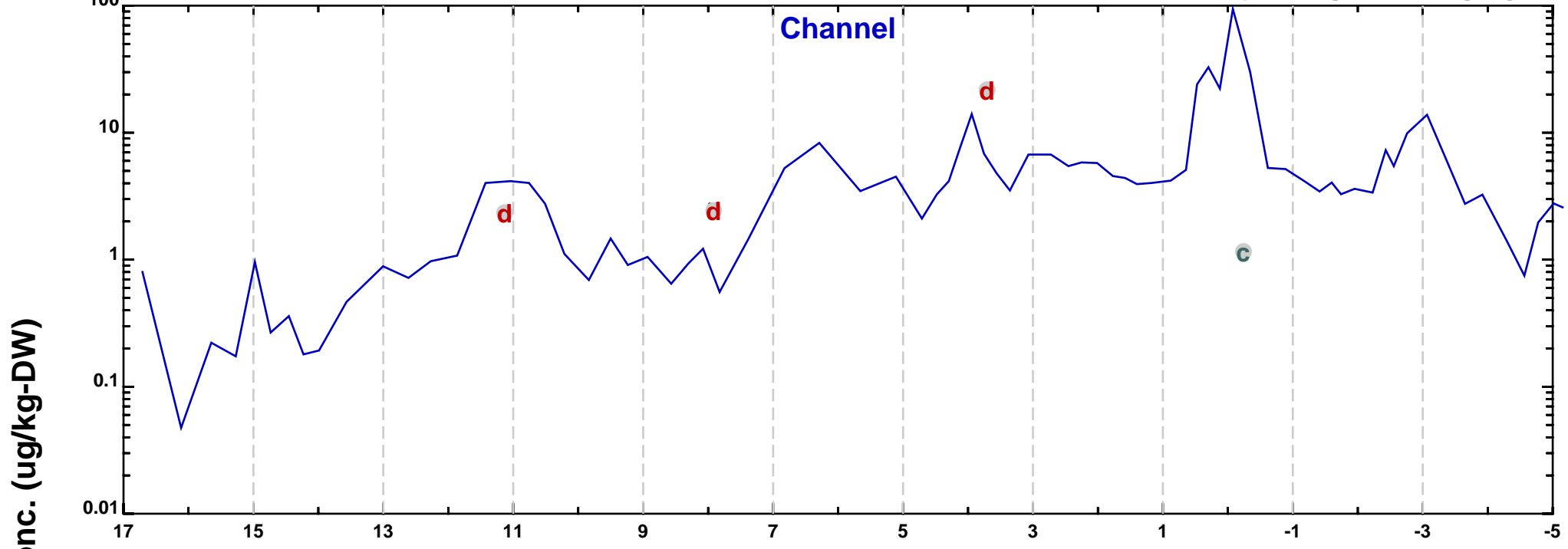
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



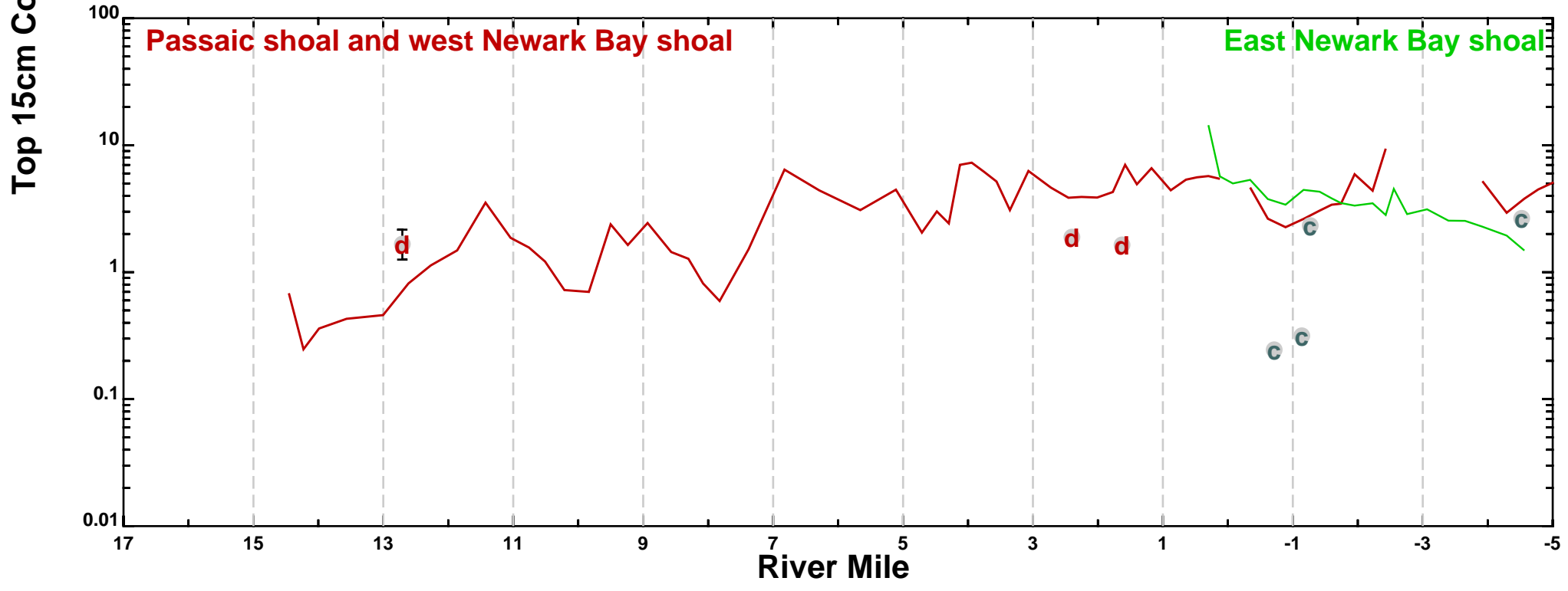
Year =2005.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



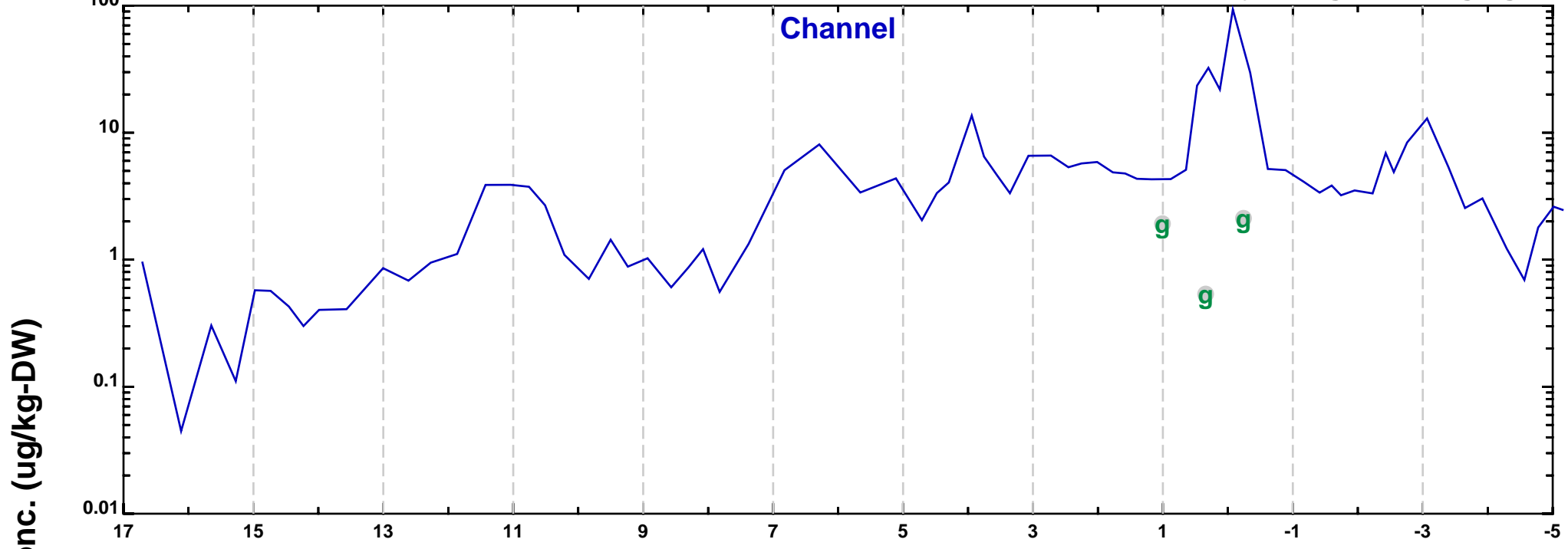
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



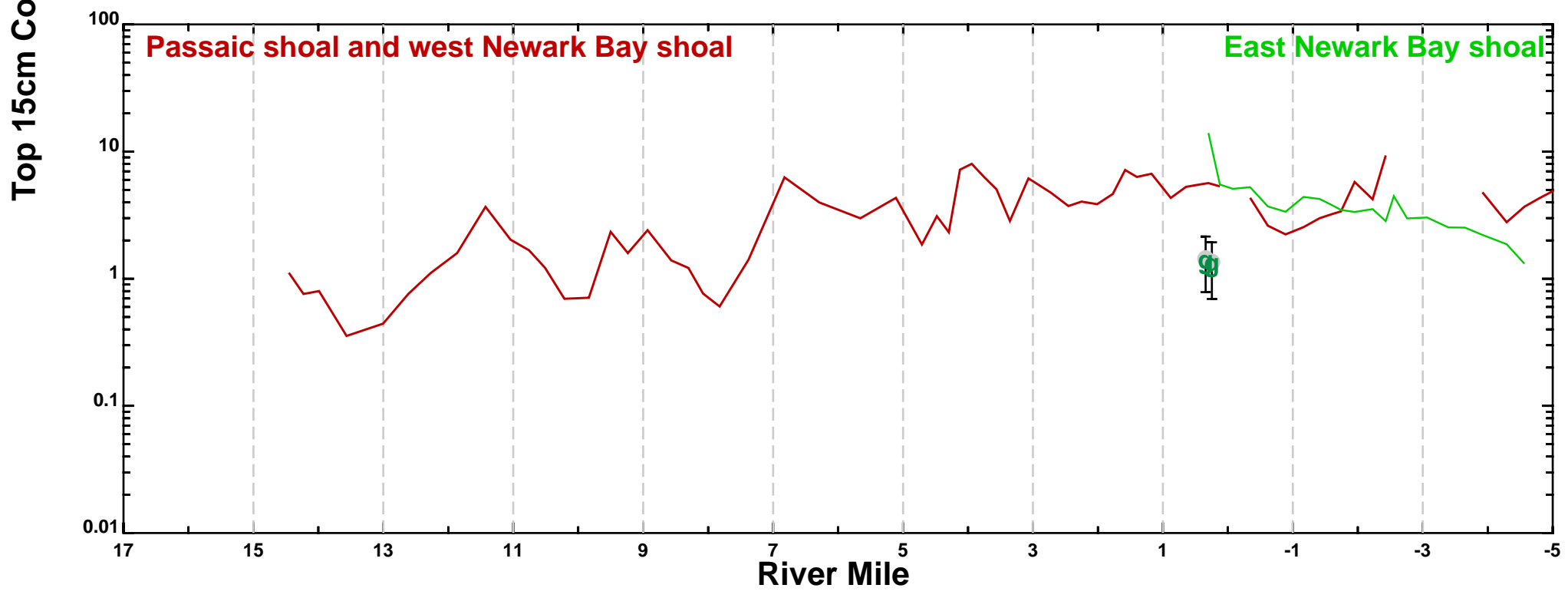
Year =2006.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



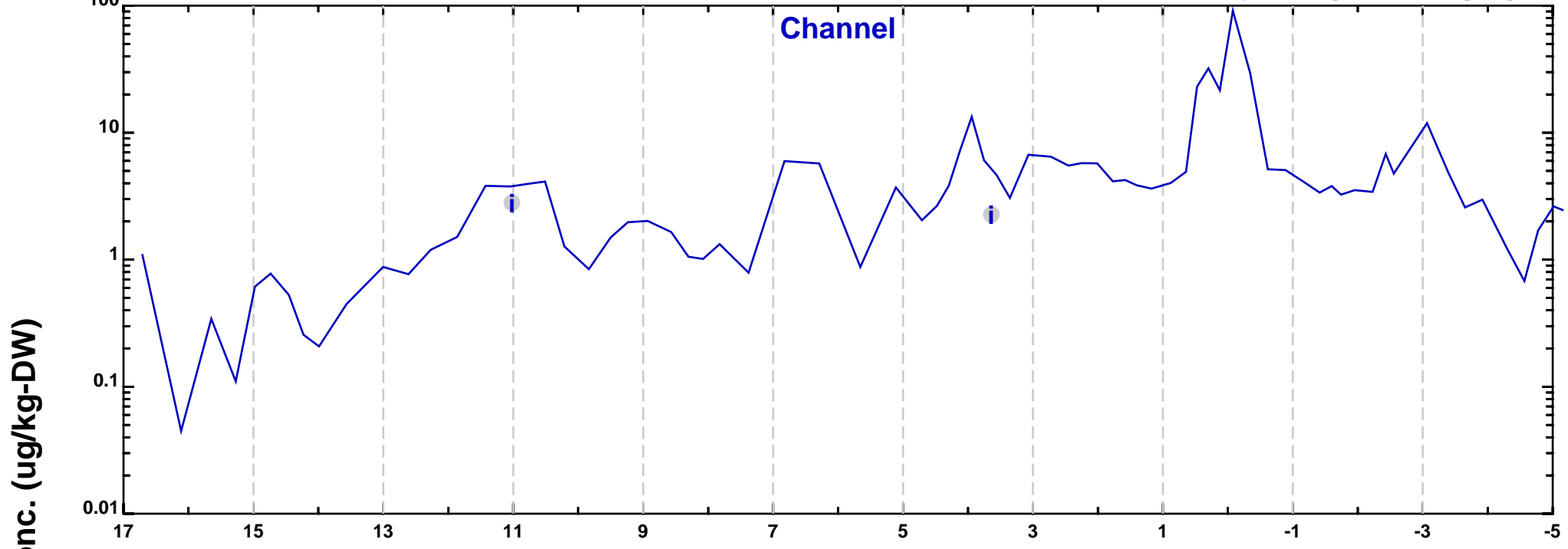
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



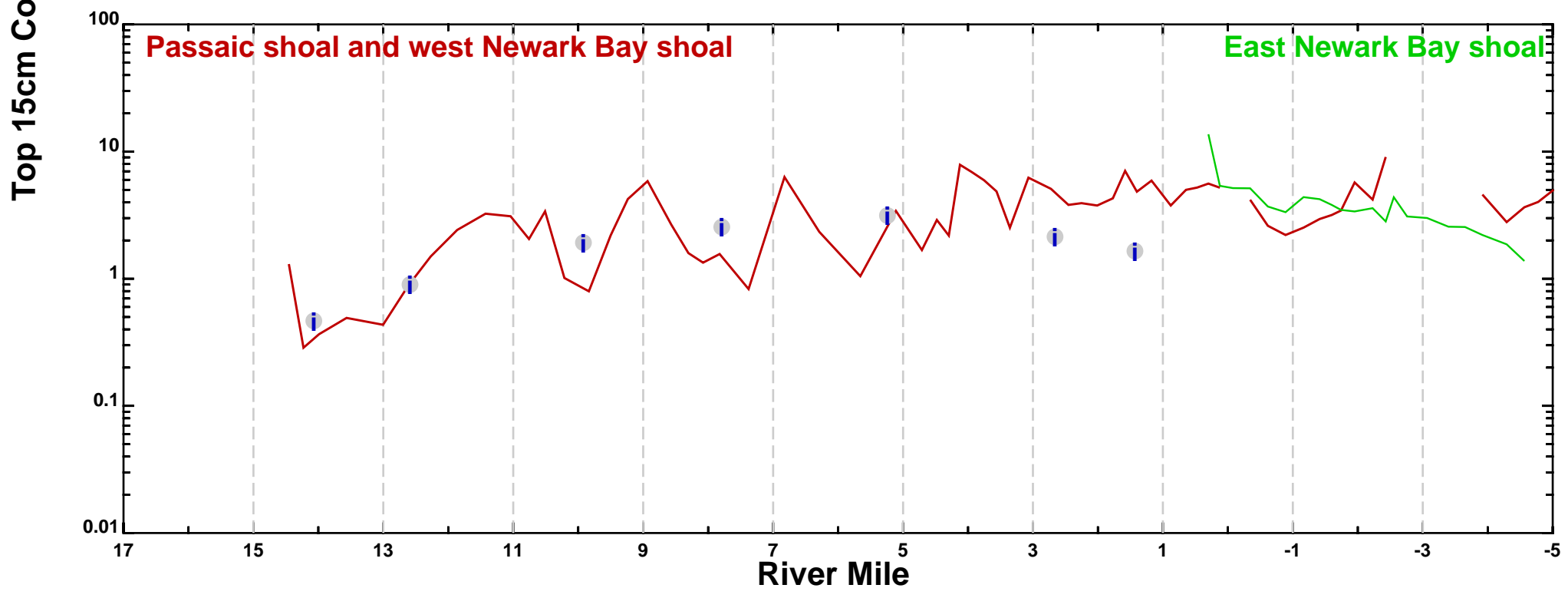
Year =2007.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

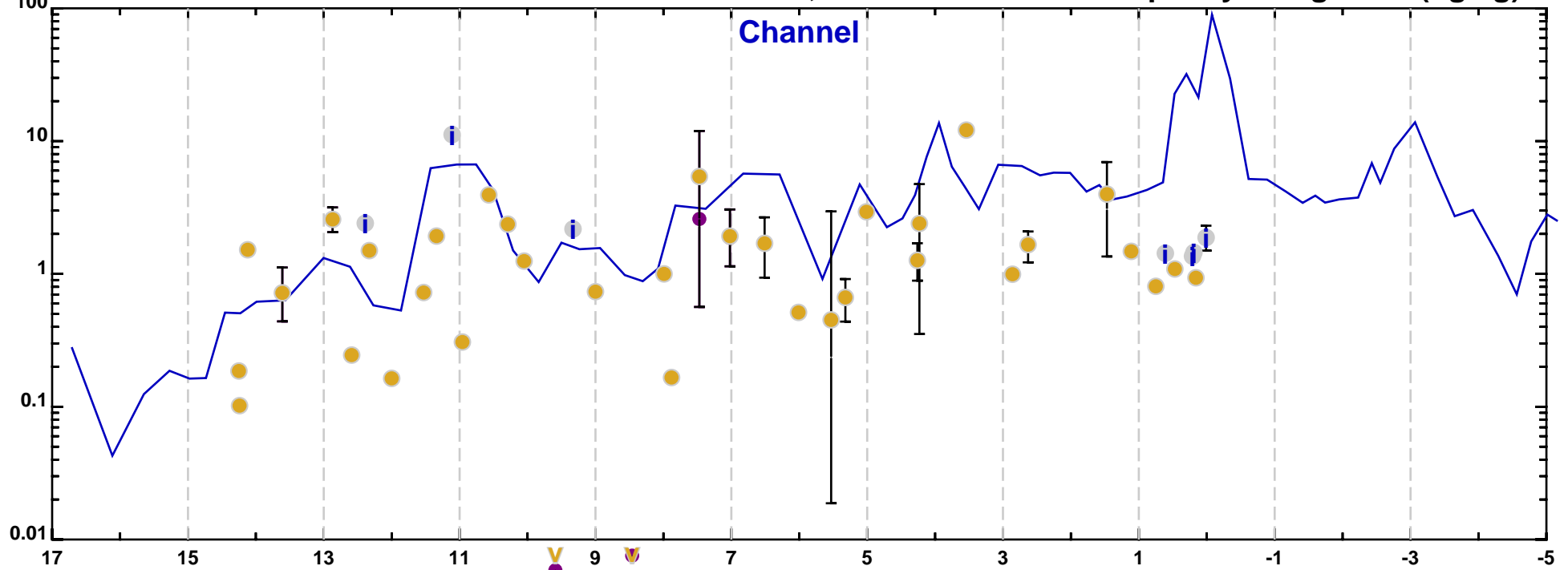


Year =2008.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)

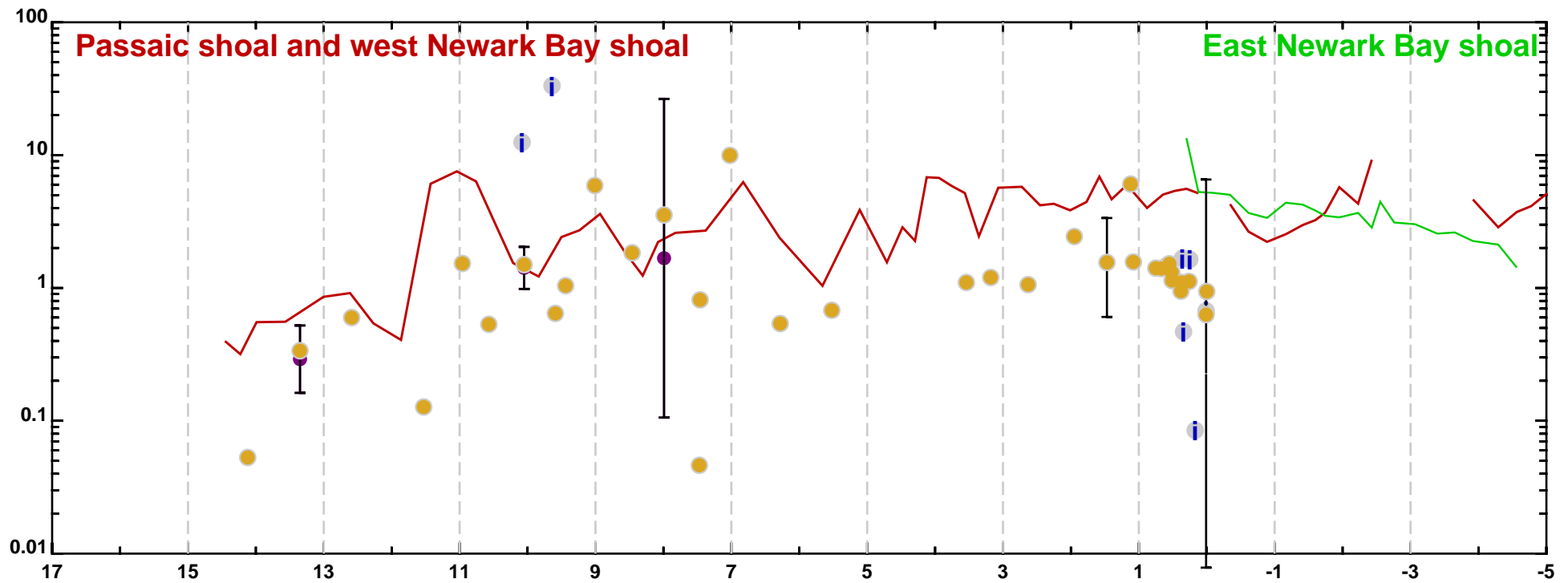
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

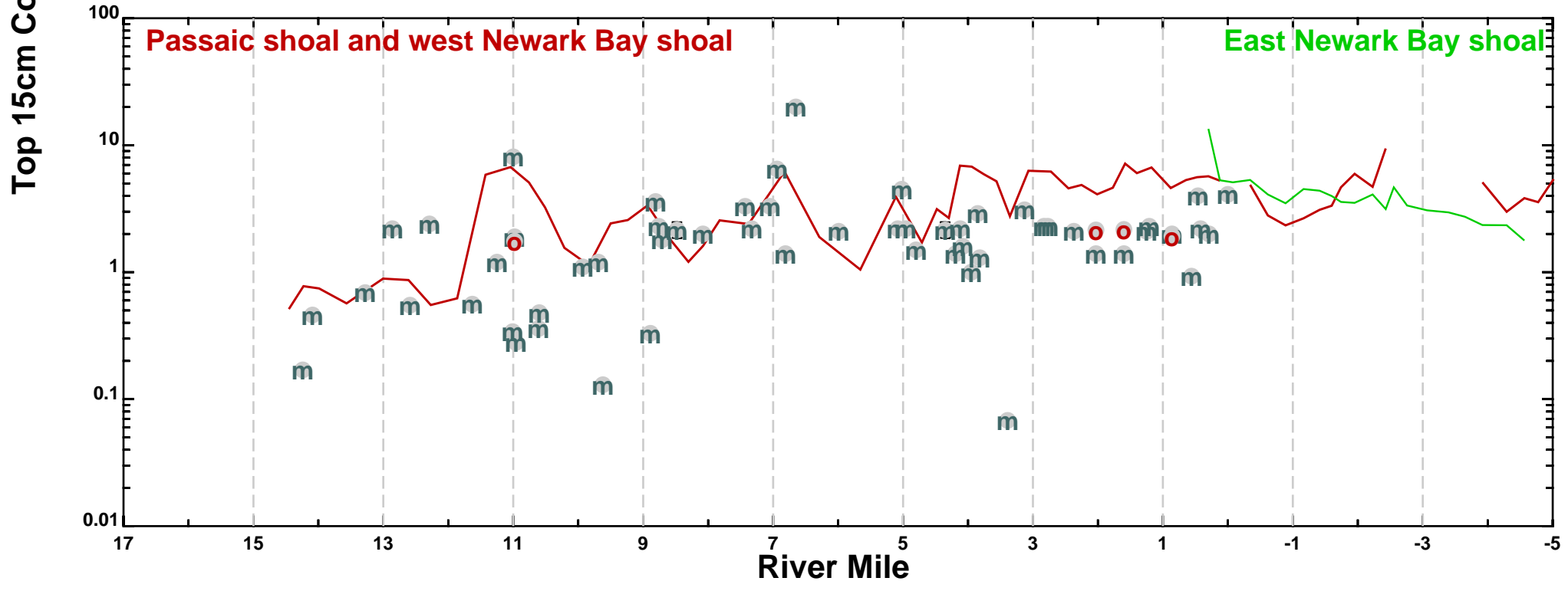
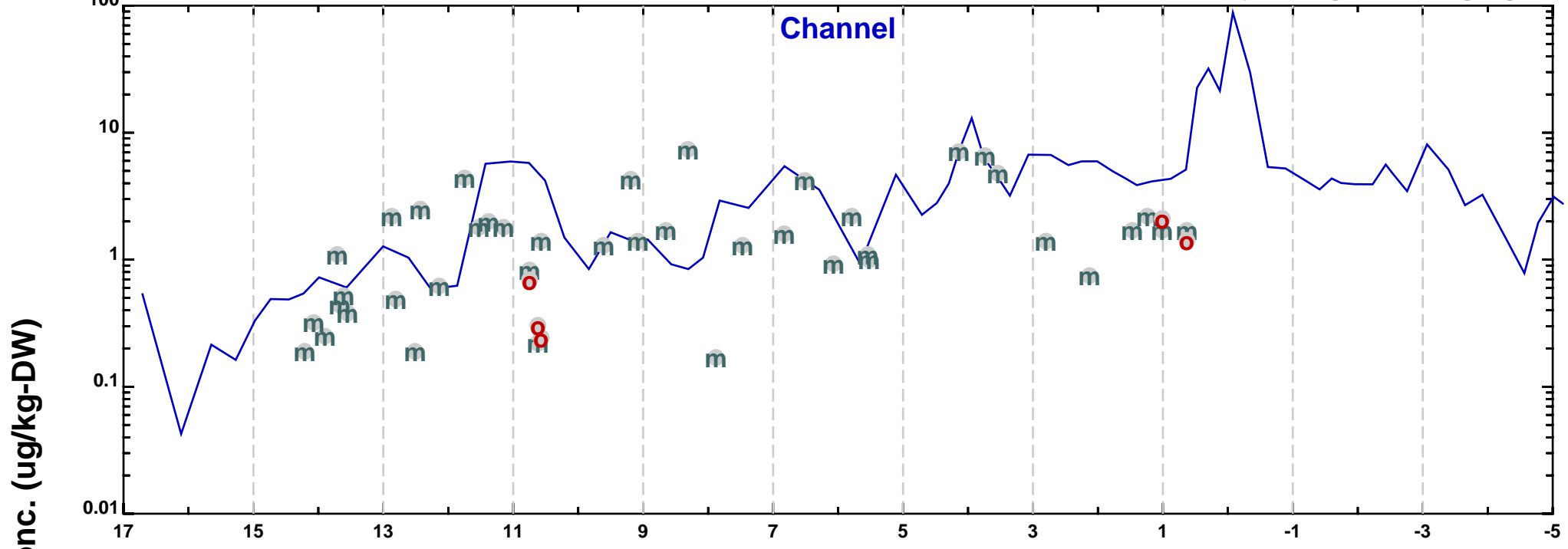
East Newark Bay shoal



River Mile

Year =2009.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)

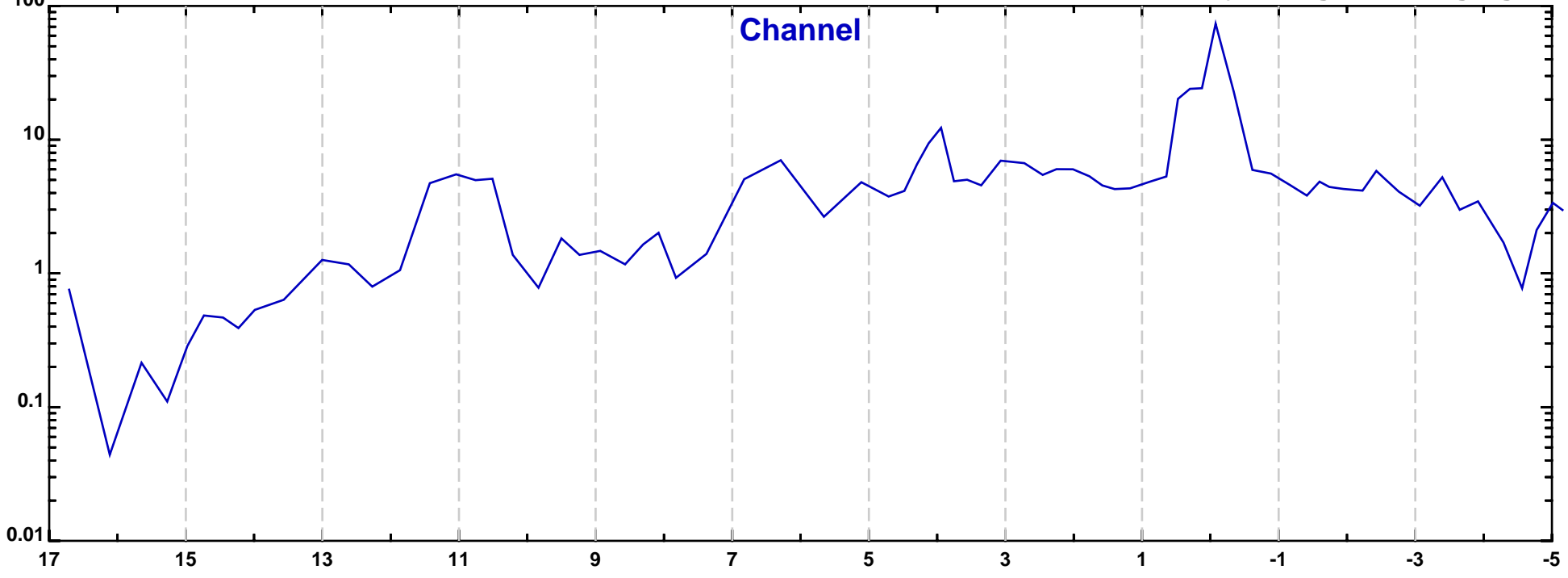


Year =2010.0

PCBs, sum of monochloro biphenyl congeners (ug/kg)

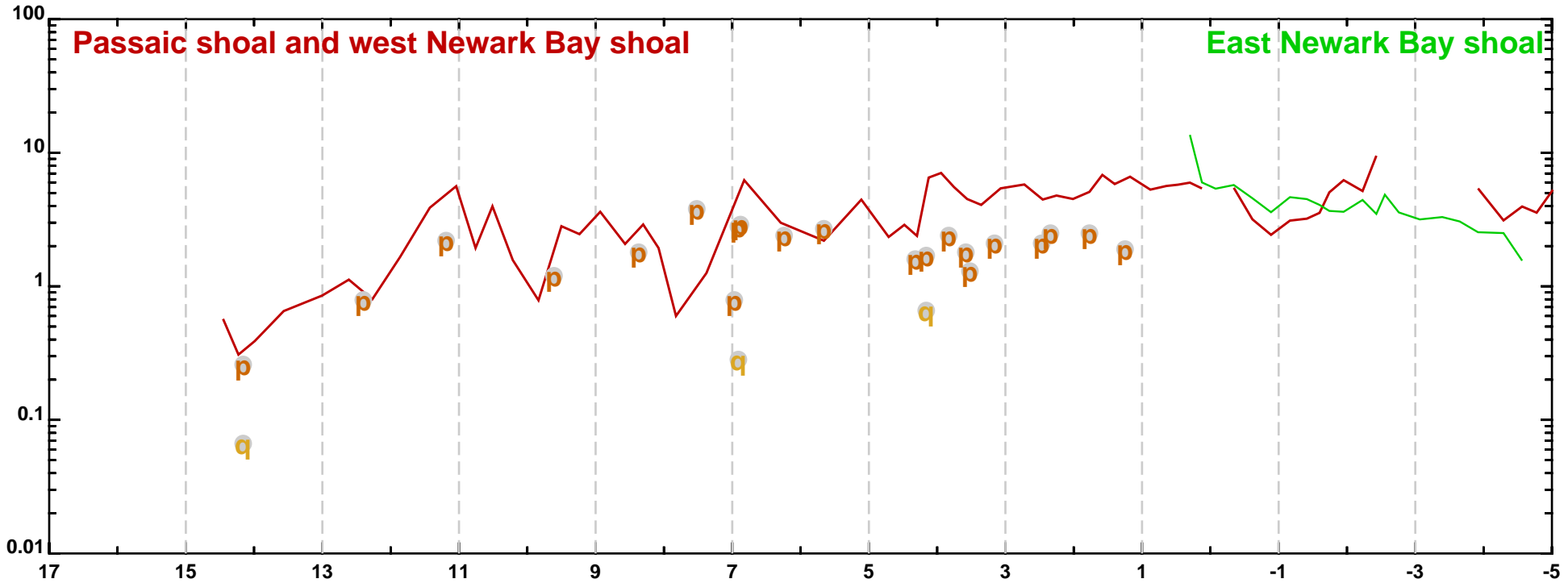
Top 15cm Conc. (ug/kg-DW)

Channel



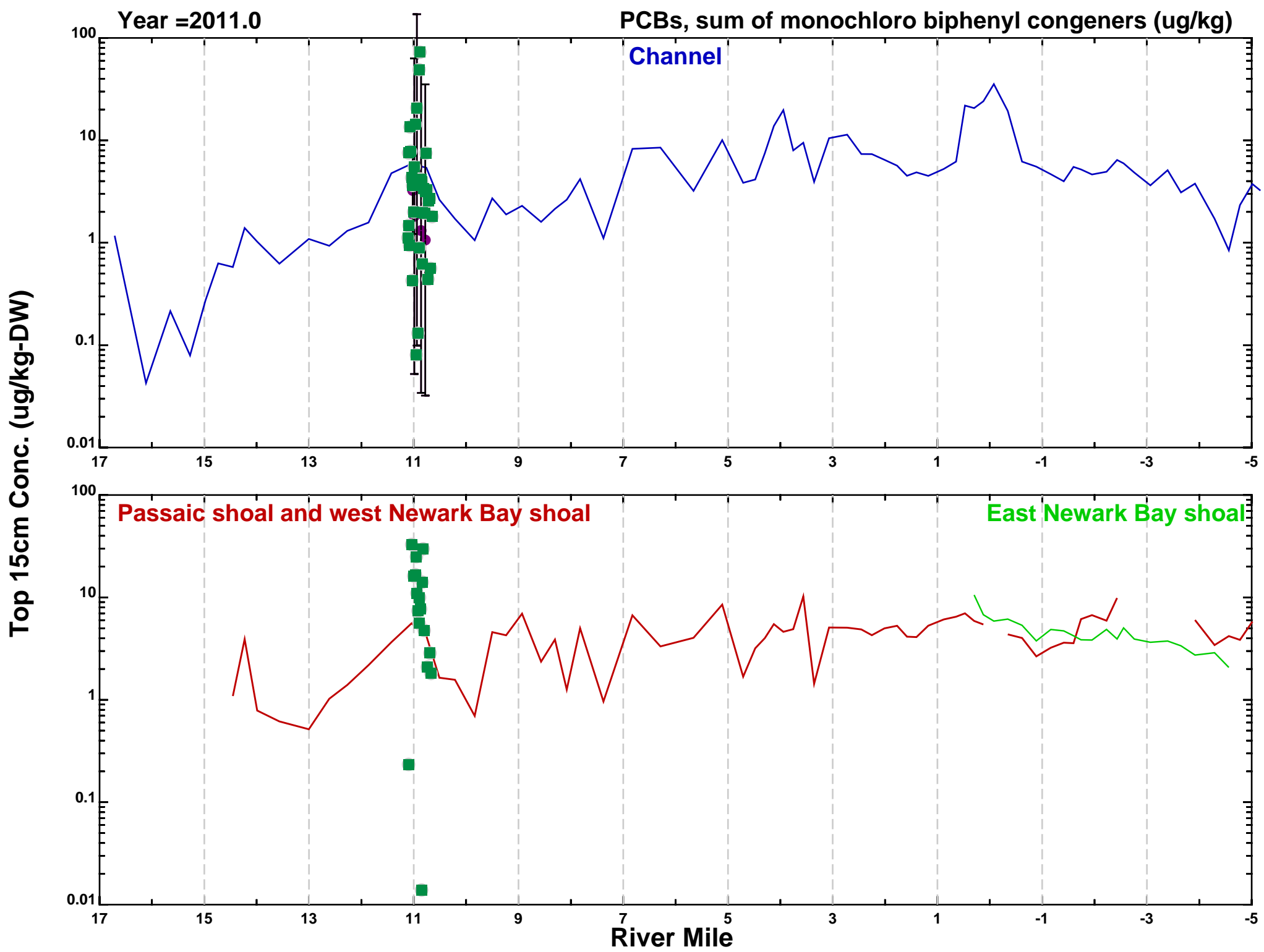
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

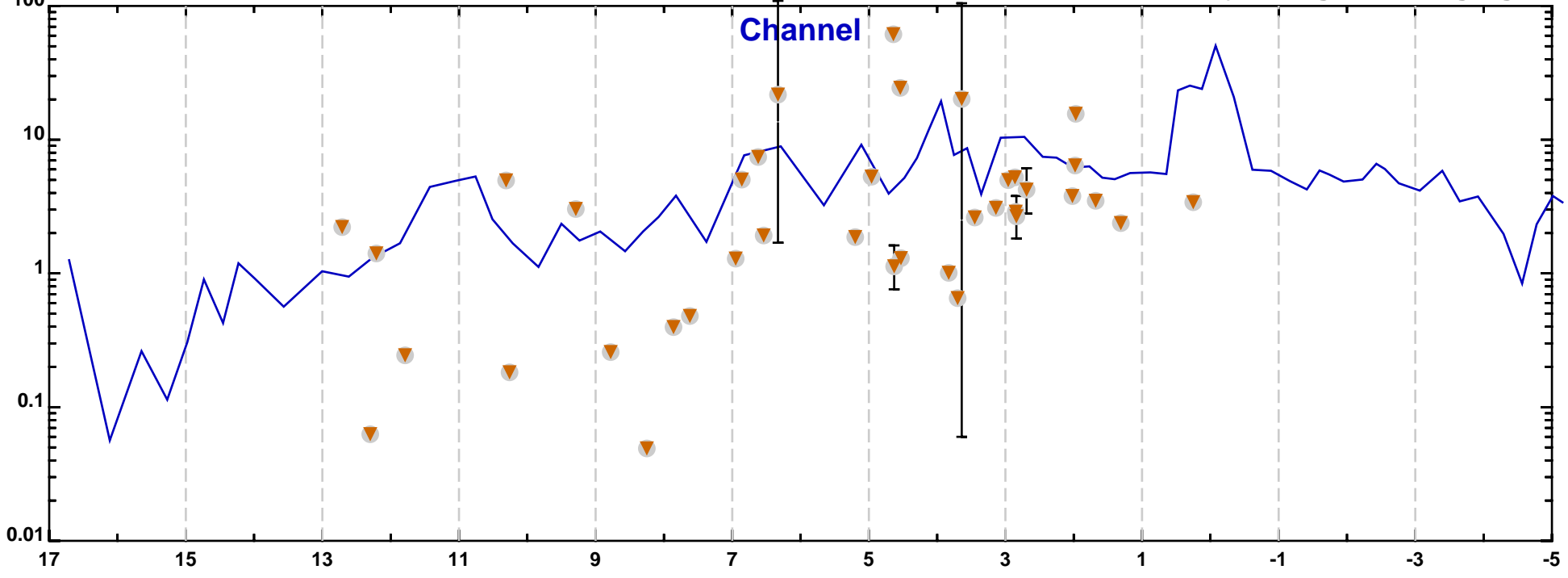




Year =2012.0

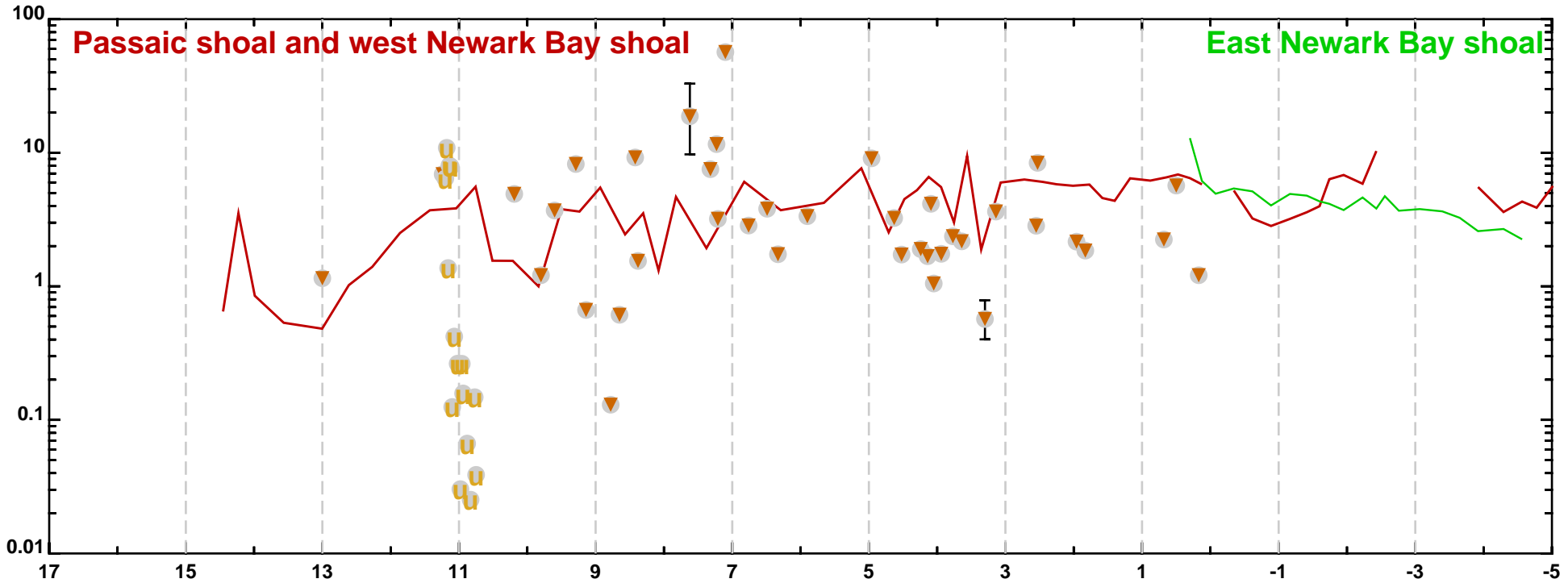
PCBs, sum of monochloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

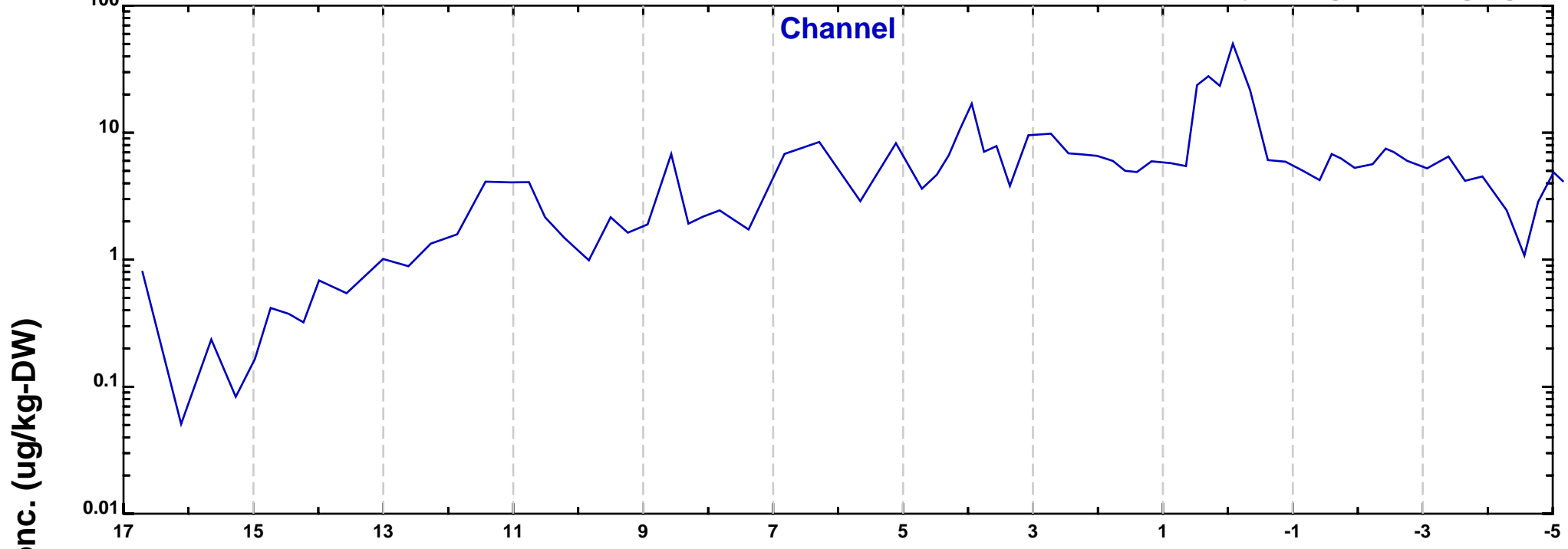
East Newark Bay shoal



River Mile

Year =2013.0

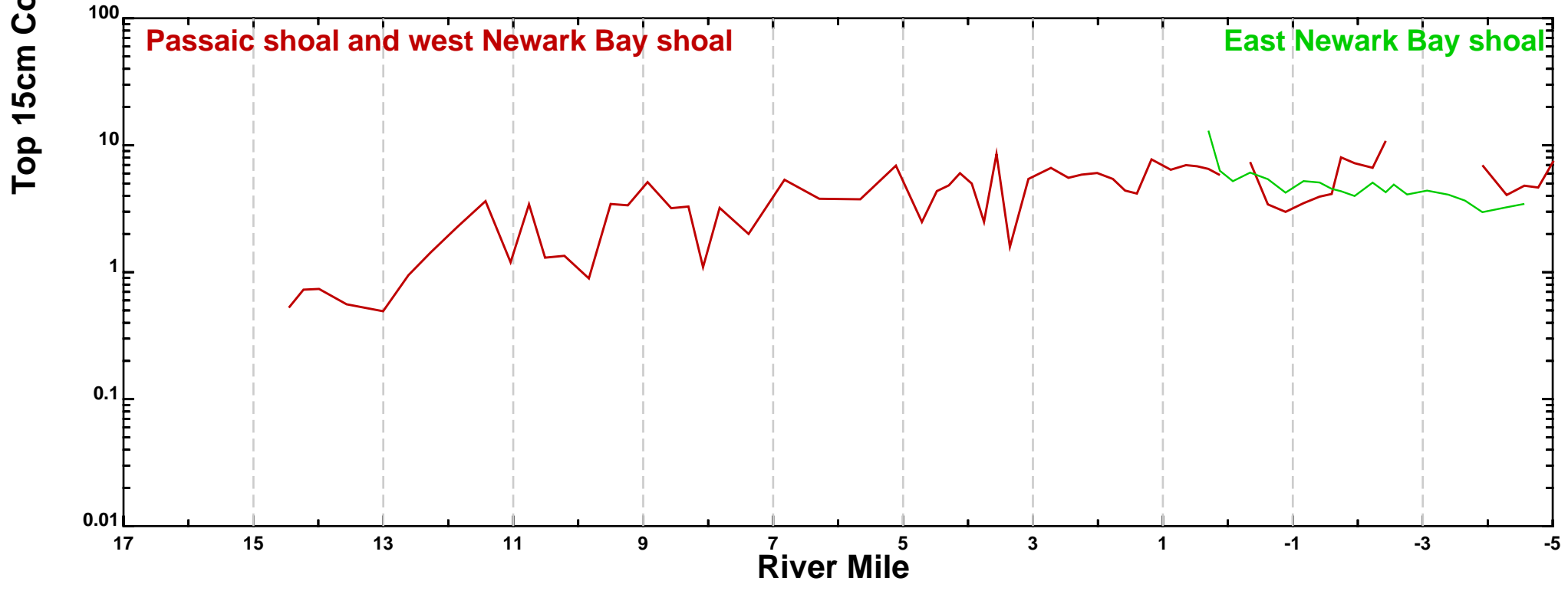
PCBs, sum of monochloro biphenyl congeners (ug/kg)



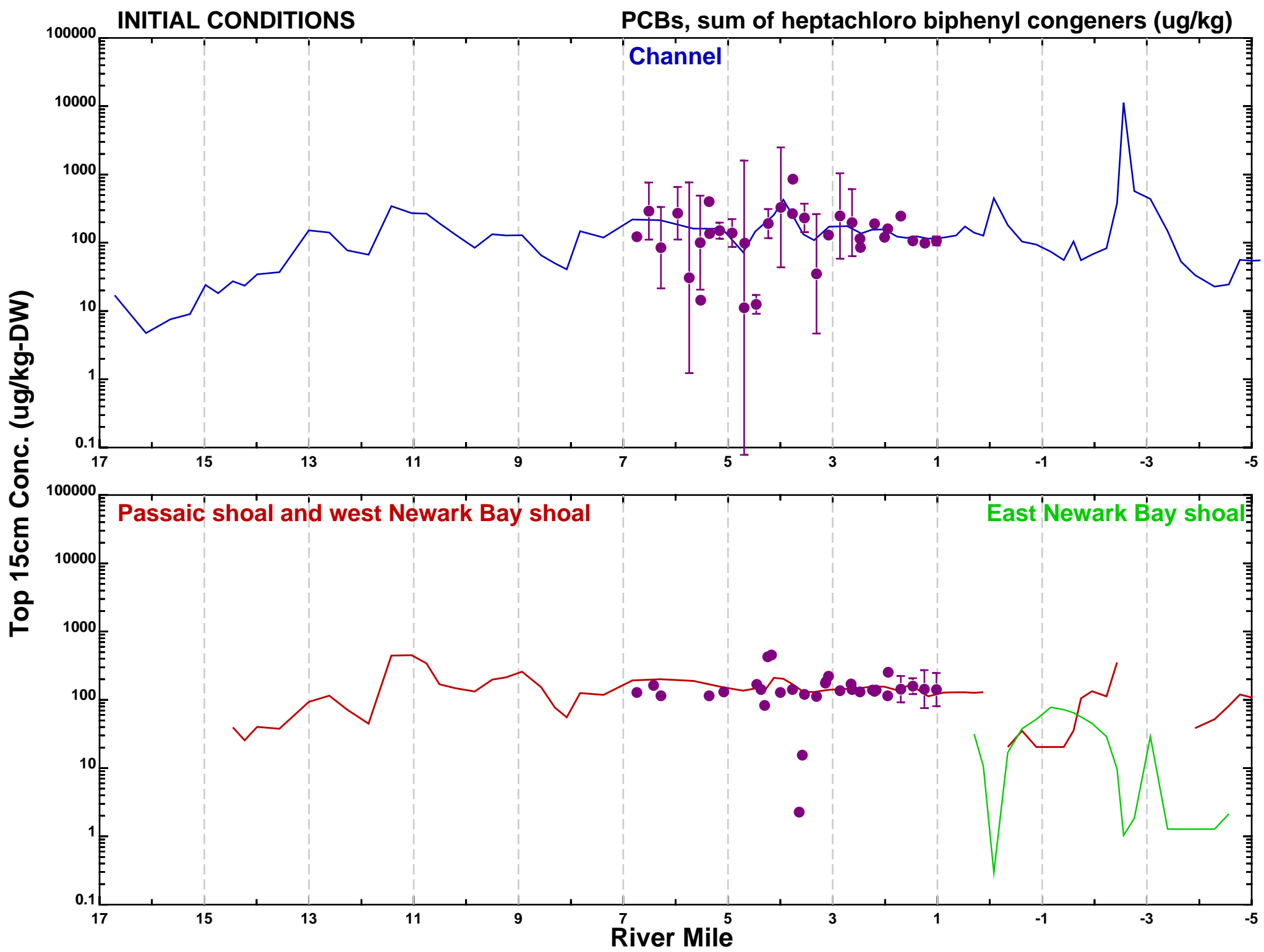
Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

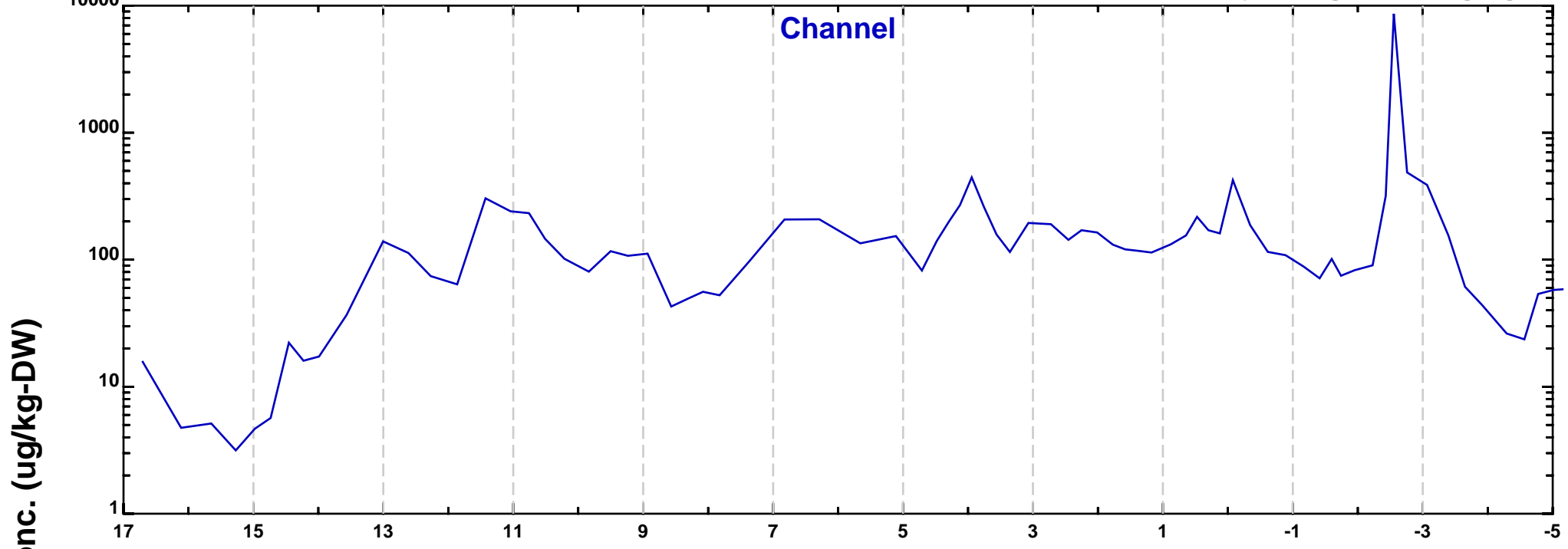


River Mile



Year =1996.0

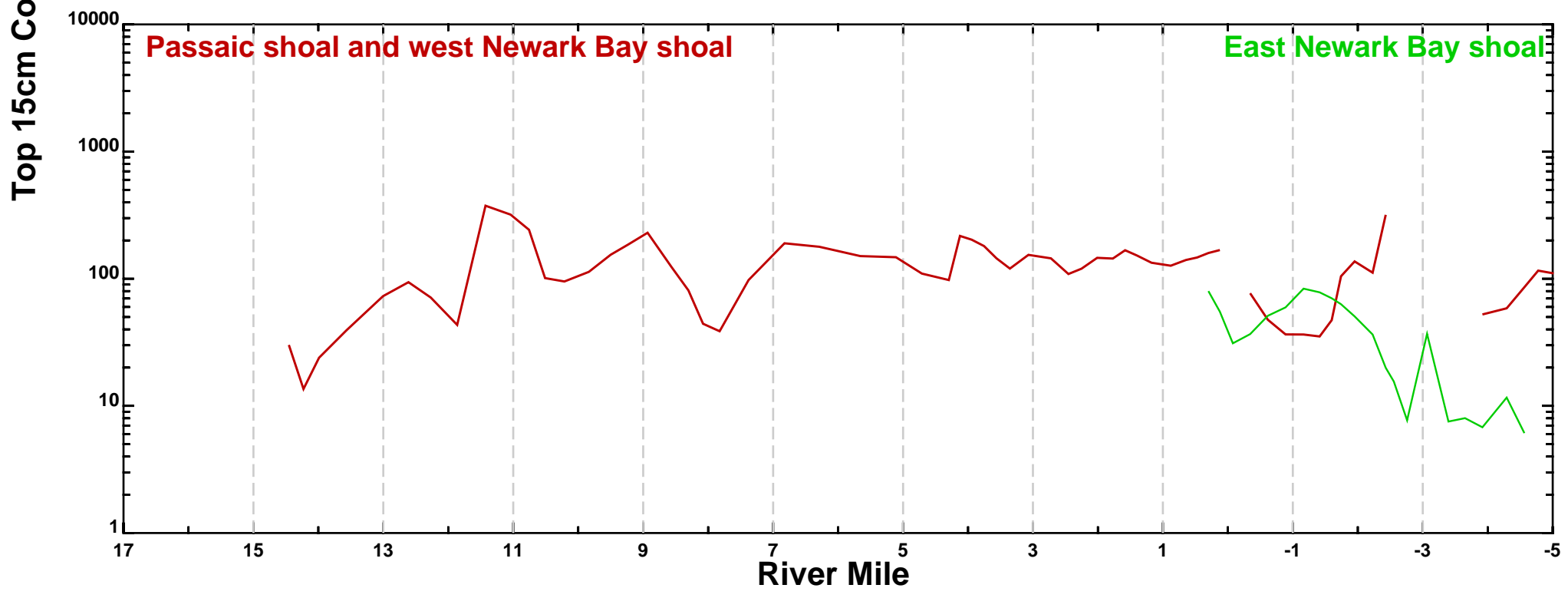
PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

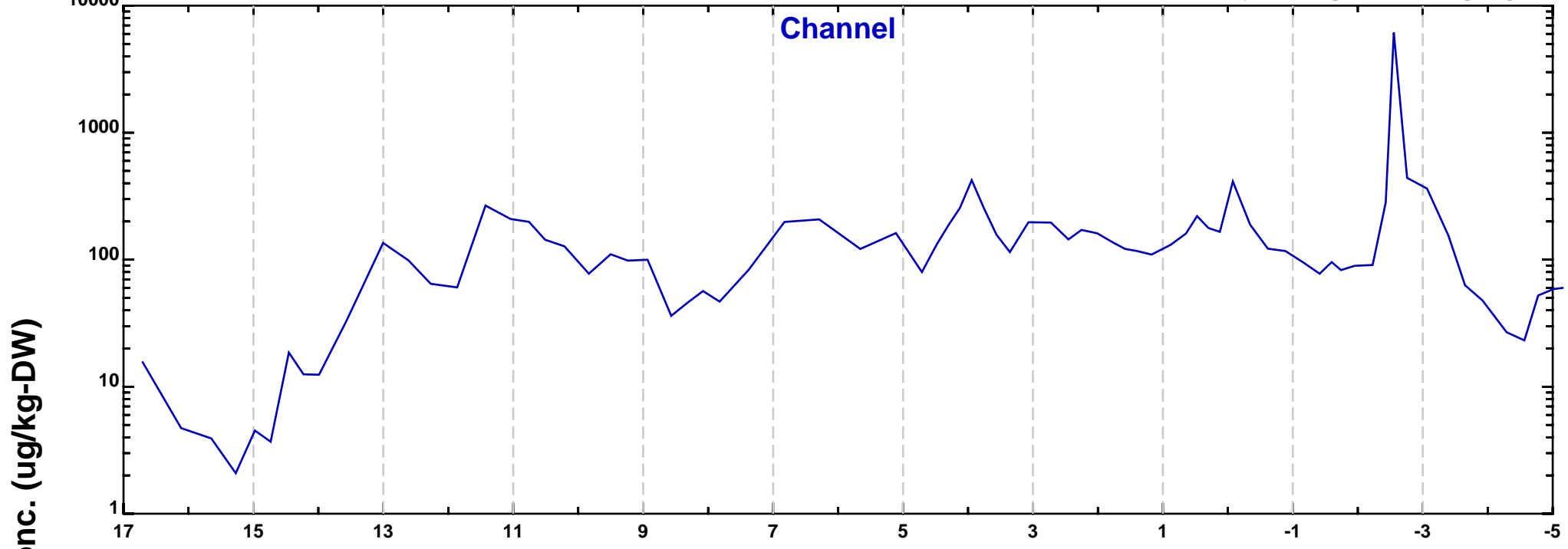
East Newark Bay shoal



River Mile

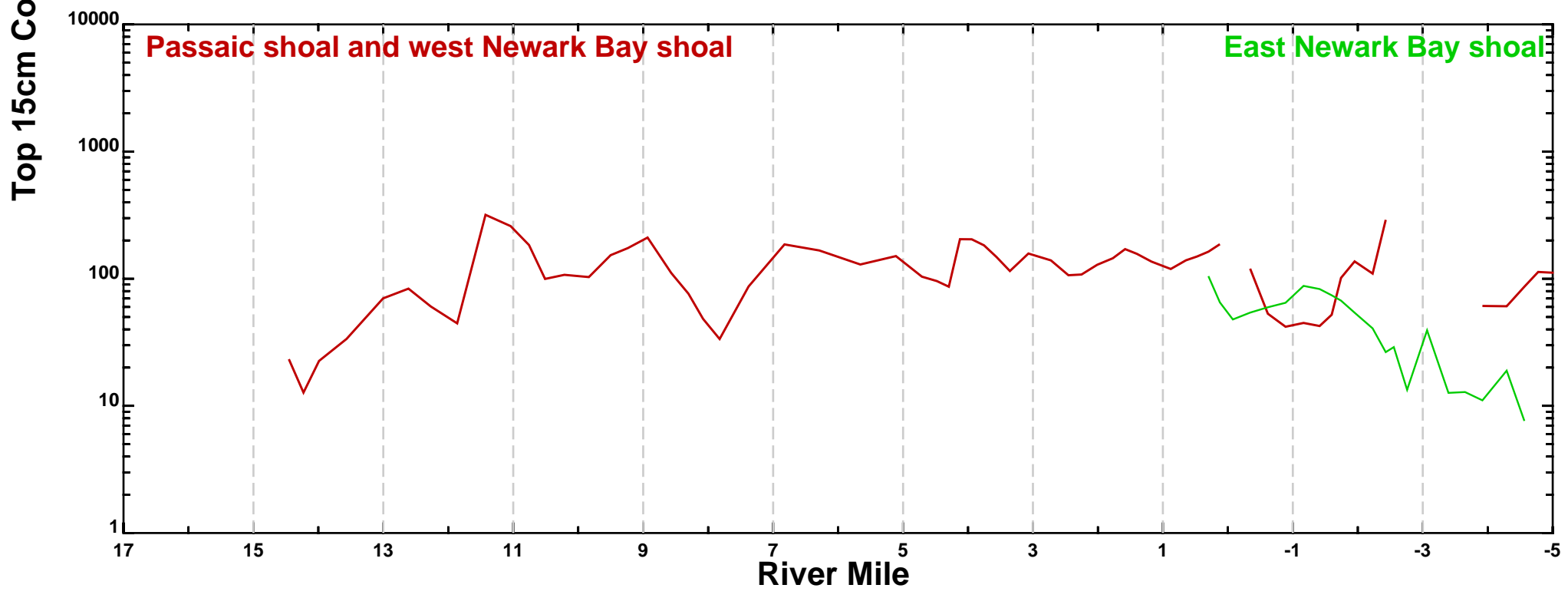
Year =1997.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



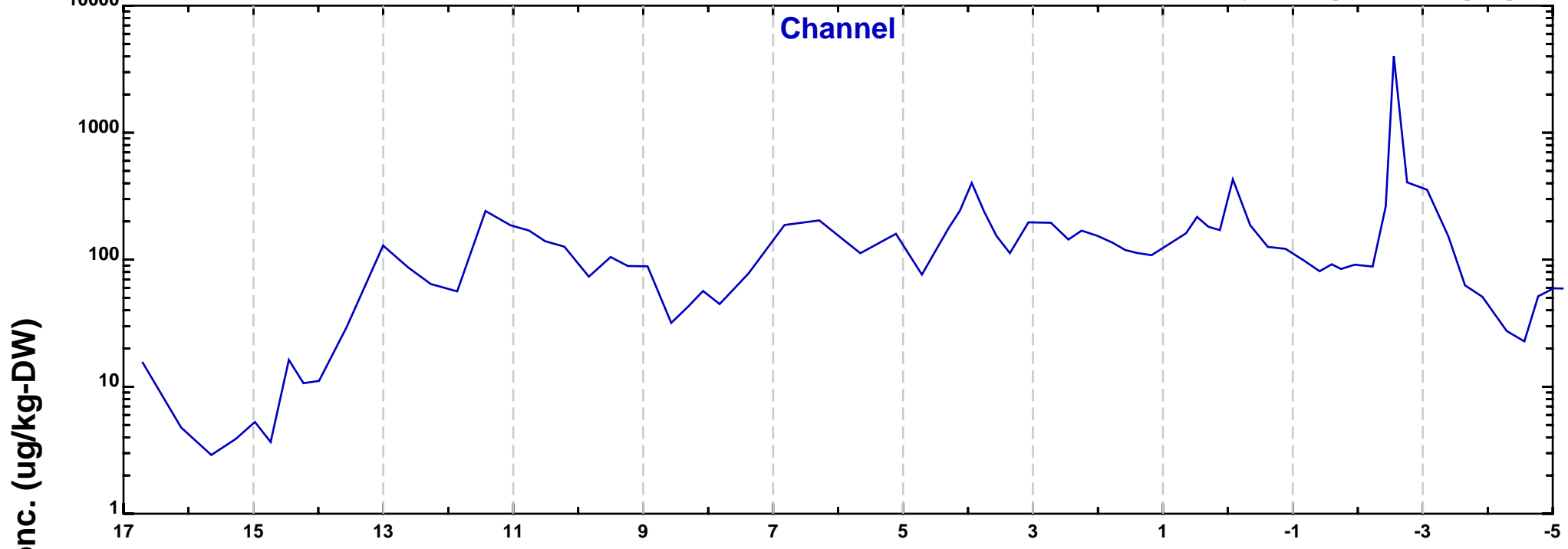
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



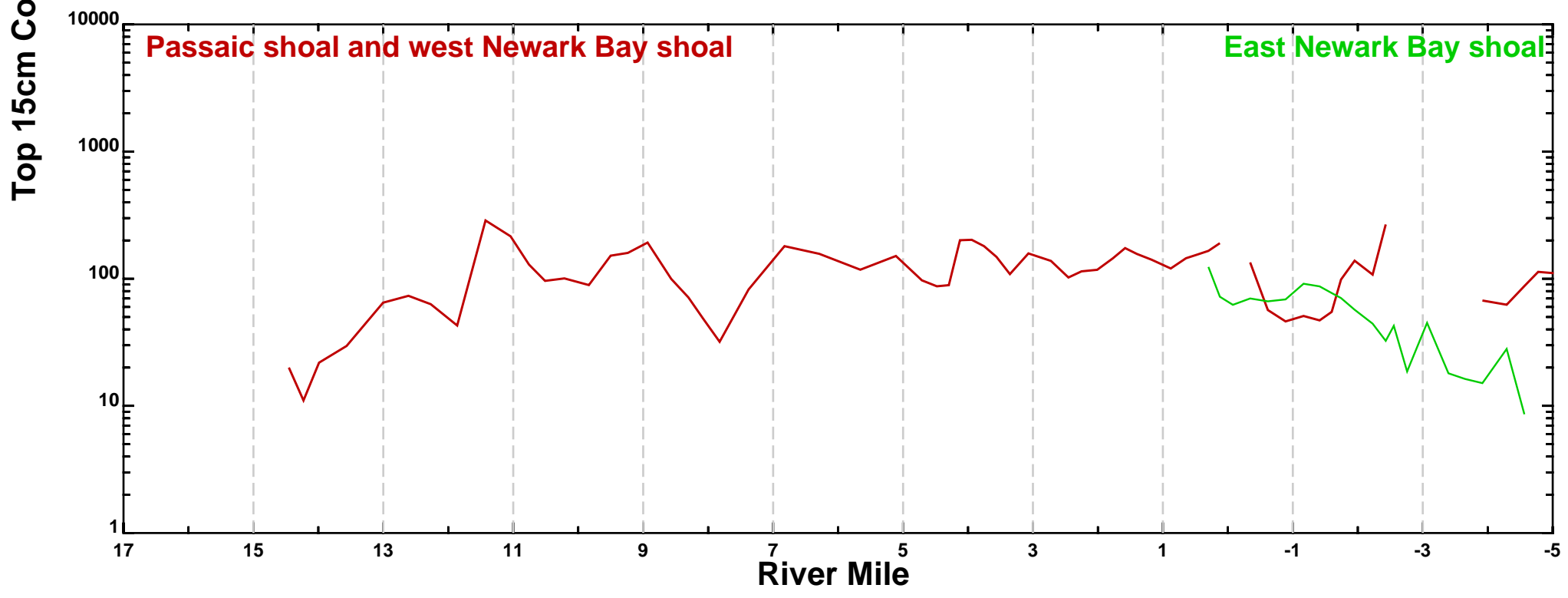
Year =1998.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



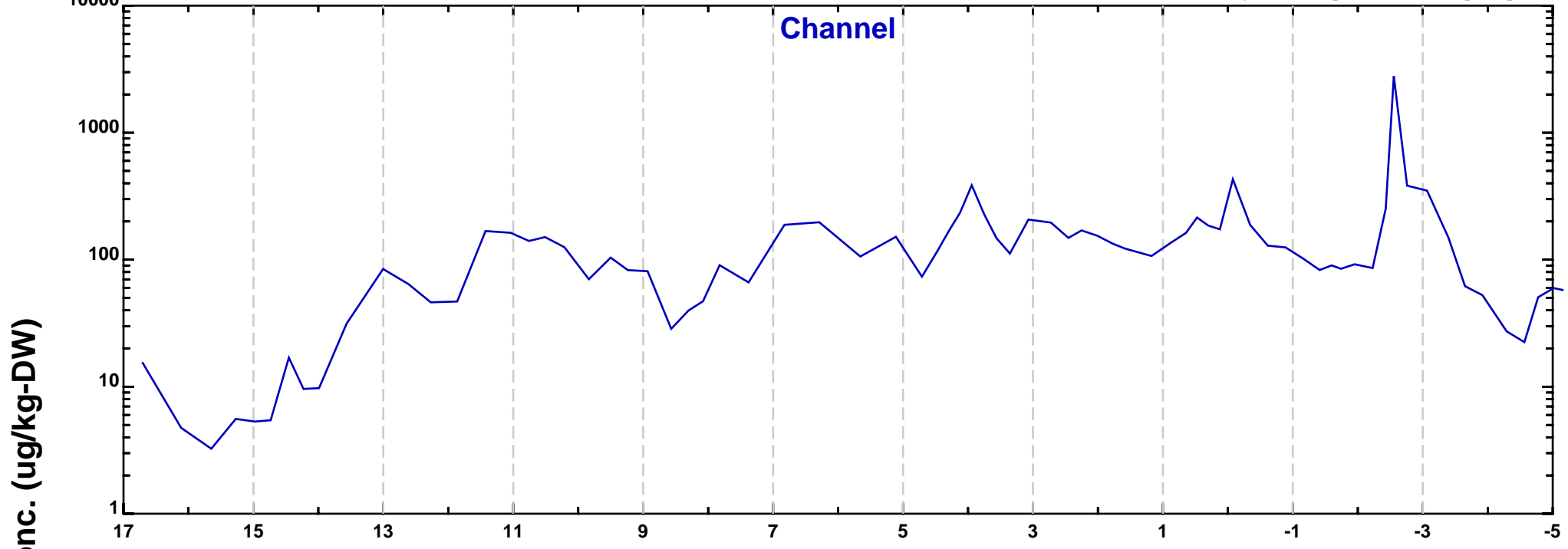
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



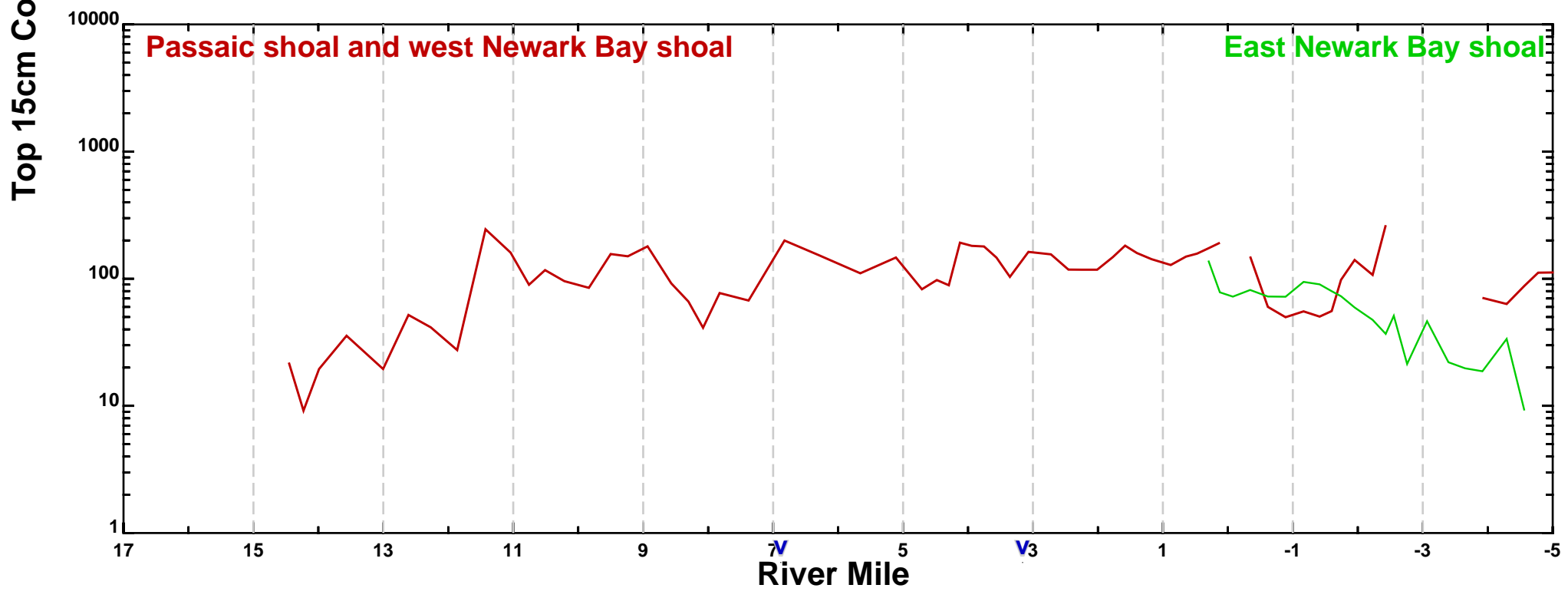
Year = 1999.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

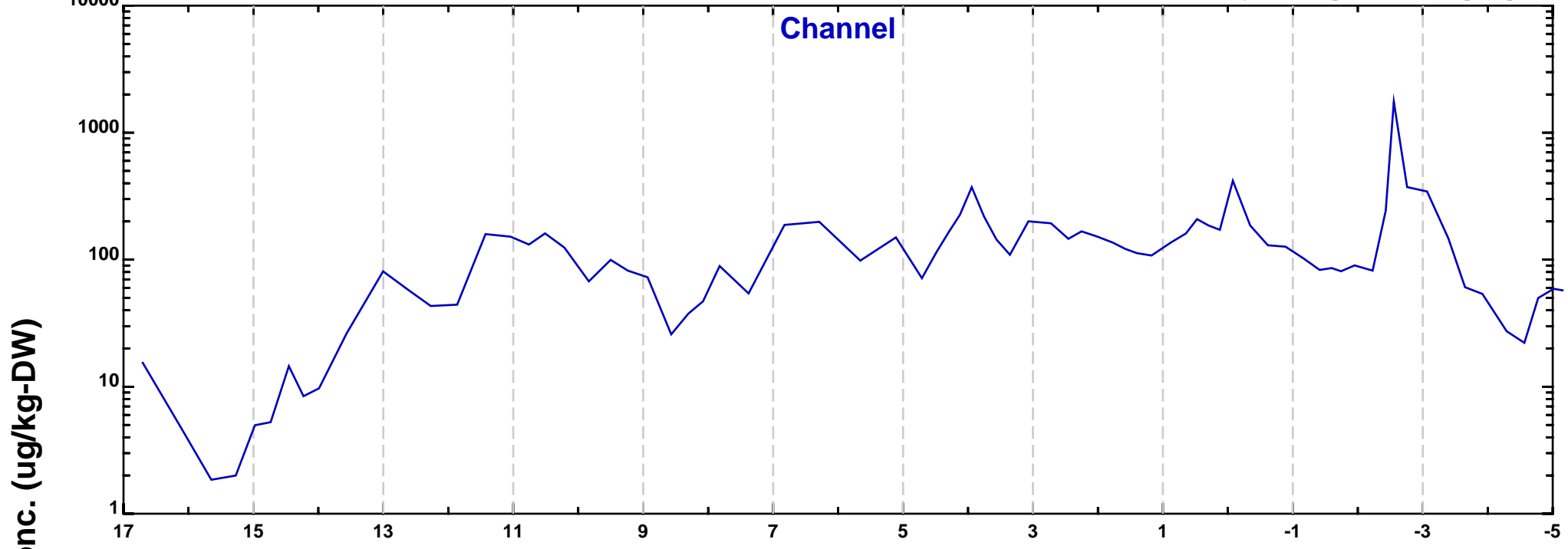
East Newark Bay shoal





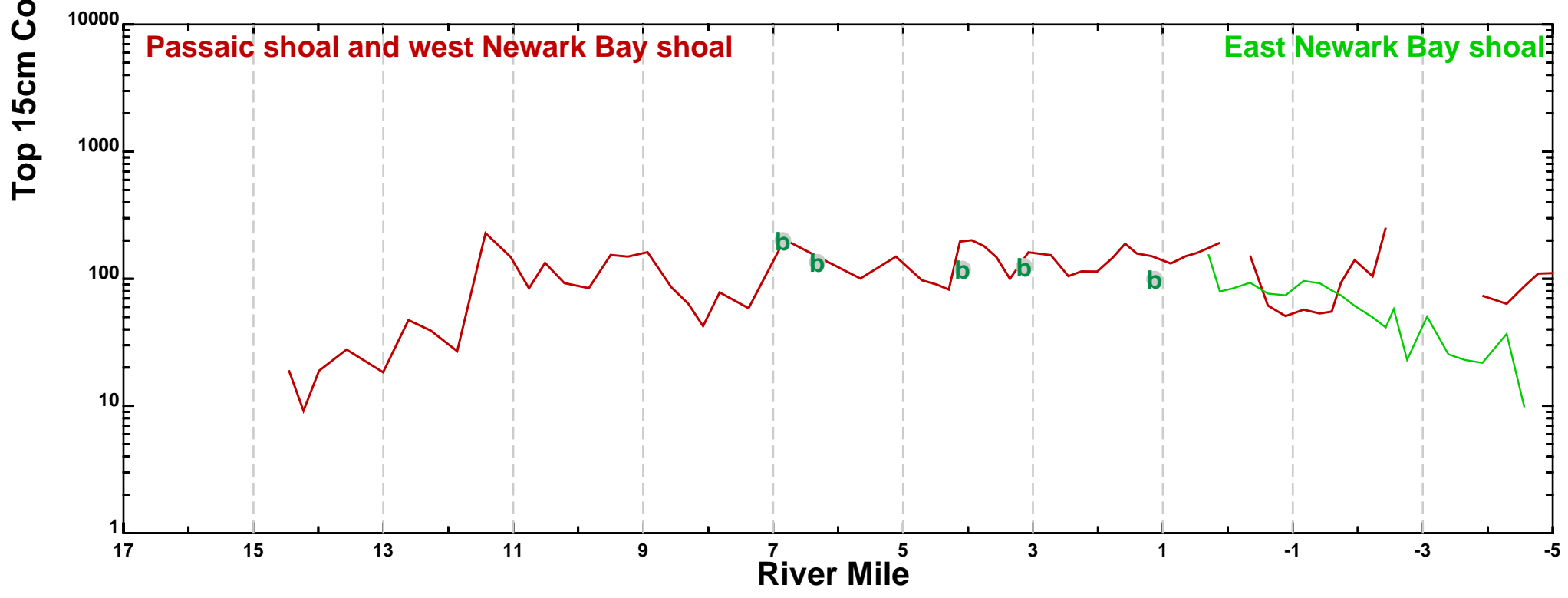
Year =2000.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

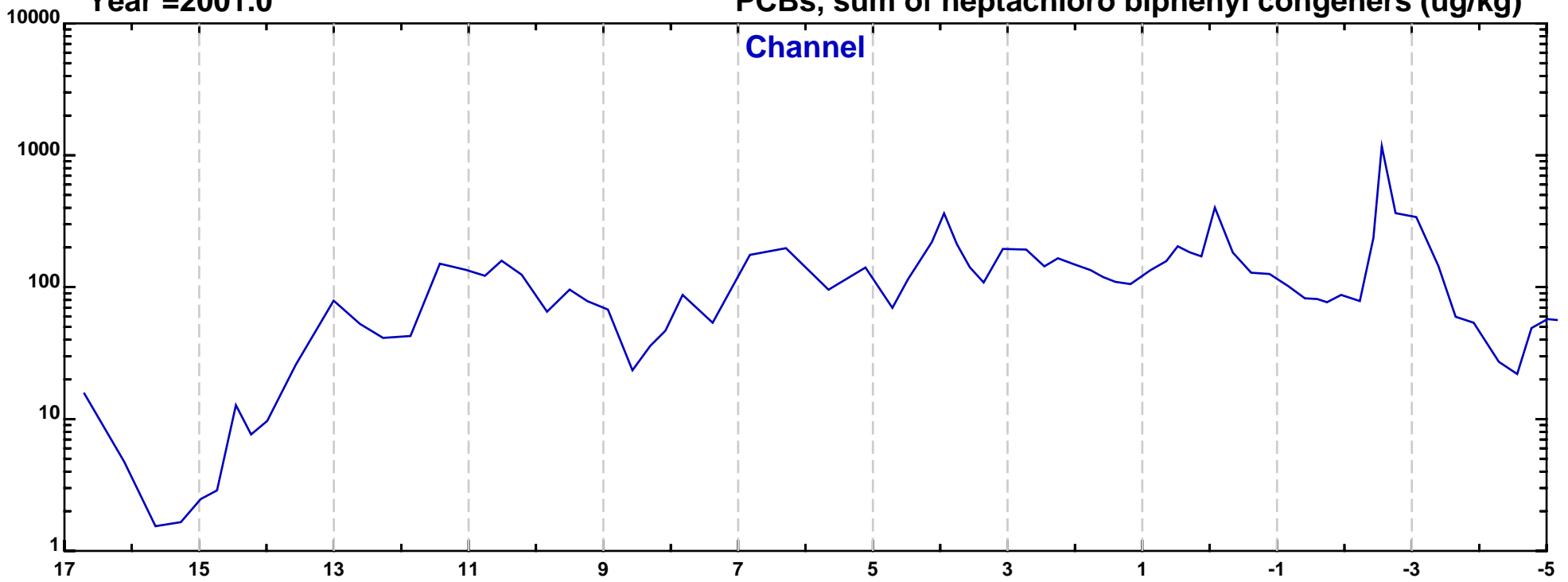


Year =2001.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)

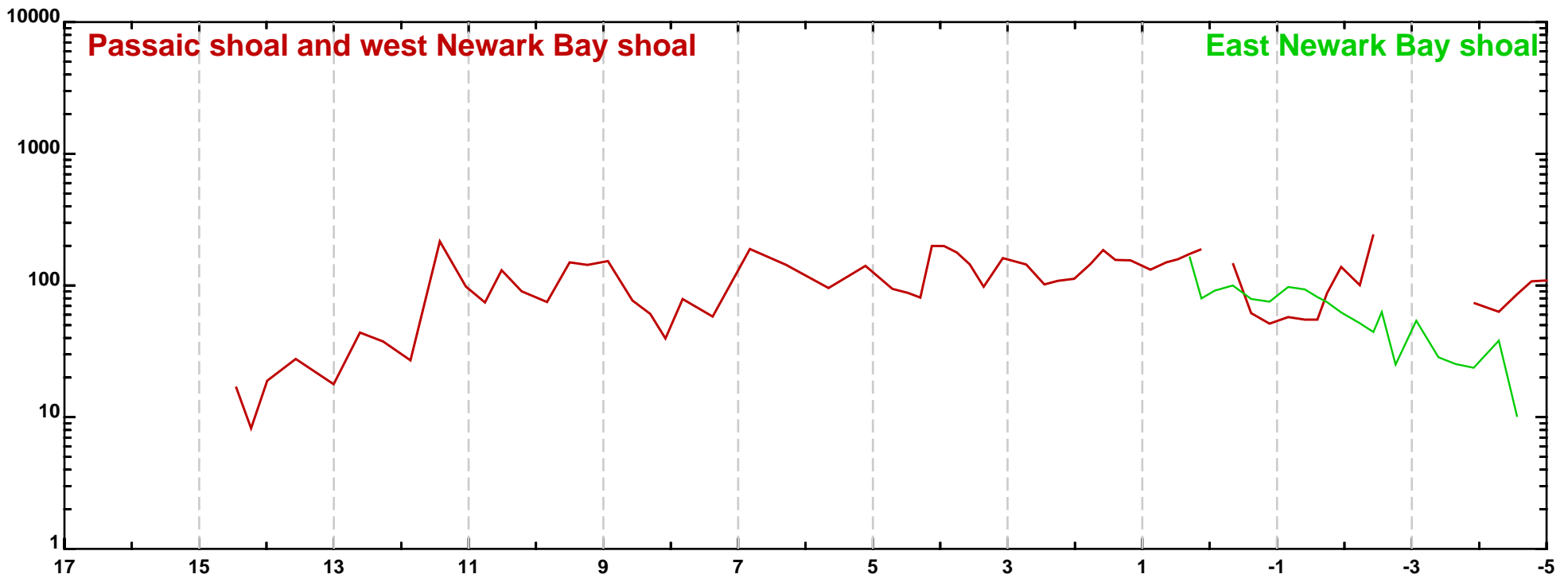
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

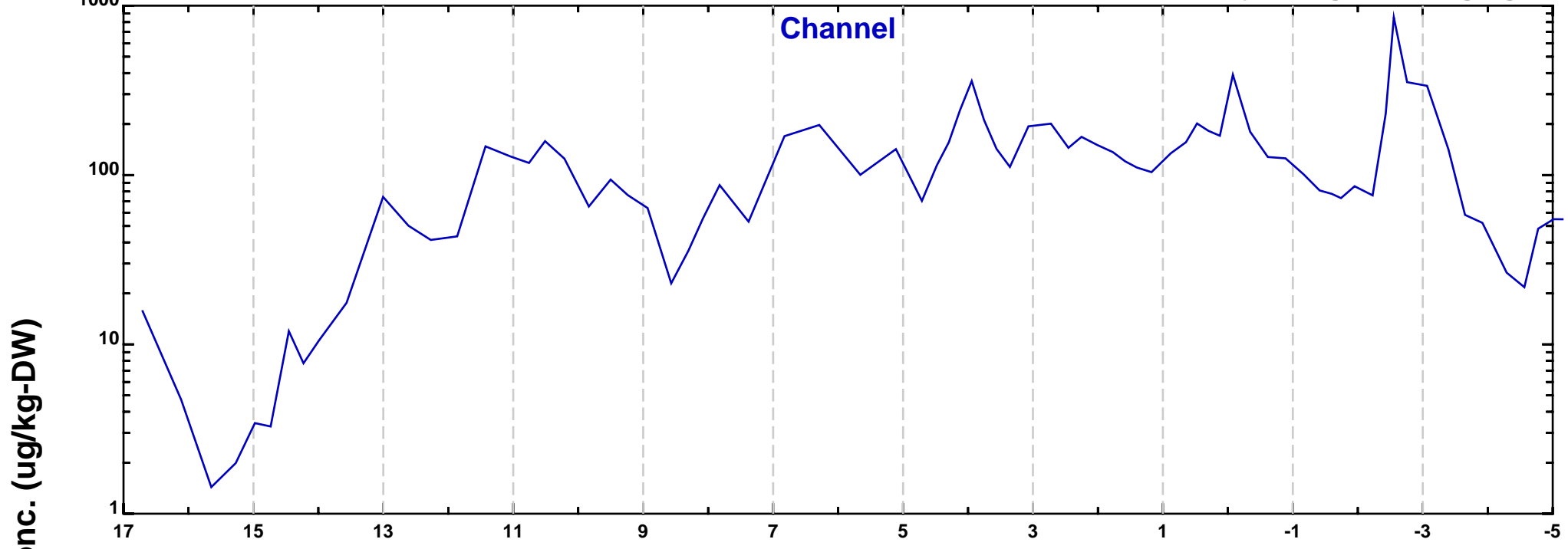
East Newark Bay shoal



River Mile

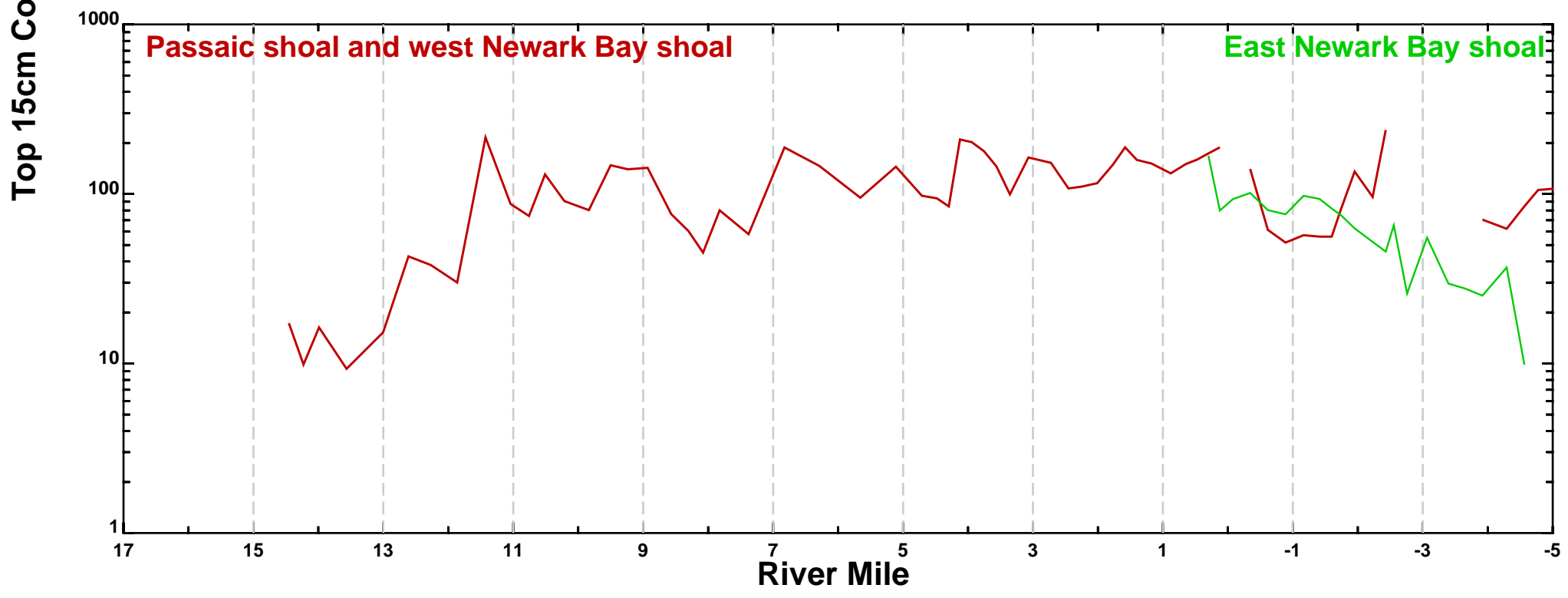
Year =2002.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



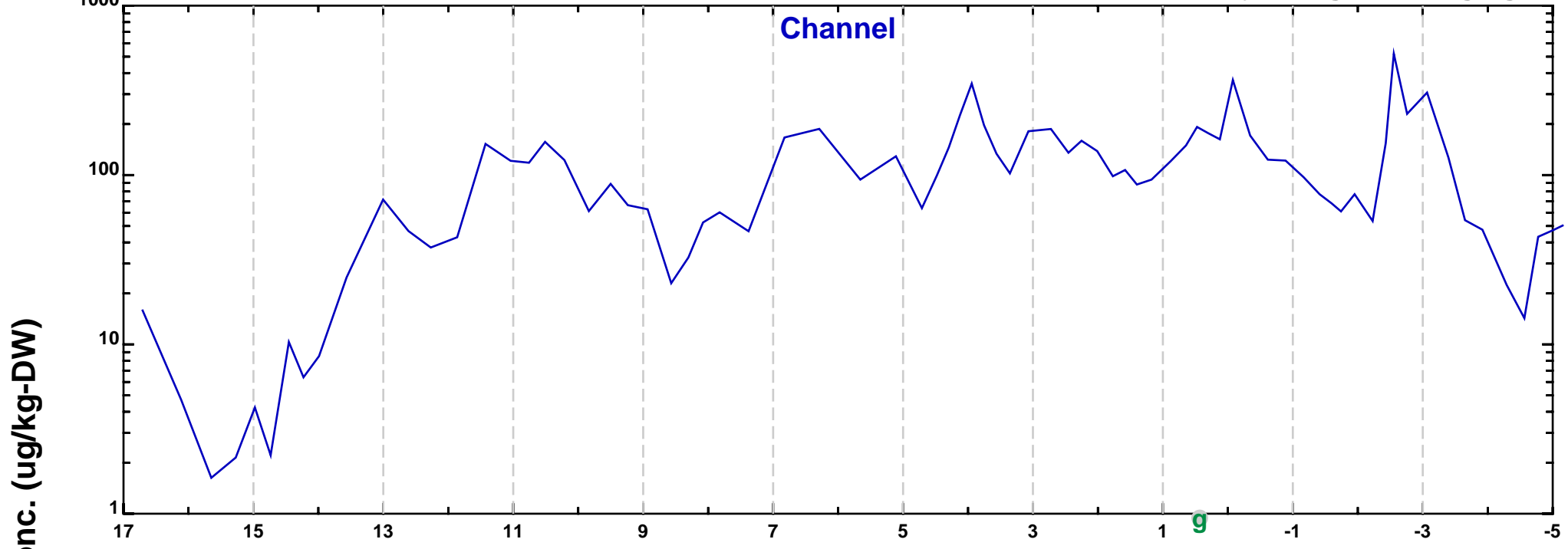
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



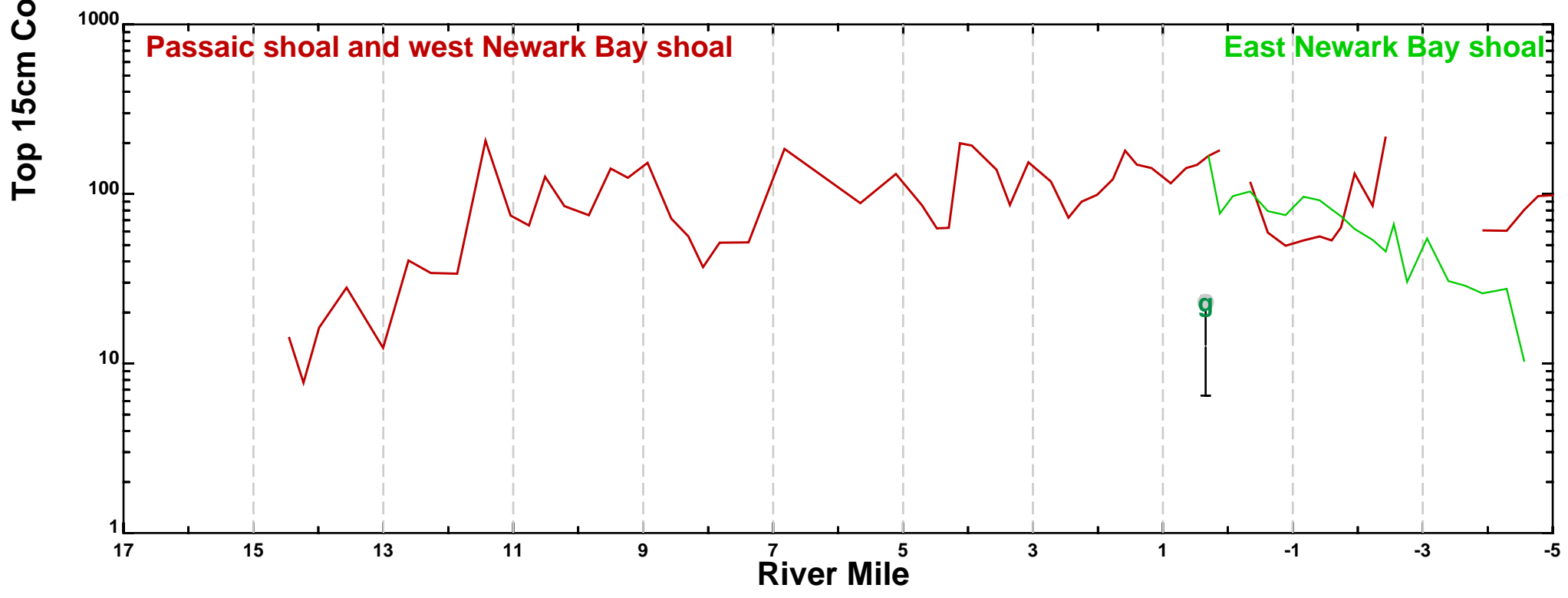
Year =2003.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

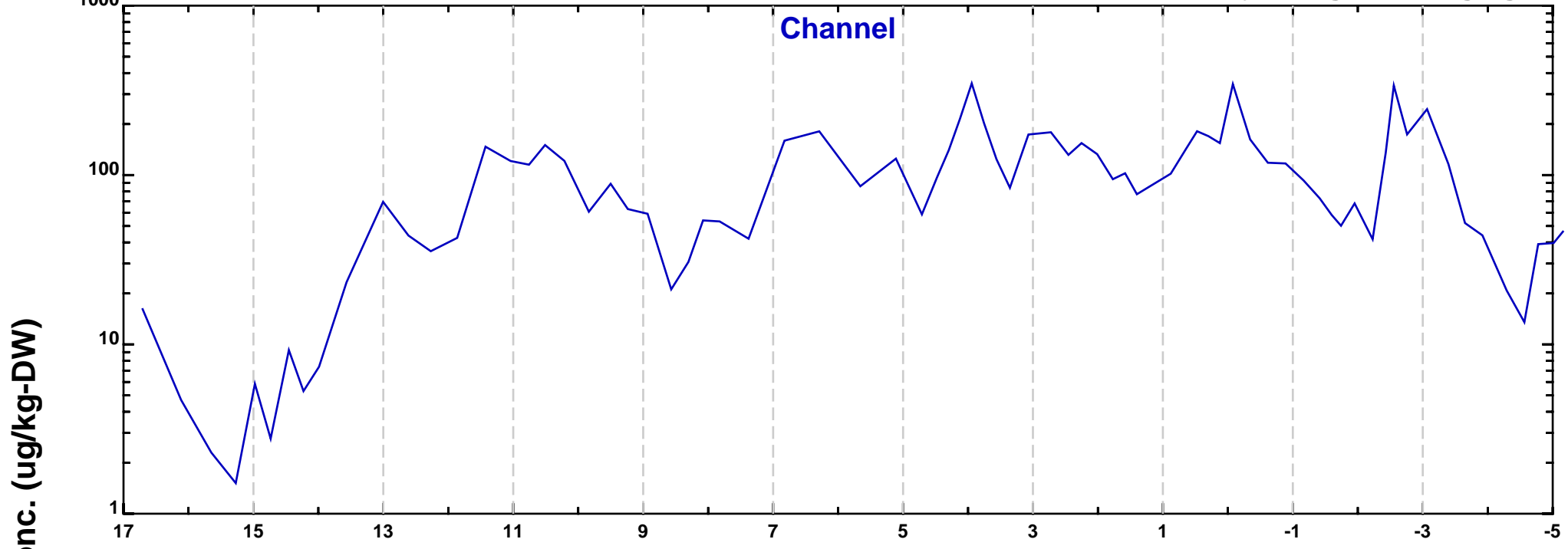
East Newark Bay shoal



River Mile

Year =2004.0

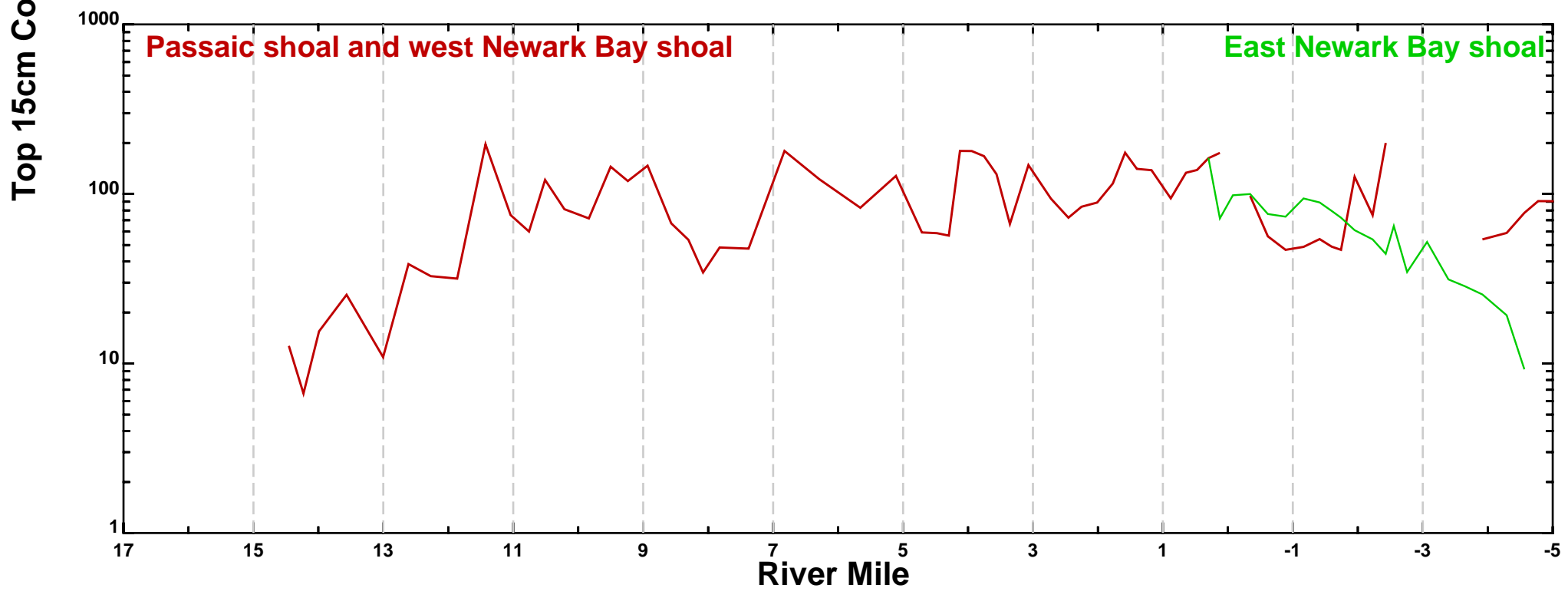
PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

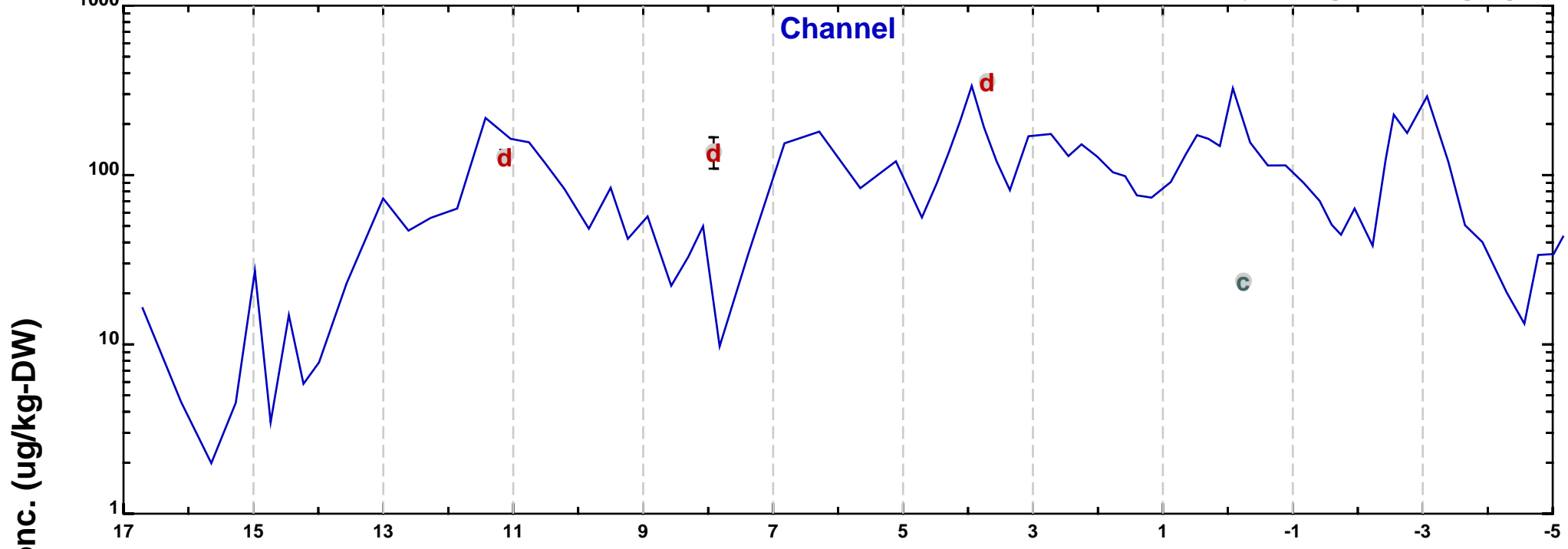
East Newark Bay shoal



River Mile

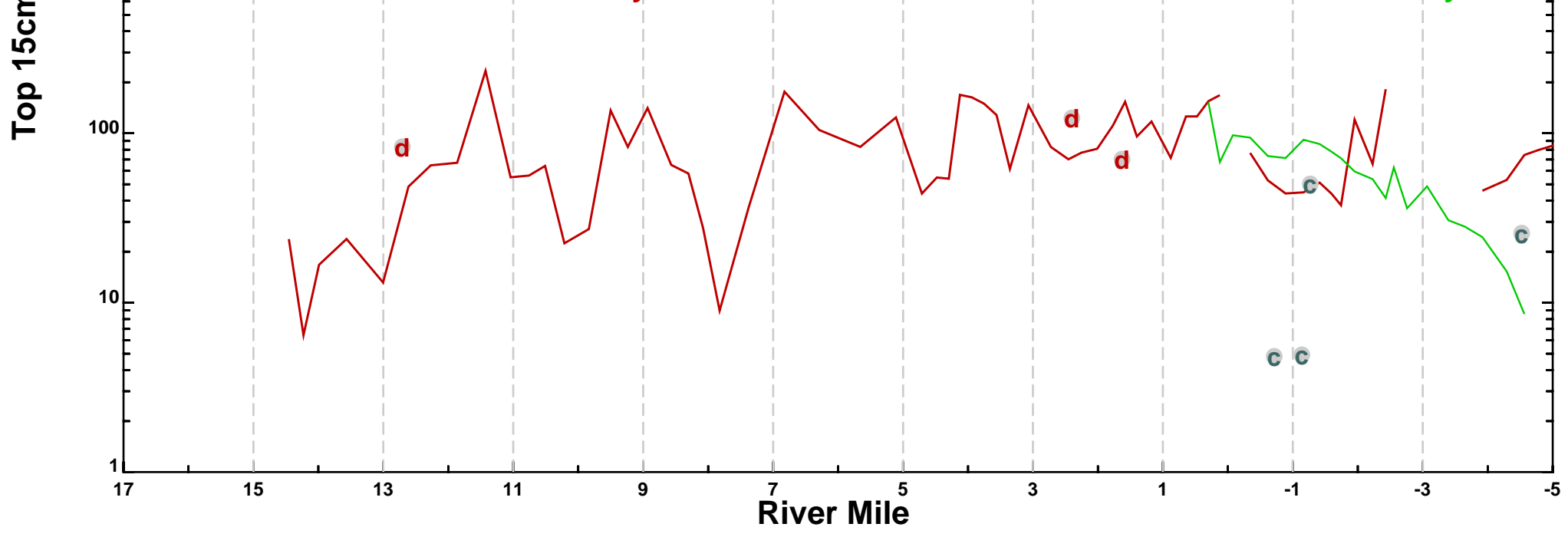
Year =2005.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

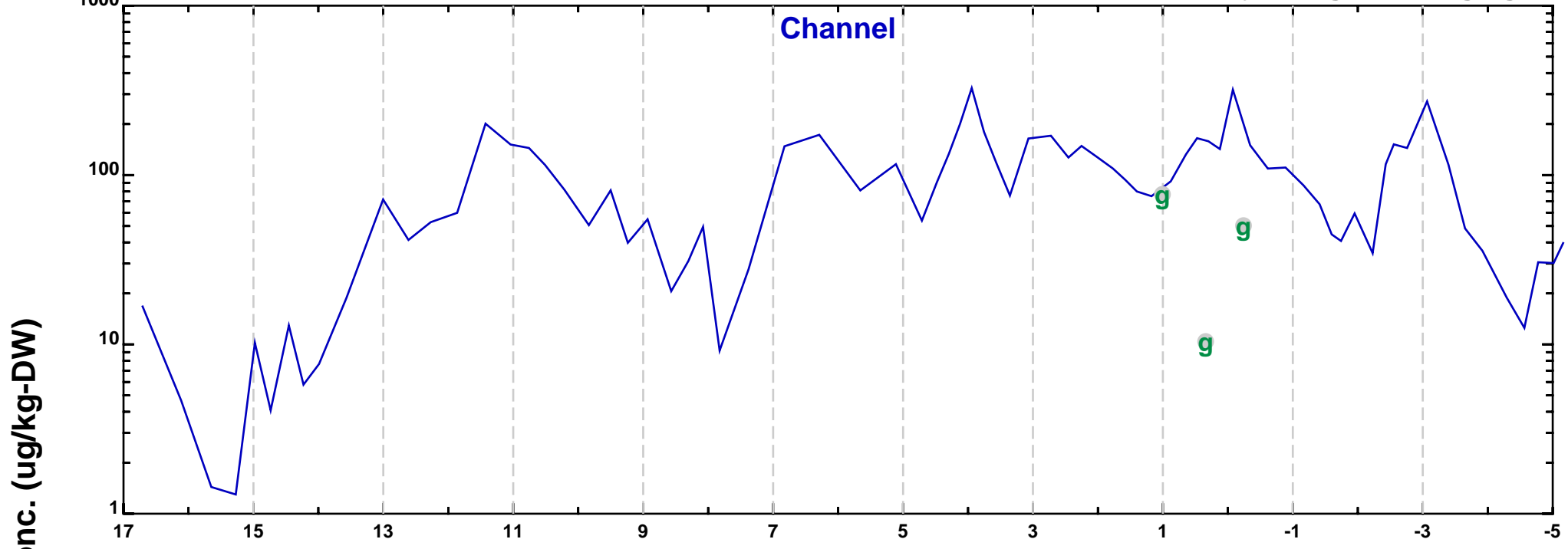
East Newark Bay shoal



River Mile

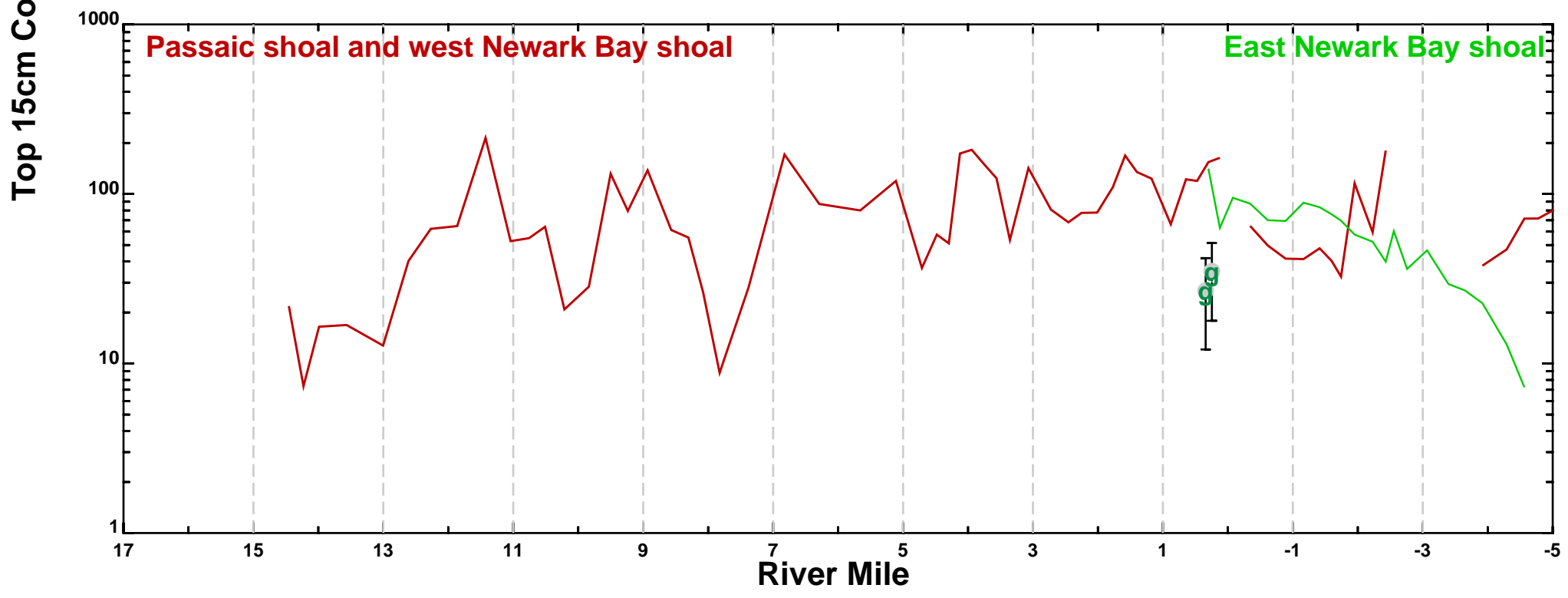
Year =2006.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

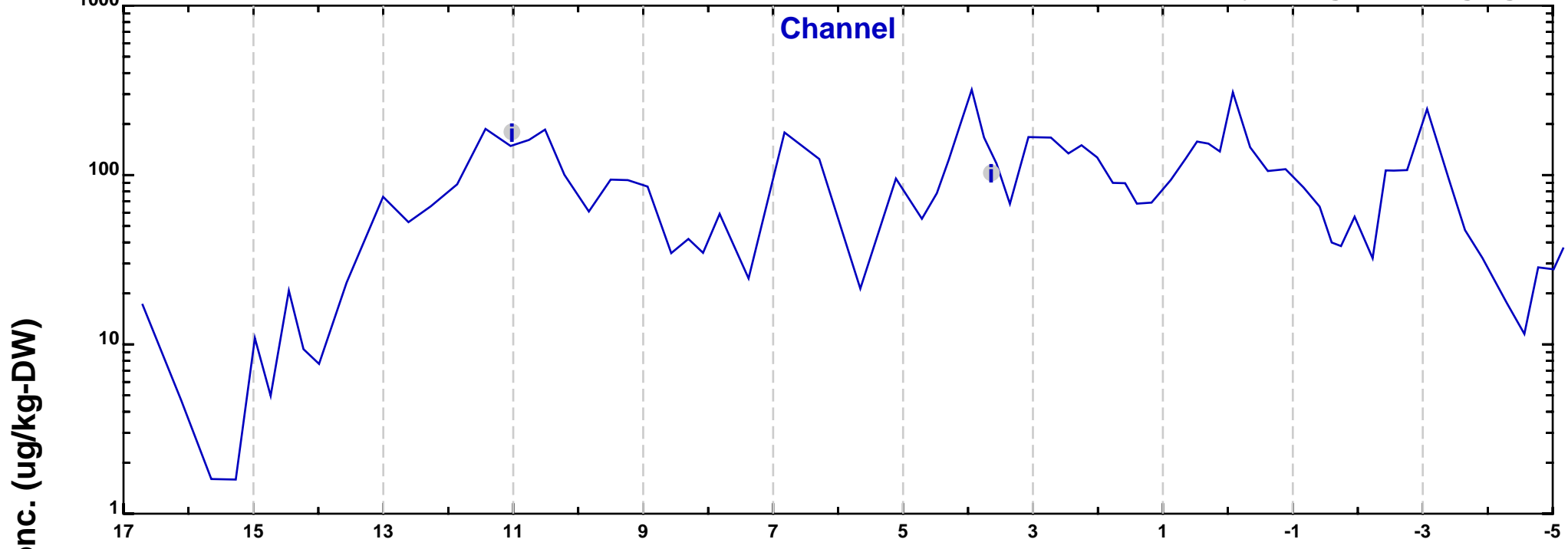
East Newark Bay shoal



River Mile

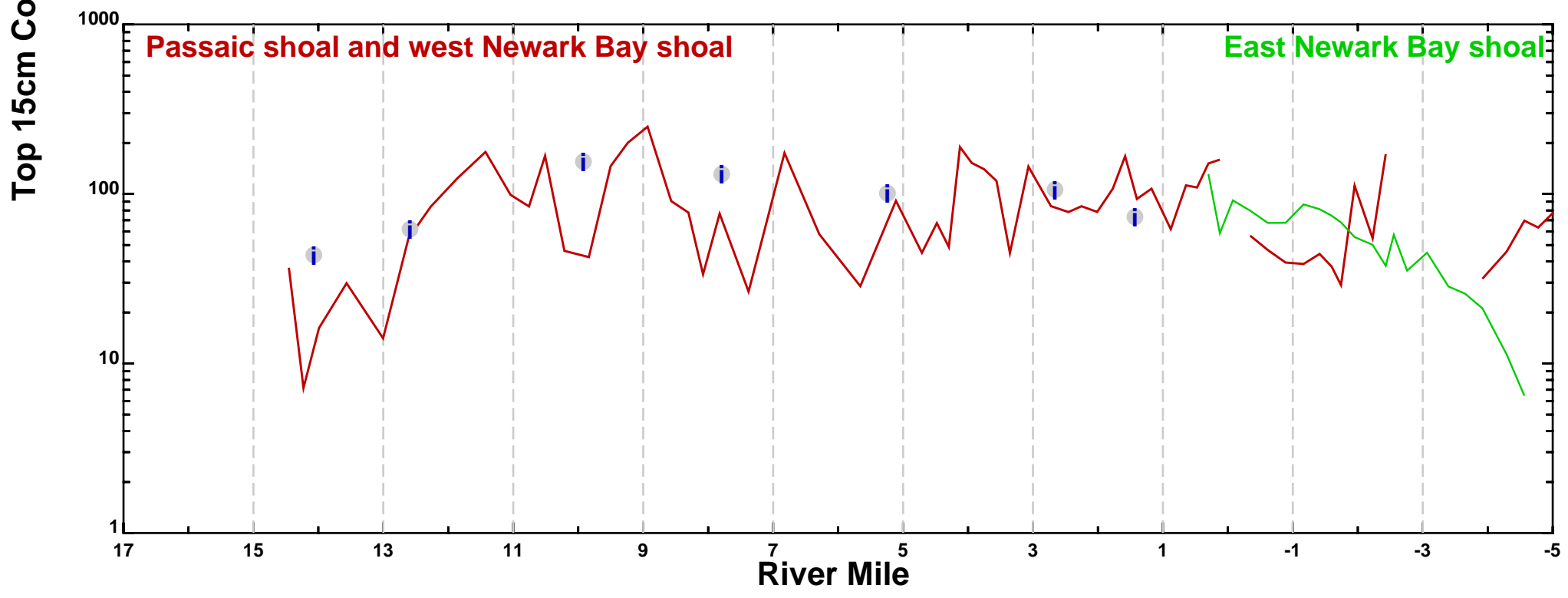
Year =2007.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

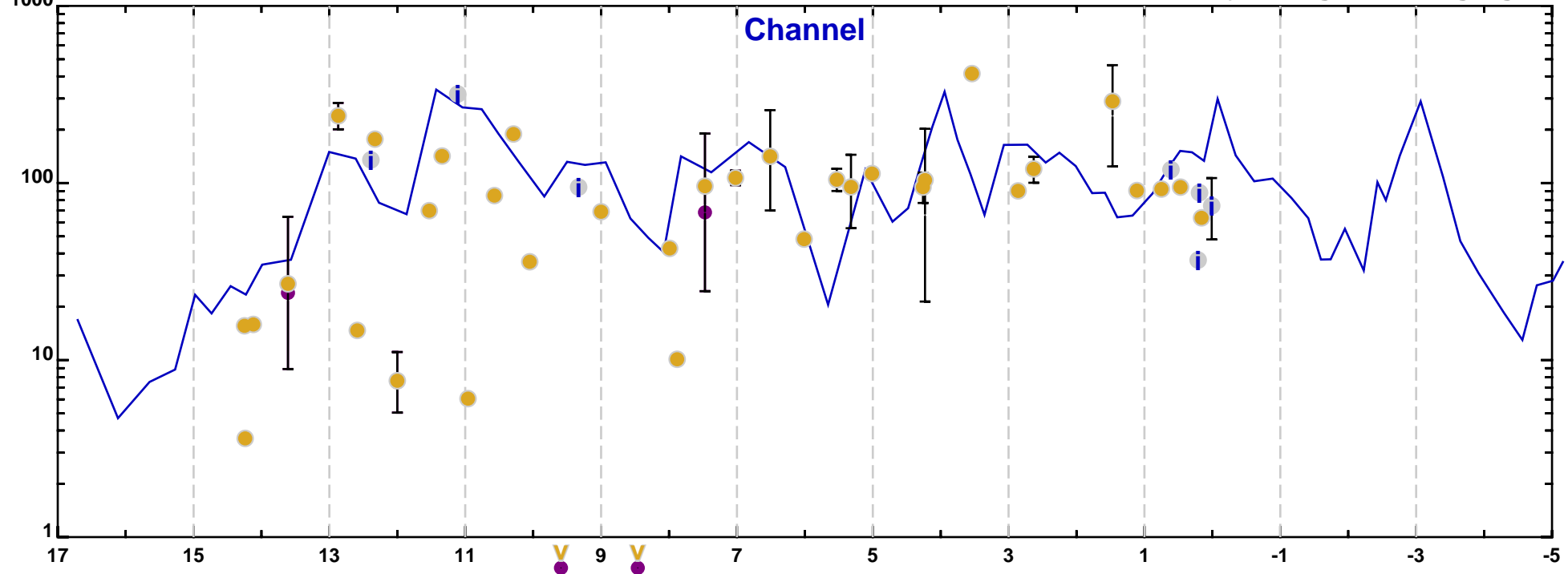


Year =2008.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)

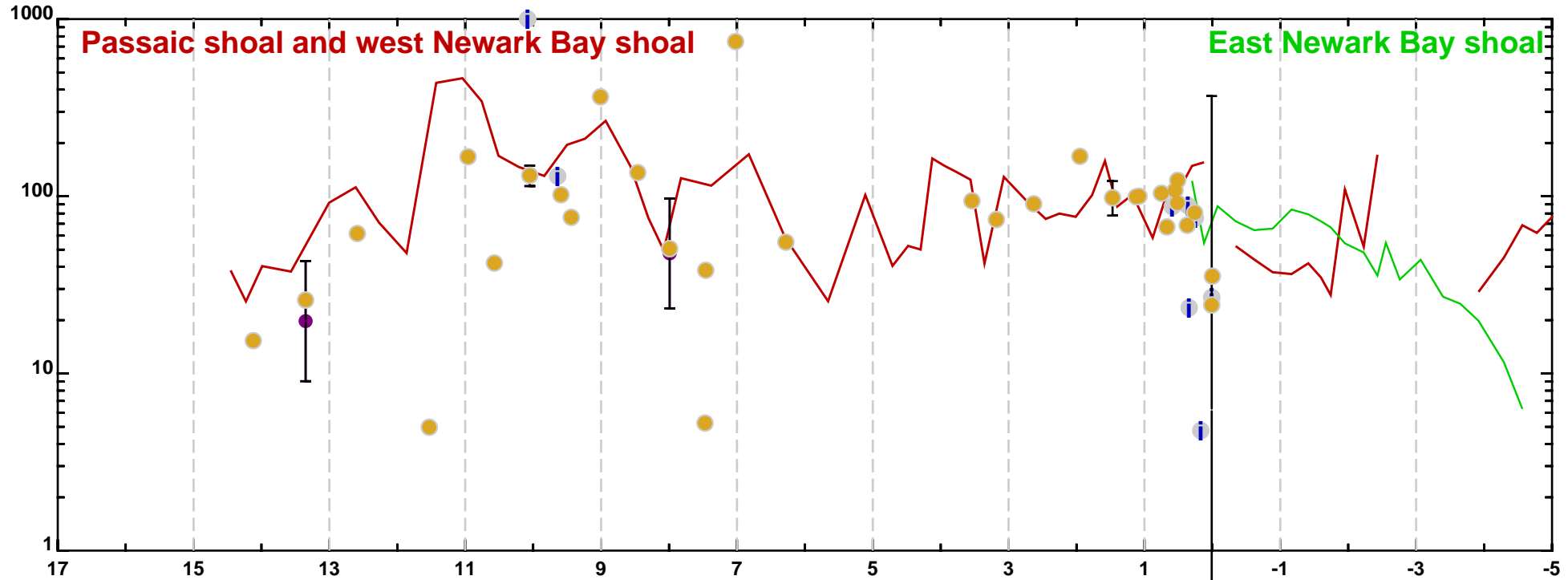
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



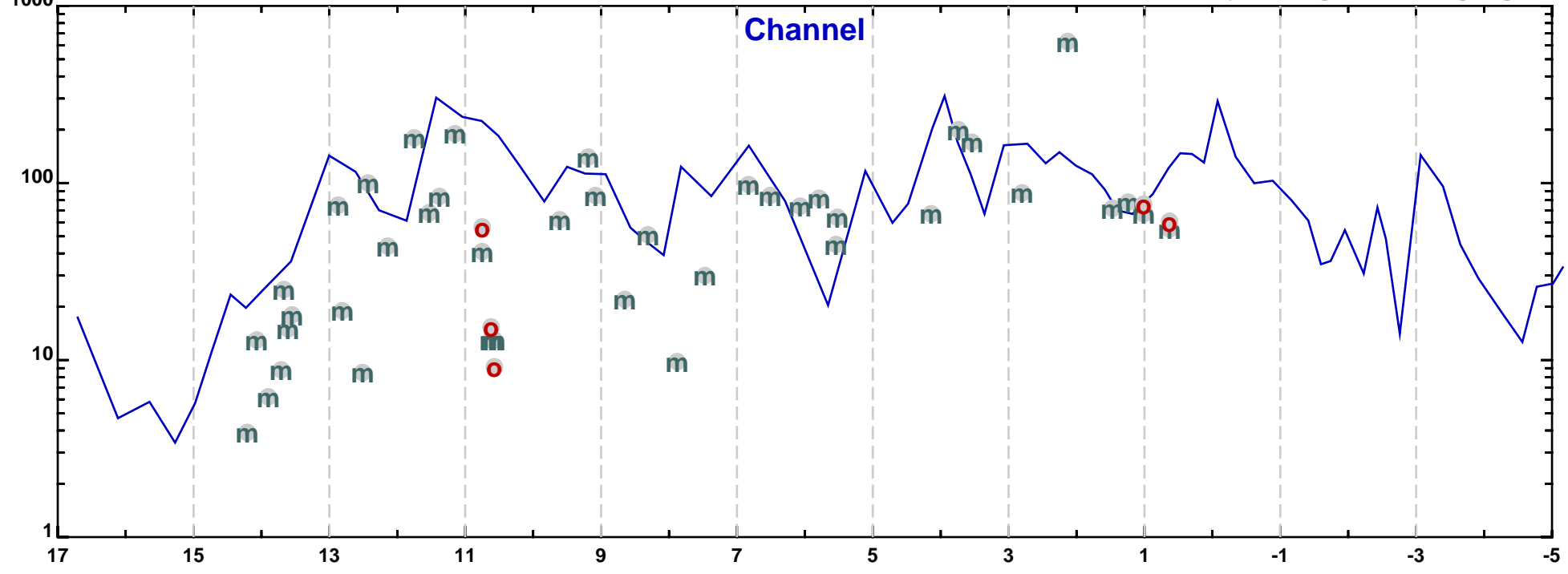
River Mile

Year =2009.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)

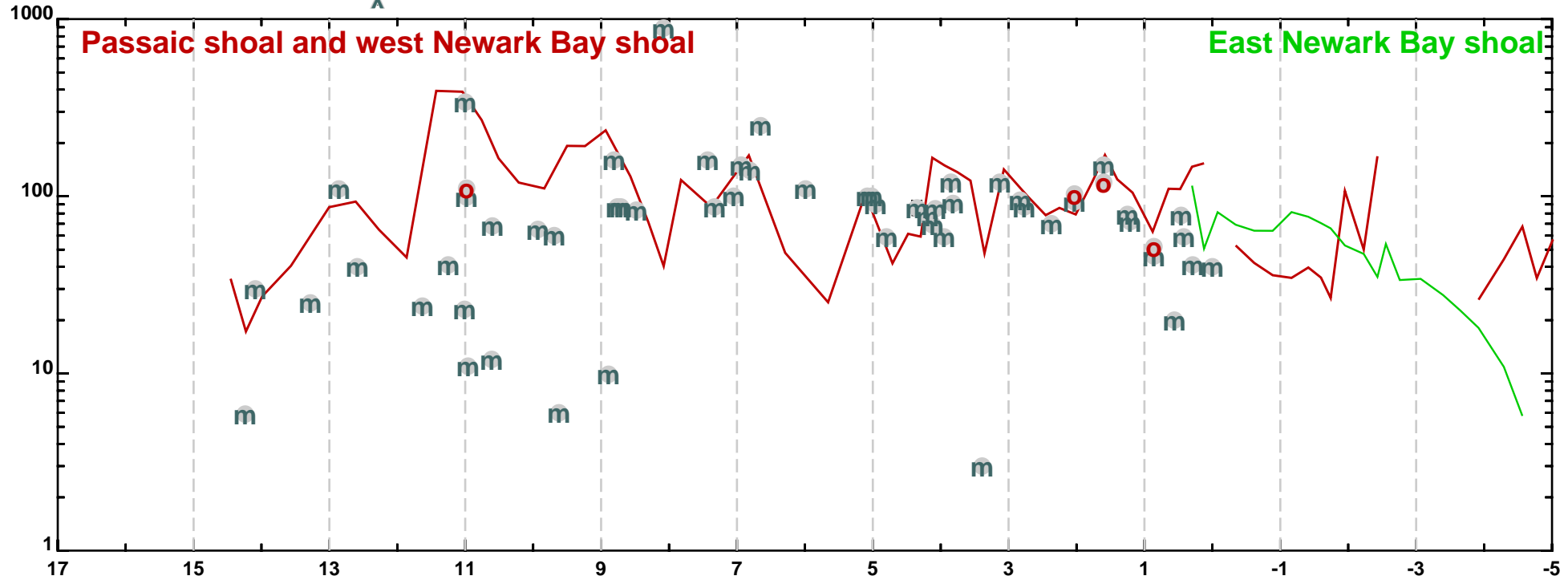
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

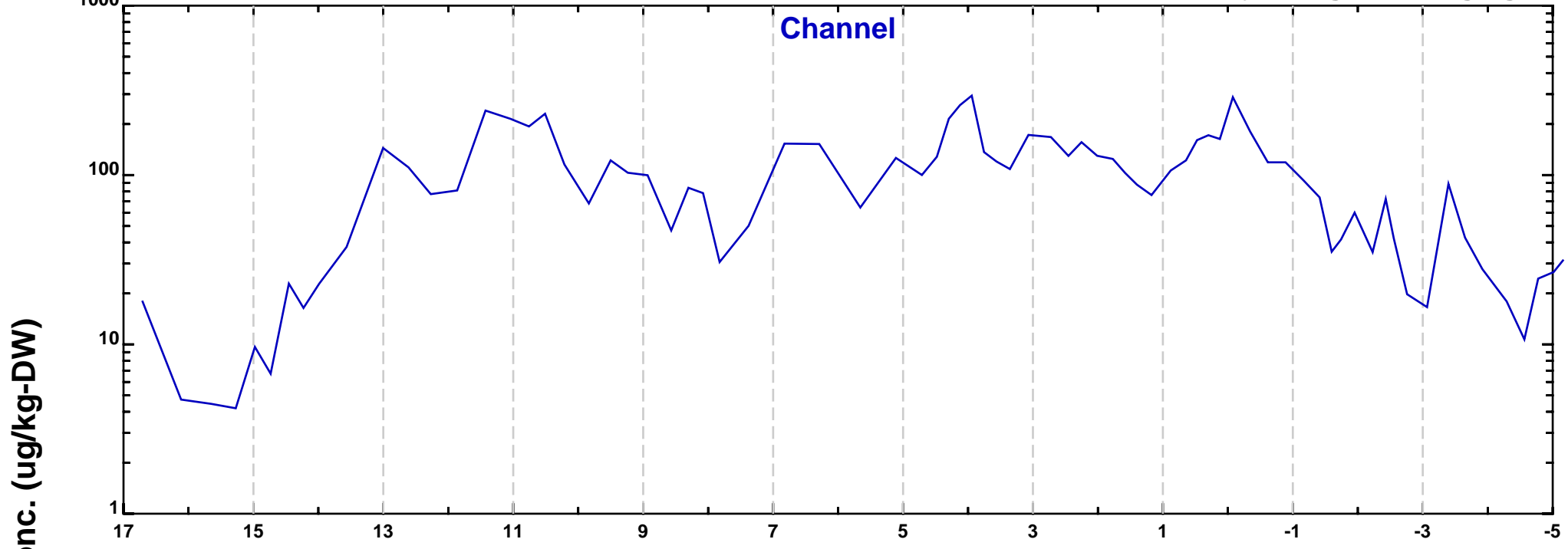
East Newark Bay shoal



River Mile

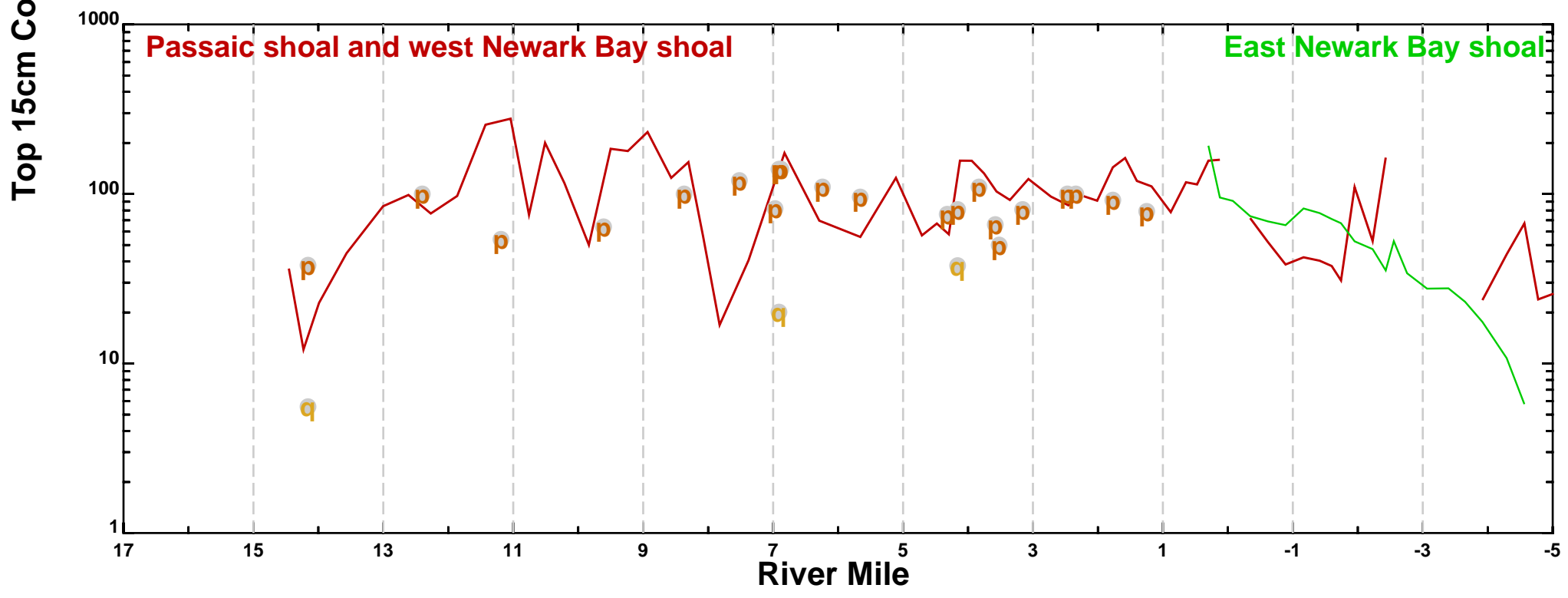
Year =2010.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

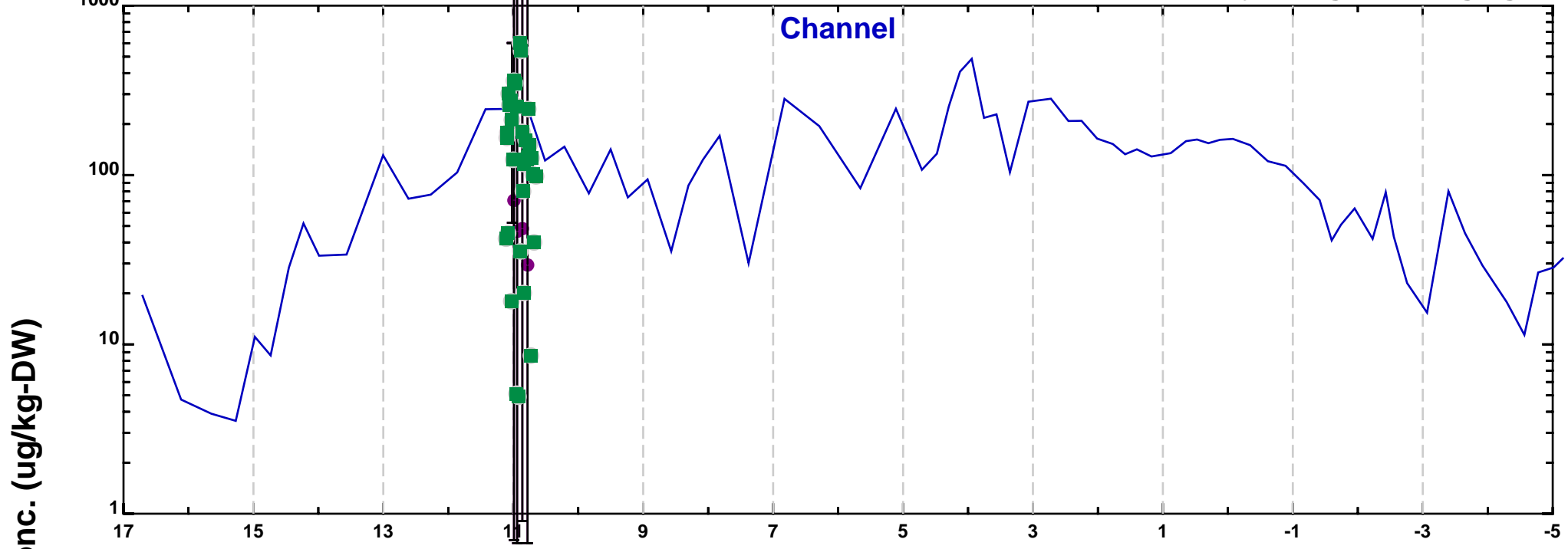
East Newark Bay shoal



River Mile

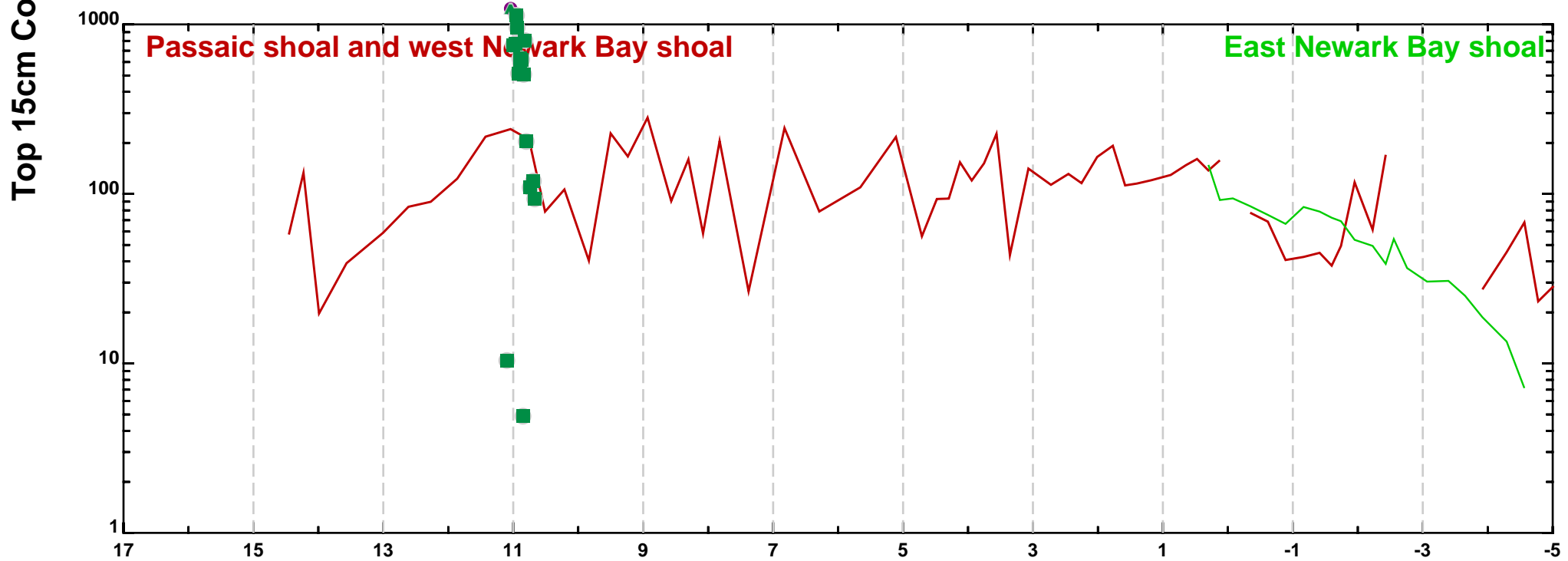
Year =2011.0

PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

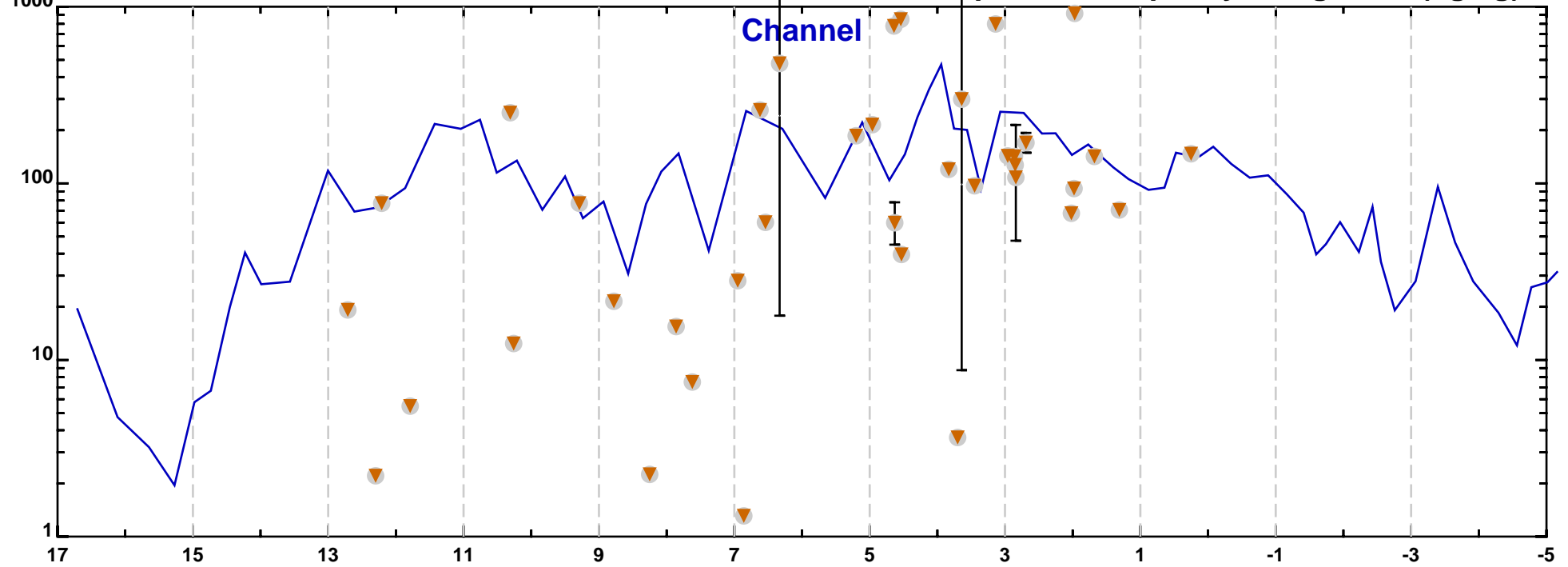


River Mile

Year =2012.0

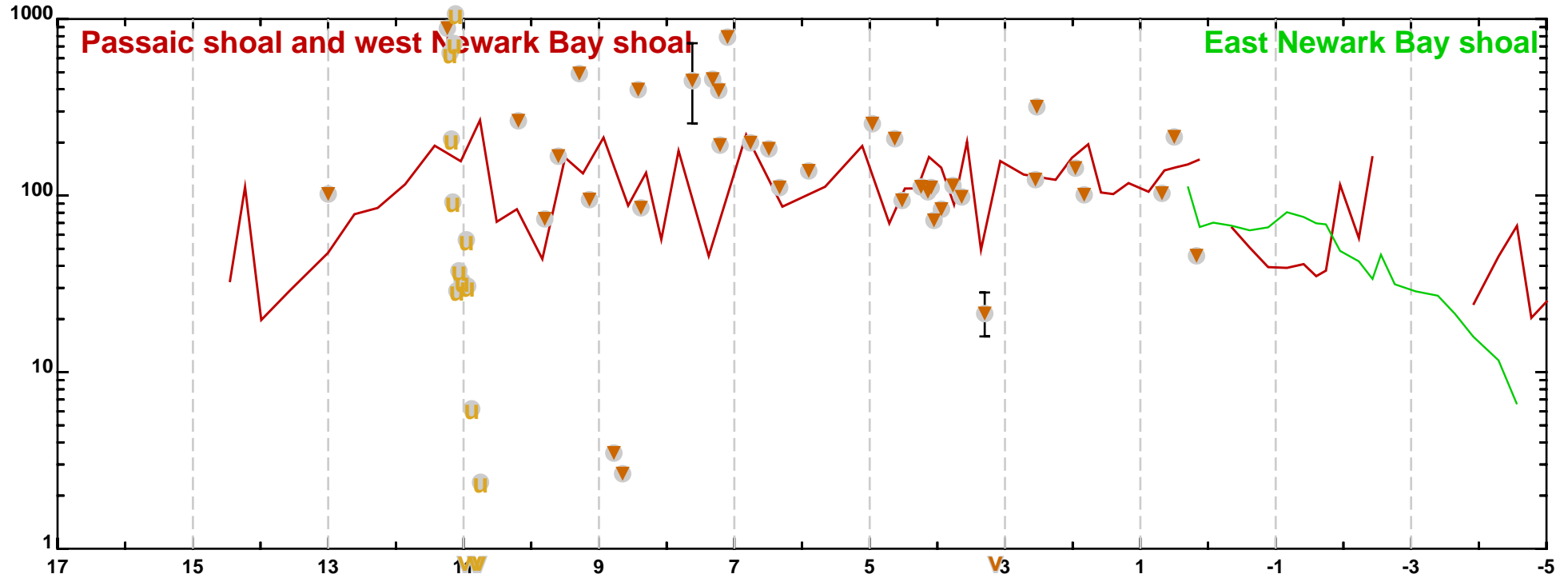
PCBs, sum of heptachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

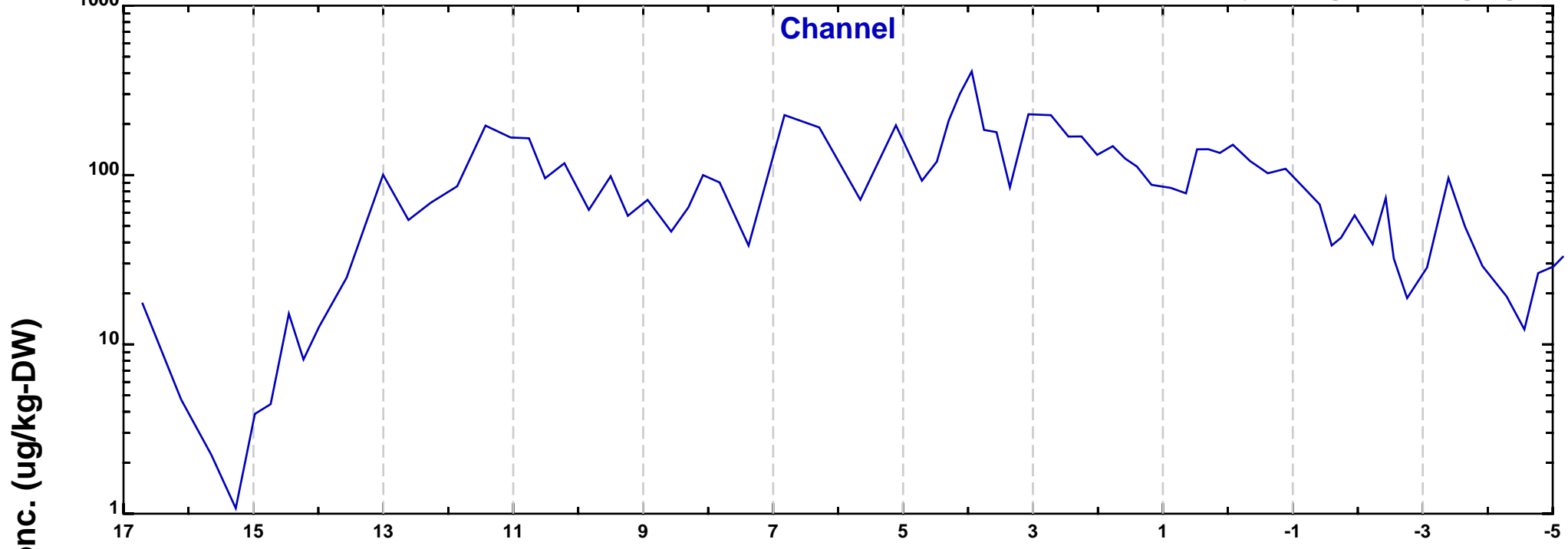
East Newark Bay shoal



River Mile

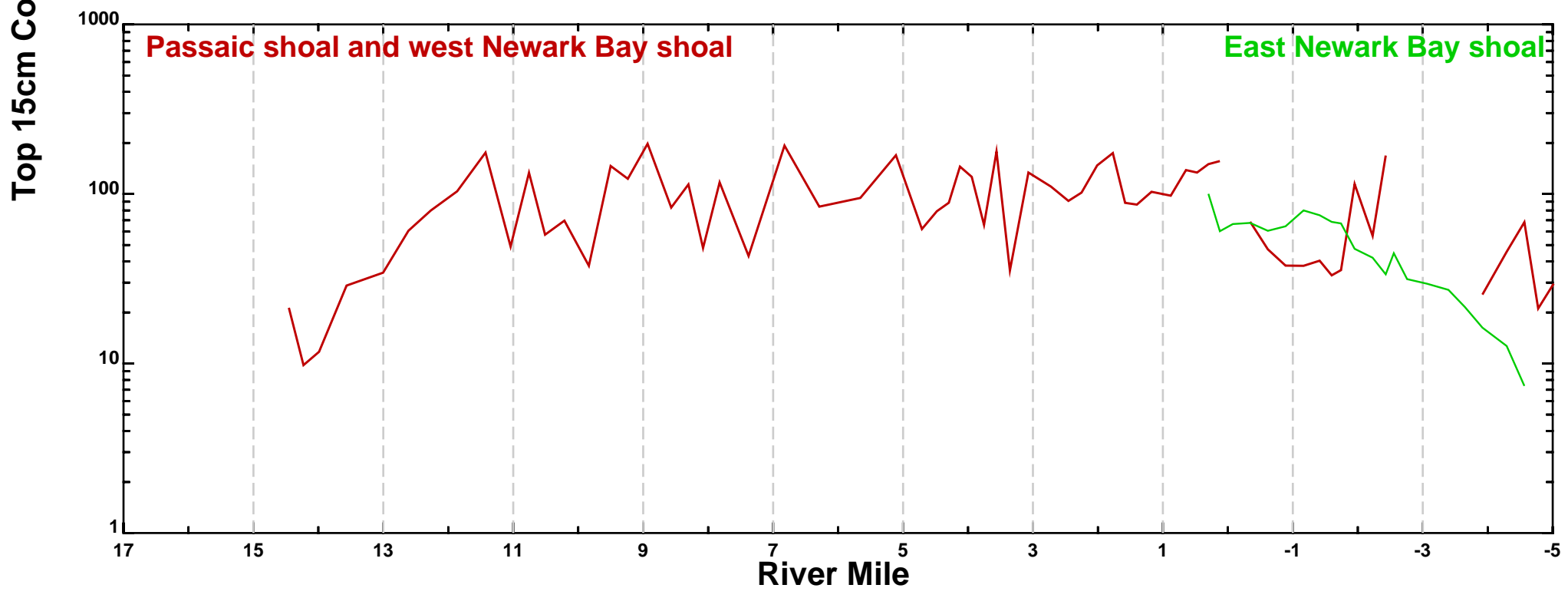
Year =2013.0

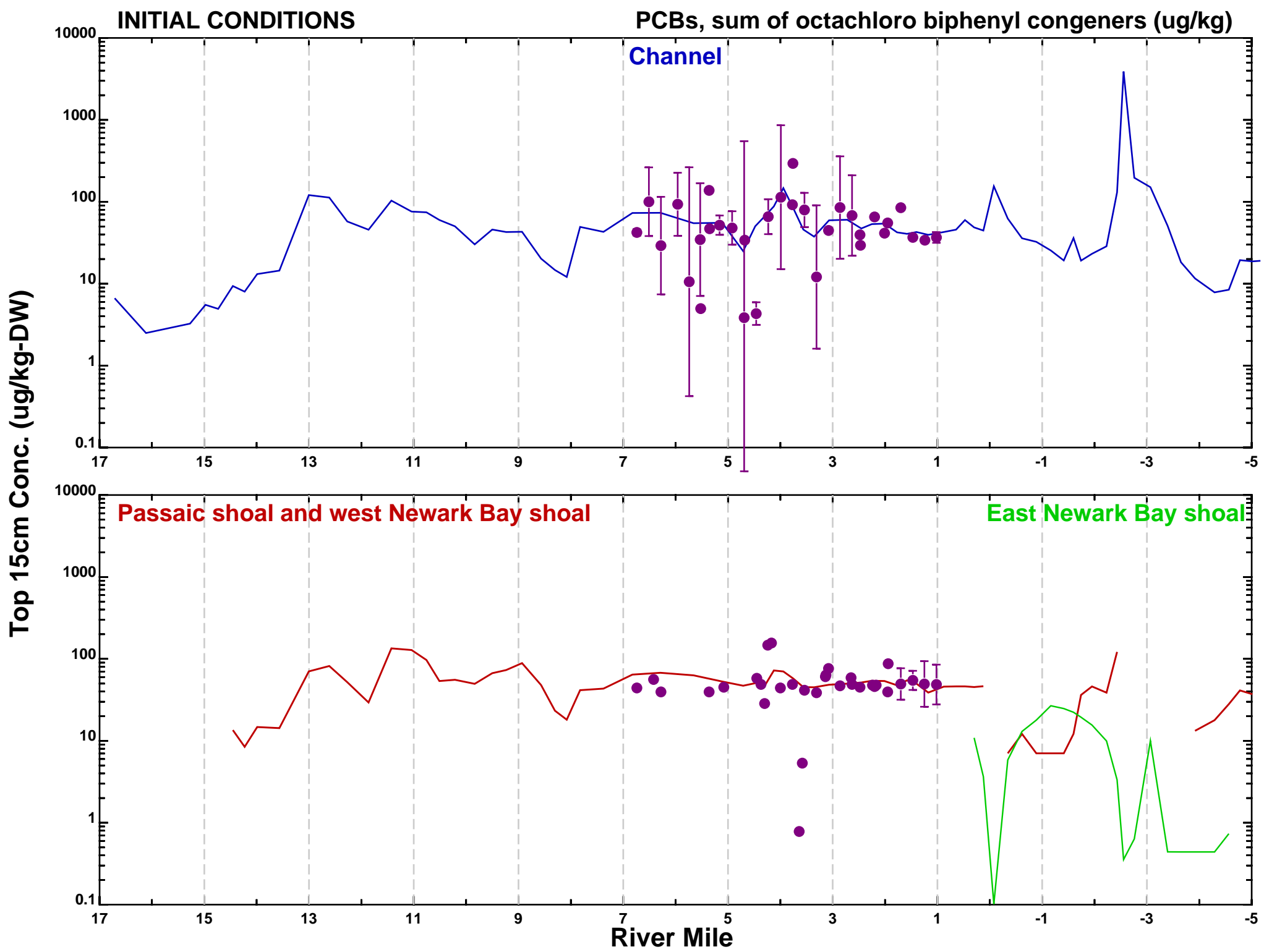
PCBs, sum of heptachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

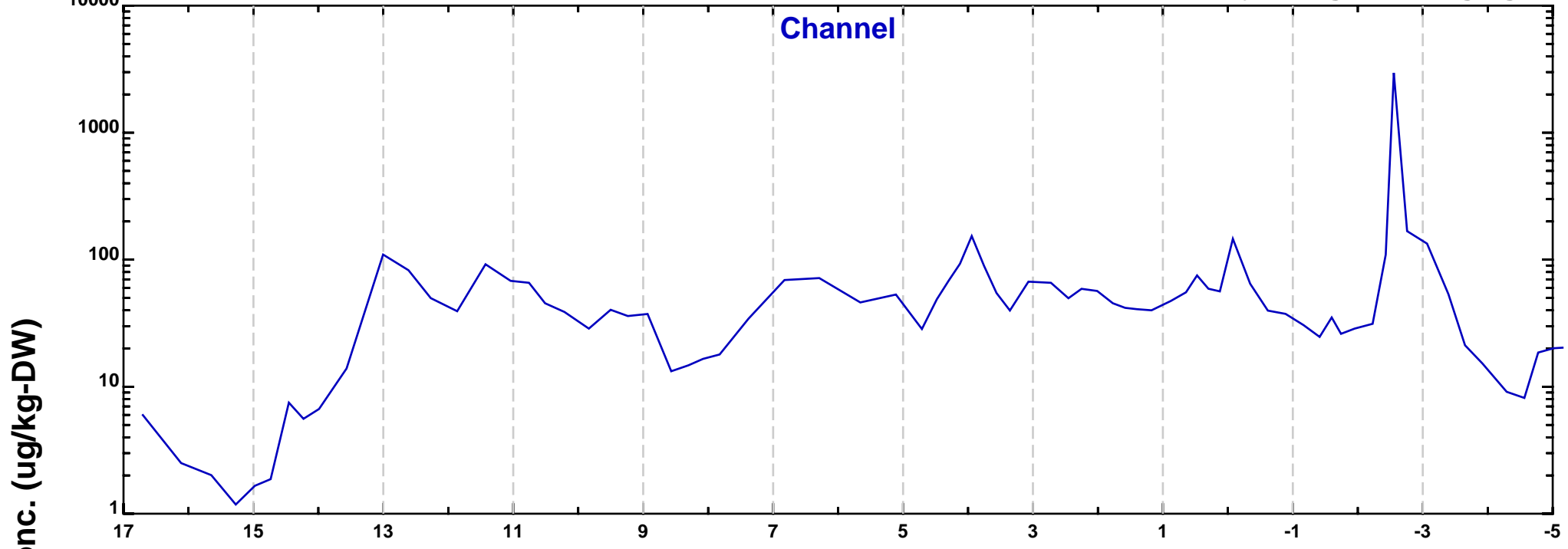
East Newark Bay shoal





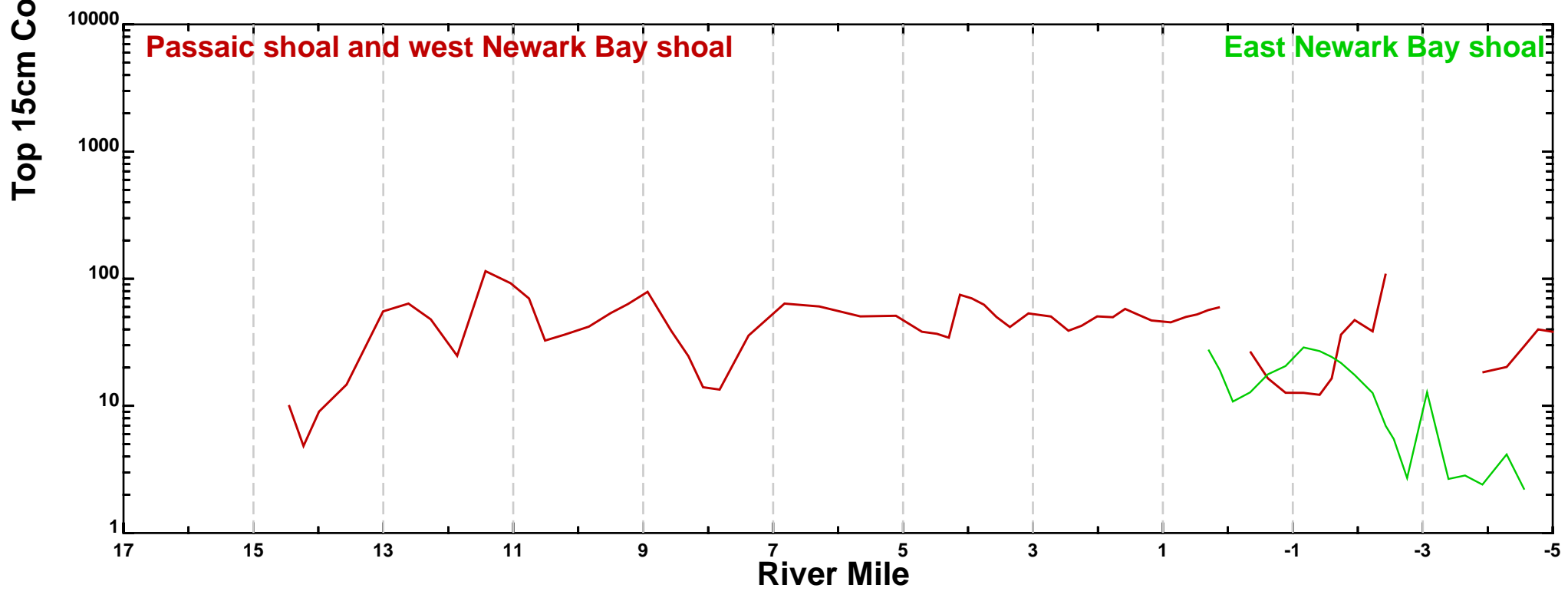
Year = 1996.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

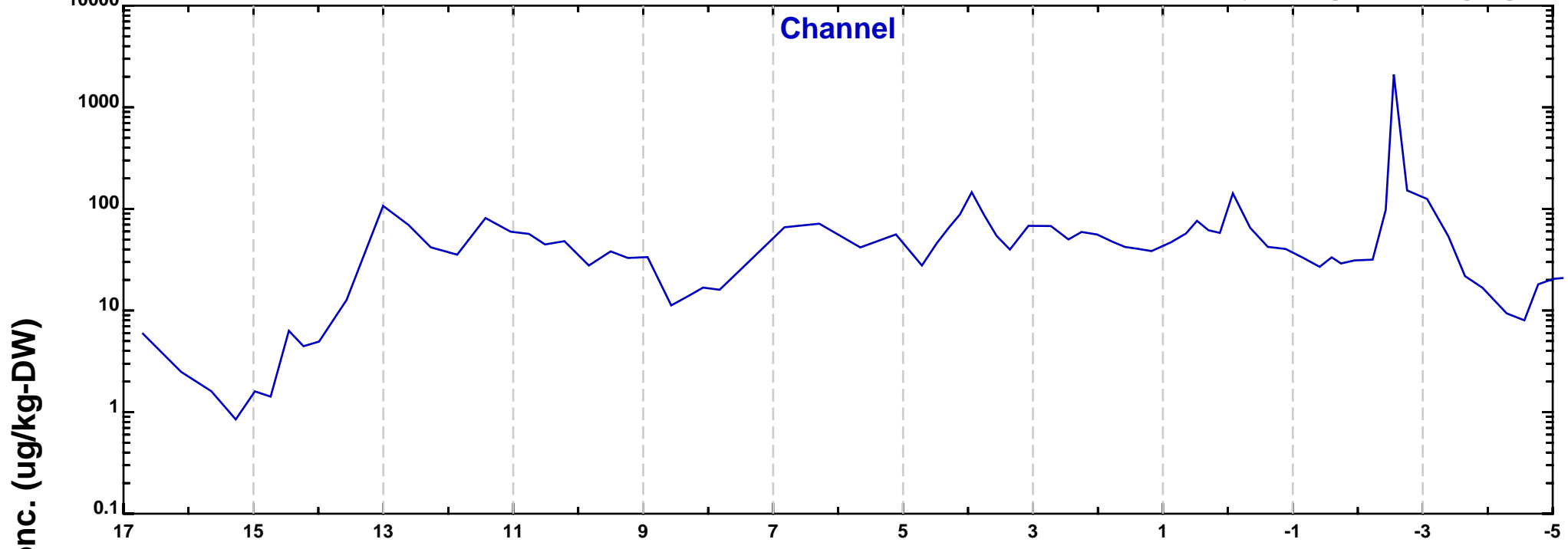
East Newark Bay shoal





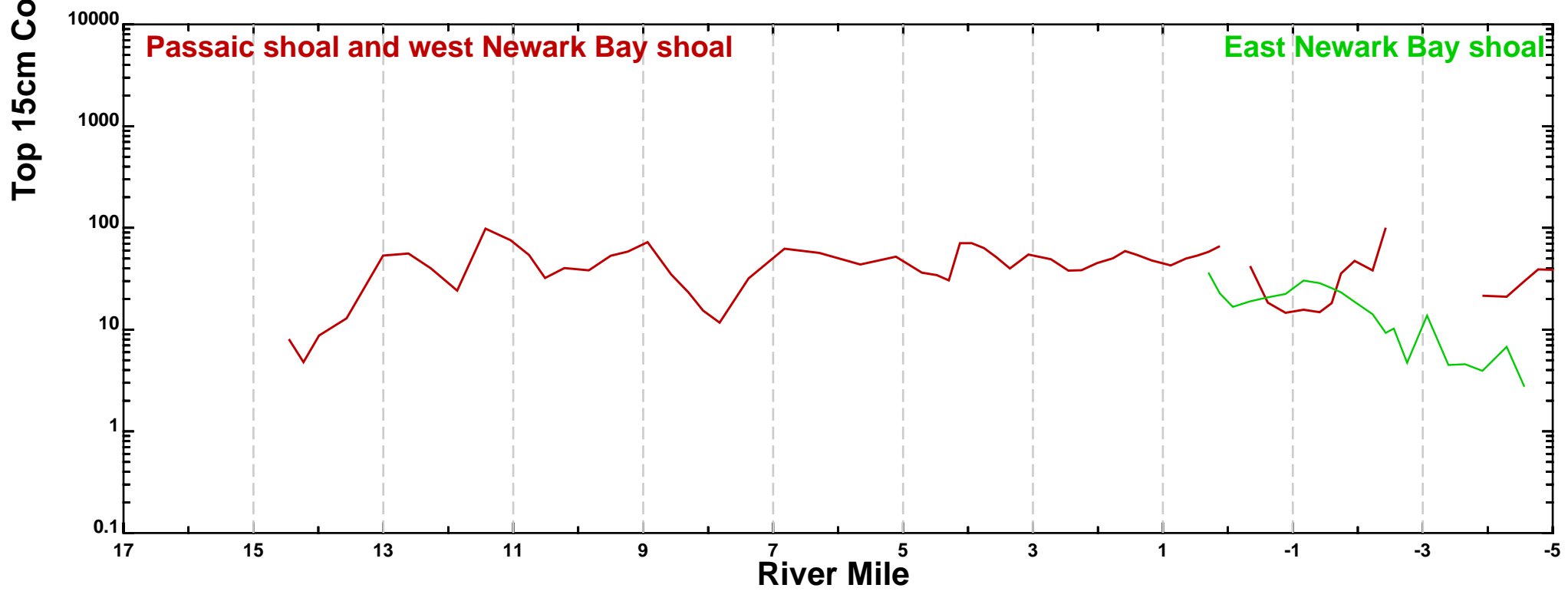
Year =1997.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



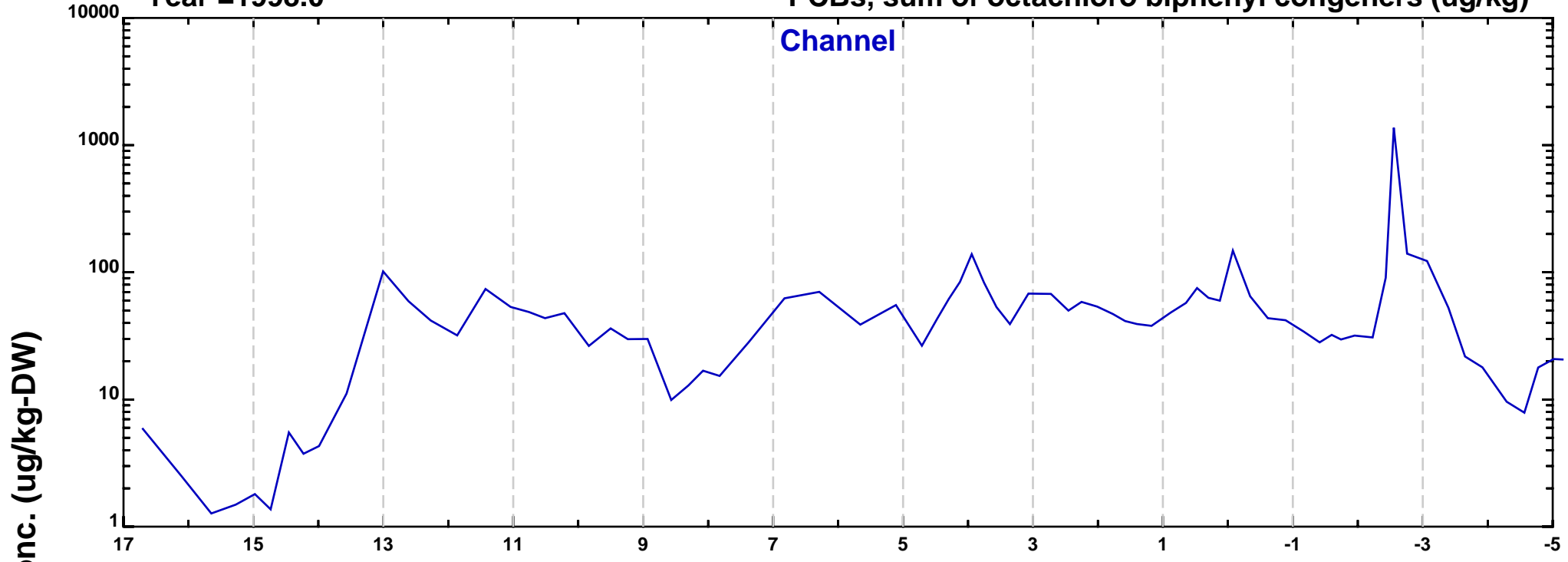
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



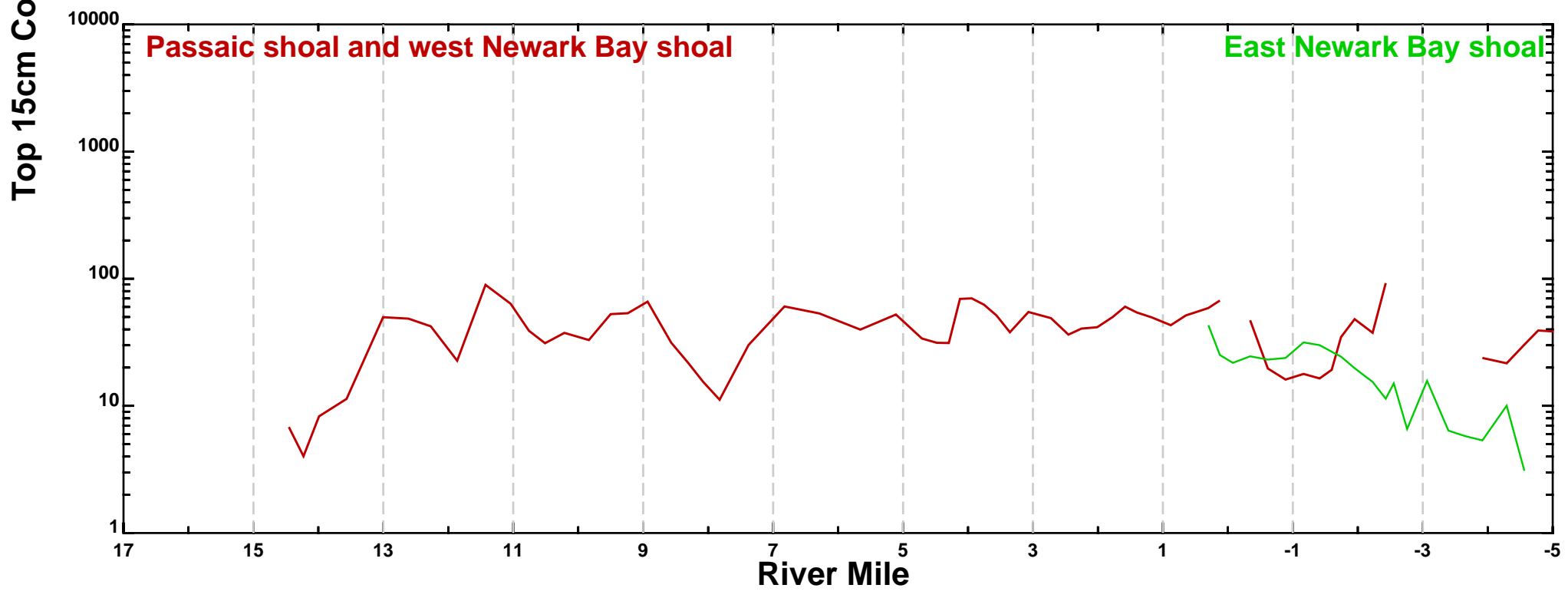
Year = 1998.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

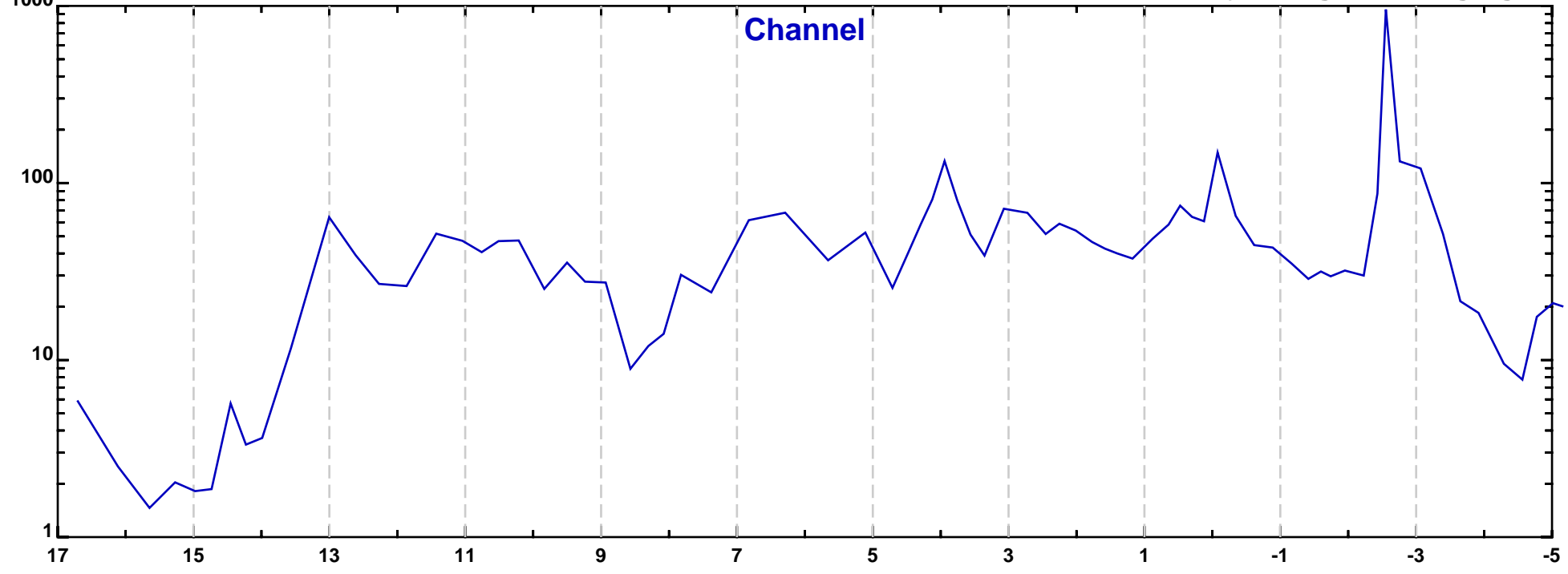


River Mile

Year =1999.0

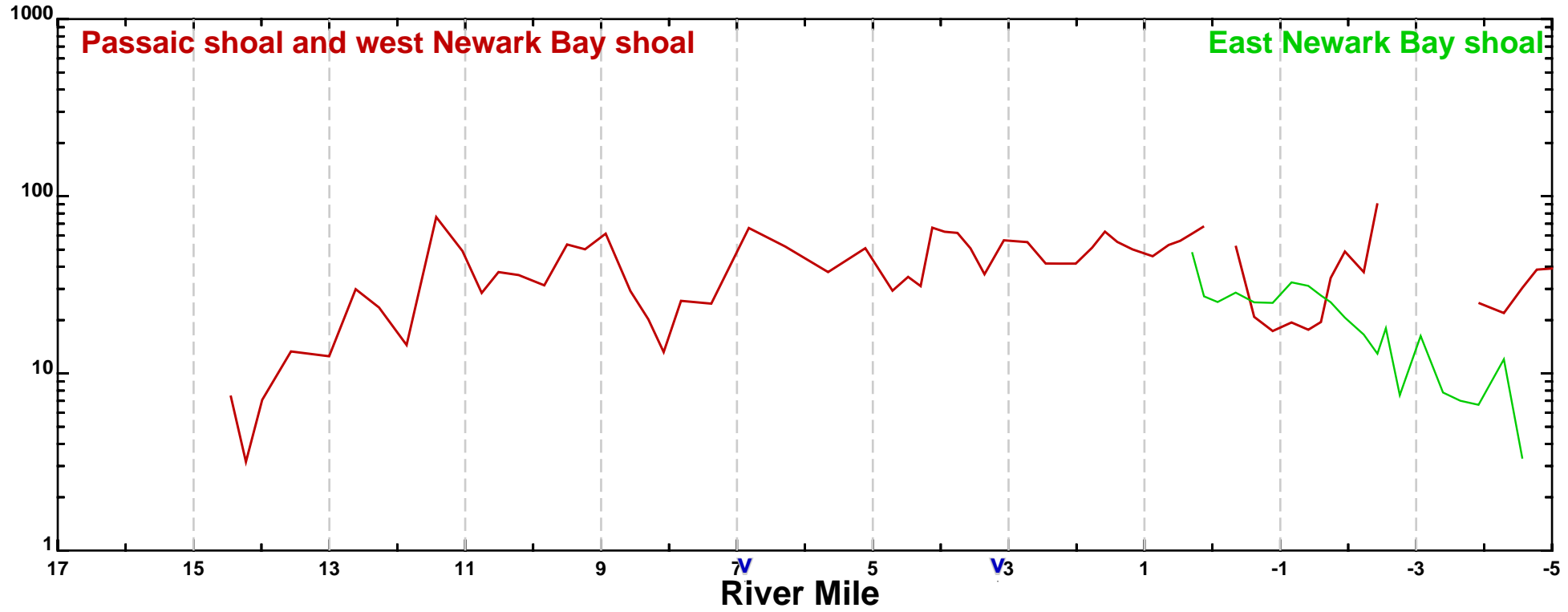
PCBs, sum of octachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

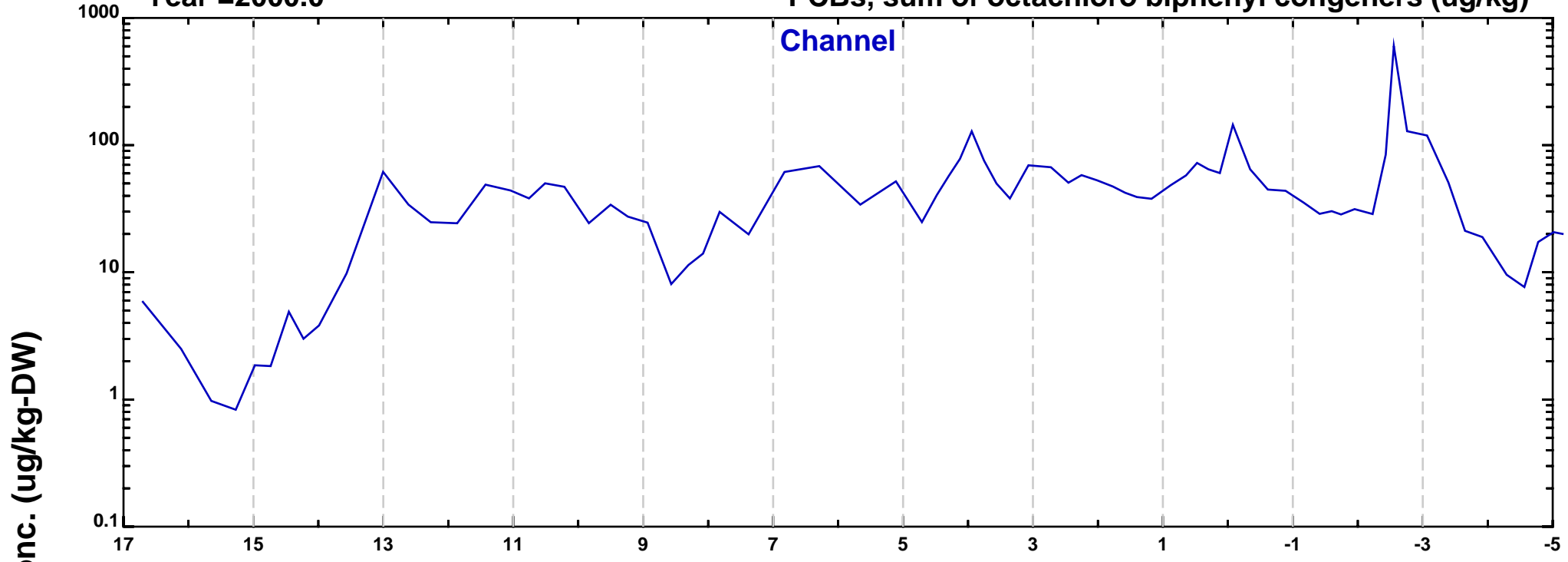
East Newark Bay shoal



River Mile

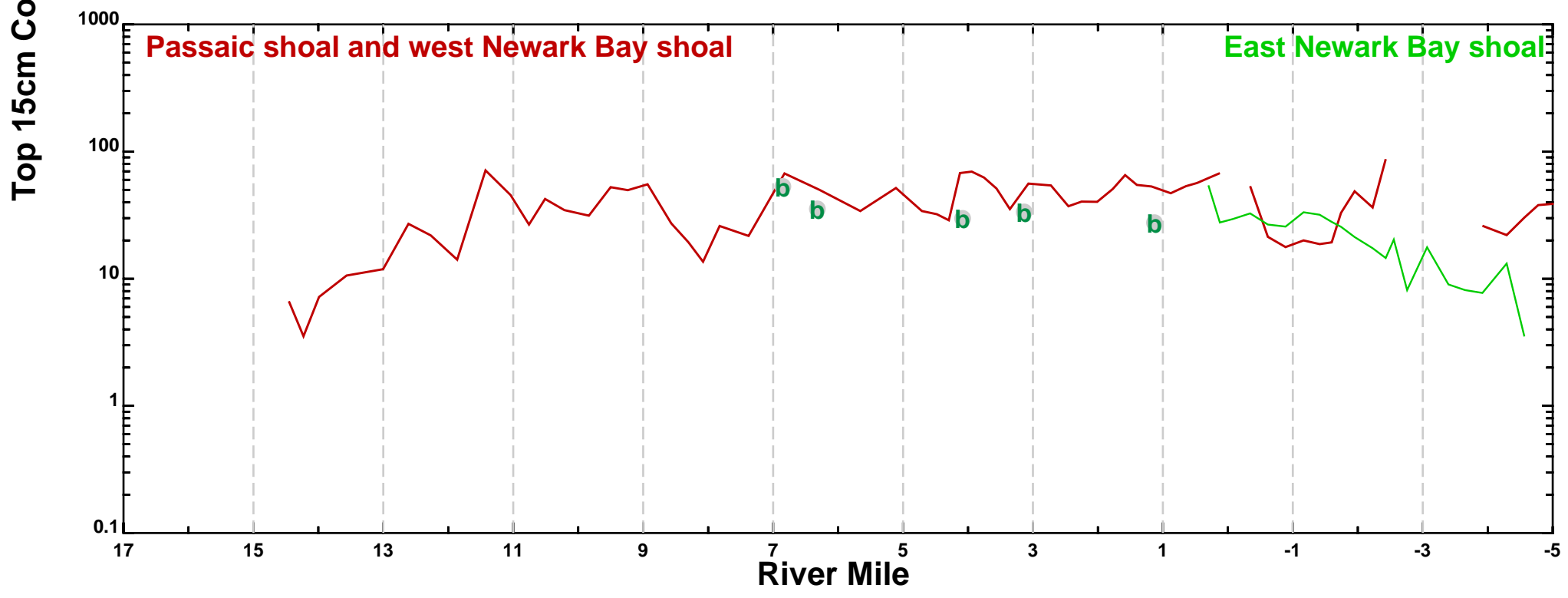
Year =2000.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

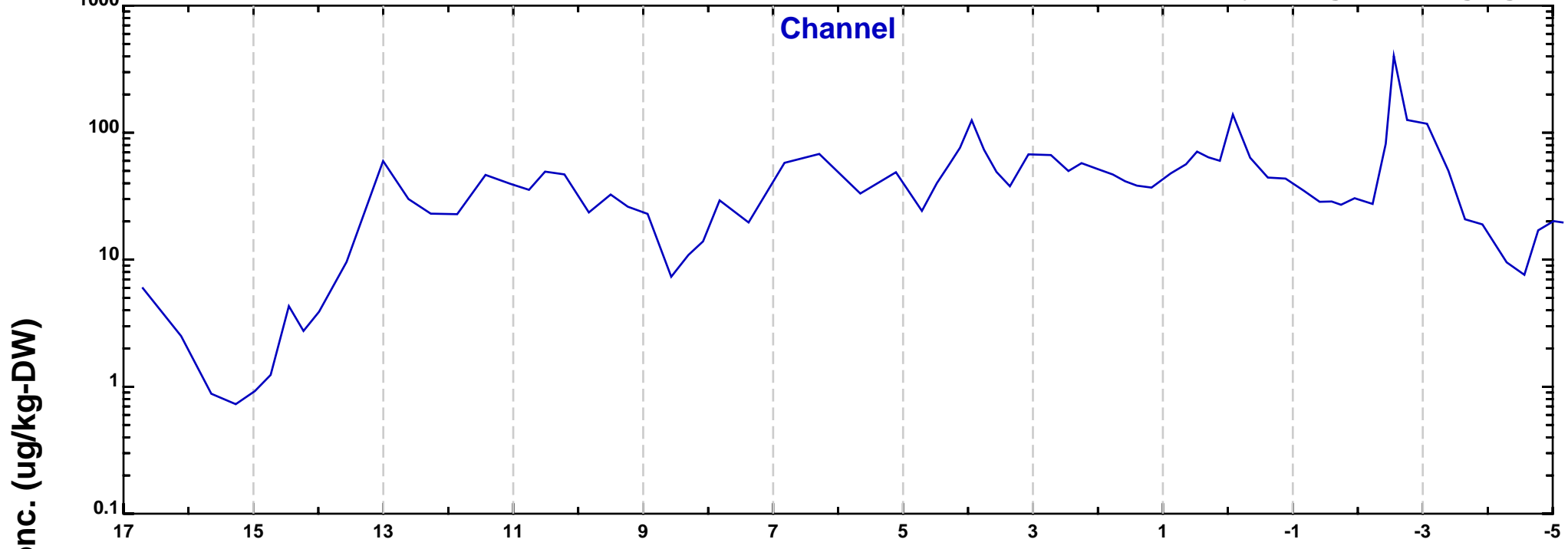
East Newark Bay shoal



River Mile

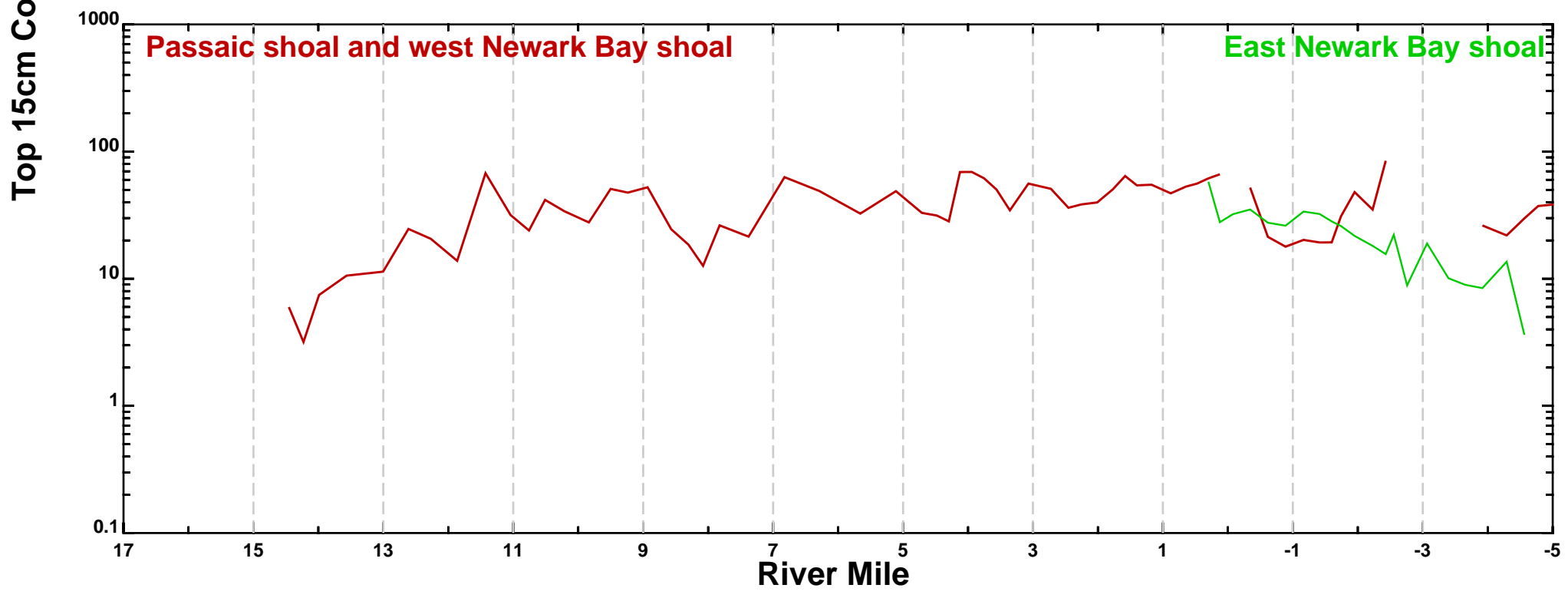
Year =2001.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



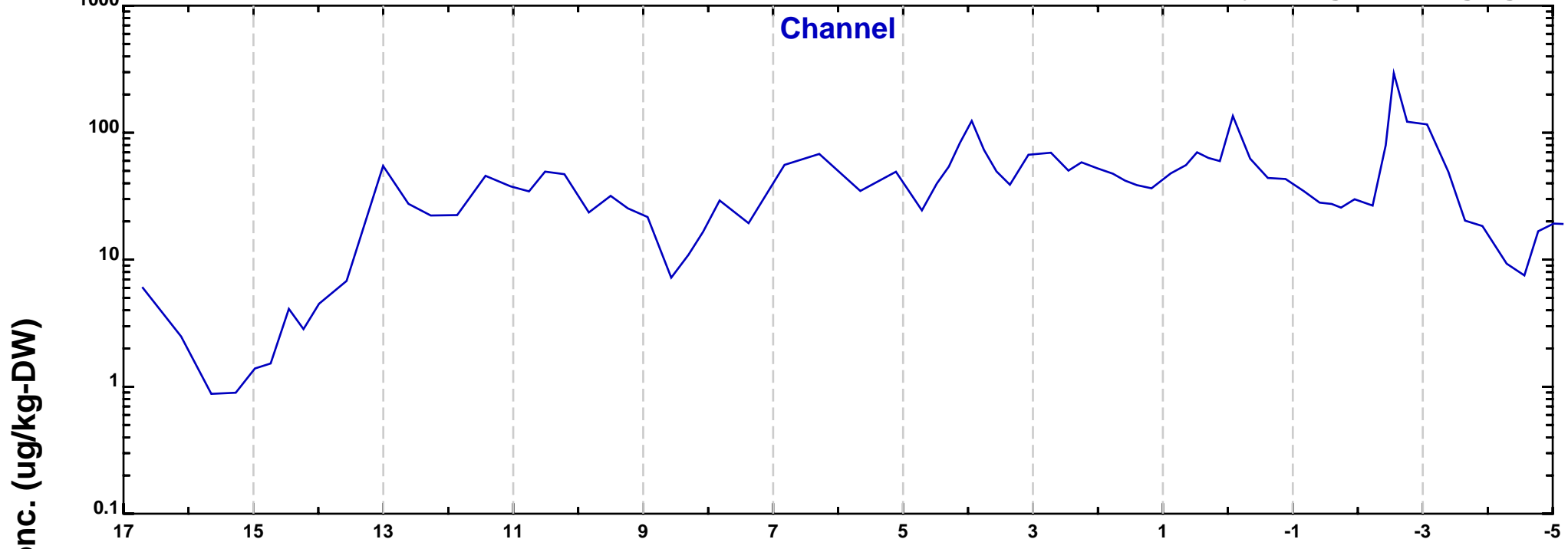
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2002.0

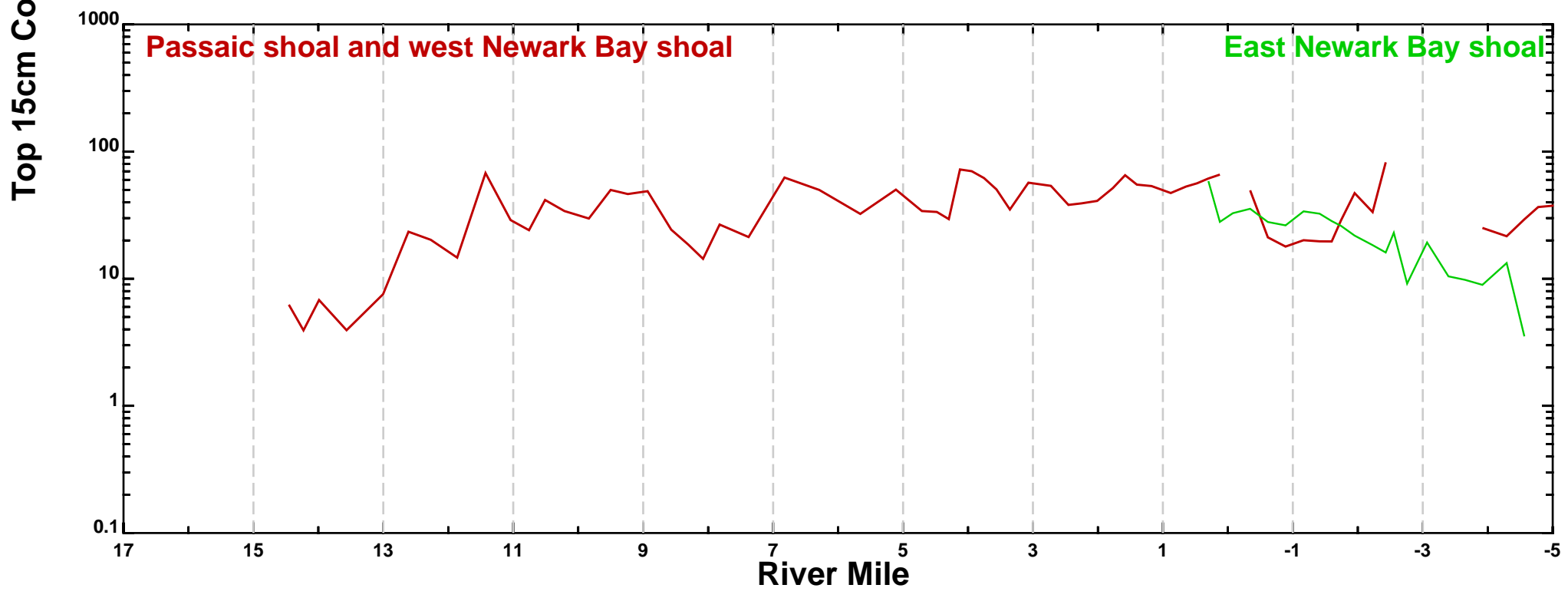
PCBs, sum of octachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

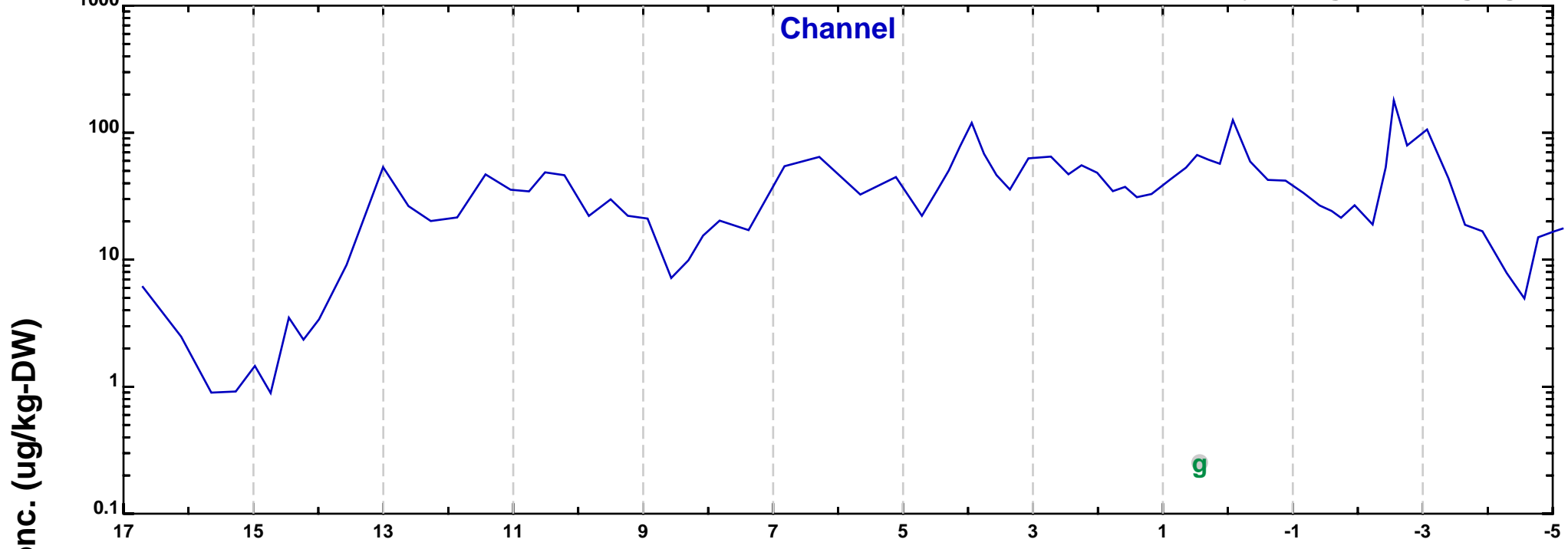
East Newark Bay shoal



River Mile

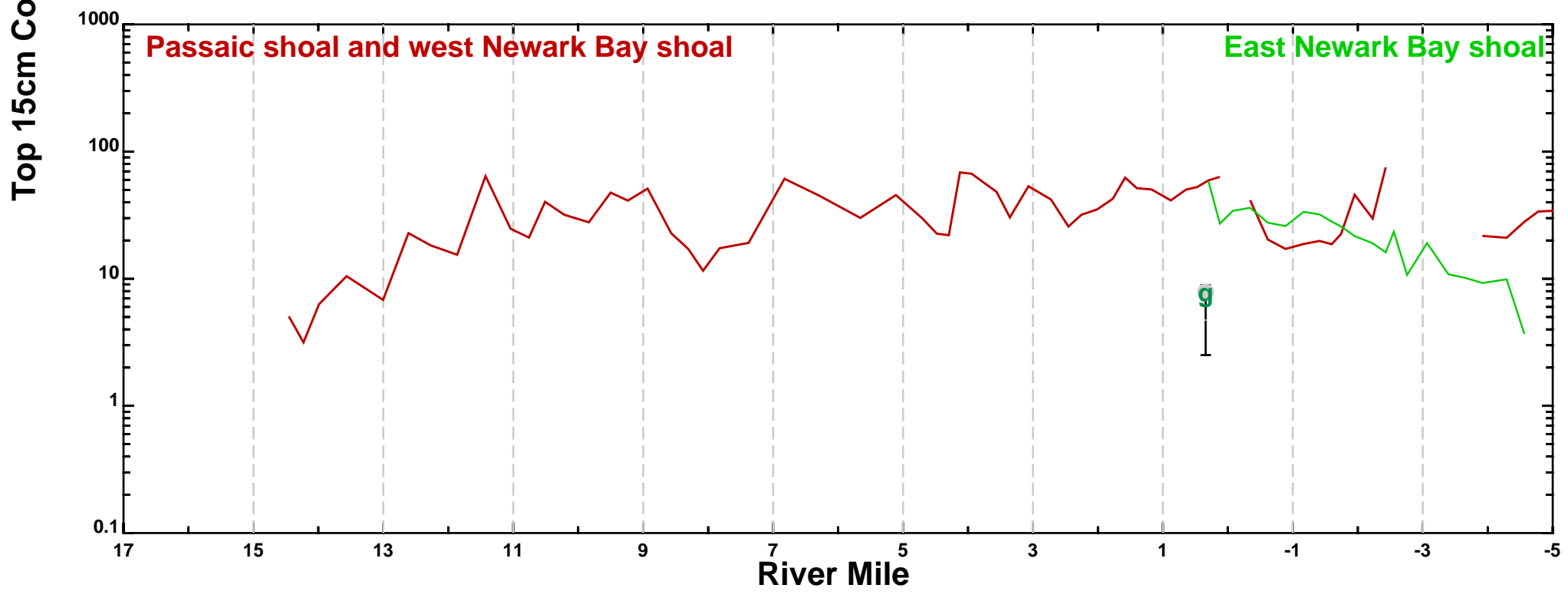
Year =2003.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

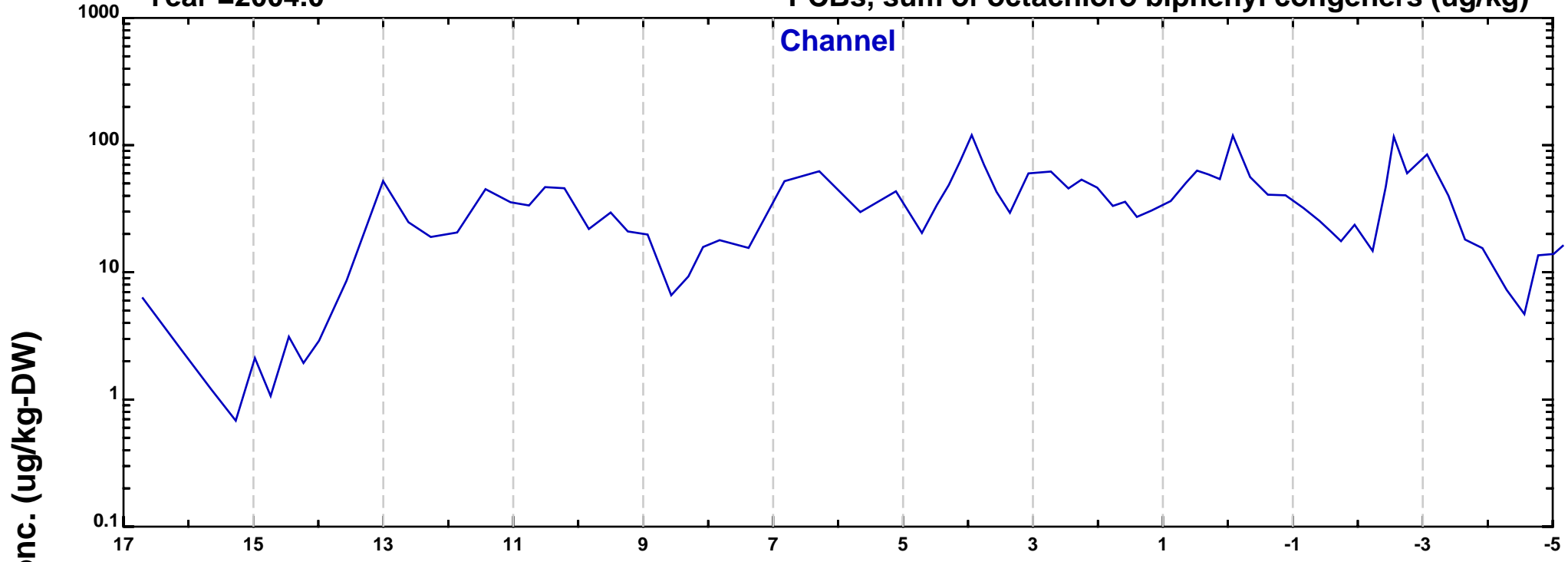
East Newark Bay shoal



River Mile

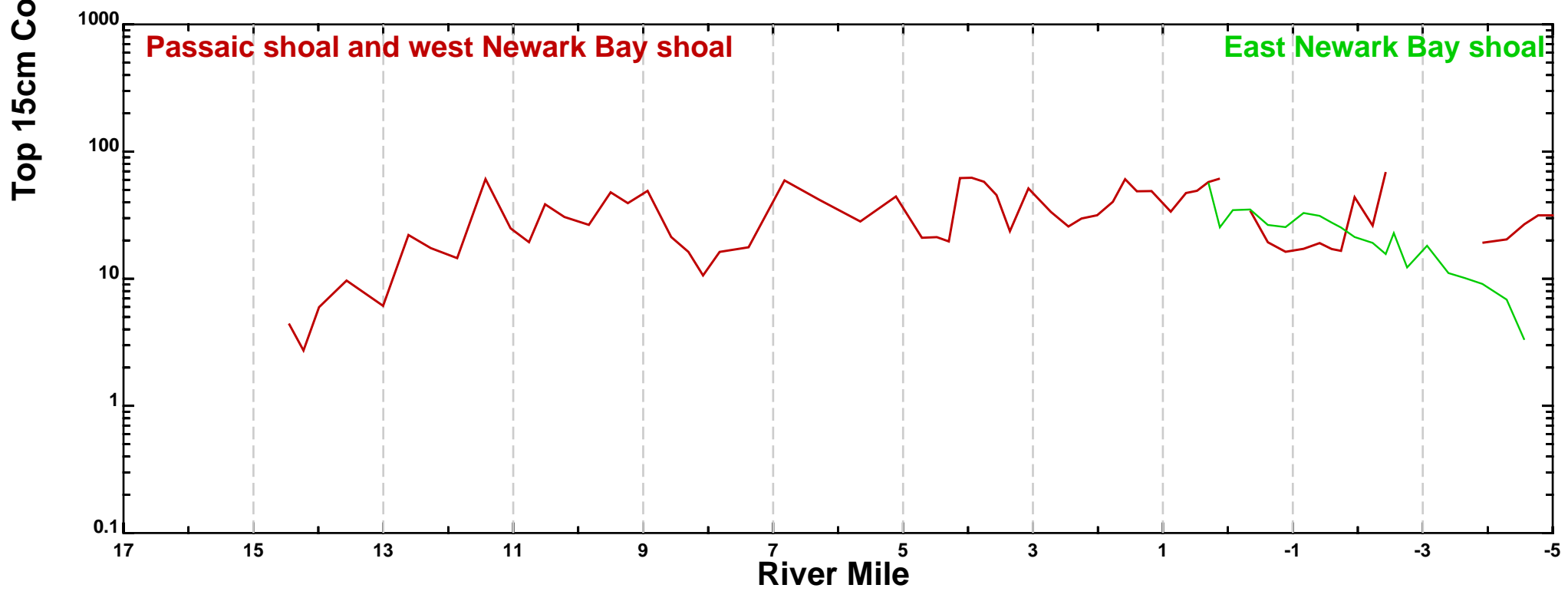
Year =2004.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

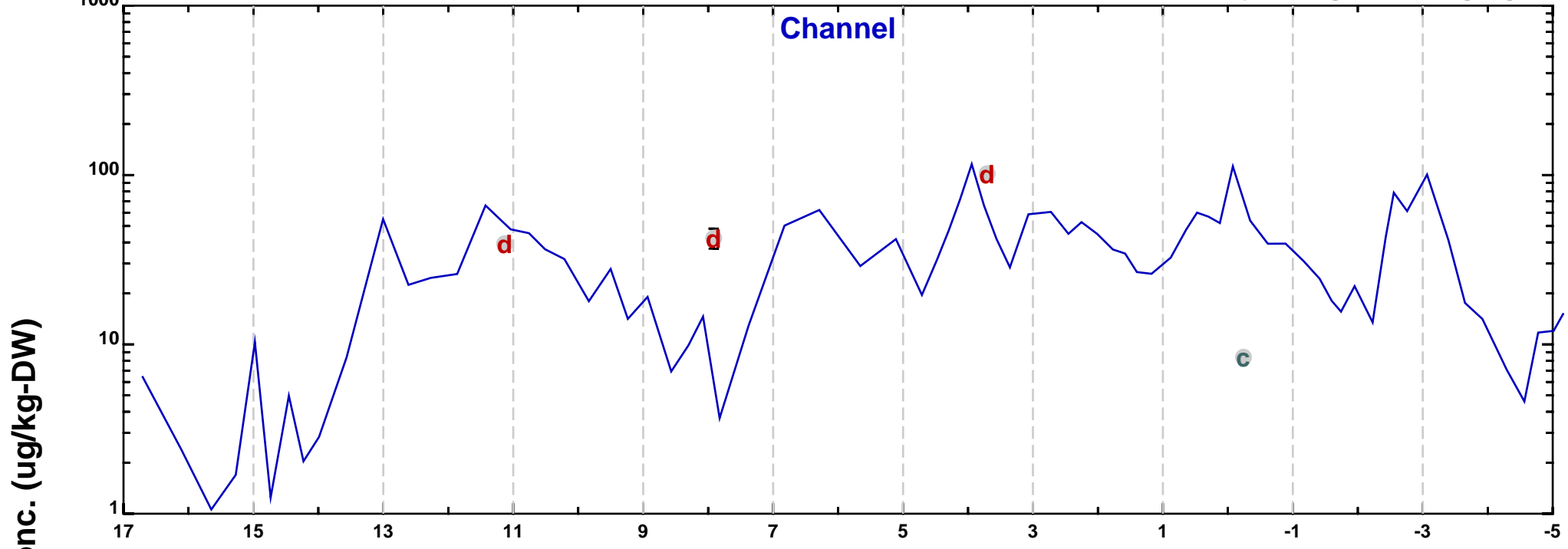
East Newark Bay shoal





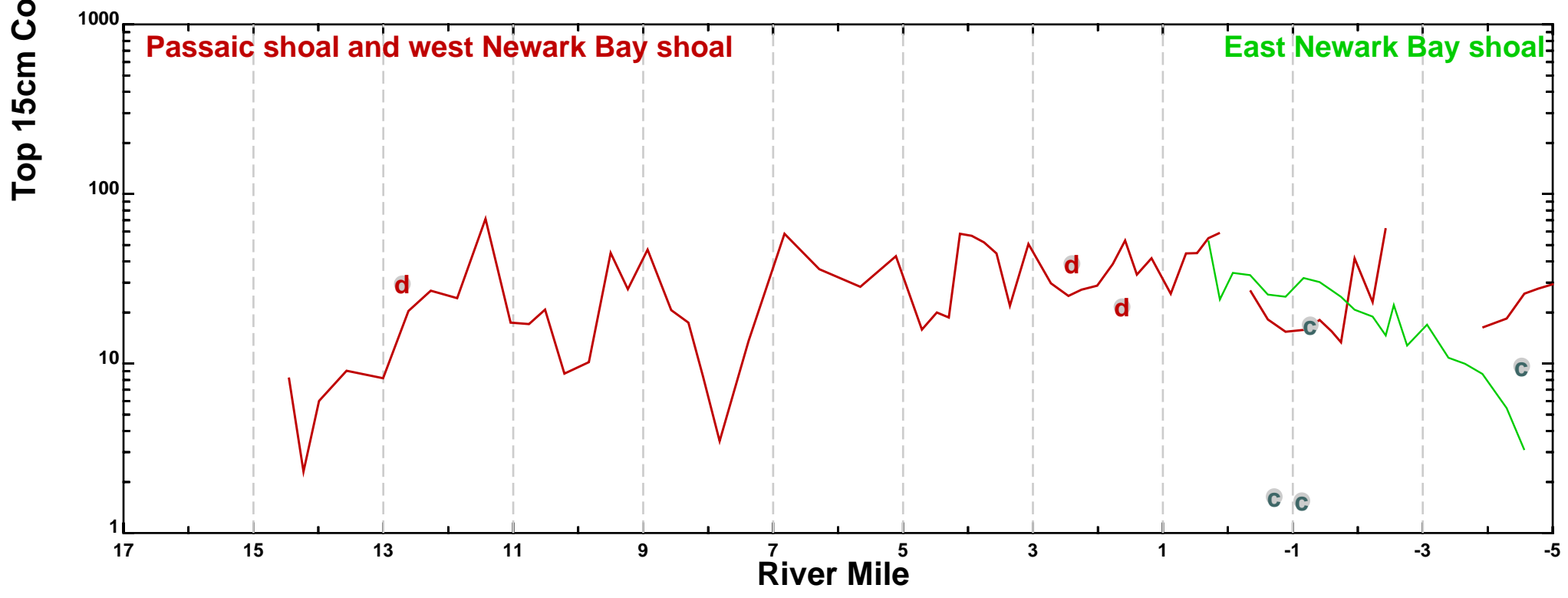
Year =2005.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

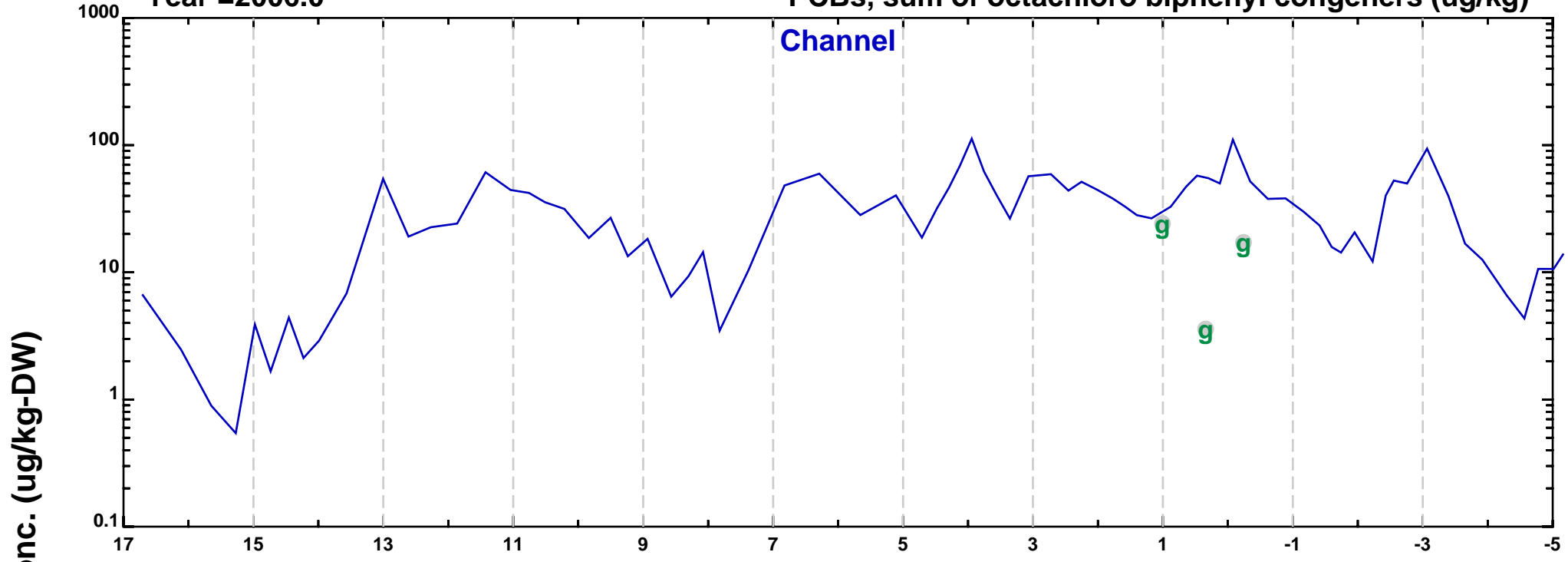
East Newark Bay shoal



River Mile

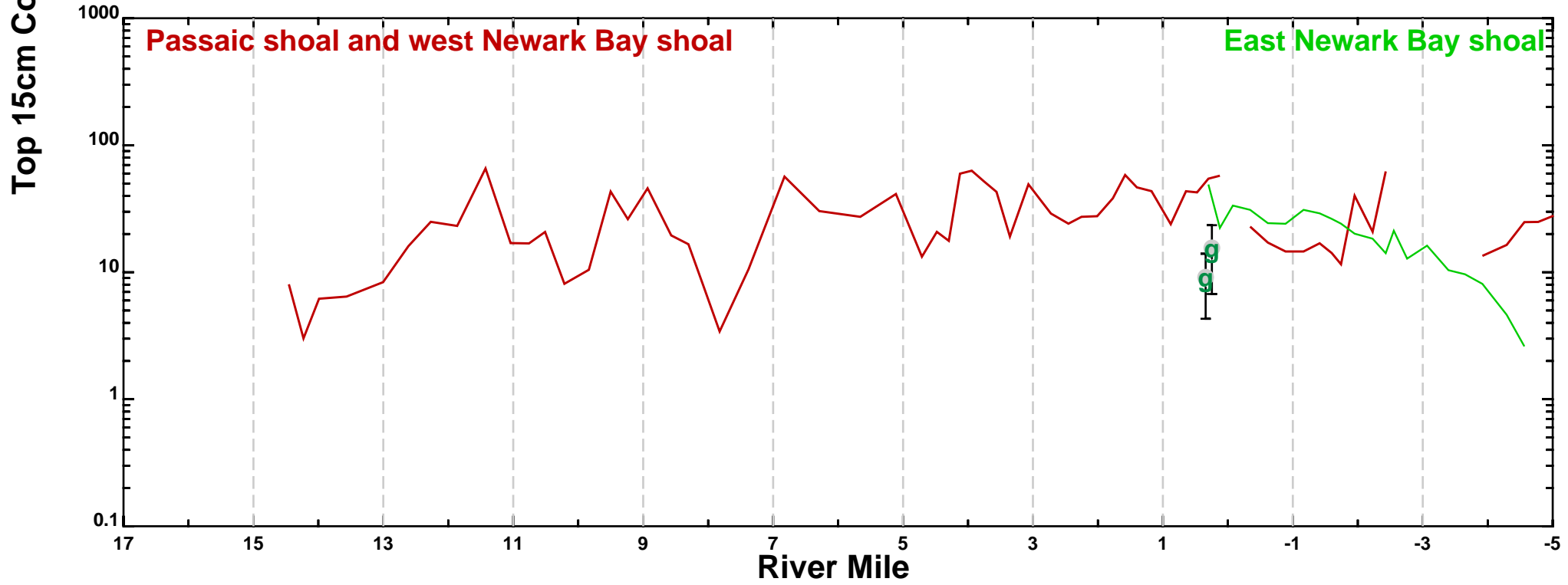
Year =2006.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

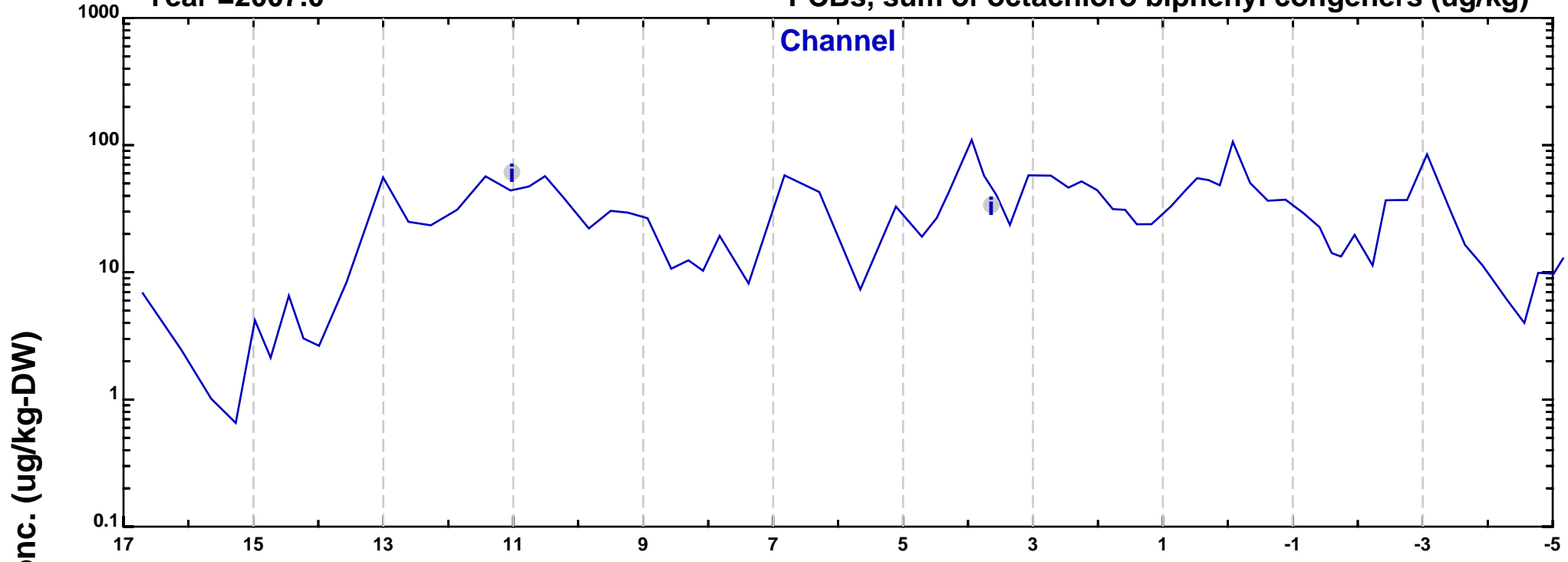
East Newark Bay shoal



River Mile

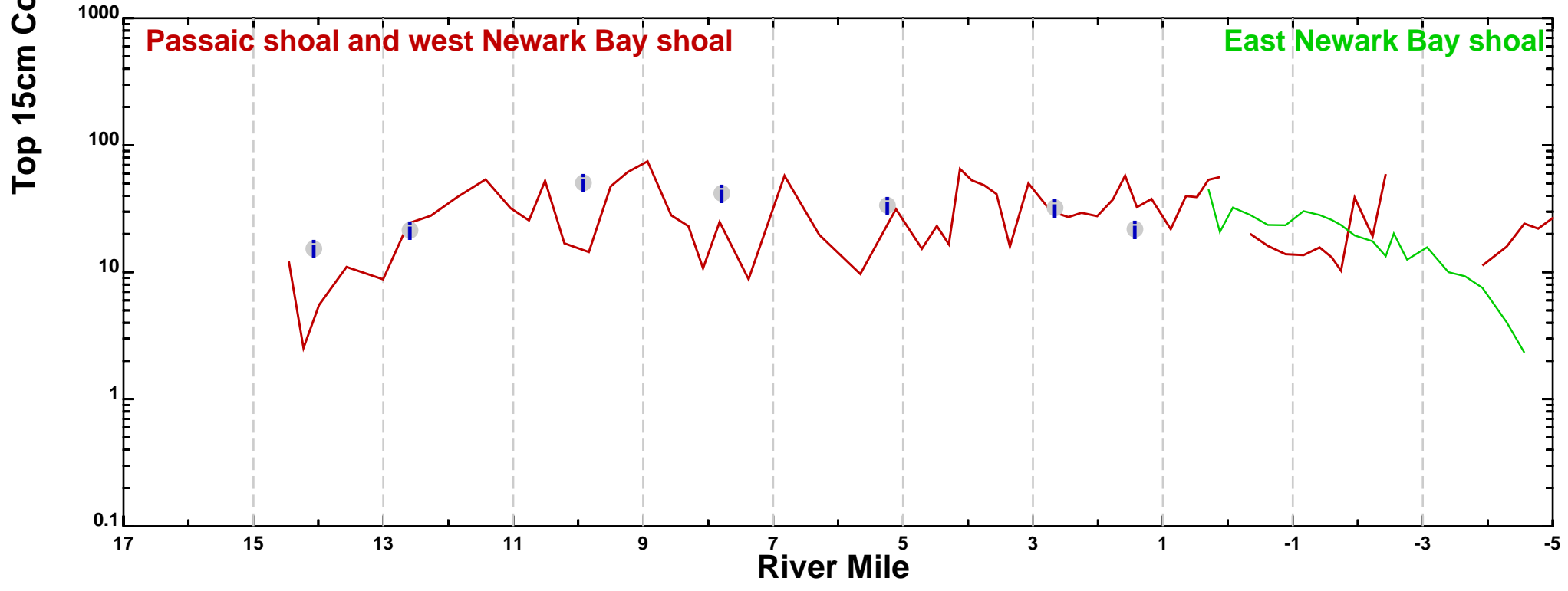
Year =2007.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

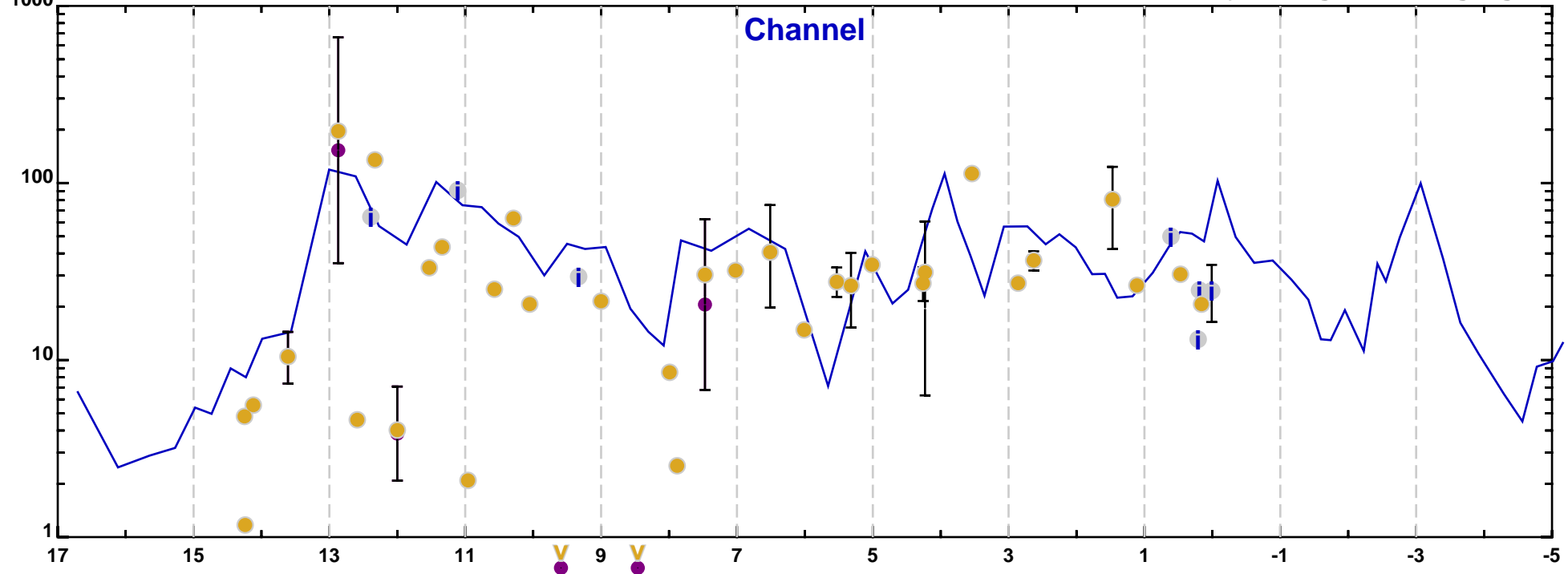


Year =2008.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)

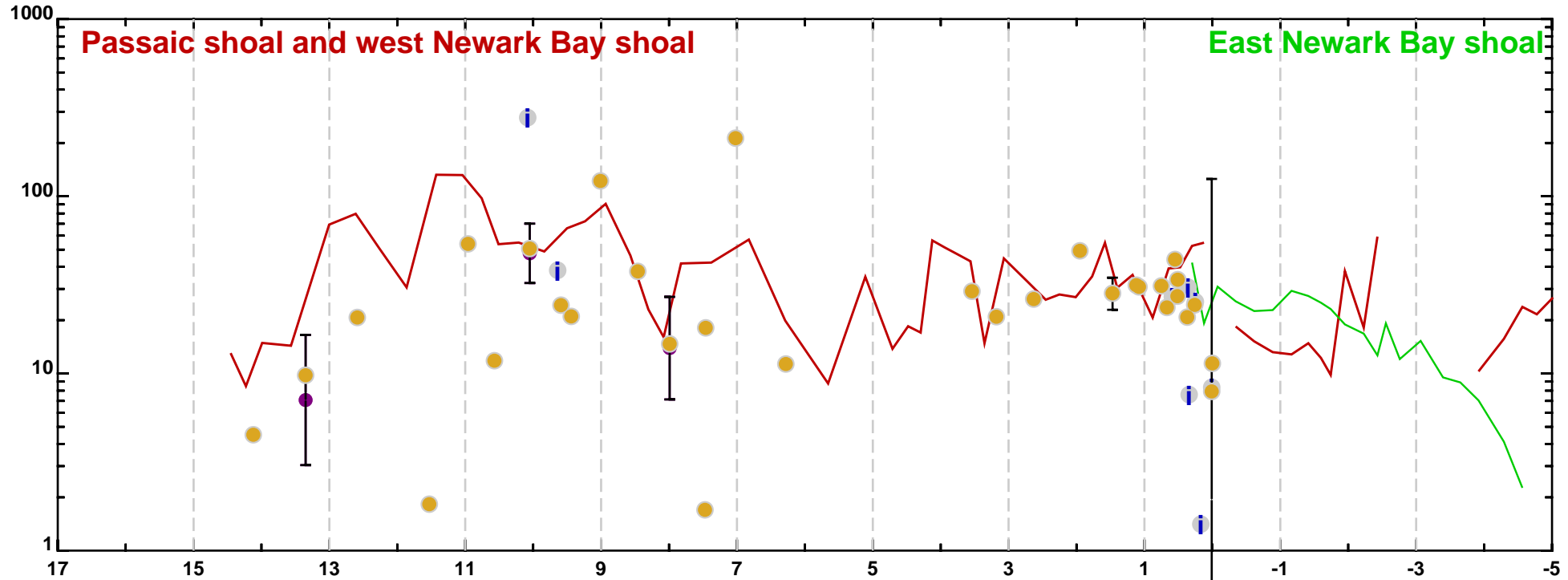
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



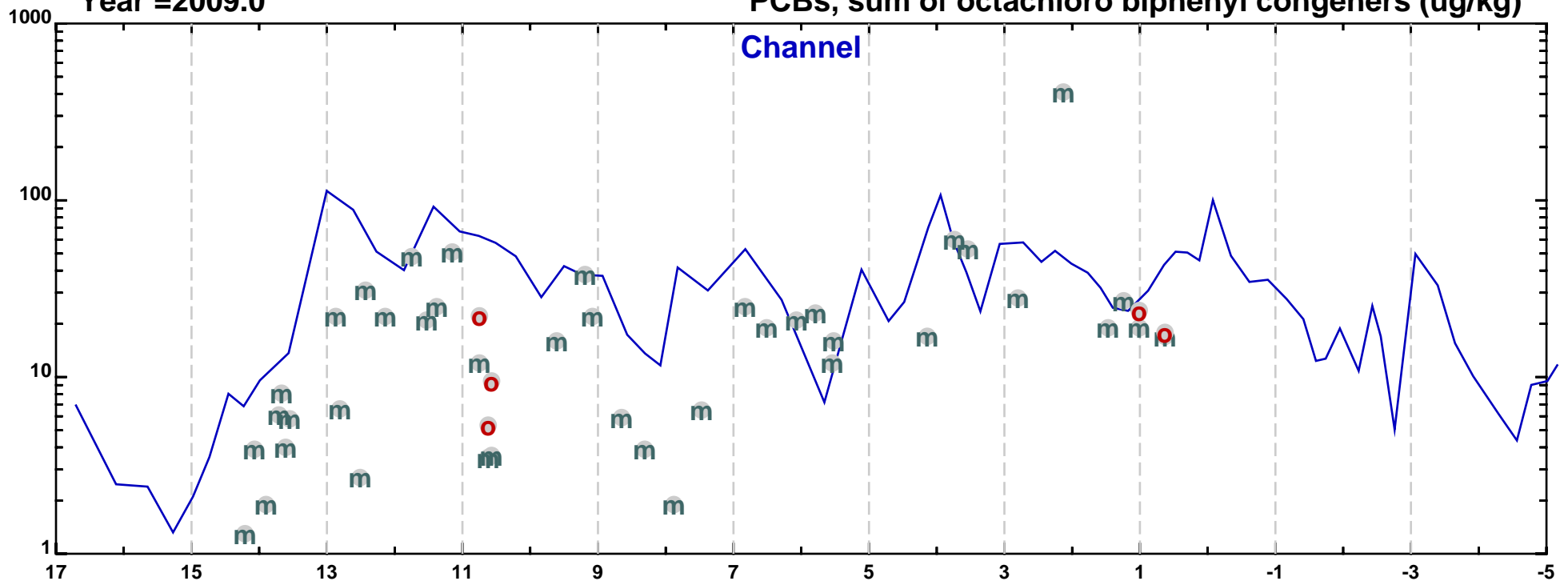
River Mile

Year =2009.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)

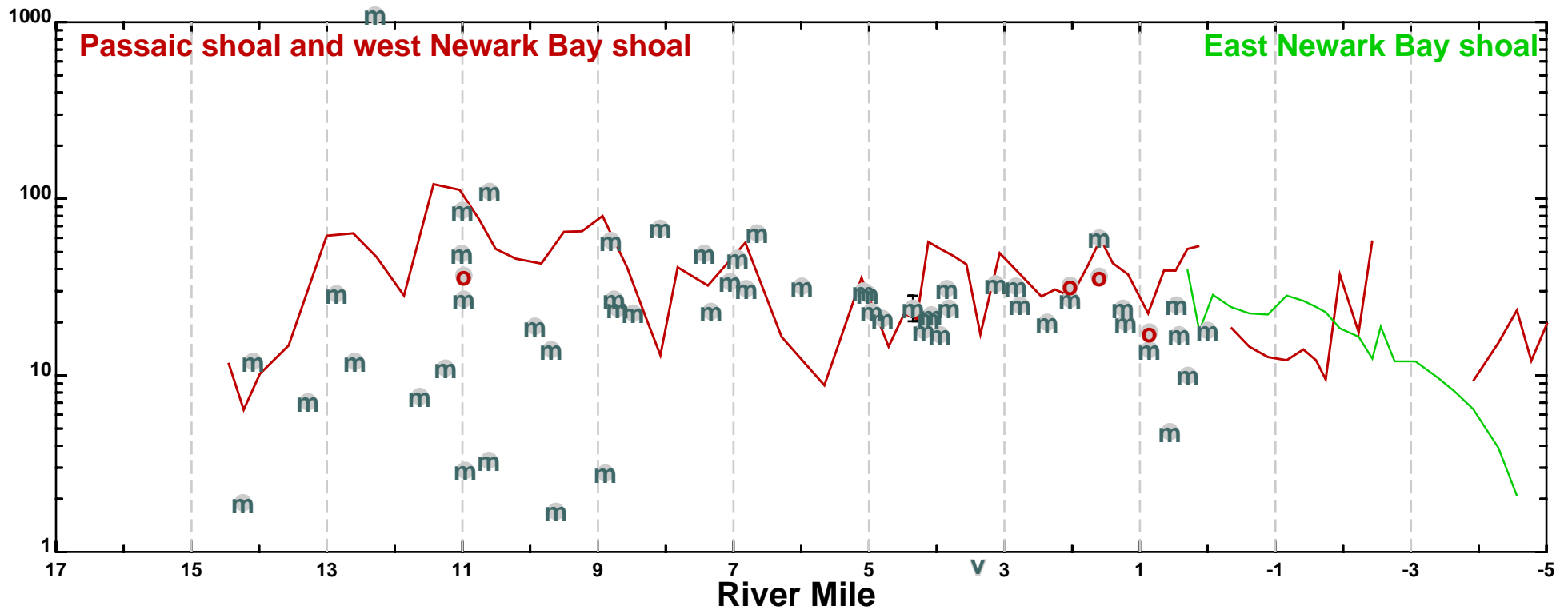
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

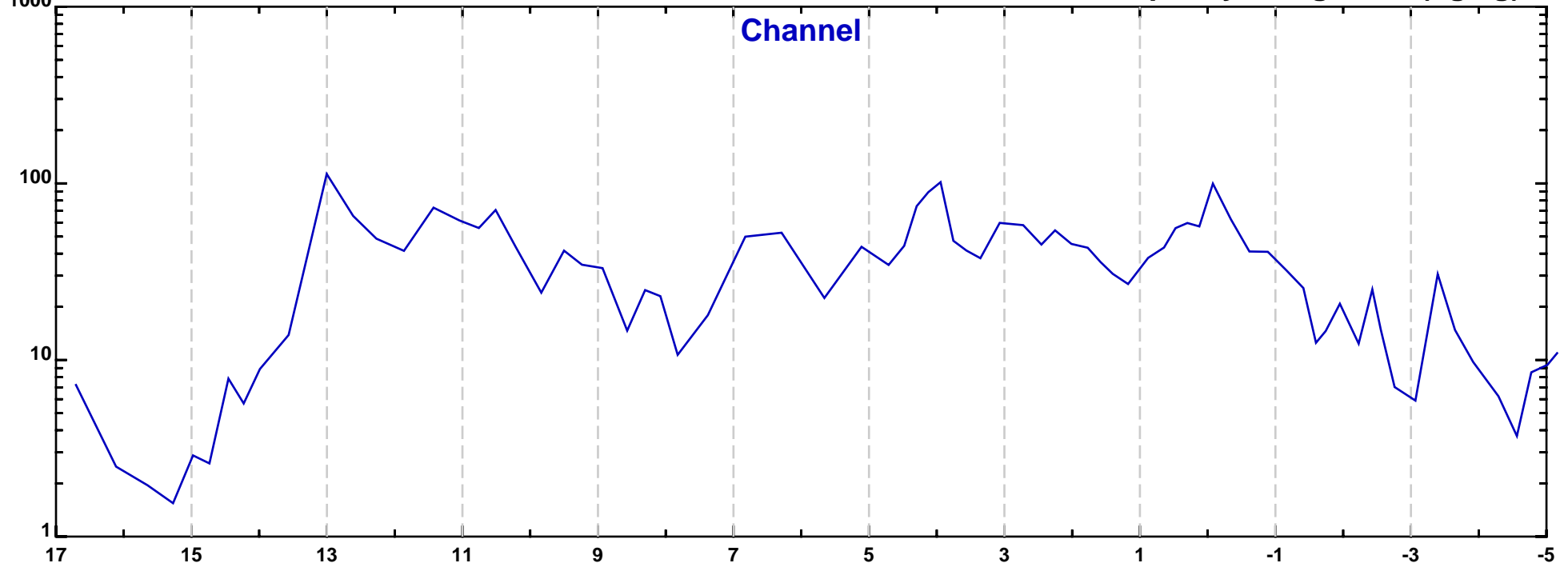


Year =2010.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)

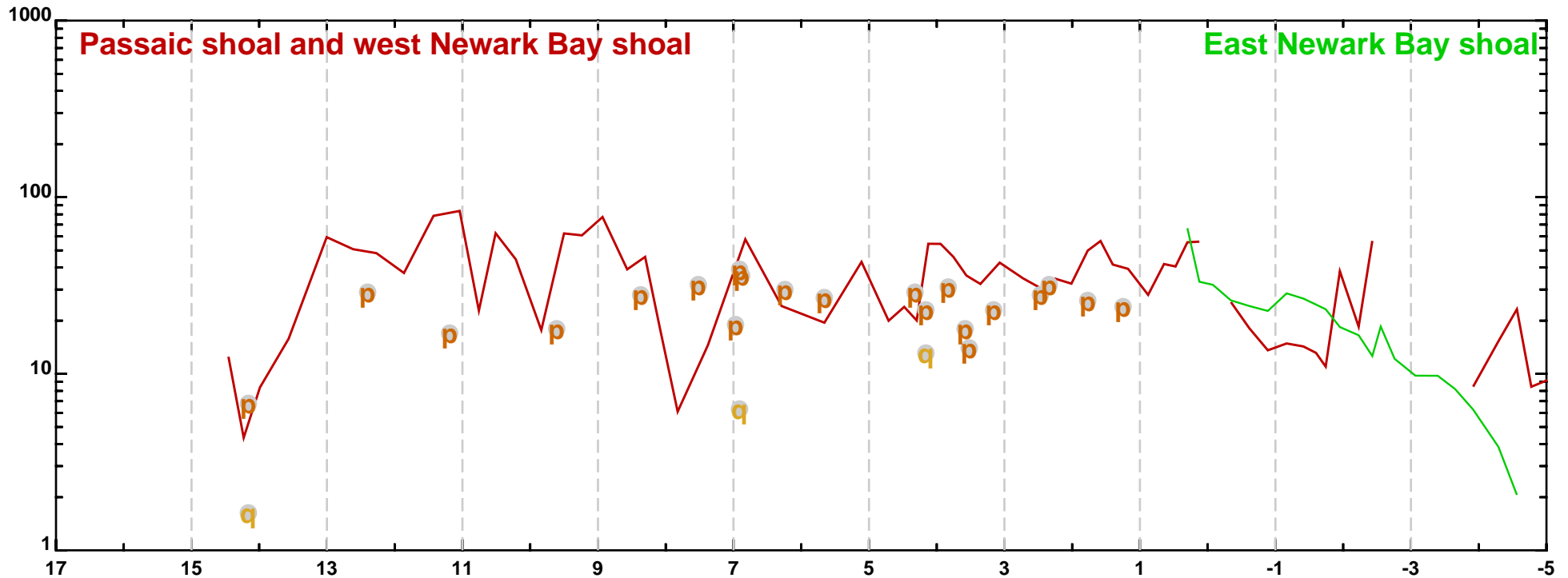
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

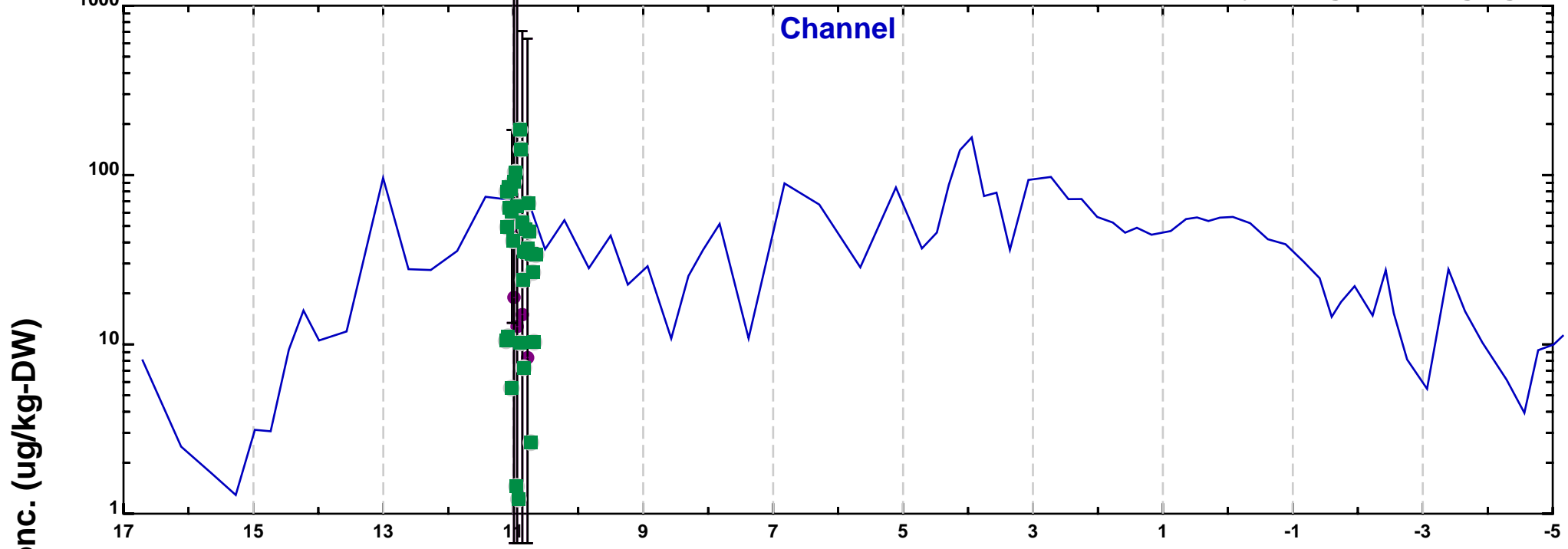
East Newark Bay shoal



River Mile

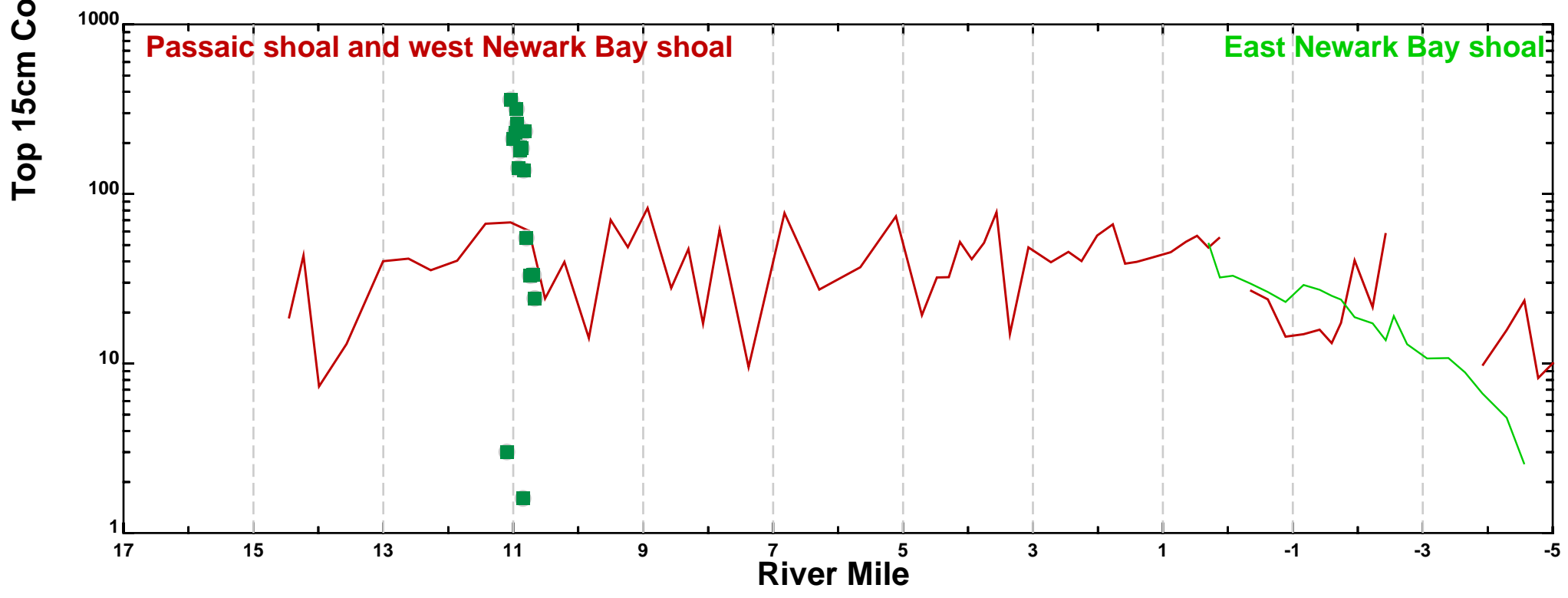
Year =2011.0

PCBs, sum of octachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

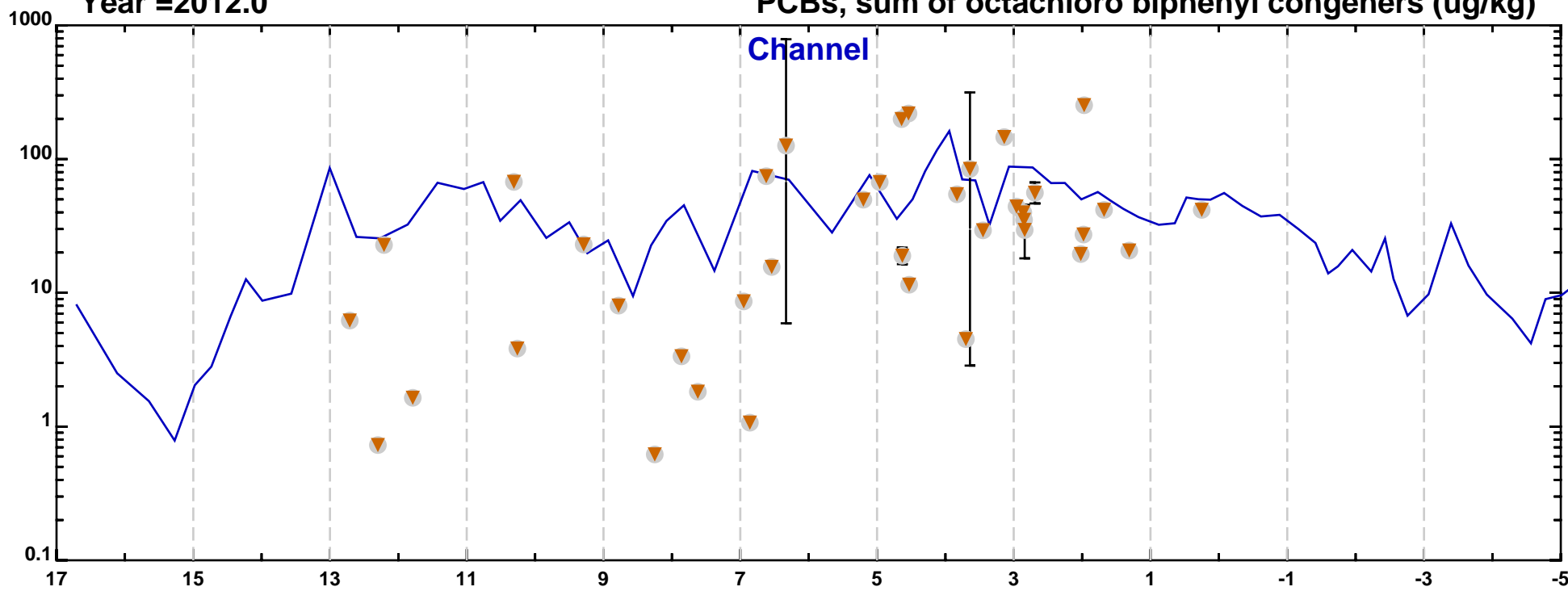


River Mile

Year =2012.0

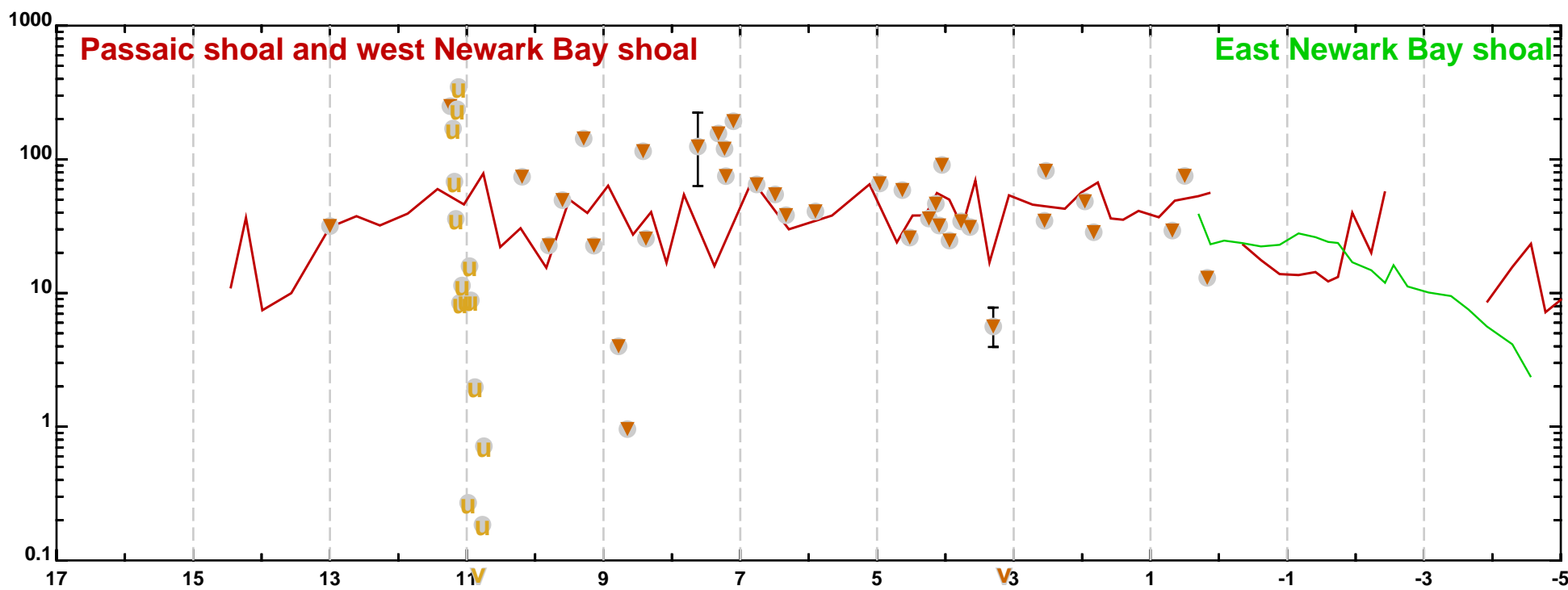
PCBs, sum of octachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

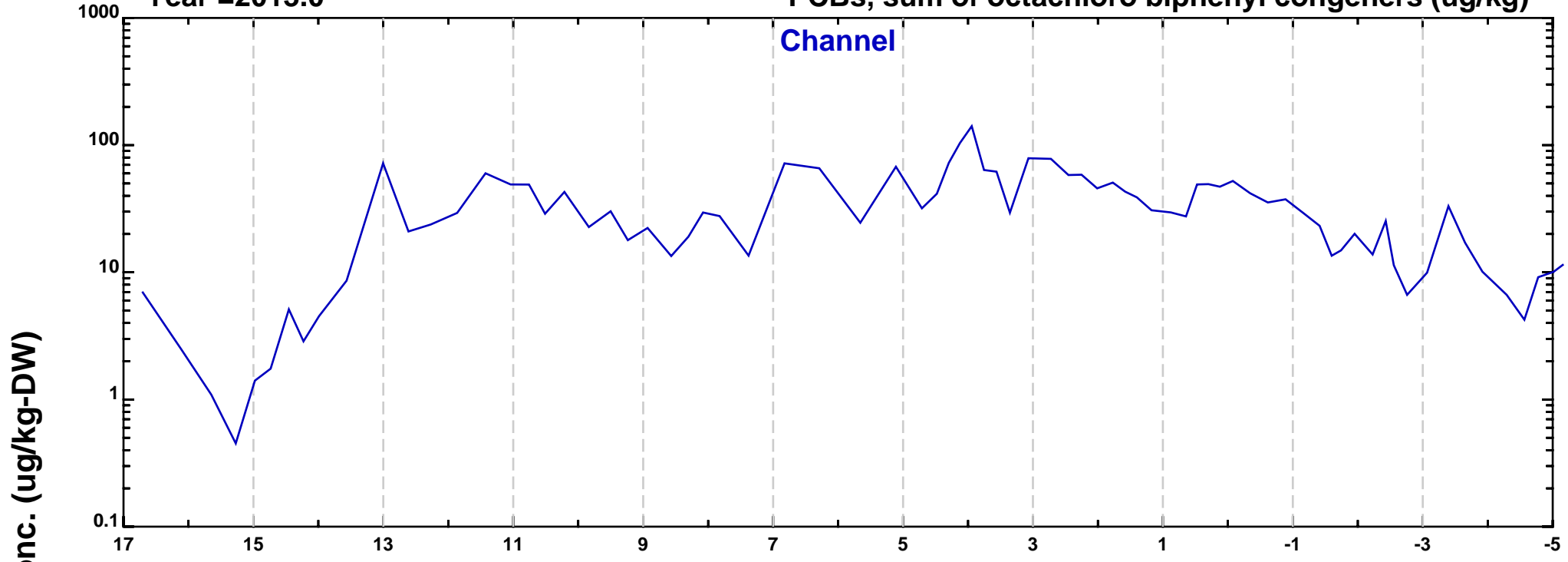


River Mile



Year =2013.0

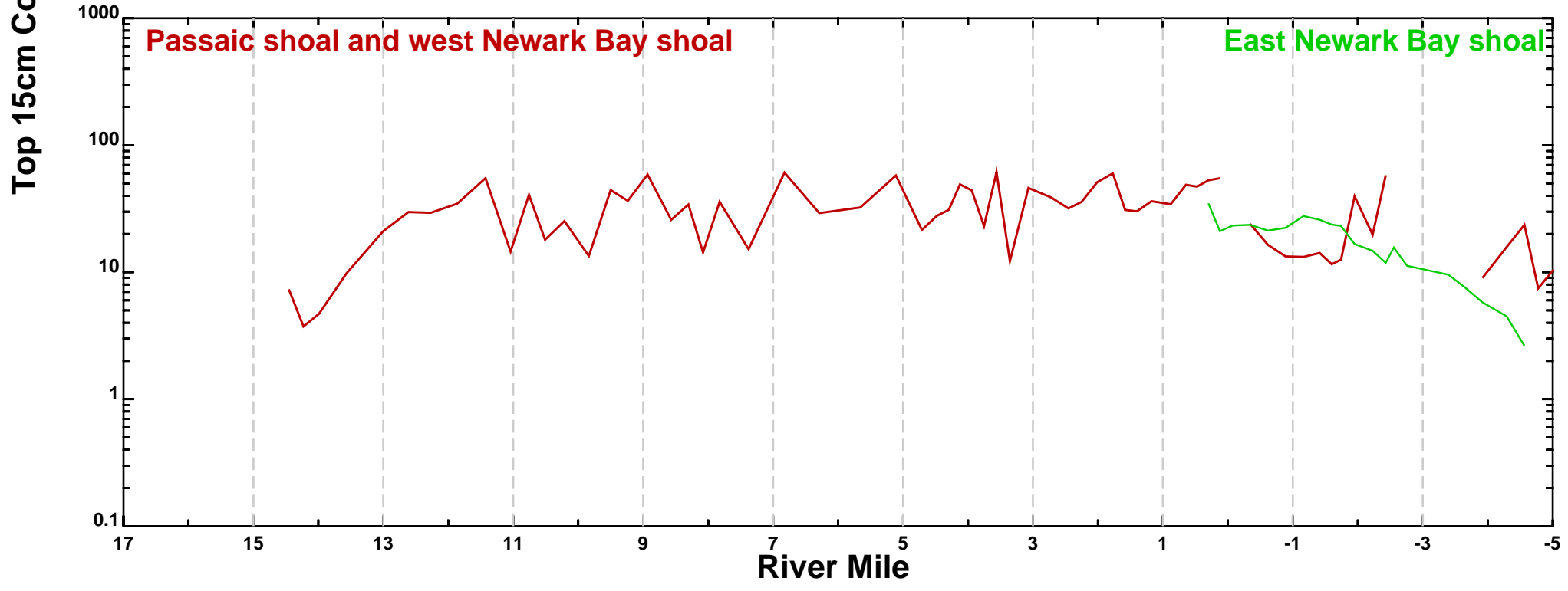
PCBs, sum of octachloro biphenyl congeners (ug/kg)



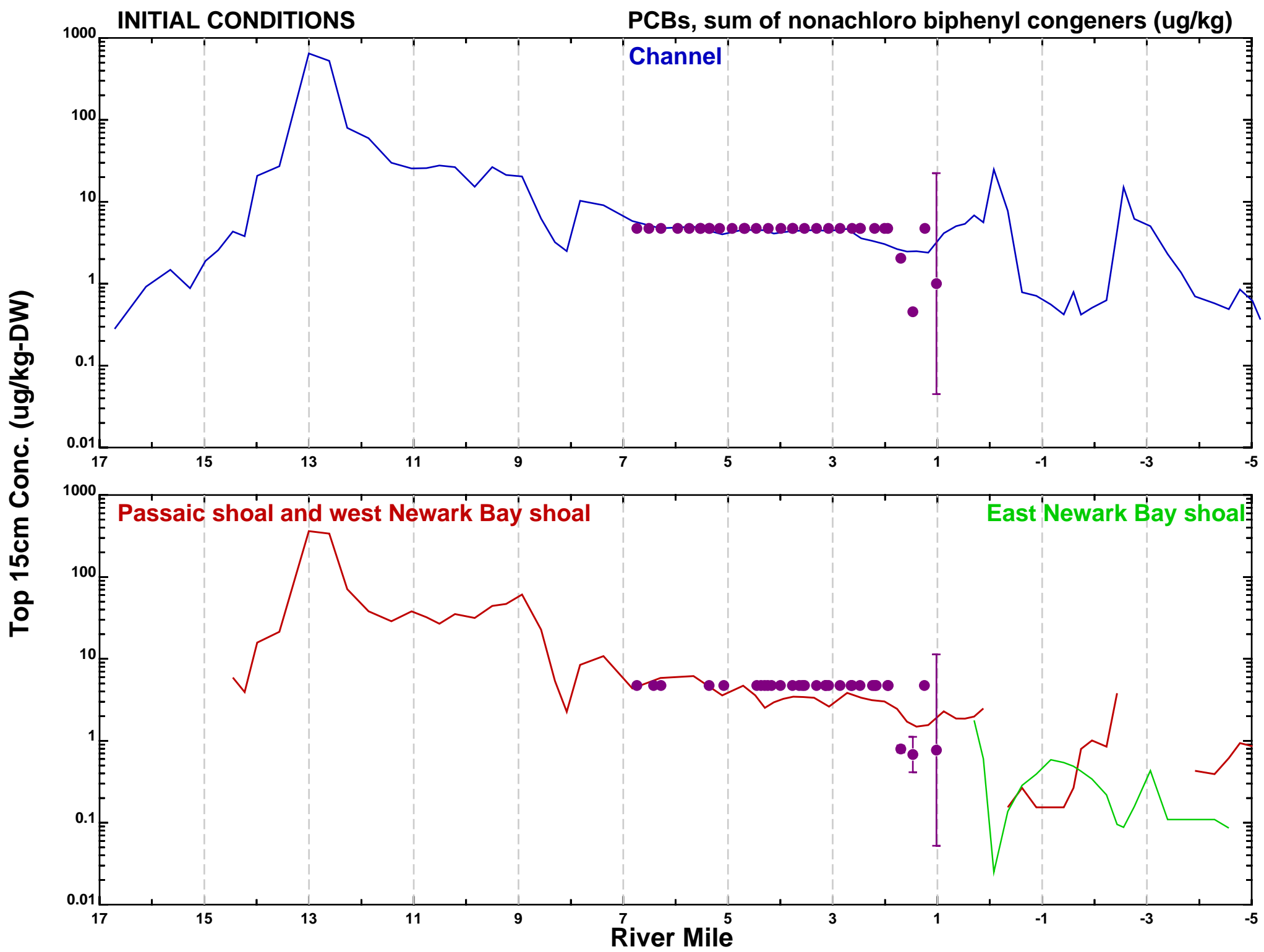
Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

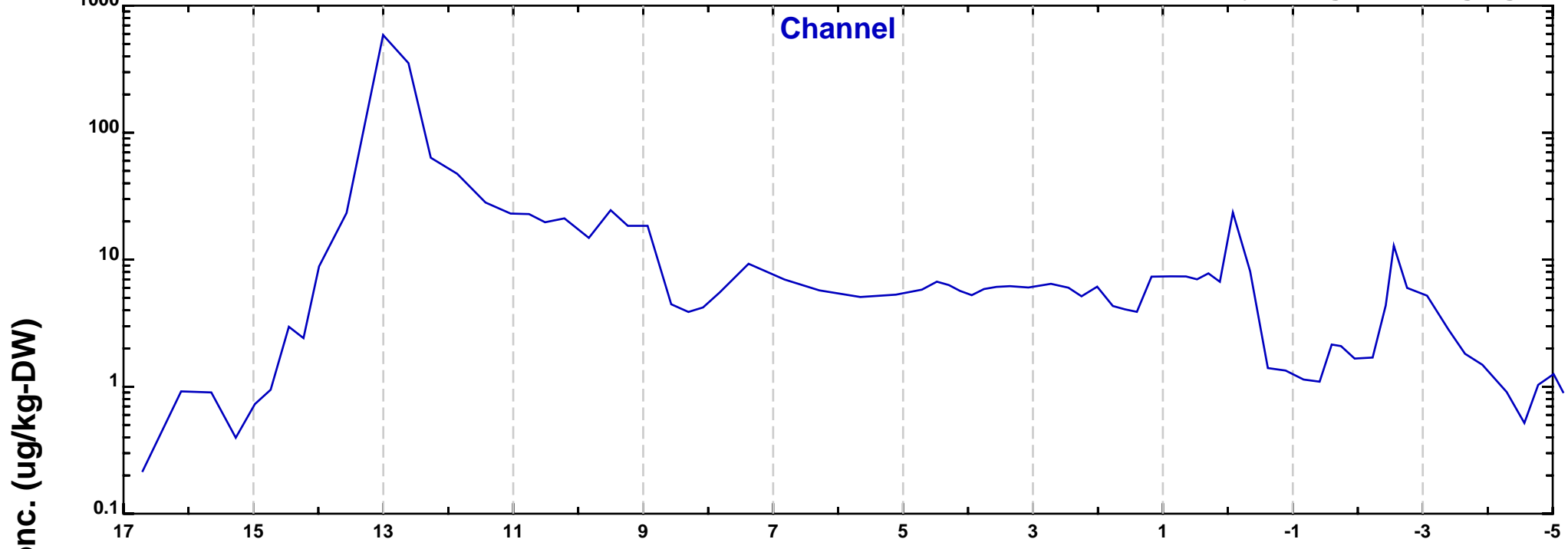


River Mile



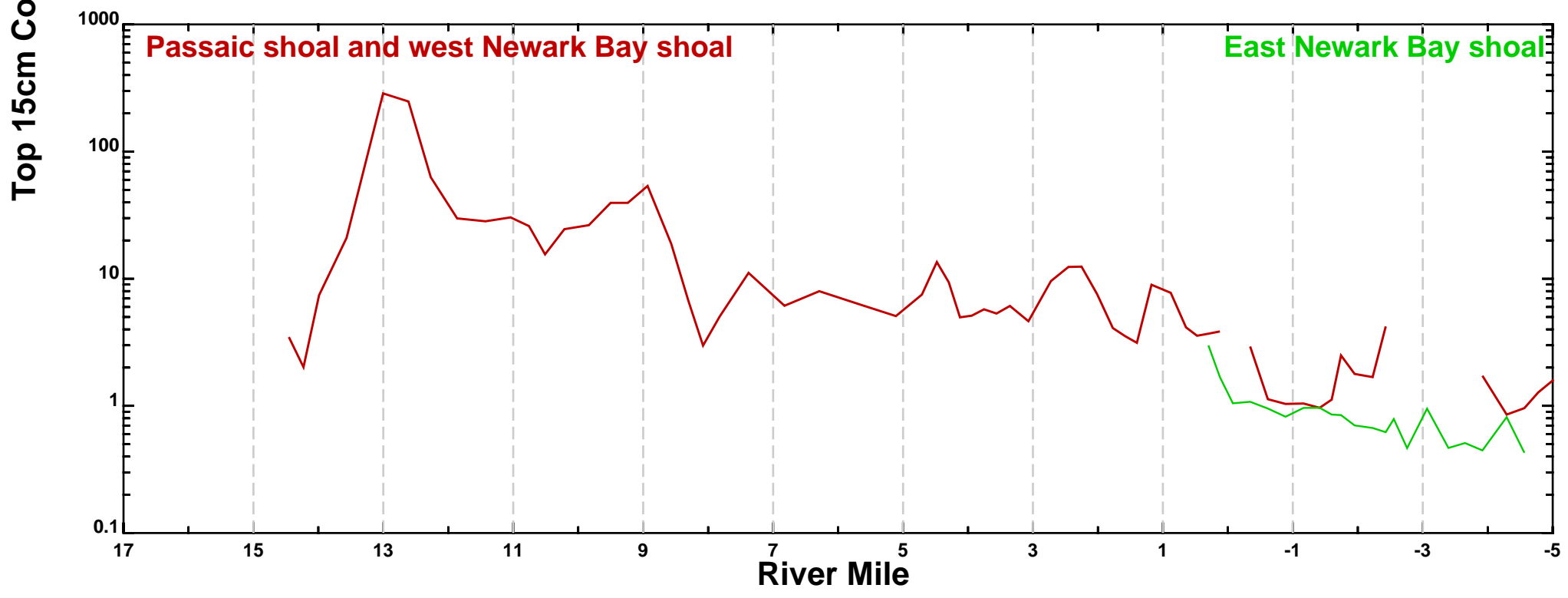
Year = 1996.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



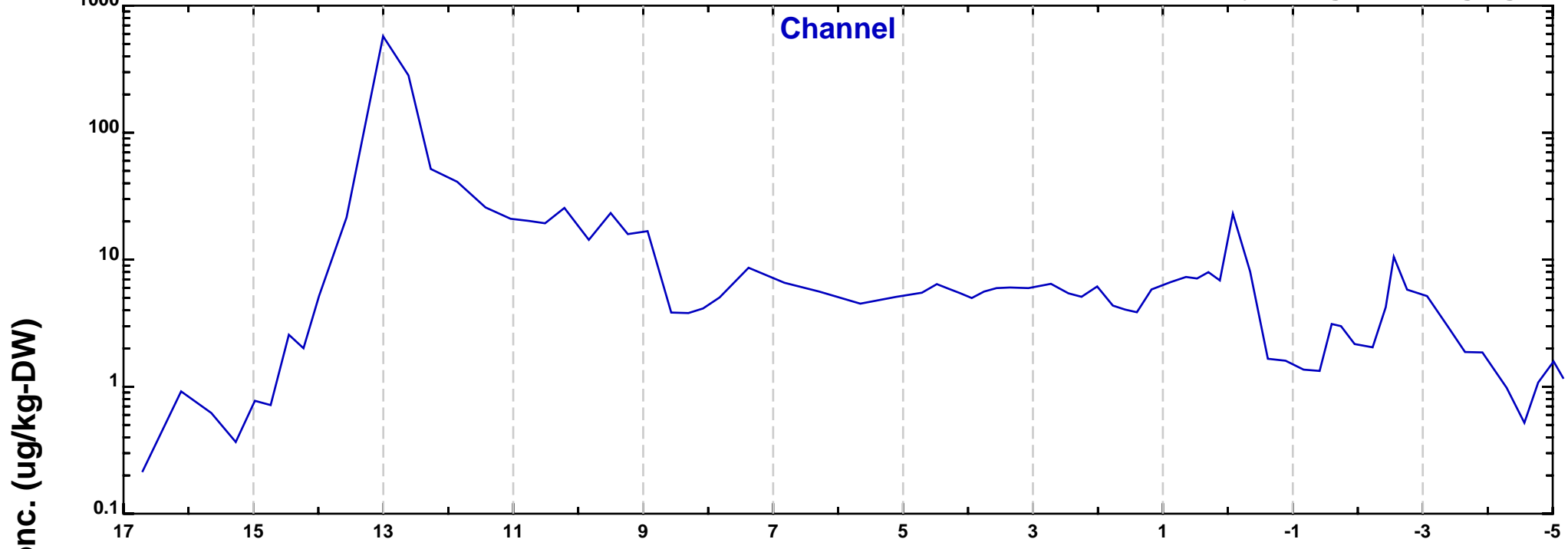
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



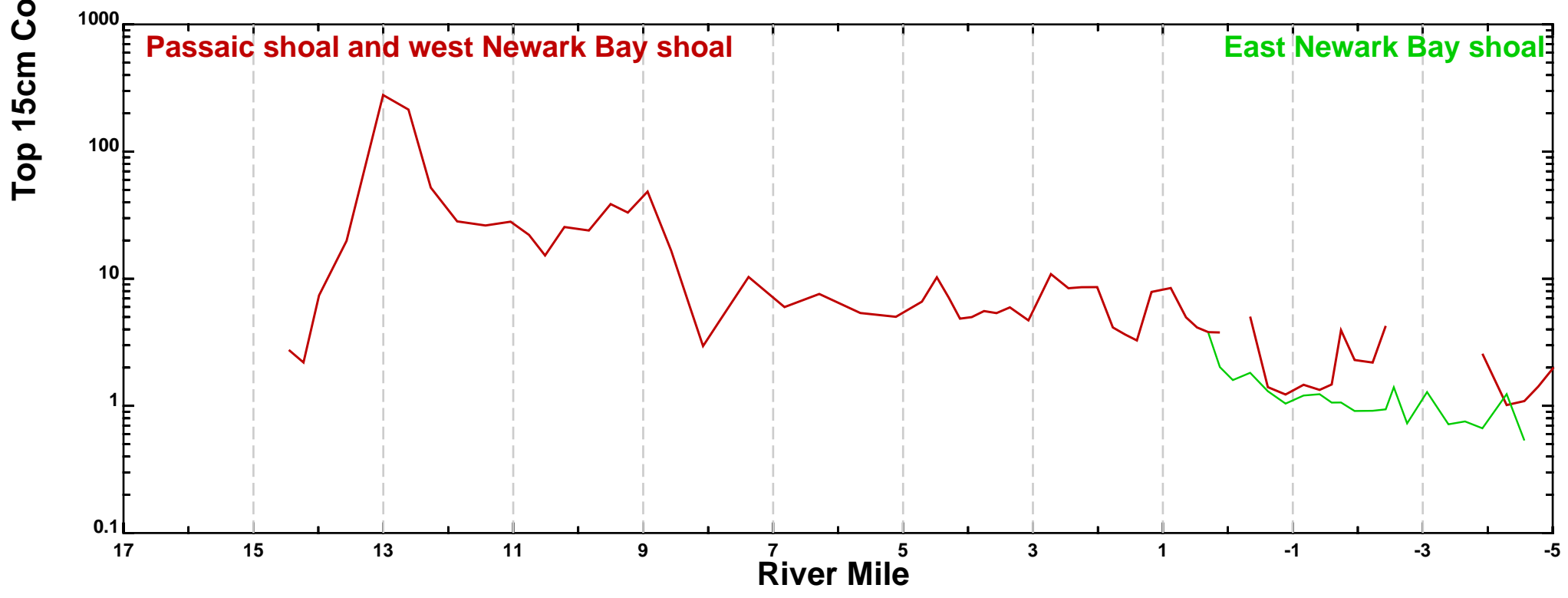
Year = 1997.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



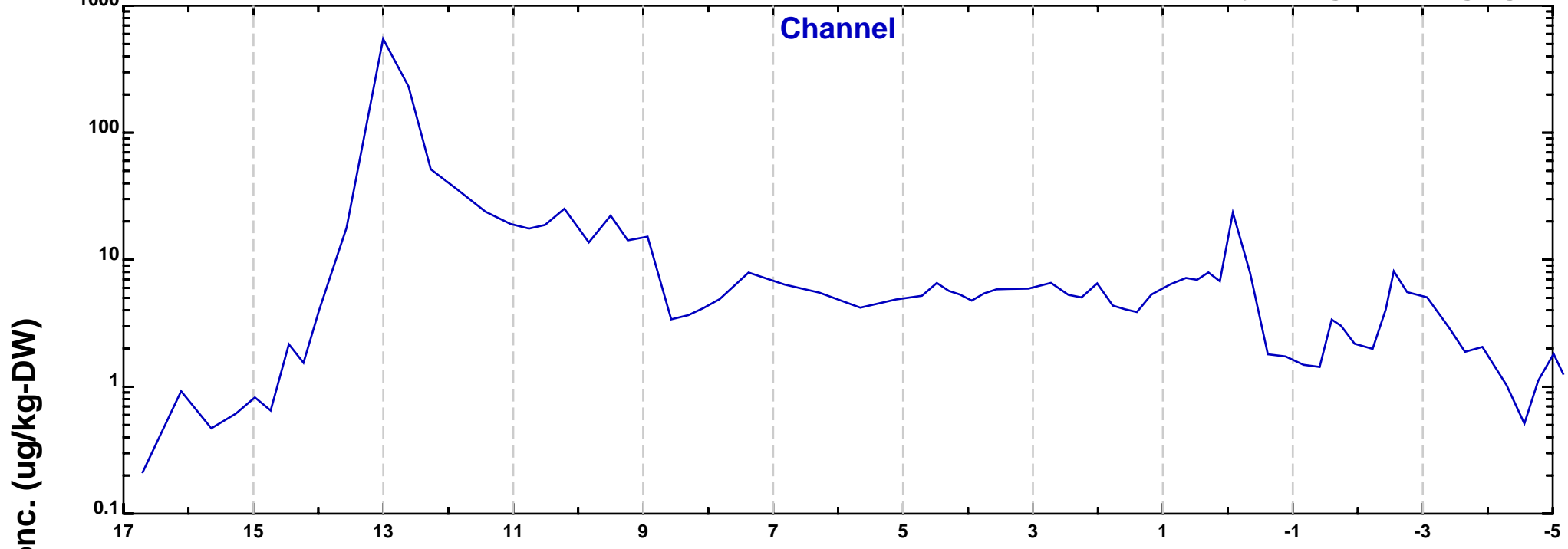
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



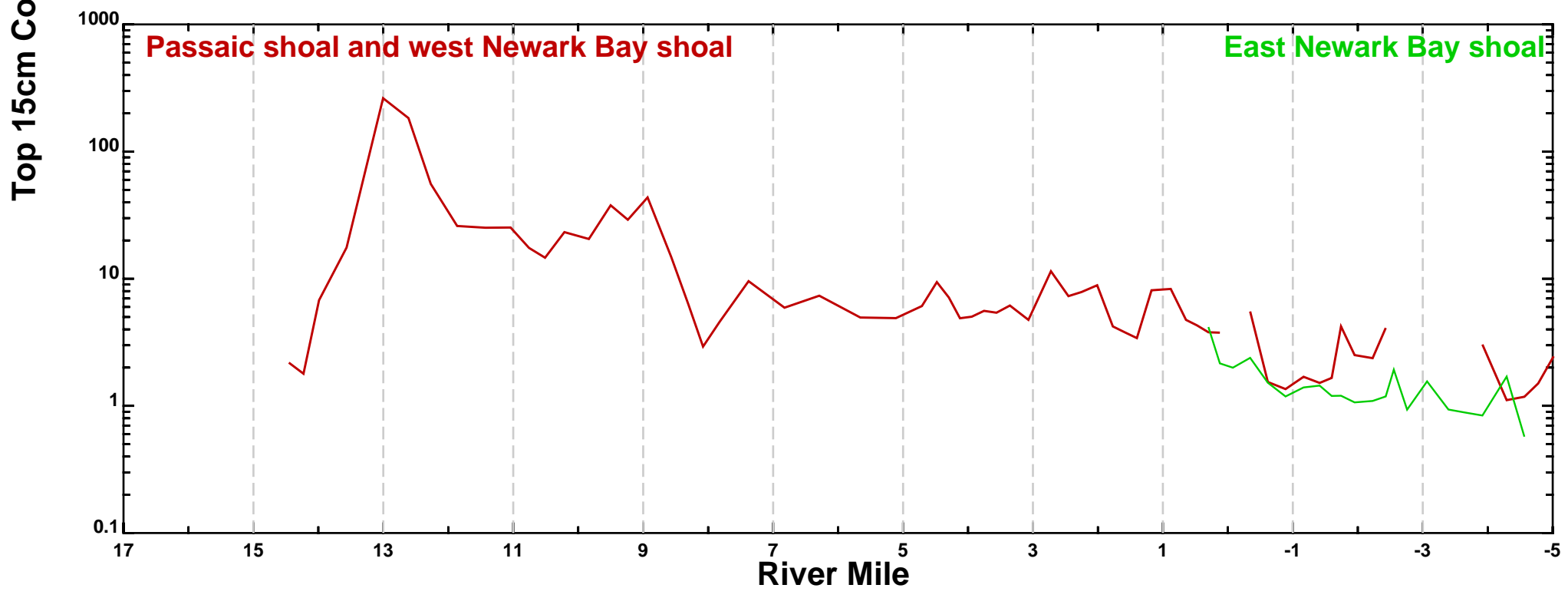
Year = 1998.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

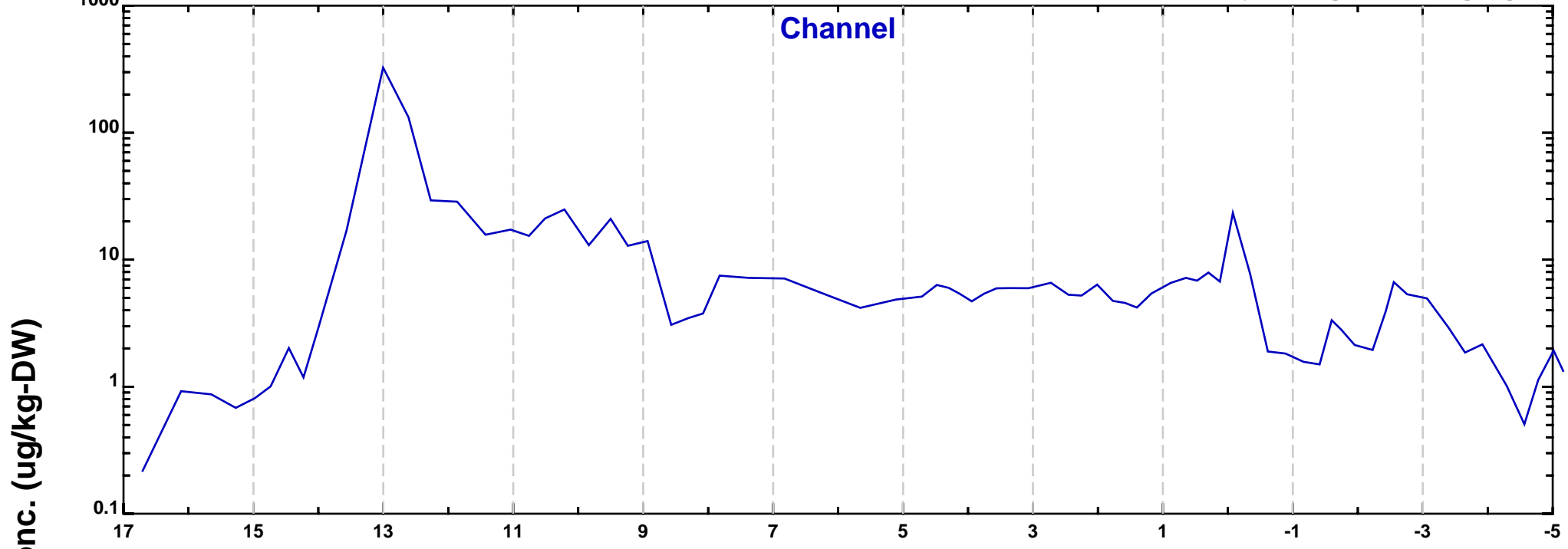
East Newark Bay shoal



River Mile

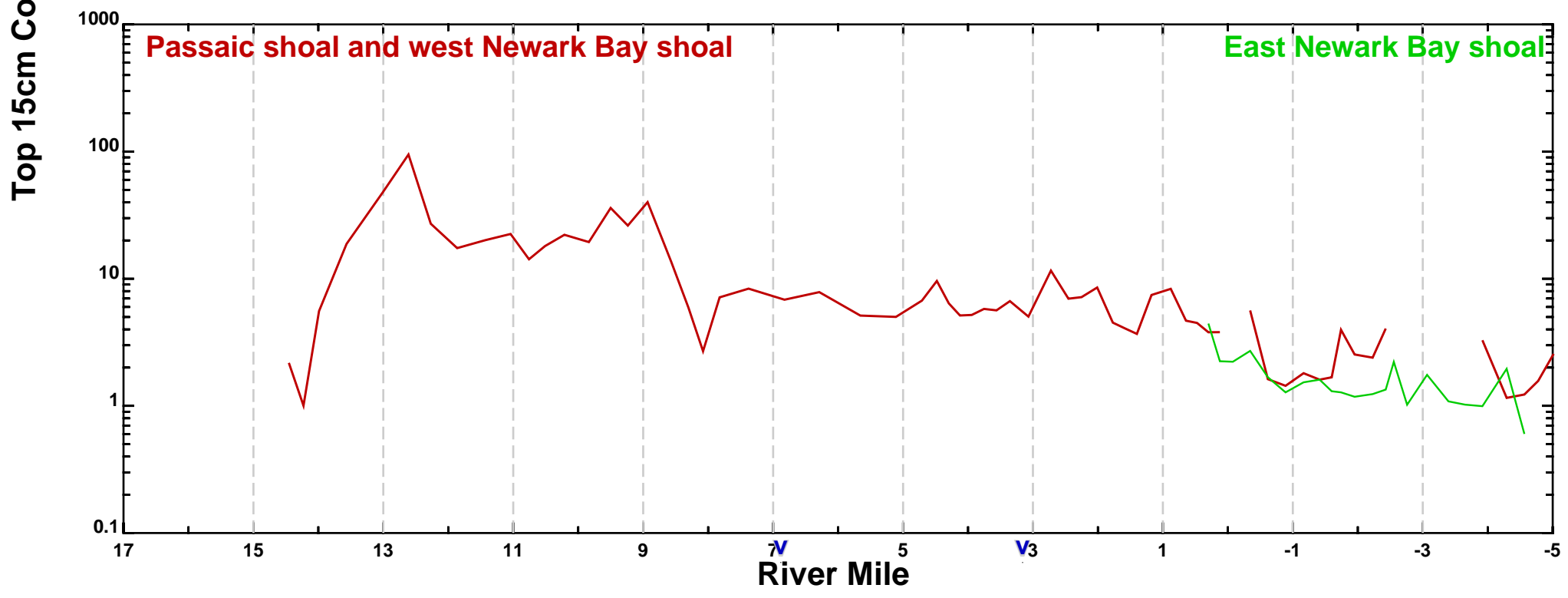
Year = 1999.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

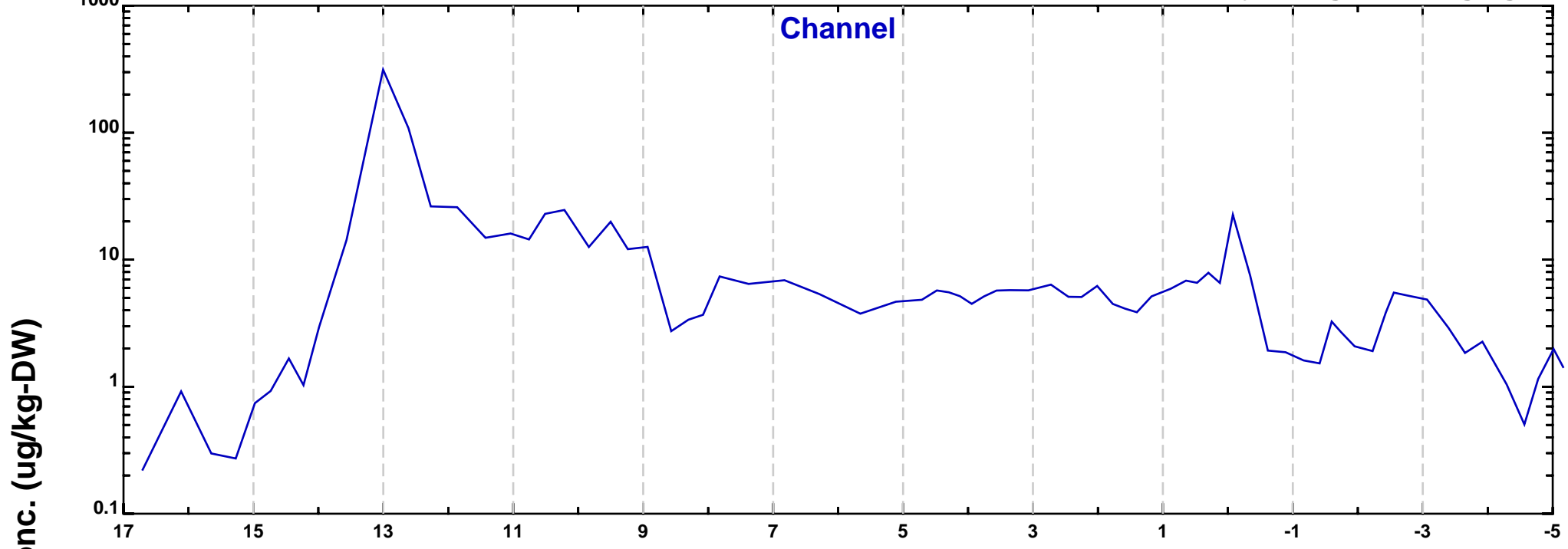
East Newark Bay shoal



River Mile

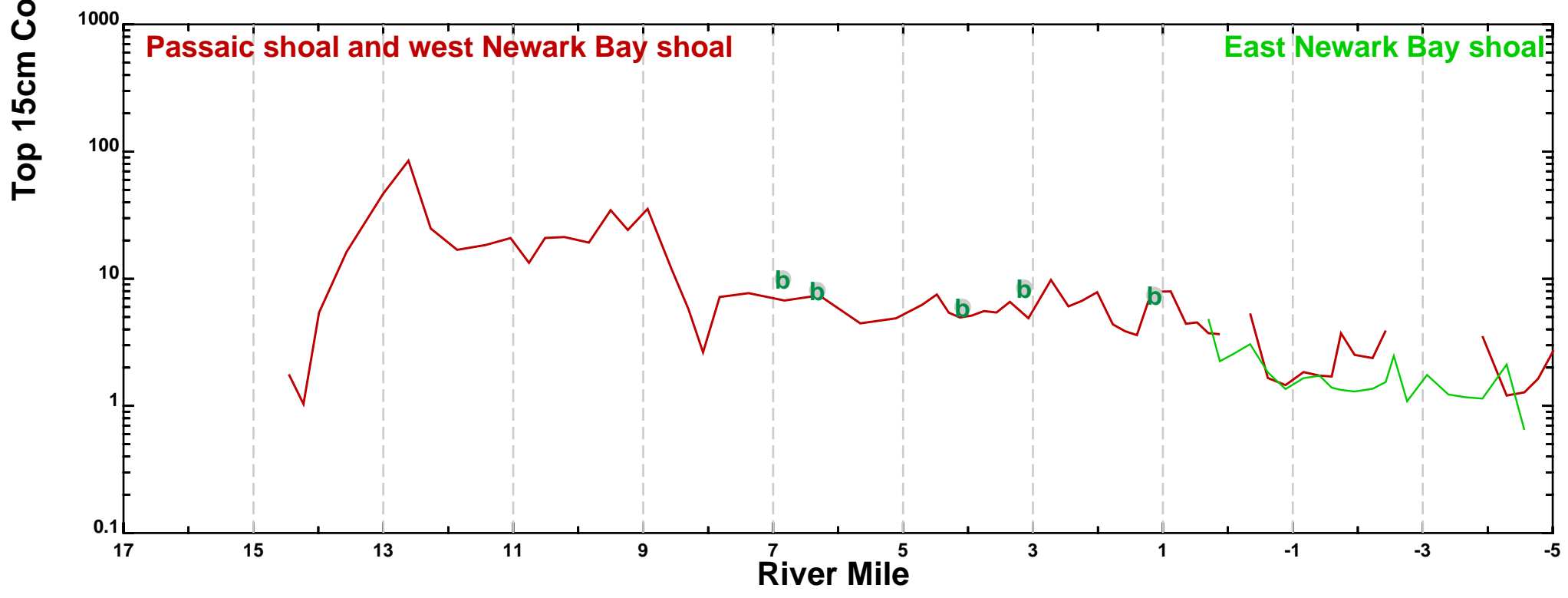
Year =2000.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



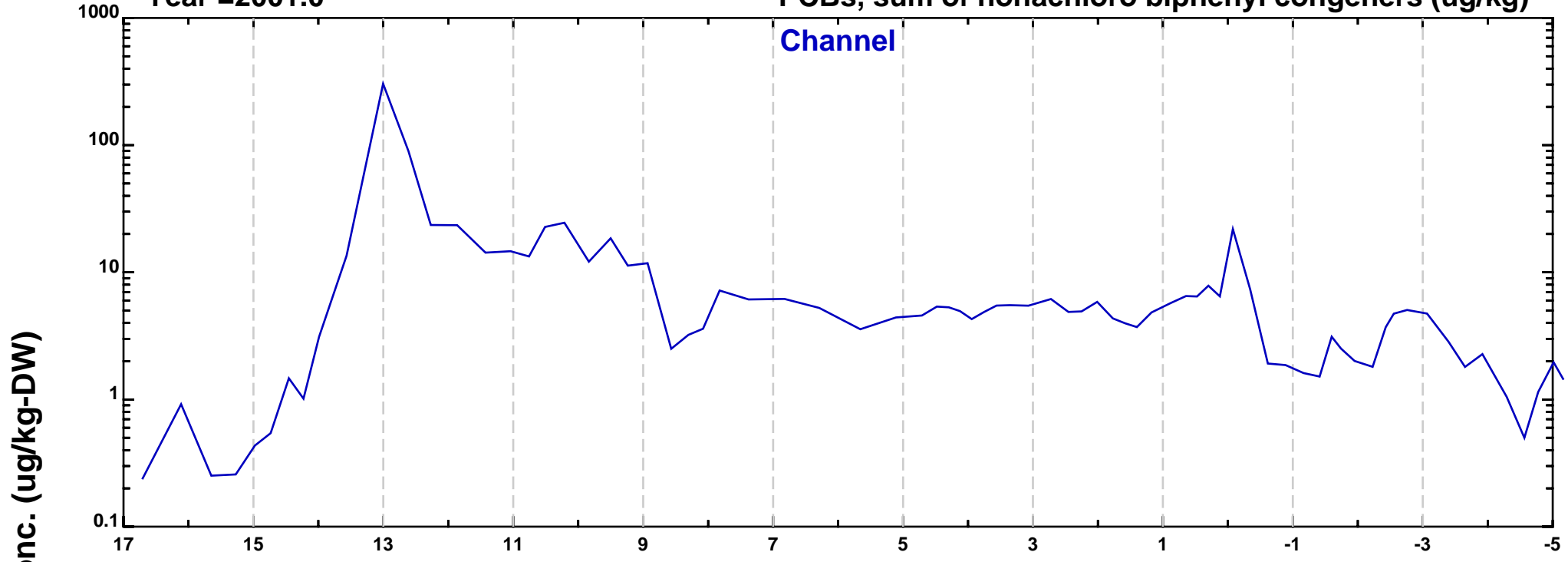
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



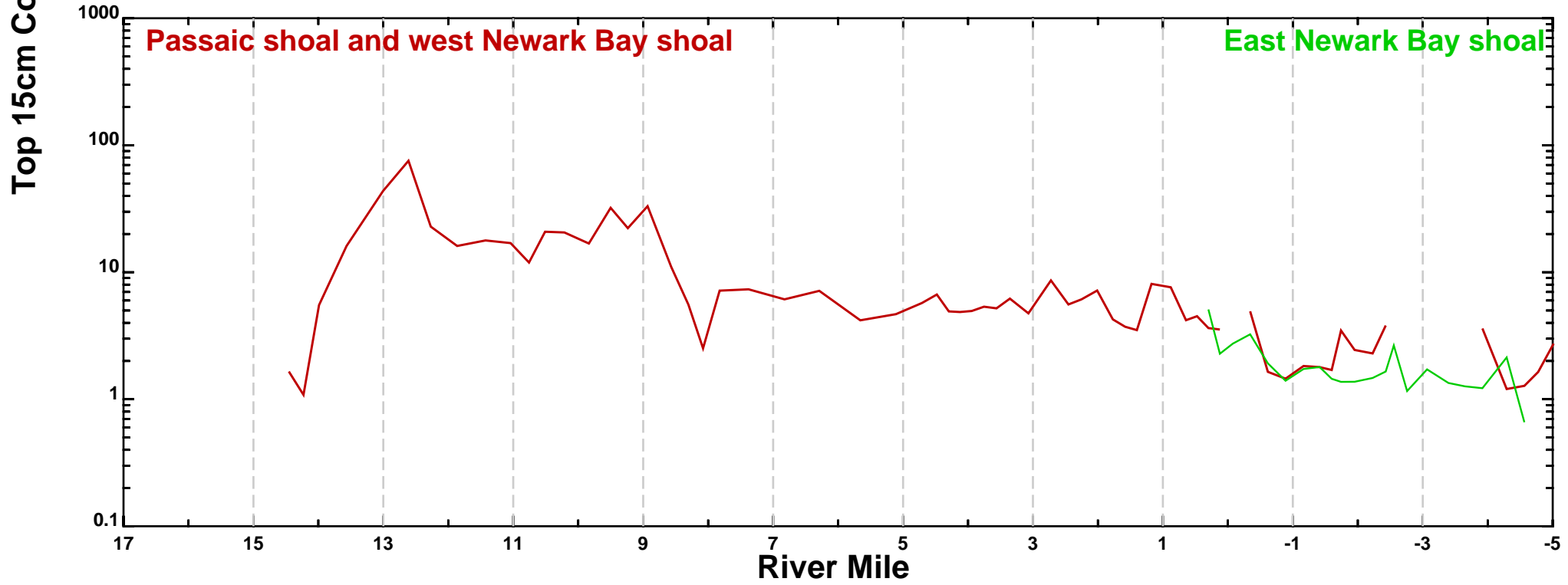
Year =2001.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

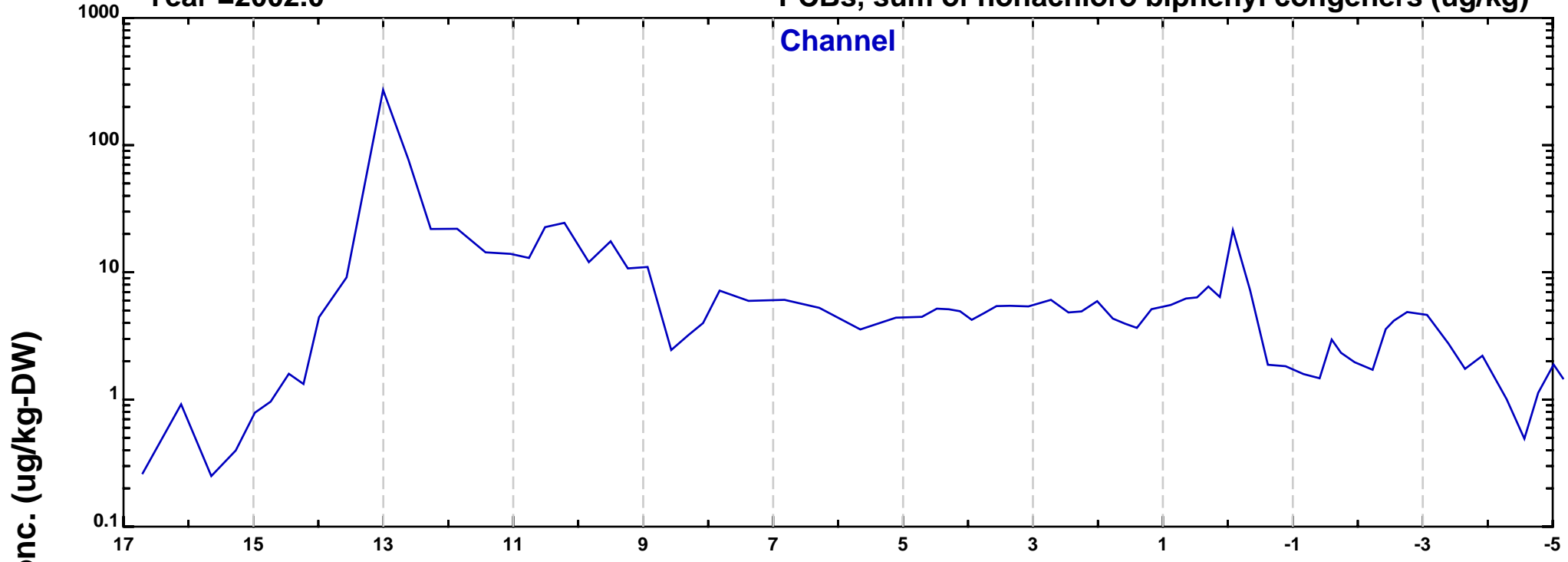
East Newark Bay shoal





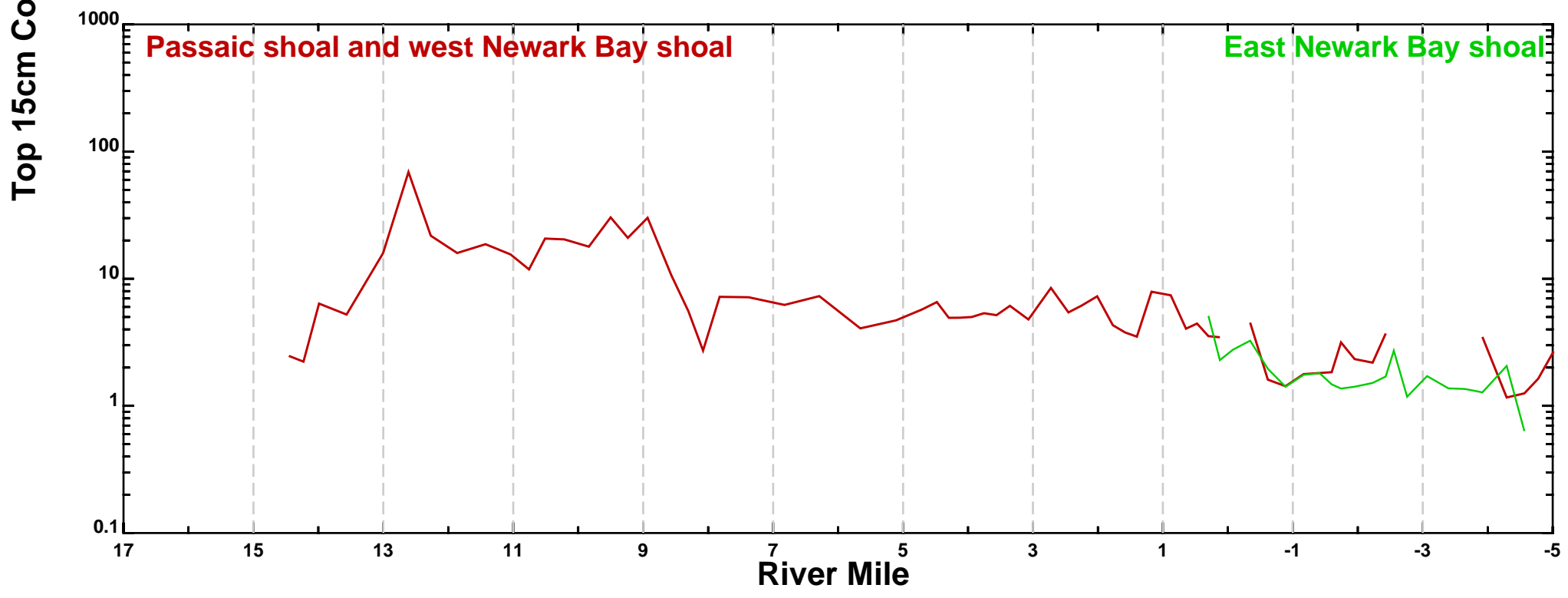
Year =2002.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



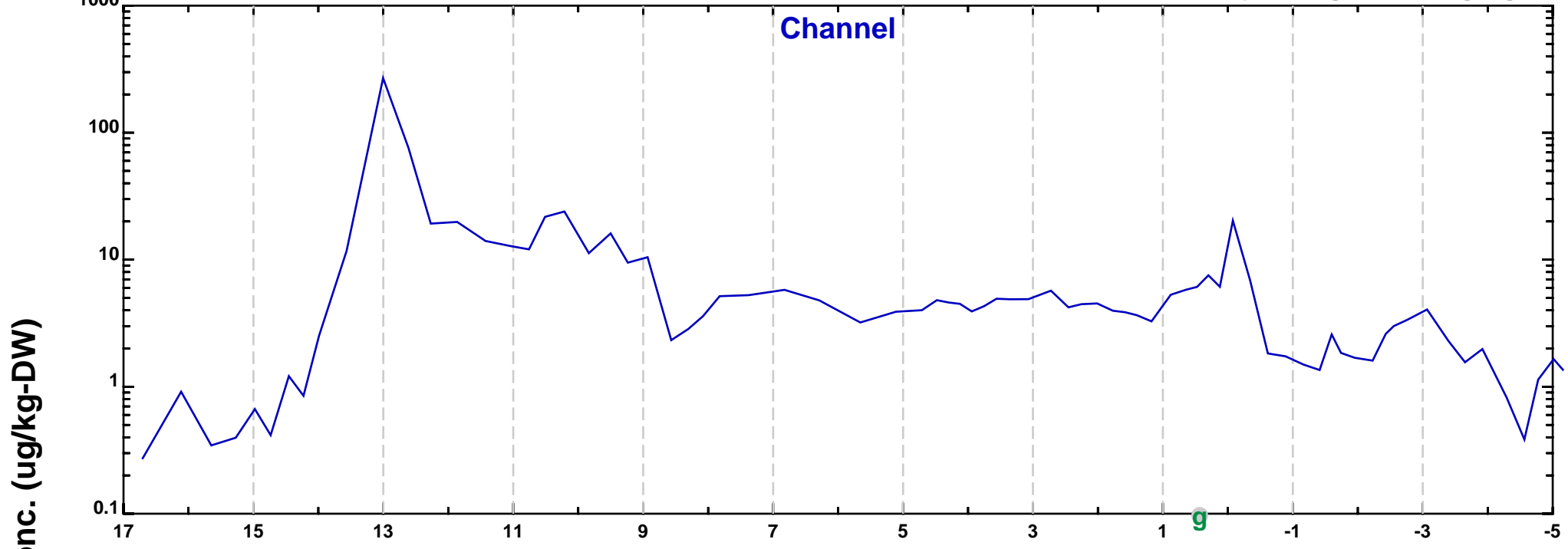
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



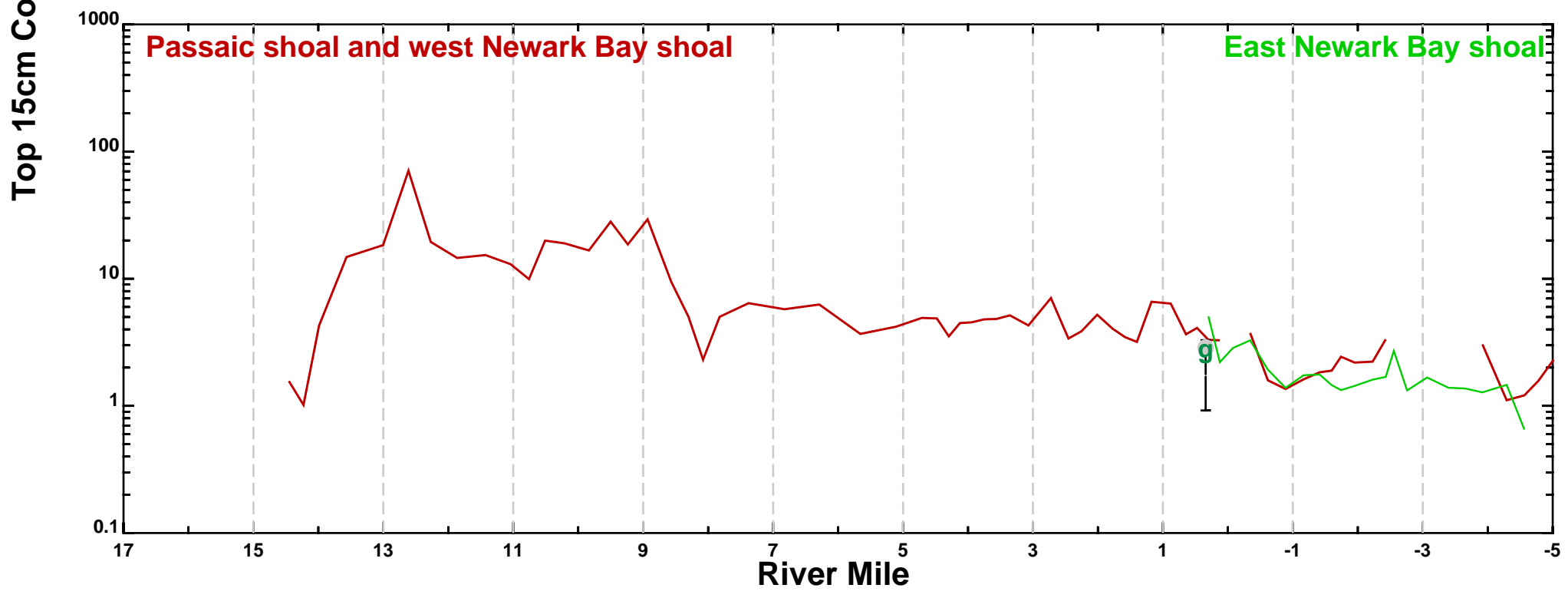
Year =2003.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



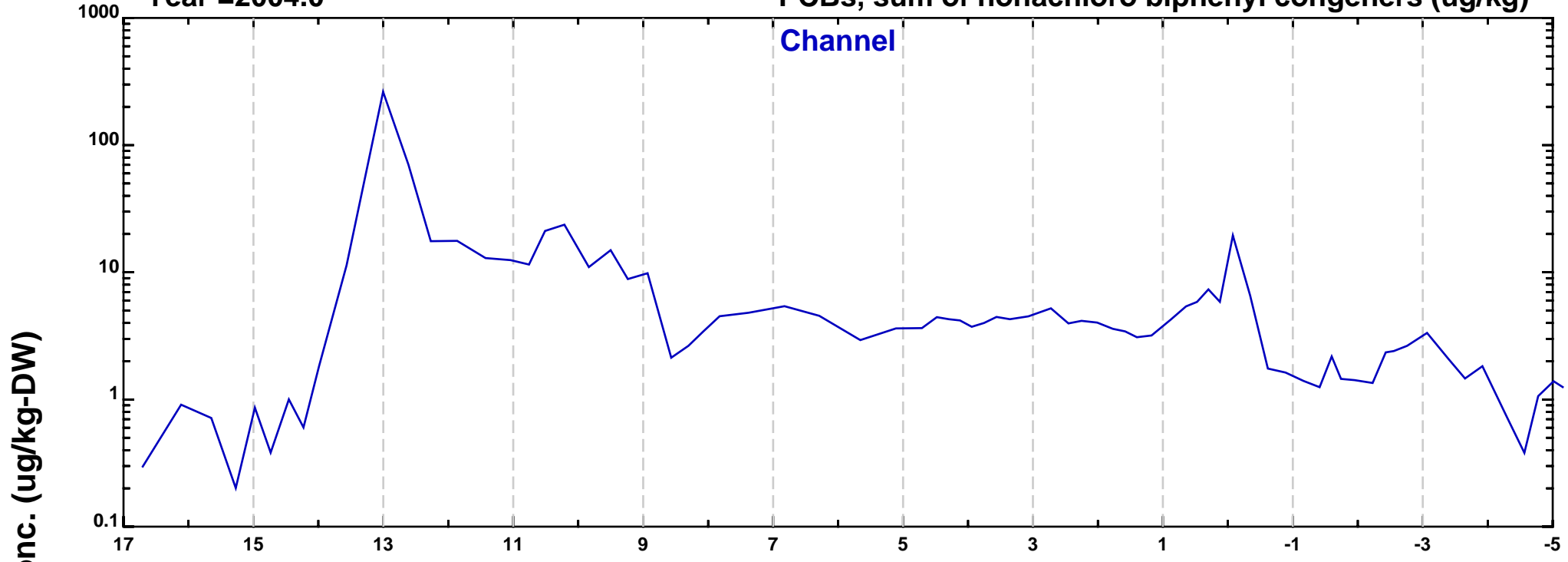
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



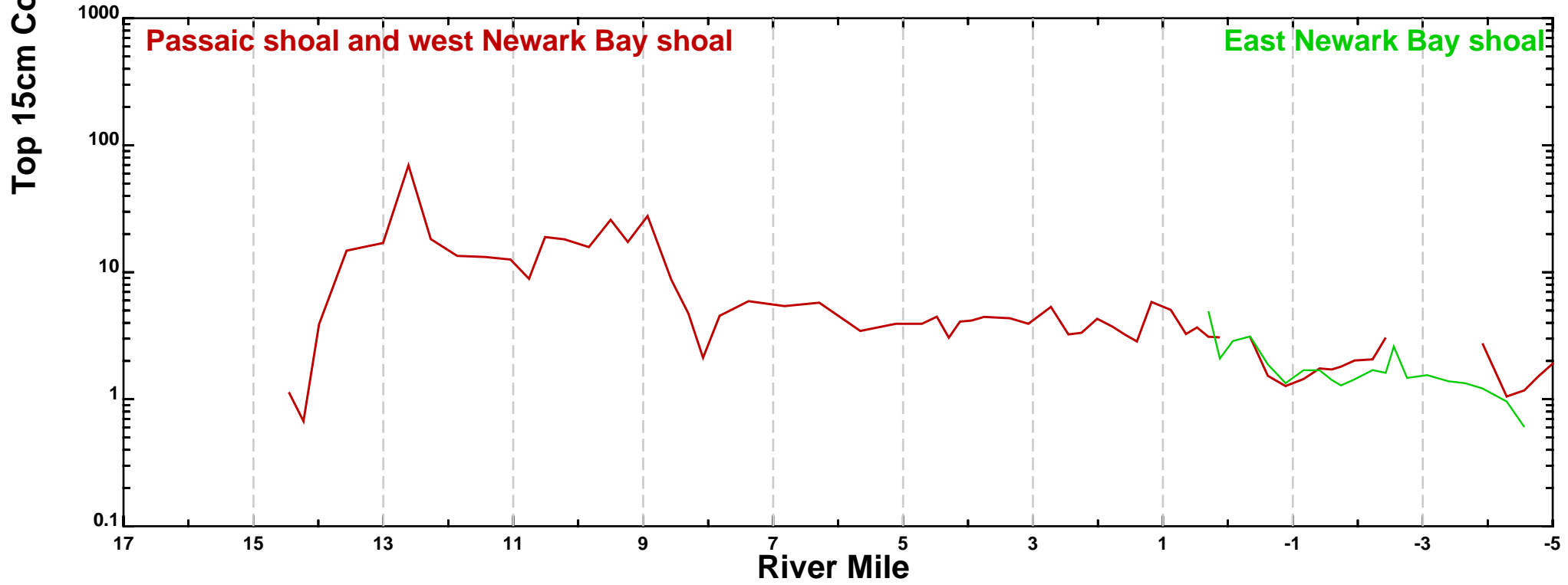
Year =2004.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



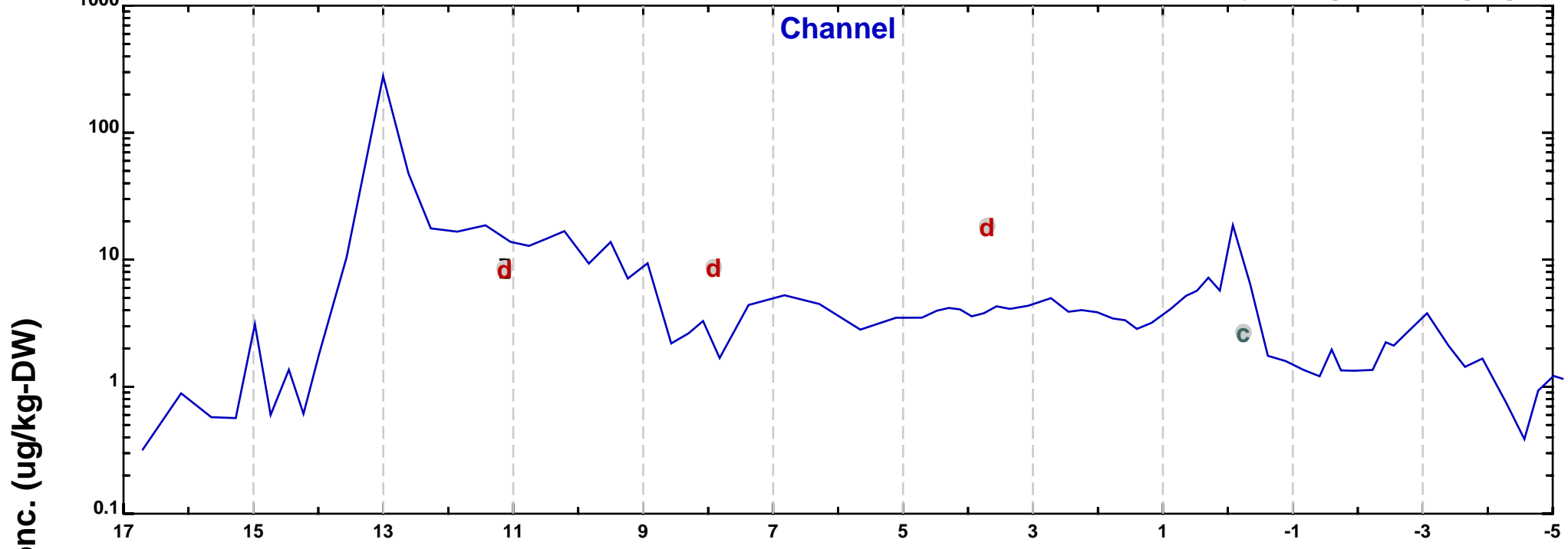
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



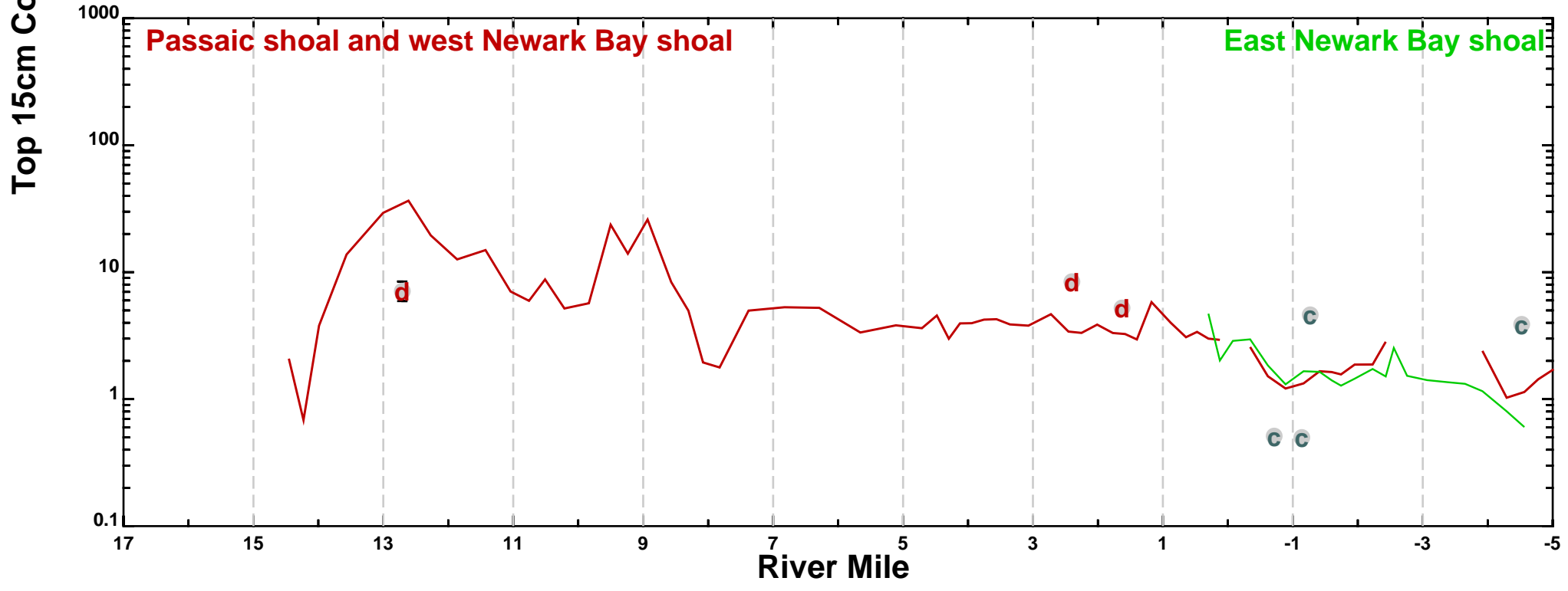
Year =2005.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

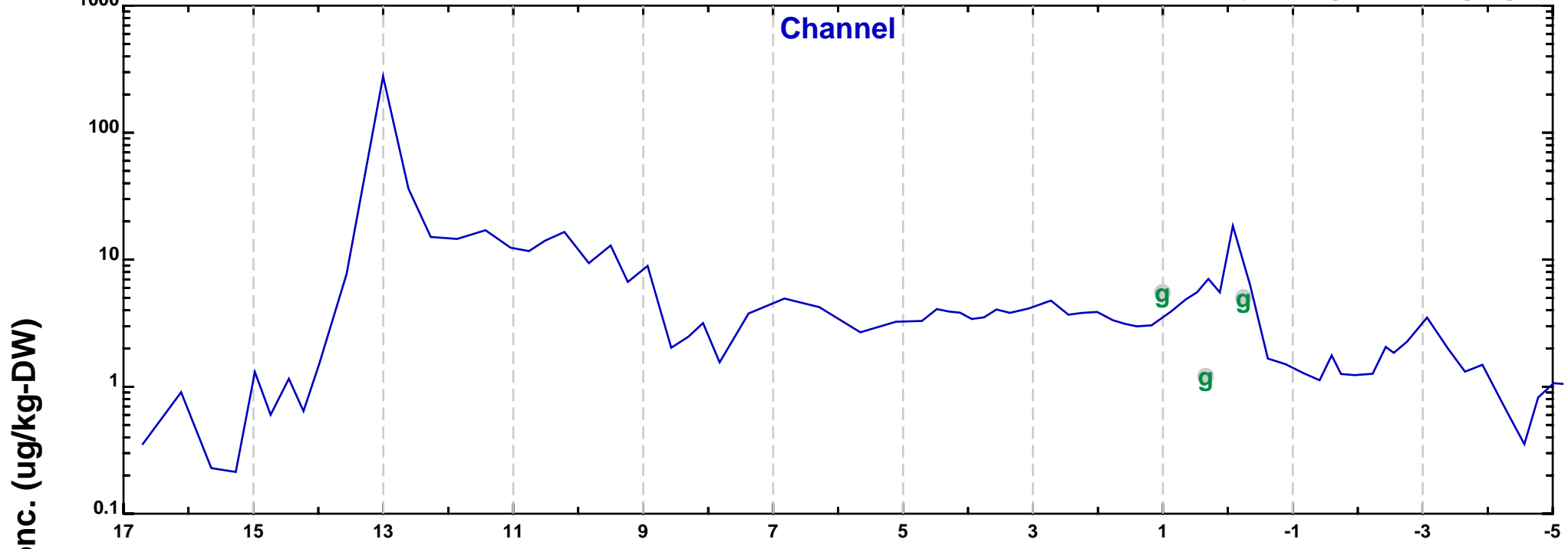
East Newark Bay shoal



River Mile

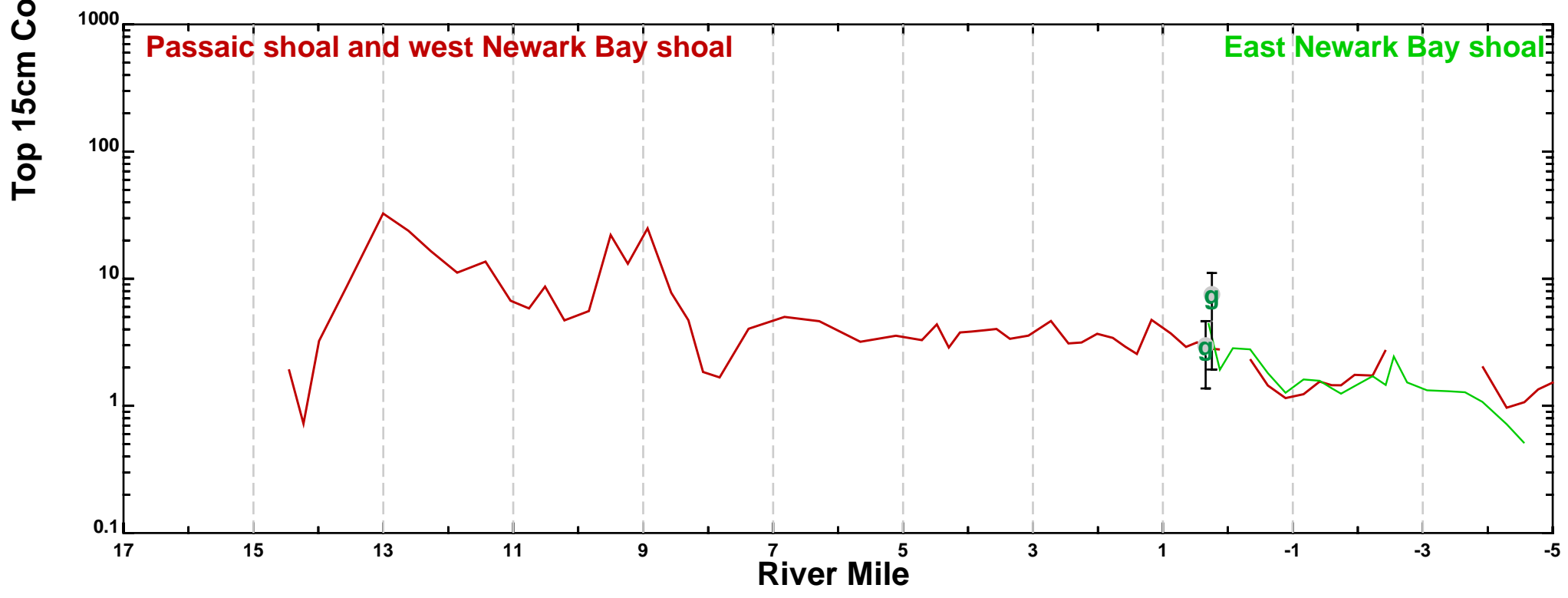
Year =2006.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



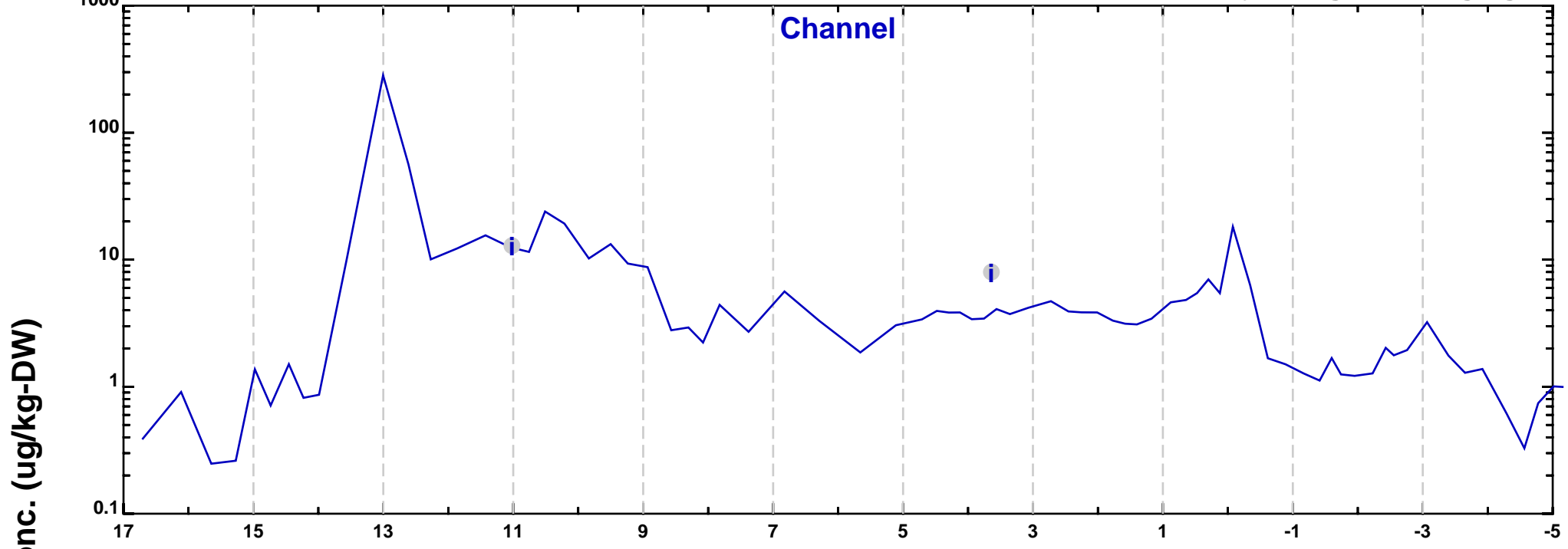
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



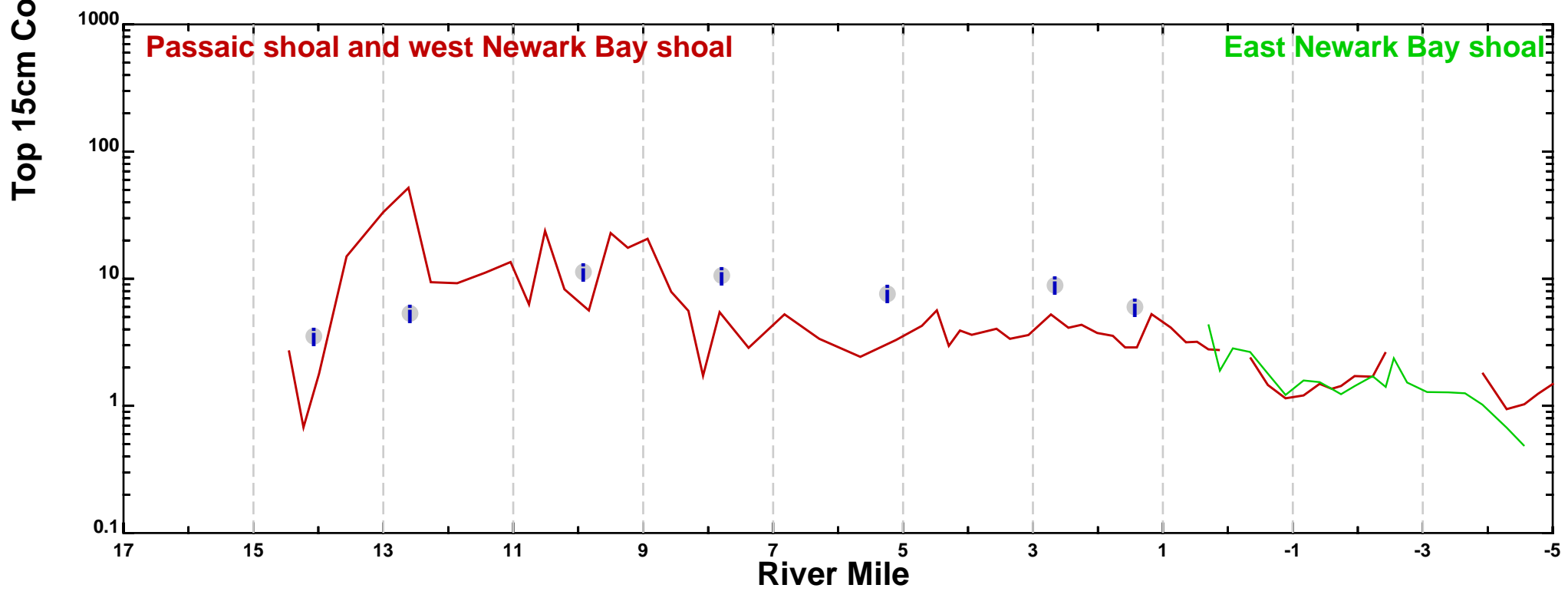
Year =2007.0

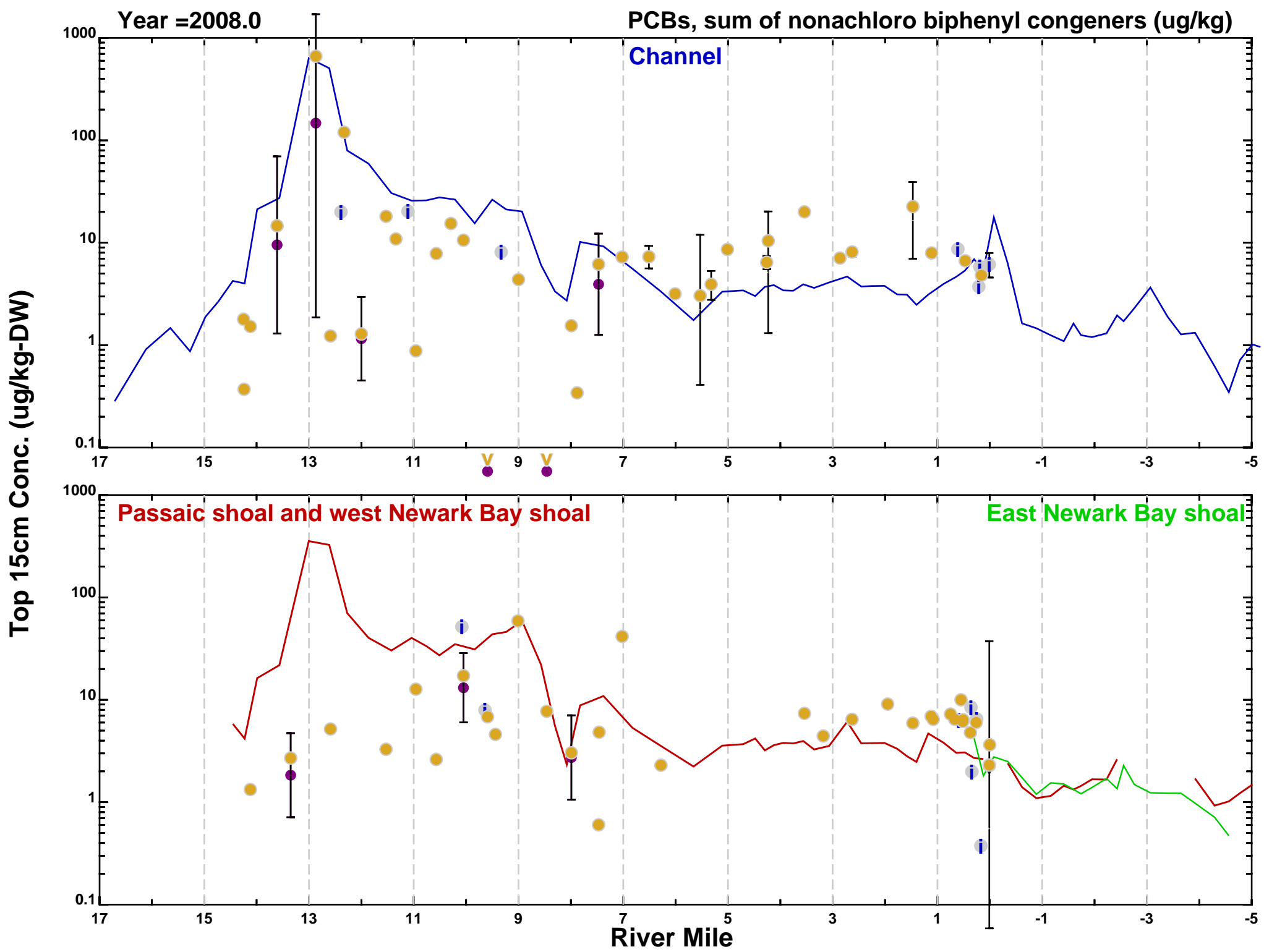
PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

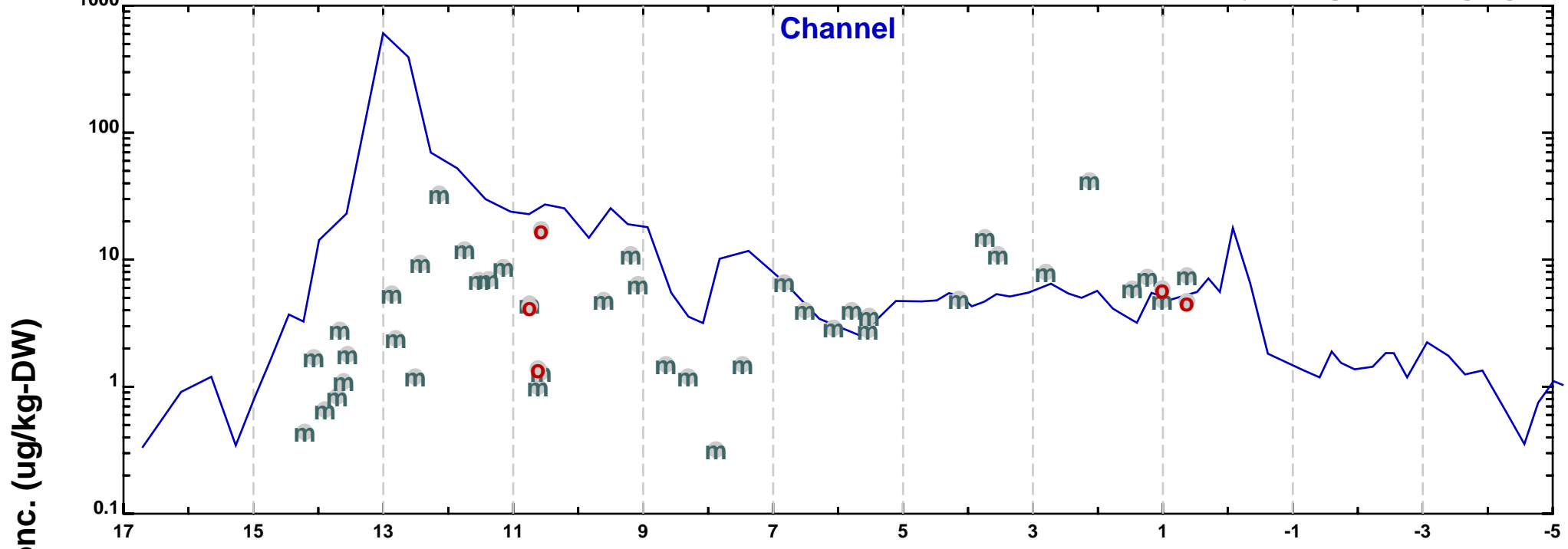
East Newark Bay shoal





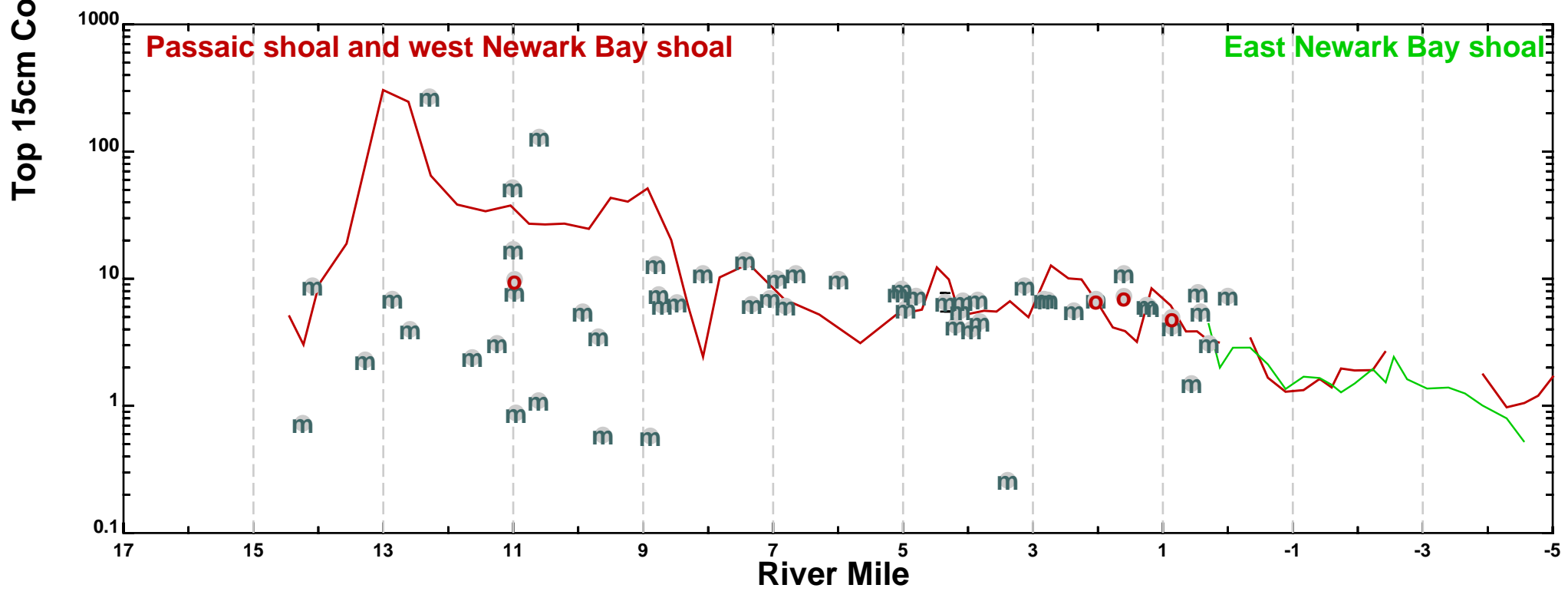
Year =2009.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



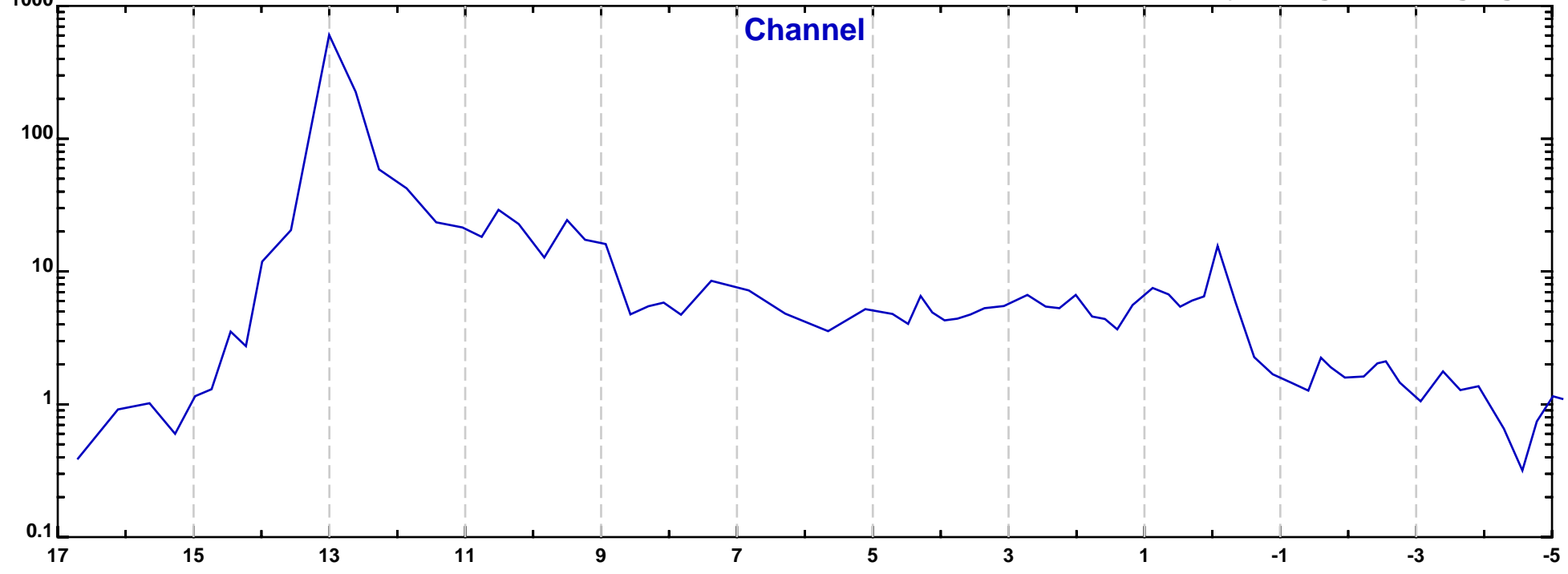


Year =2010.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)

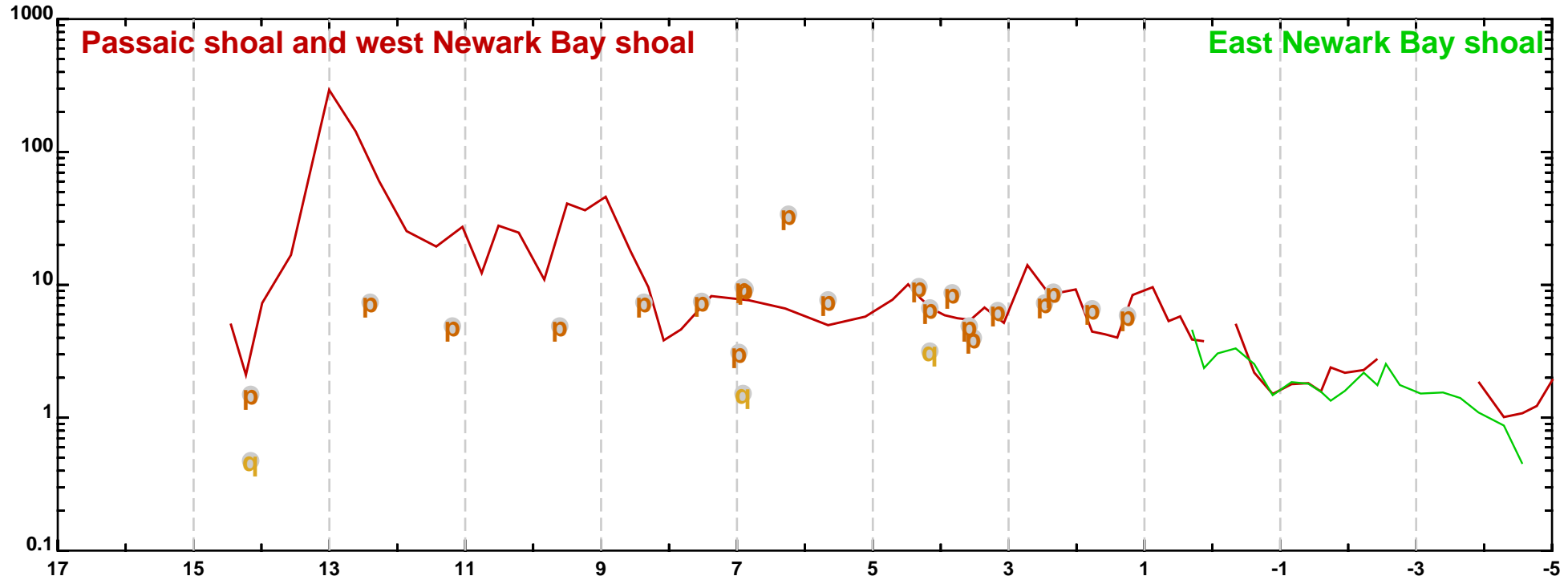
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

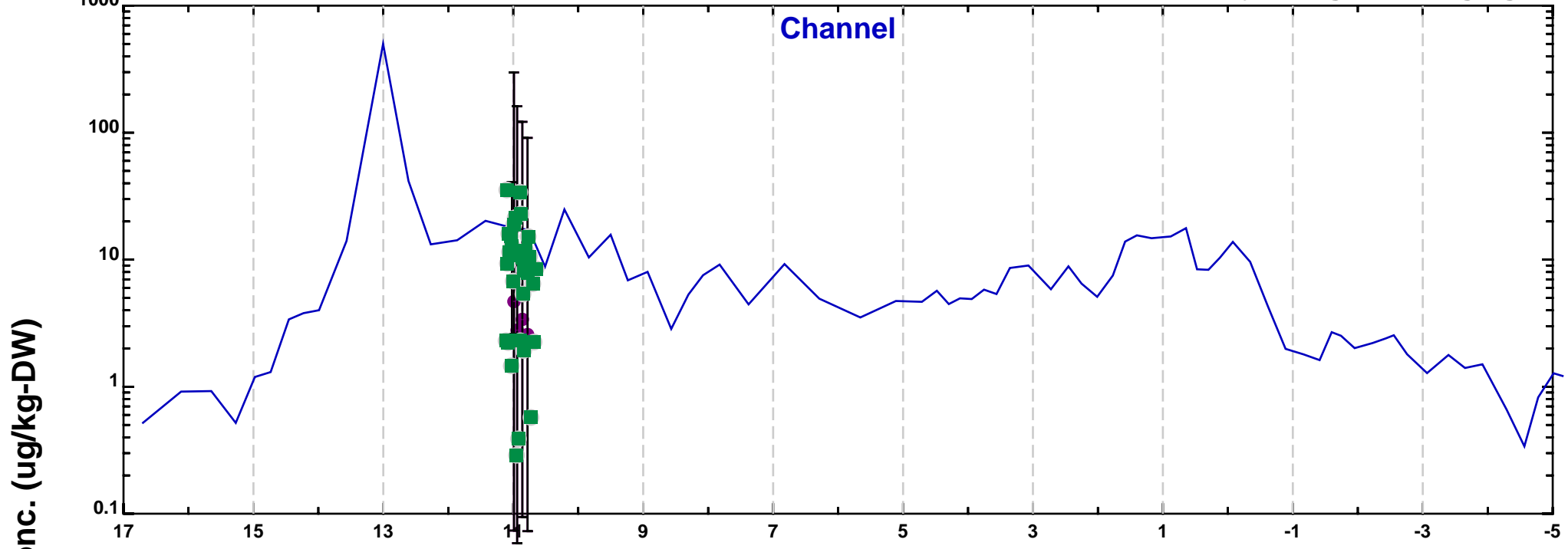
East Newark Bay shoal



River Mile

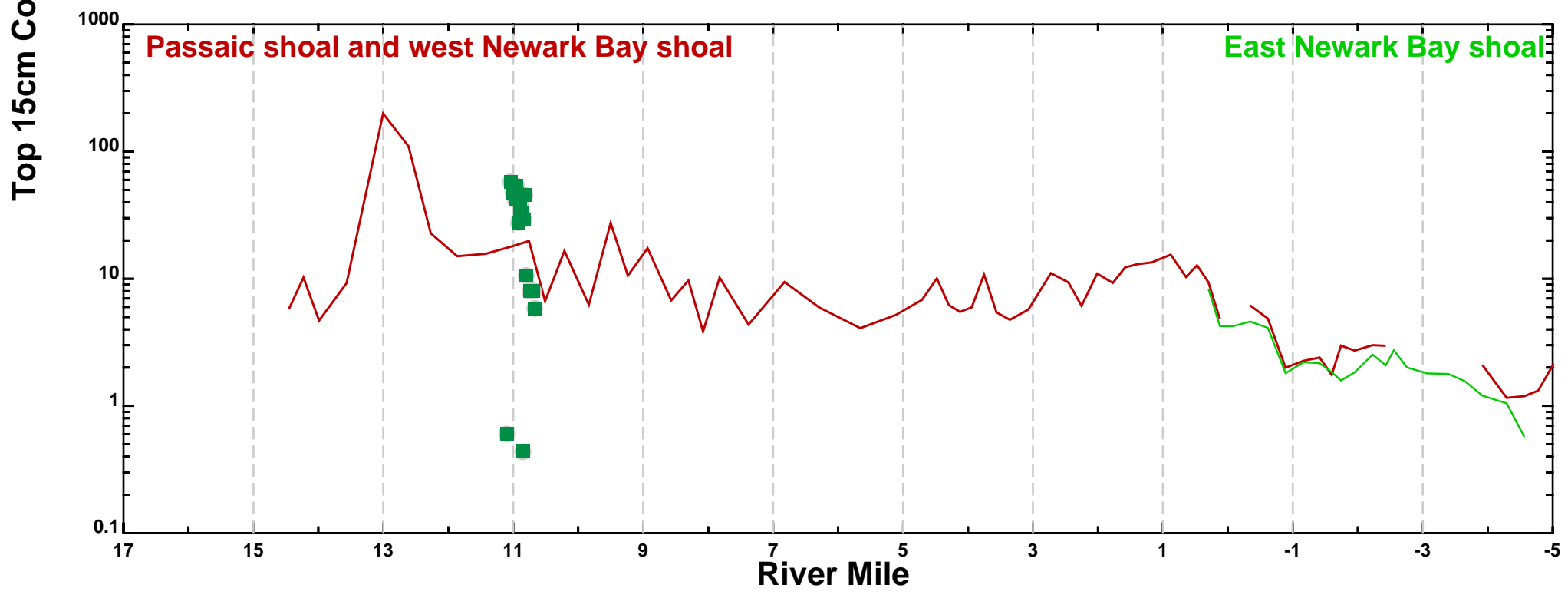
Year =2011.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

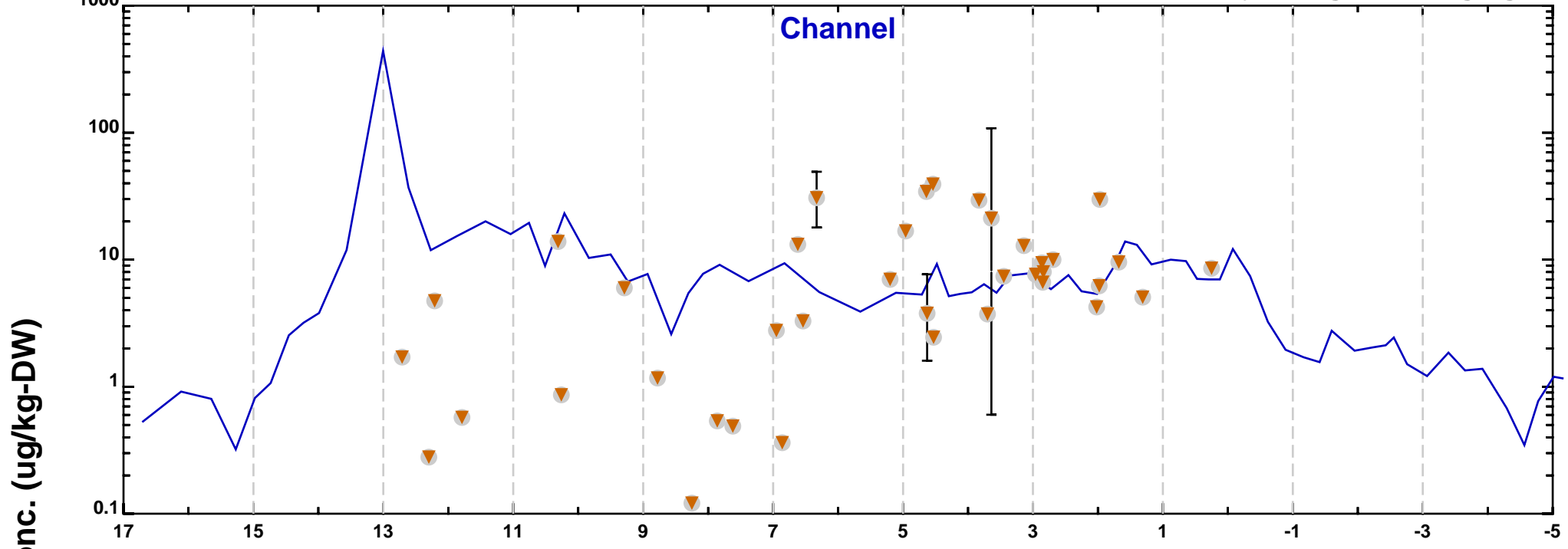
East Newark Bay shoal



River Mile

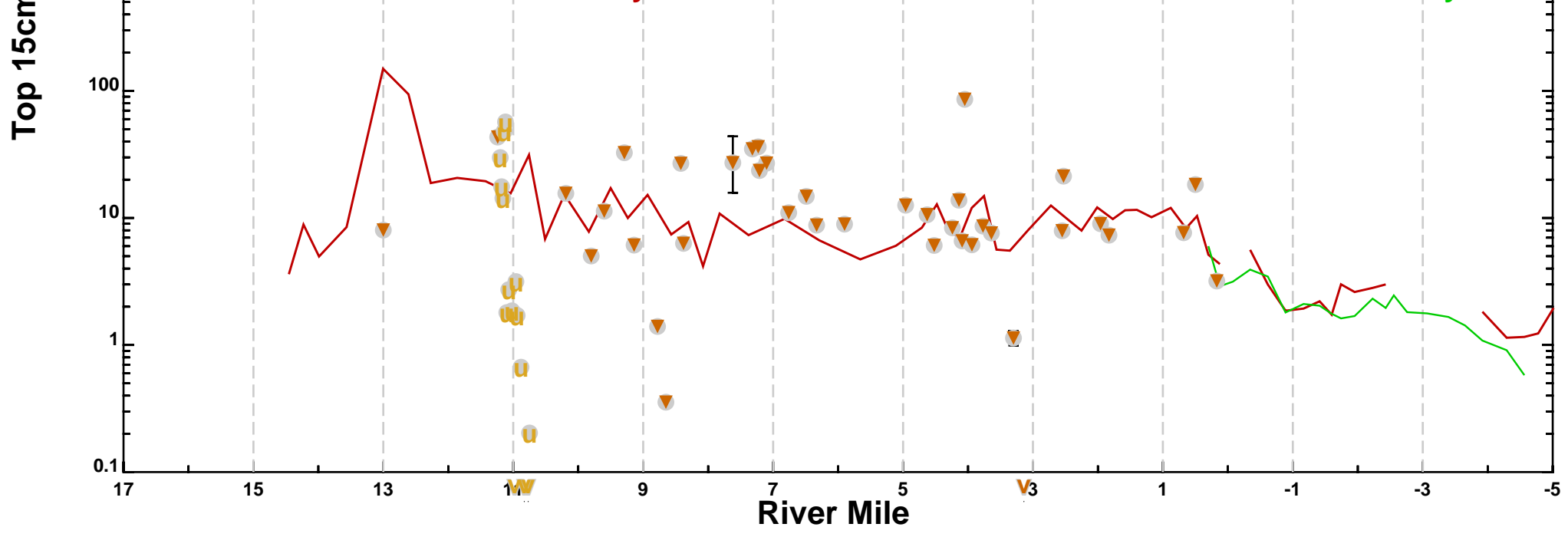
Year =2012.0

PCBs, sum of nonachloro biphenyl congeners (ug/kg)



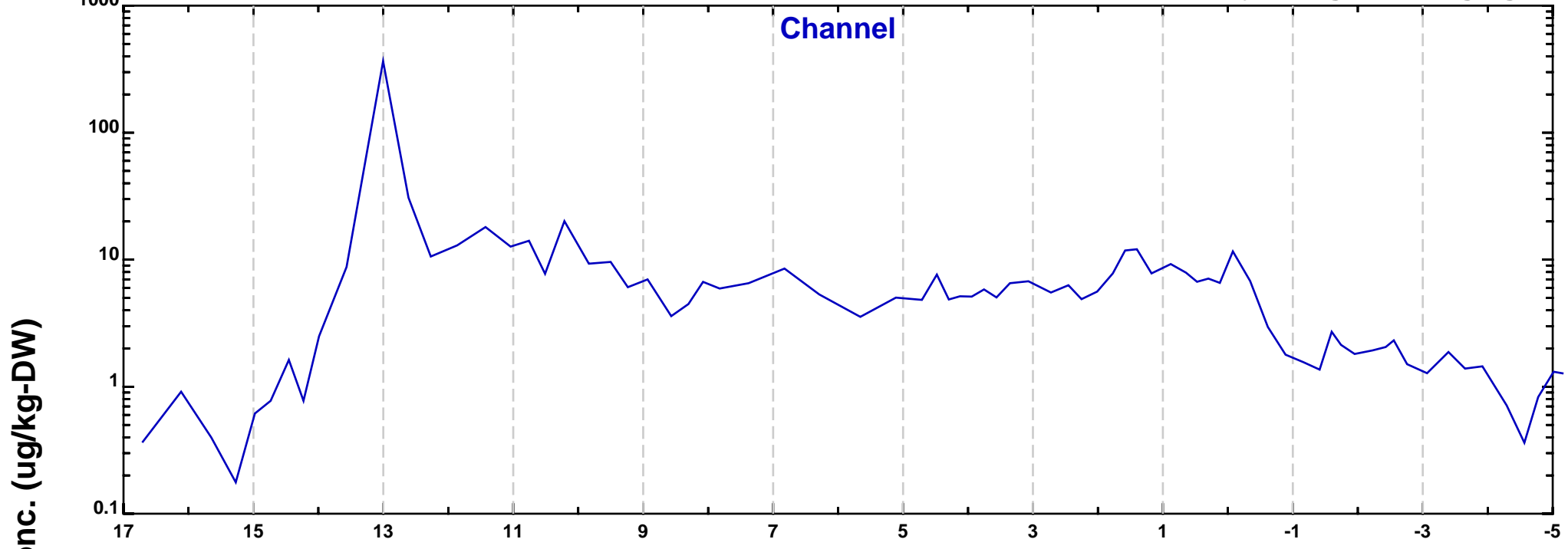
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



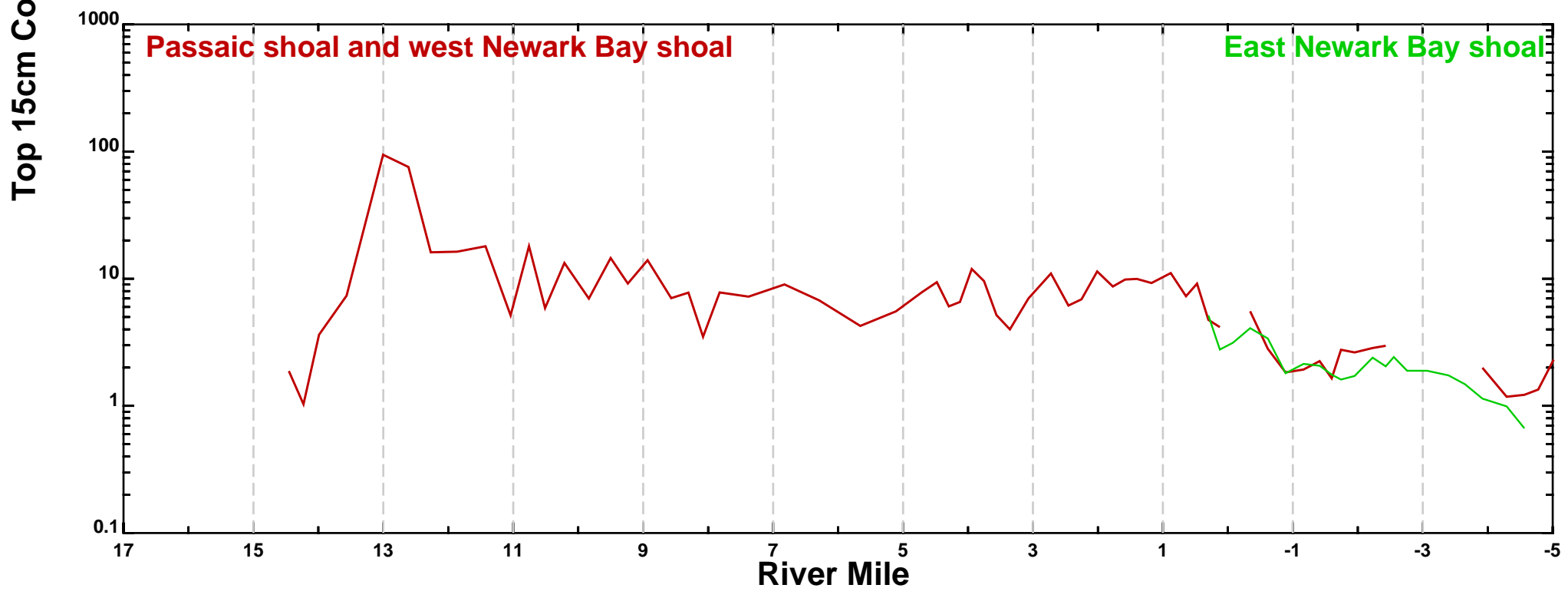
Year = 2013.0

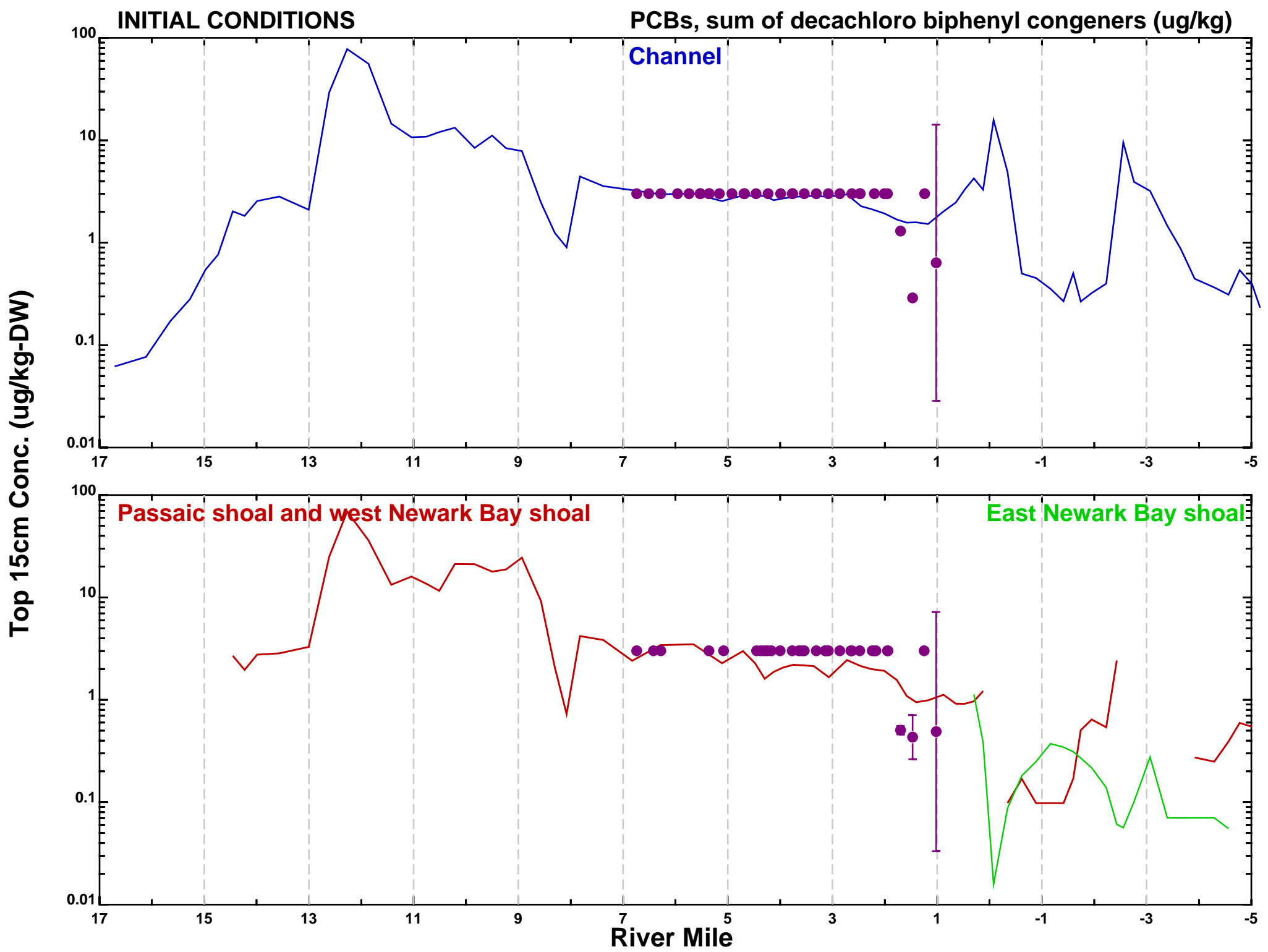
PCBs, sum of nonachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

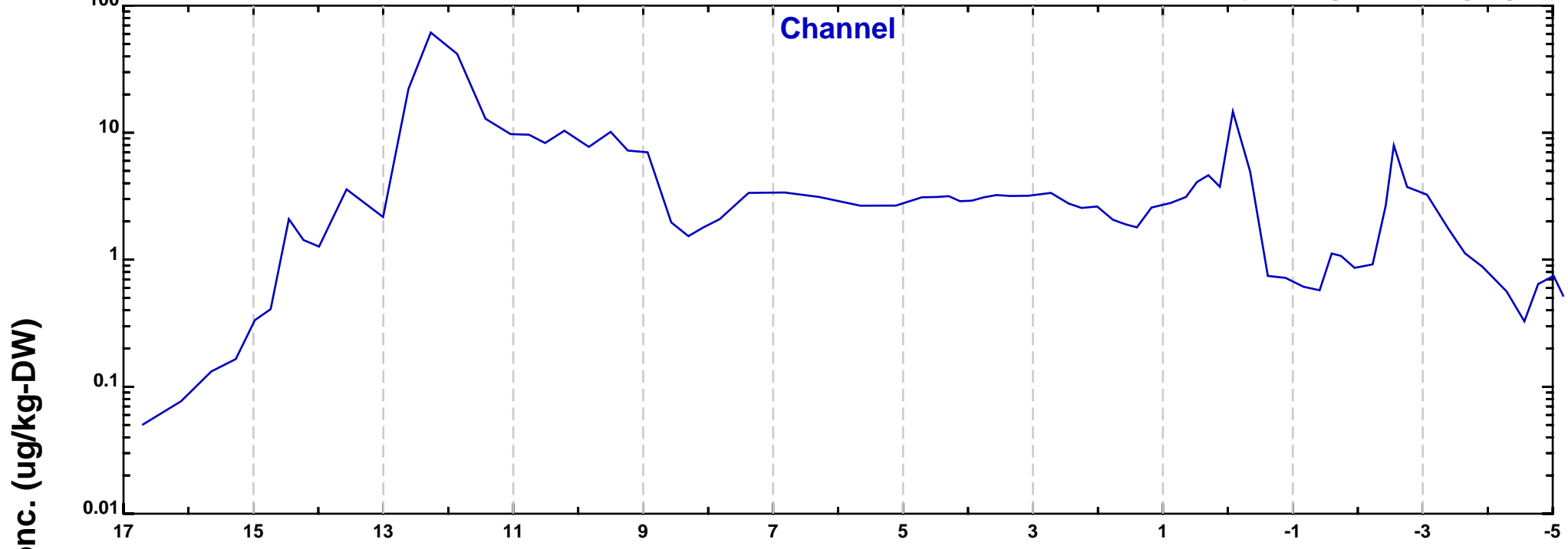
East Newark Bay shoal





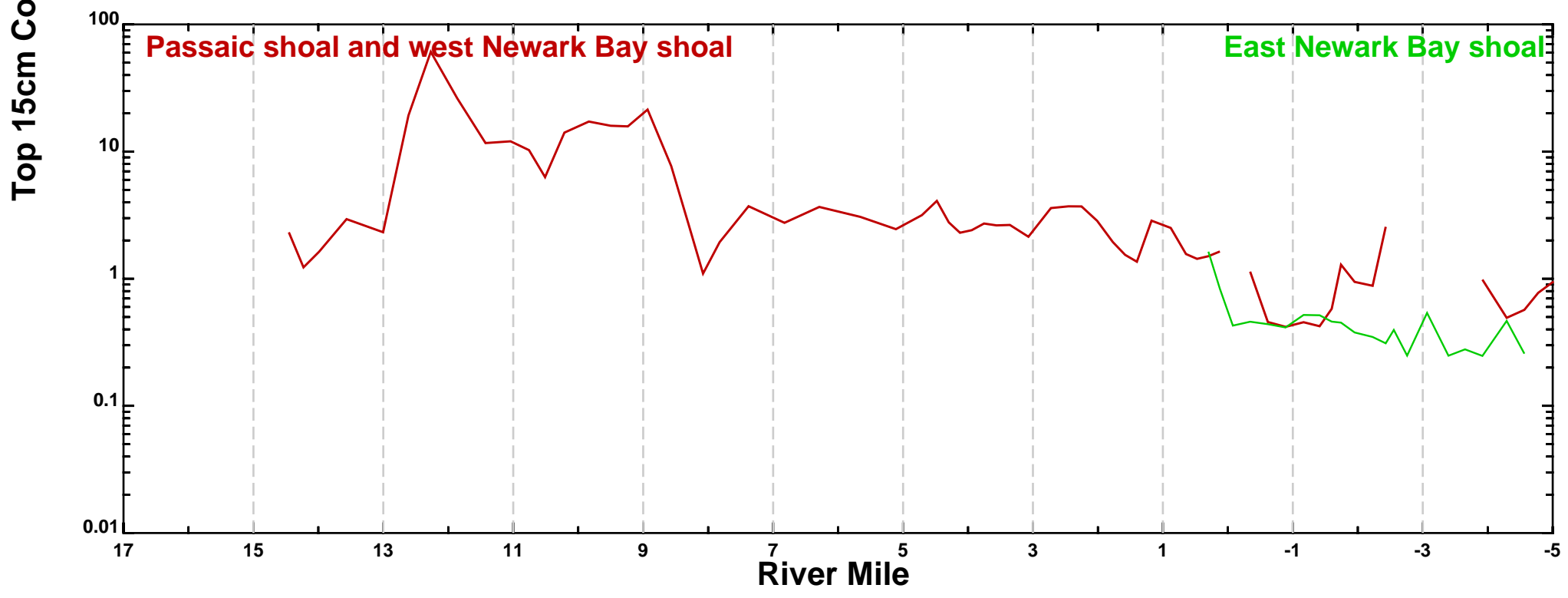
Year =1996.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



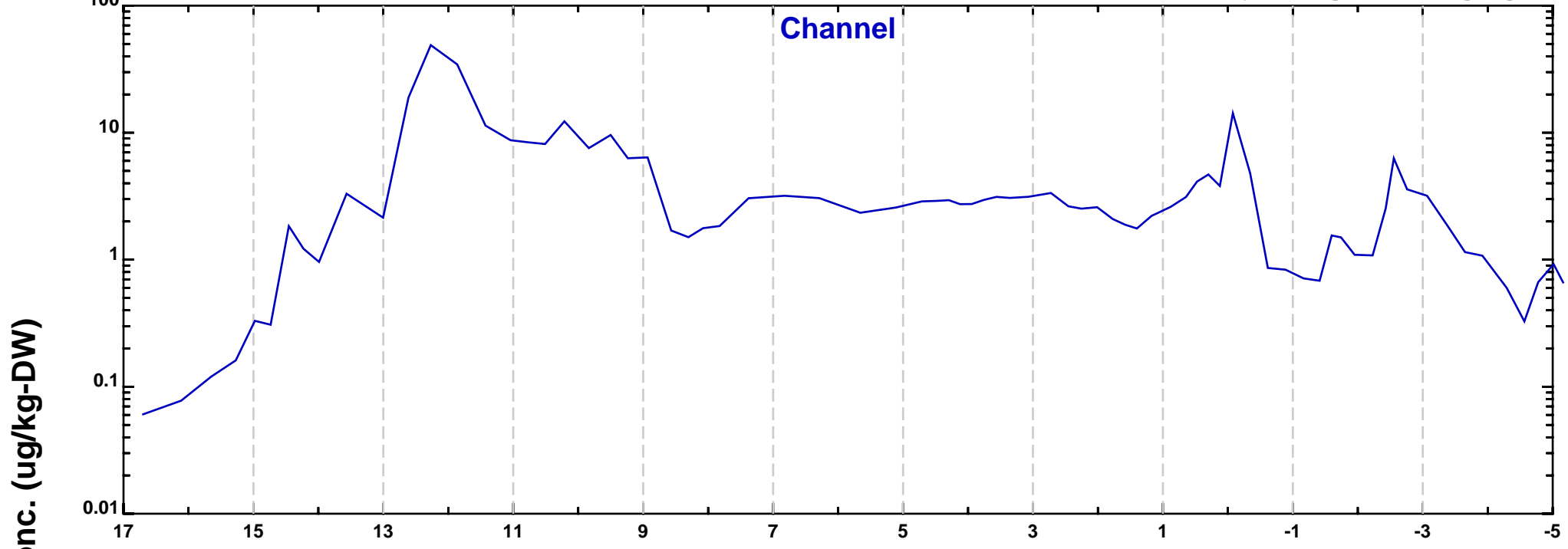
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



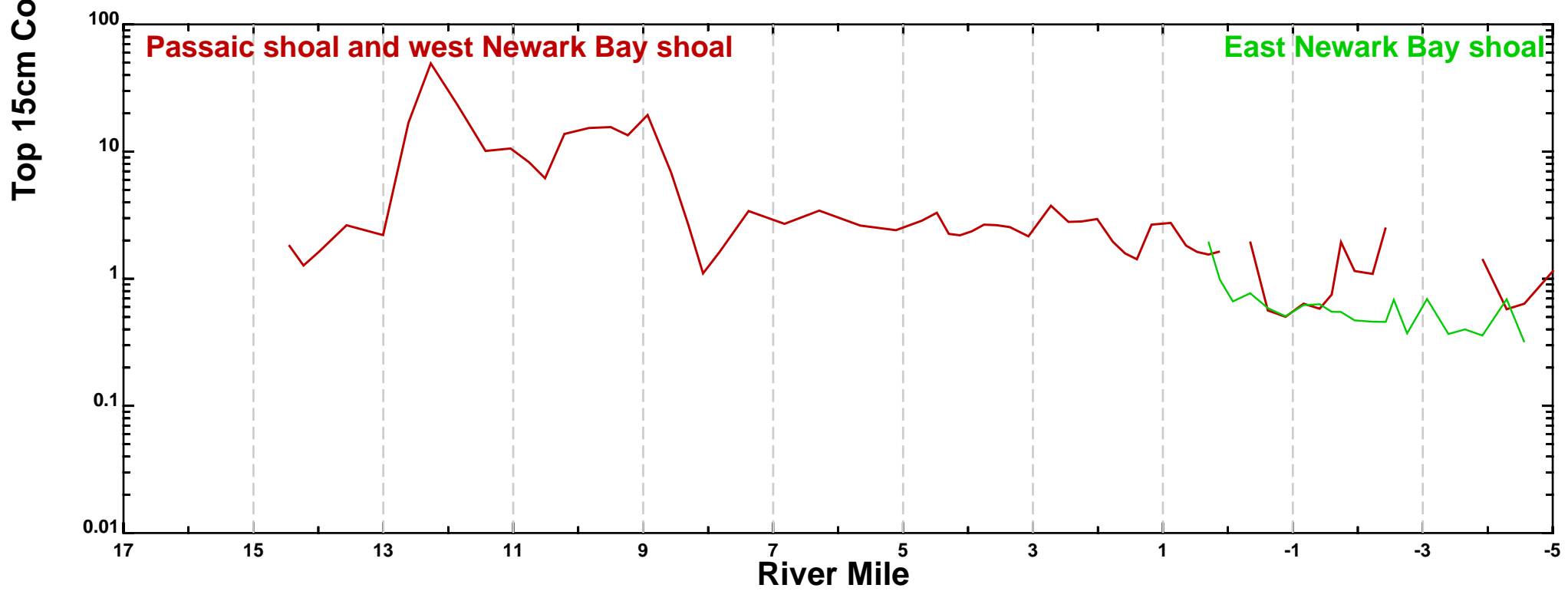
Year = 1997.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

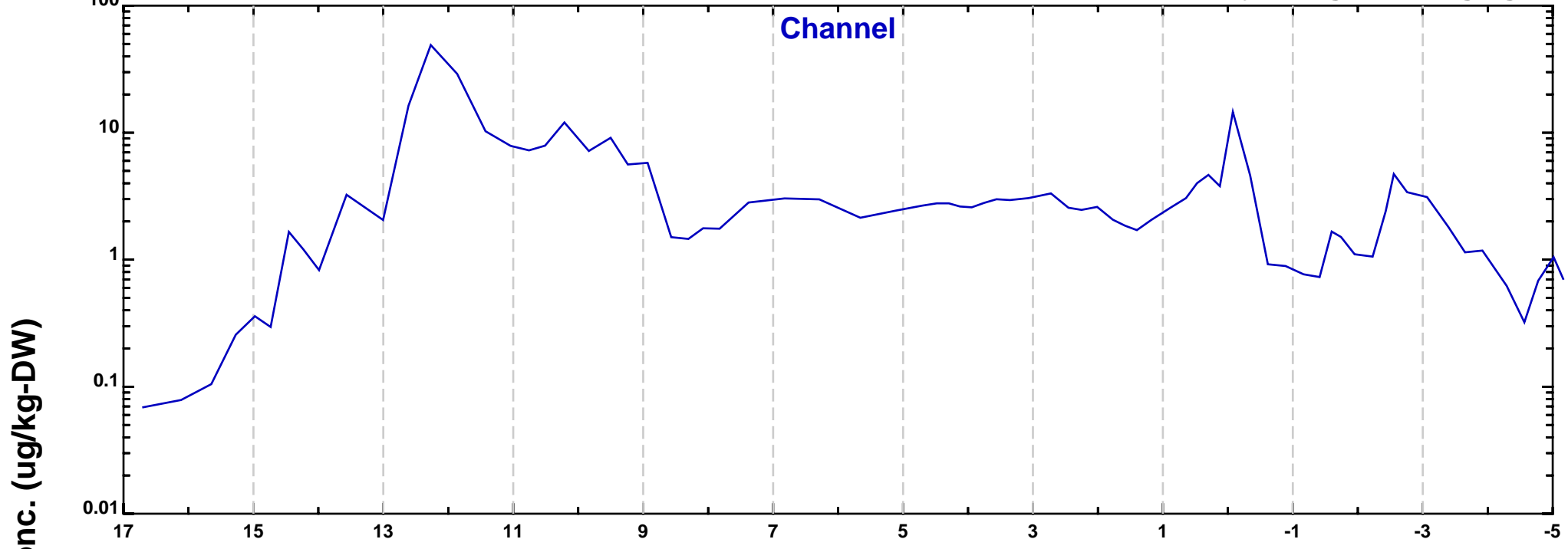
East Newark Bay shoal



River Mile

Year =1998.0

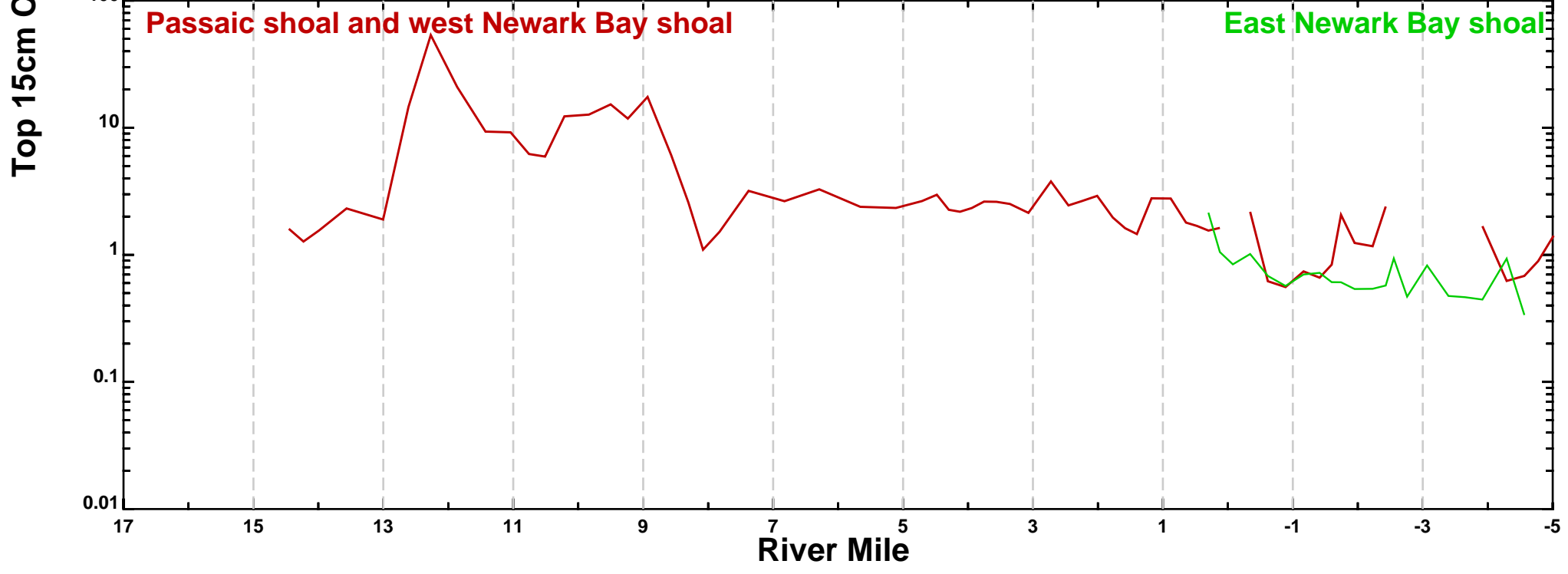
PCBs, sum of decachloro biphenyl congeners (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



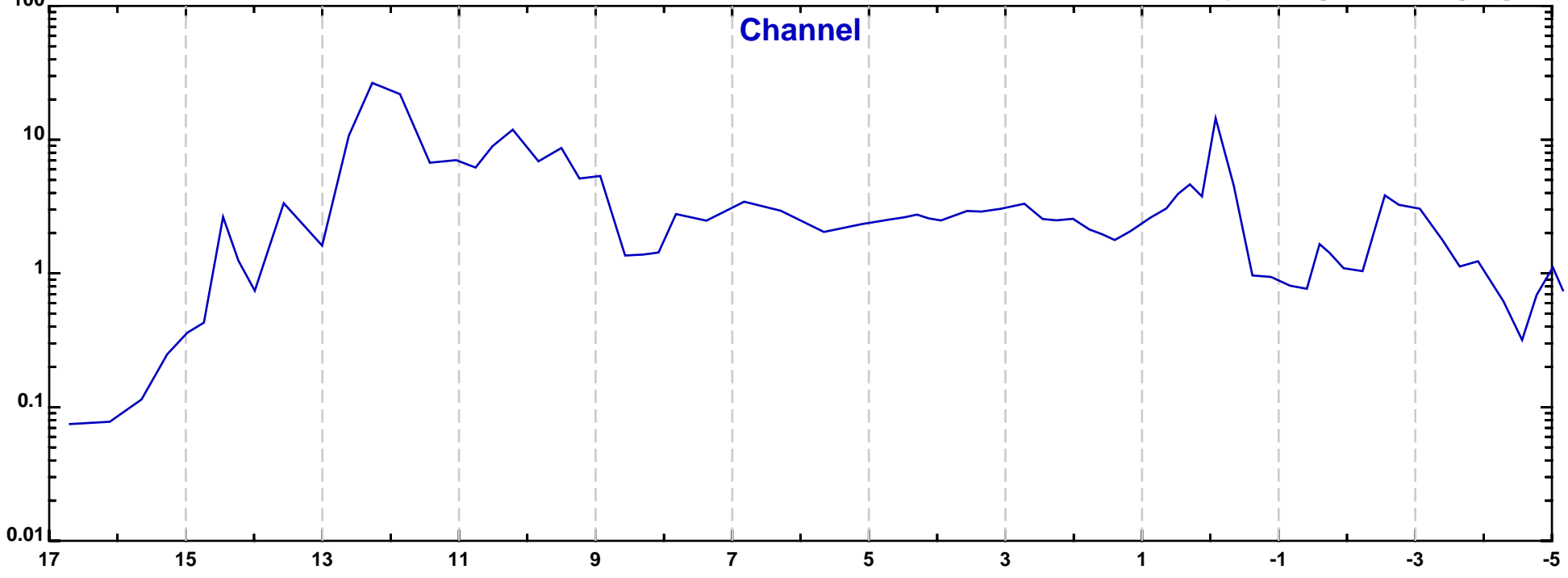
River Mile



Year =1999.0

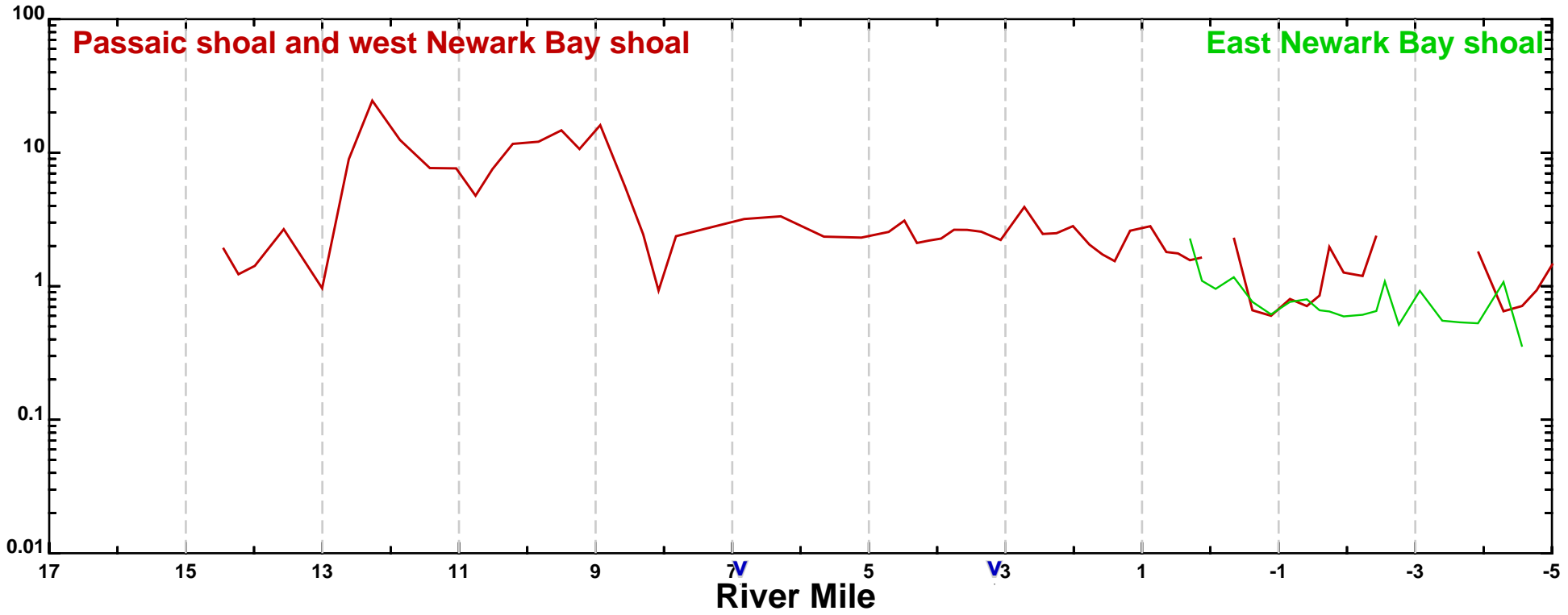
PCBs, sum of decachloro biphenyl congeners (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

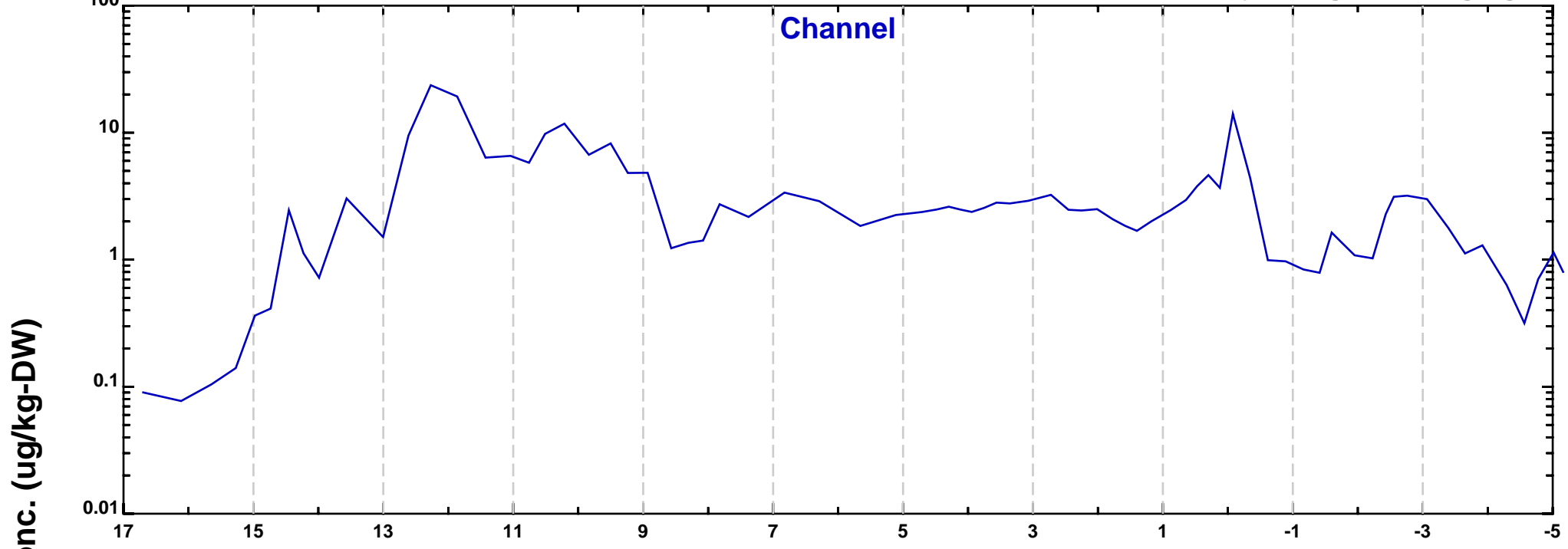
East Newark Bay shoal



River Mile

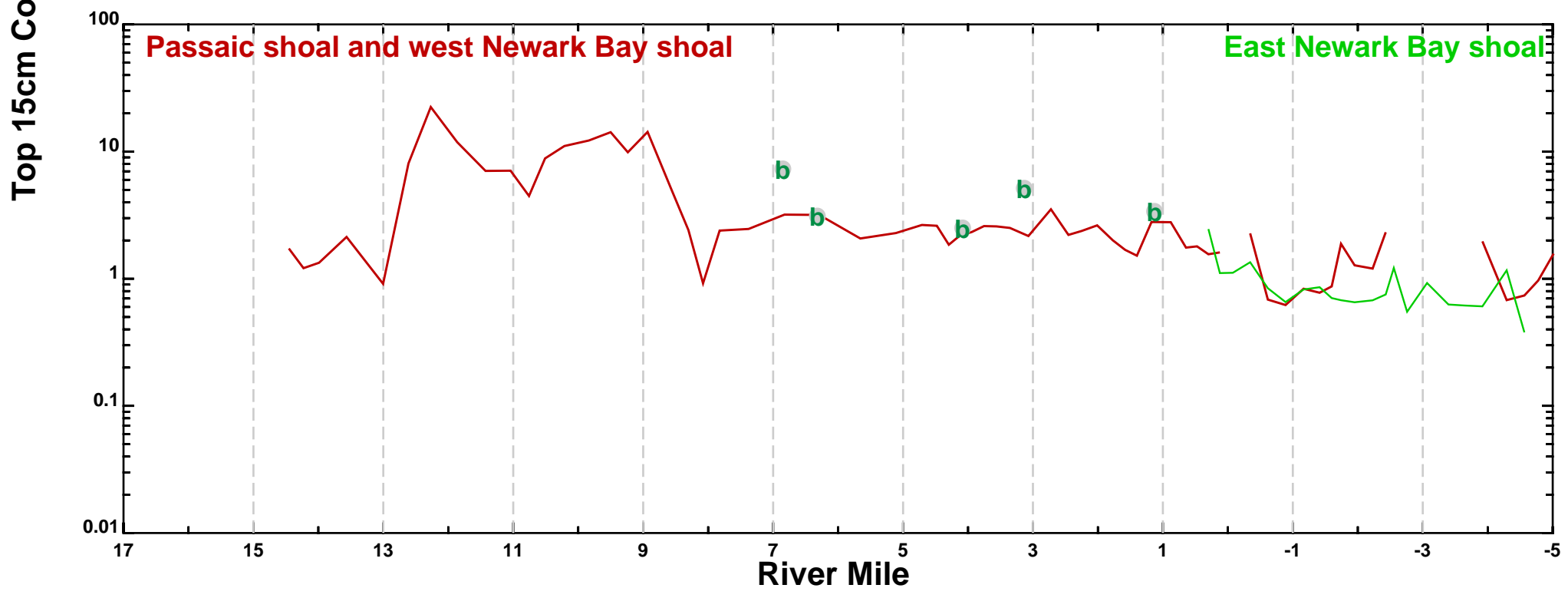
Year =2000.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

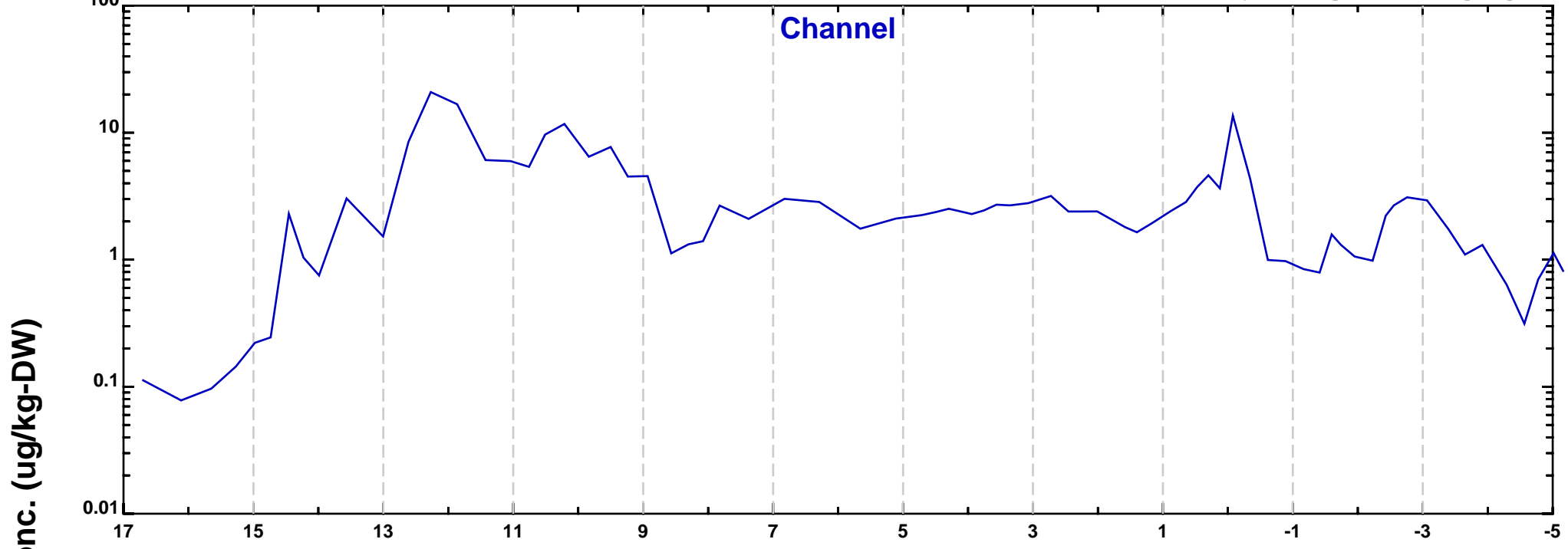
East Newark Bay shoal



River Mile

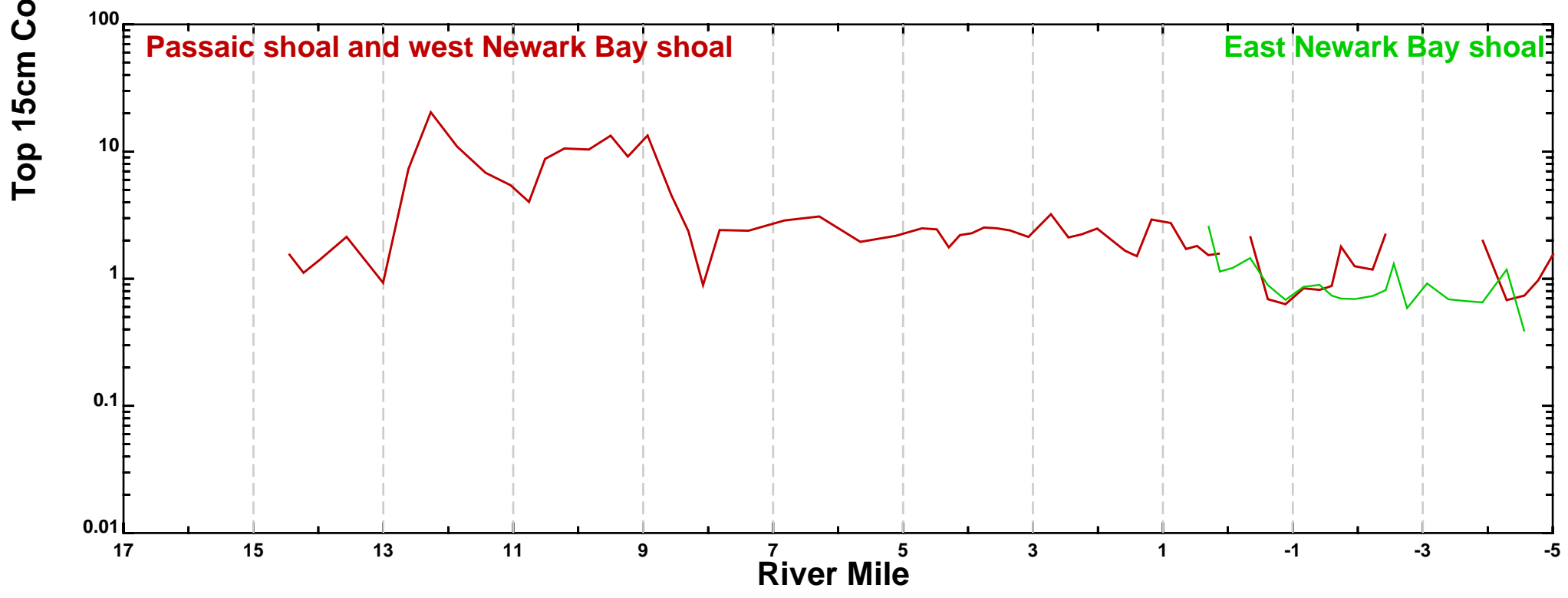
Year =2001.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



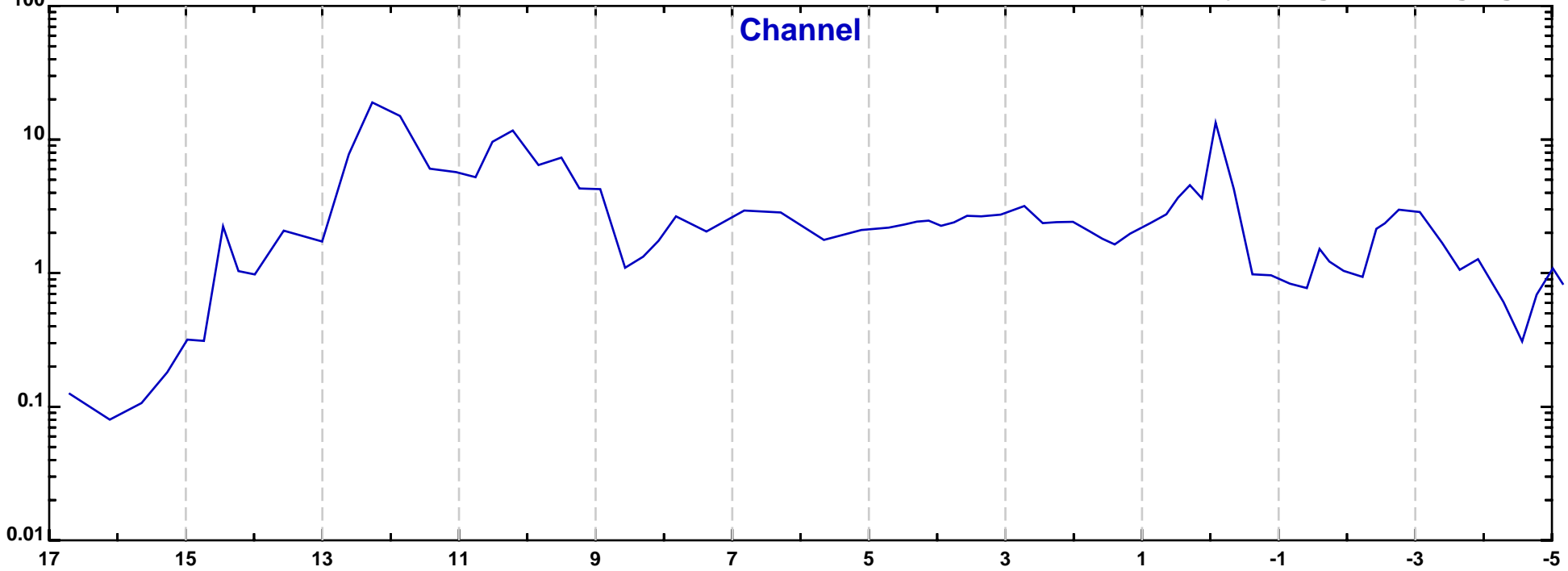
River Mile

Year =2002.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

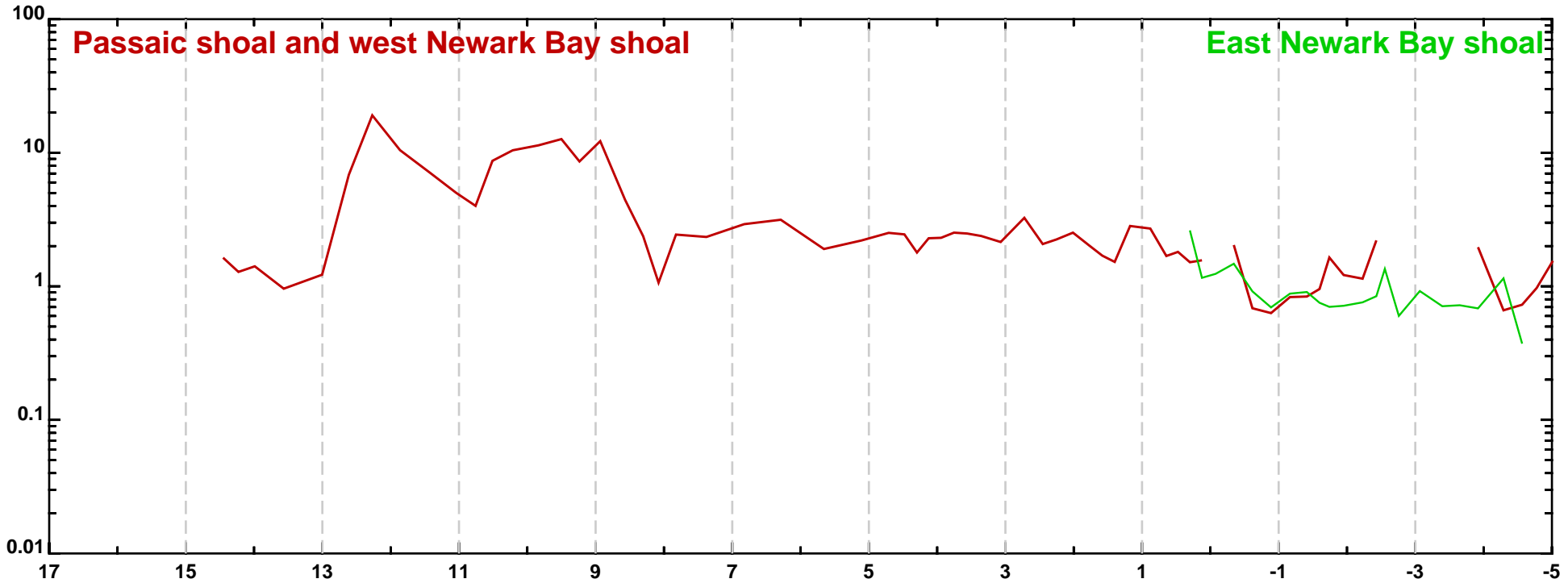
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

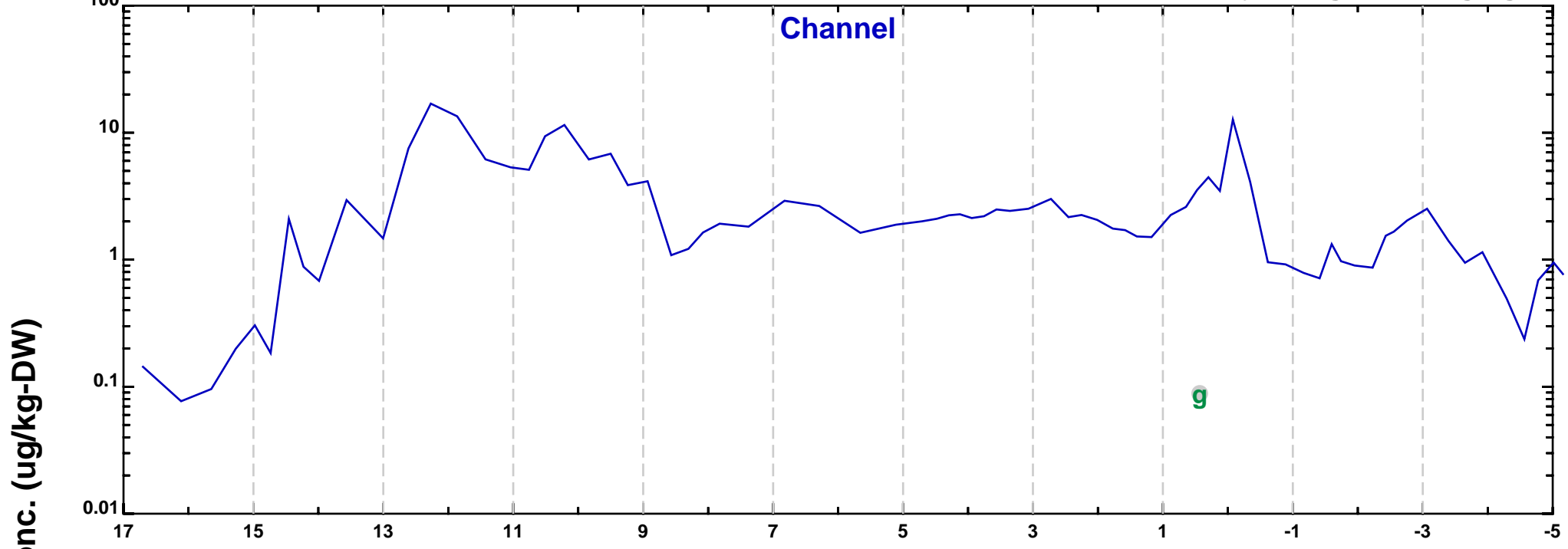
East Newark Bay shoal



River Mile

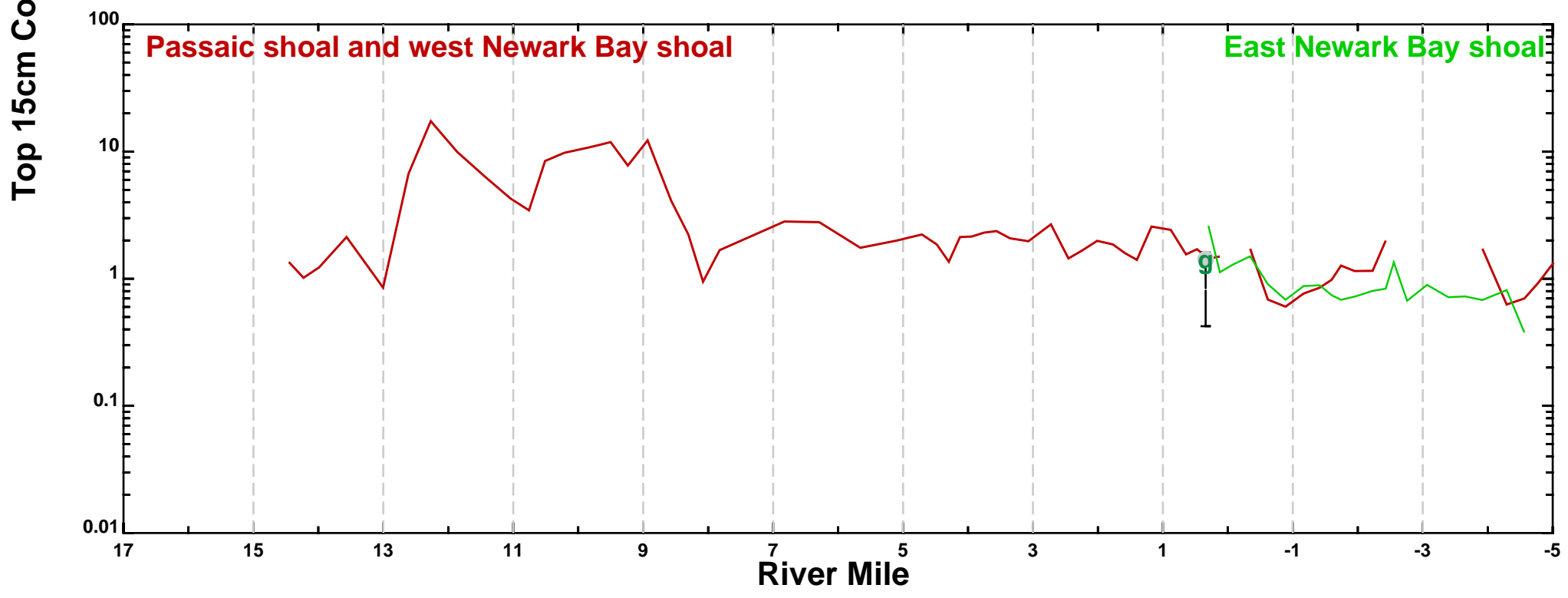
Year =2003.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

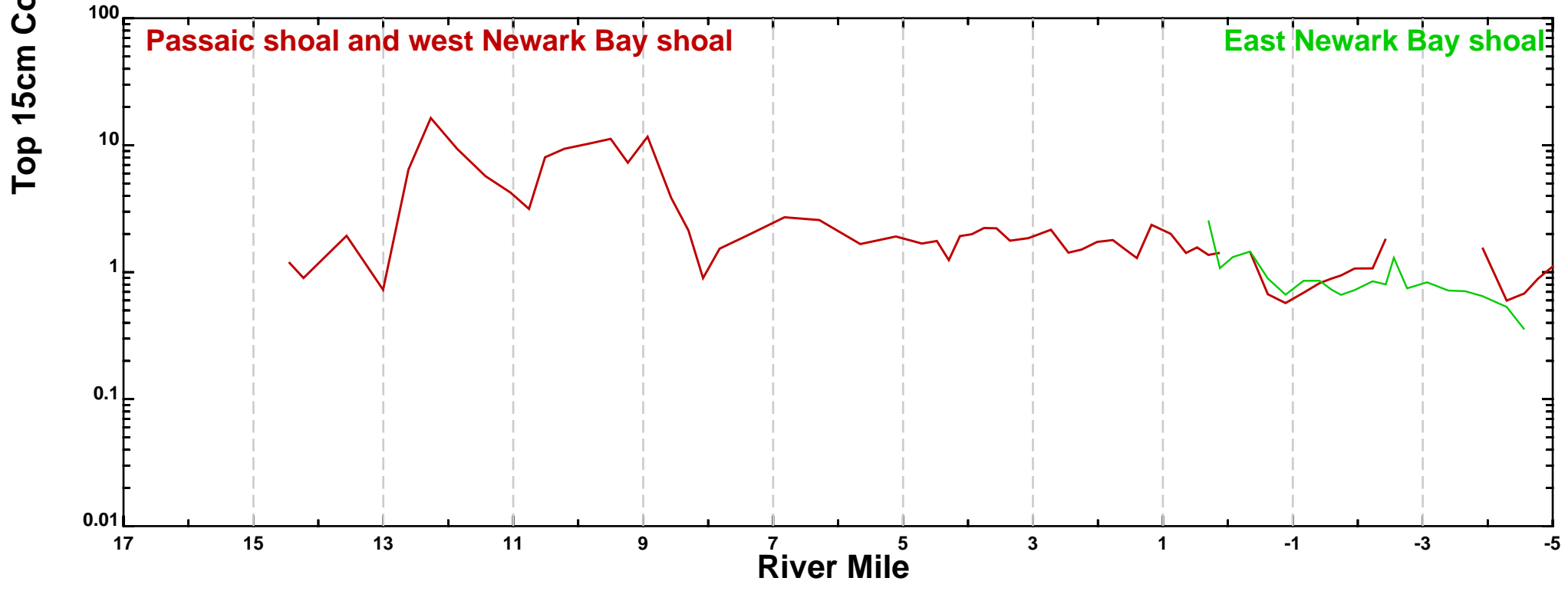
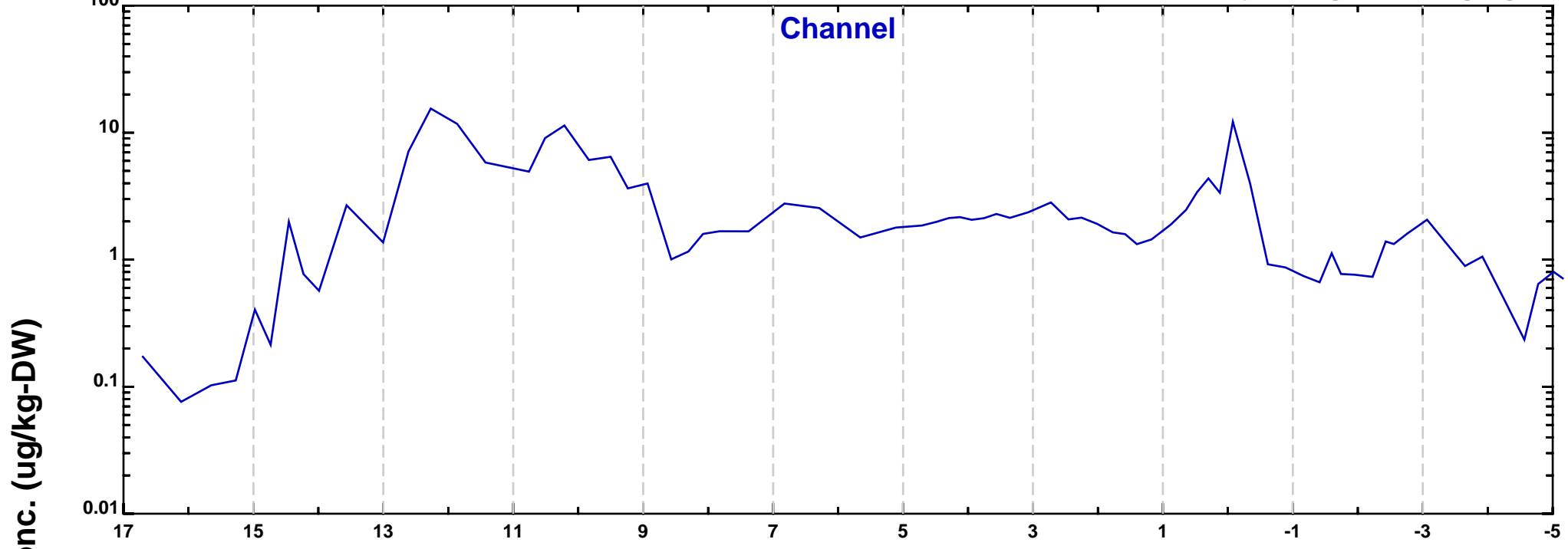
East Newark Bay shoal



River Mile

Year =2004.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

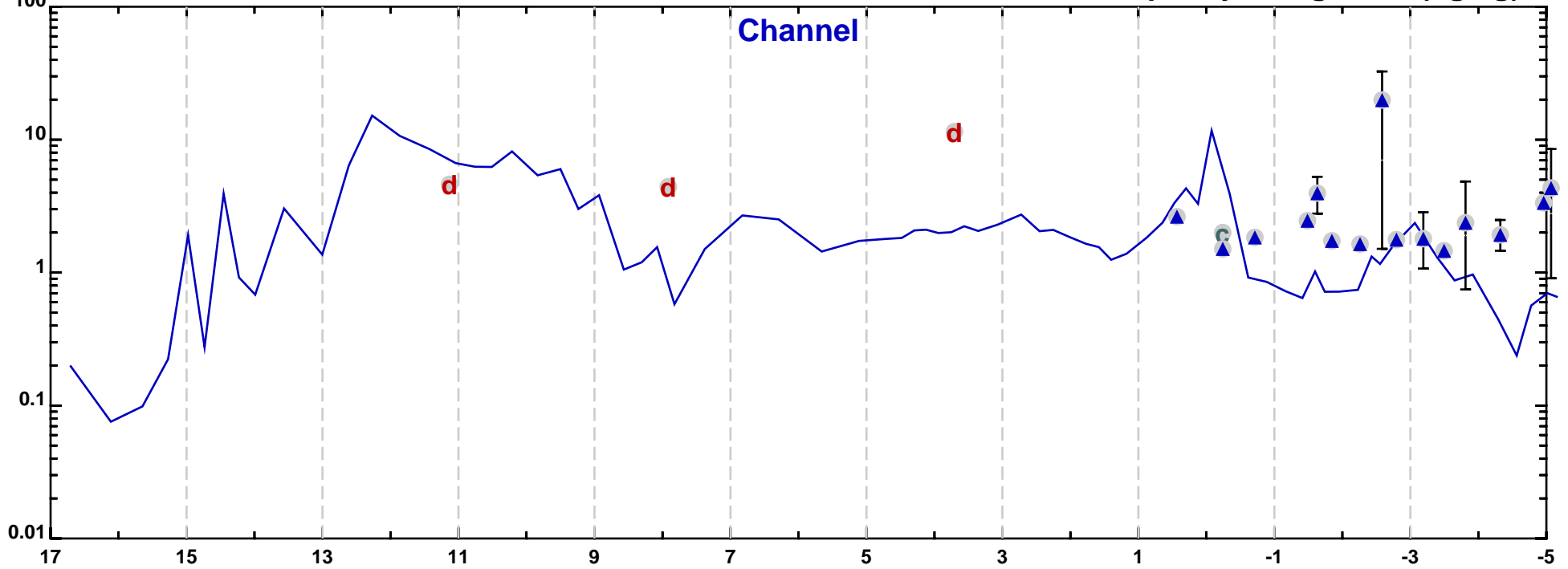


Year =2005.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

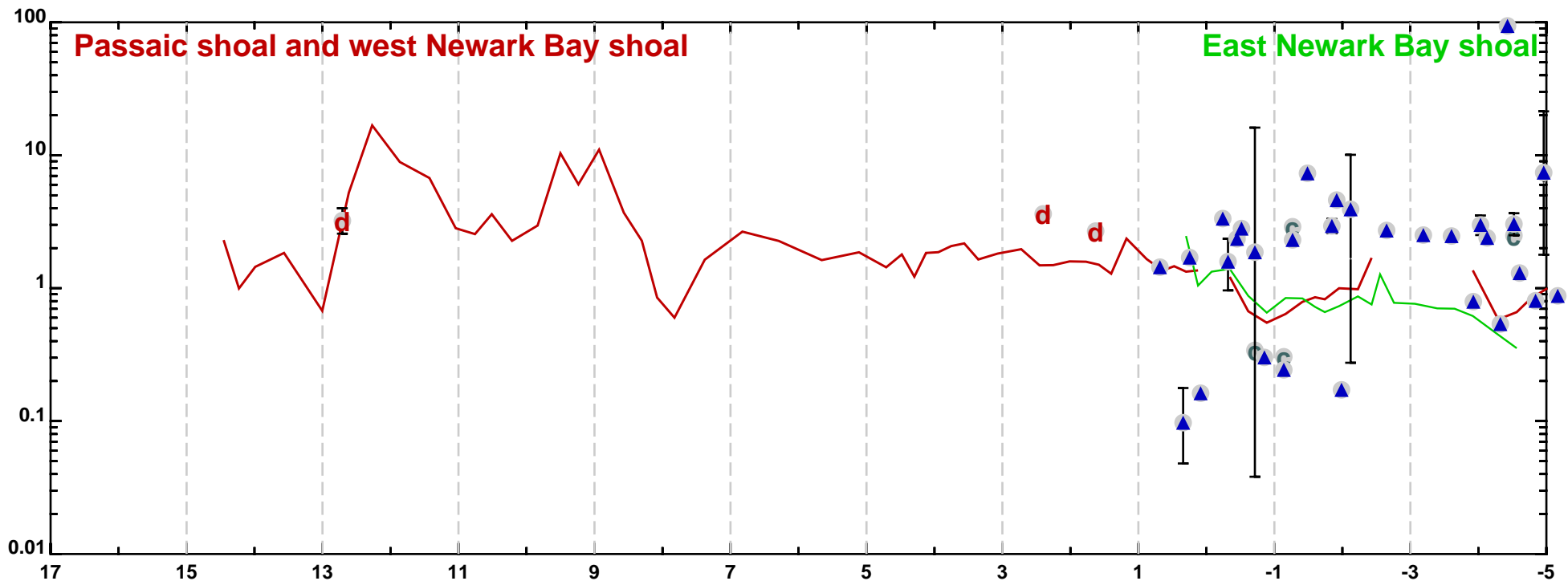
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



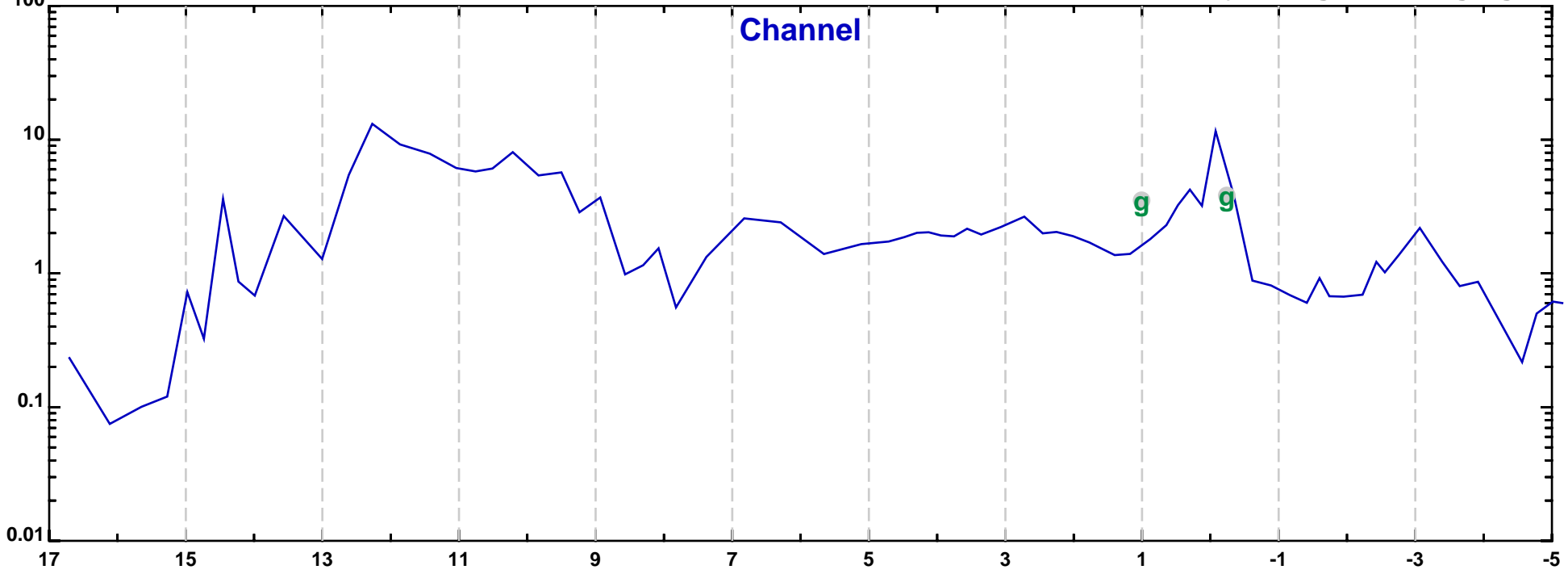
River Mile

Year =2006.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

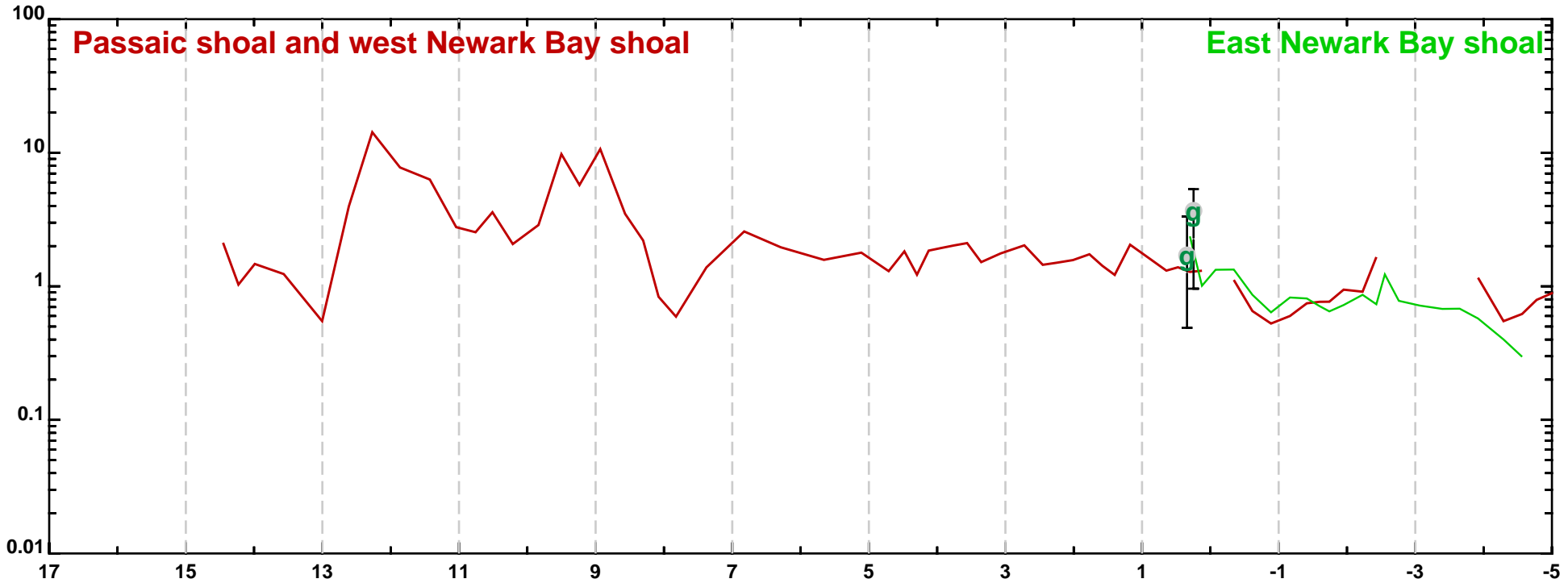
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

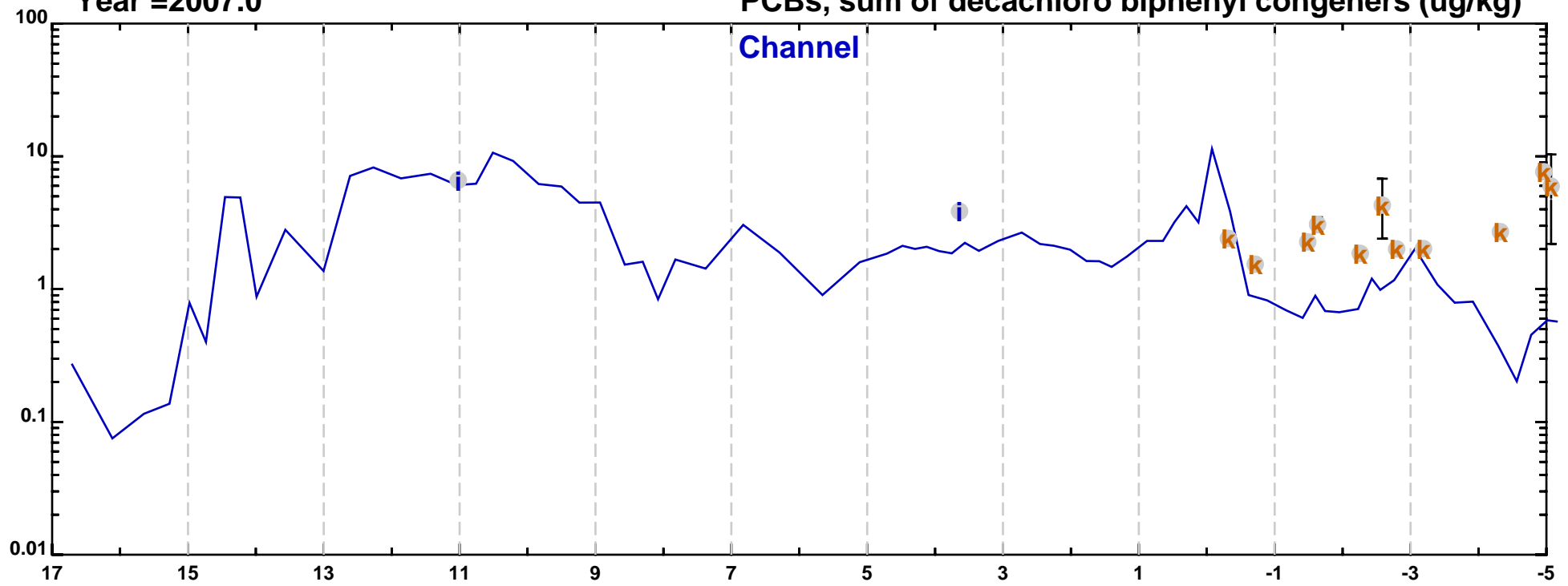


Year =2007.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

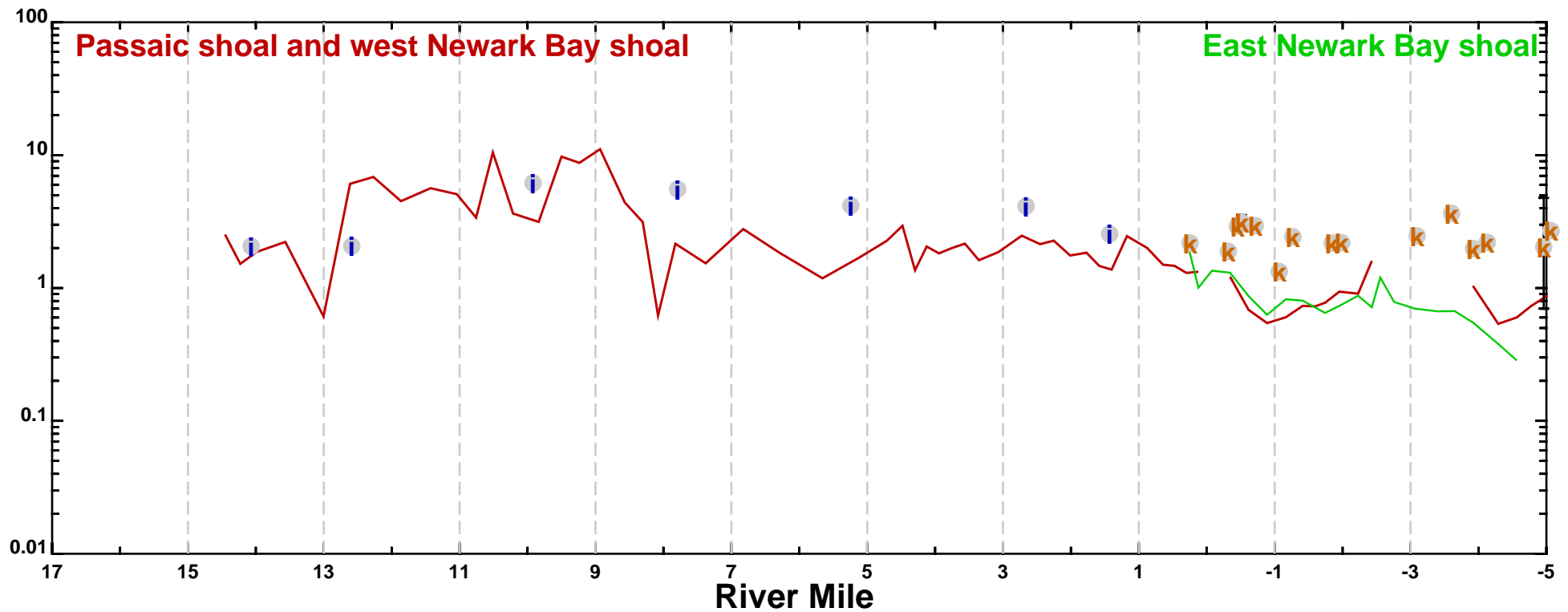
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

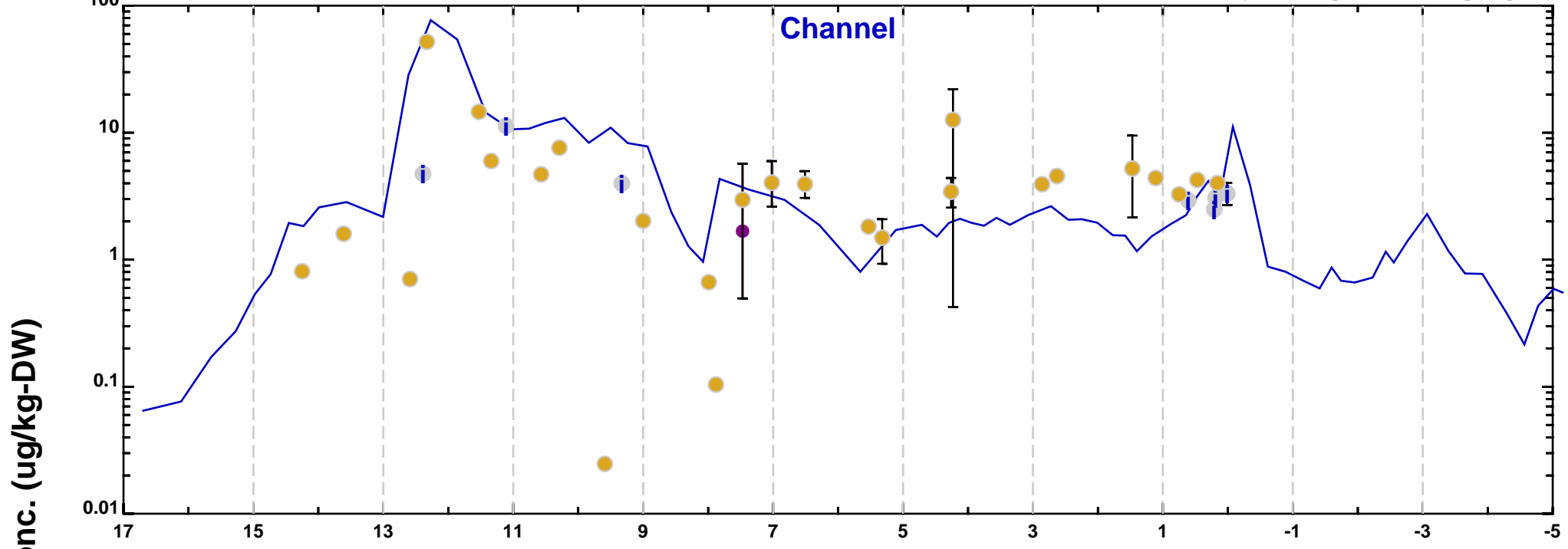
East Newark Bay shoal



River Mile

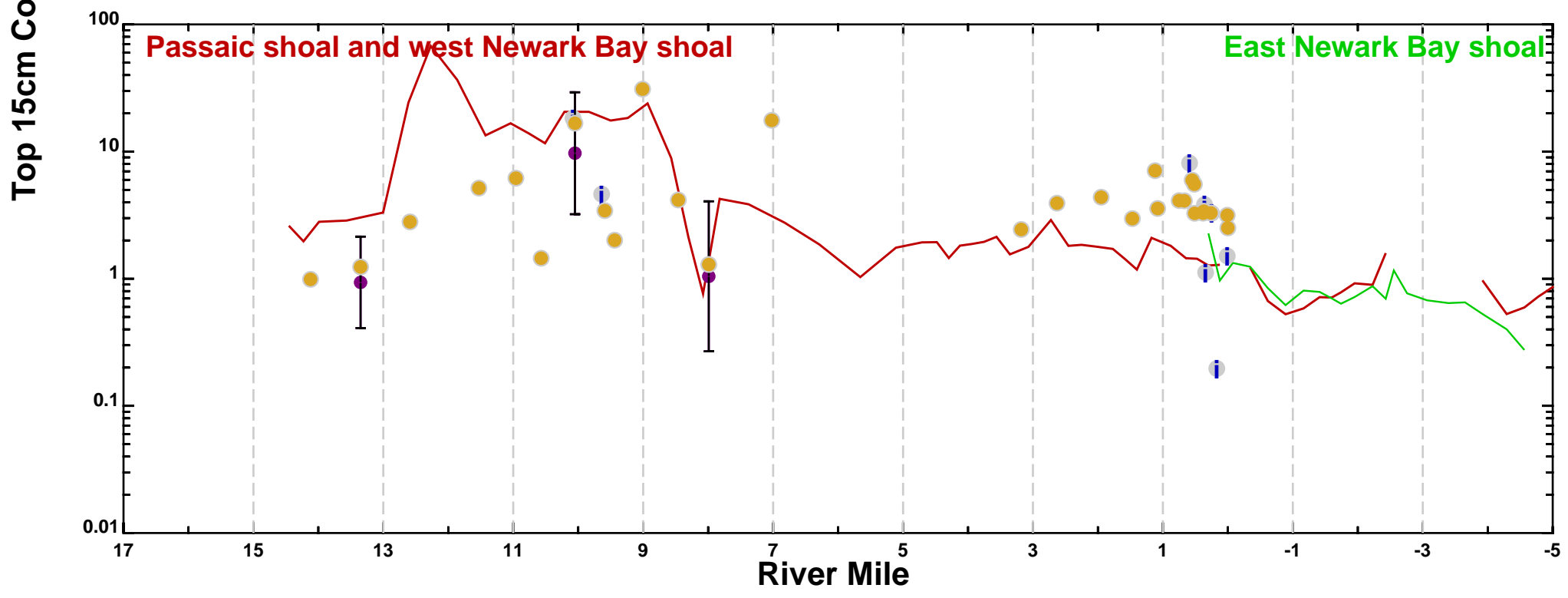
Year =2008.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2009.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

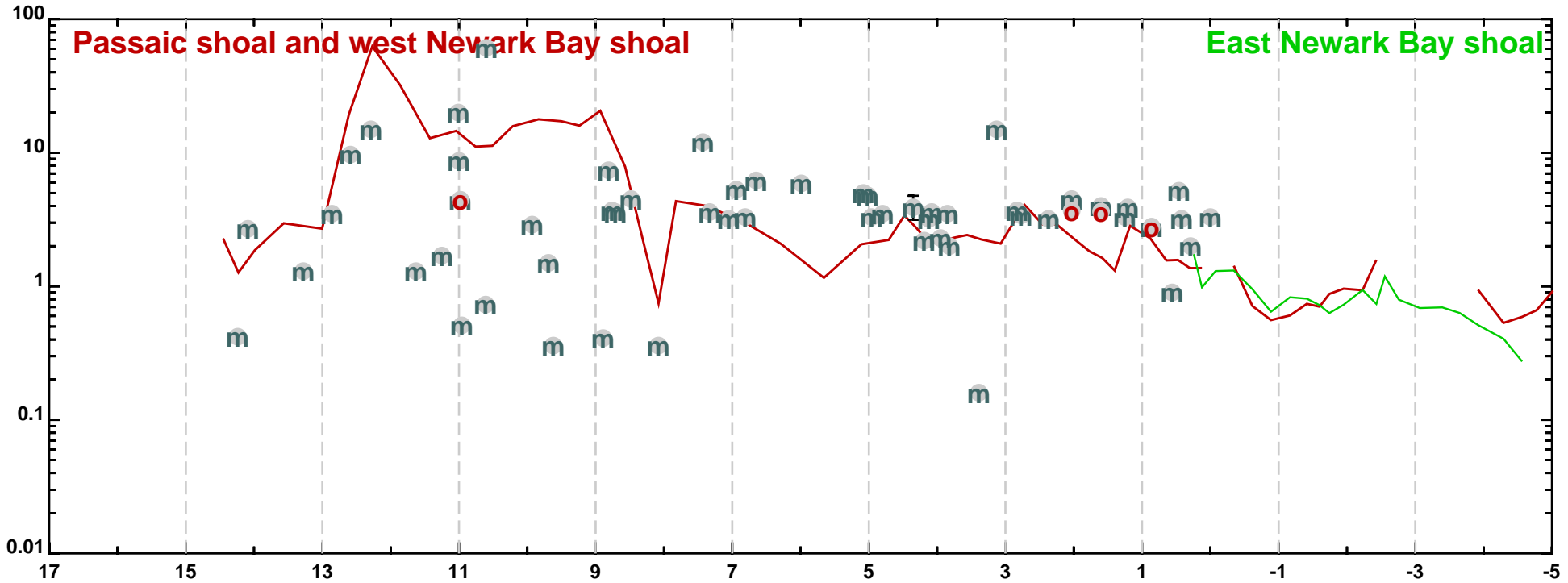
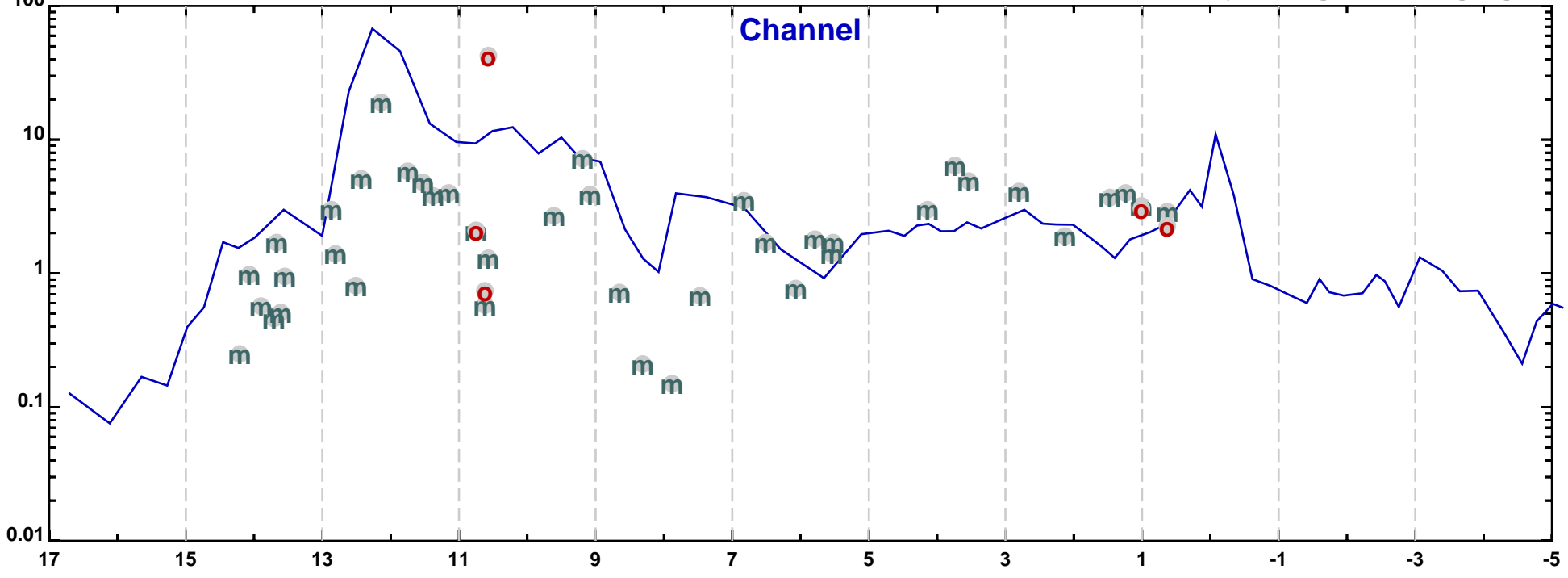
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

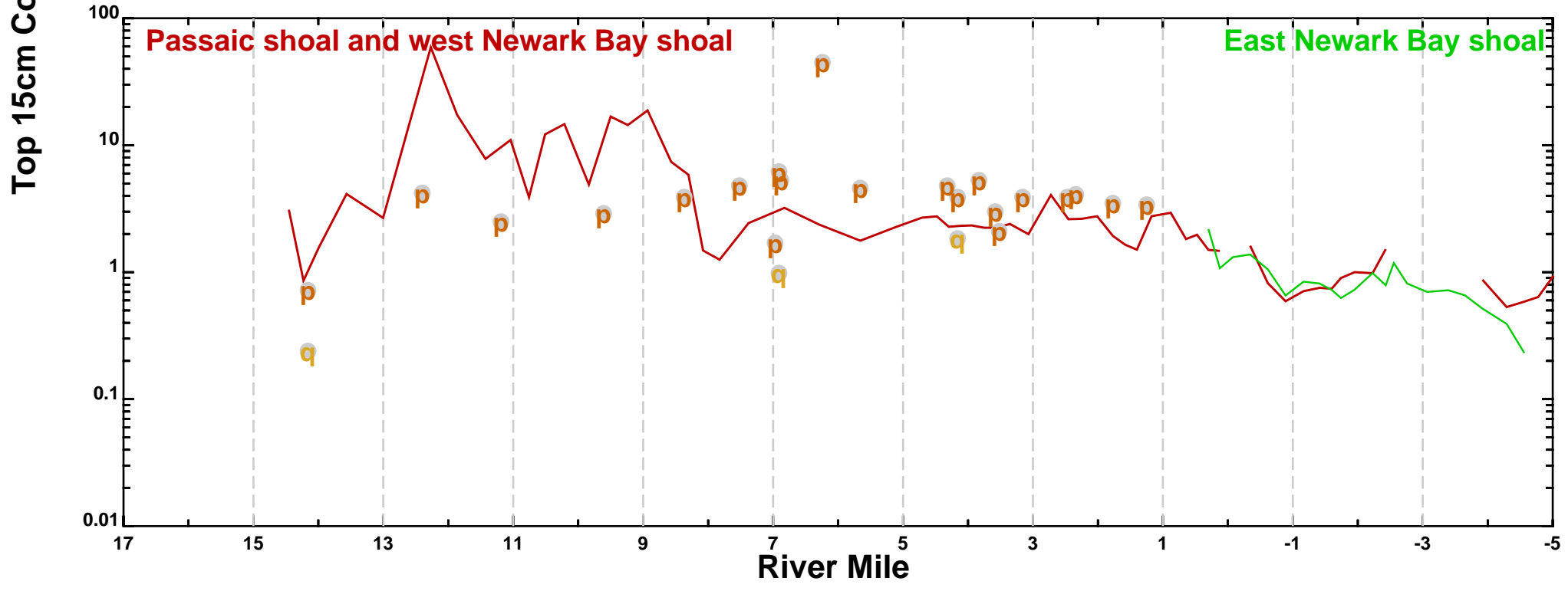
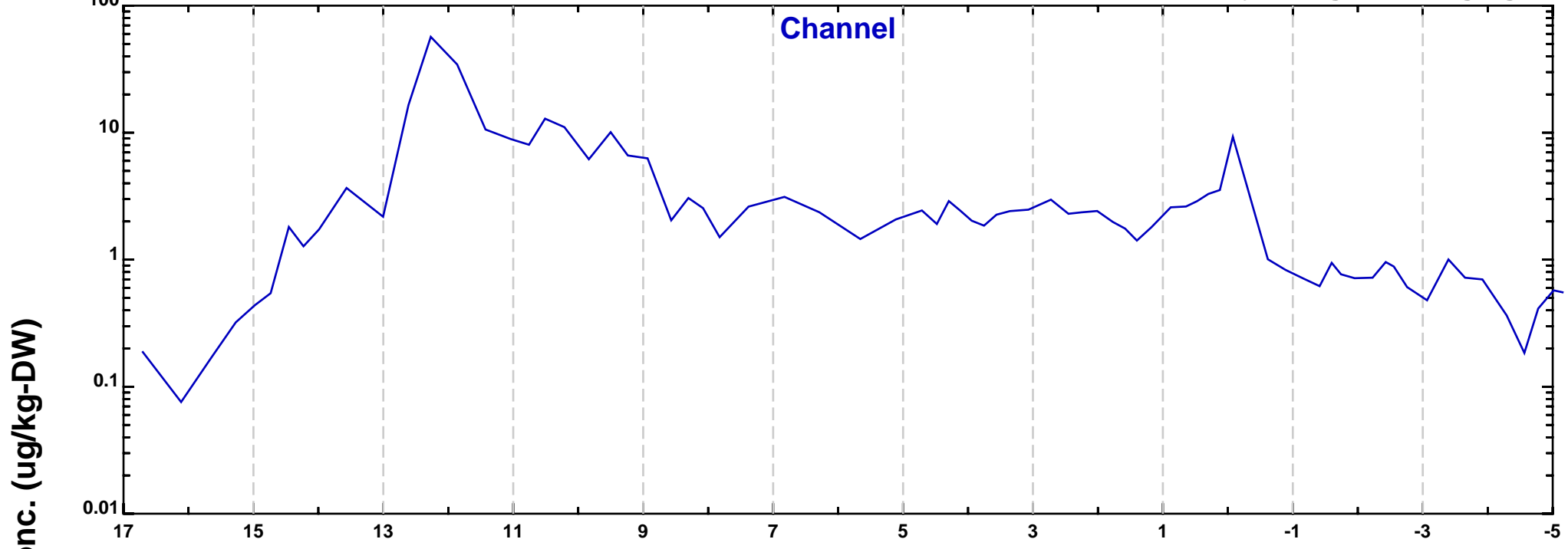
East Newark Bay shoal

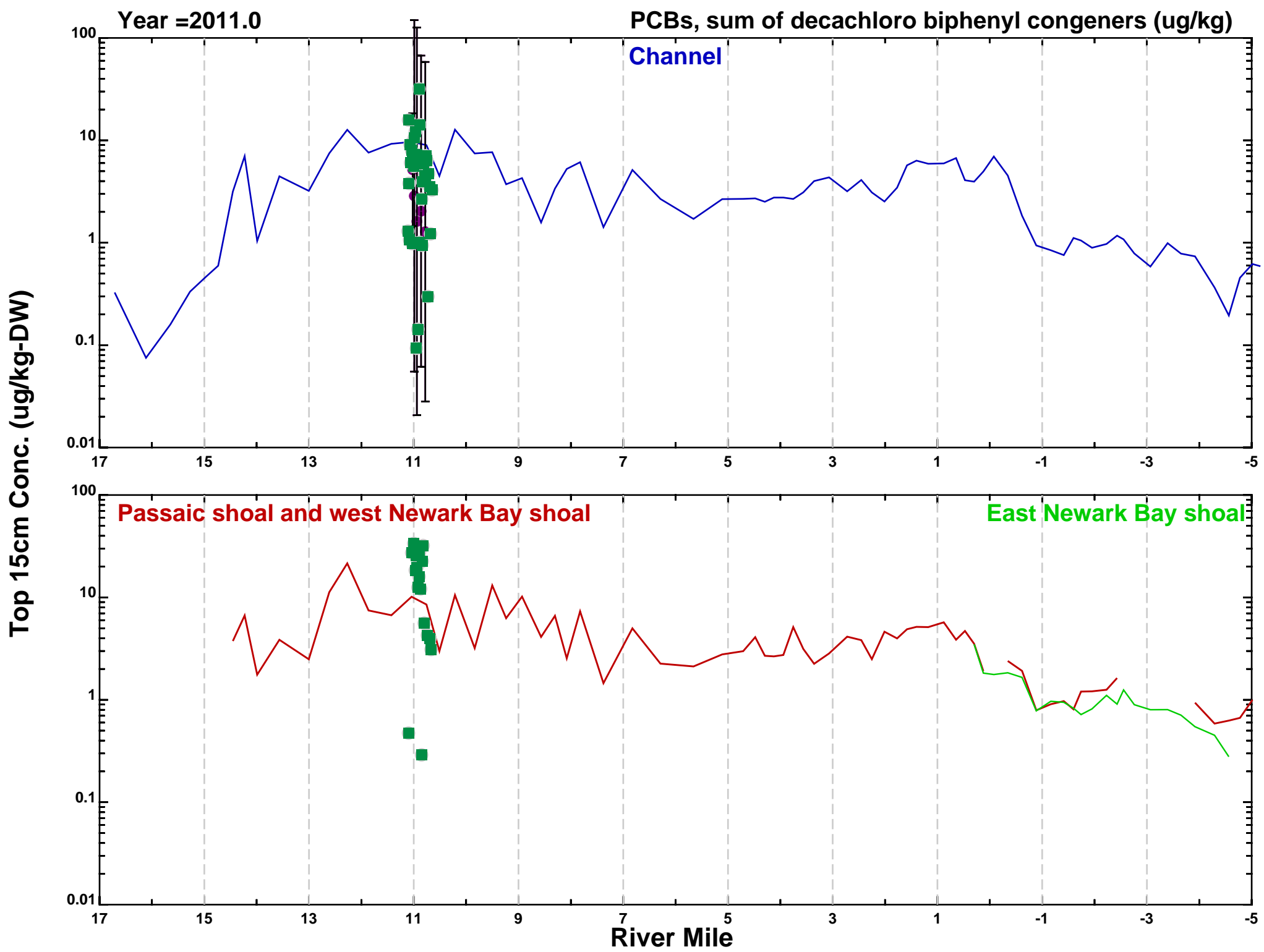
River Mile



Year =2010.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

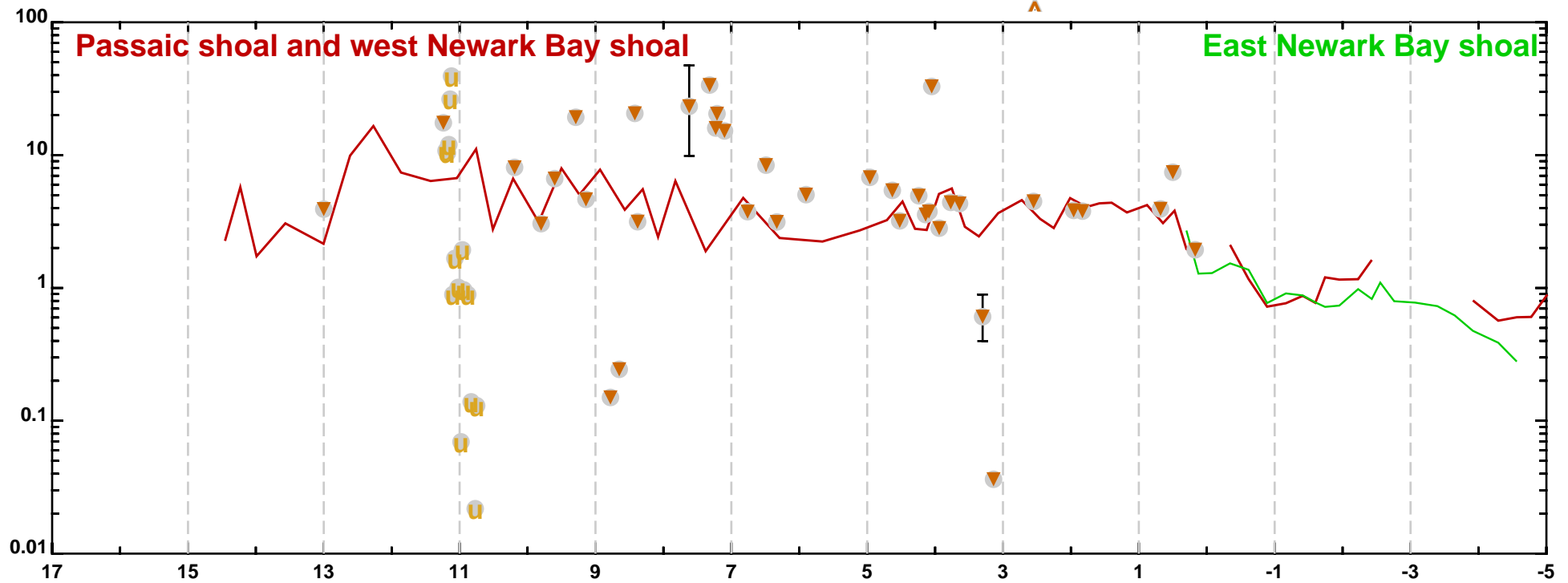
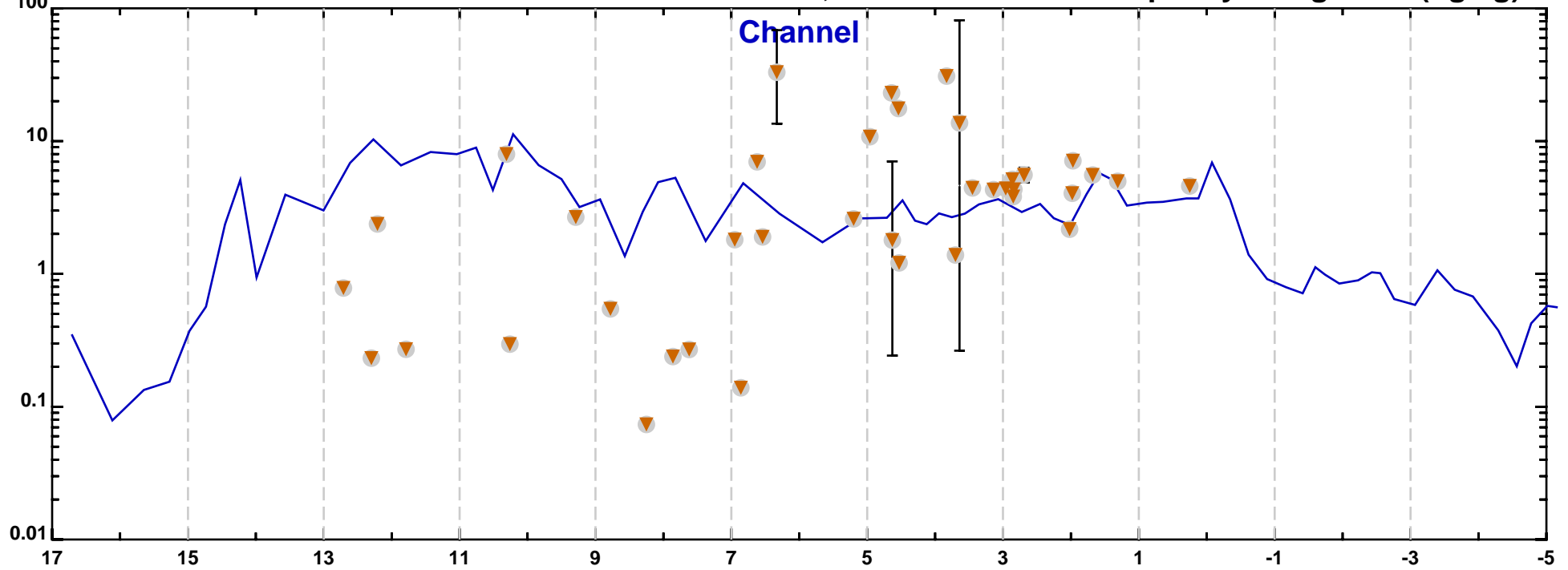




Year =2012.0

PCBs, sum of decachloro biphenyl congeners (ug/kg)

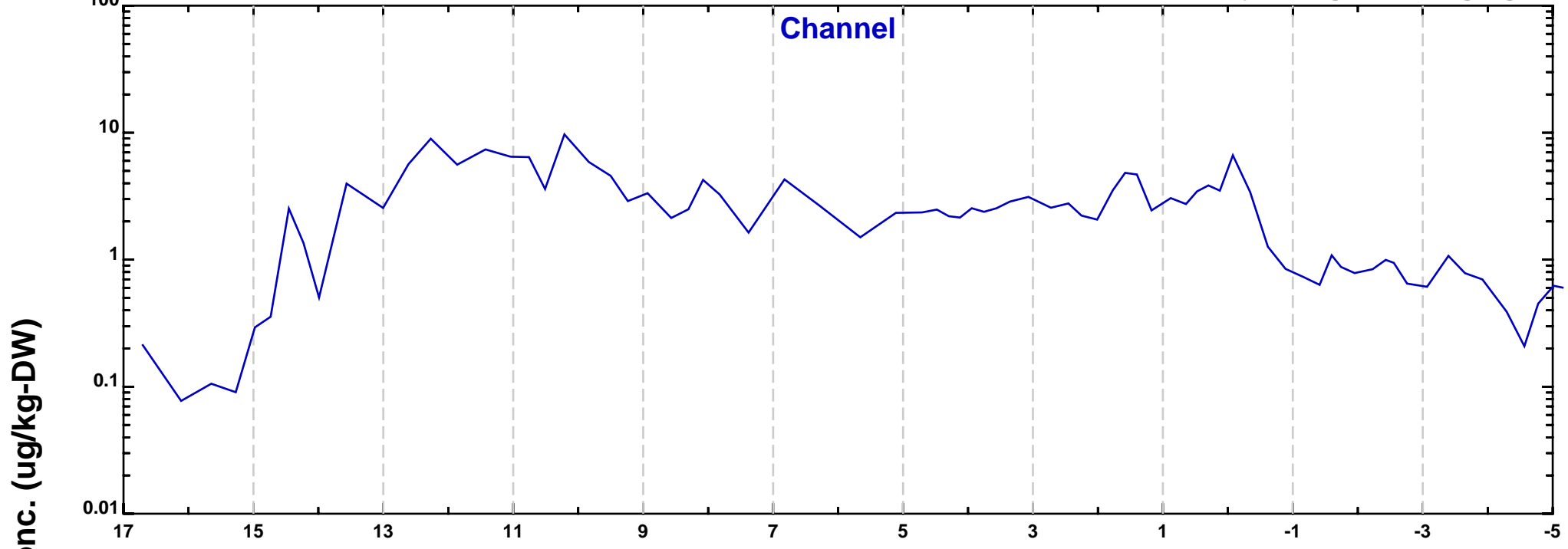
Top 15cm Conc. (ug/kg-DW)



River Mile

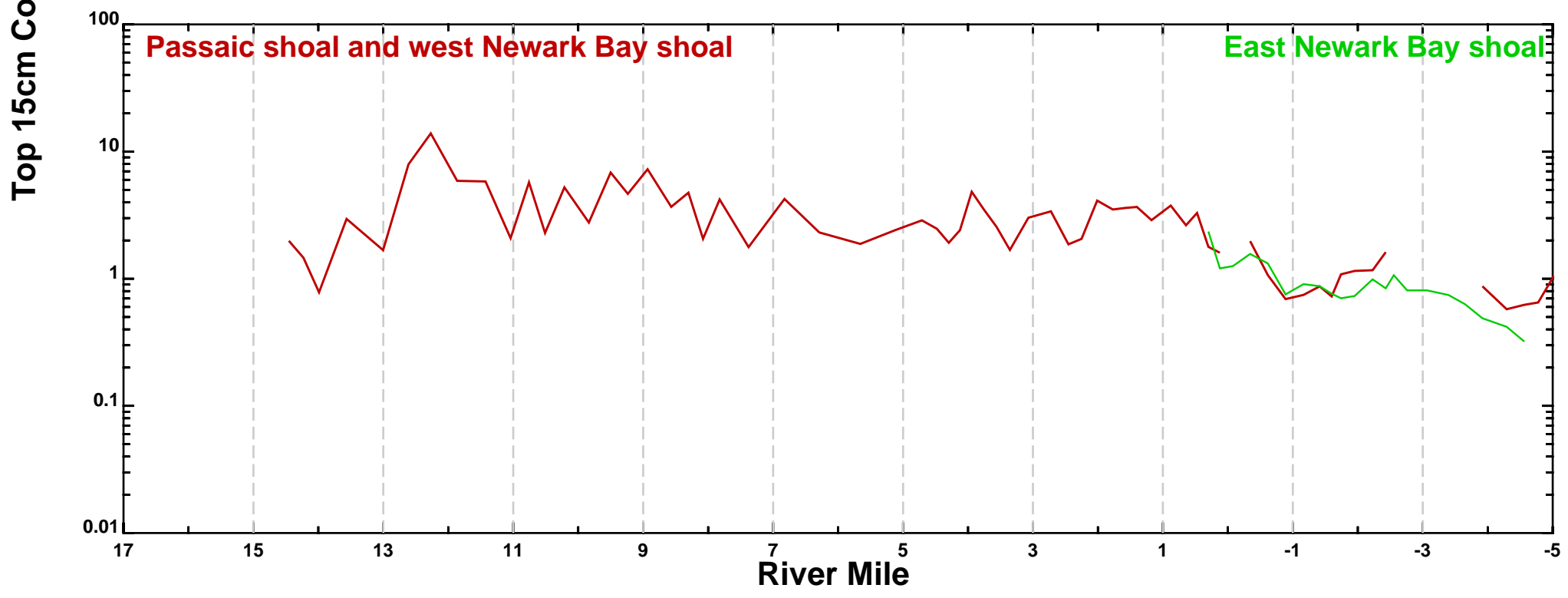
Year =2013.0

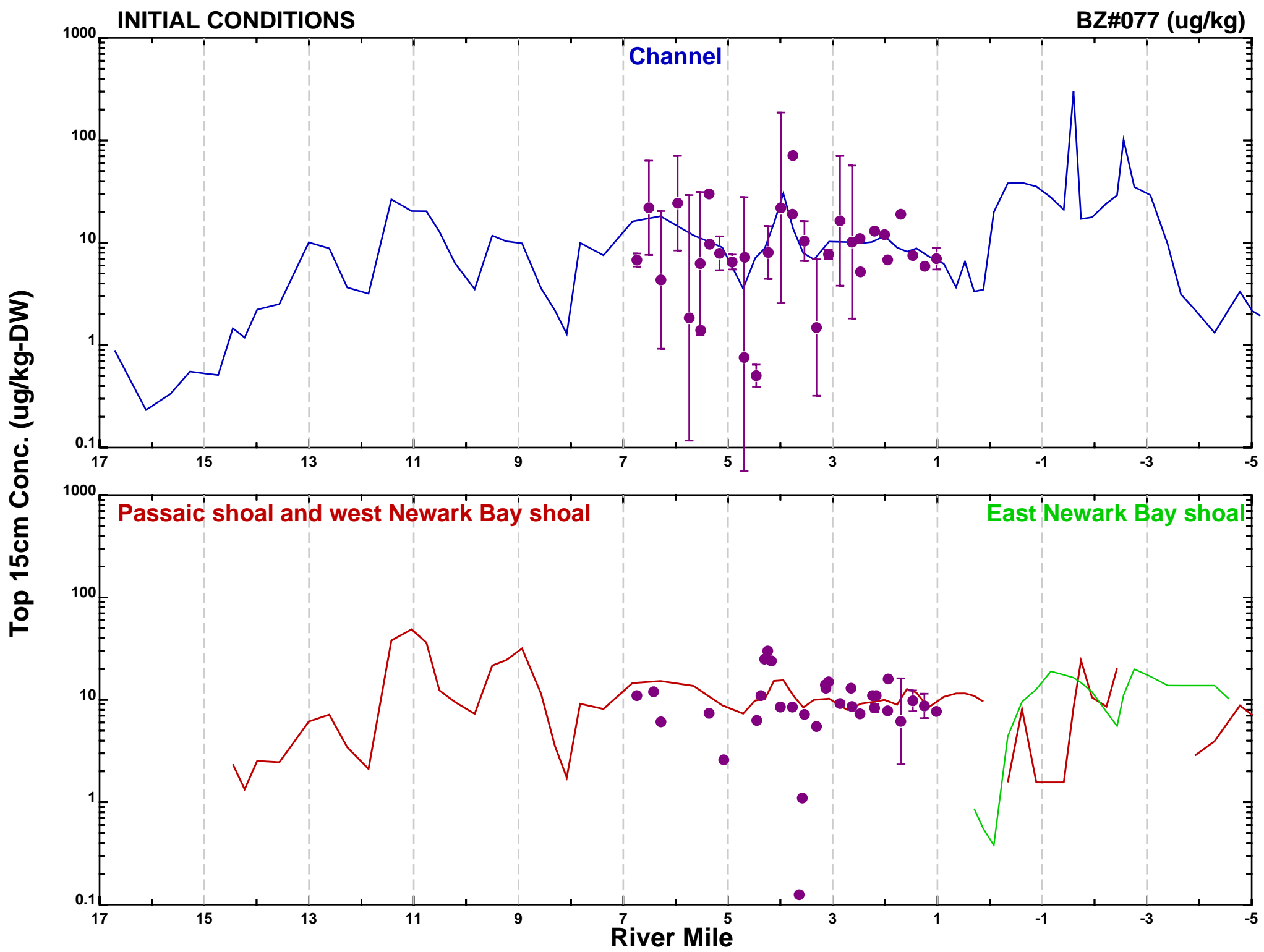
PCBs, sum of decachloro biphenyl congeners (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal







Year = 1996.0

BZ#077 (ug/kg)

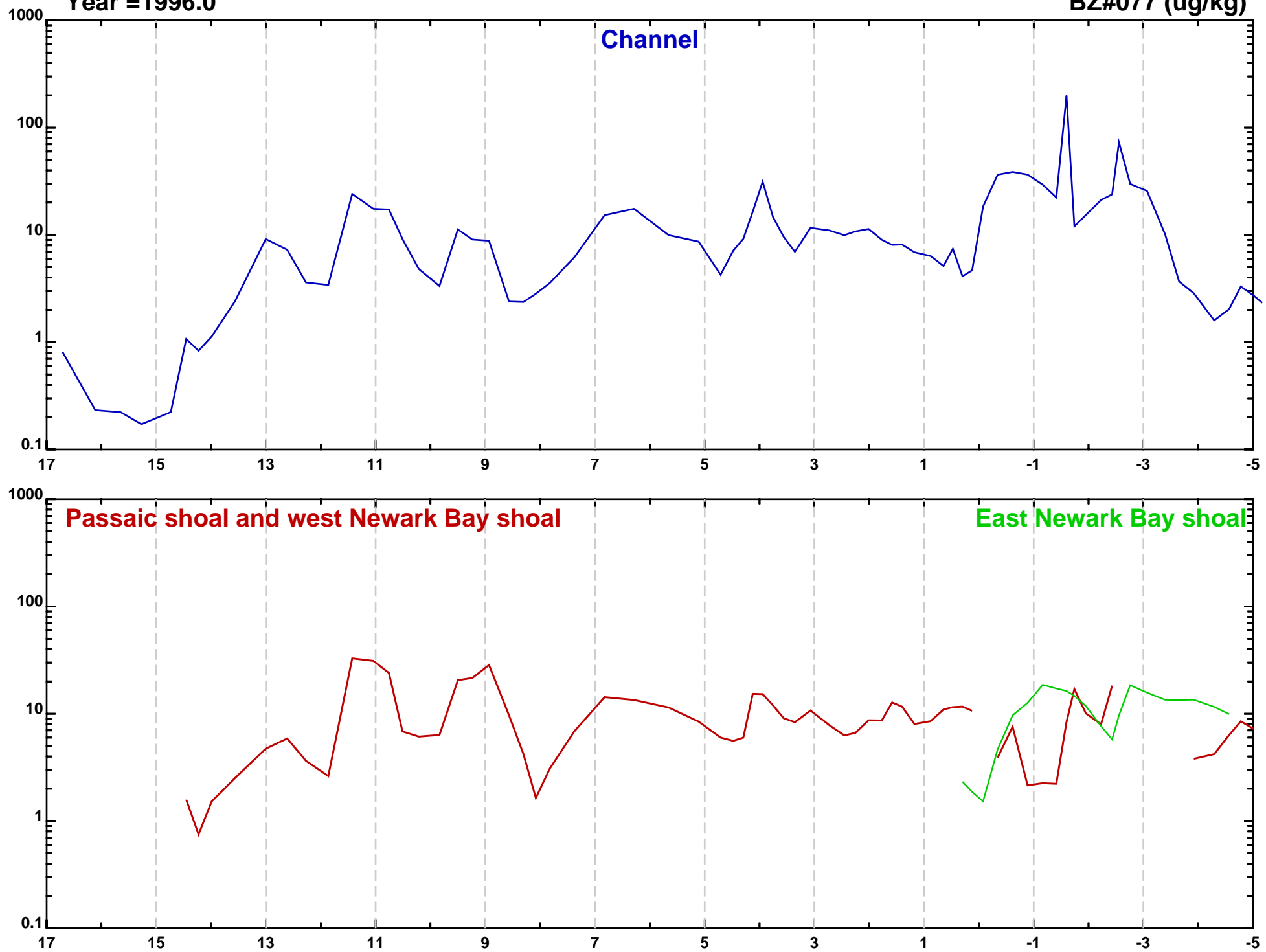
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

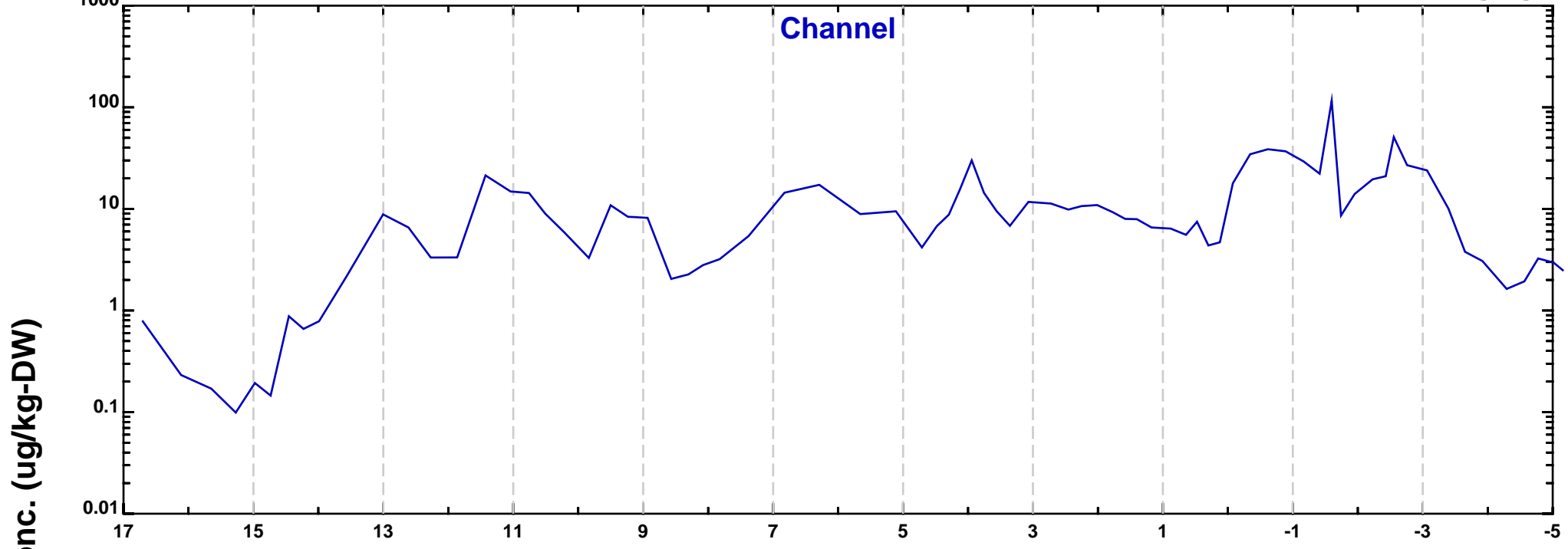
East Newark Bay shoal

River Mile



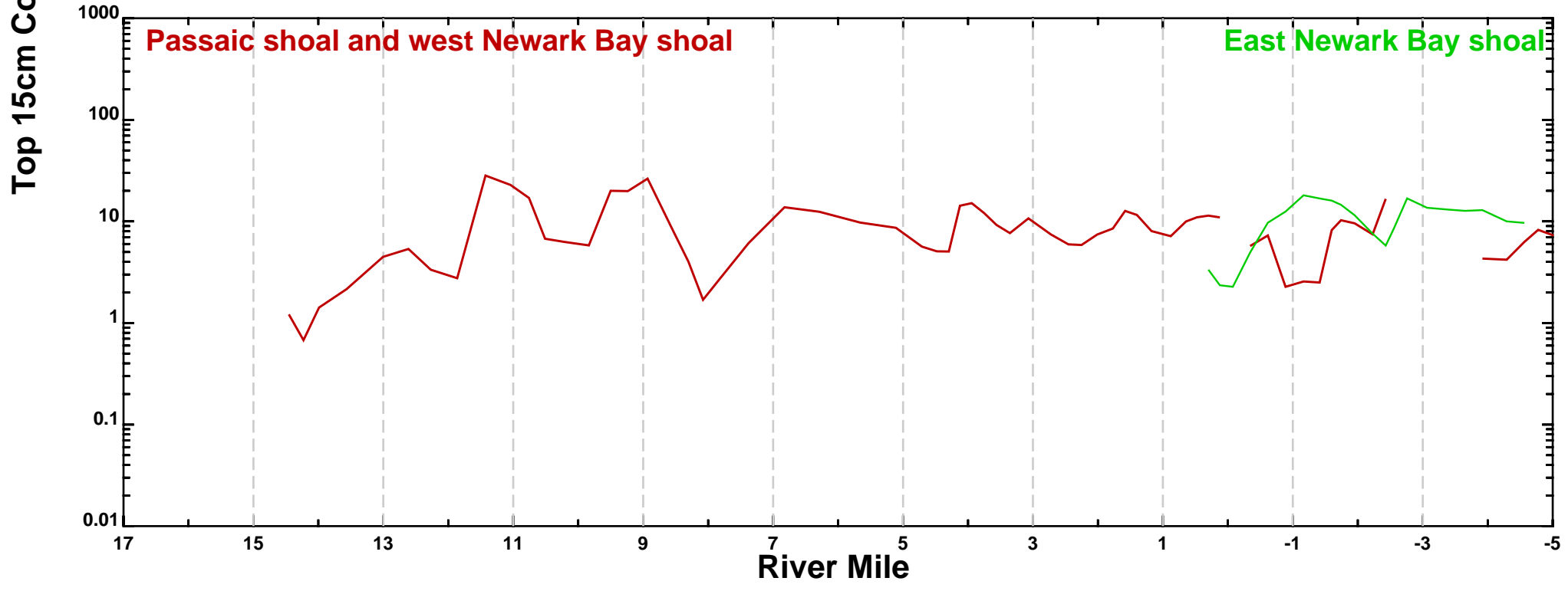
Year = 1997.0

BZ#077 (ug/kg)



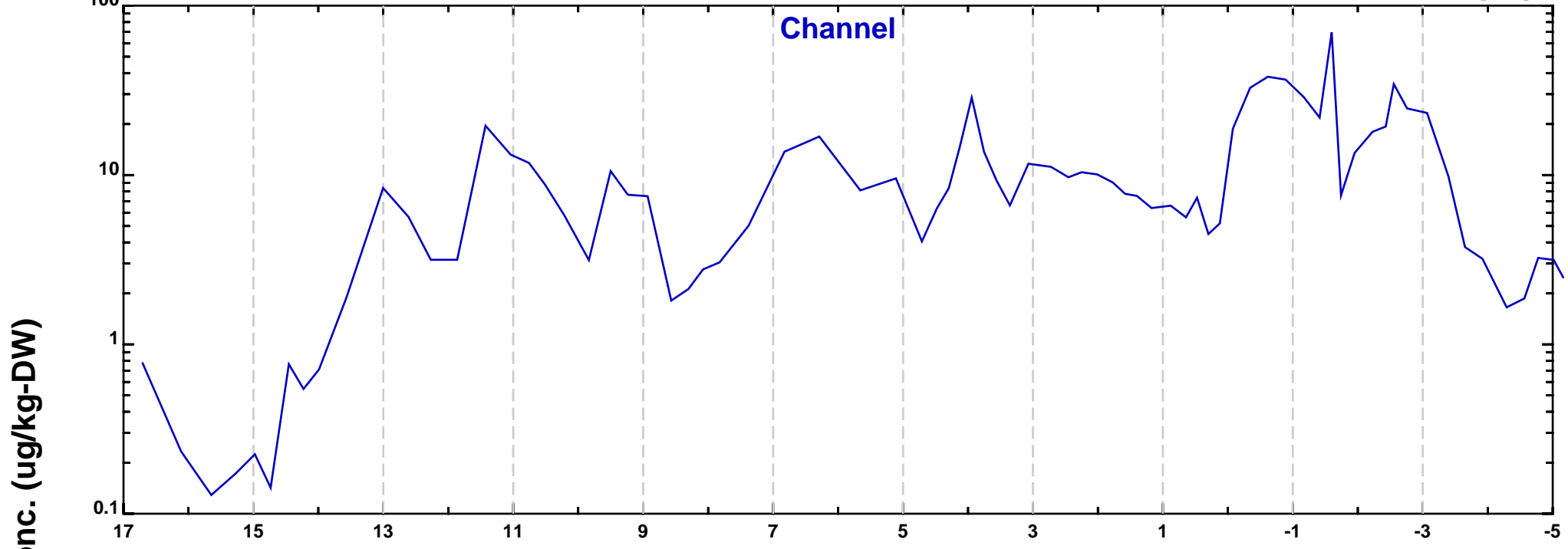
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



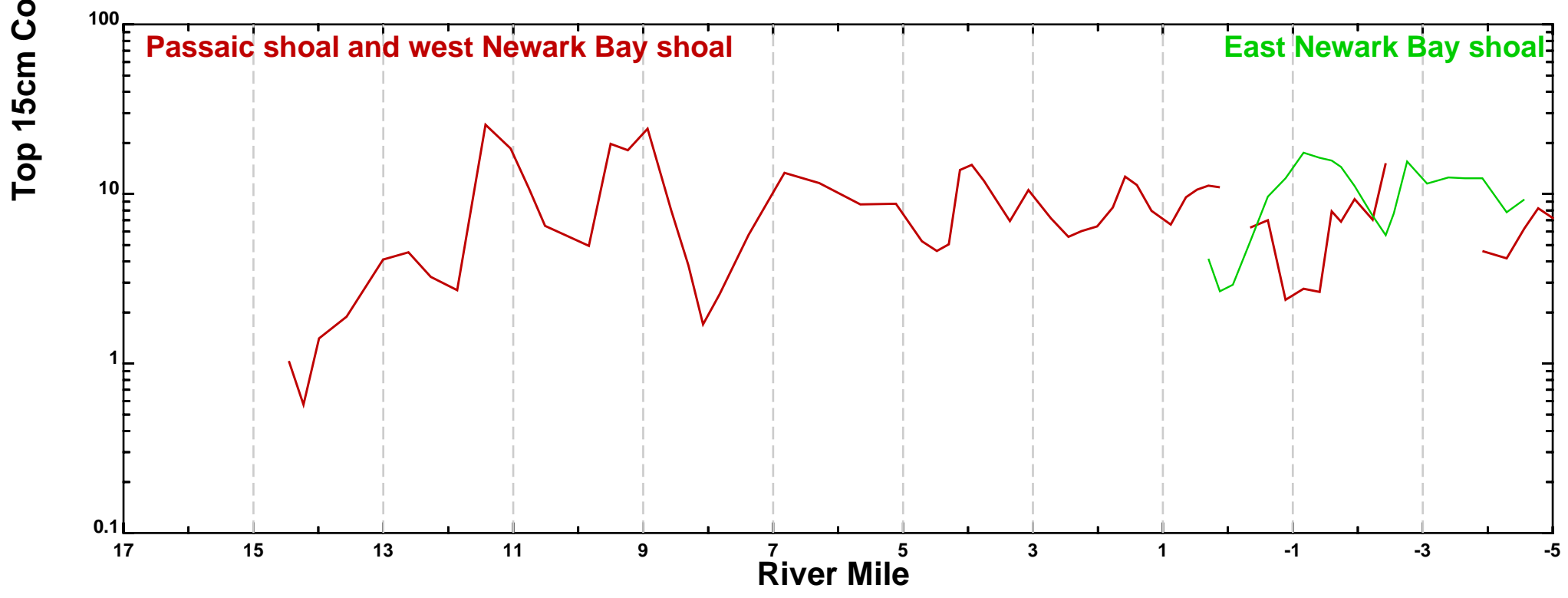
Year =1998.0

BZ#077 (ug/kg)



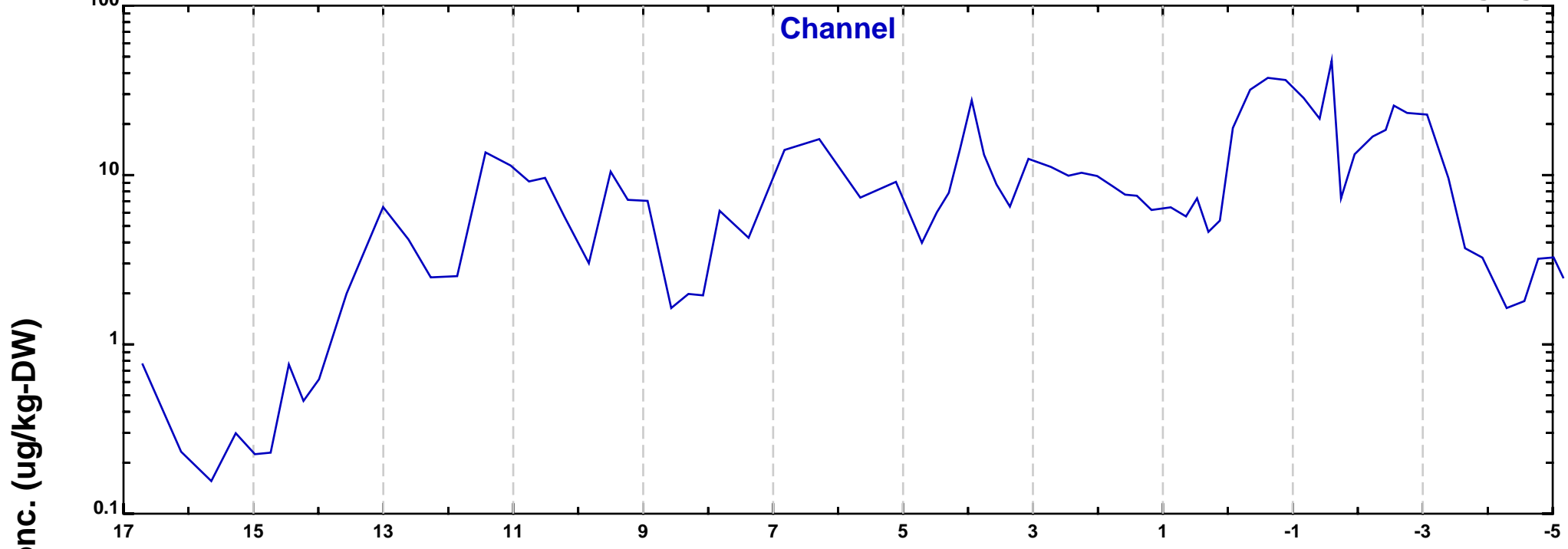
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



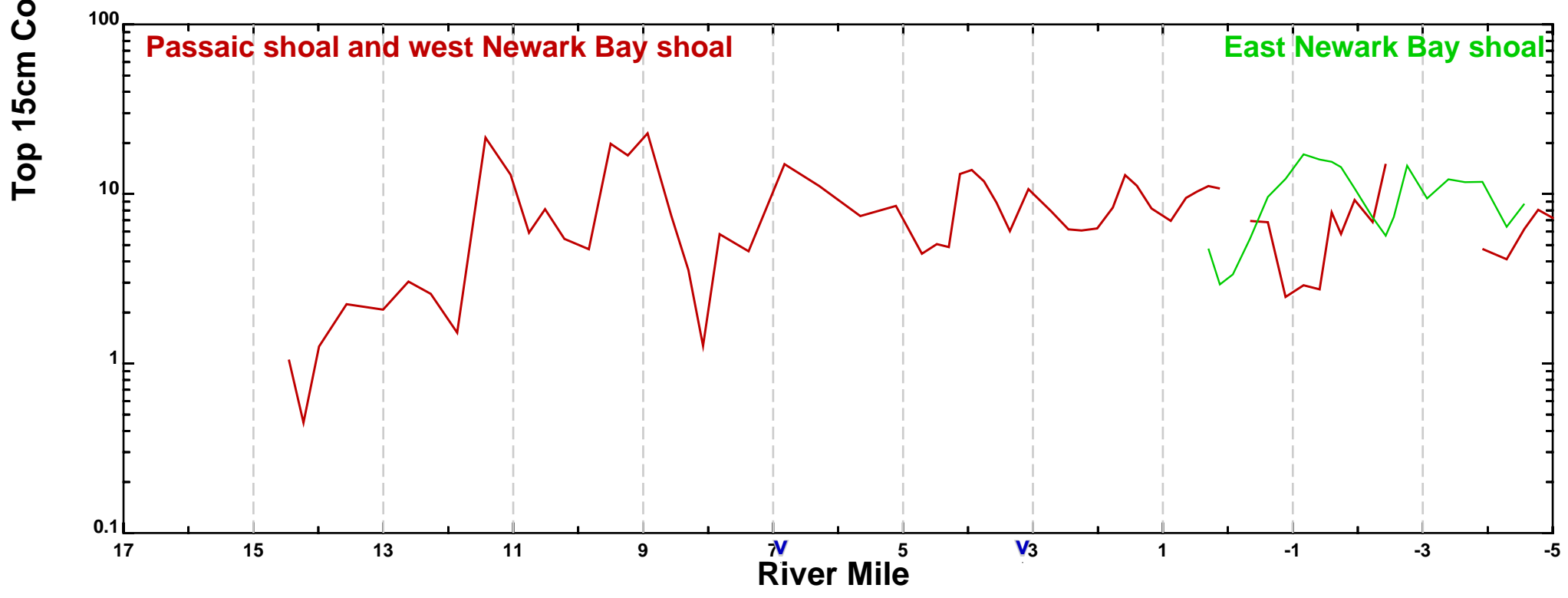
Year = 1999.0

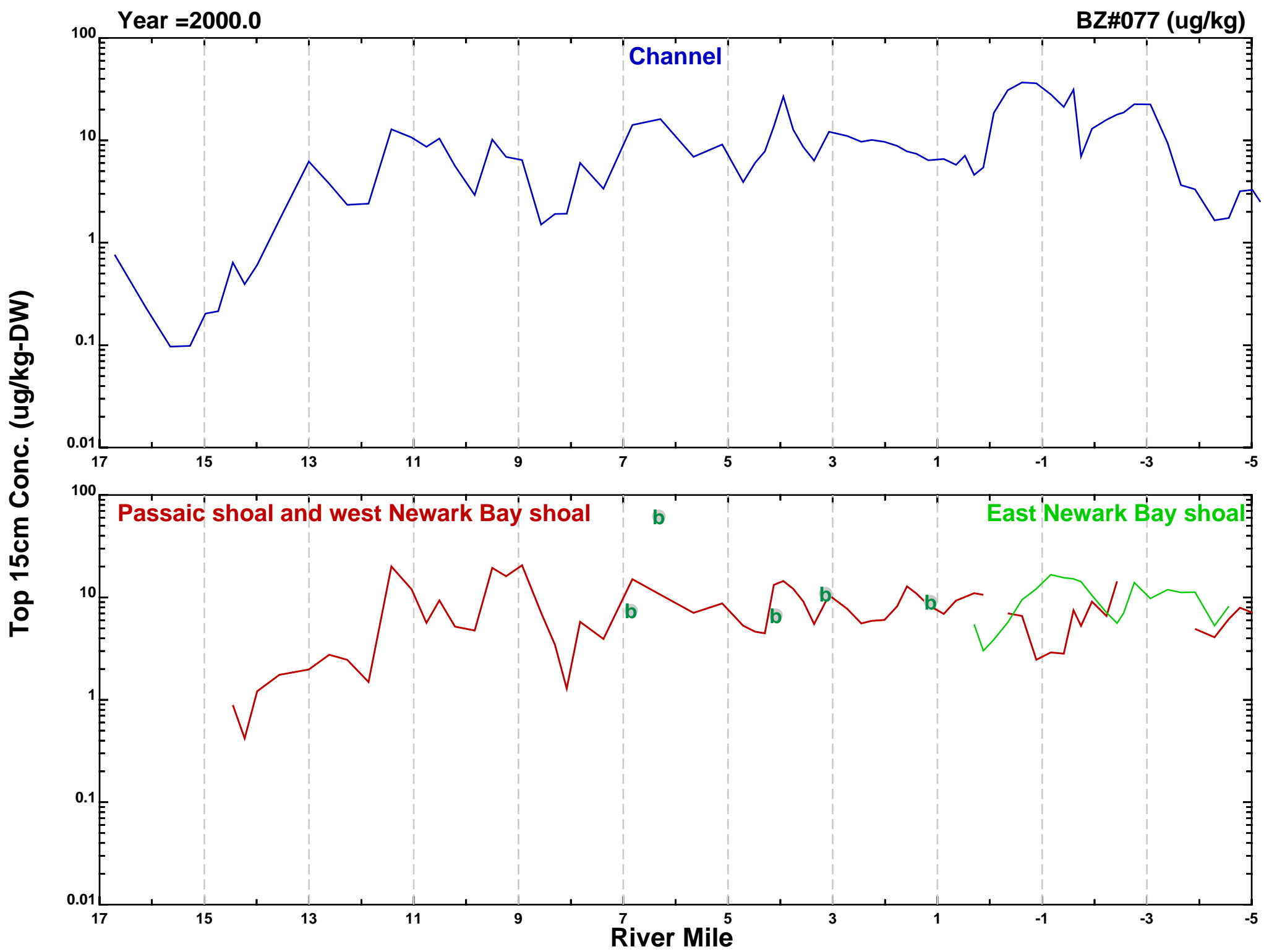
BZ#077 (ug/kg)

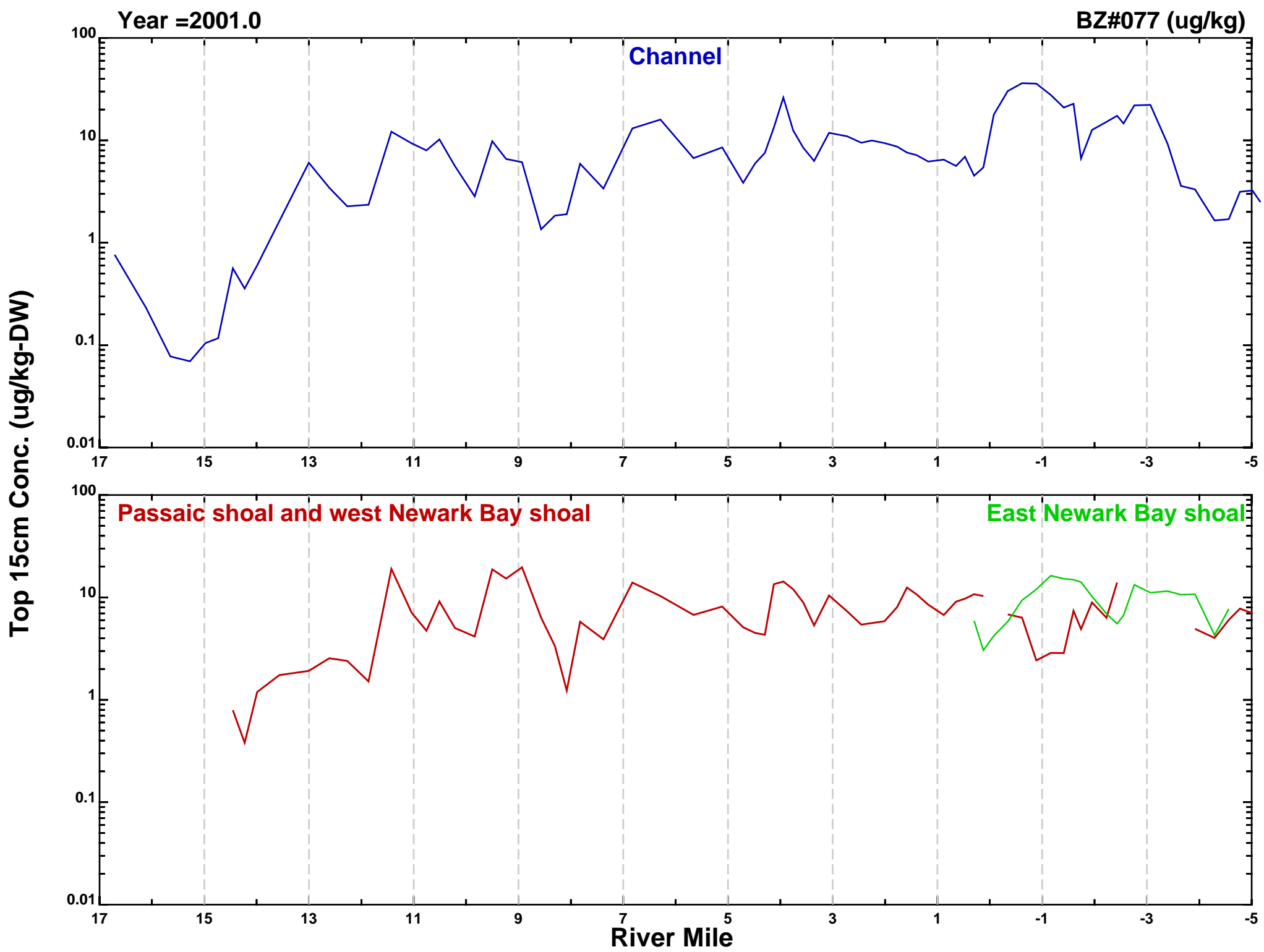


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

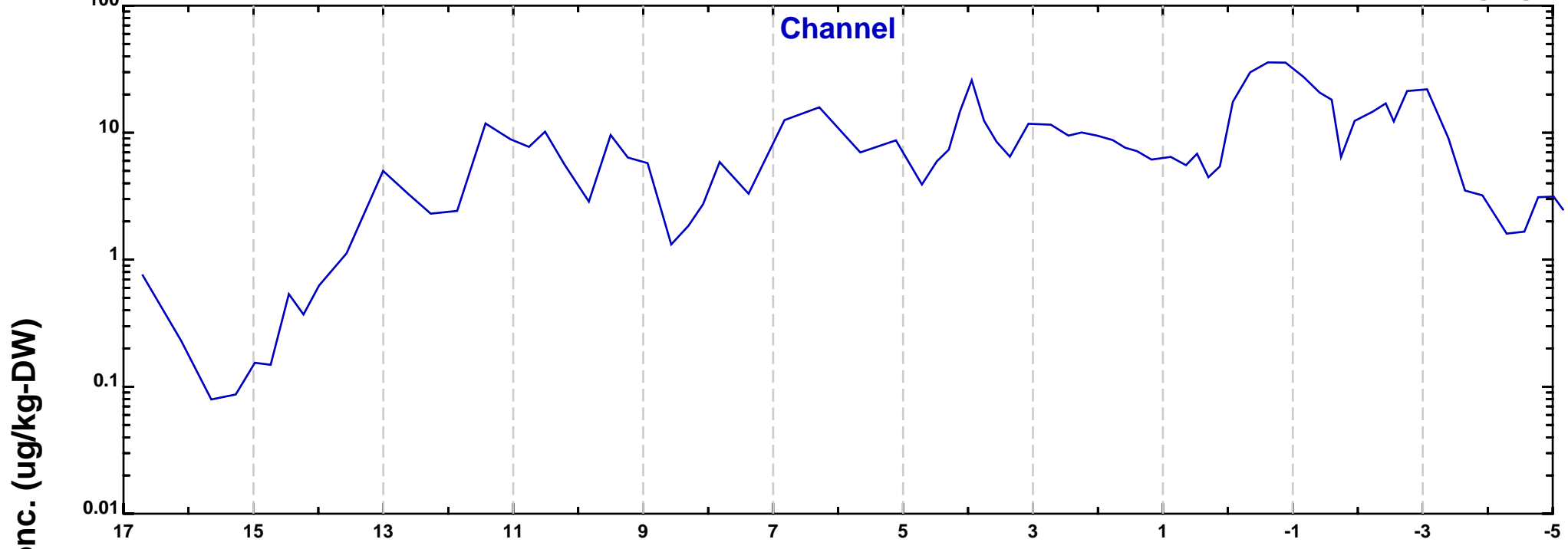






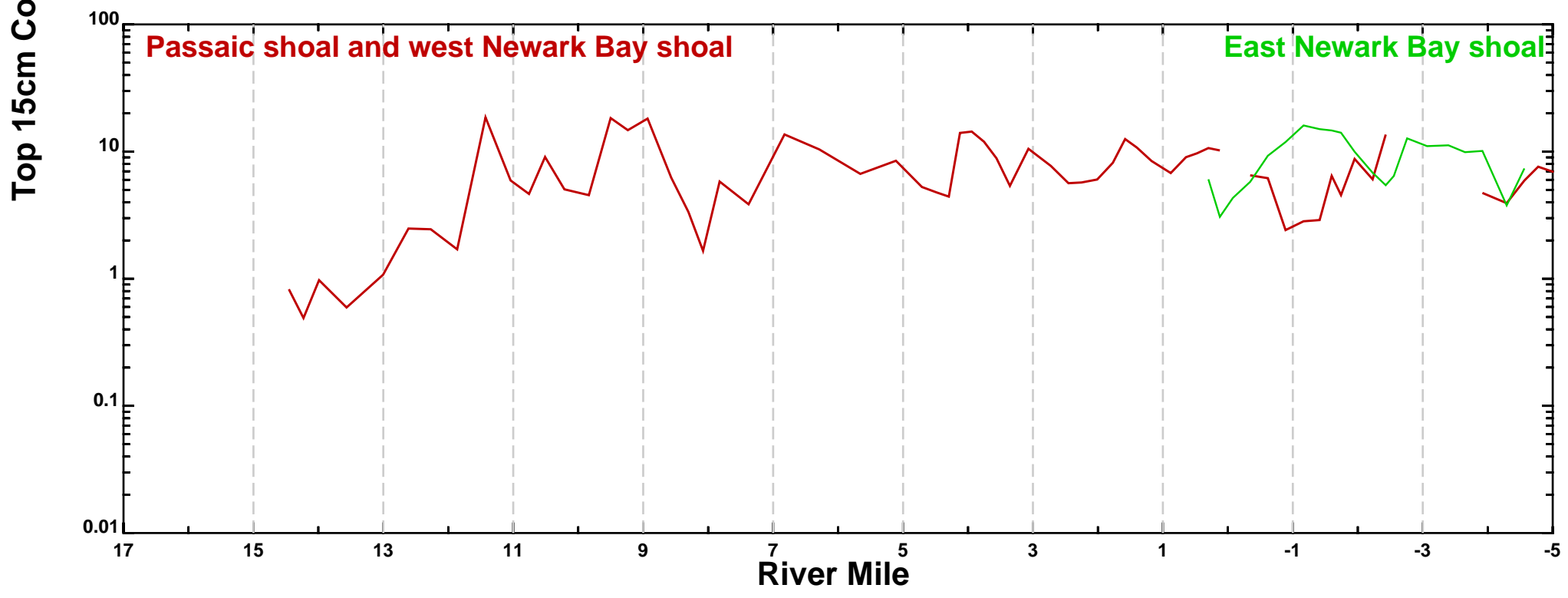
Year =2002.0

BZ#077 (ug/kg)



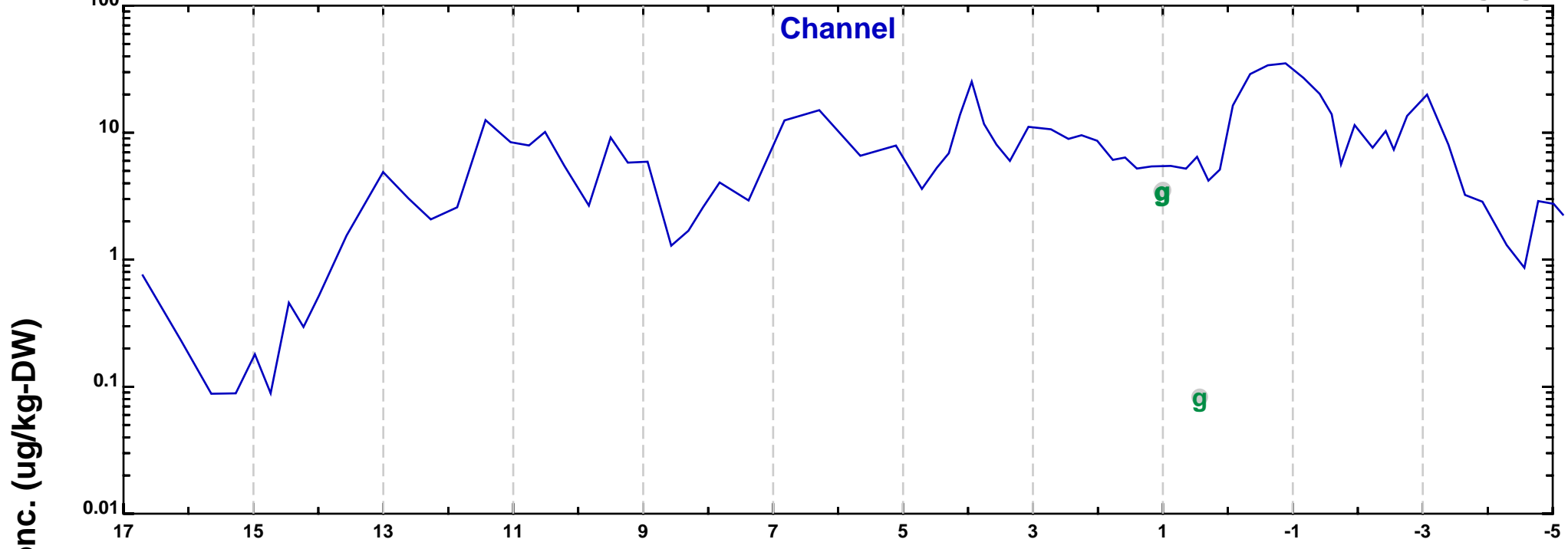
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



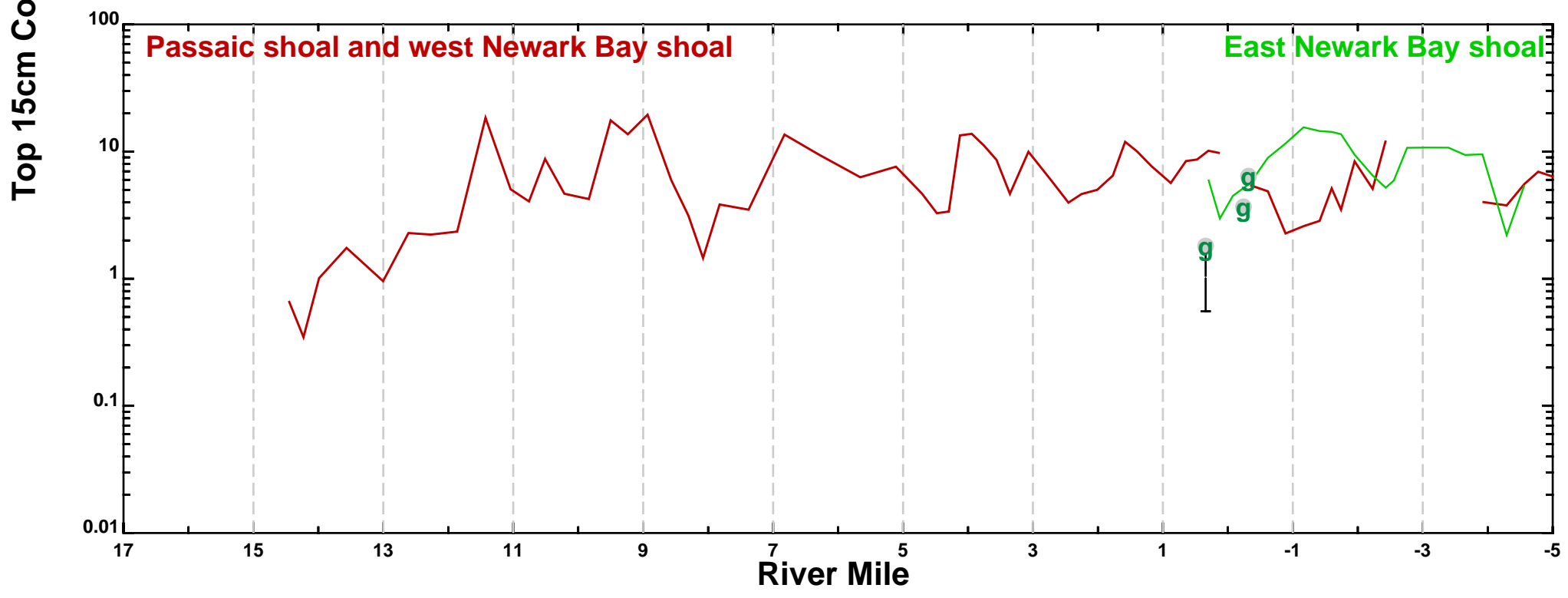
Year =2003.0

BZ#077 (ug/kg)



Passaic shoal and west Newark Bay shoal

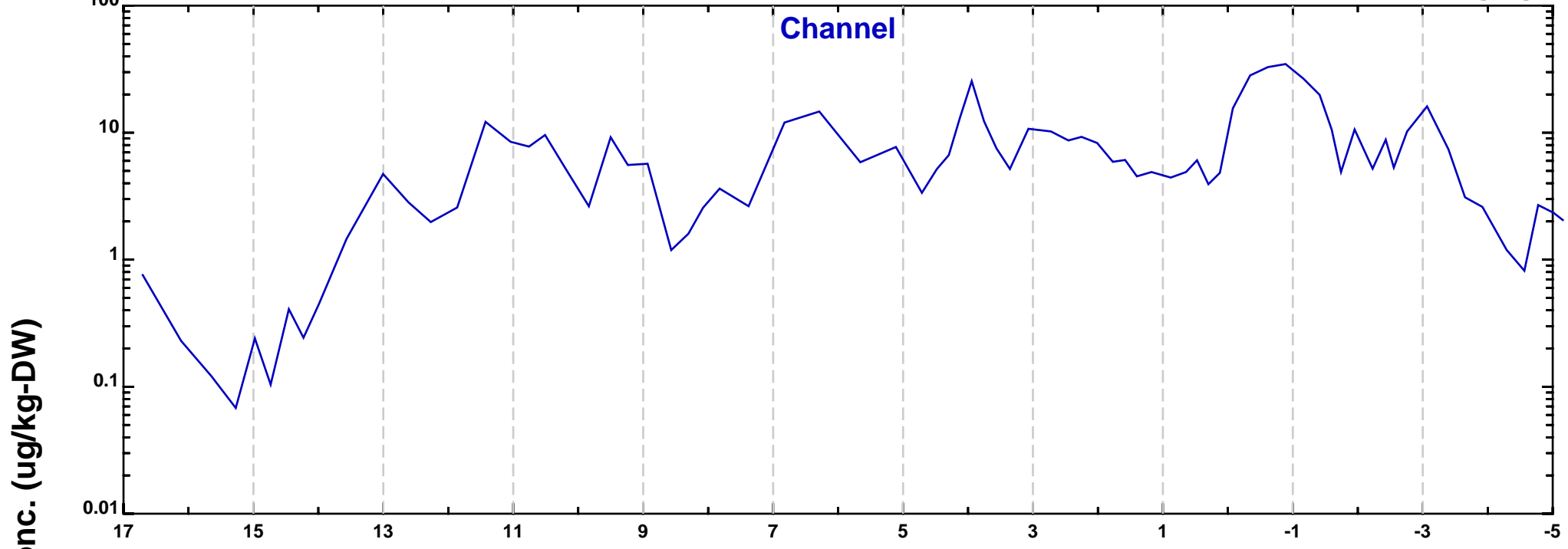
East Newark Bay shoal





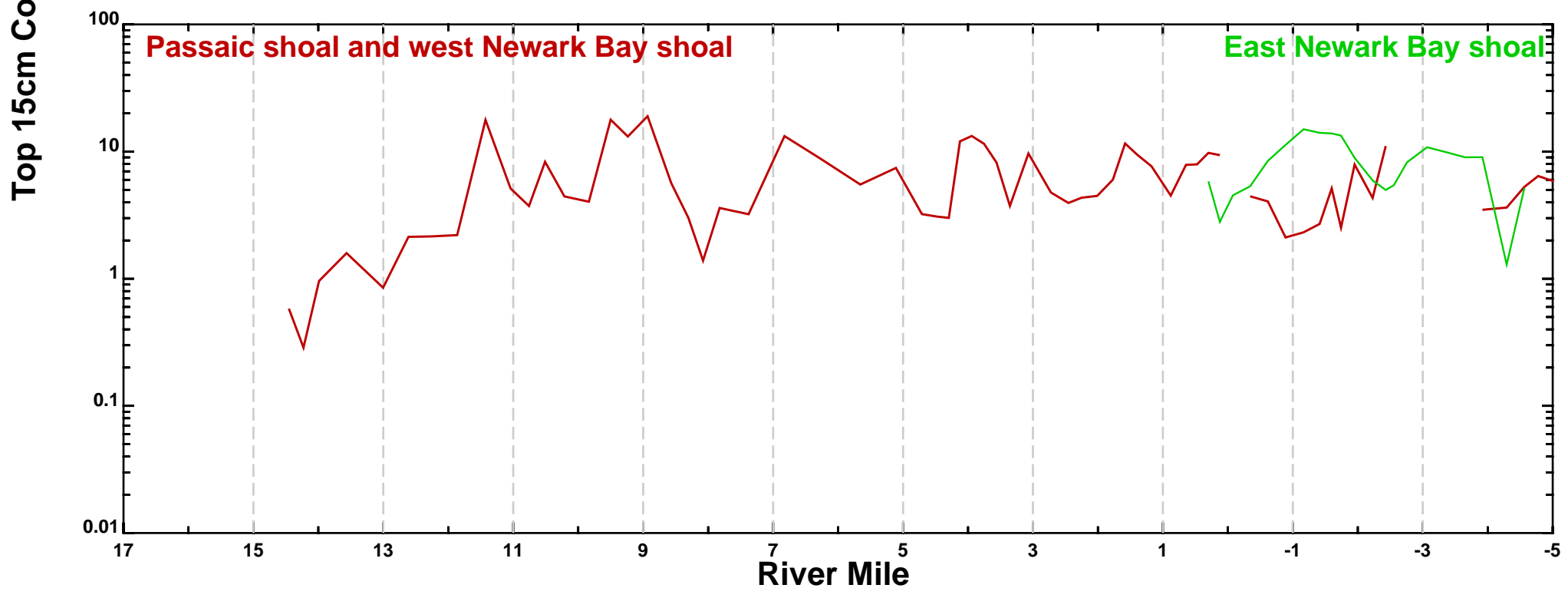
Year =2004.0

BZ#077 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

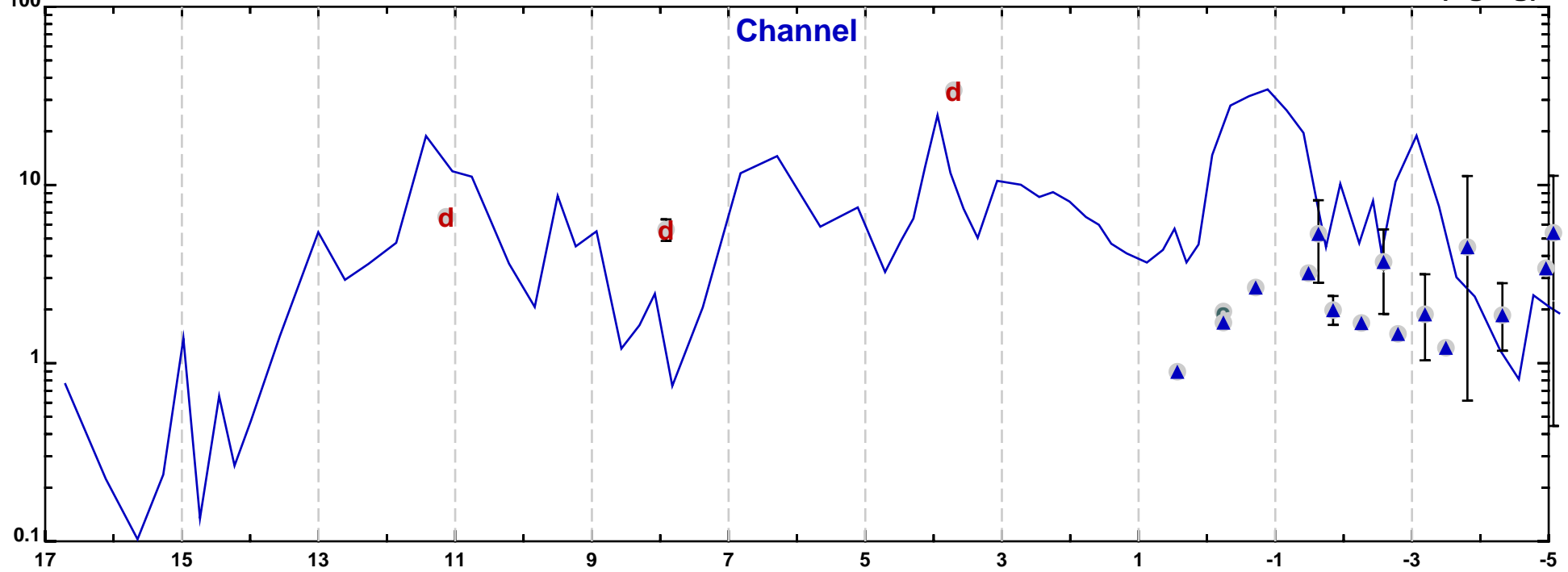


Year =2005.0

BZ#077 (ug/kg)

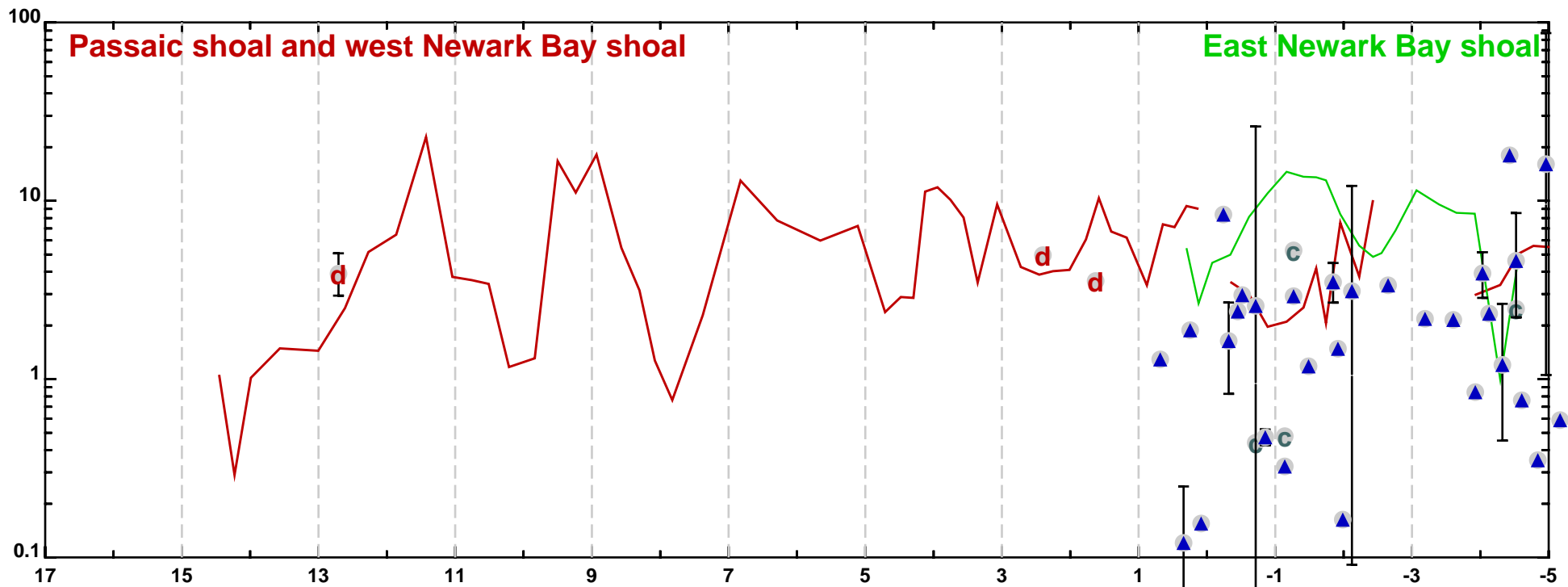
Top 15cm Conc. (ug/kg-DW)

Channel

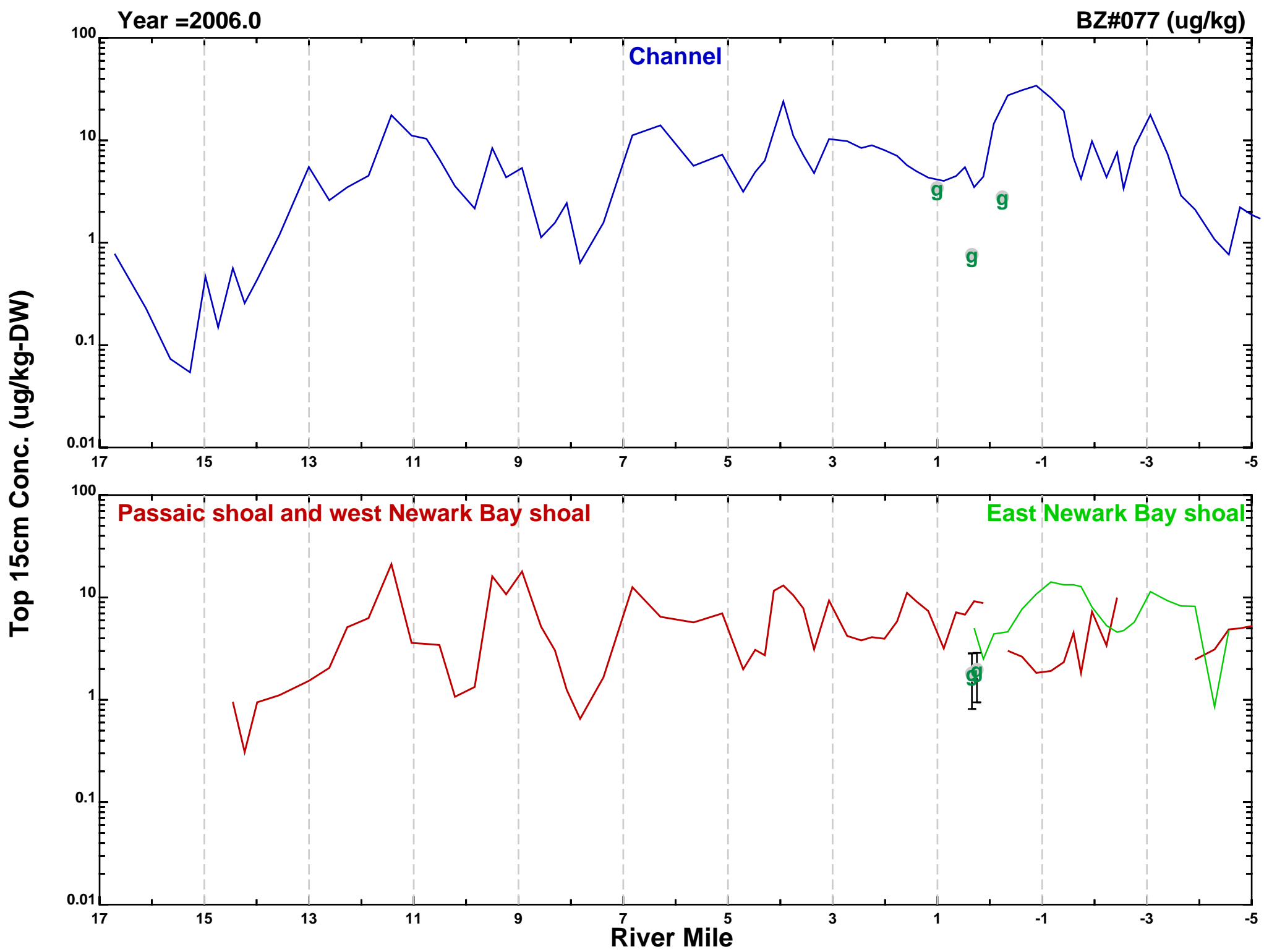


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

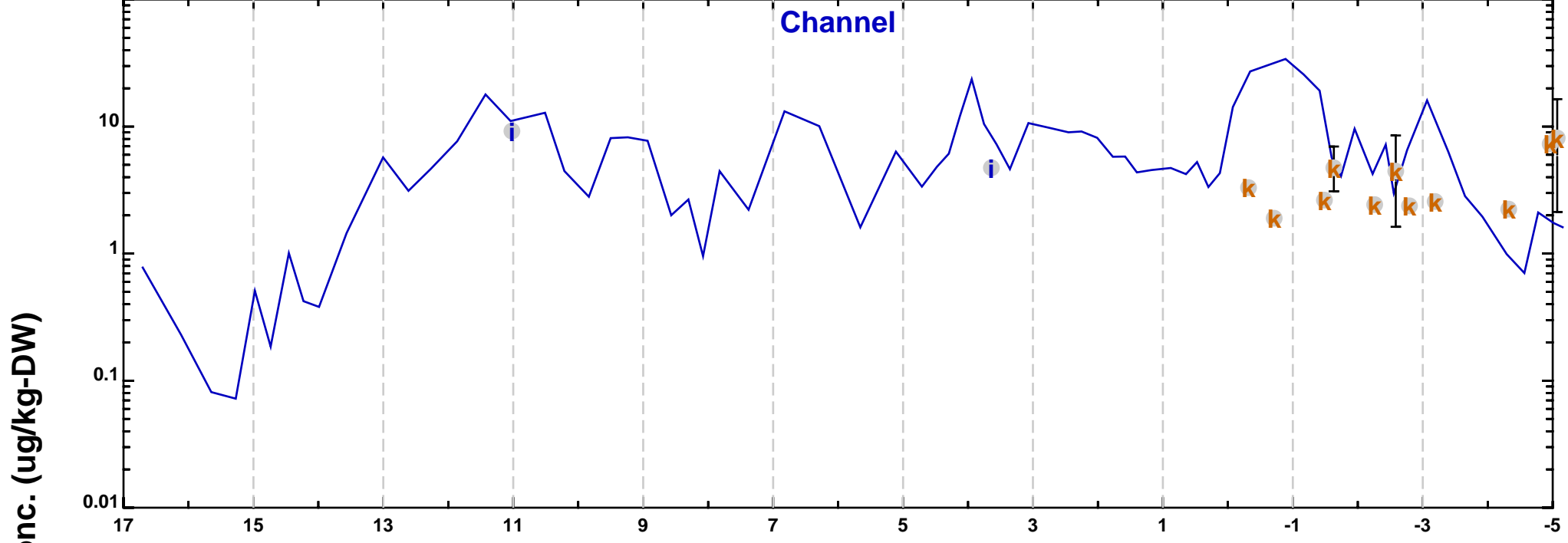


River Mile



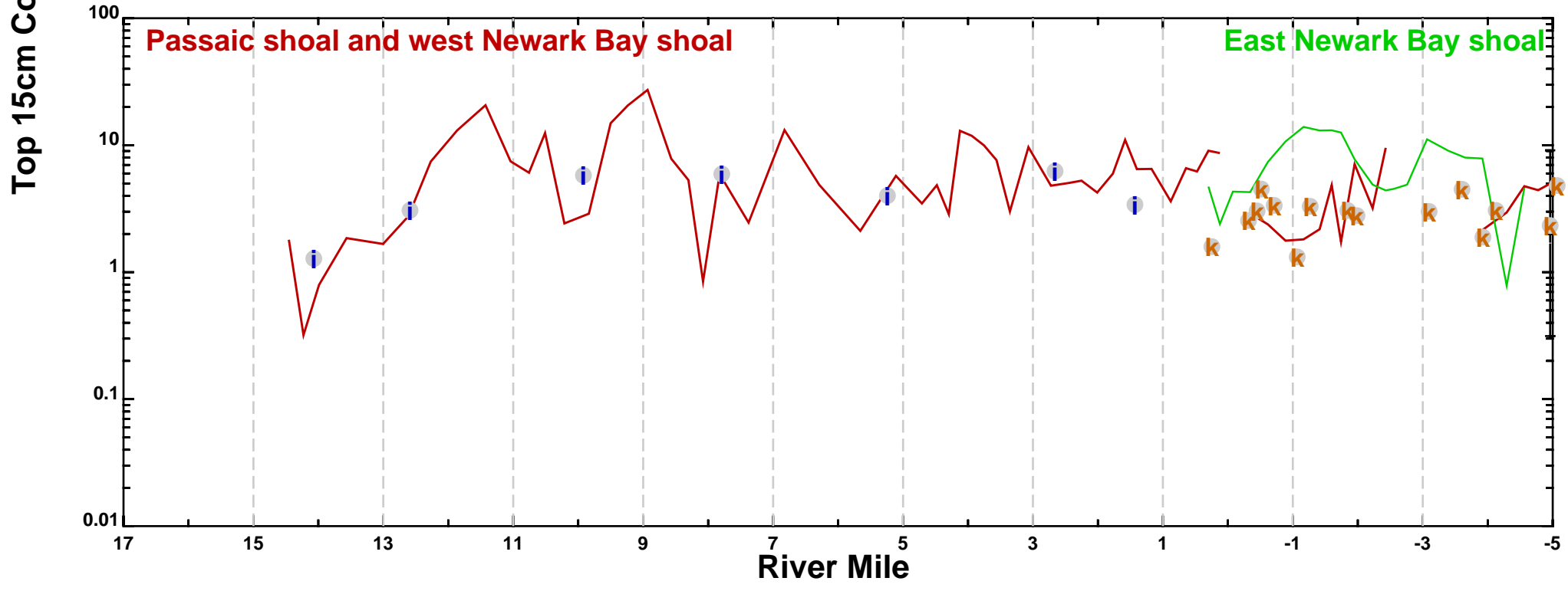
Year =2007.0

BZ#077 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

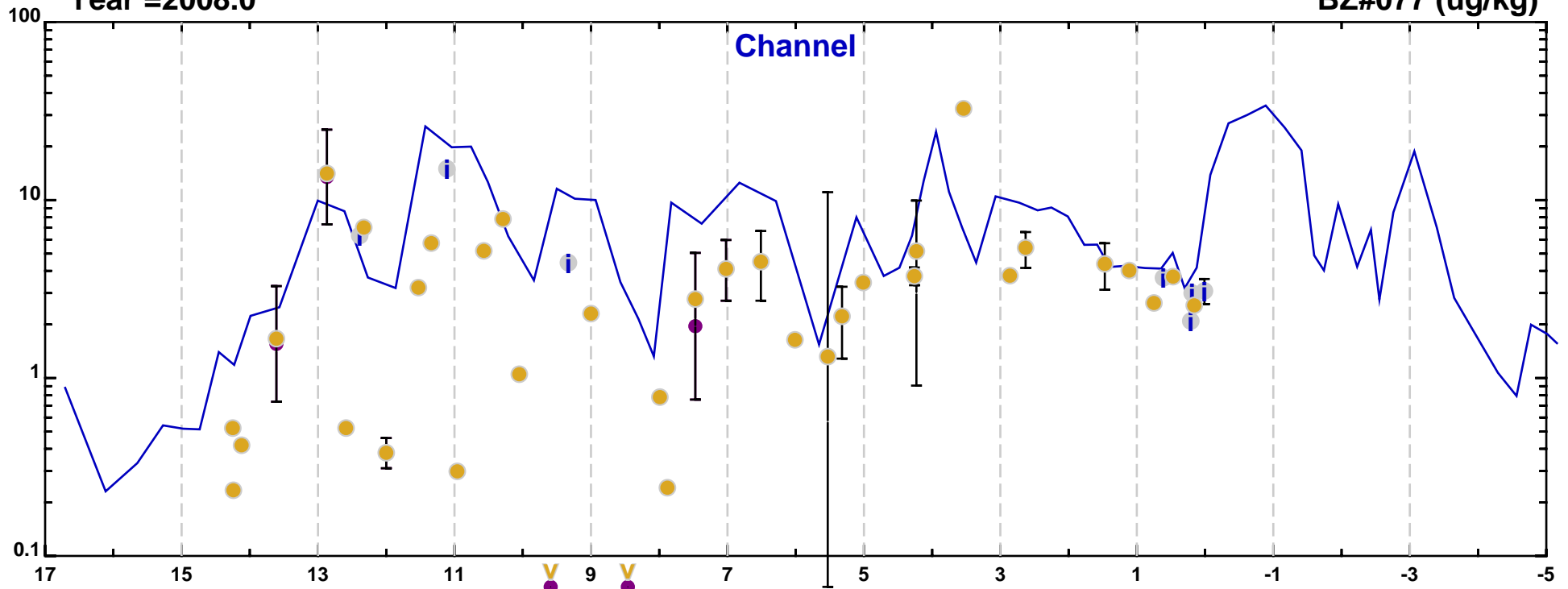


Year =2008.0

BZ#077 (ug/kg)

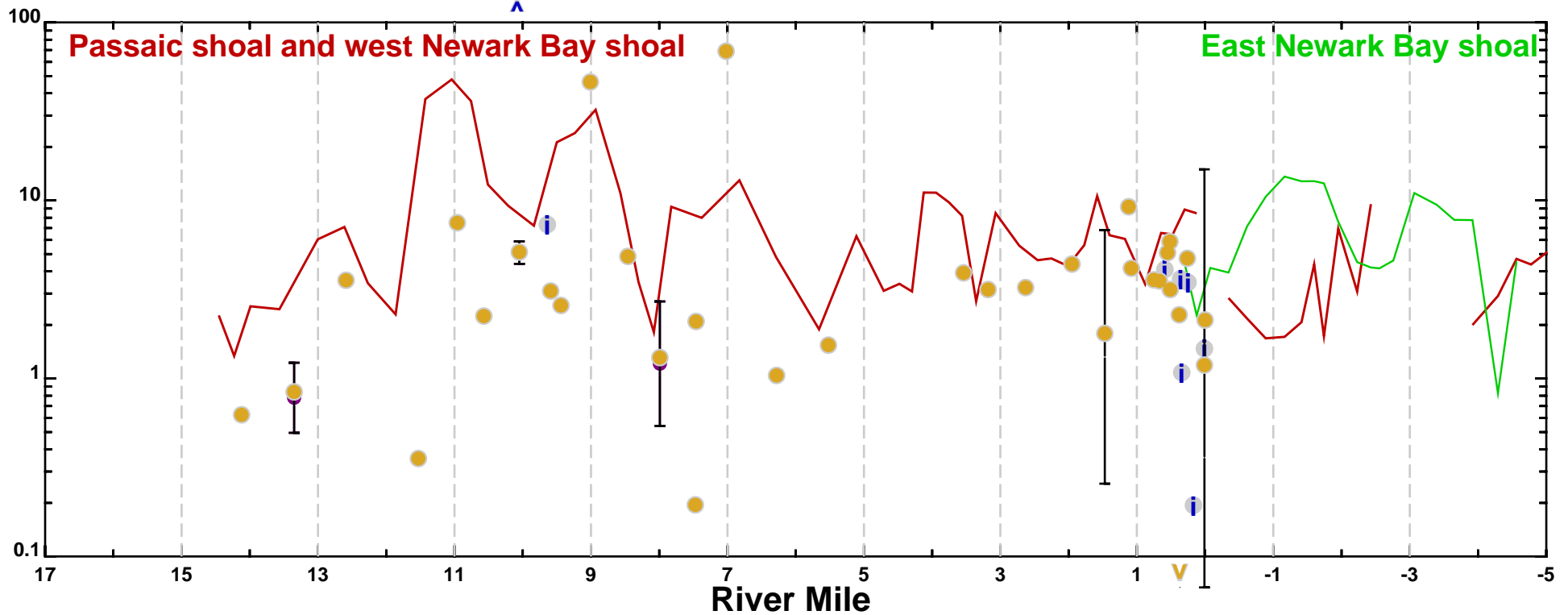
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

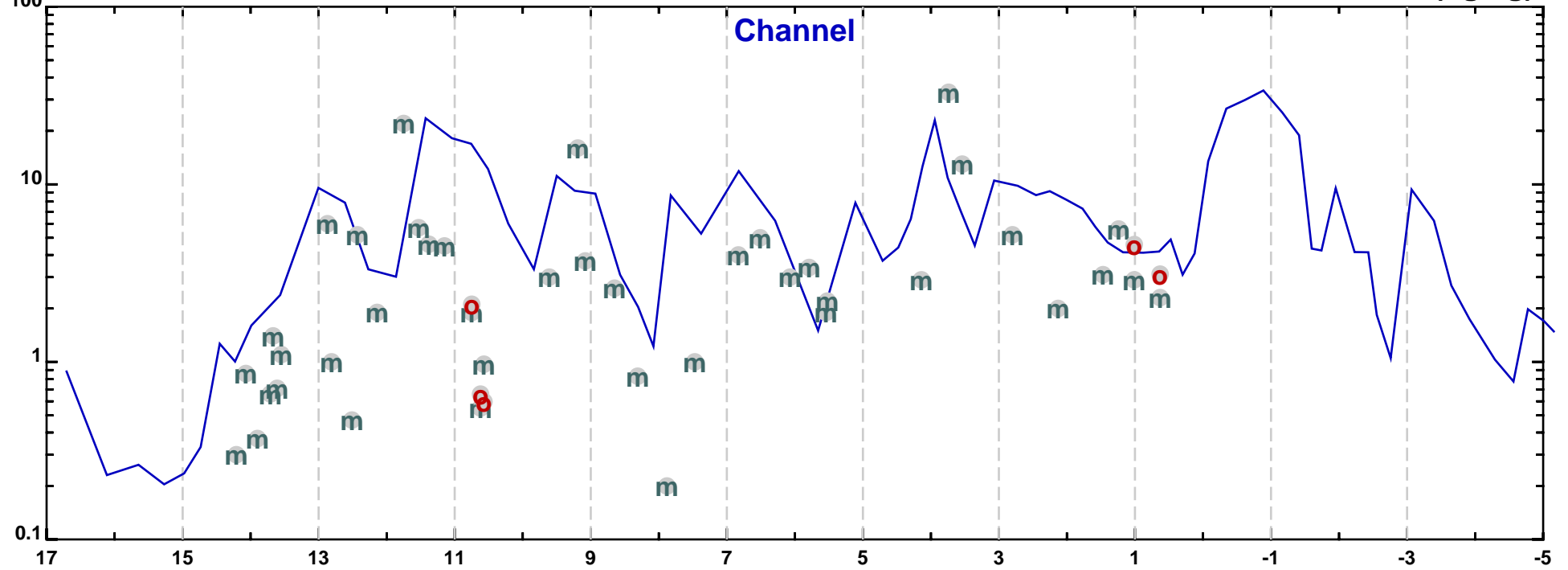


River Mile

Year =2009.0

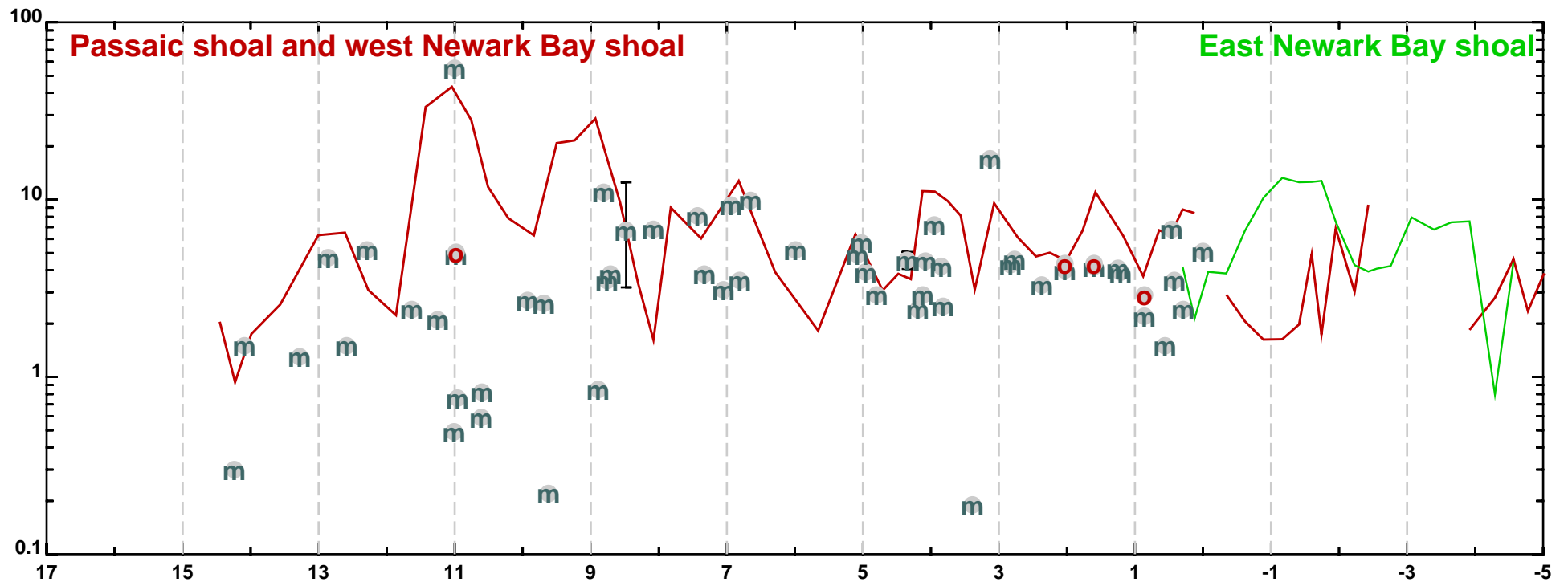
BZ#077 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



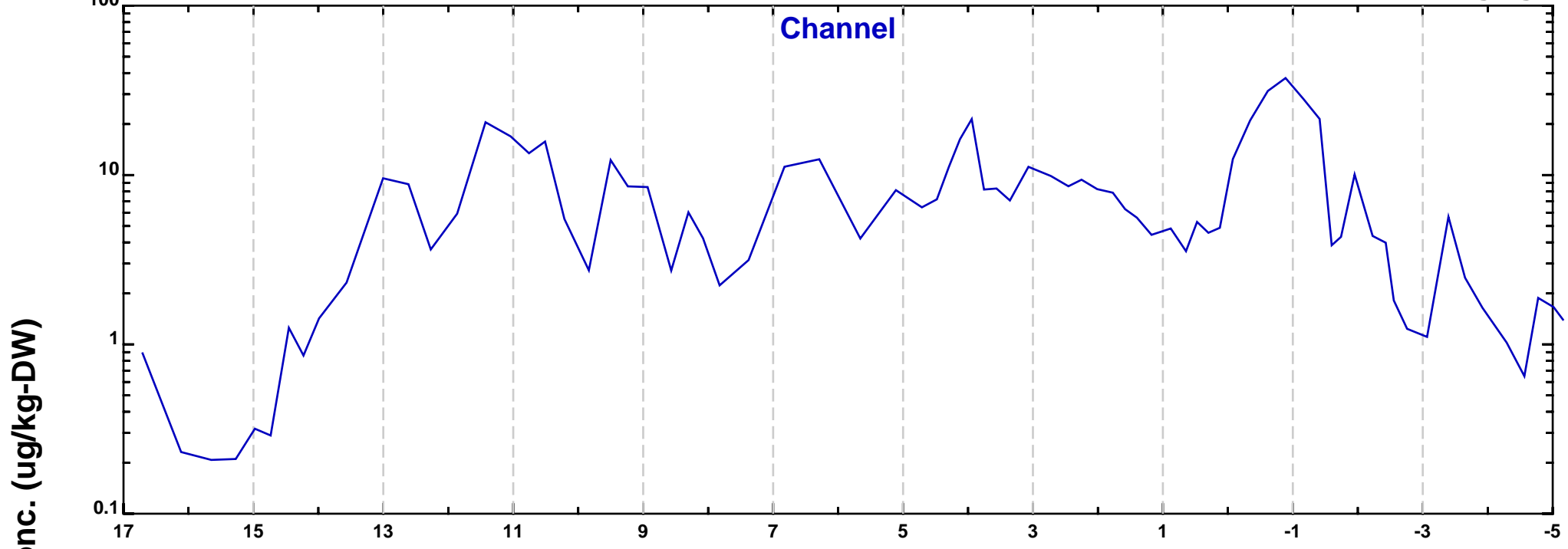
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



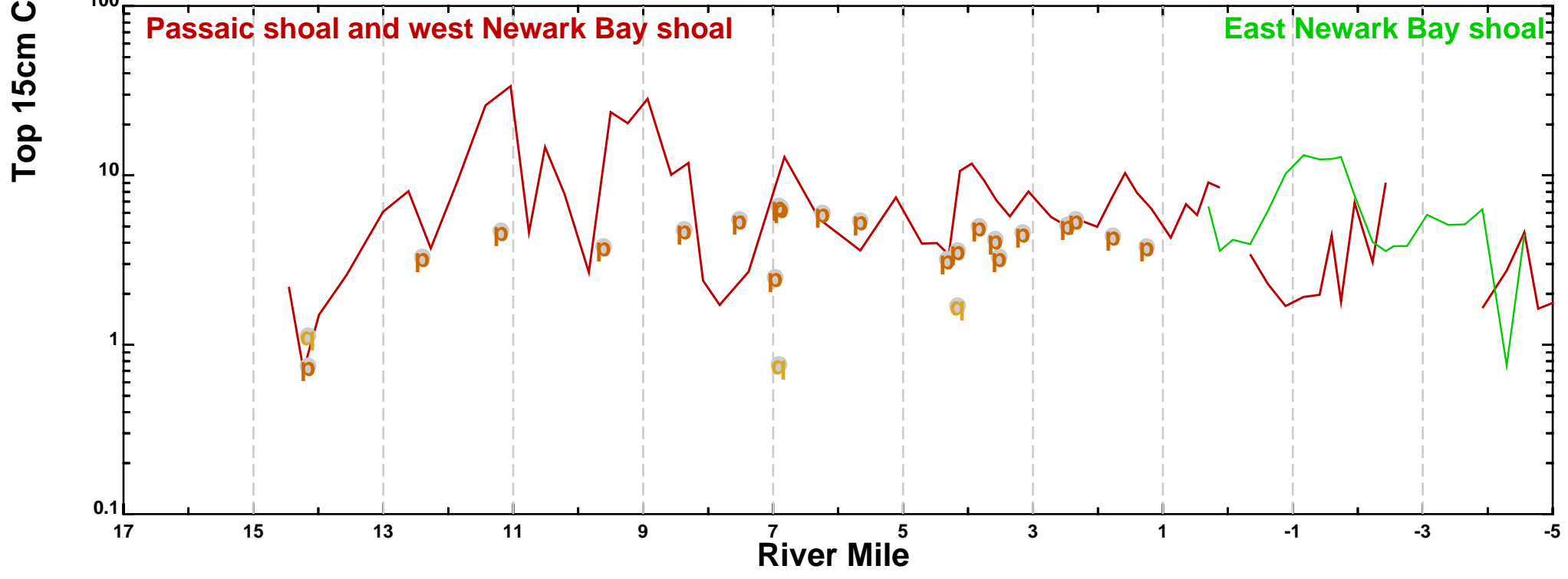
Year =2010.0

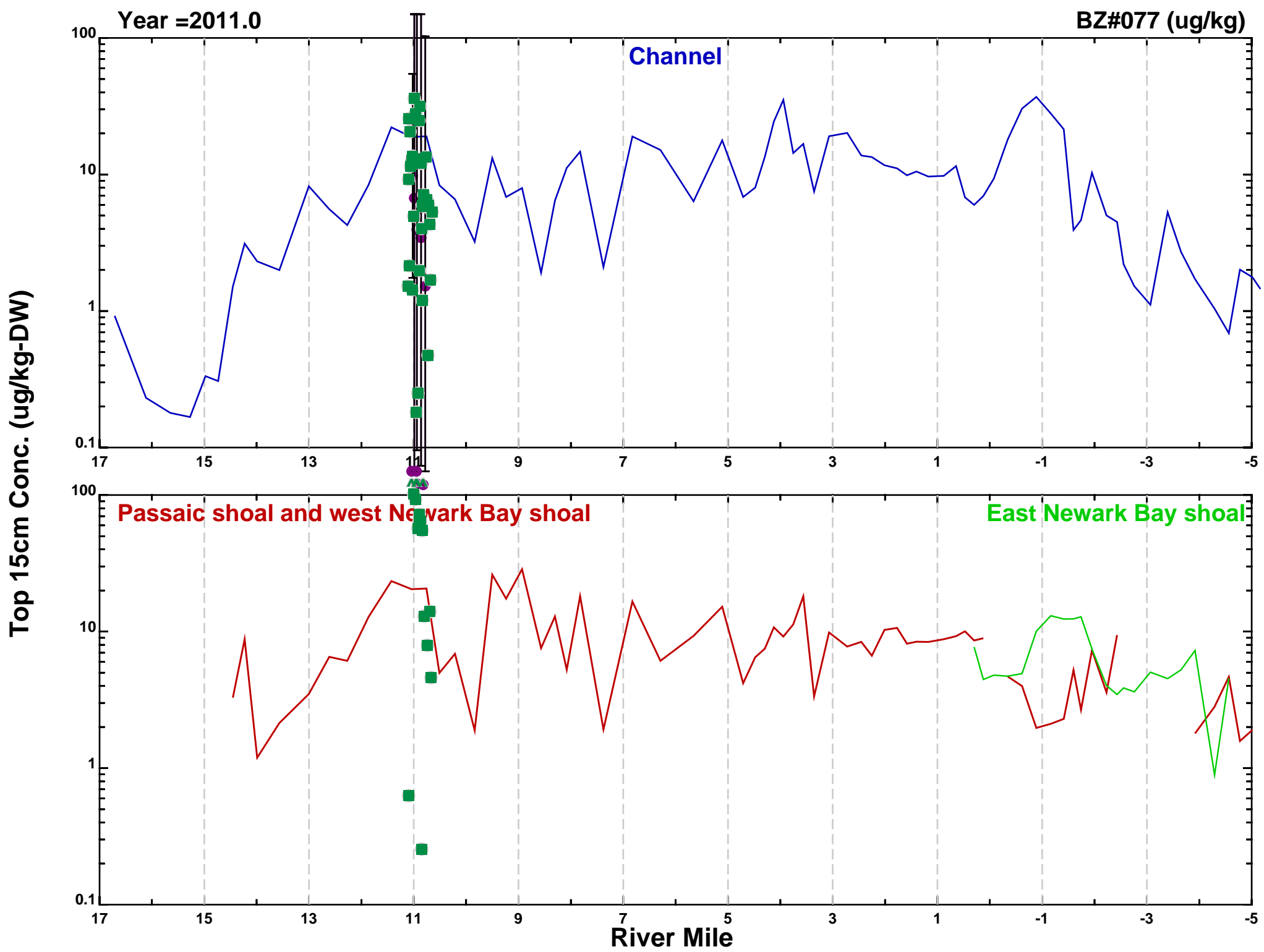
BZ#077 (ug/kg)



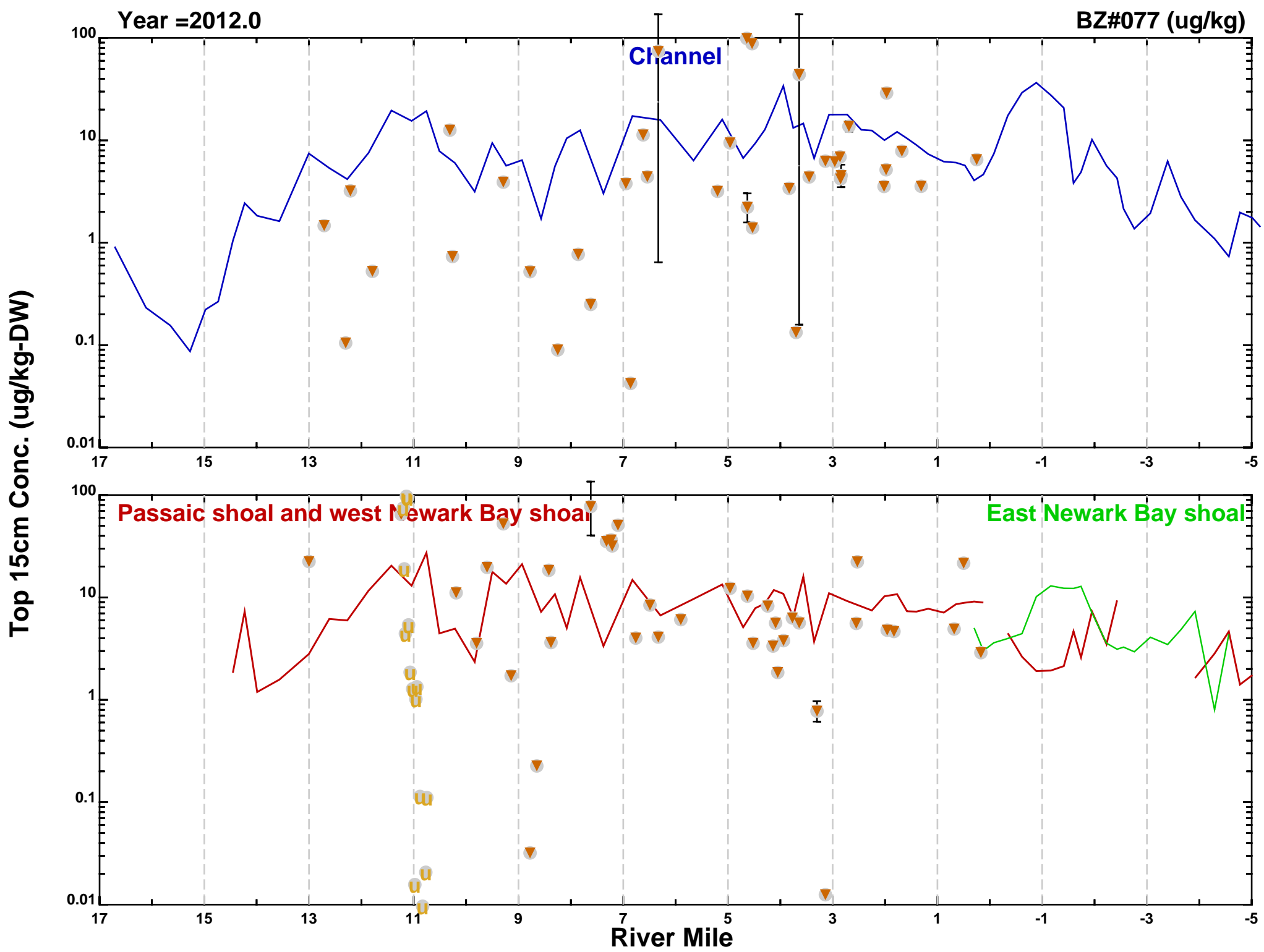
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



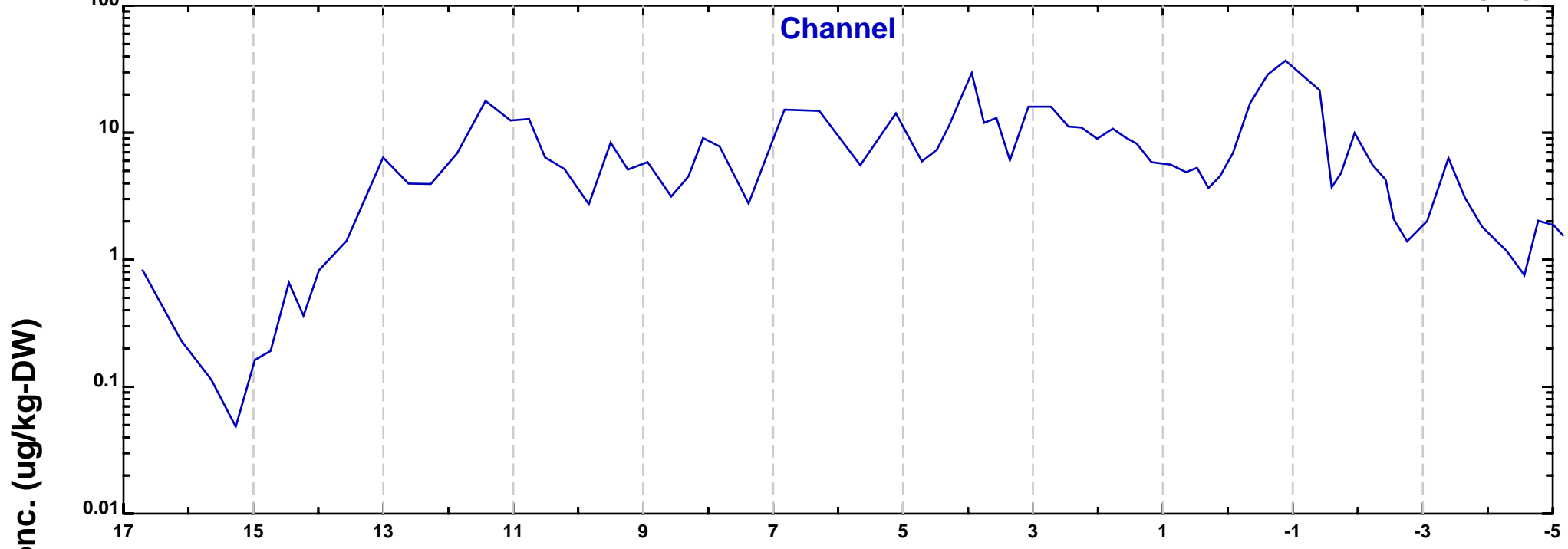






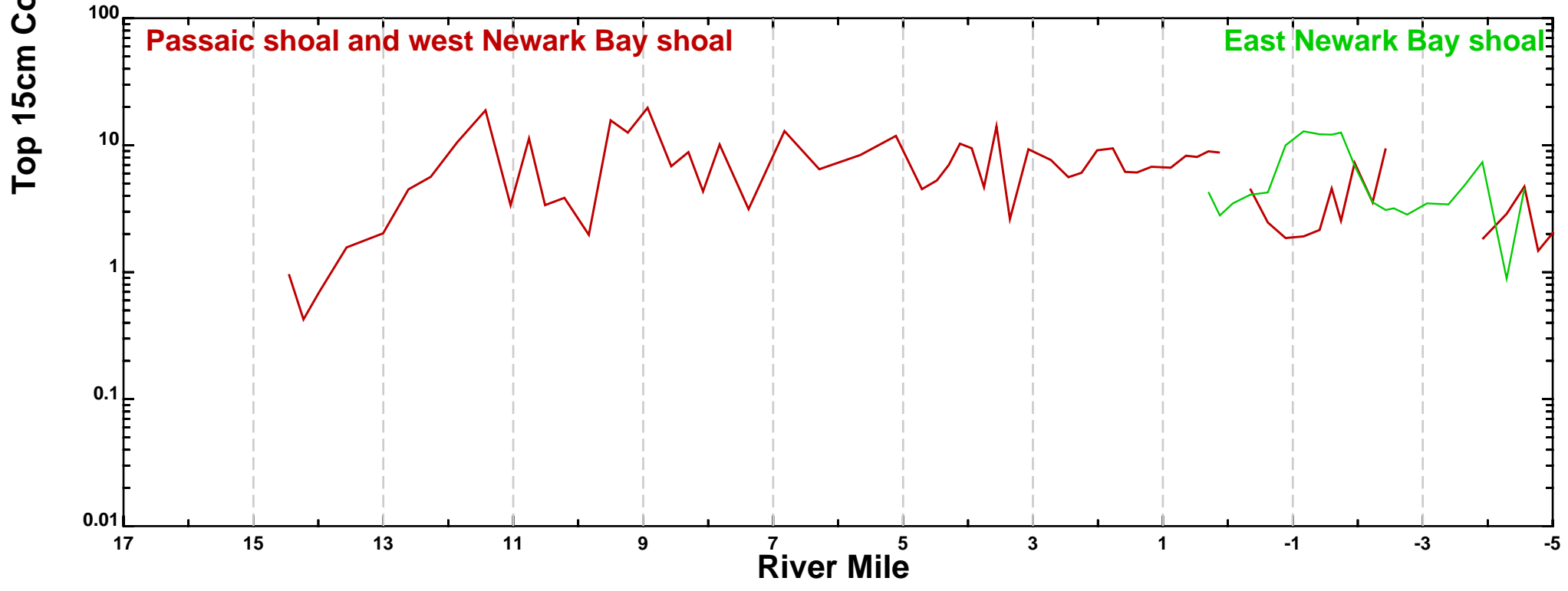
Year =2013.0

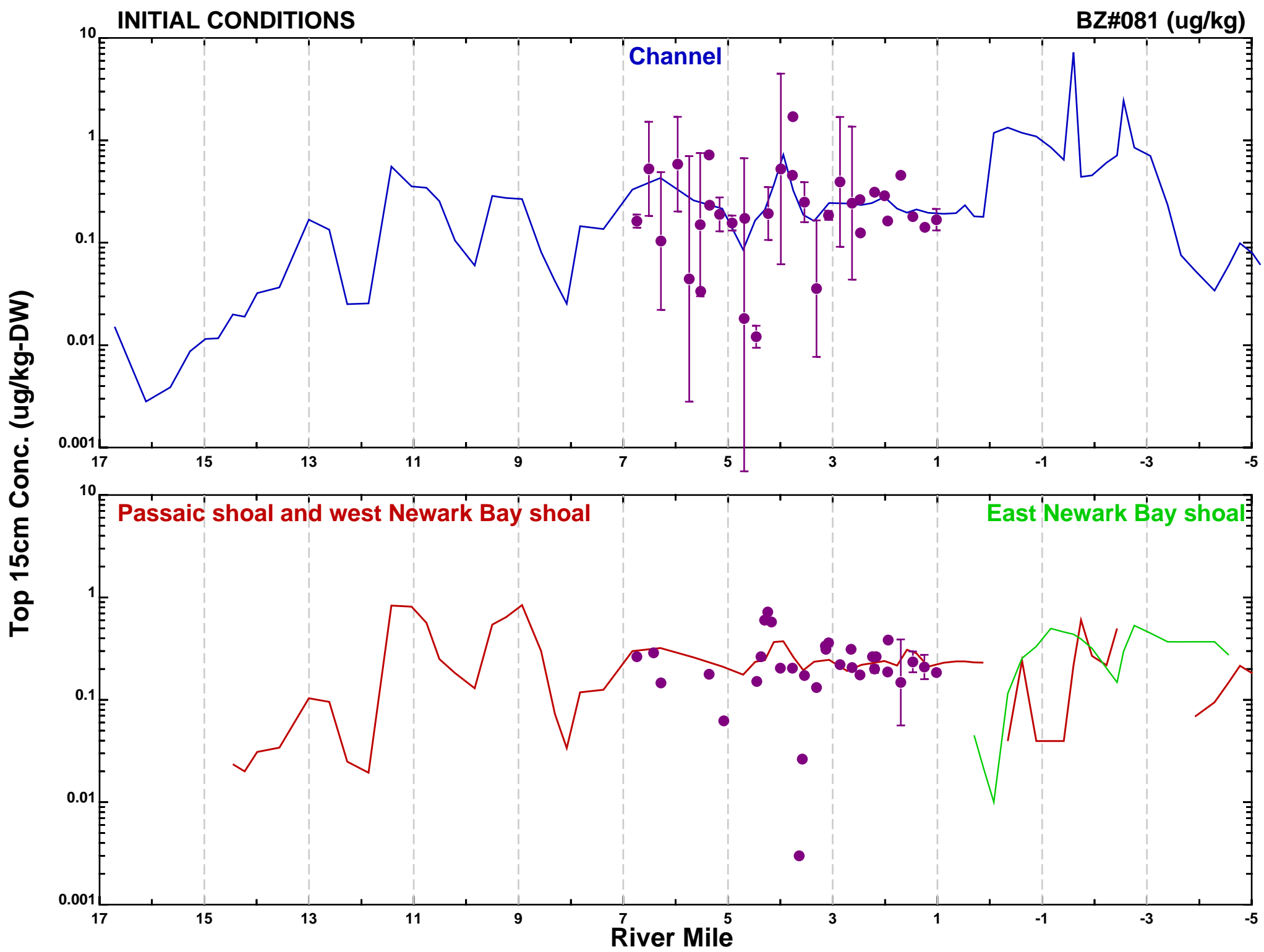
BZ#077 (ug/kg)



Passaic shoal and west Newark Bay shoal

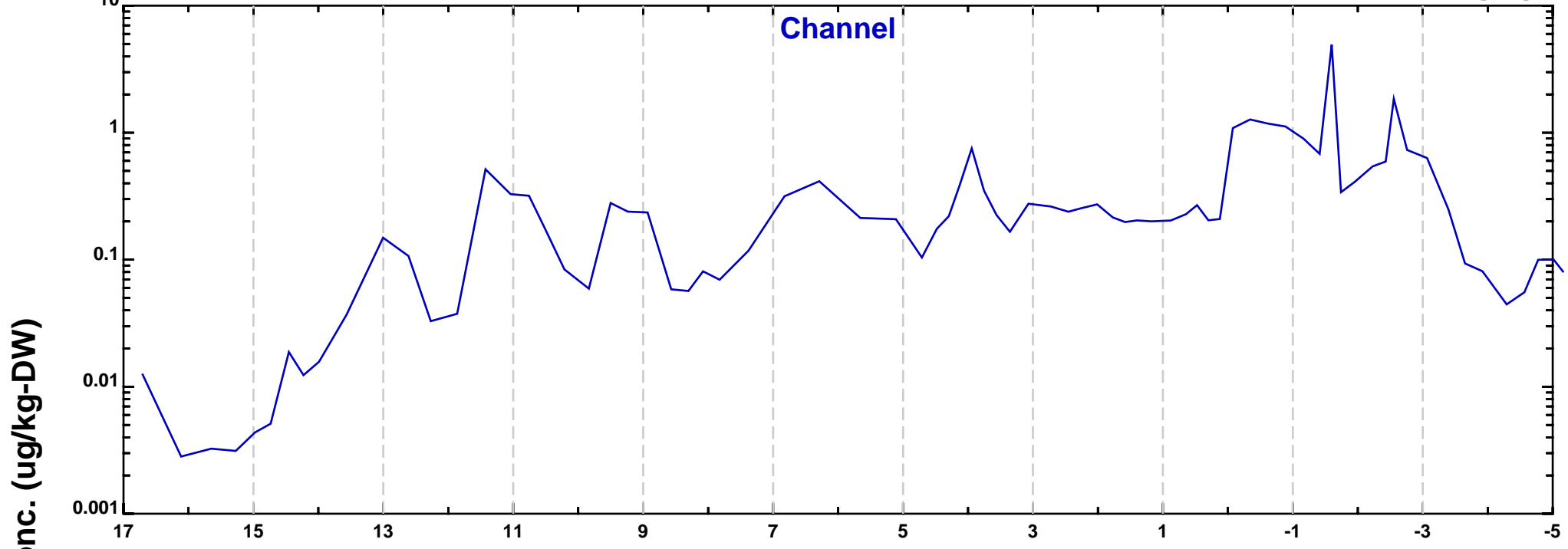
East Newark Bay shoal





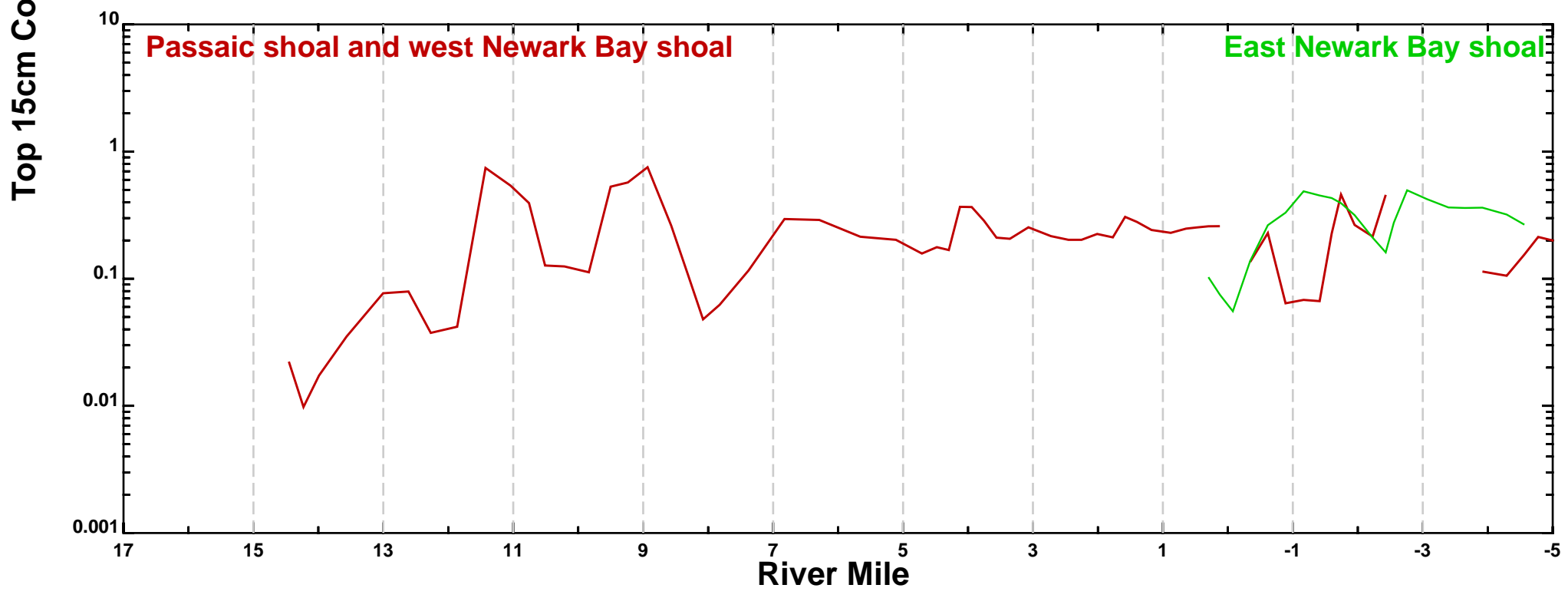
Year = 1996.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



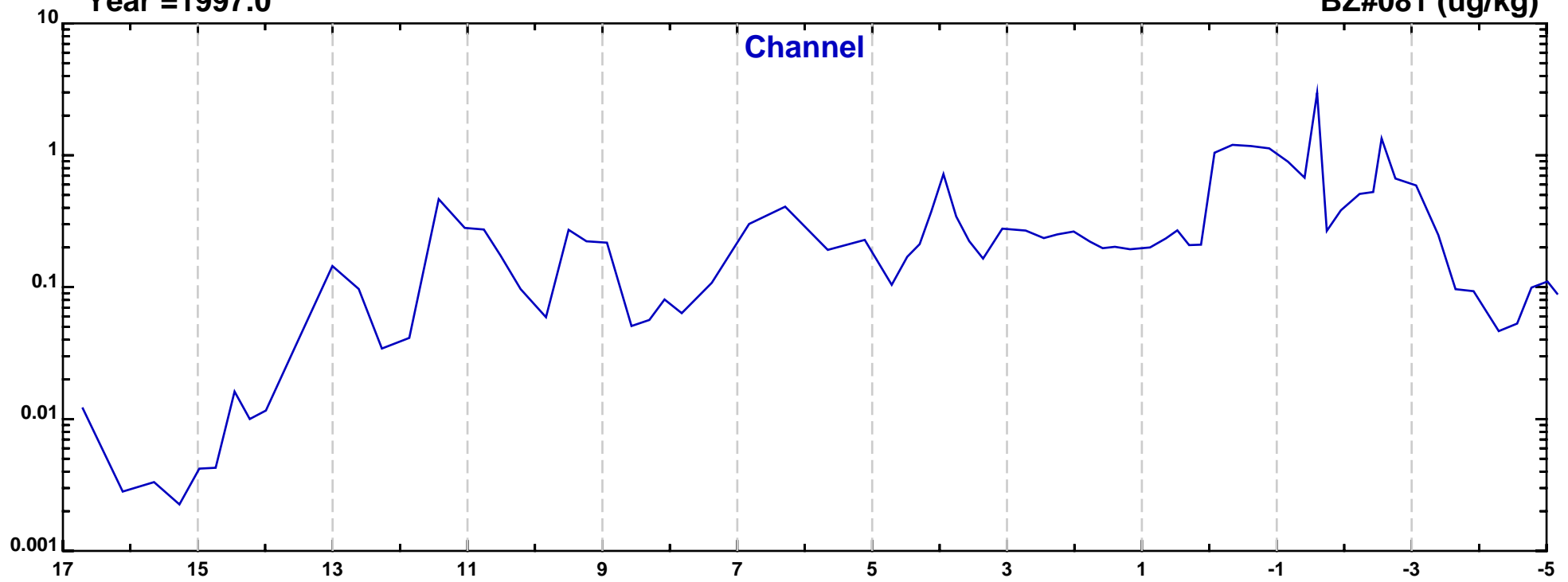
River Mile

Year = 1997.0

BZ#081 (ug/kg)

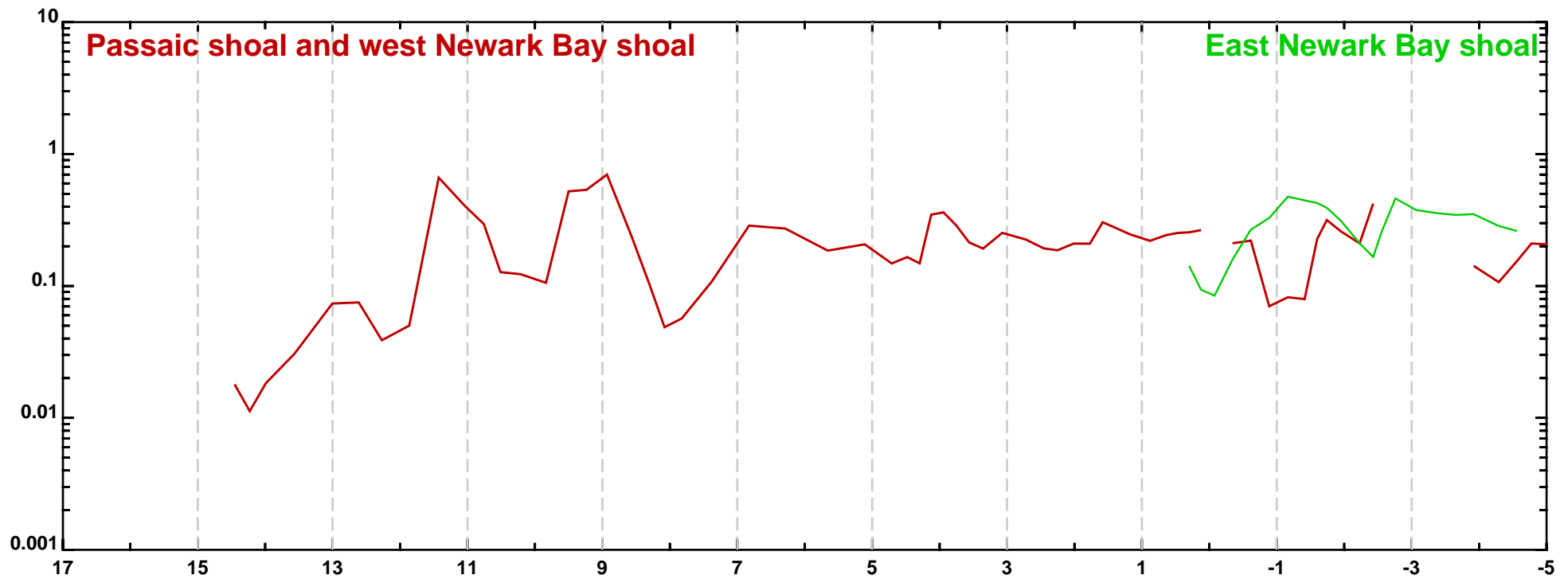
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

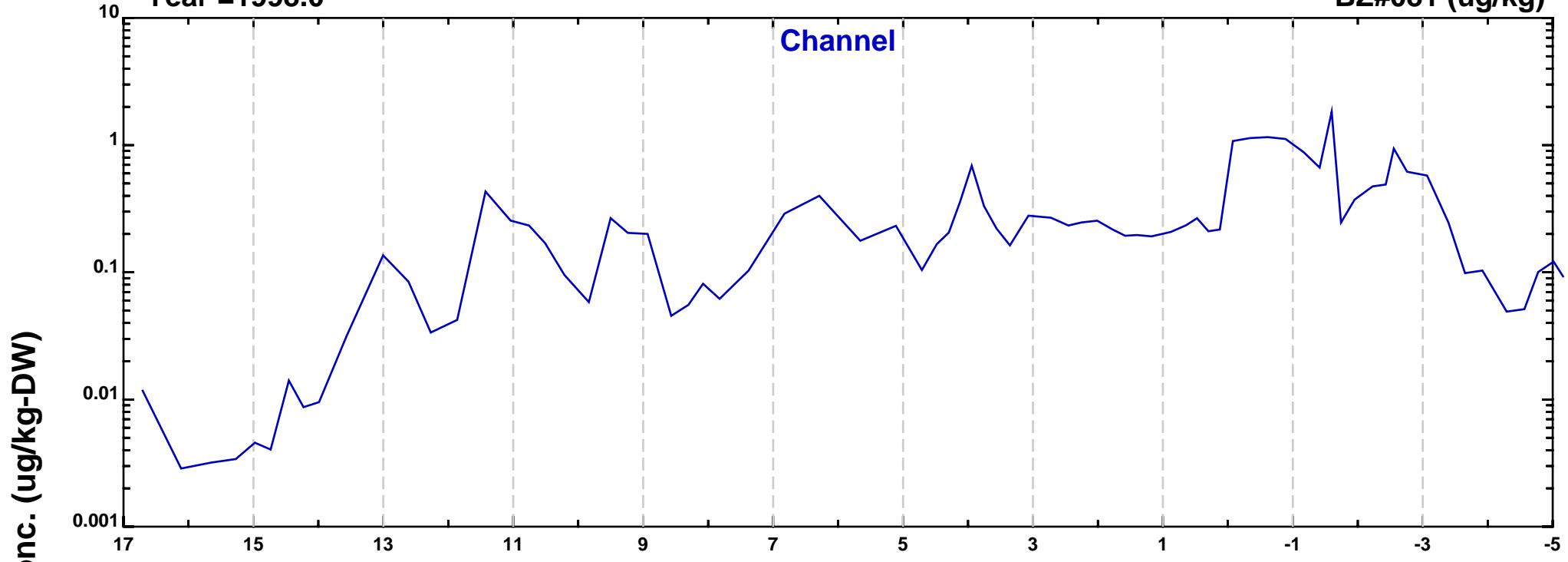
East Newark Bay shoal



River Mile

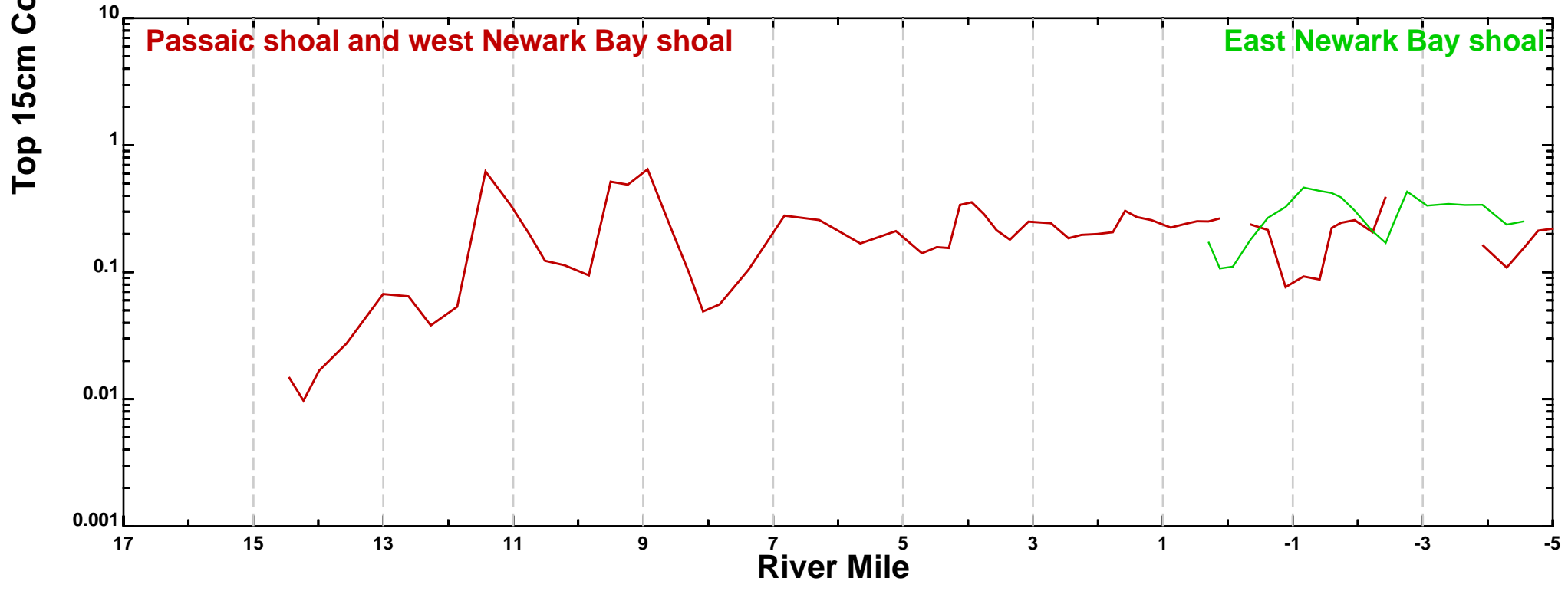
Year = 1998.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

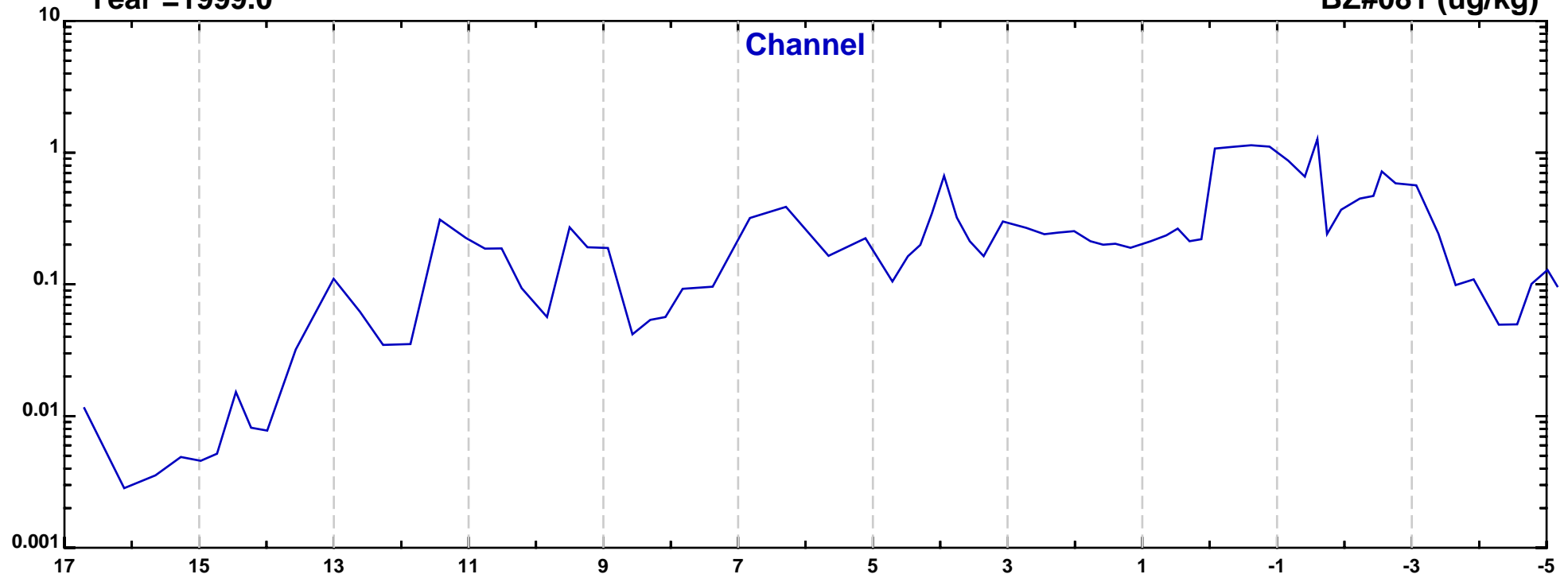
East Newark Bay shoal



Year = 1999.0

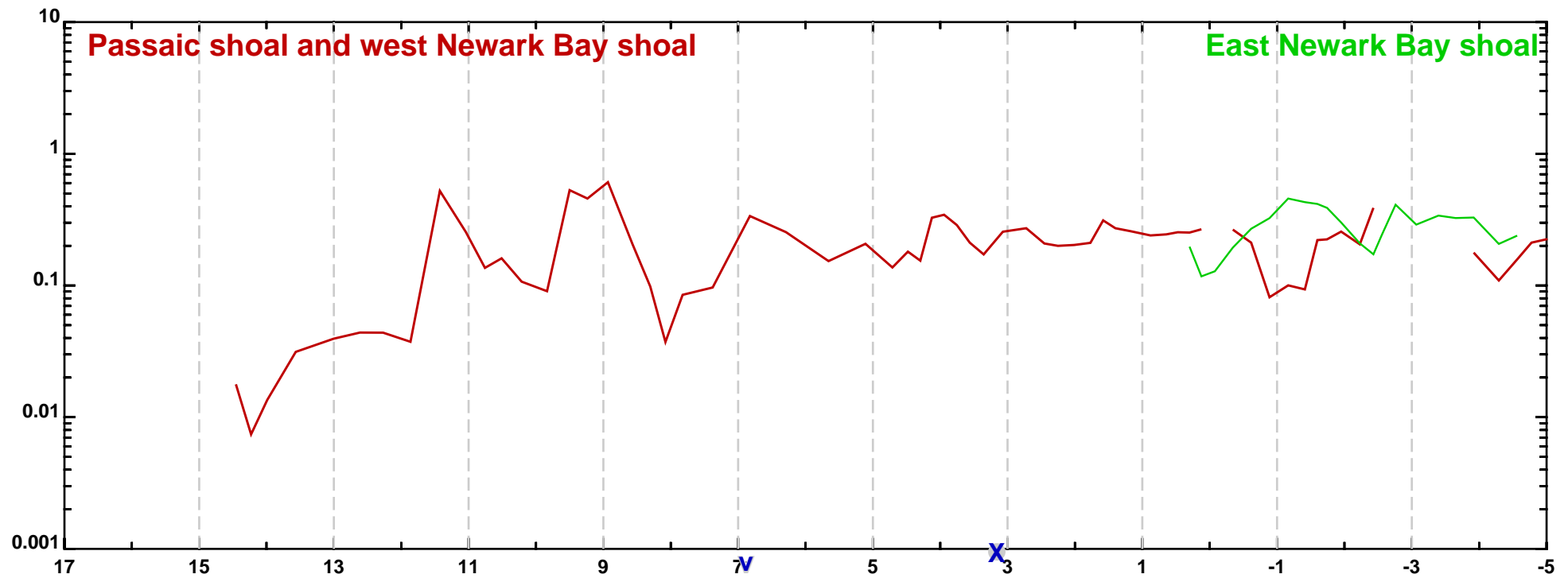
BZ#081 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

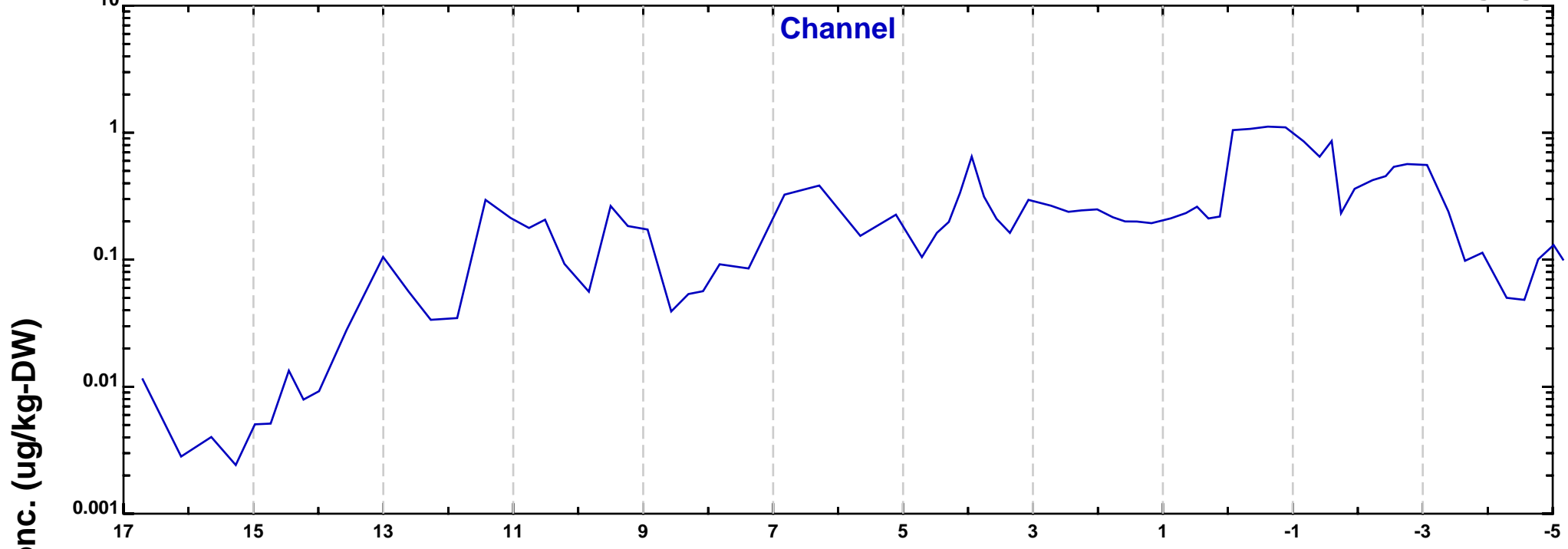
East Newark Bay shoal



River Mile

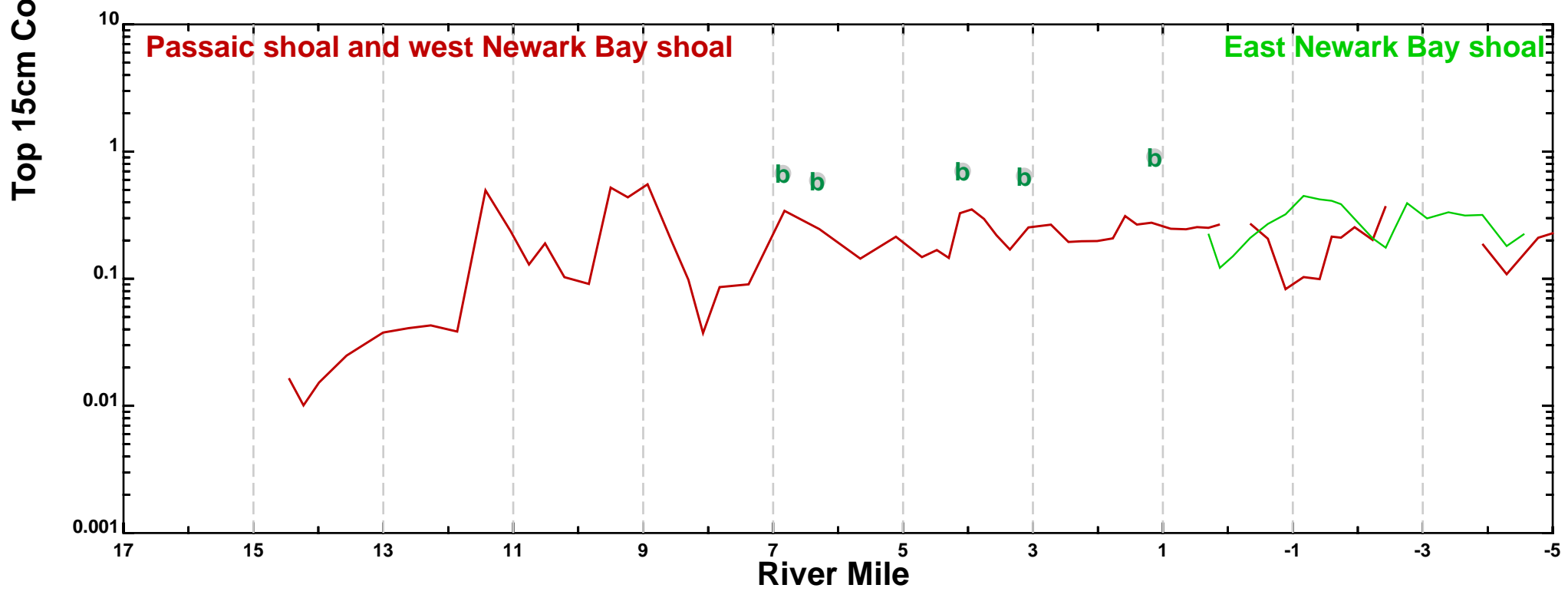
Year =2000.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

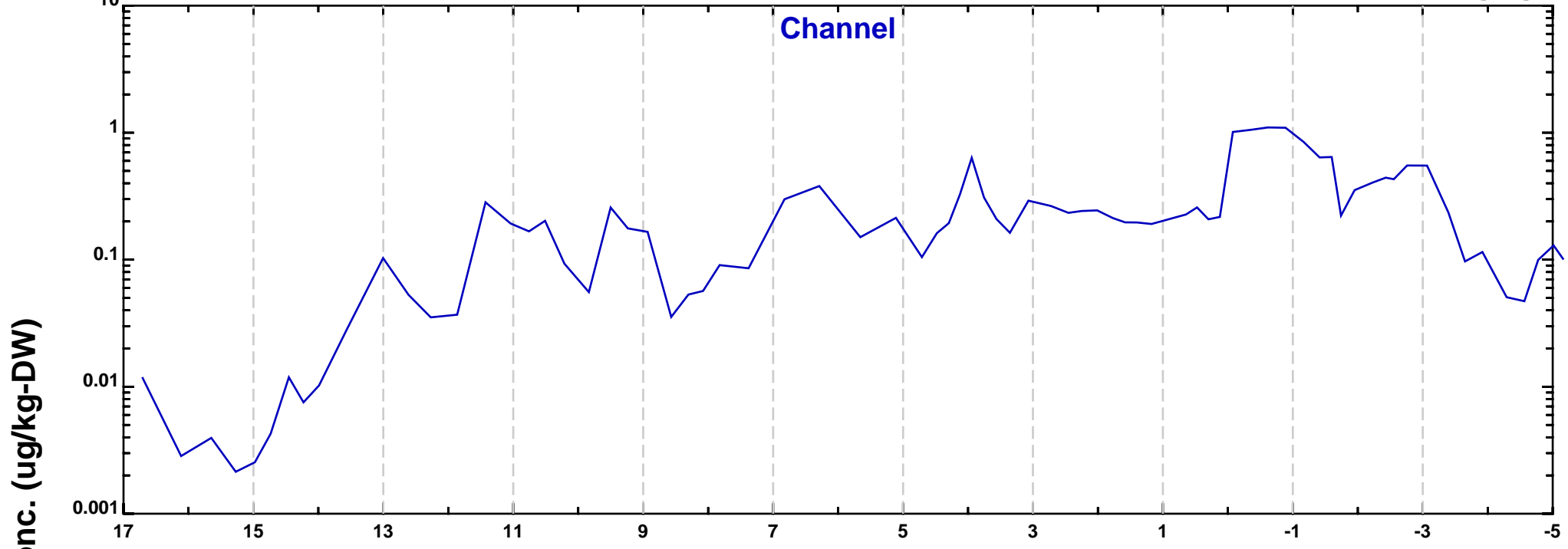
East Newark Bay shoal





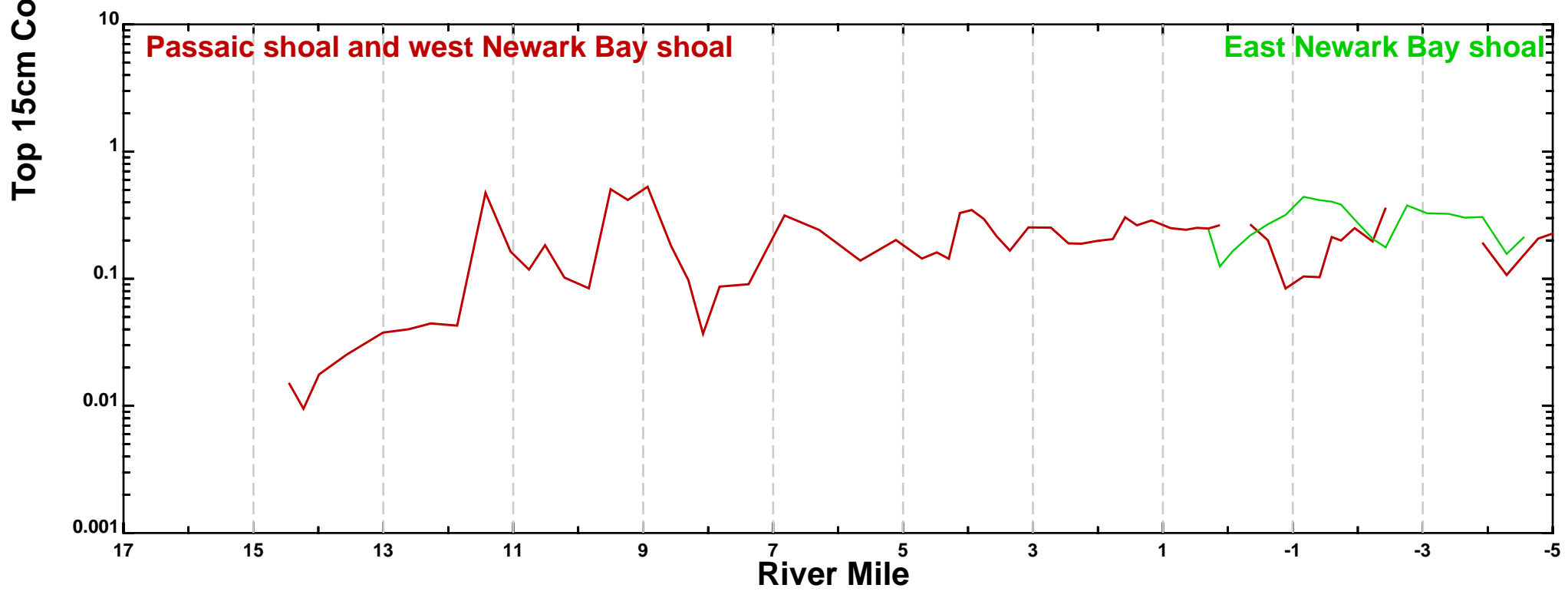
Year =2001.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

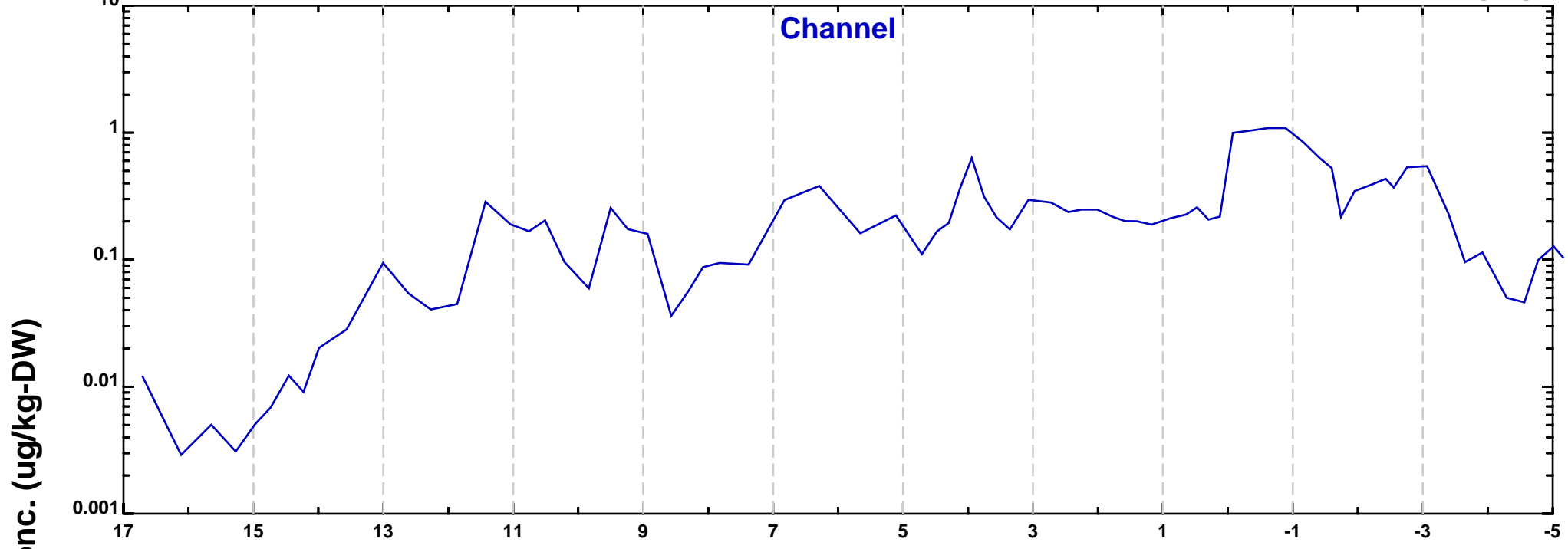
East Newark Bay shoal



River Mile

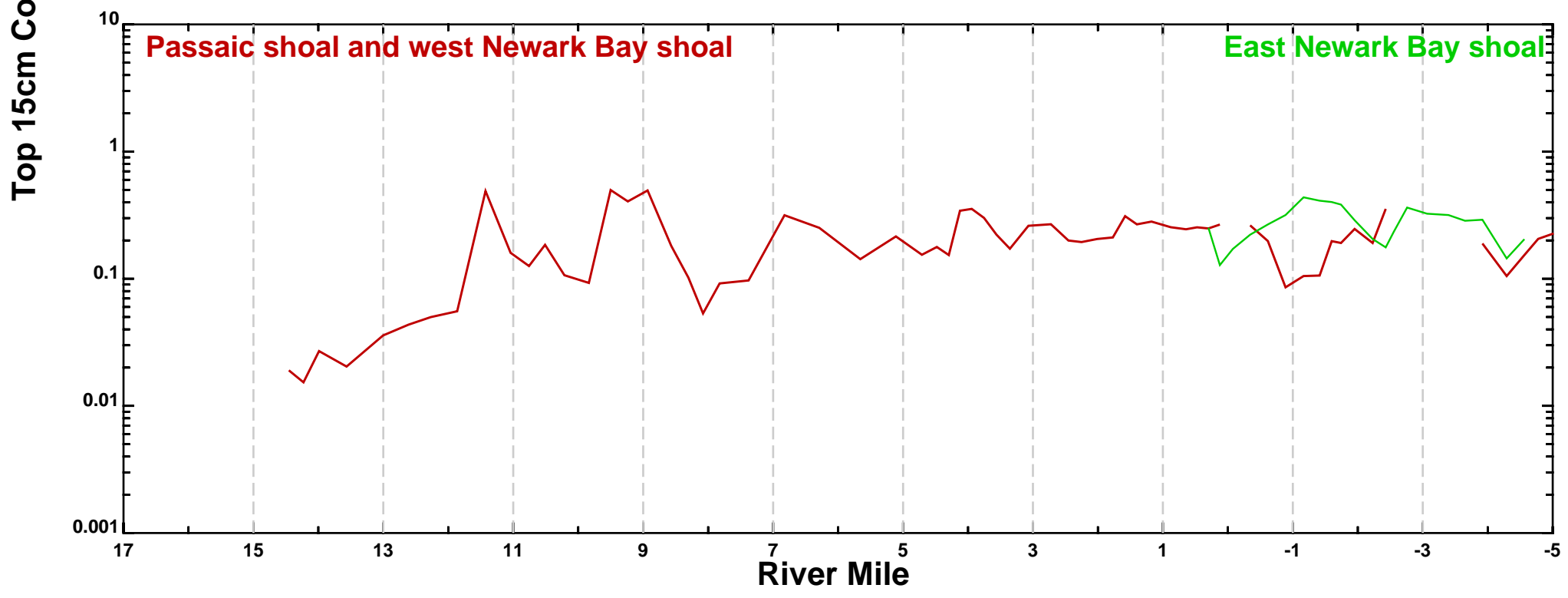
Year =2002.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

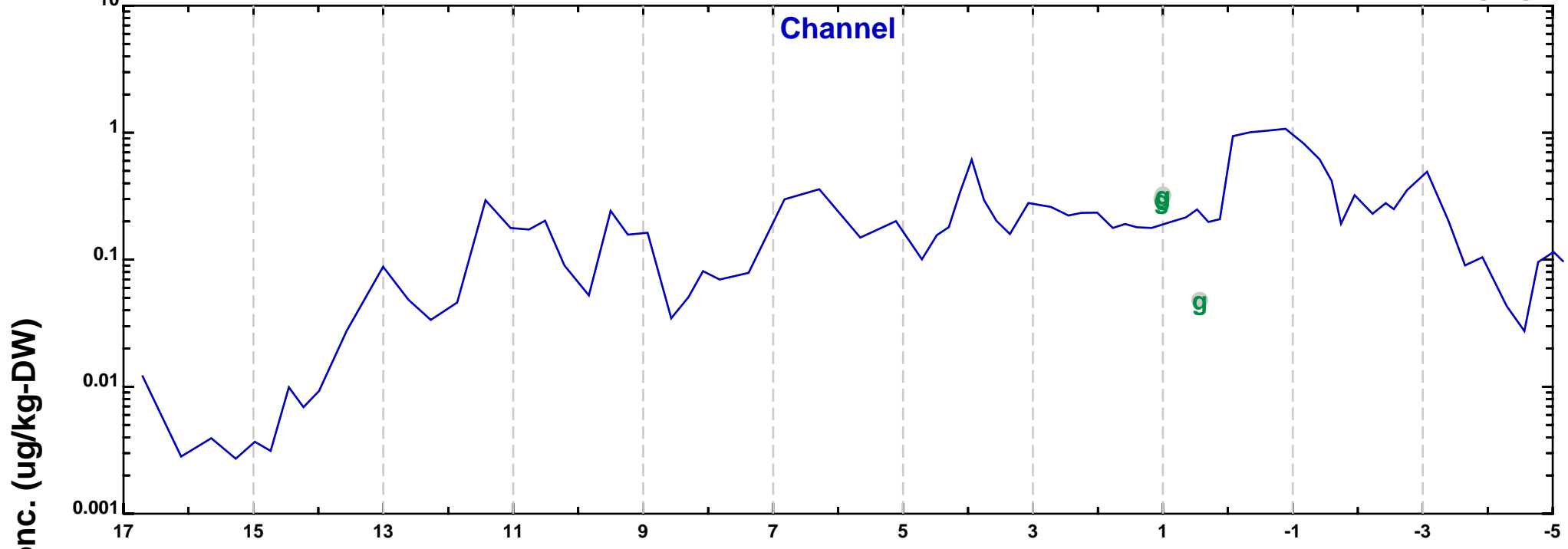
East Newark Bay shoal



River Mile

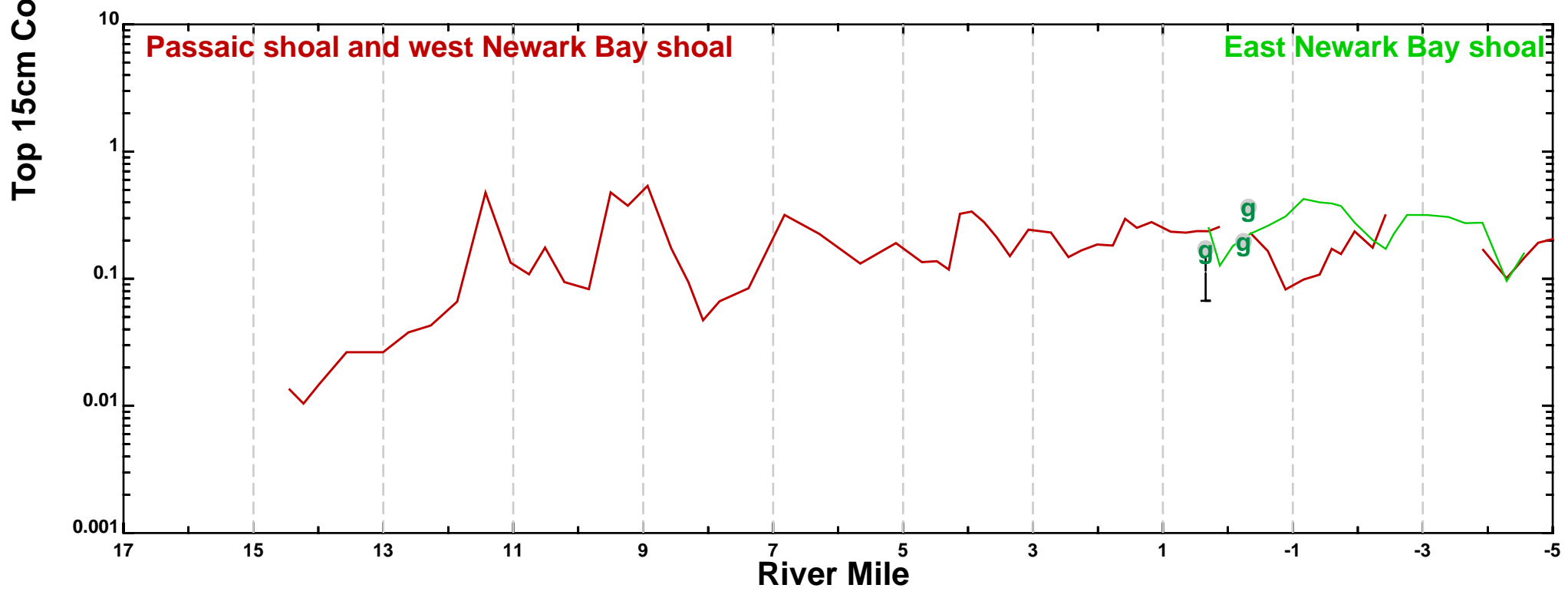
Year =2003.0

BZ#081 (ug/kg)



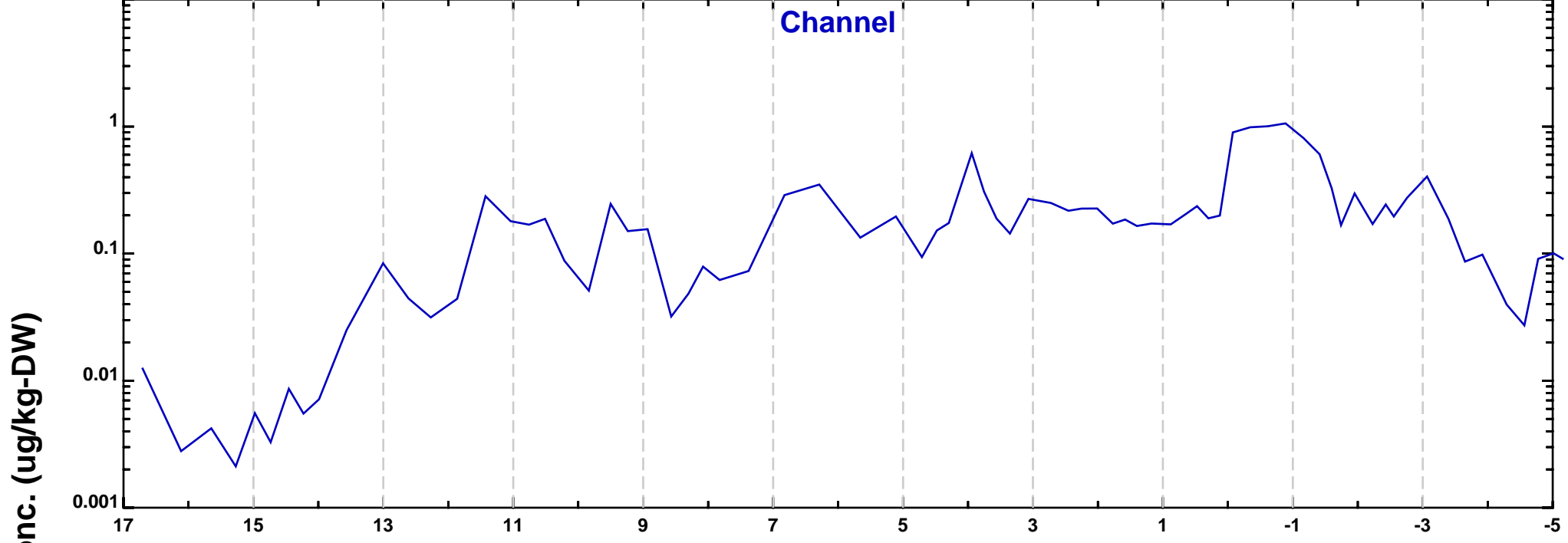
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



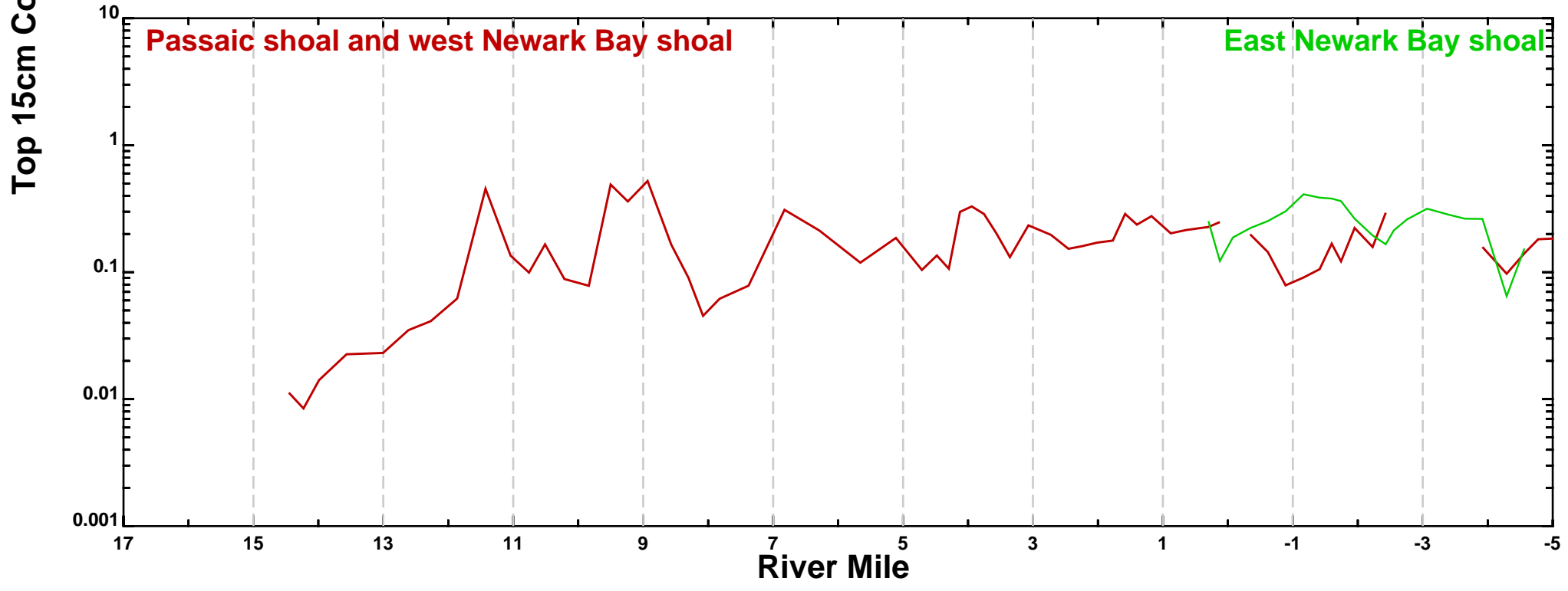
Year =2004.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

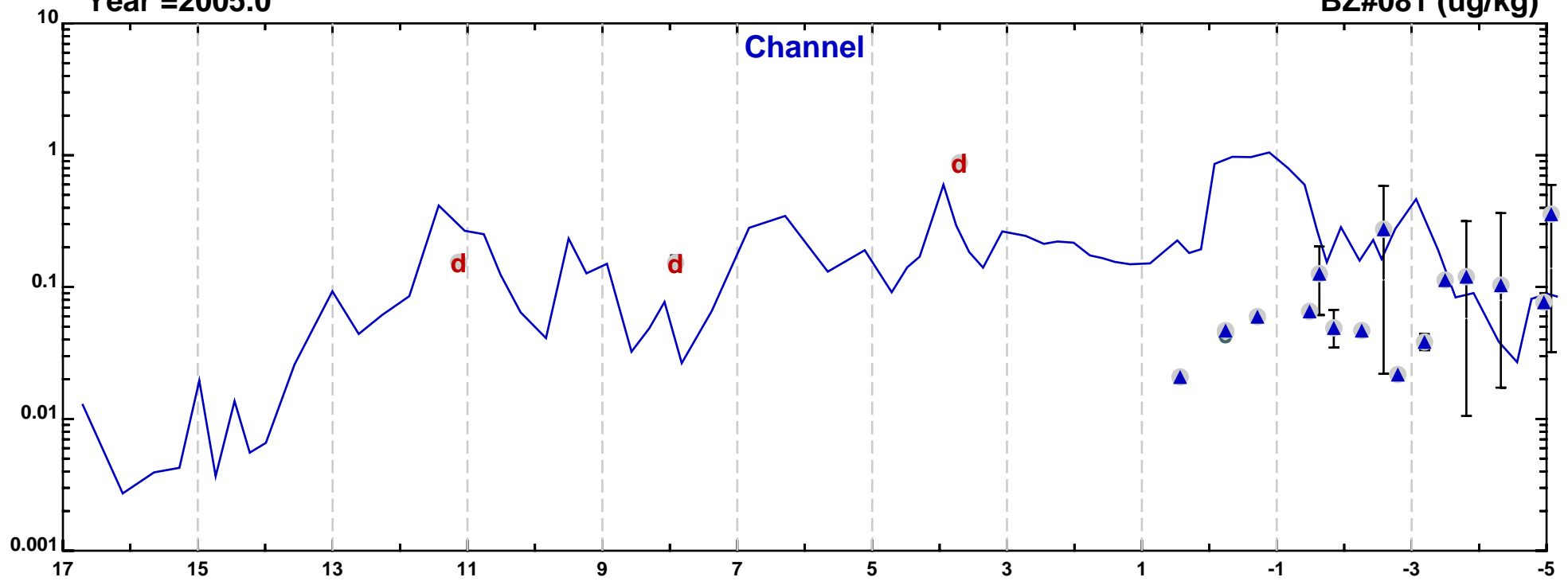


Year =2005.0

BZ#081 (ug/kg)

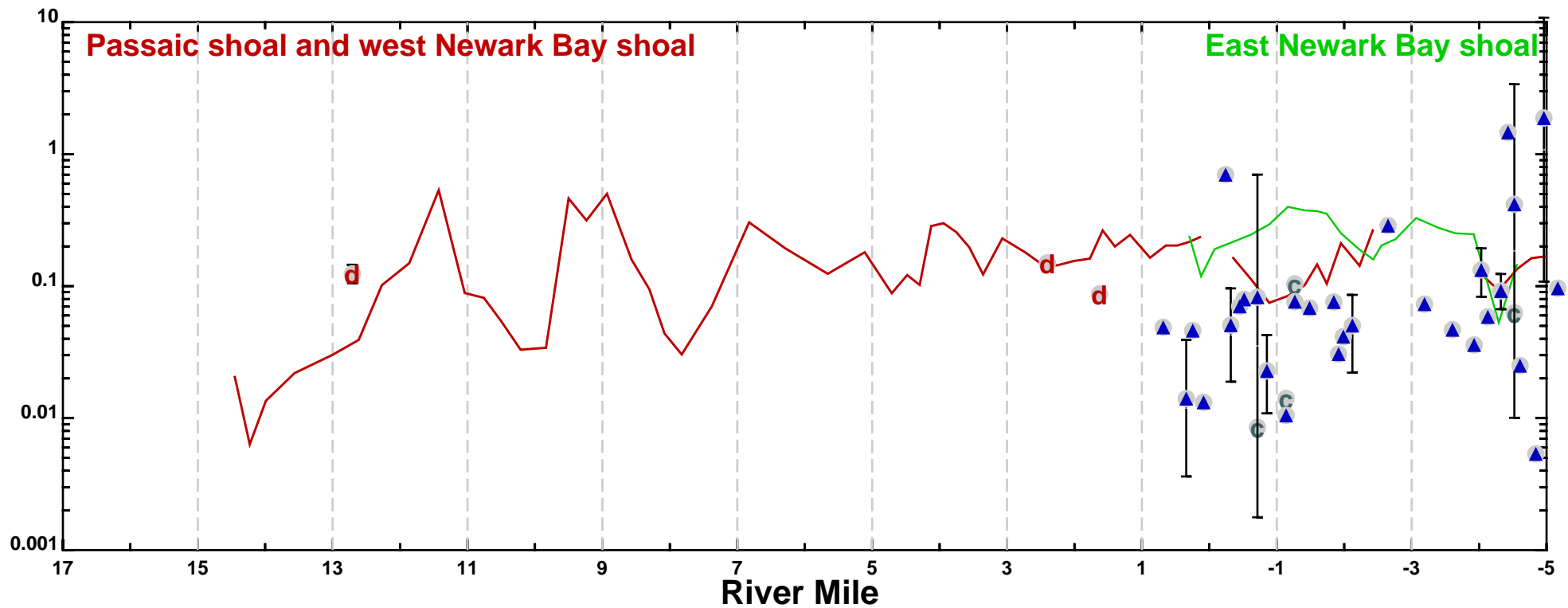
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

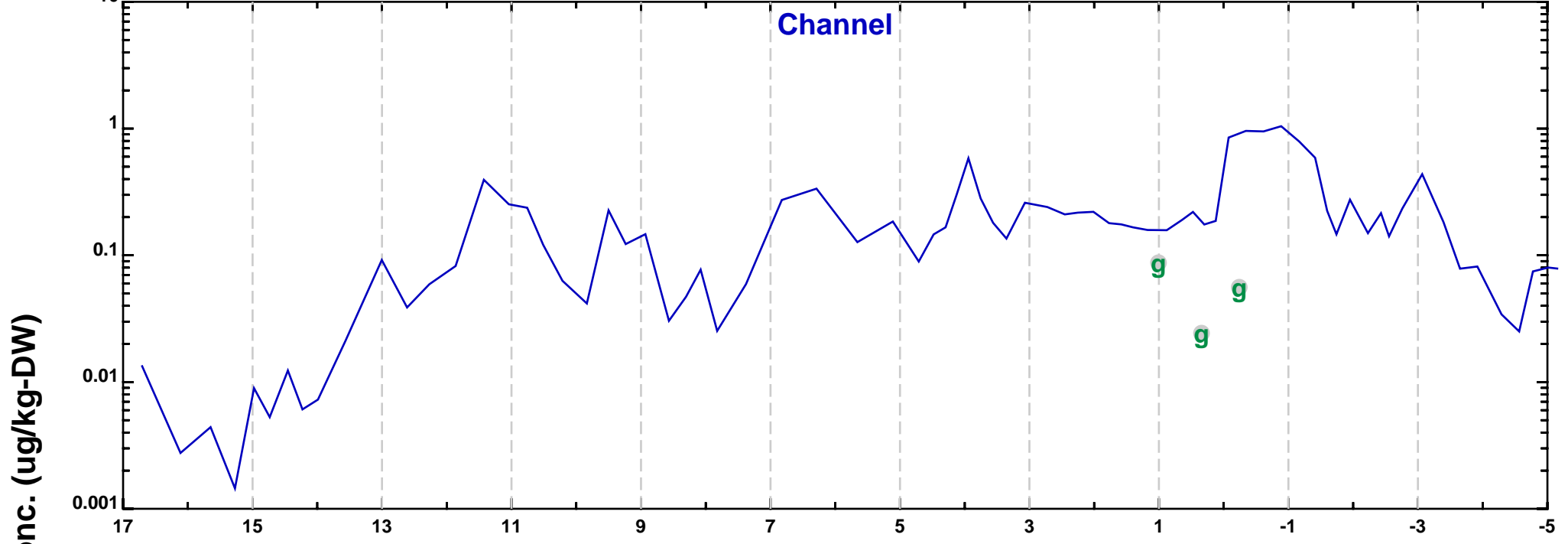
East Newark Bay shoal



River Mile

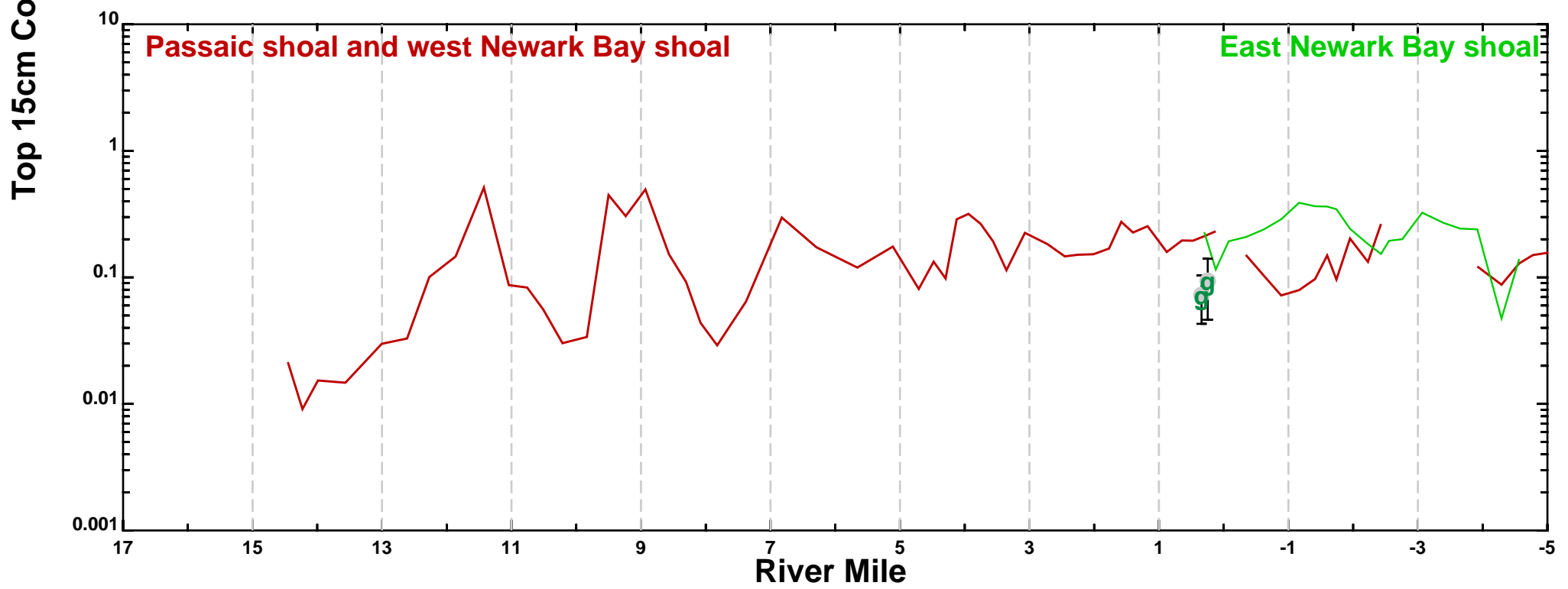
Year =2006.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

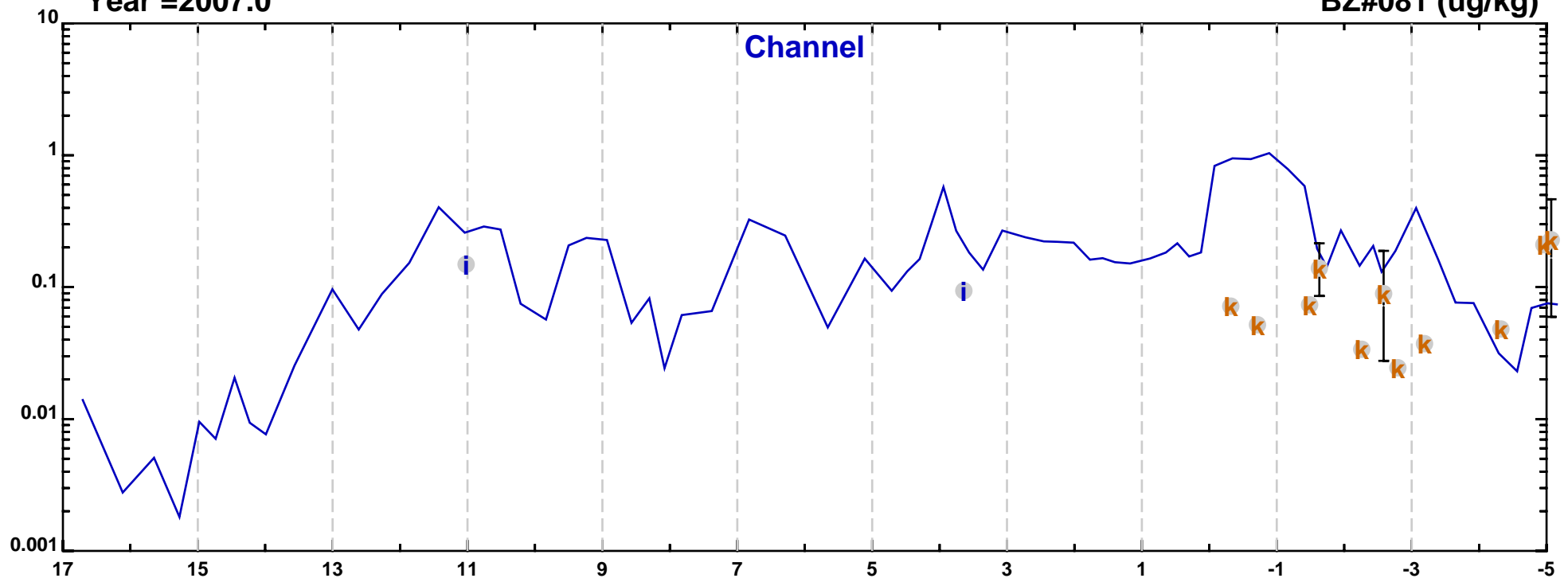


Year =2007.0

BZ#081 (ug/kg)

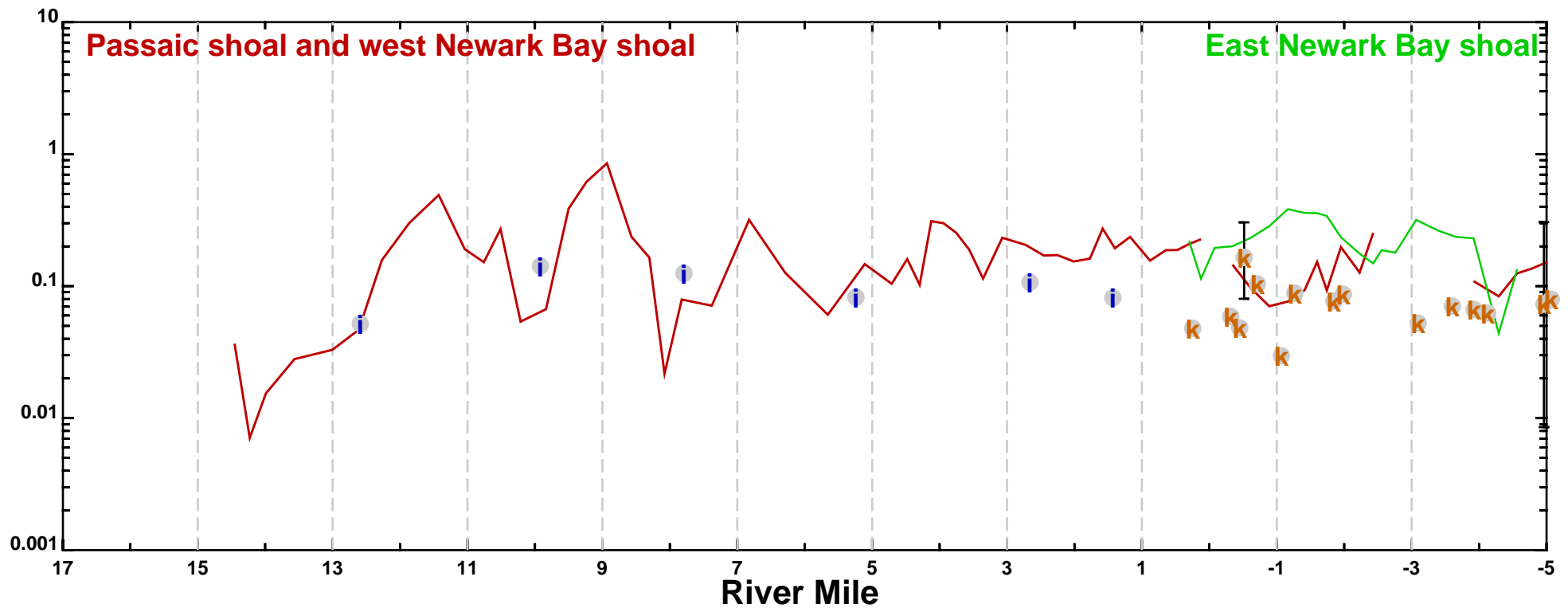
Top 15cm Conc. (ug/kg-DW)

Channel



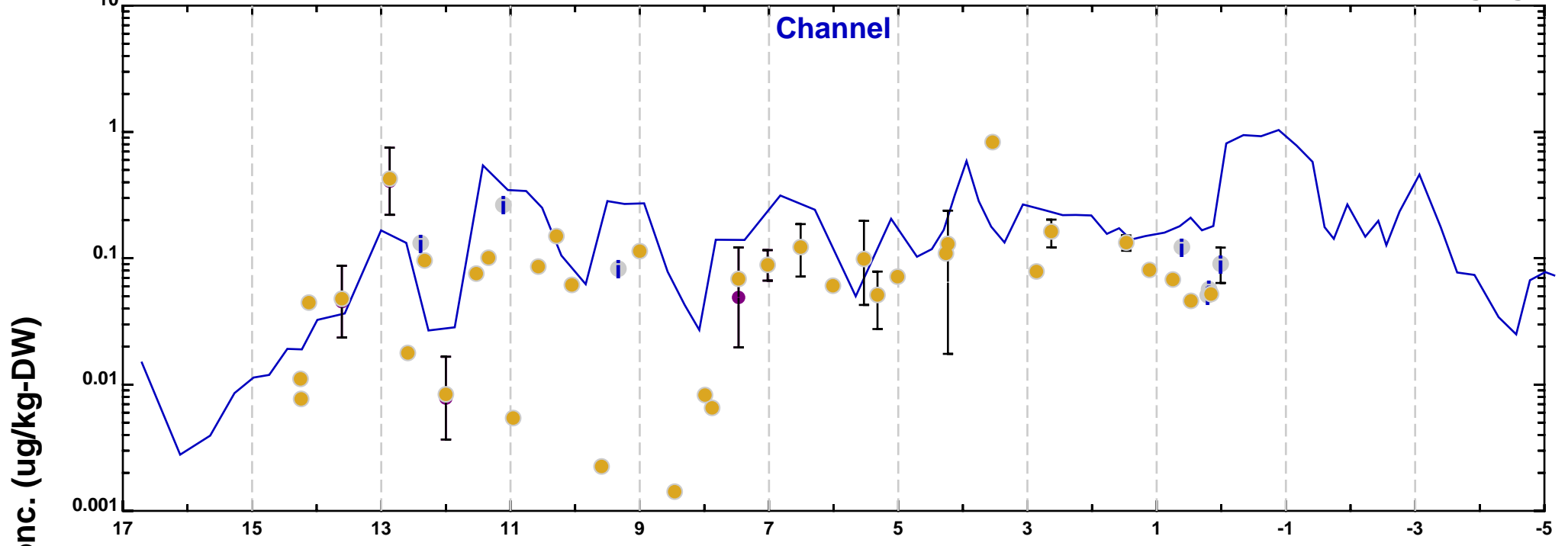
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



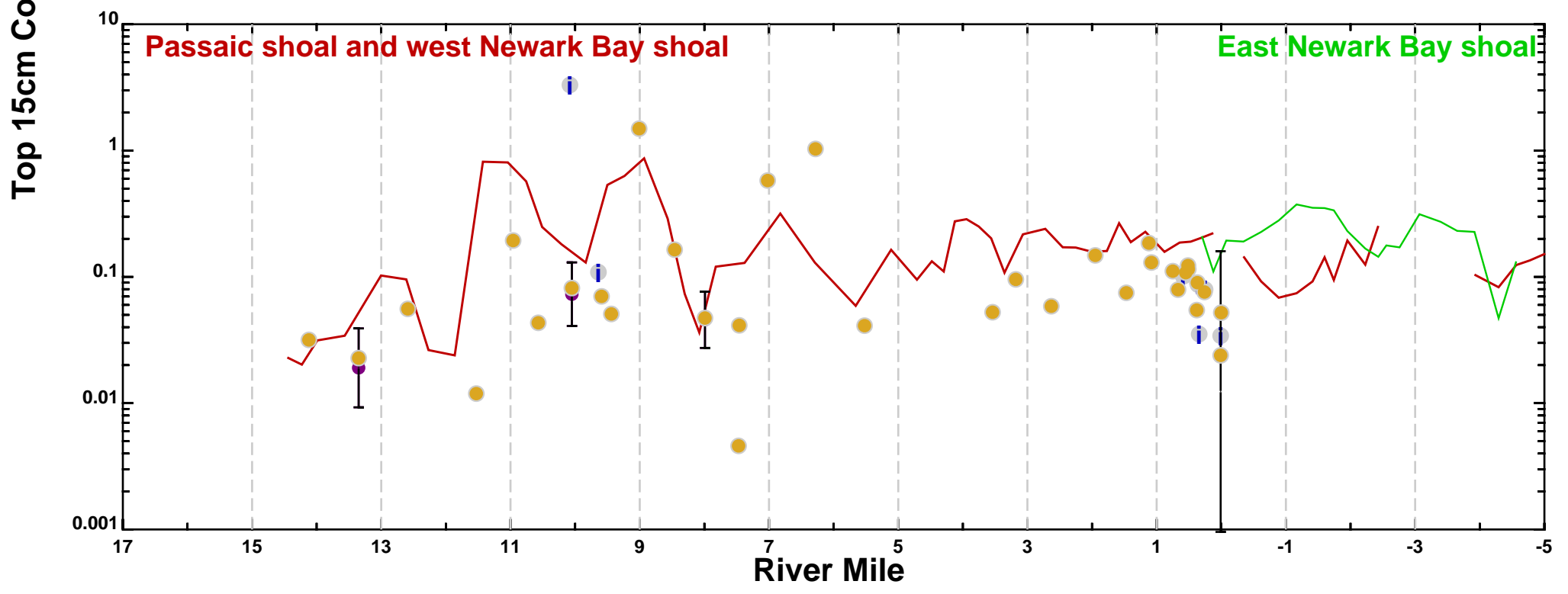
Year =2008.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

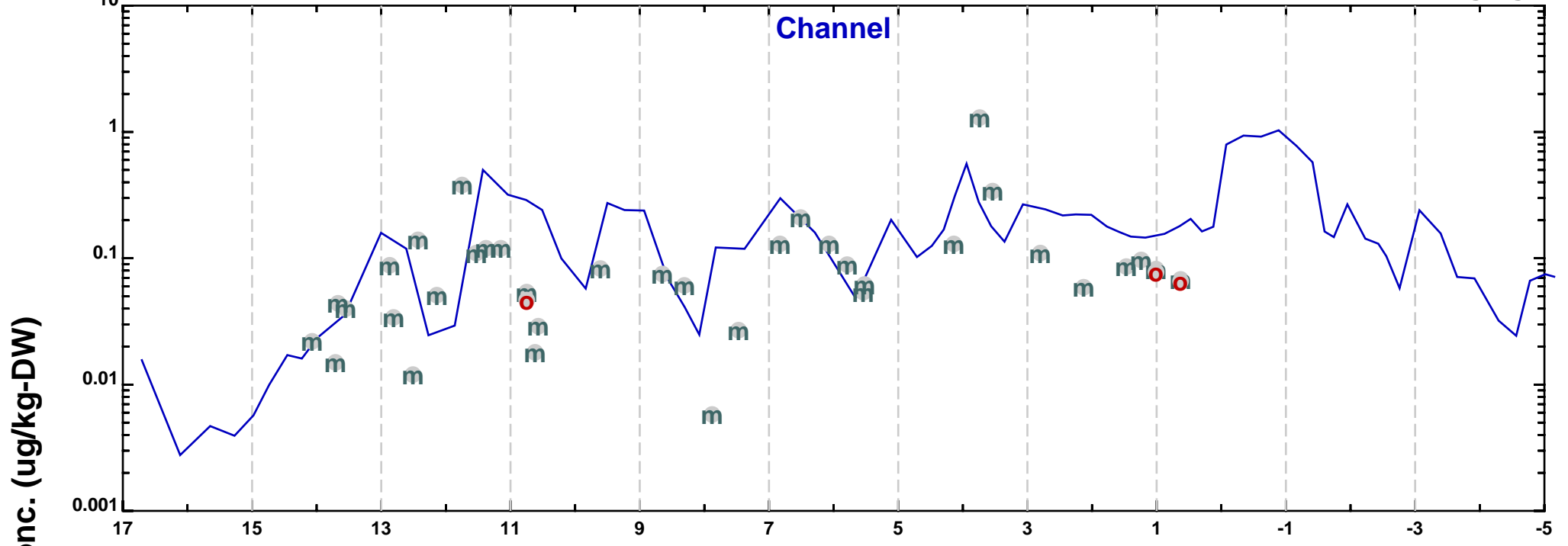


River Mile



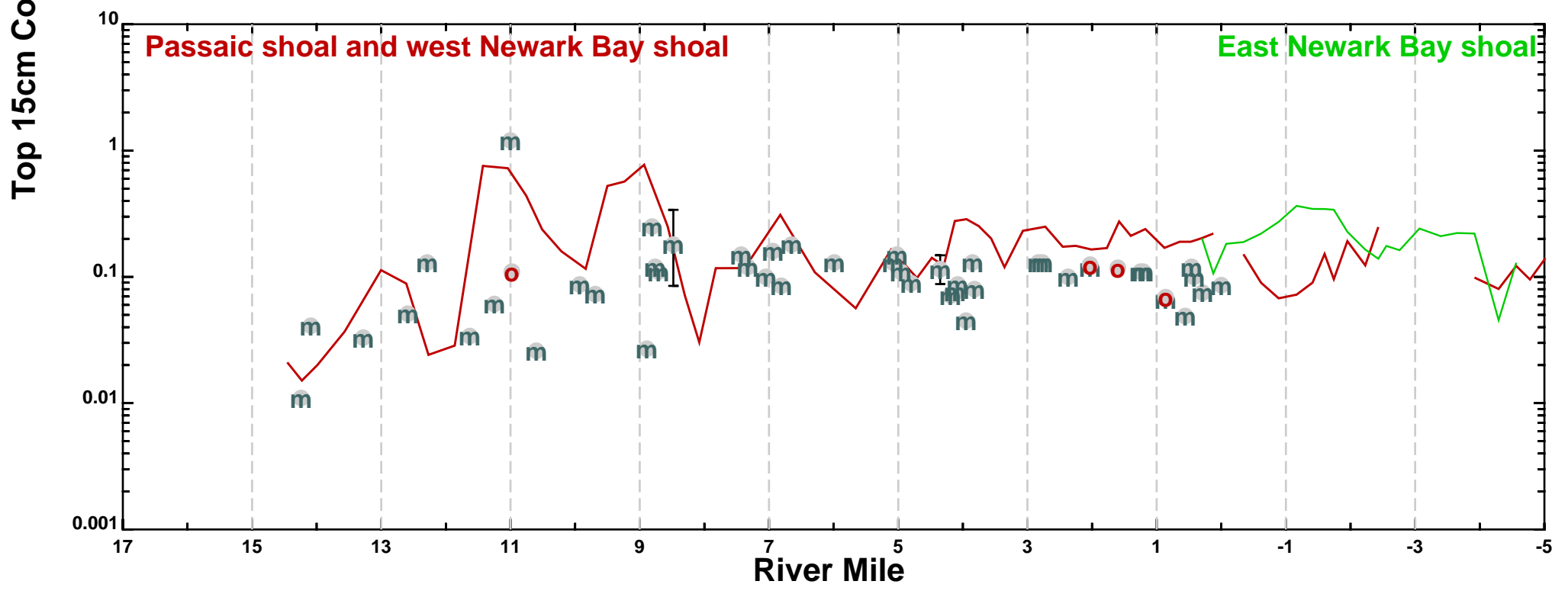
Year =2009.0

BZ#081 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

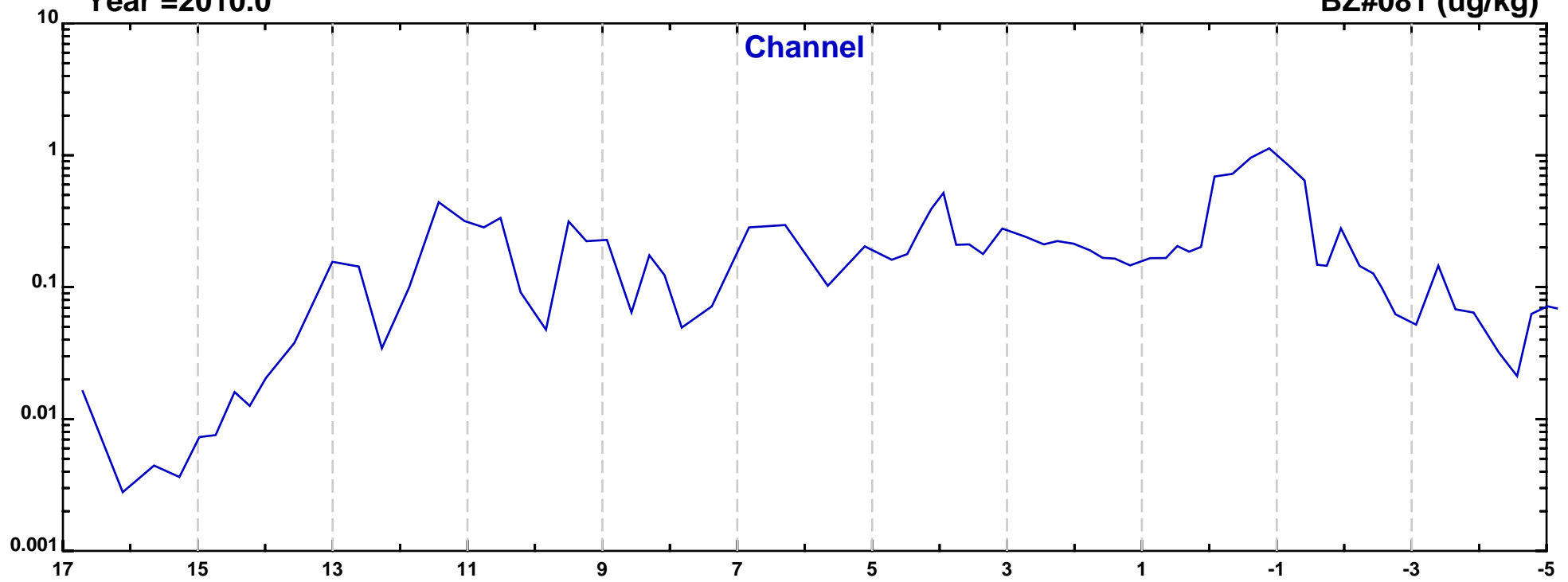


Year =2010.0

BZ#081 (ug/kg)

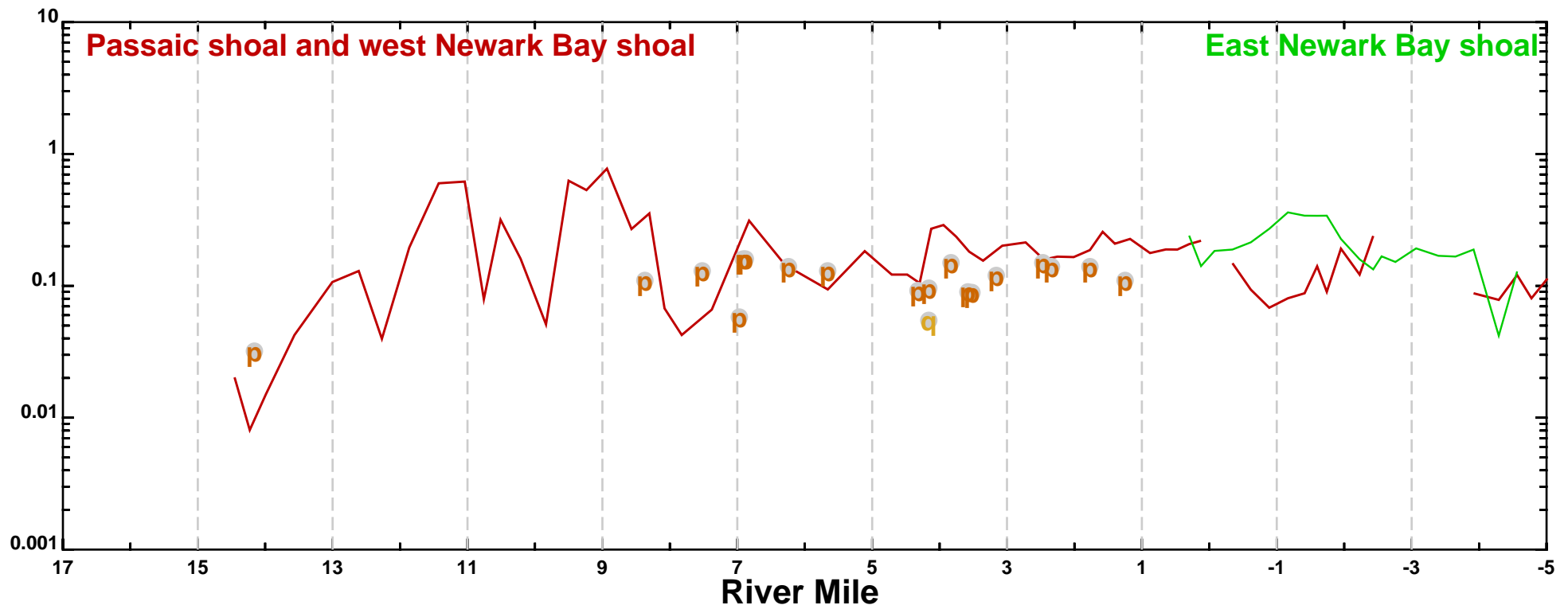
Top 15cm Conc. (ug/kg-DW)

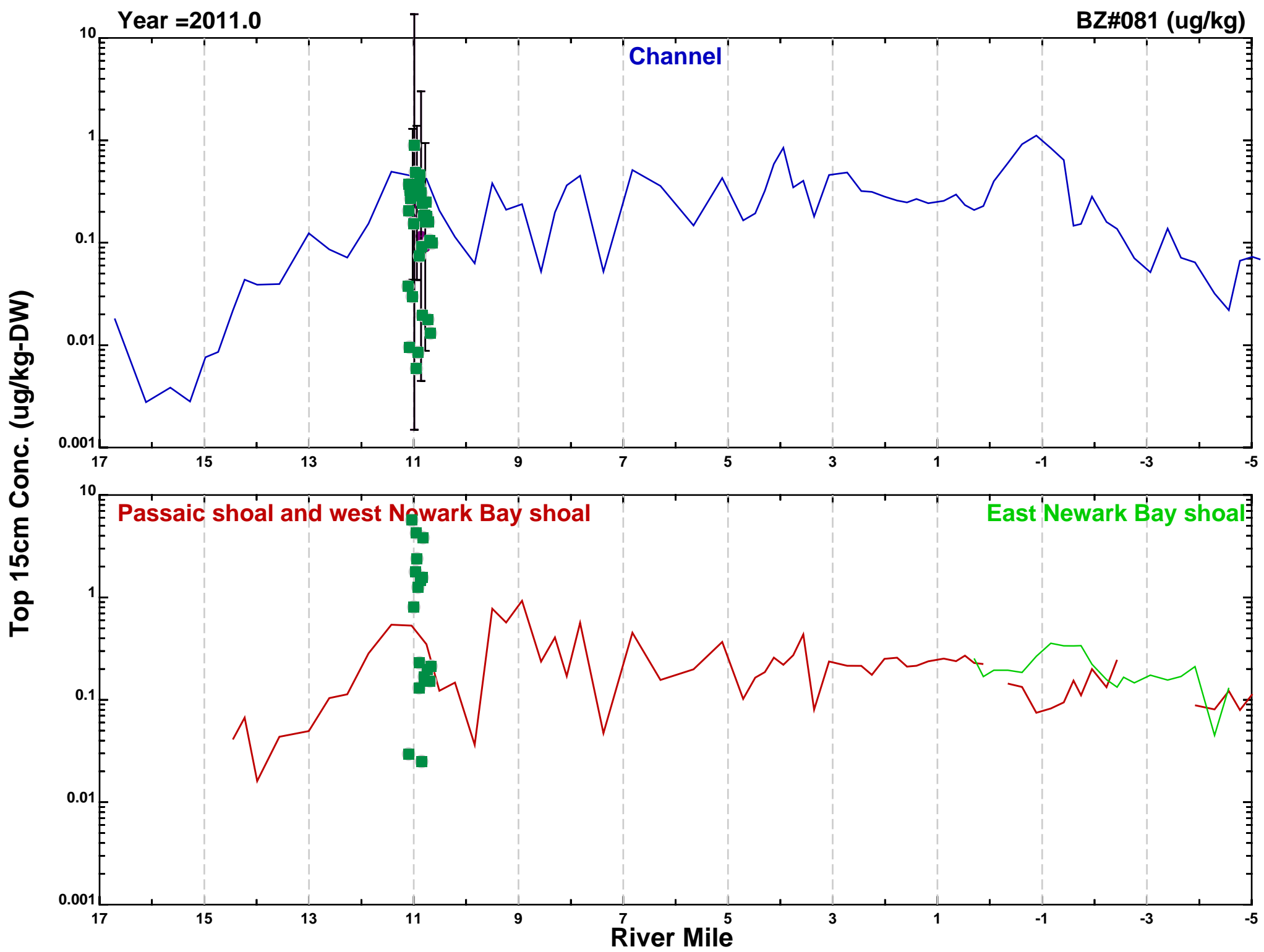
Channel

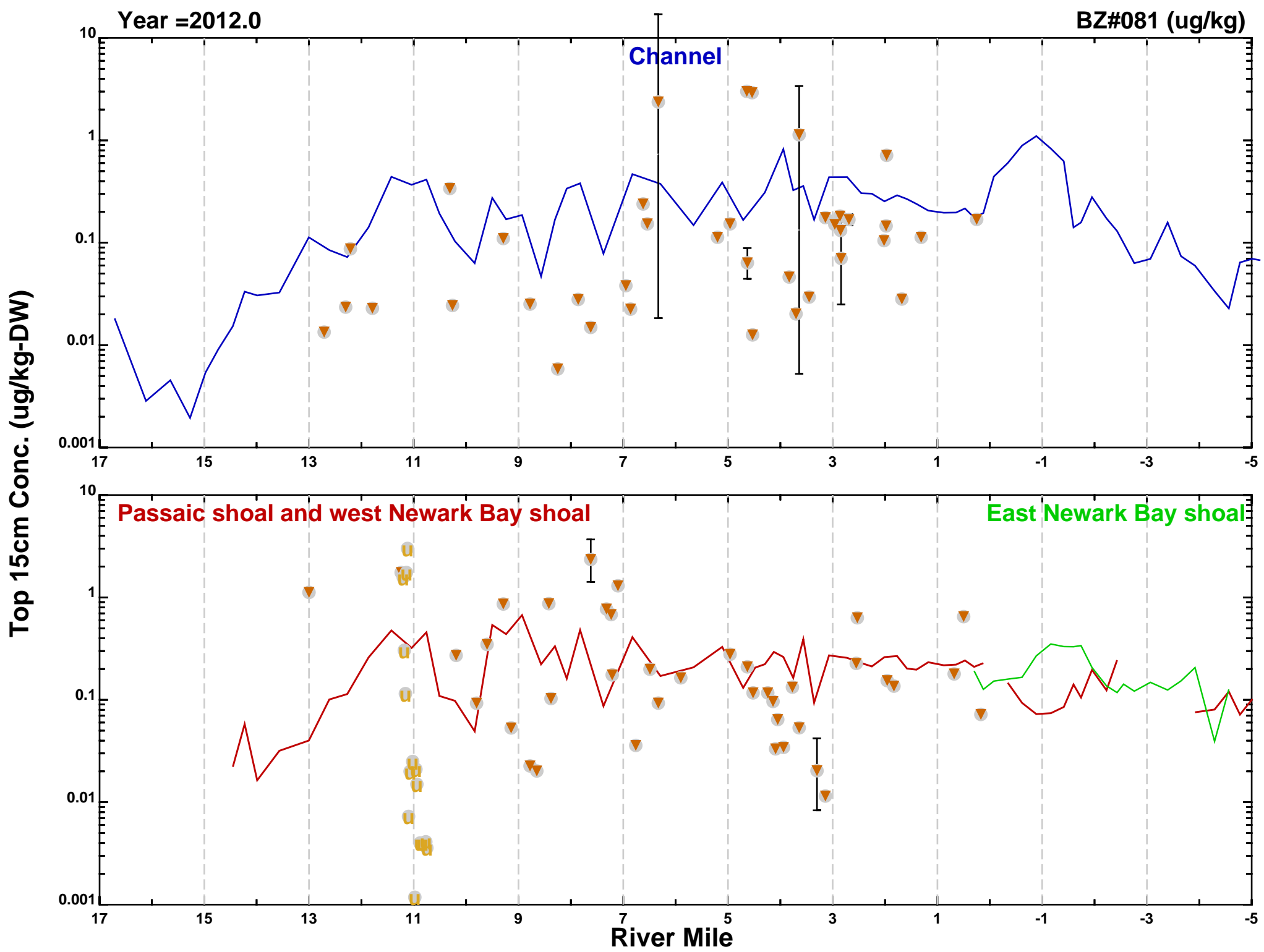


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





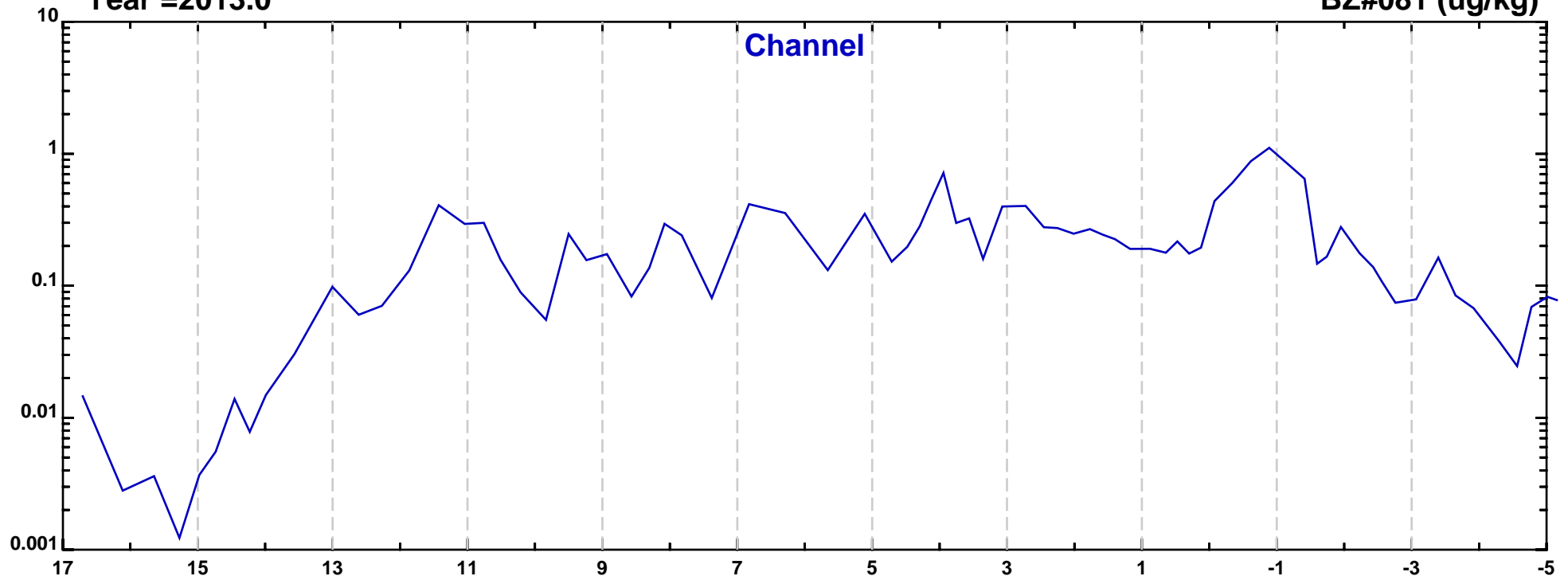


Year =2013.0

BZ#081 (ug/kg)

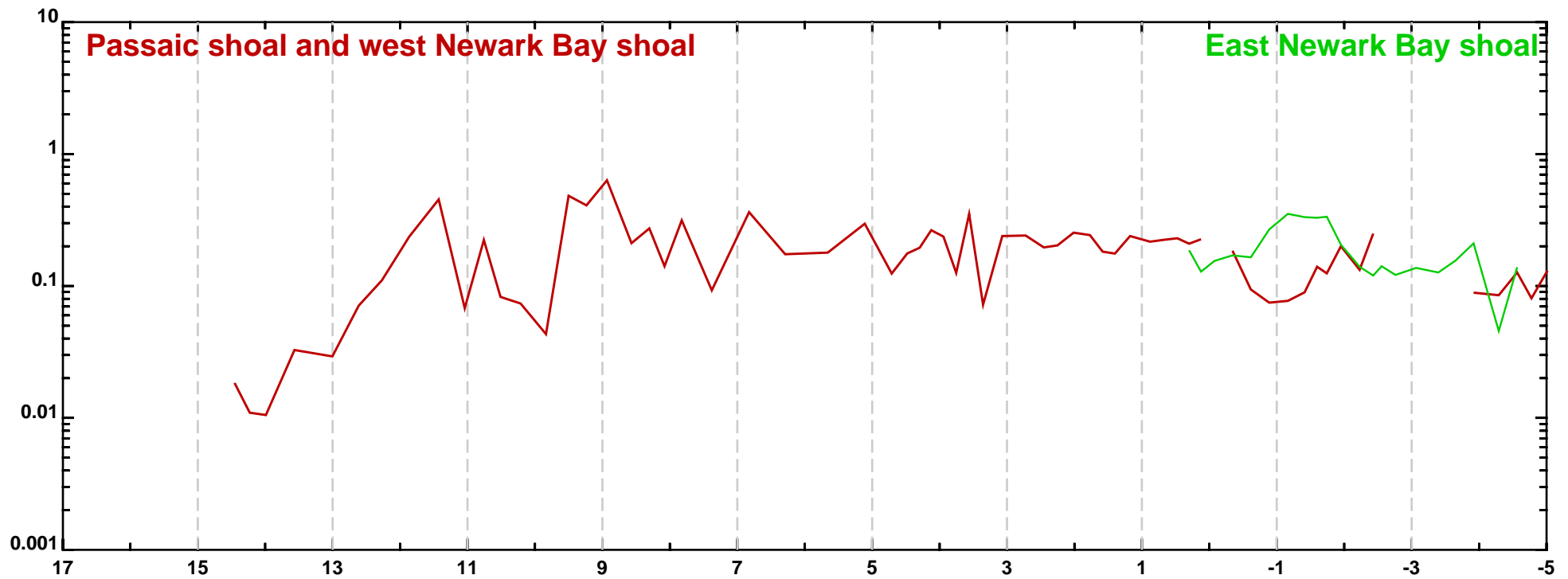
Top 15cm Conc. (ug/kg-DW)

Channel

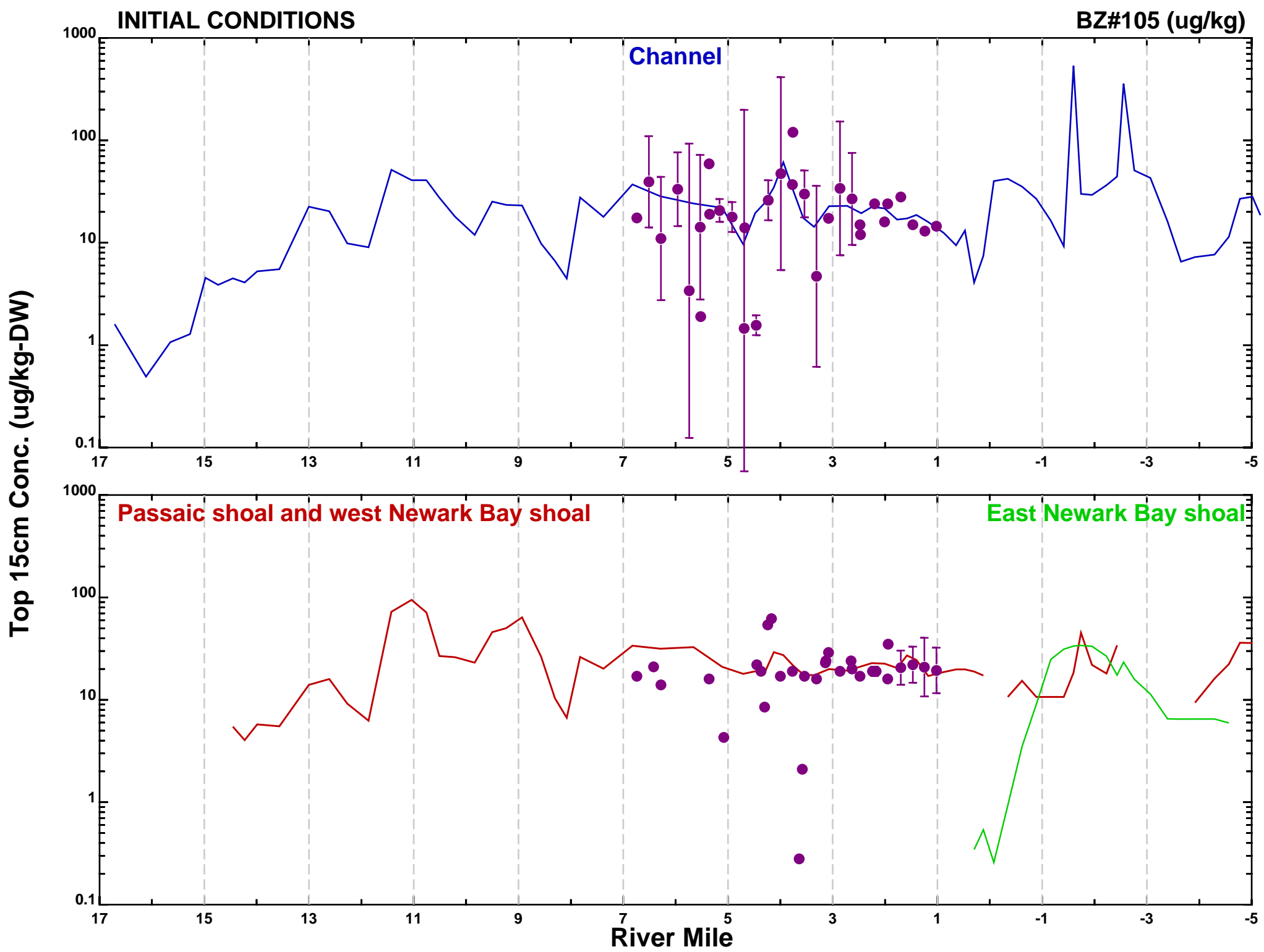


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

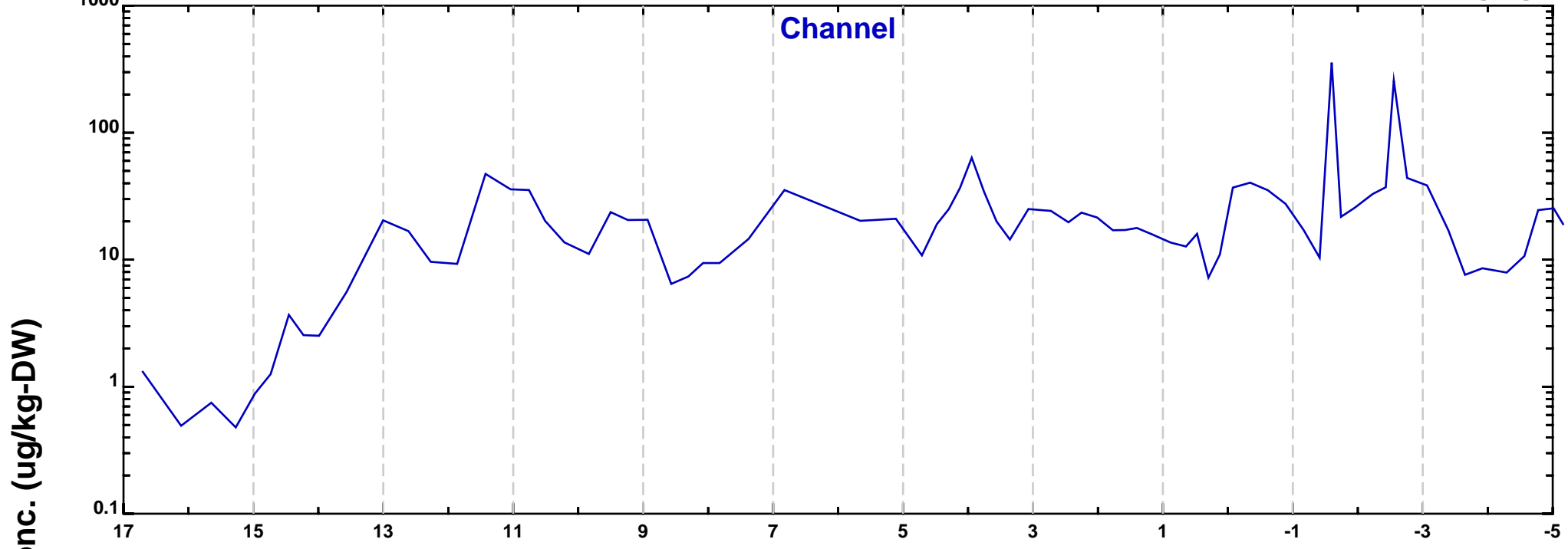


River Mile



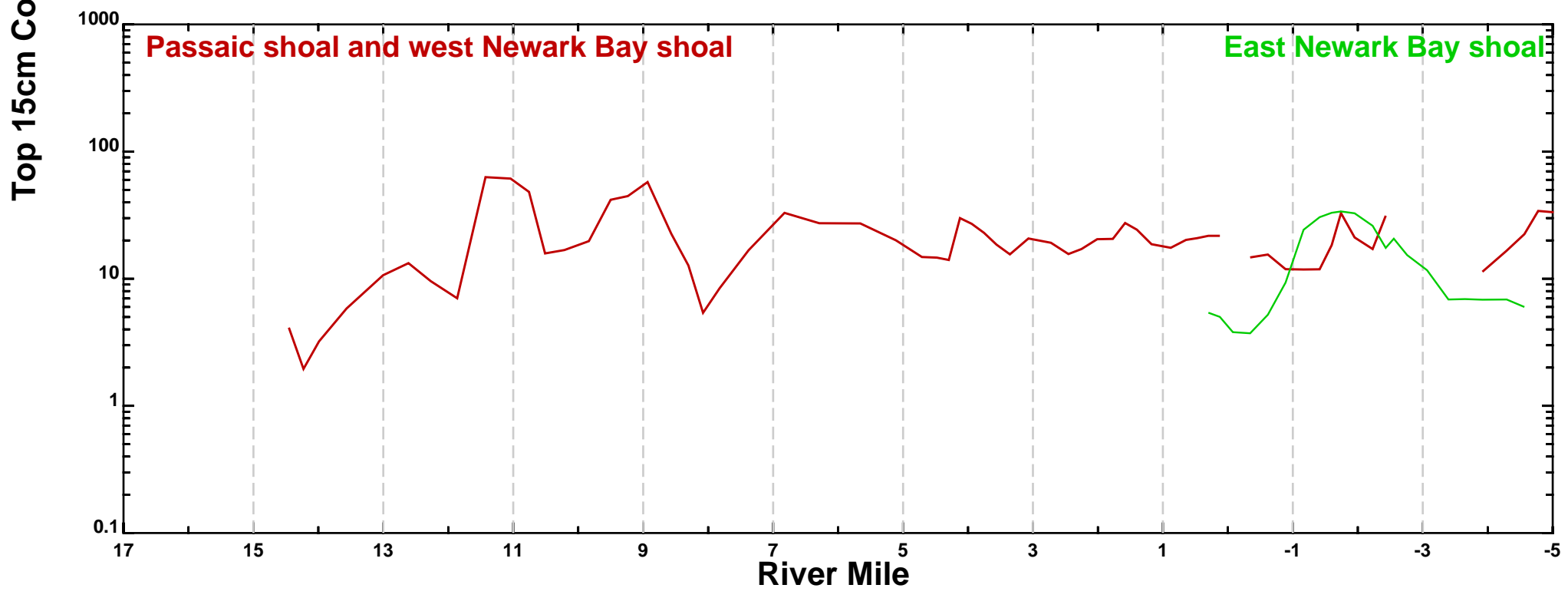
Year = 1996.0

BZ#105 (ug/kg)



Passaic shoal and west Newark Bay shoal

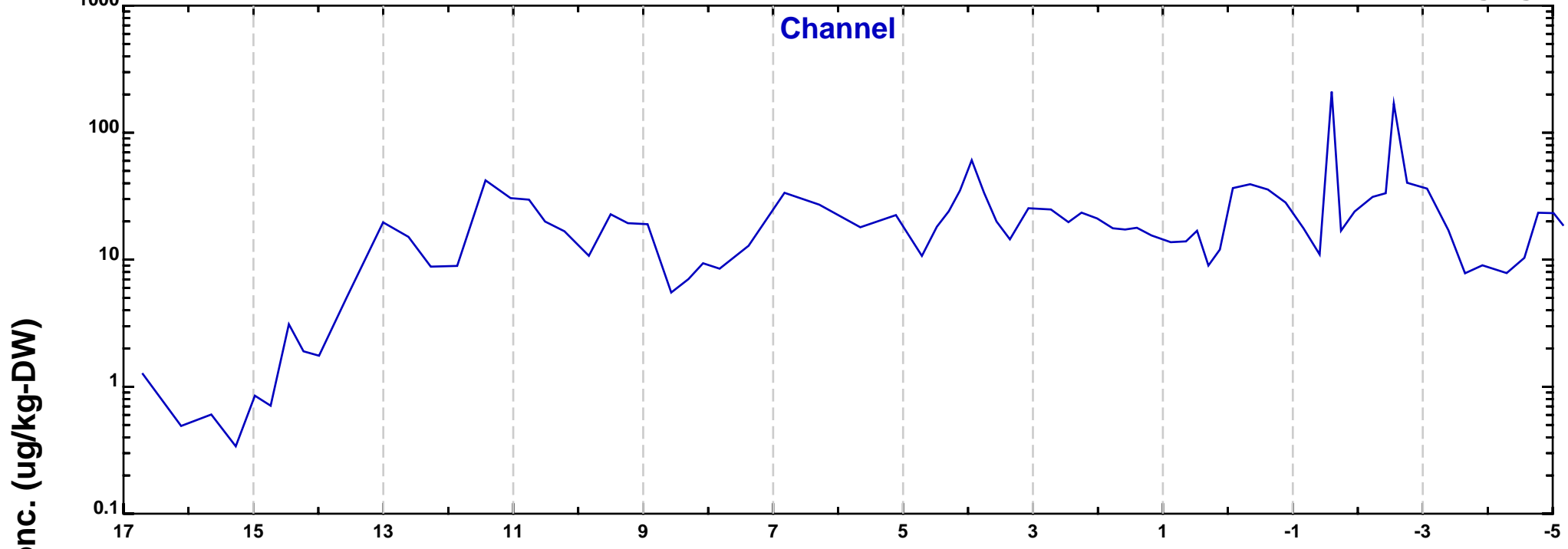
East Newark Bay shoal



River Mile

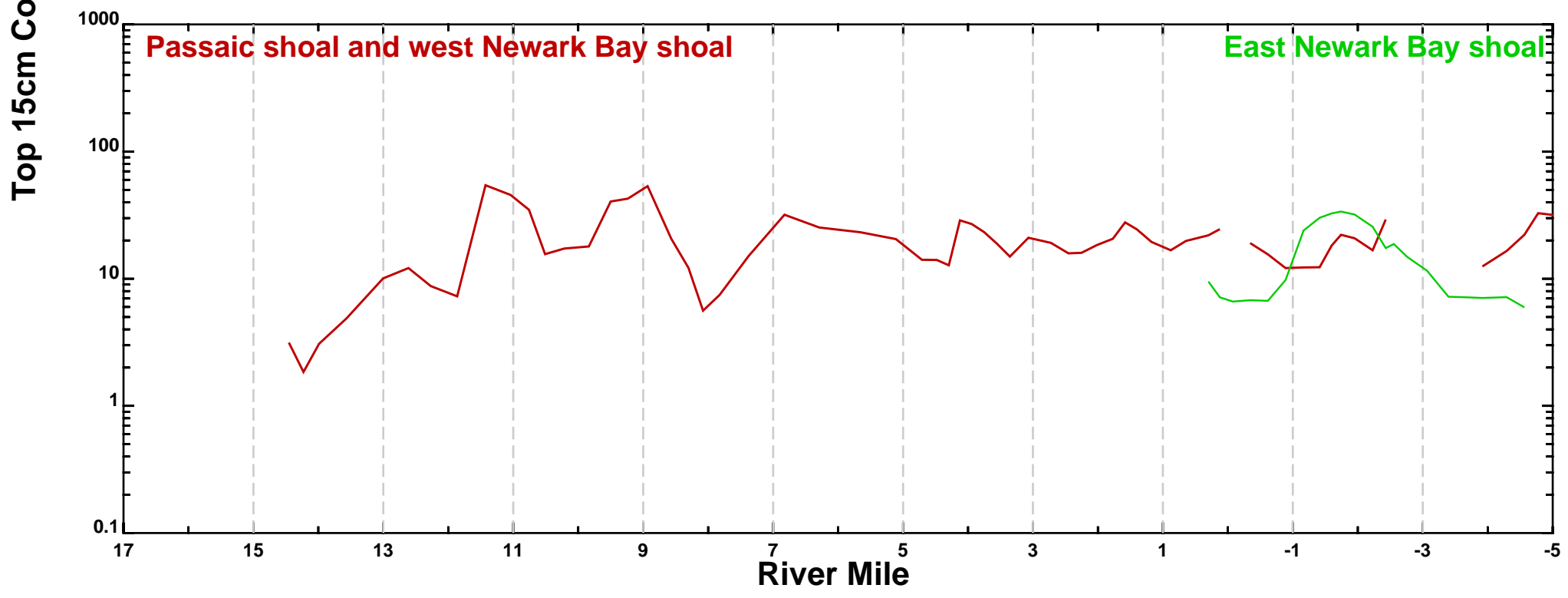
Year = 1997.0

BZ#105 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

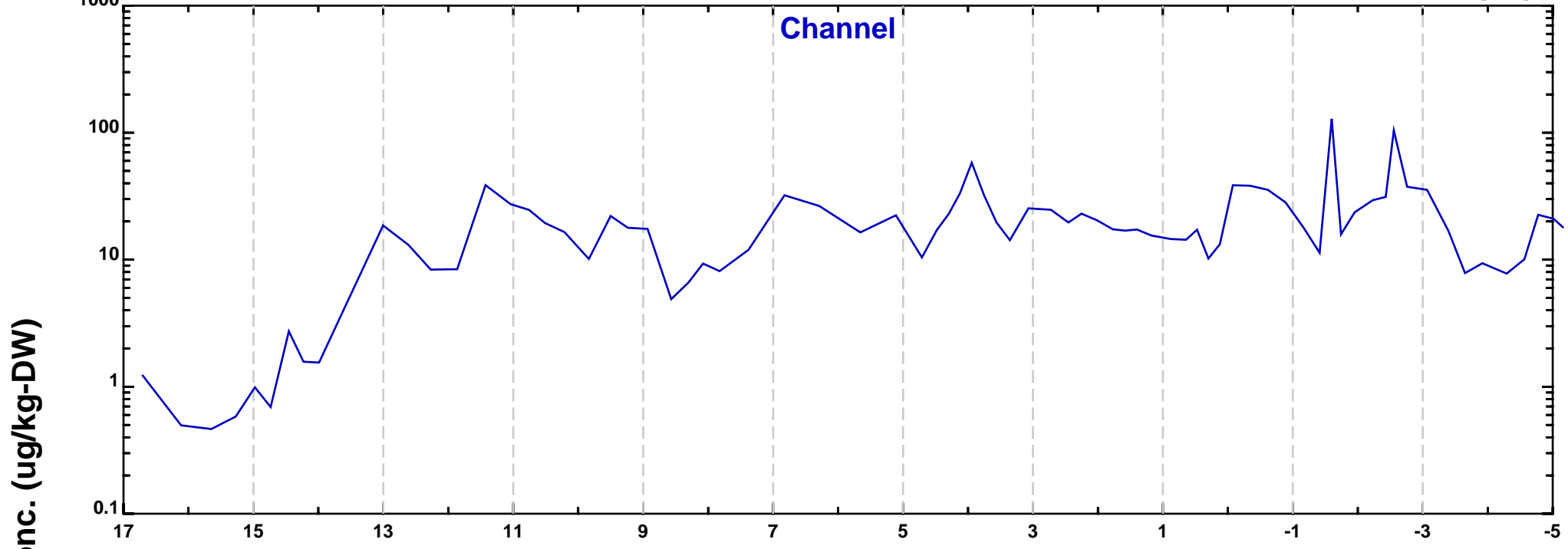


River Mile



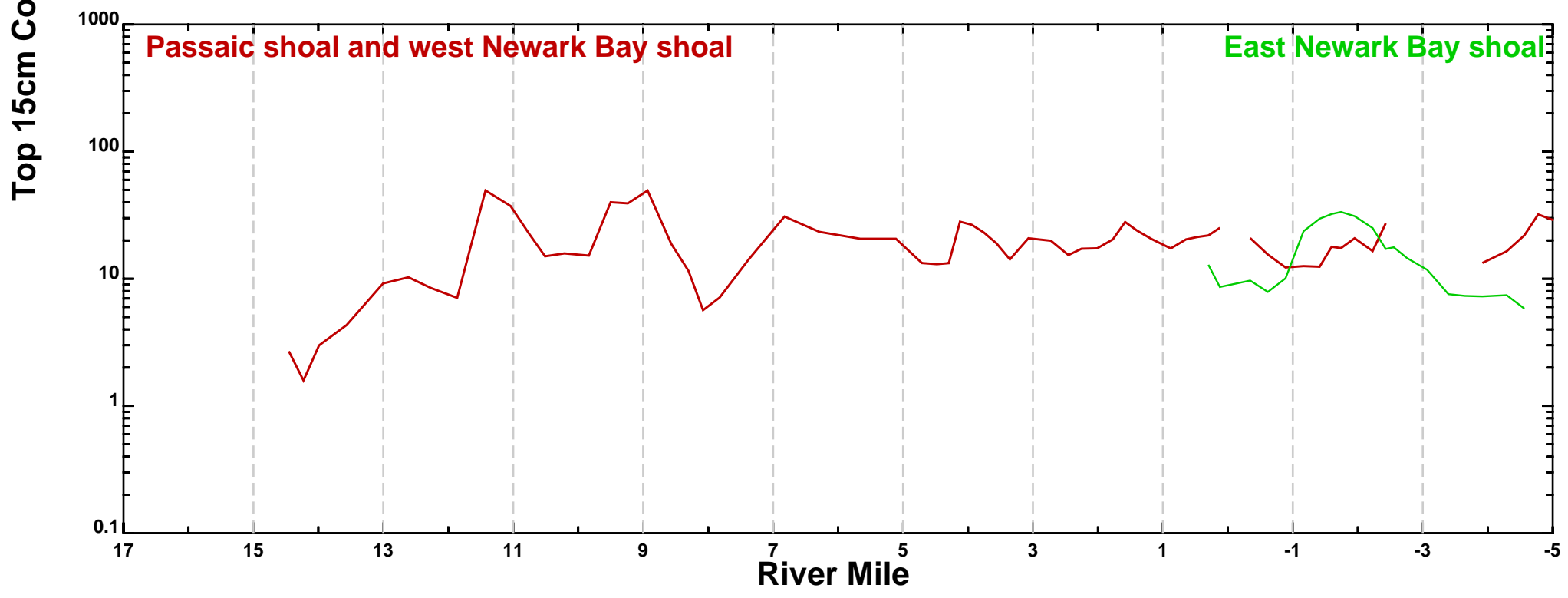
Year = 1998.0

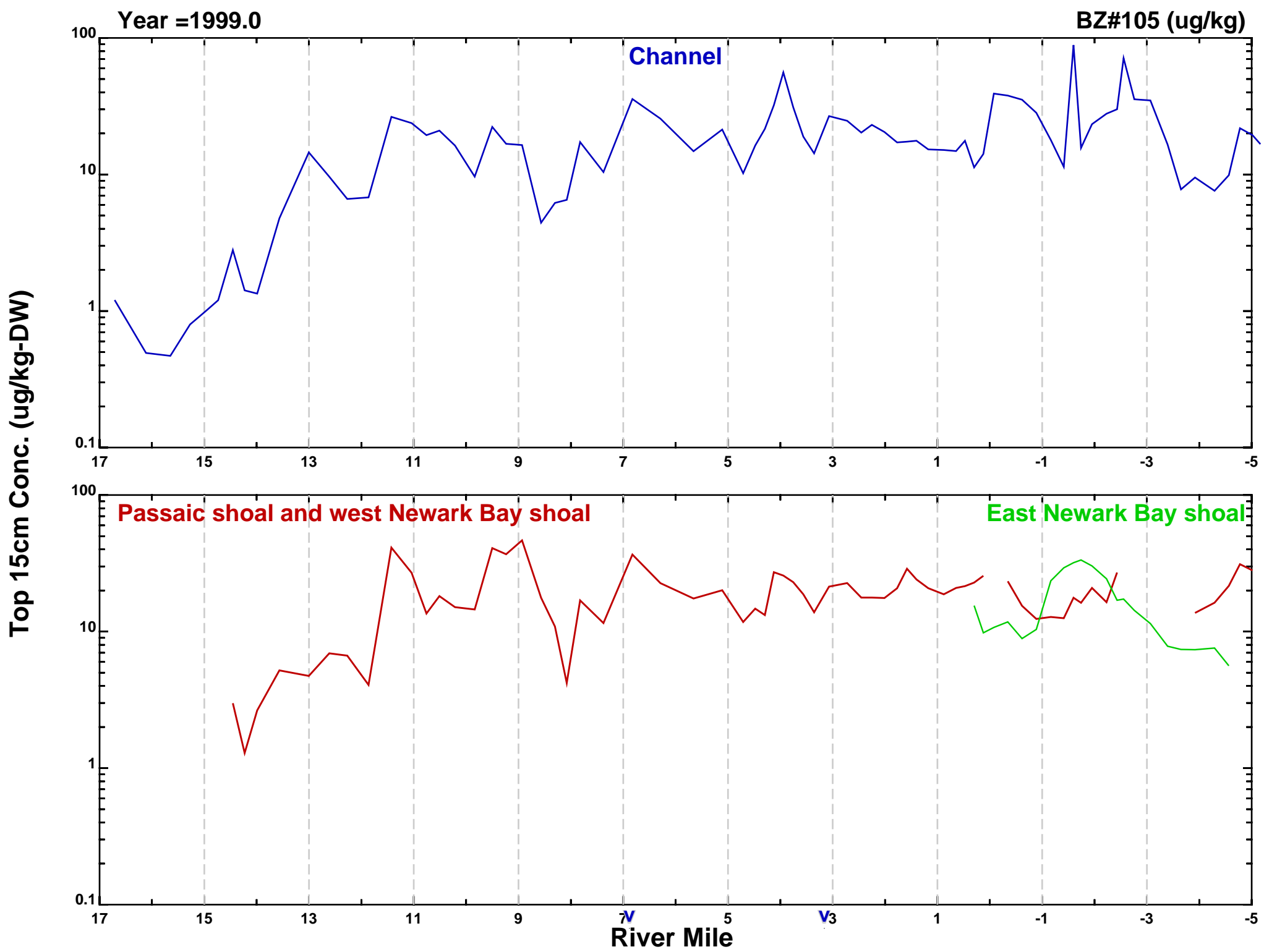
BZ#105 (ug/kg)

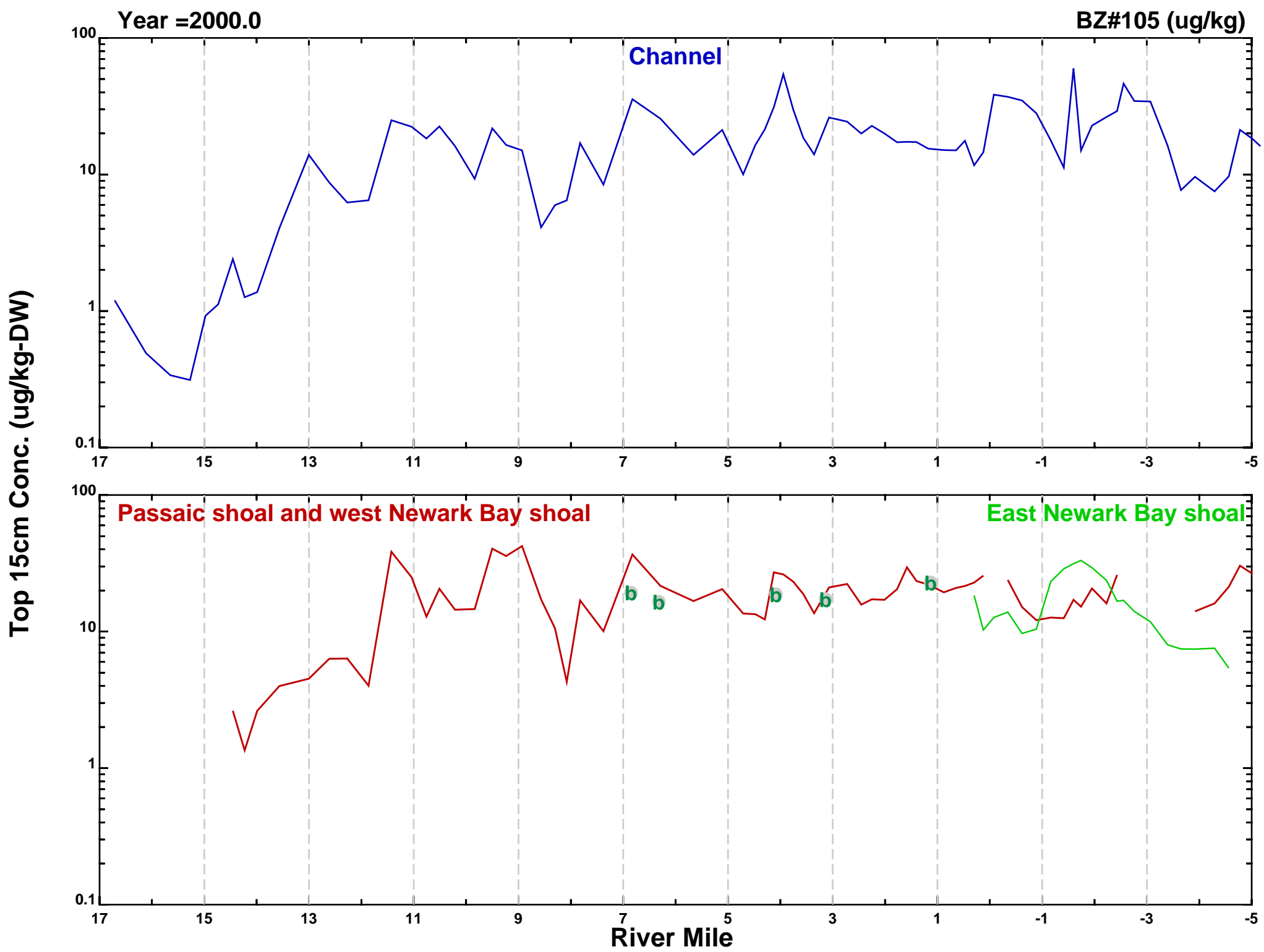


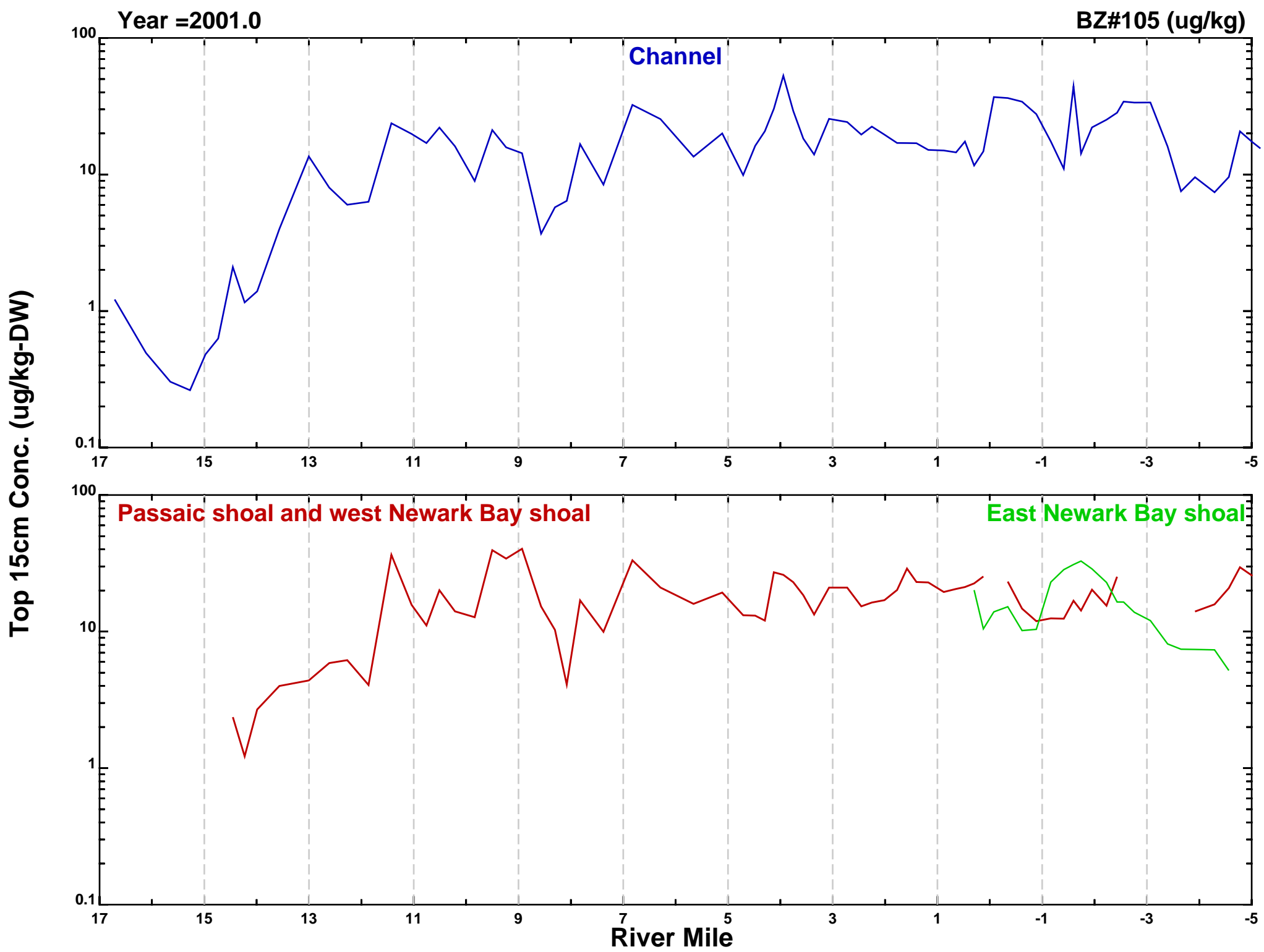
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



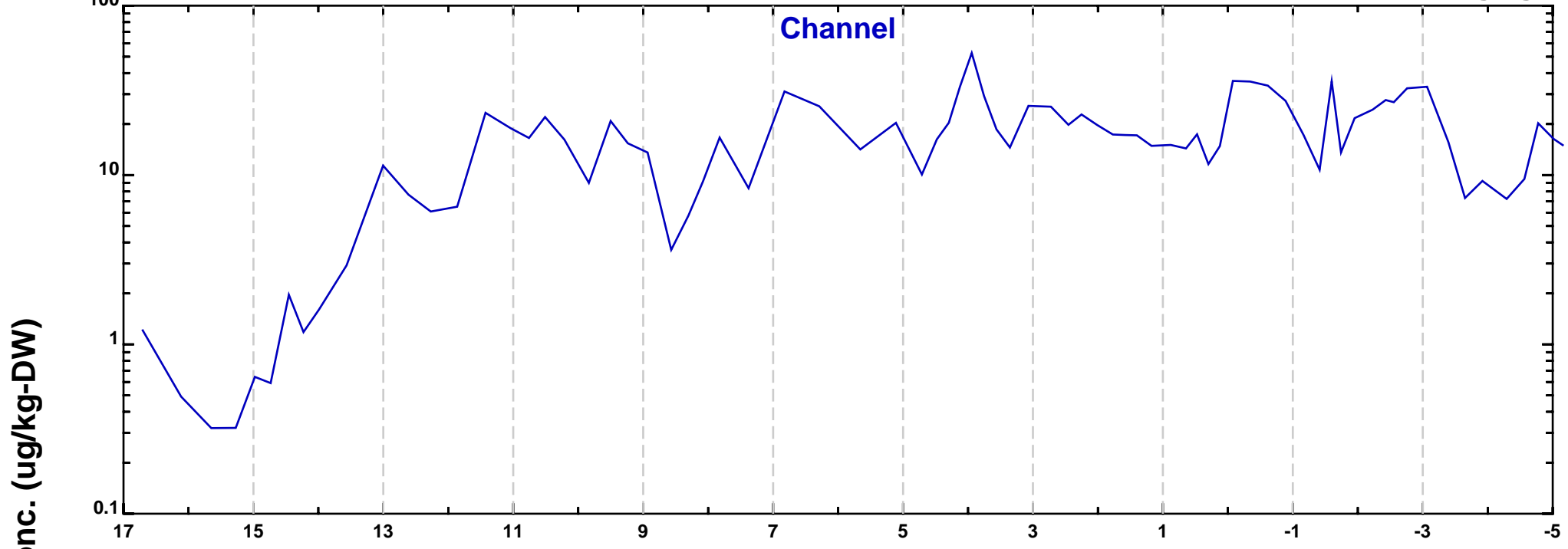






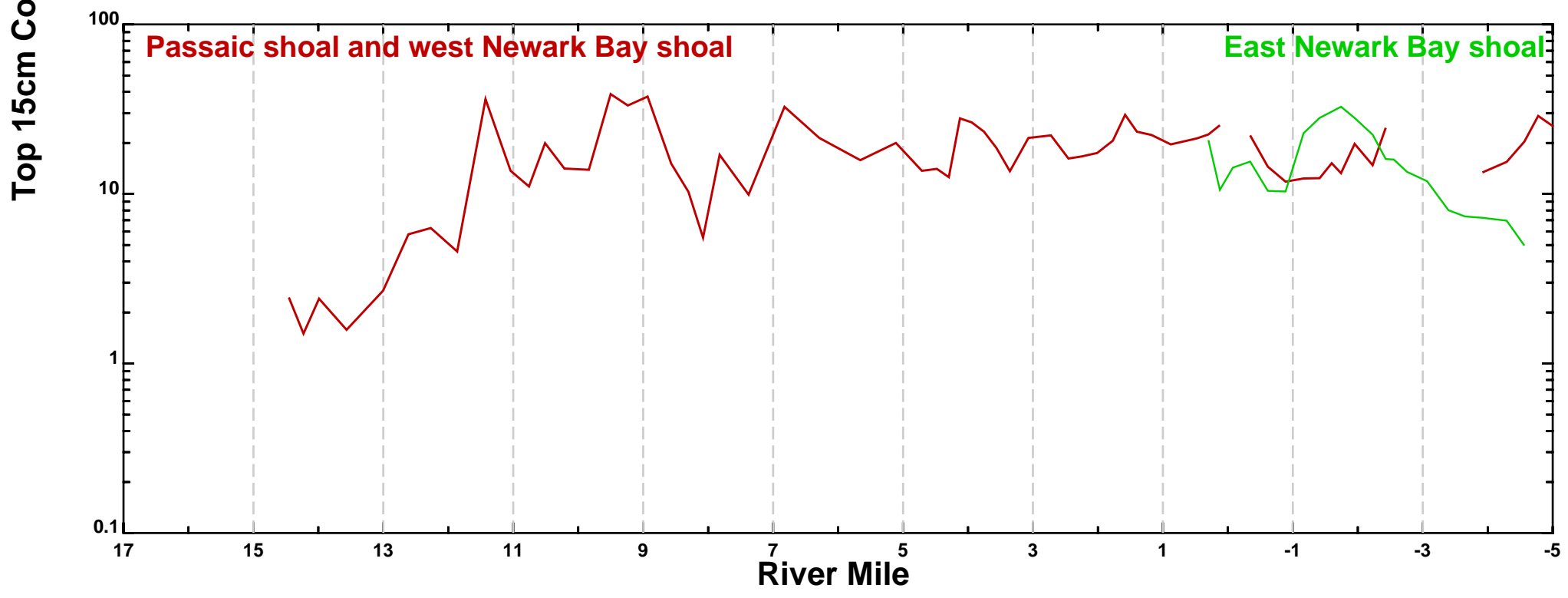
Year =2002.0

BZ#105 (ug/kg)



Passaic shoal and west Newark Bay shoal

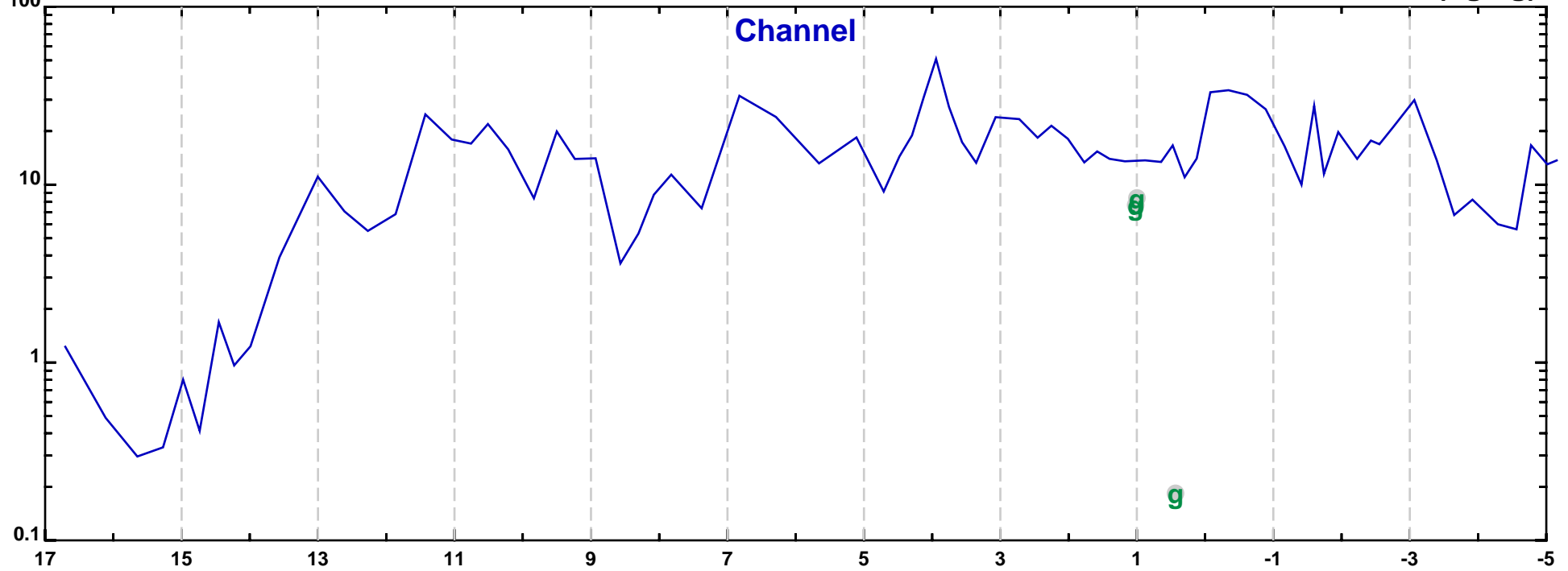
East Newark Bay shoal



Year =2003.0

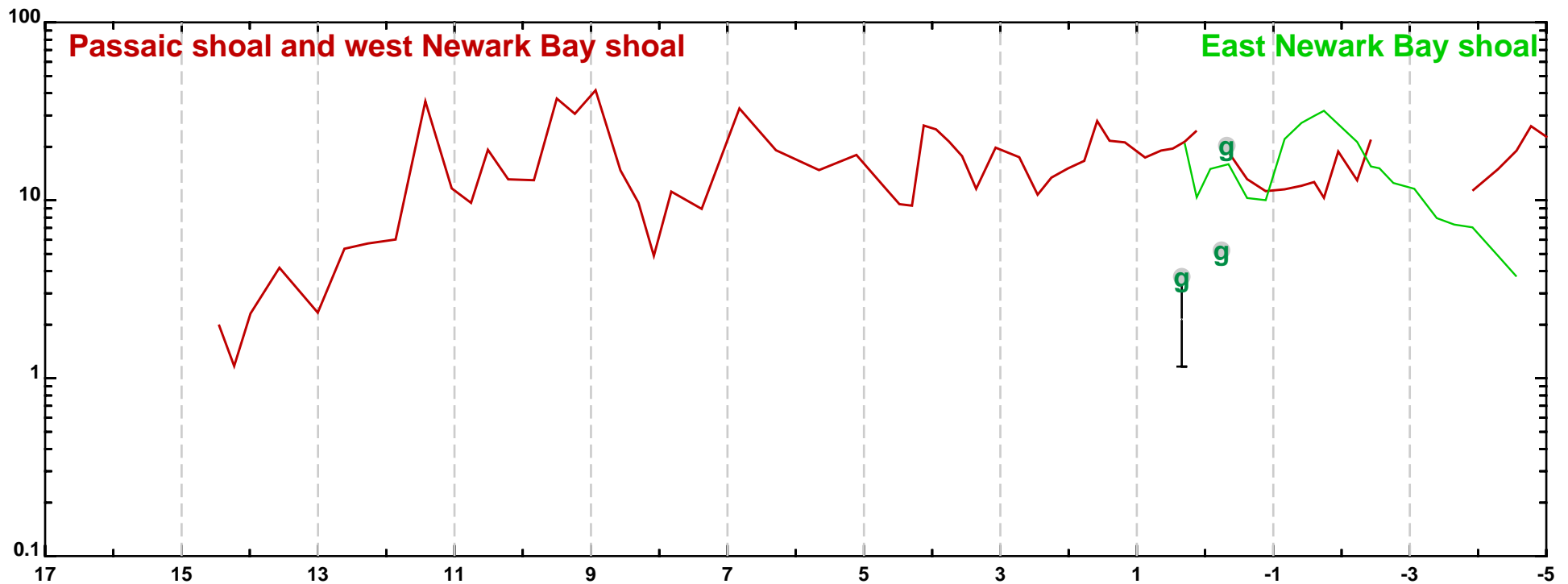
BZ#105 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

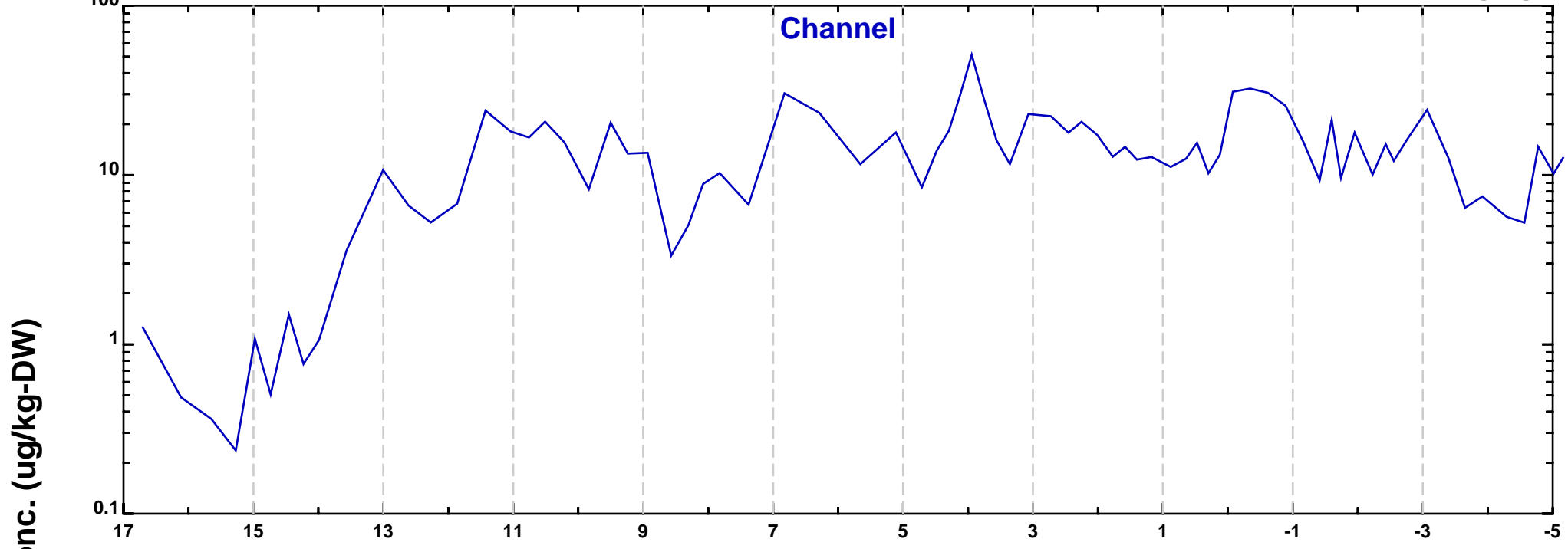
East Newark Bay shoal



River Mile

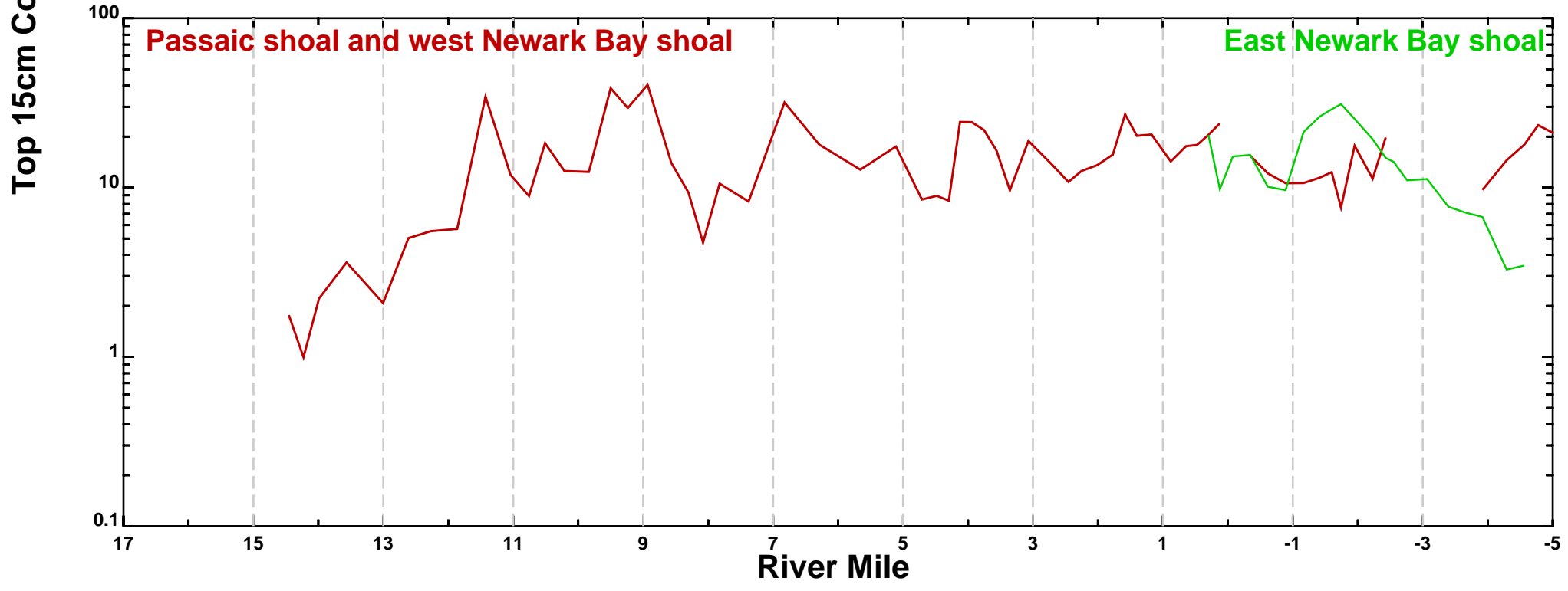
Year =2004.0

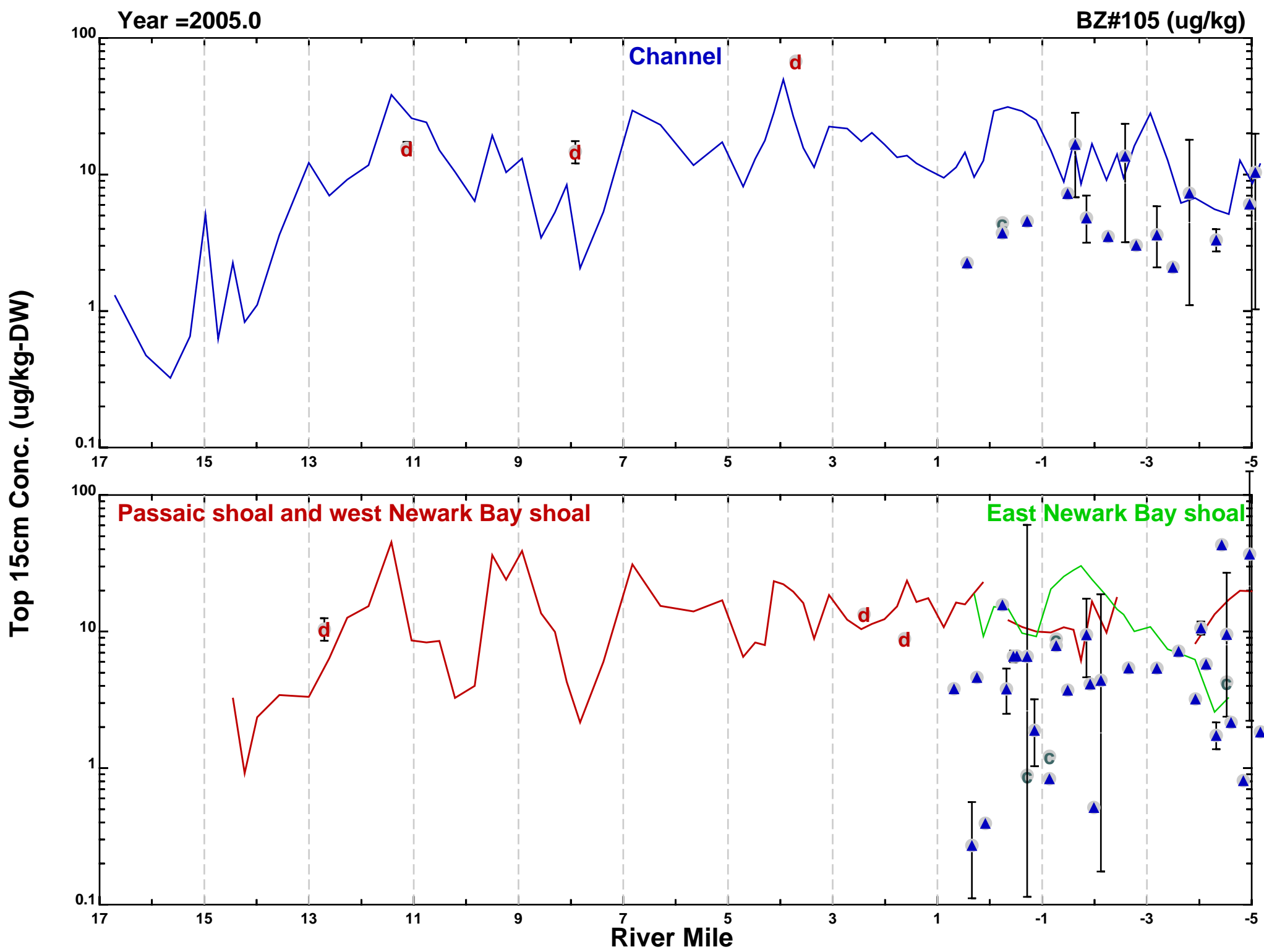
BZ#105 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



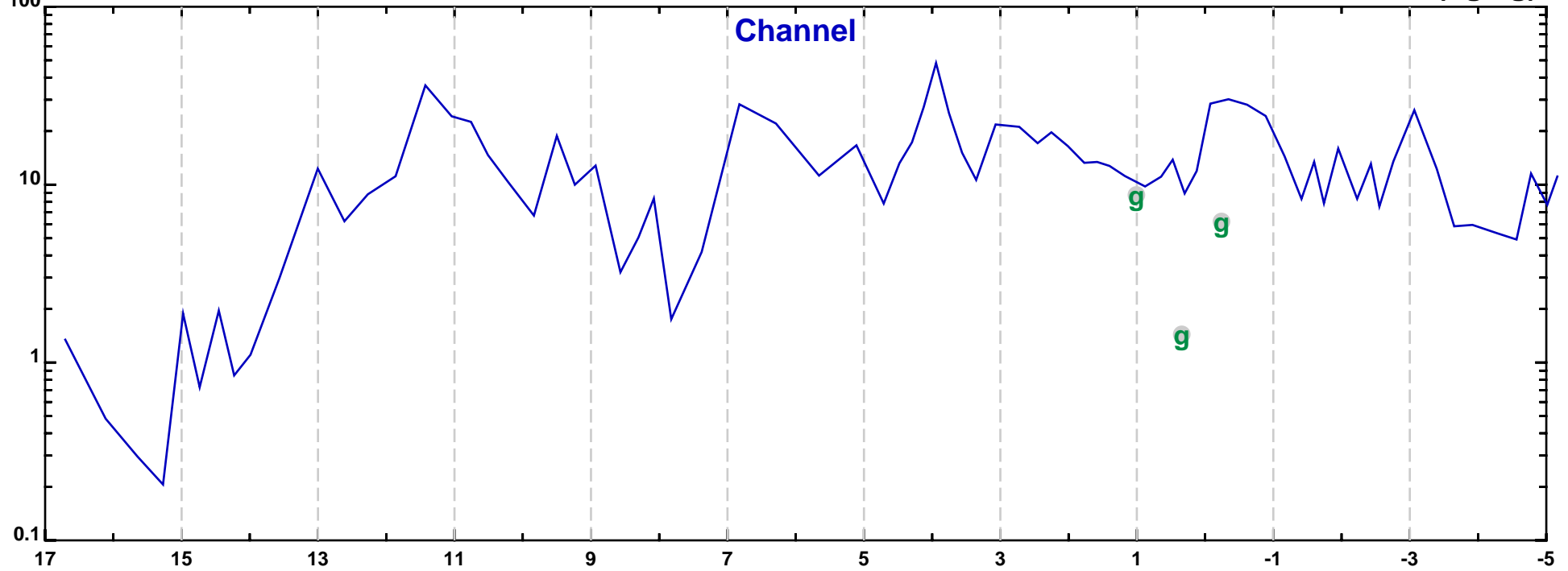




Year =2006.0

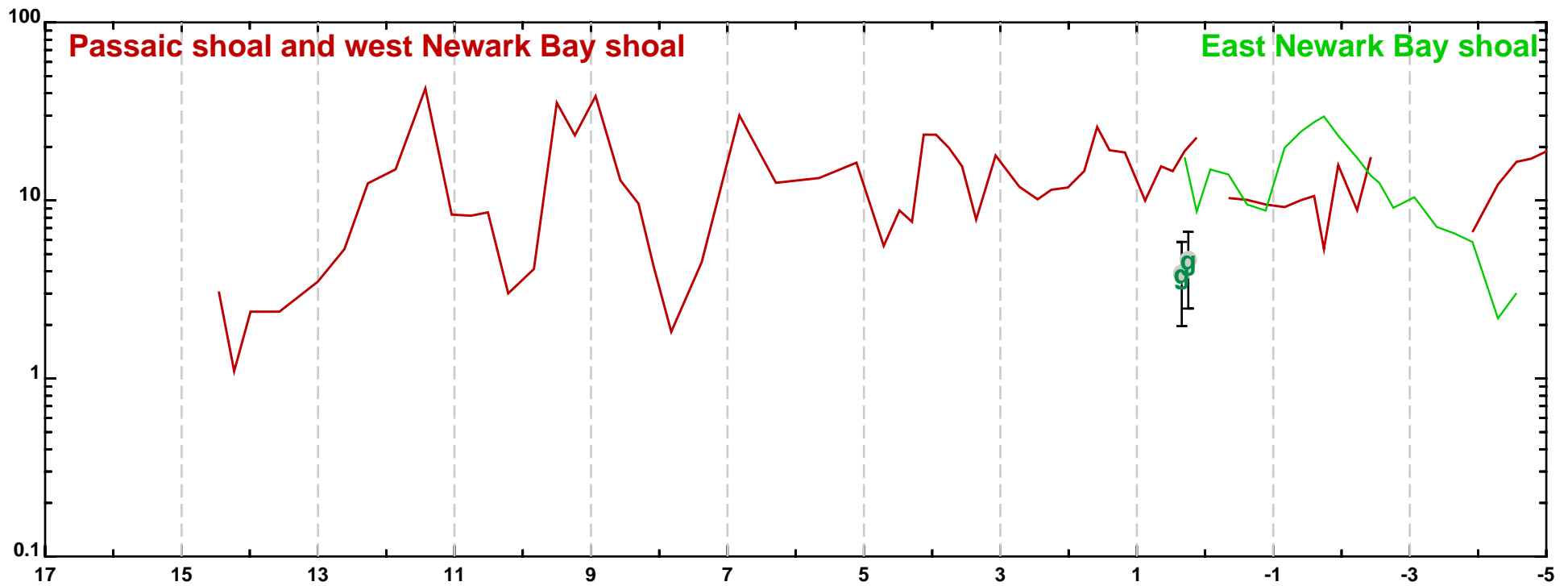
BZ#105 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



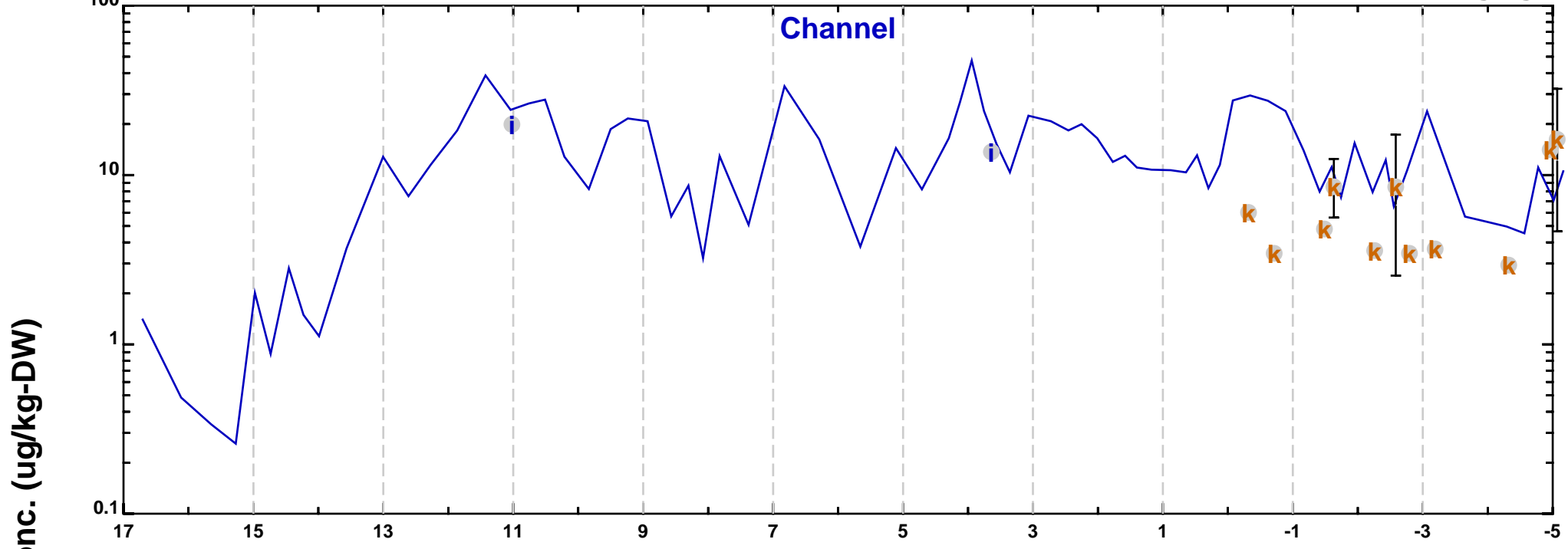
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



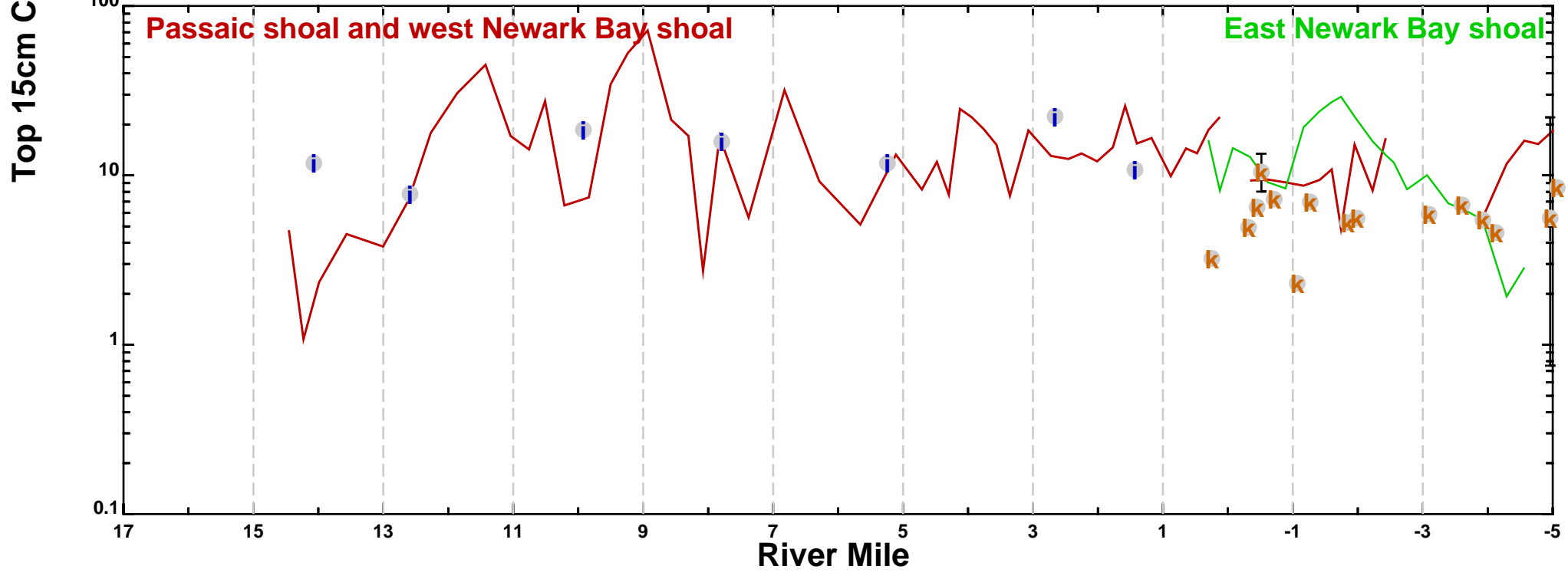
Year =2007.0

BZ#105 (ug/kg)



Passaic shoal and west Newark Bay shoal

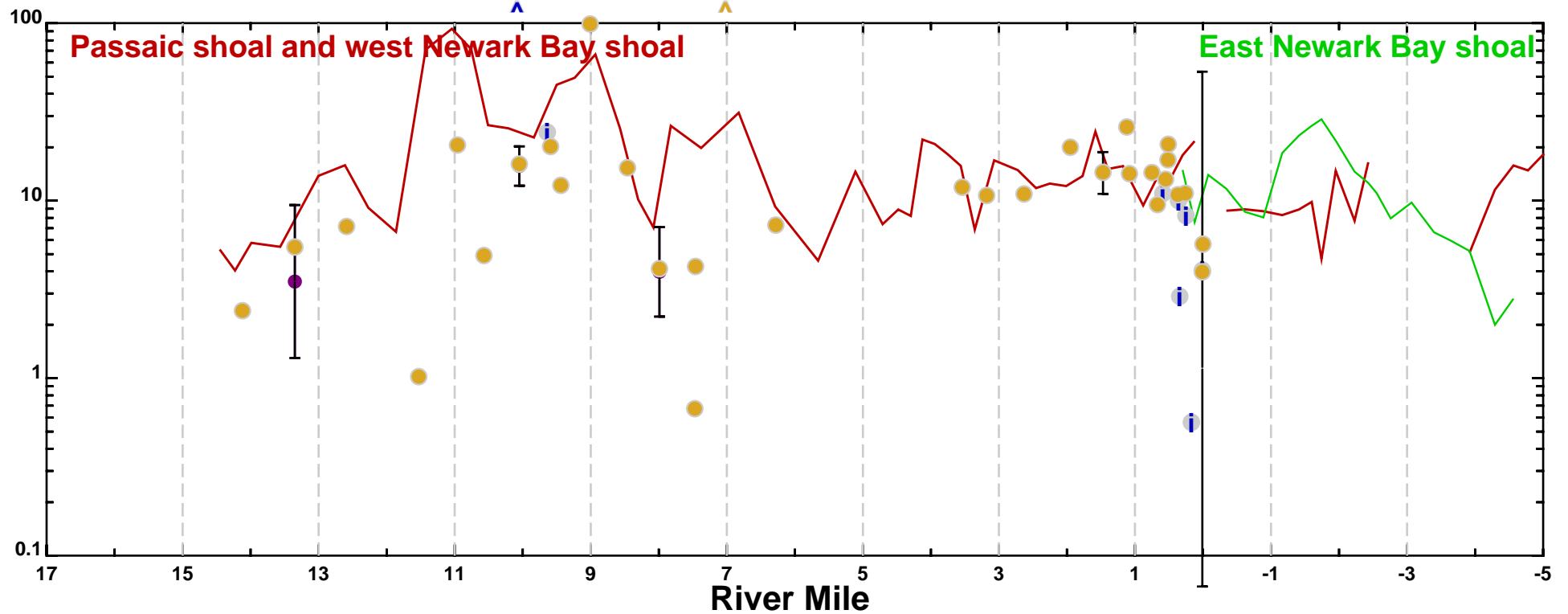
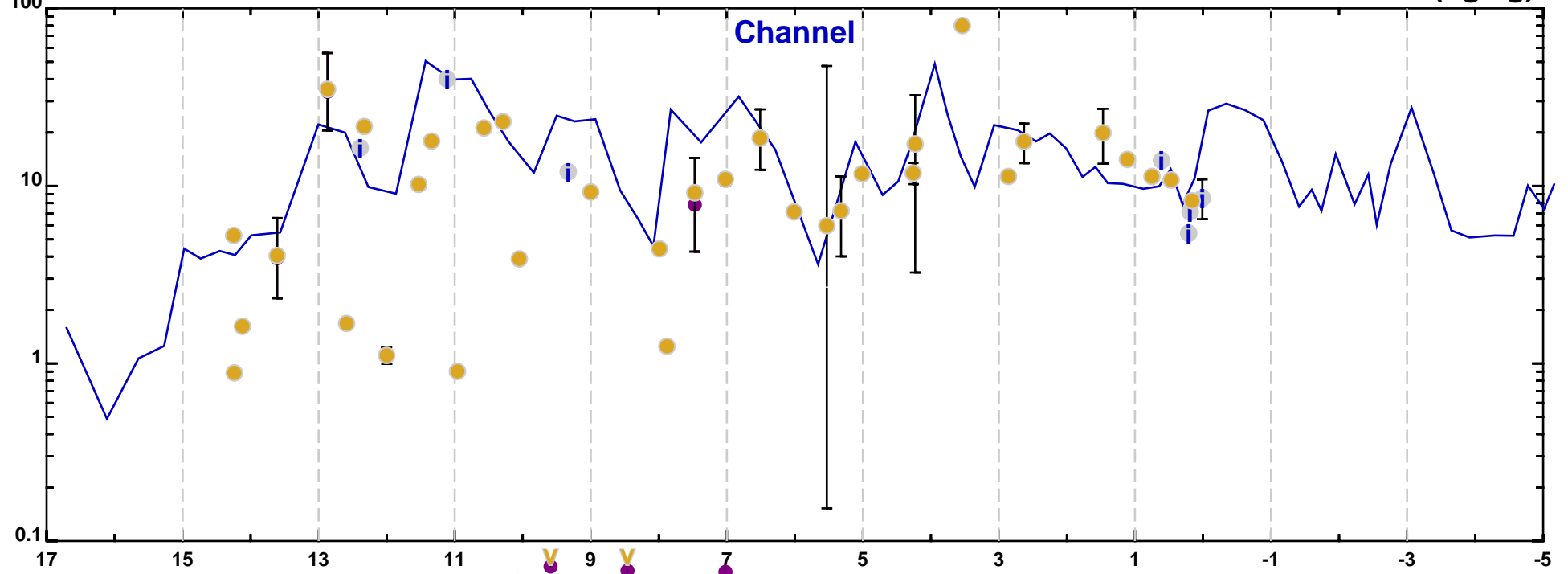
East Newark Bay shoal



Year =2008.0

BZ#105 (ug/kg)

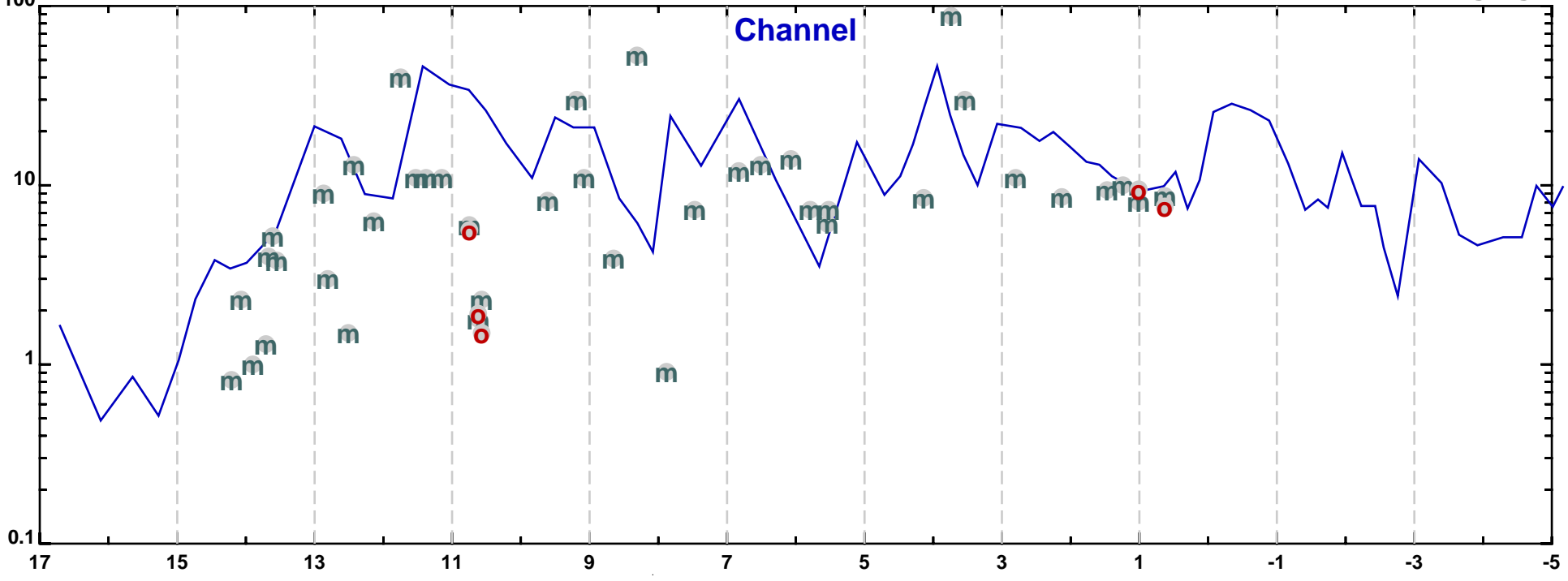
Top 15cm Conc. (ug/kg-DW)



Year =2009.0

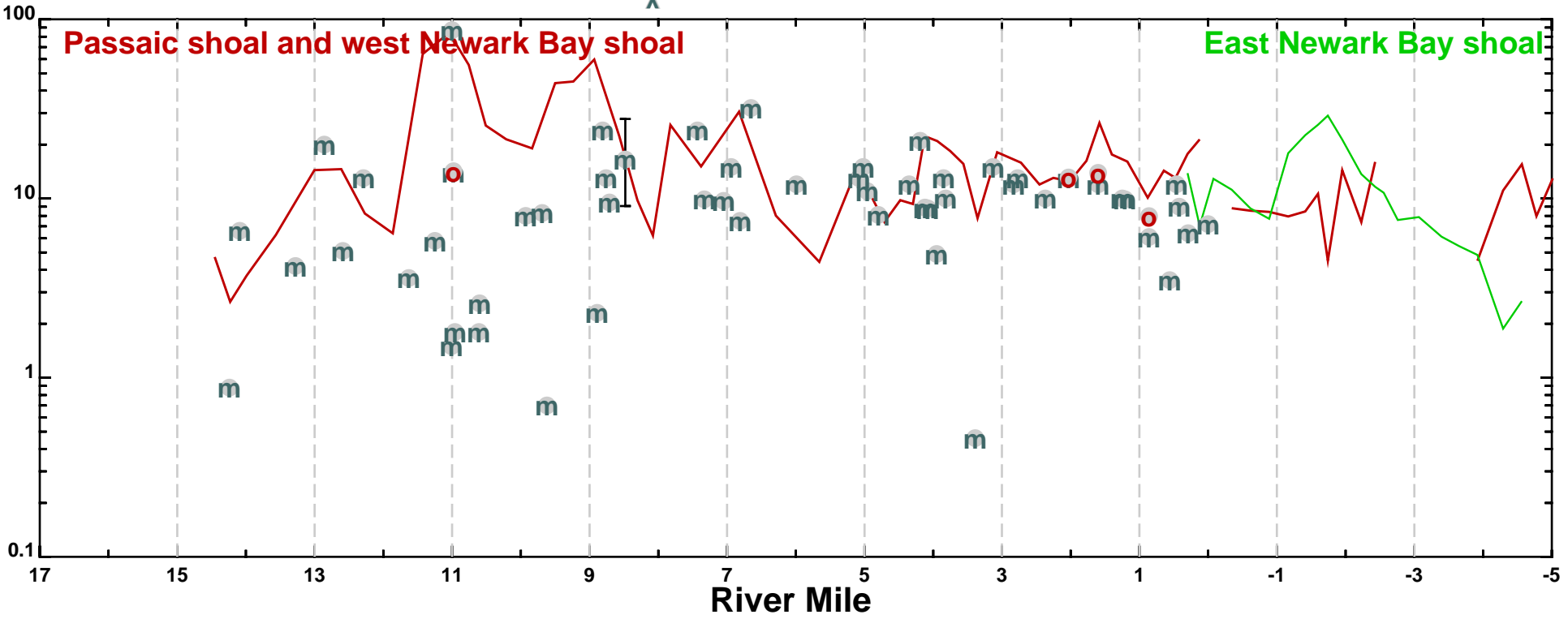
BZ#105 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



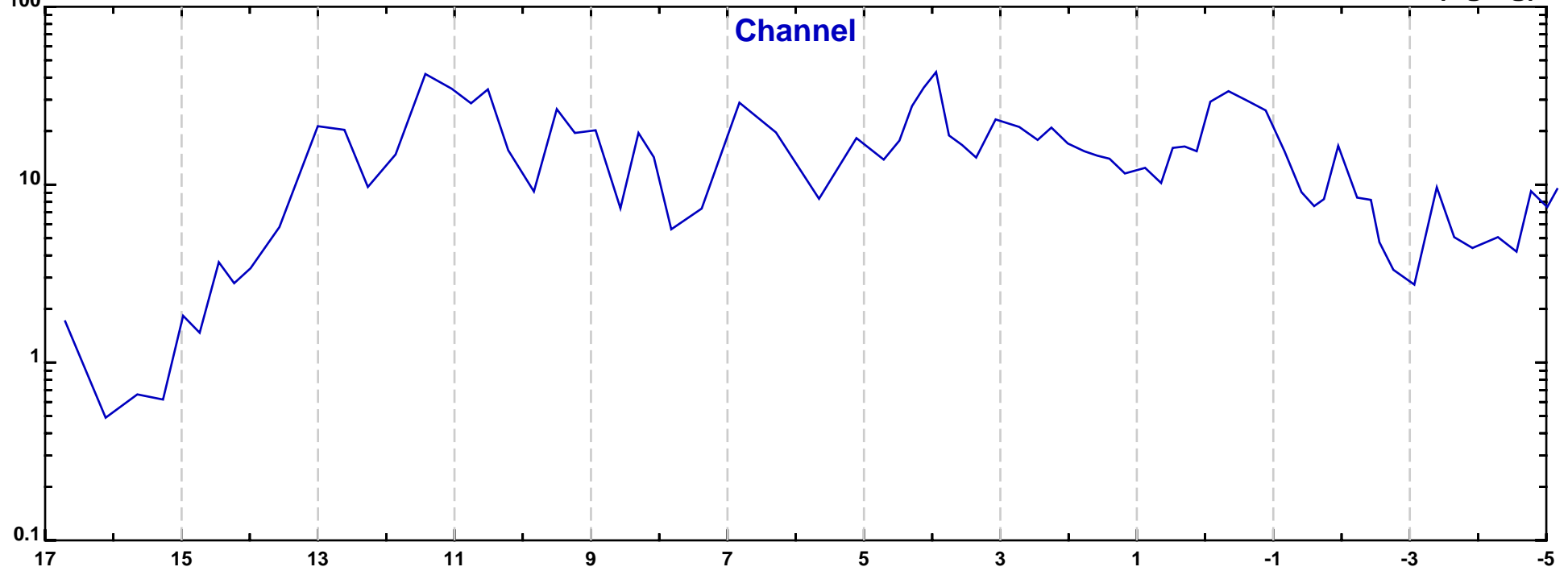
River Mile

Year =2010.0

BZ#105 (ug/kg)

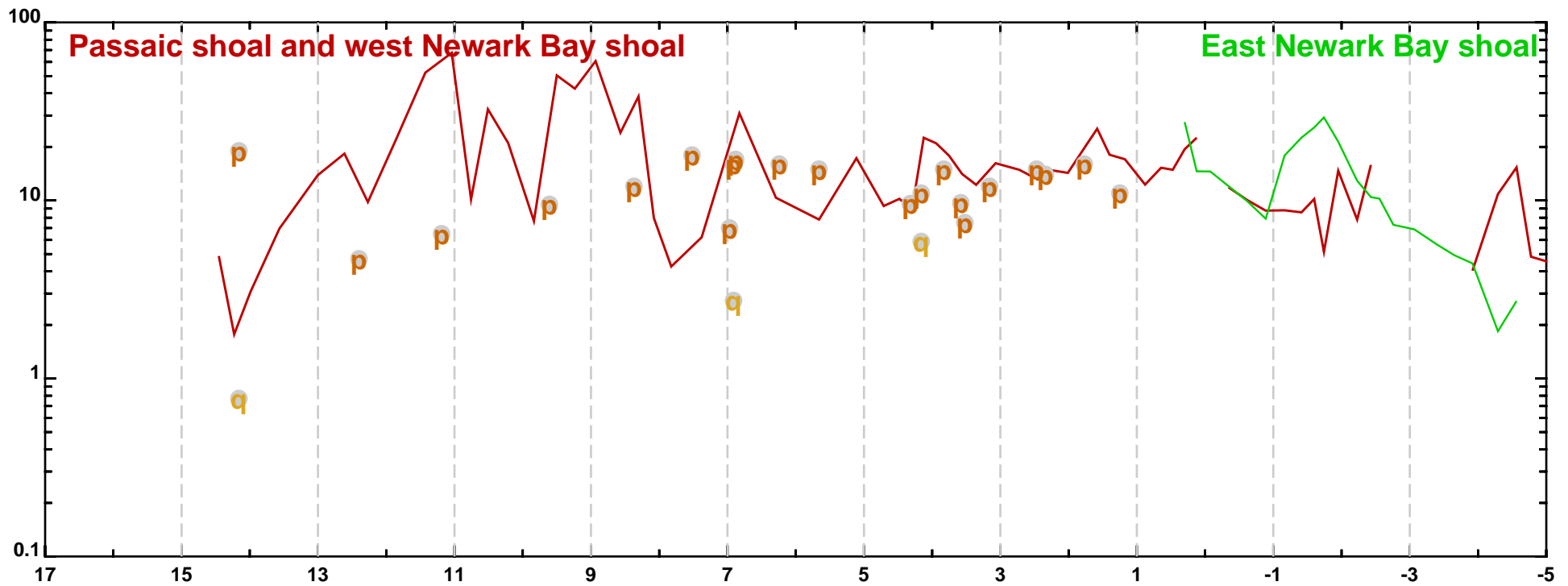
Top 15cm Conc. (ug/kg-DW)

Channel

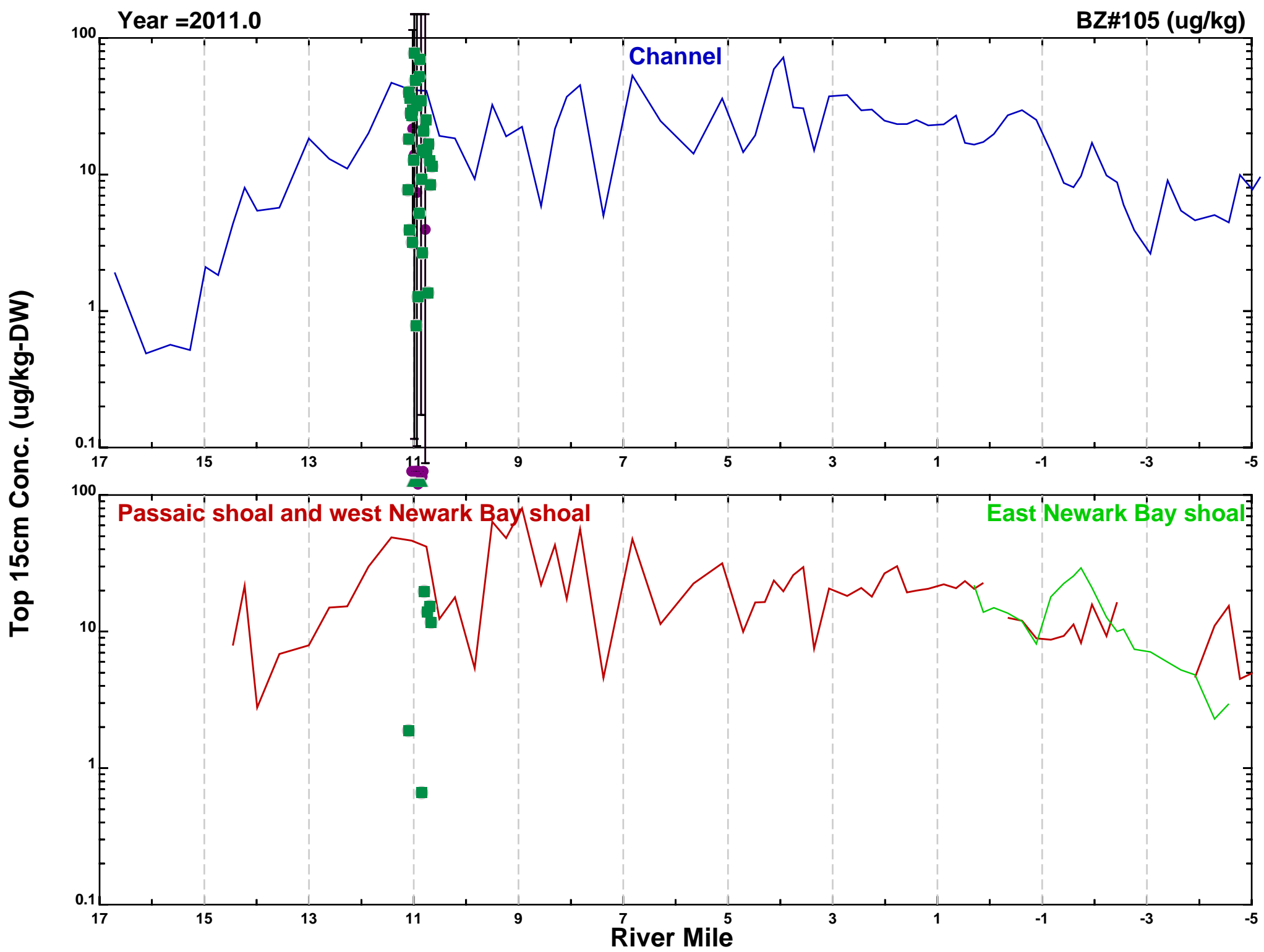


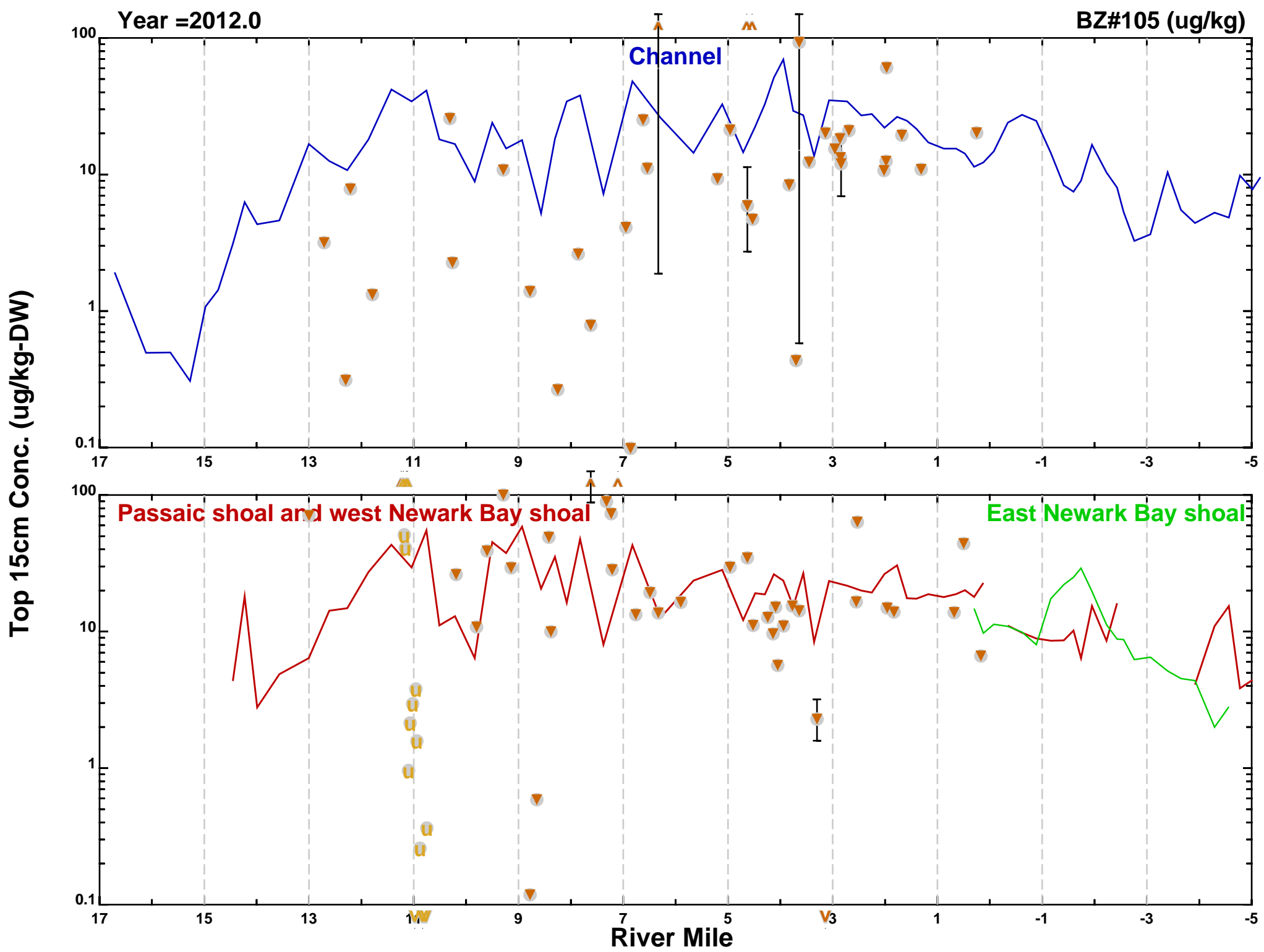
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



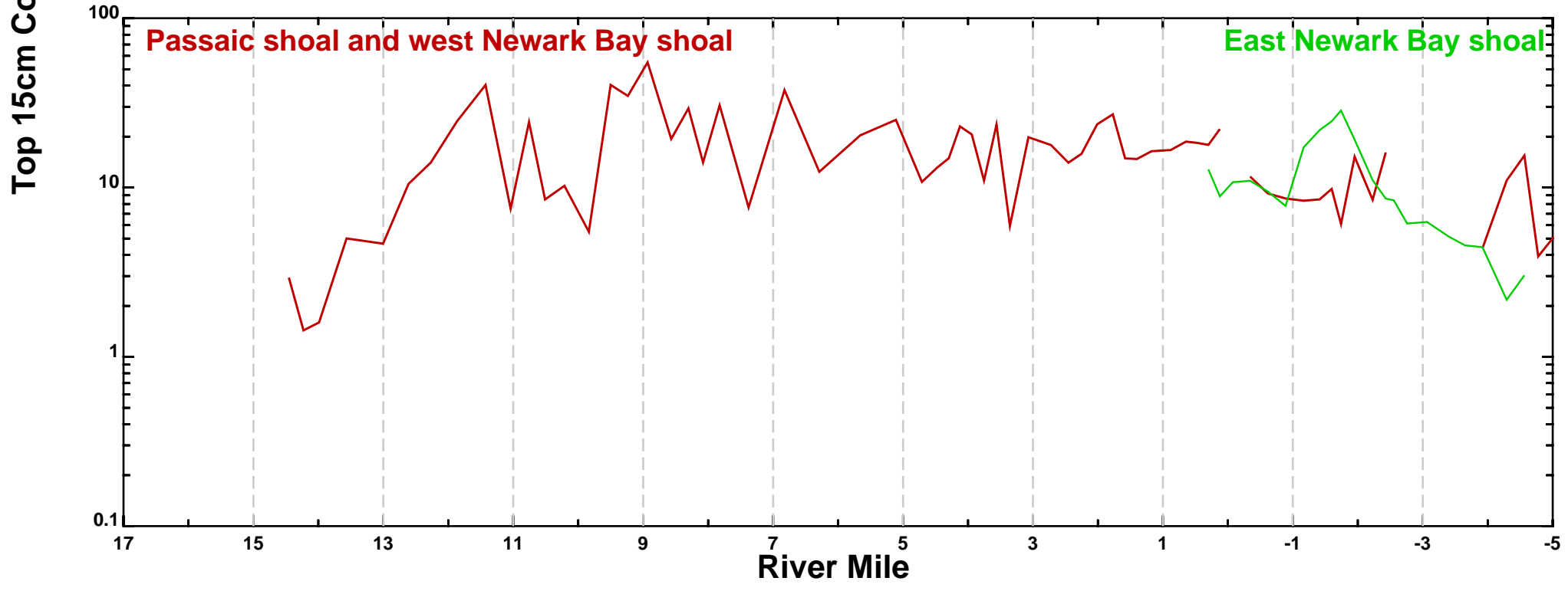
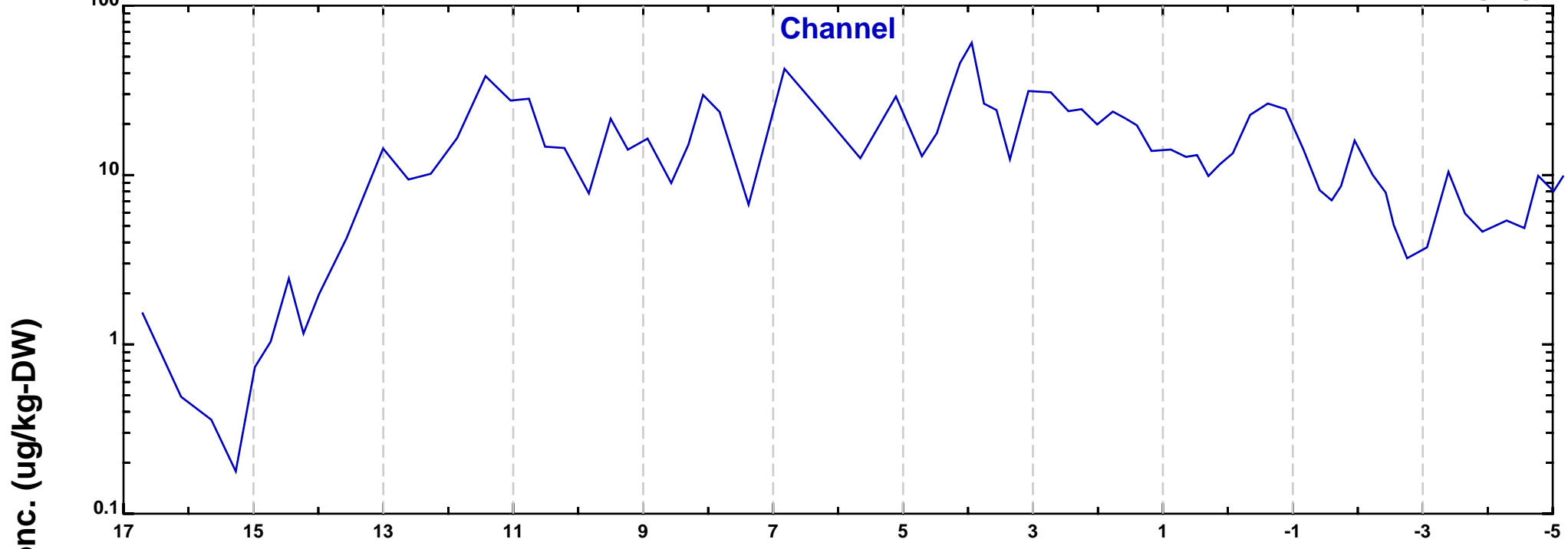
River Mile



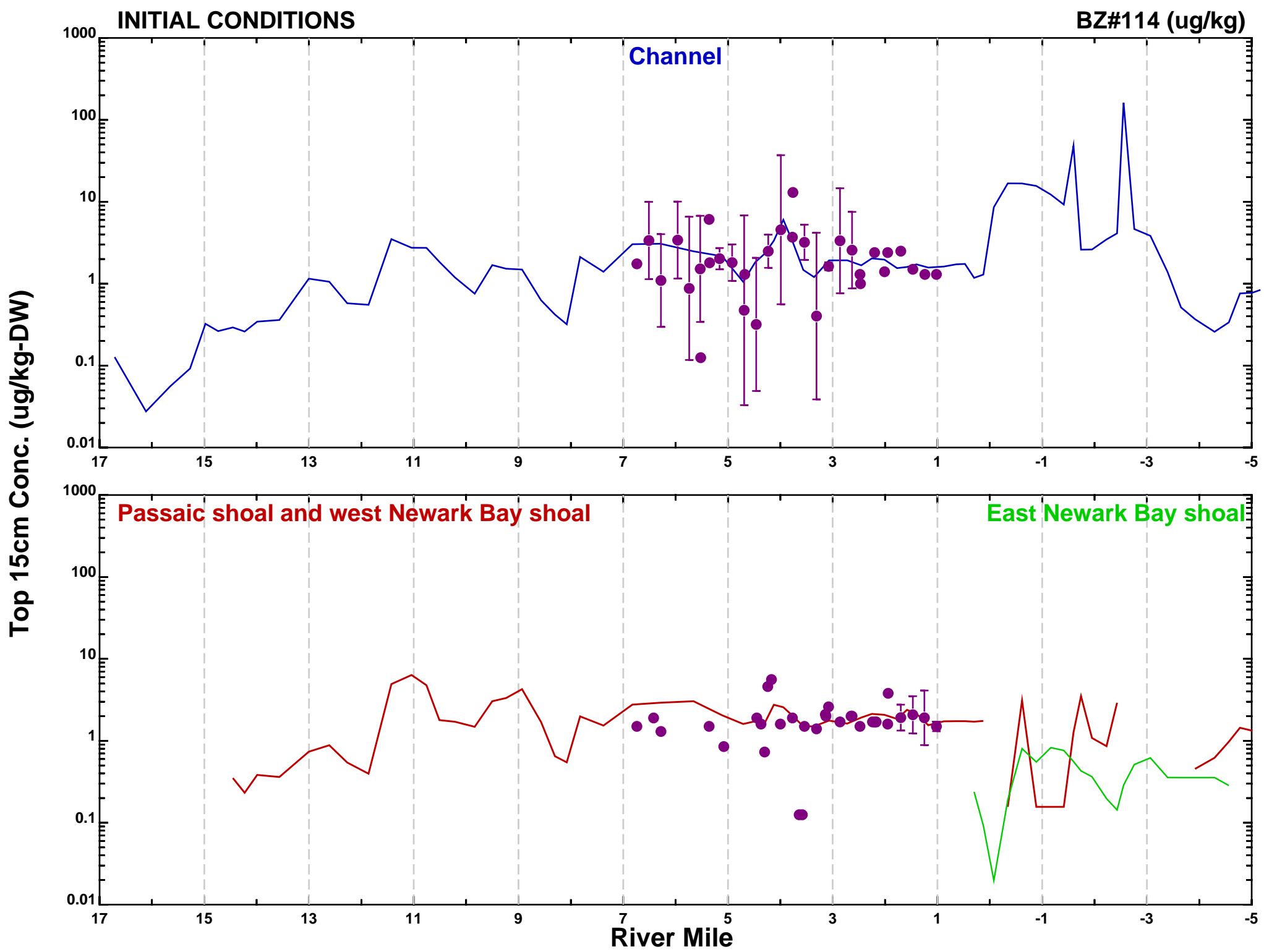


Year =2013.0

BZ#105 (ug/kg)

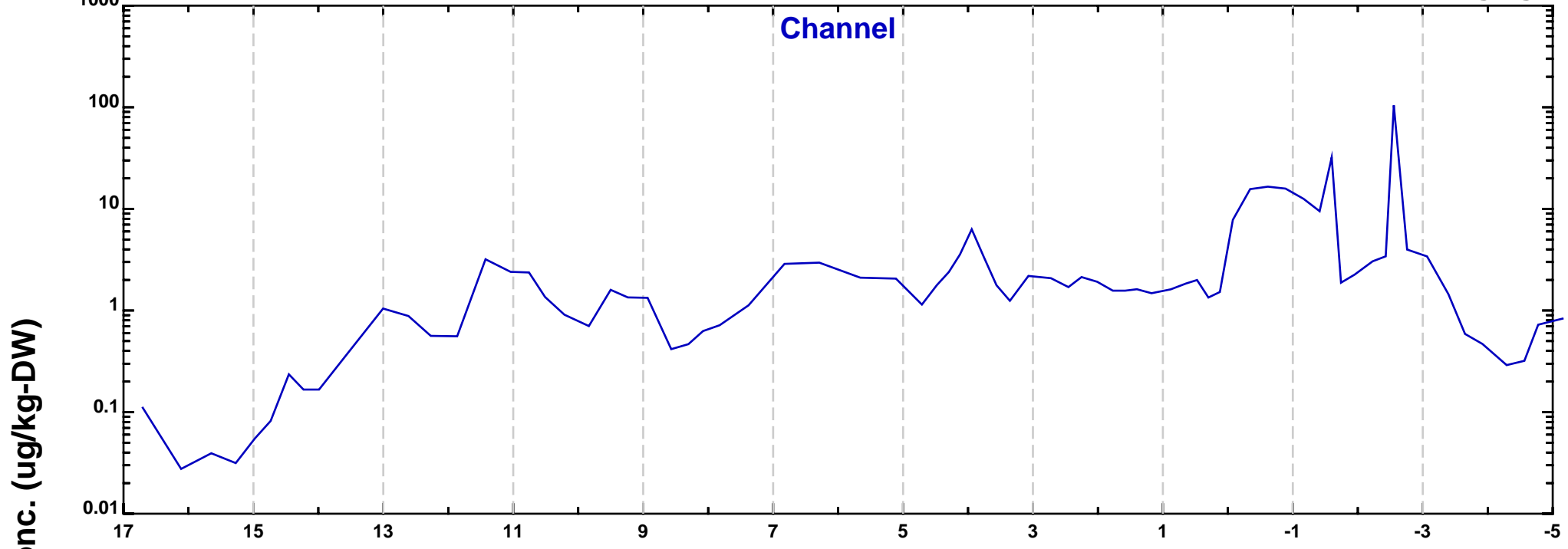






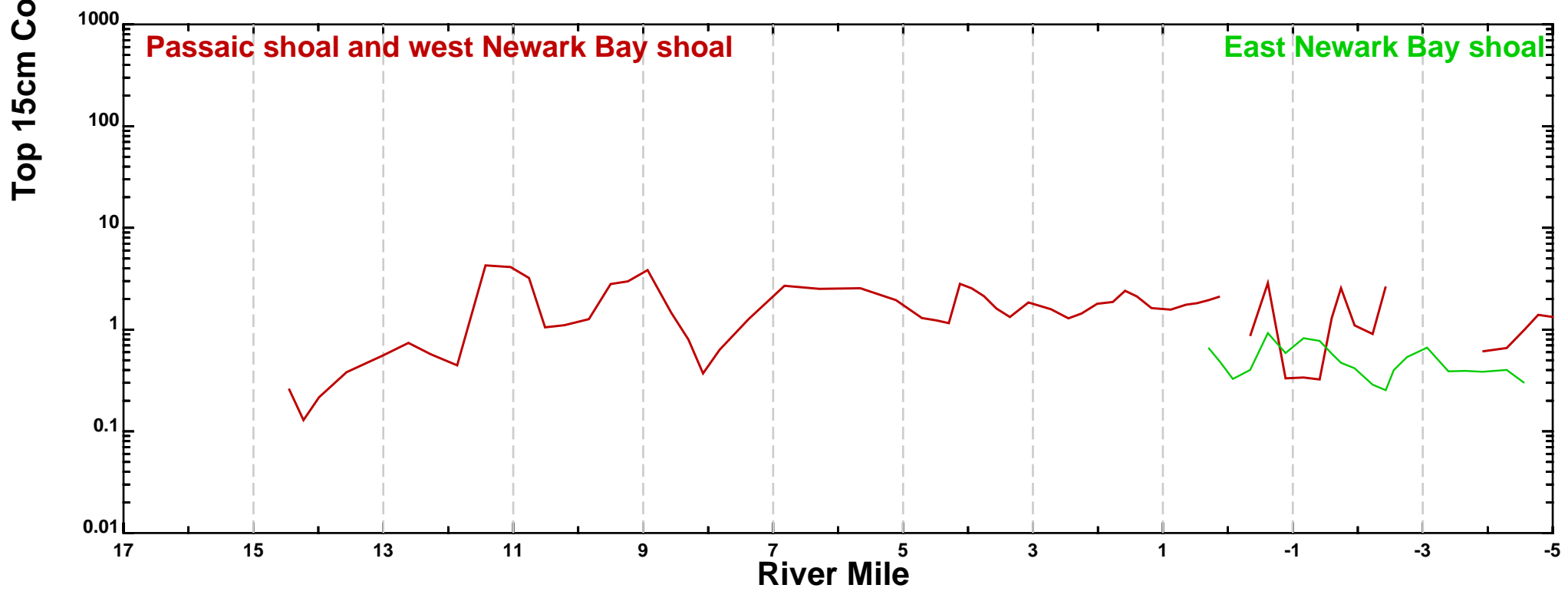
Year = 1996.0

BZ#114 (ug/kg)



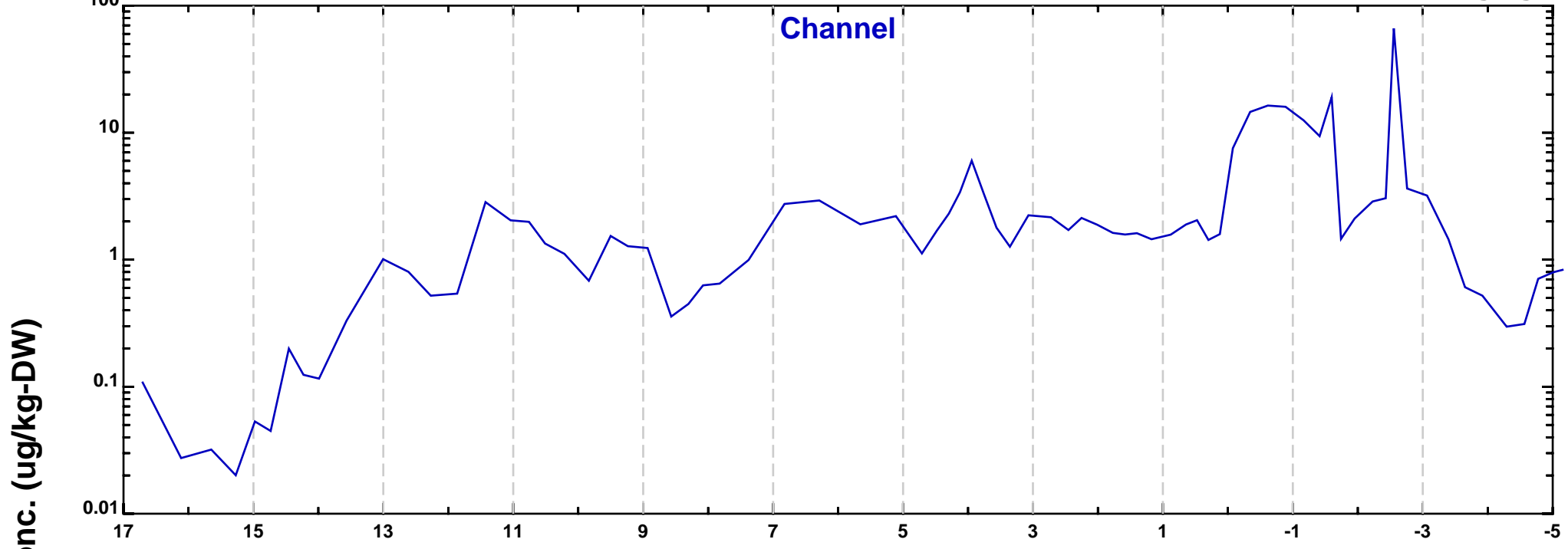
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



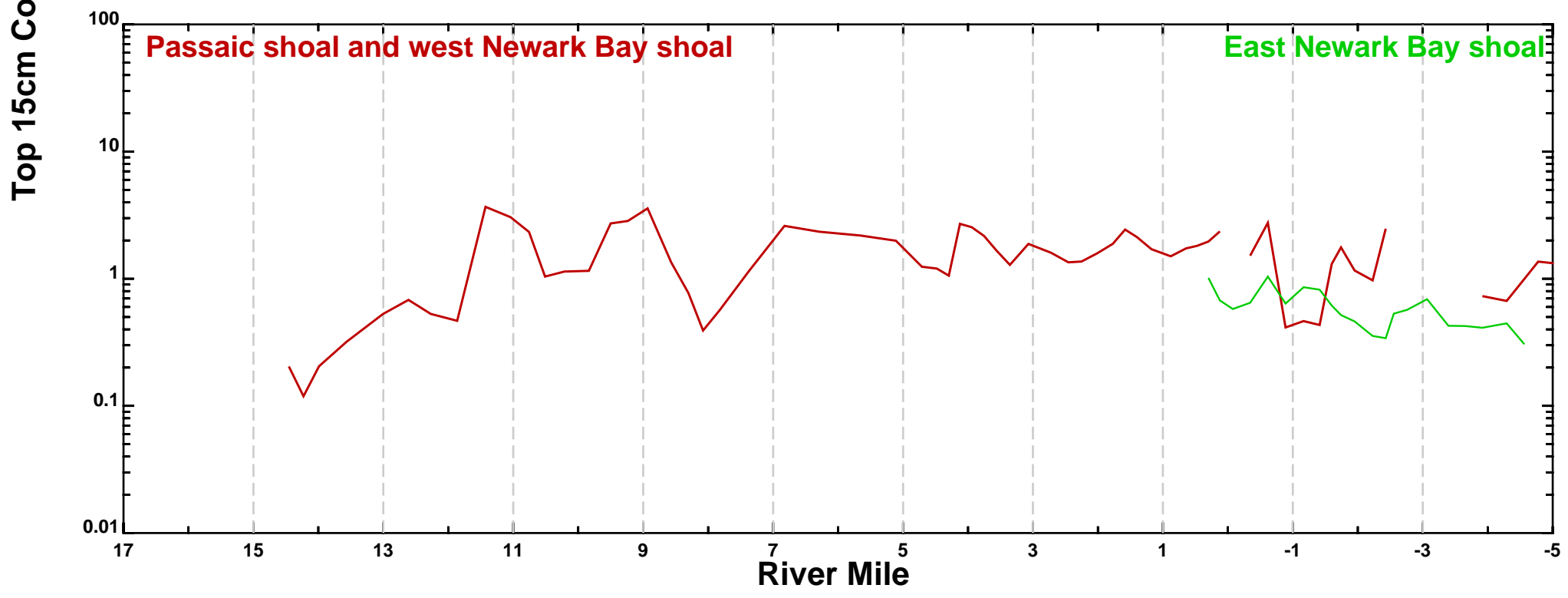
Year = 1997.0

BZ#114 (ug/kg)



Passaic shoal and west Newark Bay shoal

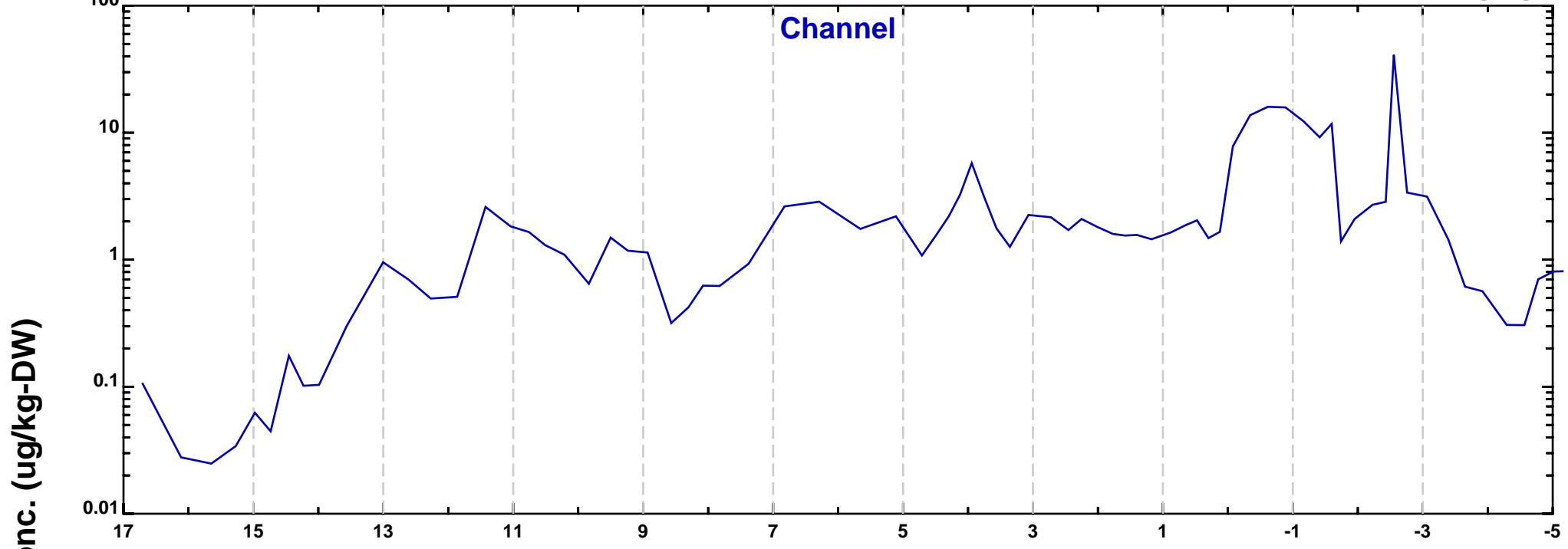
East Newark Bay shoal



River Mile

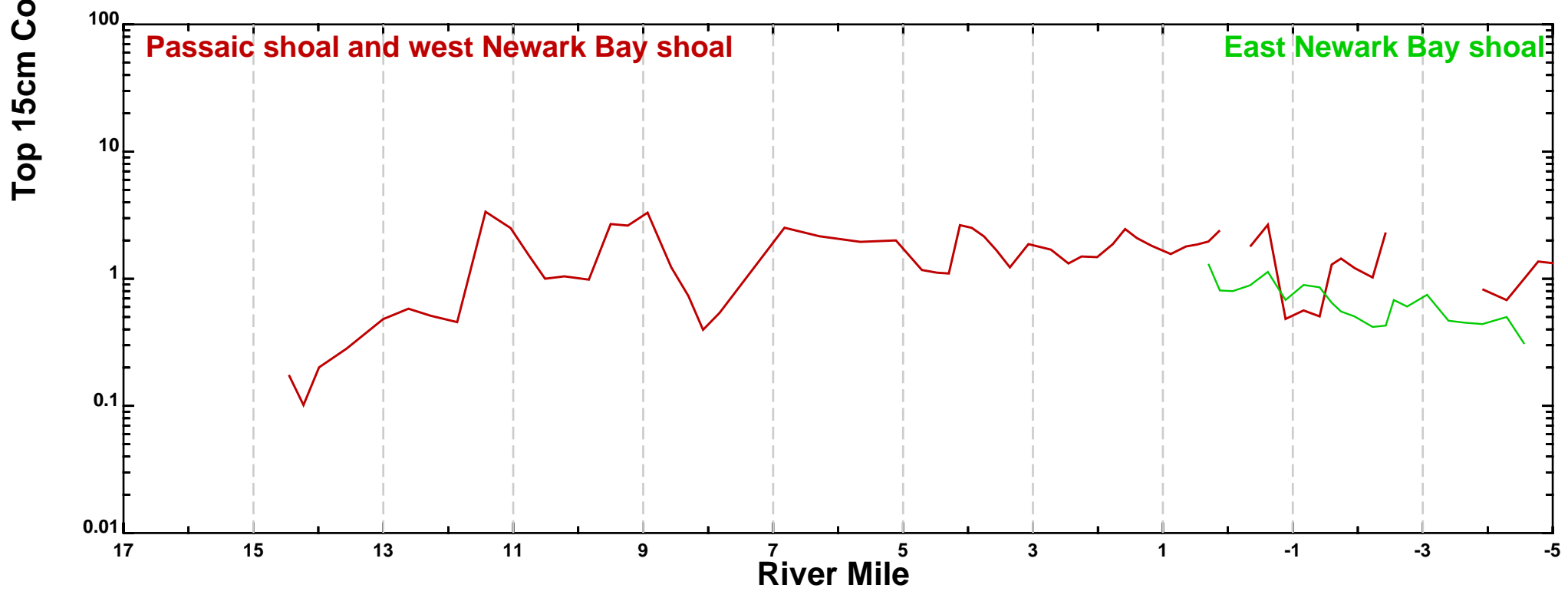
Year = 1998.0

BZ#114 (ug/kg)



Passaic shoal and west Newark Bay shoal

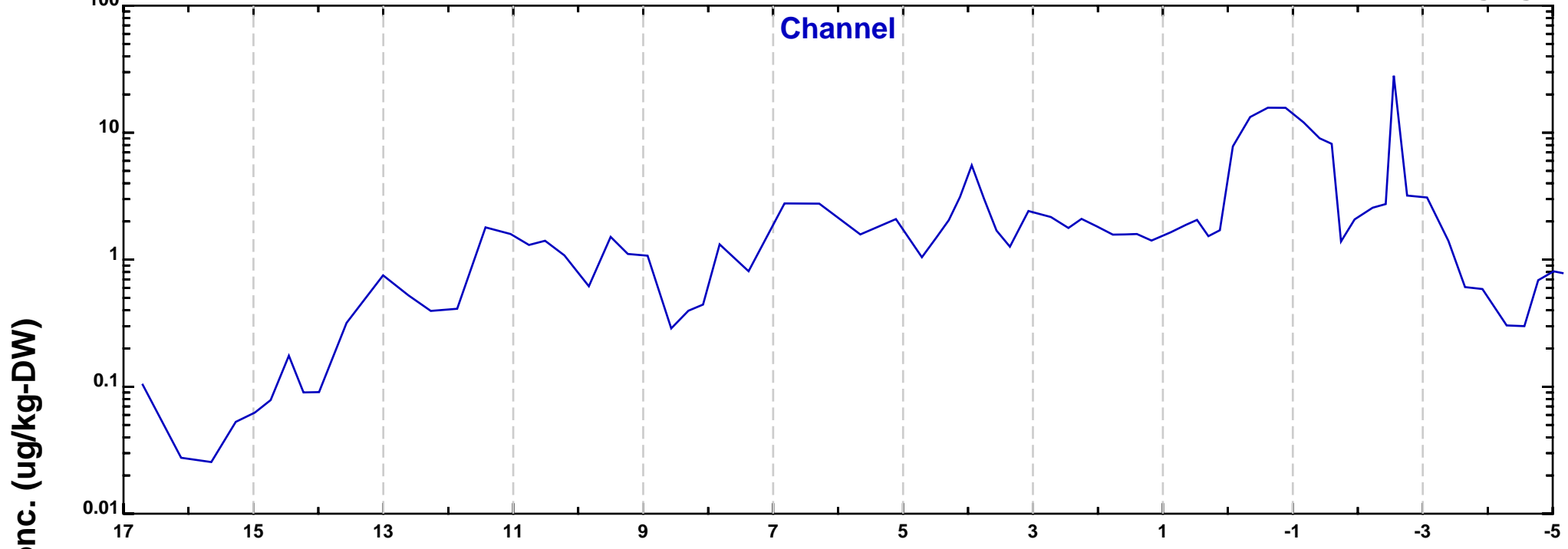
East Newark Bay shoal



River Mile

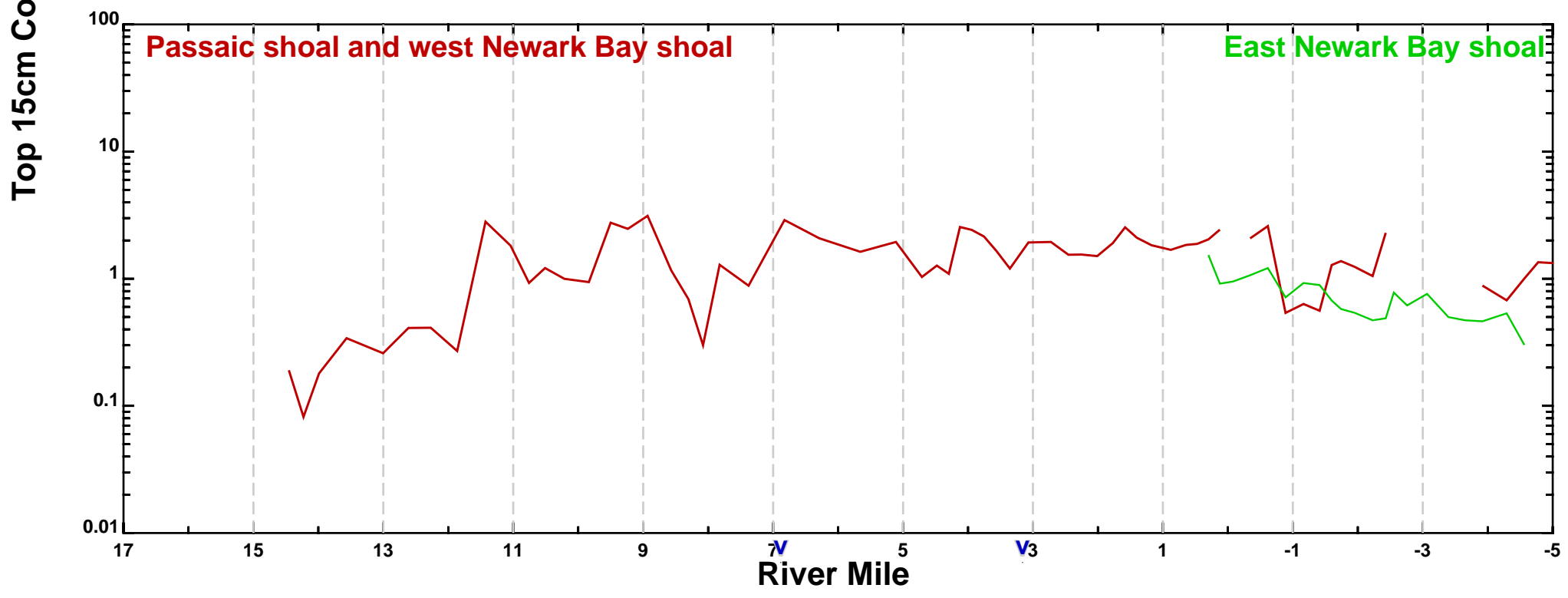
Year = 1999.0

BZ#114 (ug/kg)



Passaic shoal and west Newark Bay shoal

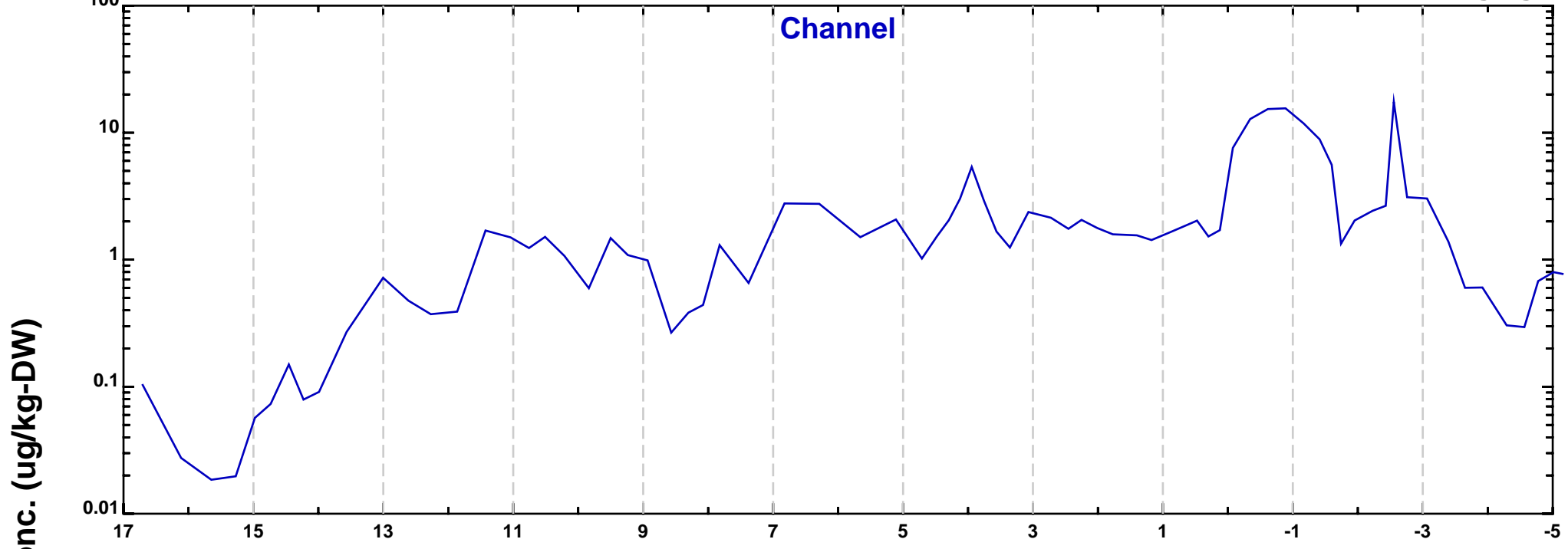
East Newark Bay shoal



River Mile

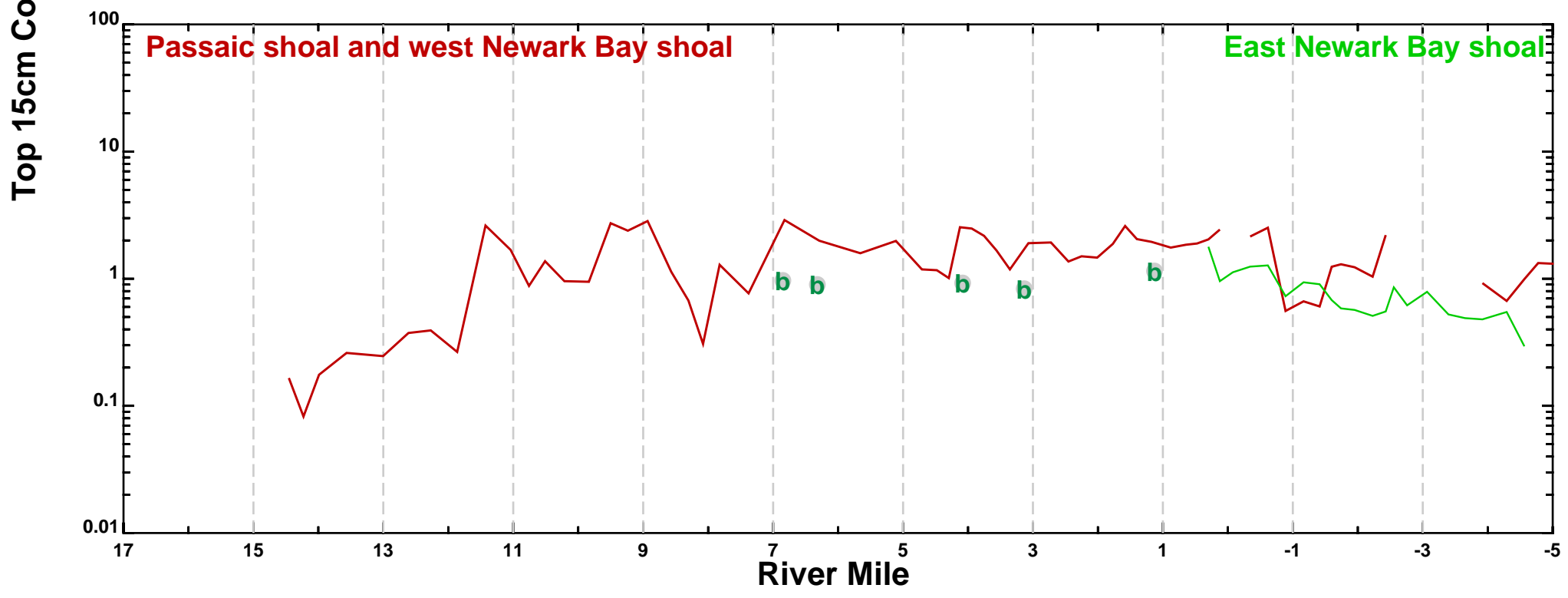
Year =2000.0

BZ#114 (ug/kg)



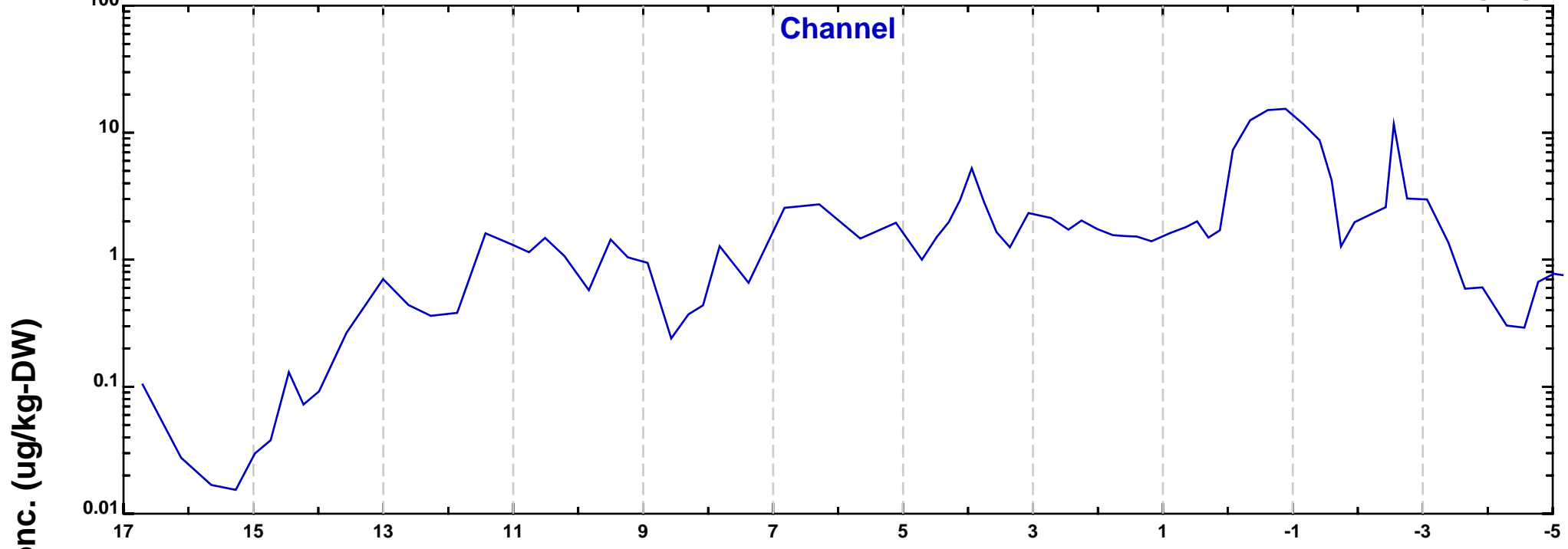
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



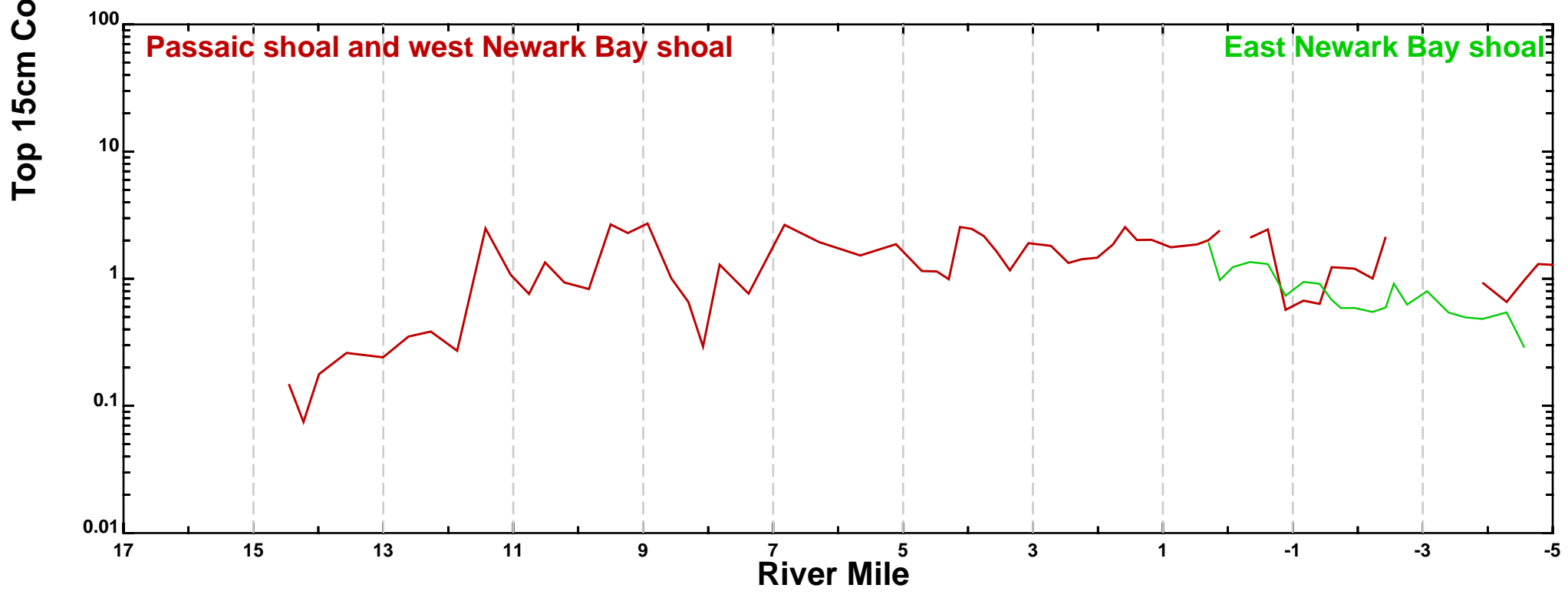
Year =2001.0

BZ#114 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



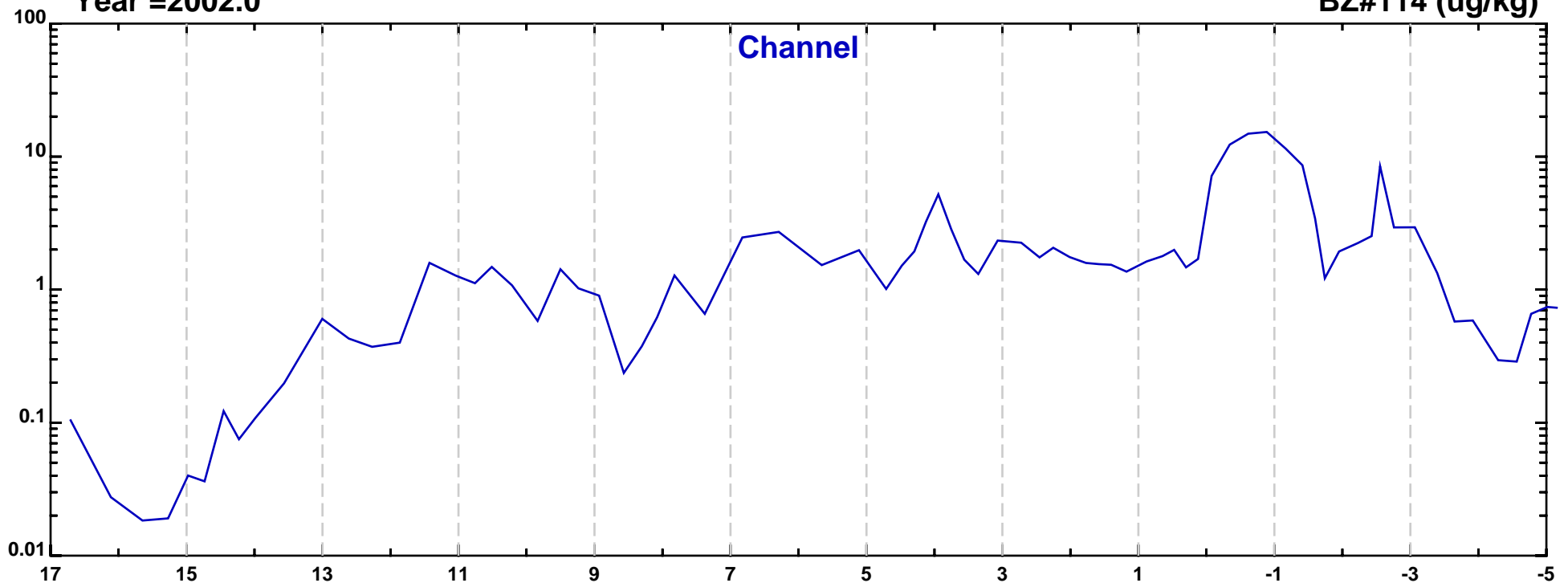
River Mile

Year =2002.0

BZ#114 (ug/kg)

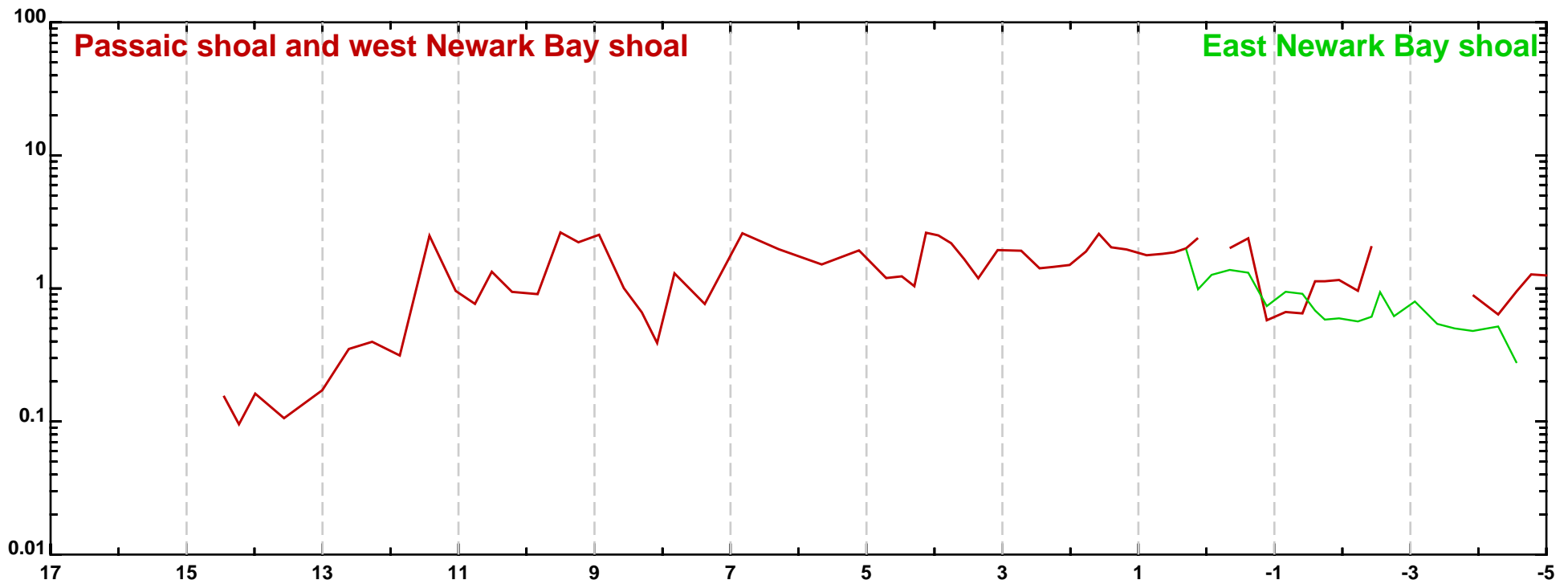
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

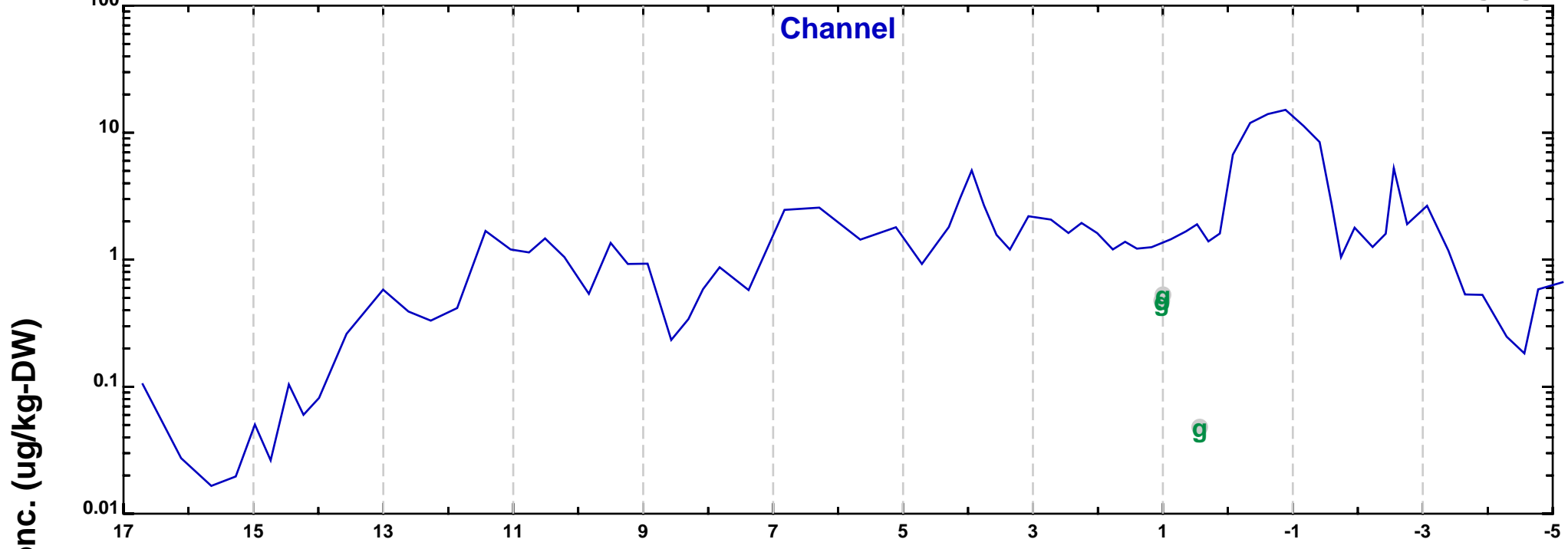


River Mile



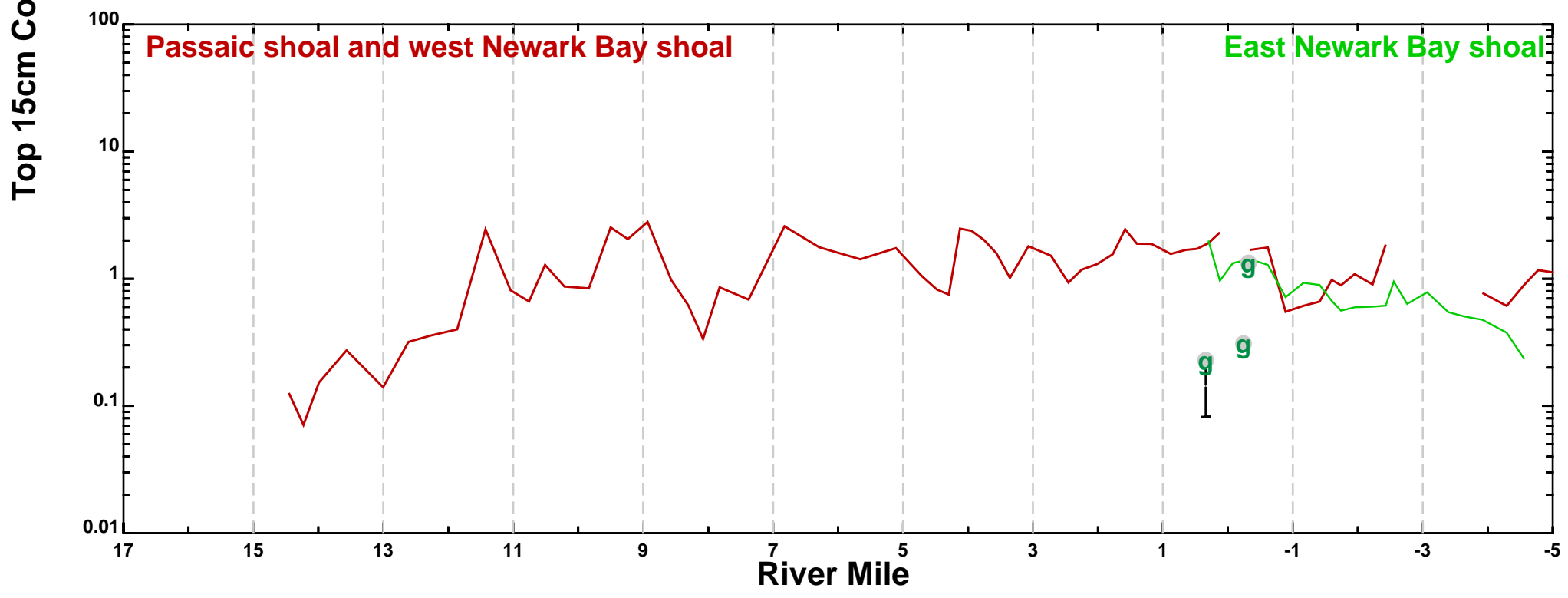
Year =2003.0

BZ#114 (ug/kg)



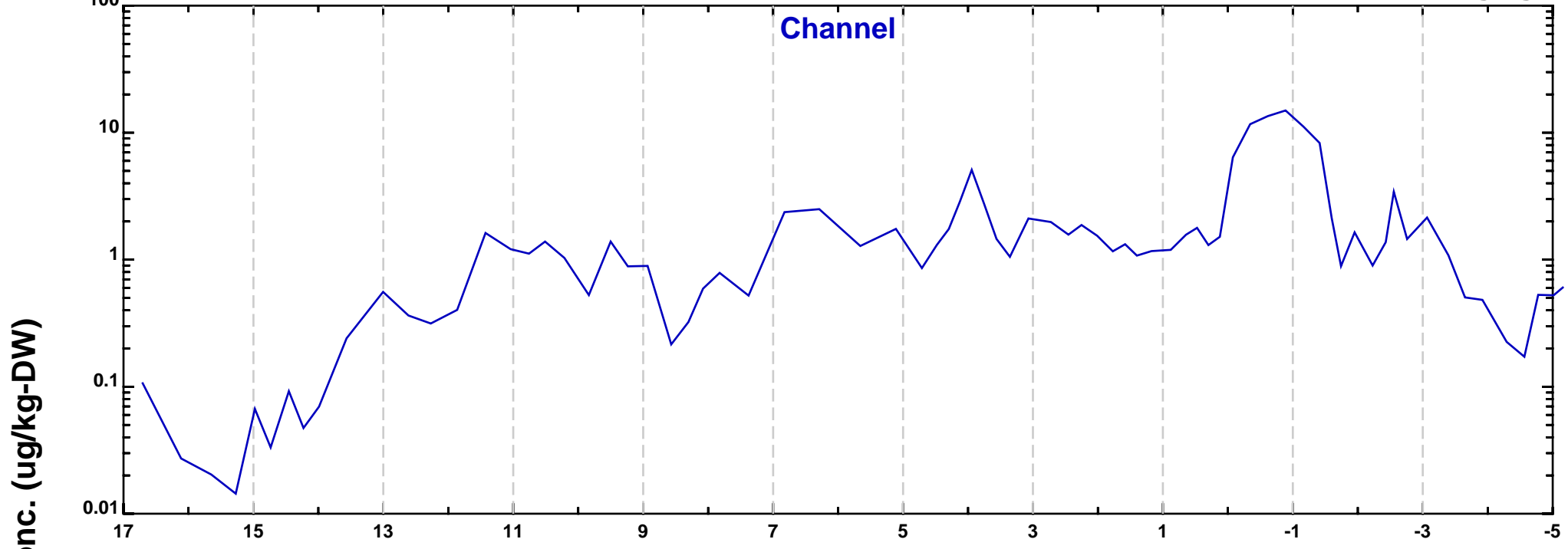
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



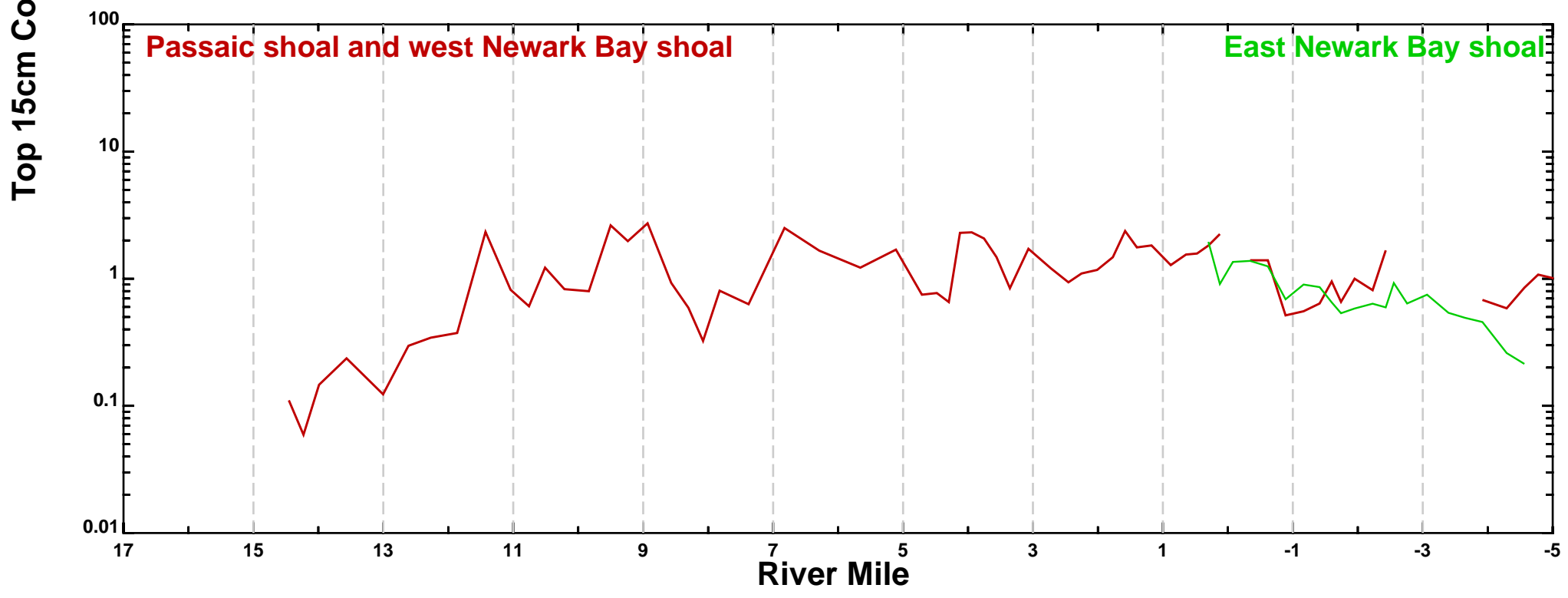
Year =2004.0

BZ#114 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



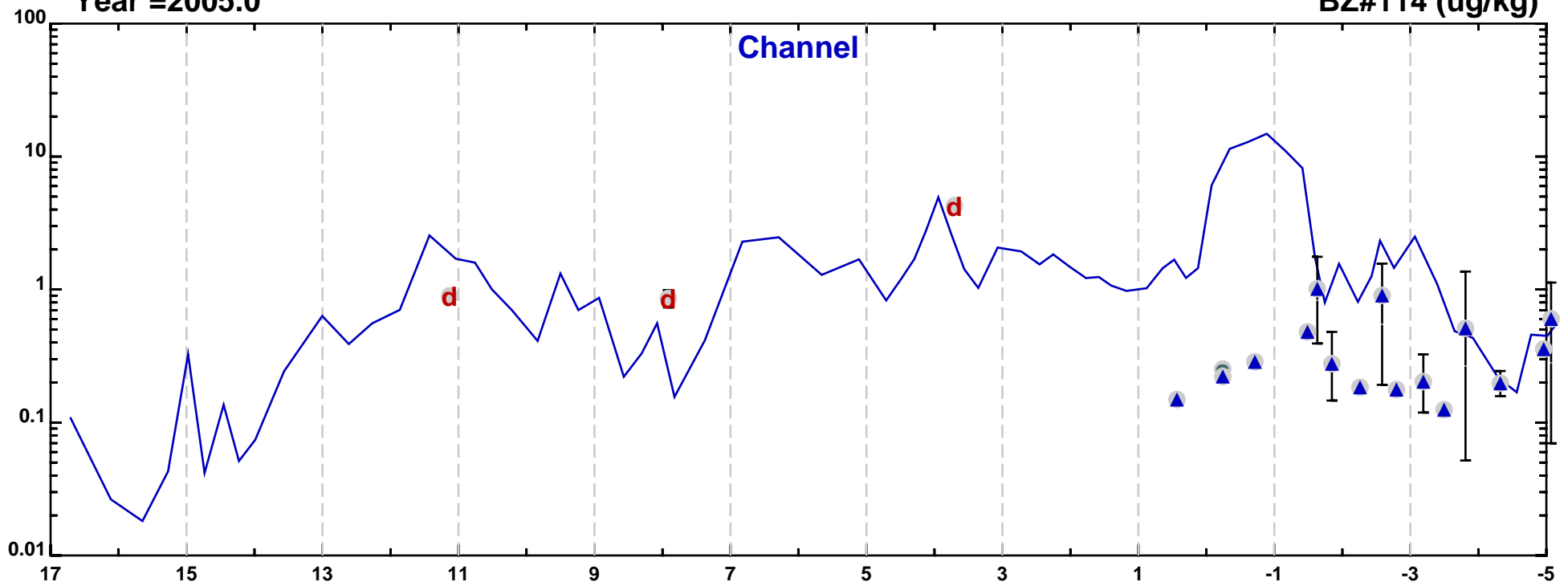
River Mile

Year =2005.0

BZ#114 (ug/kg)

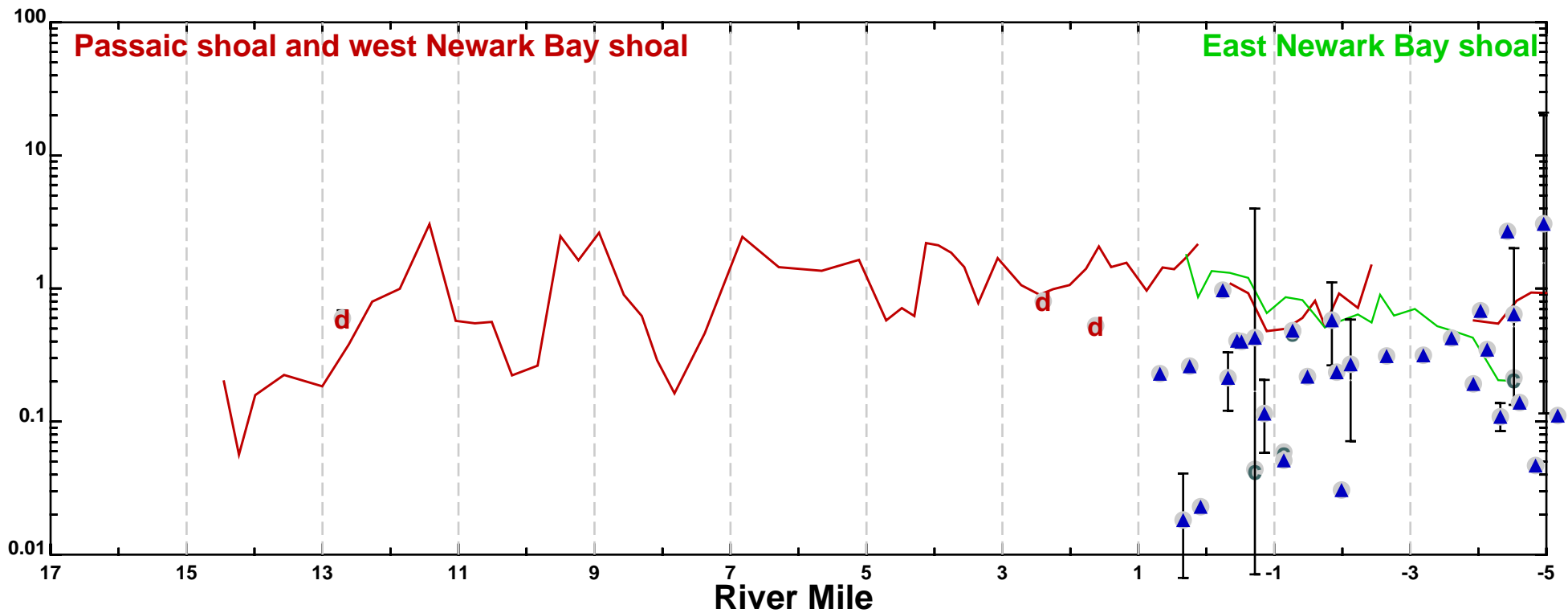
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



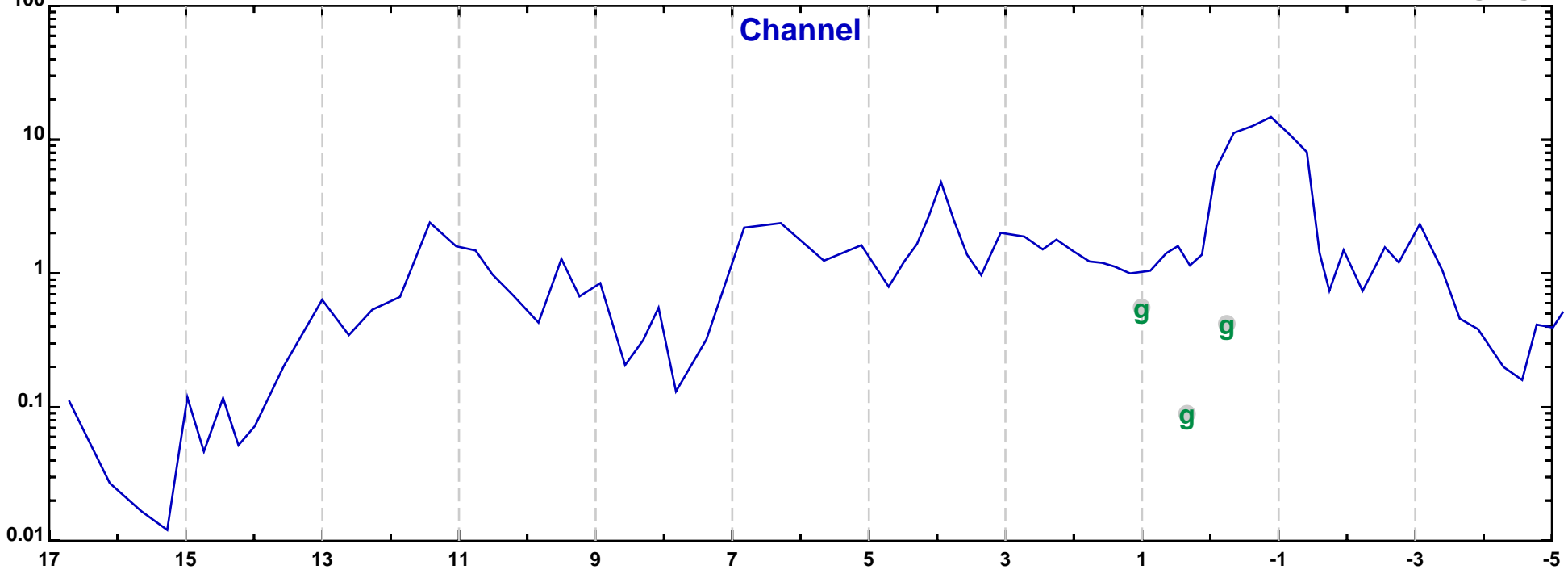
River Mile

Year = 2006.0

BZ#114 (ug/kg)

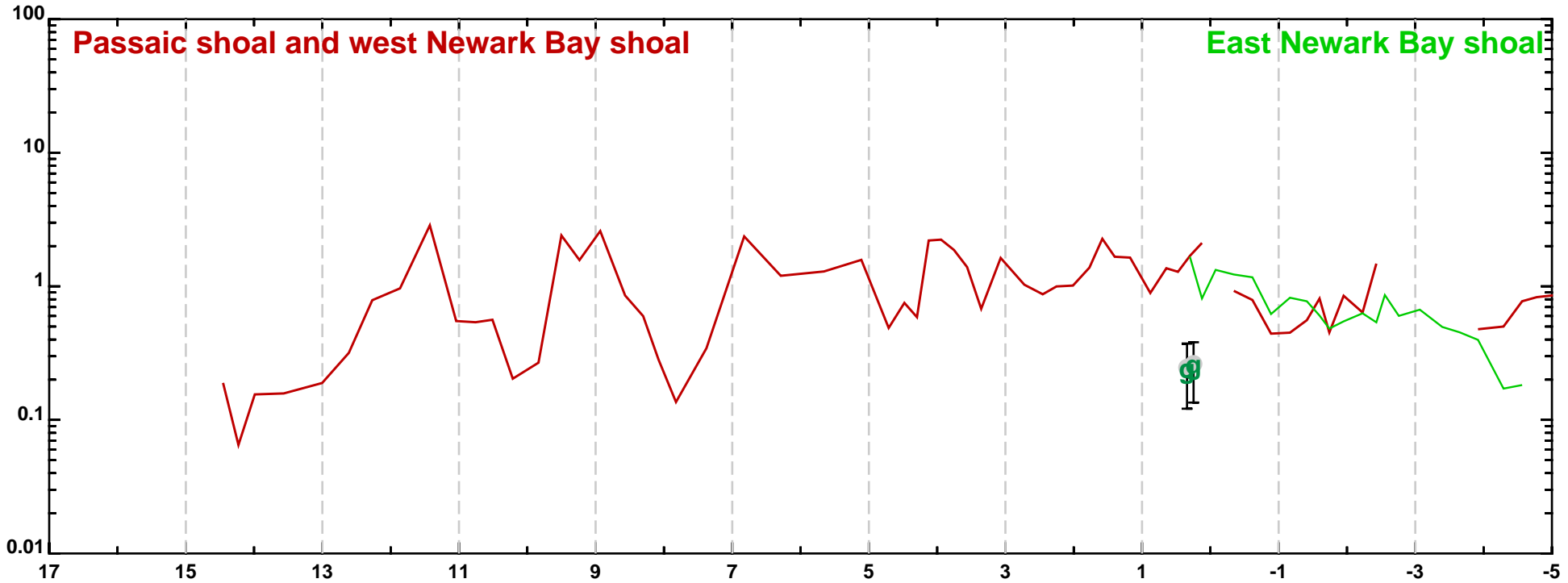
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



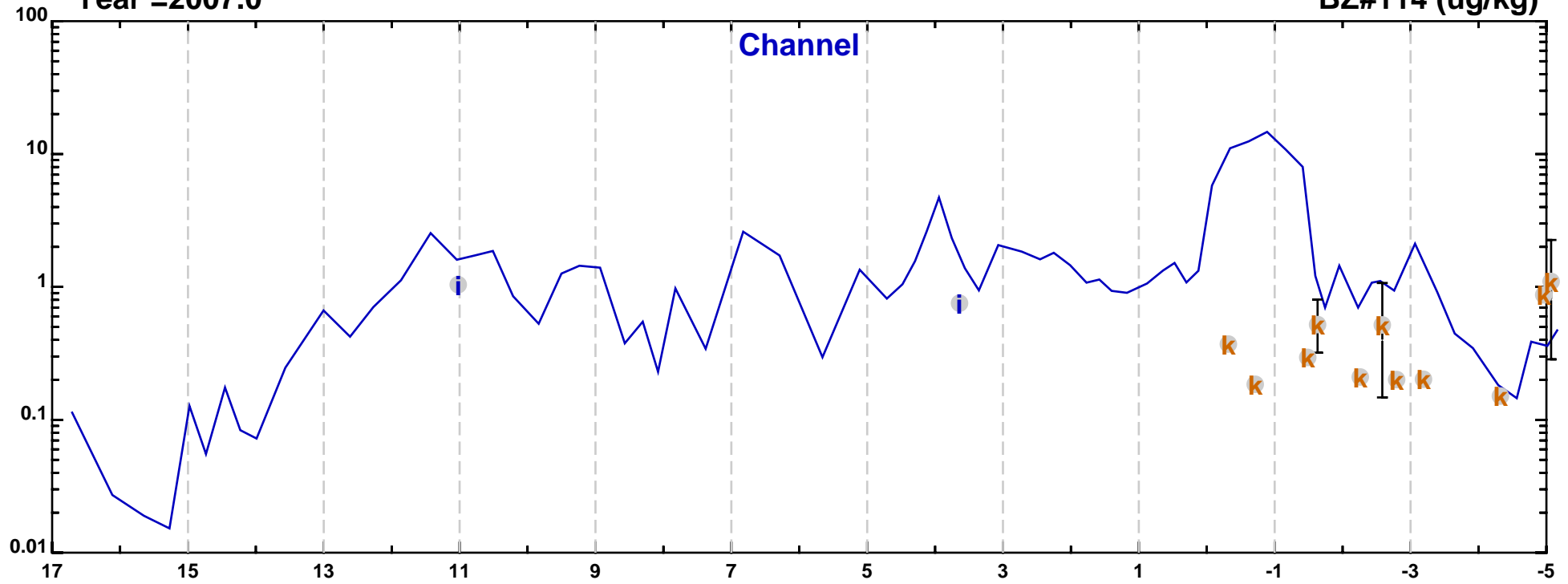
River Mile

Year =2007.0

BZ#114 (ug/kg)

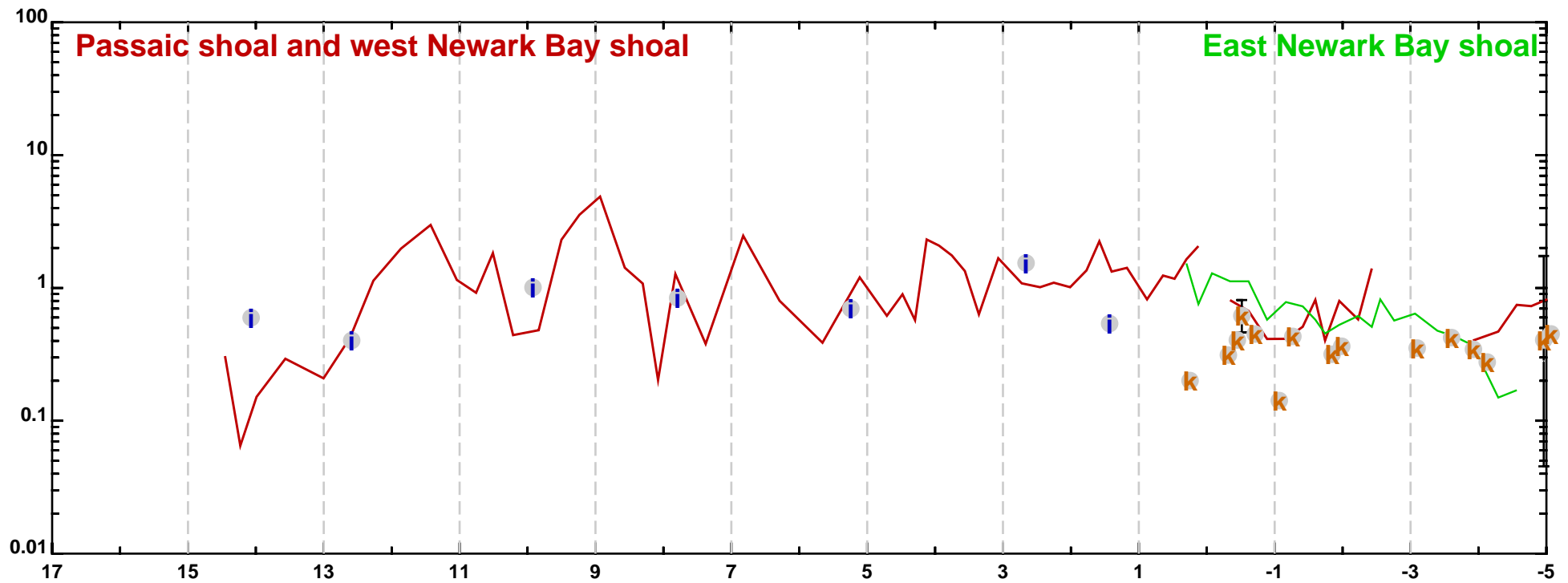
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

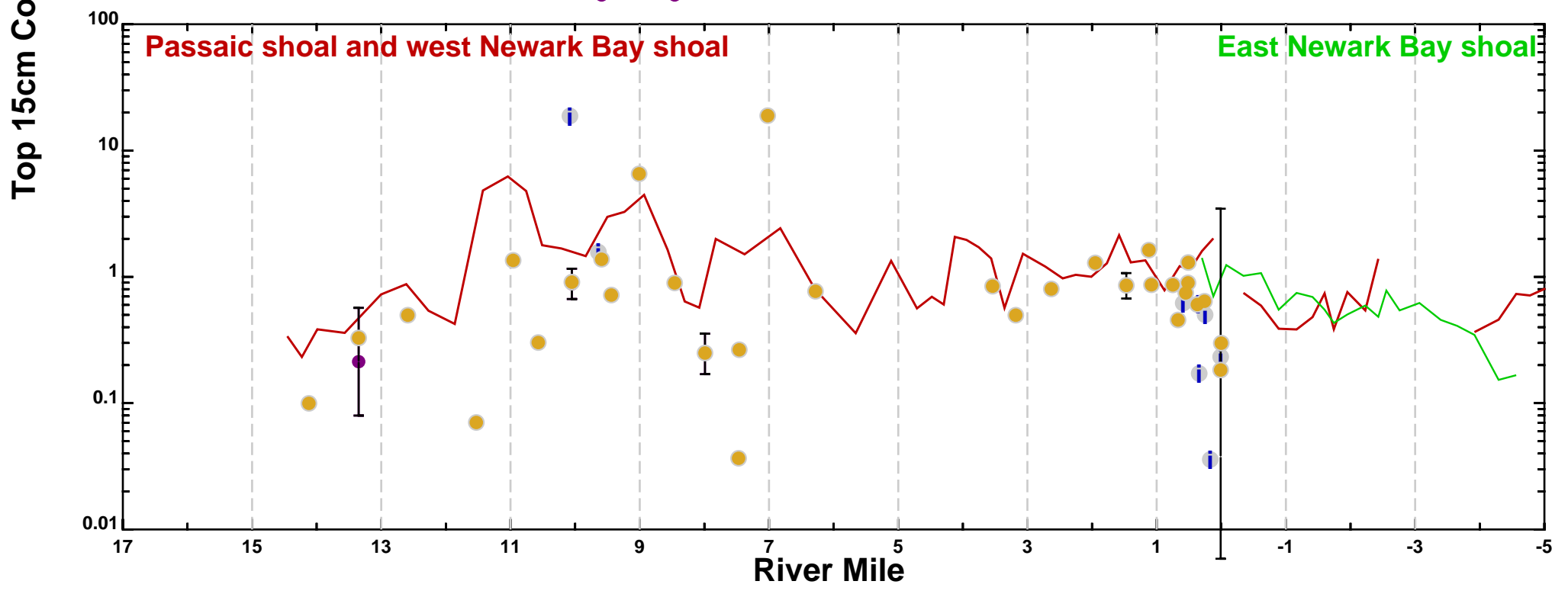
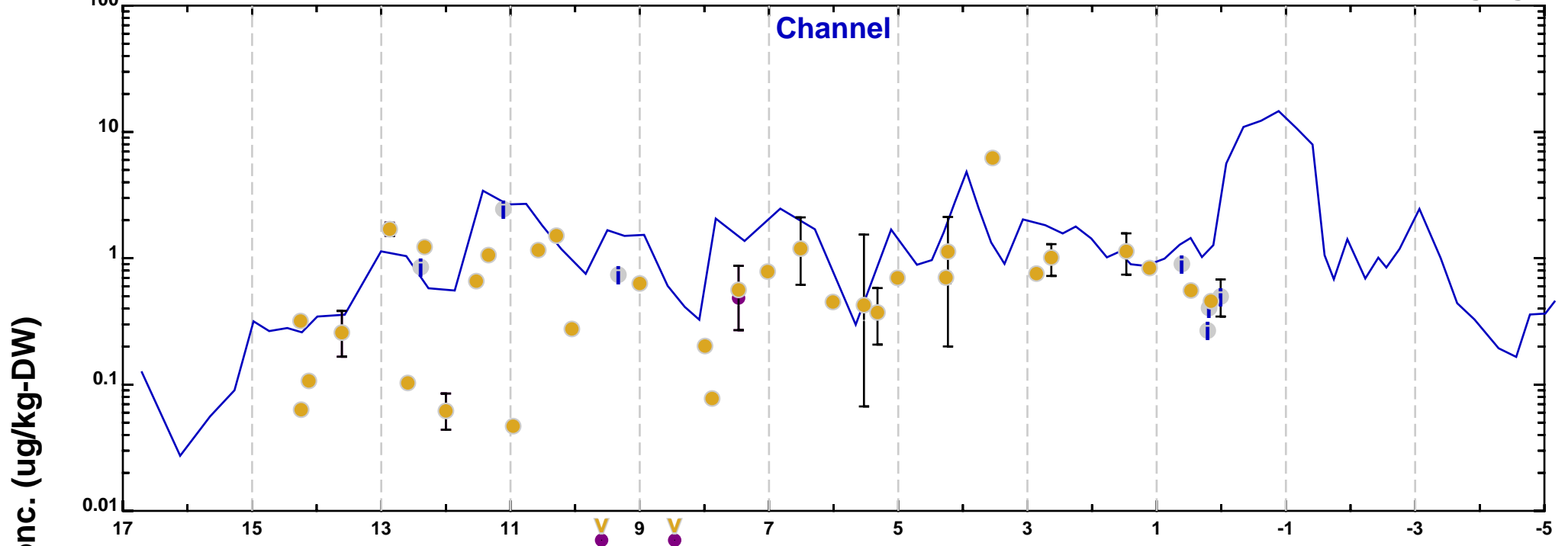
East Newark Bay shoal



River Mile

Year =2008.0

BZ#114 (ug/kg)

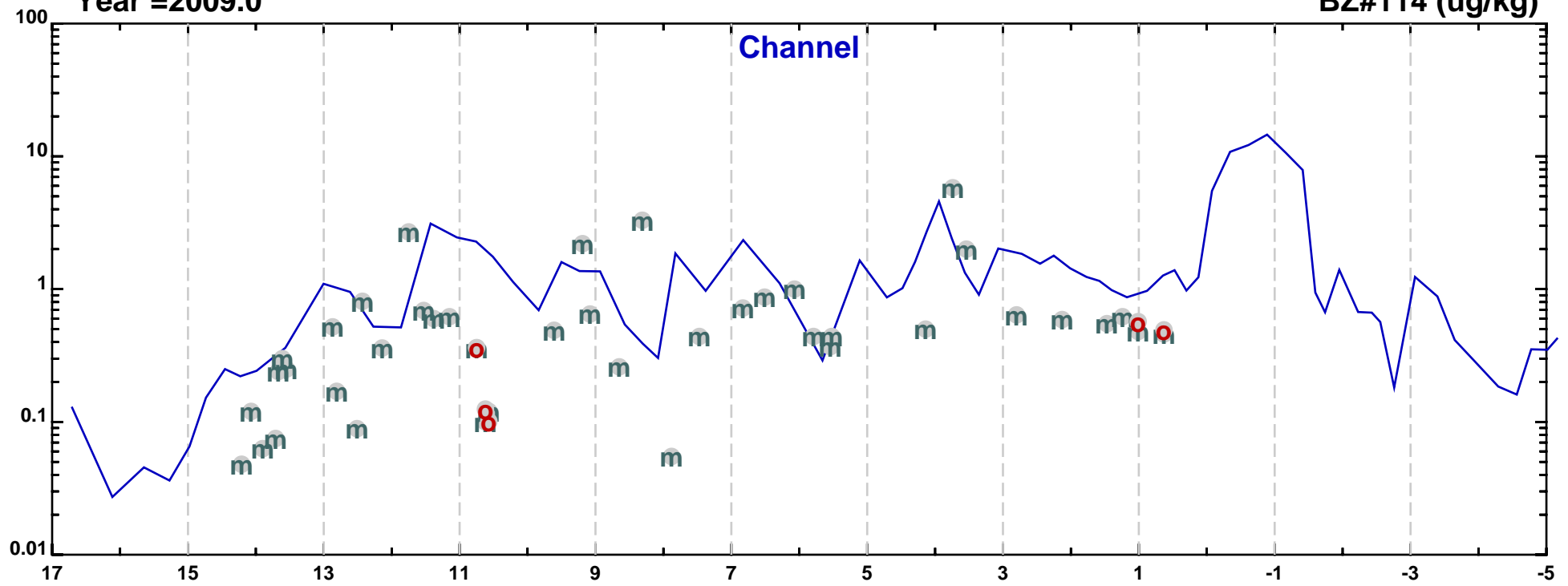


Year =2009.0

BZ#114 (ug/kg)

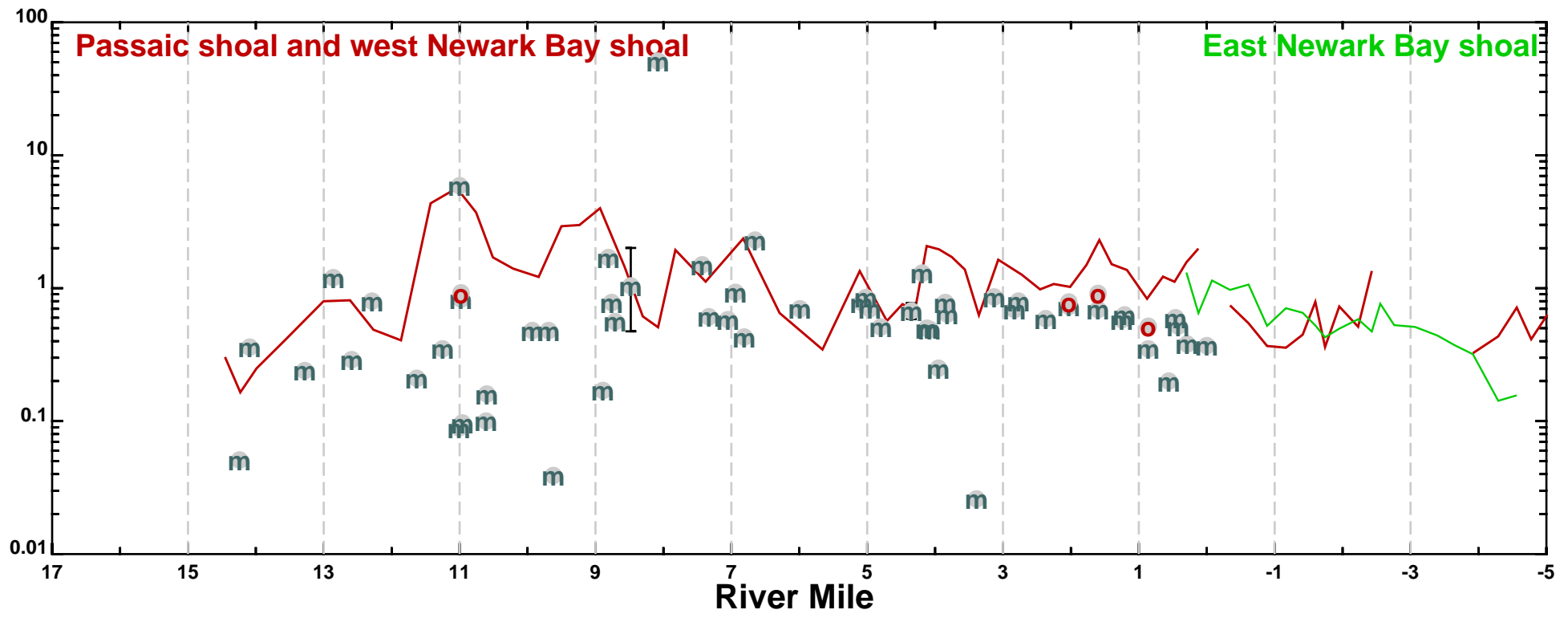
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

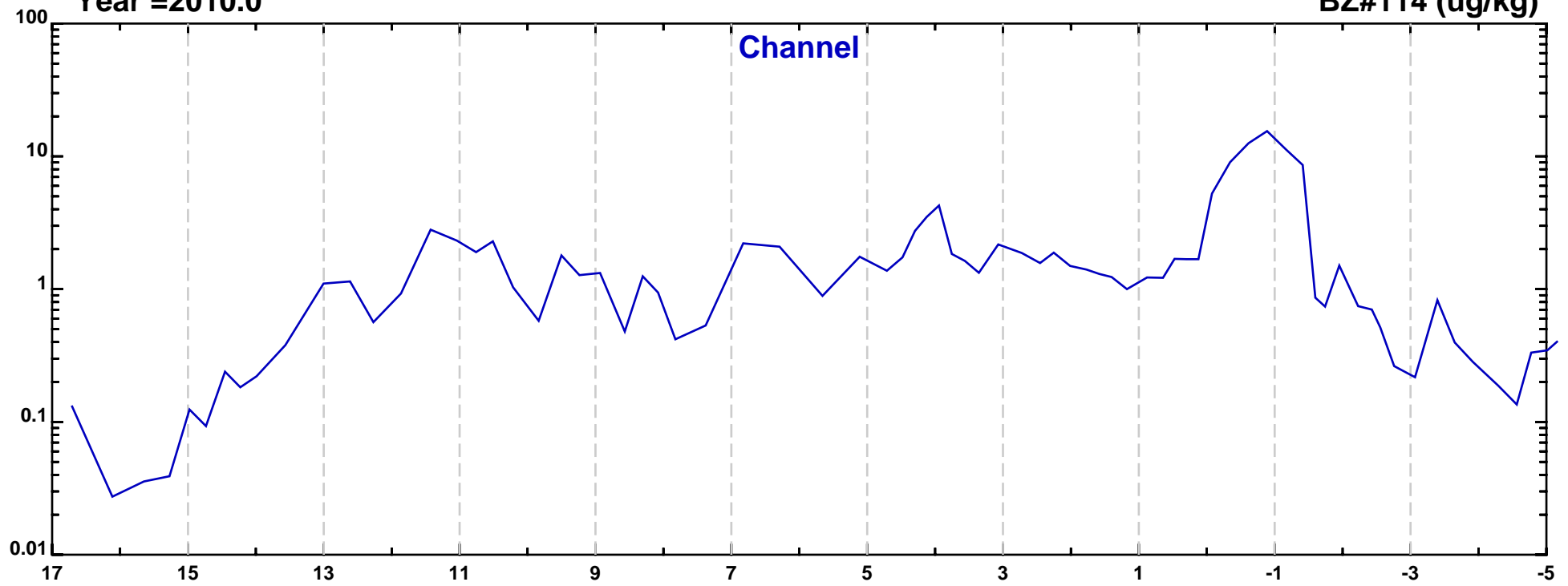


Year =2010.0

BZ#114 (ug/kg)

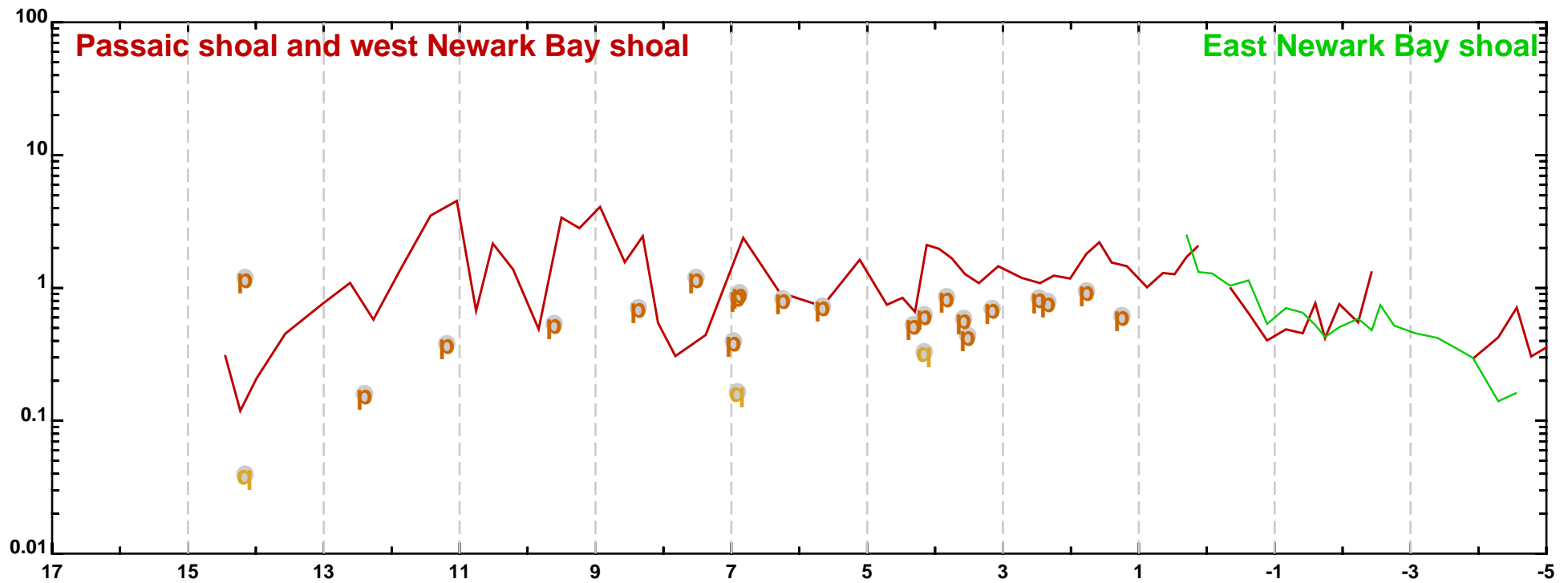
Top 15cm Conc. (ug/kg-DW)

Channel



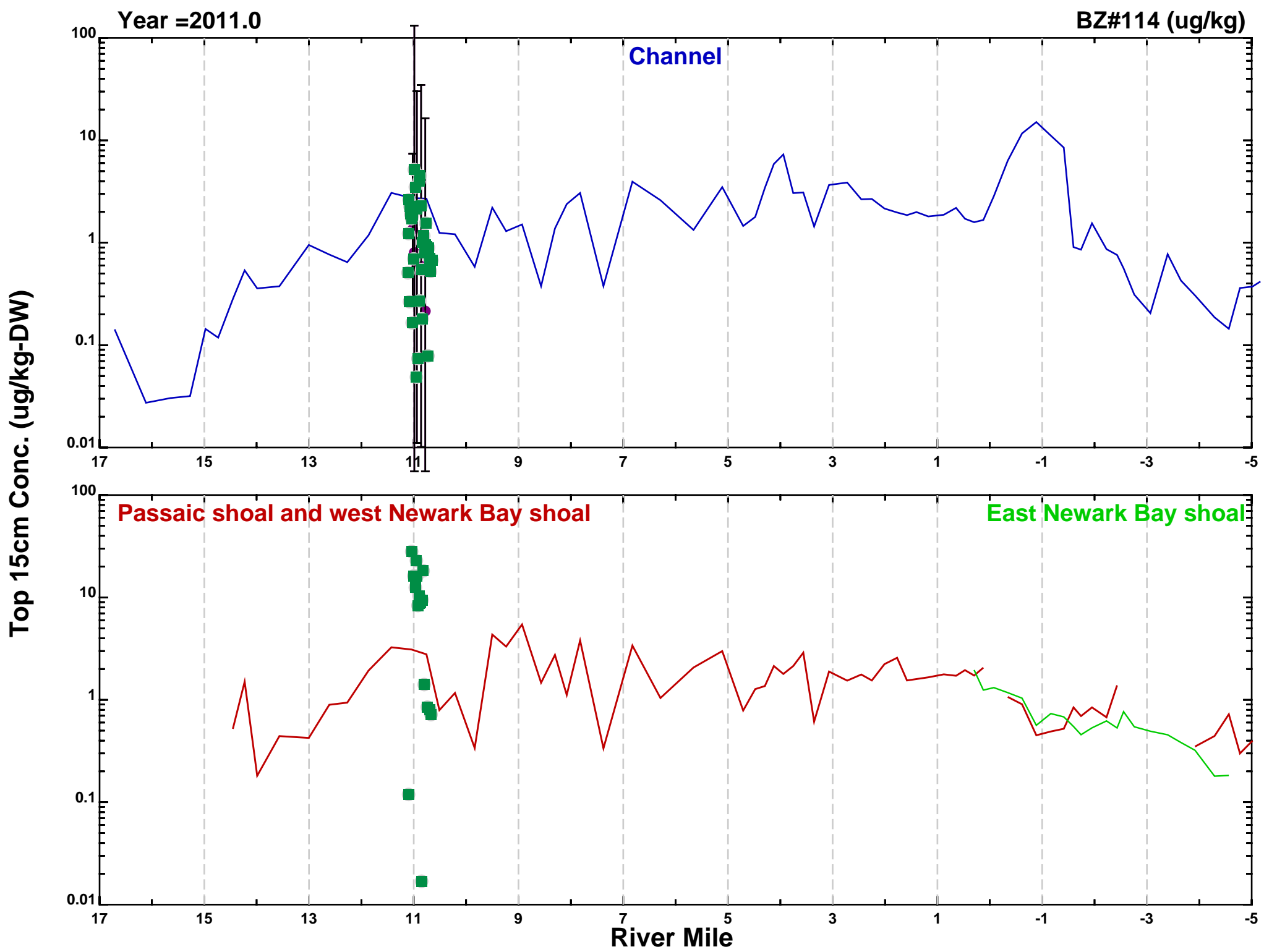
Passaic shoal and west Newark Bay shoal

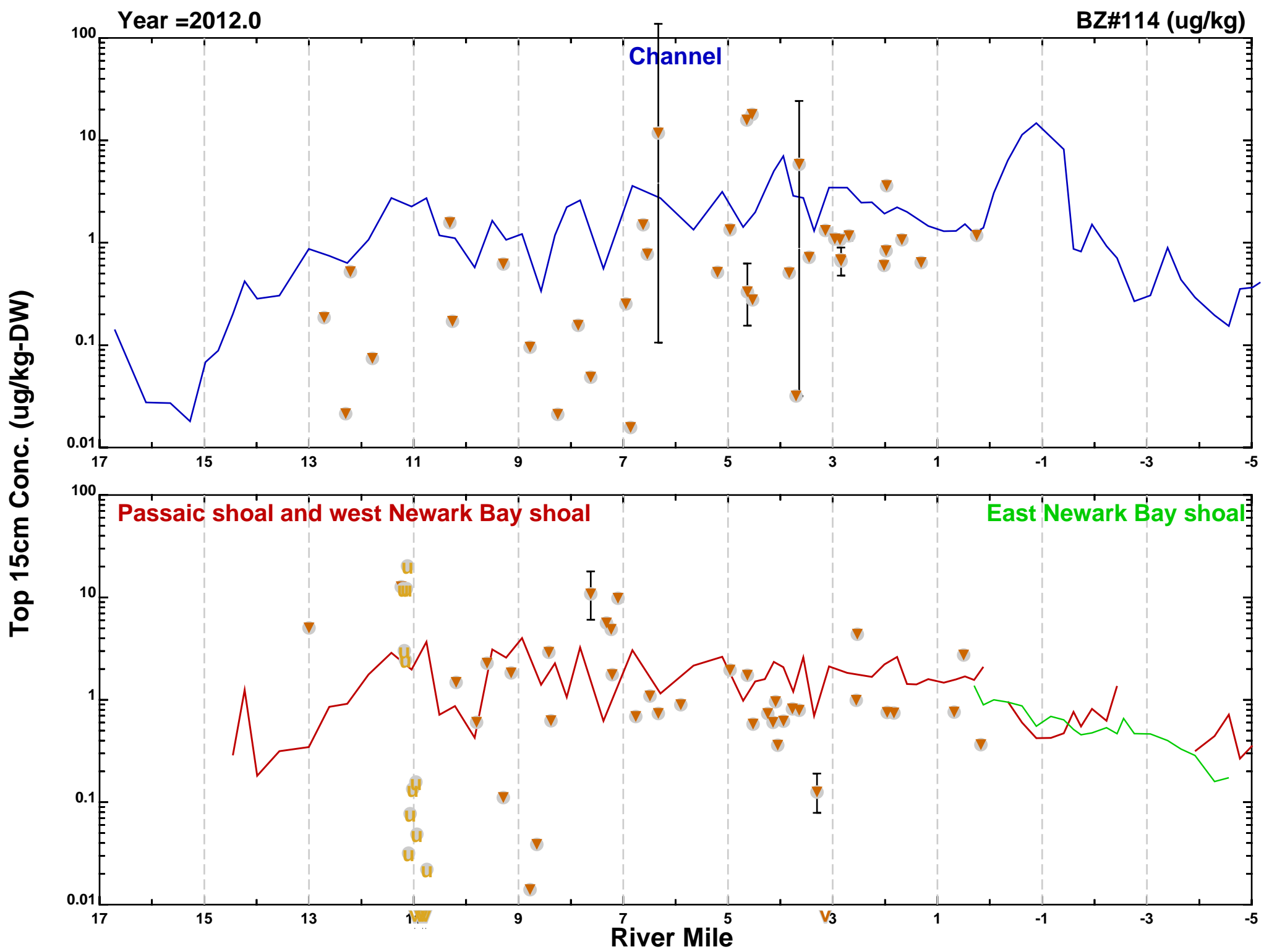
East Newark Bay shoal



River Mile





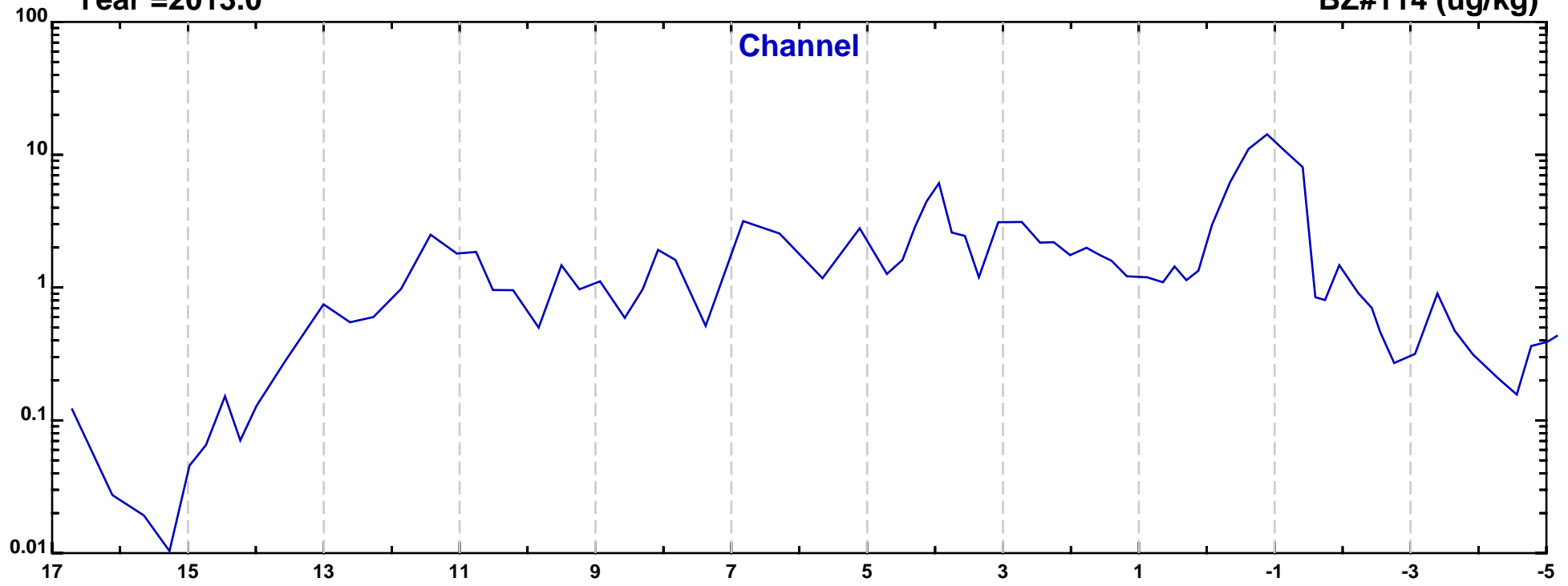


Year = 2013.0

BZ#114 (ug/kg)

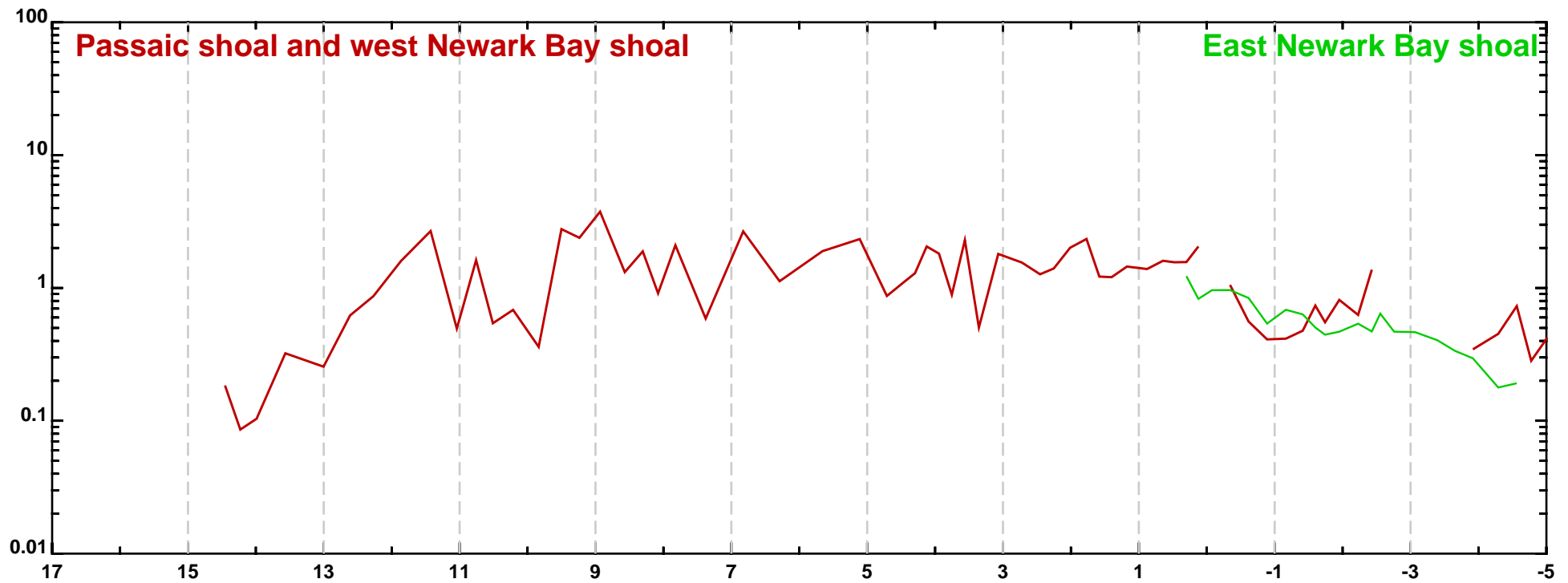
Top 15cm Conc. (ug/kg-DW)

Channel

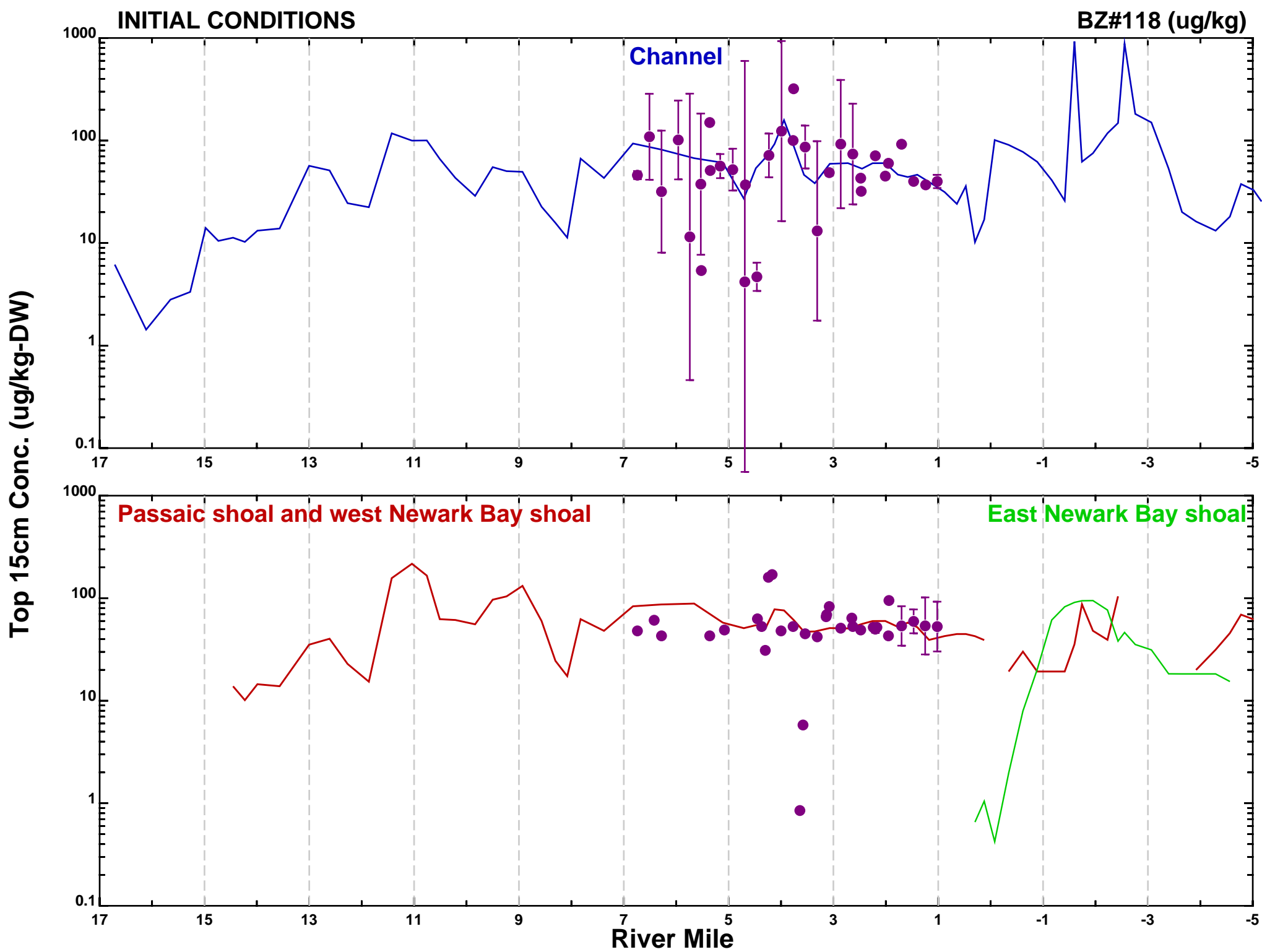


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

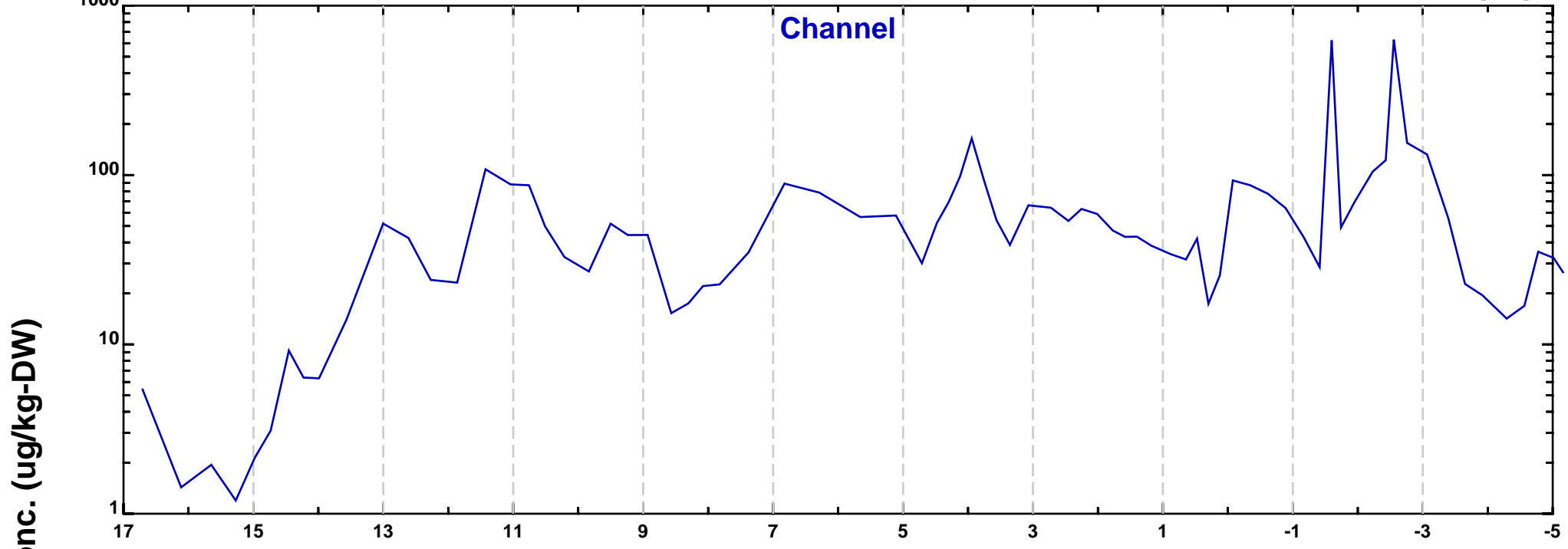


River Mile



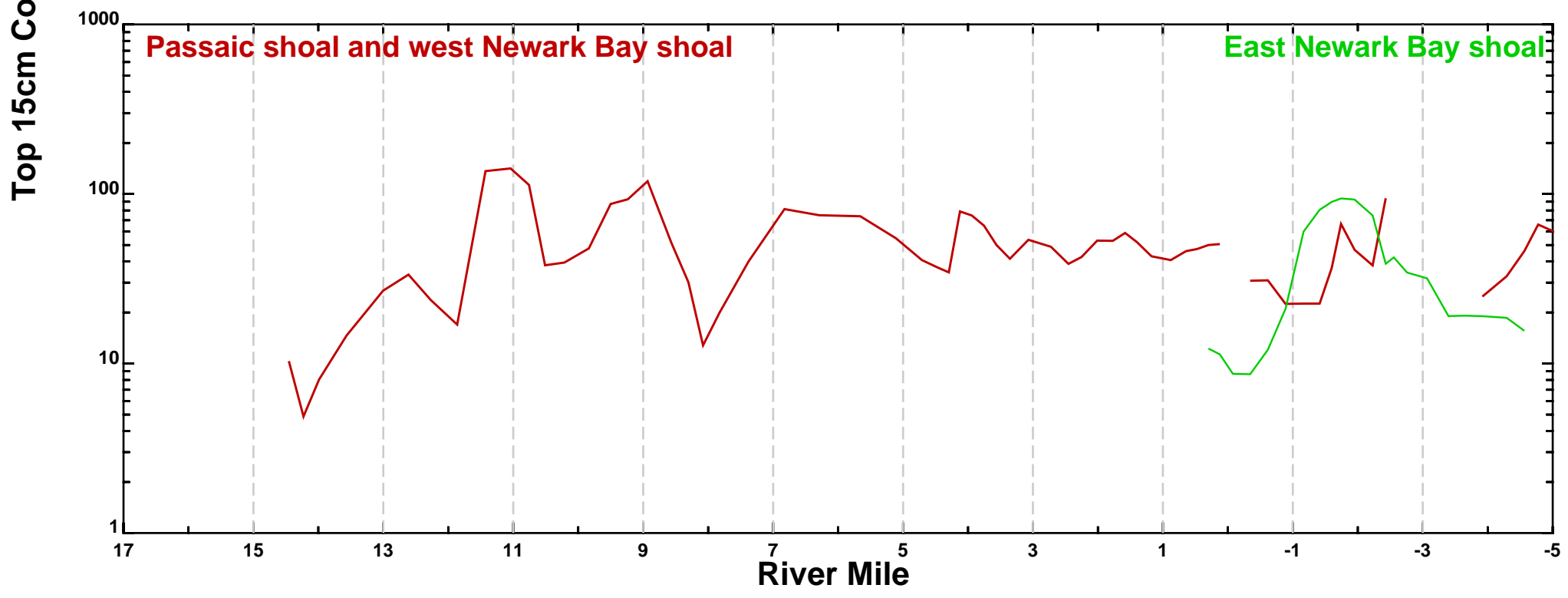
Year = 1996.0

BZ#118 (ug/kg)



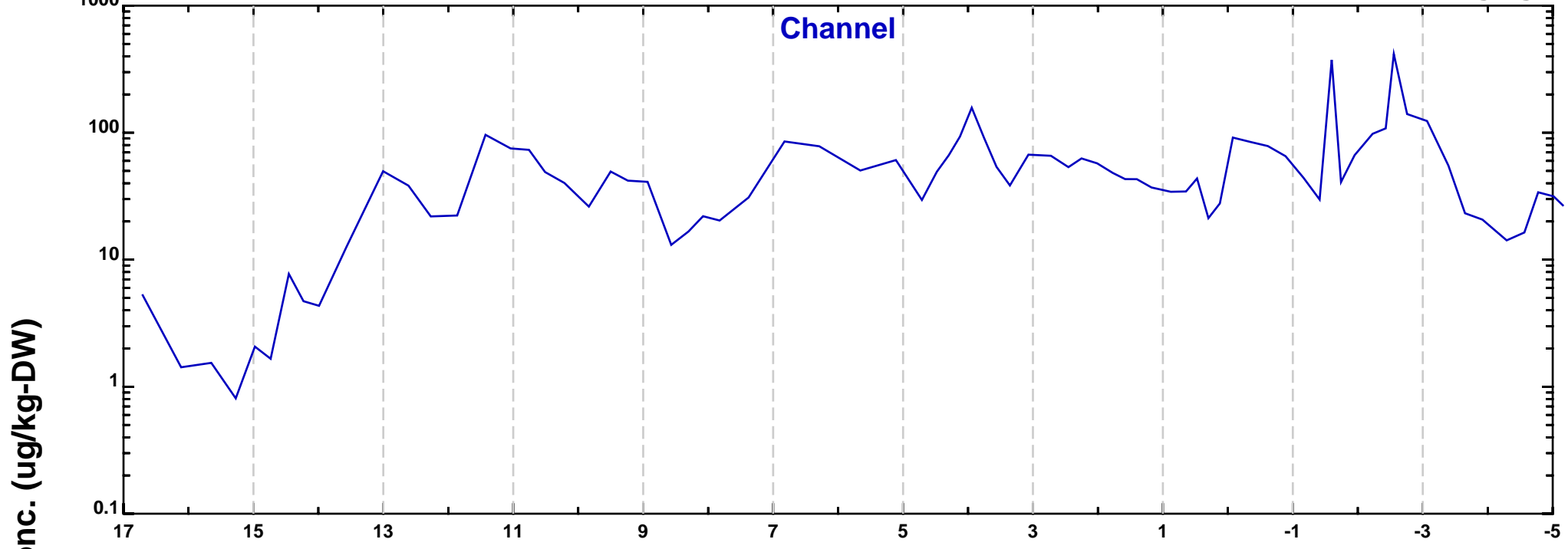
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



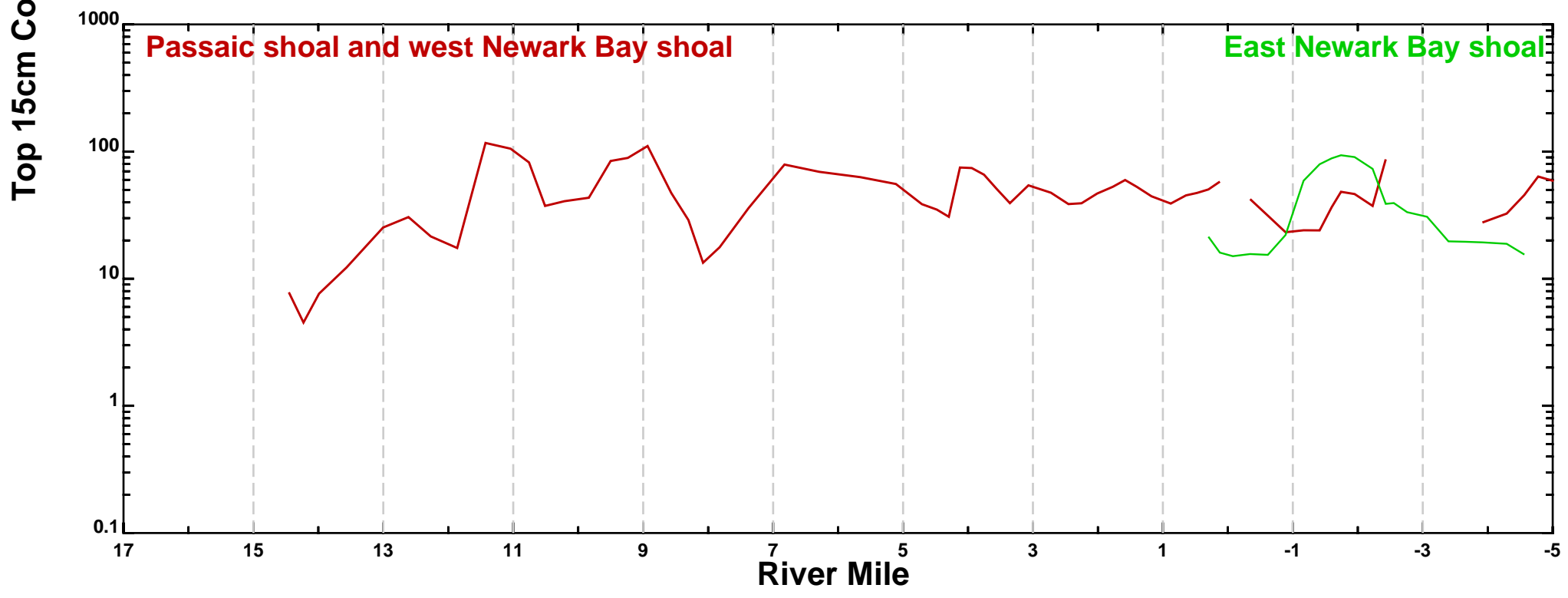
Year = 1997.0

BZ#118 (ug/kg)



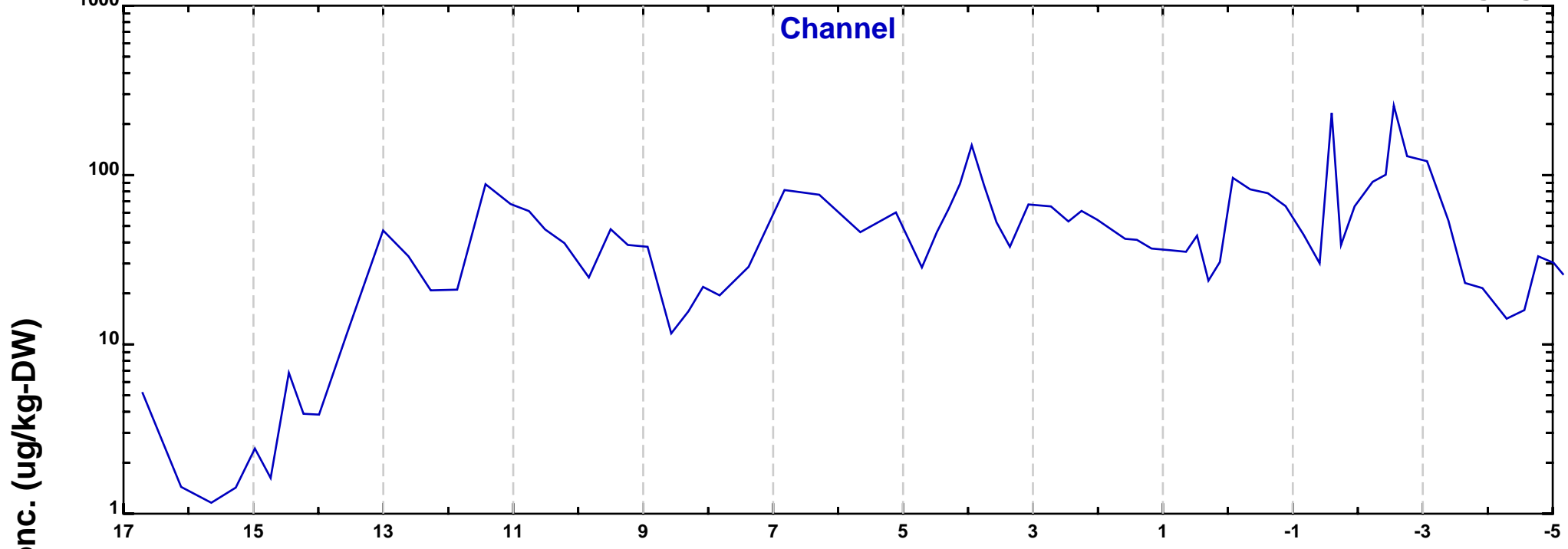
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



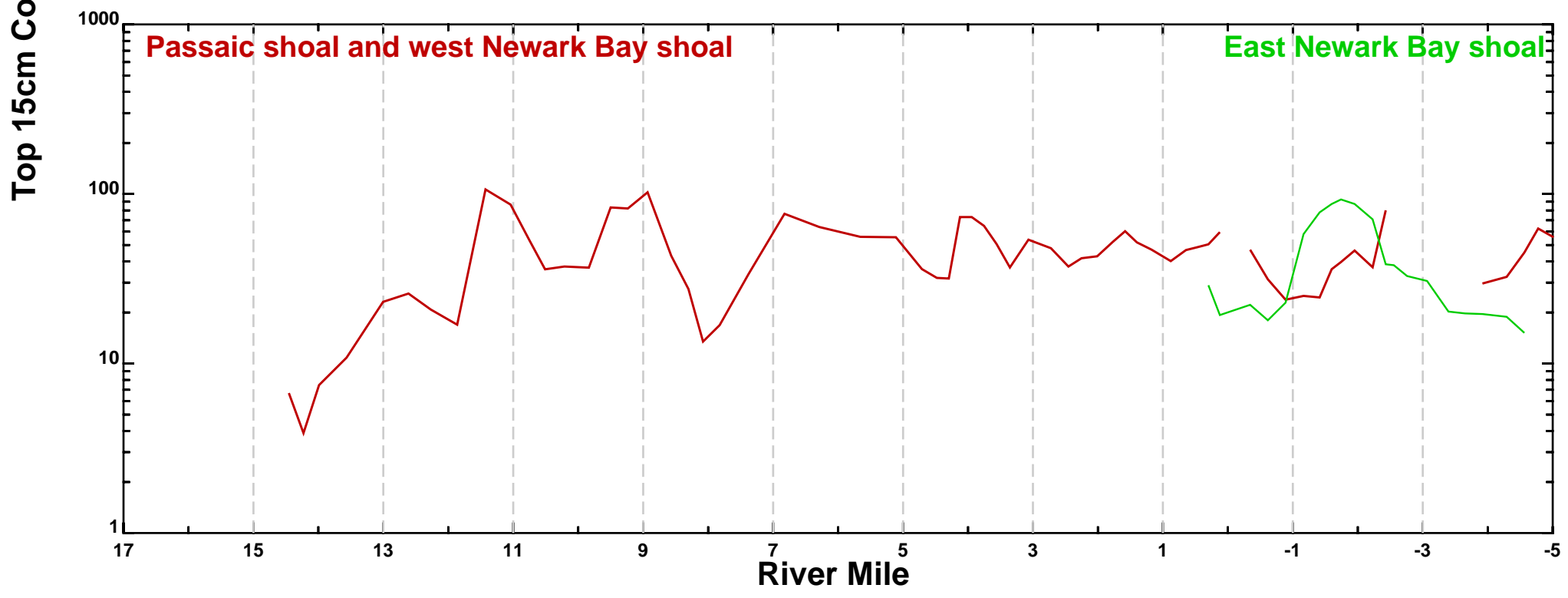
Year = 1998.0

BZ#118 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



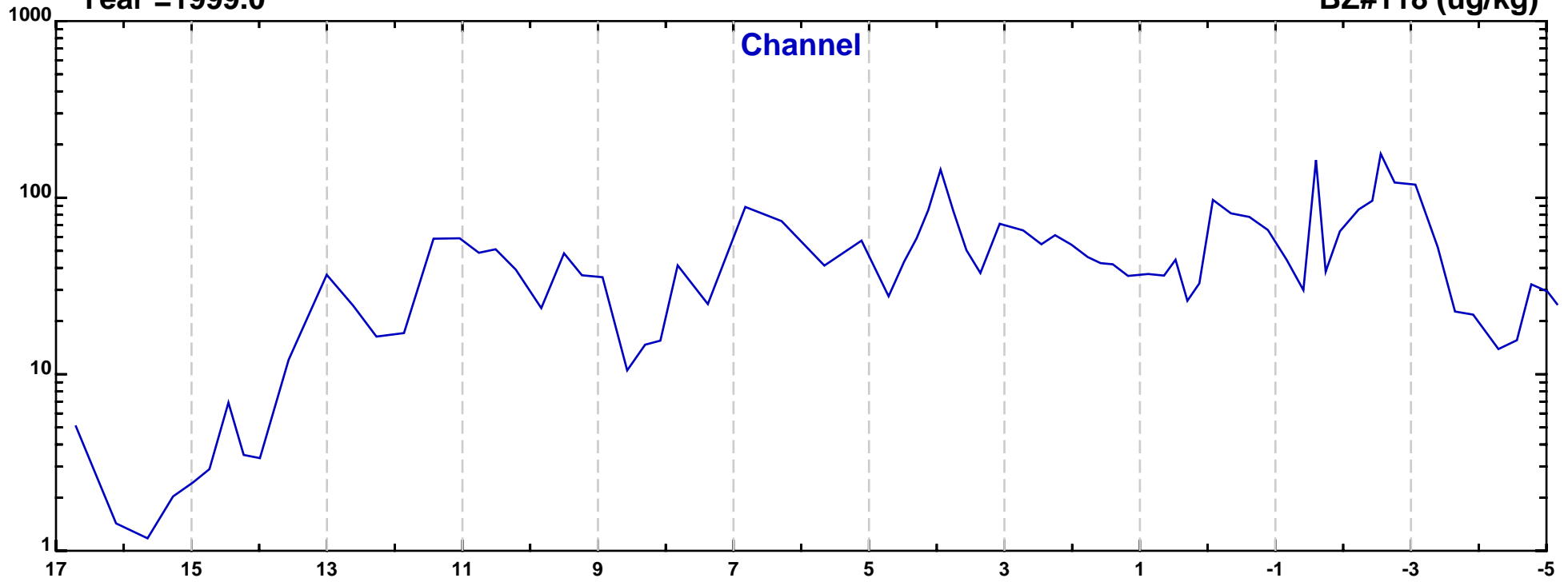
River Mile

Year = 1999.0

BZ#118 (ug/kg)

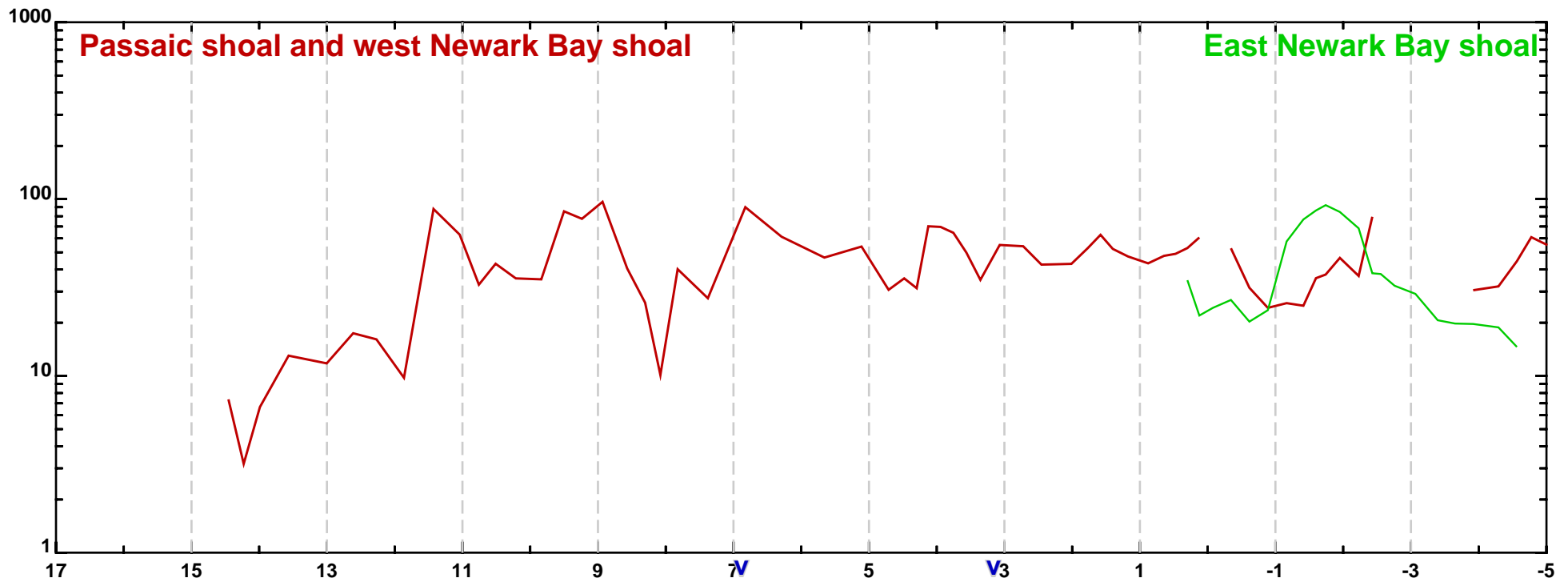
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

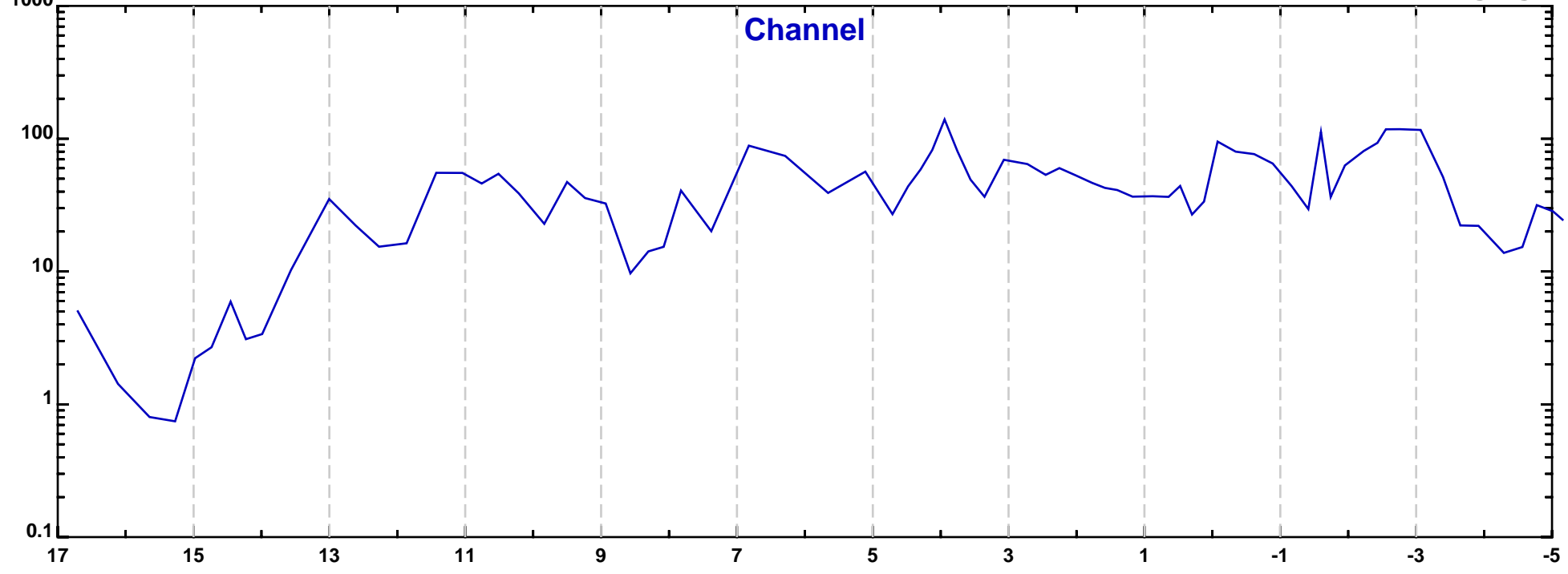


Year =2000.0

BZ#118 (ug/kg)

Top 15cm Conc. (ug/kg-DW)

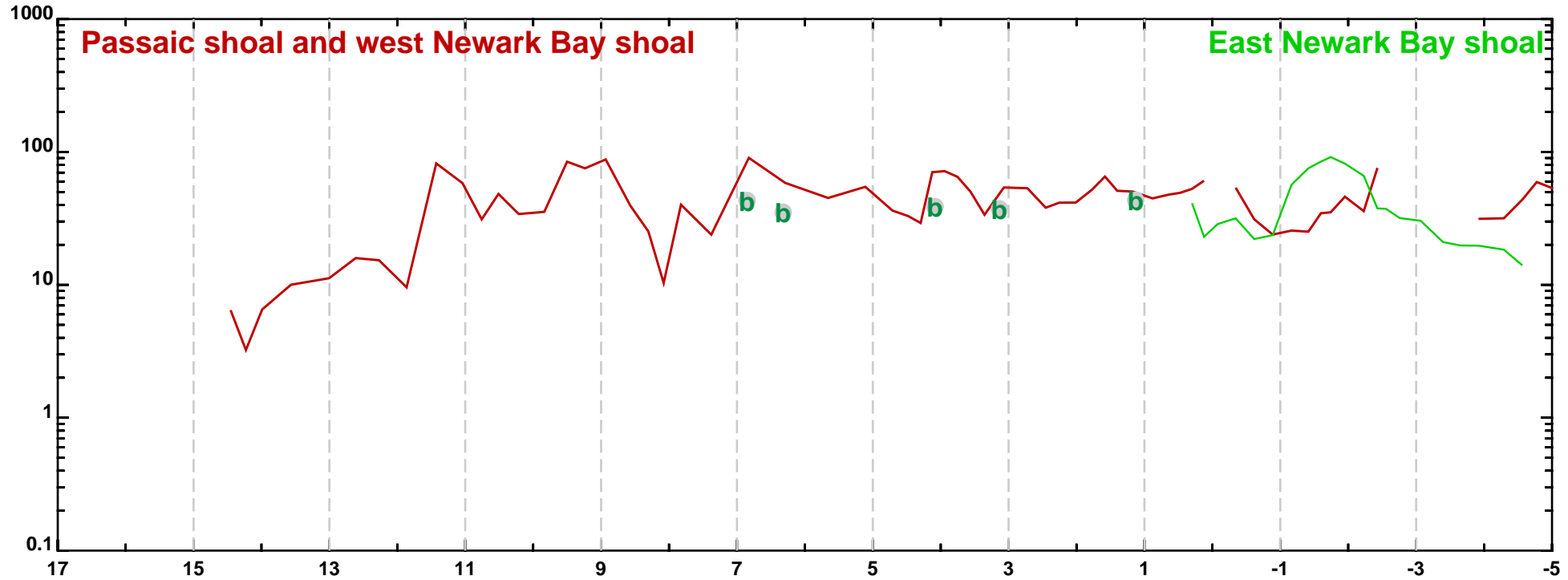
Channel



Passaic shoal and west Newark Bay shoal

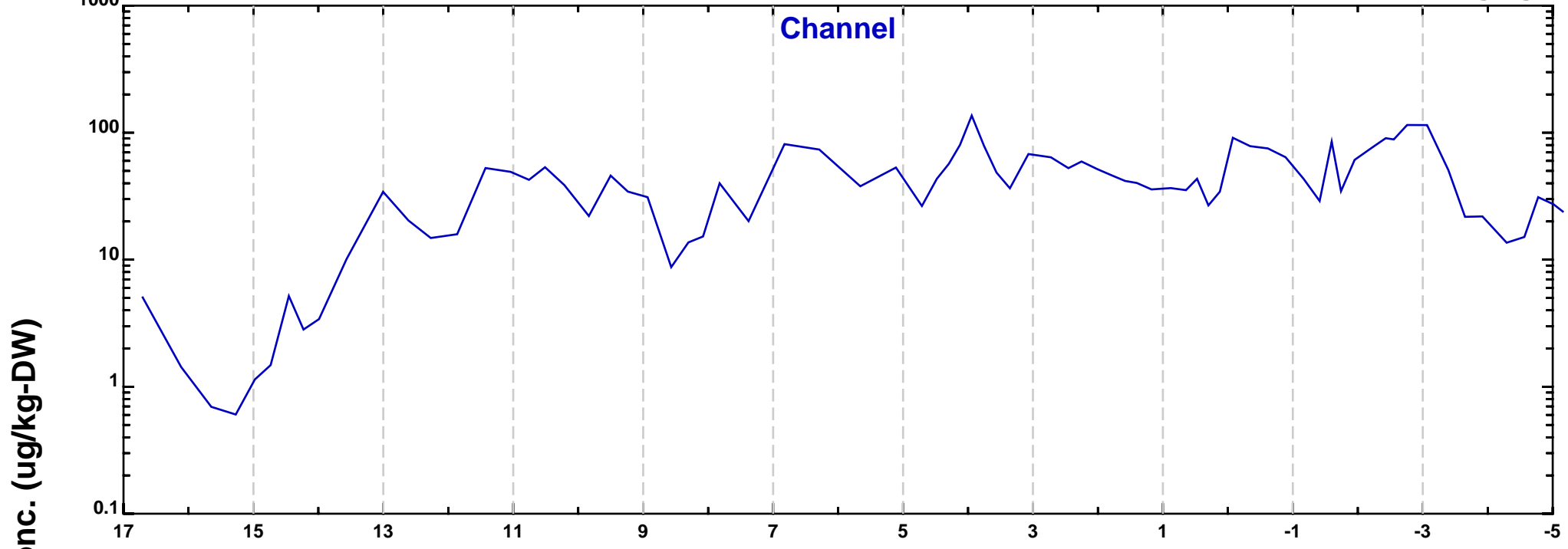
East Newark Bay shoal

River Mile



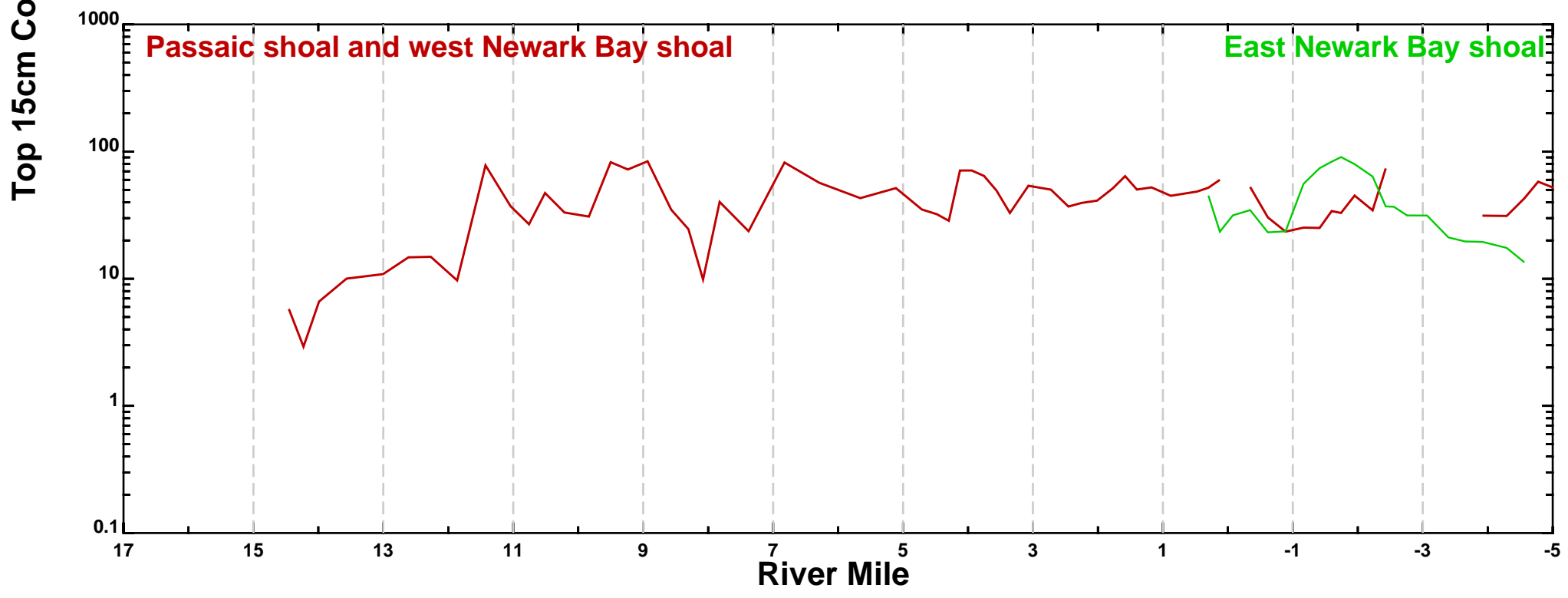
Year =2001.0

BZ#118 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2002.0

BZ#118 (ug/kg)

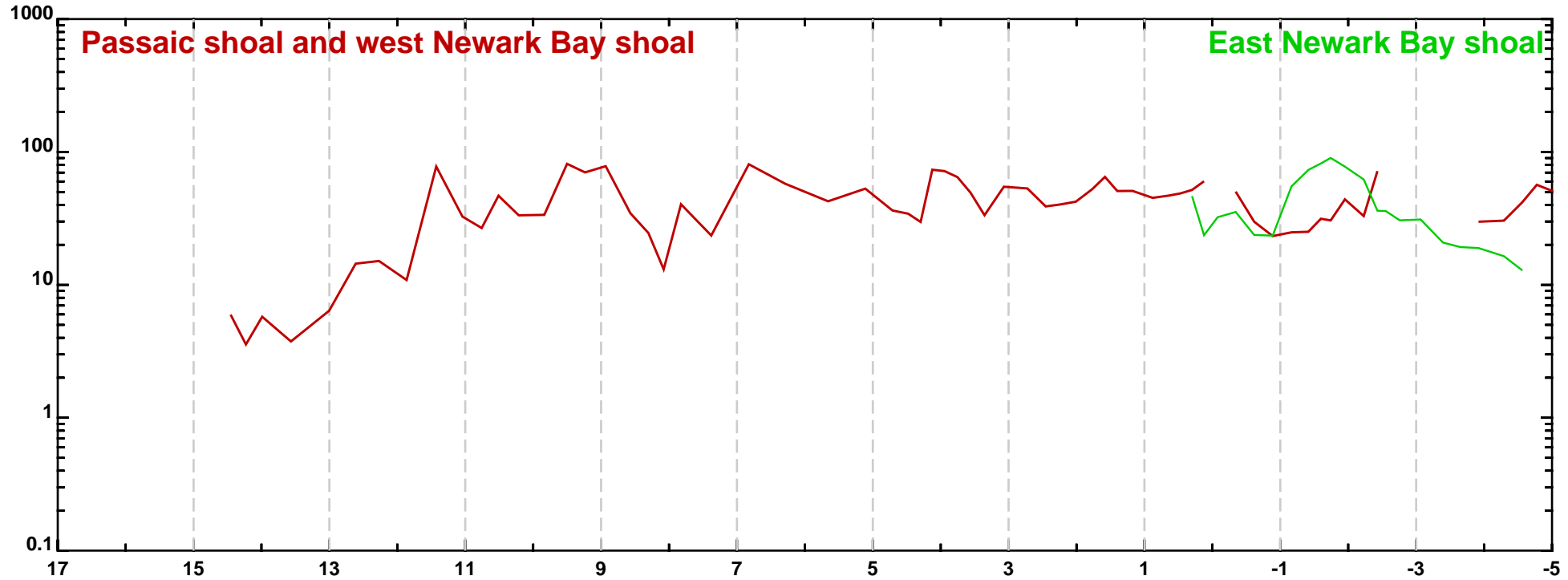
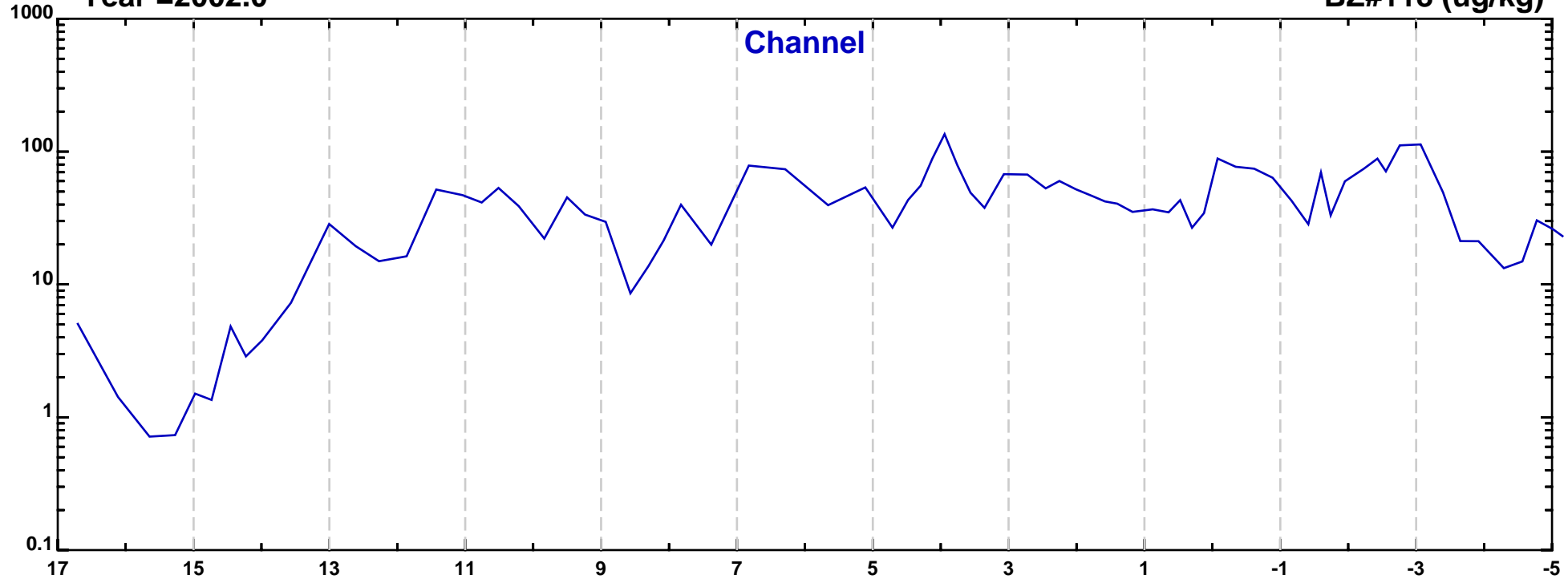
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

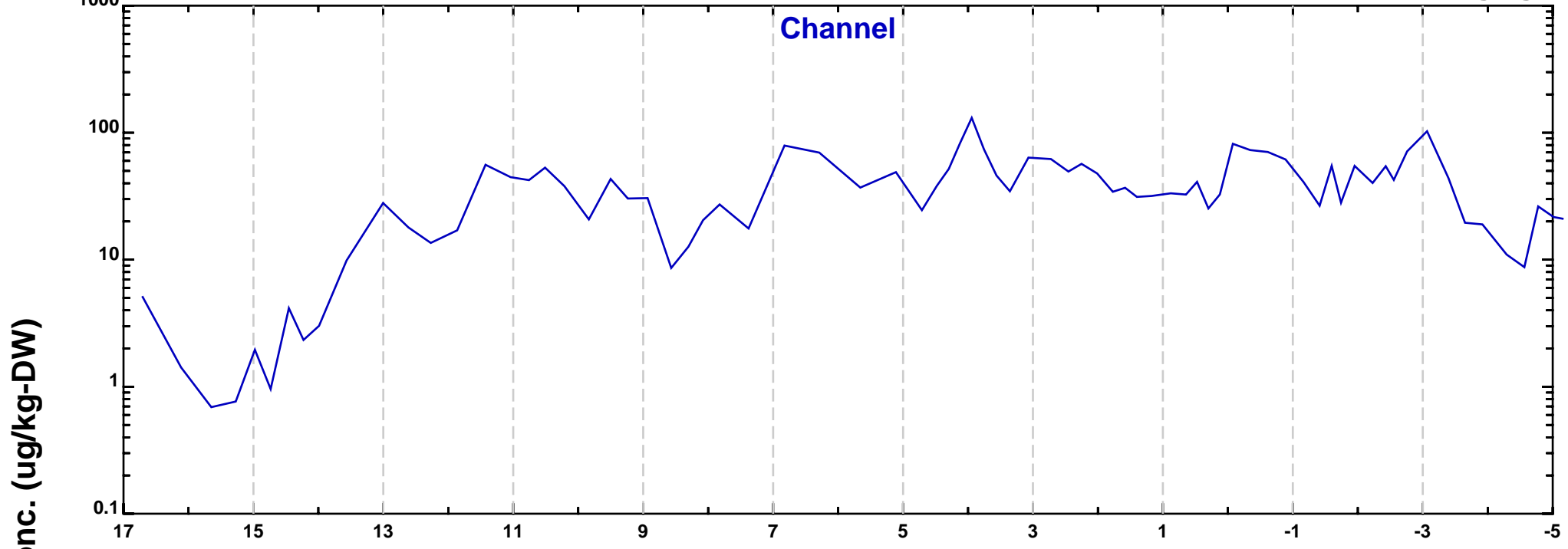
East Newark Bay shoal

River Mile



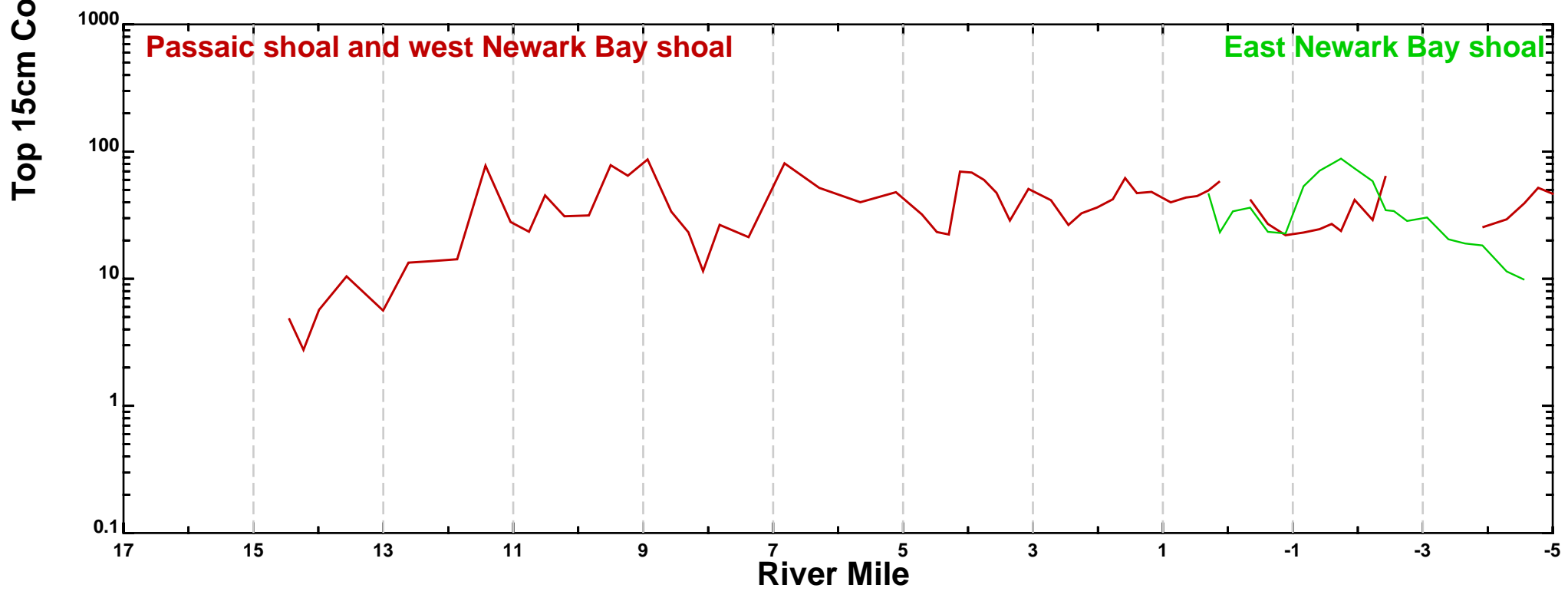
Year =2003.0

BZ#118 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

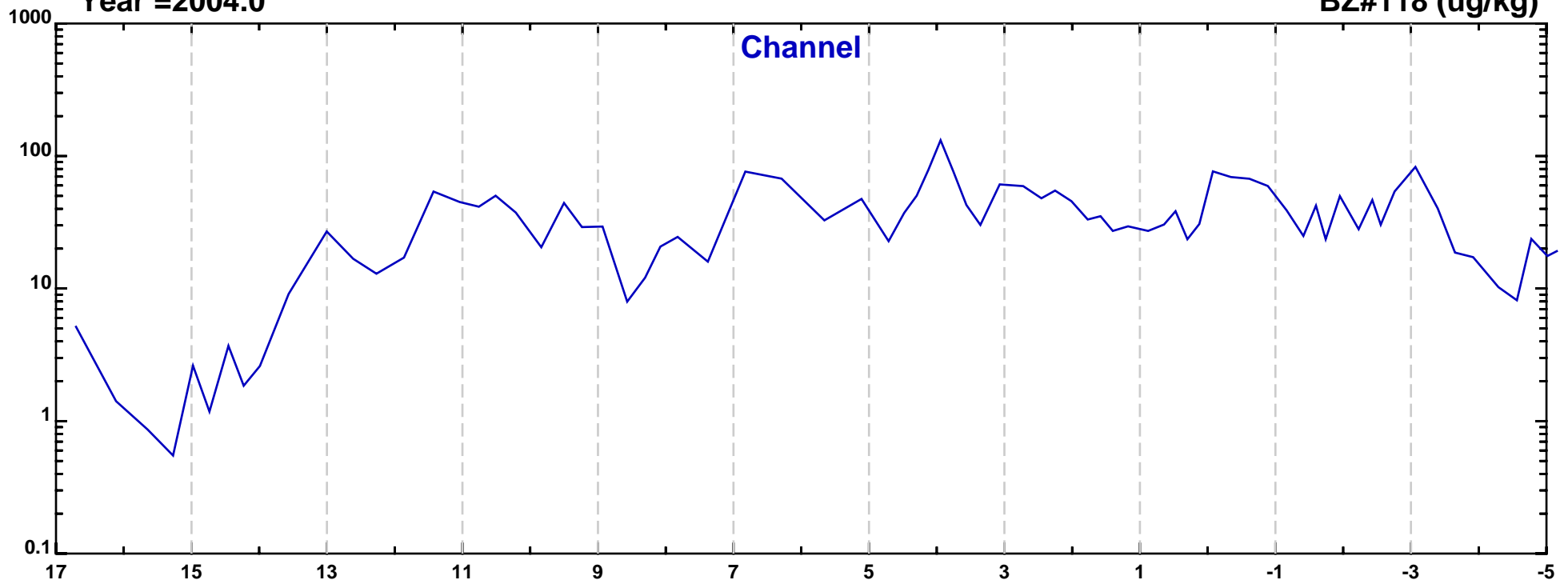


Year =2004.0

BZ#118 (ug/kg)

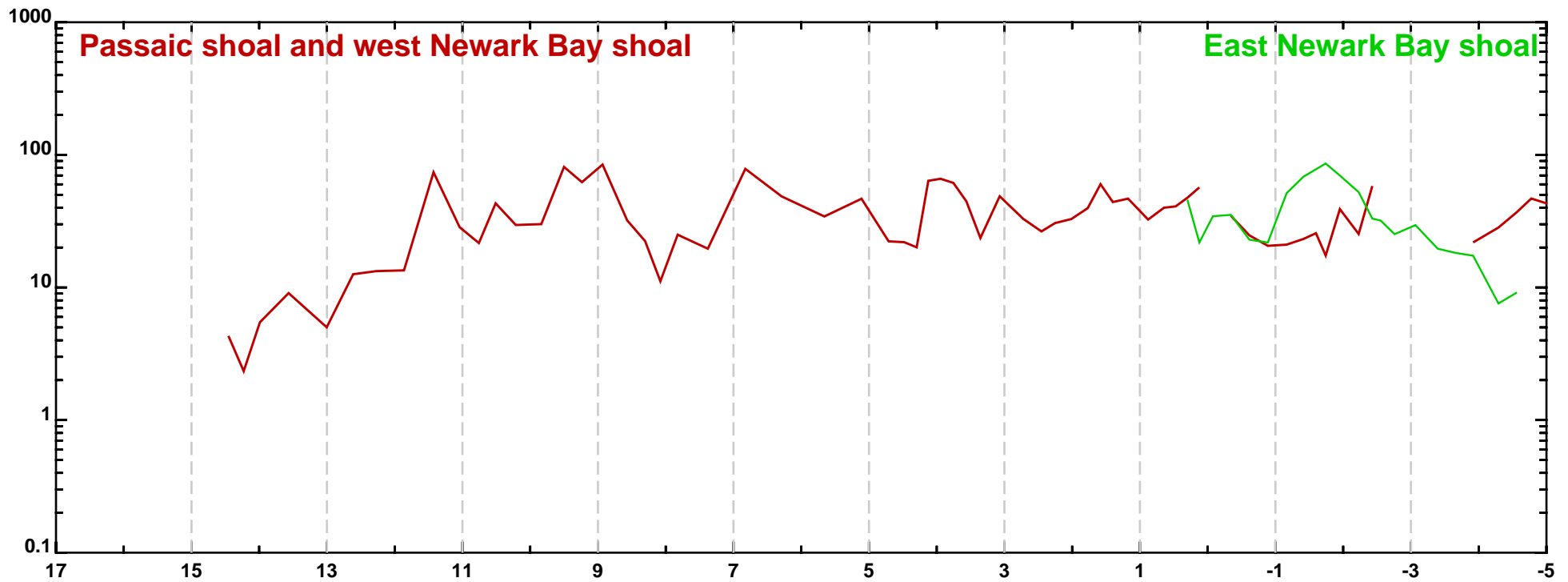
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

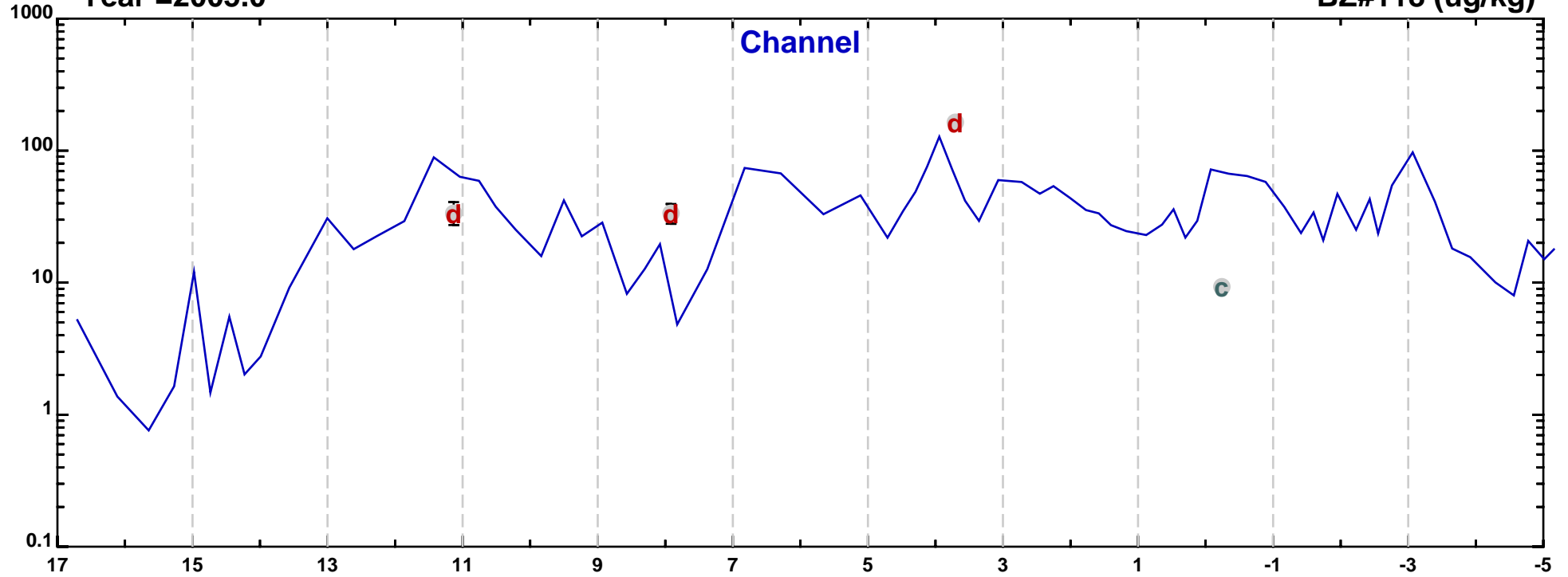


River Mile

Year =2005.0

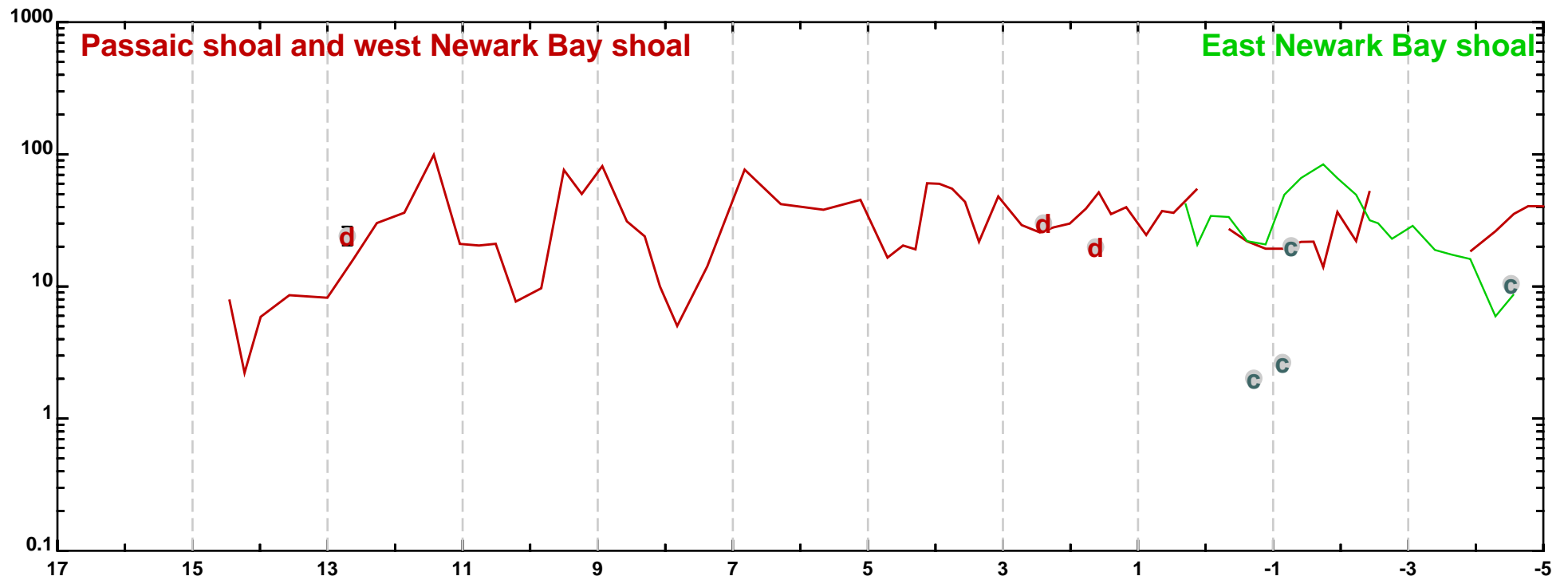
BZ#118 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2006.0

BZ#118 (ug/kg)

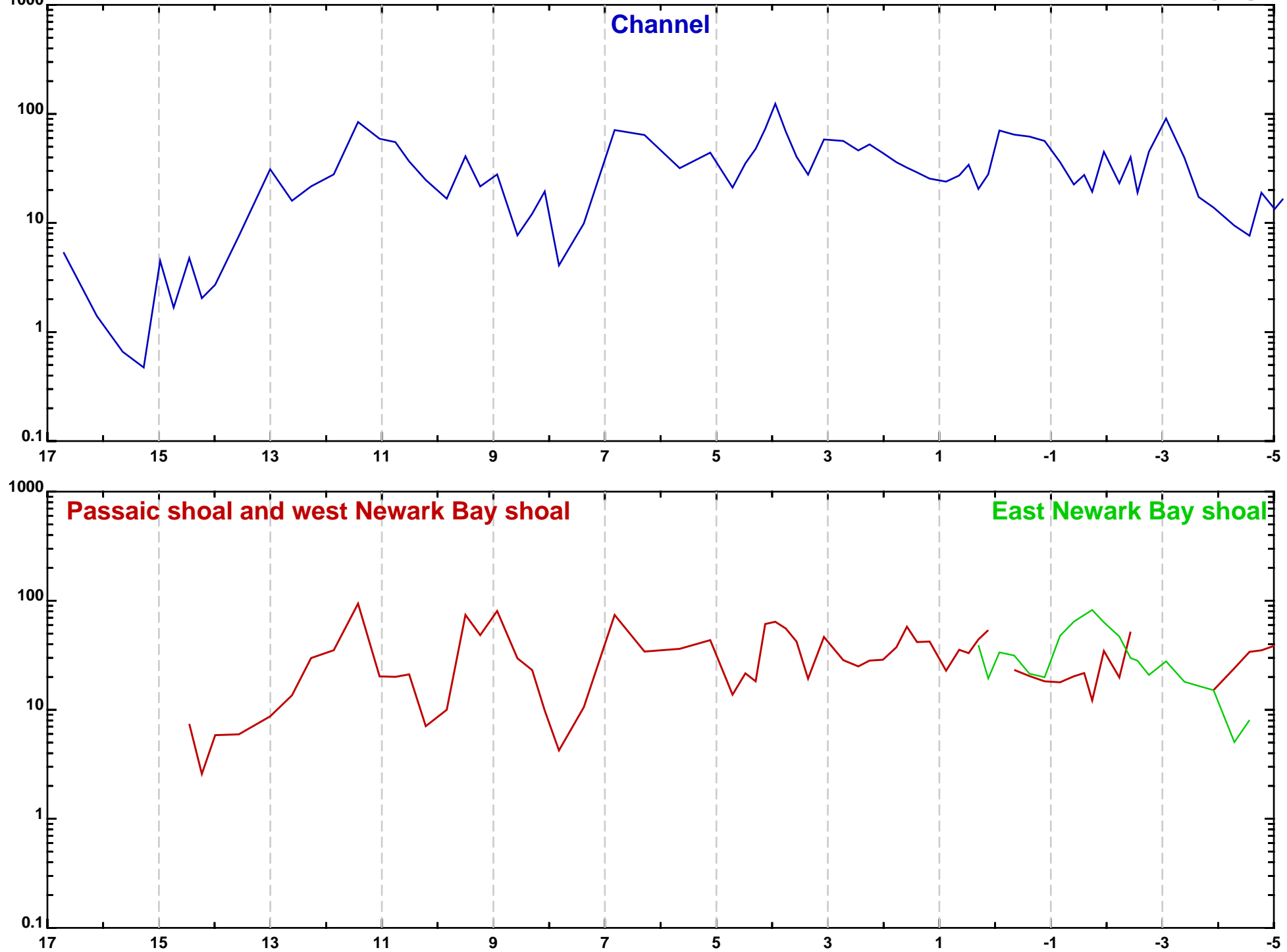
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

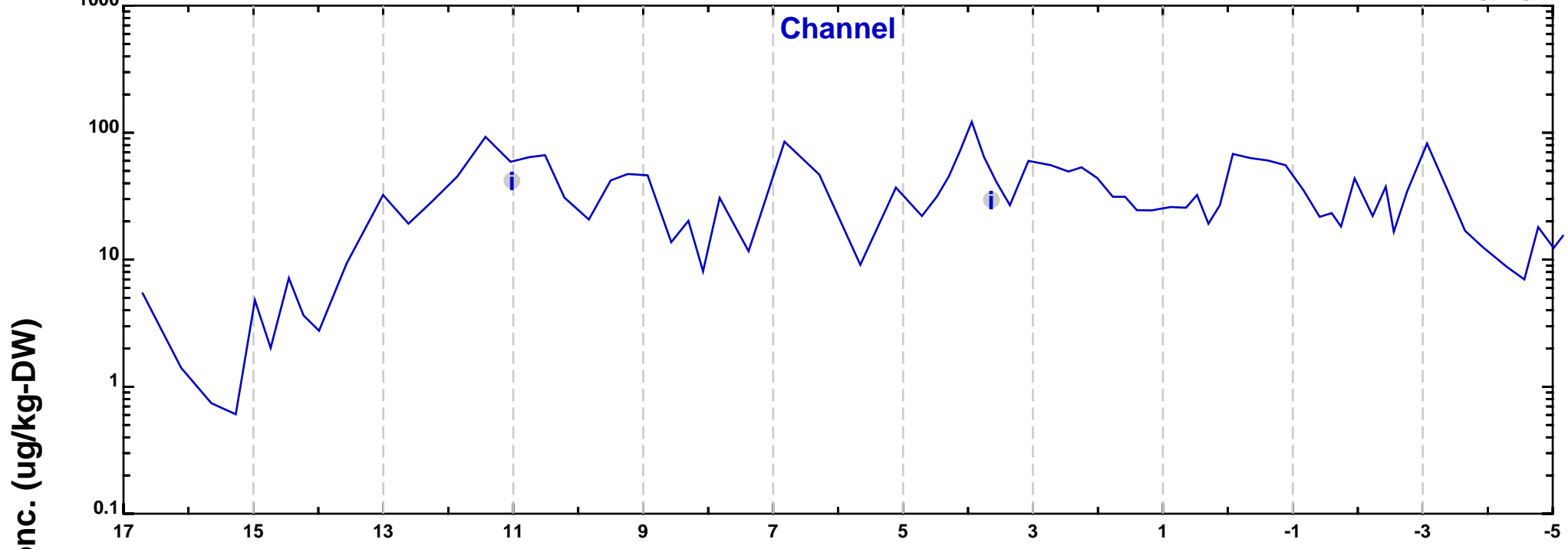
East Newark Bay shoal

River Mile



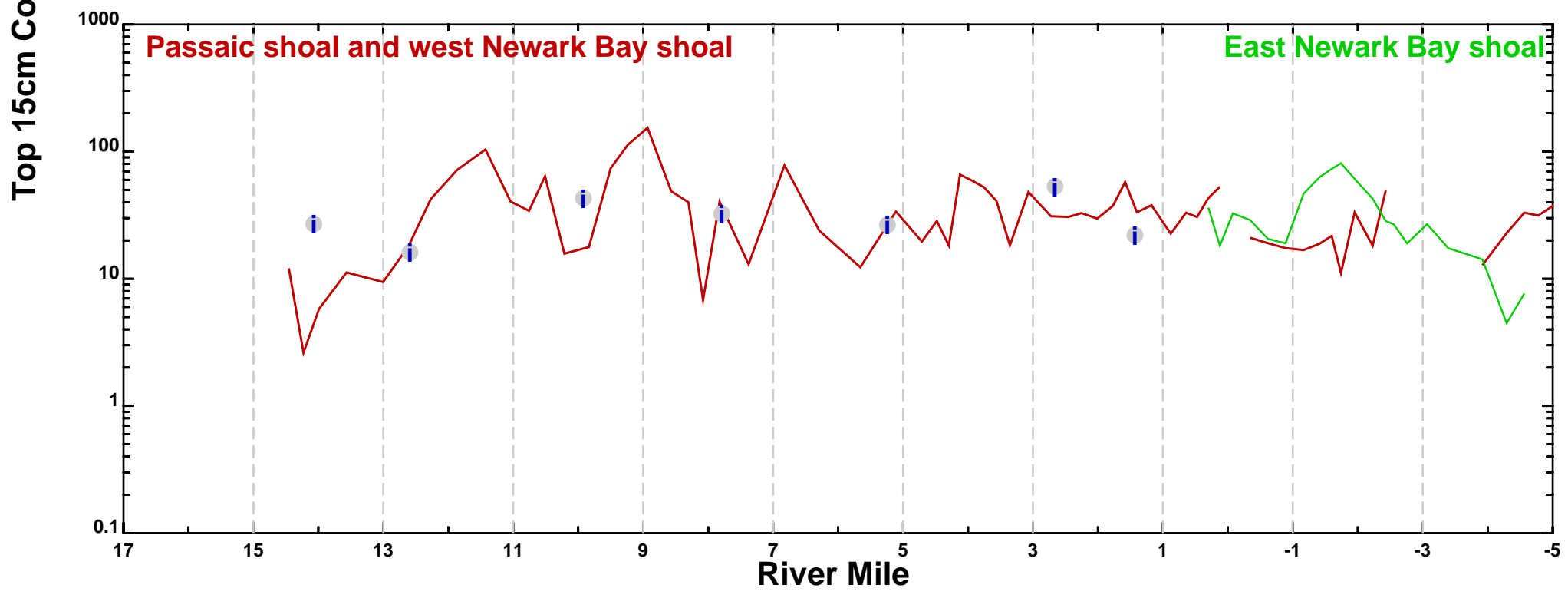
Year =2007.0

BZ#118 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



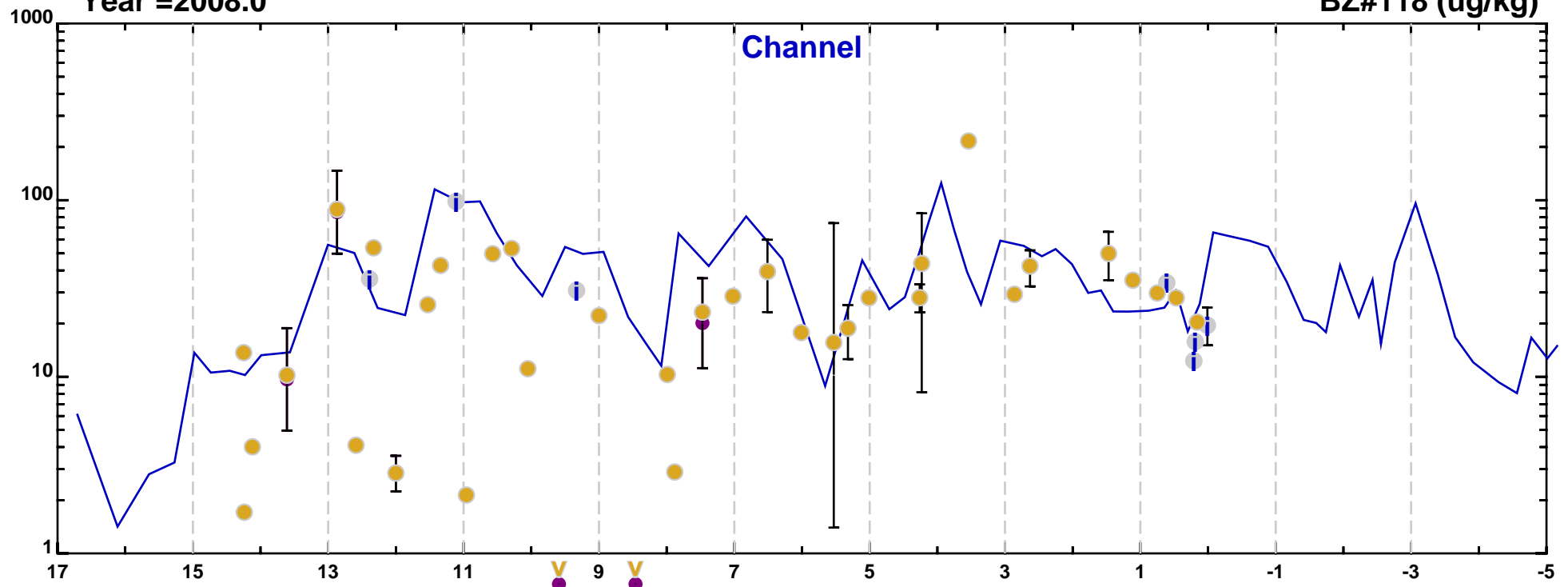


Year =2008.0

BZ#118 (ug/kg)

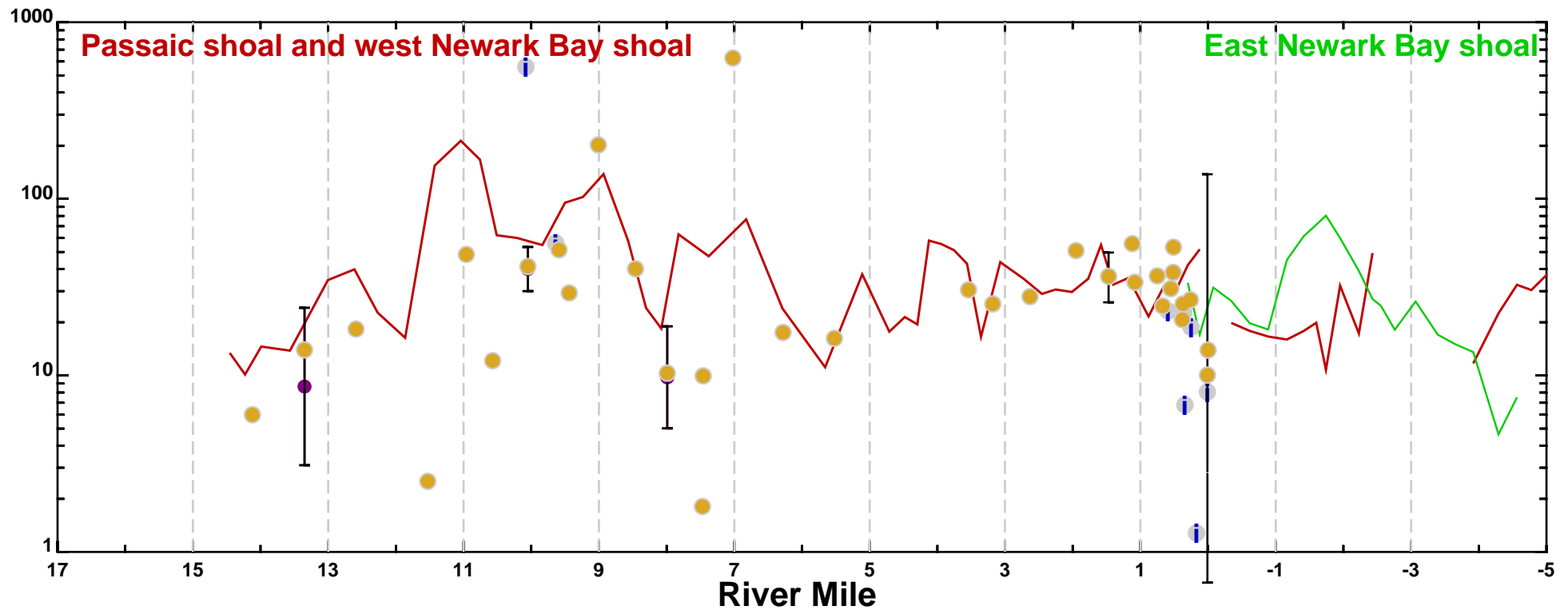
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

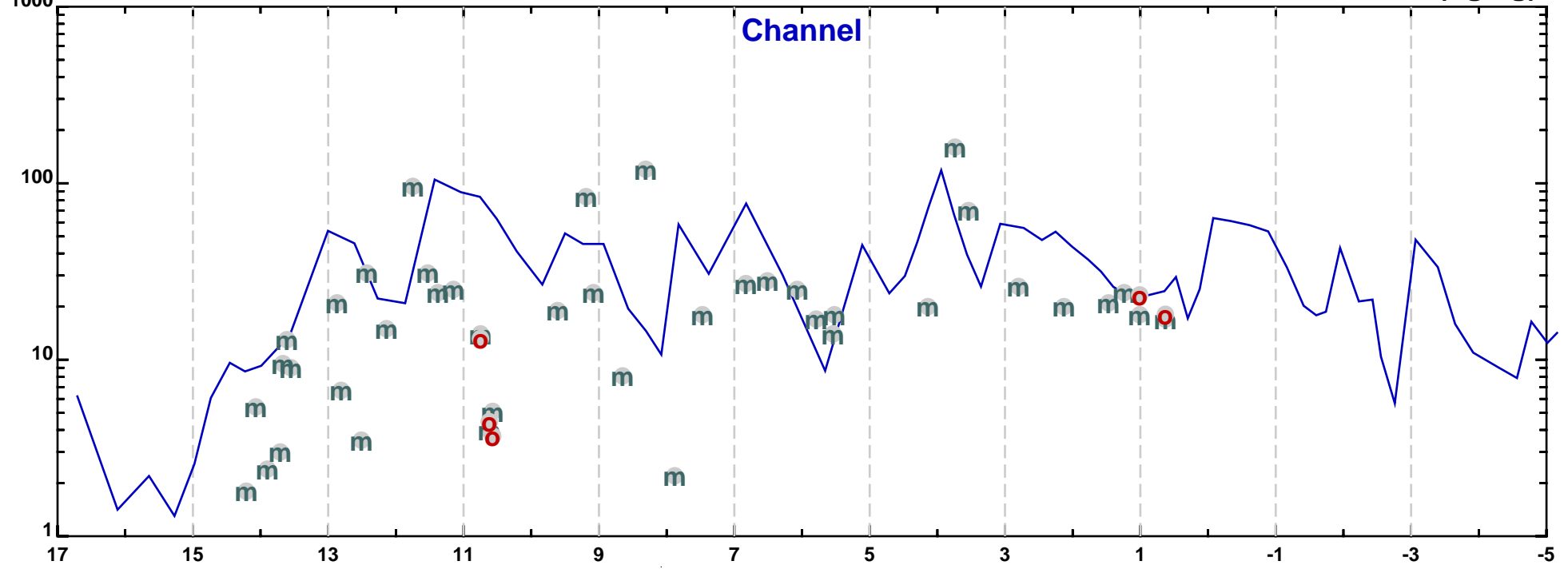


River Mile

Year =2009.0

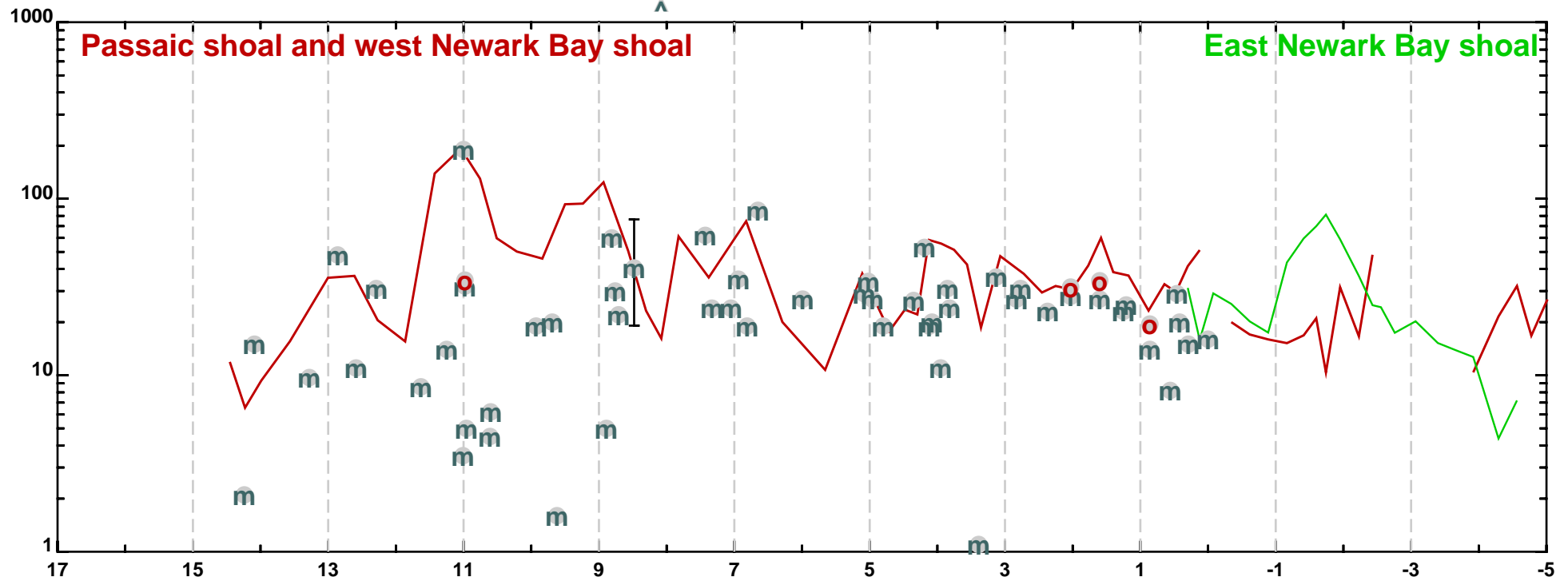
BZ#118 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



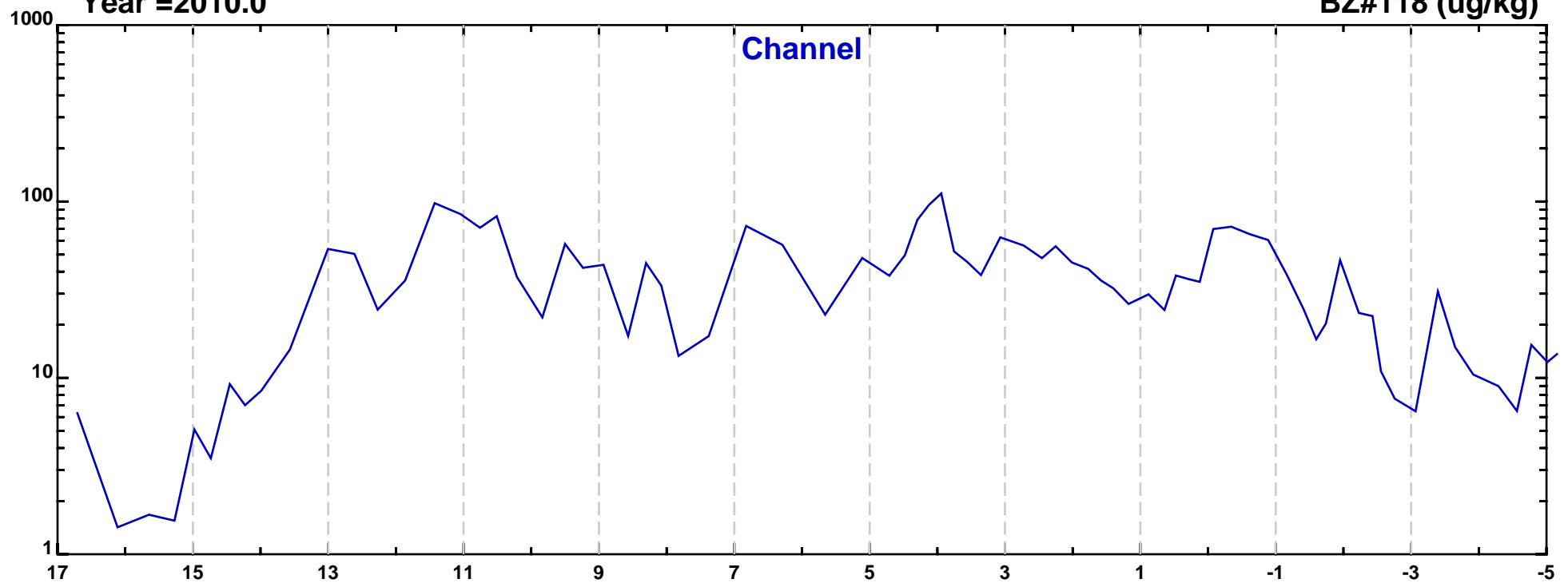
River Mile

Year =2010.0

BZ#118 (ug/kg)

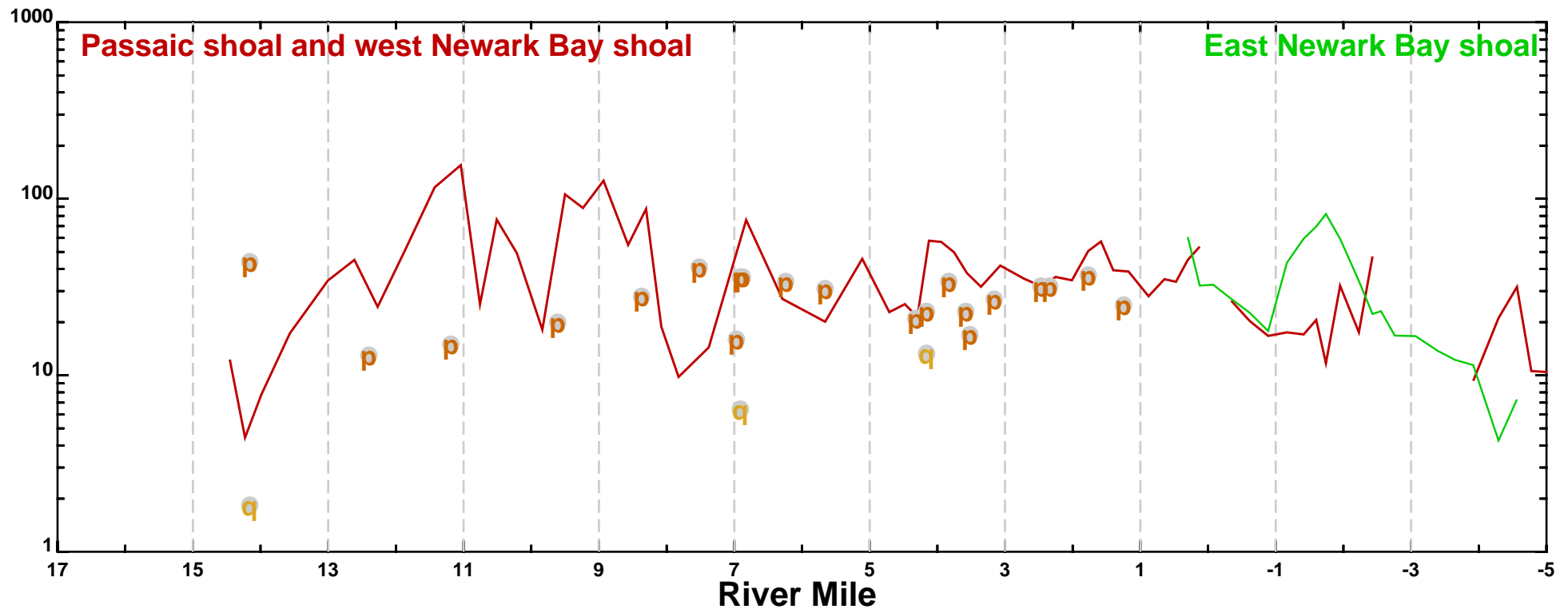
Top 15cm Conc. (ug/kg-DW)

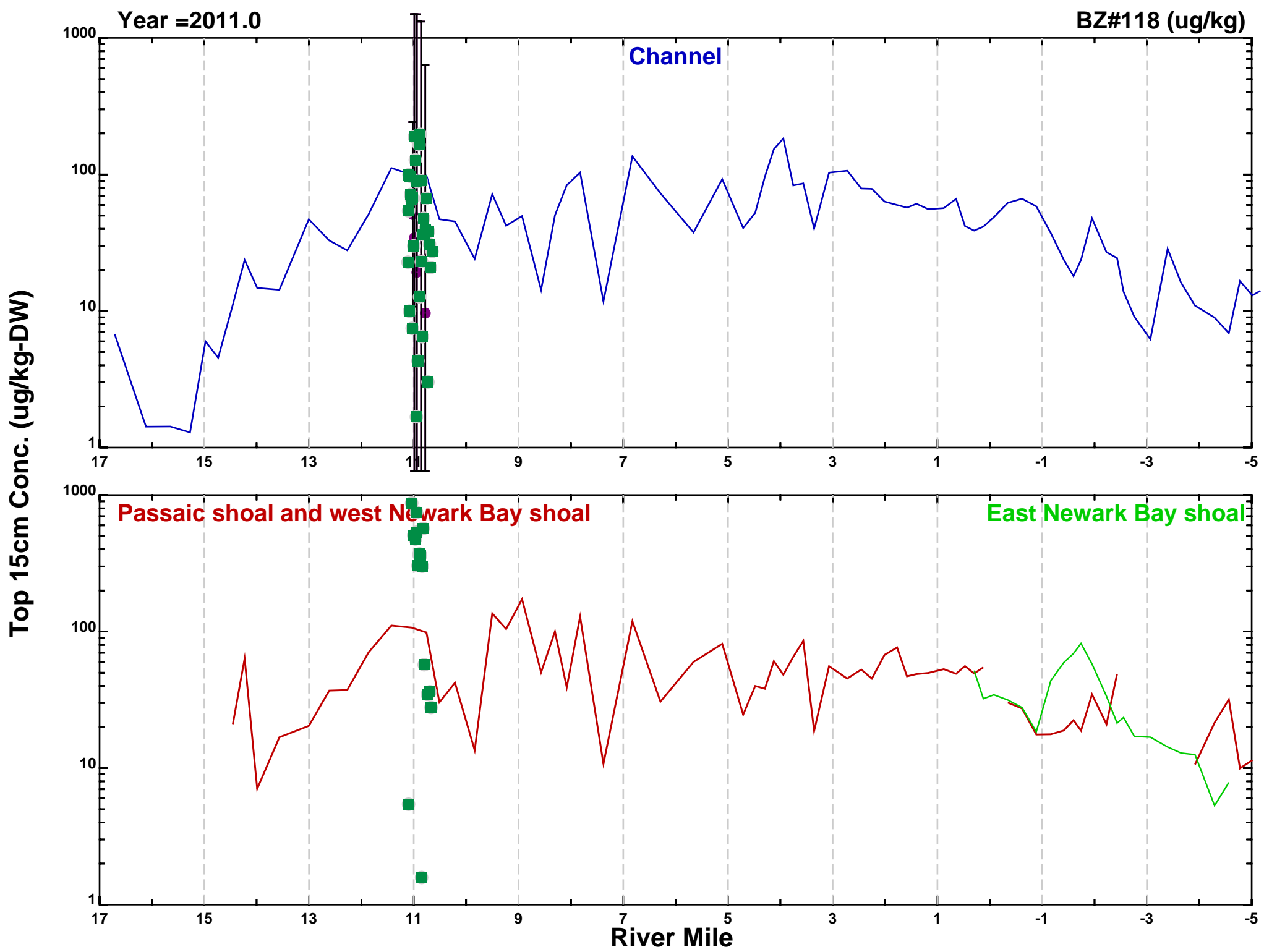
Channel

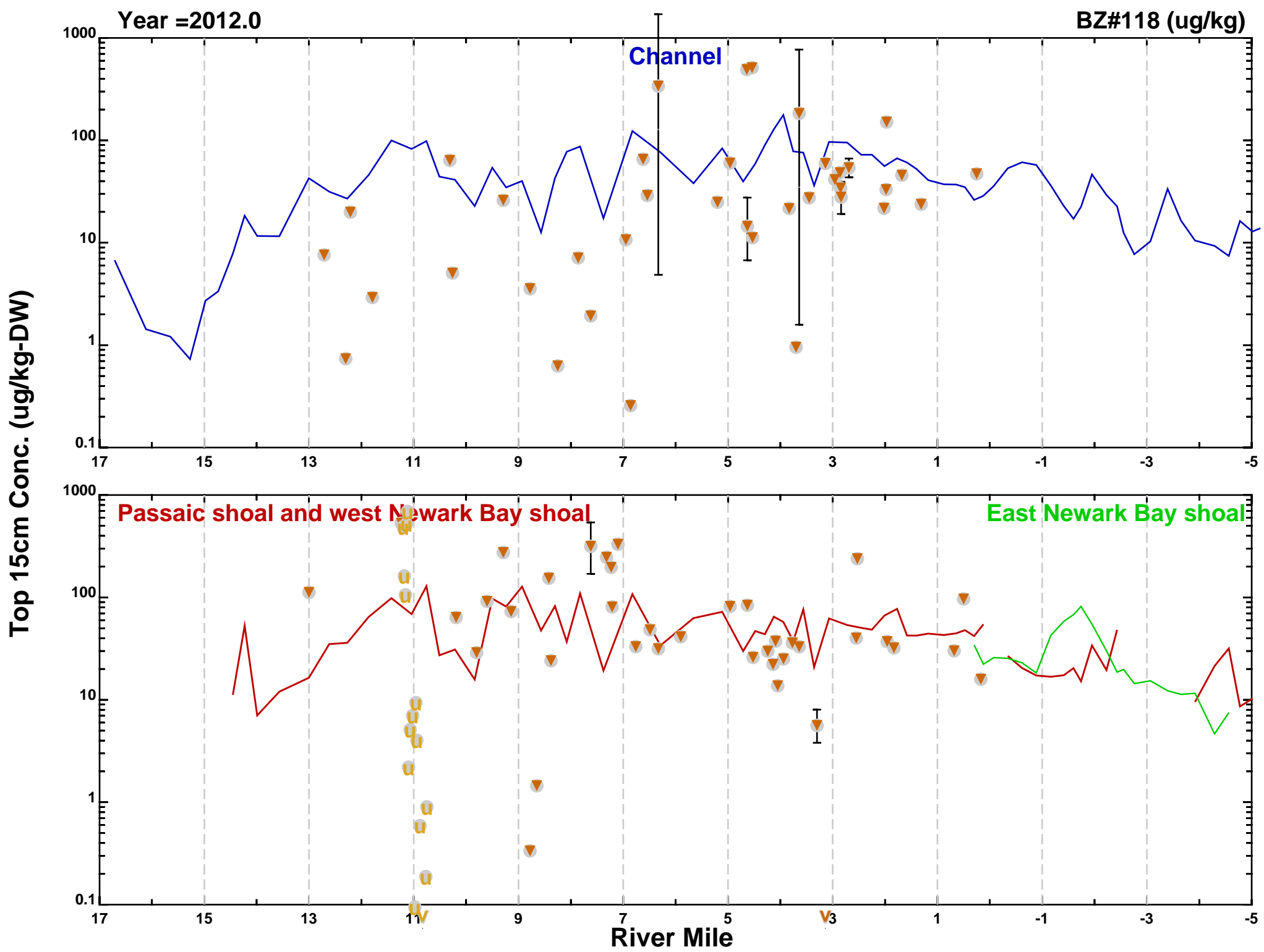


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

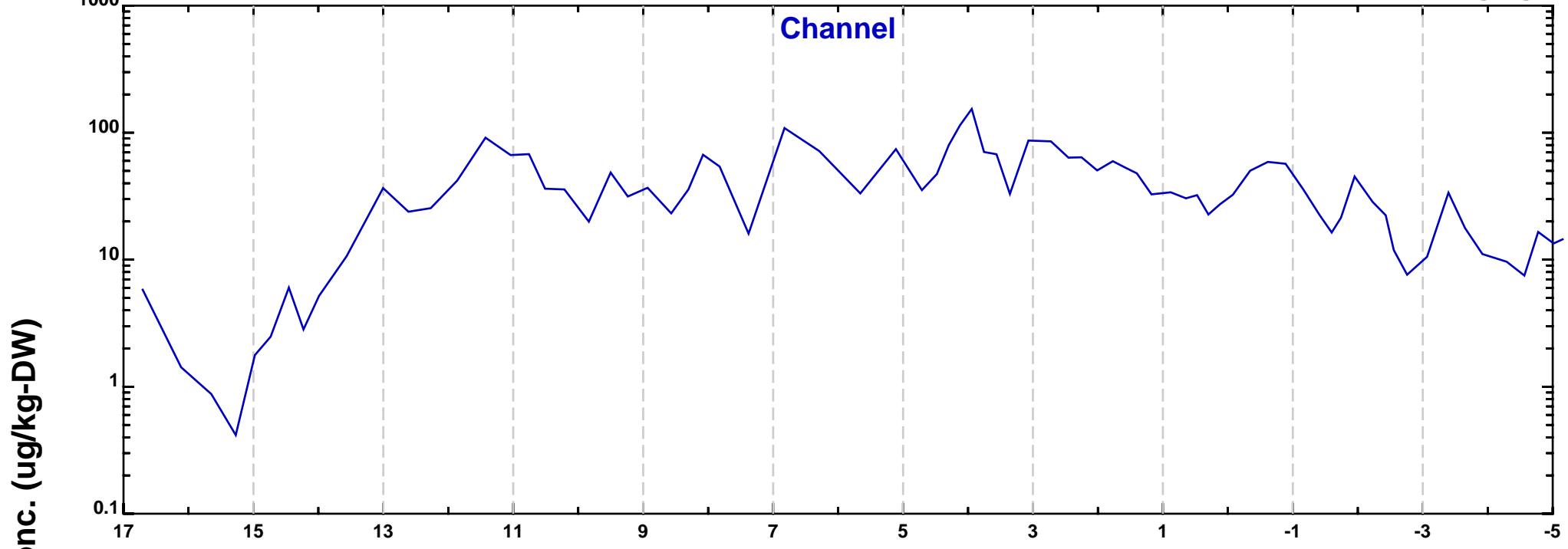






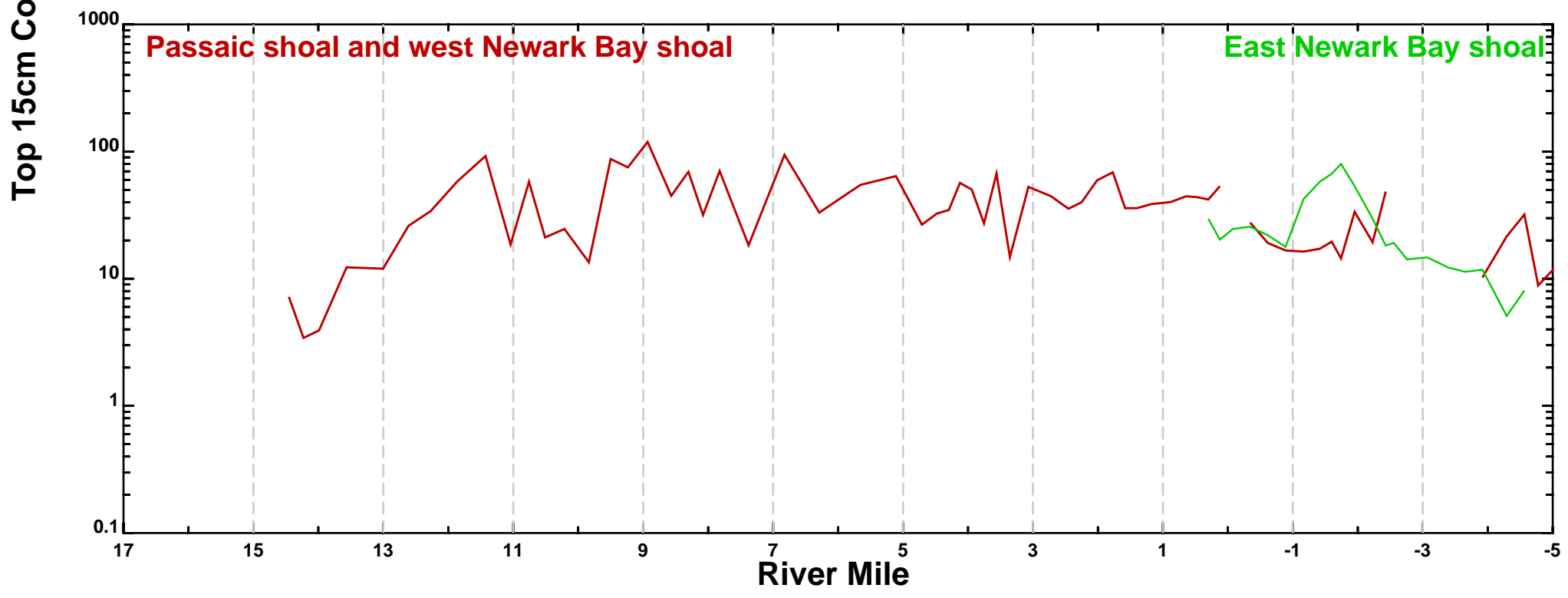
Year =2013.0

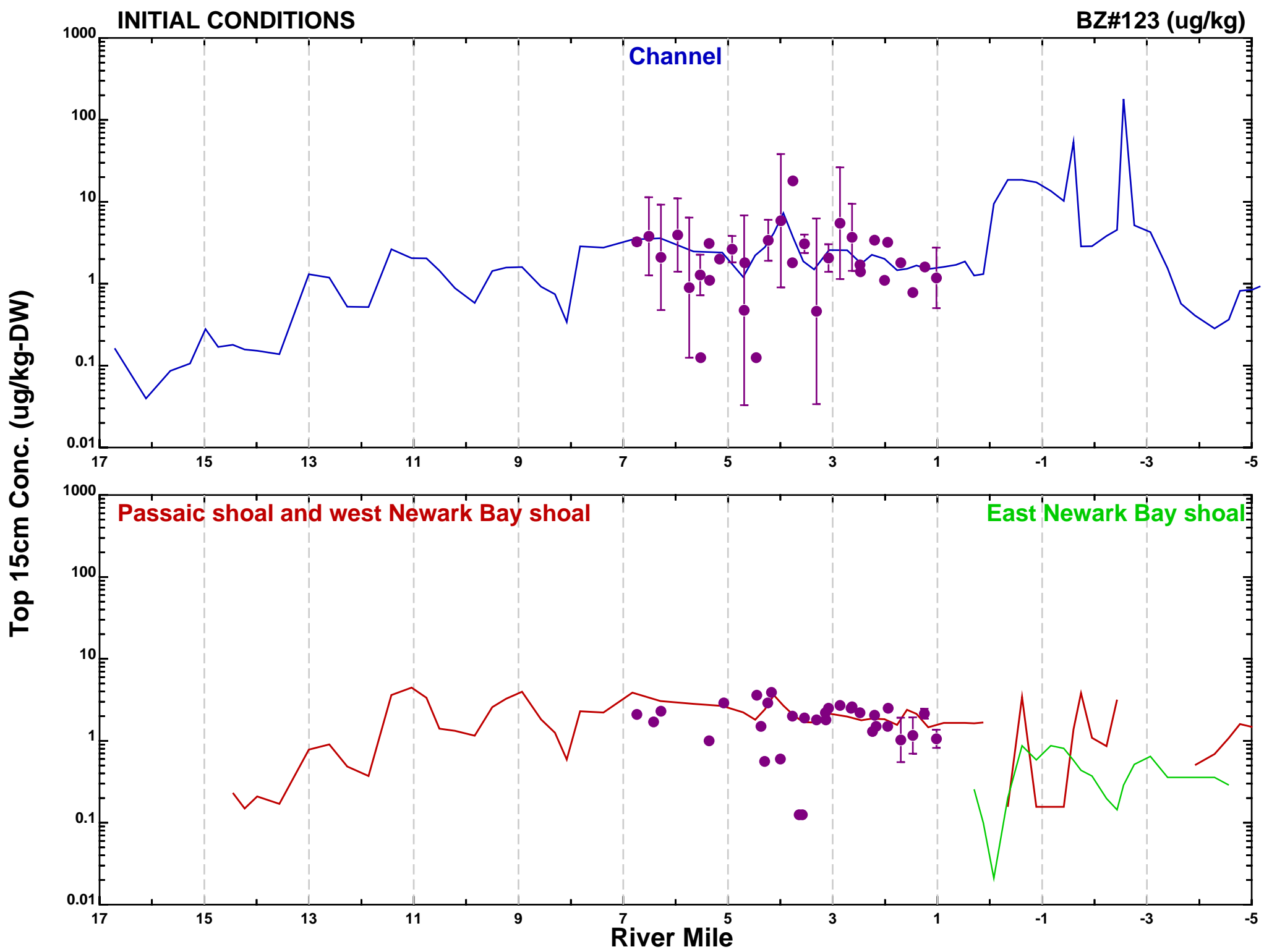
BZ#118 (ug/kg)



Passaic shoal and west Newark Bay shoal

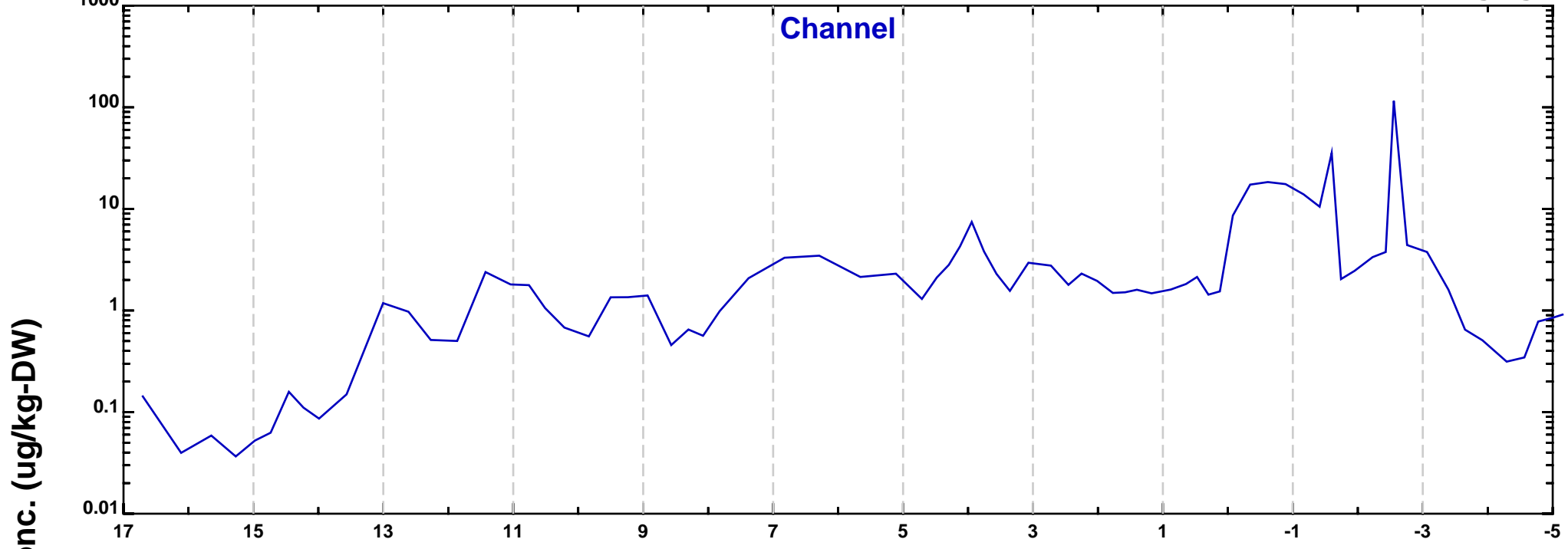
East Newark Bay shoal





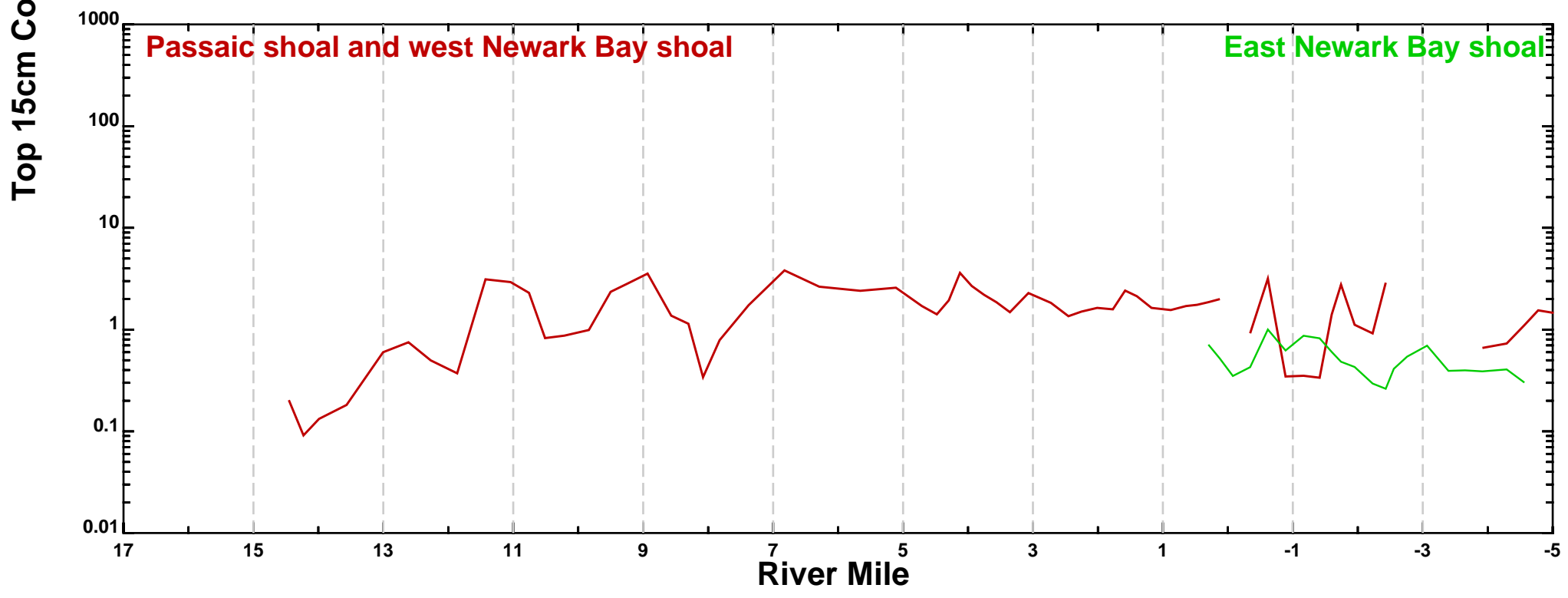
Year = 1996.0

BZ#123 (ug/kg)



Passaic shoal and west Newark Bay shoal

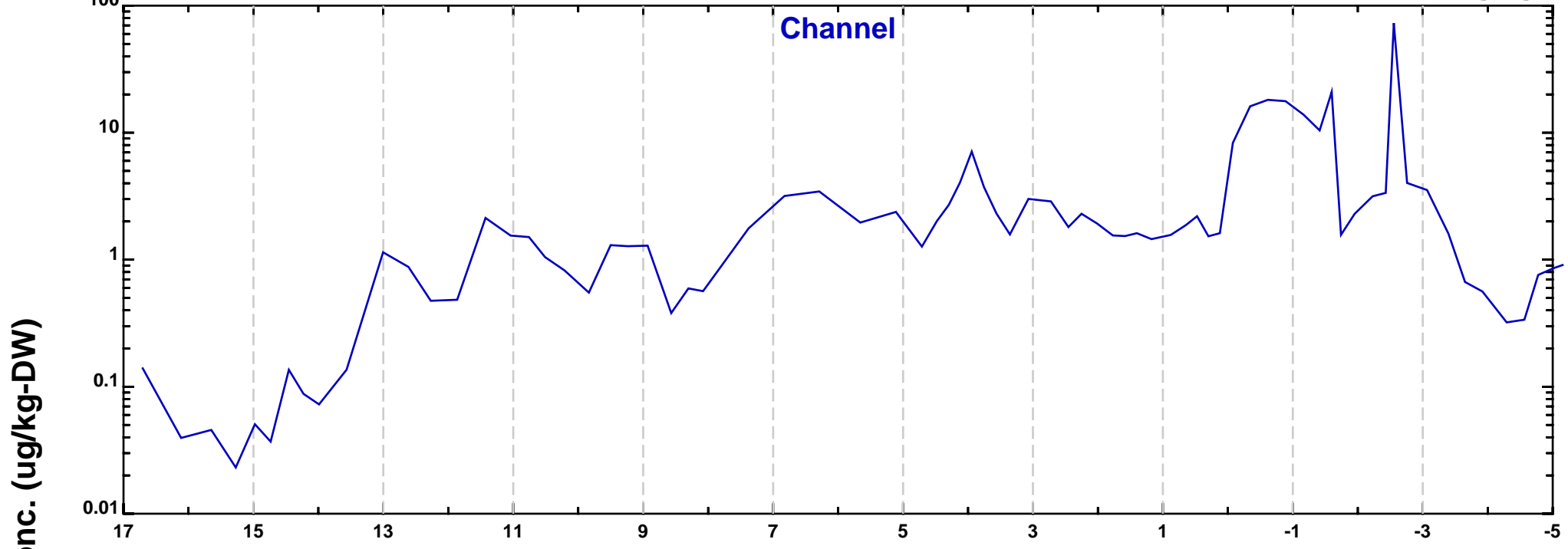
East Newark Bay shoal





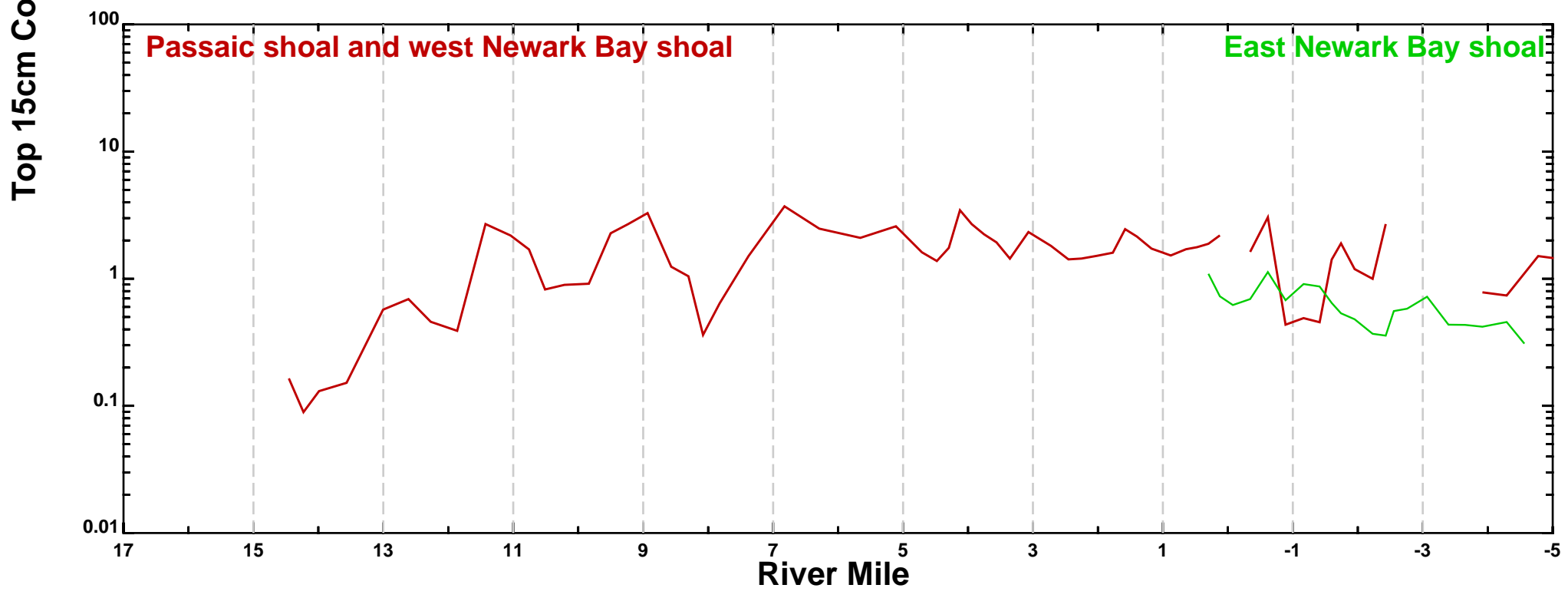
Year = 1997.0

BZ#123 (ug/kg)



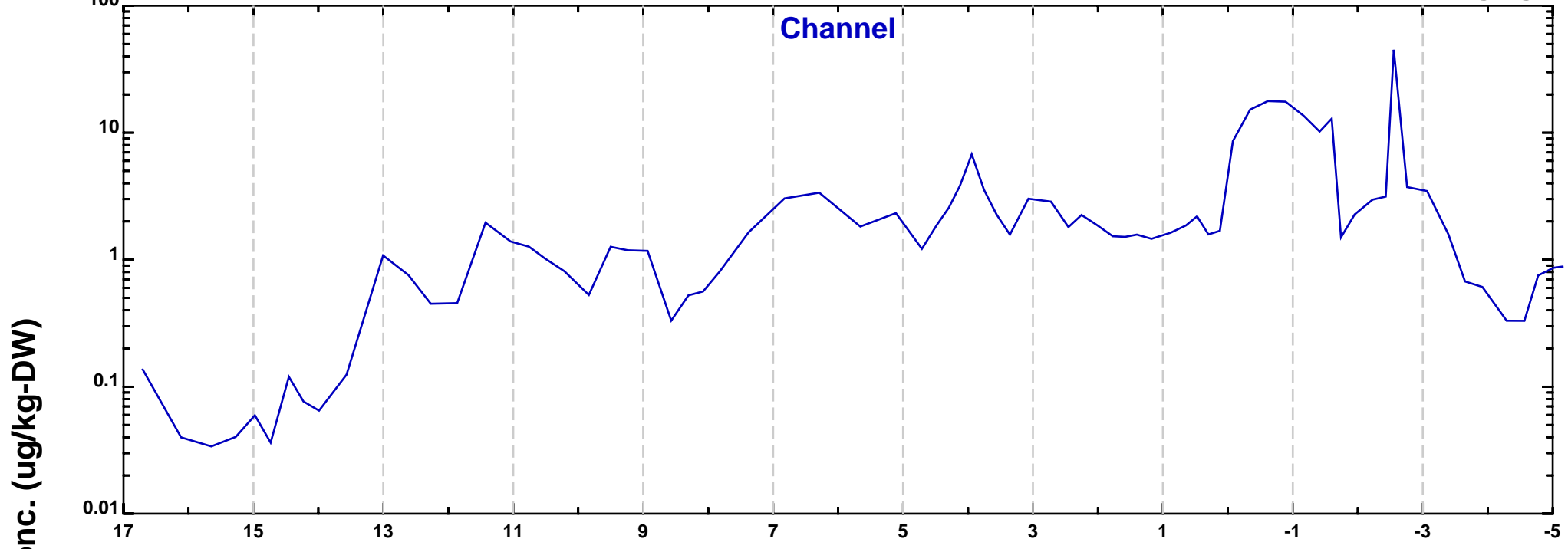
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



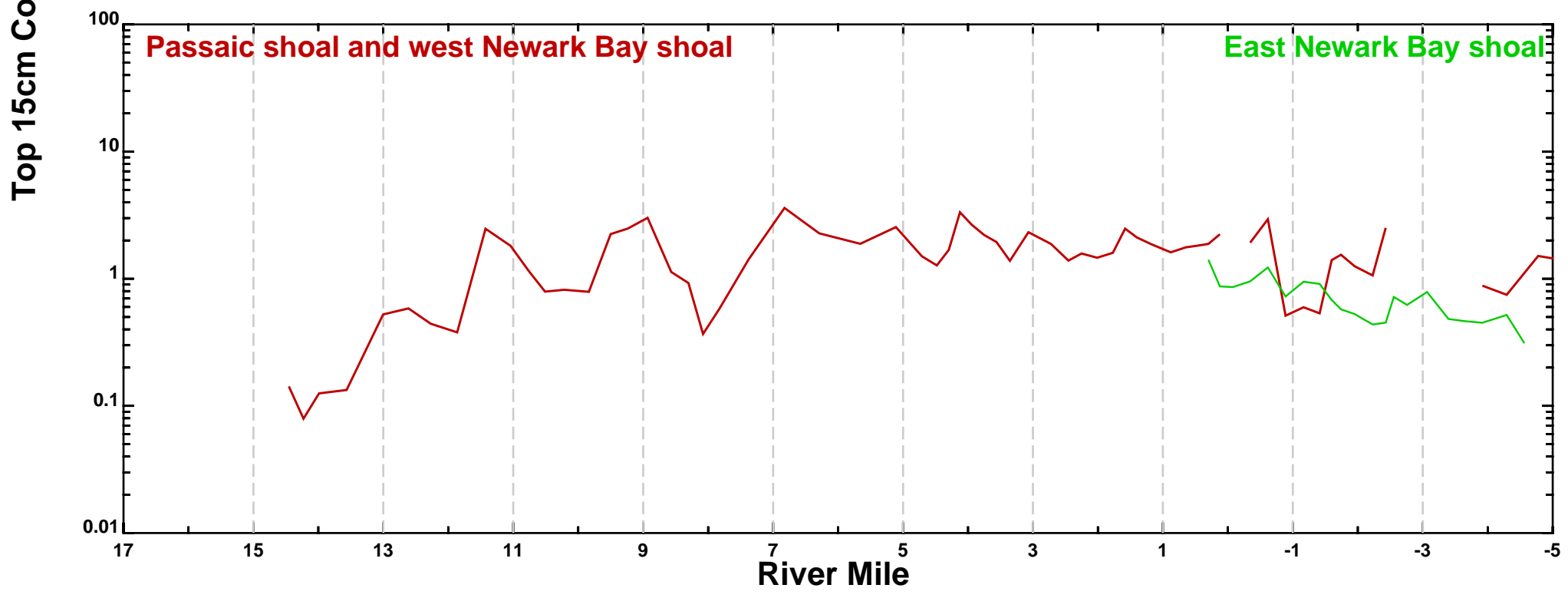
Year = 1998.0

BZ#123 (ug/kg)



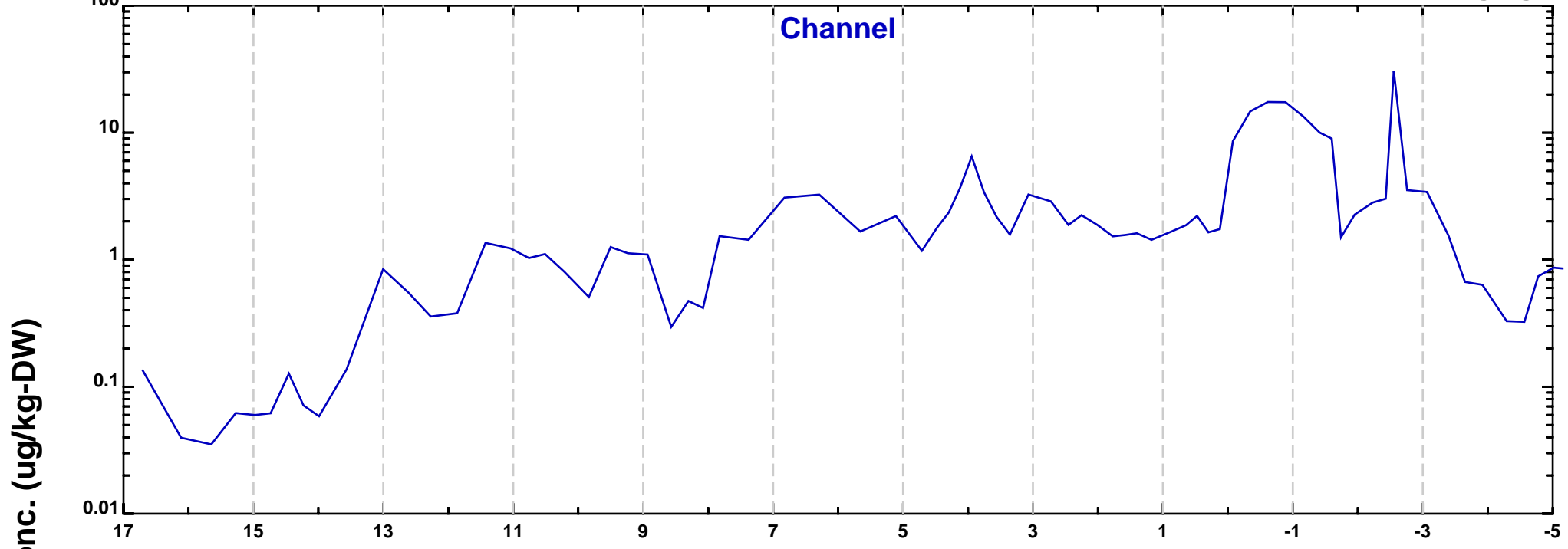
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



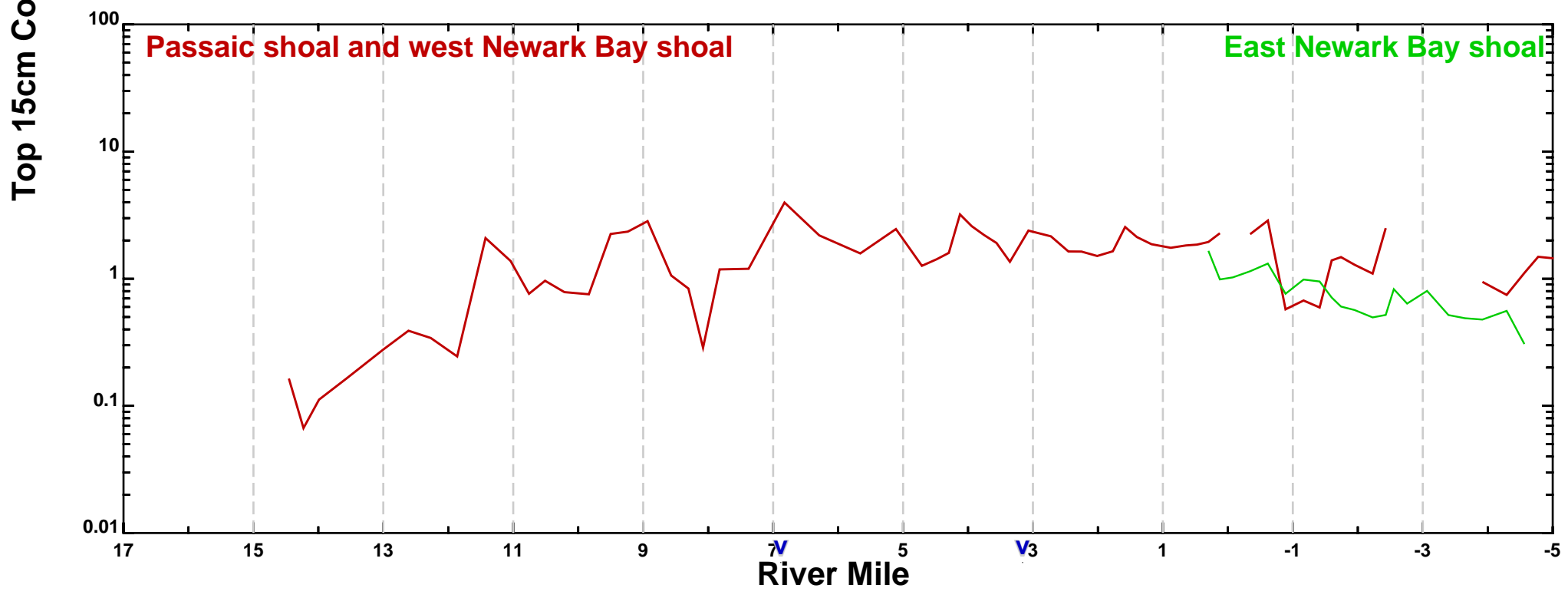
Year = 1999.0

BZ#123 (ug/kg)



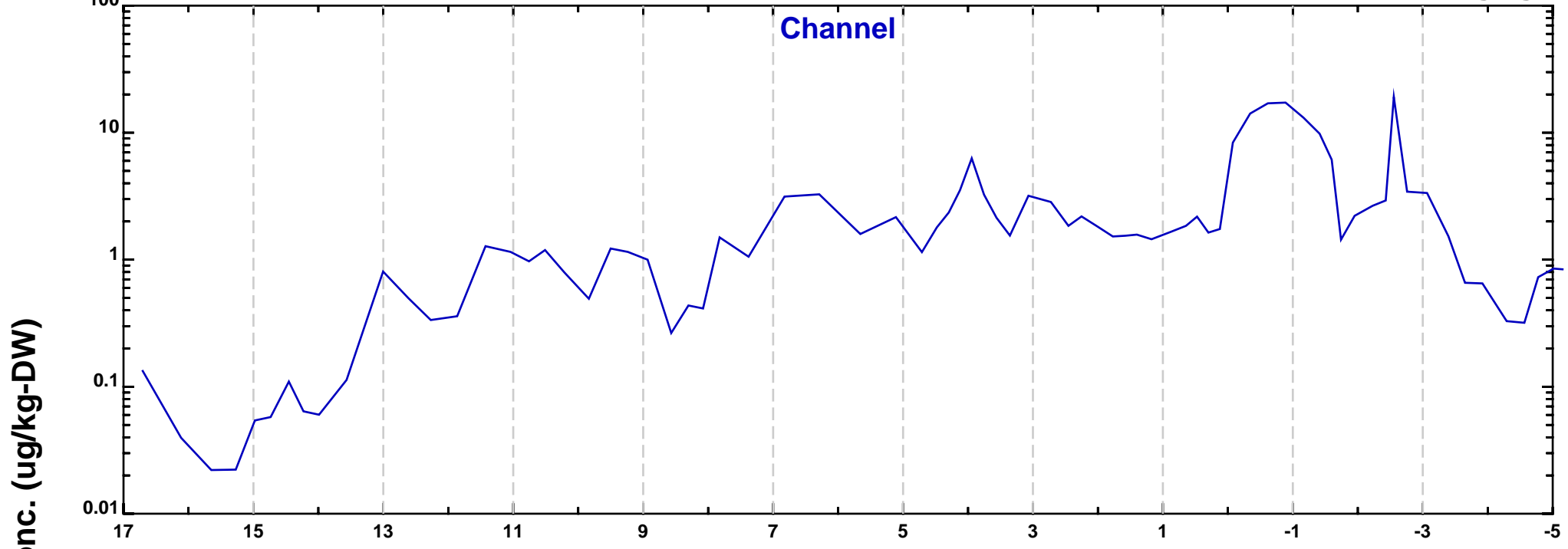
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



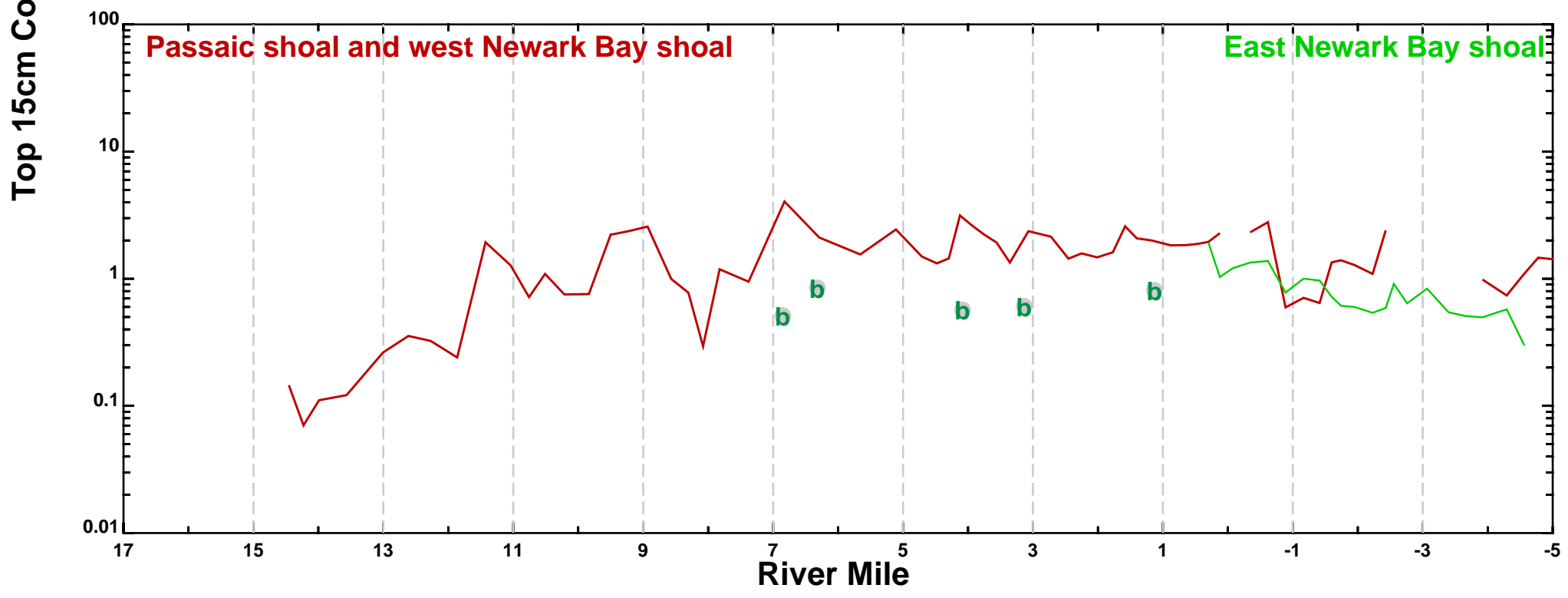
Year =2000.0

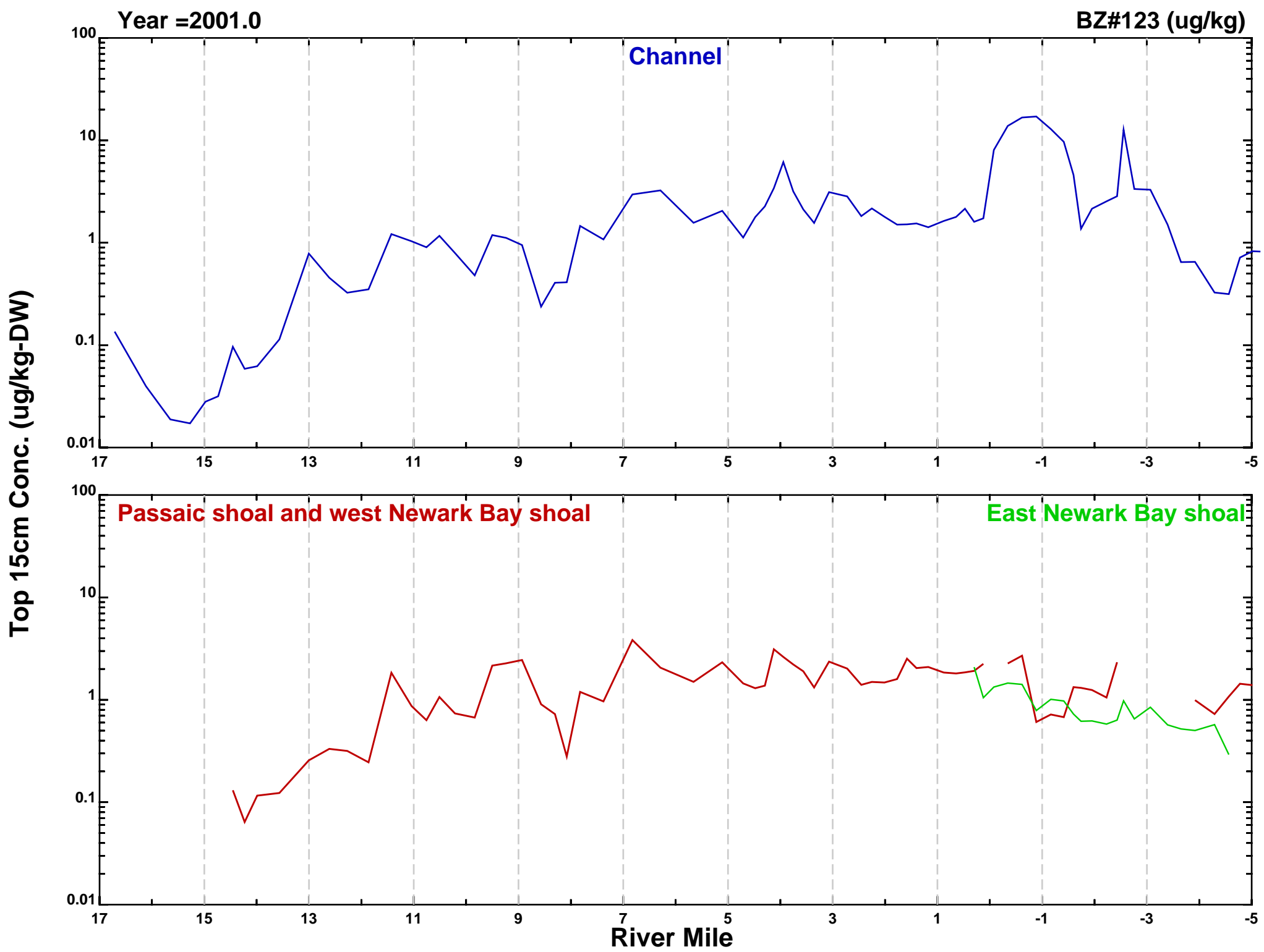
BZ#123 (ug/kg)



Passaic shoal and west Newark Bay shoal

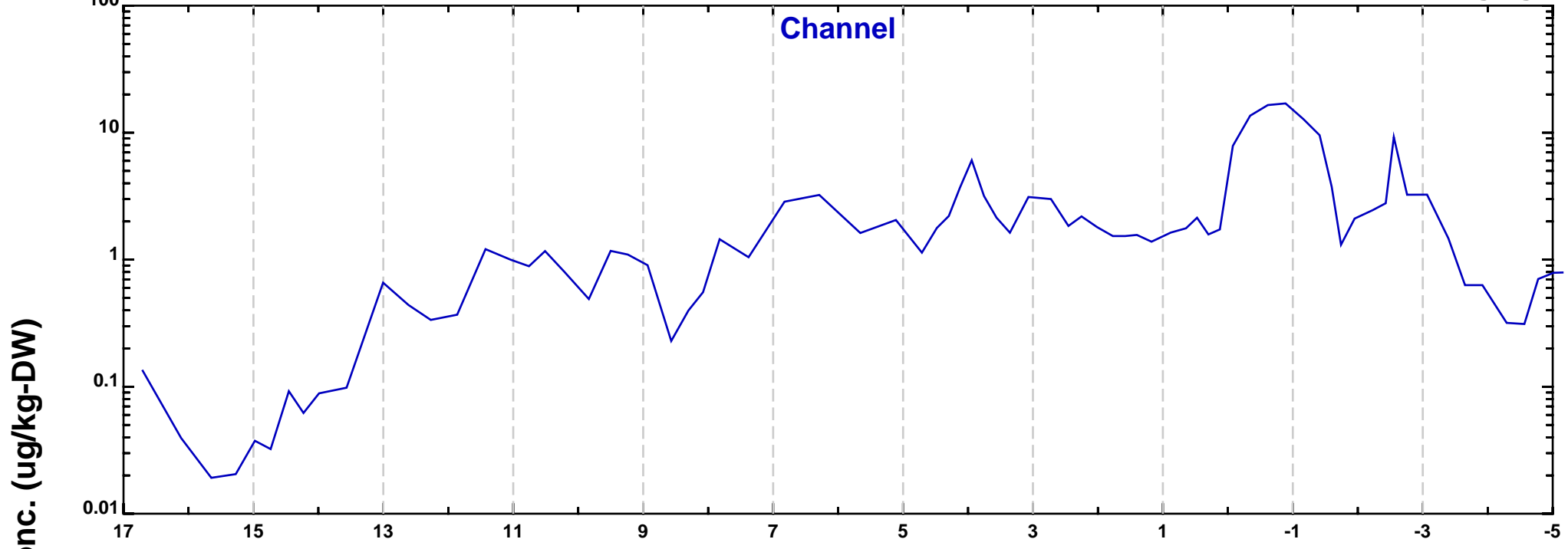
East Newark Bay shoal





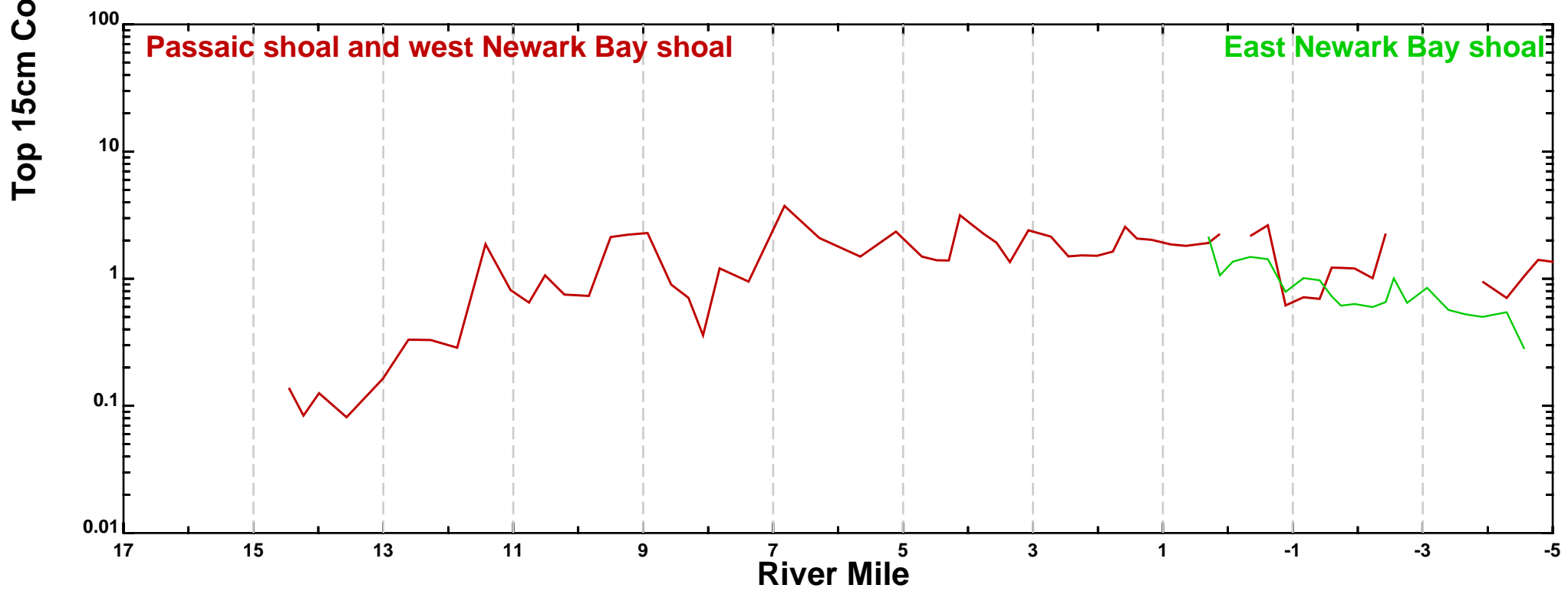
Year =2002.0

BZ#123 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

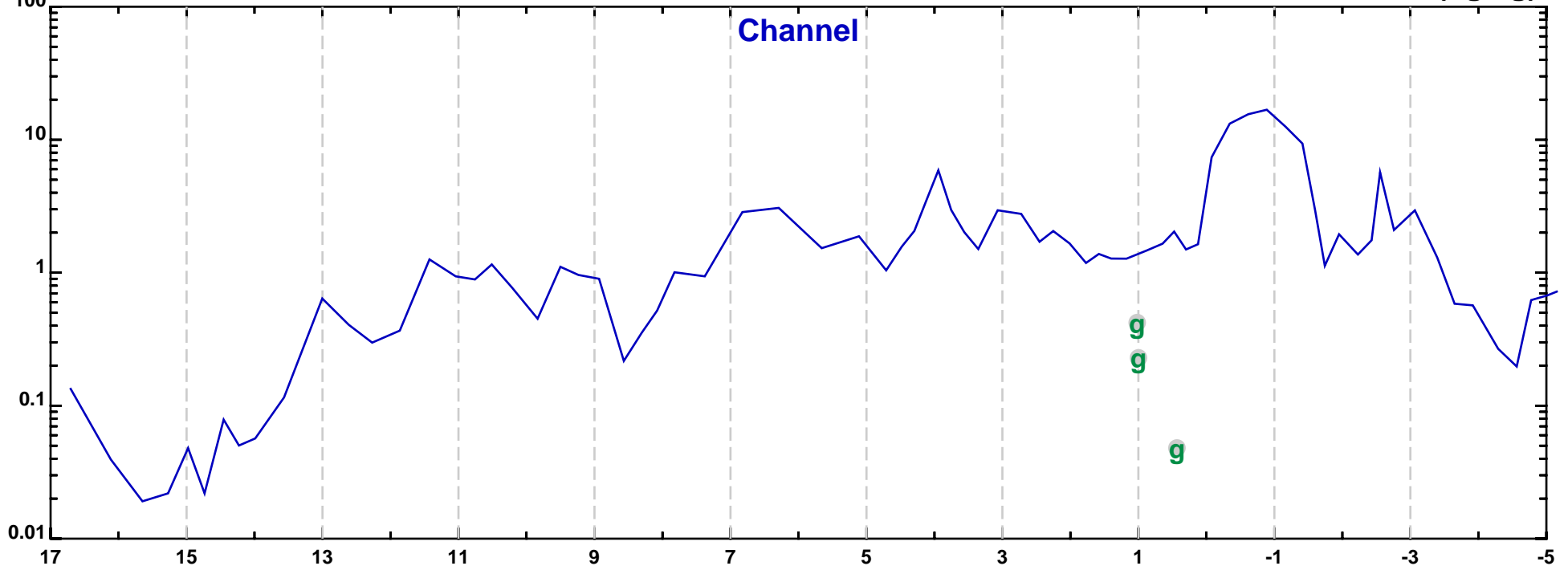


Year = 2003.0

BZ#123 (ug/kg)

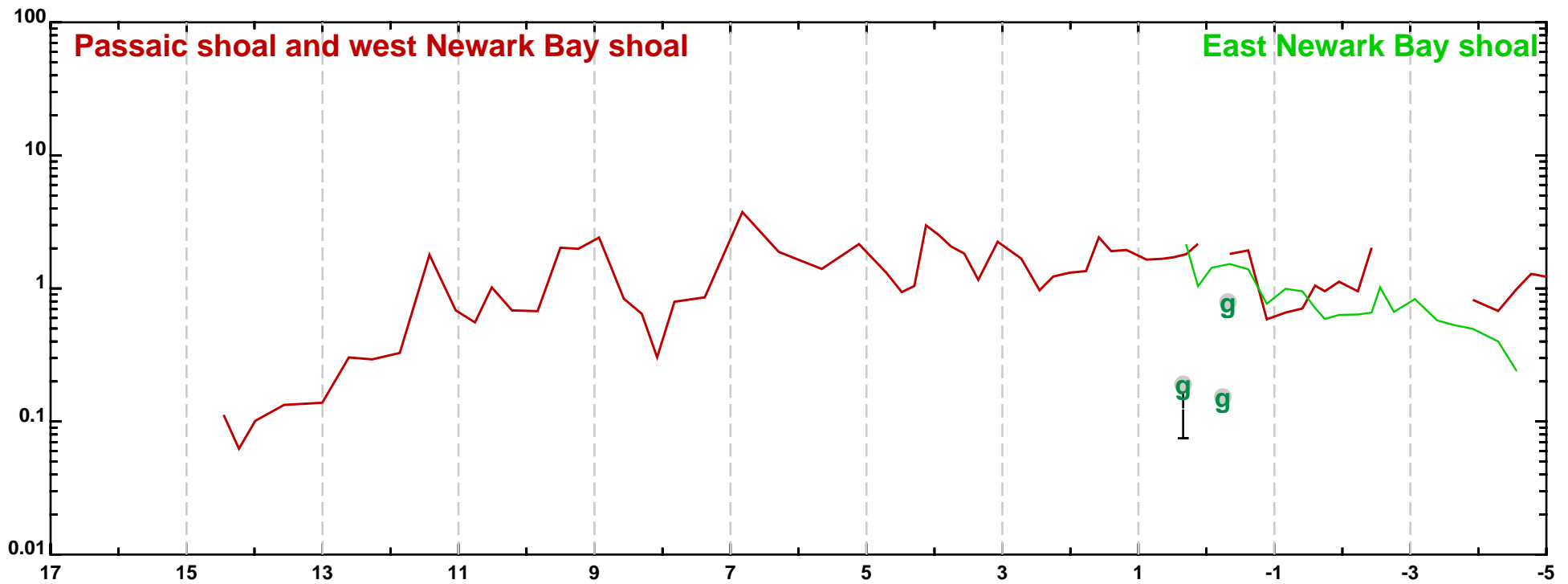
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



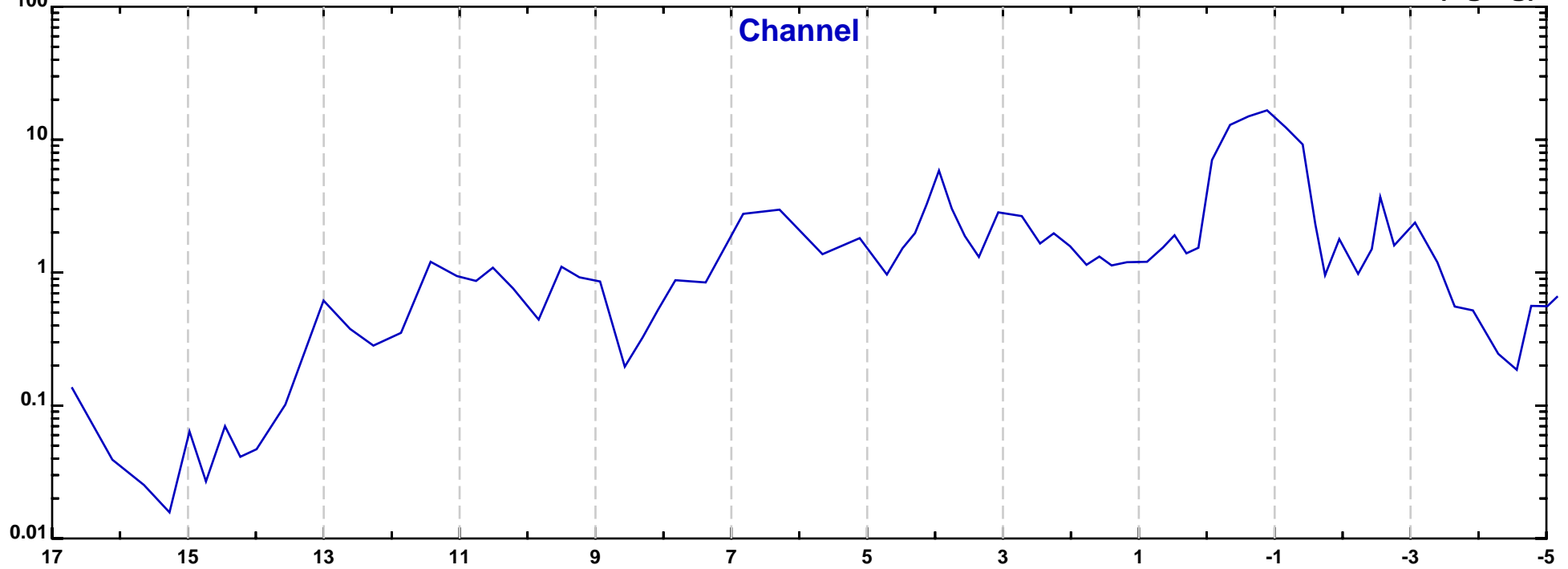
River Mile

Year =2004.0

BZ#123 (ug/kg)

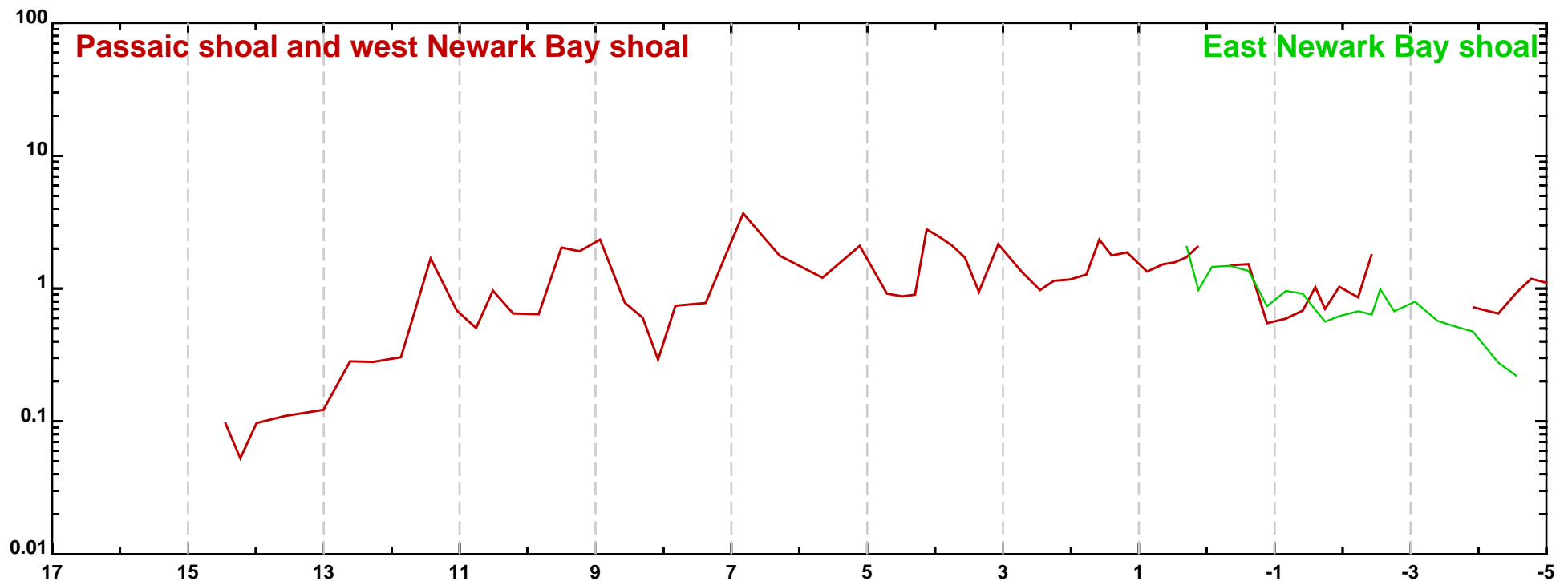
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

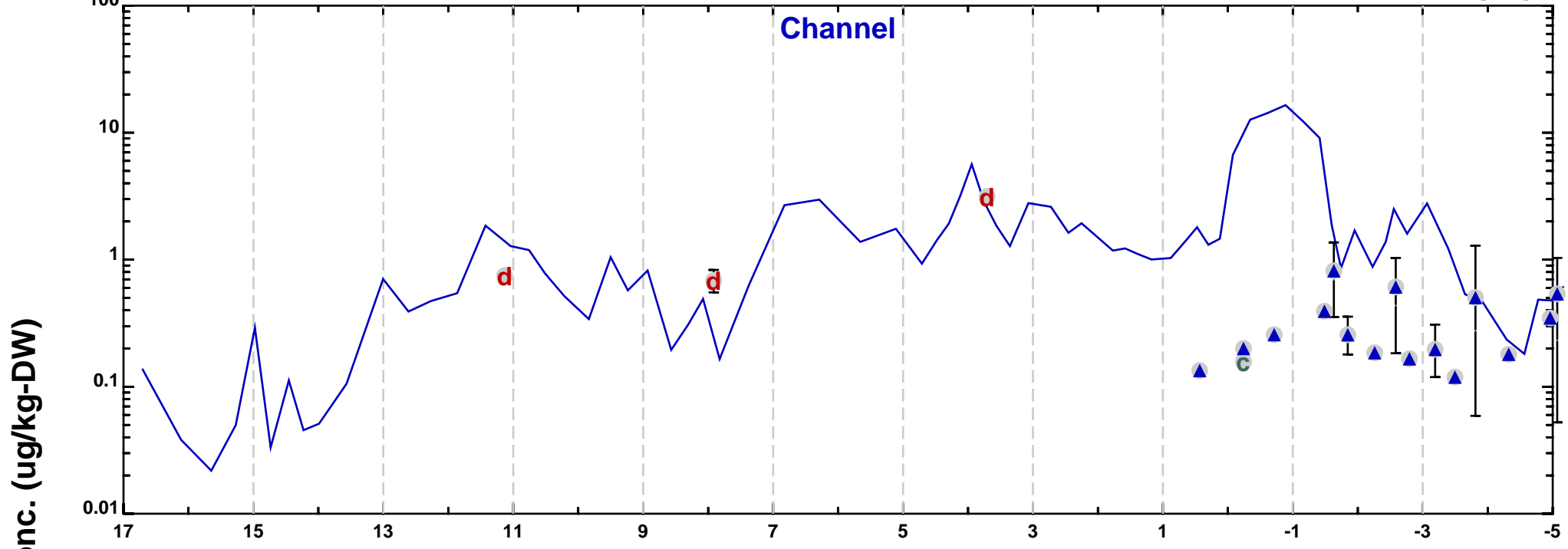


River Mile



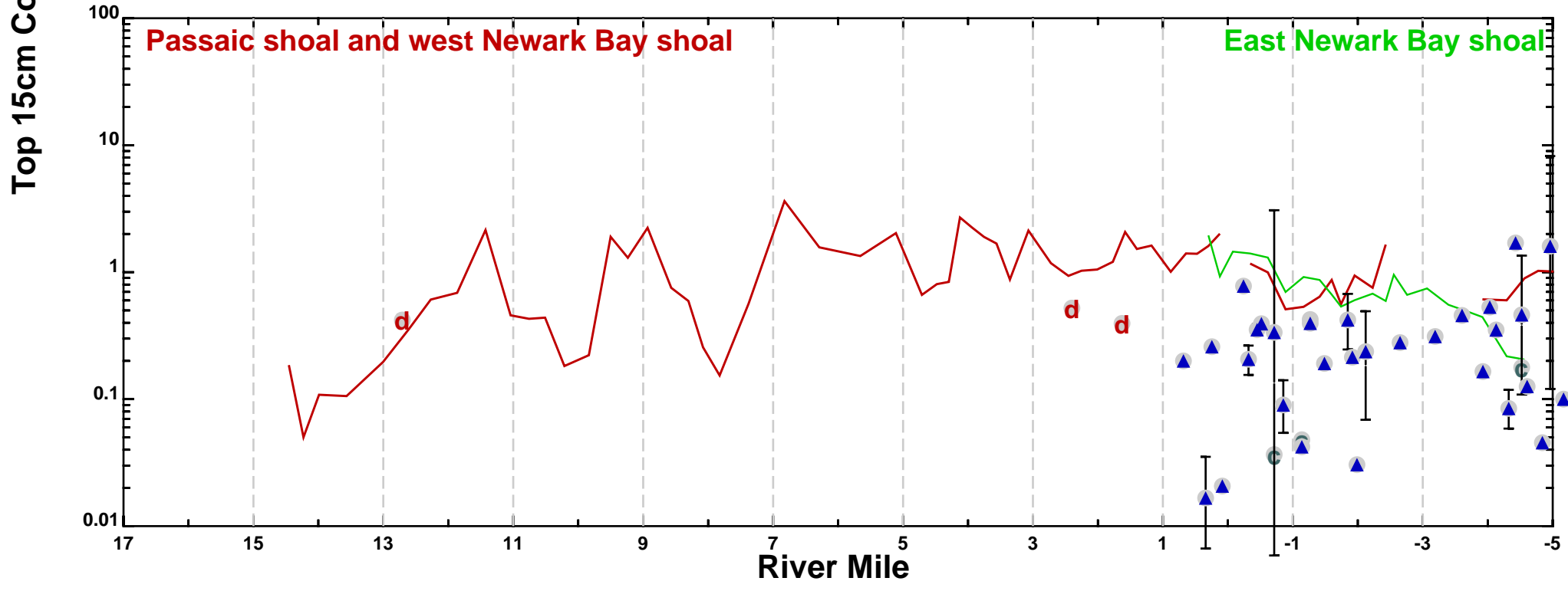
Year =2005.0

BZ#123 (ug/kg)



Passaic shoal and west Newark Bay shoal

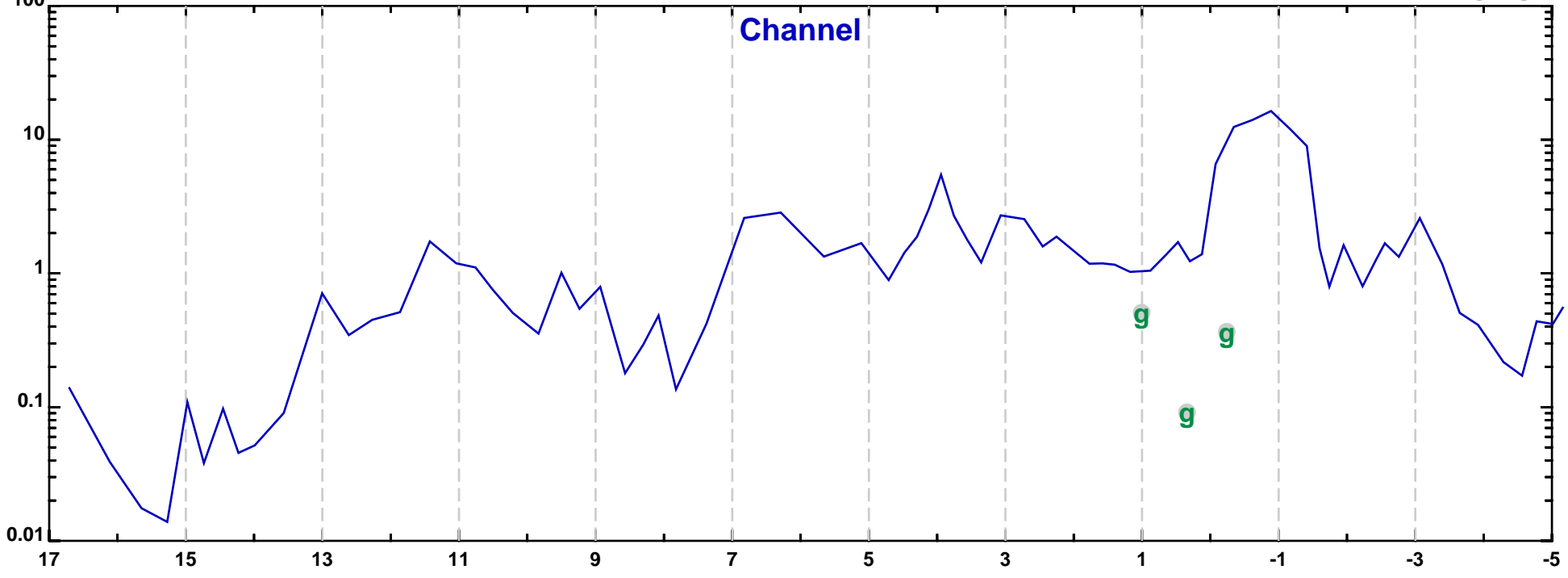
East Newark Bay shoal



Year =2006.0

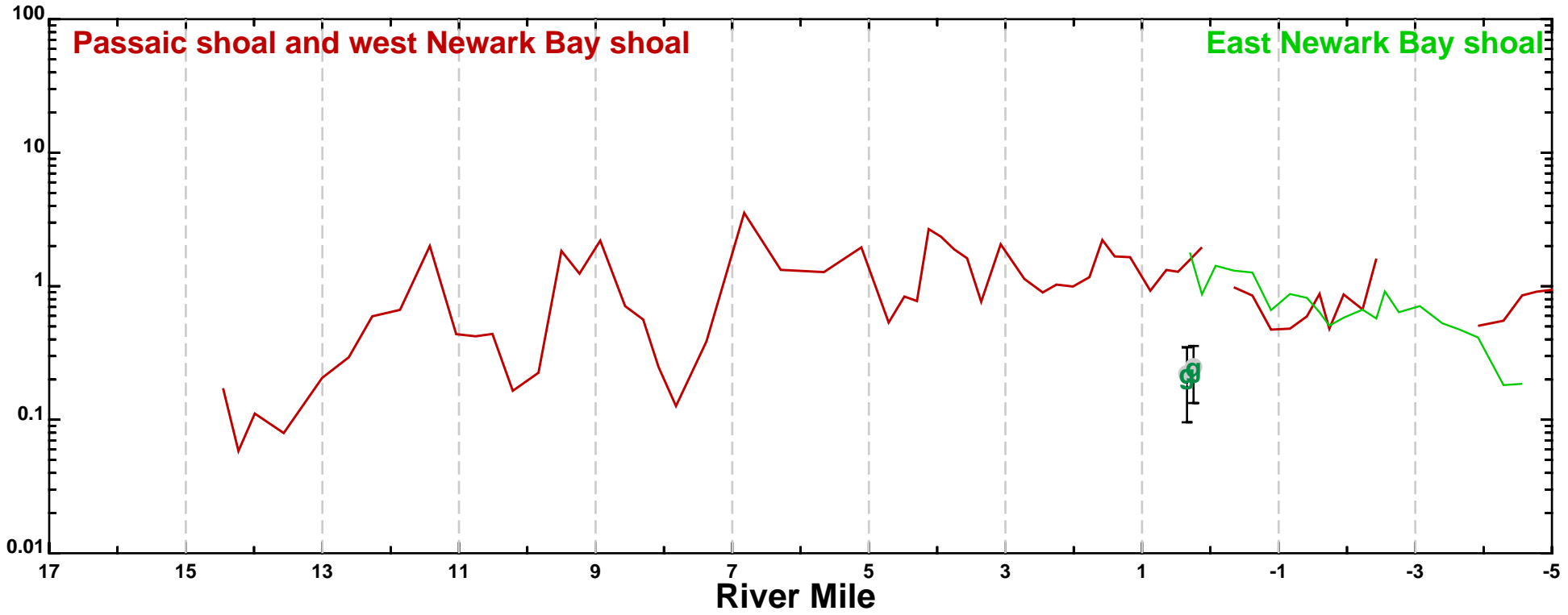
BZ#123 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



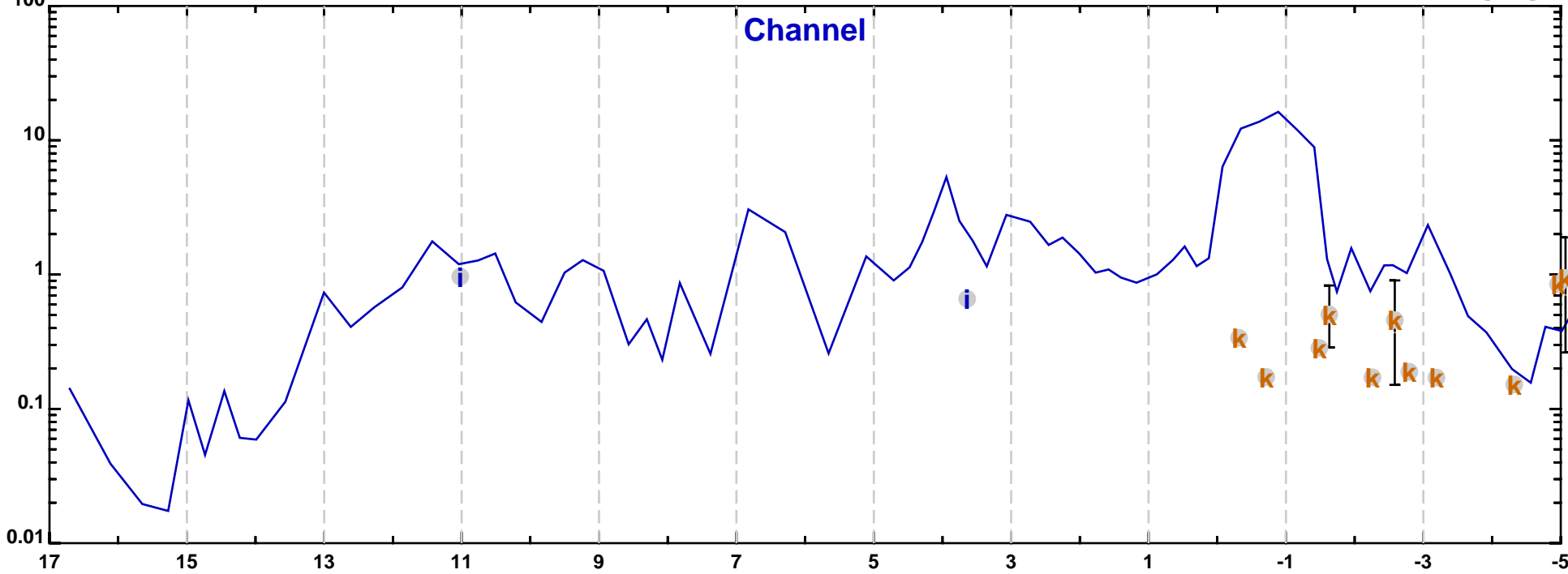
River Mile

Year =2007.0

BZ#123 (ug/kg)

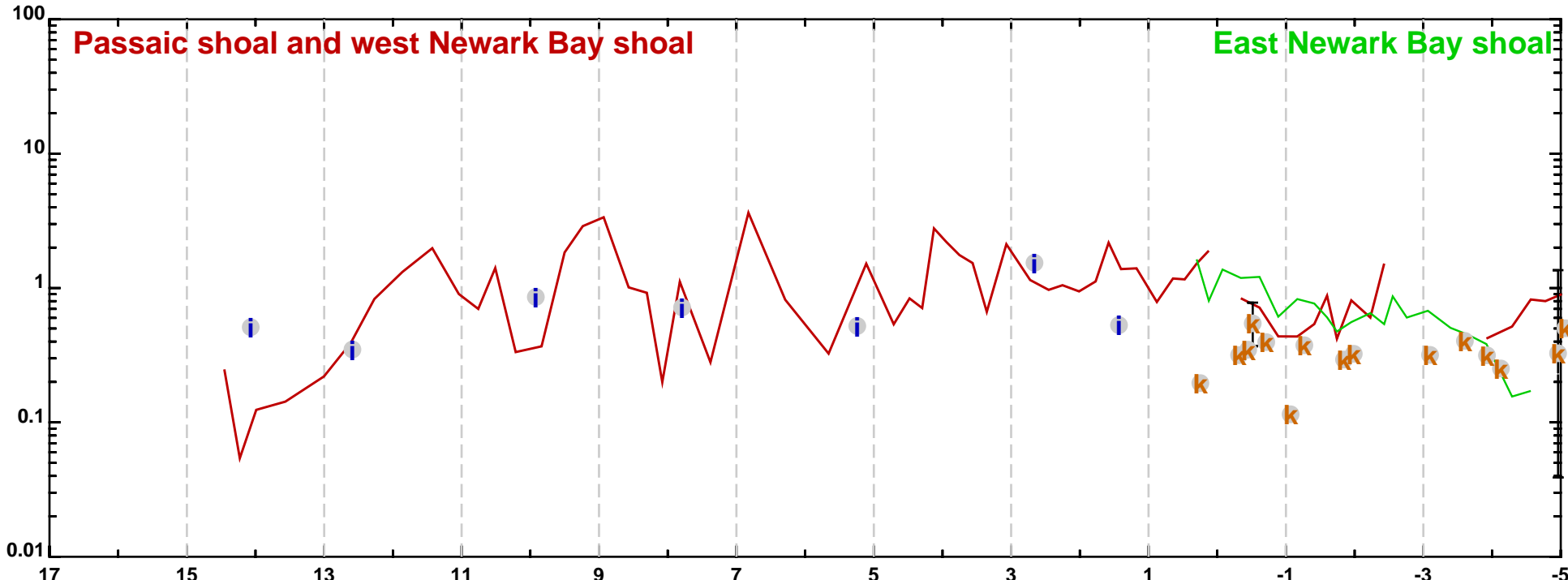
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



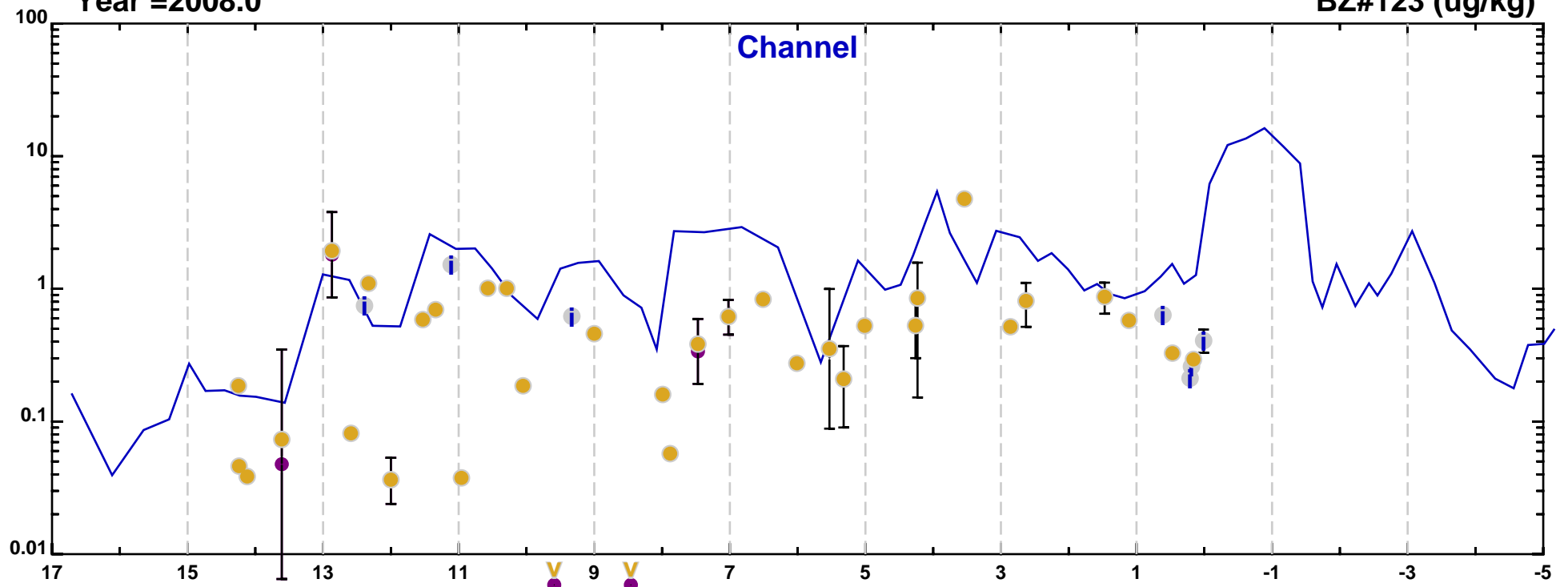
River Mile

Year =2008.0

BZ#123 (ug/kg)

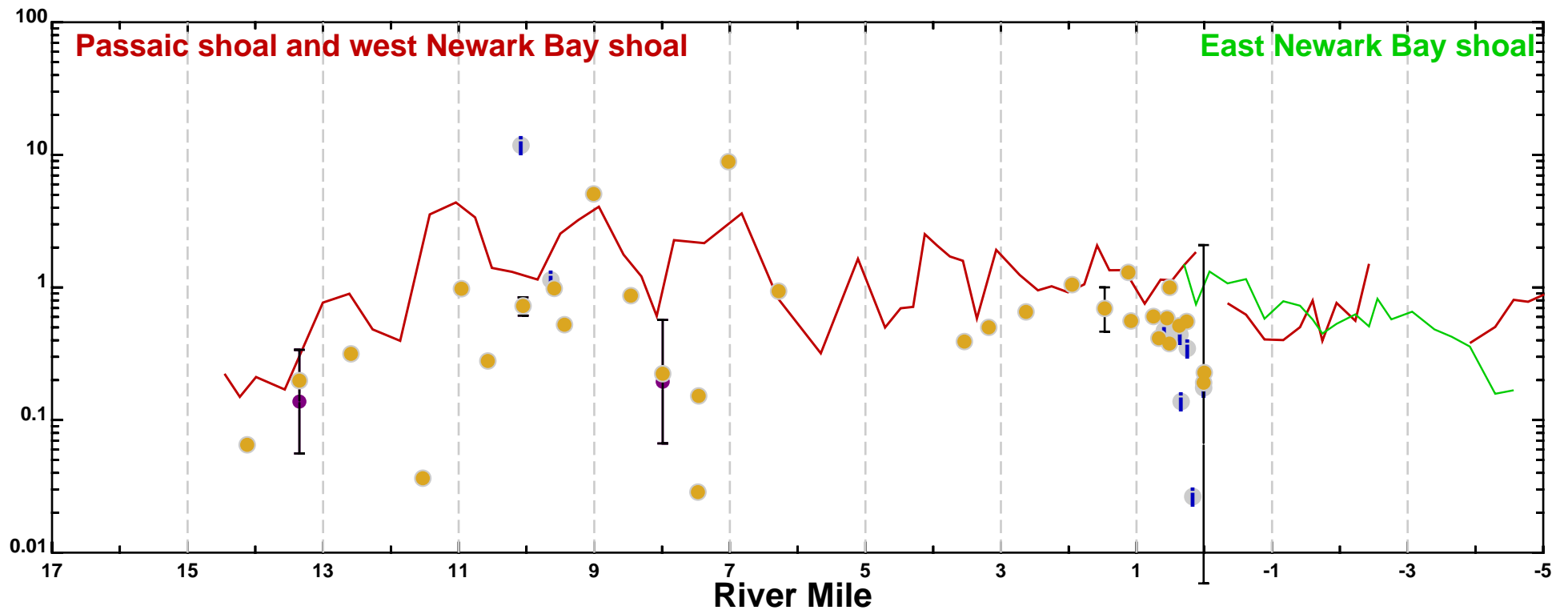
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



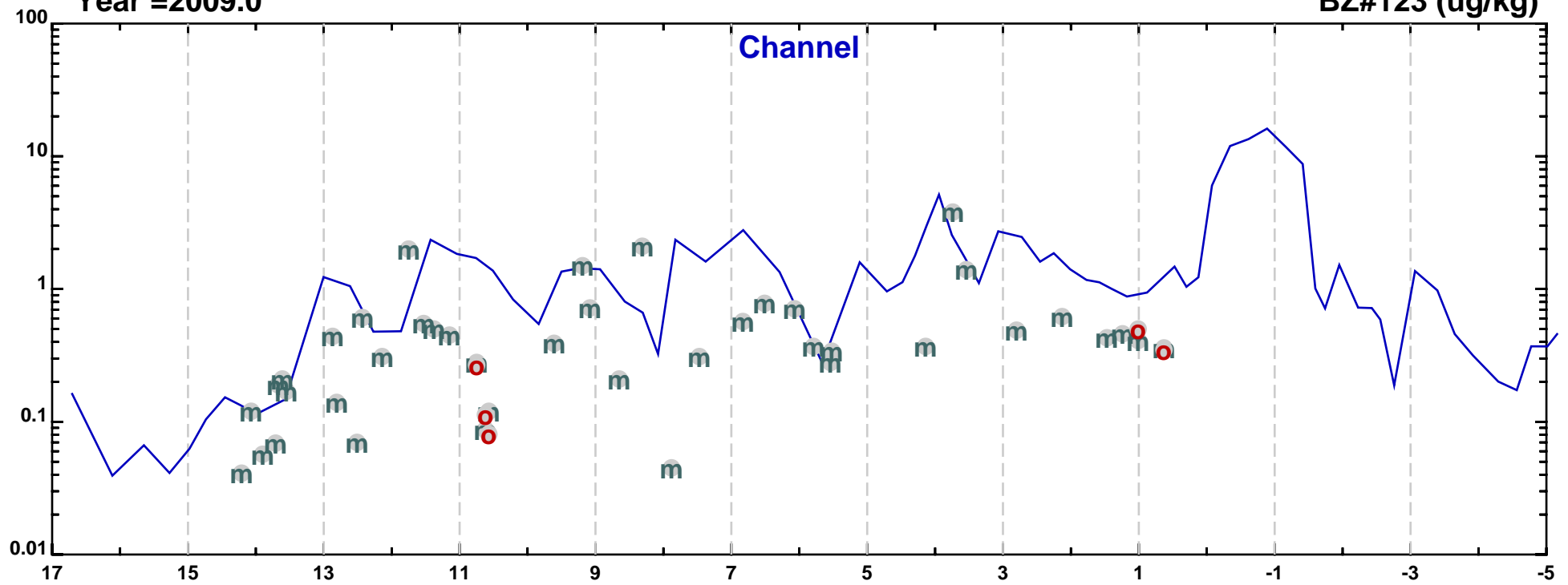
River Mile

Year = 2009.0

BZ#123 (ug/kg)

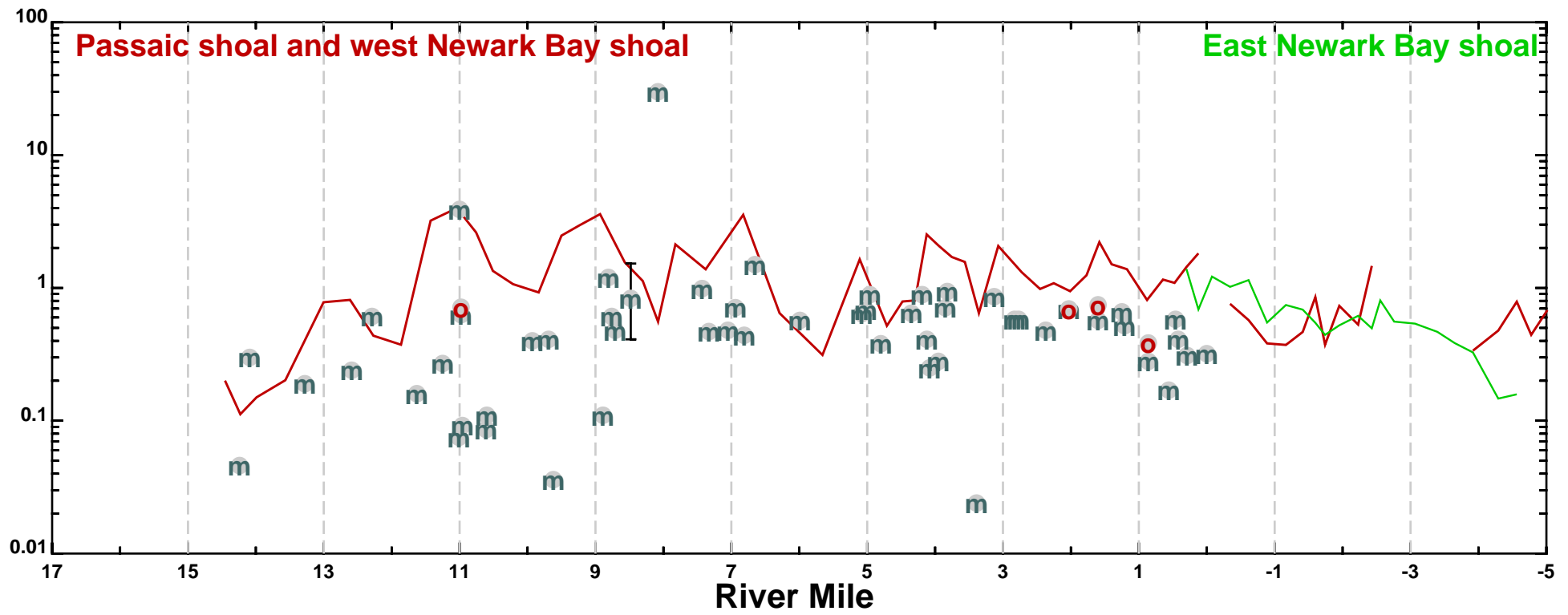
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



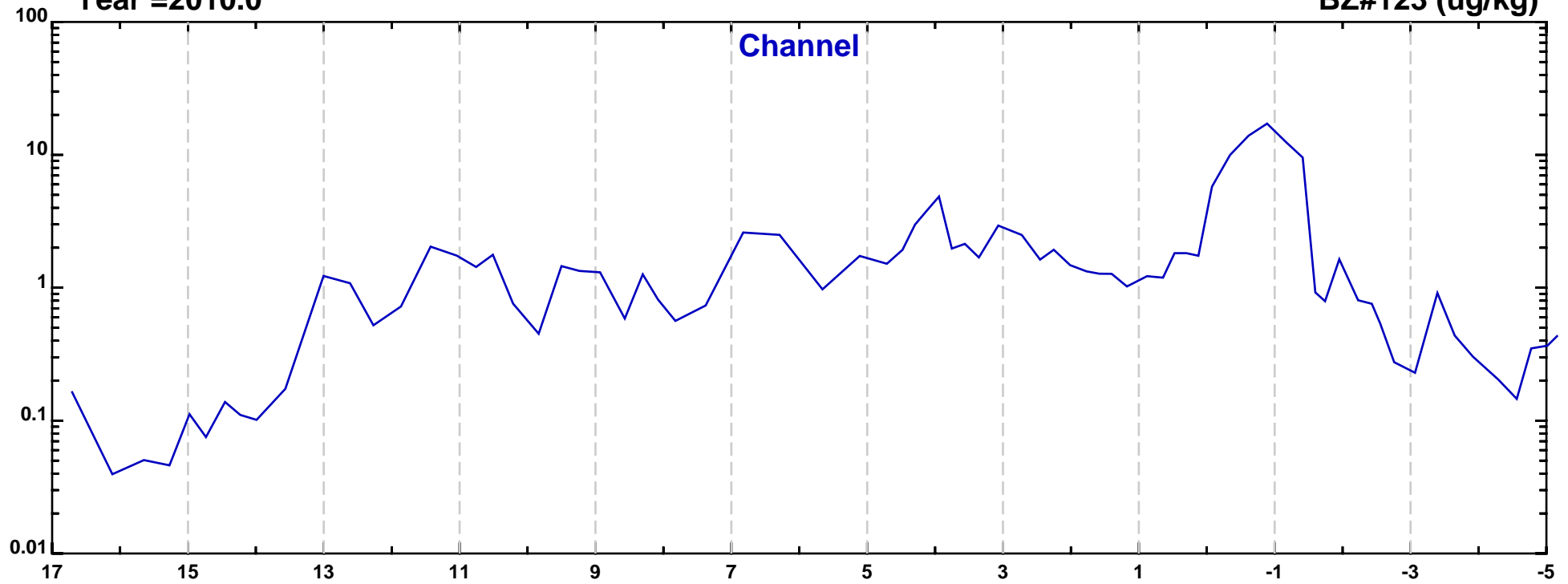
River Mile

Year =2010.0

BZ#123 (ug/kg)

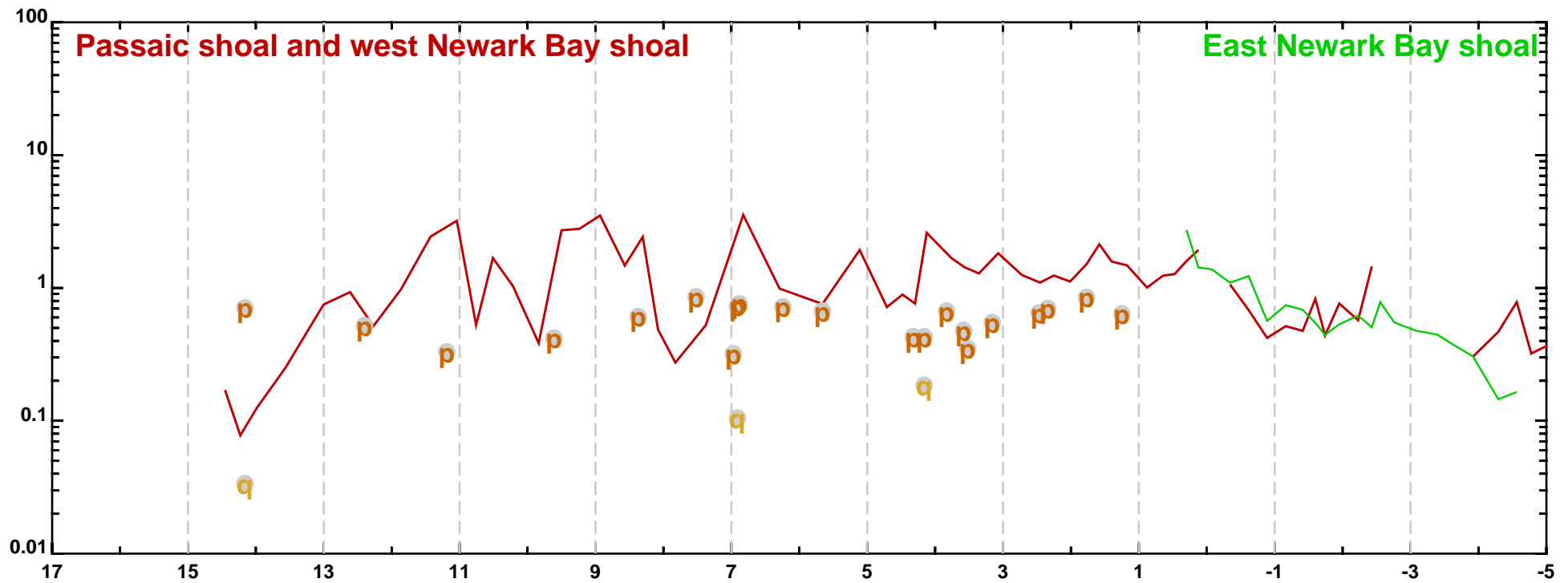
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



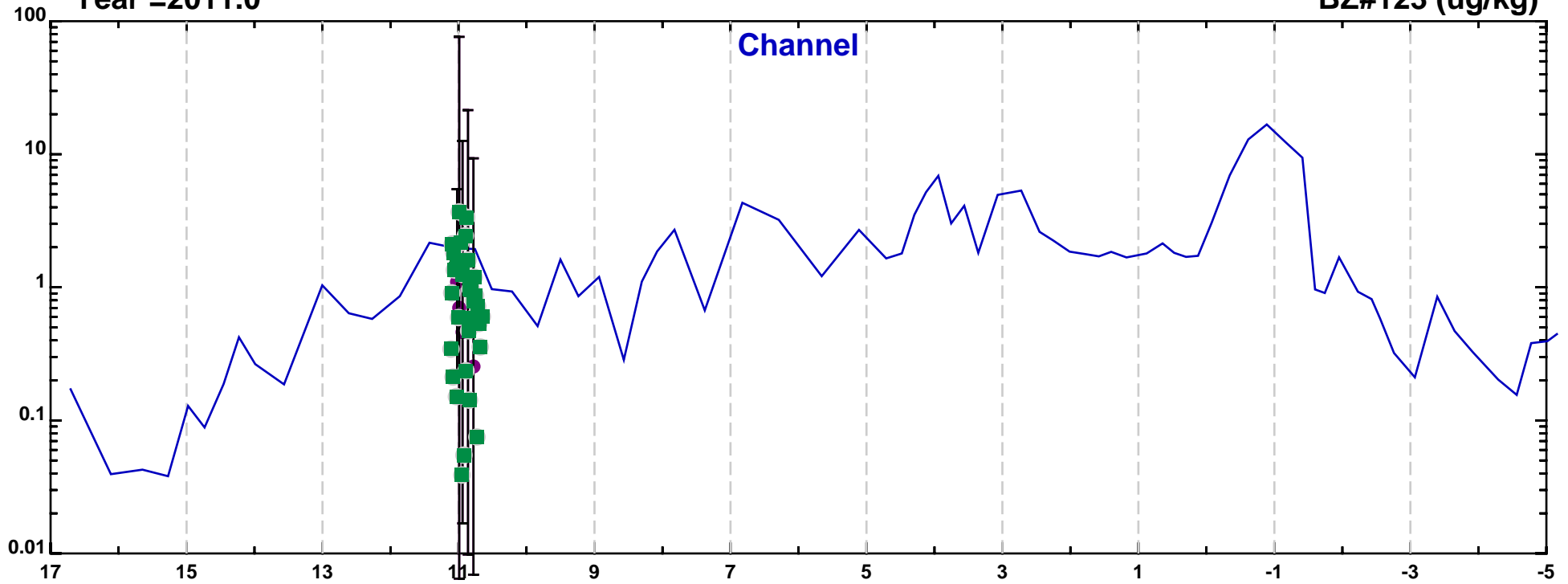
River Mile

Year =2011.0

BZ#123 (ug/kg)

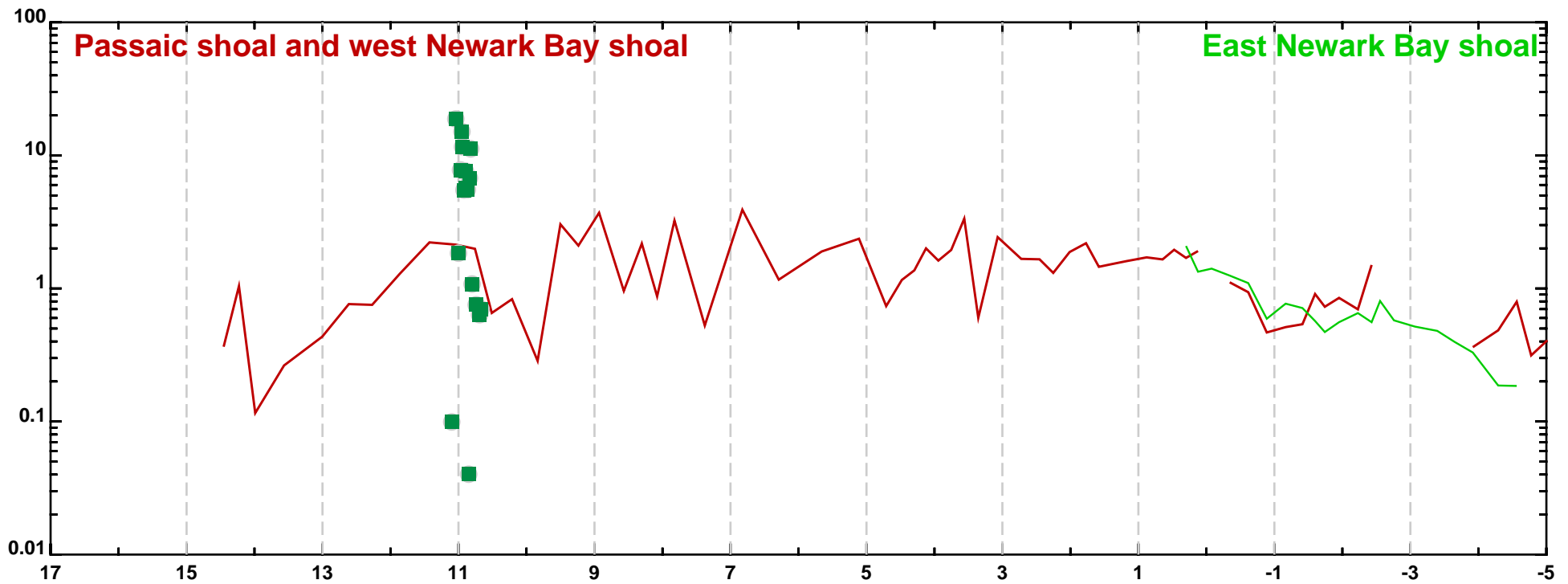
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



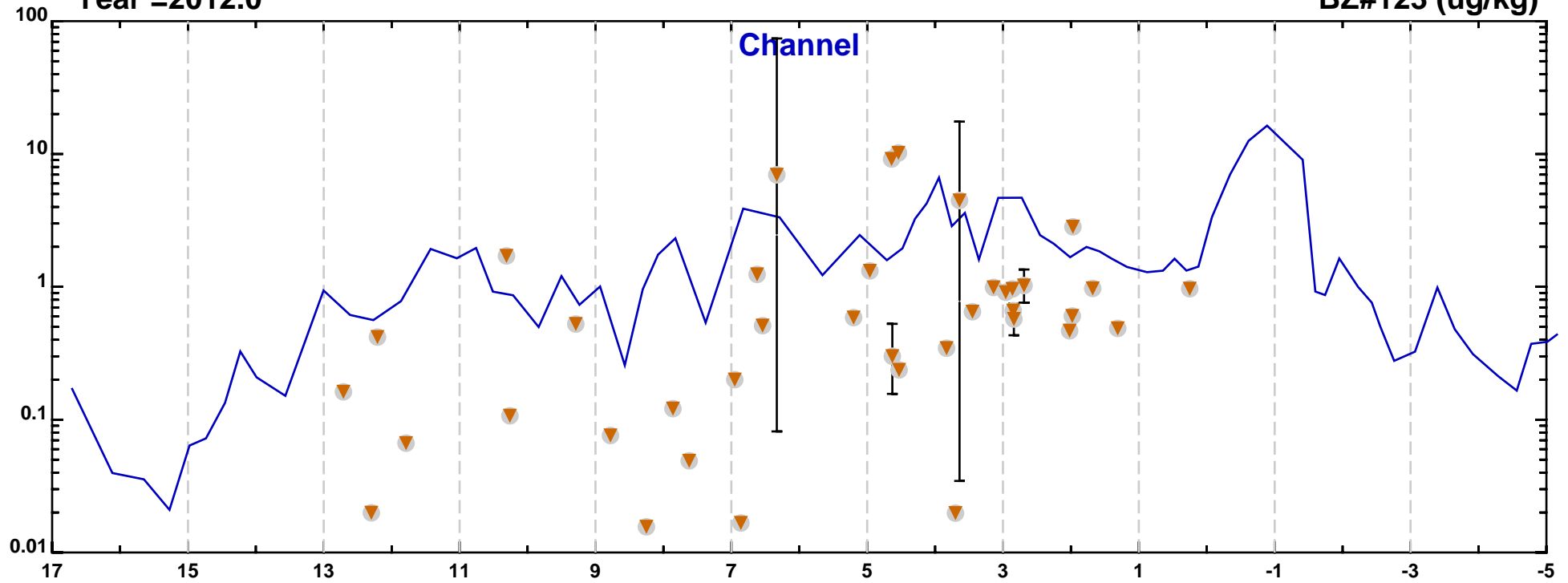
River Mile

Year =2012.0

BZ#123 (ug/kg)

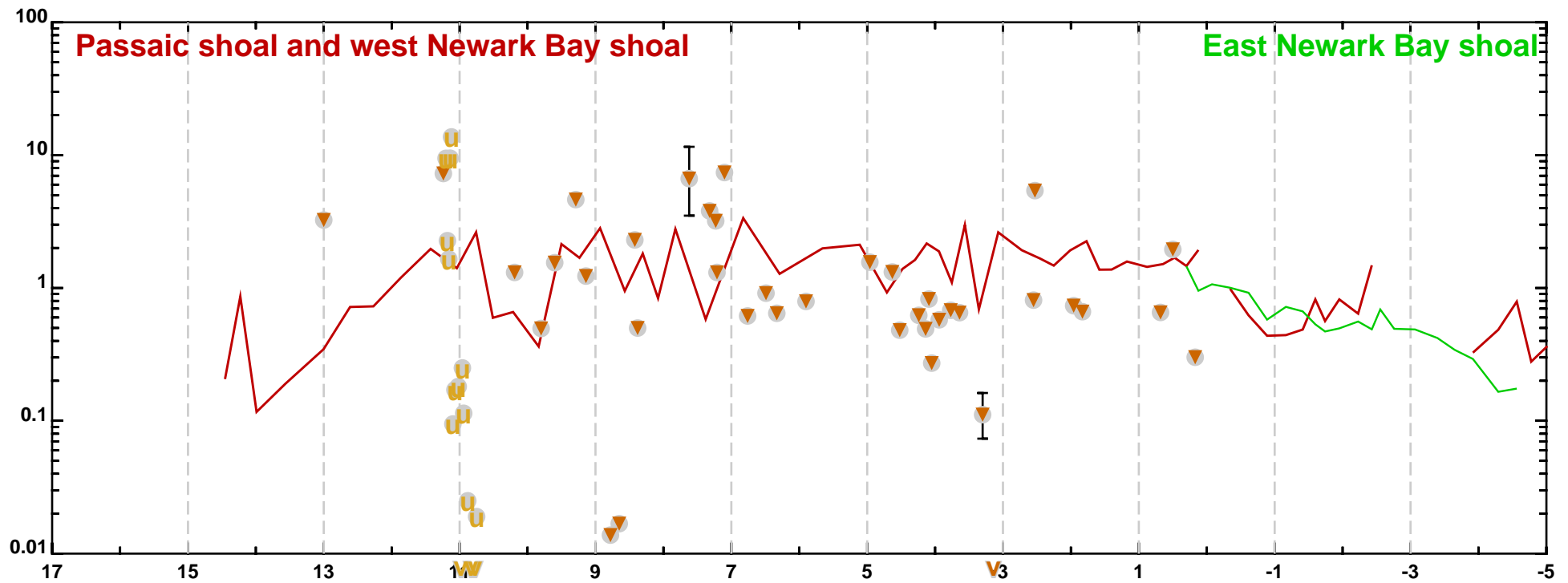
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

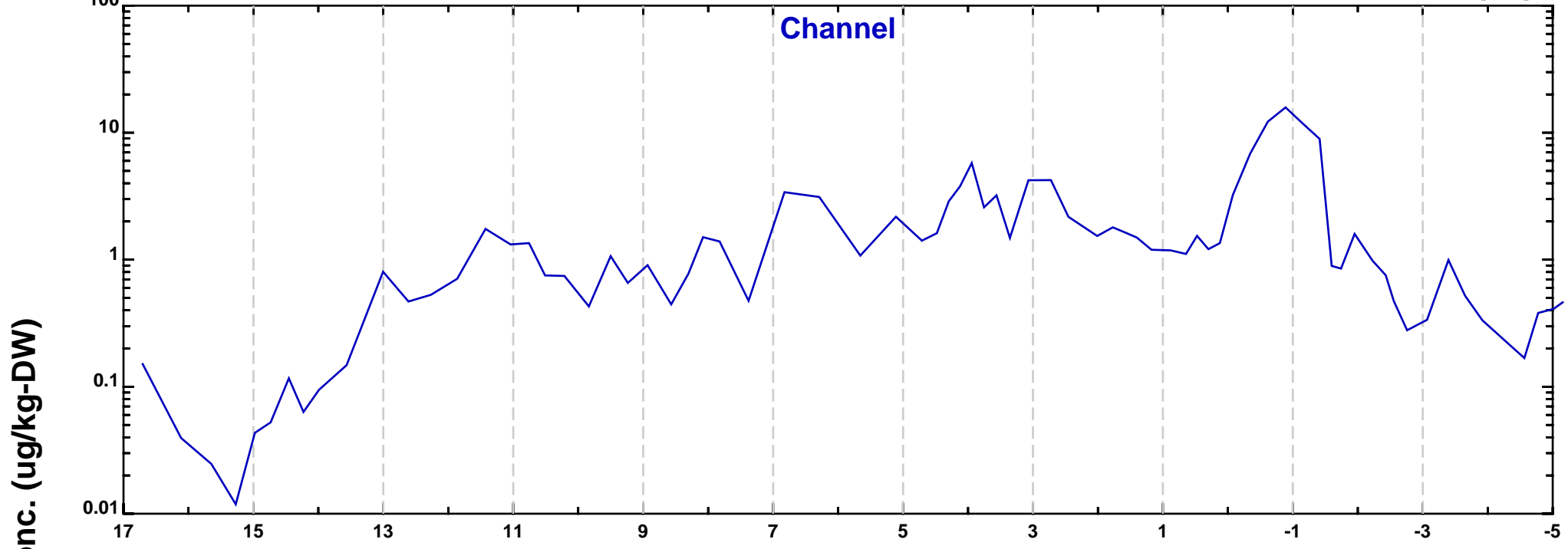


River Mile



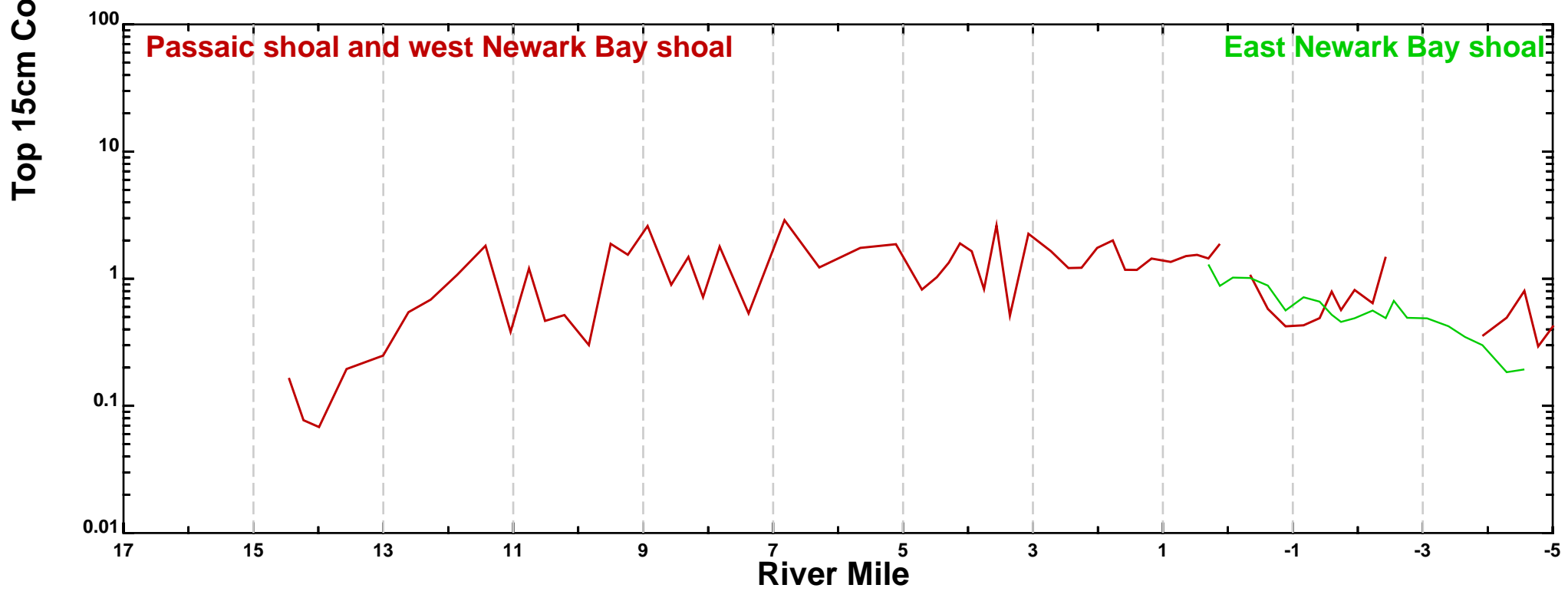
Year =2013.0

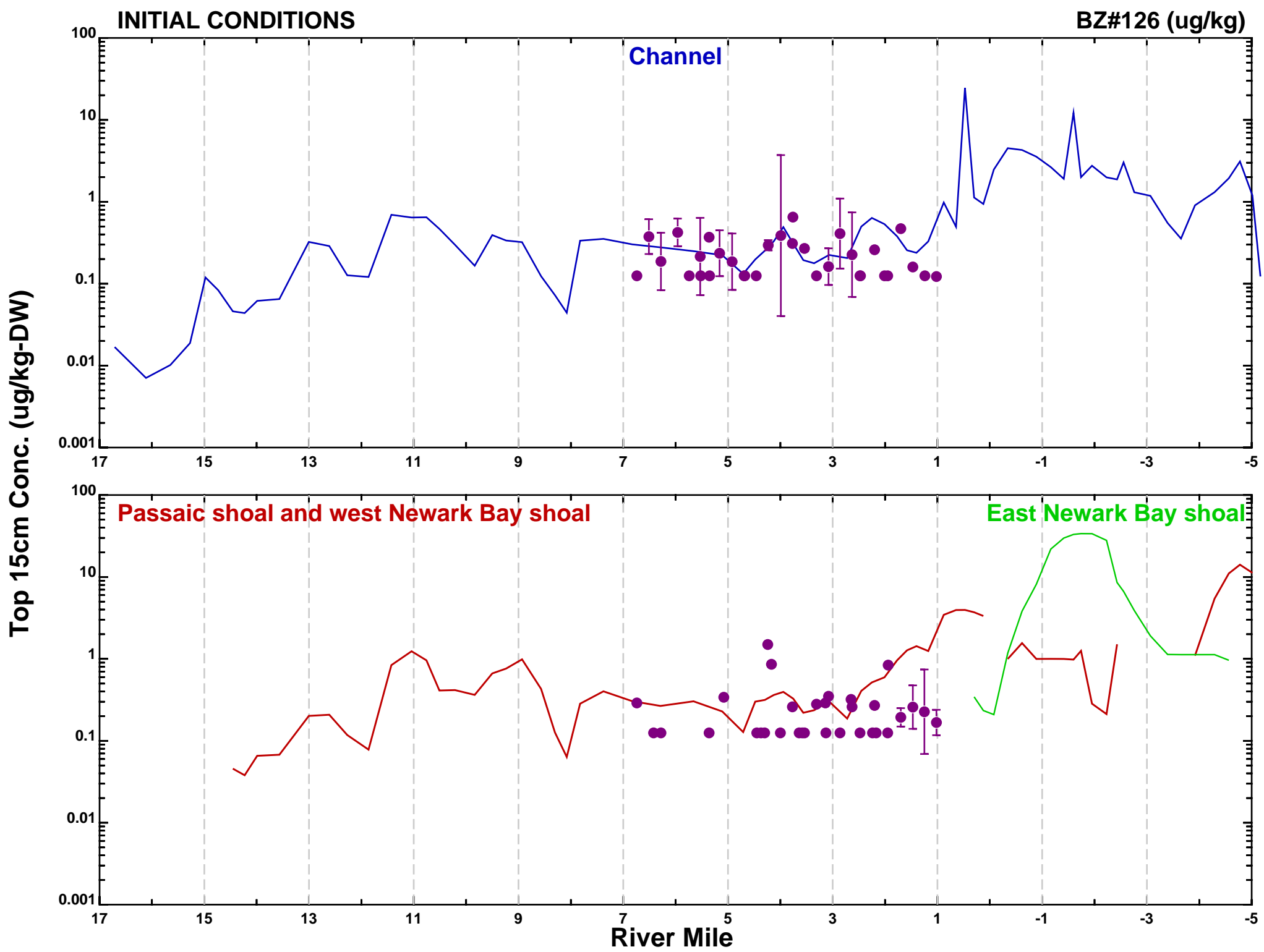
BZ#123 (ug/kg)



Passaic shoal and west Newark Bay shoal

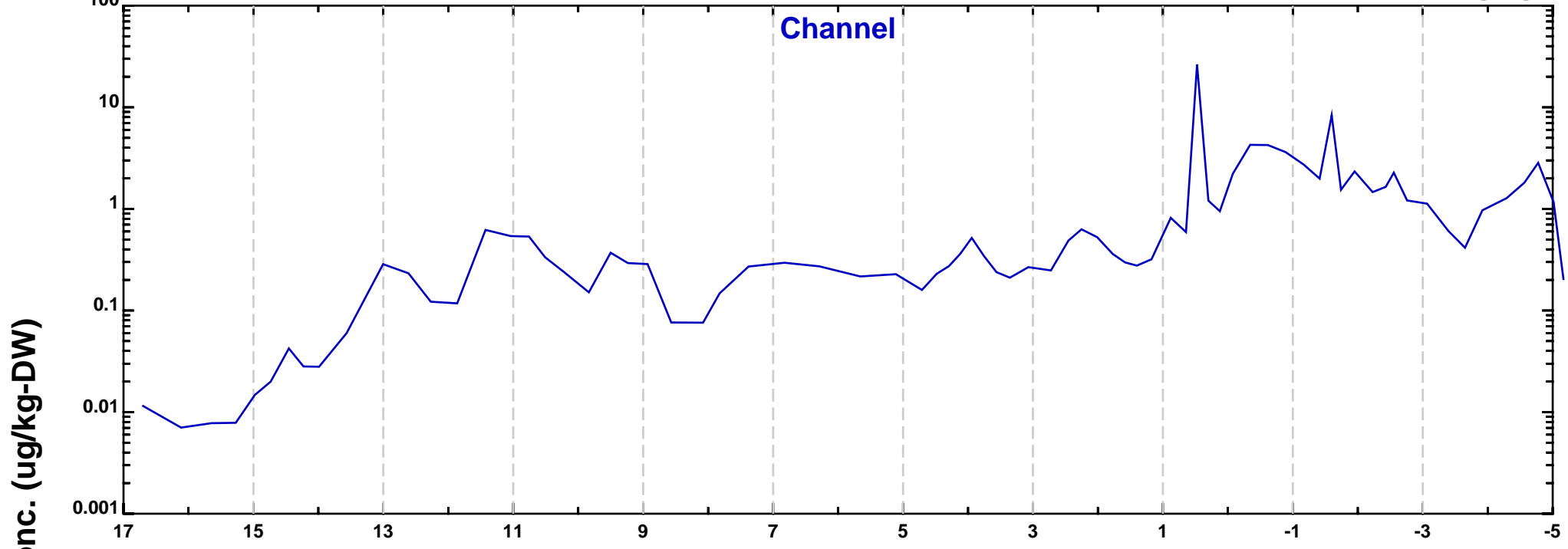
East Newark Bay shoal





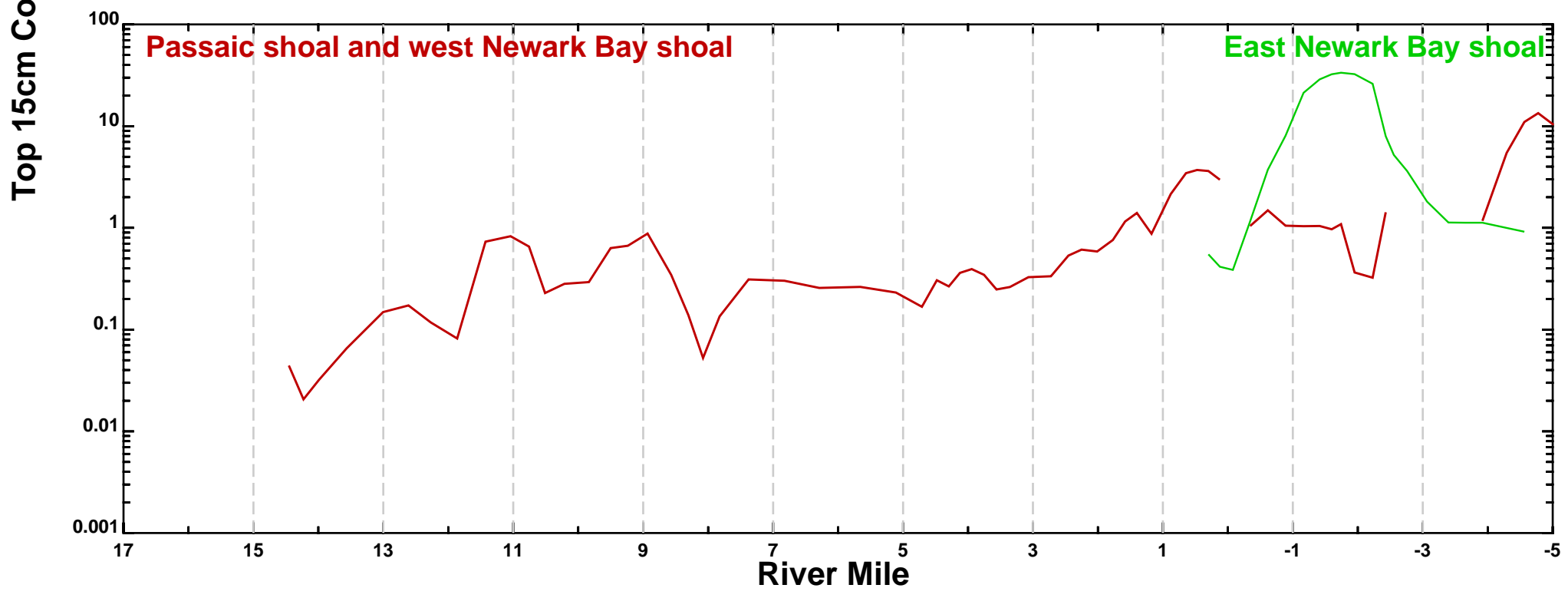
Year = 1996.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

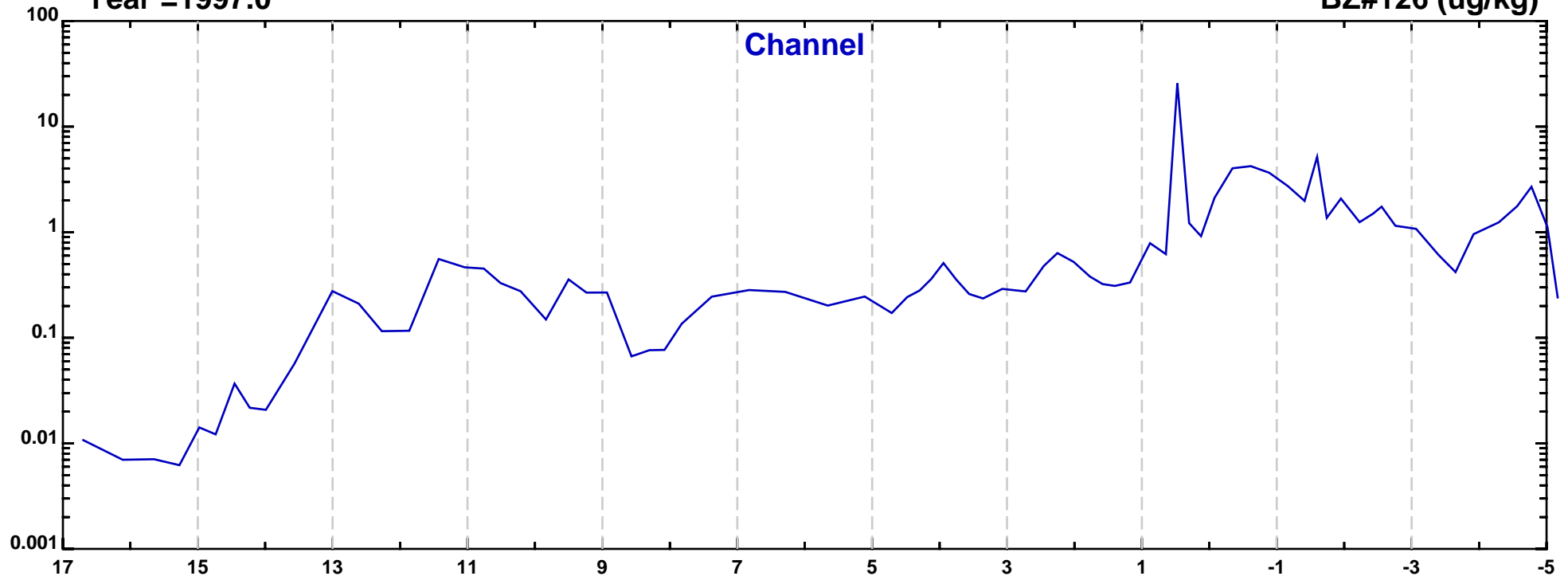


Year = 1997.0

BZ#126 (ug/kg)

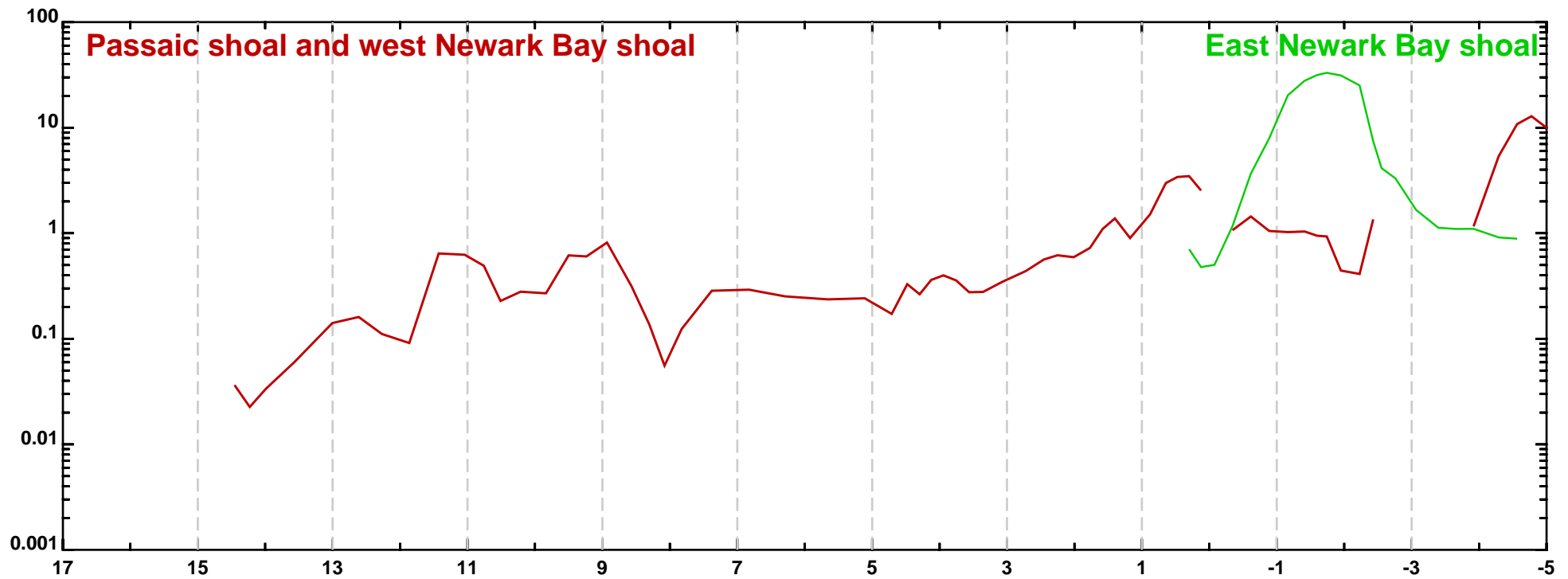
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

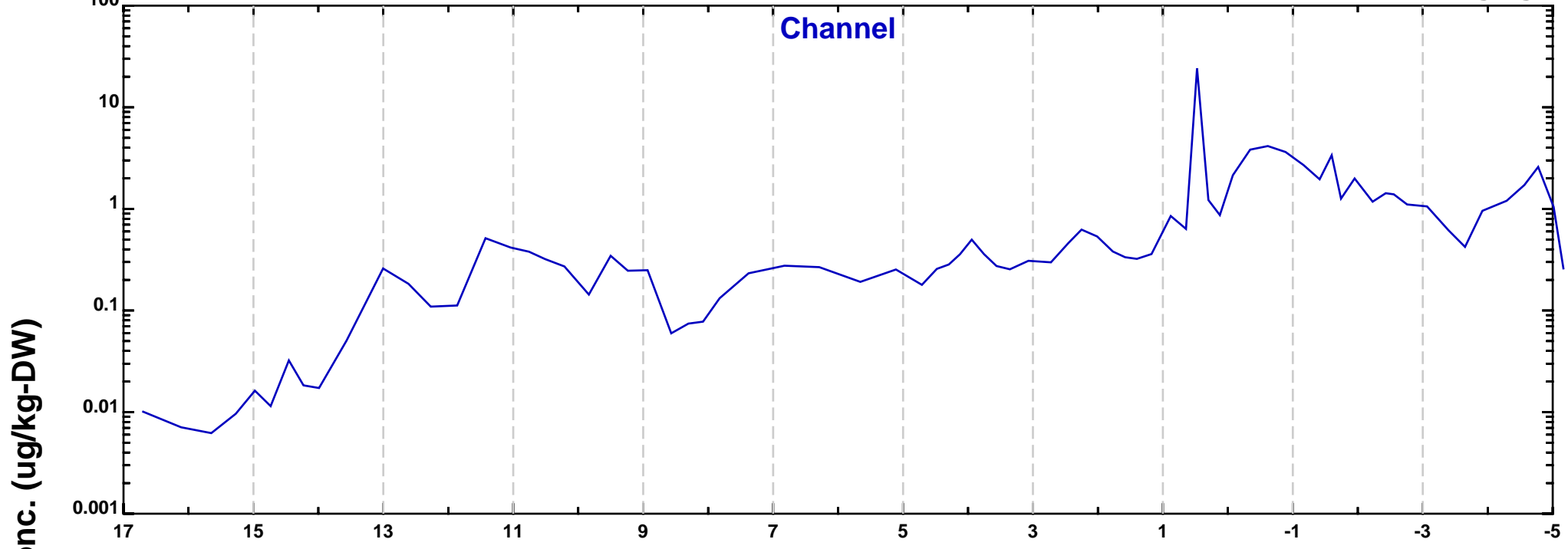
East Newark Bay shoal



River Mile

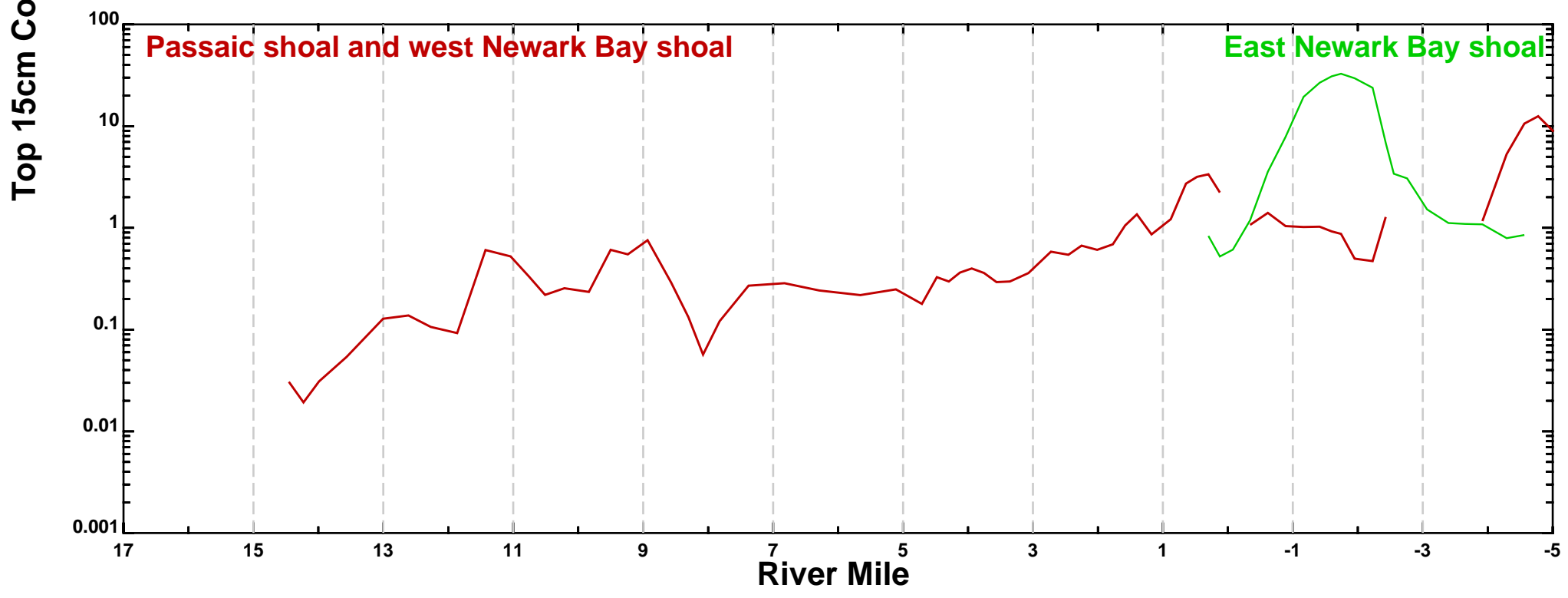
Year = 1998.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



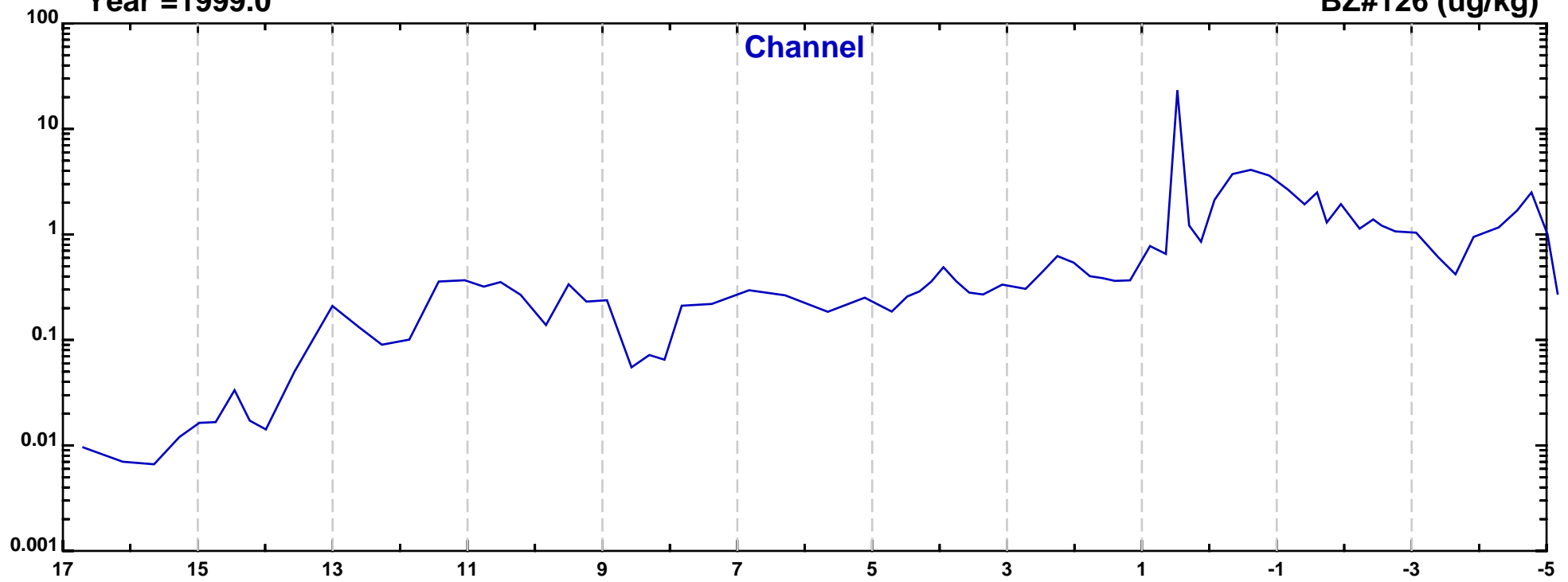
River Mile

Year = 1999.0

BZ#126 (ug/kg)

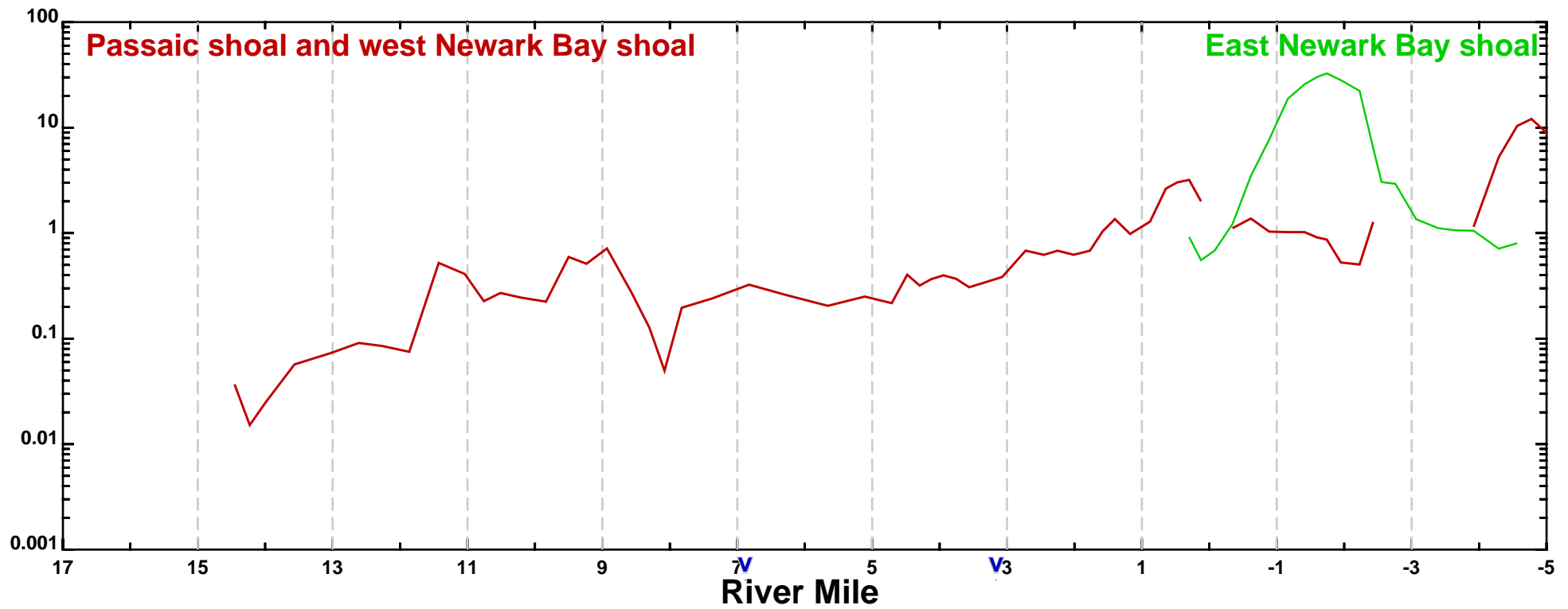
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

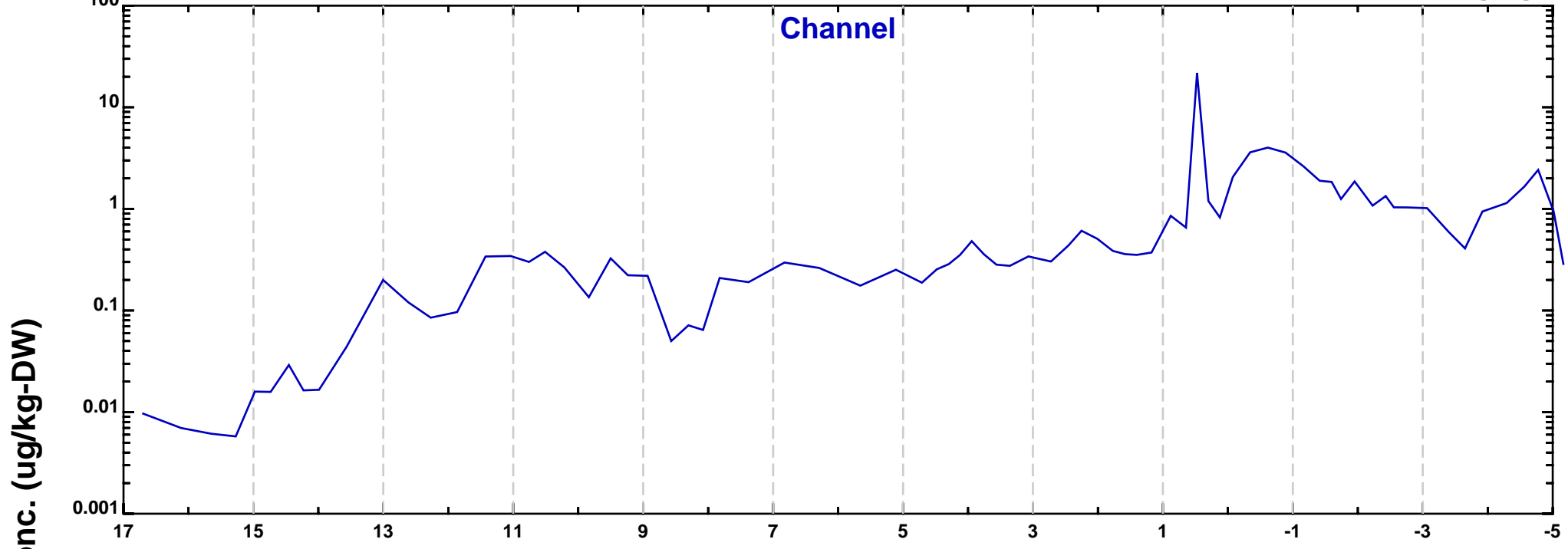
East Newark Bay shoal



River Mile

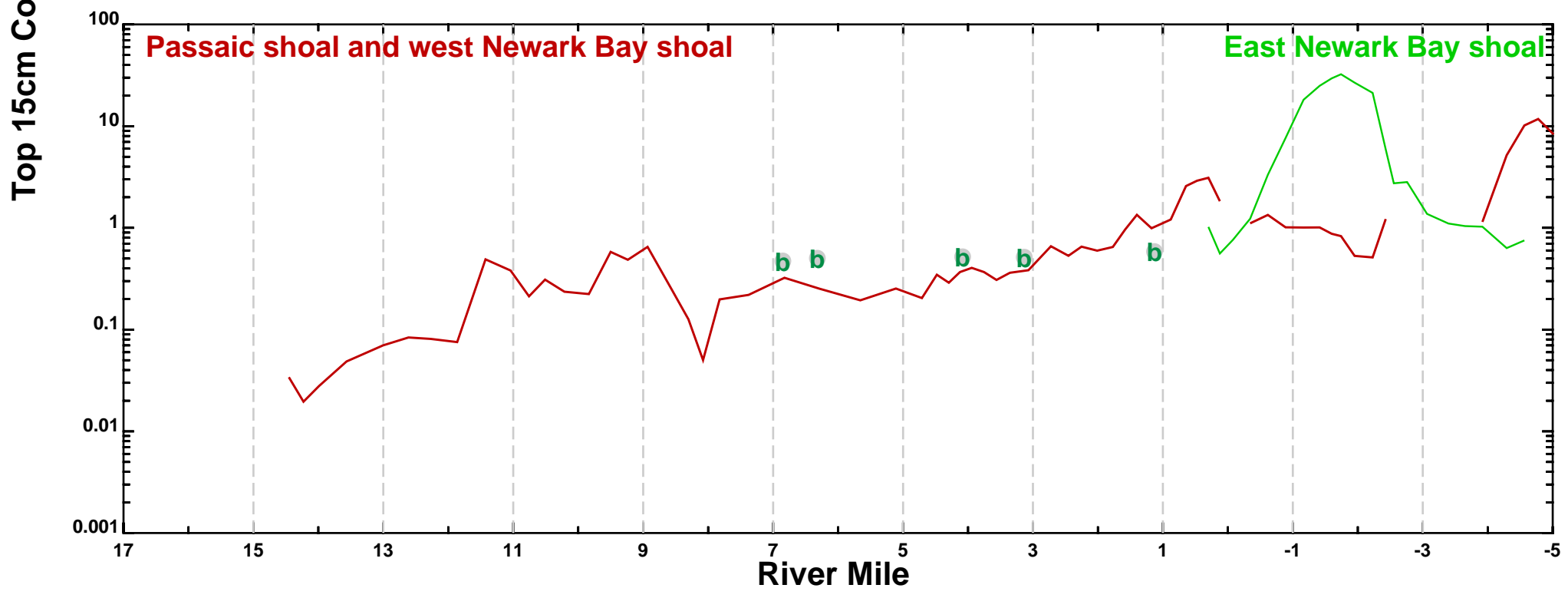
Year =2000.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

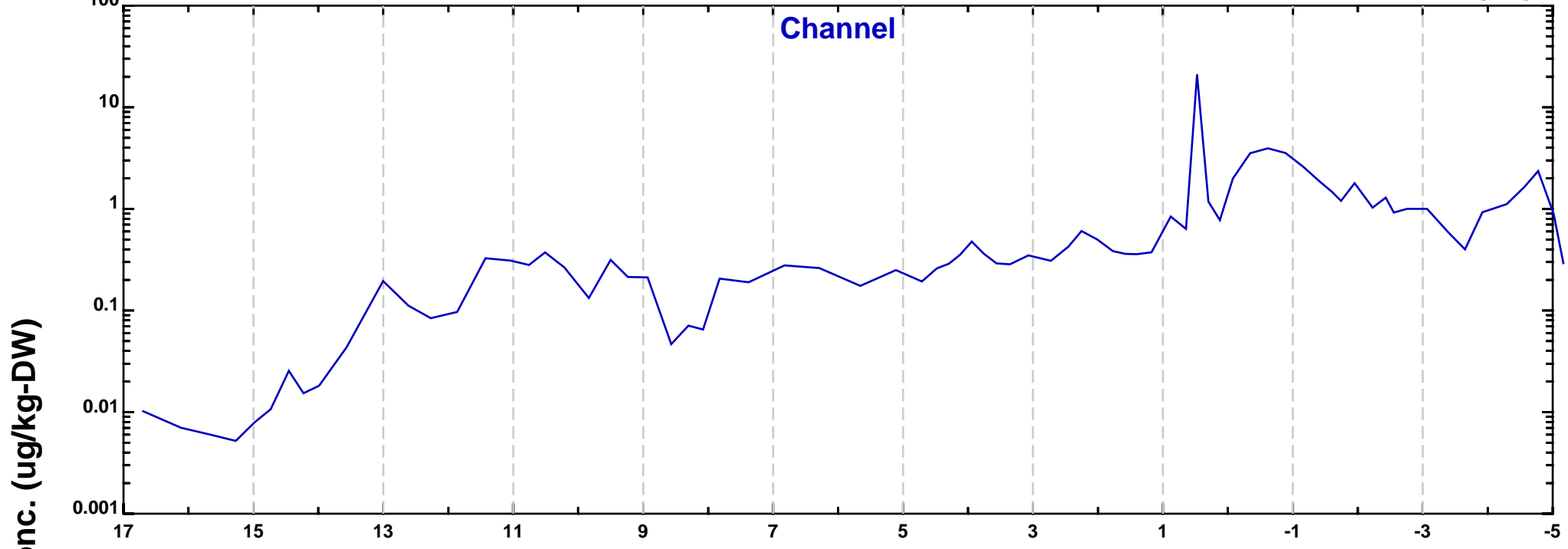
East Newark Bay shoal



River Mile

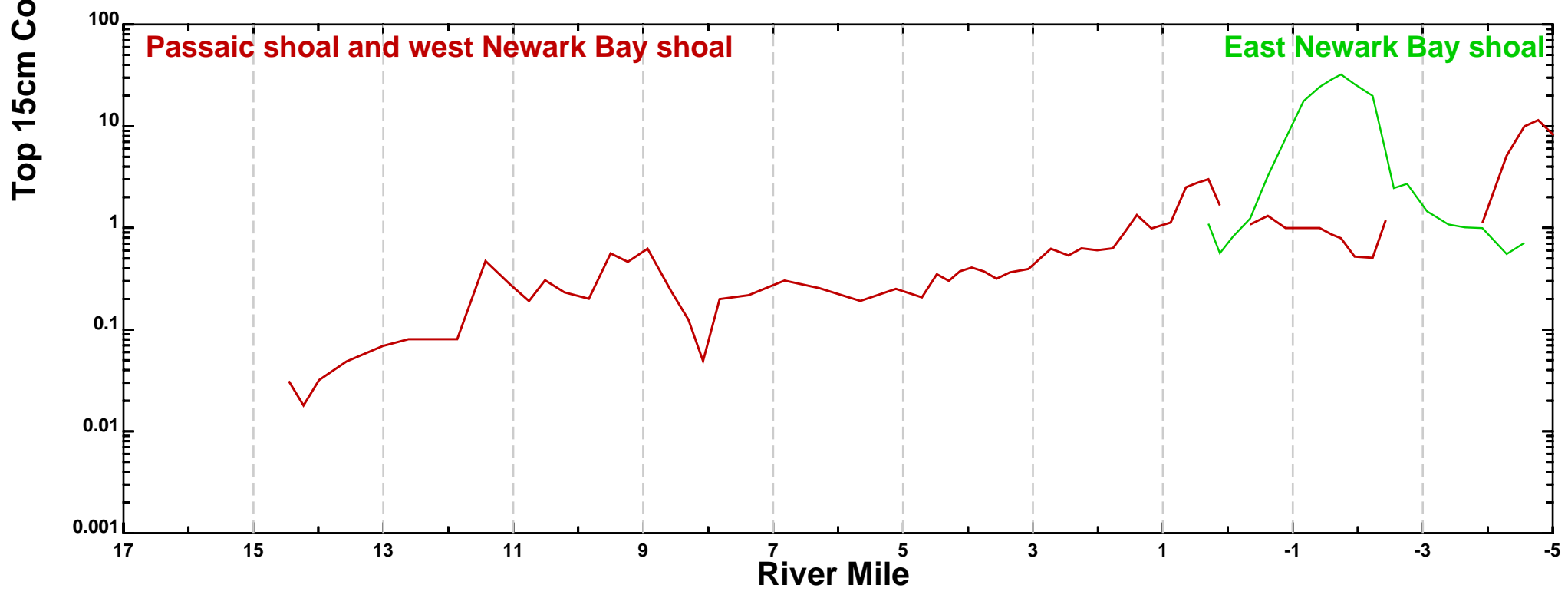
Year =2001.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

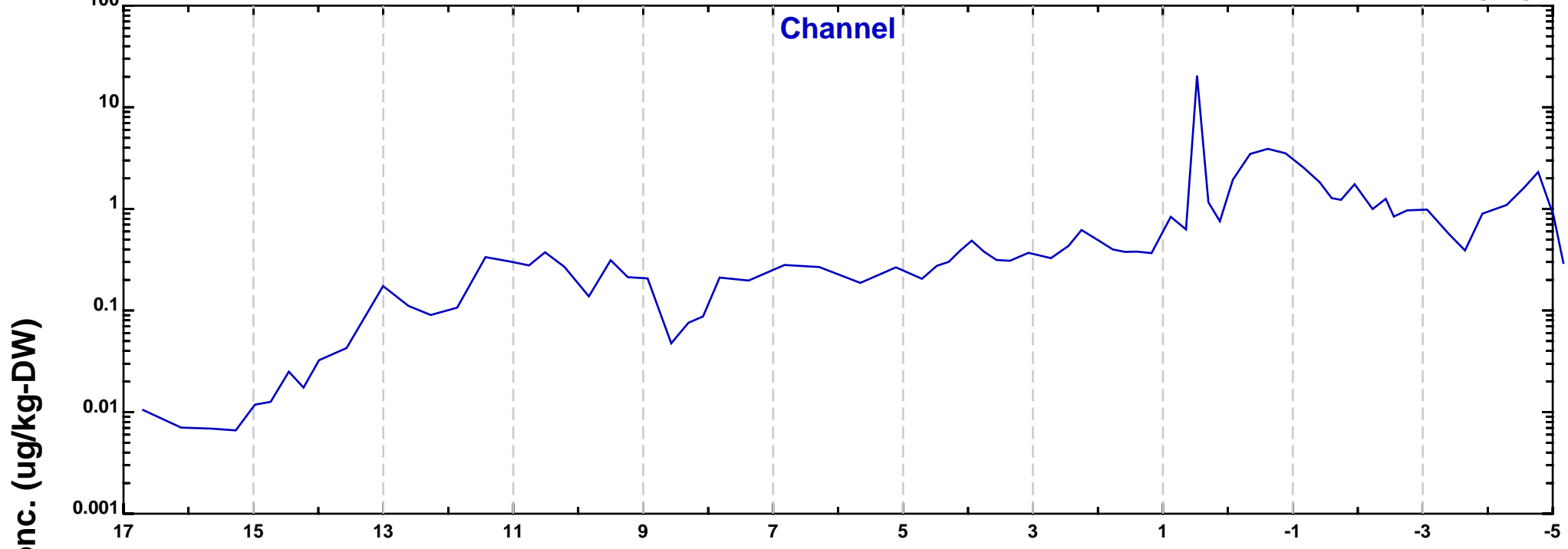


River Mile



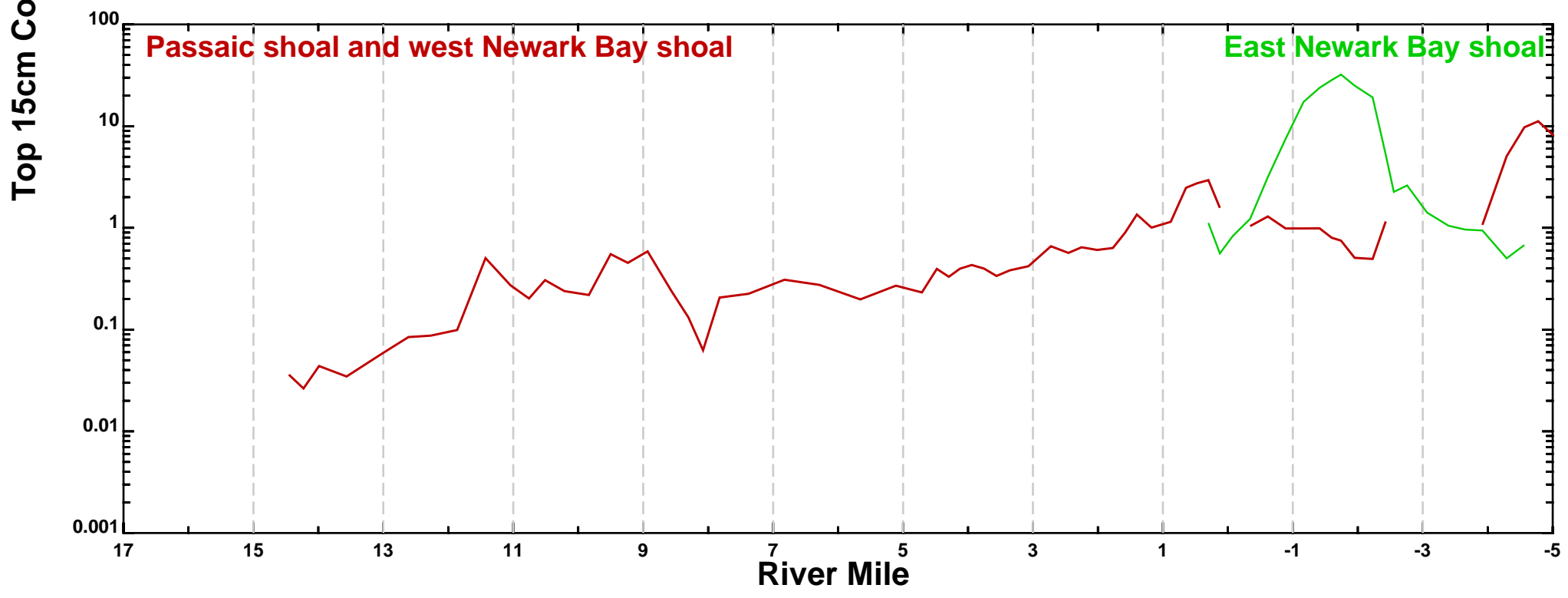
Year =2002.0

BZ#126 (ug/kg)



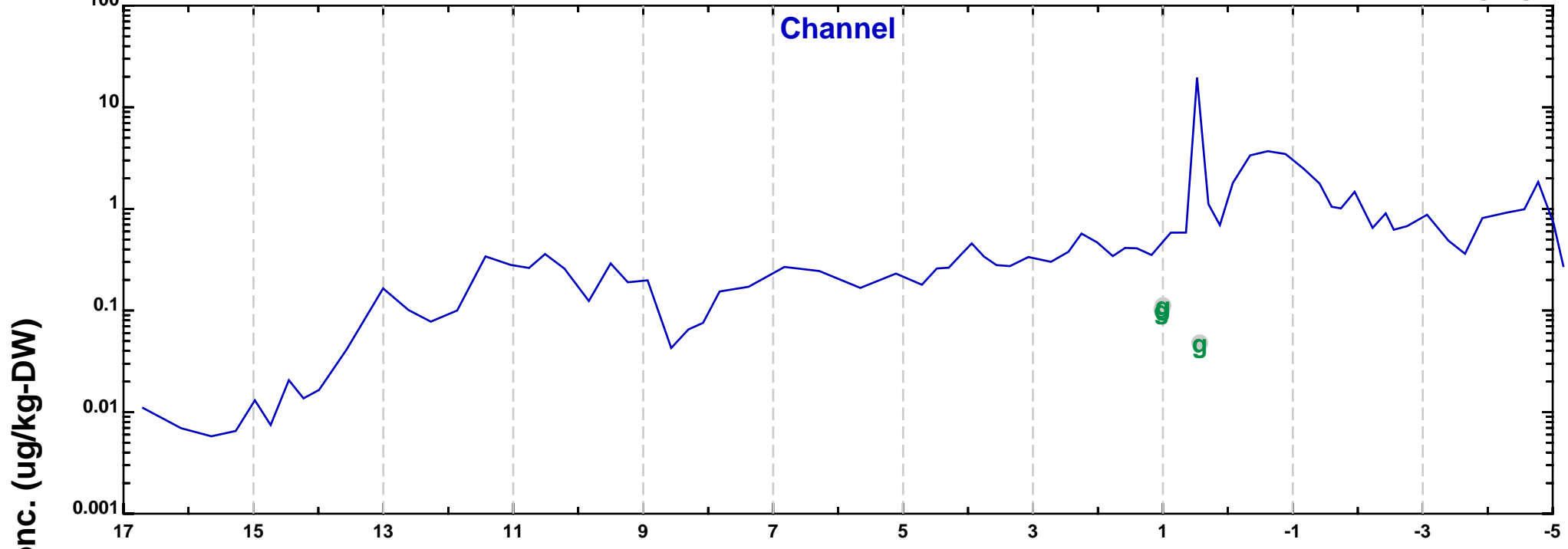
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



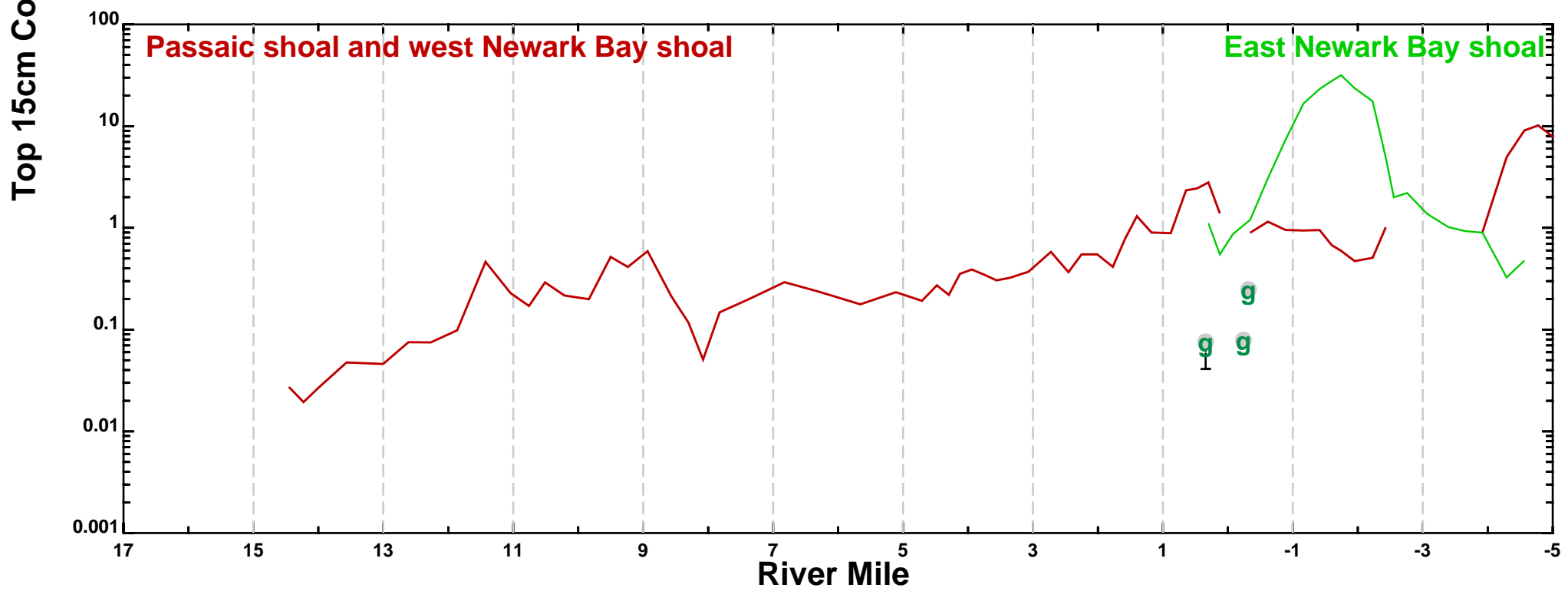
Year =2003.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

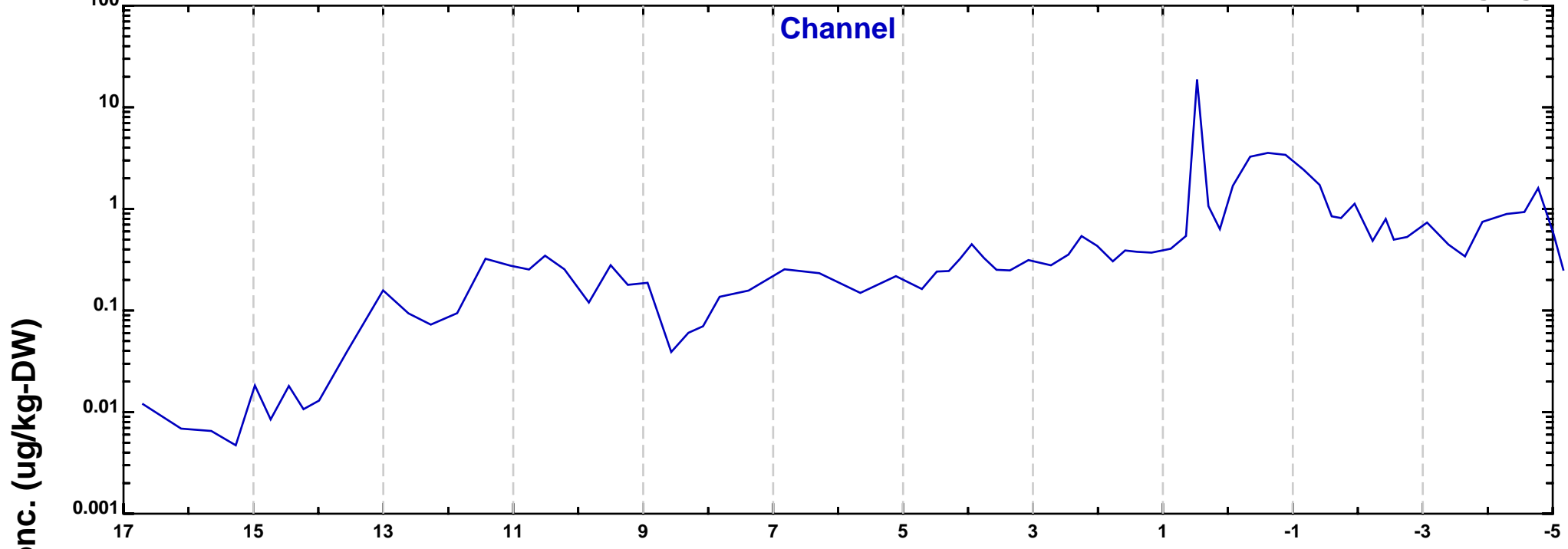
East Newark Bay shoal



River Mile

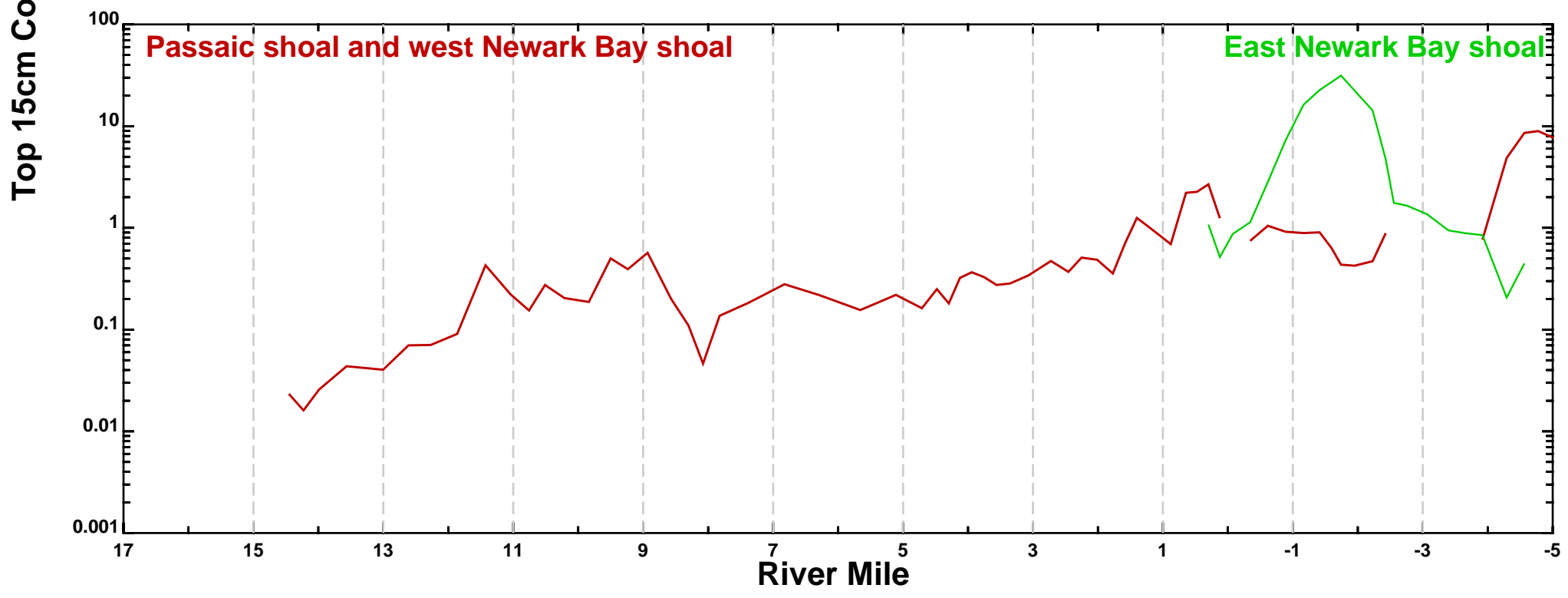
Year =2004.0

BZ#126 (ug/kg)



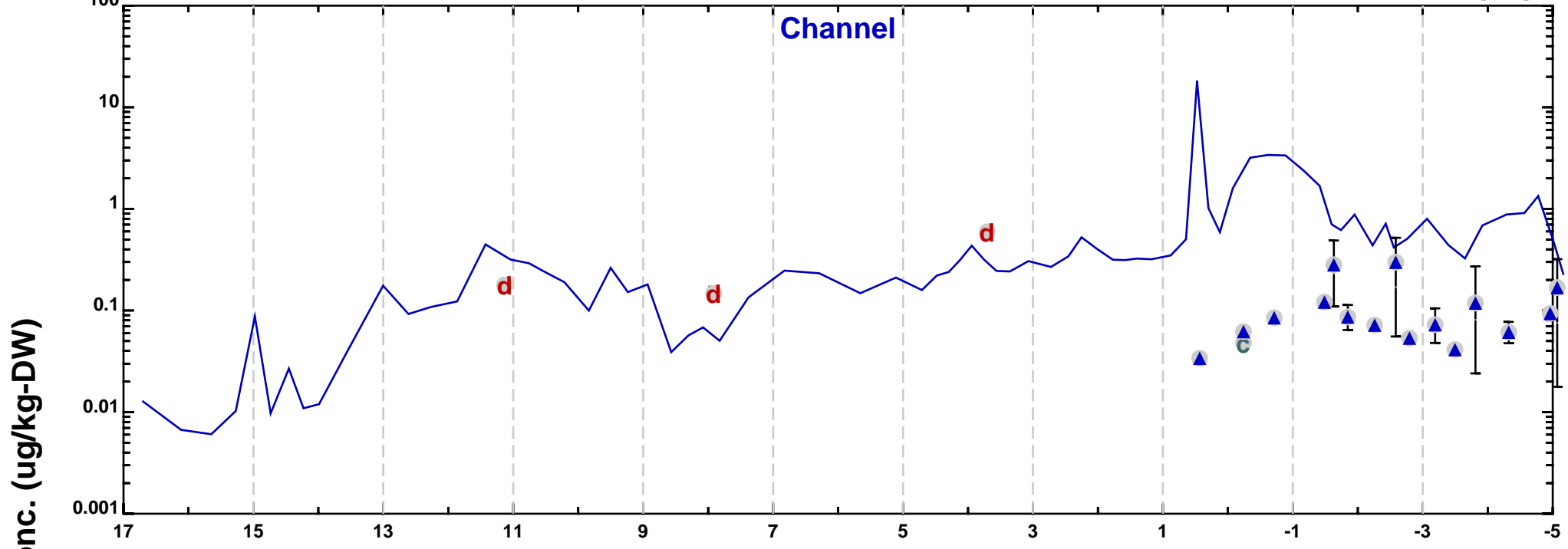
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



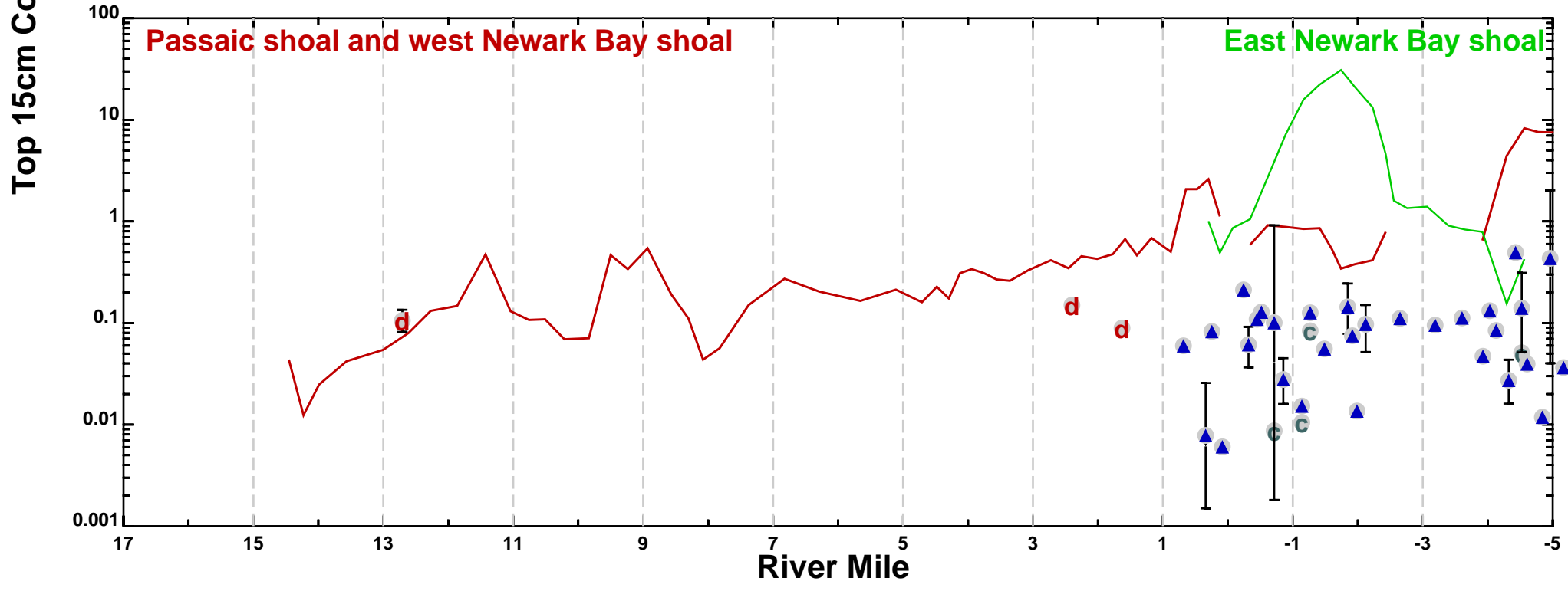
Year =2005.0

BZ#126 (ug/kg)



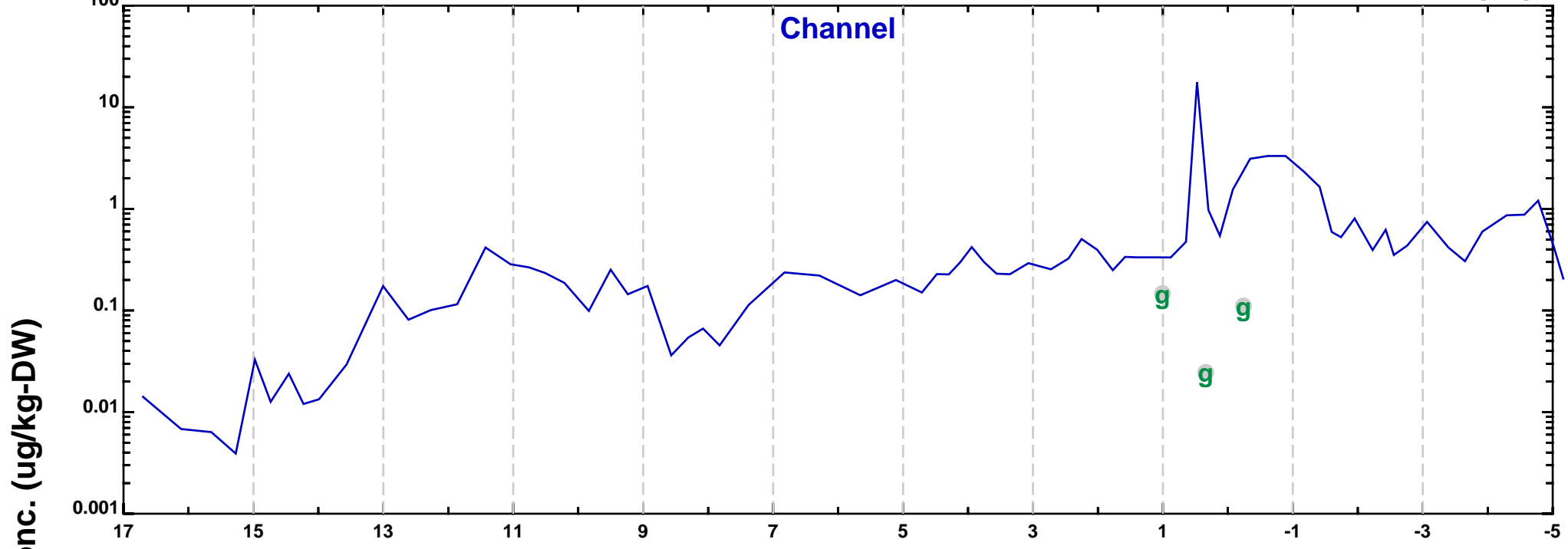
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



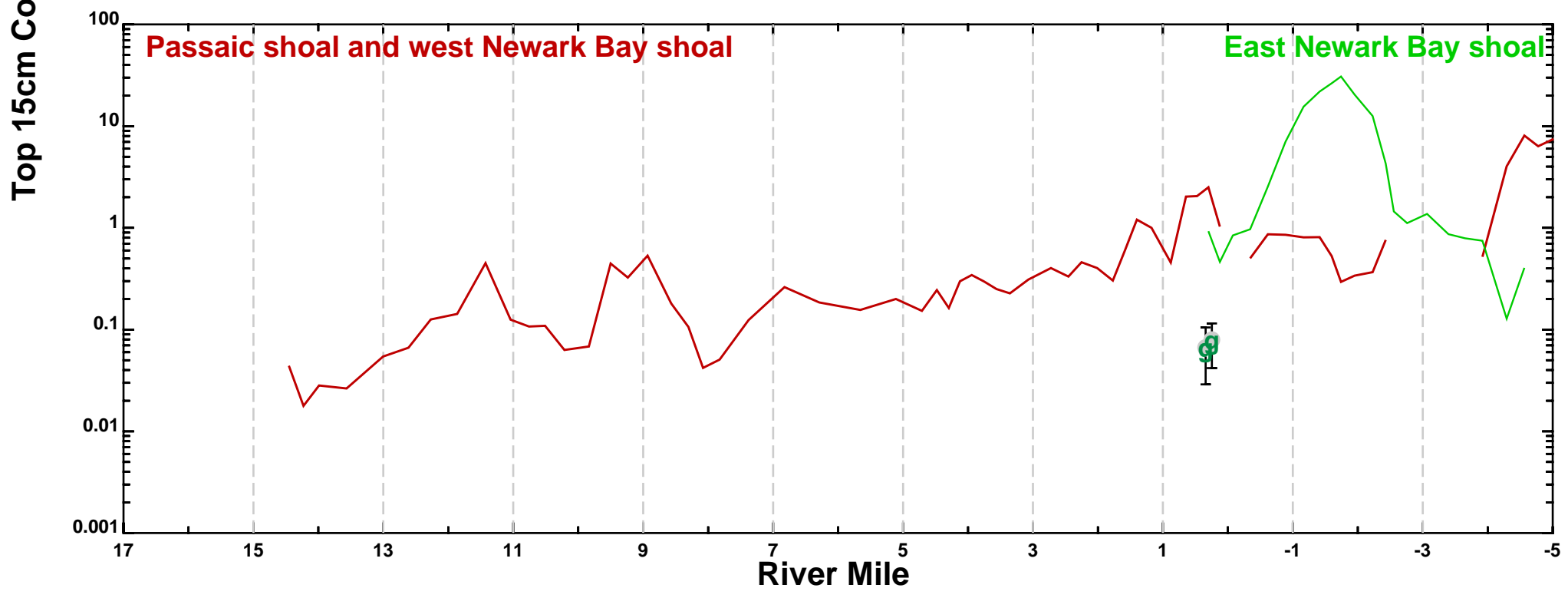
Year =2006.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

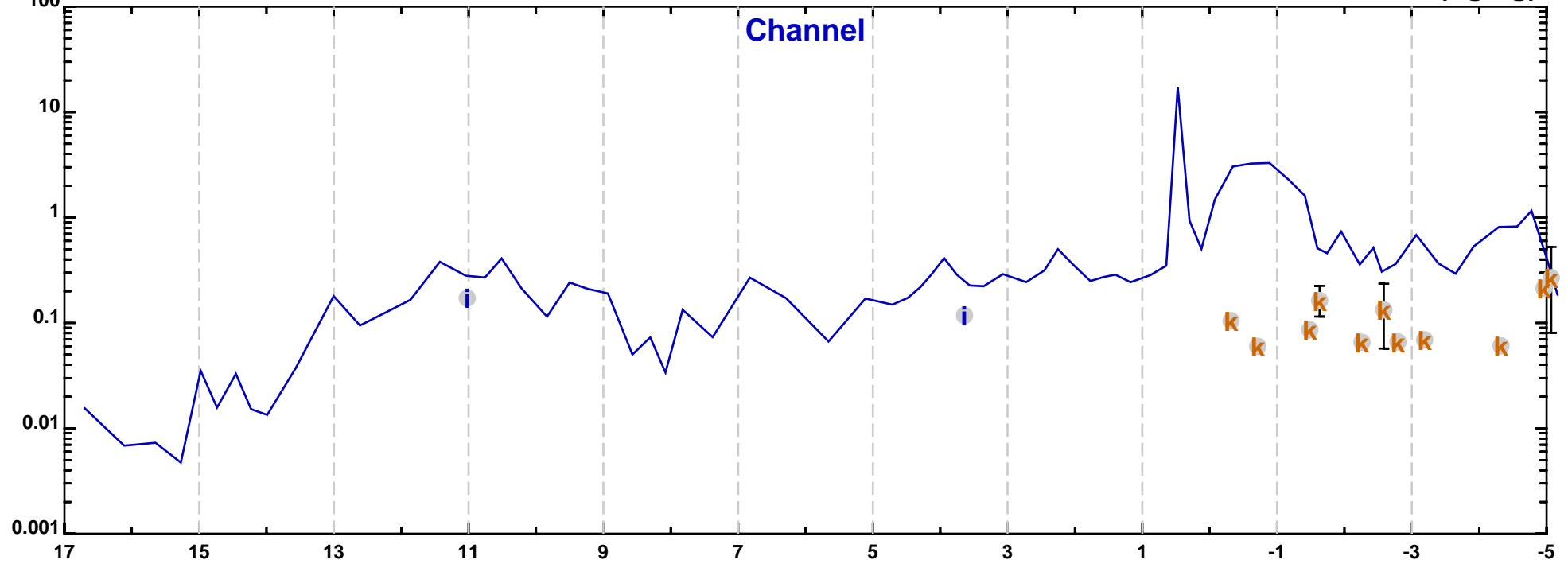
East Newark Bay shoal



Year =2007.0

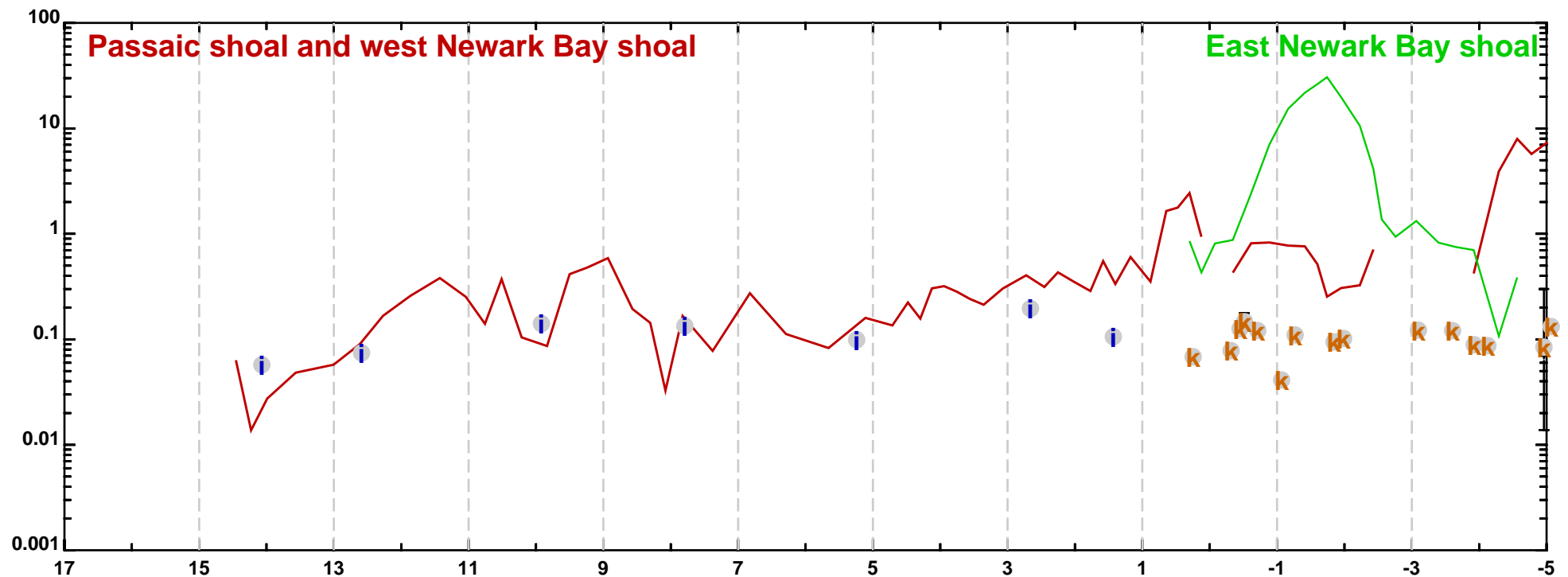
BZ#126 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



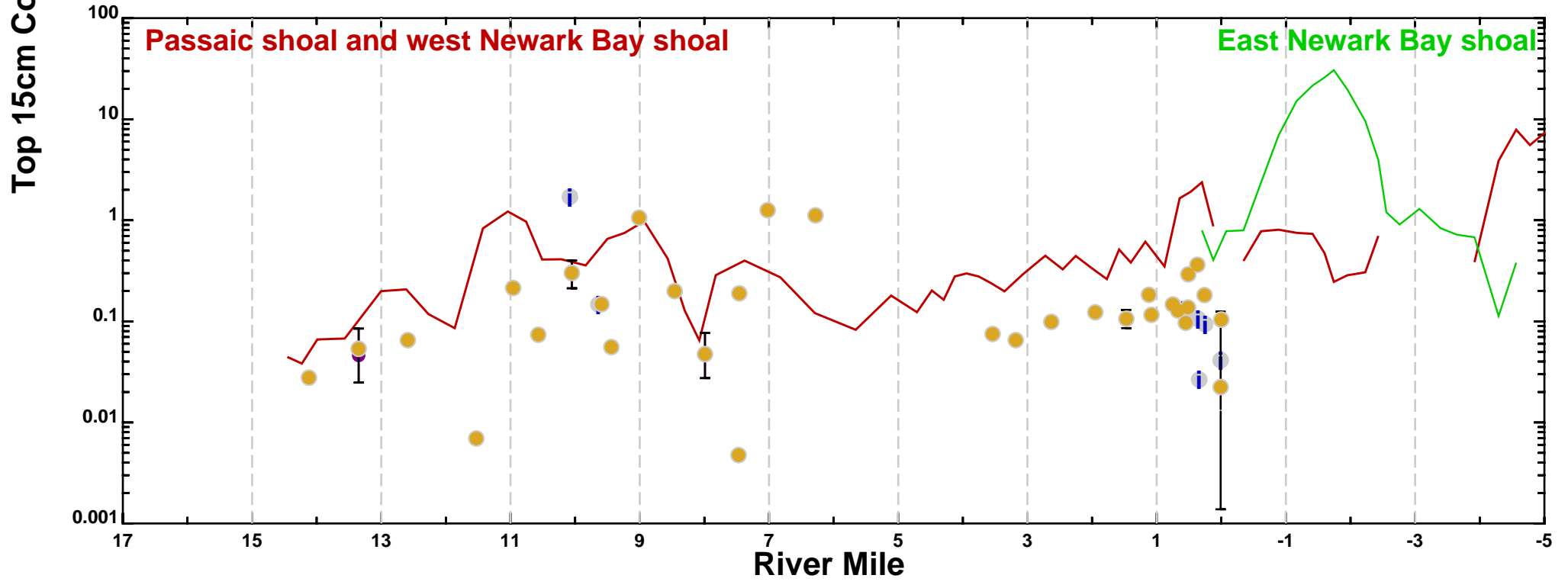
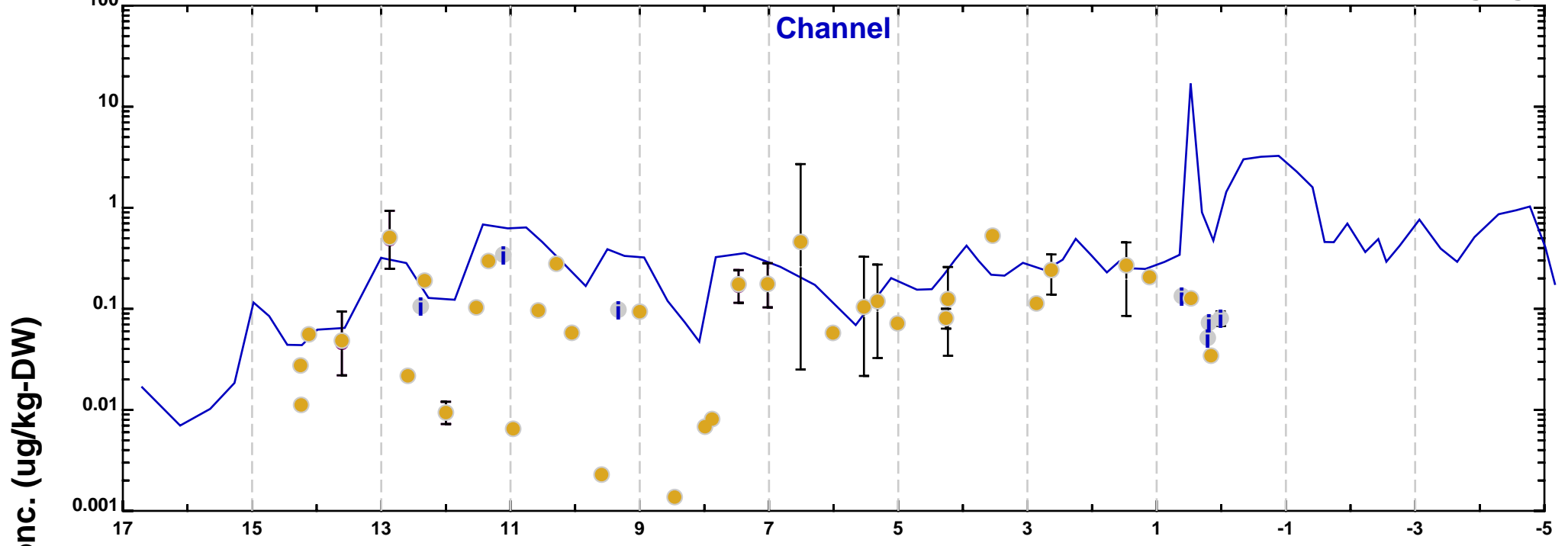
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



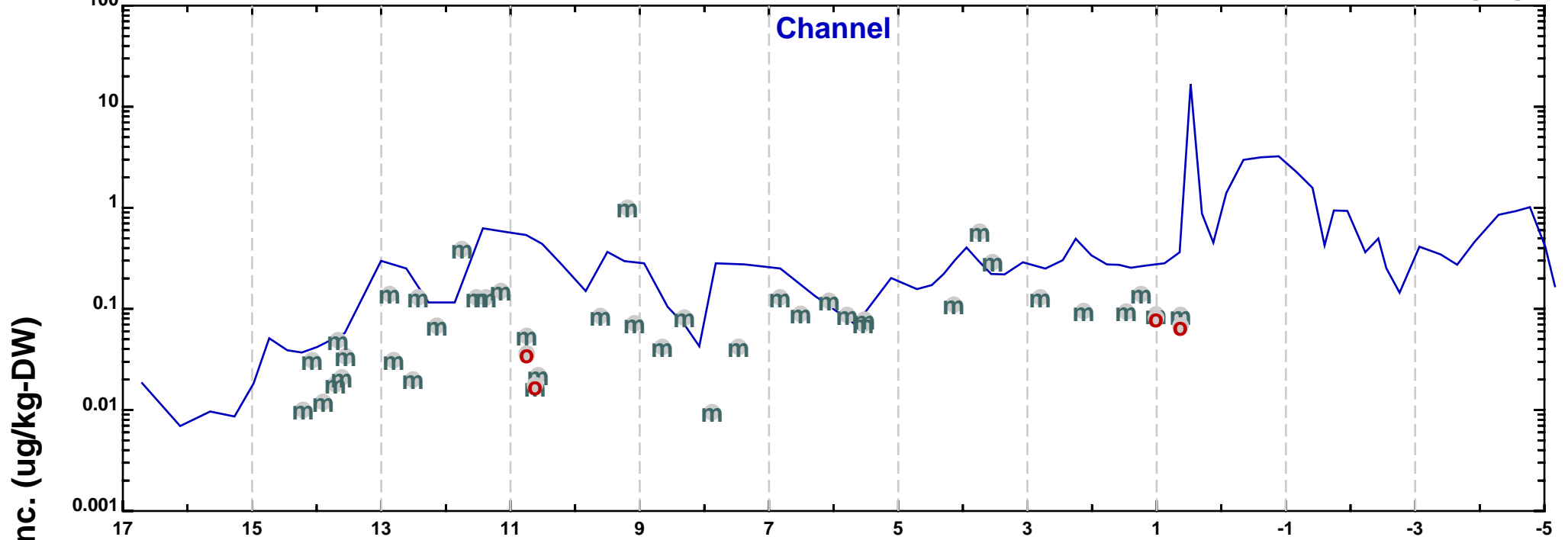
Year =2008.0

BZ#126 (ug/kg)



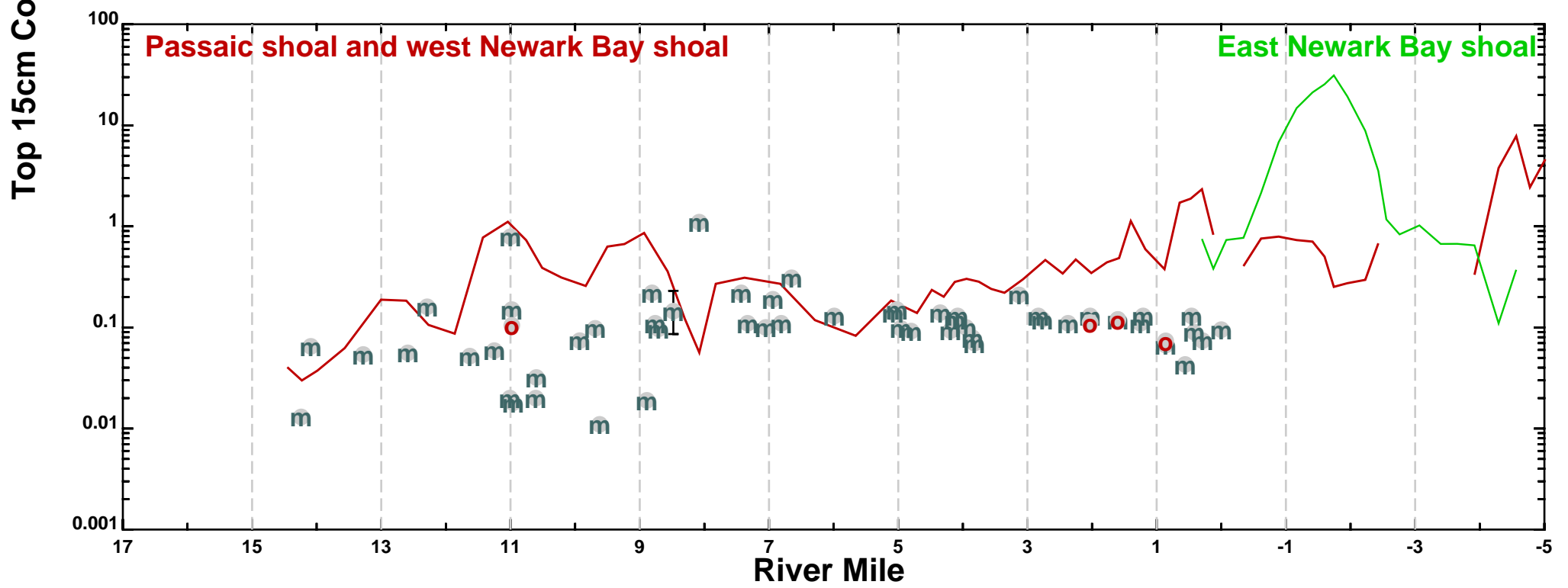
Year =2009.0

BZ#126 (ug/kg)



Passaic shoal and west Newark Bay shoal

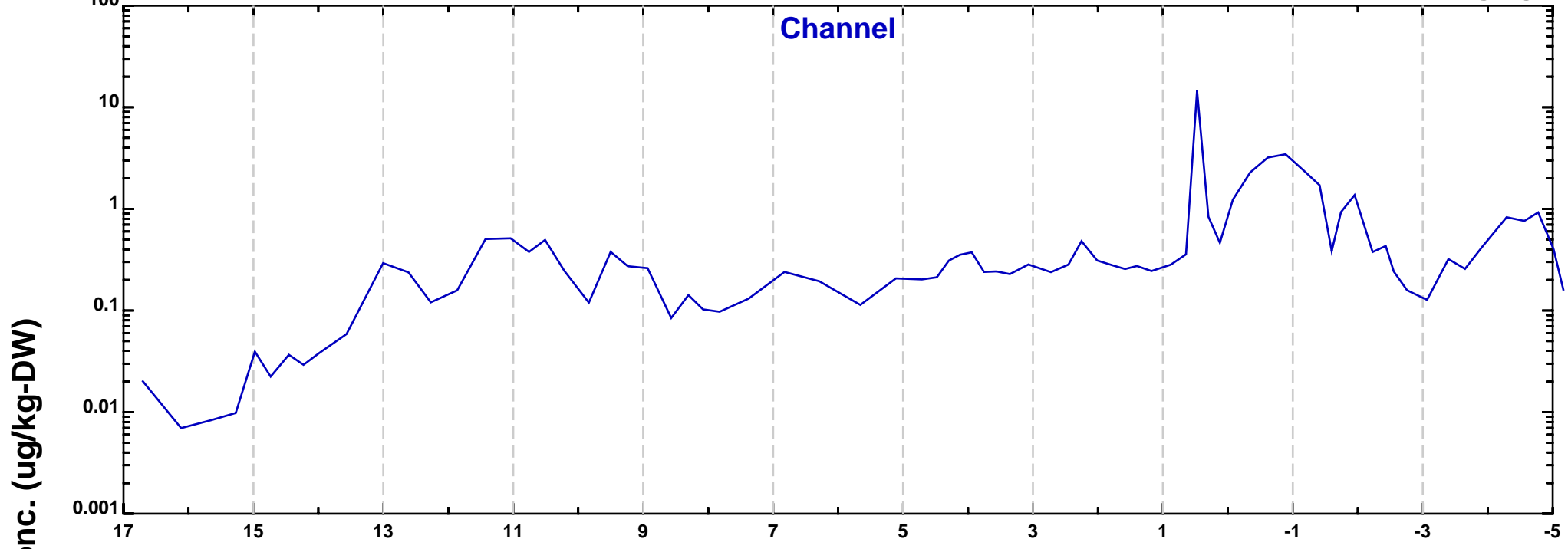
East Newark Bay shoal





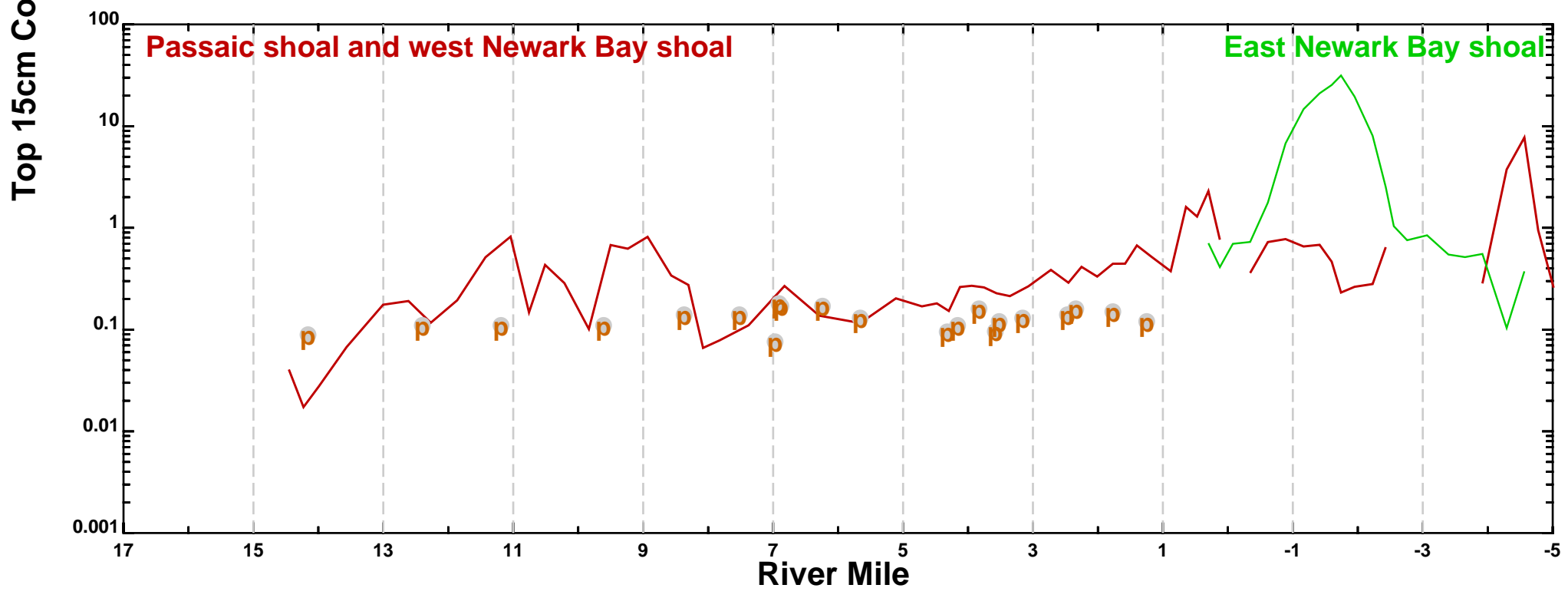
Year =2010.0

BZ#126 (ug/kg)



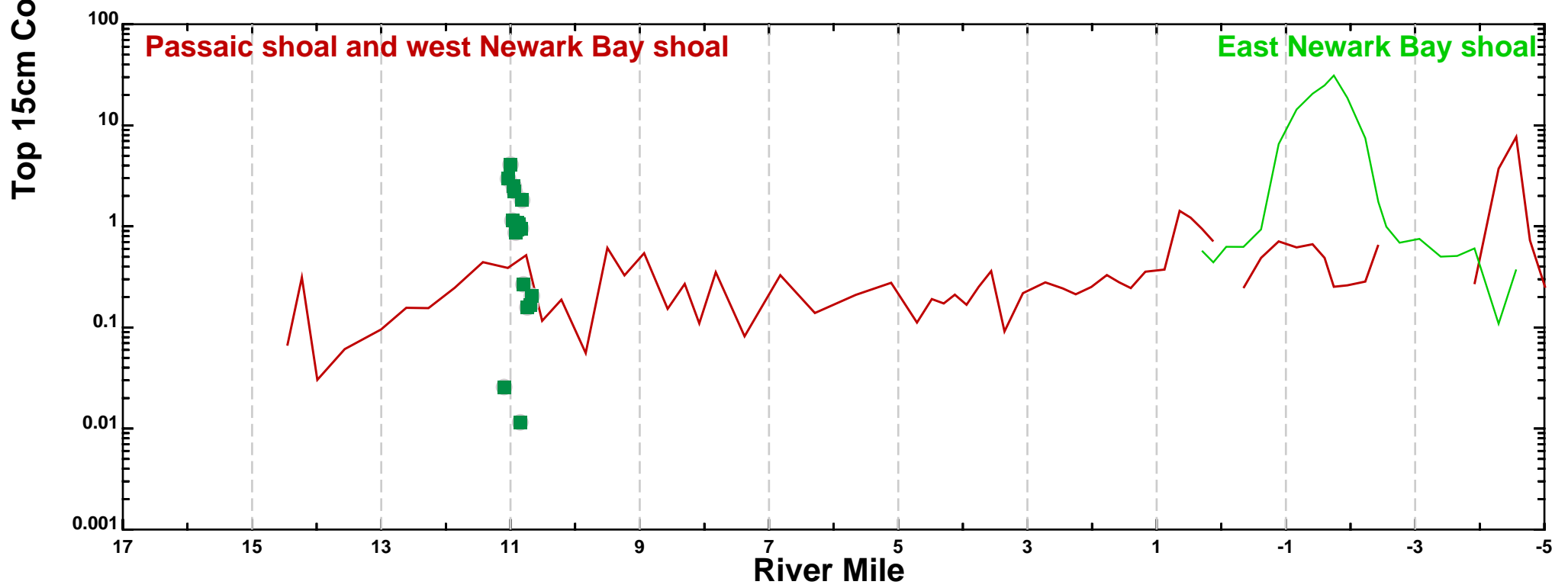
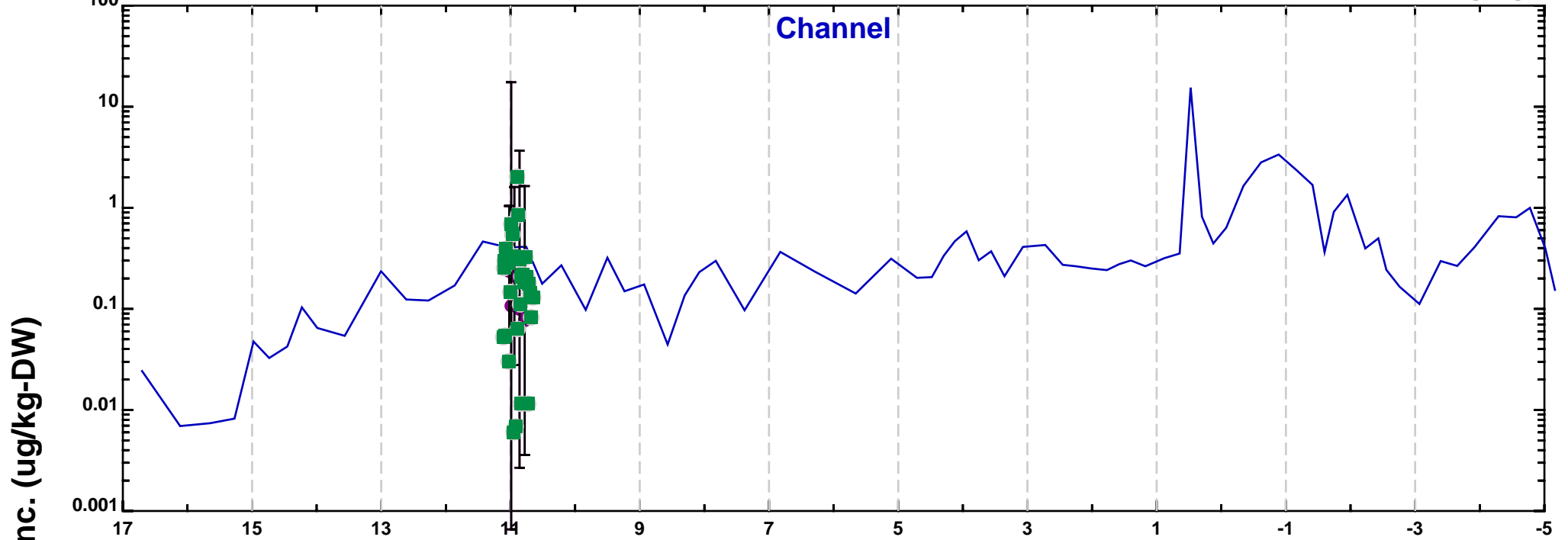
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2011.0

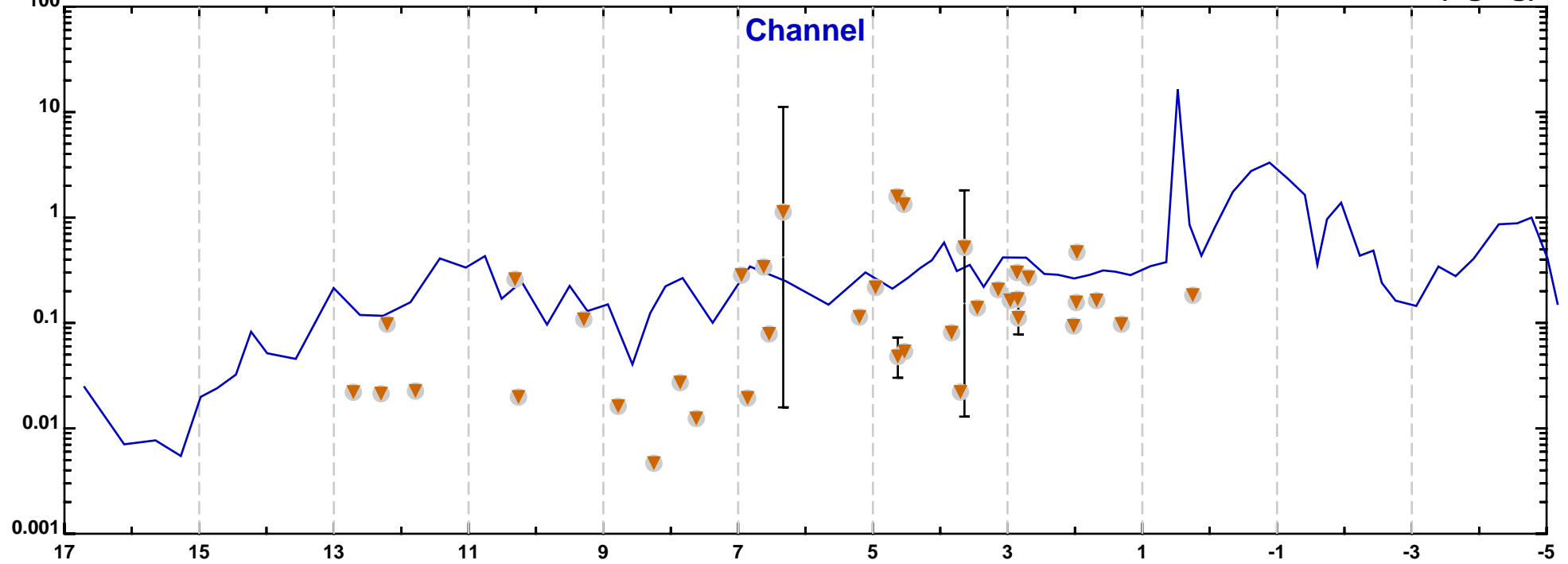
BZ#126 (ug/kg)



Year = 2012.0

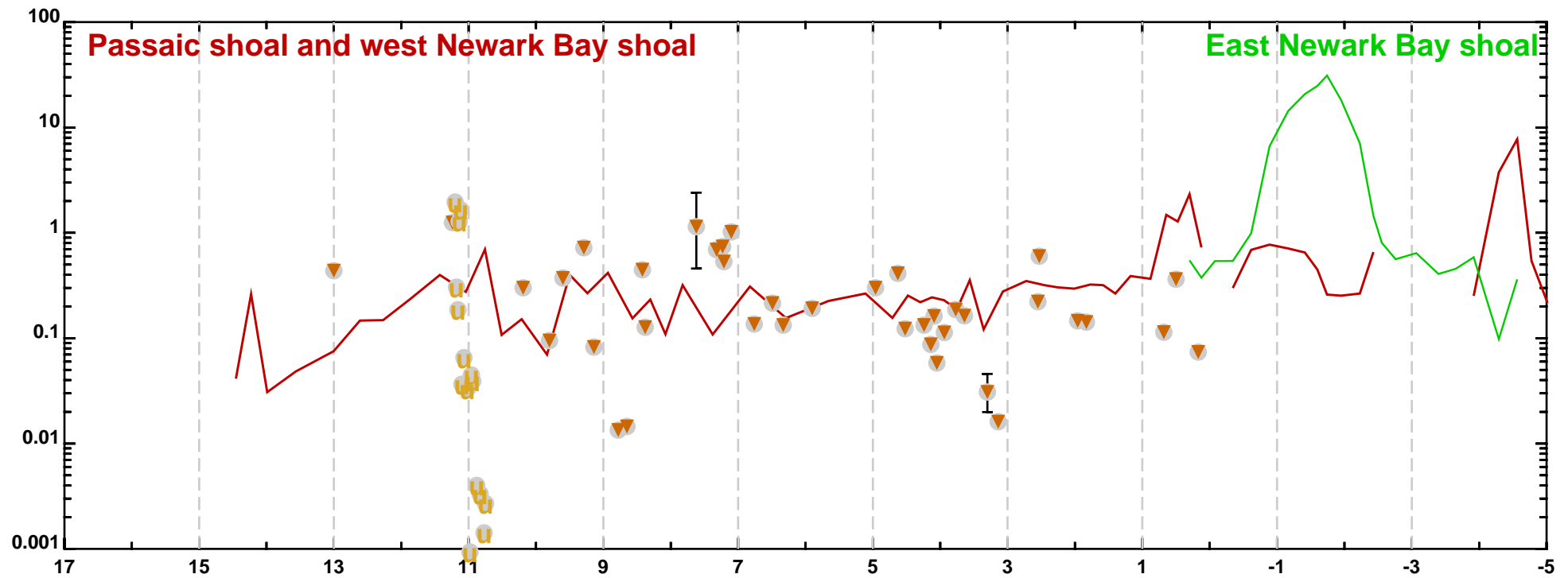
BZ#126 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

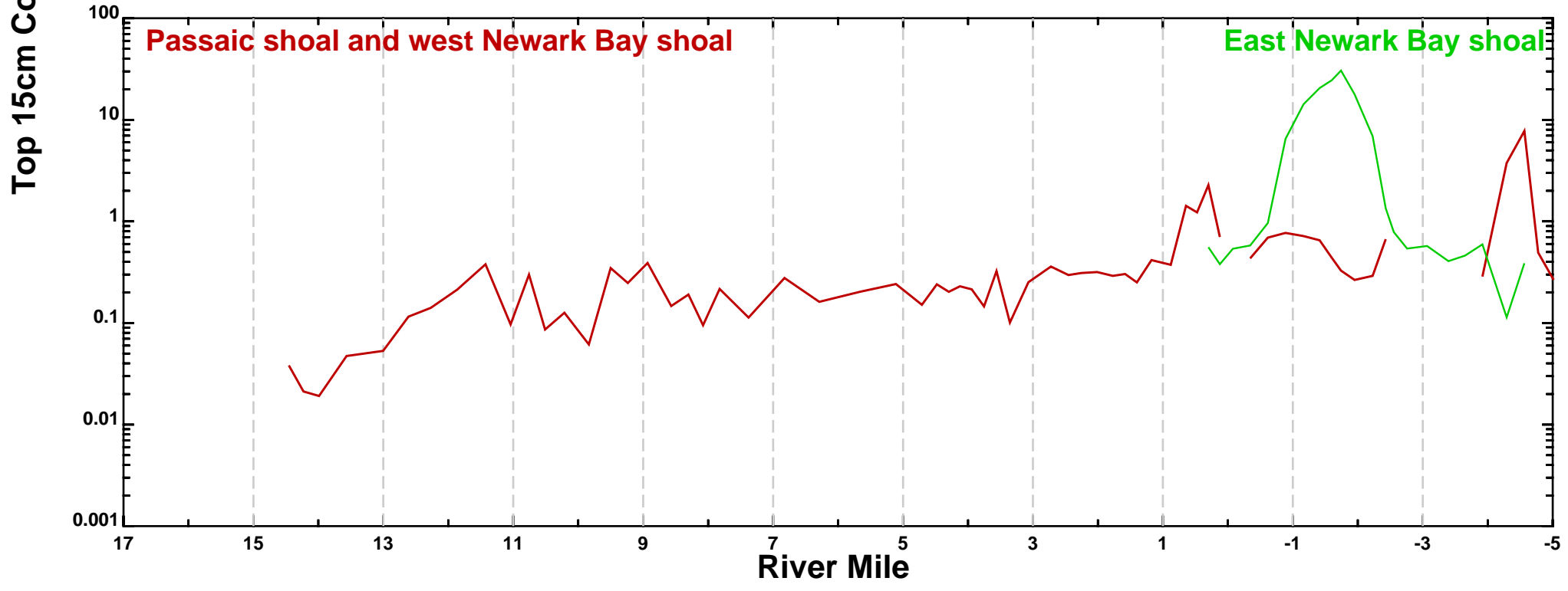
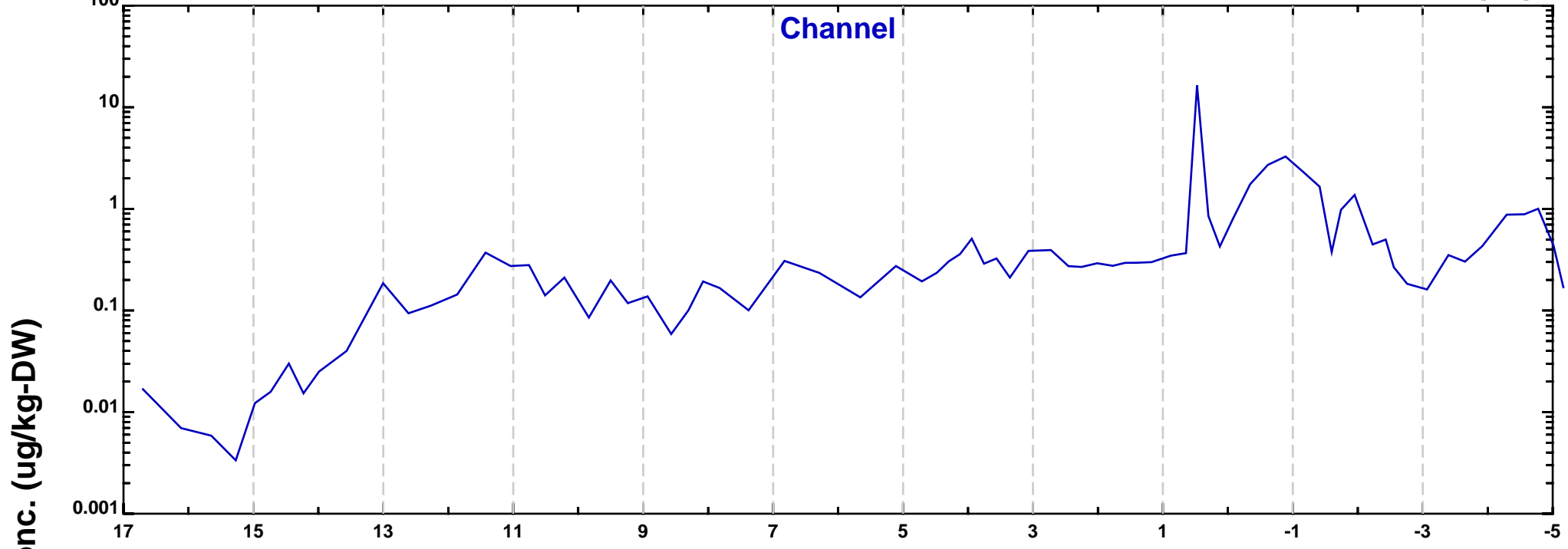
East Newark Bay shoal

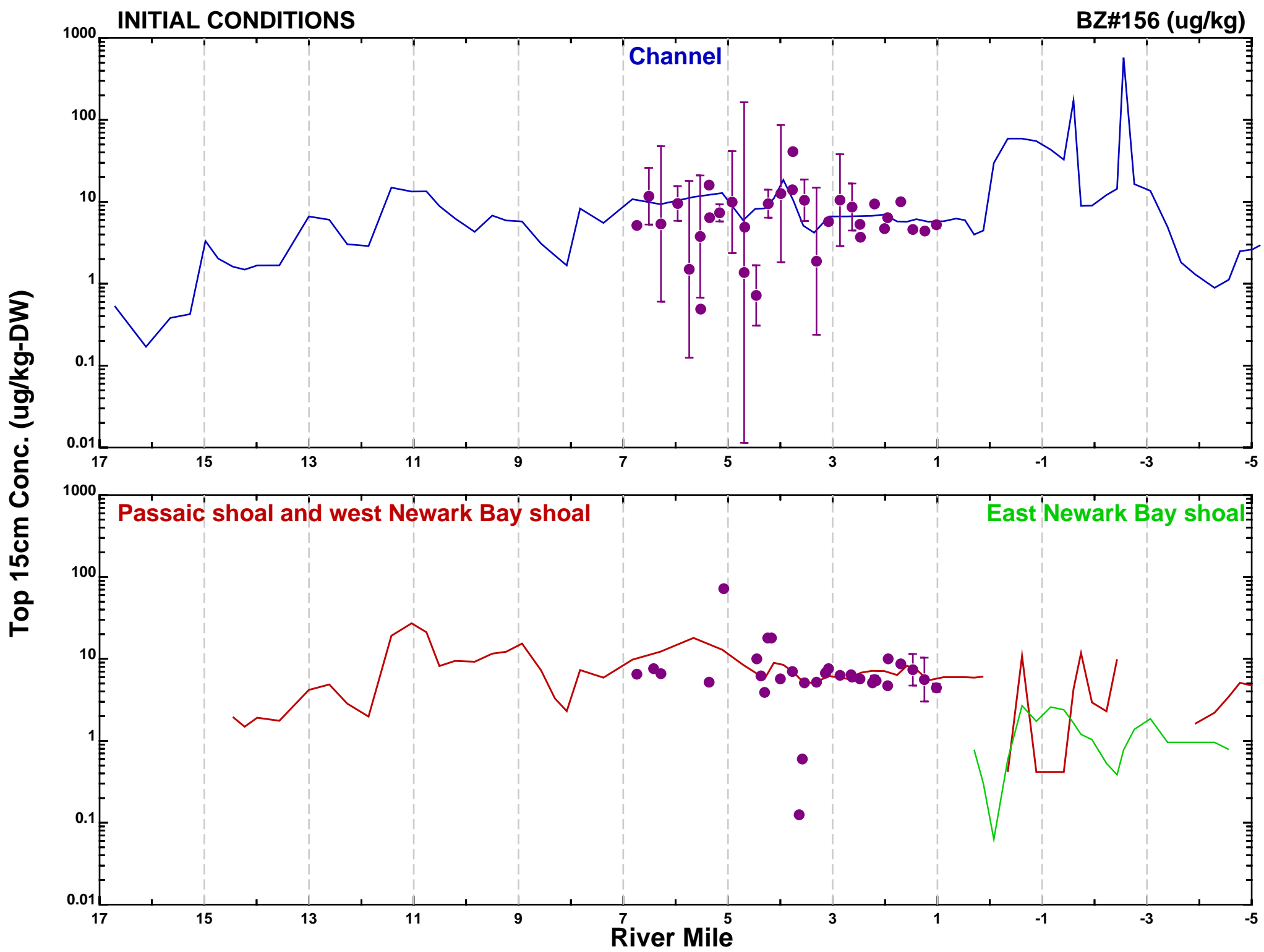


River Mile

Year = 2013.0

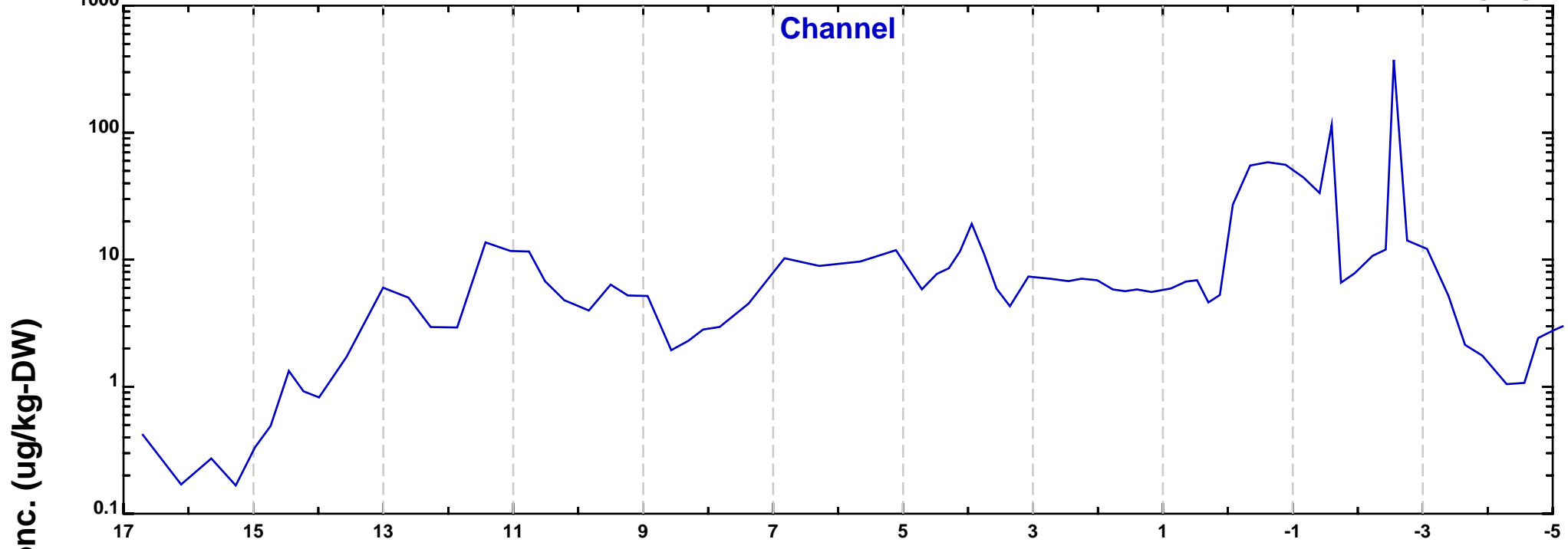
BZ#126 (ug/kg)





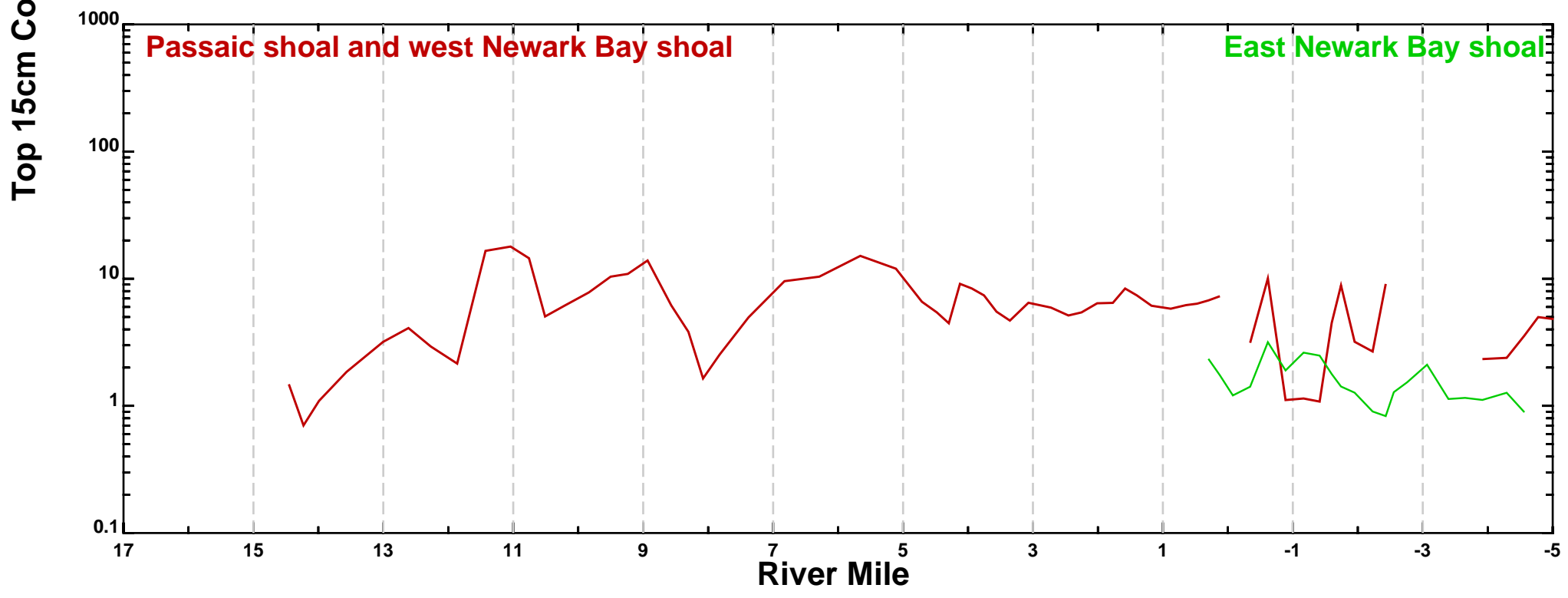
Year = 1996.0

BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

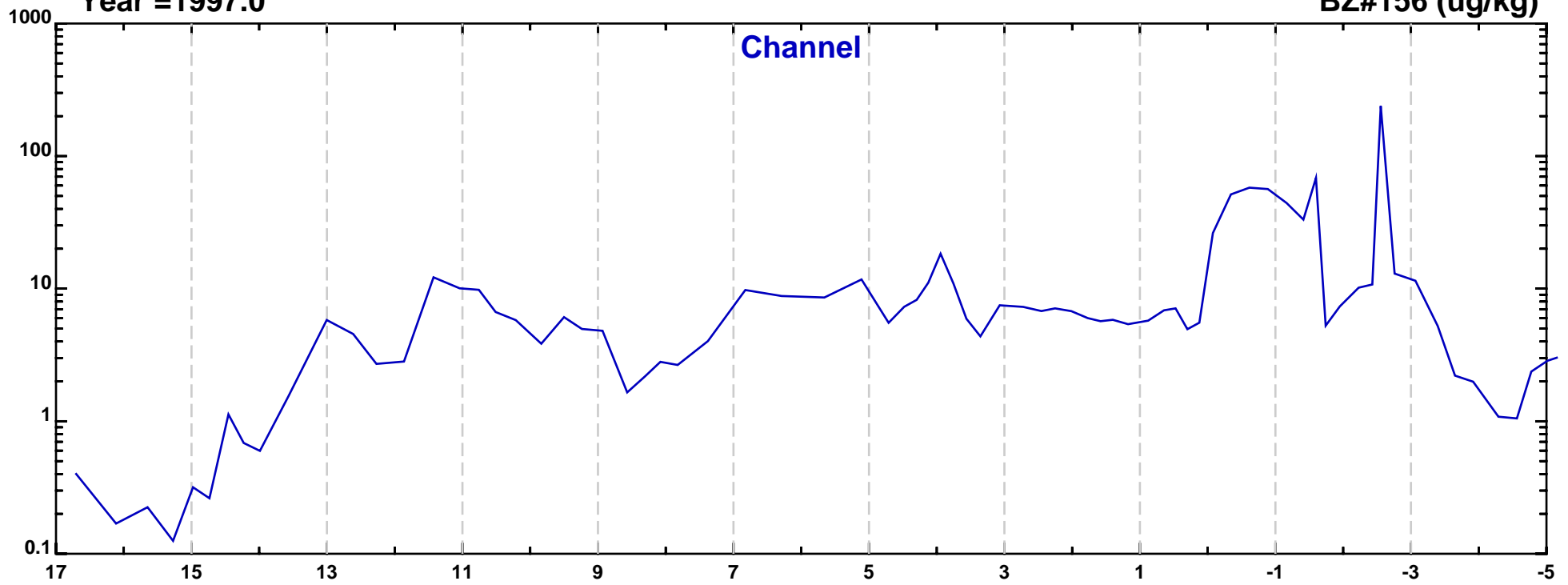


Year = 1997.0

BZ#156 (ug/kg)

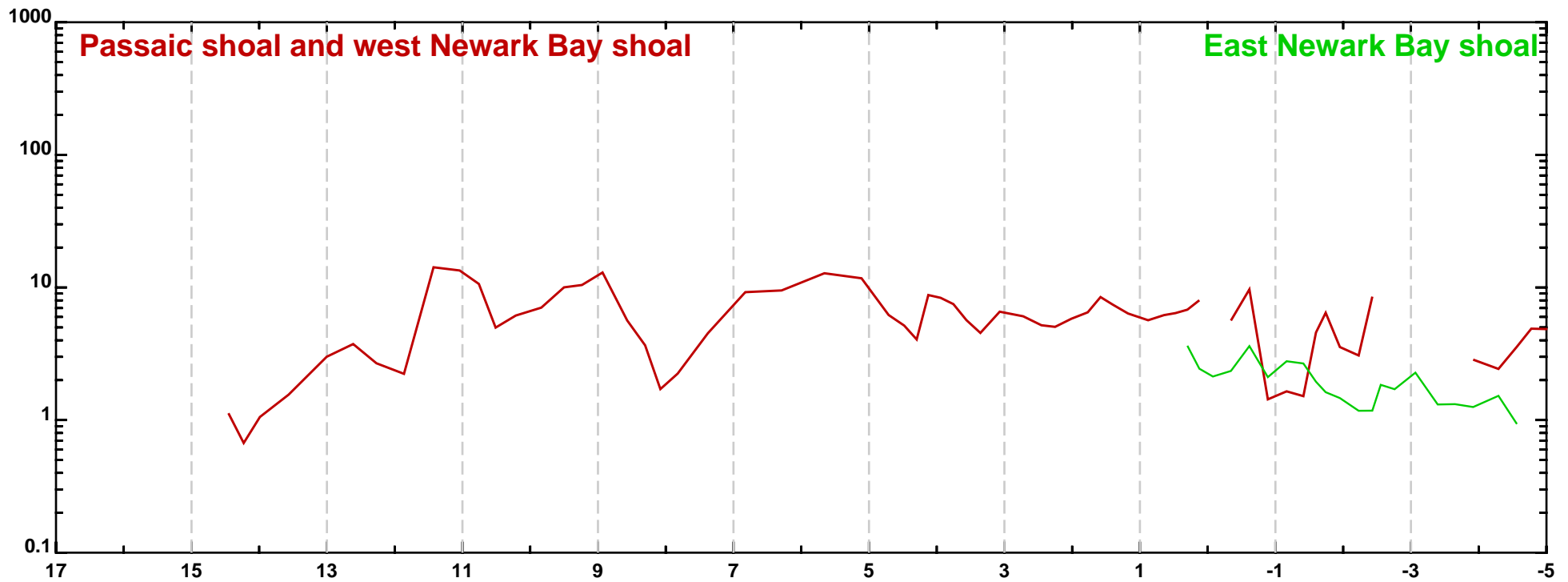
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



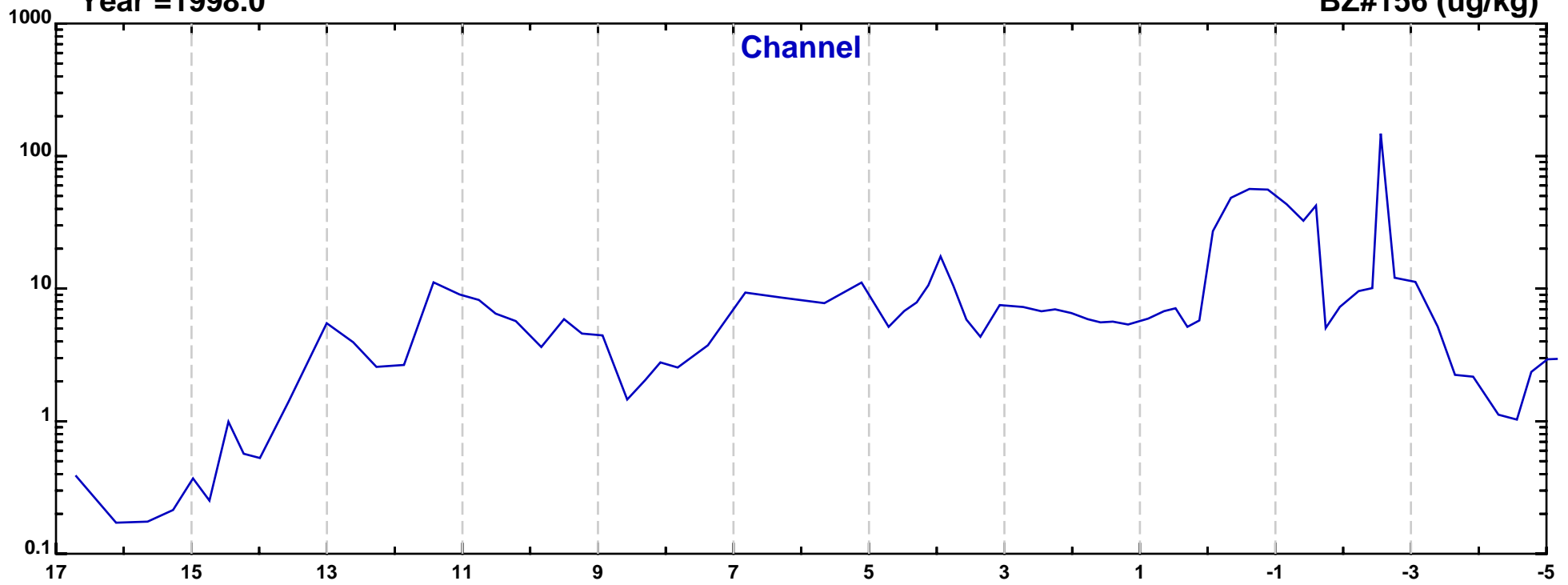
River Mile

Year = 1998.0

BZ#156 (ug/kg)

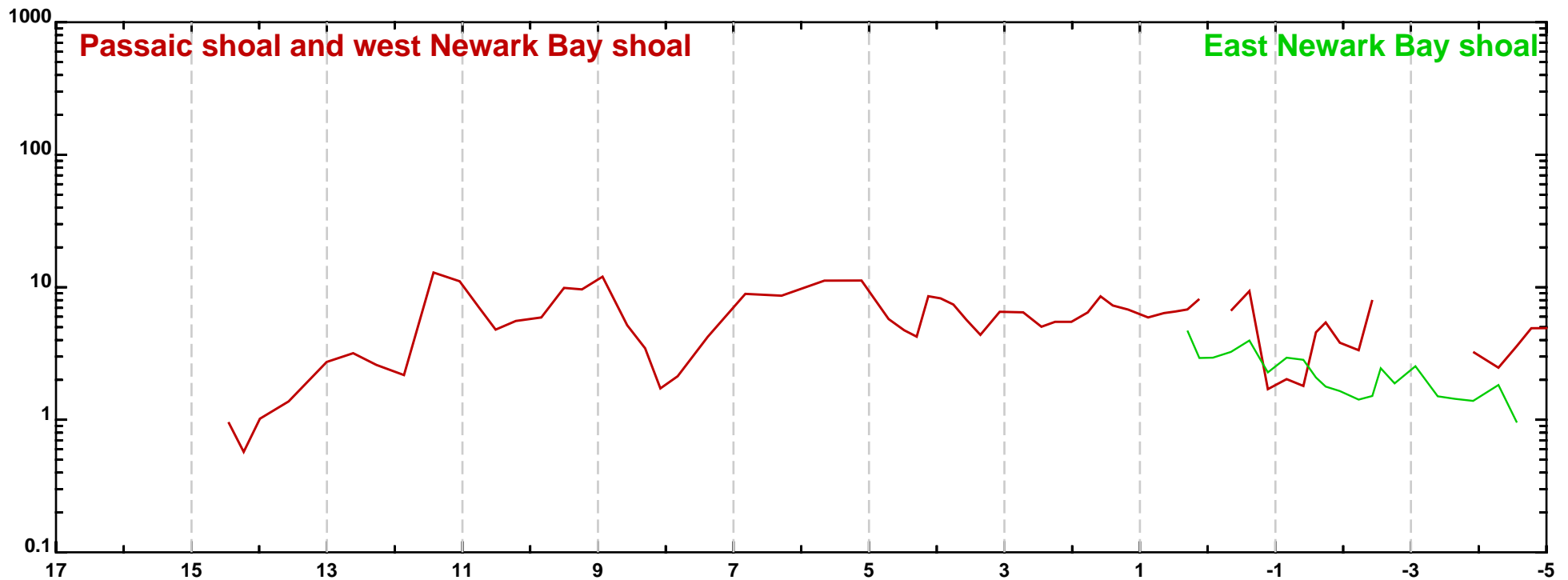
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

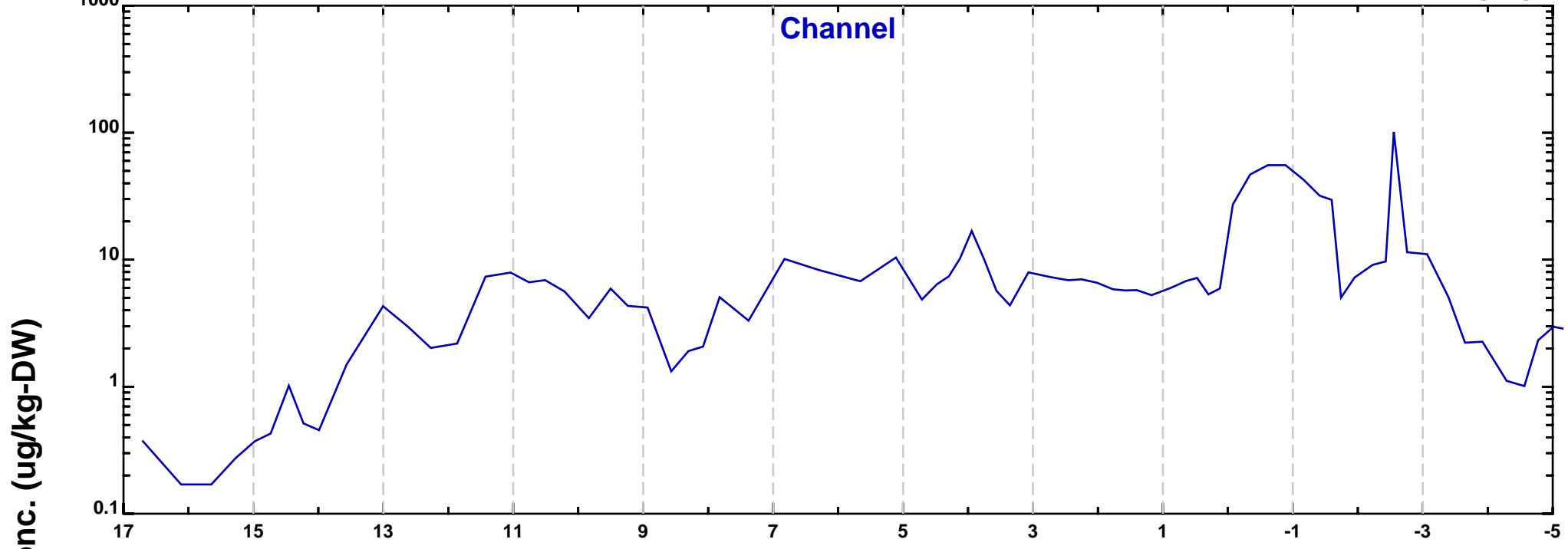
East Newark Bay shoal





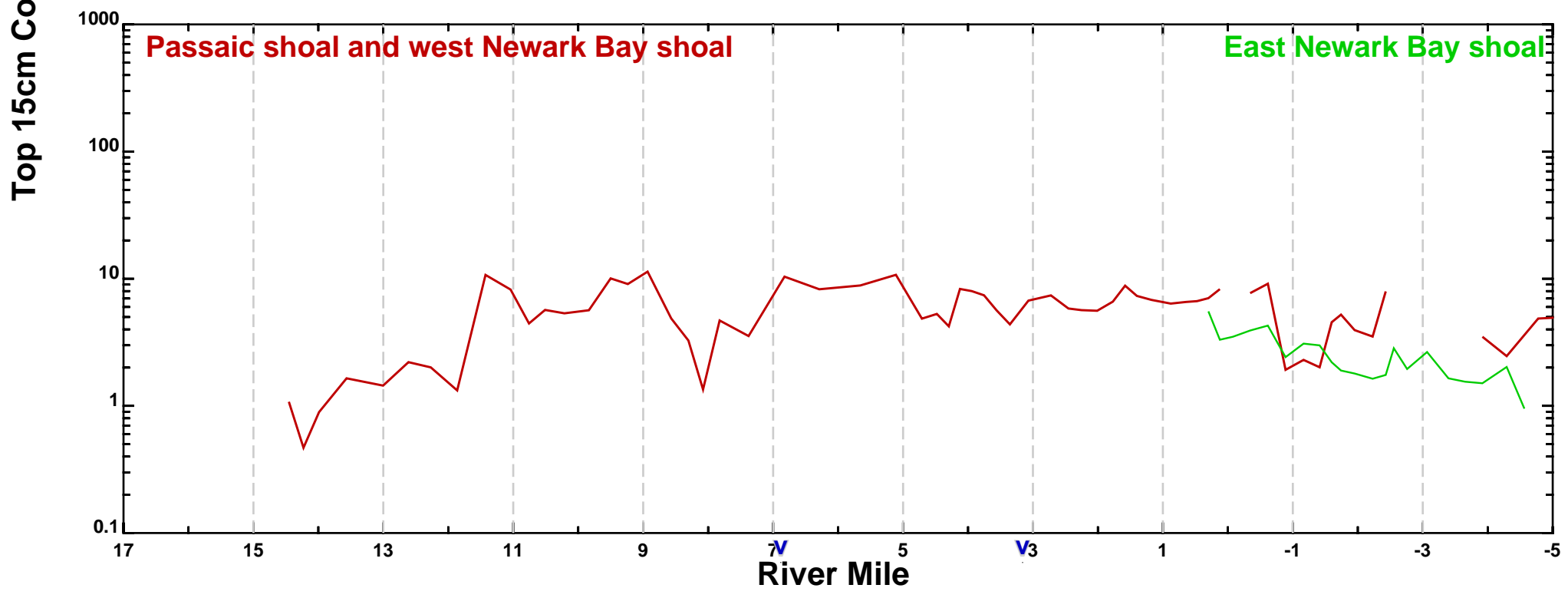
Year = 1999.0

BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

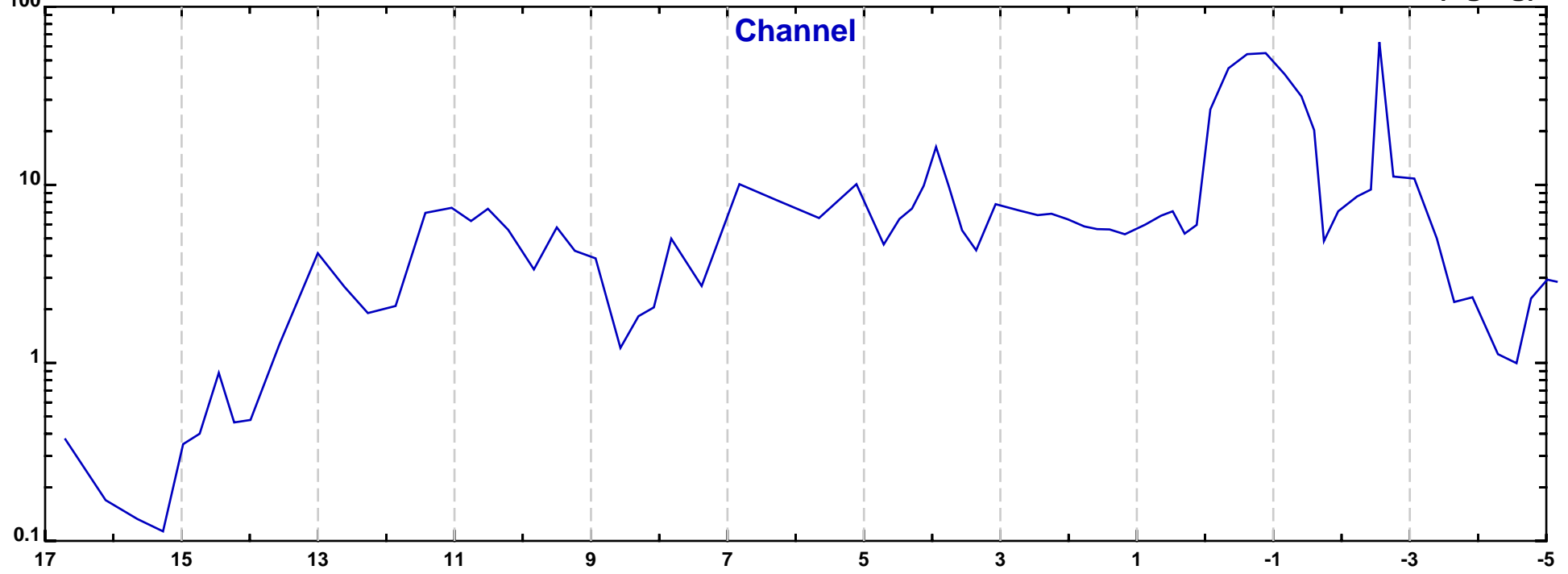


River Mile

Year =2000.0

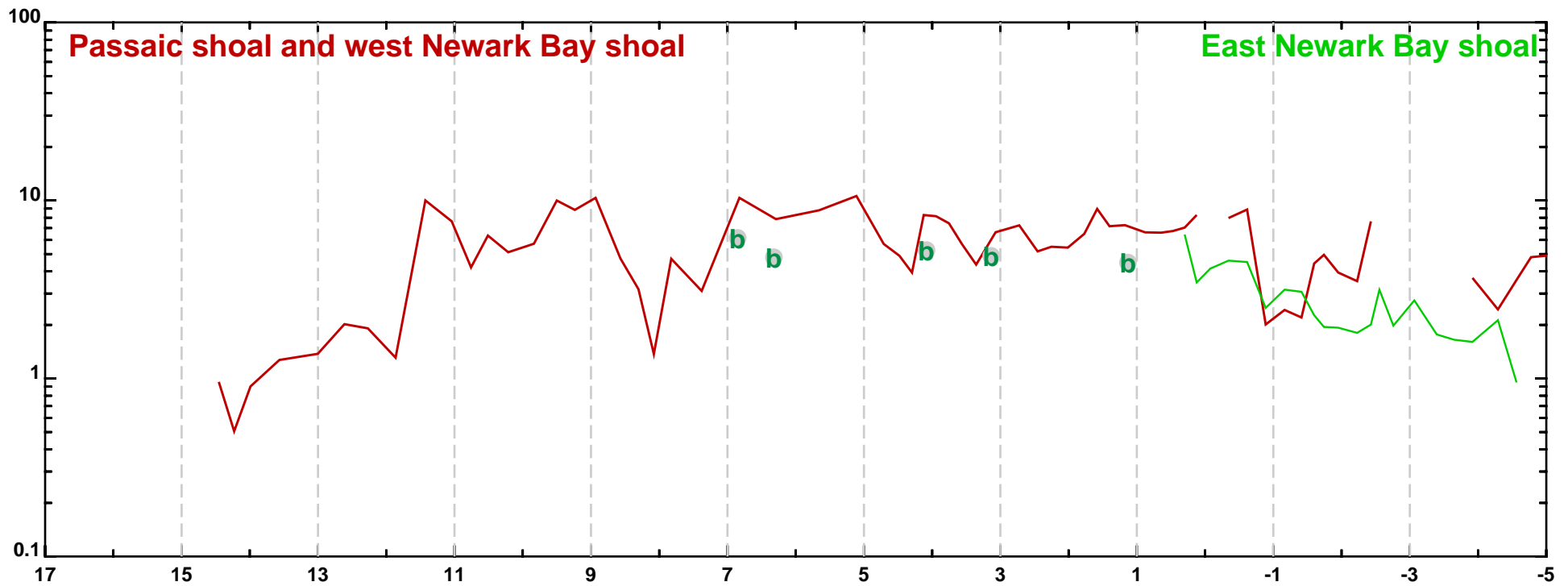
BZ#156 (ug/kg)

Top 15cm Conc. (ug/kg-DW)

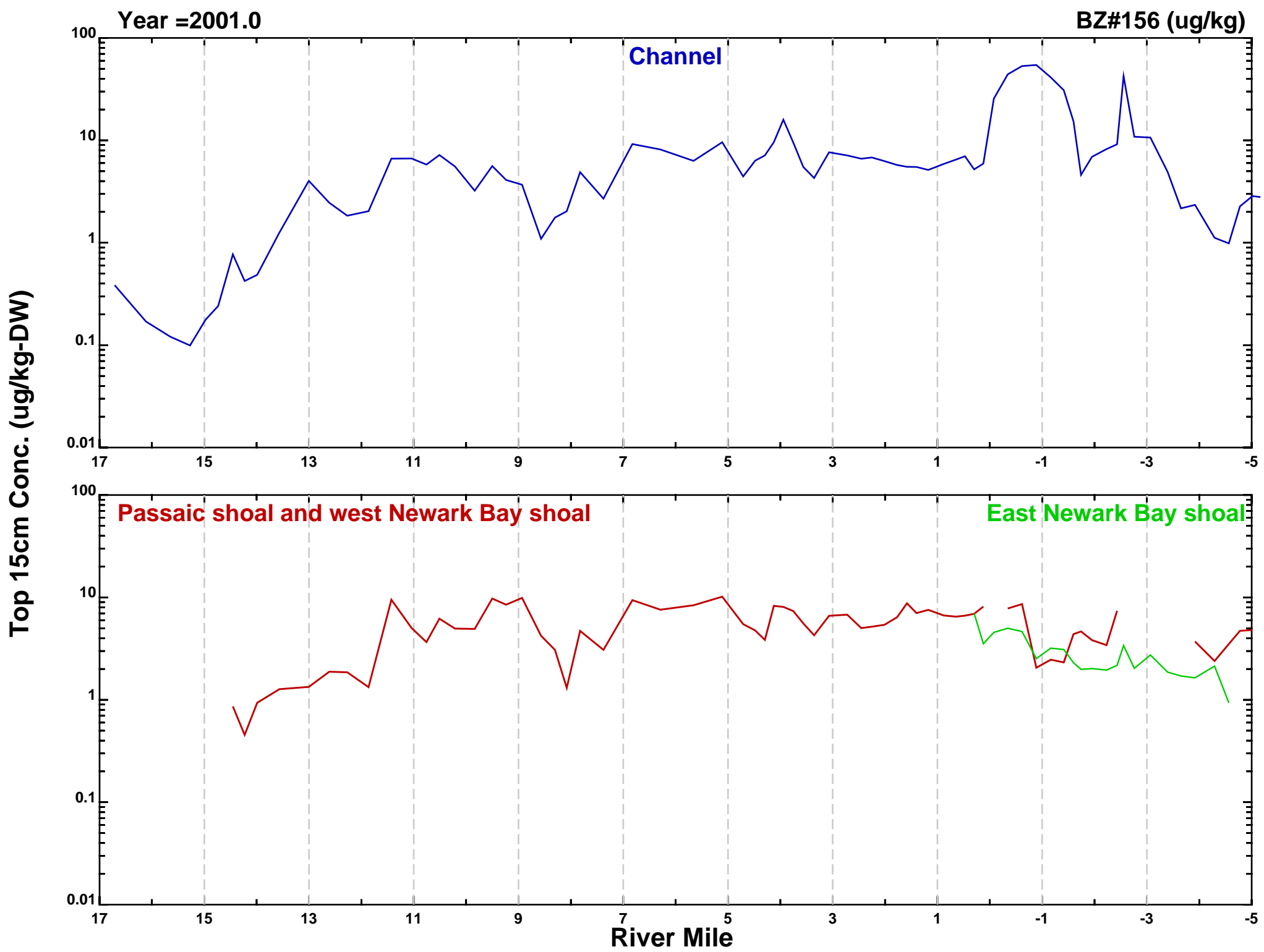


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

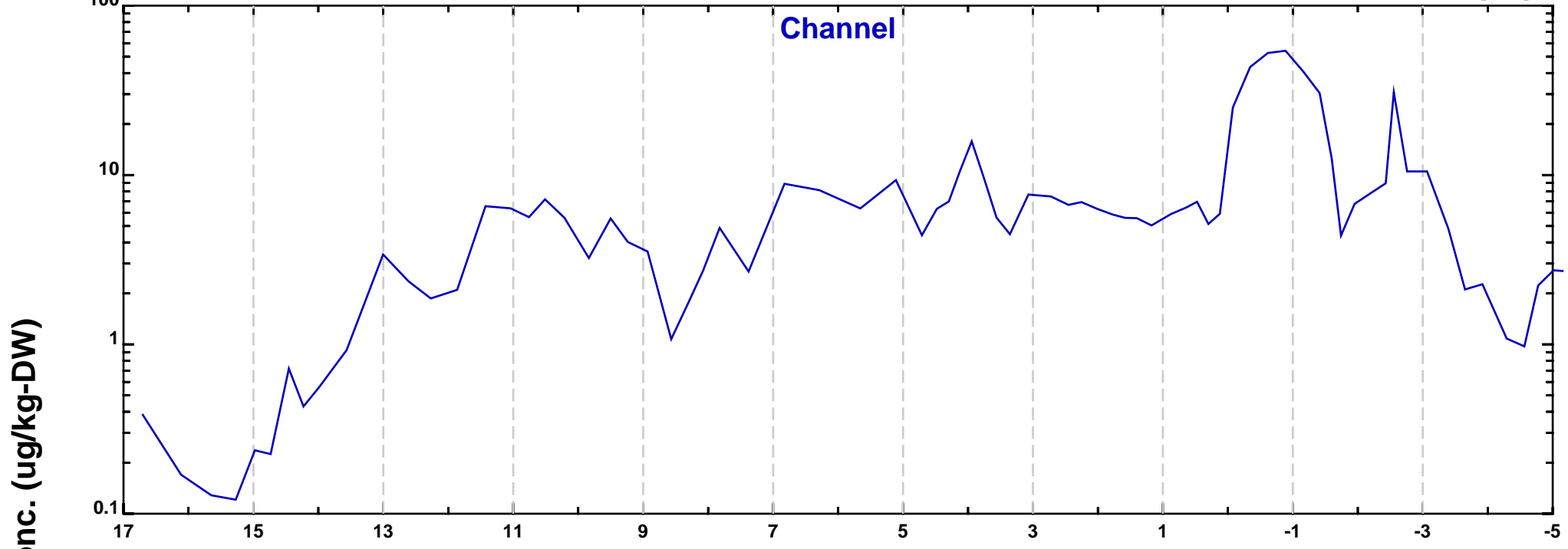


River Mile



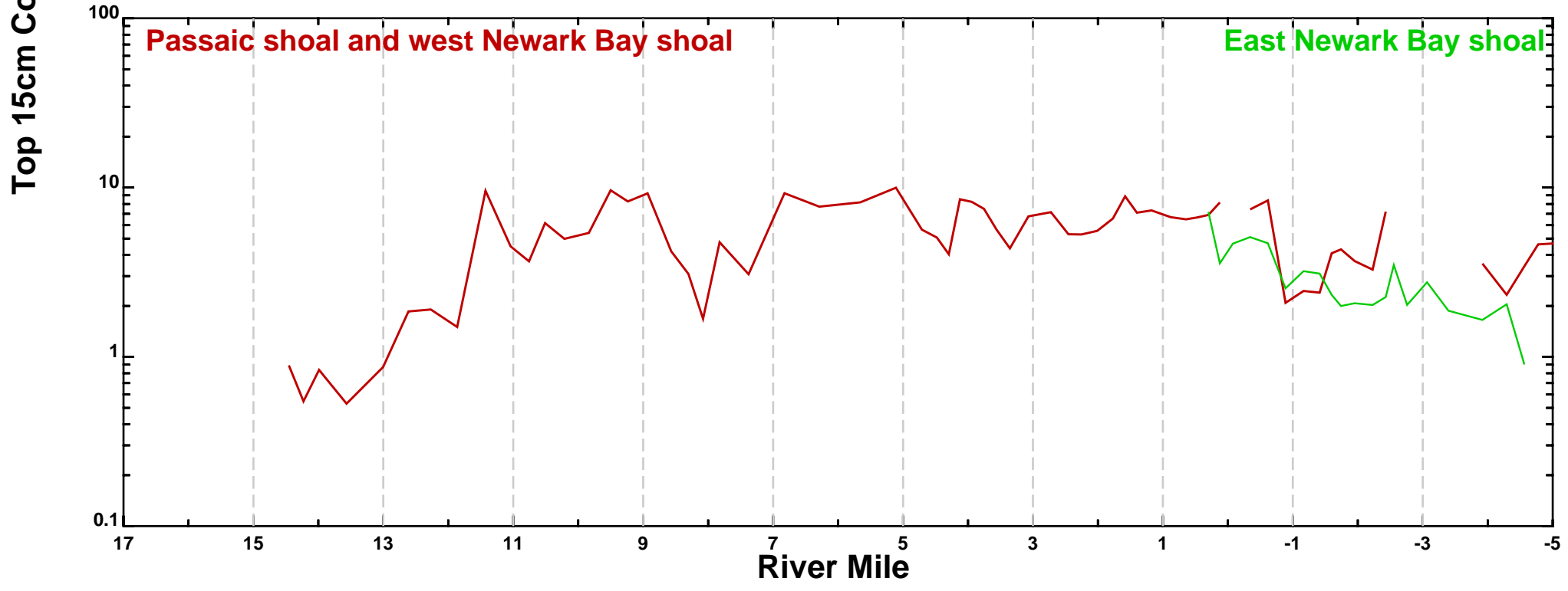
Year =2002.0

BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

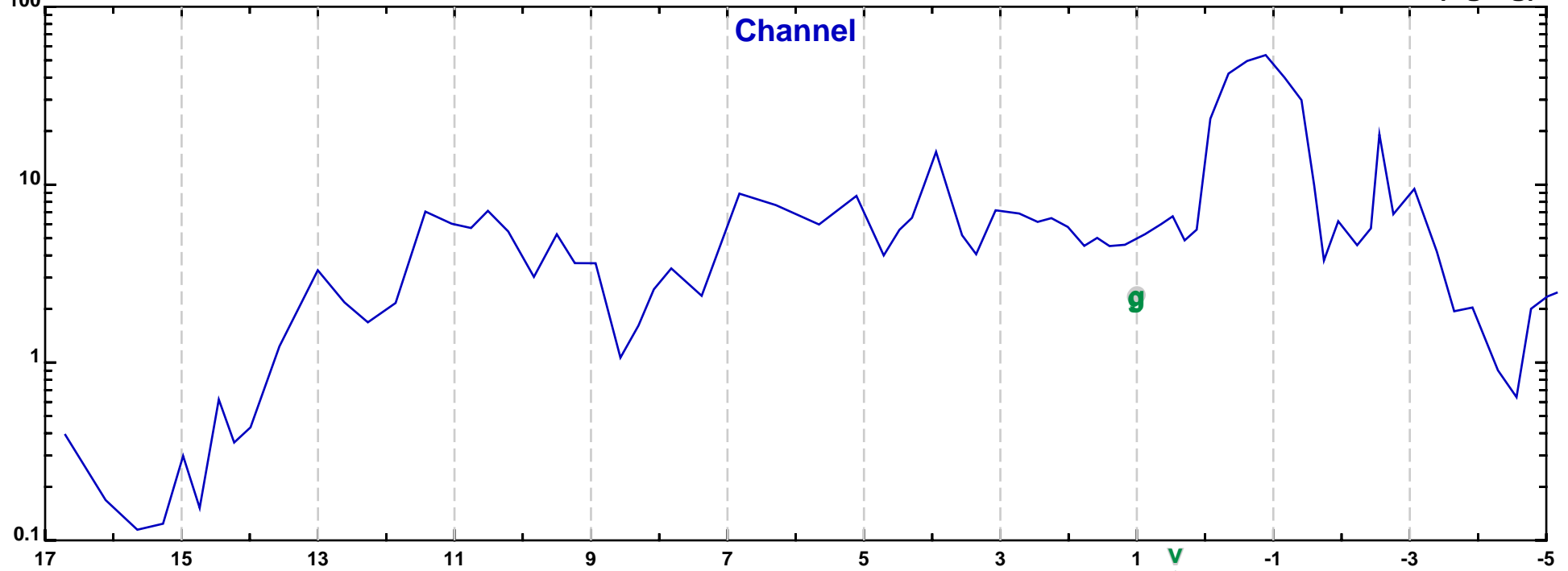
East Newark Bay shoal



Year =2003.0

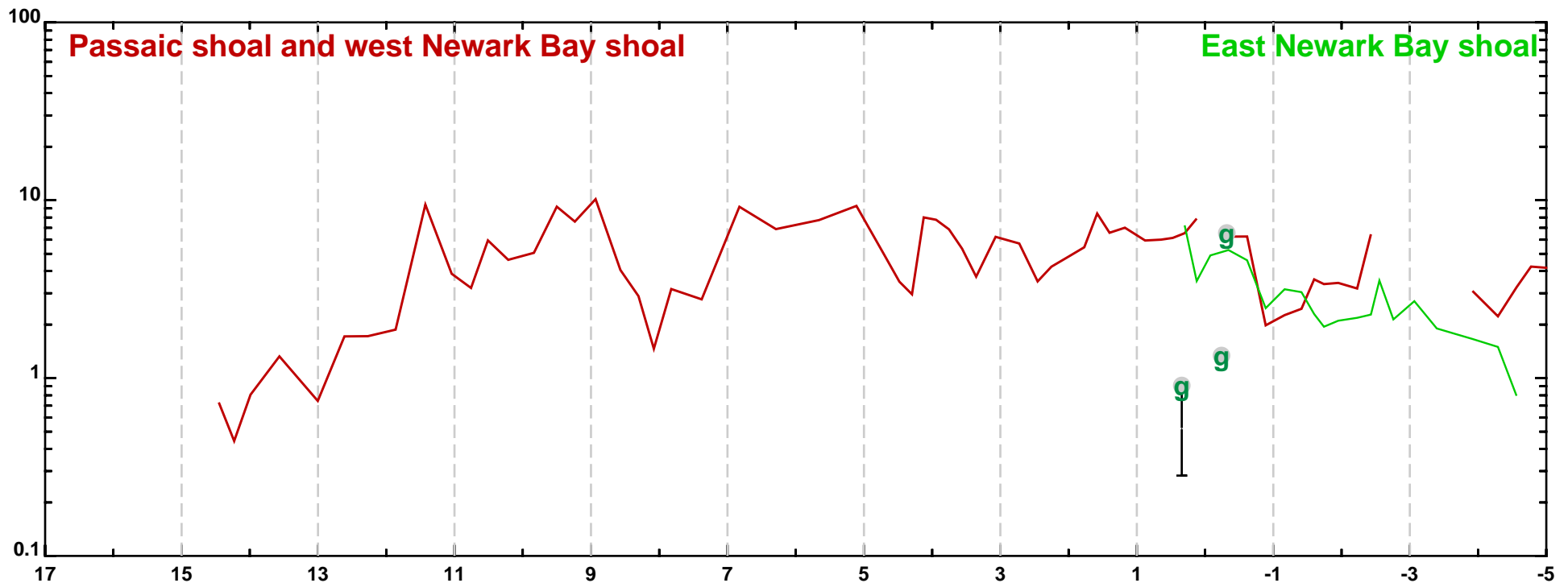
BZ#156 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

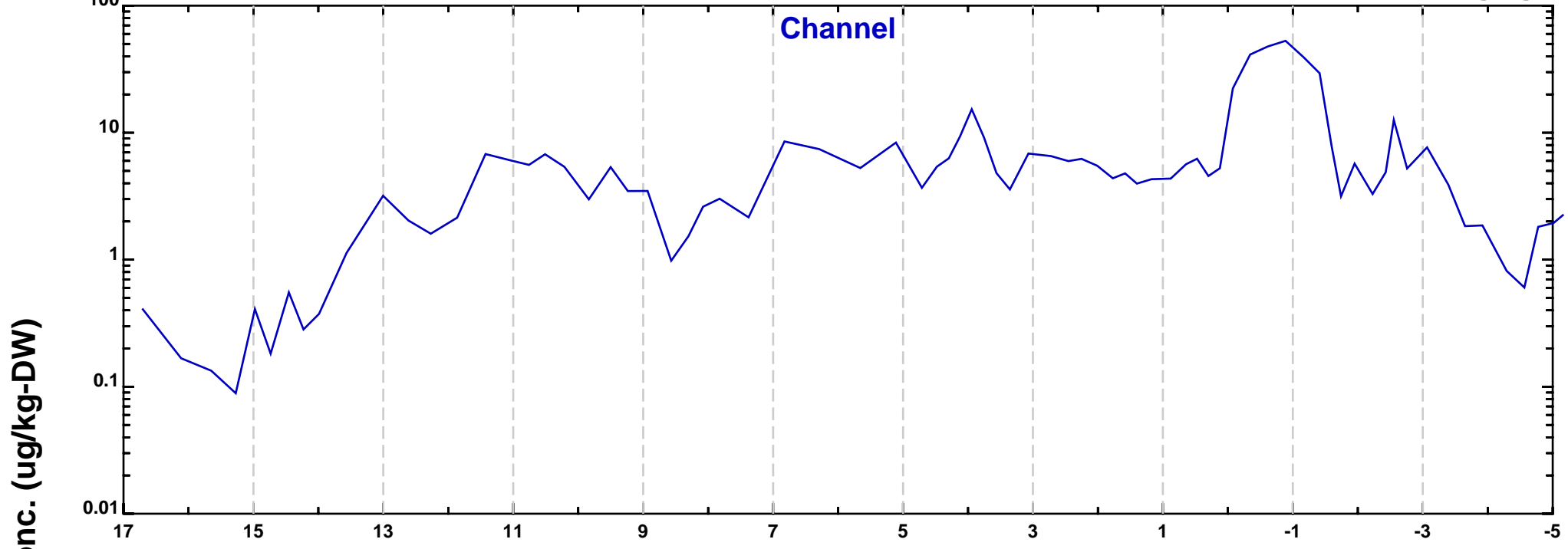
East Newark Bay shoal



River Mile

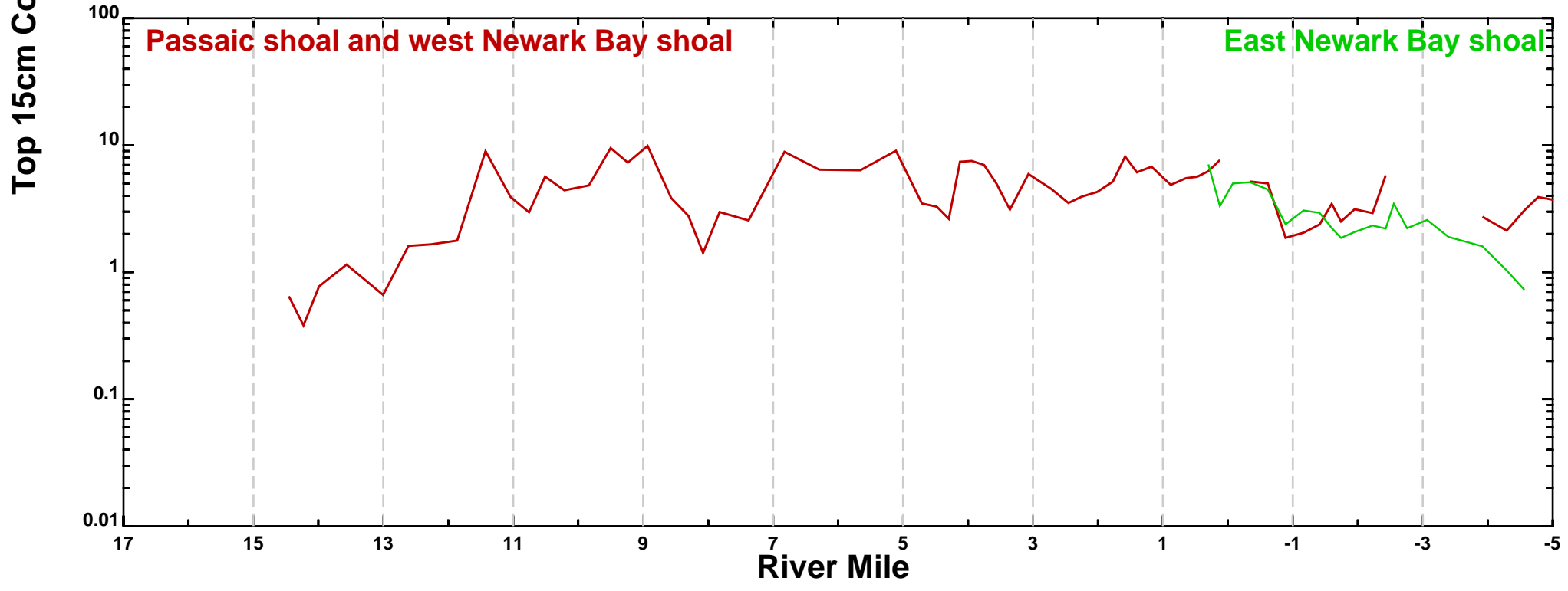
Year =2004.0

BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

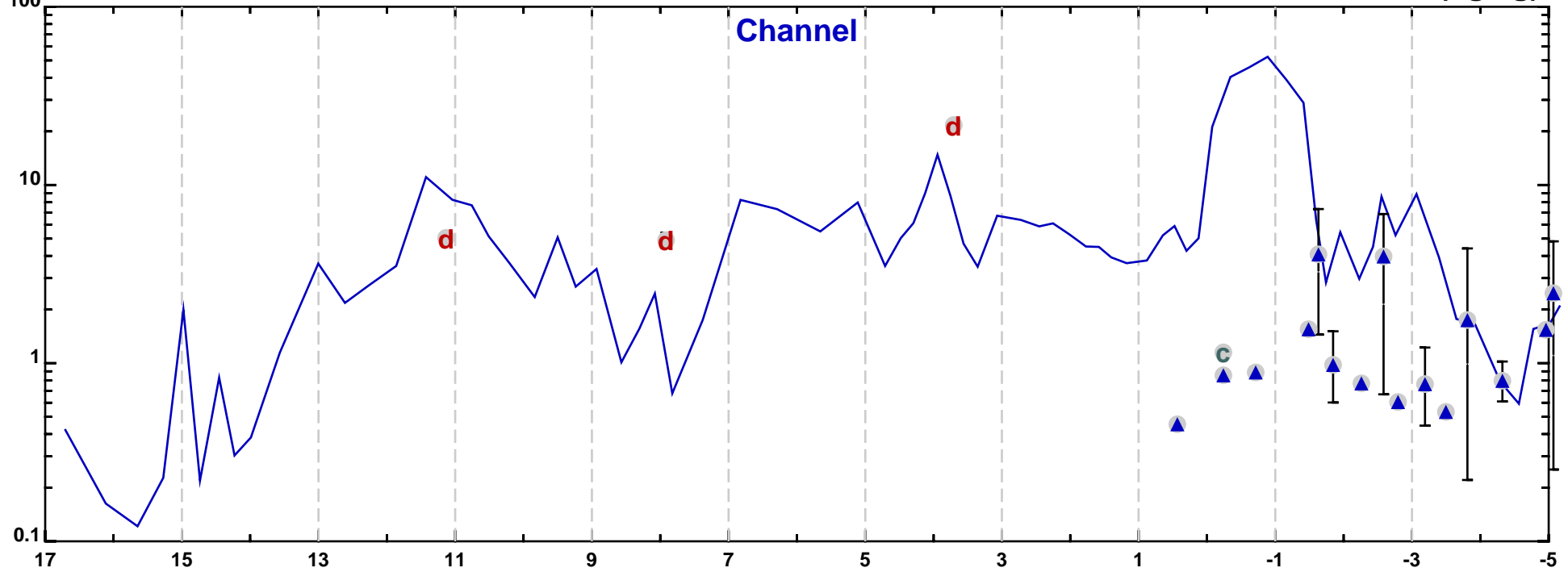
East Newark Bay shoal



Year =2005.0

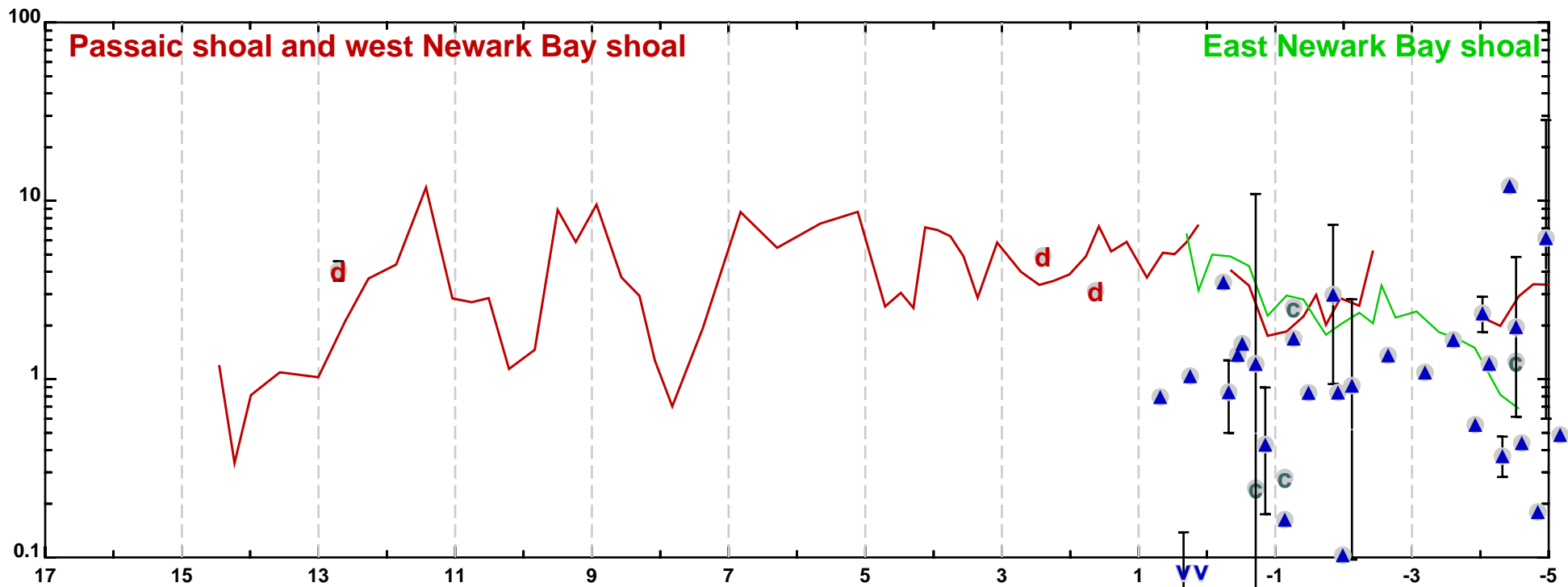
BZ#156 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

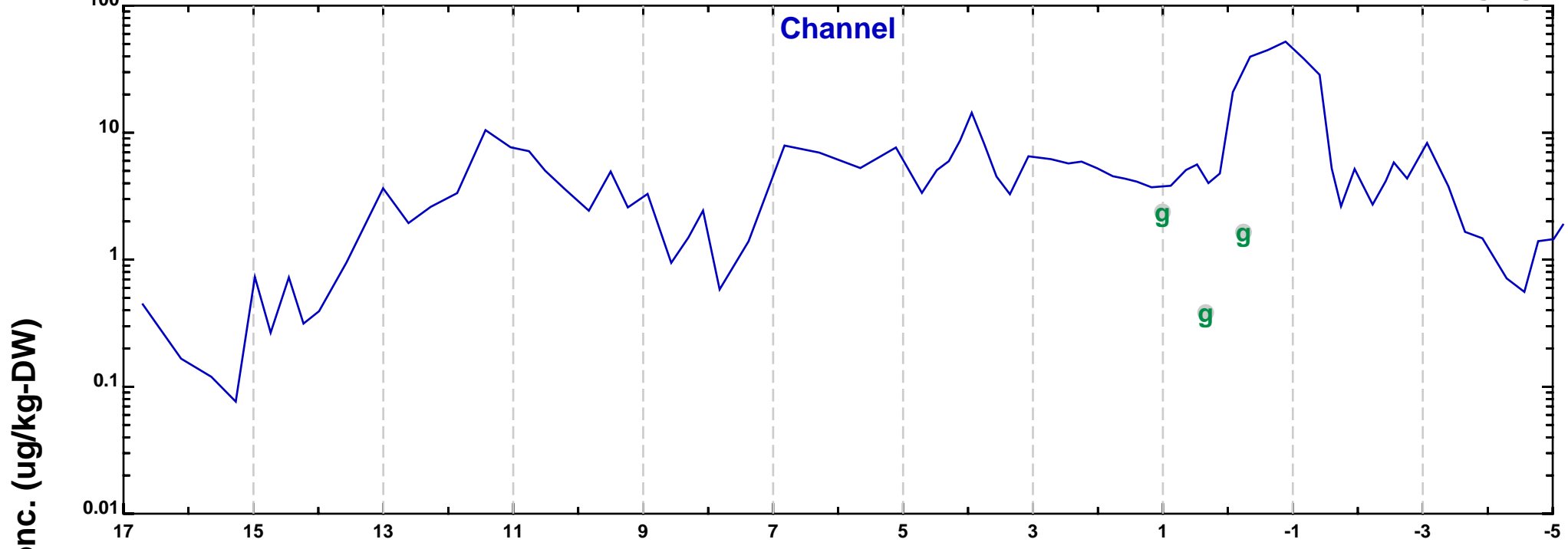
East Newark Bay shoal



River Mile

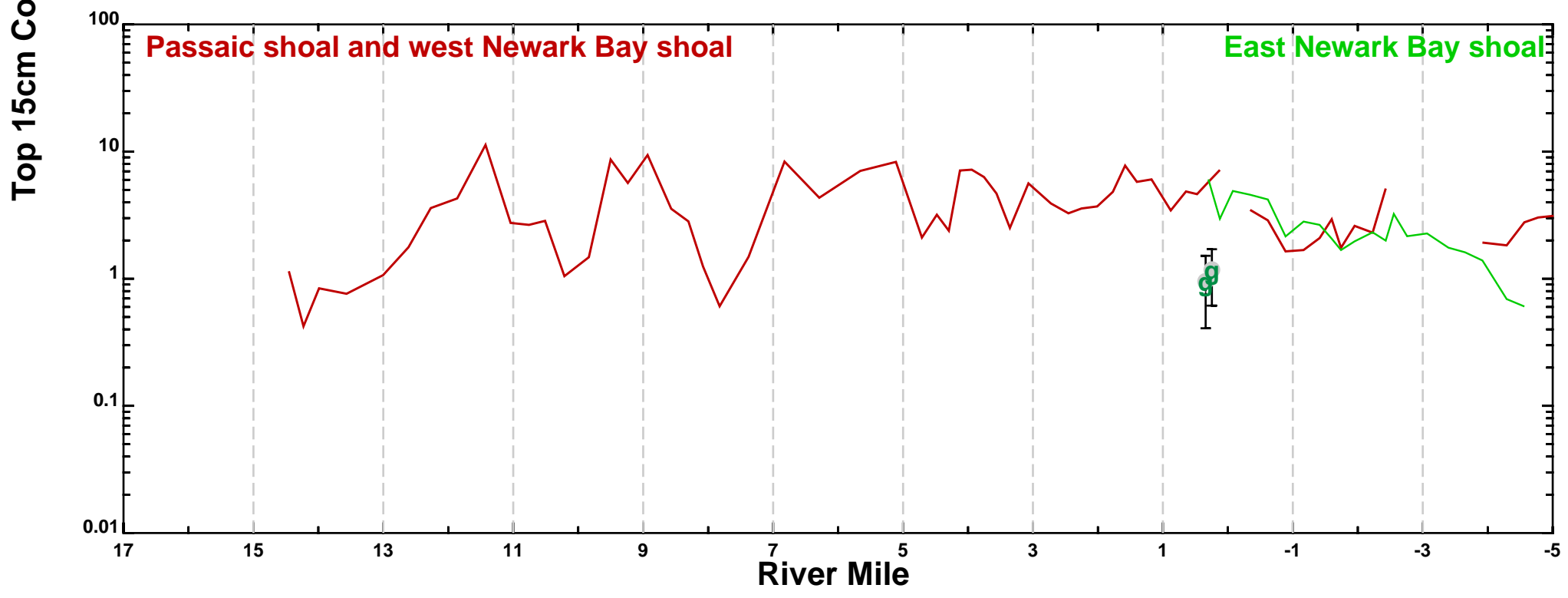
Year =2006.0

BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

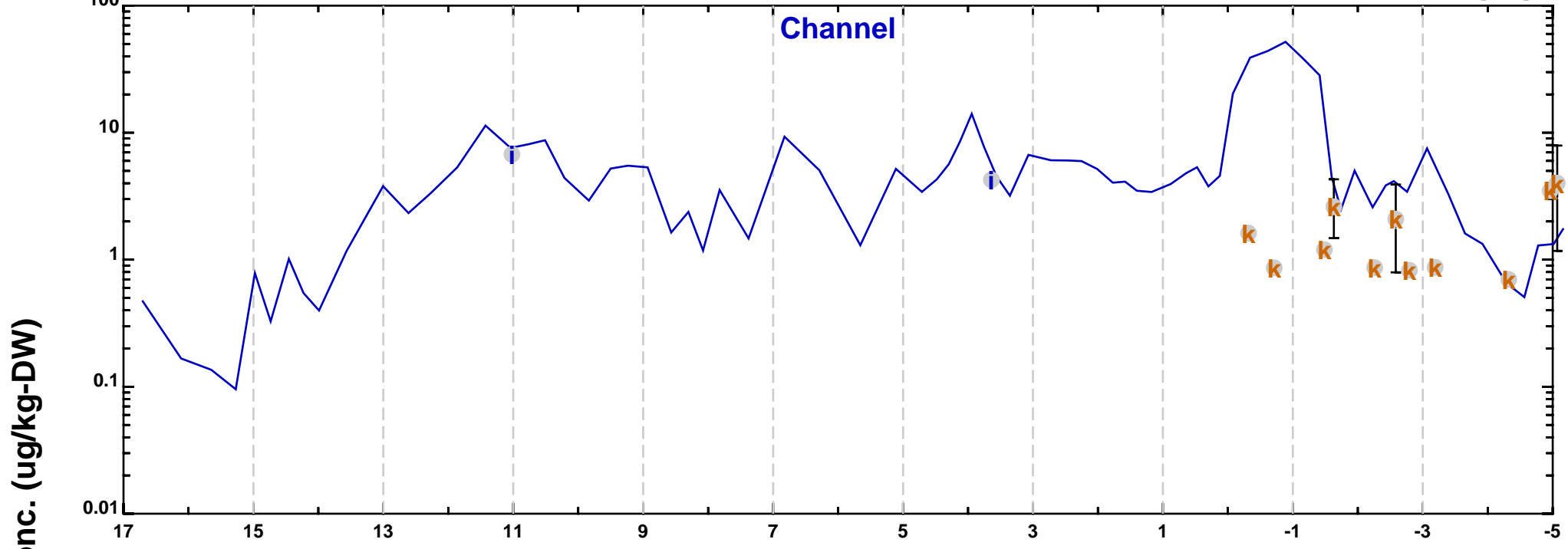


River Mile



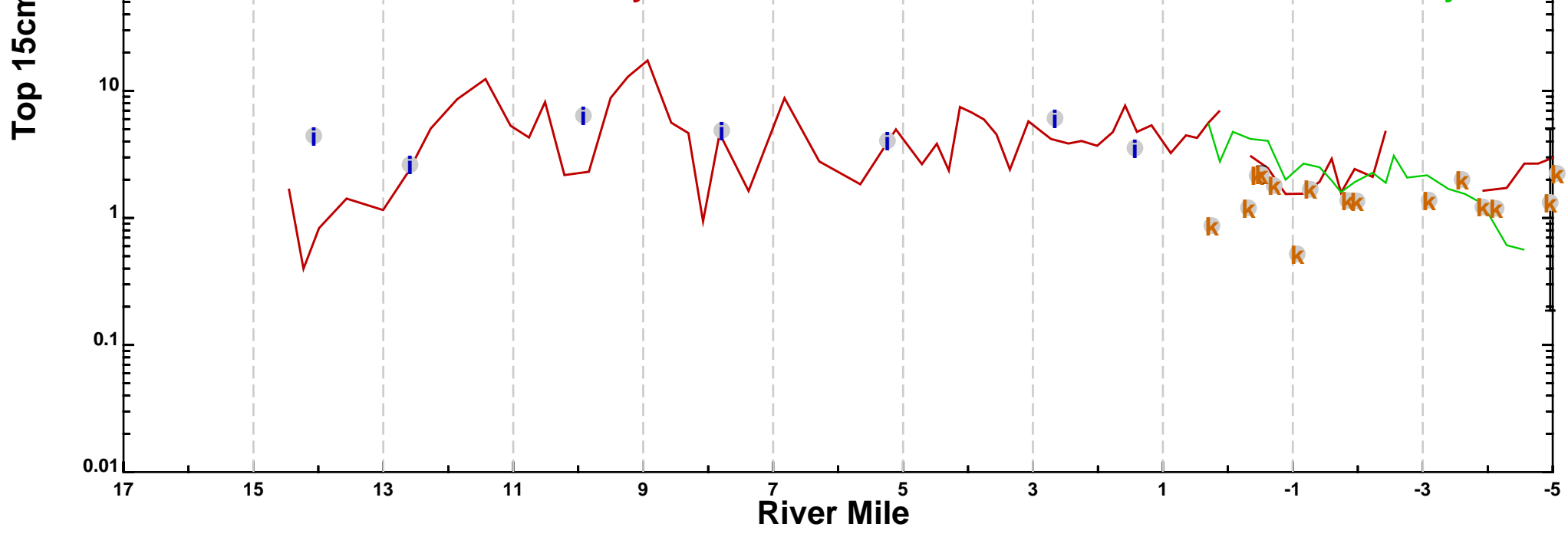
Year =2007.0

BZ#156 (ug/kg)



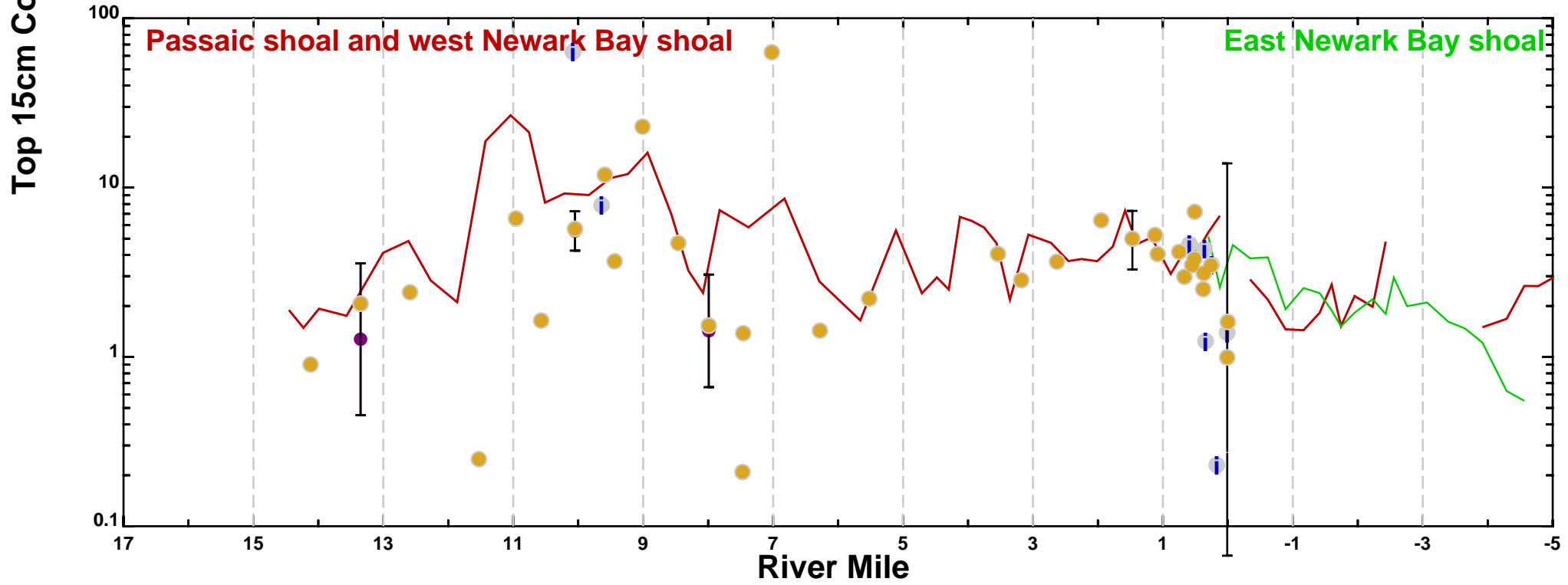
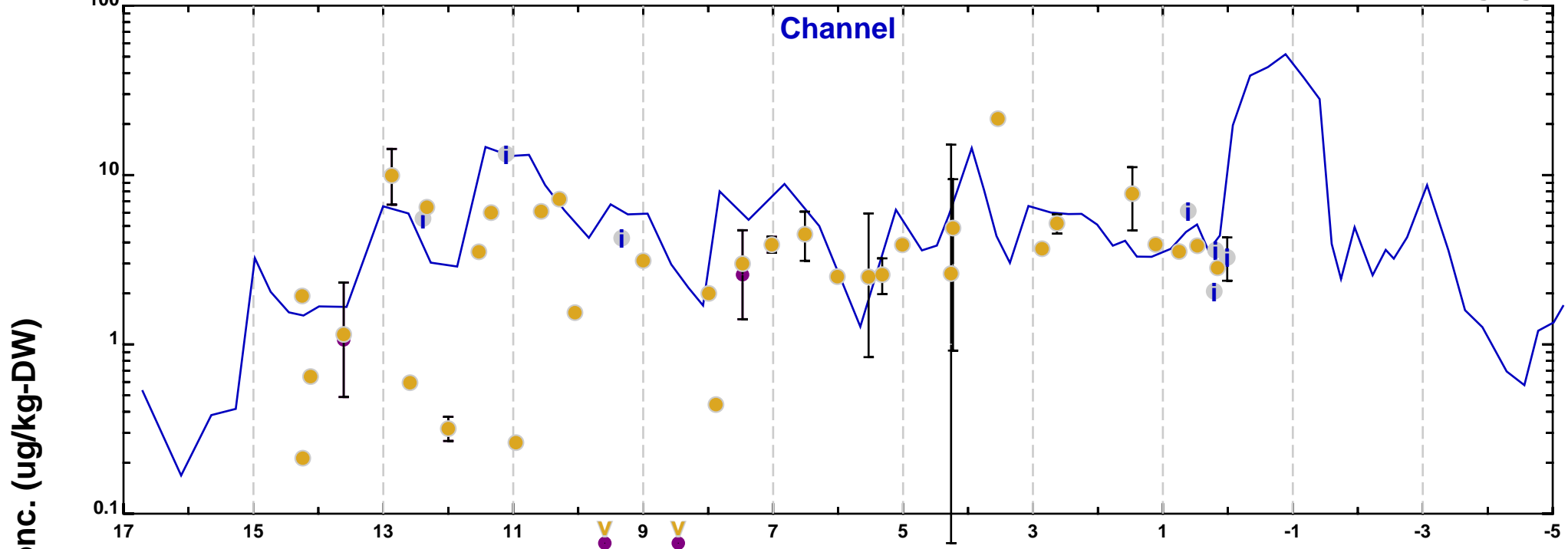
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2008.0

BZ#156 (ug/kg)

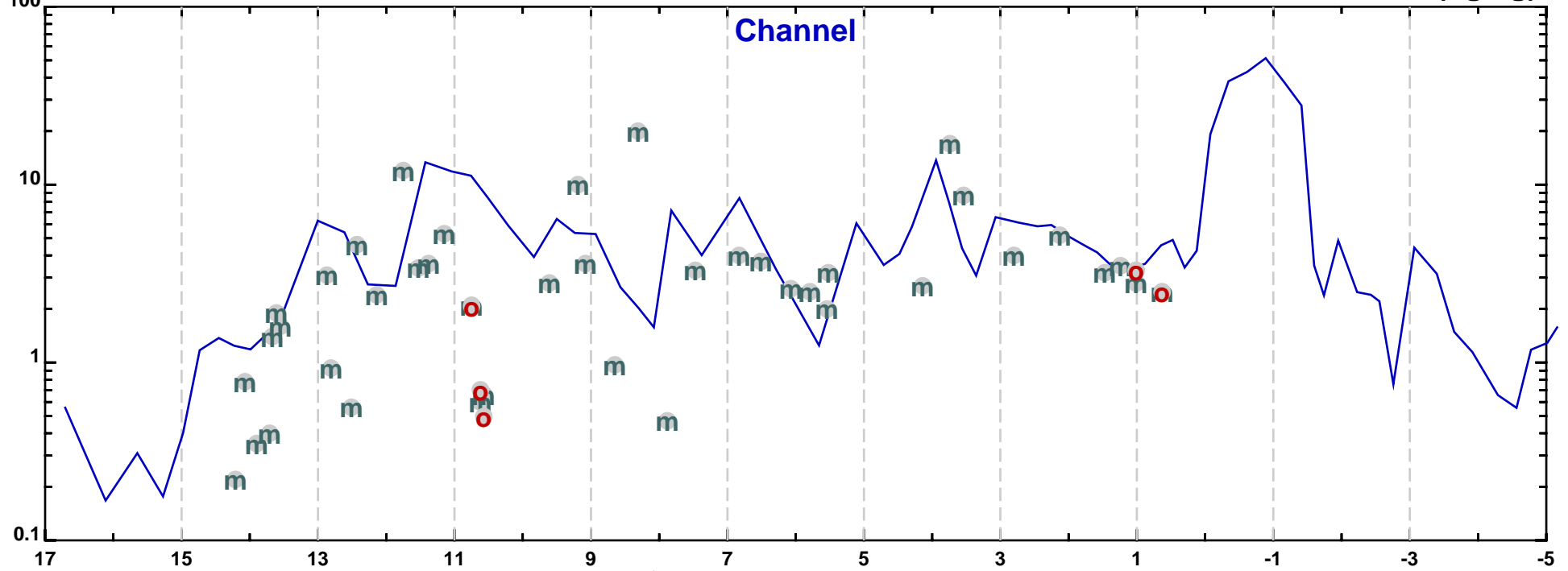


Year =2009.0

BZ#156 (ug/kg)

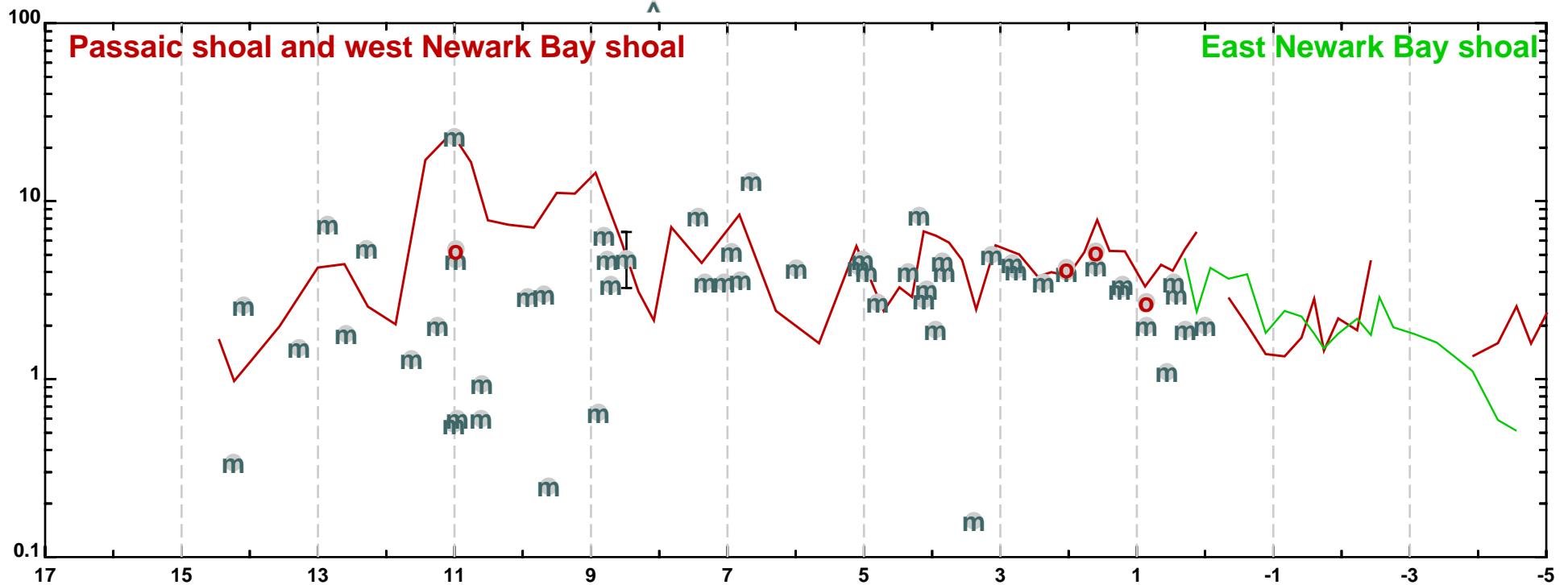
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

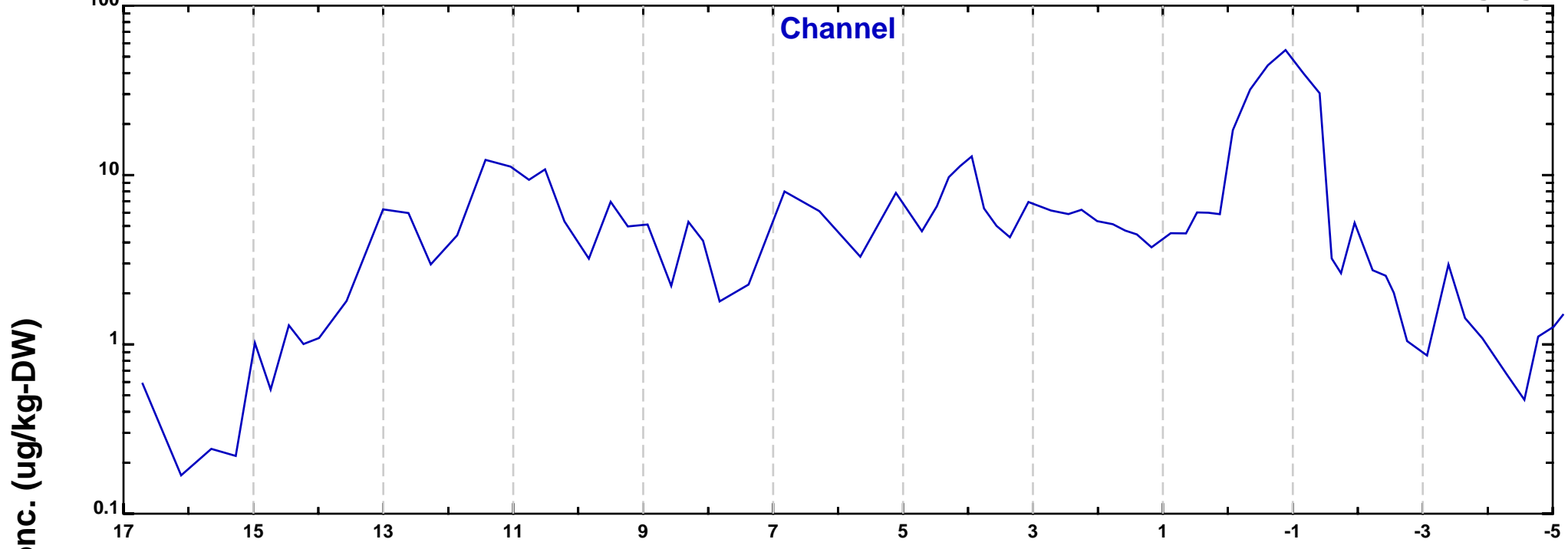
East Newark Bay shoal



River Mile

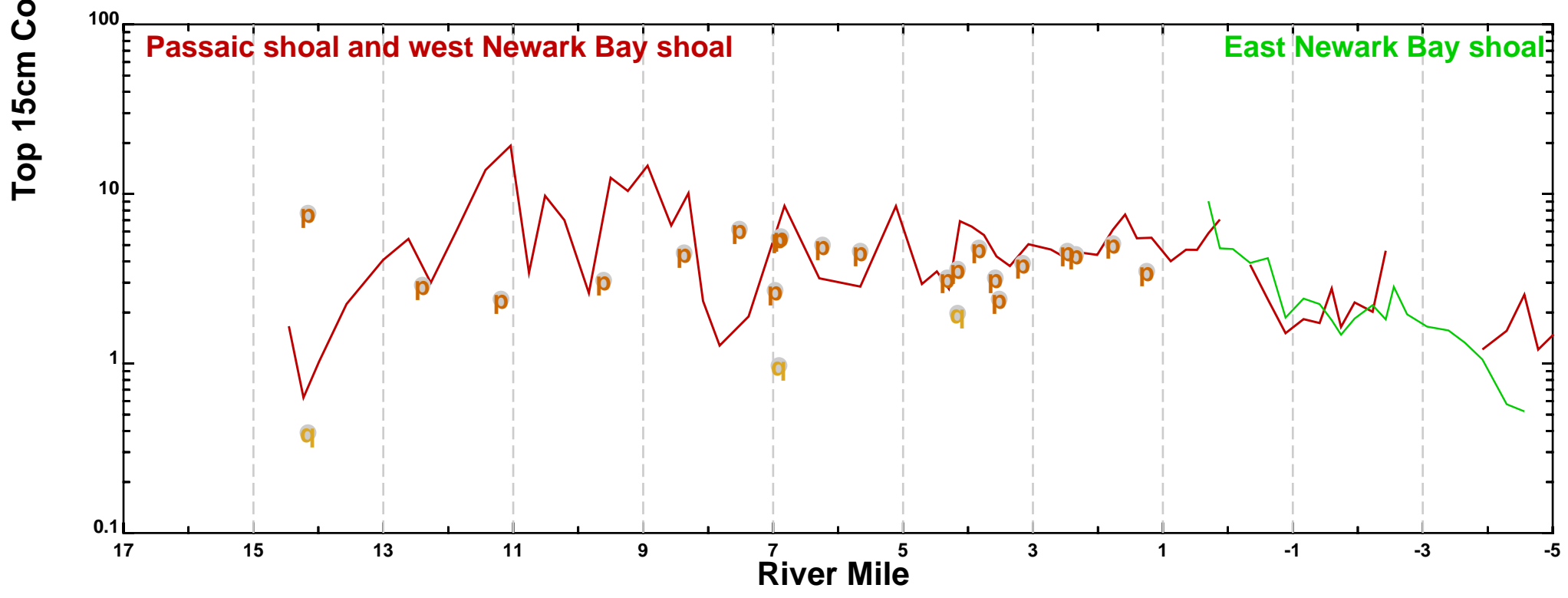
Year =2010.0

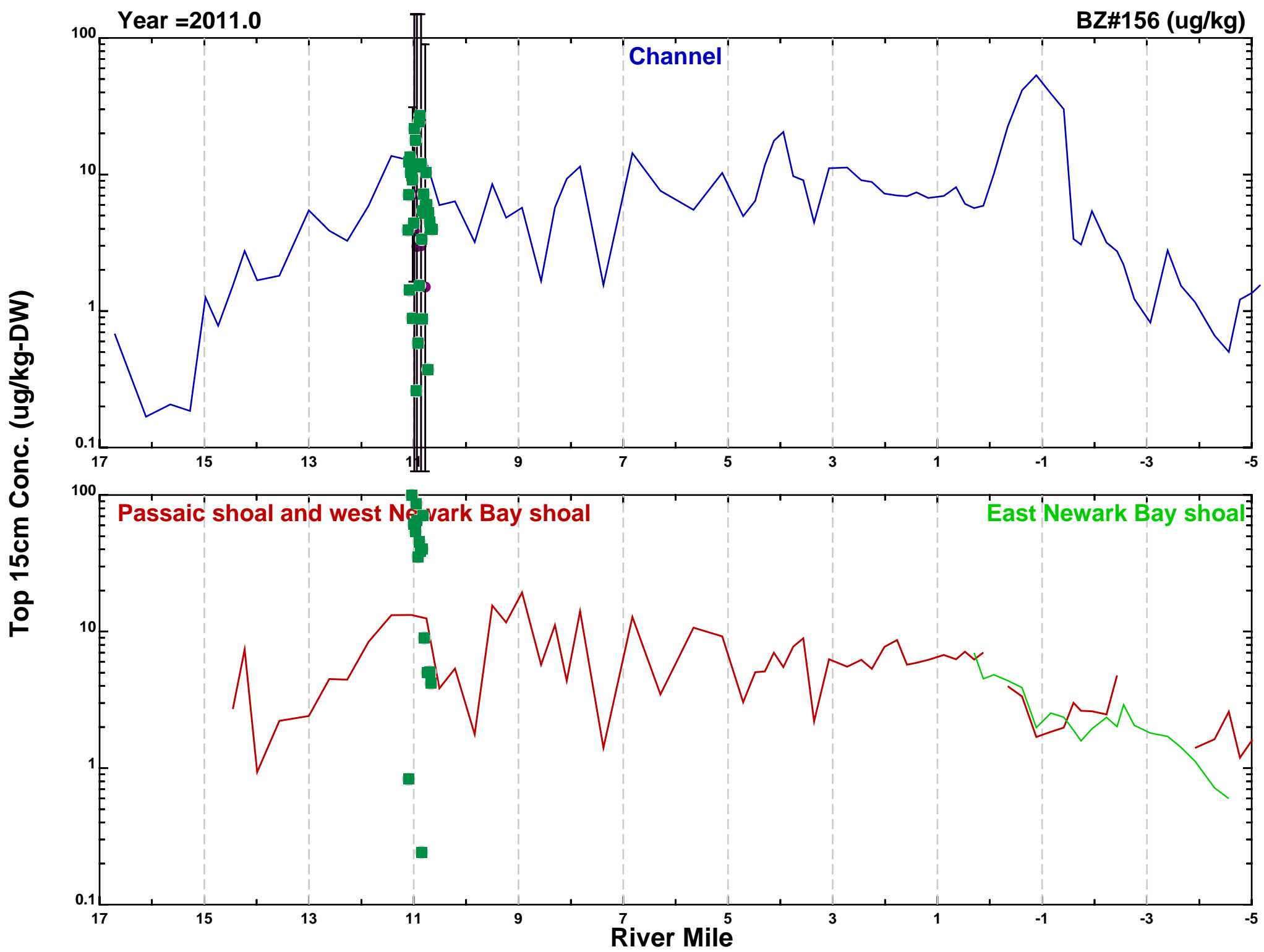
BZ#156 (ug/kg)

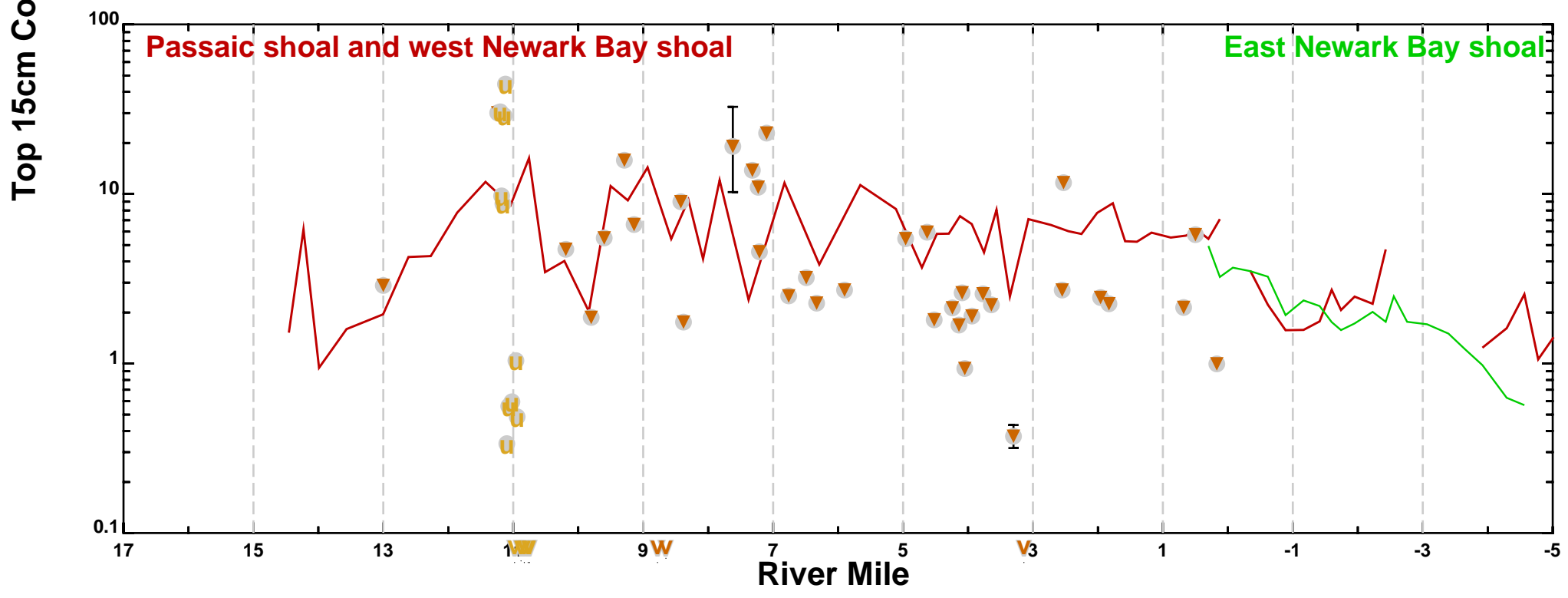
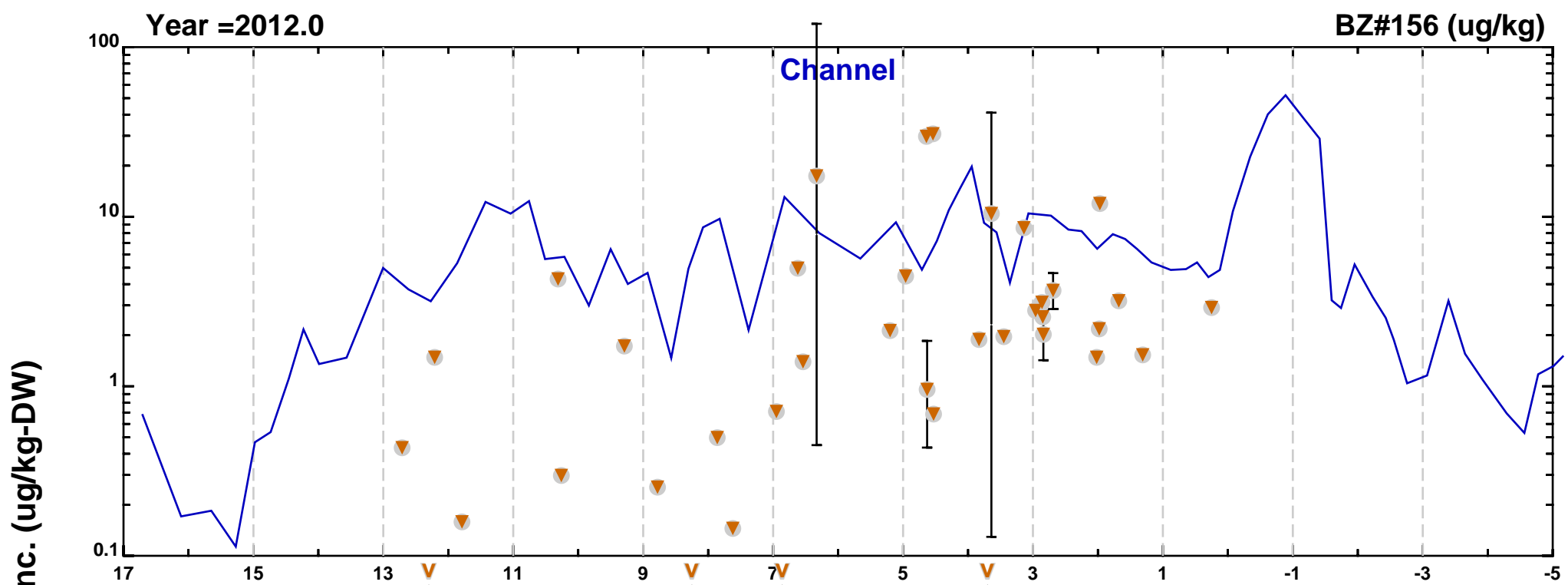


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

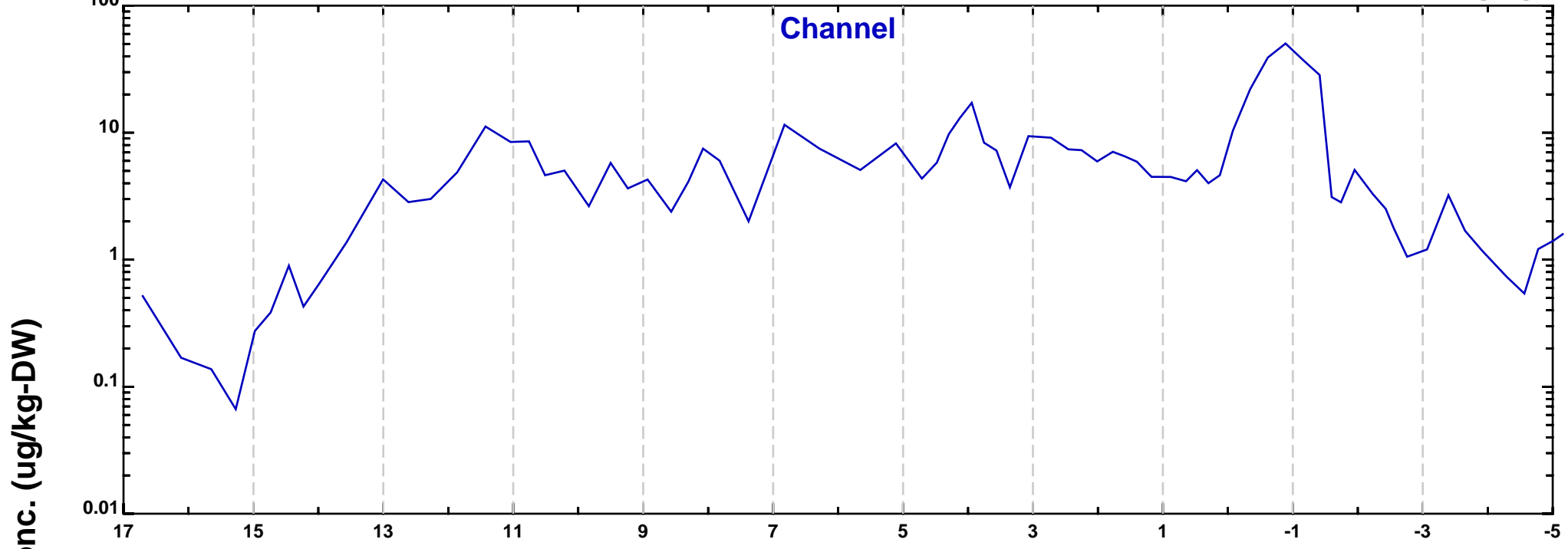






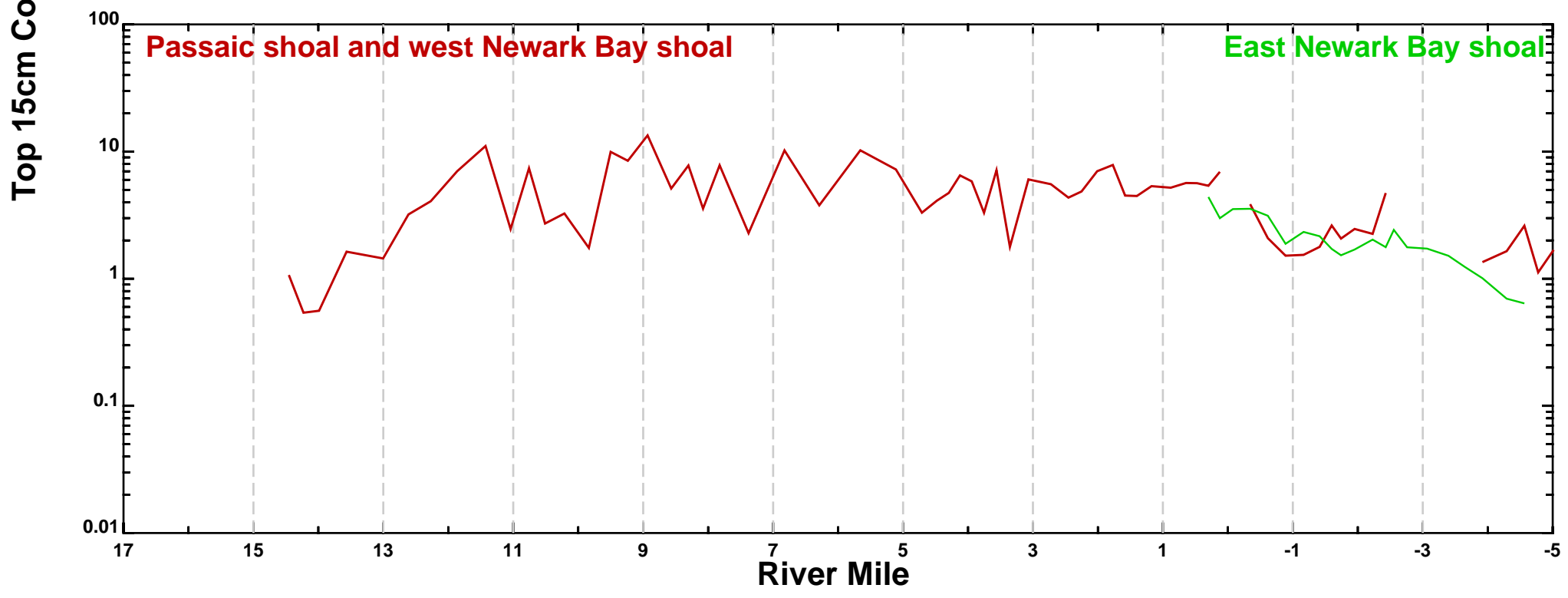
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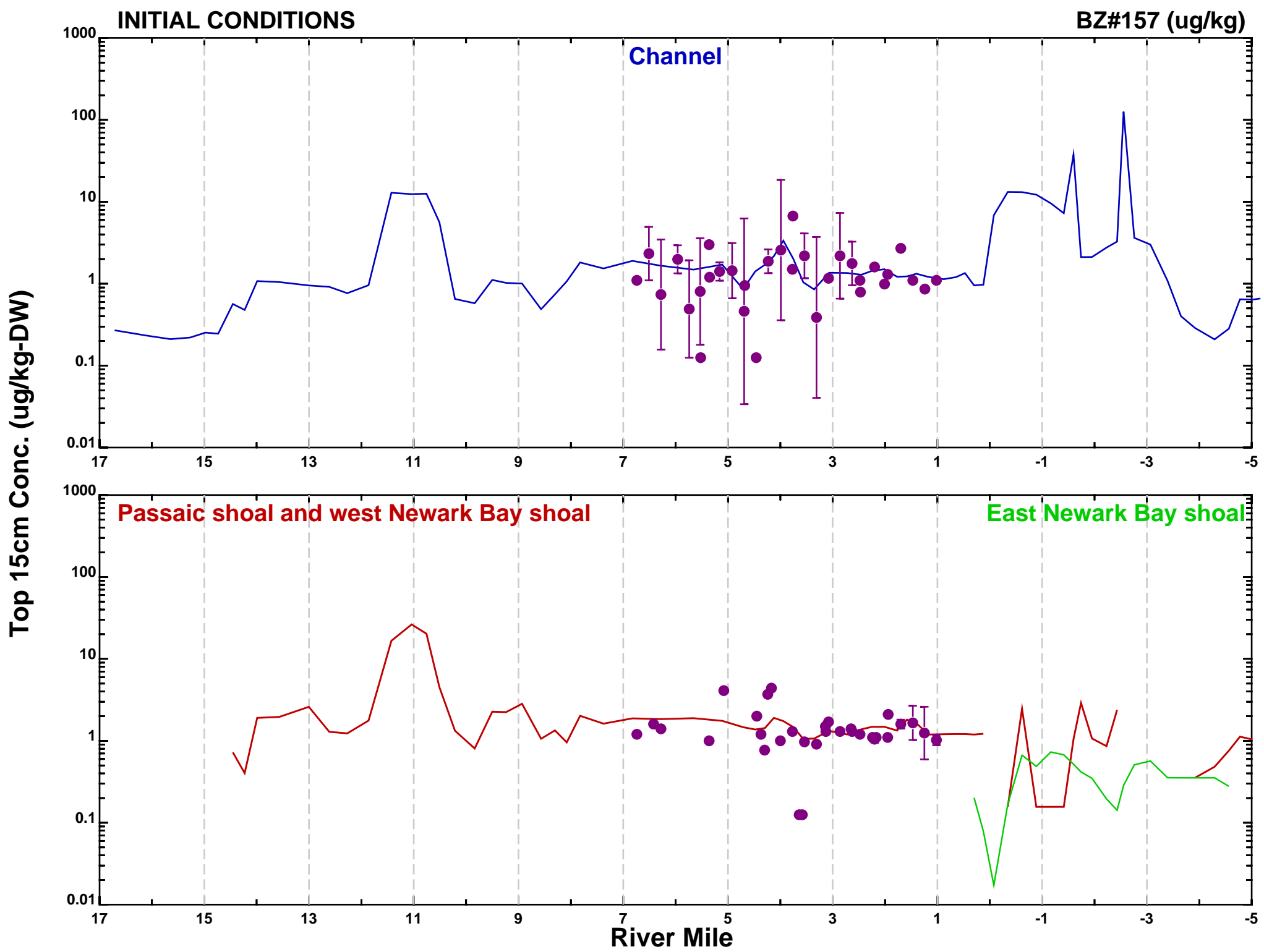
BZ#156 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

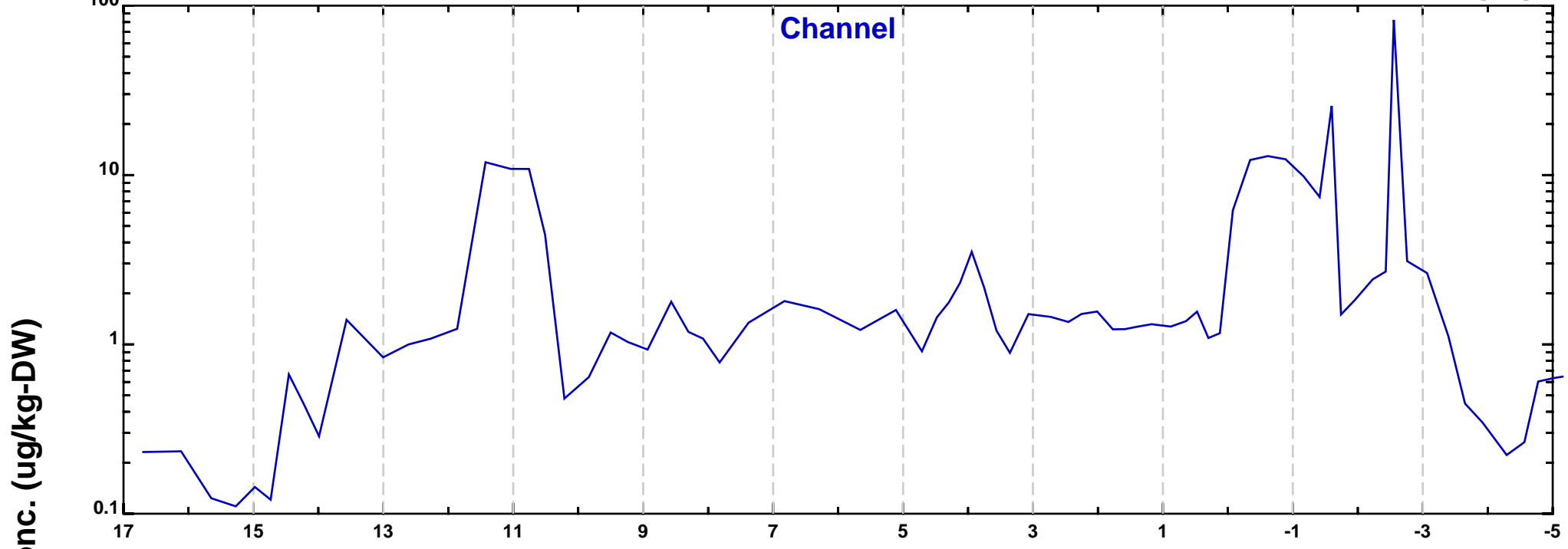






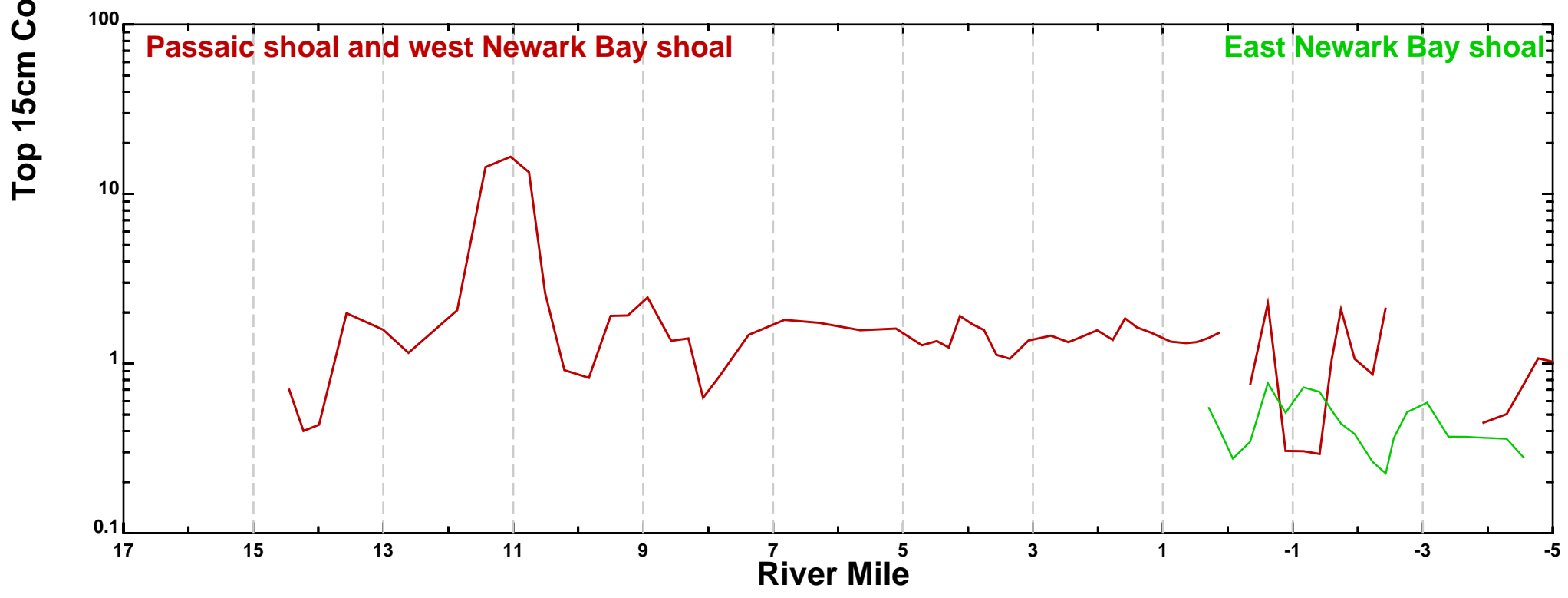
Year = 1996.0

BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

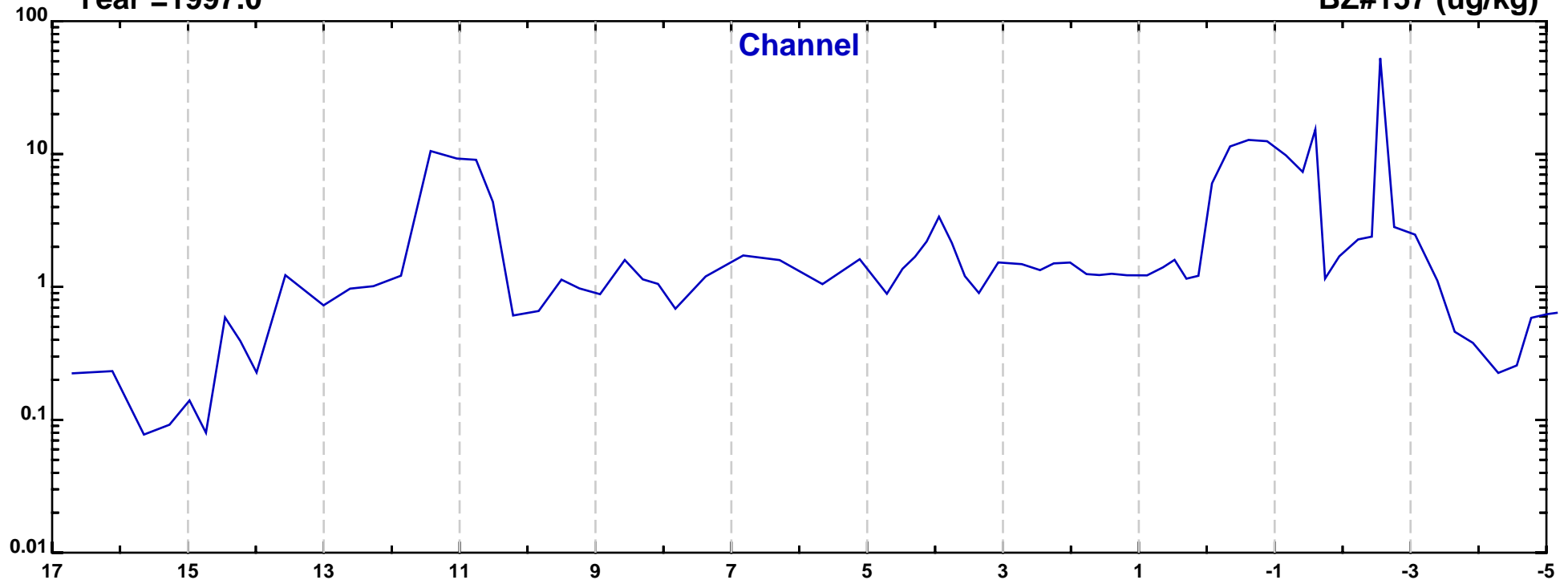


Year = 1997.0

BZ#157 (ug/kg)

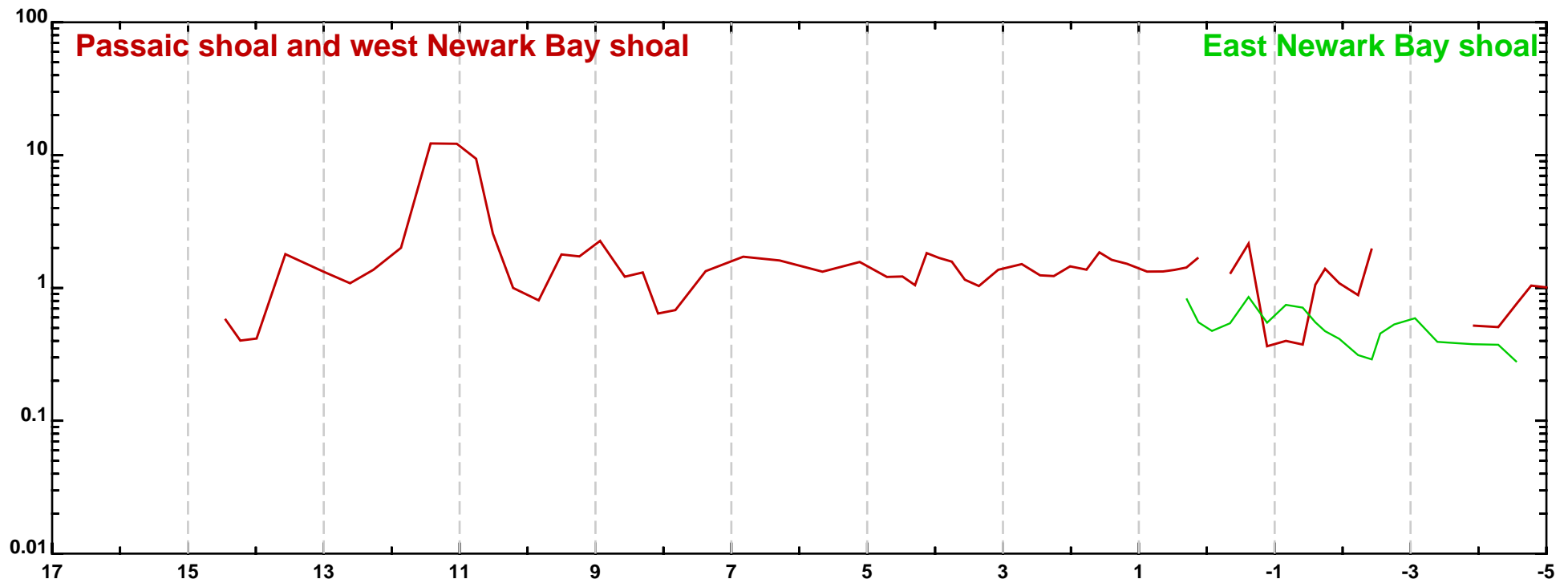
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

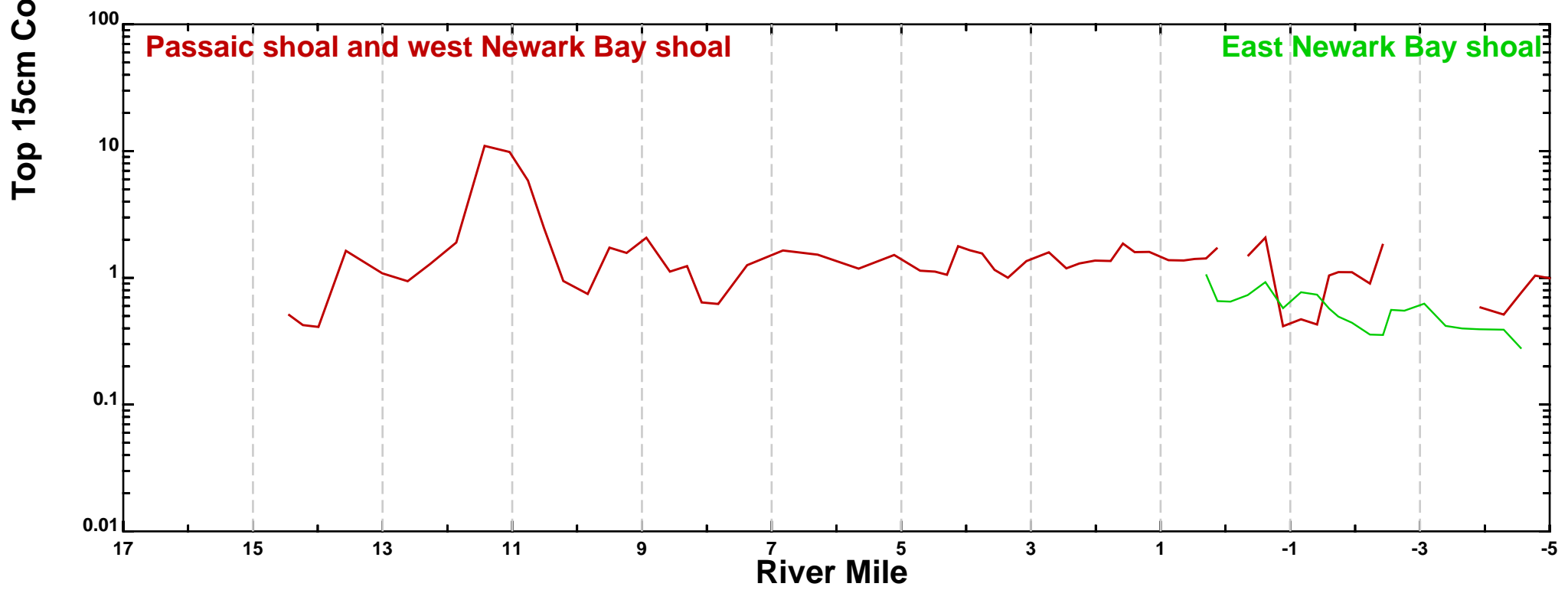
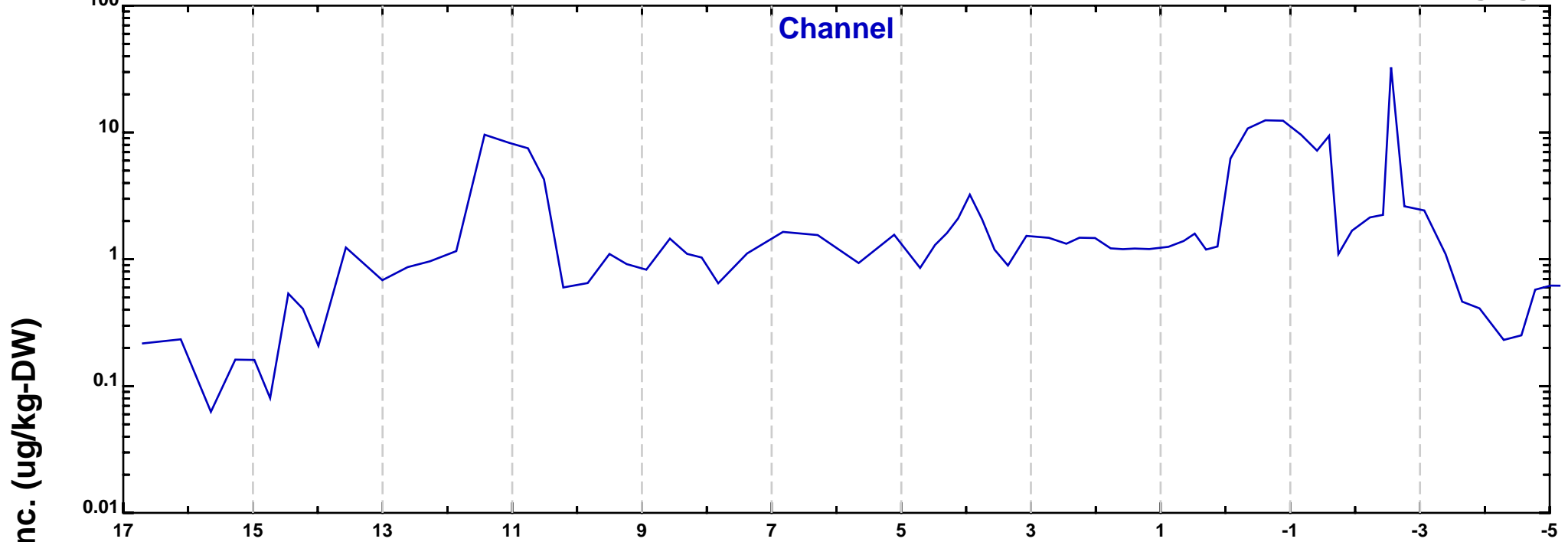
East Newark Bay shoal



River Mile

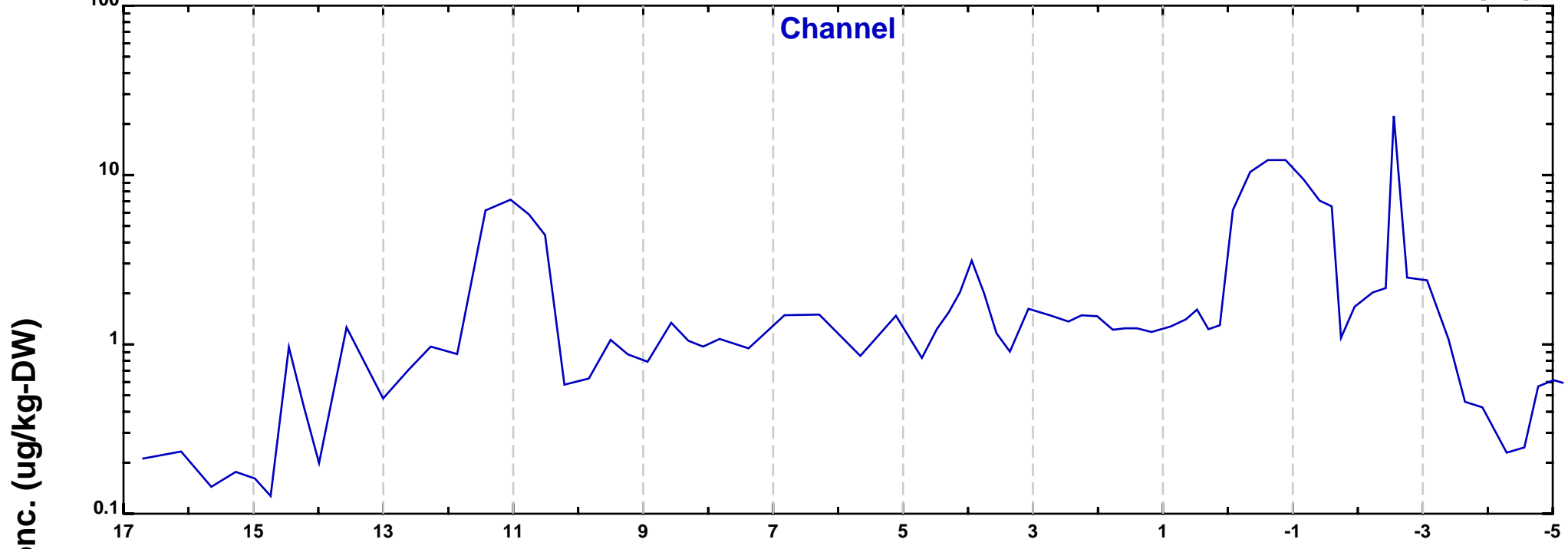
Year = 1998.0

BZ#157 (ug/kg)



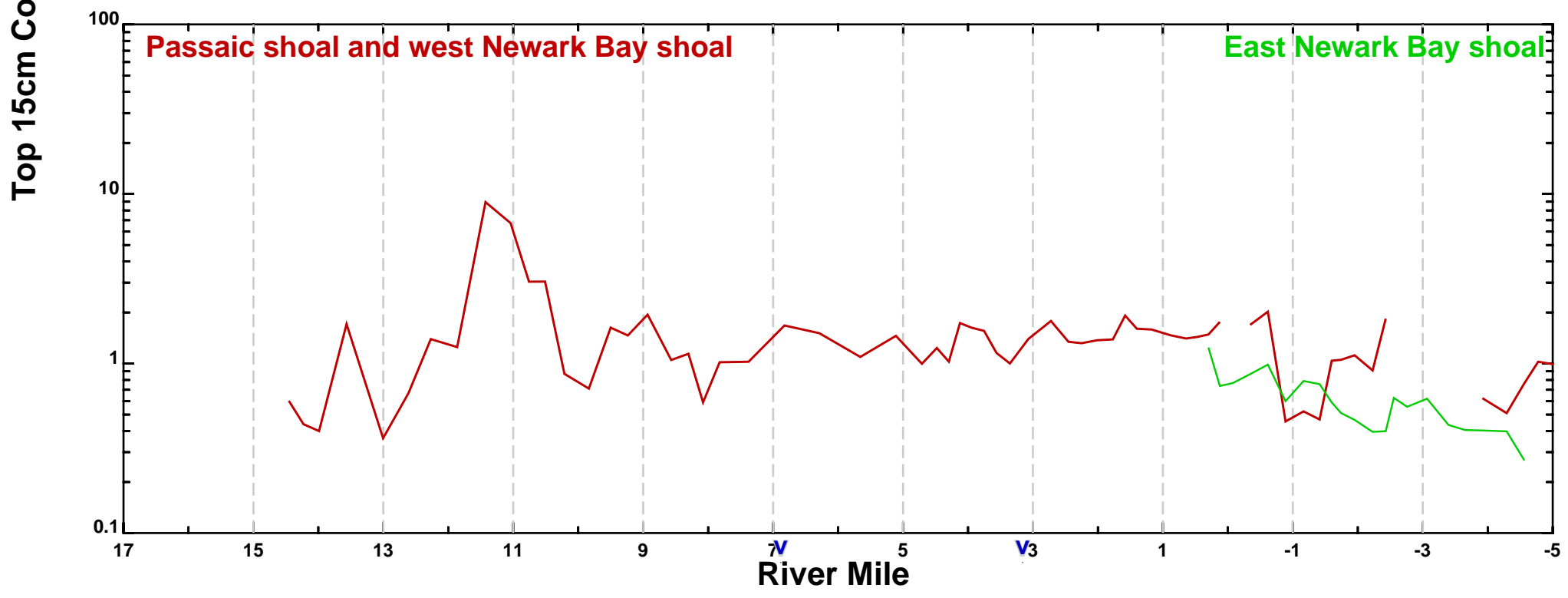
Year = 1999.0

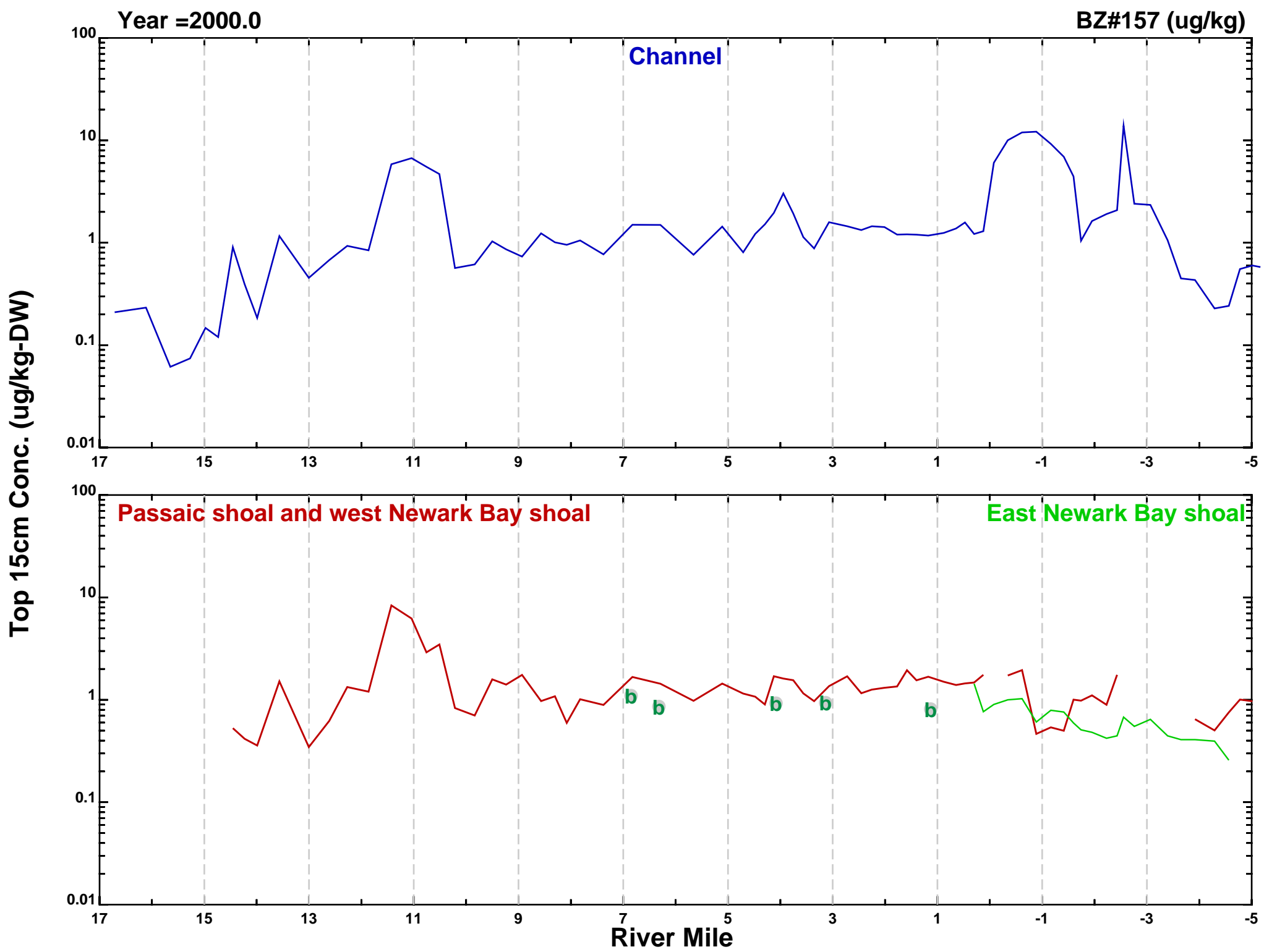
BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

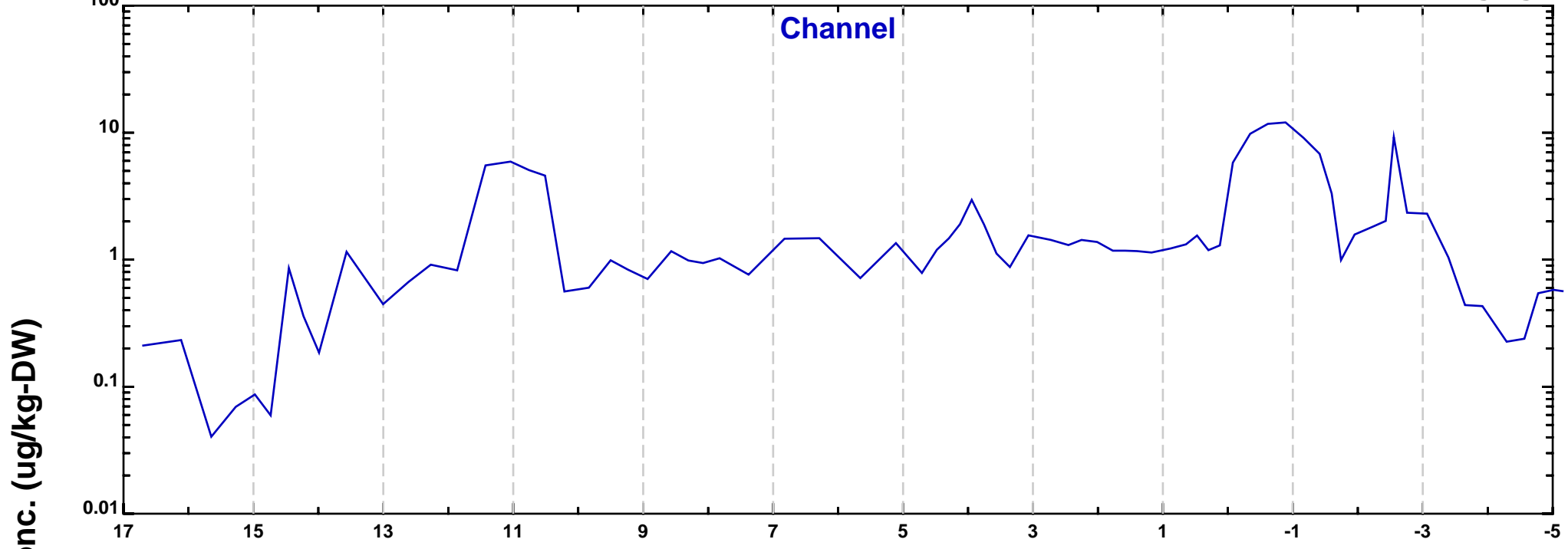
East Newark Bay shoal





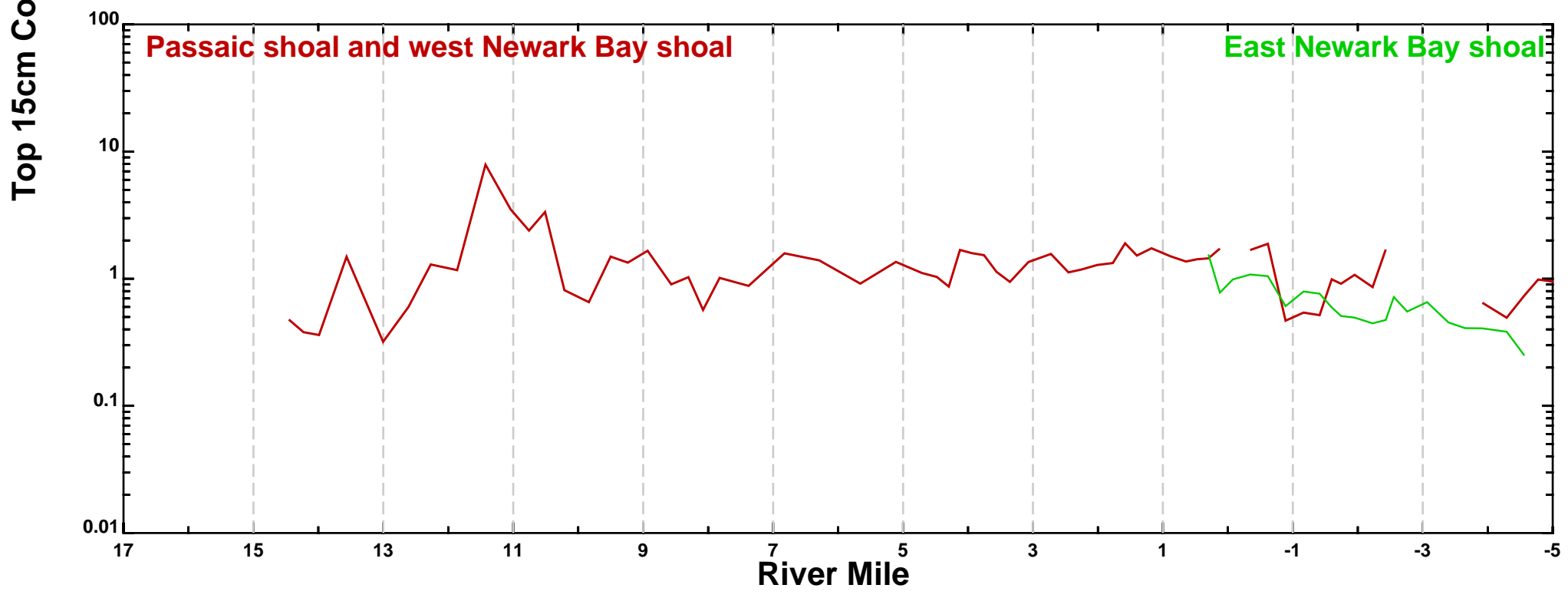
Year =2001.0

BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

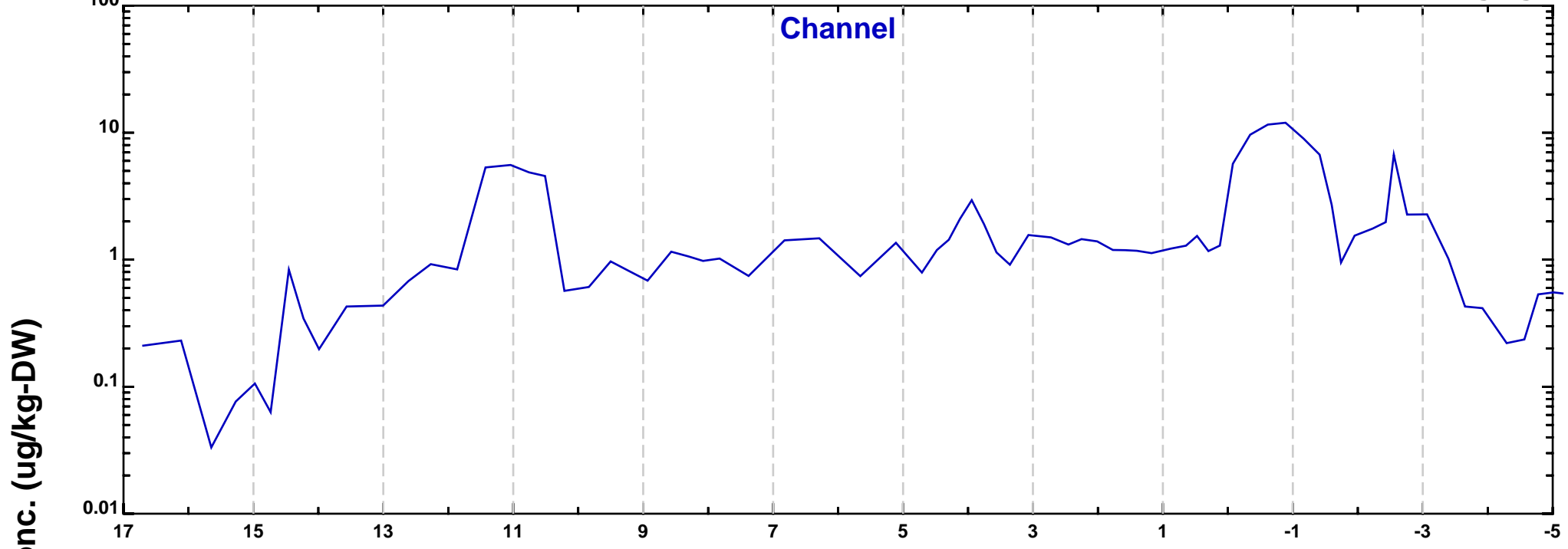
East Newark Bay shoal



River Mile

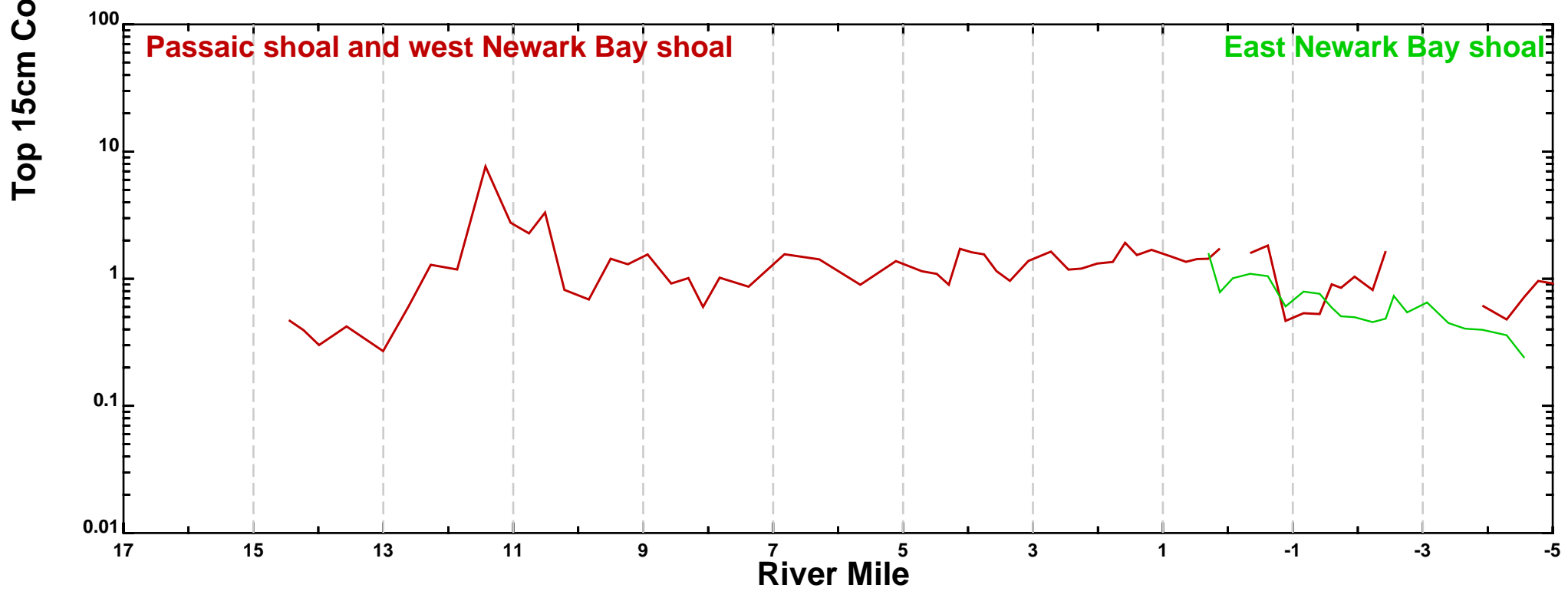
Year =2002.0

BZ#157 (ug/kg)



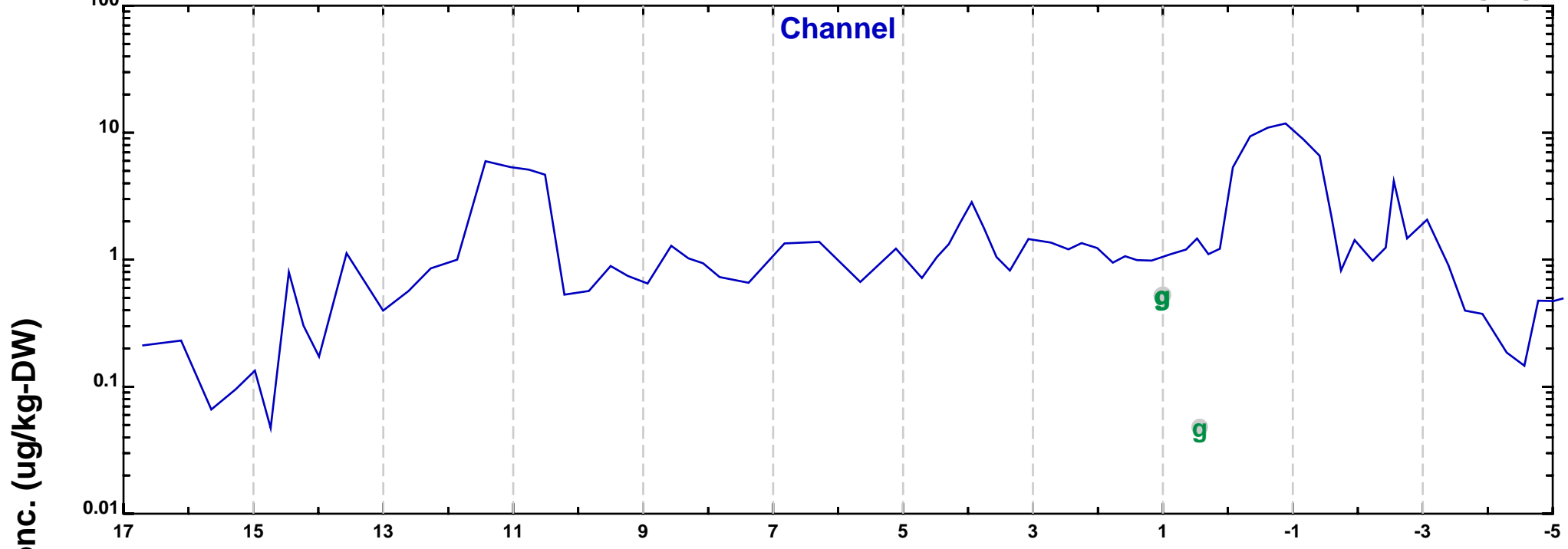
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



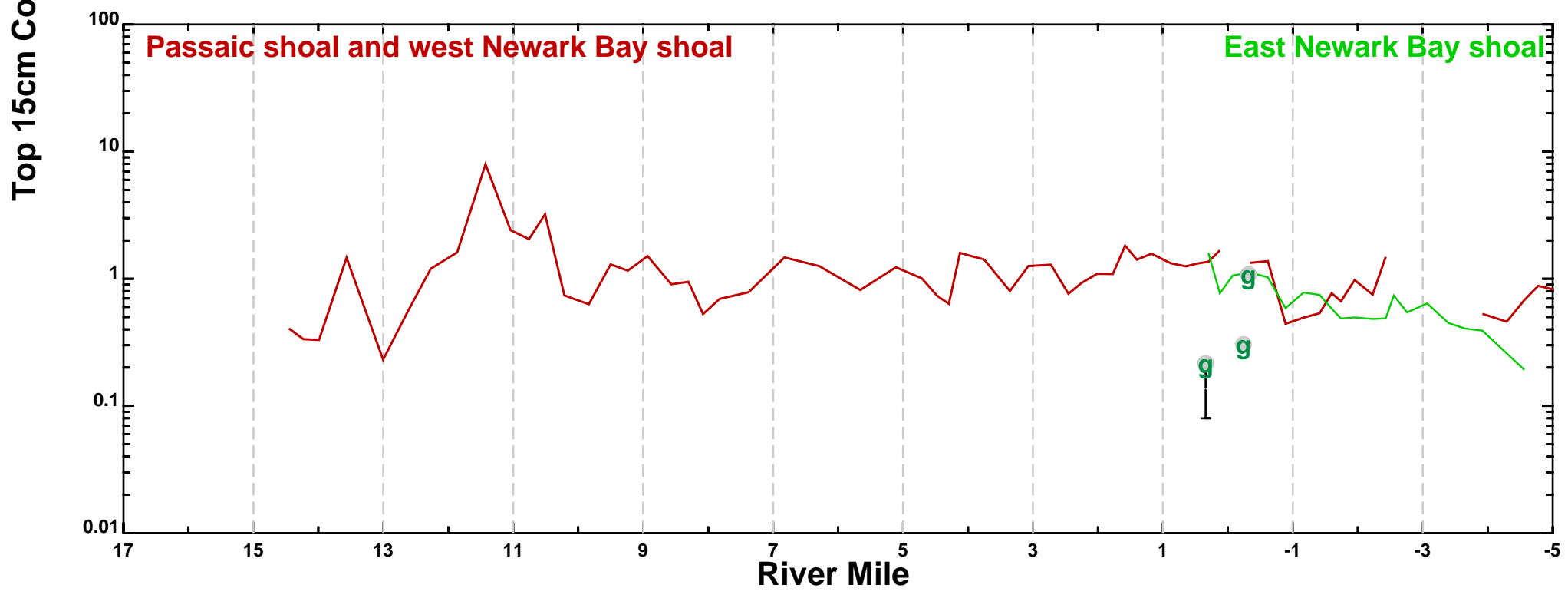
Year =2003.0

BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

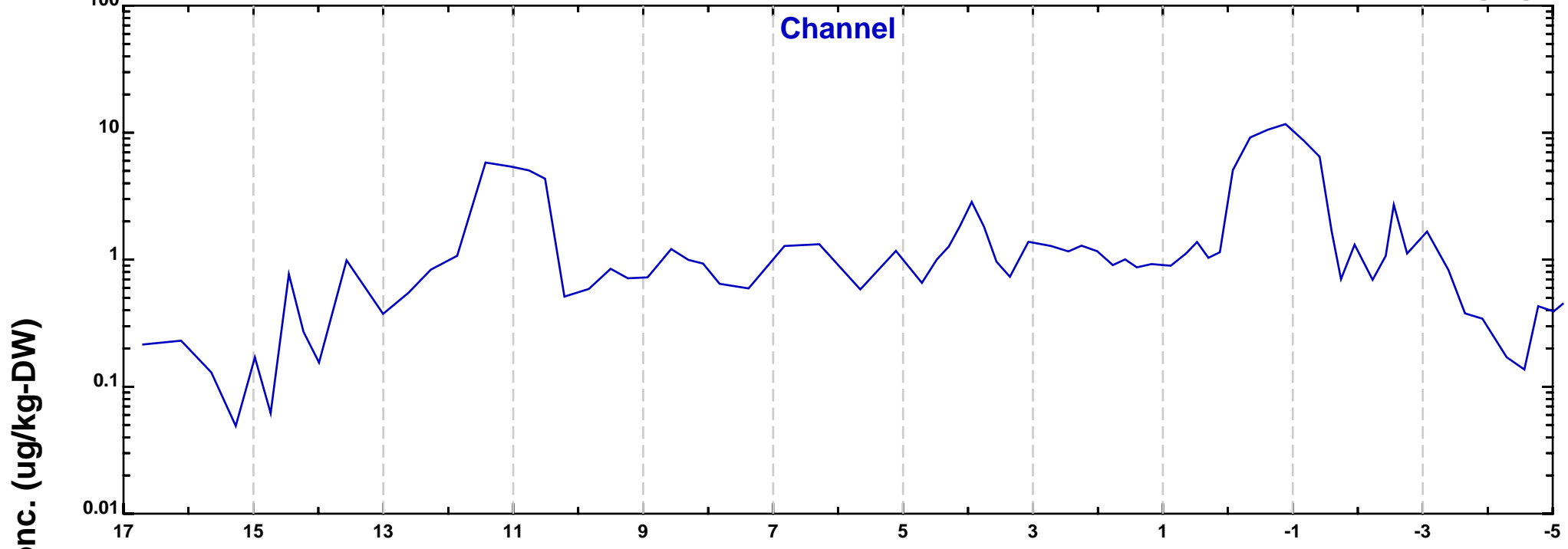
East Newark Bay shoal





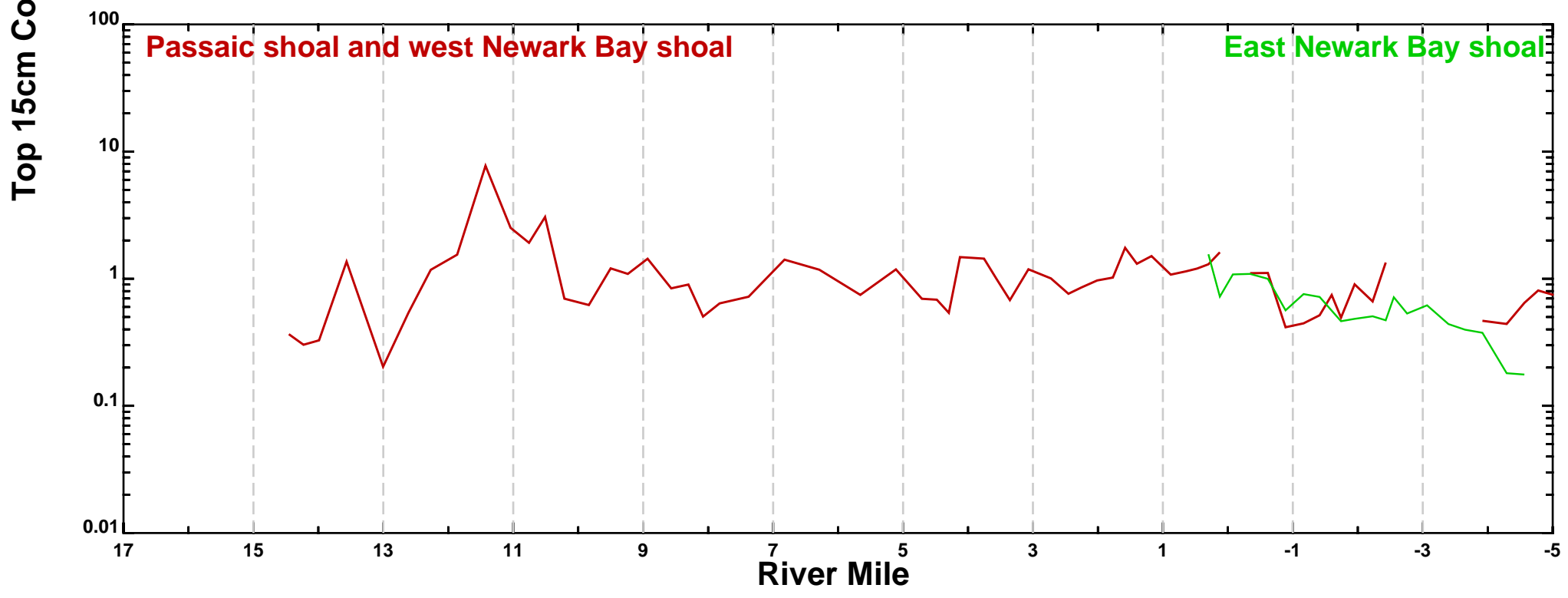
Year =2004.0

BZ#157 (ug/kg)



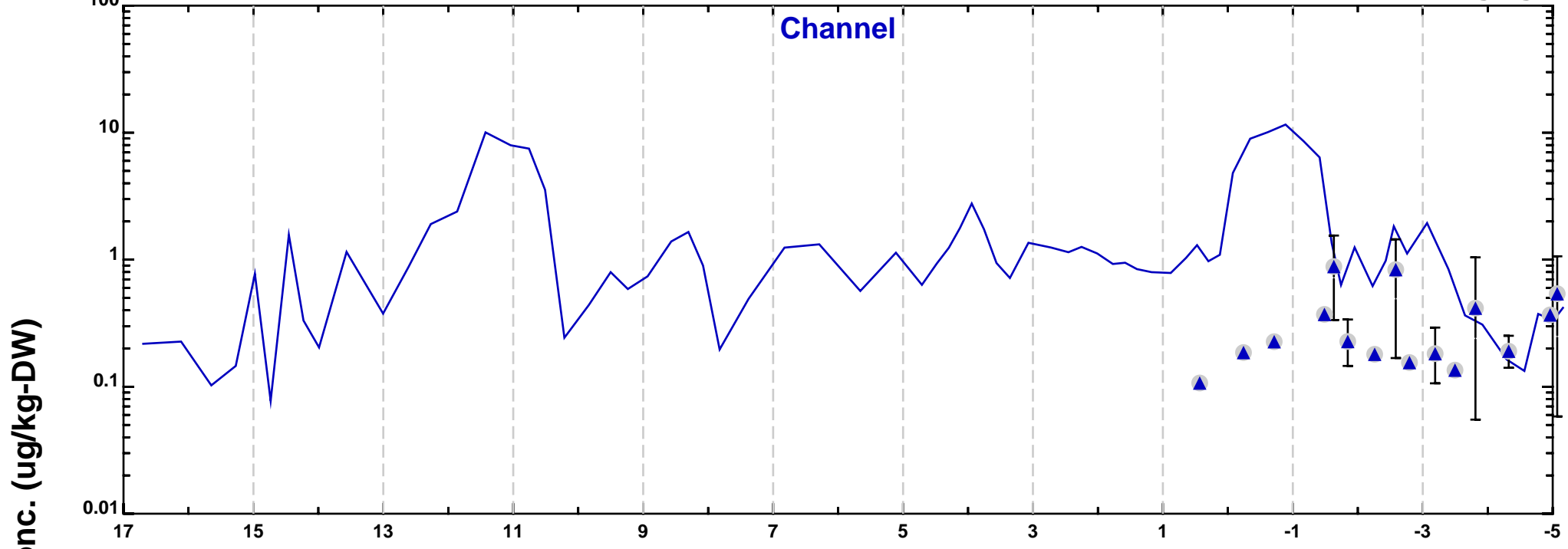
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



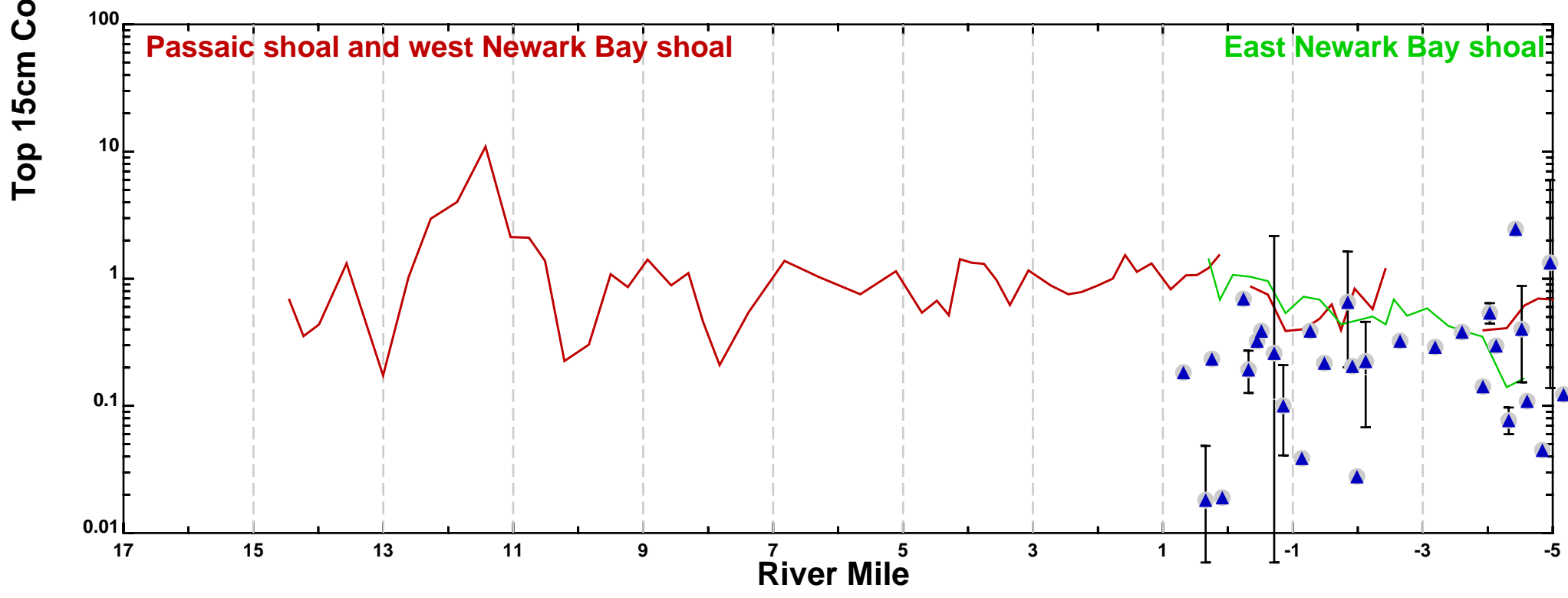
Year =2005.0

BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

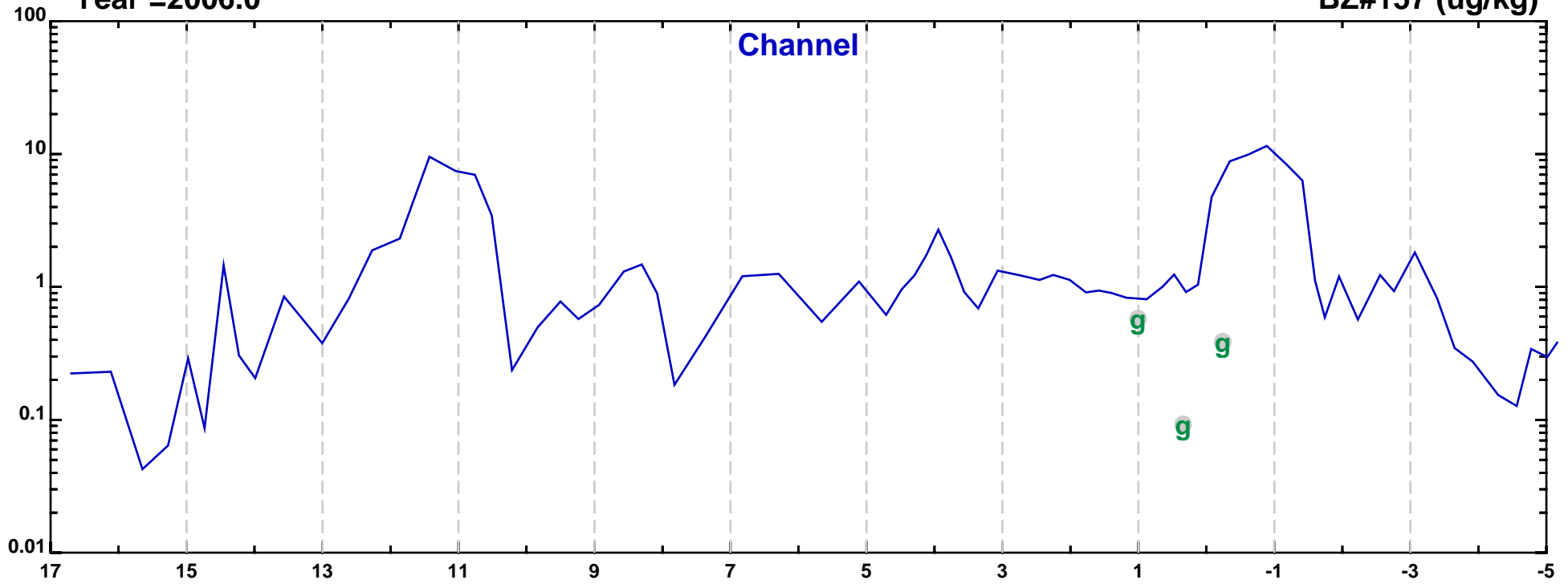


Year =2006.0

BZ#157 (ug/kg)

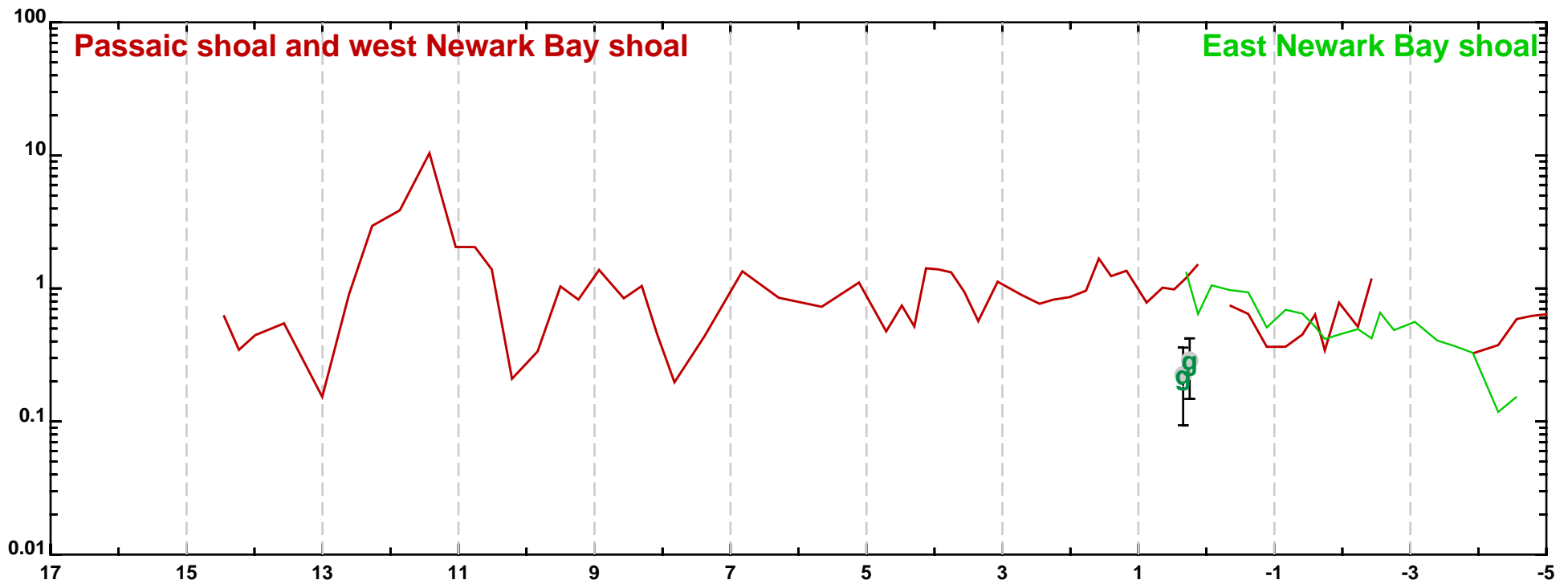
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



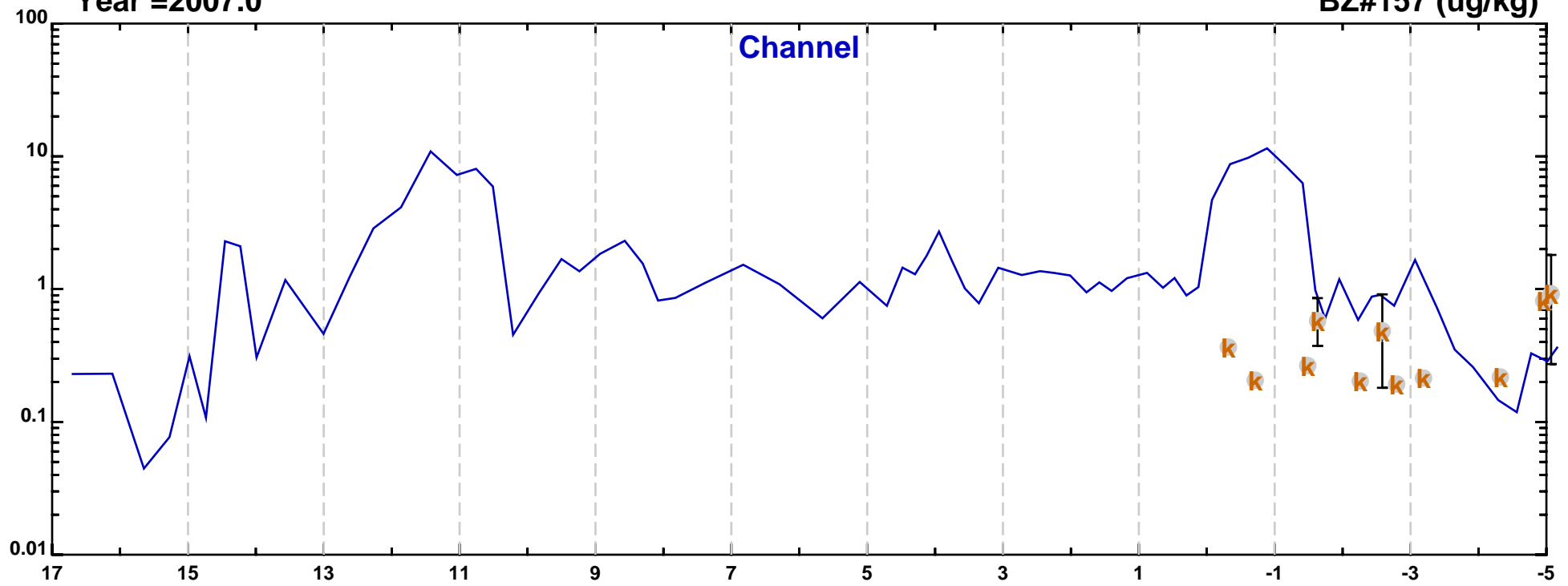
River Mile

Year =2007.0

BZ#157 (ug/kg)

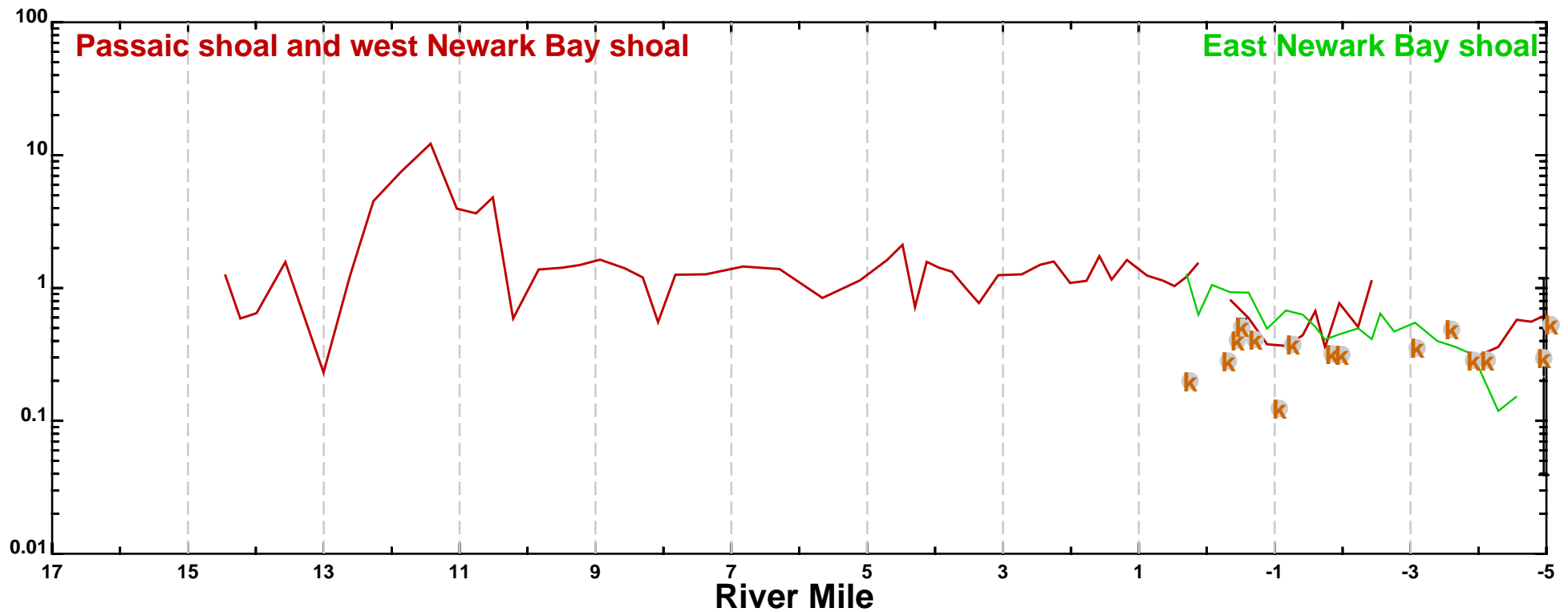
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

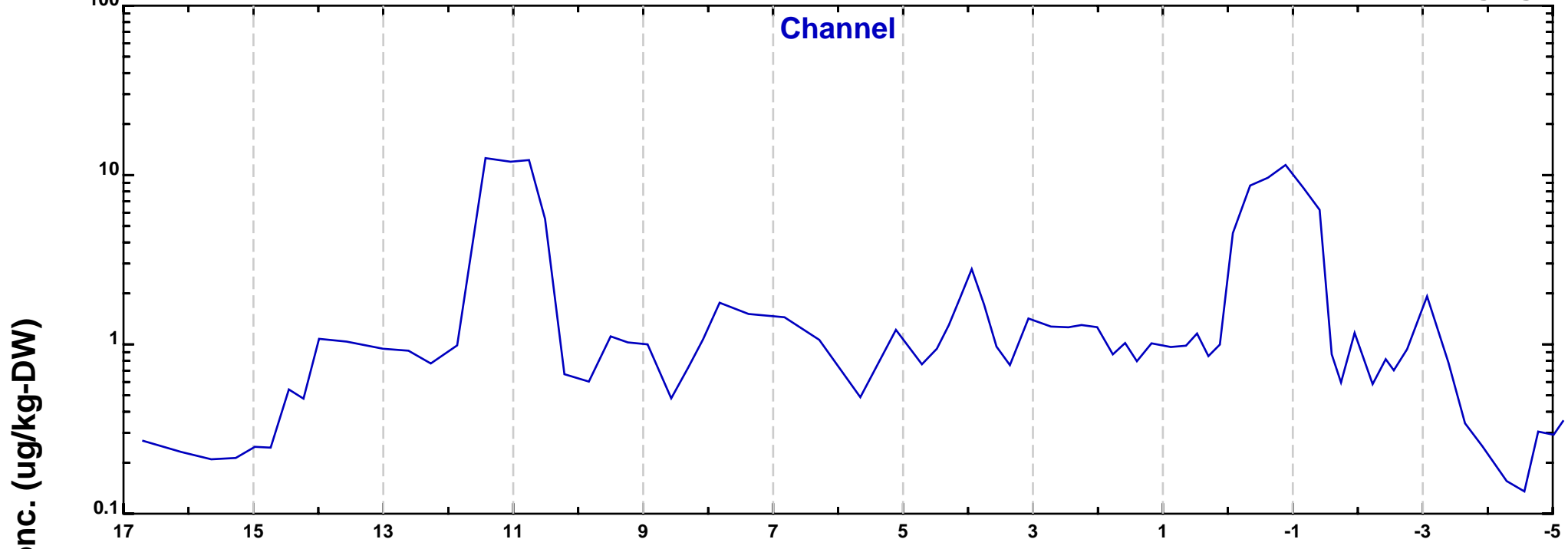
East Newark Bay shoal



River Mile

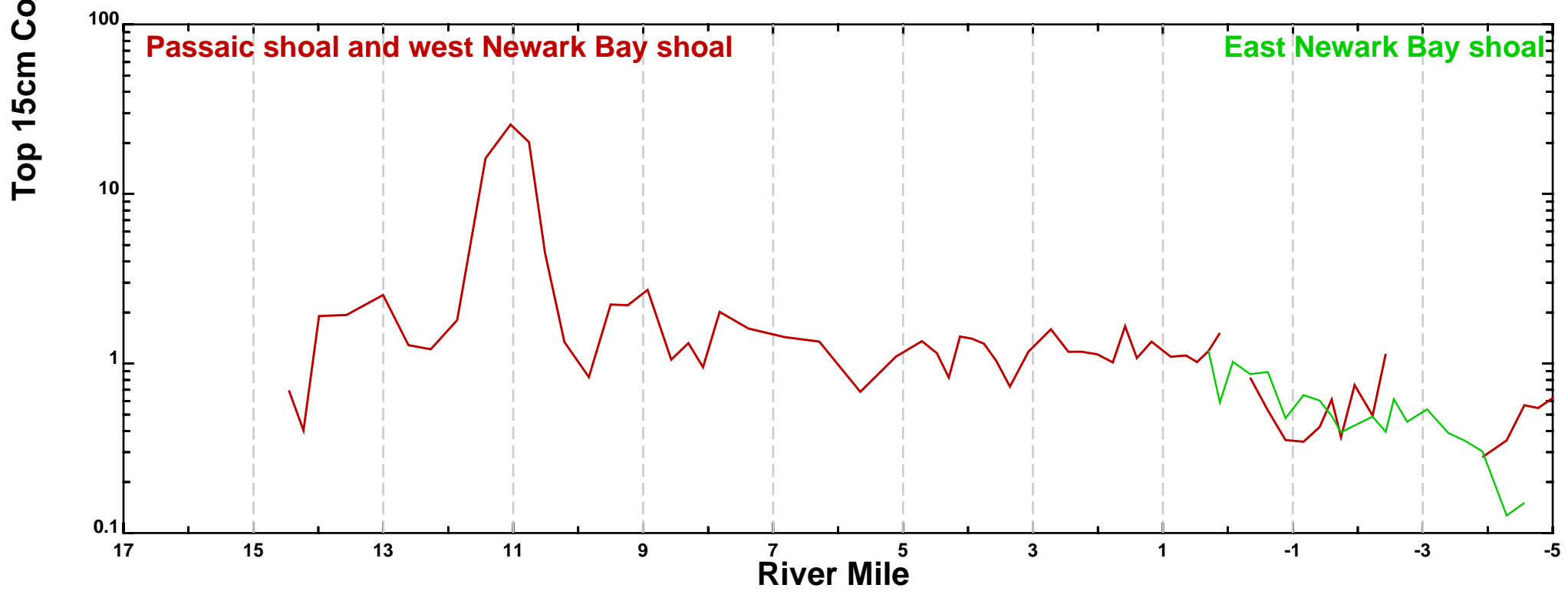
Year =2008.0

BZ#157 (ug/kg)



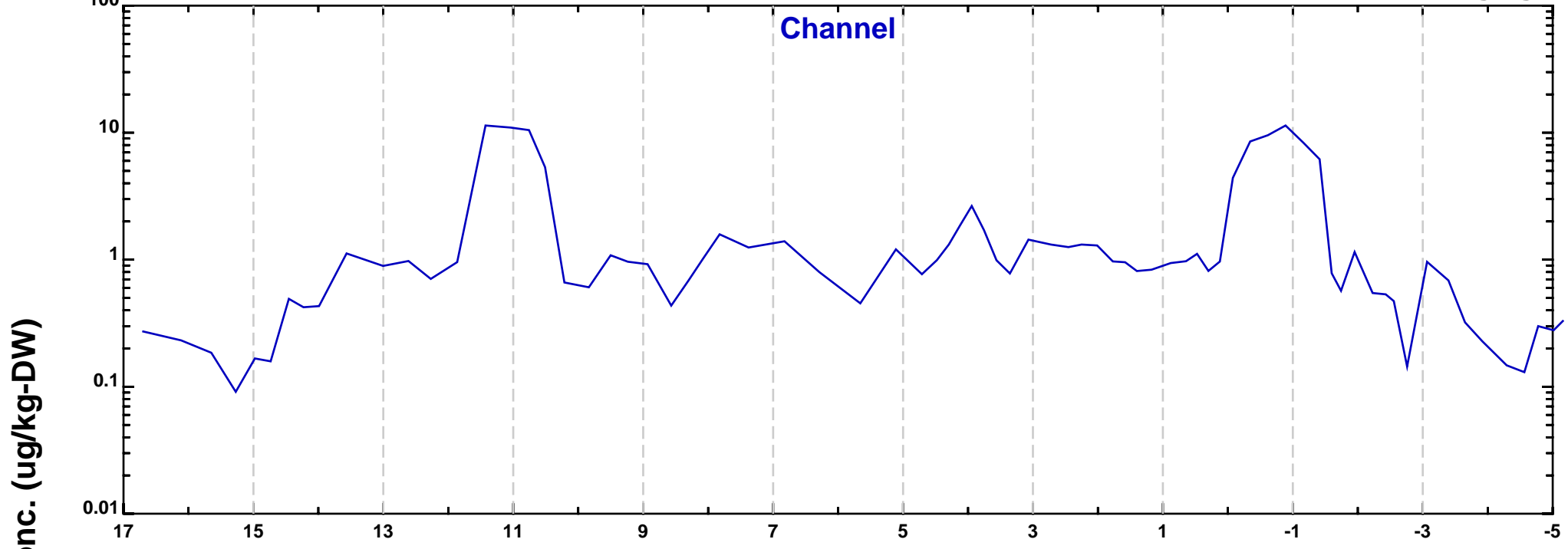
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



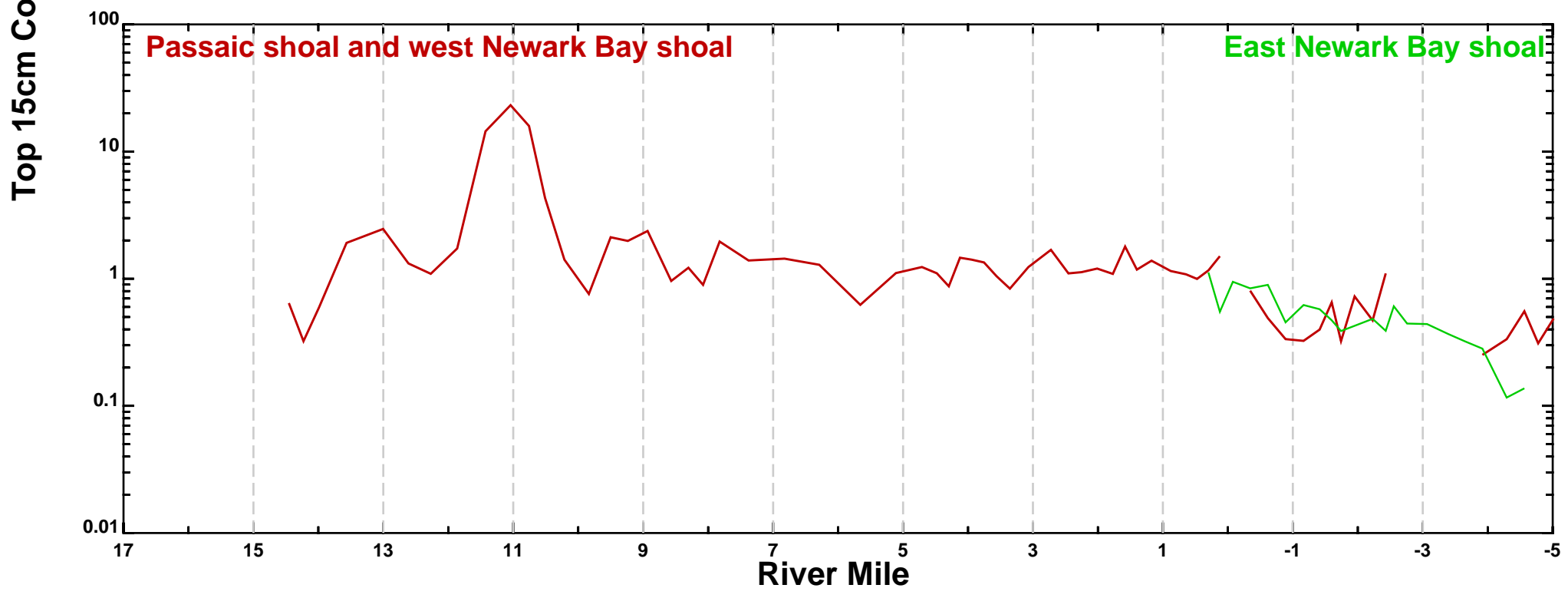
Year =2009.0

BZ#157 (ug/kg)



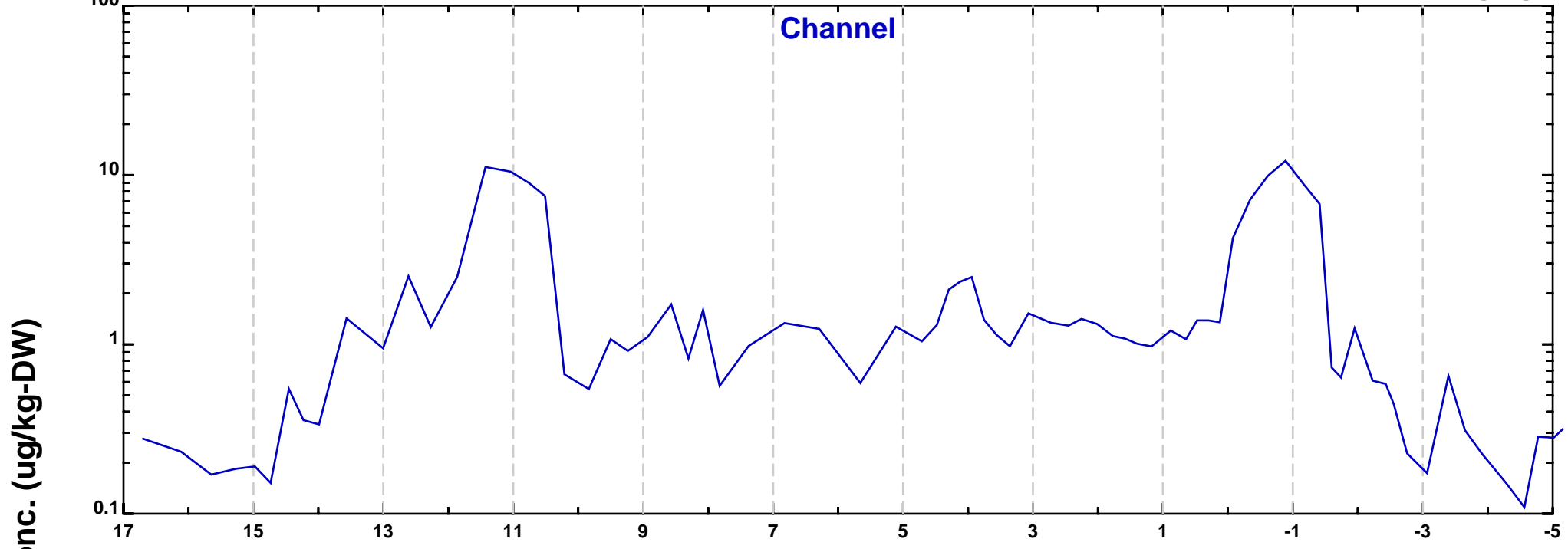
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



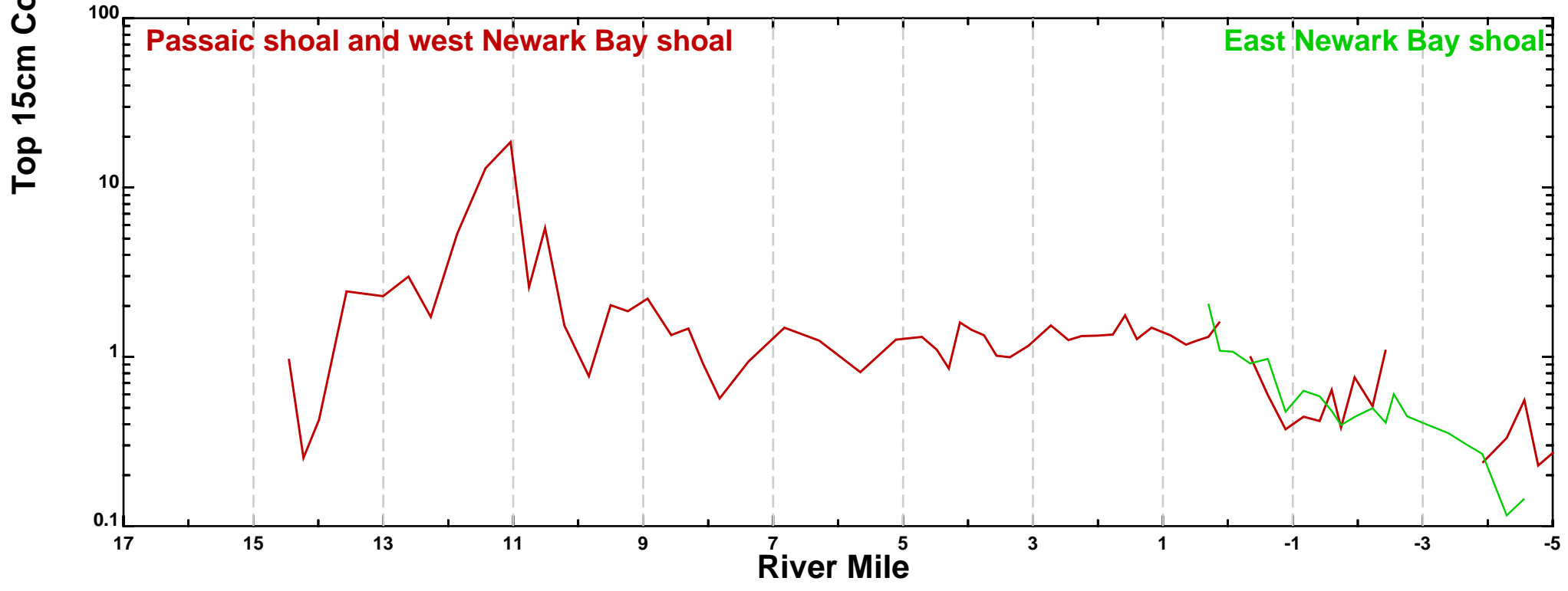
Year =2010.0

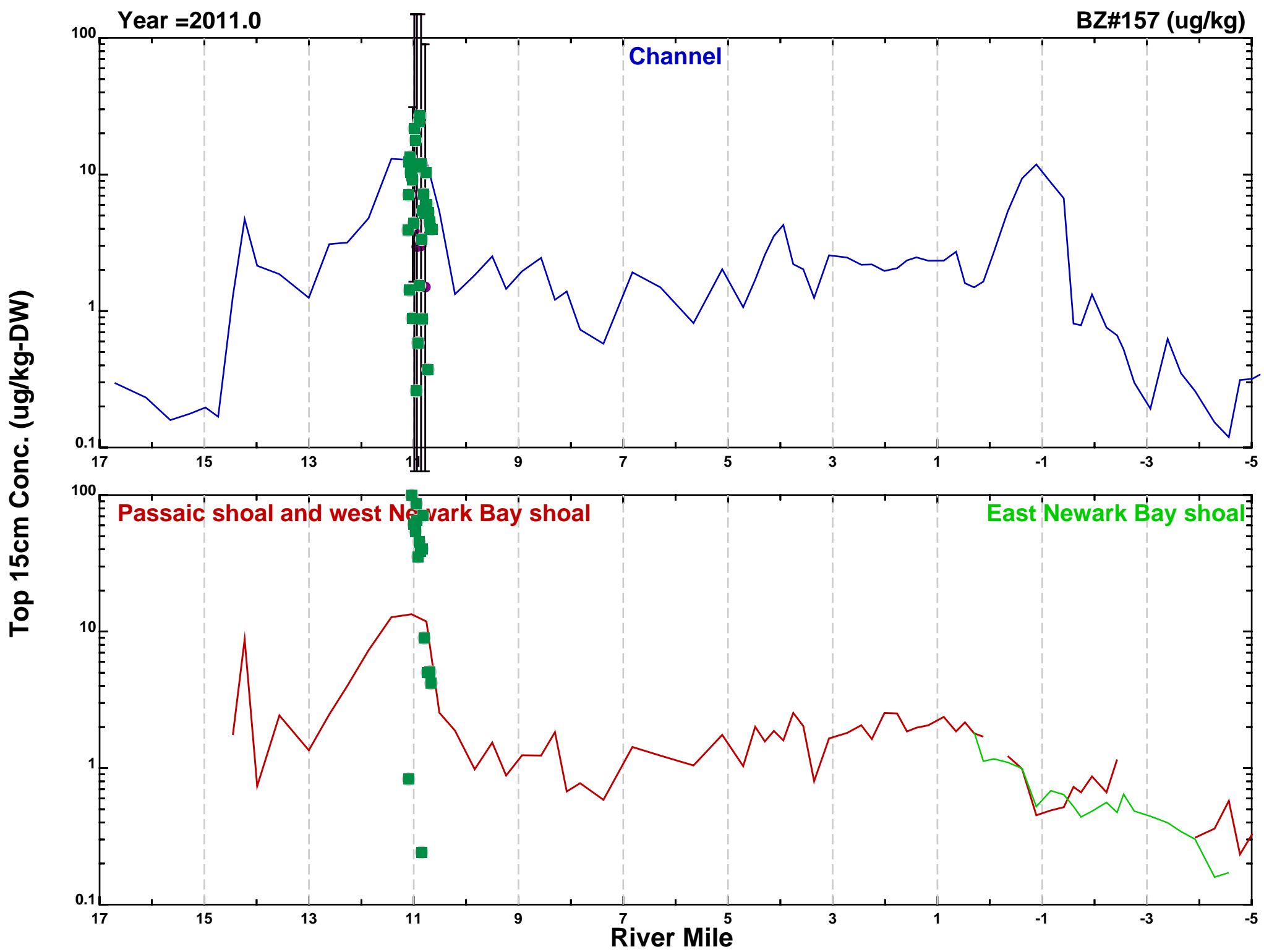
BZ#157 (ug/kg)



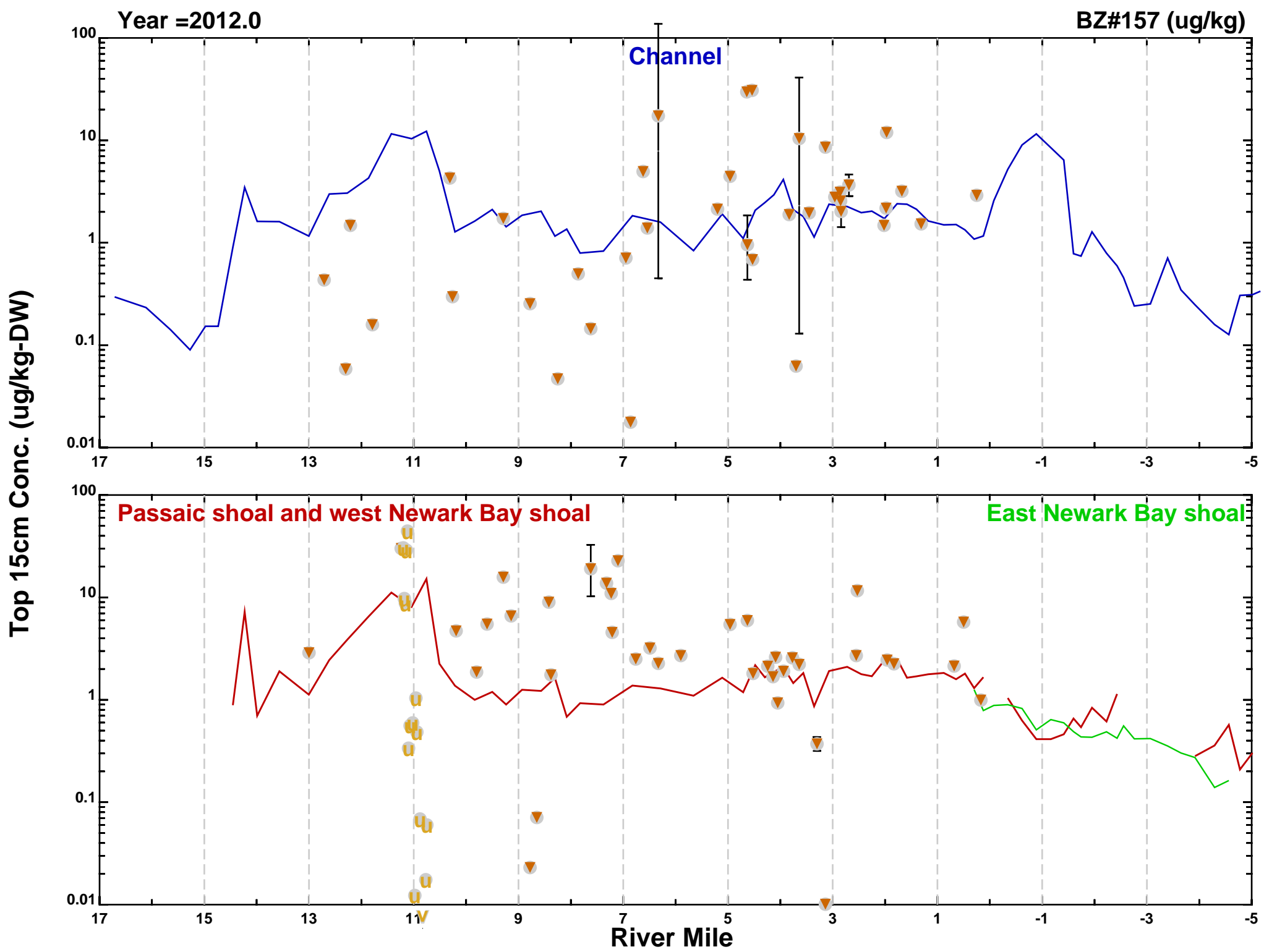
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



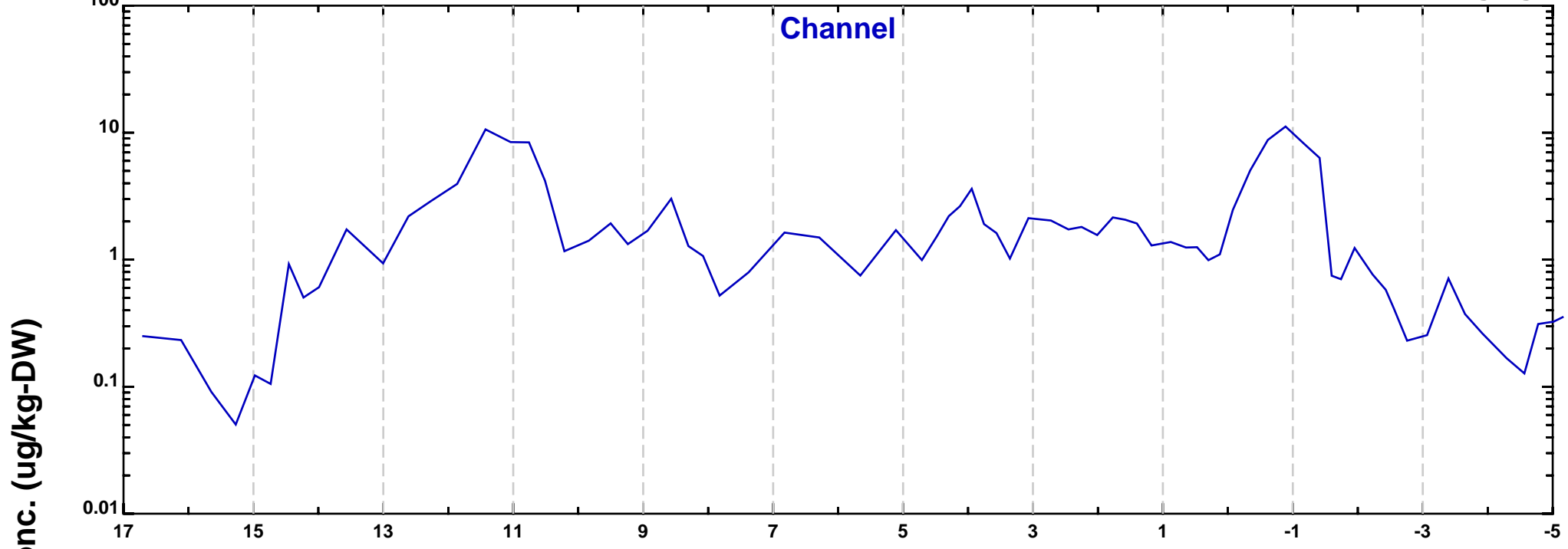






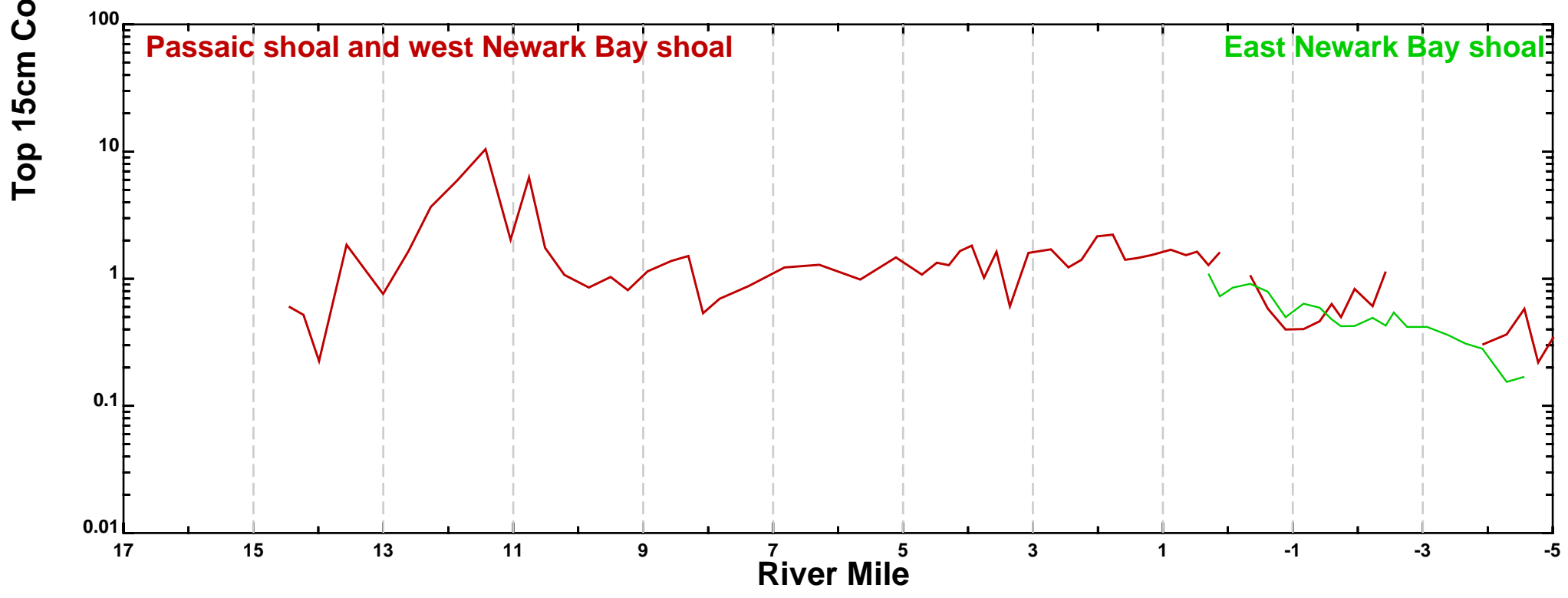
Year =2013.0

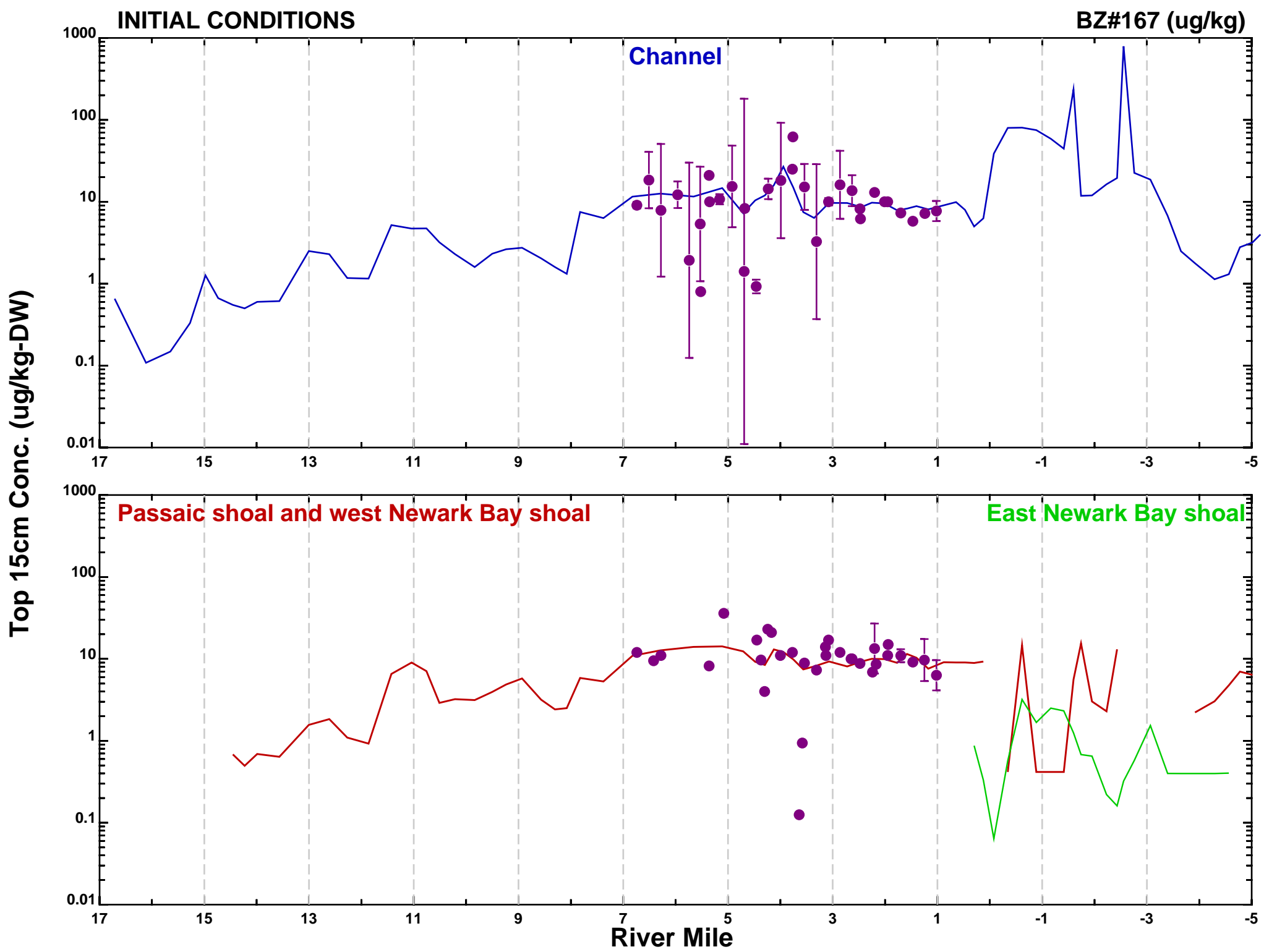
BZ#157 (ug/kg)



Passaic shoal and west Newark Bay shoal

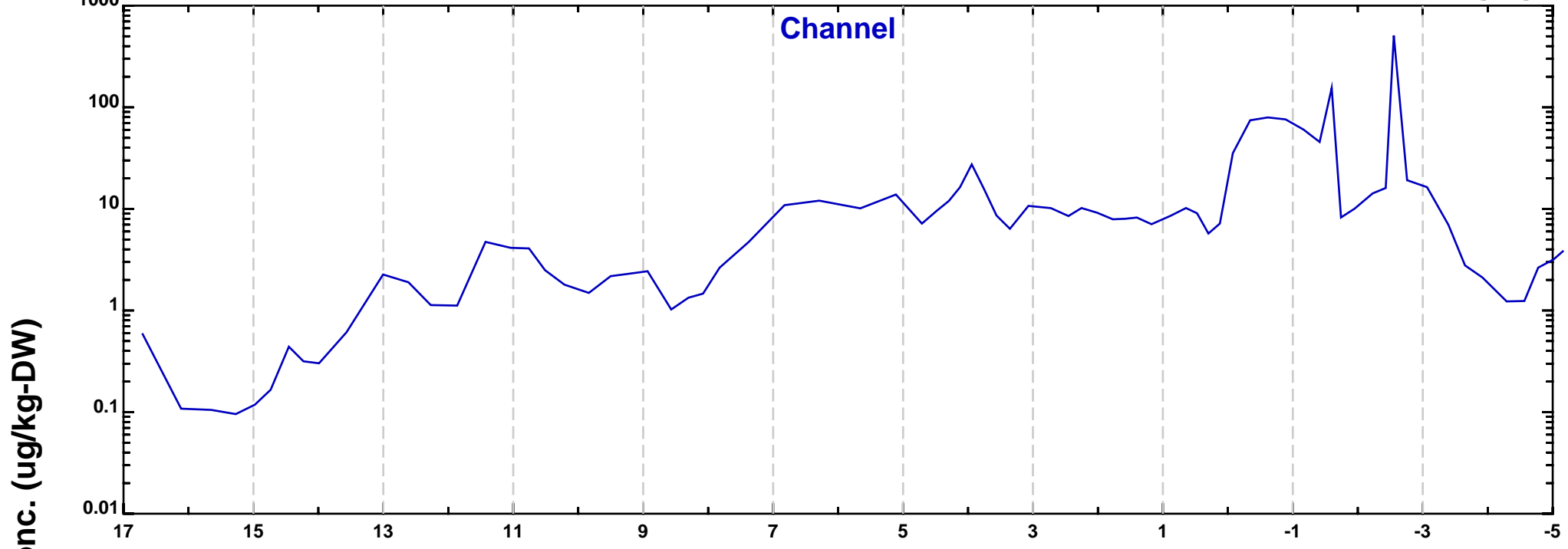
East Newark Bay shoal





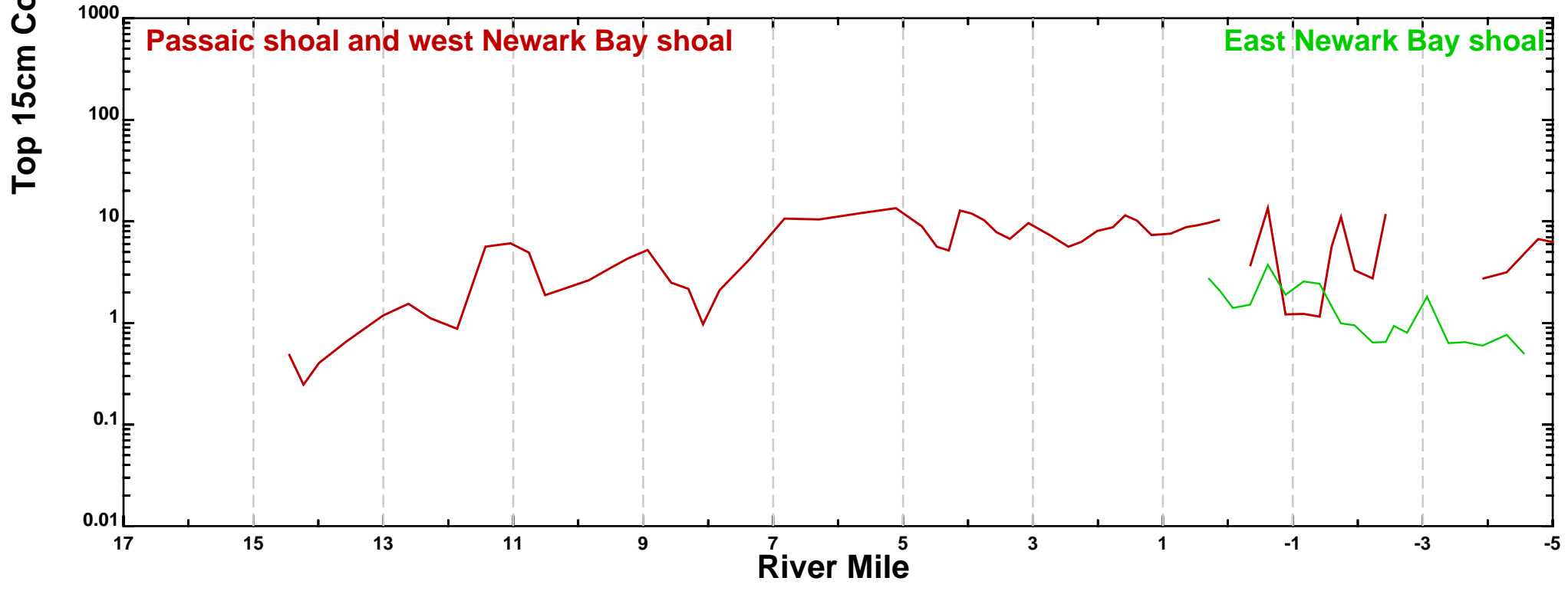
Year = 1996.0

BZ#167 (ug/kg)



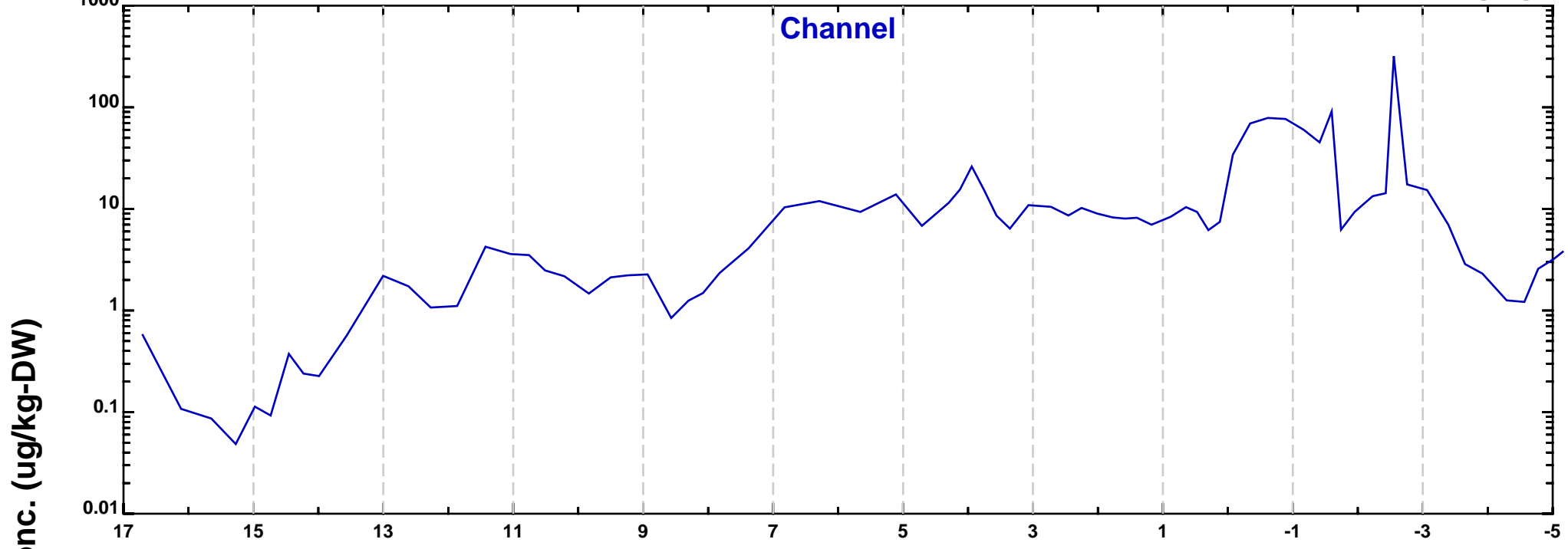
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



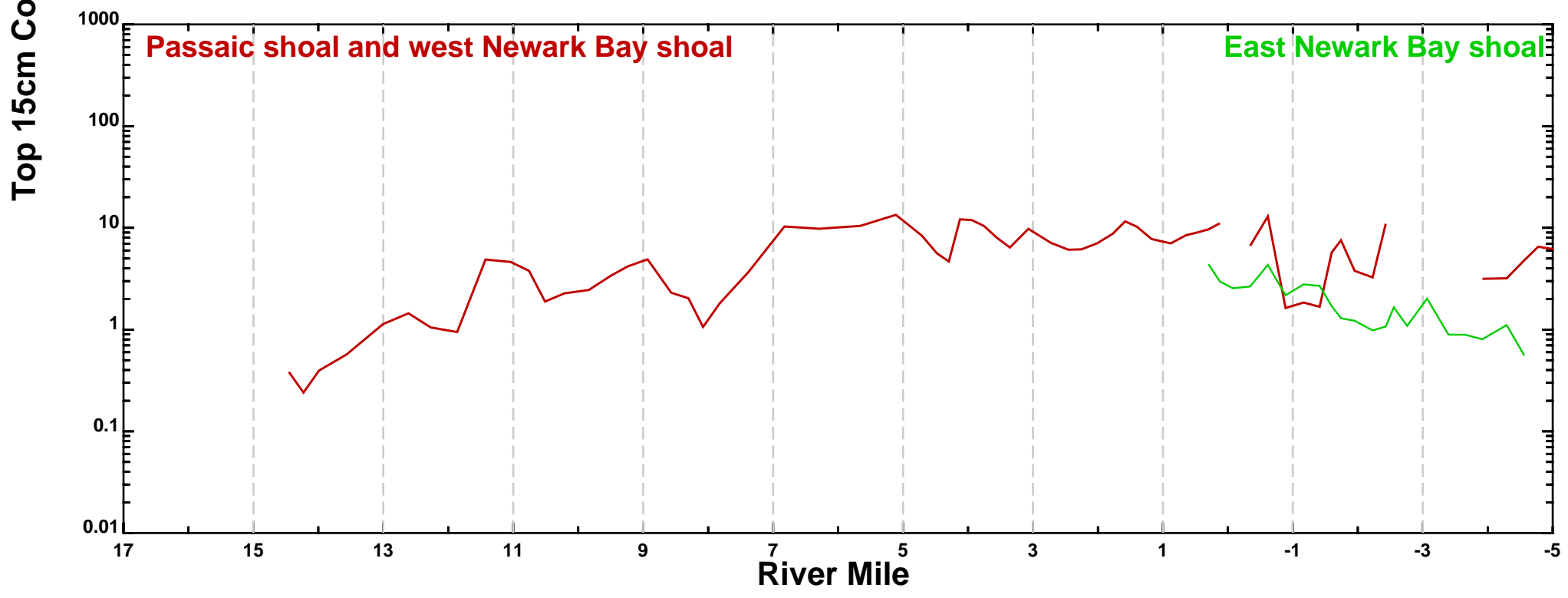
Year = 1997.0

BZ#167 (ug/kg)



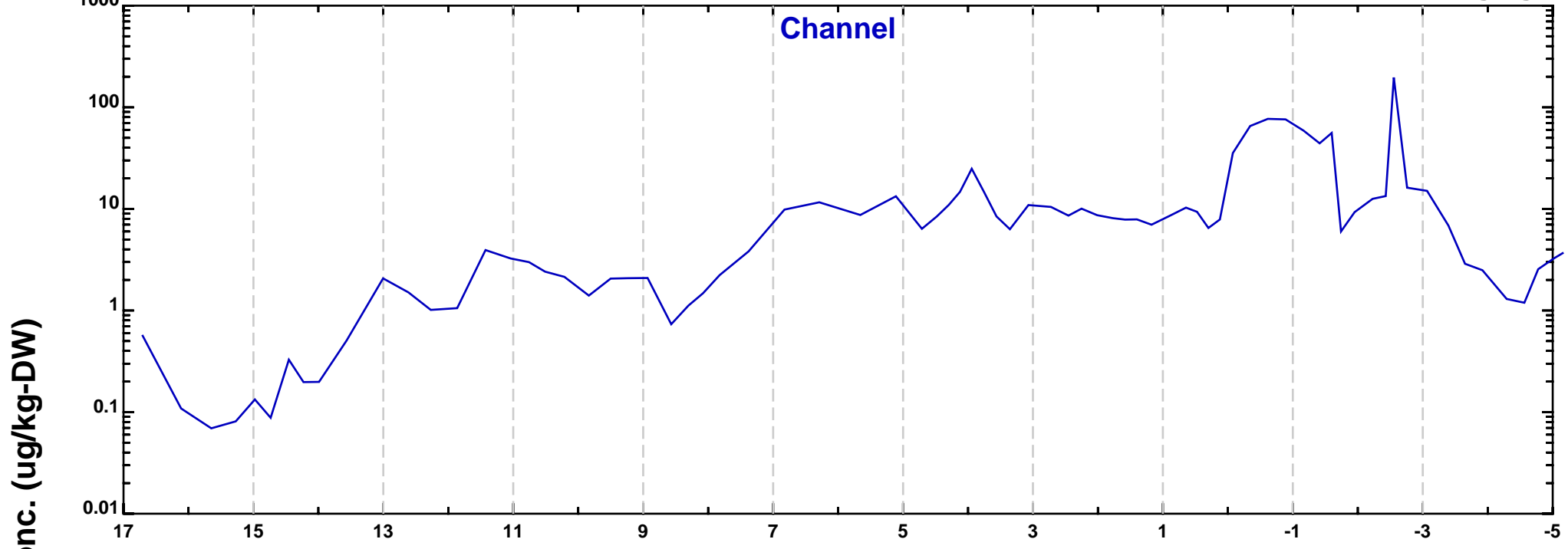
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



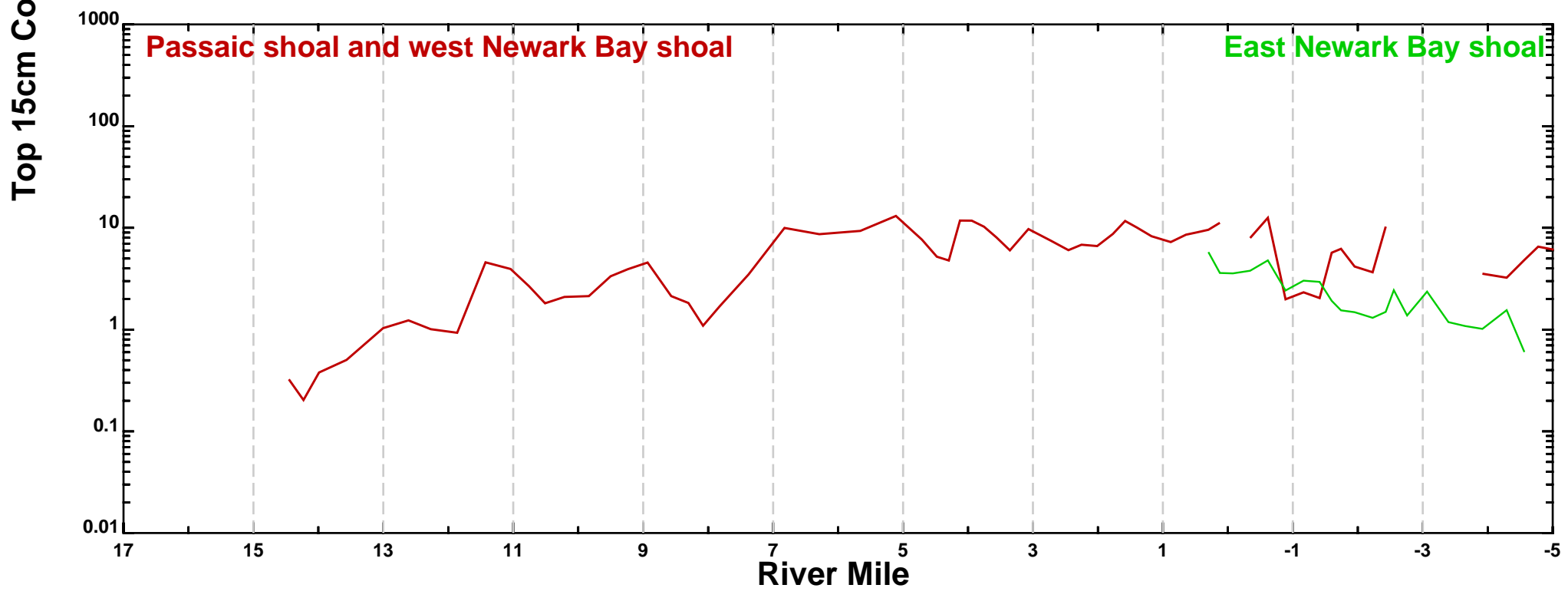
Year = 1998.0

BZ#167 (ug/kg)



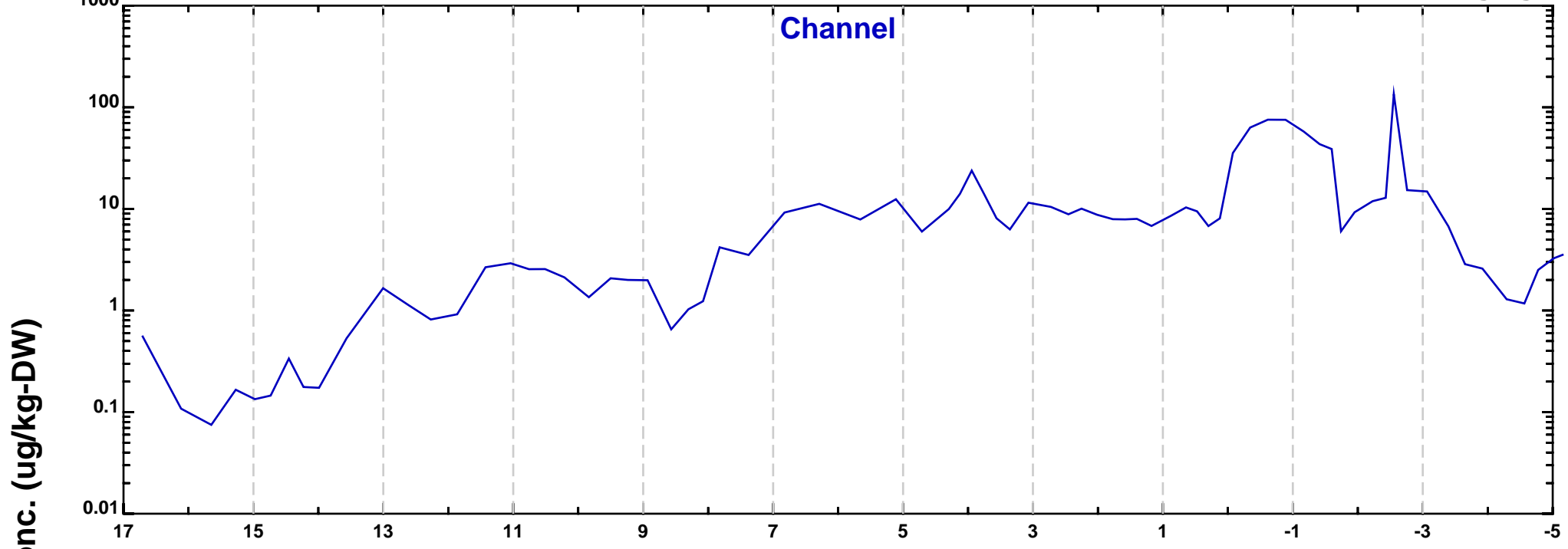
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



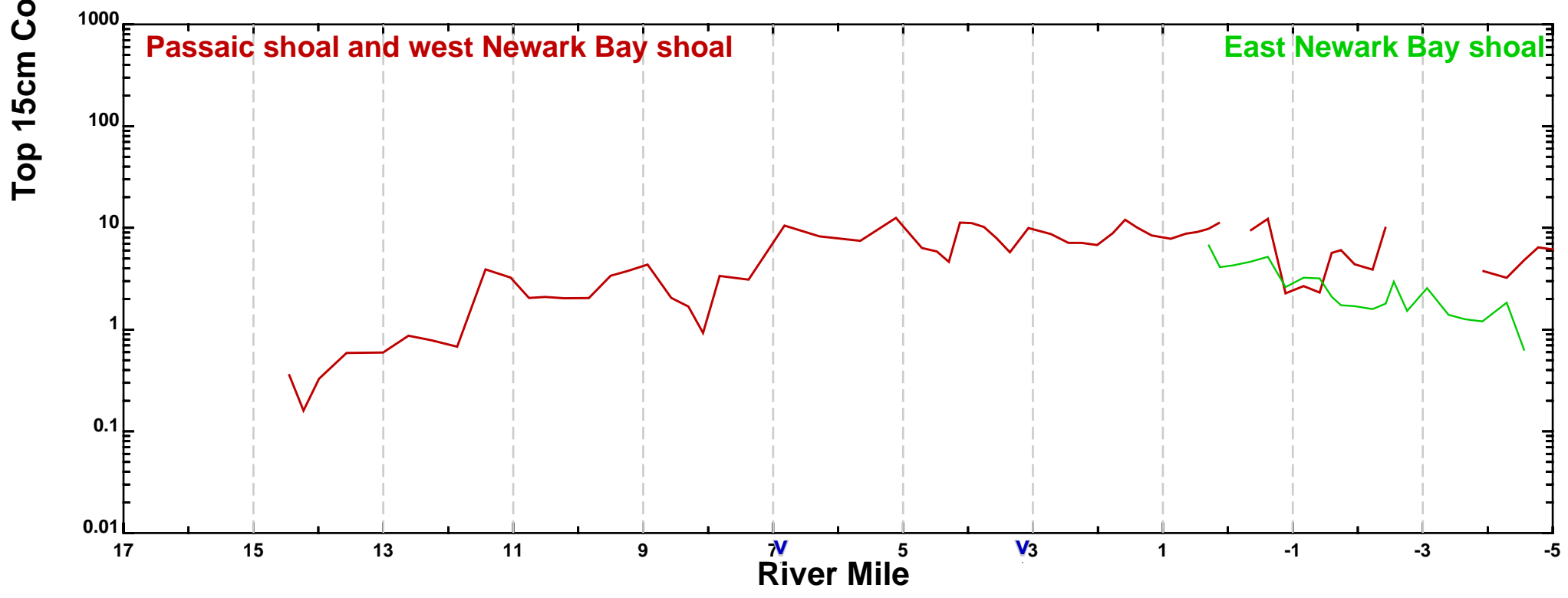
Year = 1999.0

BZ#167 (ug/kg)

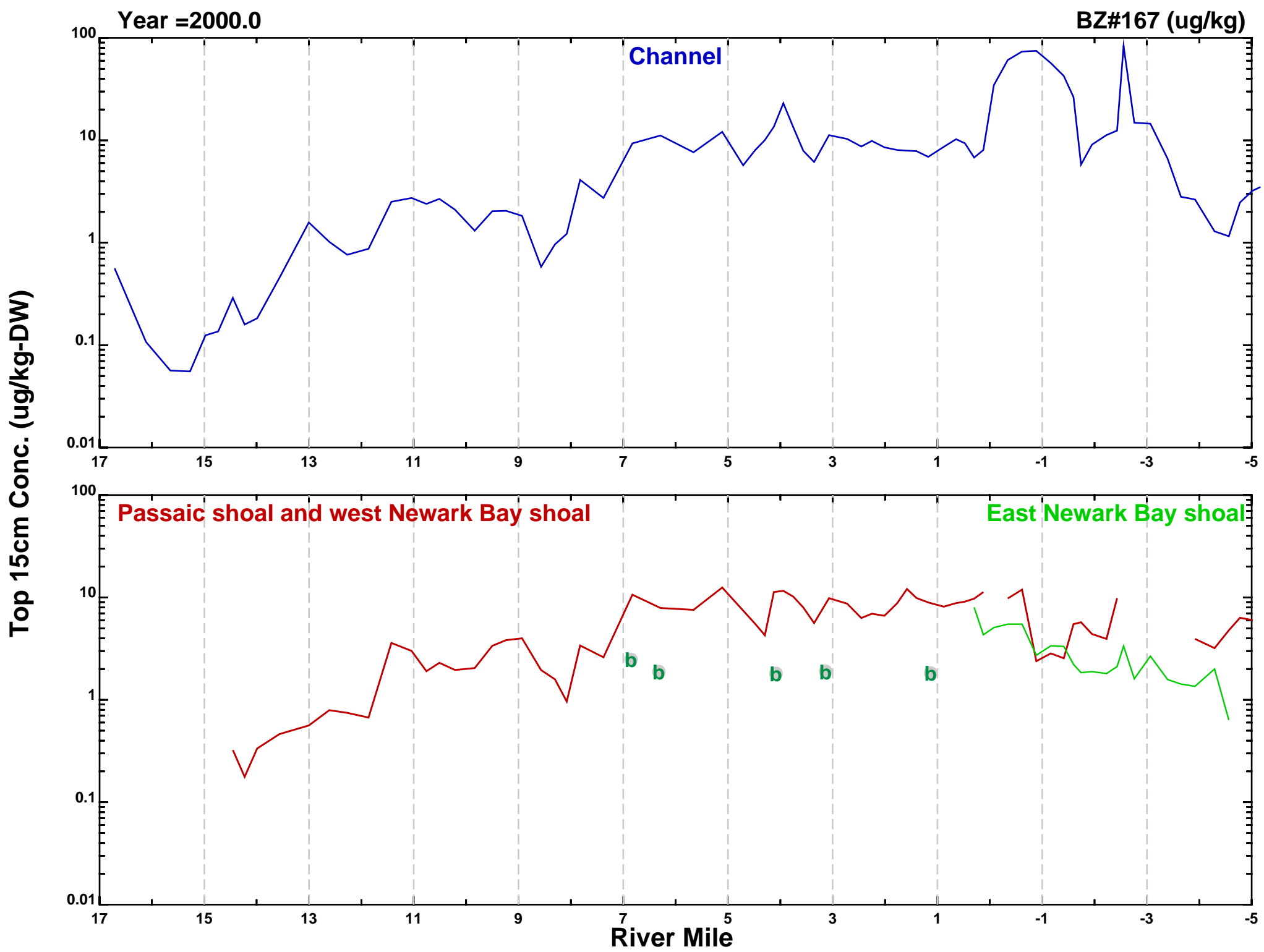


Passaic shoal and west Newark Bay shoal

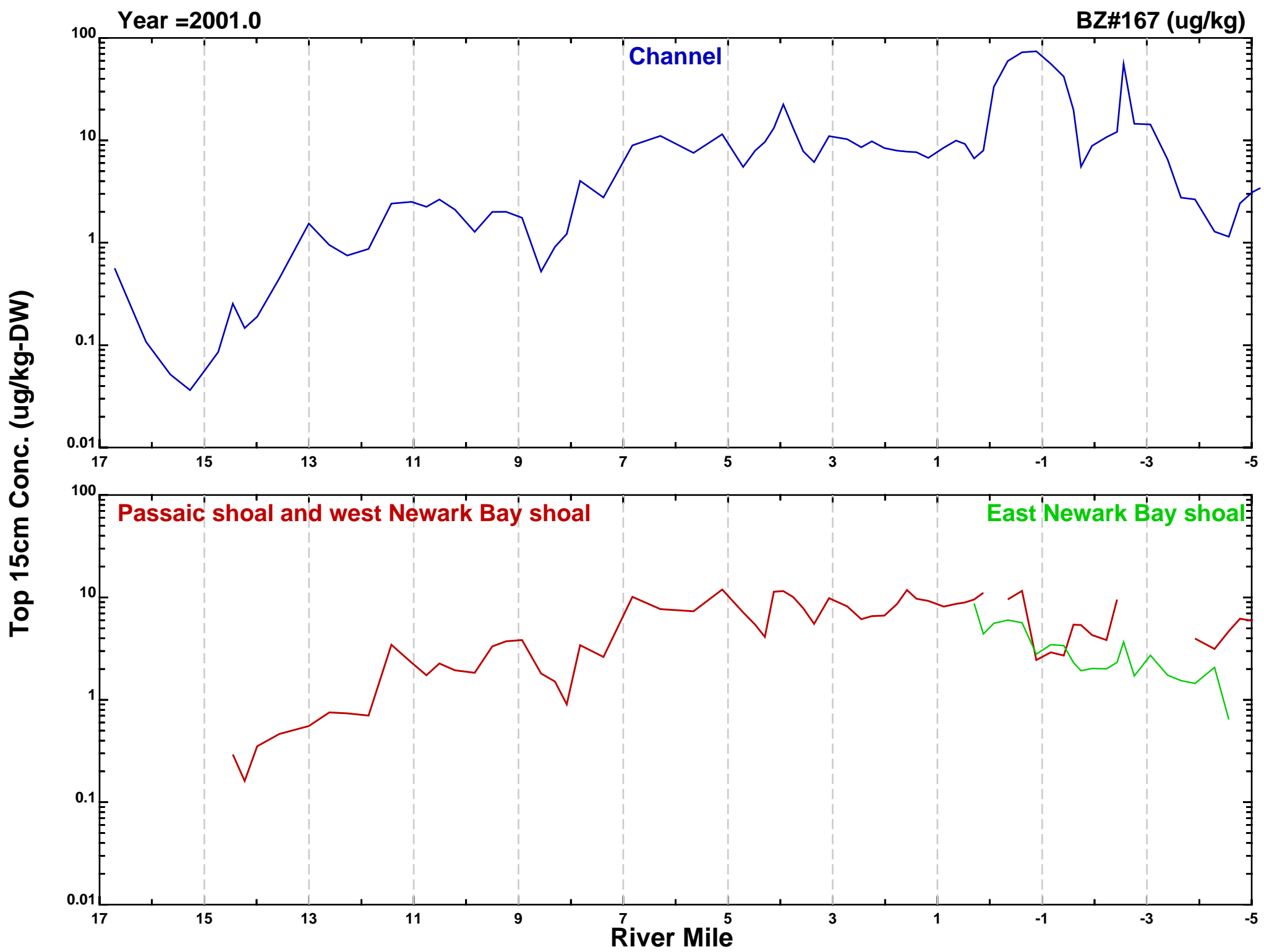
East Newark Bay shoal



River Mile

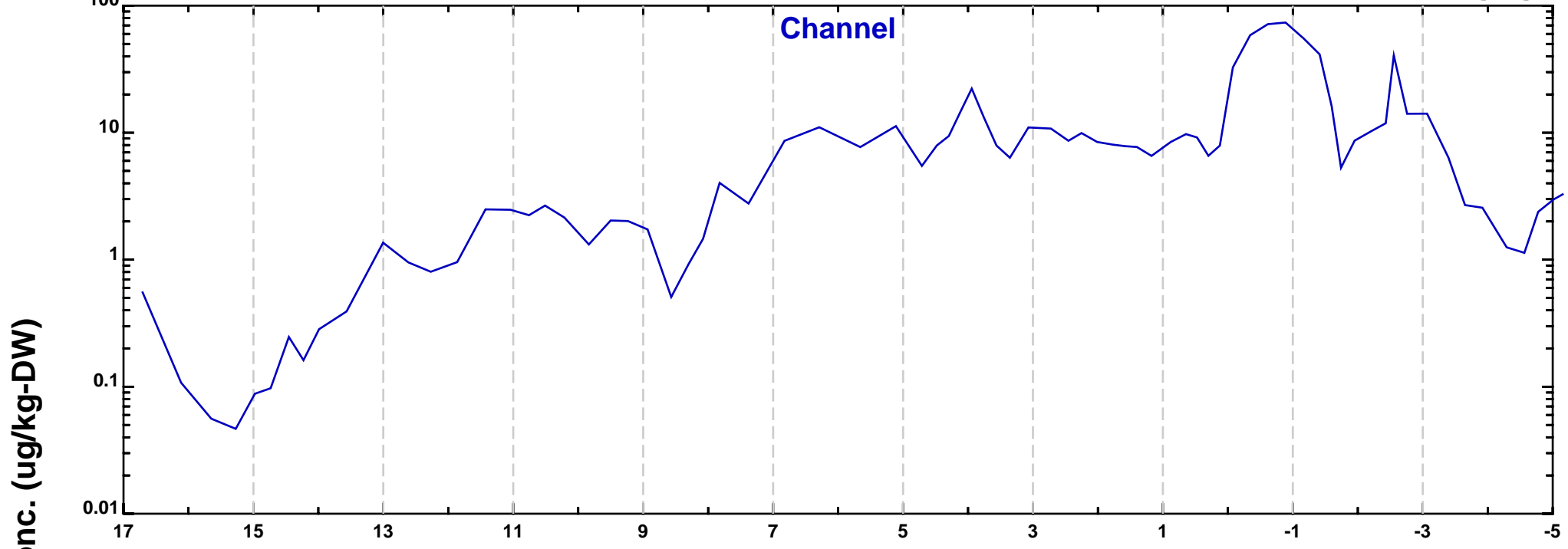






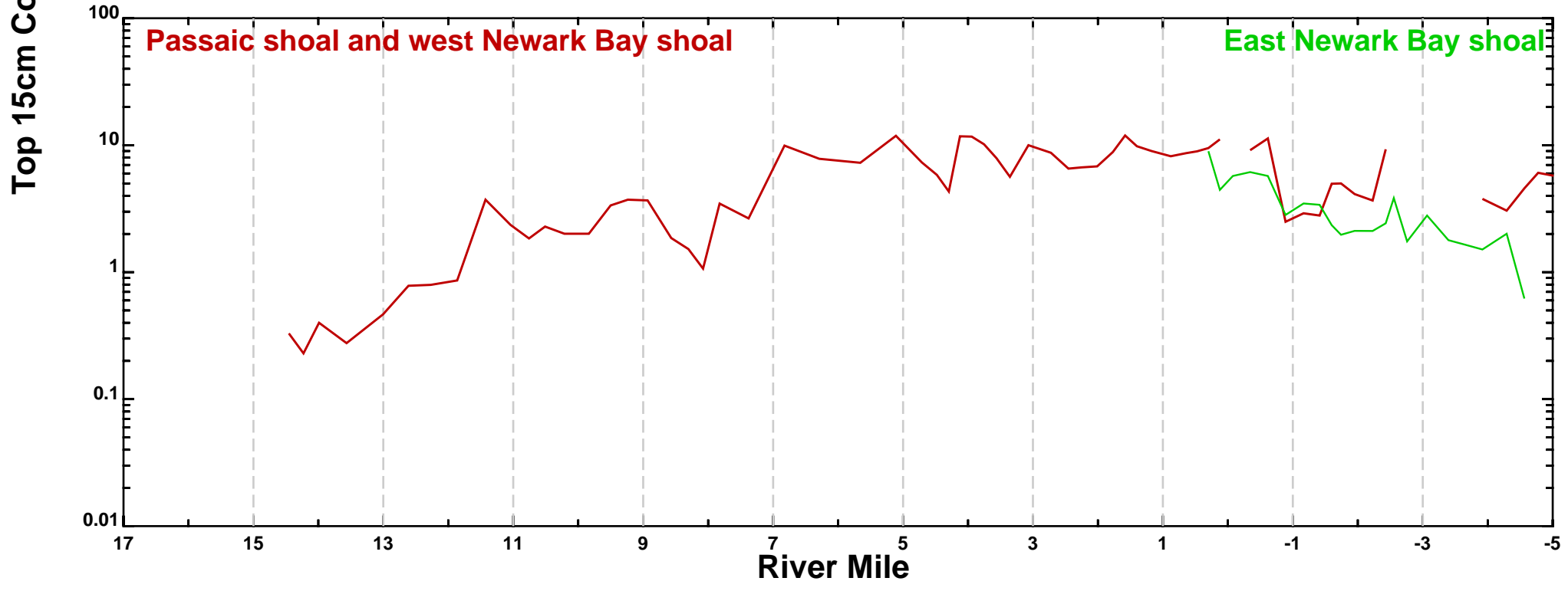
Year =2002.0

BZ#167 (ug/kg)



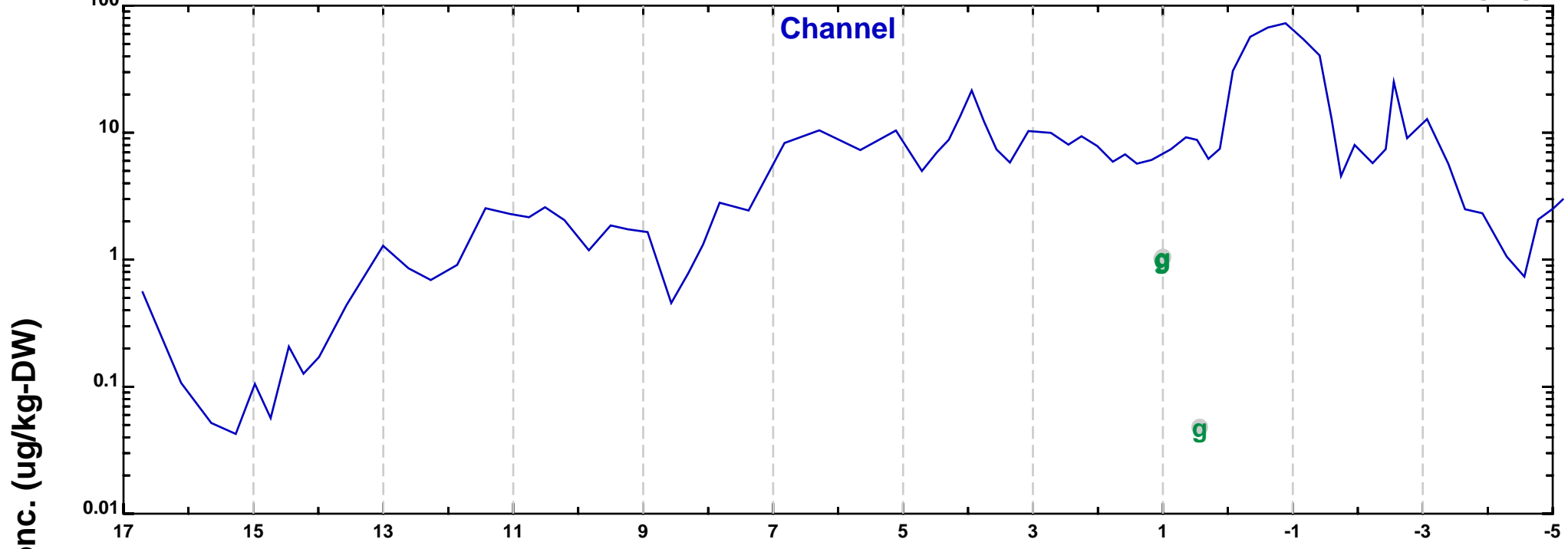
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



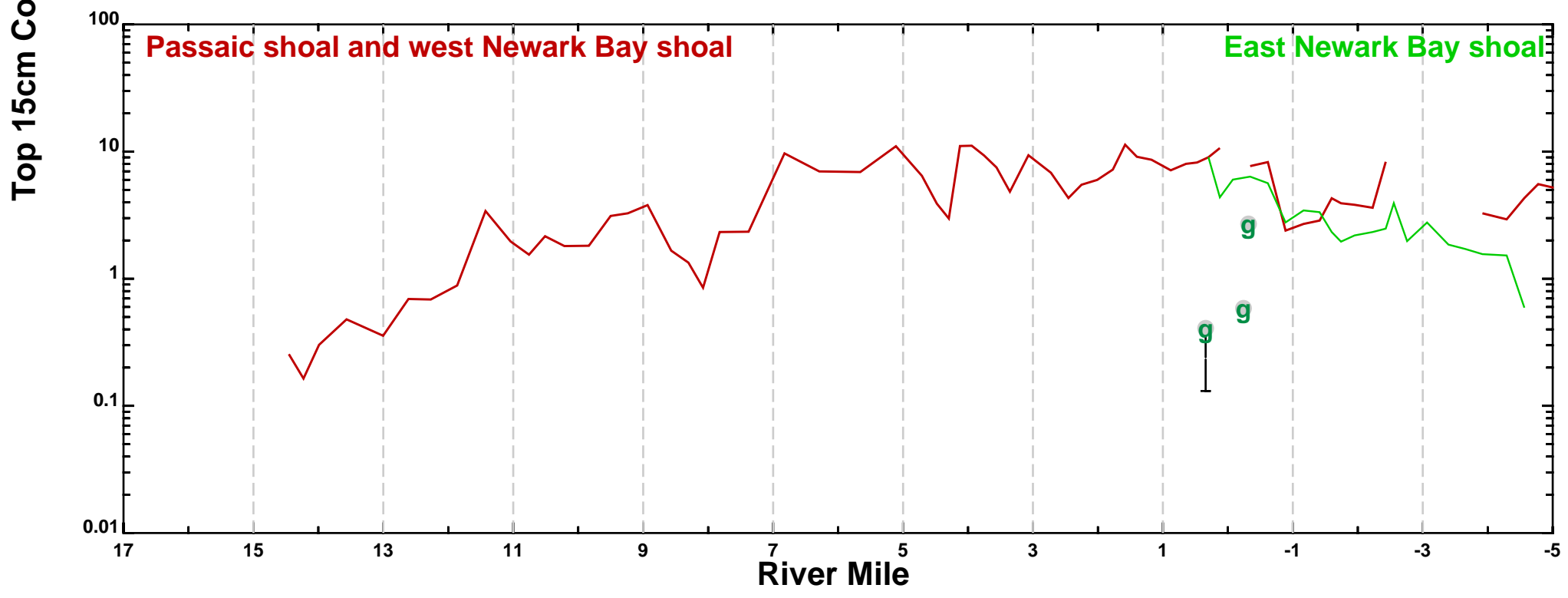
Year =2003.0

BZ#167 (ug/kg)



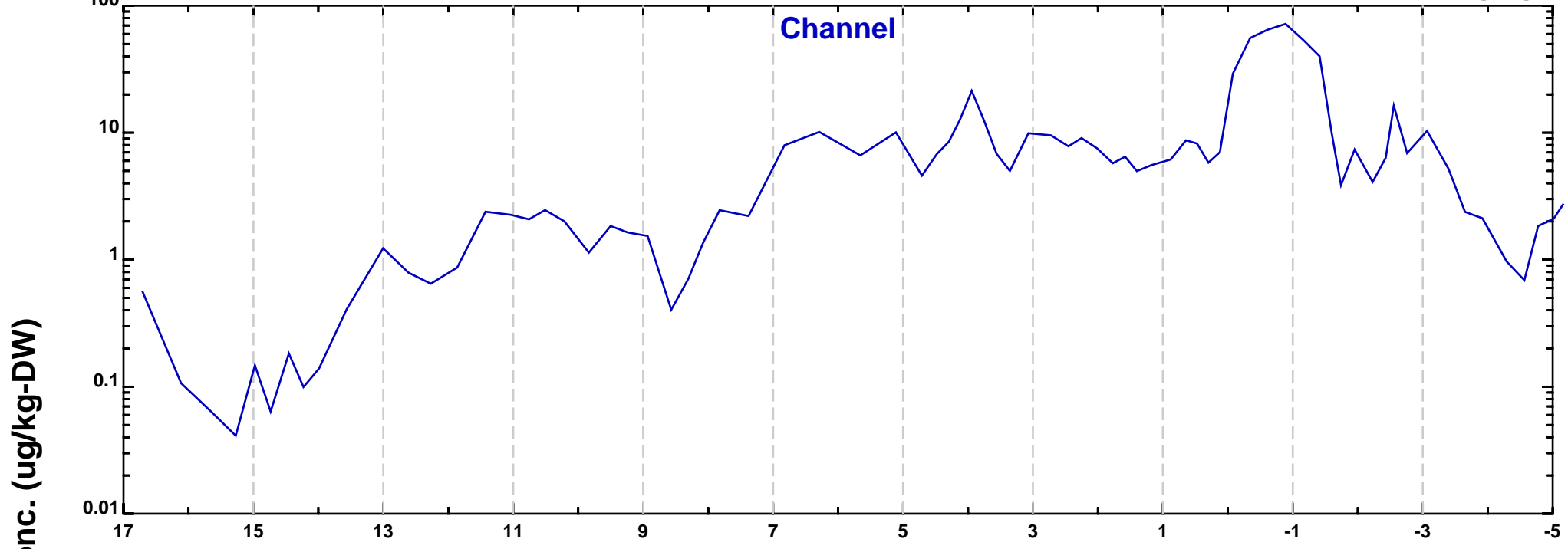
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



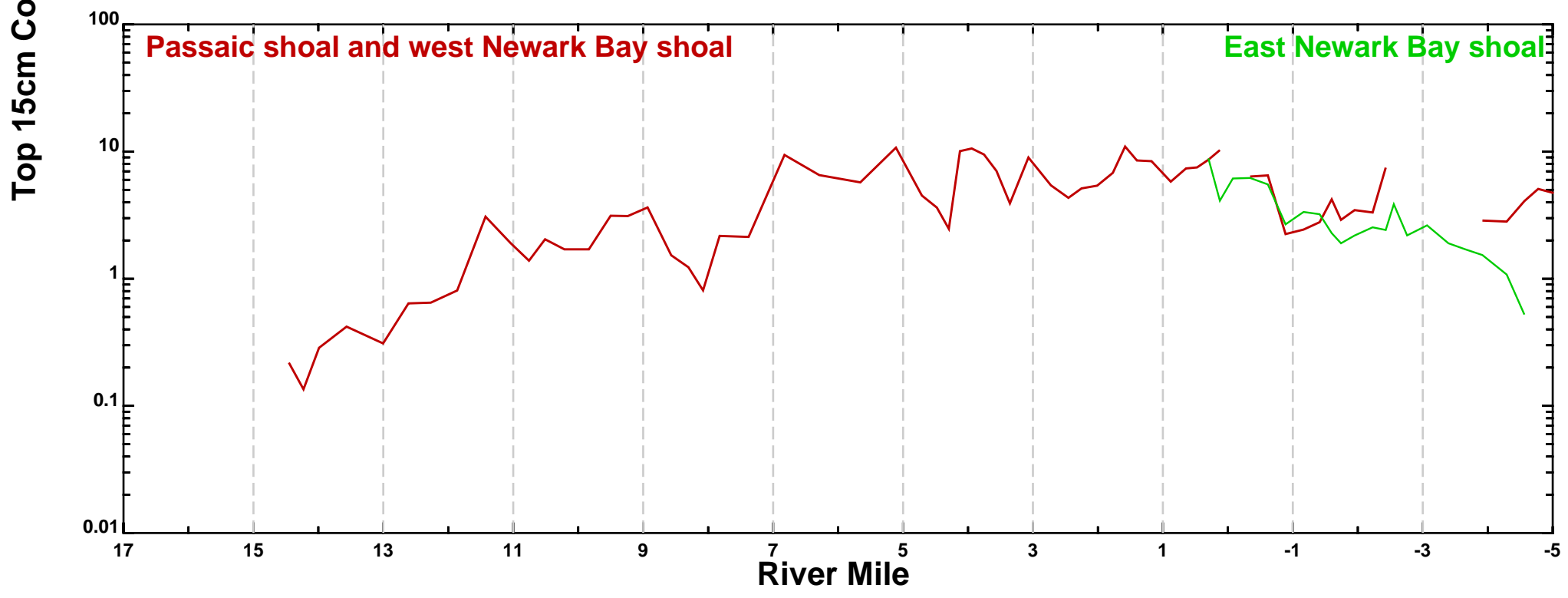
Year =2004.0

BZ#167 (ug/kg)

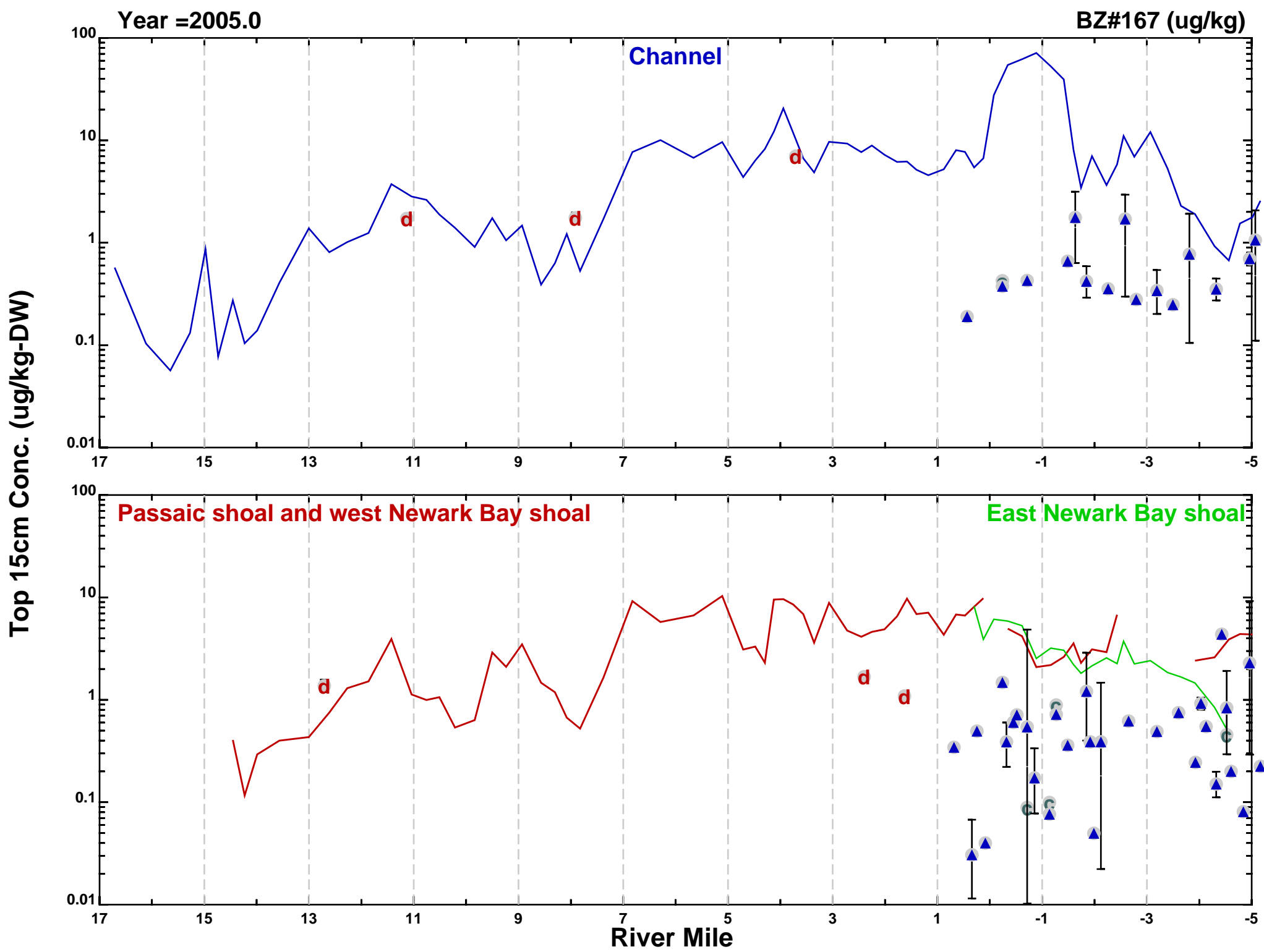


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

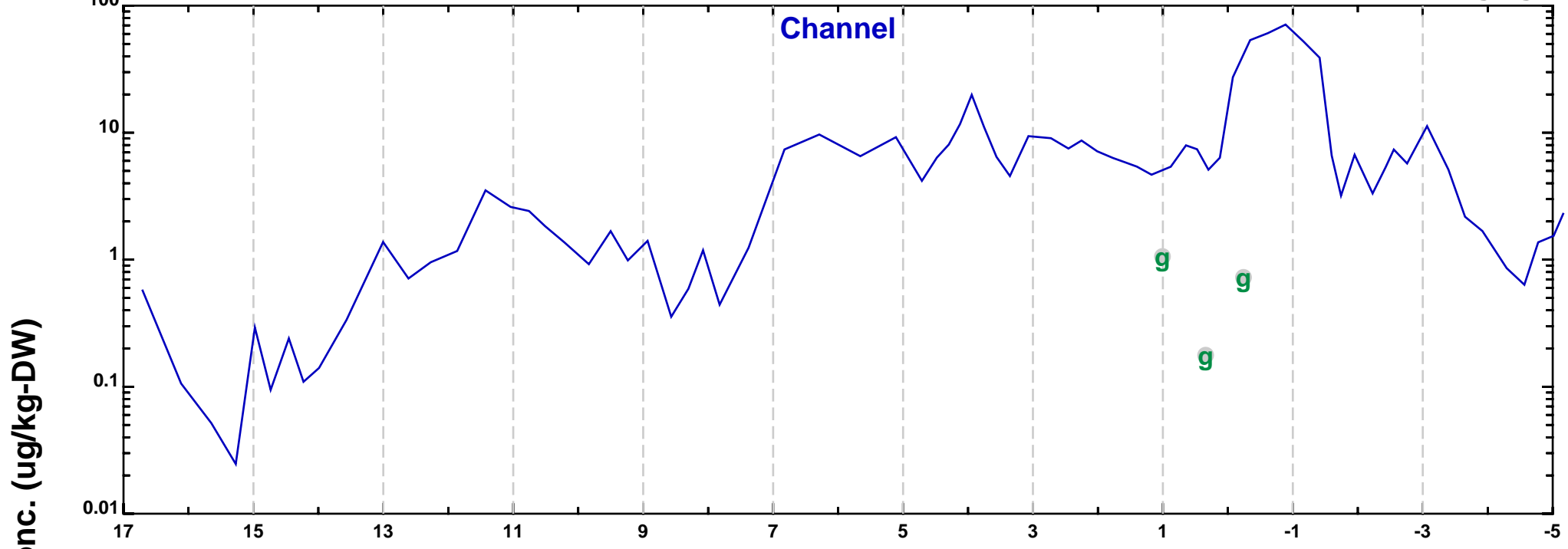


River Mile



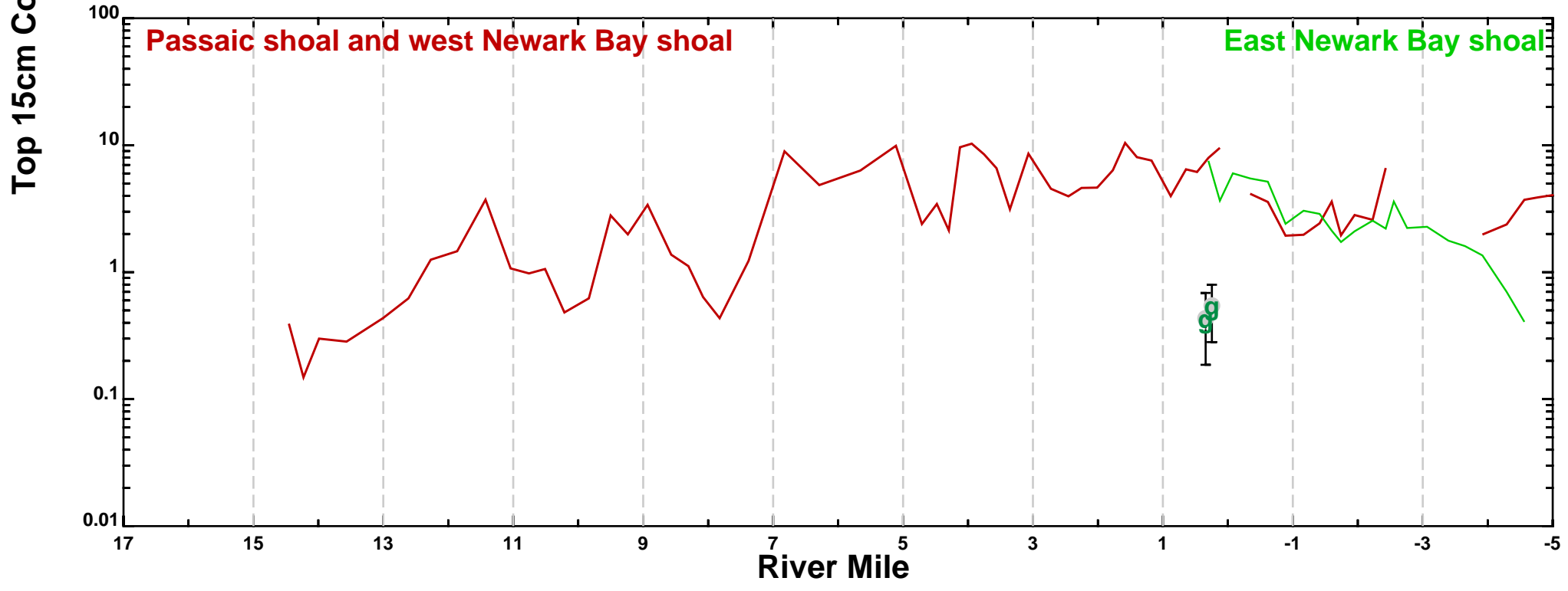
Year =2006.0

BZ#167 (ug/kg)



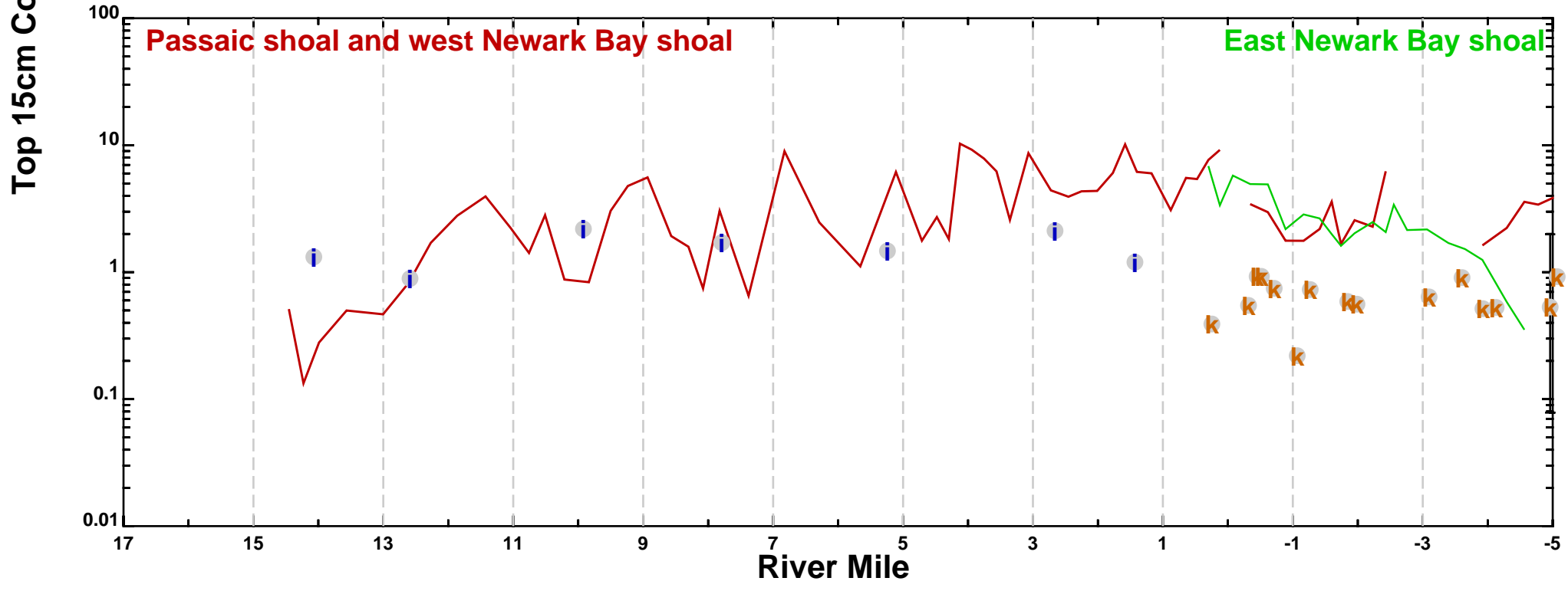
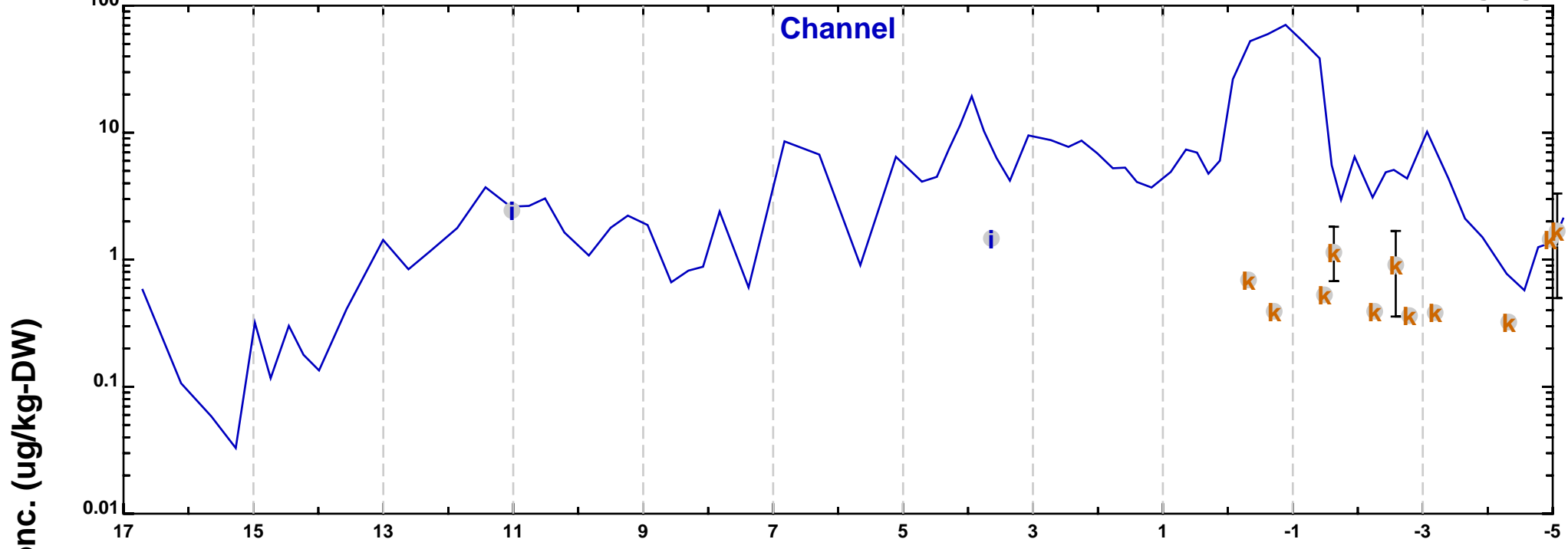
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2007.0

BZ#167 (ug/kg)

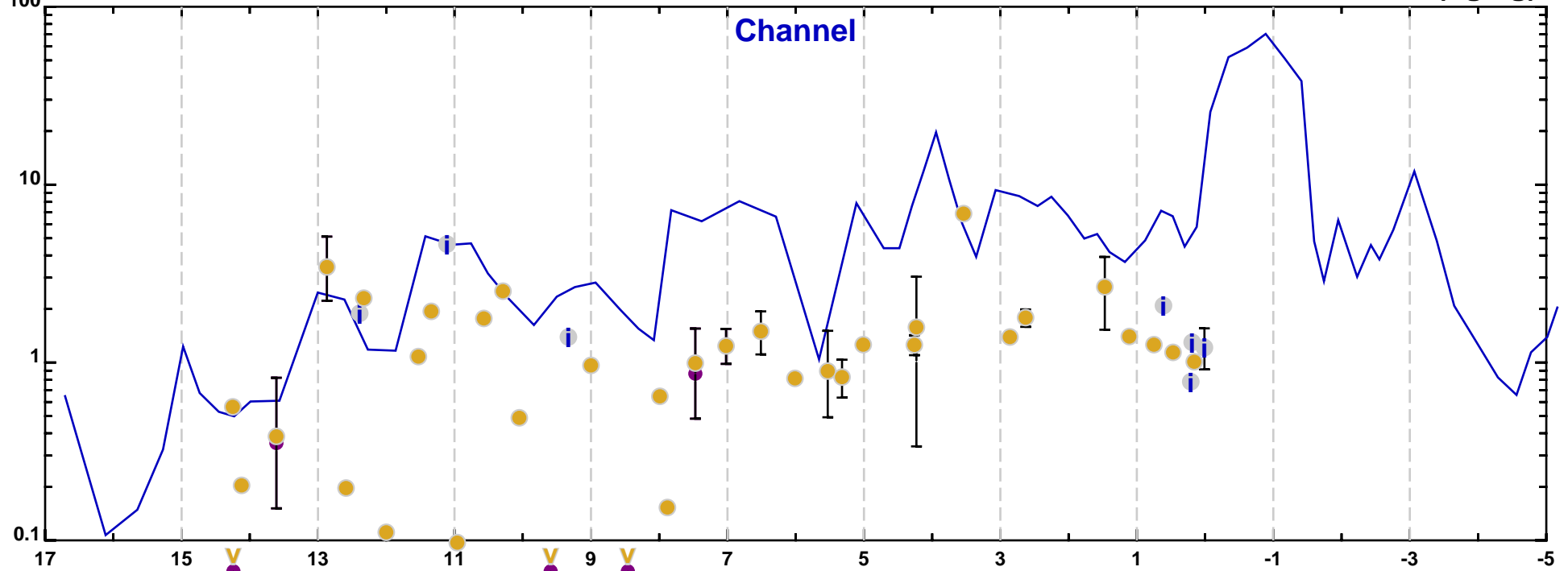


Year = 2008.0

BZ#167 (ug/kg)

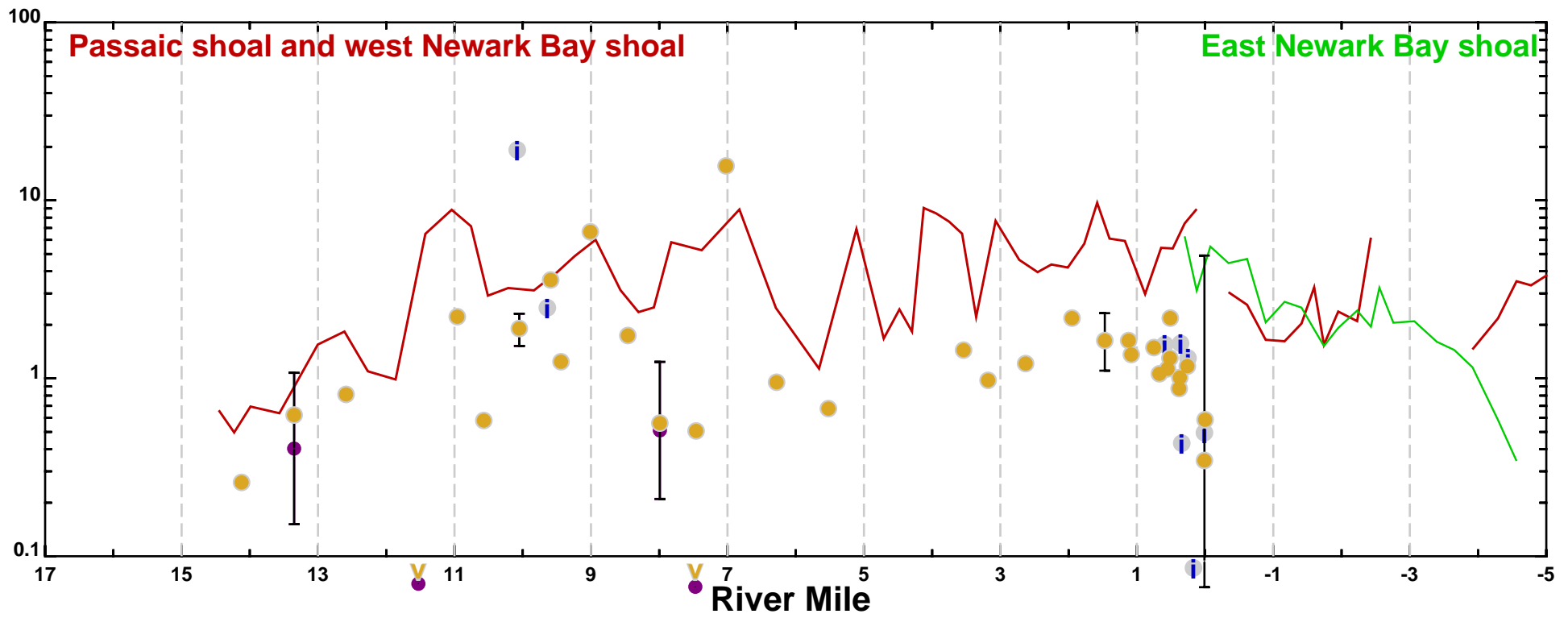
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

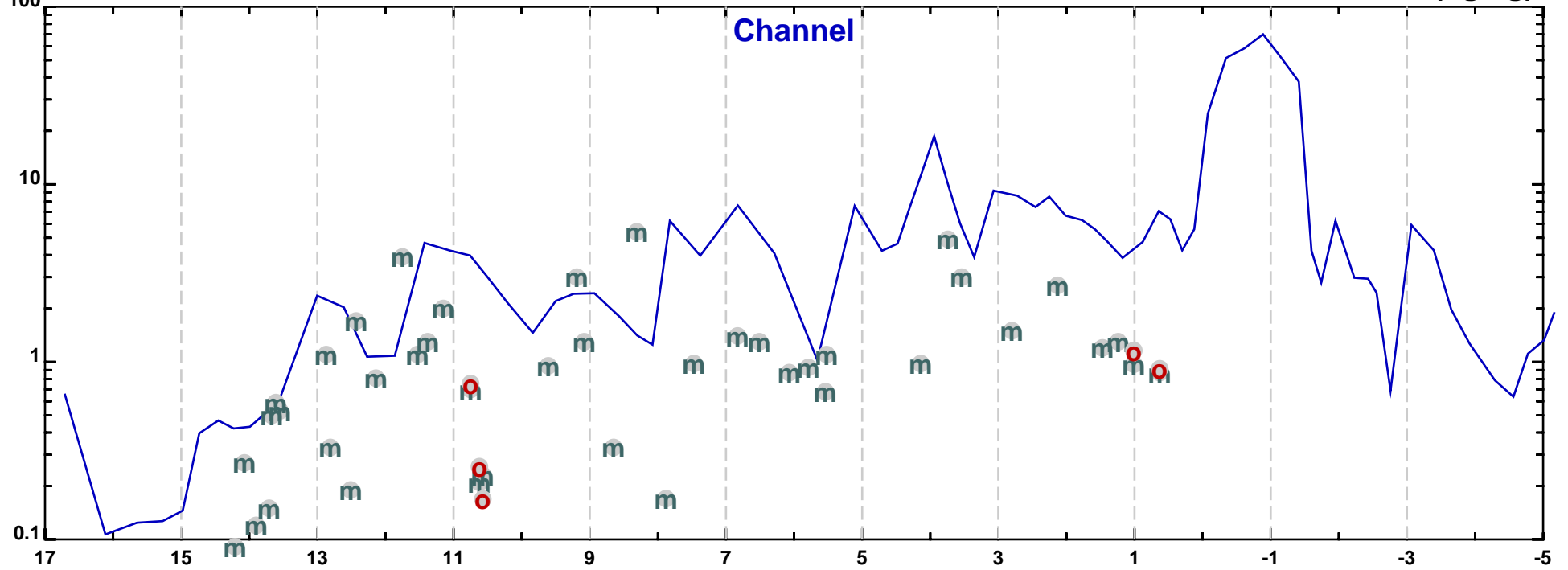




Year = 2009.0

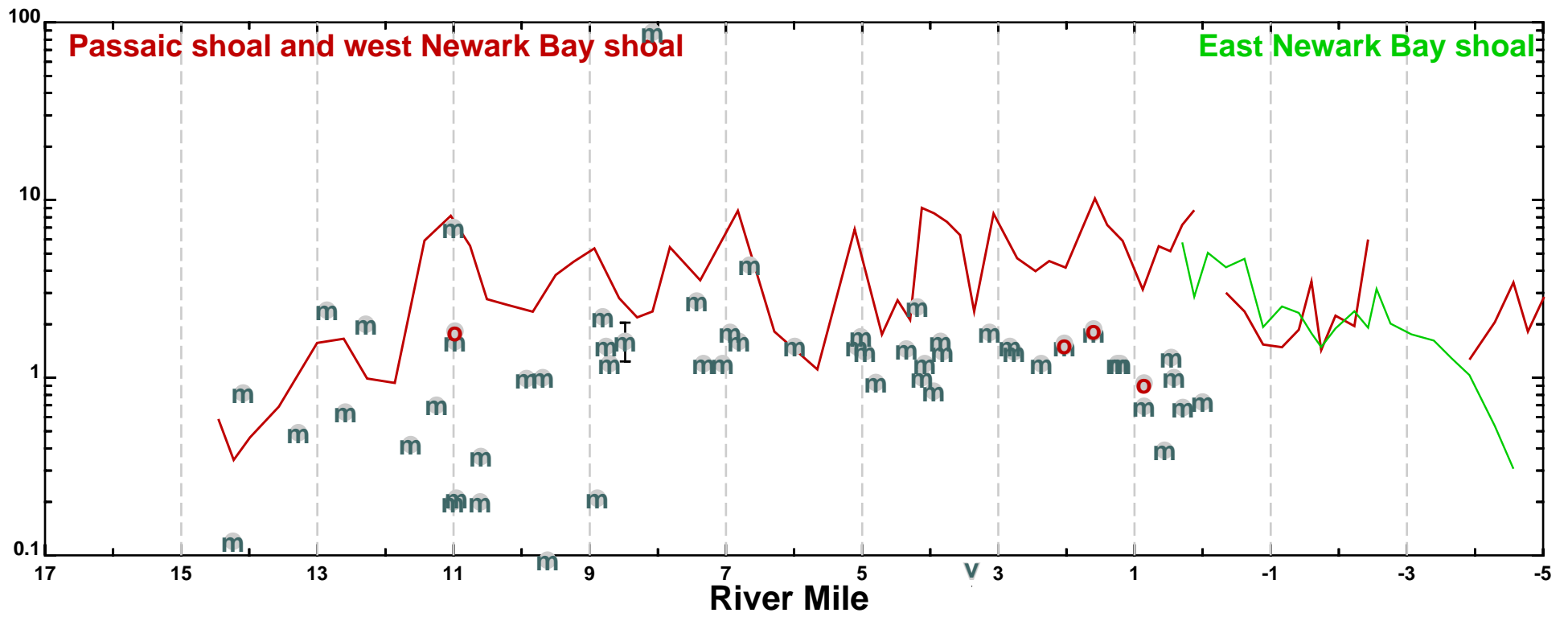
BZ#167 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



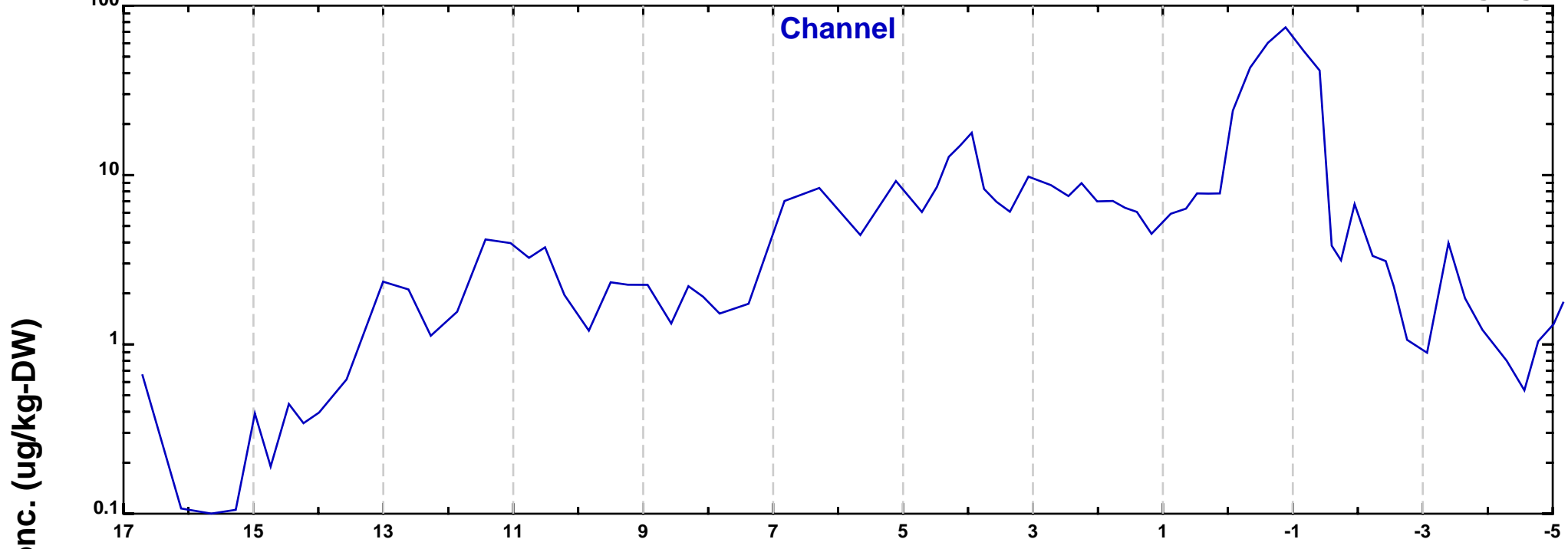
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



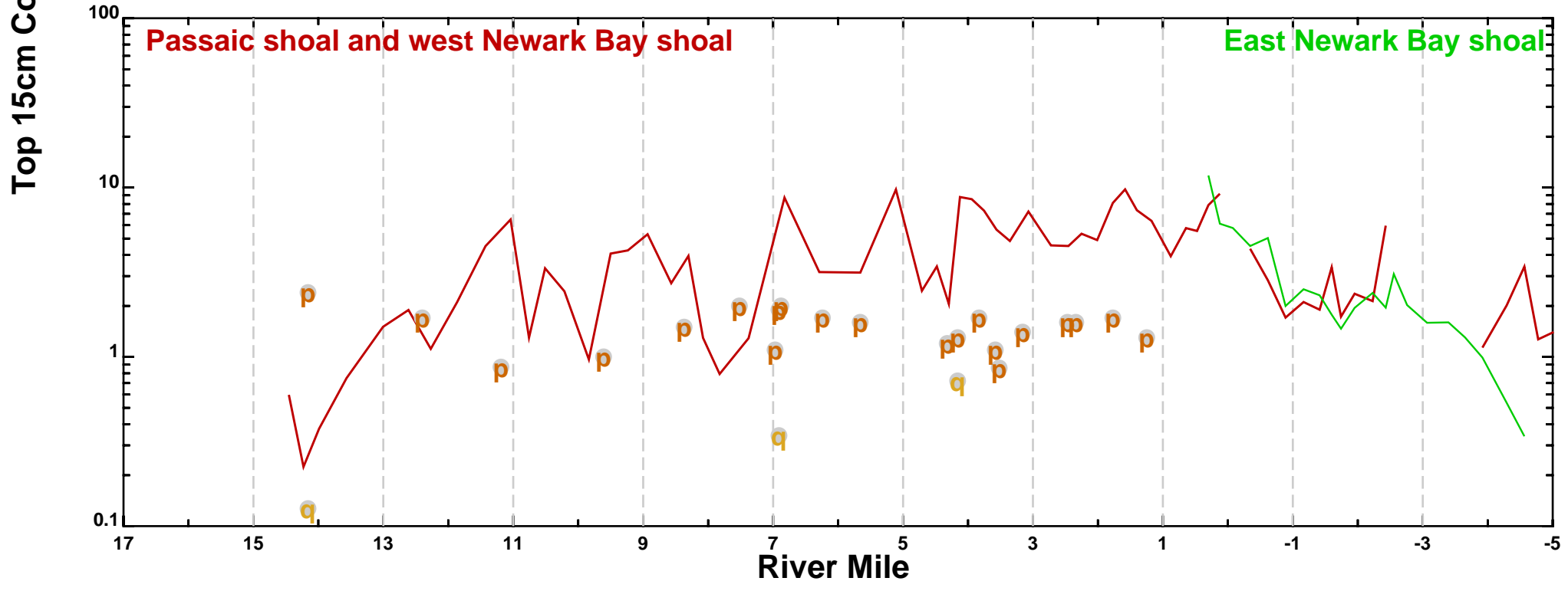
Year = 2010.0

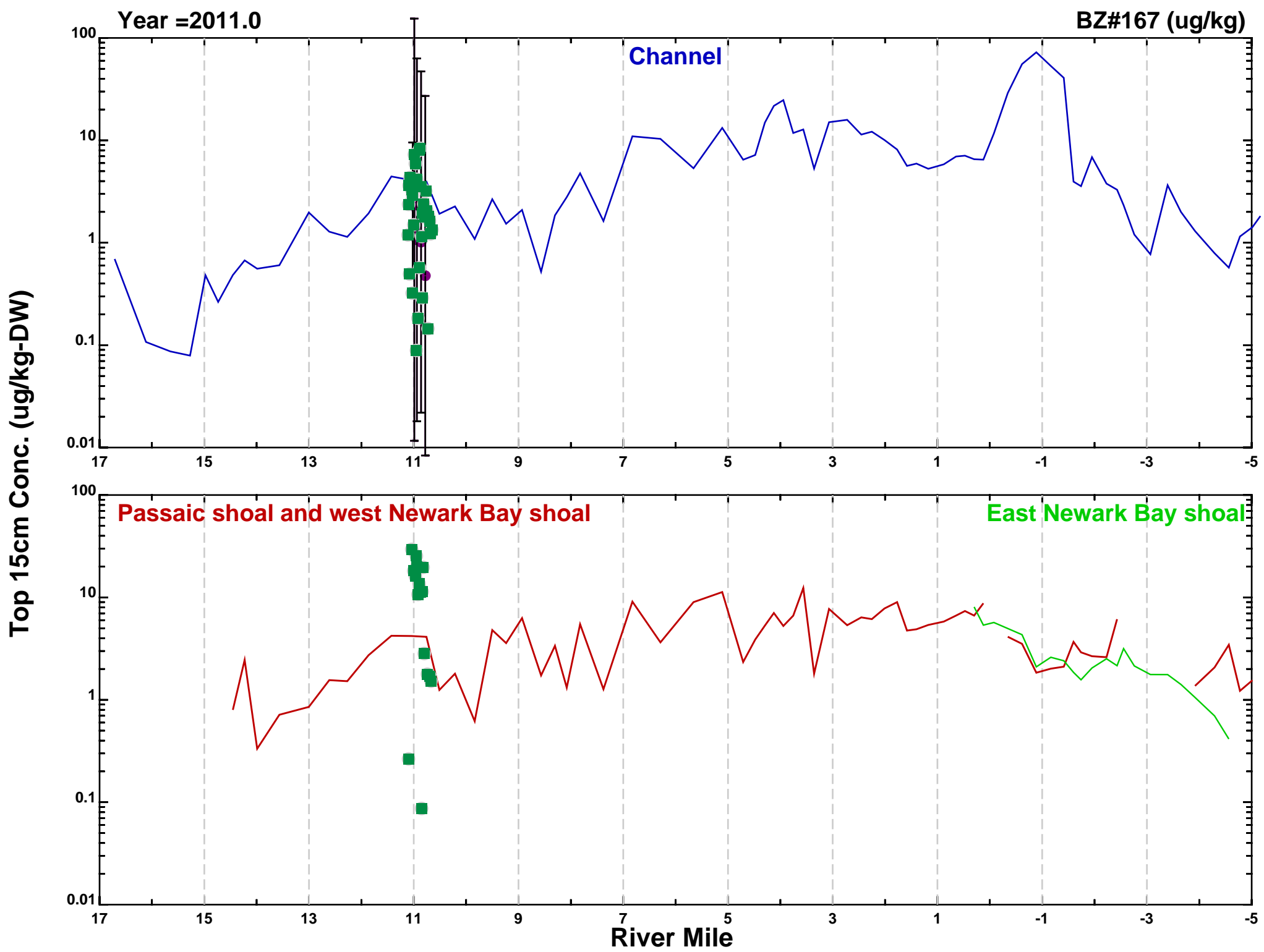
BZ#167 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



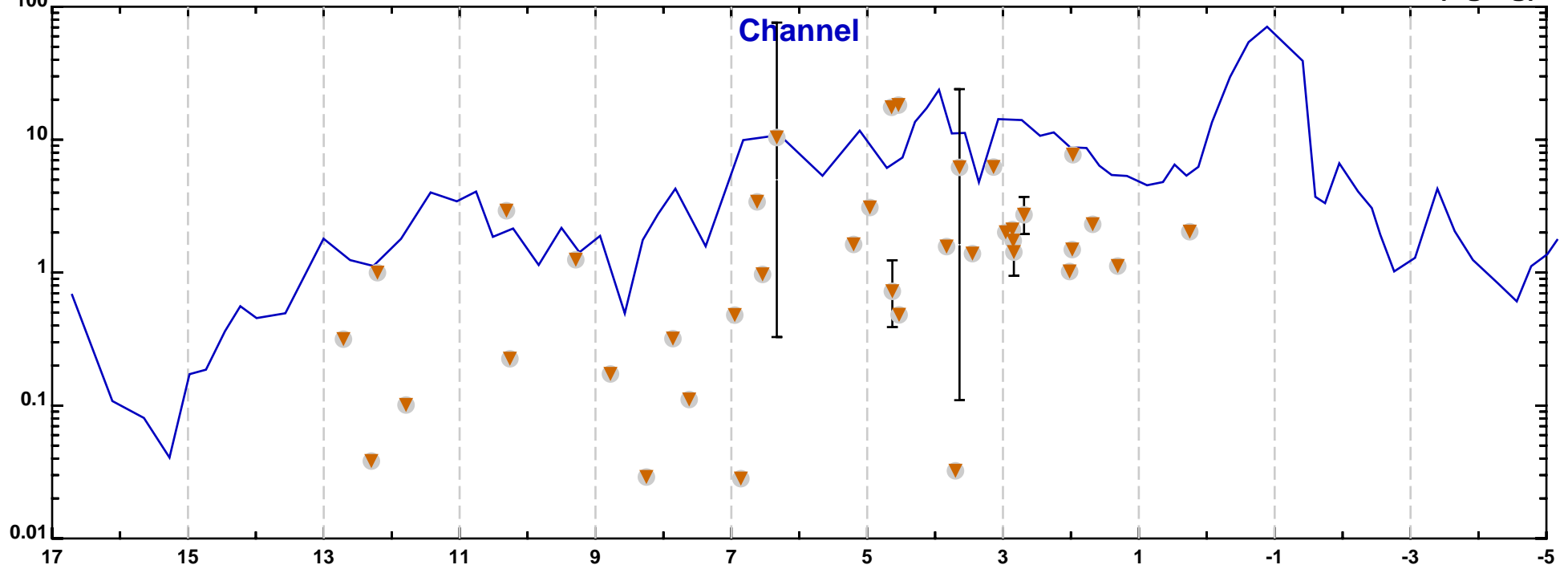


Year = 2012.0

BZ#167 (ug/kg)

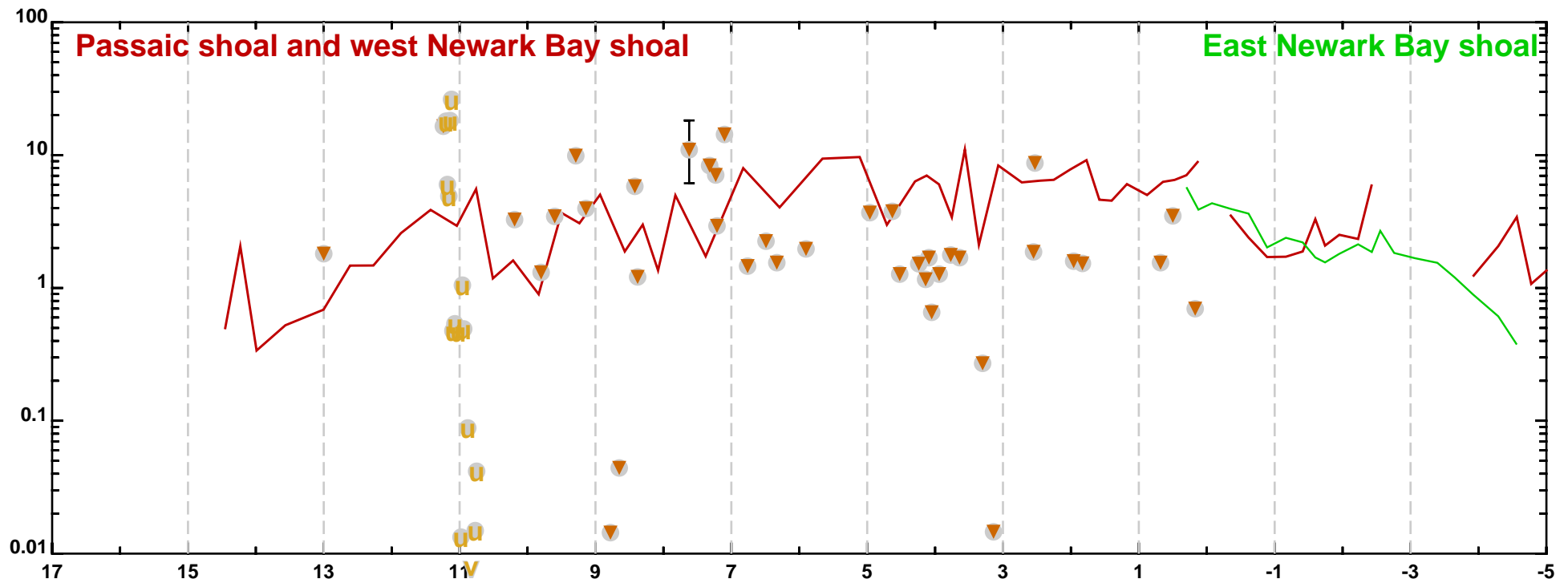
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2013.0

BZ#167 (ug/kg)

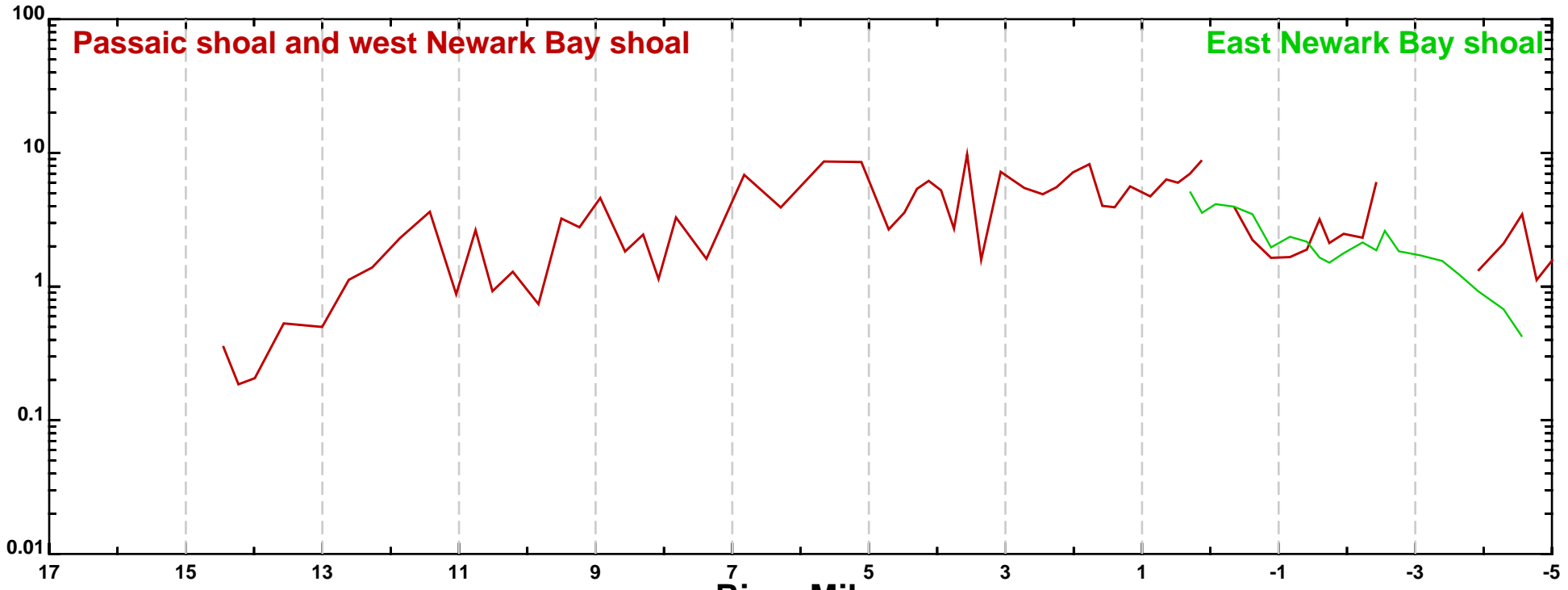
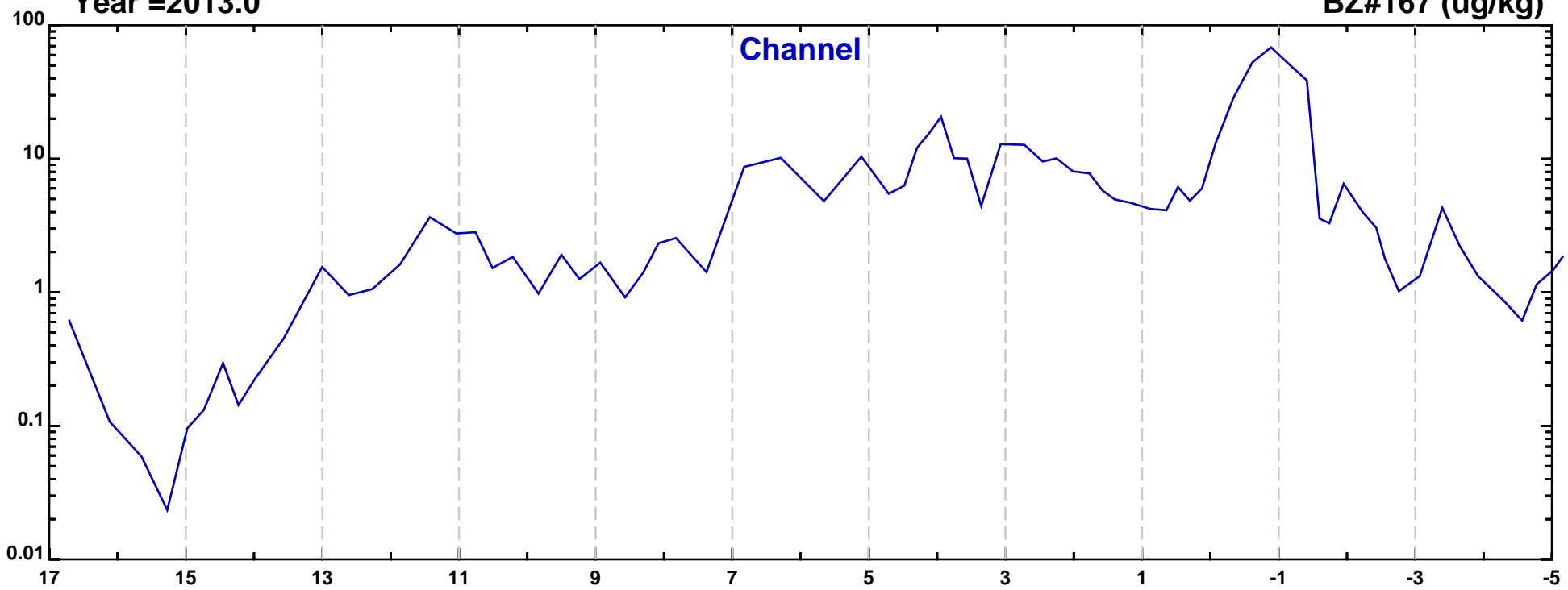
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

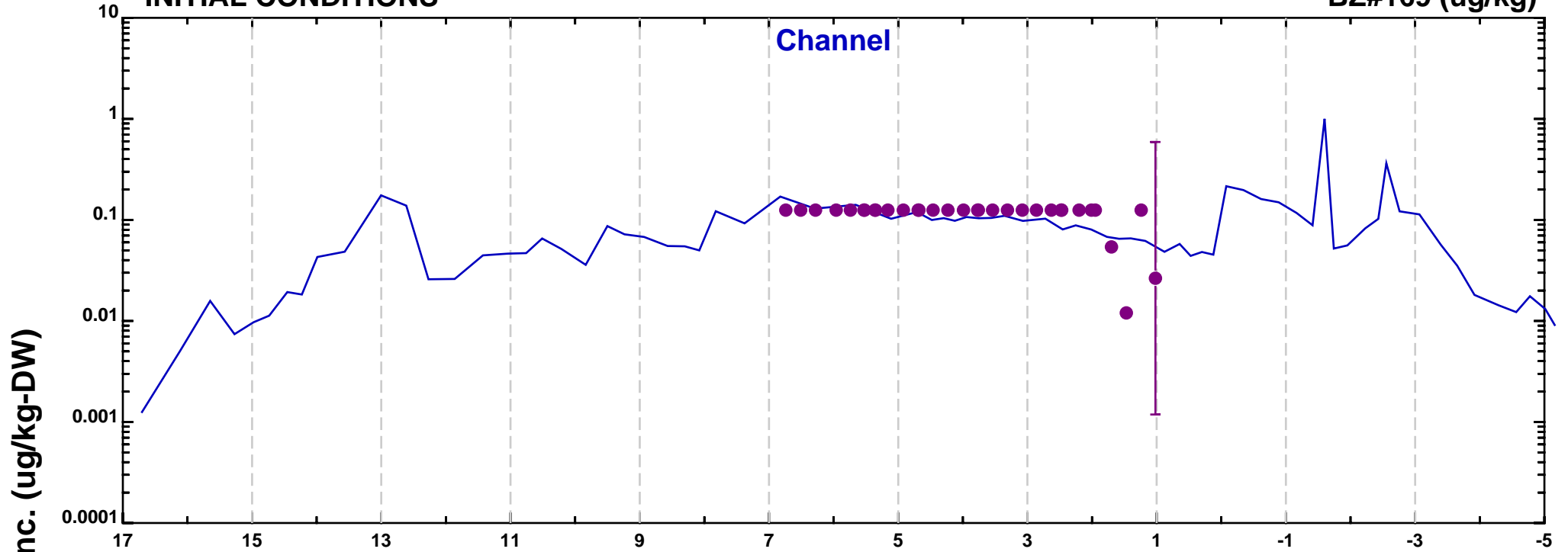
East Newark Bay shoal

River Mile



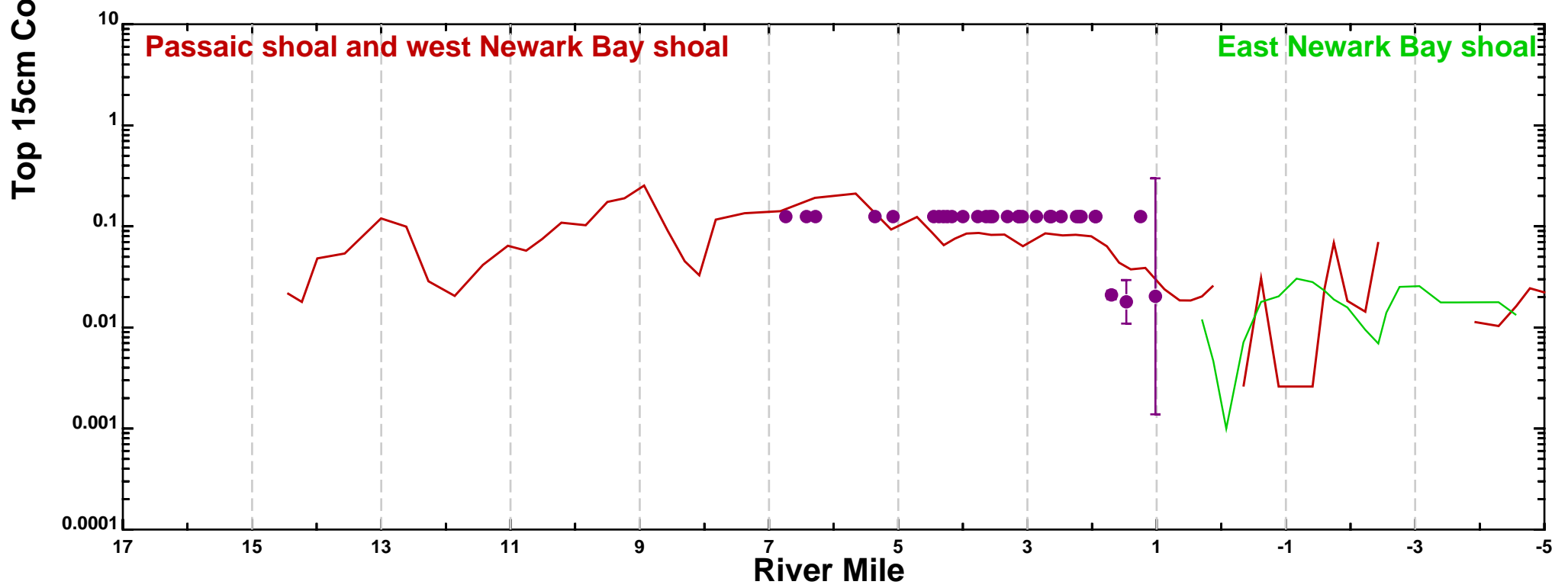
INITIAL CONDITIONS

BZ#169 (ug/kg)



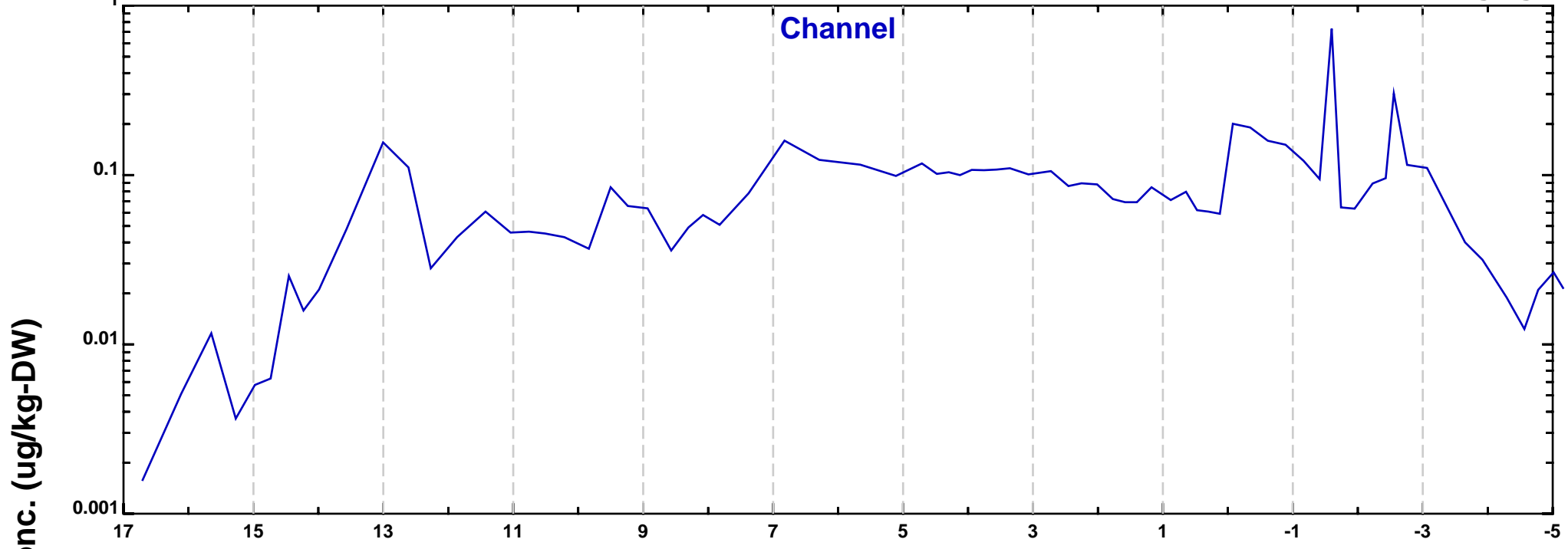
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



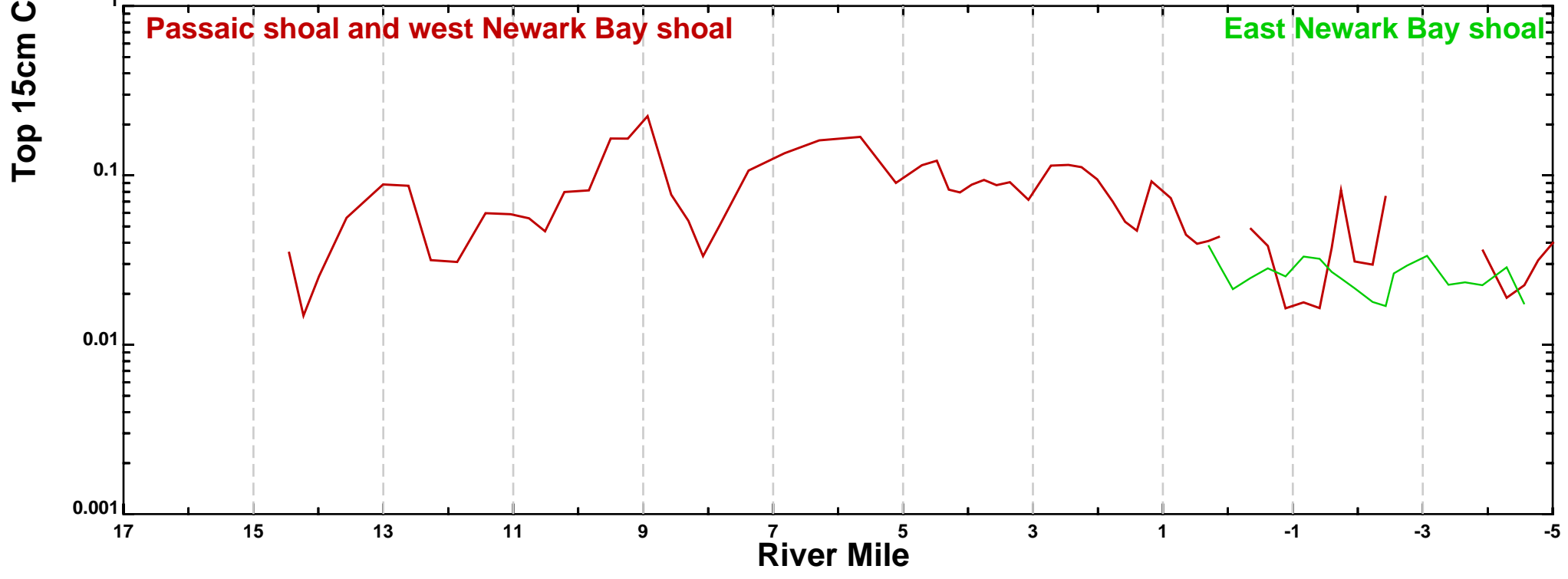
Year = 1996.0

BZ#169 (ug/kg)



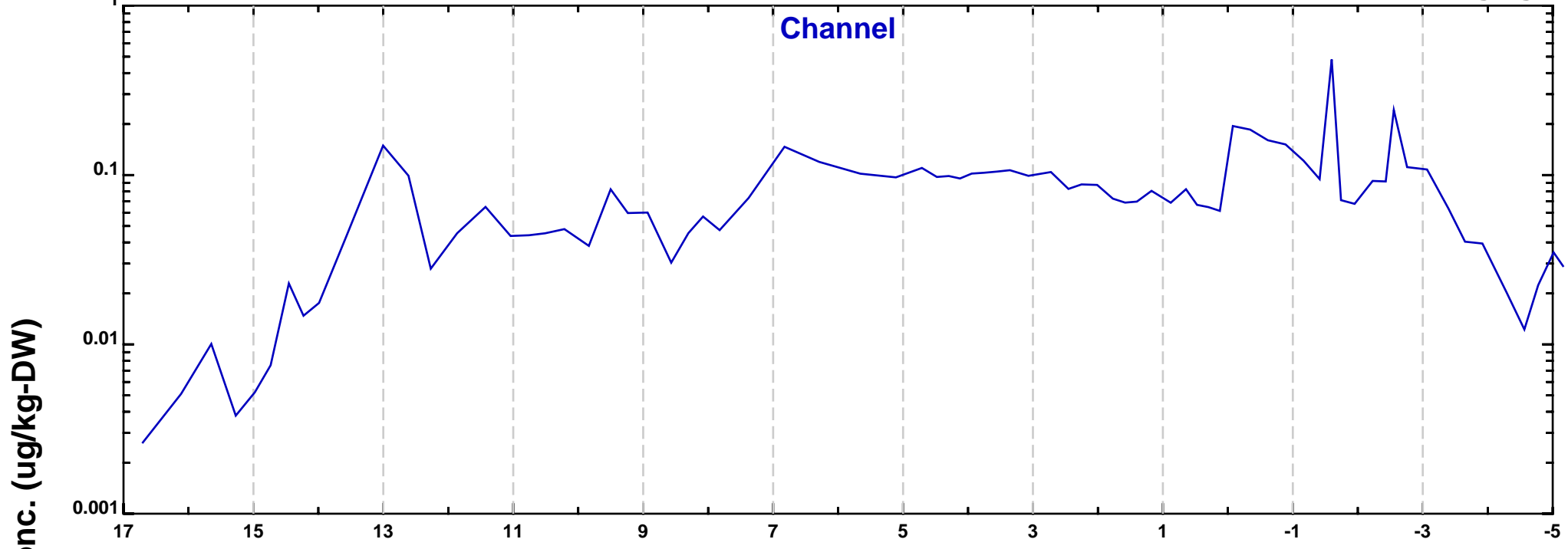
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



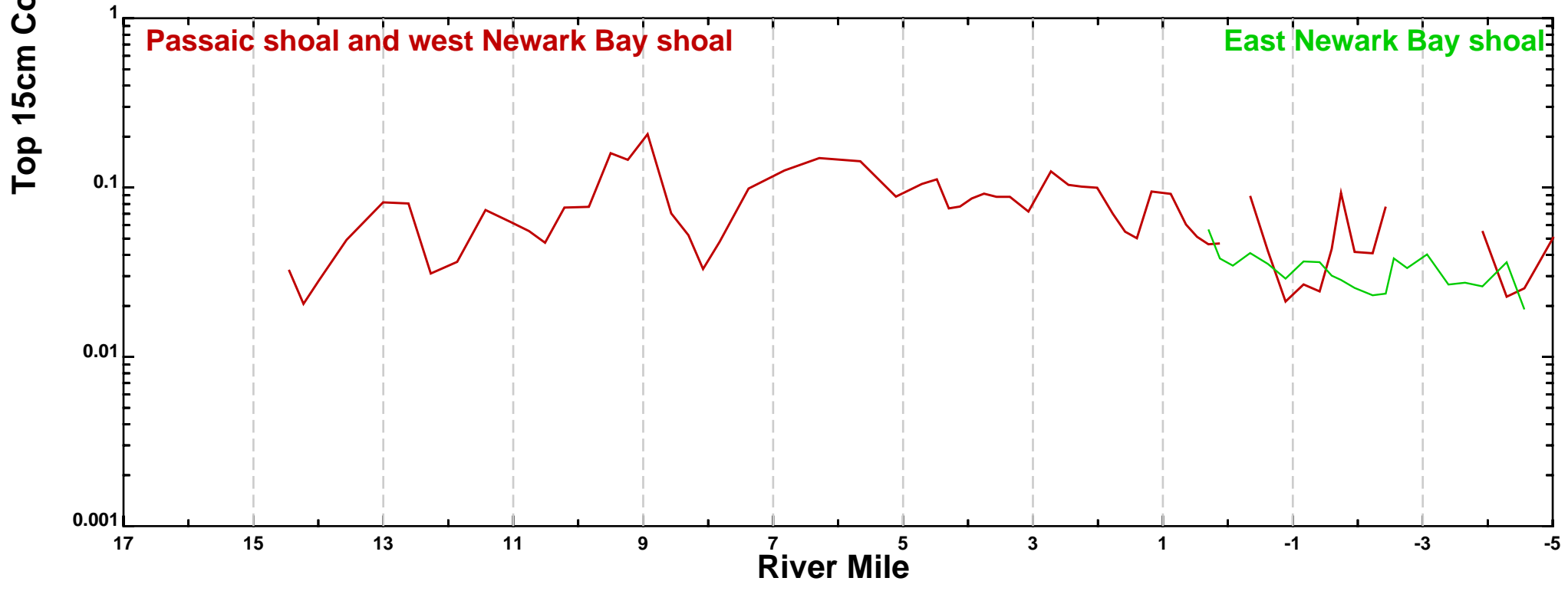
Year = 1997.0

BZ#169 (ug/kg)



Passaic shoal and west Newark Bay shoal

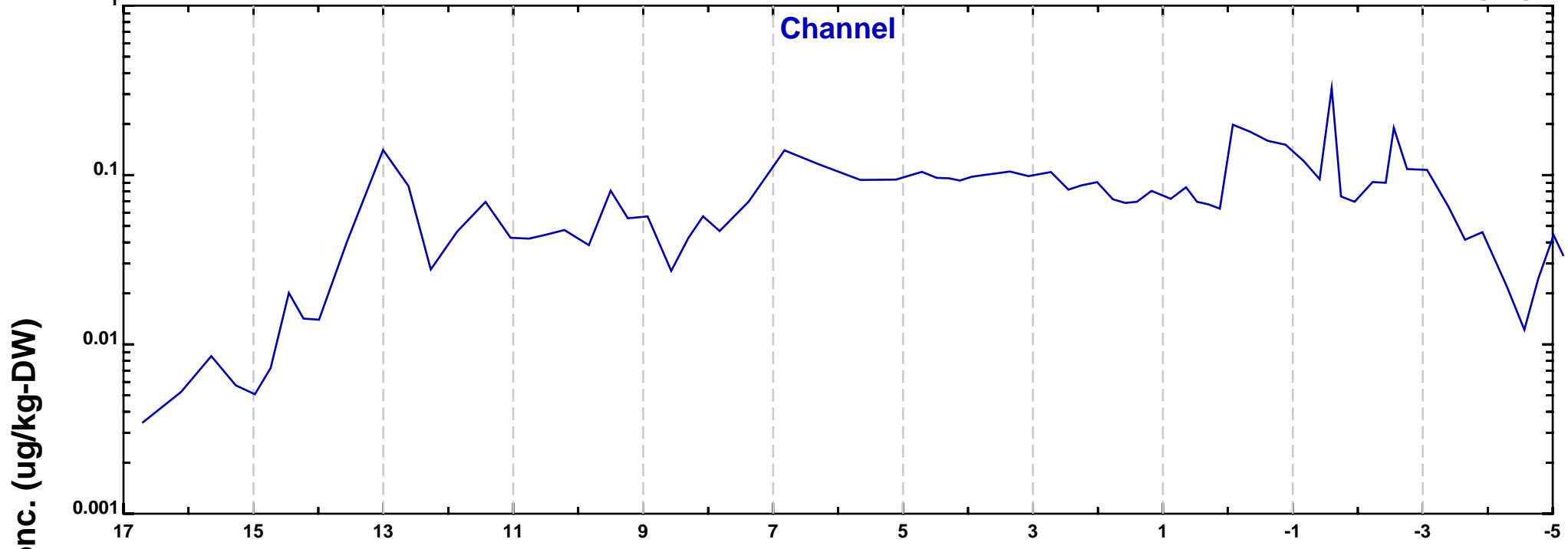
East Newark Bay shoal





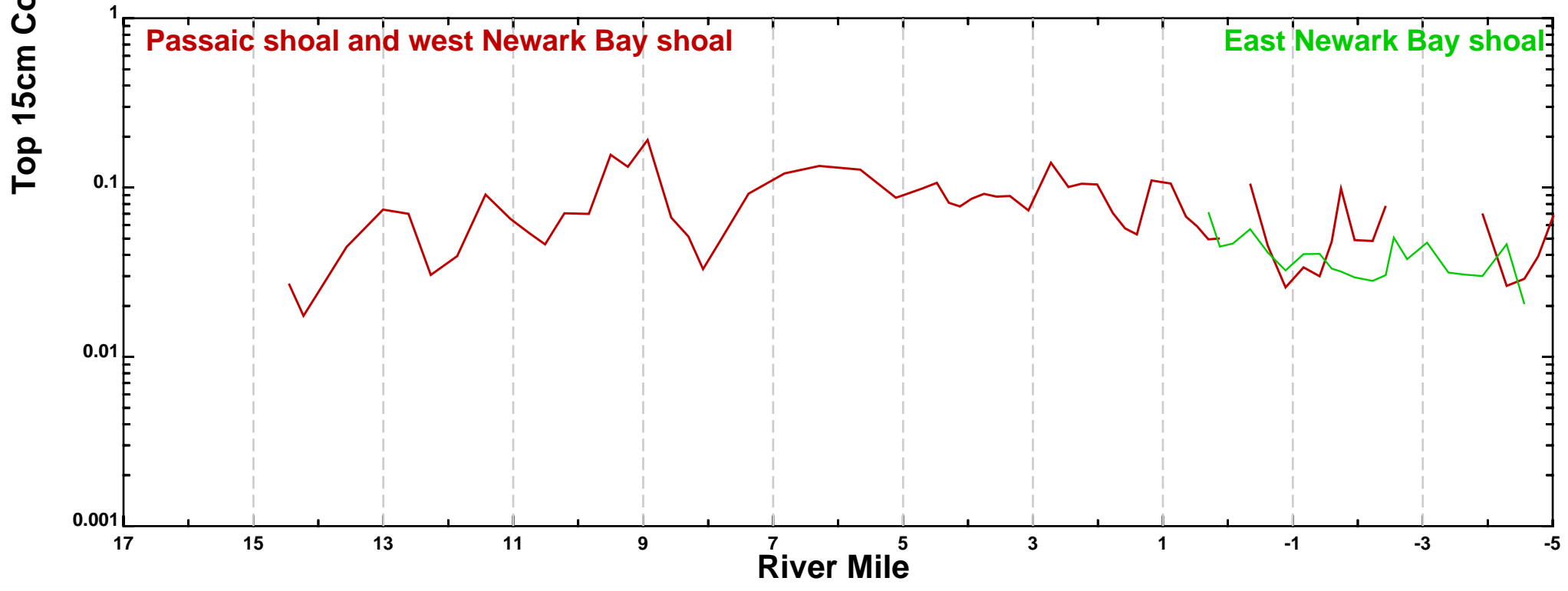
Year = 1998.0

BZ#169 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

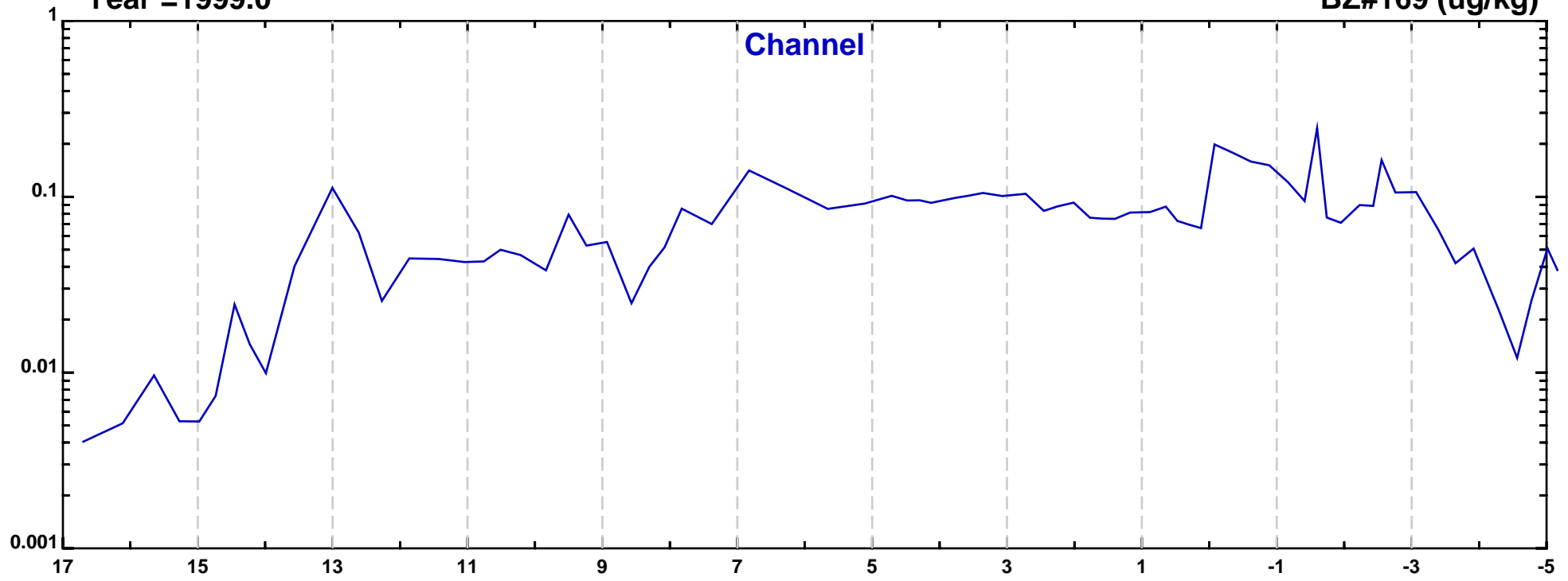


Year = 1999.0

BZ#169 (ug/kg)

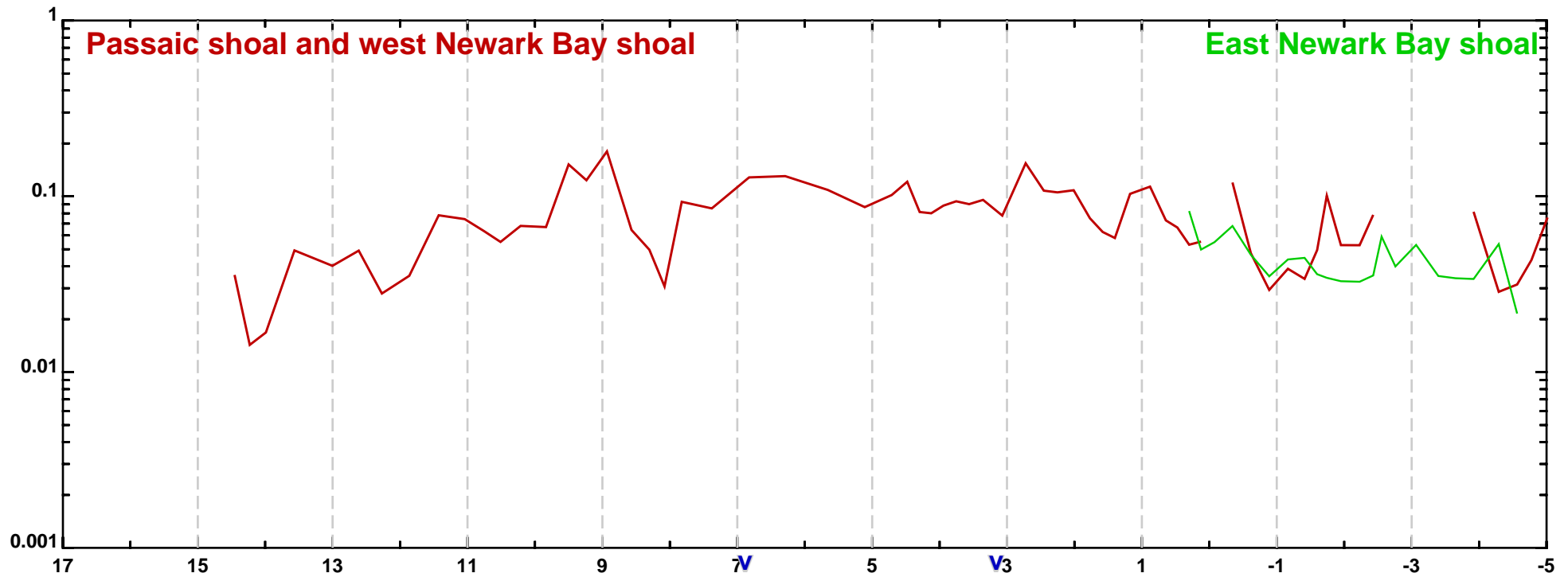
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



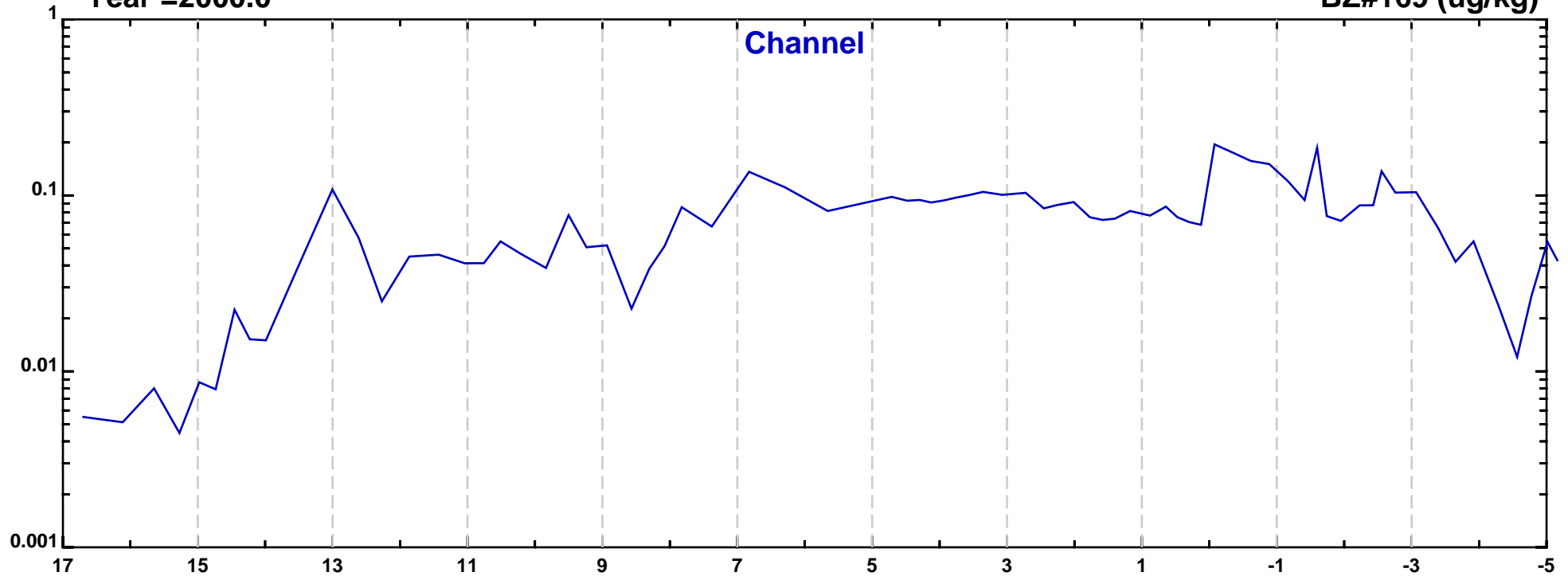
River Mile

Year =2000.0

BZ#169 (ug/kg)

Top 15cm Conc. (ug/kg-DW)

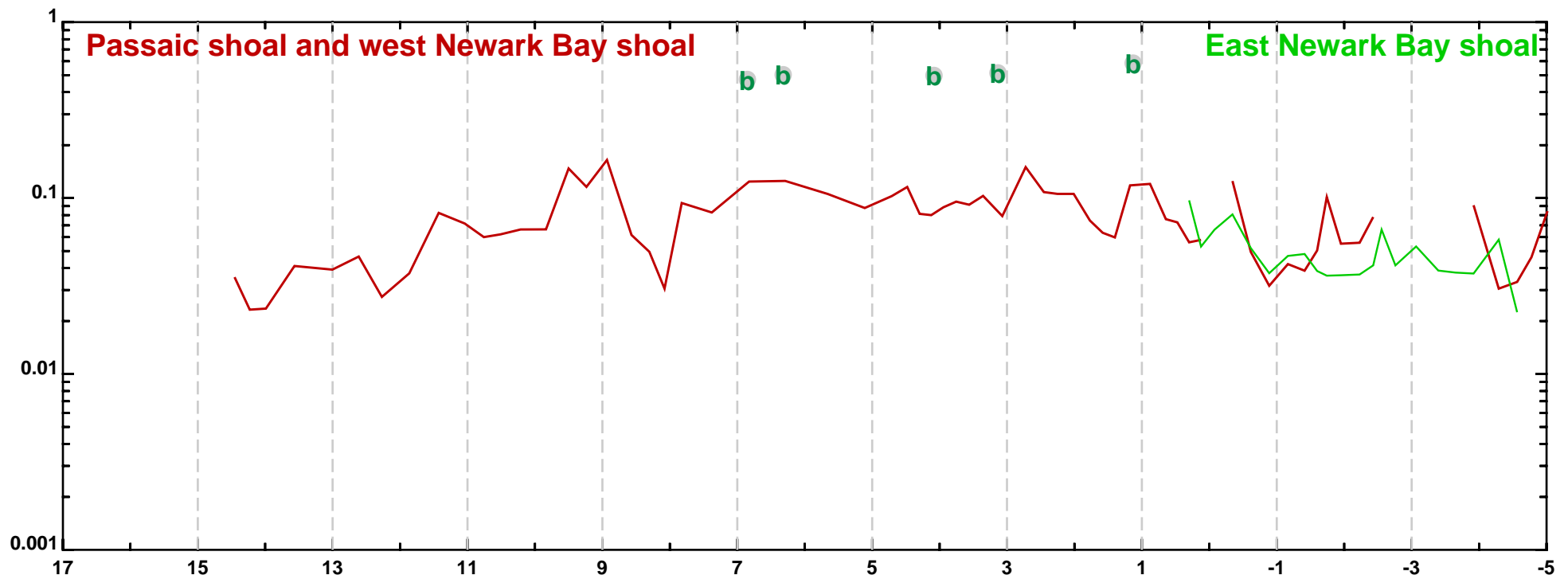
Channel



Passaic shoal and west Newark Bay shoal

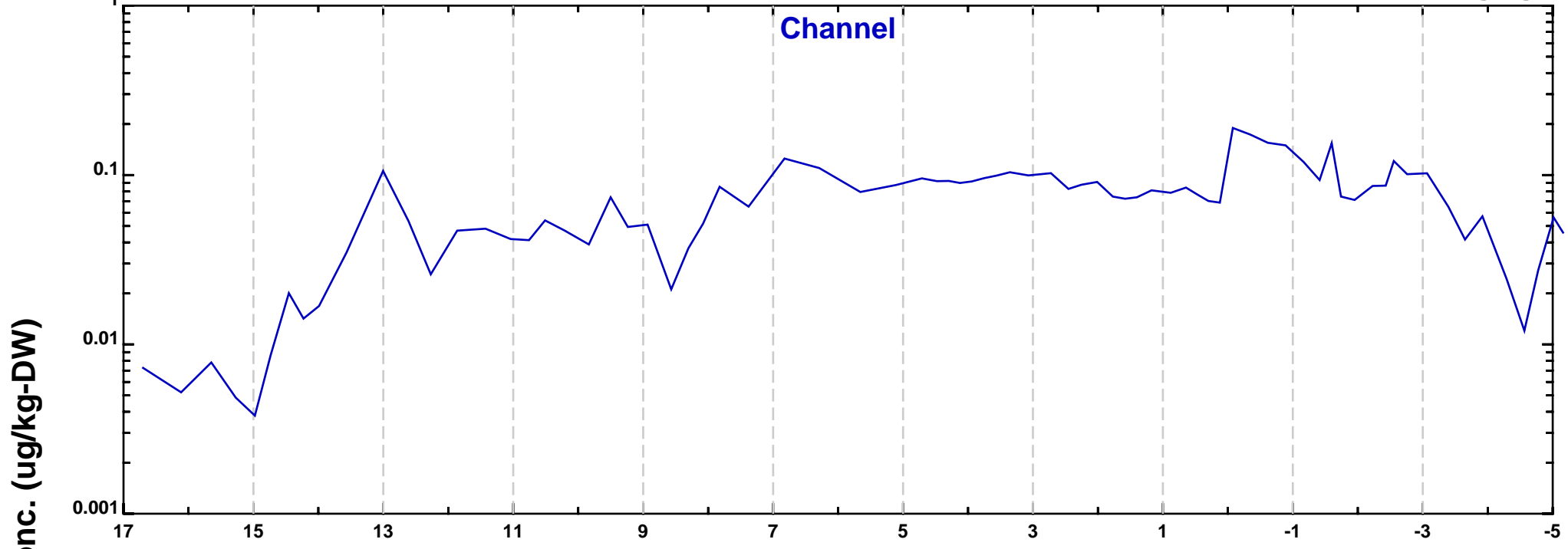
East Newark Bay shoal

River Mile



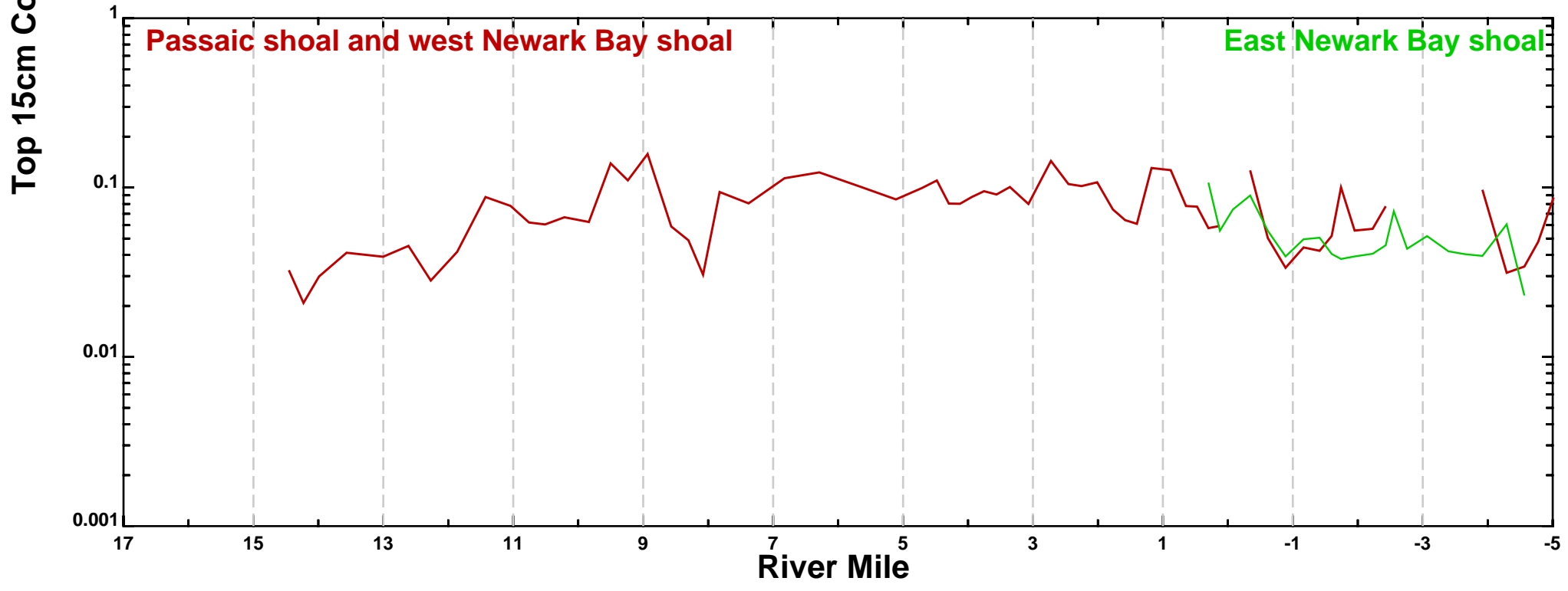
Year =2001.0

BZ#169 (ug/kg)



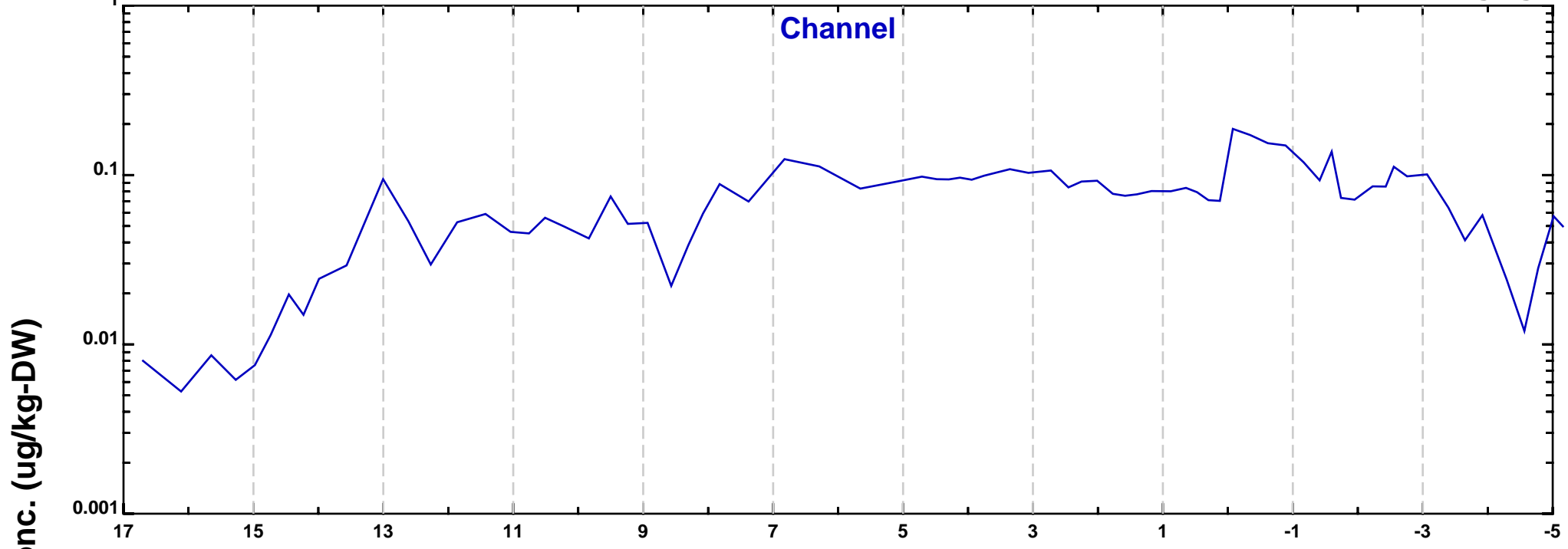
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



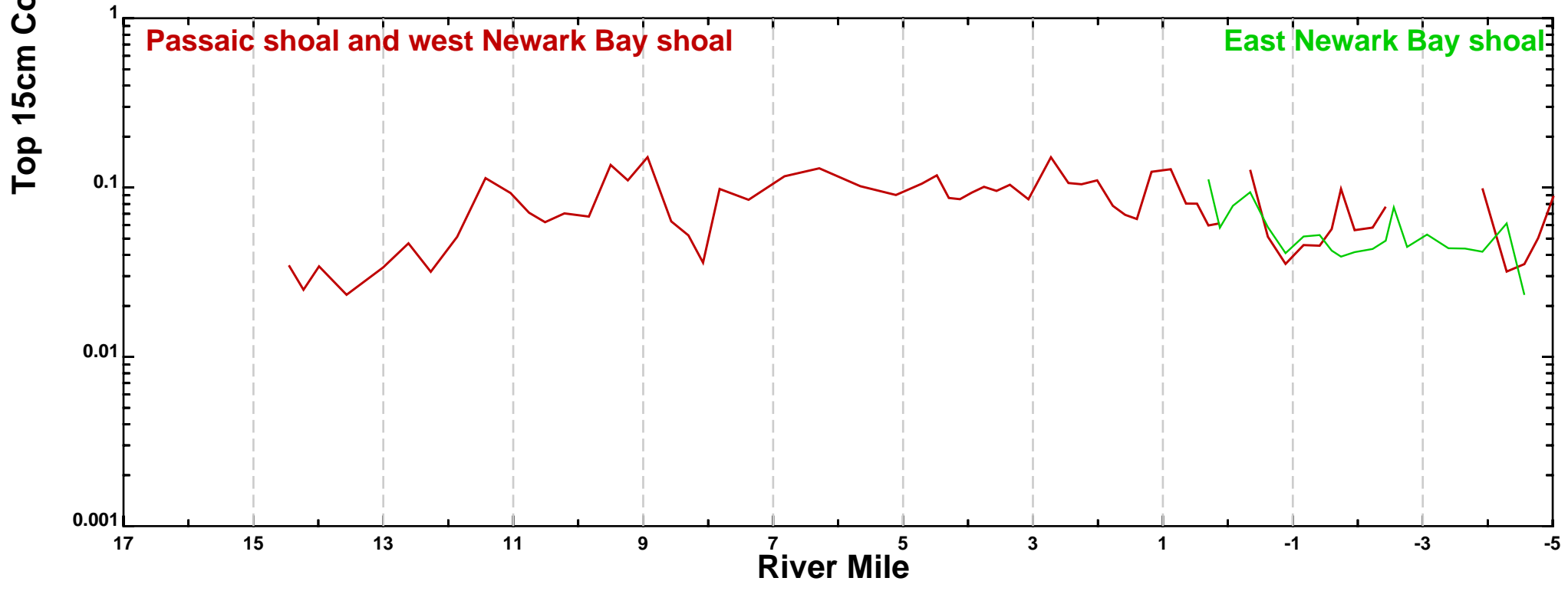
Year =2002.0

BZ#169 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

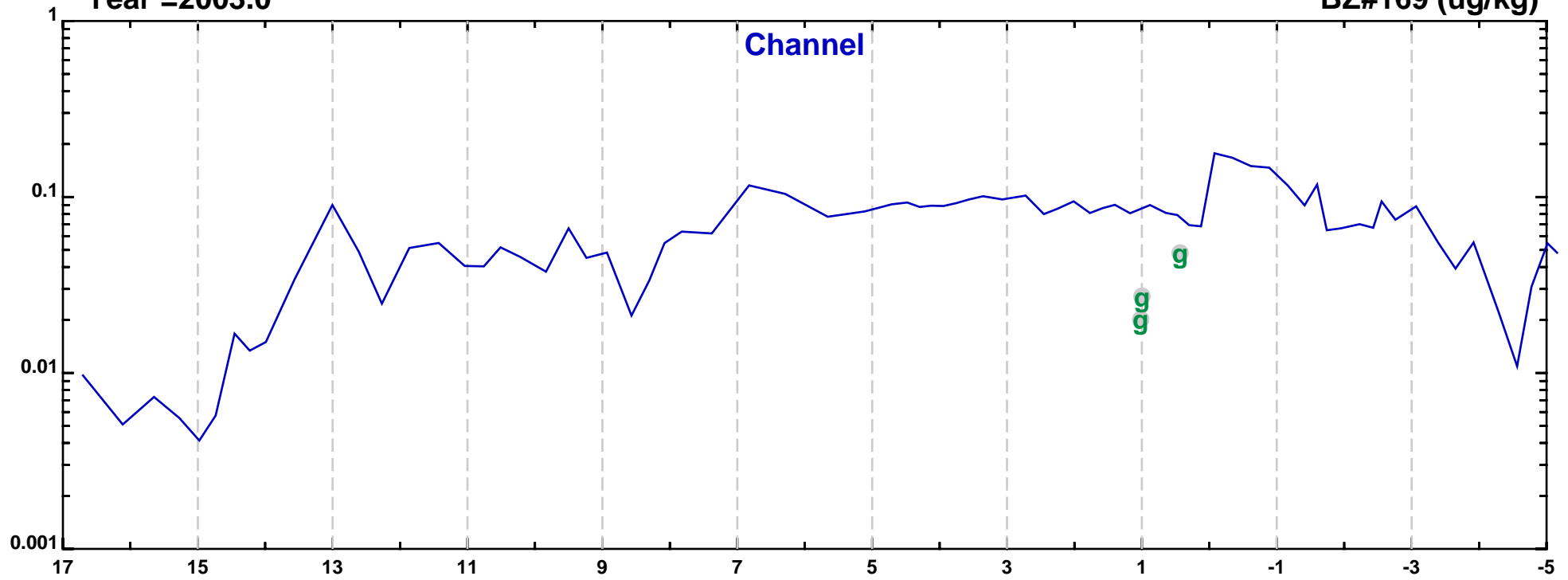


Year =2003.0

BZ#169 (ug/kg)

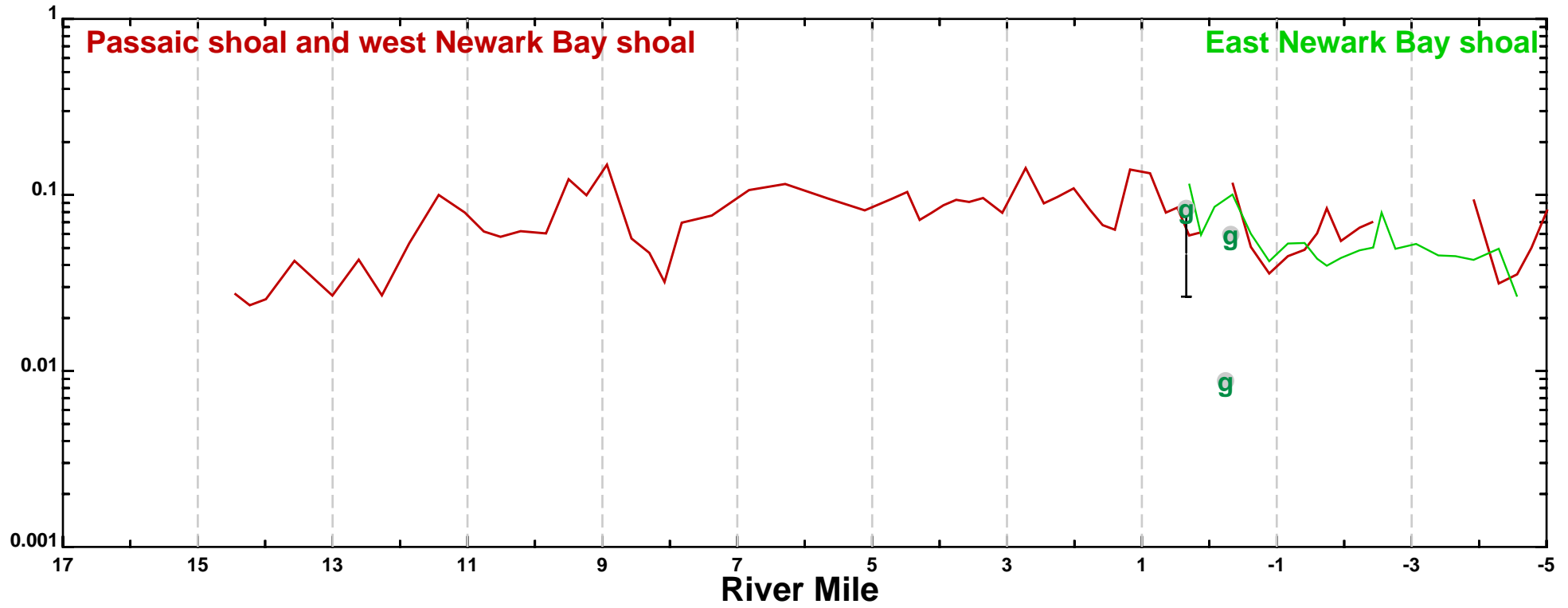
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



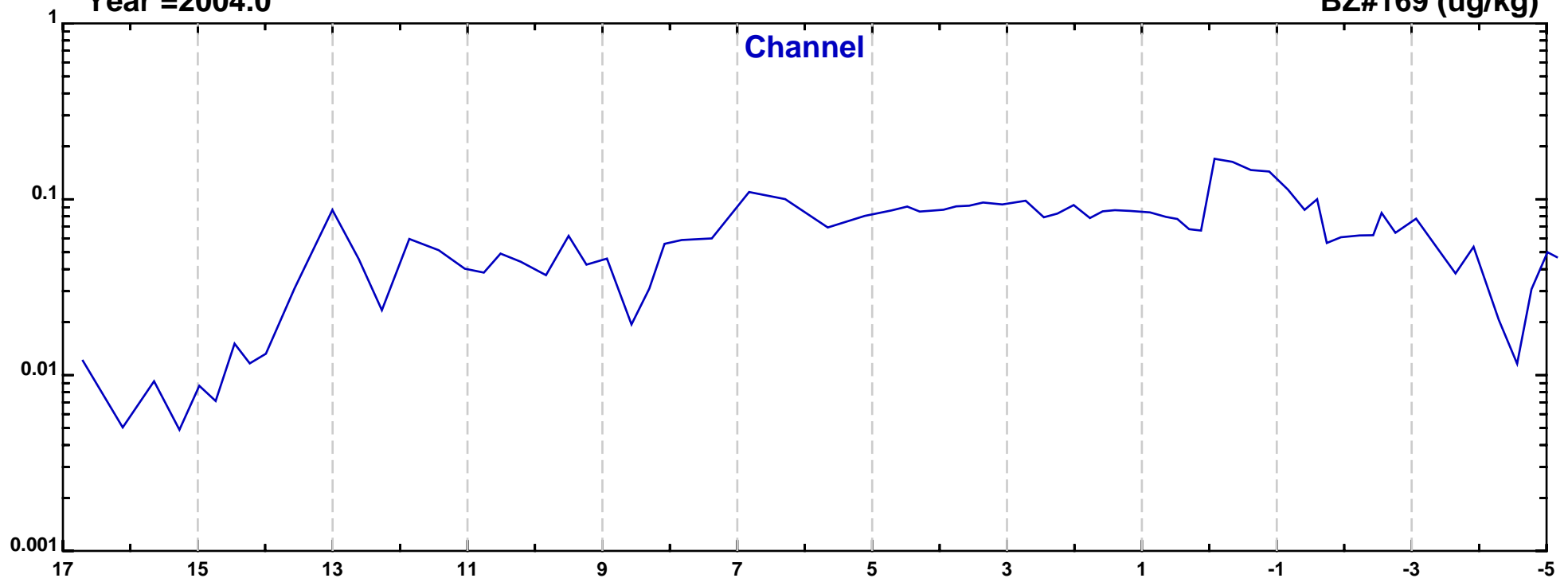
River Mile

Year =2004.0

BZ#169 (ug/kg)

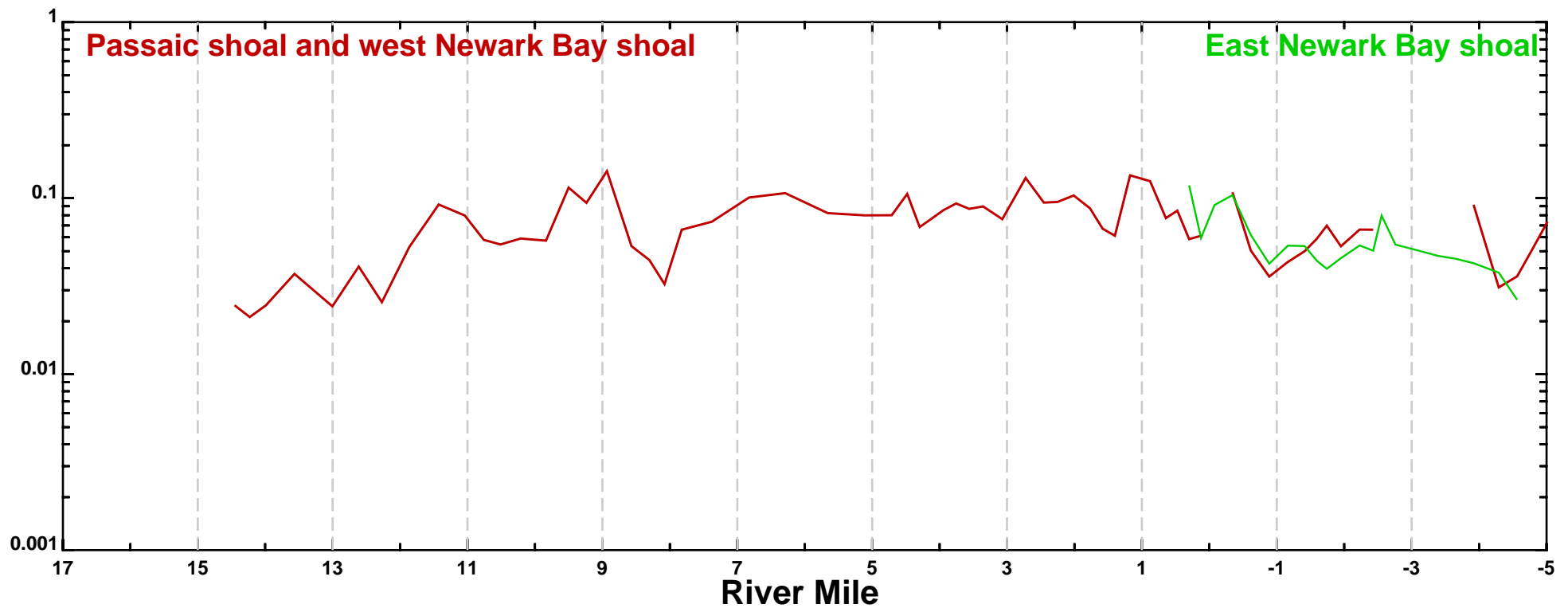
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



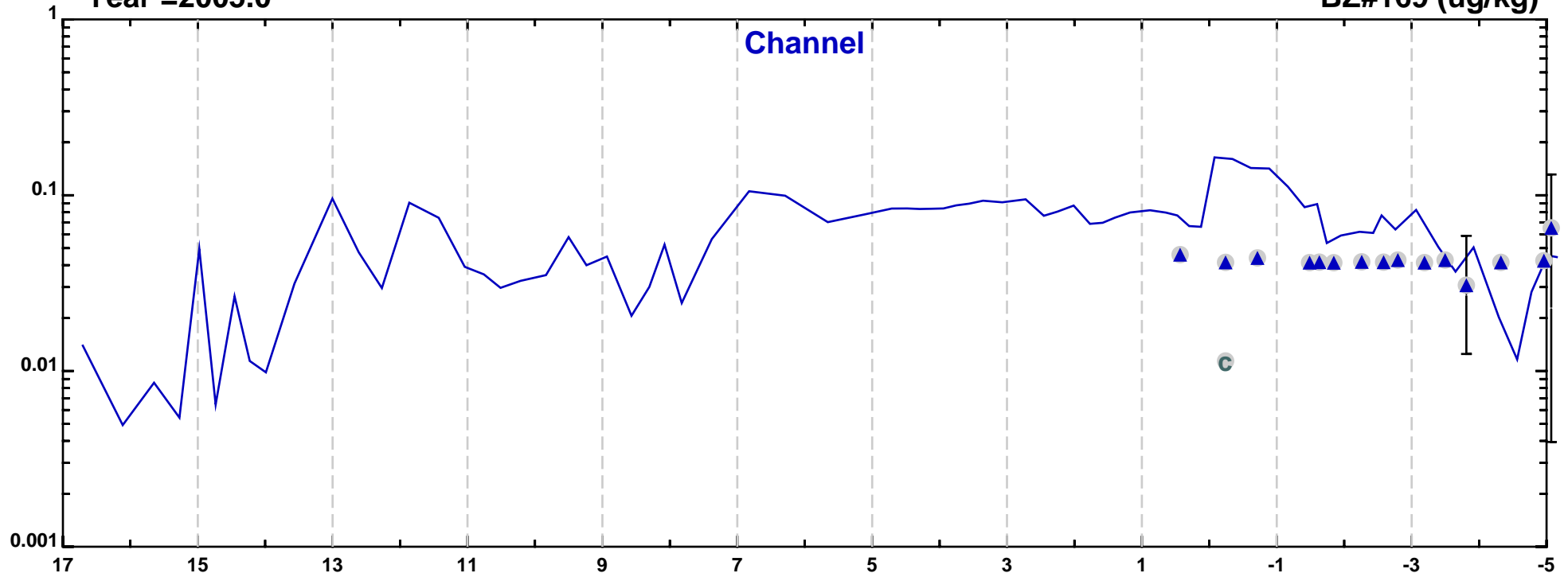
River Mile

Year =2005.0

BZ#169 (ug/kg)

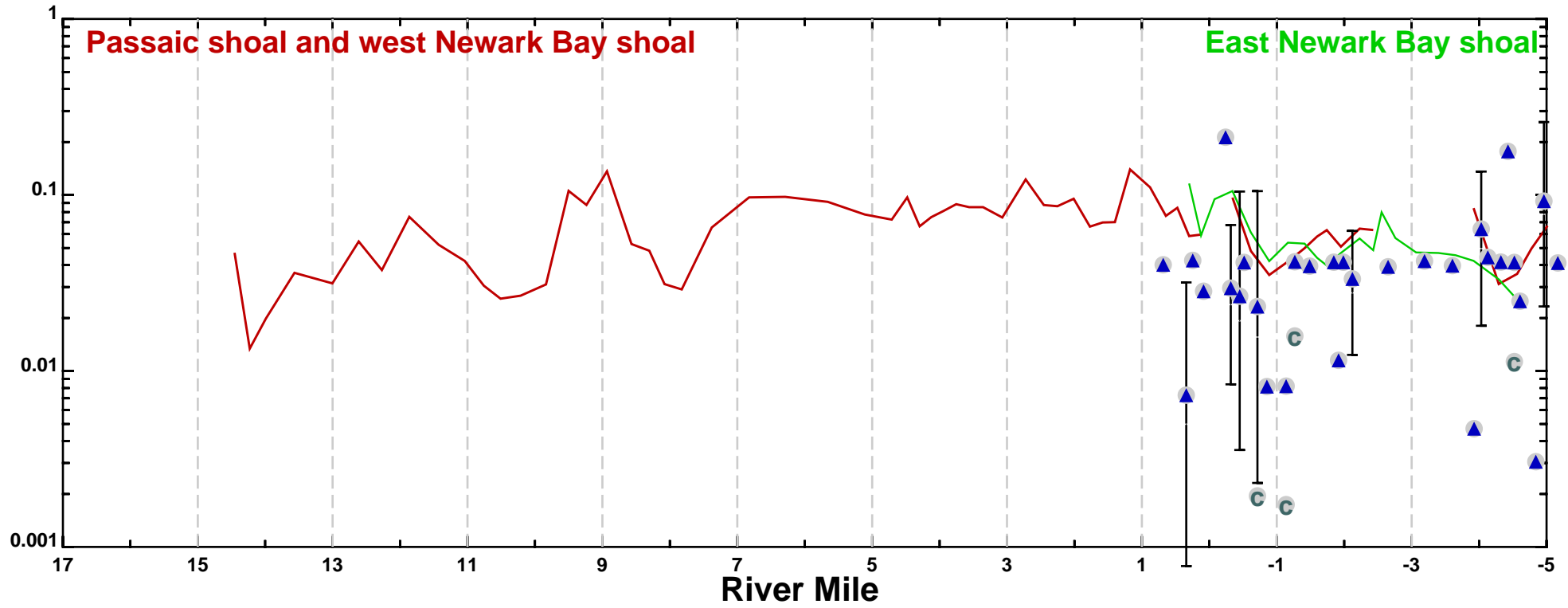
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

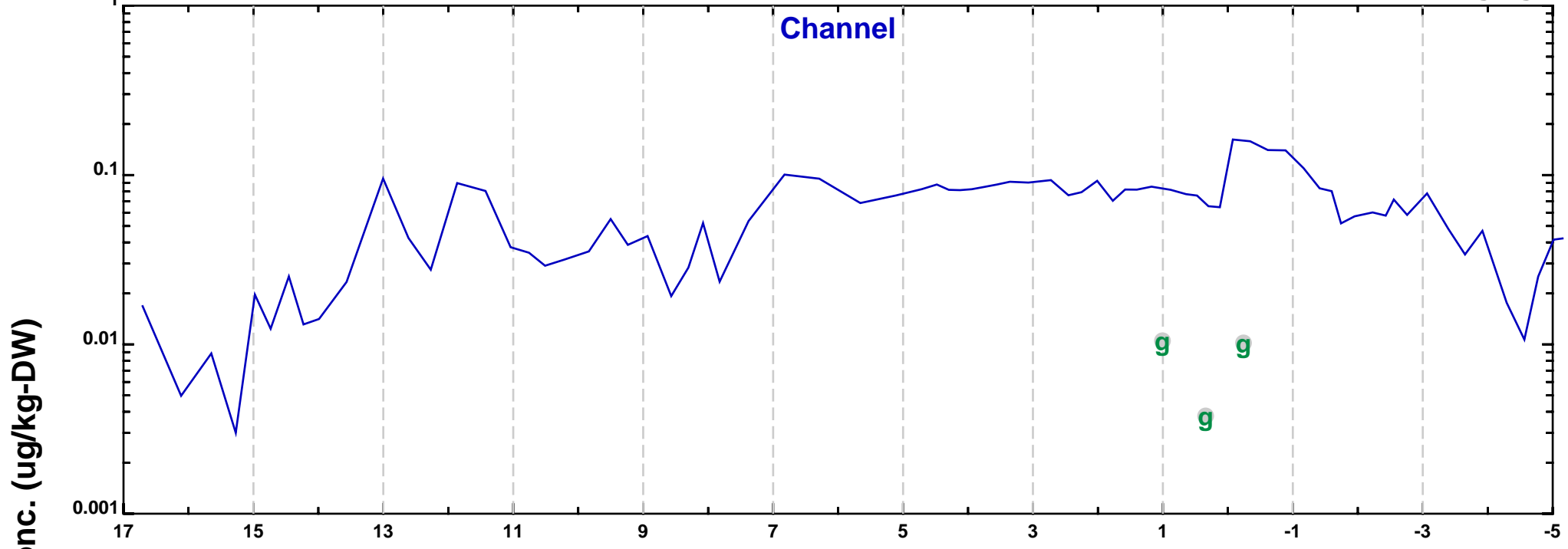


River Mile



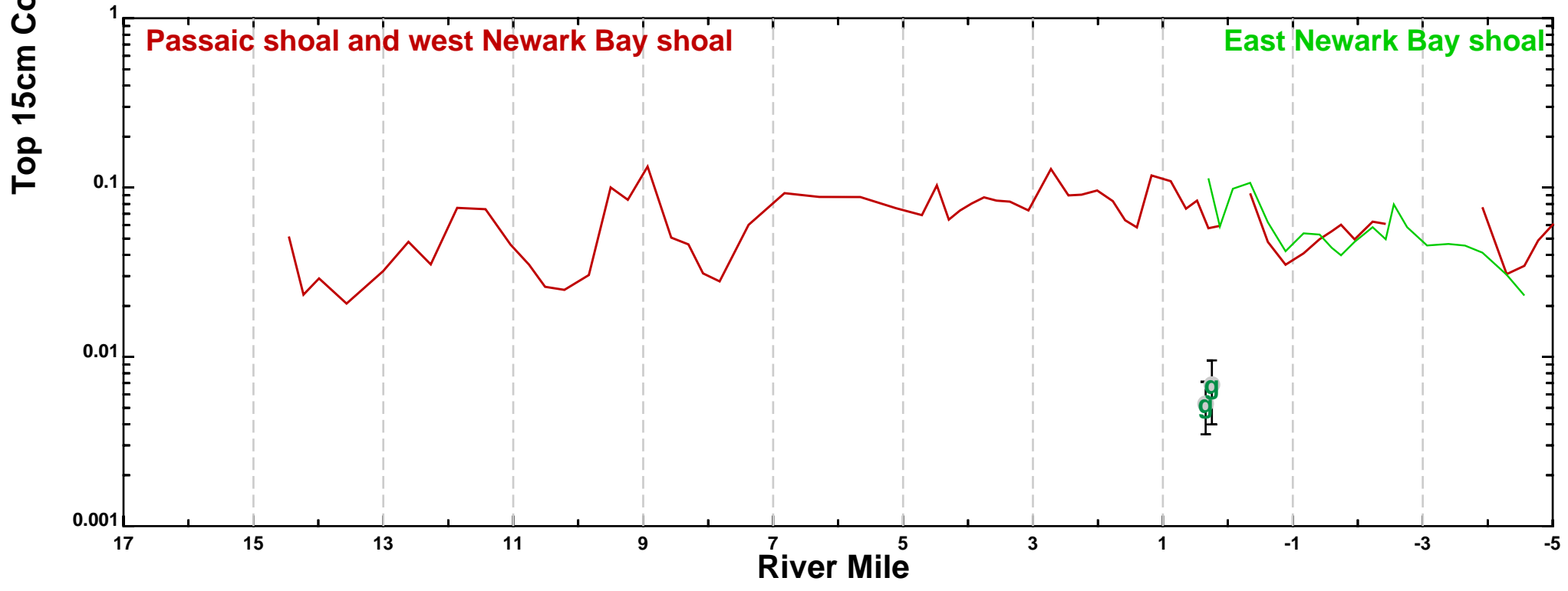
Year =2006.0

BZ#169 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

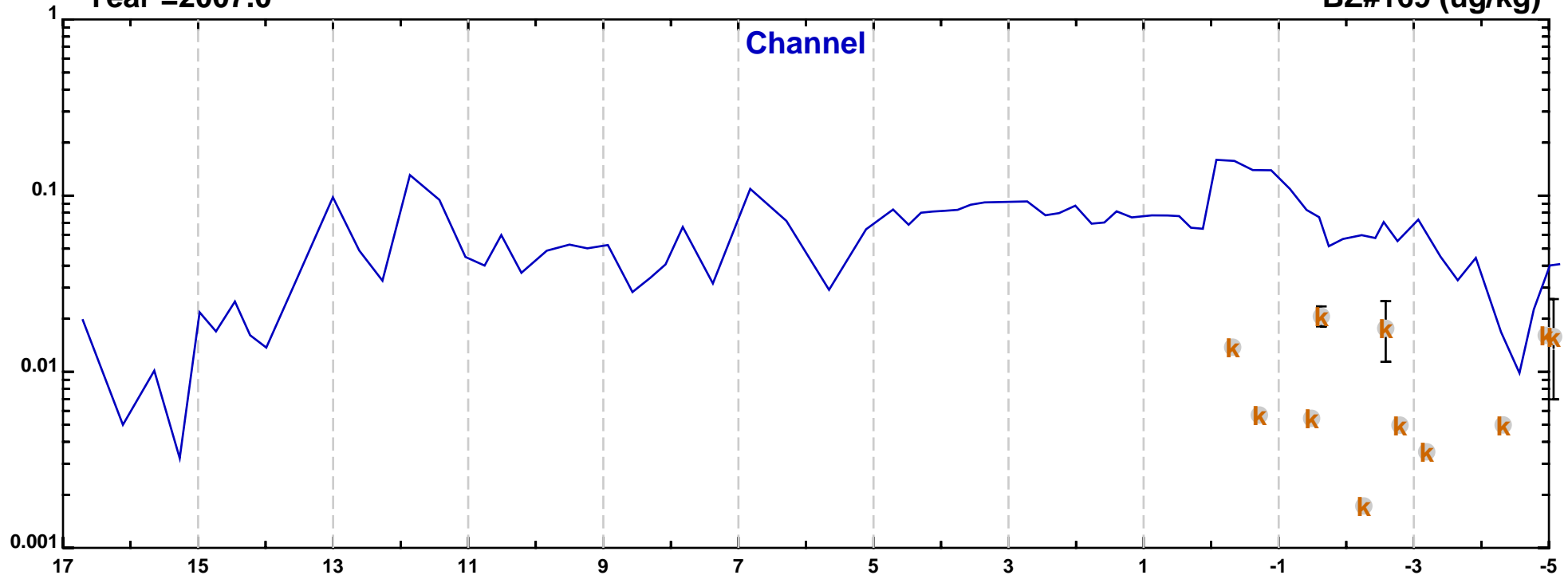


Year =2007.0

BZ#169 (ug/kg)

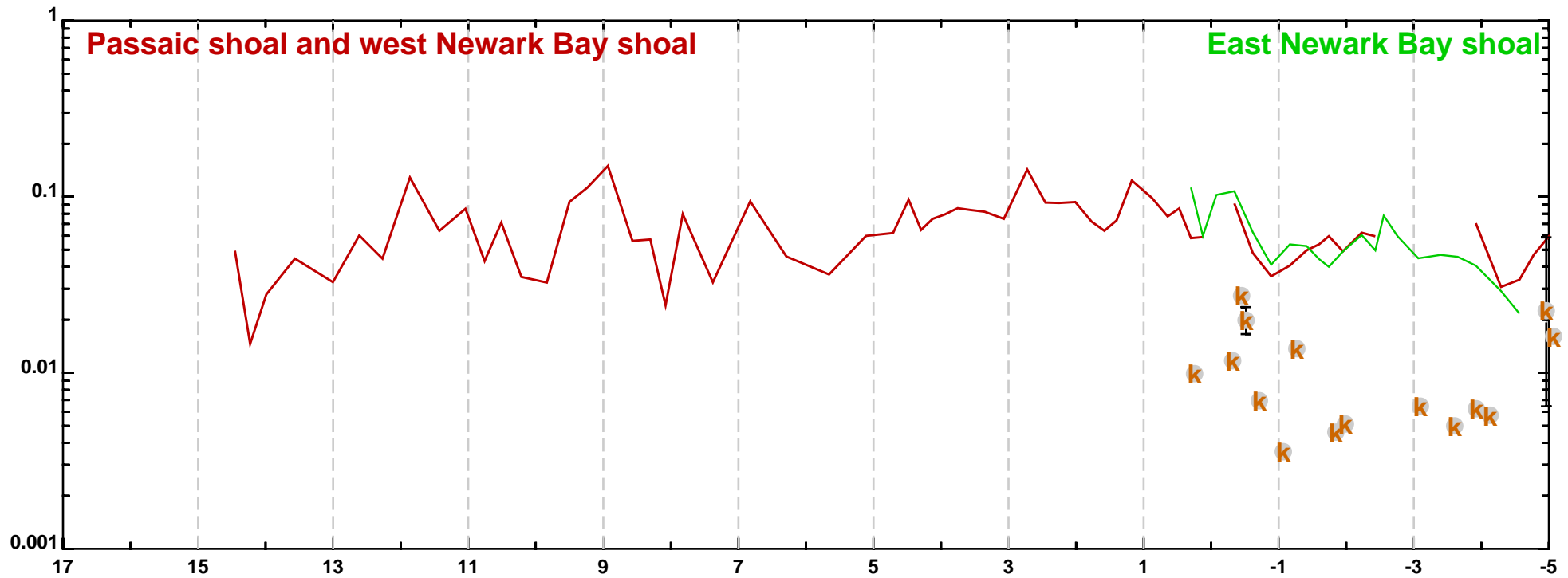
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

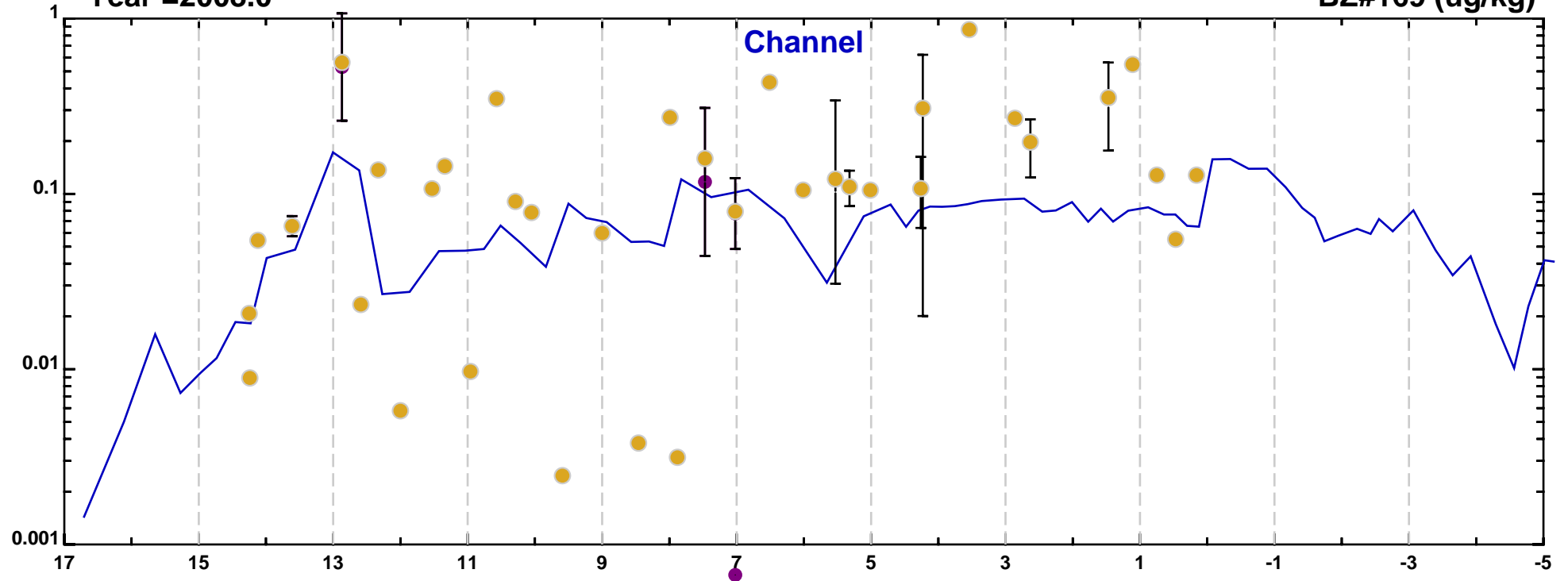


River Mile

Year =2008.0

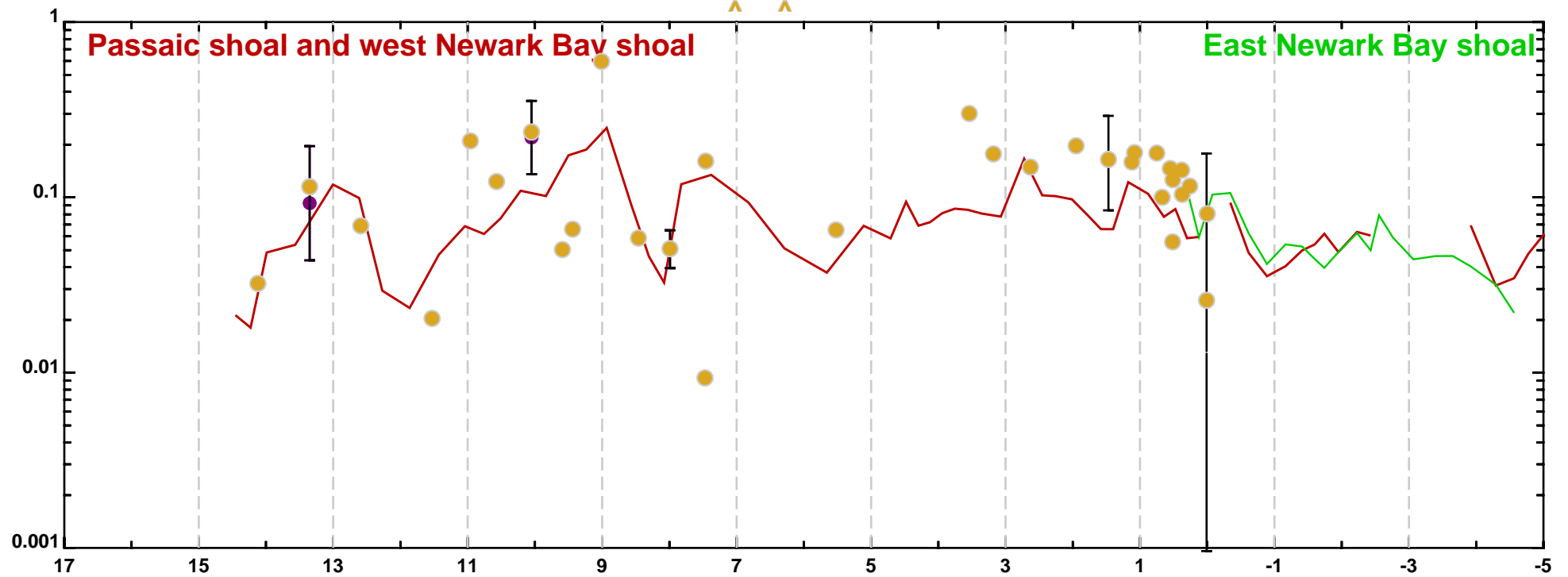
BZ#169 (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



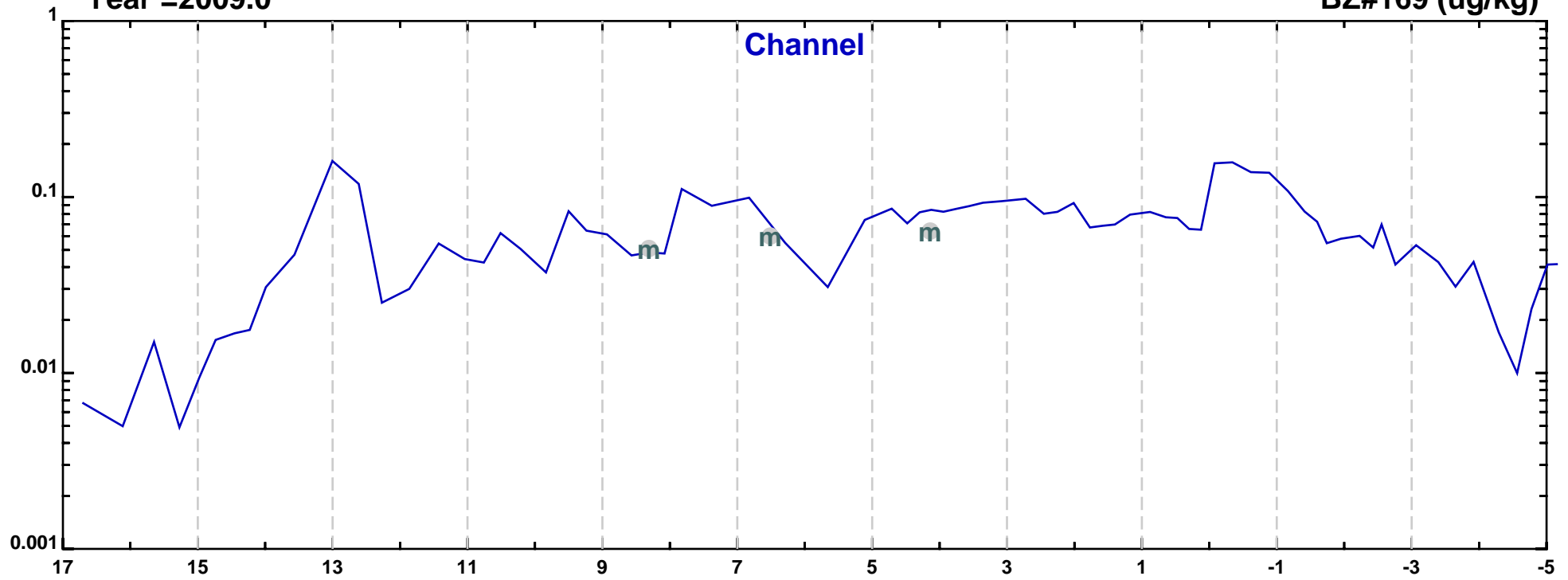
River Mile

Year =2009.0

BZ#169 (ug/kg)

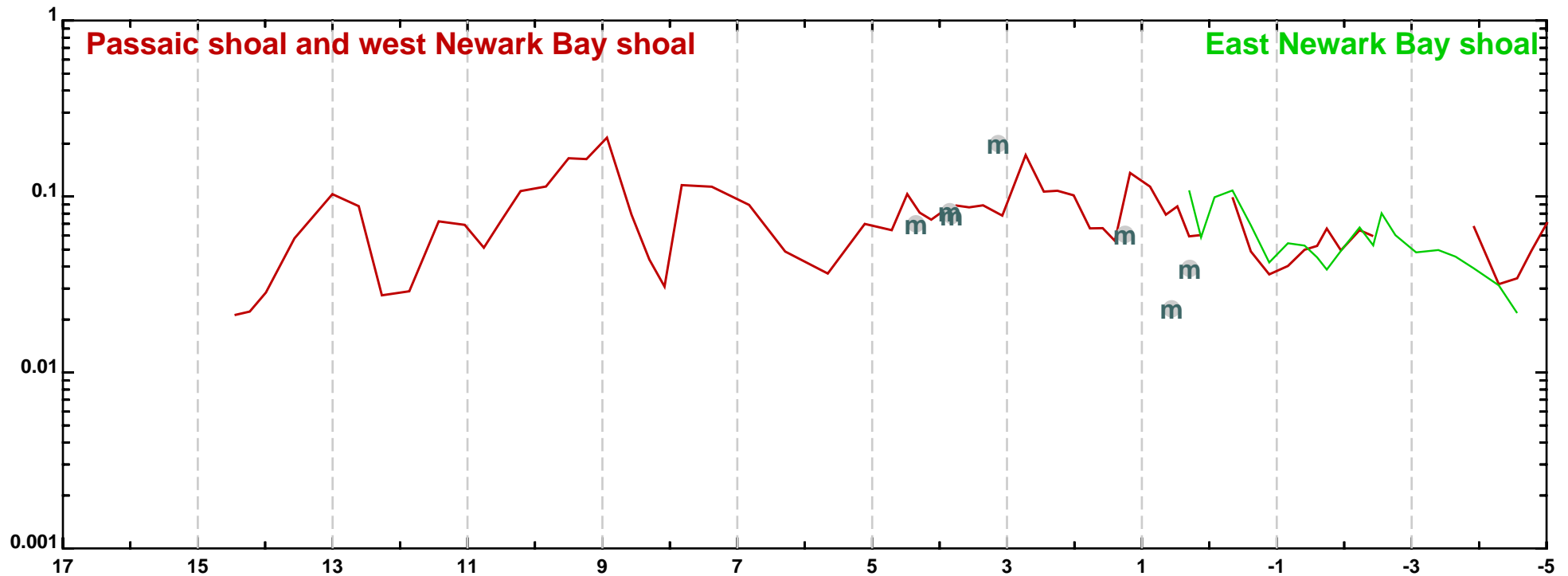
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

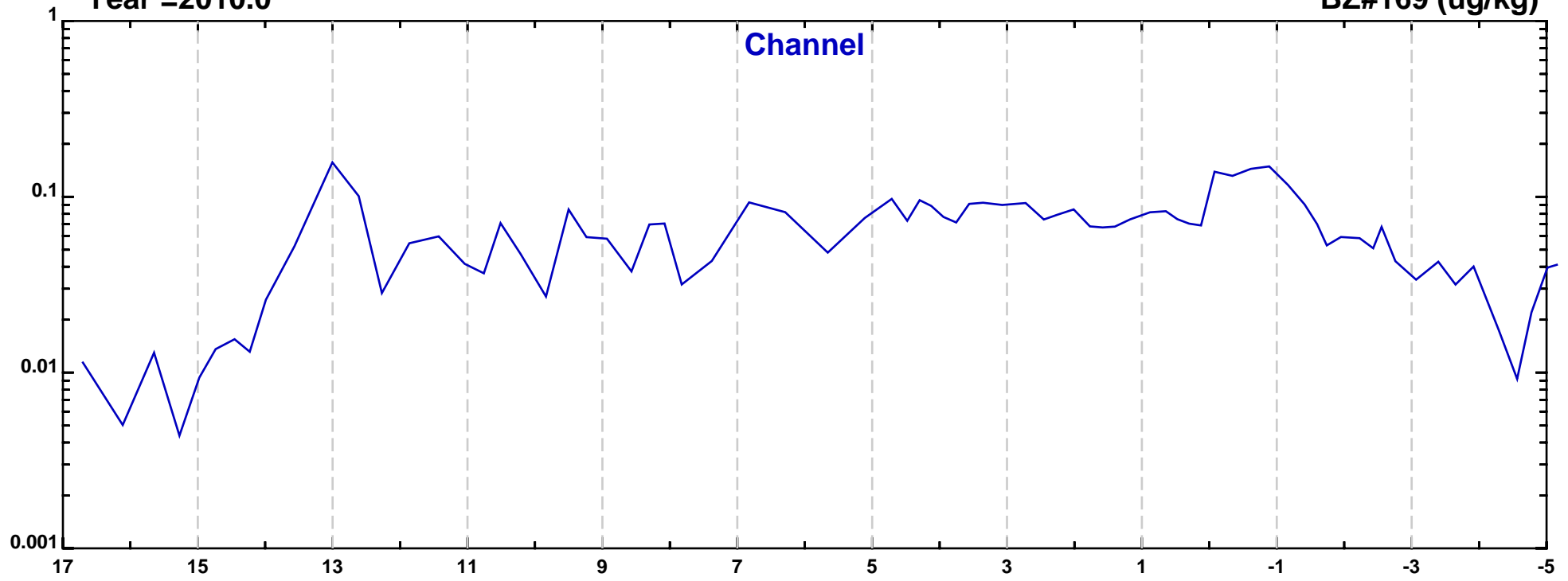


Year =2010.0

BZ#169 (ug/kg)

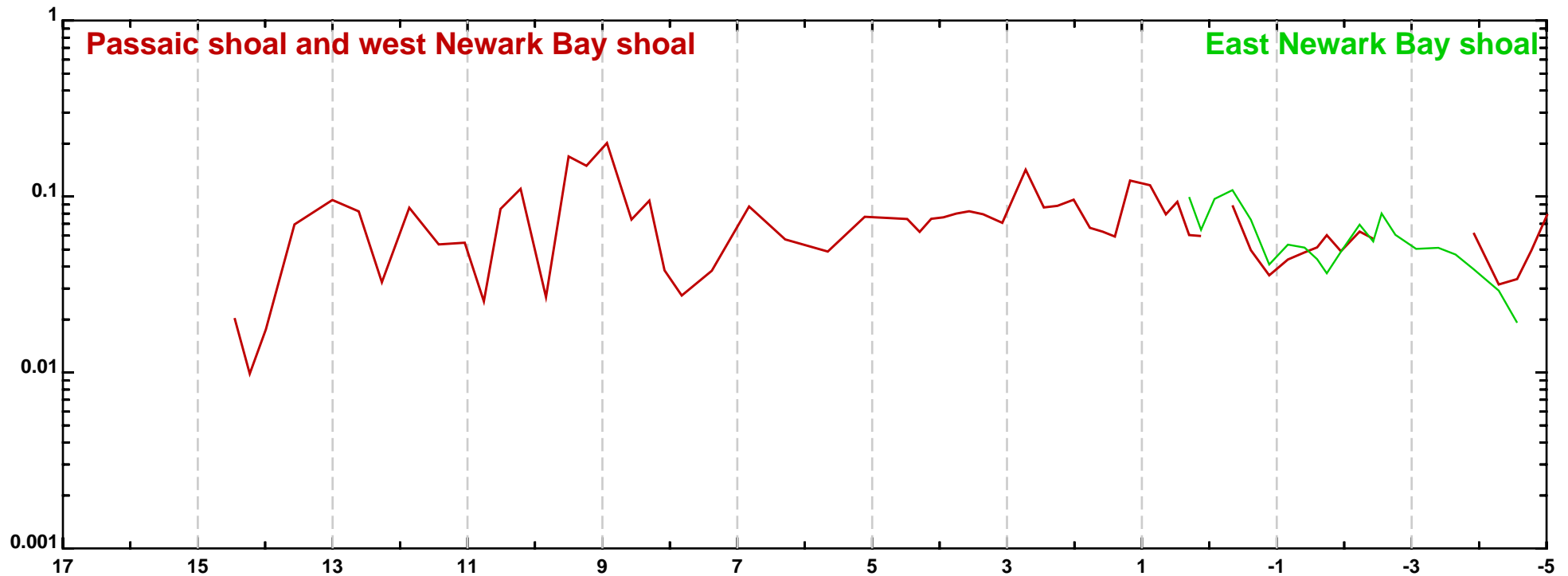
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



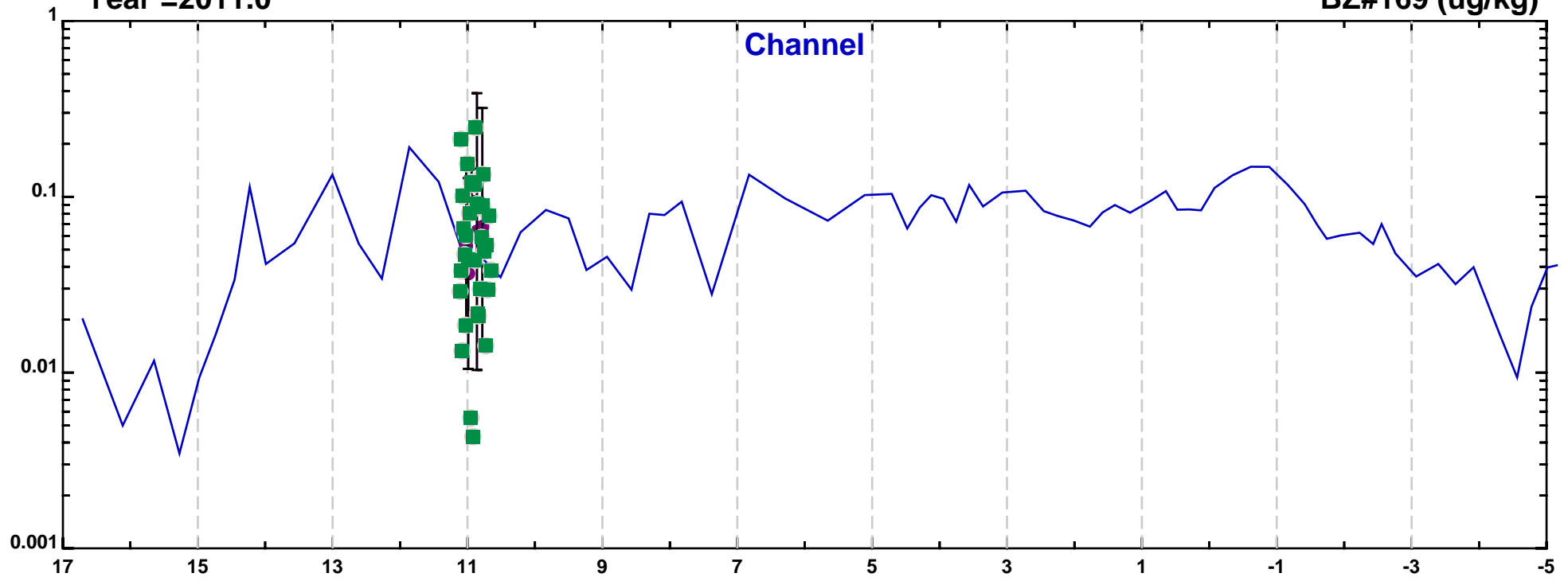
River Mile

Year =2011.0

BZ#169 (ug/kg)

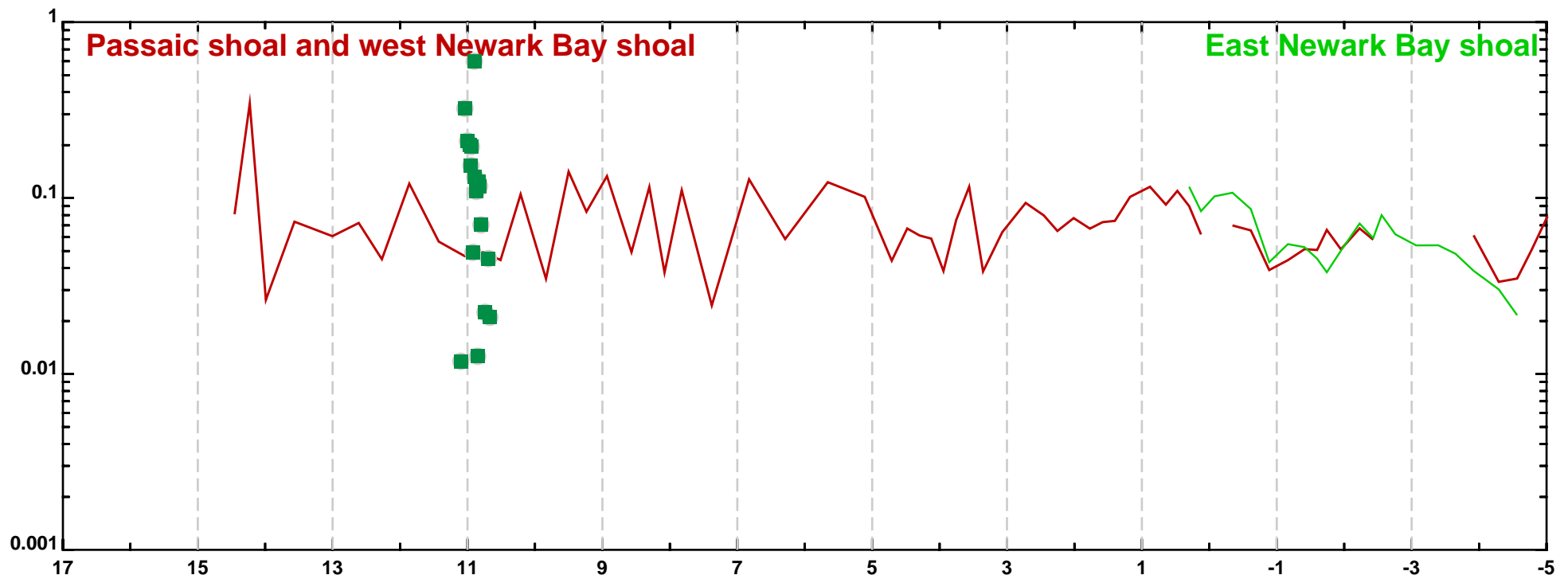
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



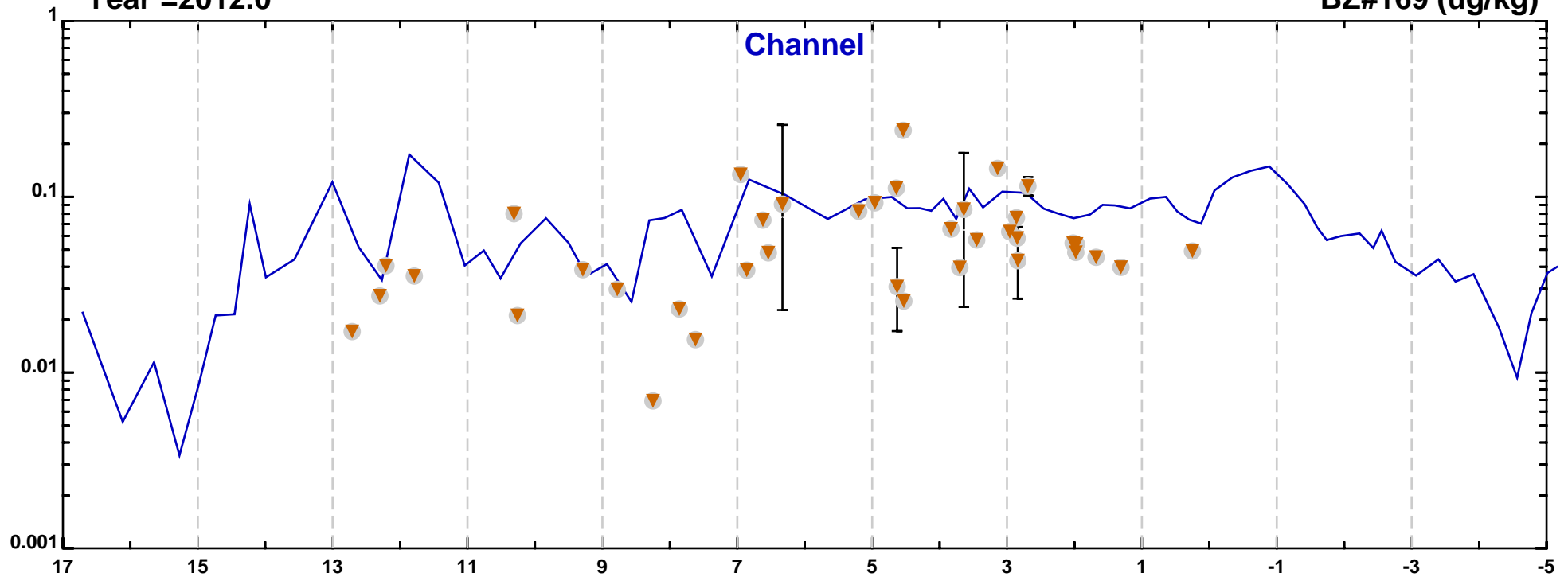
River Mile

Year =2012.0

BZ#169 (ug/kg)

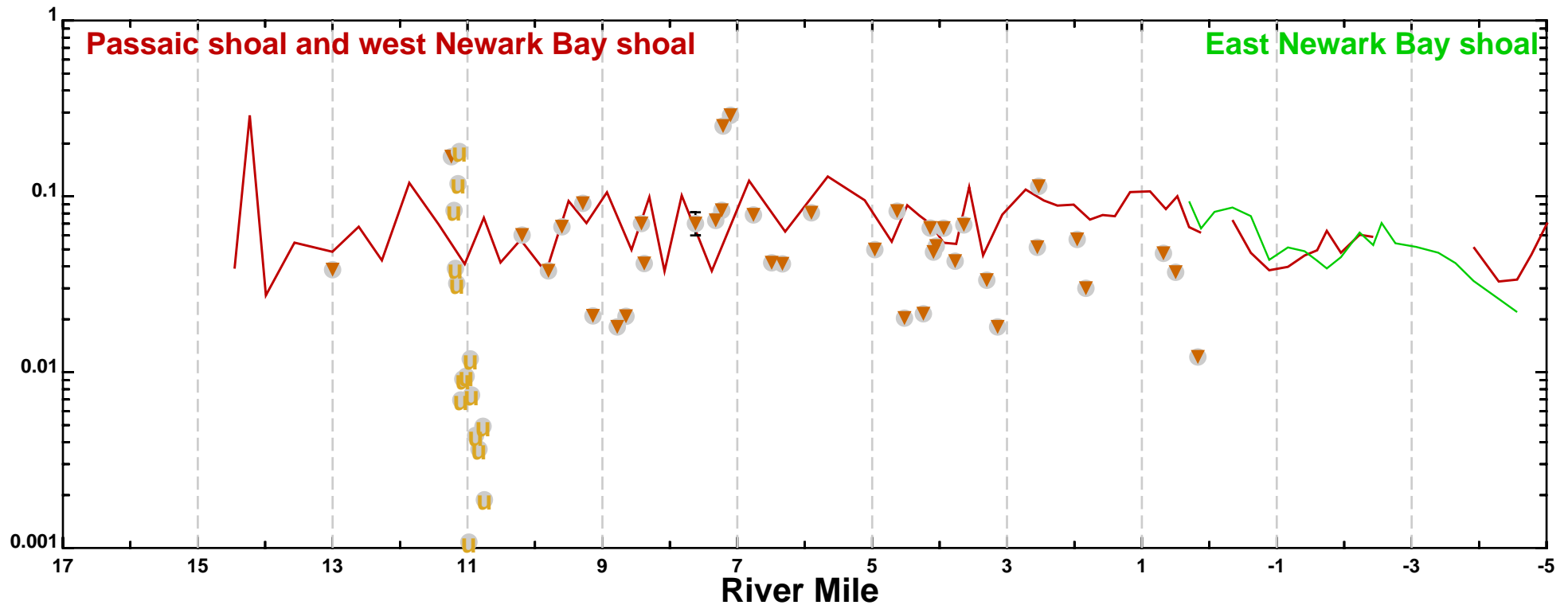
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



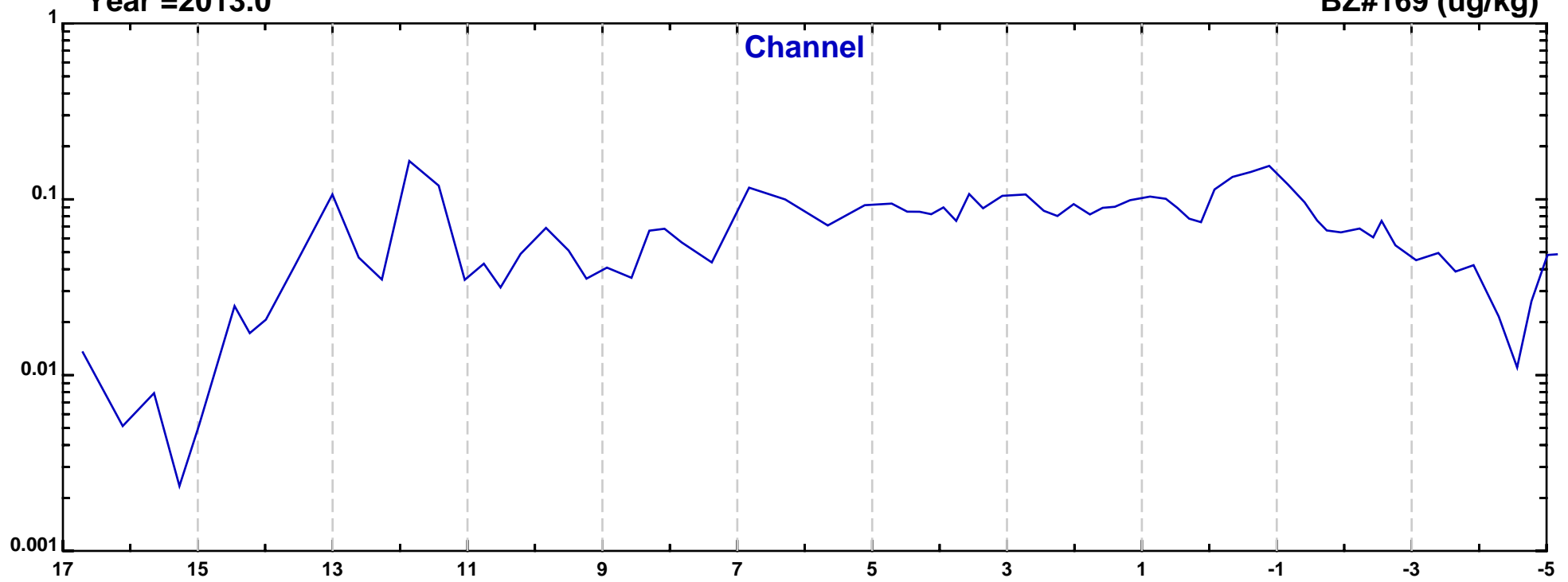
River Mile

Year =2013.0

BZ#169 (ug/kg)

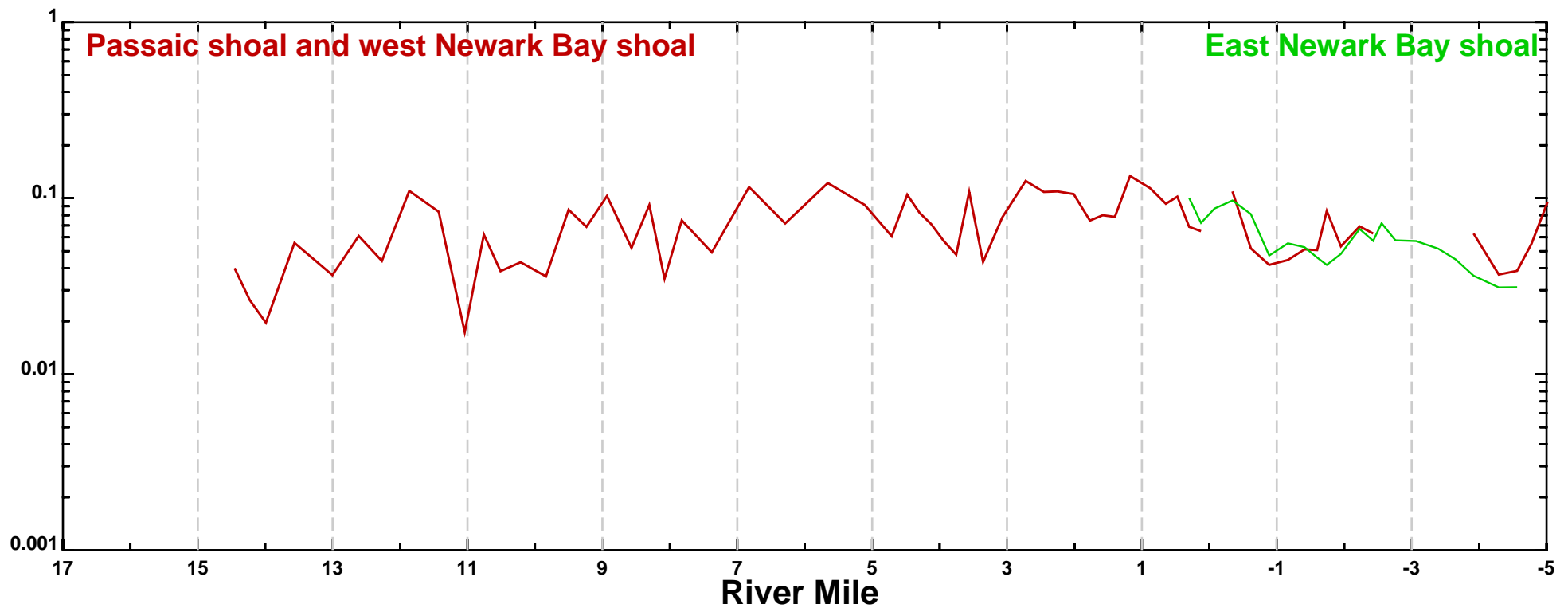
Top 15cm Conc. (ug/kg-DW)

Channel



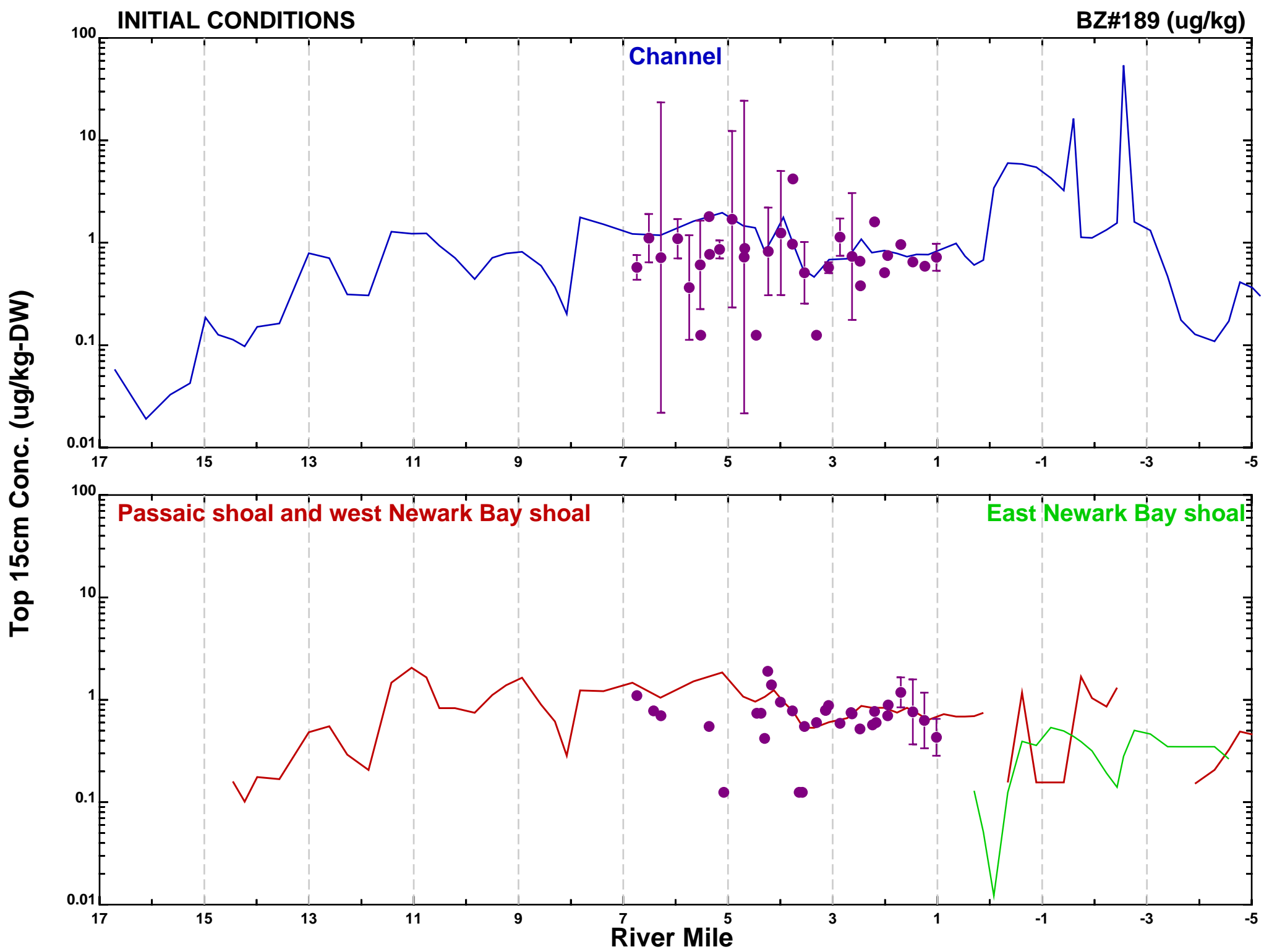
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



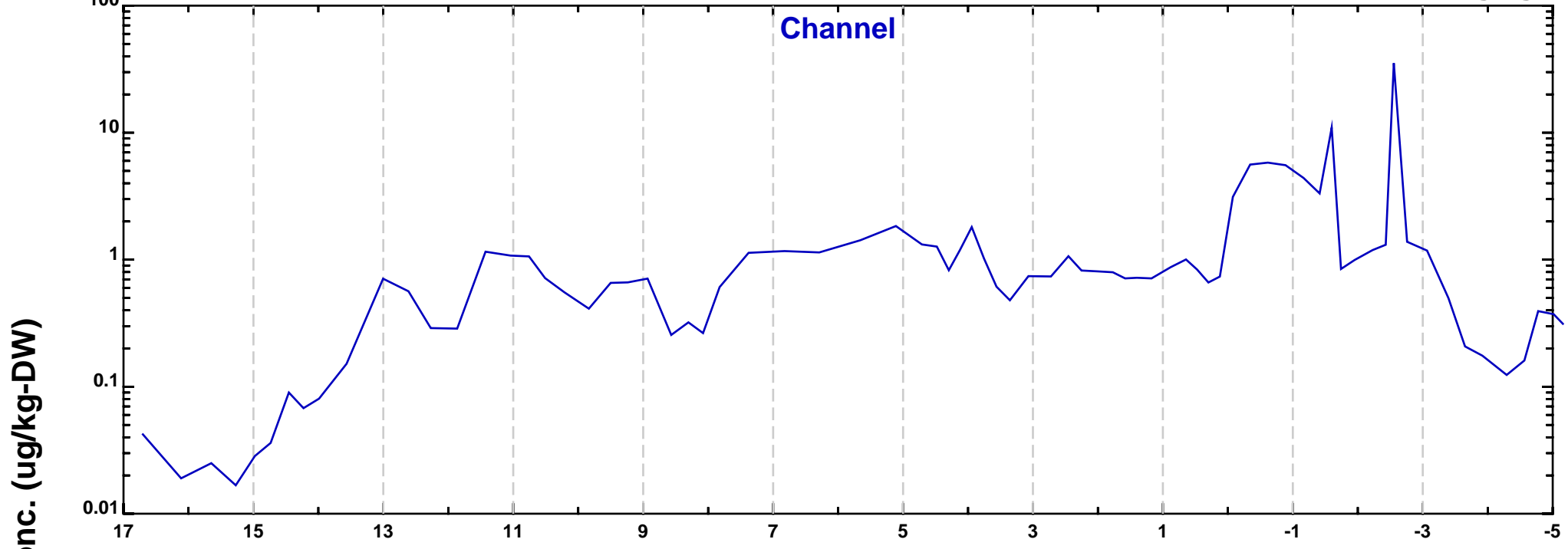
River Mile





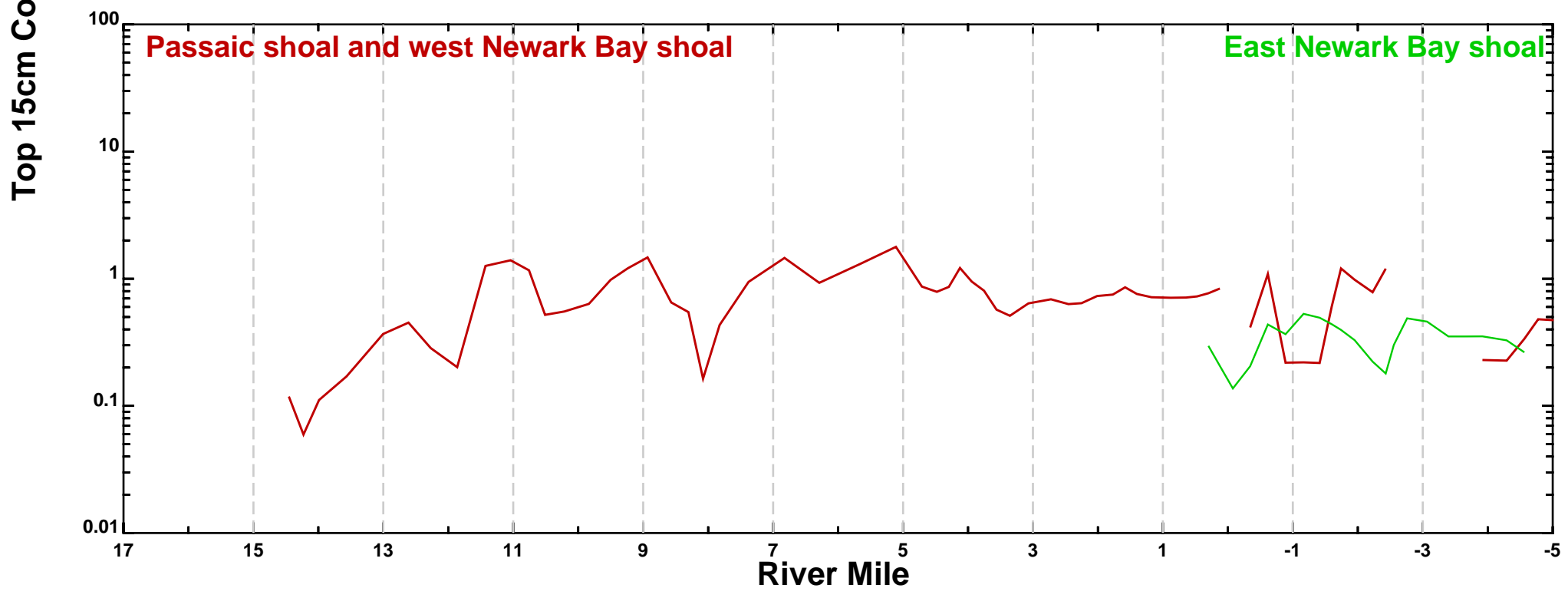
Year = 1996.0

BZ#189 (ug/kg)



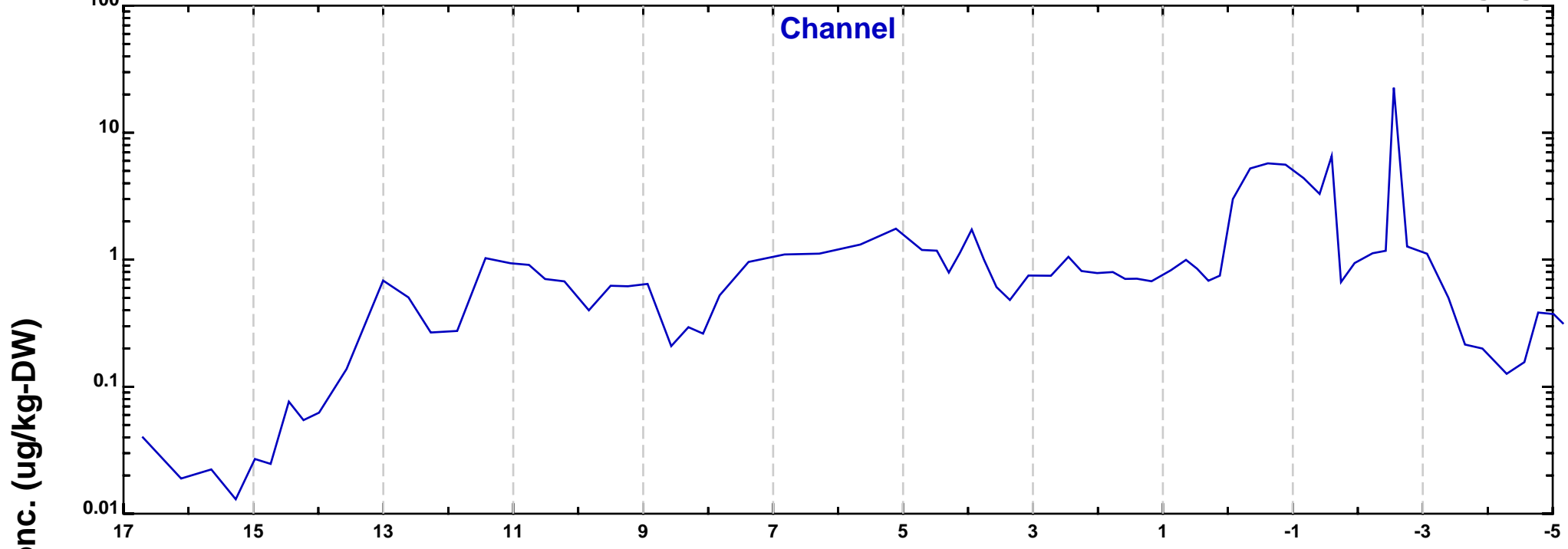
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



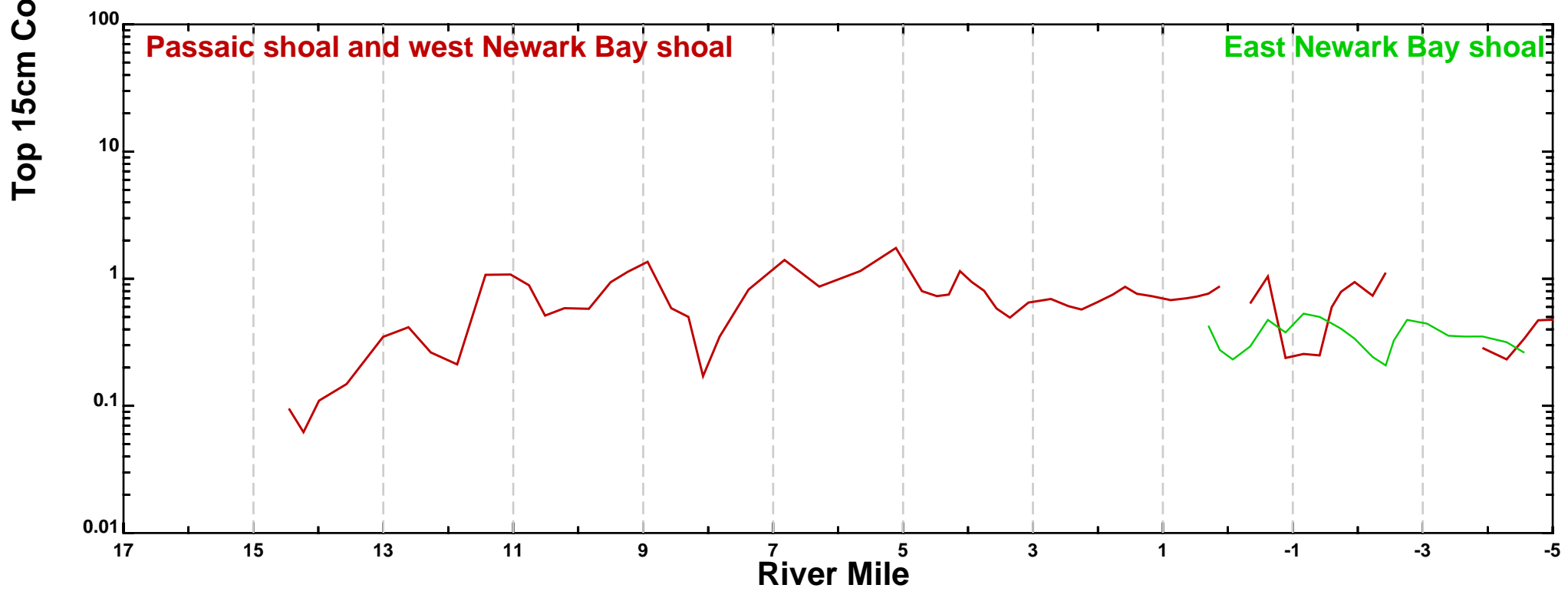
Year = 1997.0

BZ#189 (ug/kg)



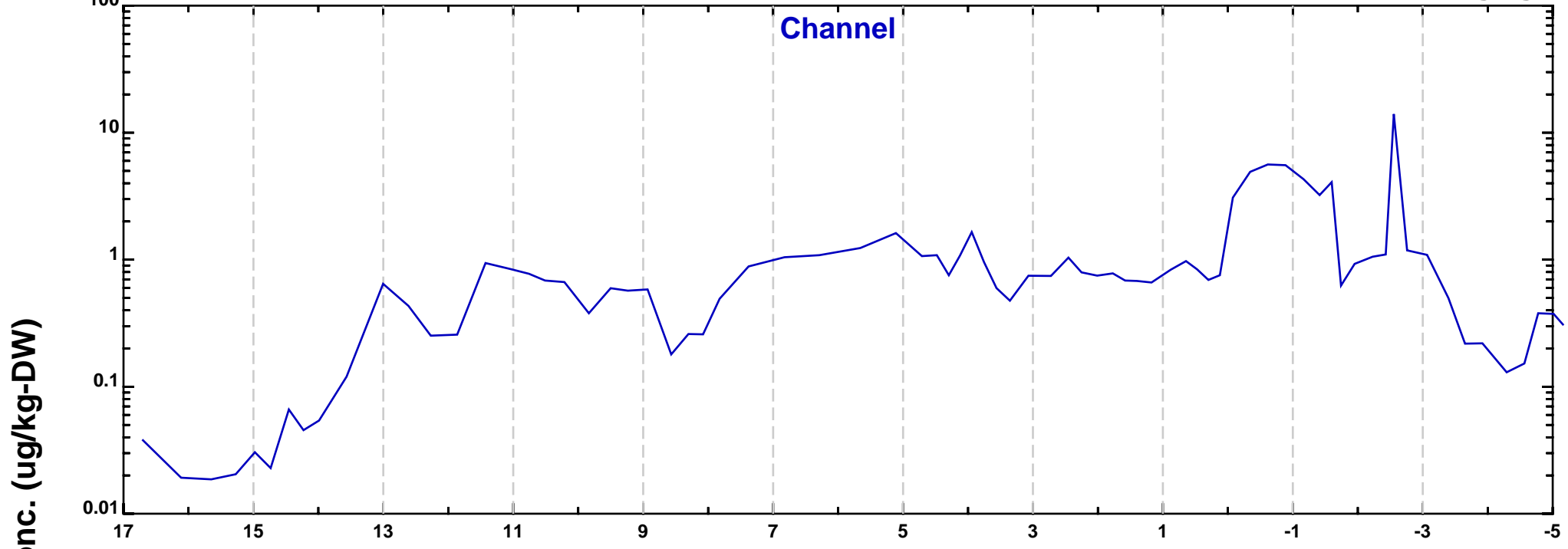
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



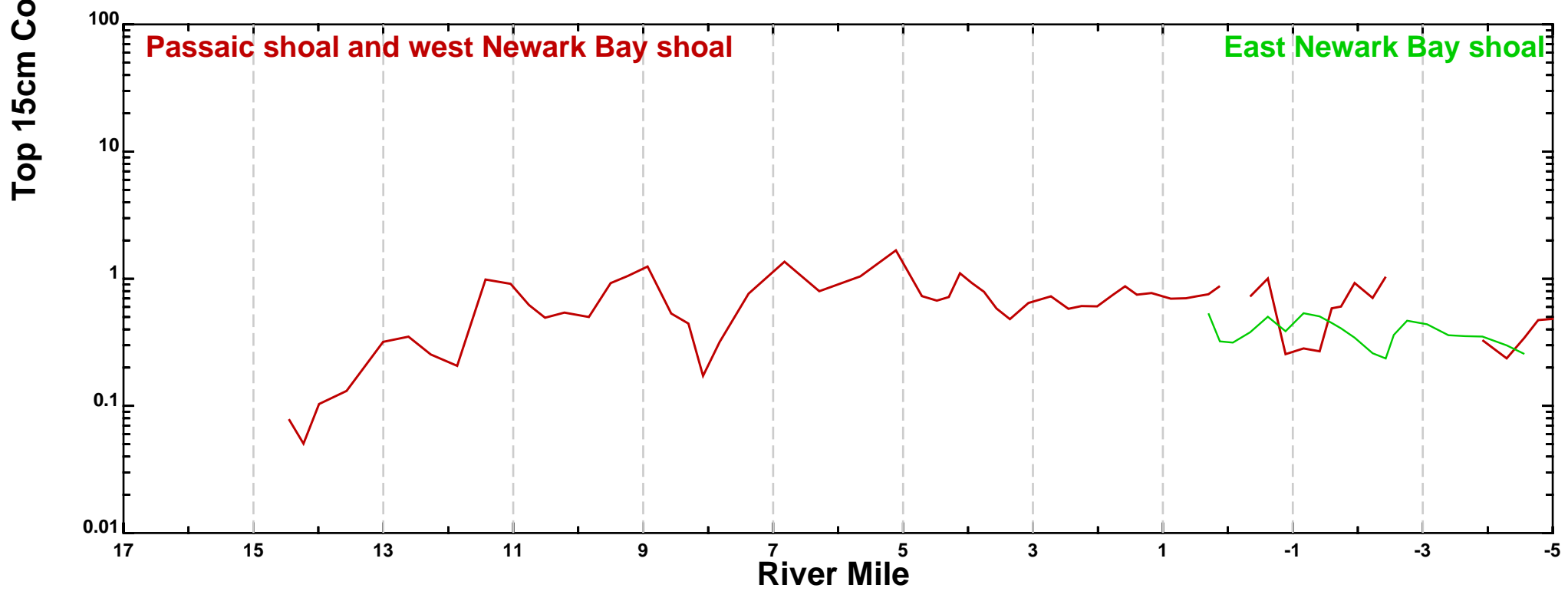
Year = 1998.0

BZ#189 (ug/kg)



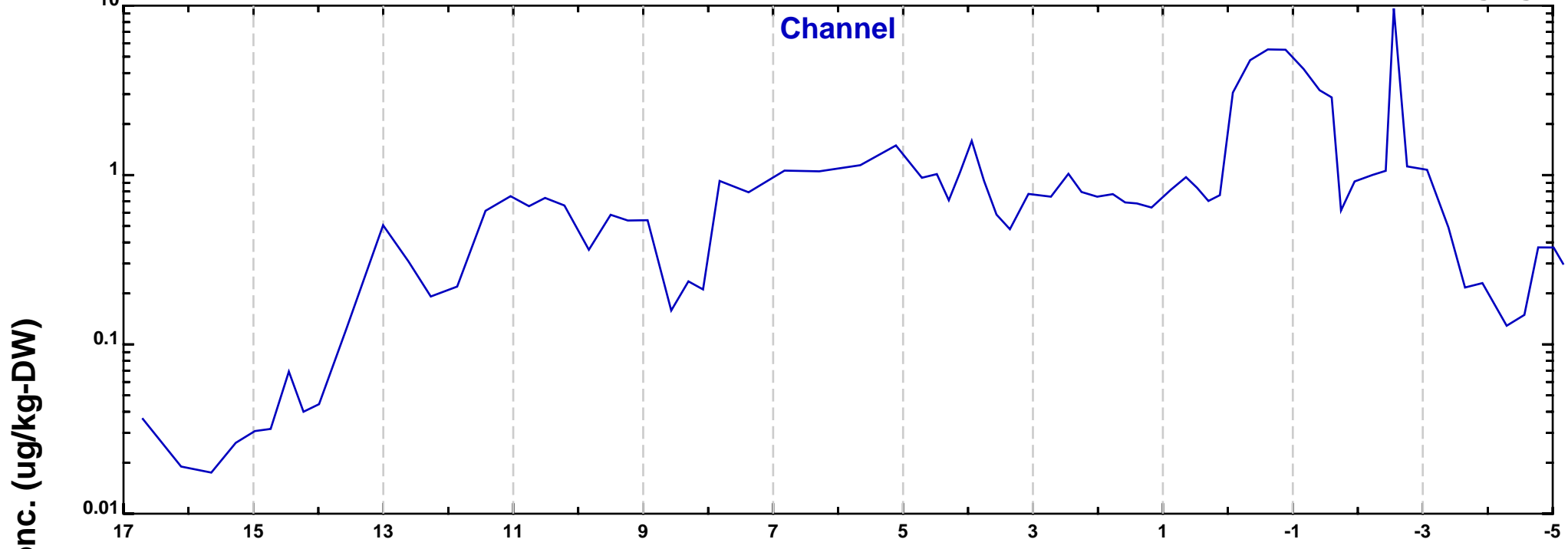
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



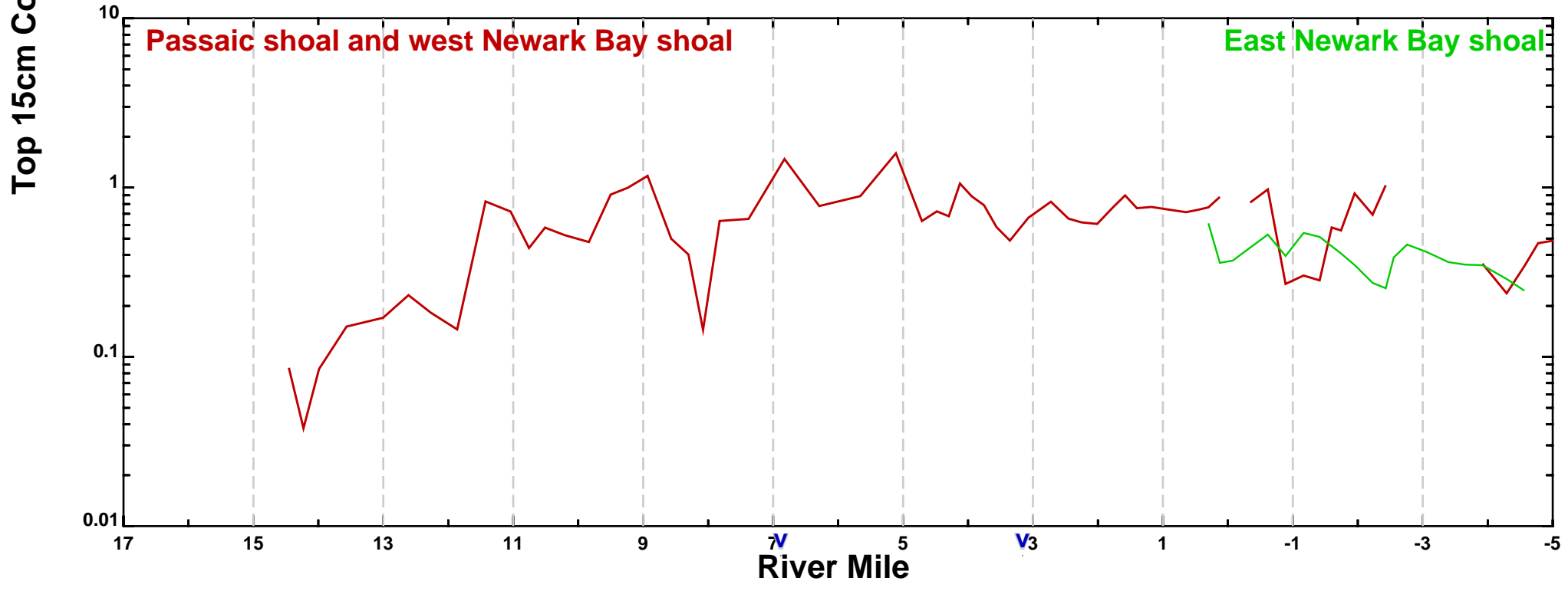
Year = 1999.0

BZ#189 (ug/kg)



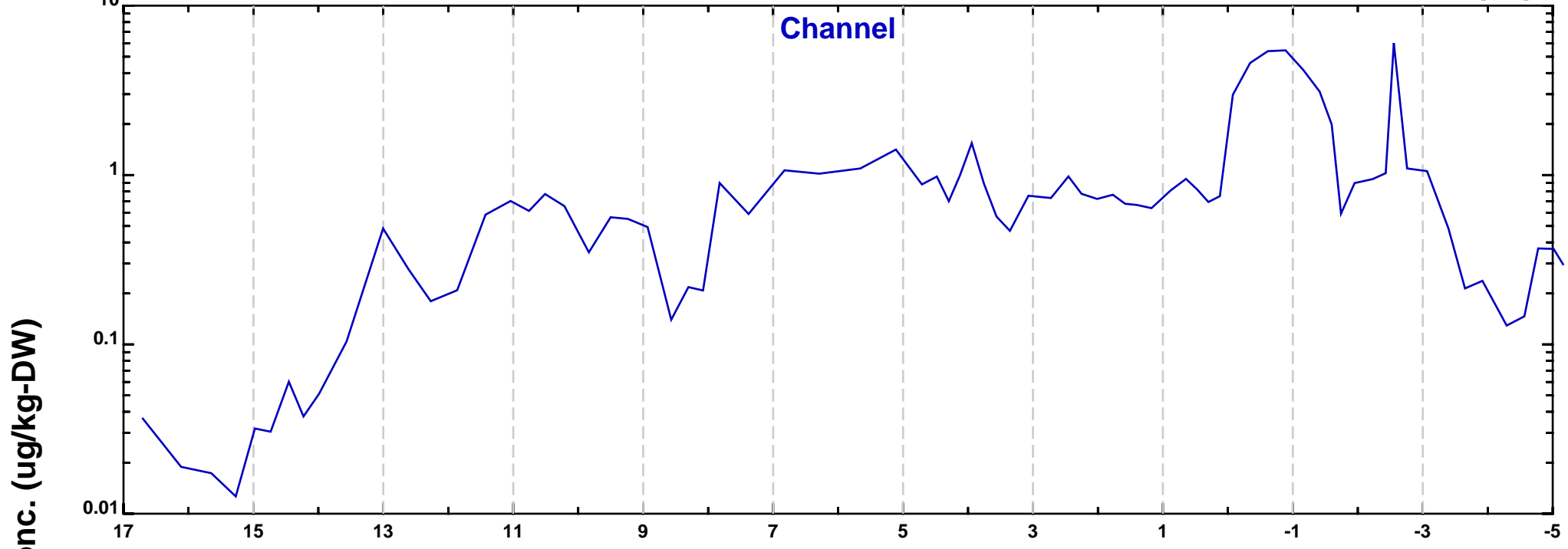
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



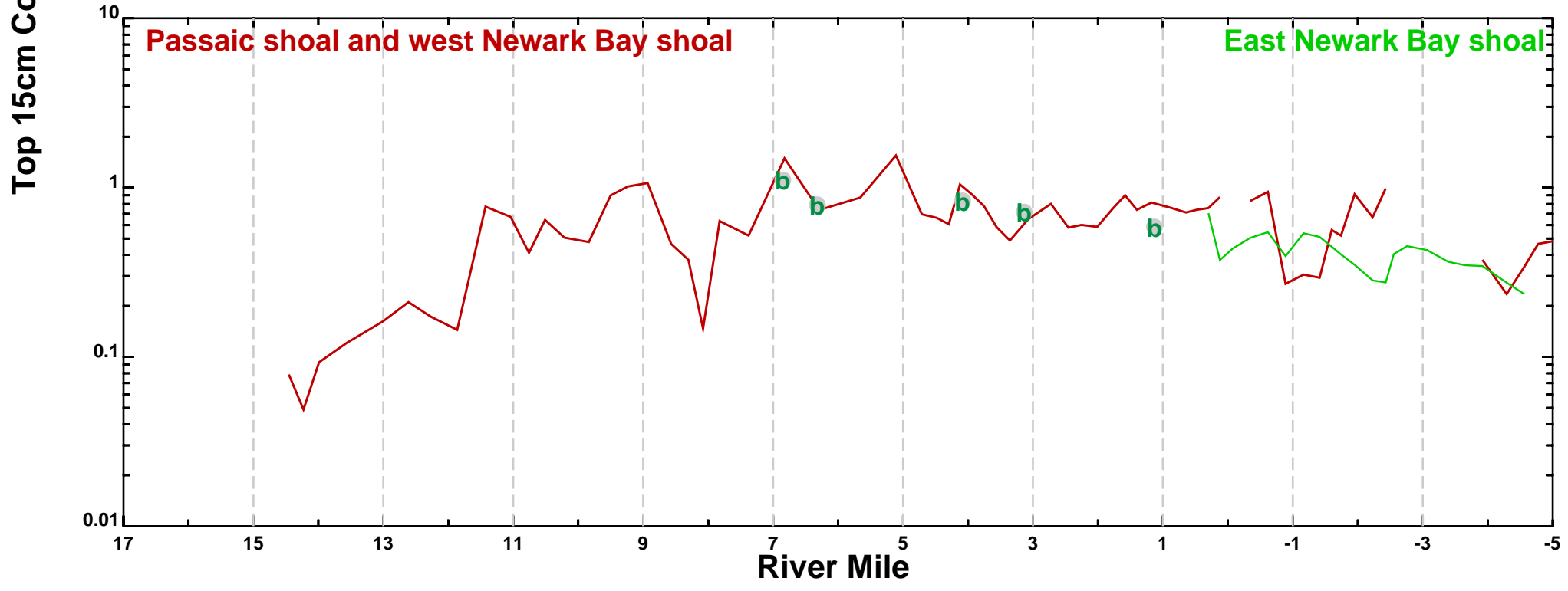
Year =2000.0

BZ#189 (ug/kg)



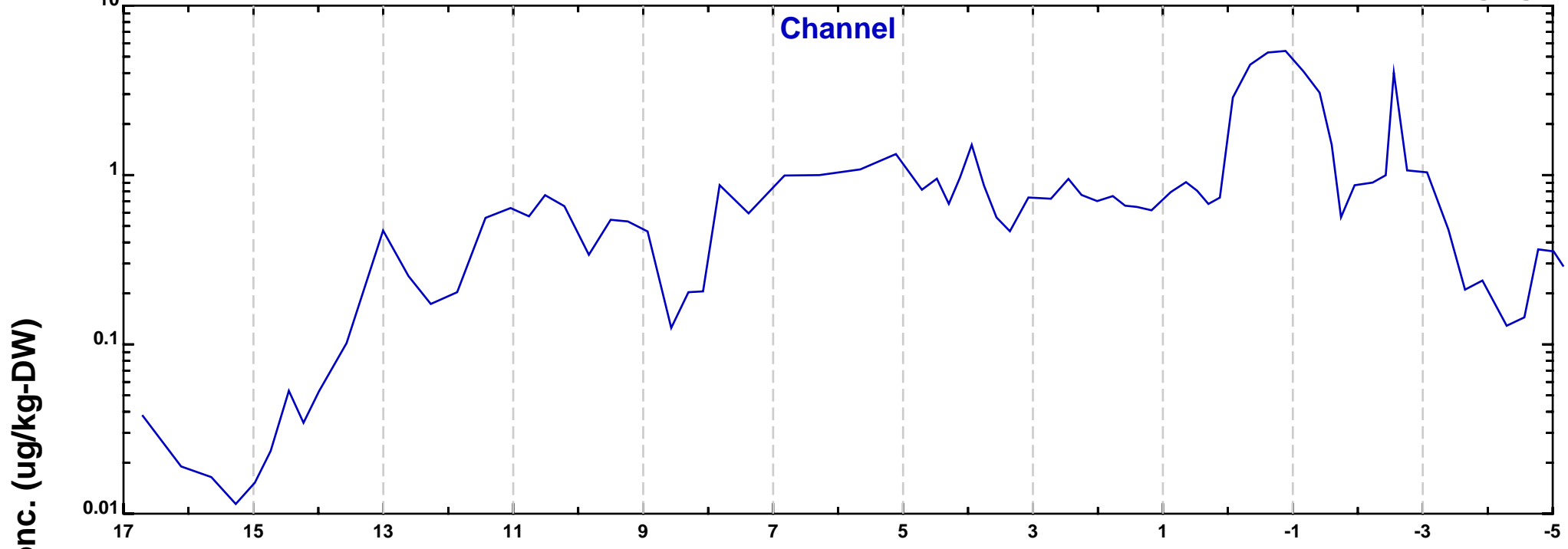
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



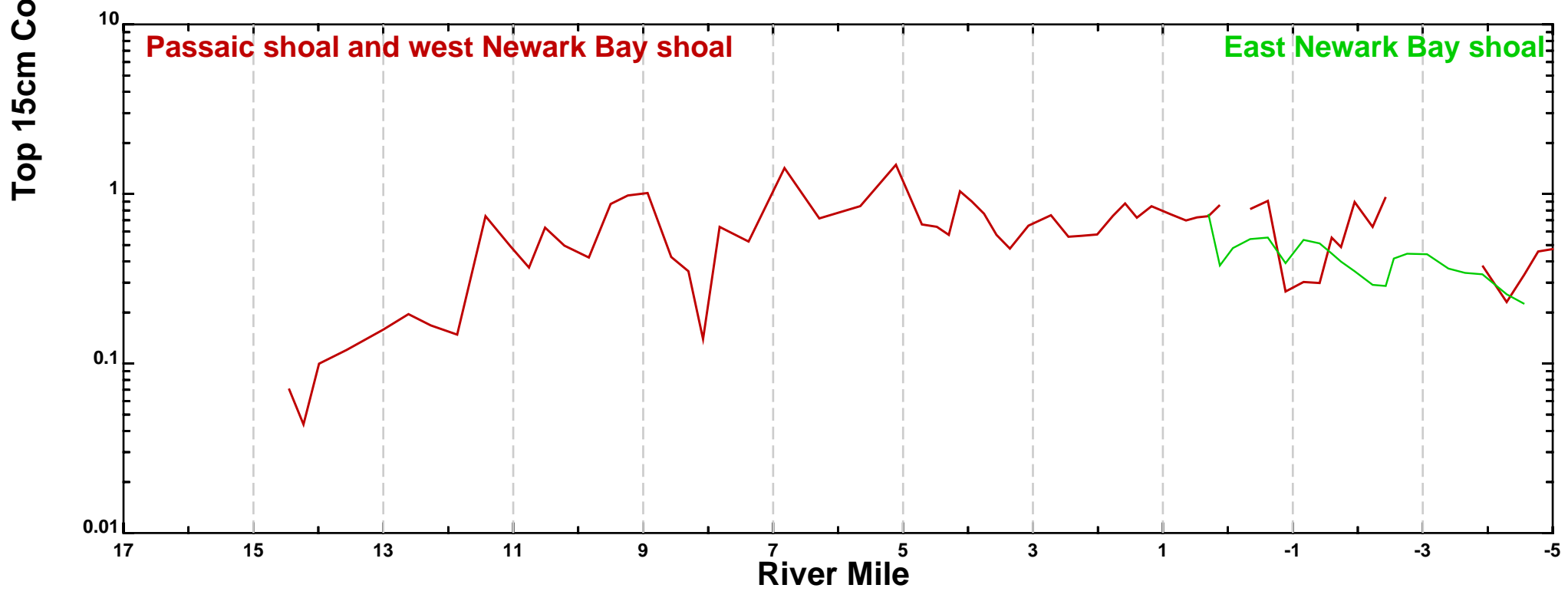
Year =2001.0

BZ#189 (ug/kg)



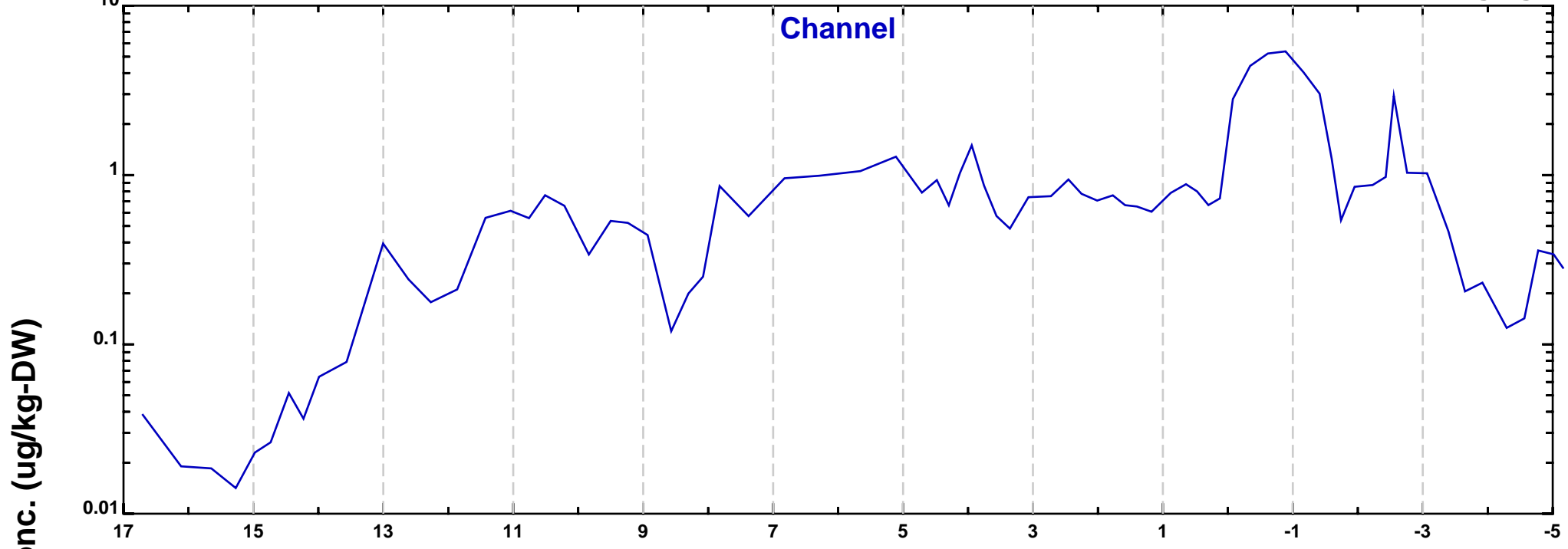
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



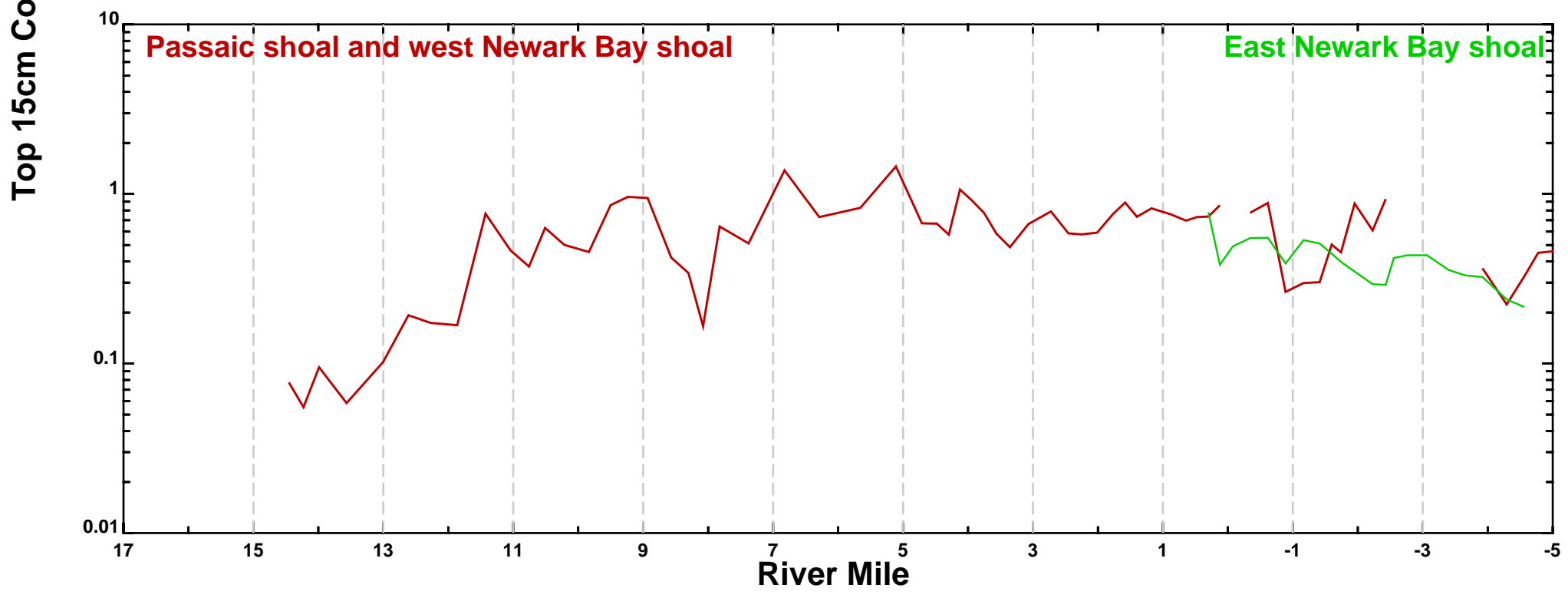
Year =2002.0

BZ#189 (ug/kg)



Passaic shoal and west Newark Bay shoal

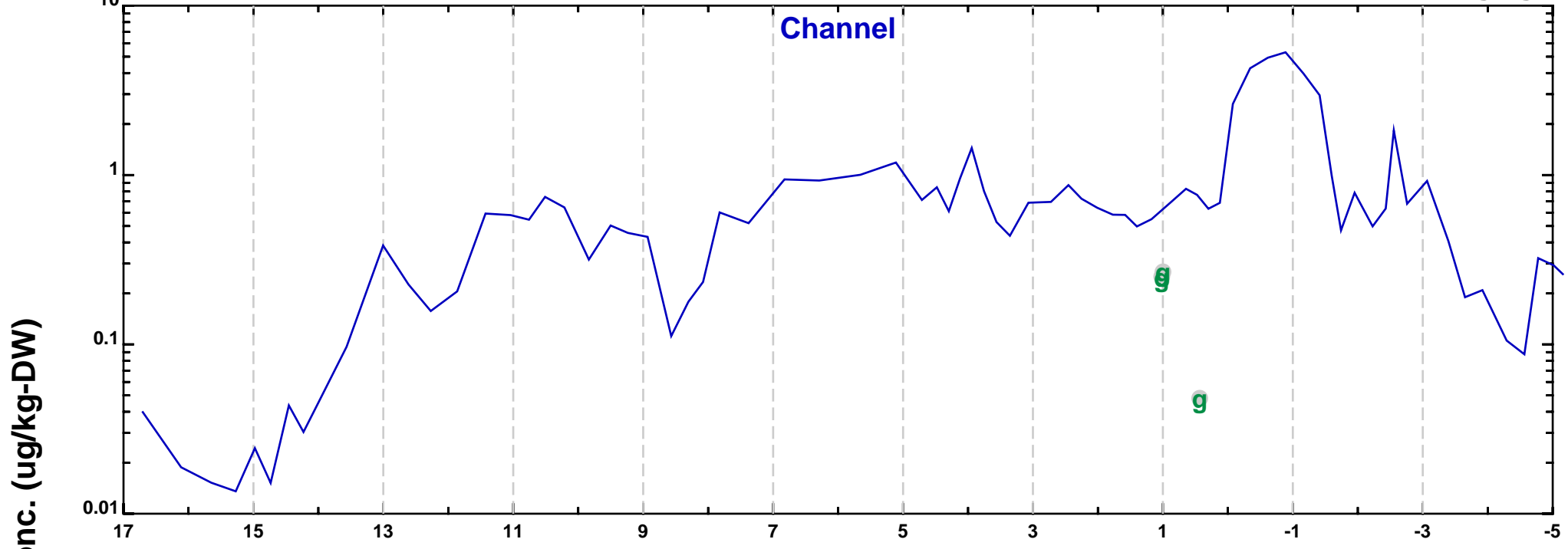
East Newark Bay shoal





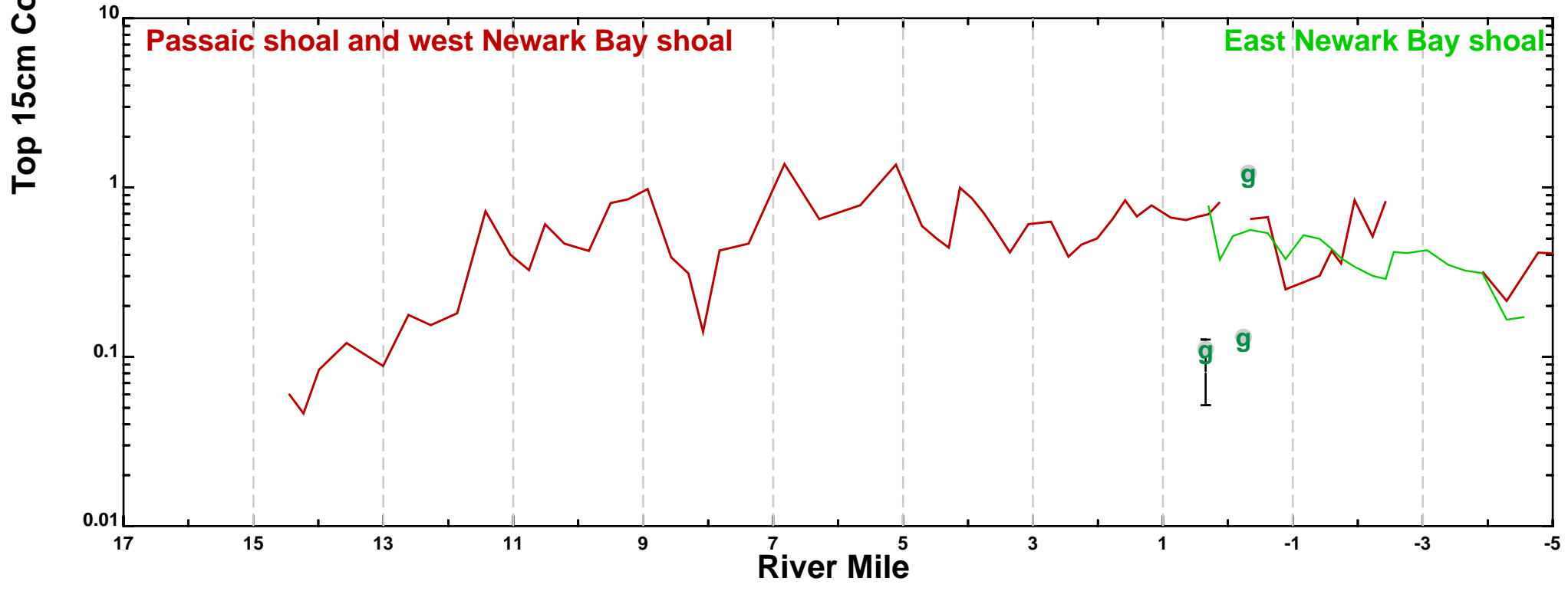
Year =2003.0

BZ#189 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2004.0

BZ#189 (ug/kg)

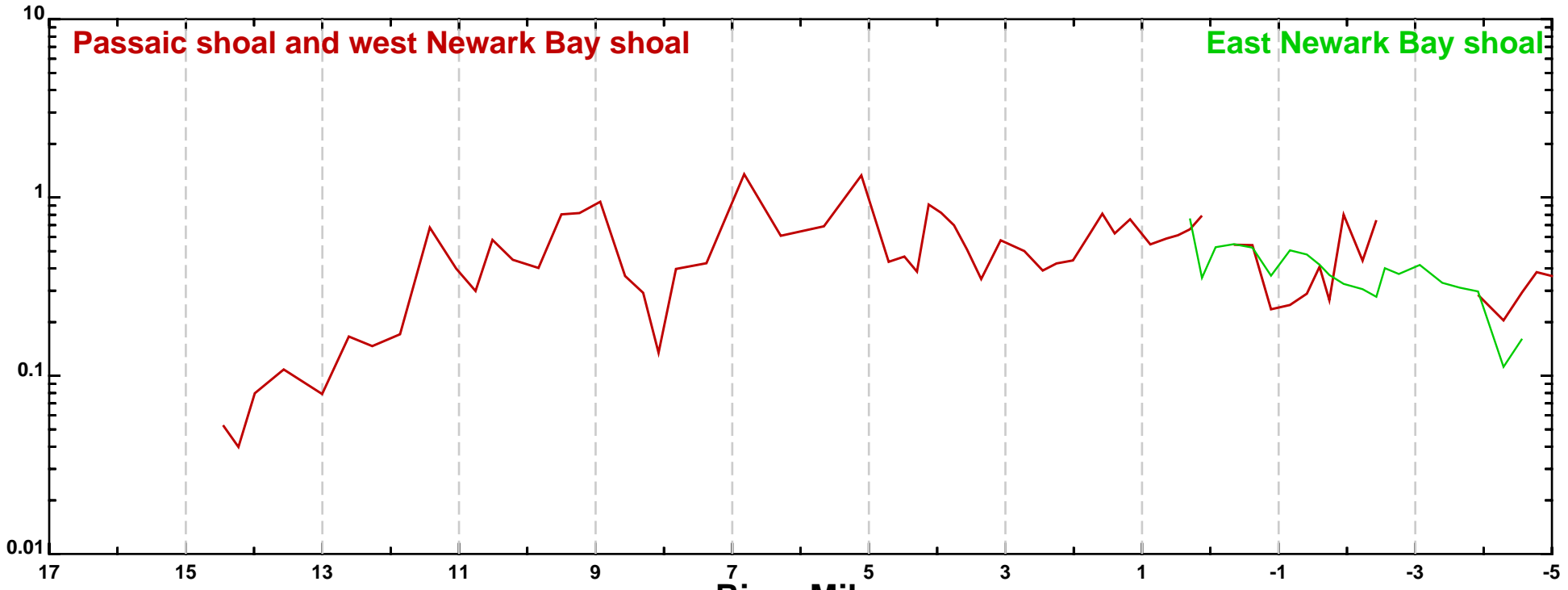
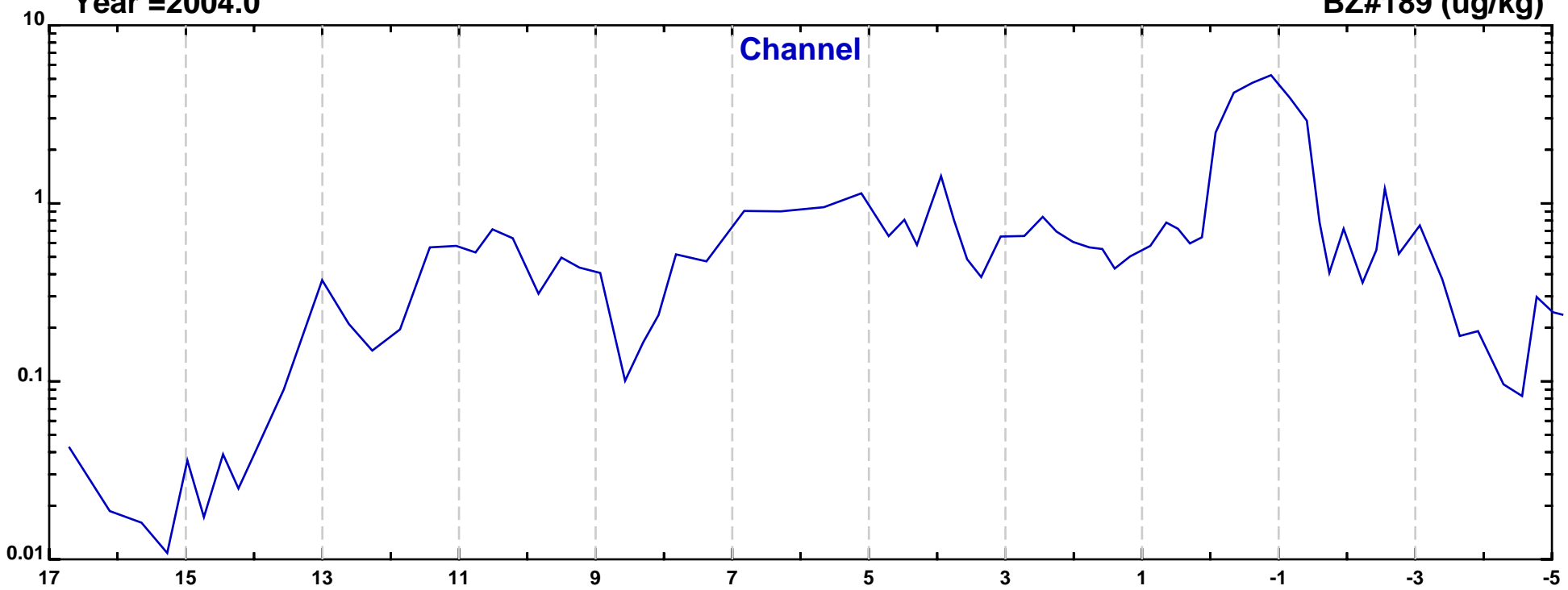
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

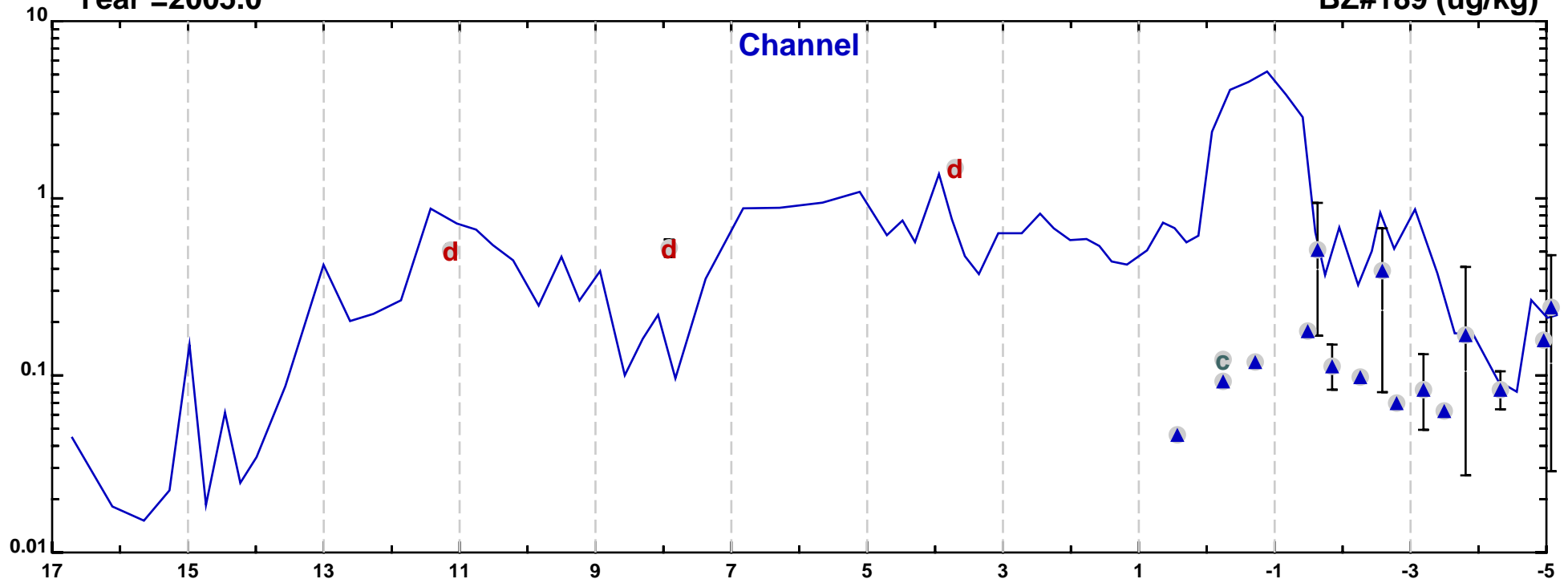


Year =2005.0

BZ#189 (ug/kg)

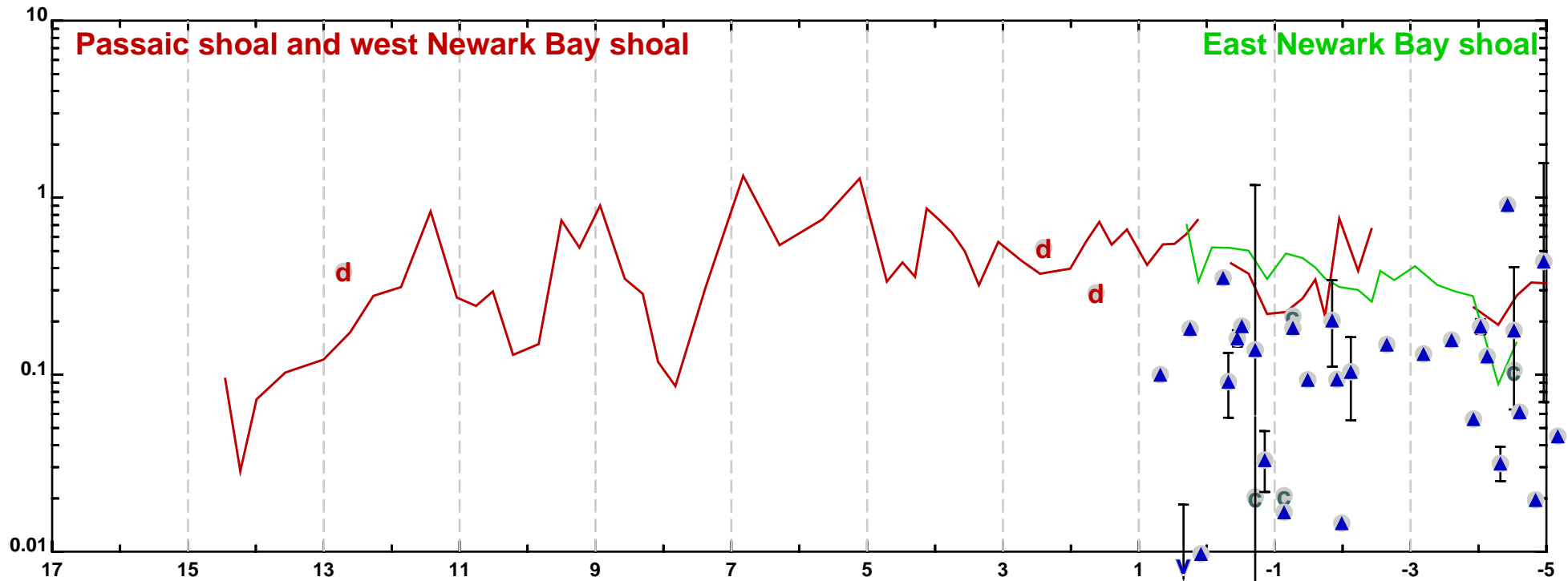
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

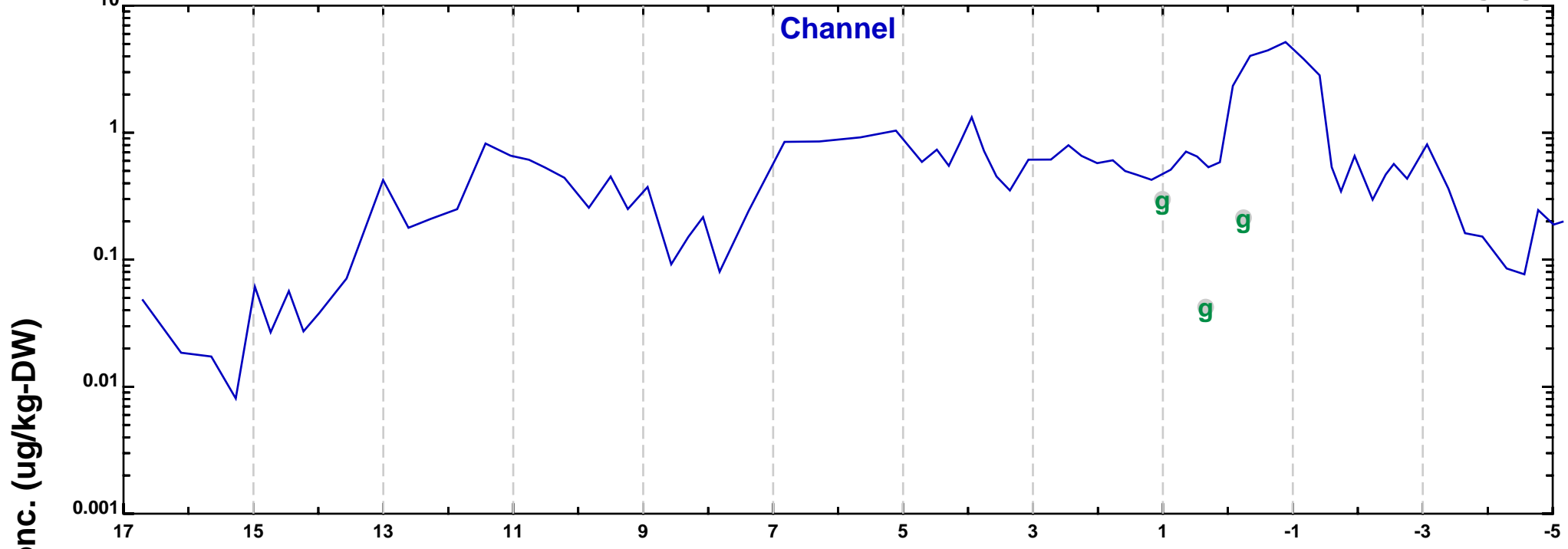
East Newark Bay shoal



River Mile

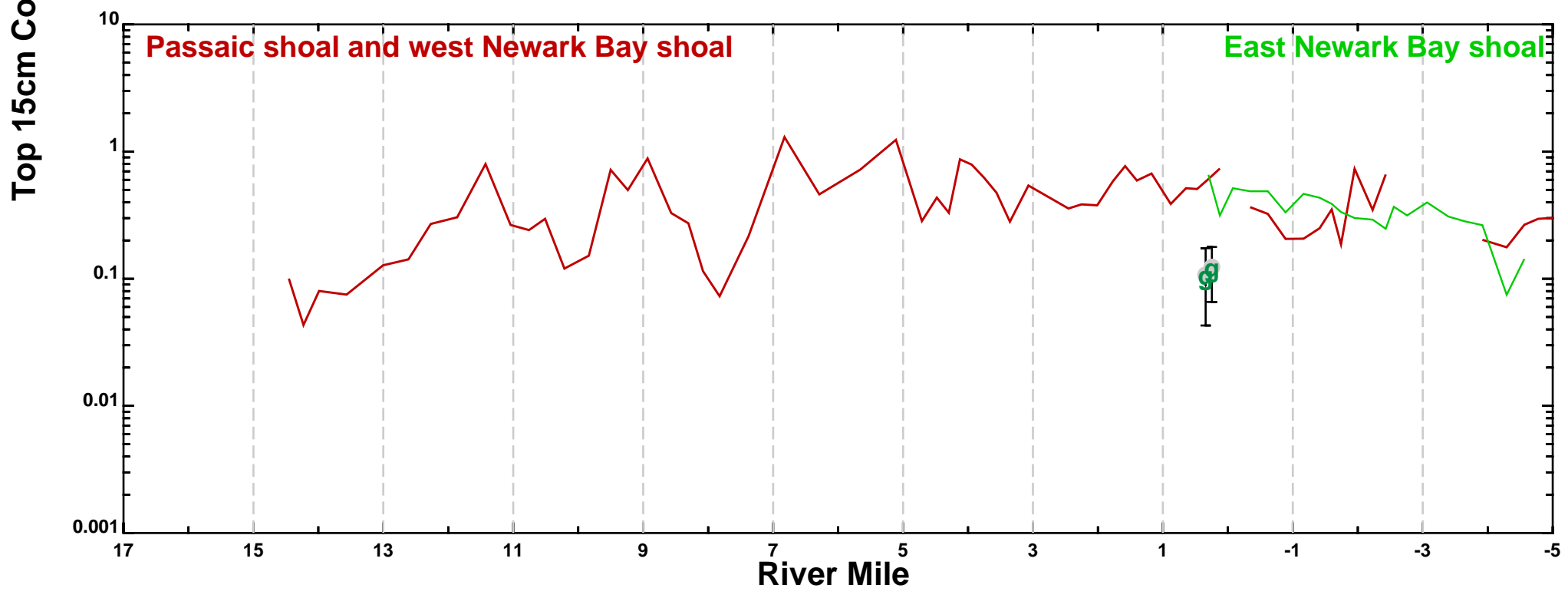
Year =2006.0

BZ#189 (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



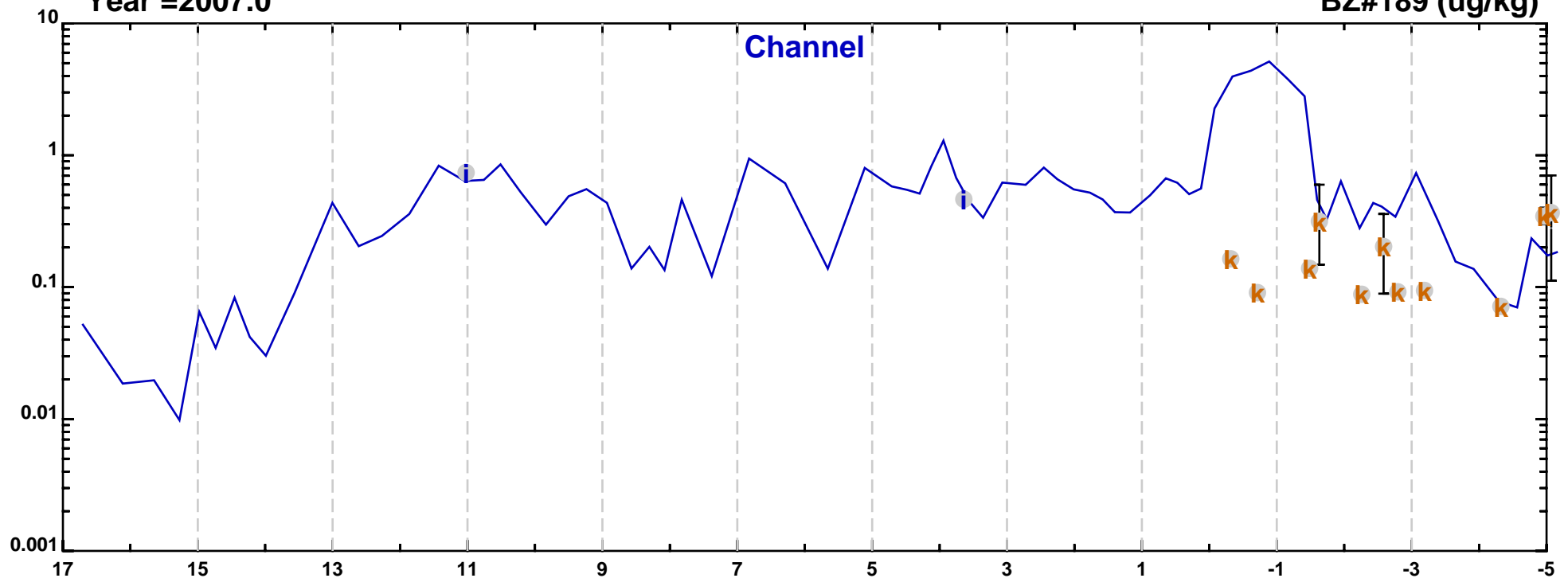
River Mile

Year =2007.0

BZ#189 (ug/kg)

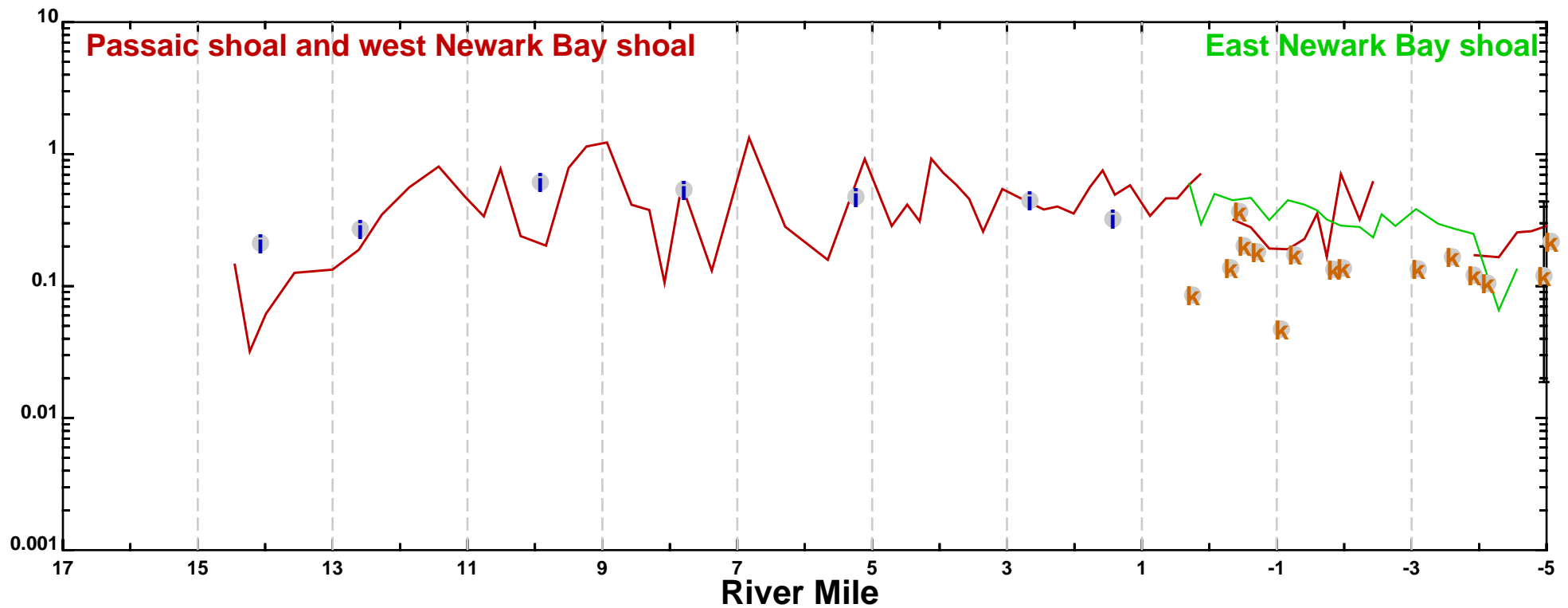
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



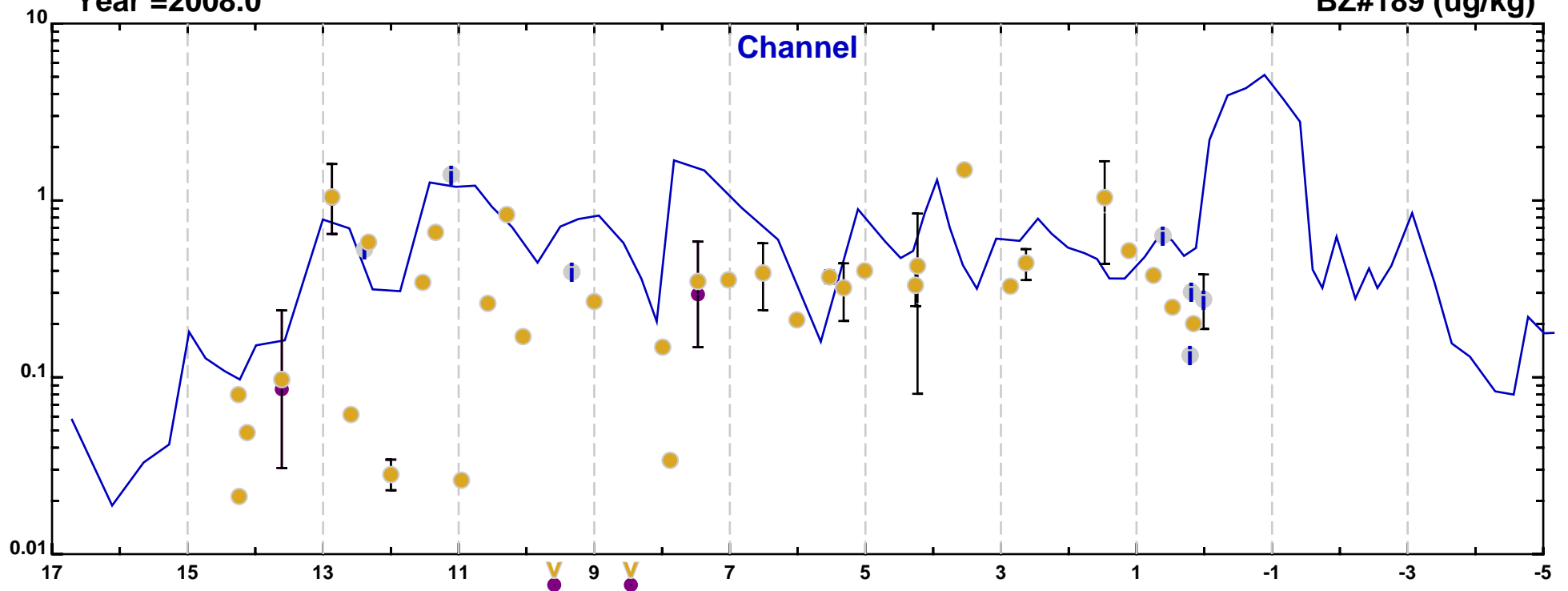
River Mile

Year =2008.0

BZ#189 (ug/kg)

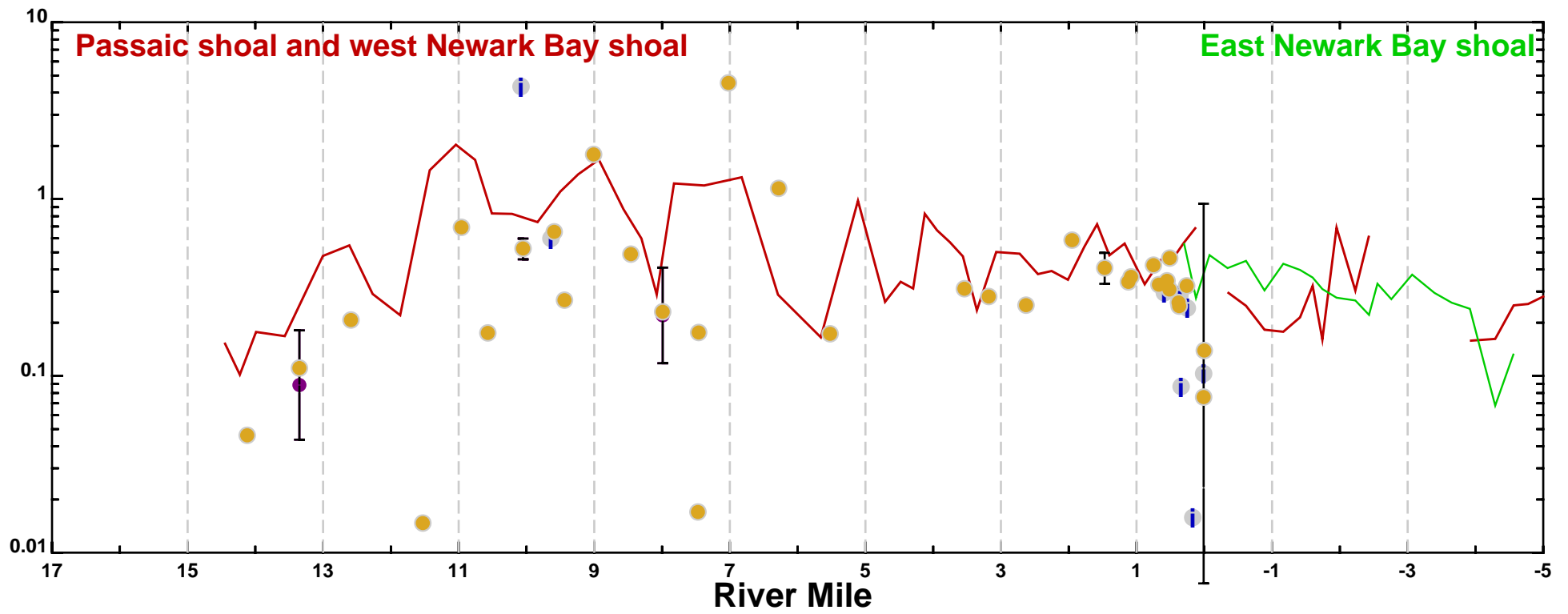
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2009.0

BZ#189 (ug/kg)

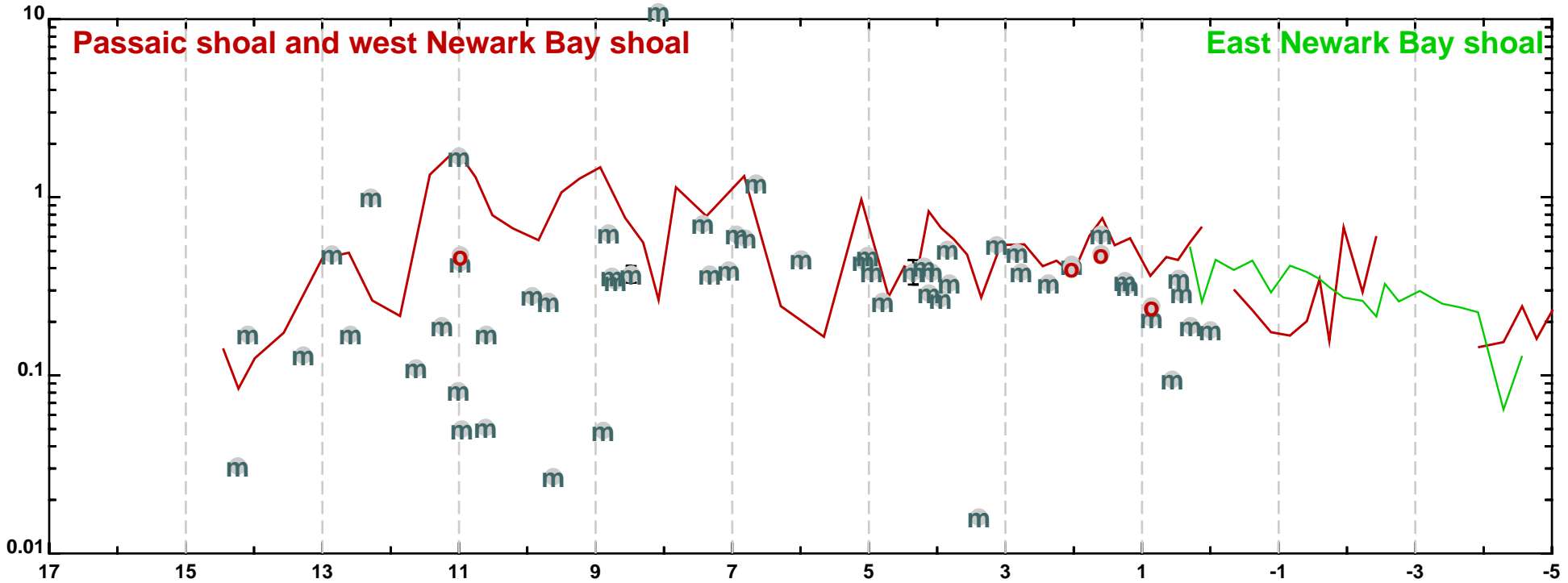
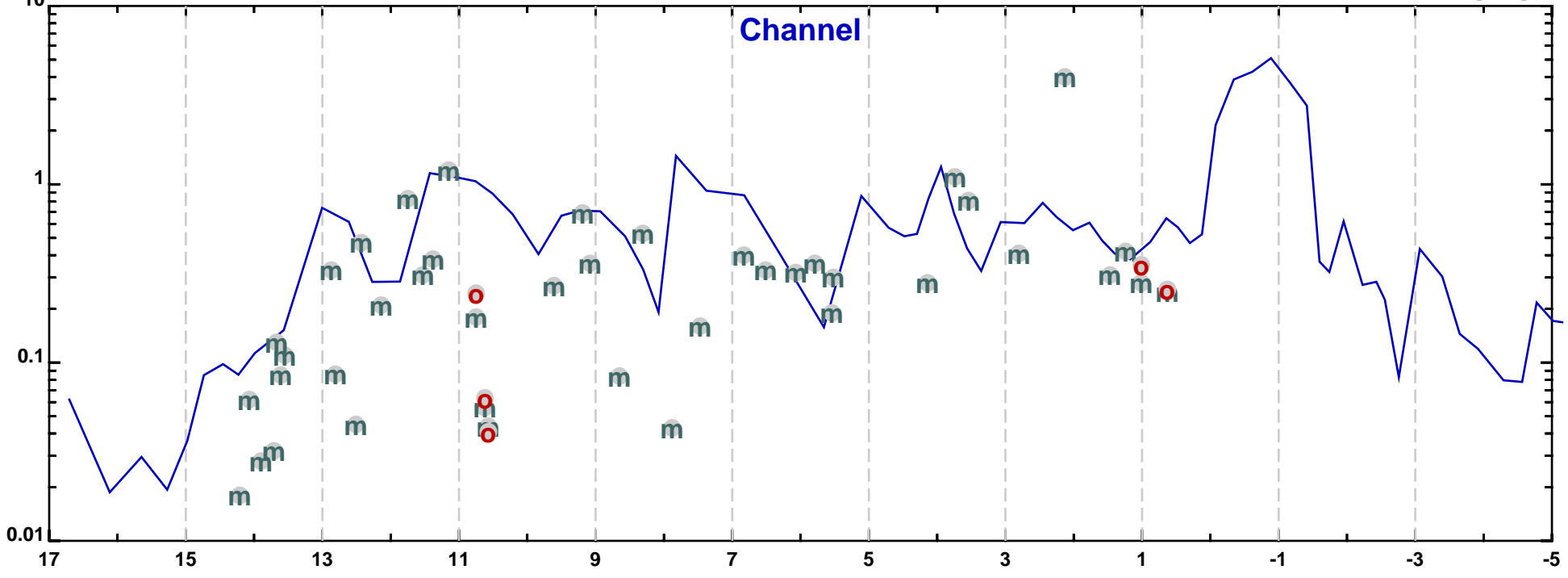
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

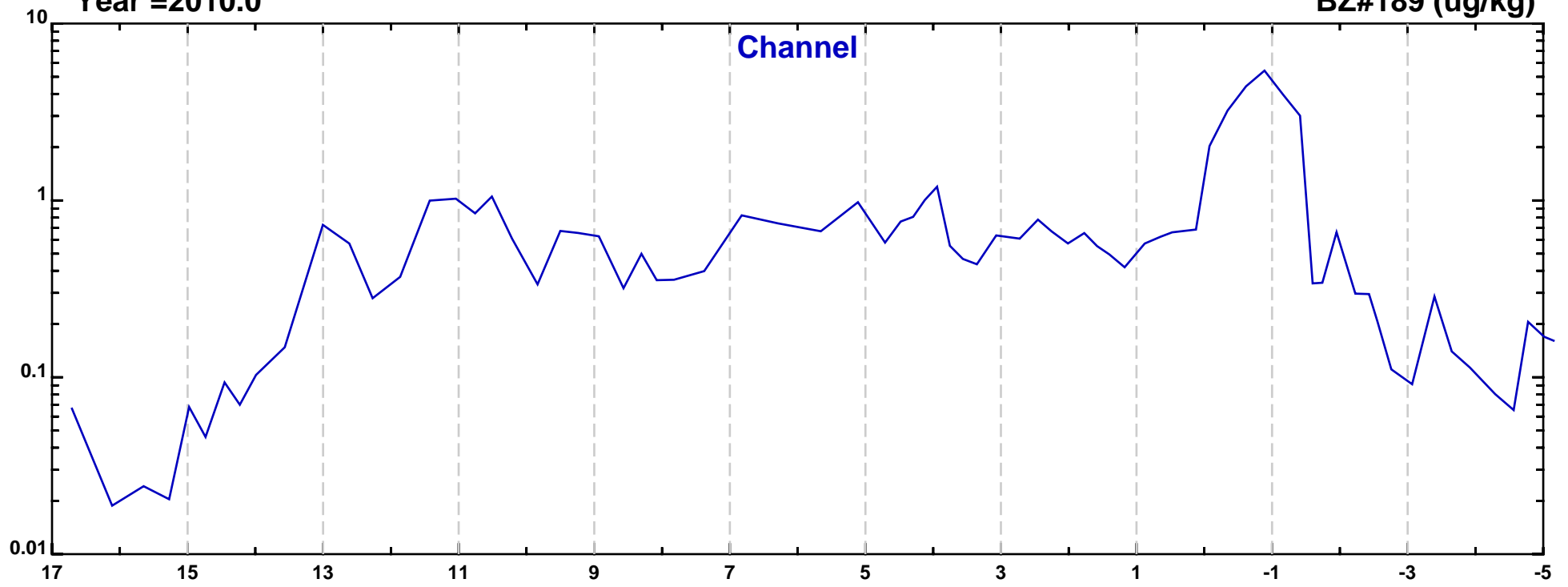


Year =2010.0

BZ#189 (ug/kg)

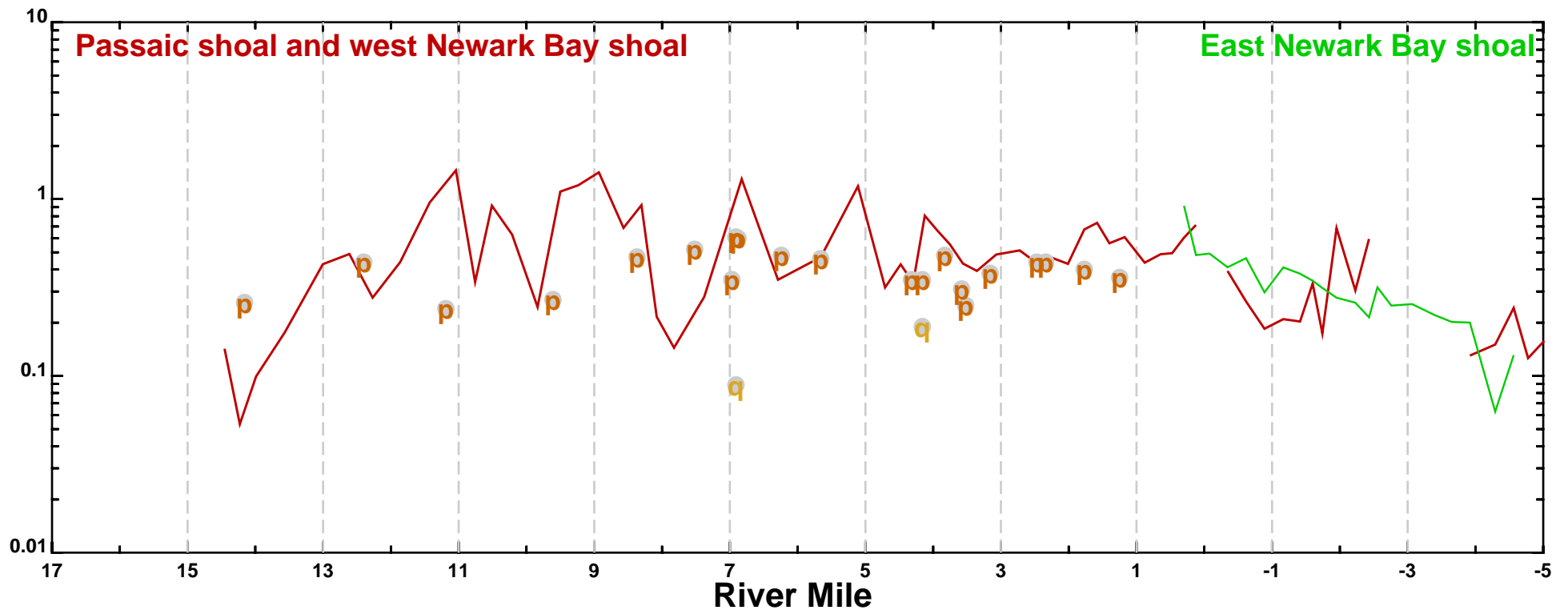
Top 15cm Conc. (ug/kg-DW)

Channel

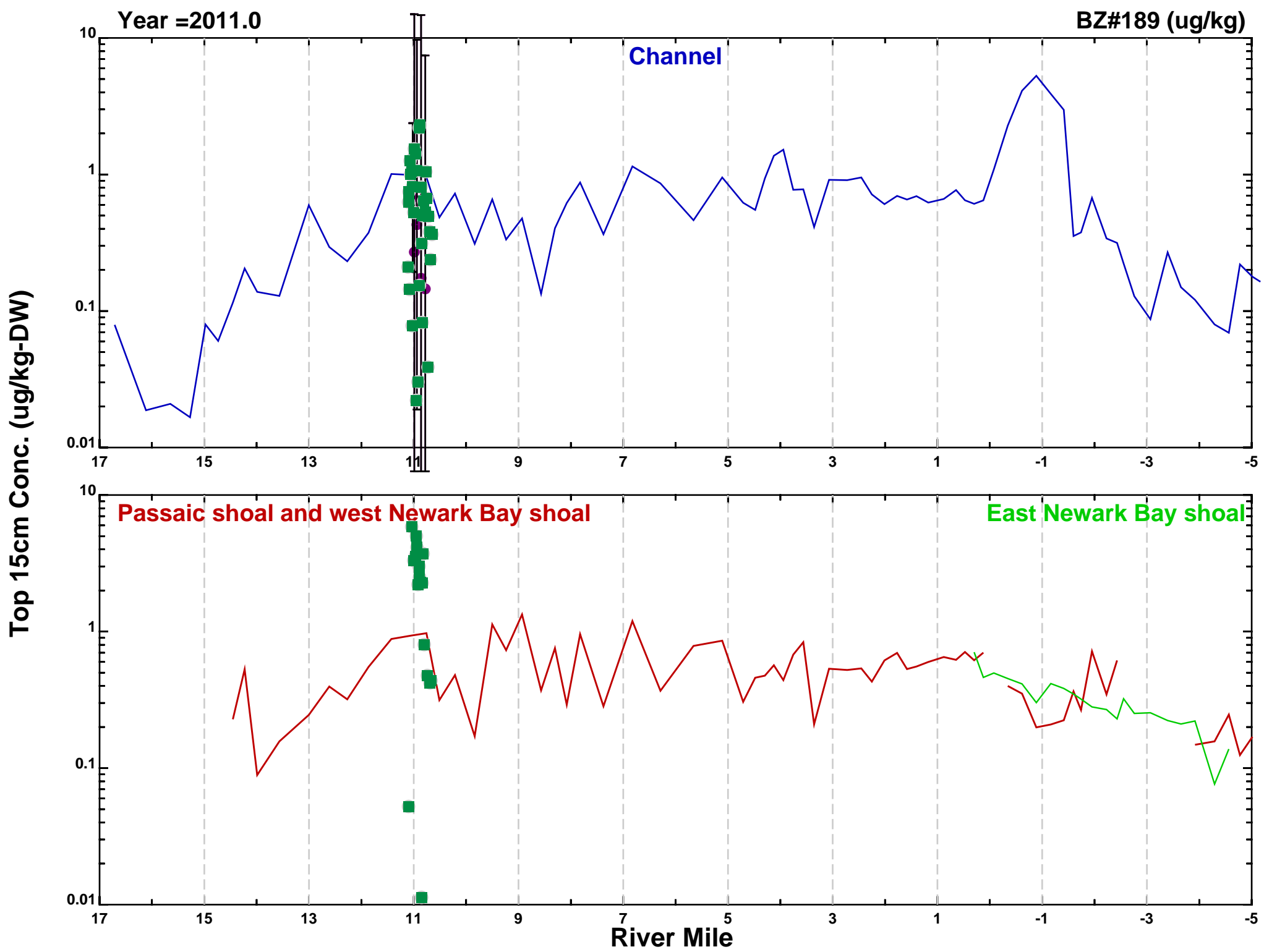


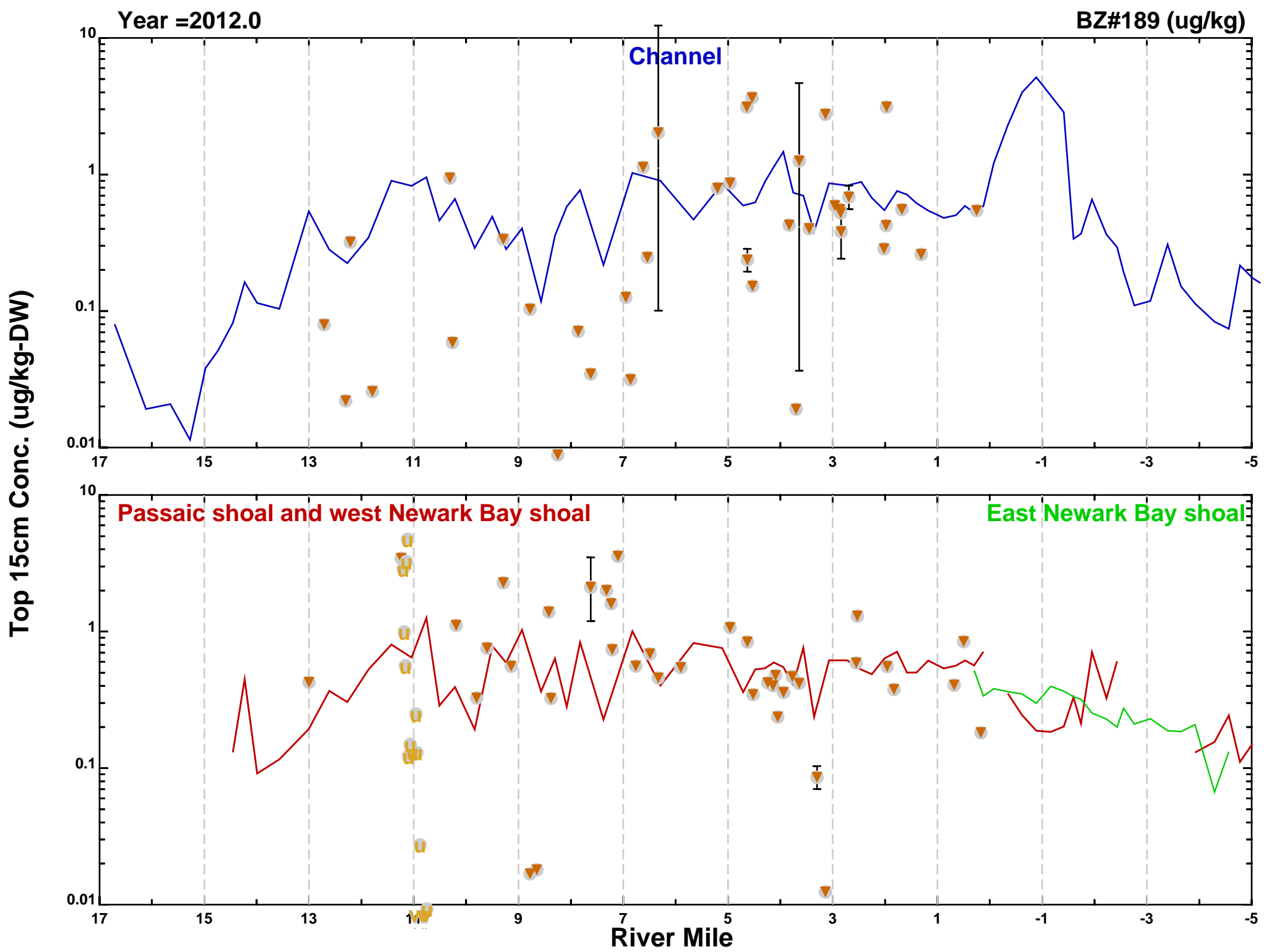
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal







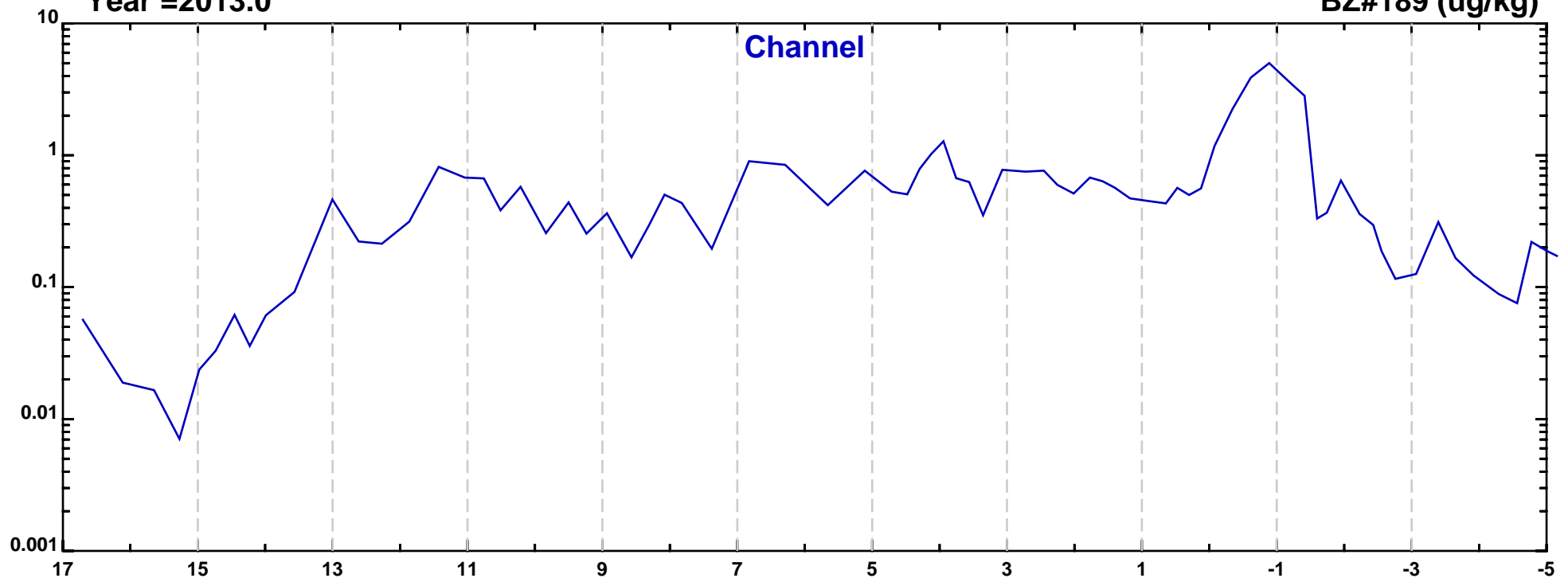


Year =2013.0

BZ#189 (ug/kg)

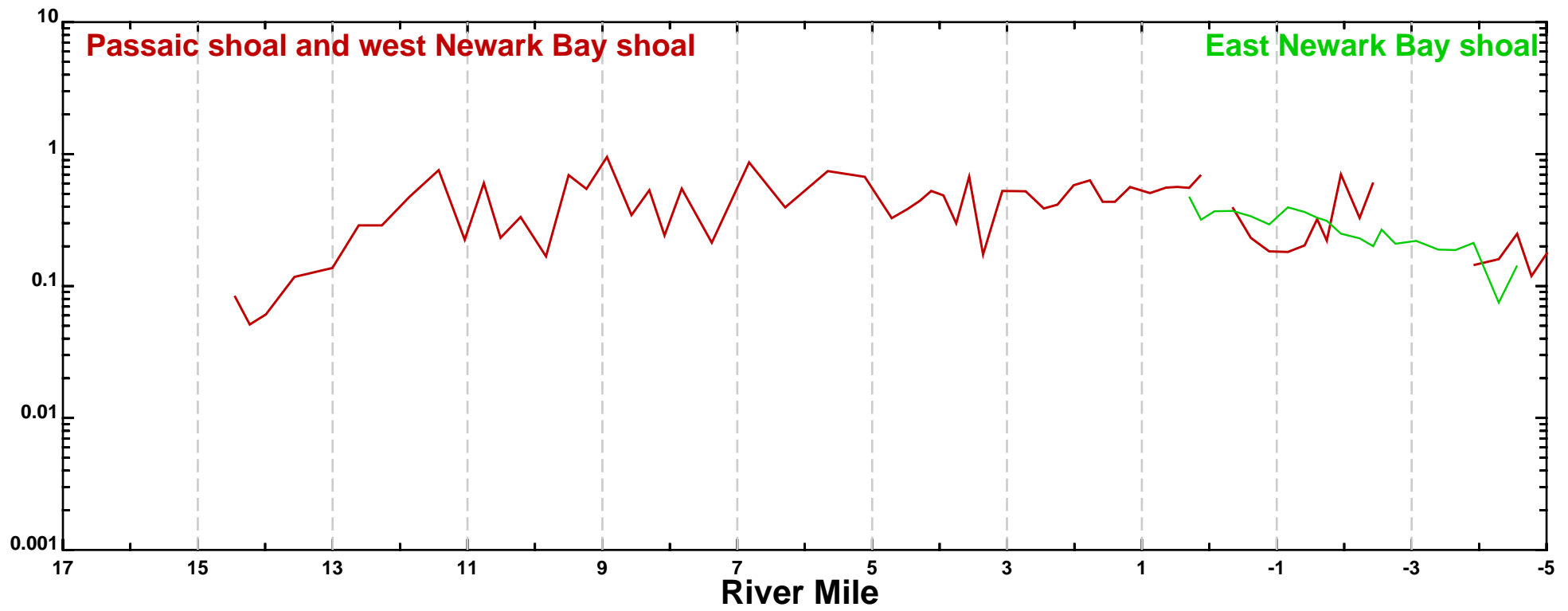
Top 15cm Conc. (ug/kg-DW)

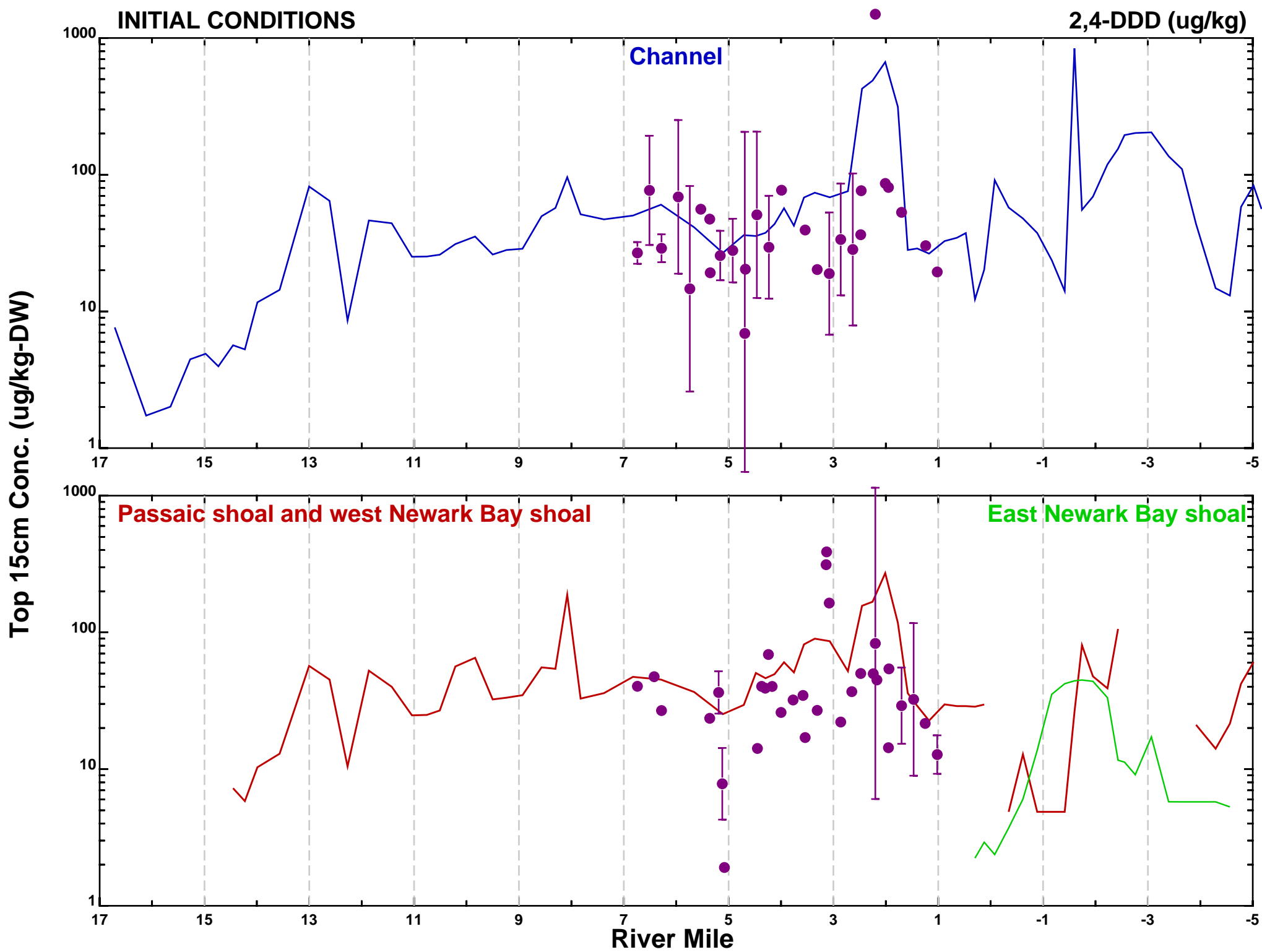
Channel



Passaic shoal and west Newark Bay shoal

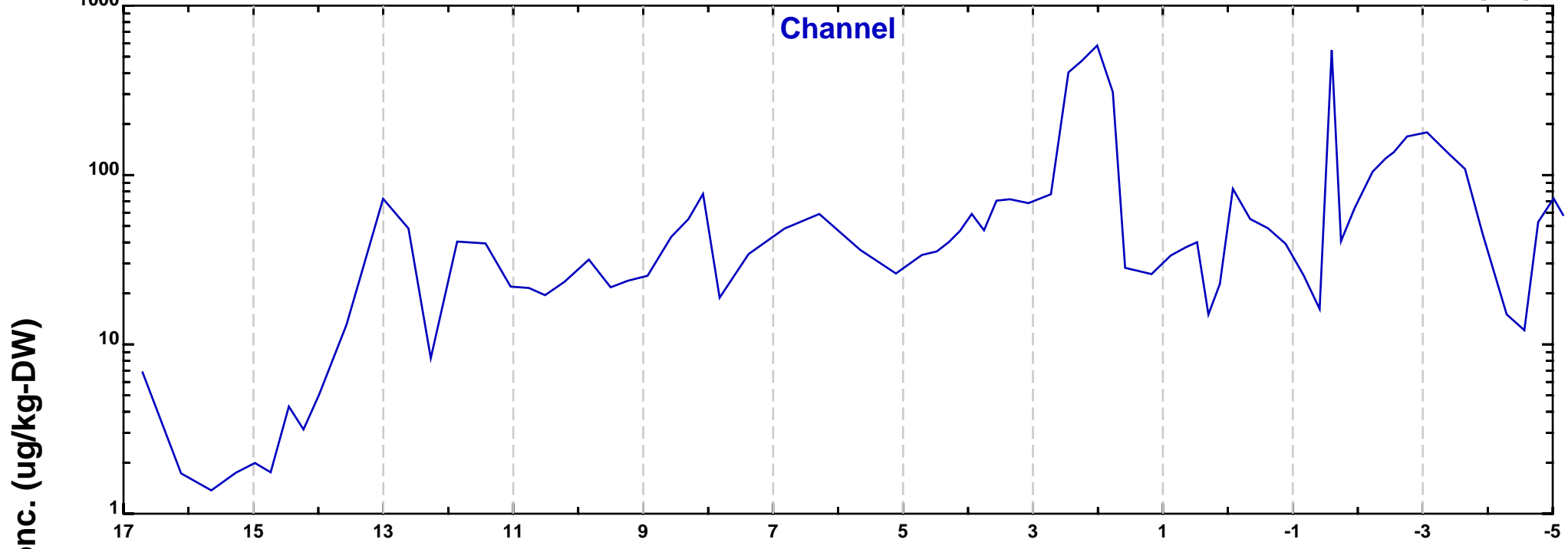
East Newark Bay shoal





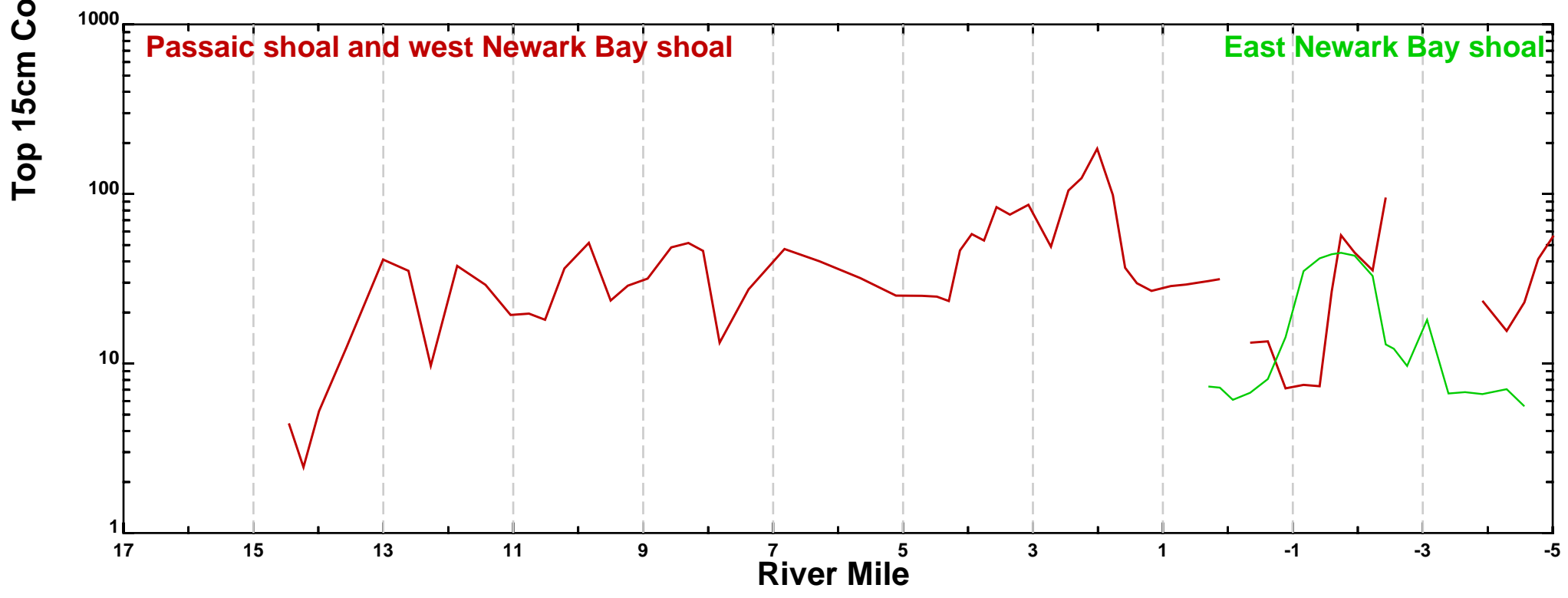
Year = 1996.0

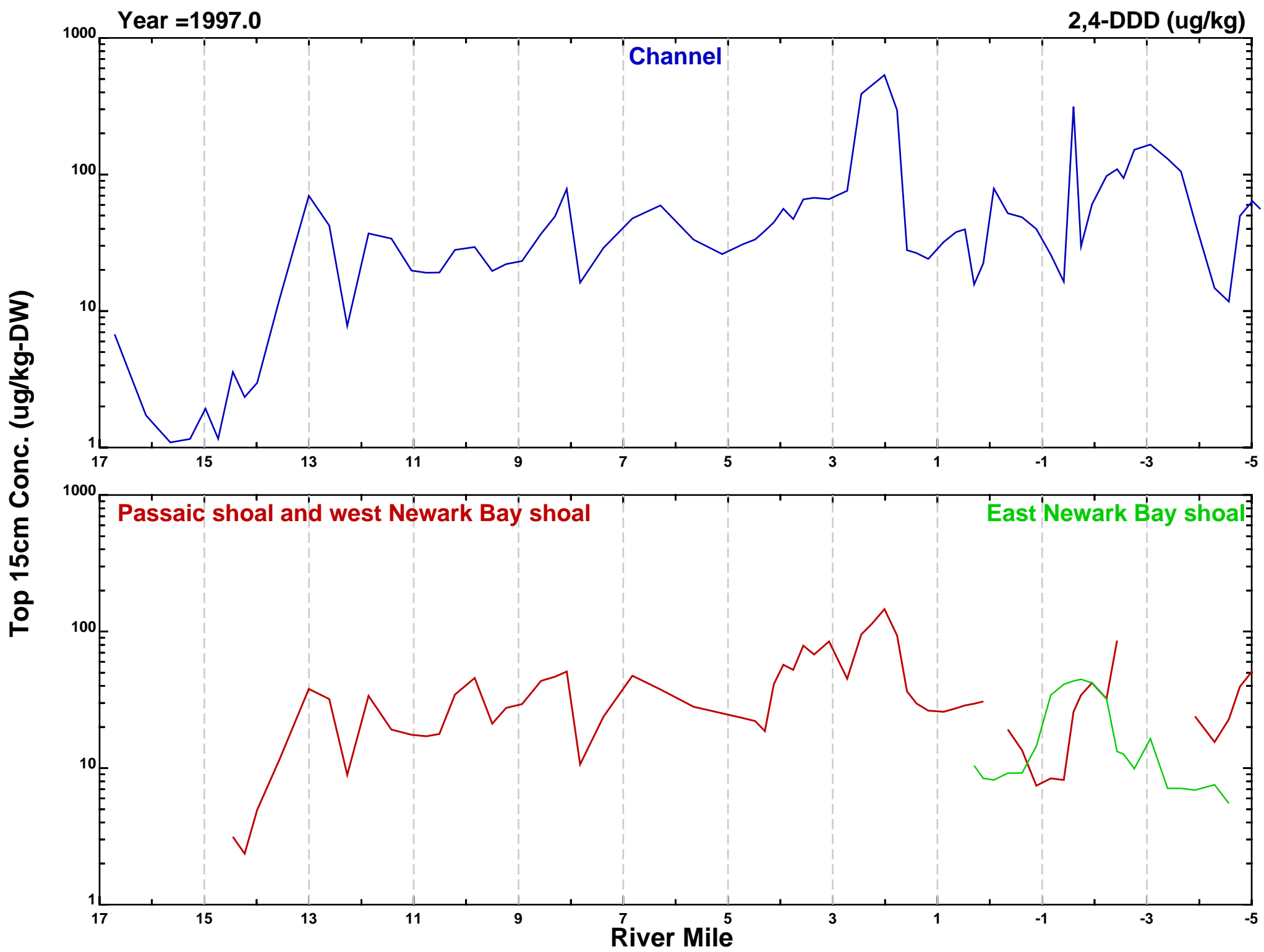
2,4-DDD (ug/kg)

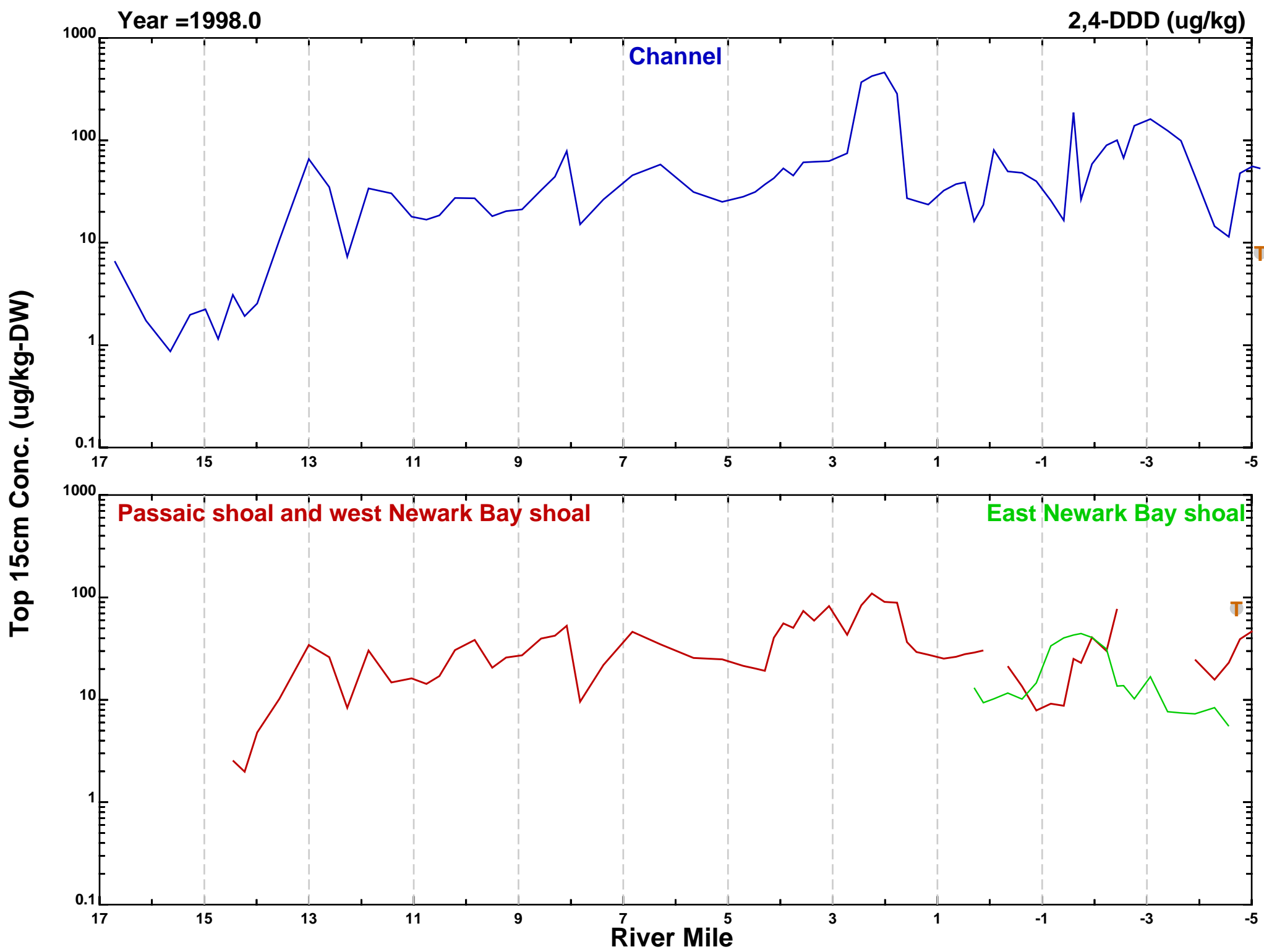


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

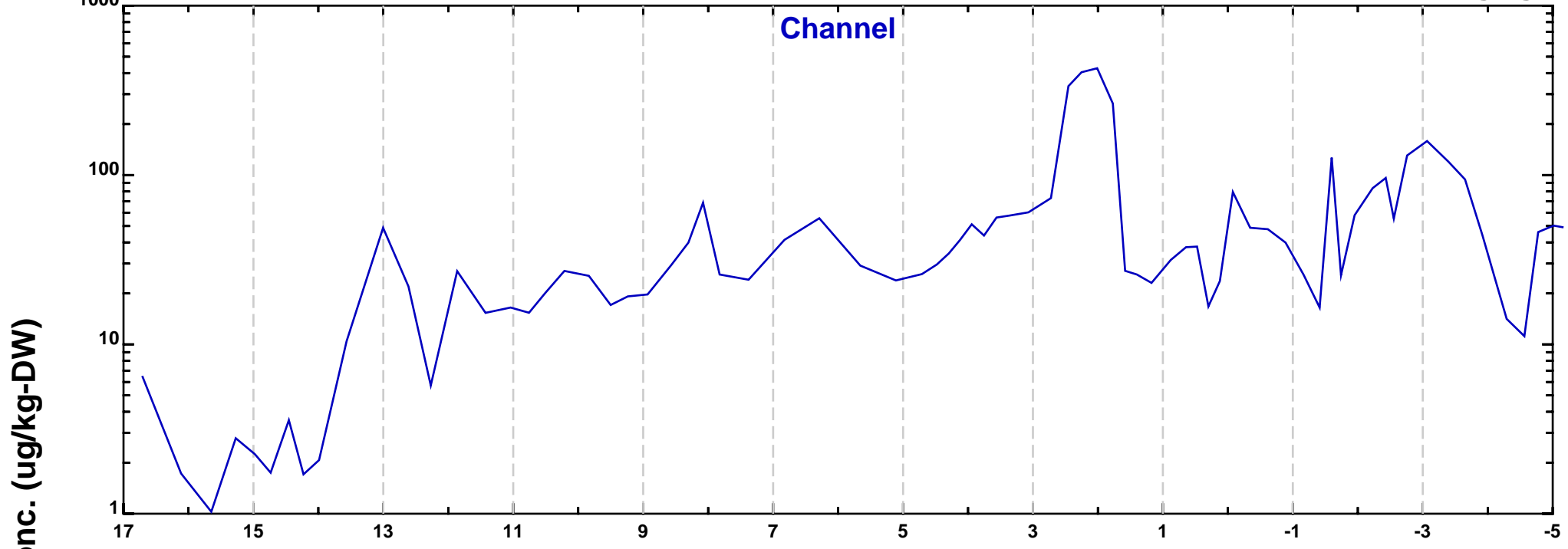






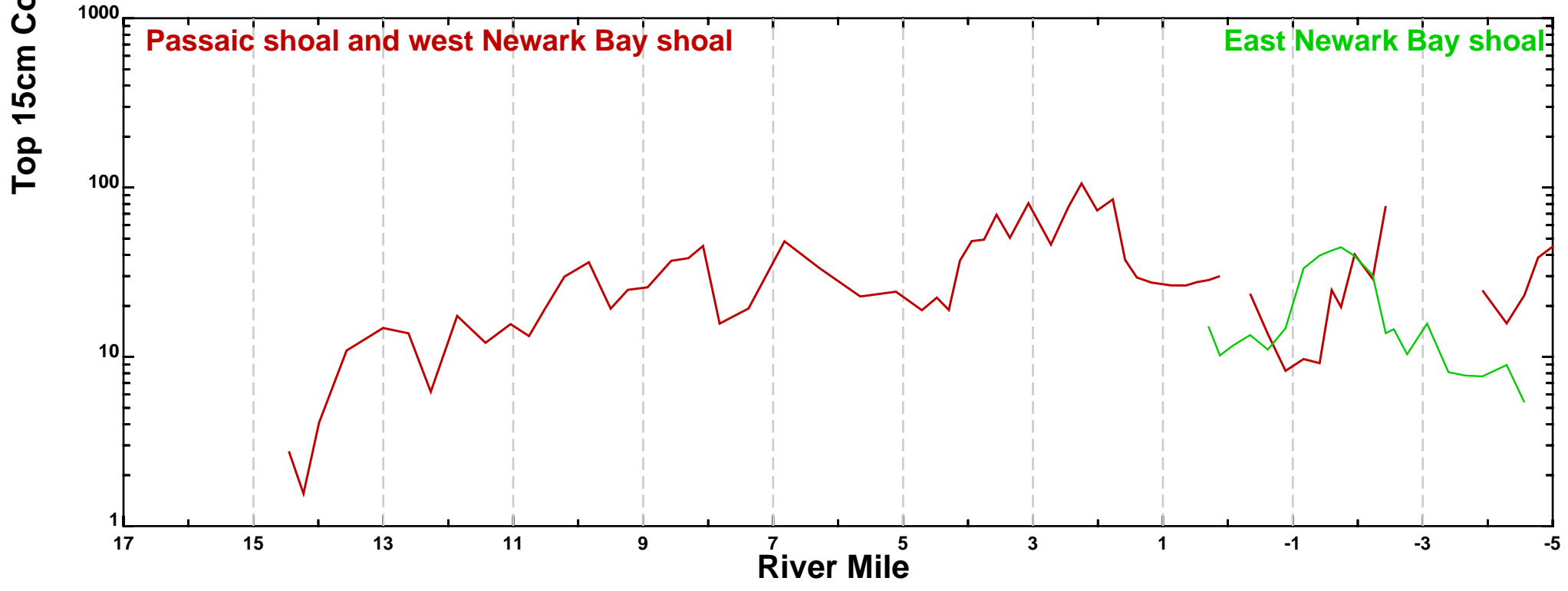
Year = 1999.0

2,4-DDD (ug/kg)



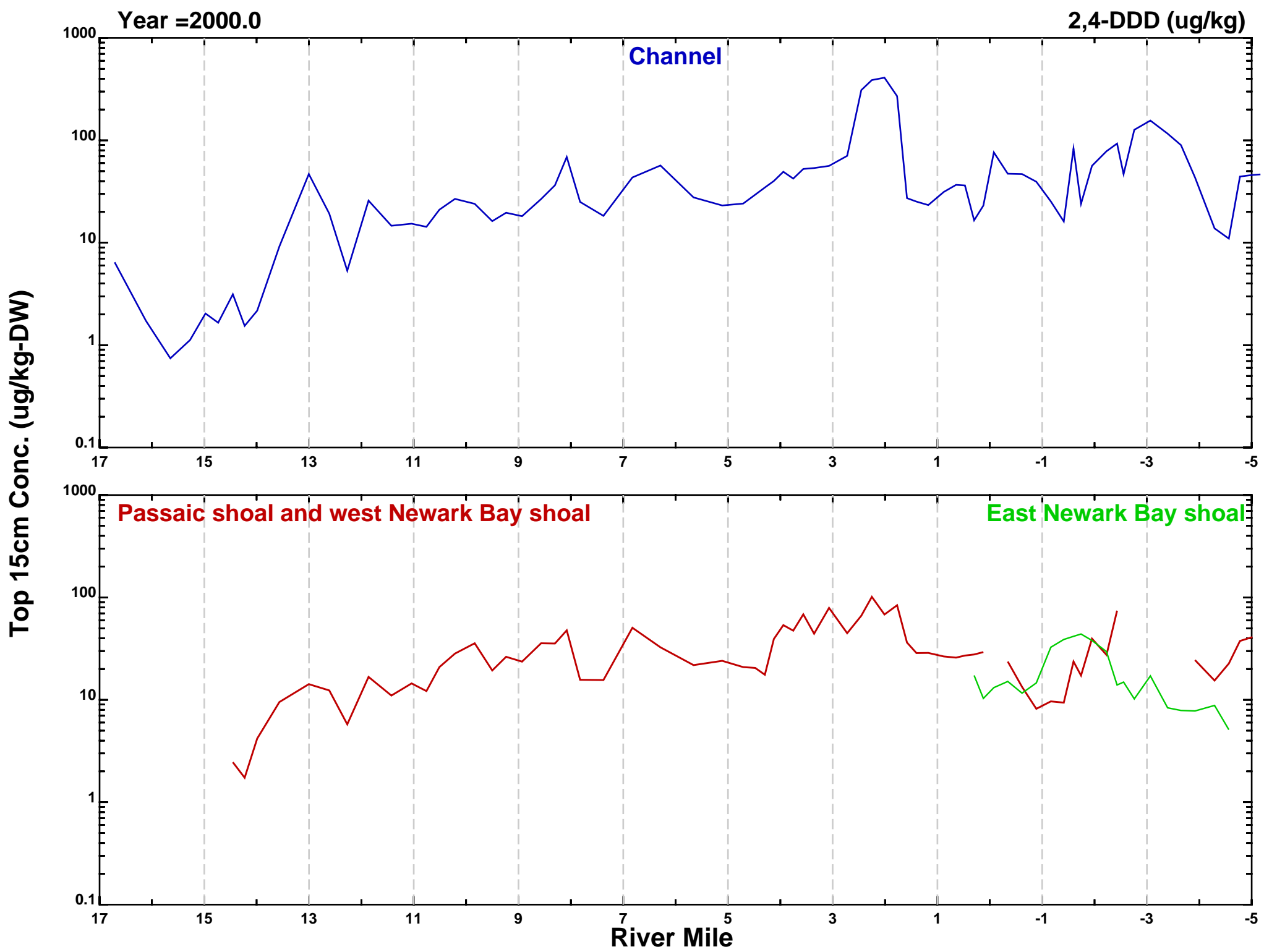
Passaic shoal and west Newark Bay shoal

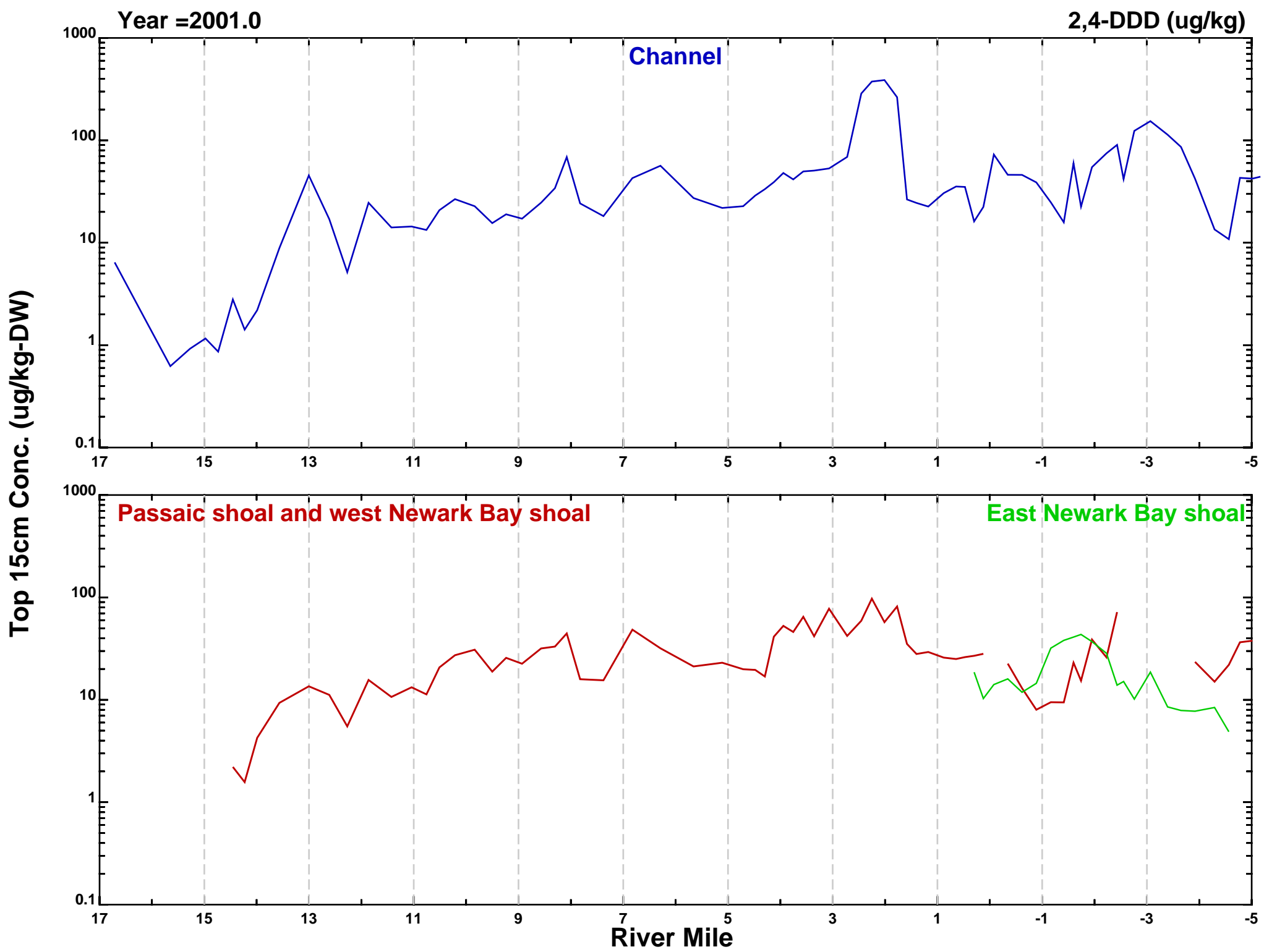
East Newark Bay shoal



River Mile

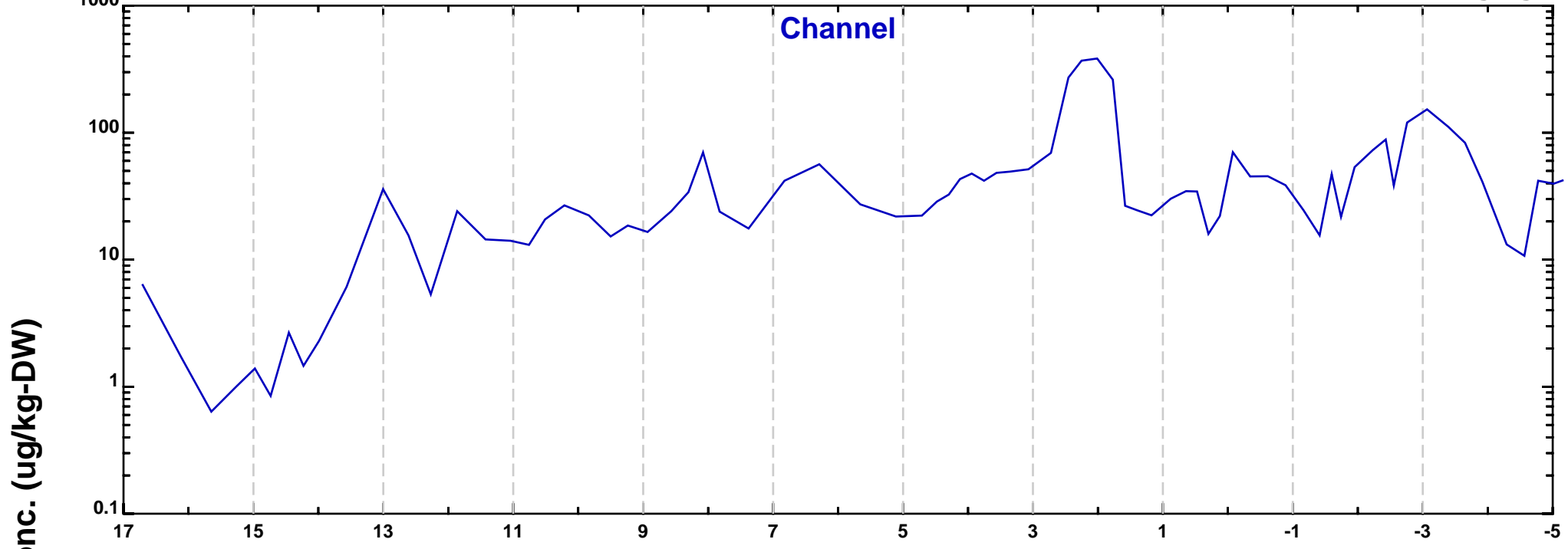






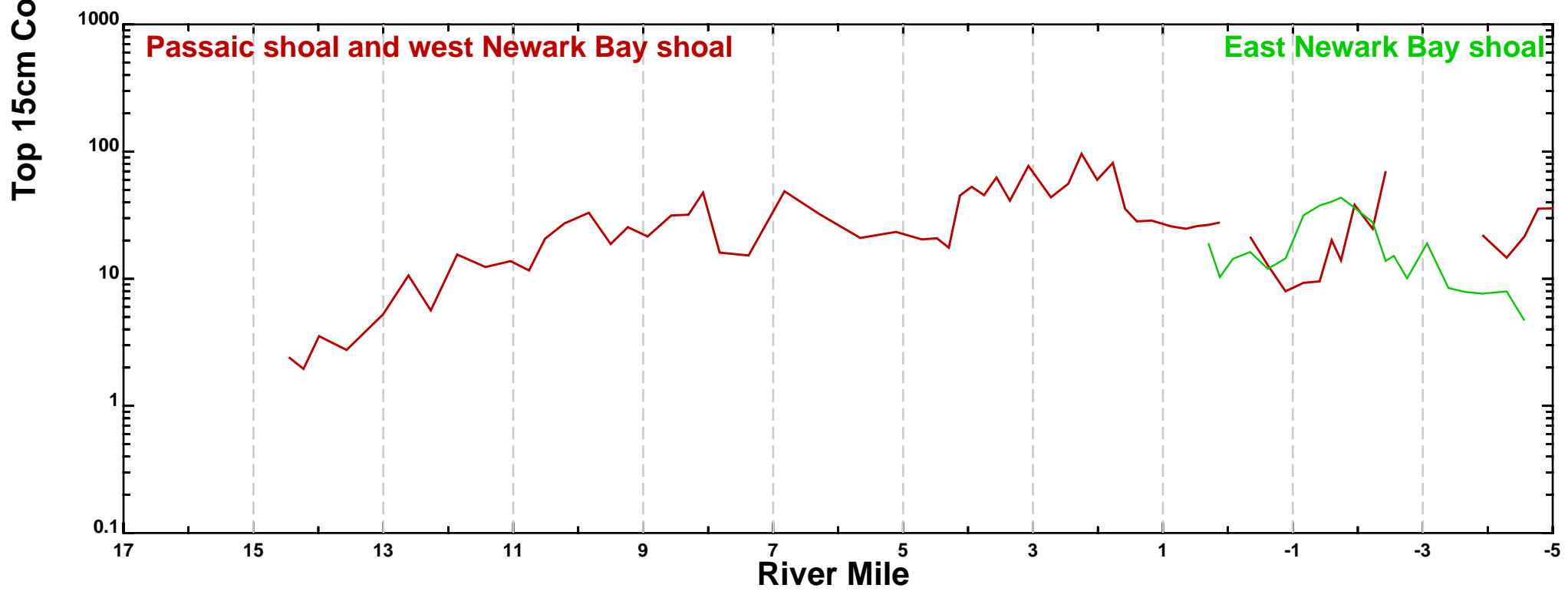
Year =2002.0

2,4-DDD (ug/kg)

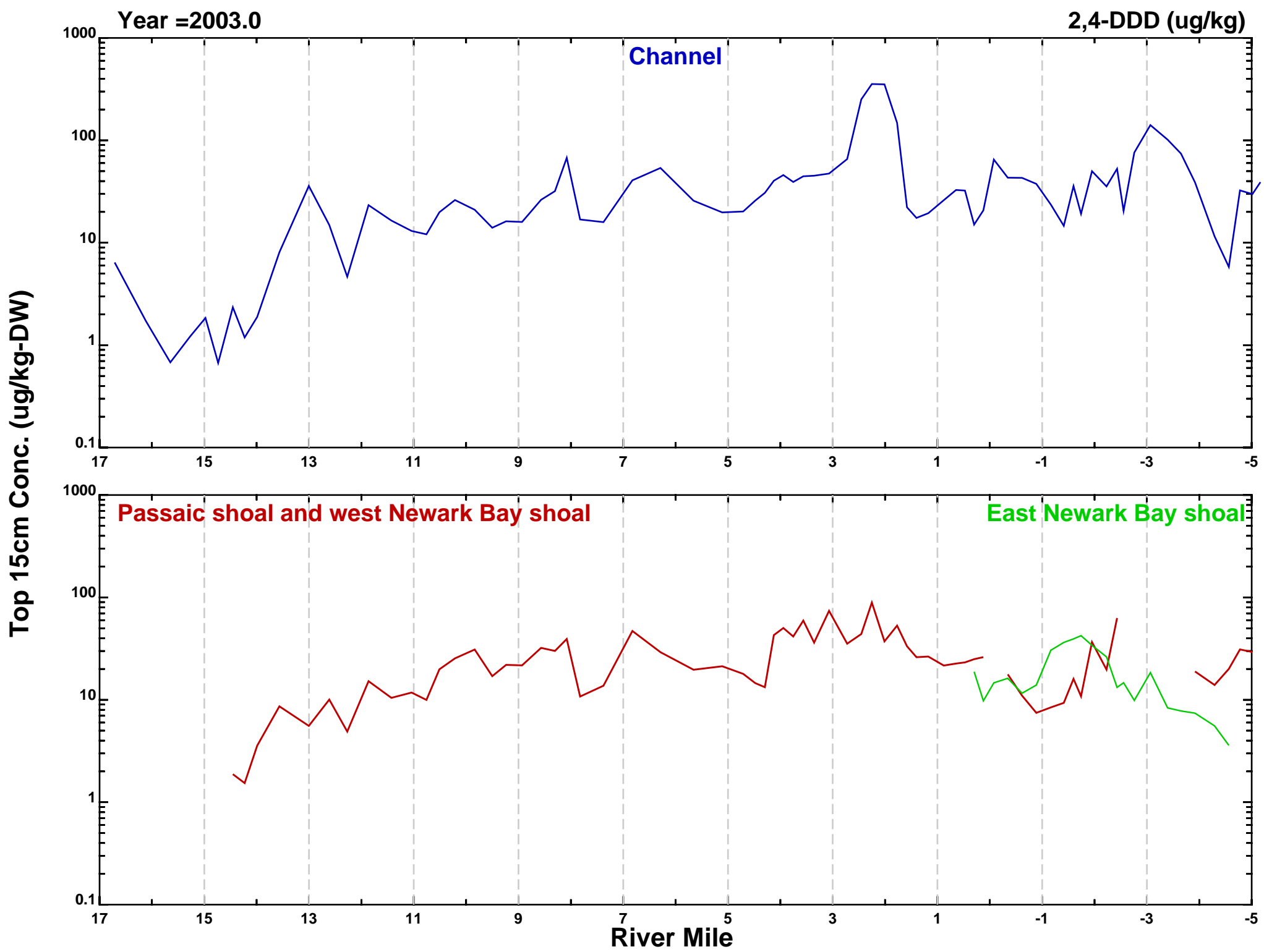


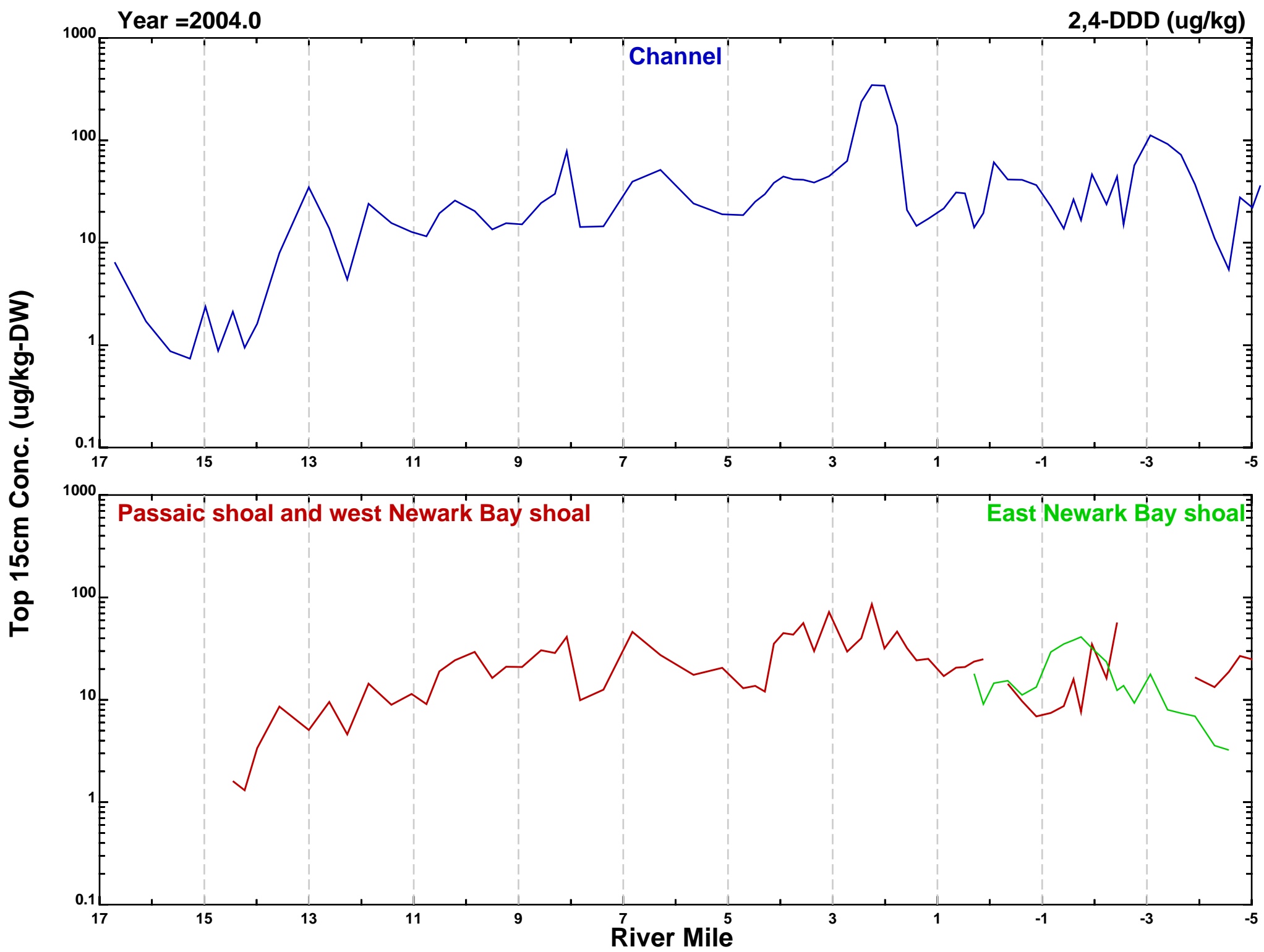
Passaic shoal and west Newark Bay shoal

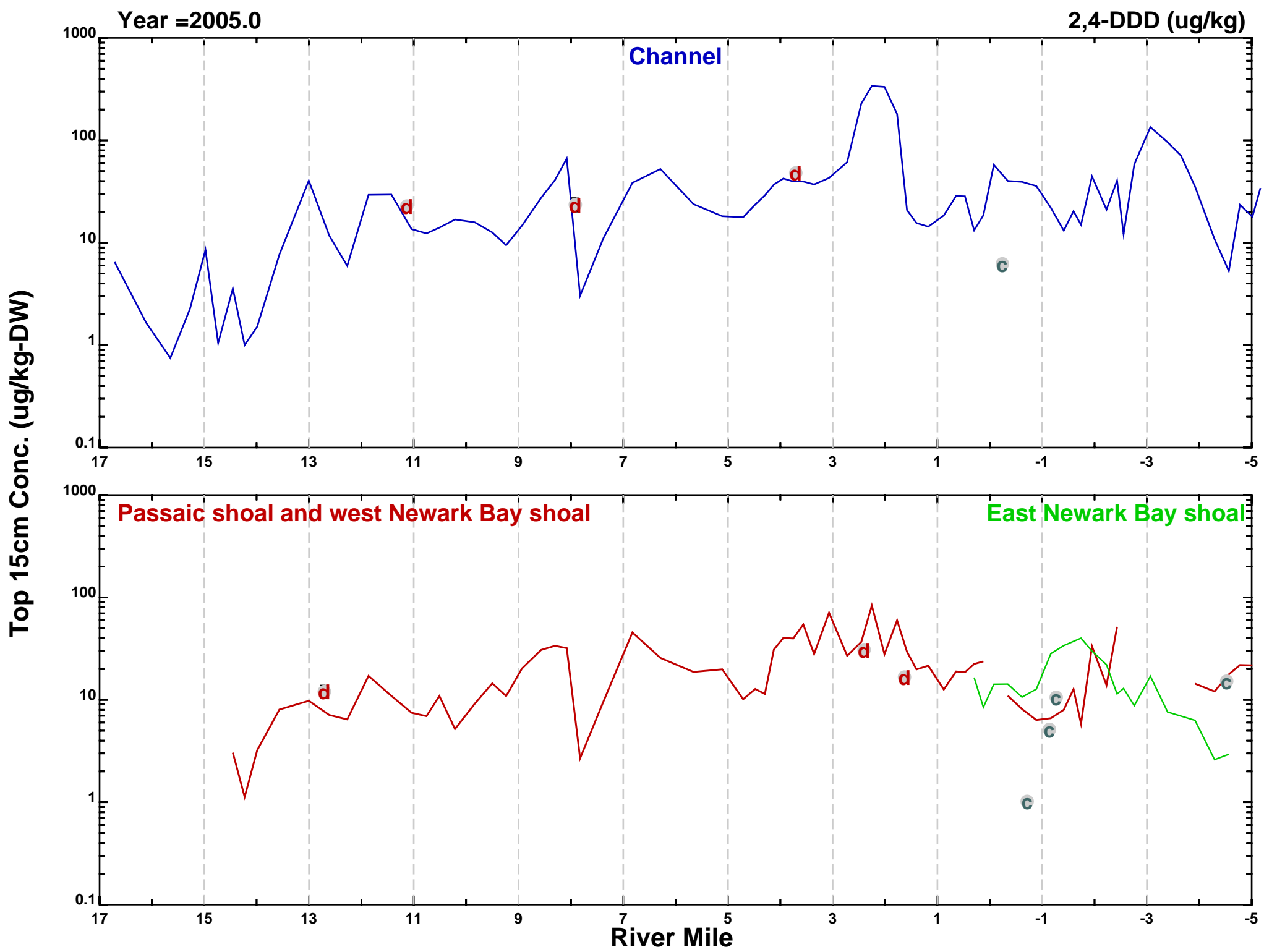
East Newark Bay shoal

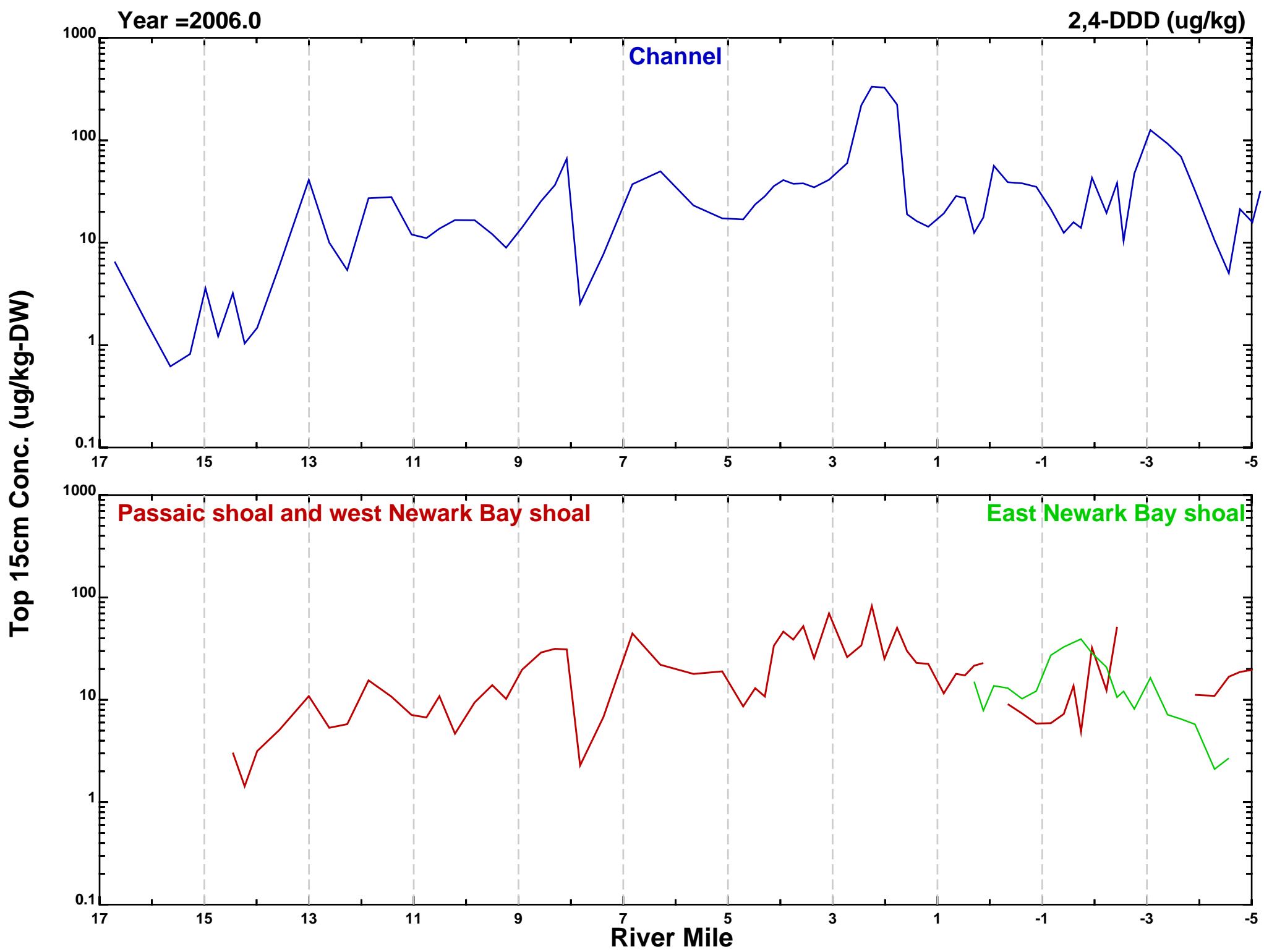


River Mile



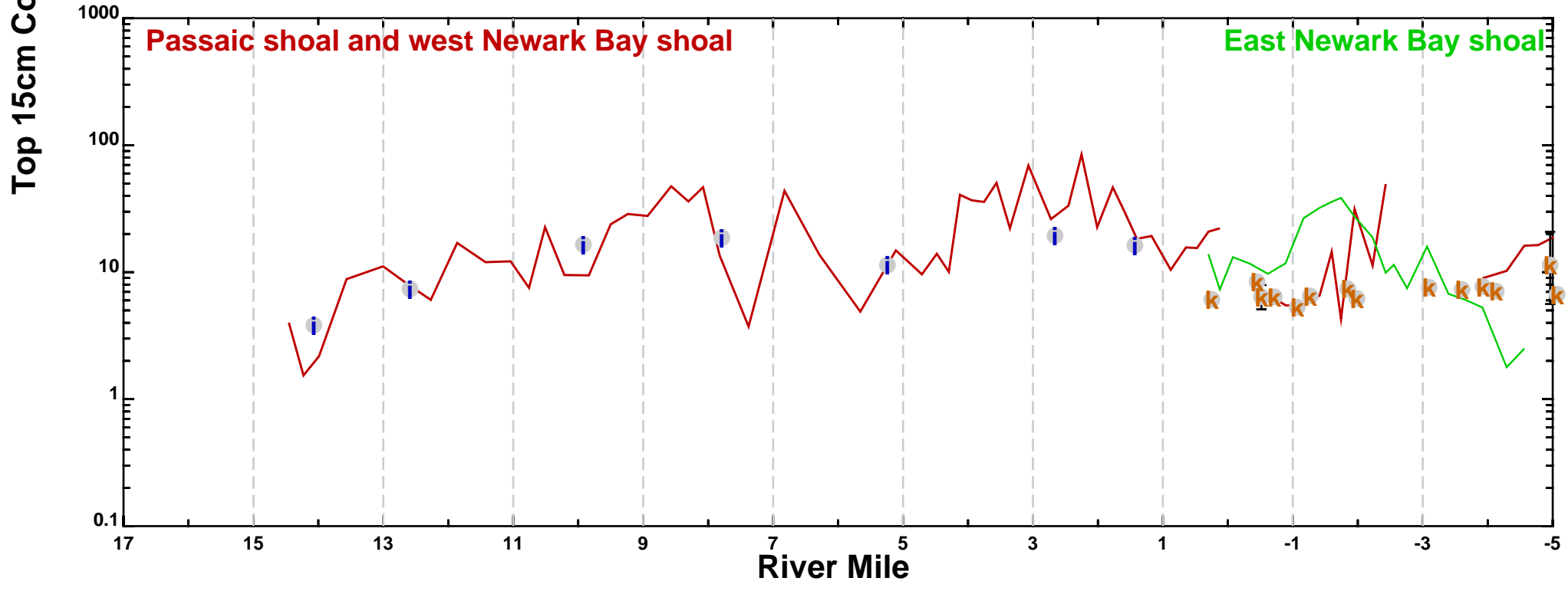
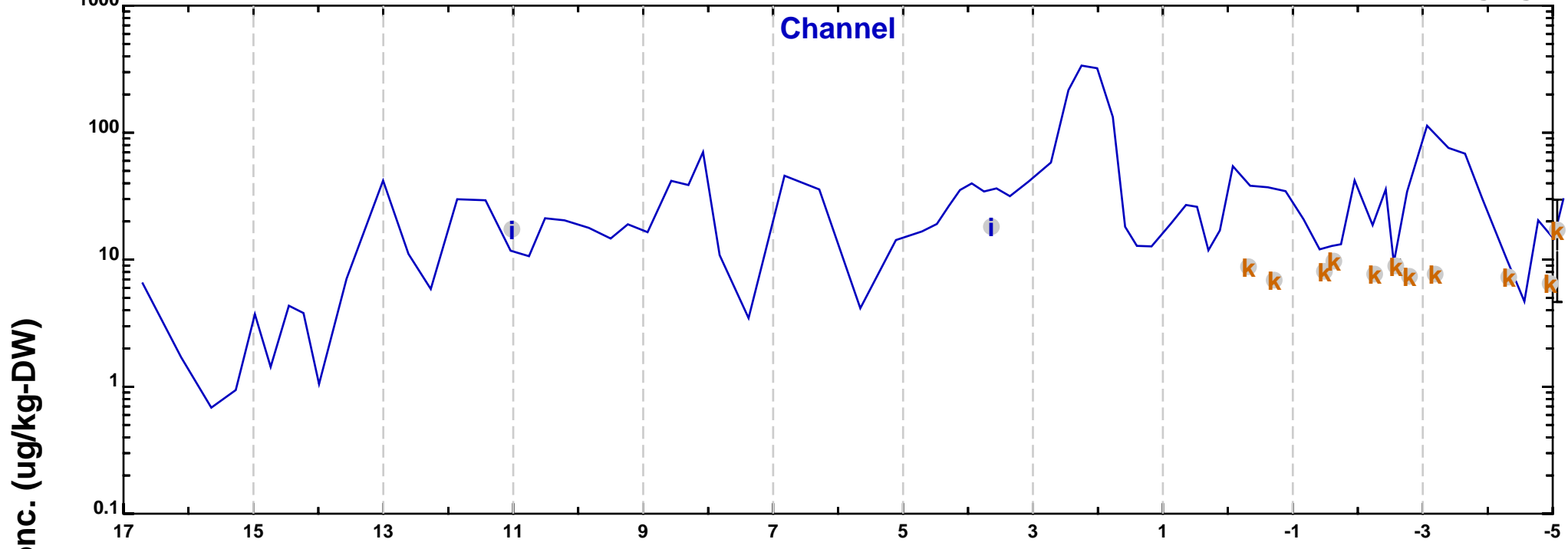






Year =2007.0

2,4-DDD (ug/kg)



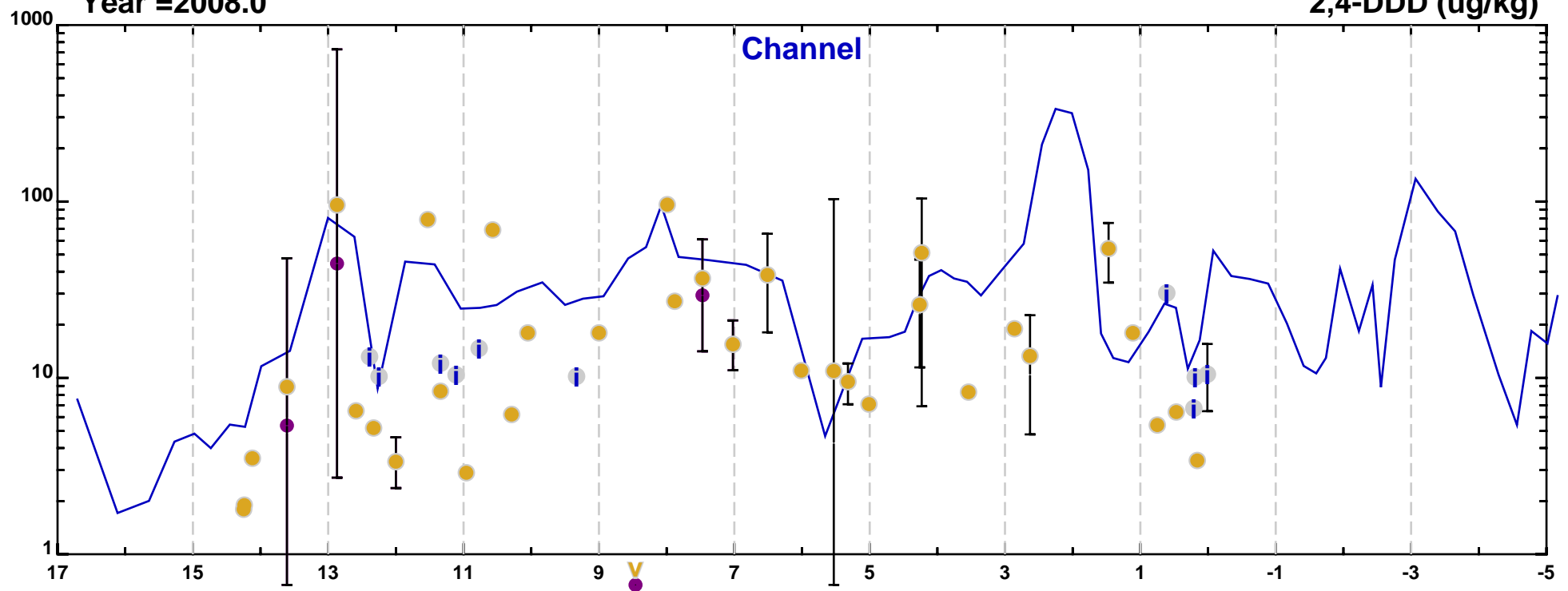


Year =2008.0

2,4-DDD (ug/kg)

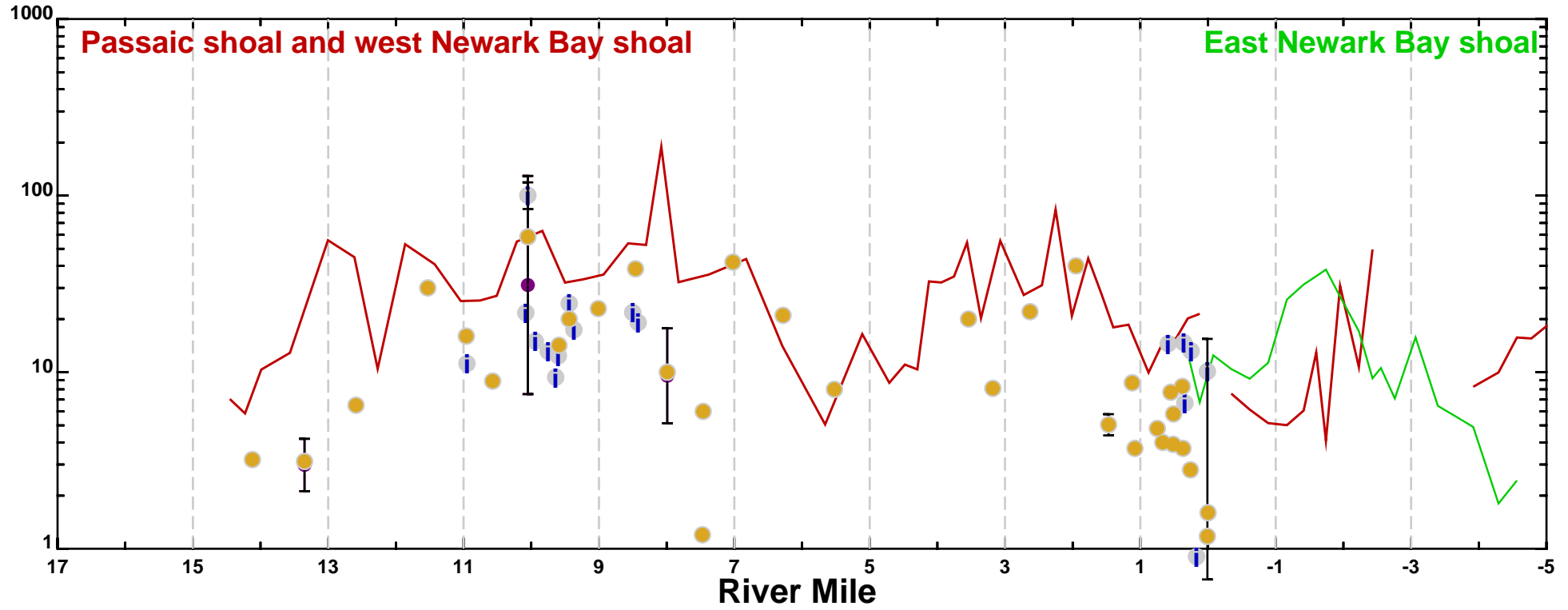
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



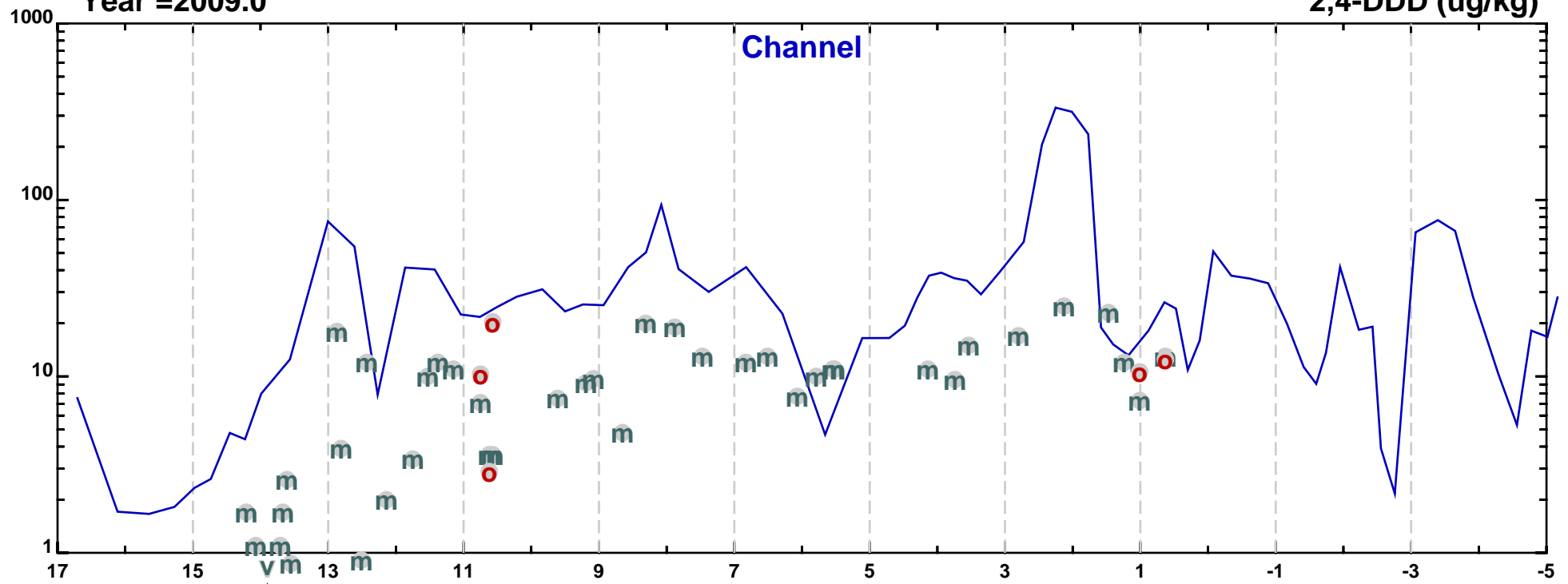
River Mile

Year =2009.0

2,4-DDD (ug/kg)

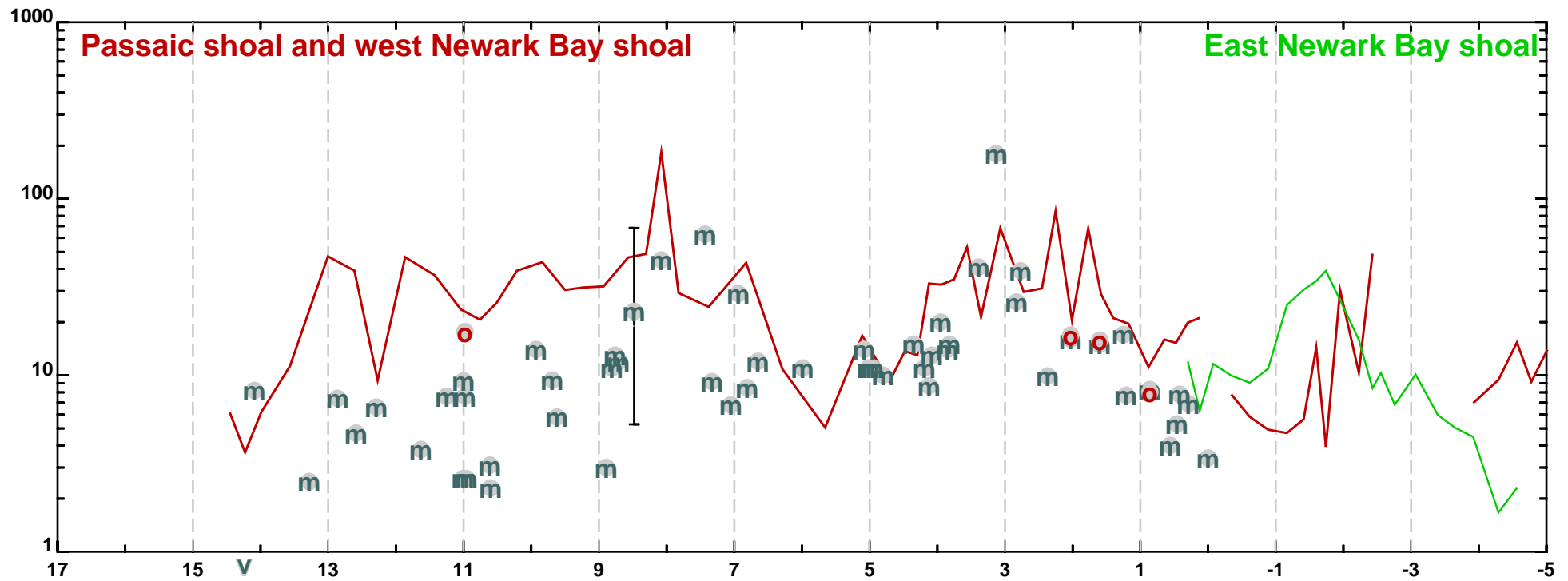
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

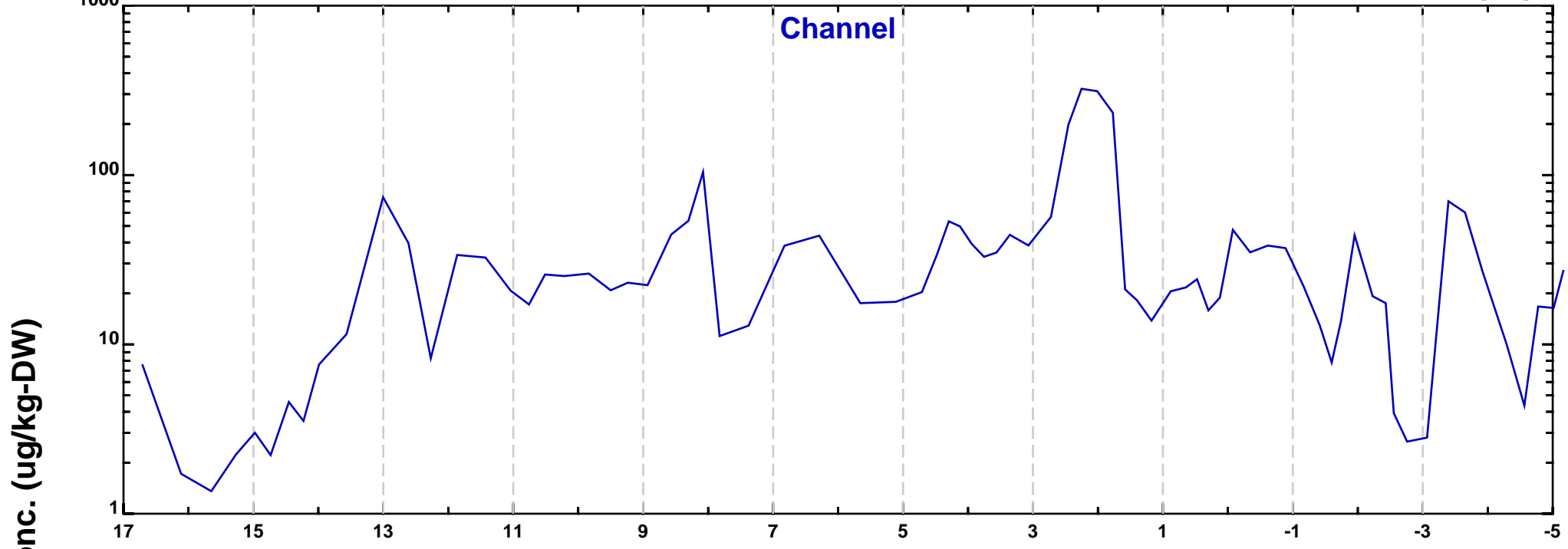
East Newark Bay shoal



River Mile

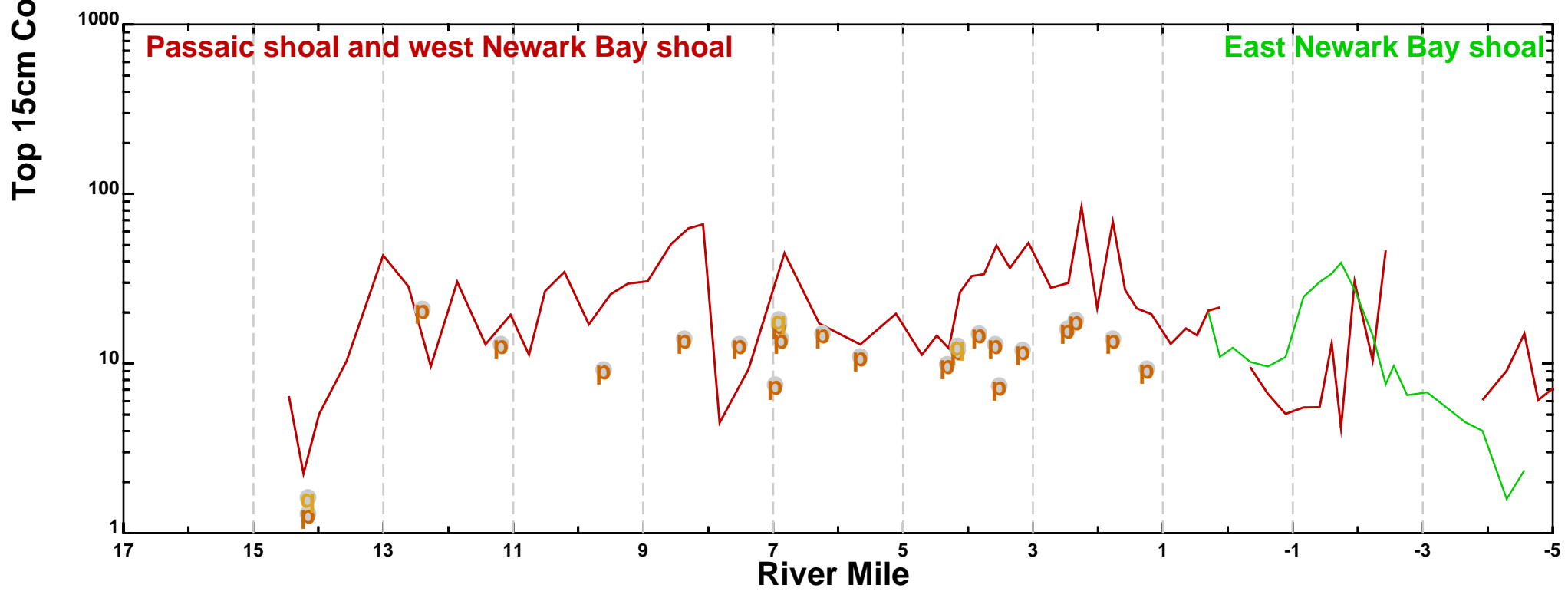
Year = 2010.0

2,4-DDD (ug/kg)



Passaic shoal and west Newark Bay shoal

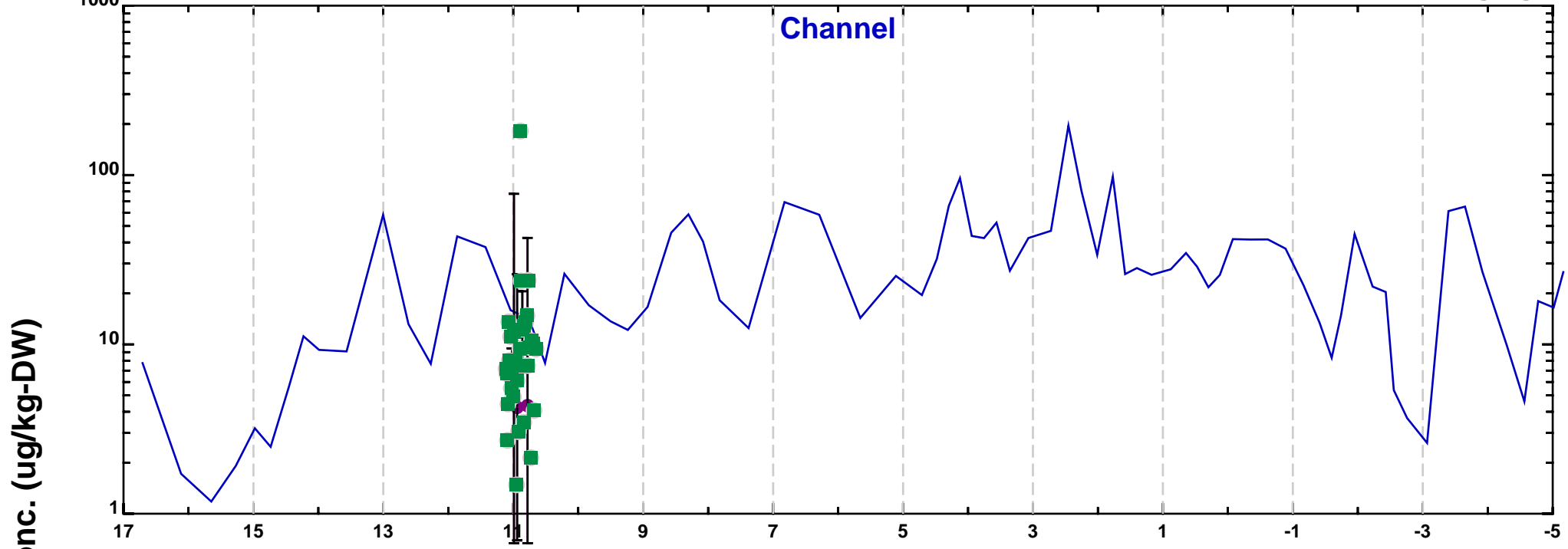
East Newark Bay shoal



River Mile

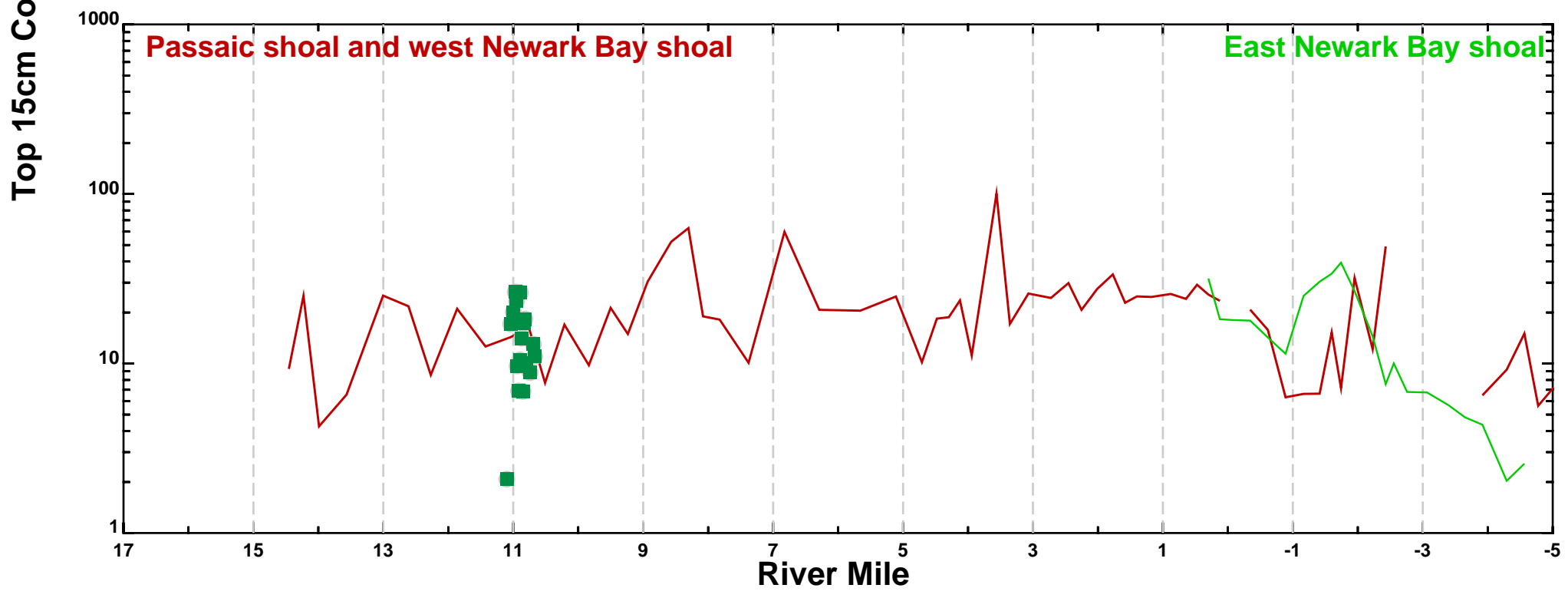
Year =2011.0

2,4-DDD (ug/kg)



Passaic shoal and west Newark Bay shoal

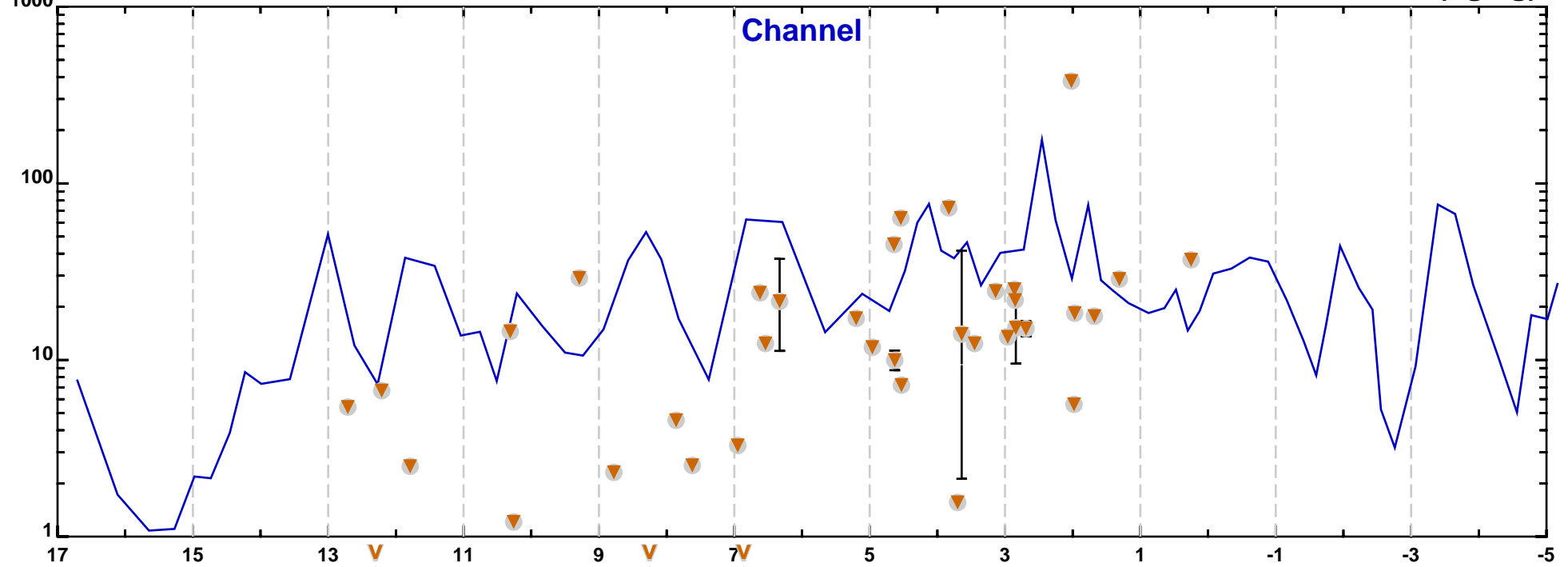
East Newark Bay shoal



Year =2012.0

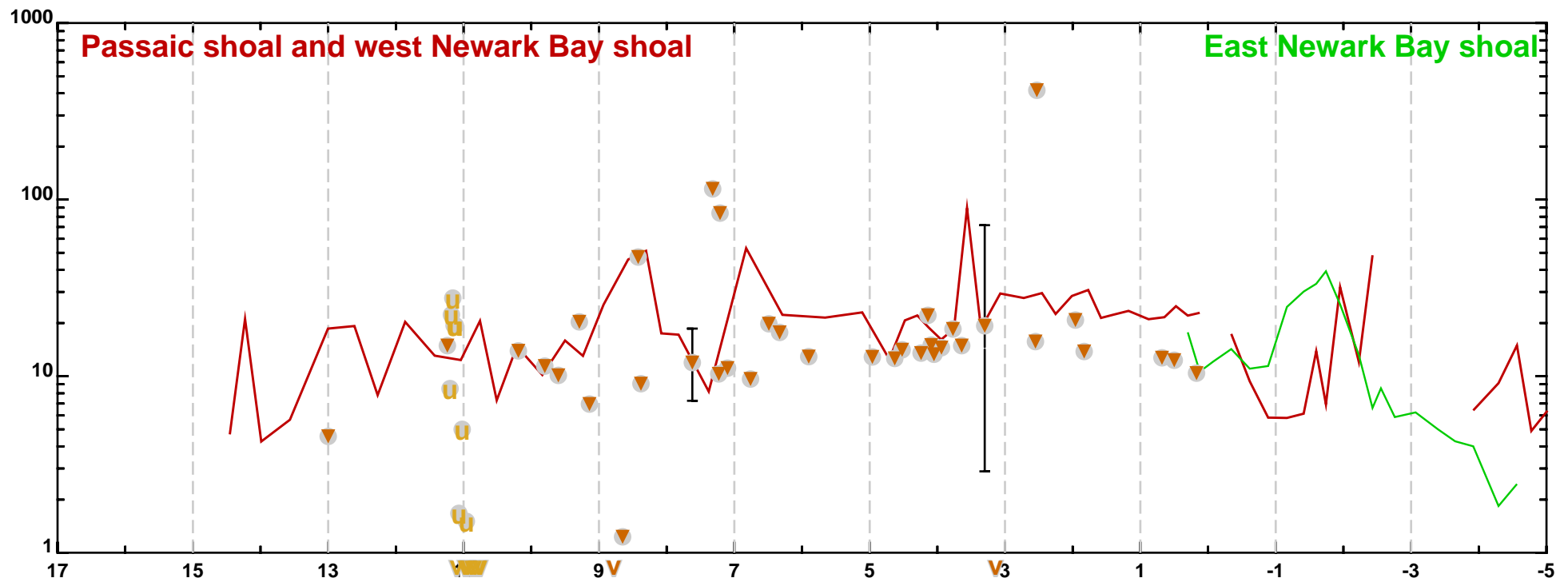
2,4-DDD (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2013.0

2,4-DDD (ug/kg)

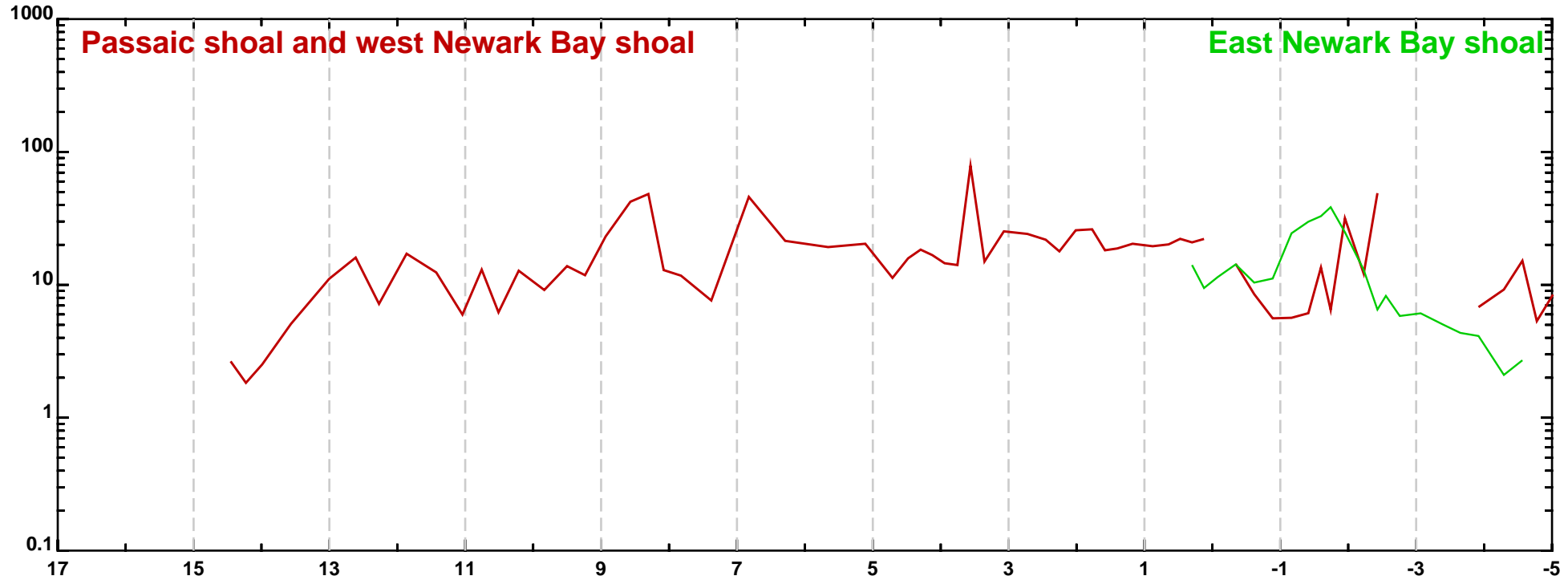
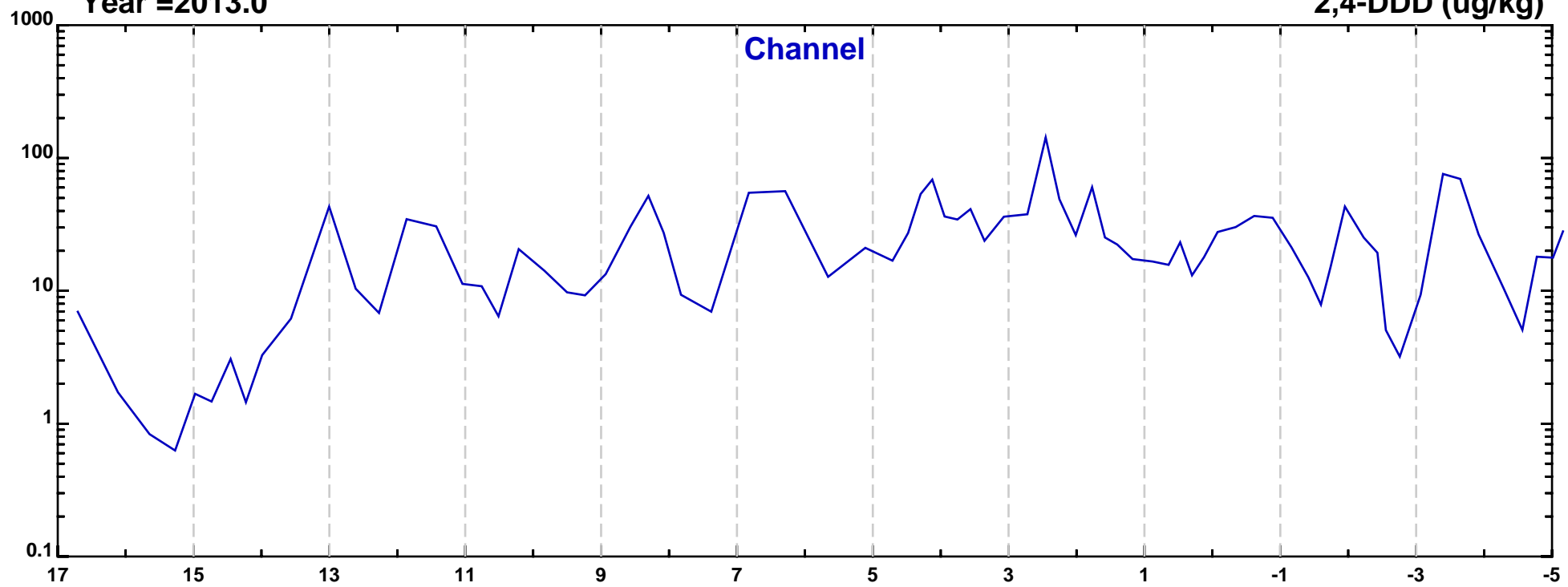
Top 15cm Conc. (ug/kg-DW)

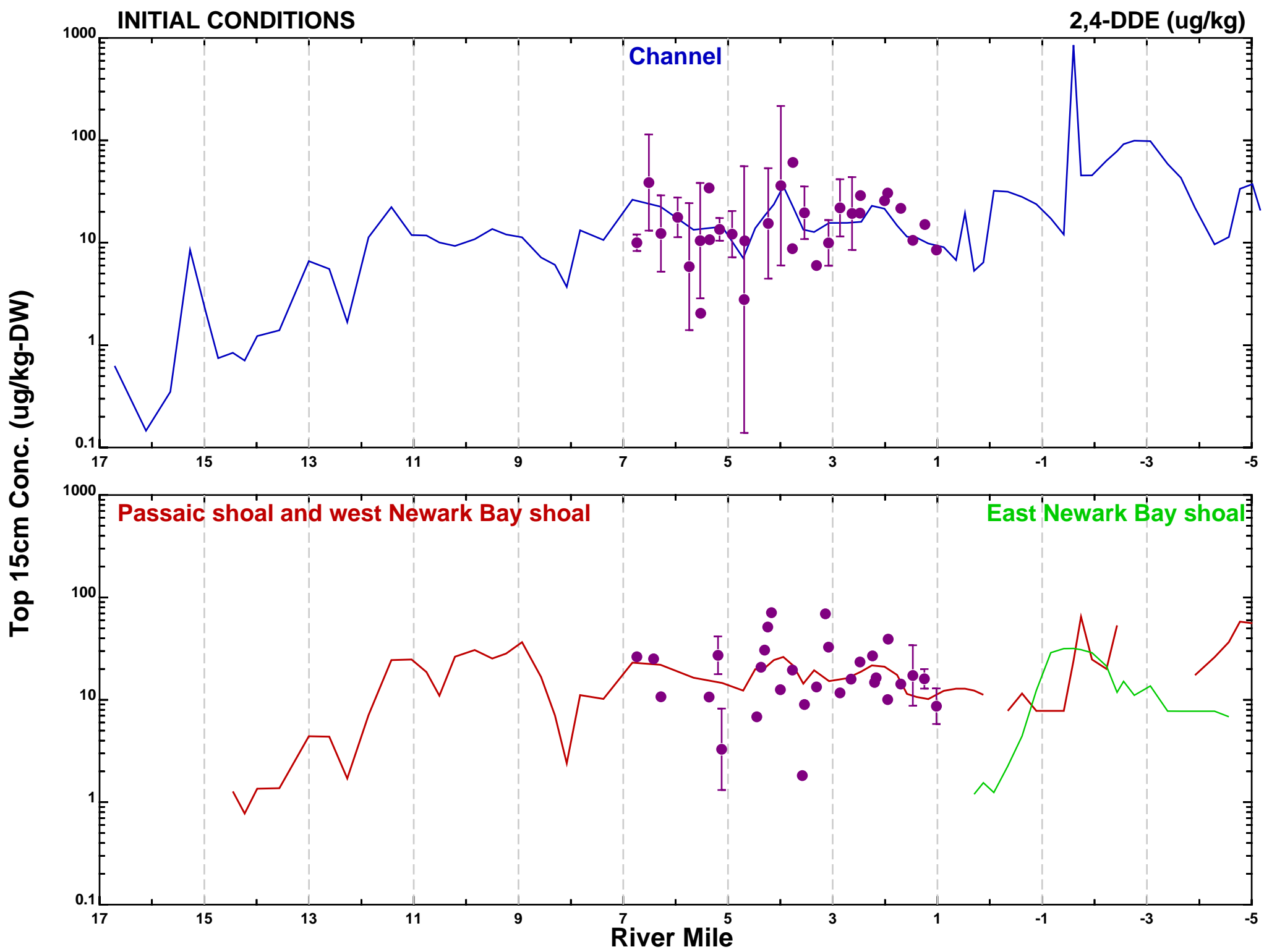
Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile



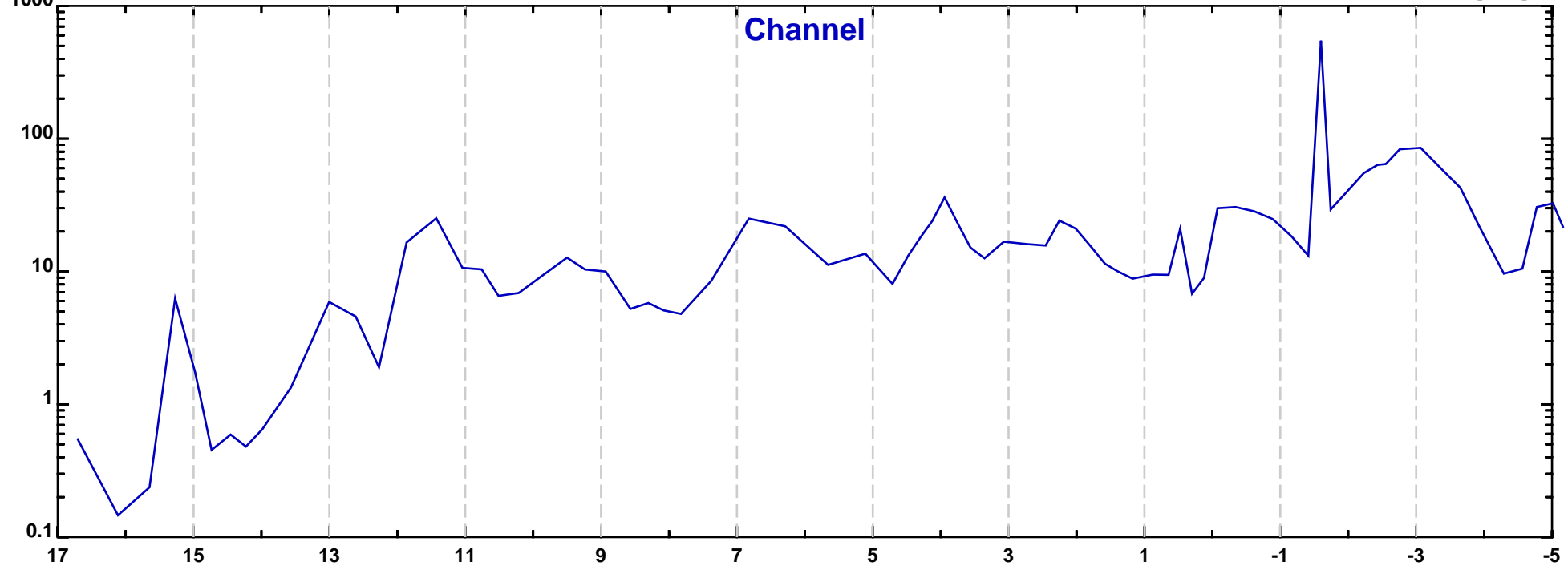


Year = 1996.0

2,4-DDE (ug/kg)

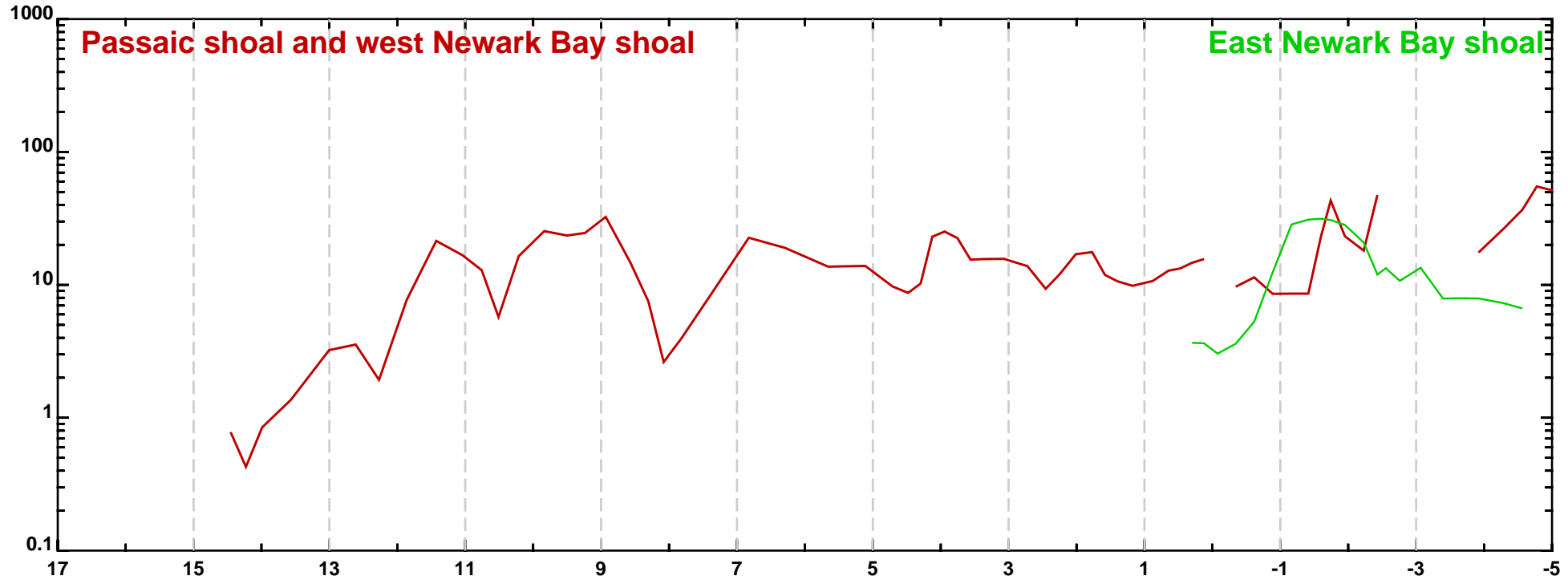
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



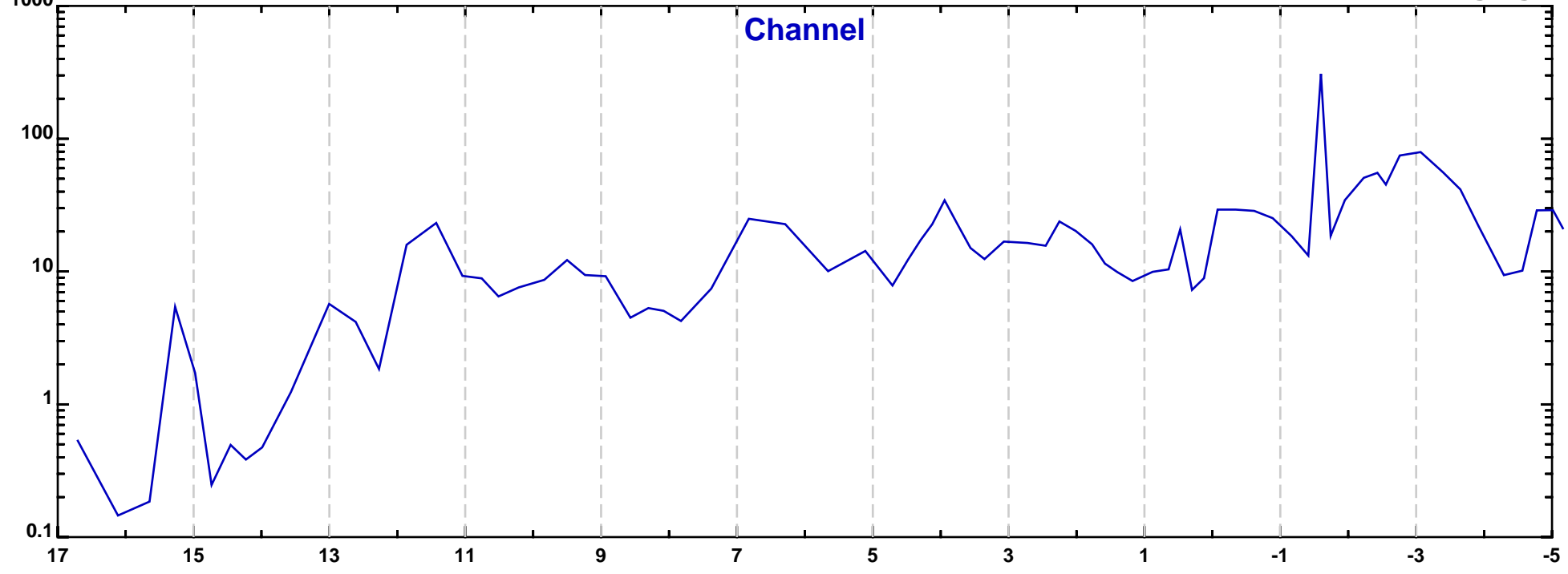
River Mile



Year = 1997.0

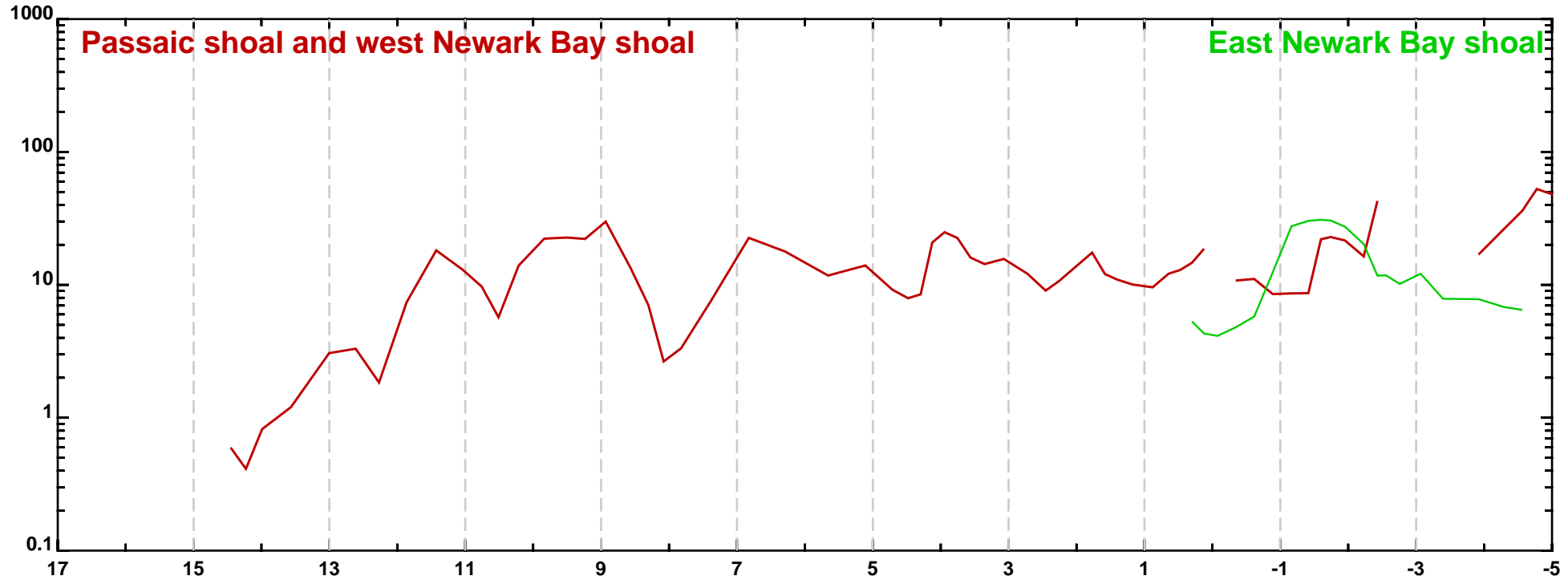
2,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

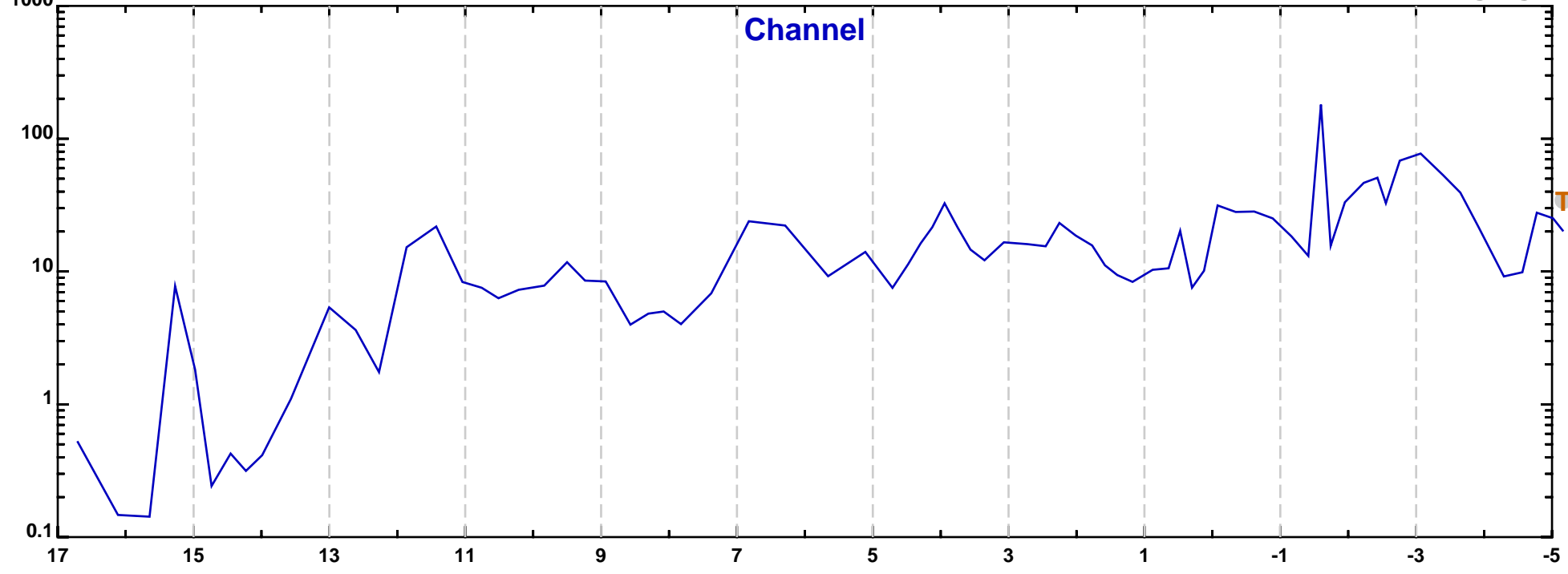


River Mile

Year = 1998.0

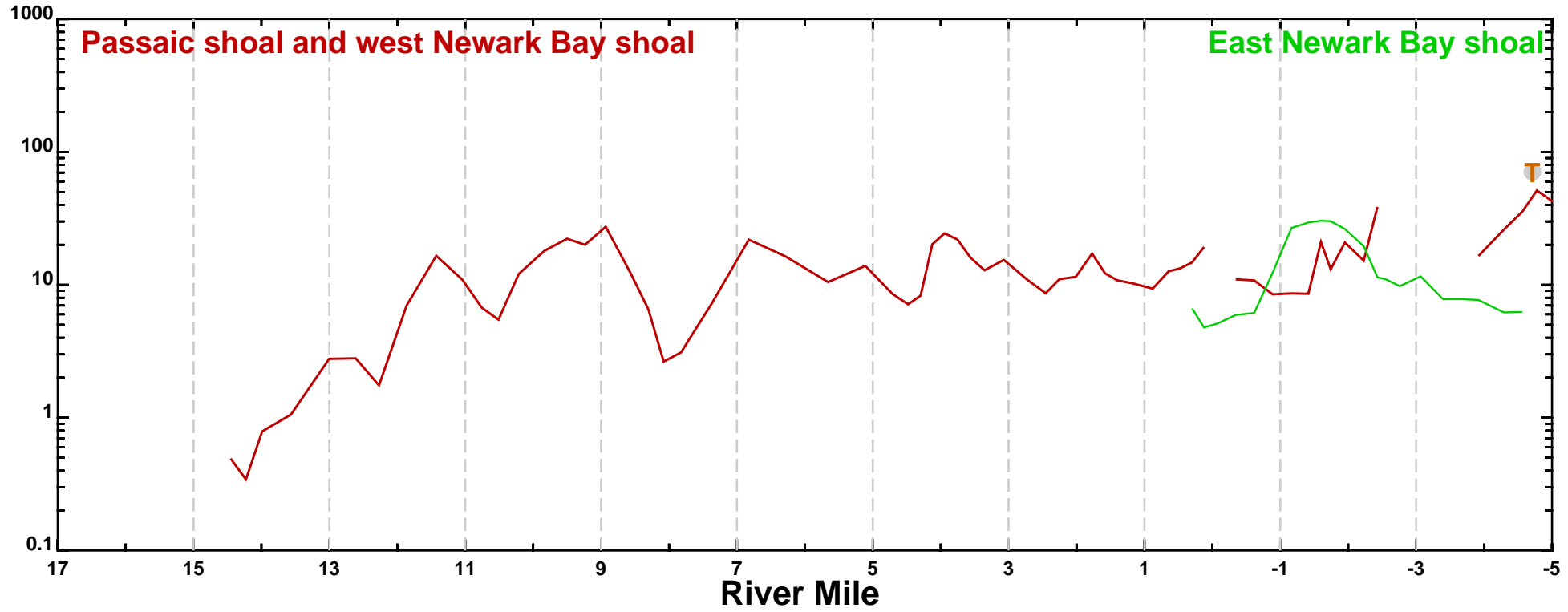
2,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

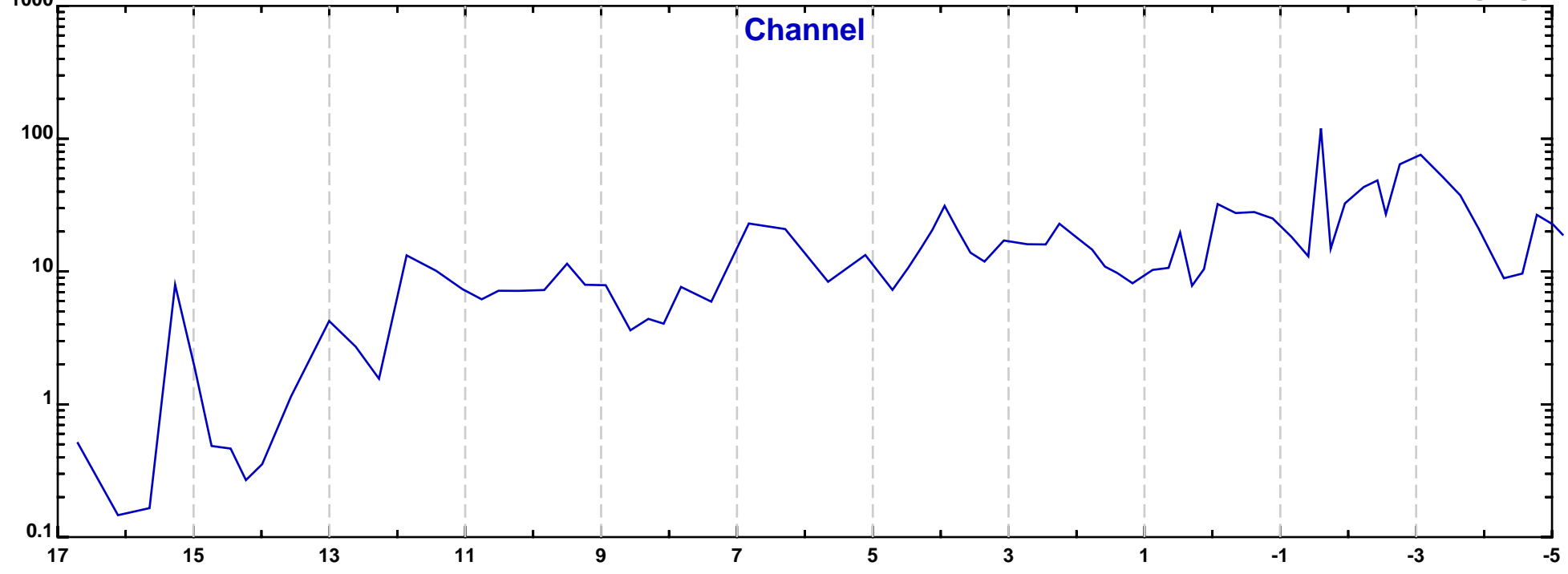


River Mile

Year = 1999.0

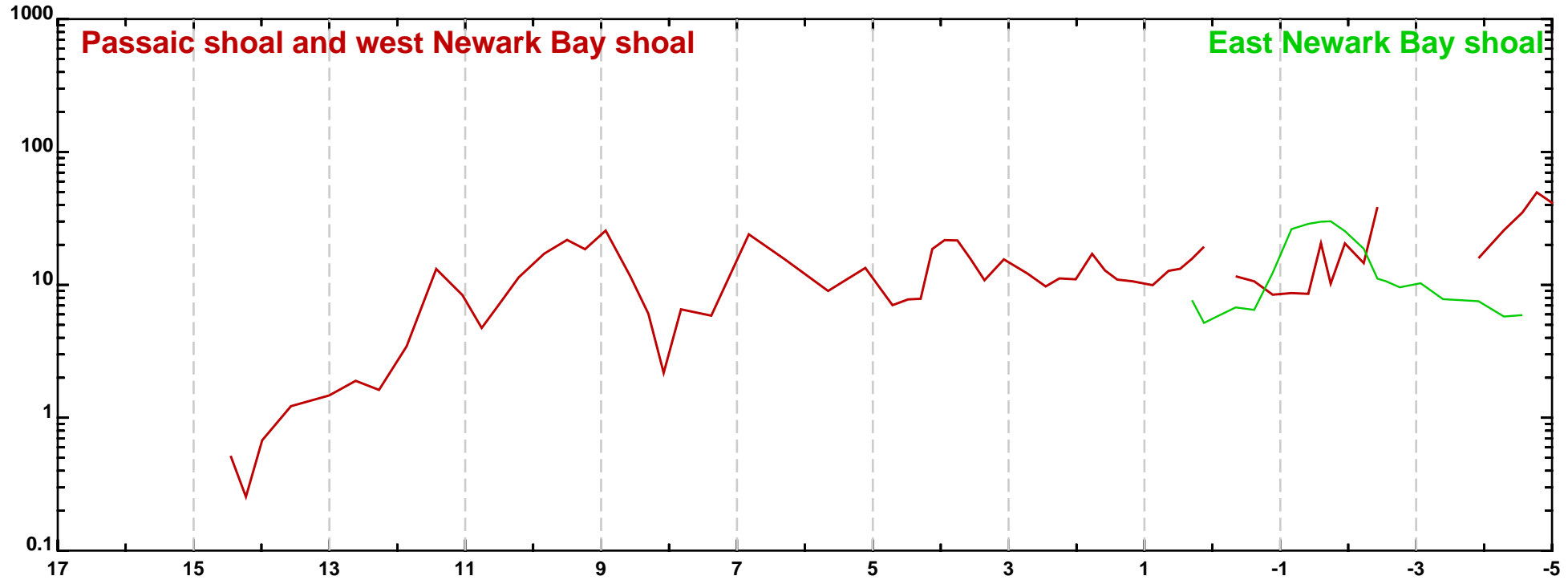
2,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)

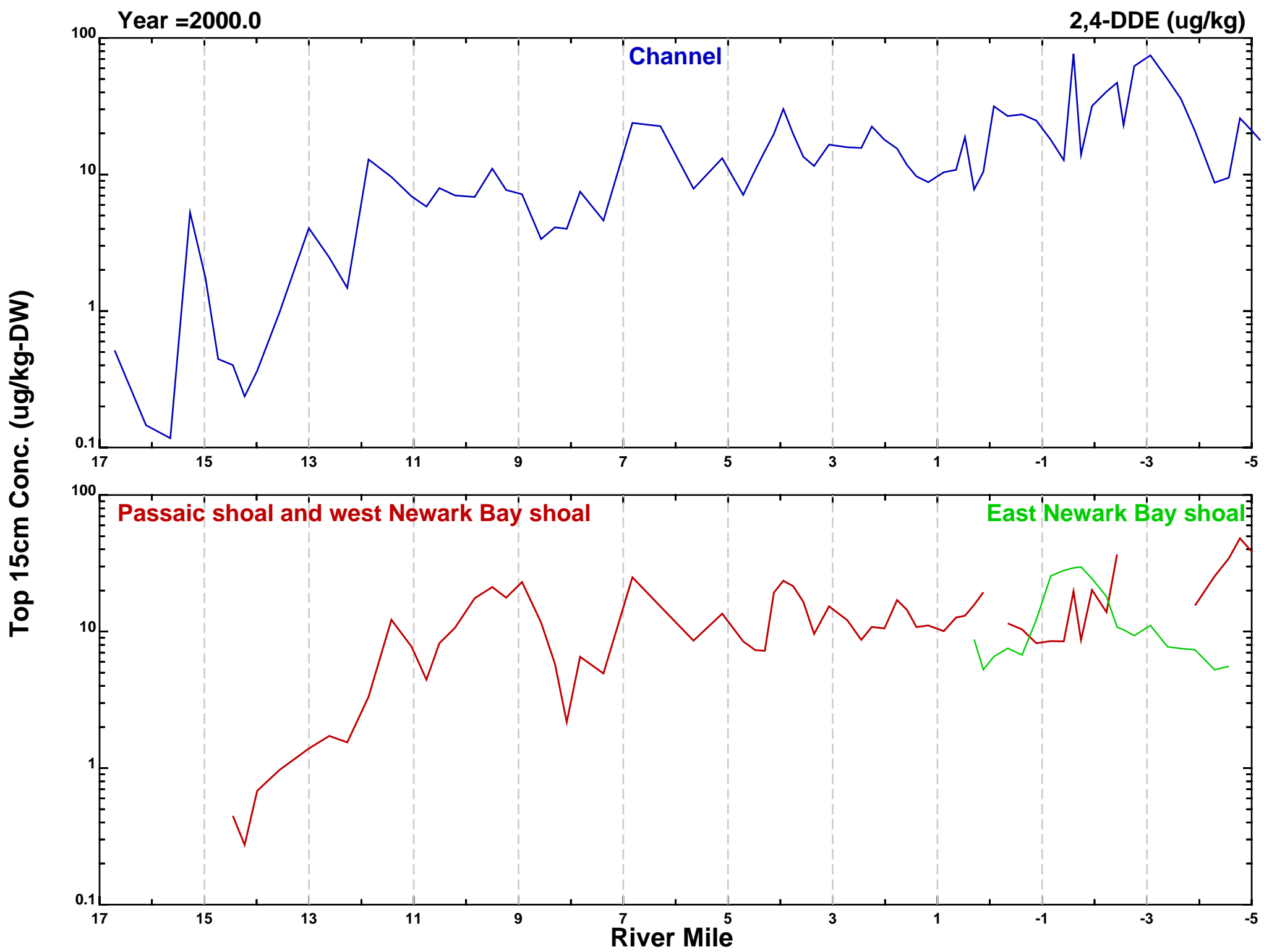


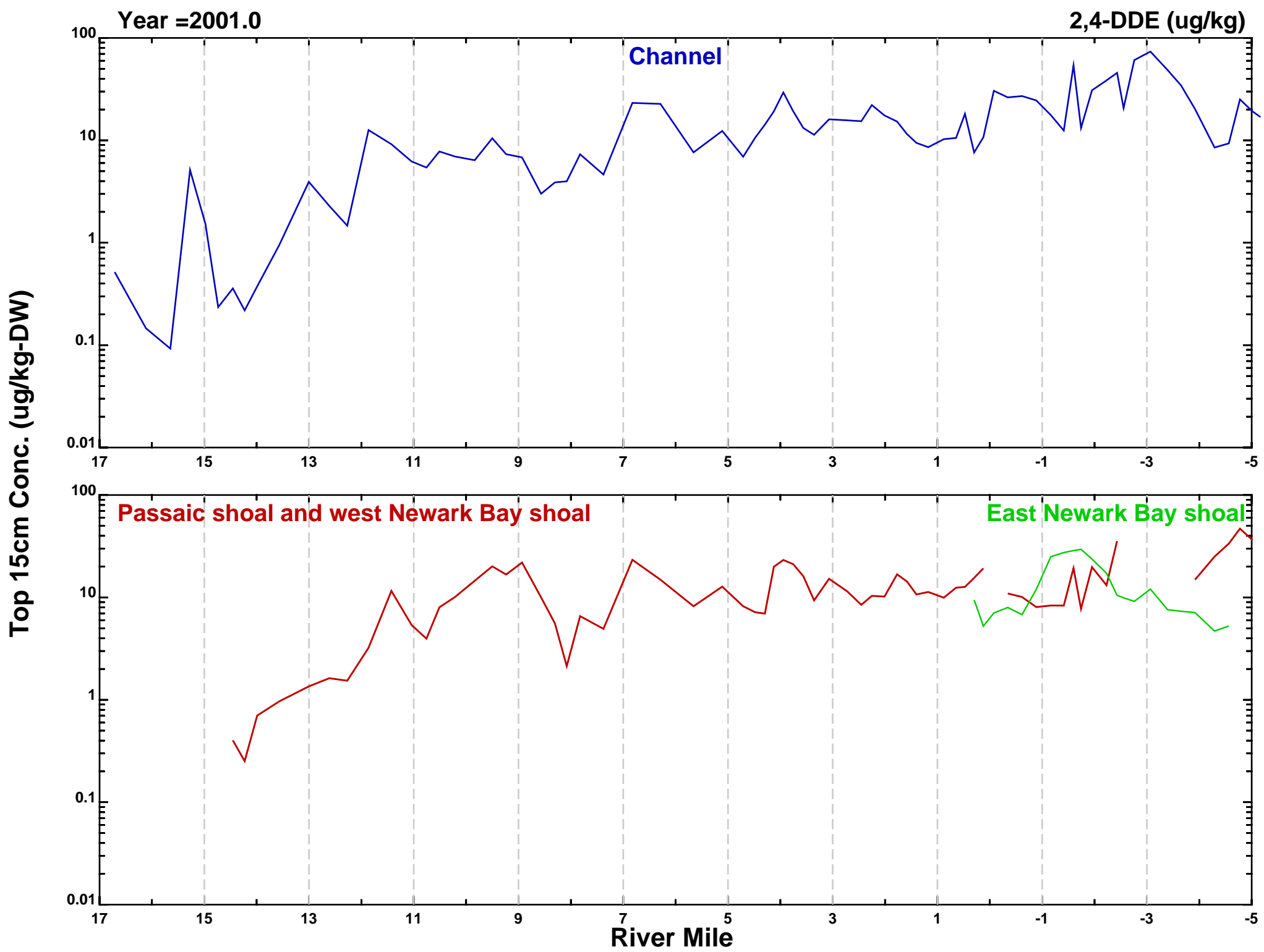
Passaic shoal and west Newark Bay shoal

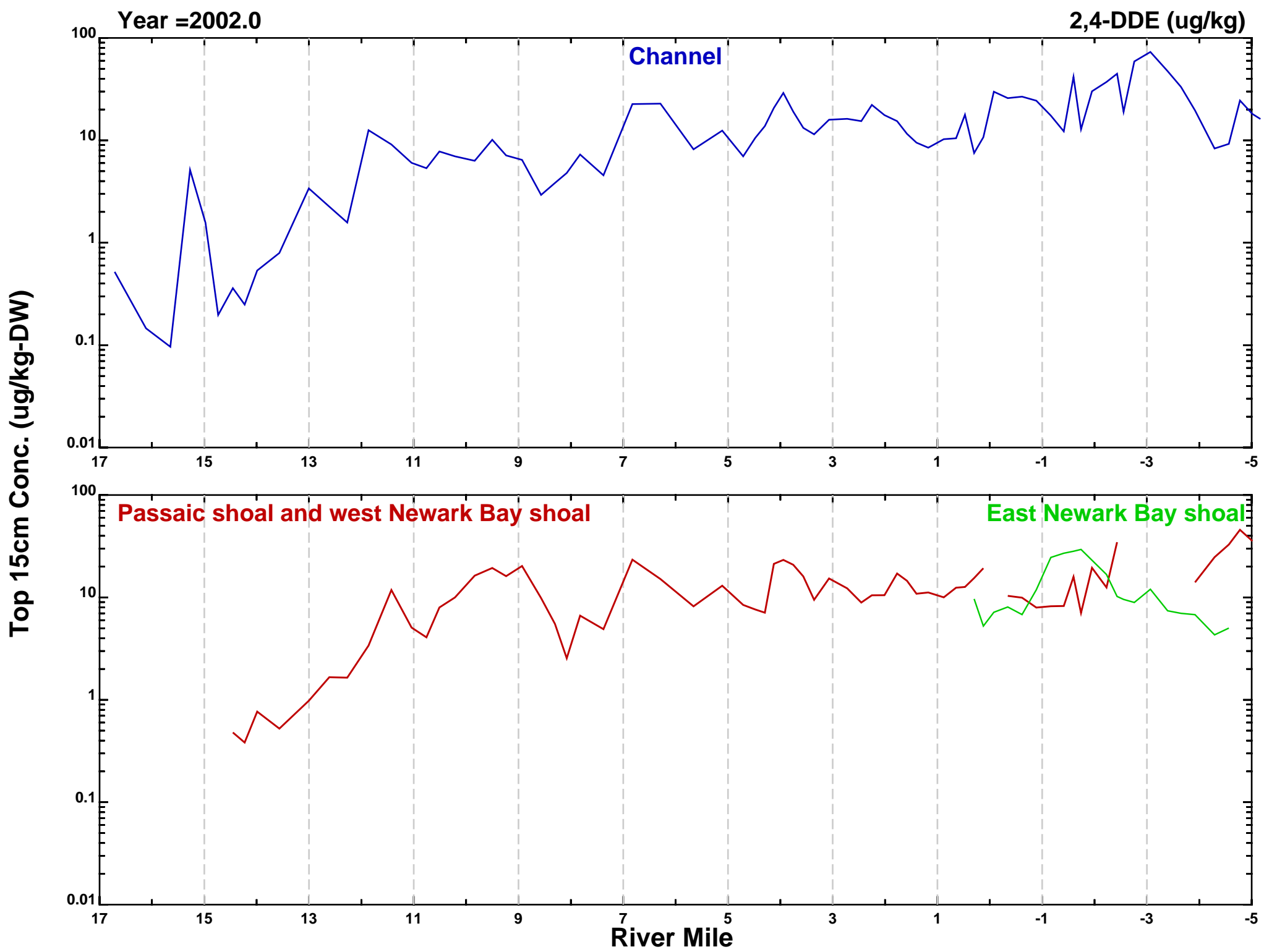
East Newark Bay shoal

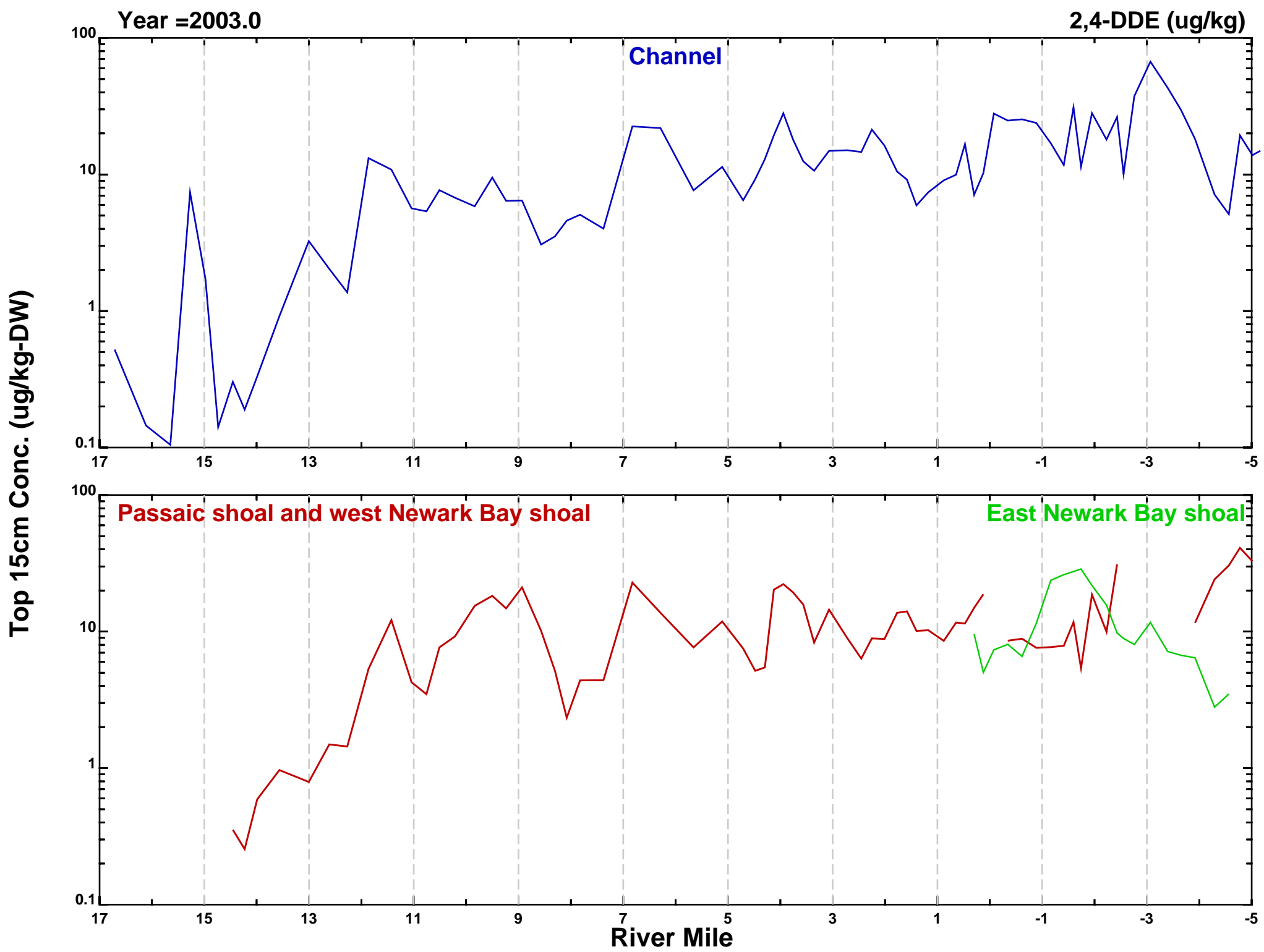


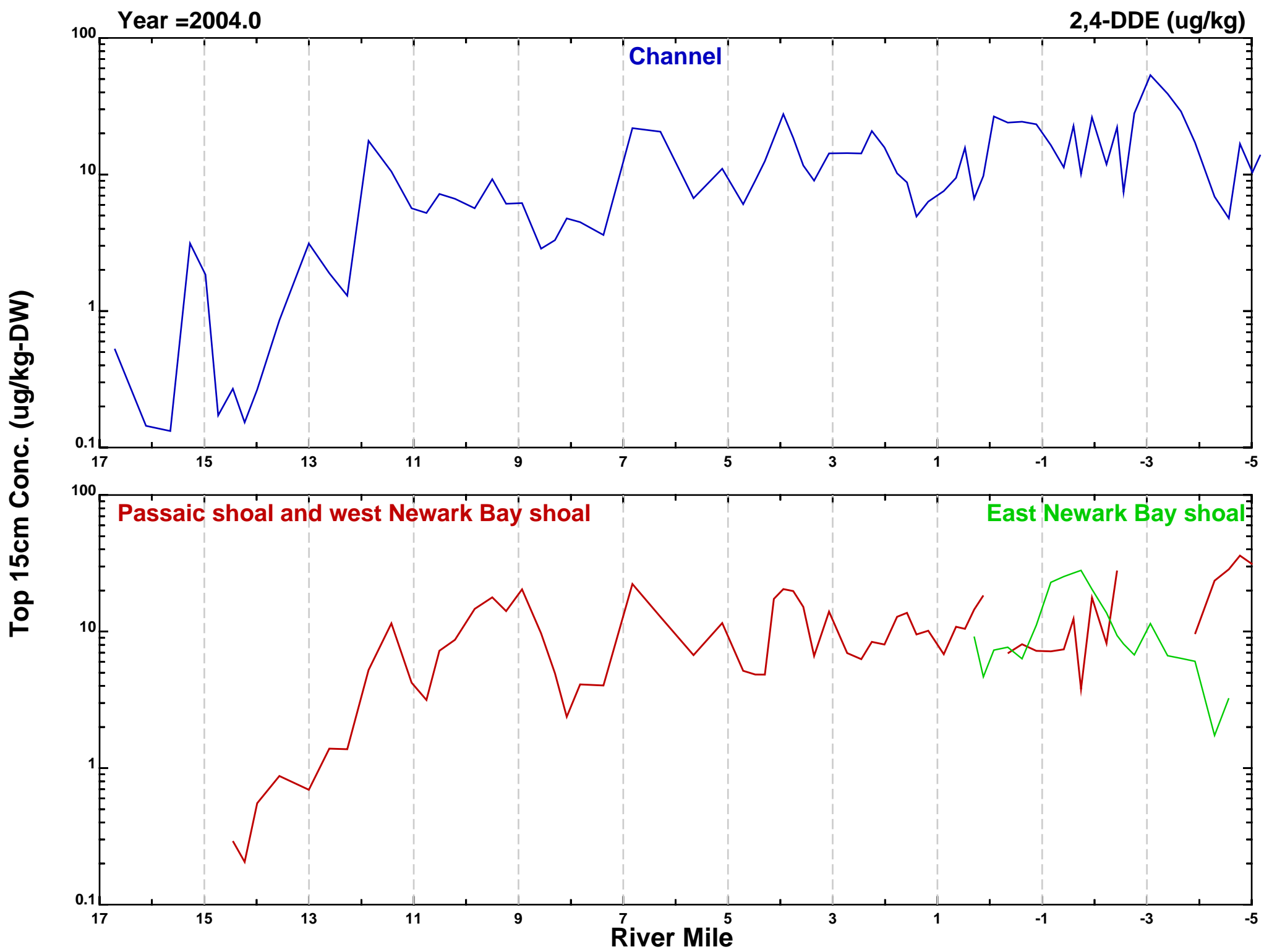
River Mile



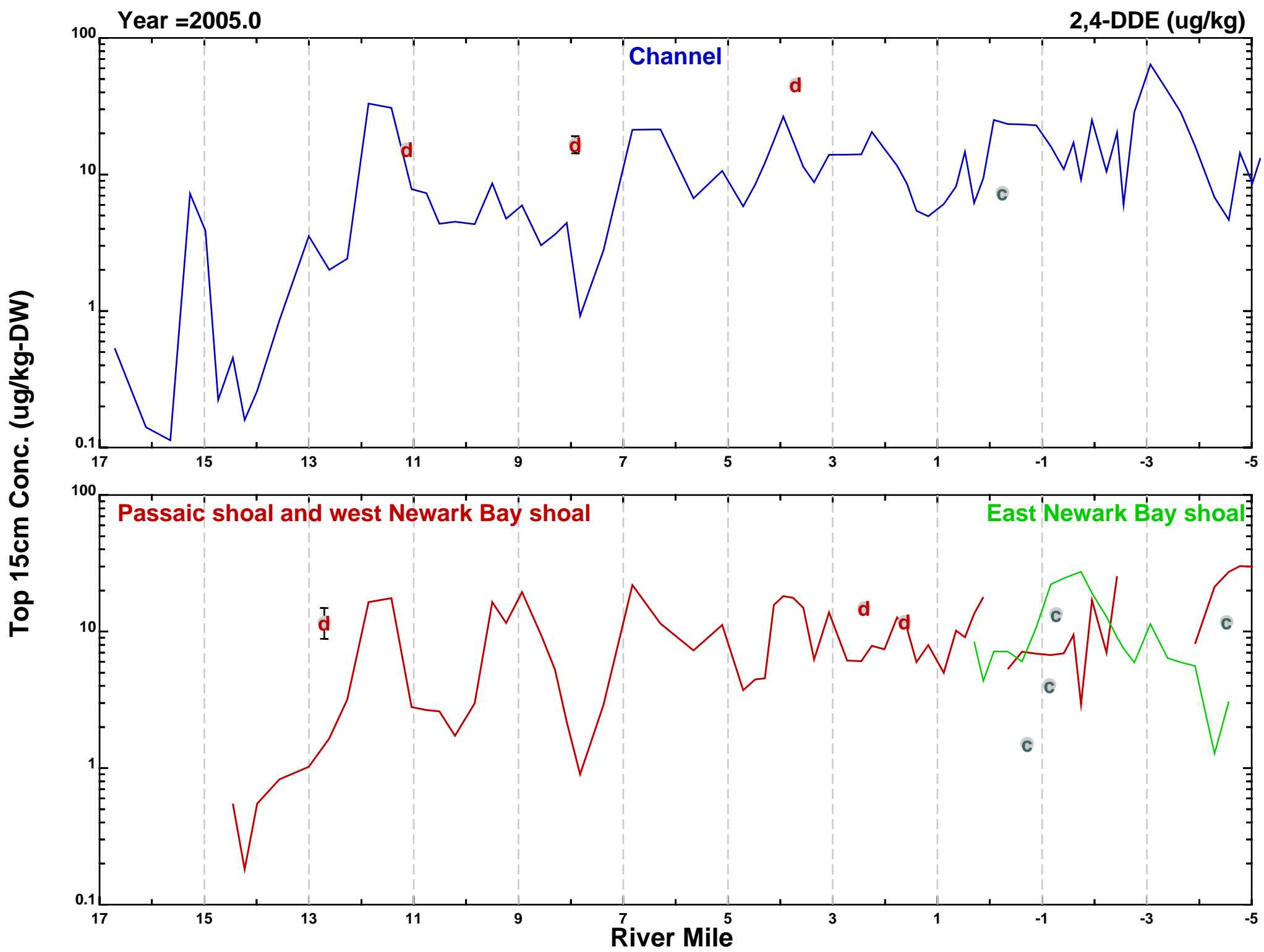


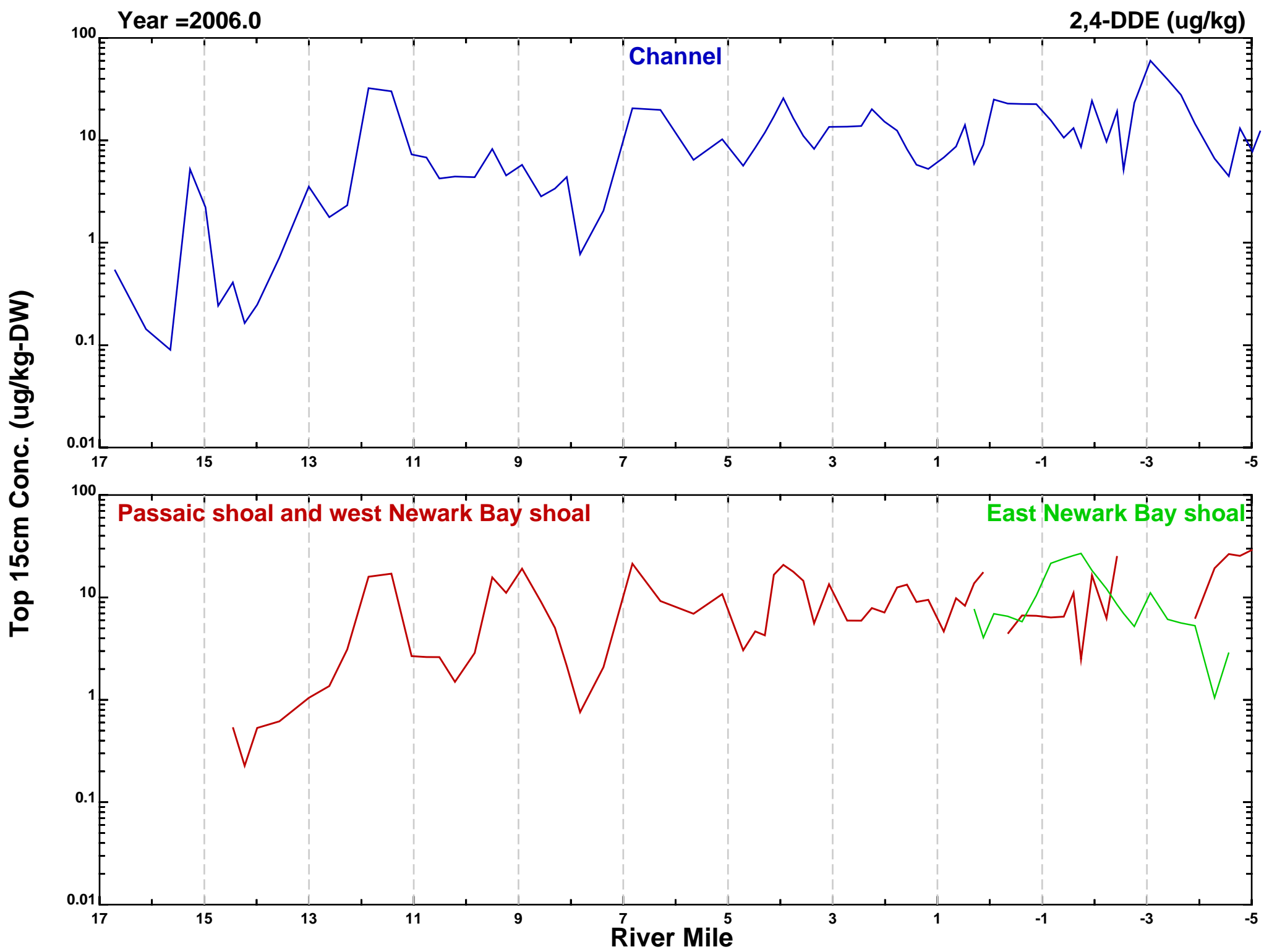












Year =2007.0

2,4-DDE (ug/kg)

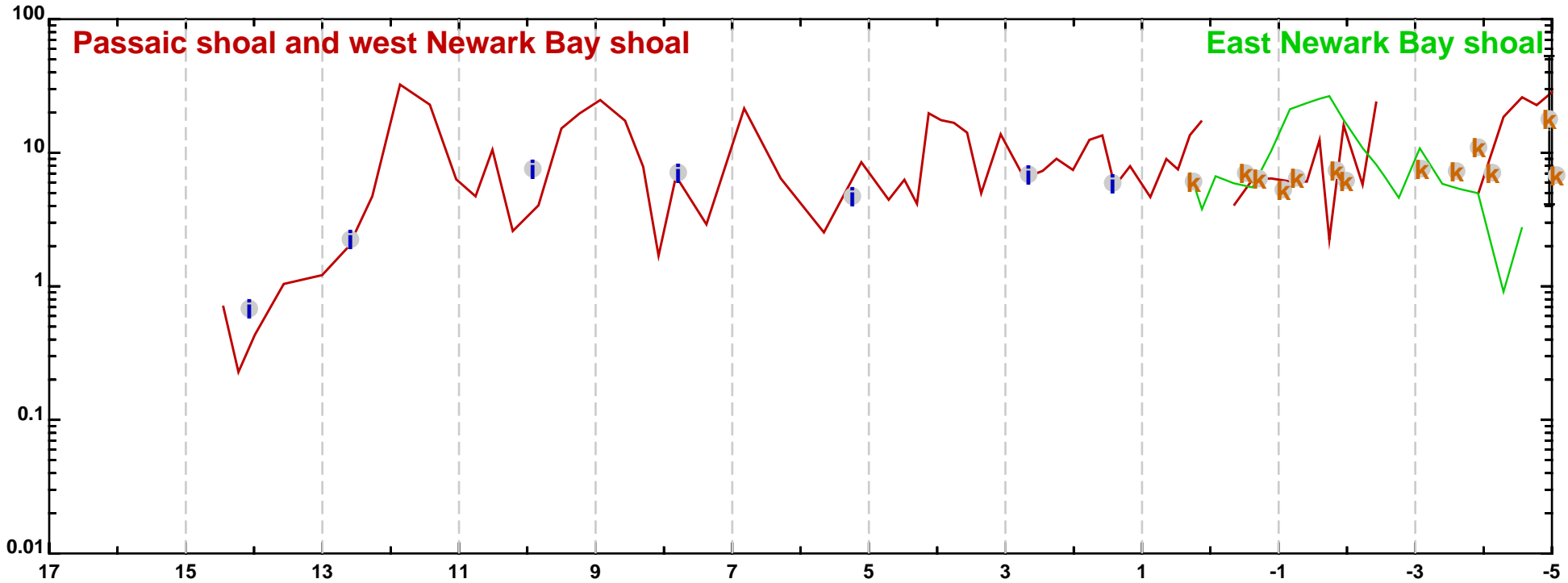
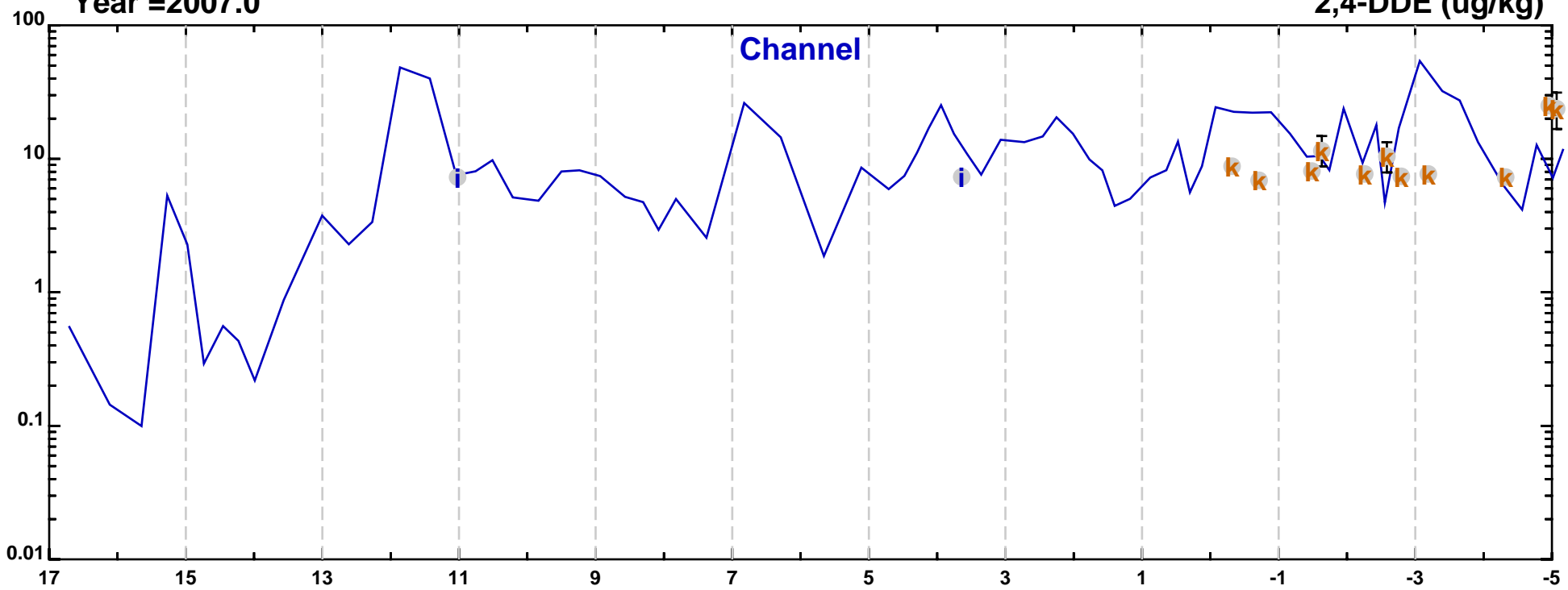
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

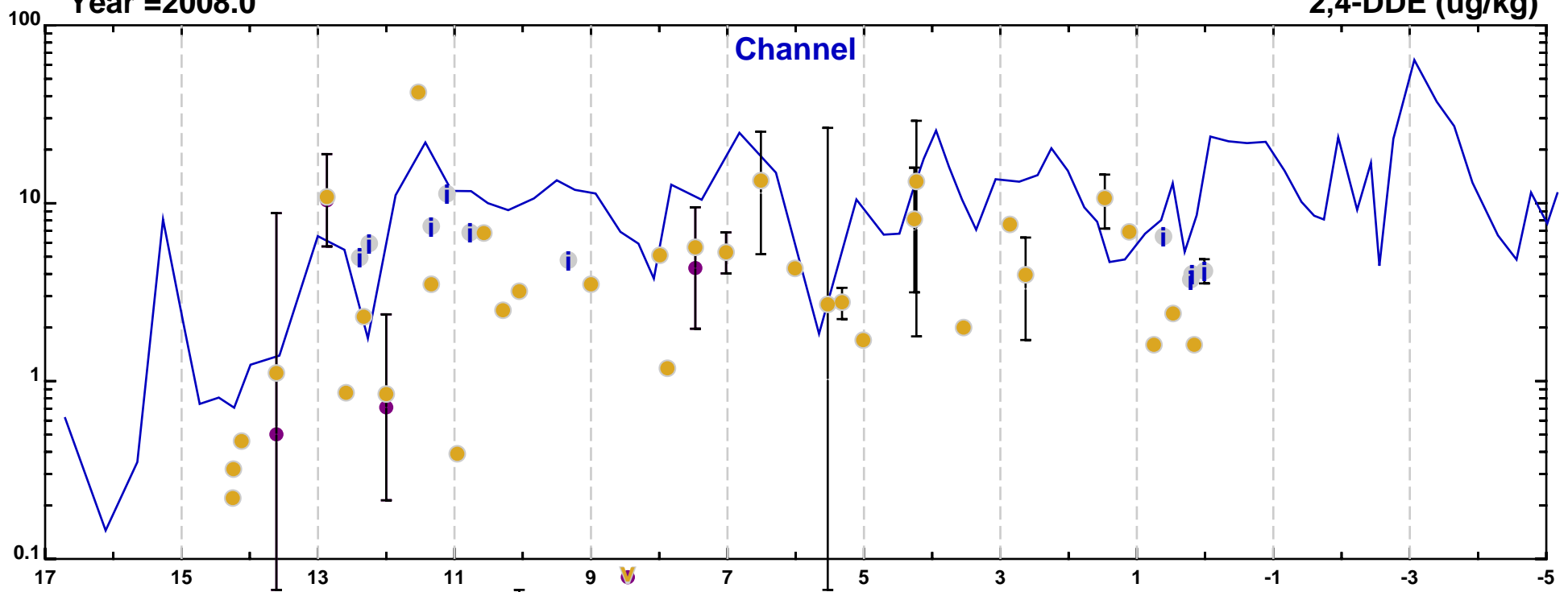


Year =2008.0

2,4-DDE (ug/kg)

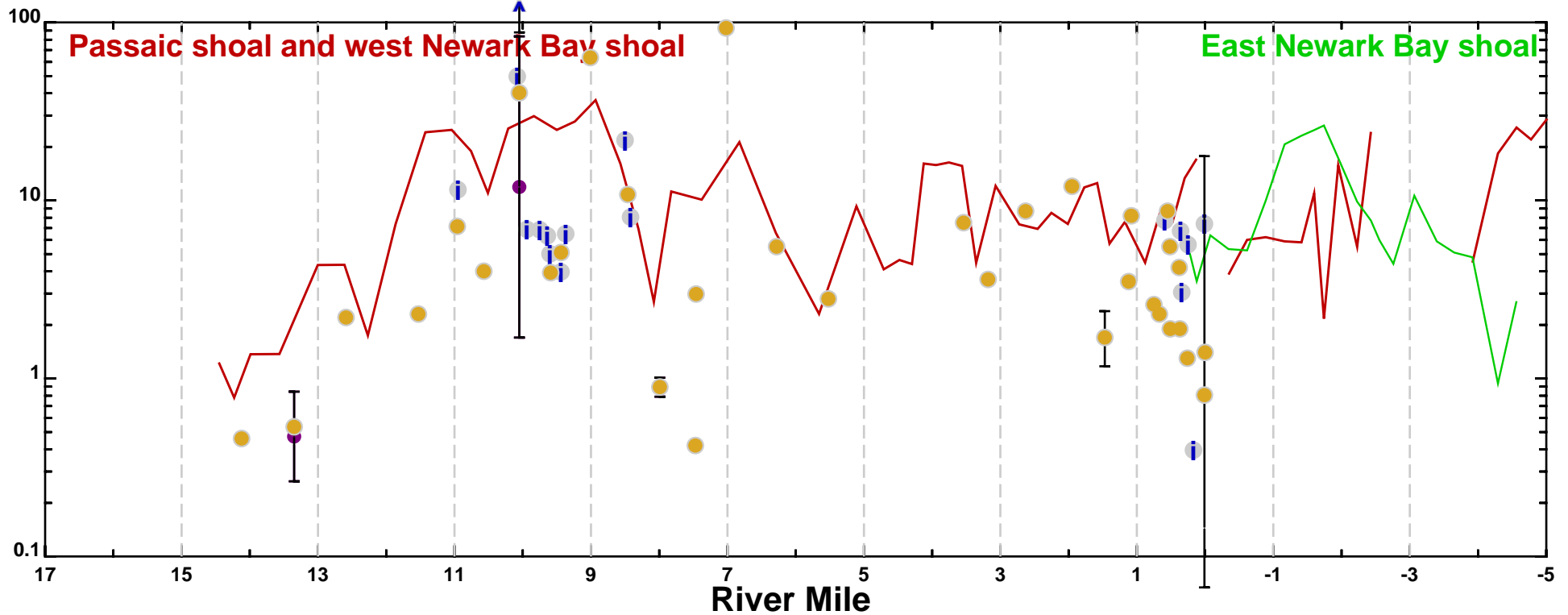
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

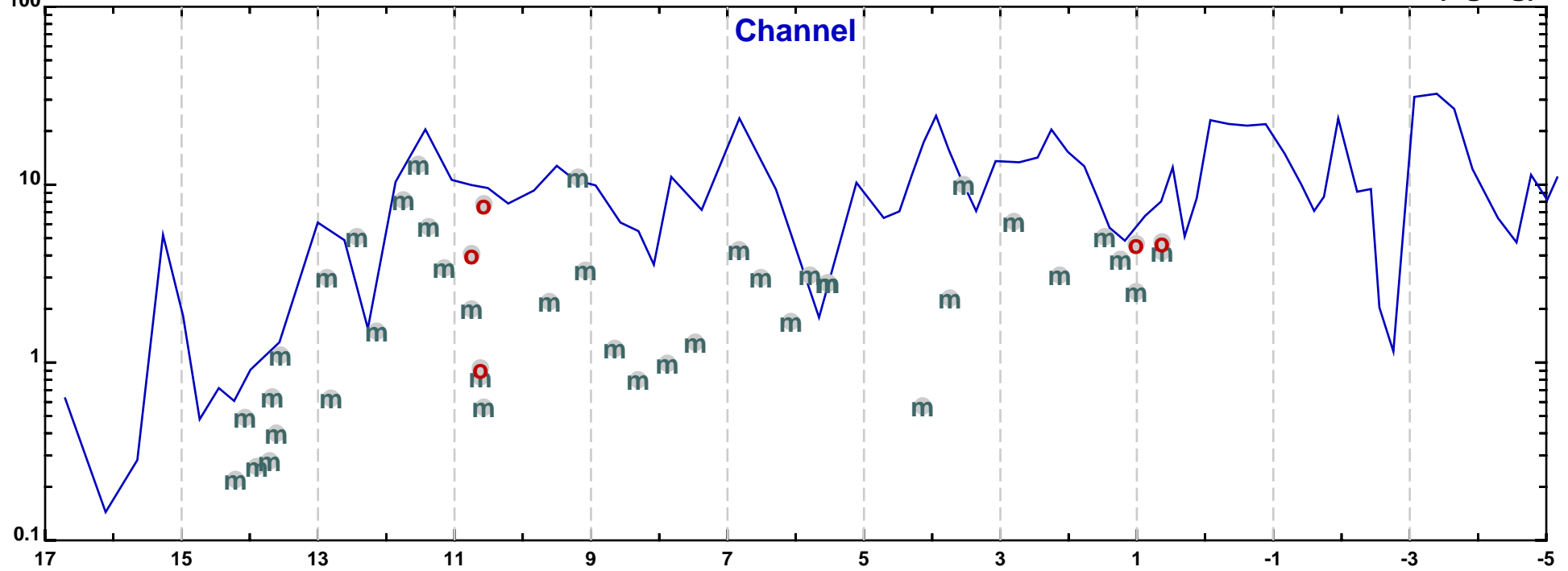


River Mile

Year =2009.0

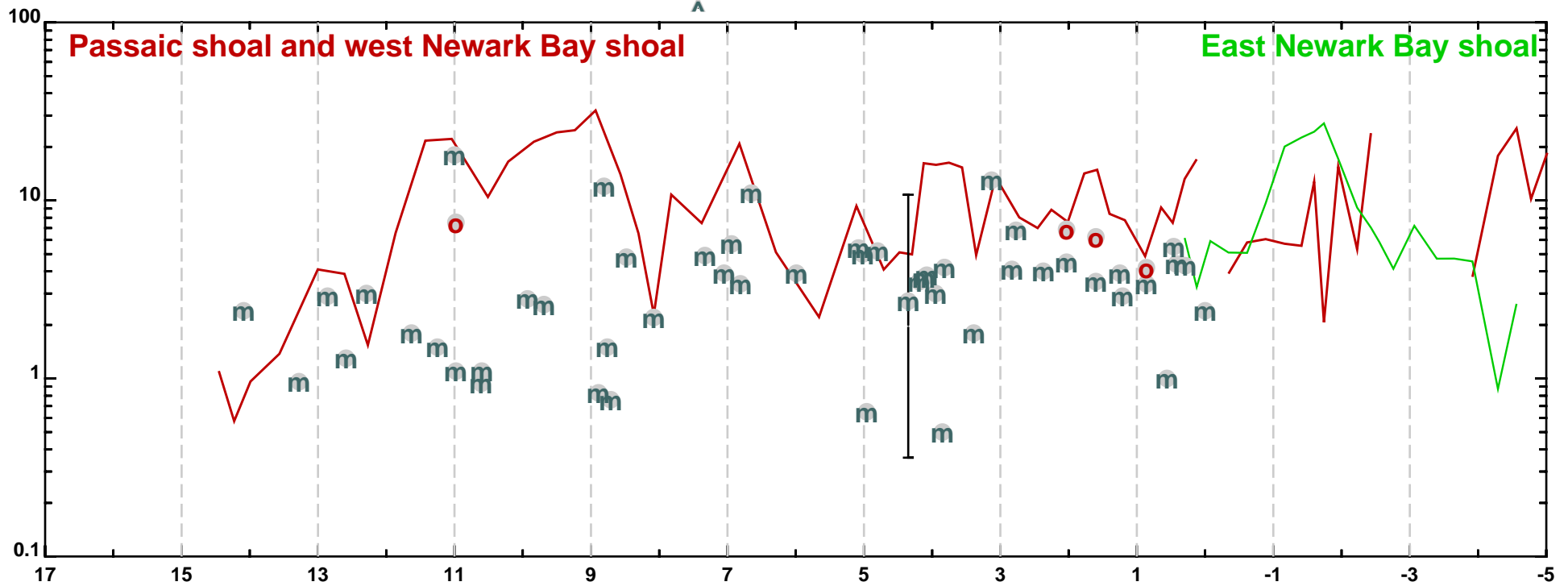
2,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

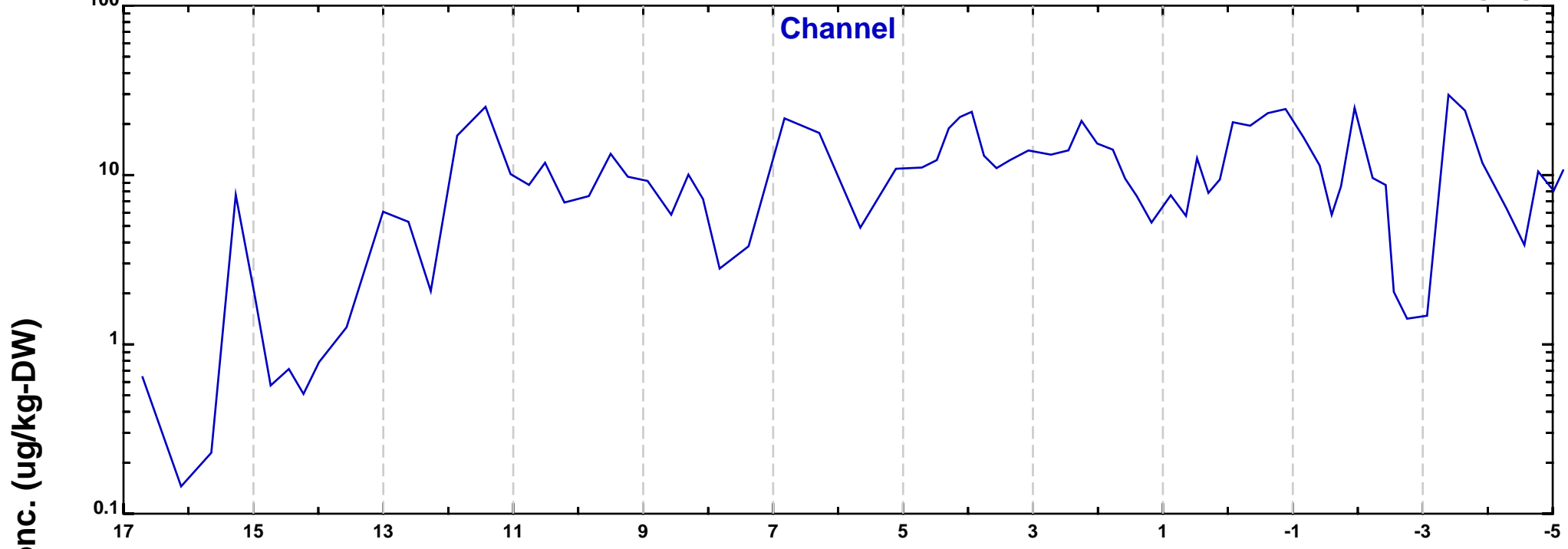
East Newark Bay shoal



River Mile

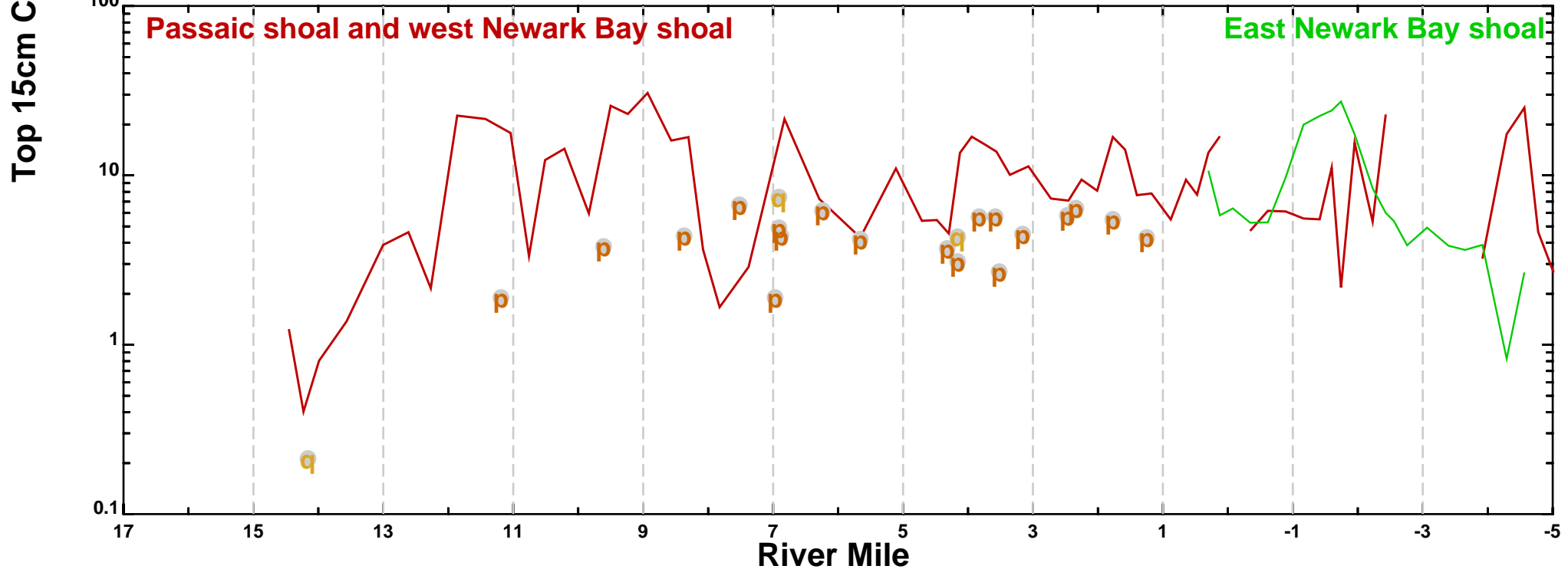
Year =2010.0

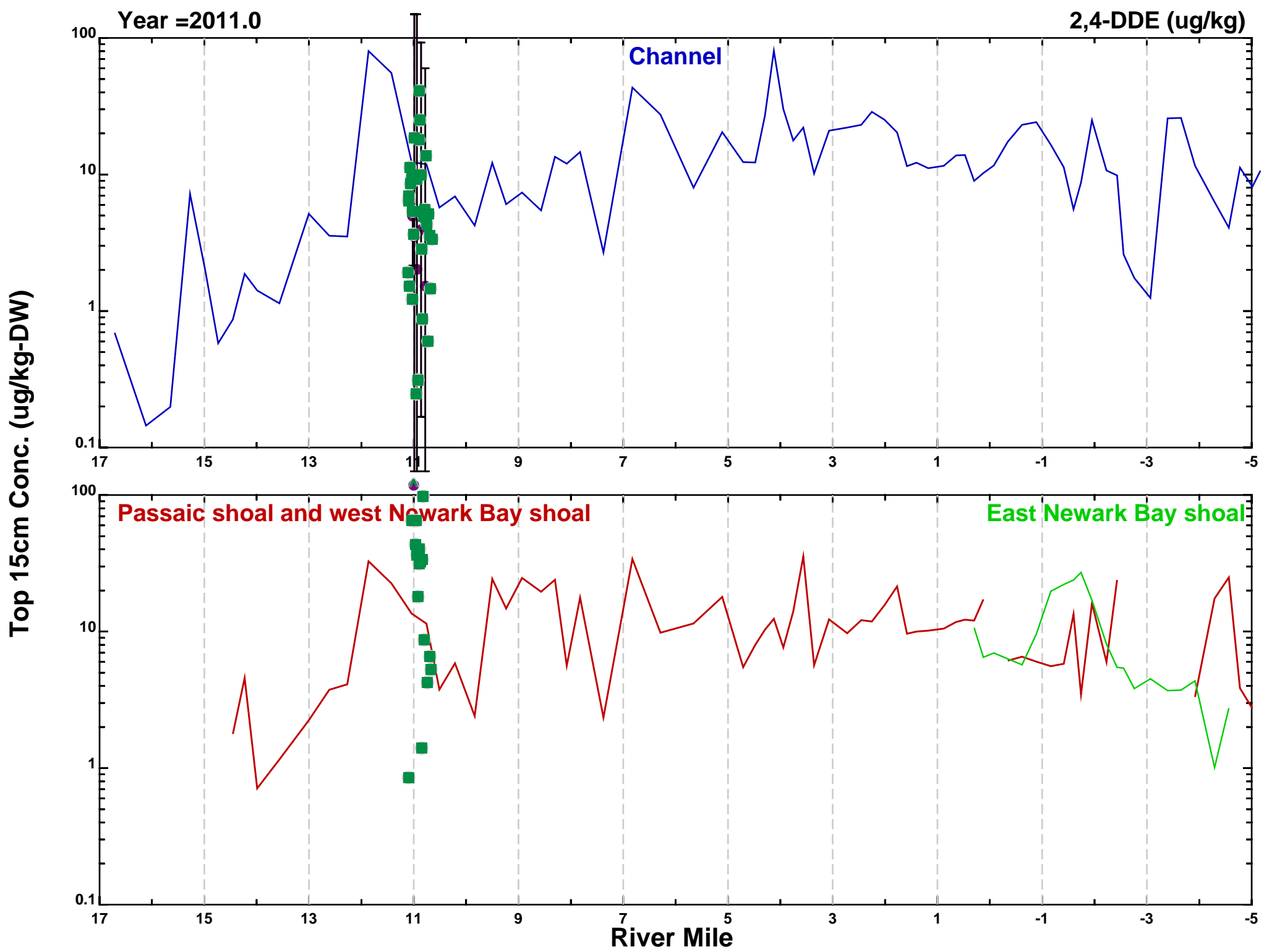
2,4-DDE (ug/kg)

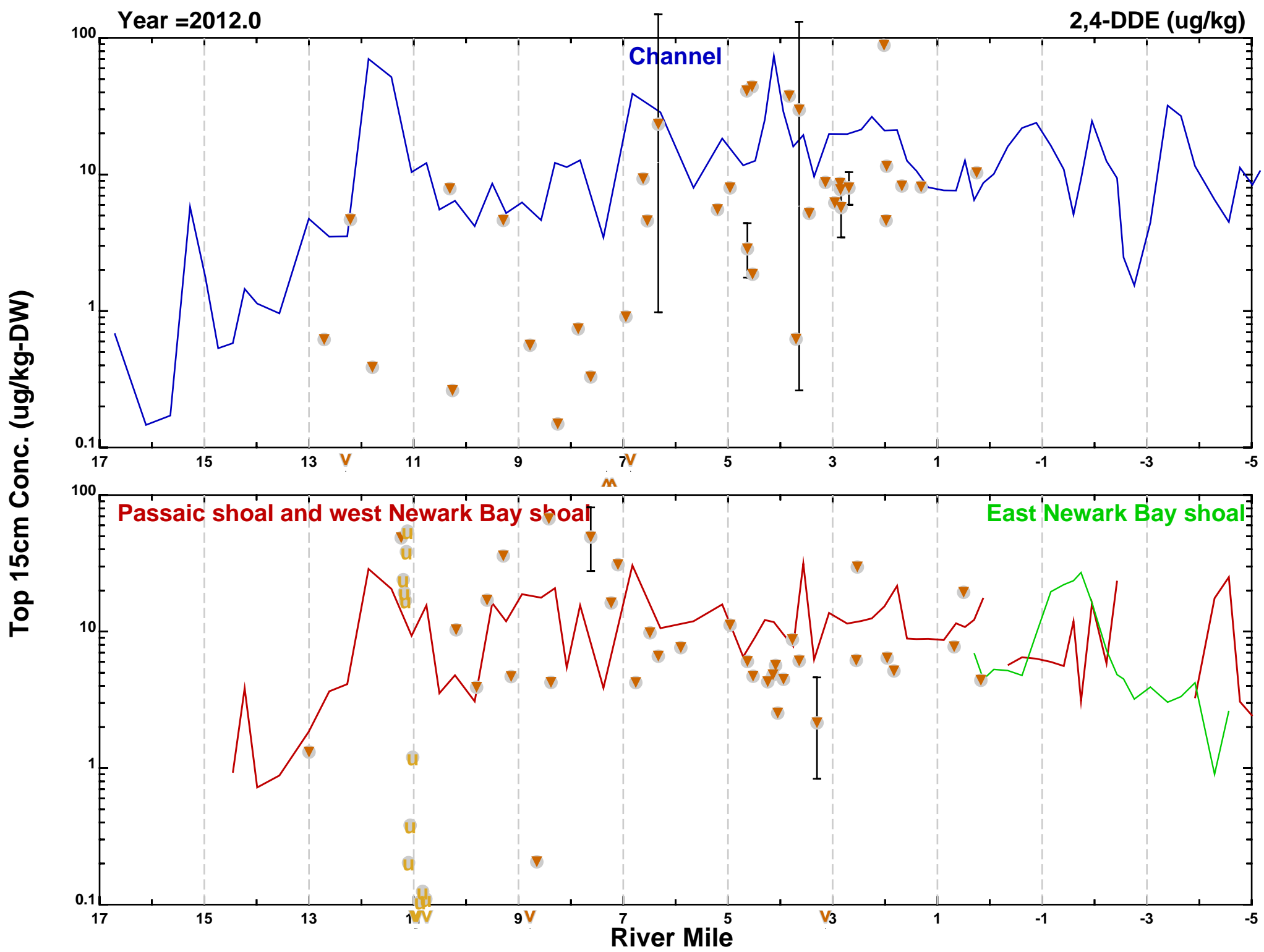


Passaic shoal and west Newark Bay shoal

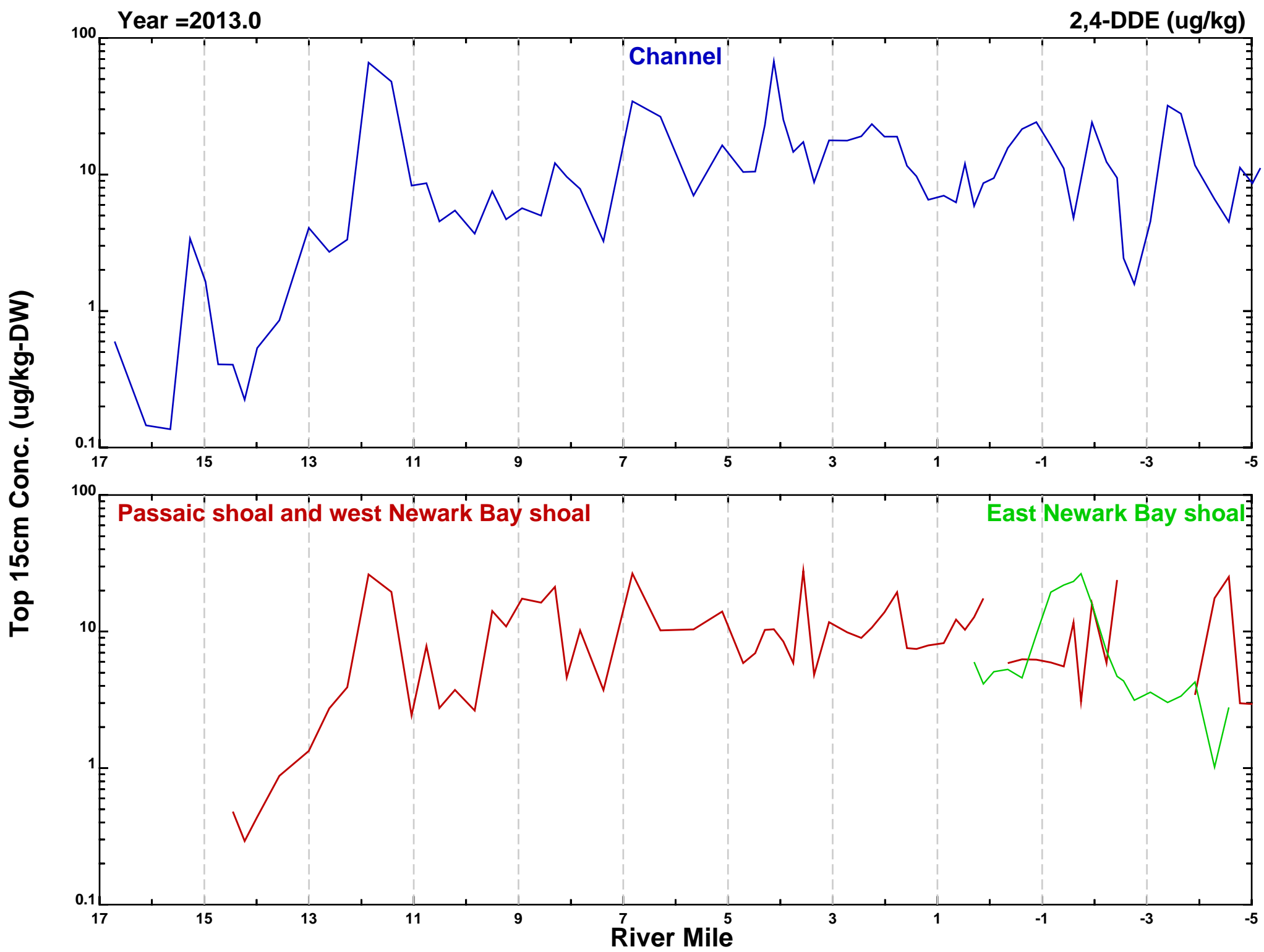
East Newark Bay shoal

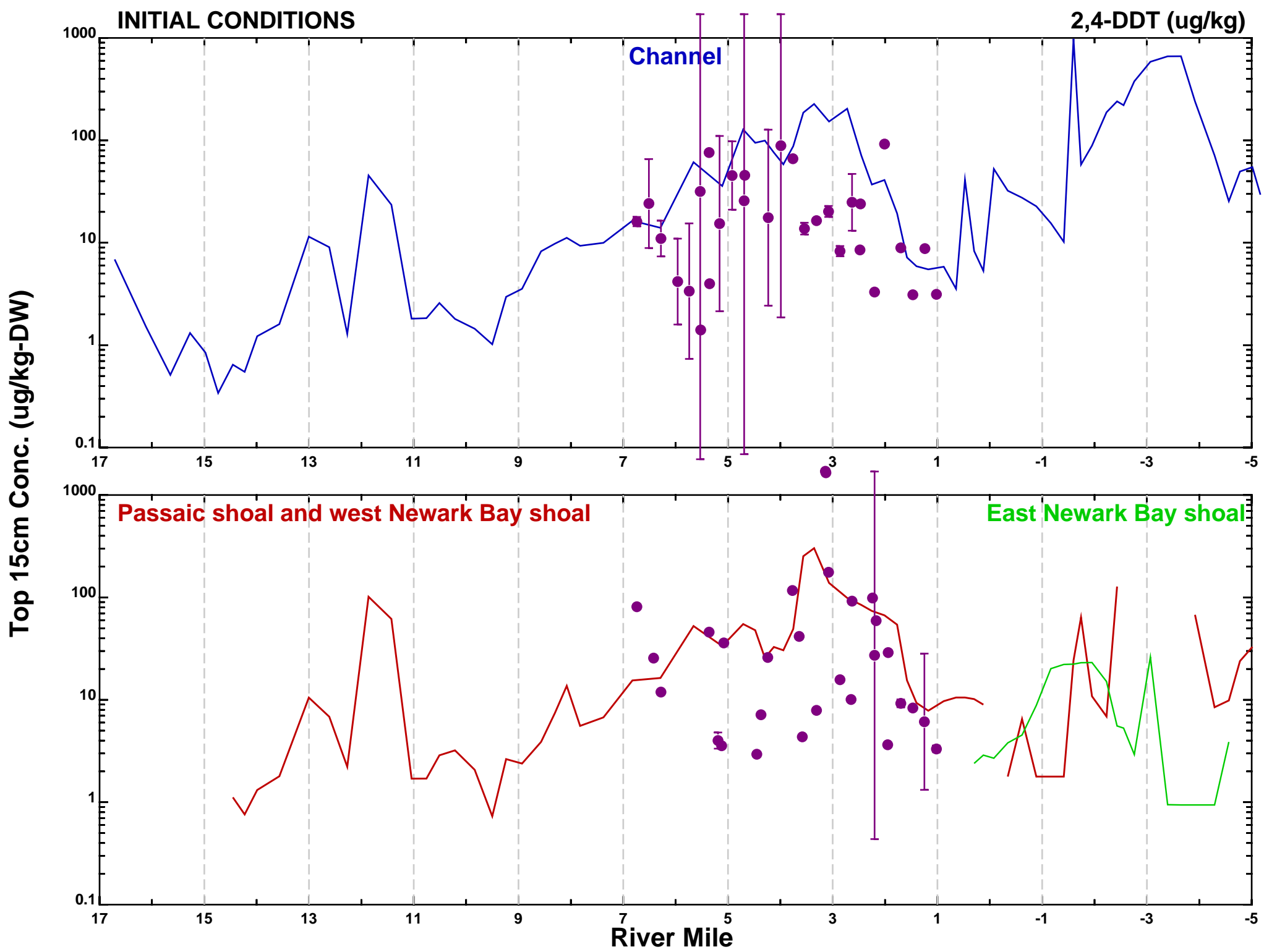












Year = 1996.0

2,4-DDT (ug/kg)

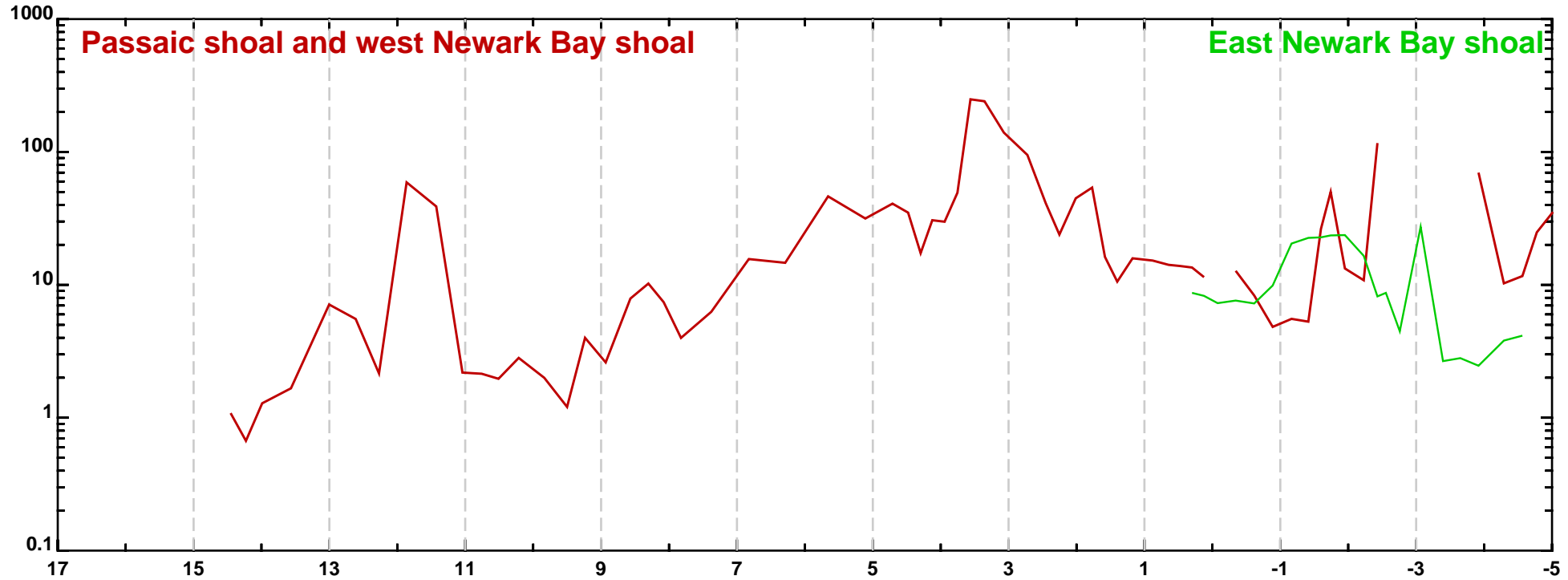
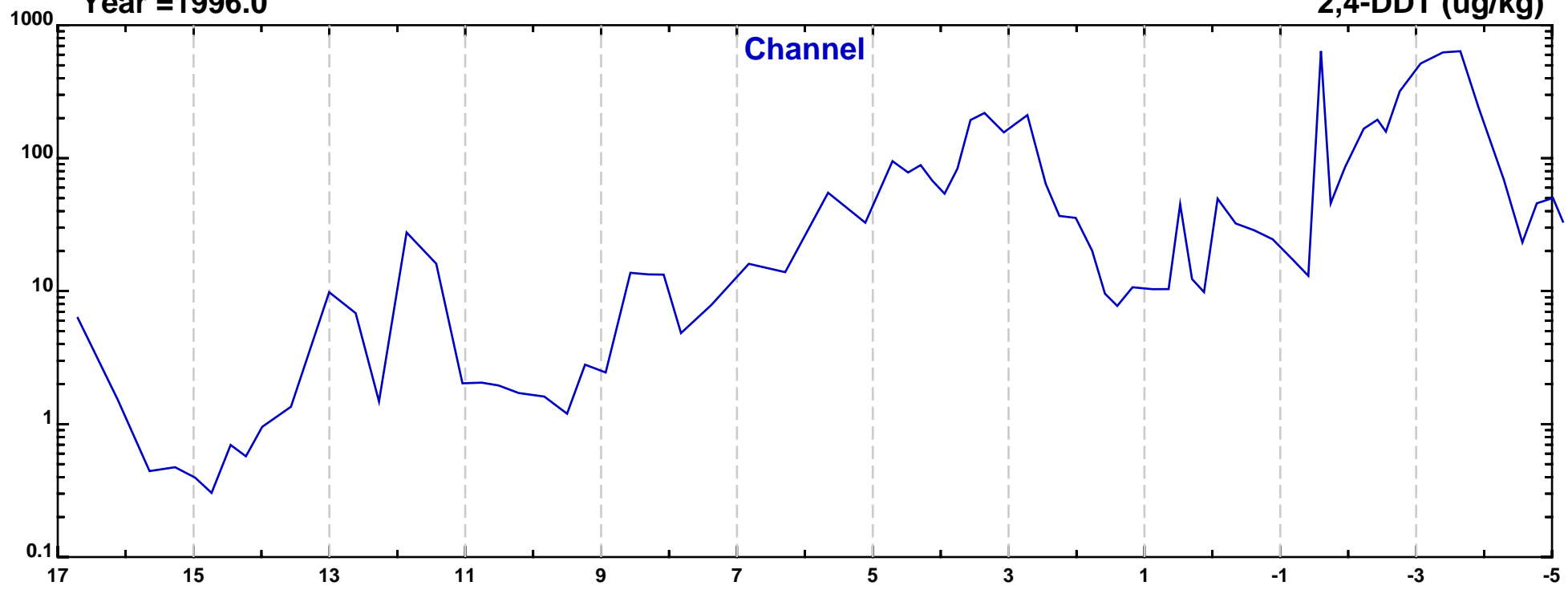
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile



Year = 1997.0

2,4-DDT (ug/kg)

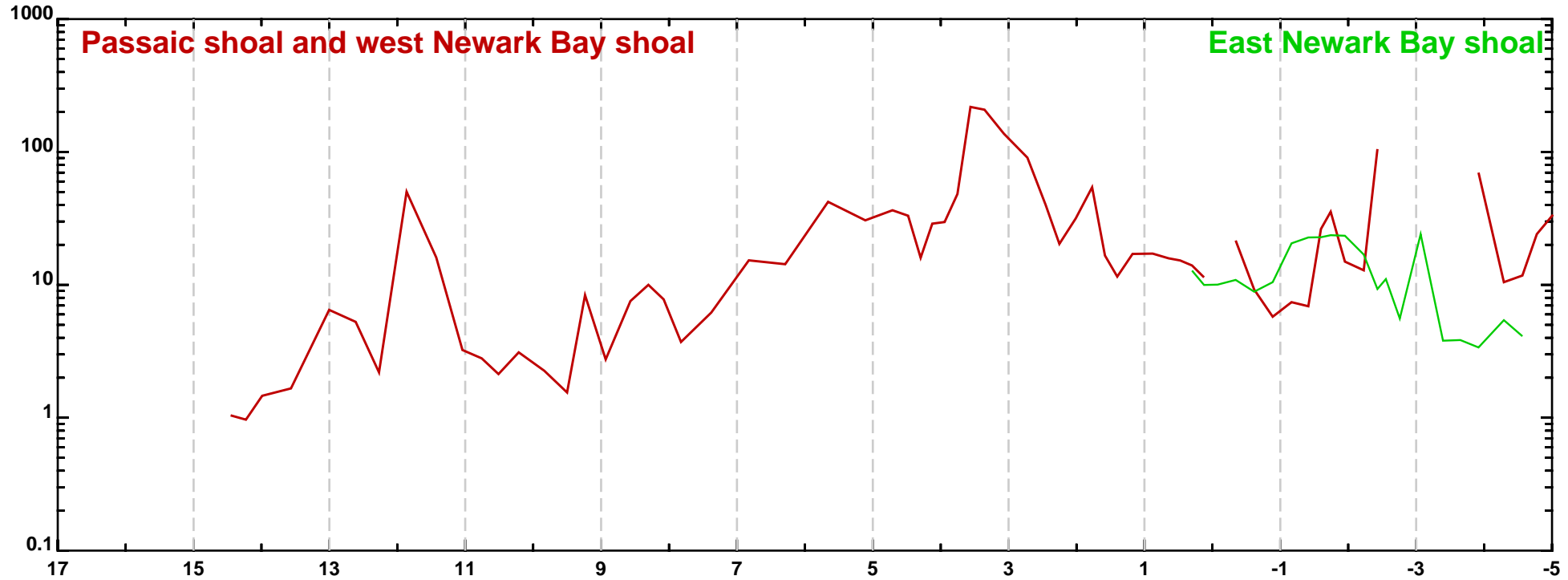
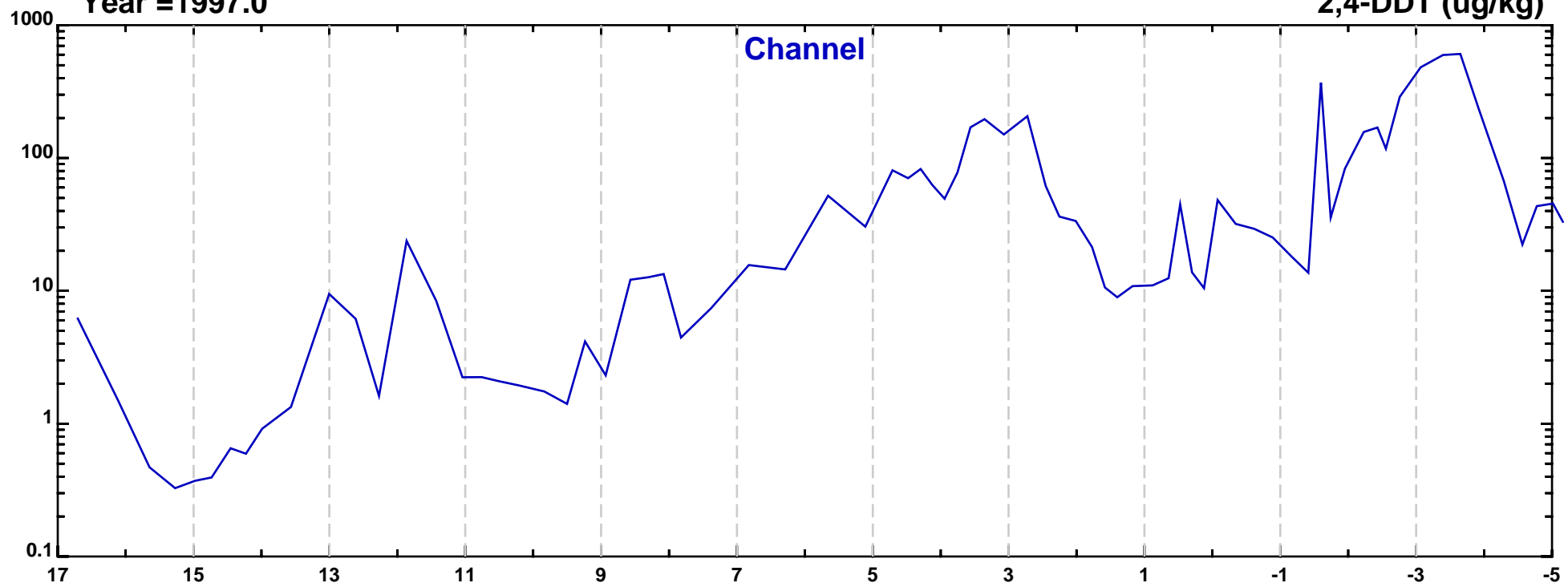
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

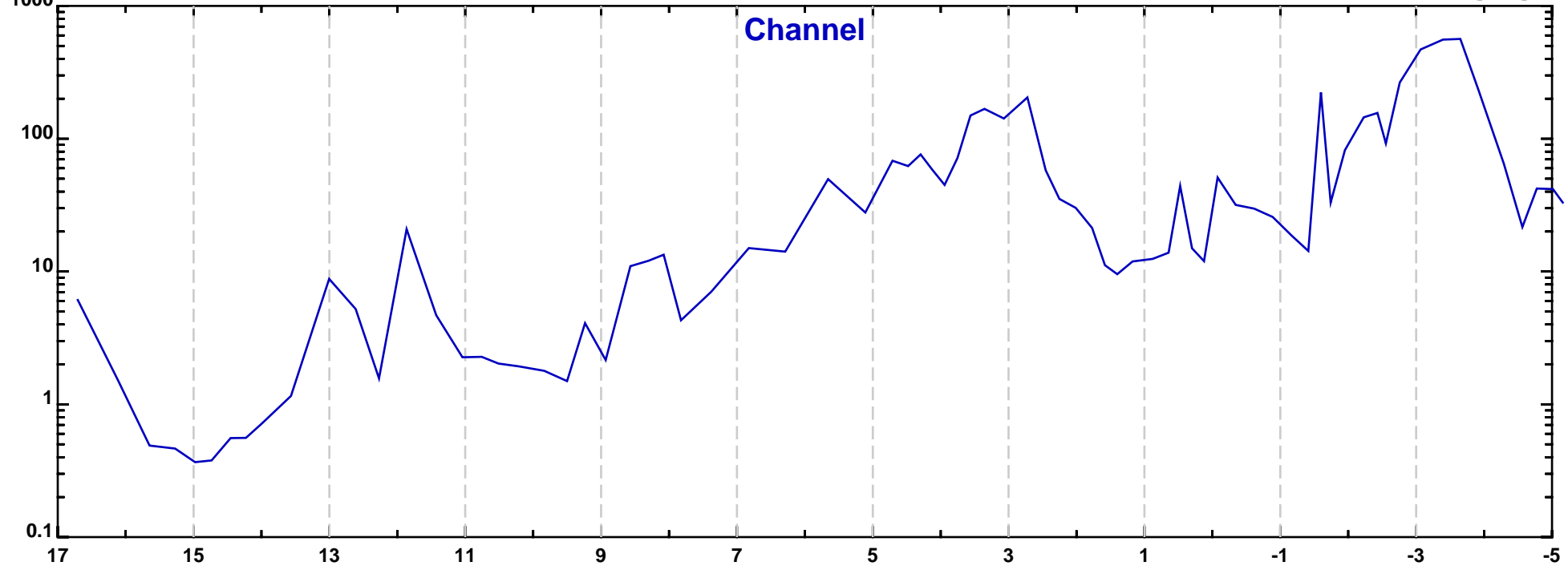
River Mile



Year = 1998.0

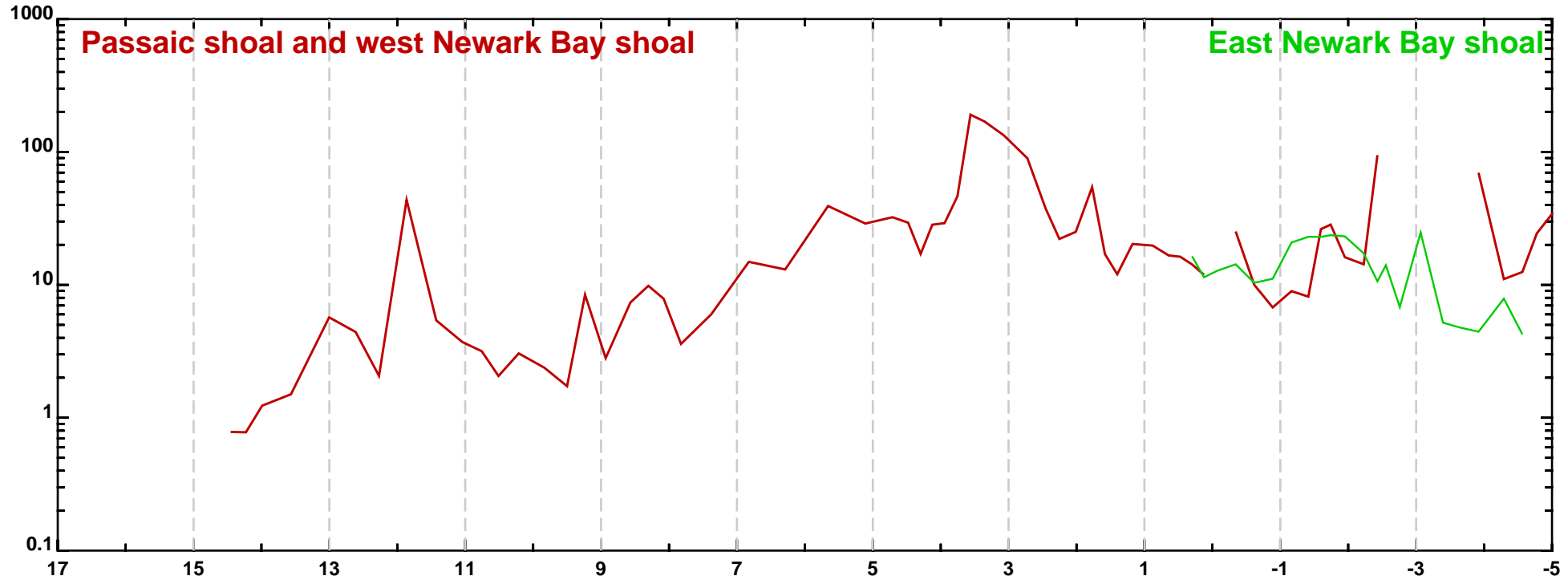
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

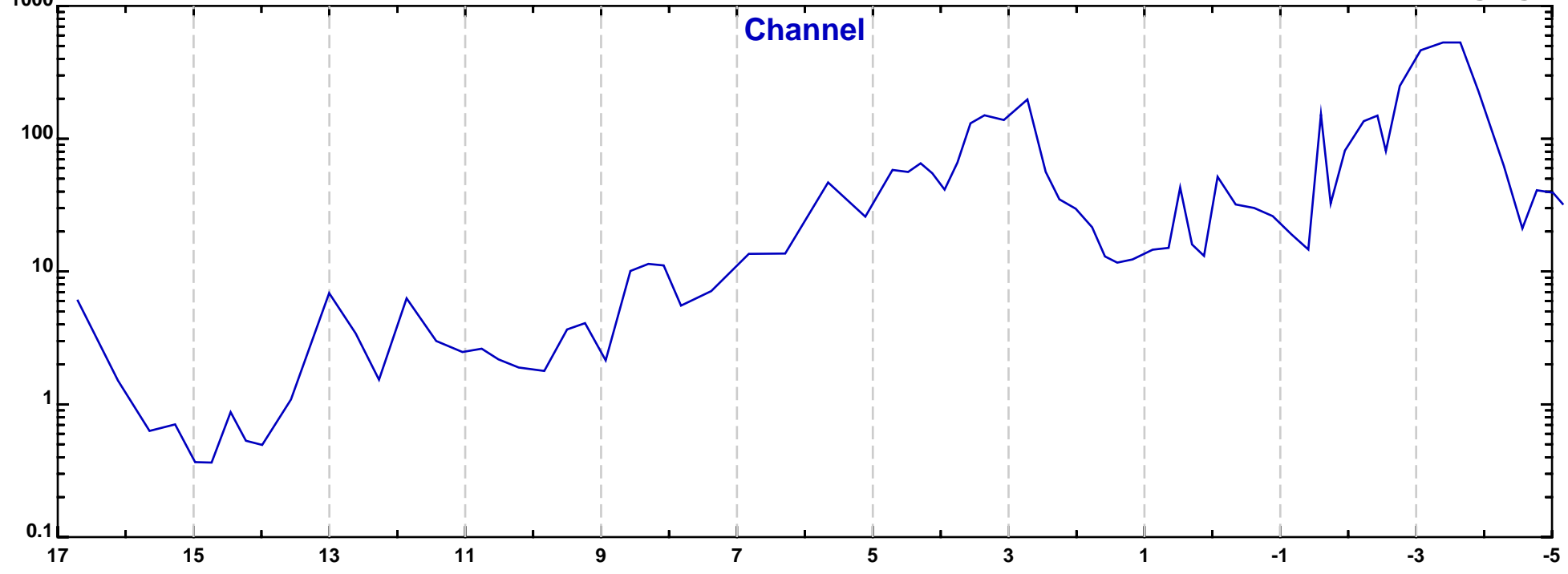


River Mile

Year = 1999.0

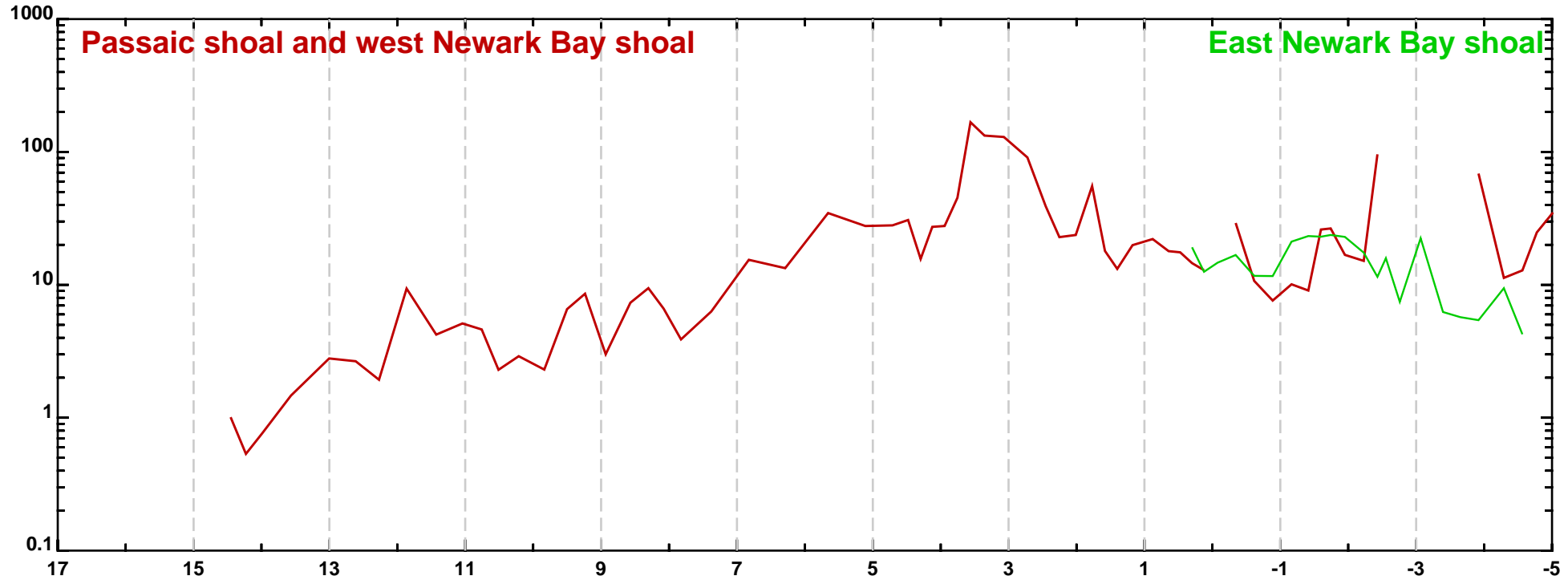
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)

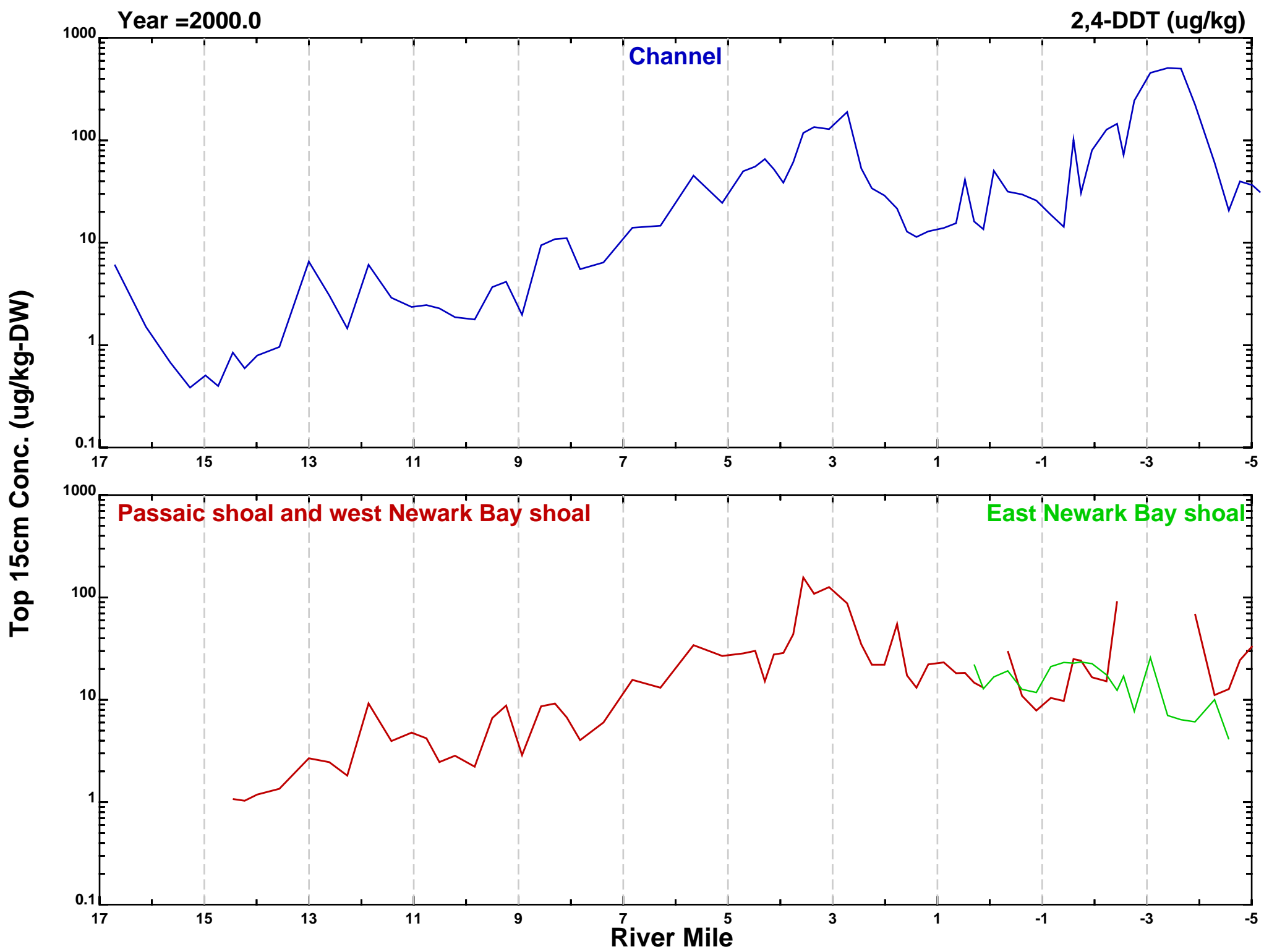


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



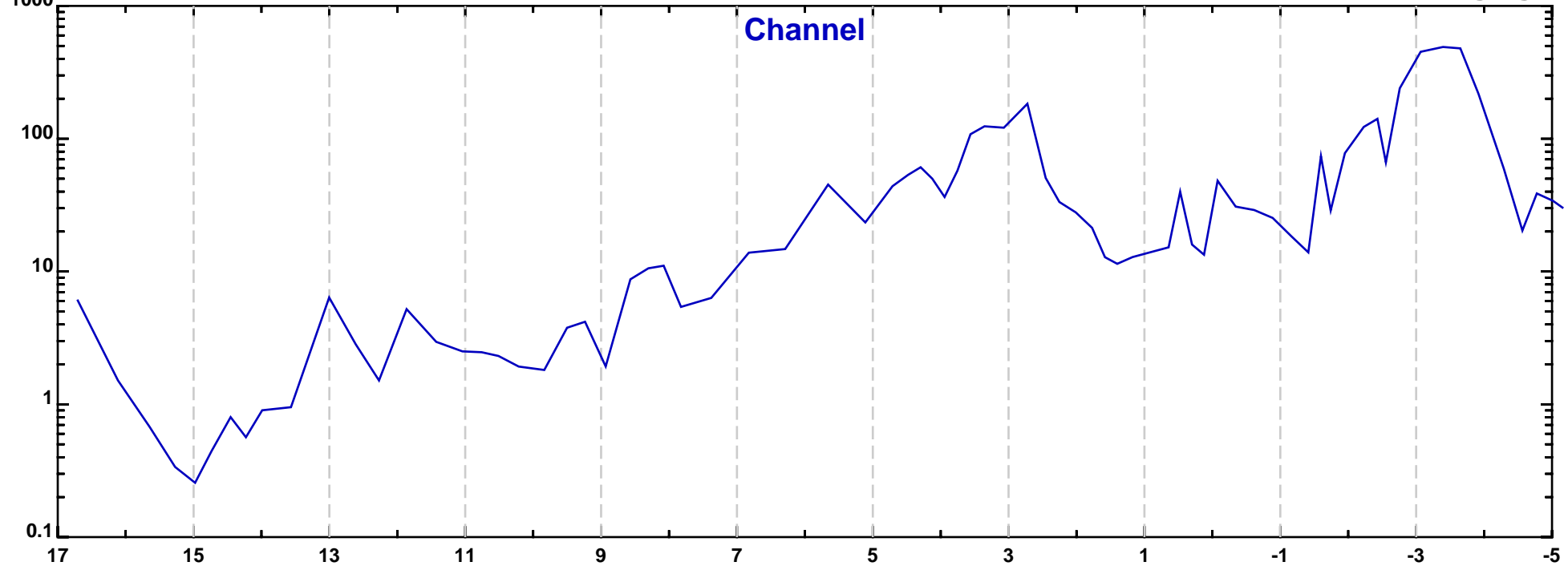
River Mile



Year = 2001.0

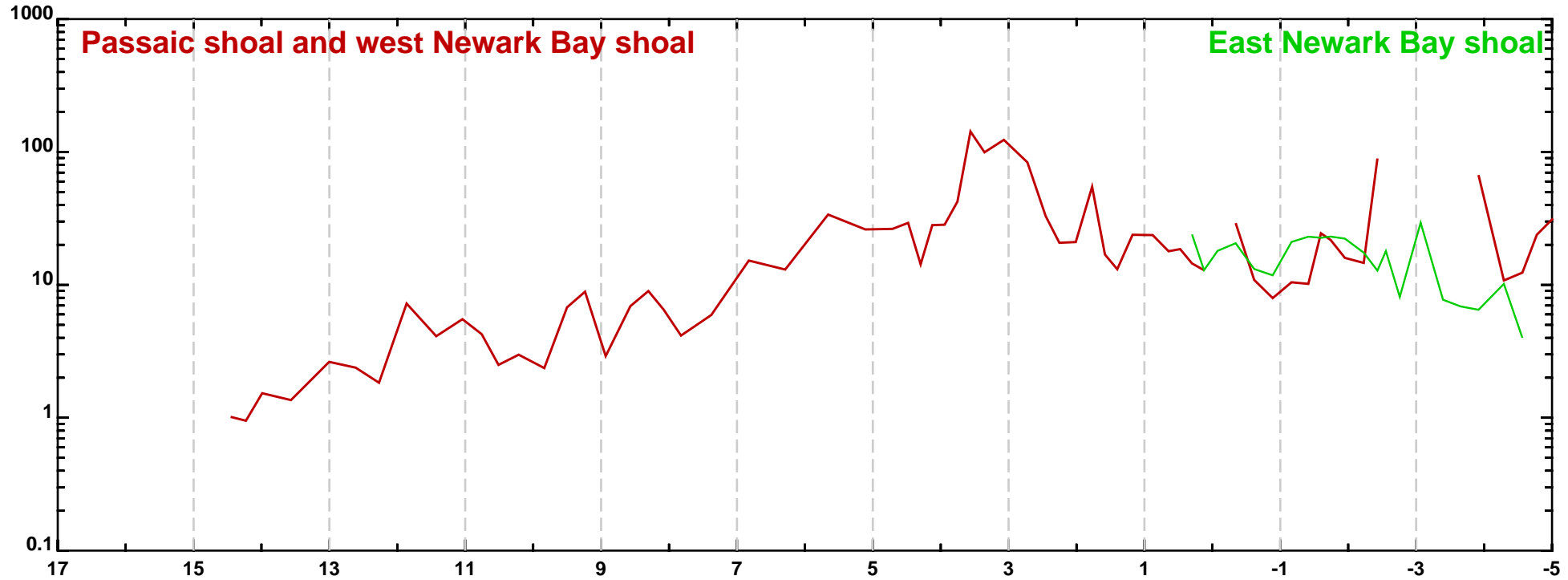
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



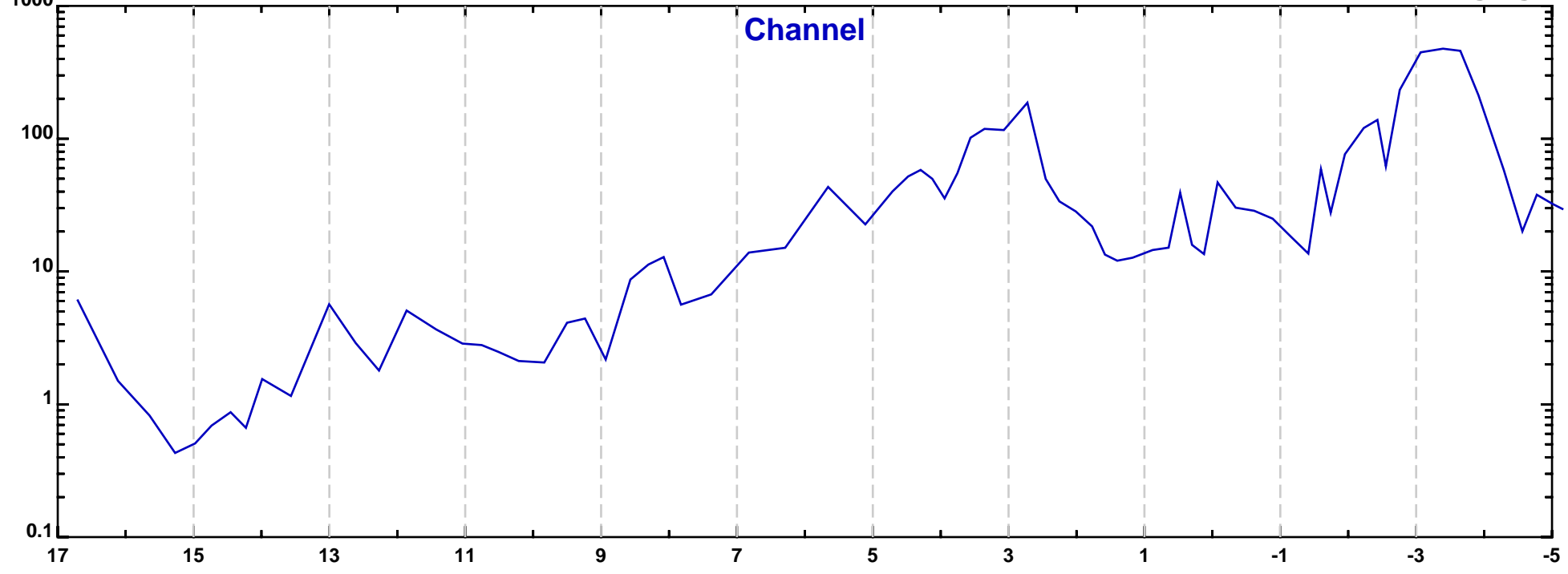
River Mile



Year = 2002.0

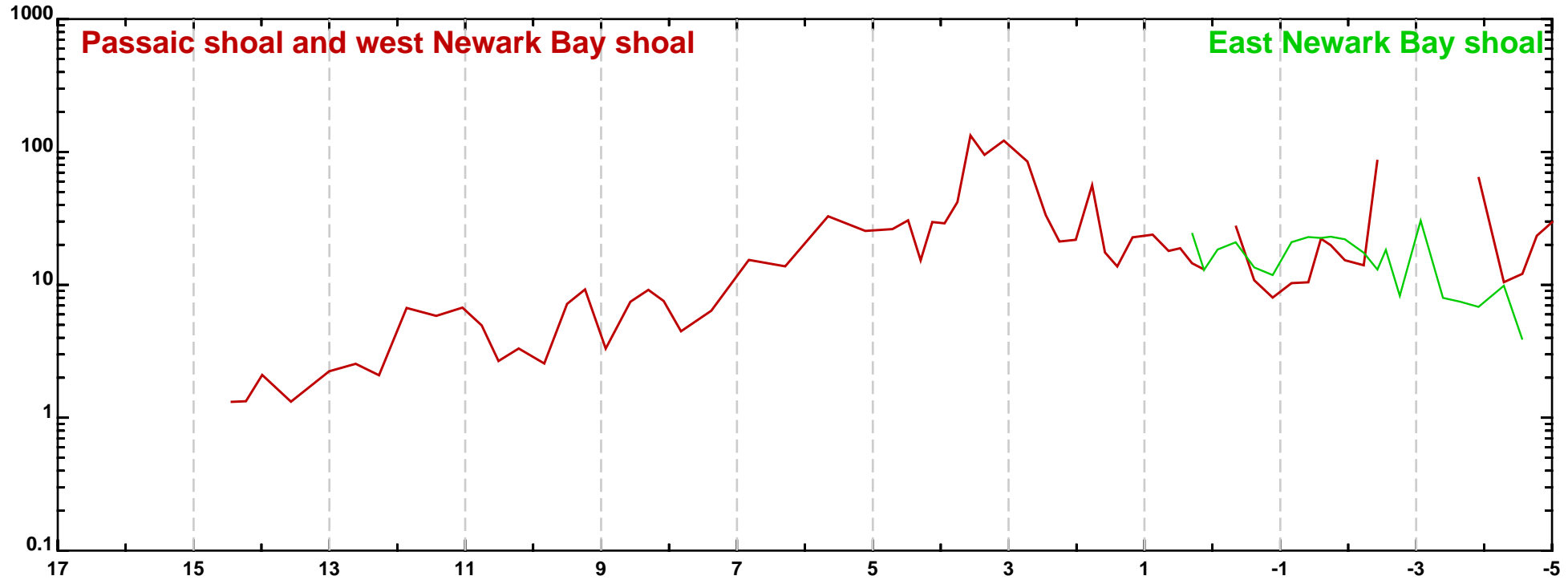
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2003.0

2,4-DDT (ug/kg)

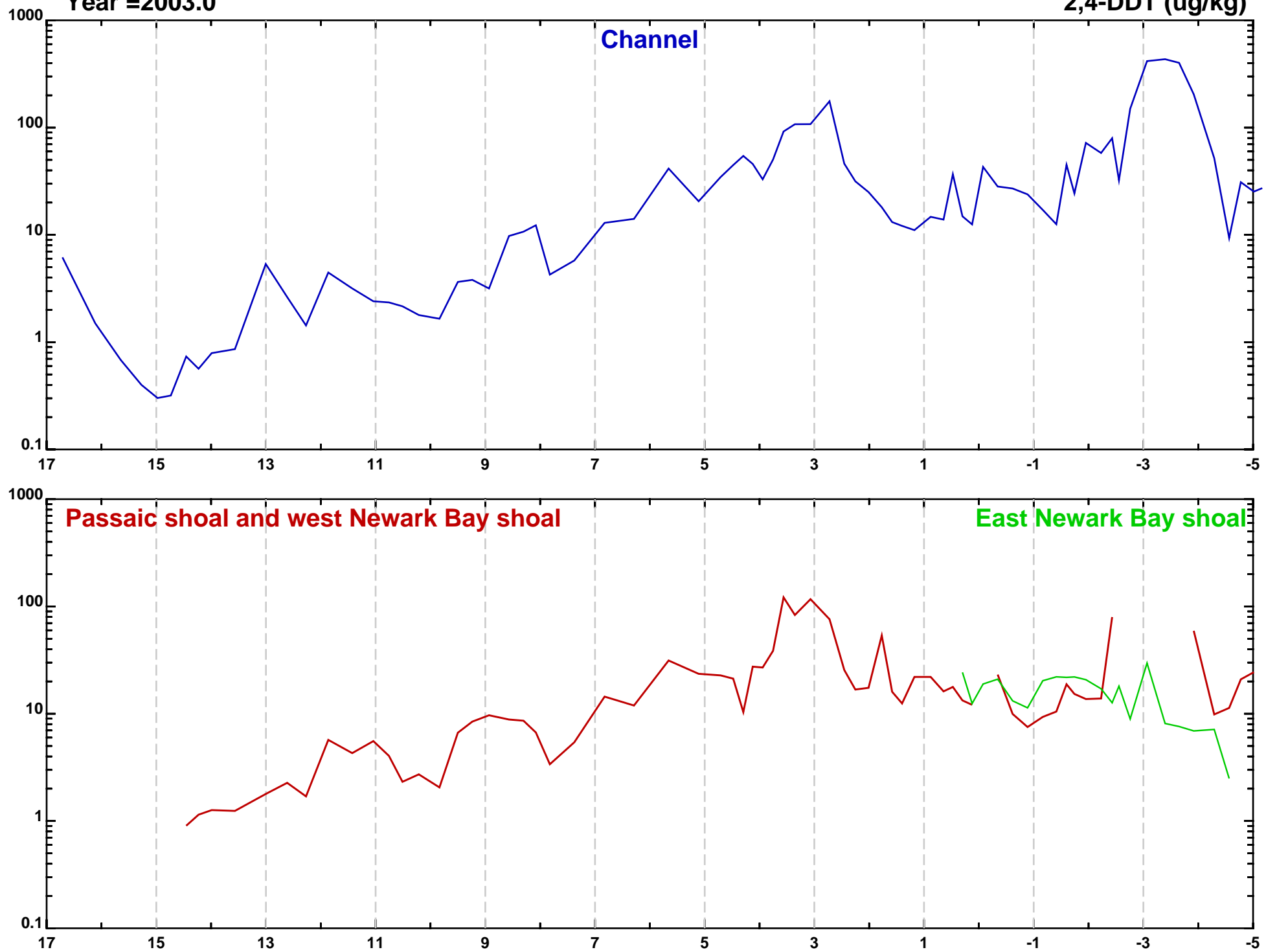
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile



Year = 2004.0

2,4-DDT (ug/kg)

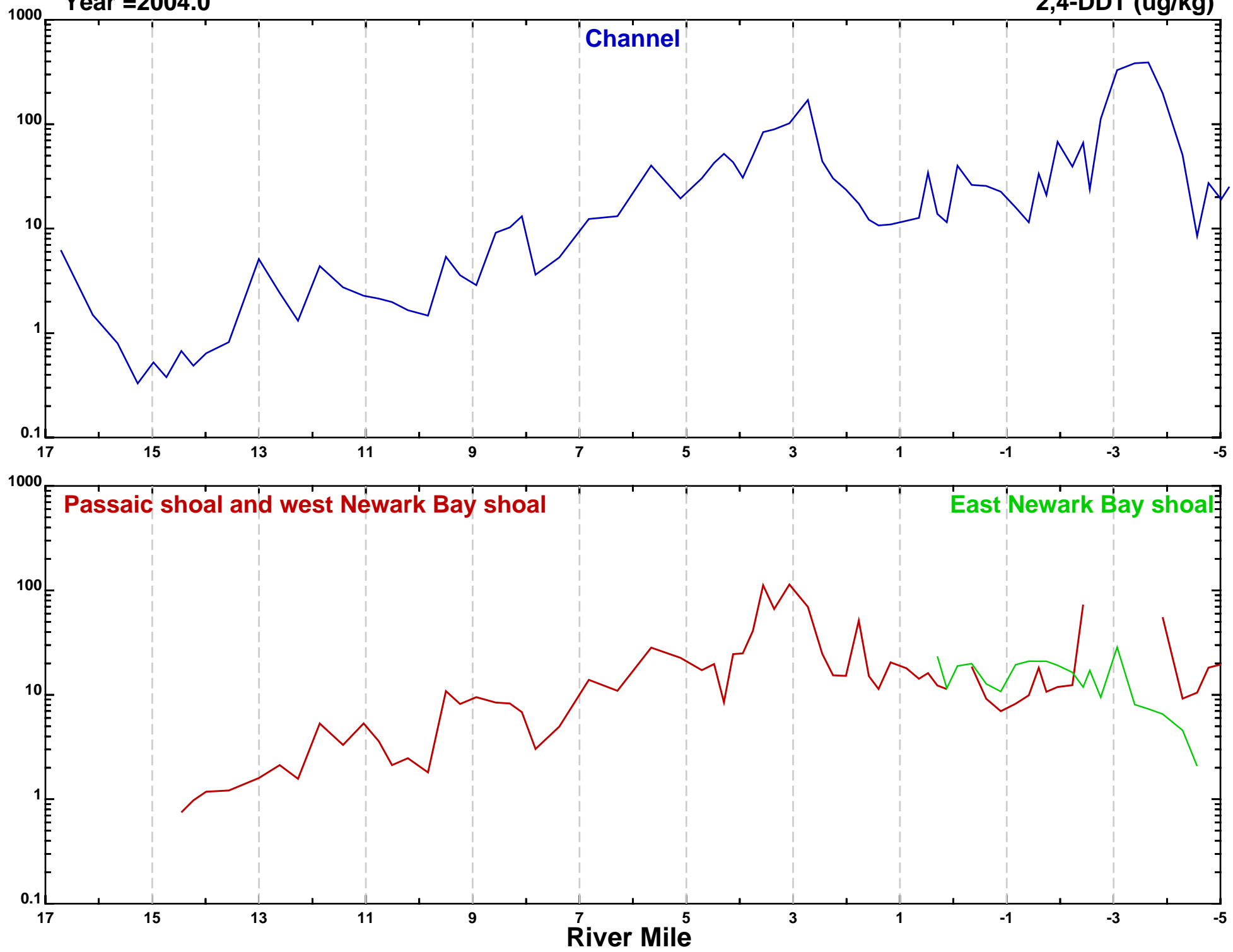
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

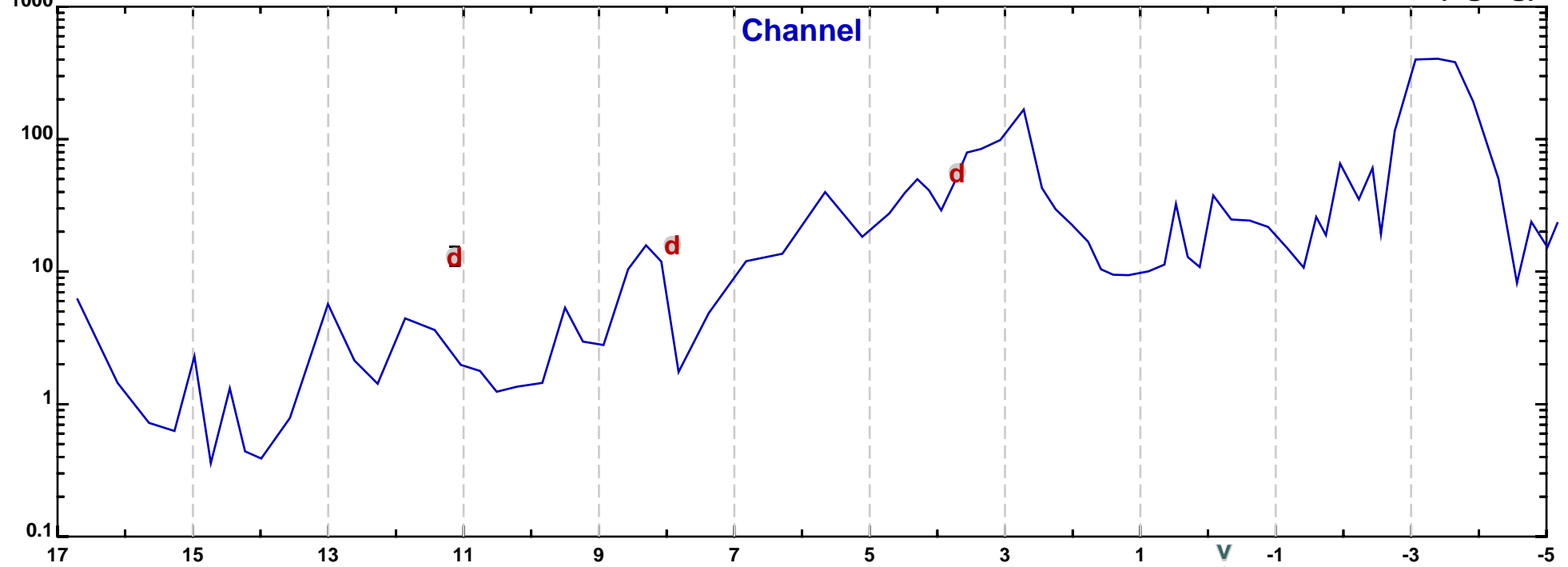
River Mile



Year =2005.0

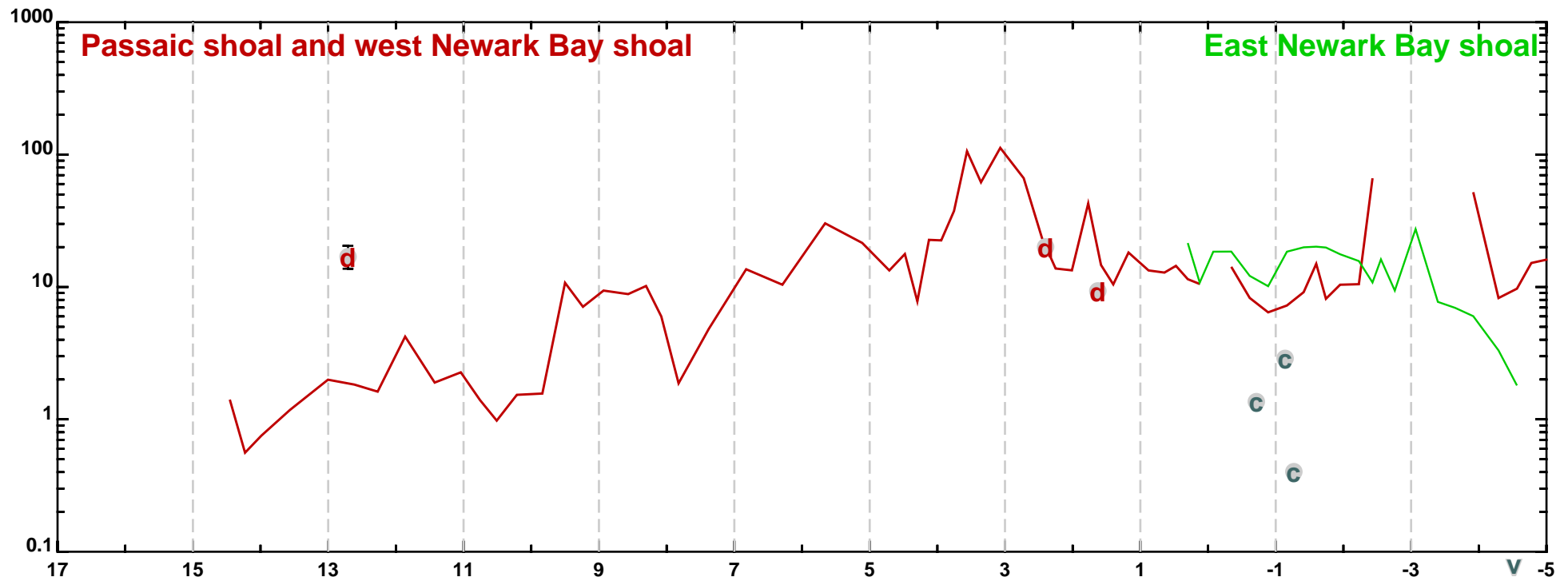
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

Year =2006.0

2,4-DDT (ug/kg)

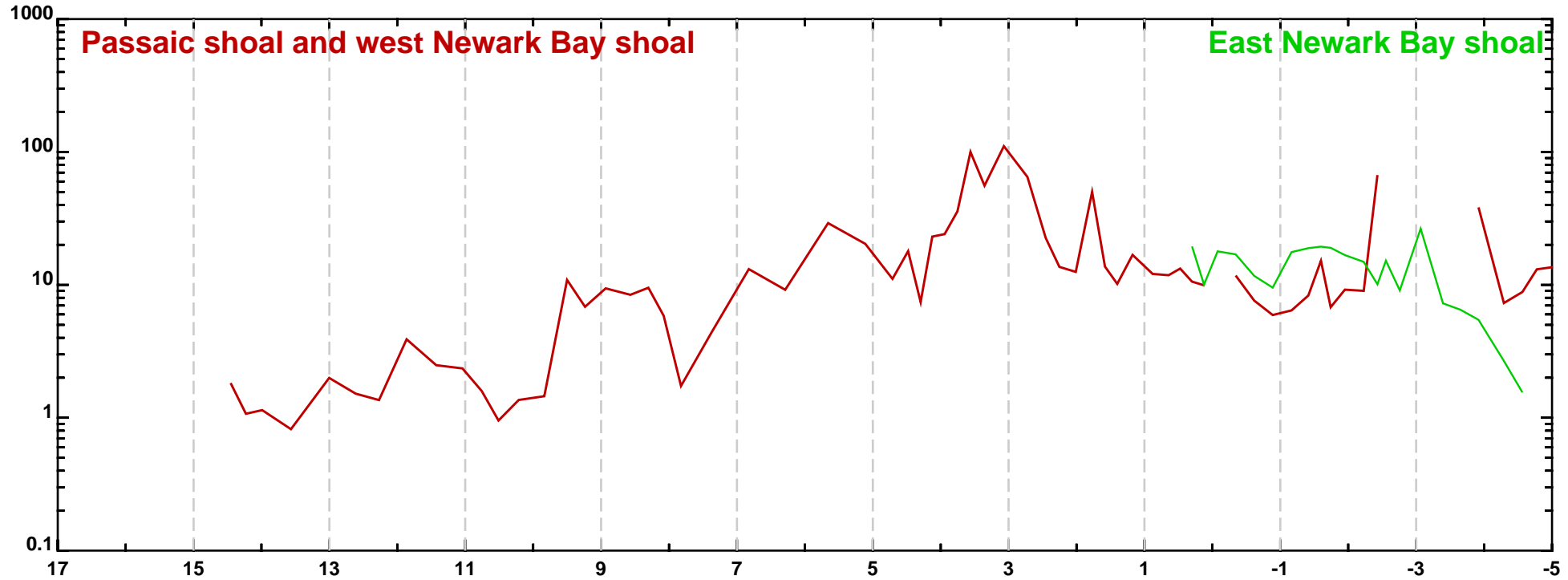
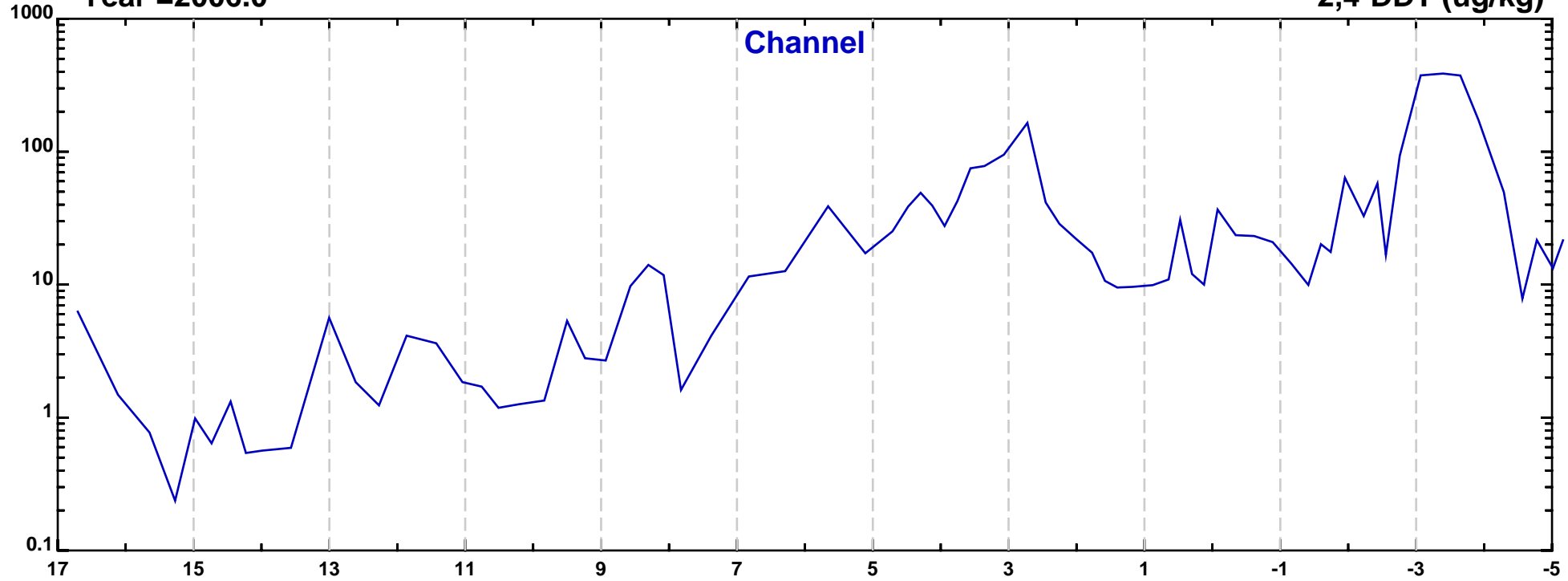
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

River Mile

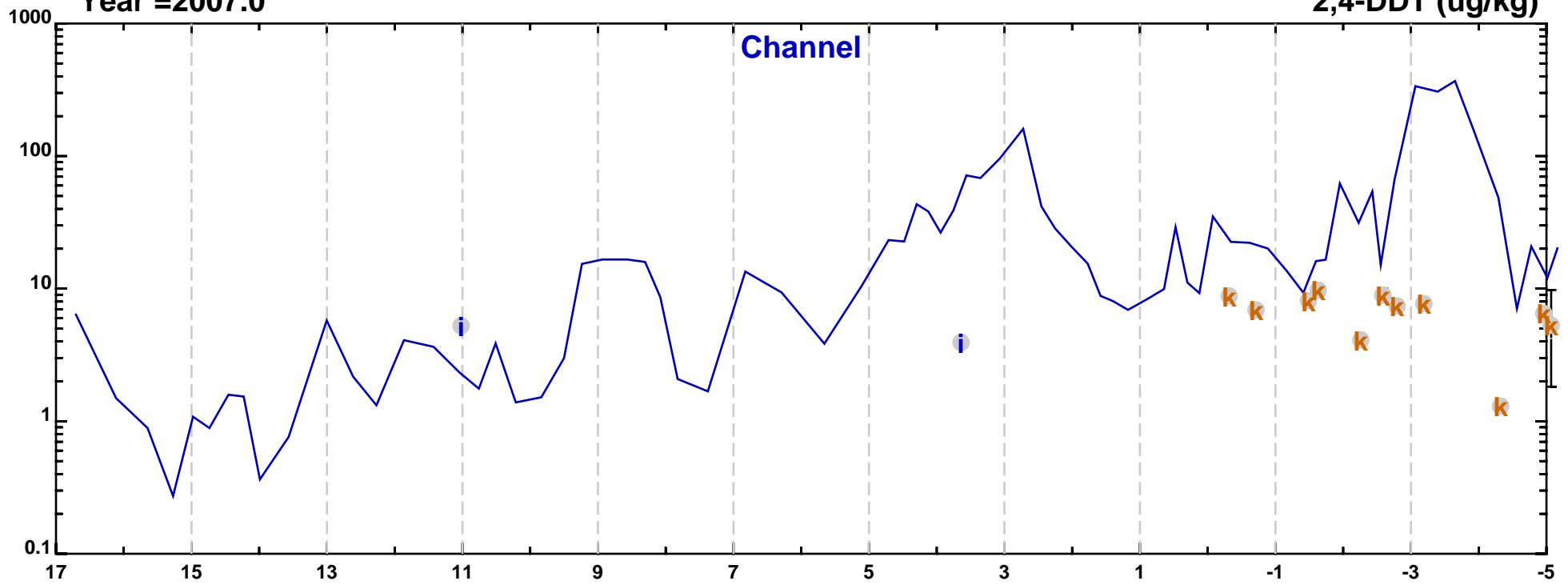


Year =2007.0

2,4-DDT (ug/kg)

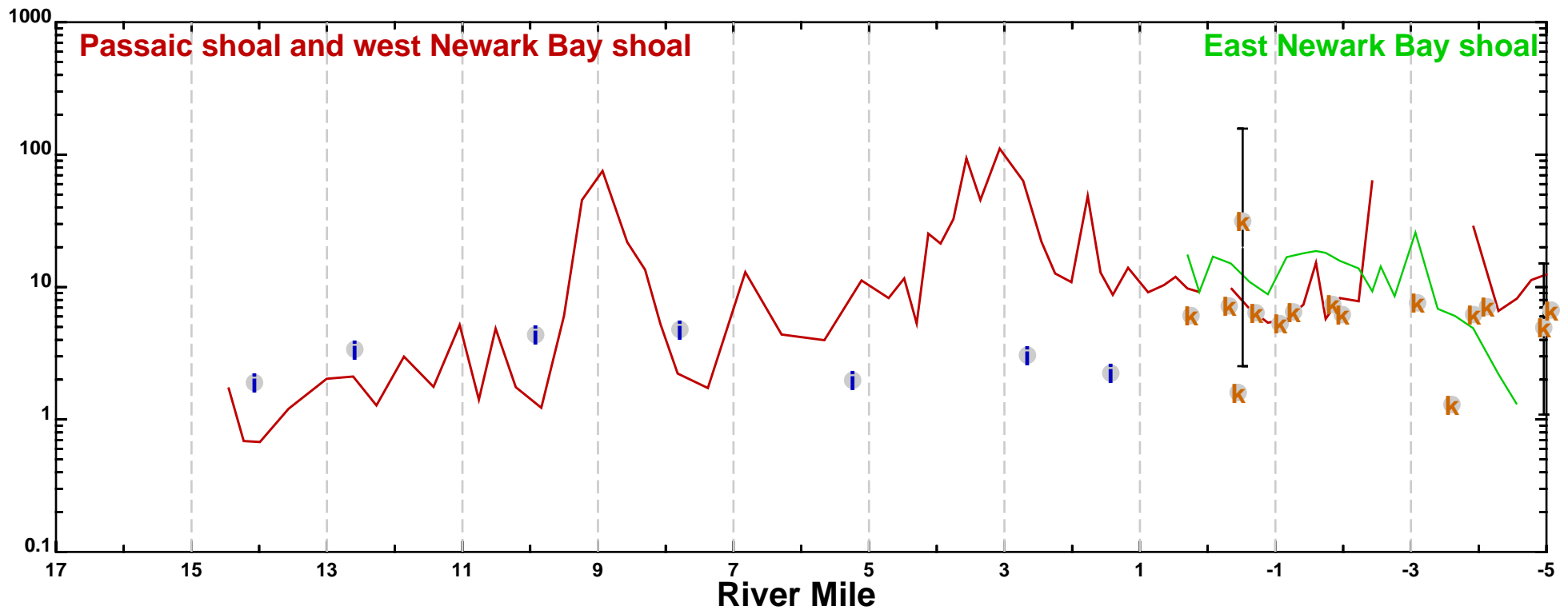
Top 15cm Conc. (ug/kg-DW)

Channel



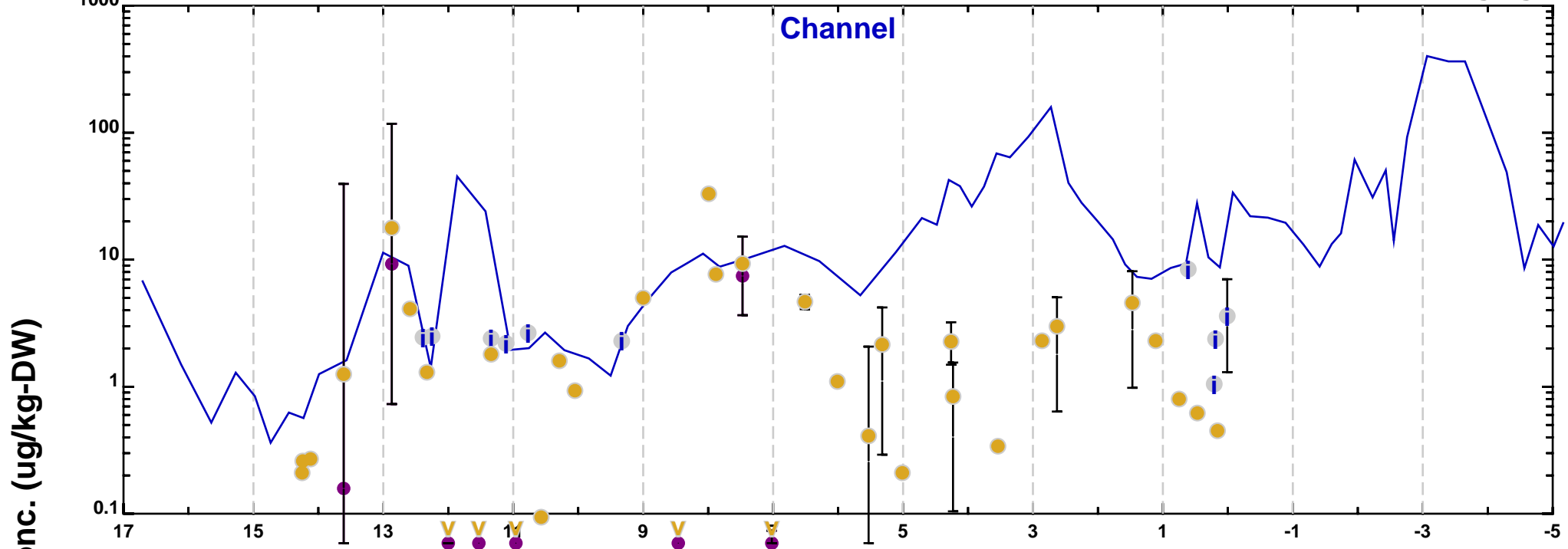
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



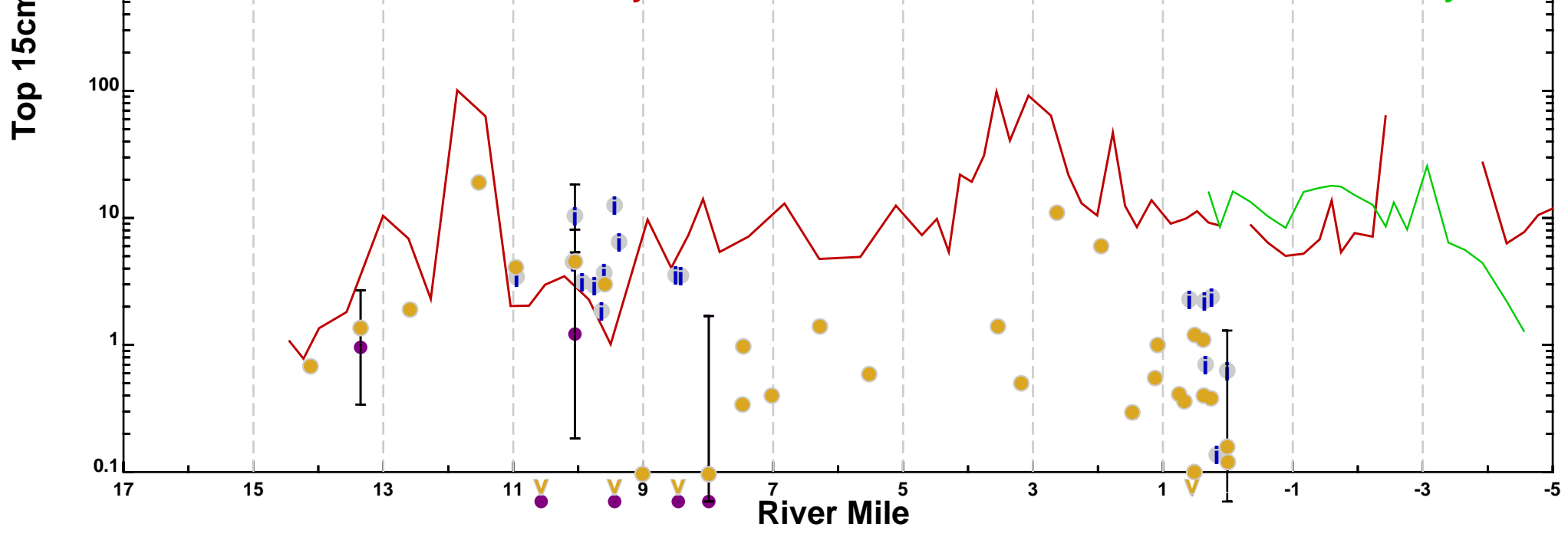
Year = 2008.0

2,4-DDT (ug/kg)



Passaic shoal and west Newark Bay shoal

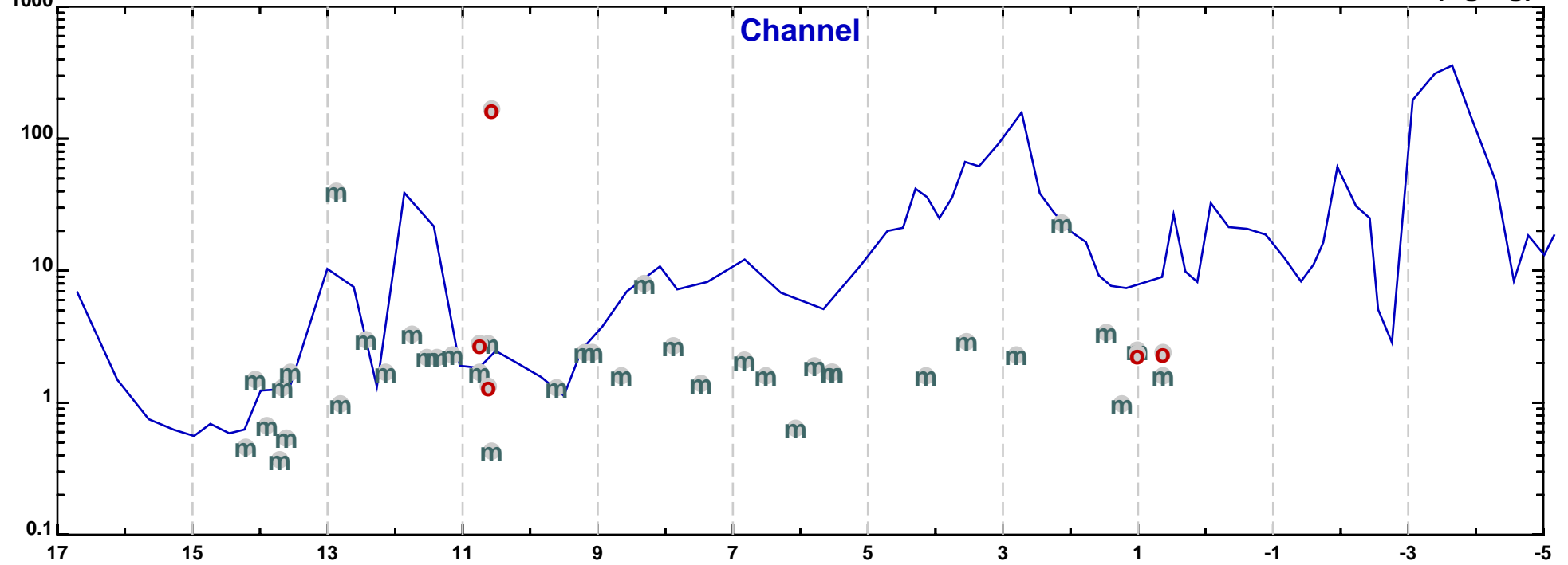
East Newark Bay shoal



Year =2009.0

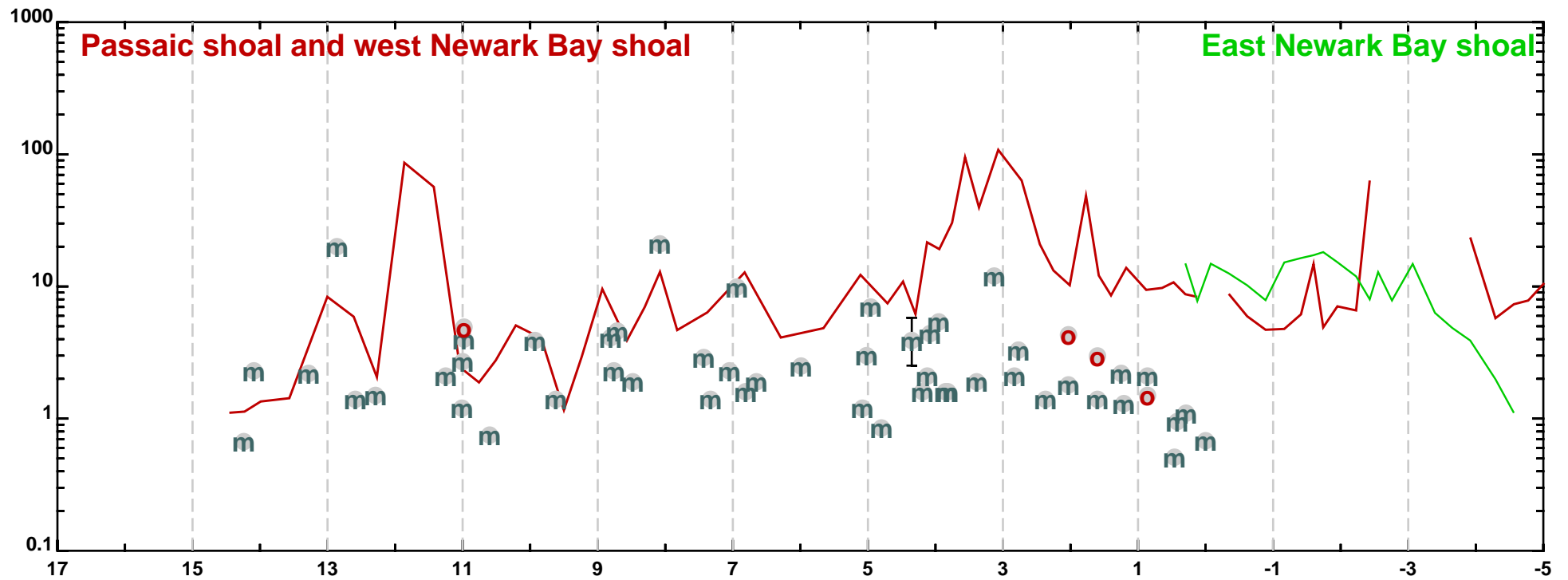
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



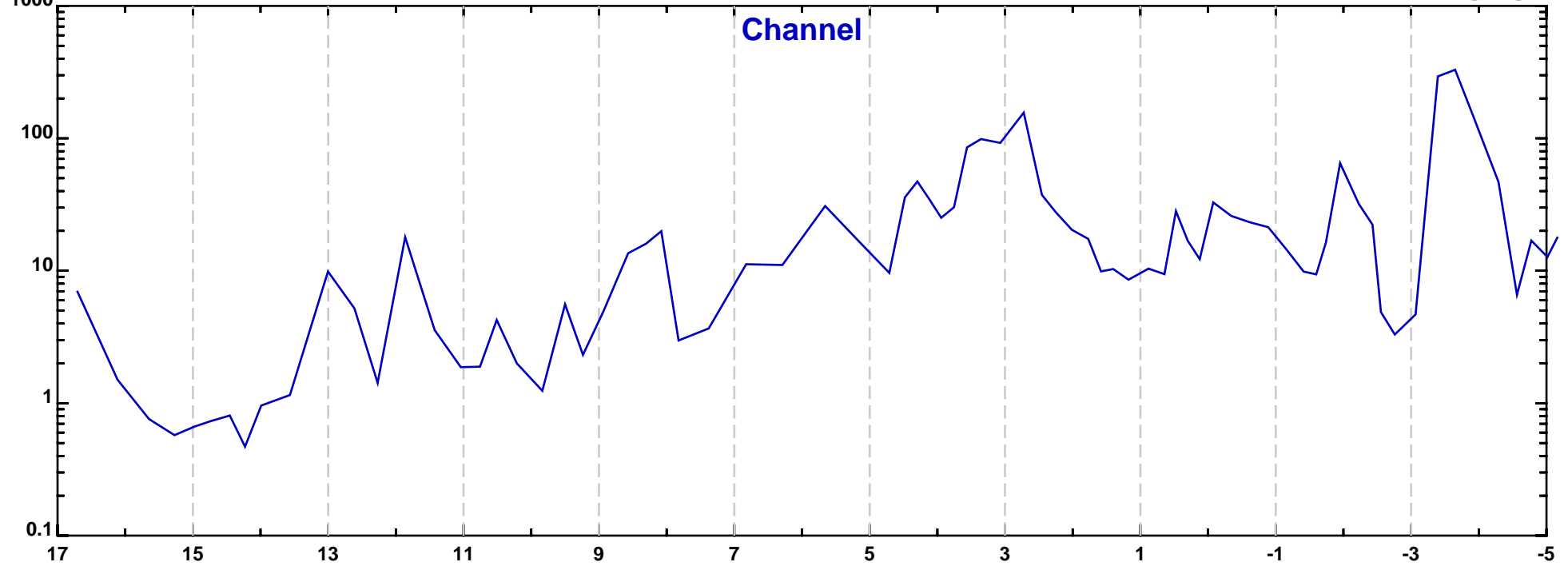
River Mile



Year = 2010.0

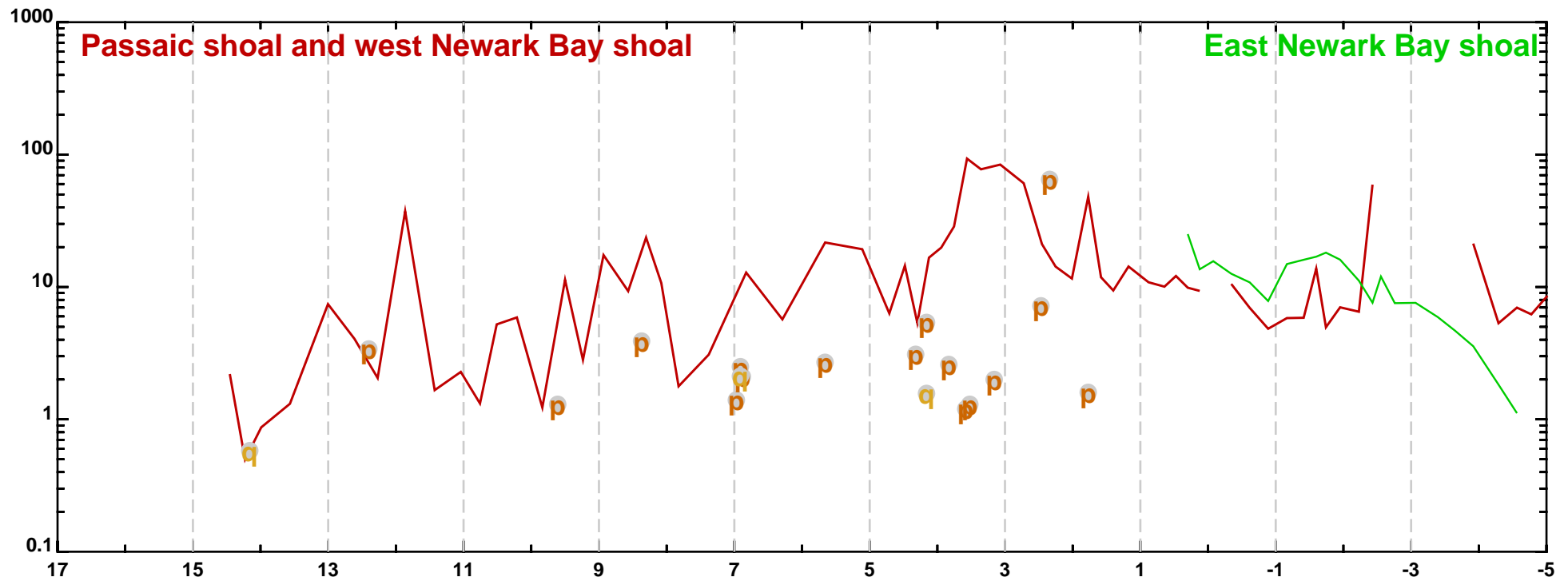
2,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



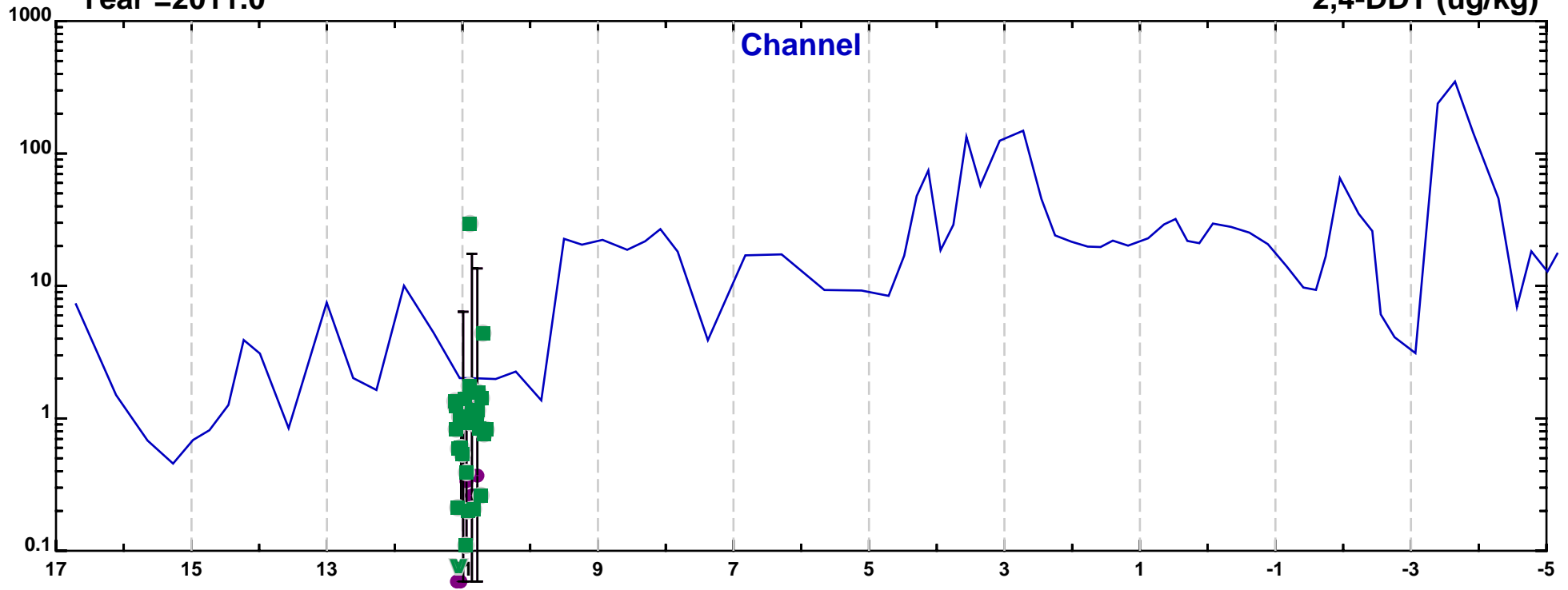
River Mile

Year =2011.0

2,4-DDT (ug/kg)

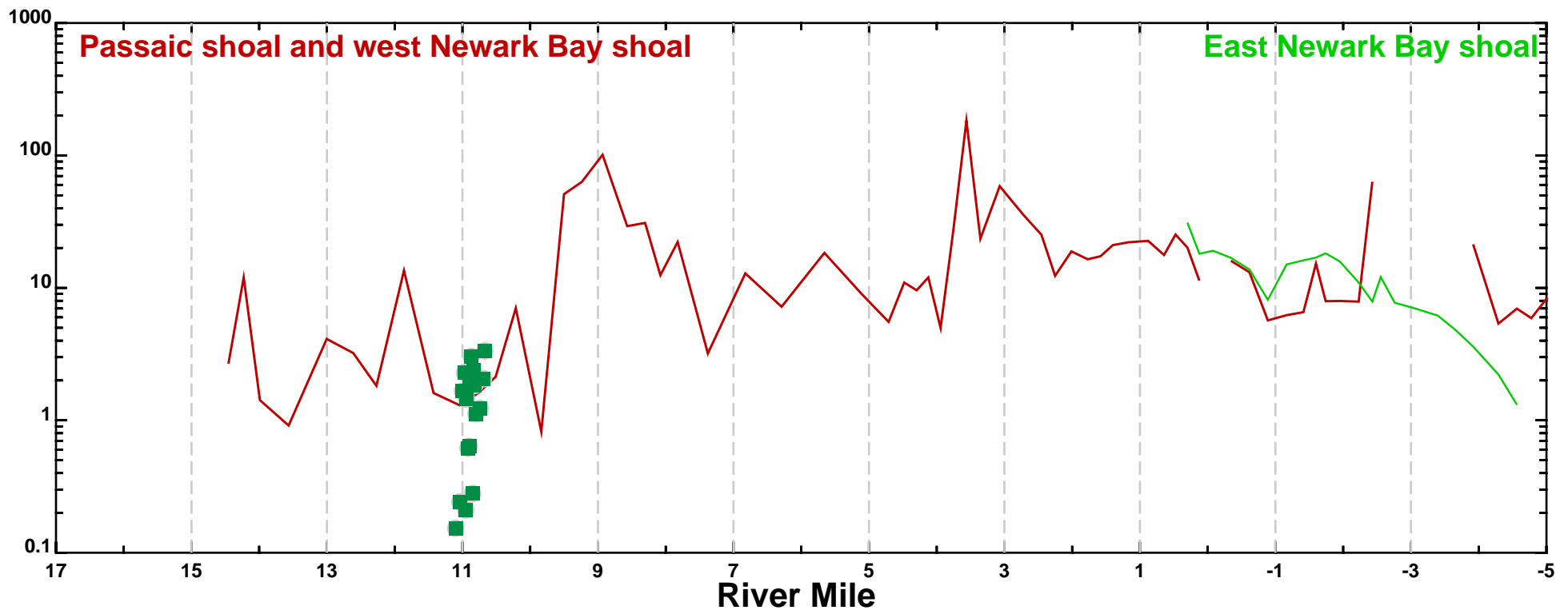
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



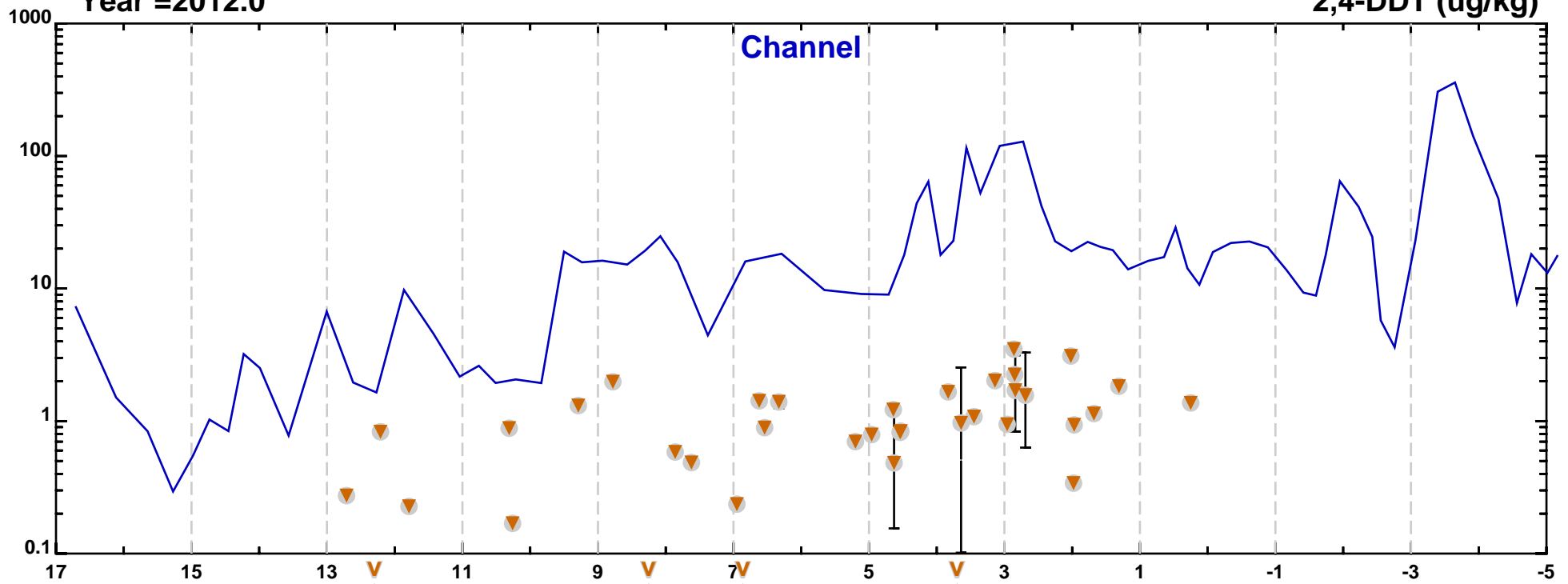
River Mile

Year = 2012.0

2,4-DDT (ug/kg)

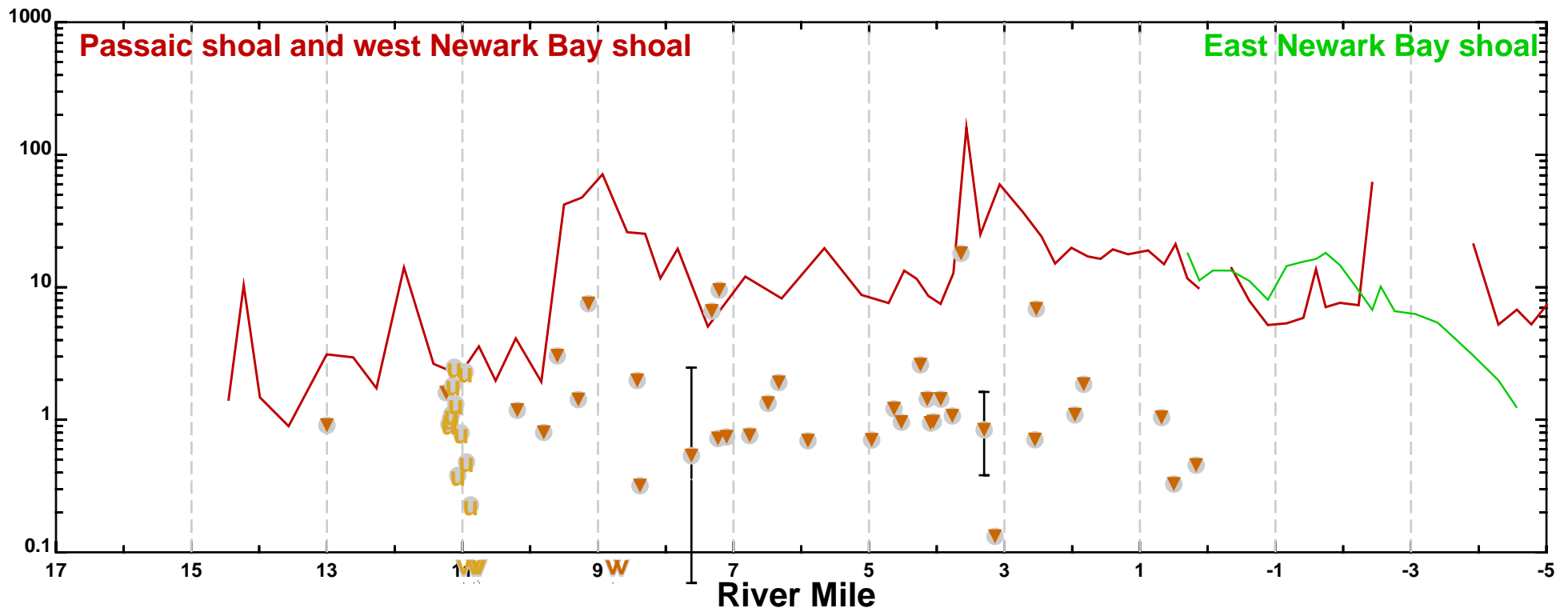
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

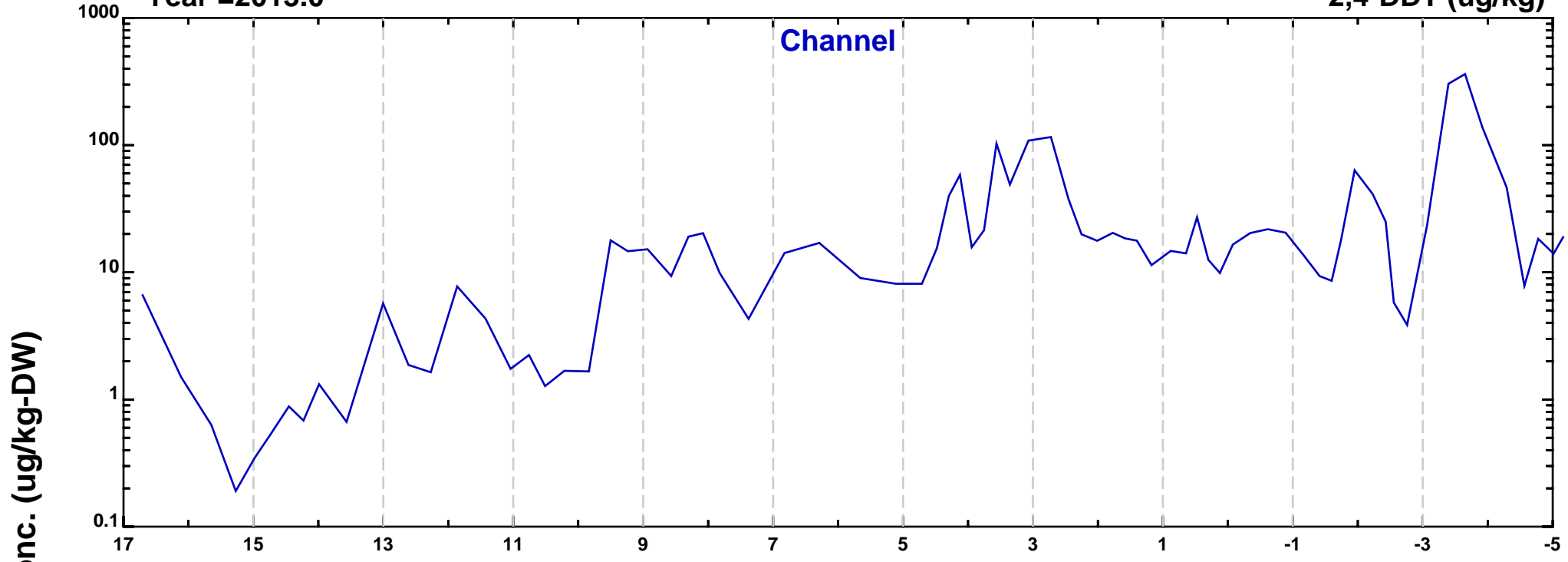
East Newark Bay shoal



River Mile

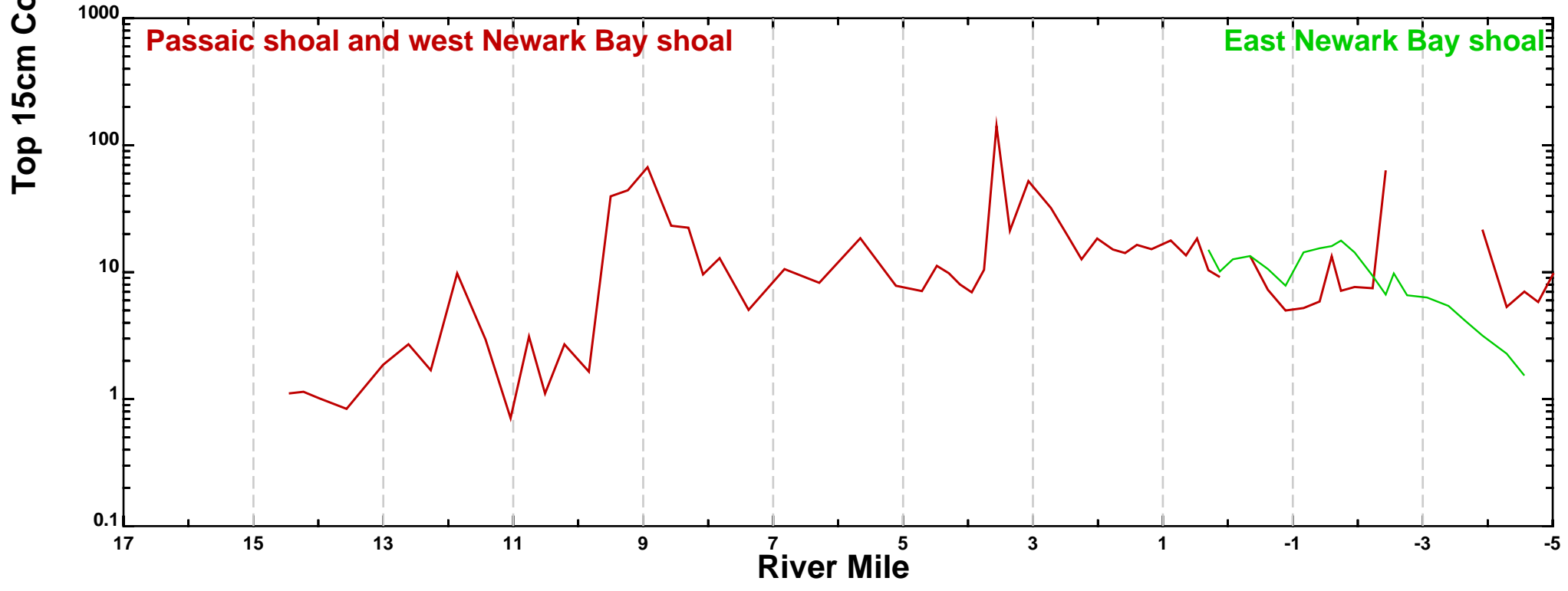
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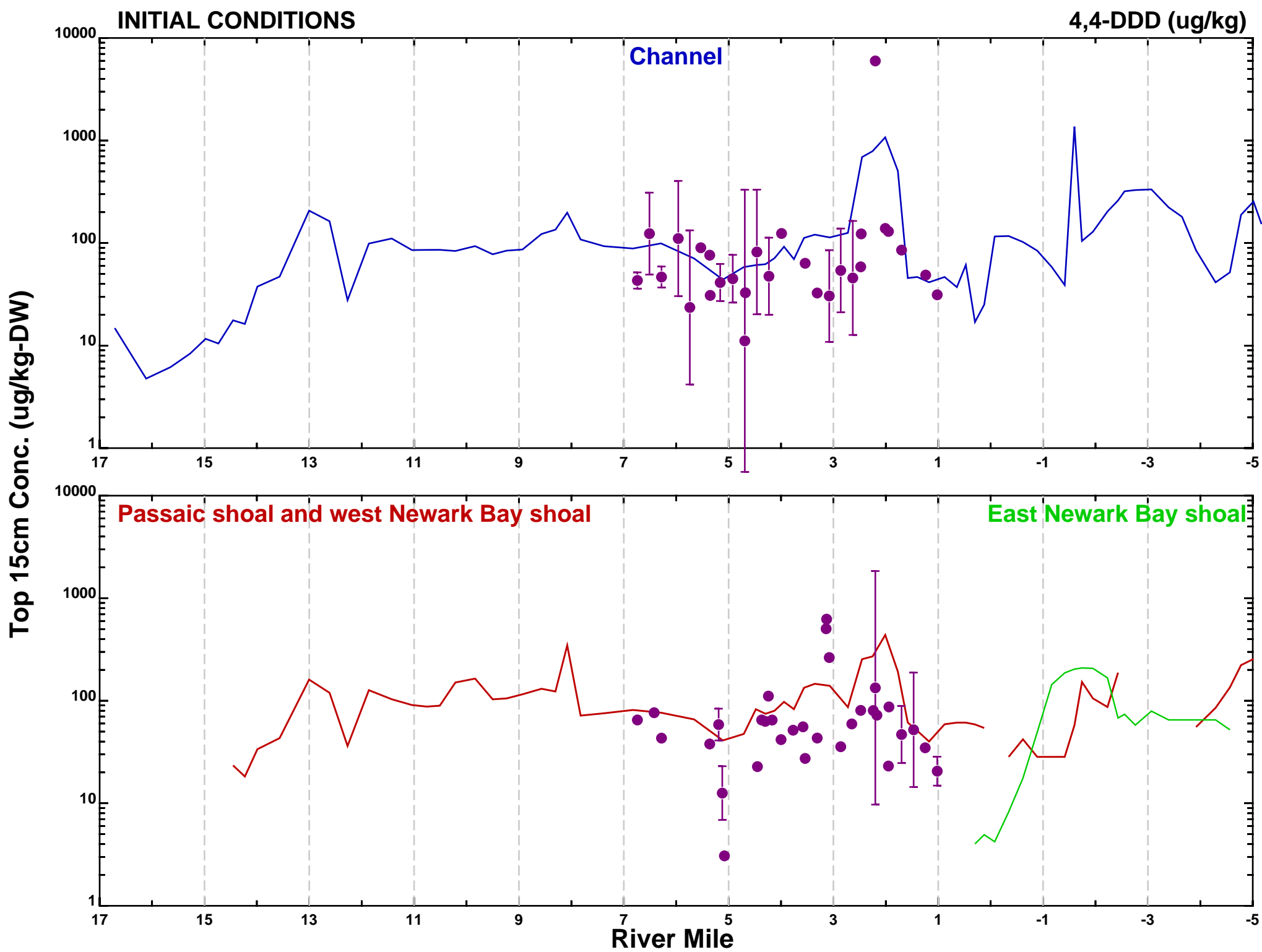
2,4-DDT (ug/kg)

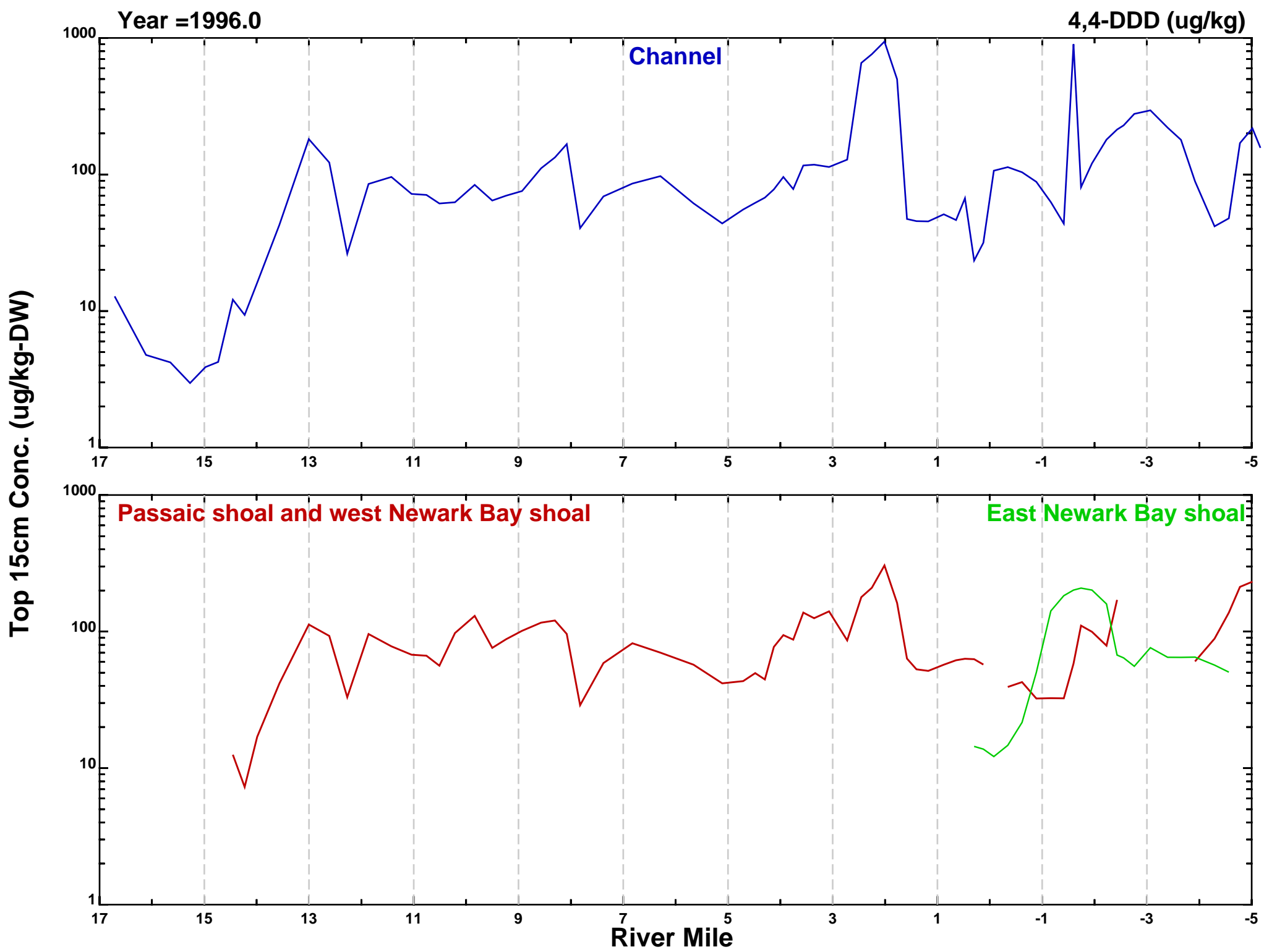


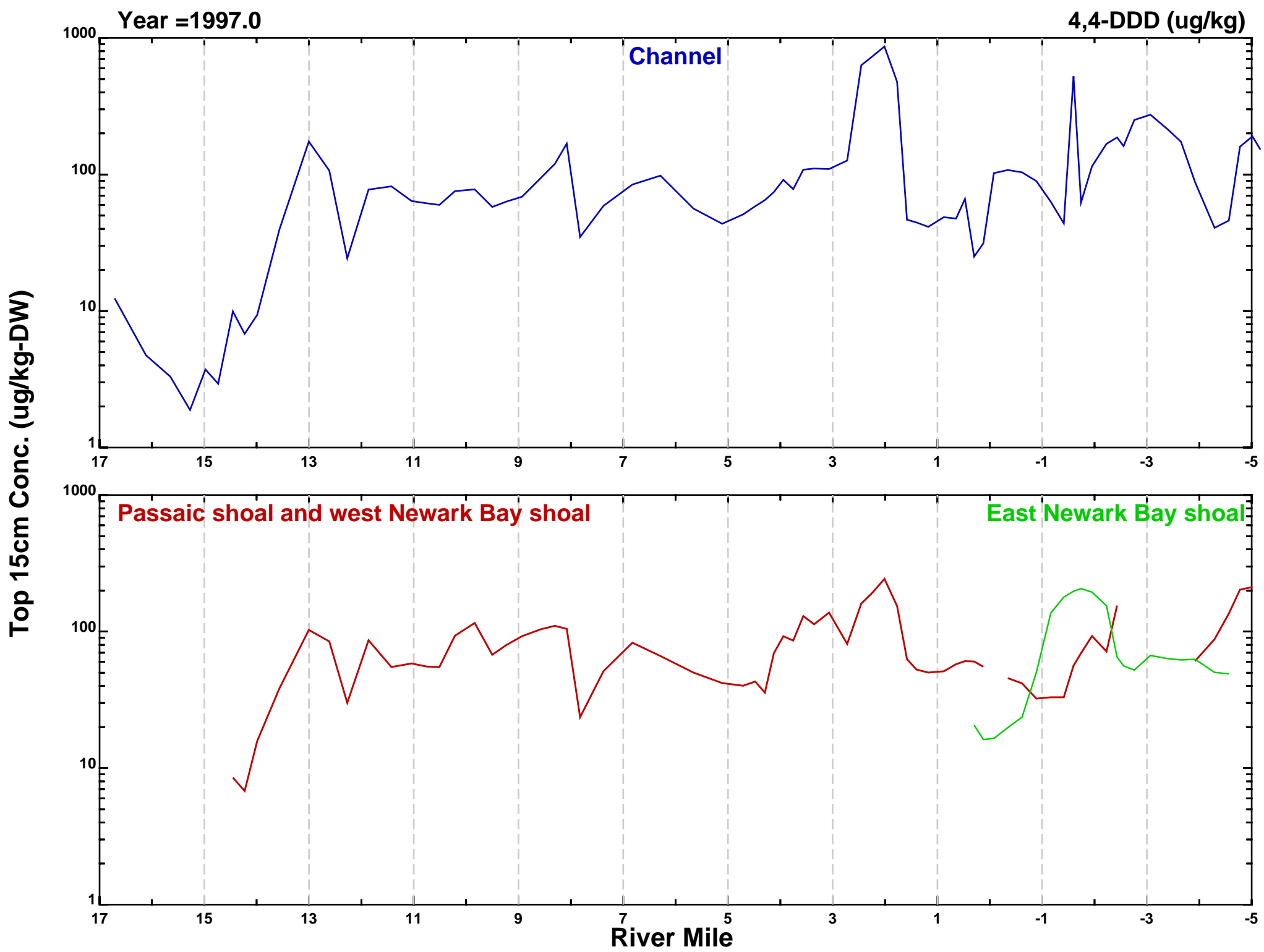
Passaic shoal and west Newark Bay shoal

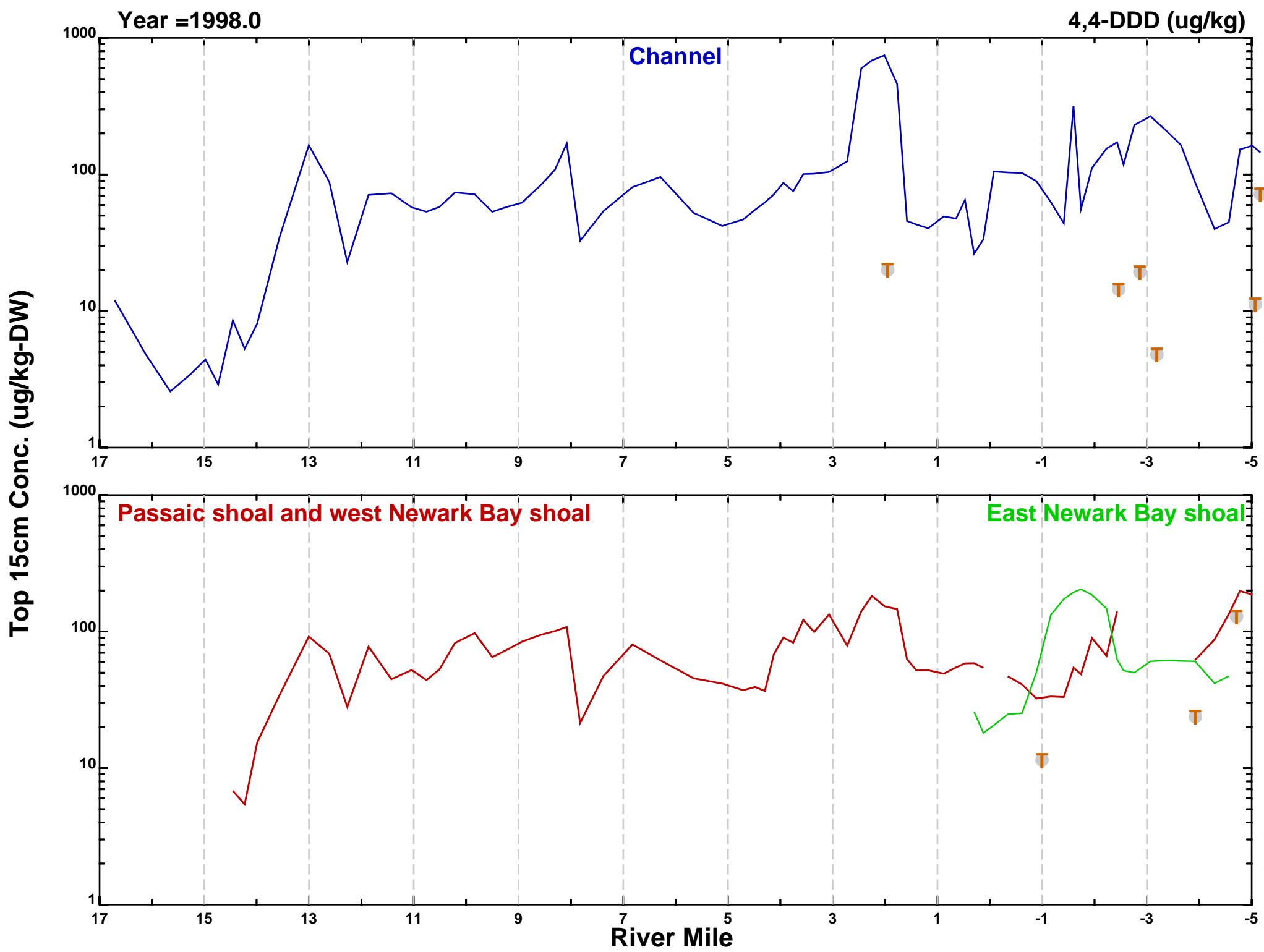
East Newark Bay shoal







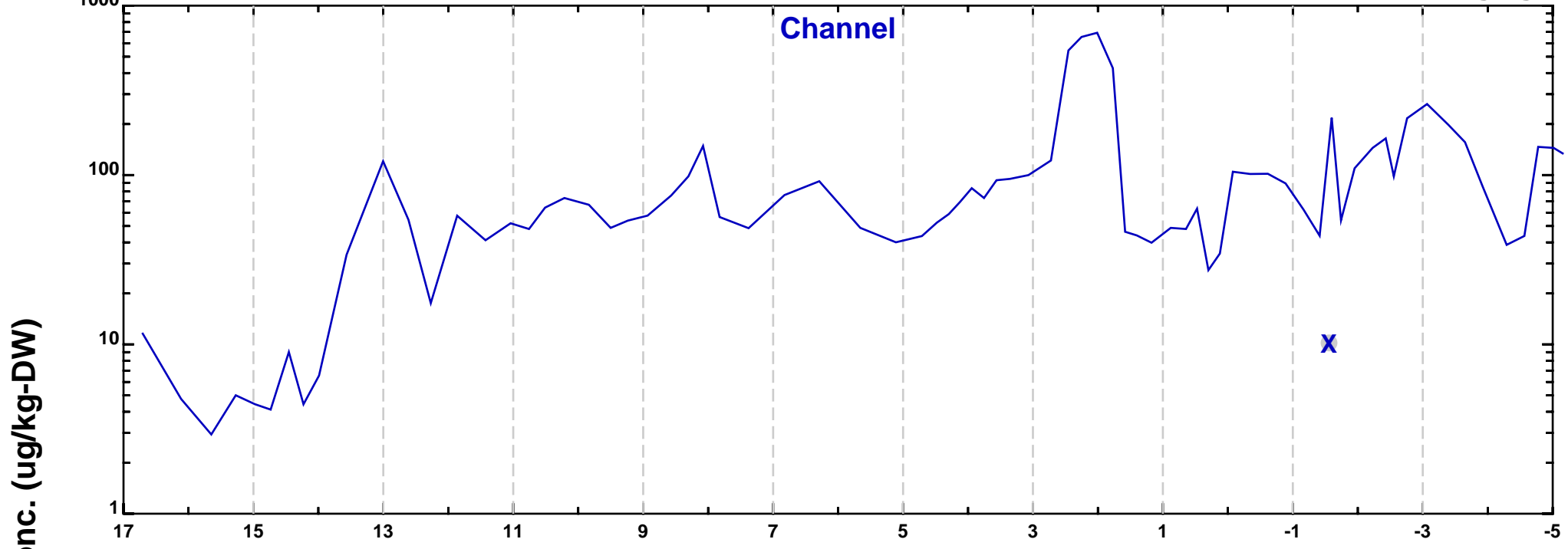






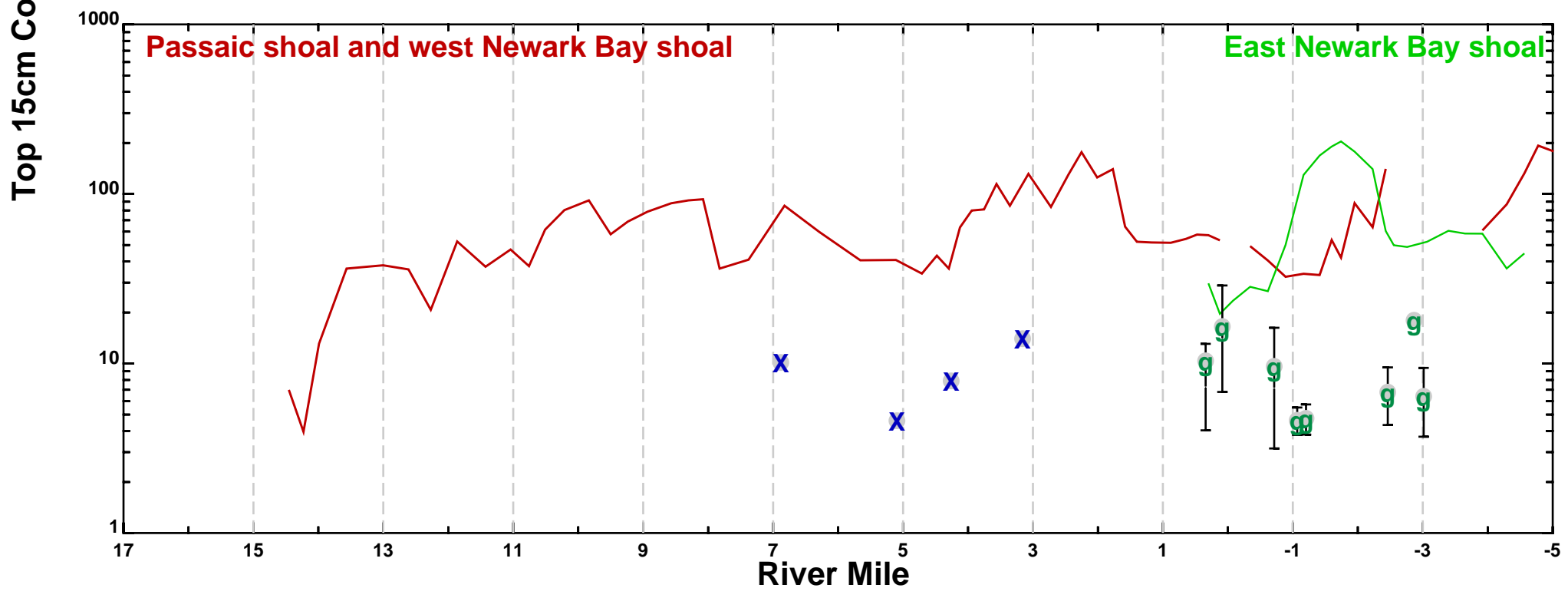
Year = 1999.0

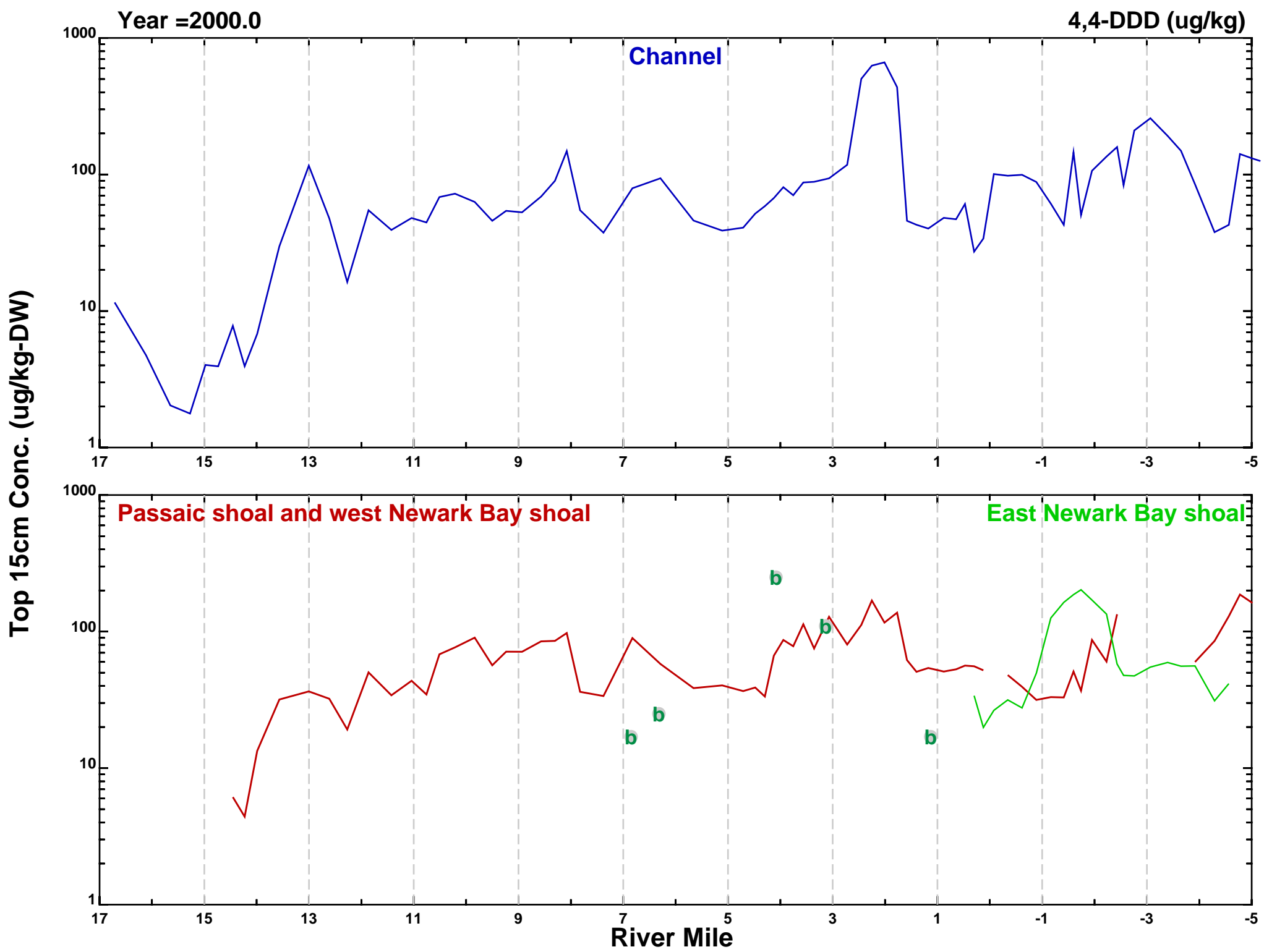
4,4-DDD (ug/kg)

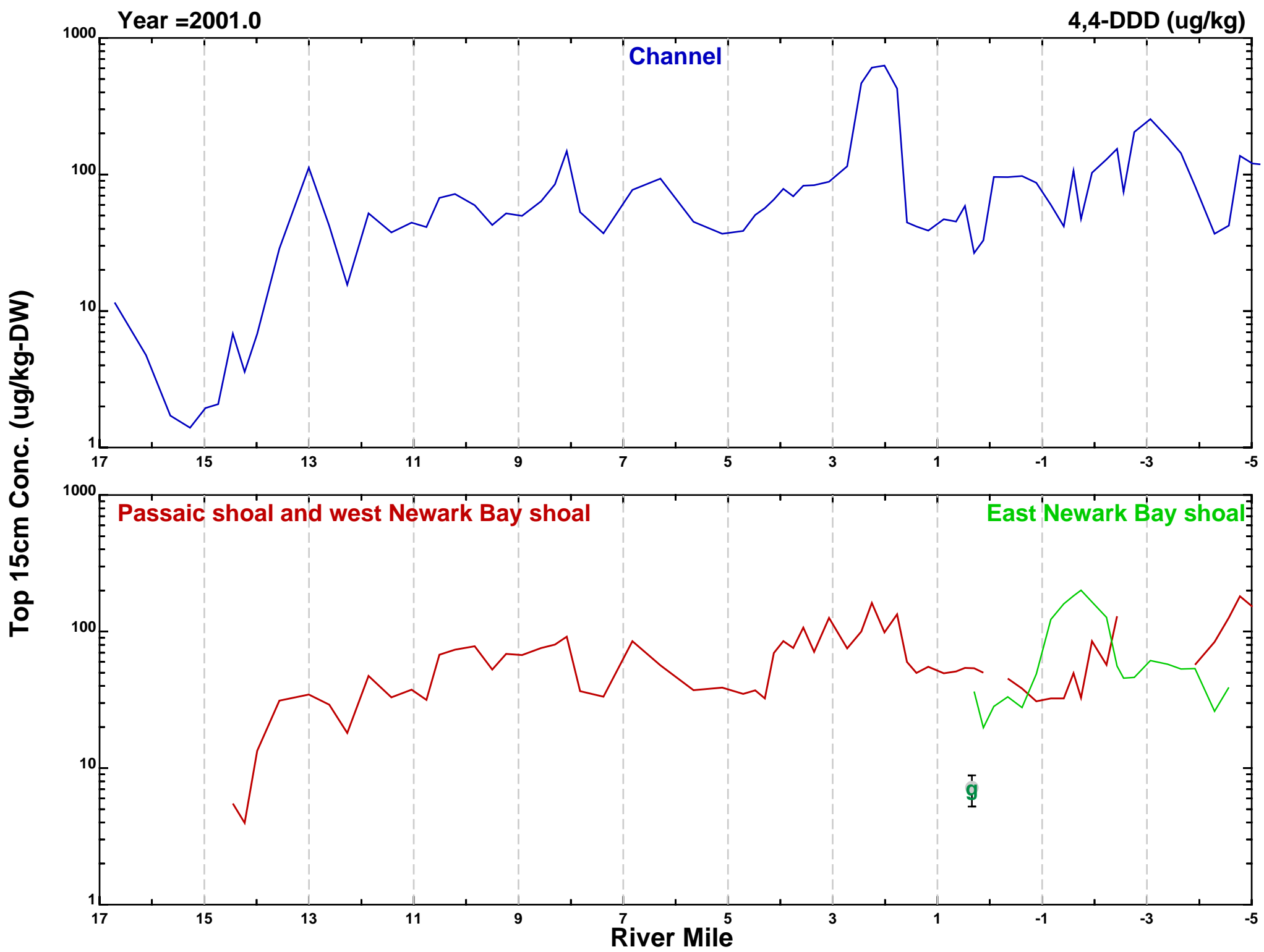


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





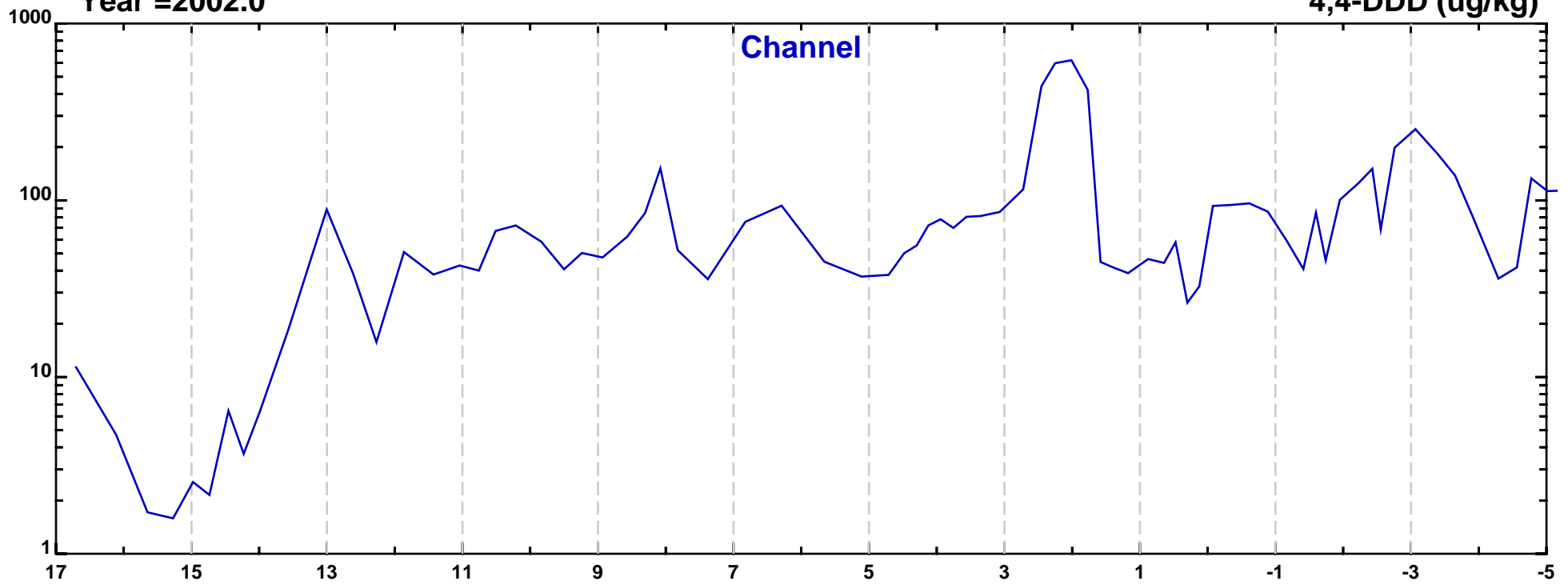


Year =2002.0

4,4-DDD (ug/kg)

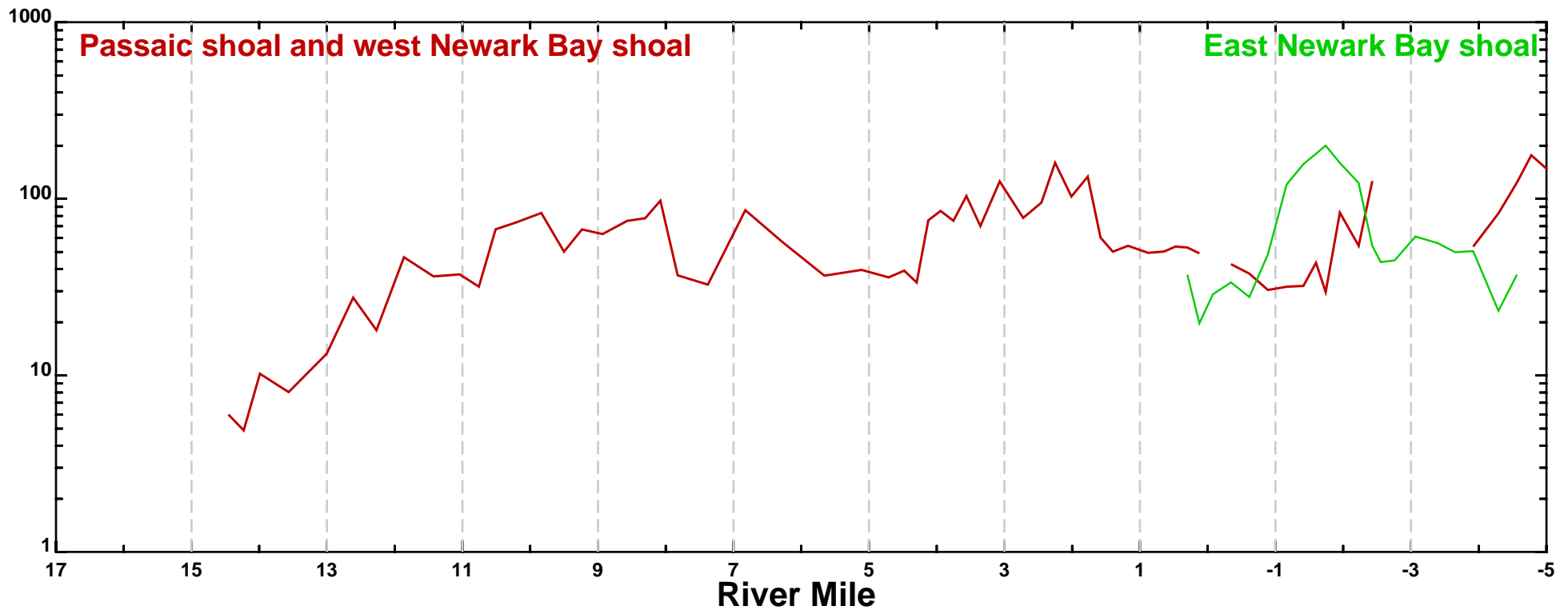
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

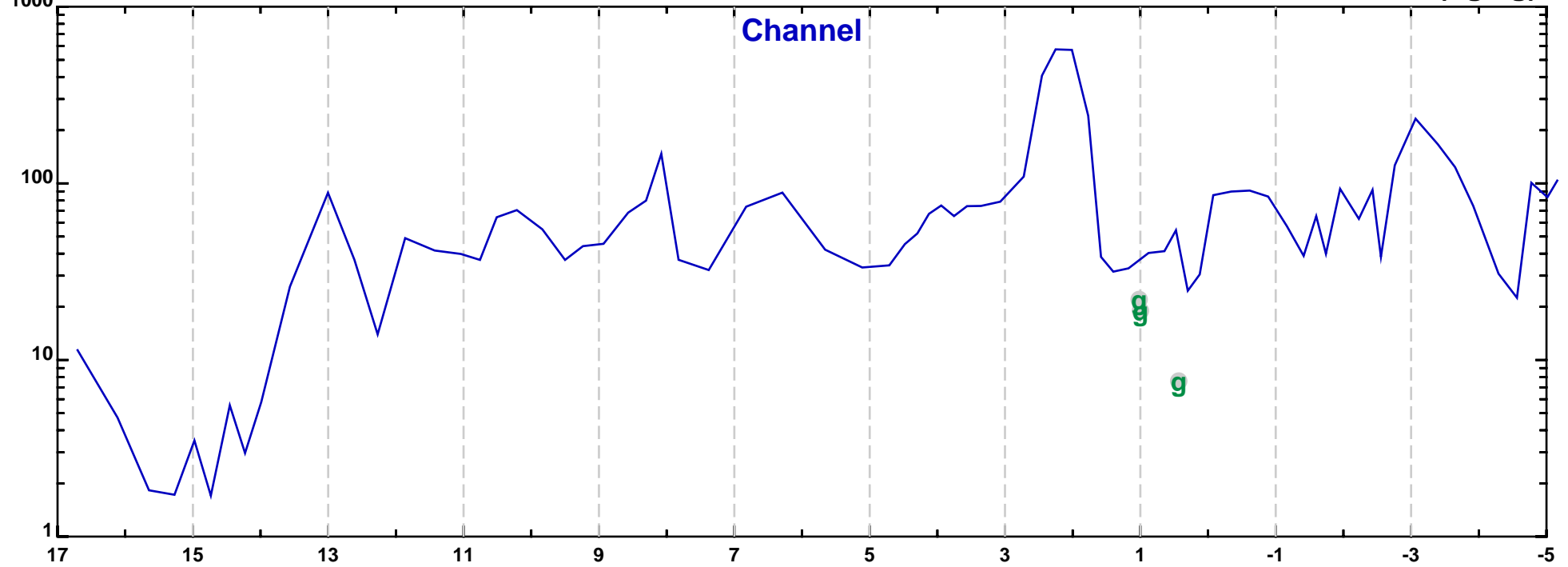
East Newark Bay shoal



Year = 2003.0

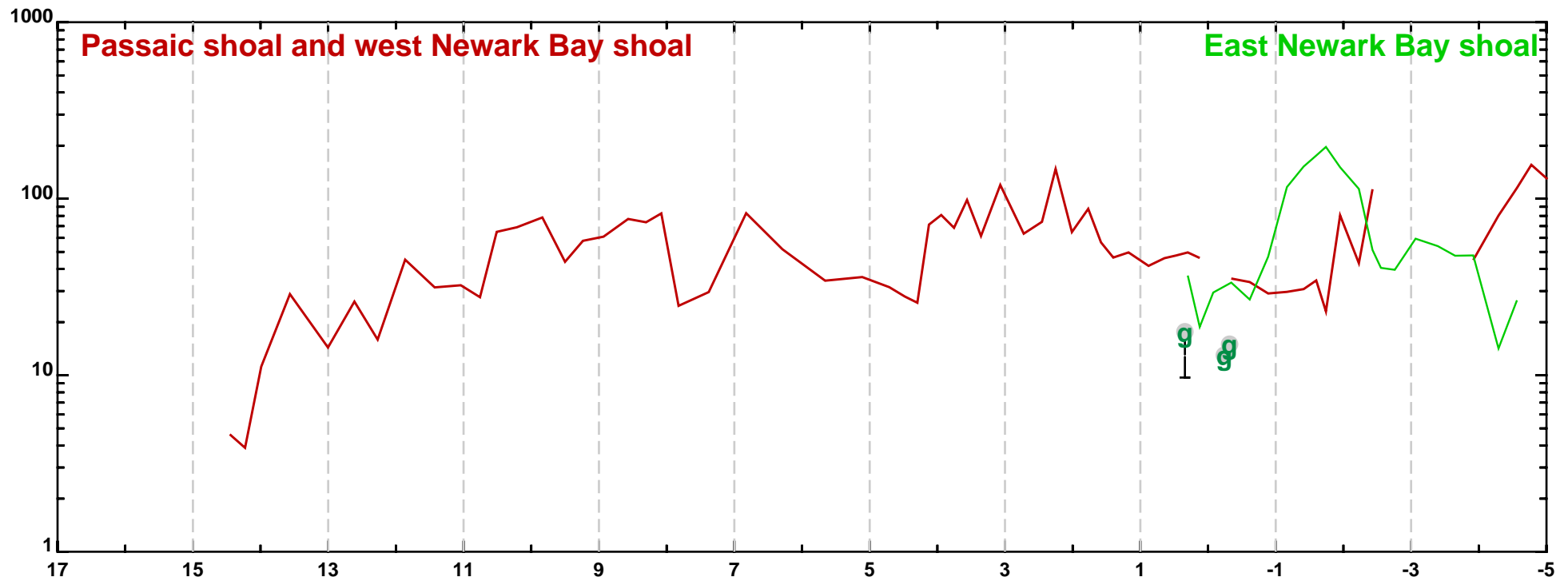
4,4-DDD (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

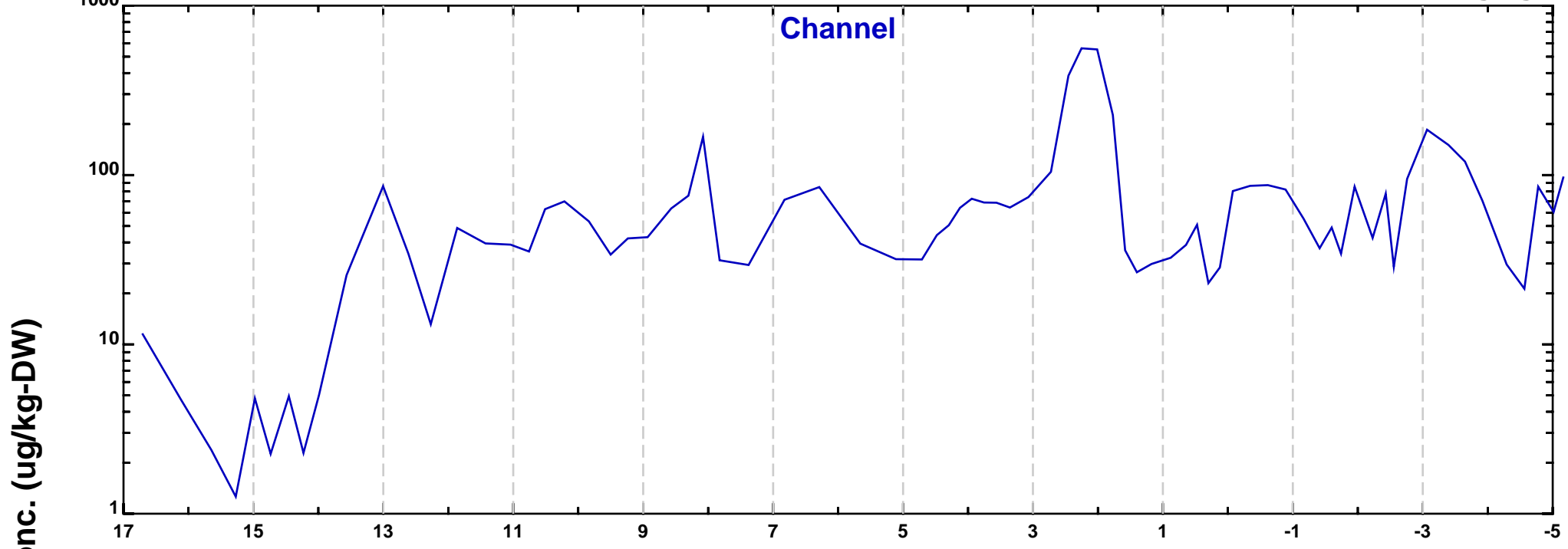
East Newark Bay shoal



River Mile

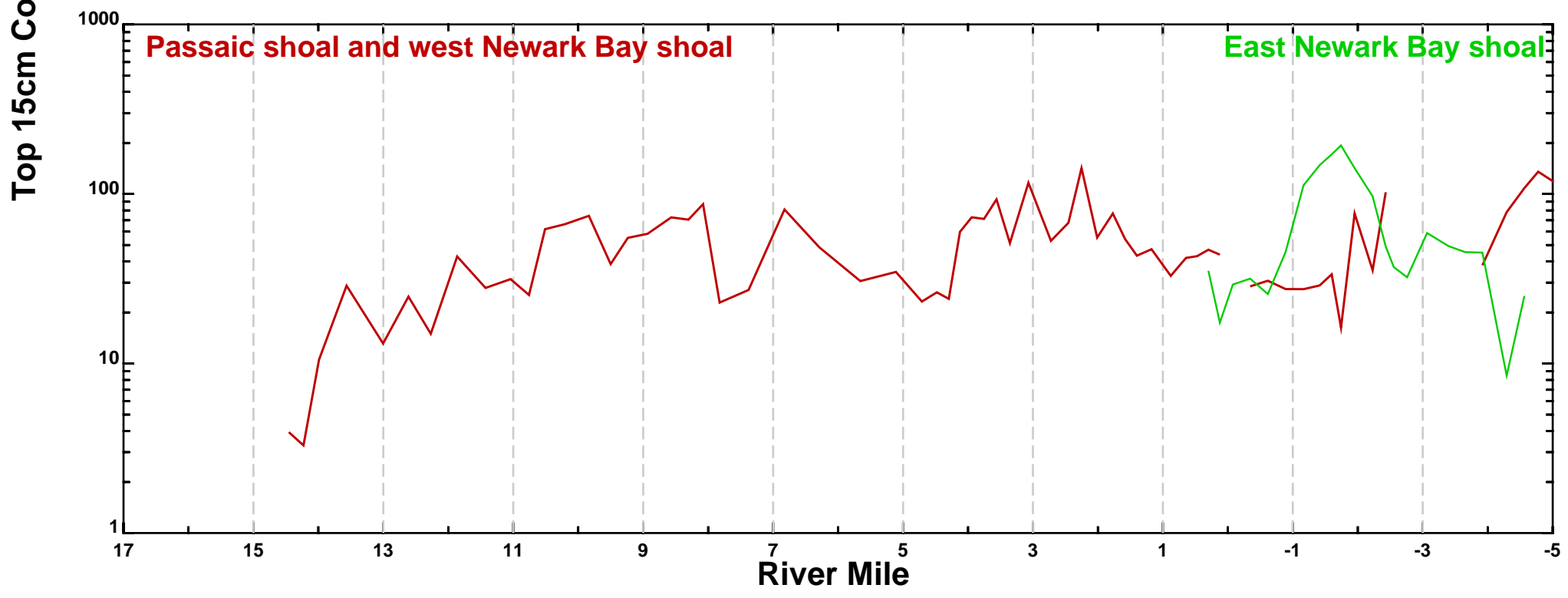
Year =2004.0

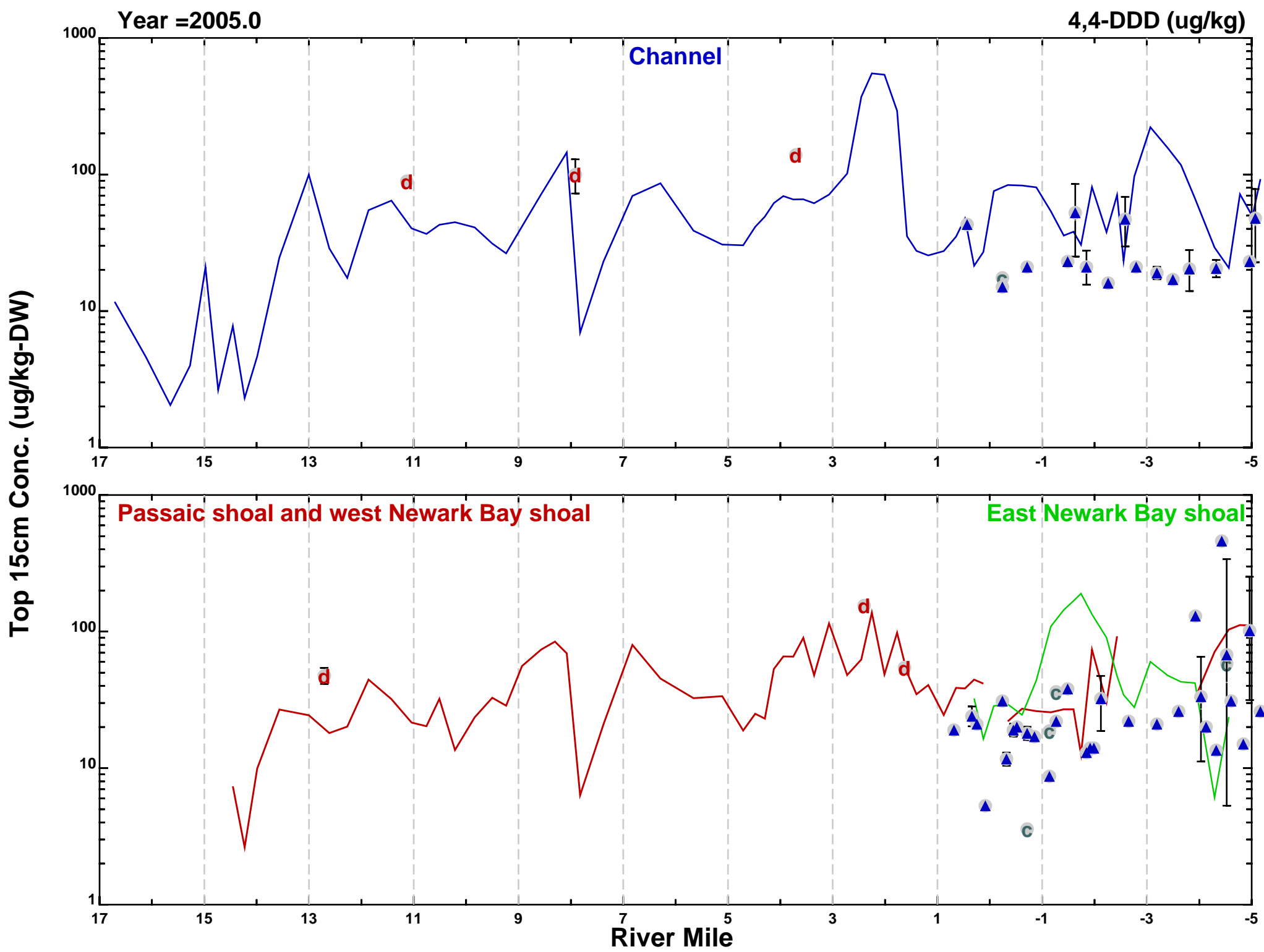
4,4-DDD (ug/kg)



Passaic shoal and west Newark Bay shoal

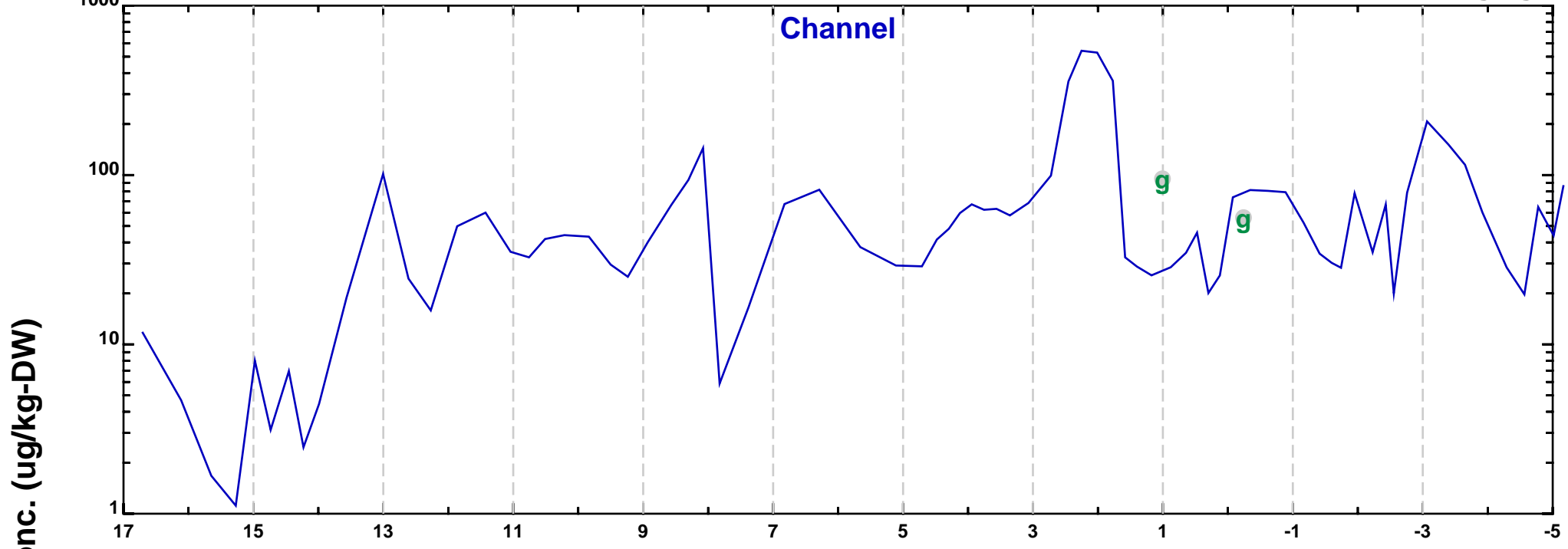
East Newark Bay shoal





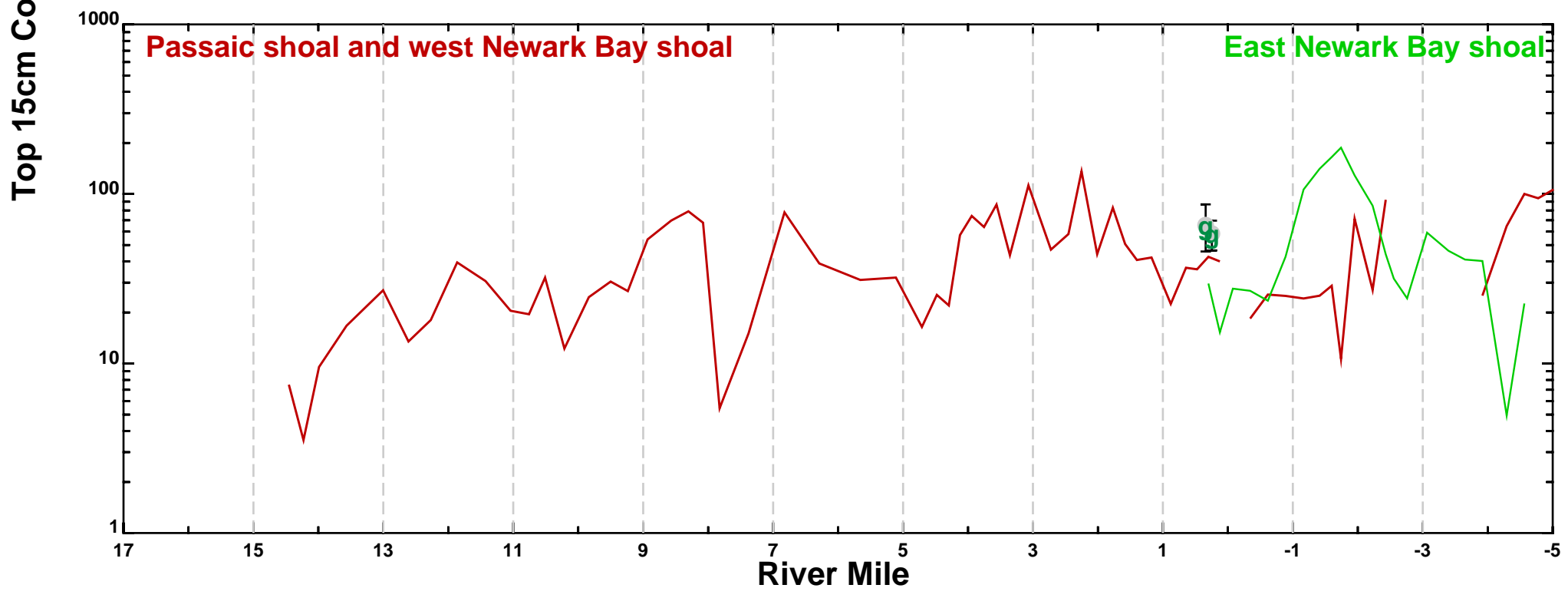
Year =2006.0

4,4-DDD (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



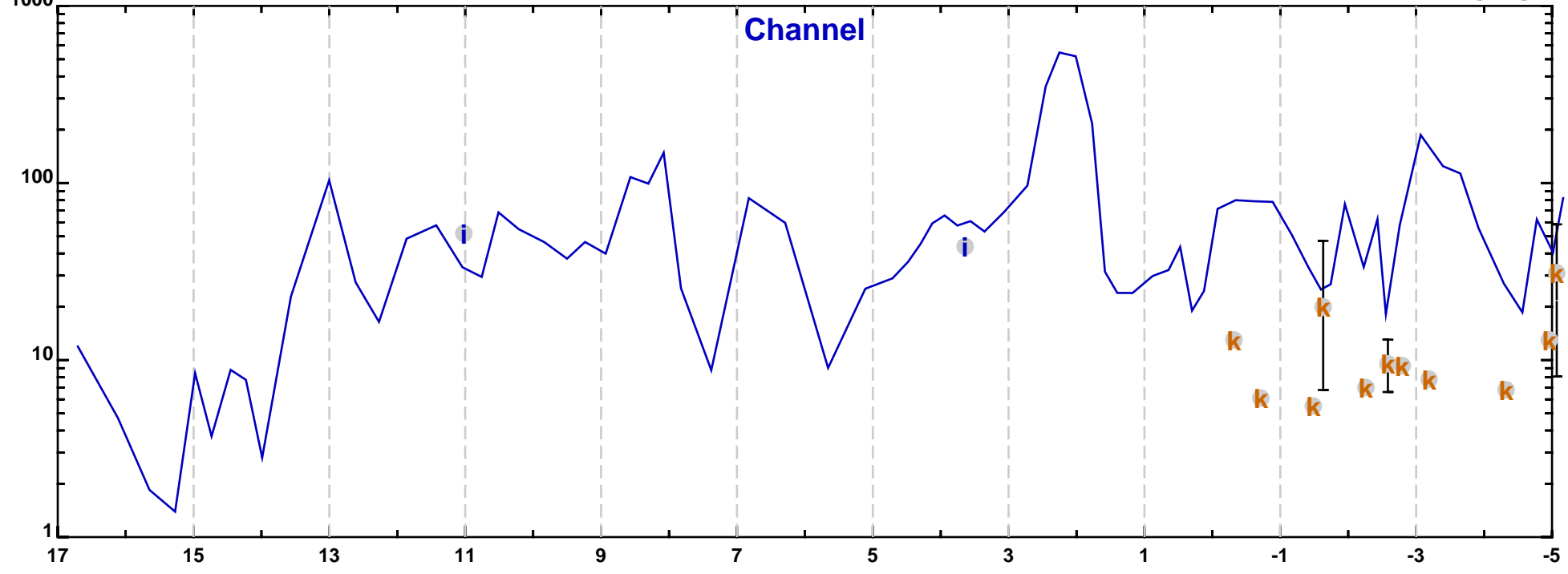
River Mile



Year =2007.0

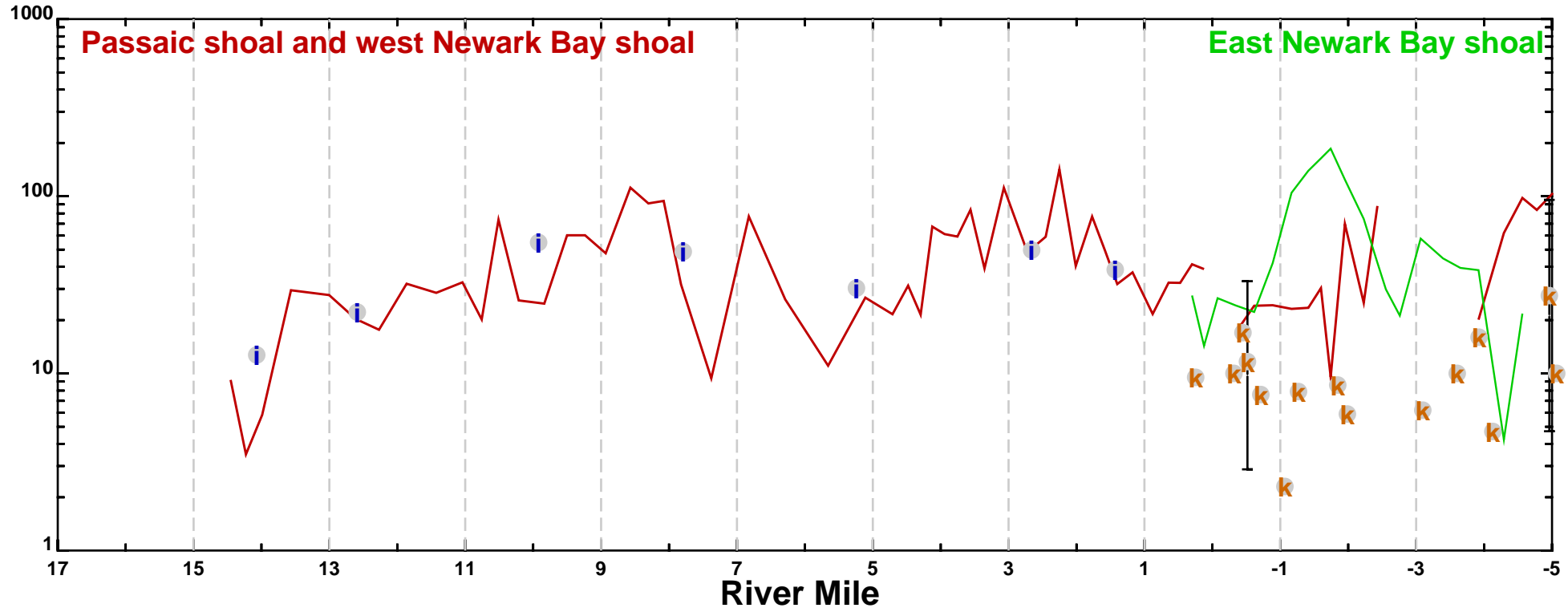
4,4-DDD (ug/kg)

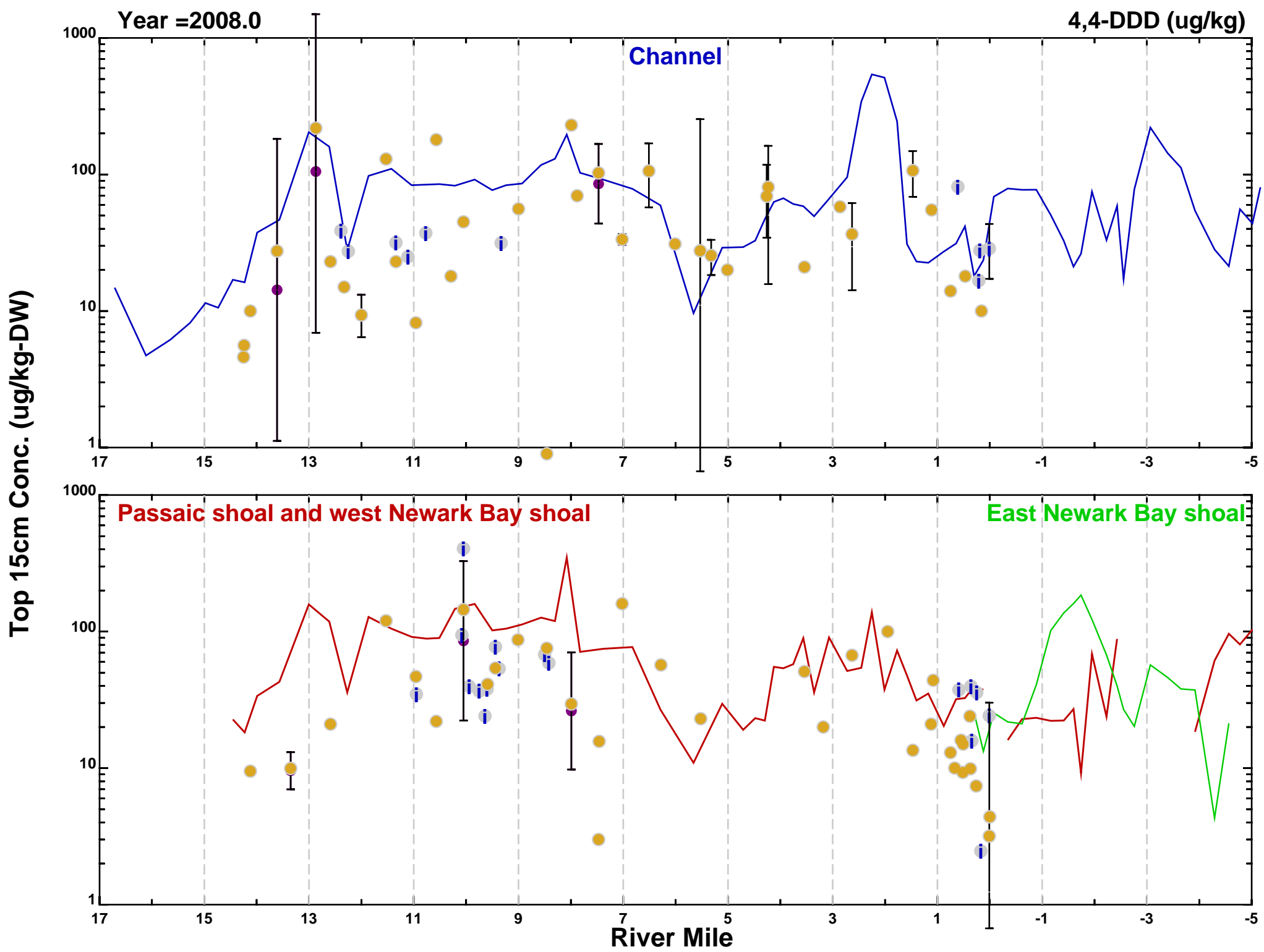
Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



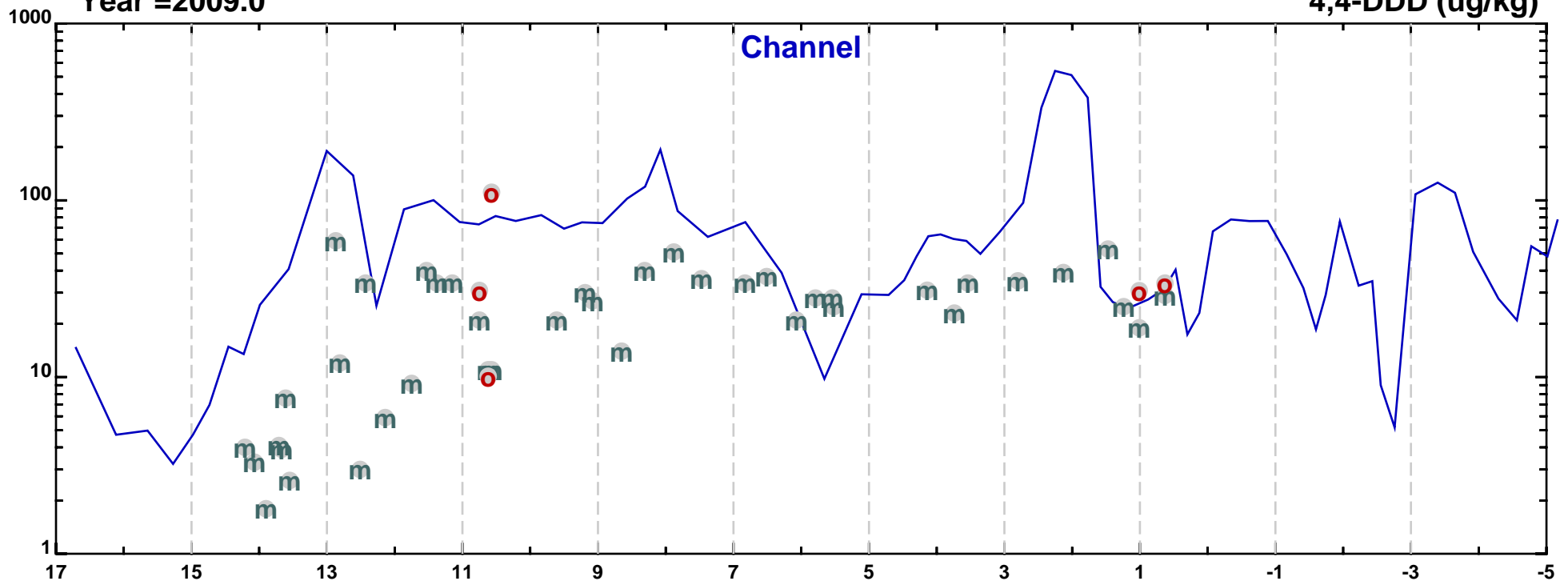


Year =2009.0

4,4-DDD (ug/kg)

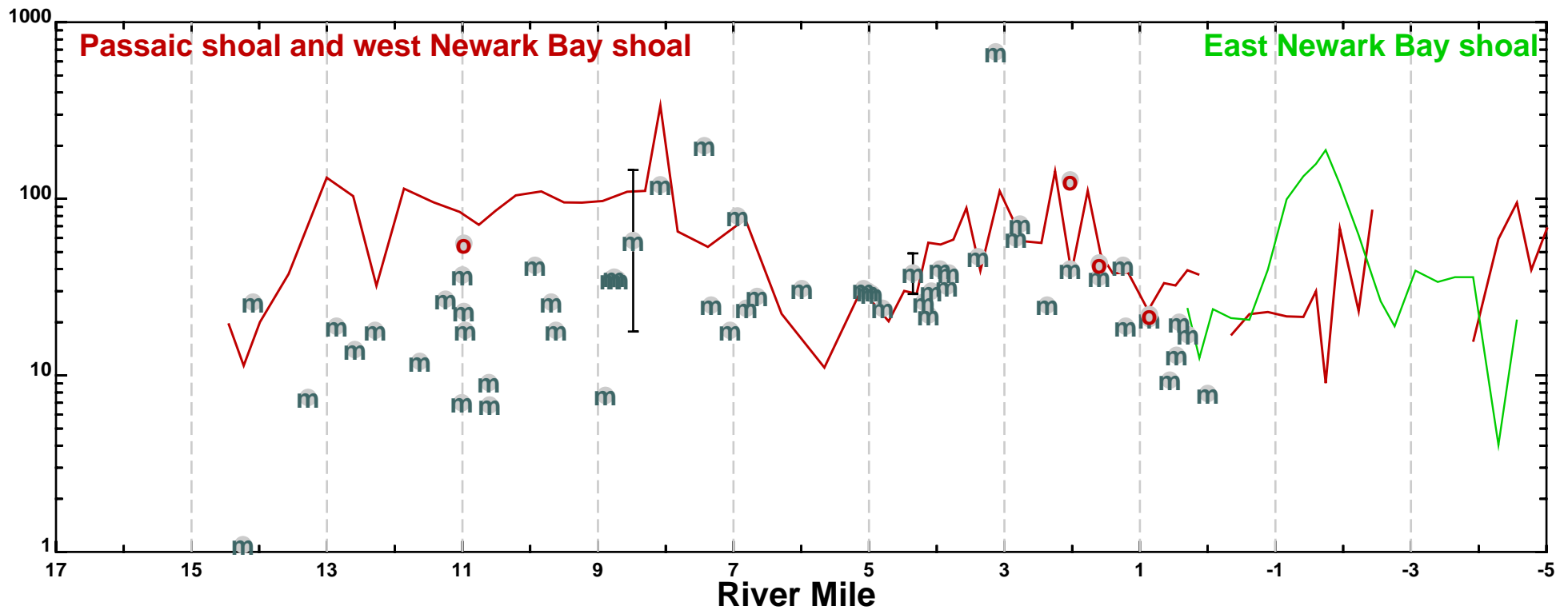
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

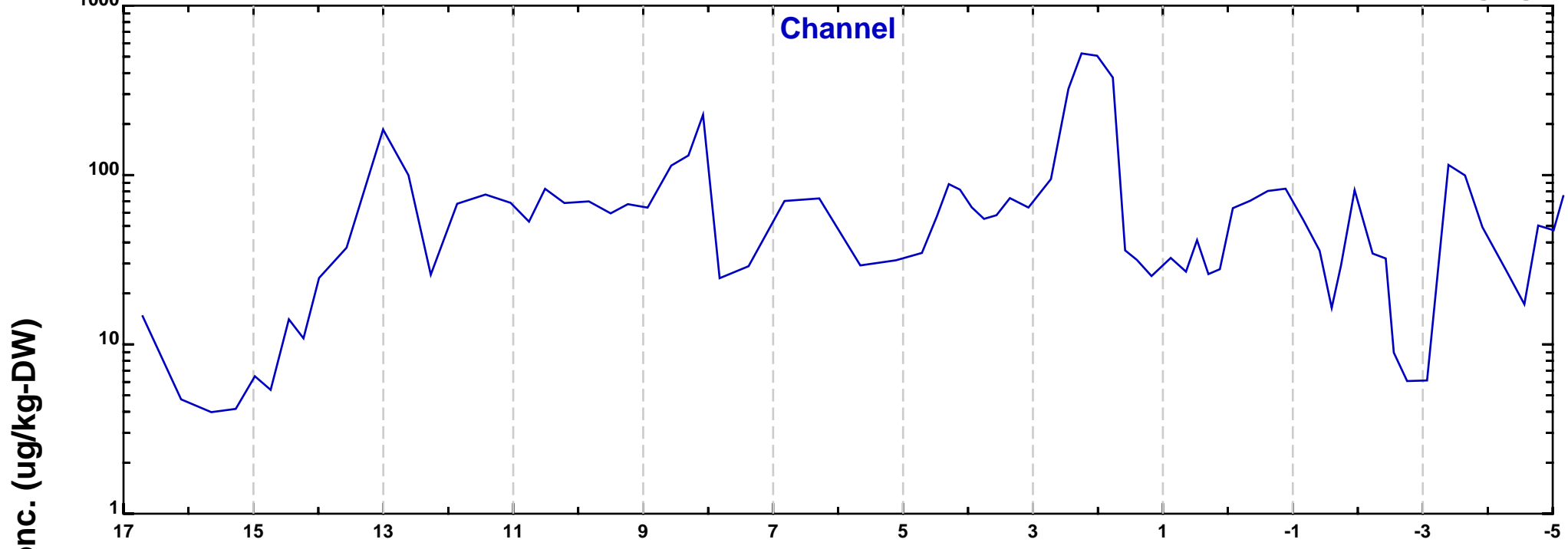
East Newark Bay shoal



River Mile

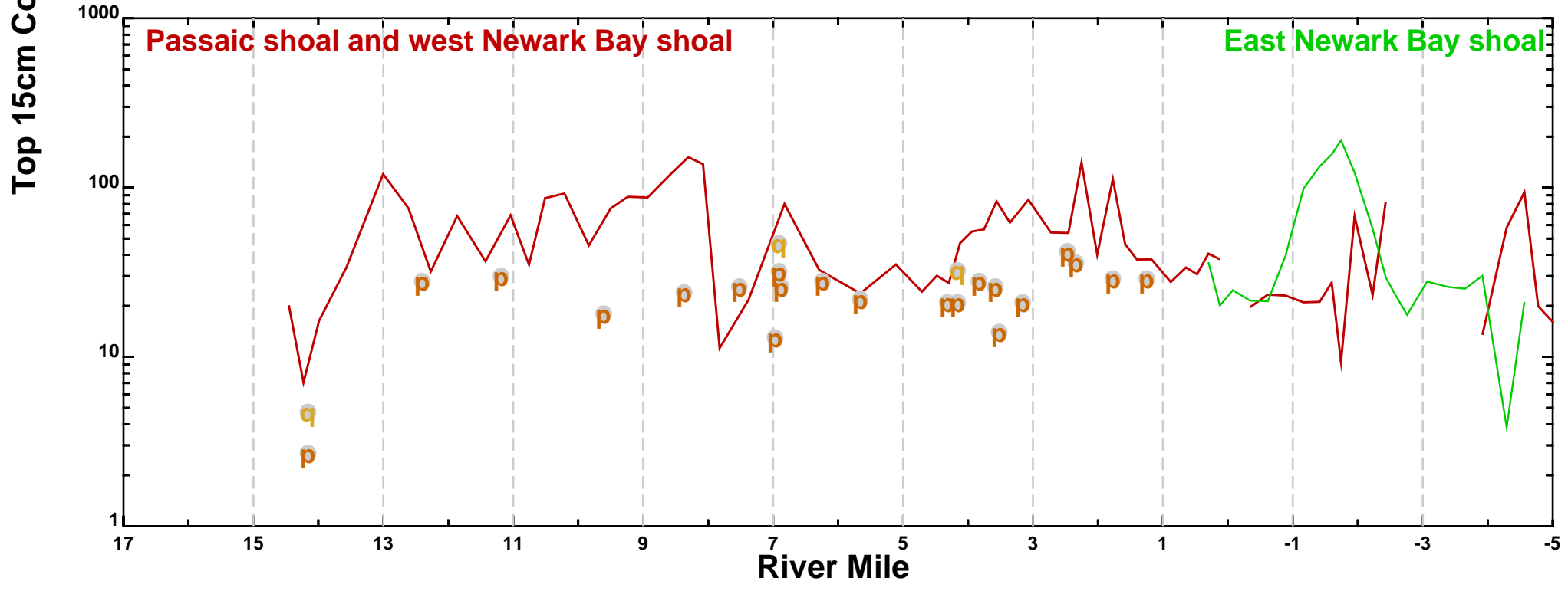
Year =2010.0

4,4-DDD (ug/kg)

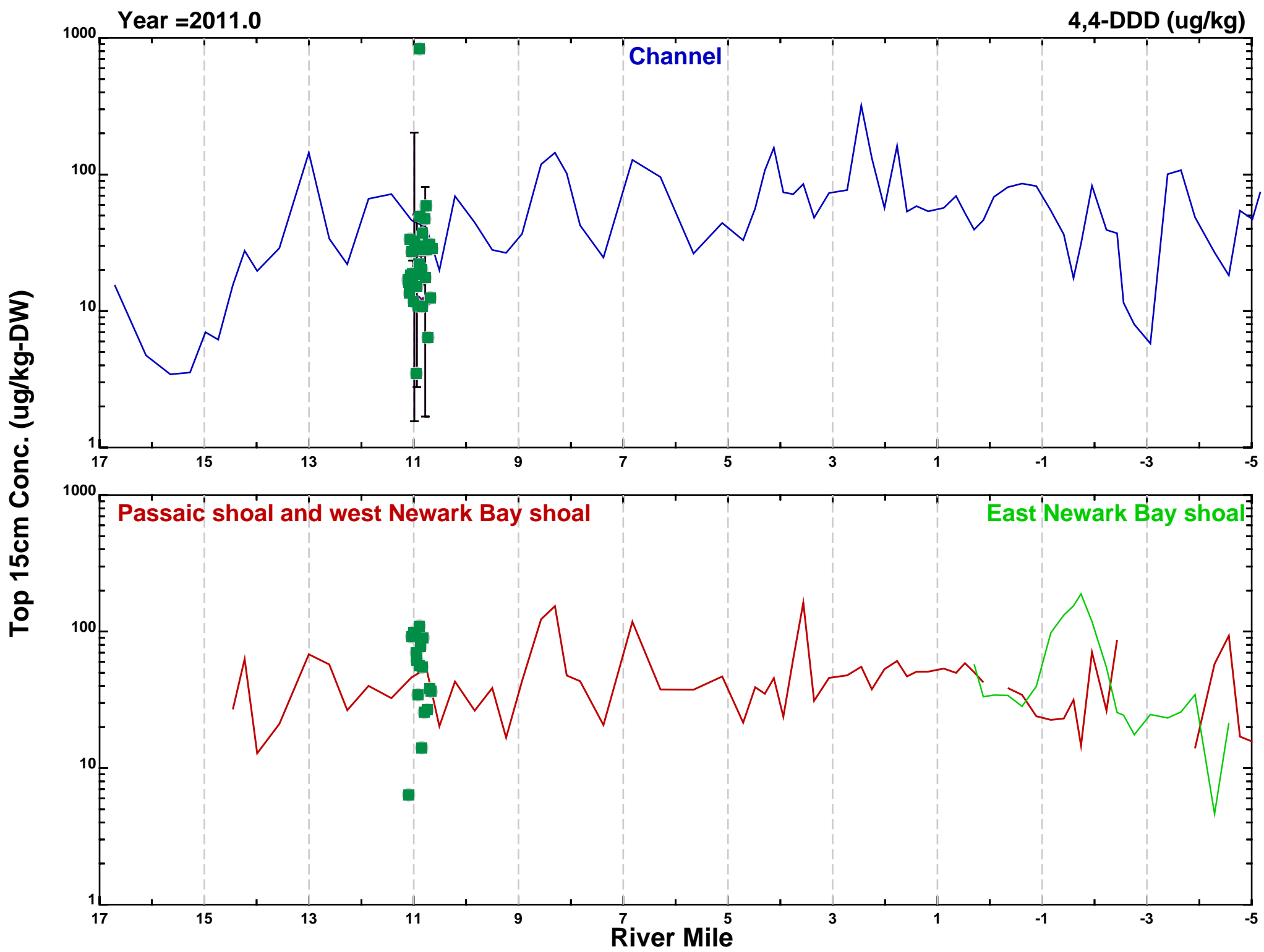


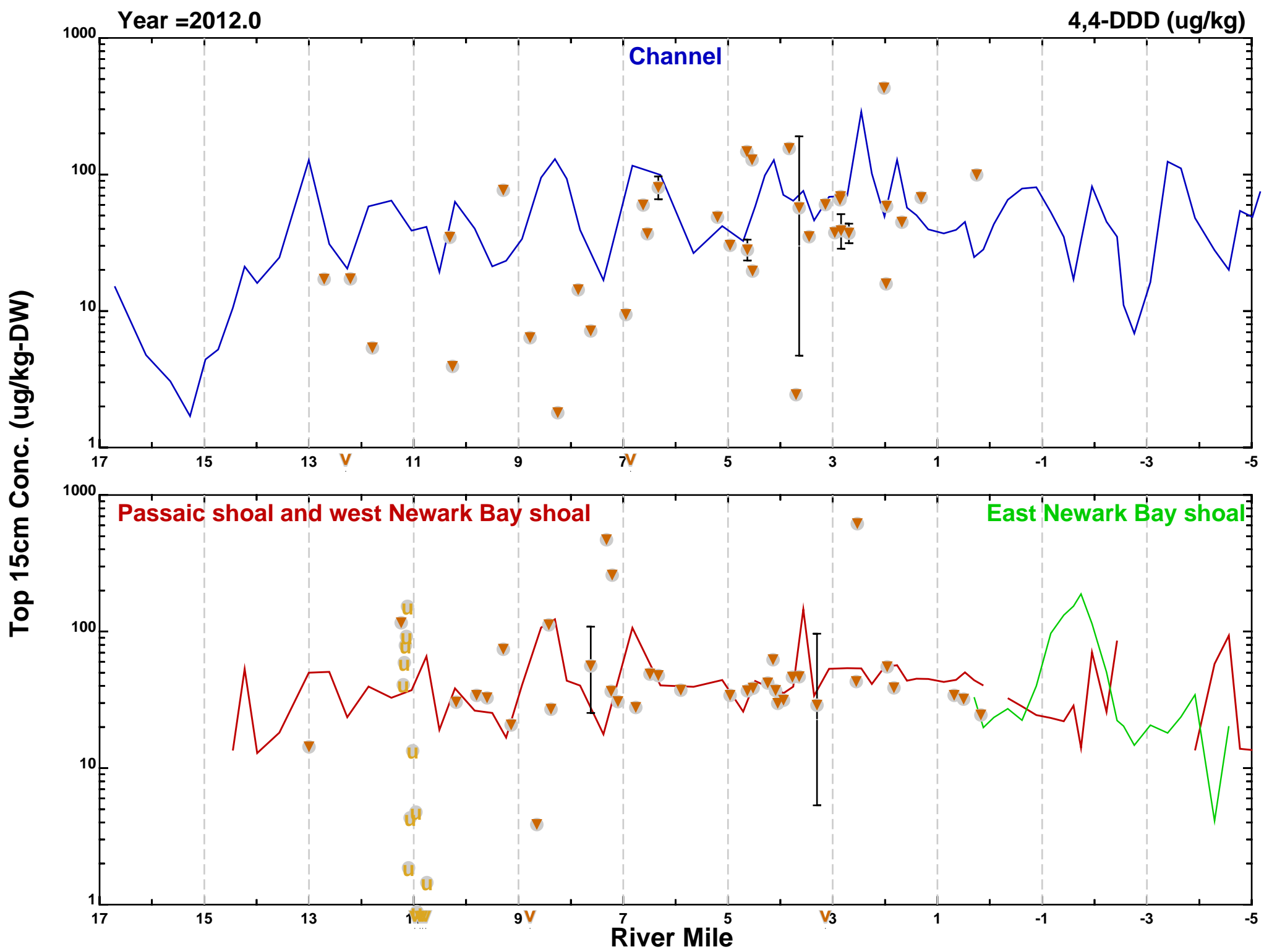
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

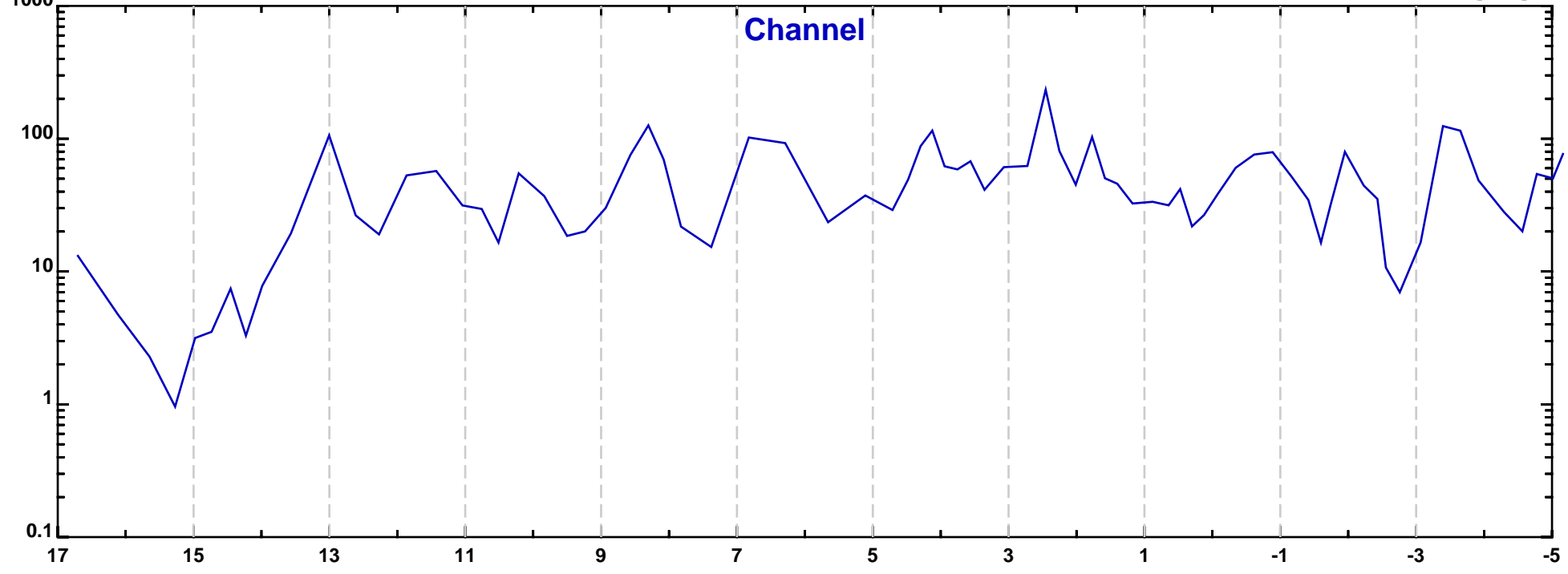




Year =2013.0

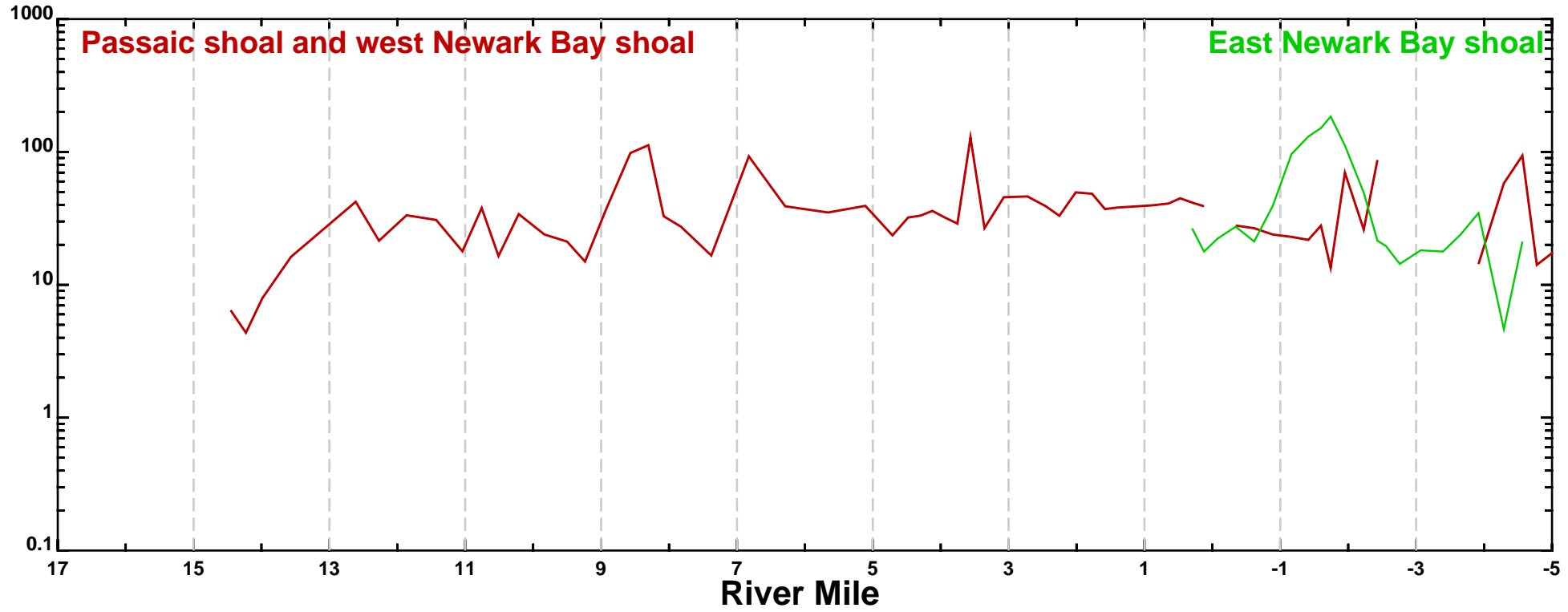
4,4-DDD (ug/kg)

Top 15cm Conc. (ug/kg-DW)

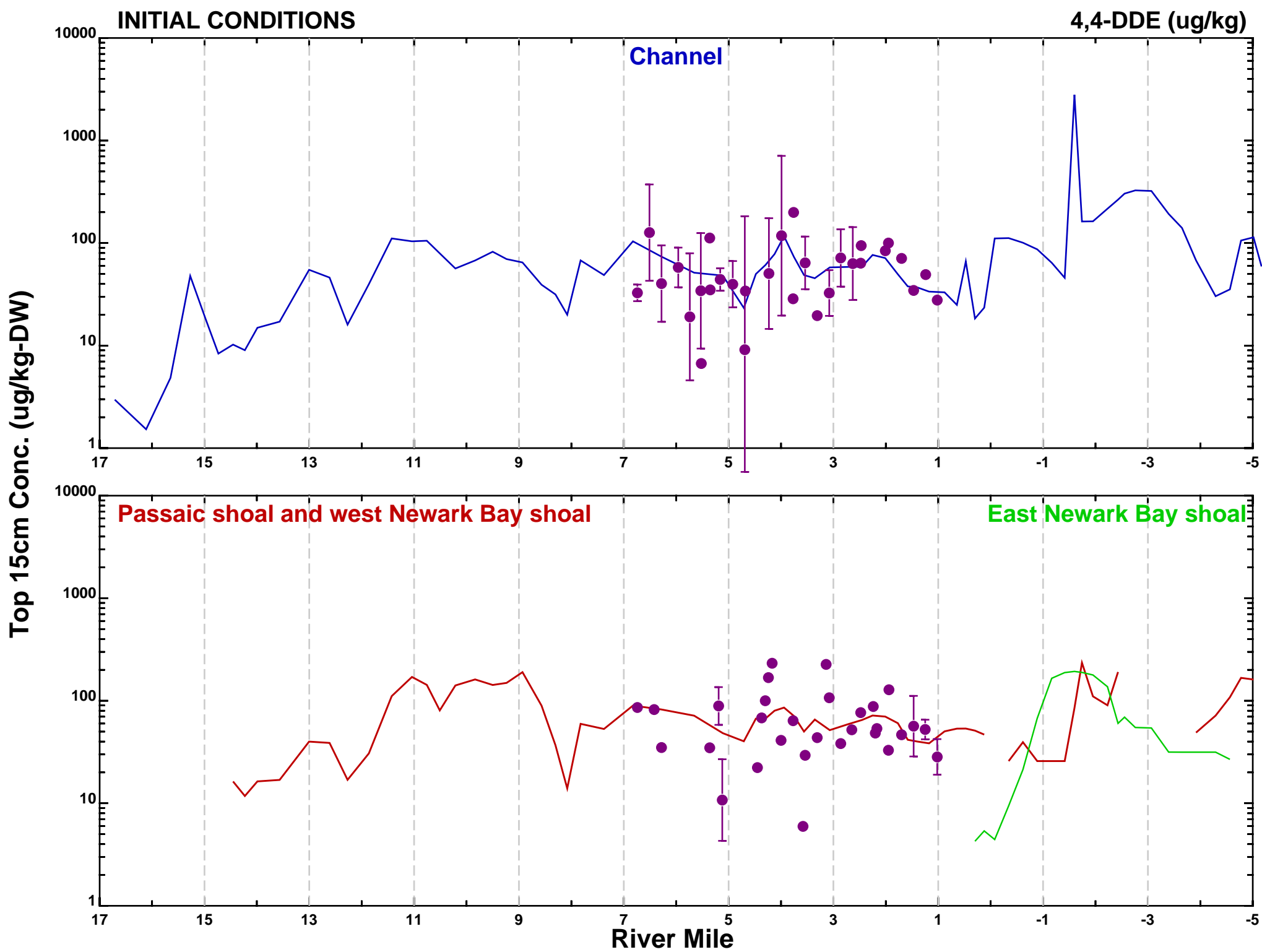


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



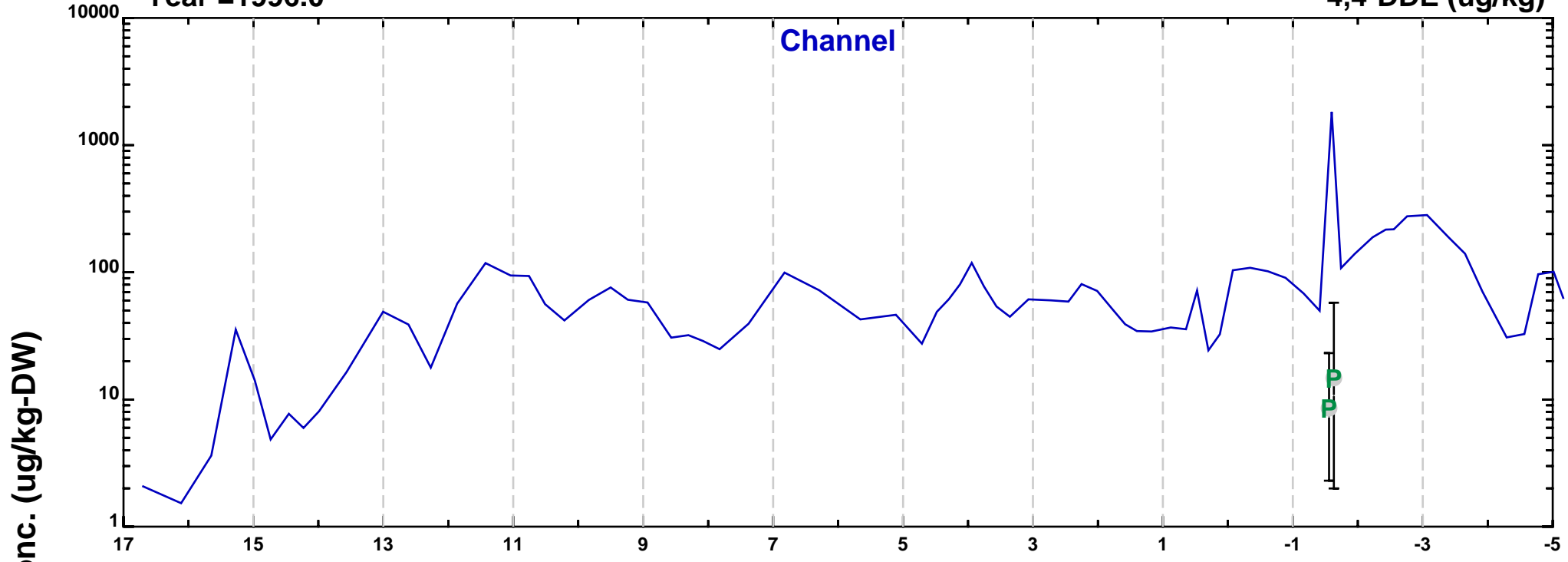
River Mile





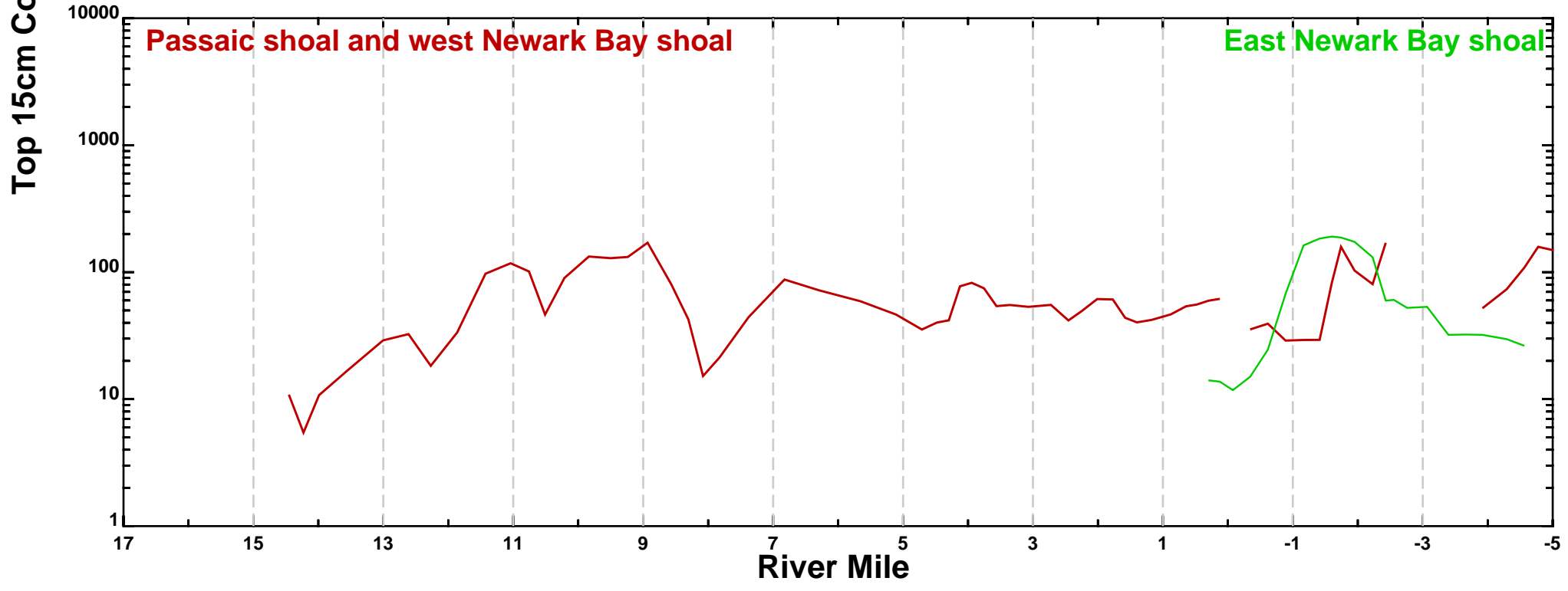
Year = 1996.0

4,4-DDE (ug/kg)

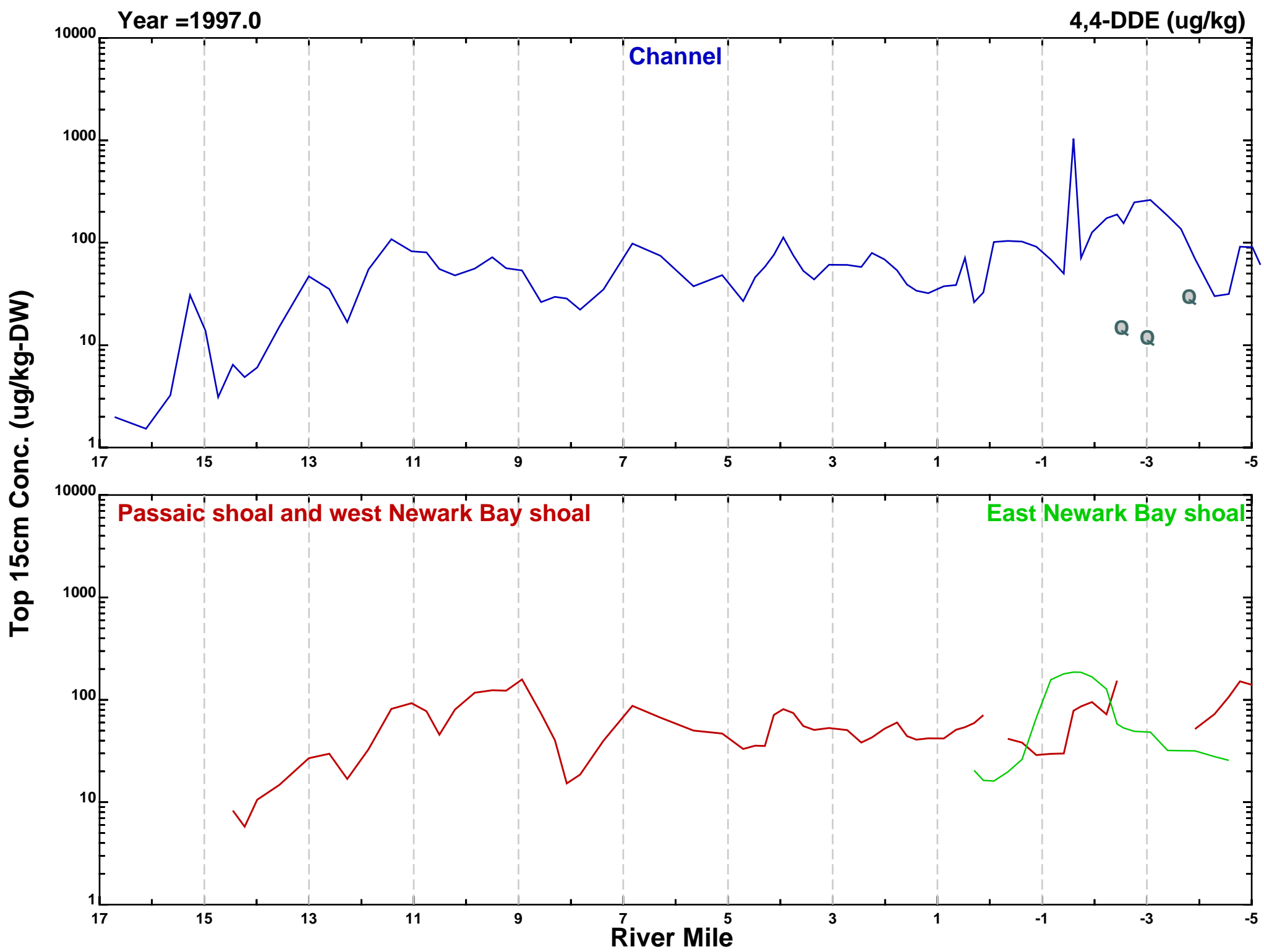


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

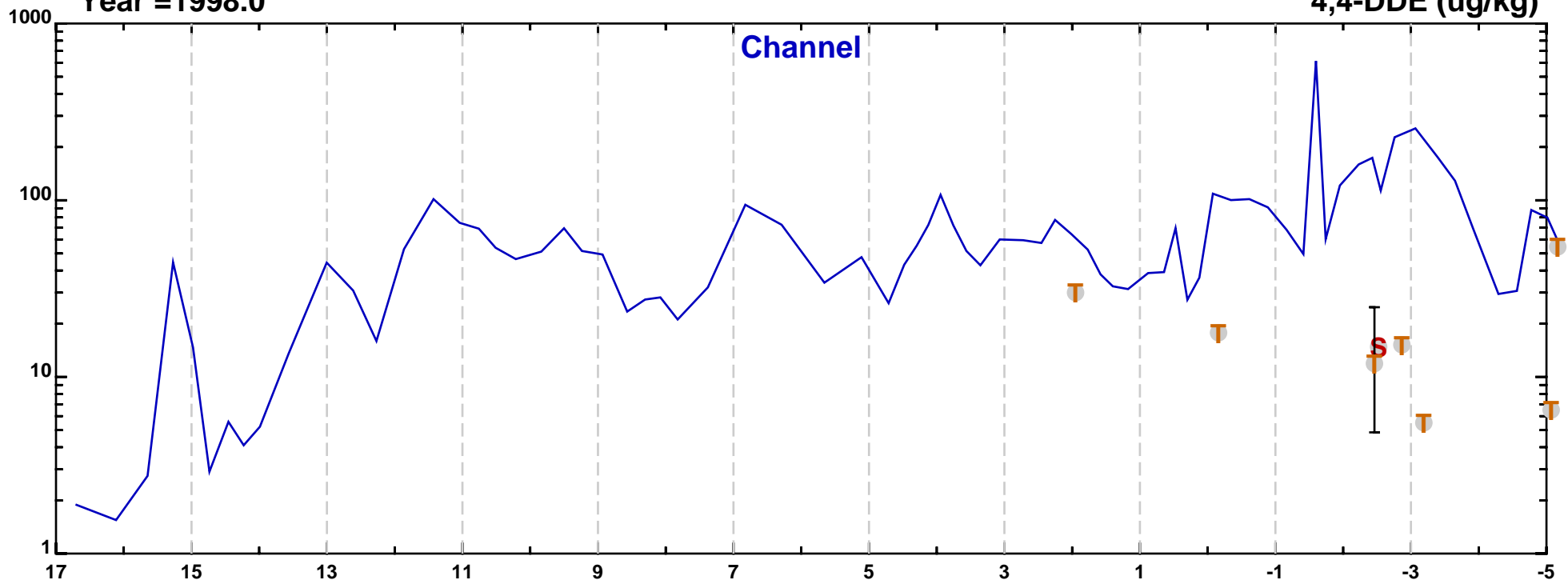


Year = 1998.0

4,4-DDE (ug/kg)

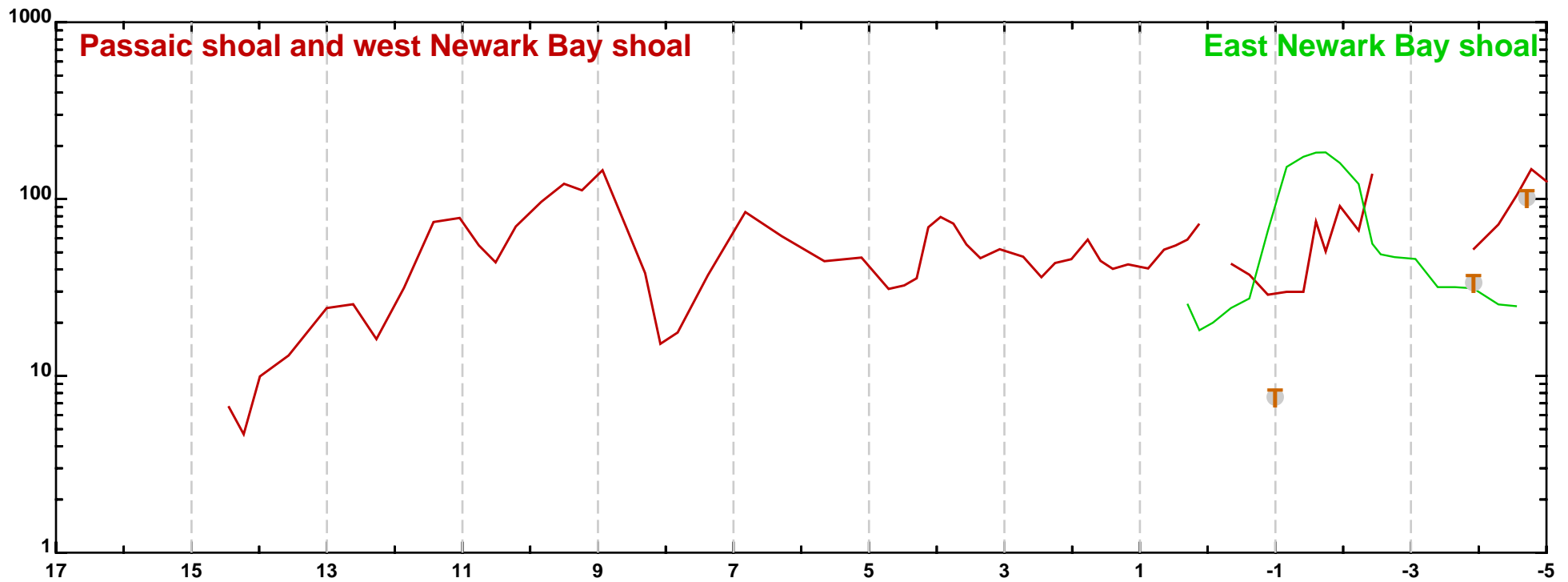
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

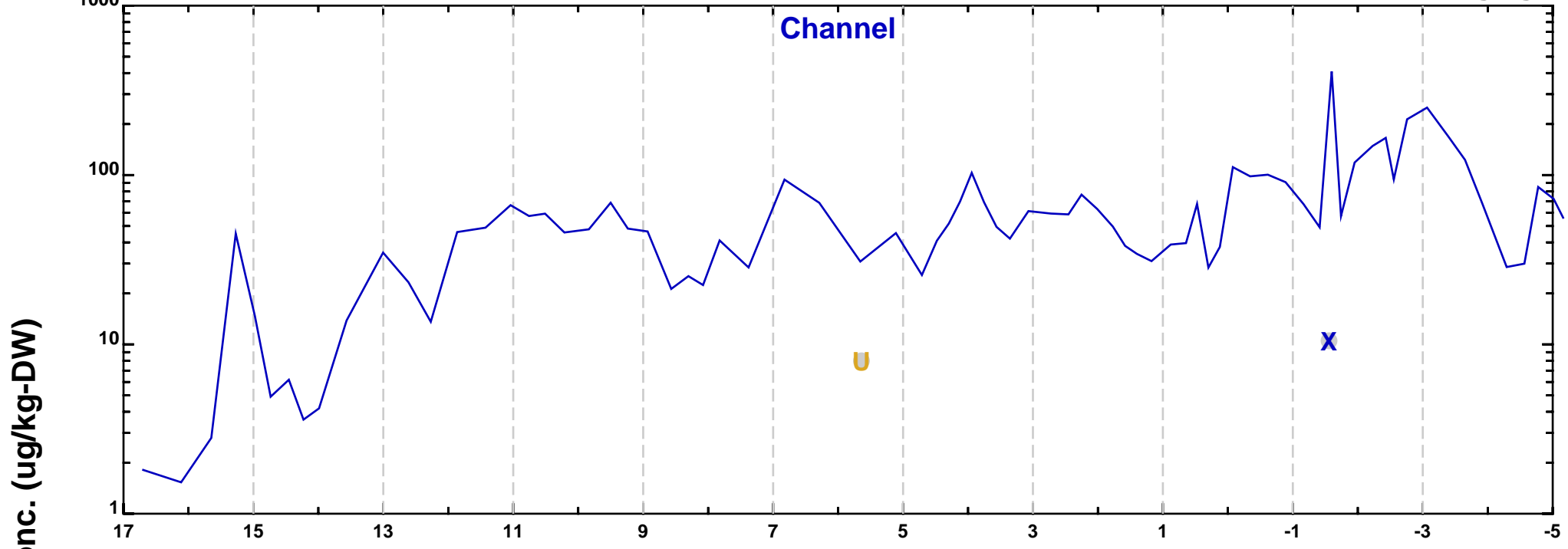
East Newark Bay shoal



River Mile

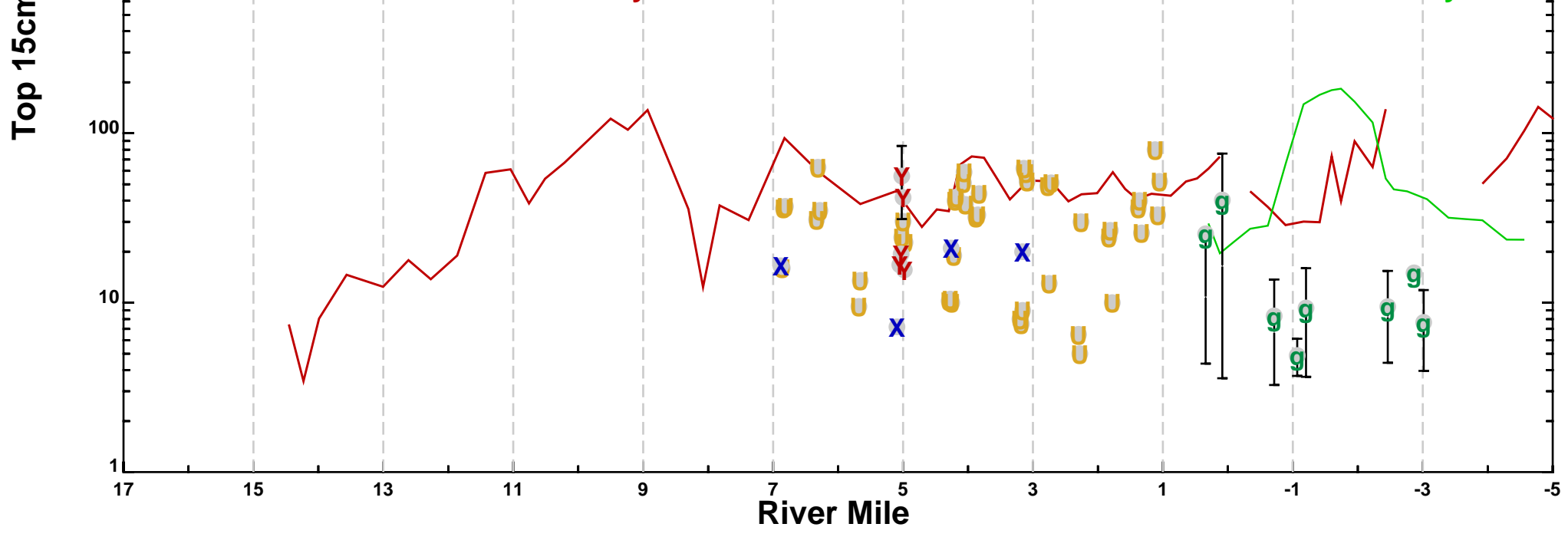
Year = 1999.0

4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

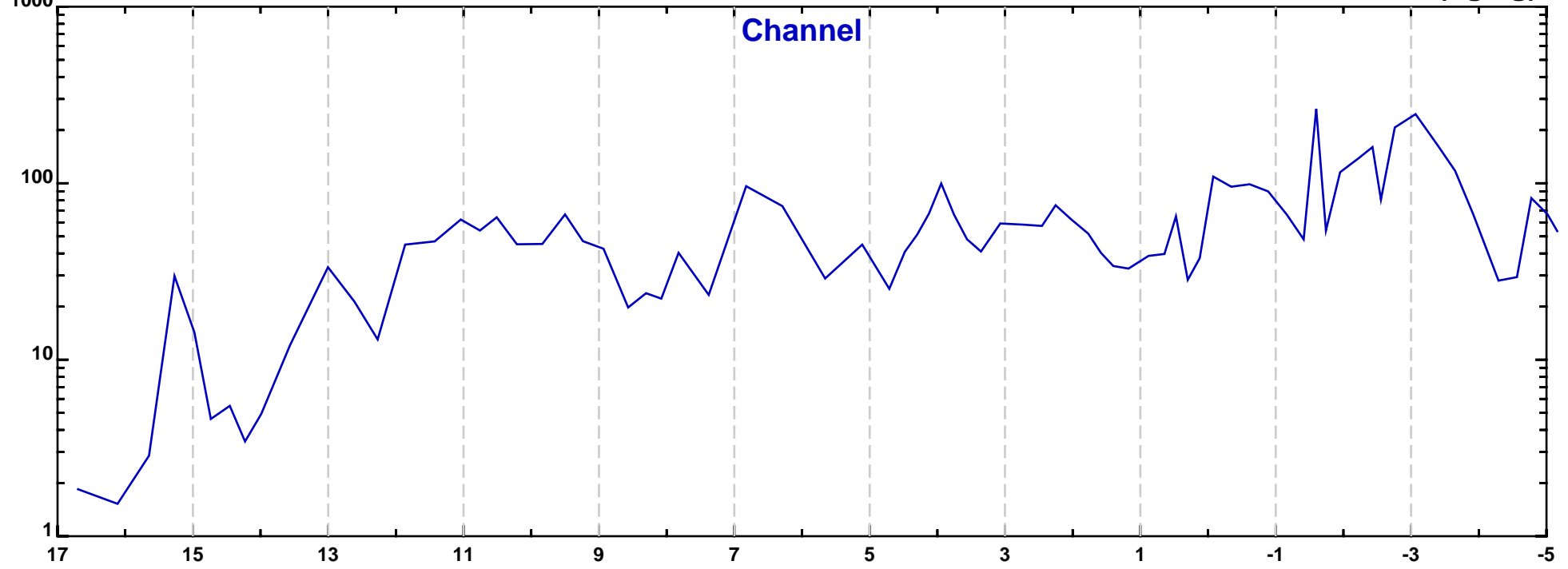


River Mile

Year =2000.0

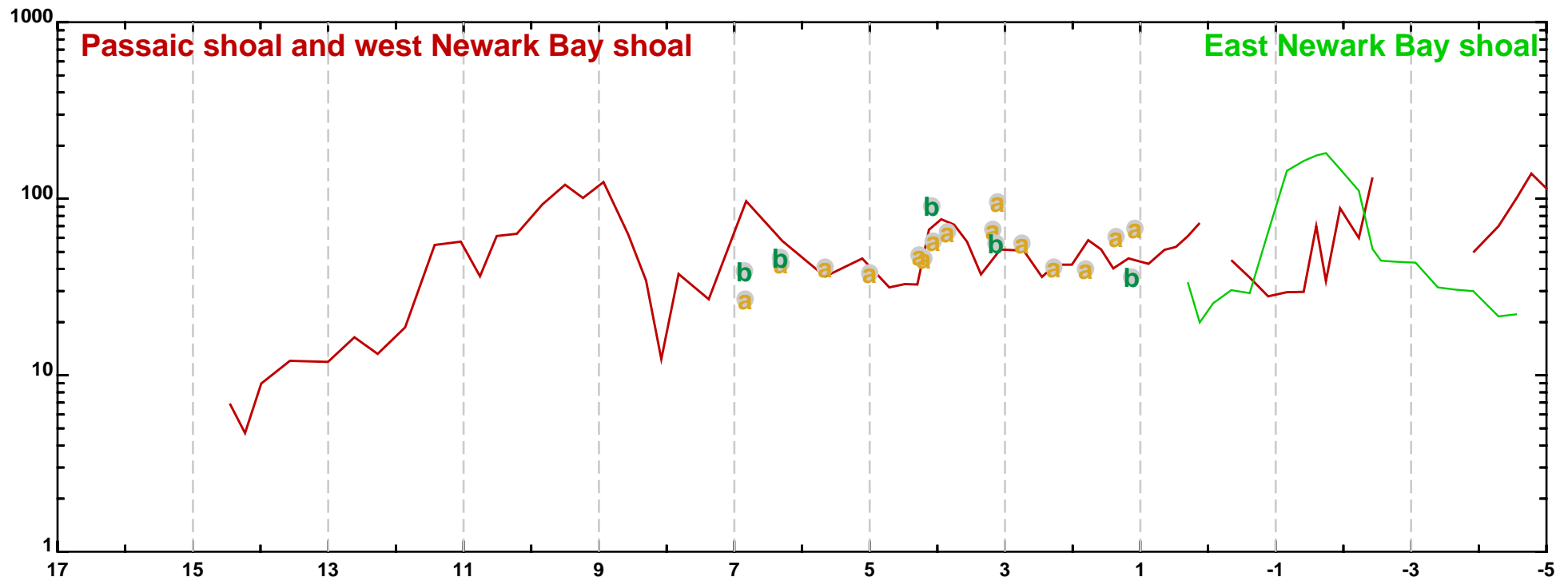
4,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

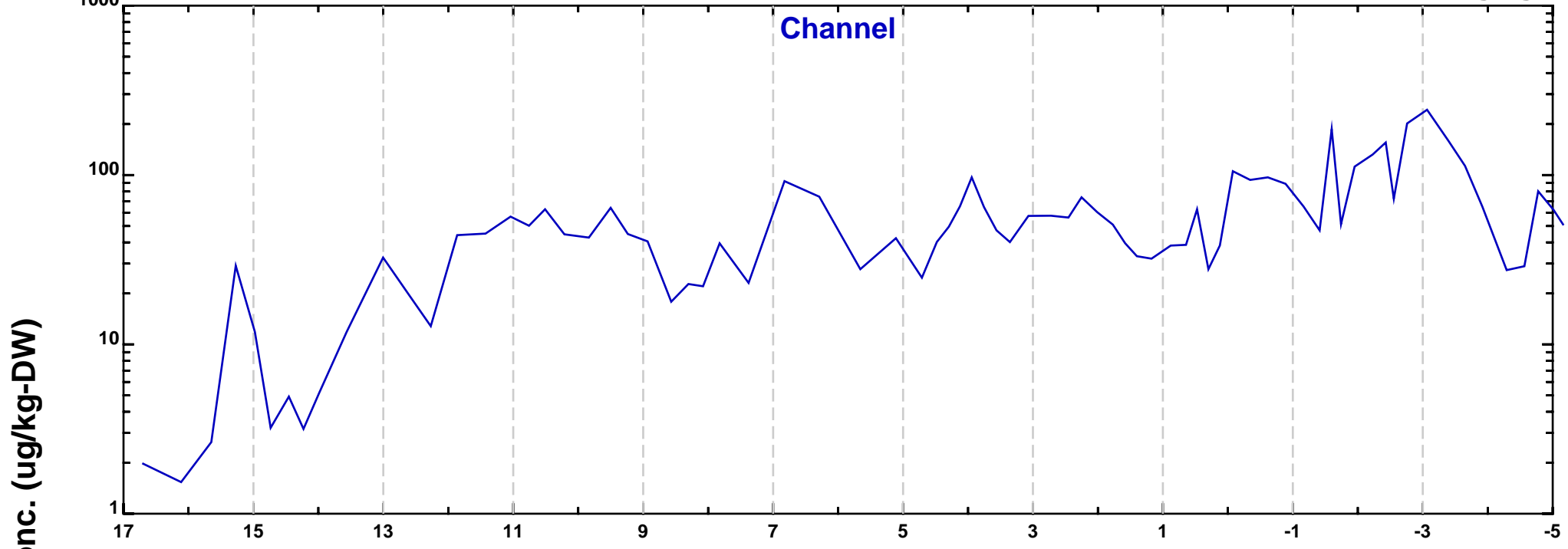
East Newark Bay shoal



River Mile

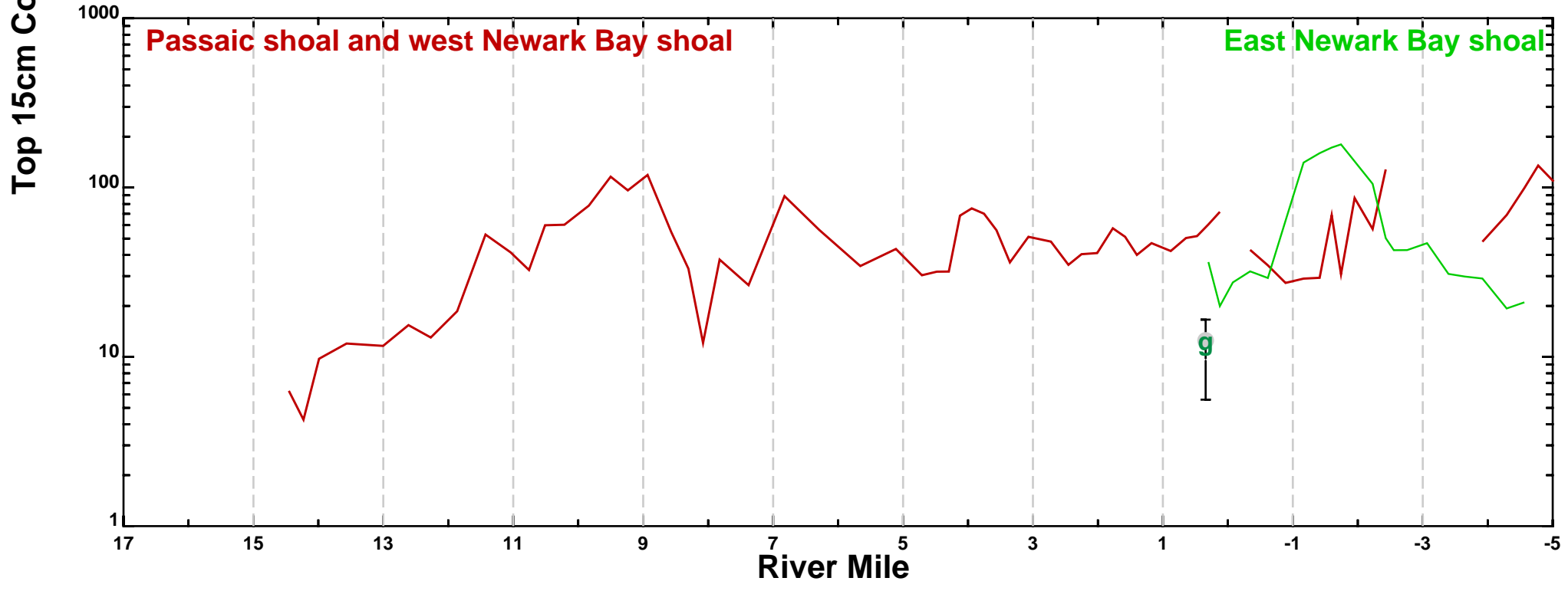
Year =2001.0

4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



Year =2002.0

4,4-DDE (ug/kg)

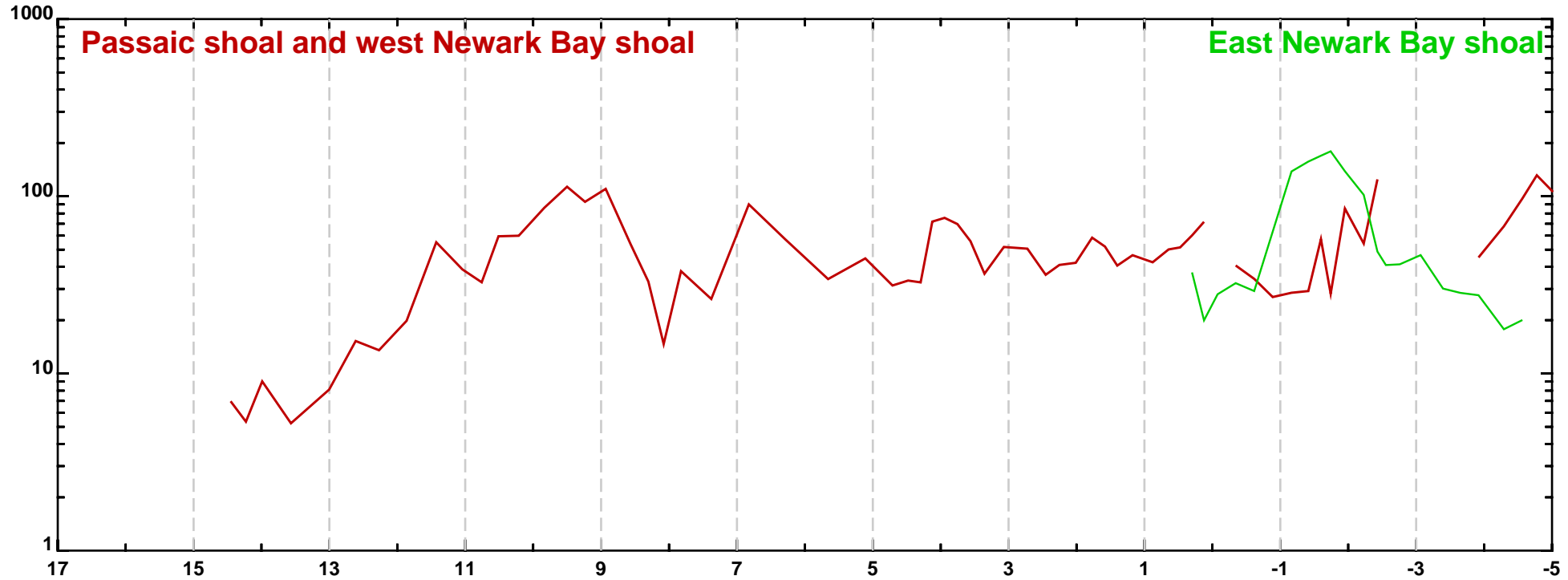
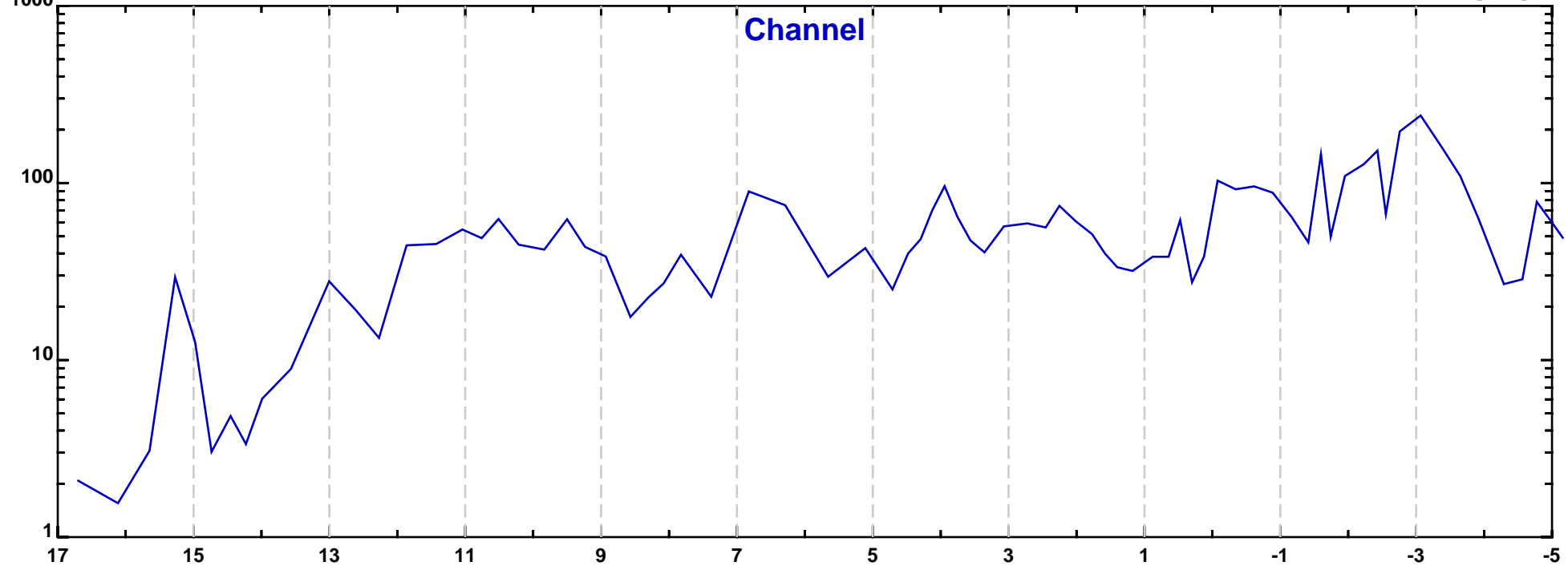
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

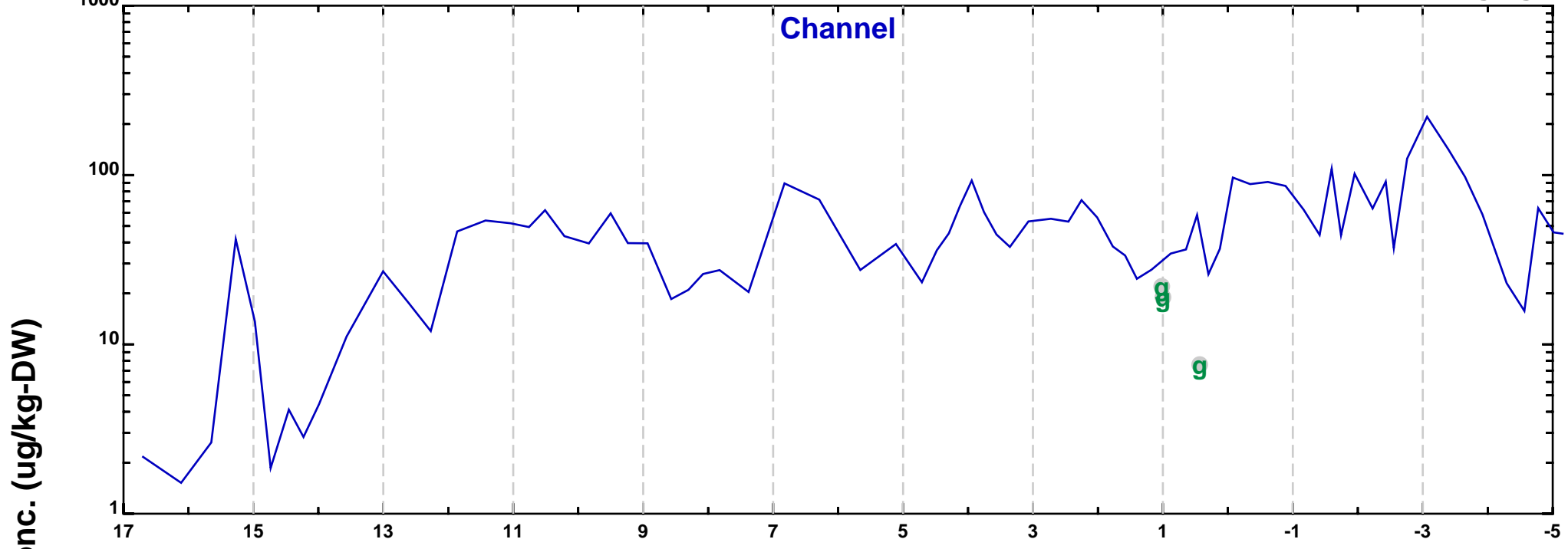
East Newark Bay shoal

River Mile



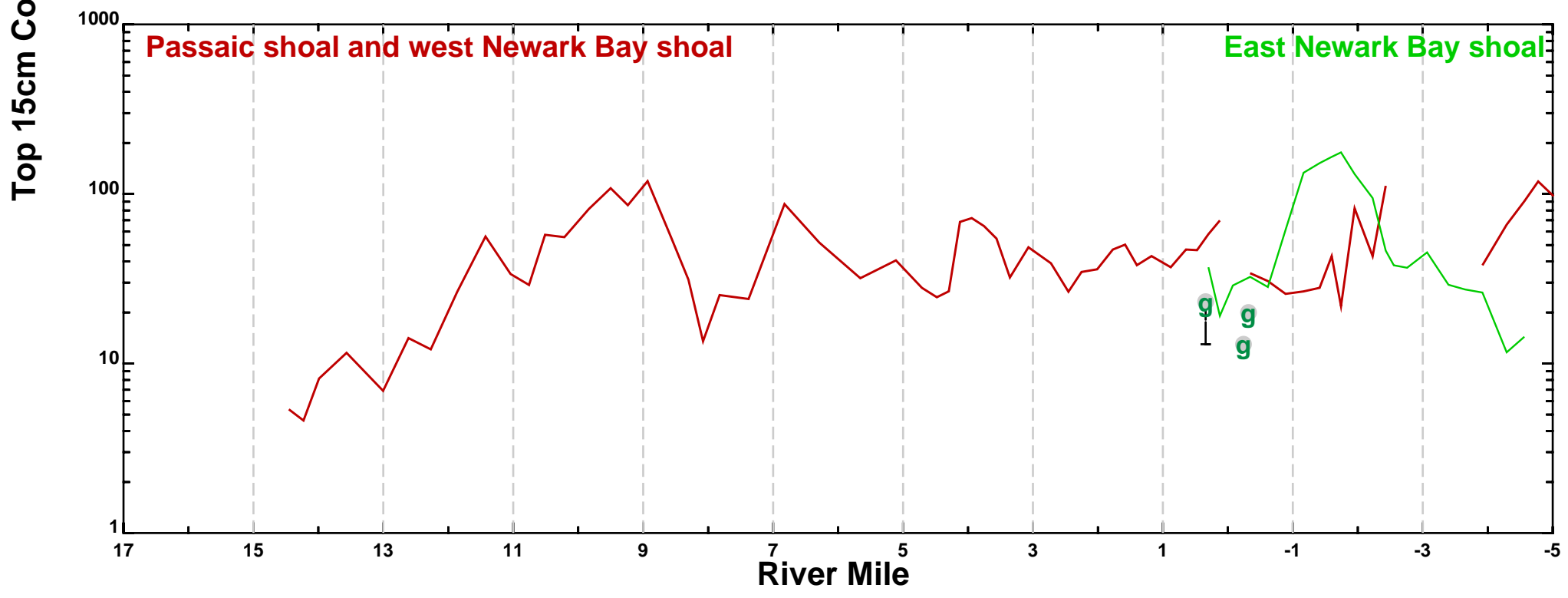
Year = 2003.0

4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

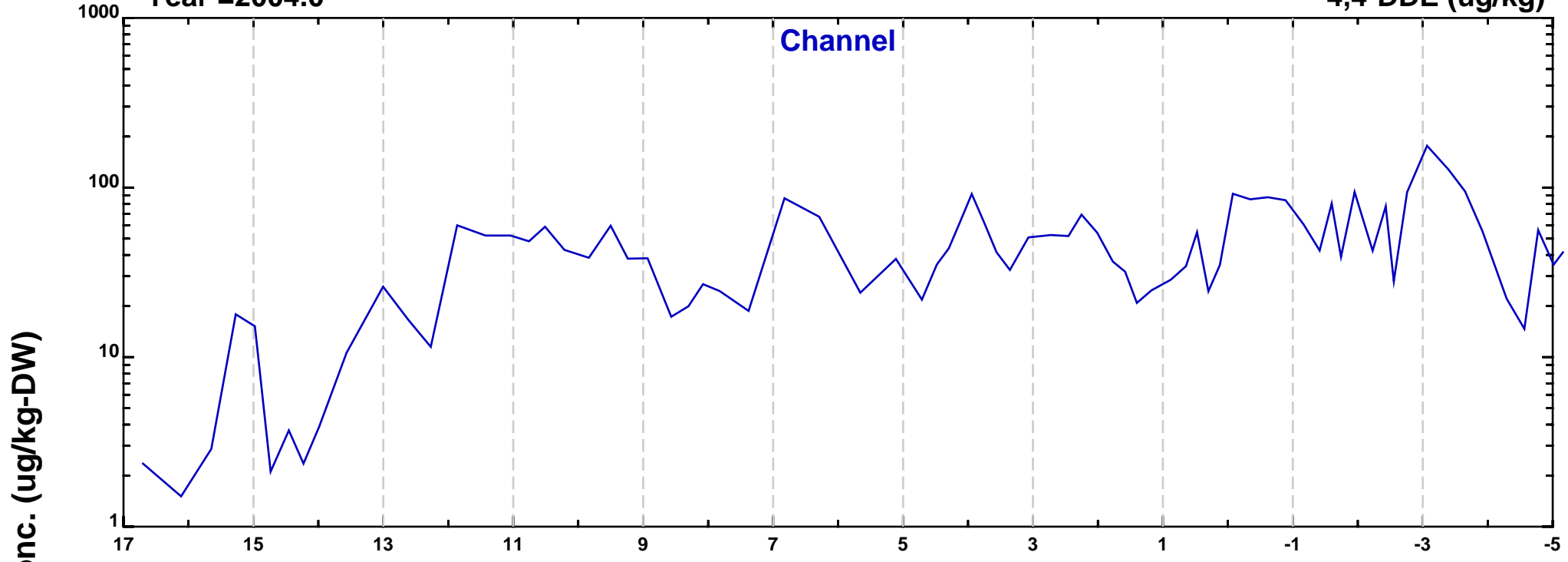
East Newark Bay shoal





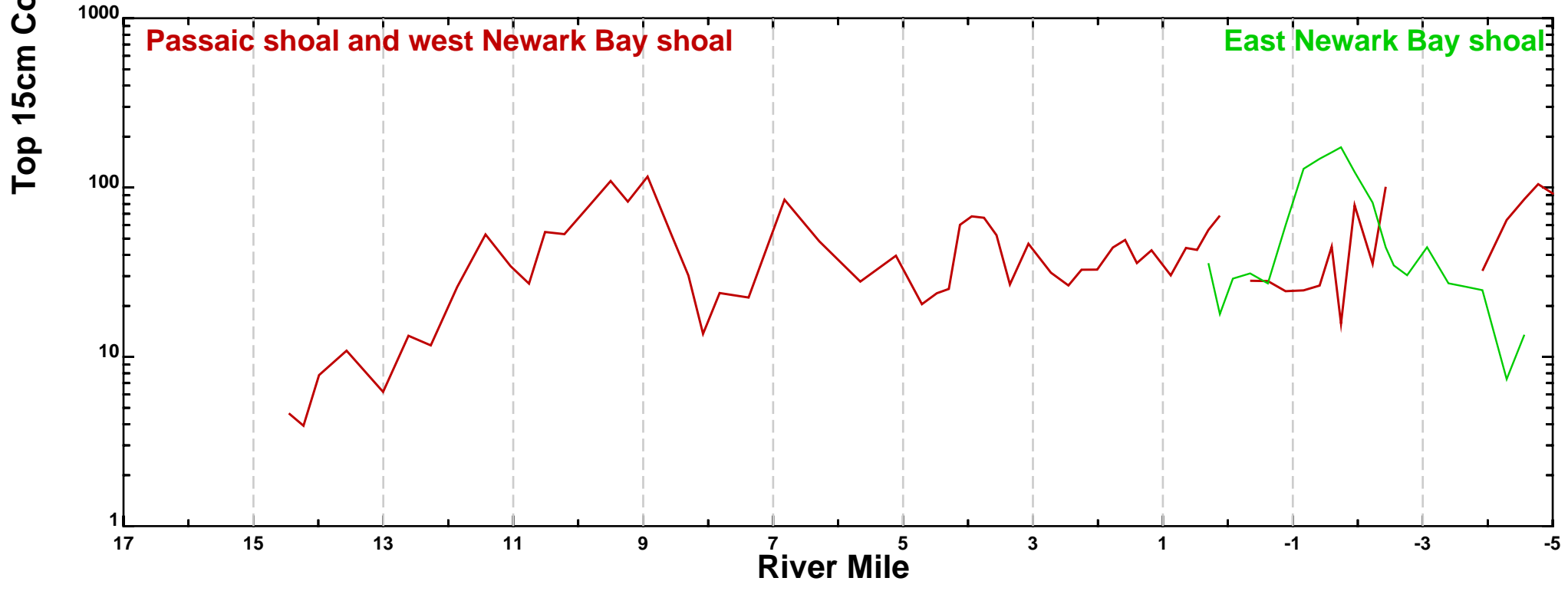
Year =2004.0

4,4-DDE (ug/kg)

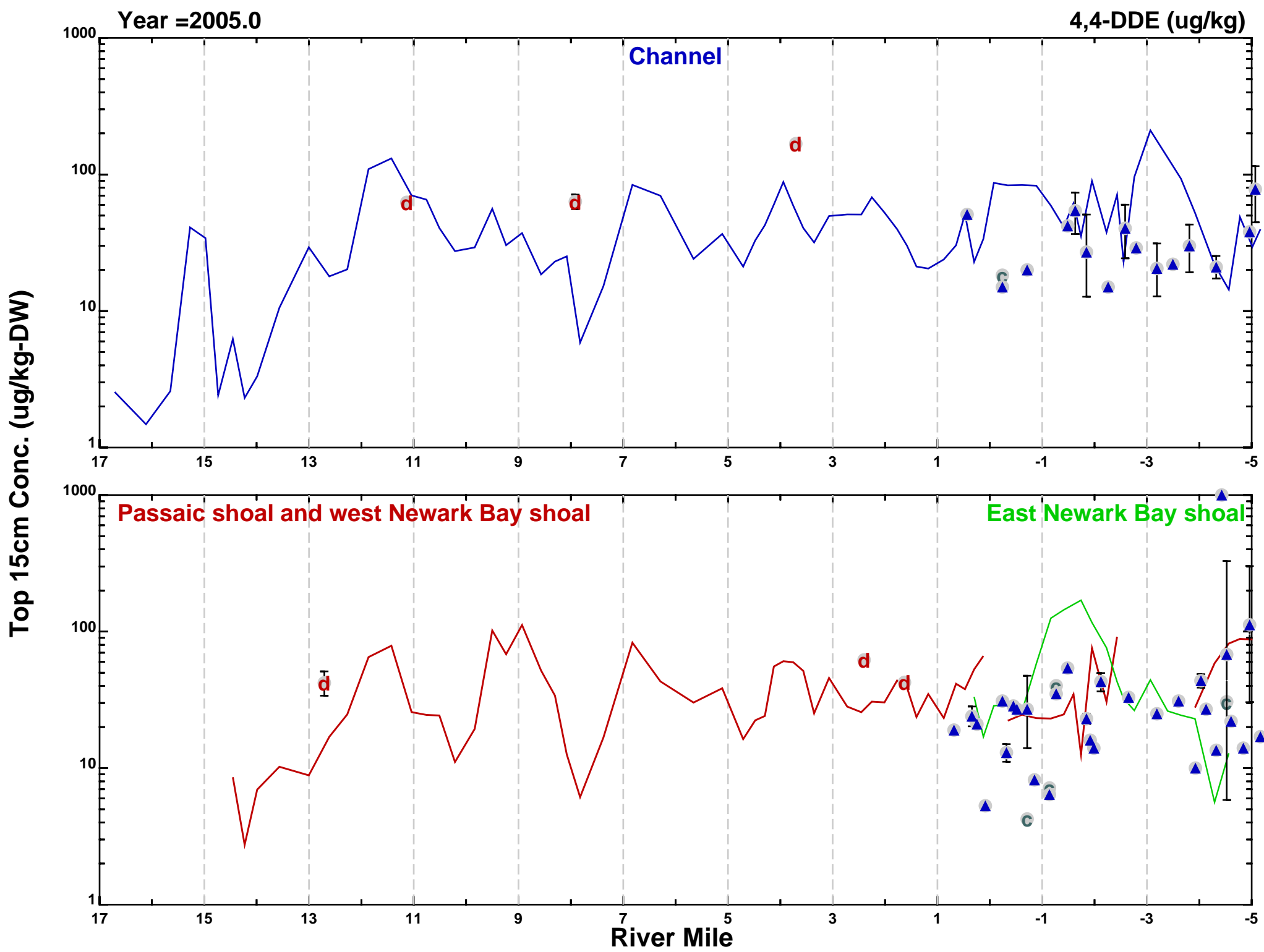


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

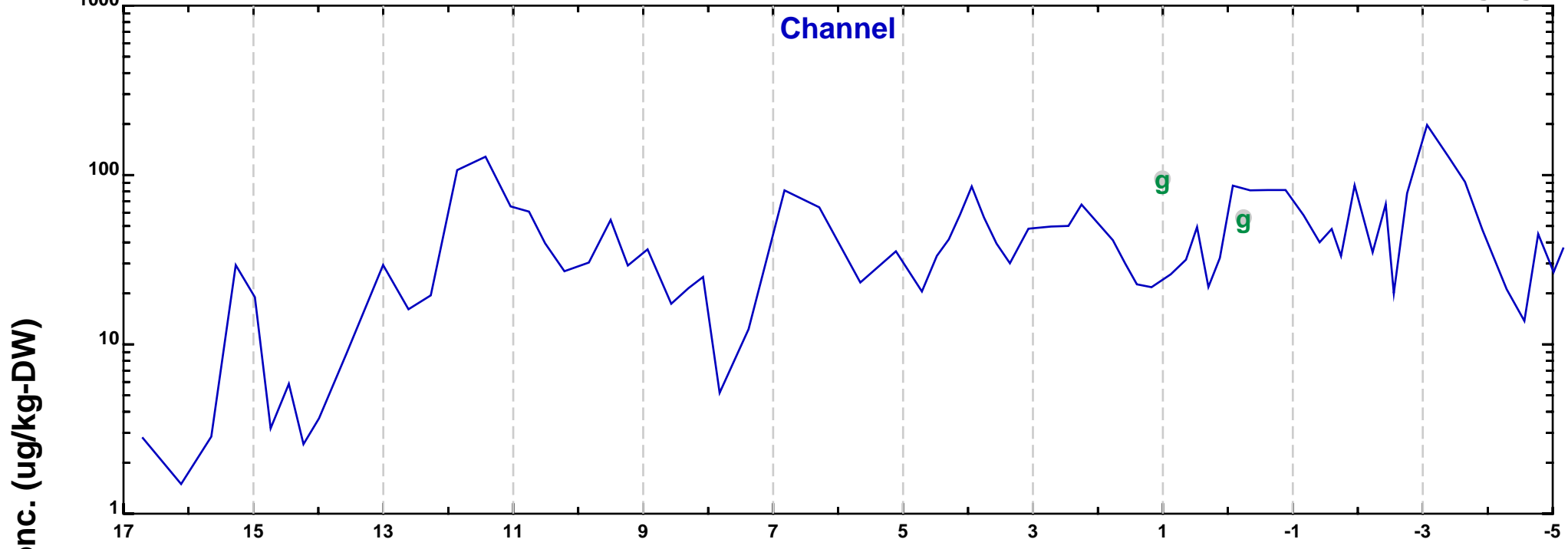


River Mile



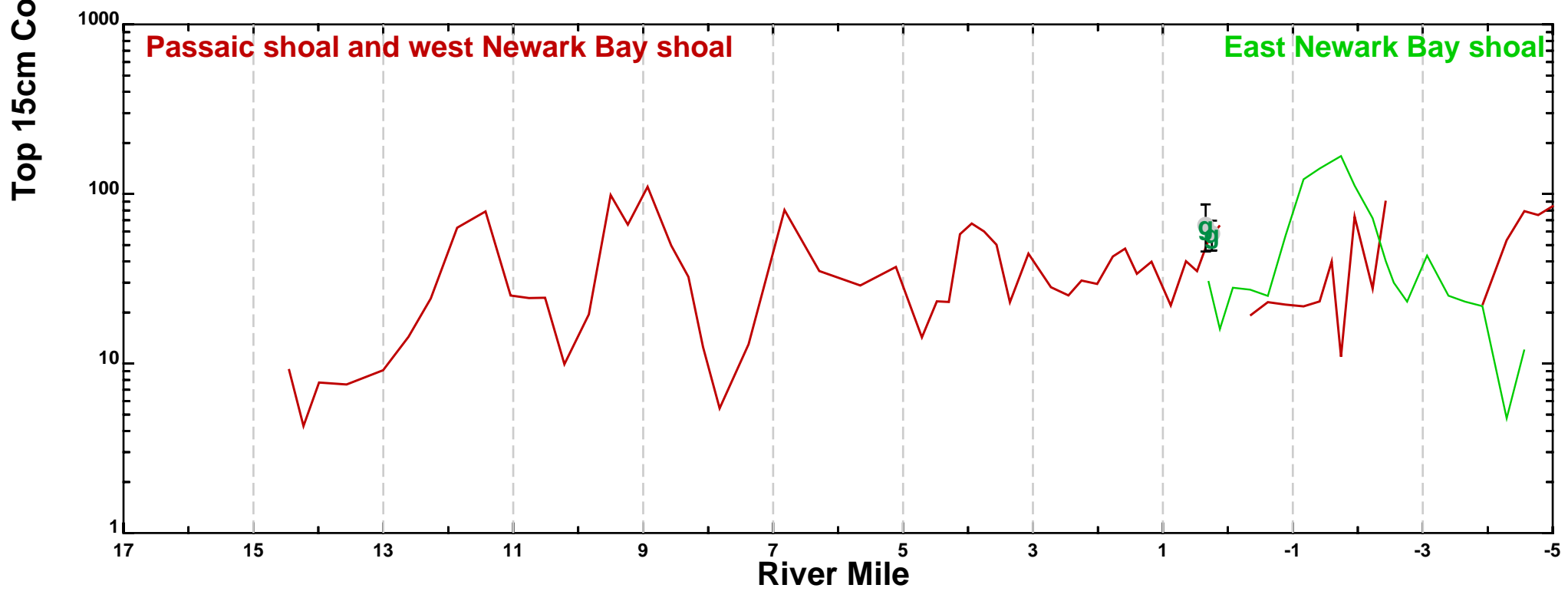
Year =2006.0

4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

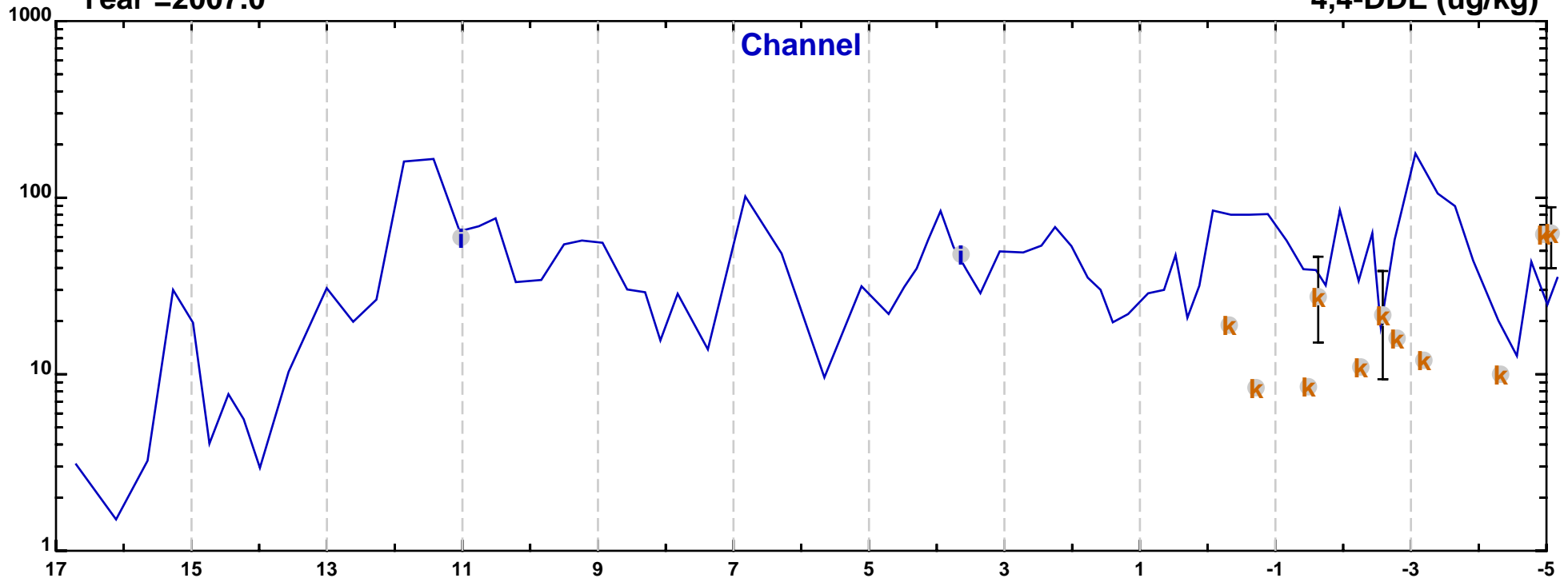


Year =2007.0

4,4-DDE (ug/kg)

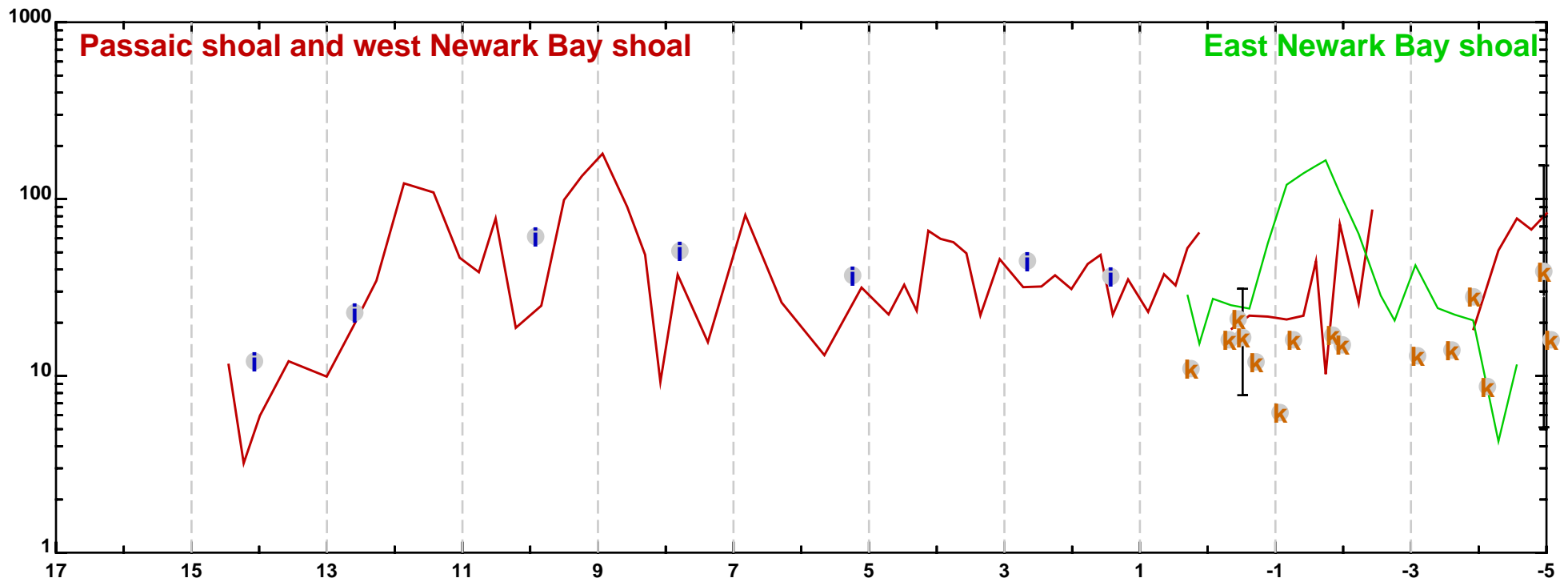
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



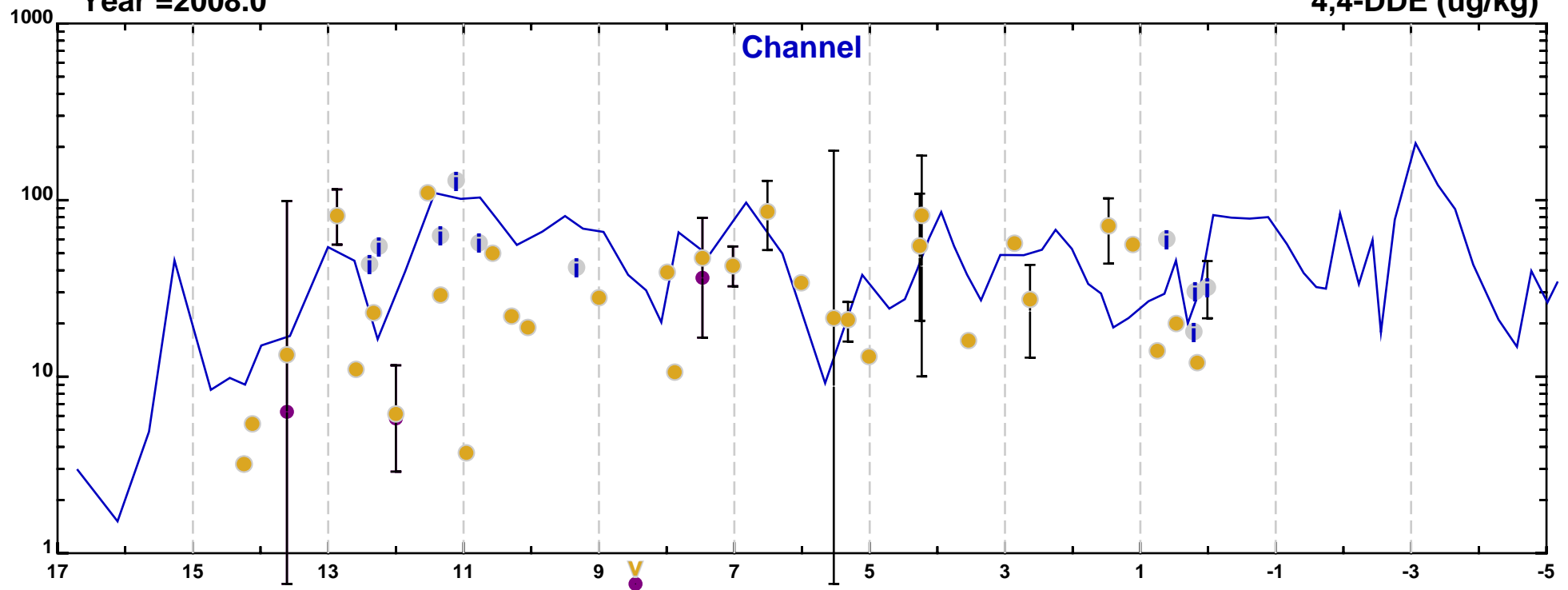
River Mile

Year =2008.0

4,4-DDE (ug/kg)

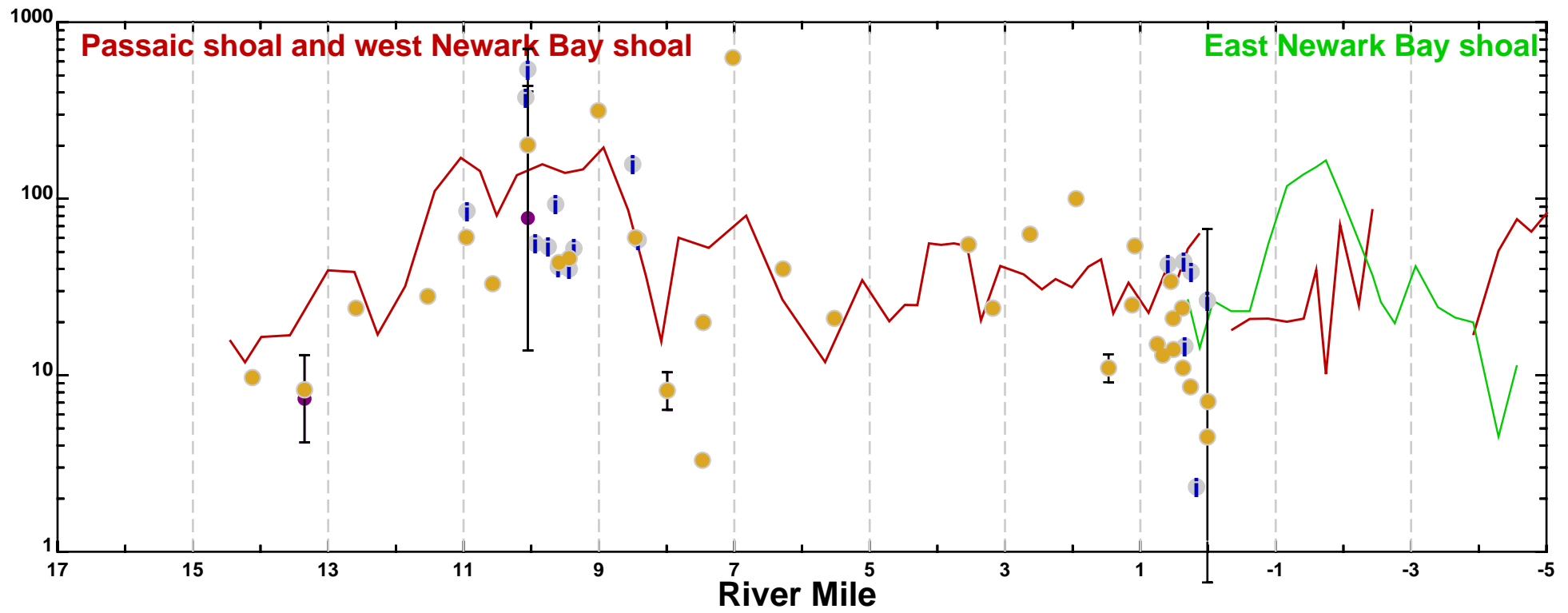
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



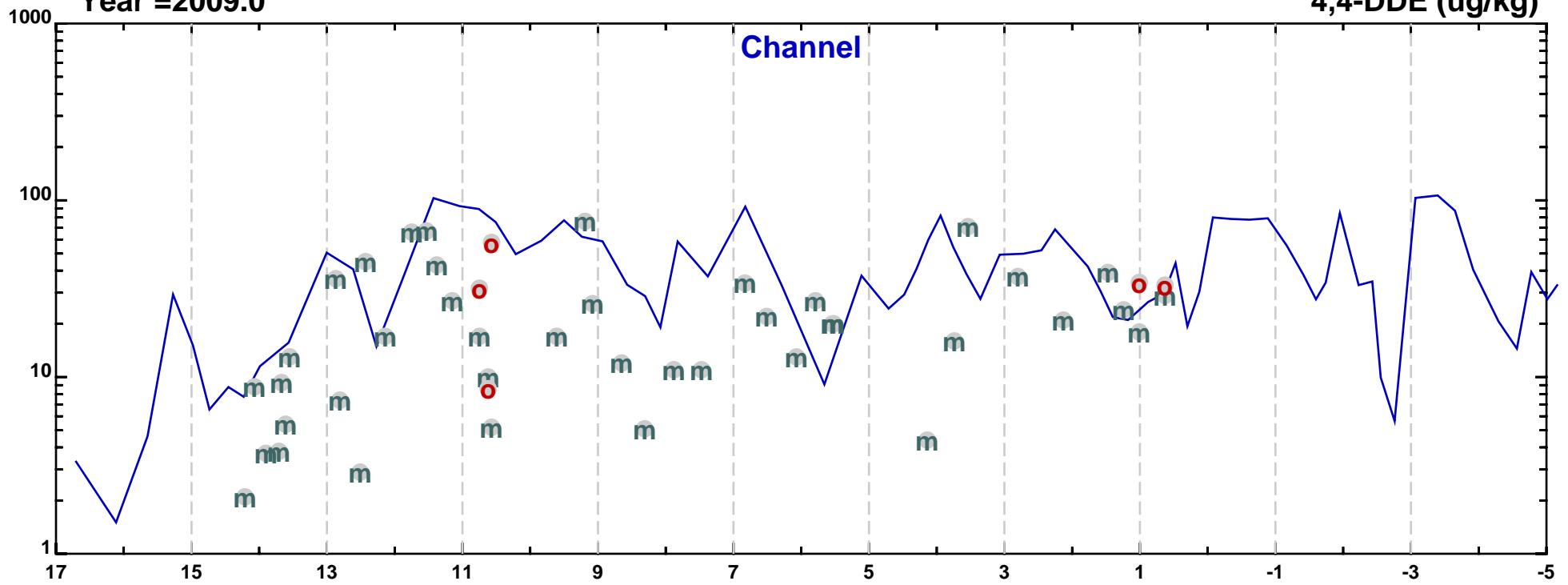
River Mile

Year =2009.0

4,4-DDE (ug/kg)

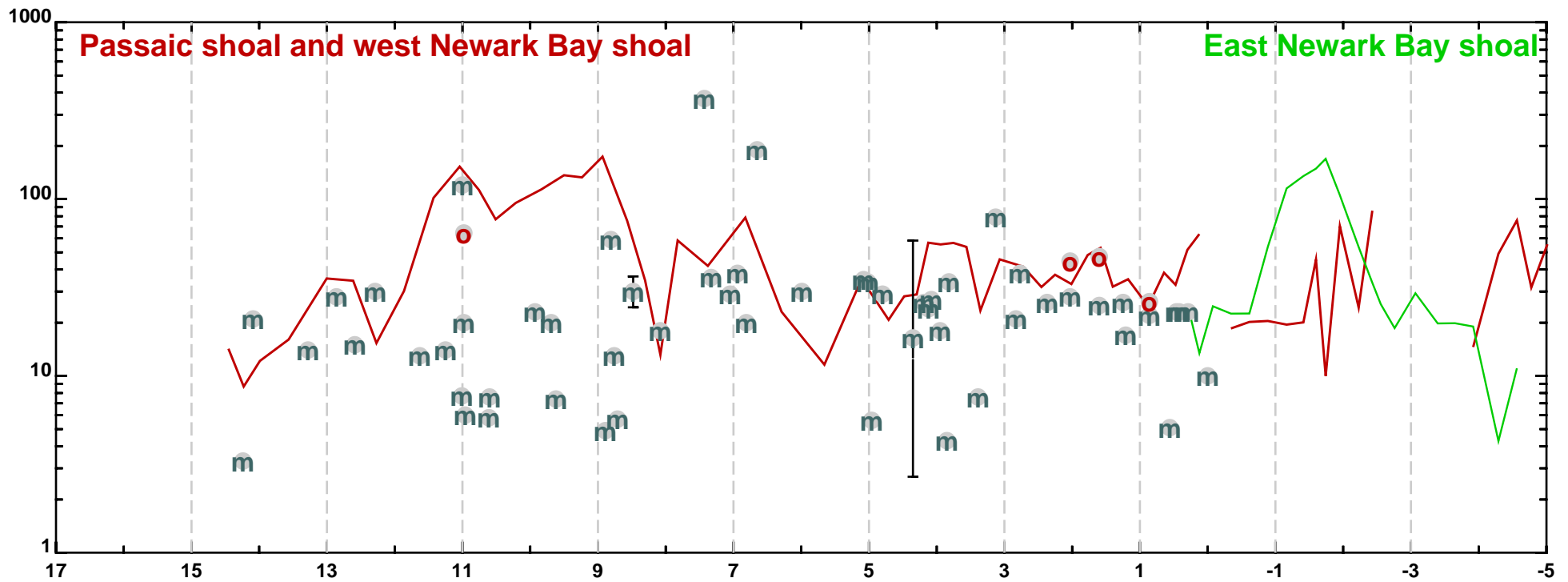
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

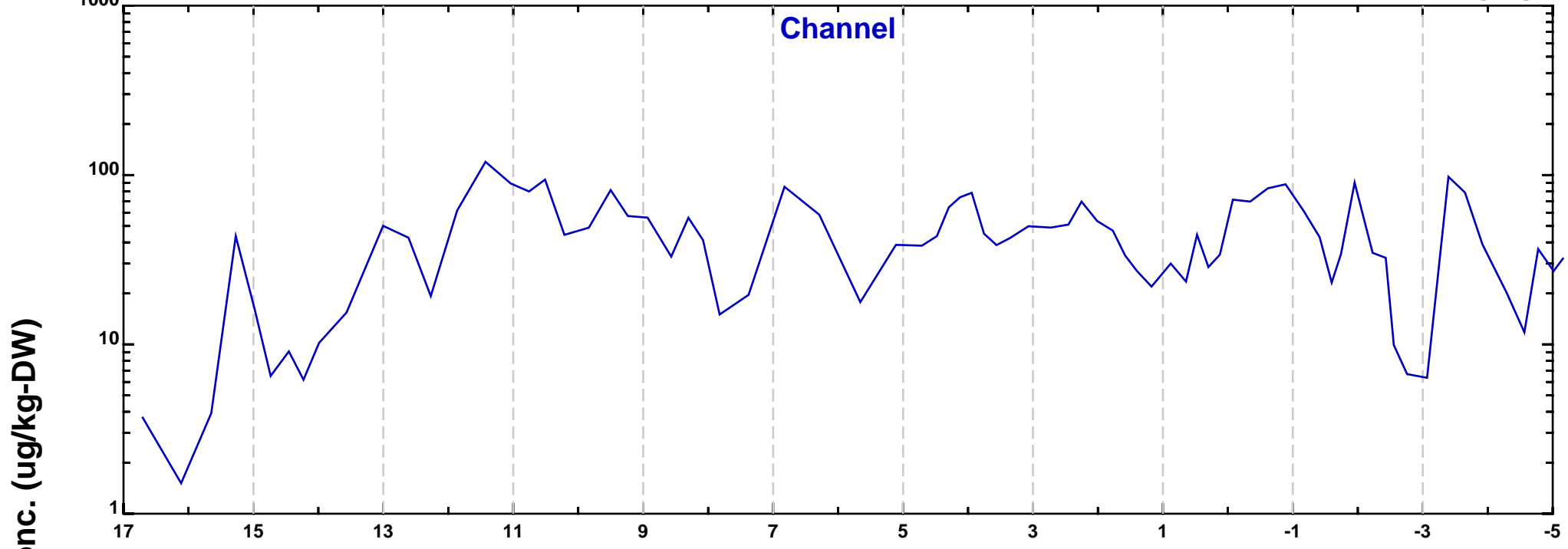
East Newark Bay shoal



River Mile

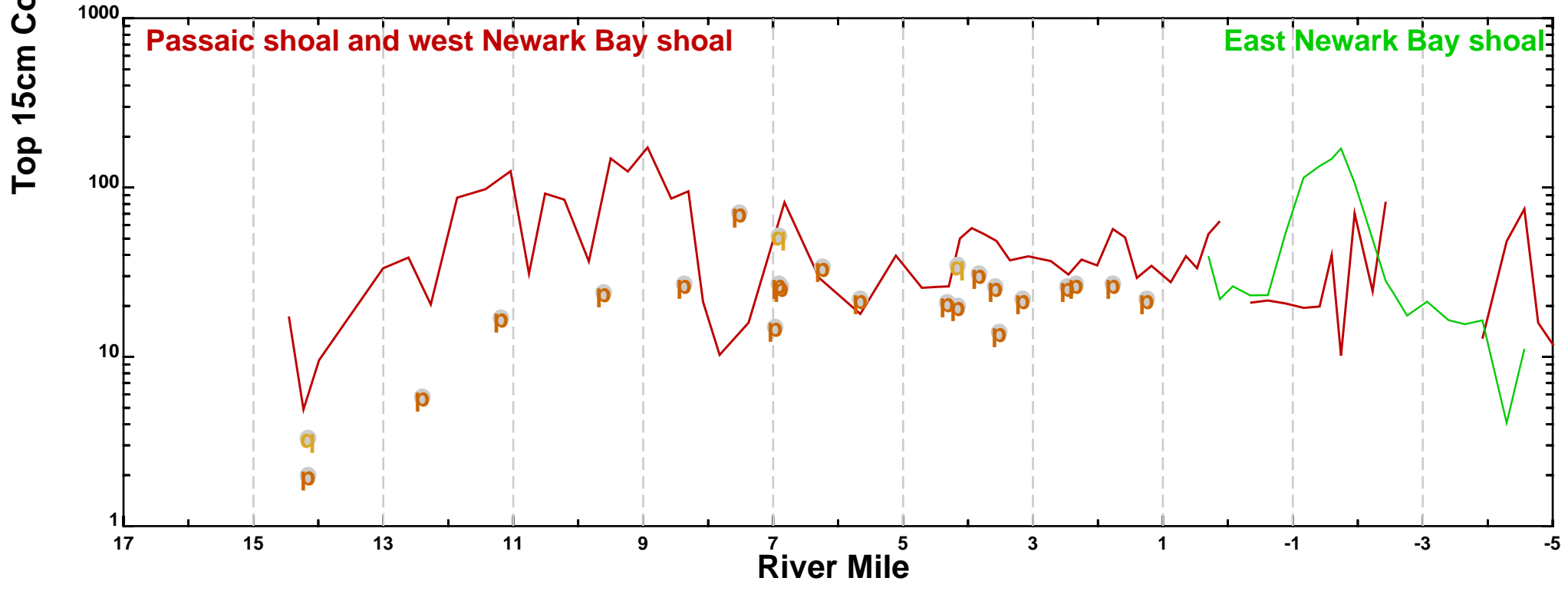
Year =2010.0

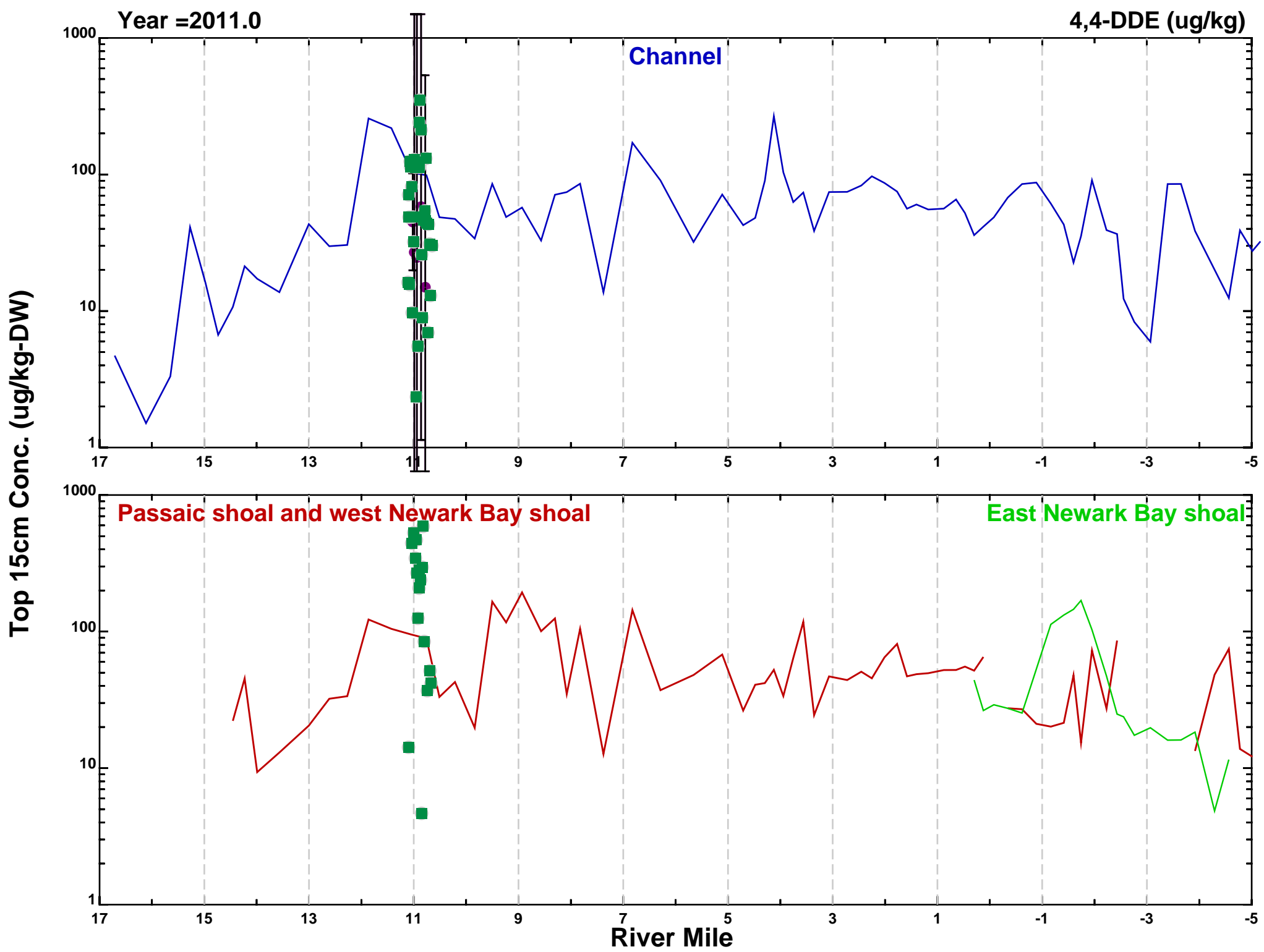
4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



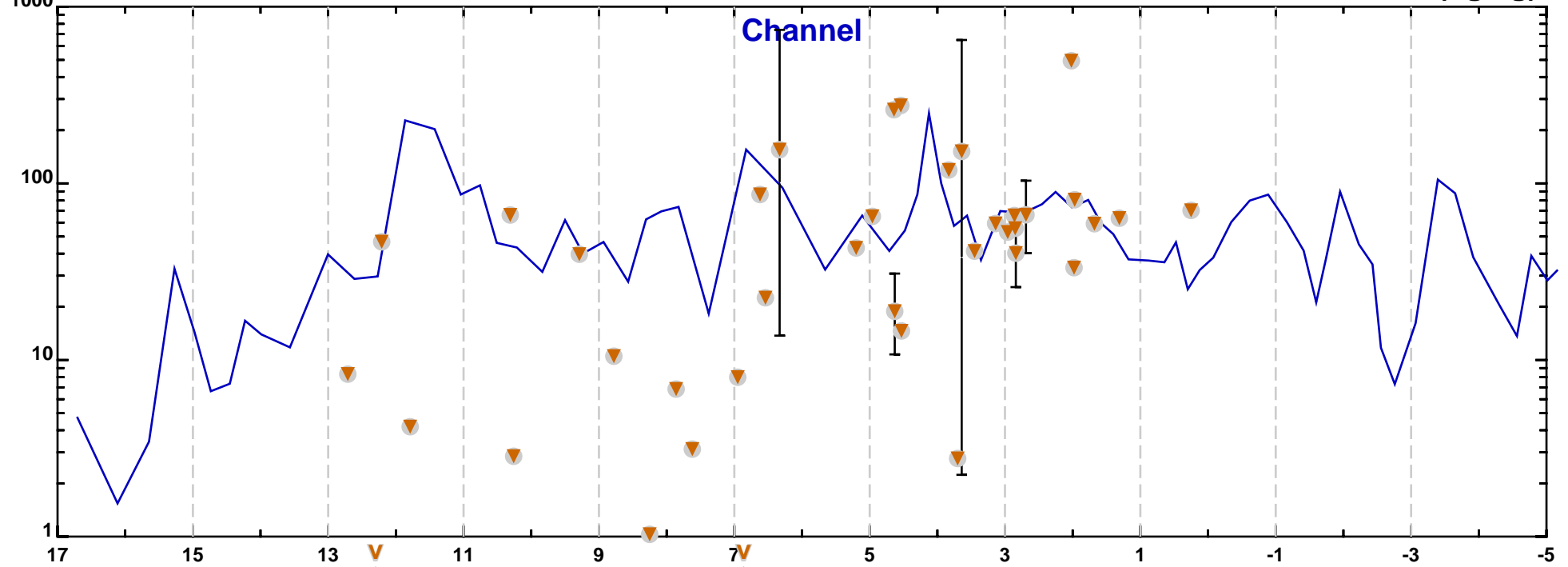




Year =2012.0

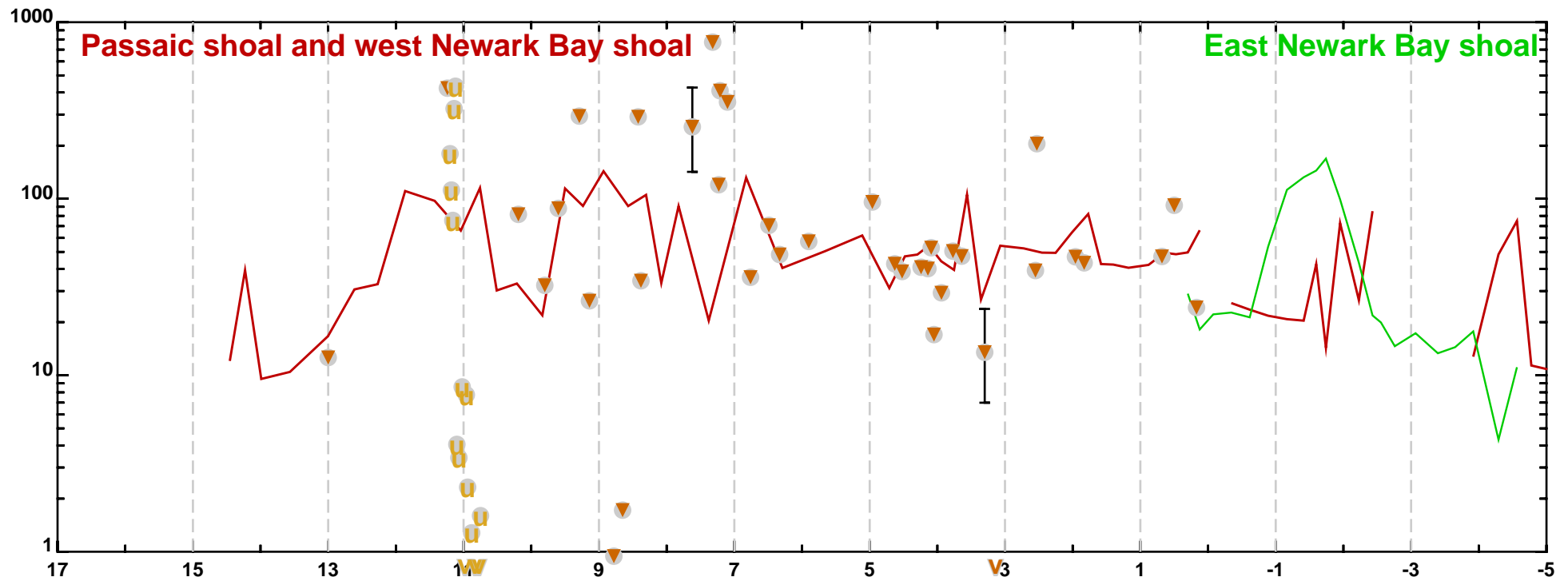
4,4-DDE (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

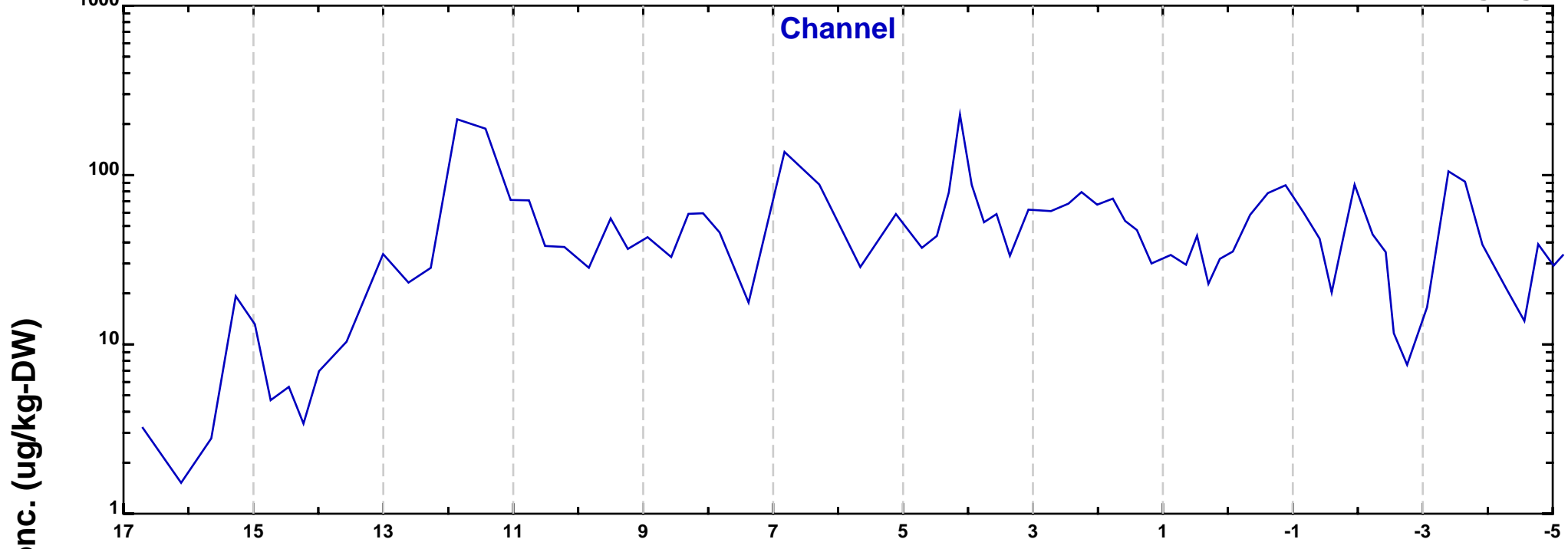
East Newark Bay shoal



River Mile

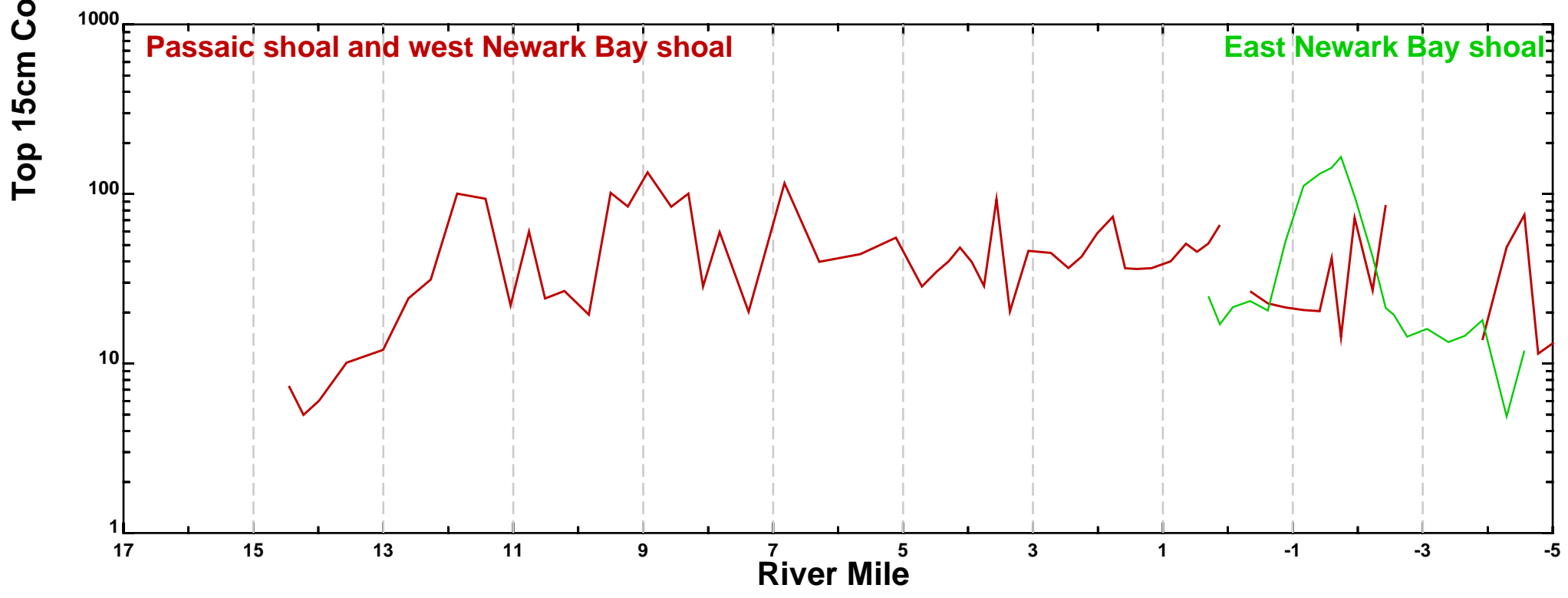
Year =2013.0

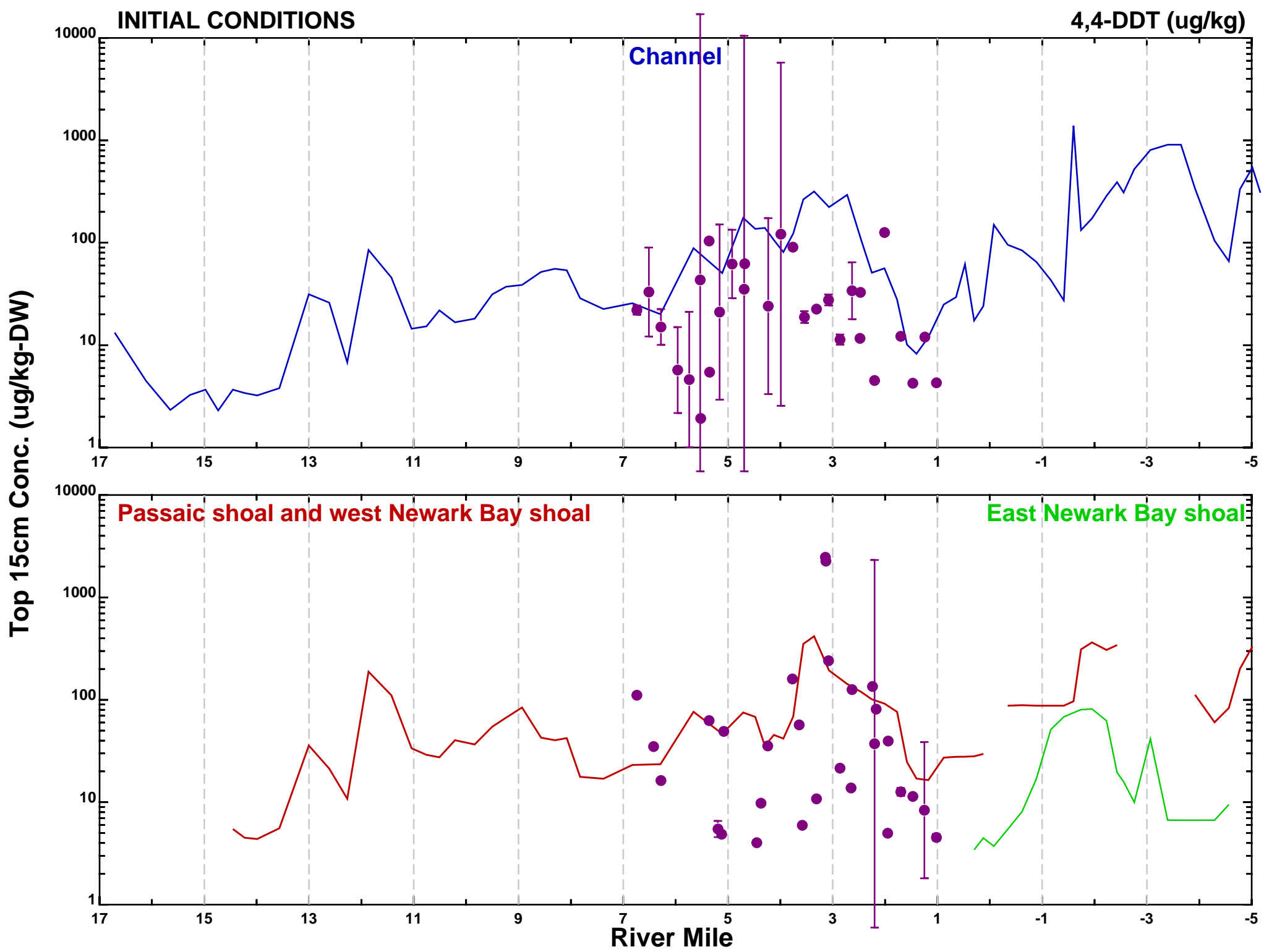
4,4-DDE (ug/kg)



Passaic shoal and west Newark Bay shoal

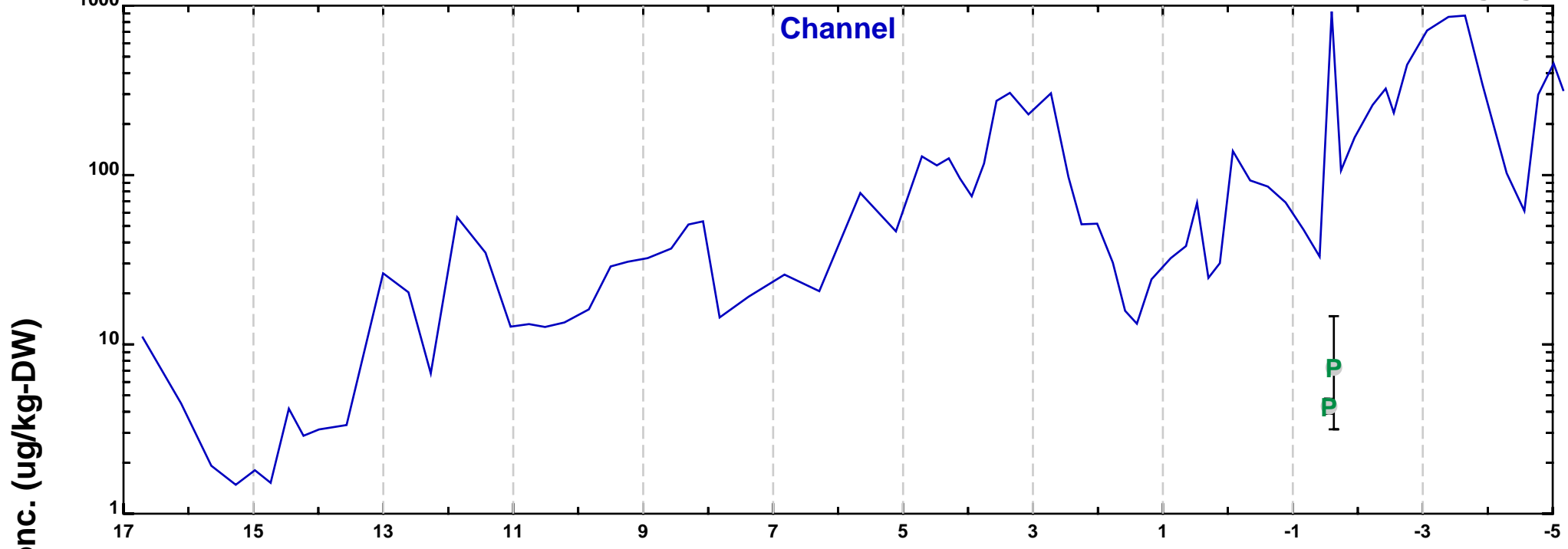
East Newark Bay shoal





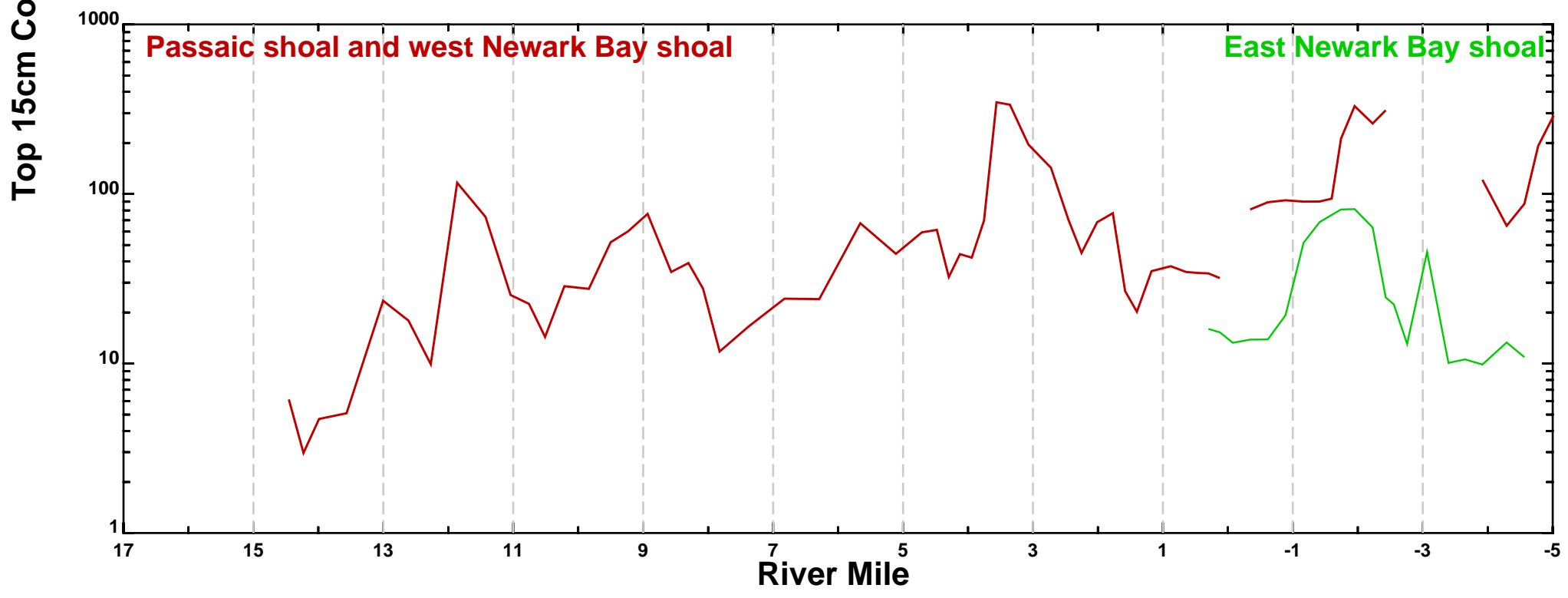
Year = 1996.0

4,4-DDT (ug/kg)

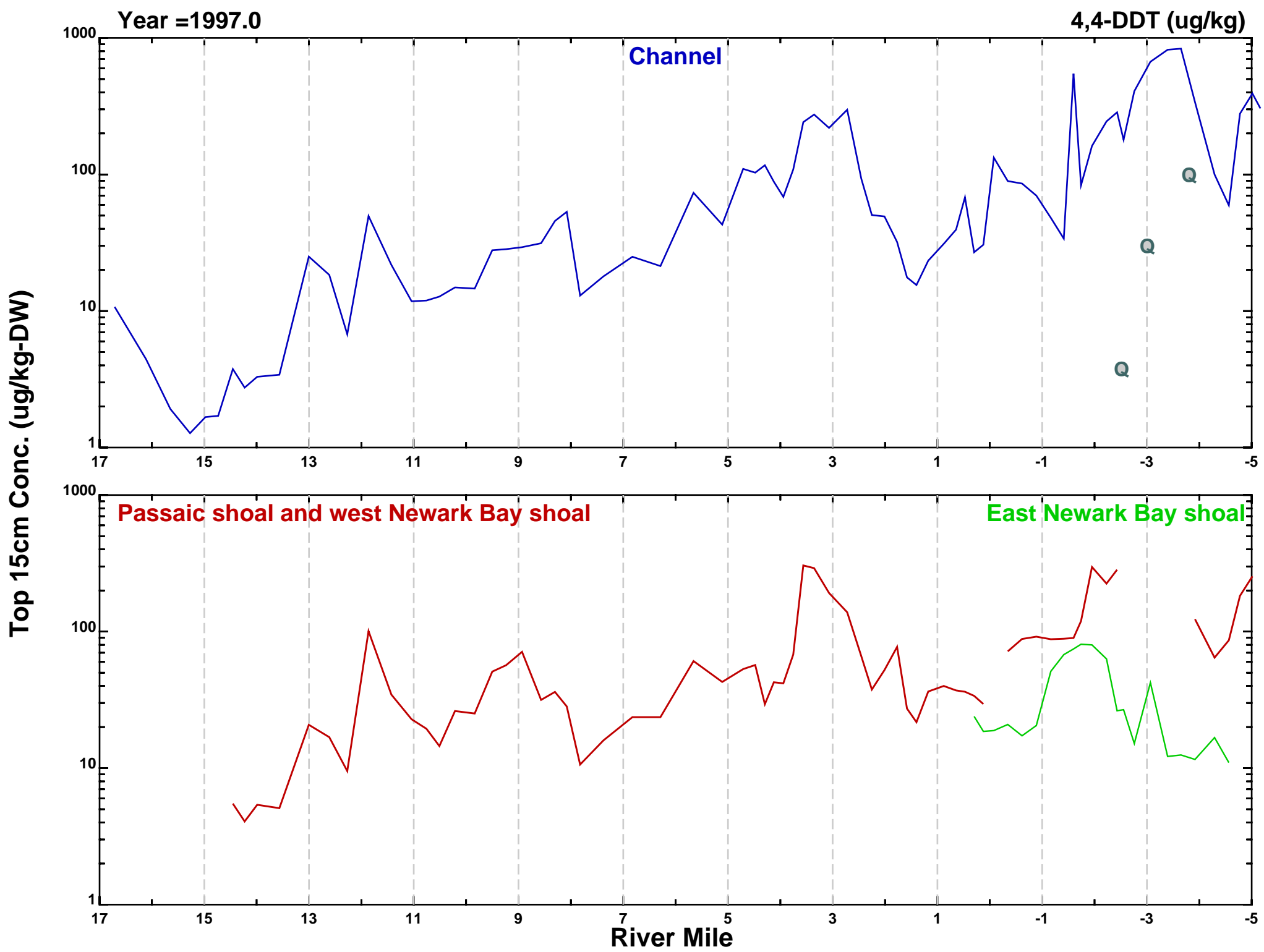


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

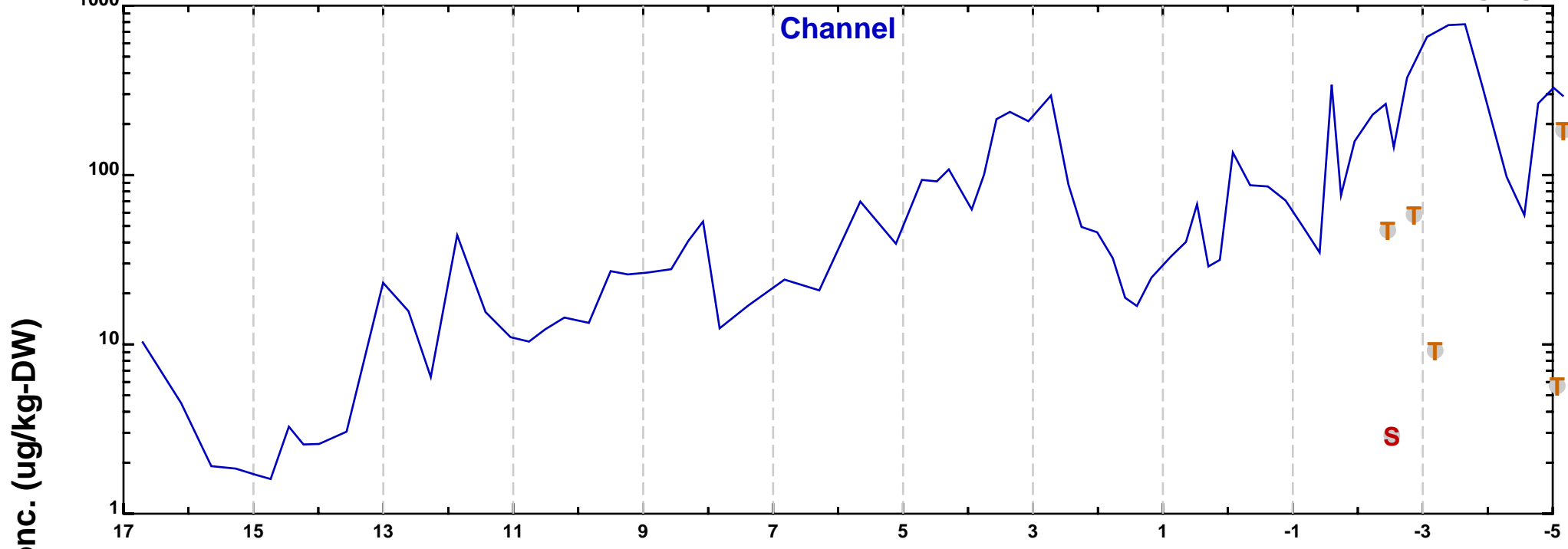


River Mile



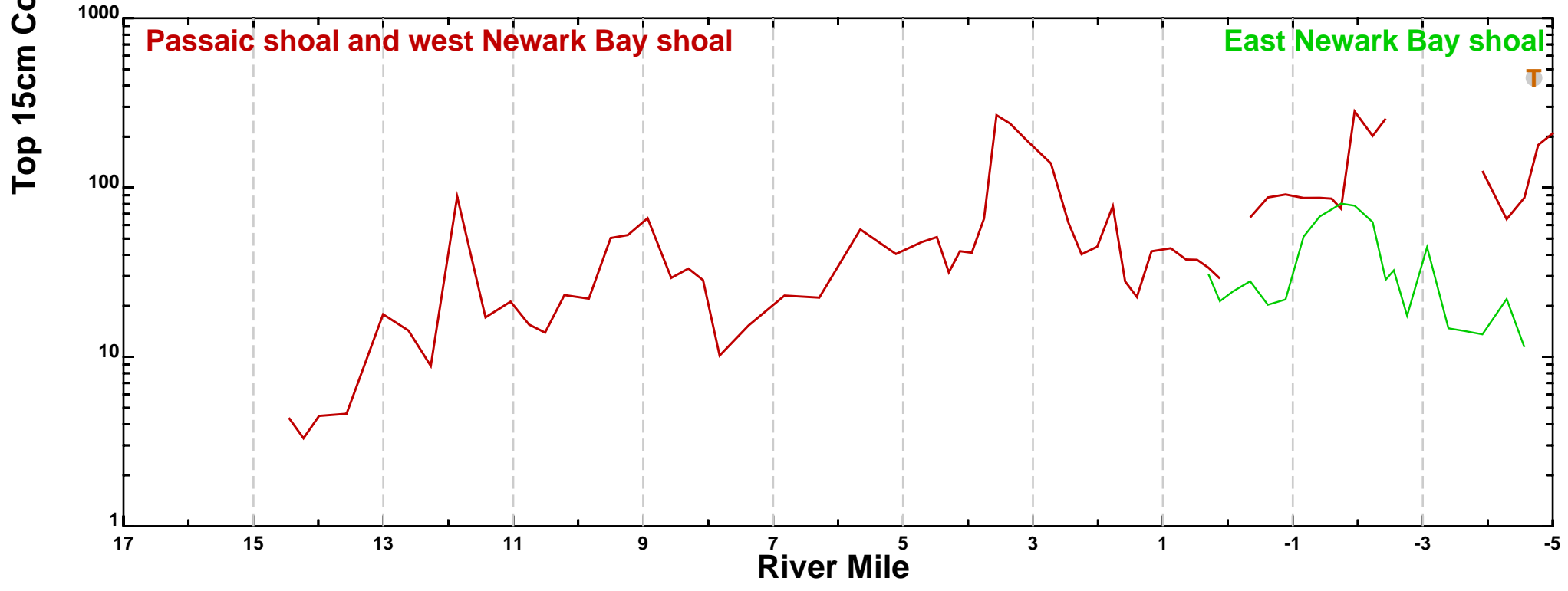
Year = 1998.0

4,4-DDT (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

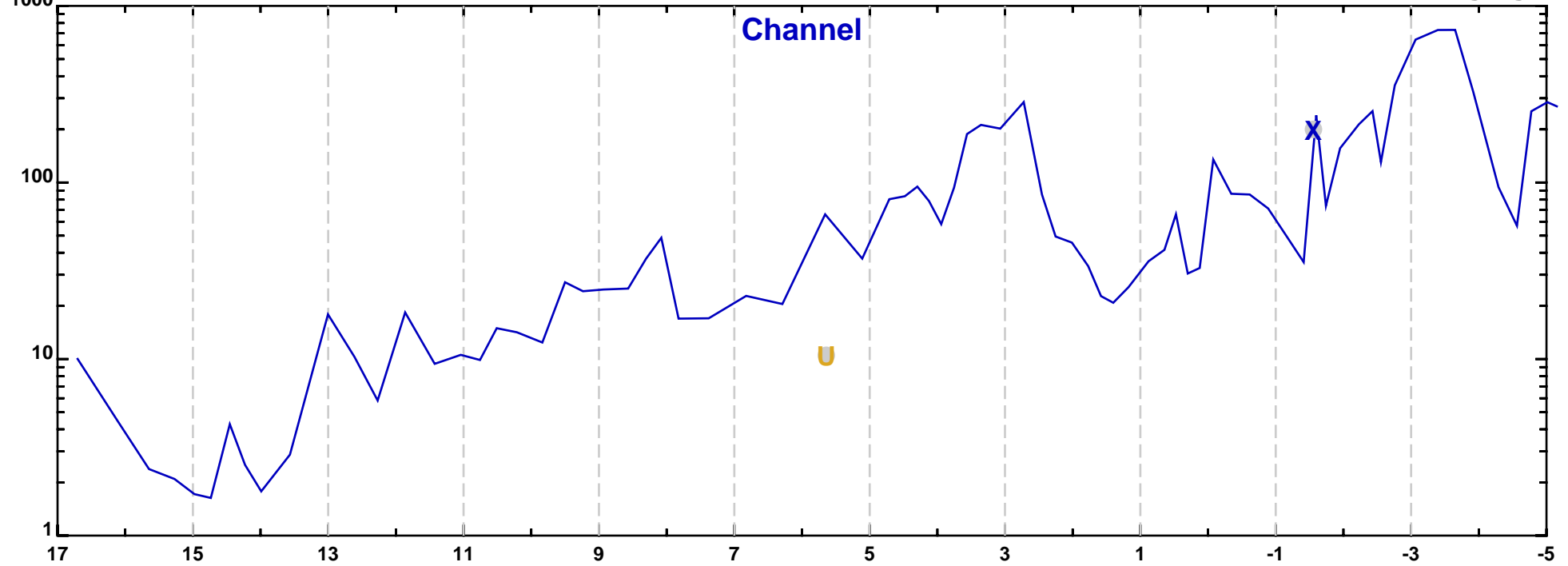


River Mile

Year = 1999.0

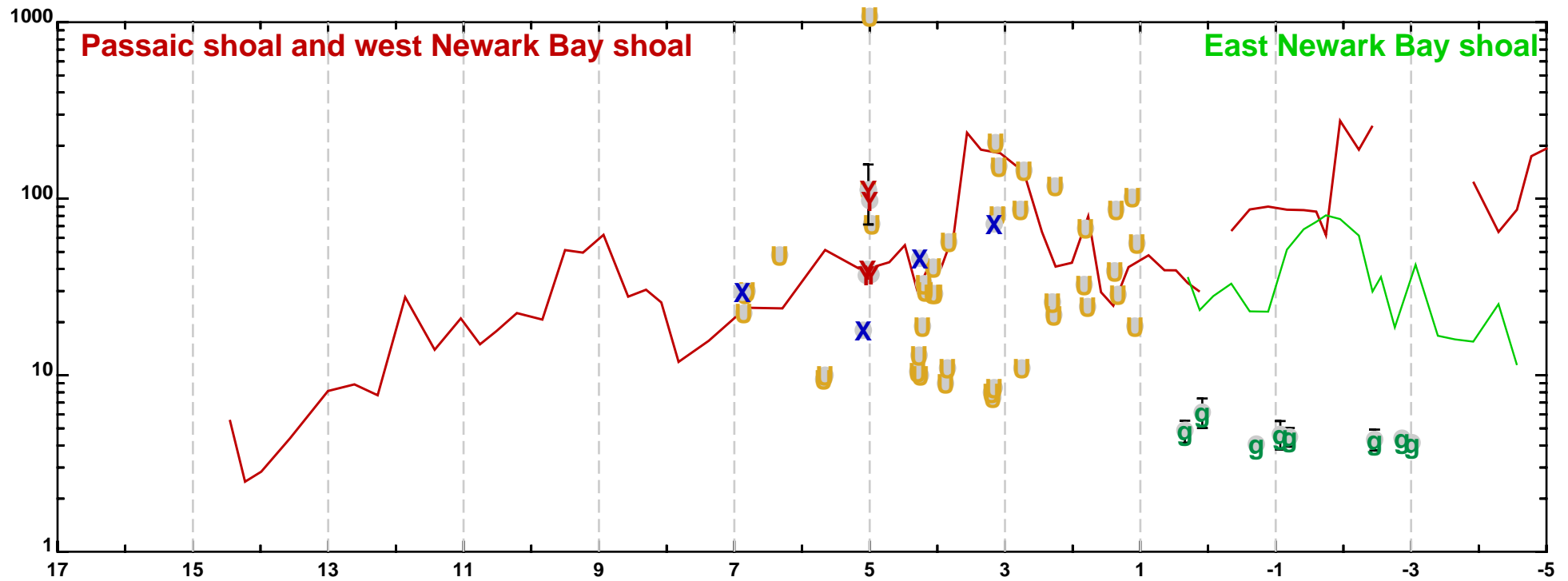
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)

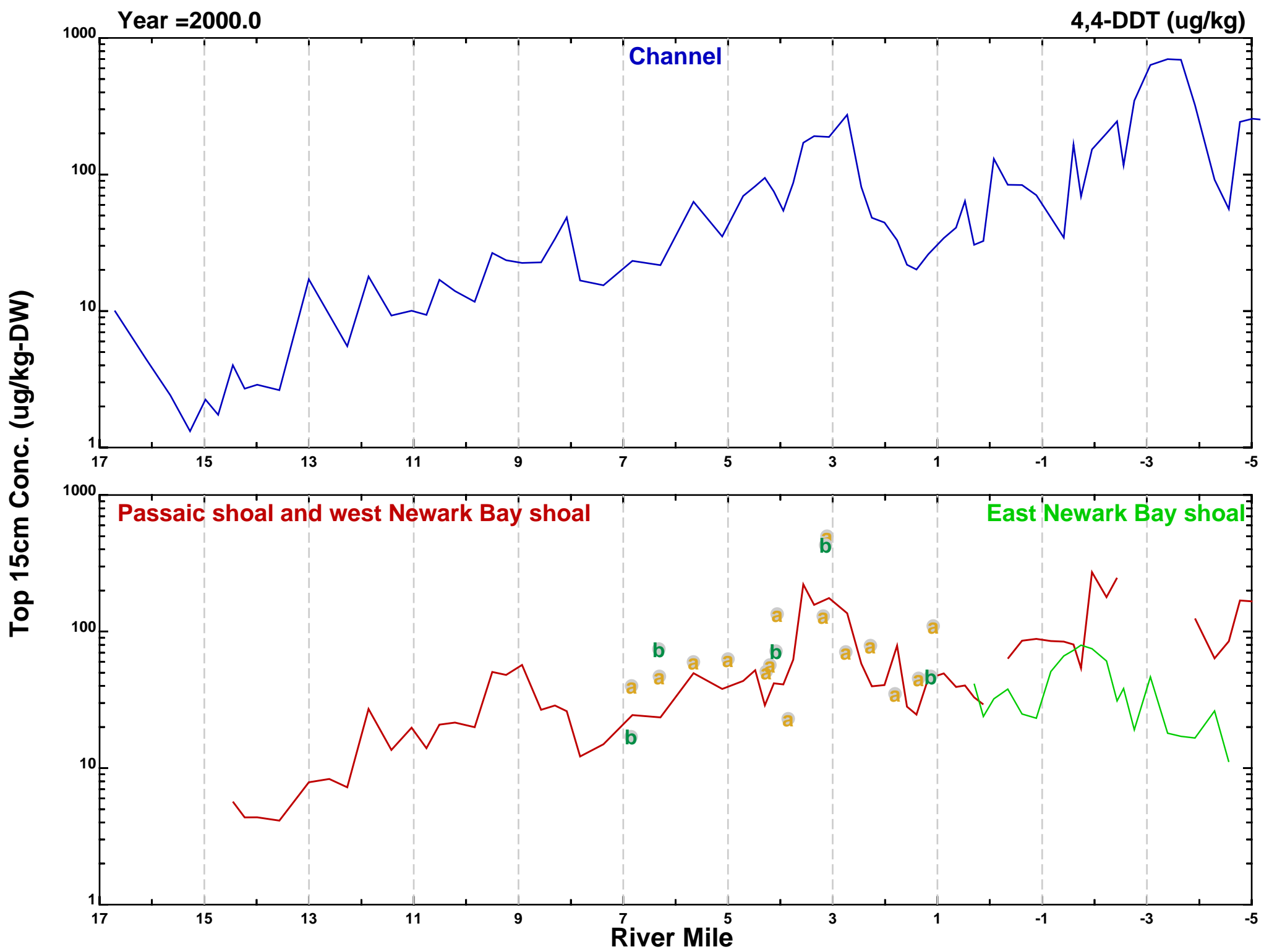


Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

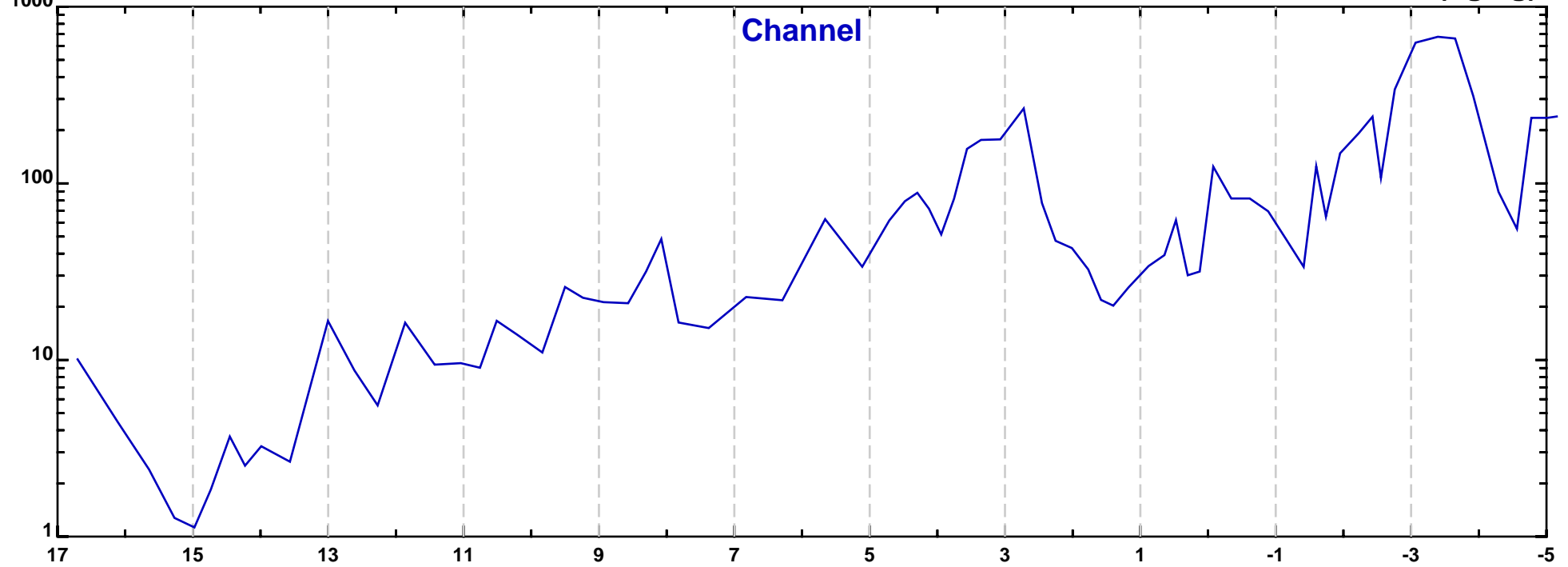




Year =2001.0

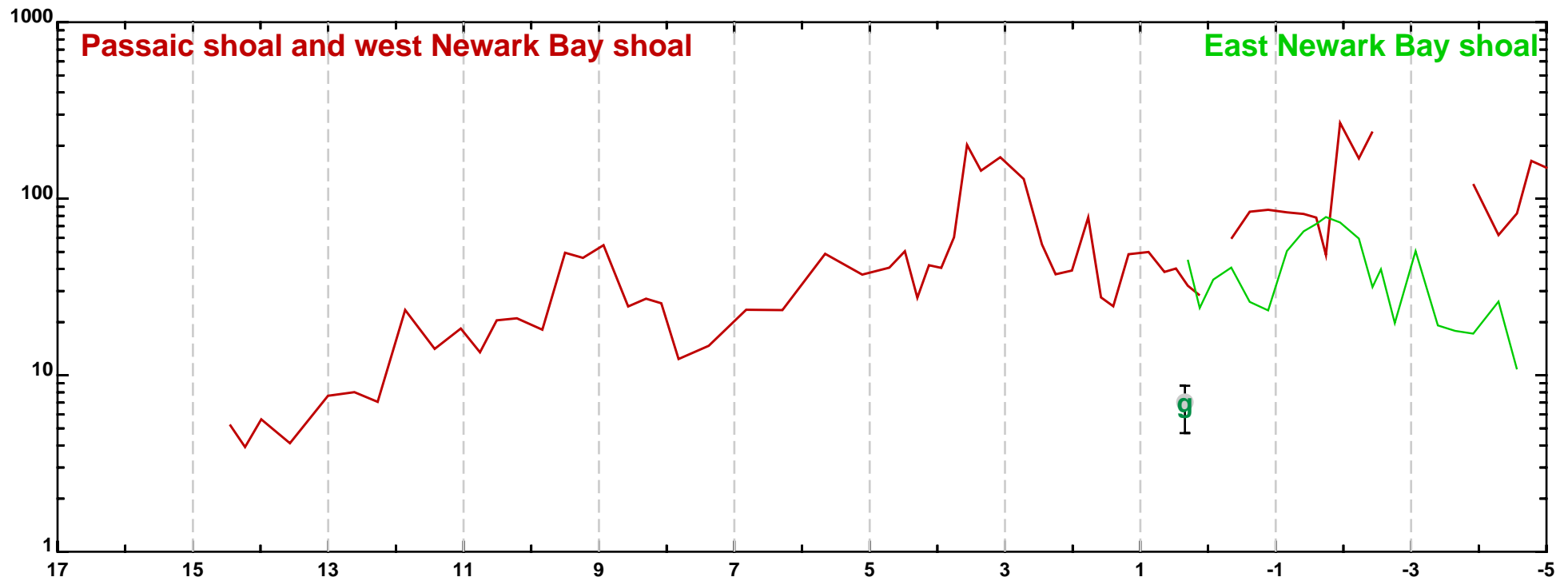
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

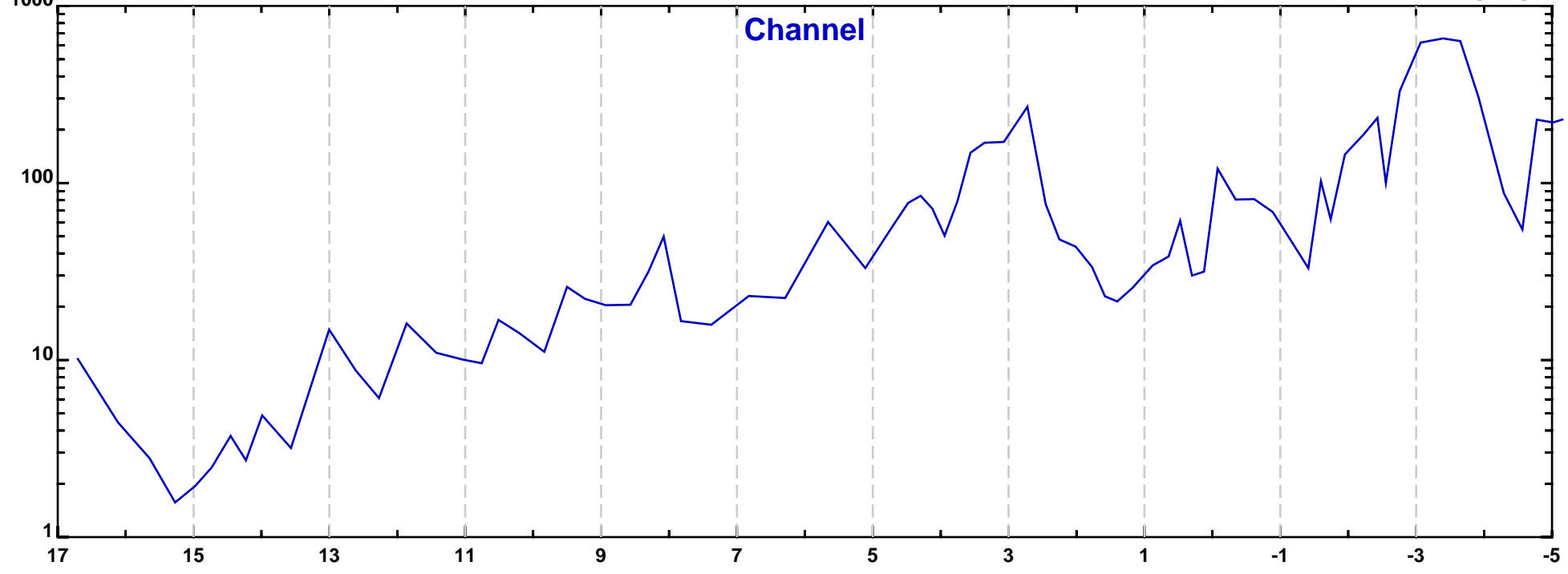


River Mile

Year =2002.0

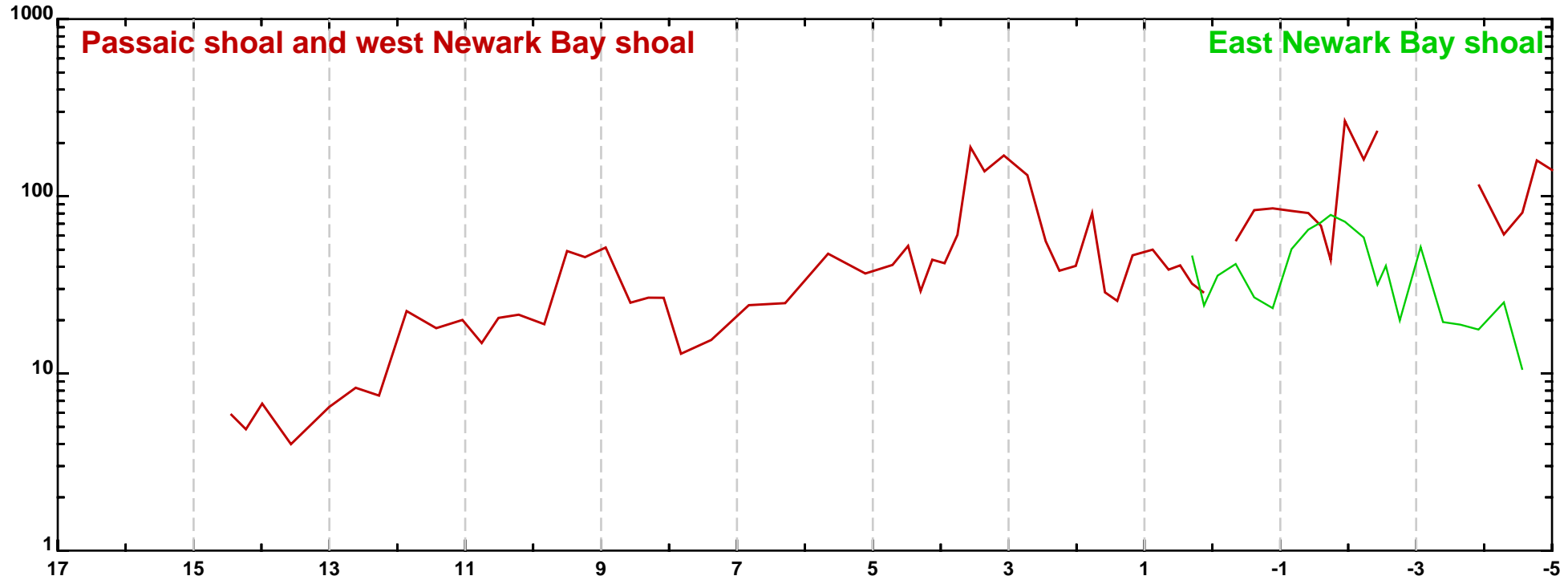
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

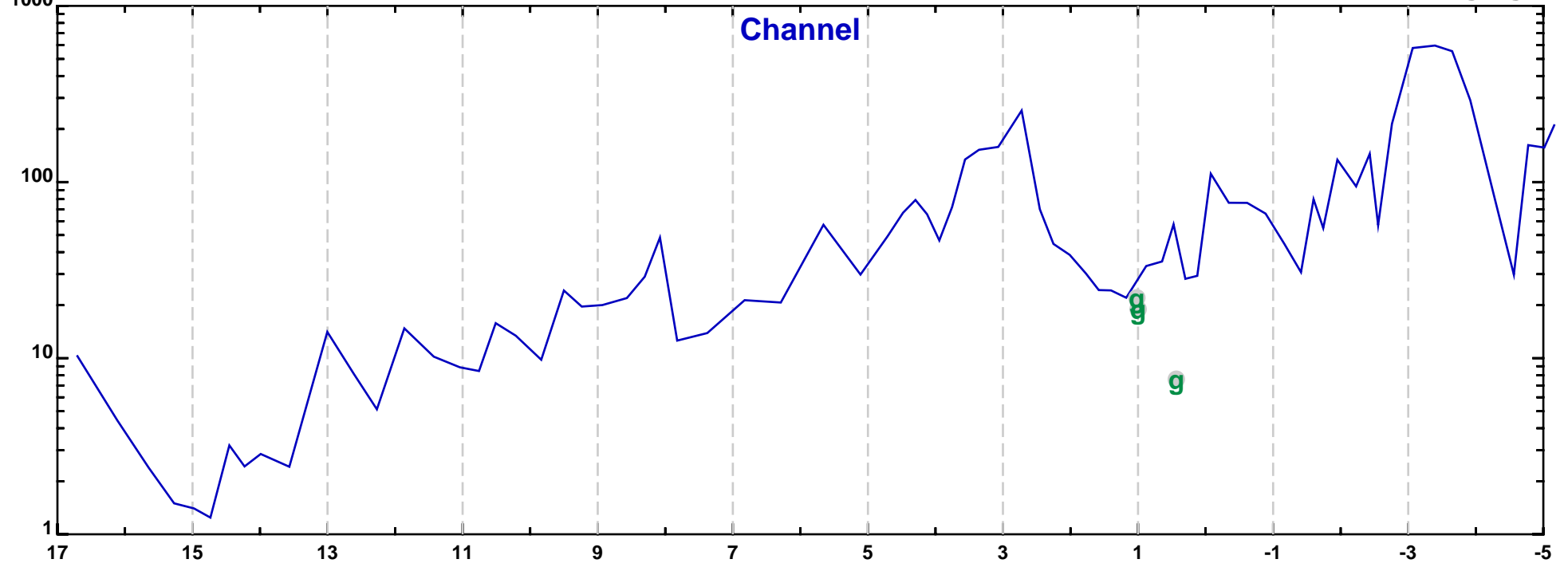


River Mile

Year = 2003.0

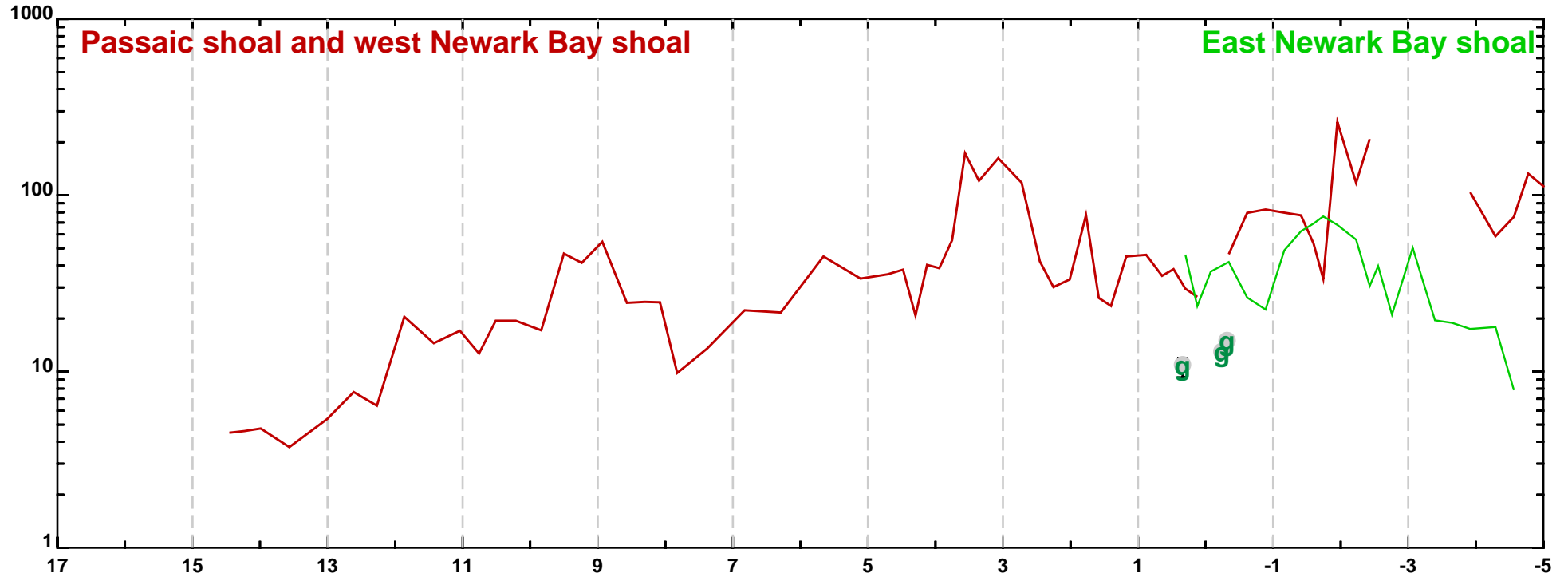
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

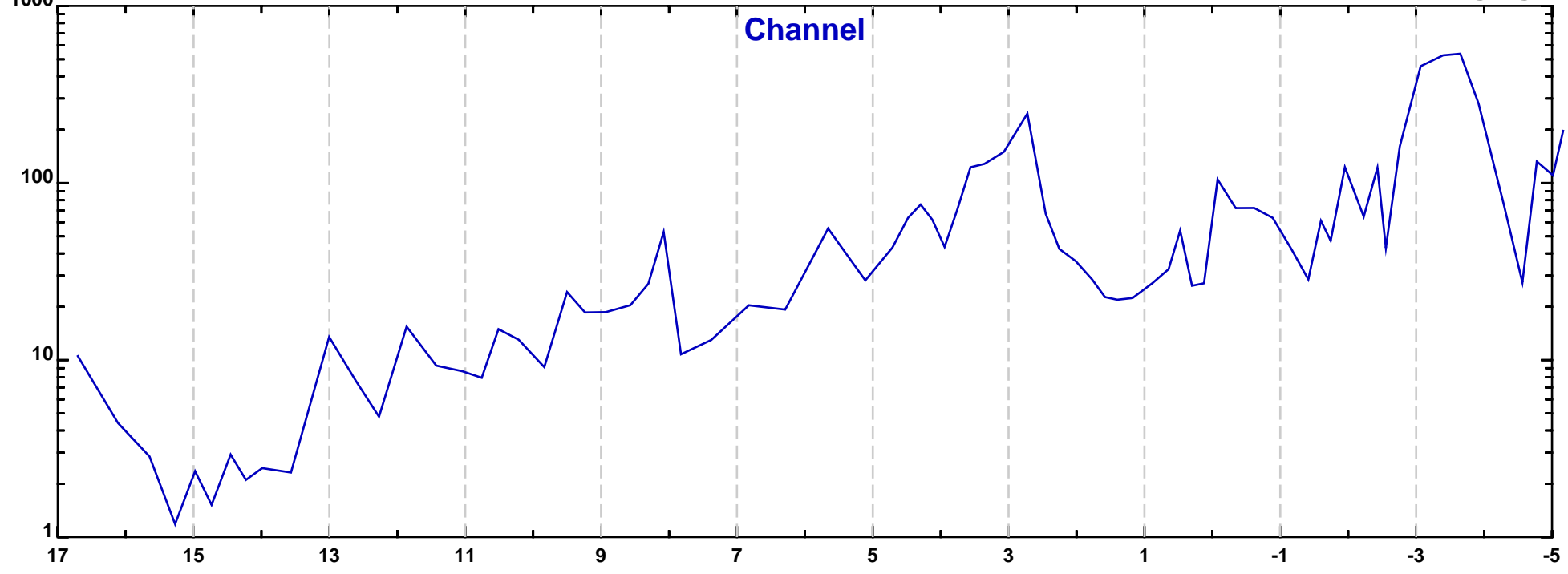


River Mile

Year =2004.0

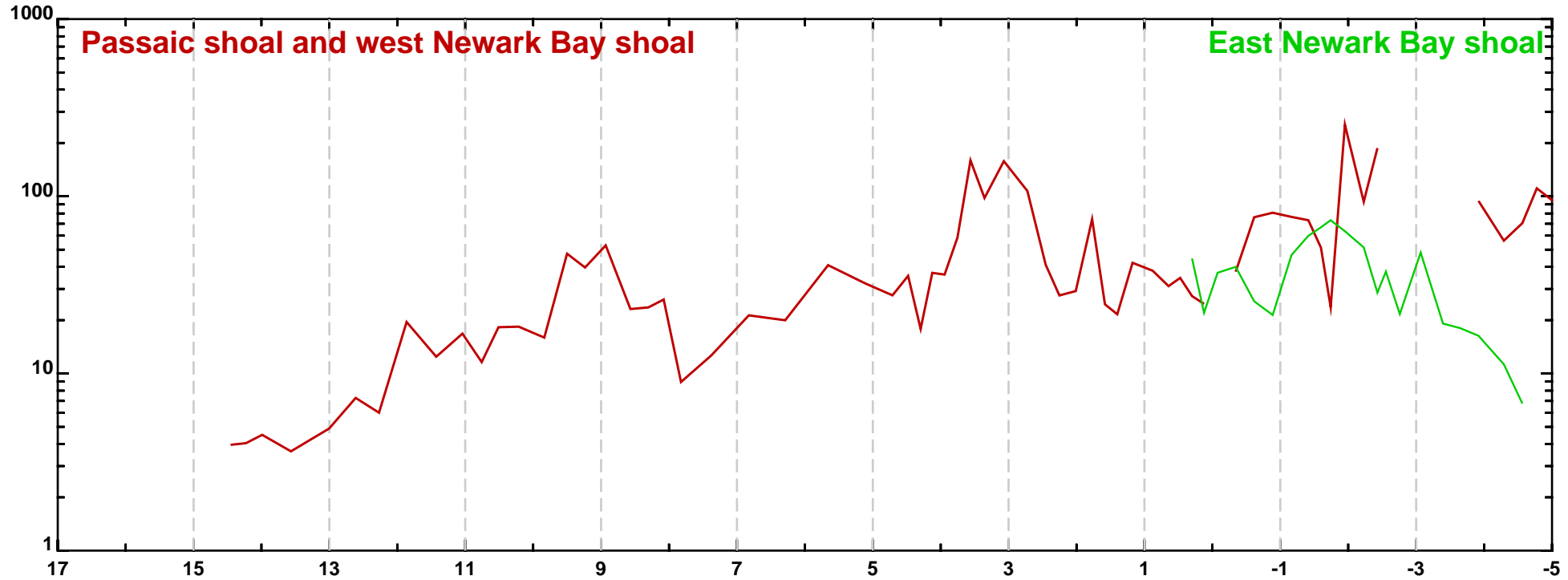
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

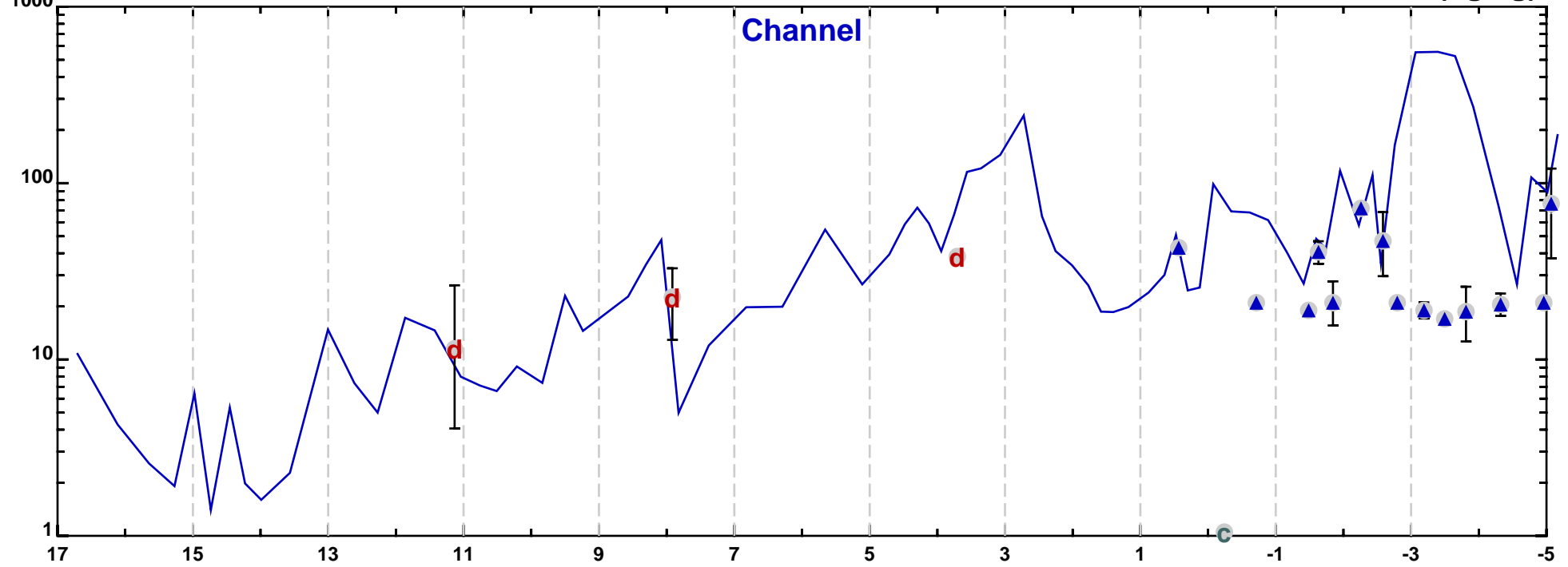


River Mile

Year =2005.0

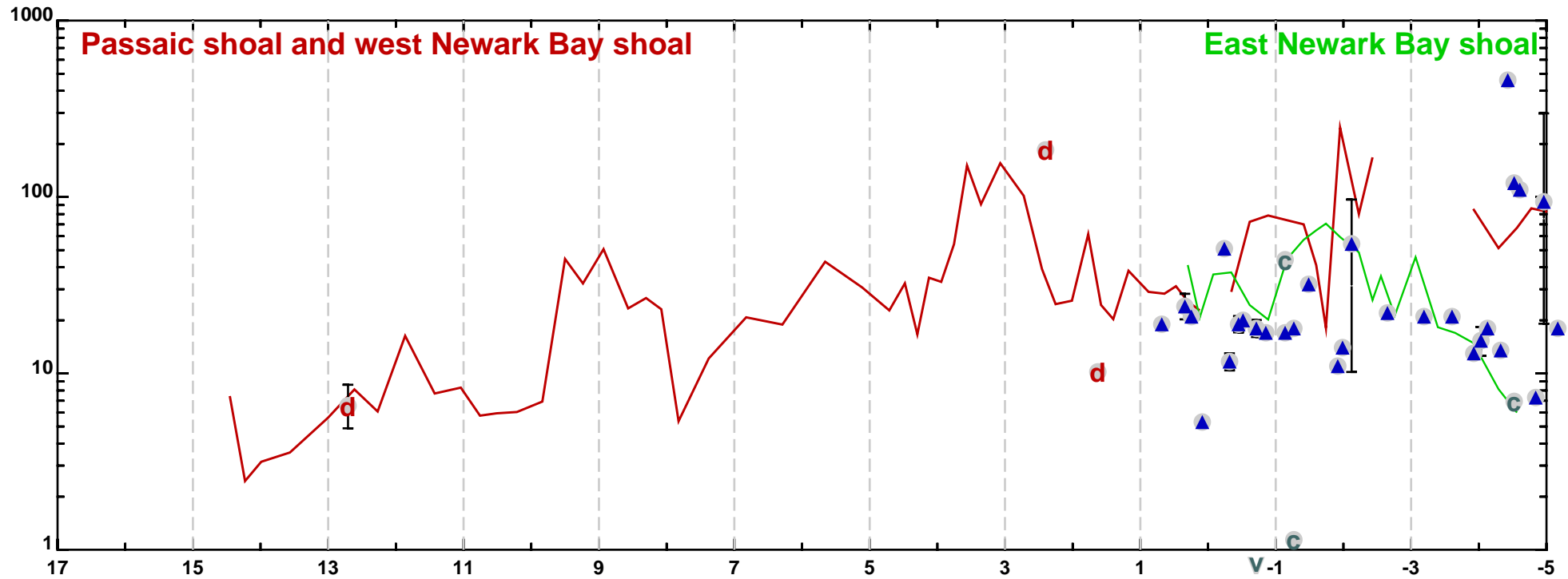
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

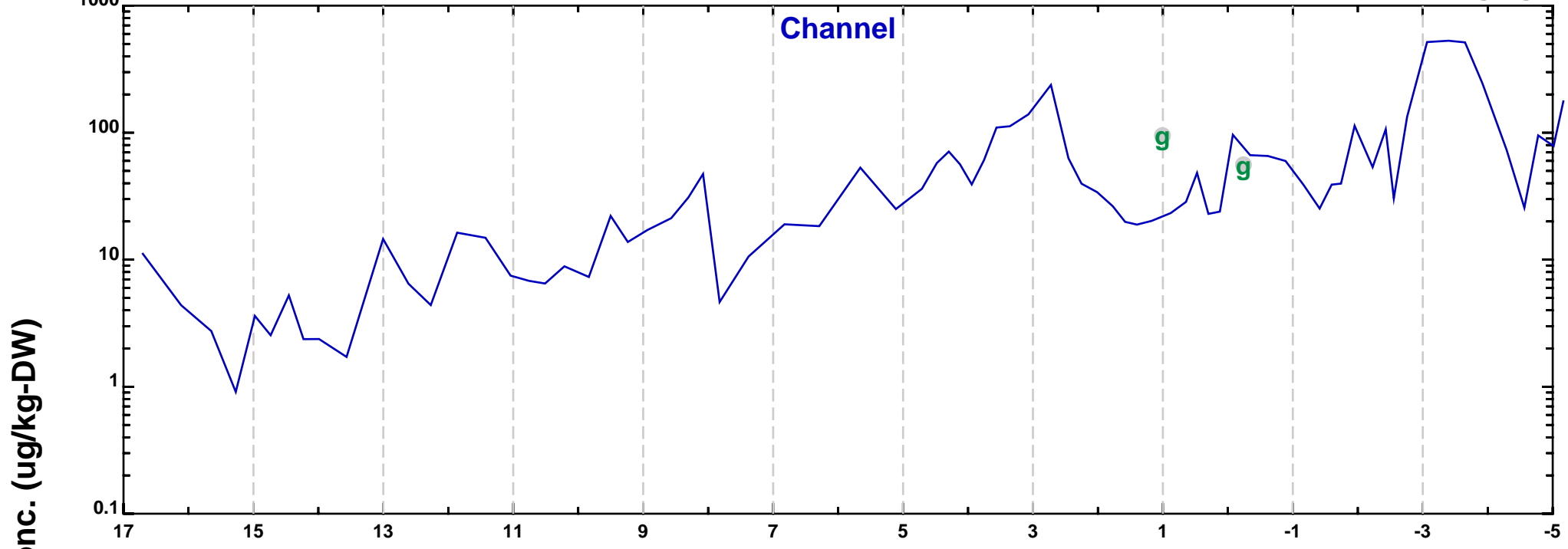
East Newark Bay shoal



River Mile

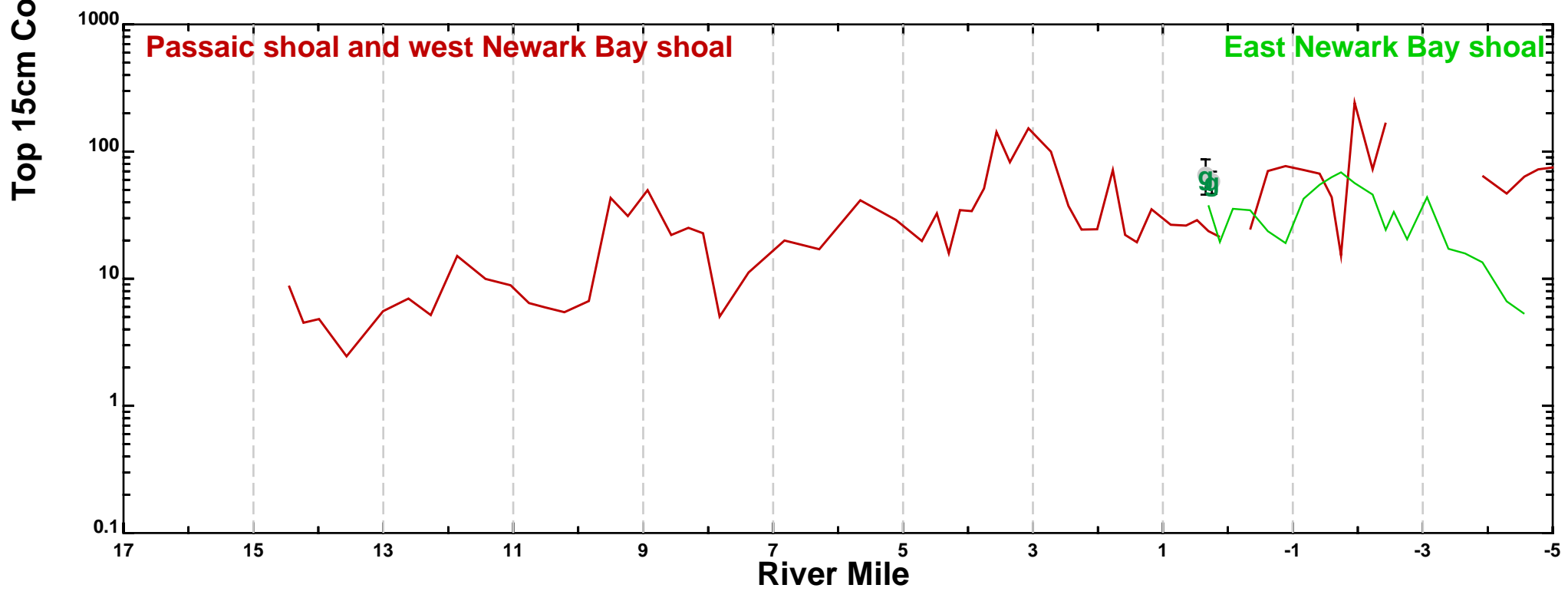
Year =2006.0

4,4-DDT (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

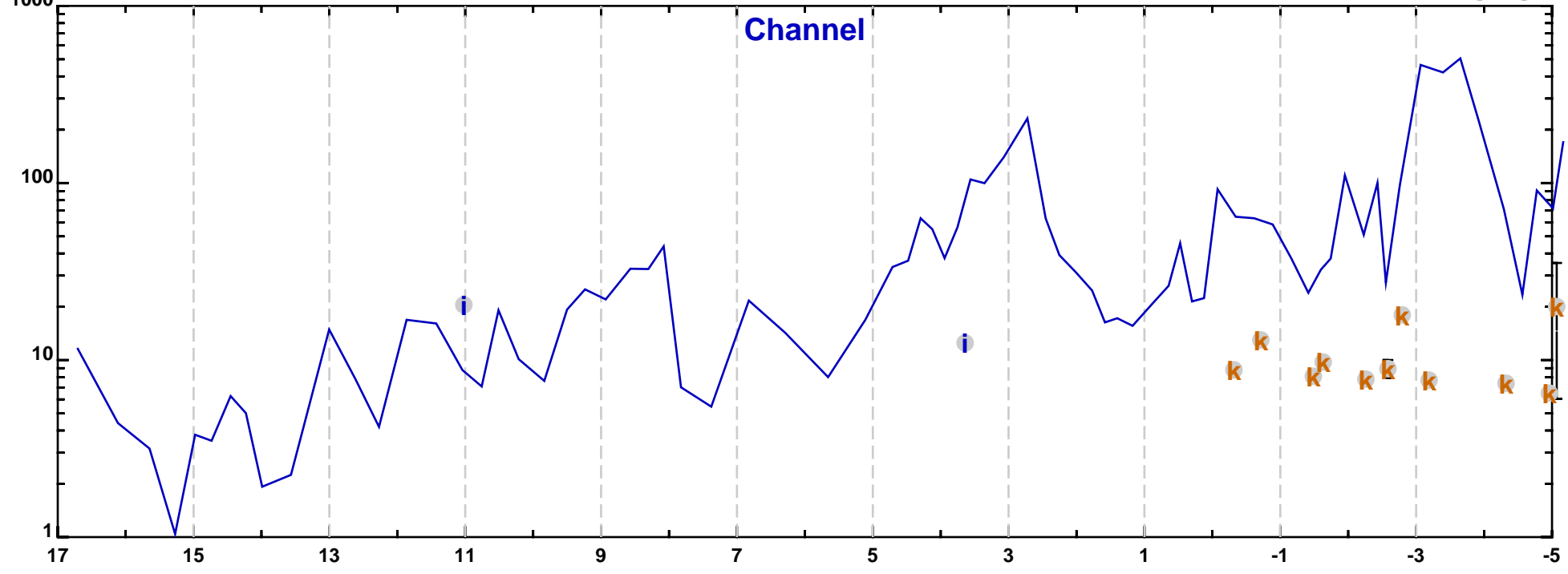


River Mile

Year =2007.0

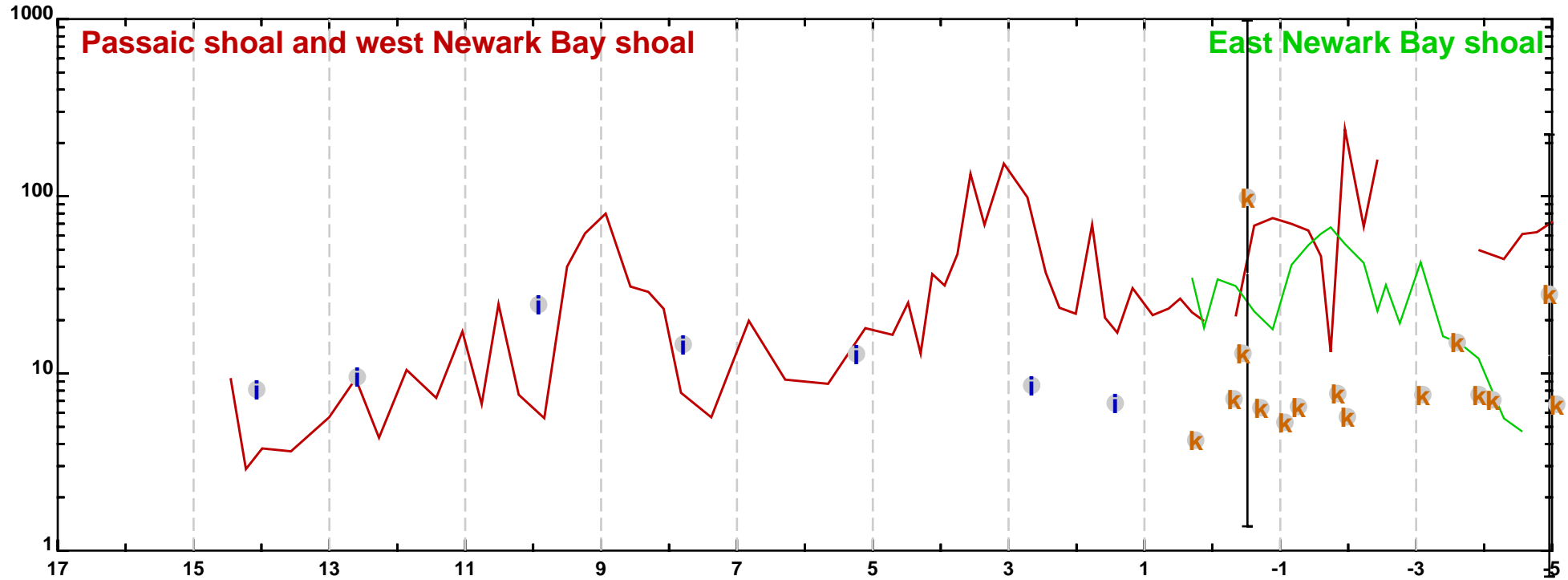
4,4-DDT (ug/kg)

Top 15cm Conc. (ug/kg-DW)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



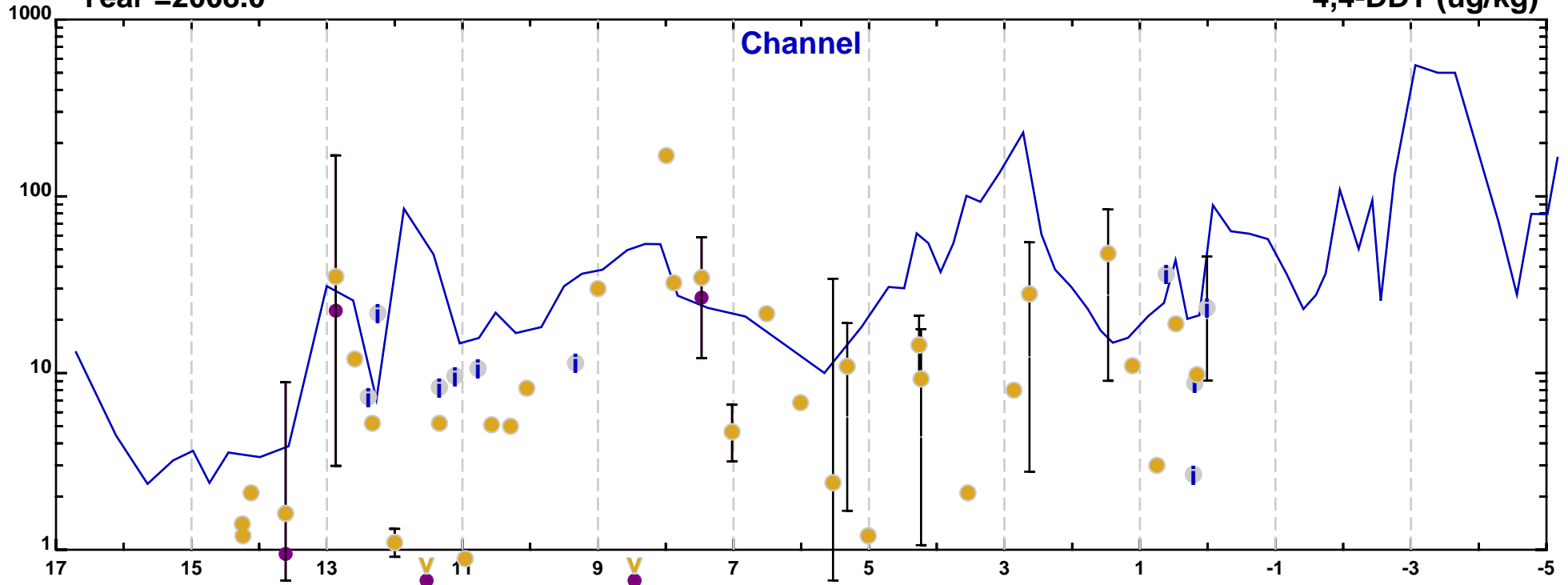
River Mile

Year =2008.0

4,4-DDT (ug/kg)

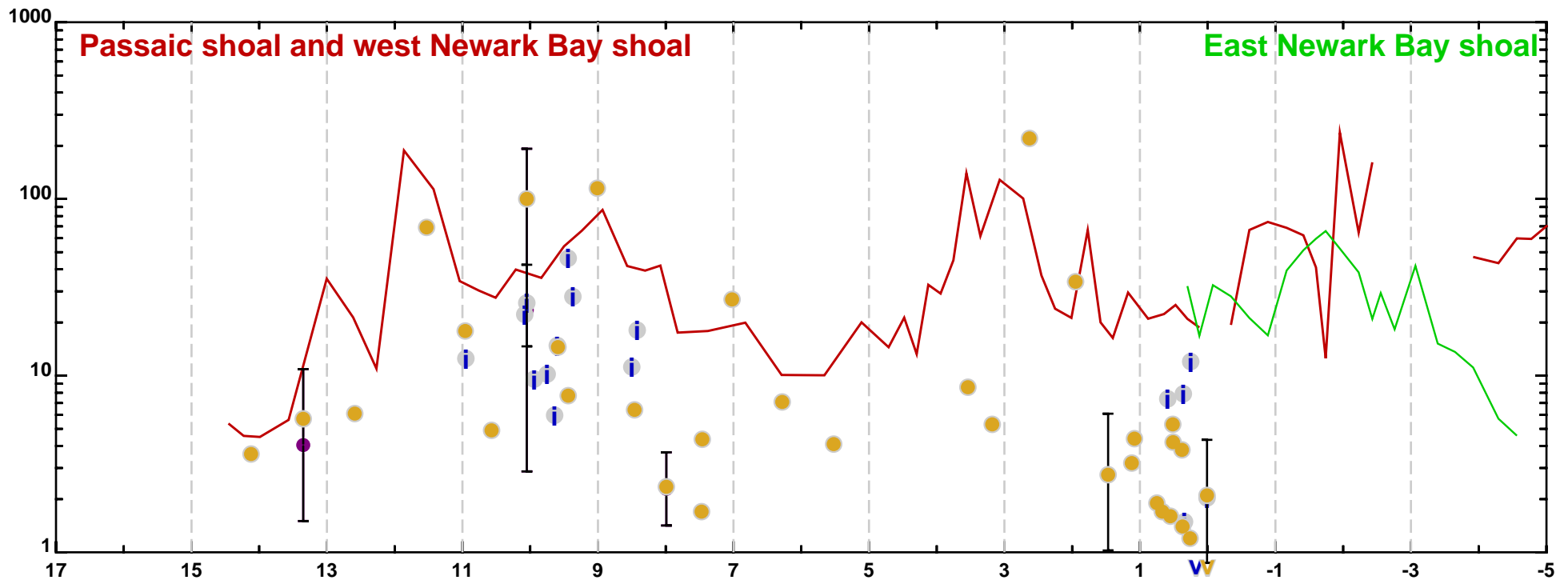
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



River Mile

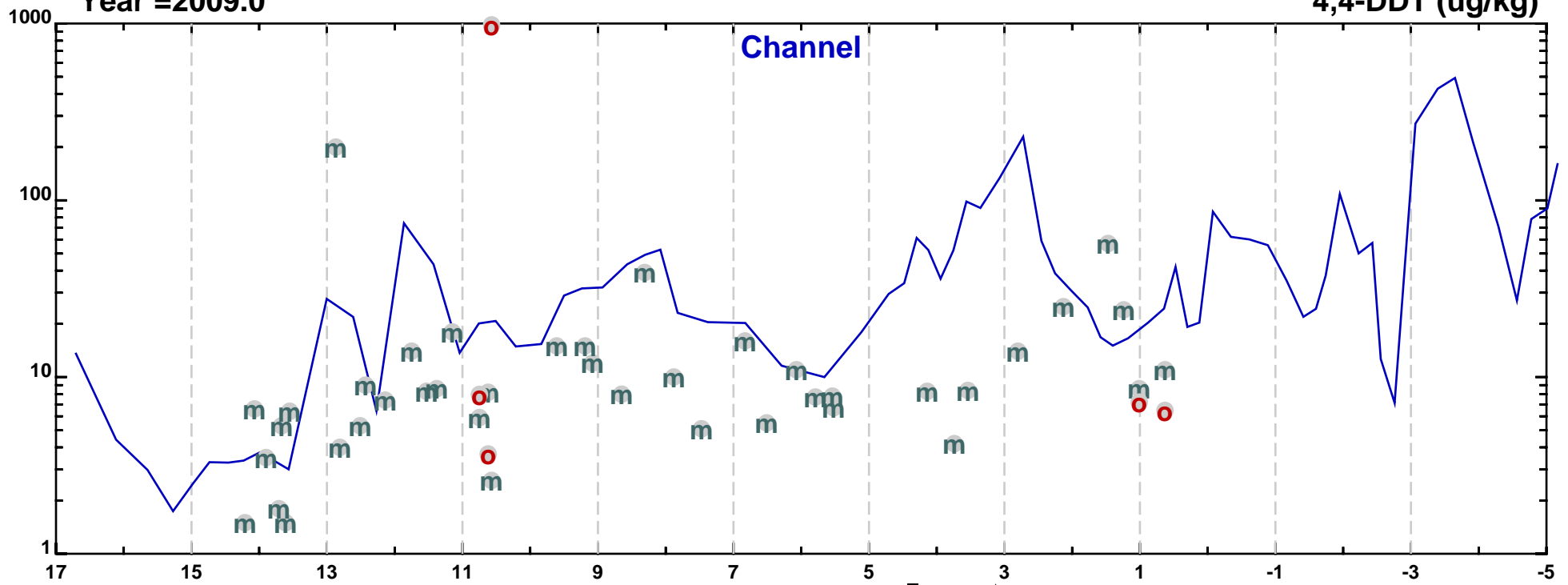


Year =2009.0

4,4-DDT (ug/kg)

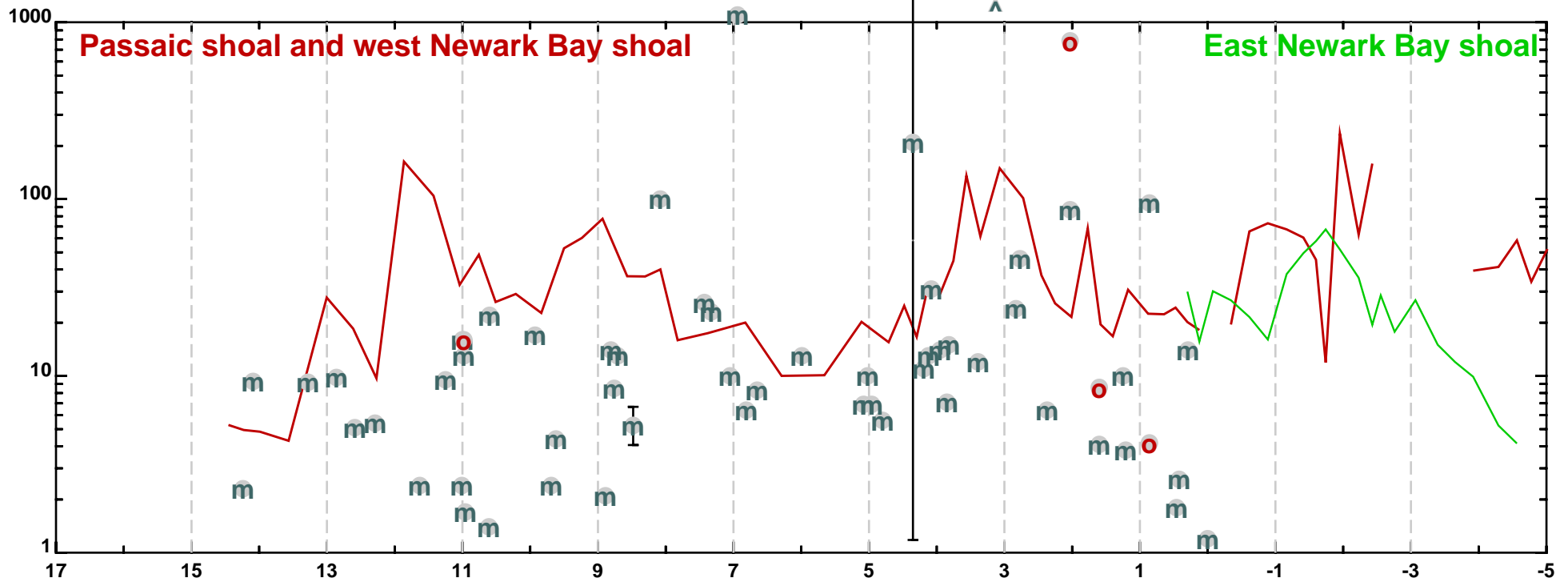
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



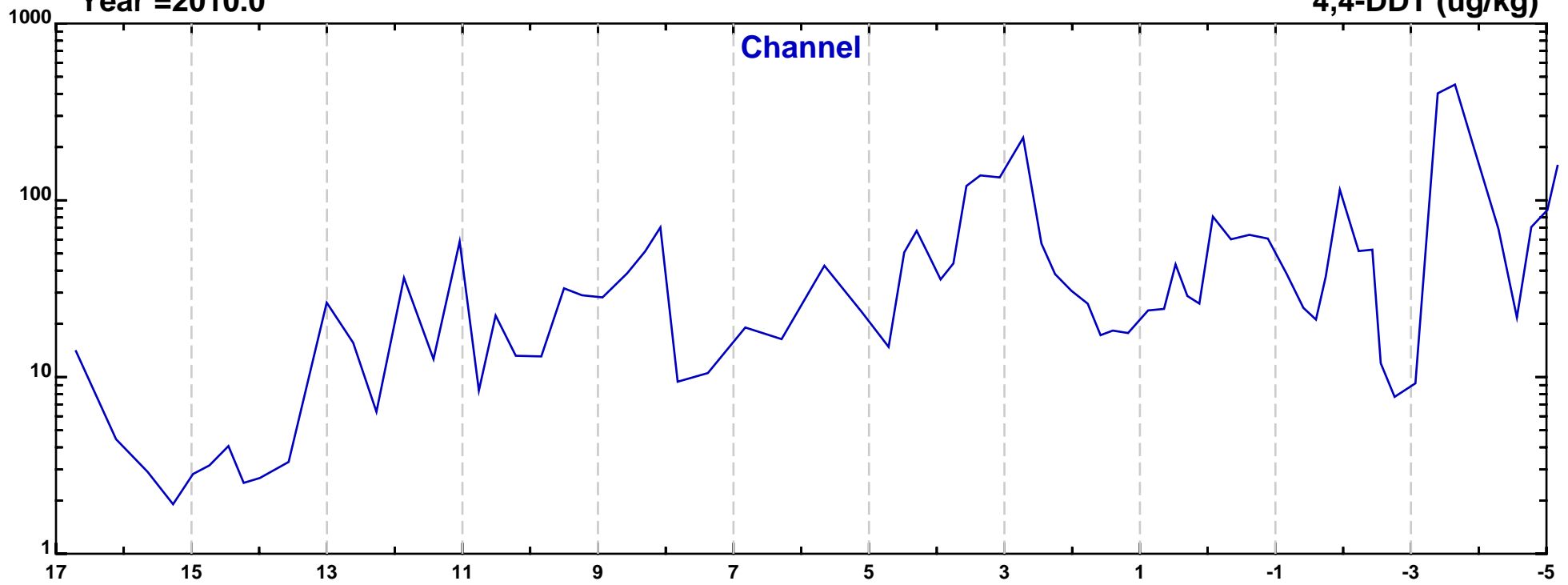
River Mile

Year =2010.0

4,4-DDT (ug/kg)

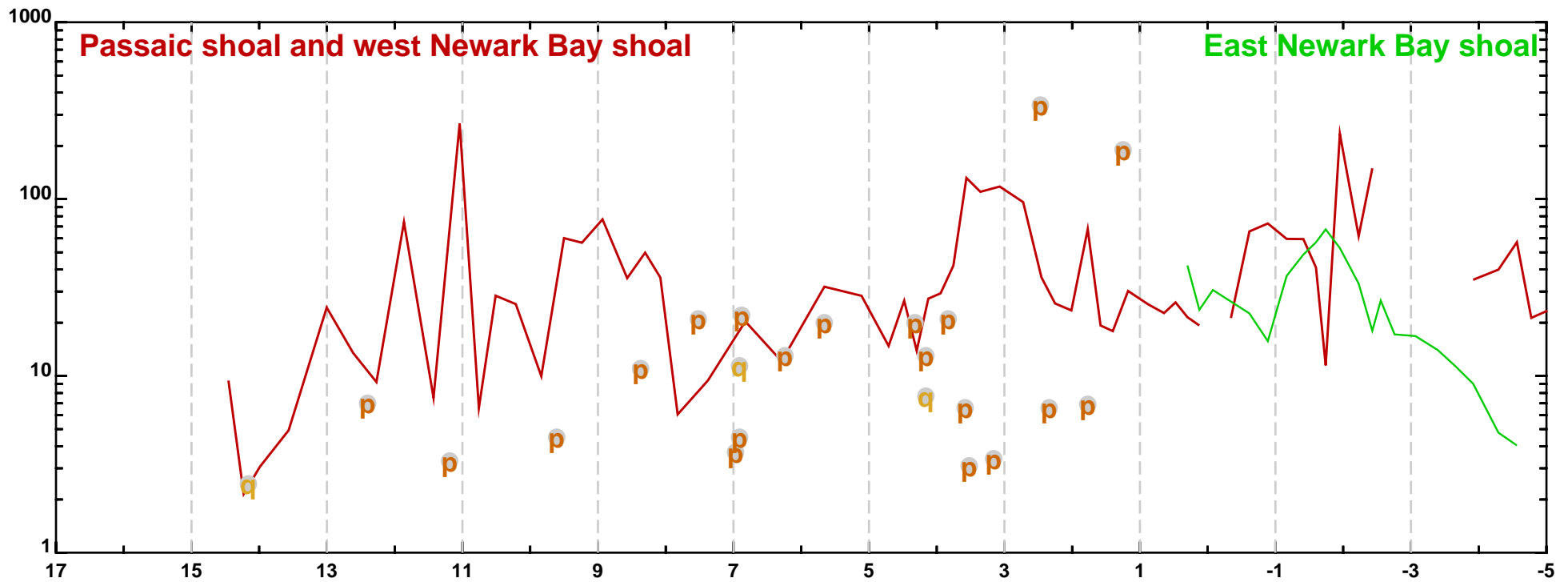
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



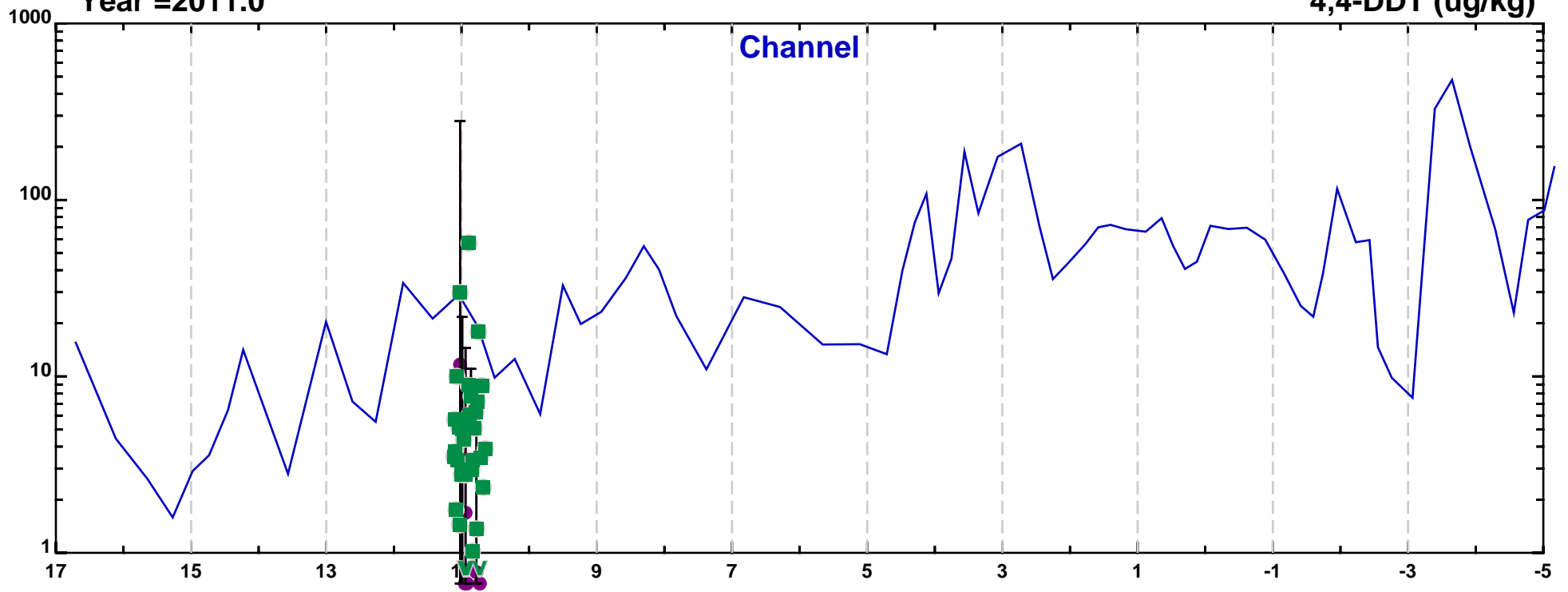
River Mile

Year =2011.0

4,4-DDT (ug/kg)

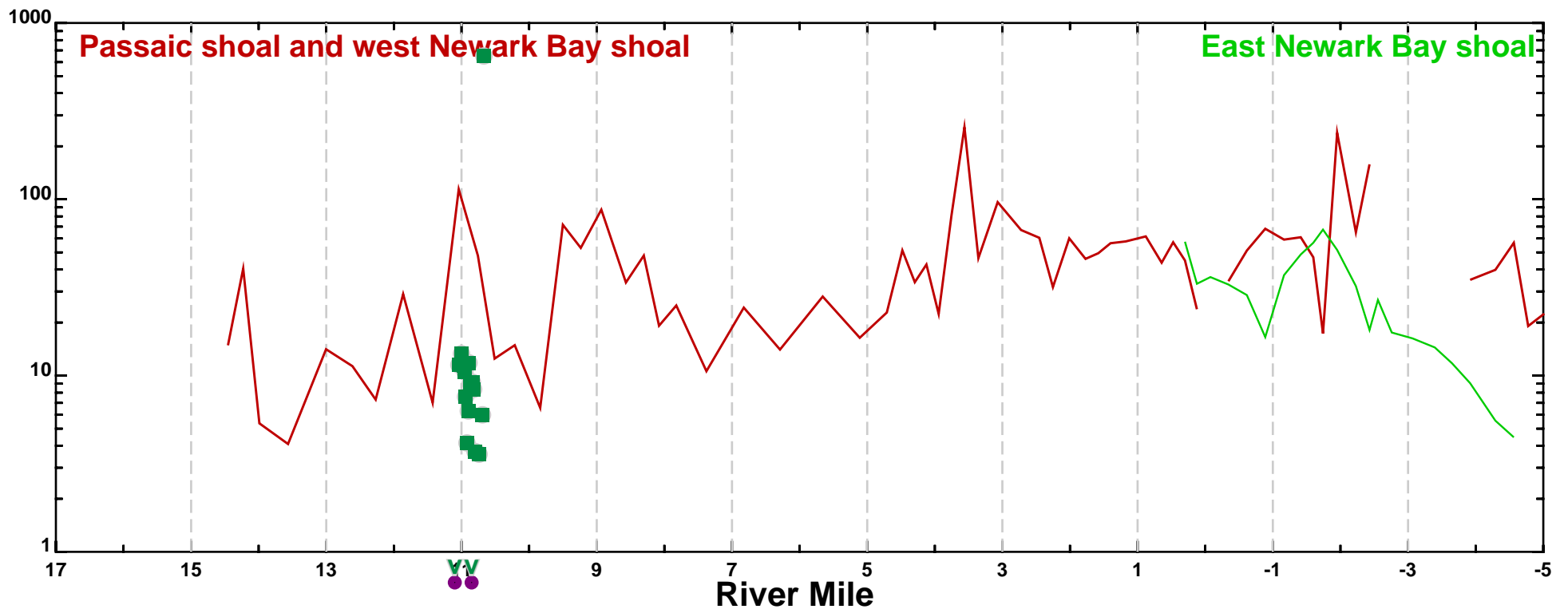
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



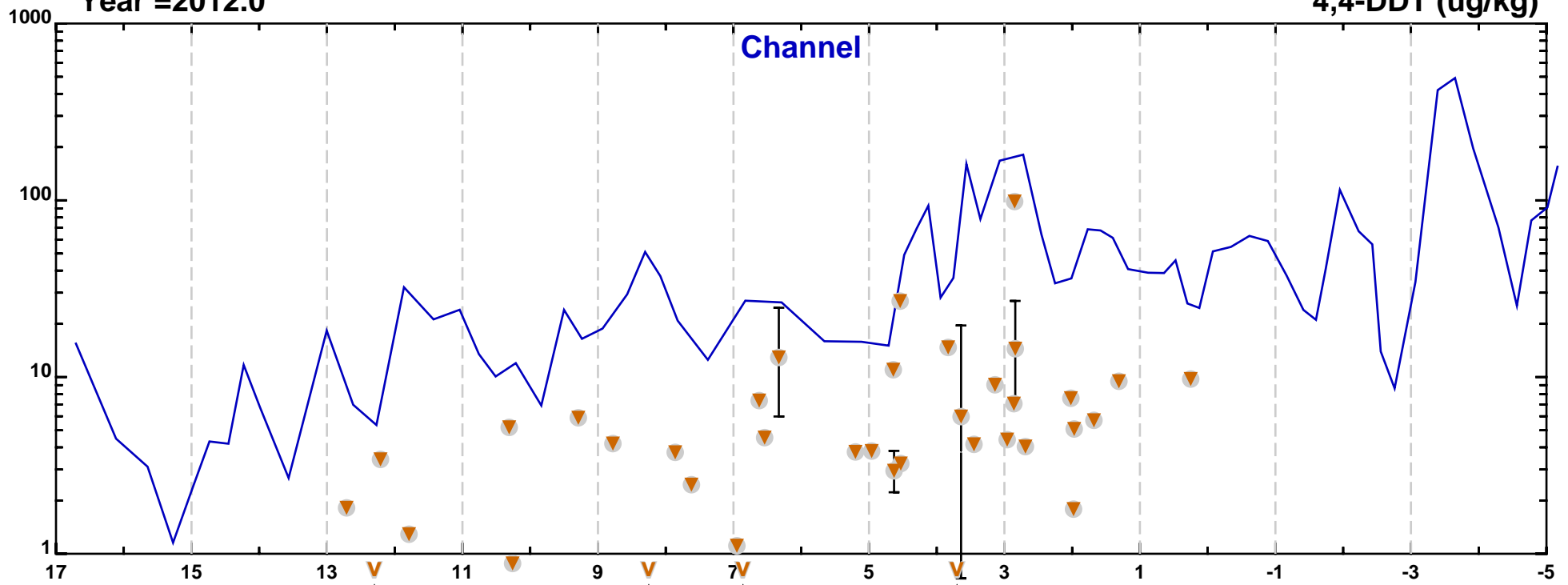
River Mile

Year =2012.0

4,4-DDT (ug/kg)

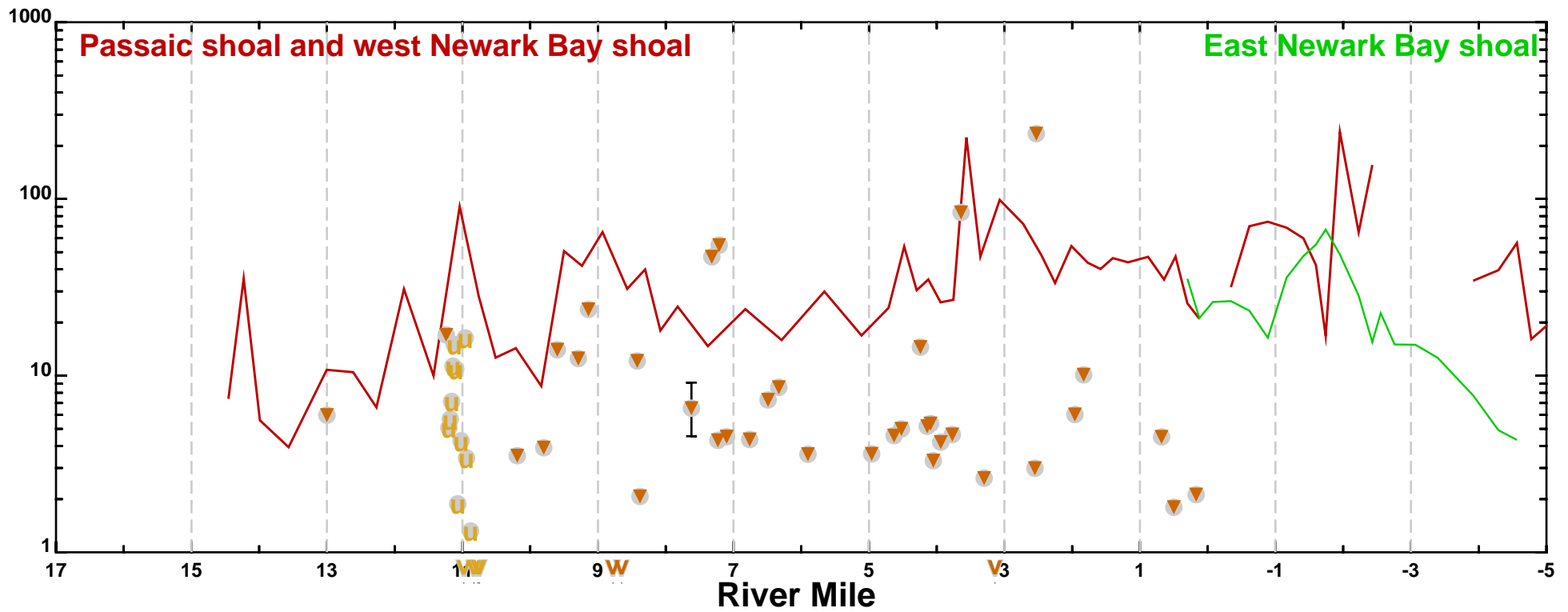
Top 15cm Conc. (ug/kg-DW)

Channel



Passaic shoal and west Newark Bay shoal

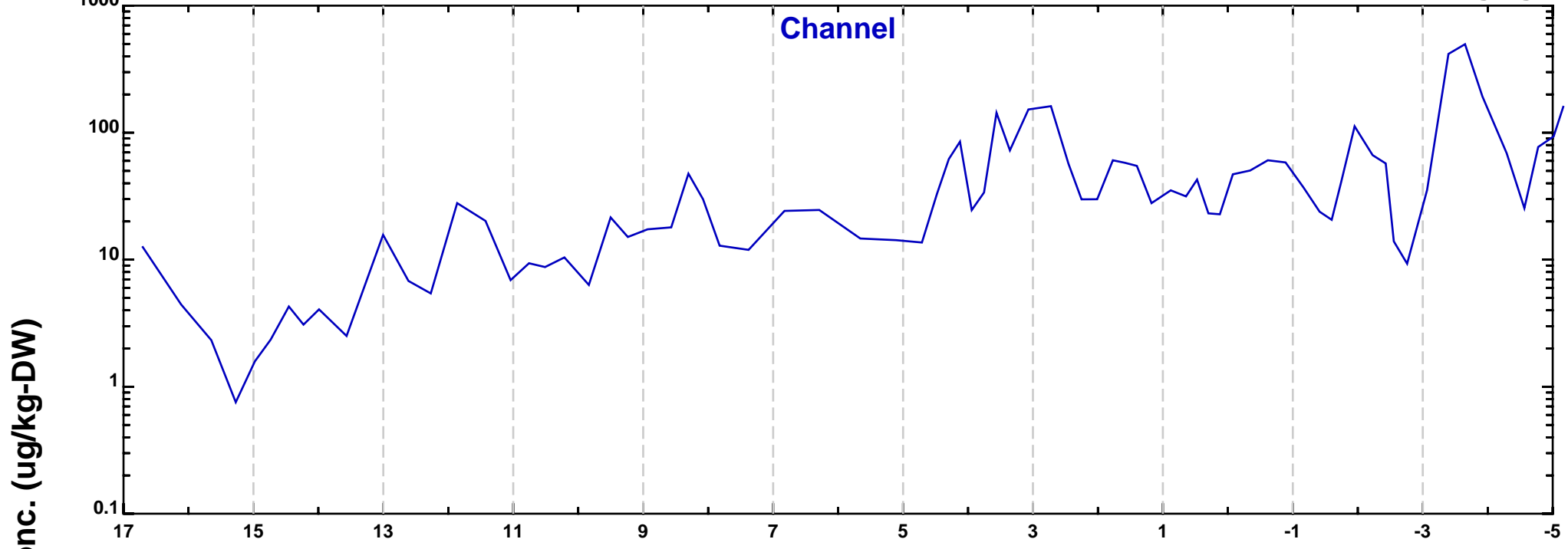
East Newark Bay shoal



River Mile

Year =2013.0

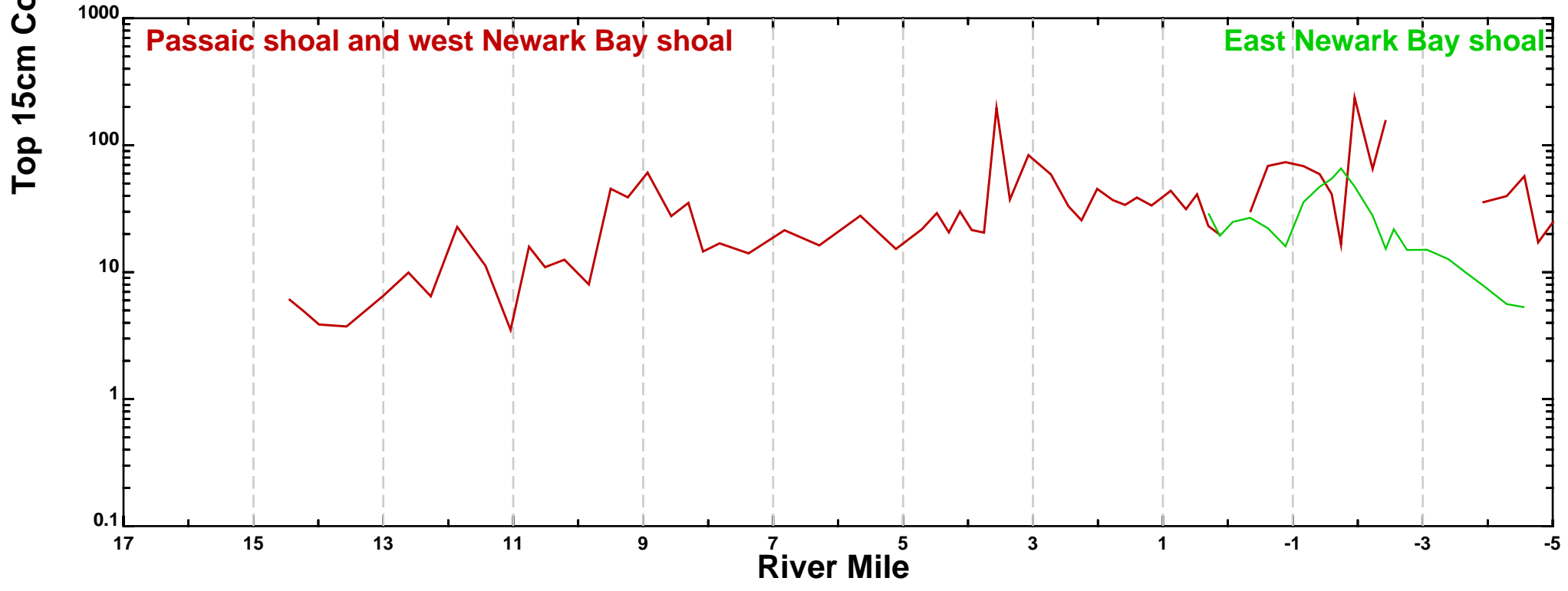
4,4-DDT (ug/kg)



Channel

Passaic shoal and west Newark Bay shoal

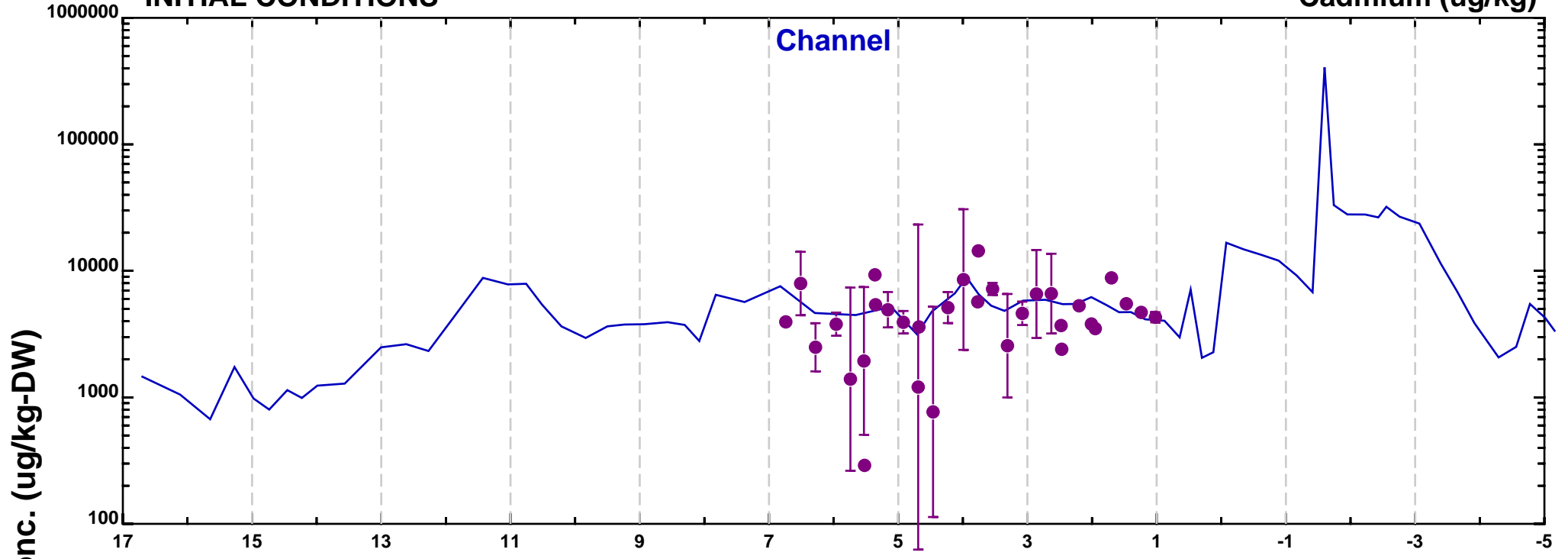
East Newark Bay shoal



River Mile

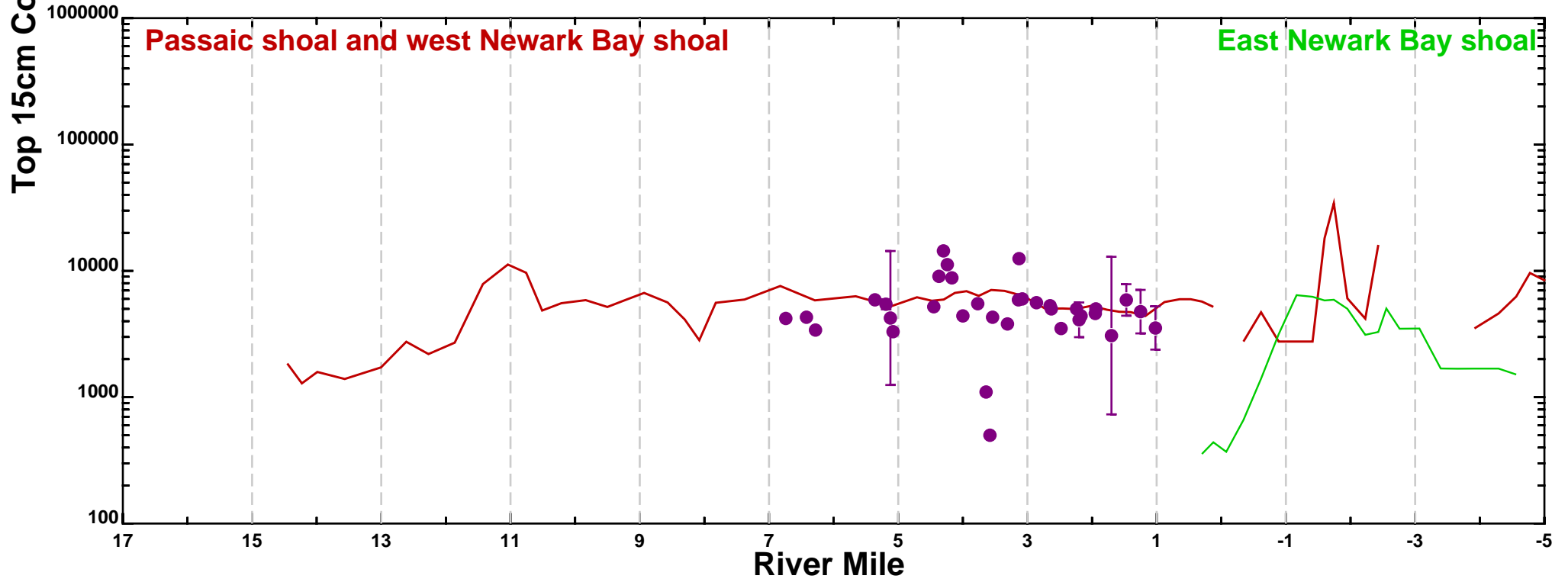
**INITIAL CONDITIONS**

**Cadmium (ug/kg)**



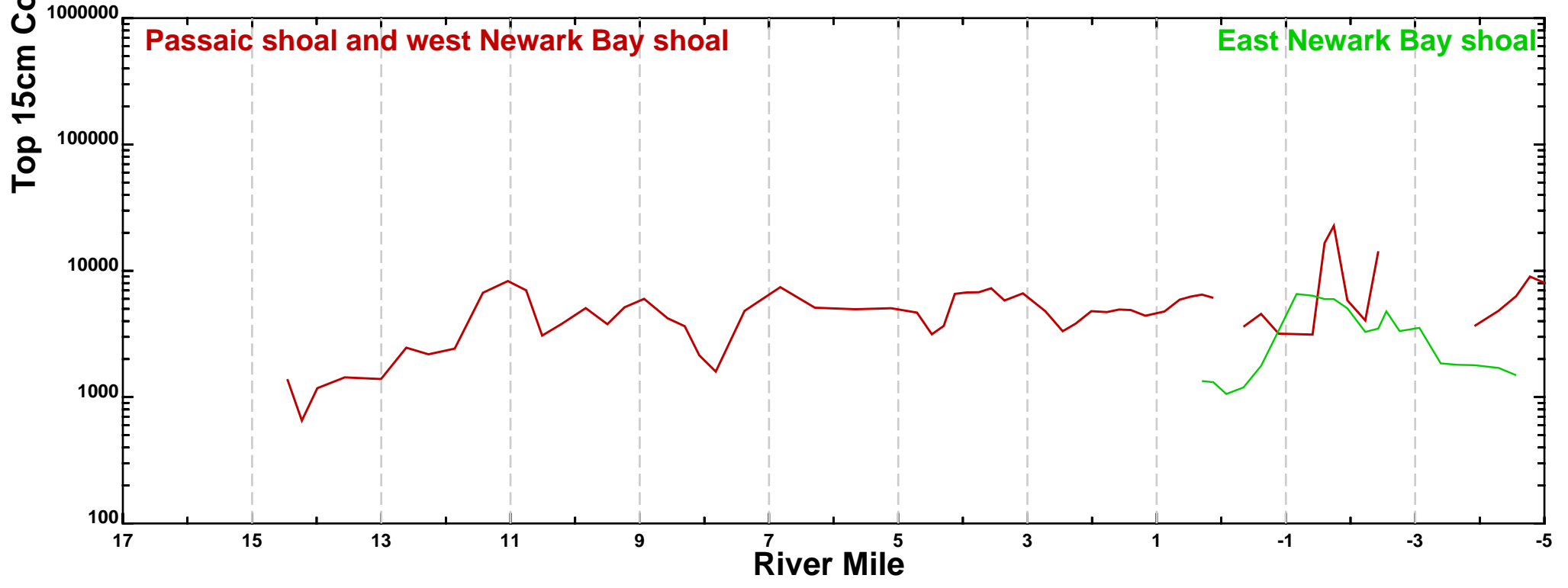
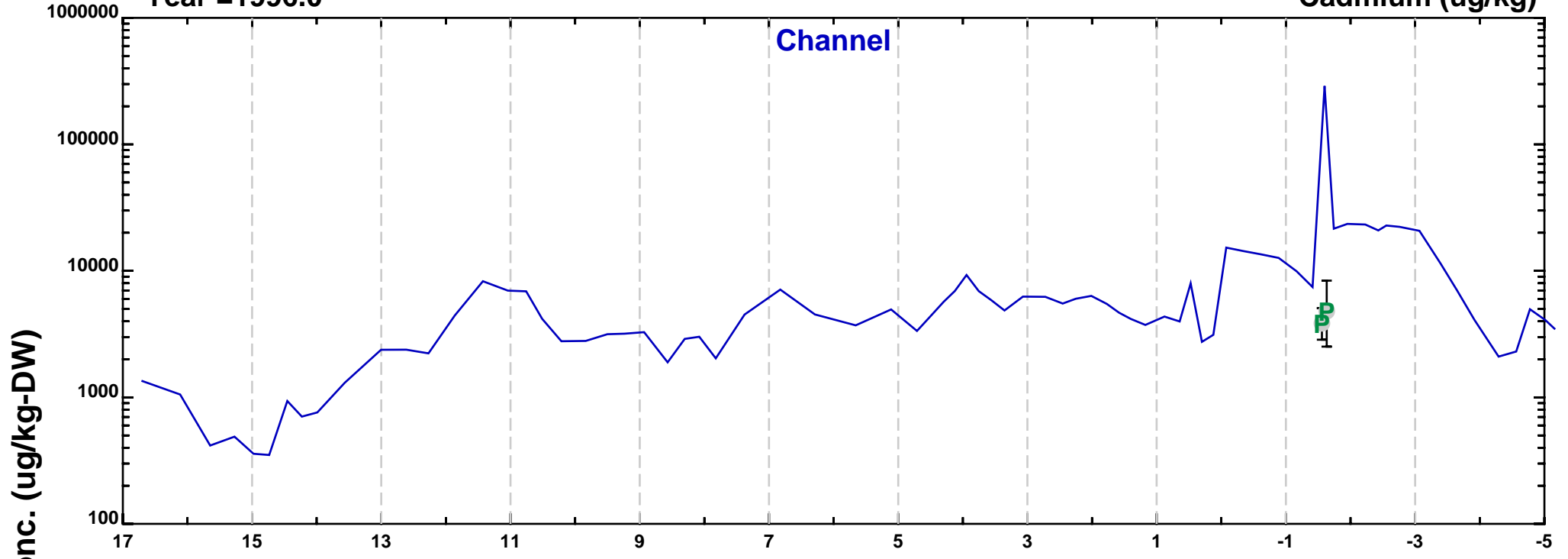
**Passaic shoal and west Newark Bay shoal**

**East Newark Bay shoal**



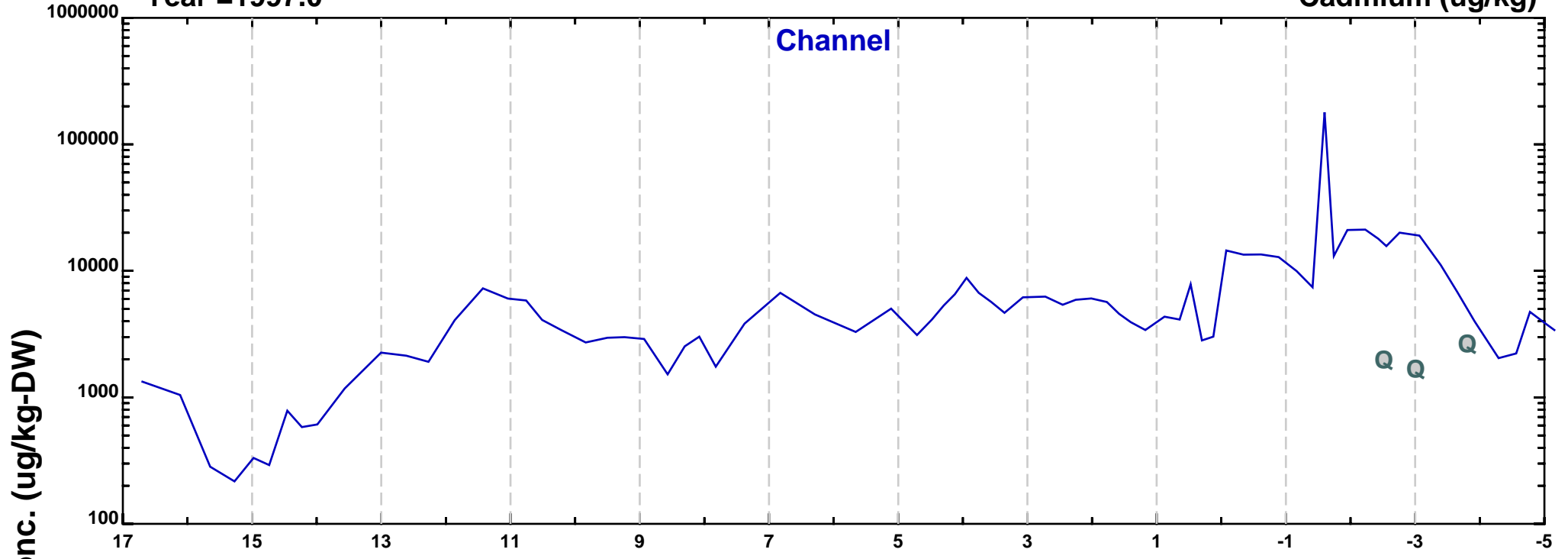
Year = 1996.0

Cadmium (ug/kg)



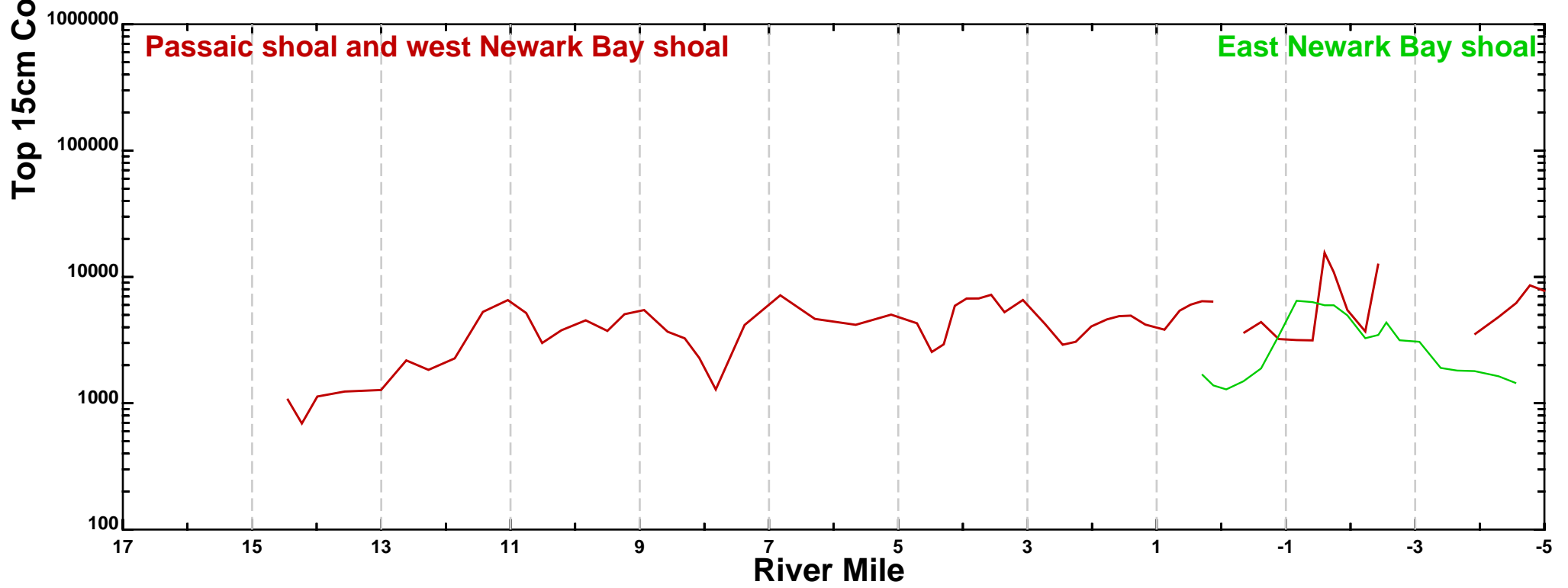
Year = 1997.0

Cadmium (ug/kg)



Passaic shoal and west Newark Bay shoal

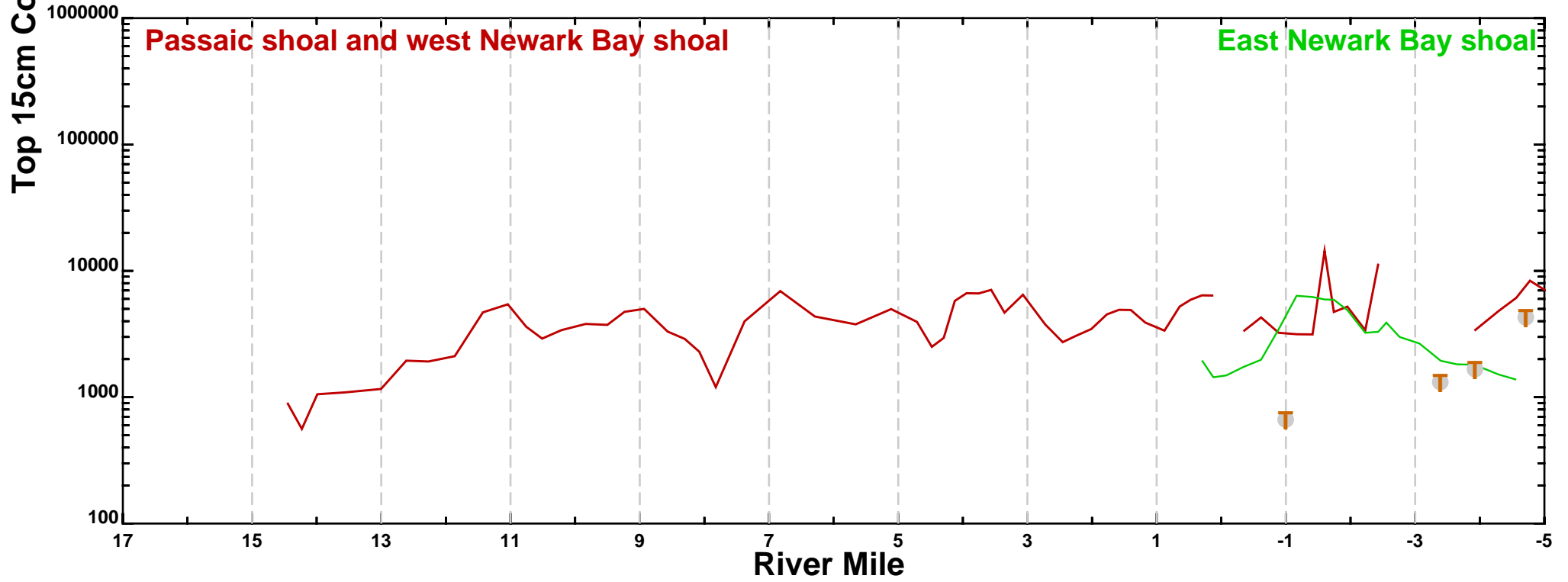
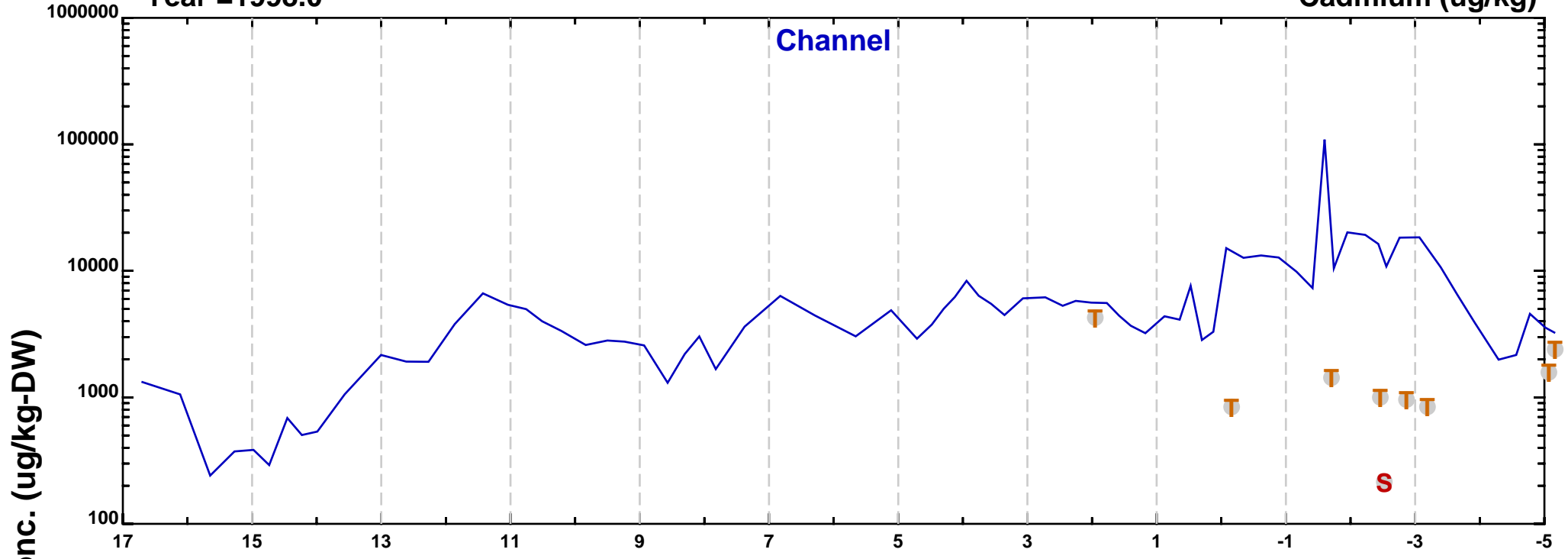
East Newark Bay shoal





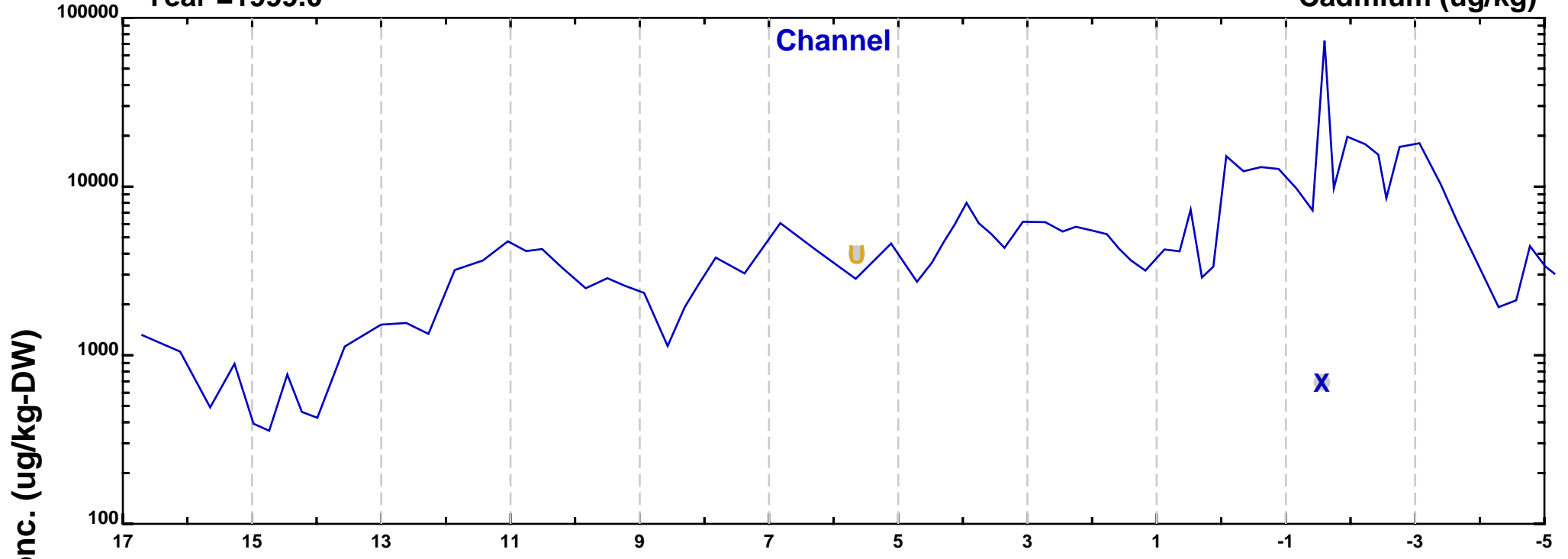
Year = 1998.0

Cadmium (ug/kg)



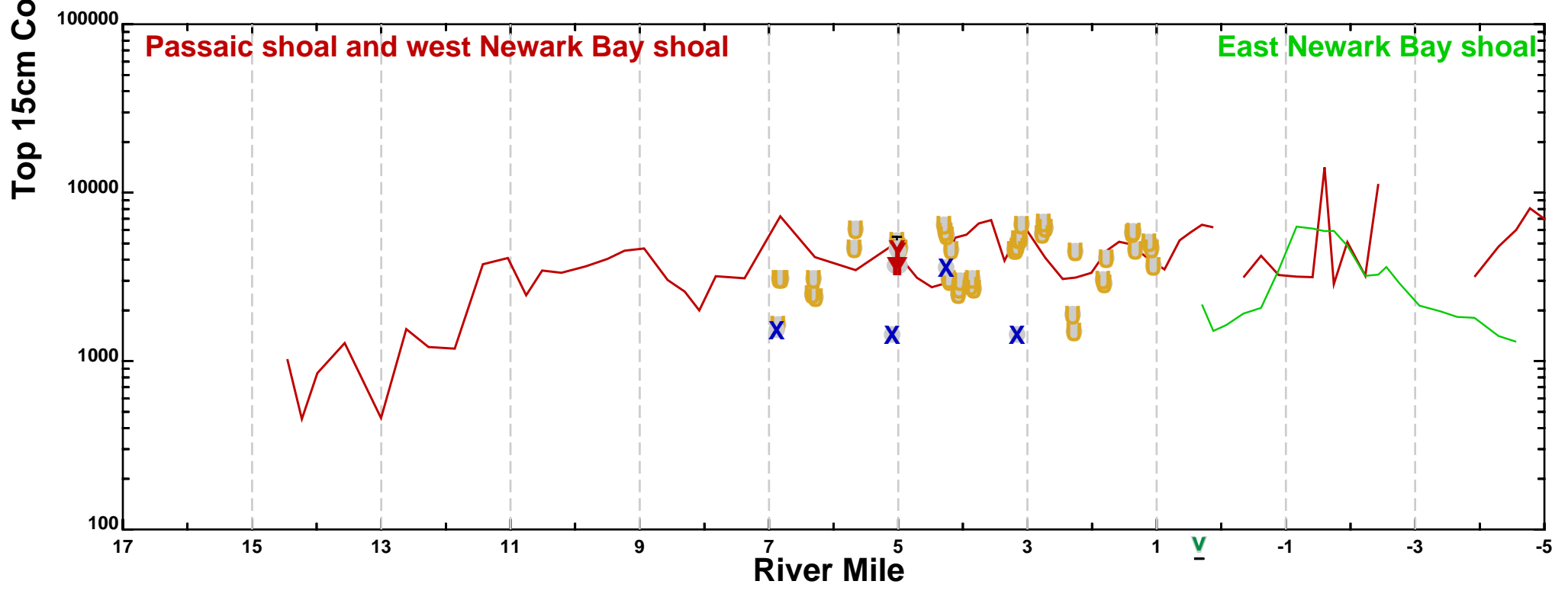
Year = 1999.0

Cadmium (ug/kg)



Passaic shoal and west Newark Bay shoal

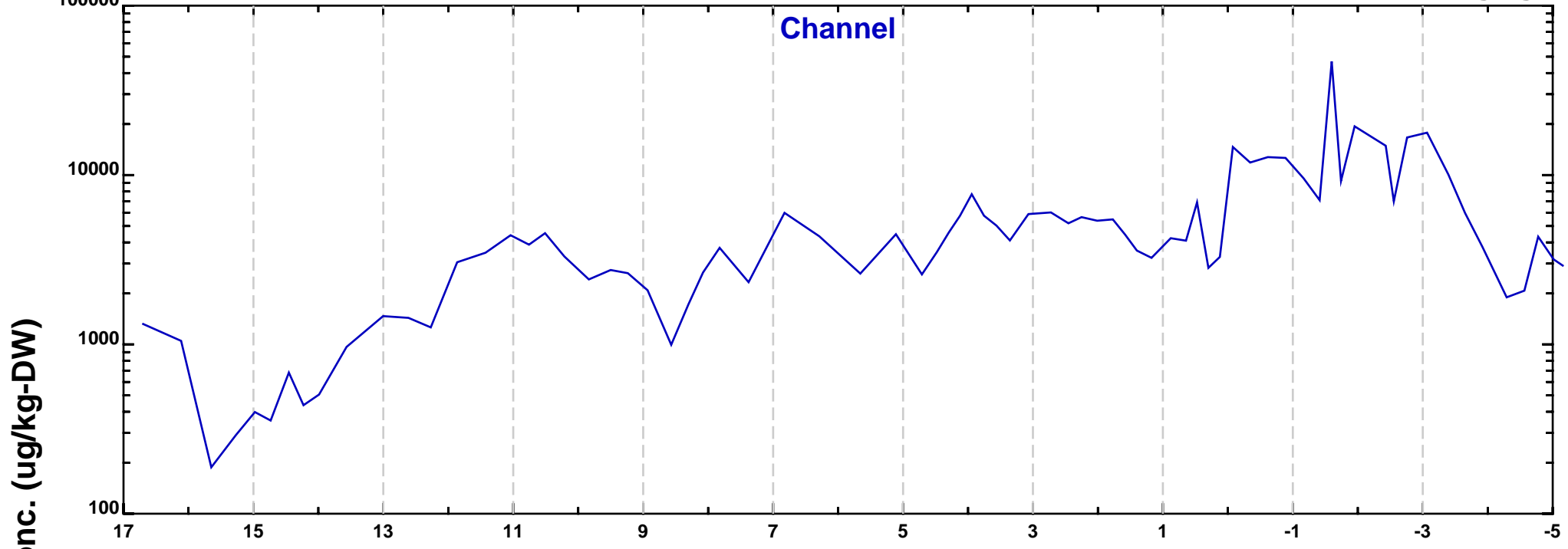
East Newark Bay shoal



River Mile

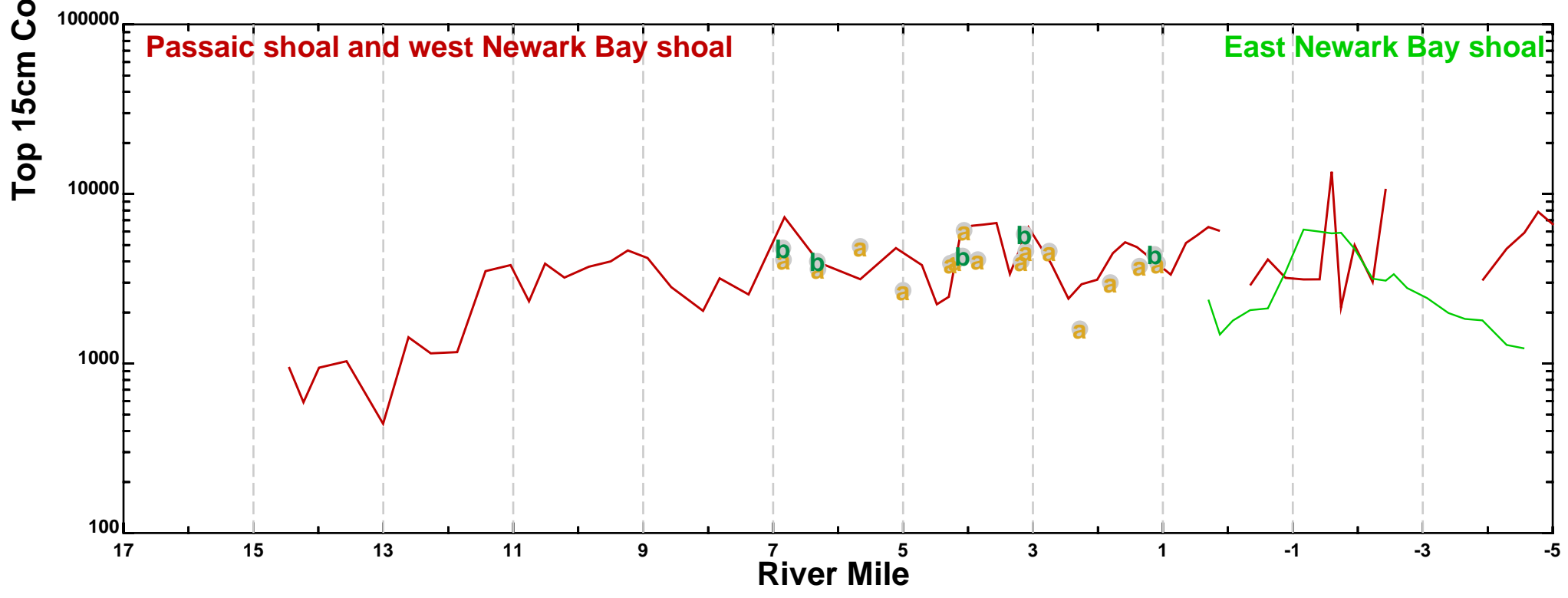
Year =2000.0

Cadmium (ug/kg)



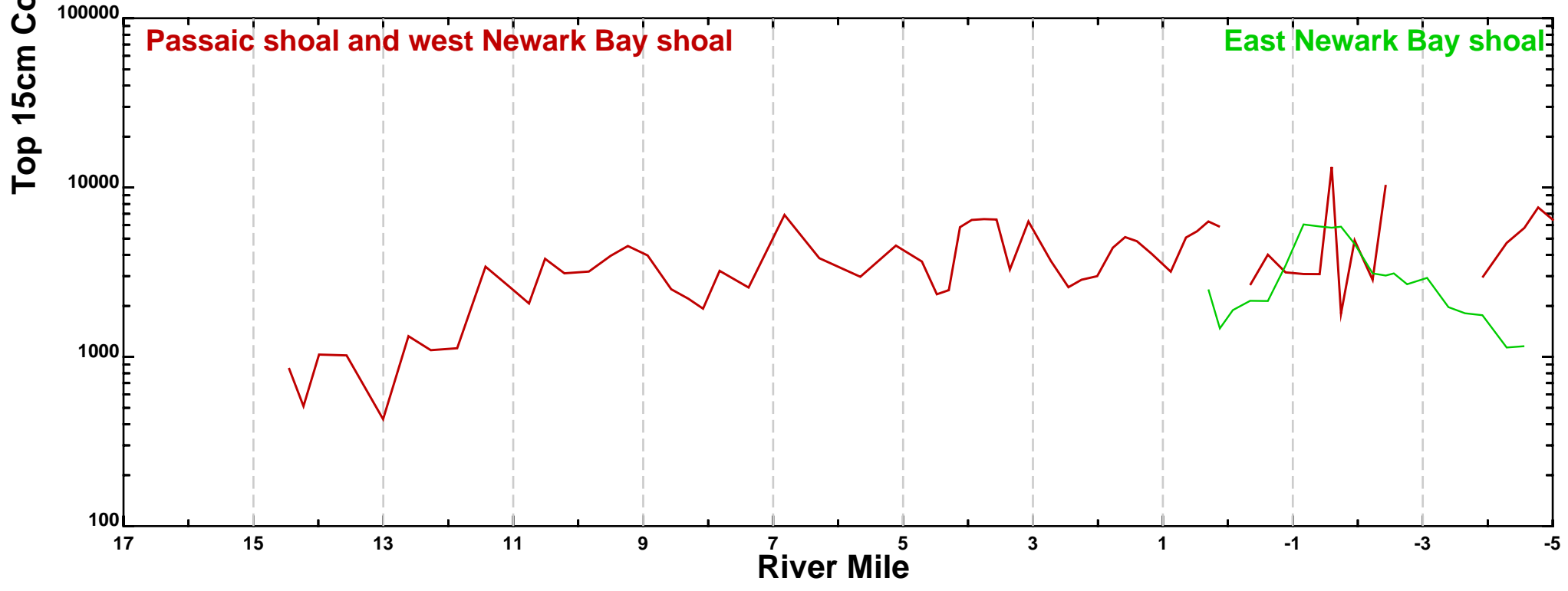
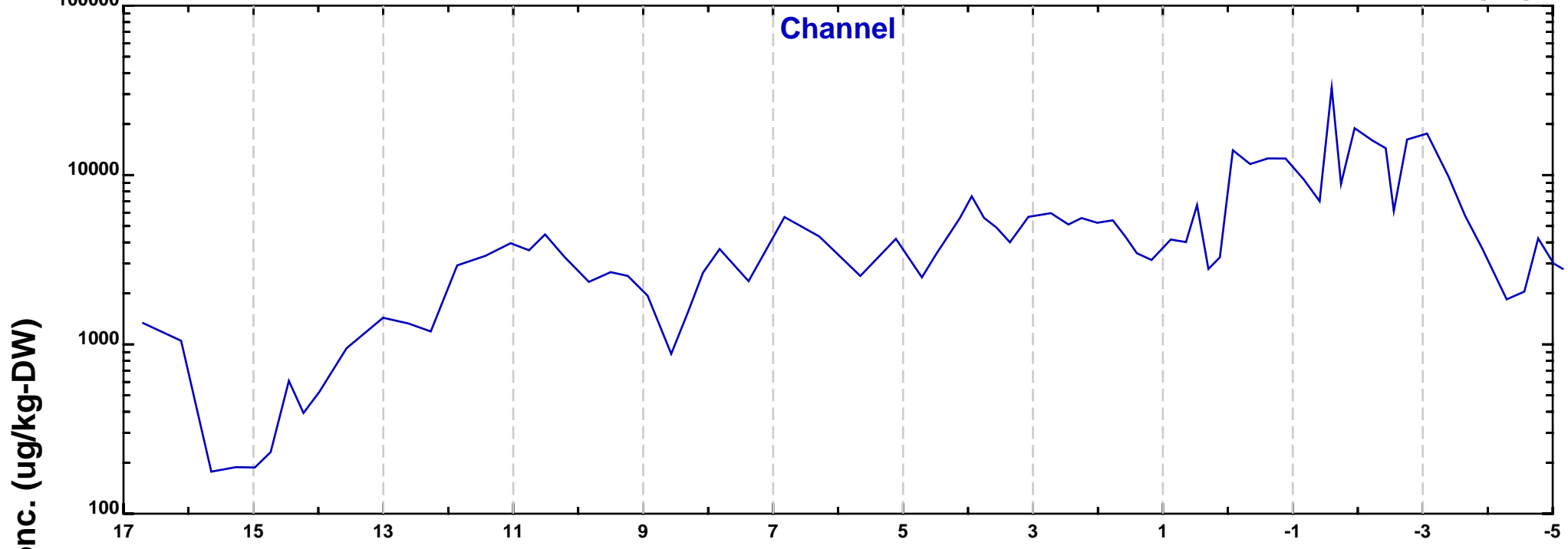
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



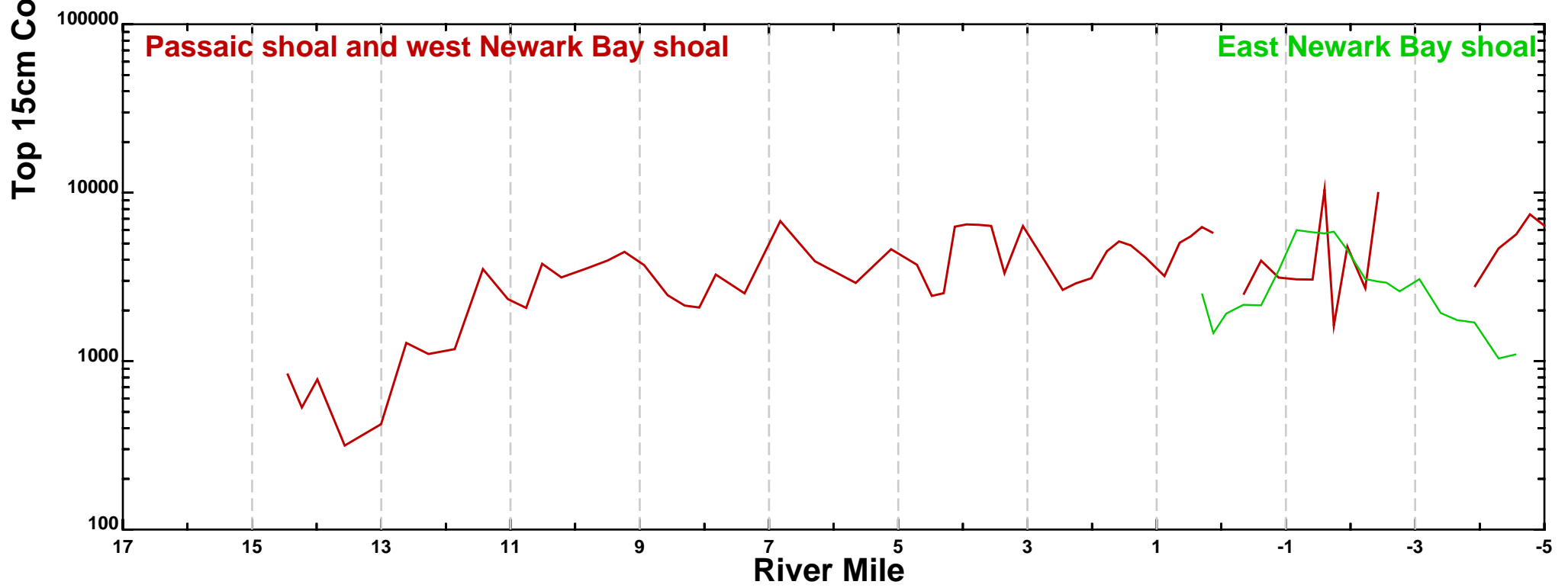
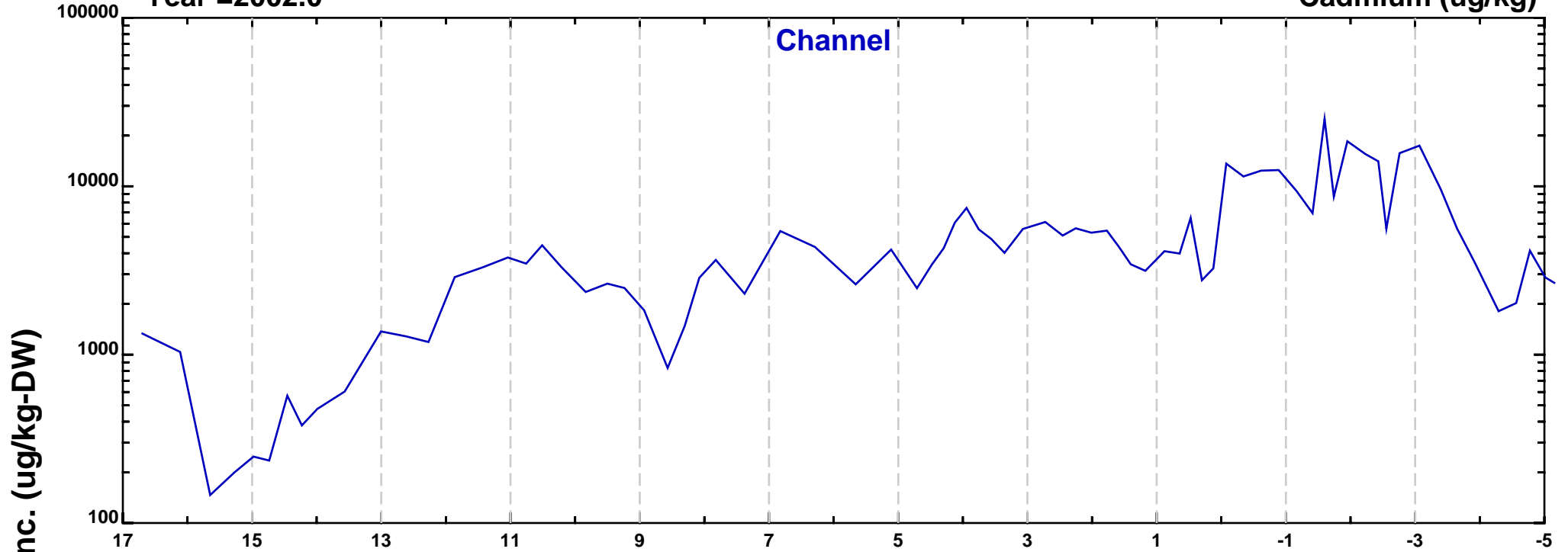
Year =2001.0

Cadmium (ug/kg)



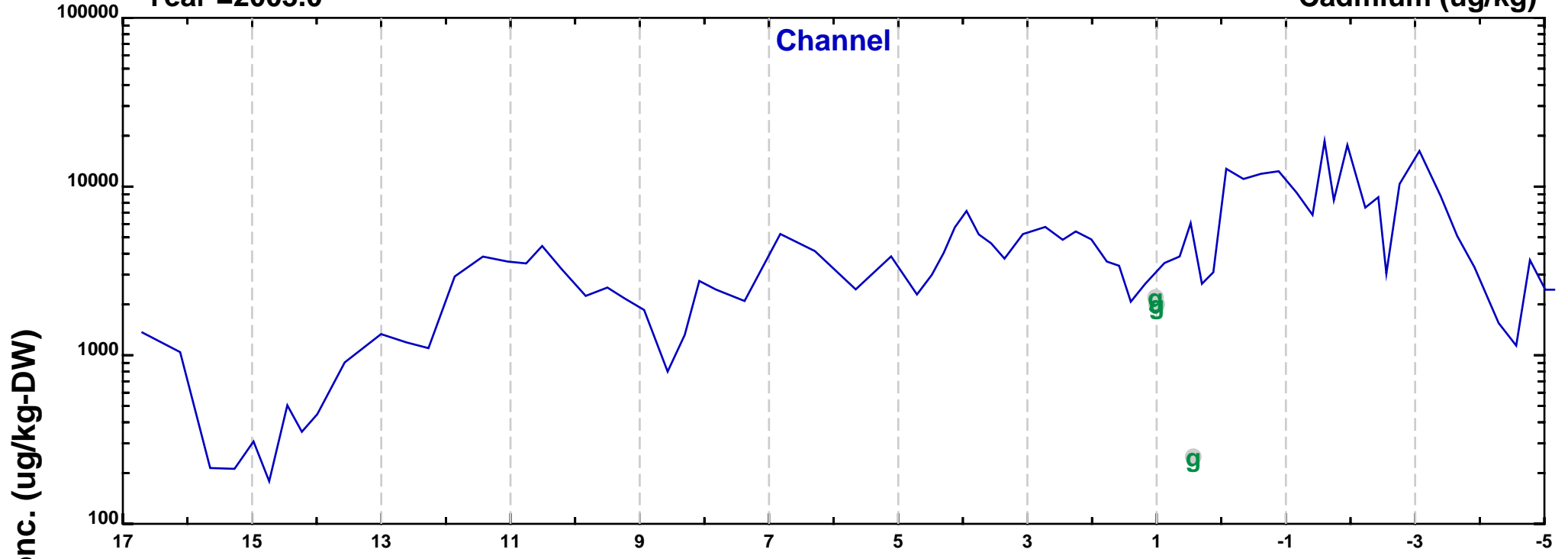
Year =2002.0

Cadmium (ug/kg)



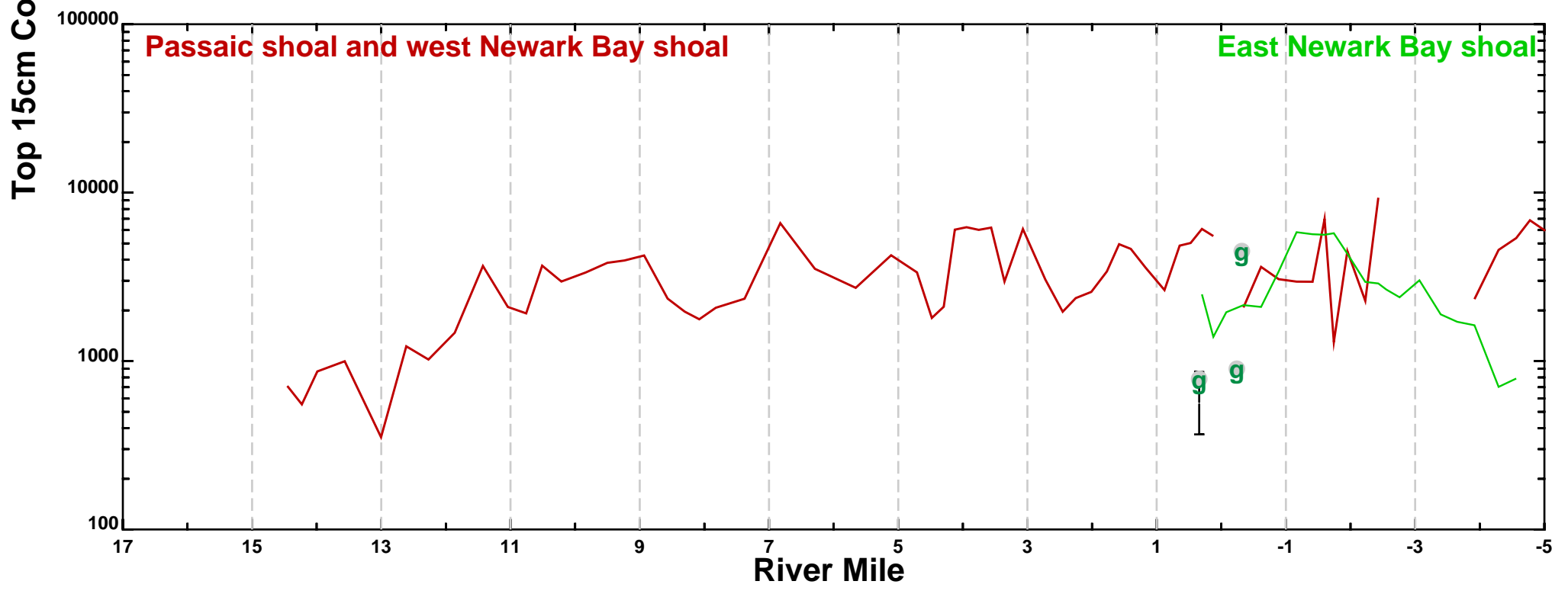
Year =2003.0

Cadmium (ug/kg)



Passaic shoal and west Newark Bay shoal

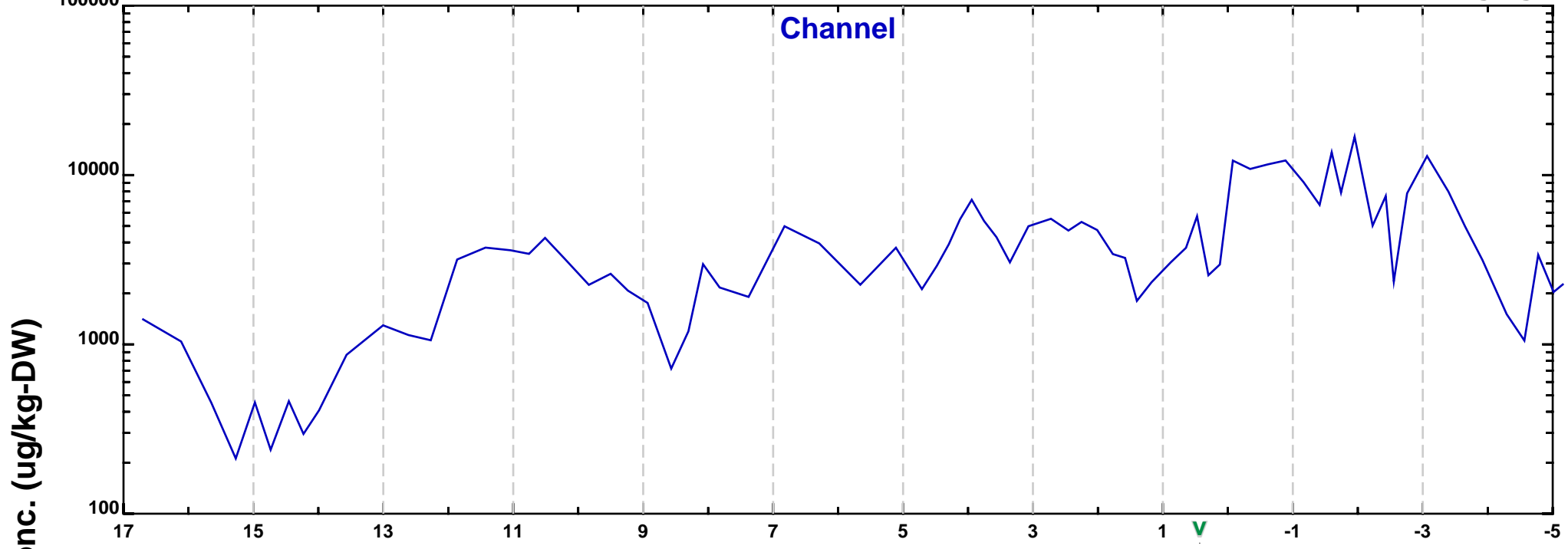
East Newark Bay shoal



River Mile

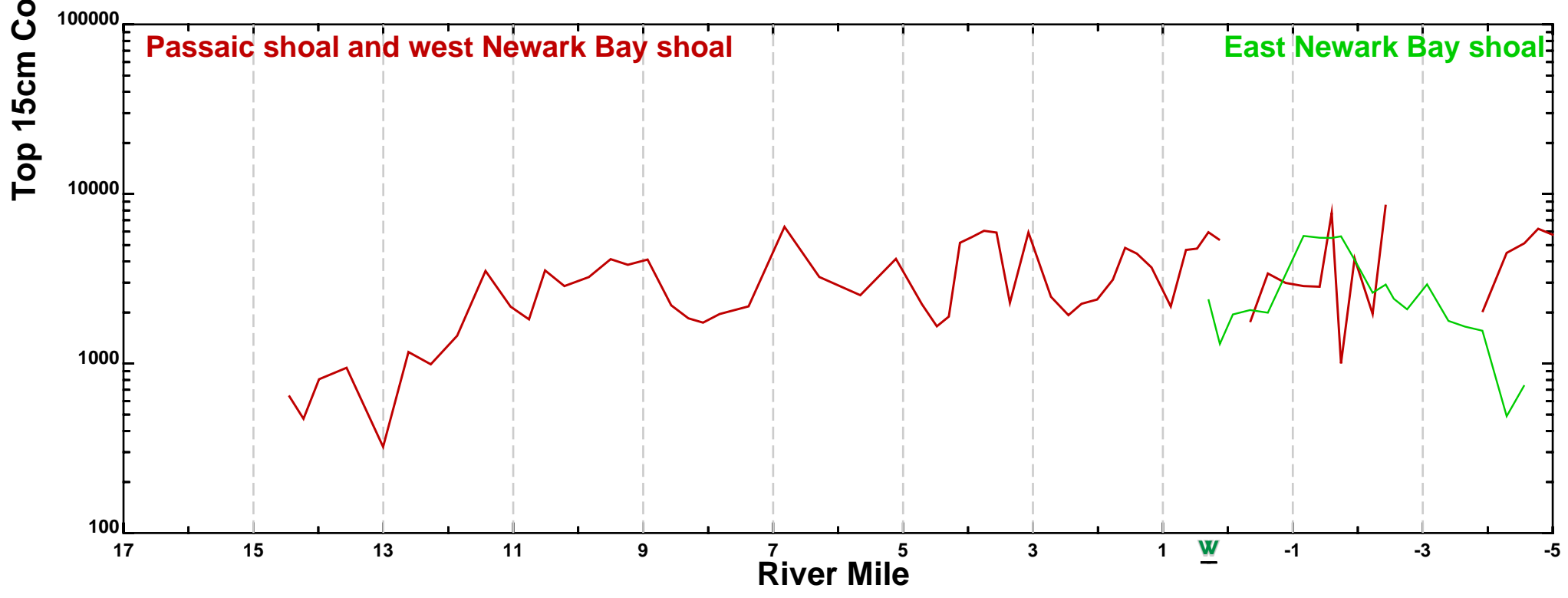
Year =2004.0

Cadmium (ug/kg)



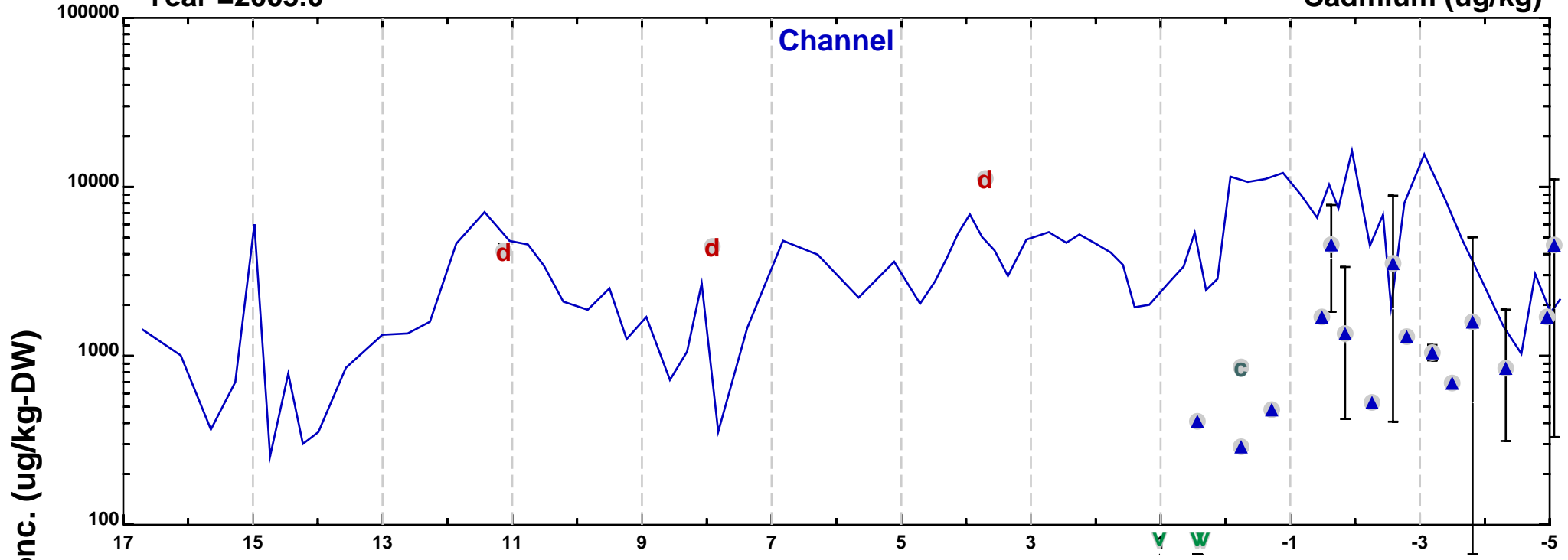
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



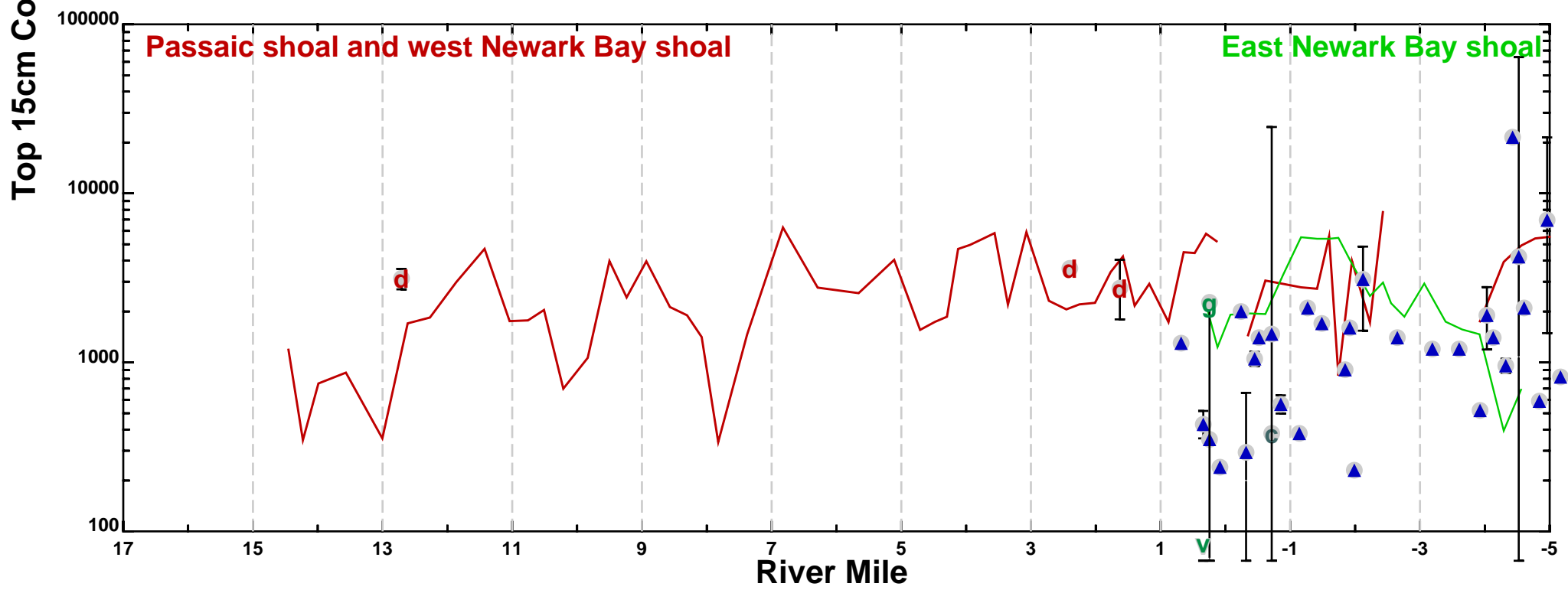
Year =2005.0

Cadmium (ug/kg)



Passaic shoal and west Newark Bay shoal

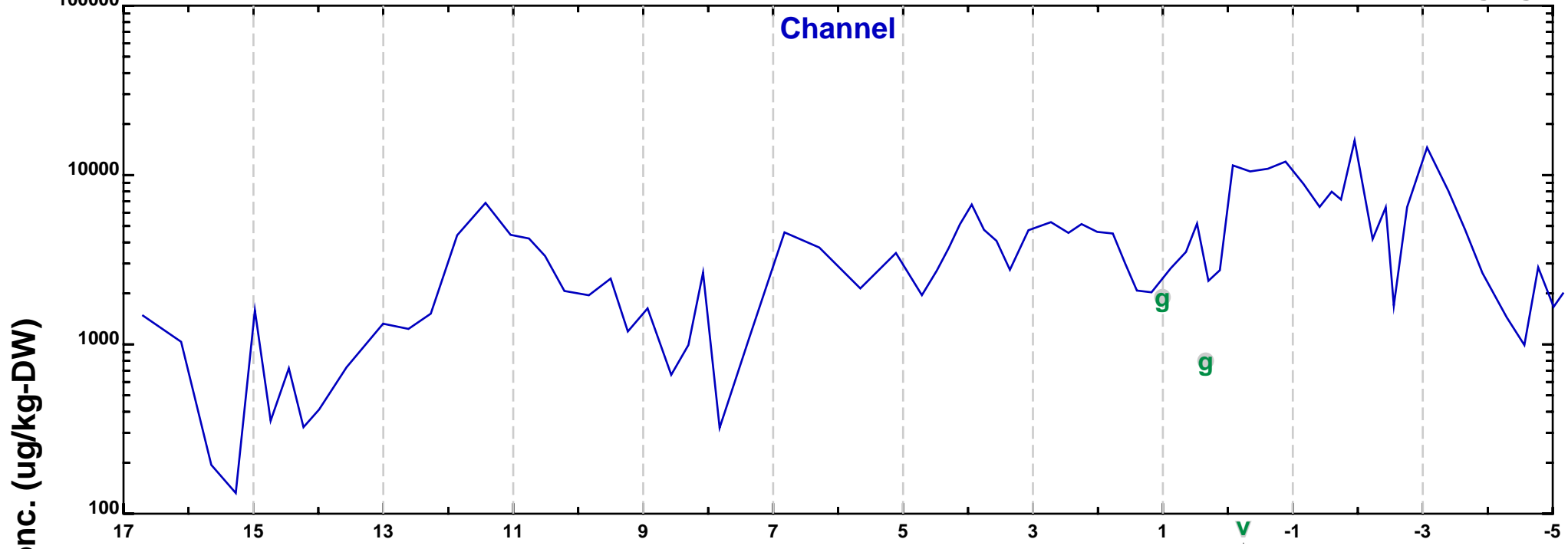
East Newark Bay shoal





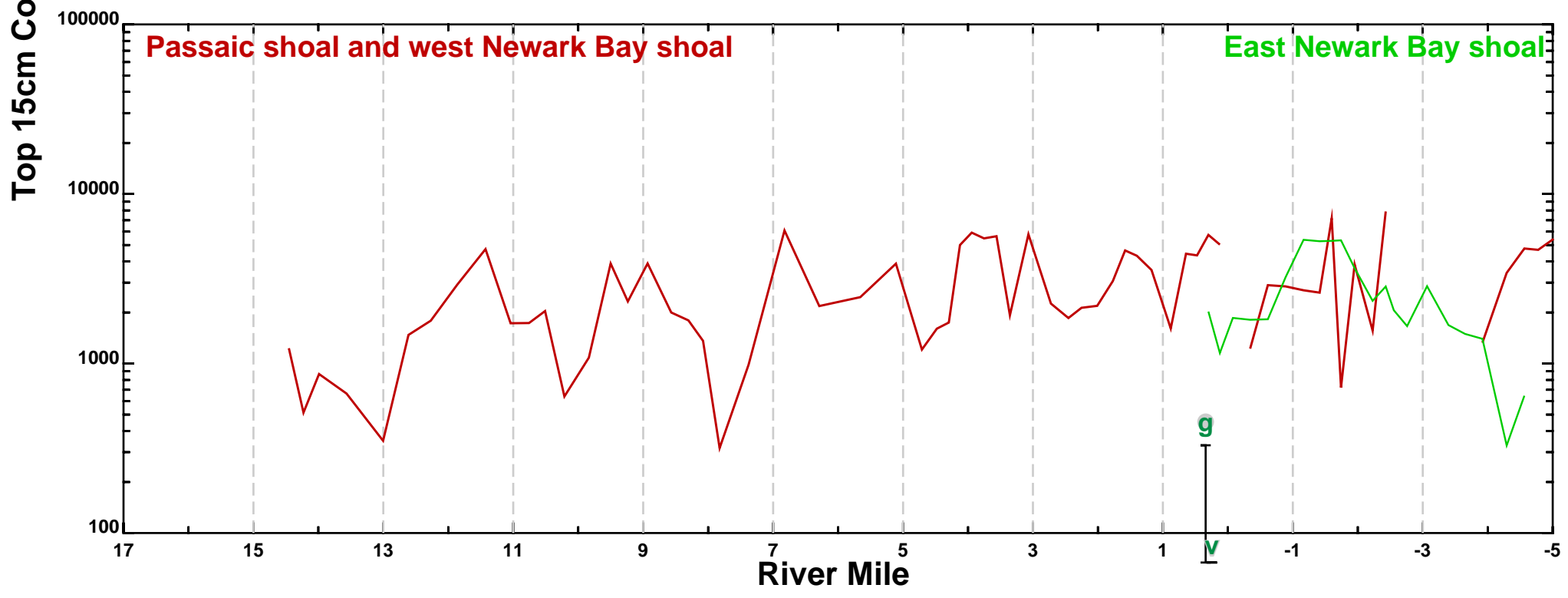
Year =2006.0

Cadmium (ug/kg)



Passaic shoal and west Newark Bay shoal

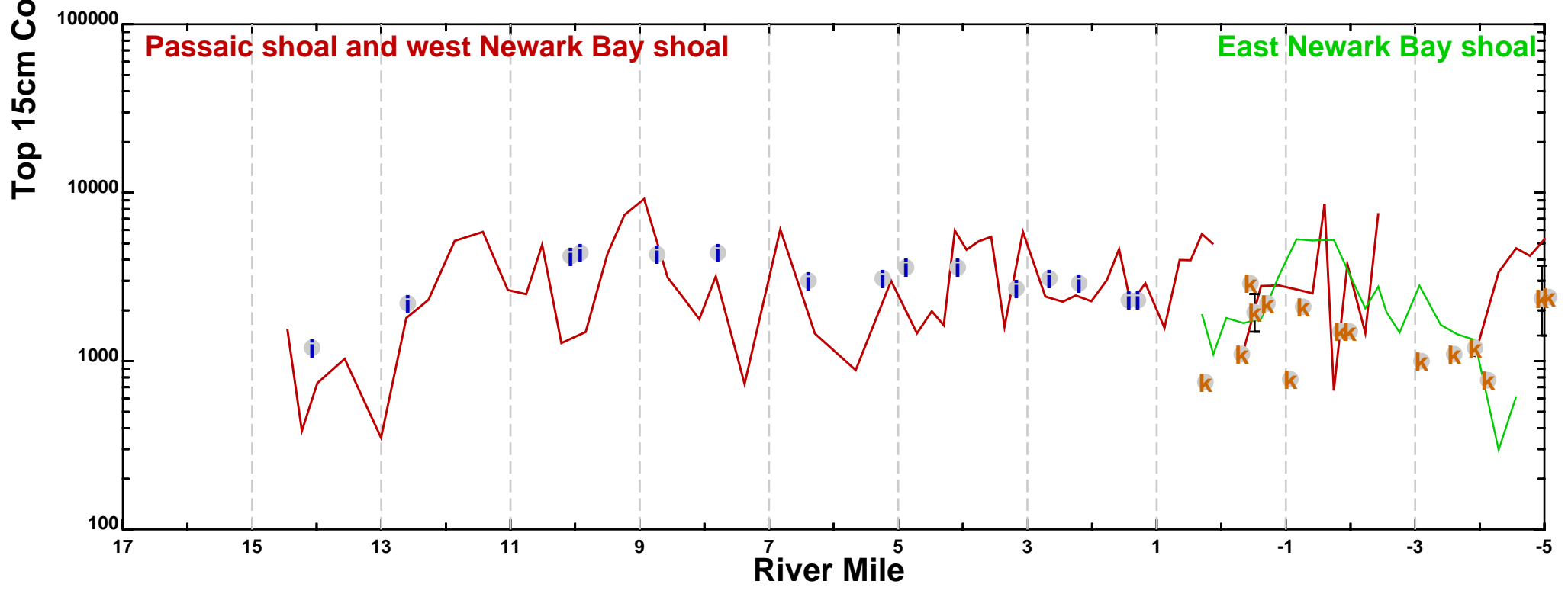
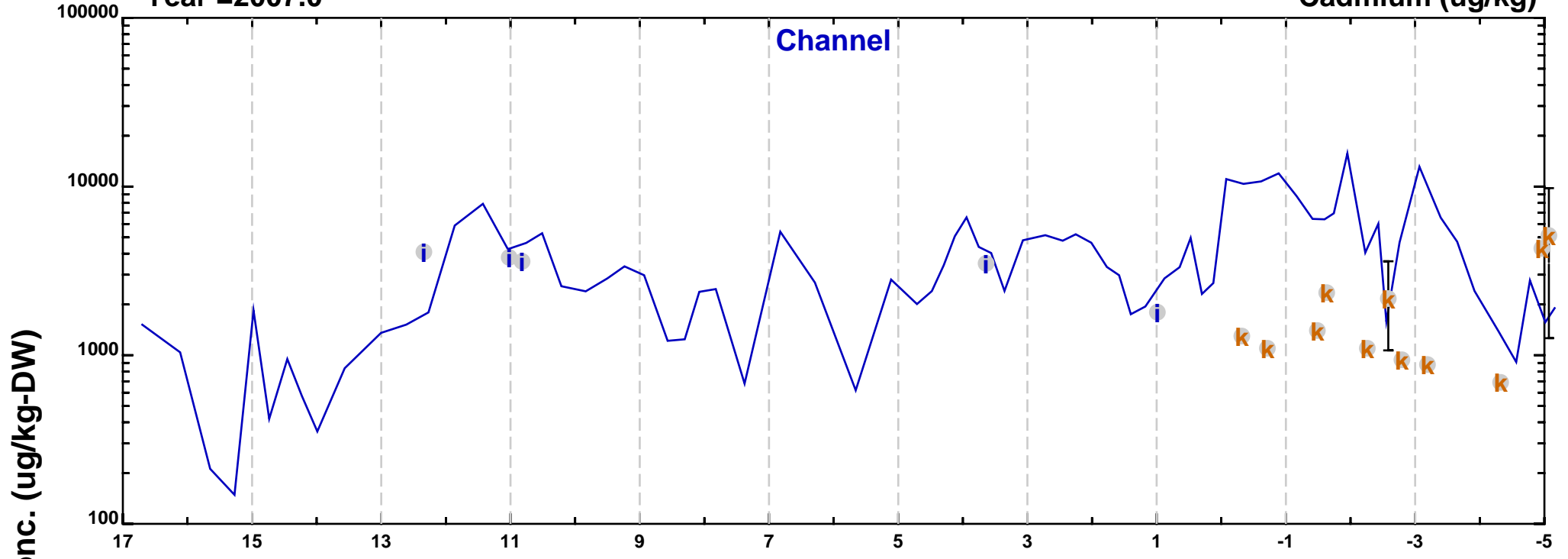
East Newark Bay shoal



River Mile

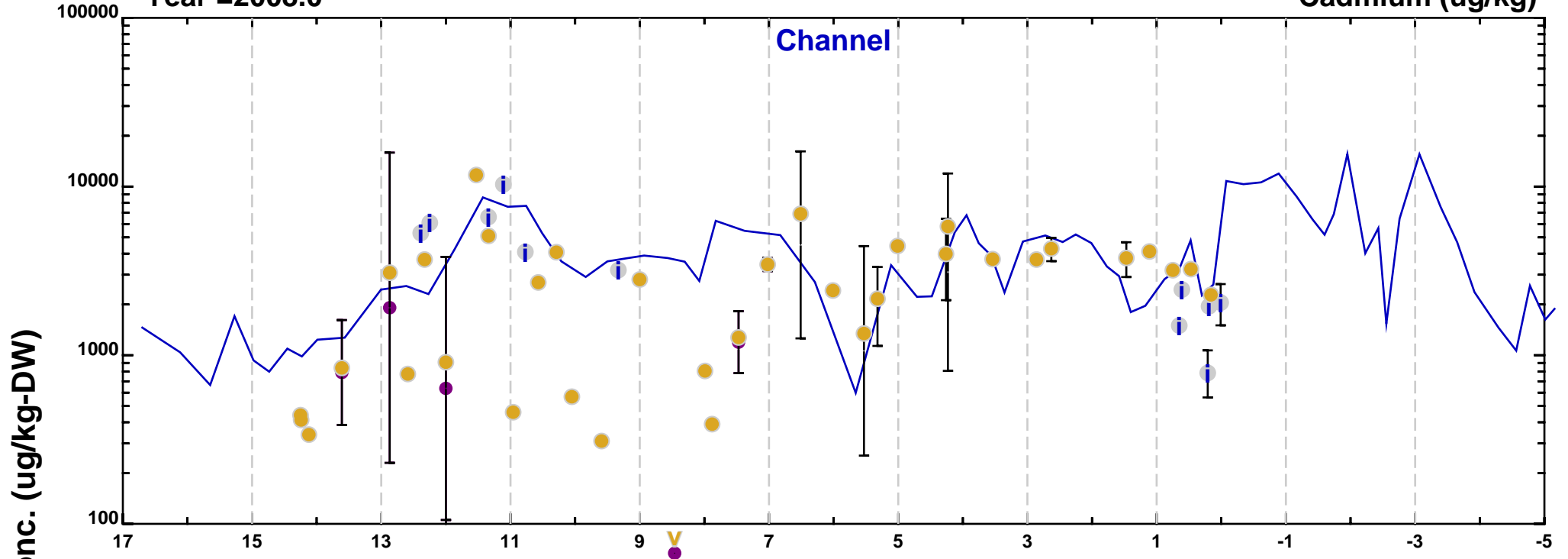
Year =2007.0

Cadmium (ug/kg)



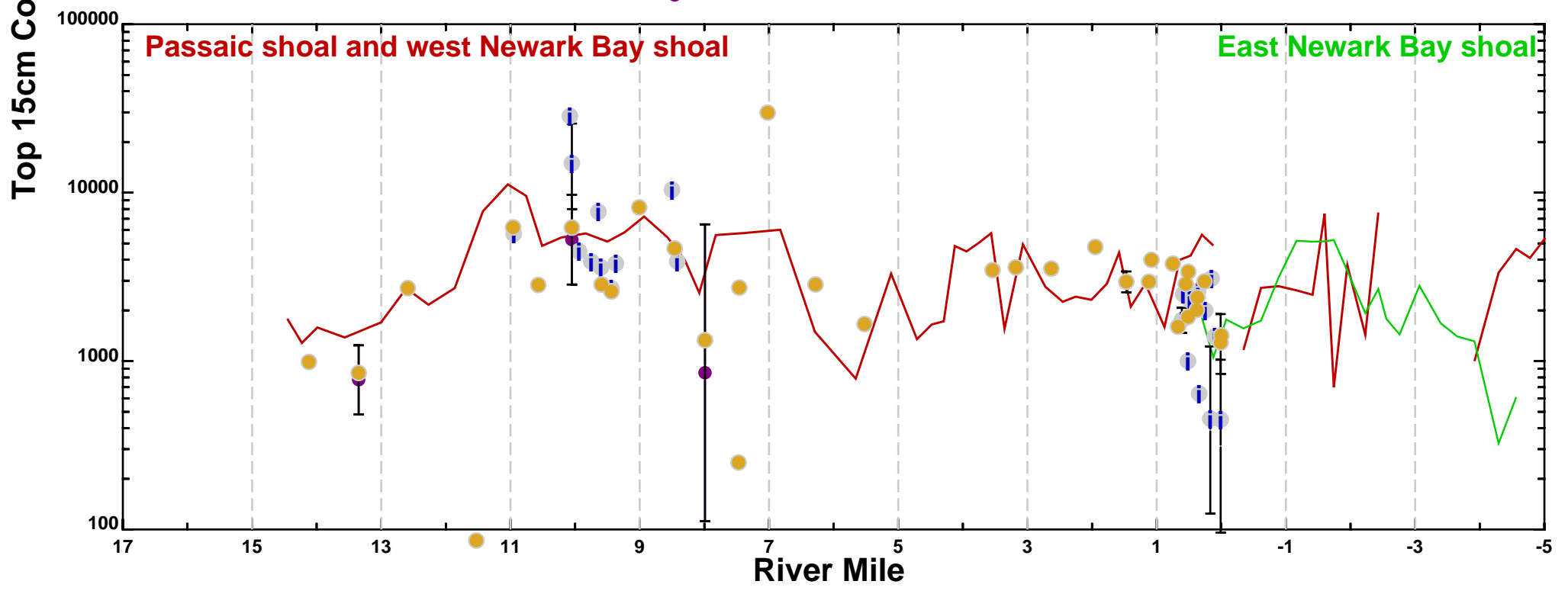
Year =2008.0

Cadmium (ug/kg)



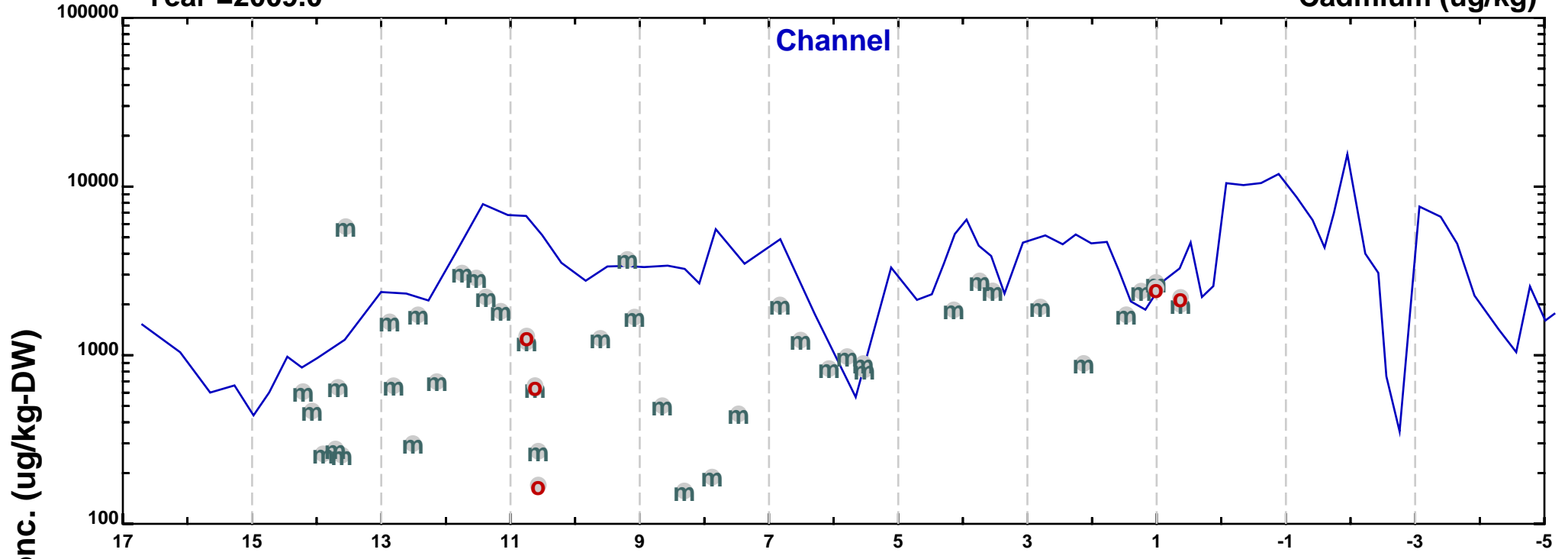
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



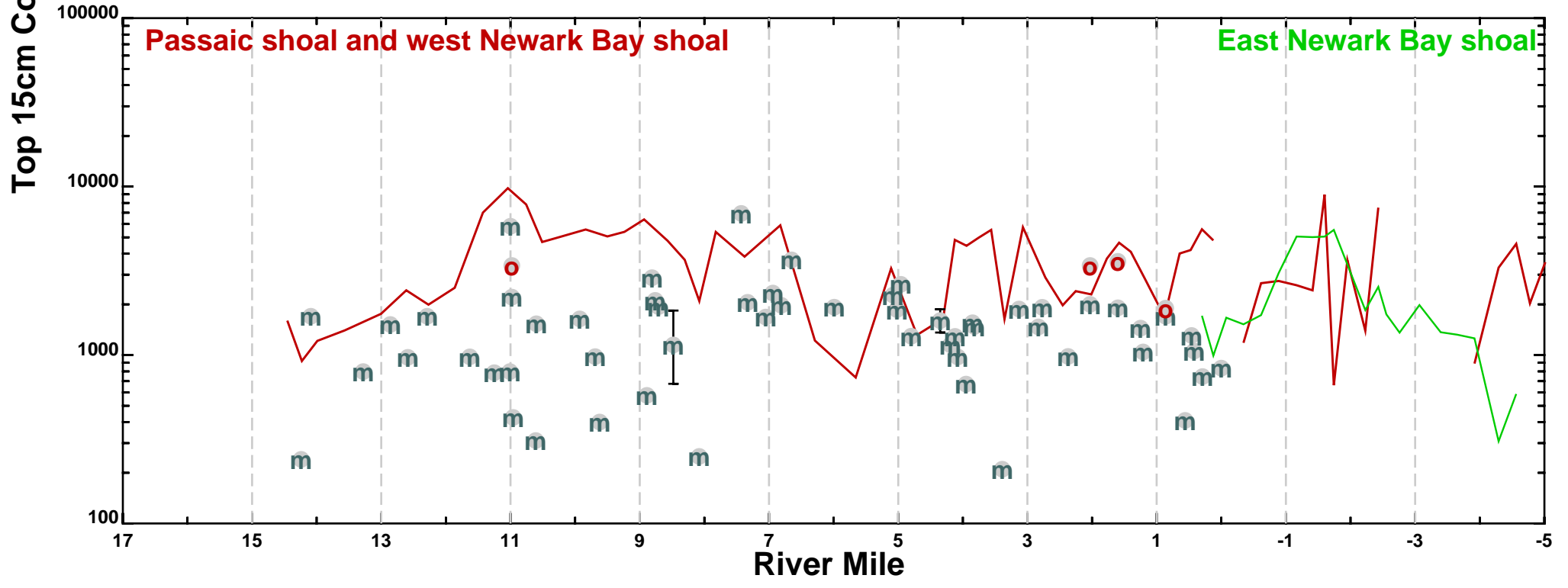
Year =2009.0

Cadmium (ug/kg)



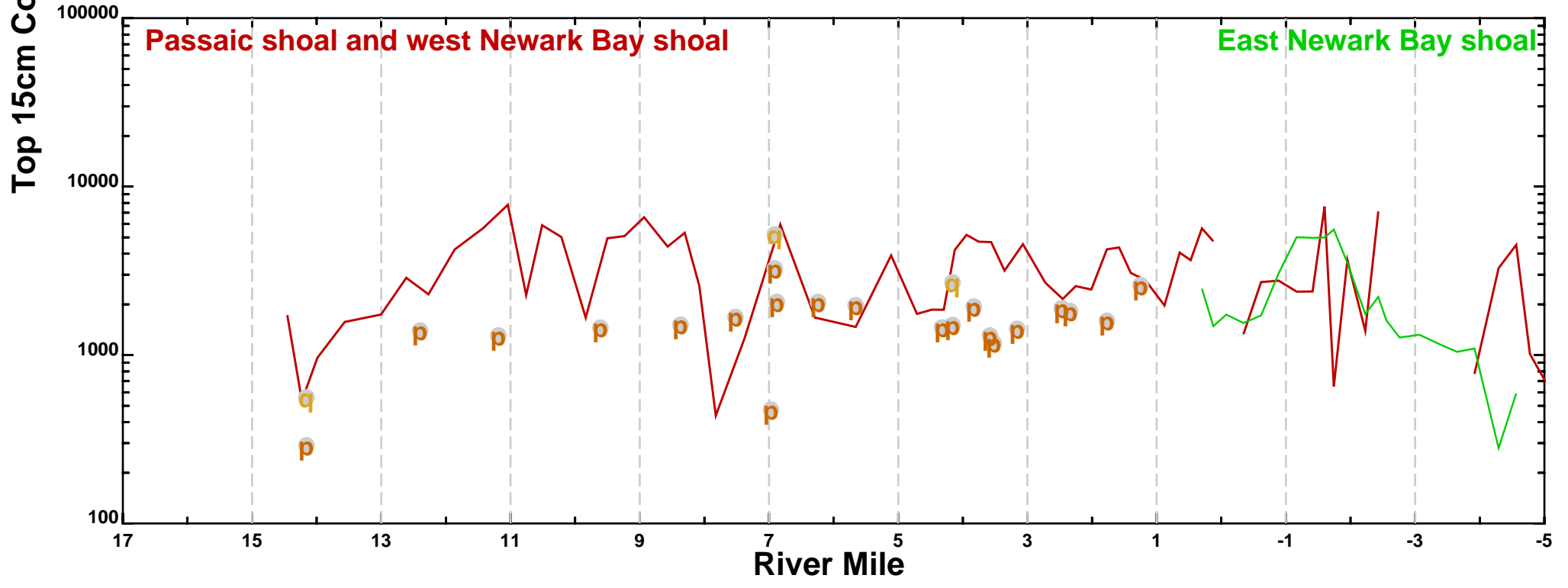
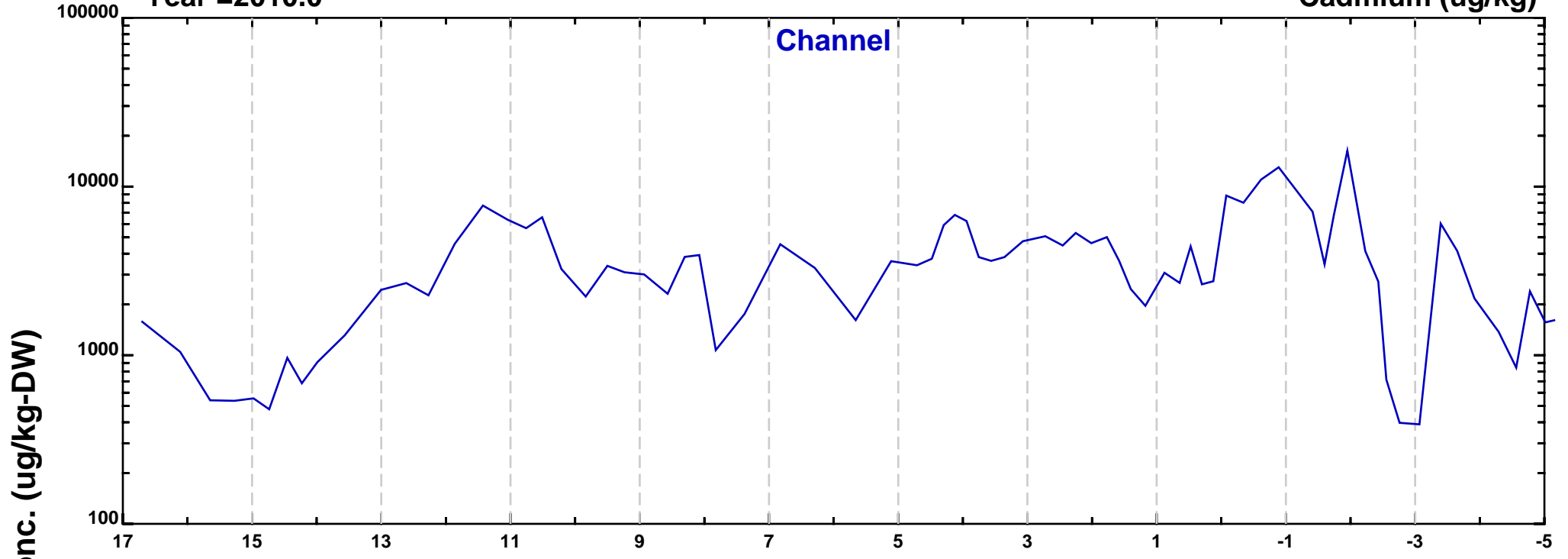
Passaic shoal and west Newark Bay shoal

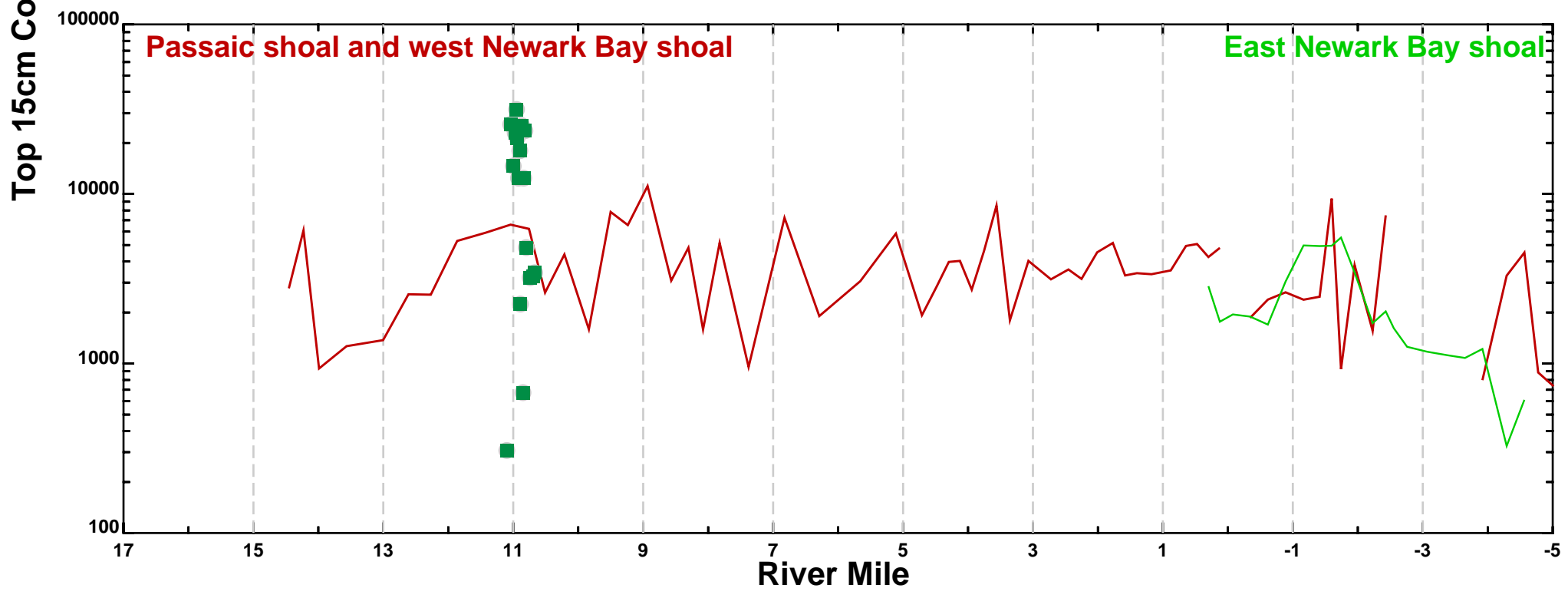
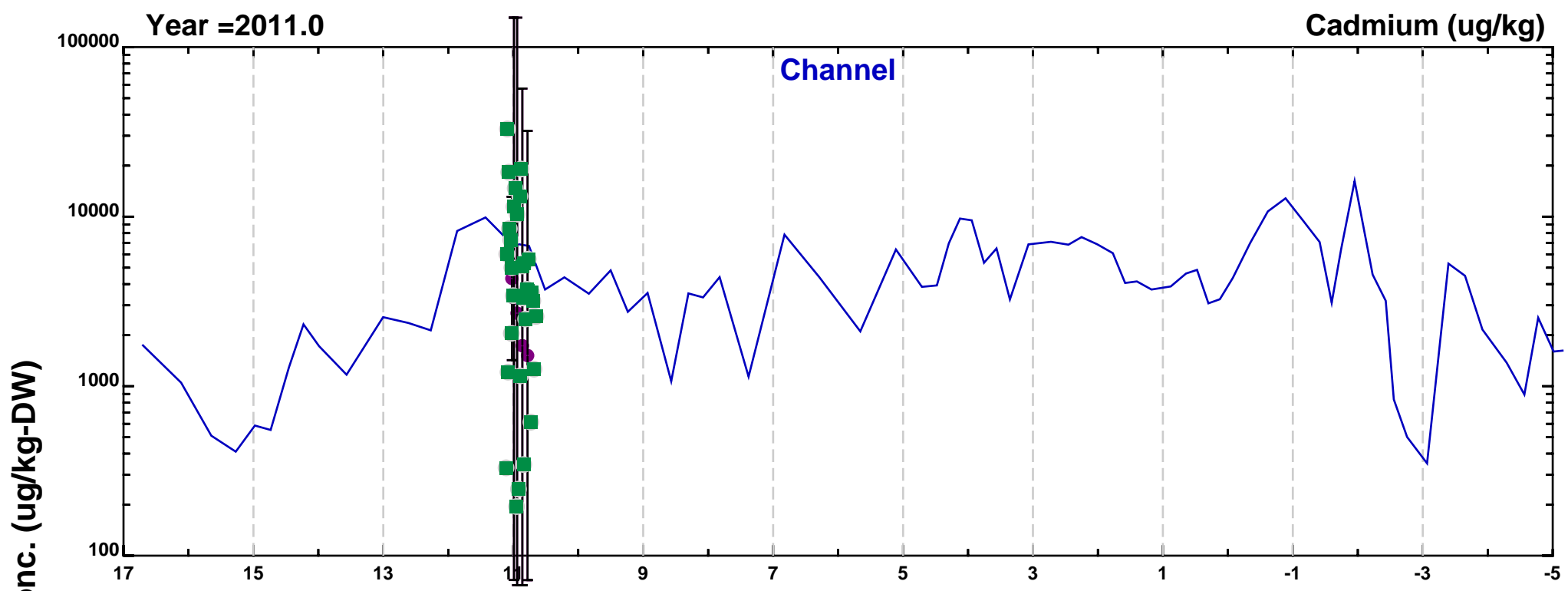
East Newark Bay shoal



Year =2010.0

Cadmium (ug/kg)





Year =2012.0

Cadmium (ug/kg)

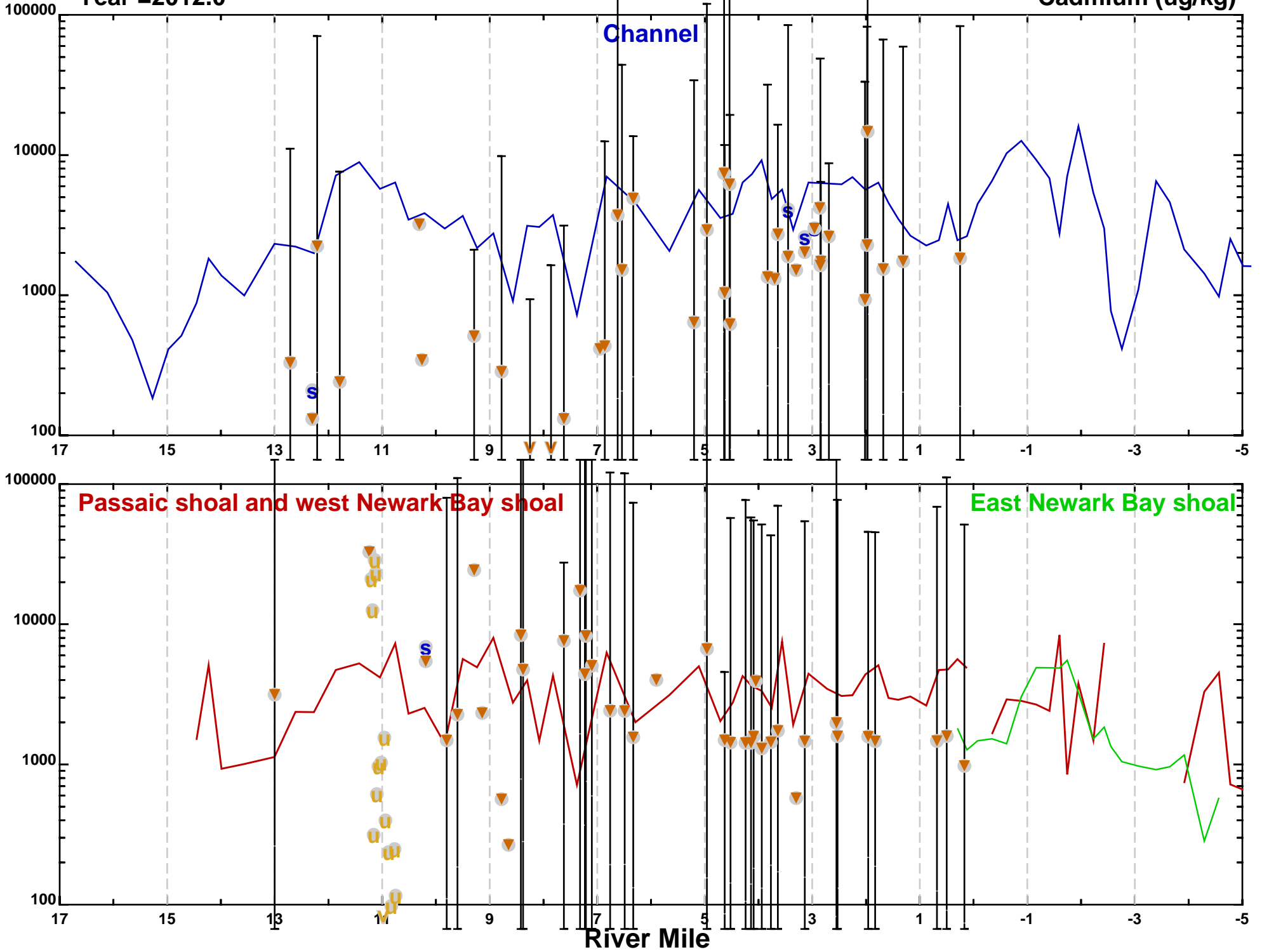
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

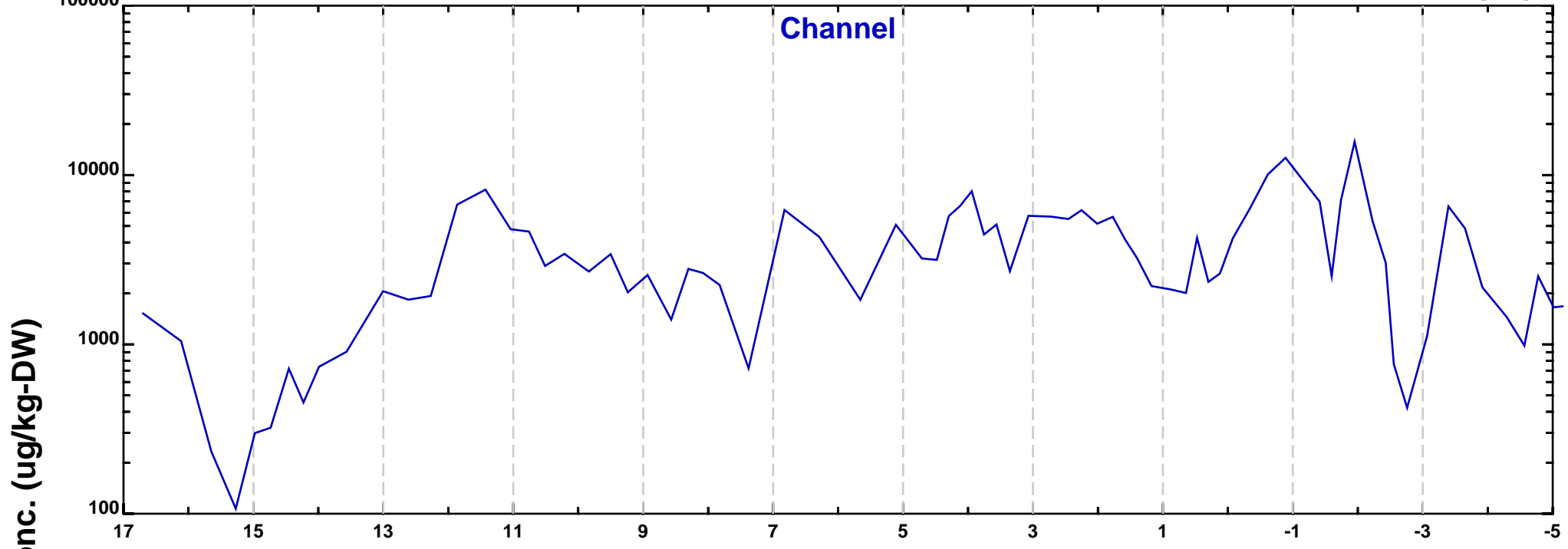
East Newark Bay shoal

River Mile



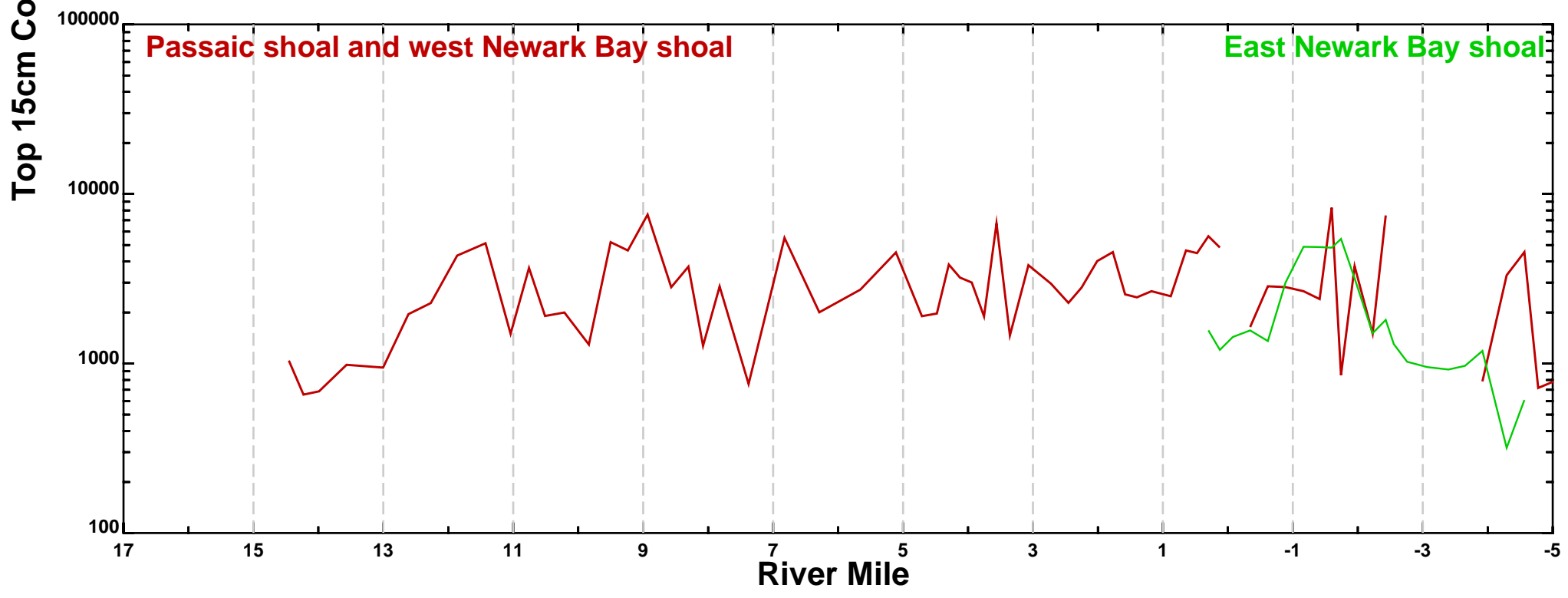
Year =2013.0

Cadmium (ug/kg)



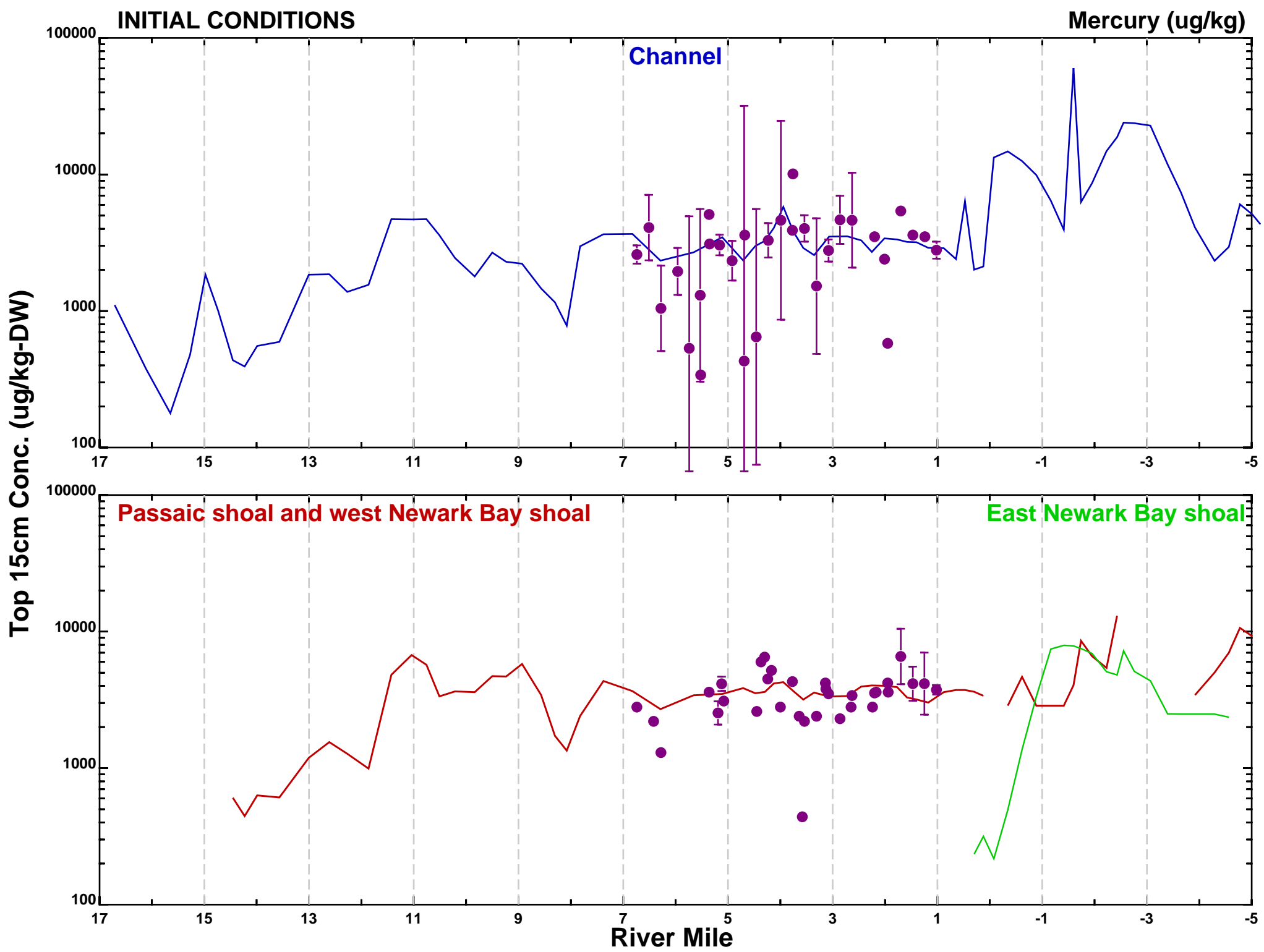
Passaic shoal and west Newark Bay shoal

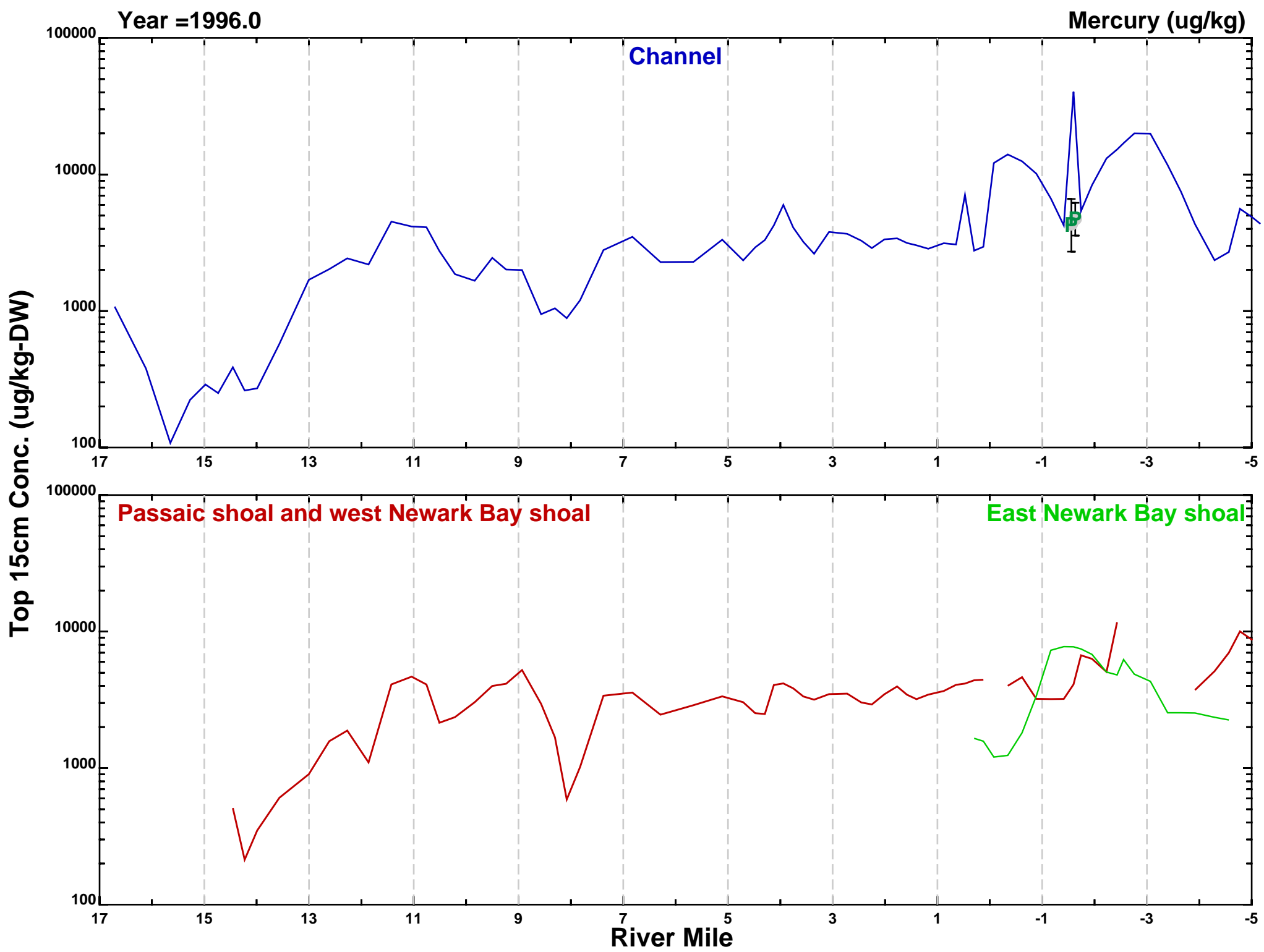
East Newark Bay shoal

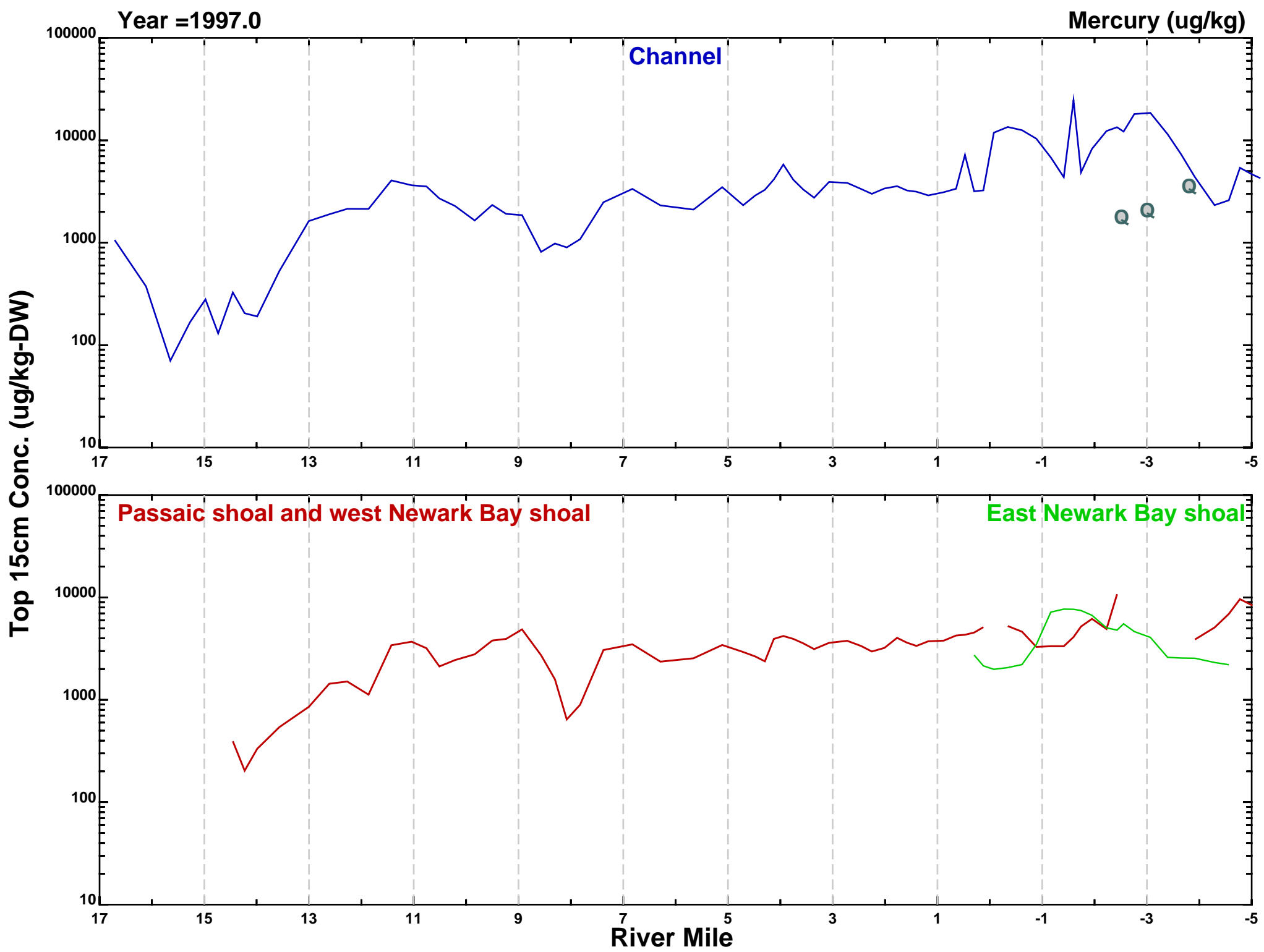


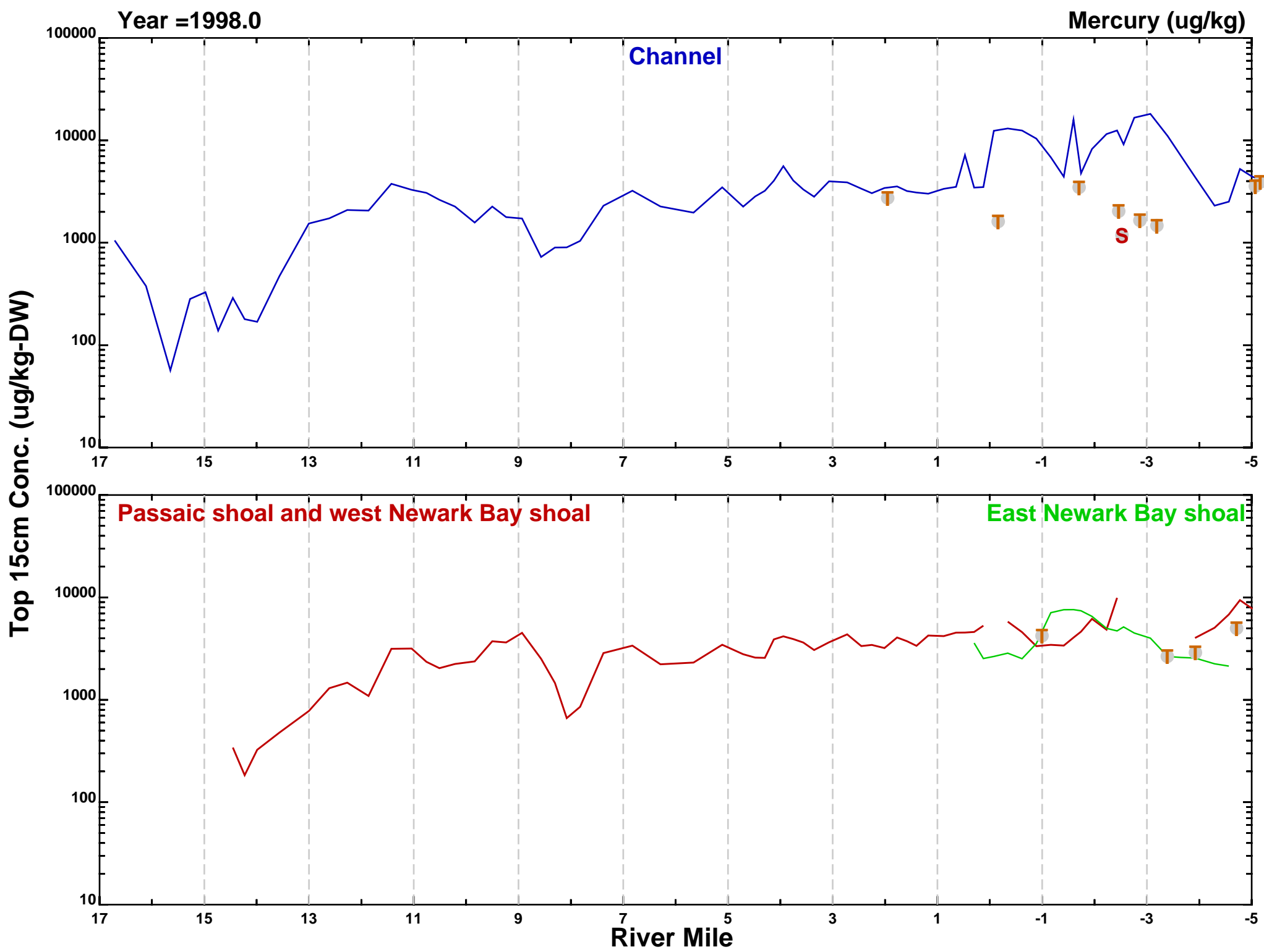
River Mile





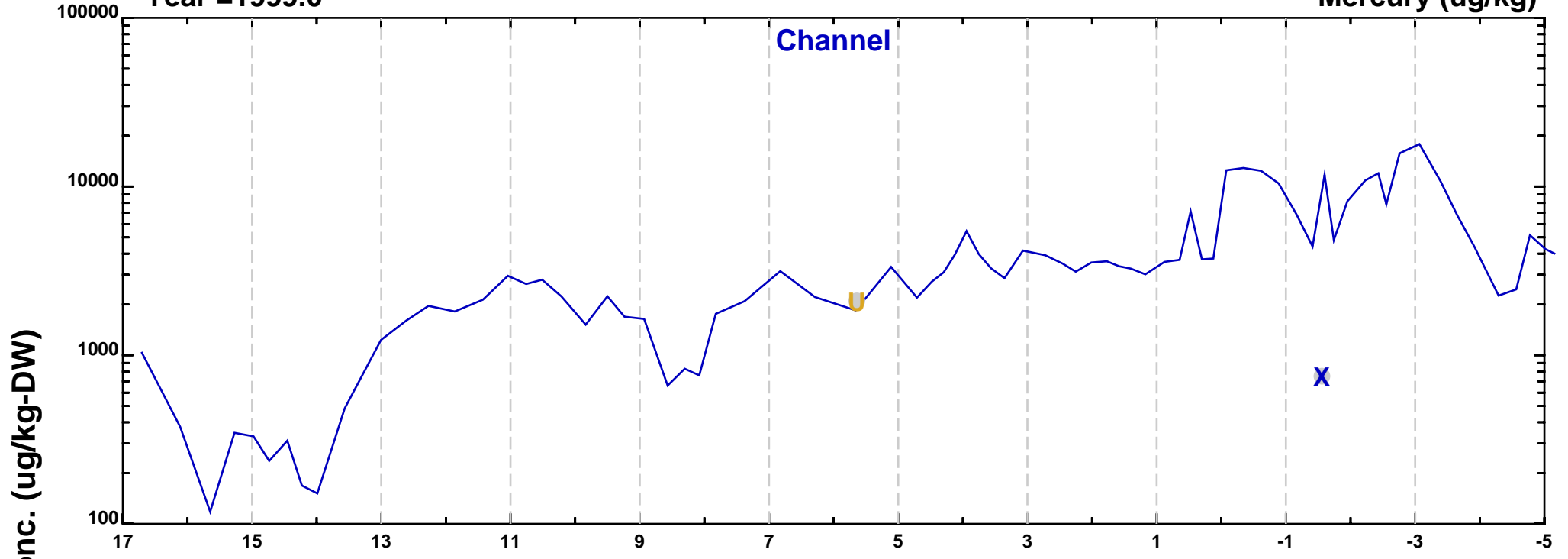






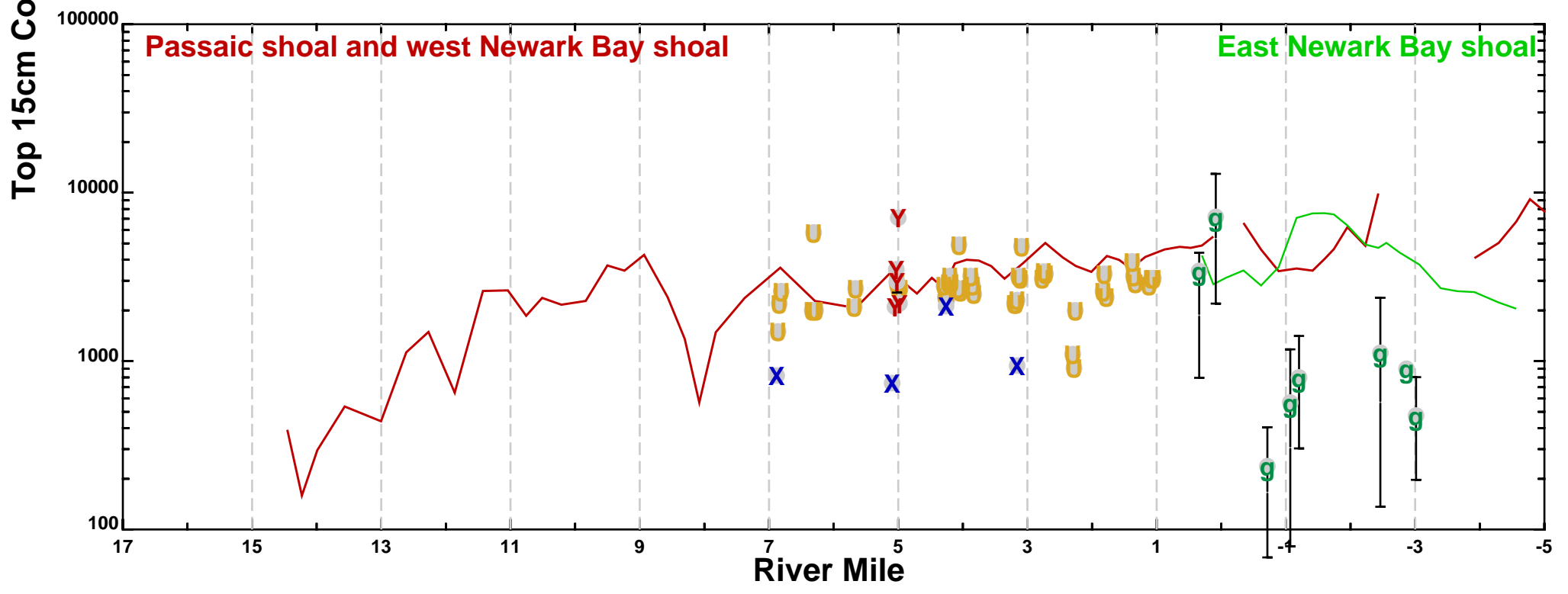
Year = 1999.0

Mercury (ug/kg)

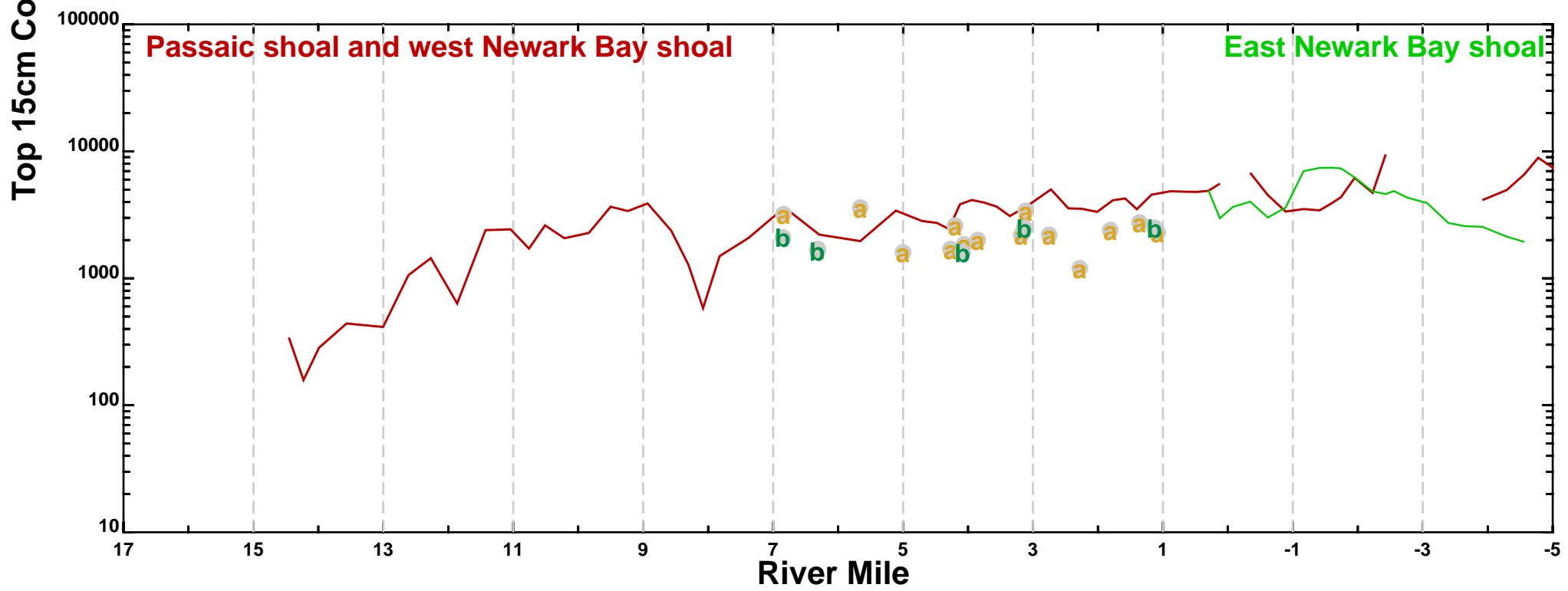
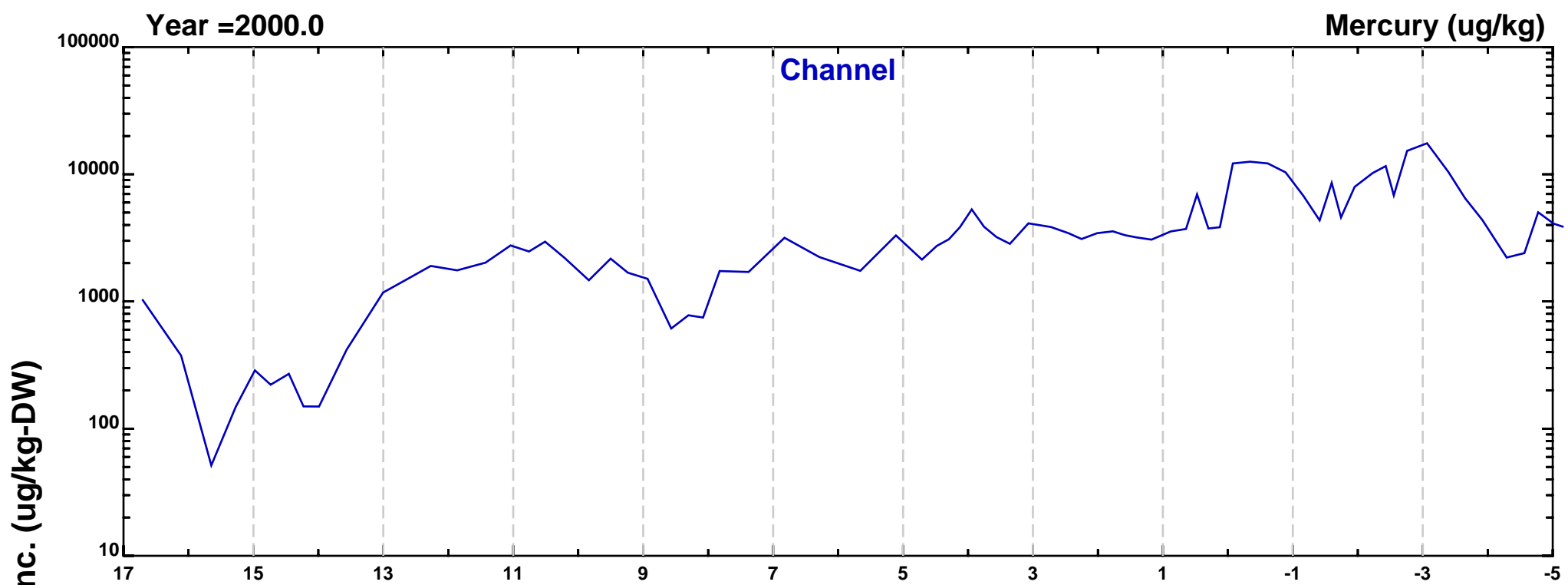


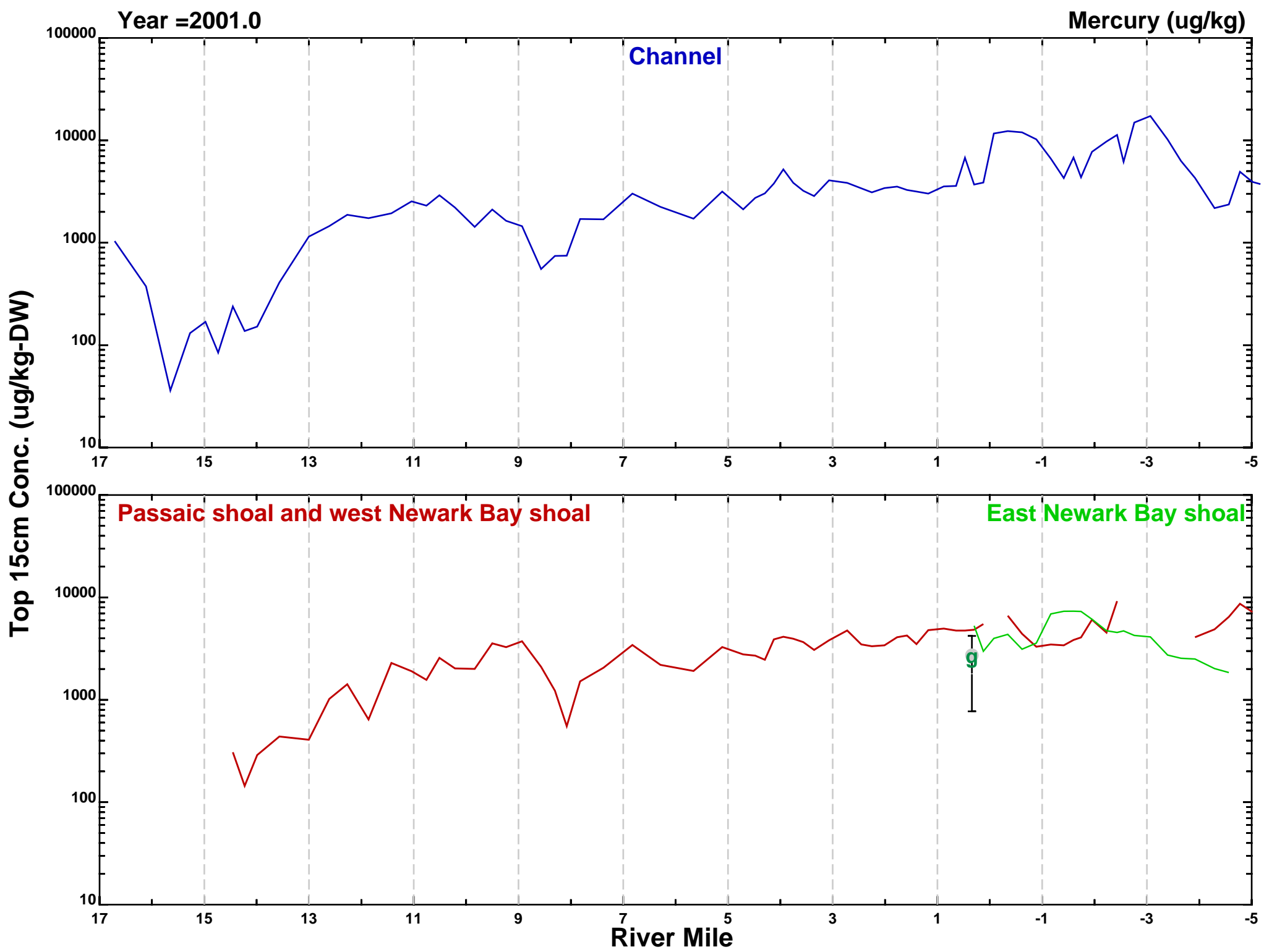
Passaic shoal and west Newark Bay shoal

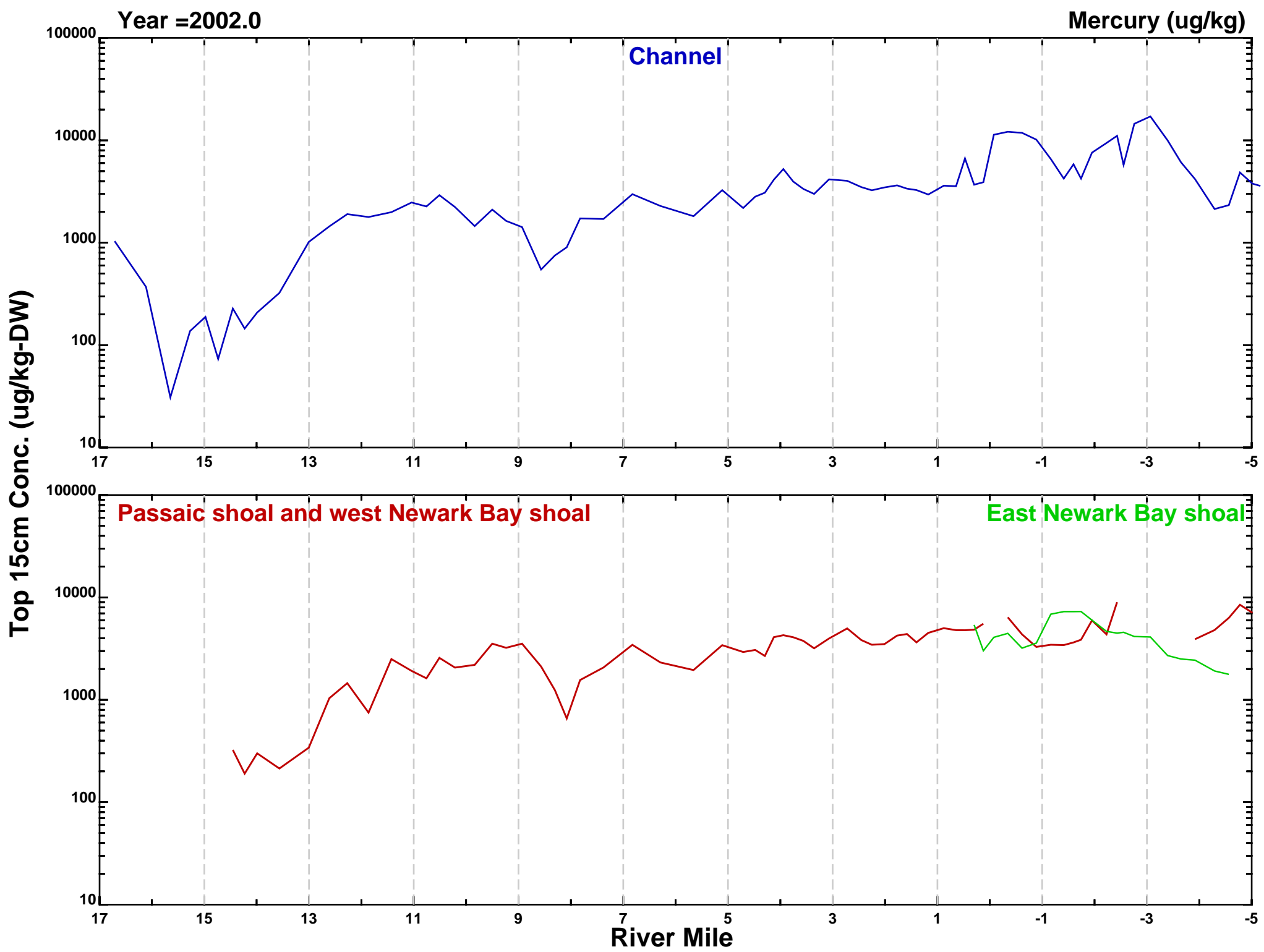
East Newark Bay shoal



River Mile



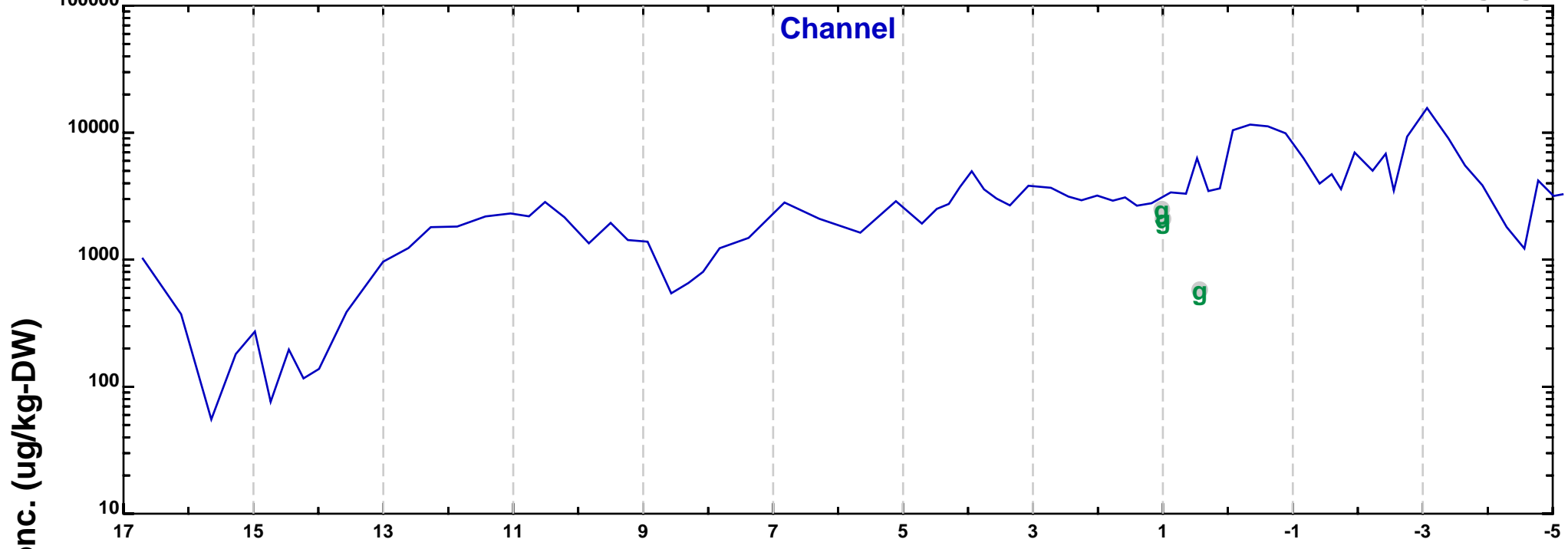






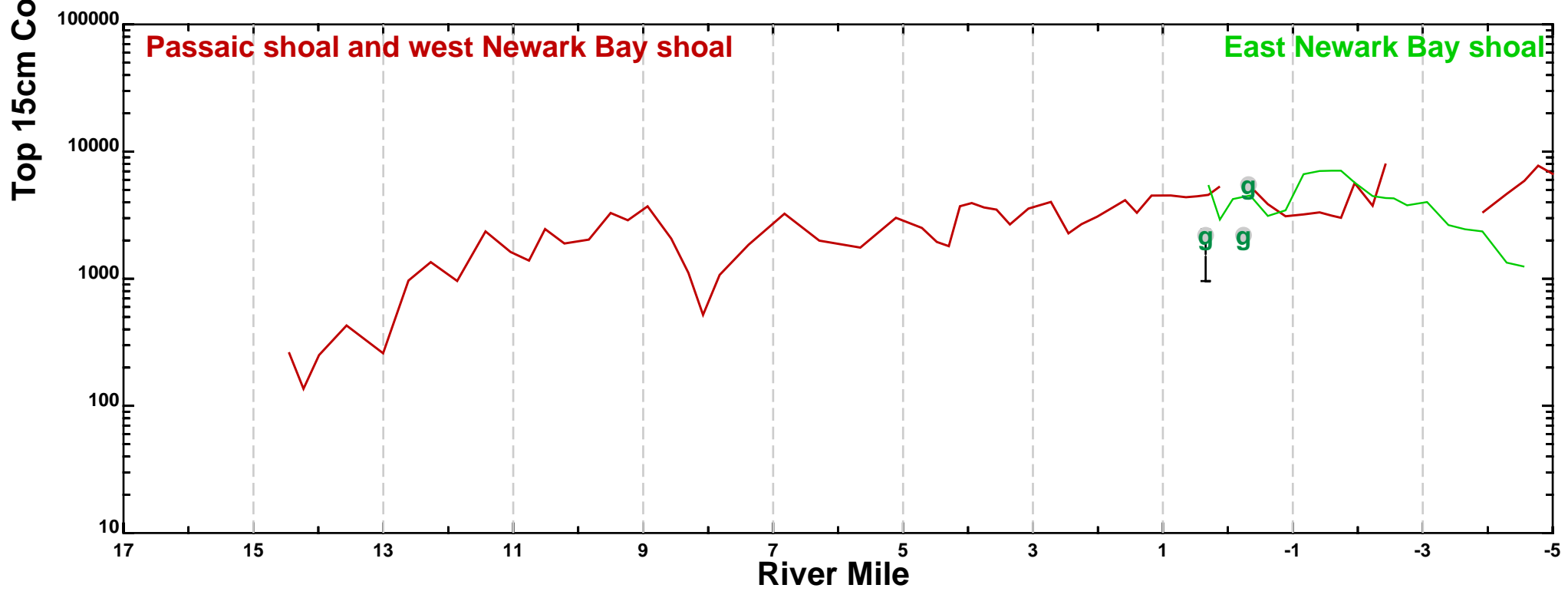
Year =2003.0

Mercury (ug/kg)



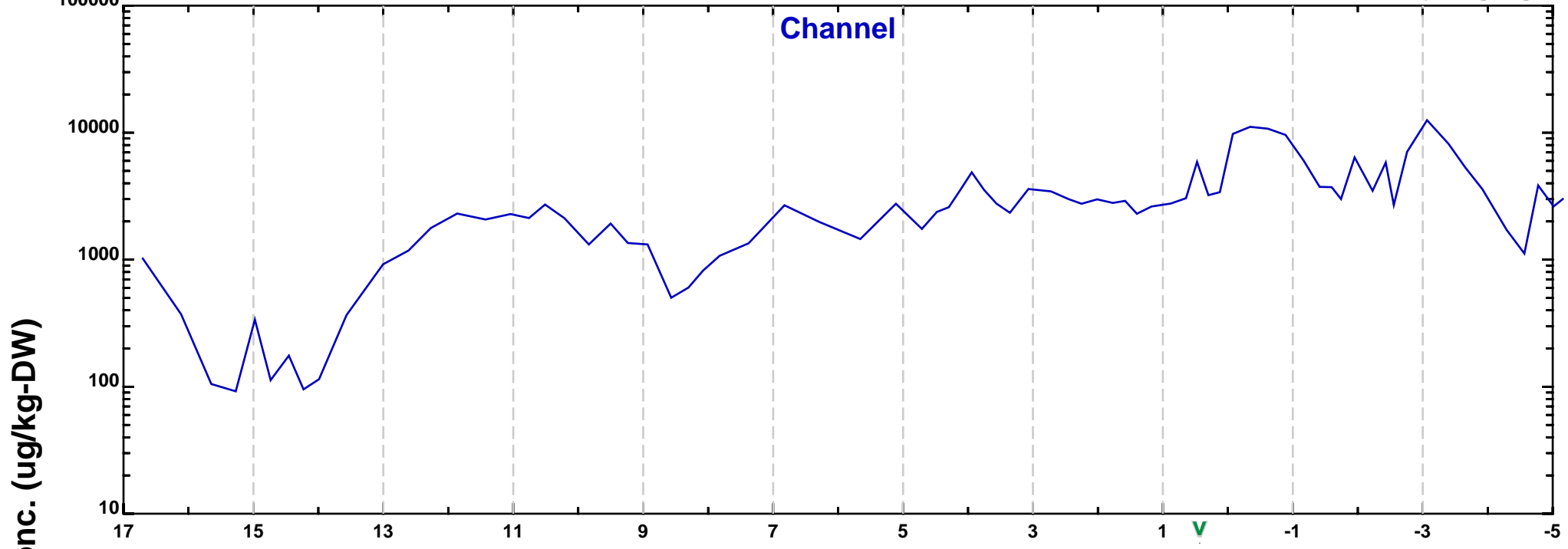
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



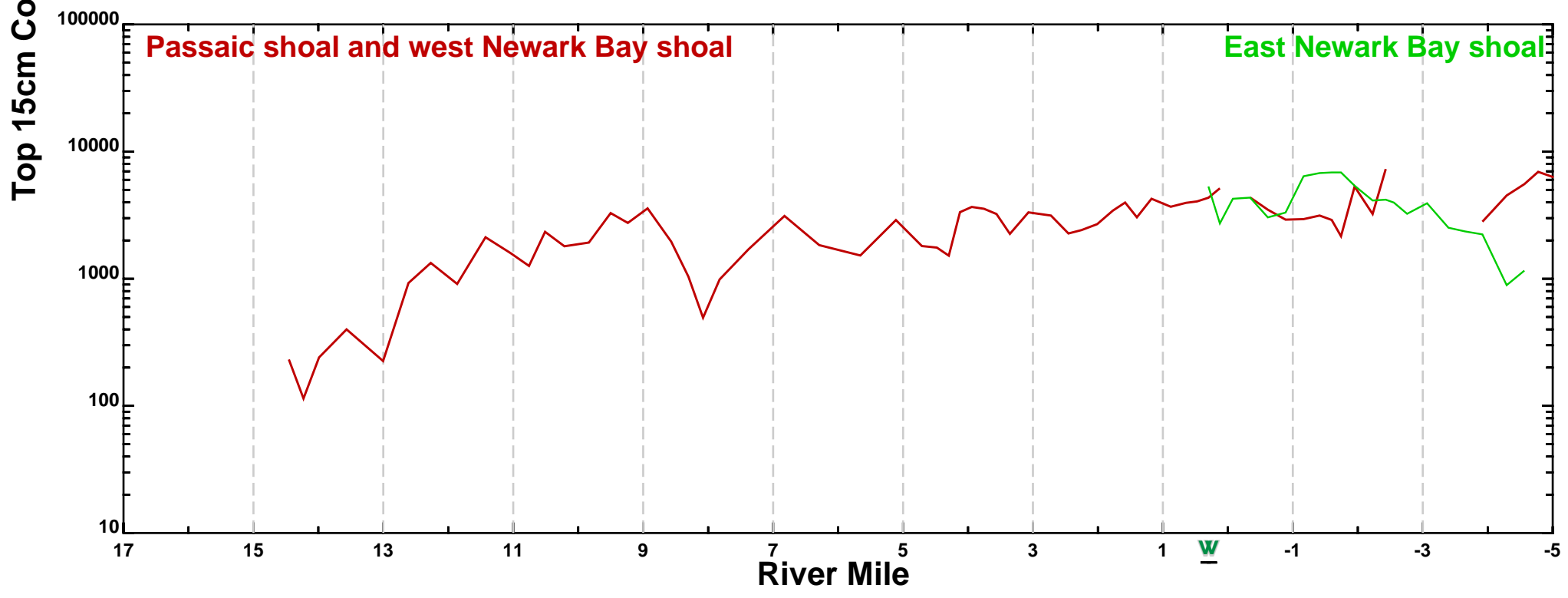
Year =2004.0

Mercury (ug/kg)

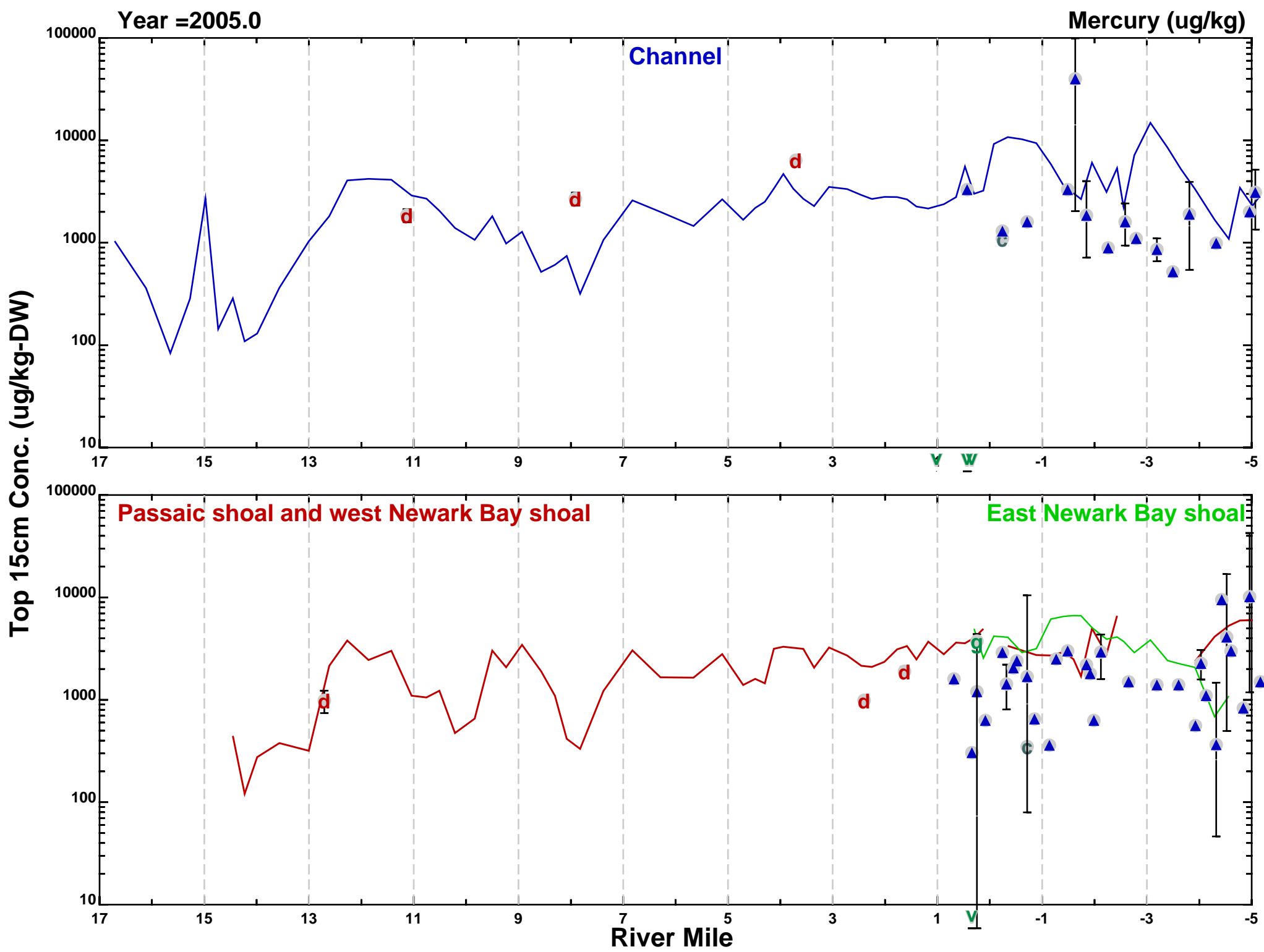


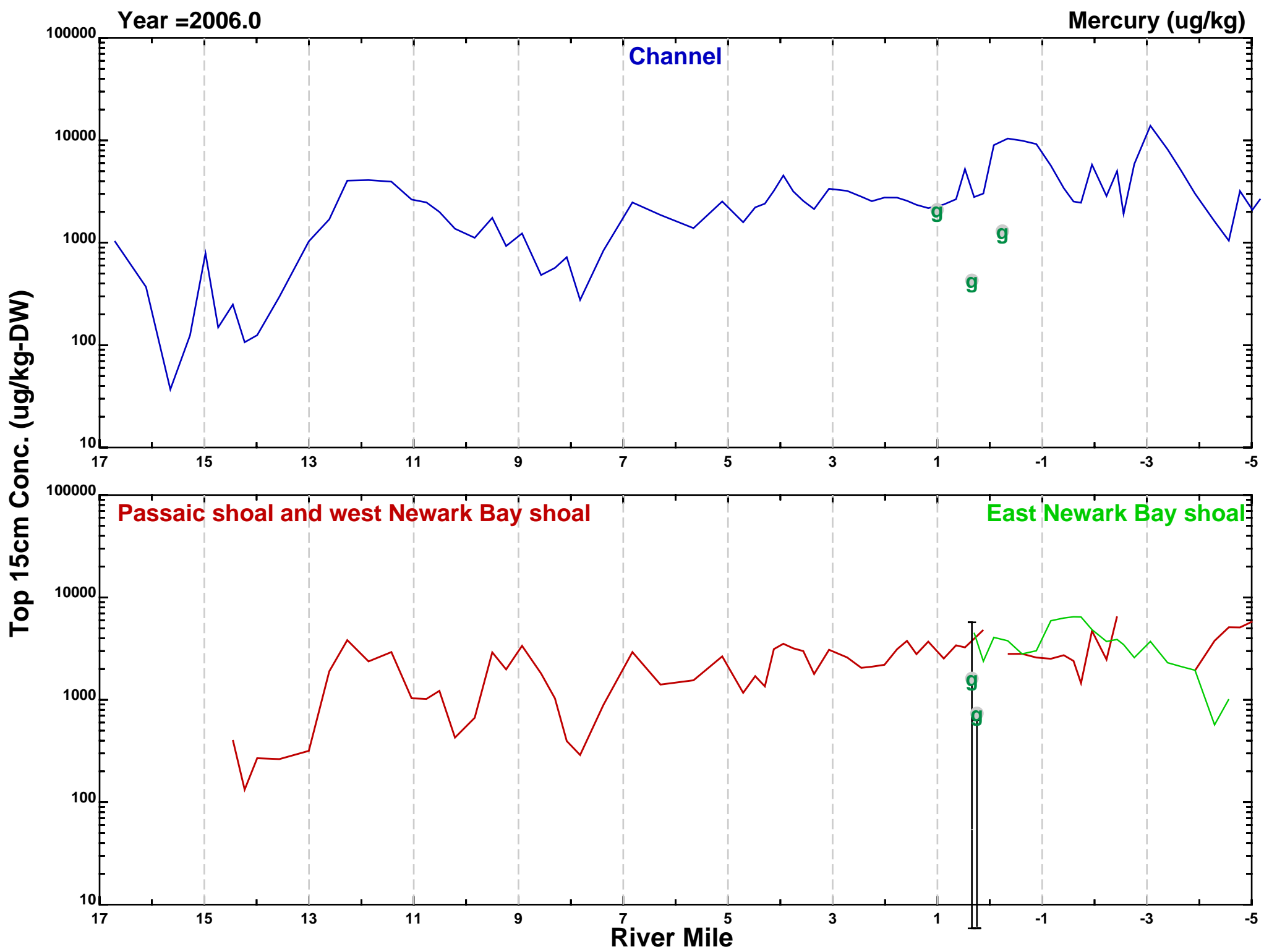
Passaic shoal and west Newark Bay shoal

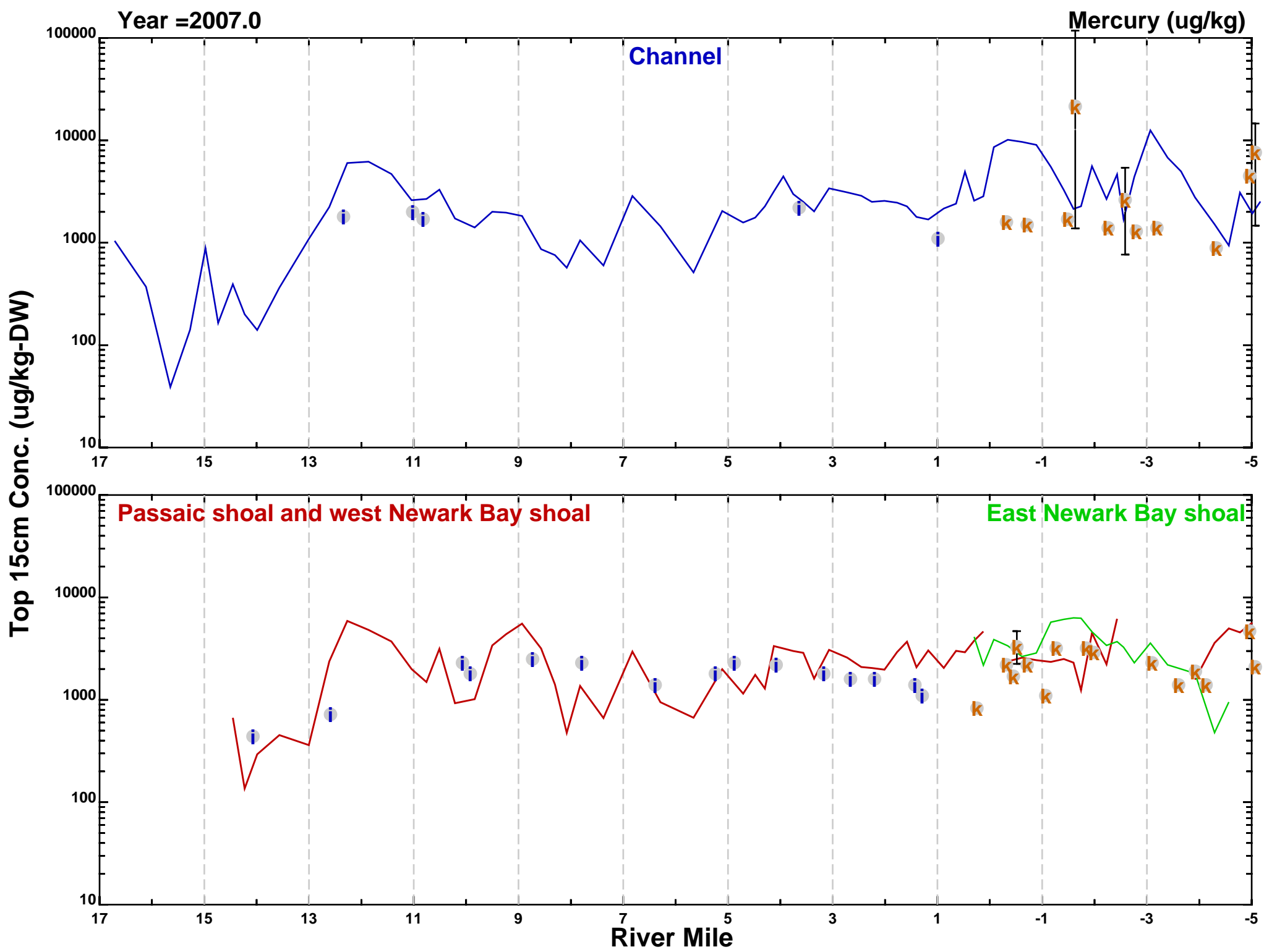
East Newark Bay shoal



River Mile

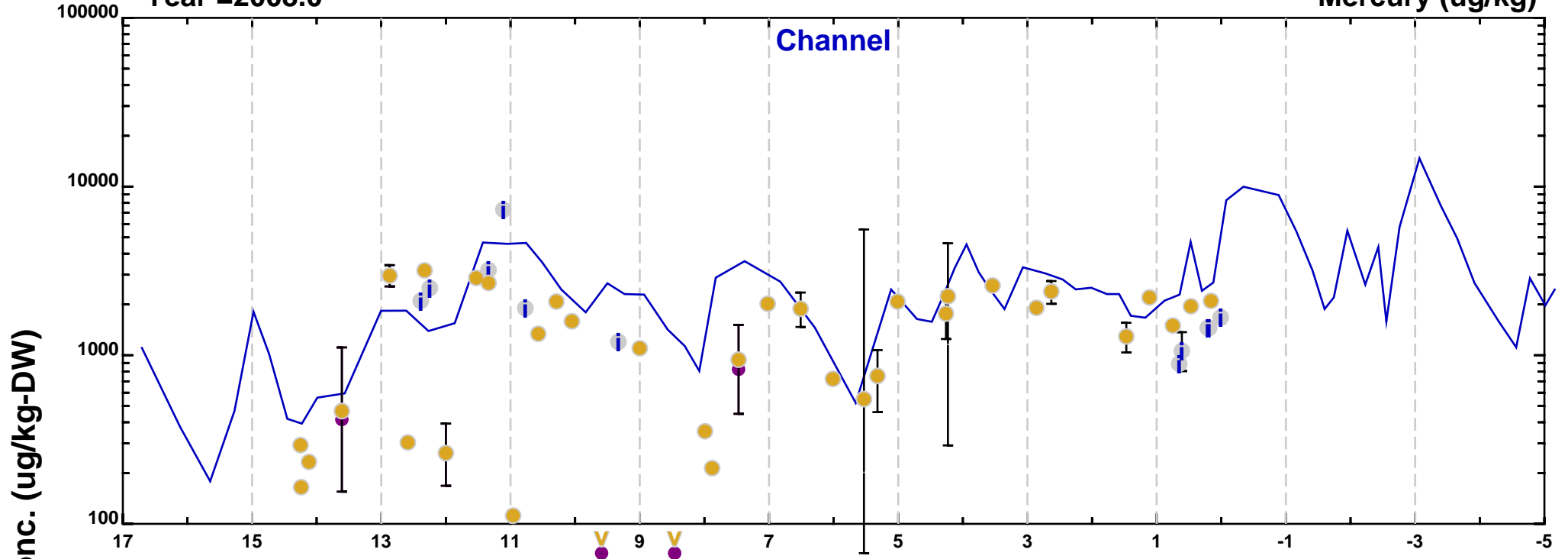






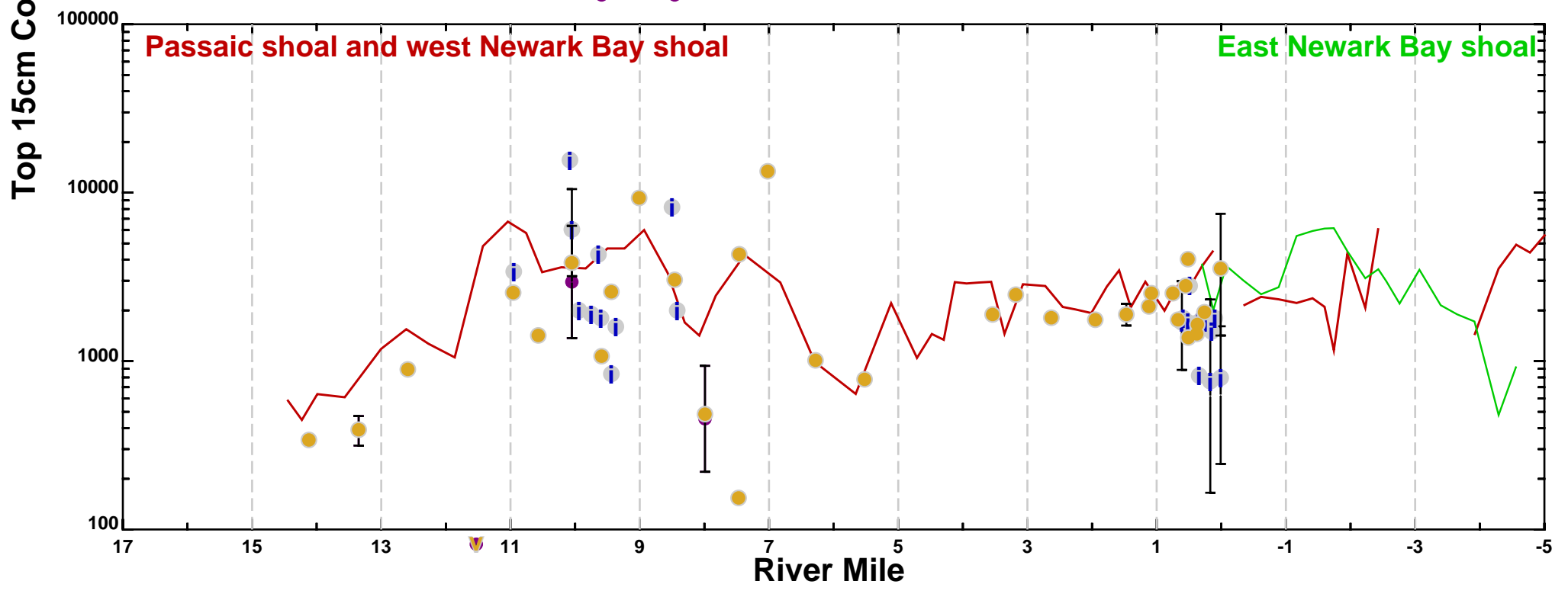
Year =2008.0

Mercury (ug/kg)



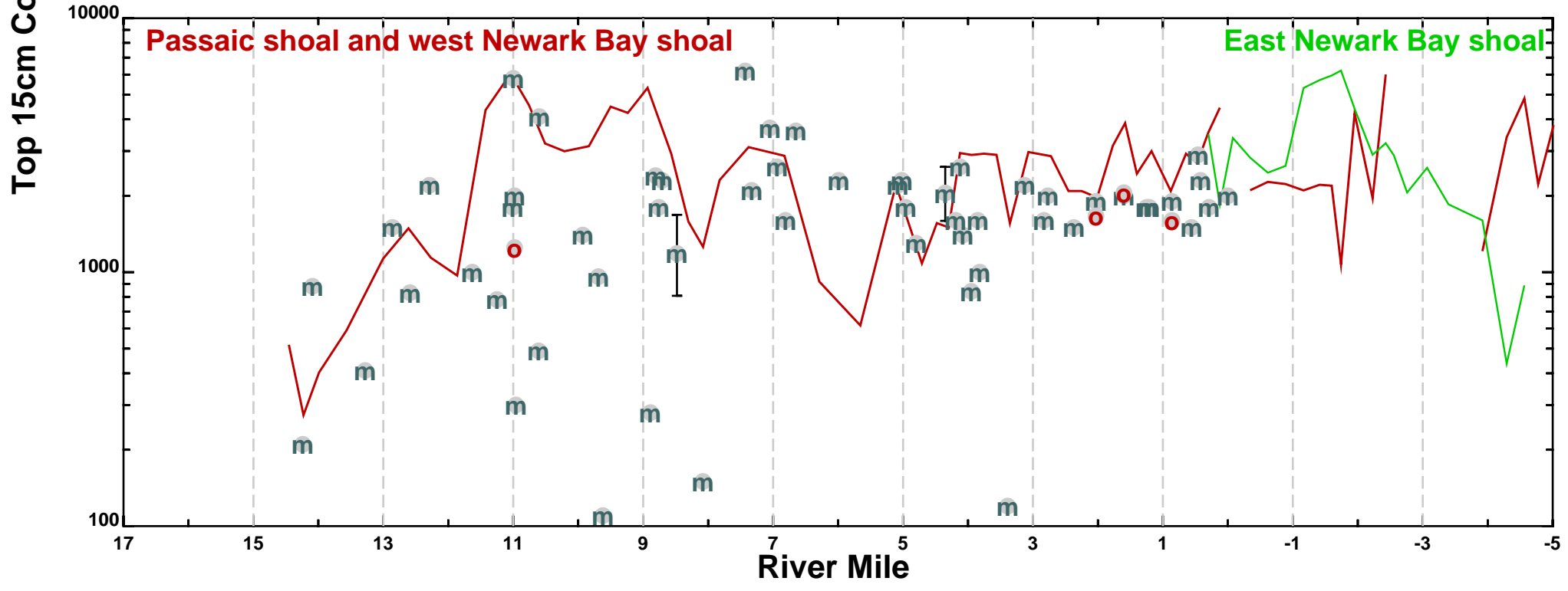
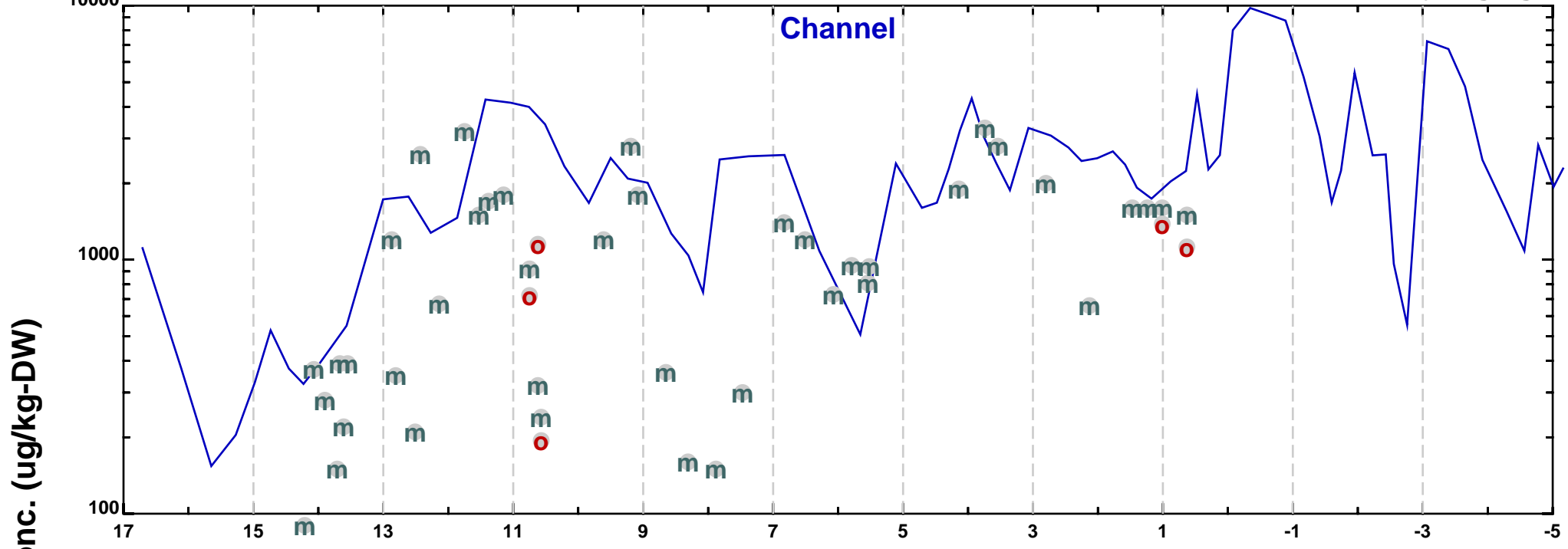
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal



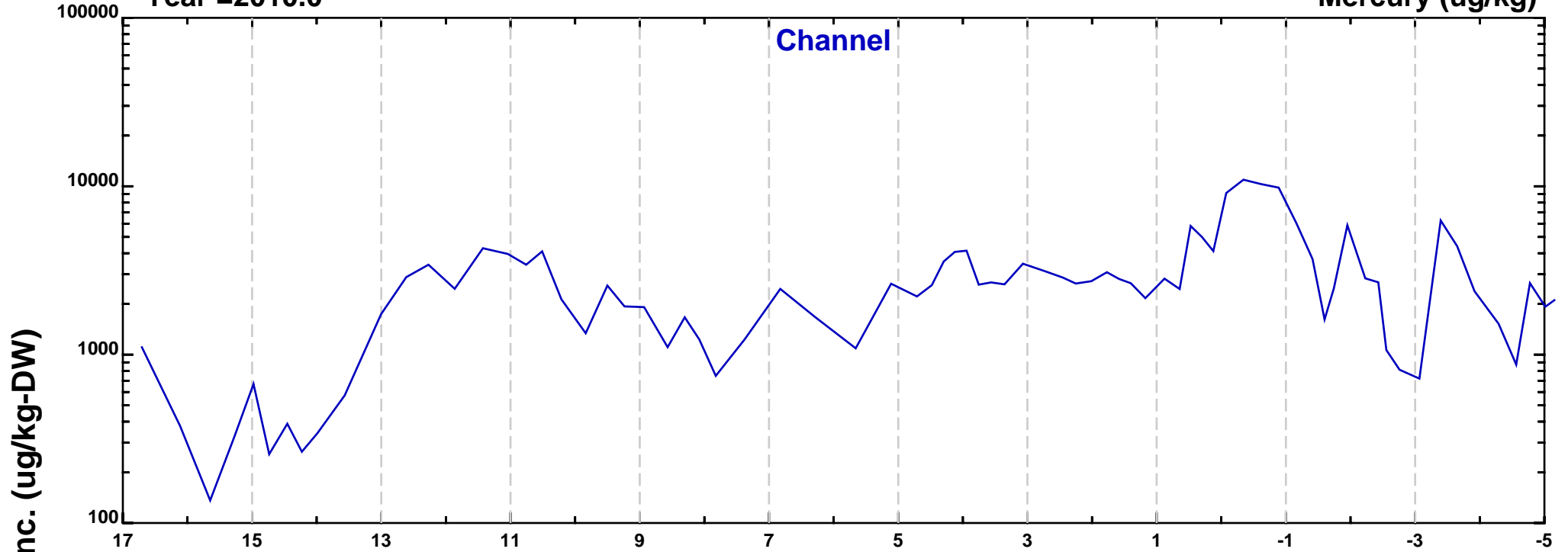
Year = 2009.0

Mercury (ug/kg)



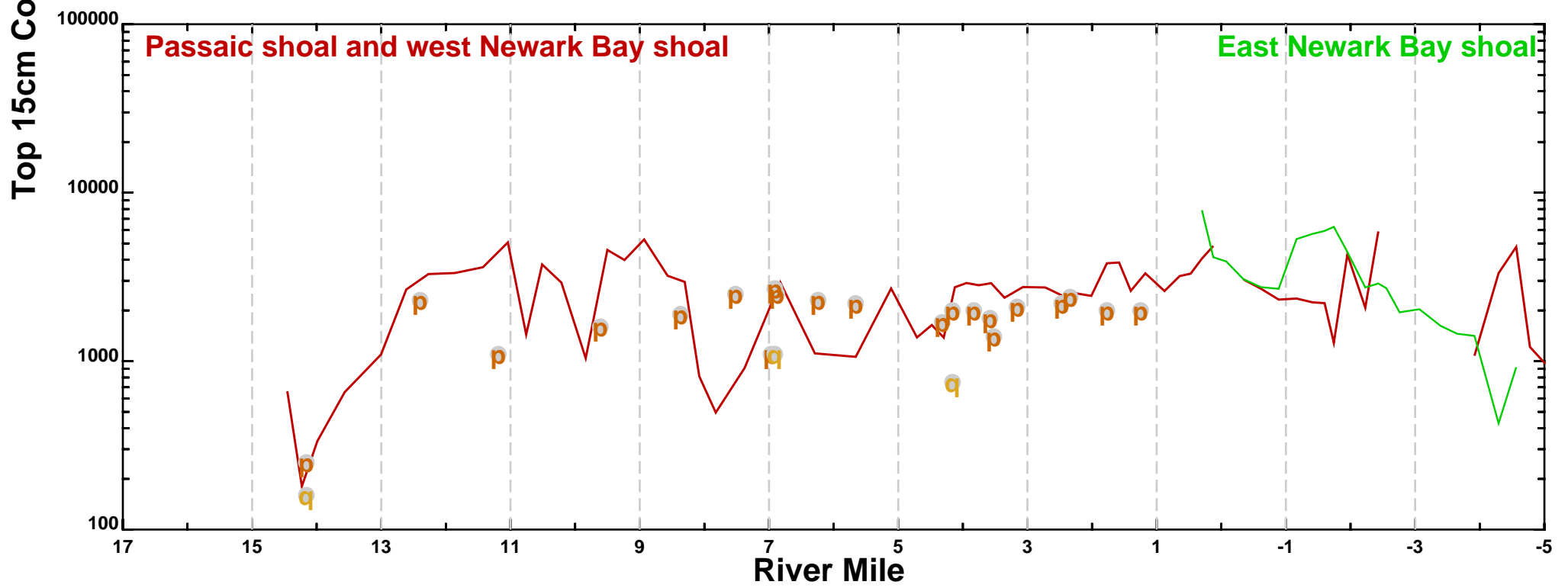
Year = 2010.0

Mercury (ug/kg)

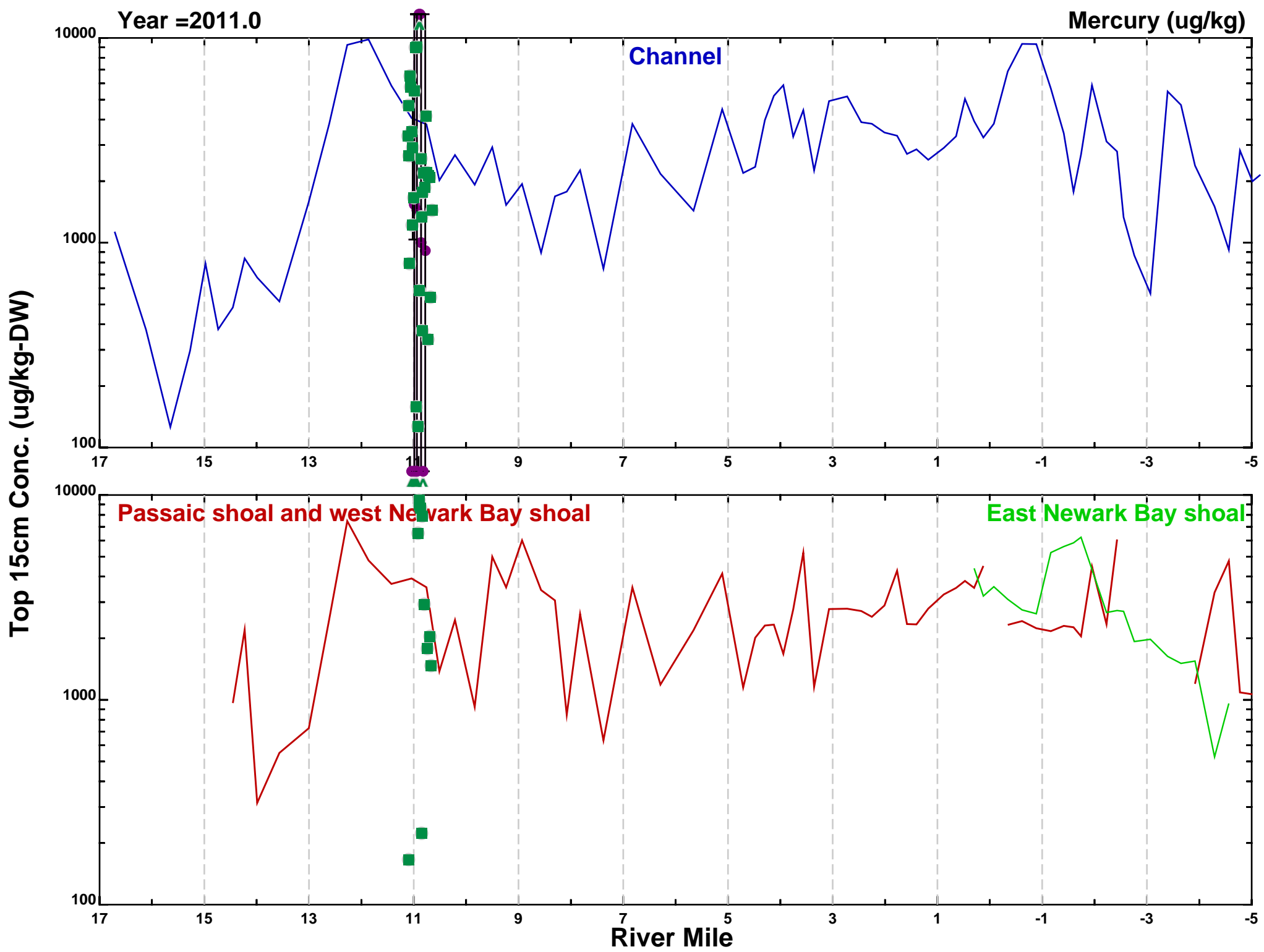


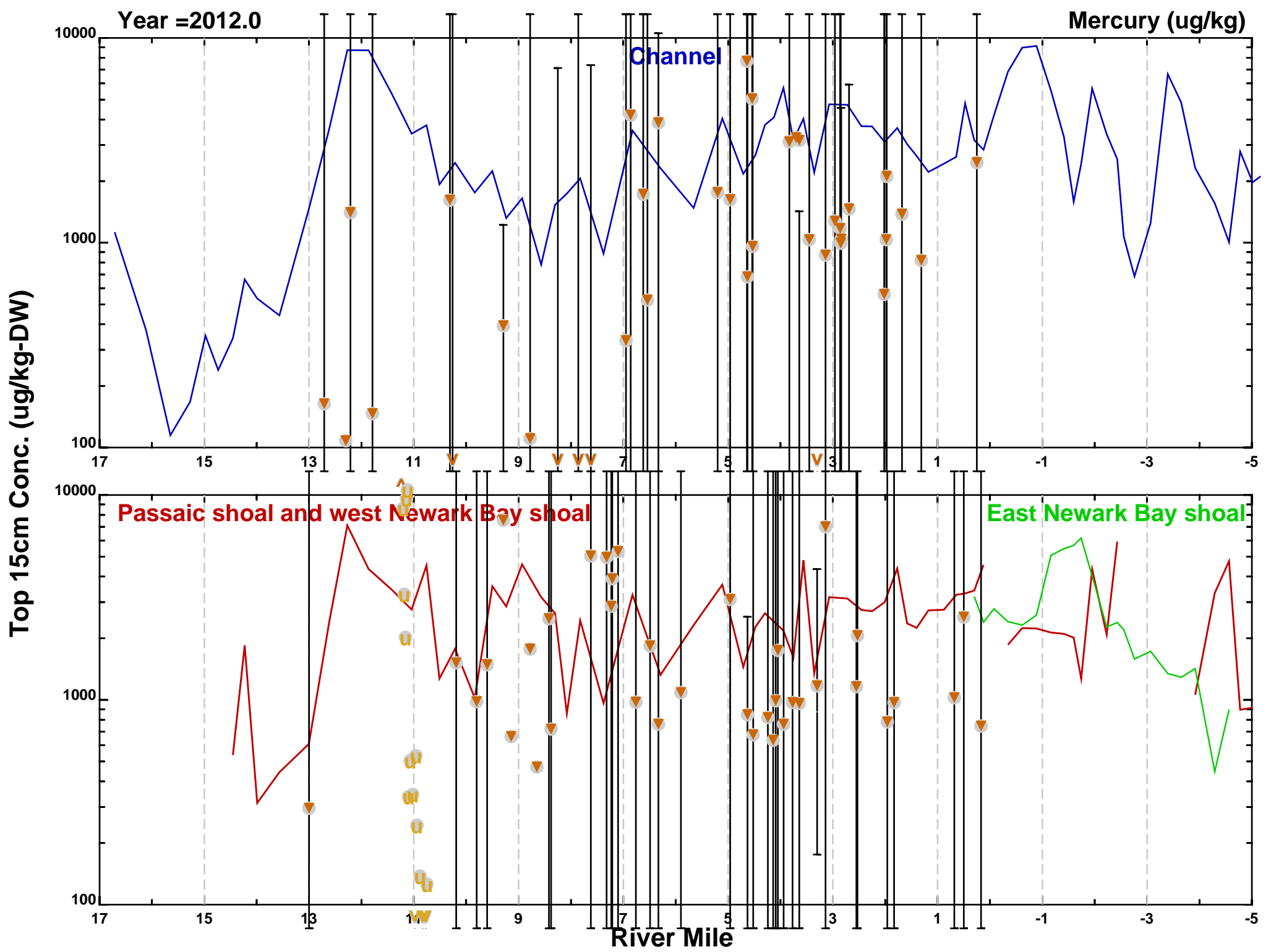
Passaic shoal and west Newark Bay shoal

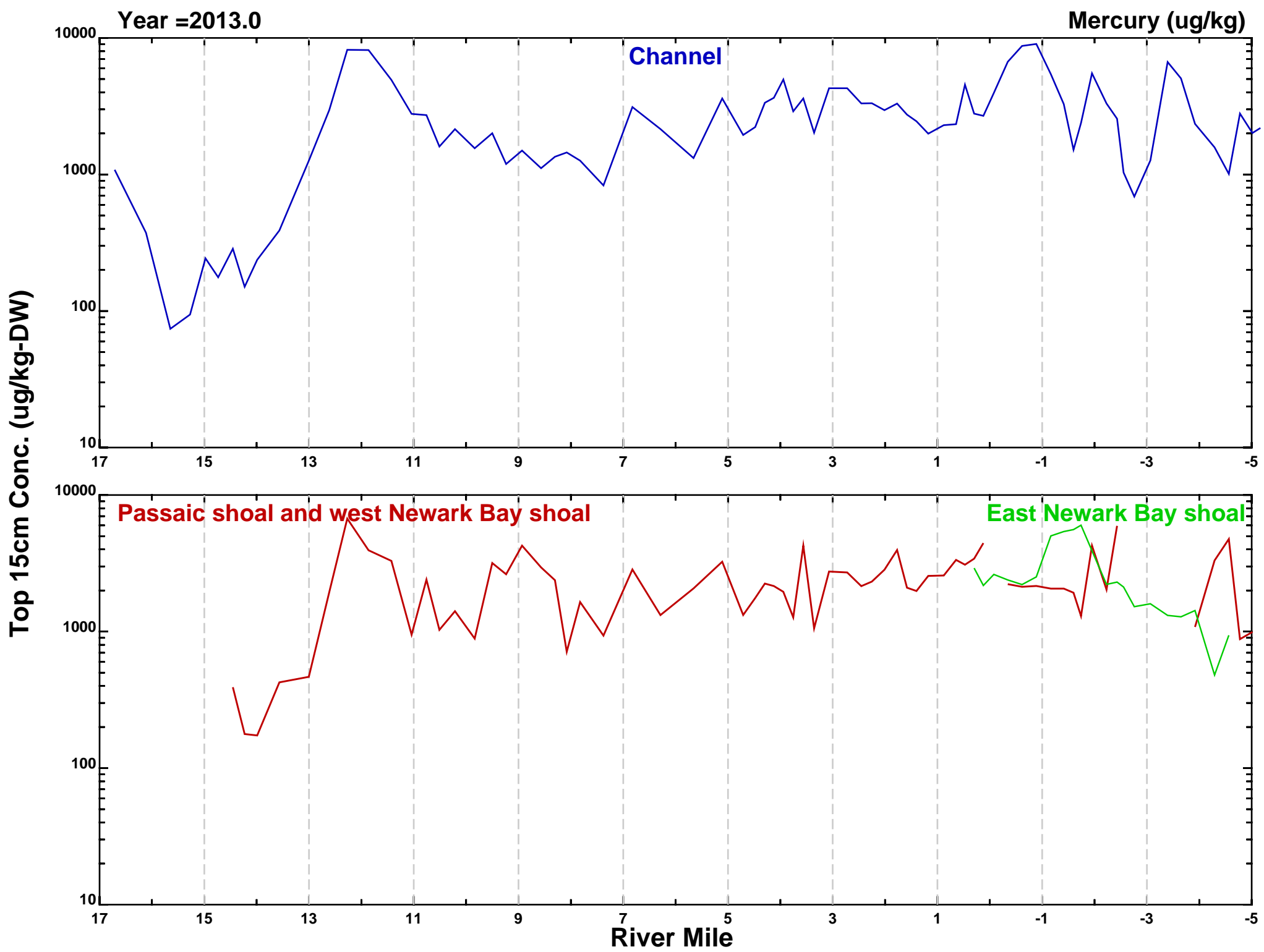
East Newark Bay shoal

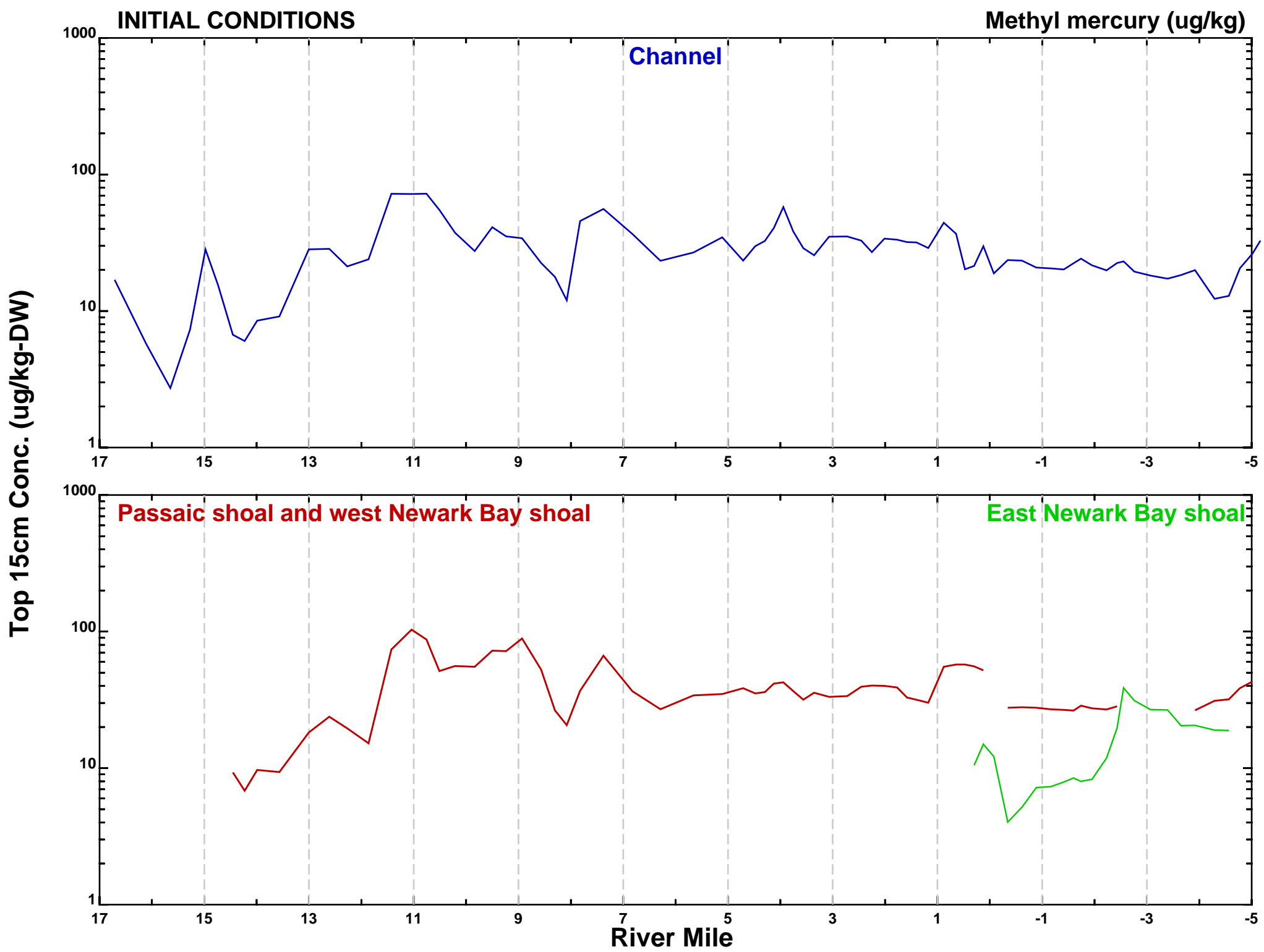


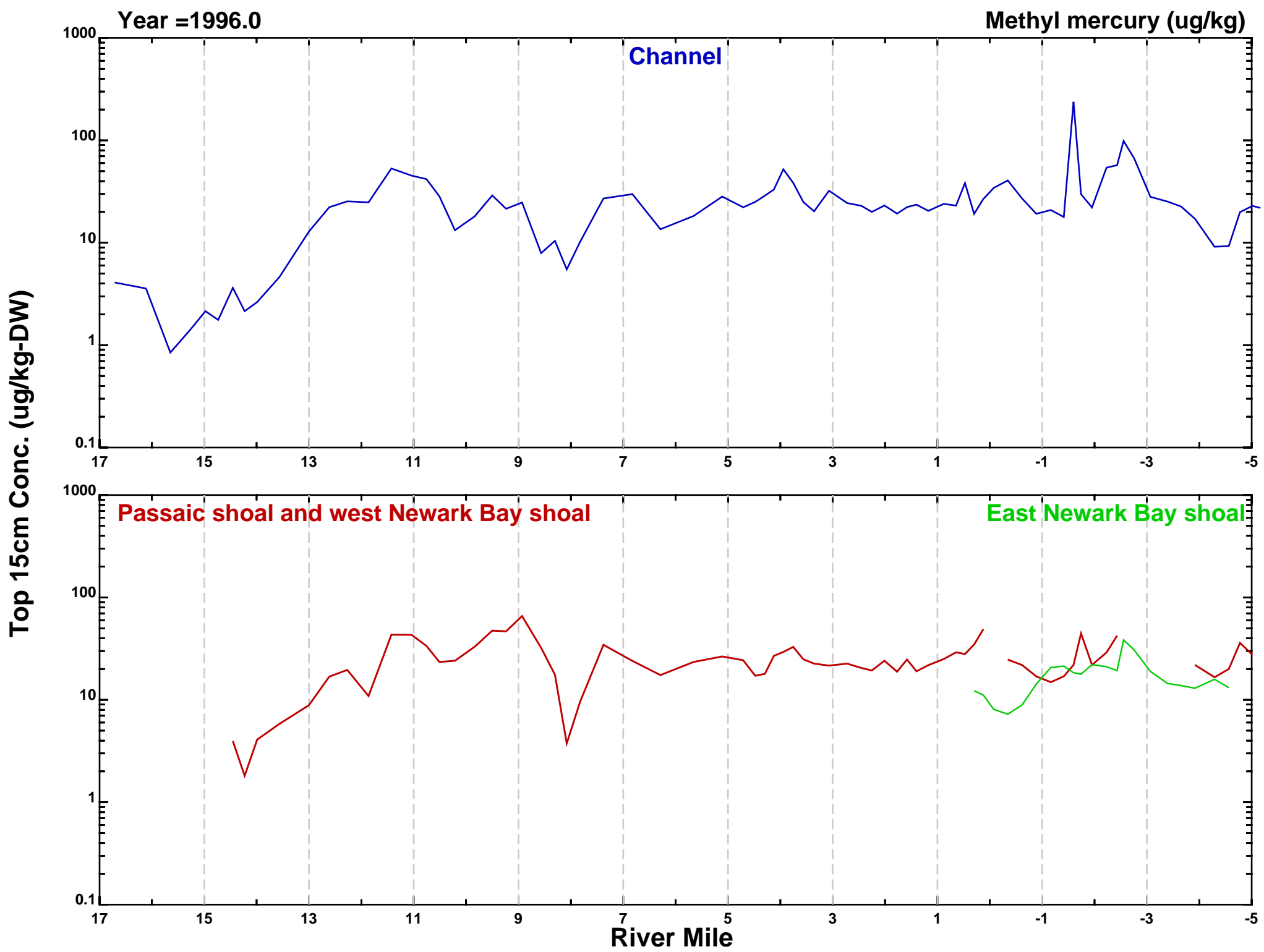












Year = 1997.0

Methyl mercury (ug/kg)

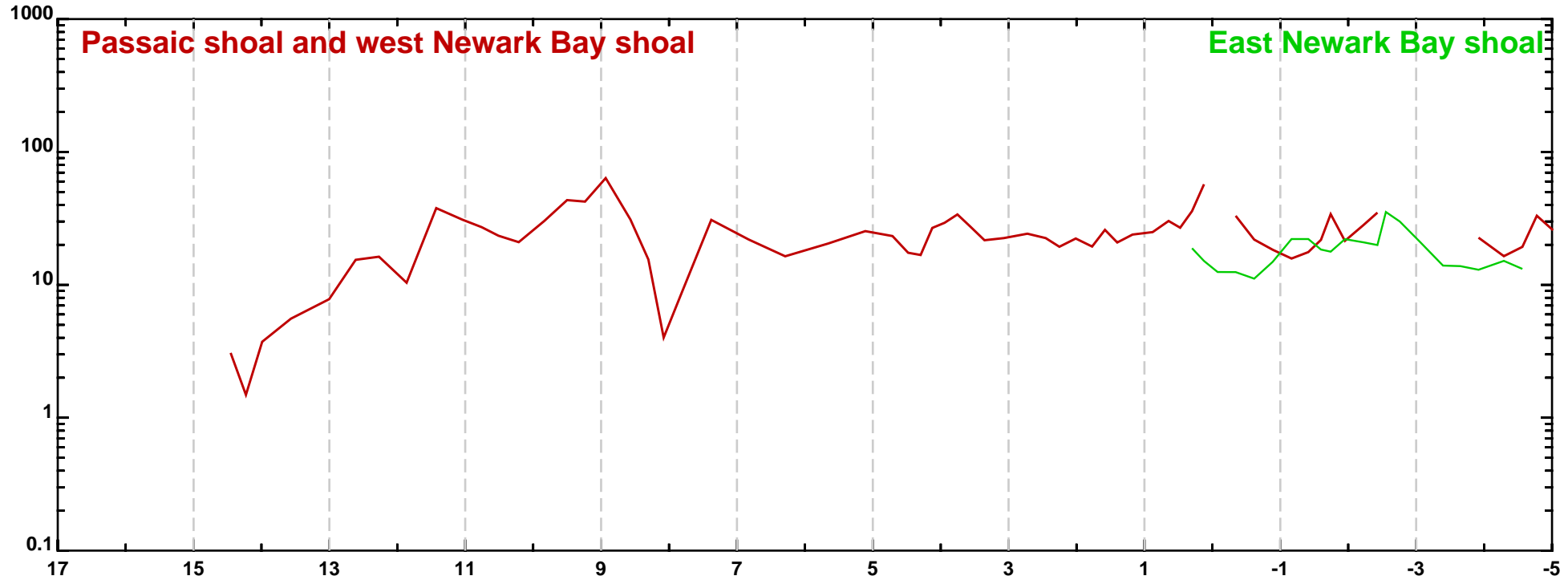
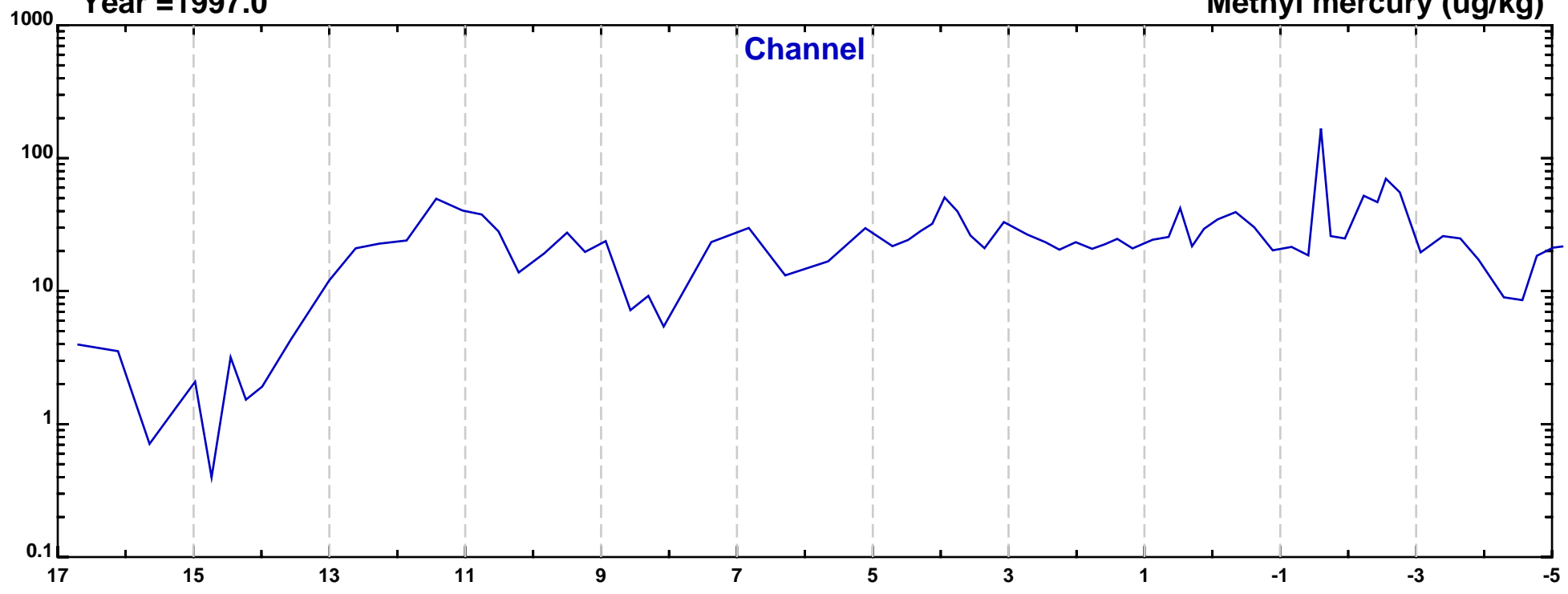
Top 15cm Conc. (ug/kg-DW)

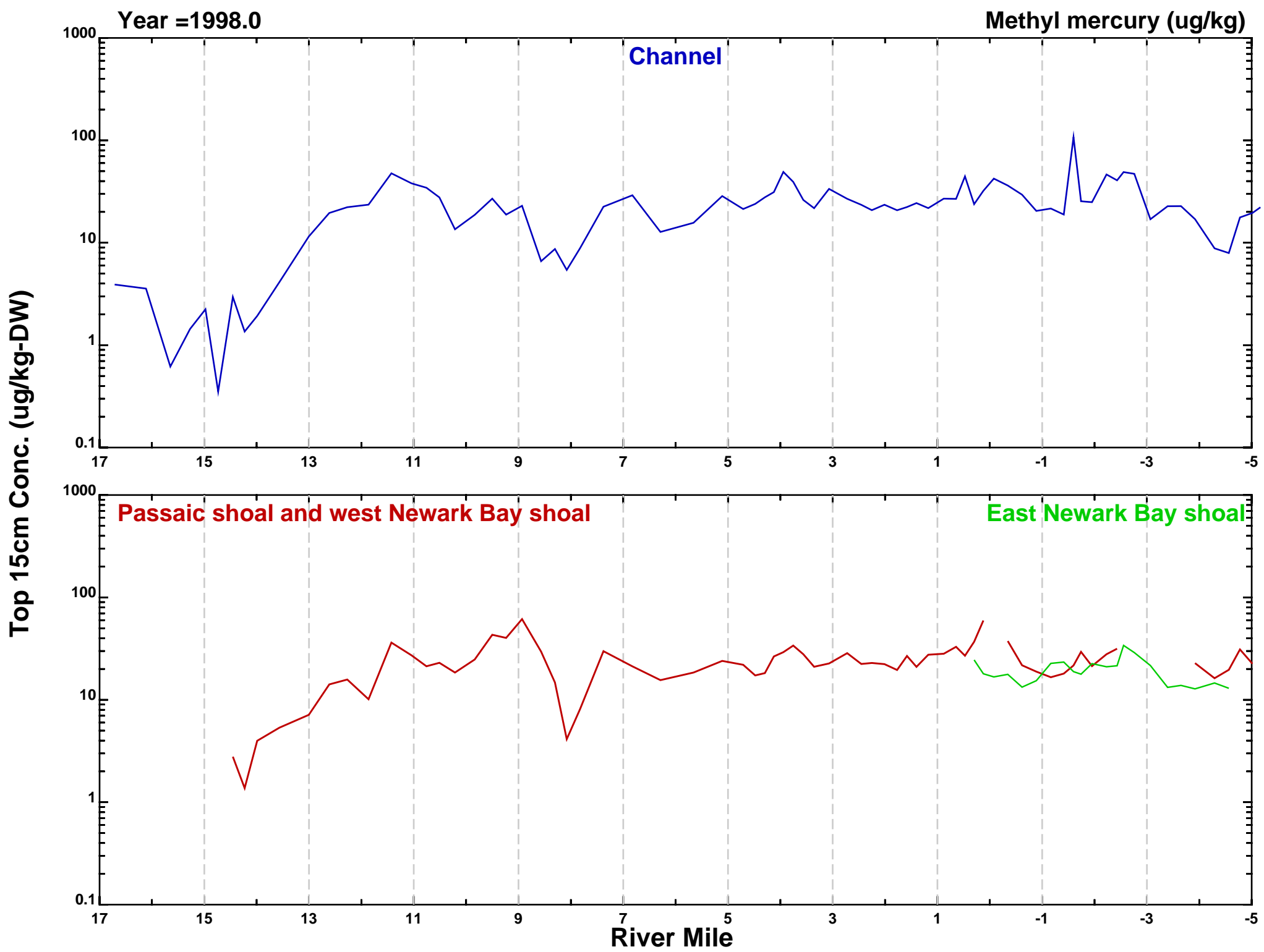
Channel

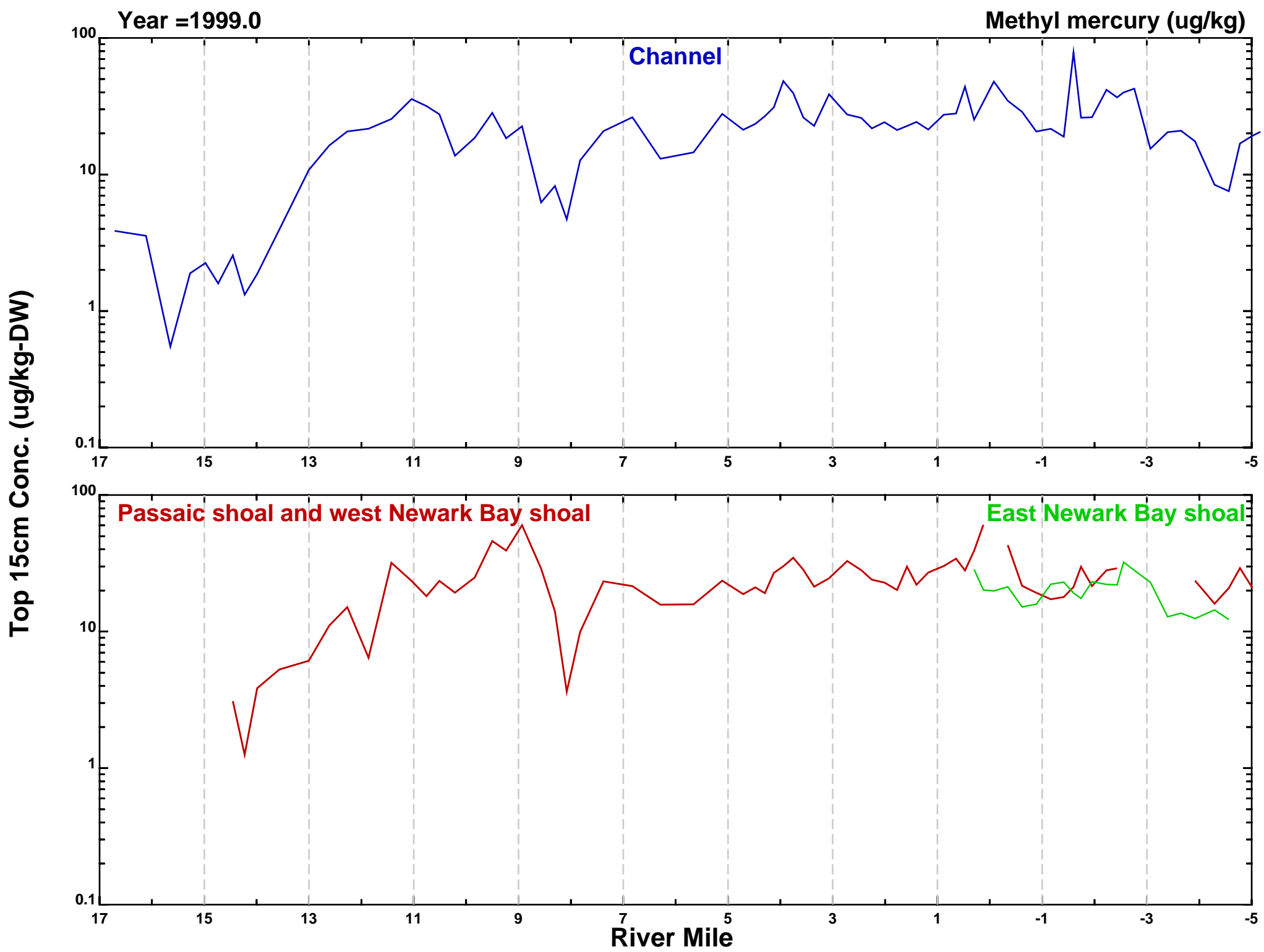
Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

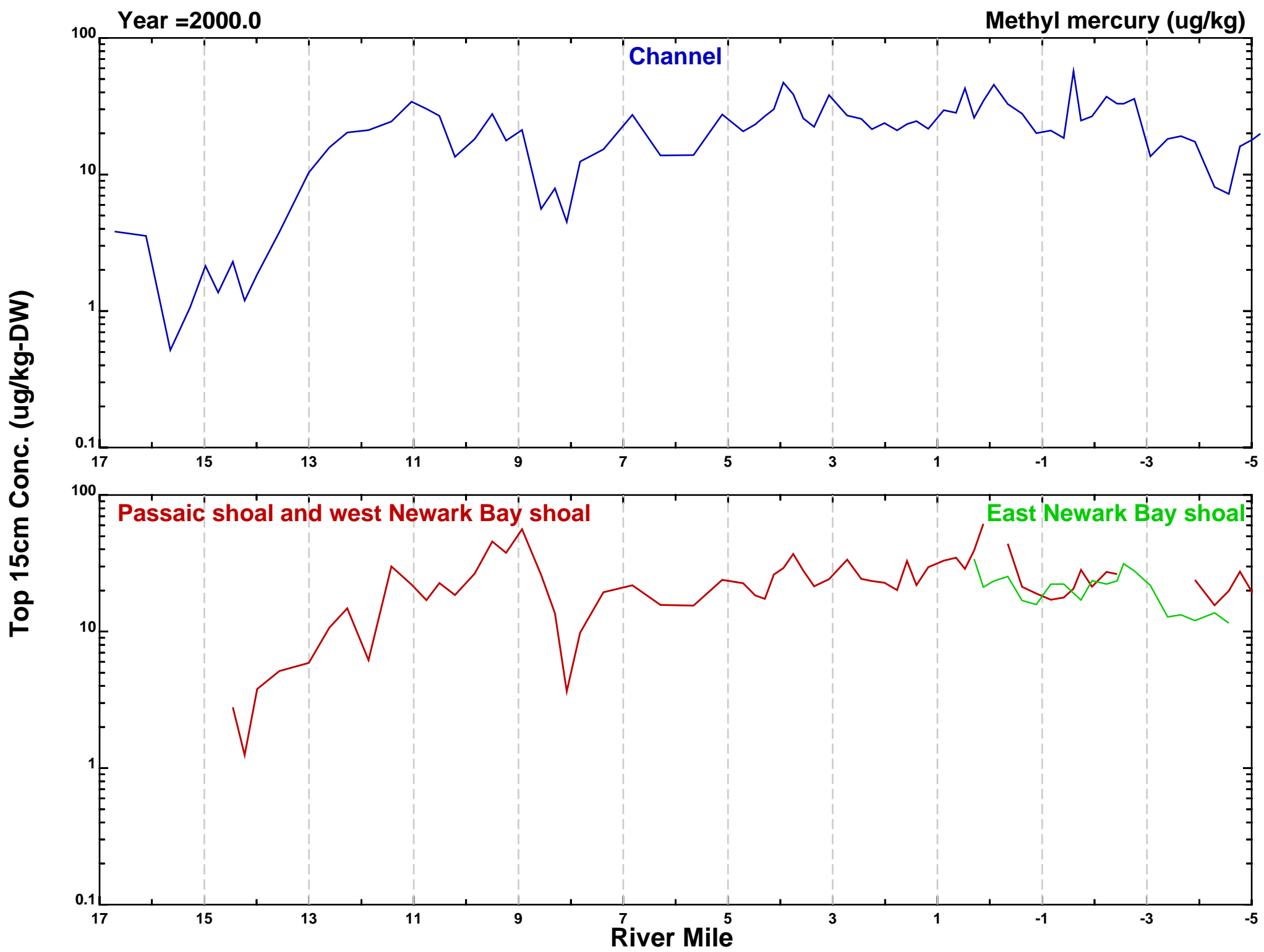
River Mile

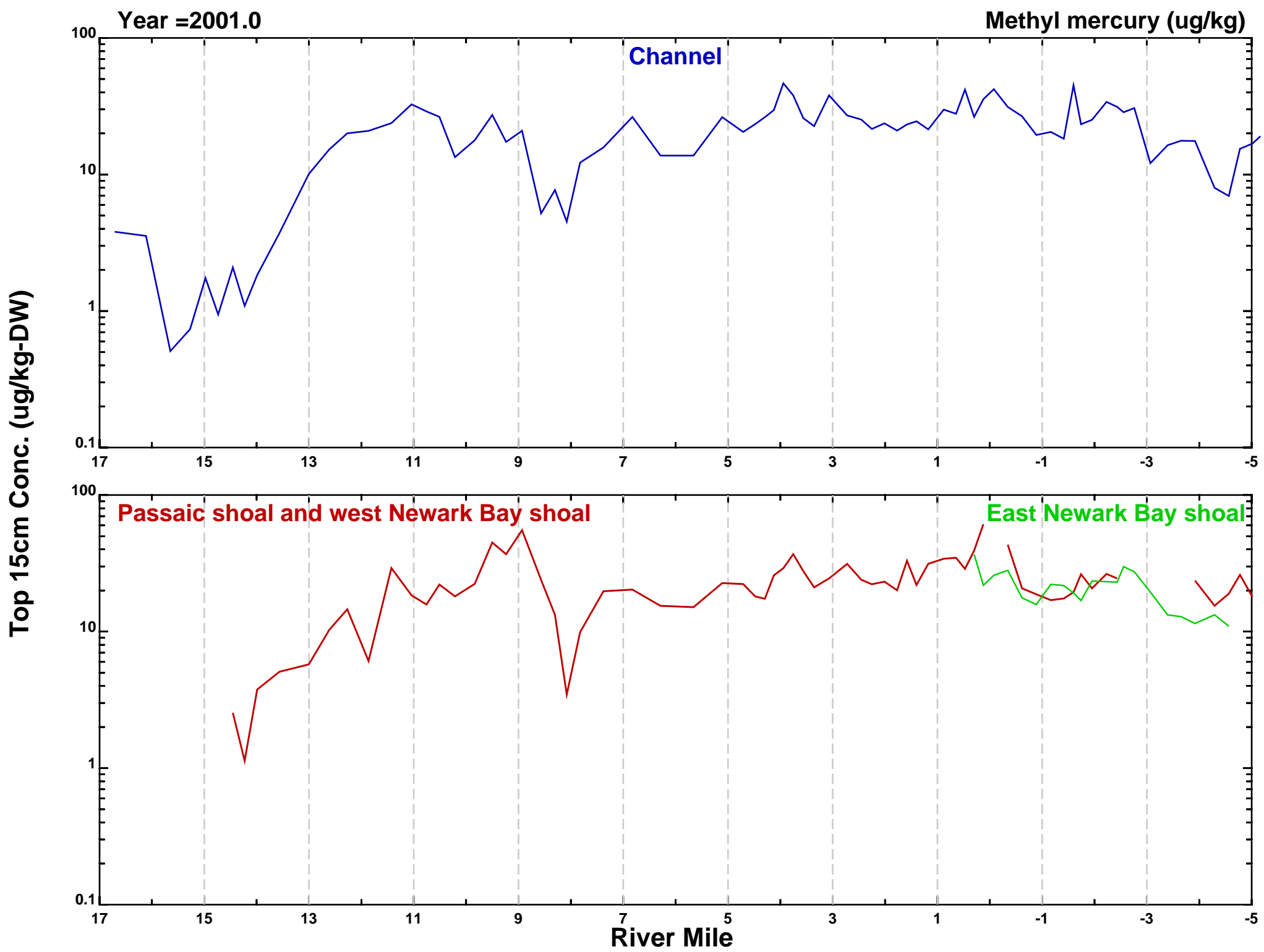


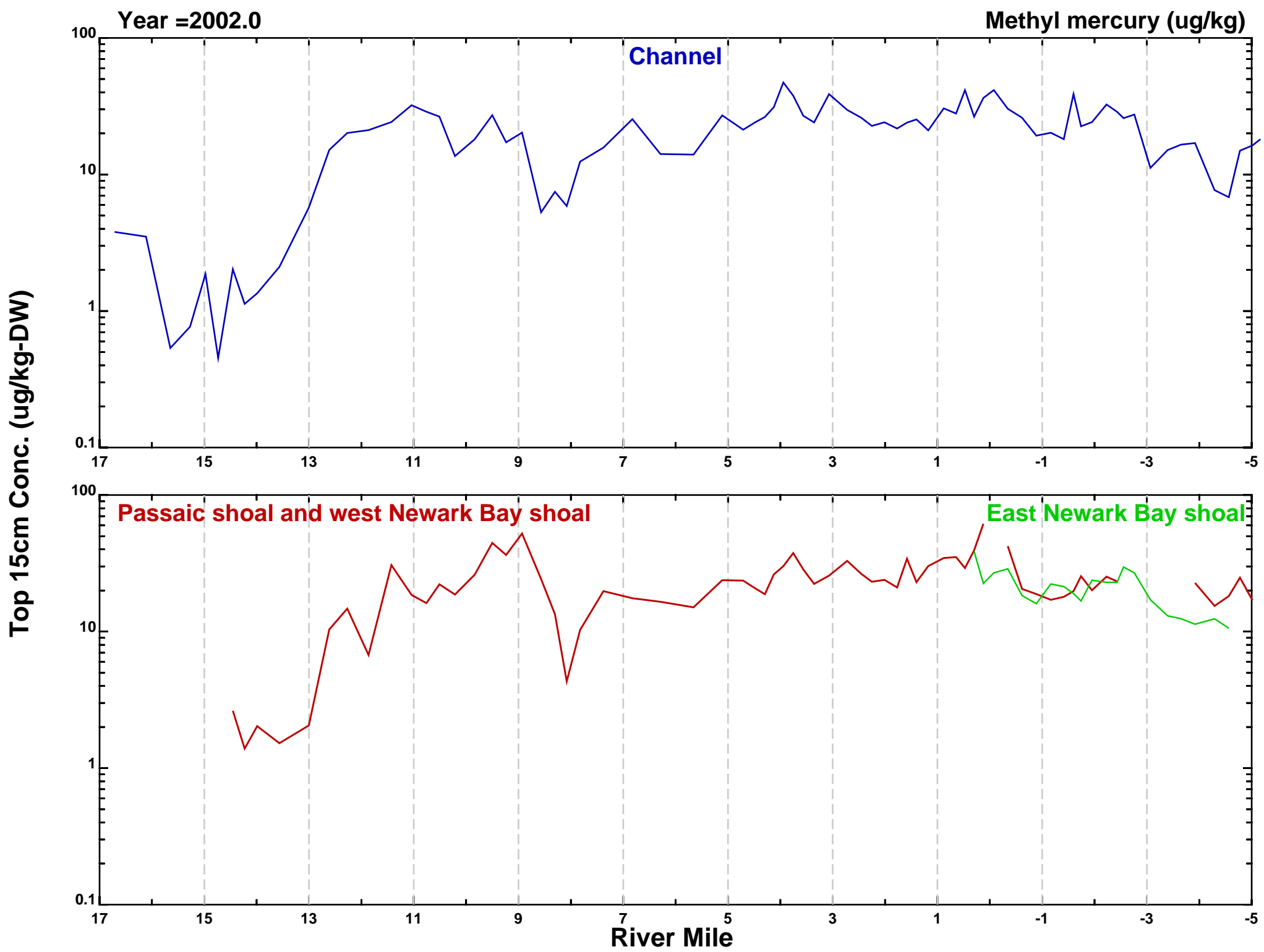


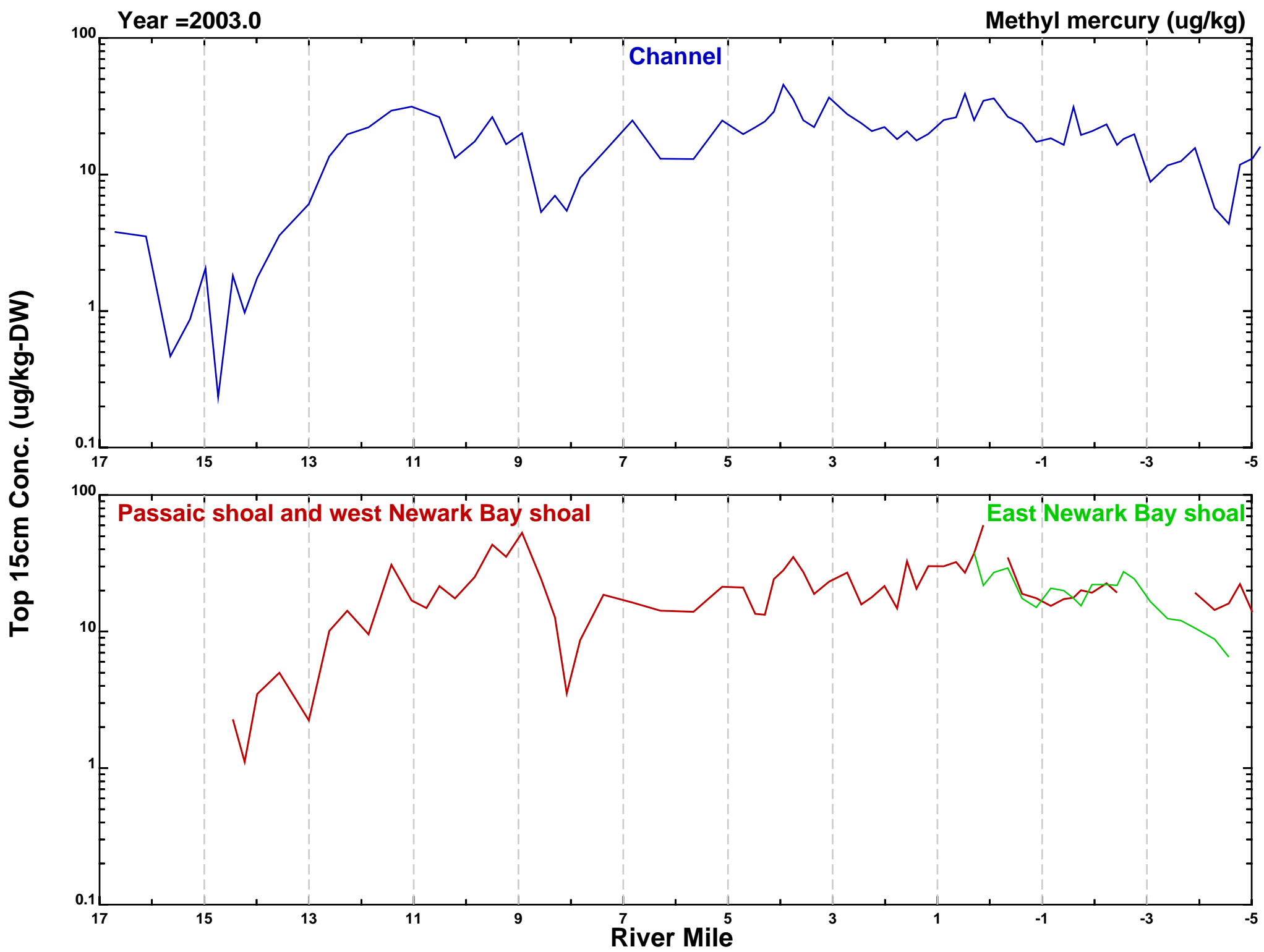


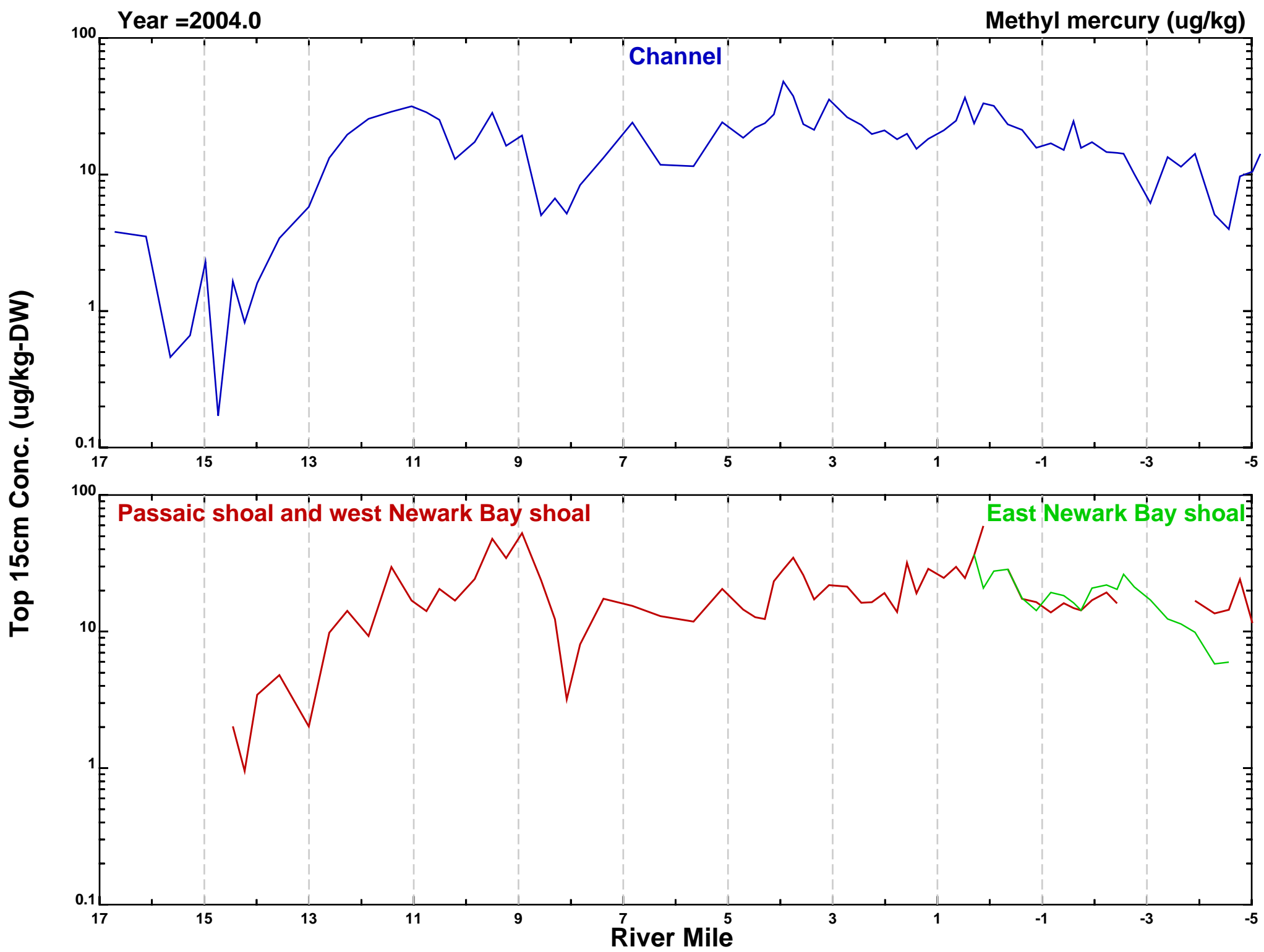


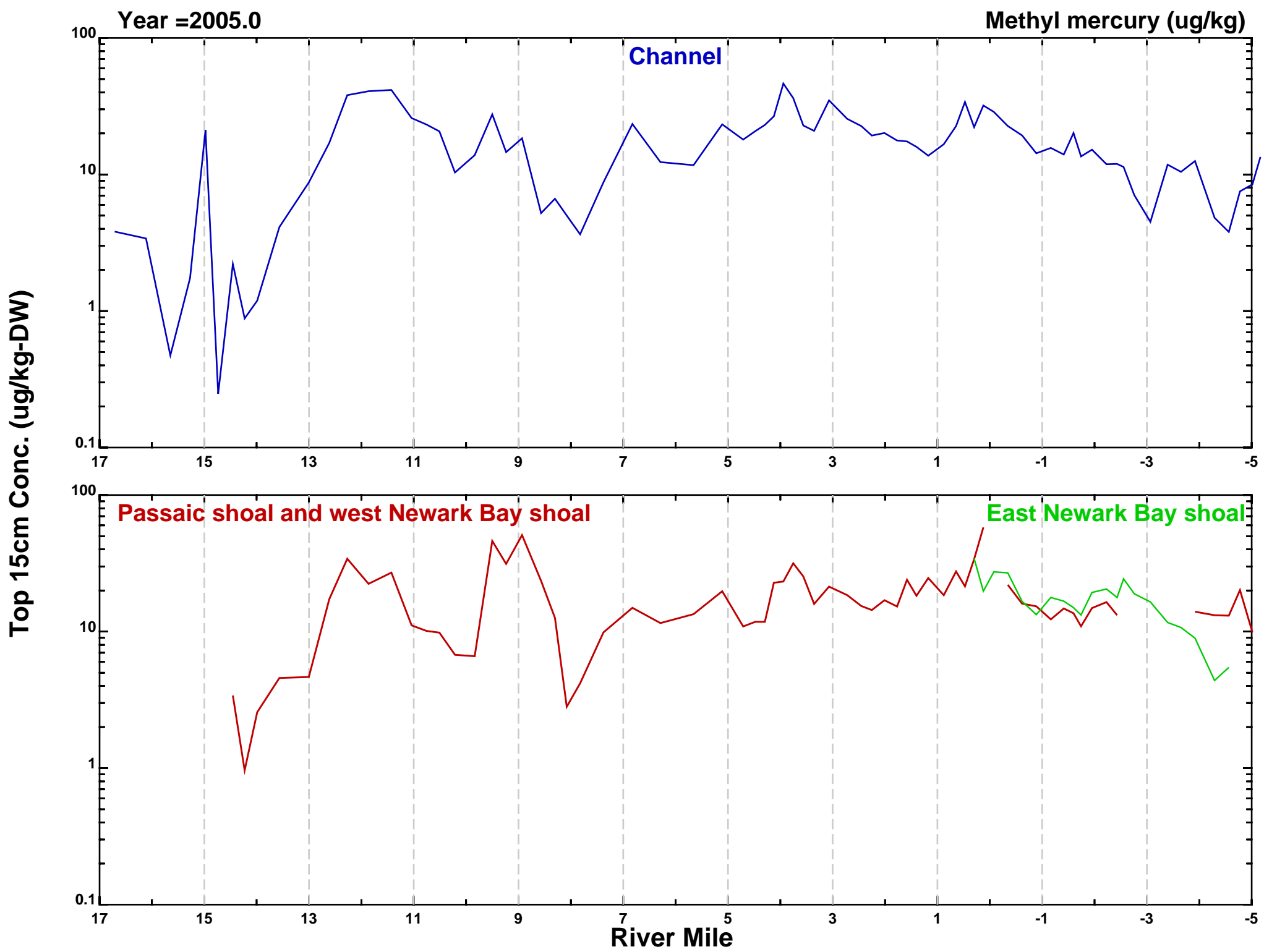


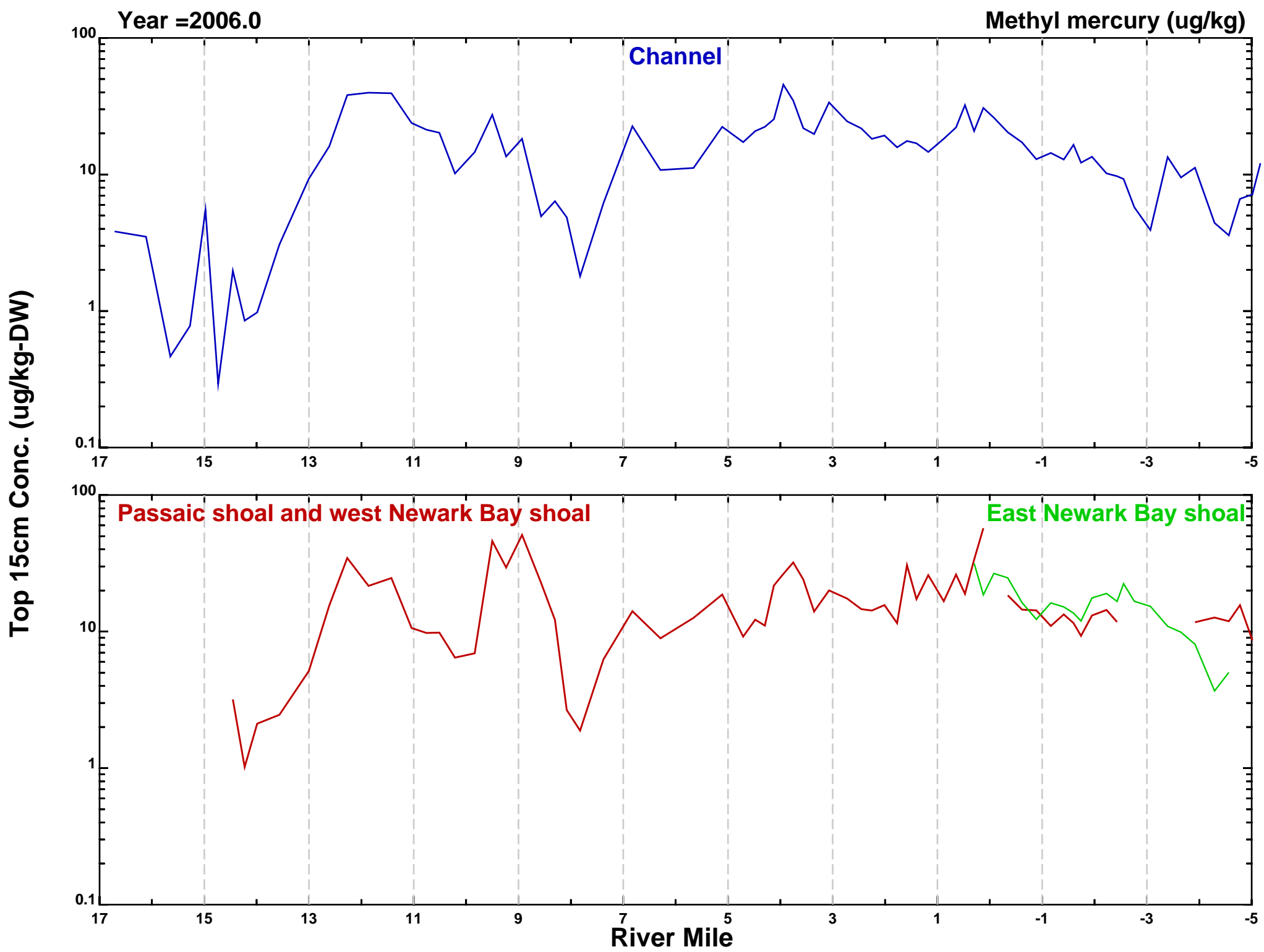












Year =2007.0

Methyl mercury (ug/kg)

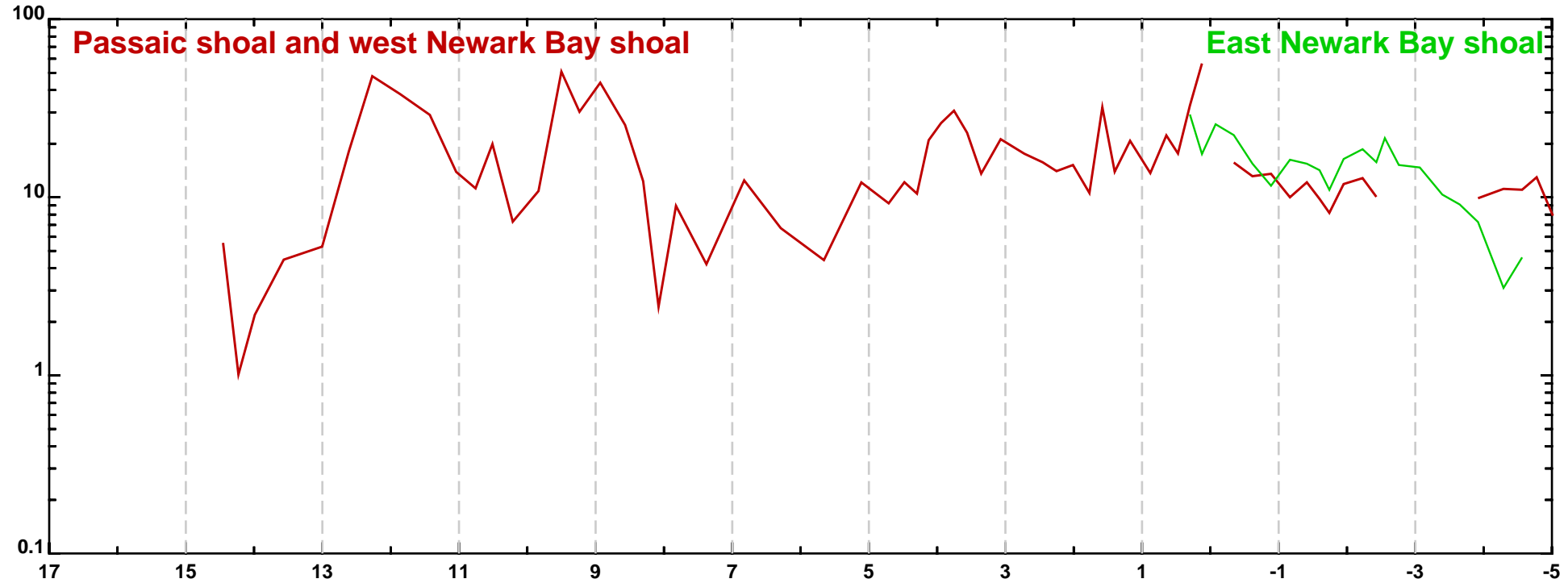
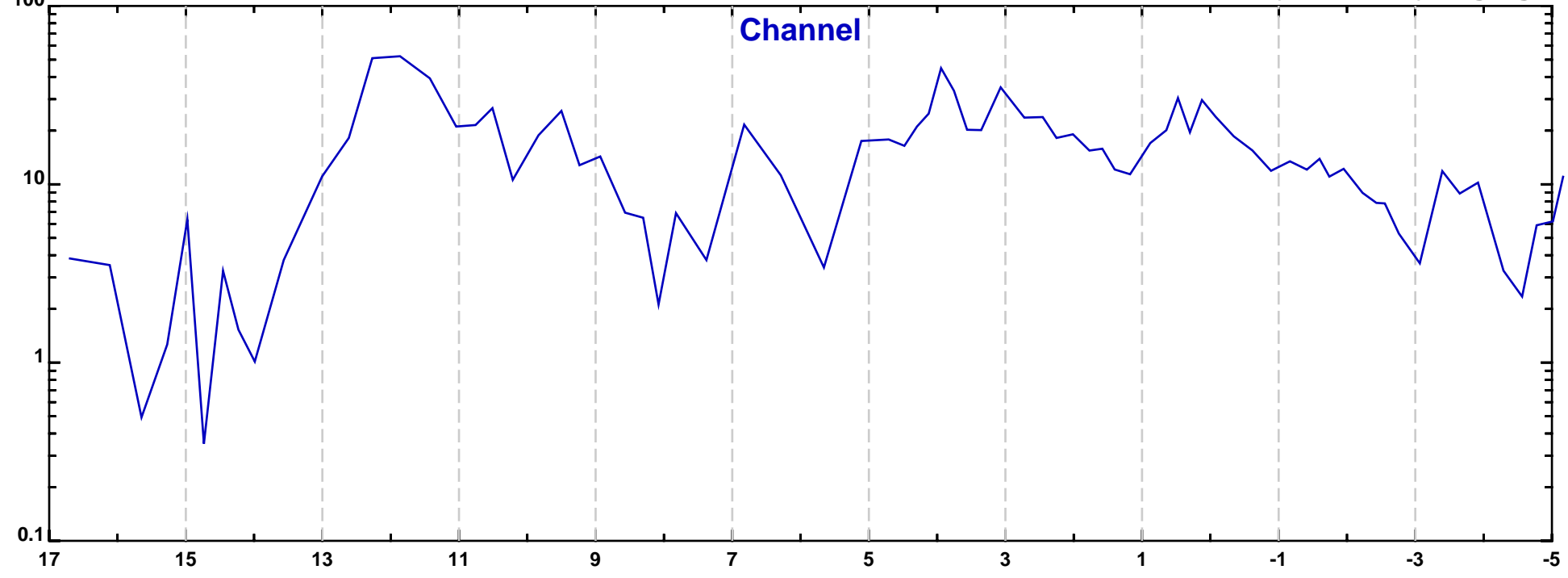
Top 15cm Conc. (ug/kg-DW)

Channel

Passaic shoal and west Newark Bay shoal

East Newark Bay shoal

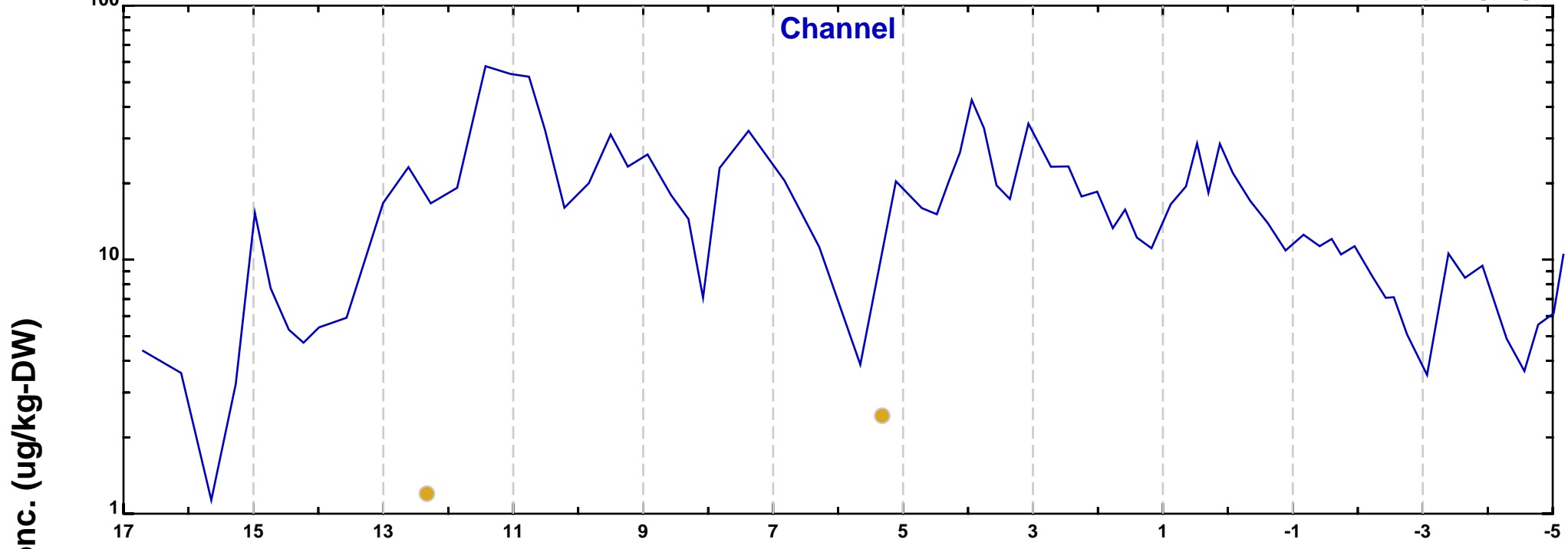
River Mile





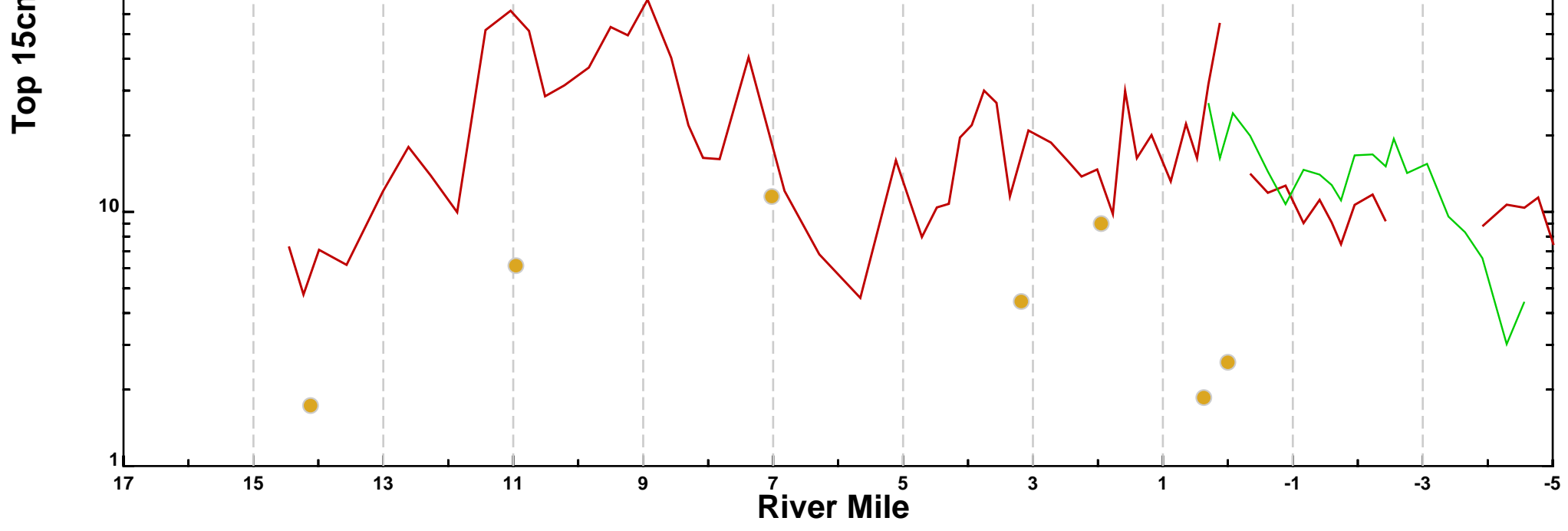
Year =2008.0

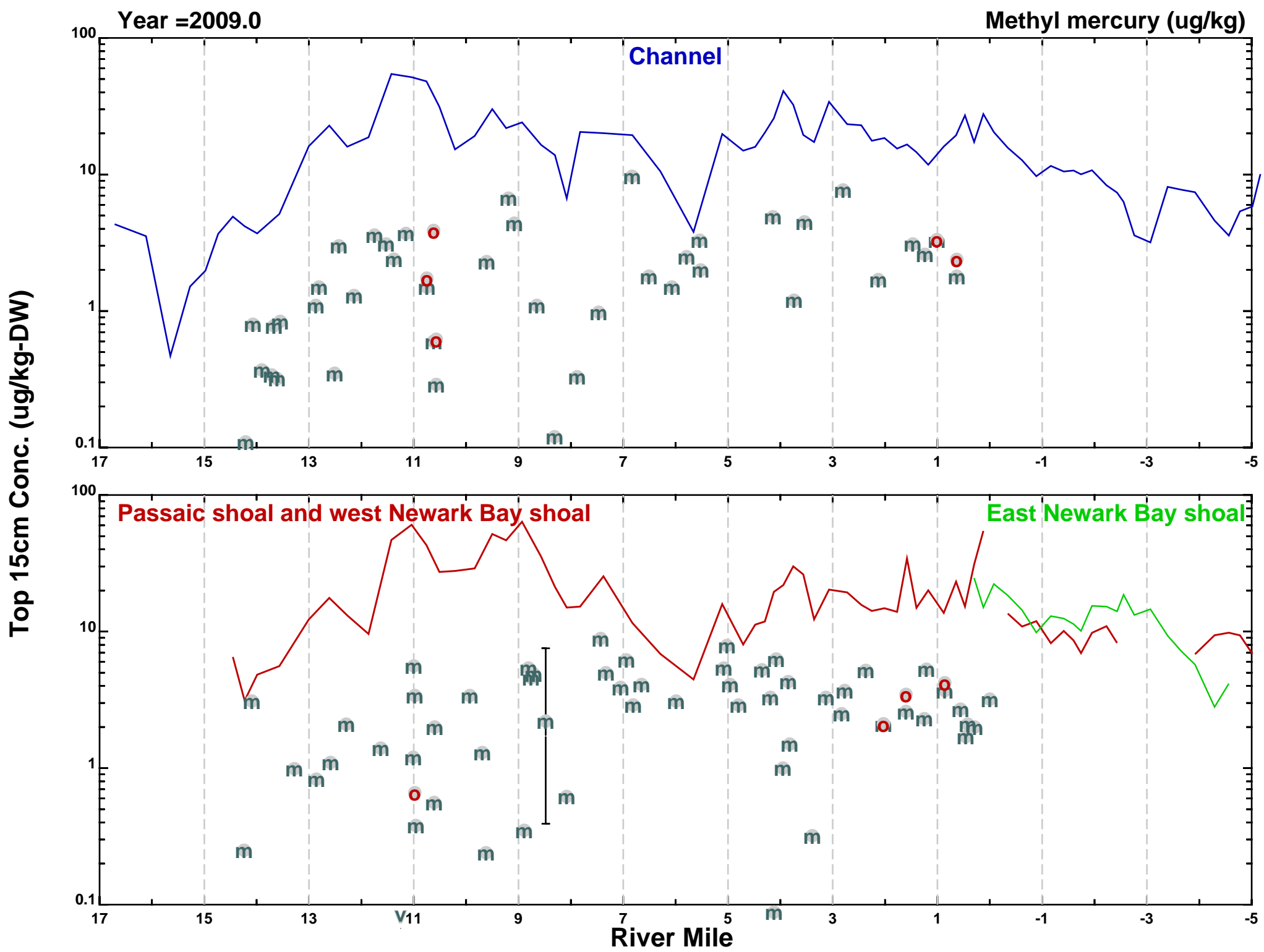
Methyl mercury (ug/kg)



Passaic shoal and west Newark Bay shoal

East Newark Bay shoal





Year =2010.0

Methyl mercury (ug/kg)

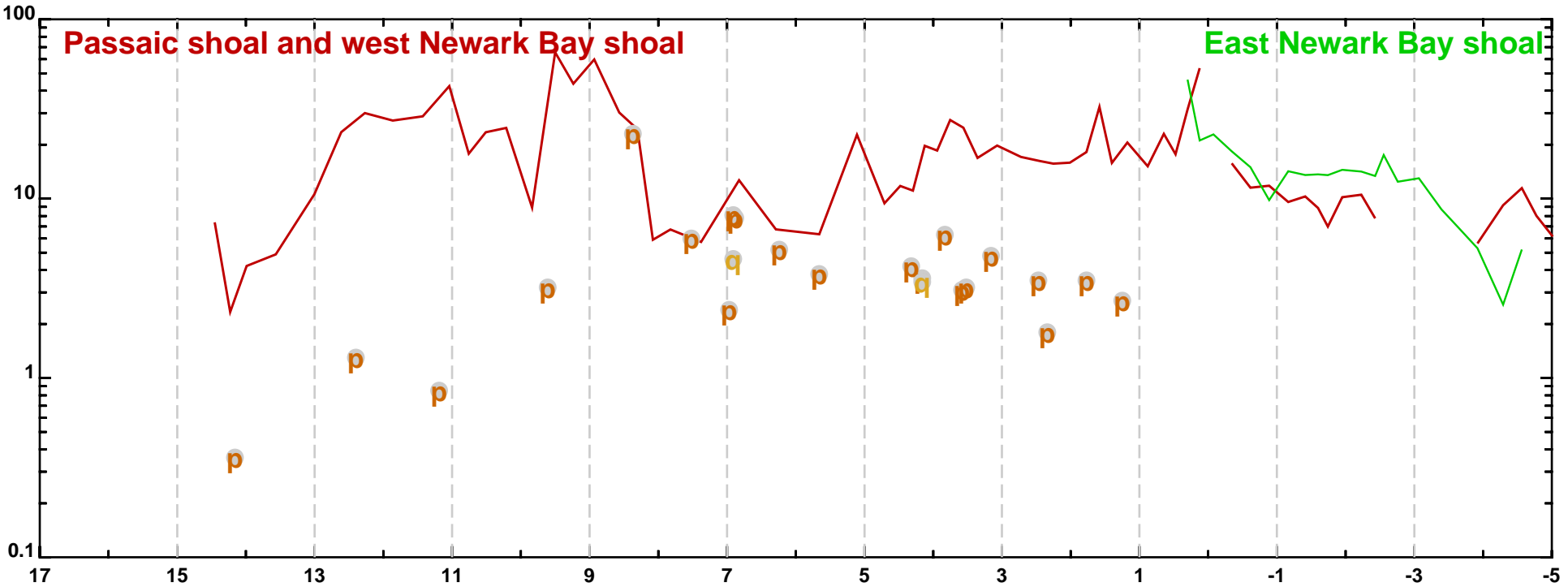
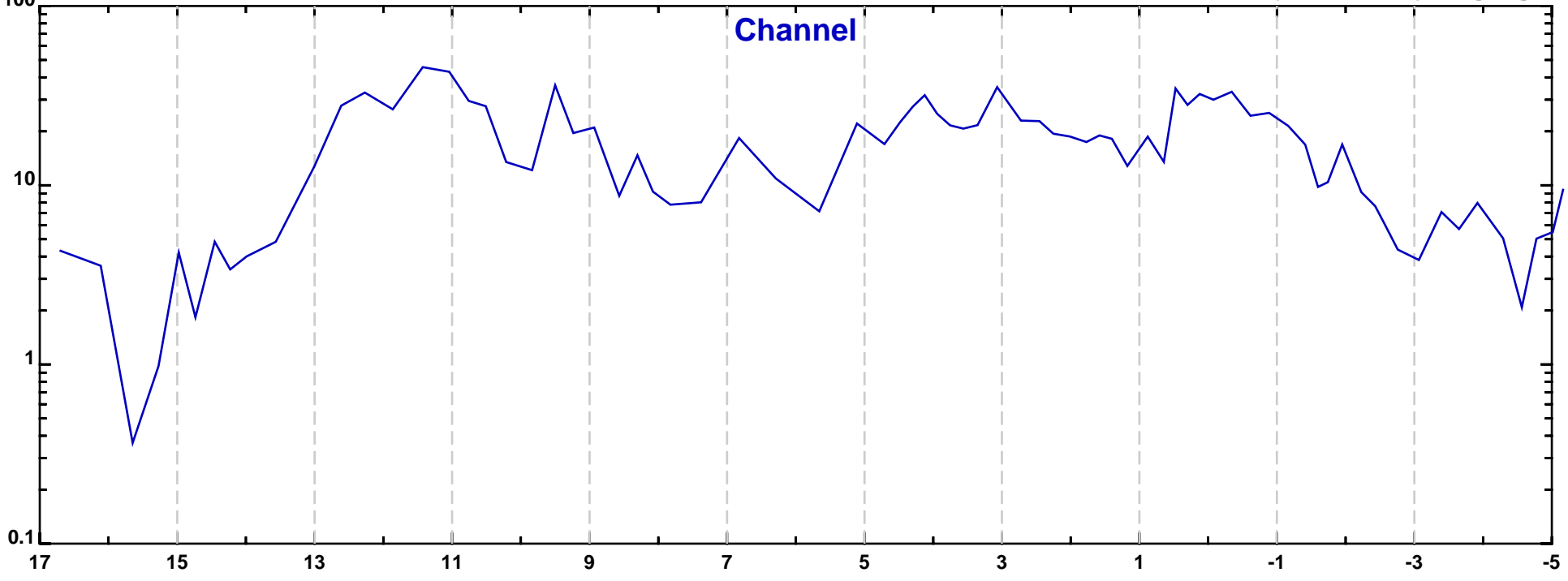
Top 15cm Conc. (ug/kg-DW)

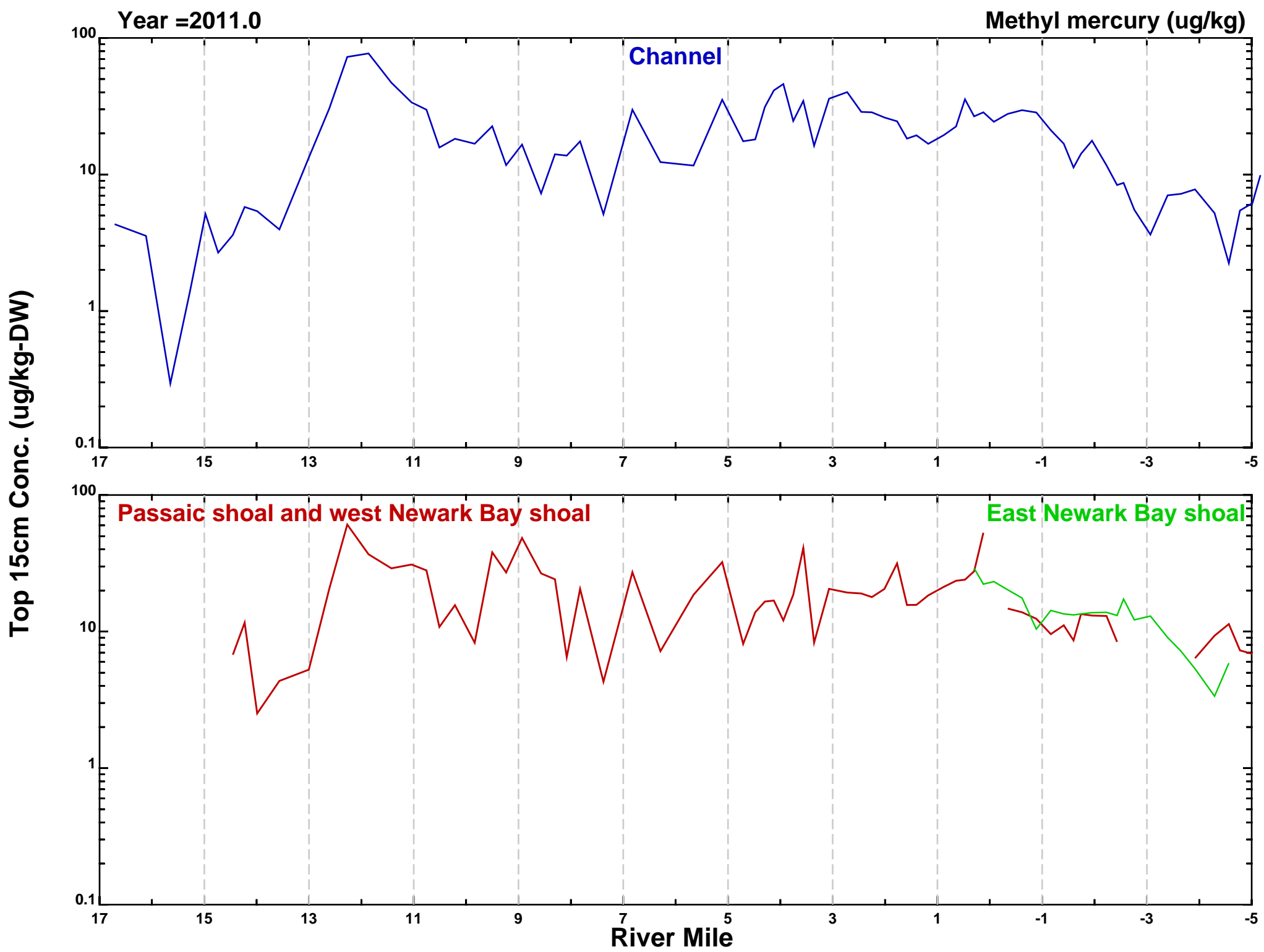
Channel

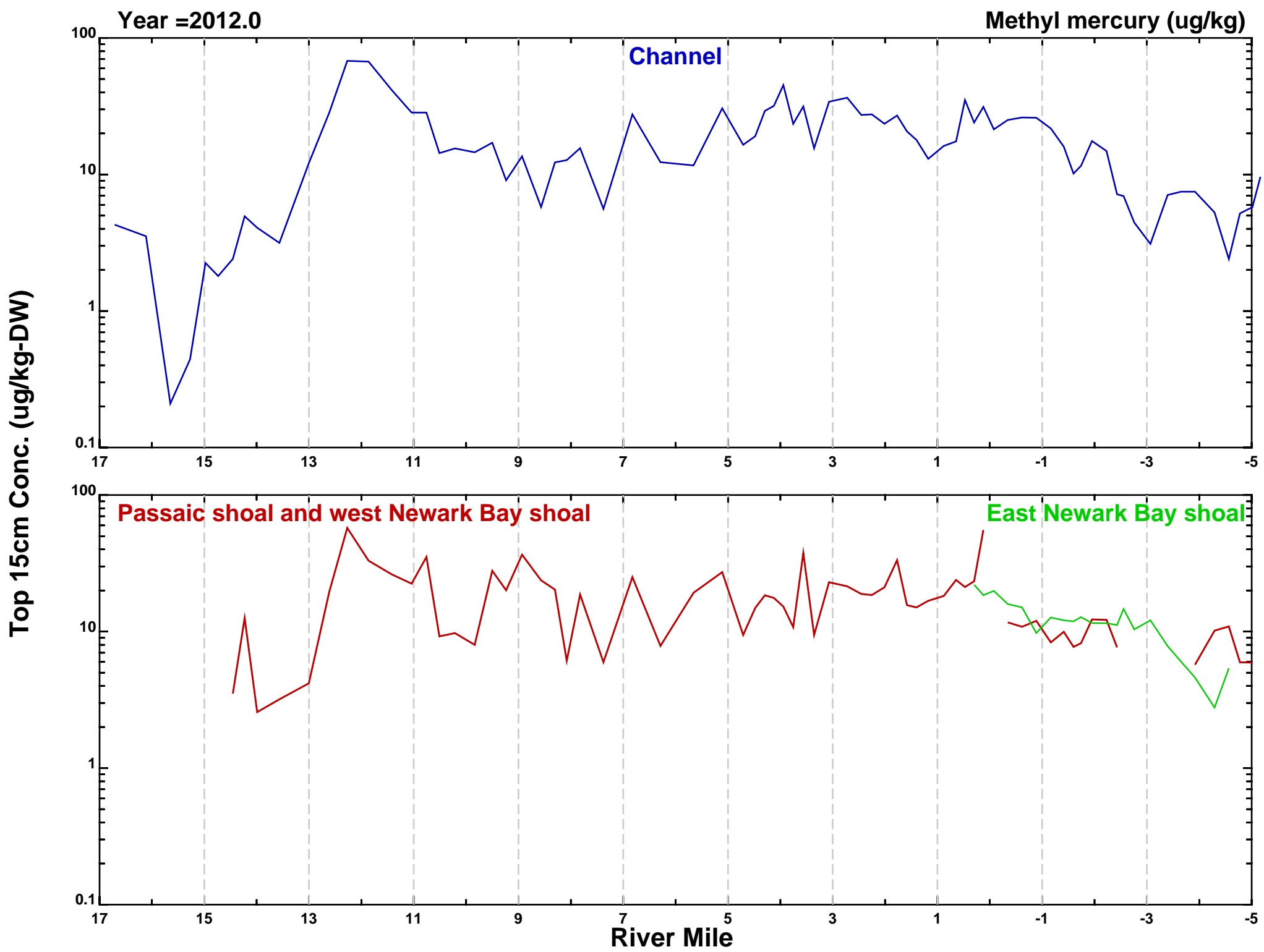
Passaic shoal and west Newark Bay shoal

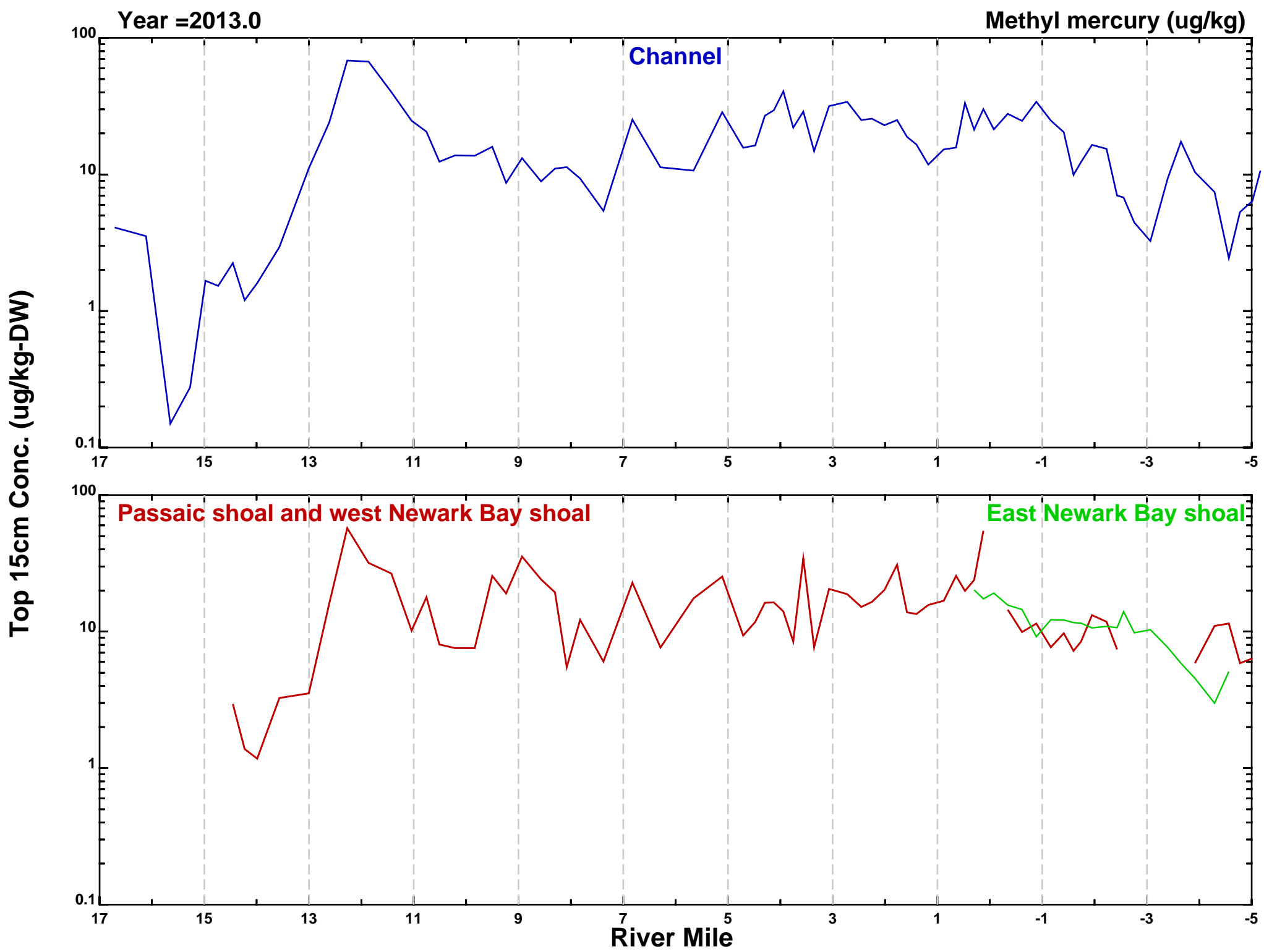
East Newark Bay shoal

River Mile



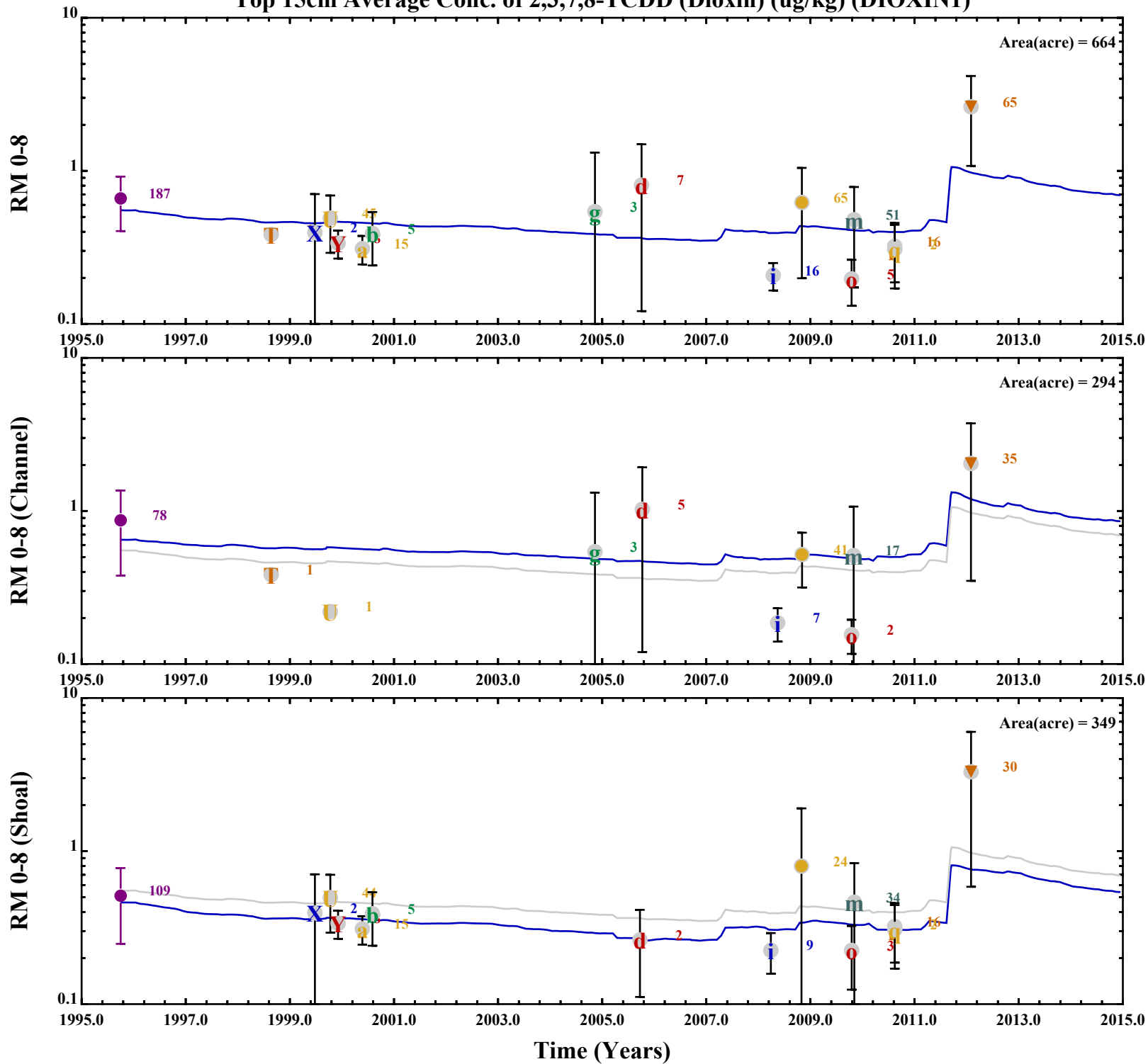






**Attachment C-1**  
**LPR Surface Sediment Reach Average Time**  
**Series Calibration**

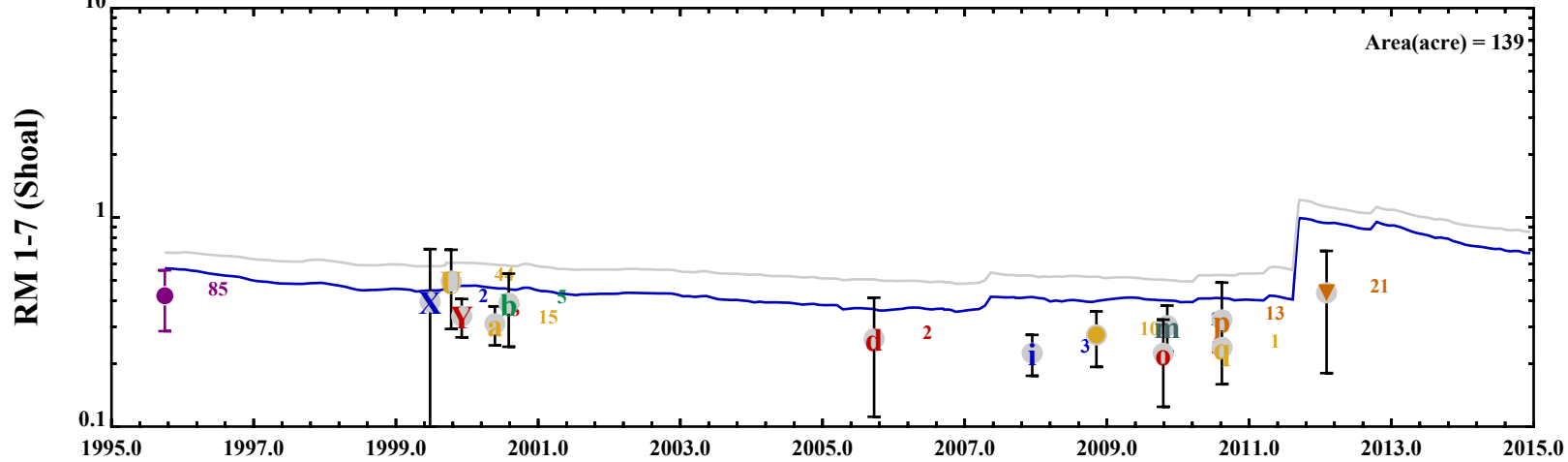
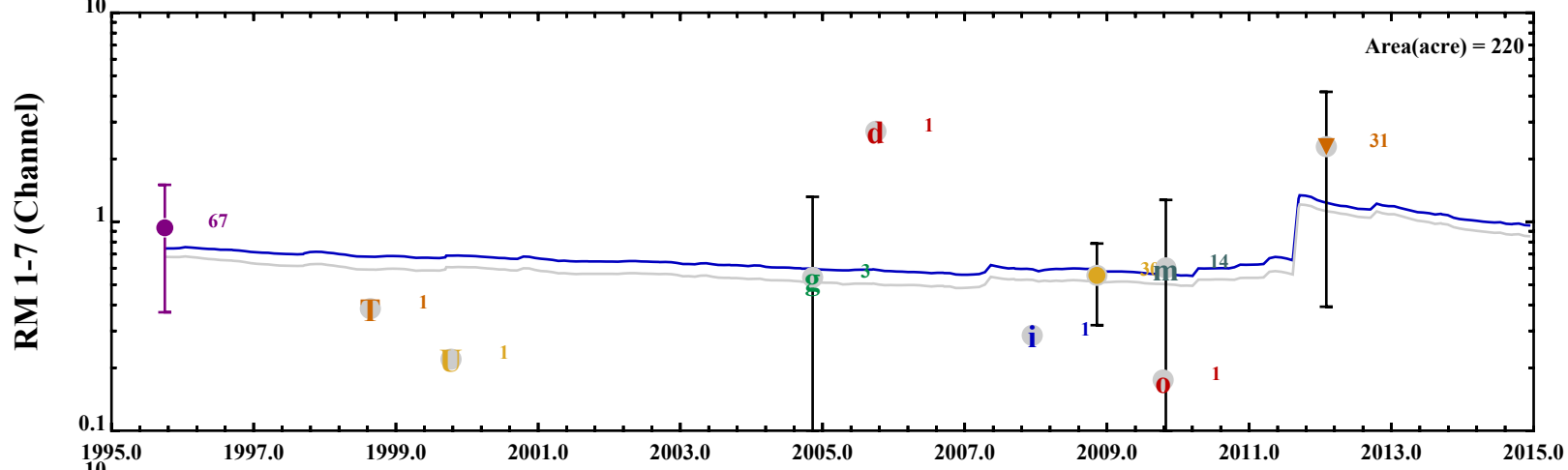
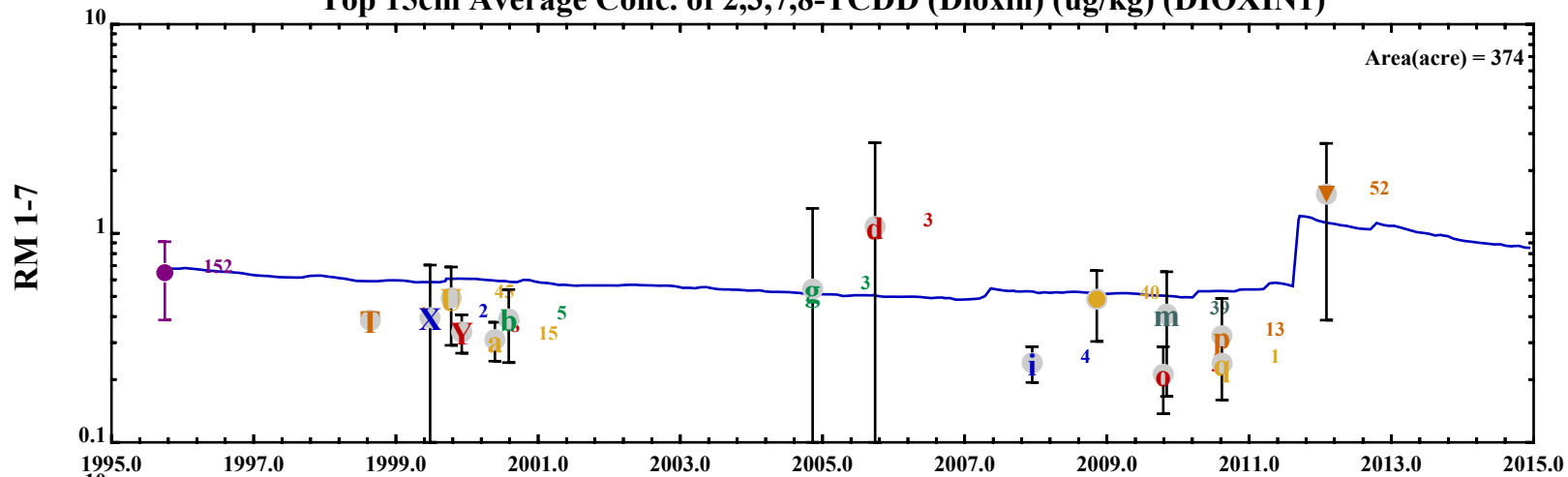
# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



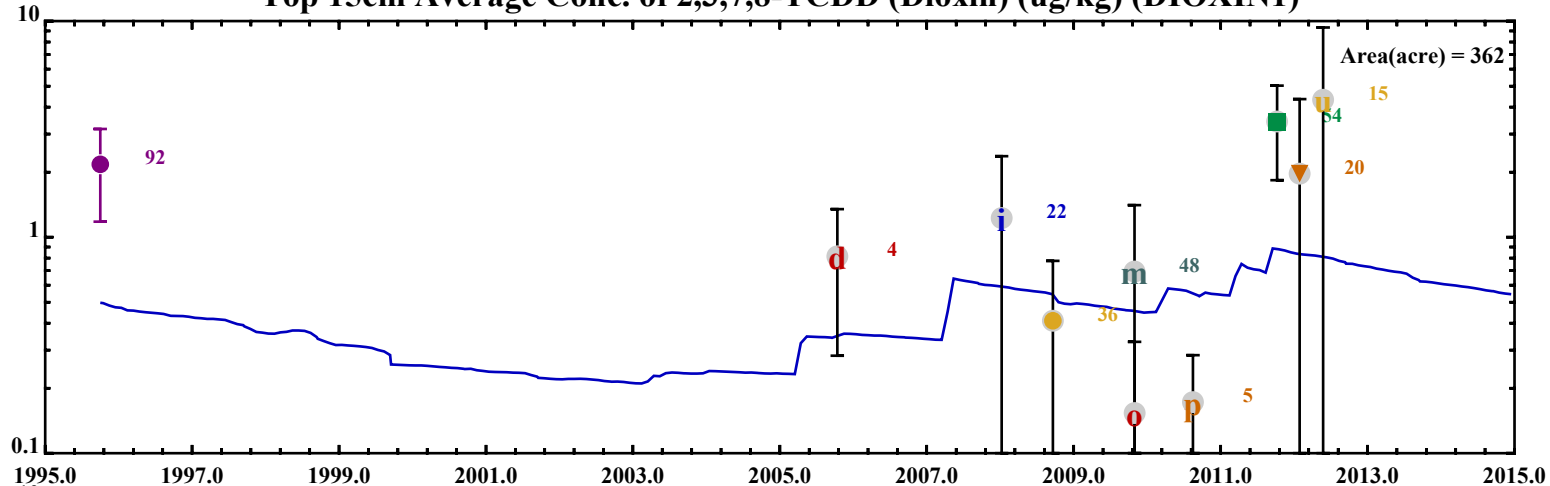
- Data used for ICs
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- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
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- REMAP, 1993
- 1994 Surficial Sediment Investigation
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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
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- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

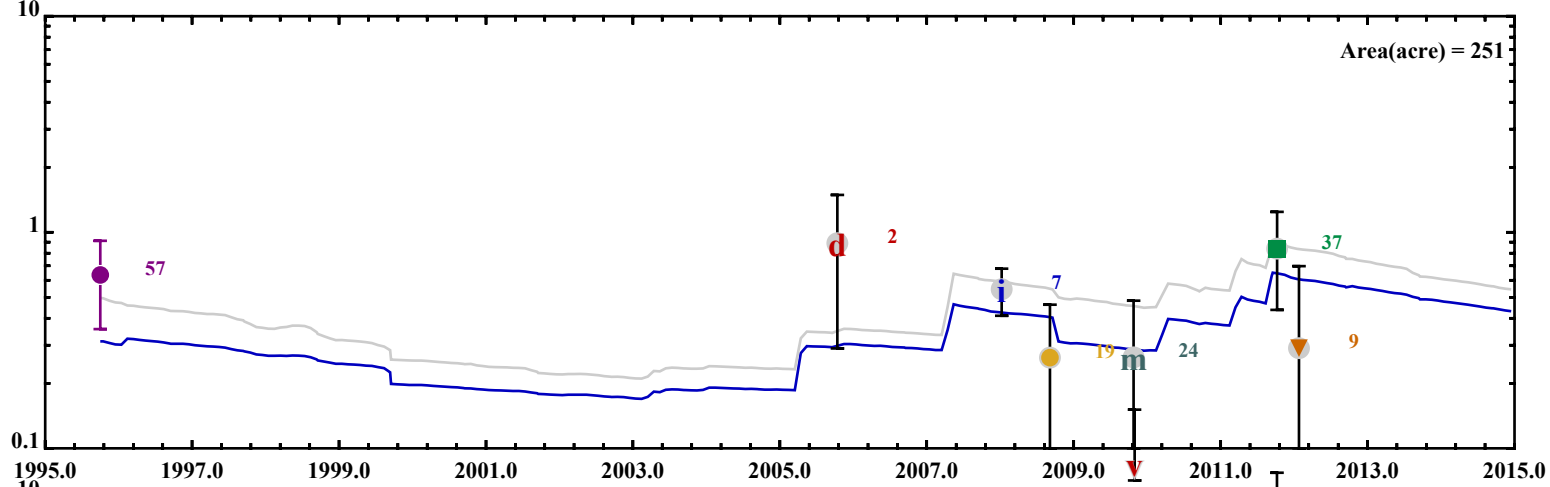
Time (Years)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)

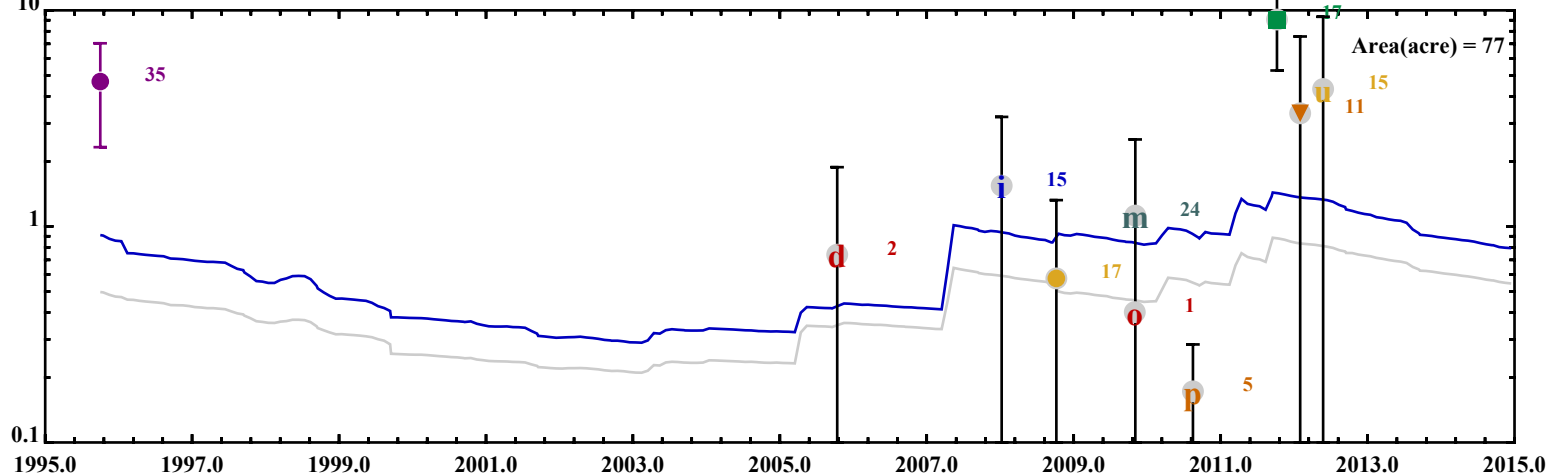
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

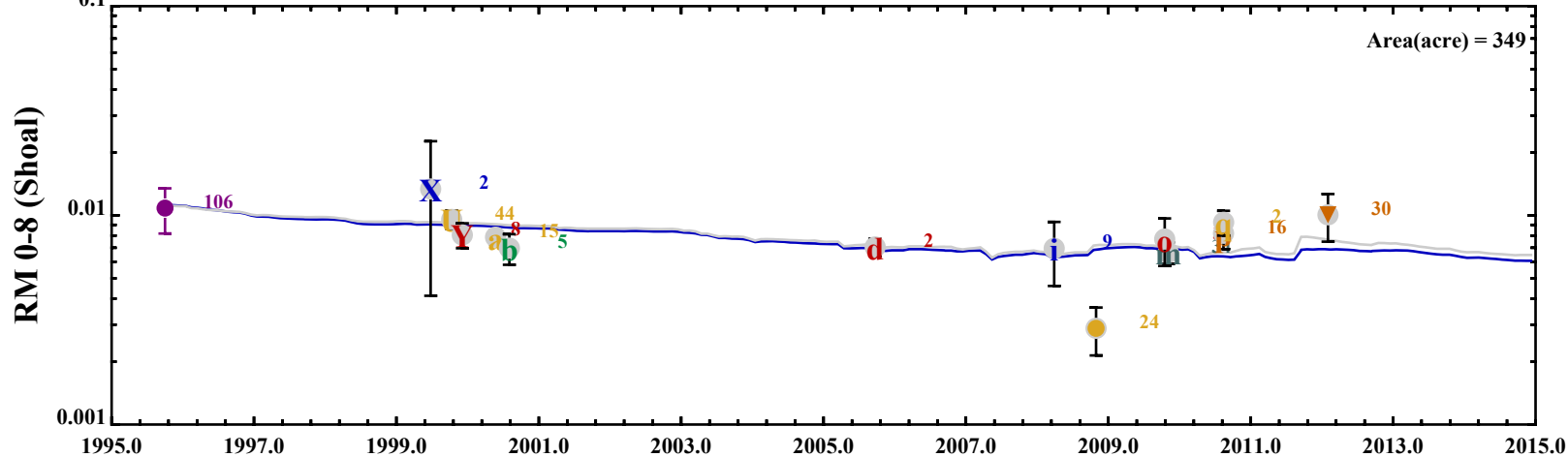
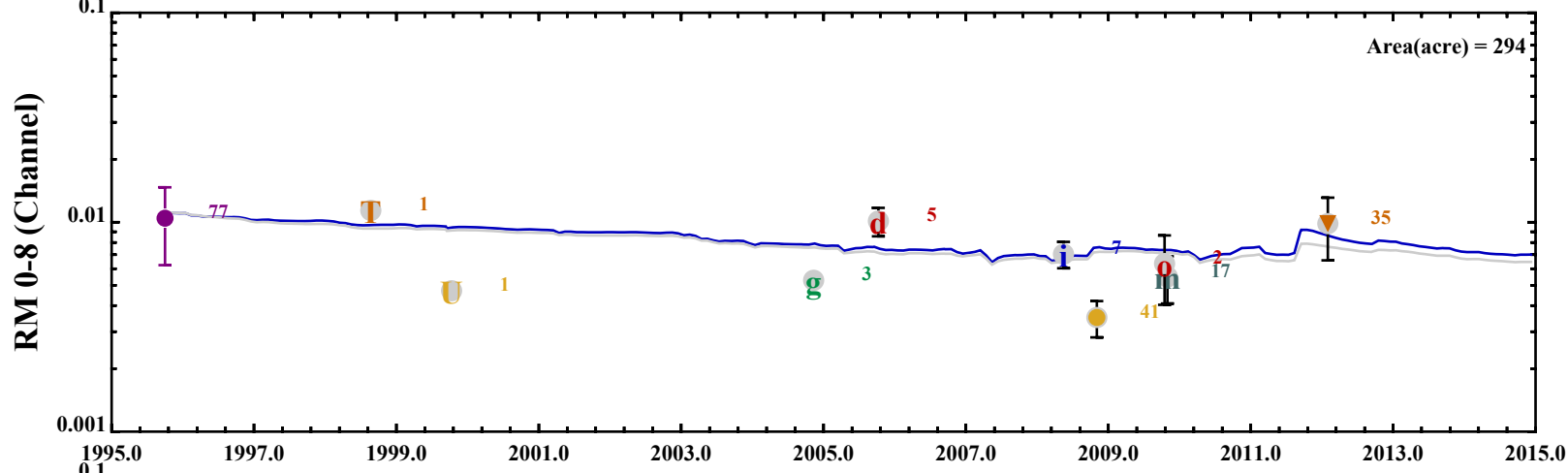
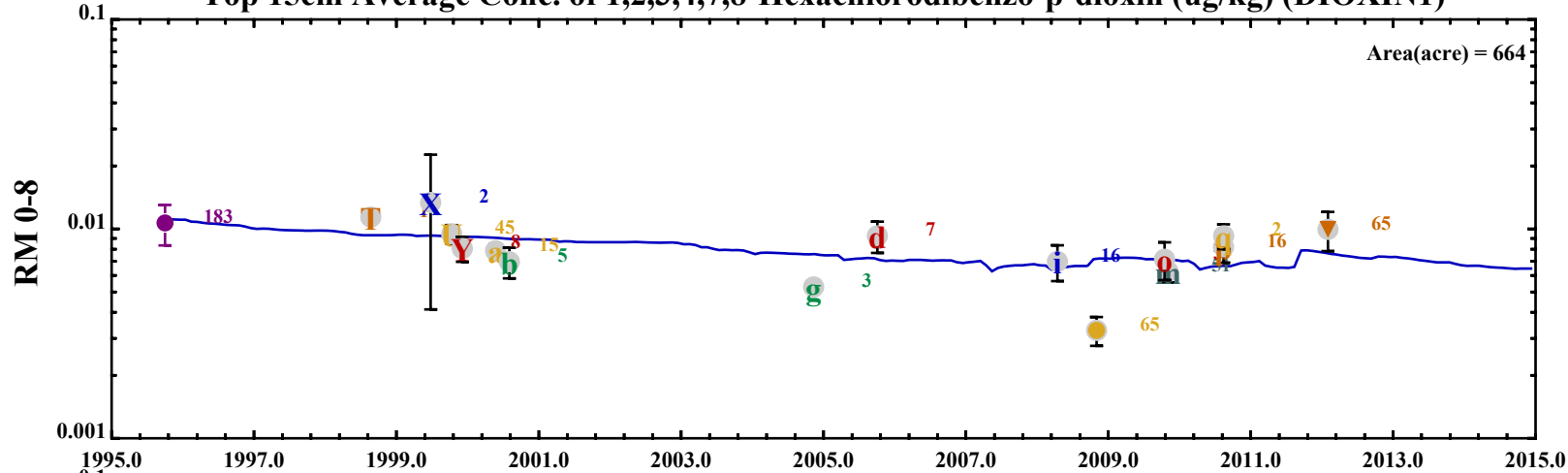


Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

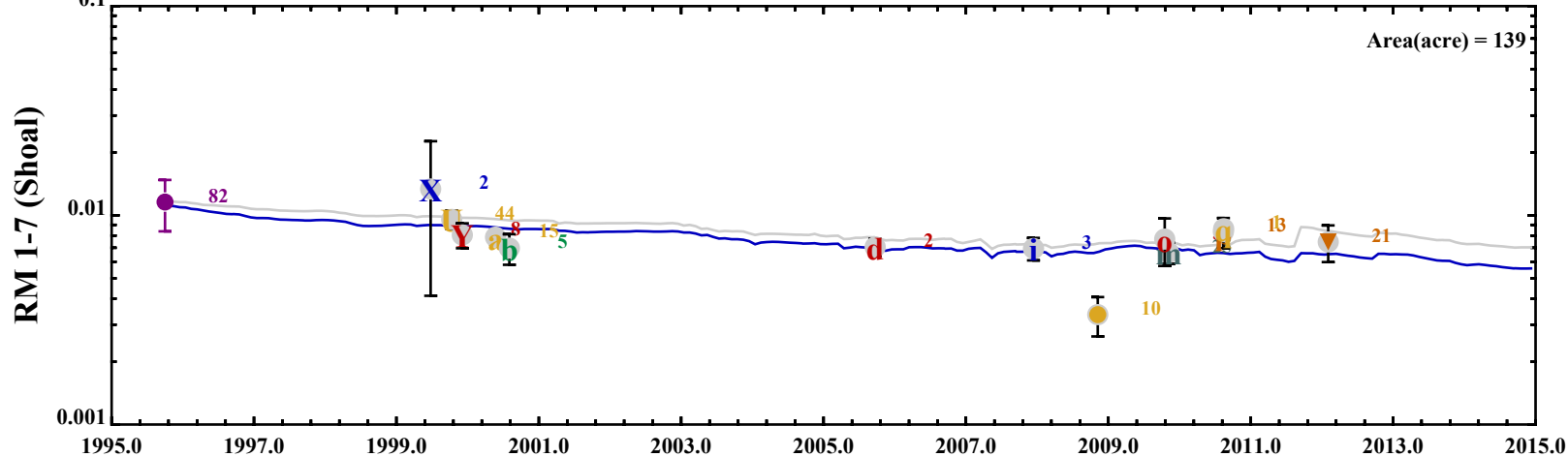
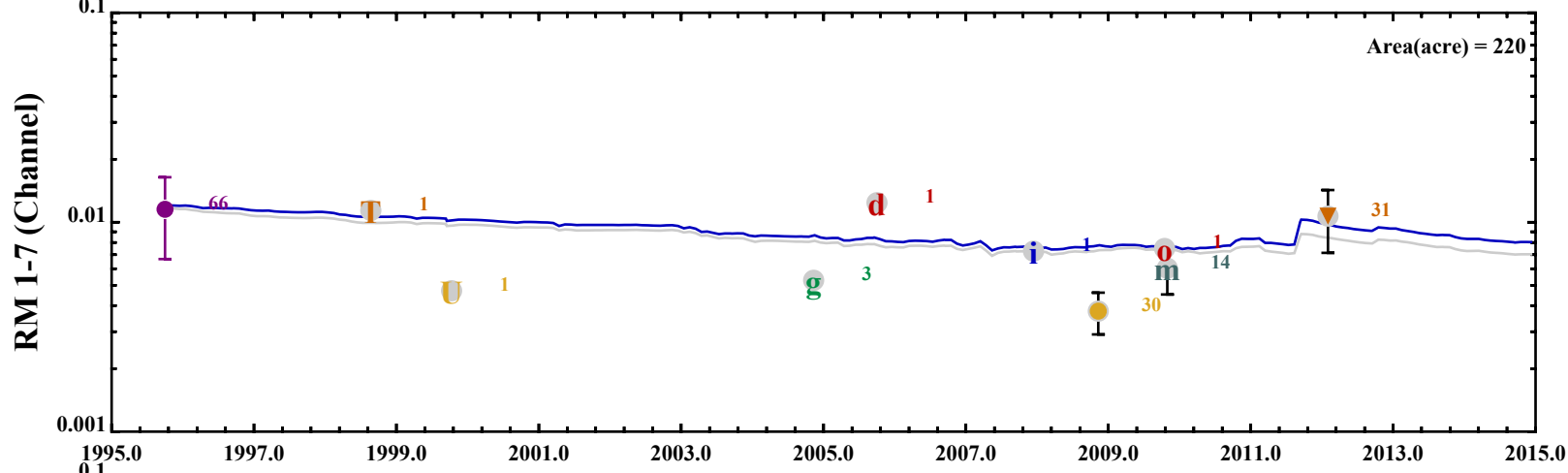
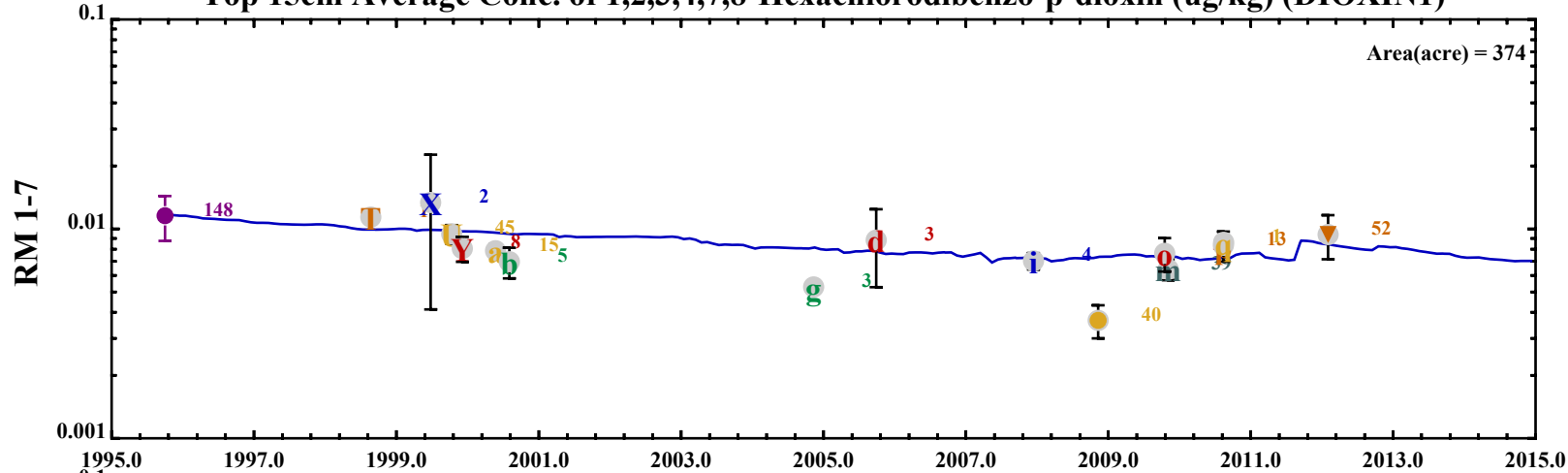
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 Newark River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

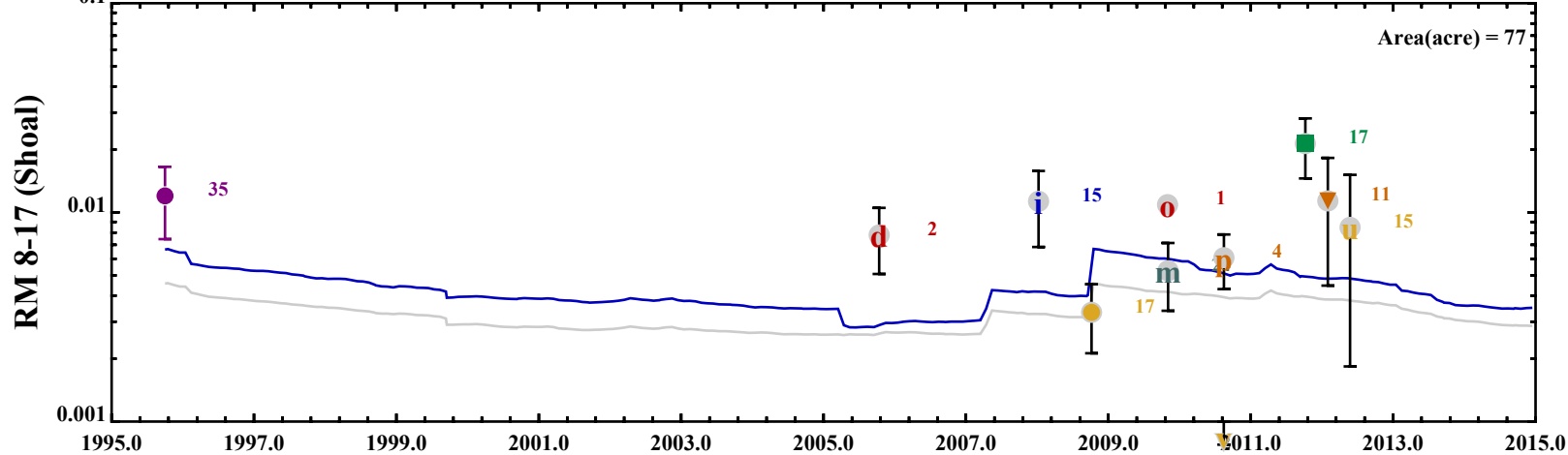
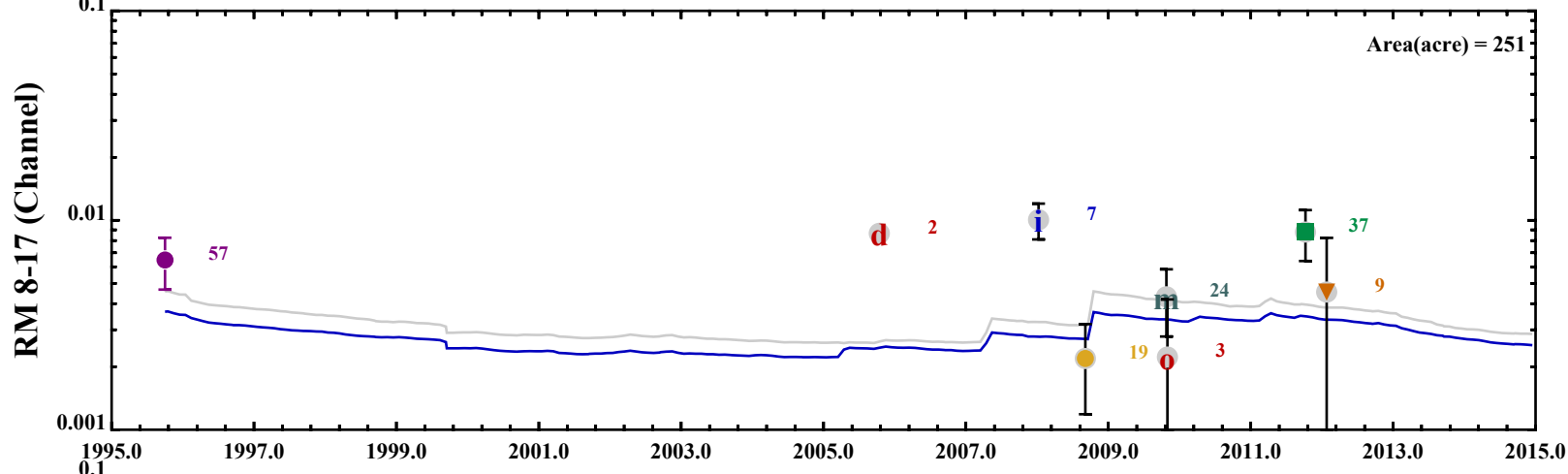
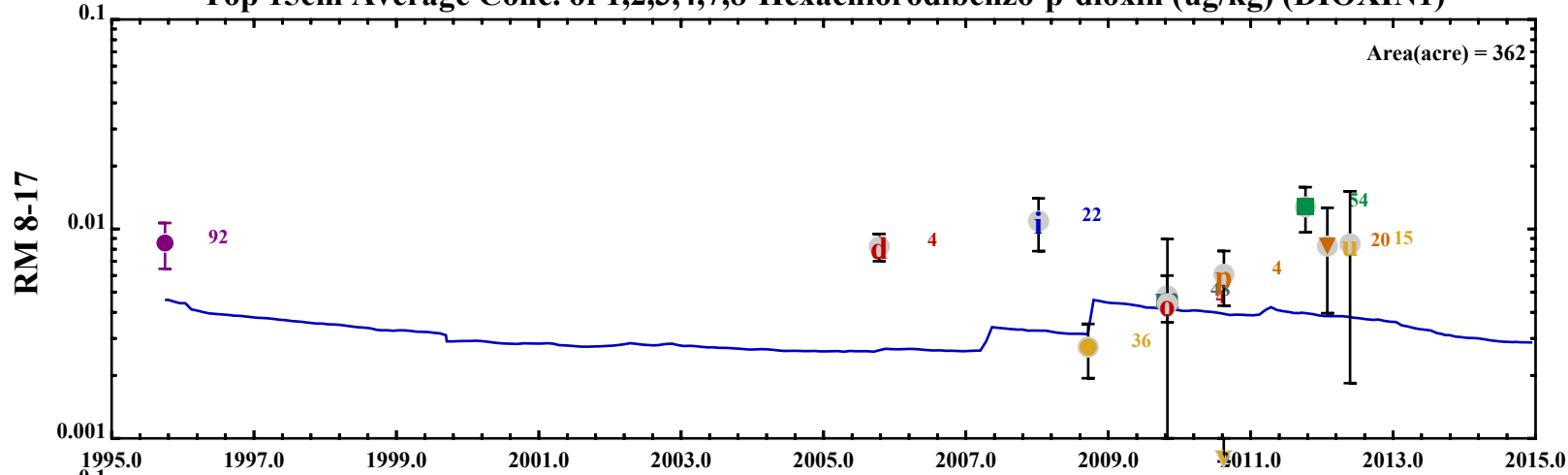
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
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  - 1995 RI Sampling Program
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  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

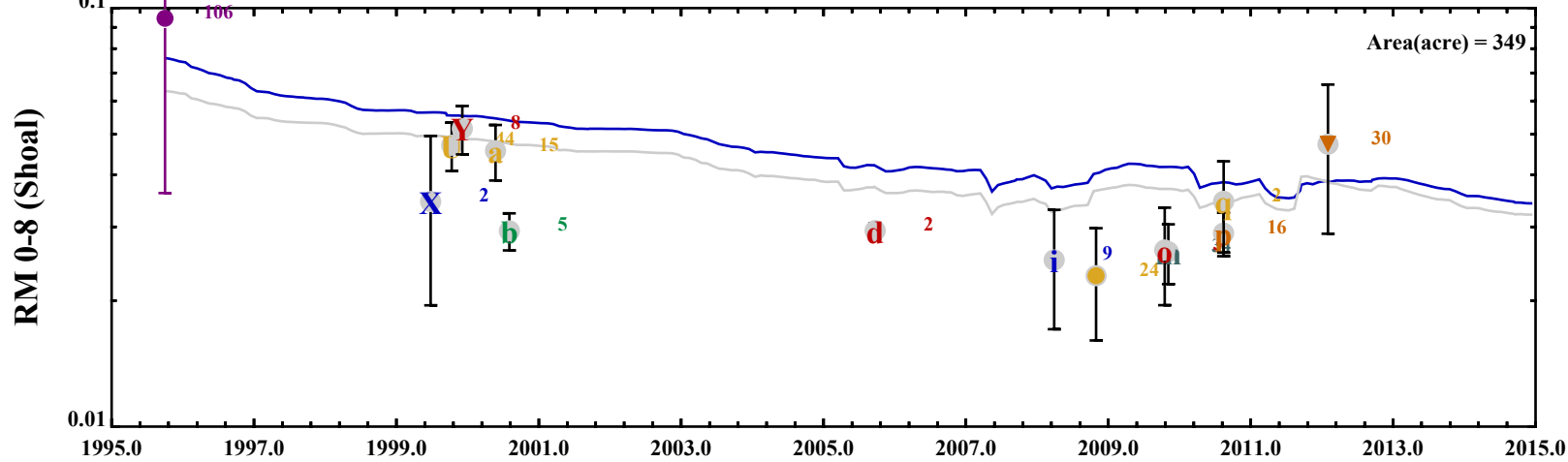
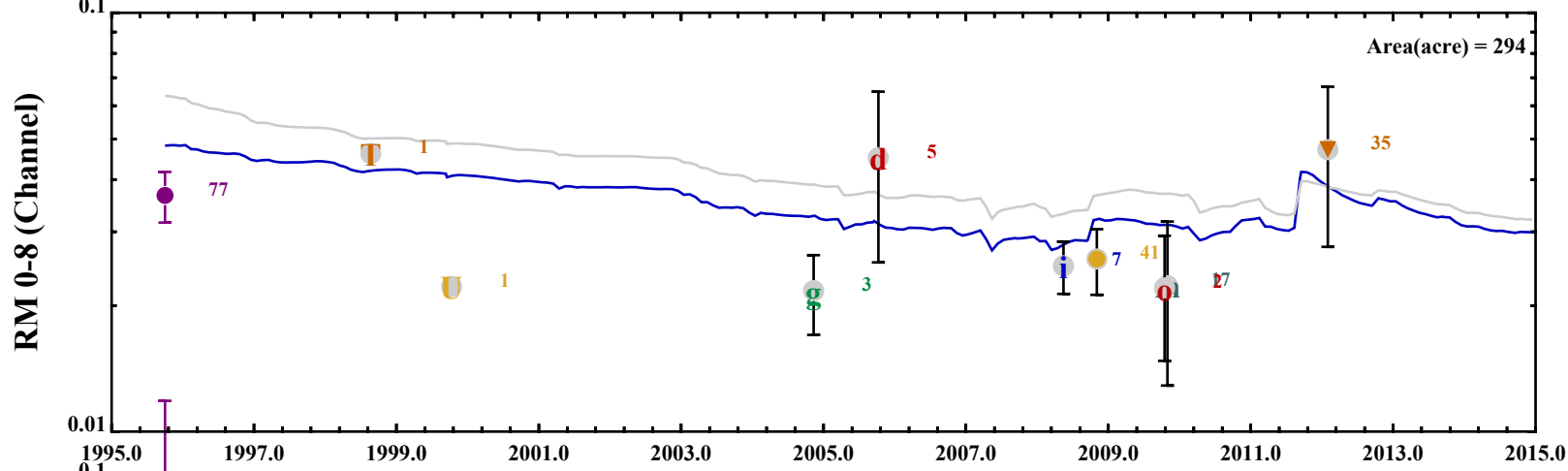
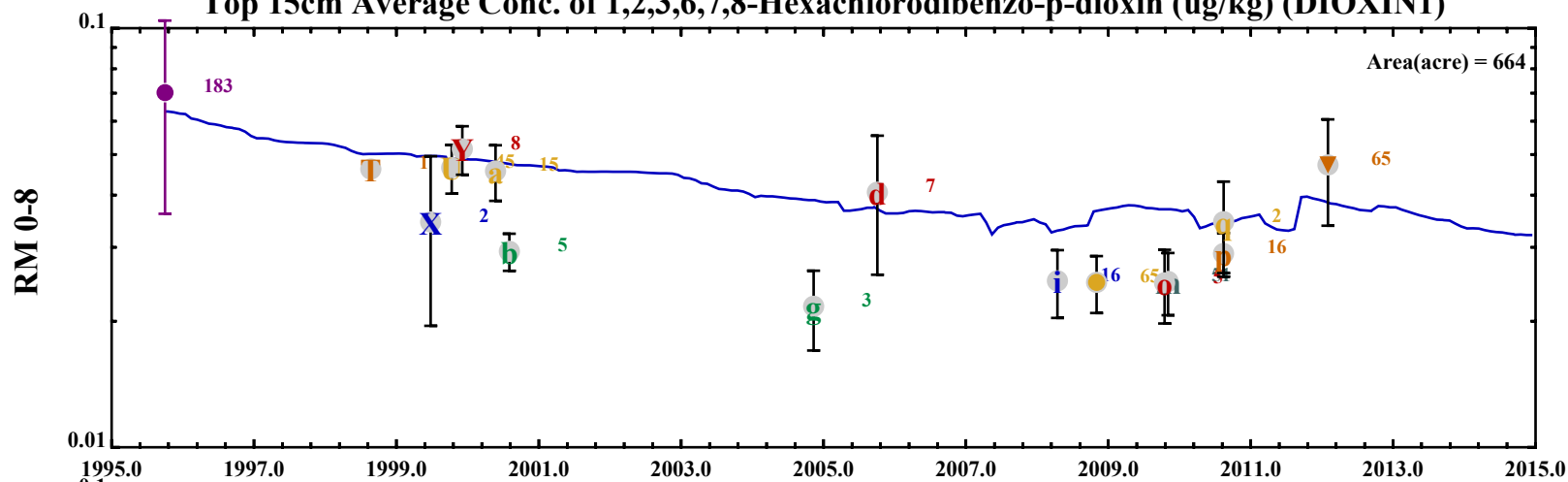


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
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- c 2005 MPI - Newark Bay Phase I Oversight
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
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- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

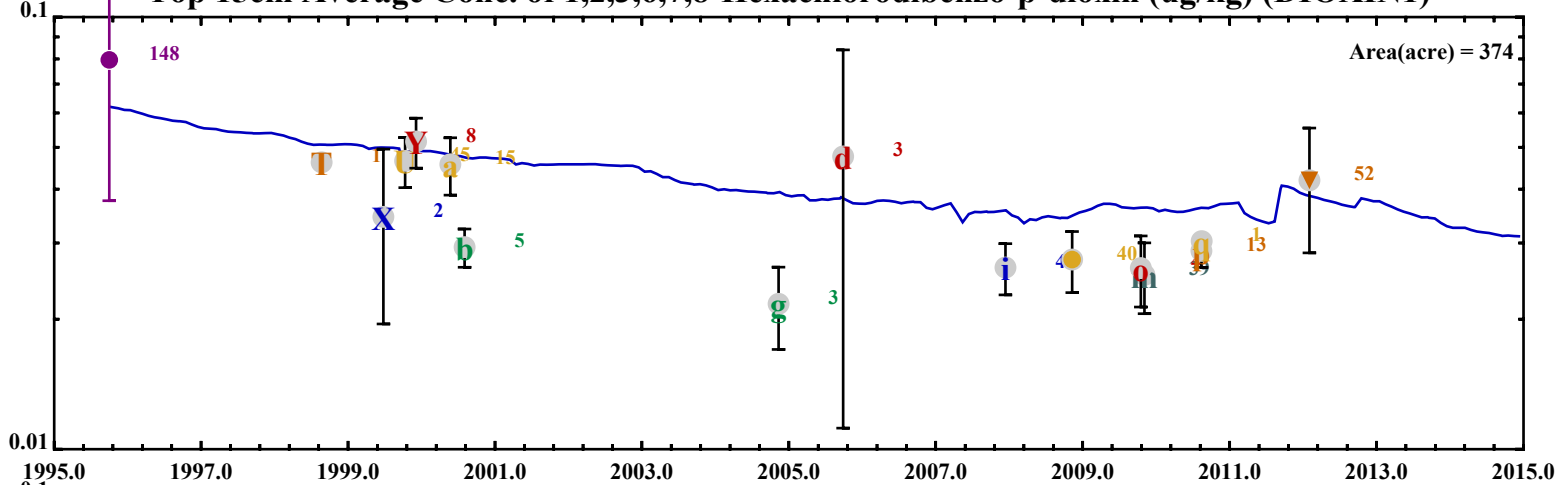


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

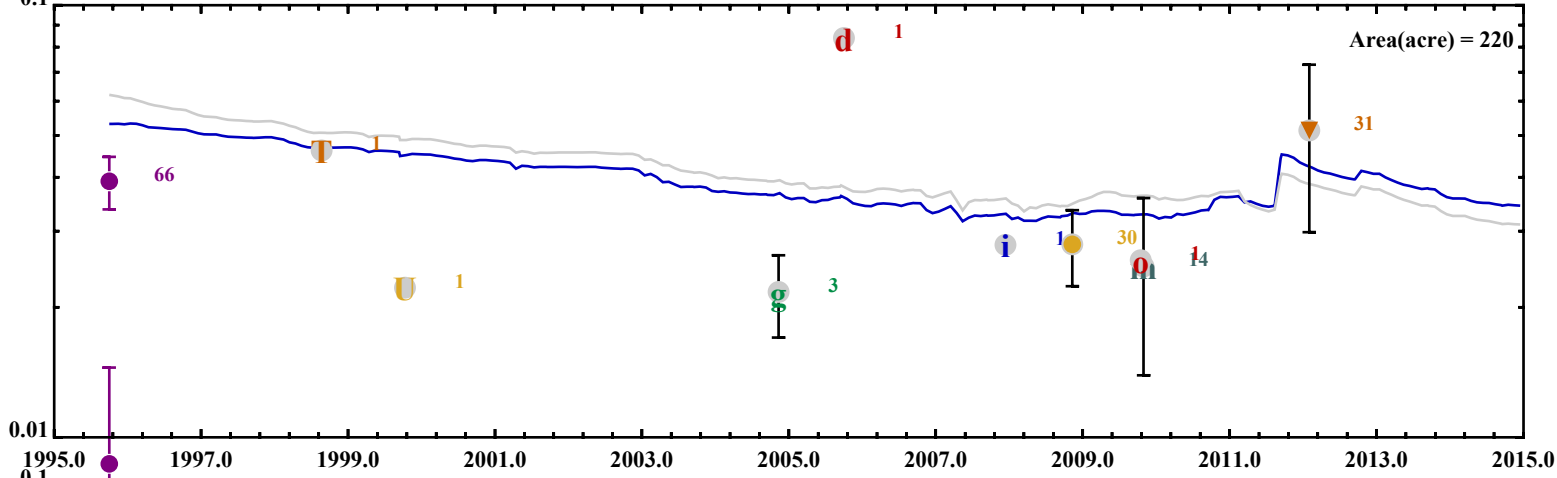
Time (Years)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

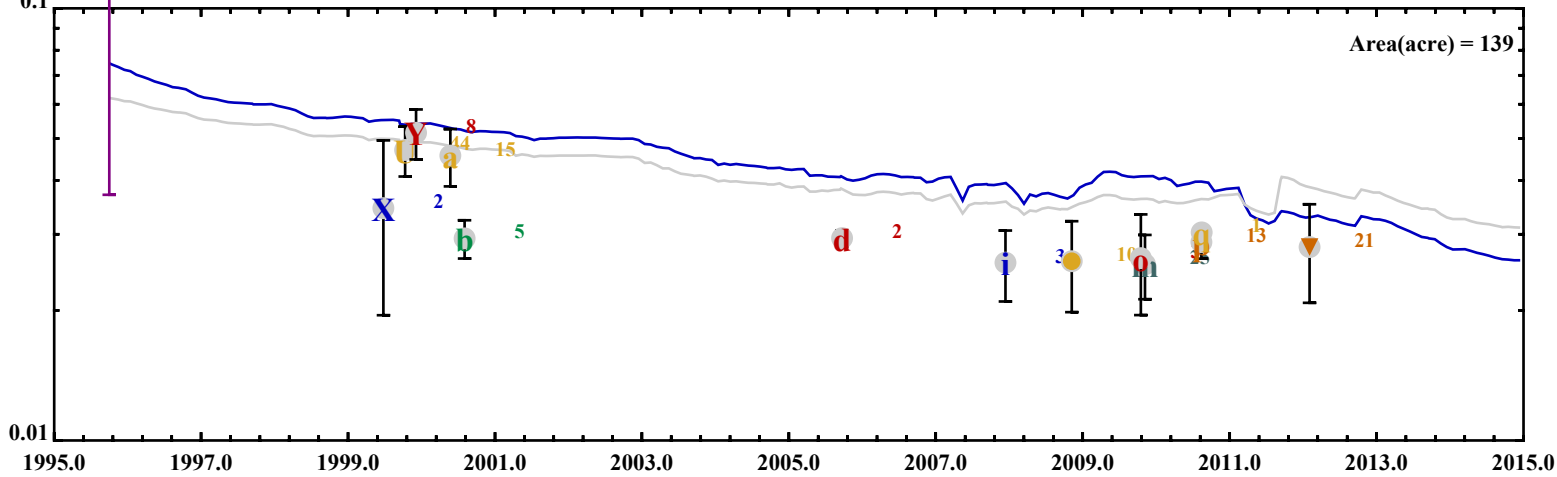
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

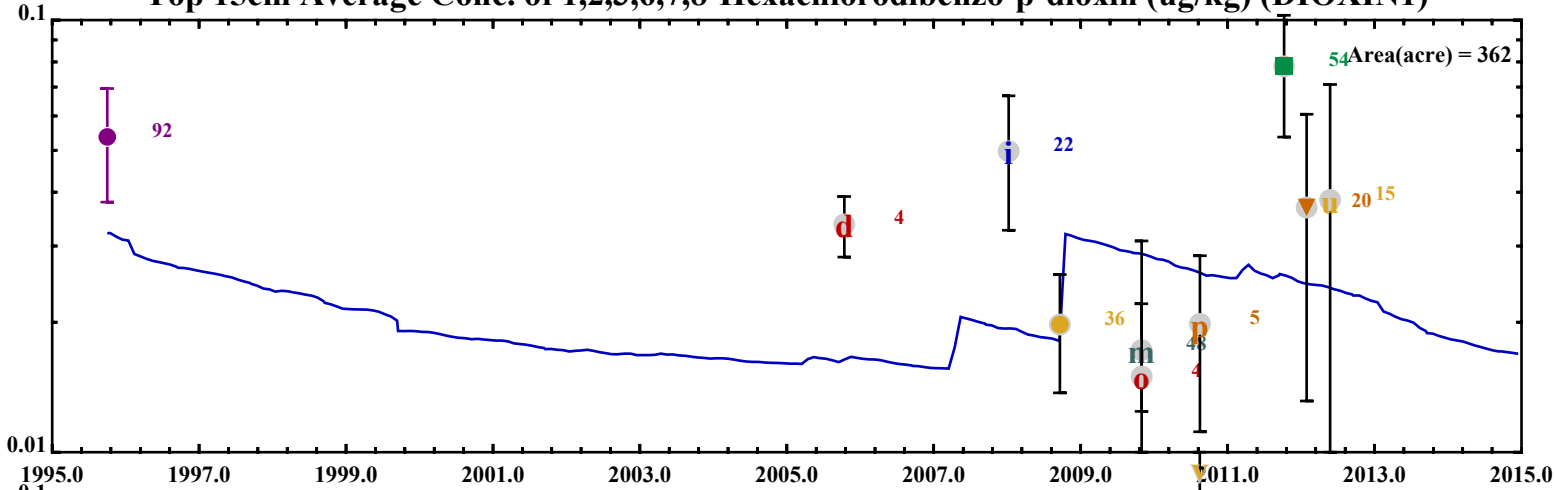


Time (Years)

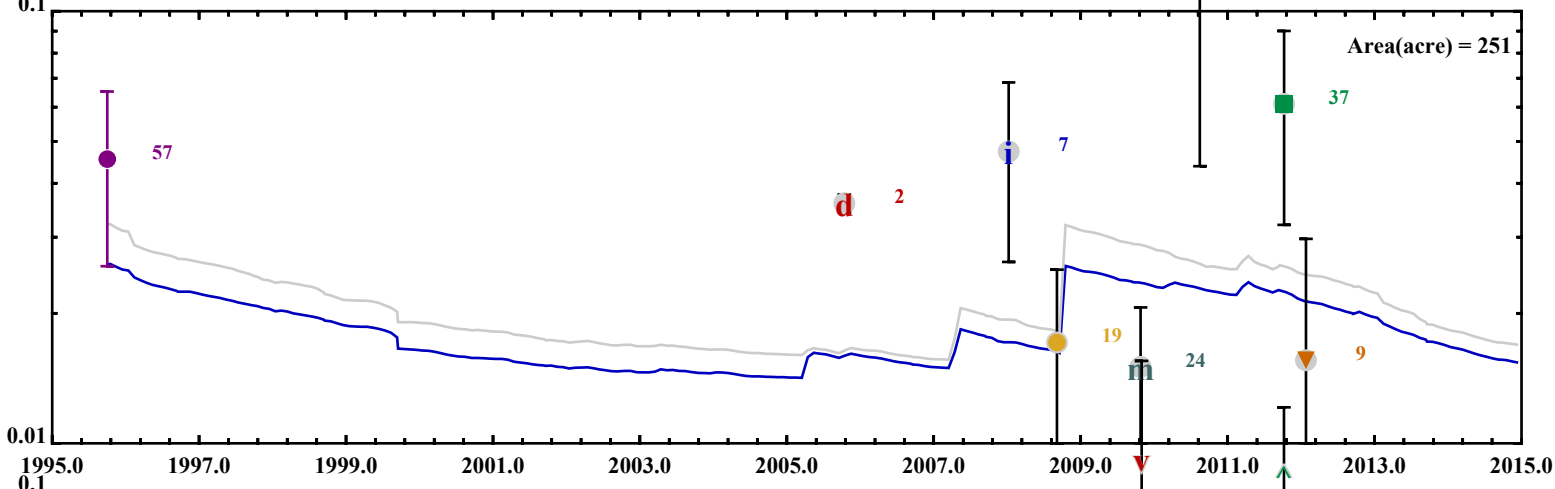
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

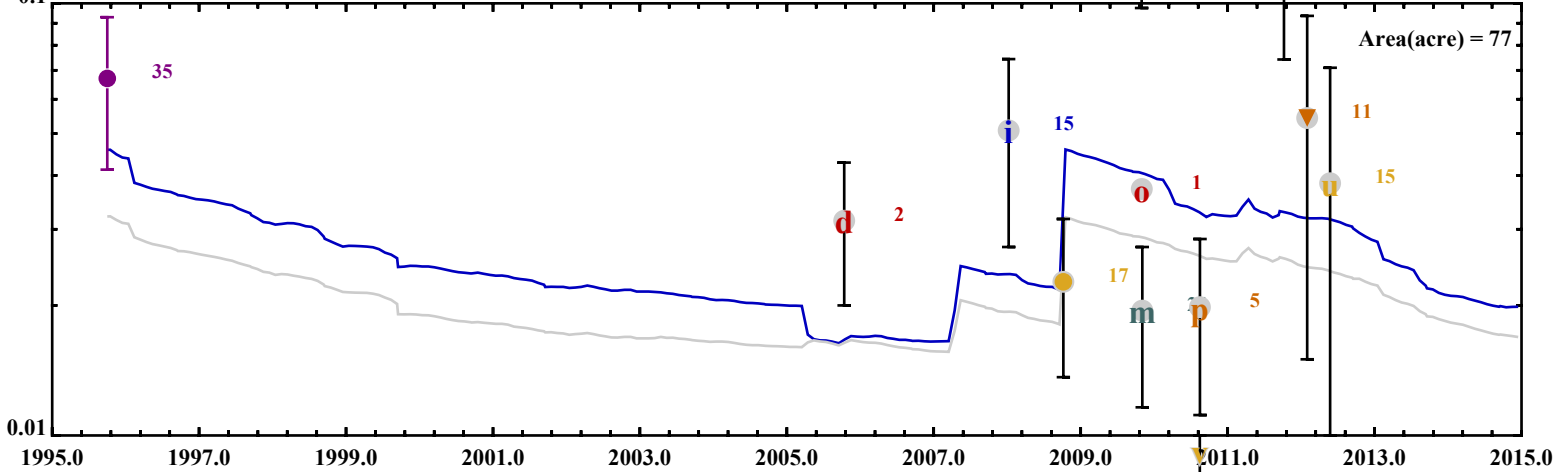
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

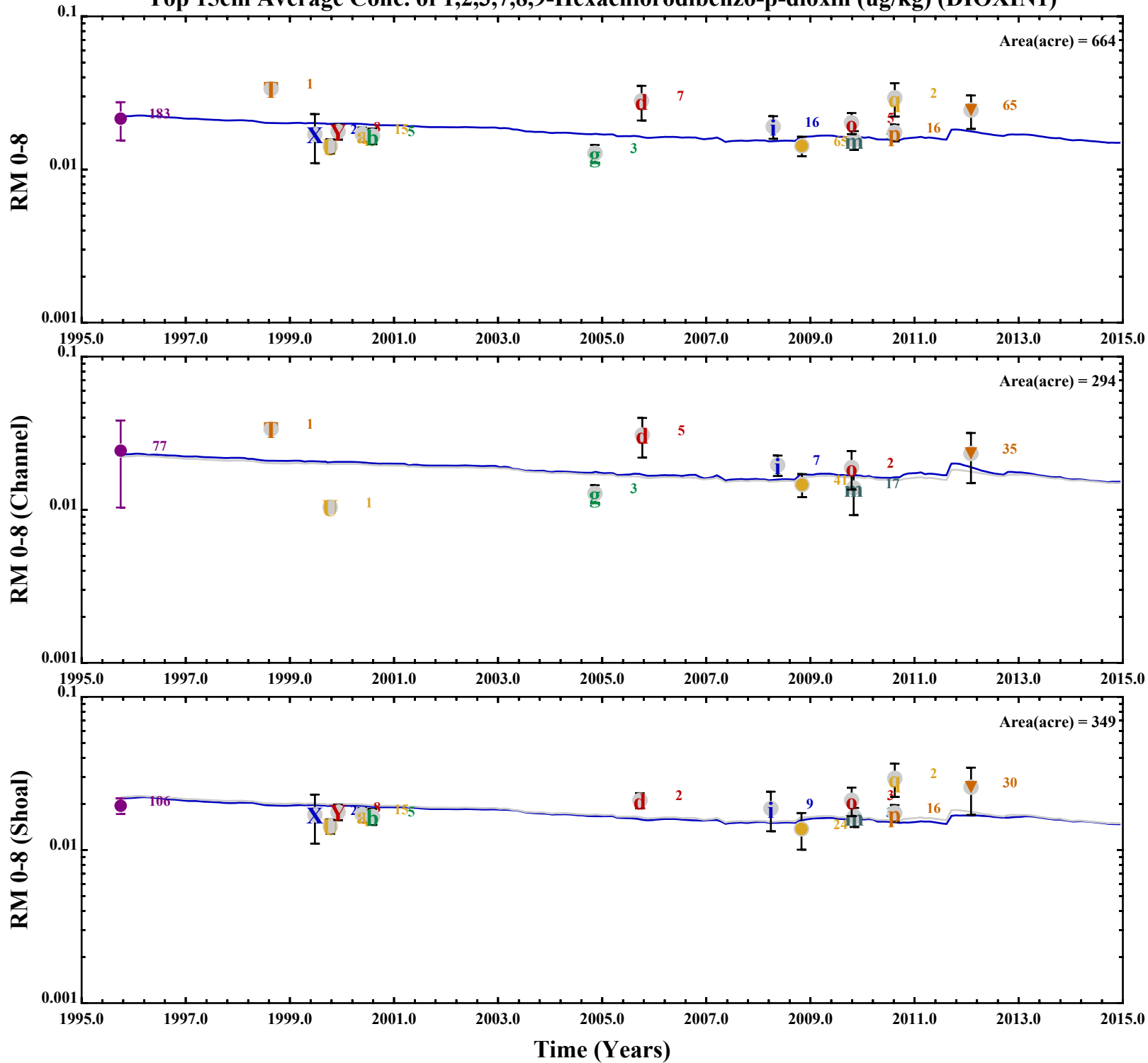


Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

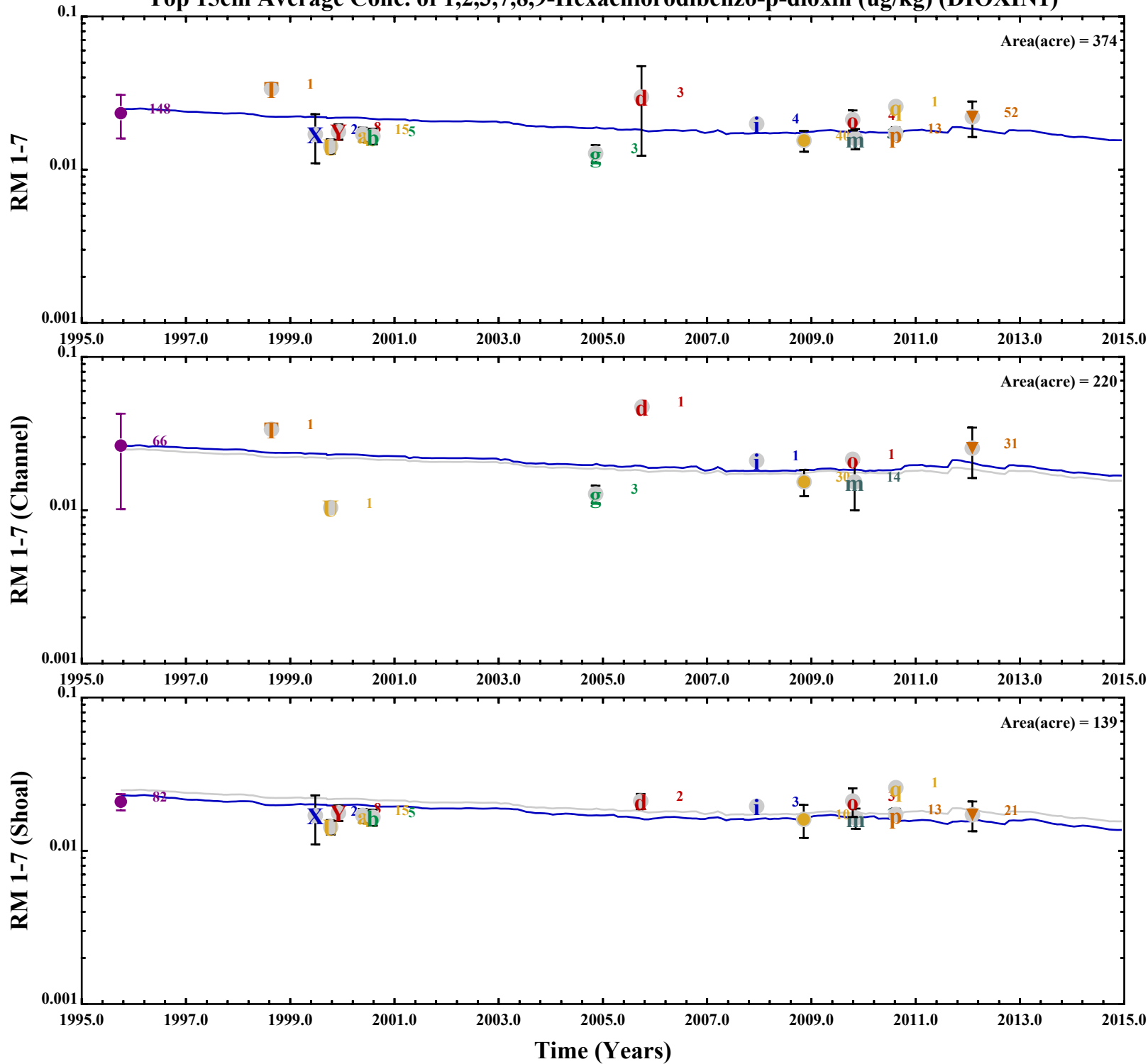


# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



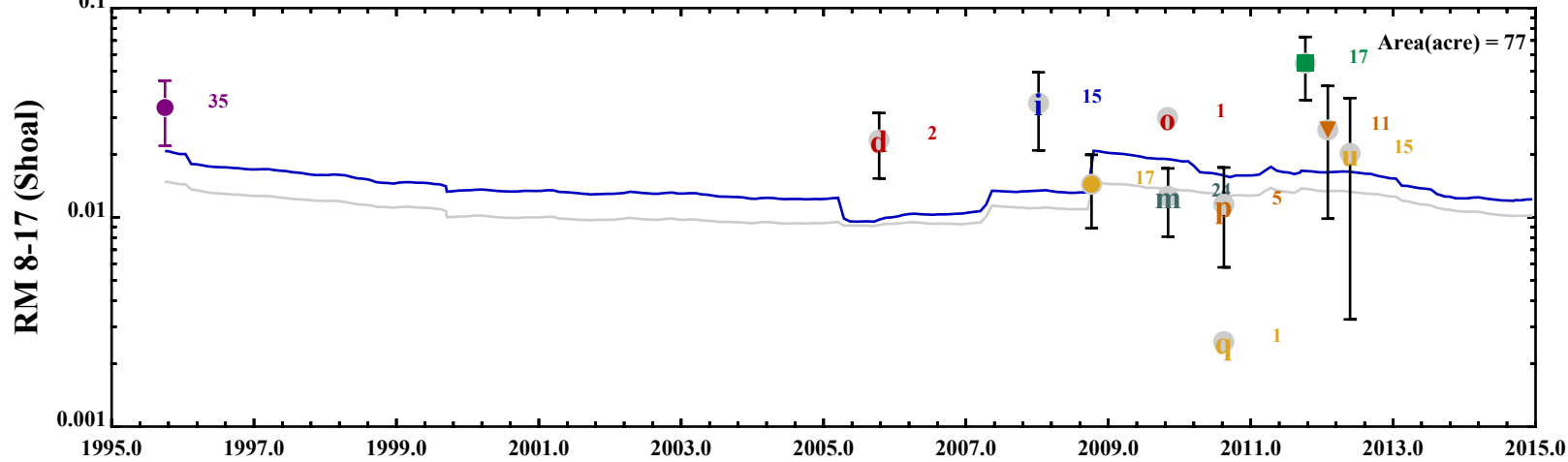
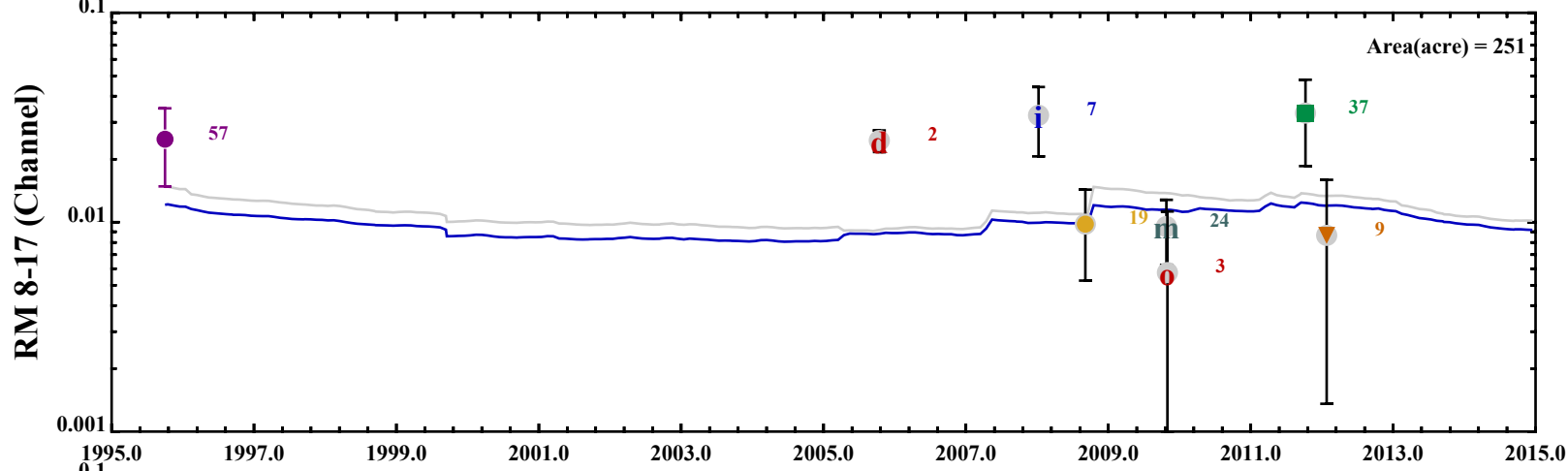
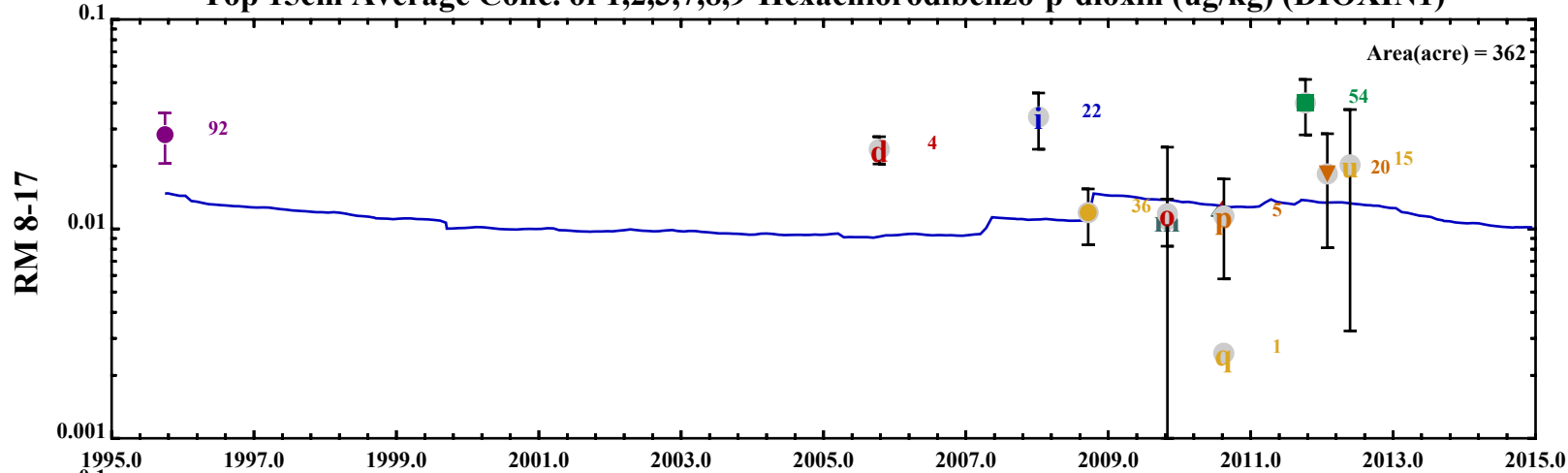
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

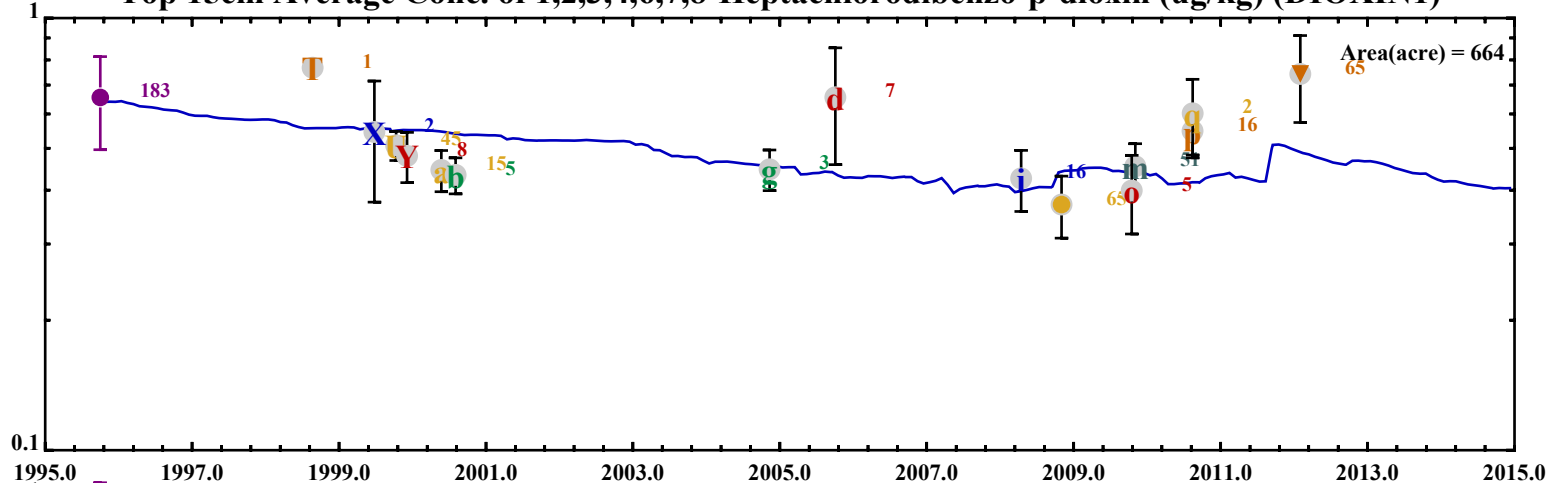


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

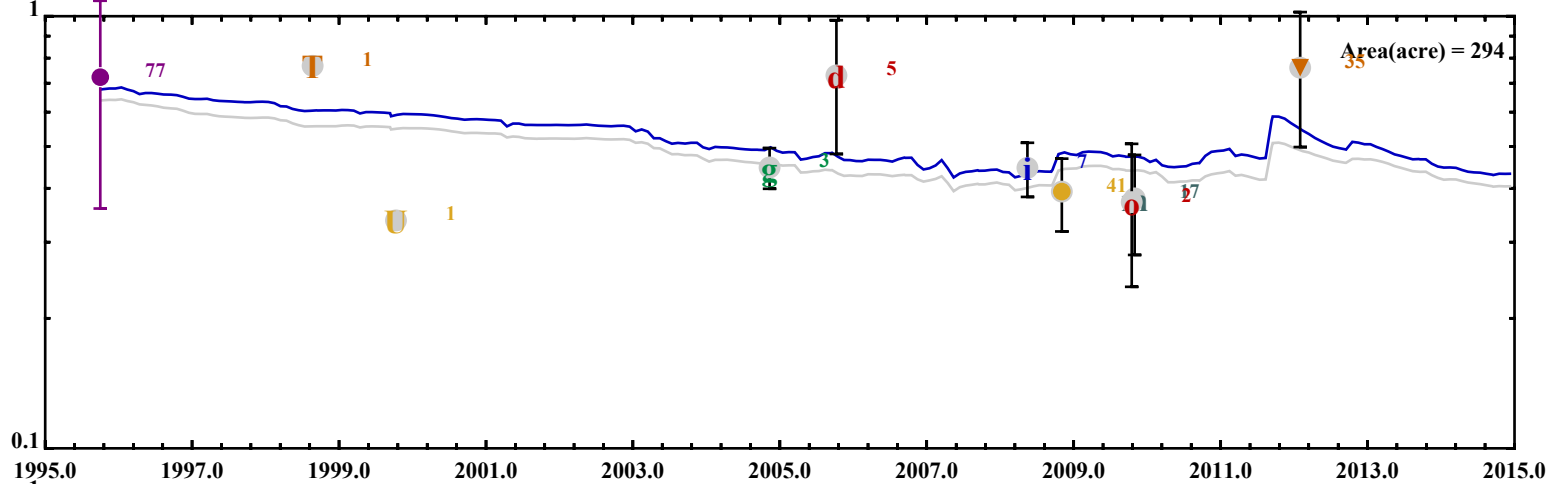
Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

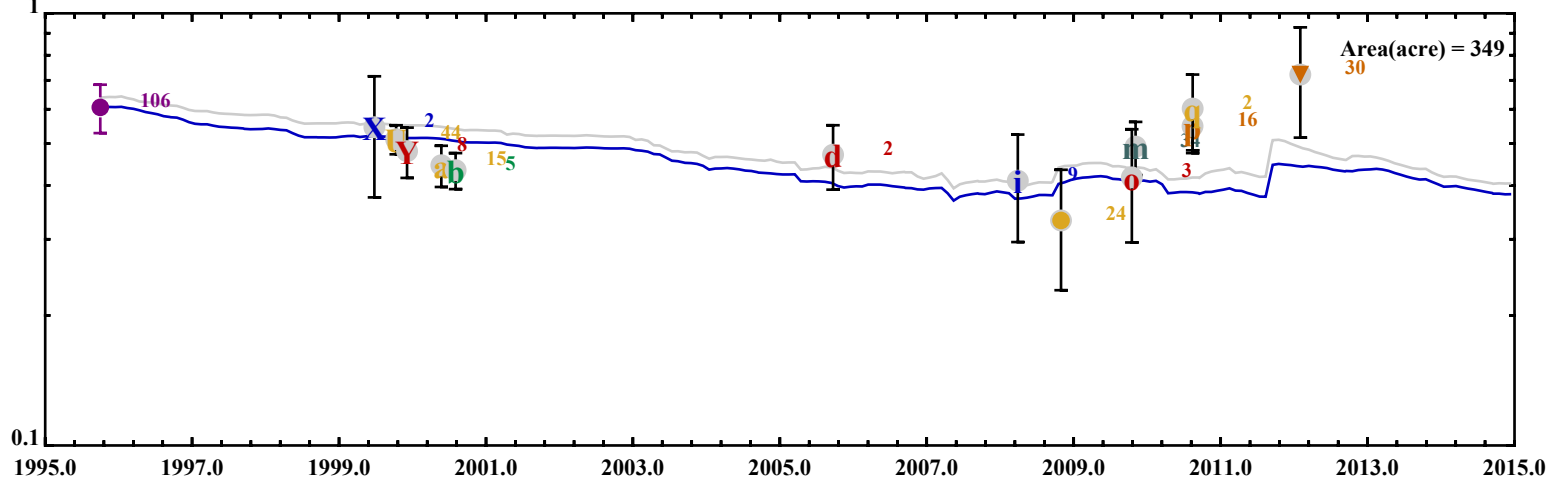
RM 0-8



RM 0-8 (Channel)



RM 0-8 (Shoal)

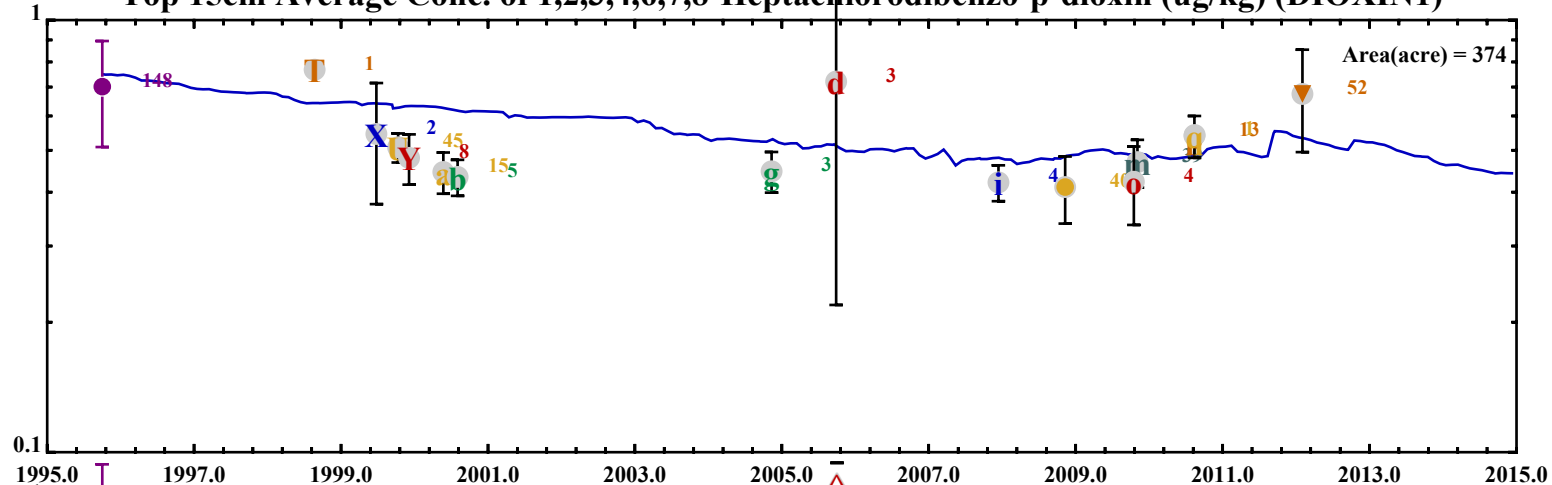


Time (Years)

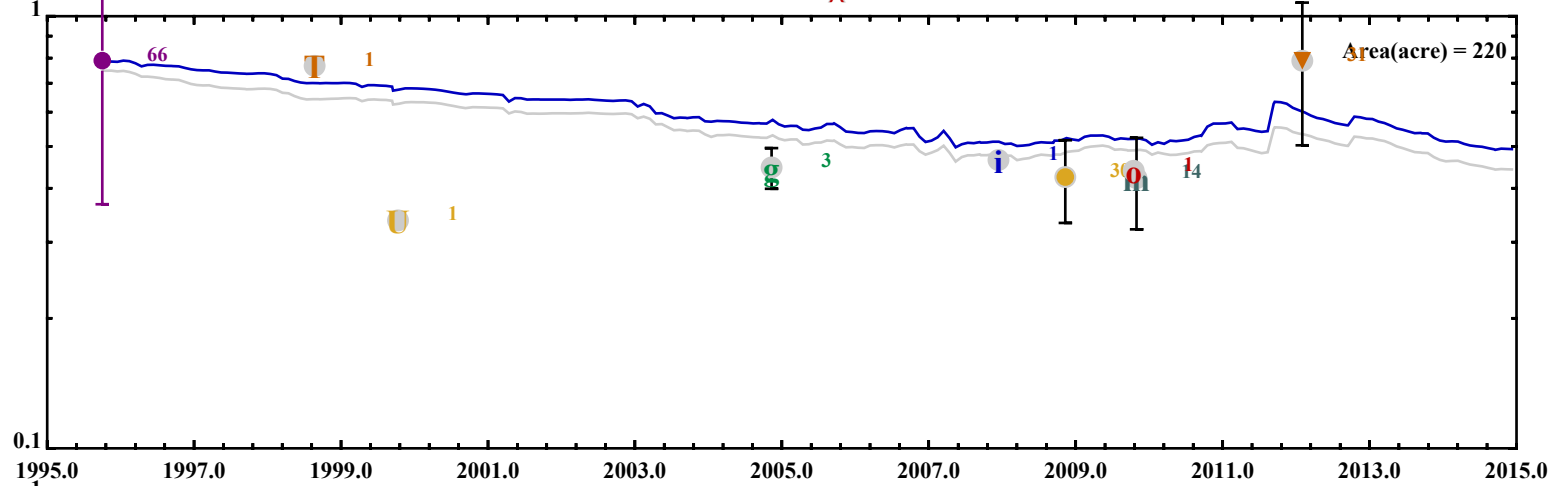
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

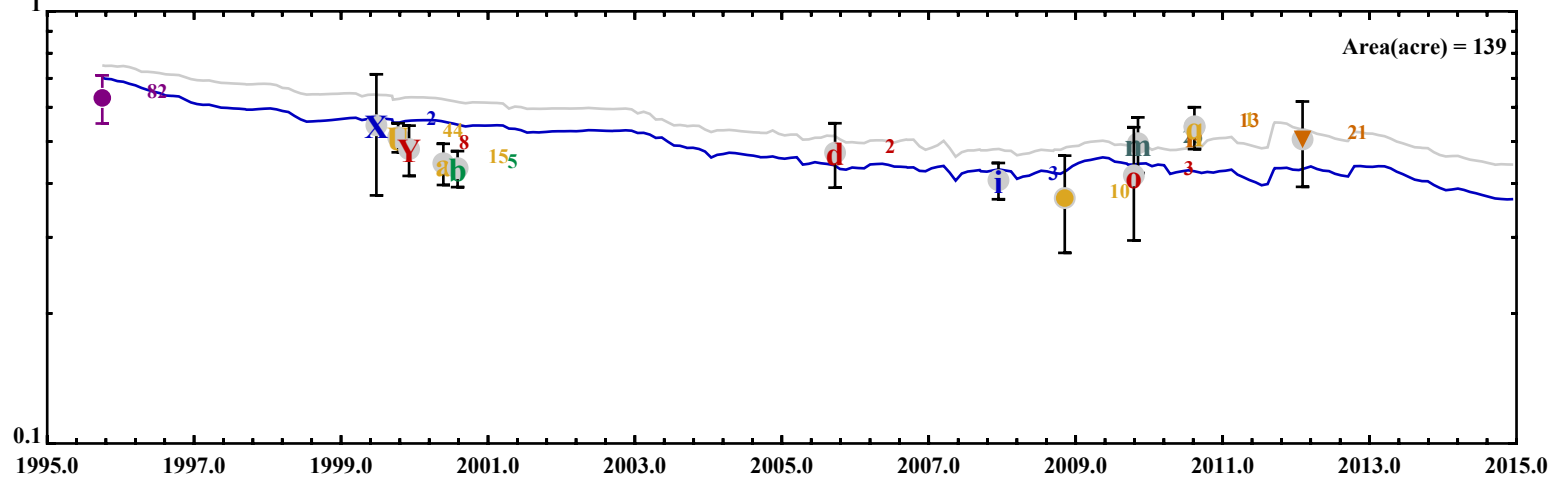
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

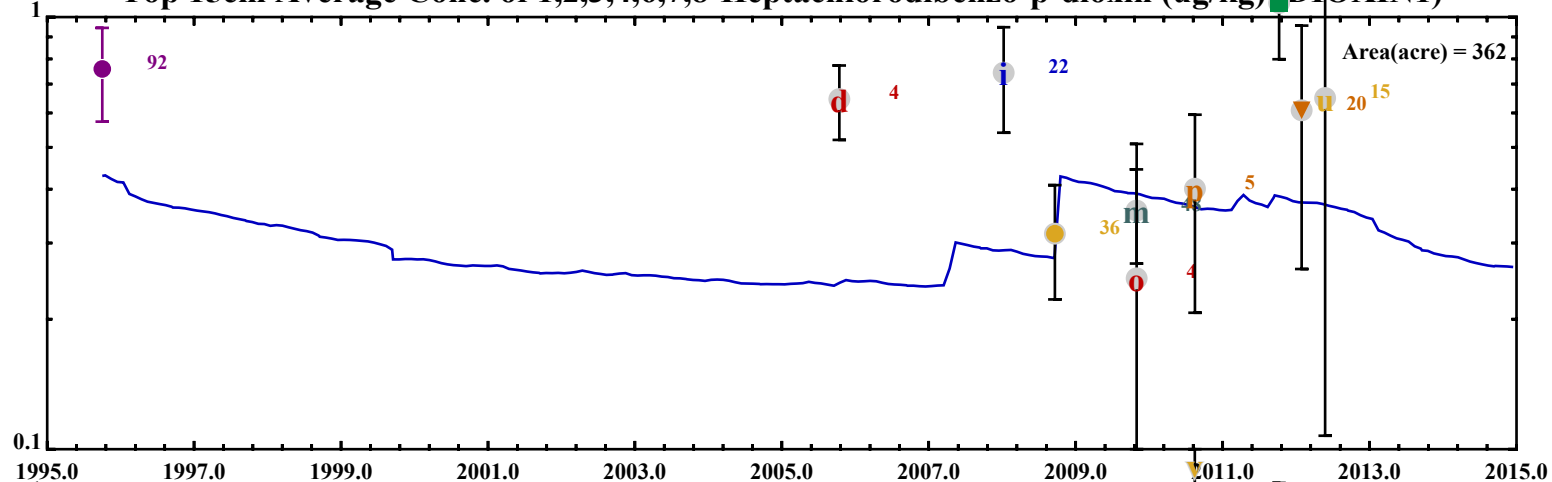


Time (Years)

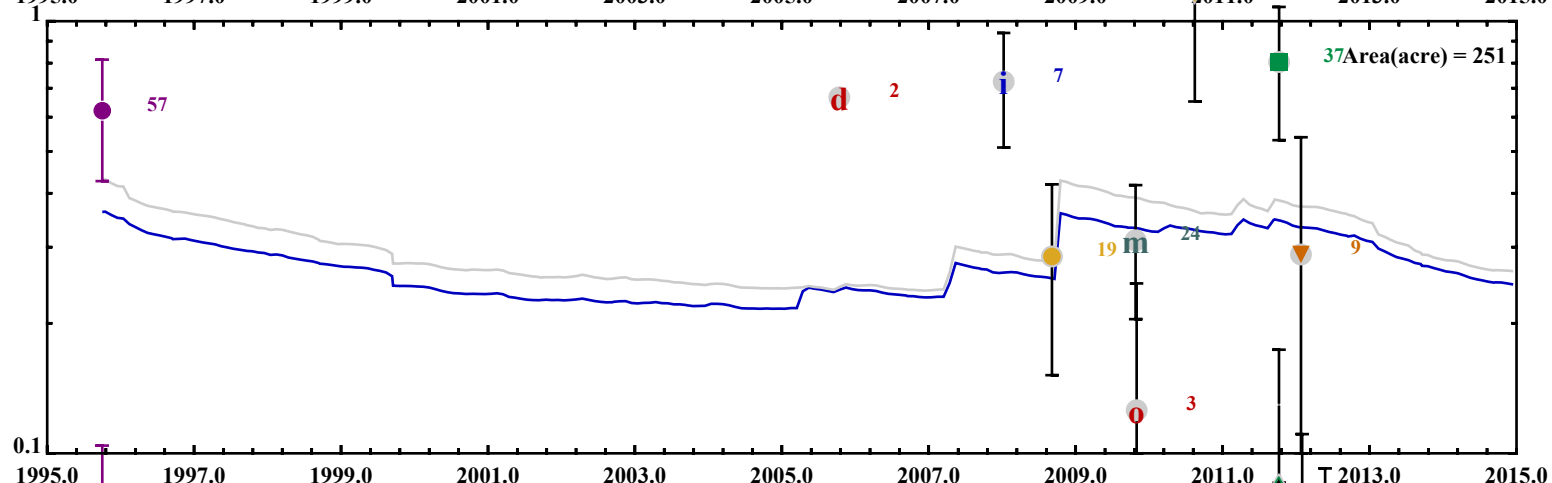
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

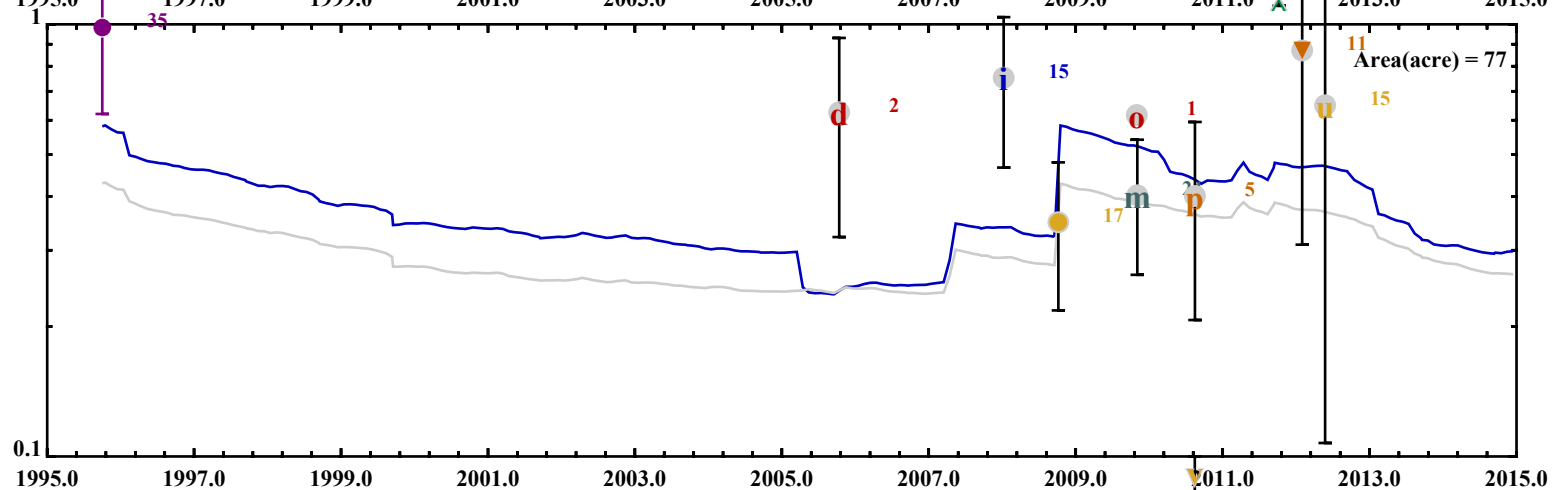
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)



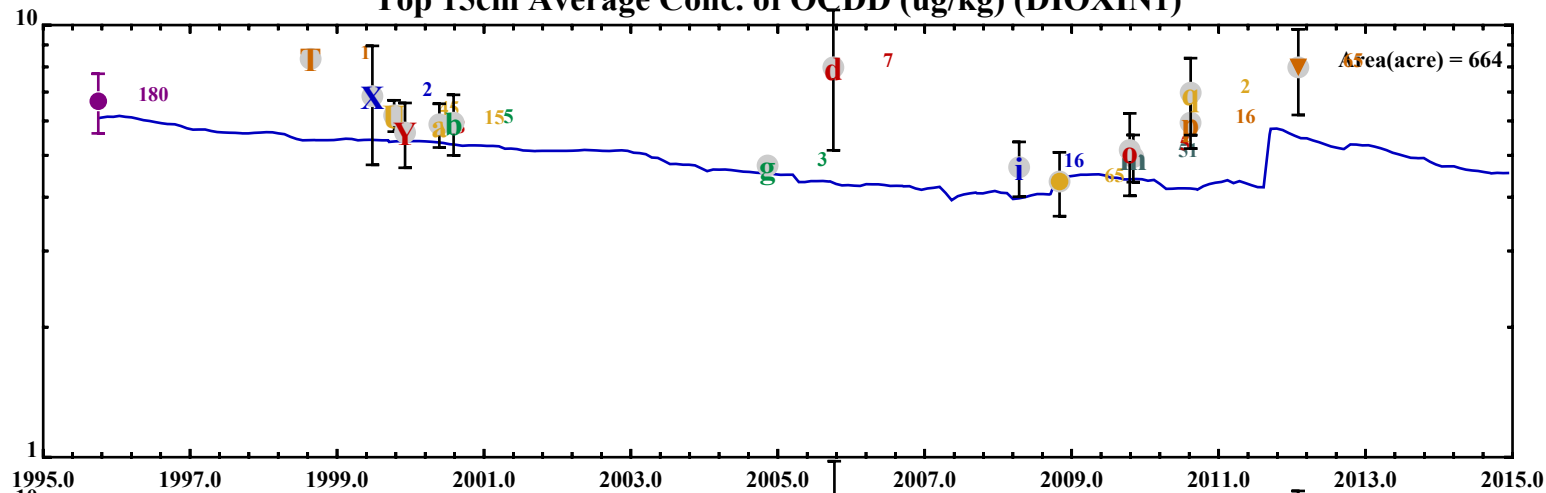
Time (Years)

- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

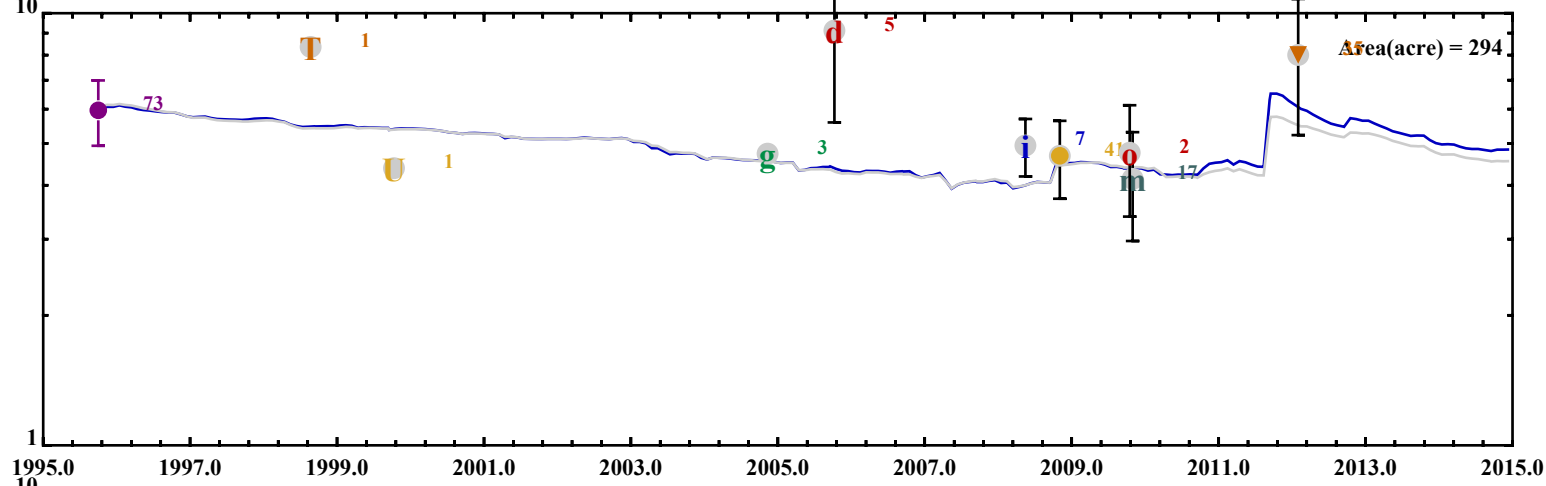
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

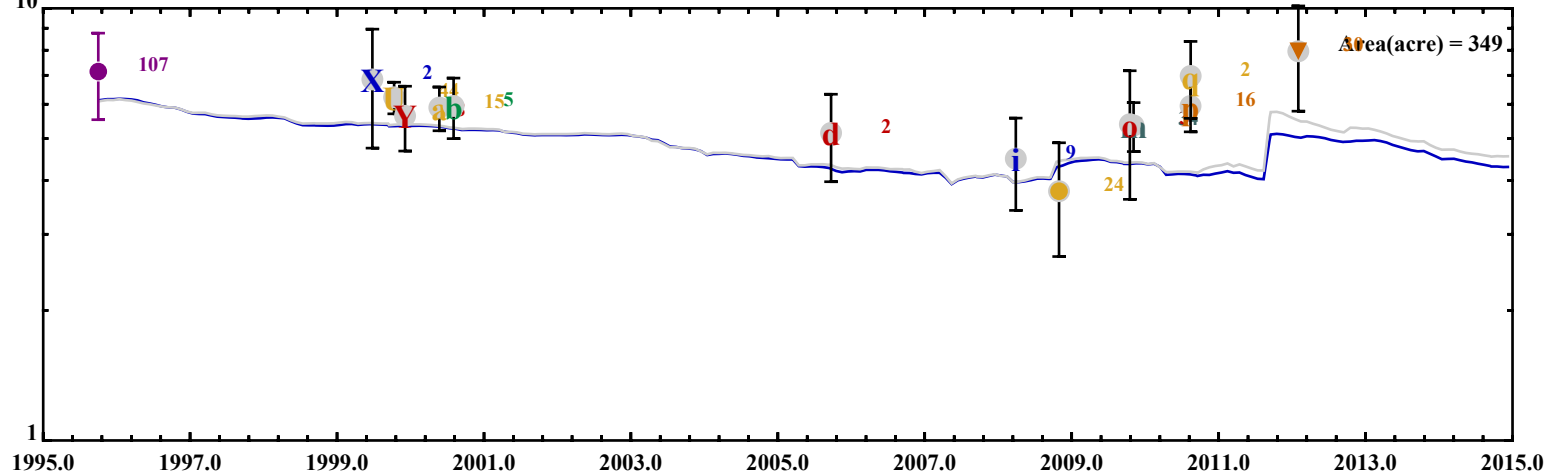
RM 0-8



RM 0-8 (Channel)



RM 0-8 (Shoal)



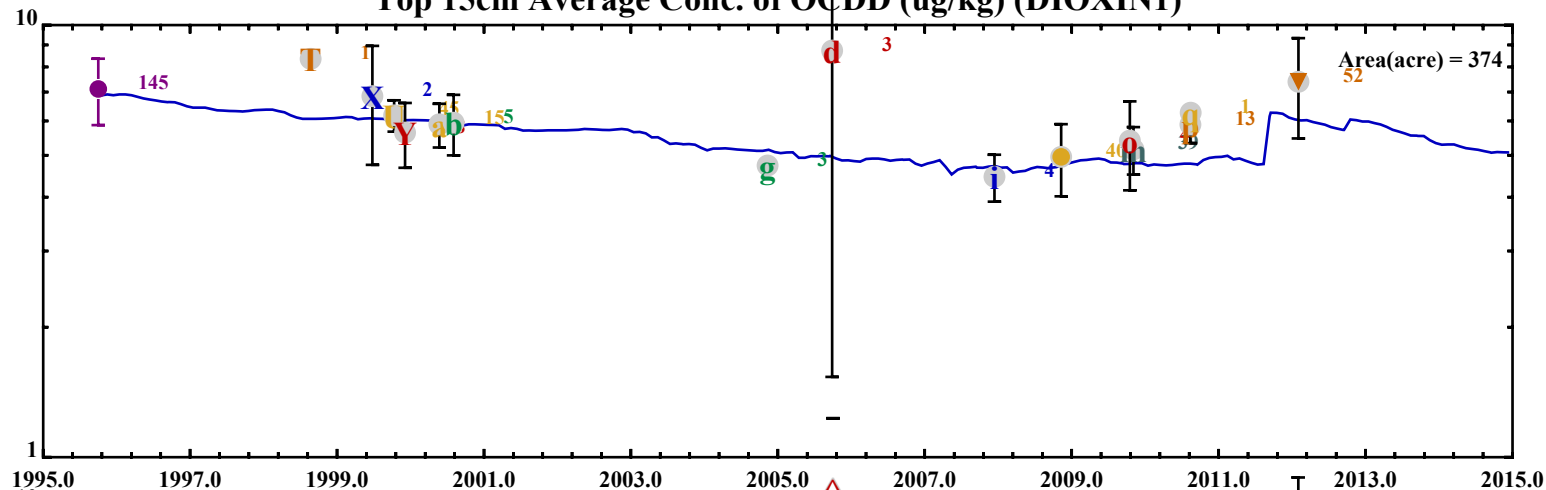
Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

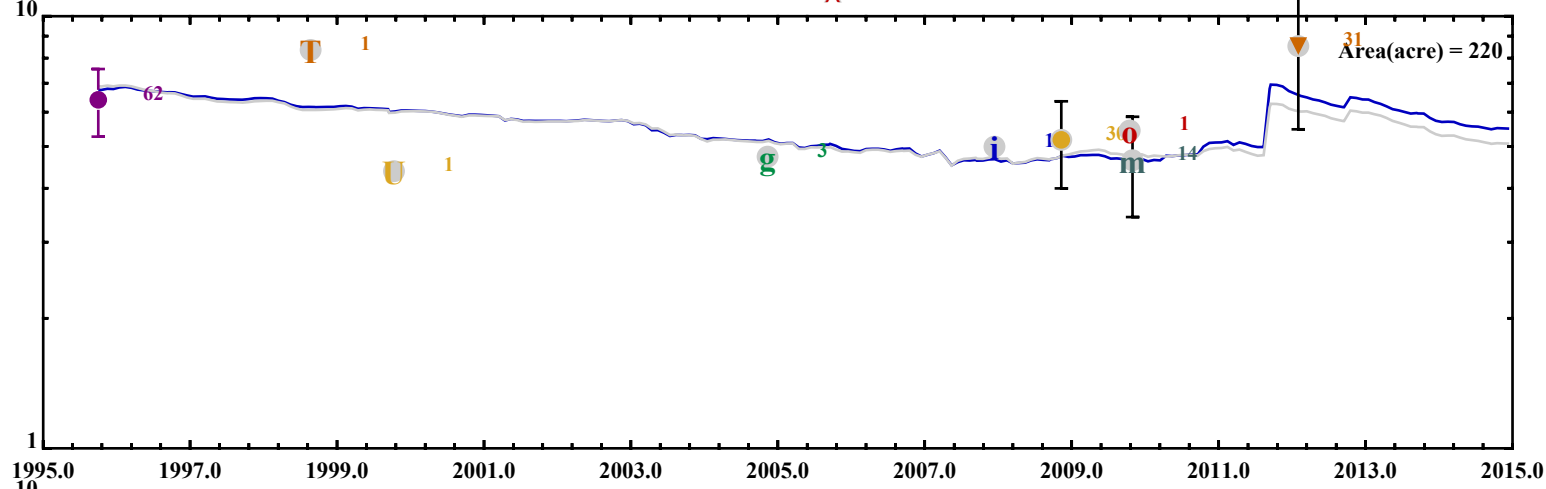
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

### Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

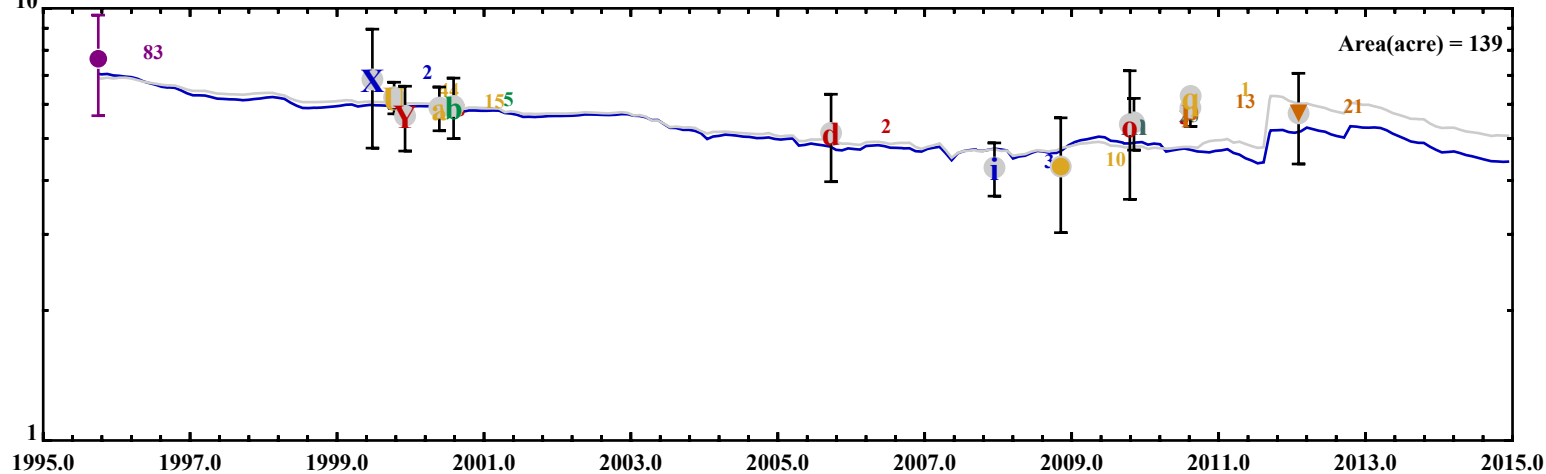
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)



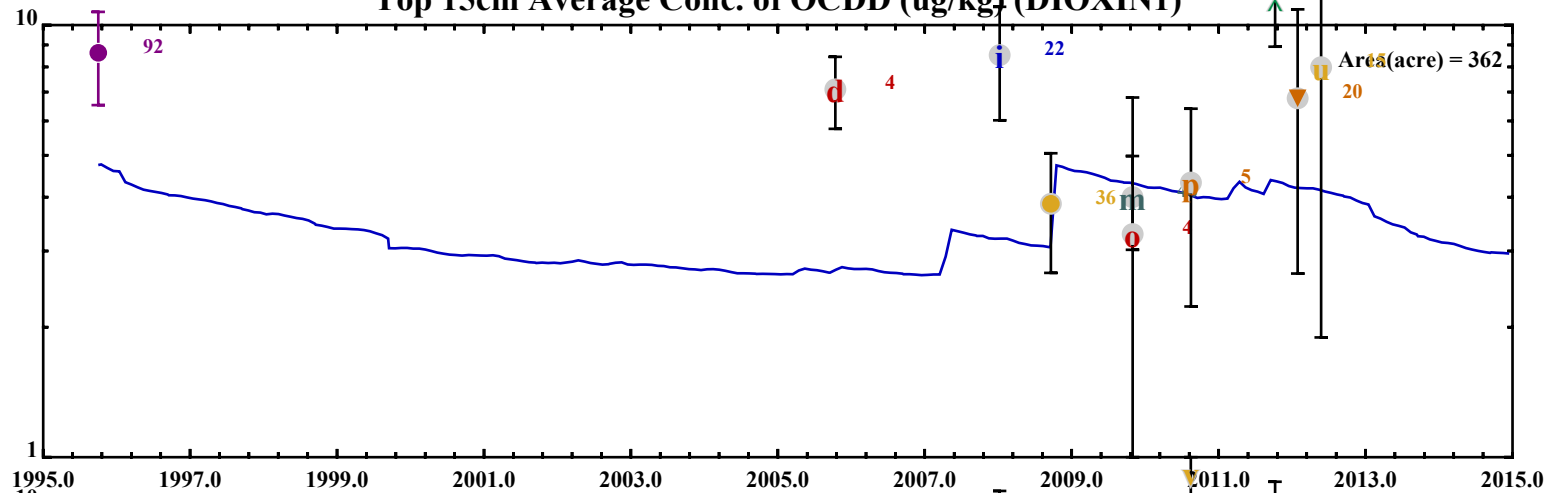
Time (Years)

- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

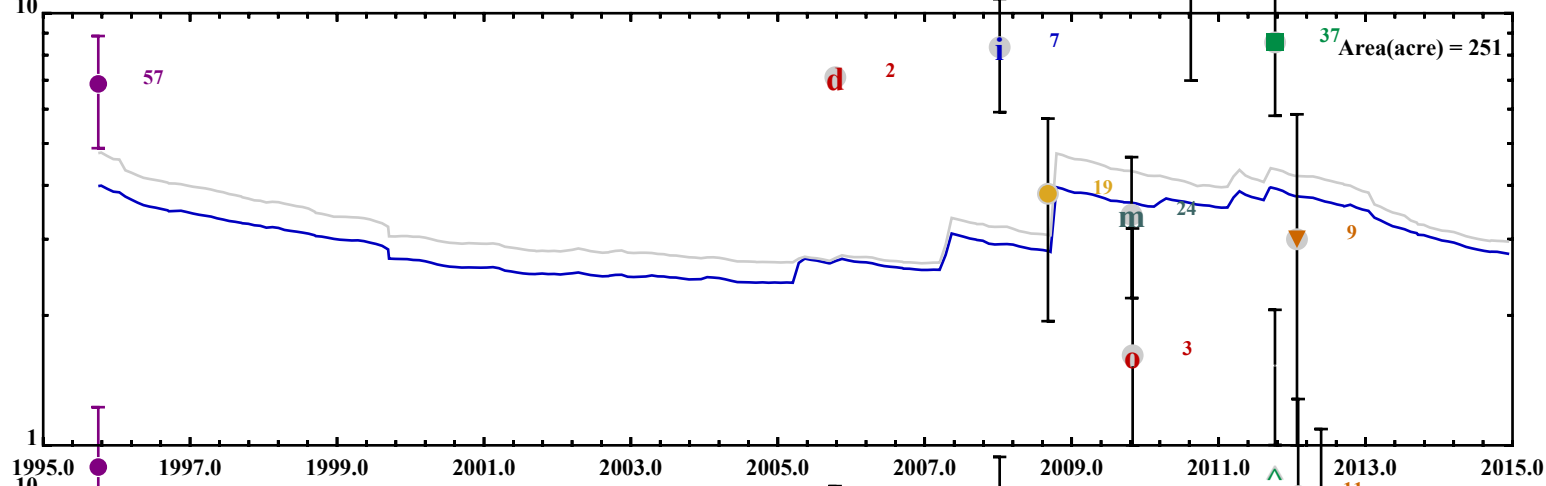


# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

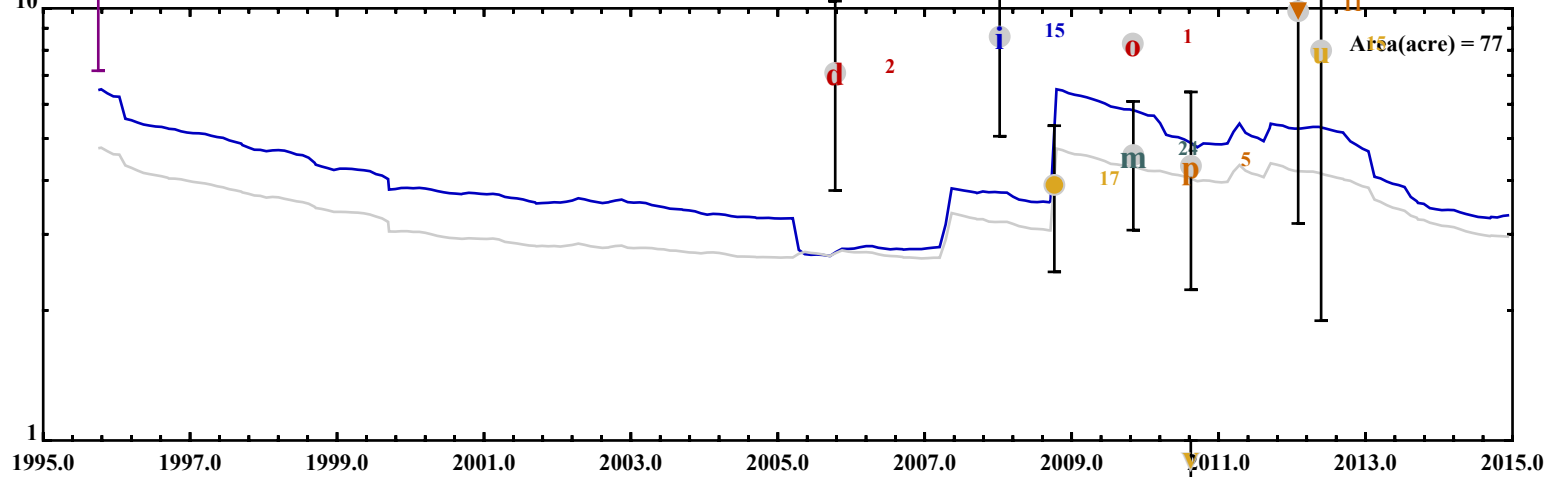
RM 8-17



RM 8-17 (Channel)



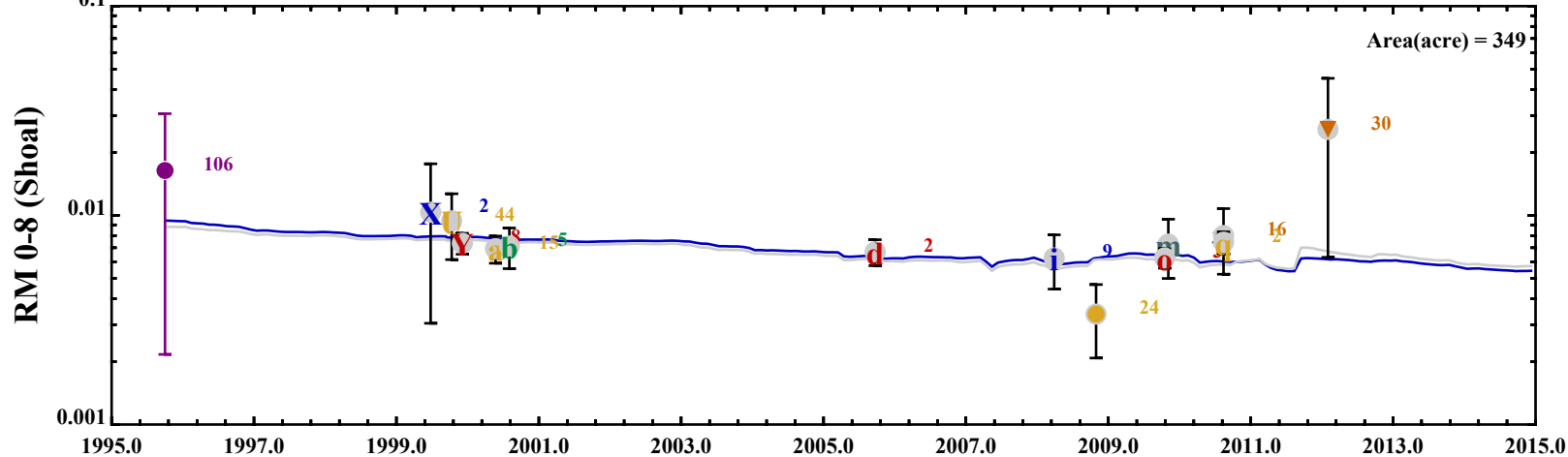
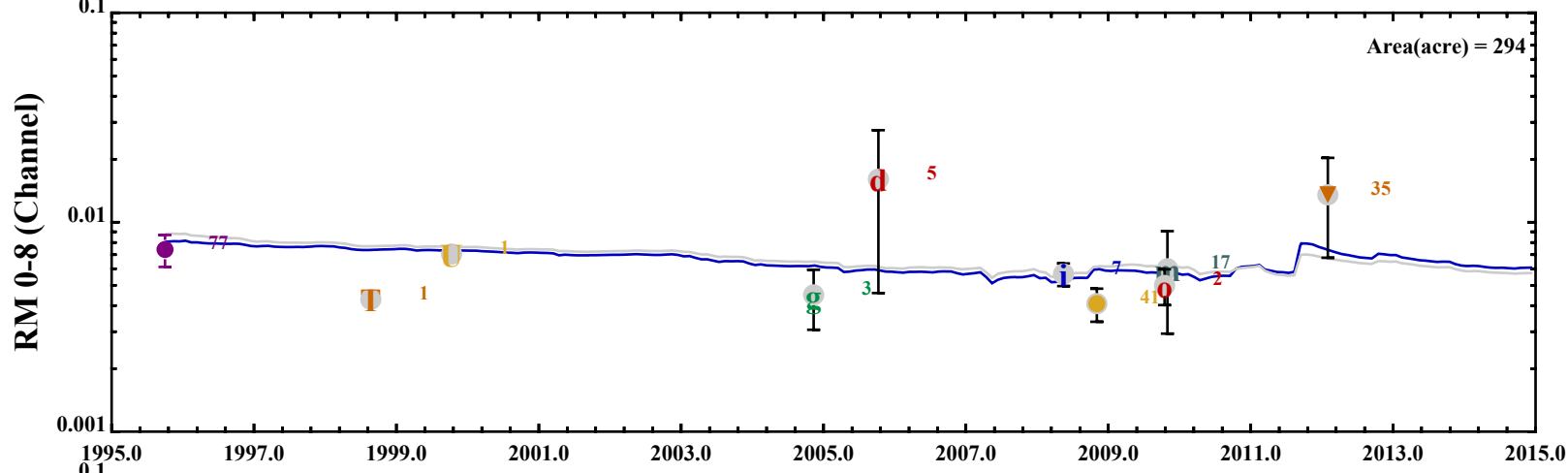
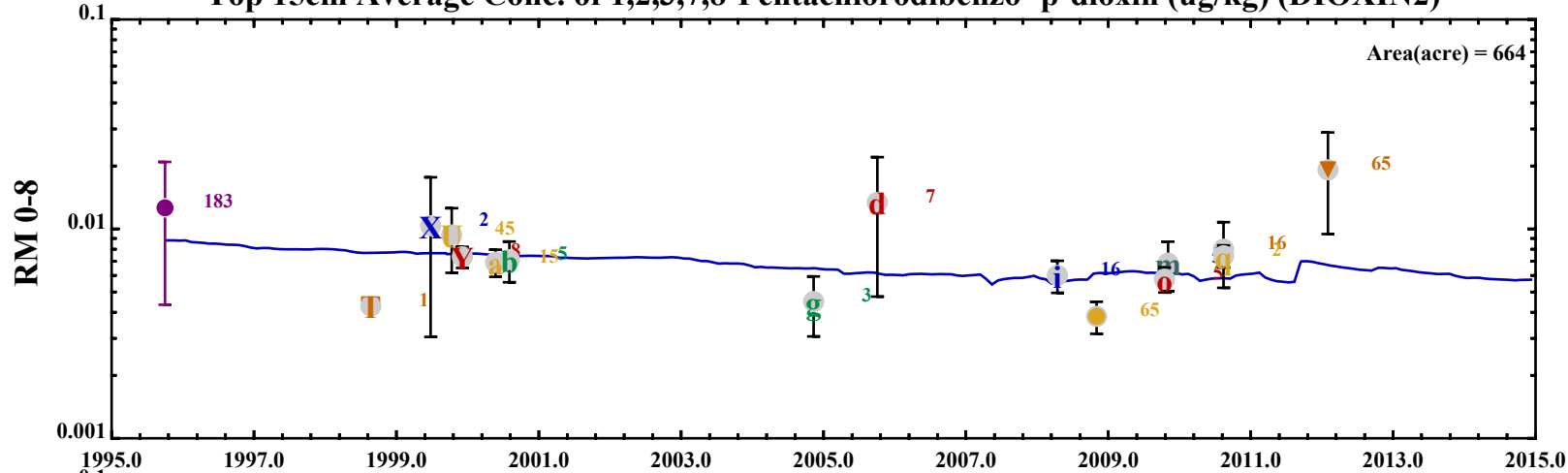
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

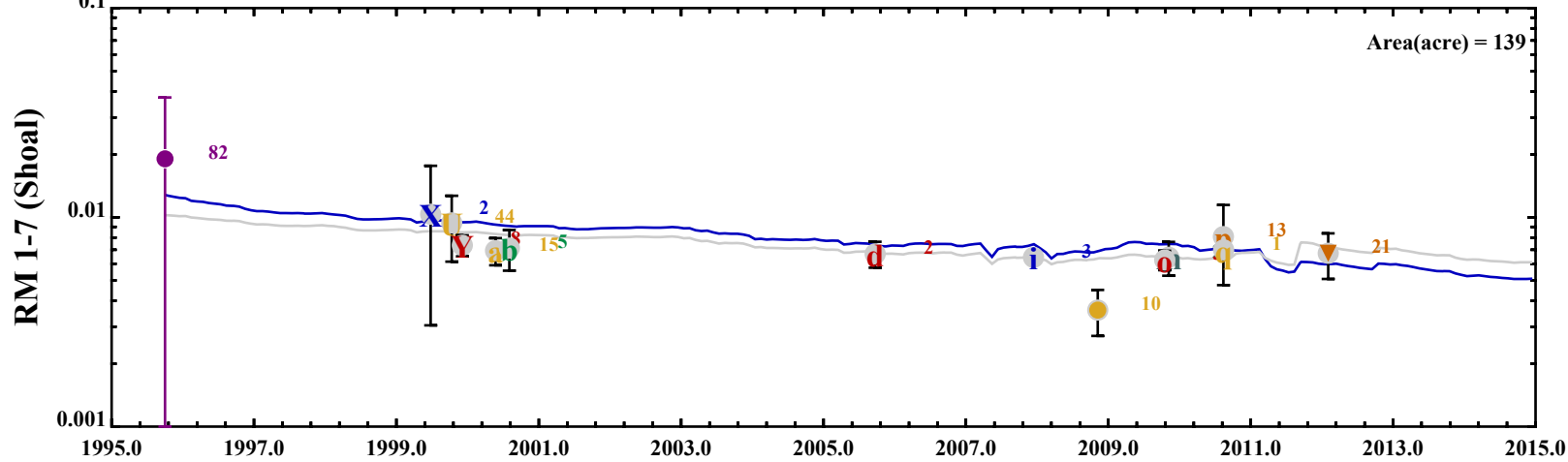
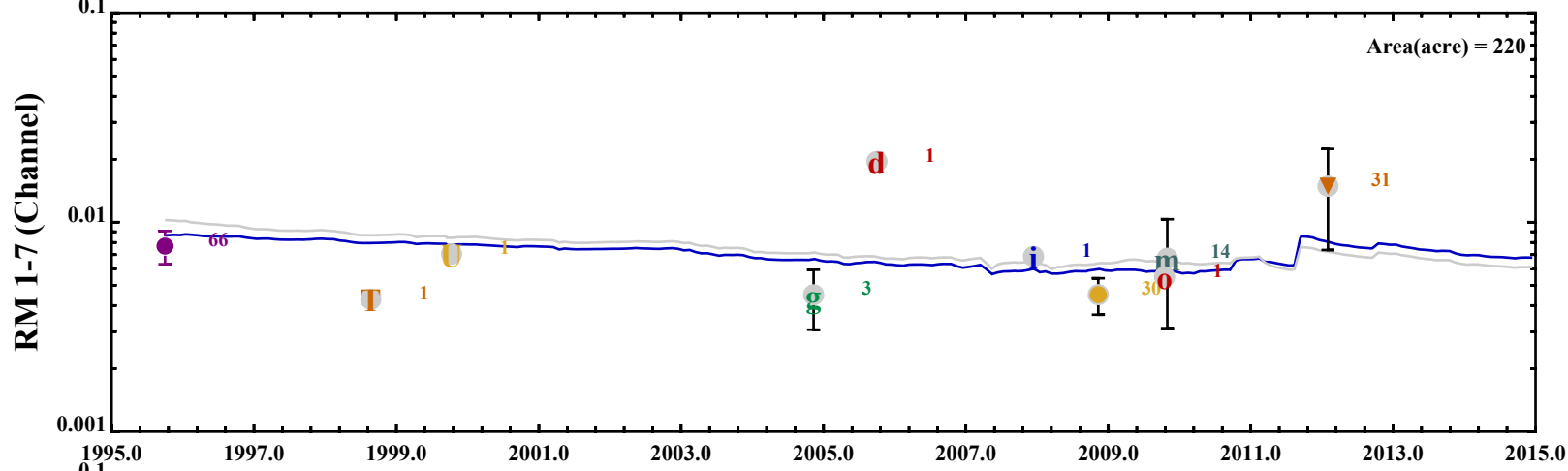
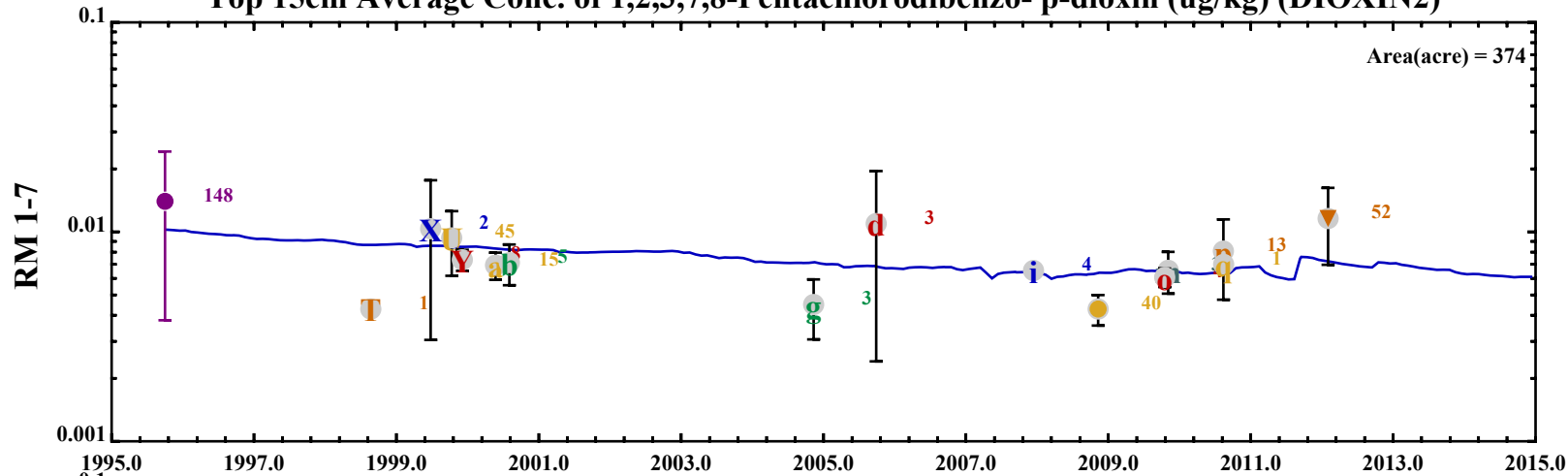
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- ● 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- ■ 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

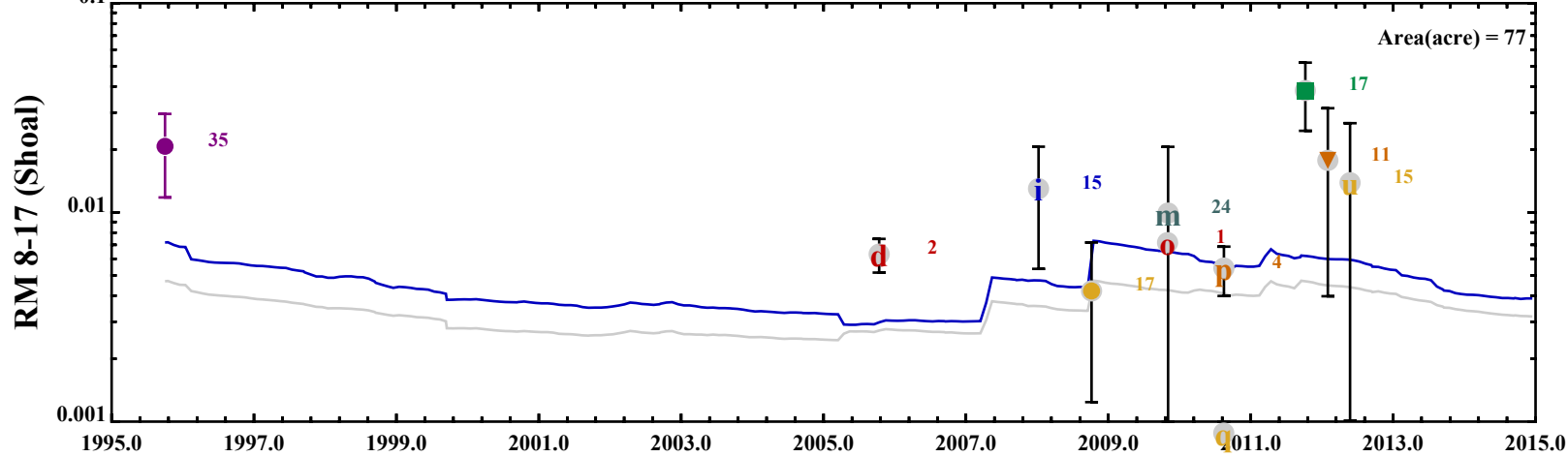
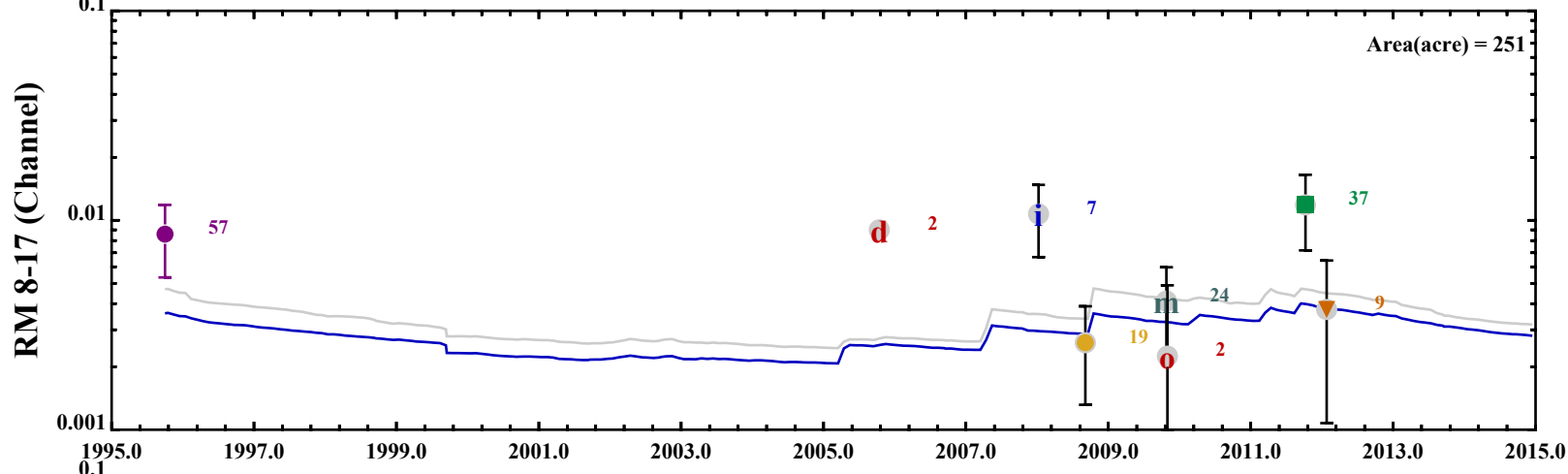
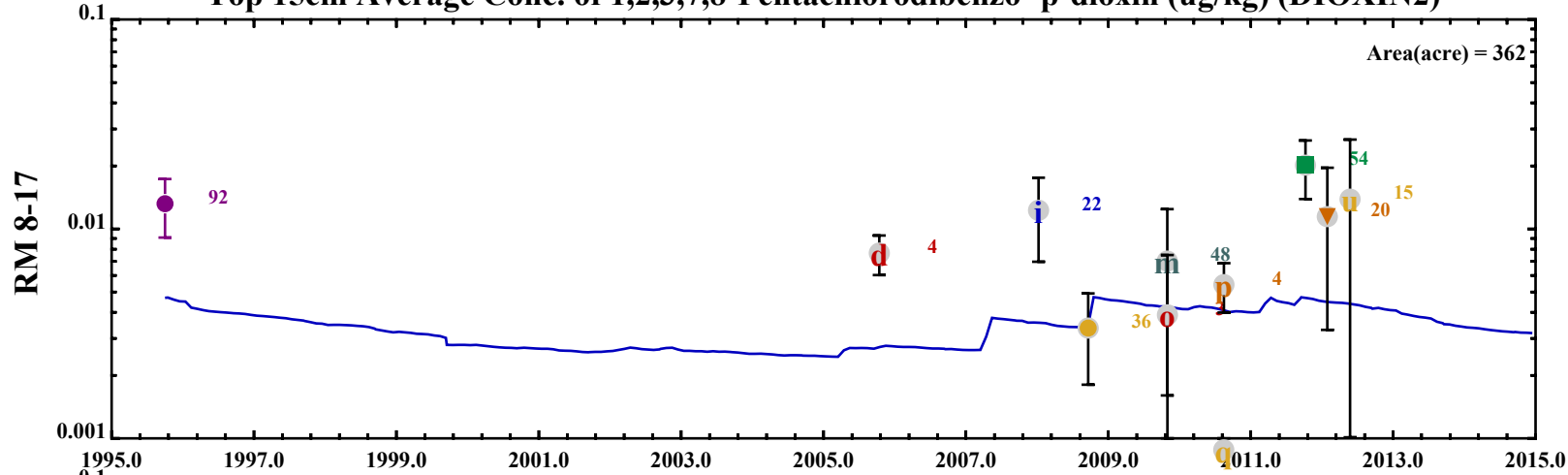
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)

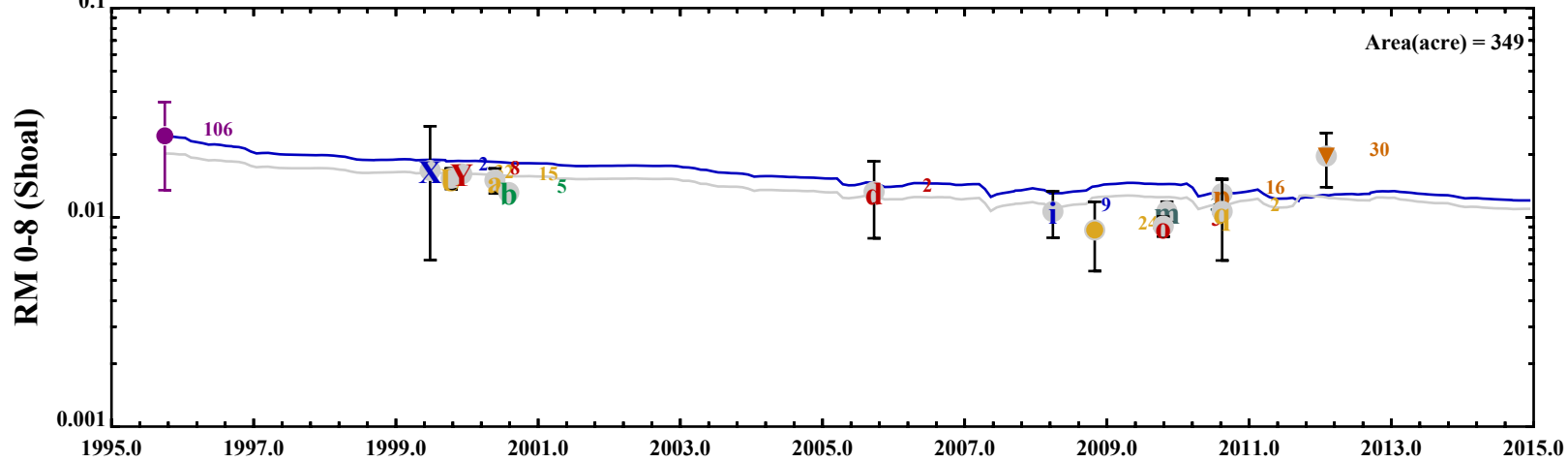
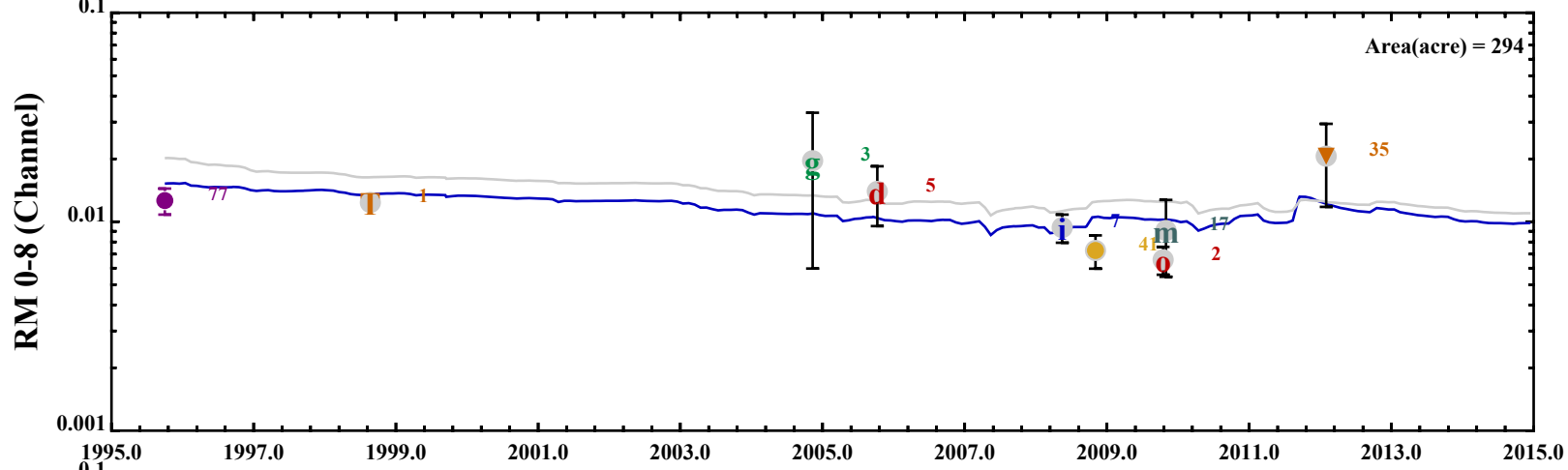
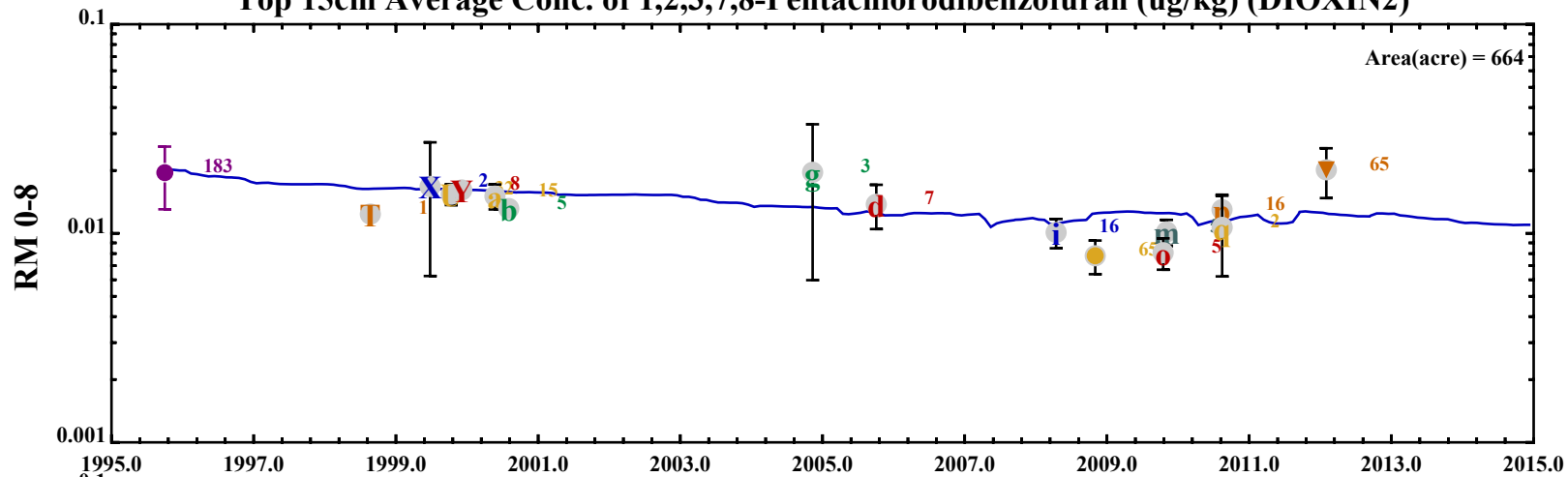


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

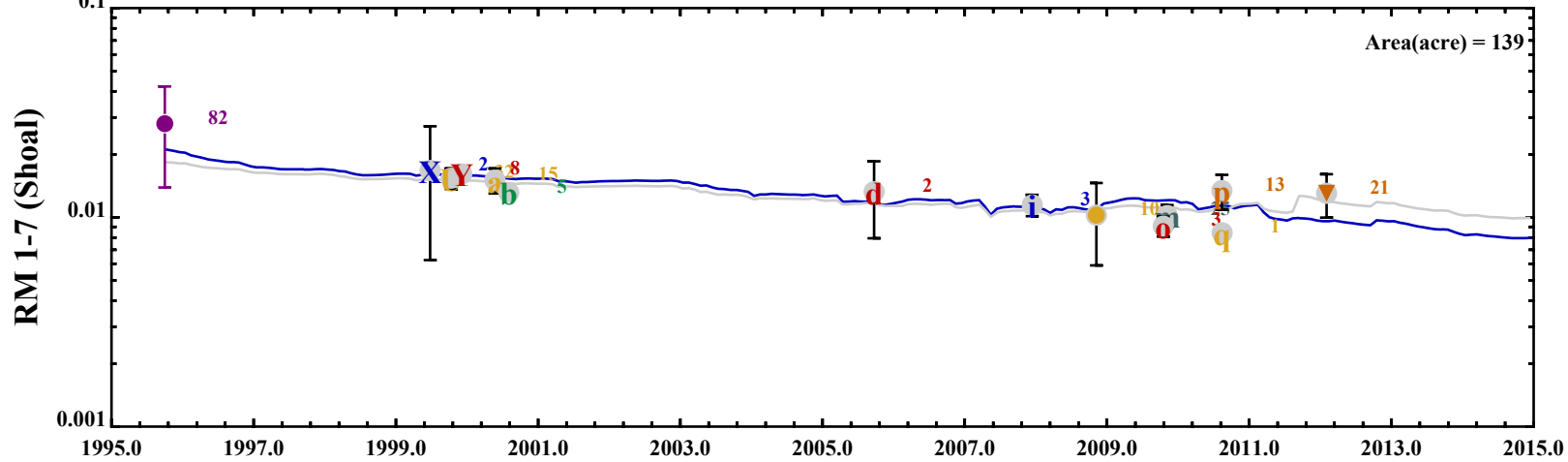
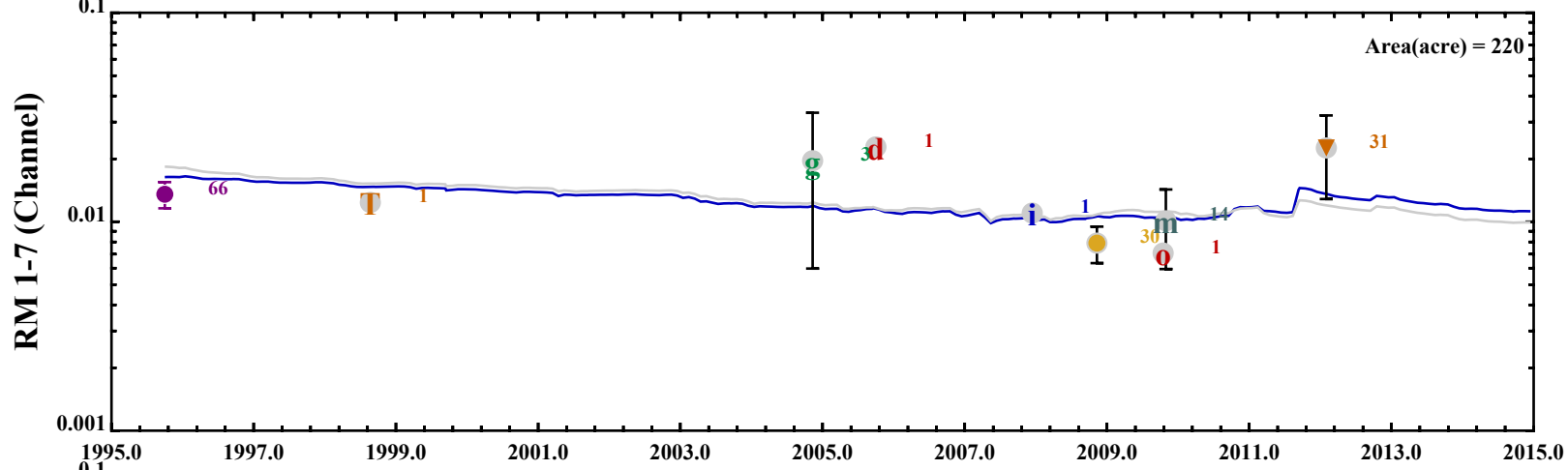
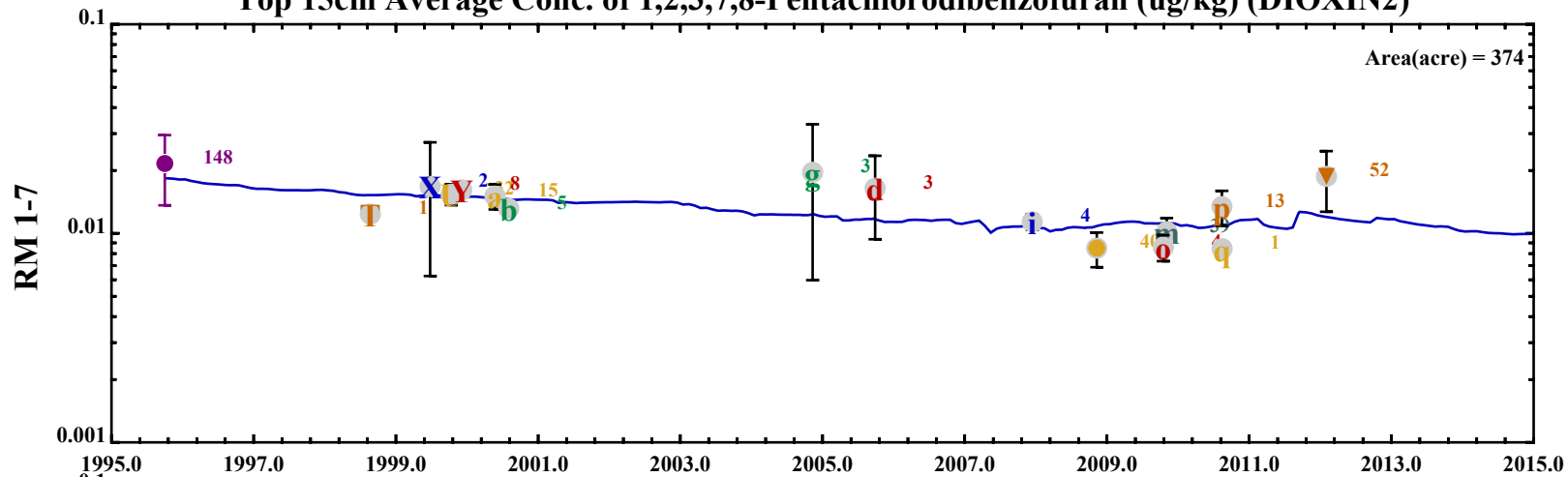


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
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- 1994 Surficial Sediment Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- ■ 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

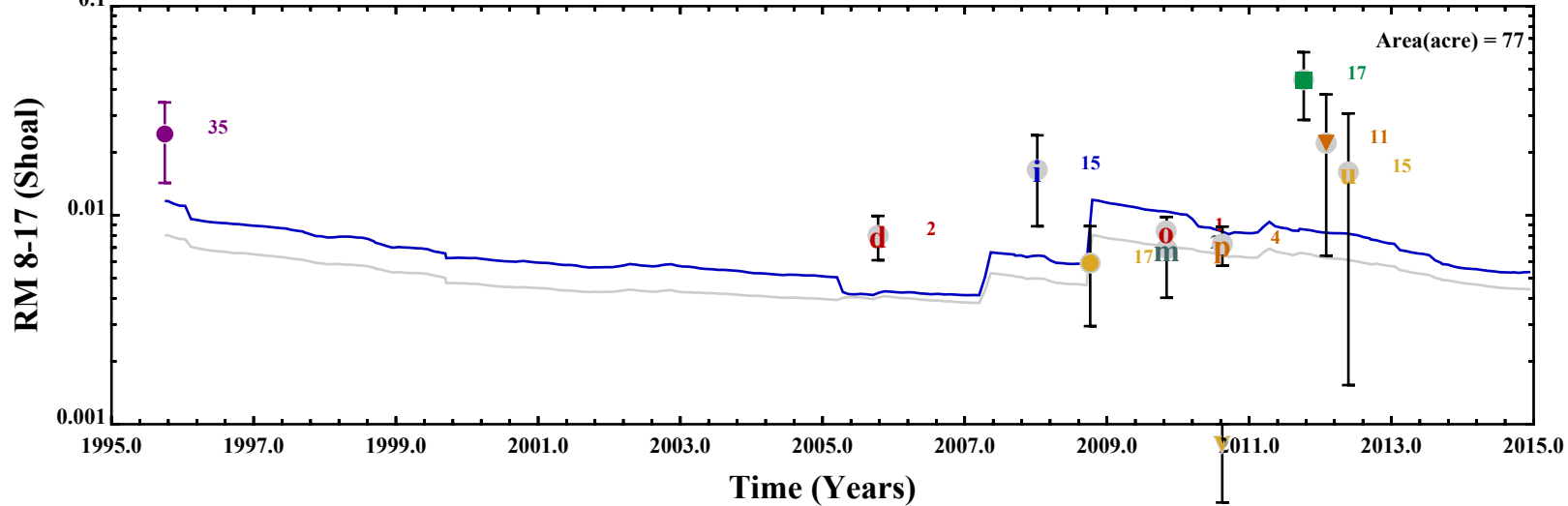
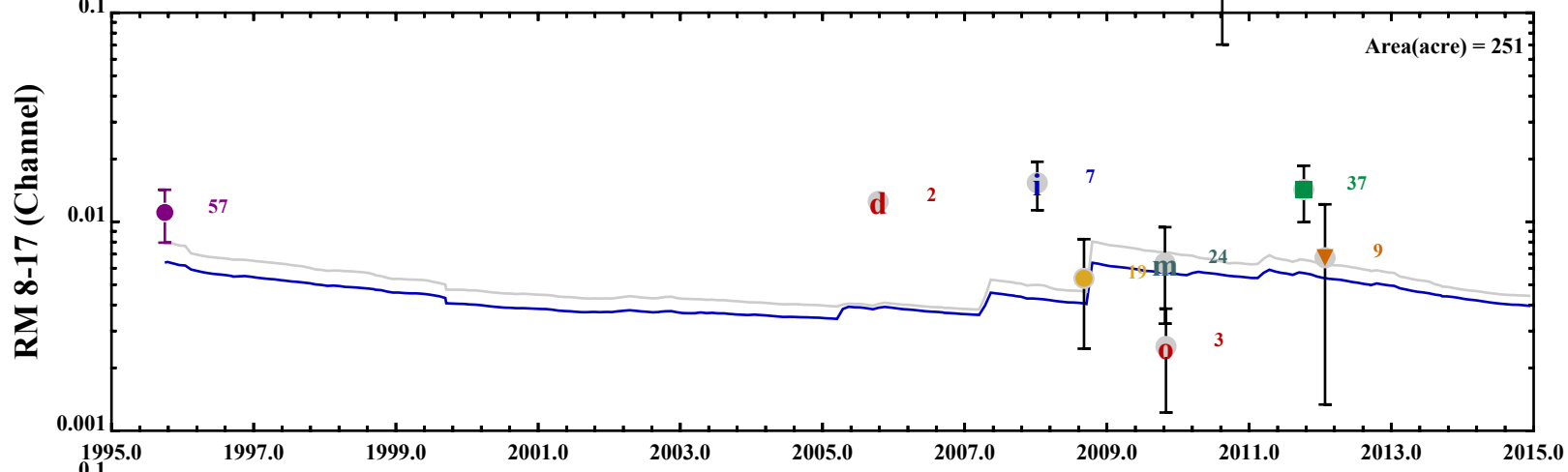
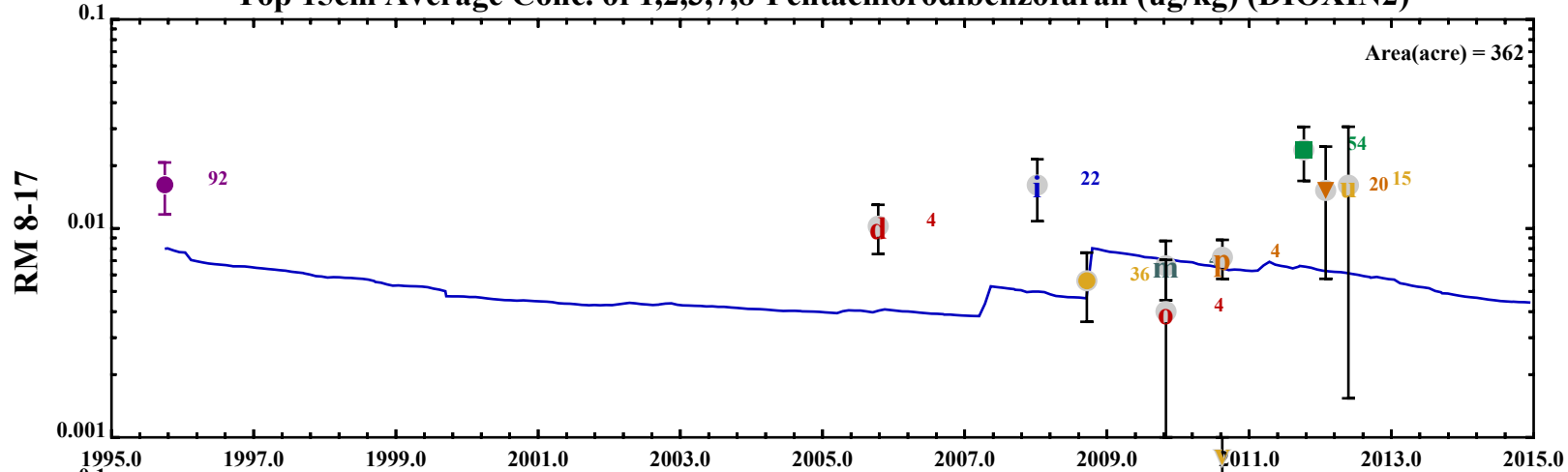
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
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  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

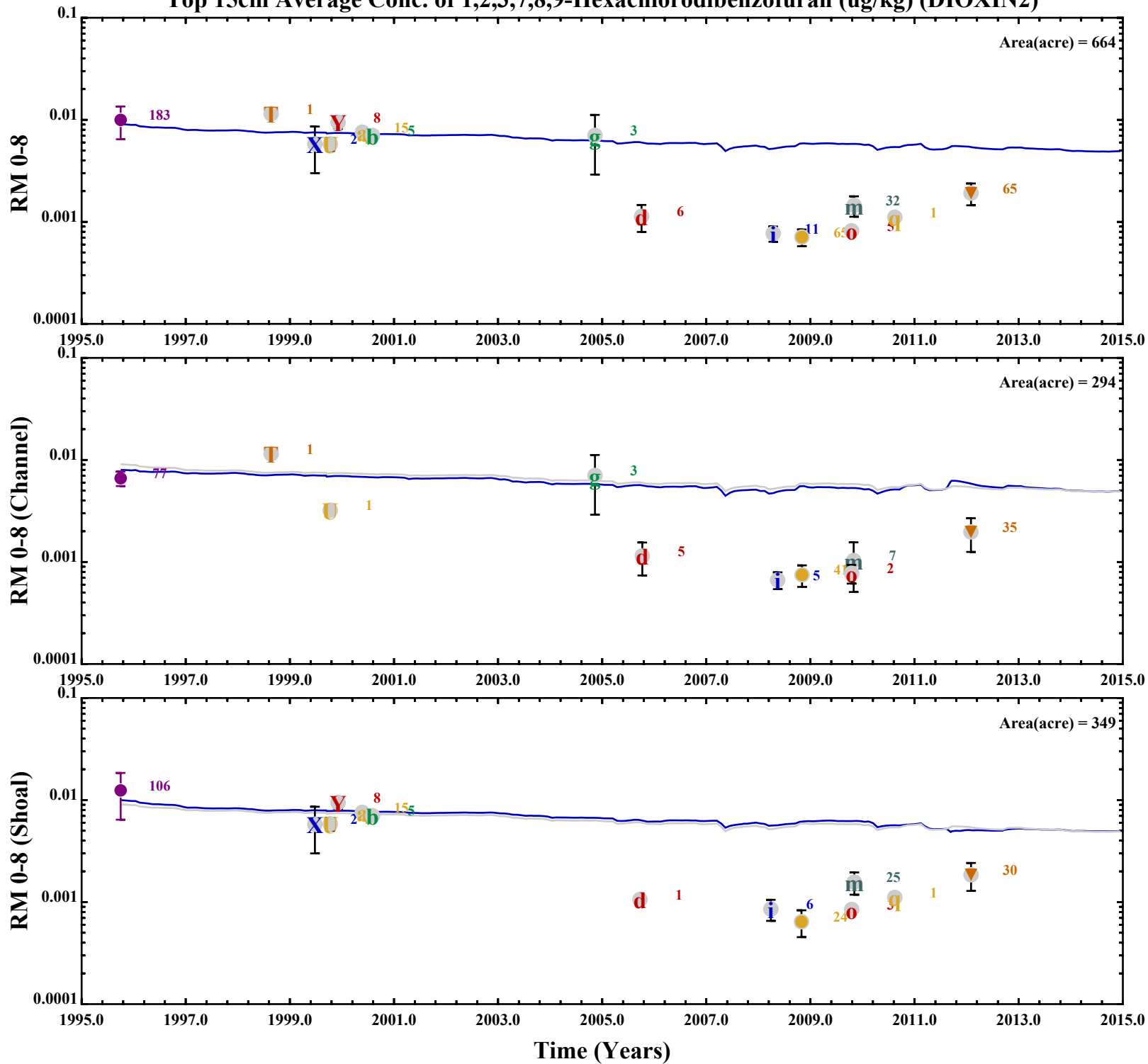
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
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- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

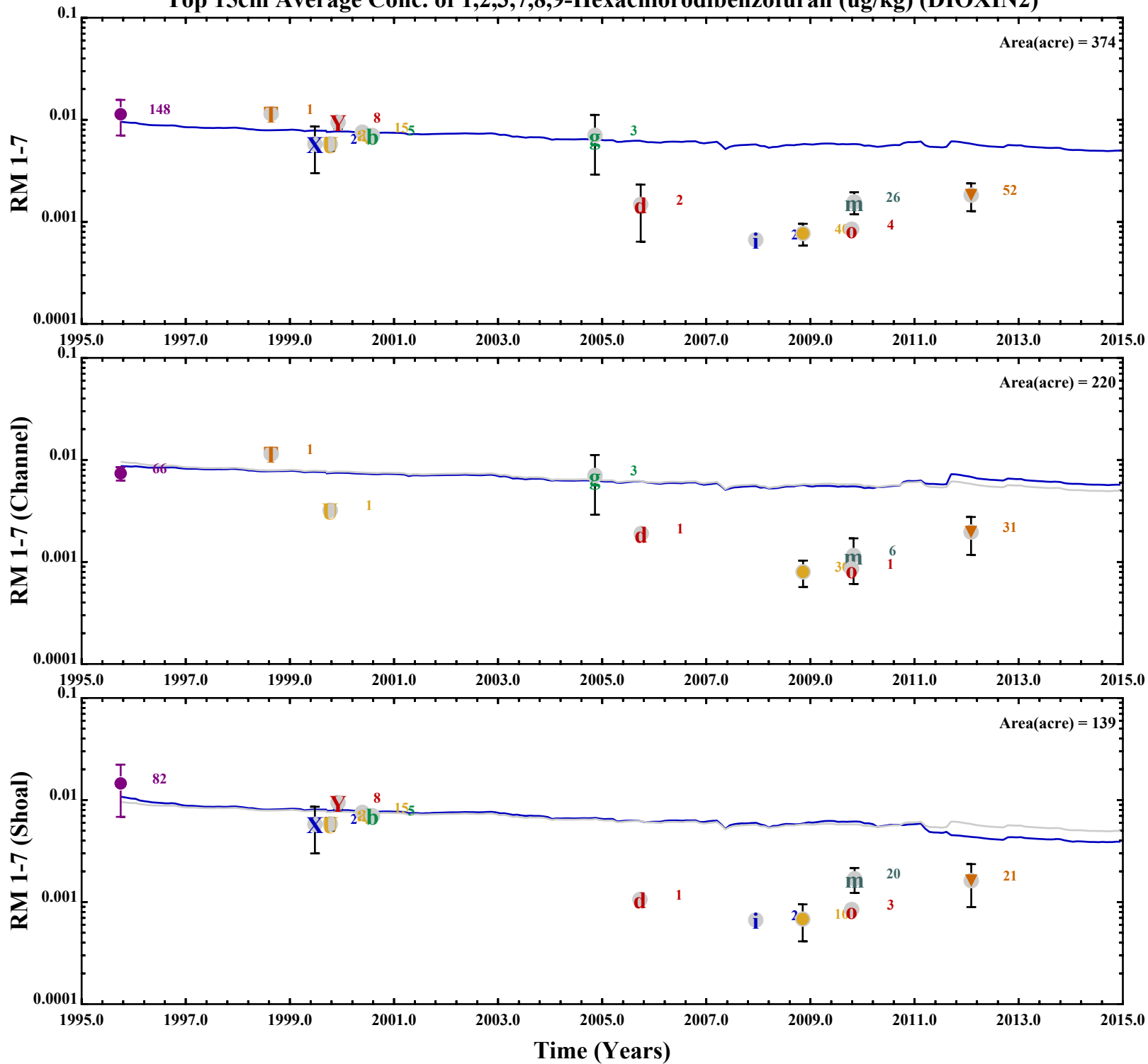
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
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  - c 2005 MPI - Newark Bay Phase I Oversight
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  - d 2005 USEPA-MPI High Res Sediment Core
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  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
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  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)



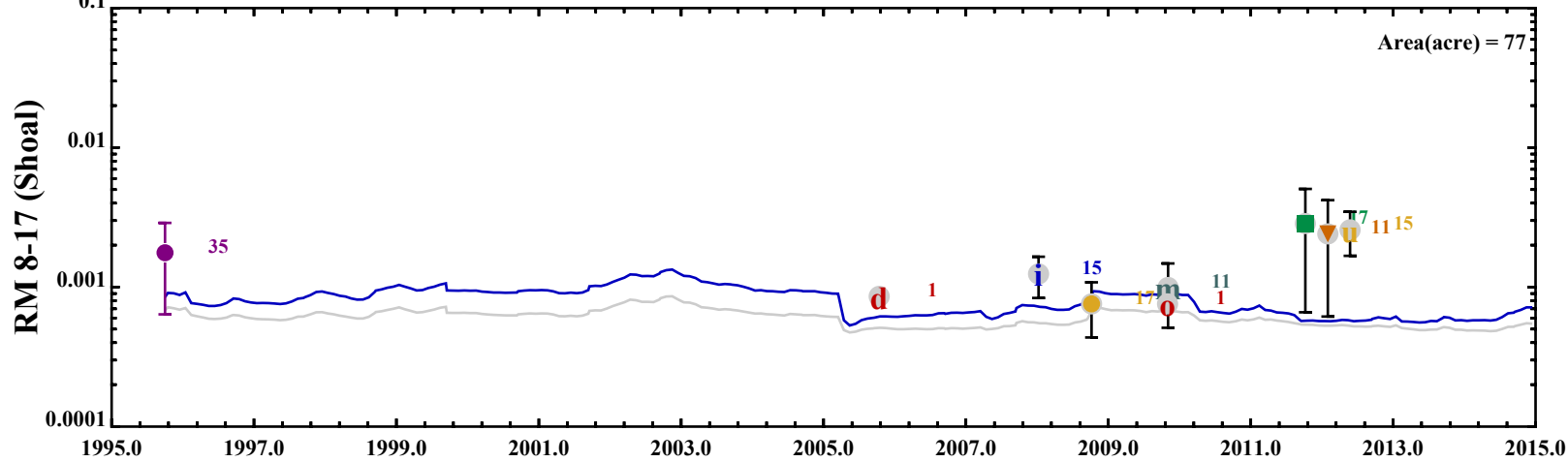
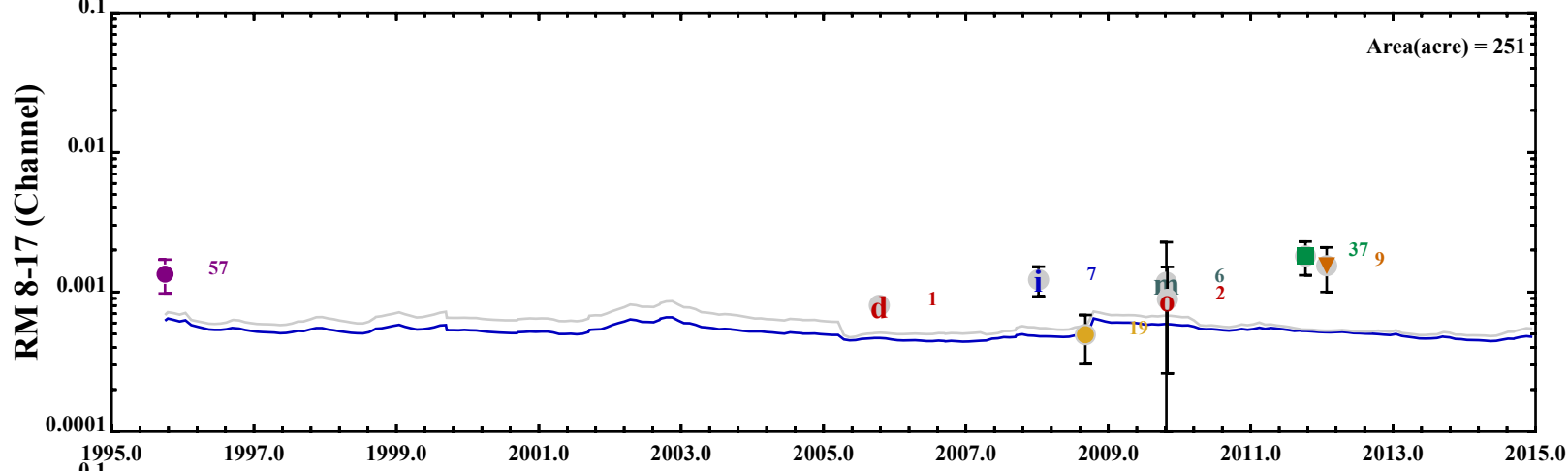
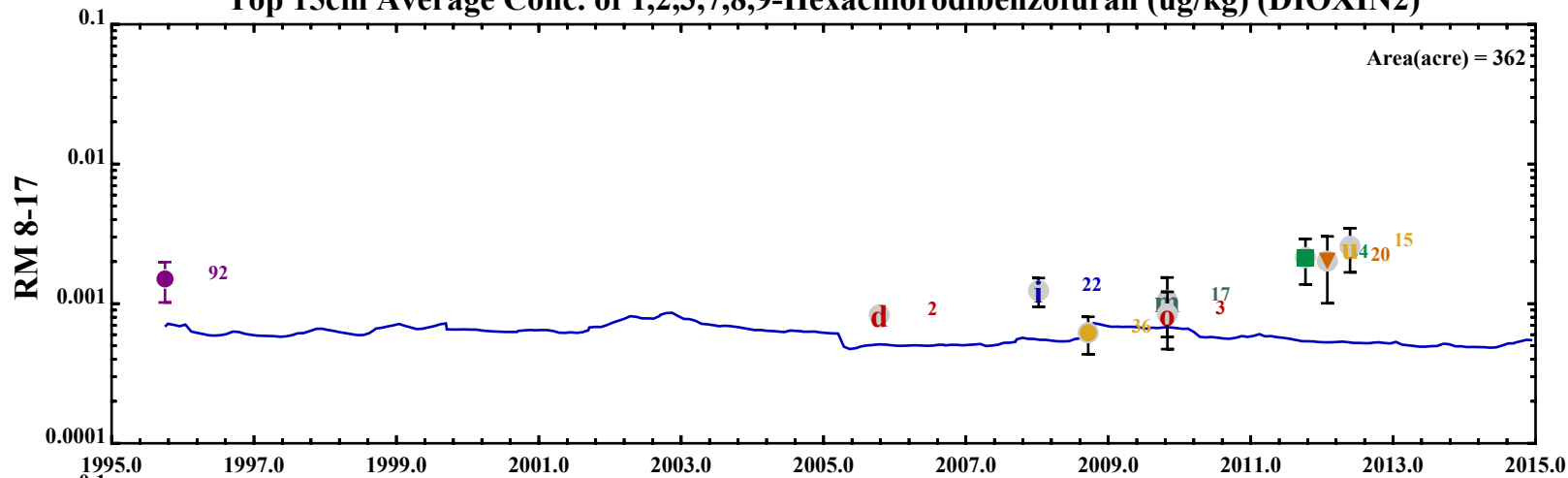
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

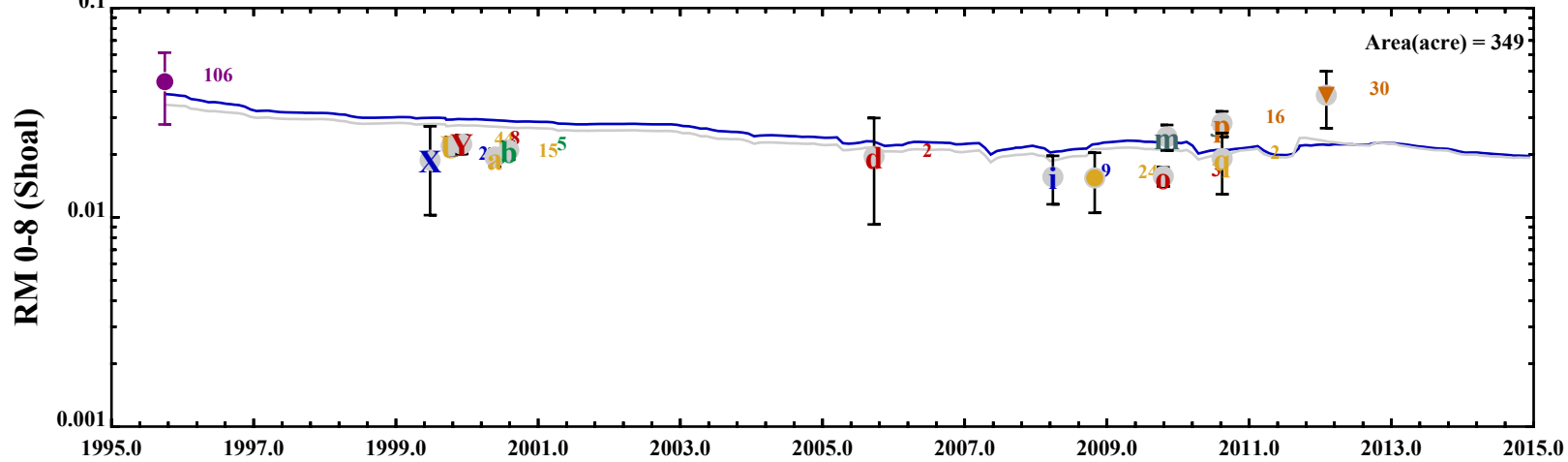
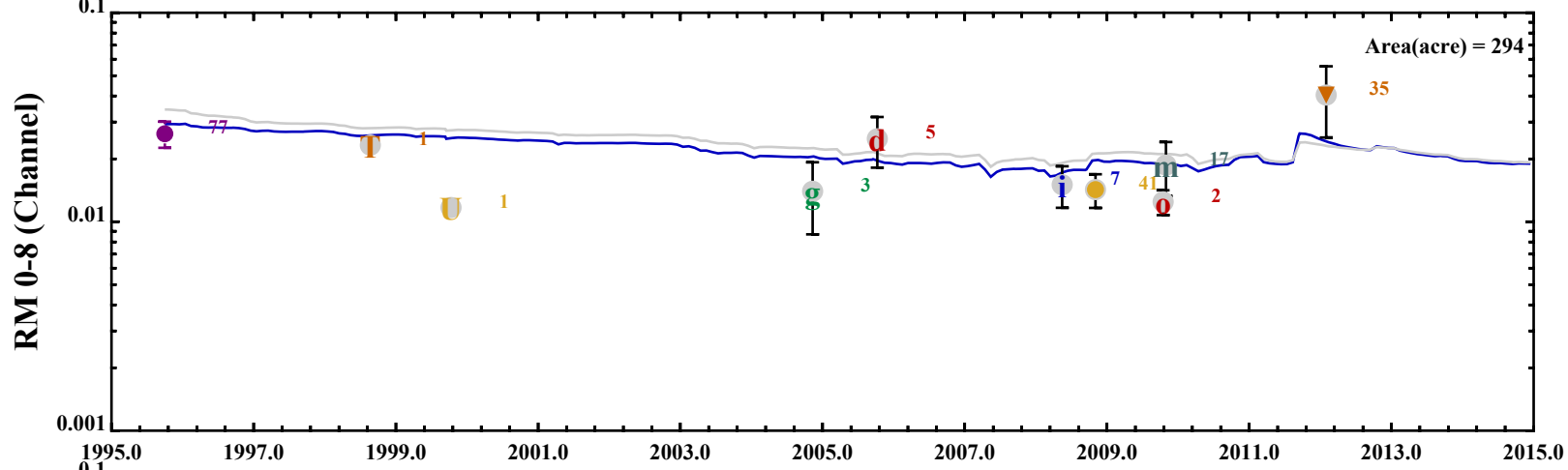
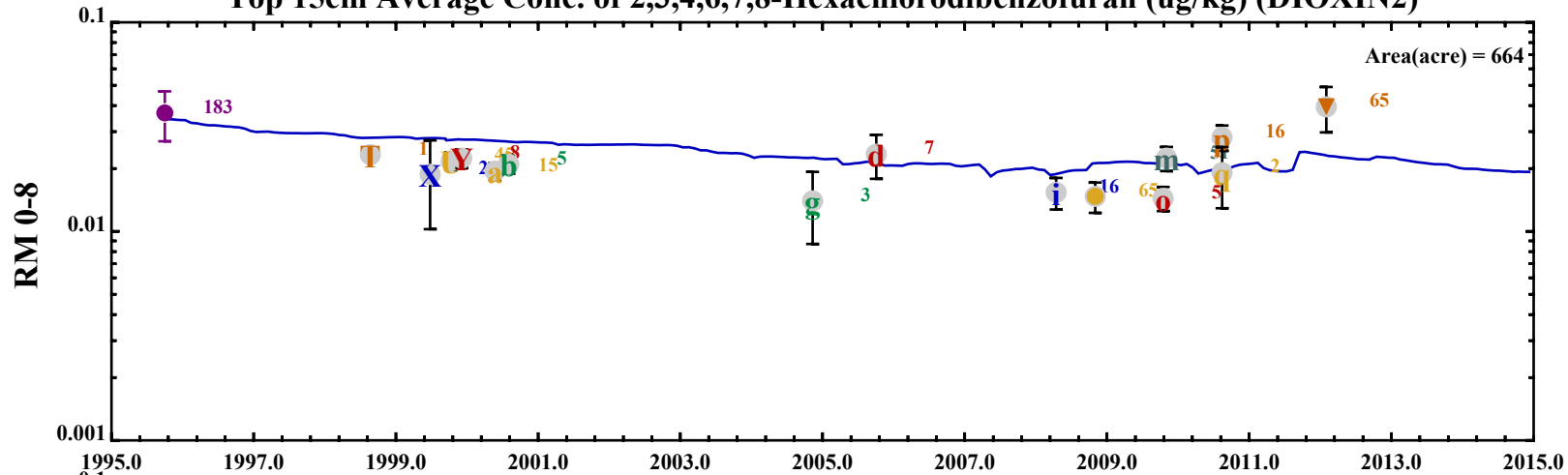


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

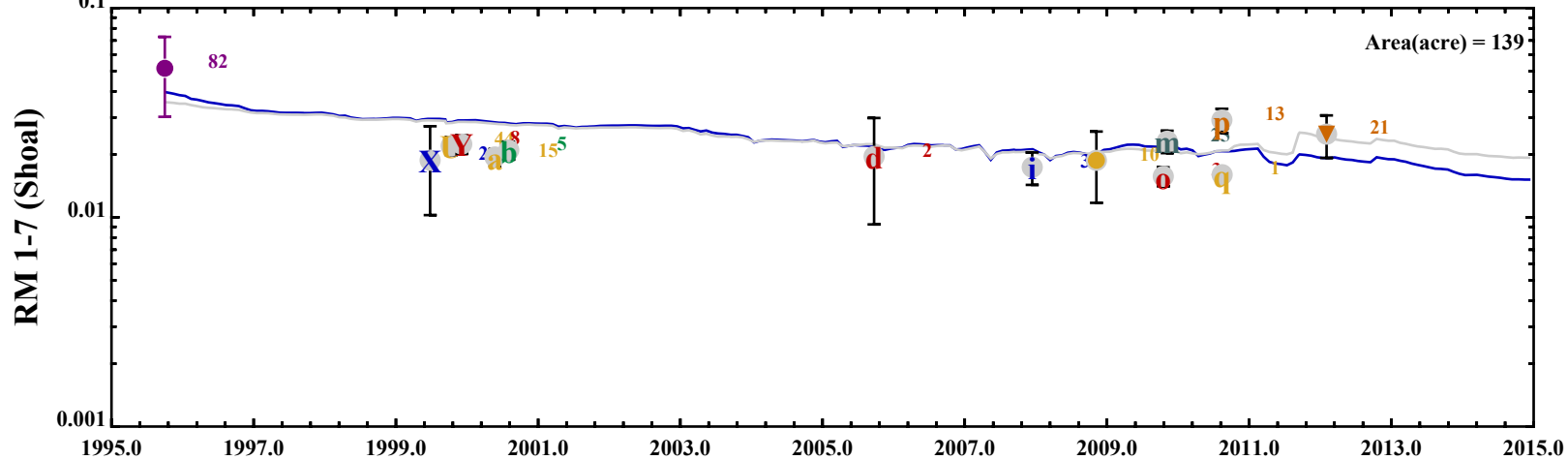
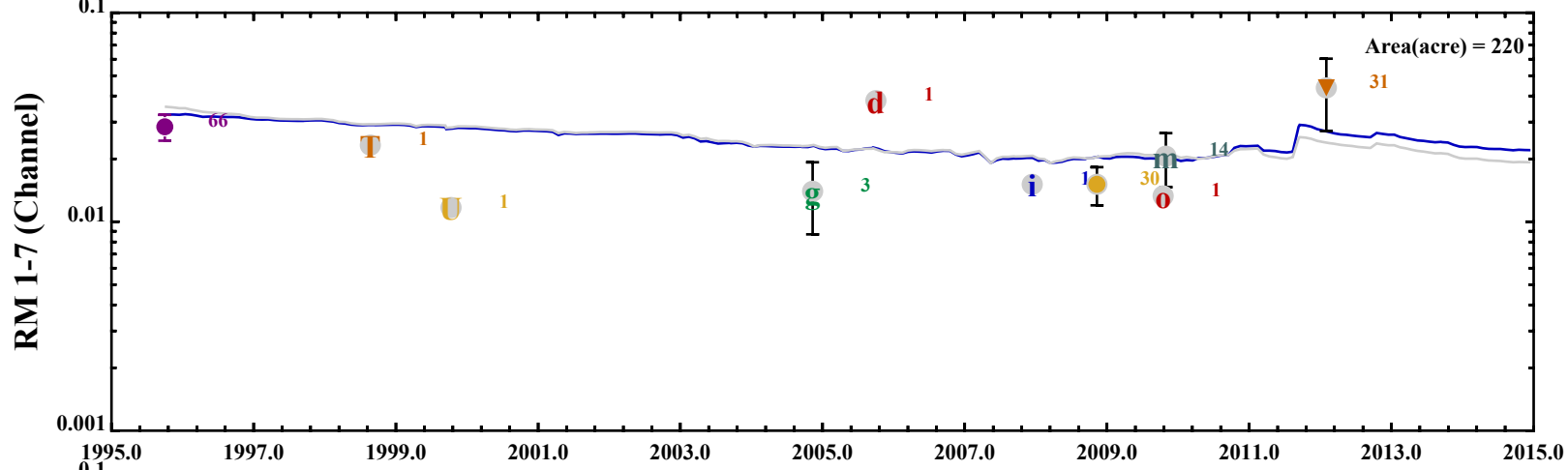
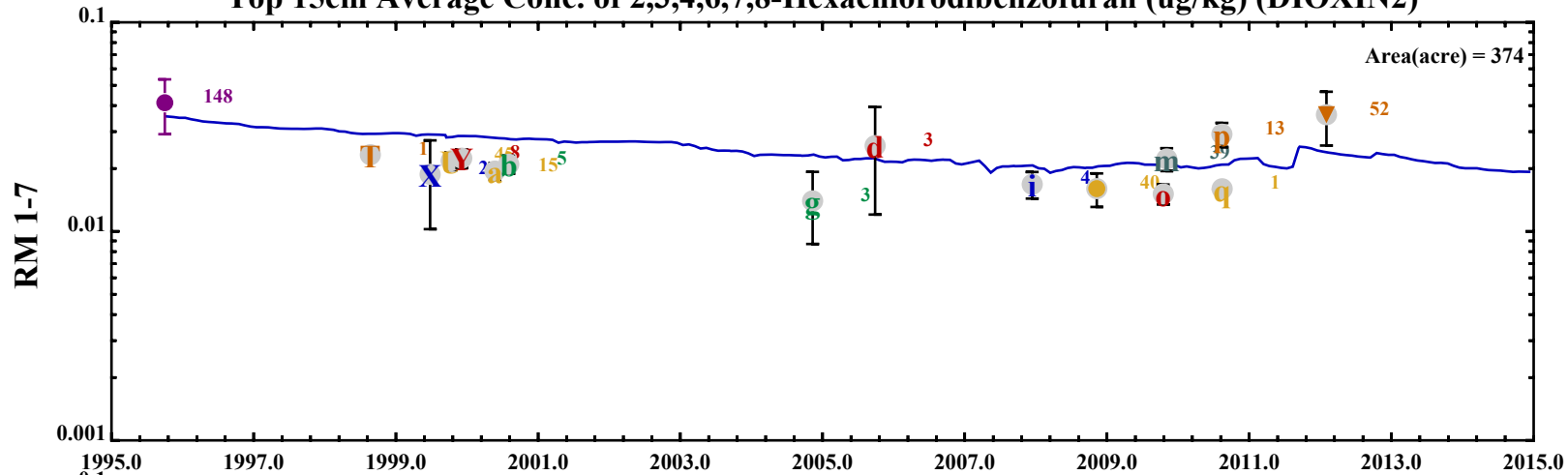
# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

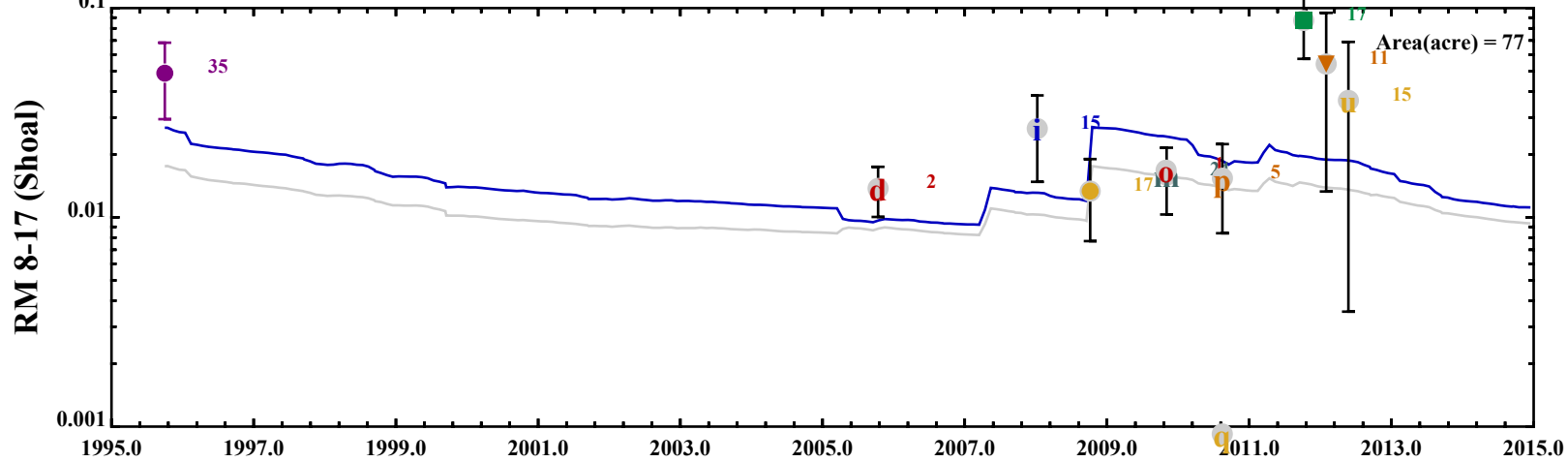
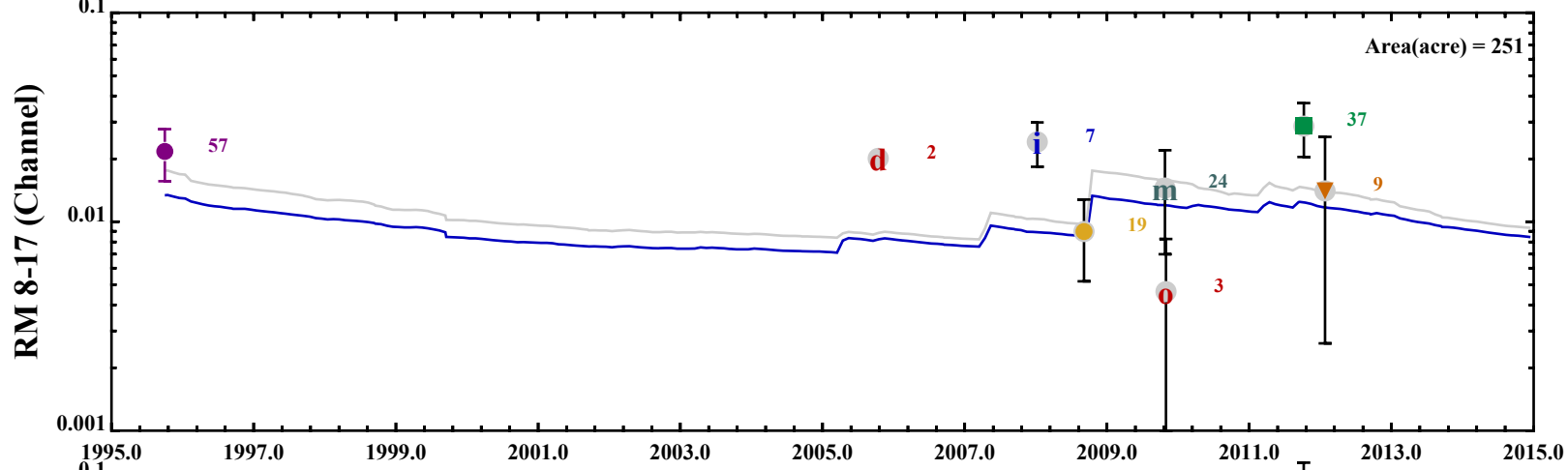
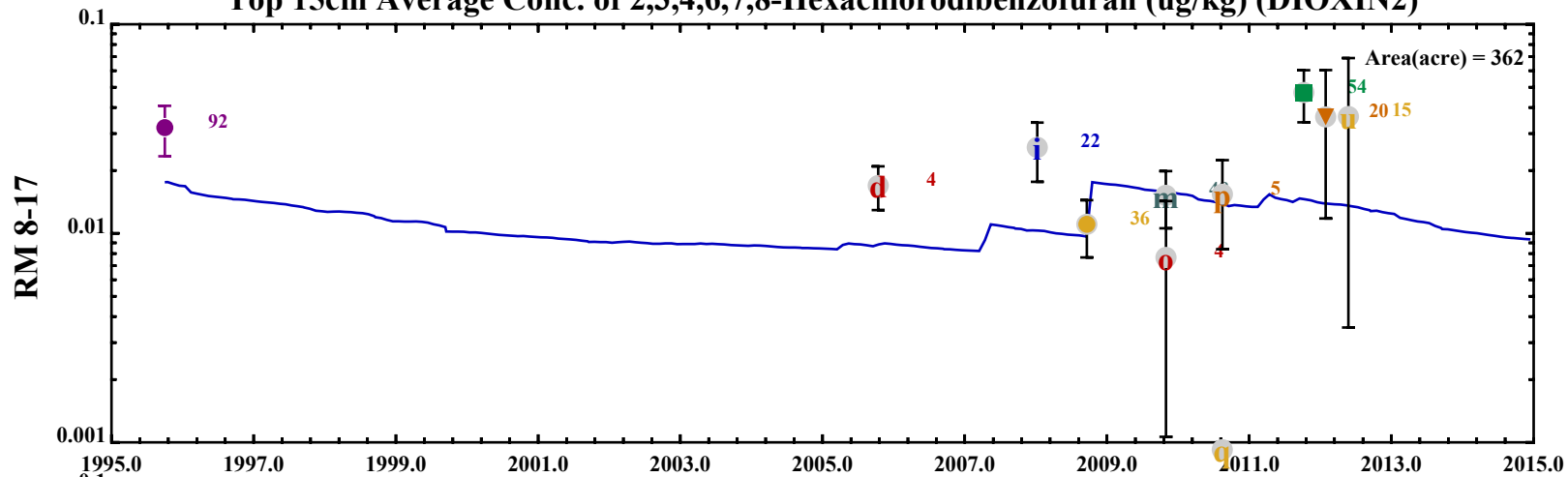
# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

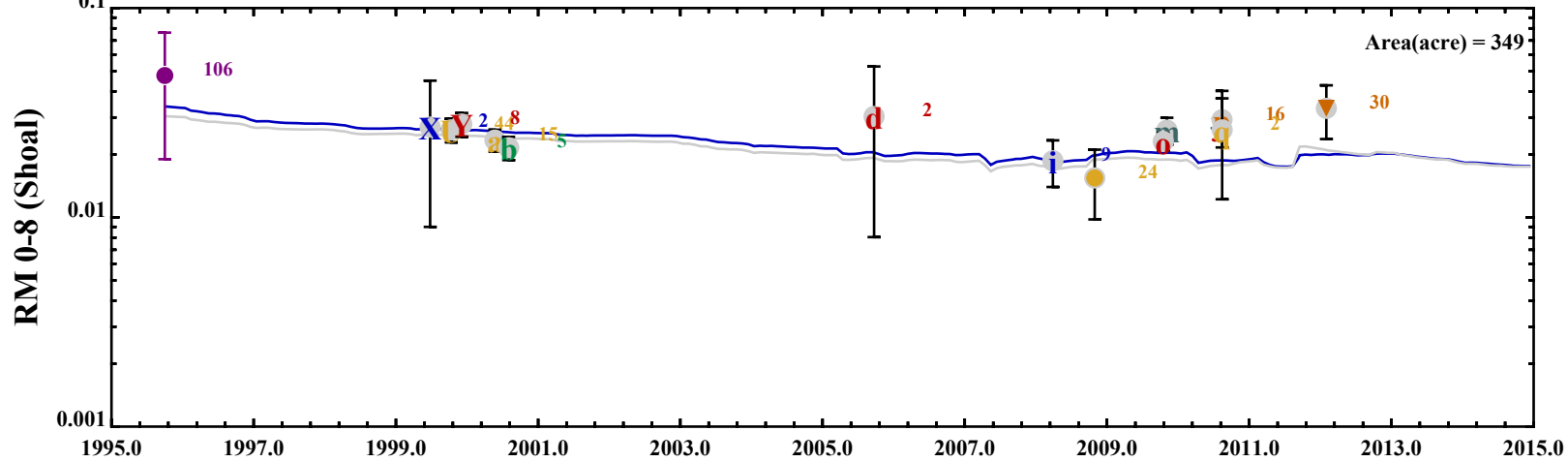
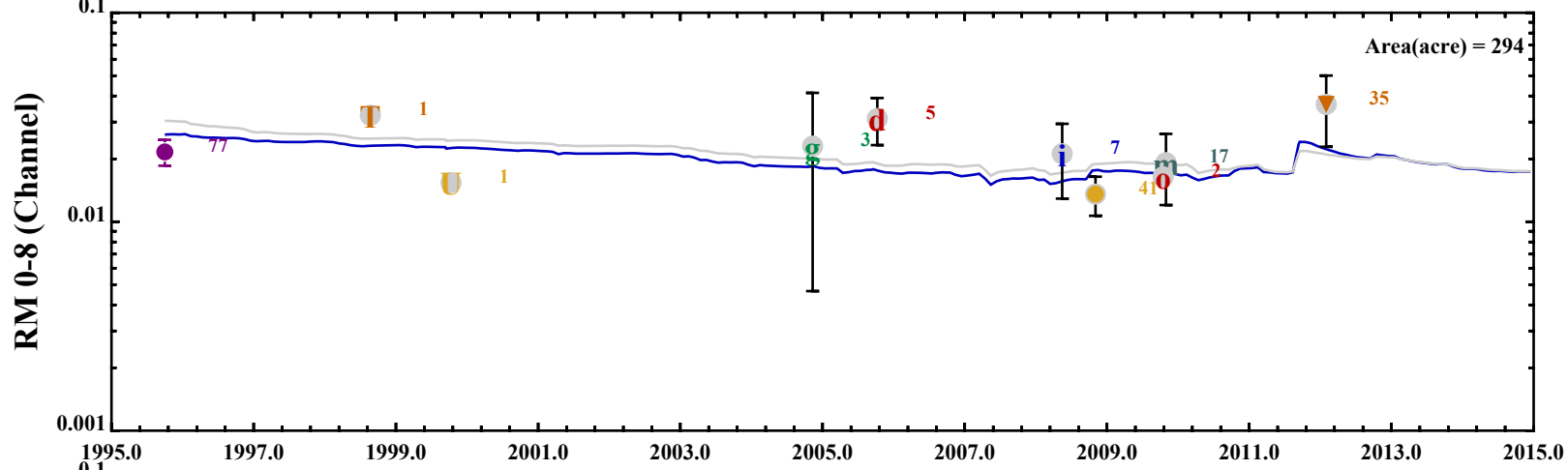
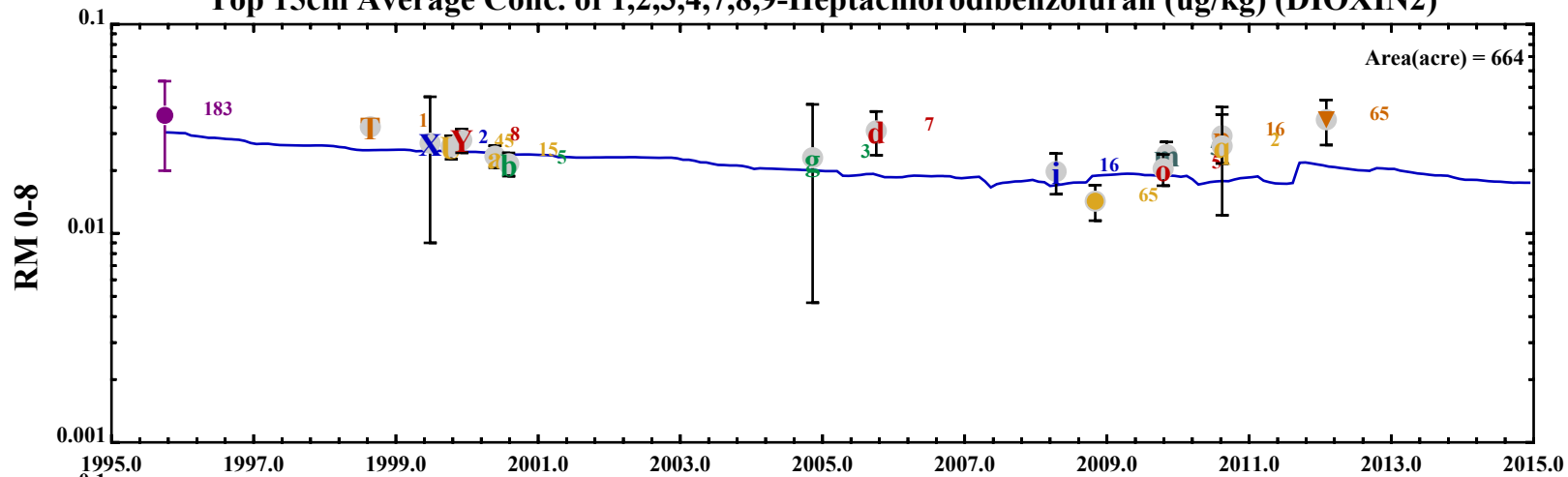
# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1992 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

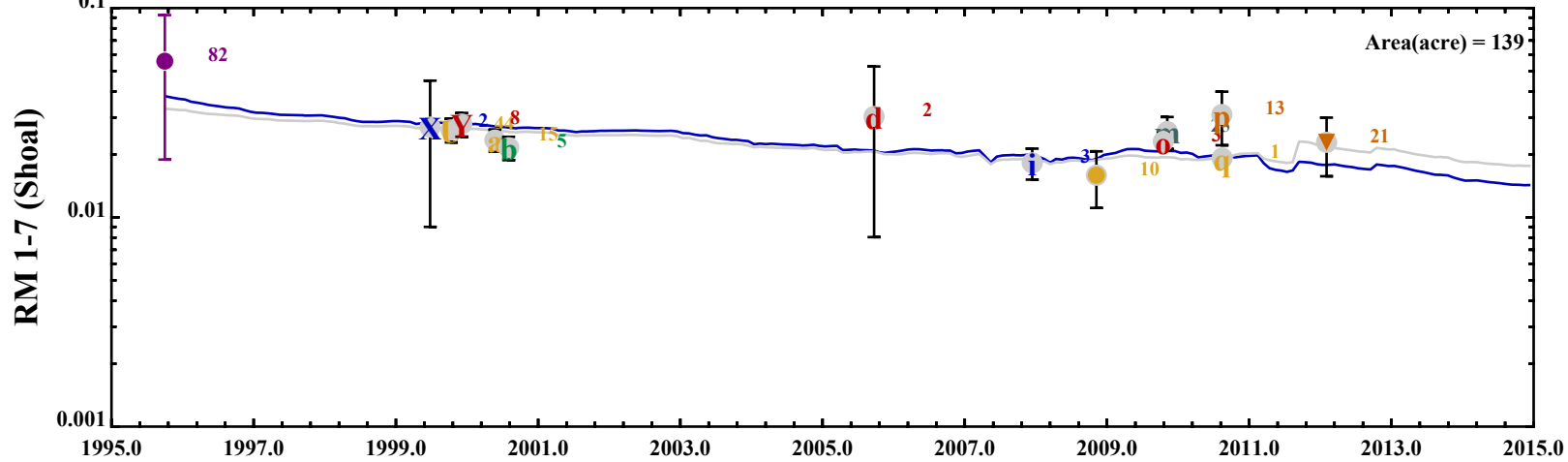
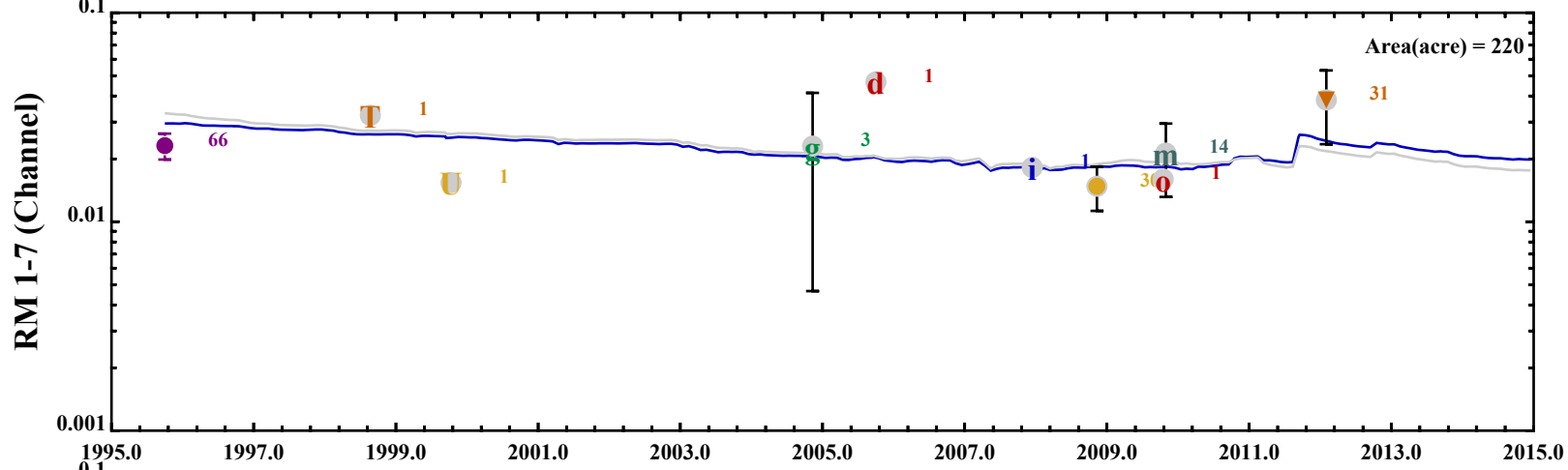
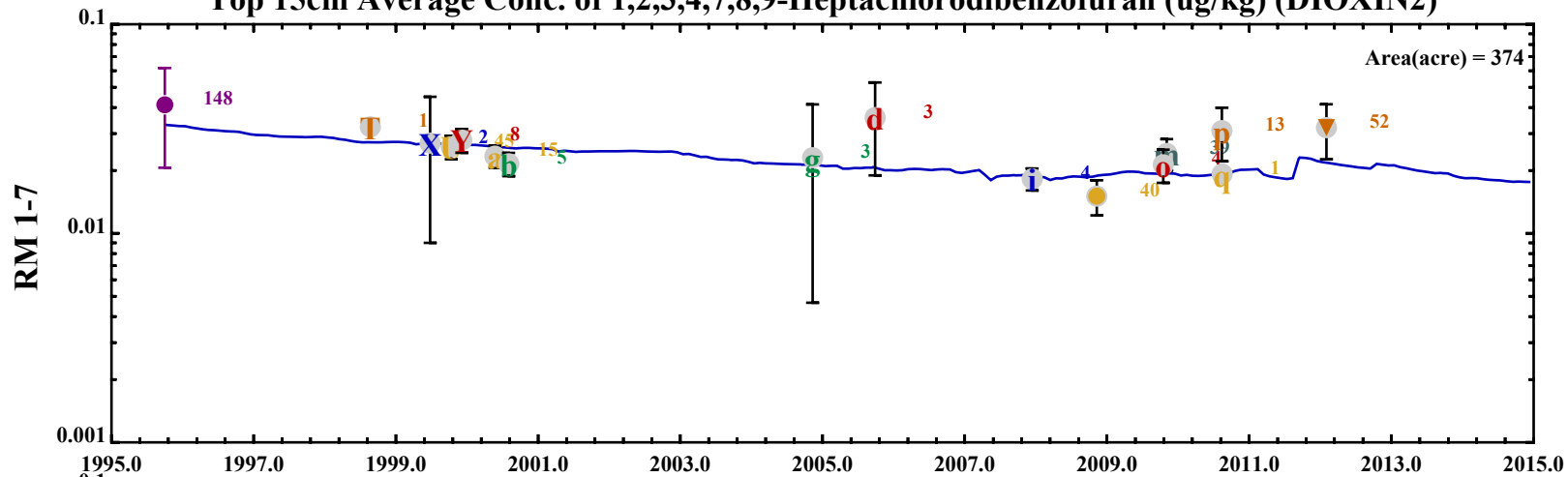


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

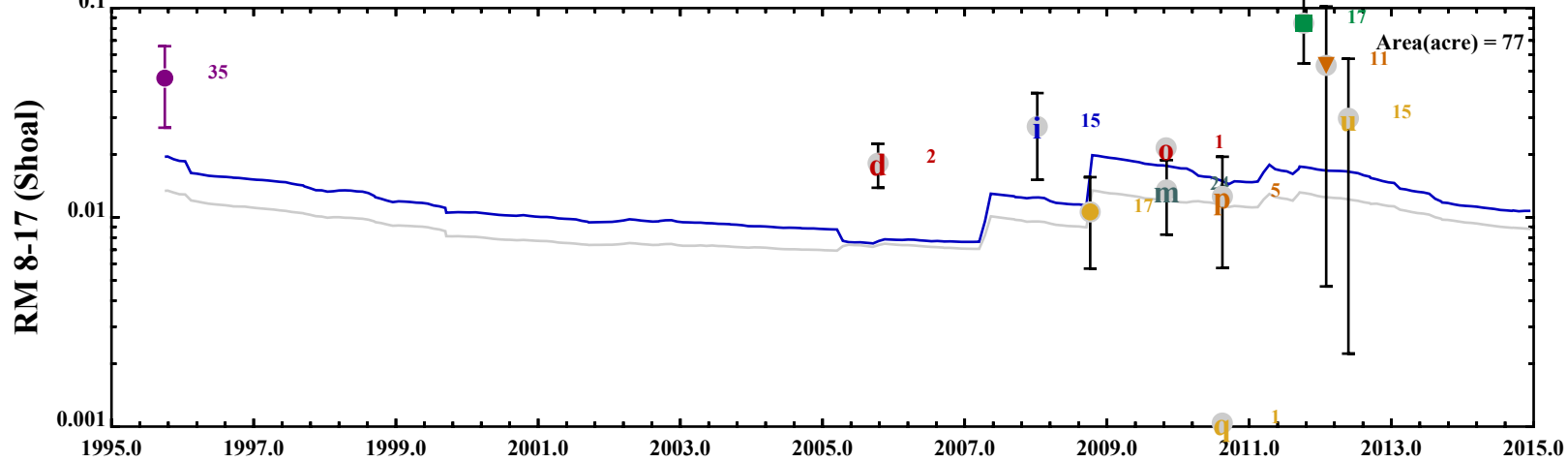
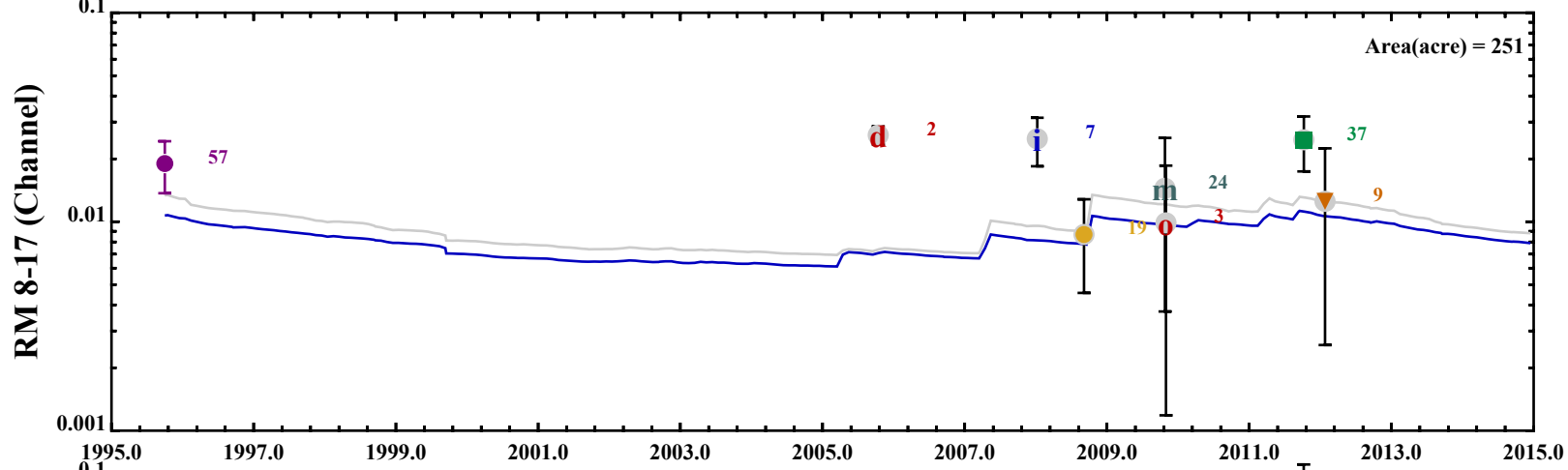
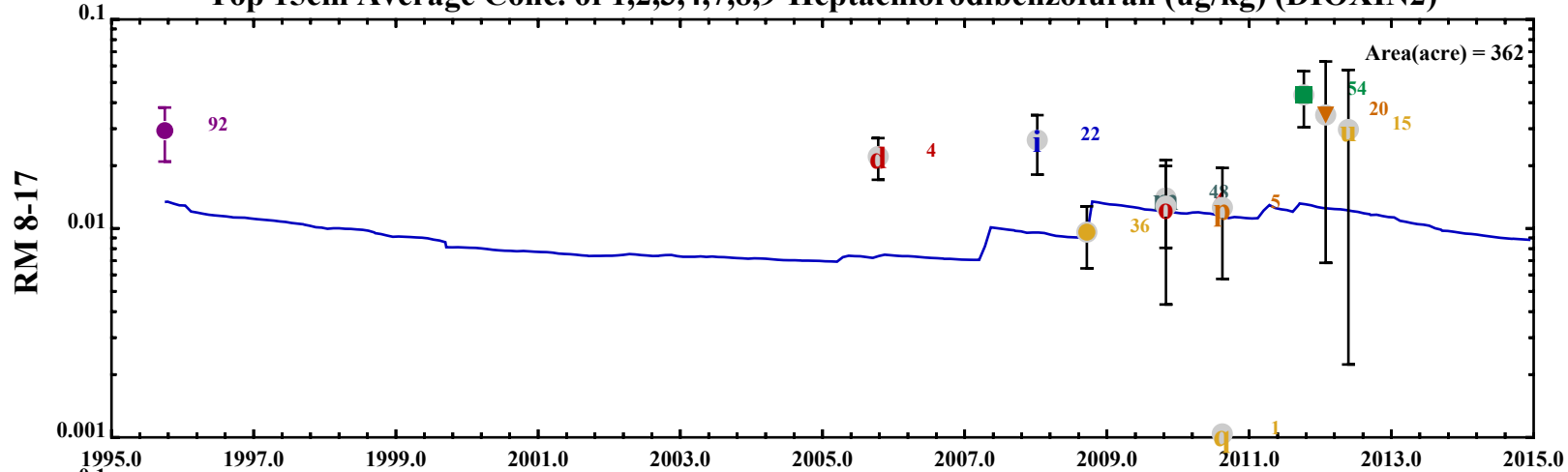
Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith Low Res Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

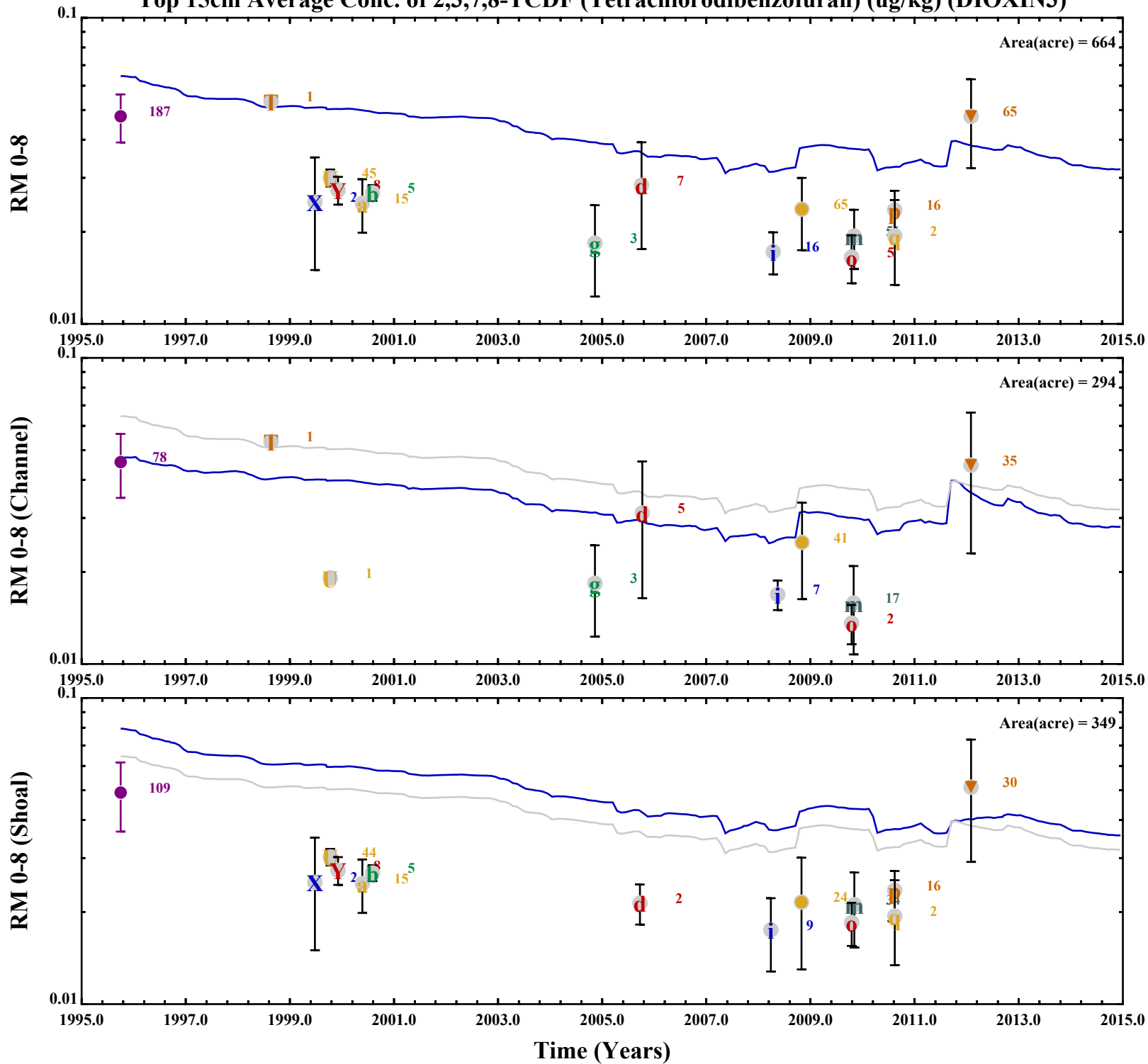


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

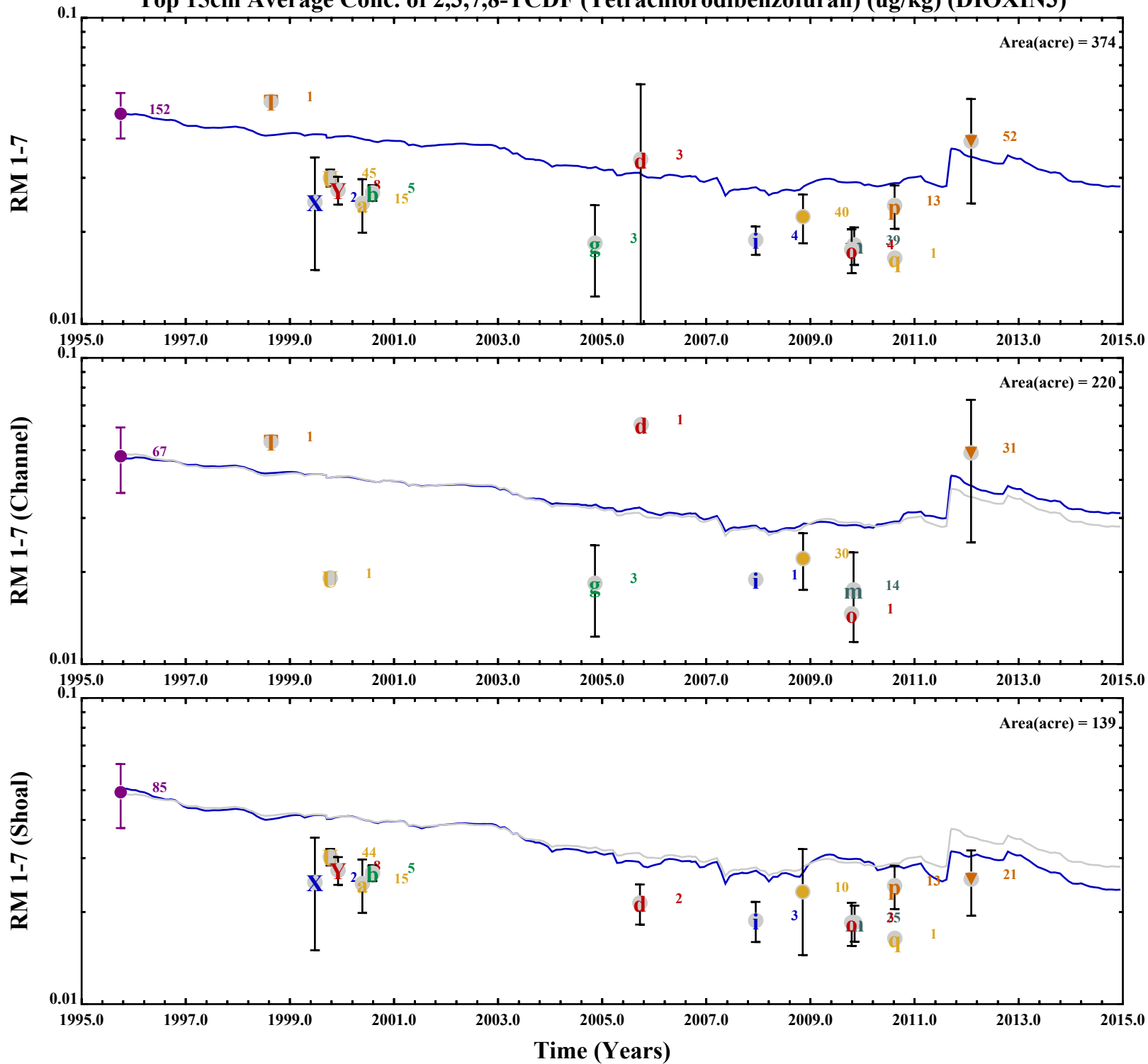


# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

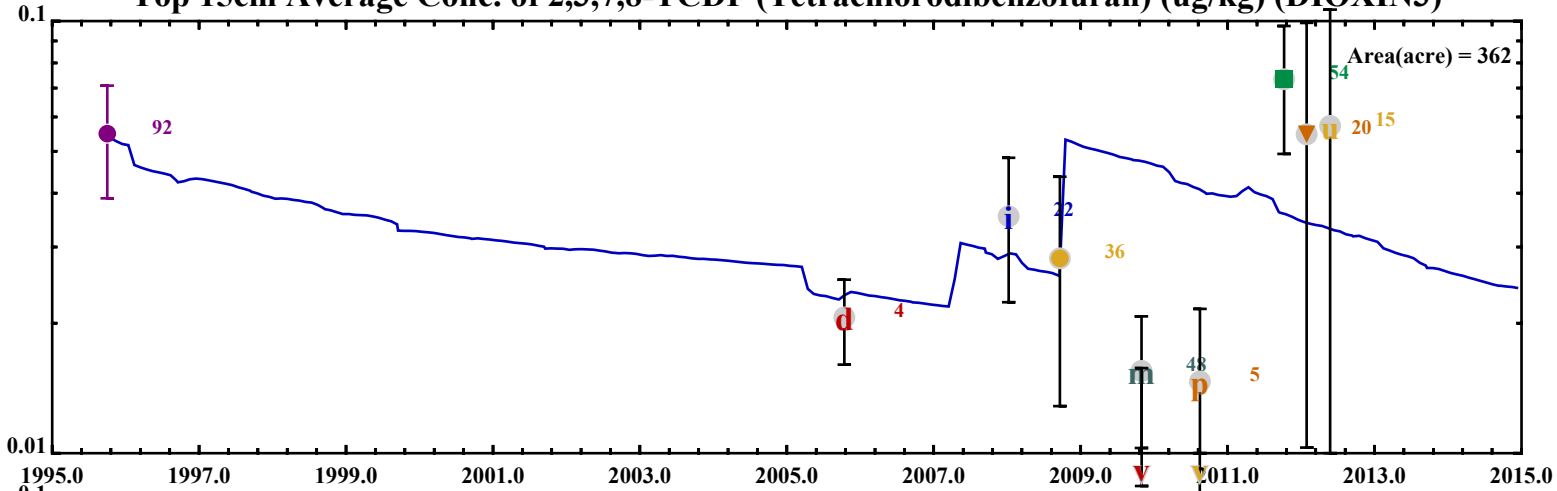
# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



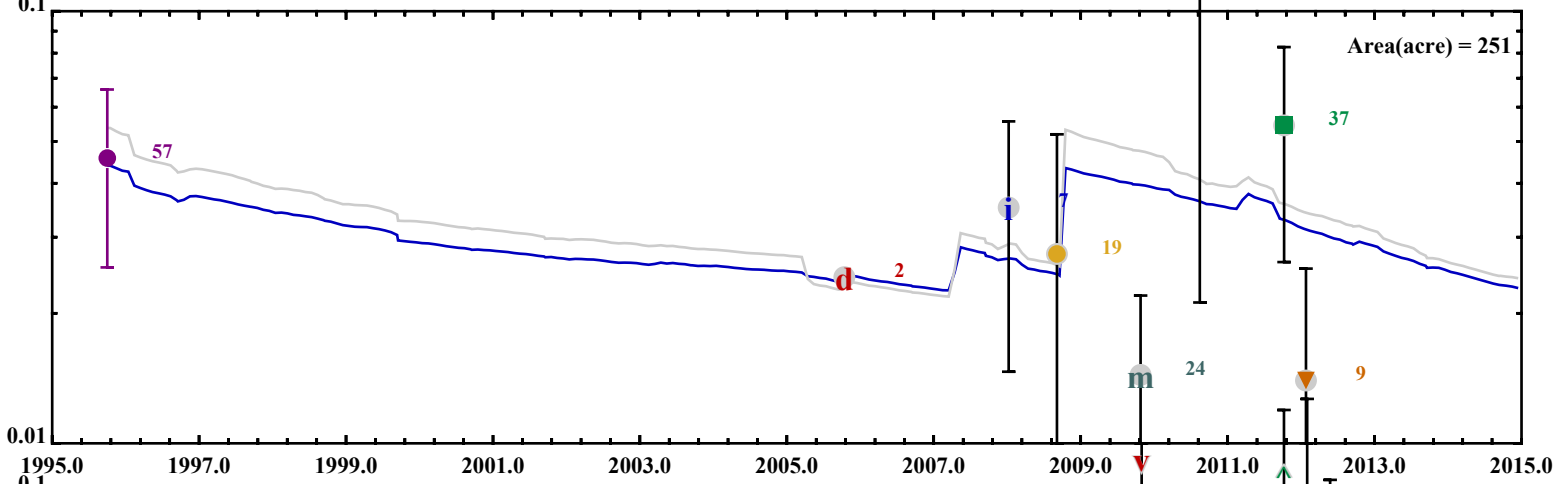
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)

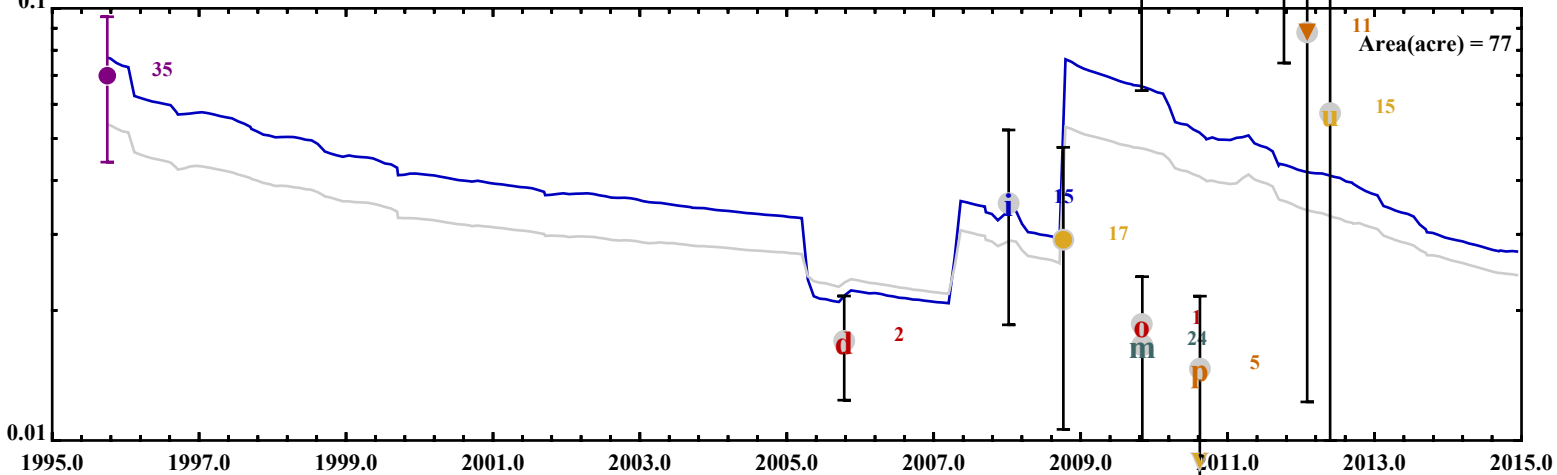
RM 8-17



RM 8-17 (Channel)



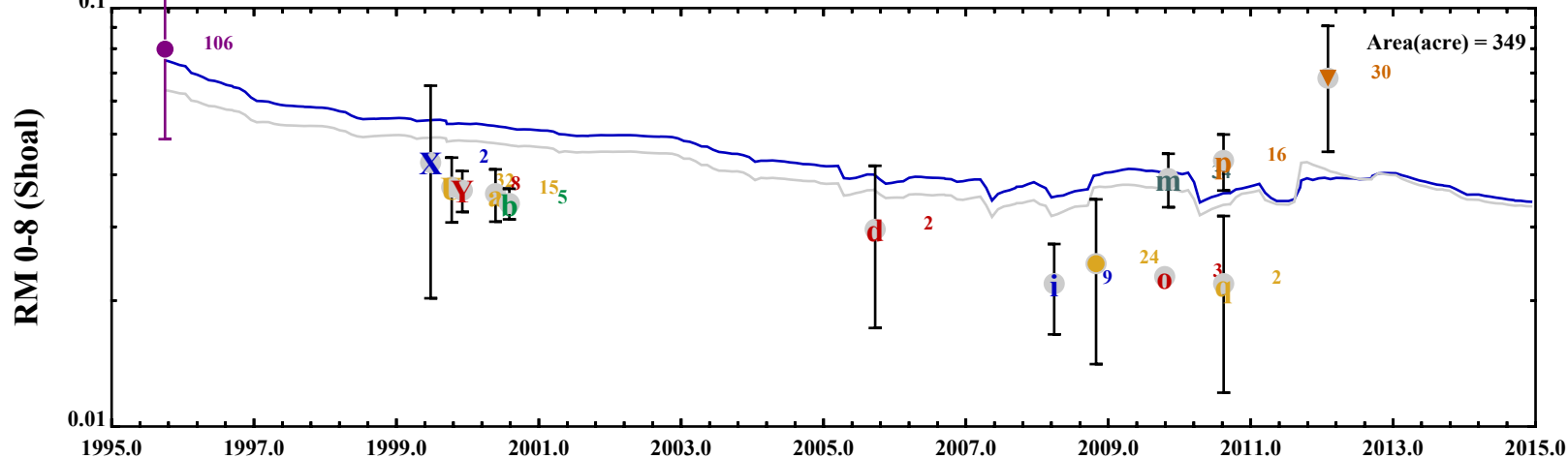
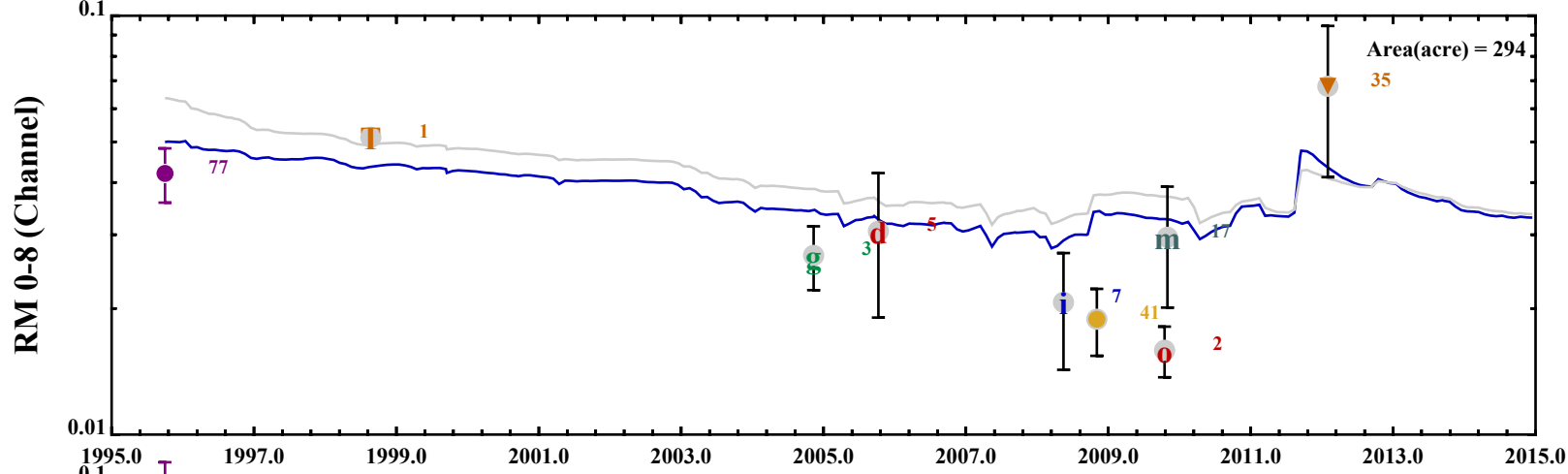
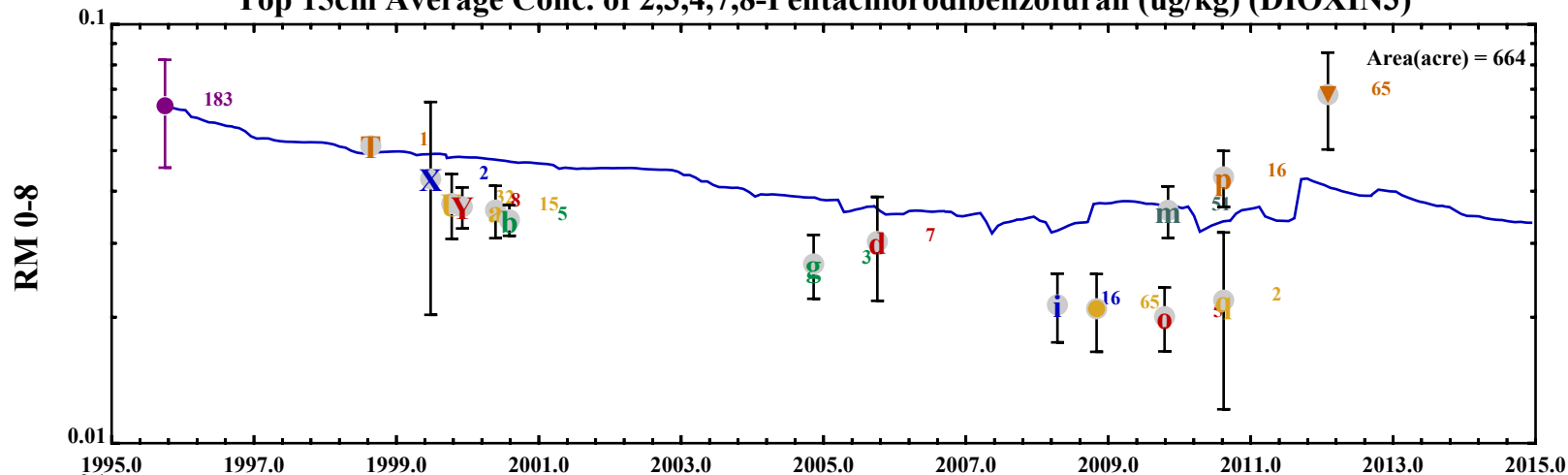
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
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  - 2005 MPI - Newark Bay Phase I Oversight
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  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



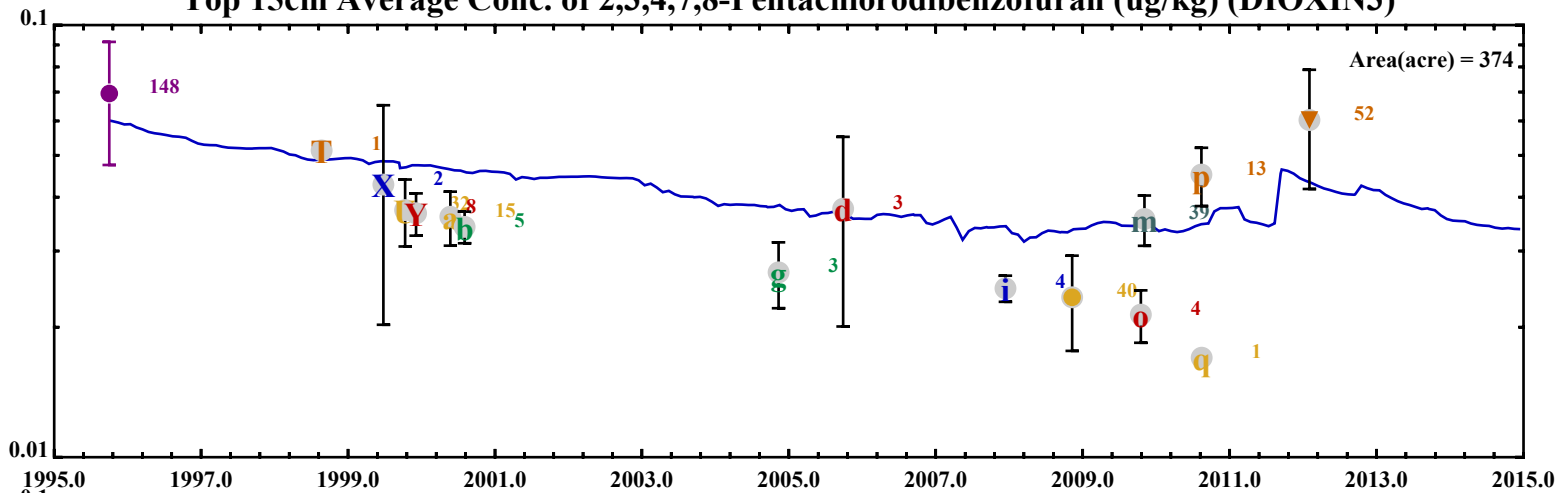
- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

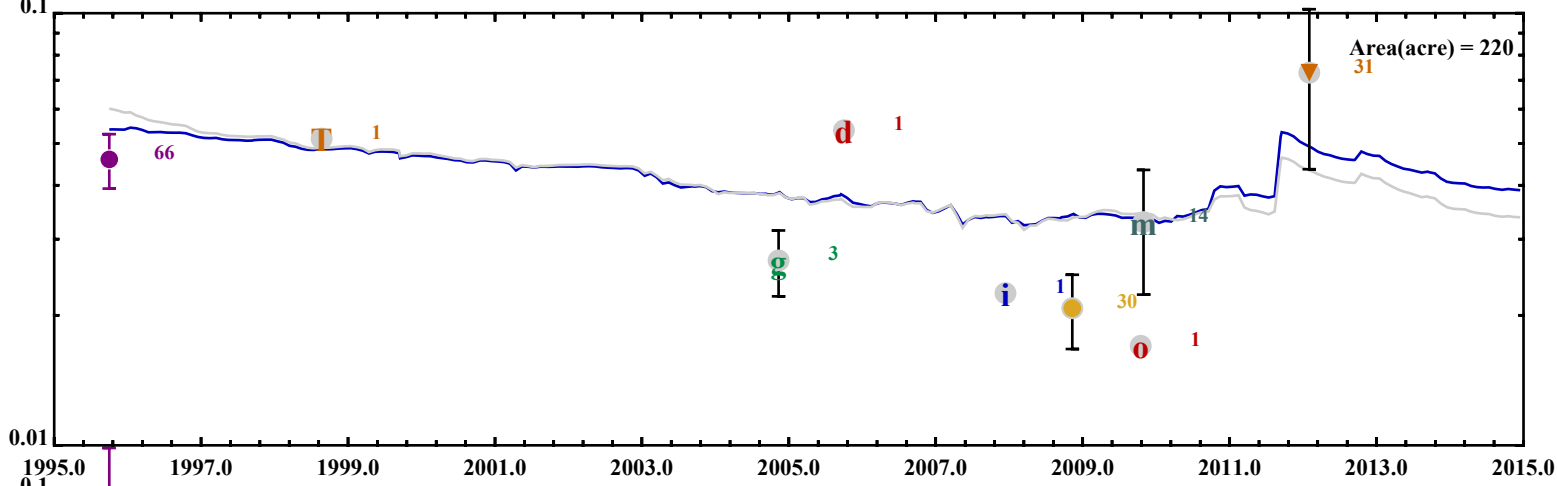
Time (Years)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

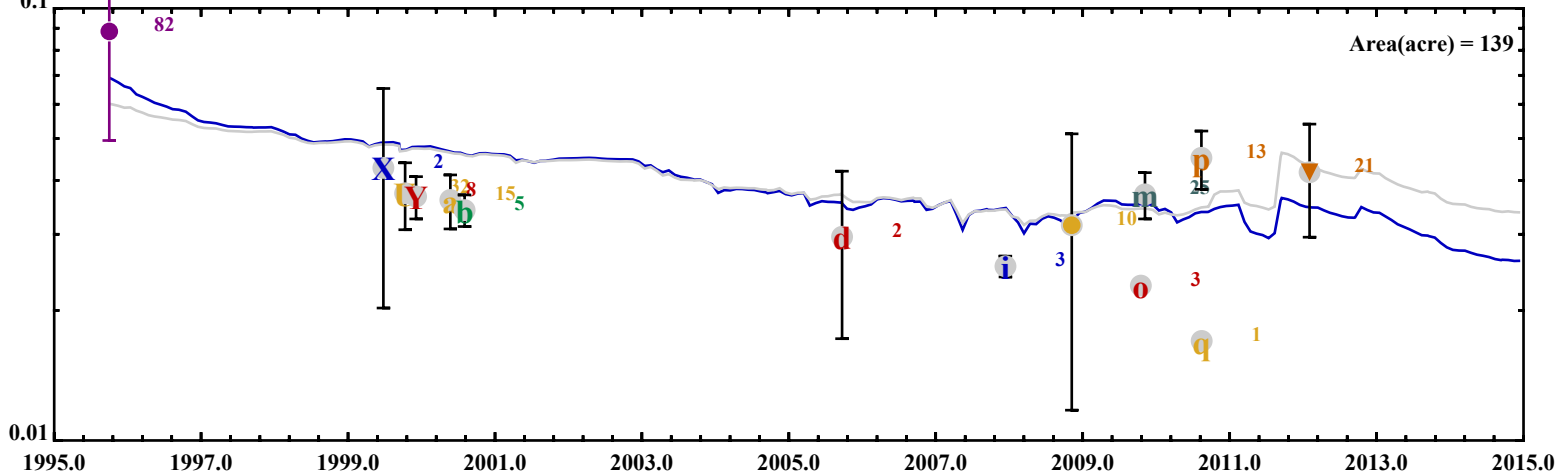
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

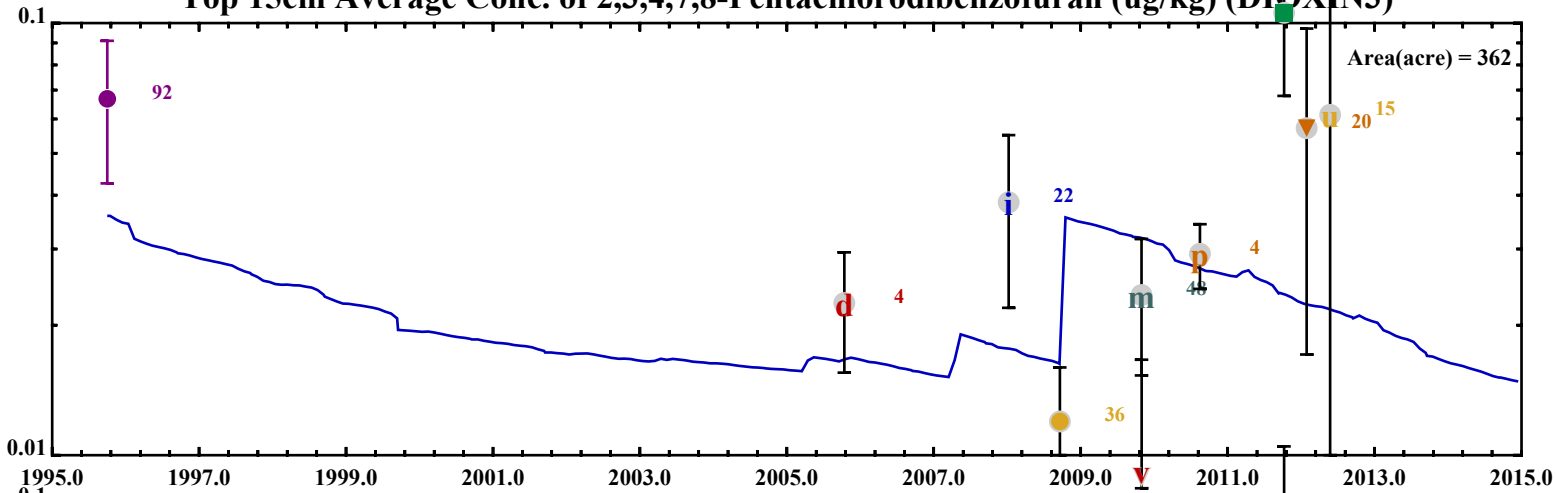


Time (Years)

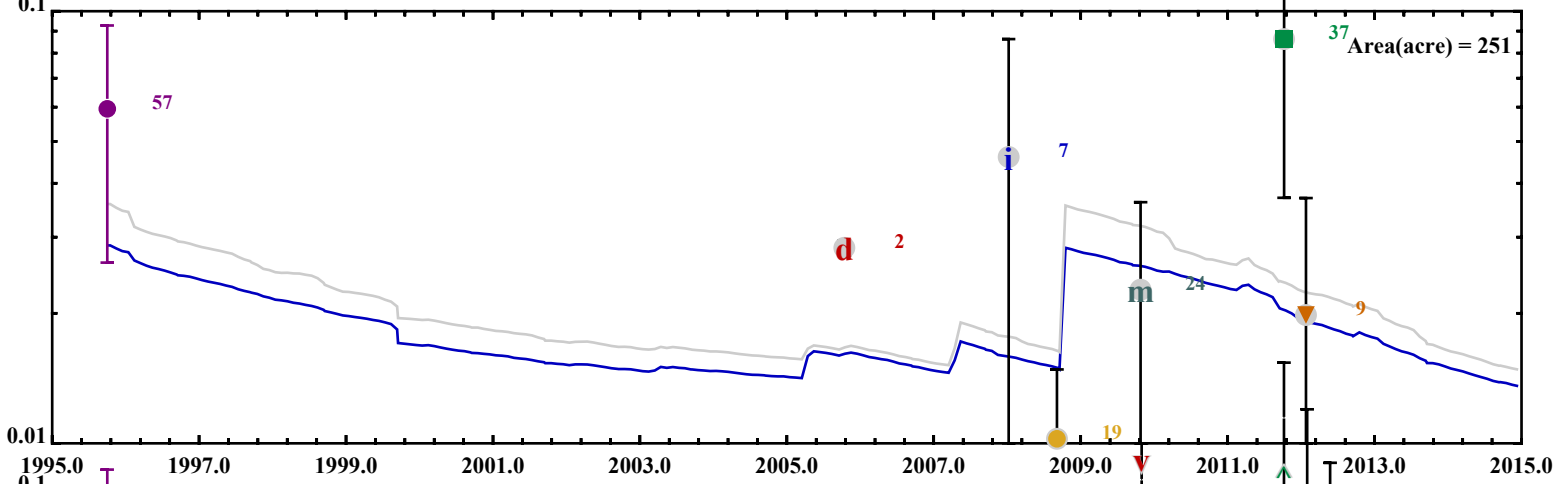
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

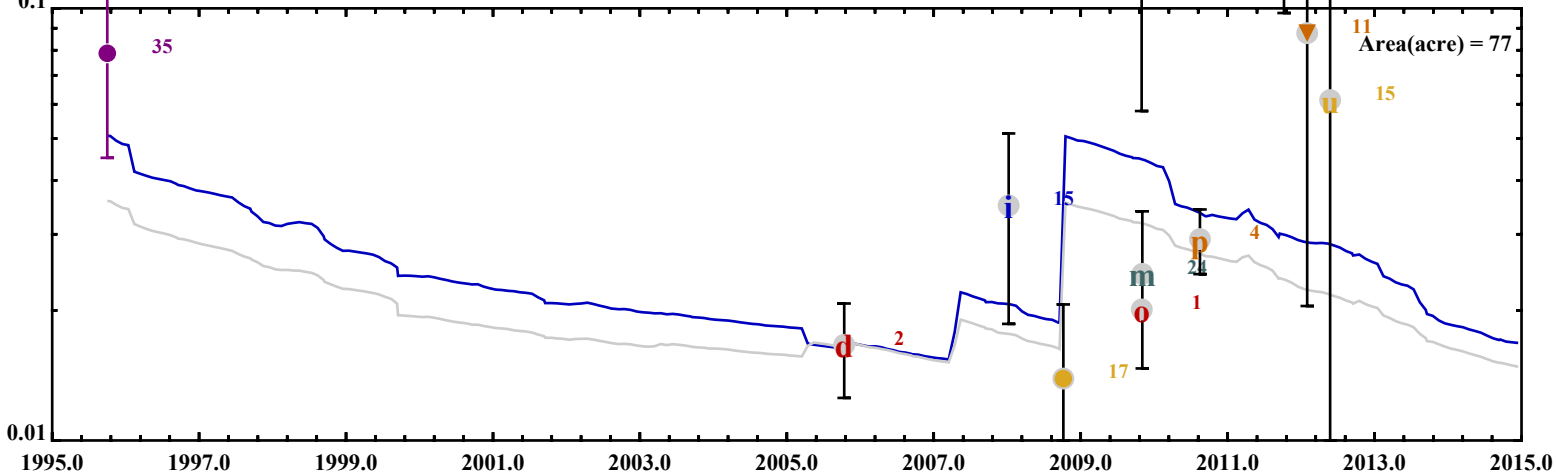
RM 8-17



RM 8-17 (Channel)



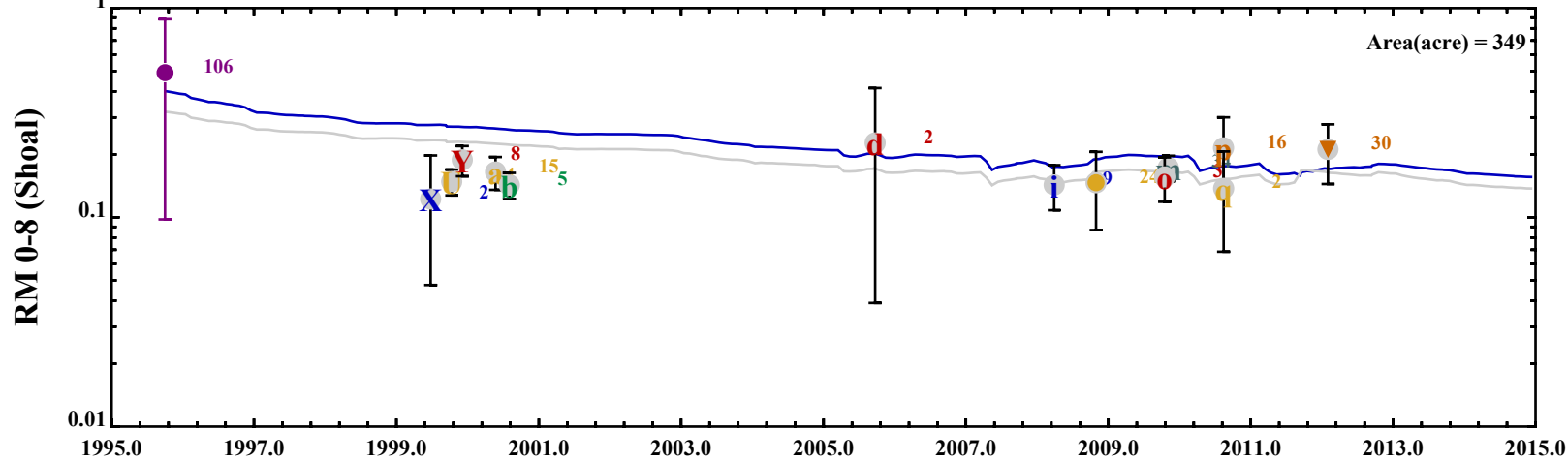
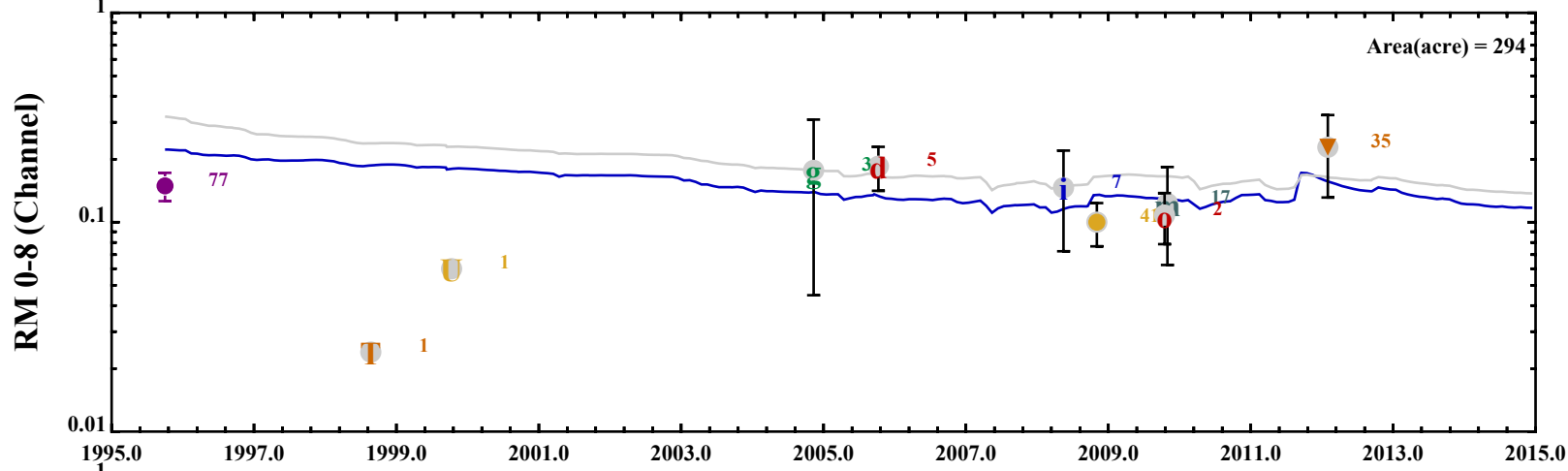
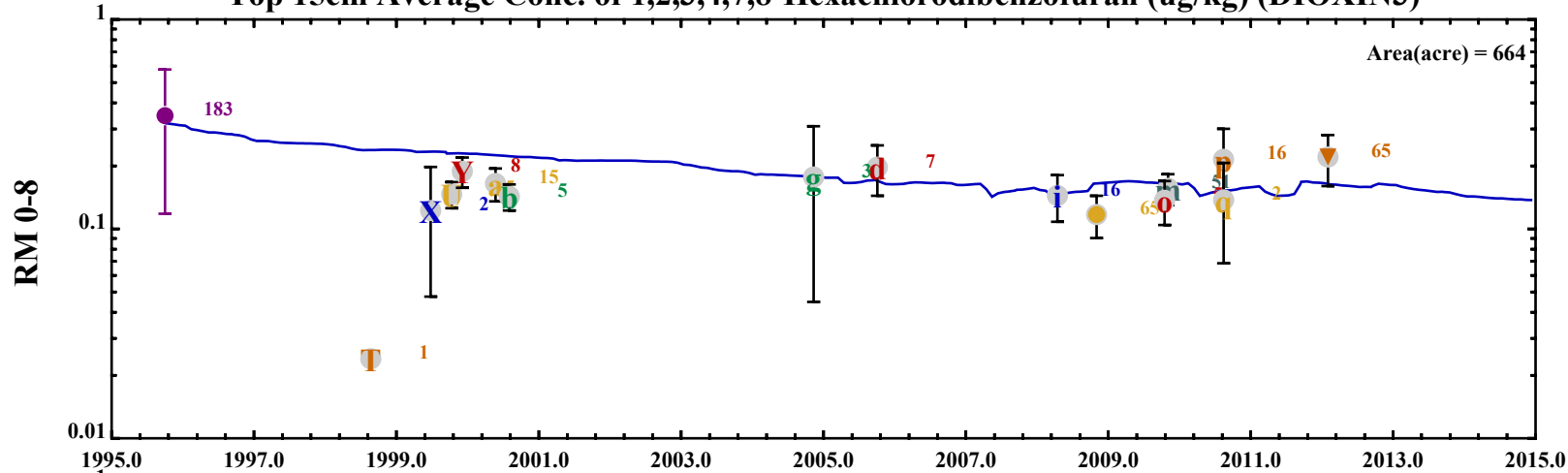
RM 8-17 (Shoal)



Time (Years)

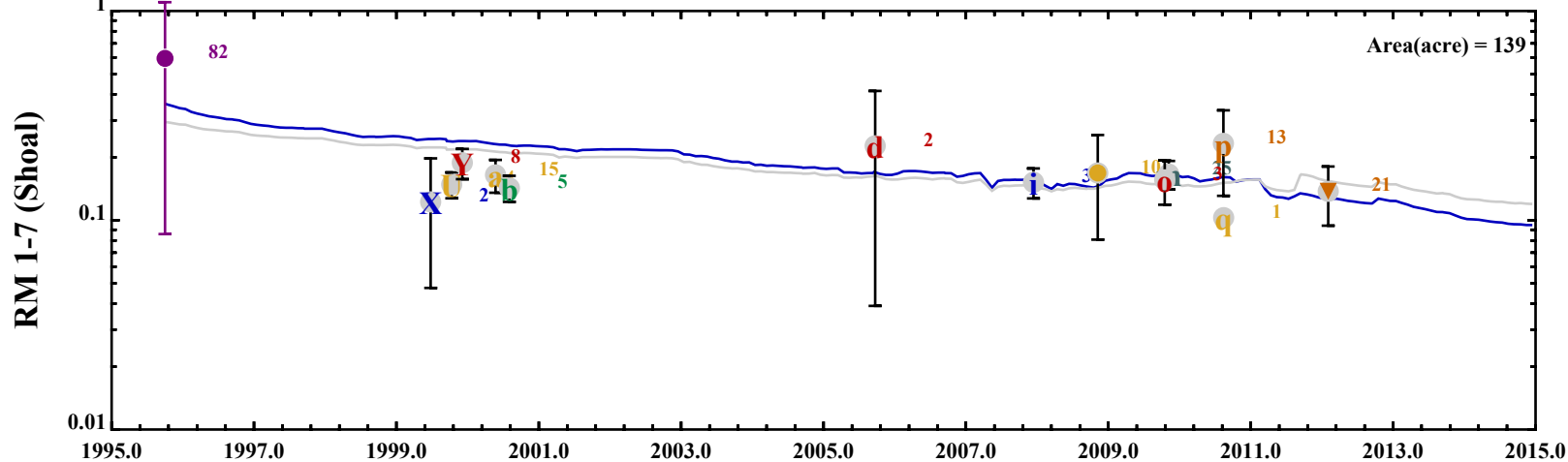
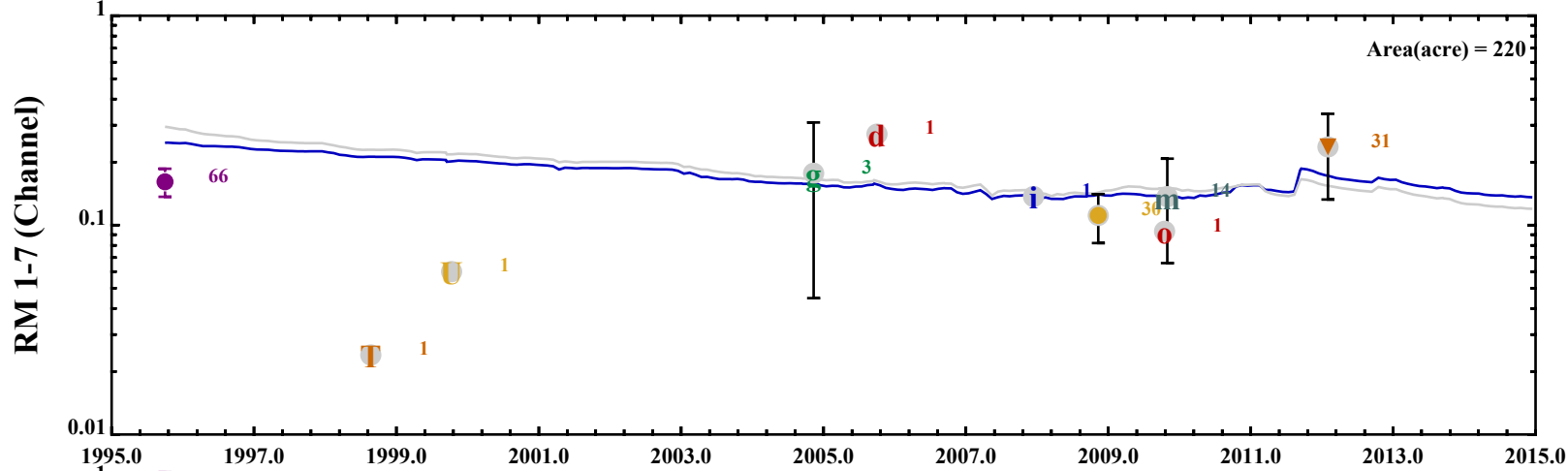
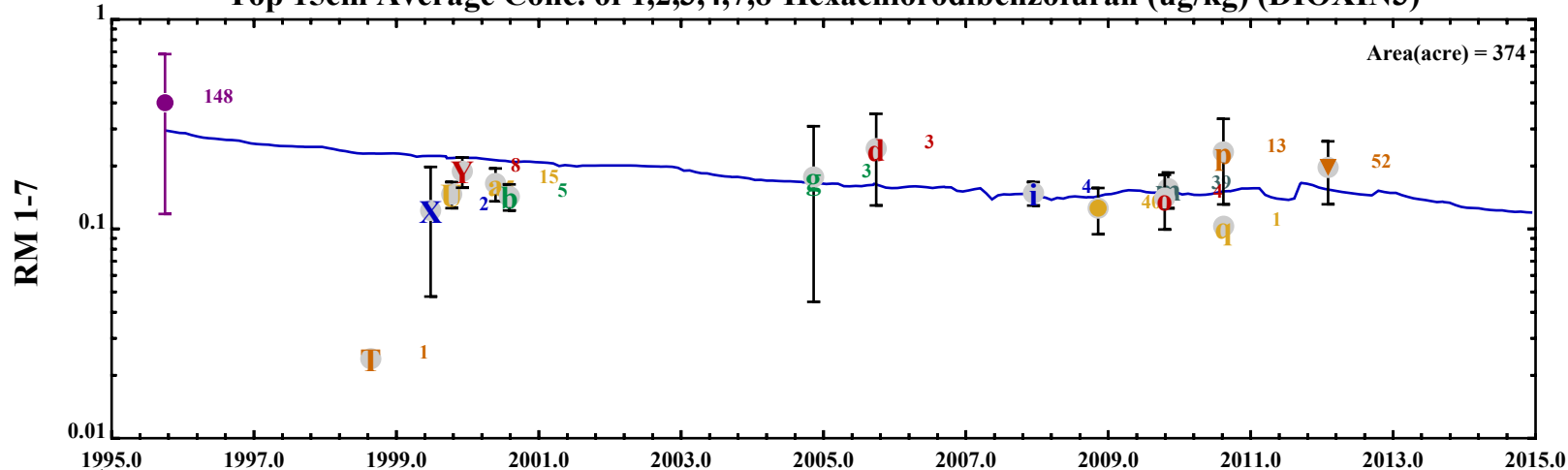
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



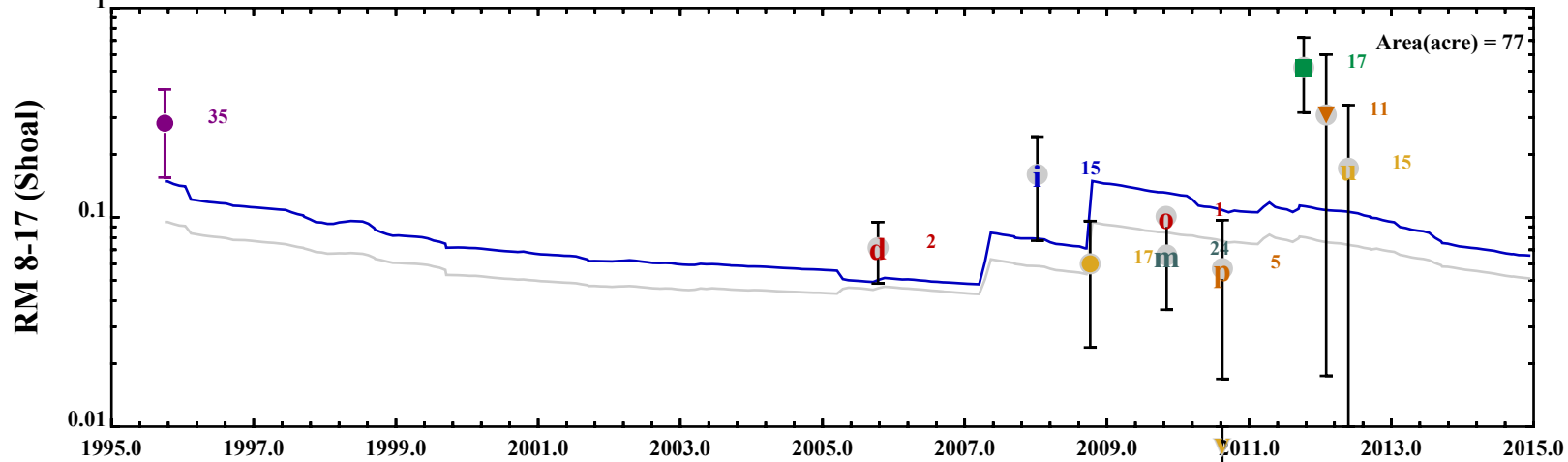
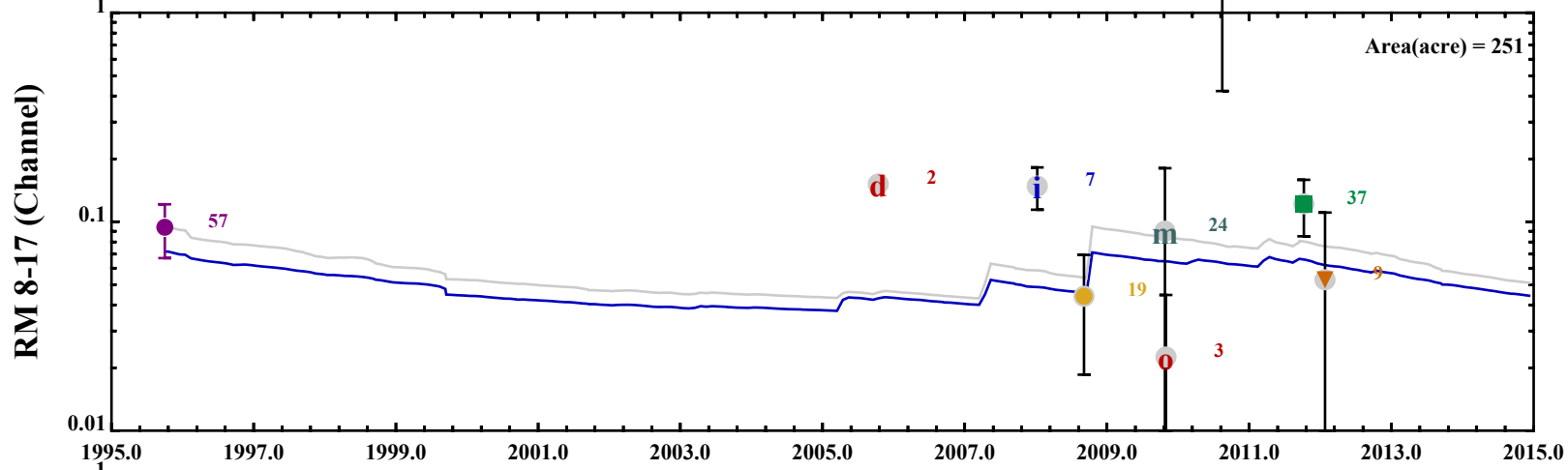
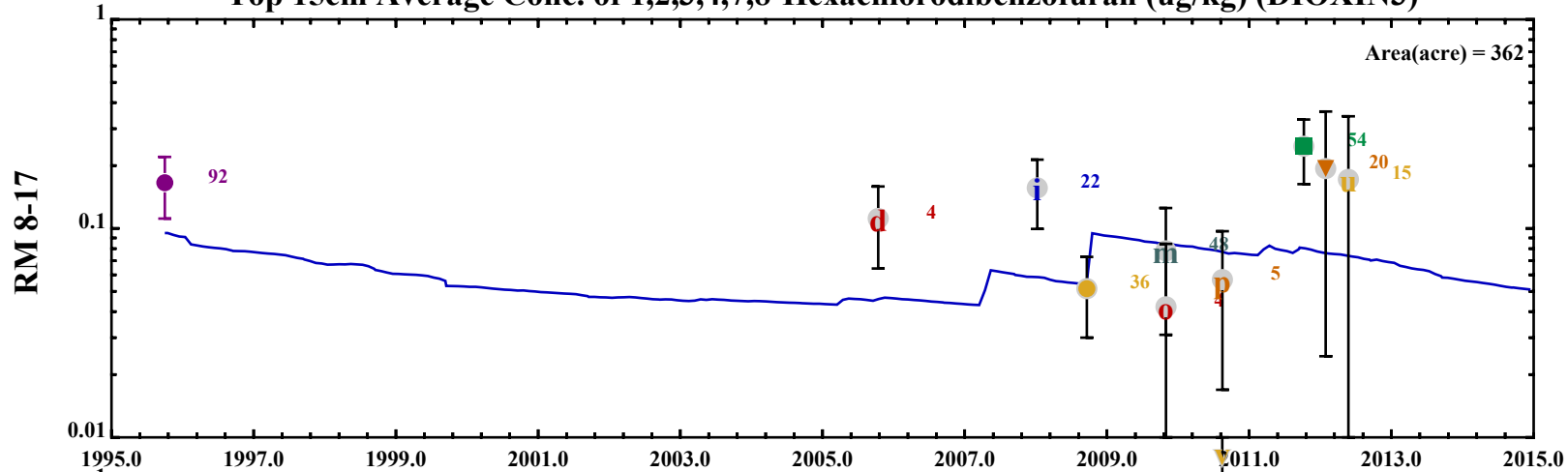
- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



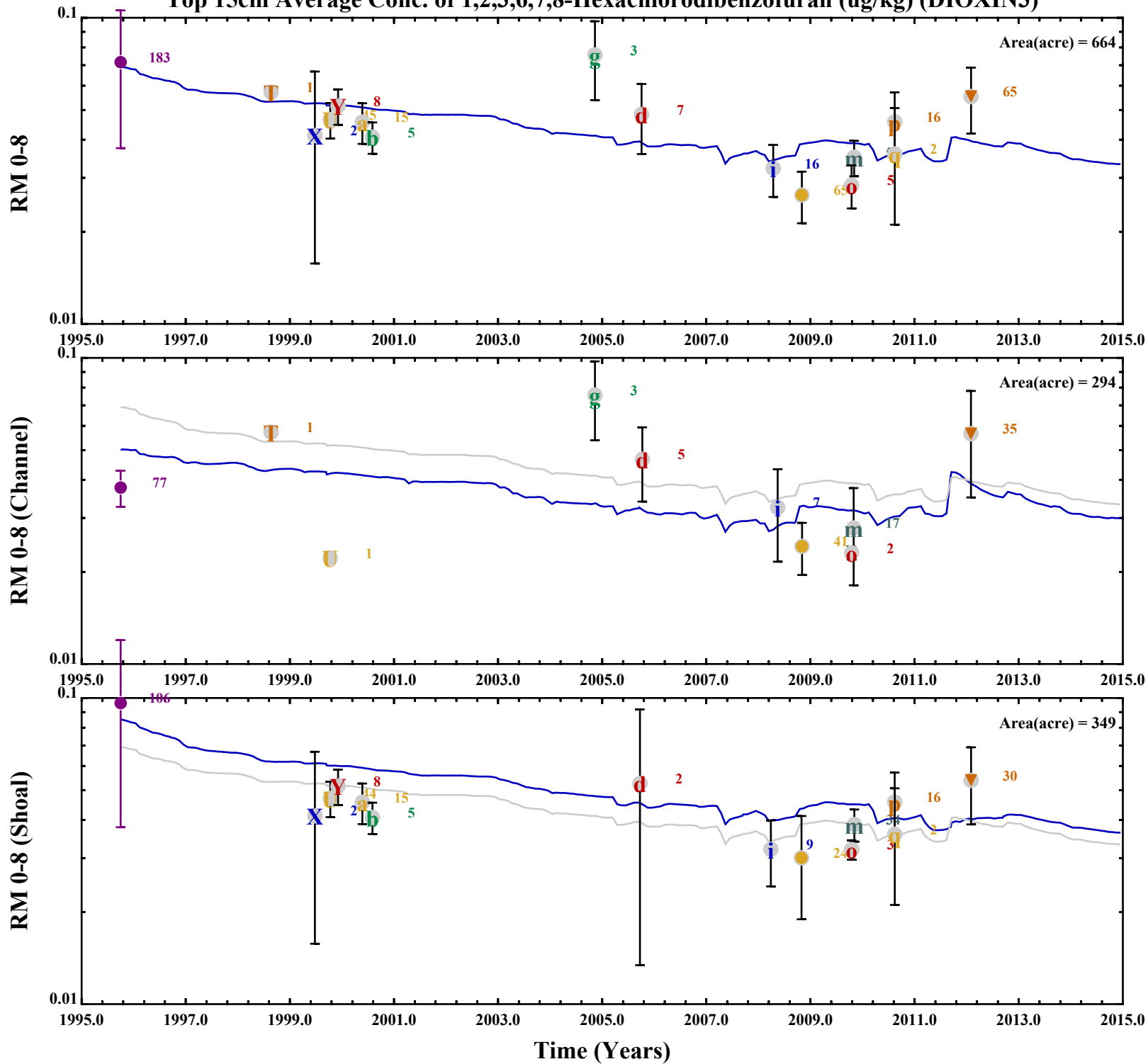
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

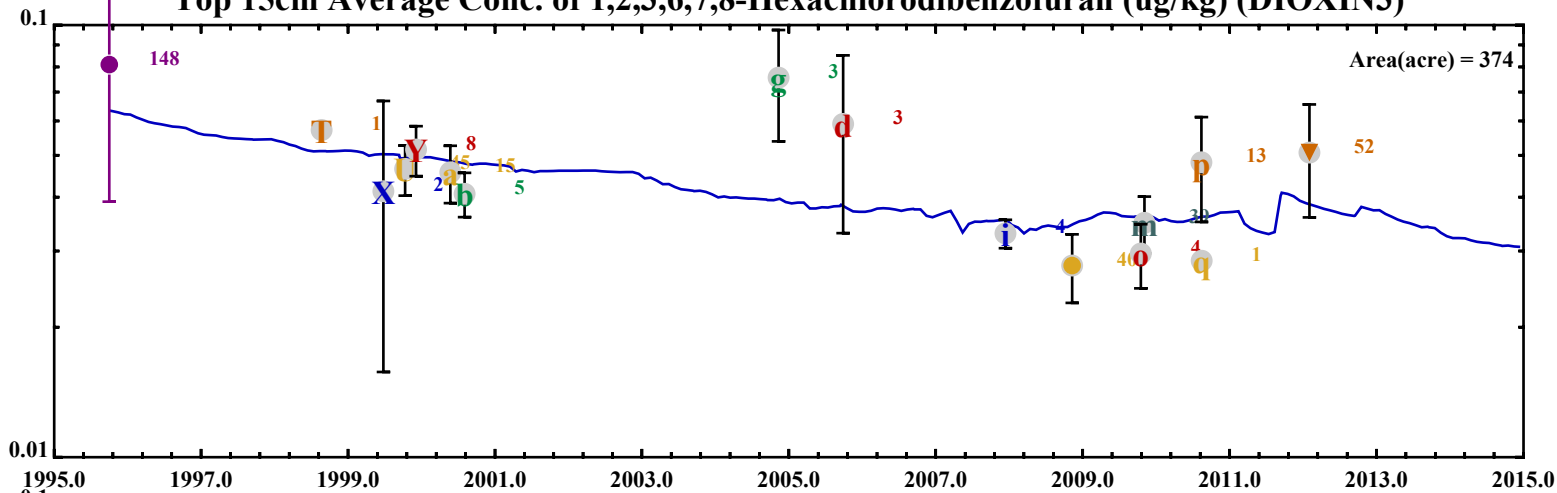
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



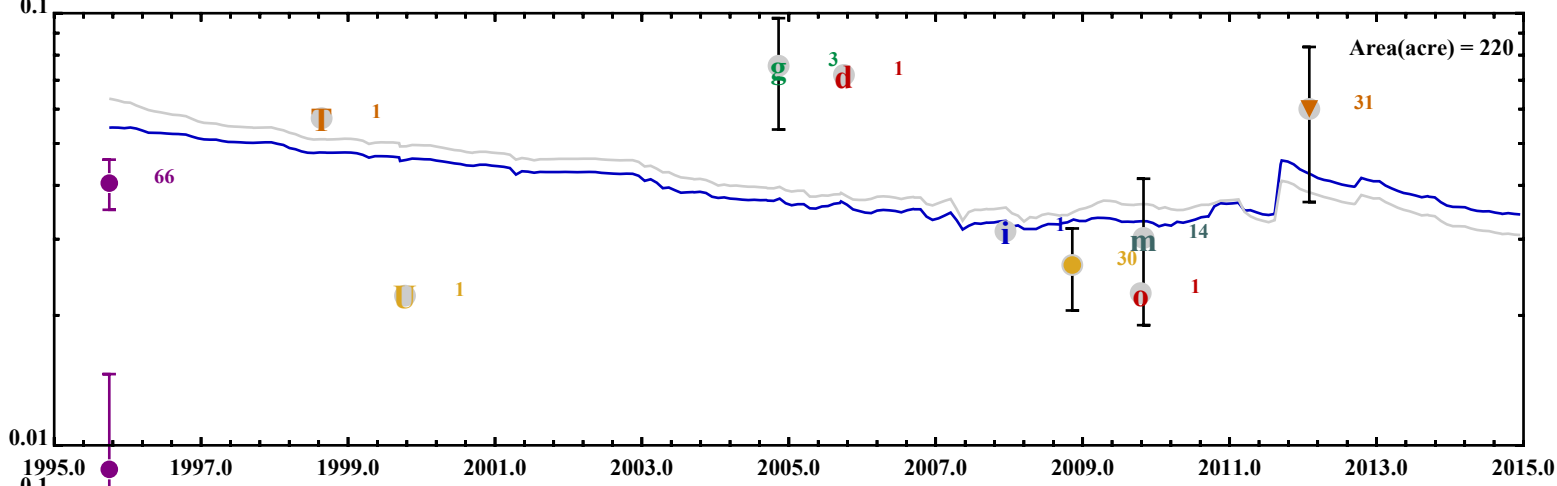
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

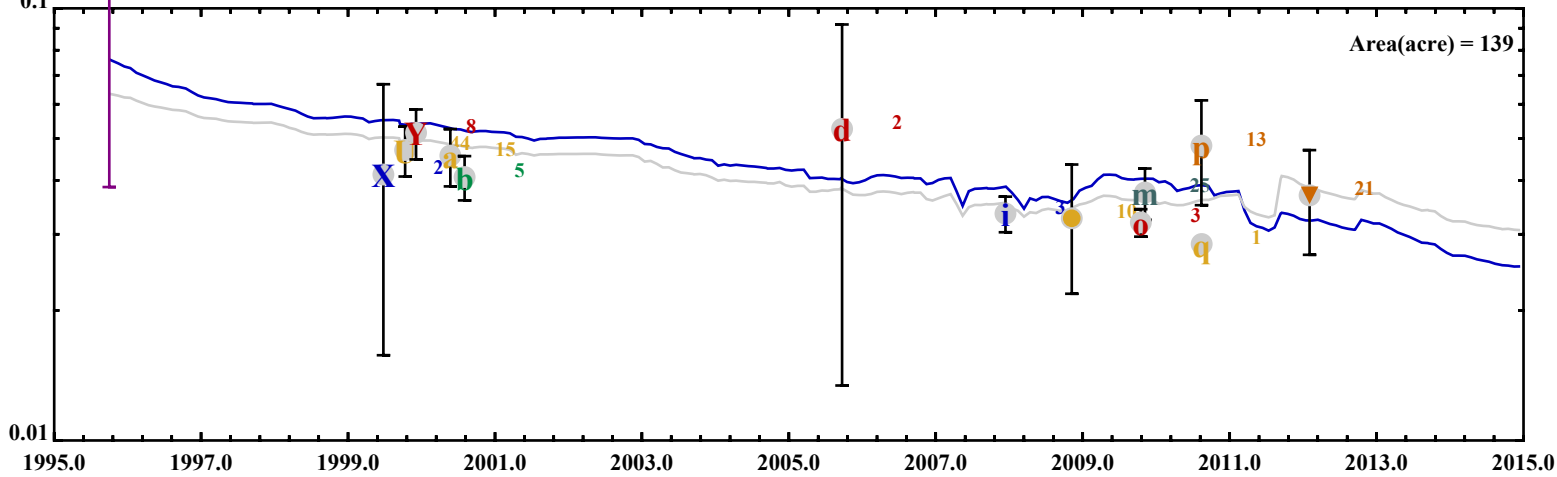
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

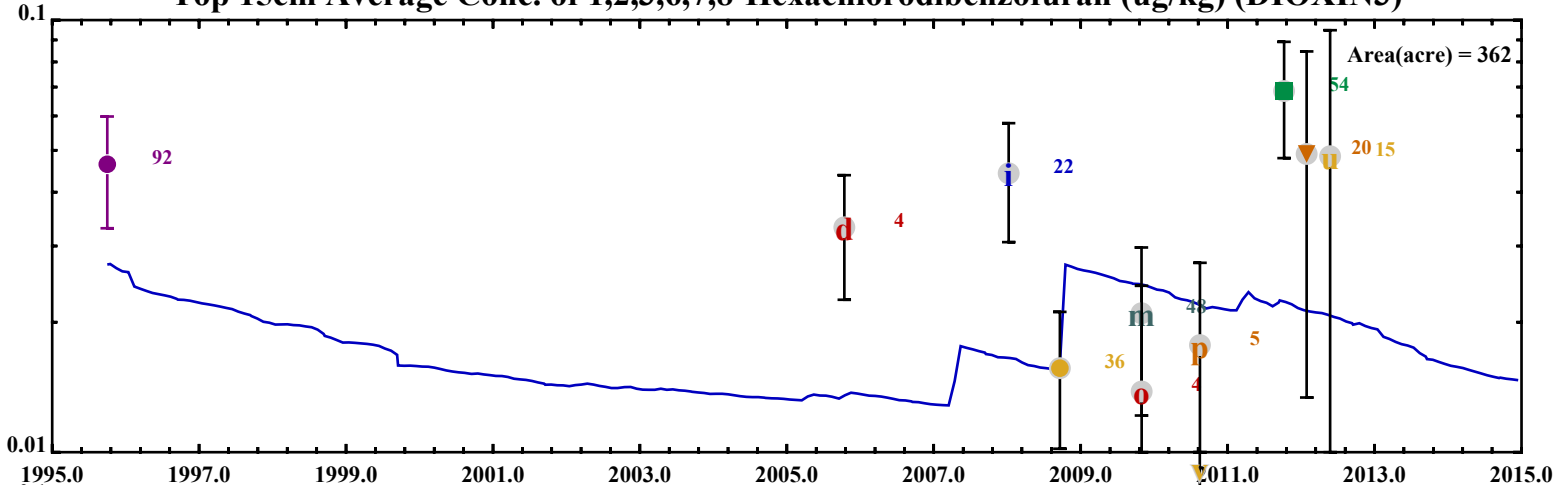


- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

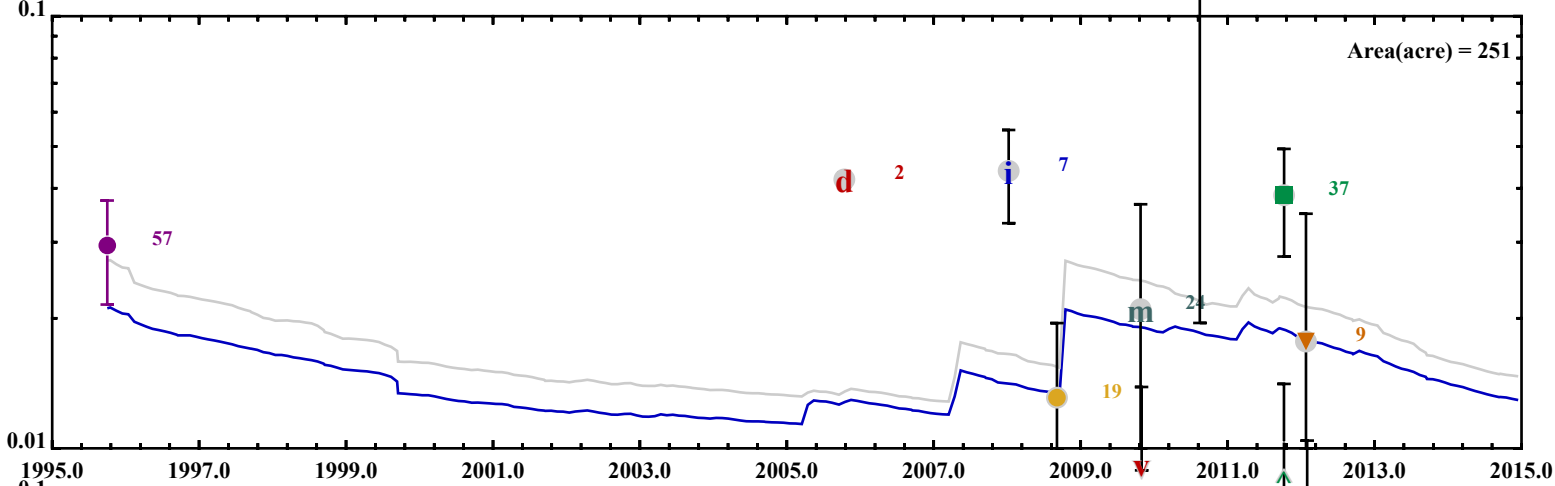
Time (Years)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

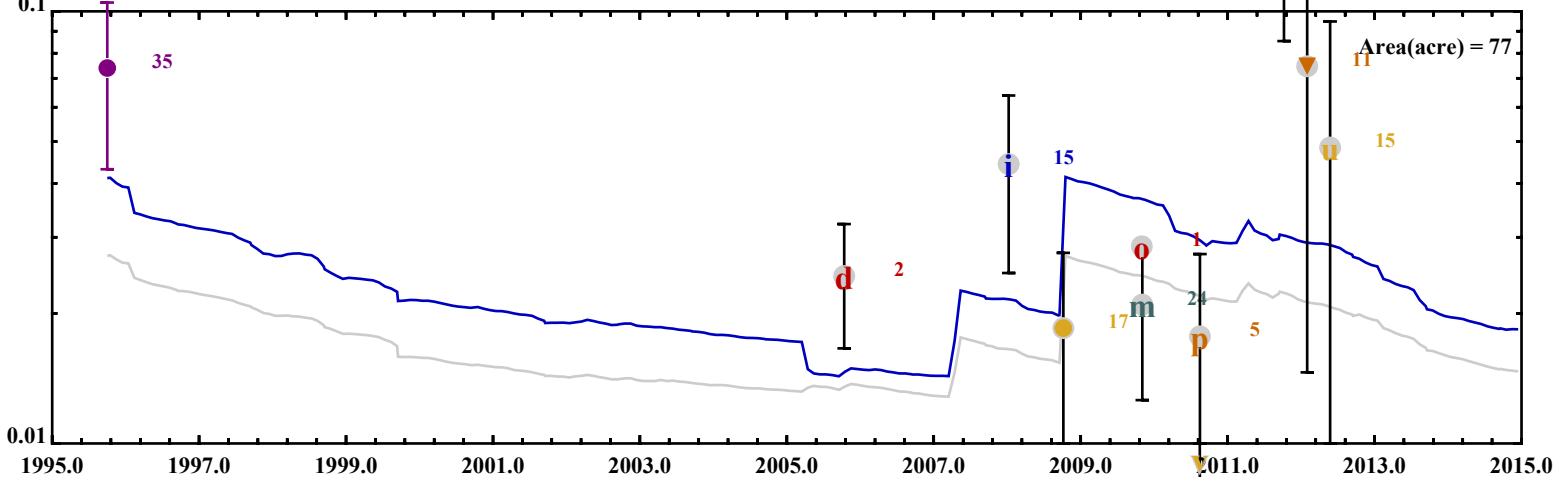
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

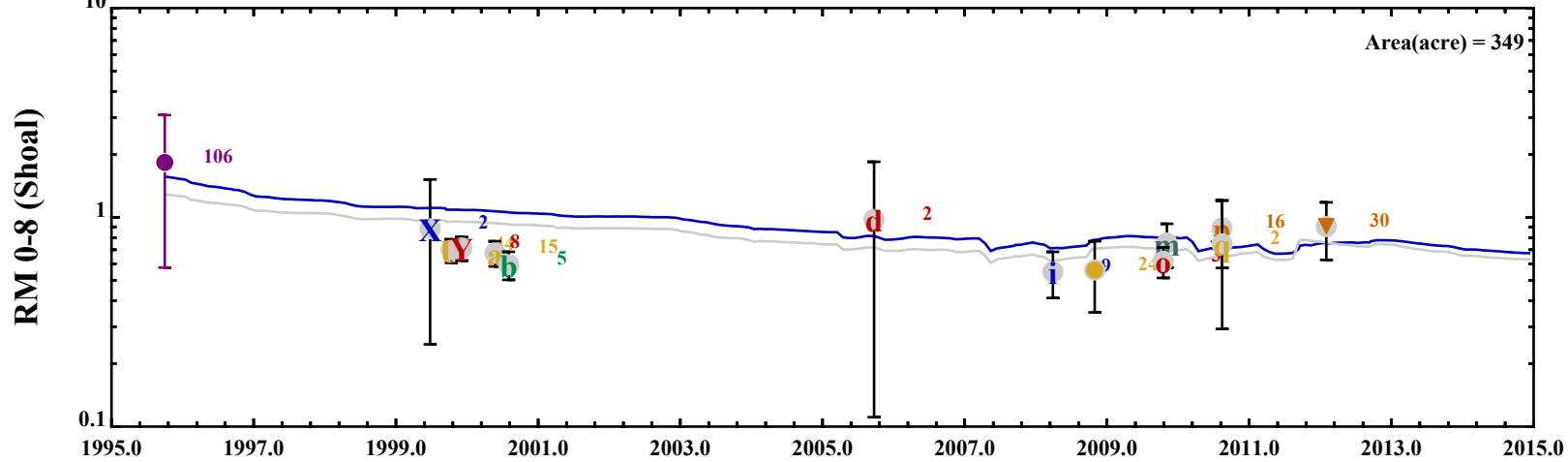
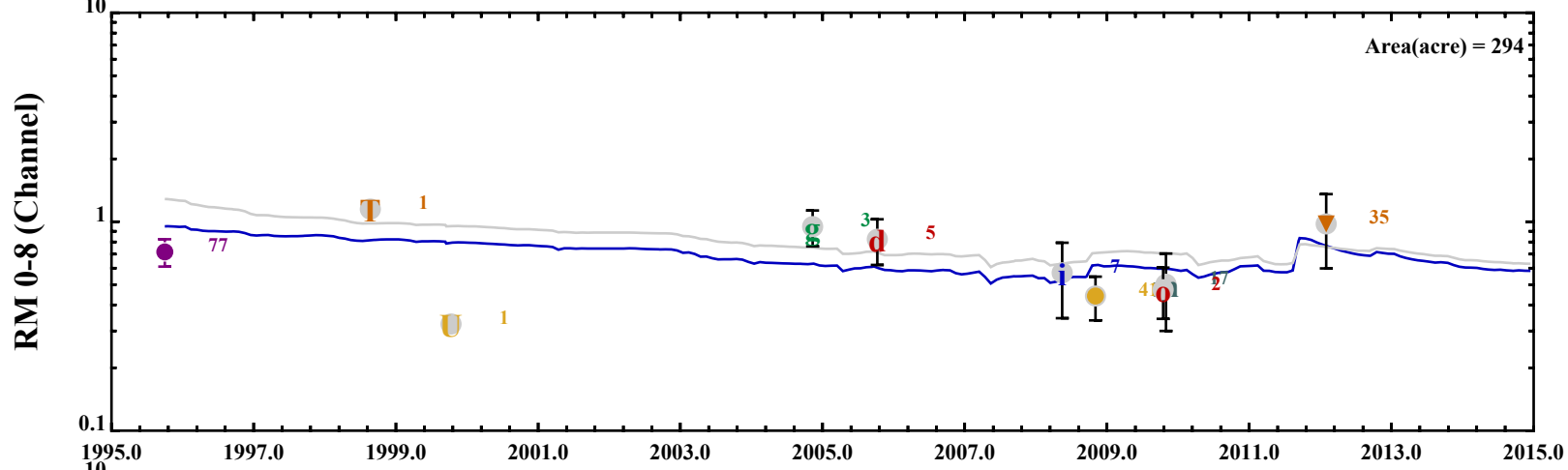
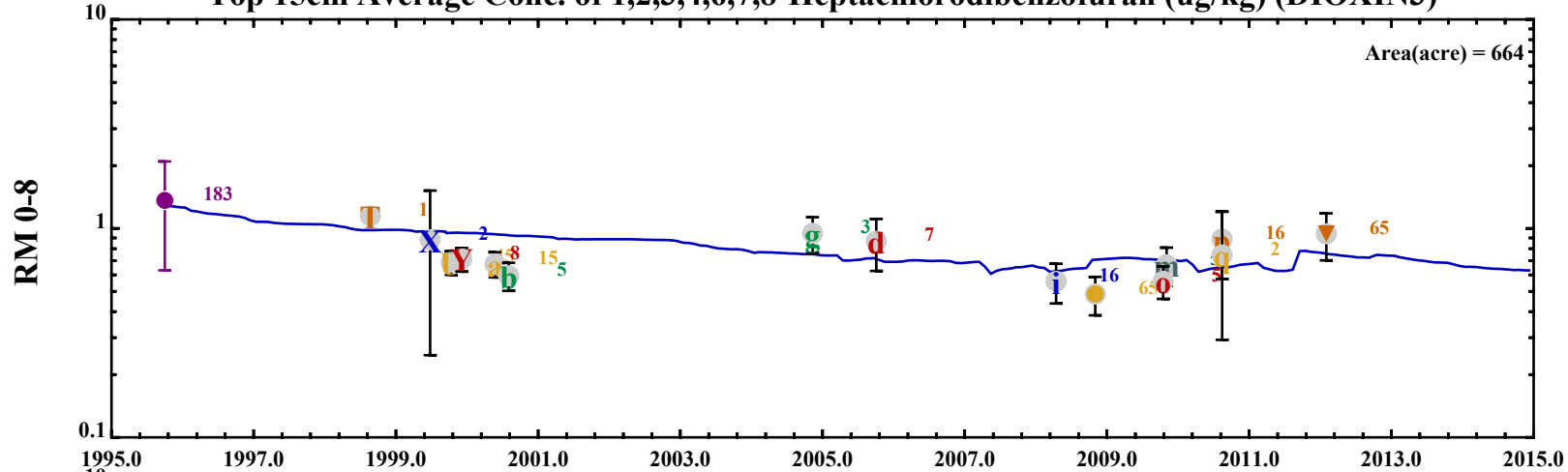


Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

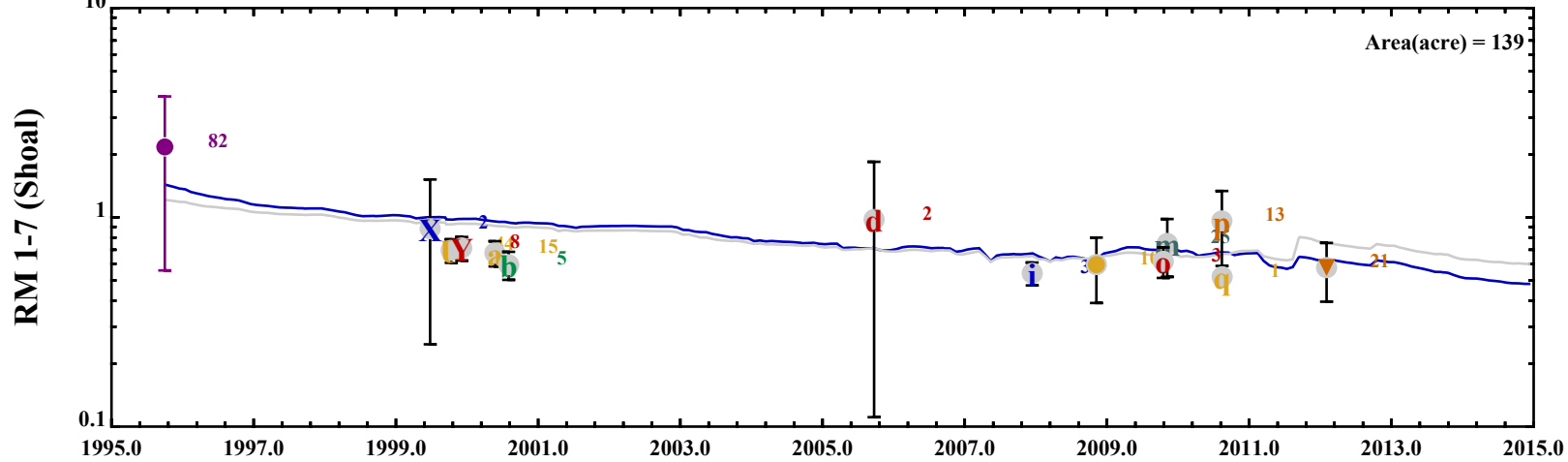
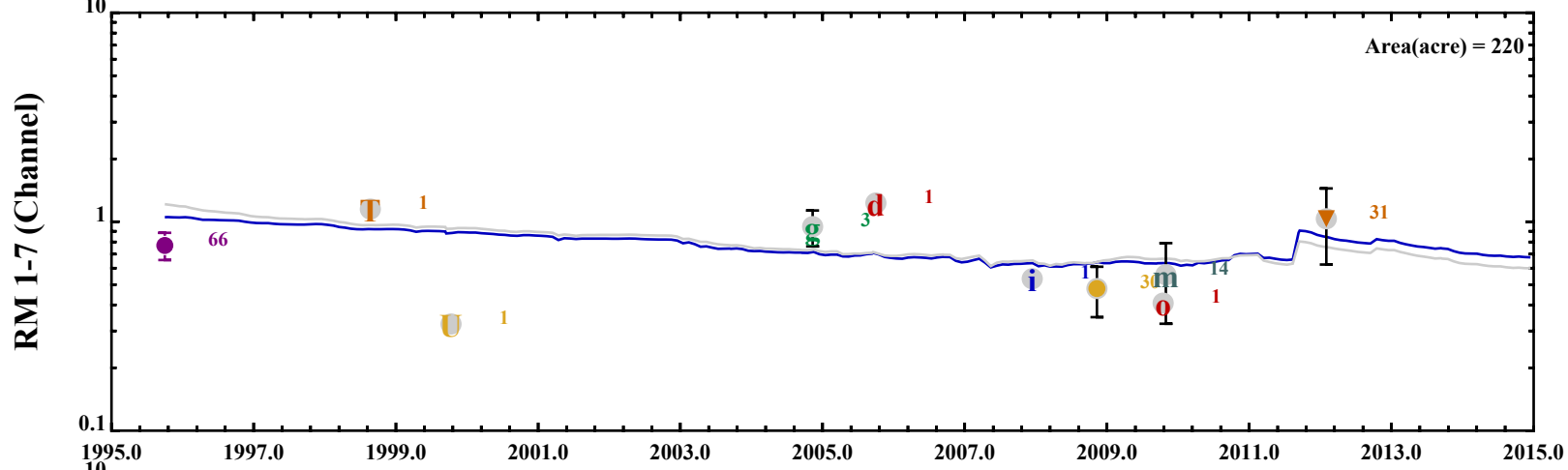
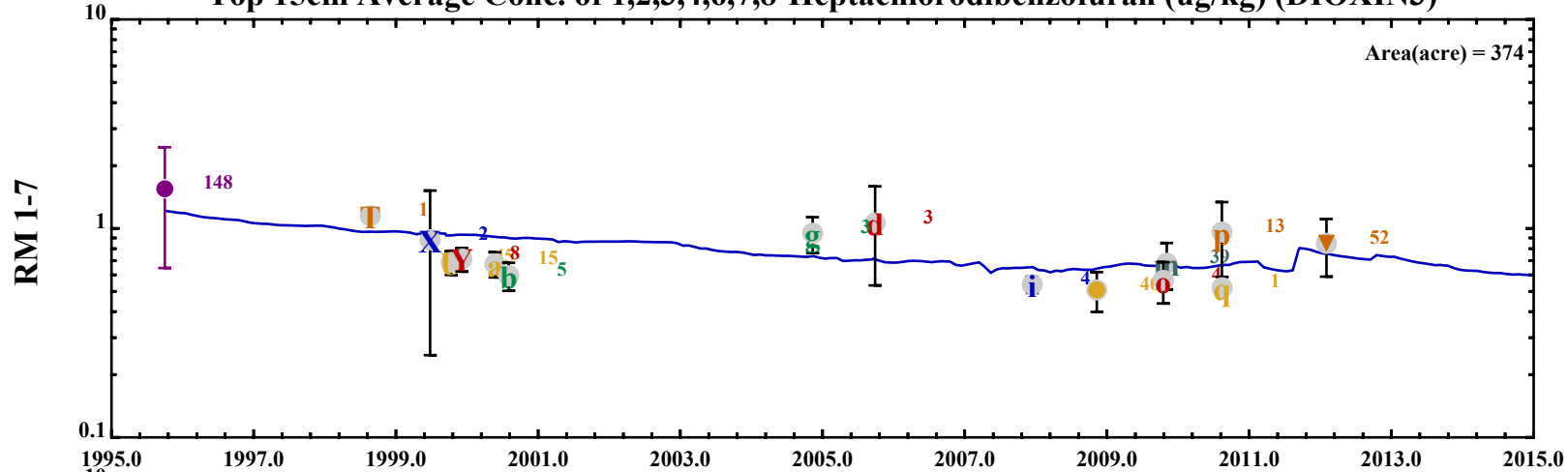
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)

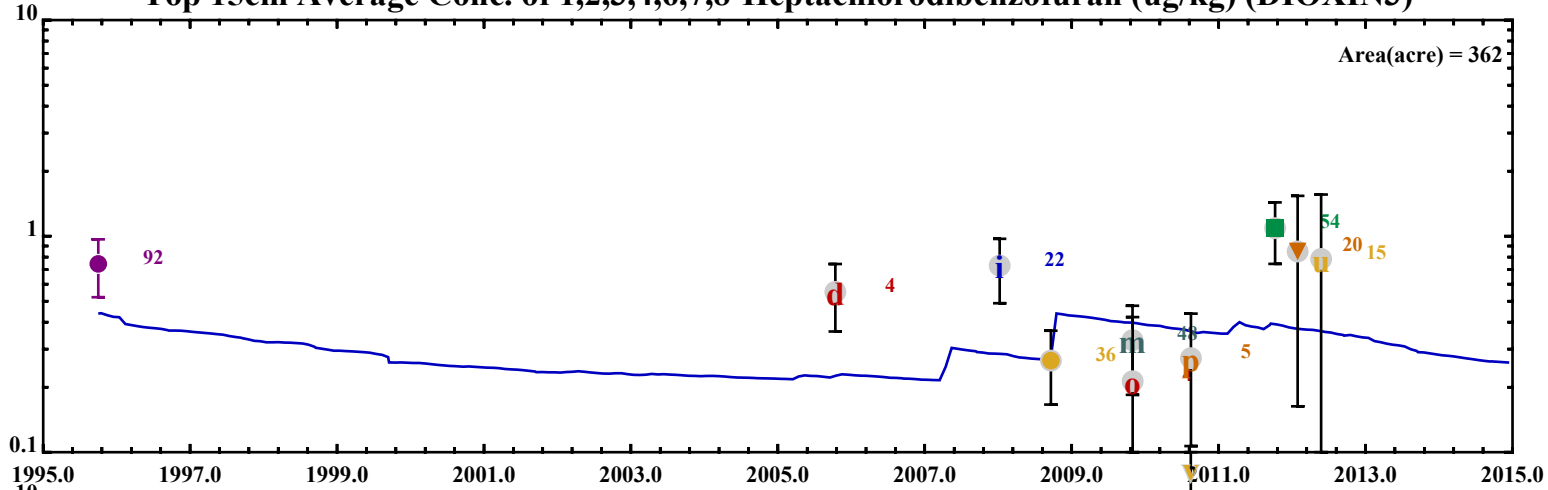


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

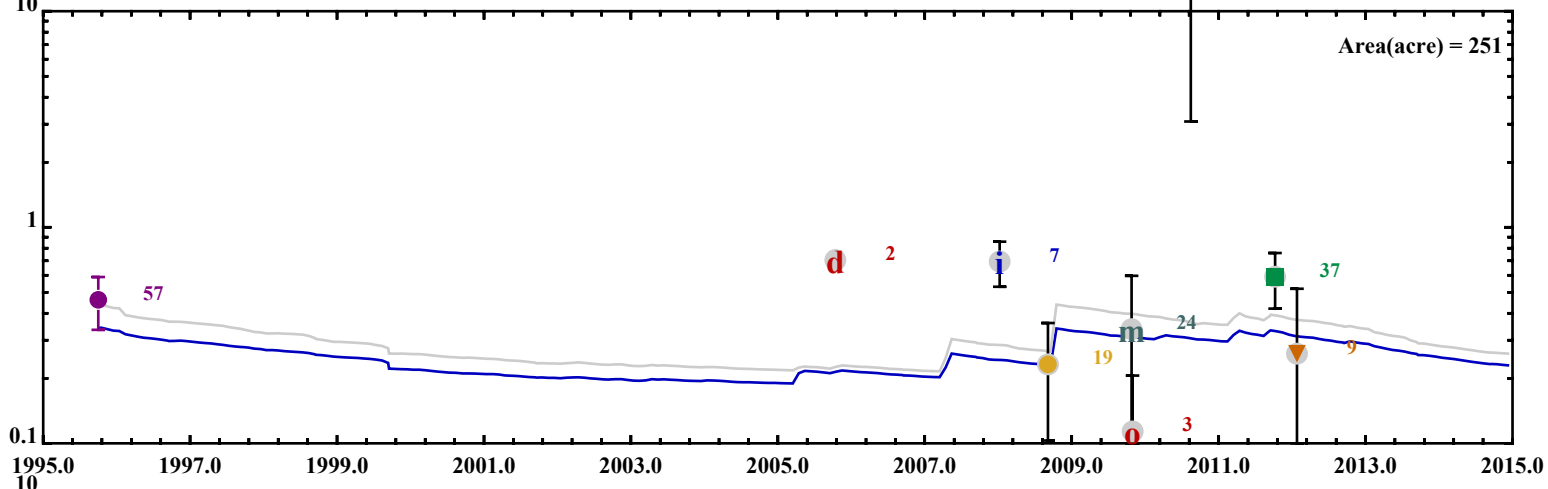
Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)

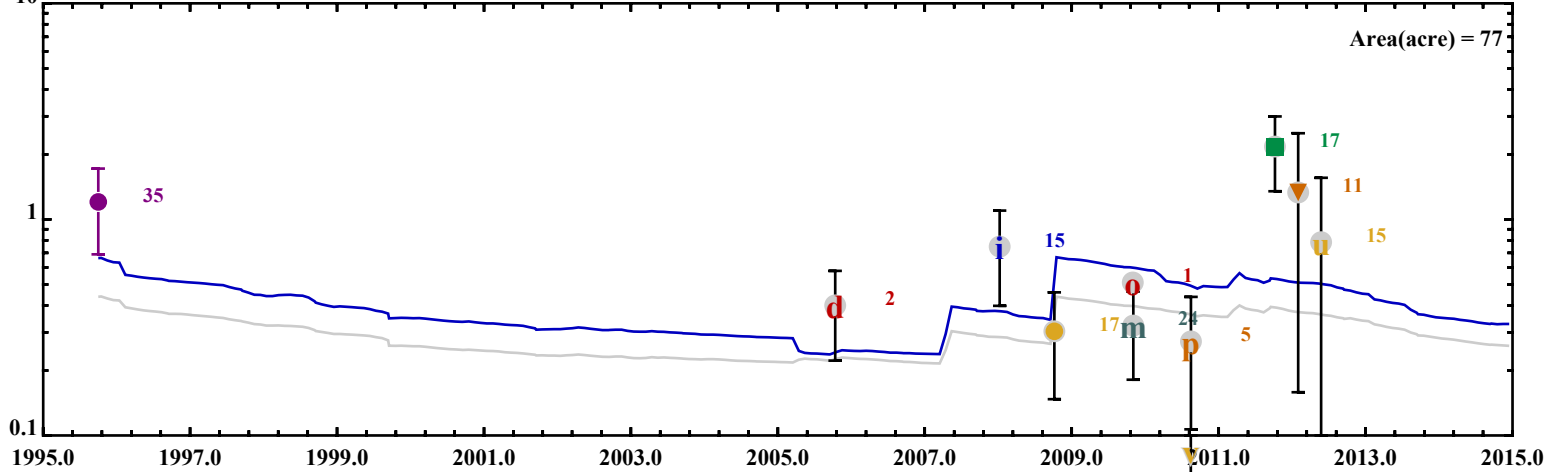
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

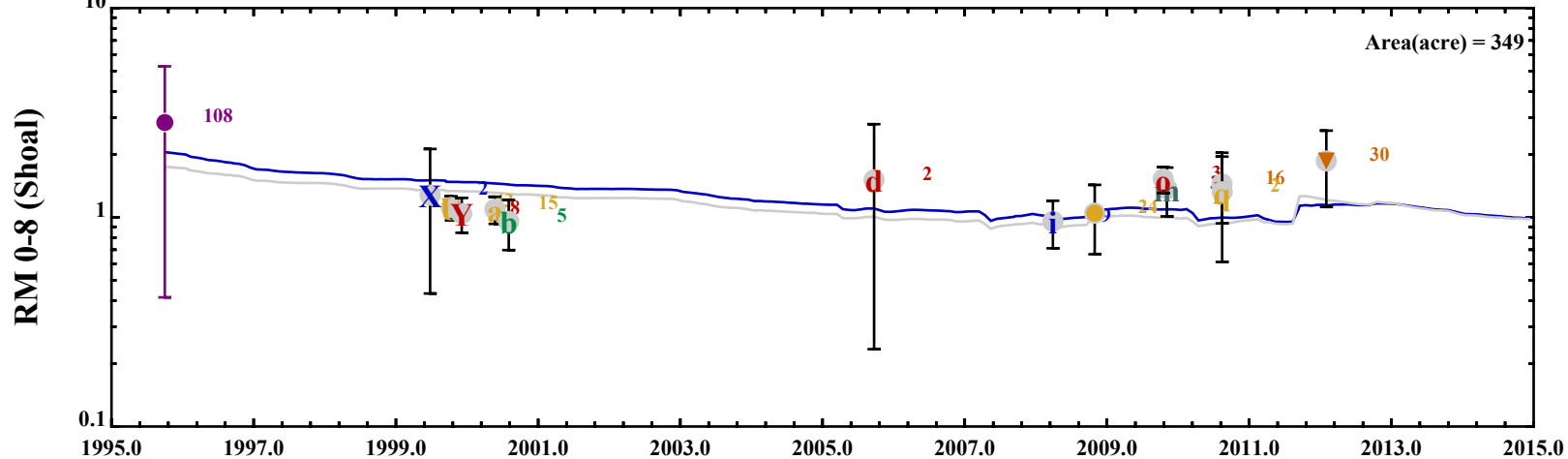
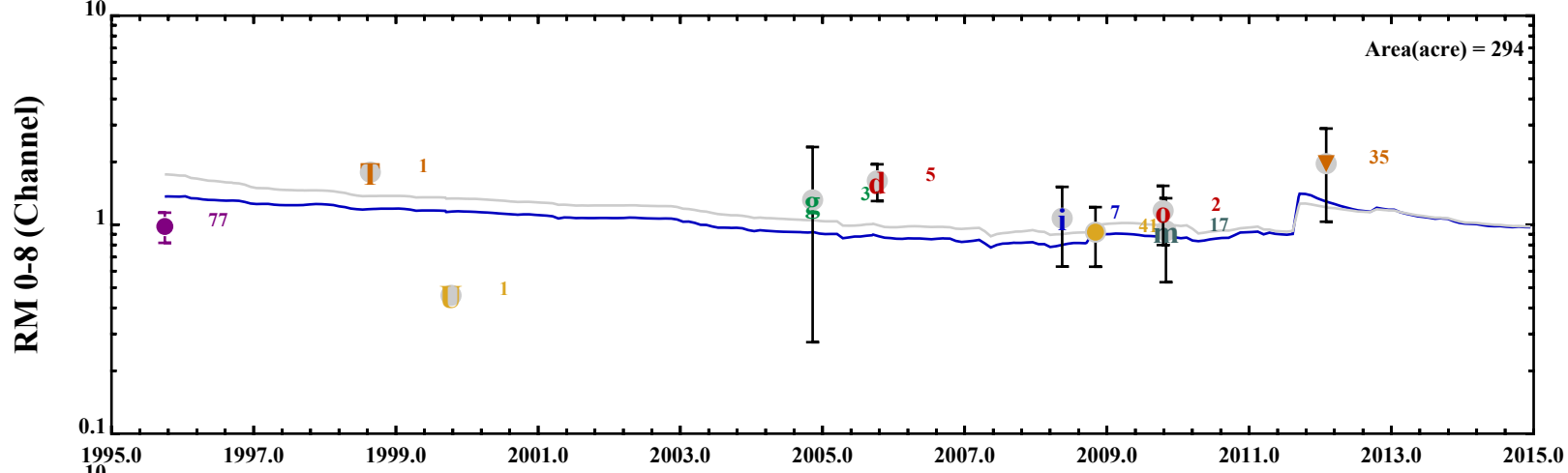
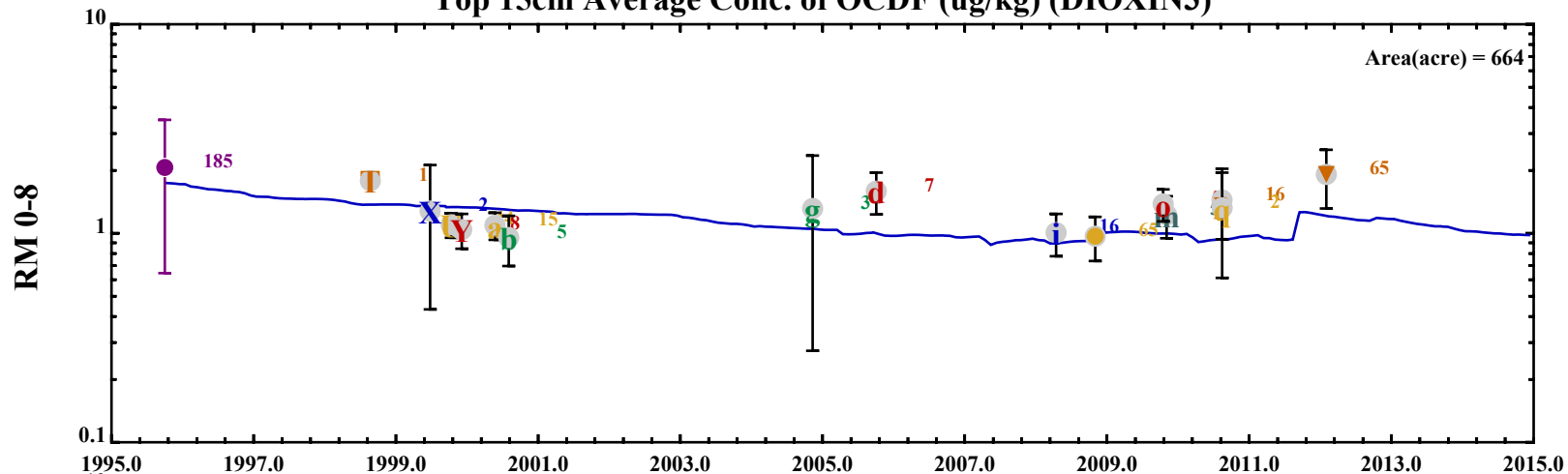


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- 1995 USACE Minish Park Investigation
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- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

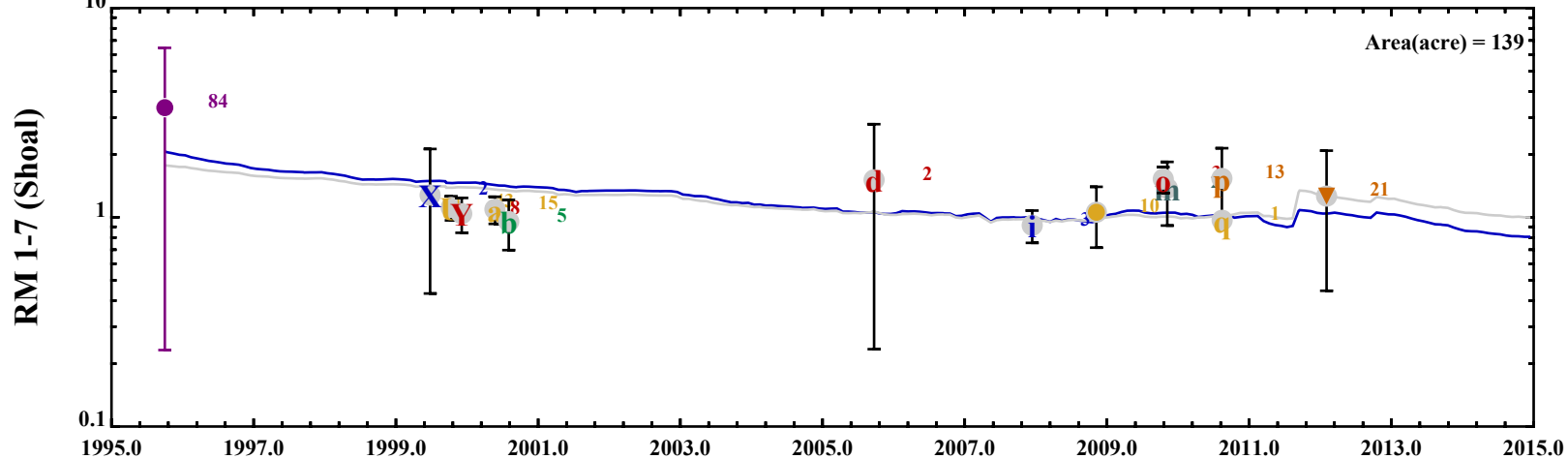
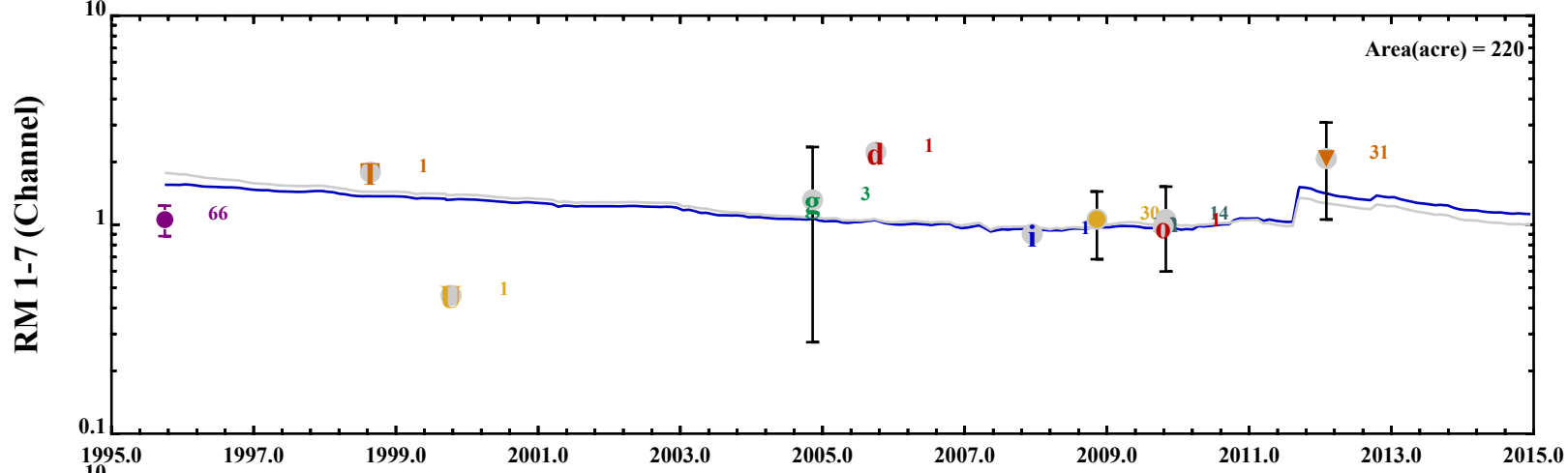
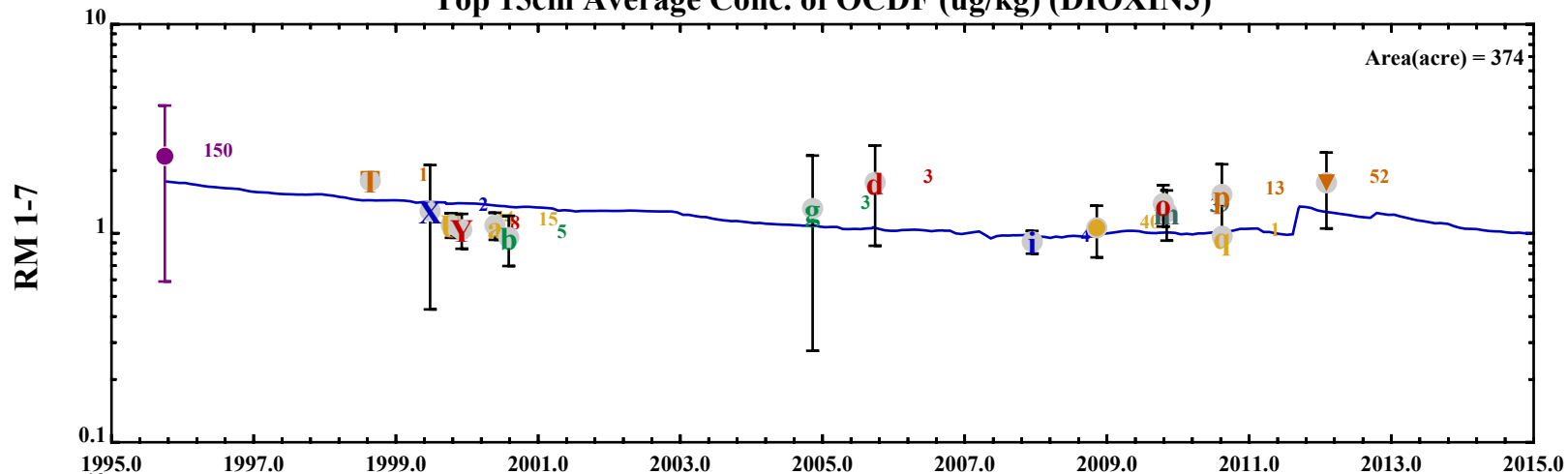
# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)

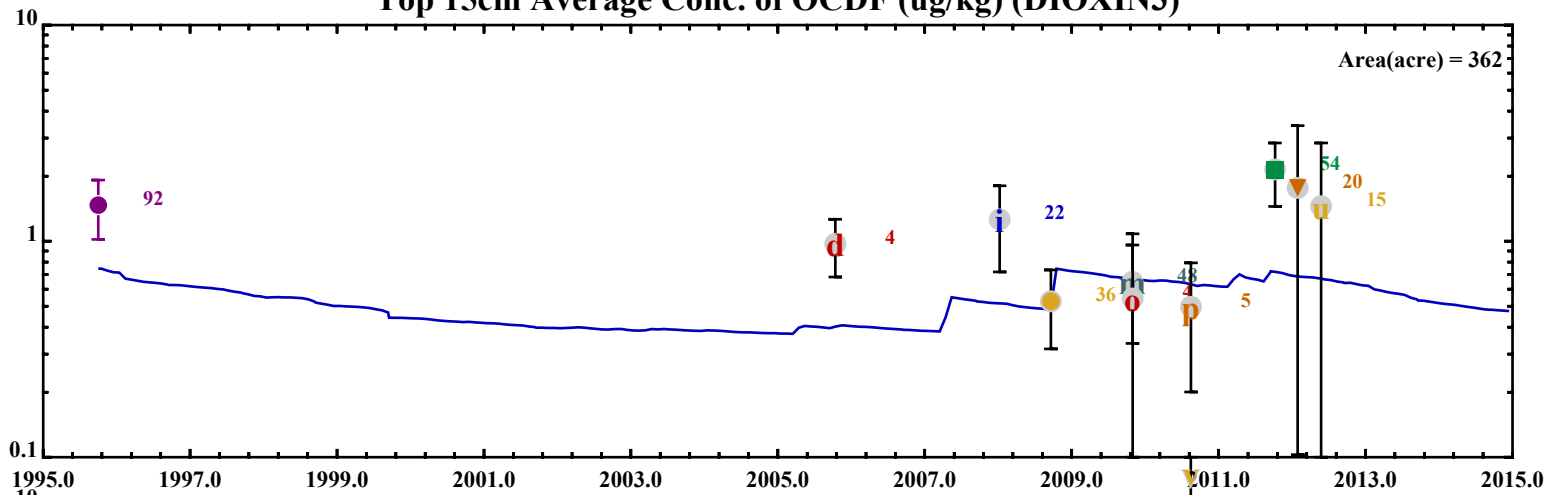


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - ▲ 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - ▲ 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - ▲ 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - ▲ 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - ▲ 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - ▲ 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - ▲ 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

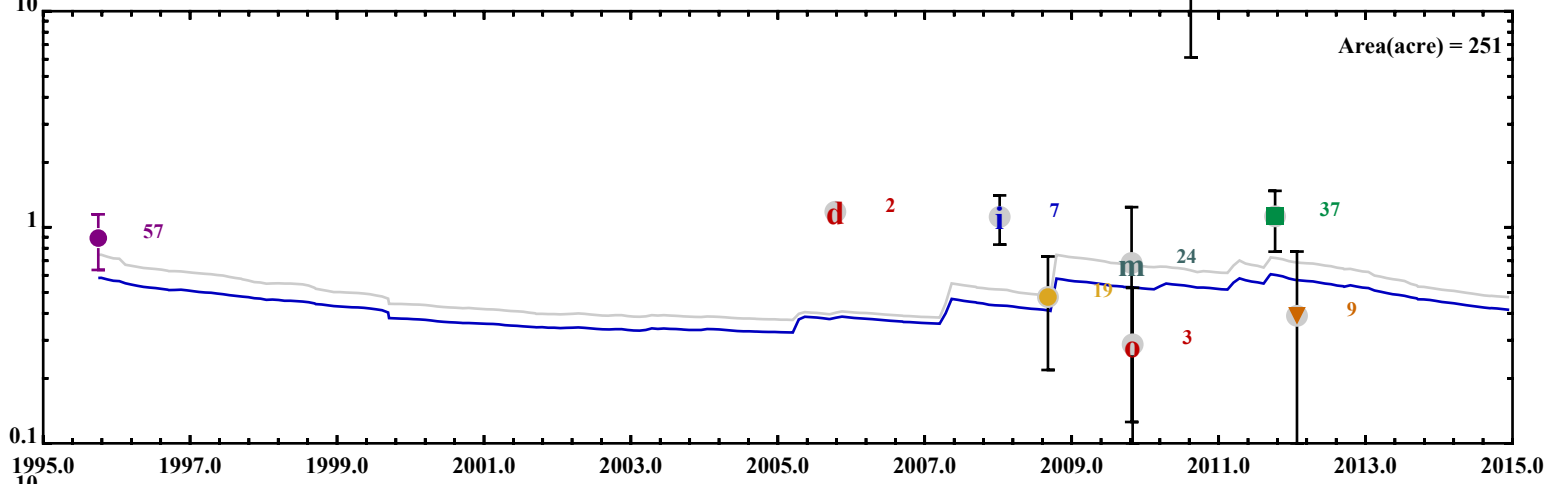
Time (Years)

# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)

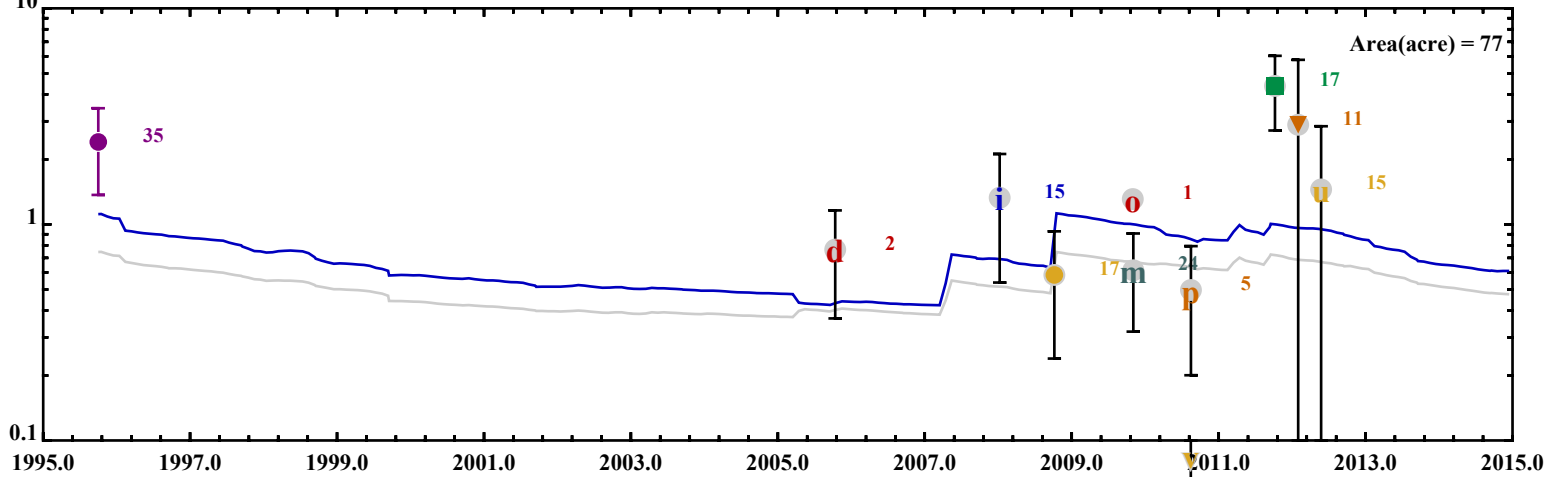
RM 8-17



RM 8-17 (Channel)



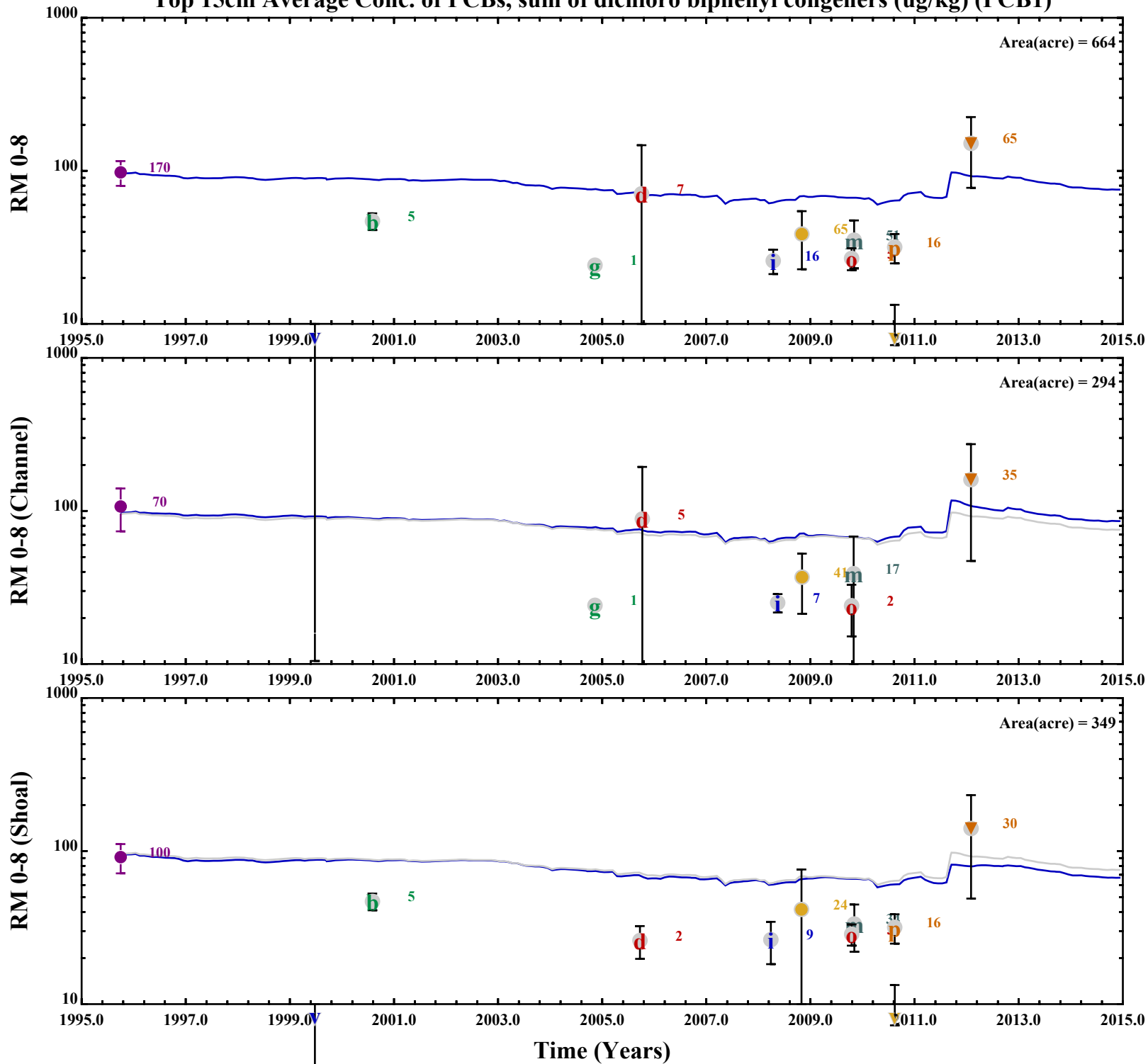
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

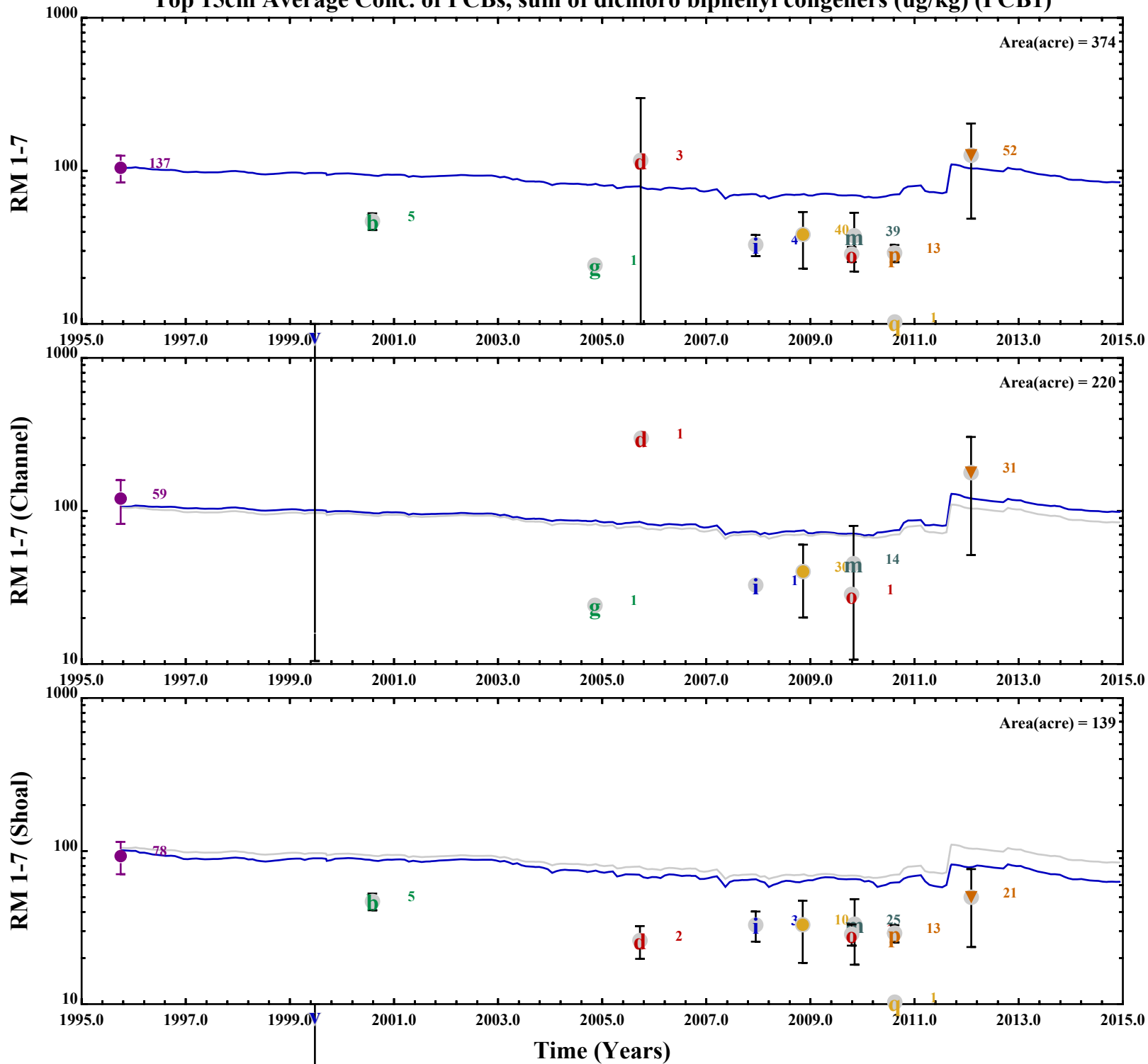
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

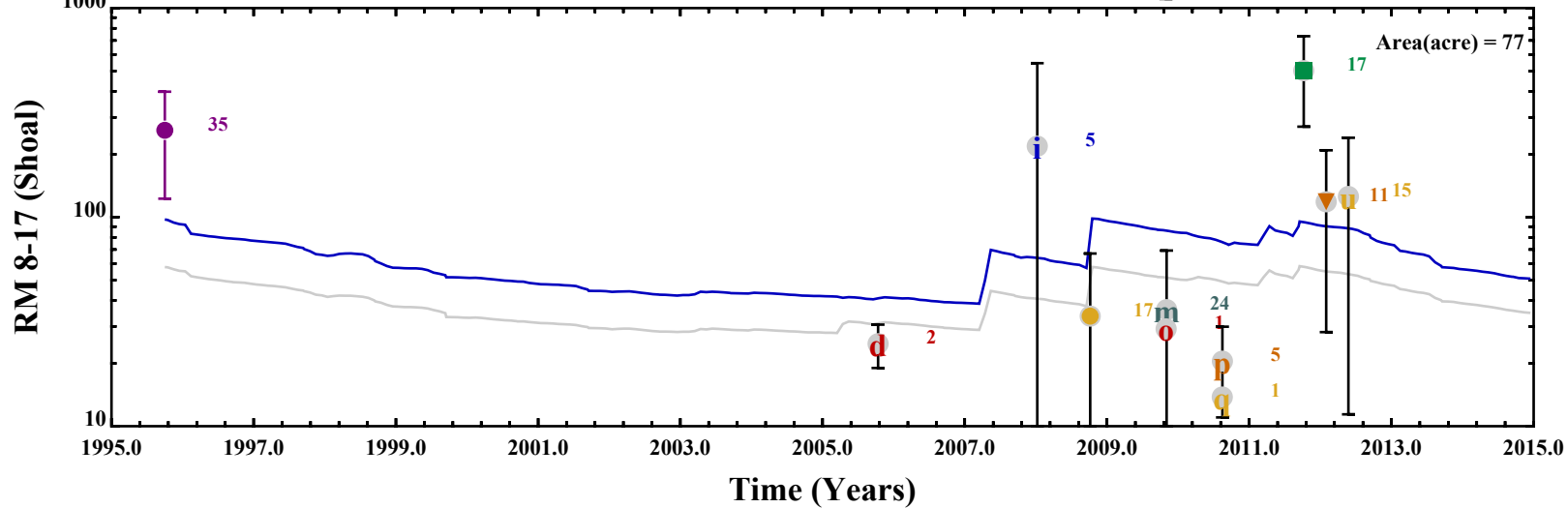
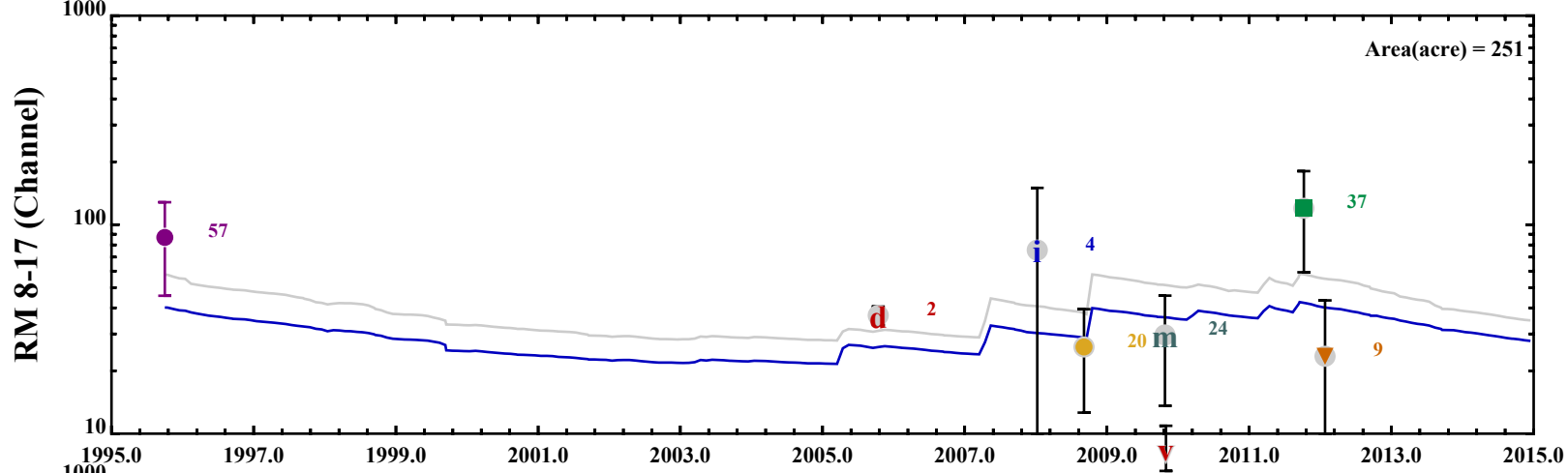
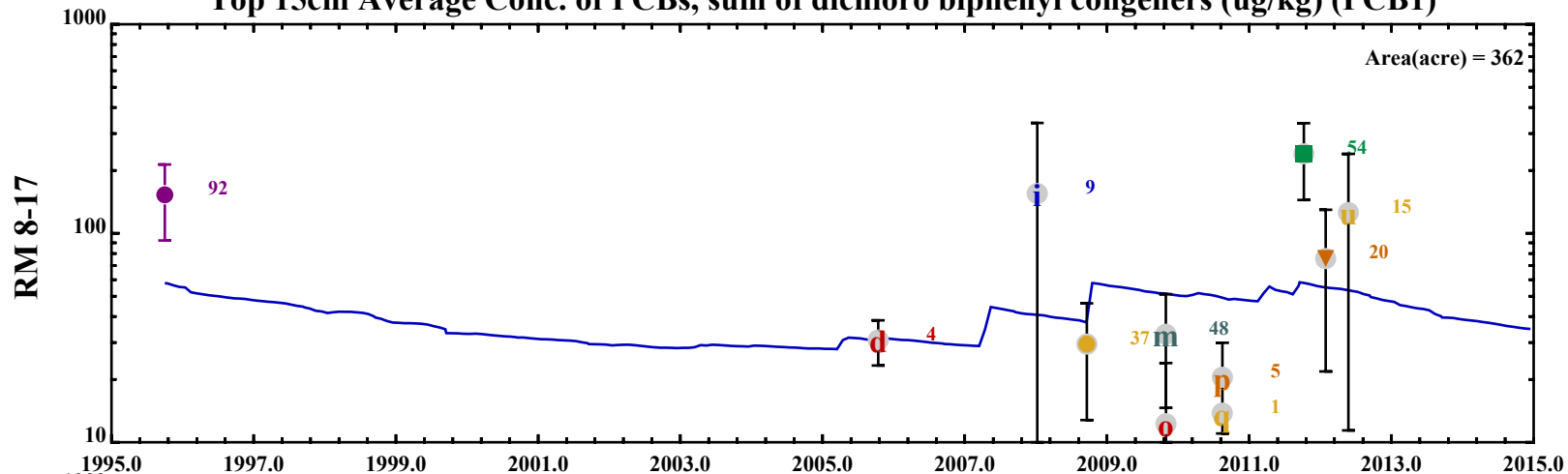
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
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  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
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  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



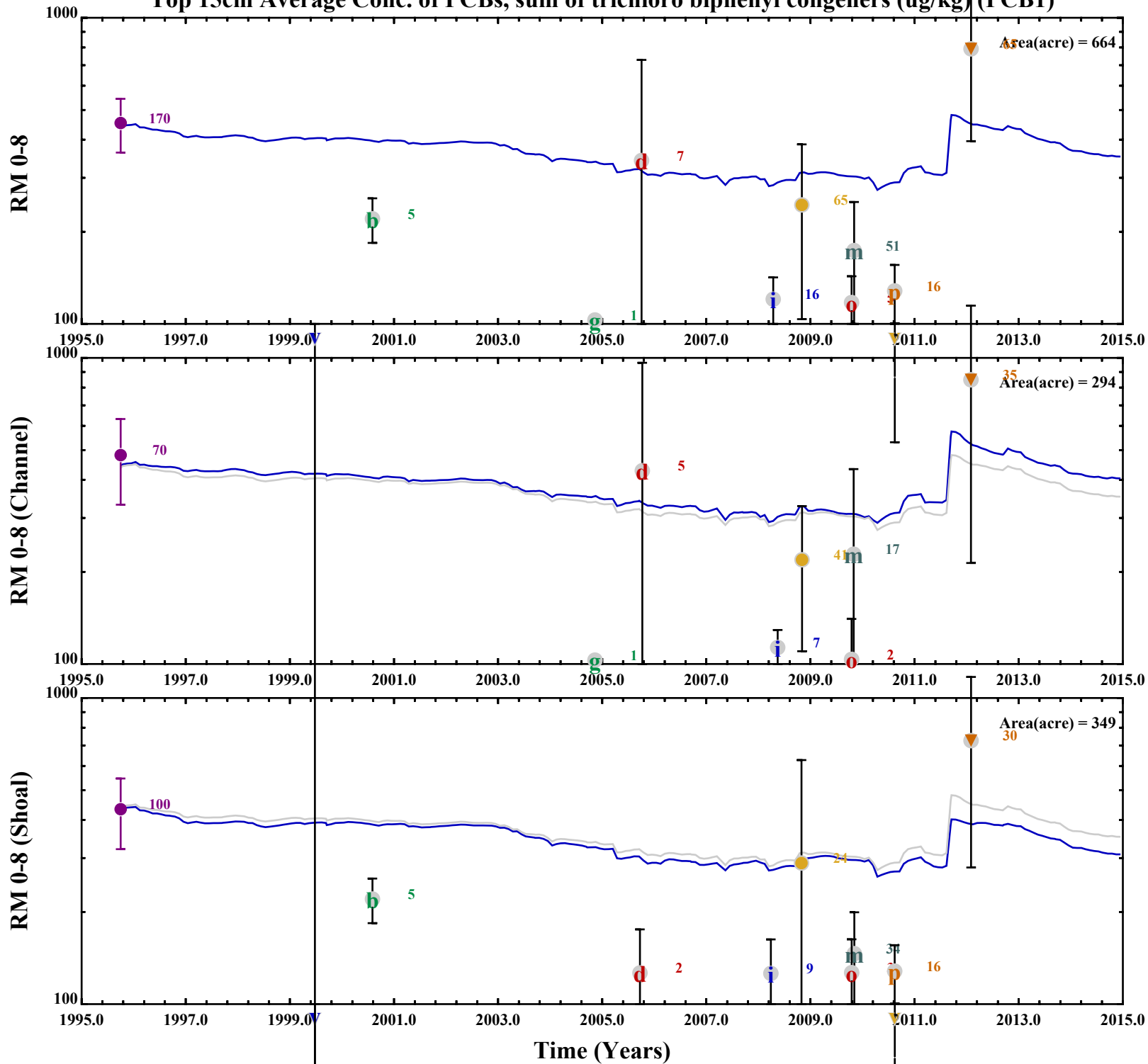
- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
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- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

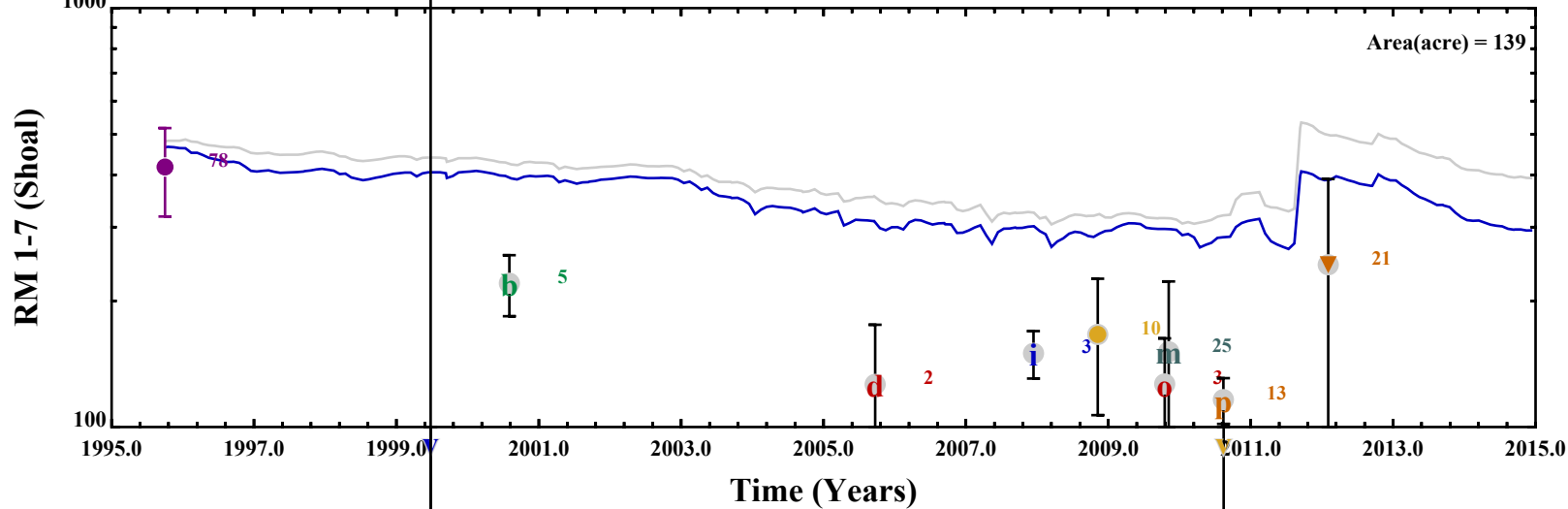
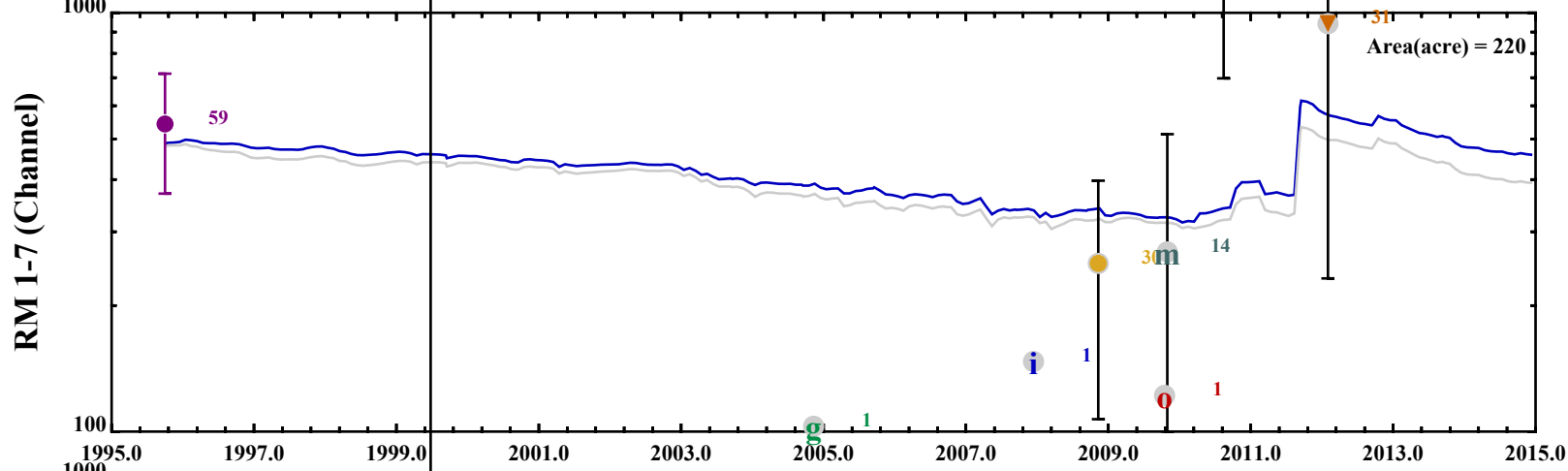
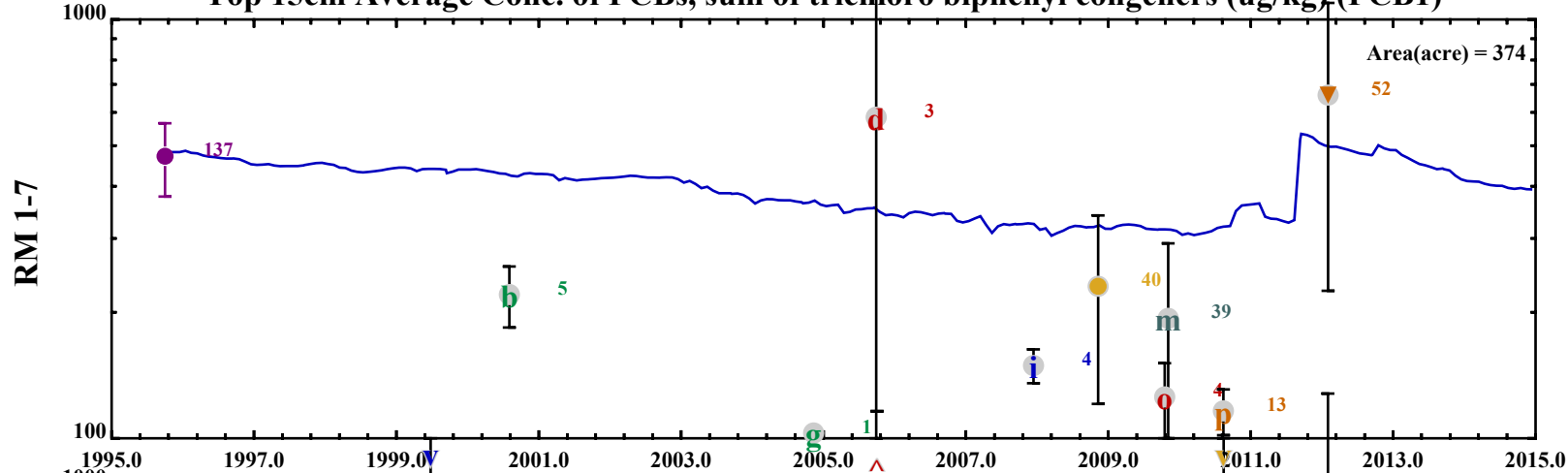
# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- E 1992 Core Sediment Investigation
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

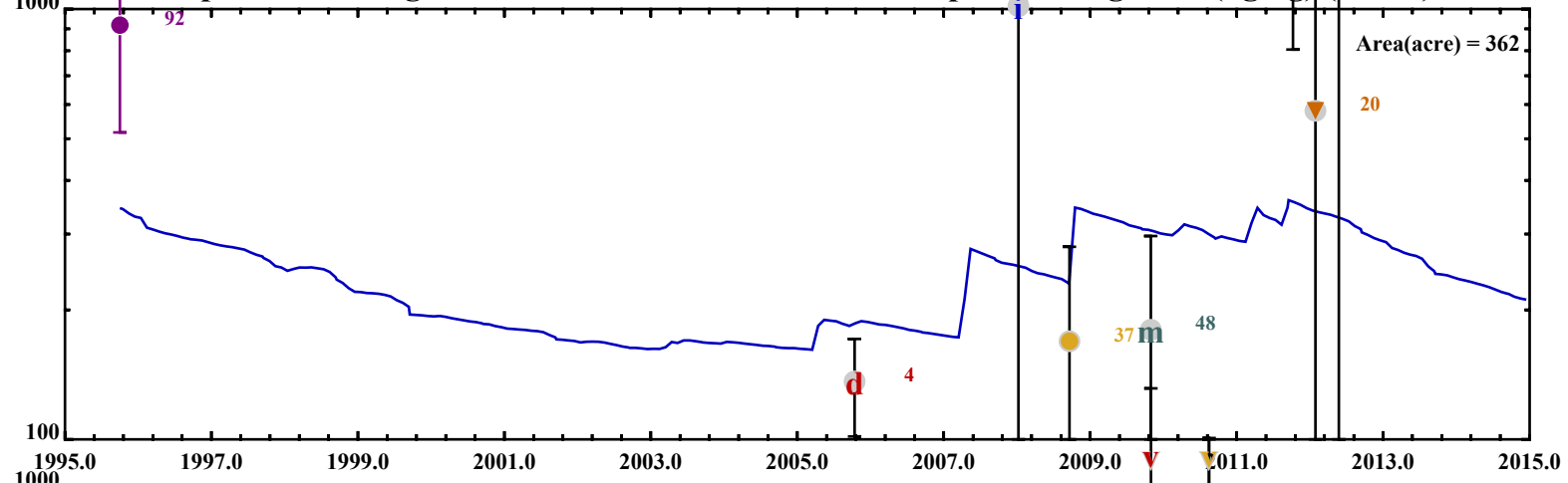


- Data used for ICs
- A 1990 Surficial Sediment Investigation
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- E 1992 Core Sediment Investigation
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- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
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- a 2000 Spring ESP Sampling Program
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- g 1999-2006 Honeywell Intl Sampling
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

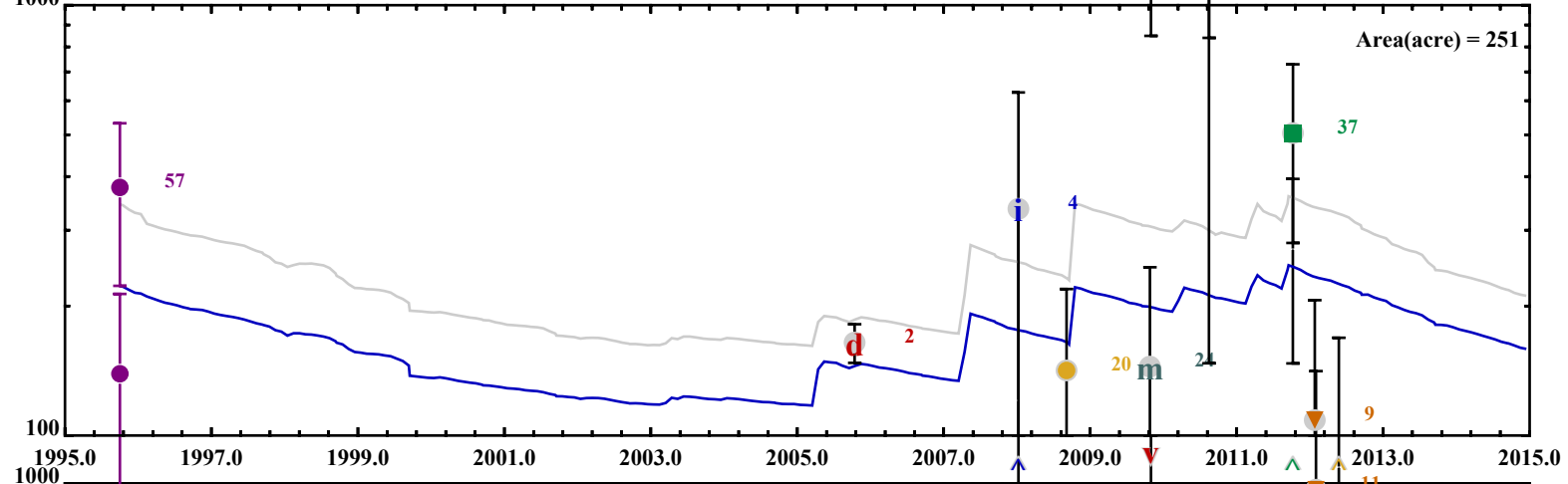
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

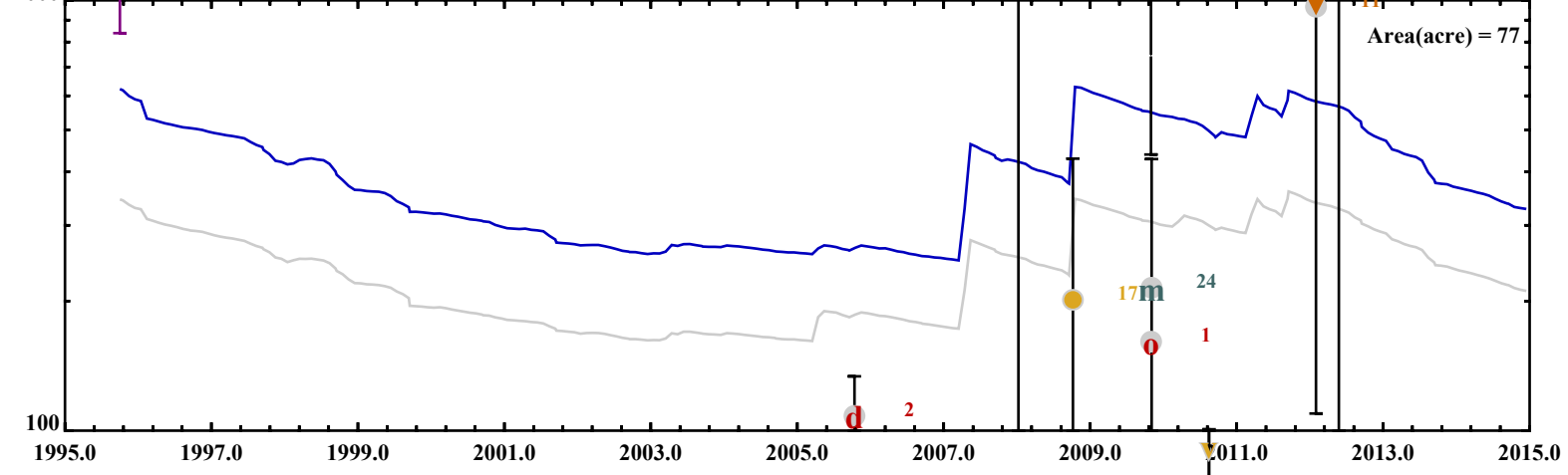
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)



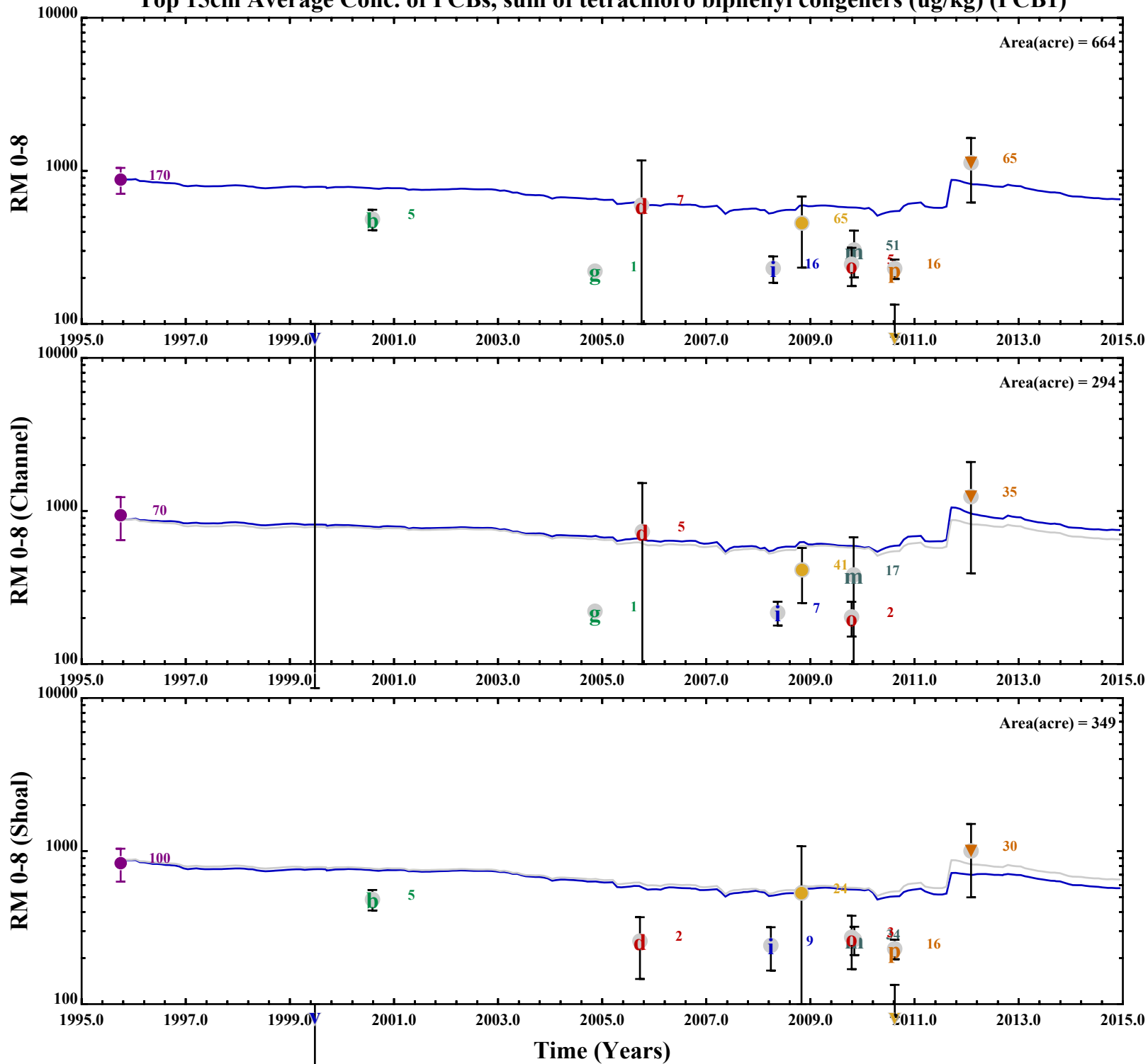
Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

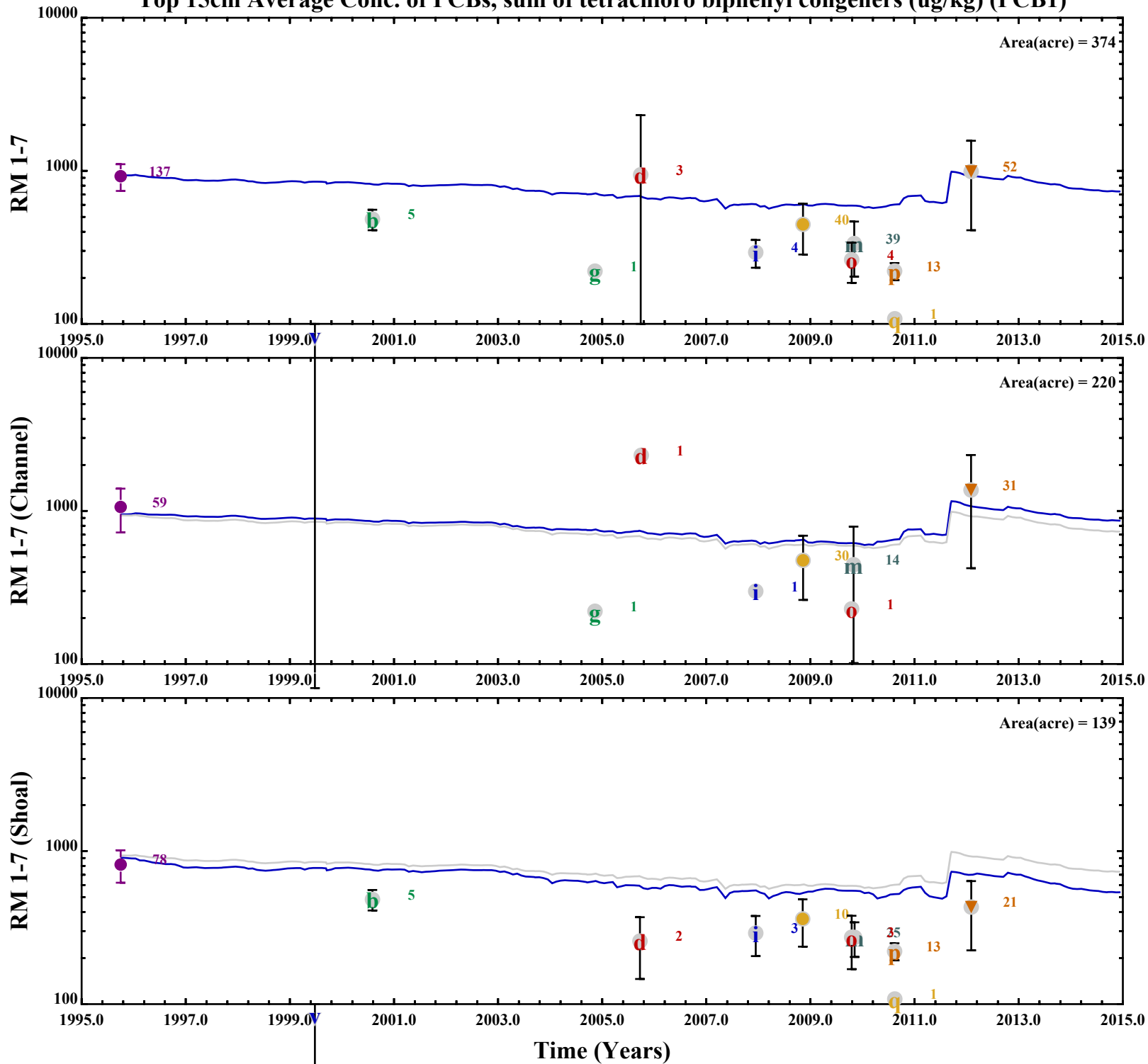


# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



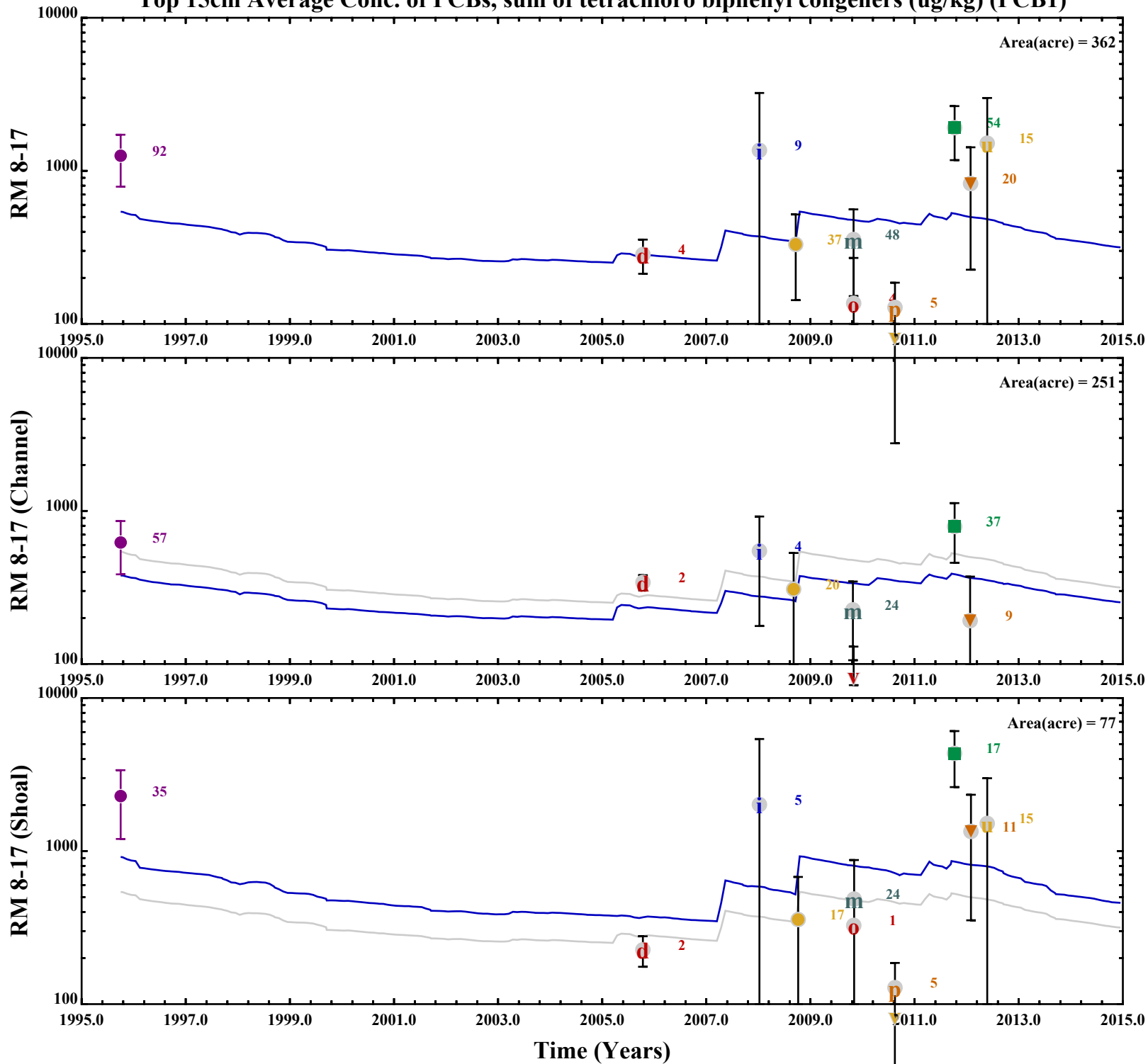
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
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  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



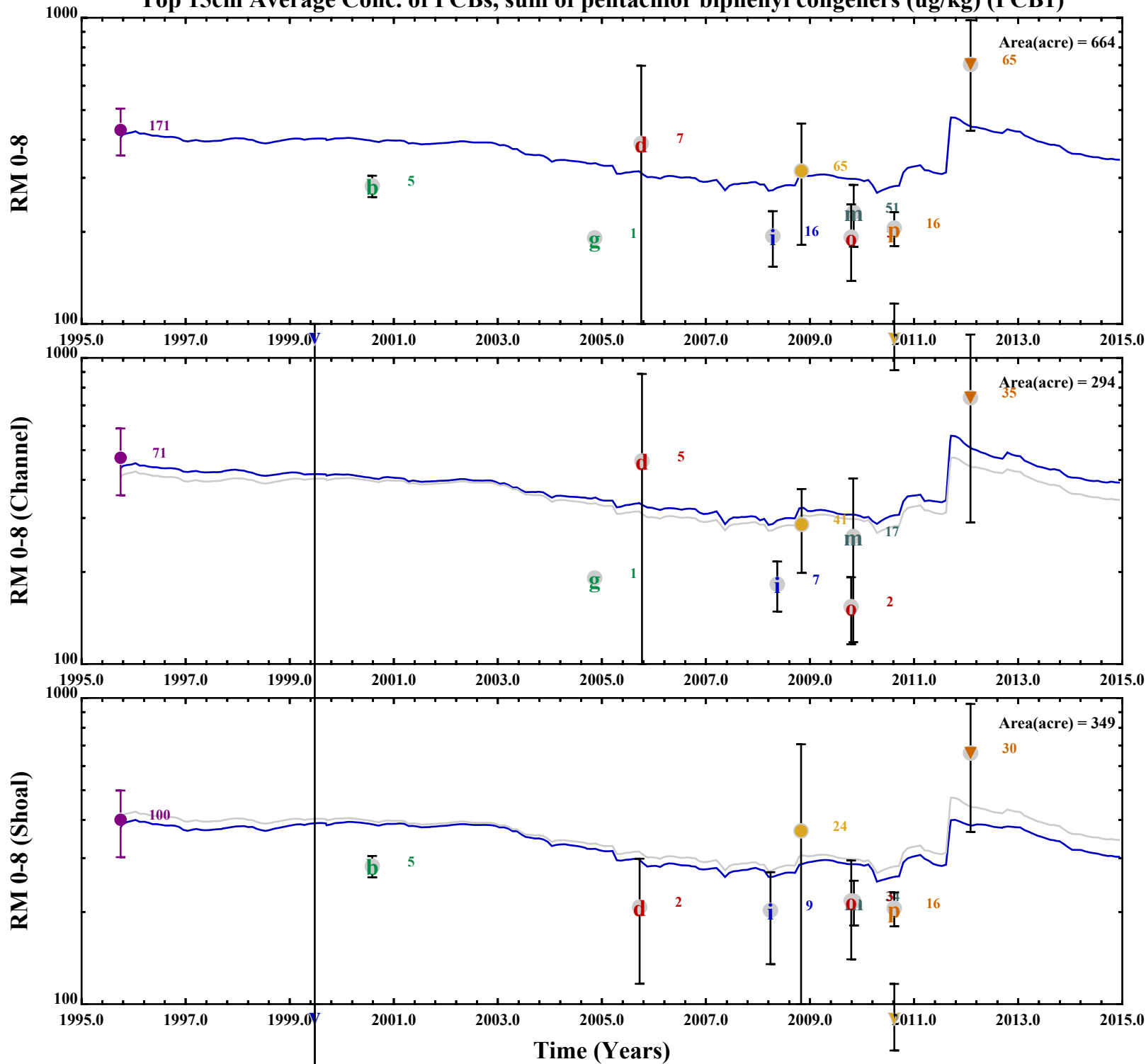
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

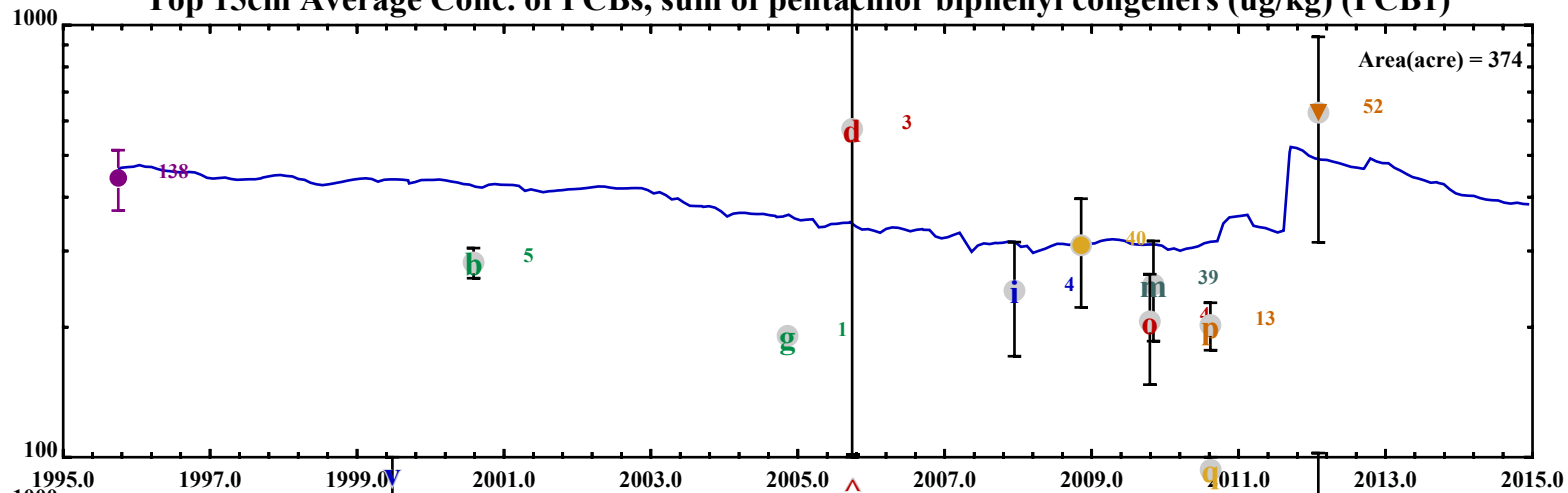
# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



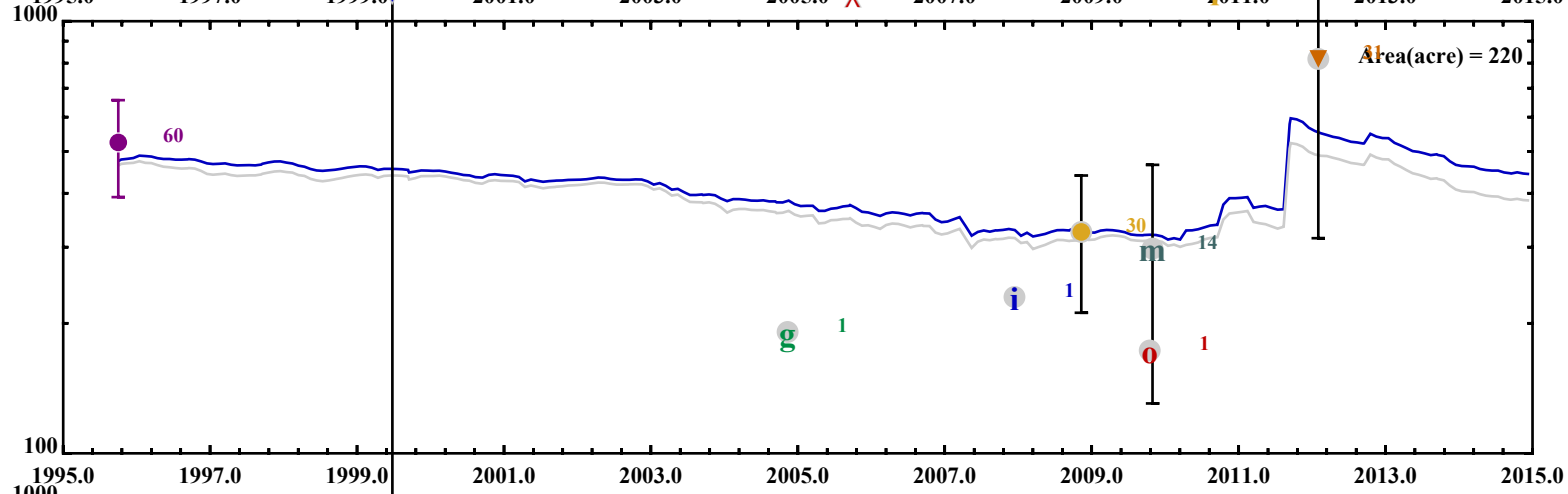
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

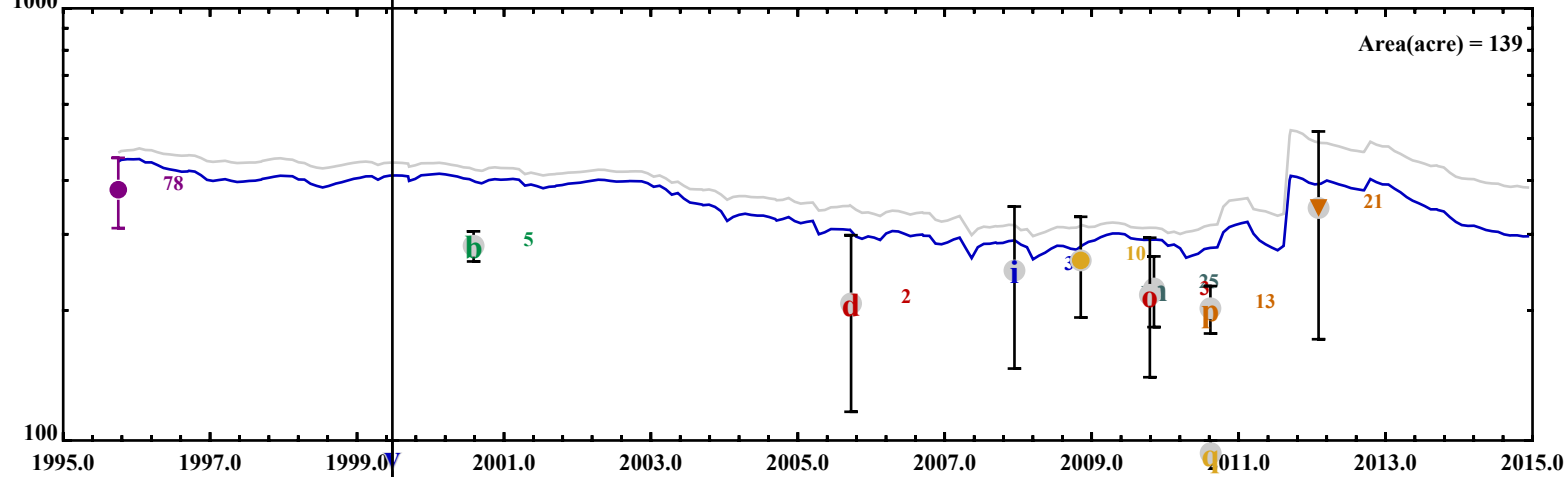
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

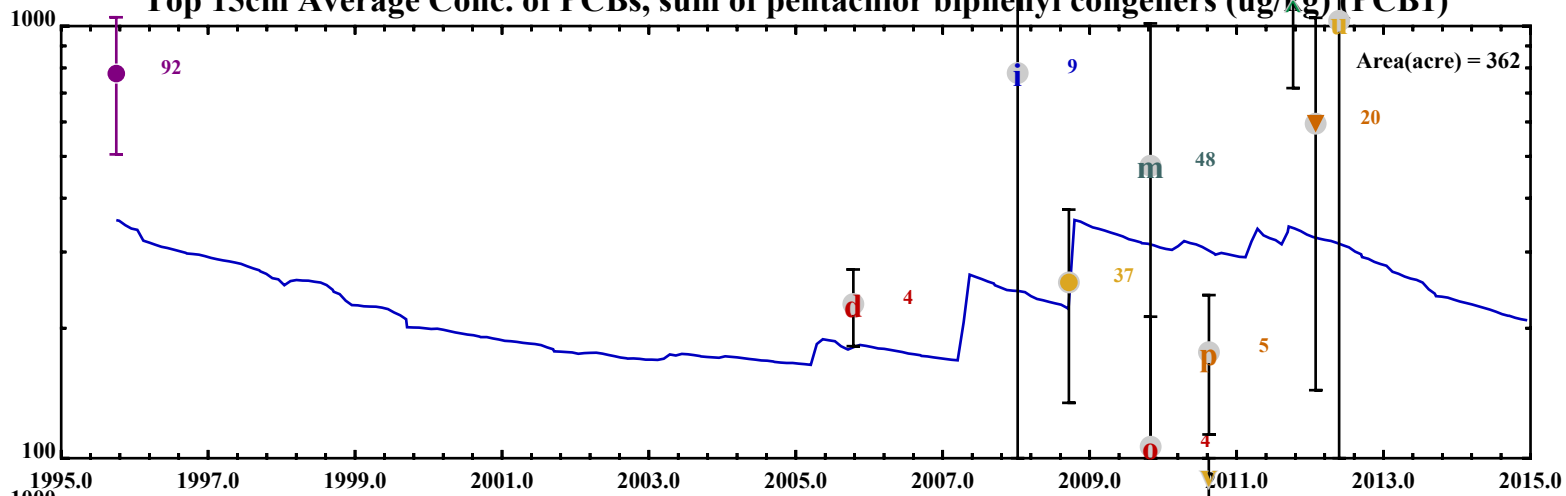


Time (Years)

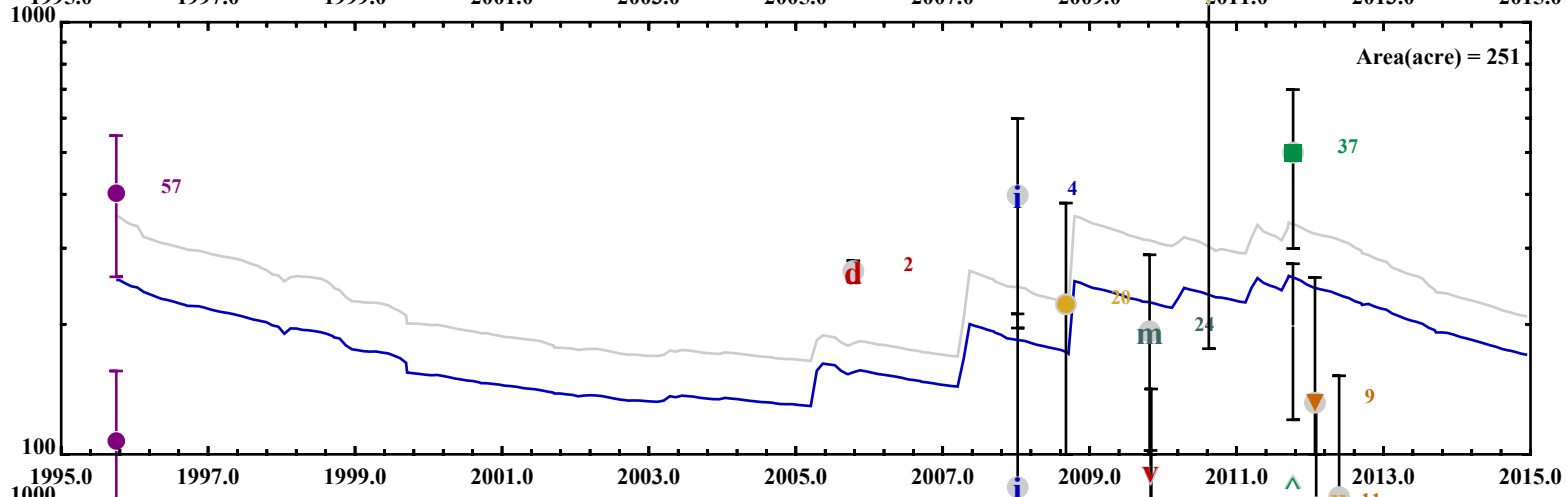
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

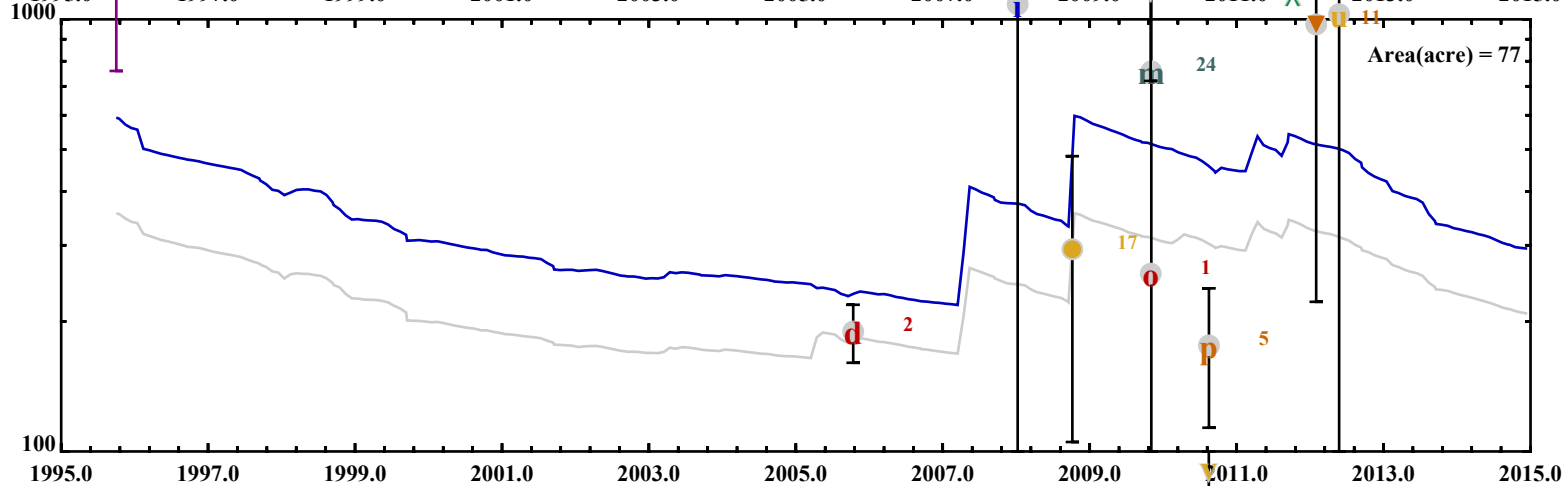
RM 8-17



RM 8-17 (Channel)



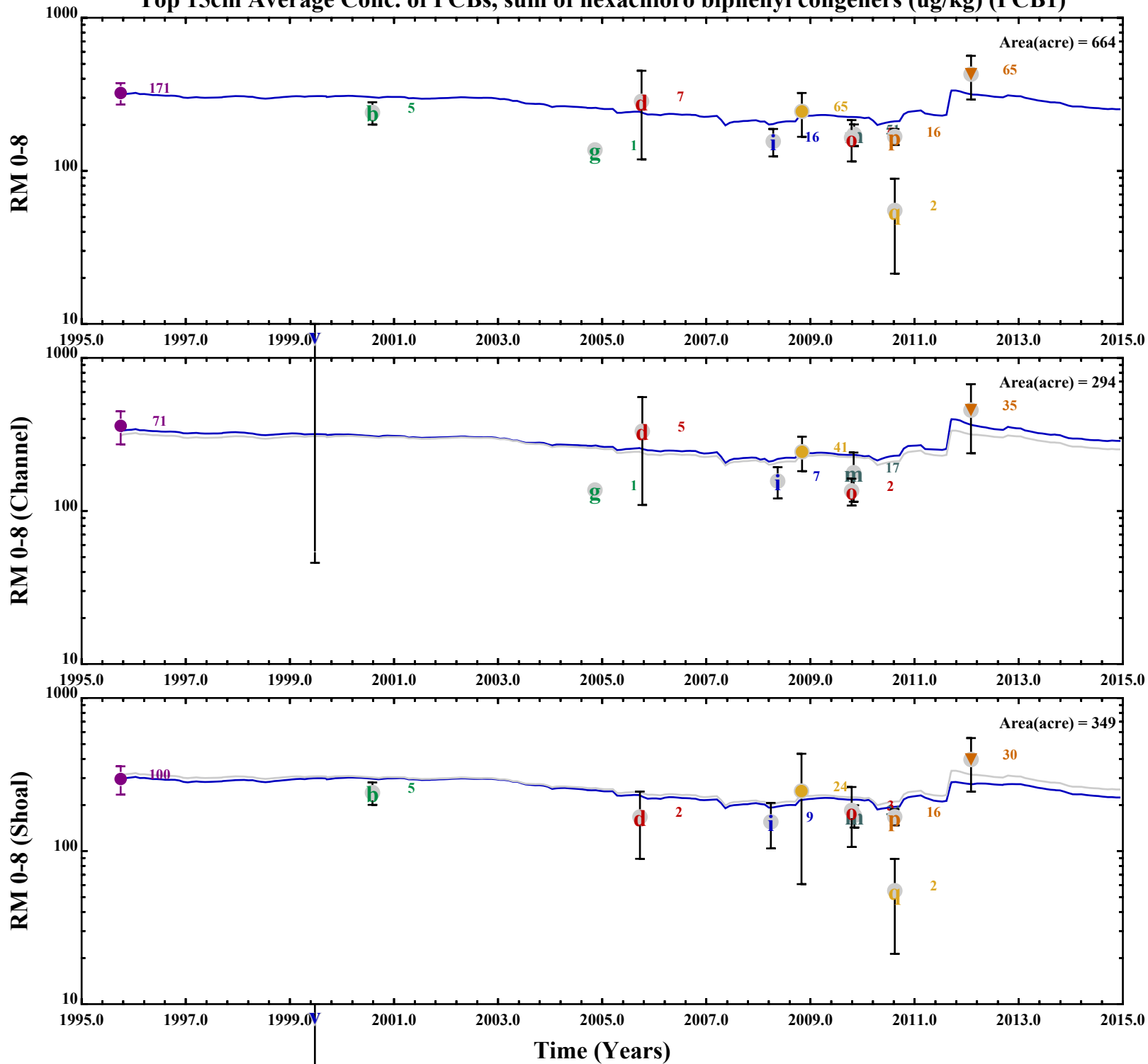
RM 8-17 (Shoal)



Time (Years)

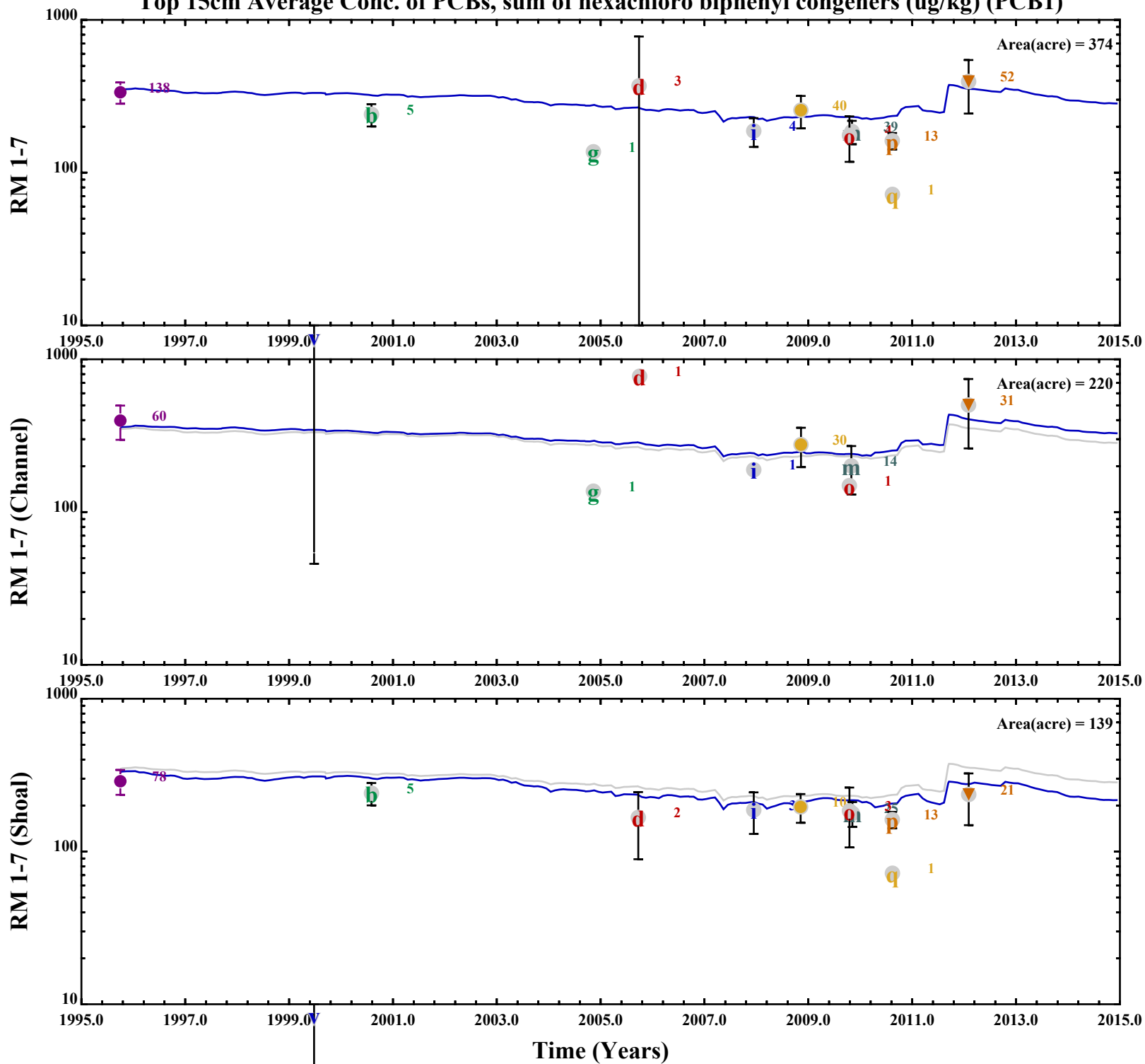
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

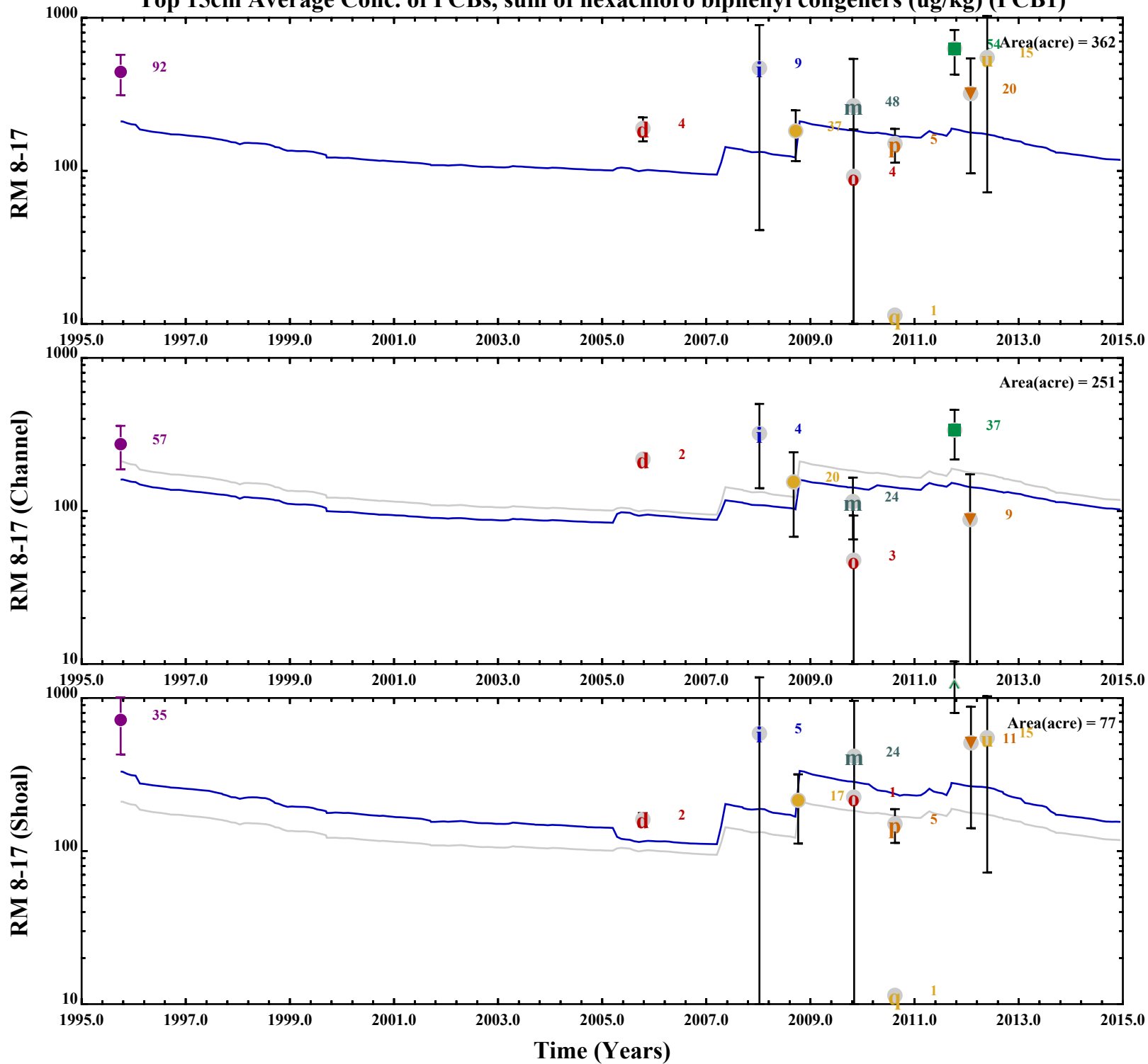
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)



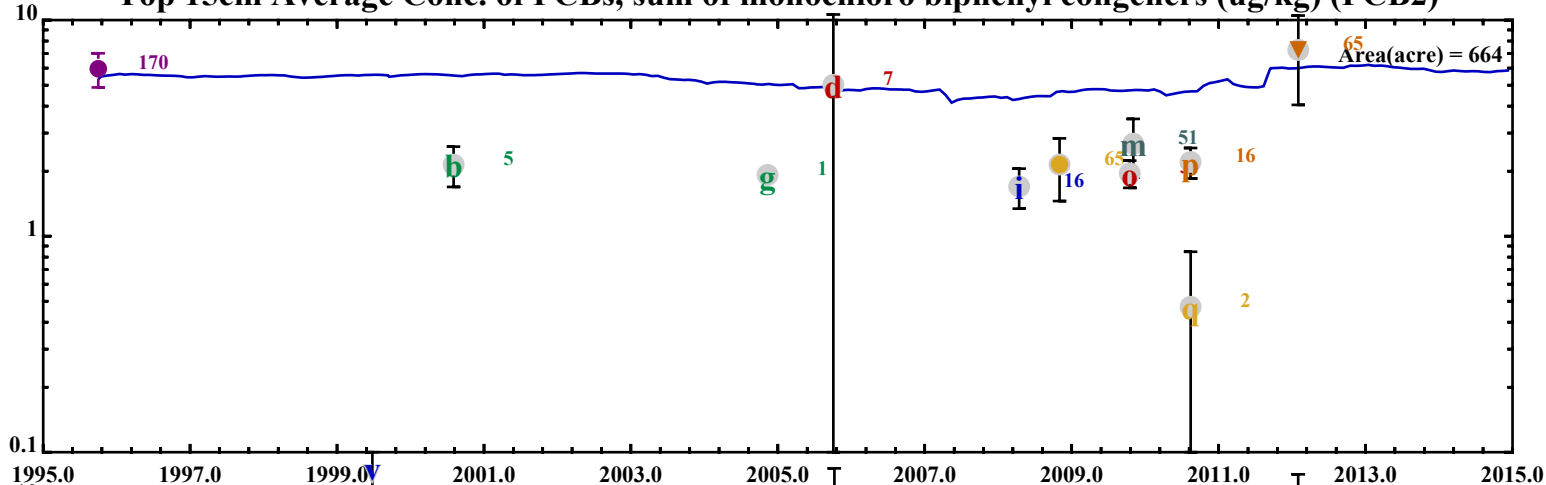
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



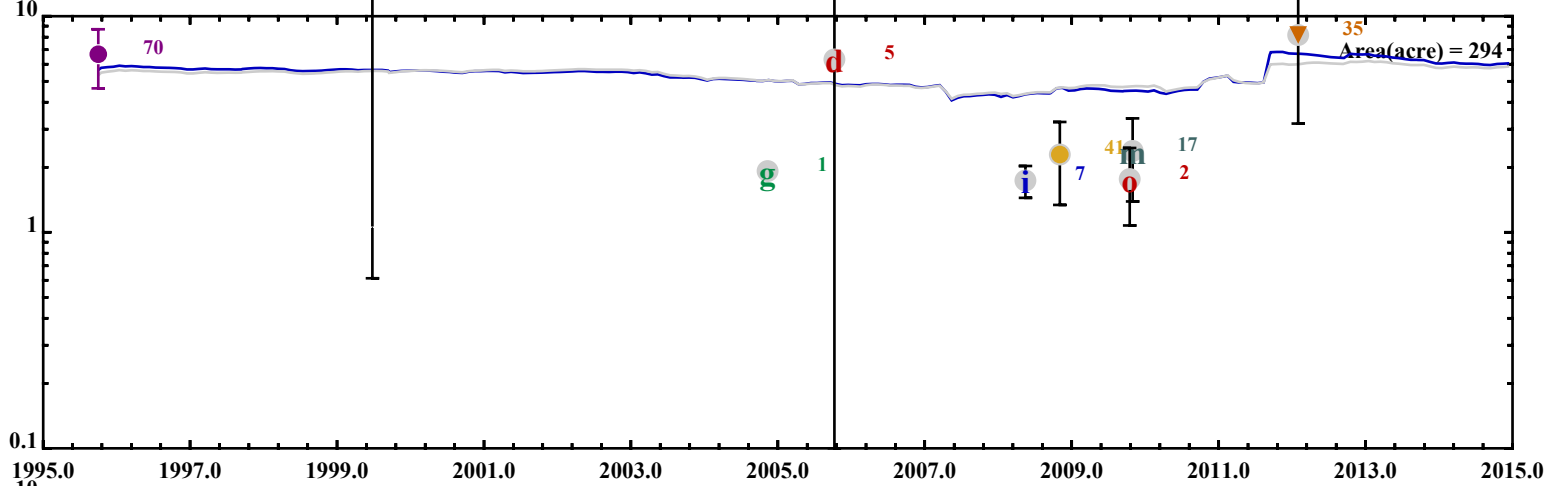
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

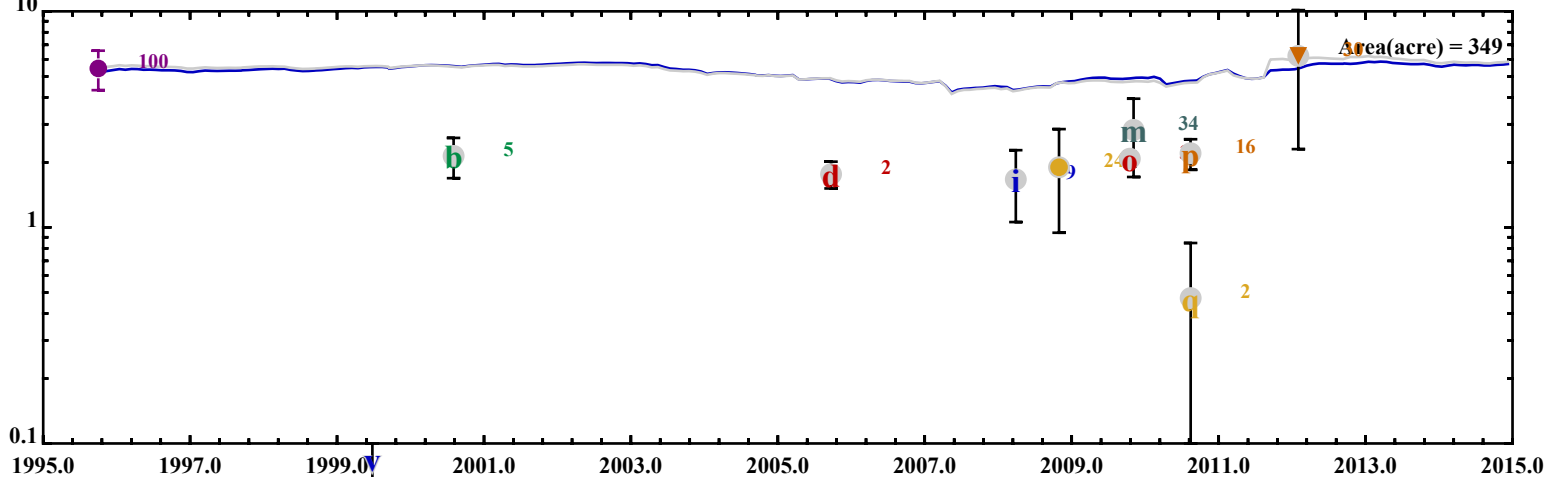
RM 0-8



RM 0-8 (Channel)



RM 0-8 (Shoal)



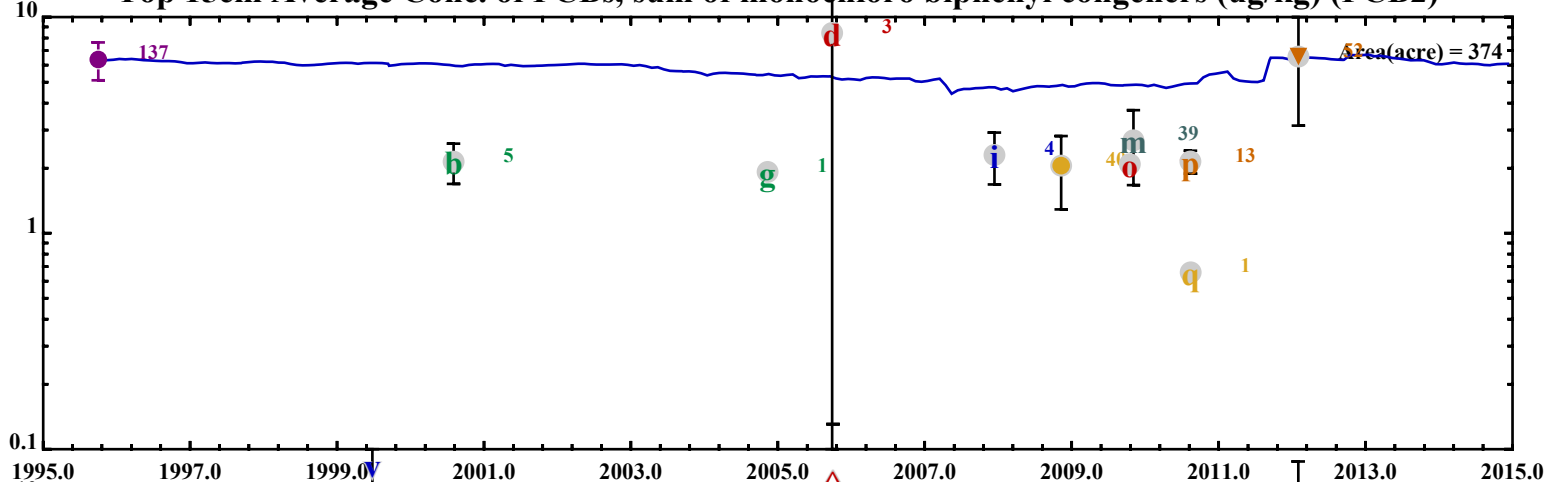
Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

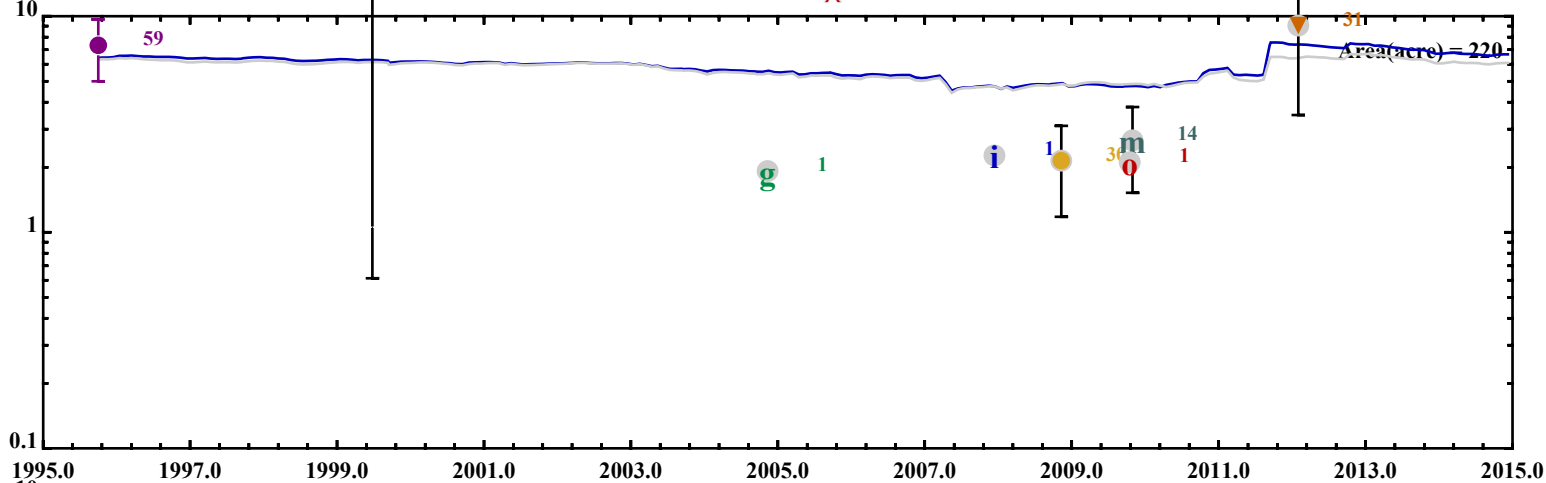
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

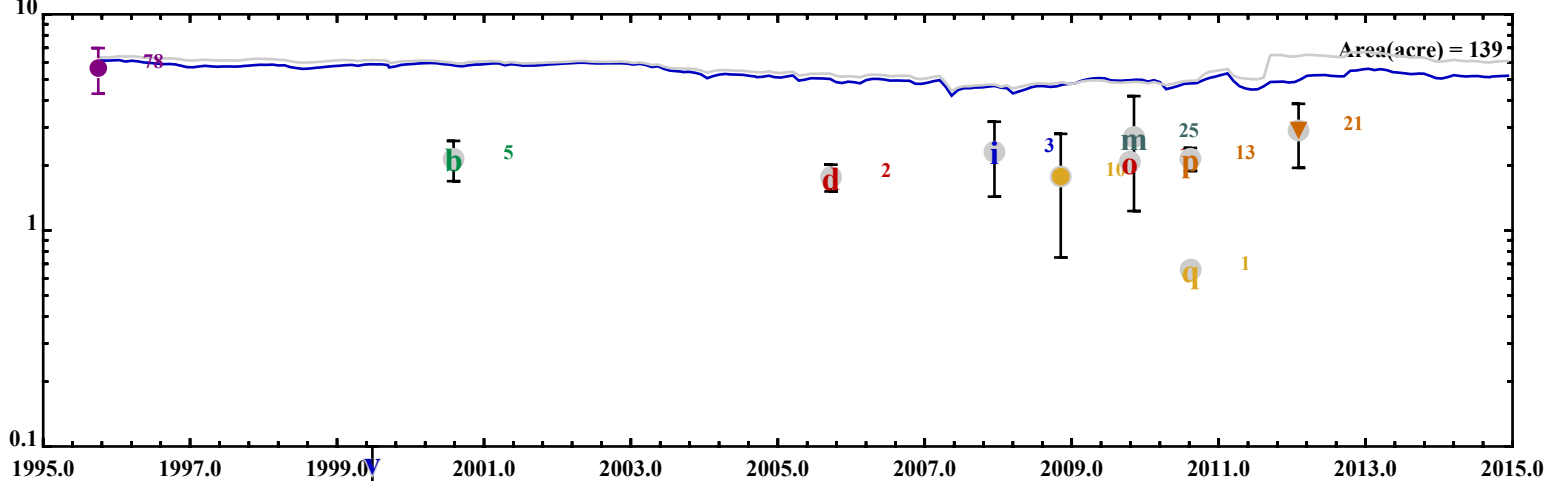
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

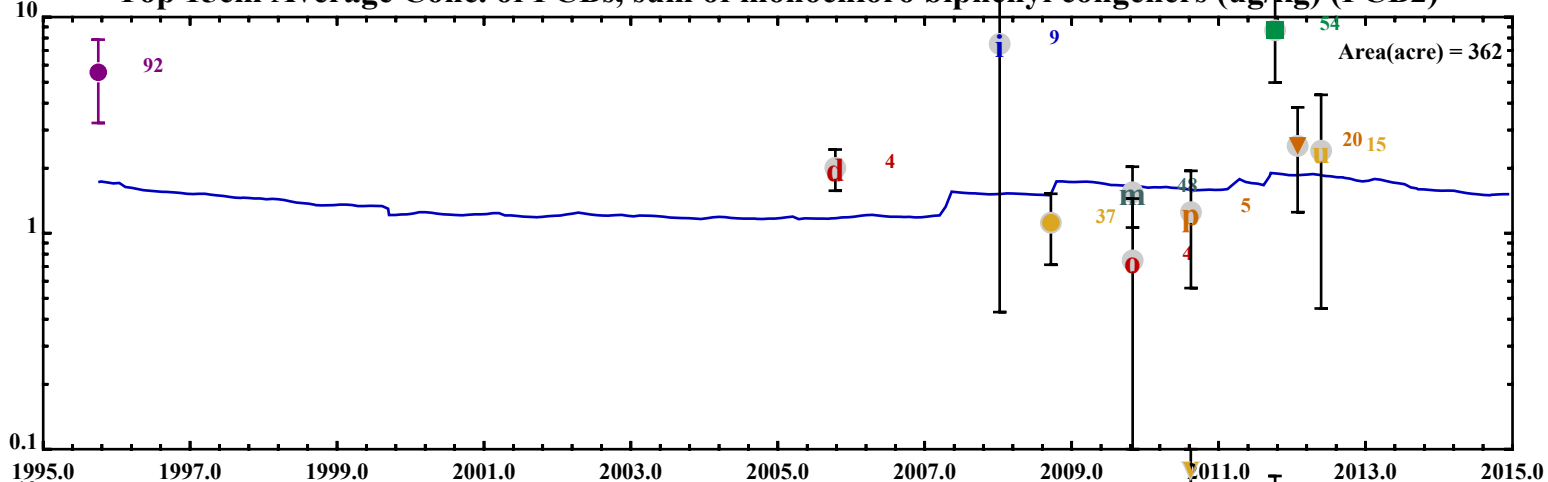


Time (Years)

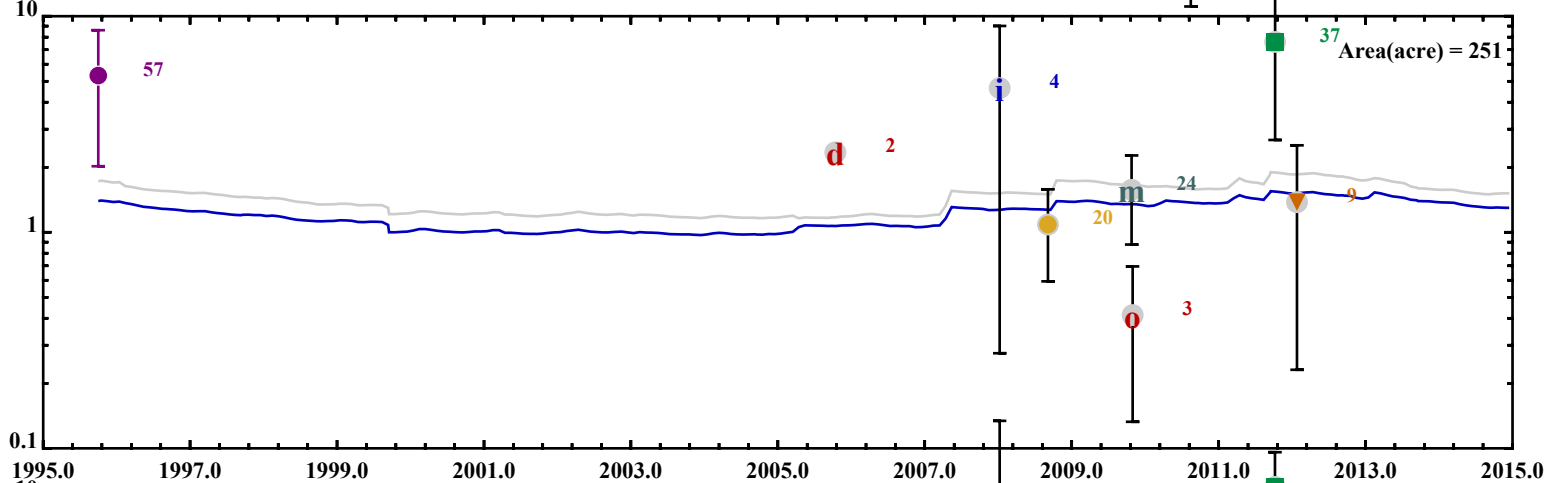
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

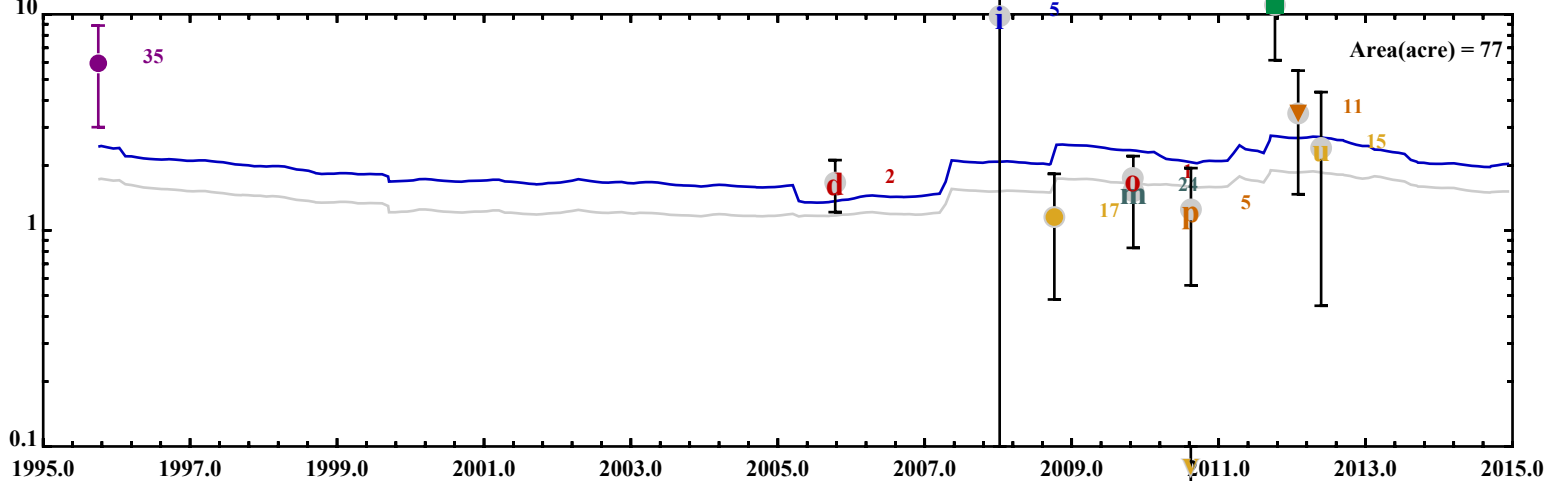
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

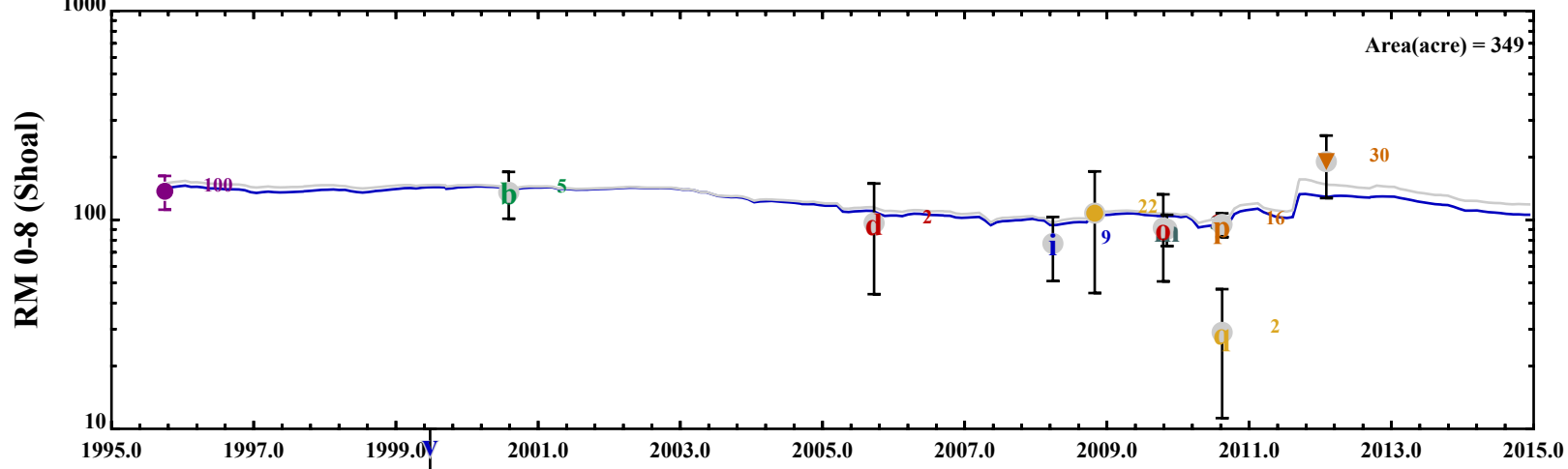
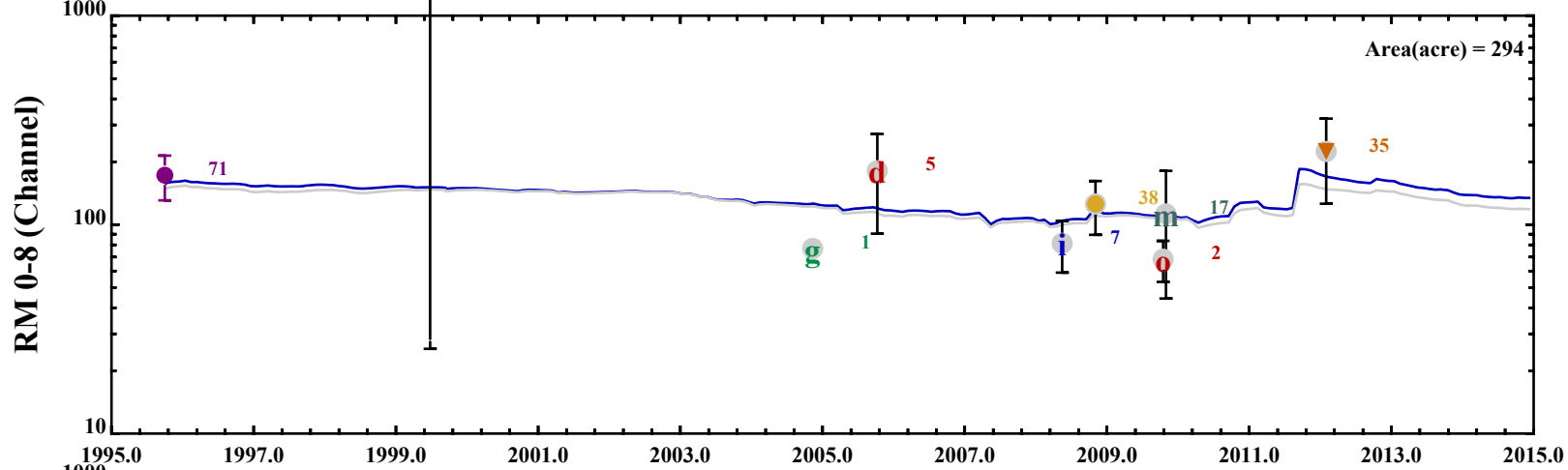
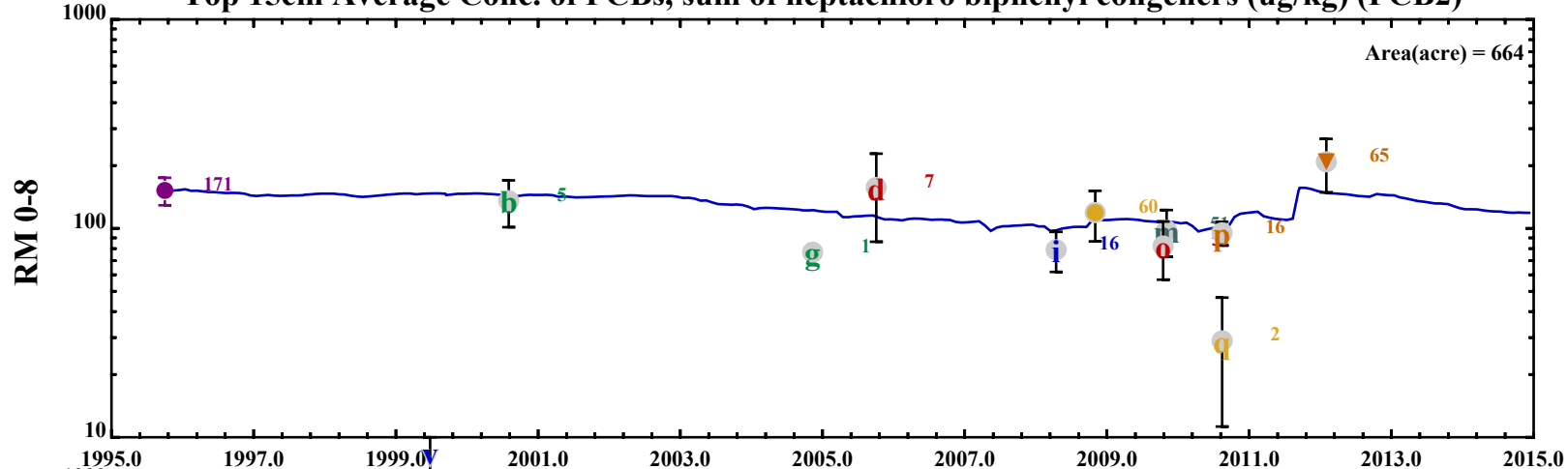


Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
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- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)

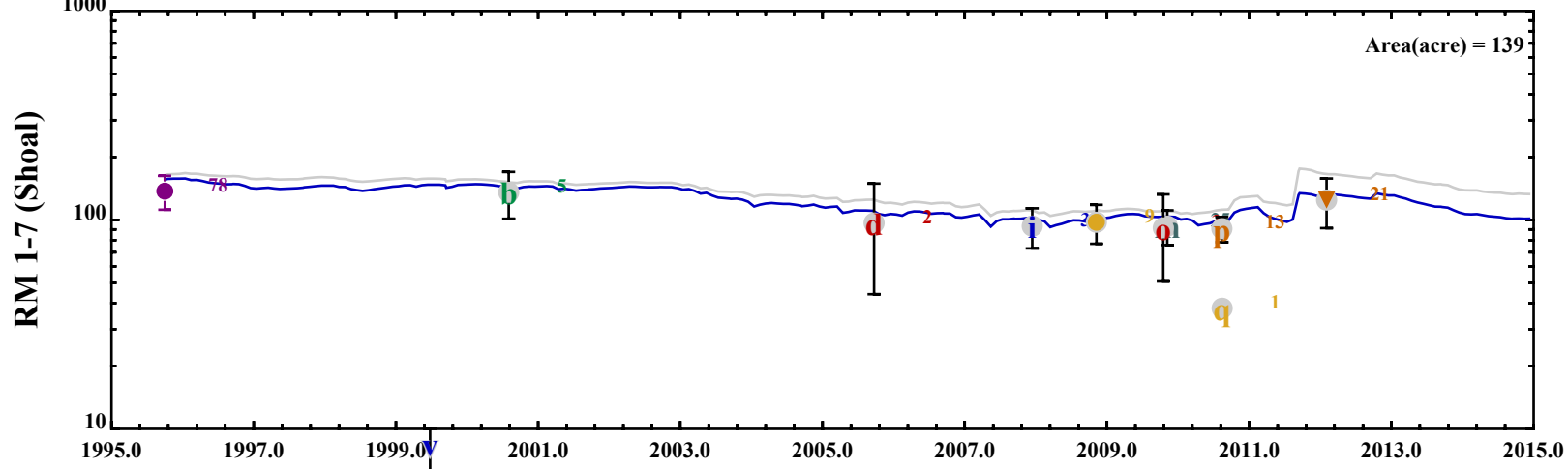
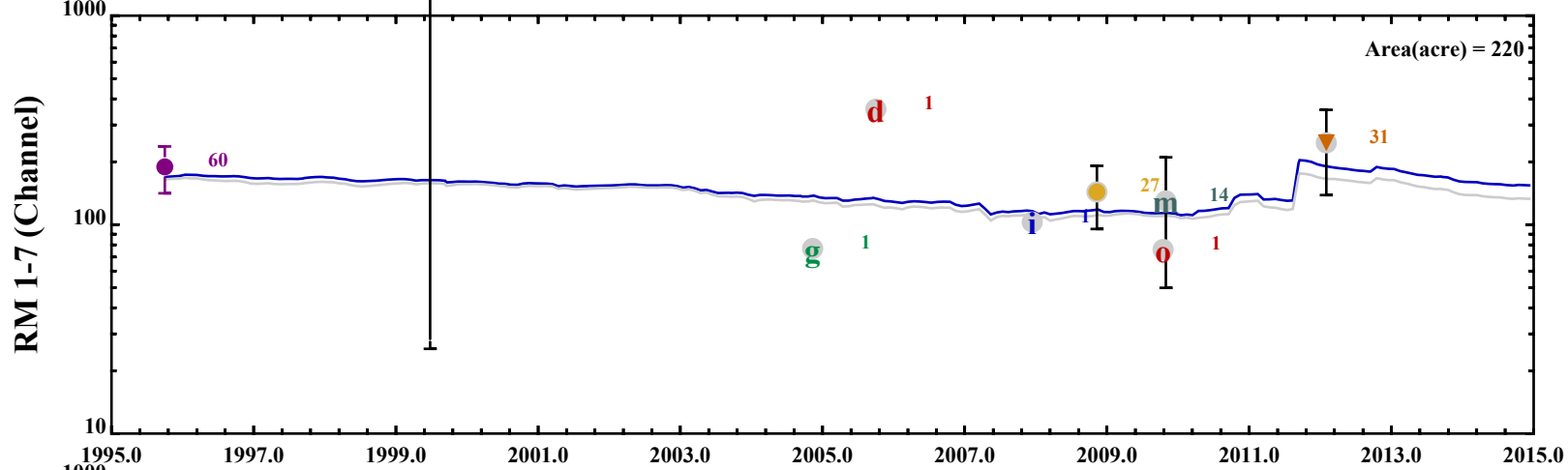
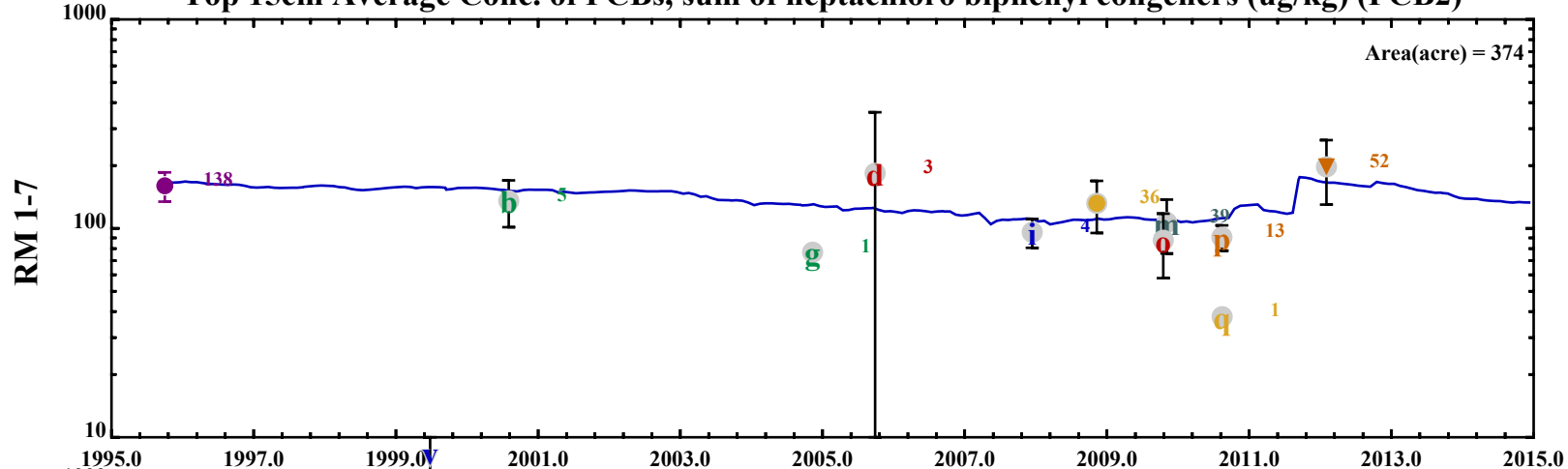


- Data used for ICs
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- C 1991 Core Sediment Investigation
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- E 1992 Core Sediment Investigation
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- G 1993 Core Sediment Investigation - 02 (July)
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- o 2009 USEPA-MPI Benthic Oversight
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

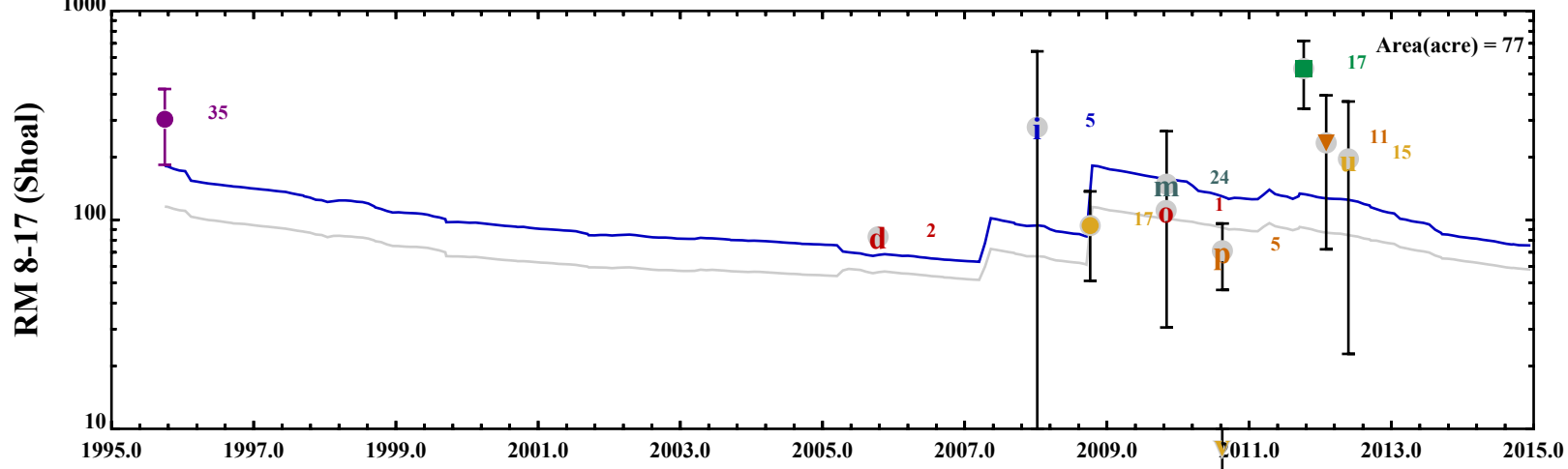
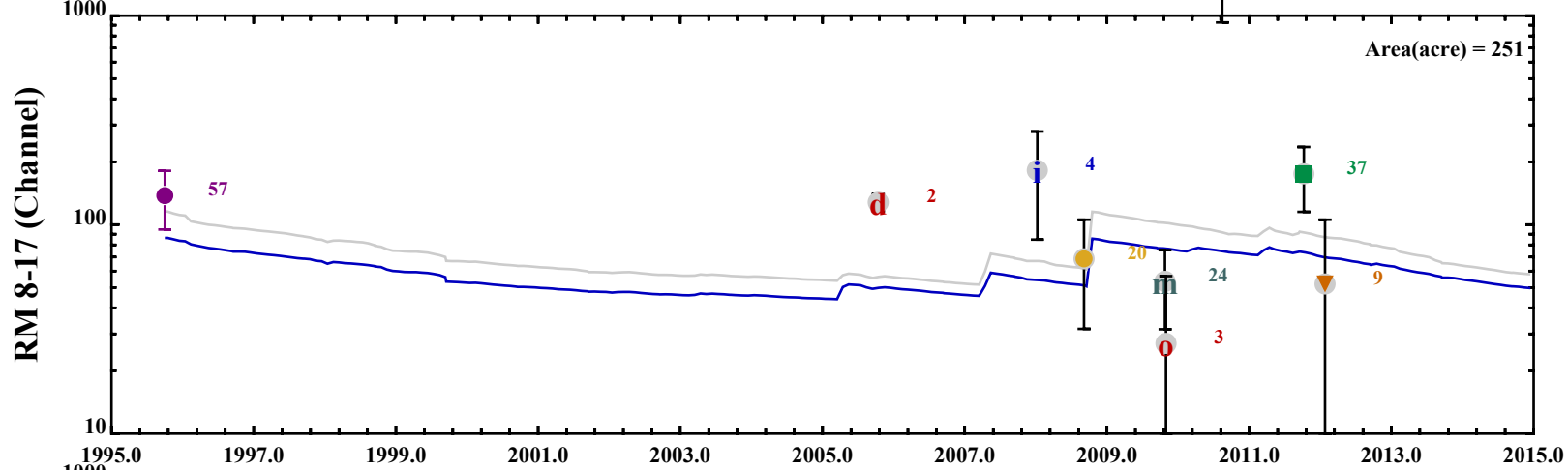
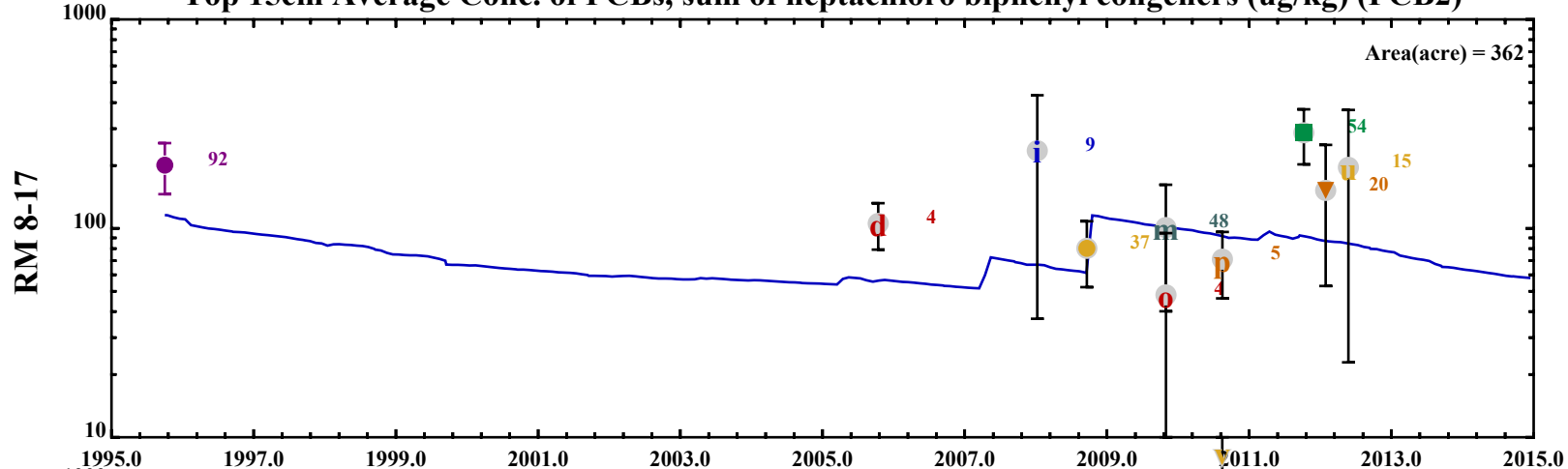
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

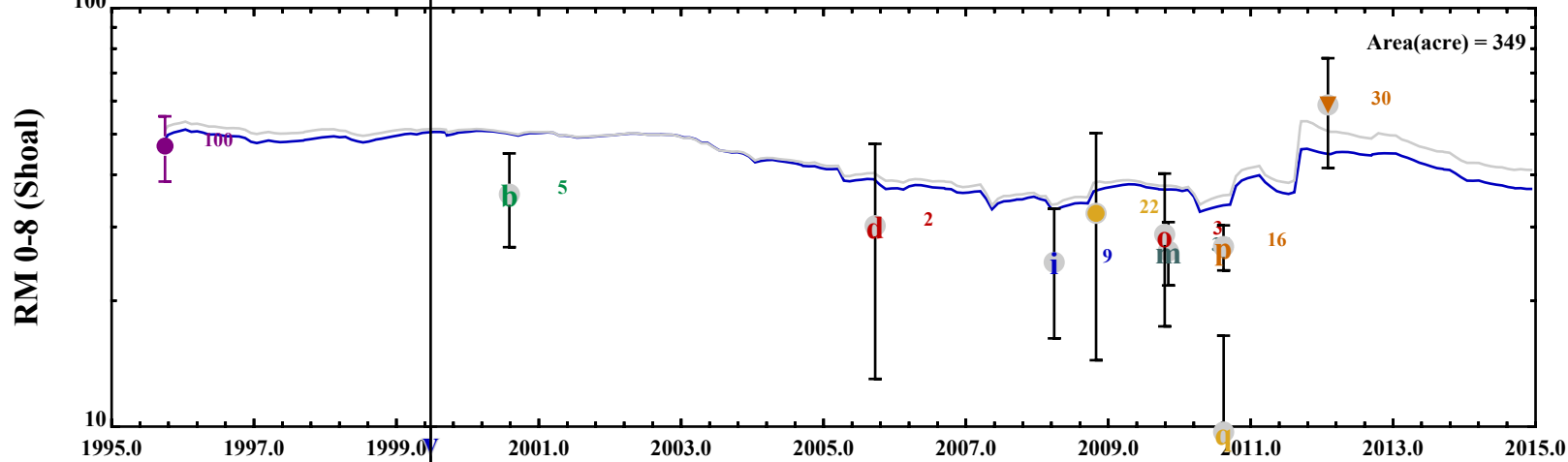
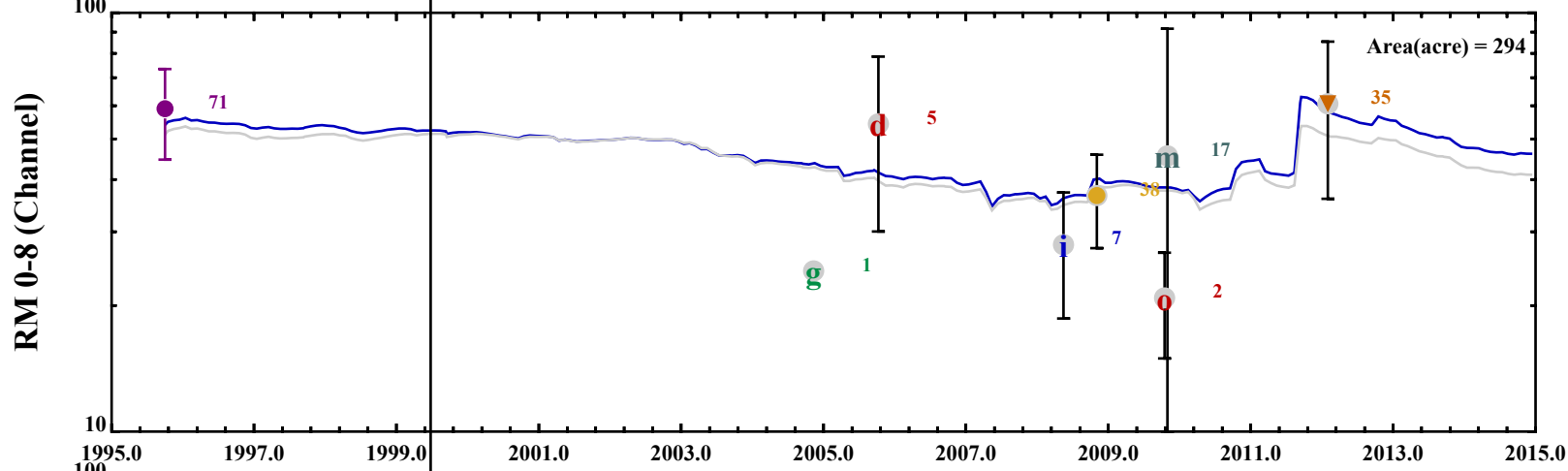
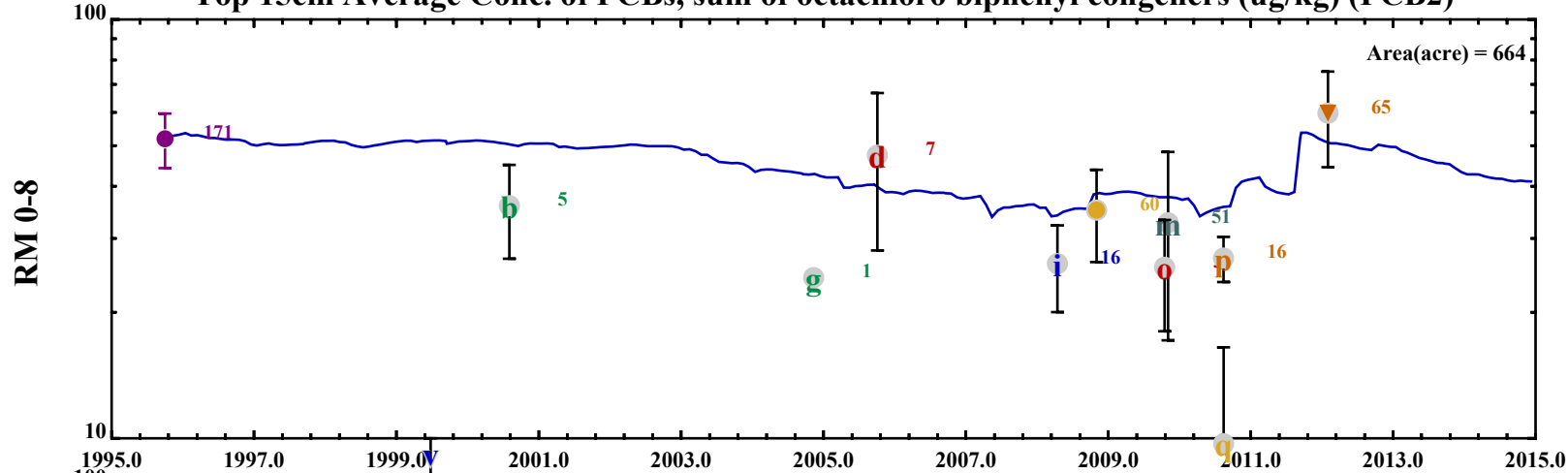
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



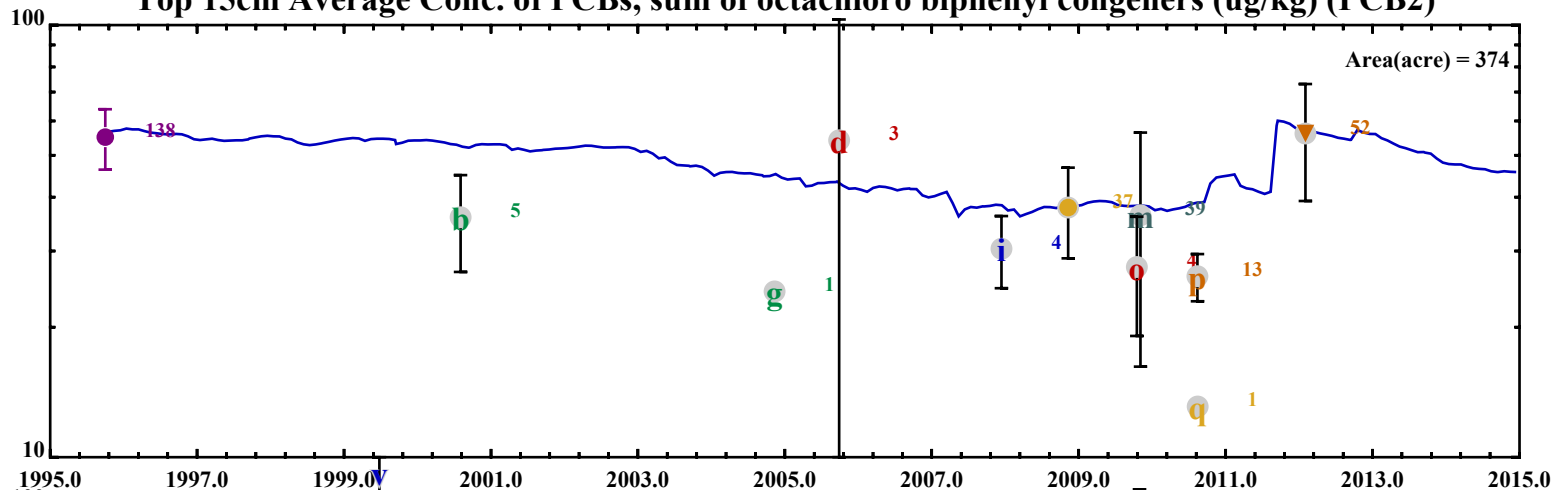
- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
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- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 2008 CPG Low Resolution Sediment Coring
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

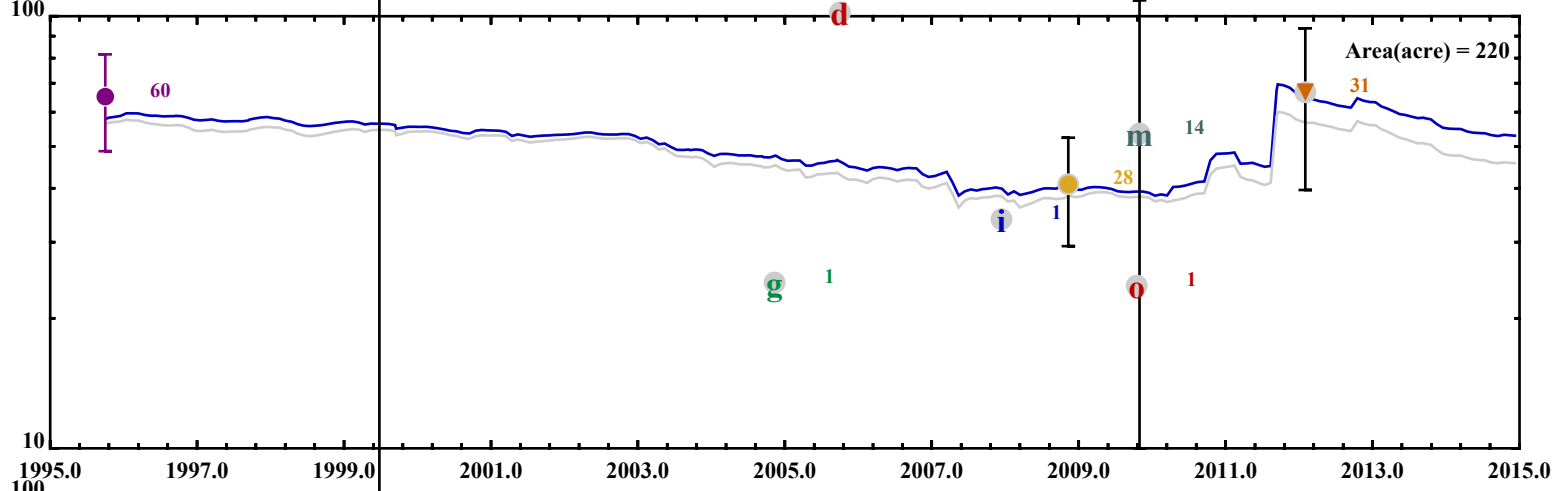


# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

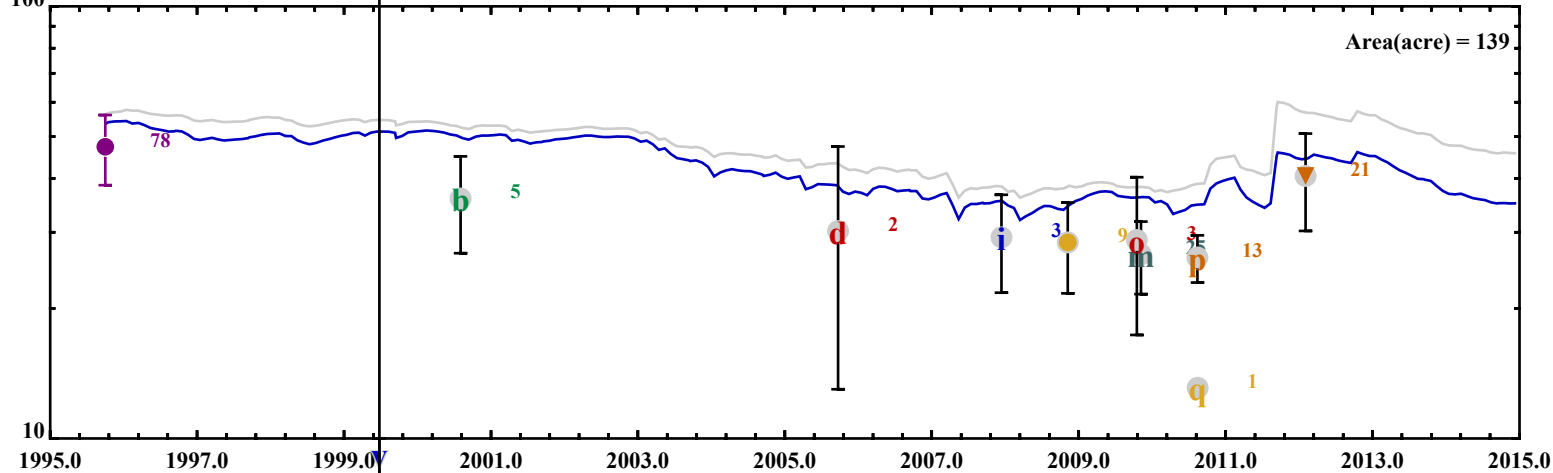
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)



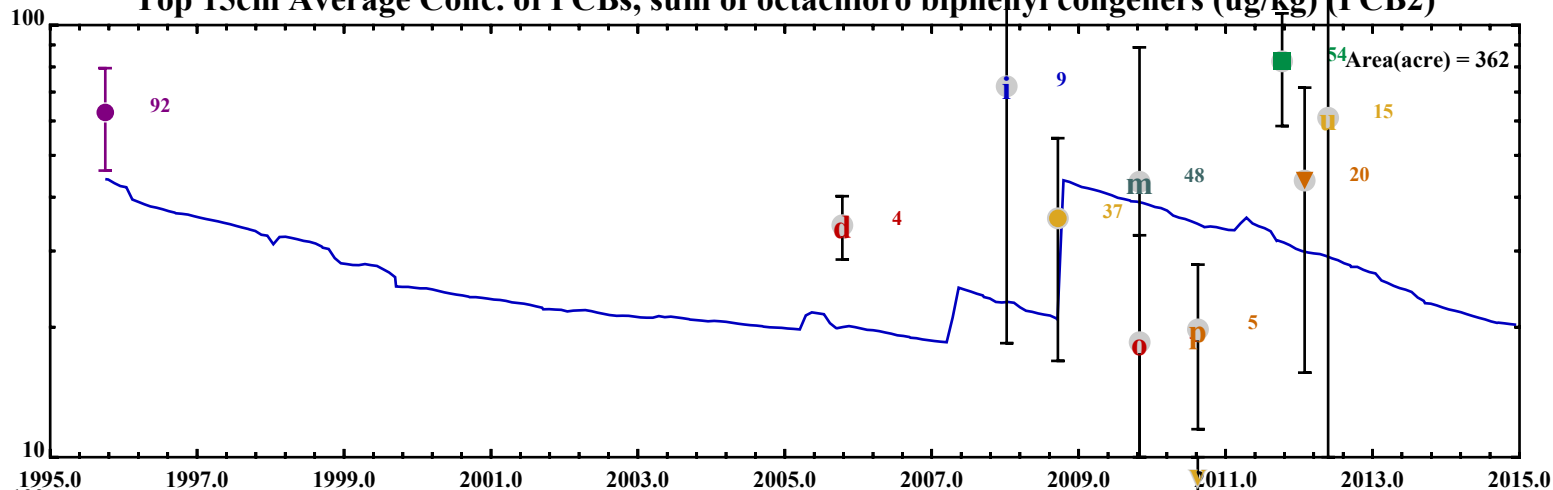
Time (Years)

- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
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- ▼ 2012 CPG Low Res Coring Supplemental
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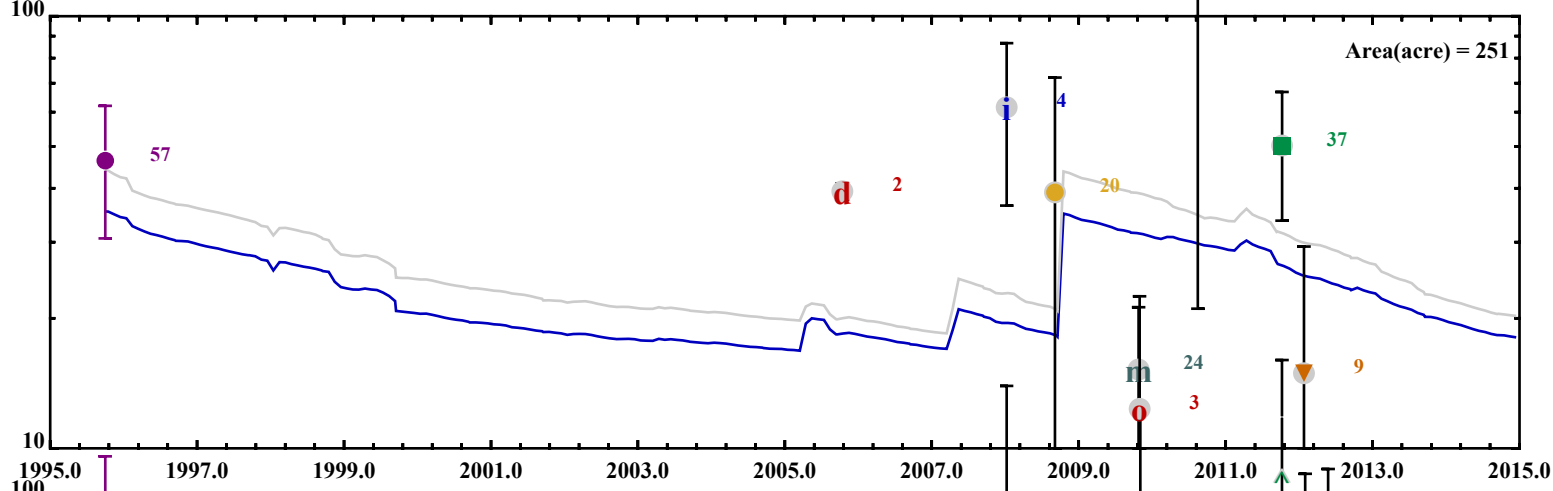
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

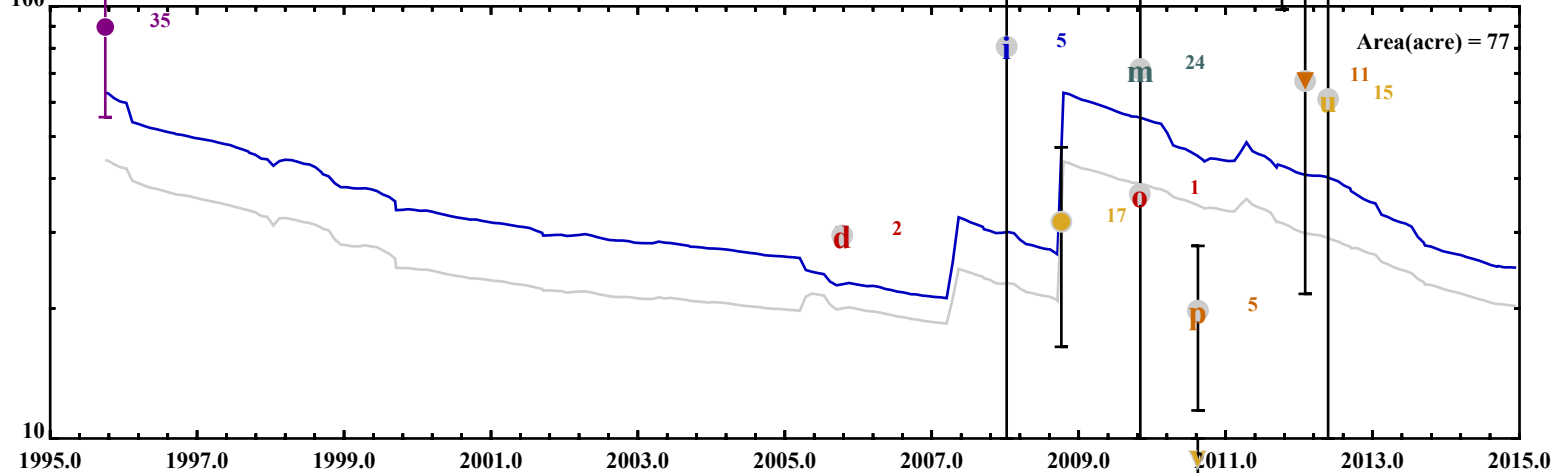
RM 8-17



RM 8-17 (Channel)



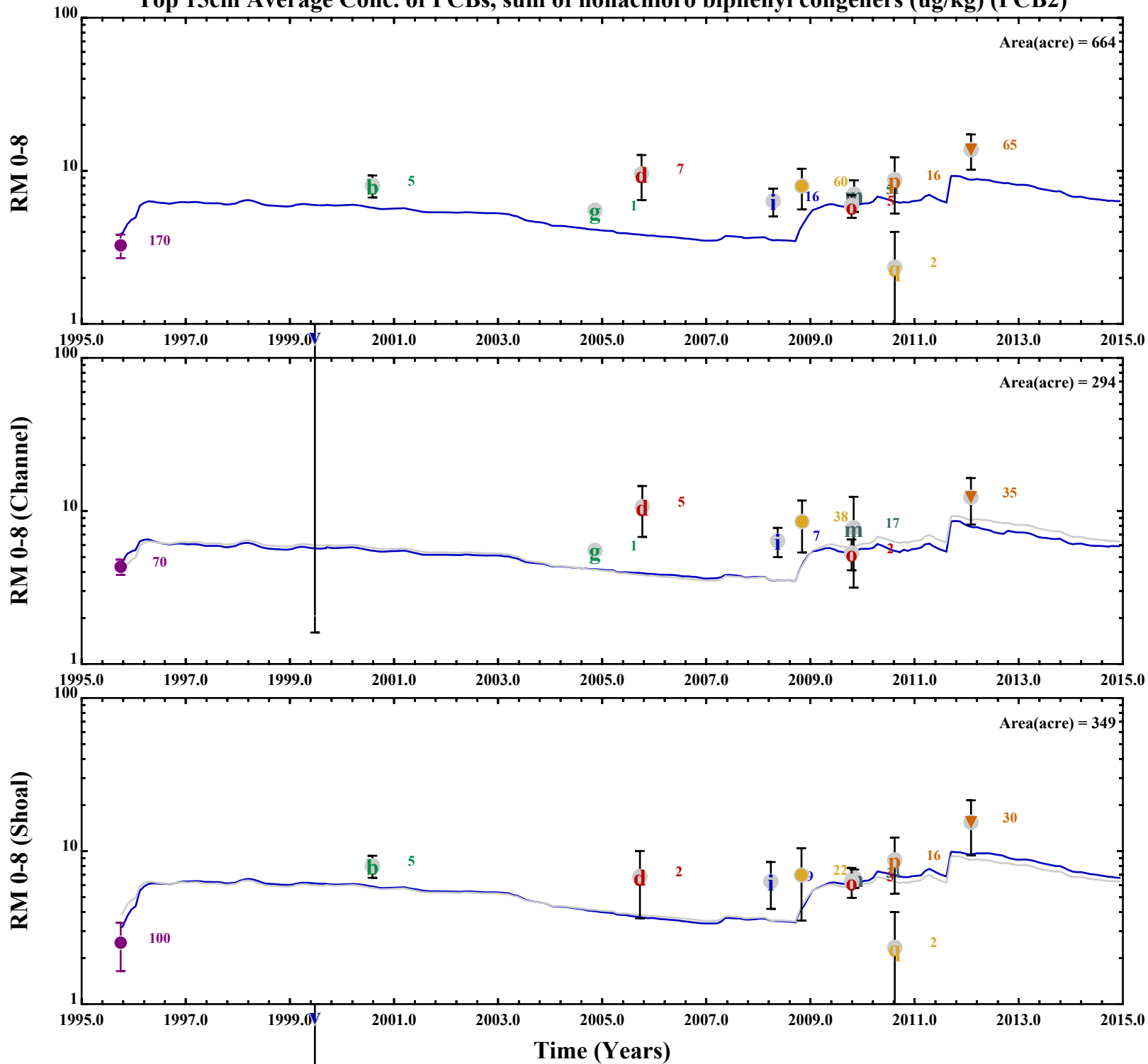
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

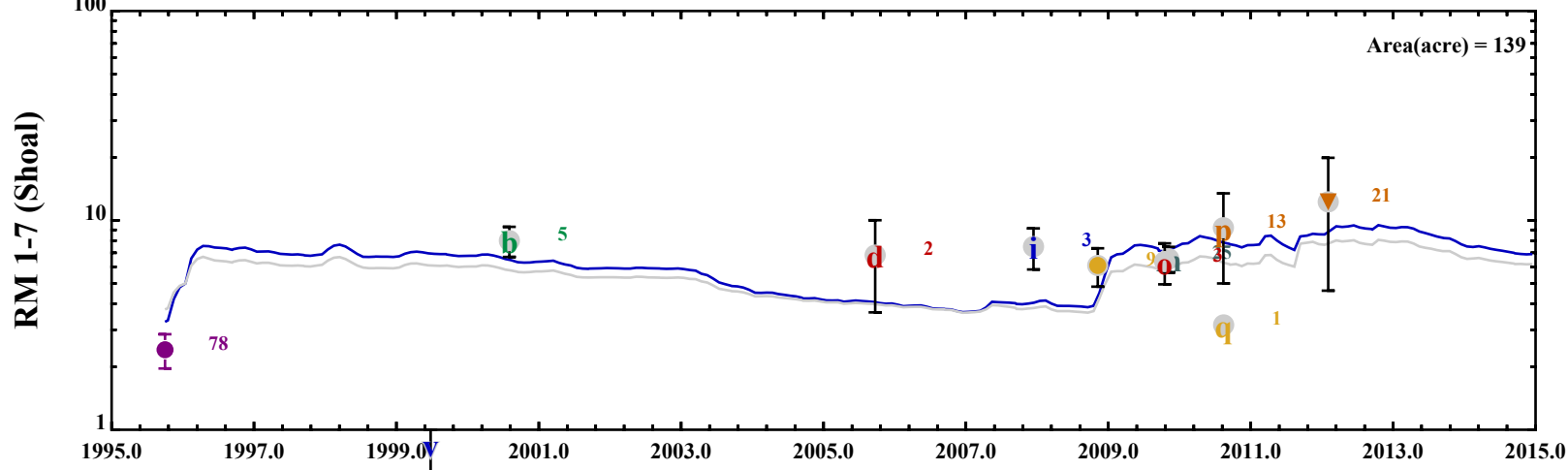
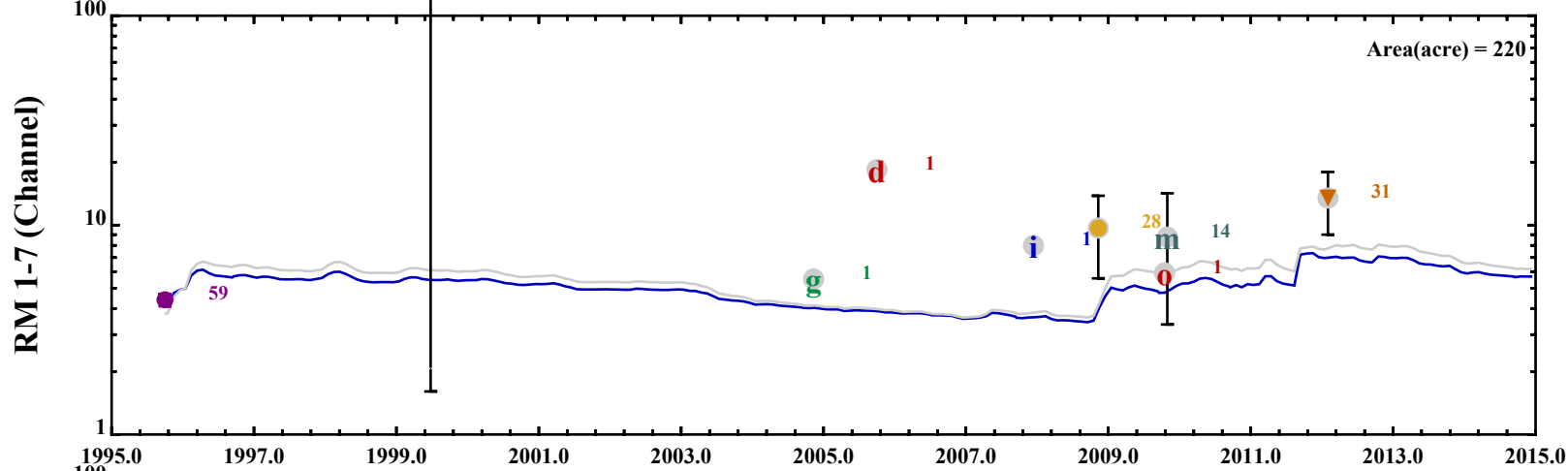
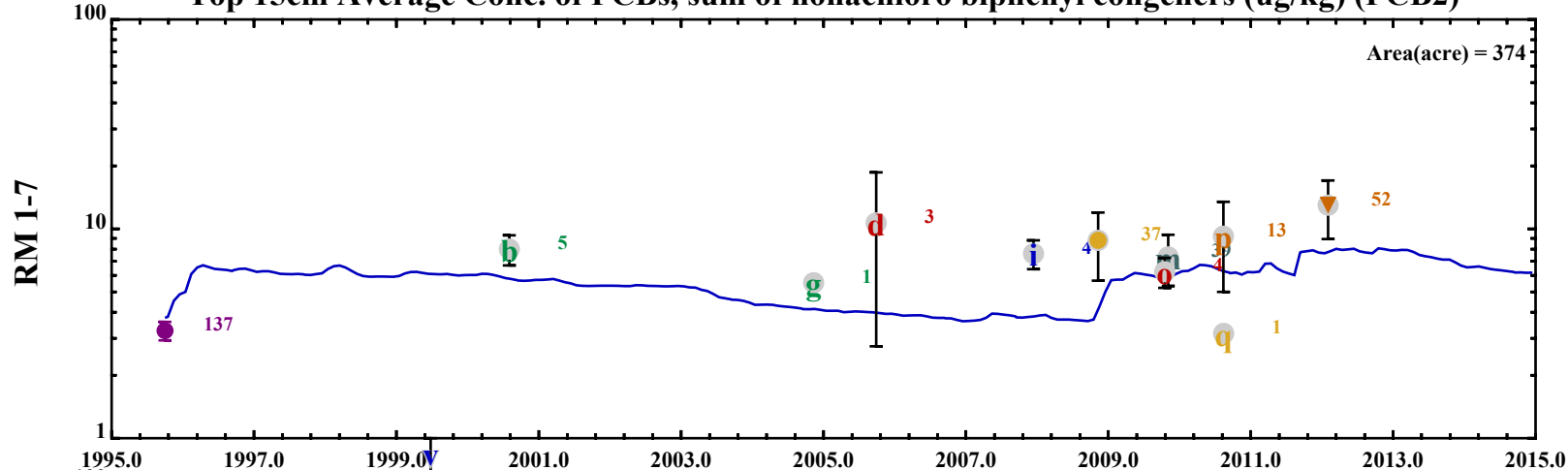
# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

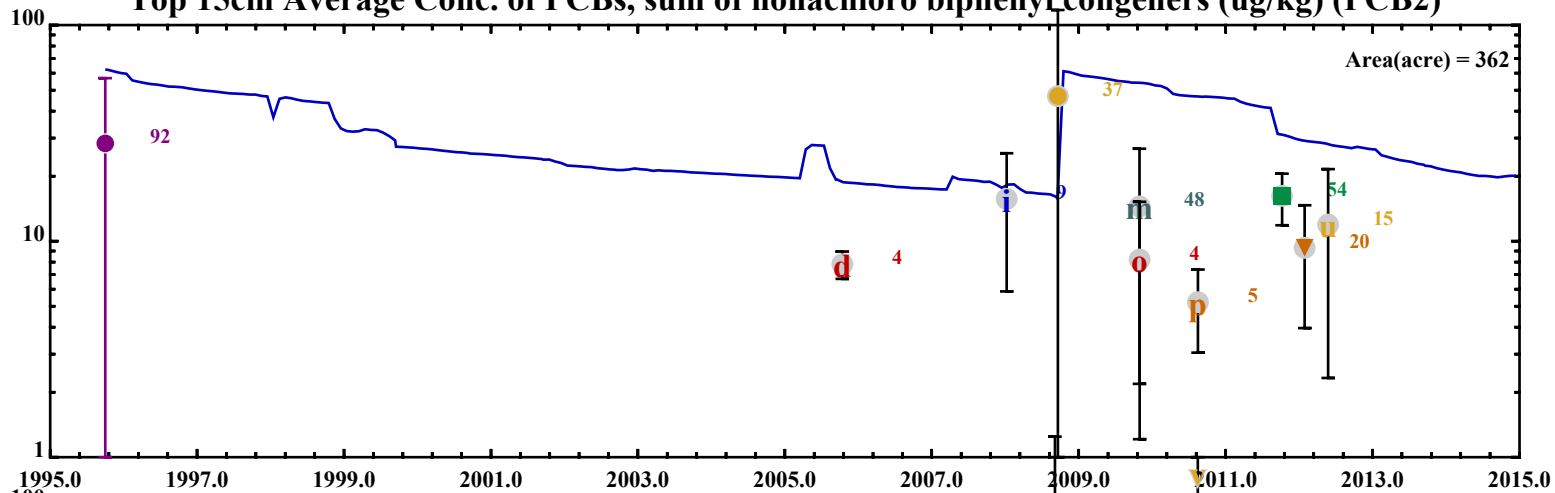
— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

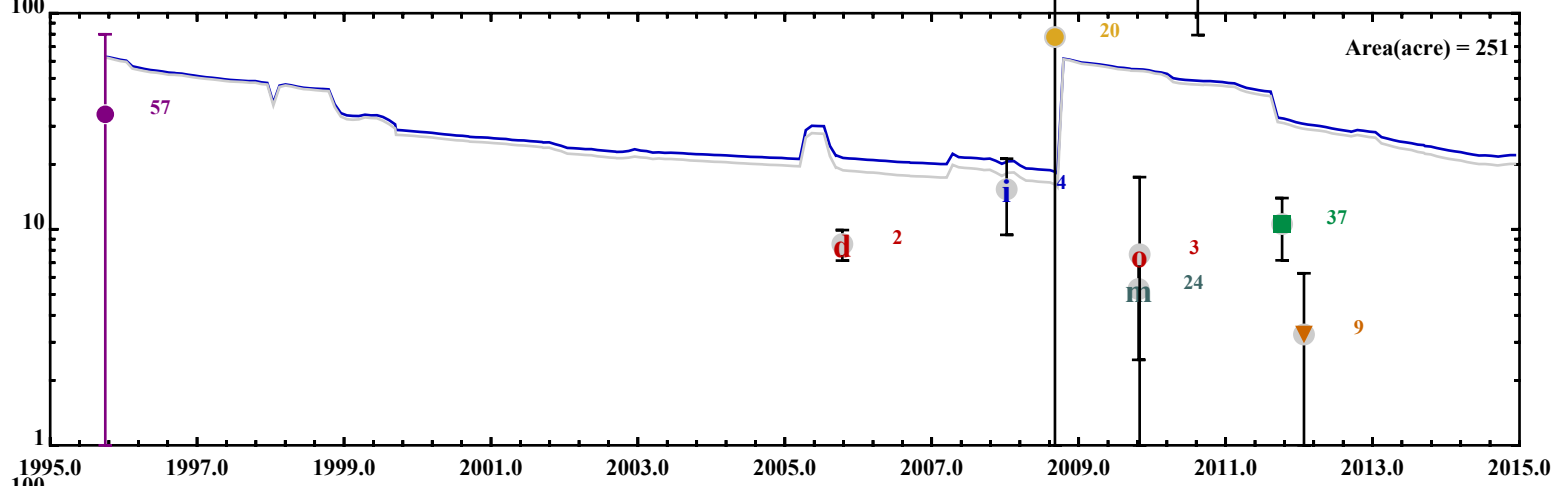
Time (Years)

# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)

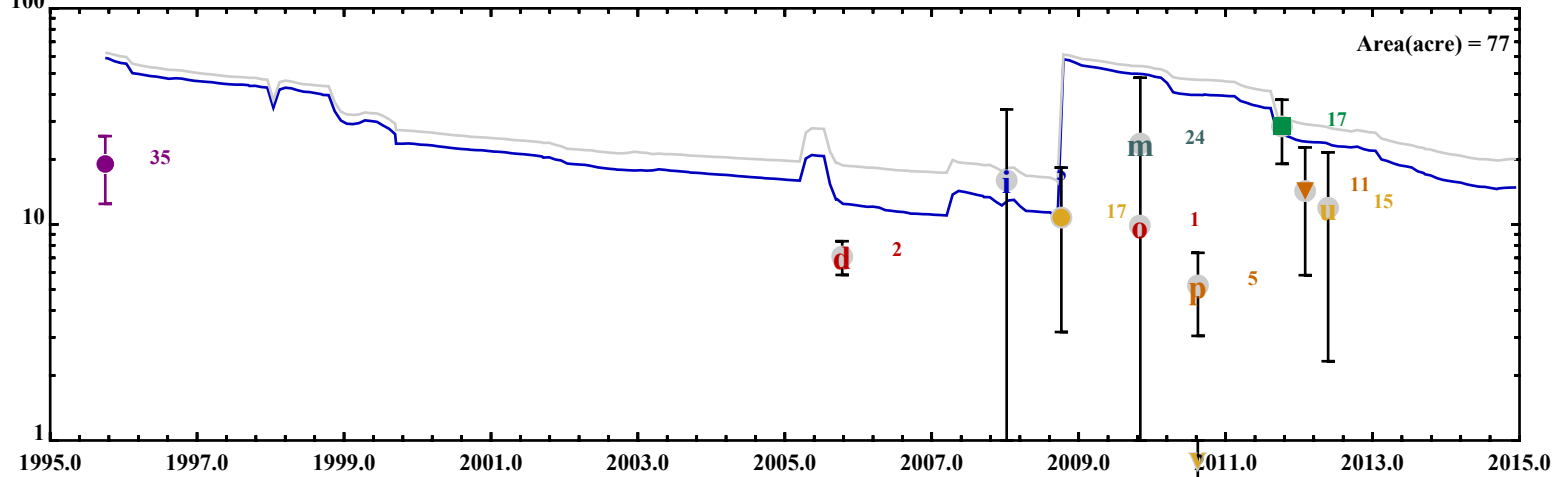
RM 8-17



RM 8-17 (Channel)



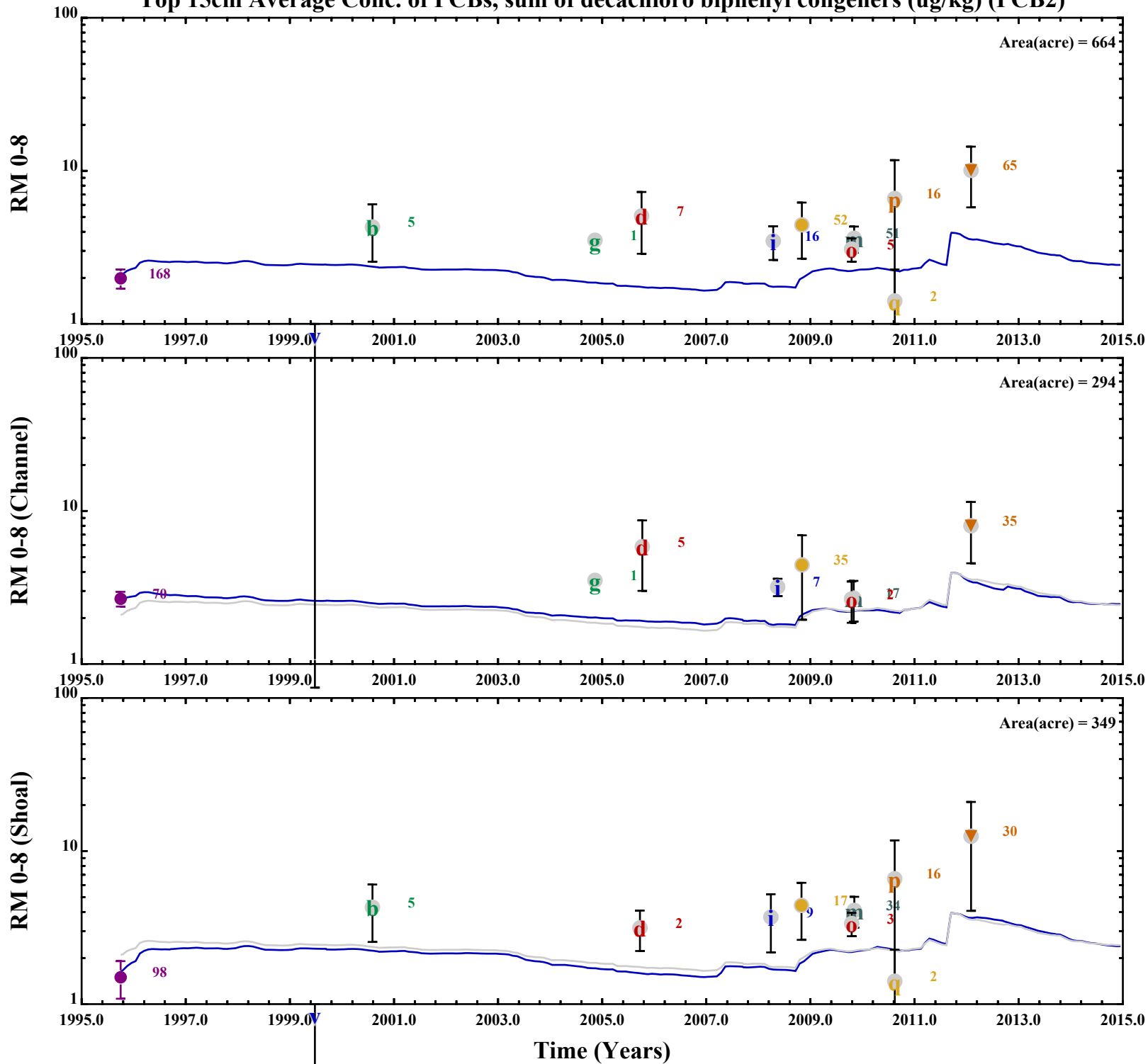
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

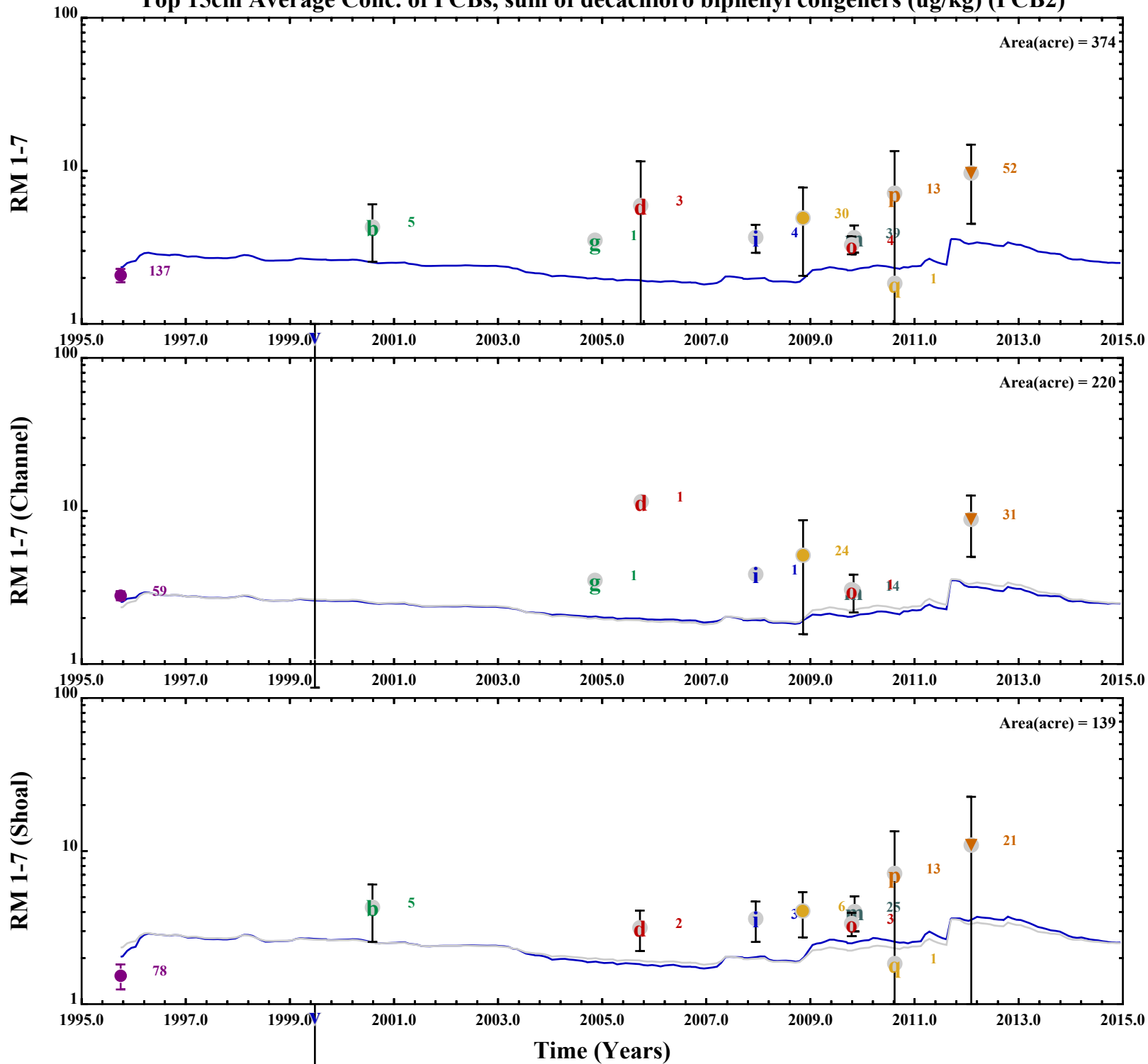


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

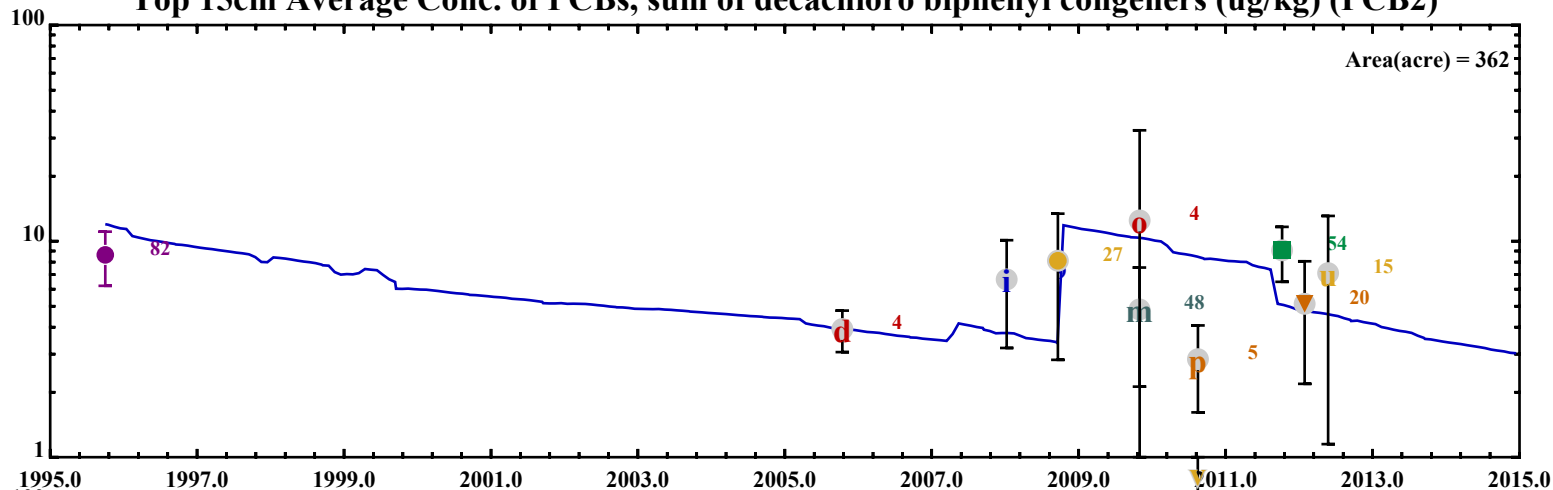
— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

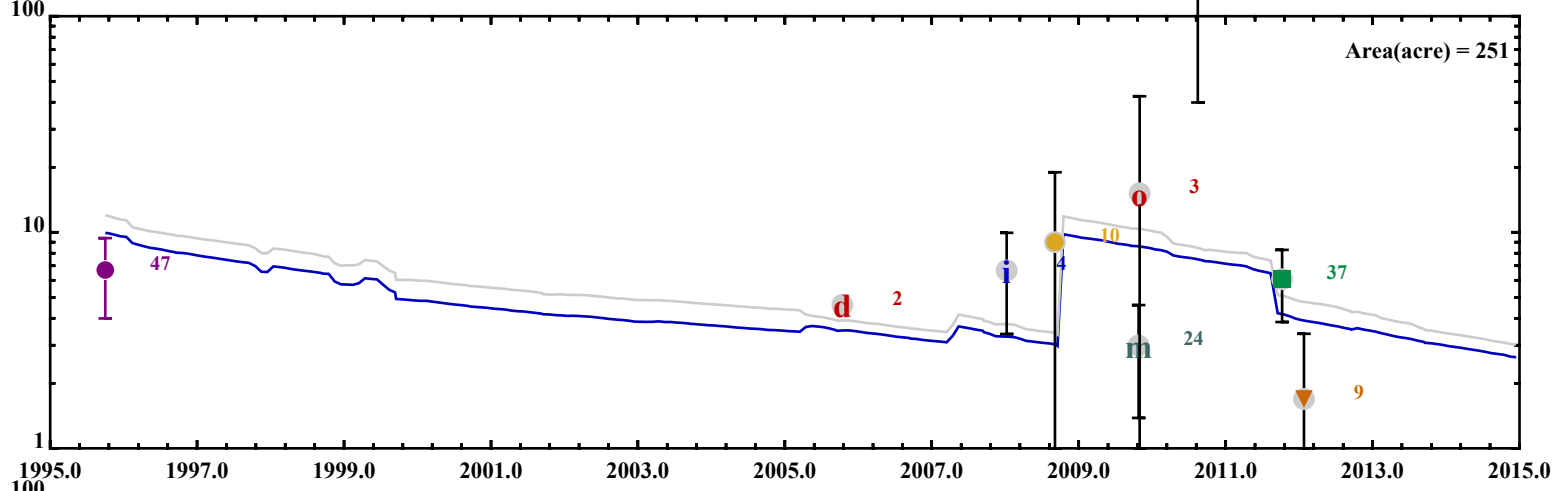


# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

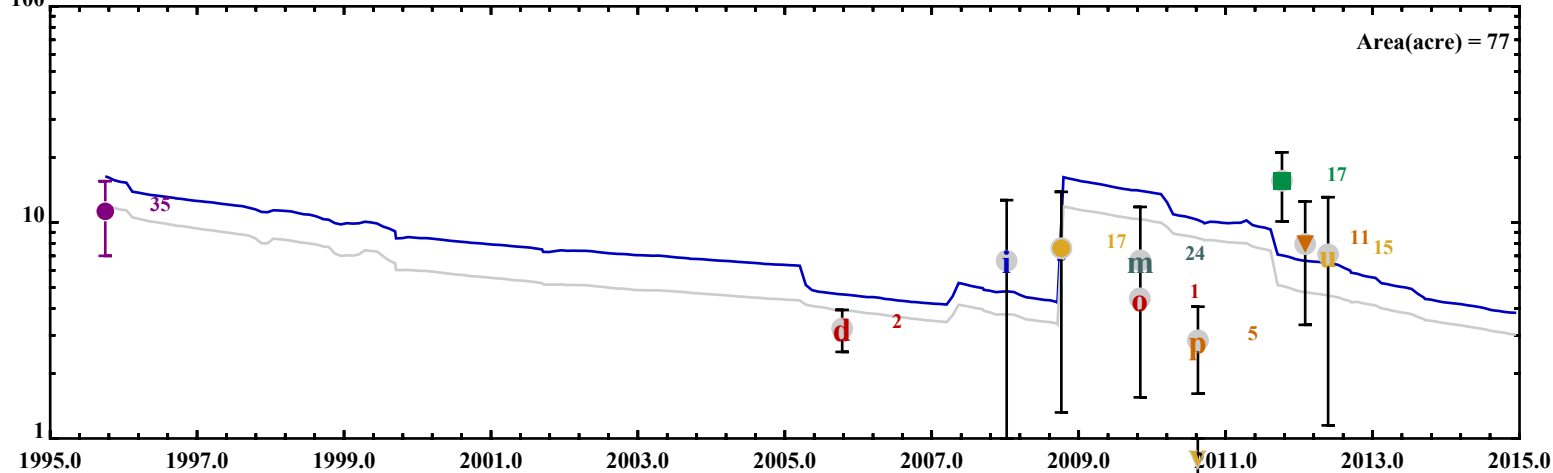
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)



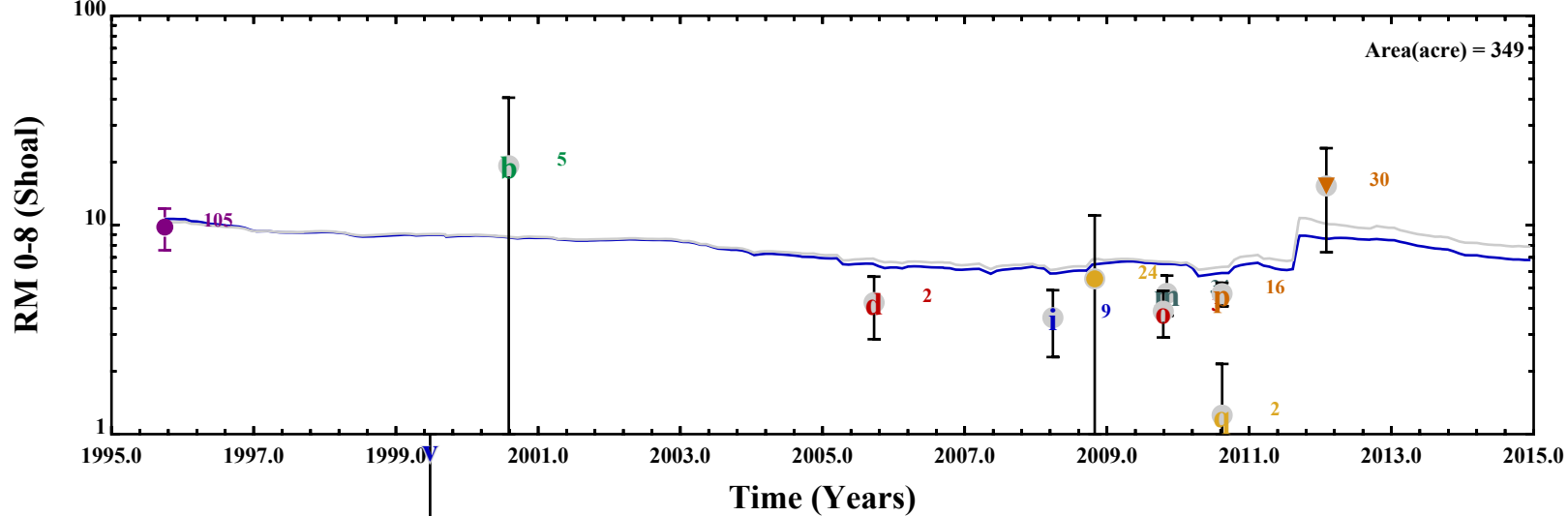
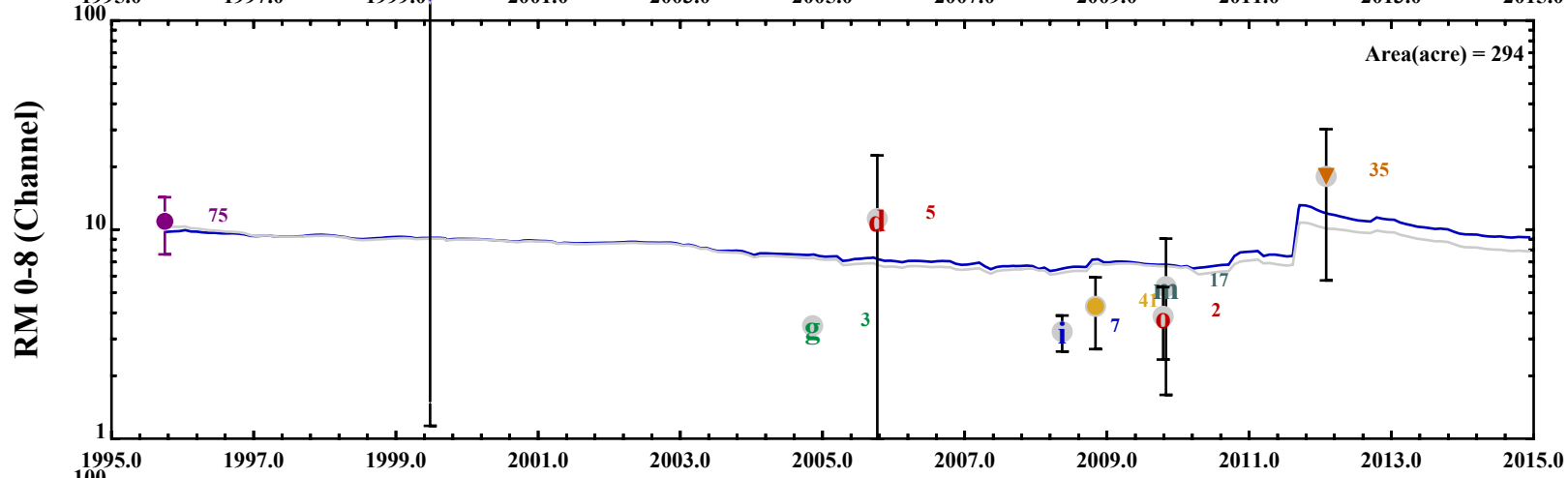
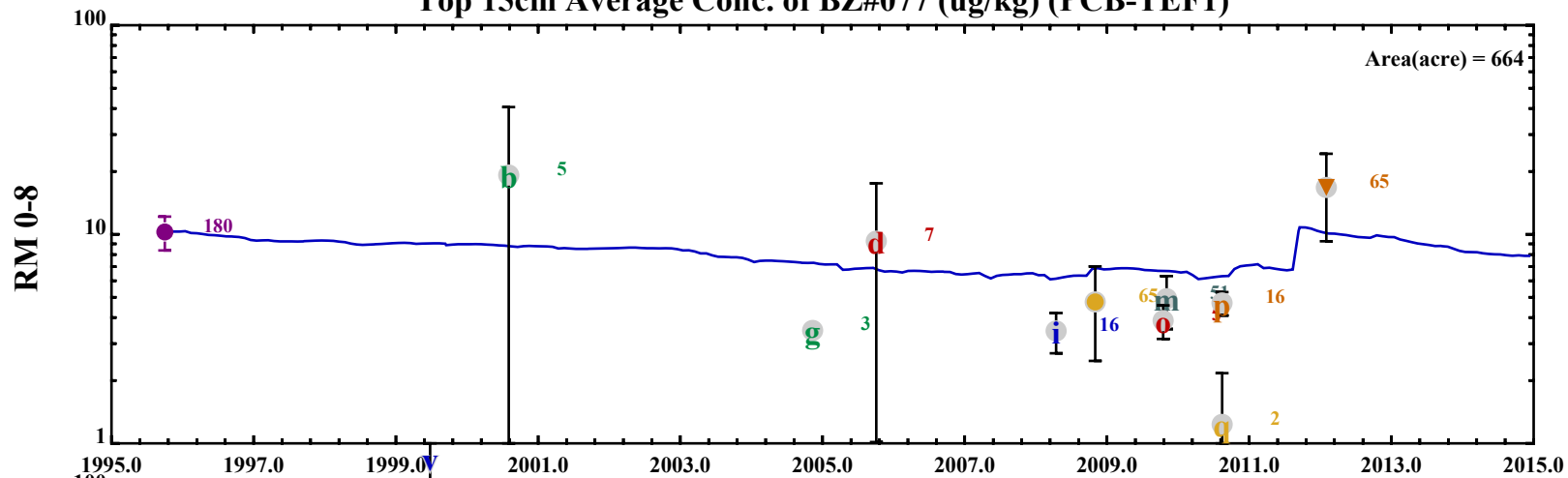
- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

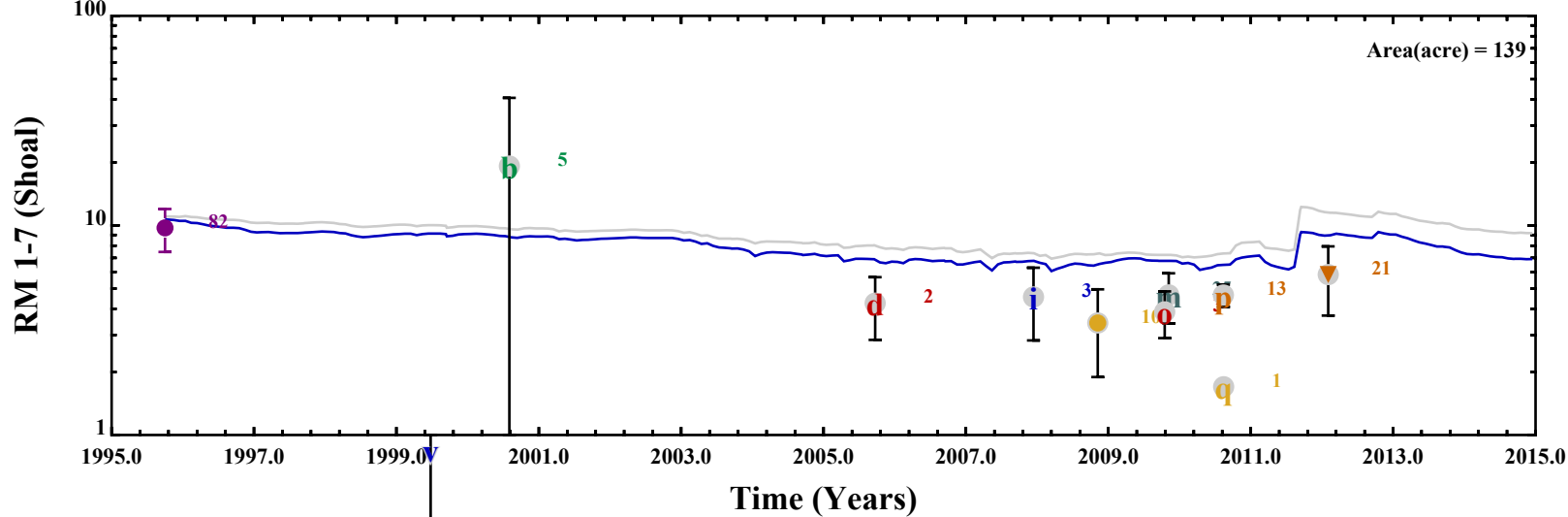
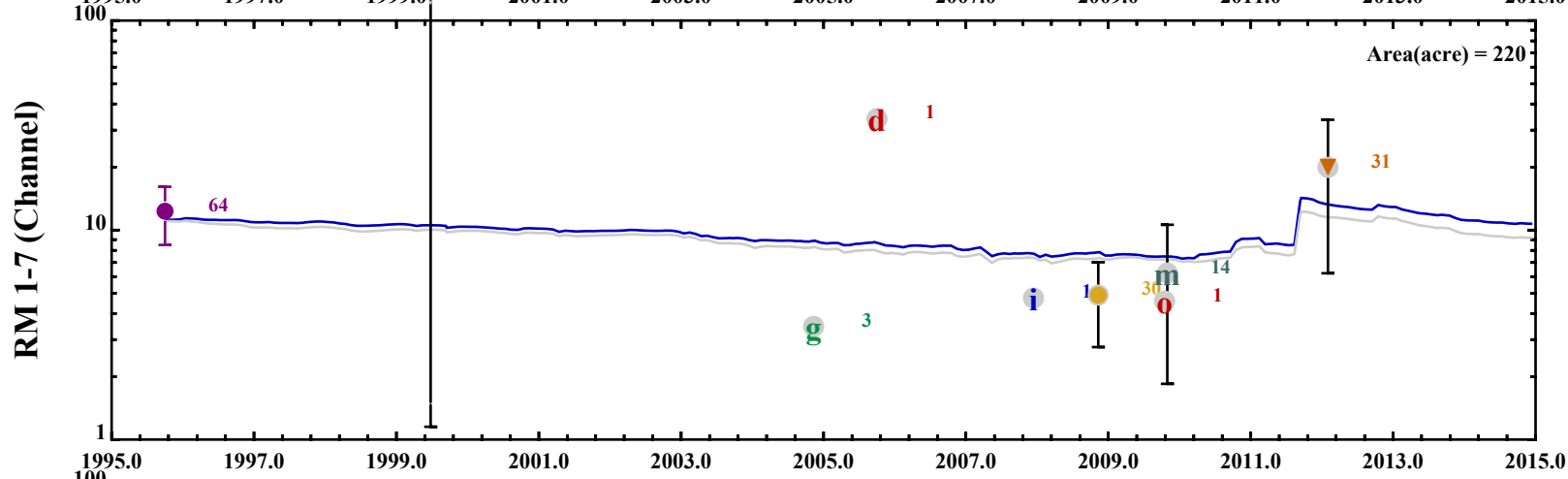
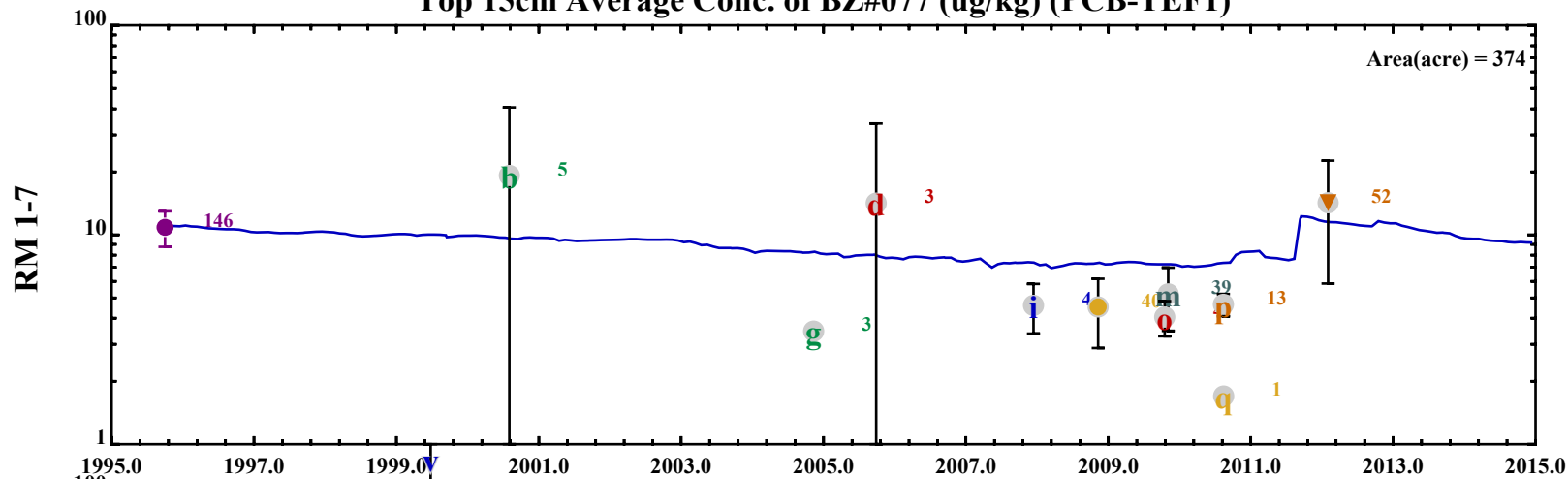


# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



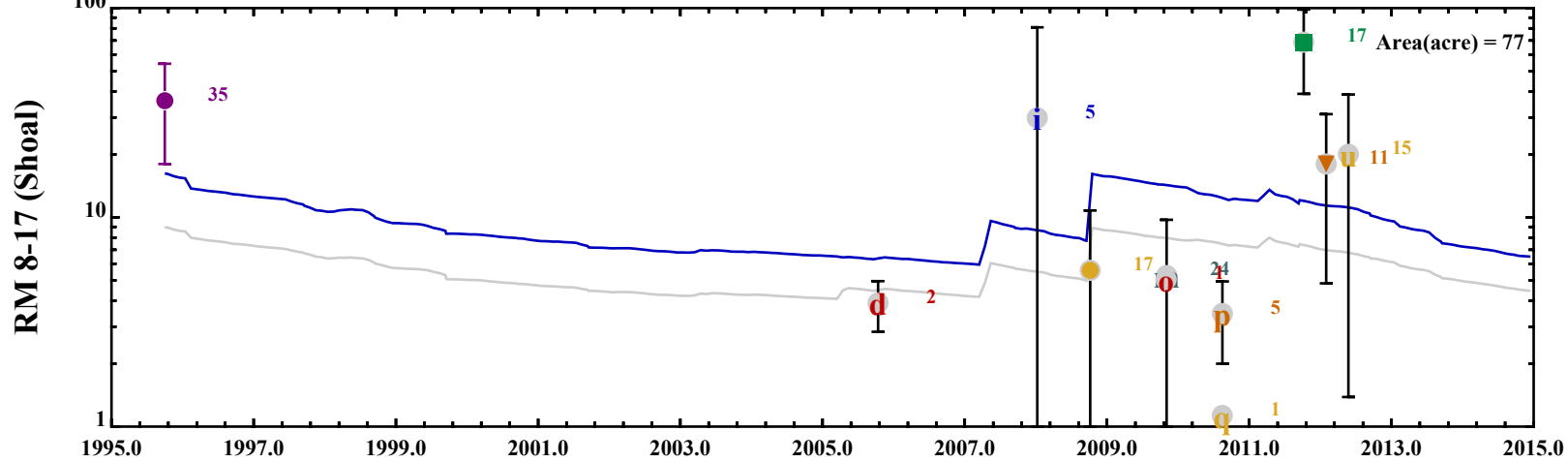
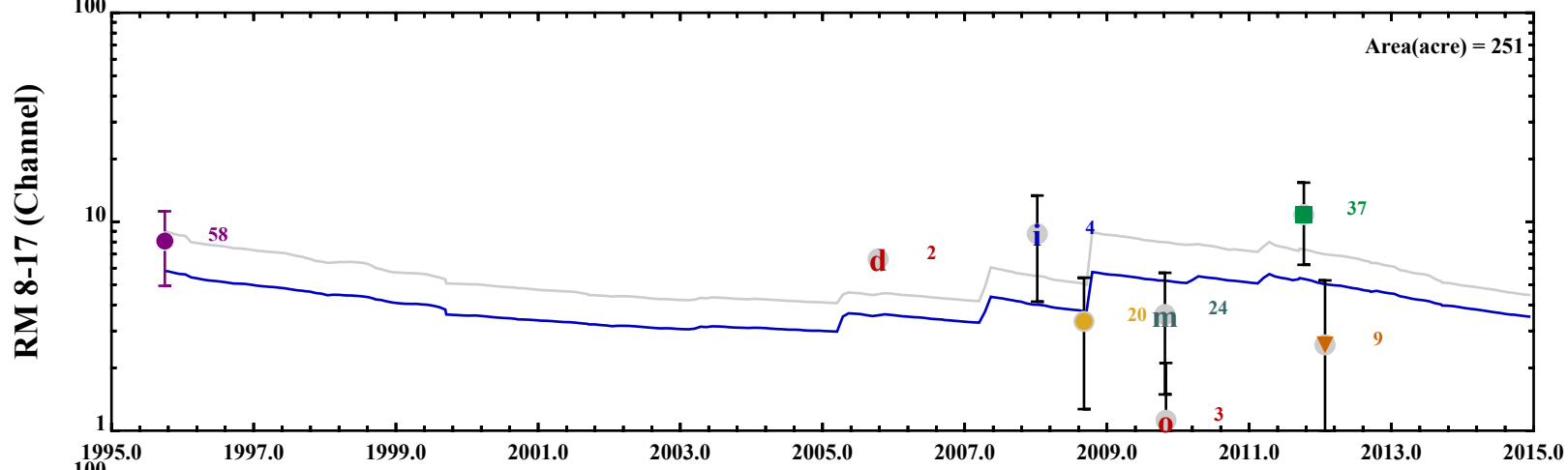
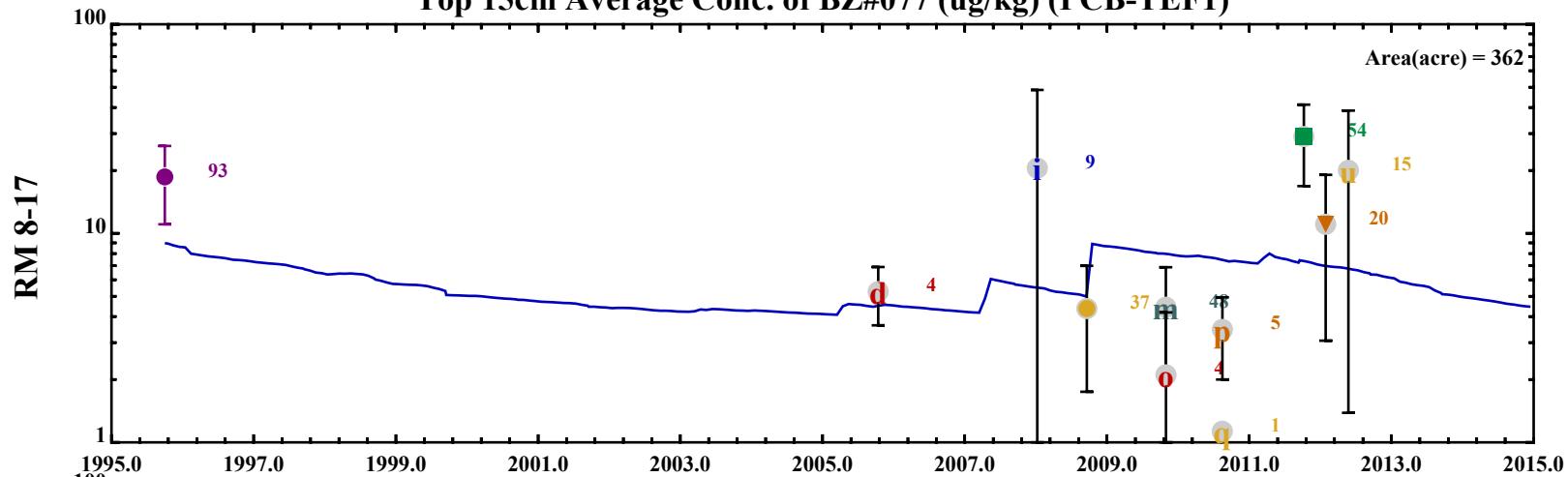
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - ■ 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)

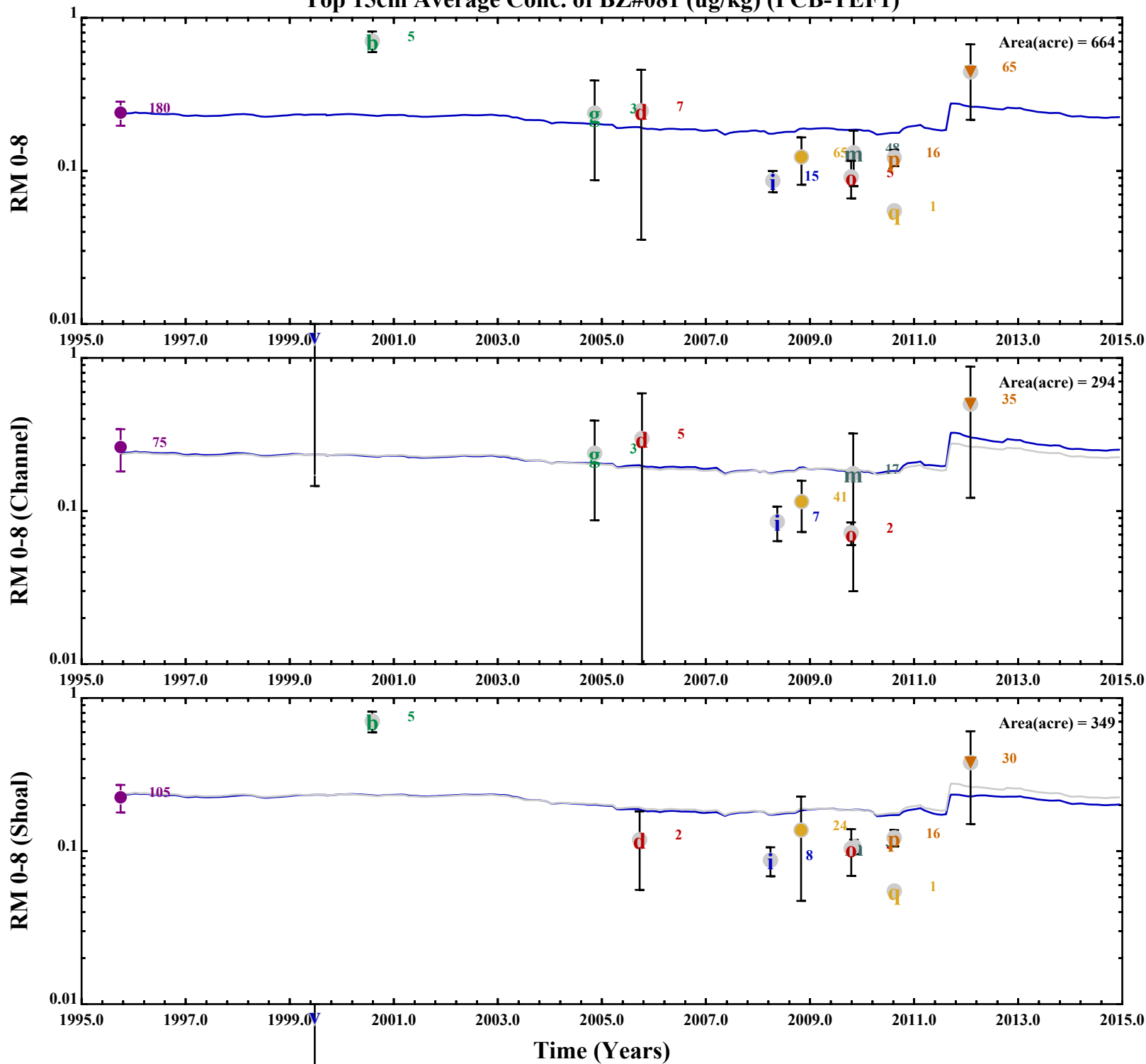


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

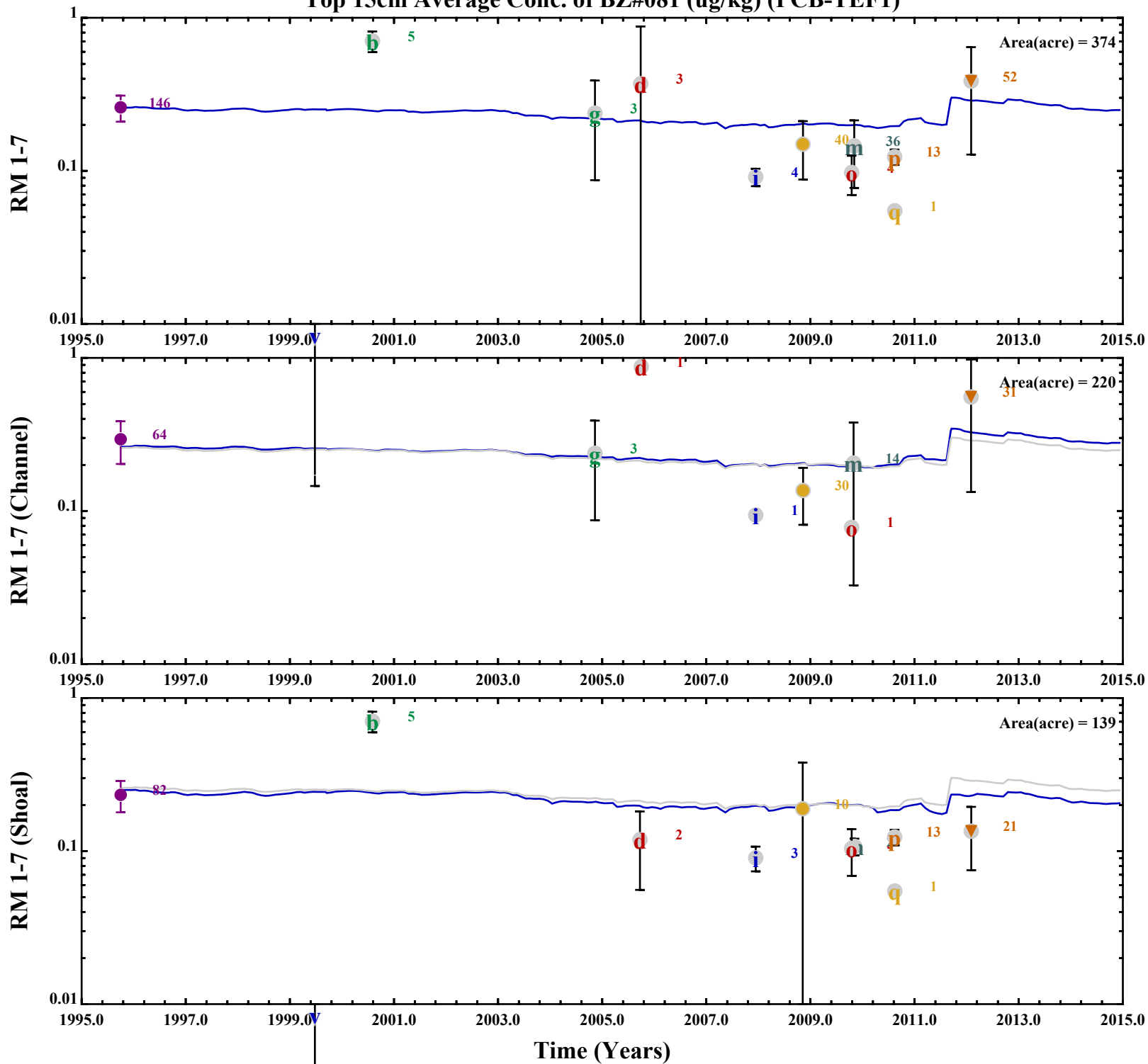
Time (Years)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - No Action Gradient IC, Reach Scale Up (Full Reach)

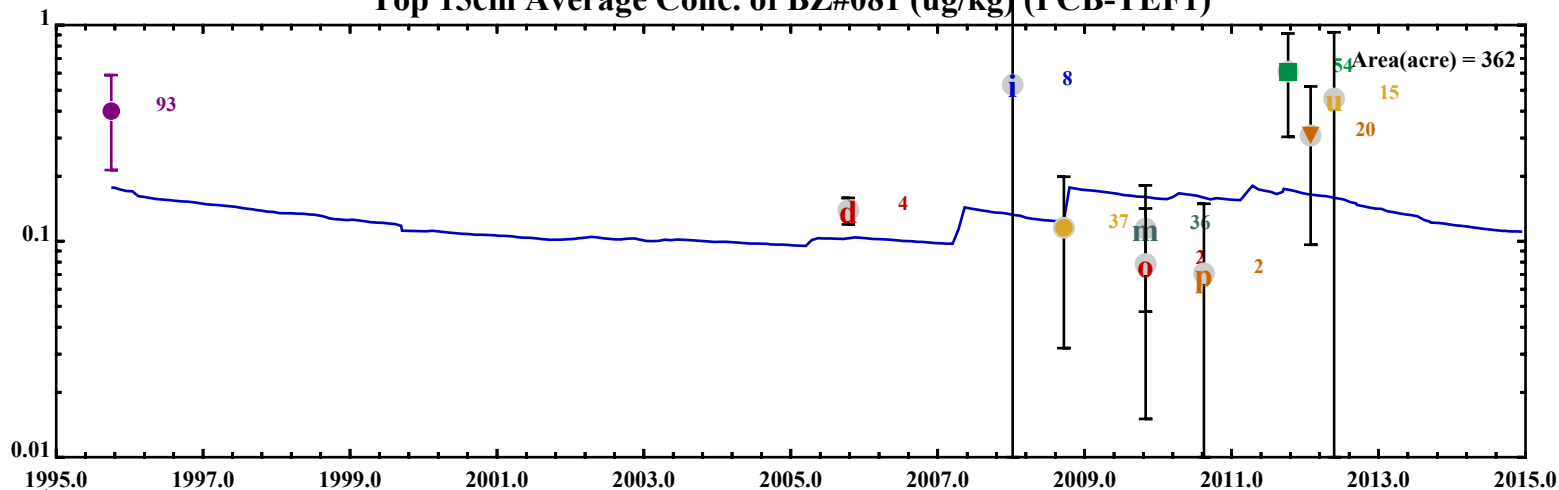
# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



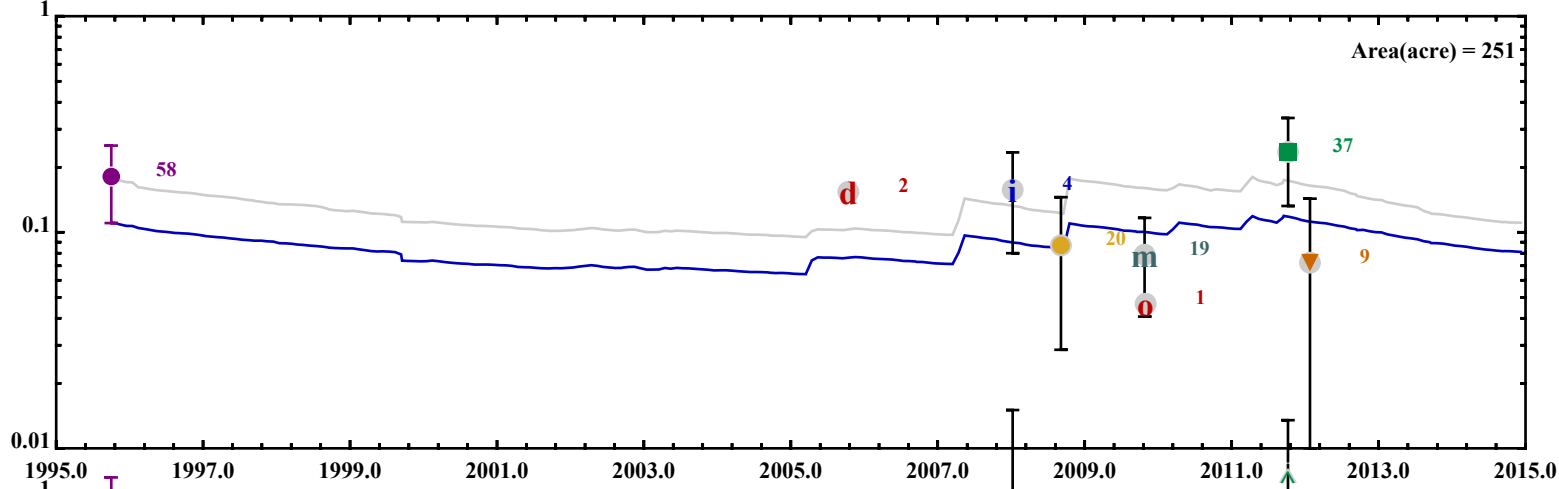
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)

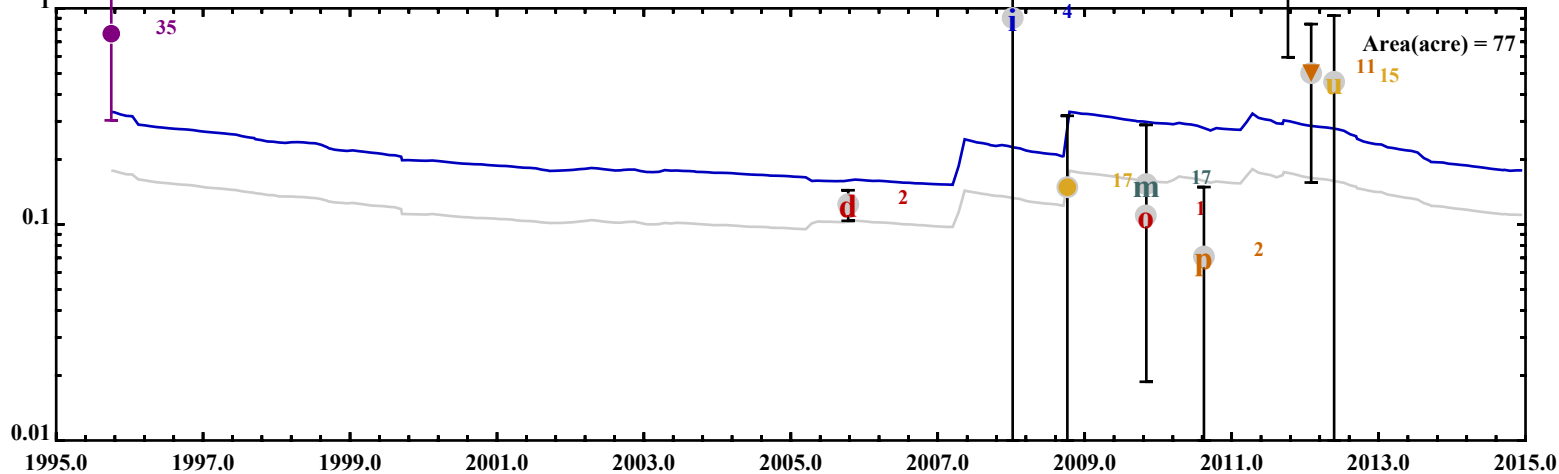
RM 8-17



RM 8-17 (Channel)



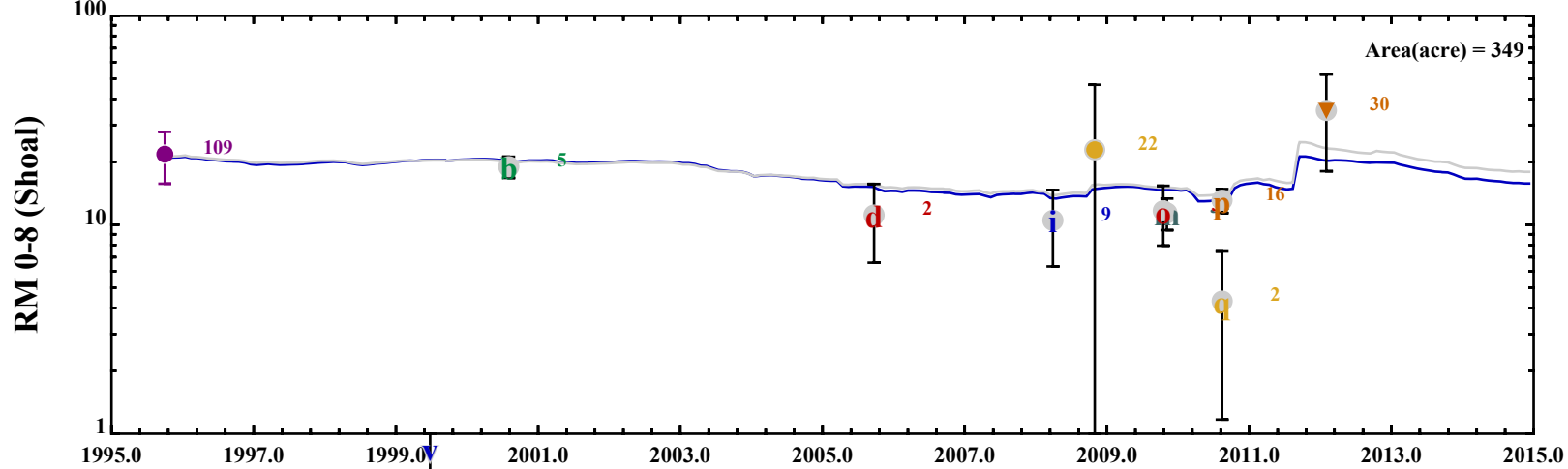
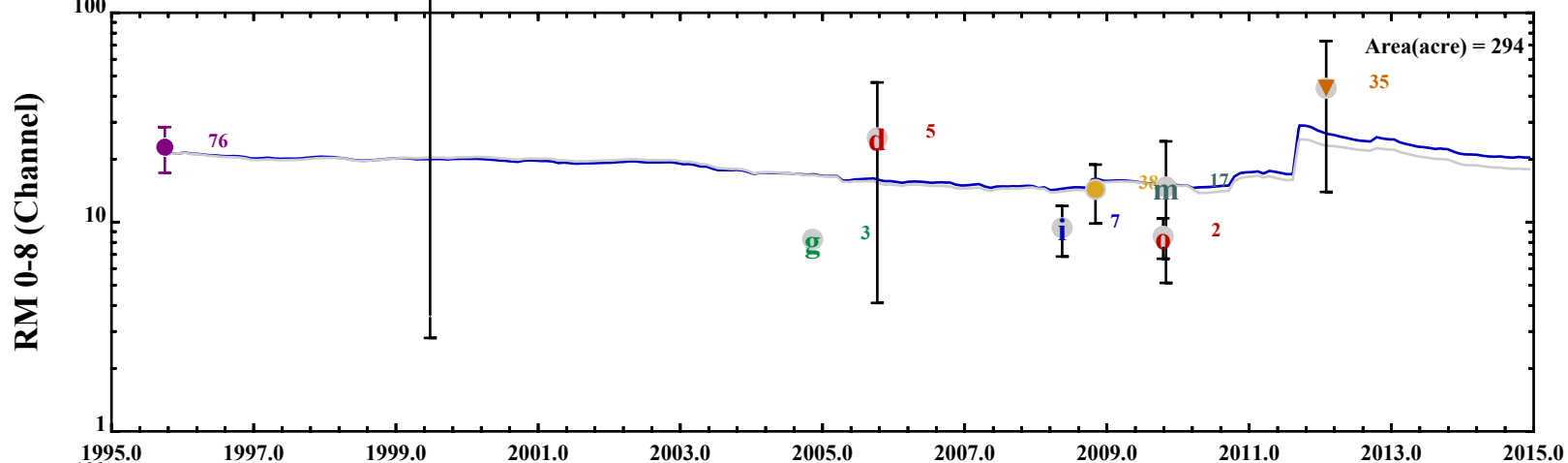
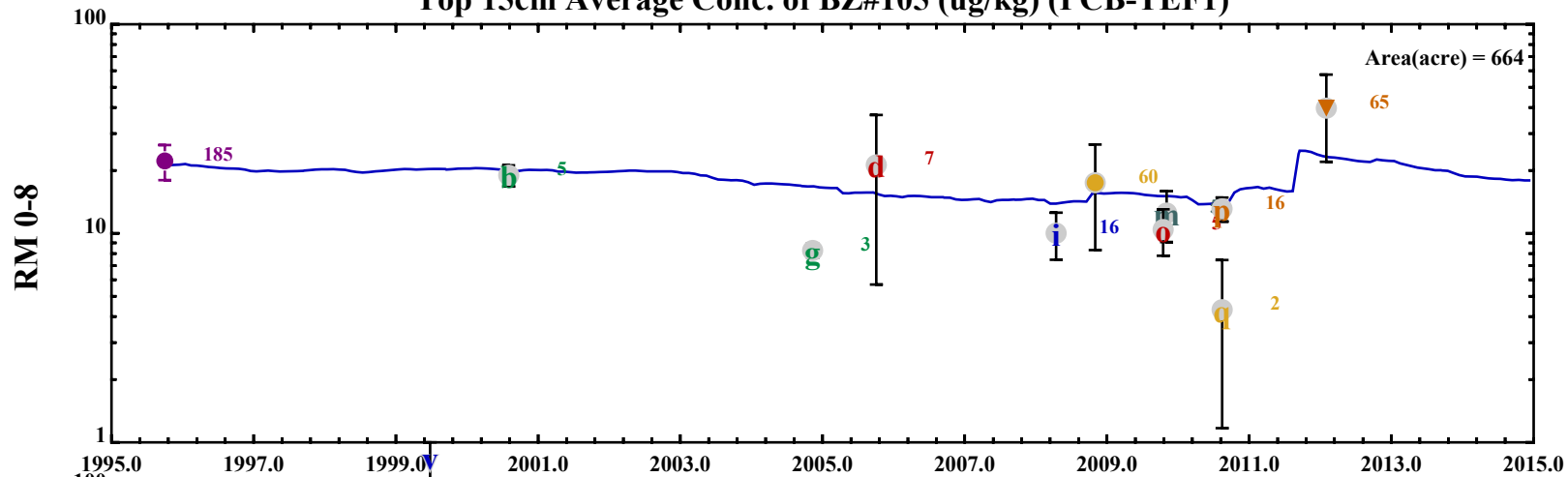
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



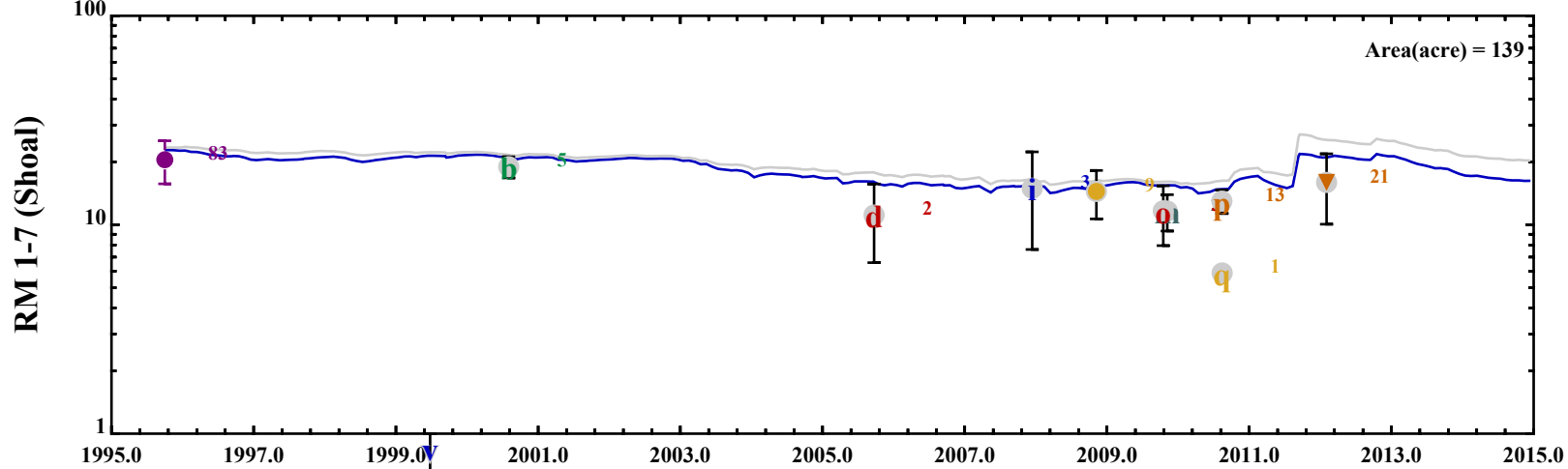
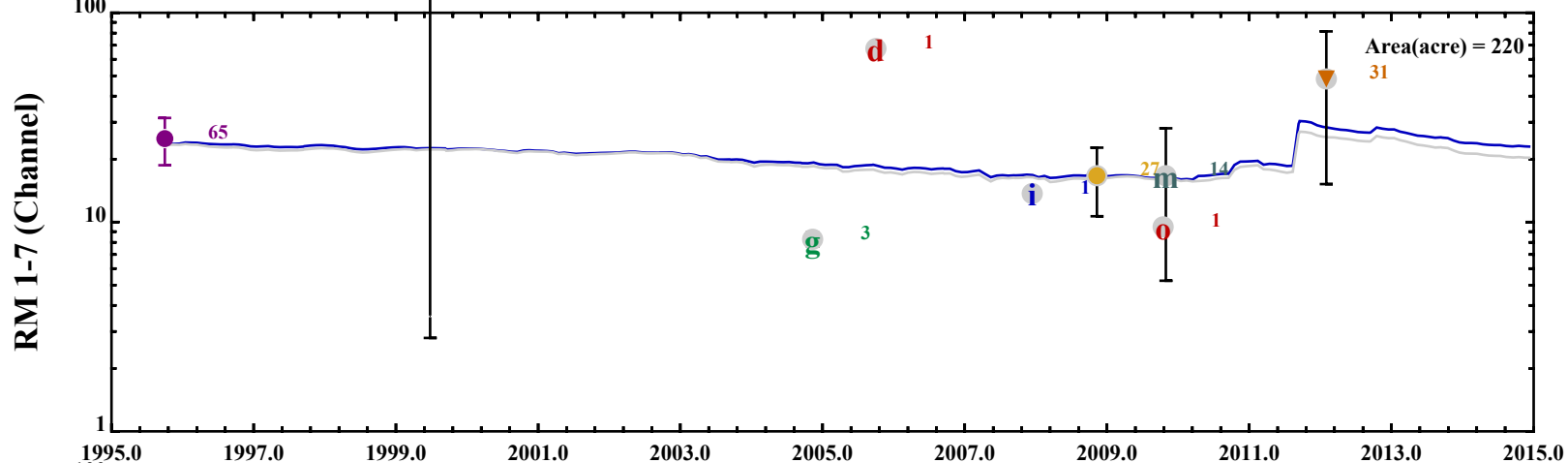
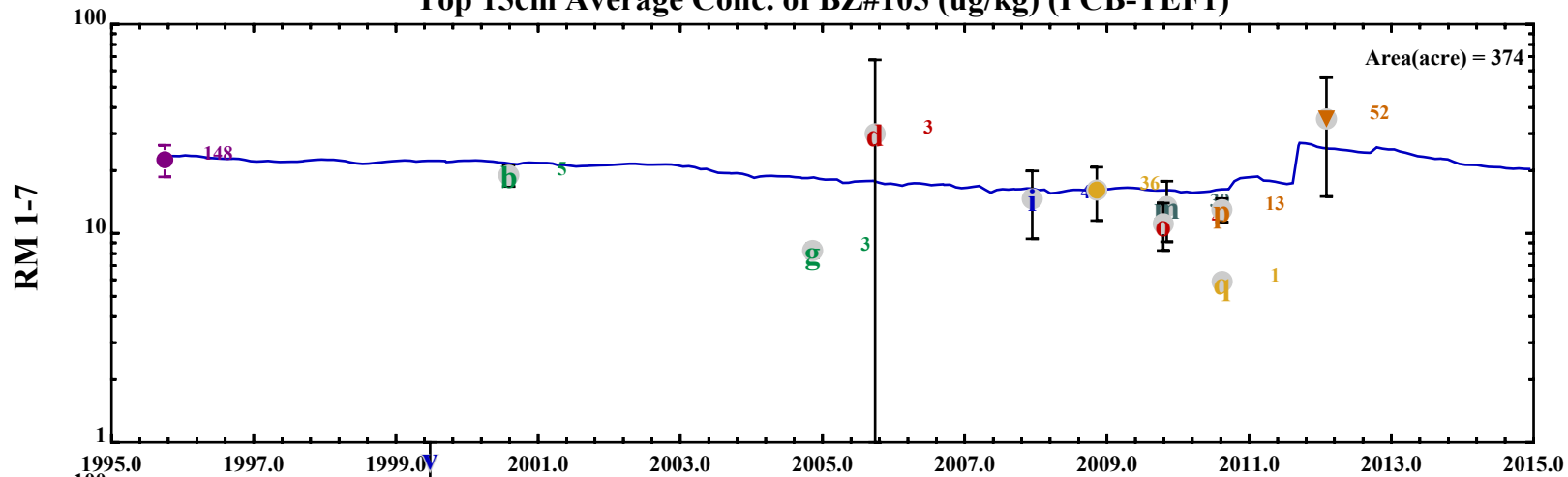
Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)

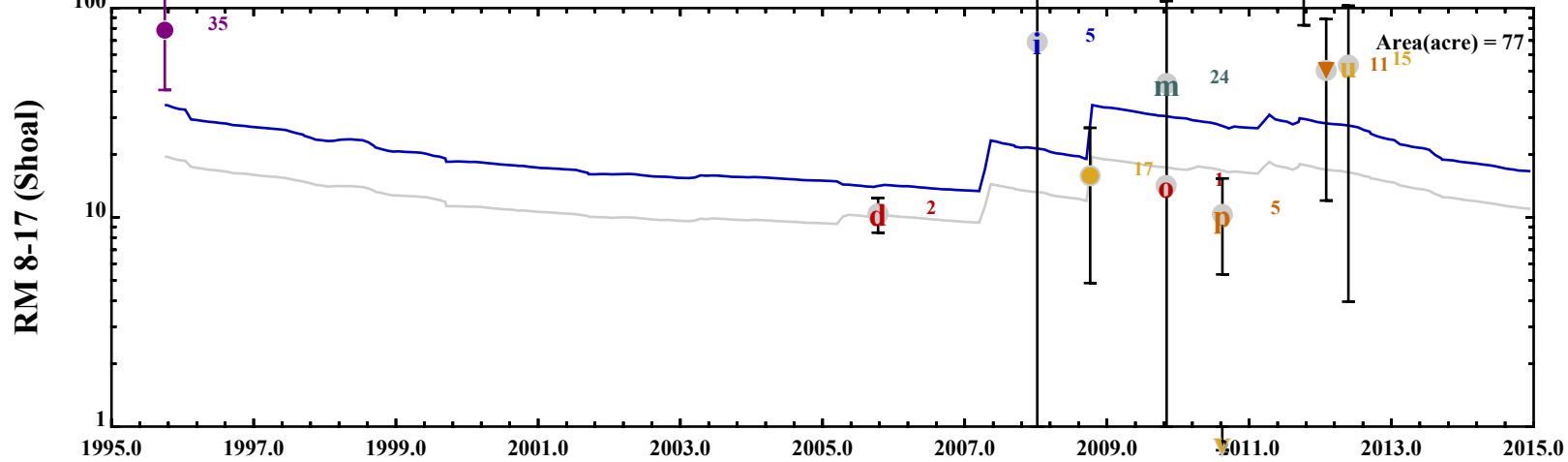
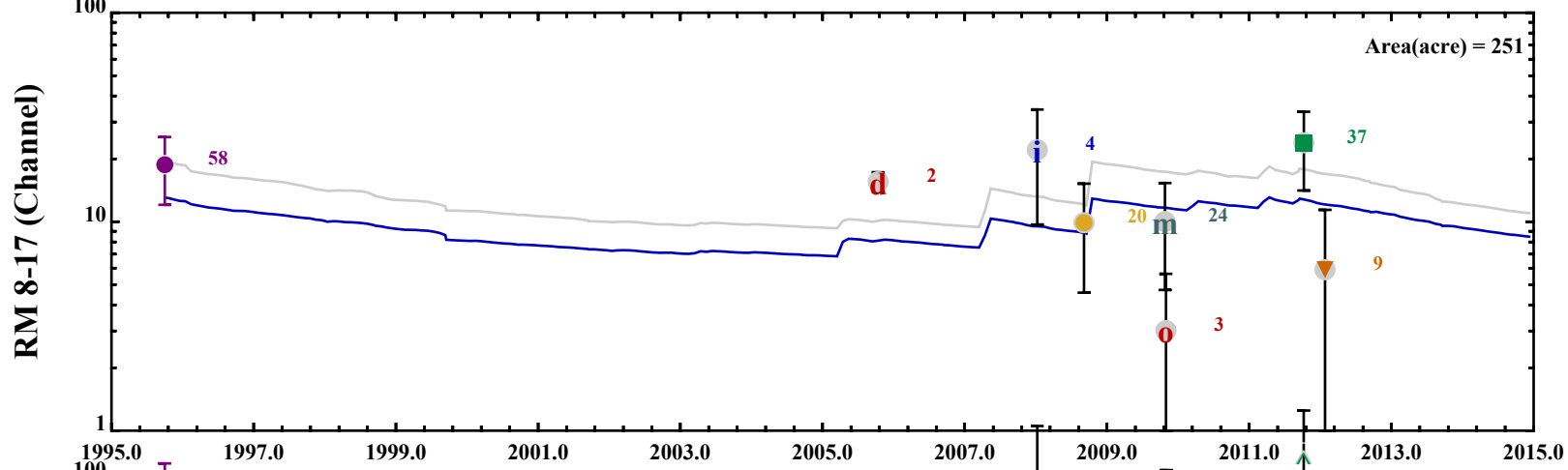
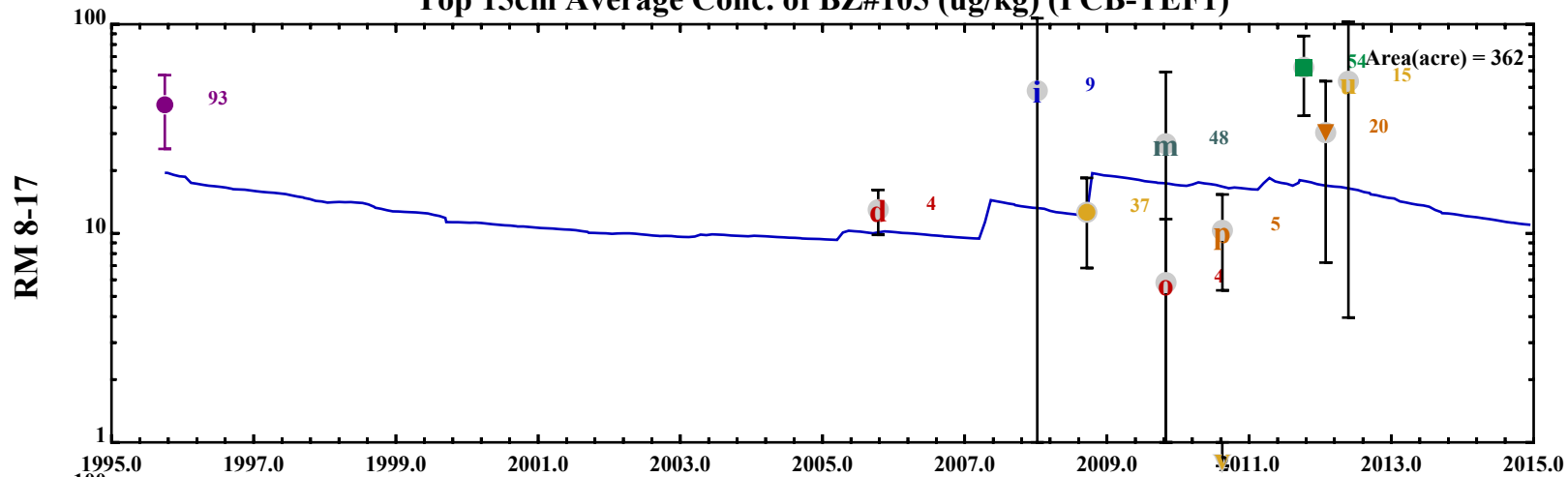


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990-92 EPA EMAP
  - 1991 Core Sediment Investigation
  - 1991-92 NOAA NS&T Hudson-Raritan Phase I
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II
  - 1993 REMAP
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 REMAP
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up (Blue line)  
 — No Action Gradient IC, Reach Scale Up (Full Reach) (Grey line)

Time (Years)



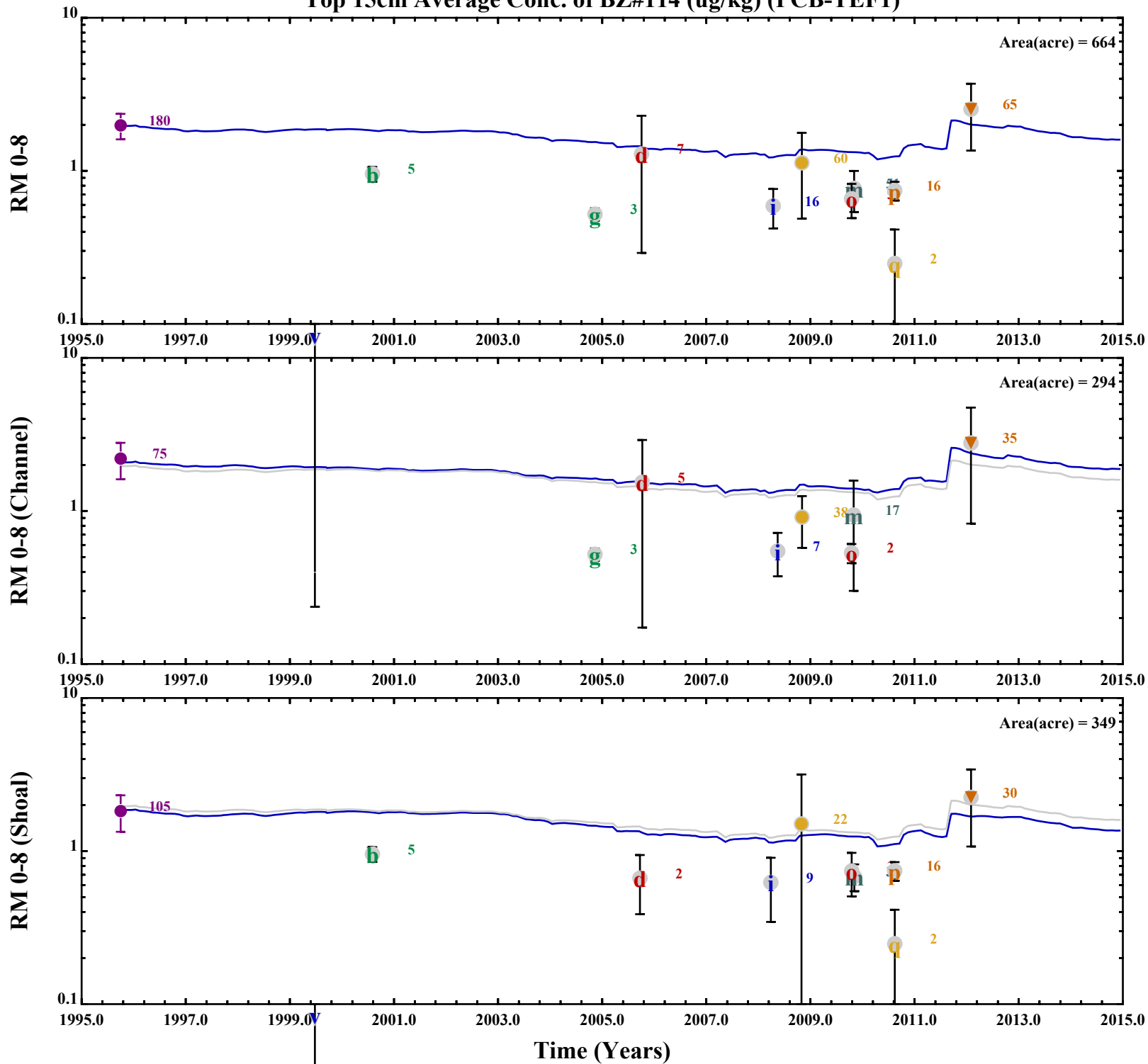
# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

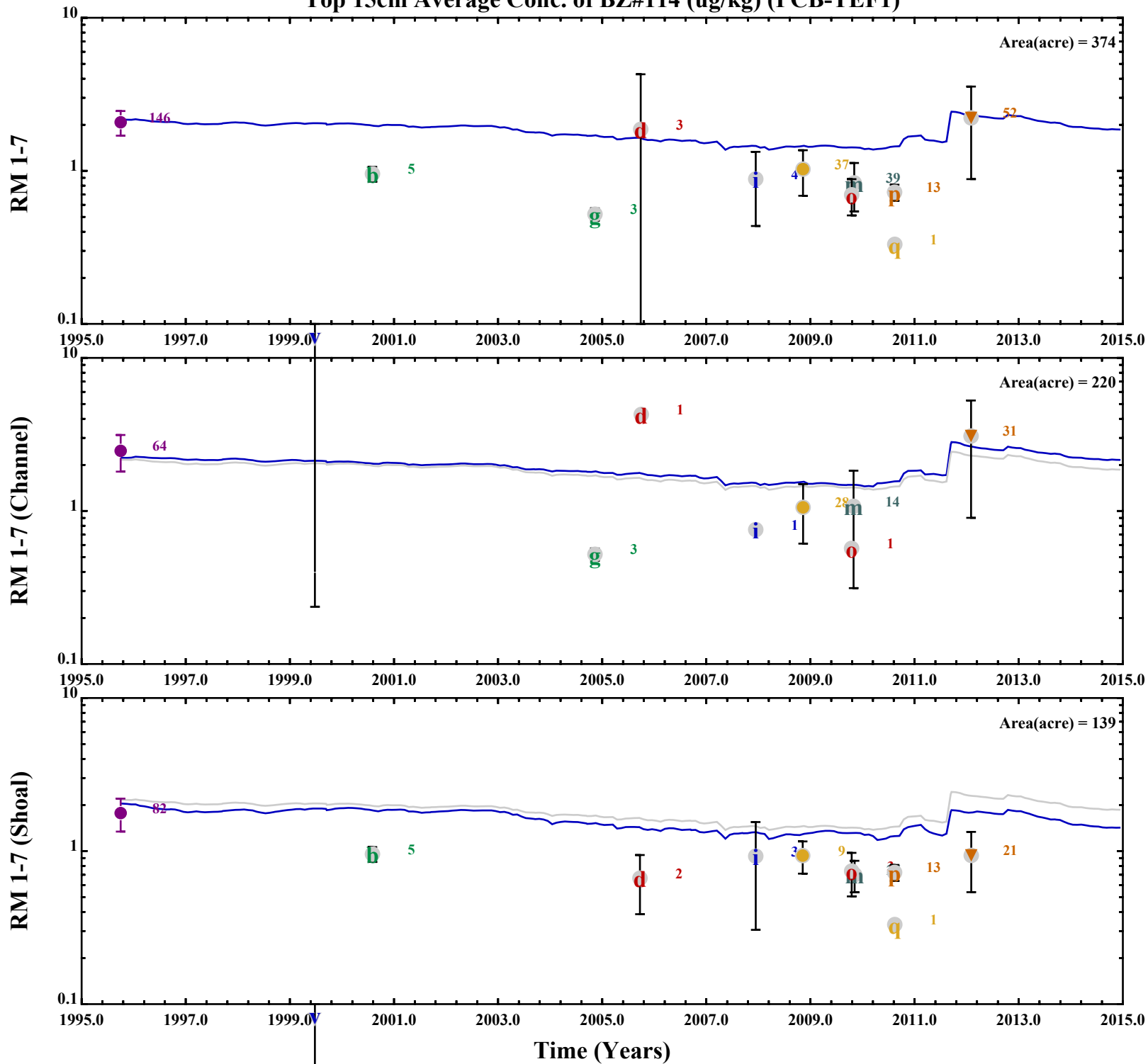
Time (Years)

# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

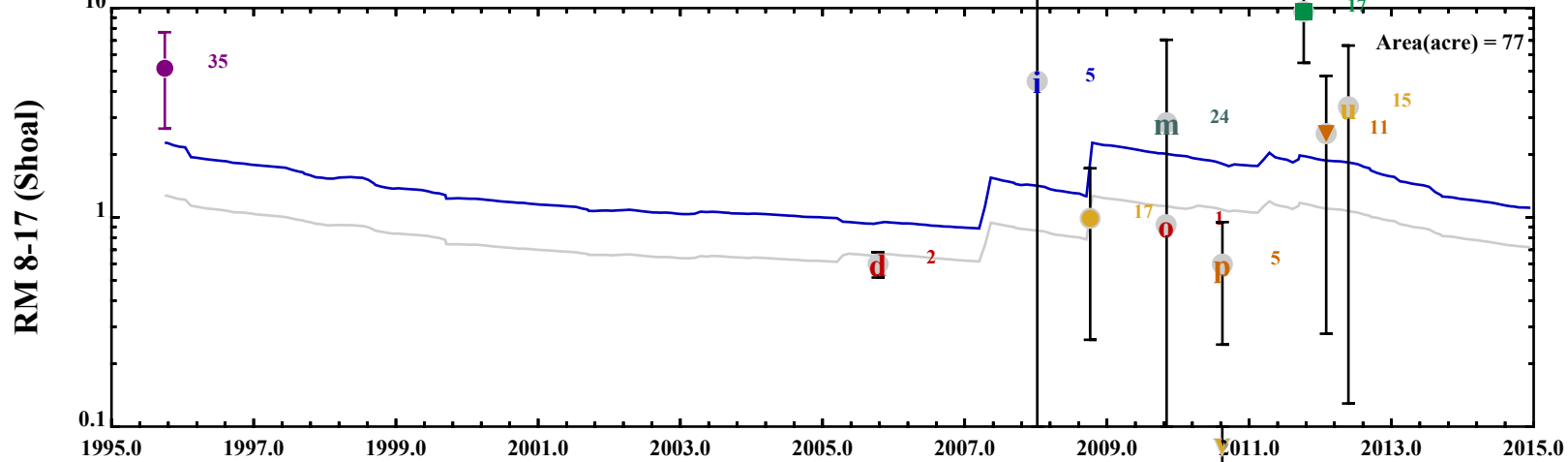
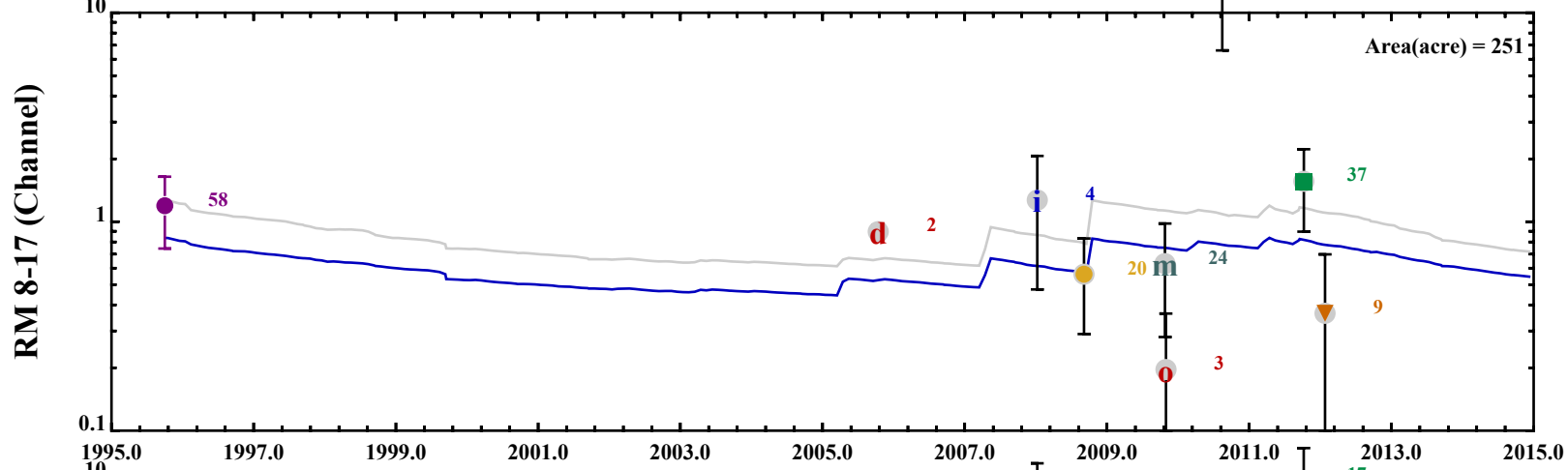
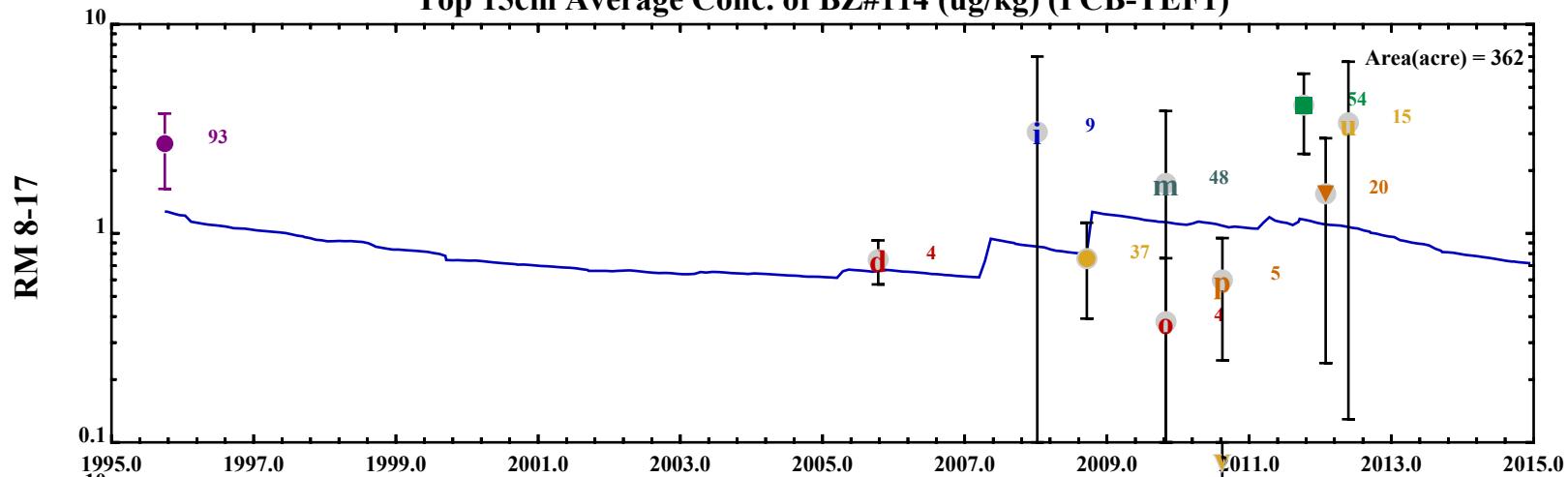
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)

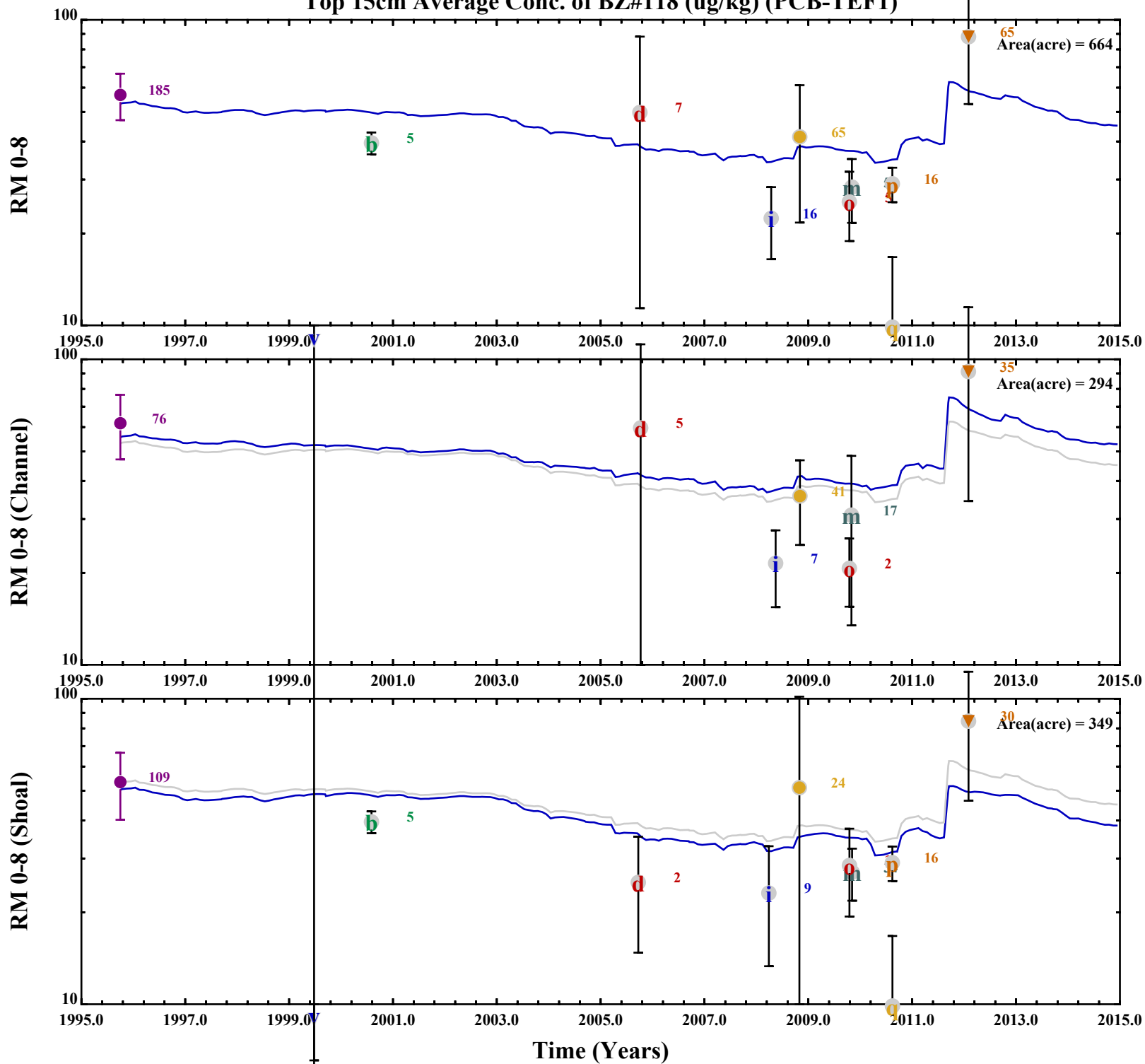


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

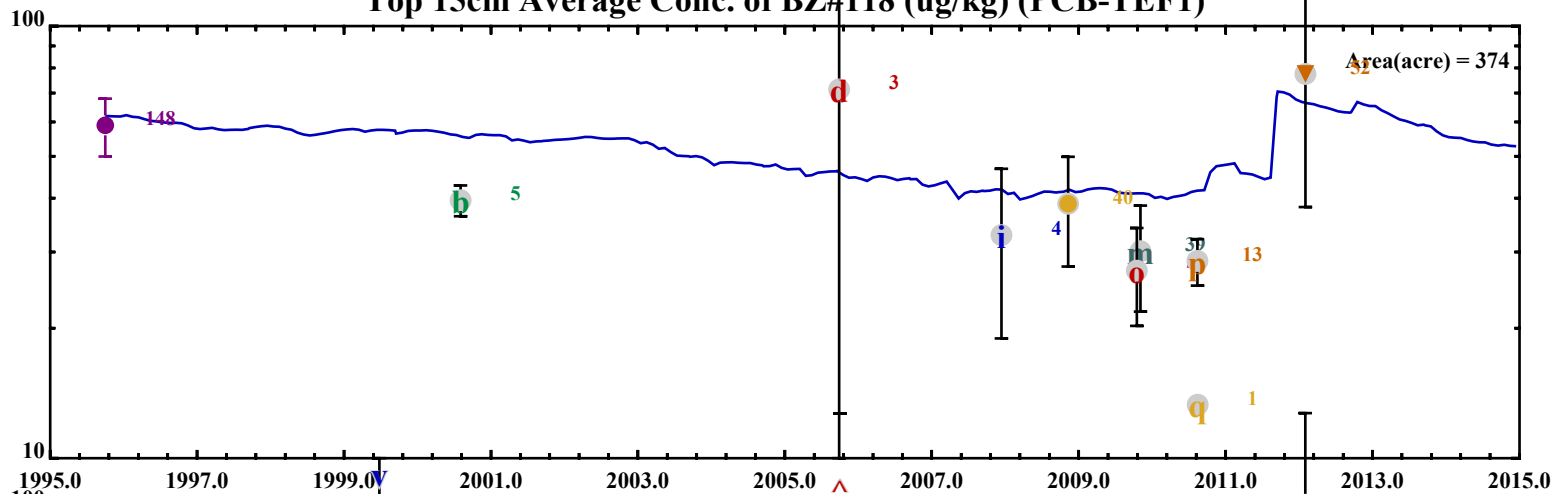


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

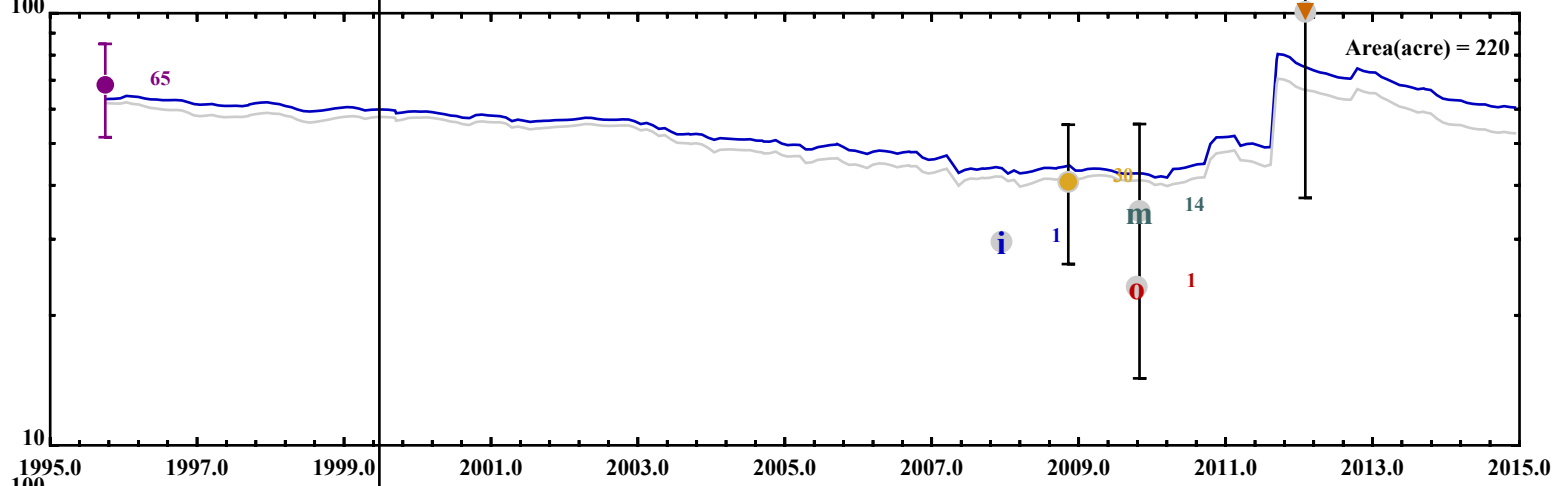
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

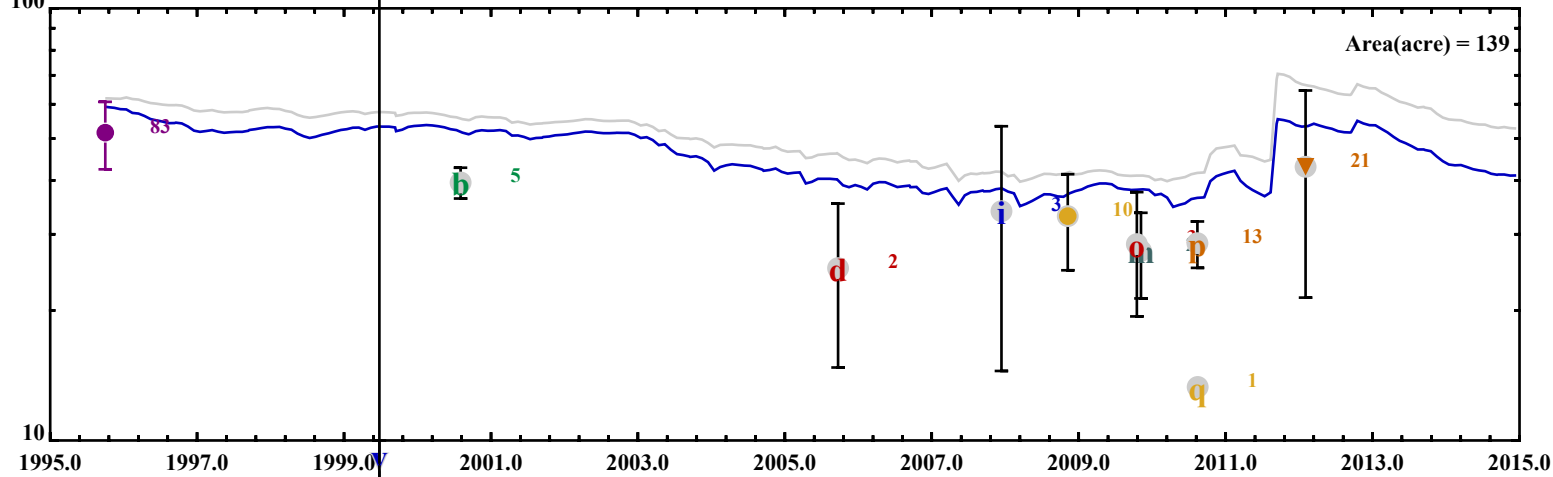
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)



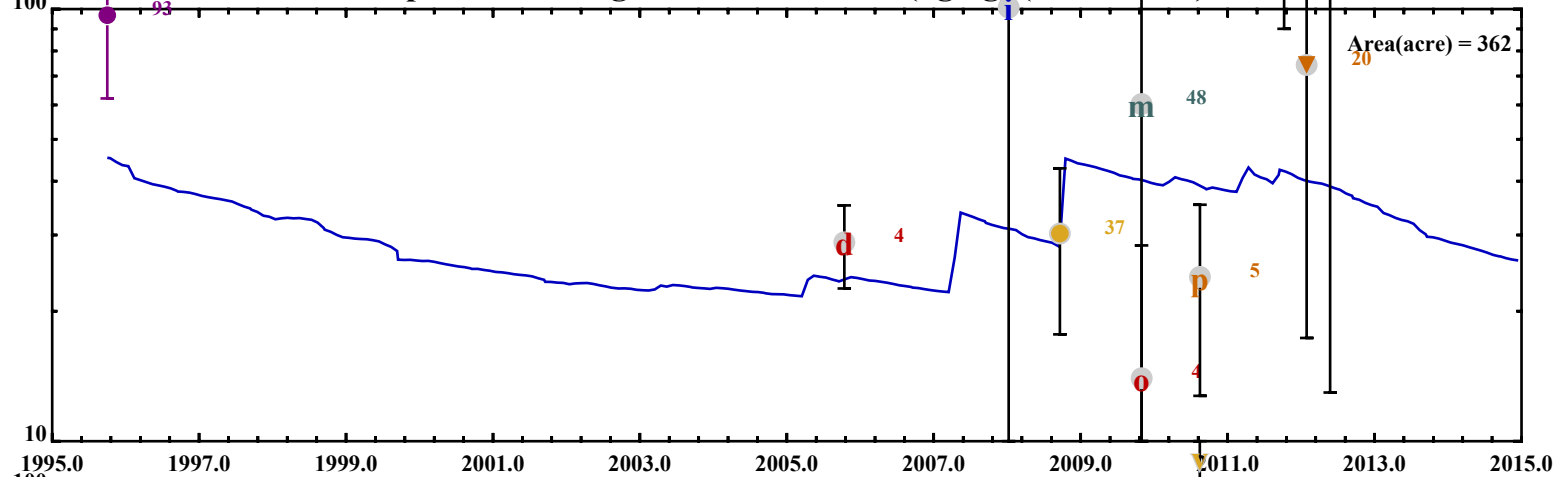
Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

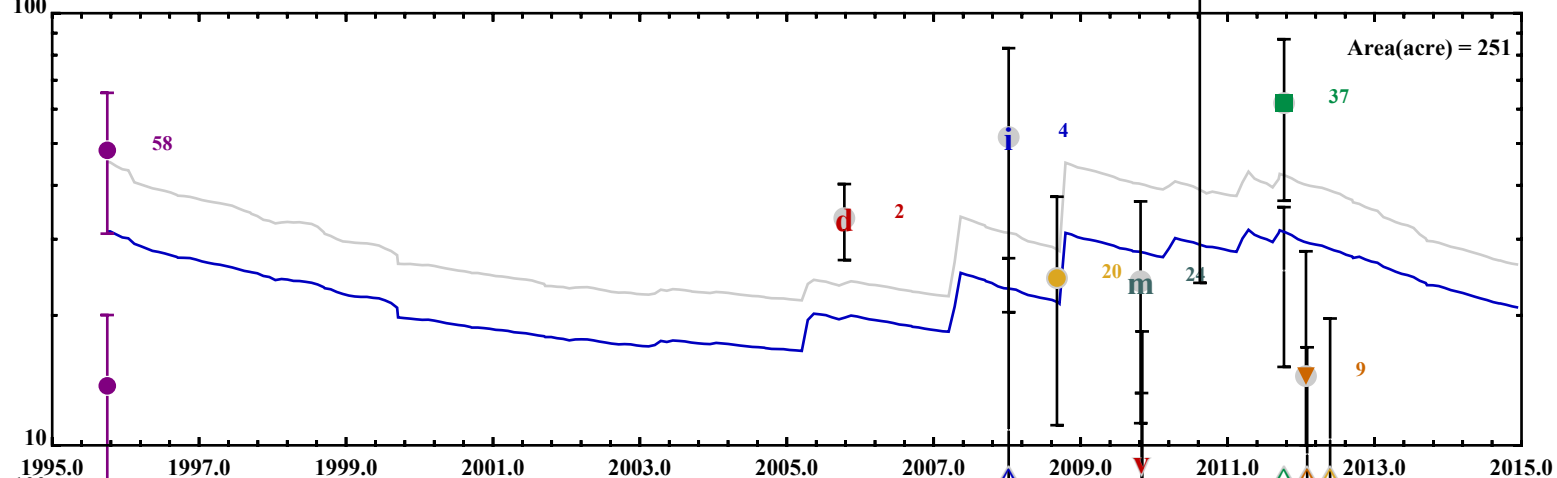
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

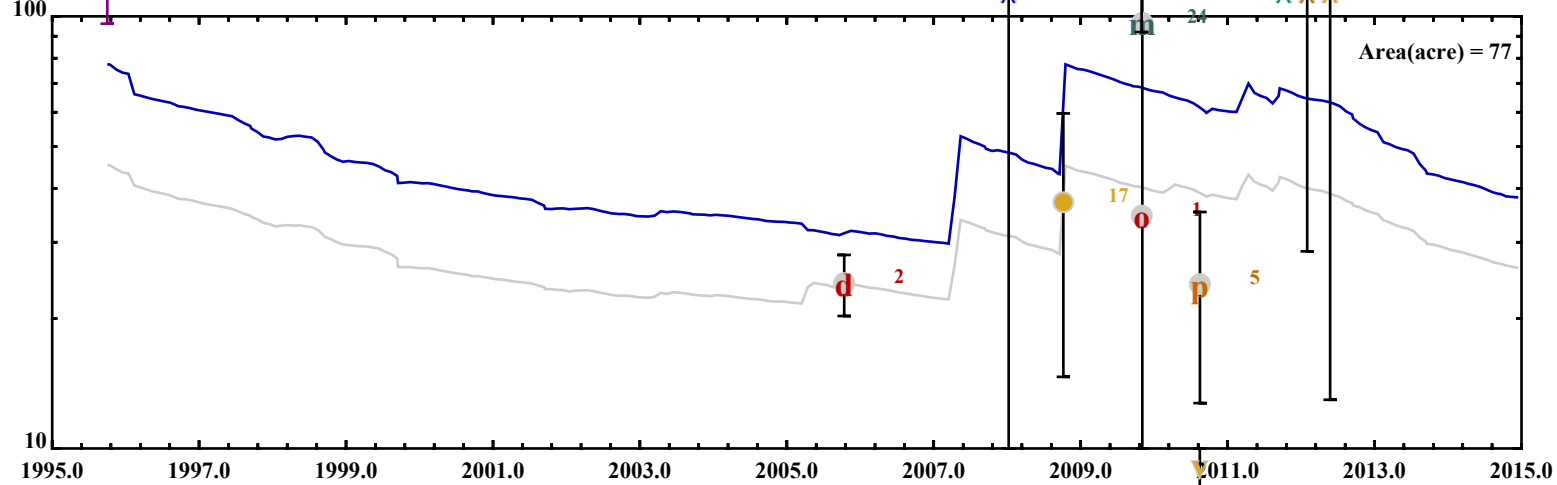
RM 8-17



RM 8-17 (Channel)



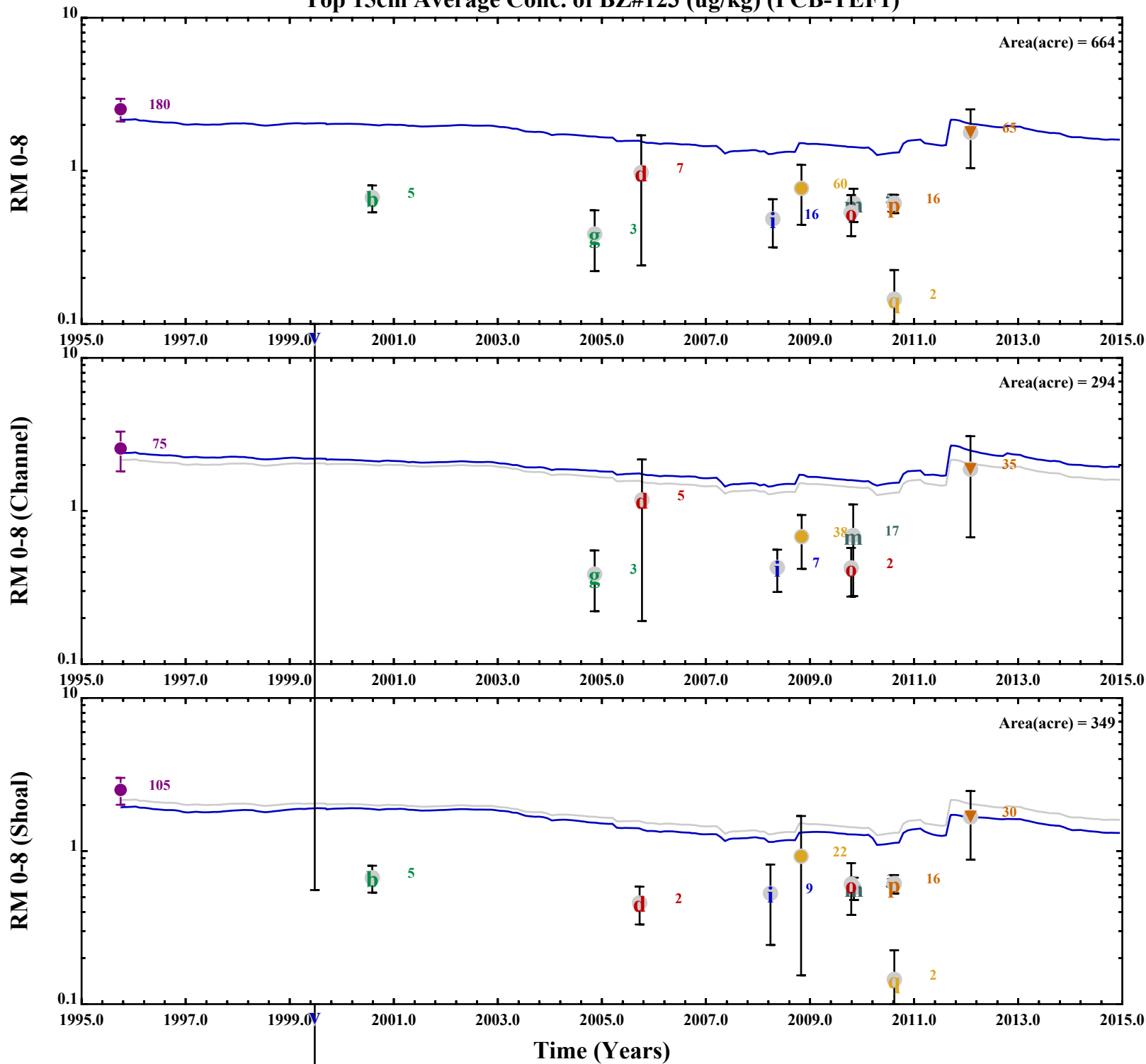
RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)

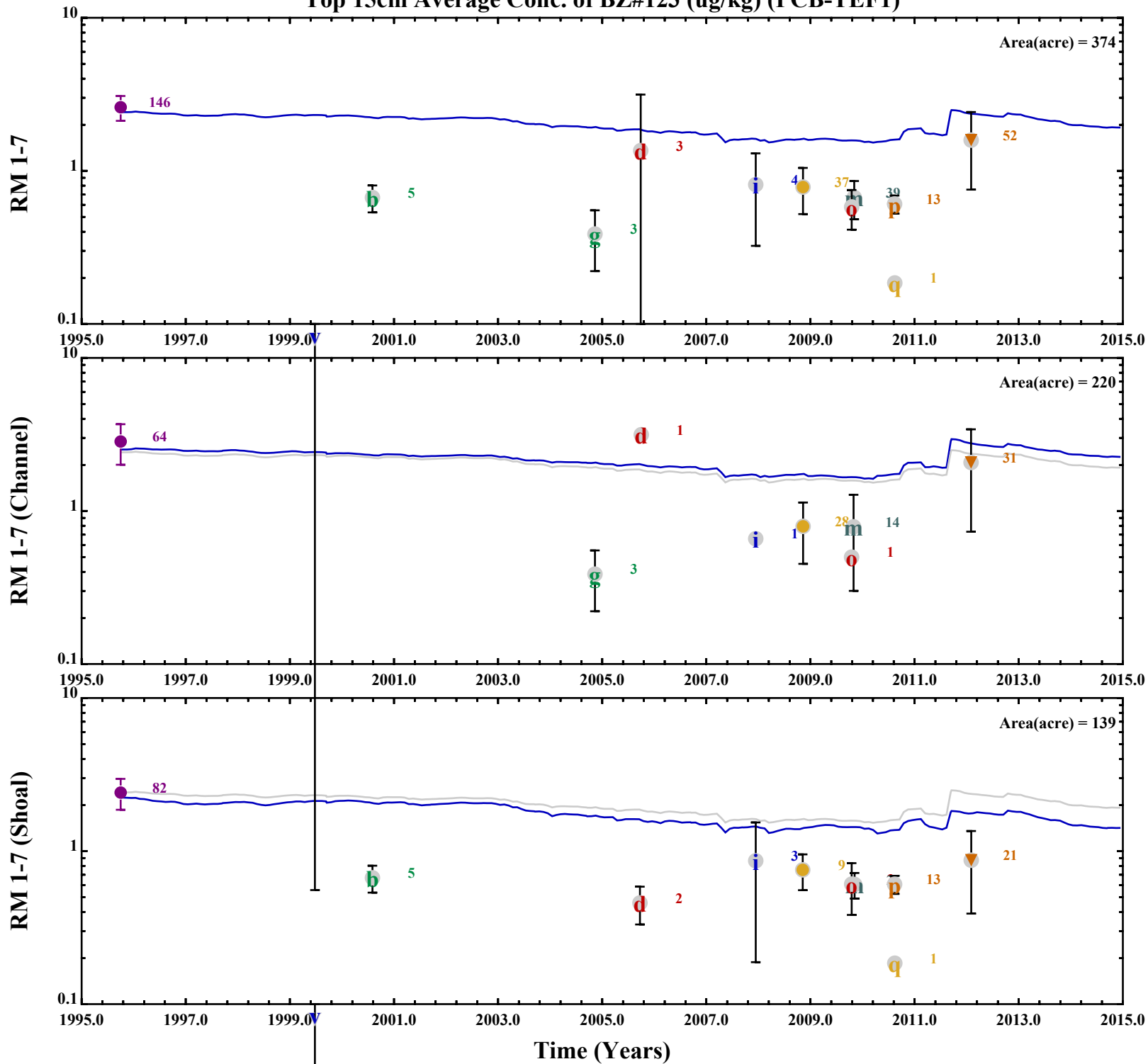


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



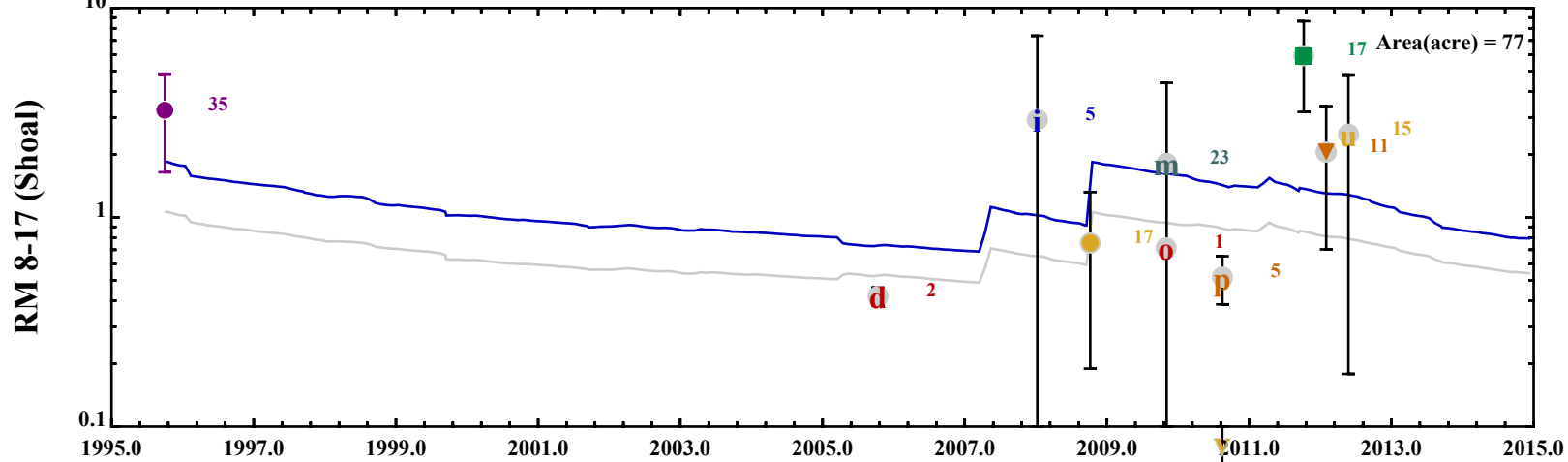
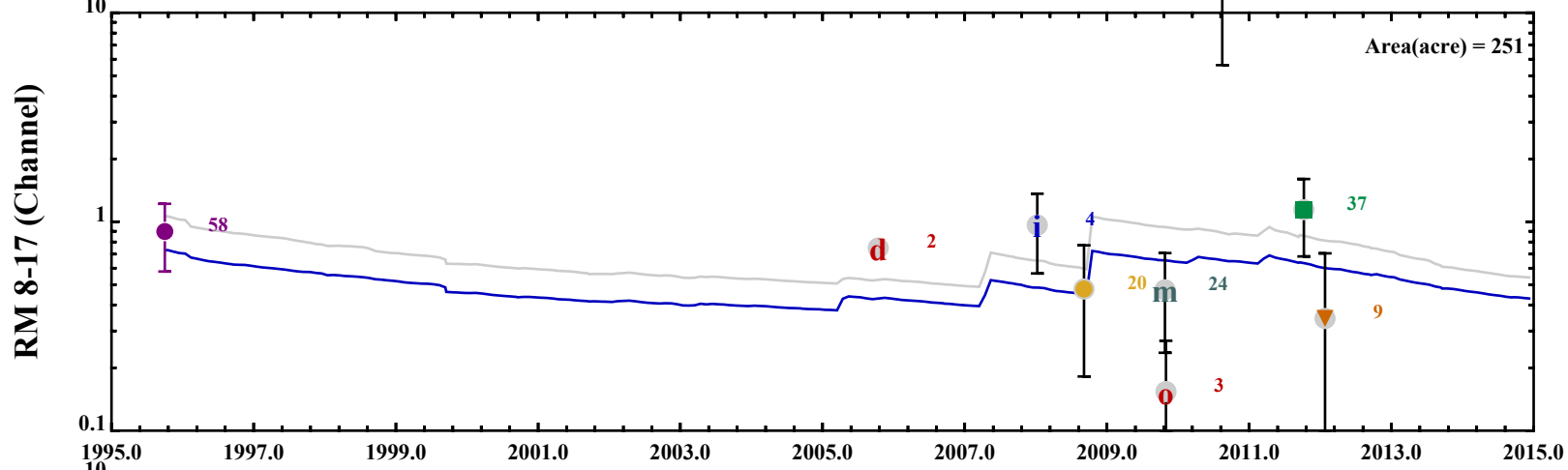
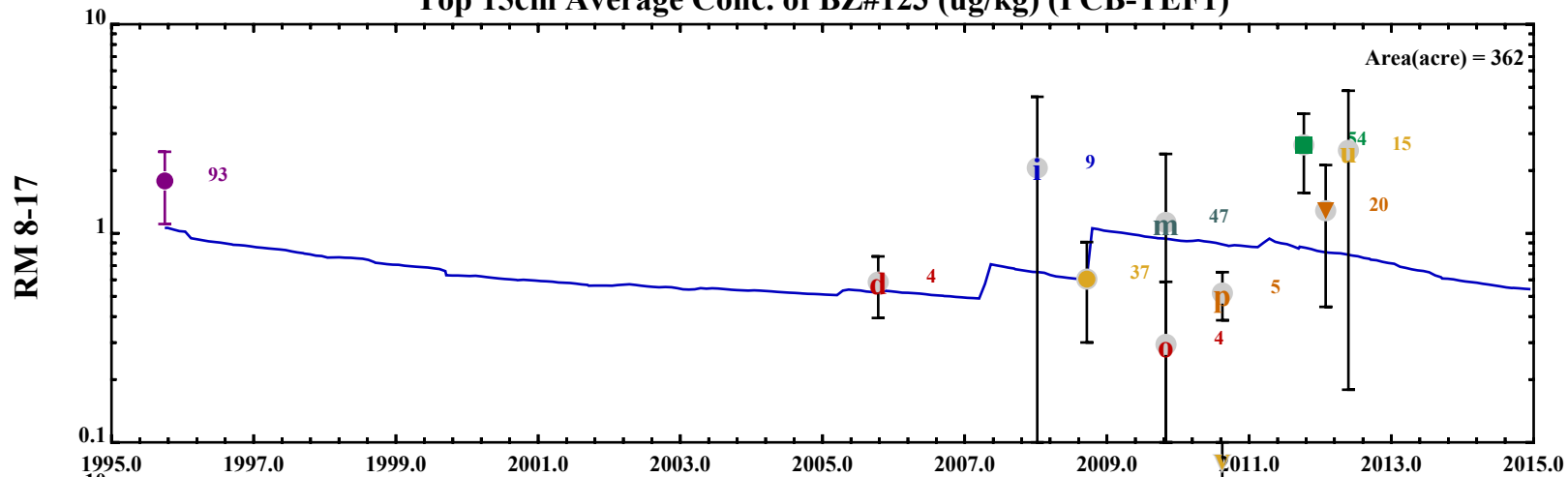
# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

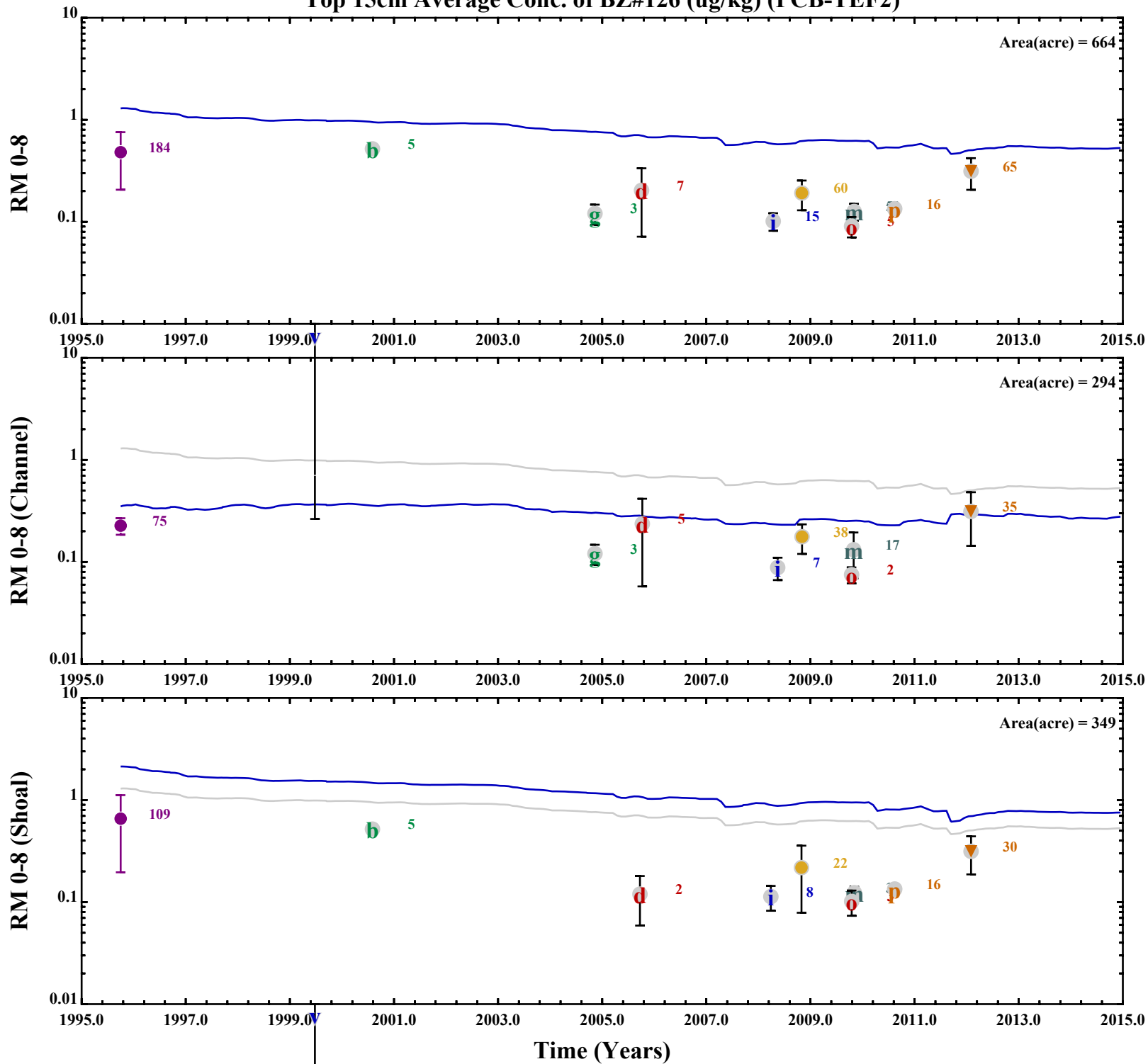
# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

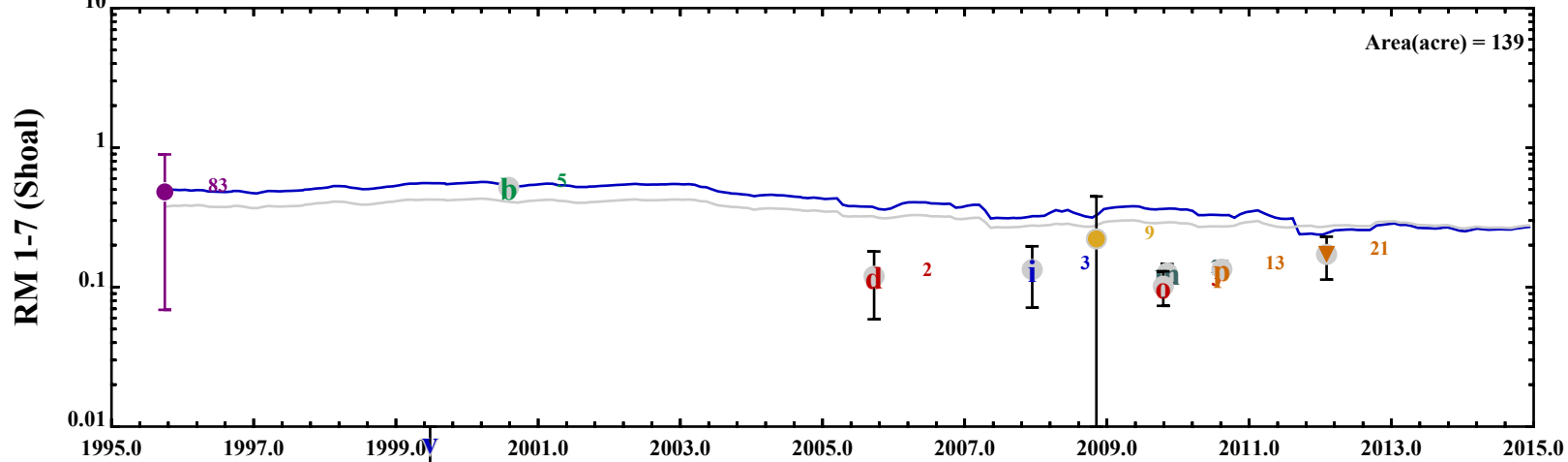
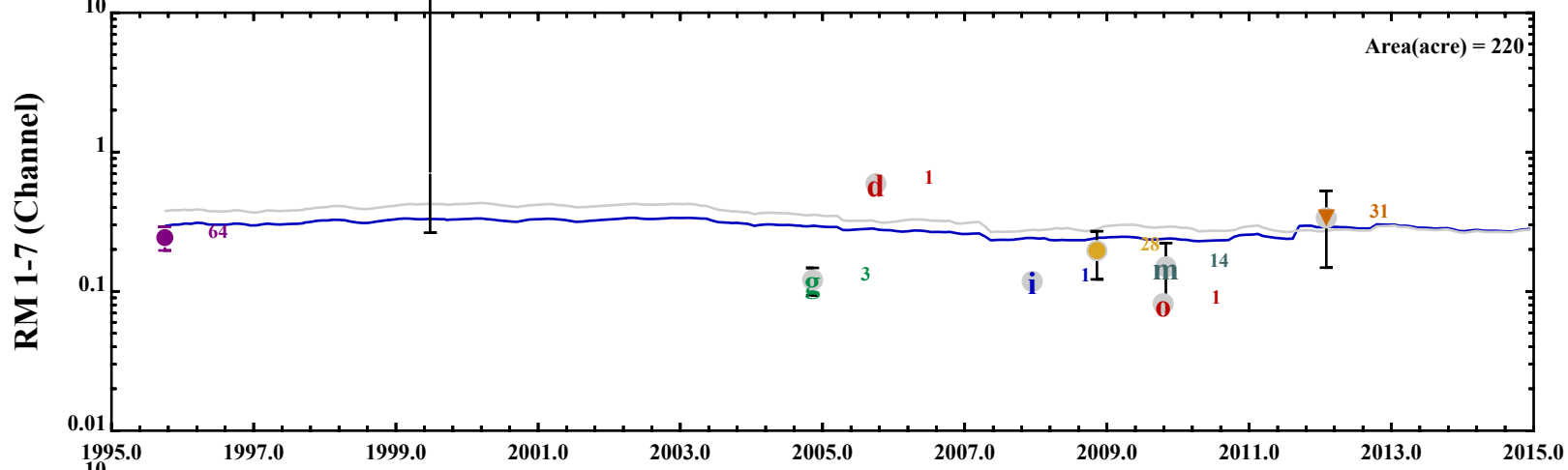
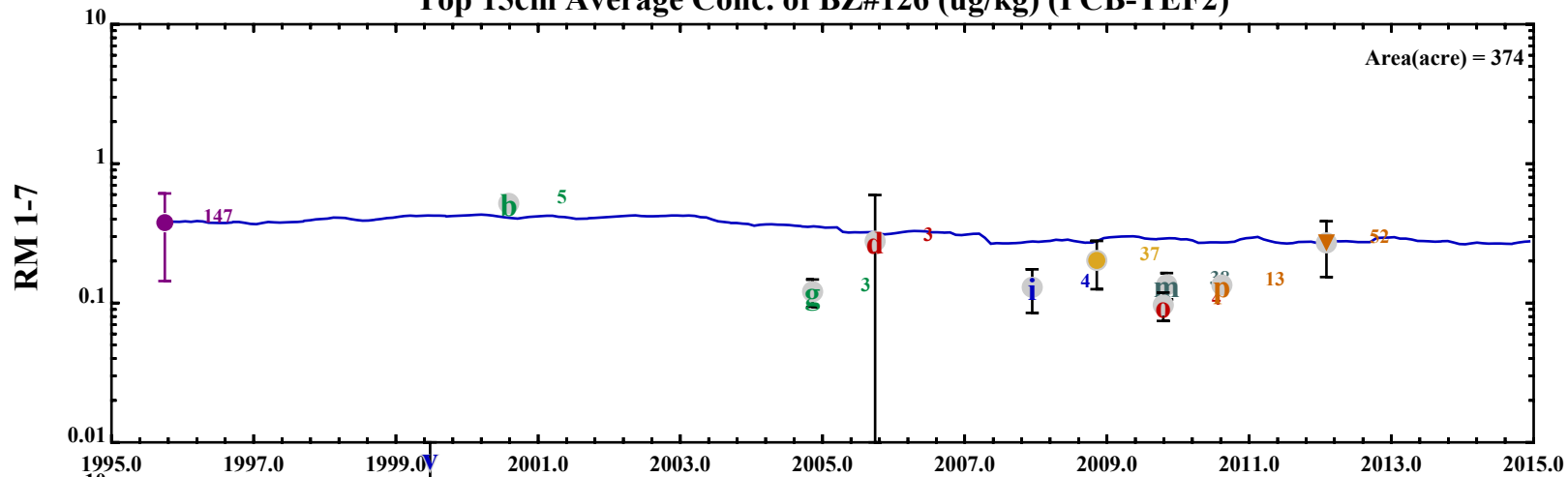


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1994 Core Sediment Investigation
- 1994 Surficial Sediment Investigation
- 1994 Surficial Sediment Investigation
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

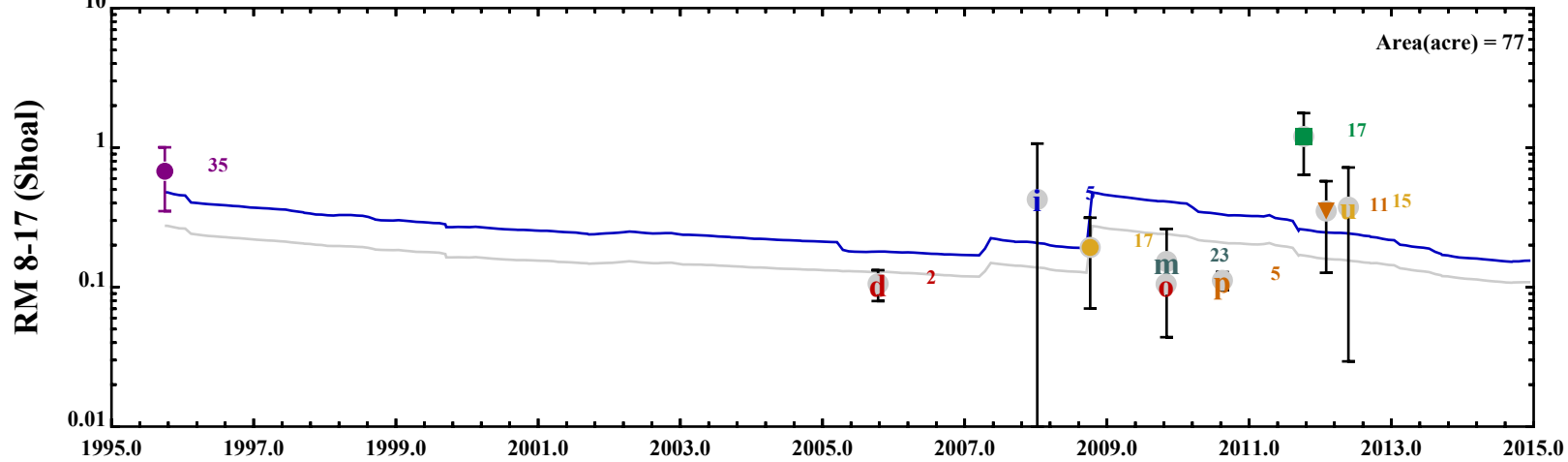
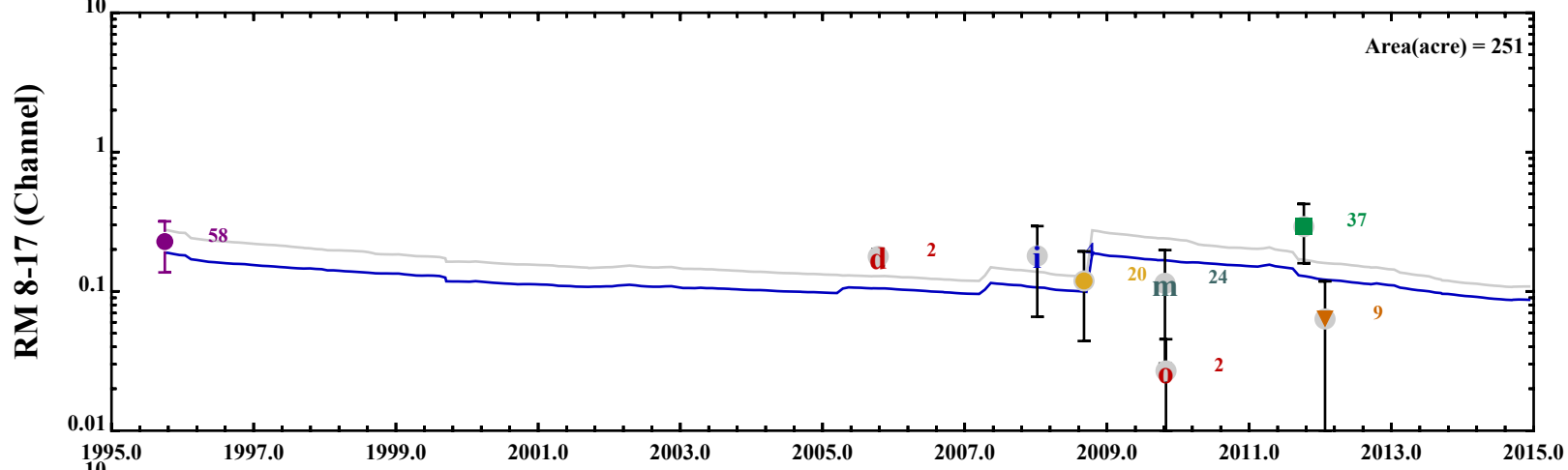
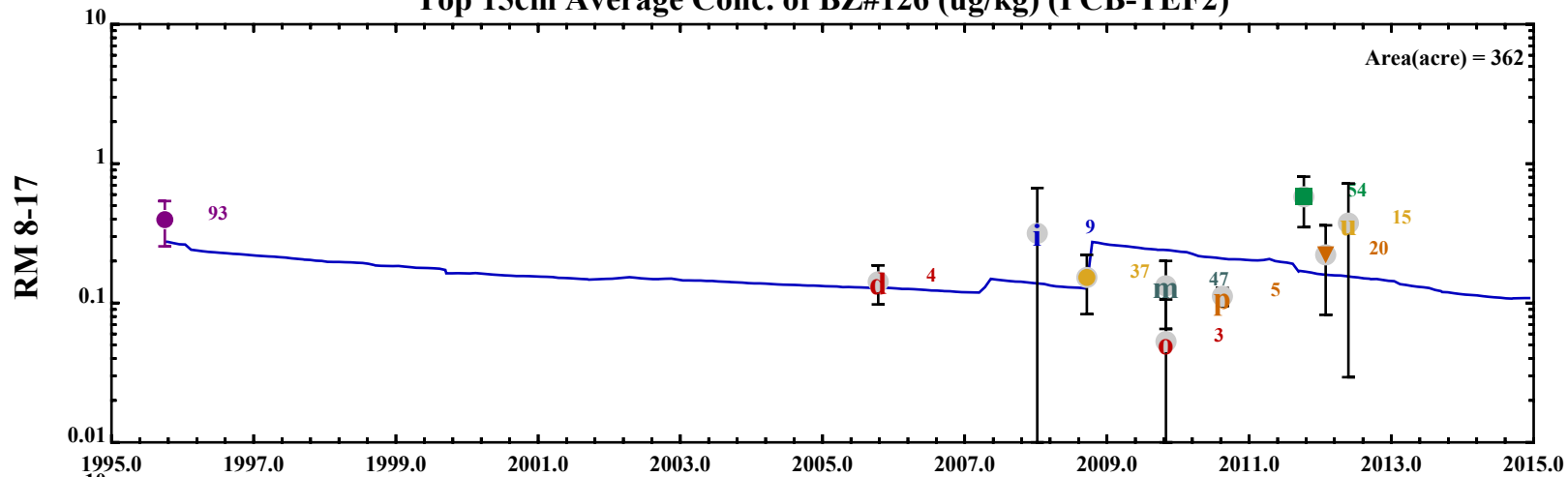
# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- U 1999 Late Summer/Early Fall ESP Sampling Program
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- c 2005 MPI - Newark Bay Phase I Oversight
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

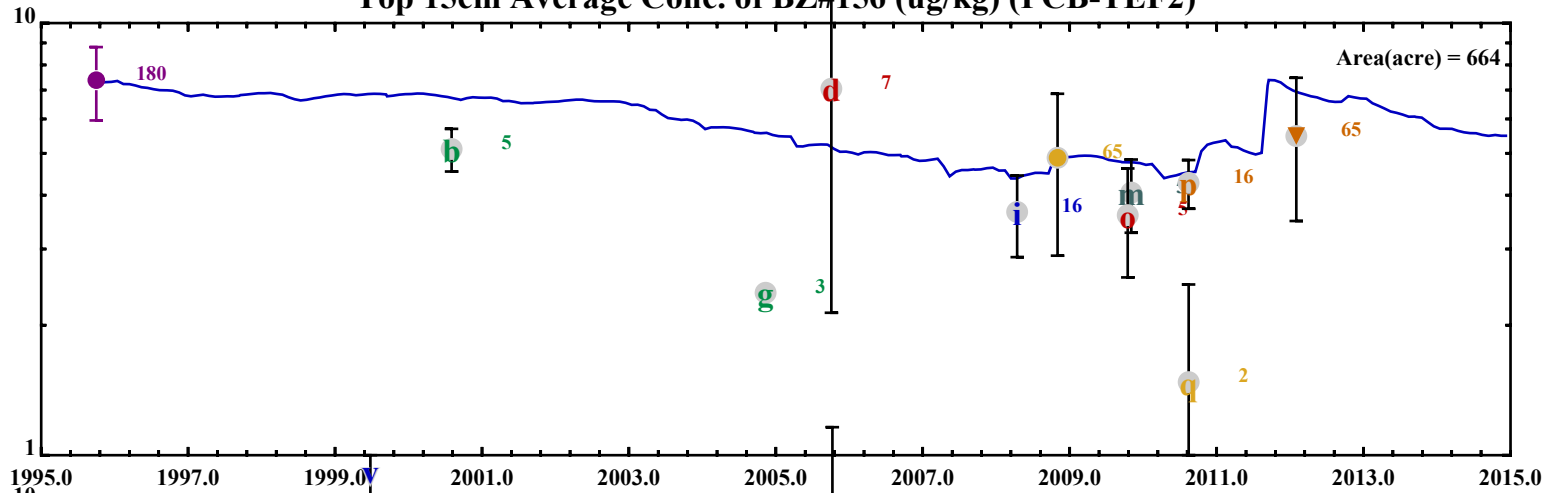


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

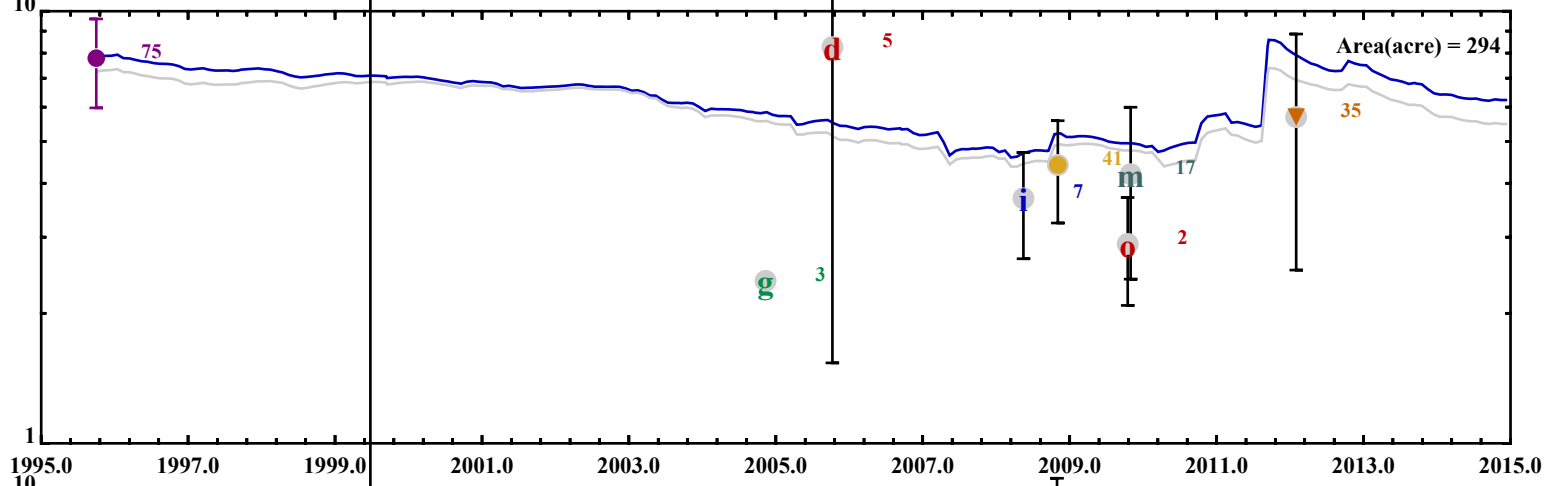
Time (Years)

# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

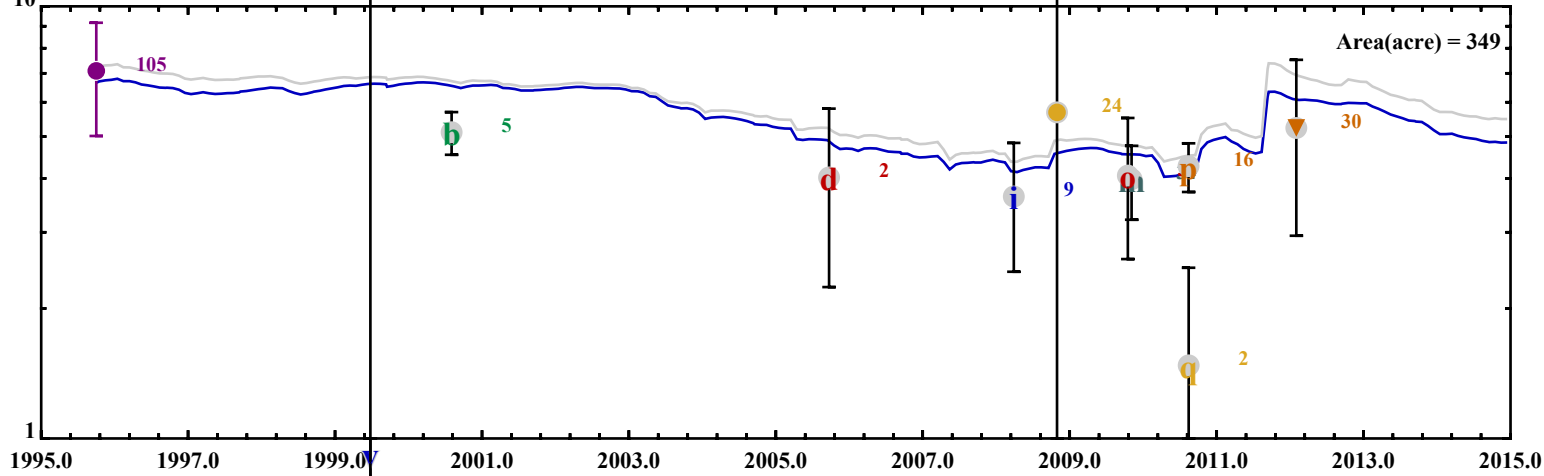
RM 0-8



RM 0-8 (Channel)



RM 0-8 (Shoal)

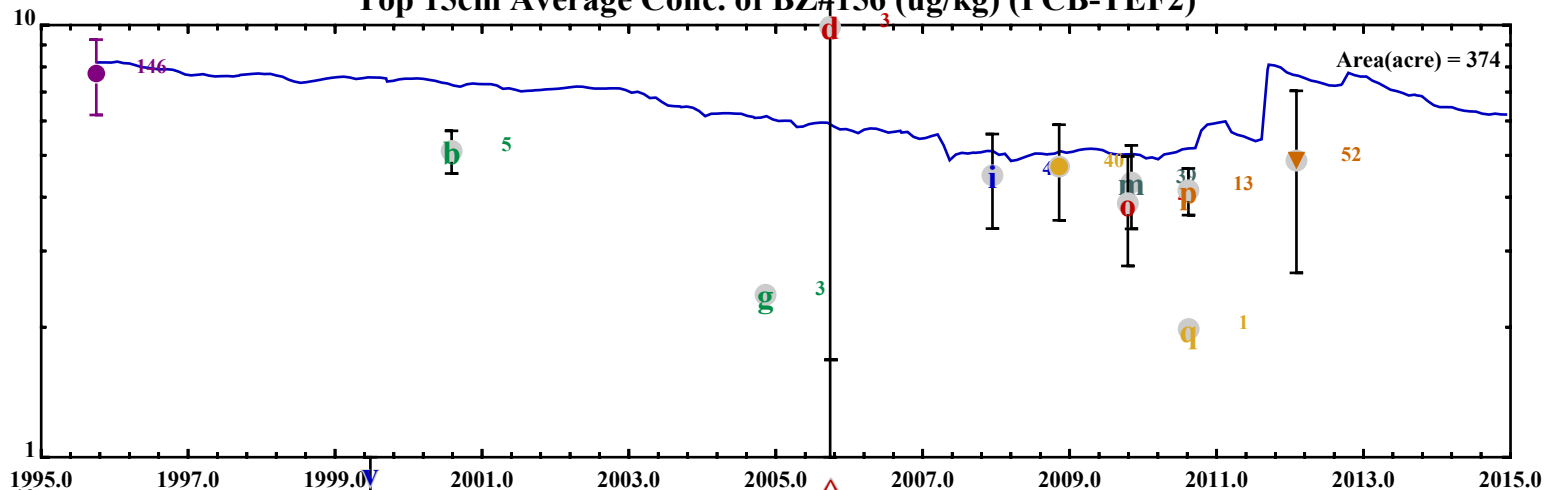


Time (Years)

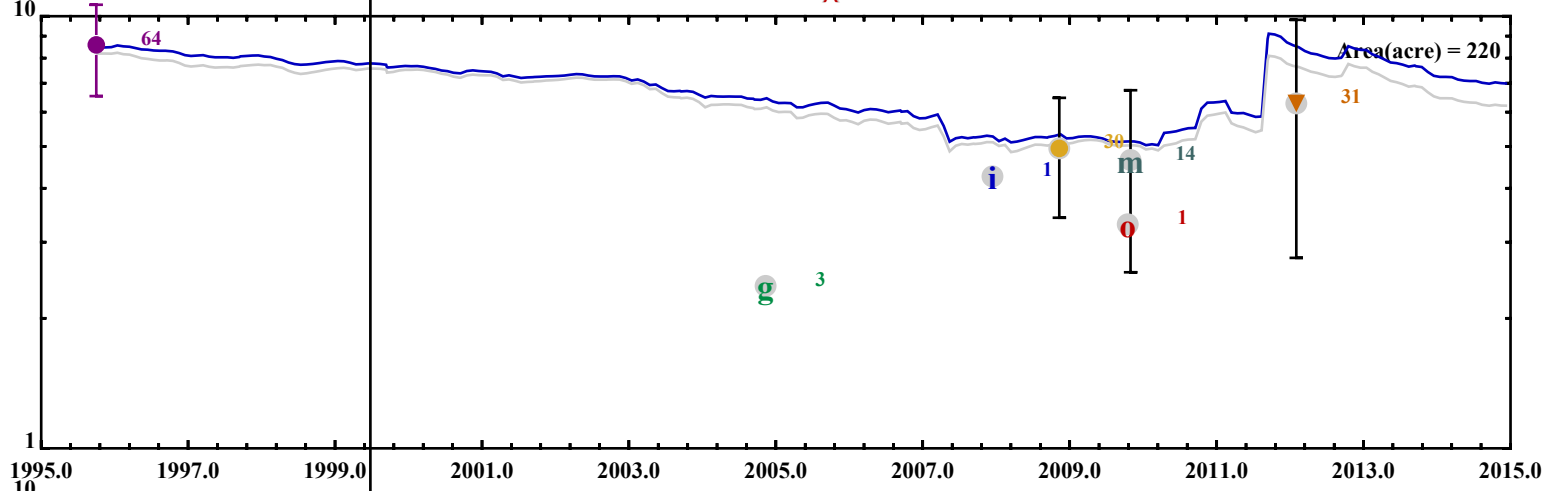
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

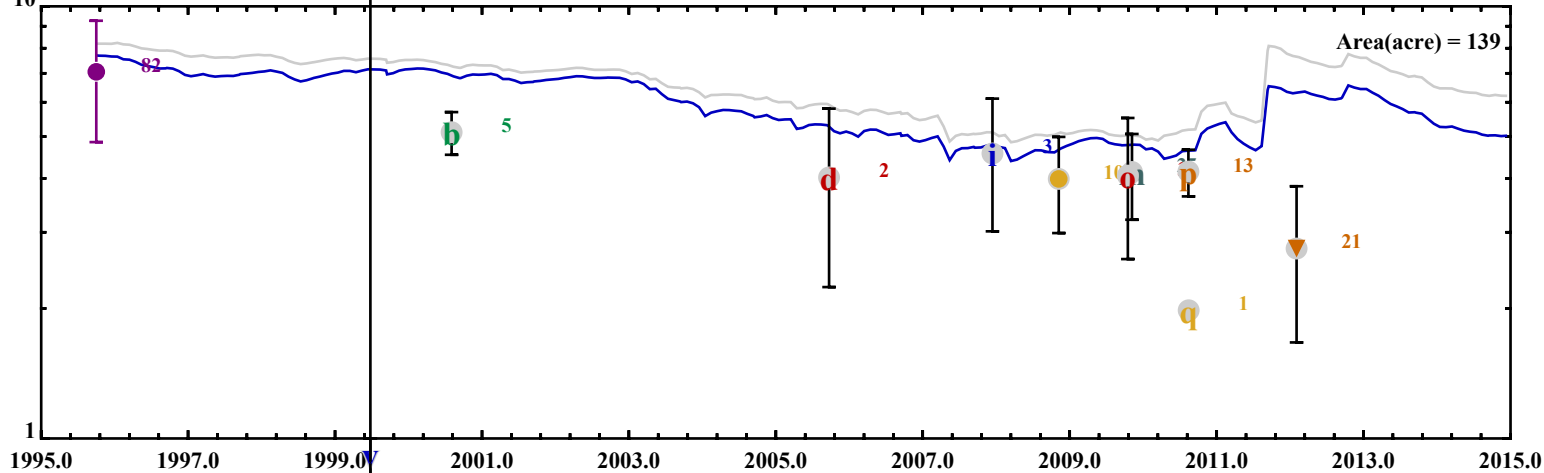
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

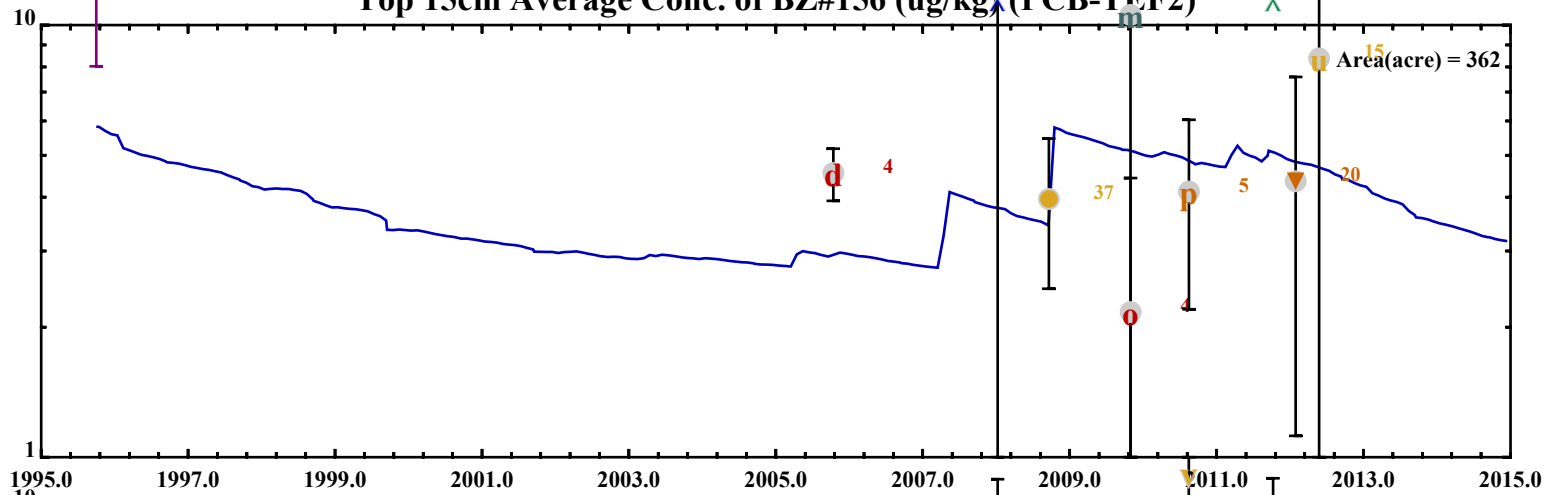


Time (Years)

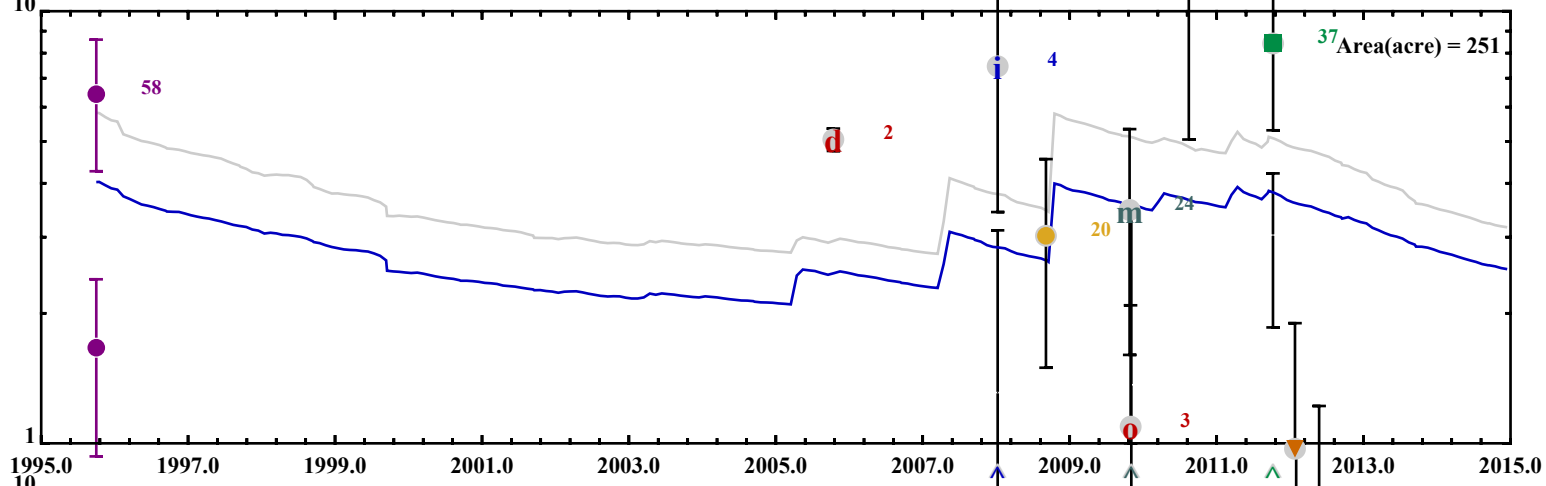
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

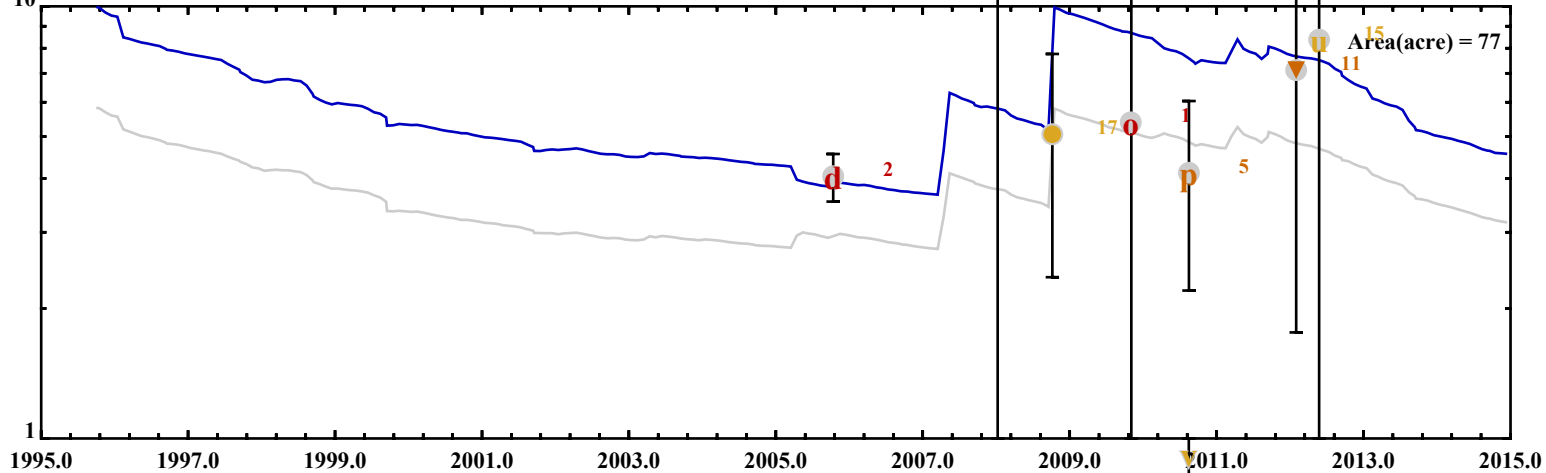
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

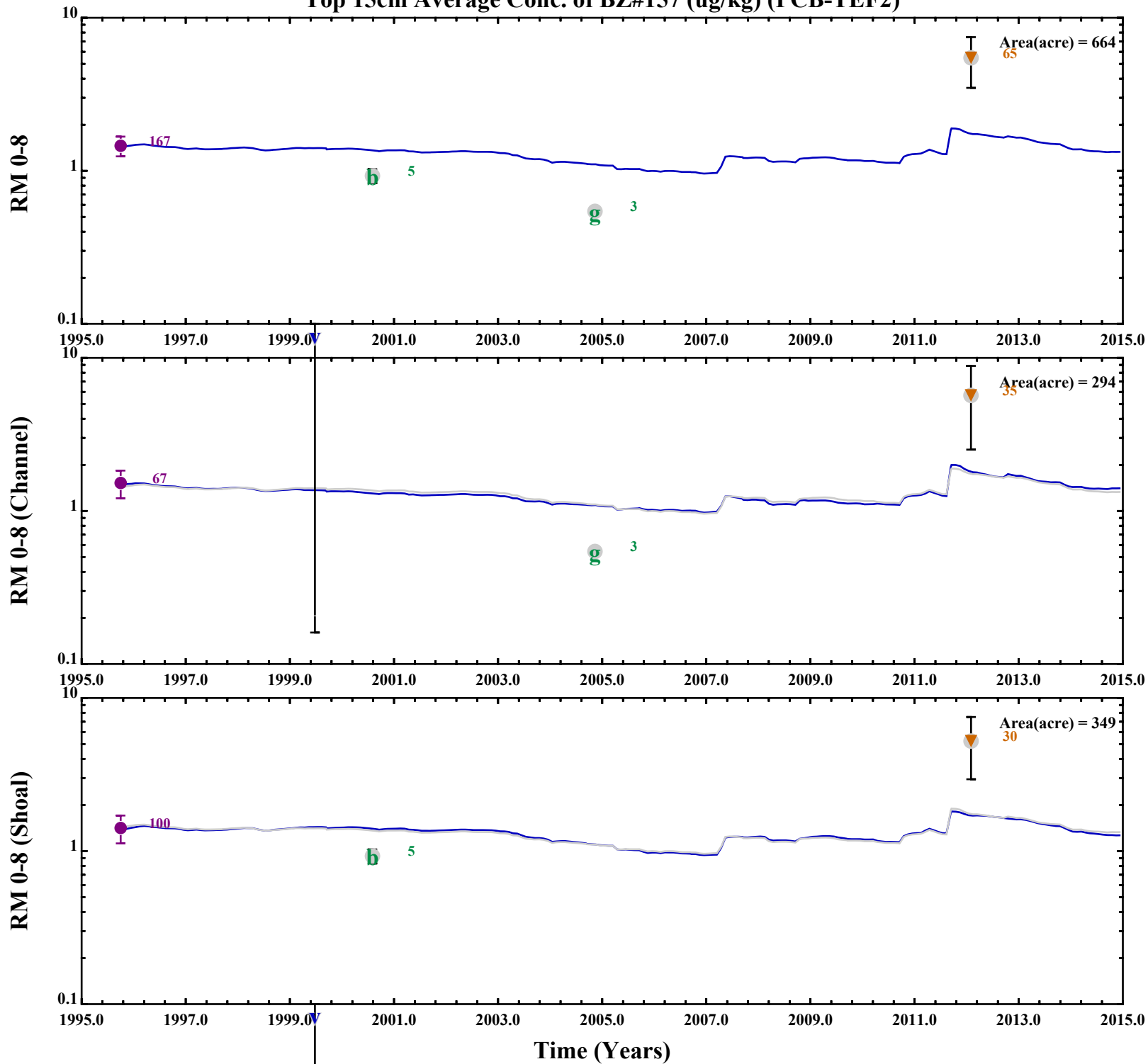


Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

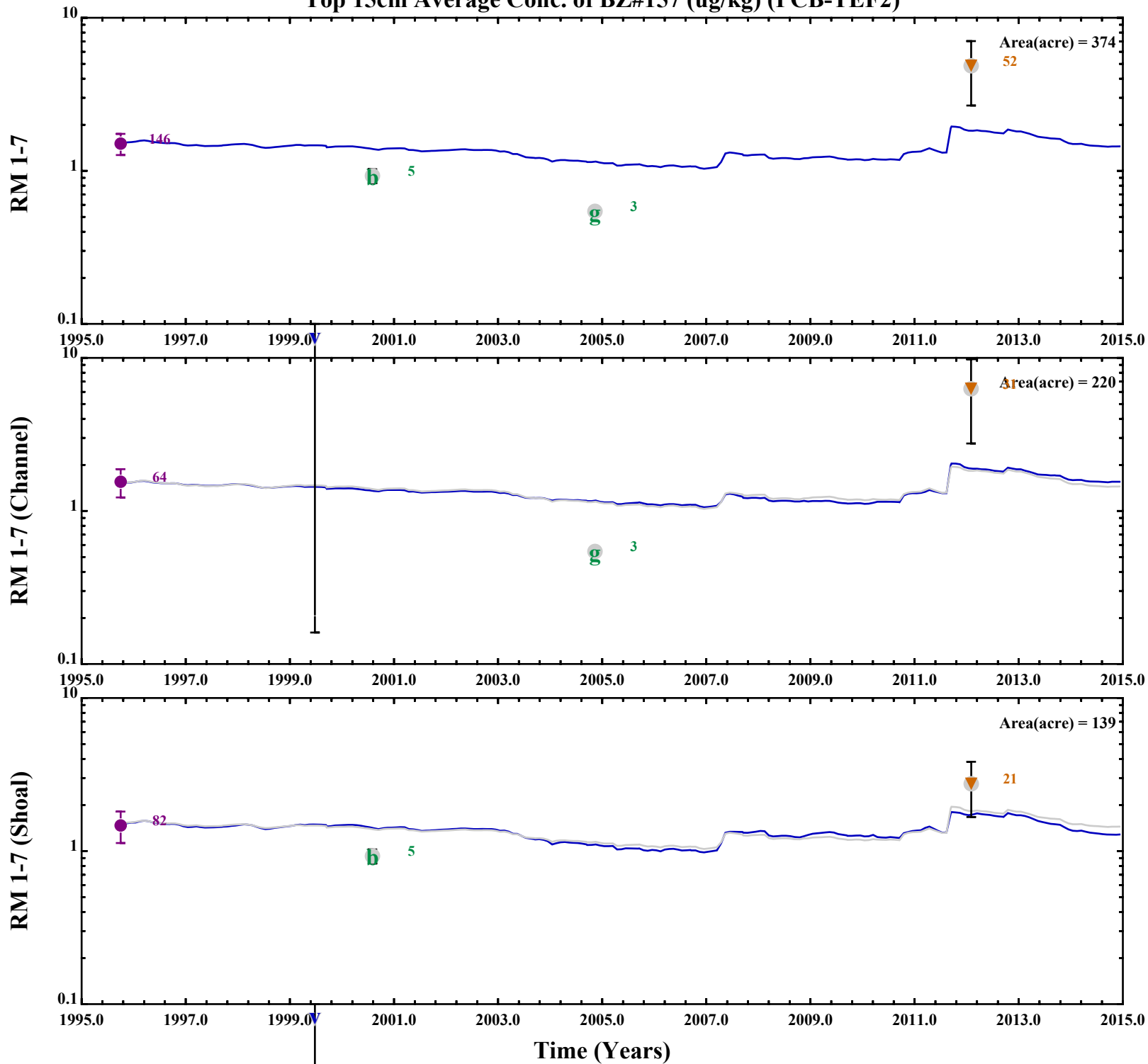


# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

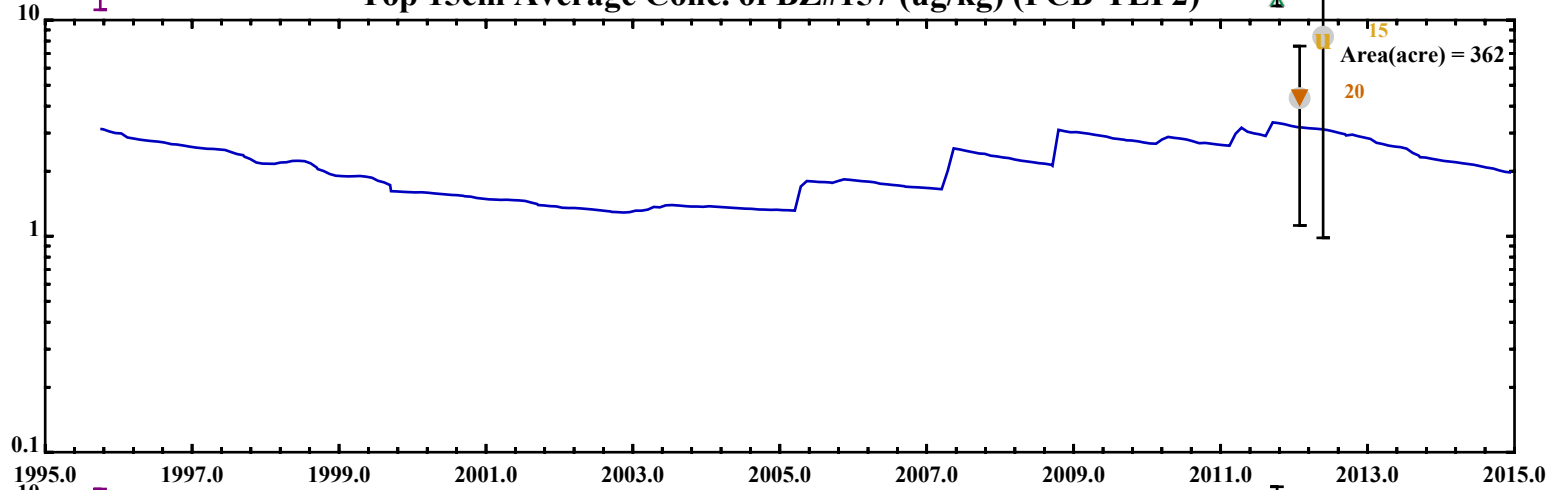
# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



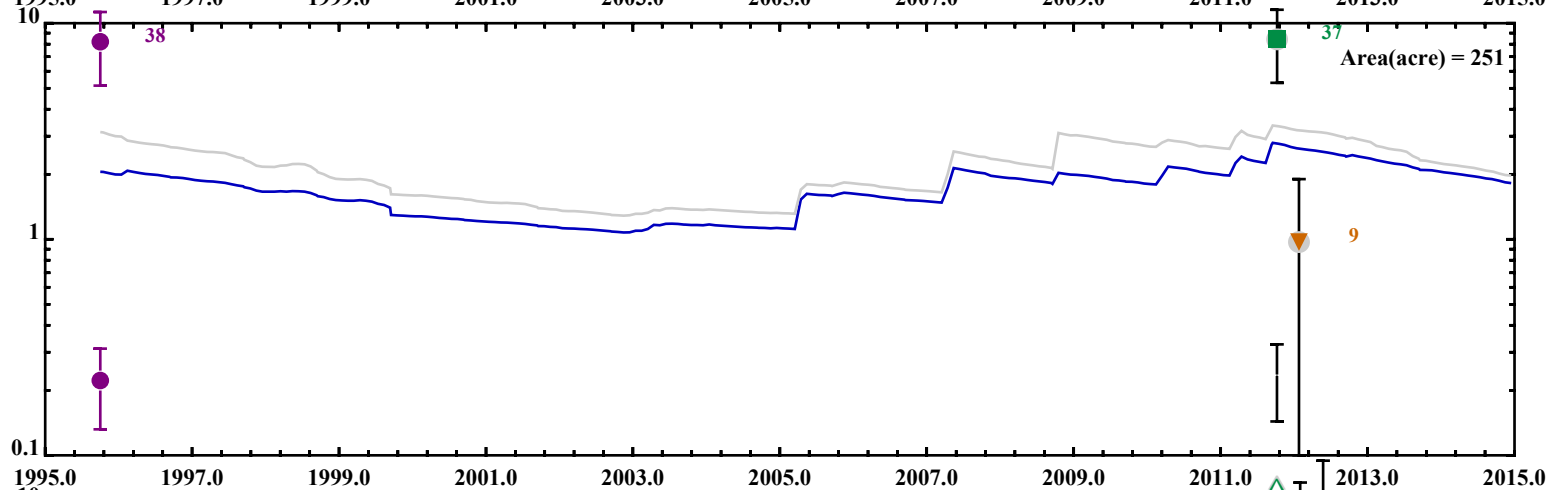
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

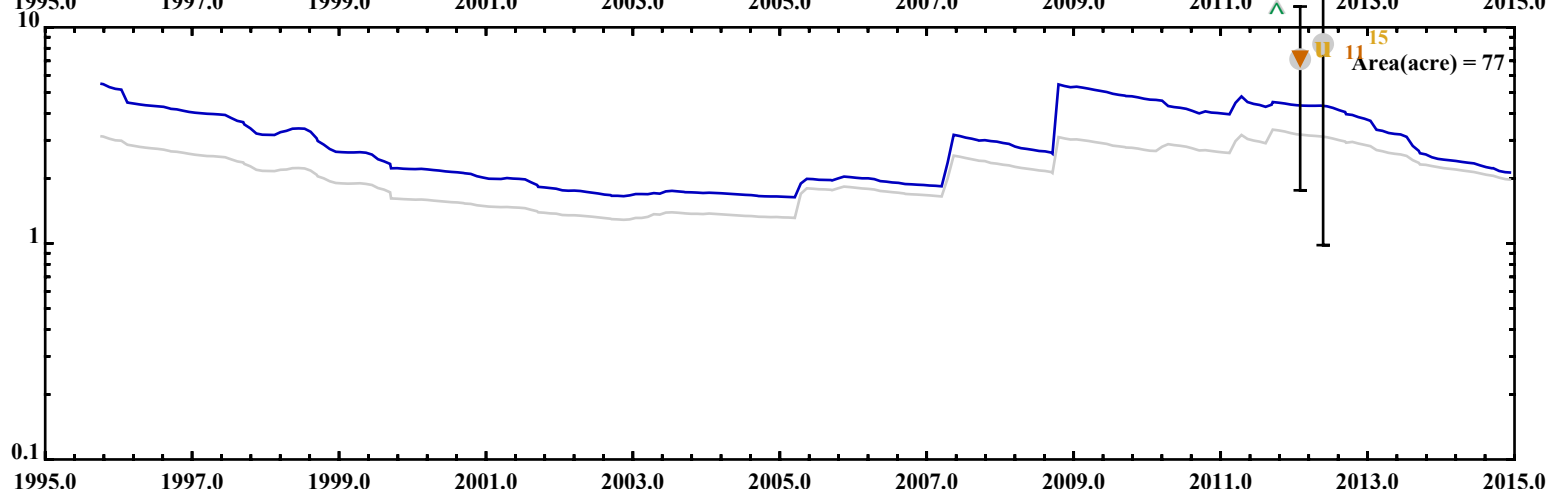
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

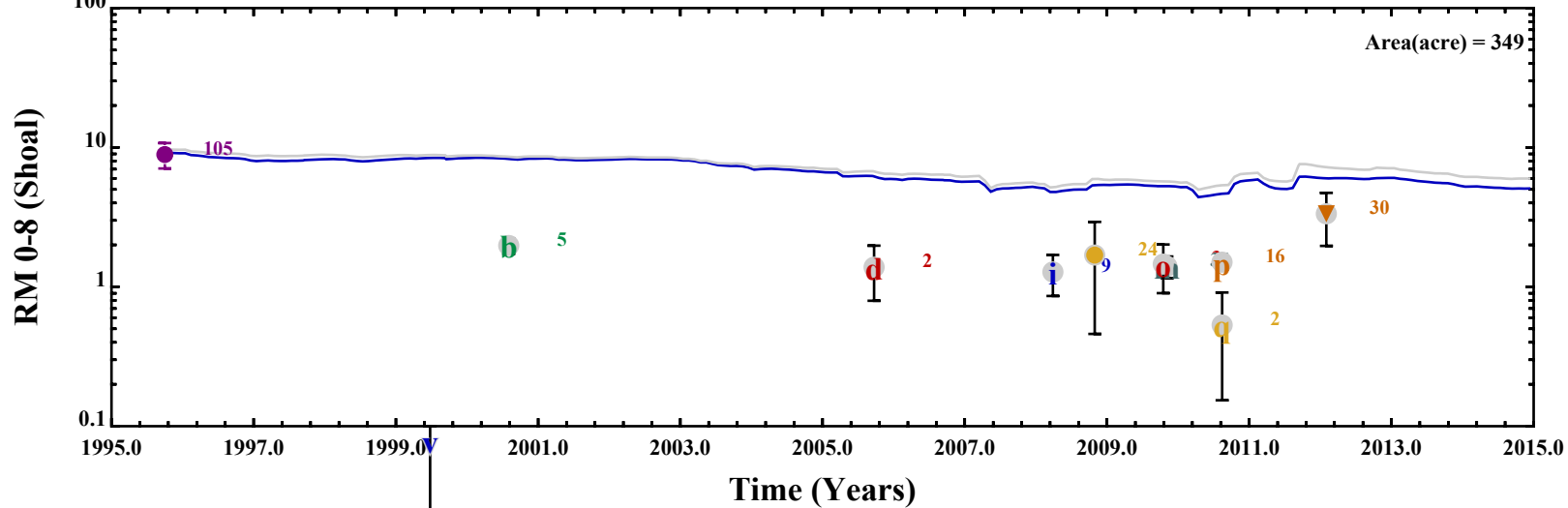
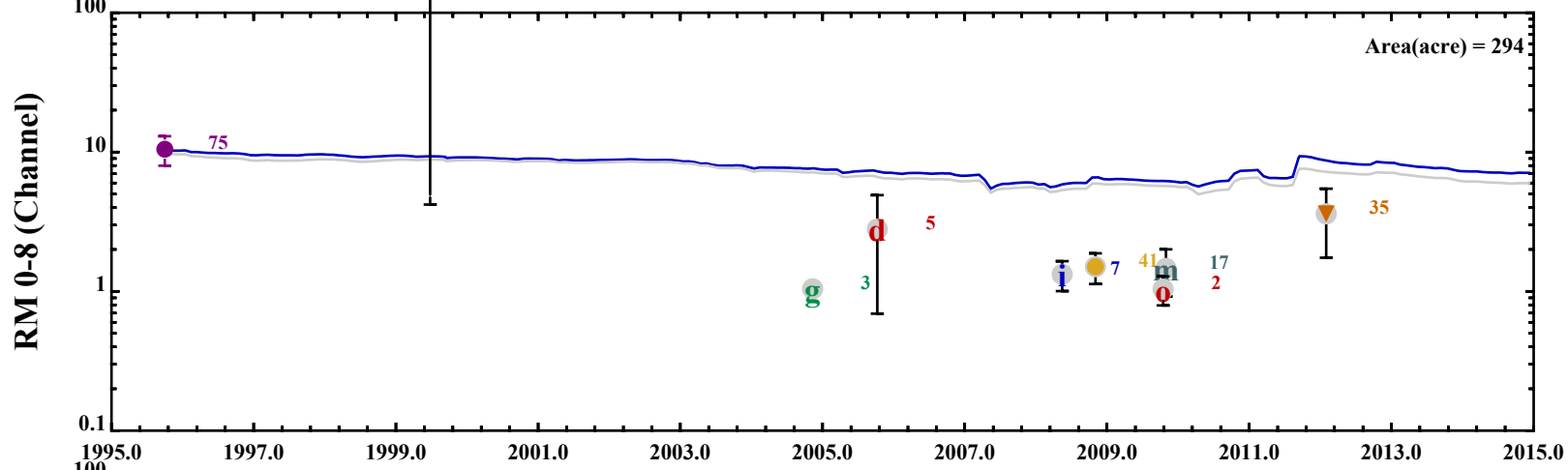
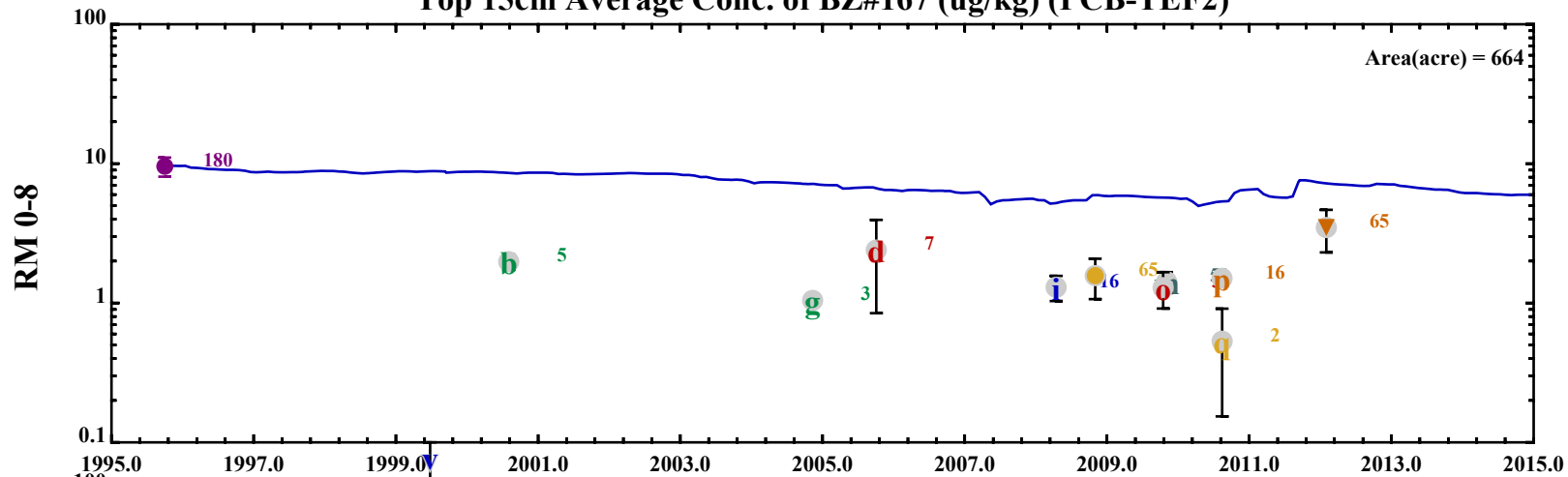


Time (Years)

- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- v 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

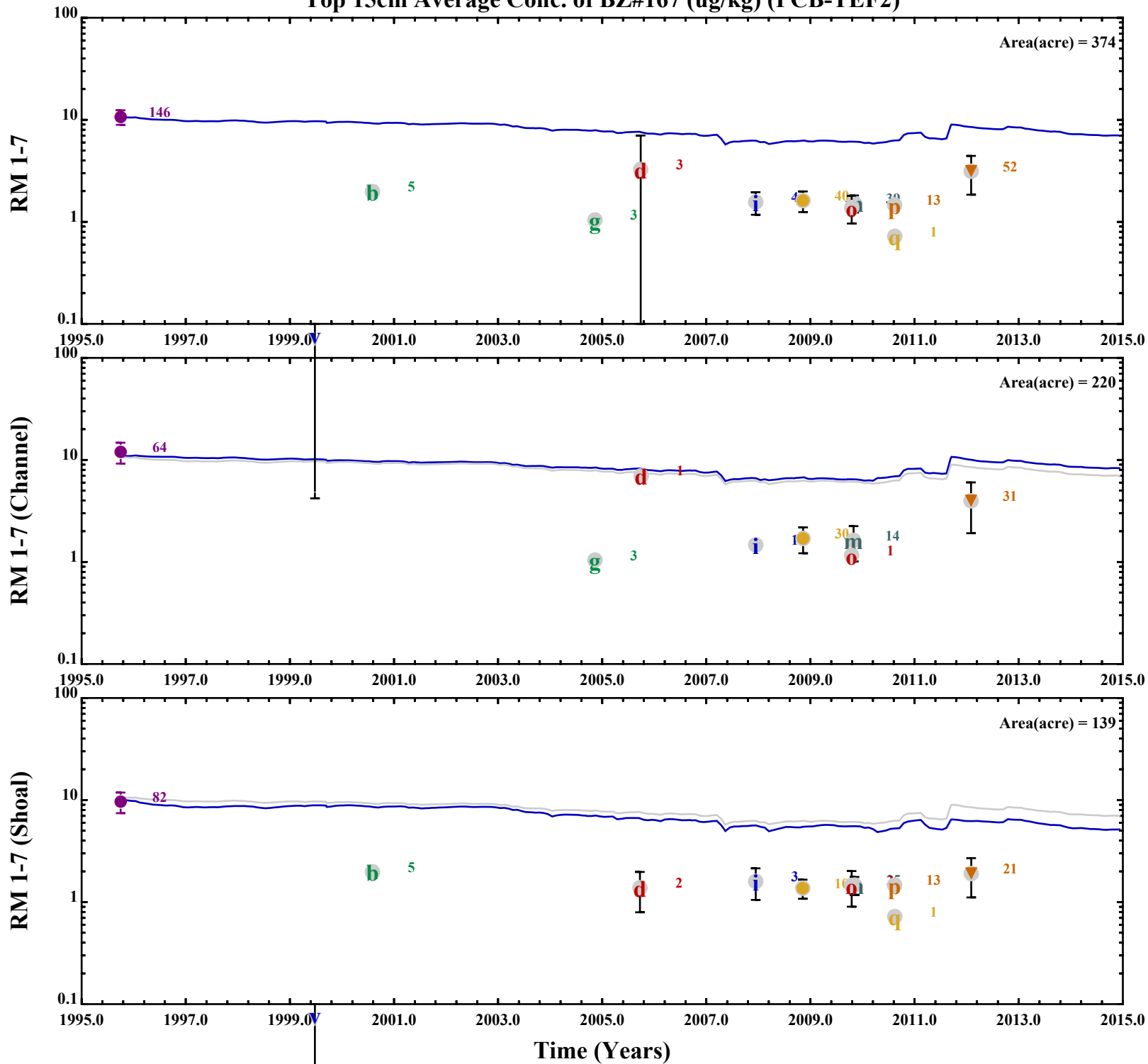
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

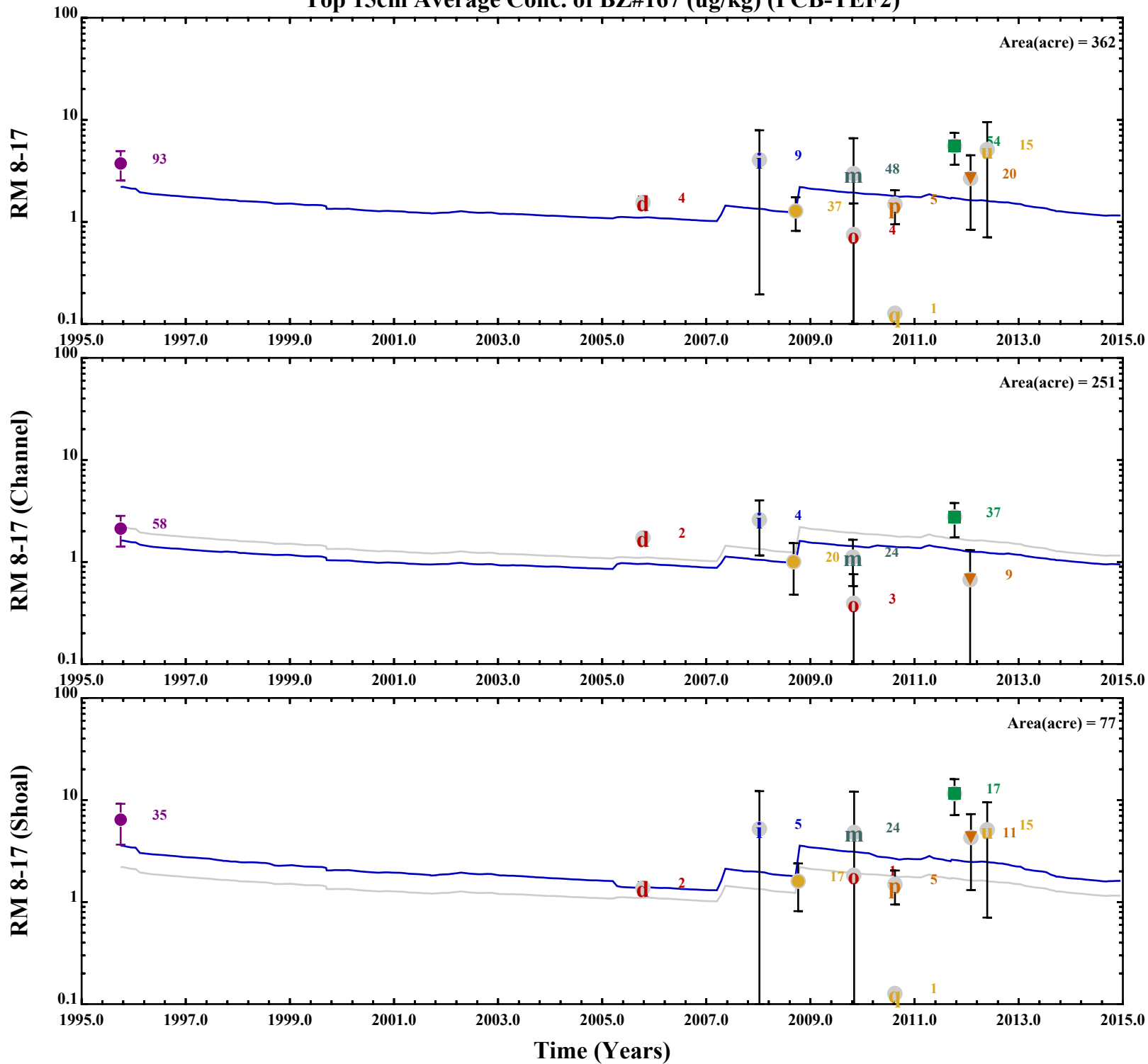
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- ● 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- ■ 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

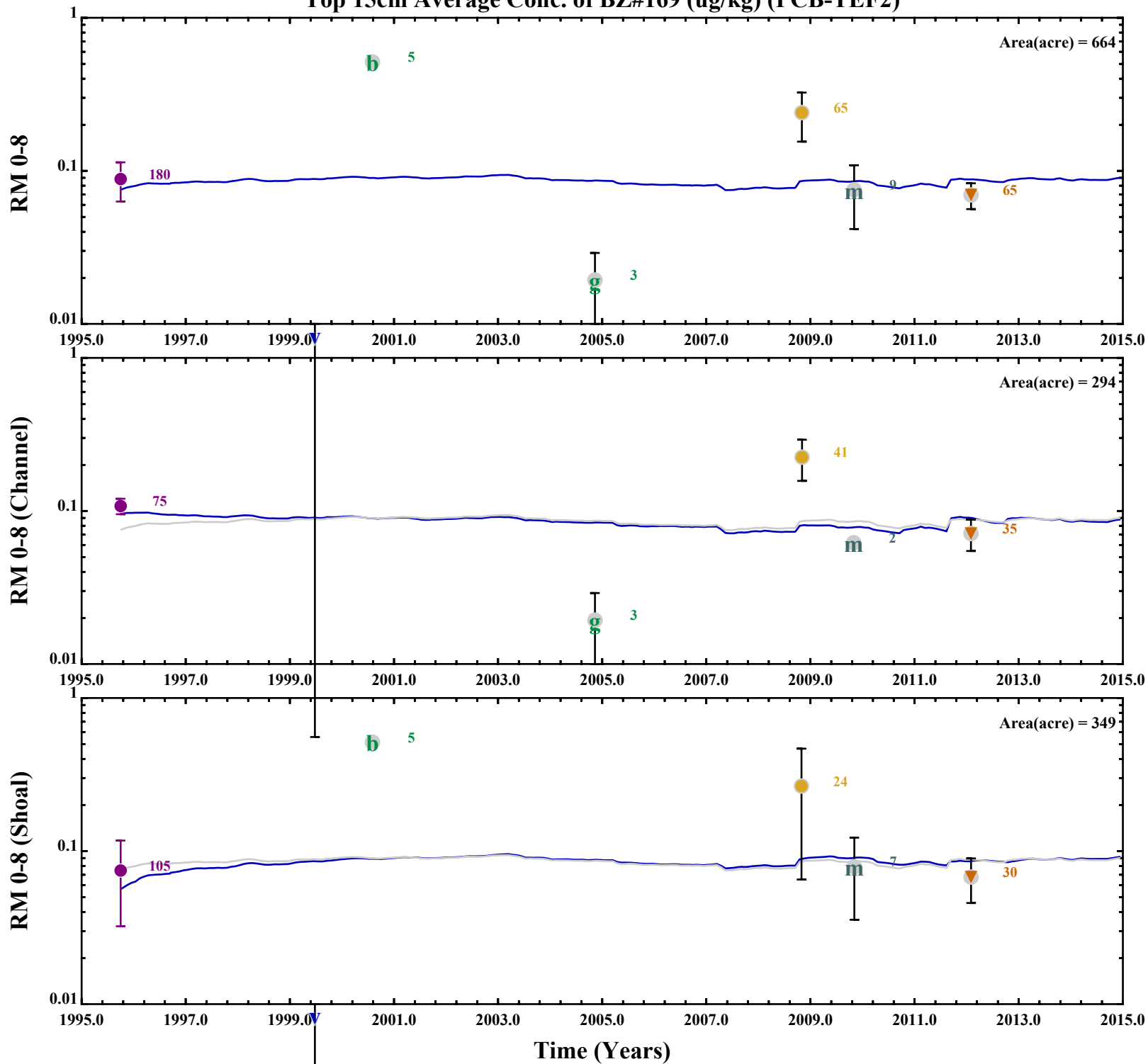
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



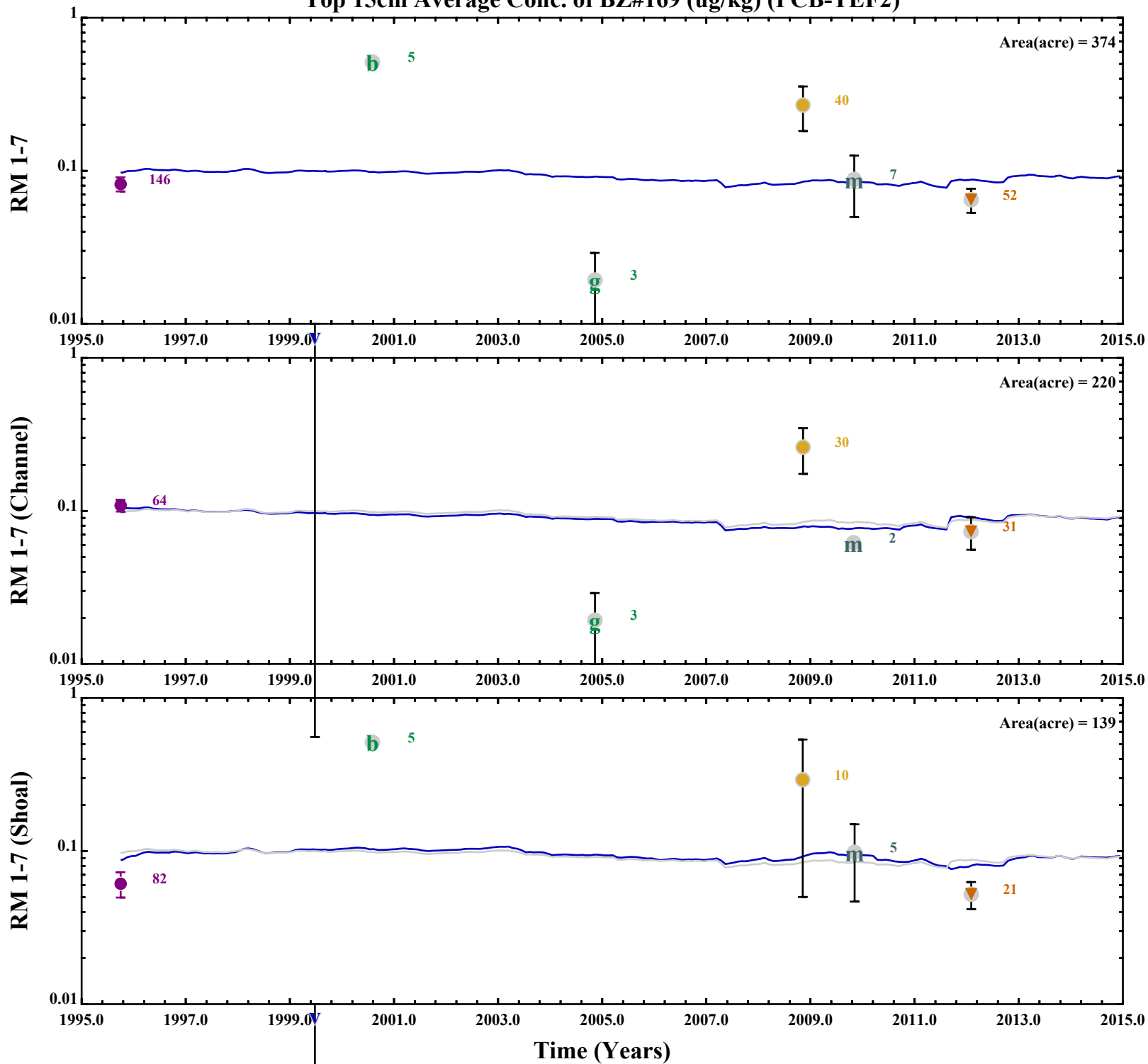
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - ■ 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up (Blue line)
- No Action Gradient IC, Reach Scale Up (Full Reach) (Grey line)

# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up (Blue line)
- No Action Gradient IC, Reach Scale Up (Full Reach) (Grey line)

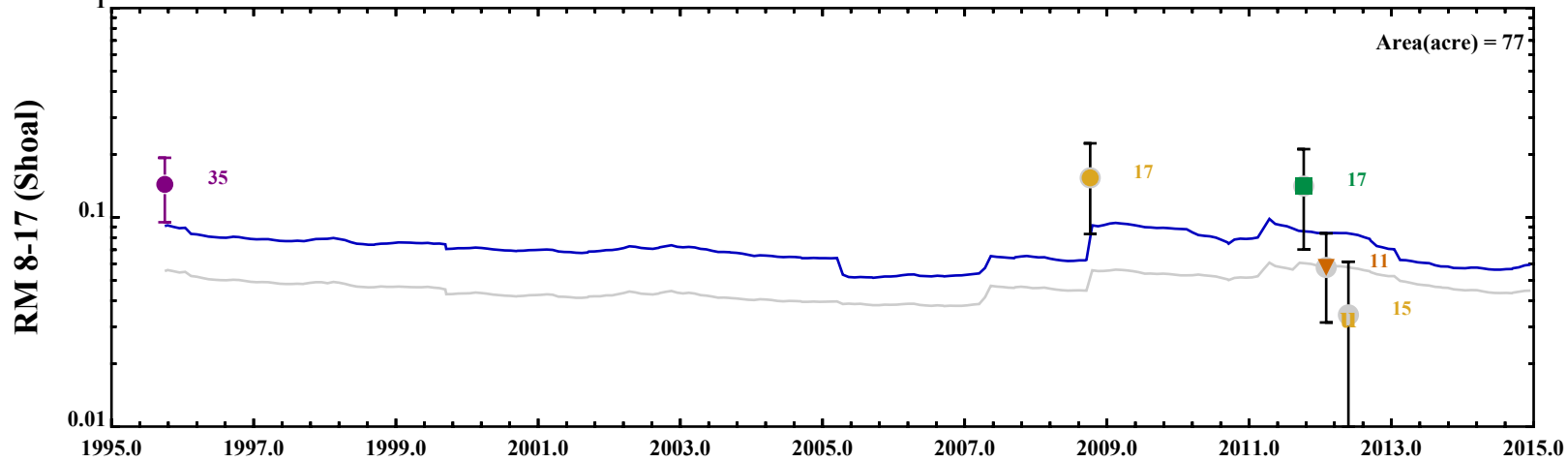
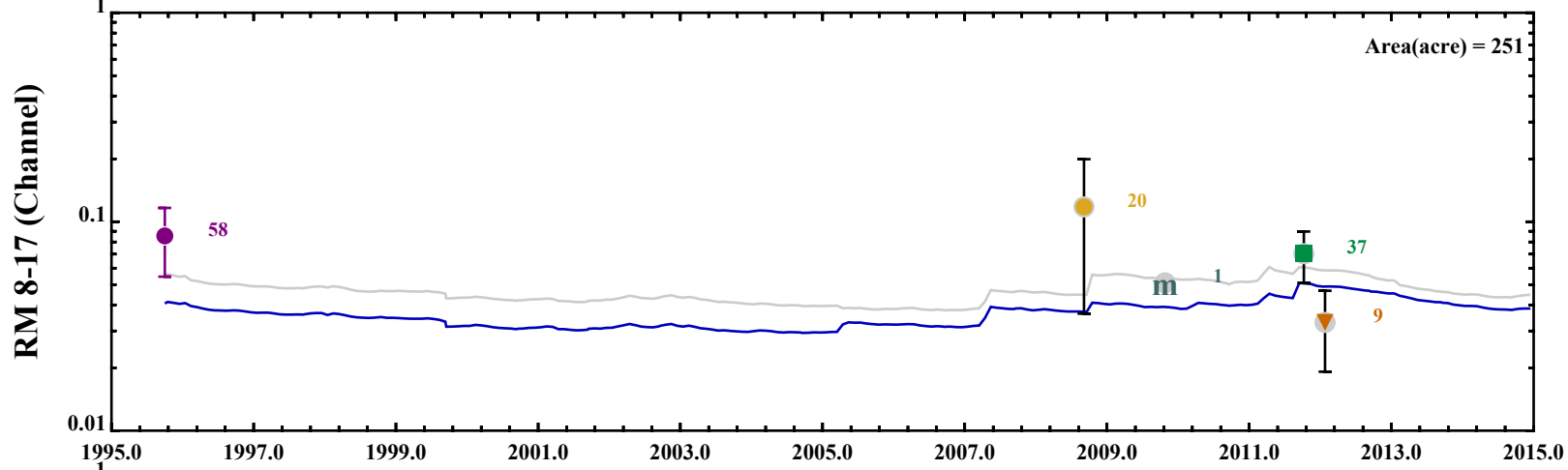
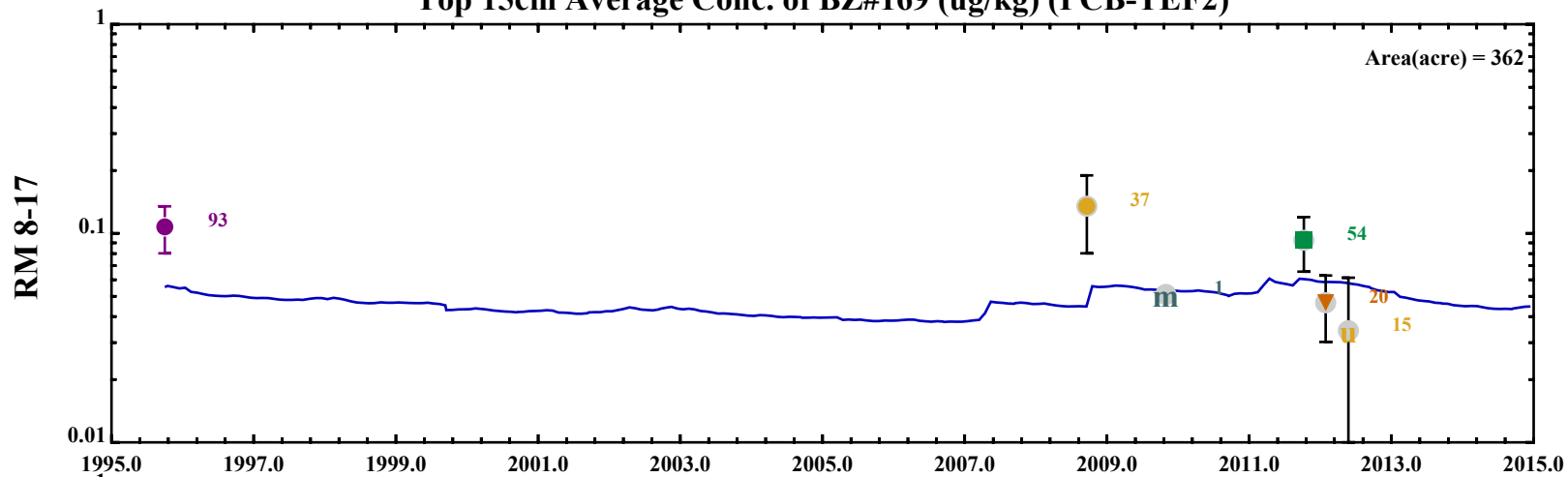
# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



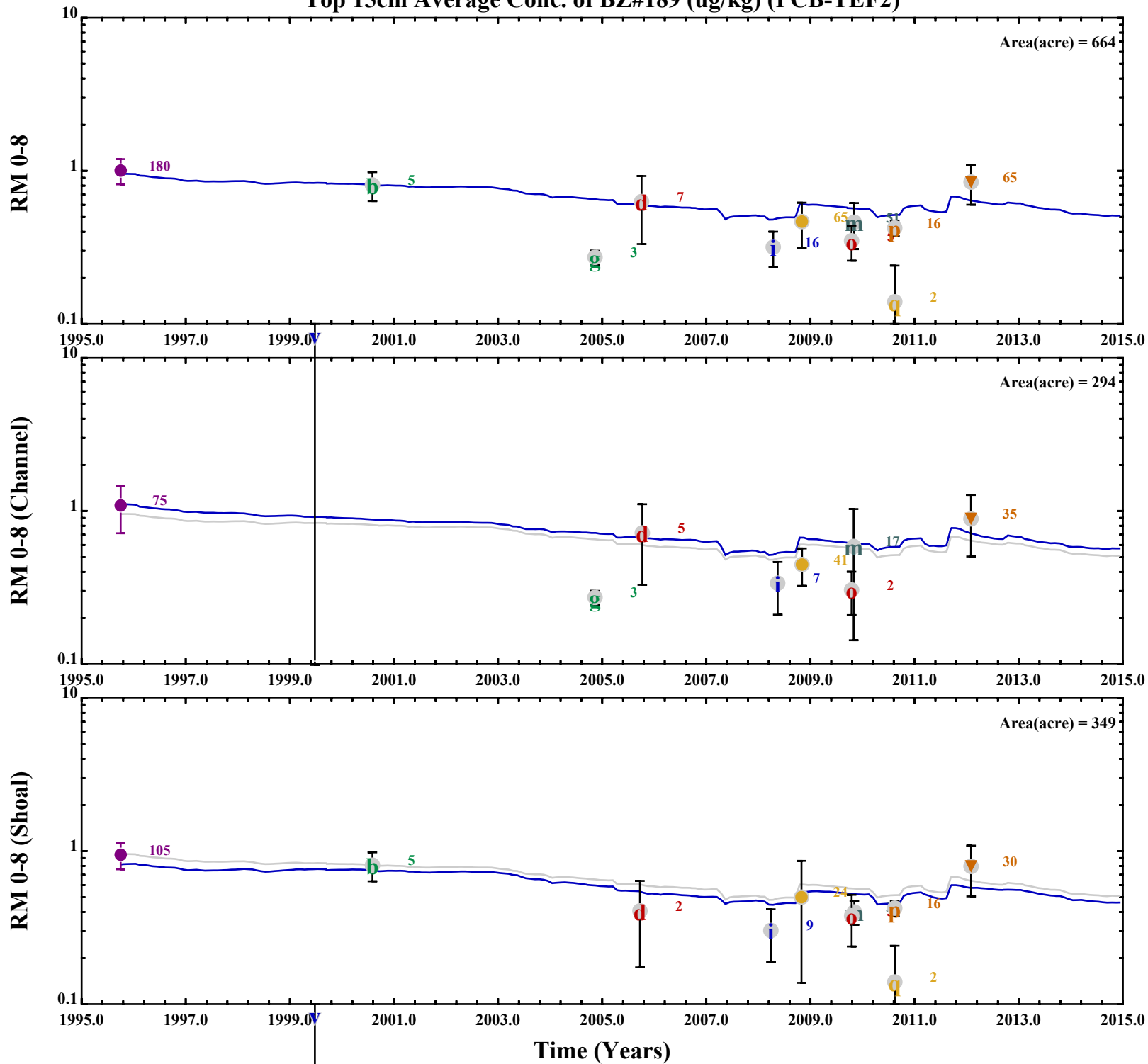
# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

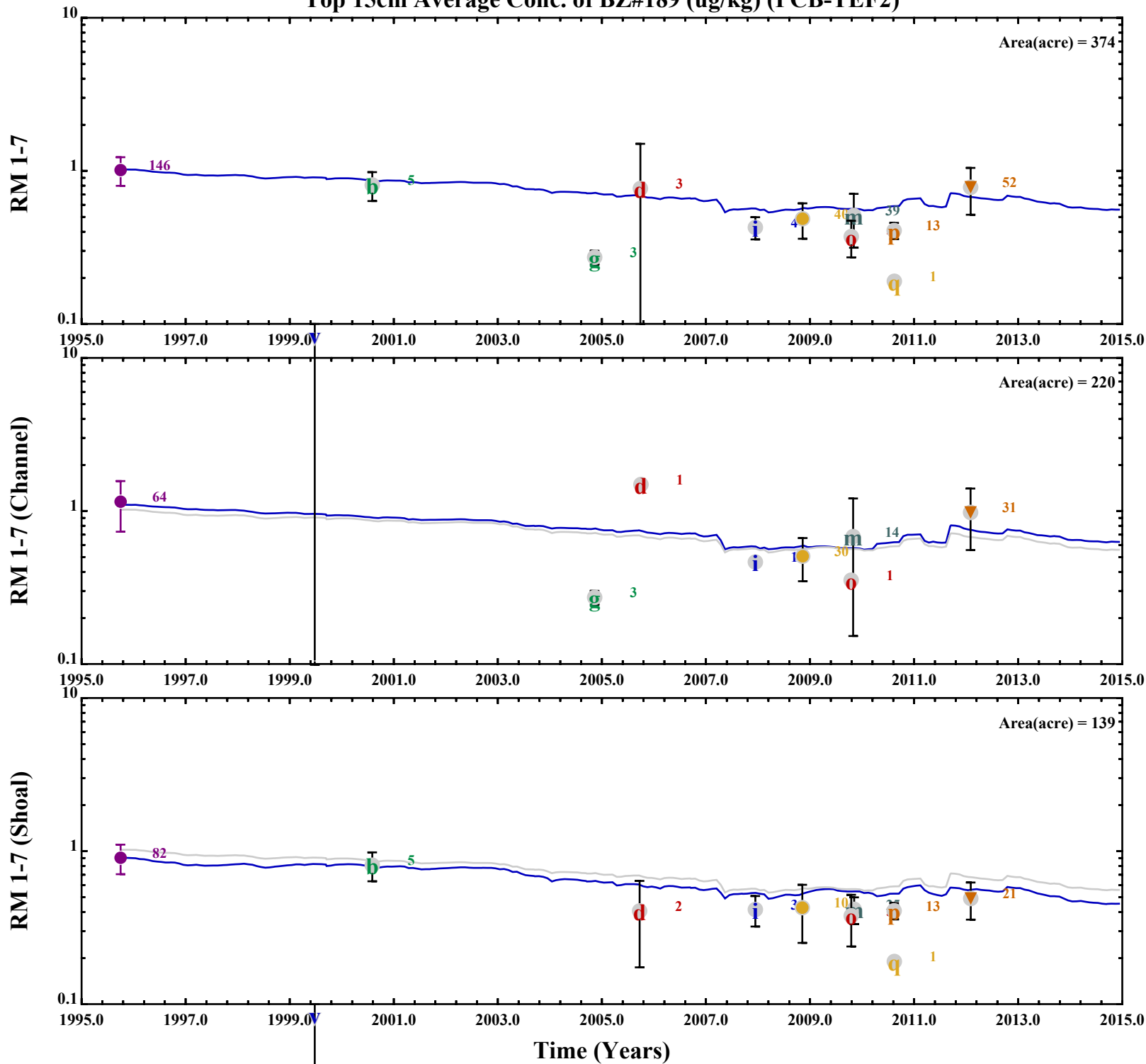
Time (Years)

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2006 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

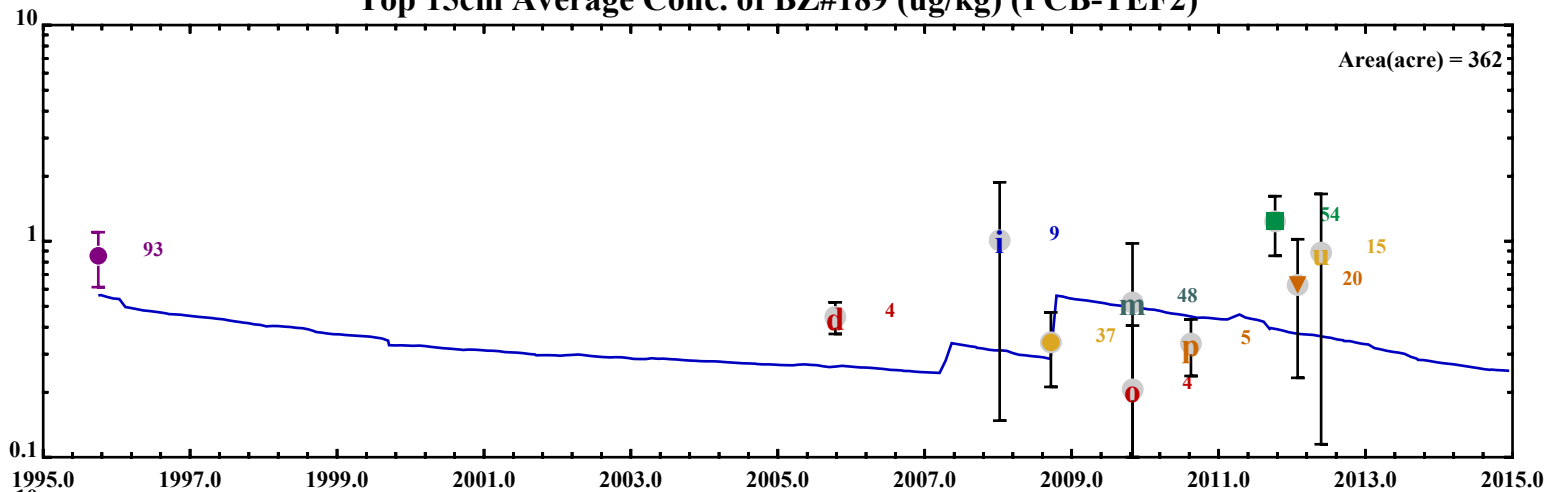
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



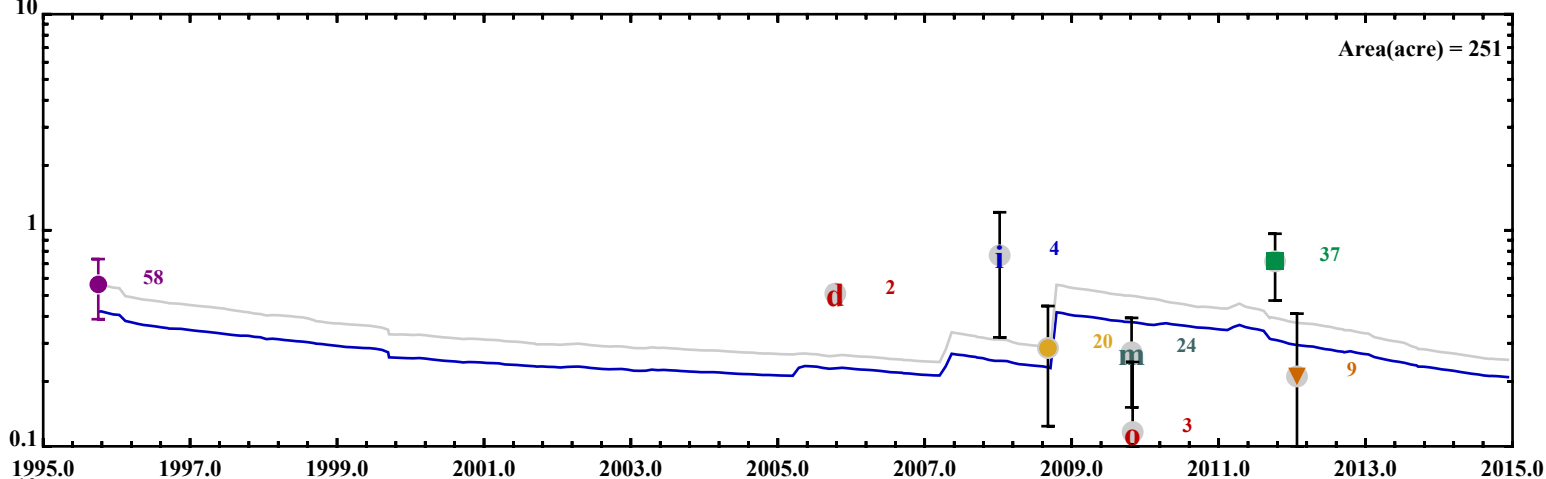
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2006 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)

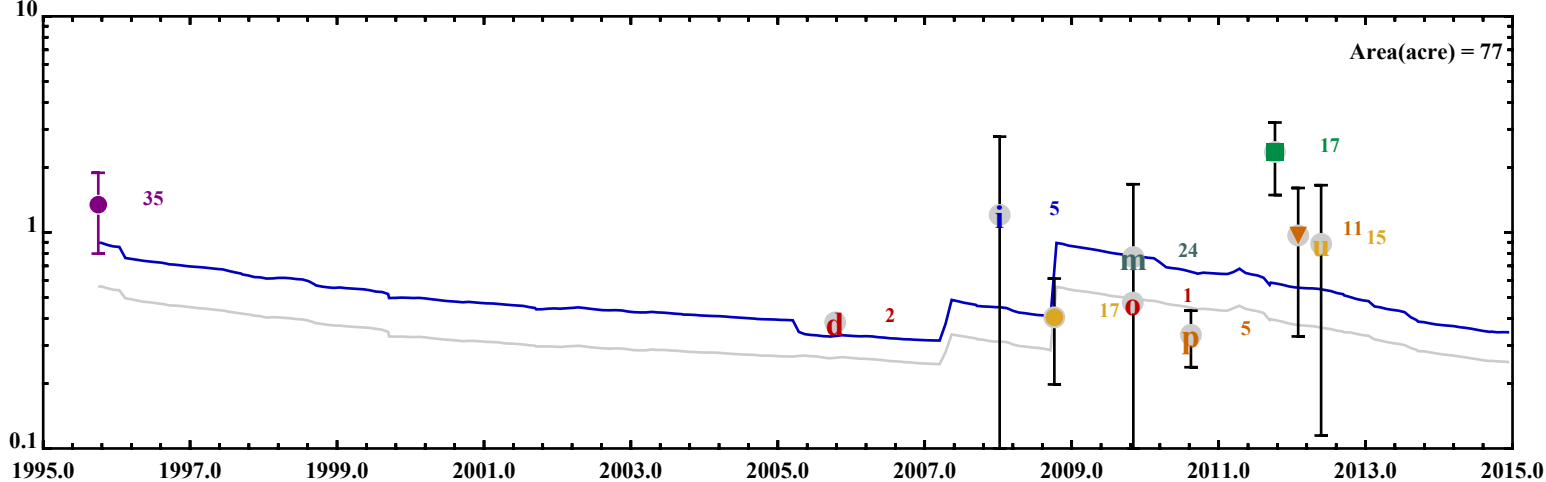
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

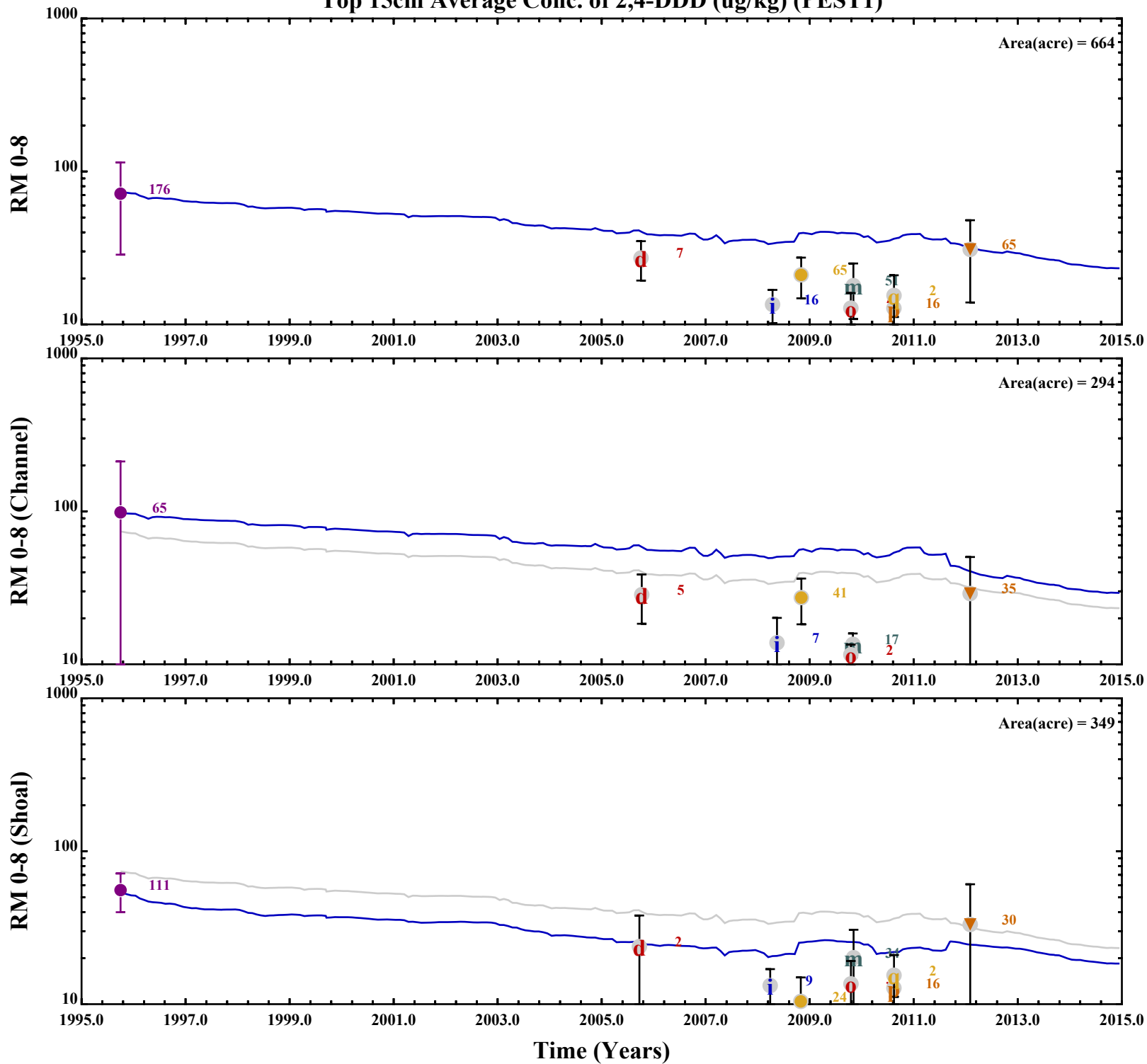


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
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- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- REMAP, 1998
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- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)

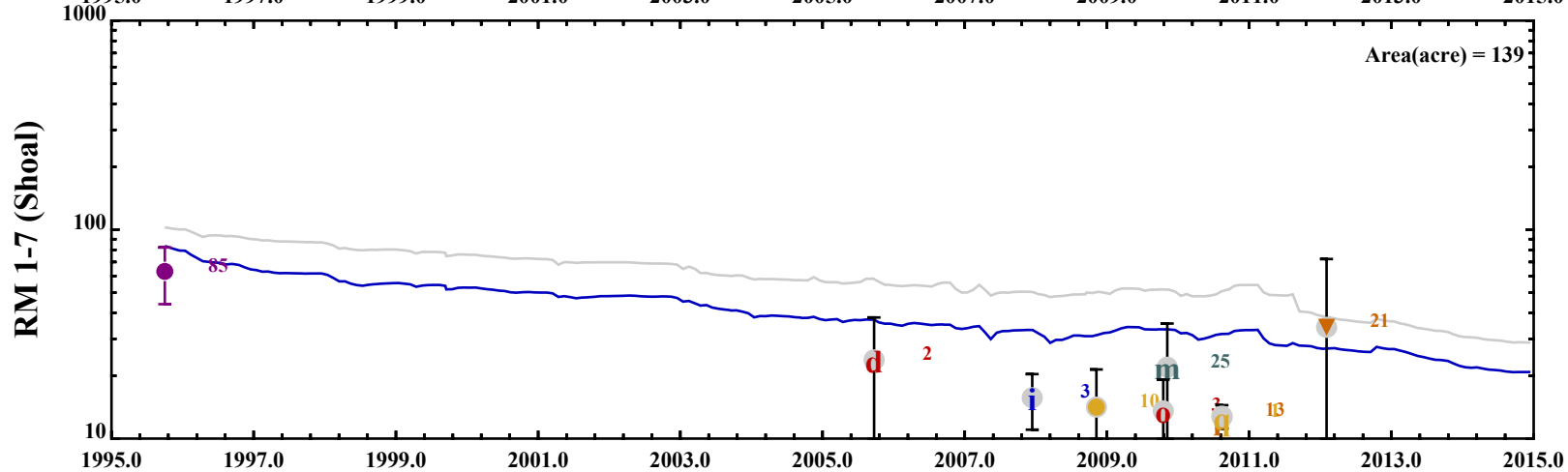
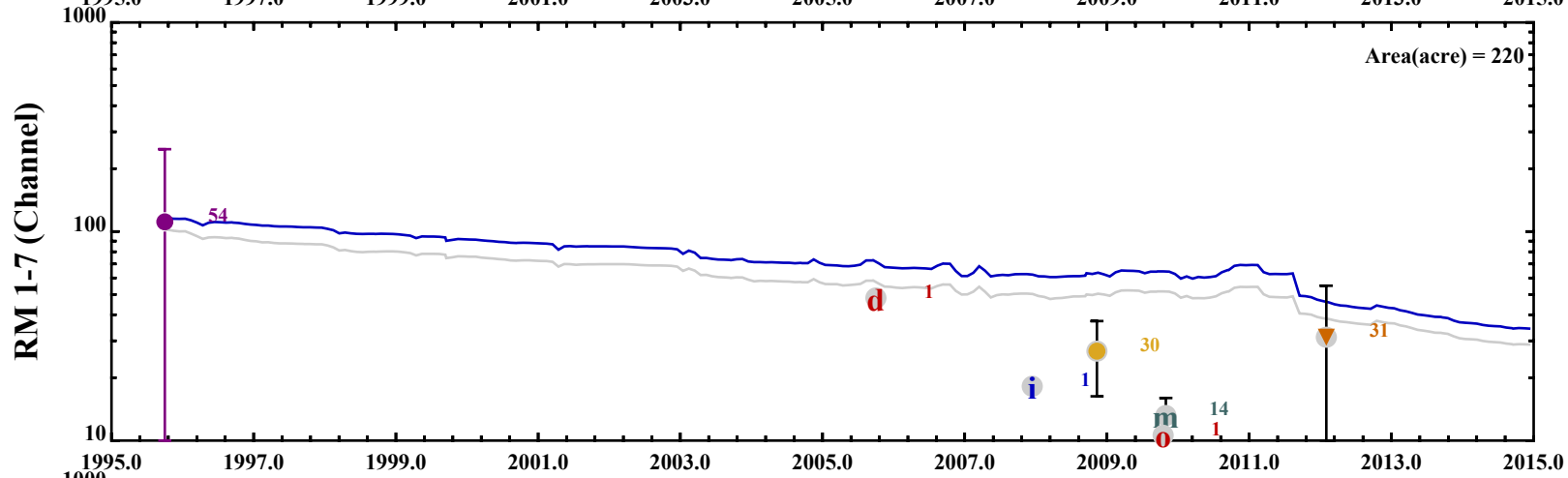
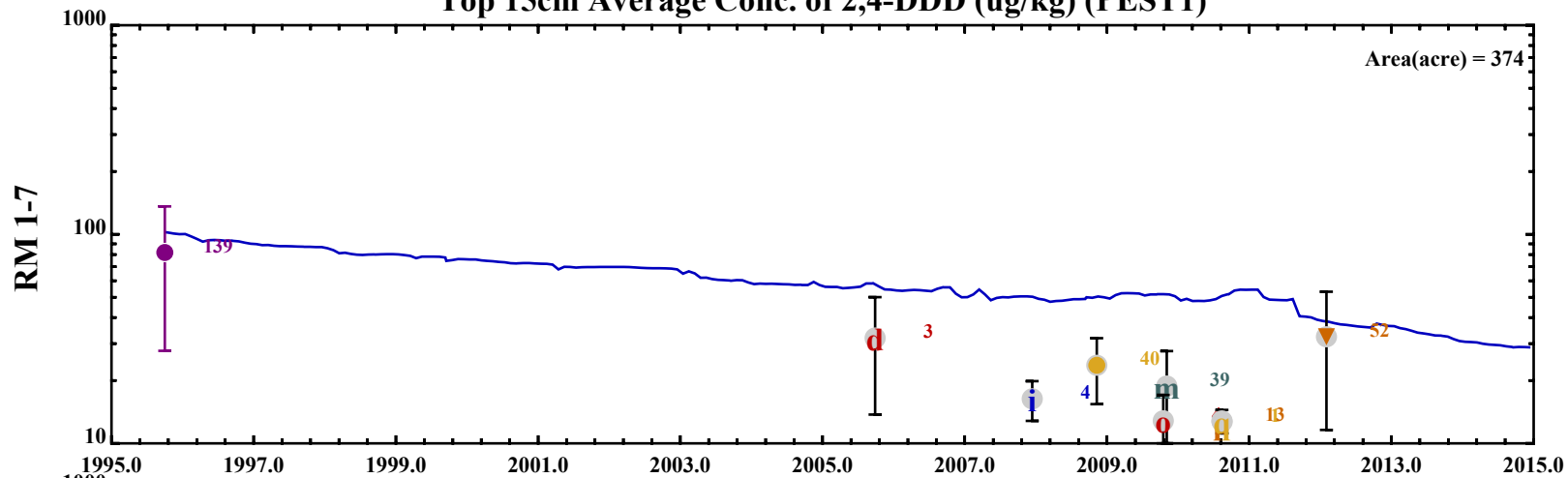


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)

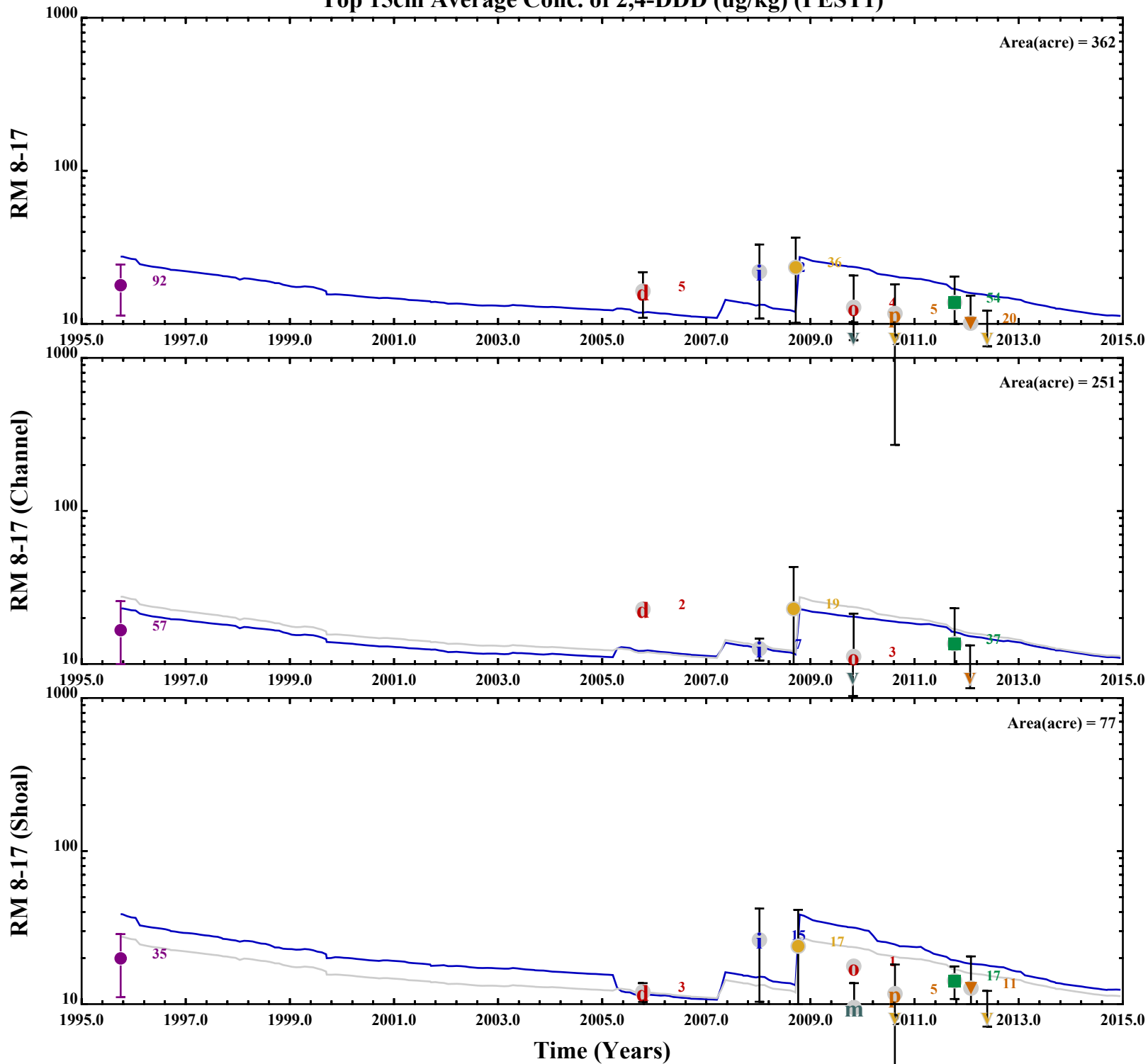


Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation Phase I
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- REMAP, 1993
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- REMAP, 1994
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- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

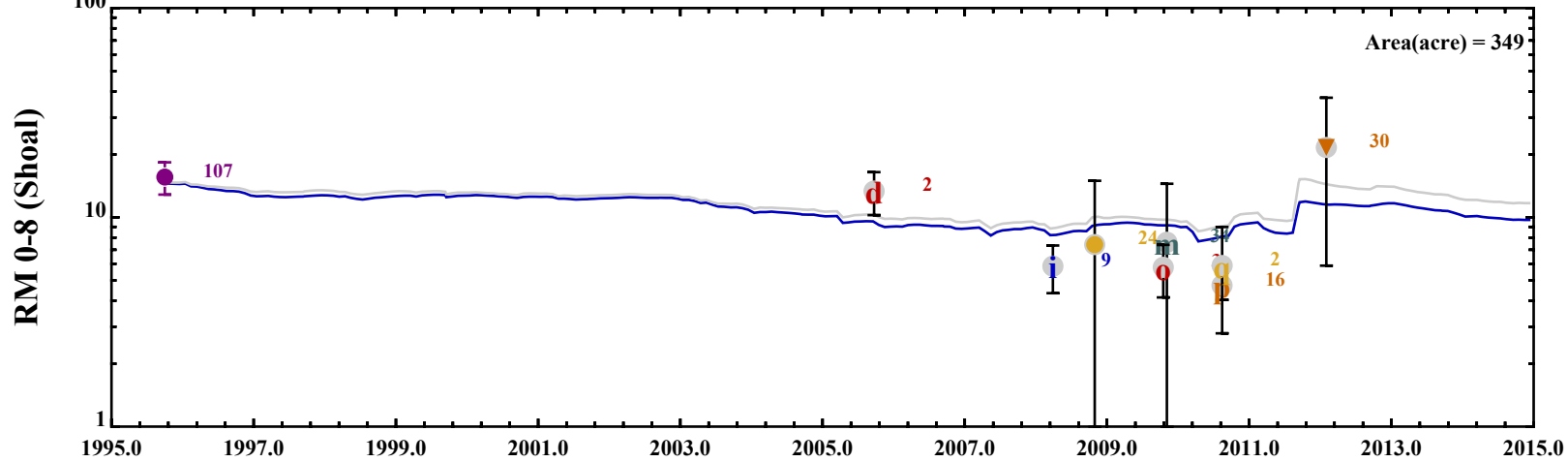
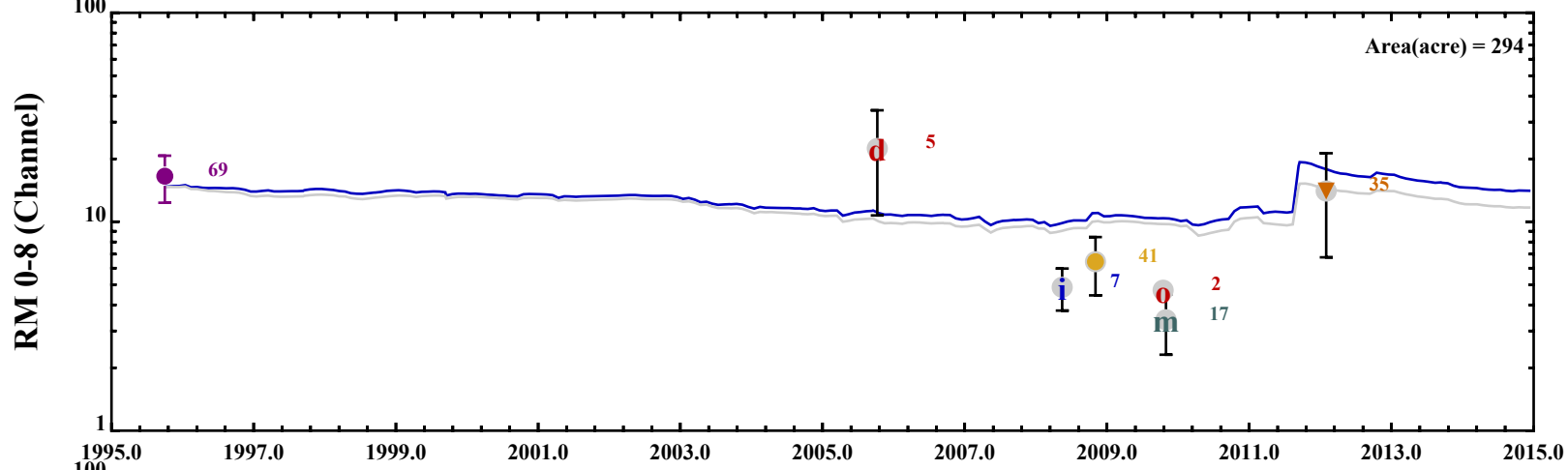
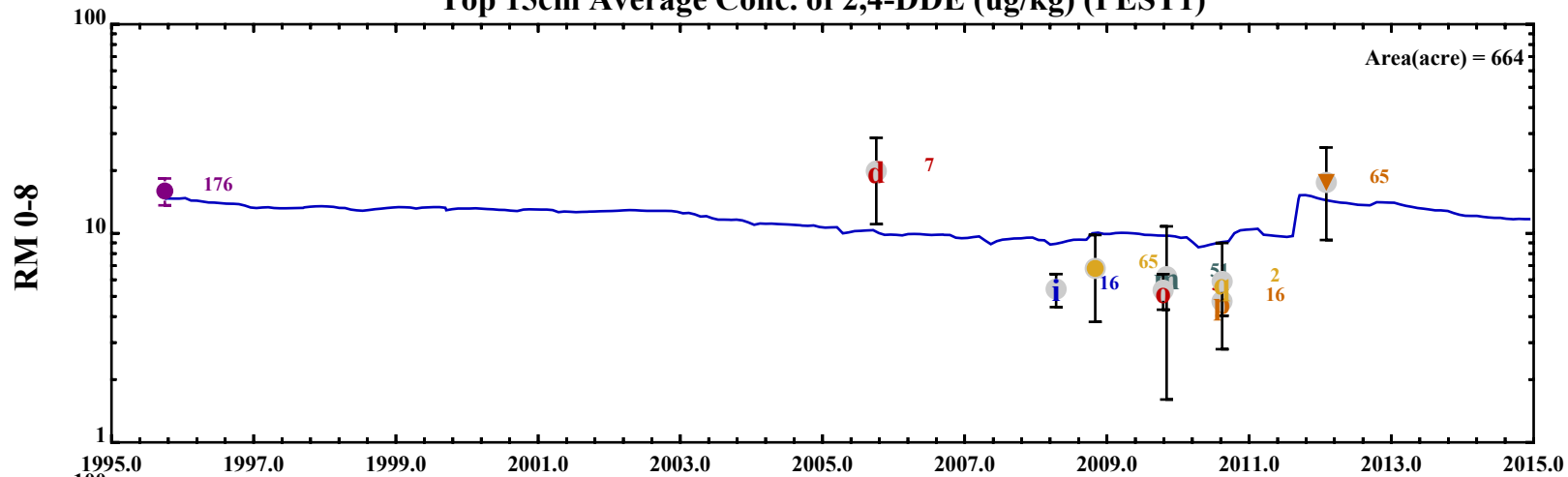
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
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- r 2012 CDMSmith Background Benthic Sediment
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)

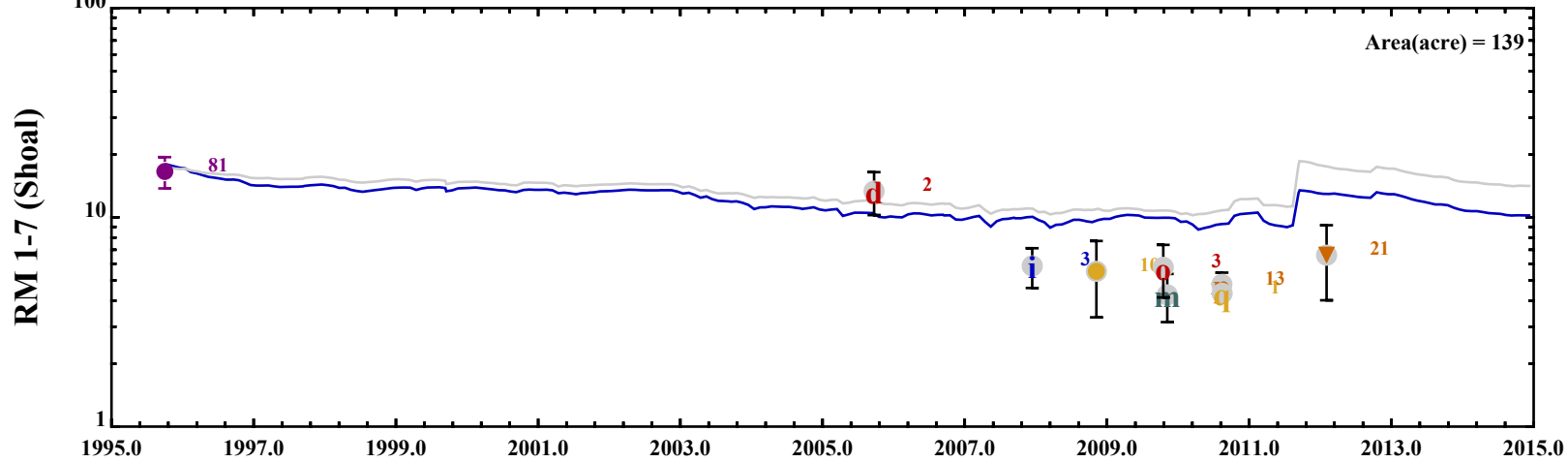
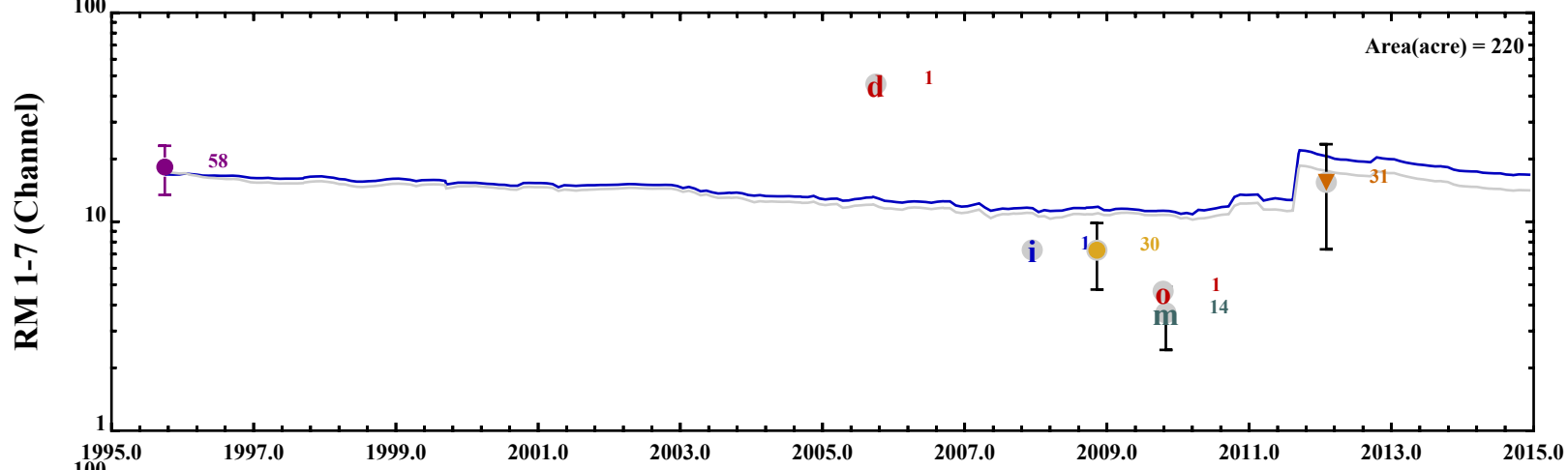
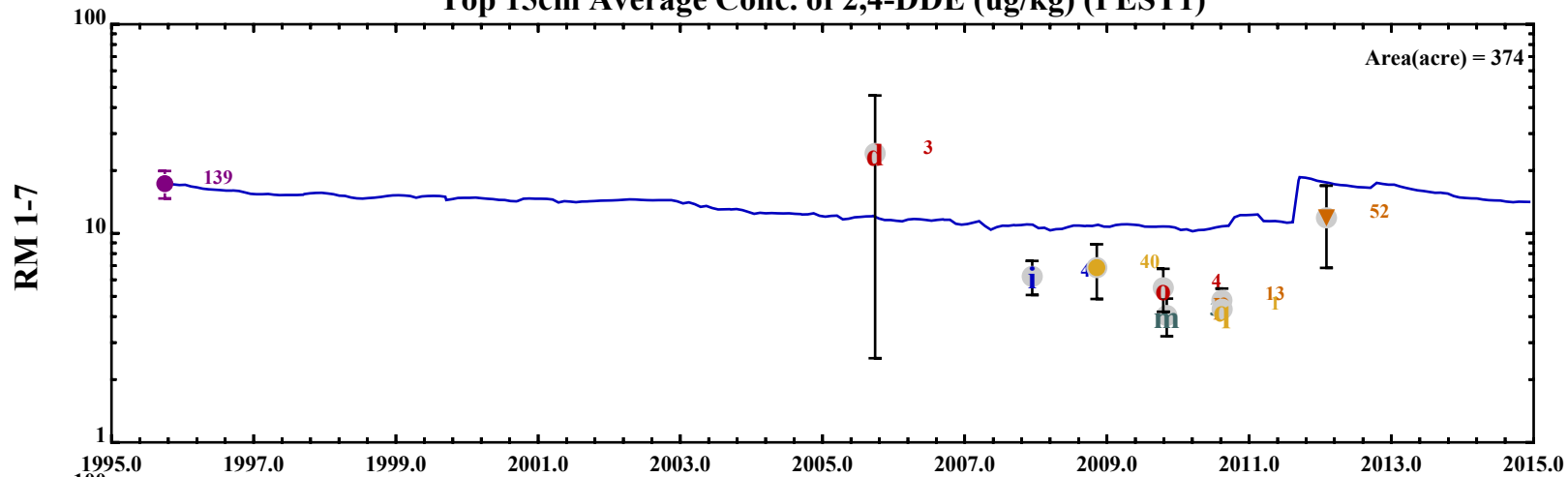


- Data used for ICs
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  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

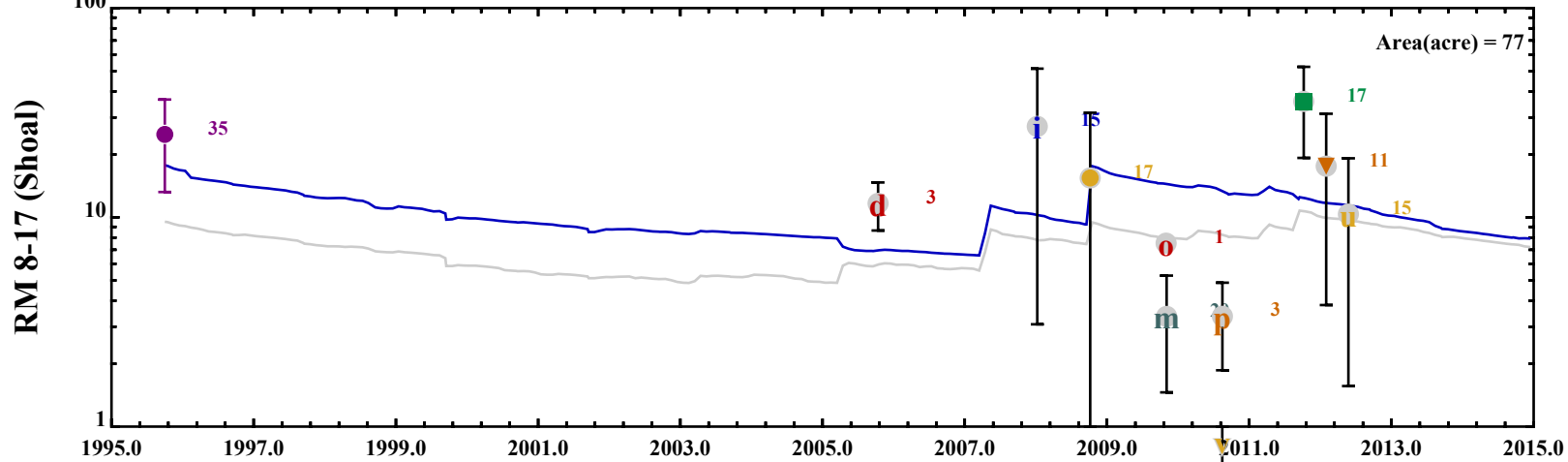
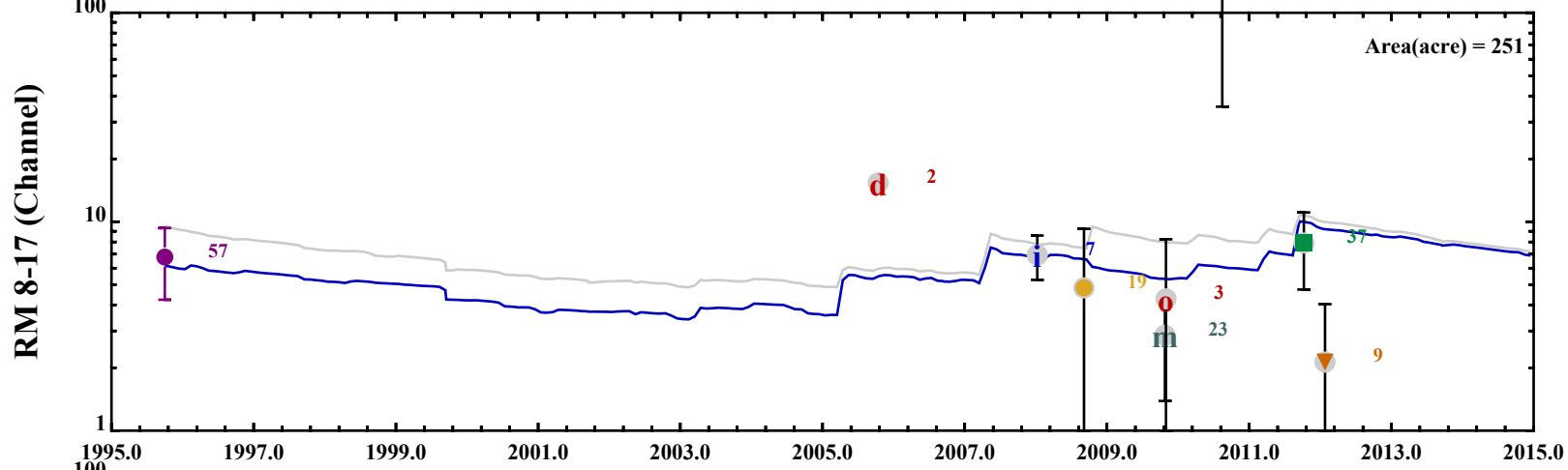
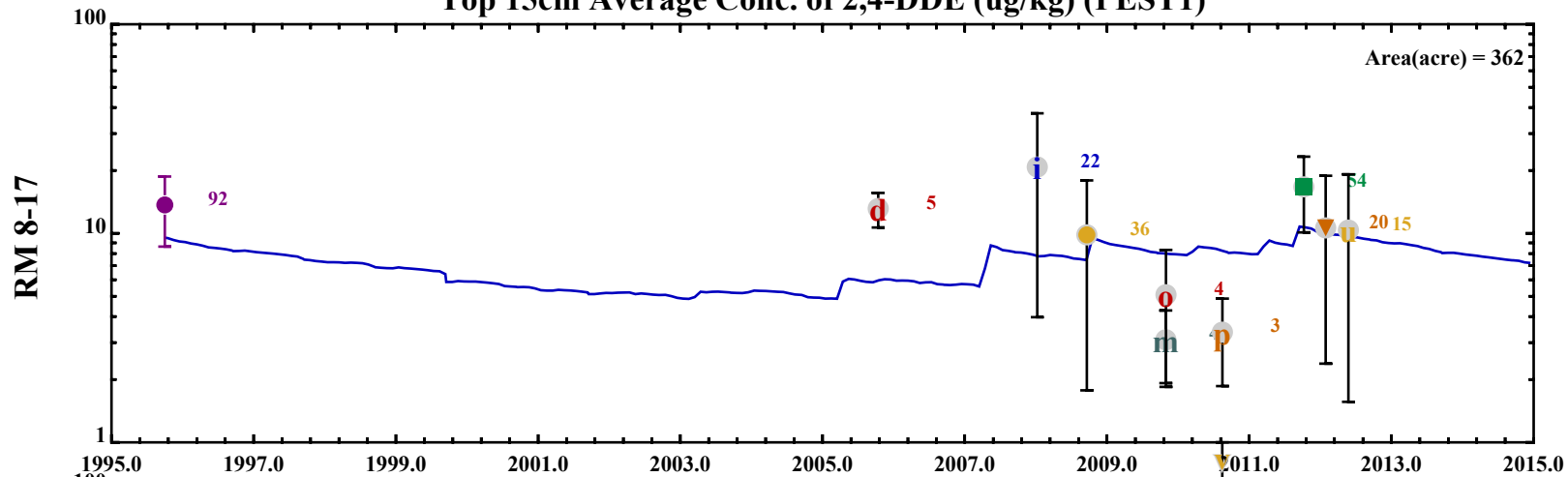


# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



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  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

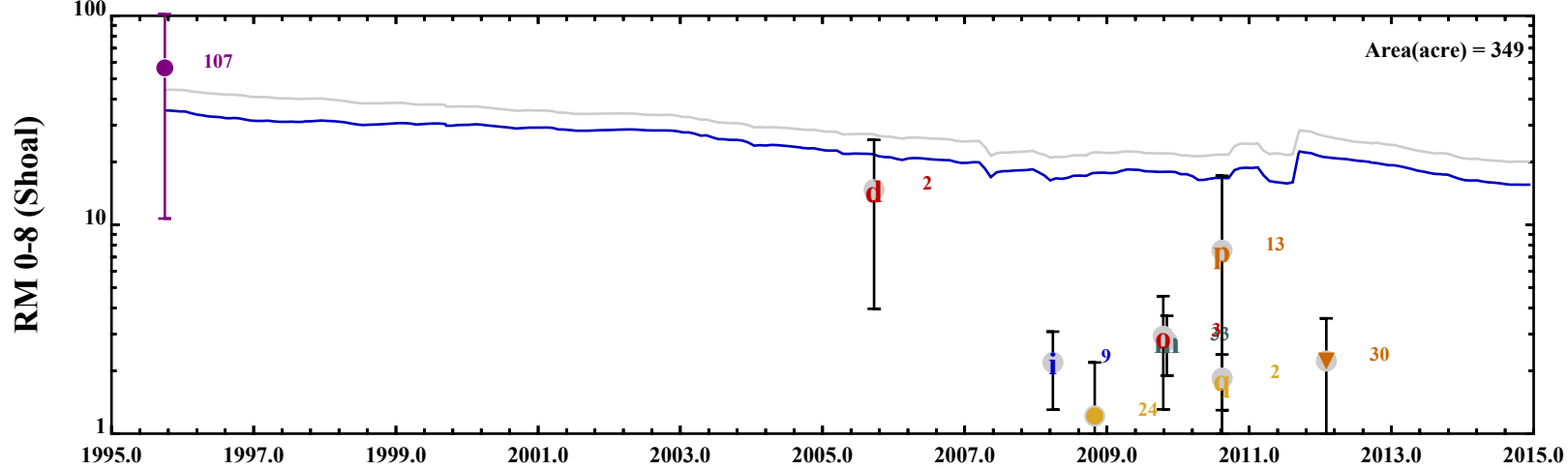
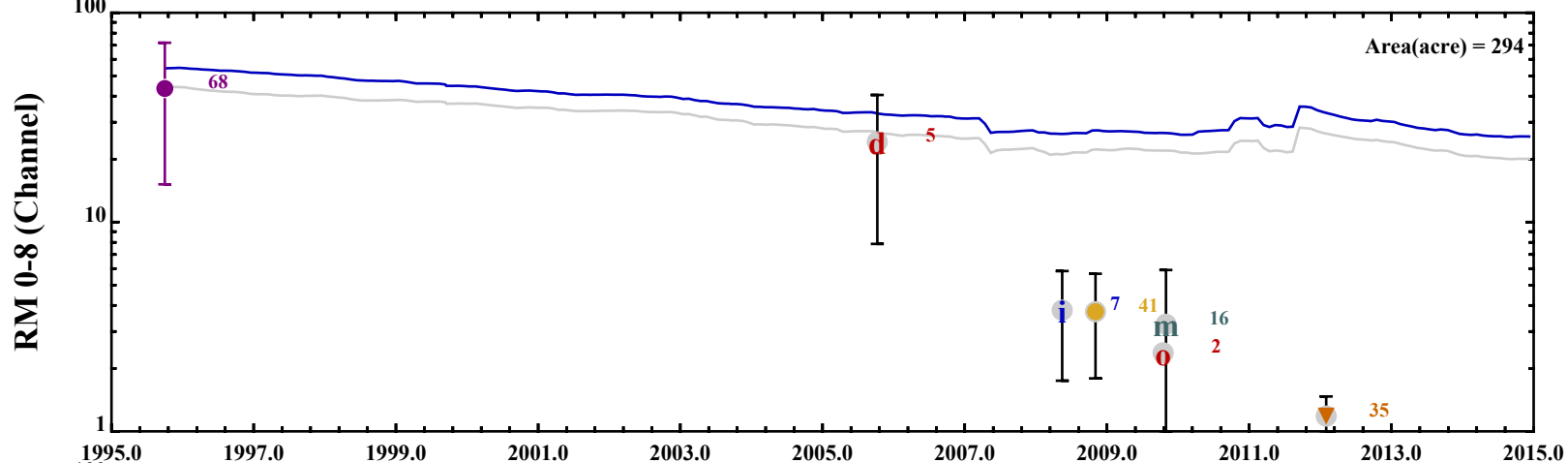
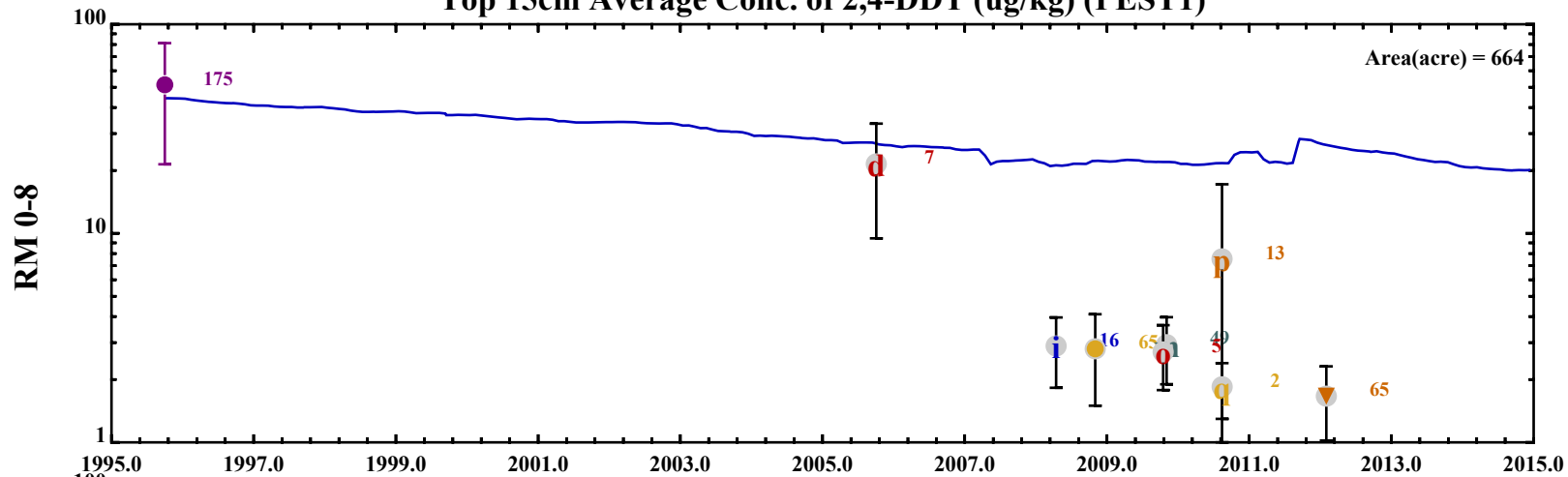
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



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  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
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  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)

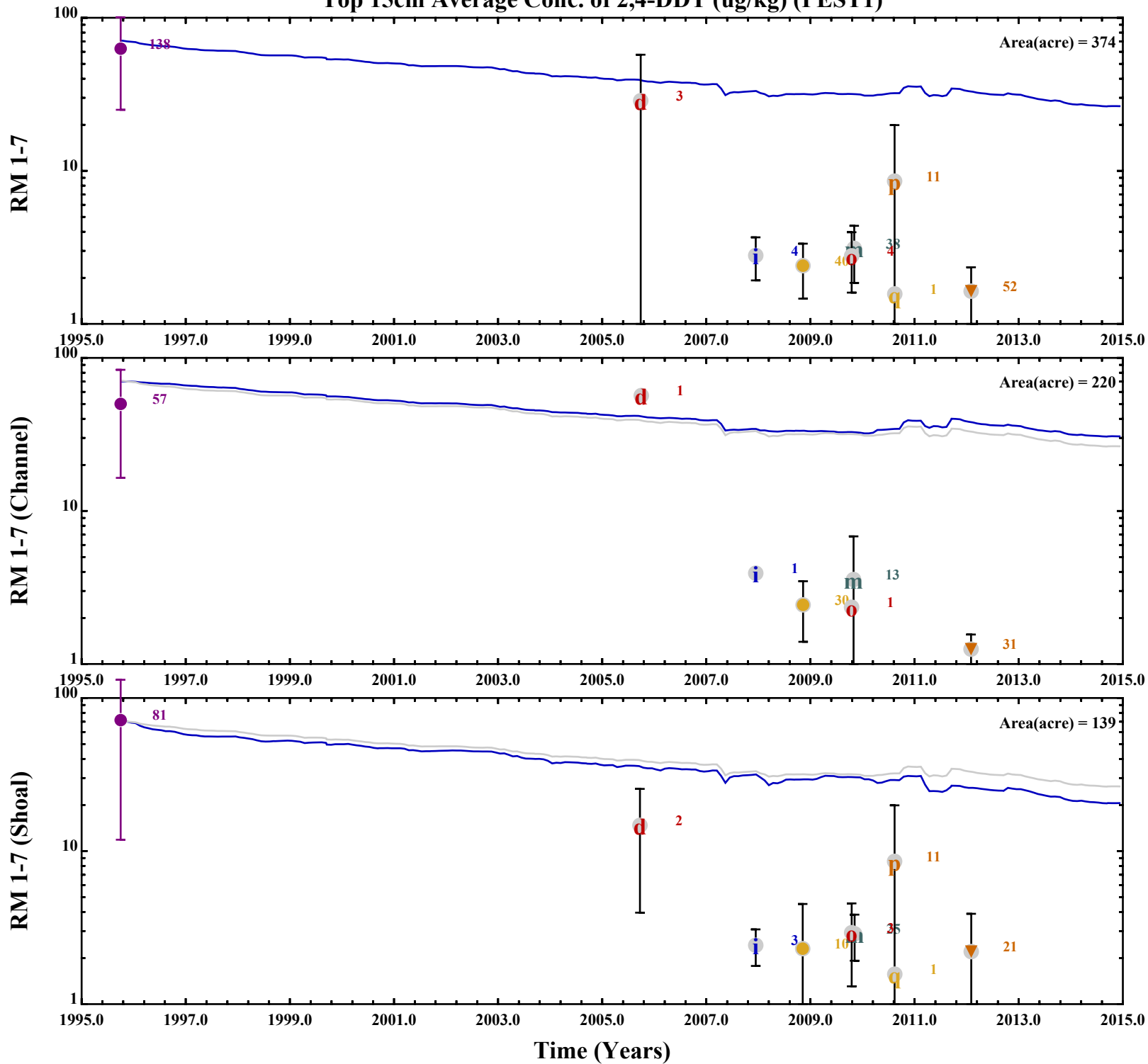


Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
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- t 2012 CPG Background Benthic Sediment
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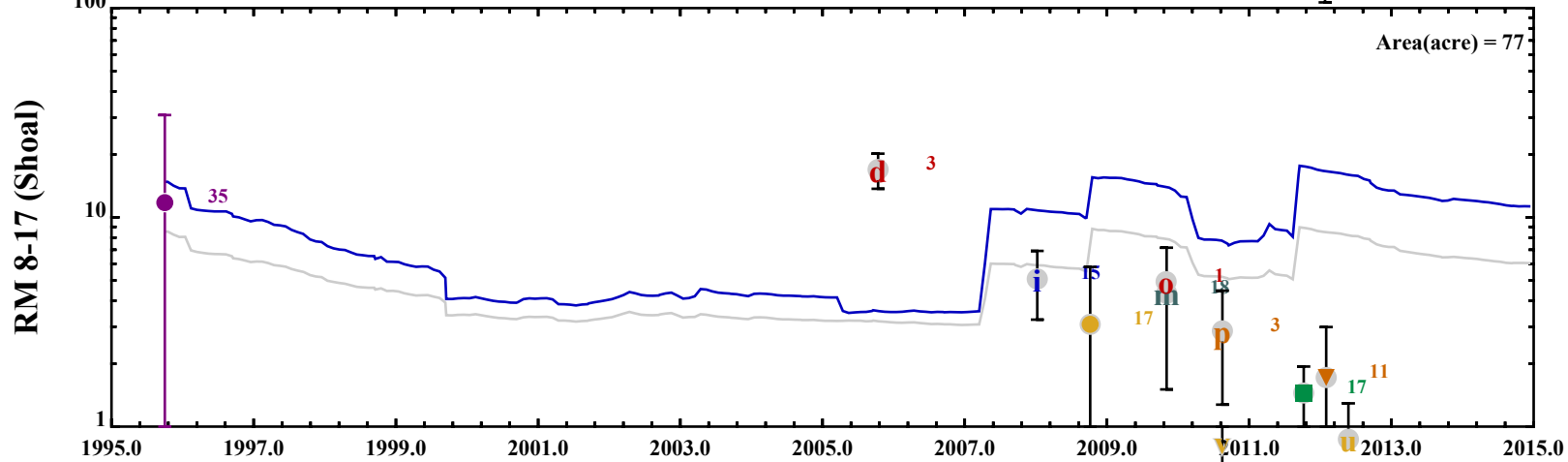
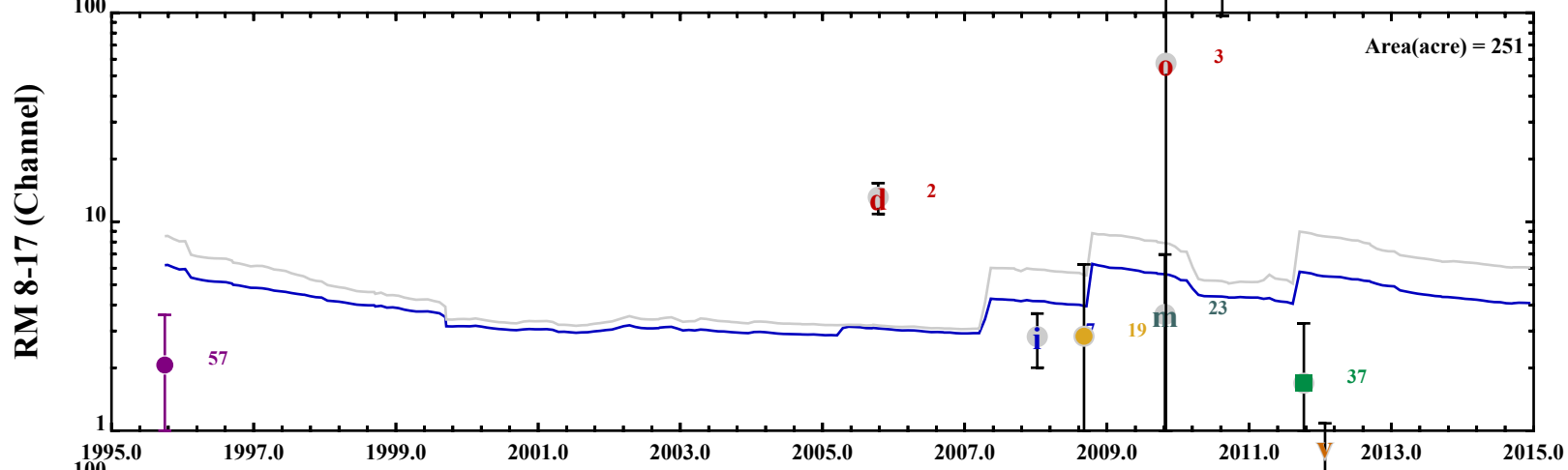
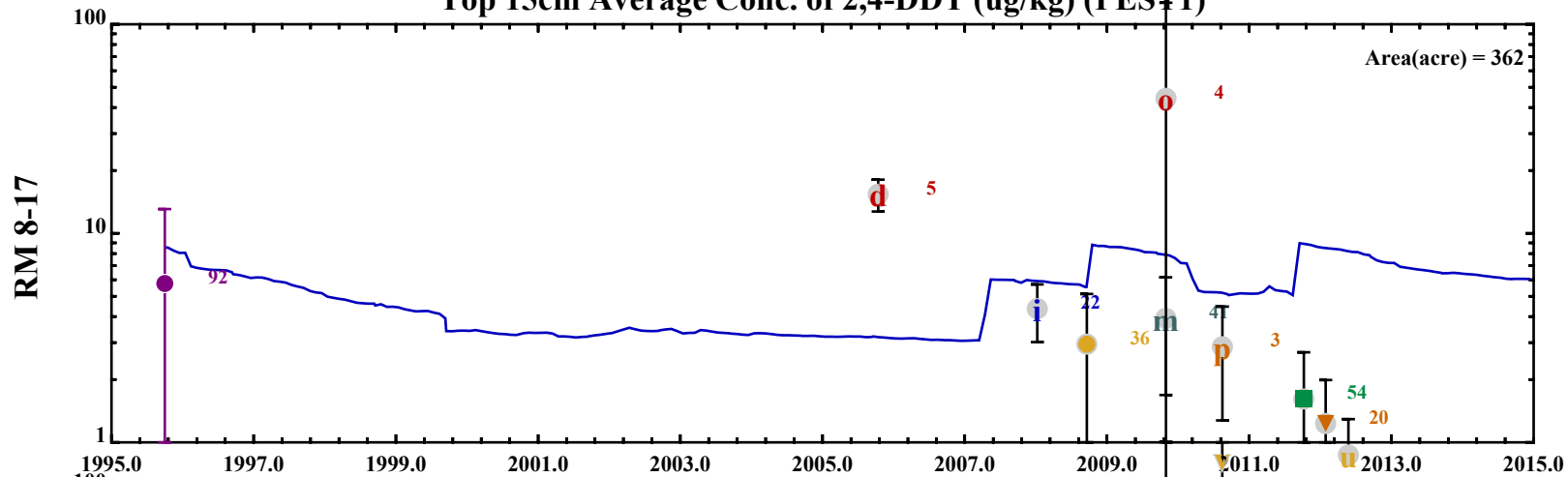
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
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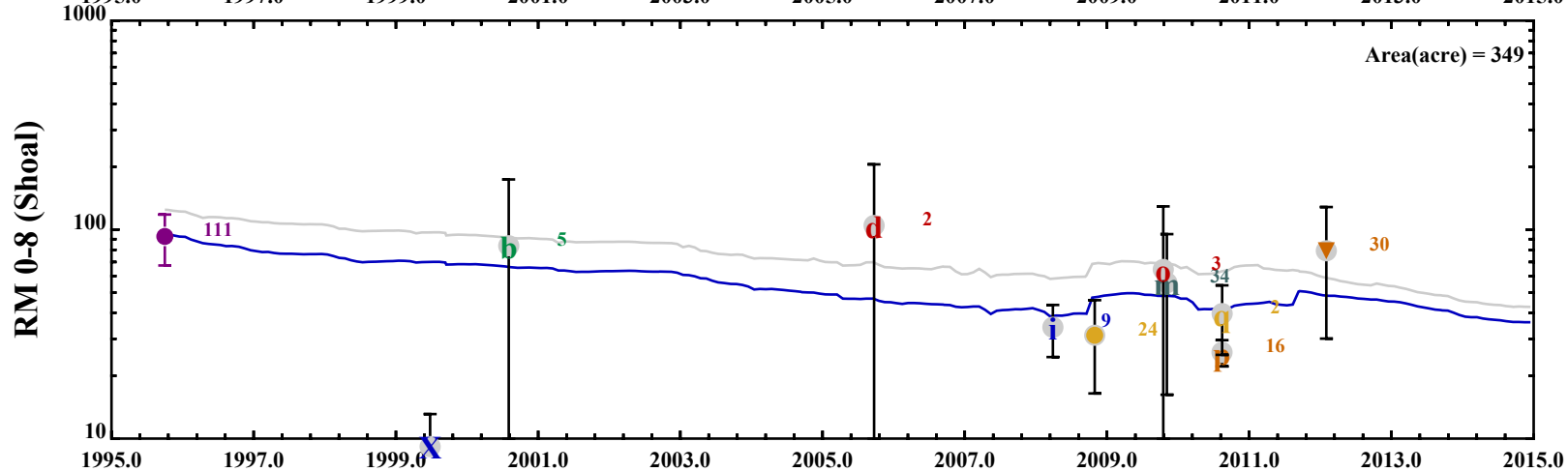
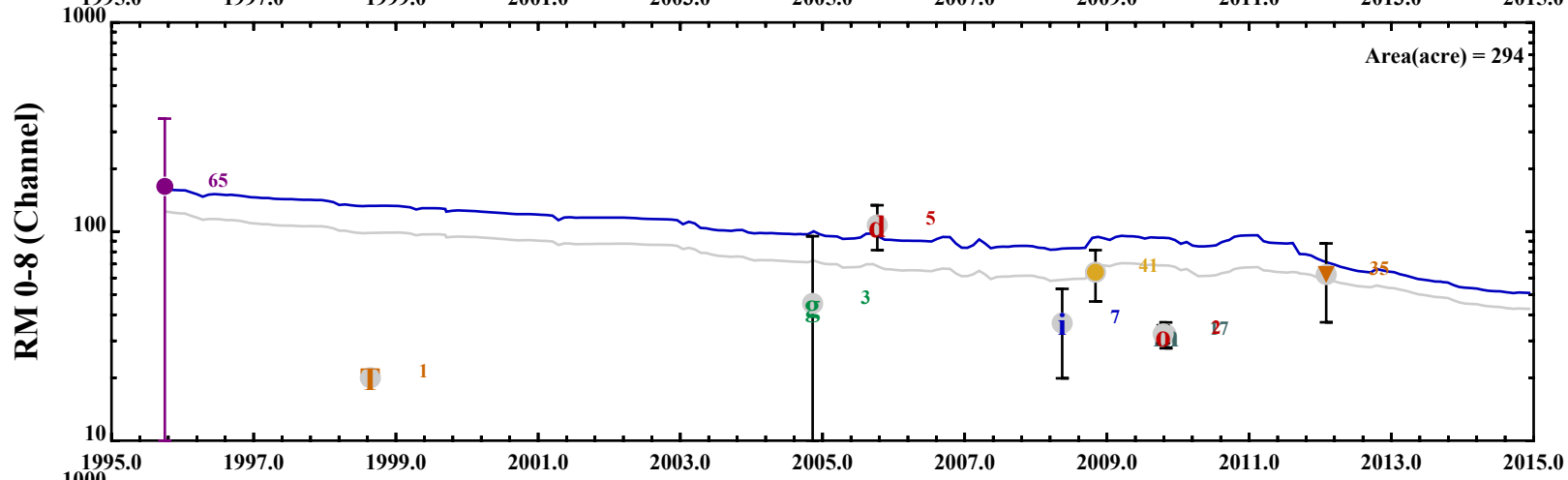
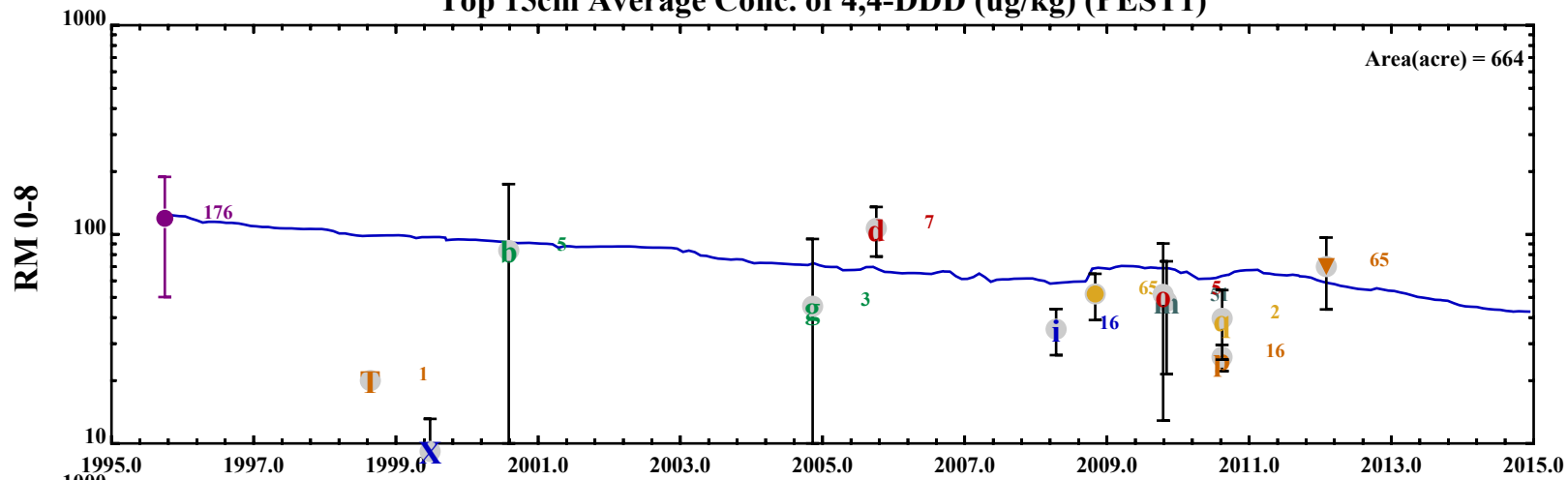
# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
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  - 2008 CPG Low Resolution Sediment Coring
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

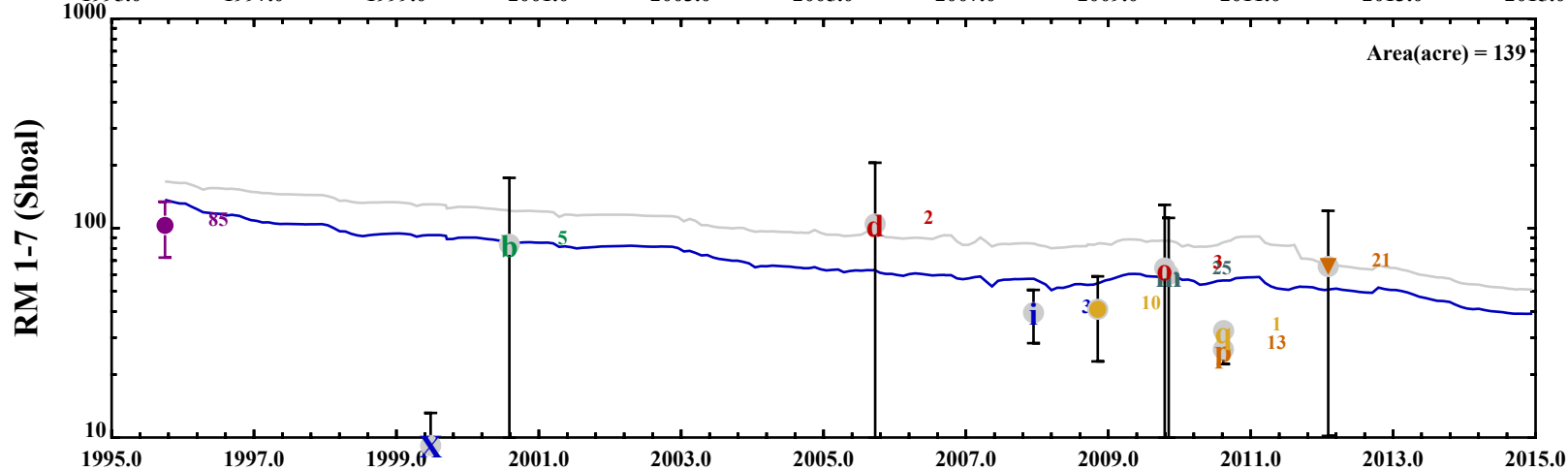
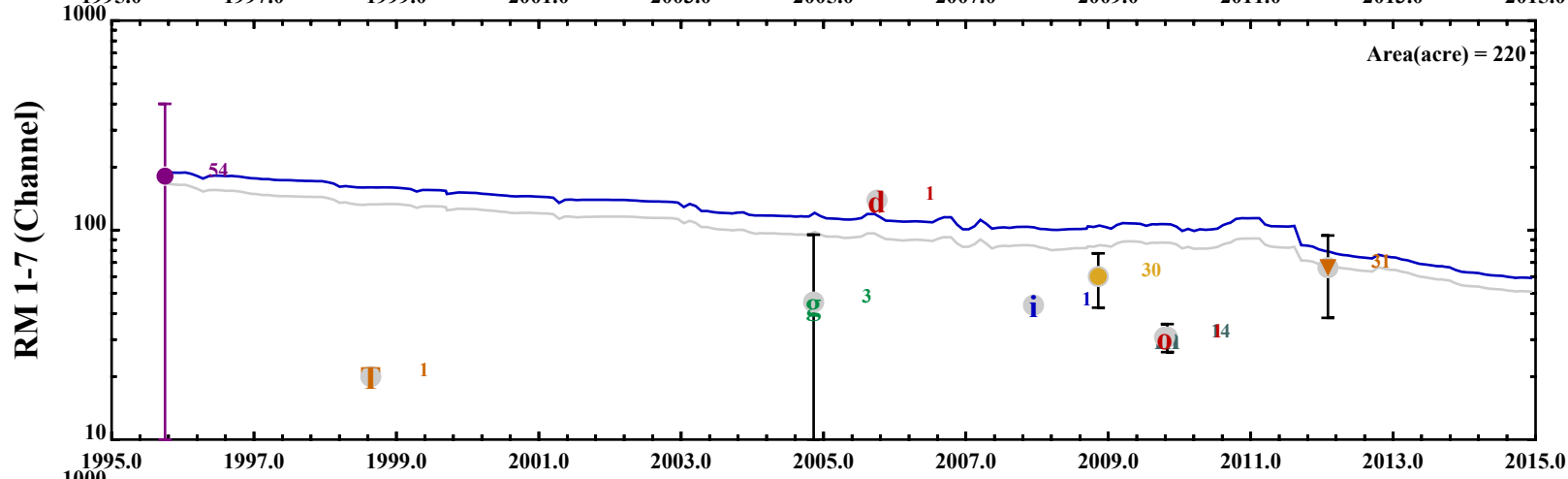
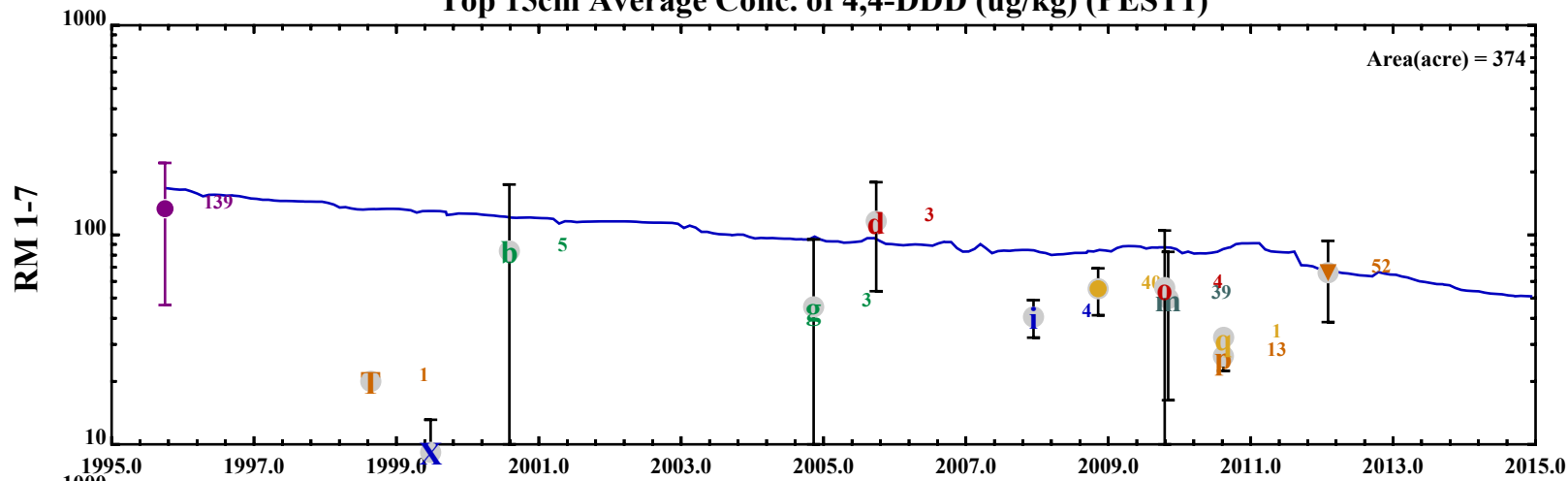
# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 1996 Newark Bay Reach A Sediment Sampling Program
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- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
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- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)

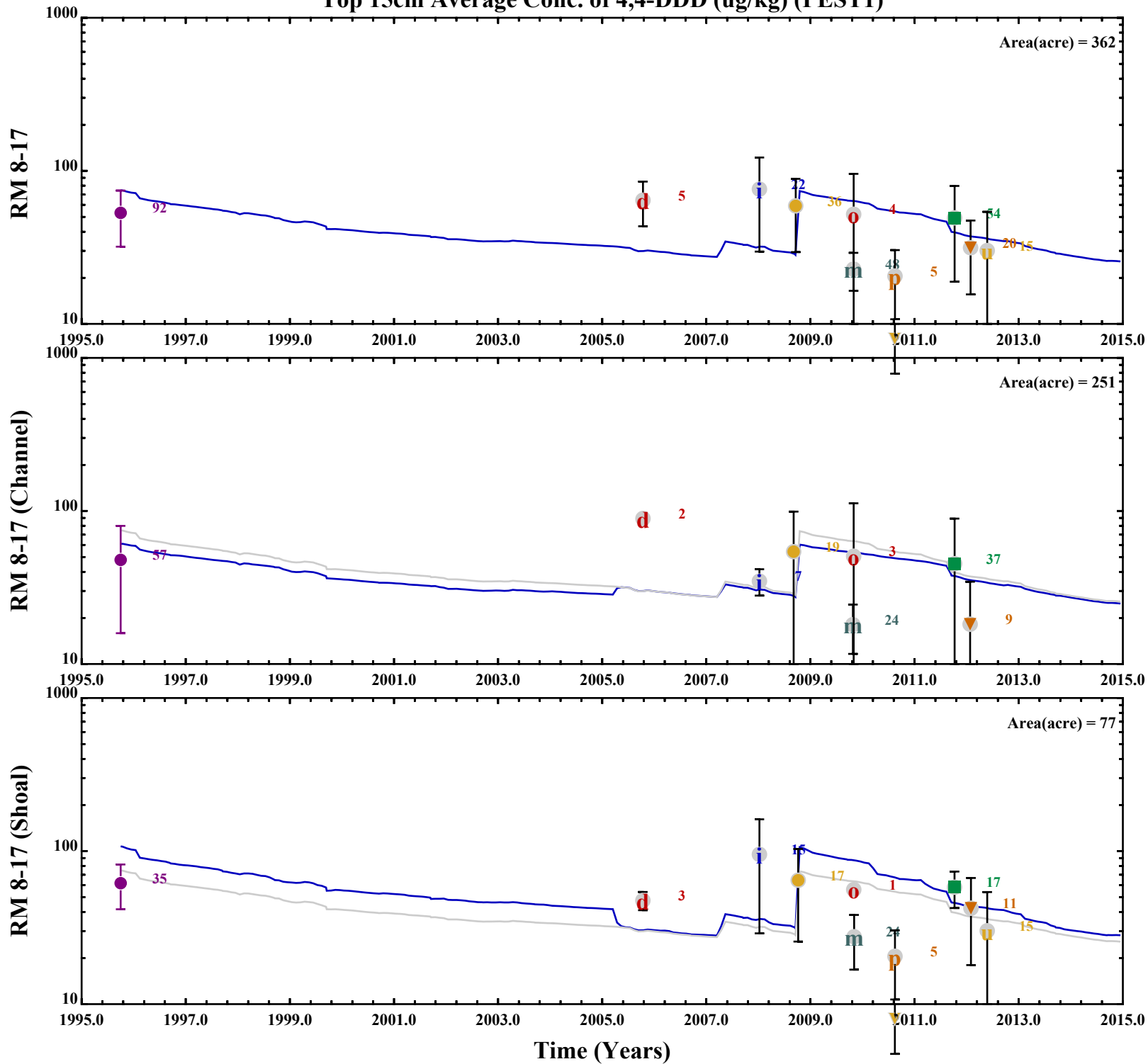


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 1996 Newark Bay Reach A Sediment Sampling Program
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2008 CPG Low Resolution Sediment Coring
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

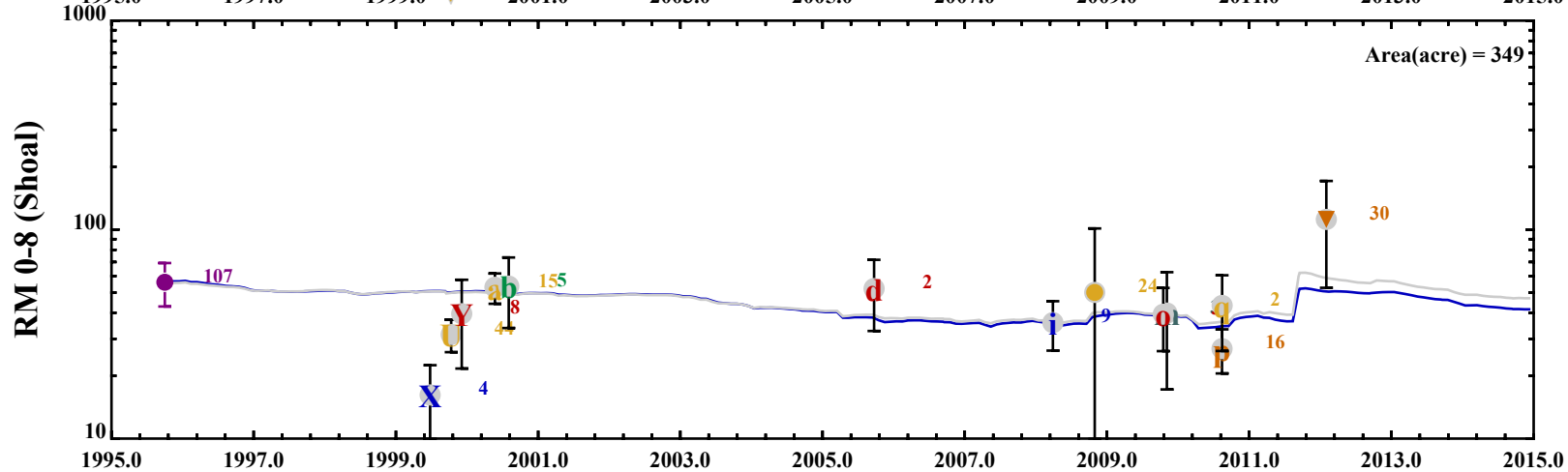
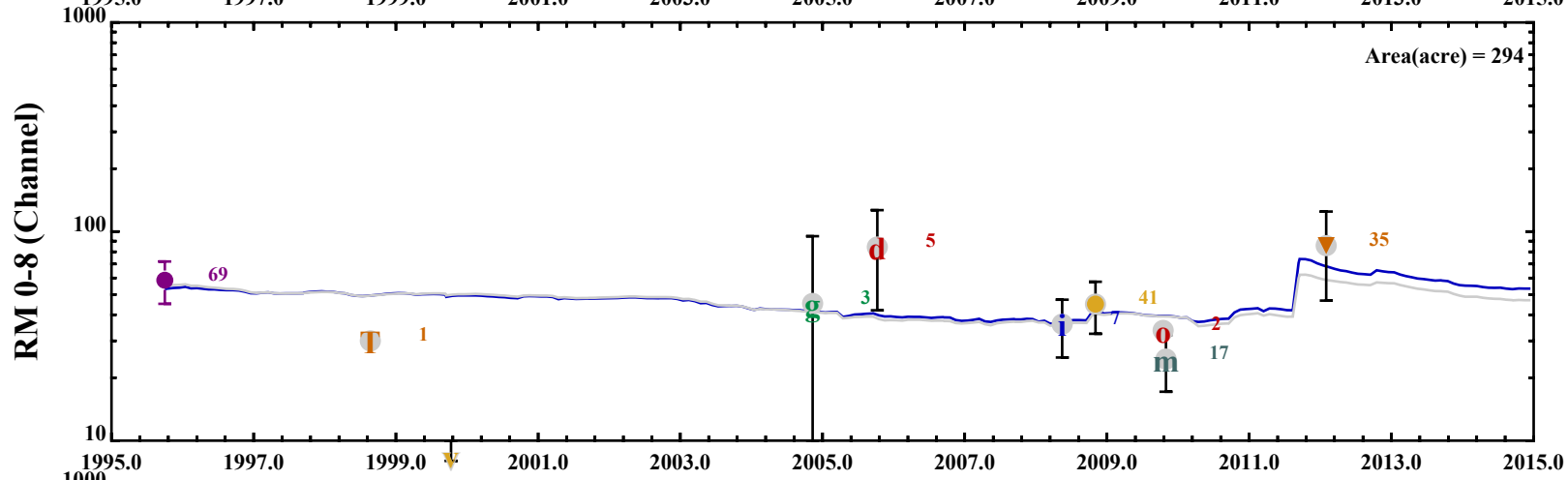
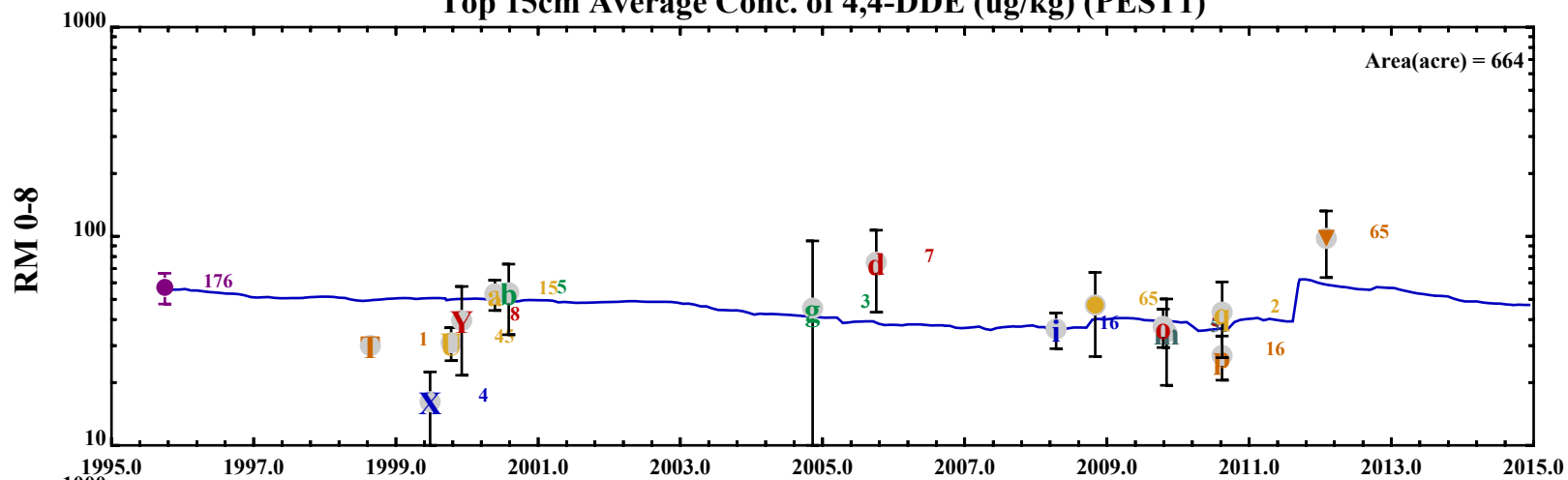
# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



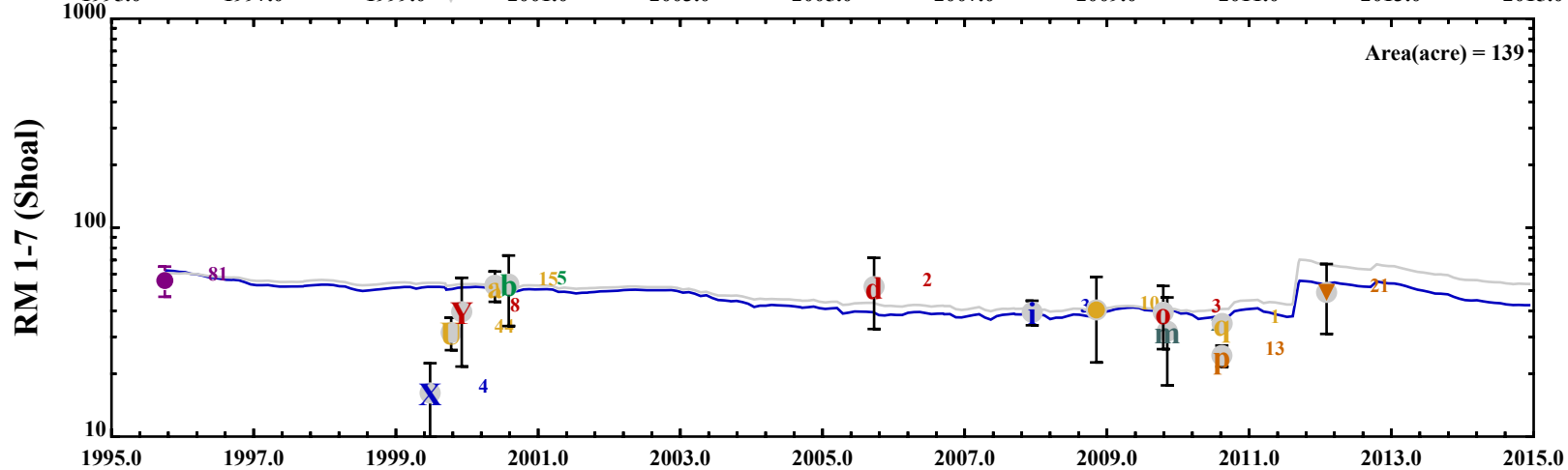
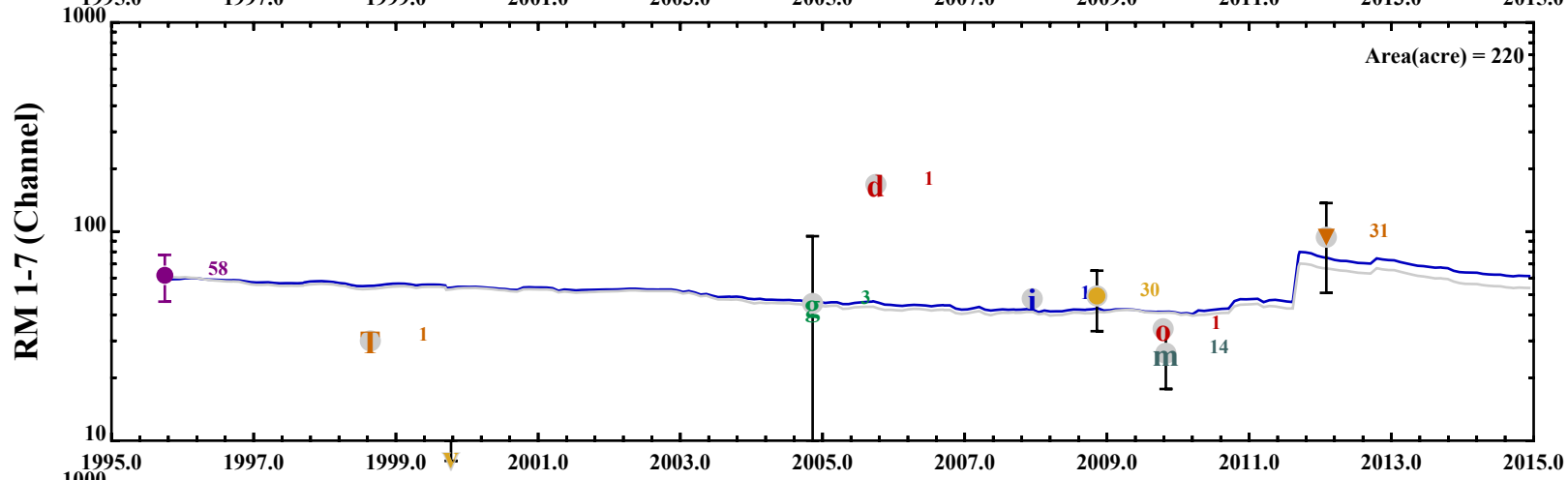
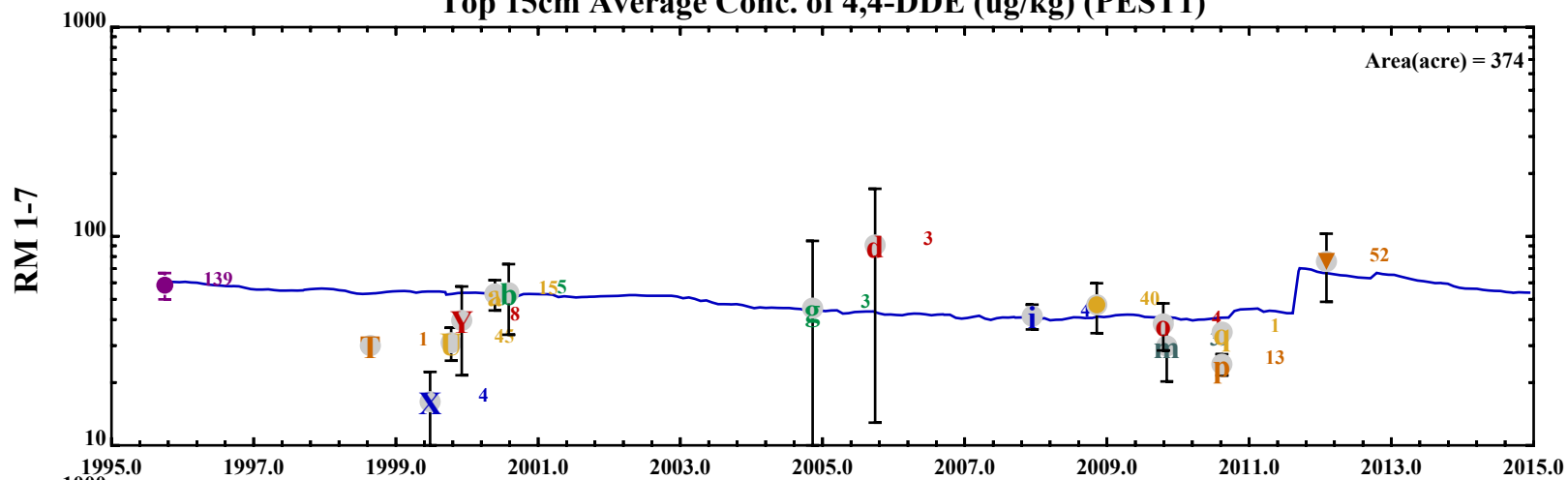
# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

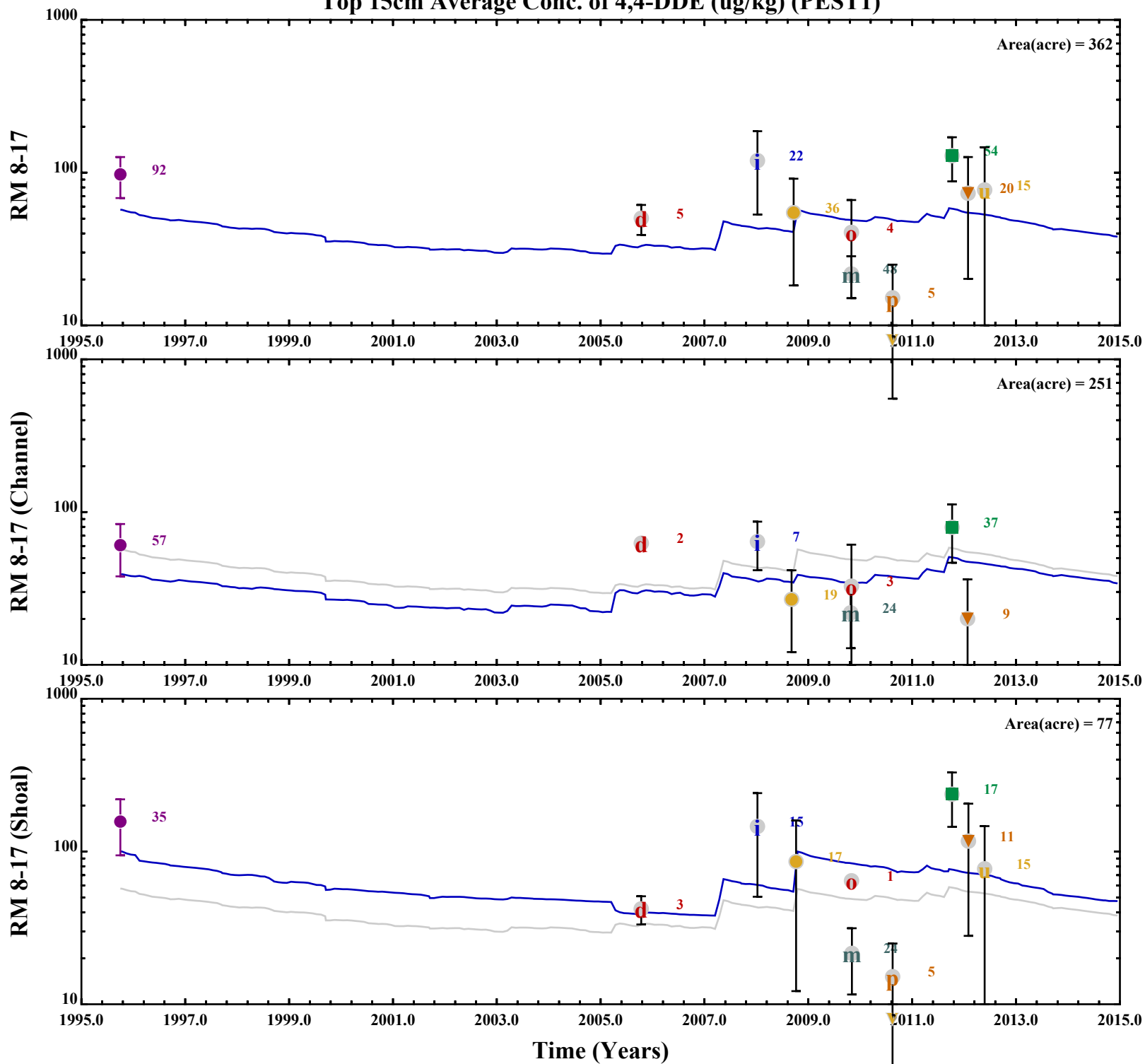
# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

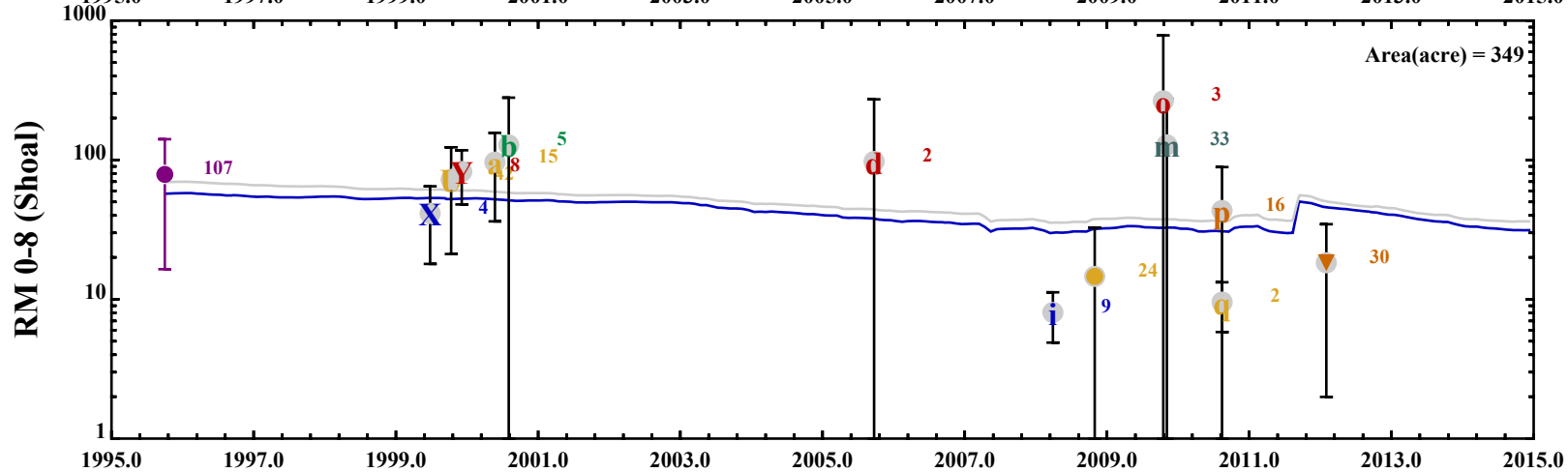
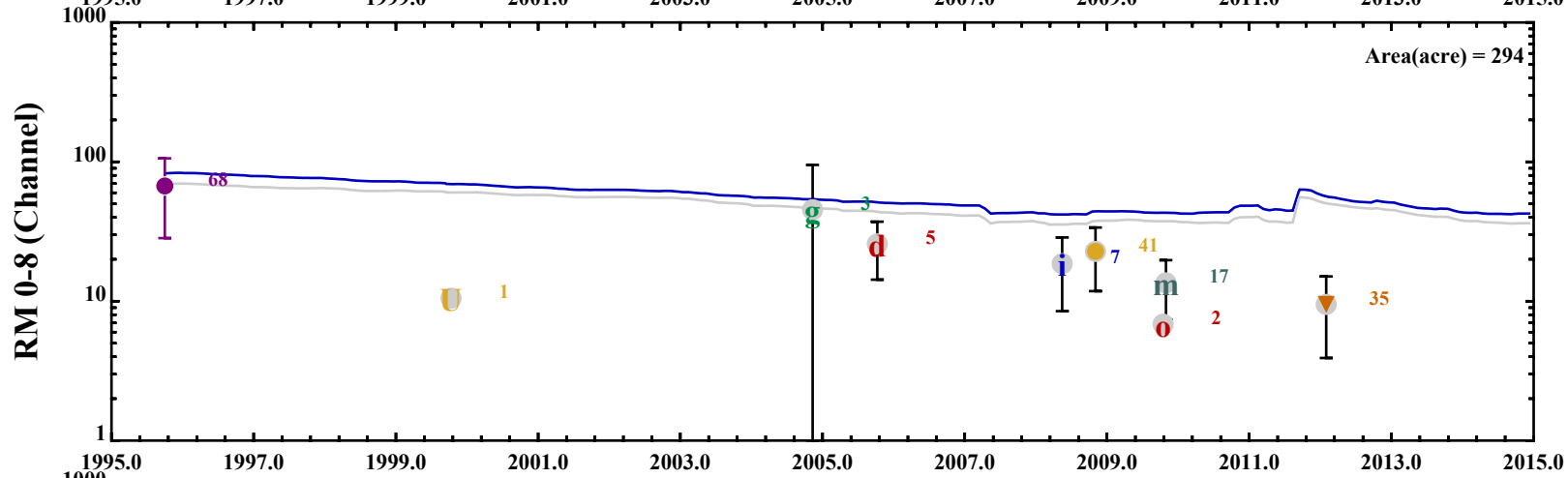
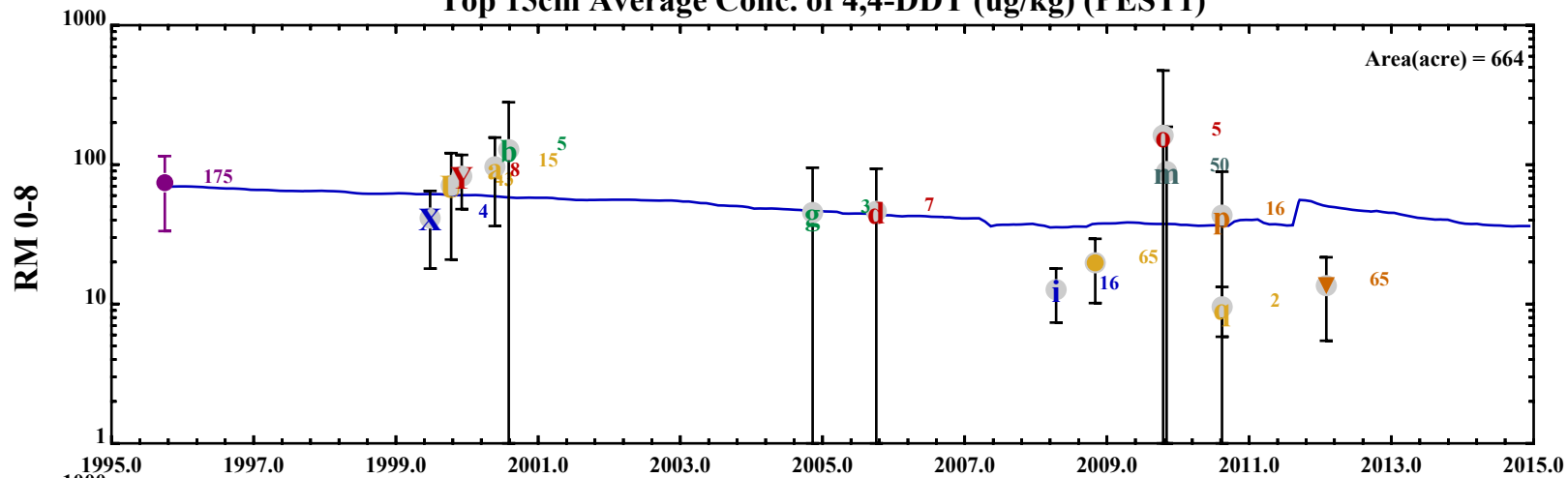
# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

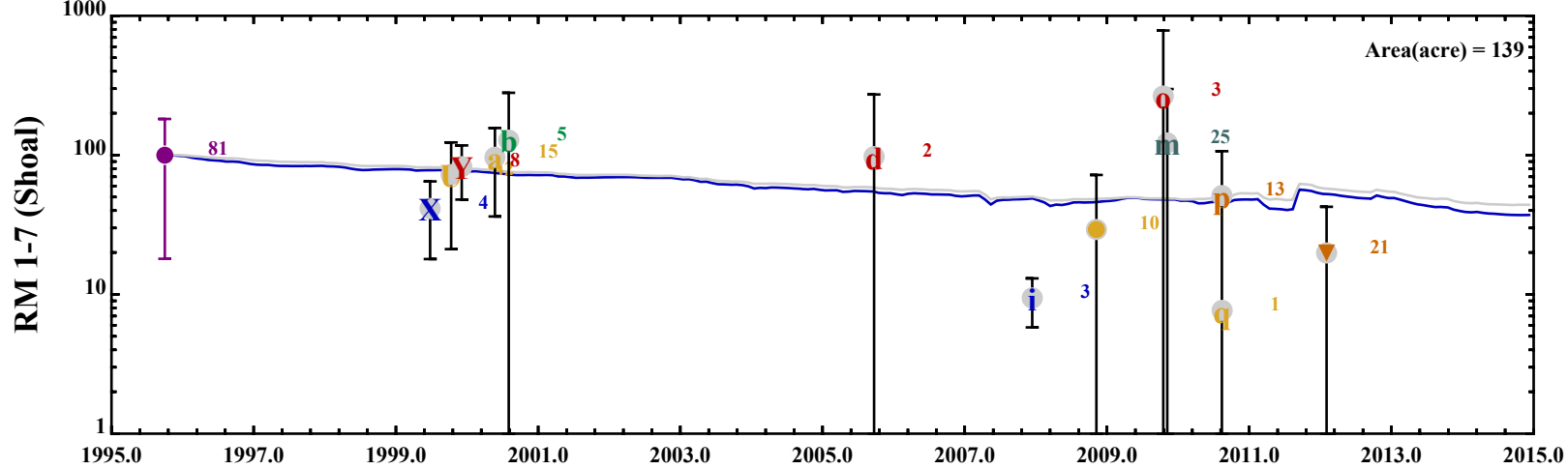
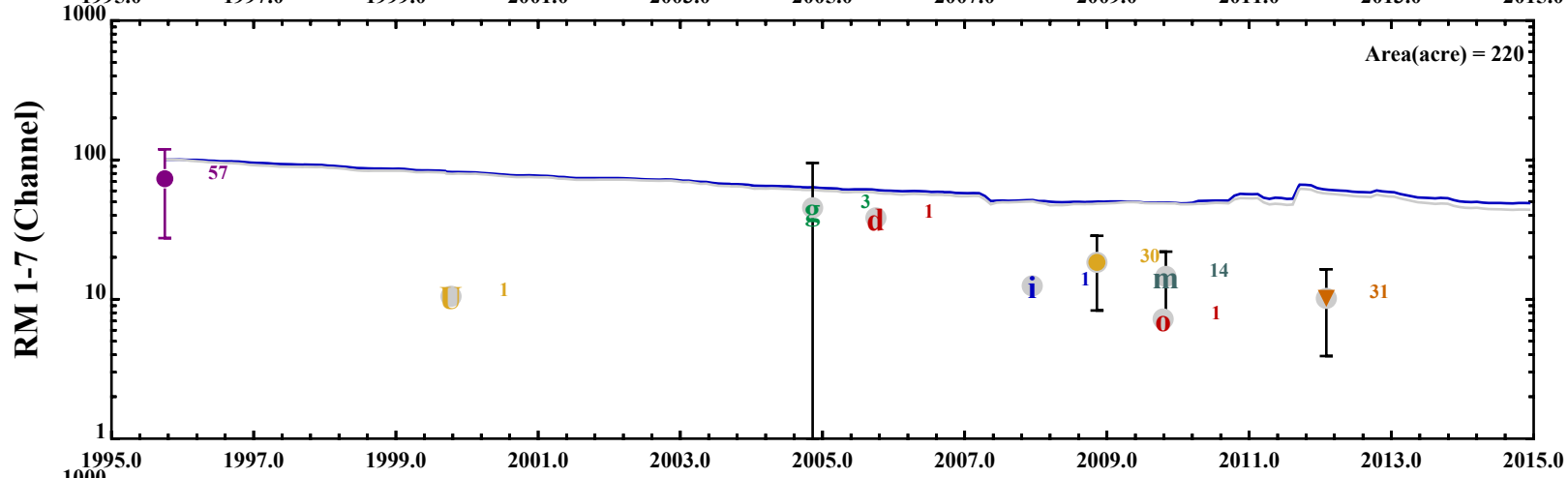
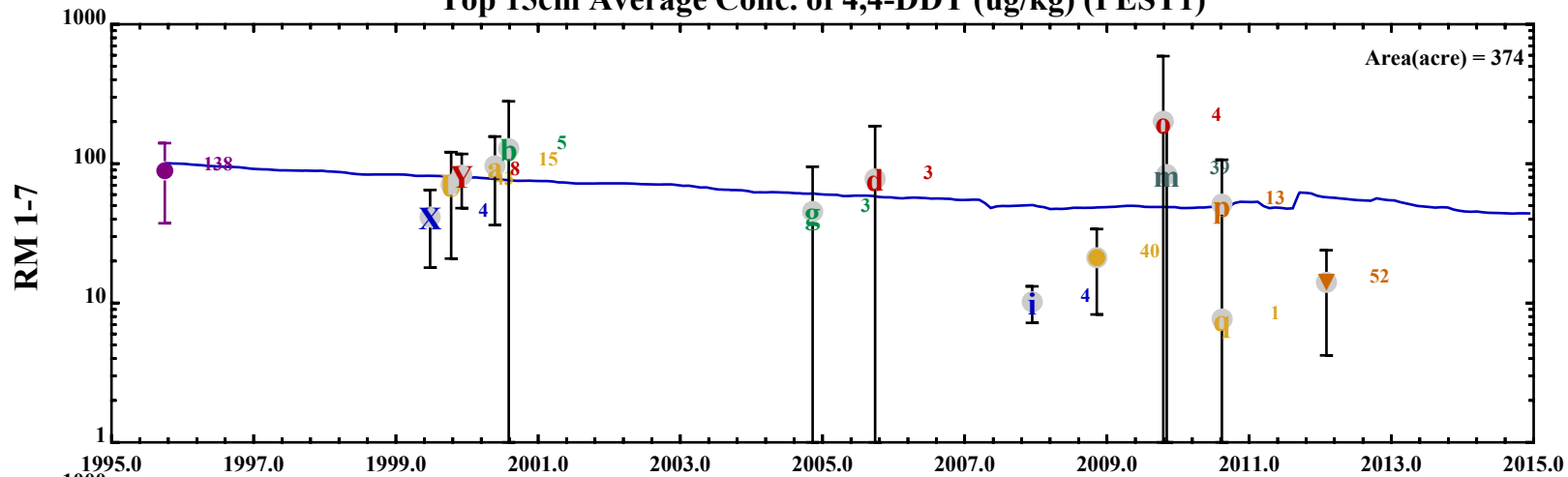
# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

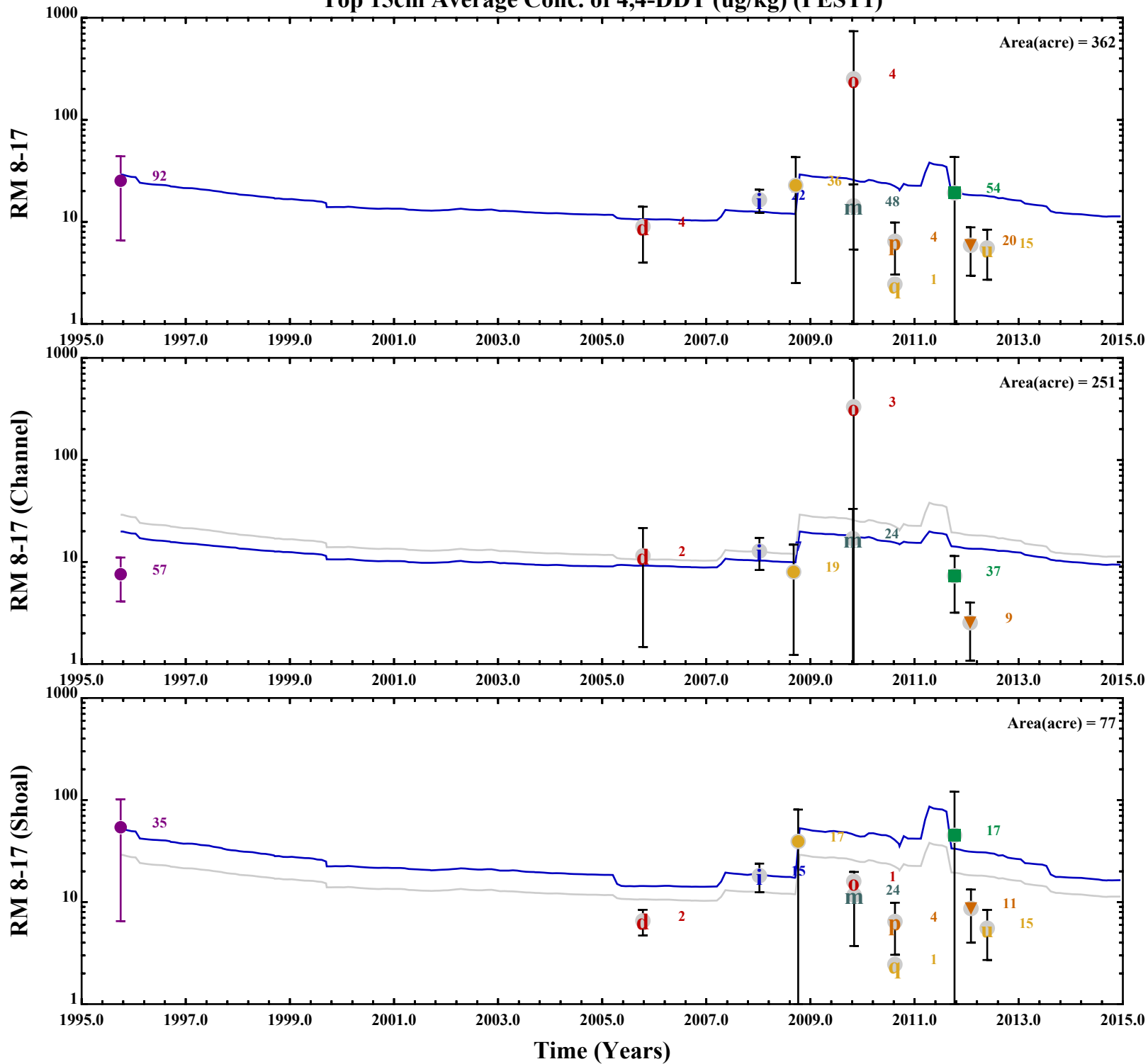
# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

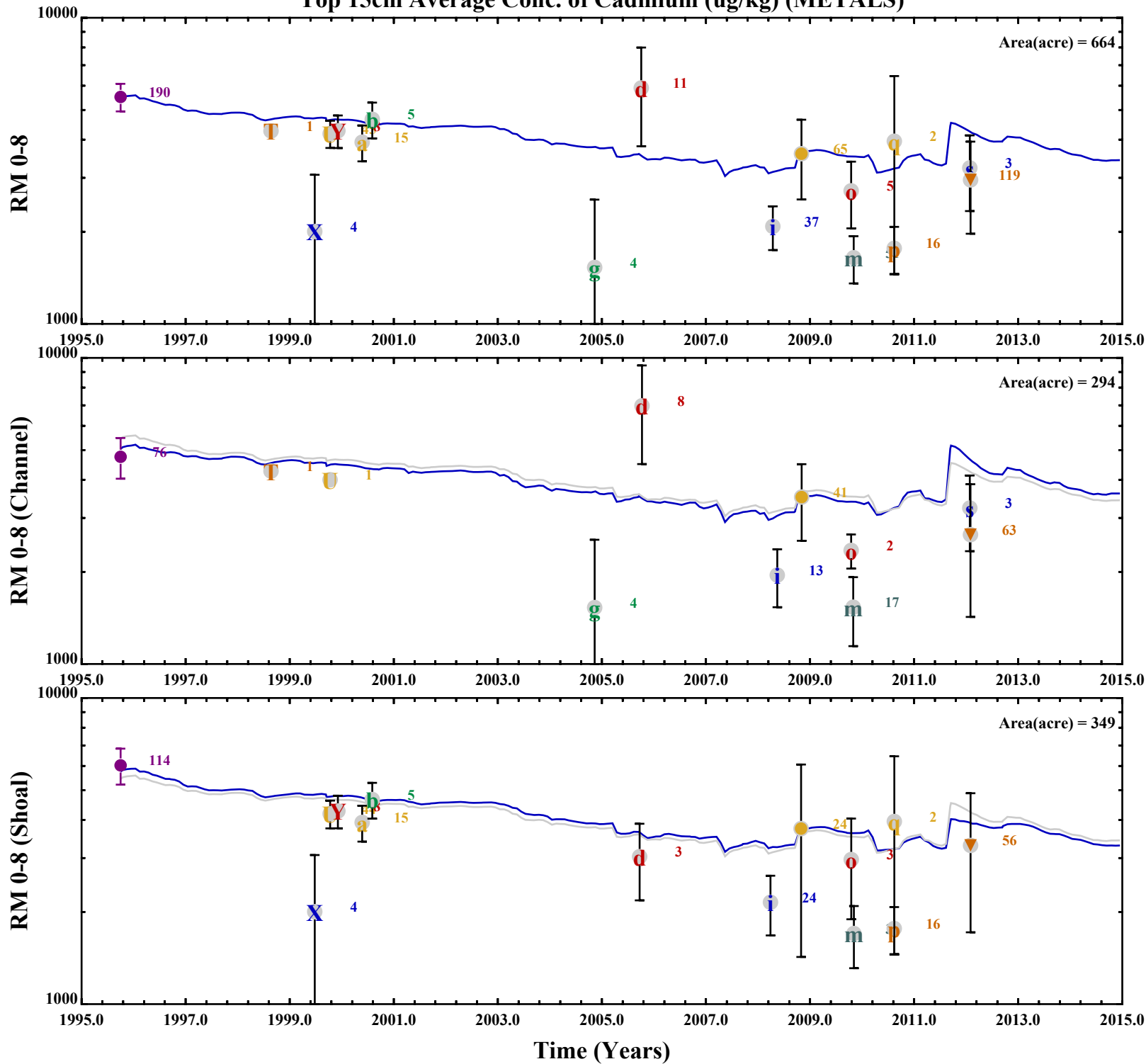
Time (Years)

# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



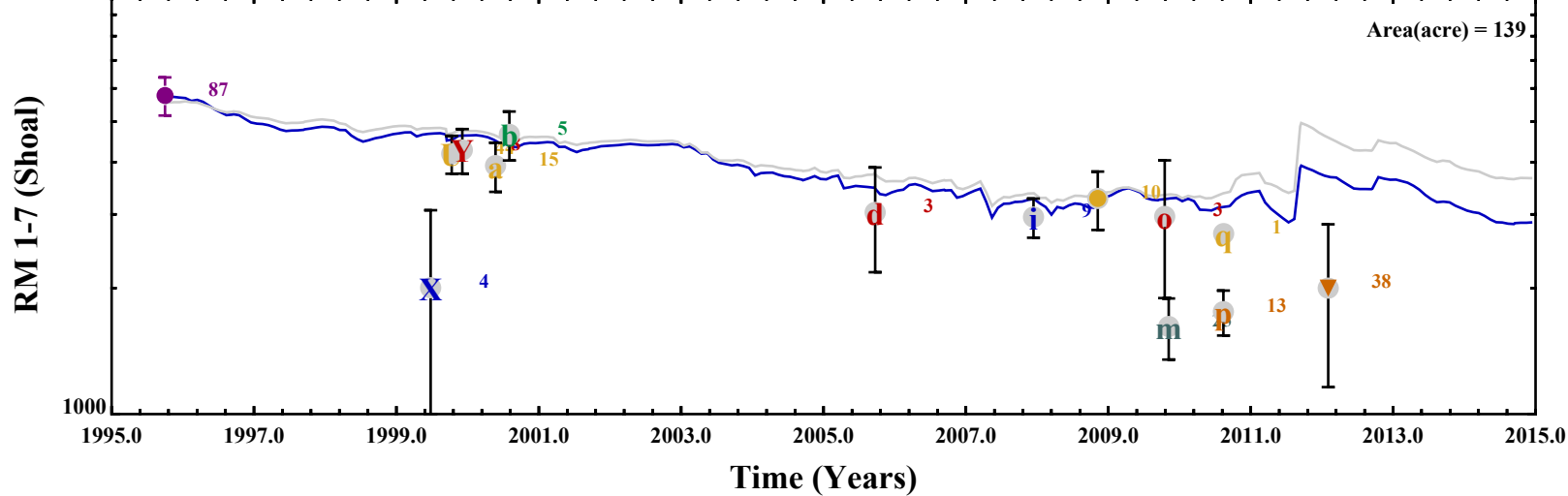
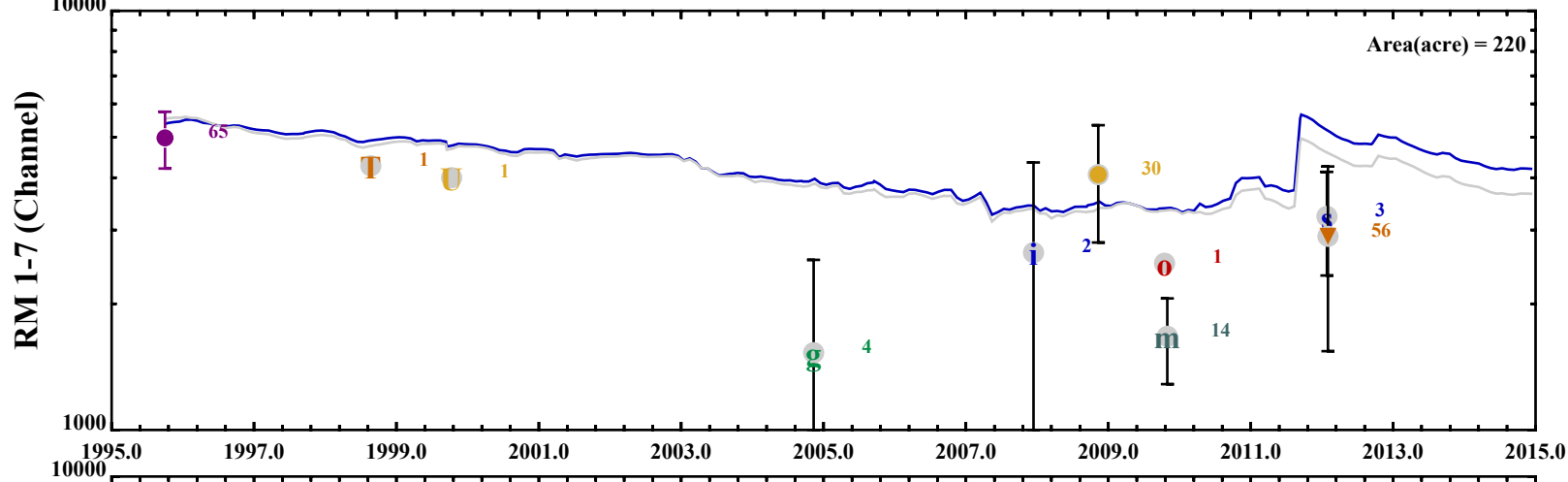
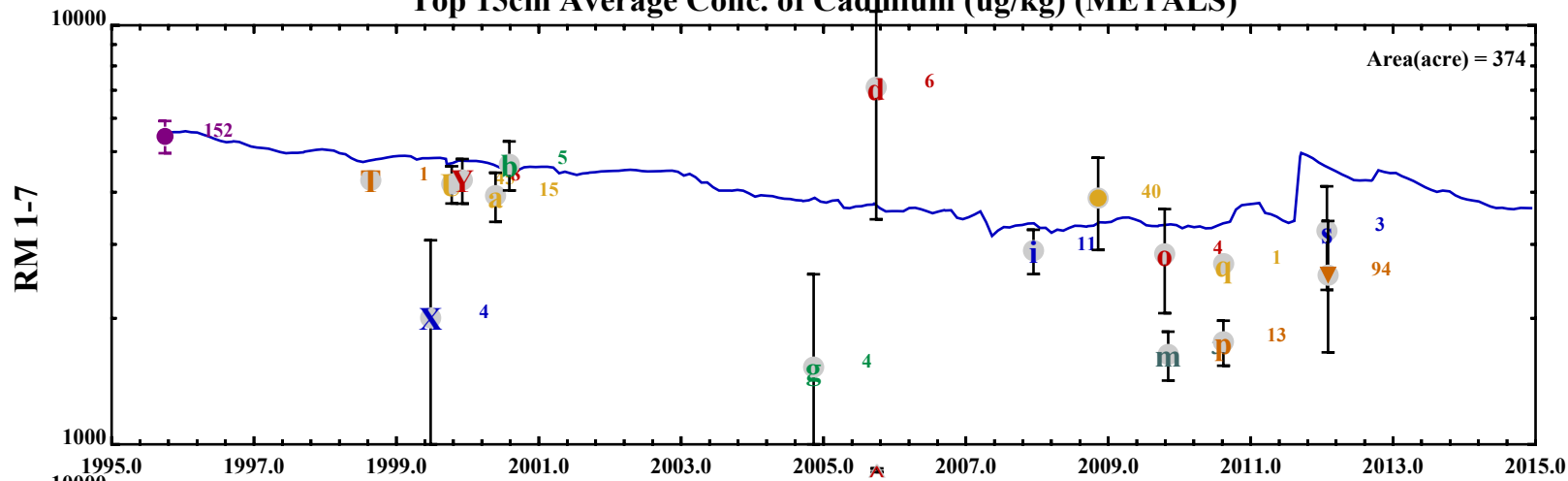
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
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  - 1993 REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP, 1994
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up (Blue line)
- No Action Gradient IC, Reach Scale Up (Full Reach) (Grey line)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)

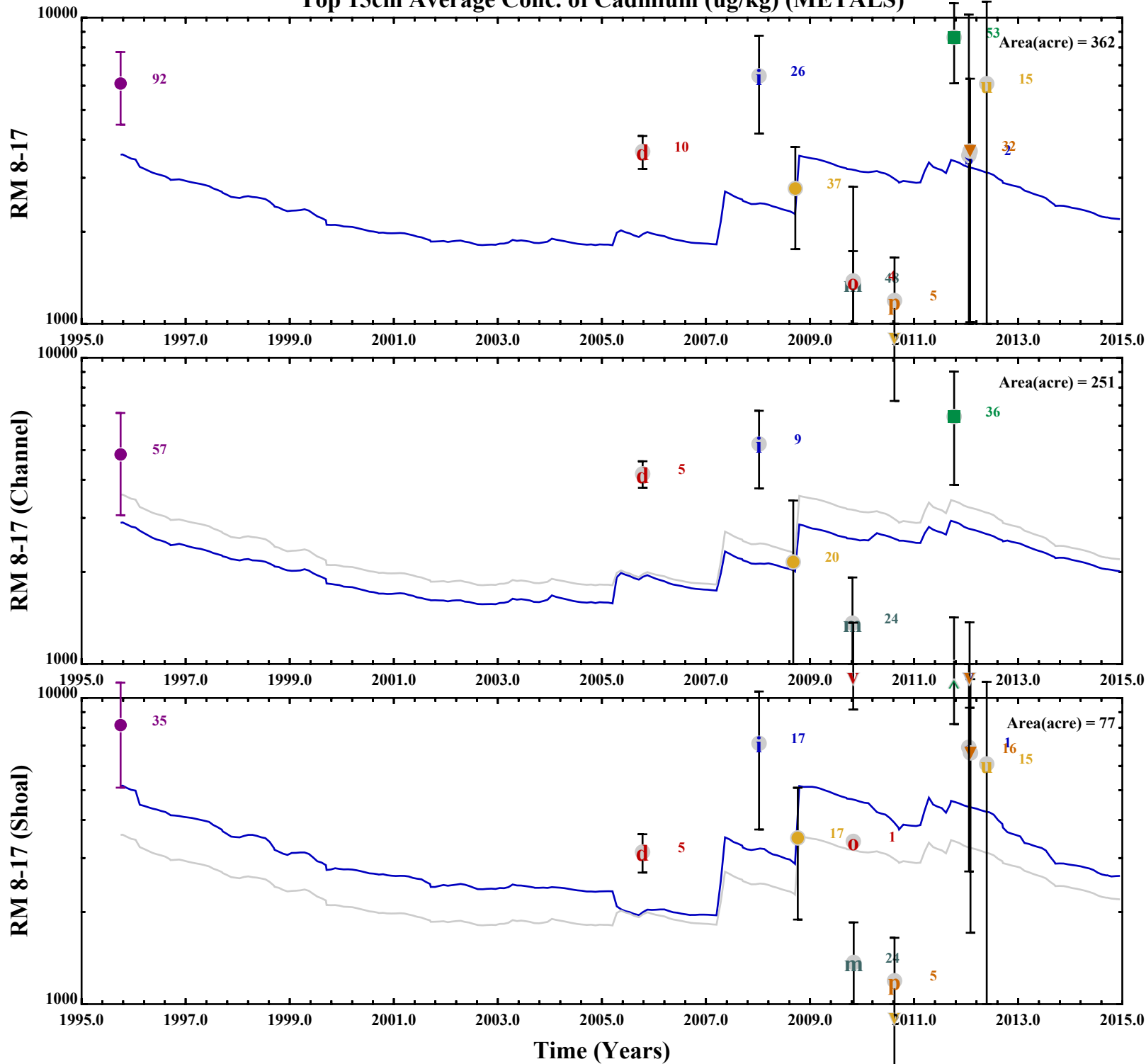


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1997 Newark Bay Reach B,C,D Sampling Program
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- 2007 USEPA-MPI Dundee High Res Core
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



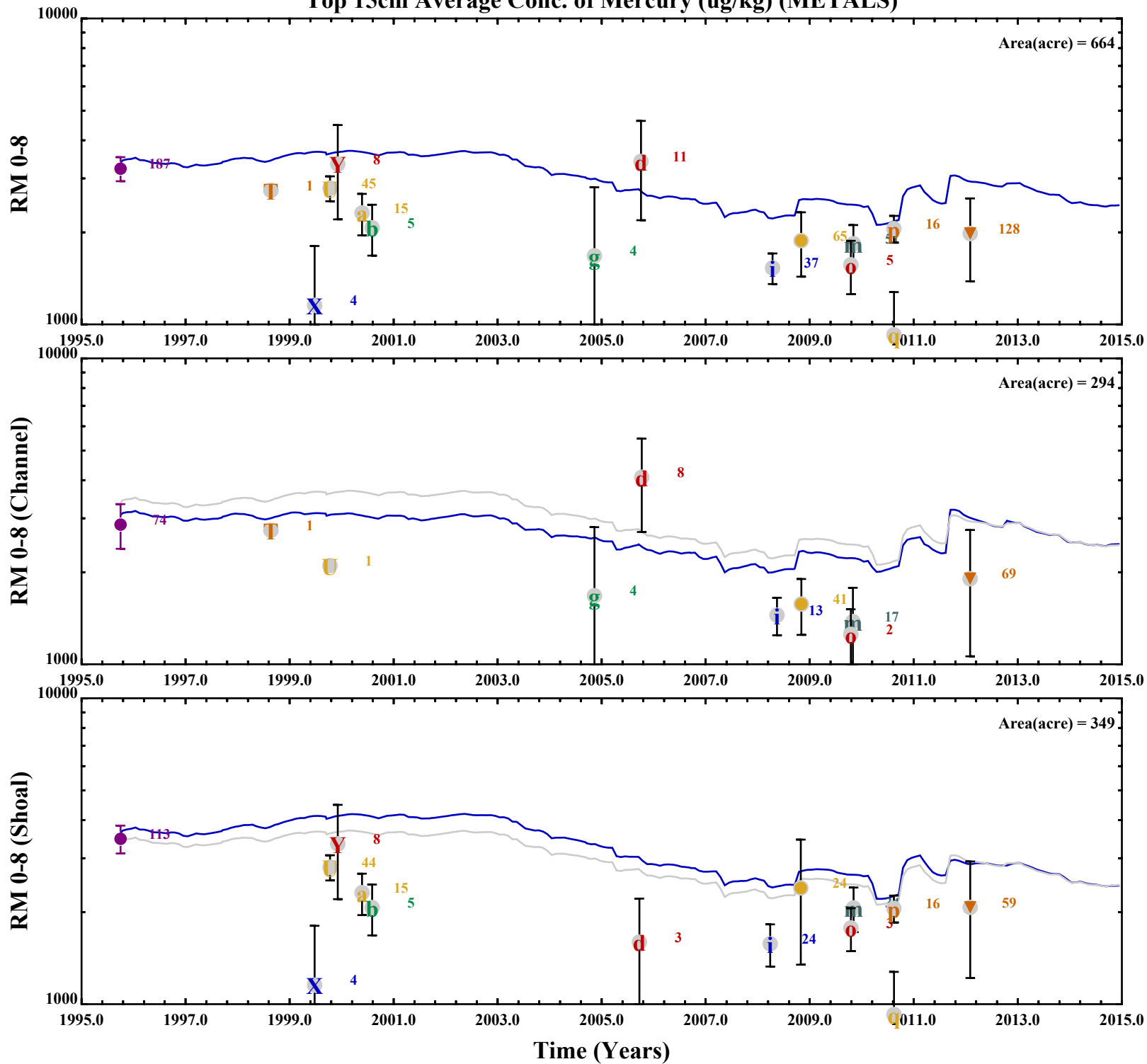
# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

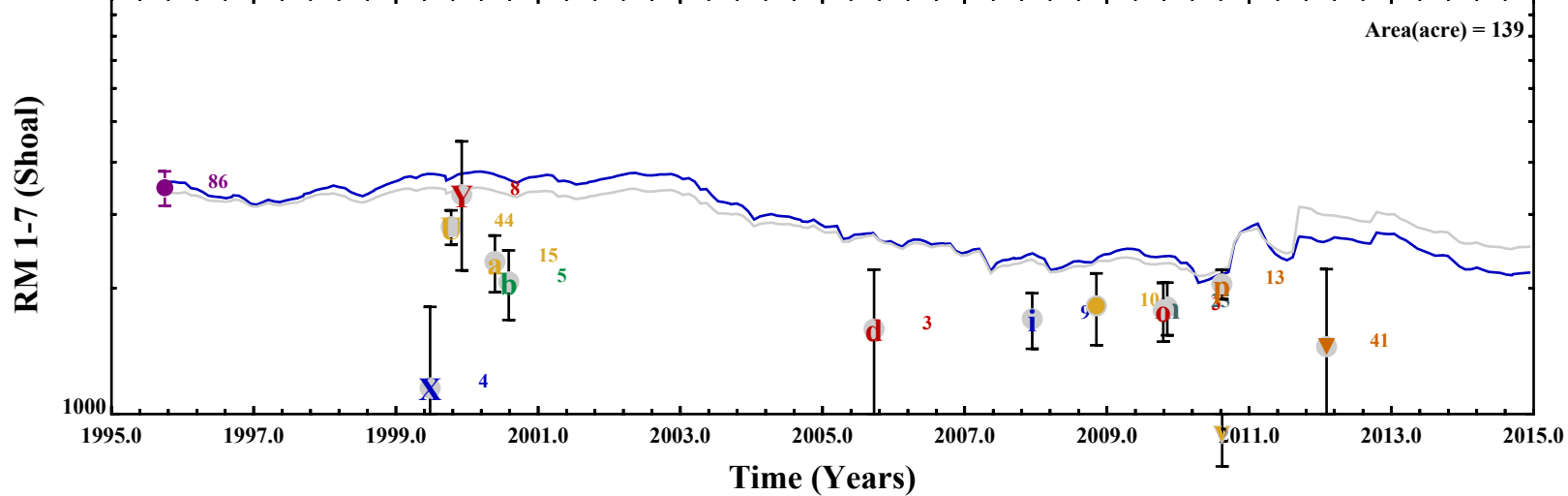
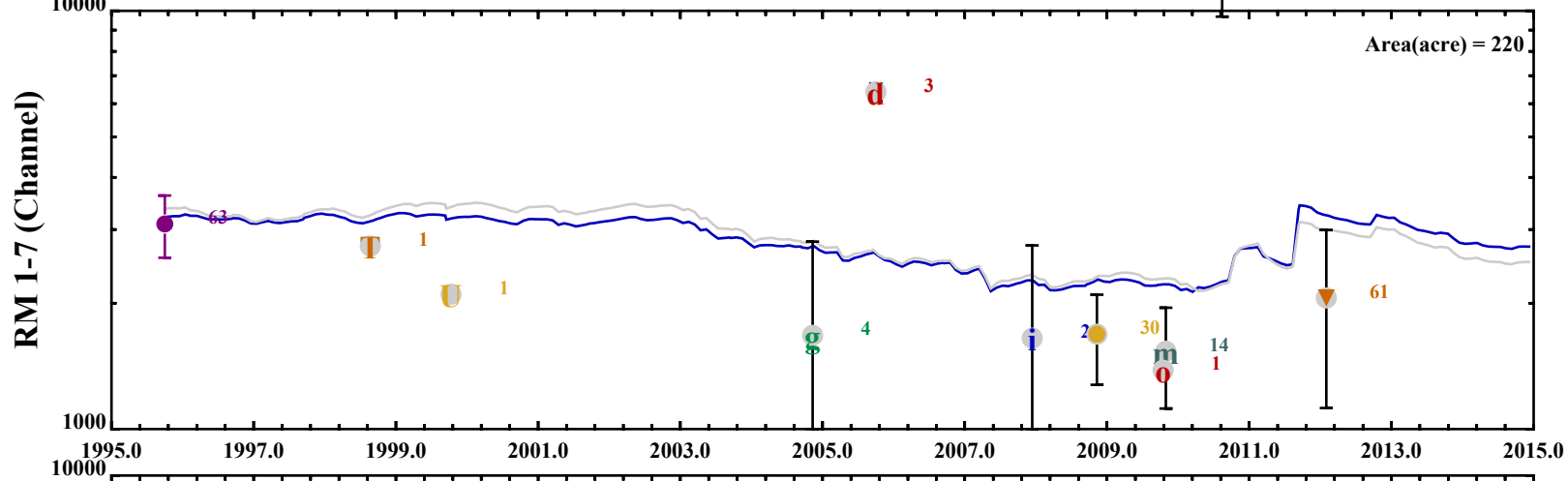
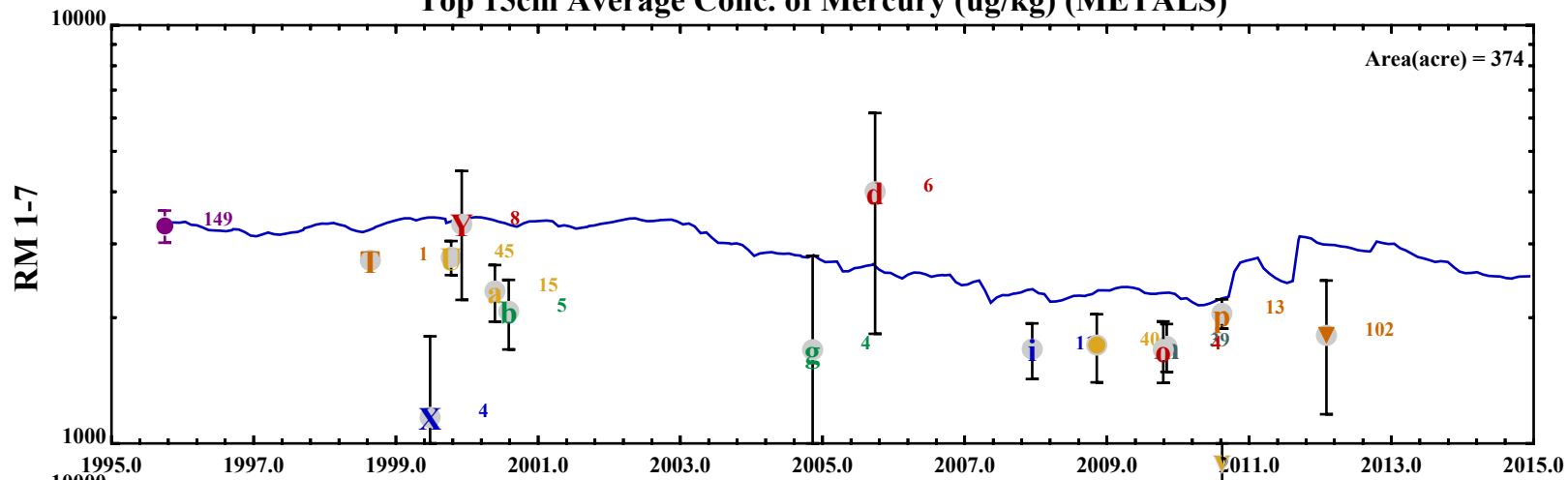
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - 1995 USACE Minish Park Investigation
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  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

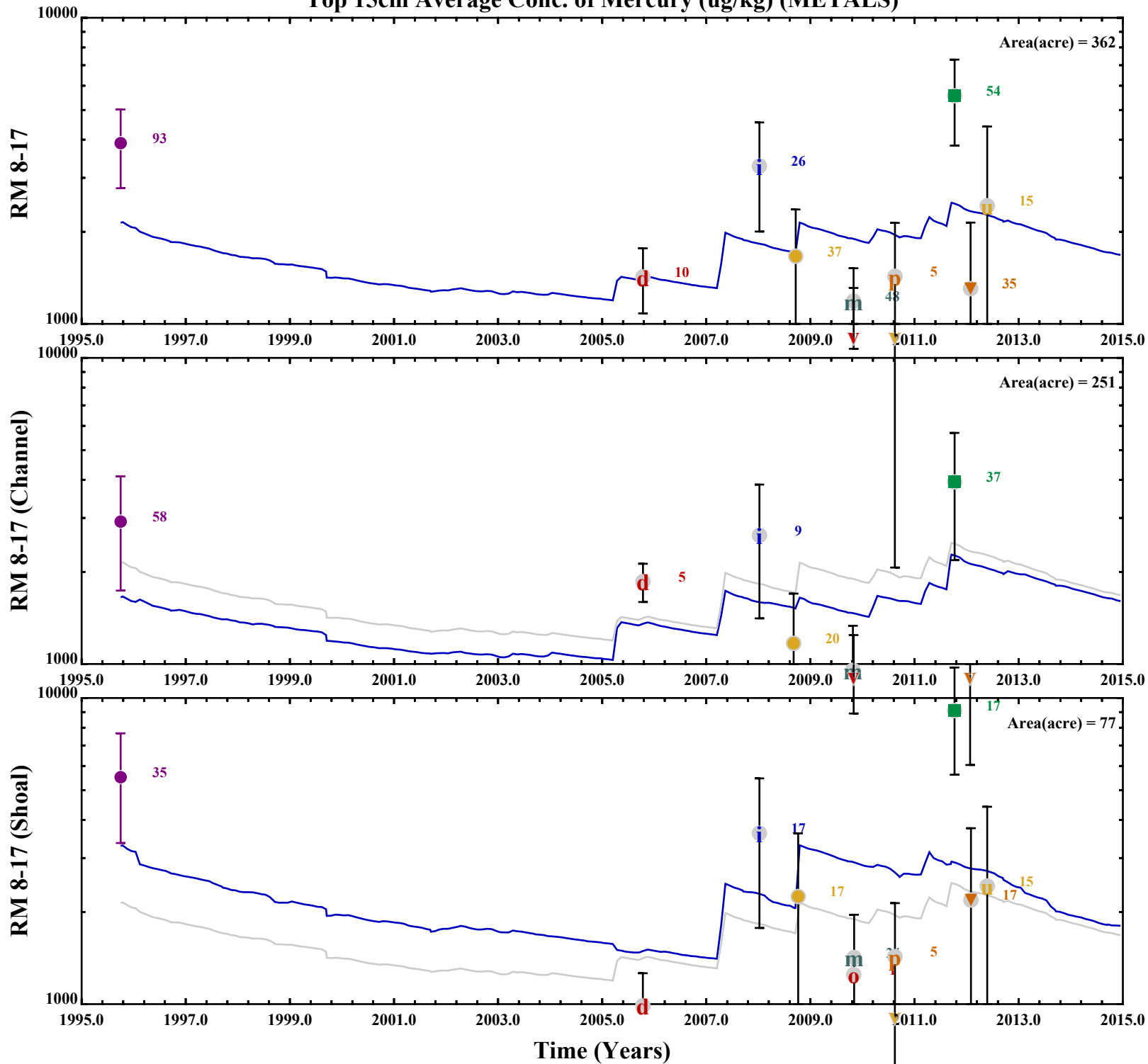
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
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- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

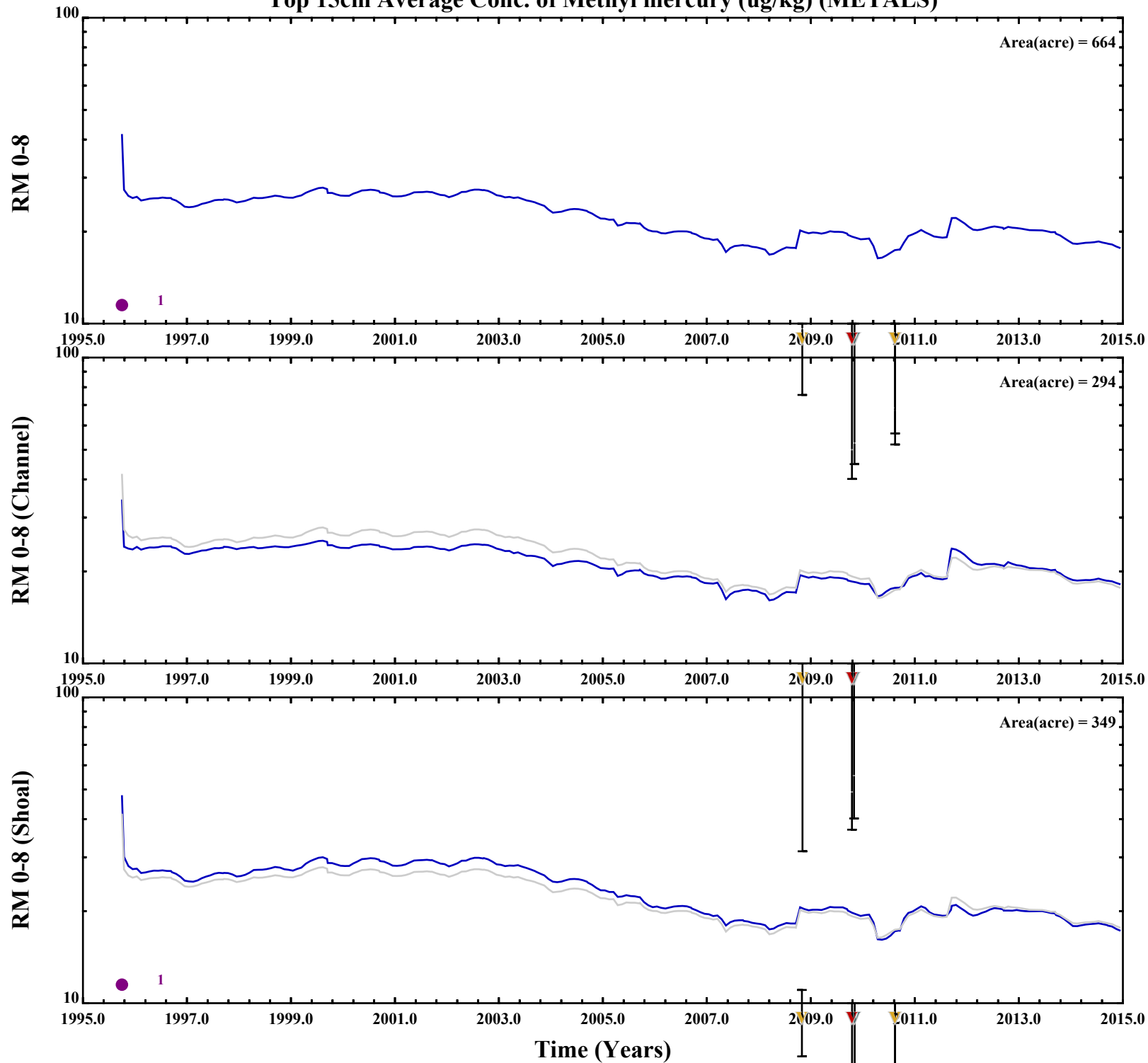
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
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- s 2012 CDMSmith LowRes Coring Supplemental
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- v 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)

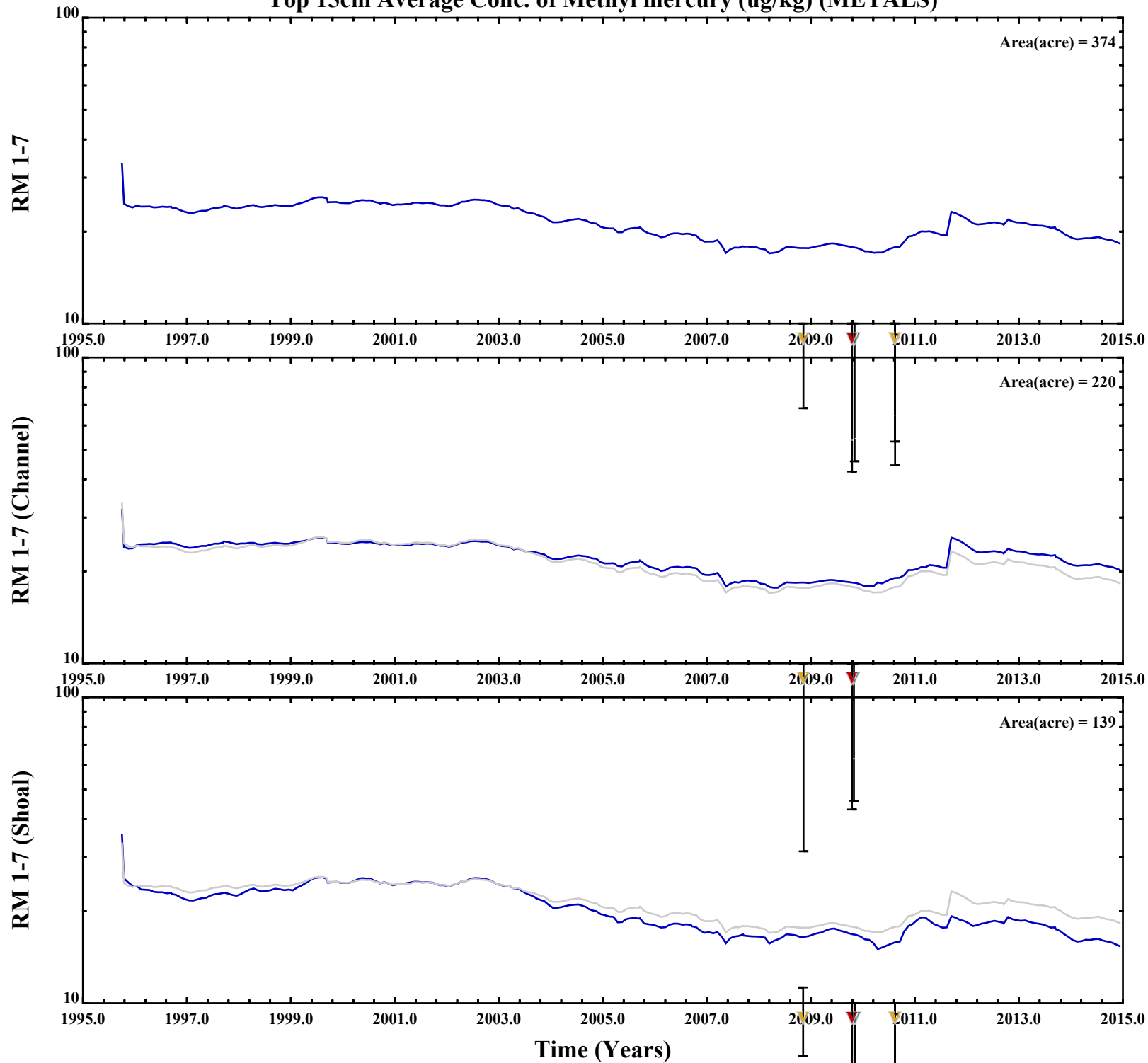


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
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- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



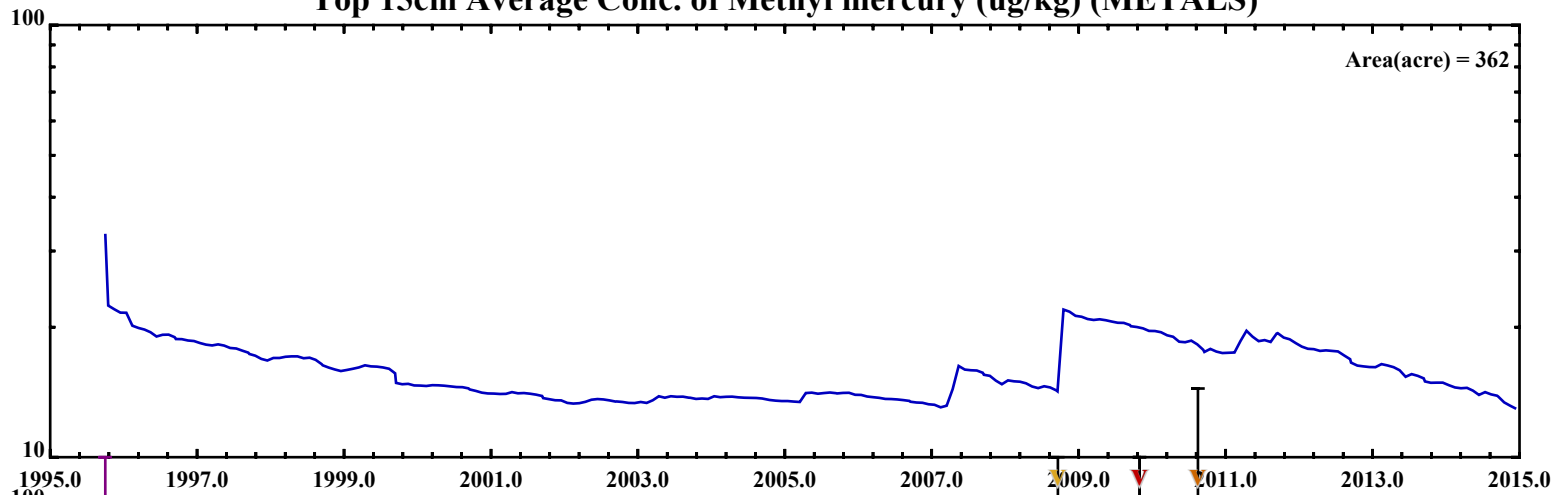
- Data used for ICs
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- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

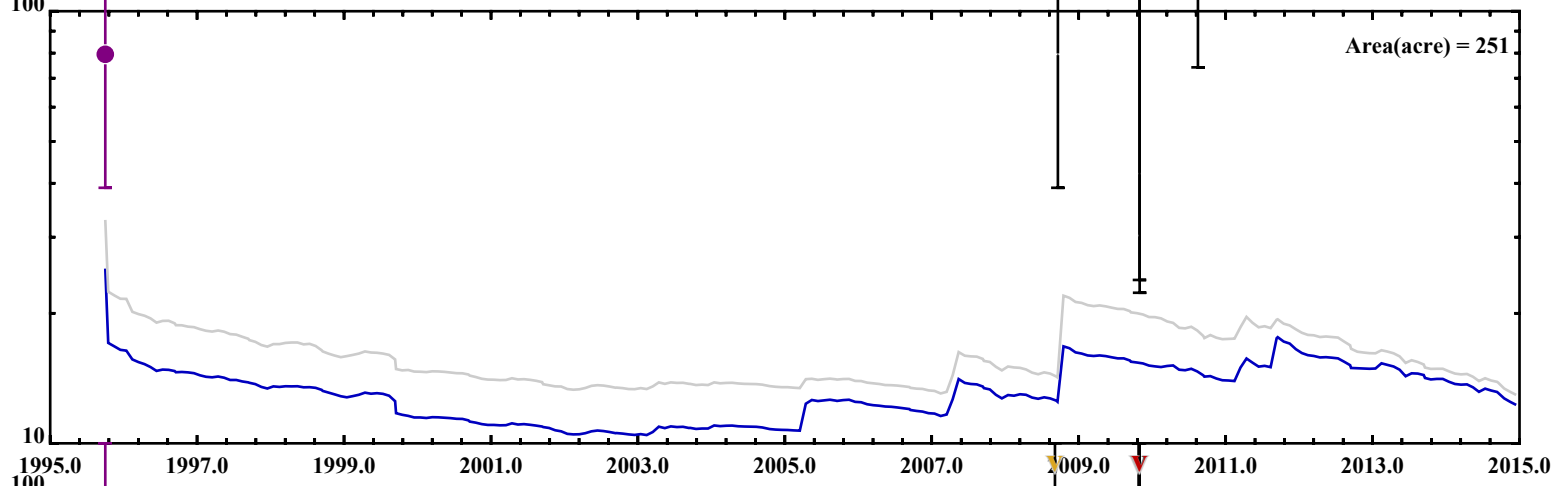
— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)

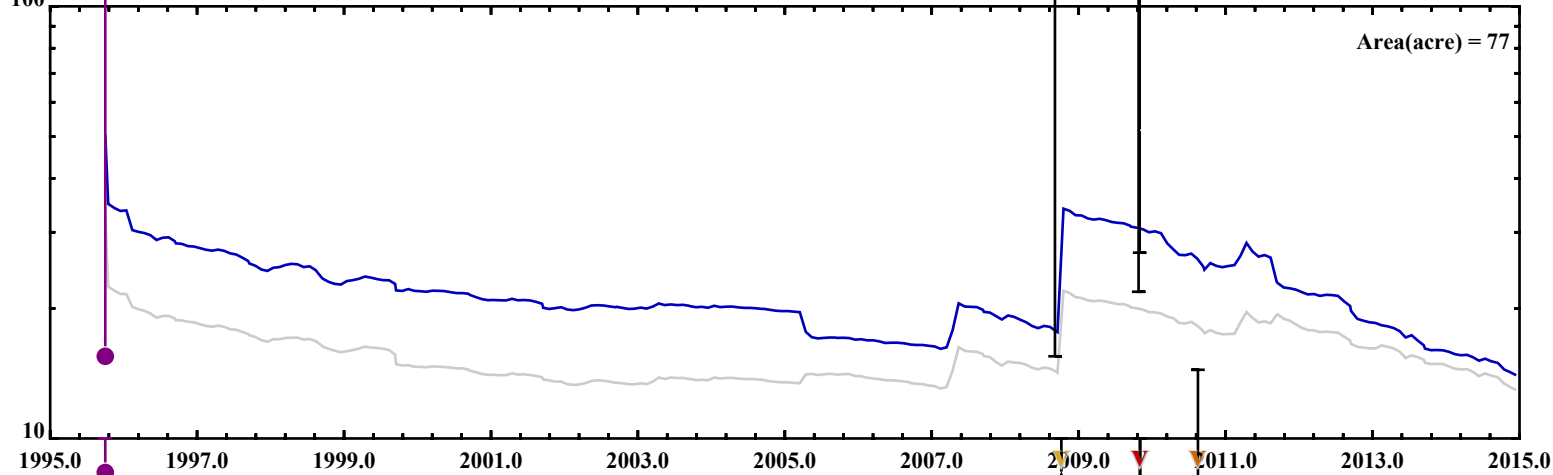
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)



Time (Years)

- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
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- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
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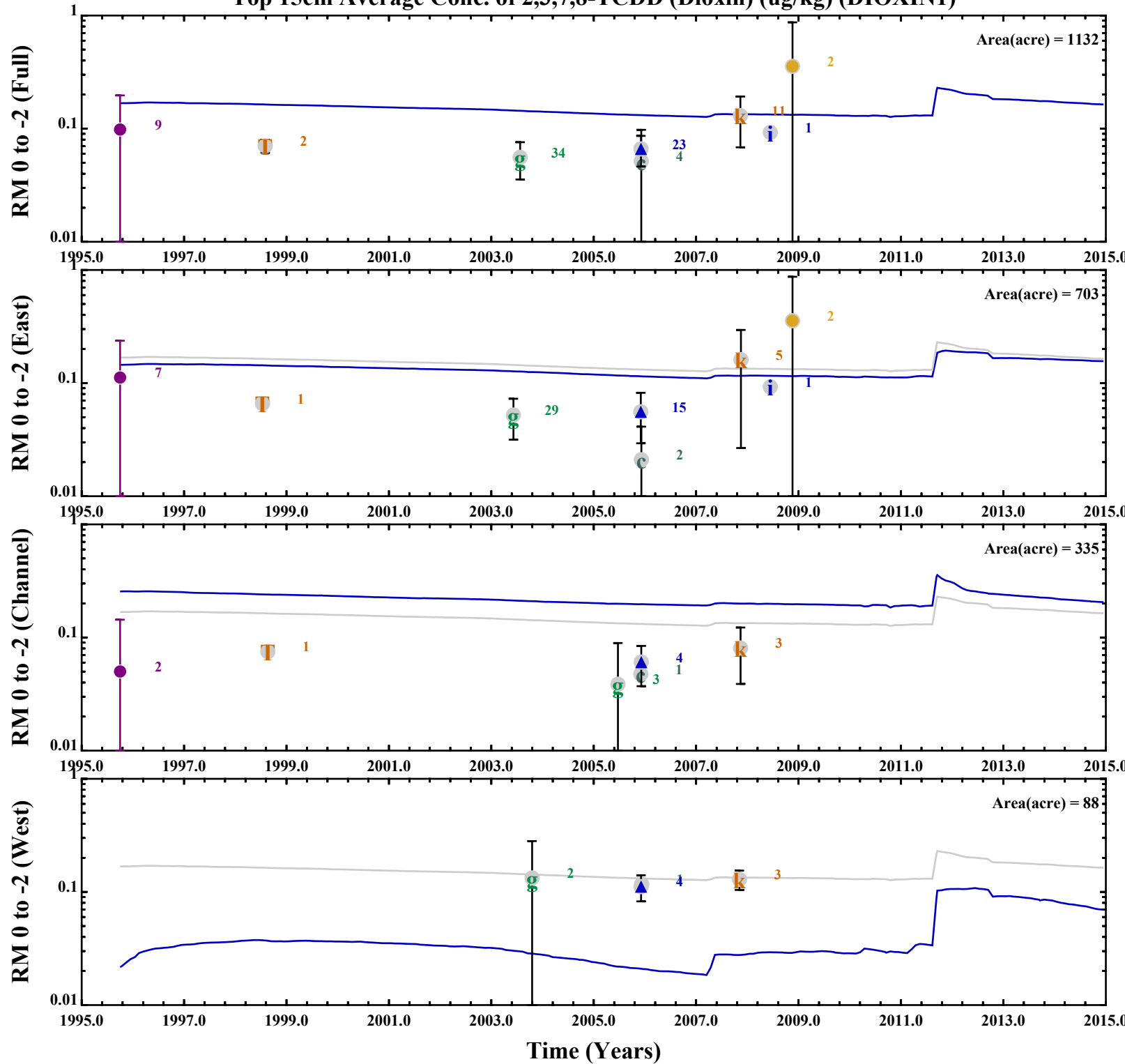
**Attachment C-2**

**Newark Bay Surface Sediment Reach**

**Average Time Series Calibration**



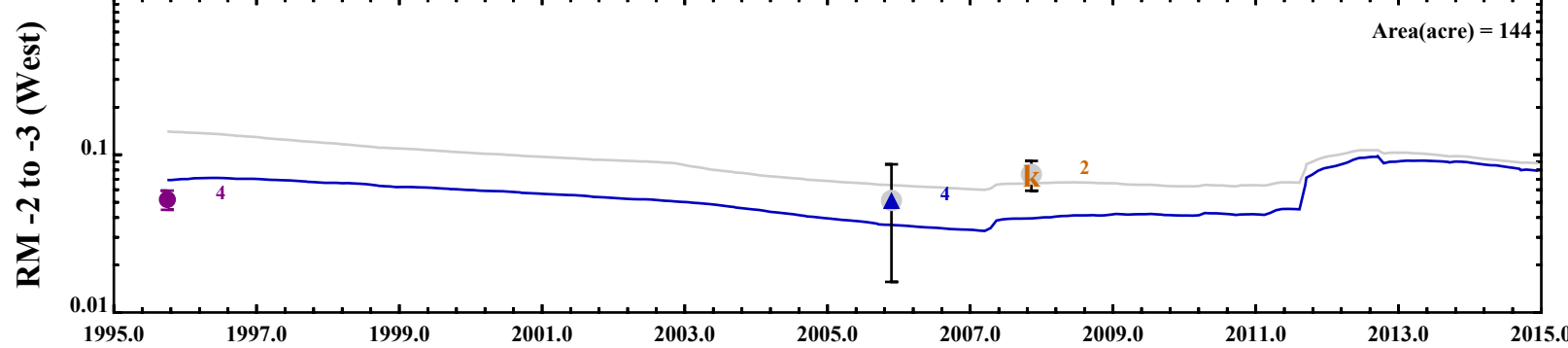
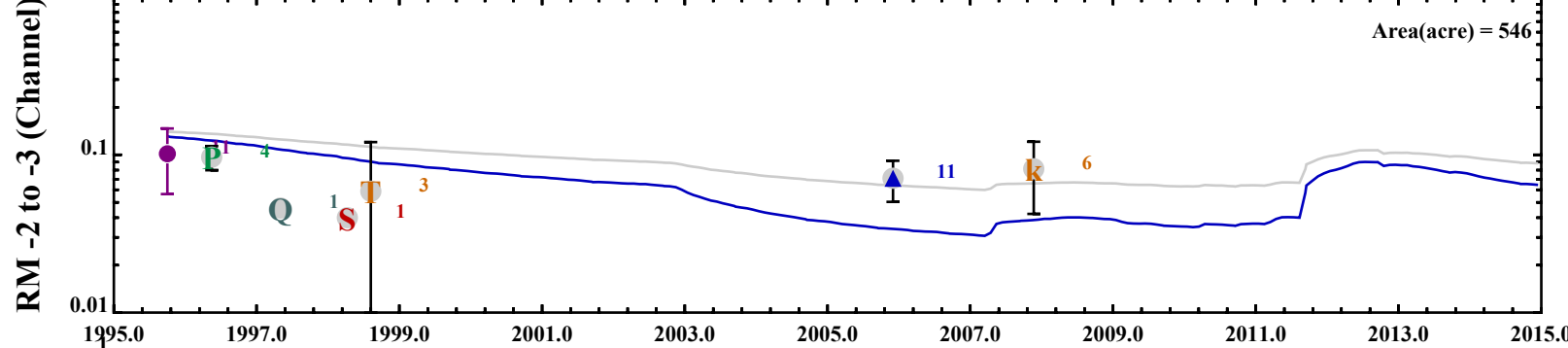
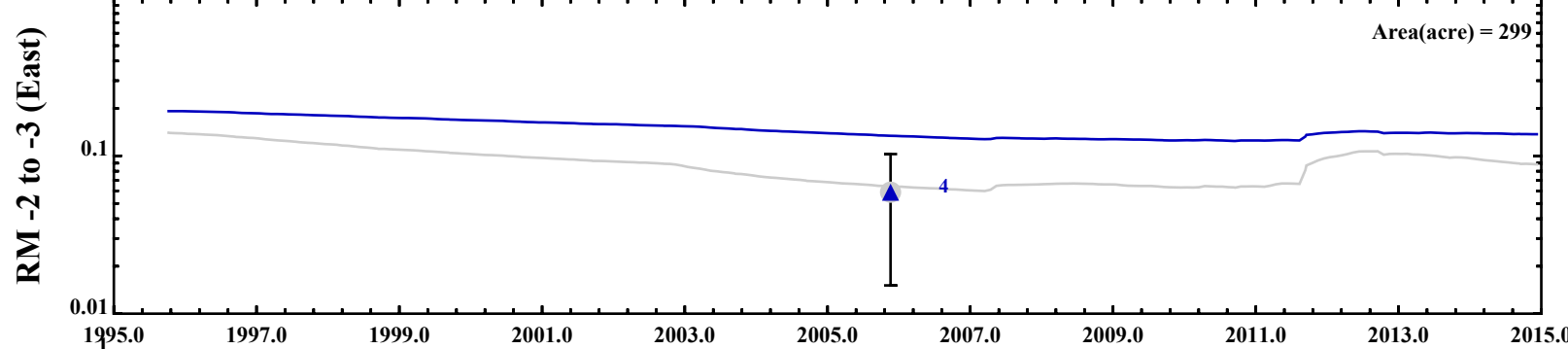
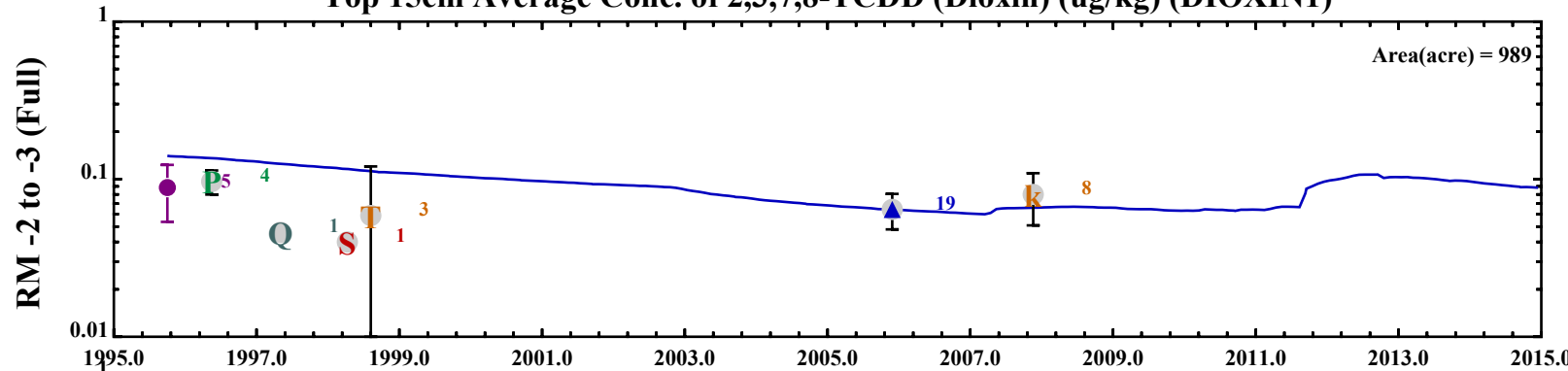
# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
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- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)

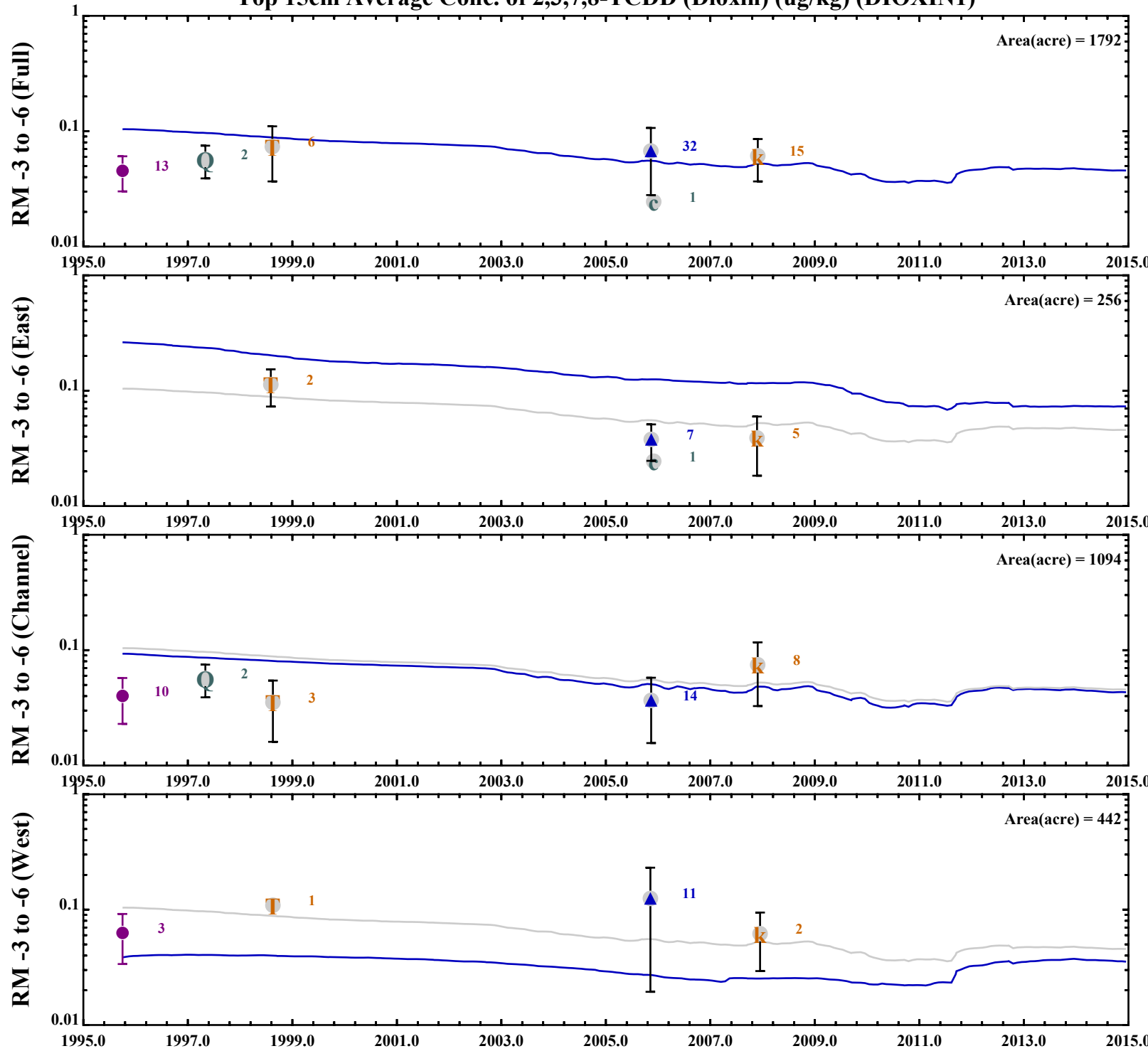


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- 1991 Core Sediment Investigation
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- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

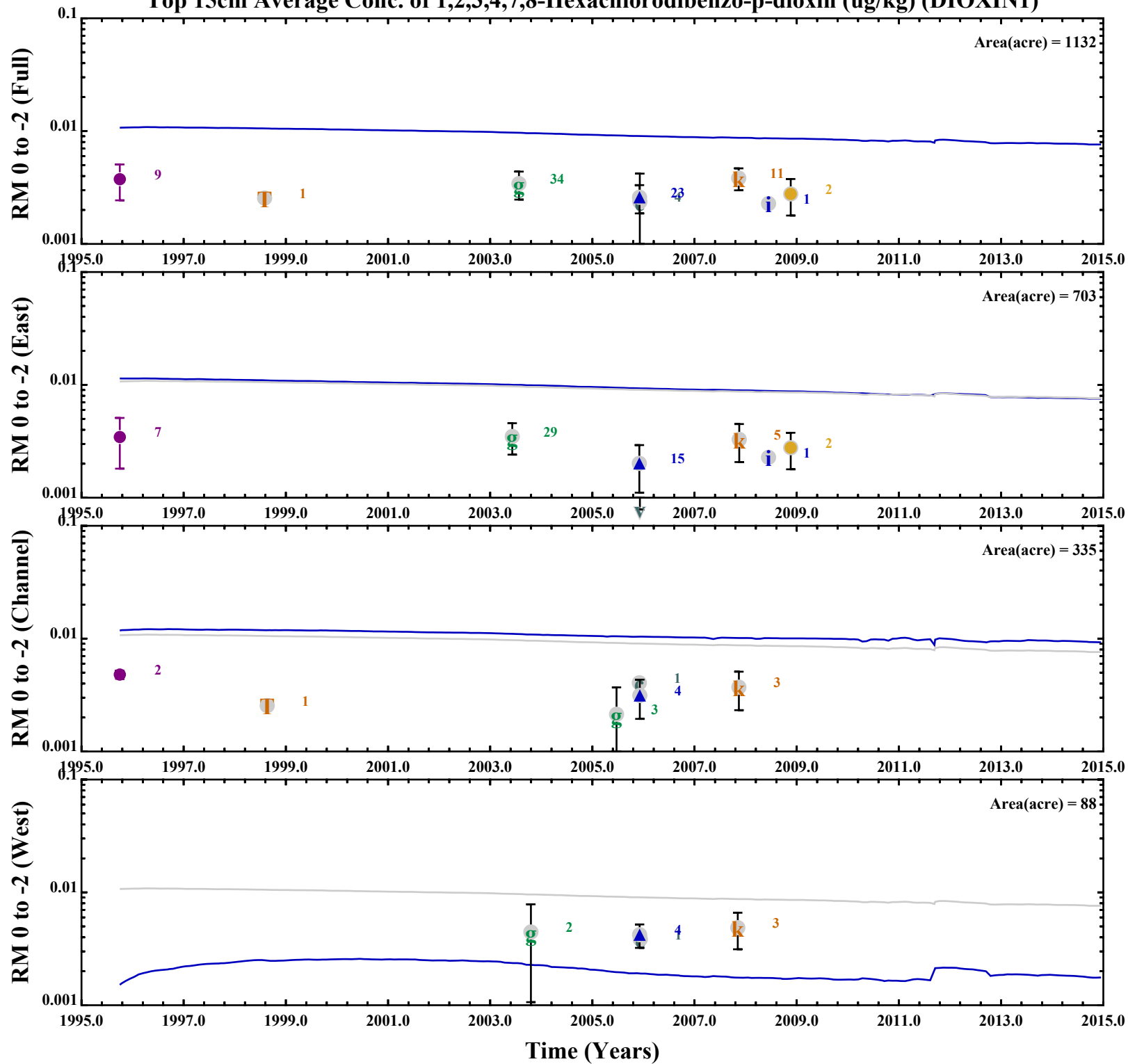
# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- 1992 Core Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

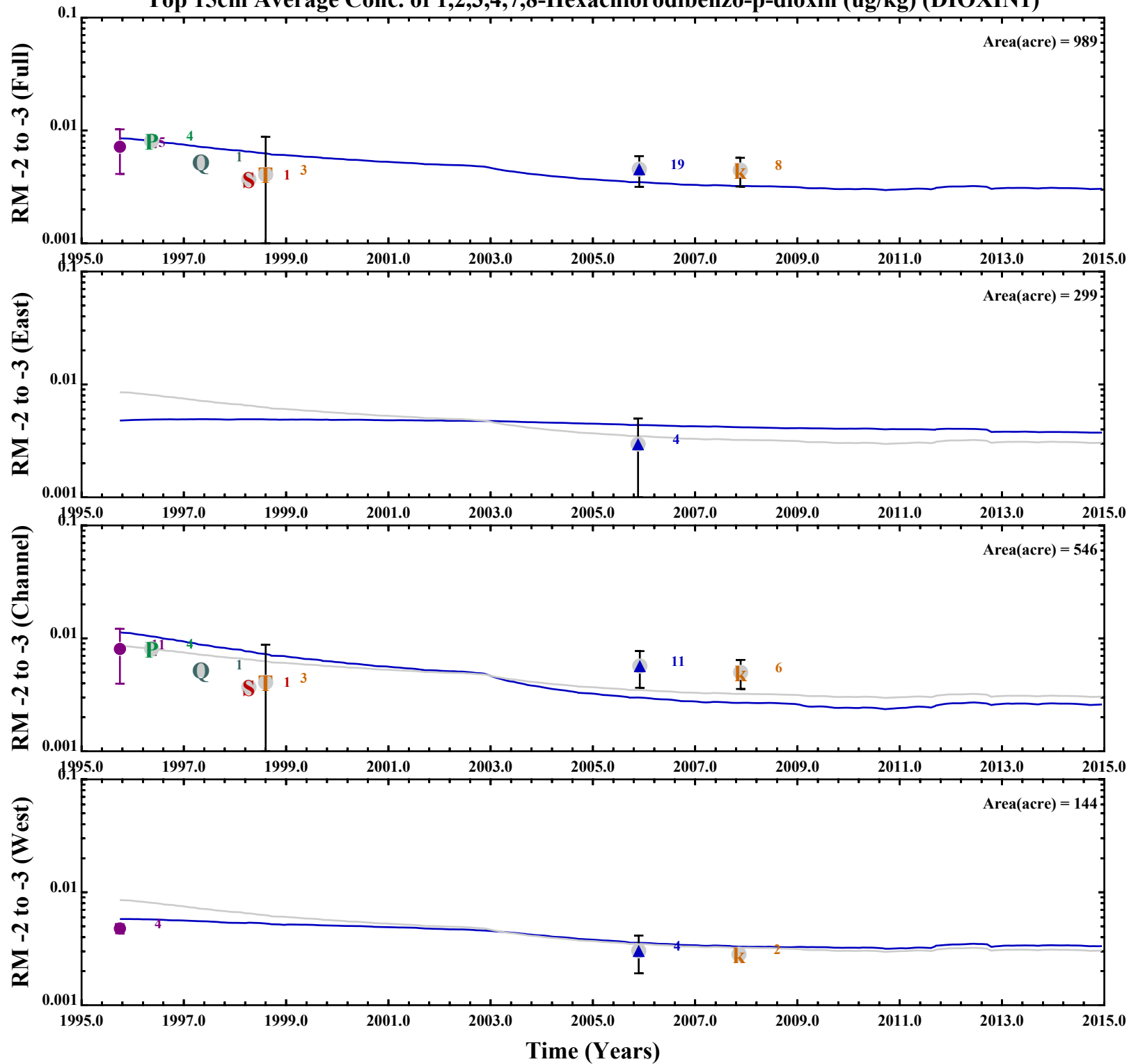
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
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- d 2005 USEPA-MPI High Res Sediment Core
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- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

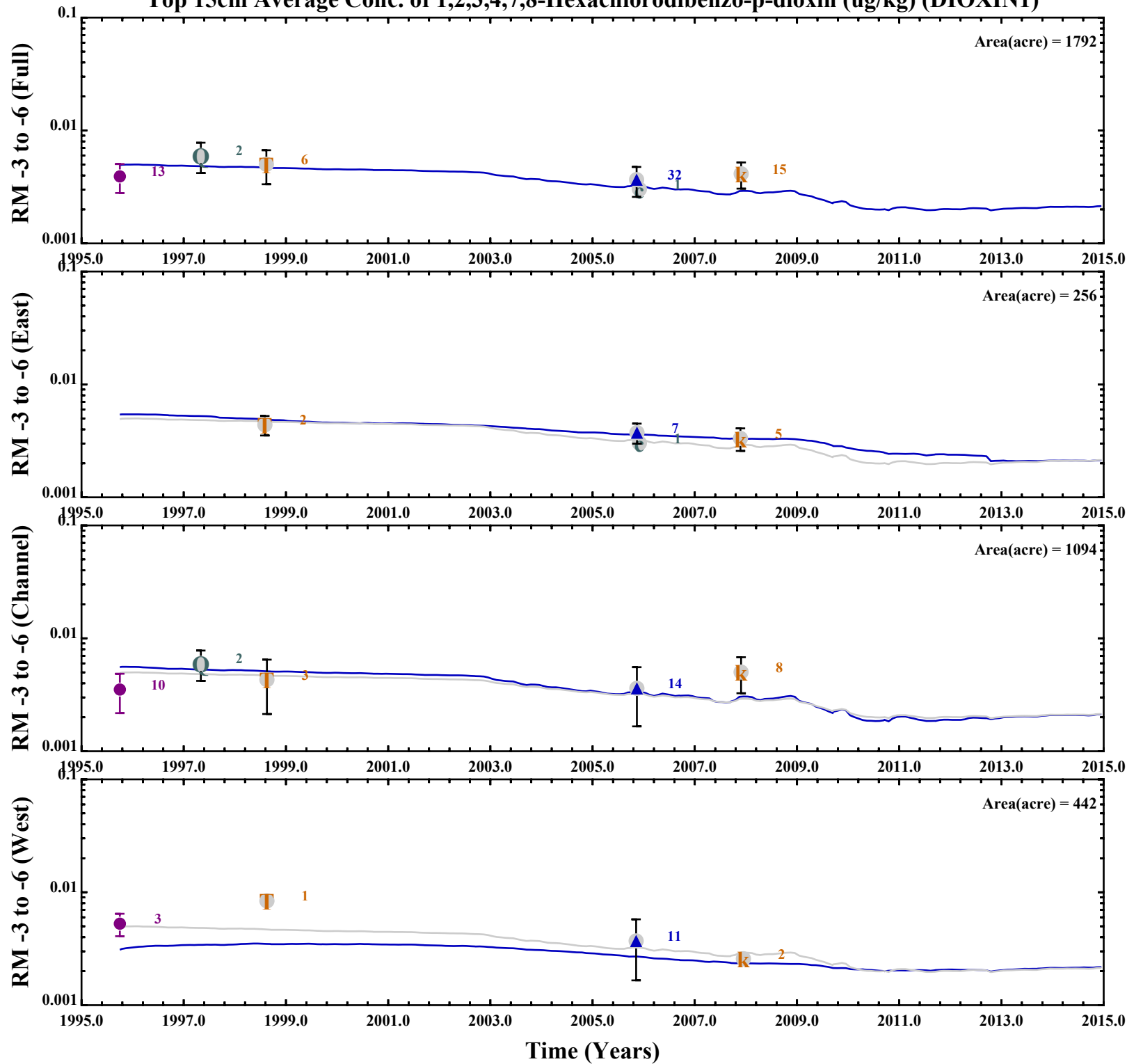


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

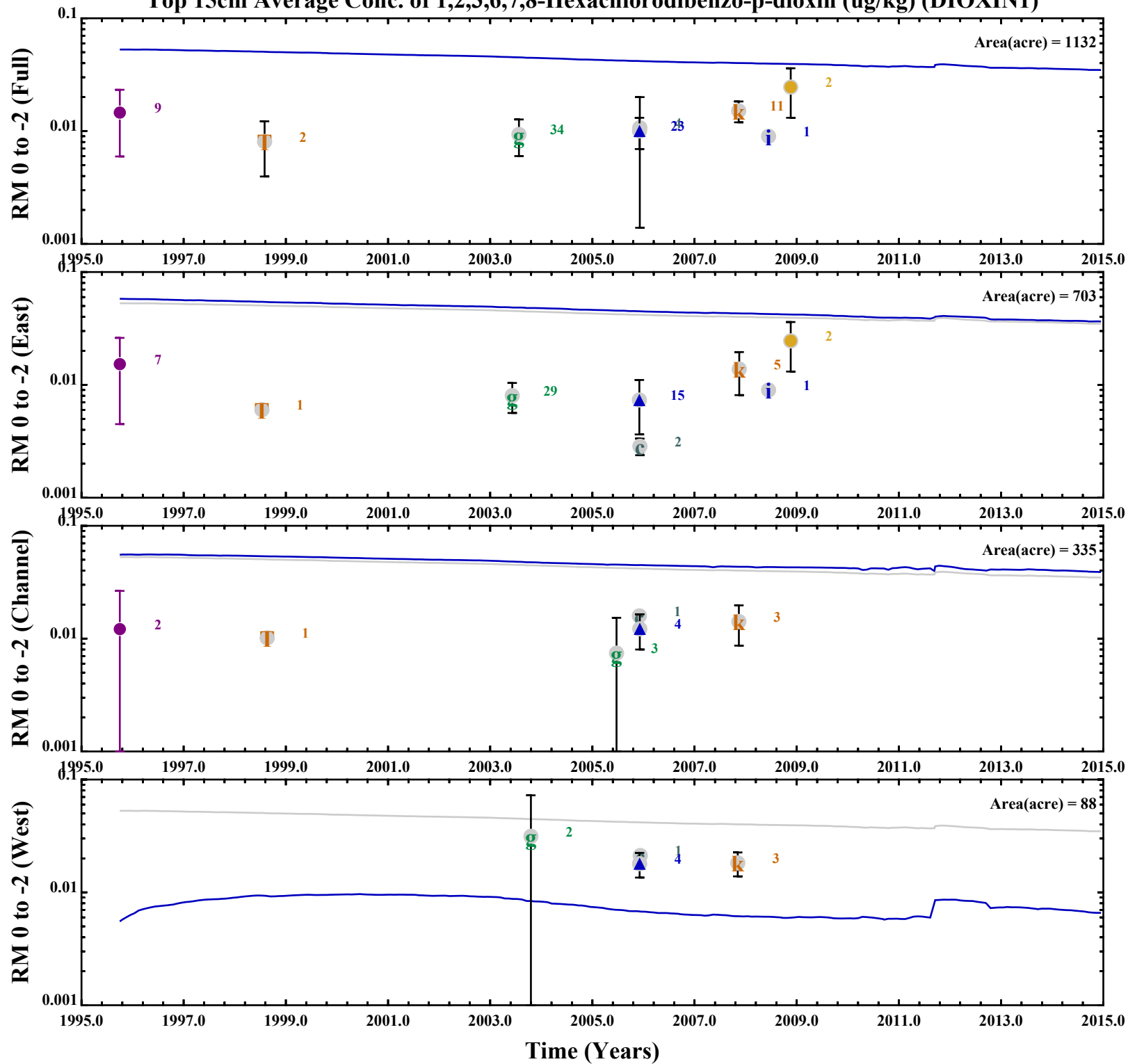
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

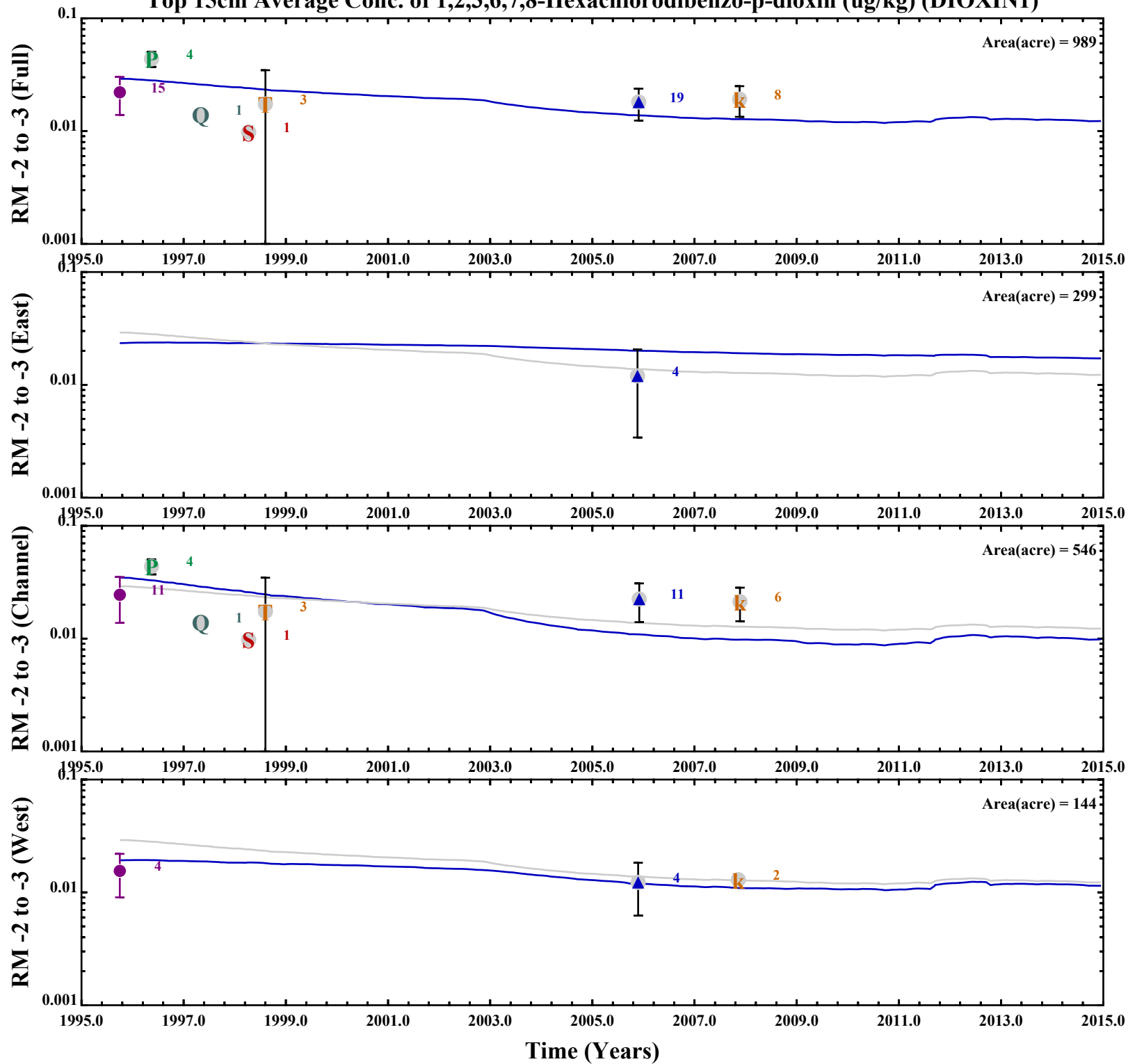
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



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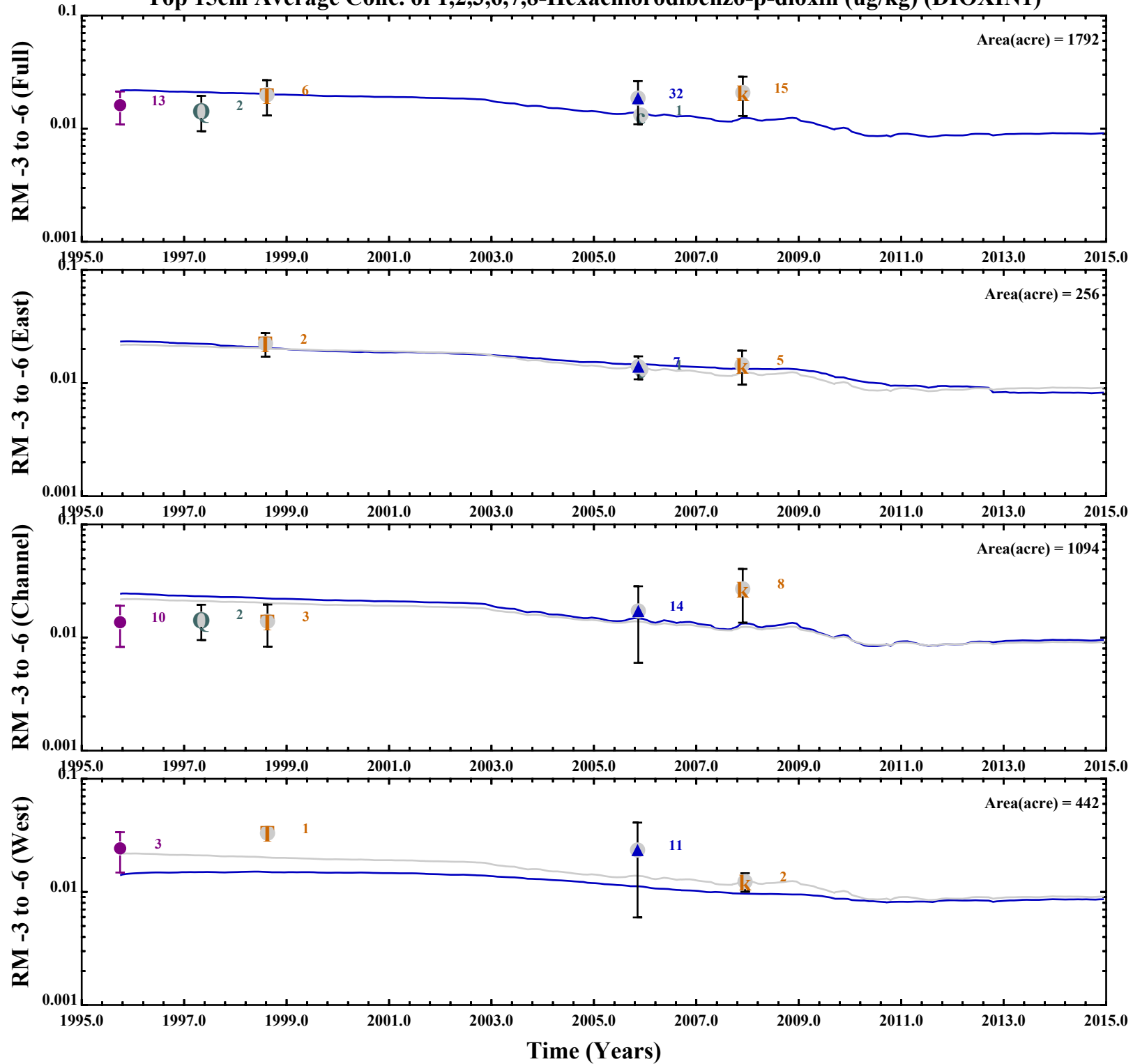


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— No Action Gradient IC, Reach Scale Up  
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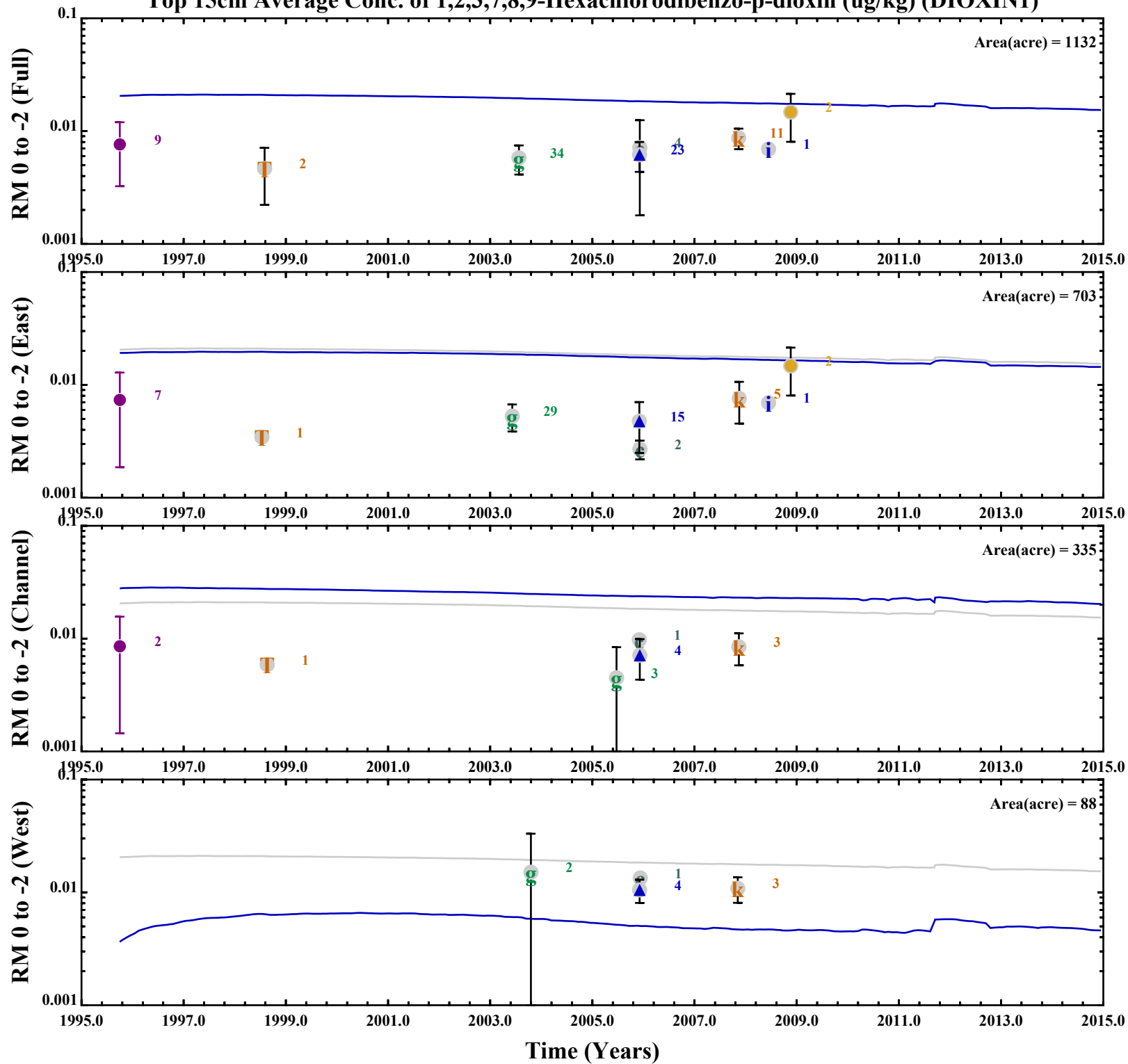
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— No Action Gradient IC, Reach Scale Up  
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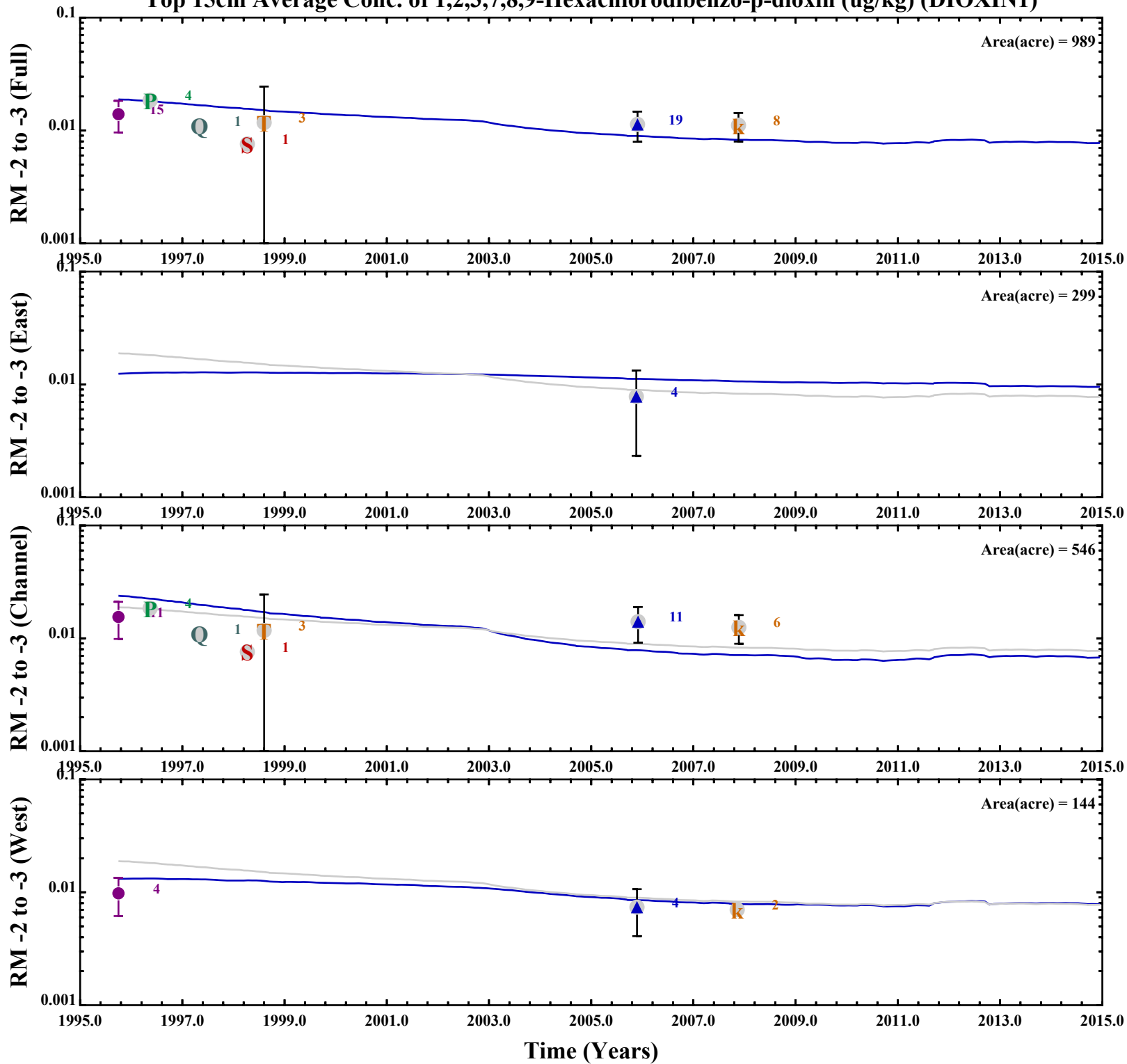
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
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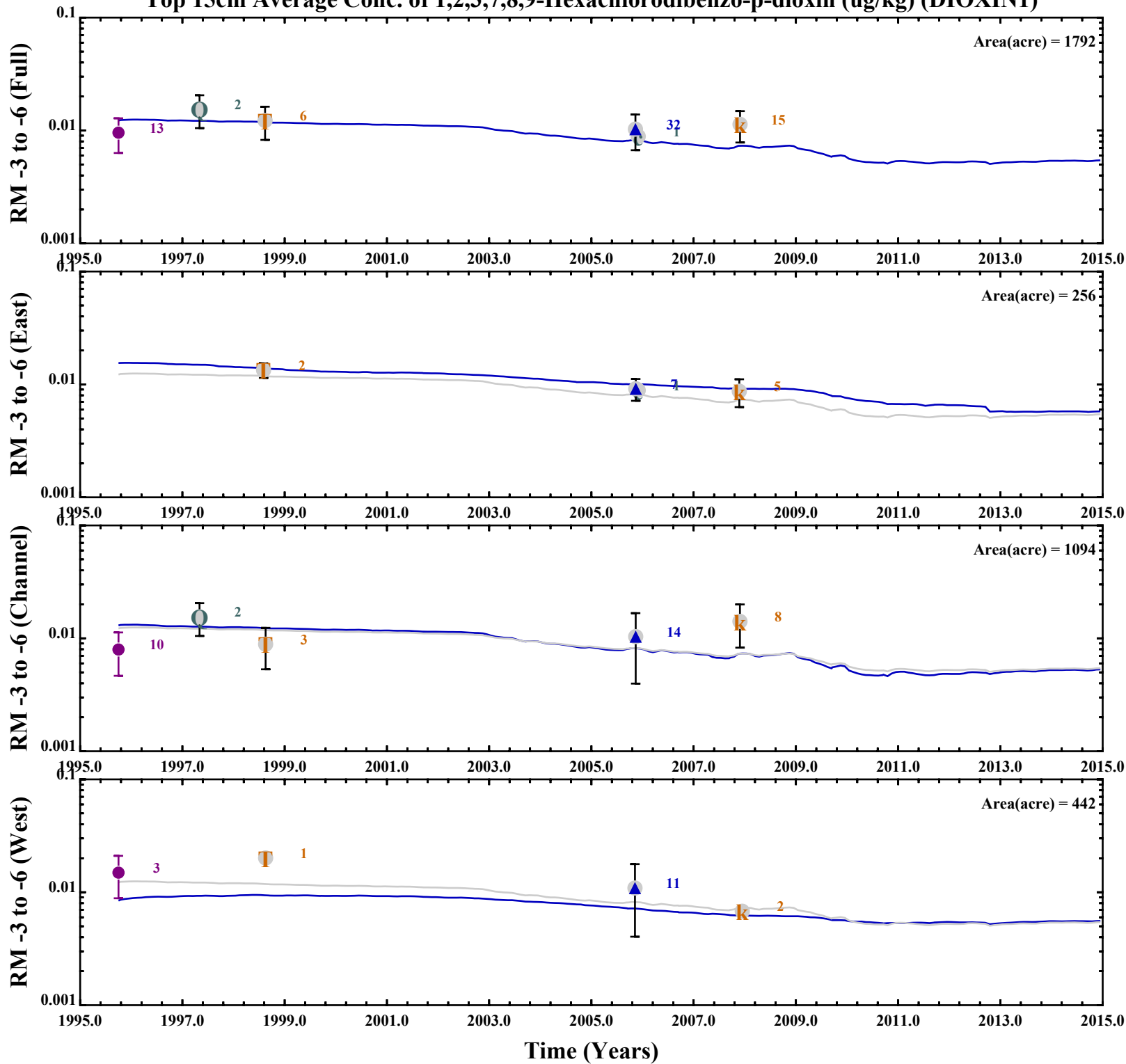
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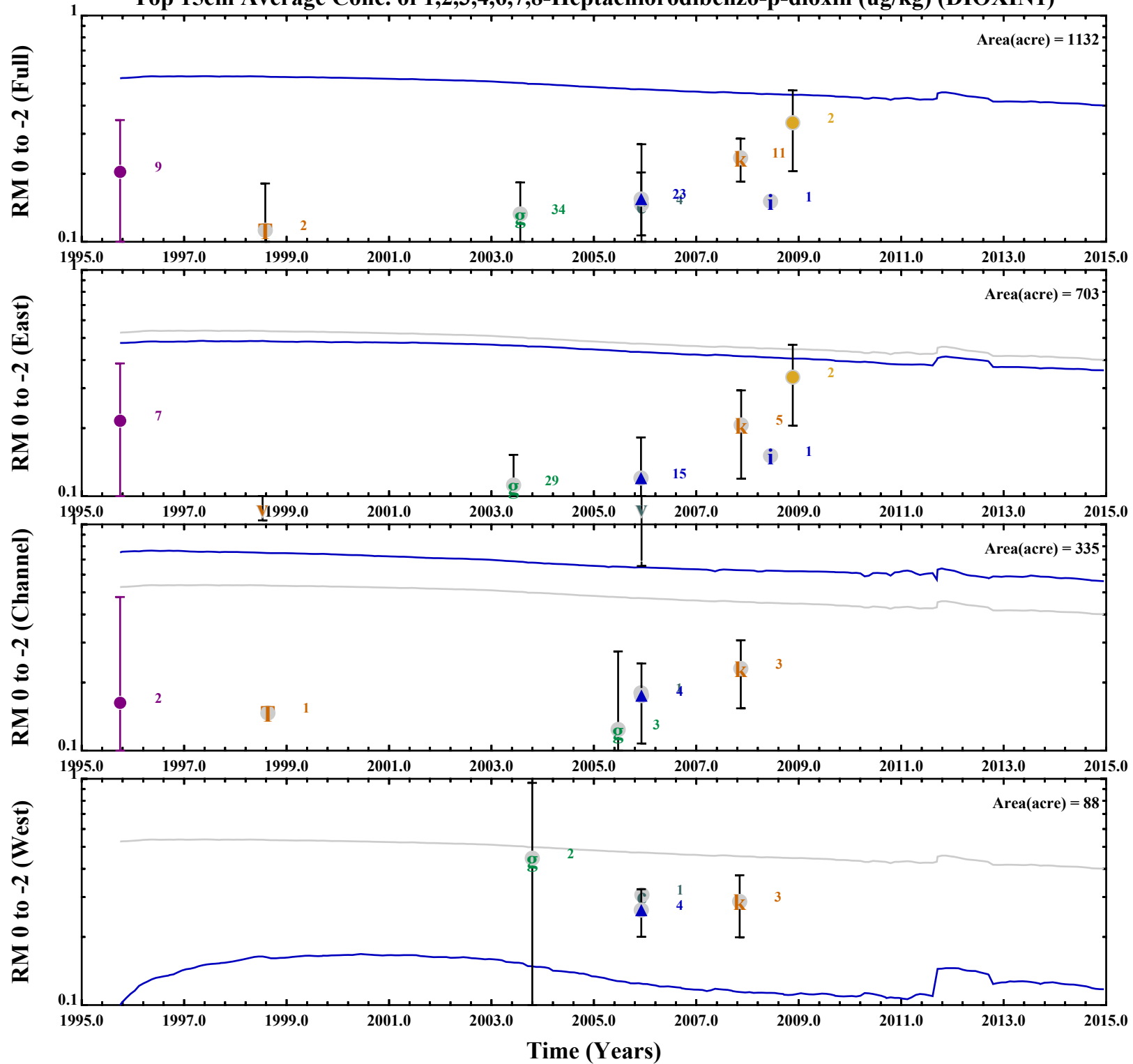
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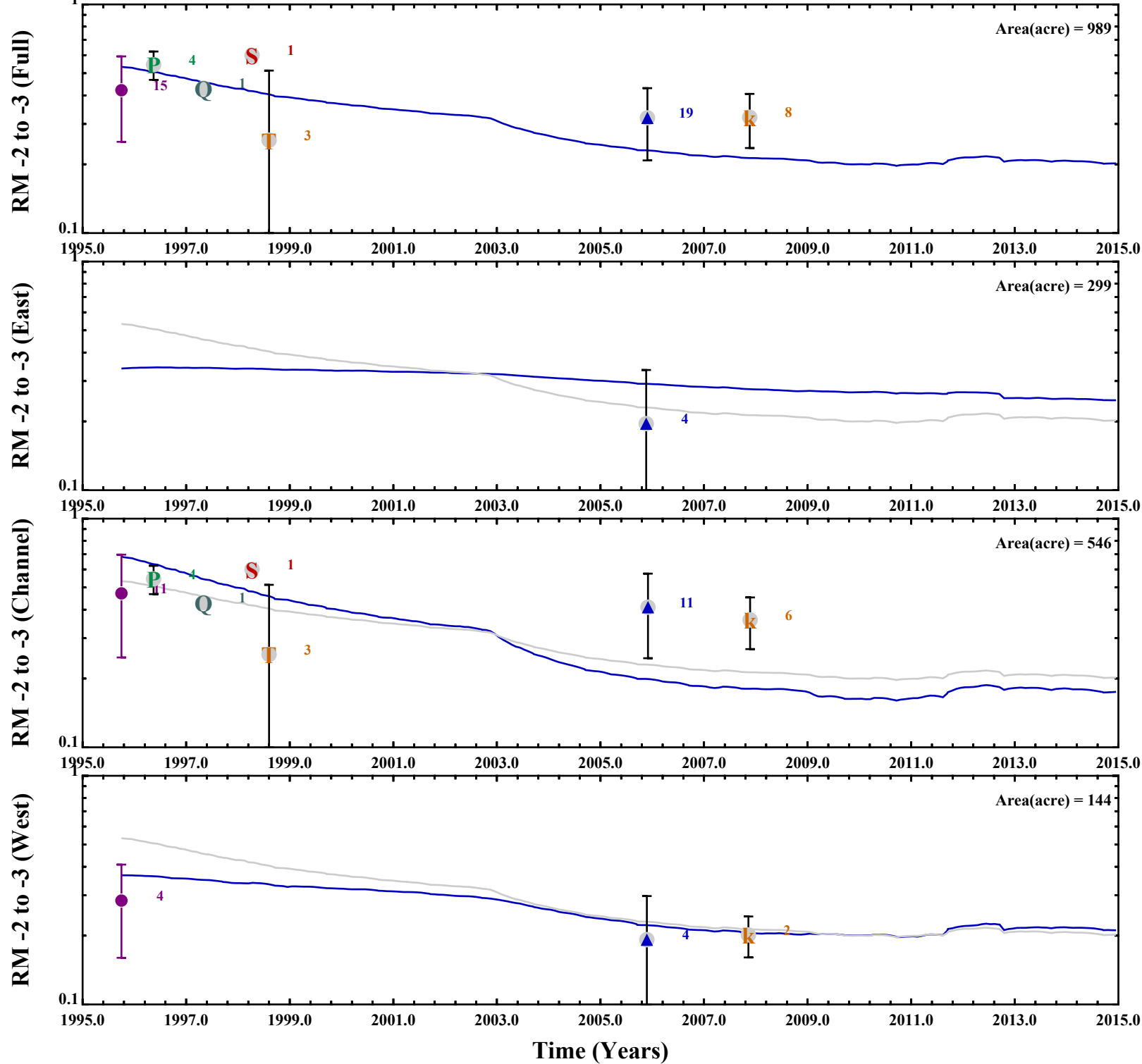
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



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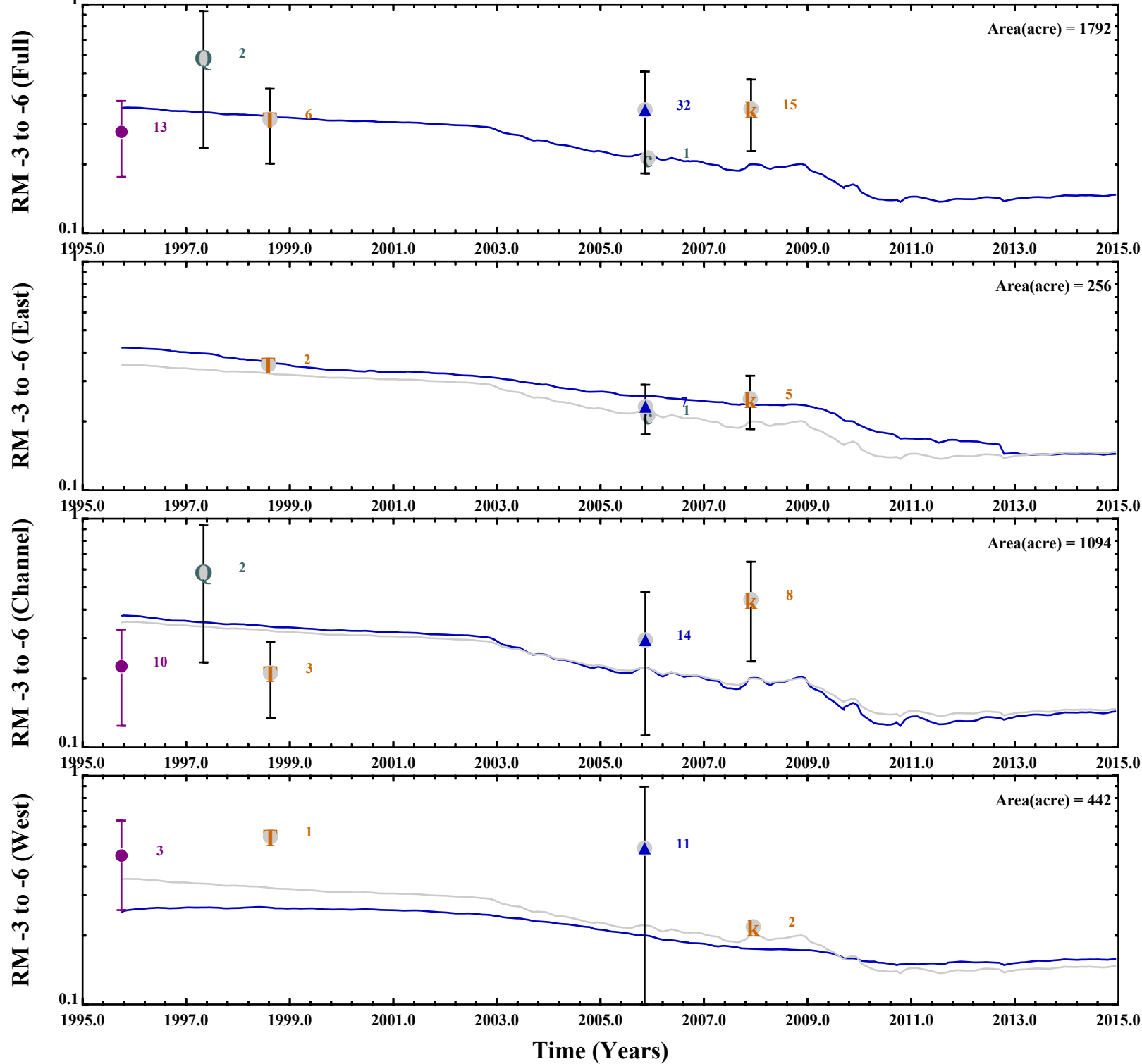
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— No Action Gradient IC, Reach Scale Up  
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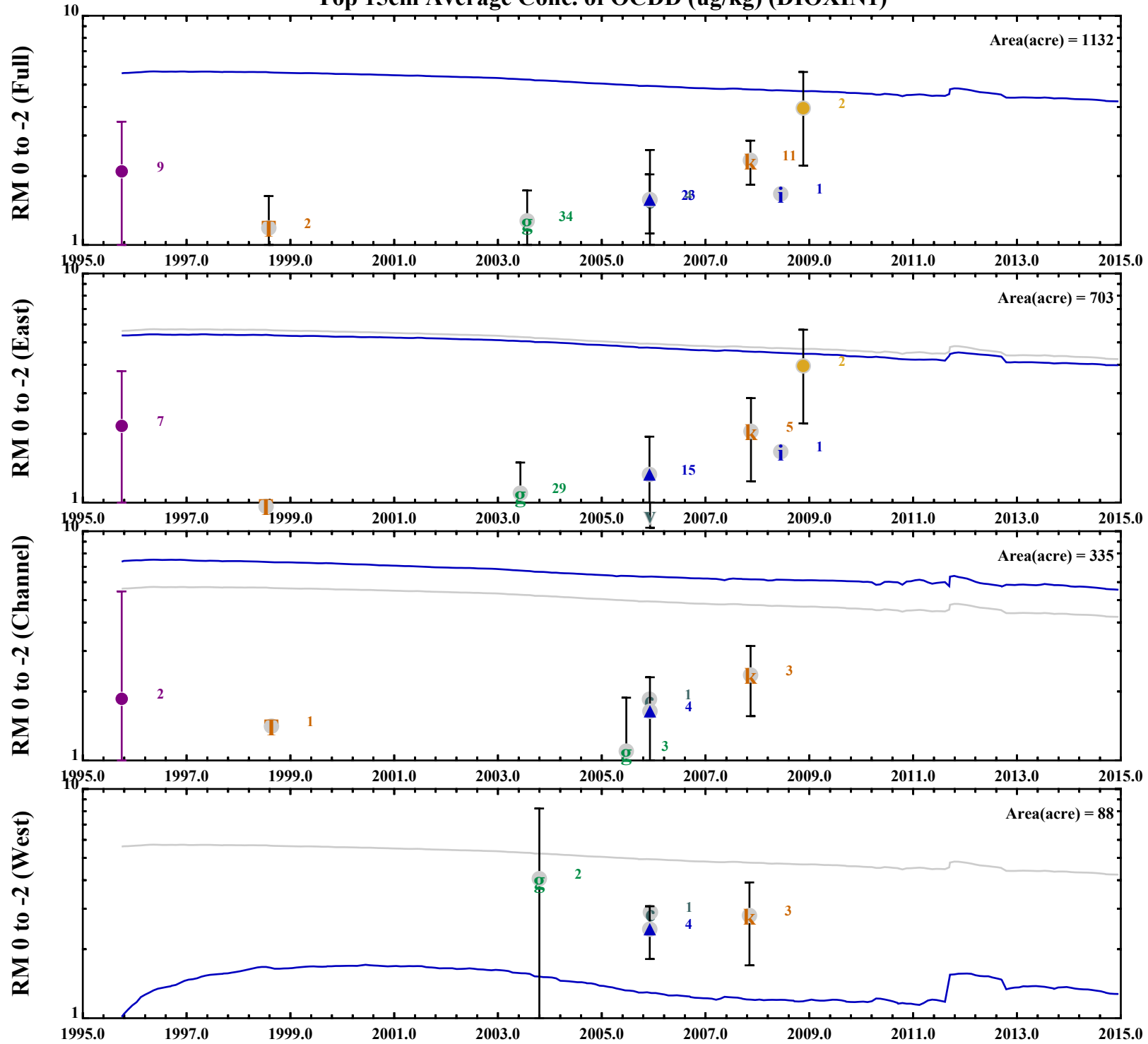
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- 2010 USEPA-CDM Benthic Oversight
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- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

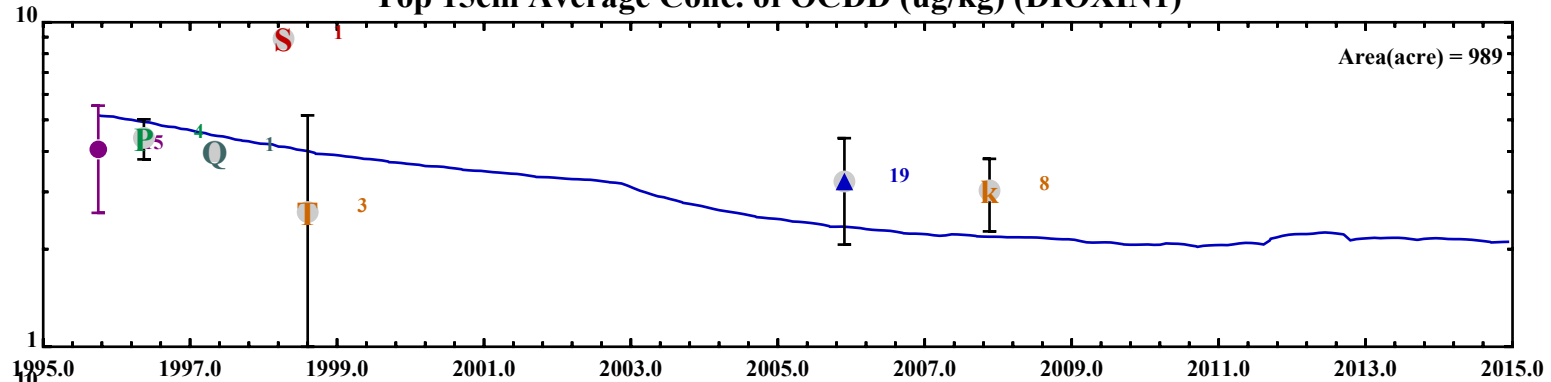
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

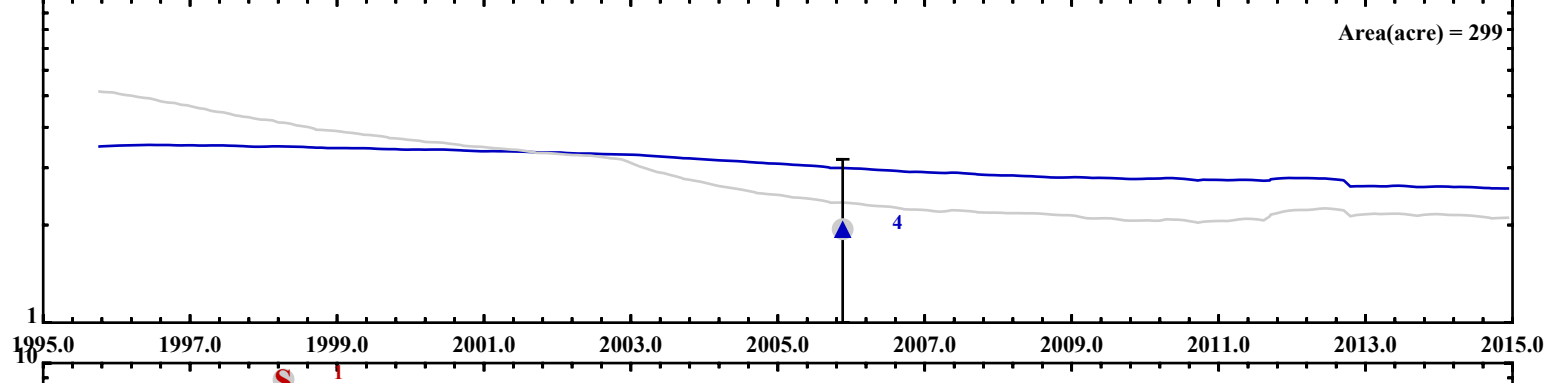


# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

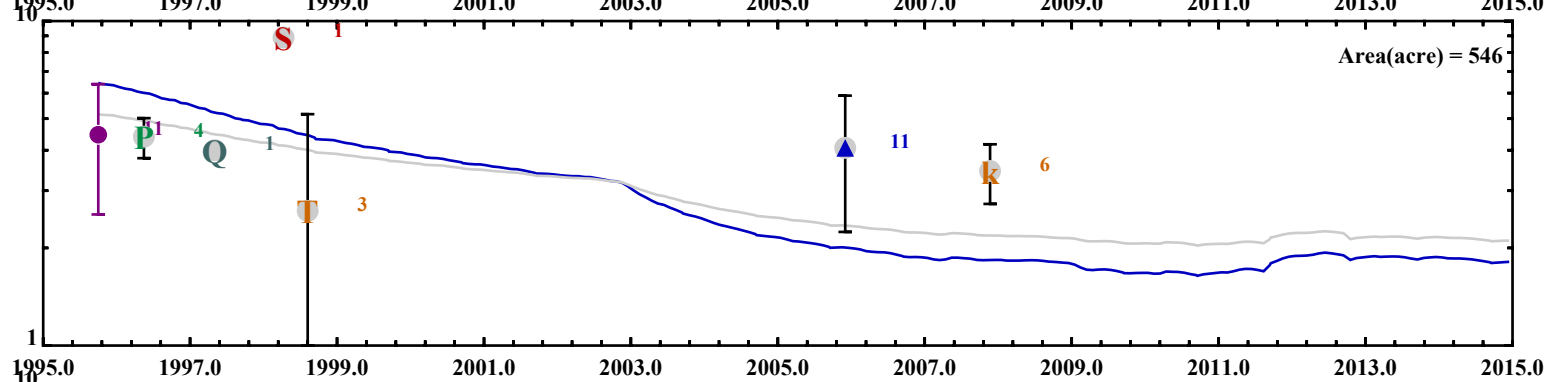
RM -2 to -3 (Full)



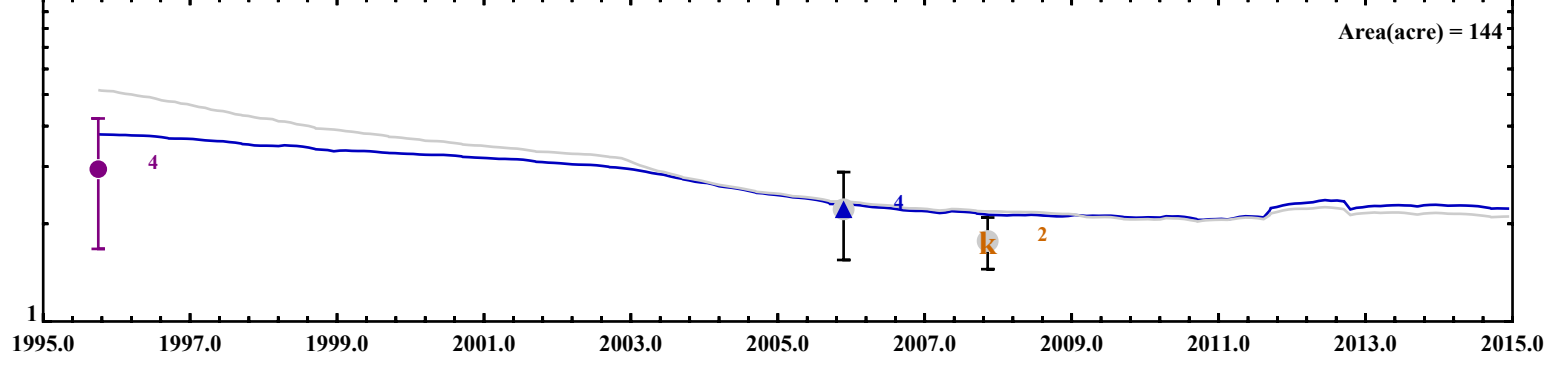
RM -2 to -3 (East)



RM -2 to -3 (Channel)



RM -2 to -3 (West)

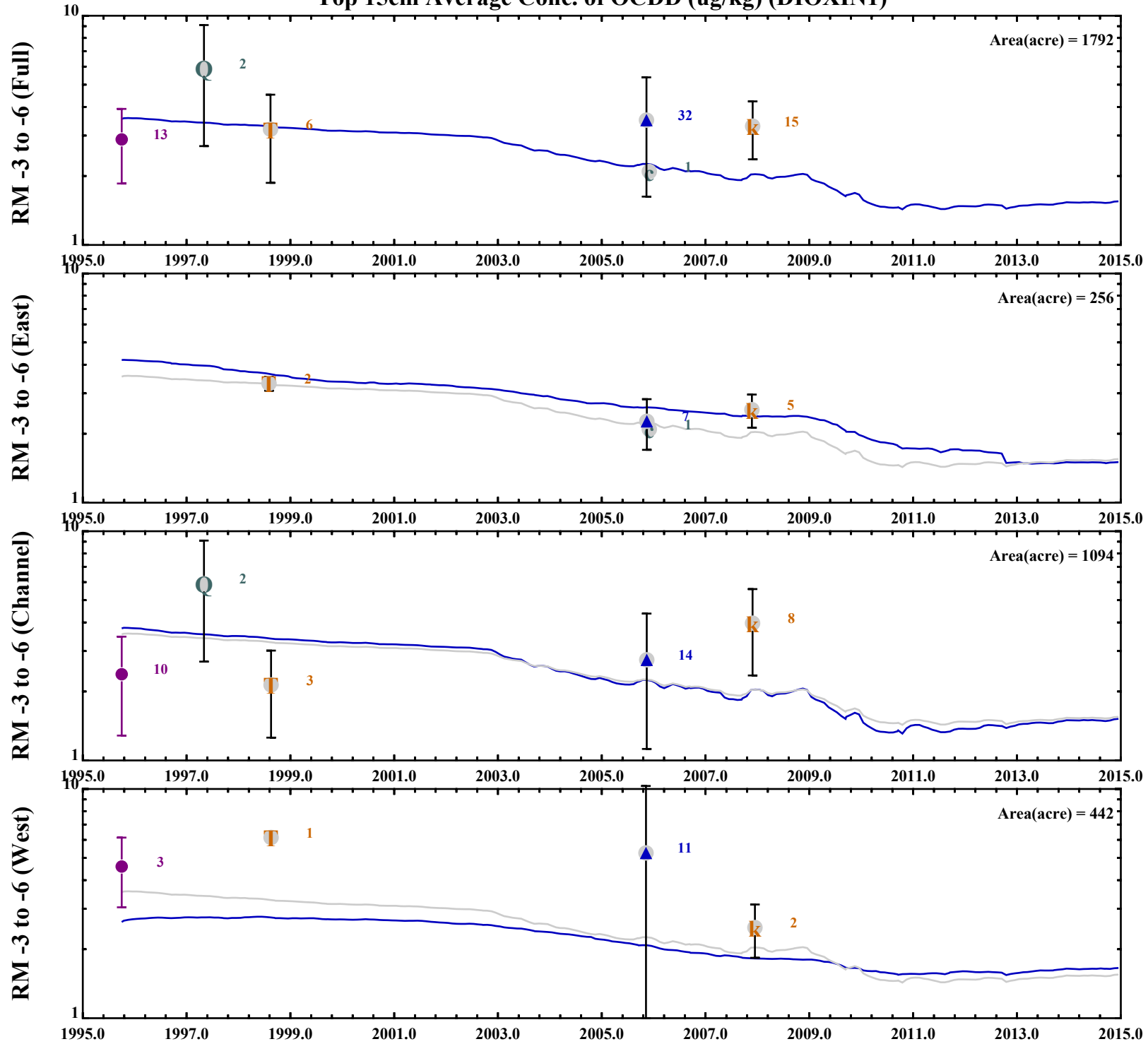


- Data used for ICs
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- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

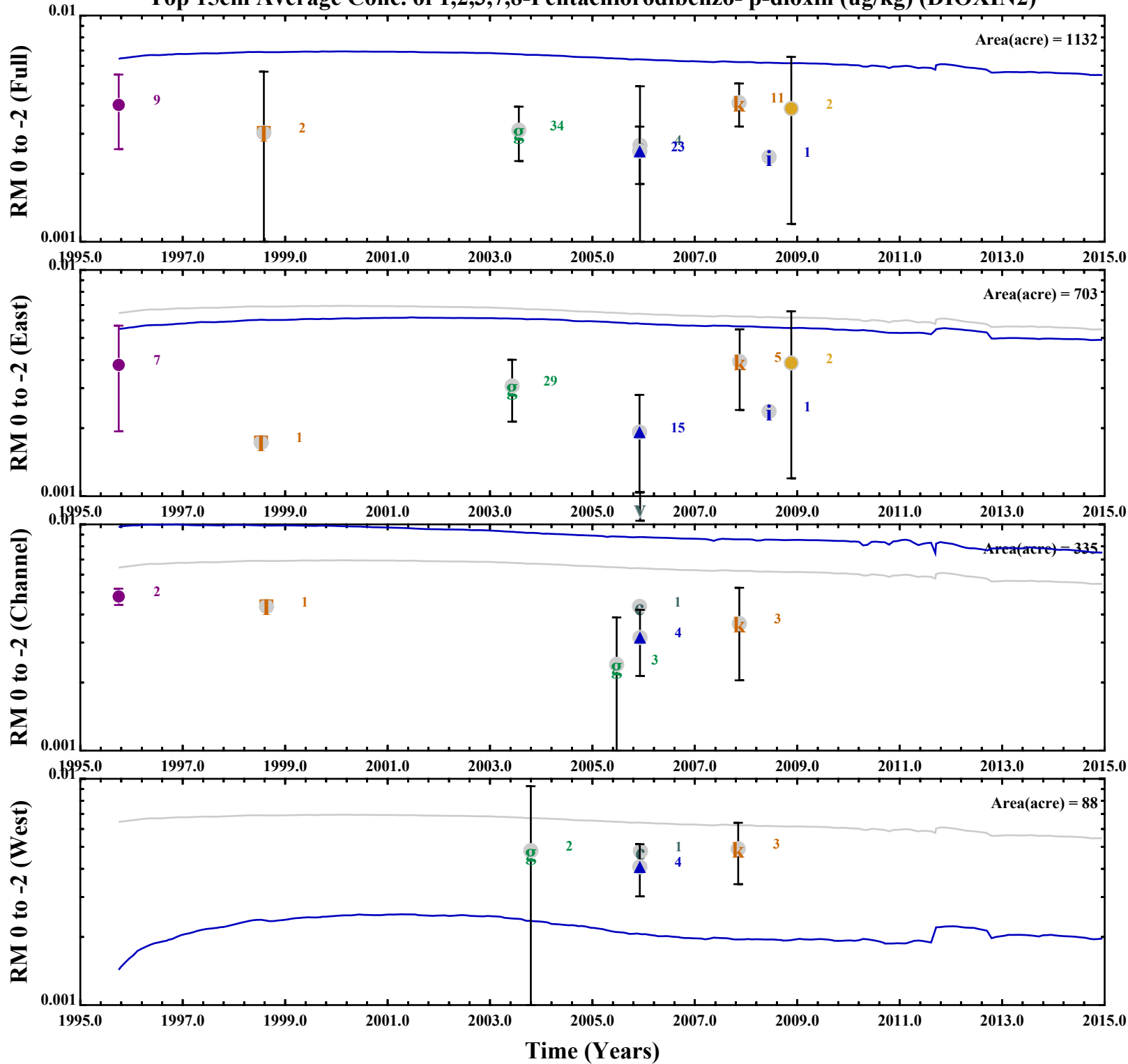


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- E 1992 Core Sediment Investigation
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- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
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- q 2010 USEPA-CDM Benthic Oversight
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

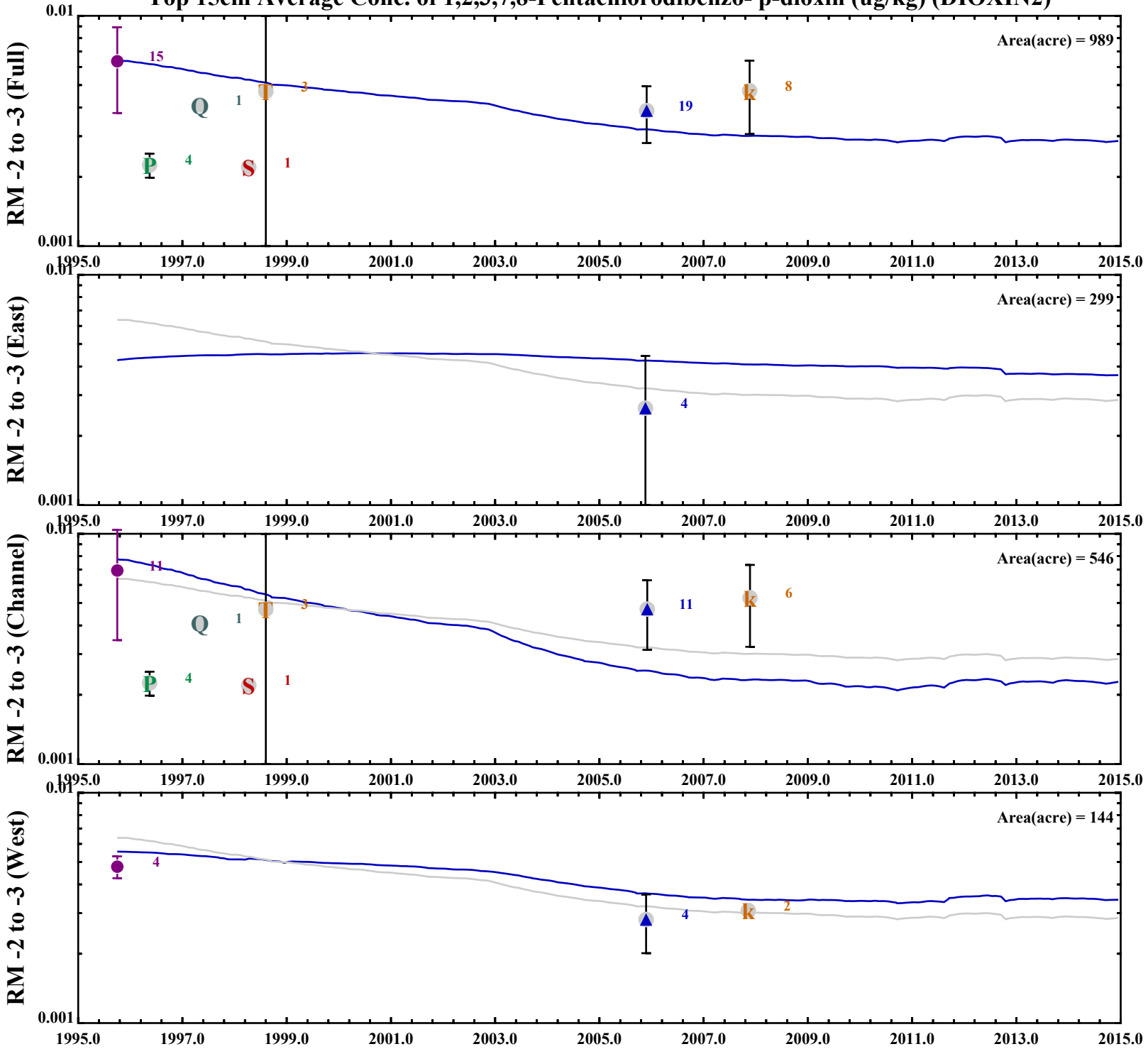
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)

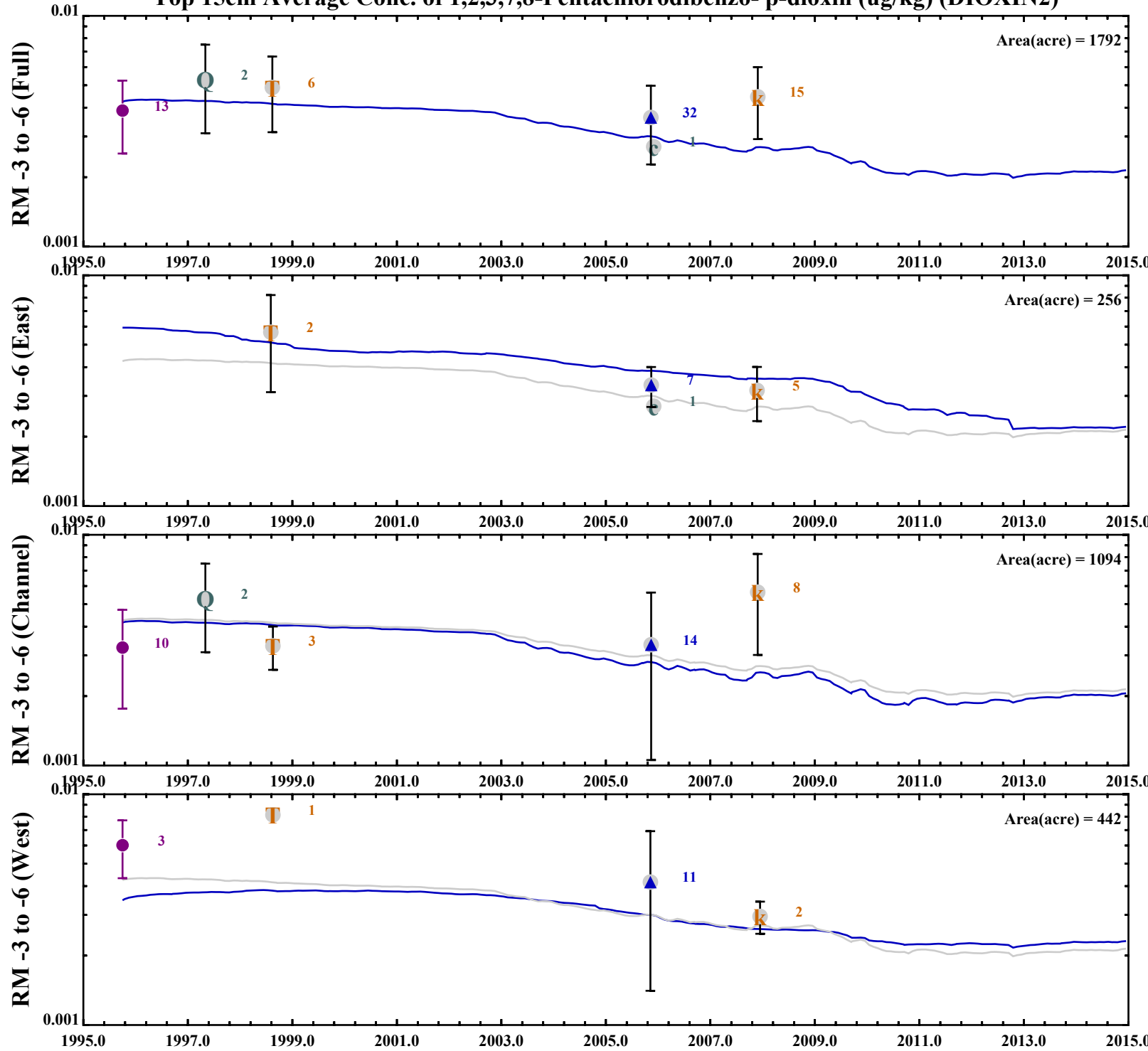


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- 1993 Core Sediment Investigation - 01 (March)
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- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)

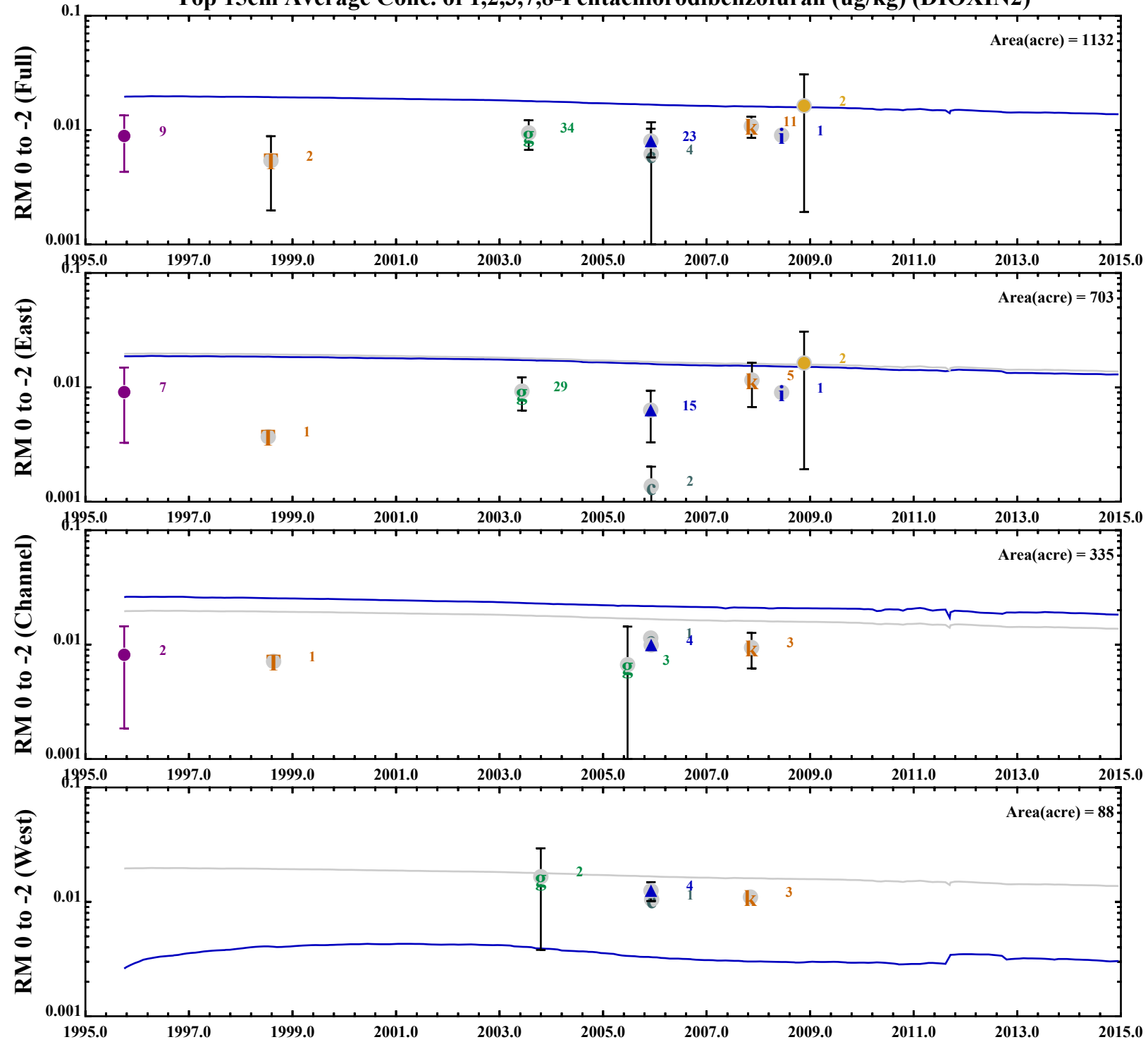


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 1992 Core Sediment Investigation
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

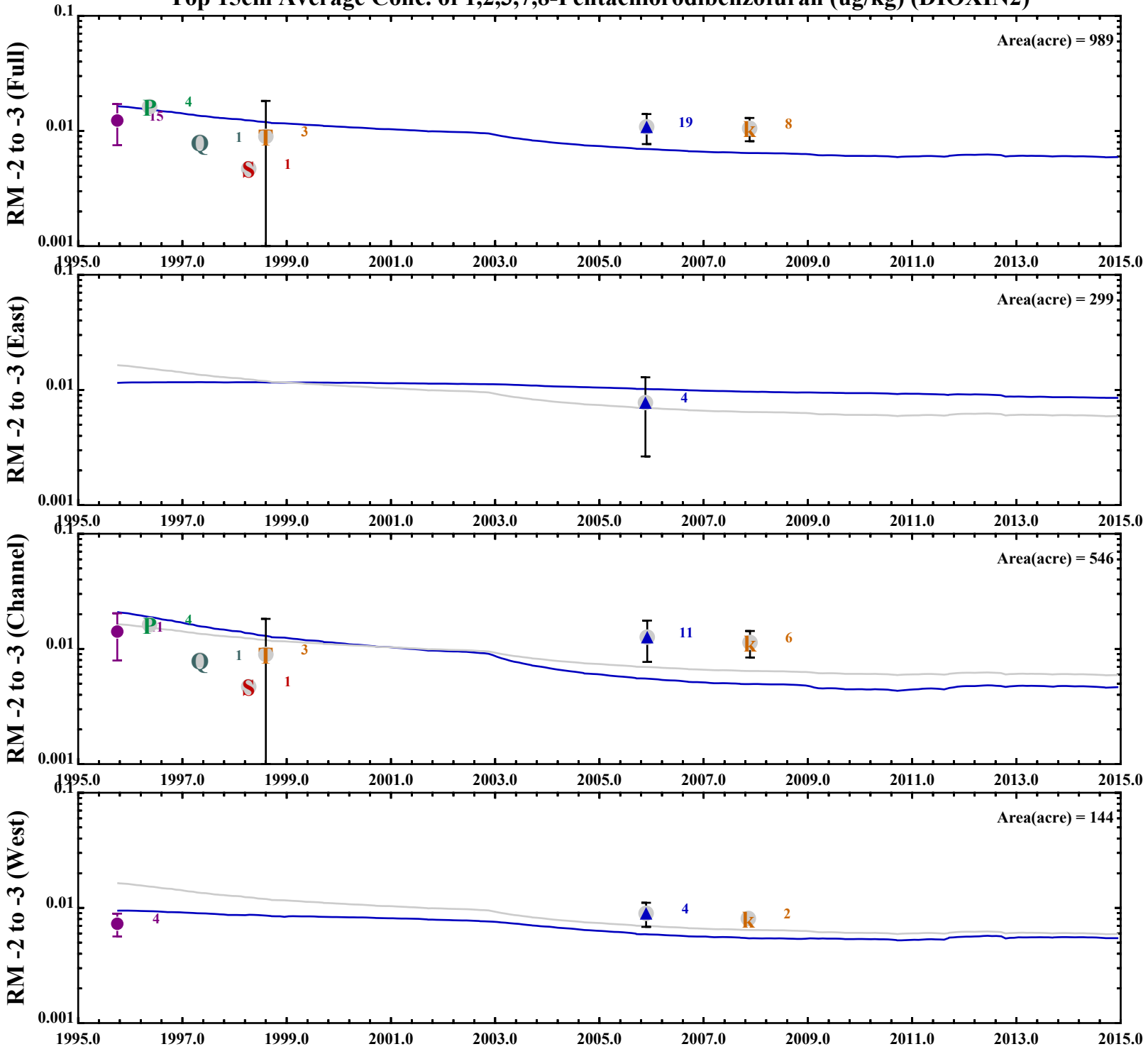
Time (Years)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
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  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
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  - j 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
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  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

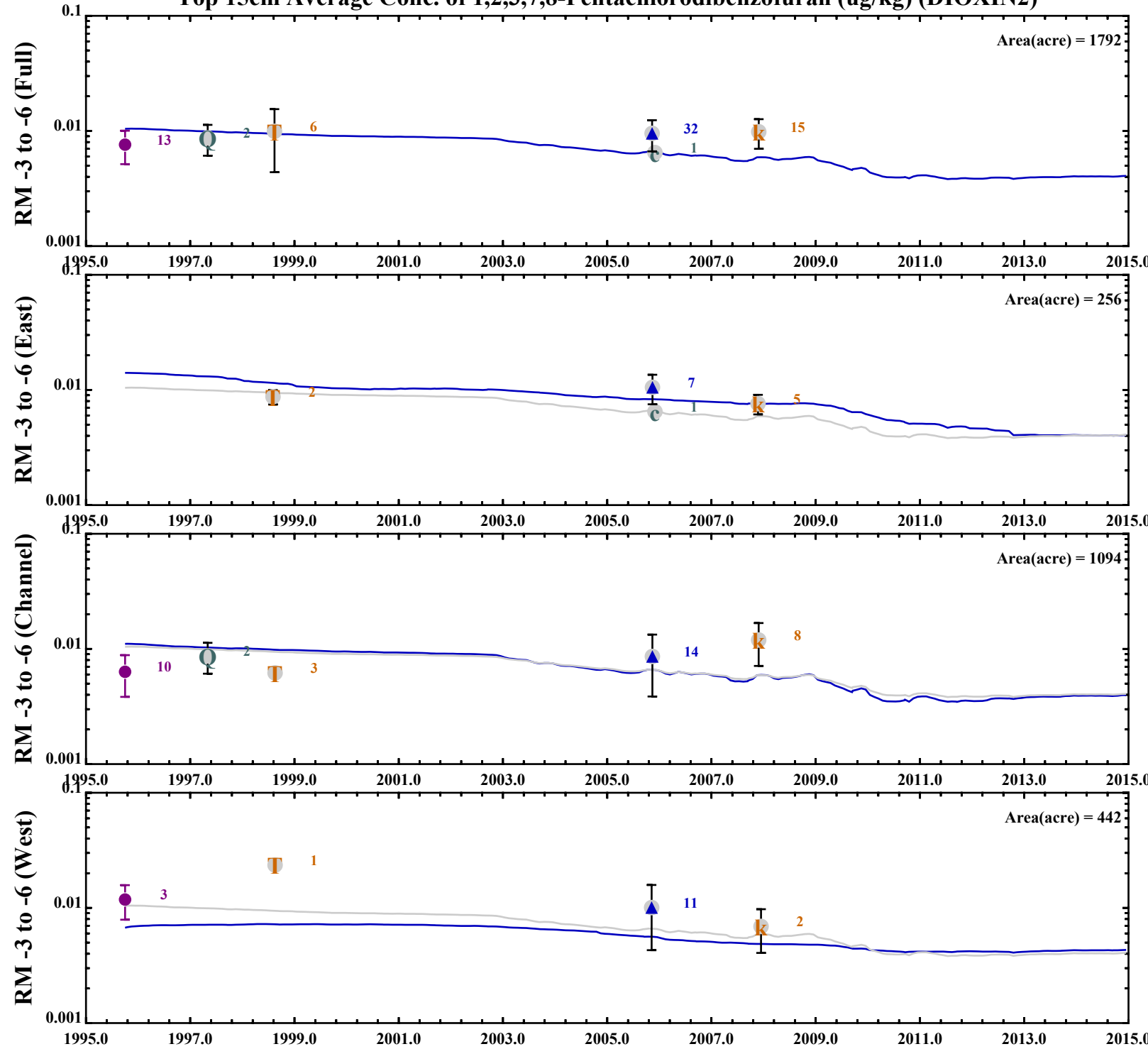


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- 1994 Surficial Sediment Investigation
- REMAP, 1994
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



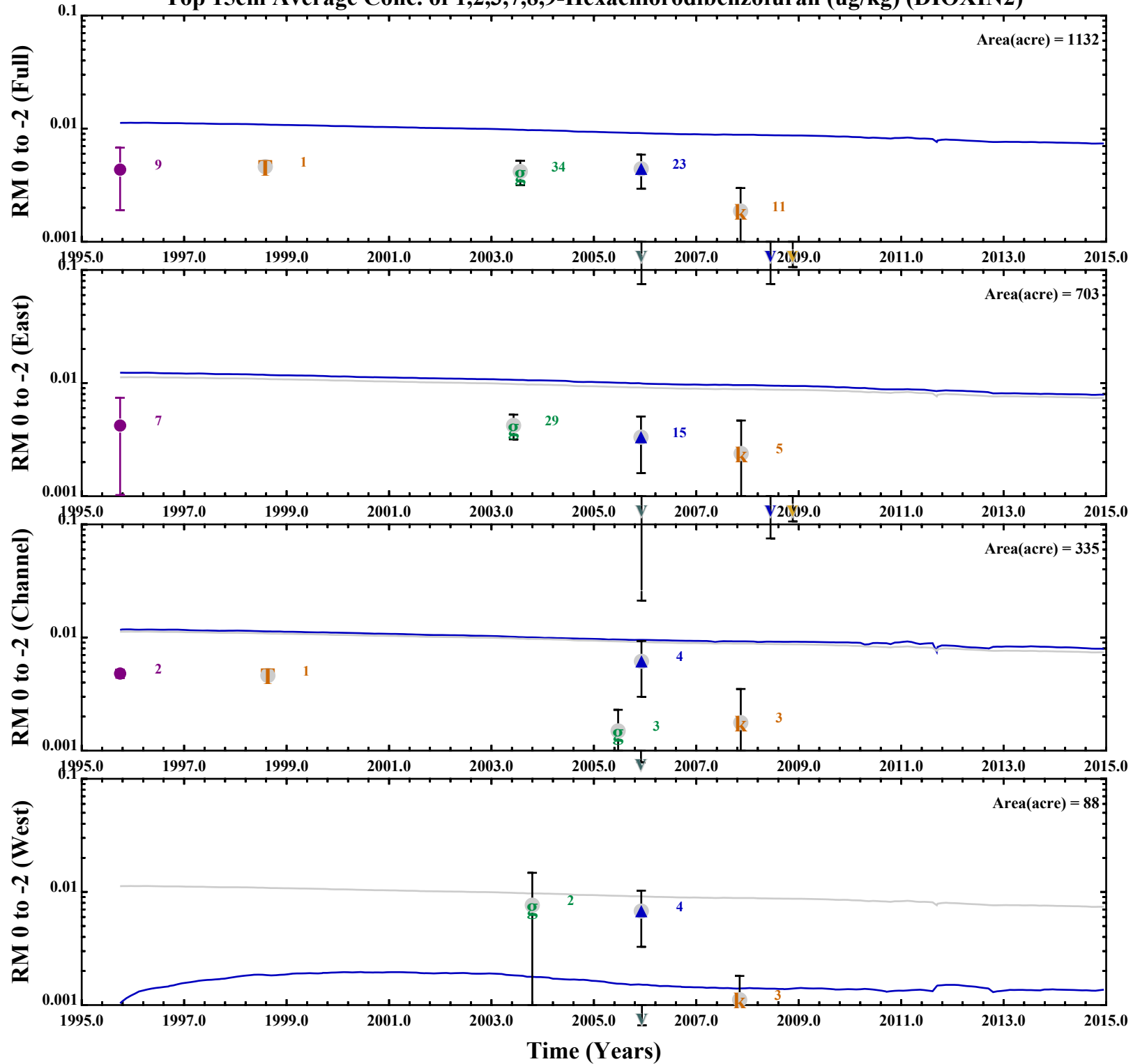
- Data used for ICs
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



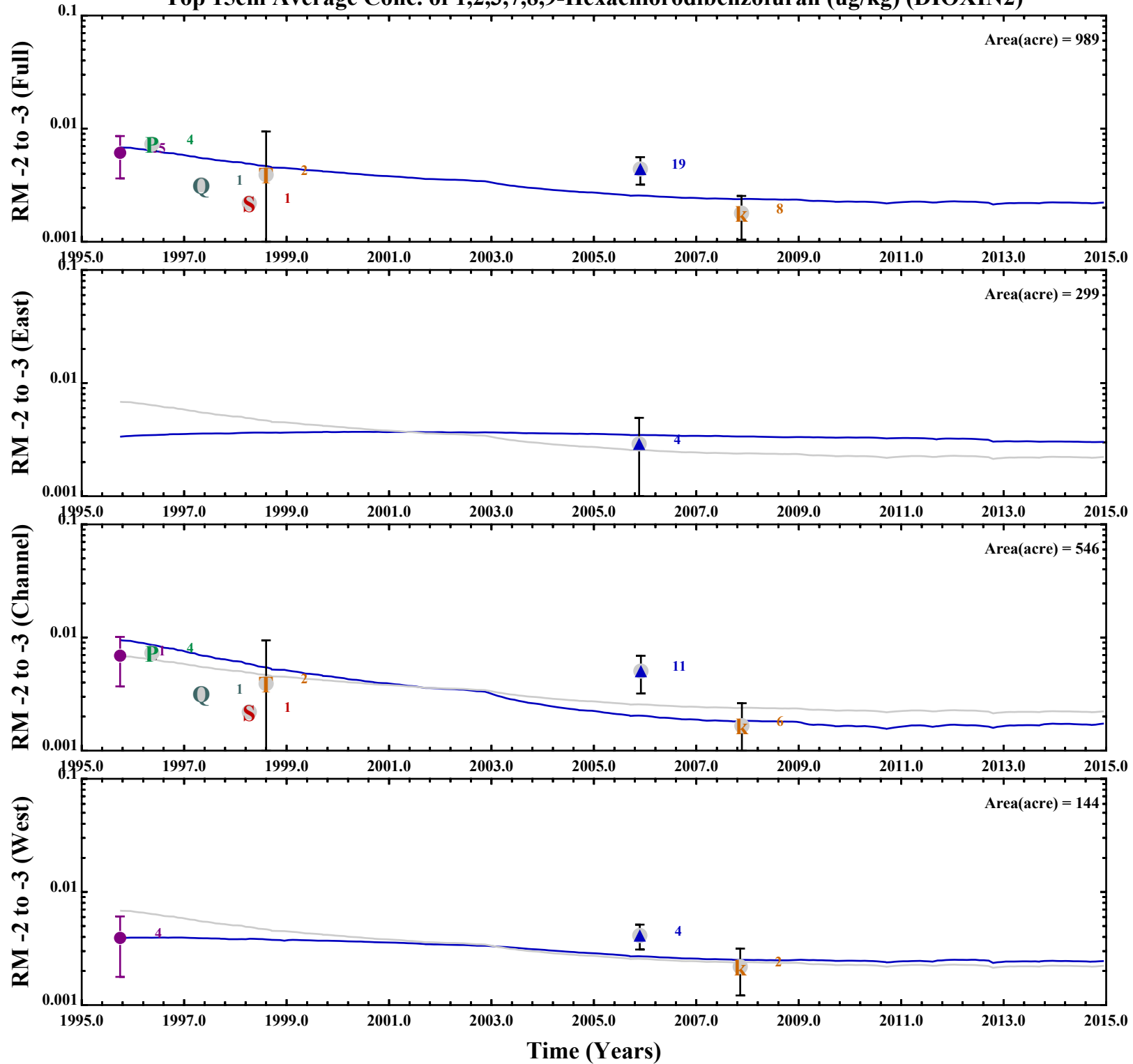
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

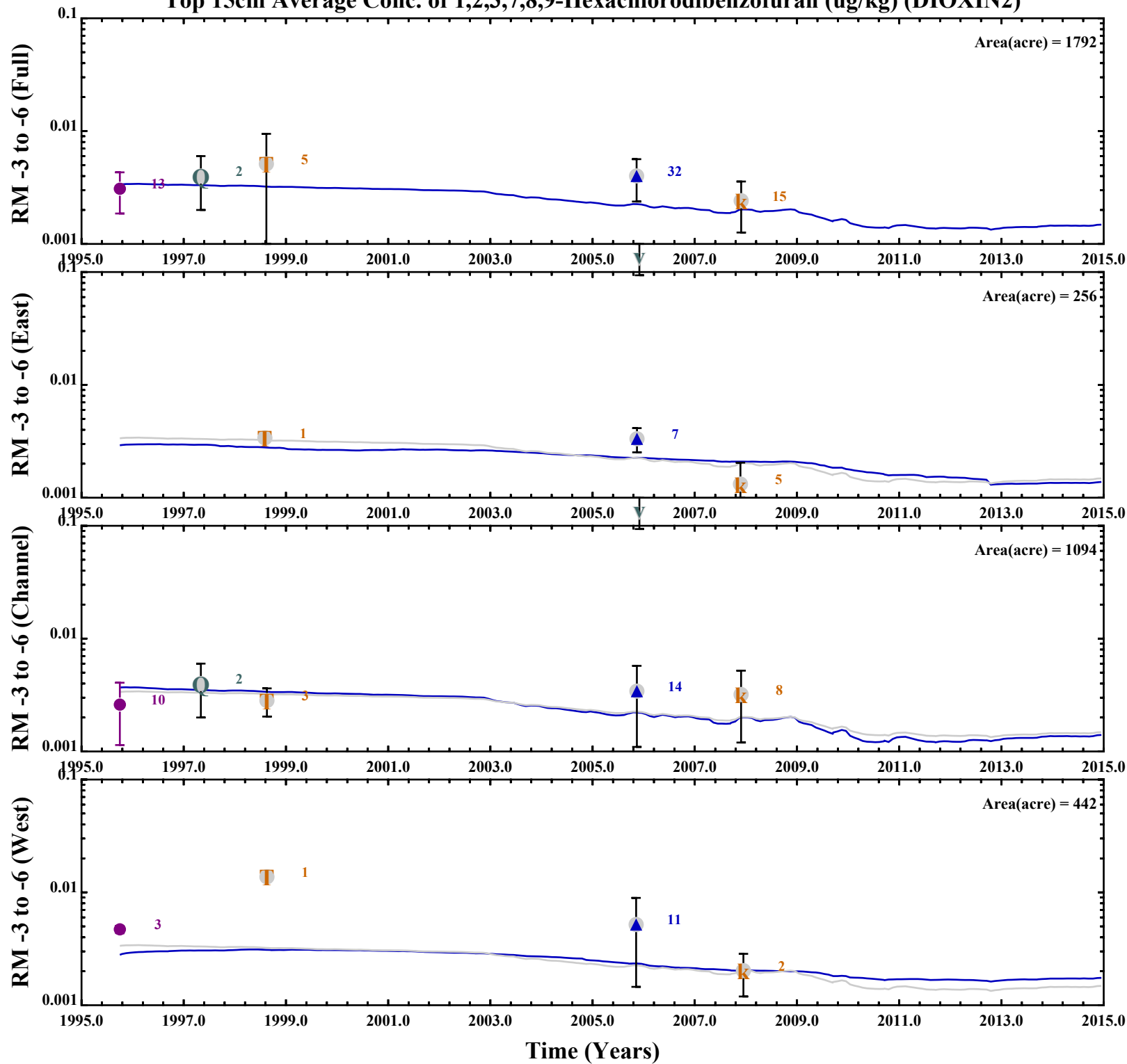
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

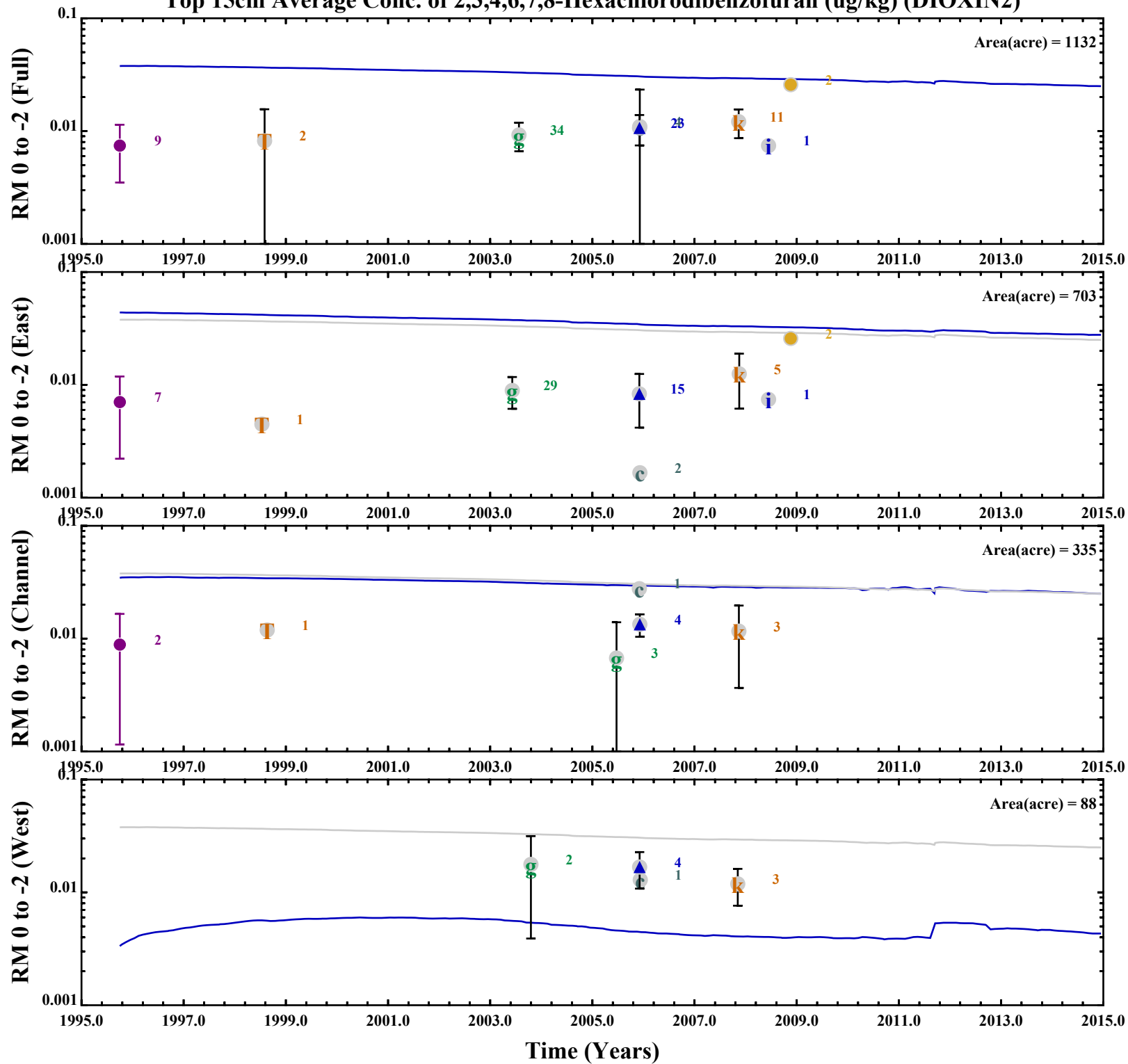


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
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- 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

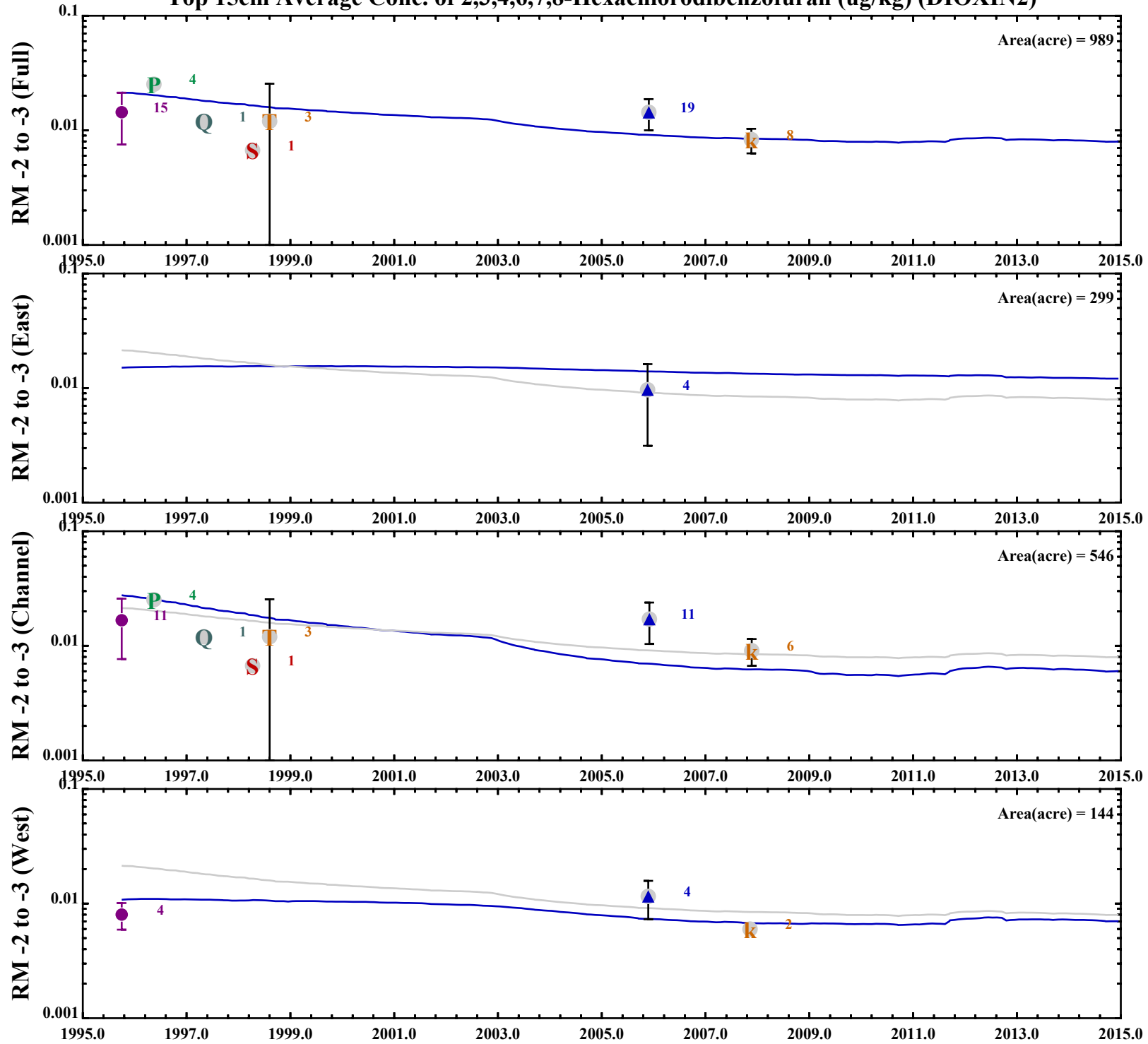
# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

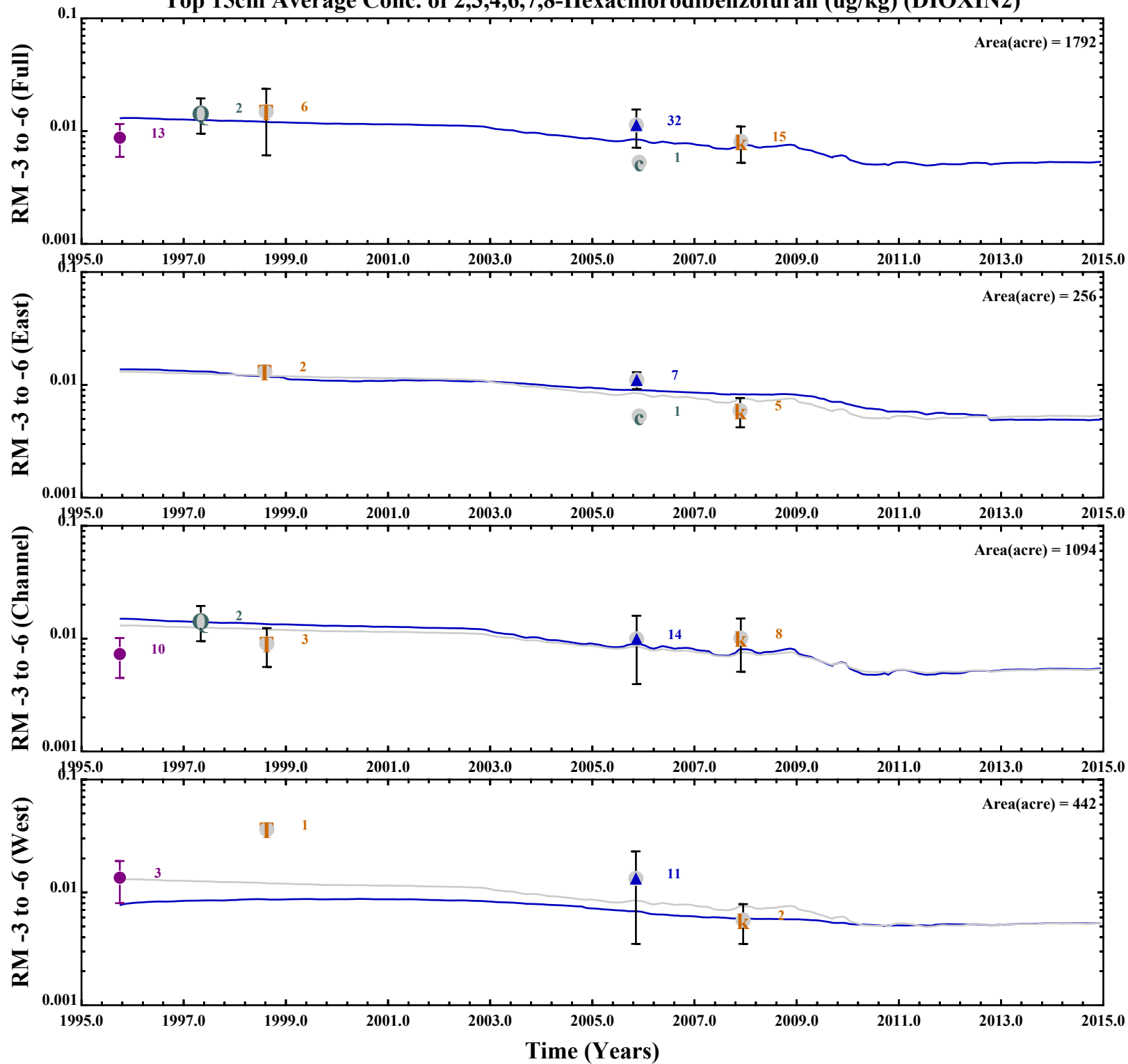


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- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

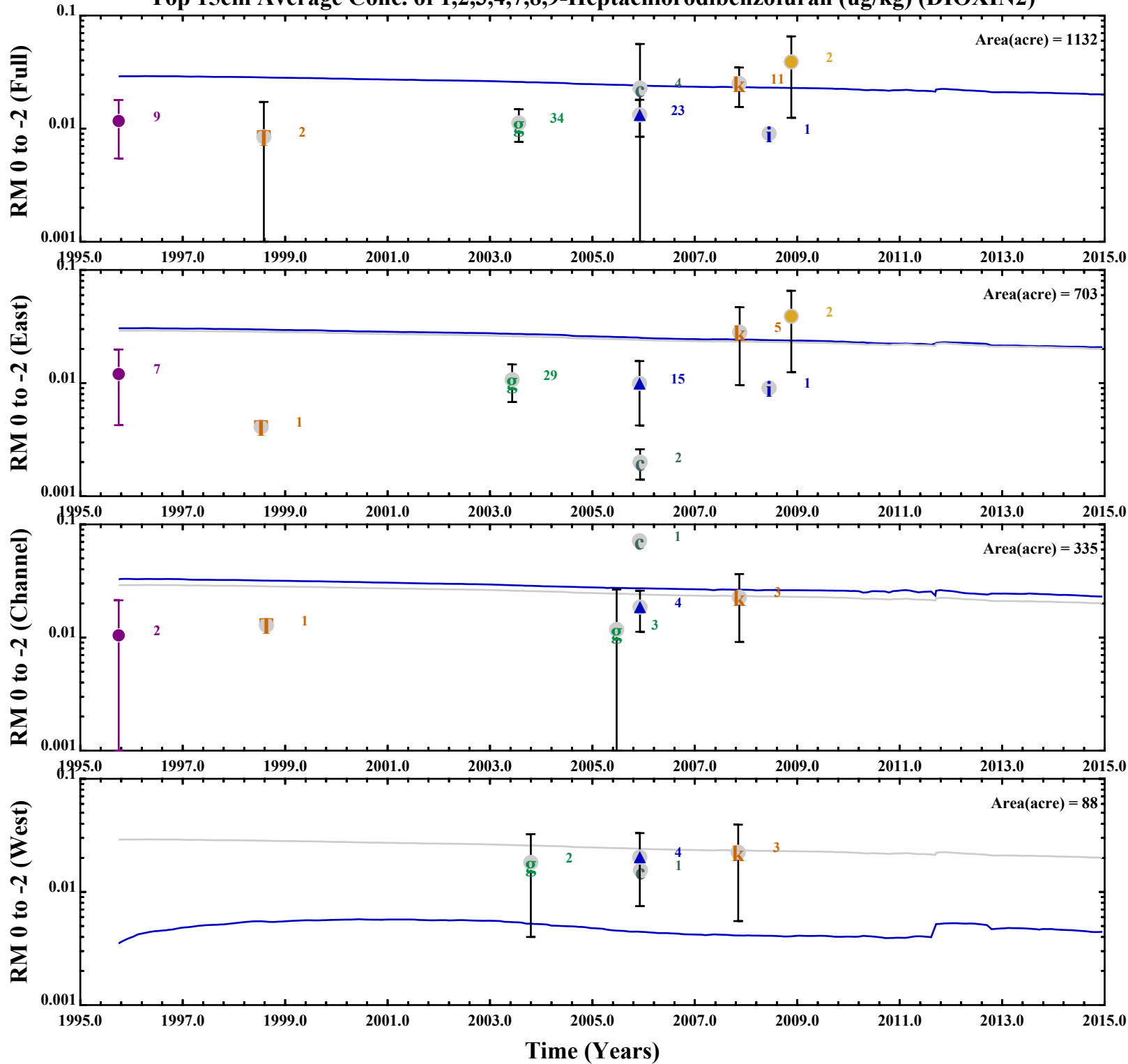
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



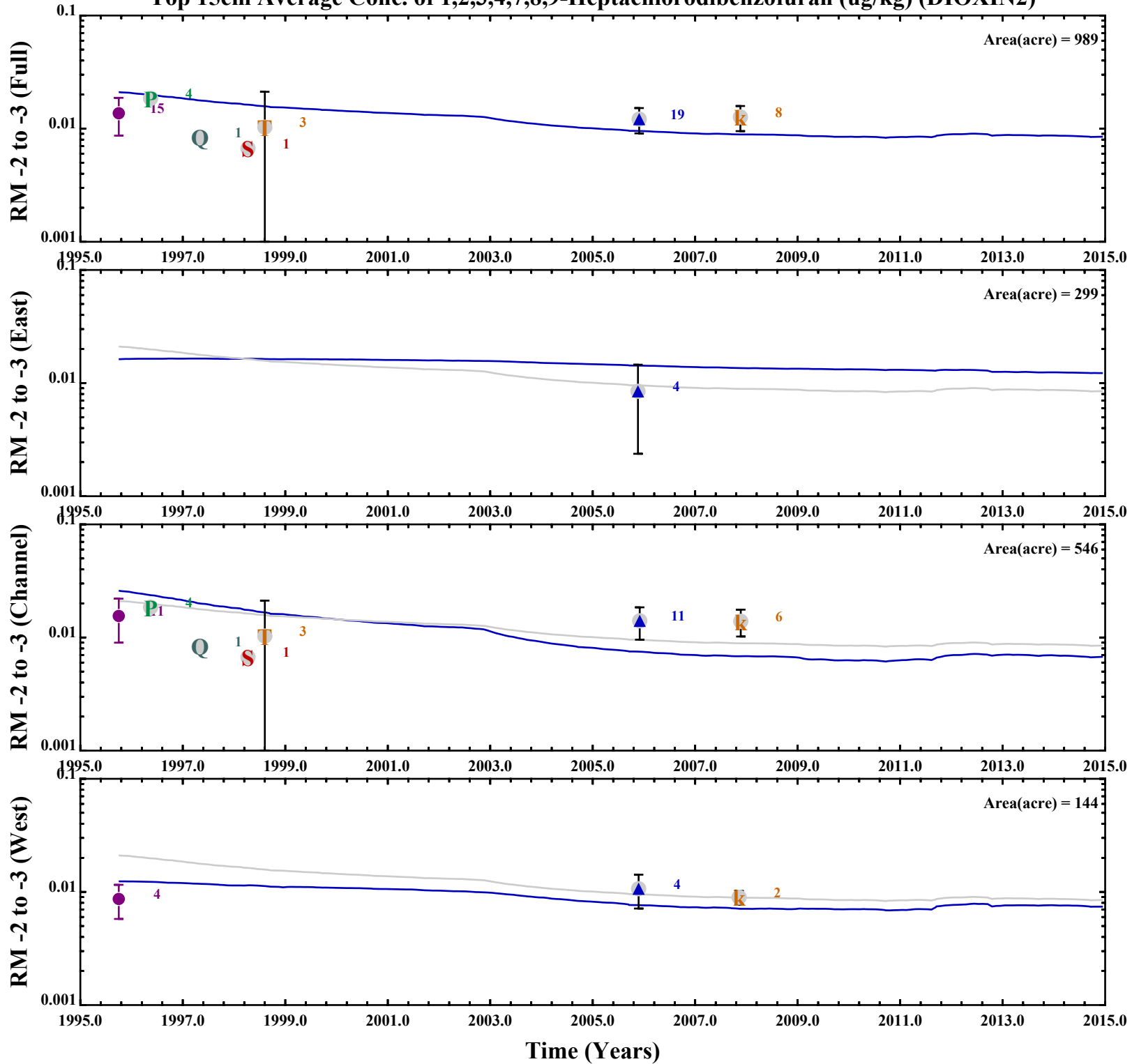
# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
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- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

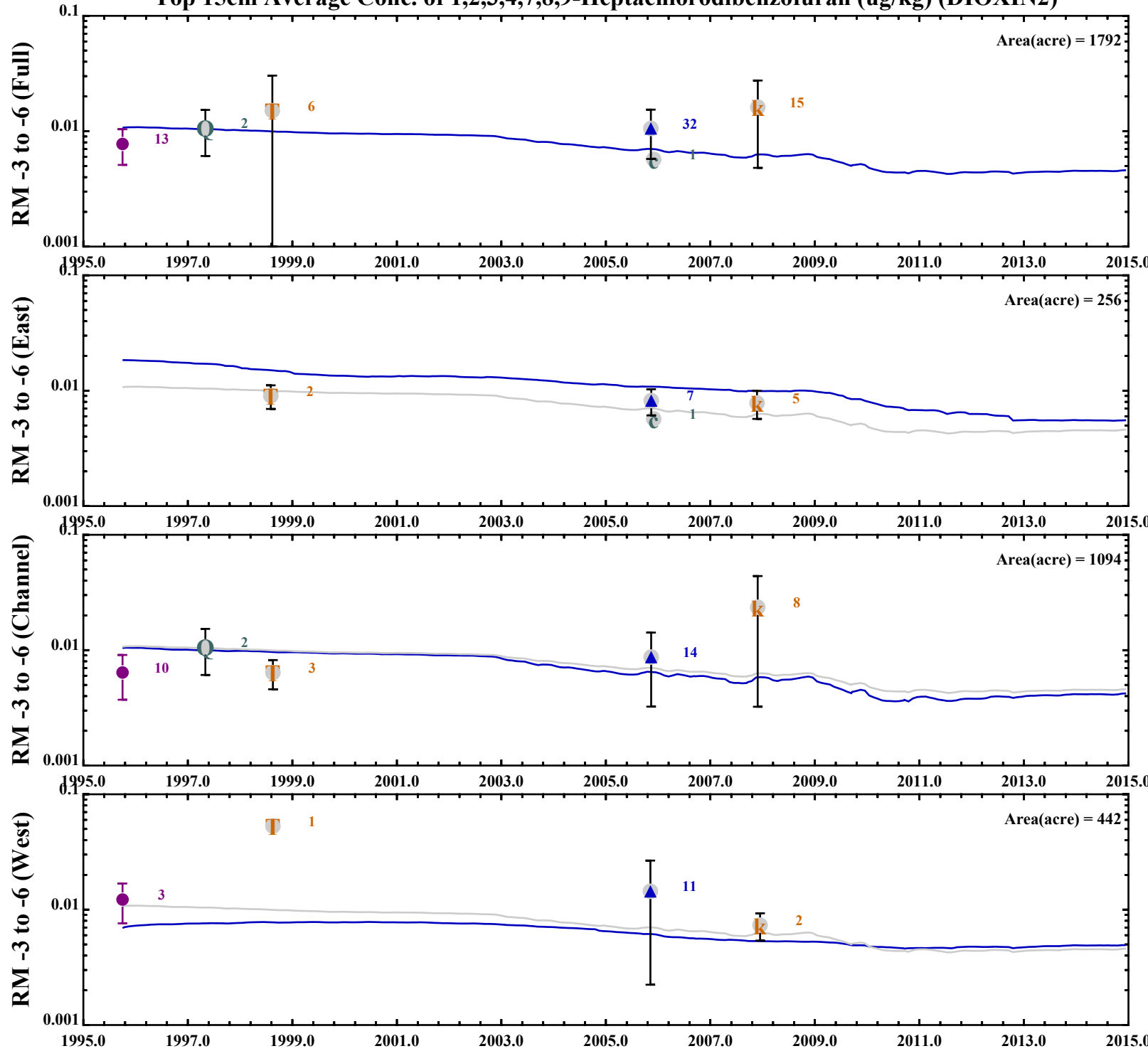


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

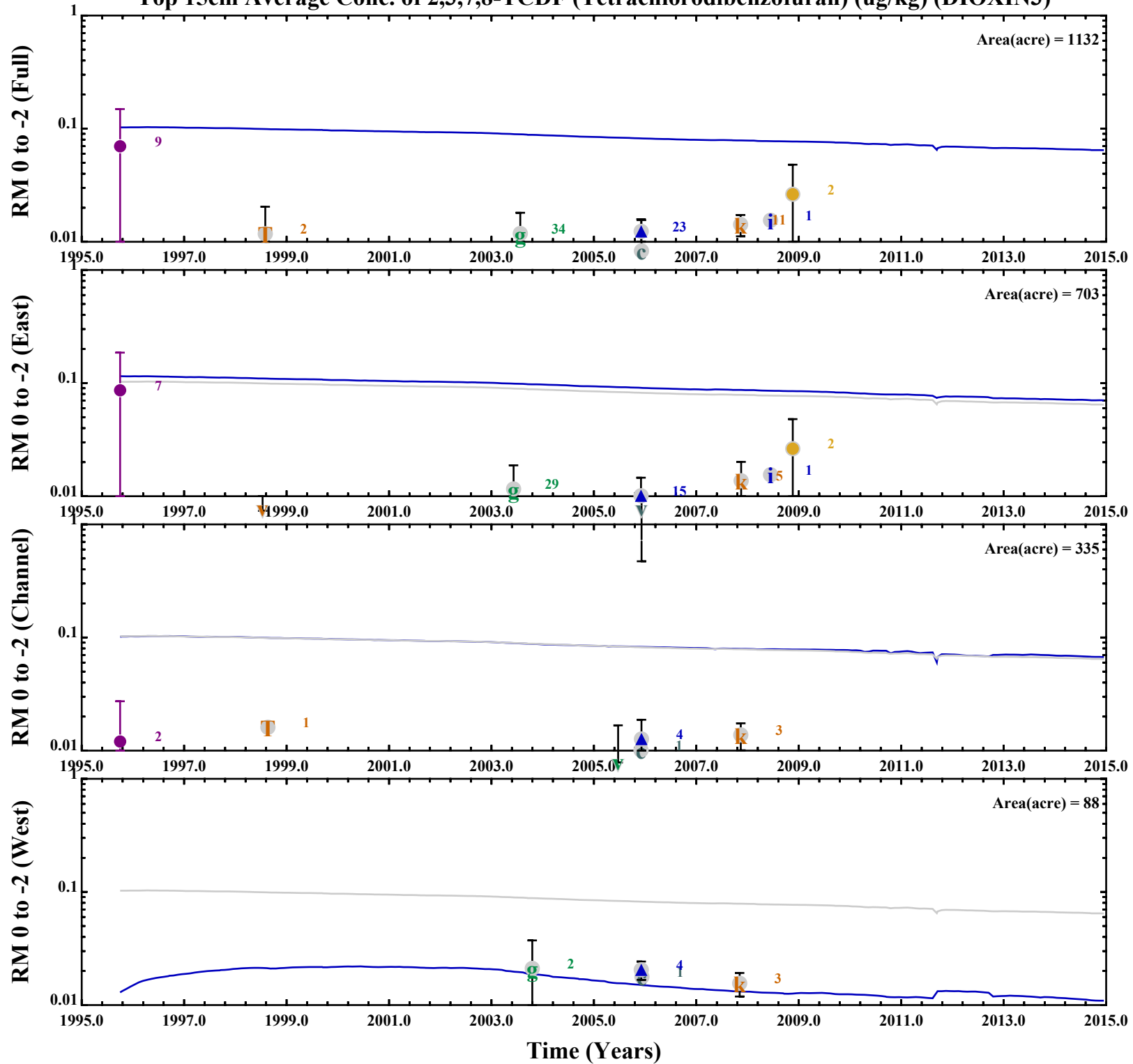


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2010 CPG Benthic Sediment Sampling
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- 2011 CPG River Mile 10.9 Data
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- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)

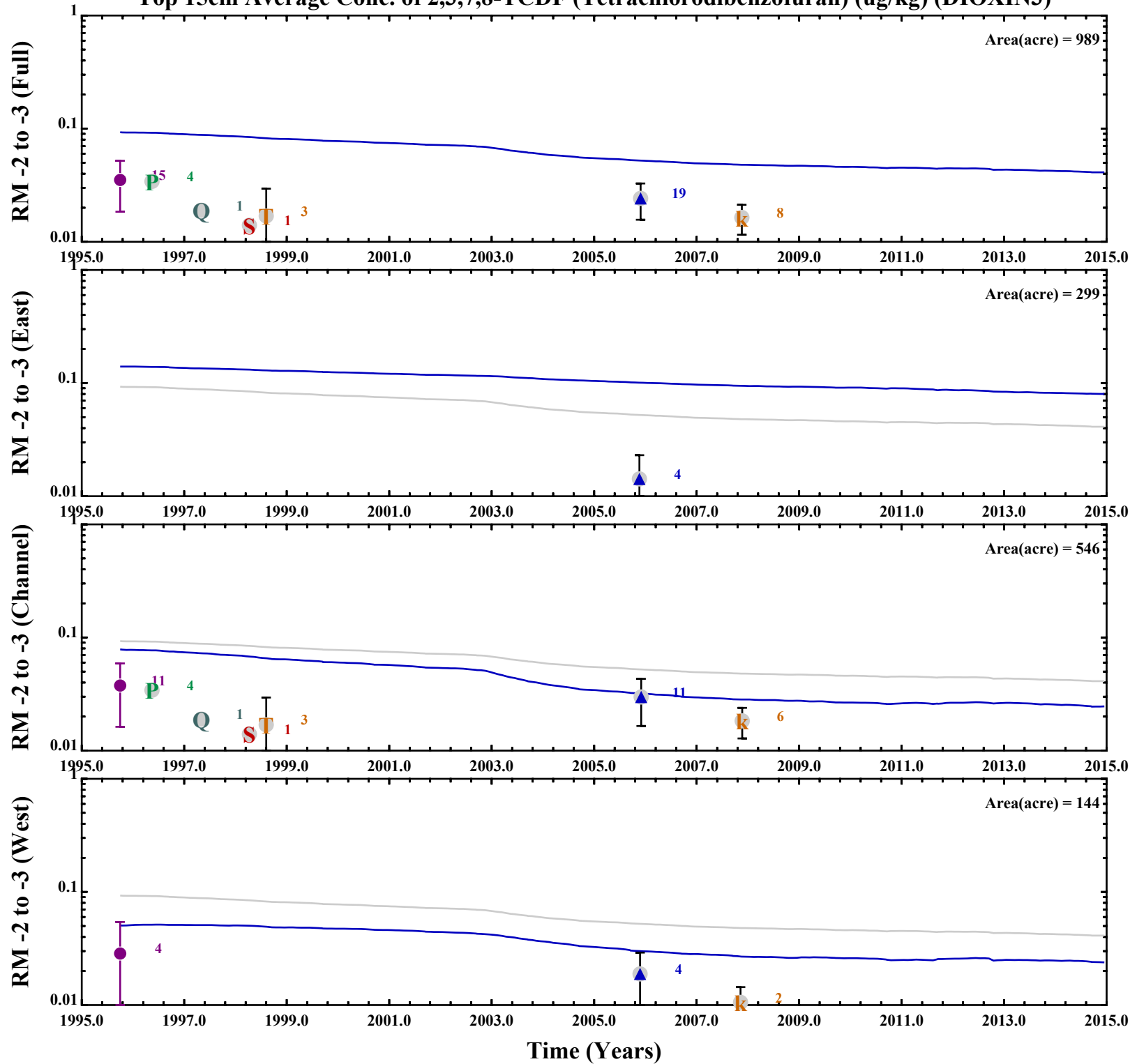


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- REMAP, 1998
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- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

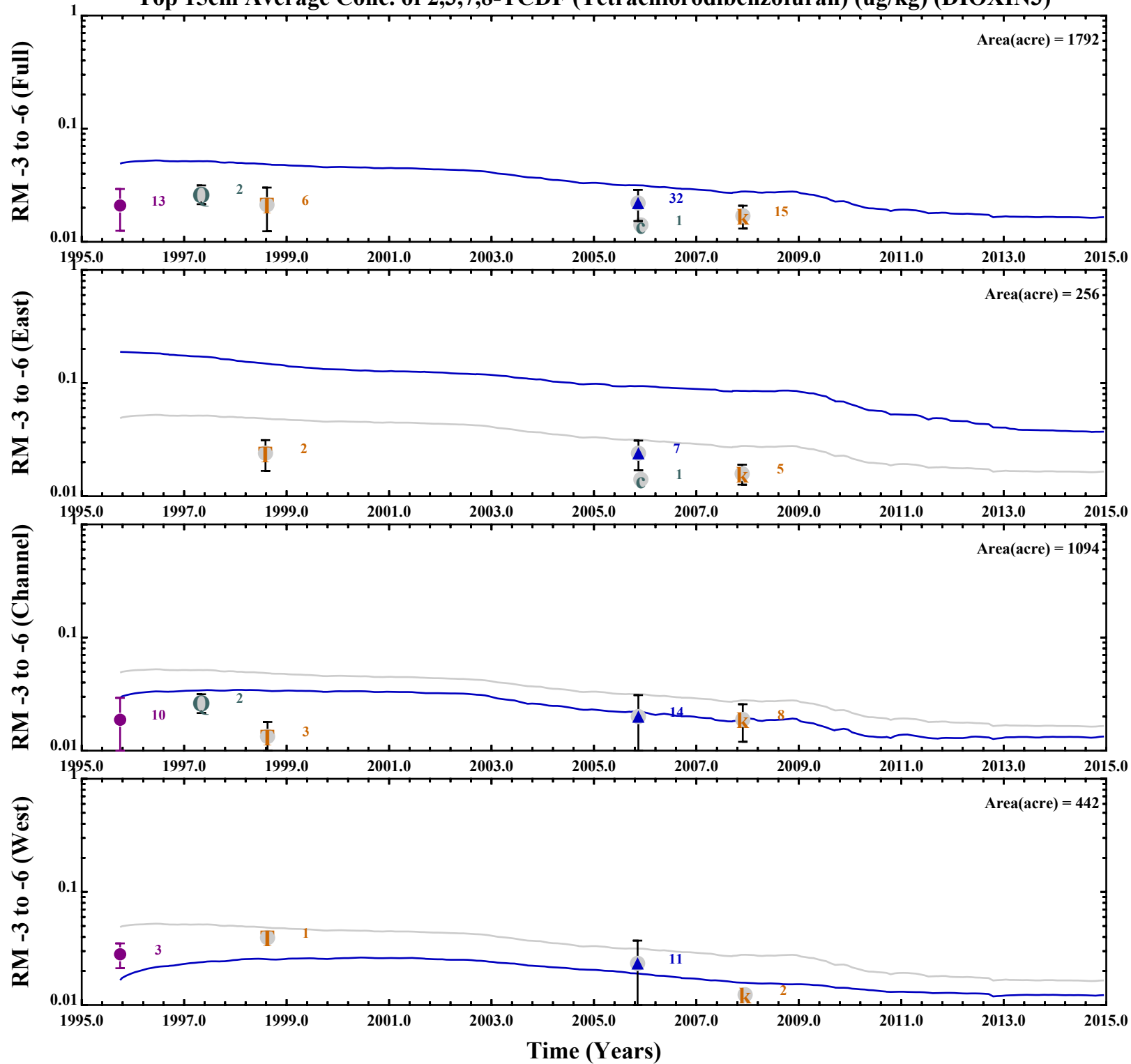
# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
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- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

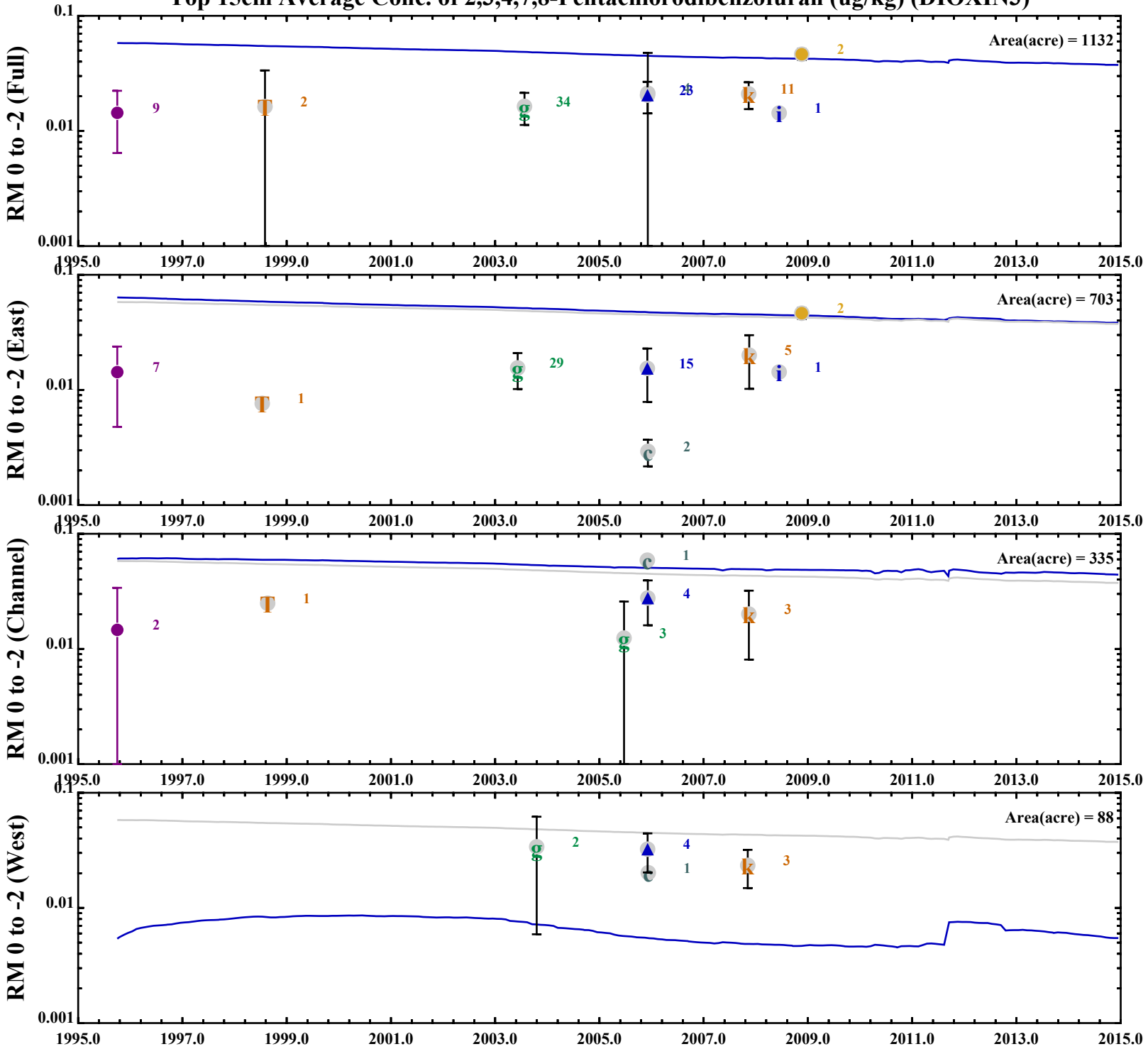
# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

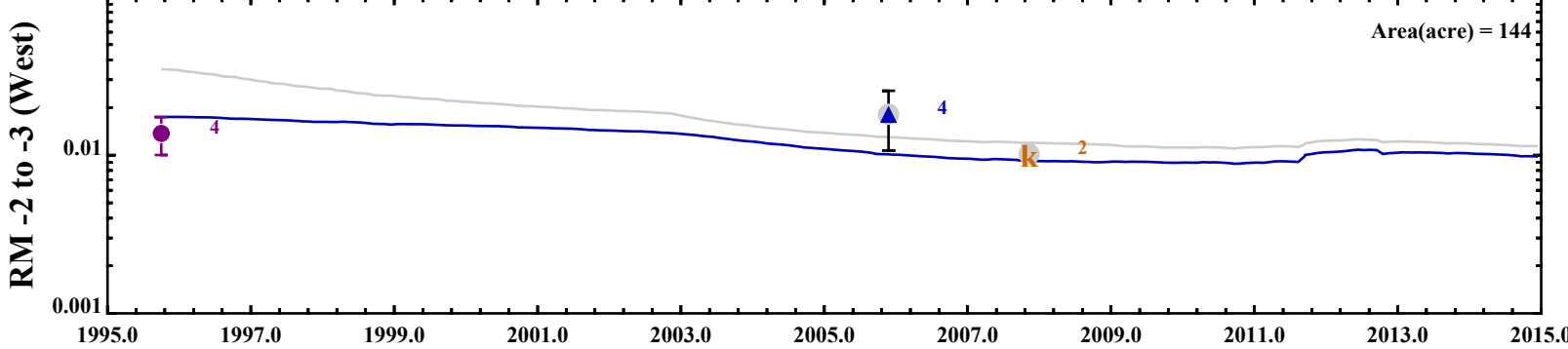
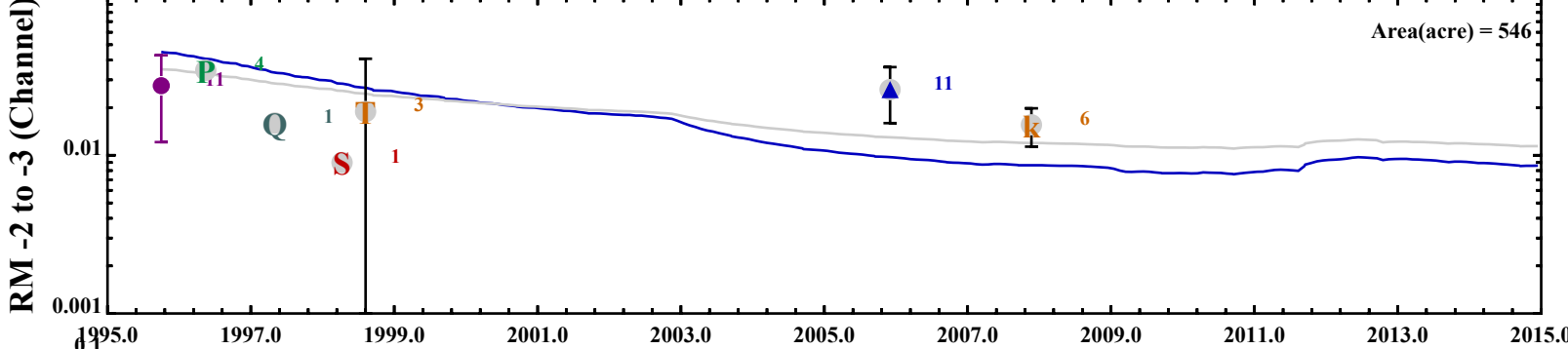
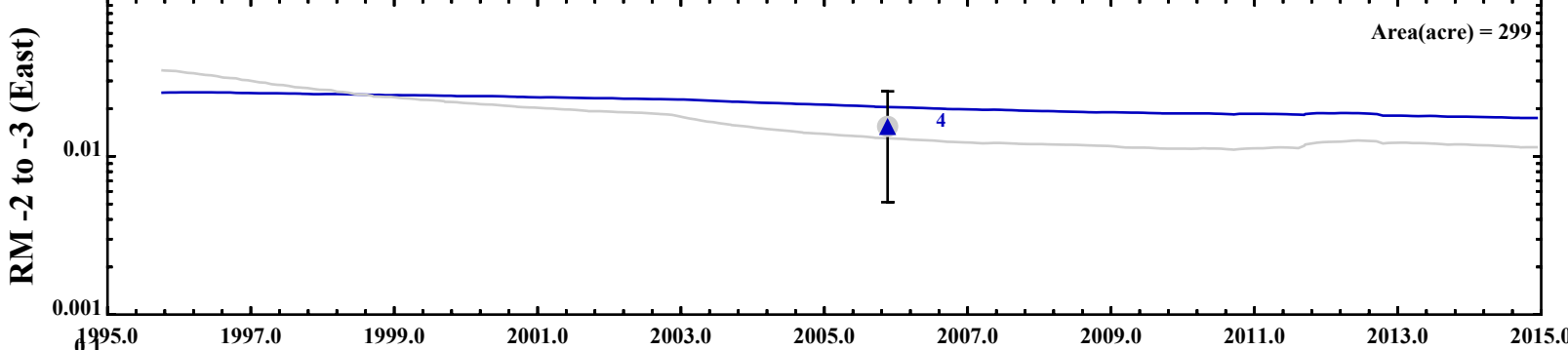
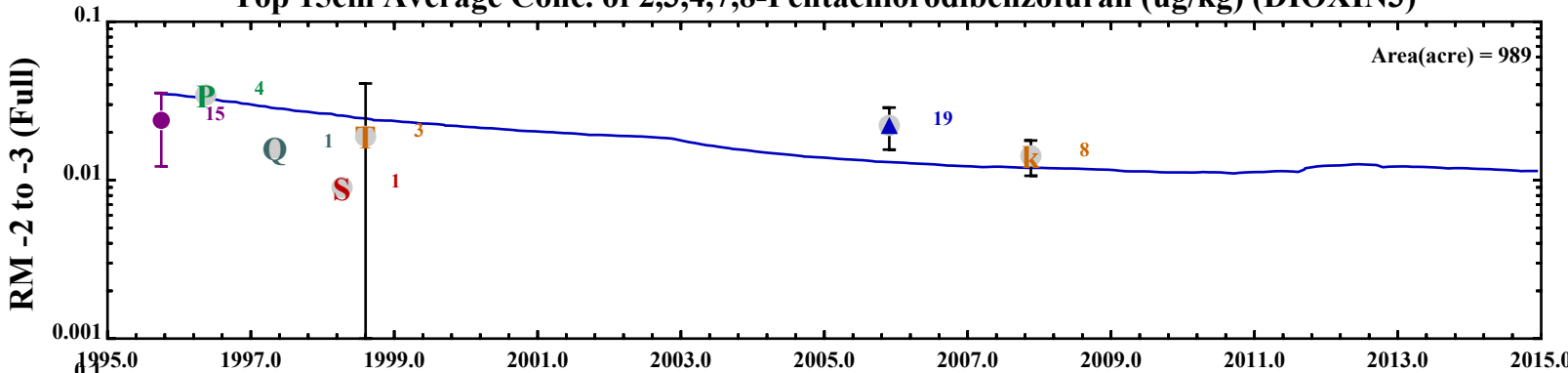


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

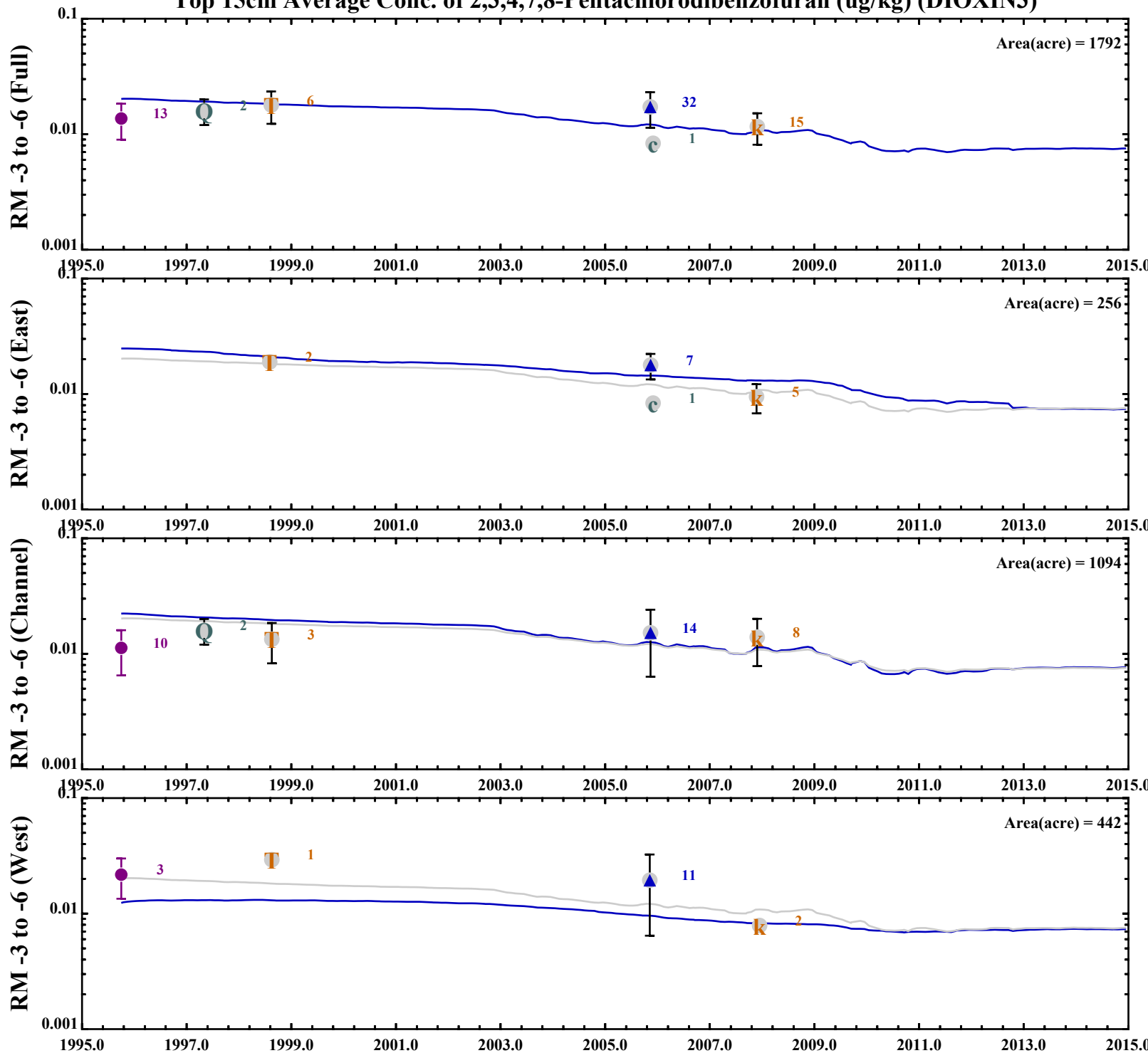


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

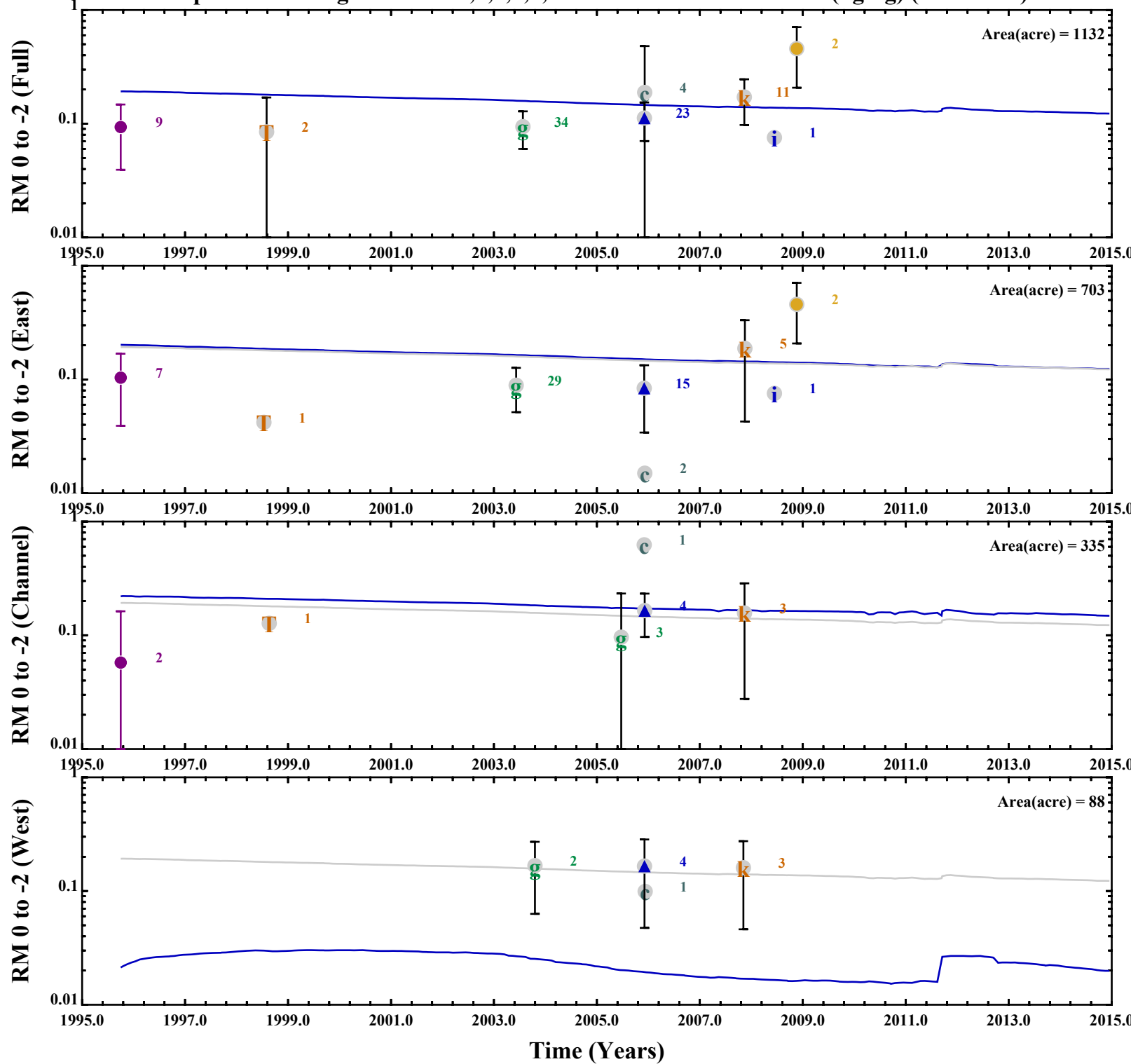


- Data used for ICs
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- H 1993 USEPA Surficial Sediment Program
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- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
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- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

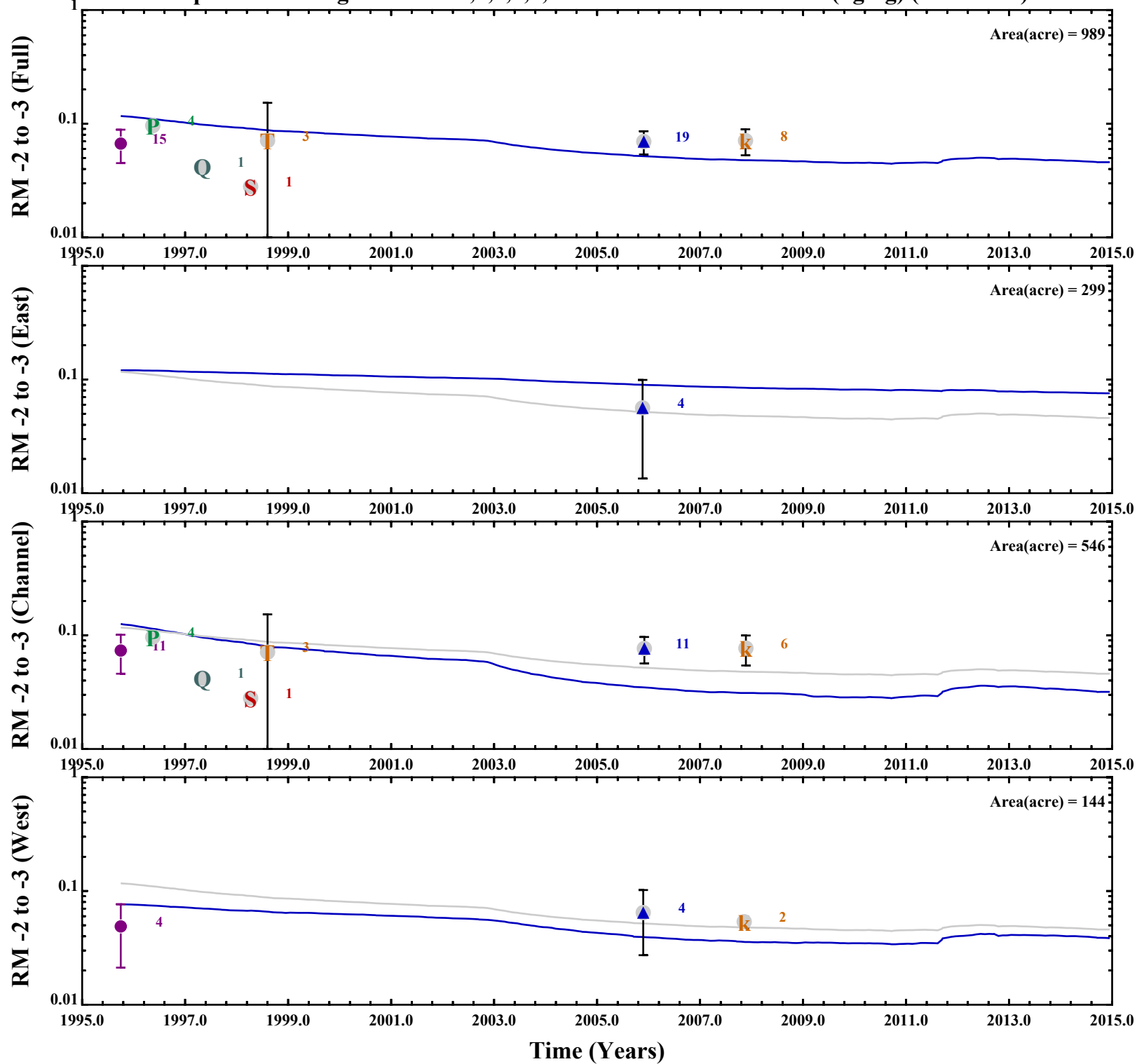


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- A 1990 Surficial Sediment Investigation
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

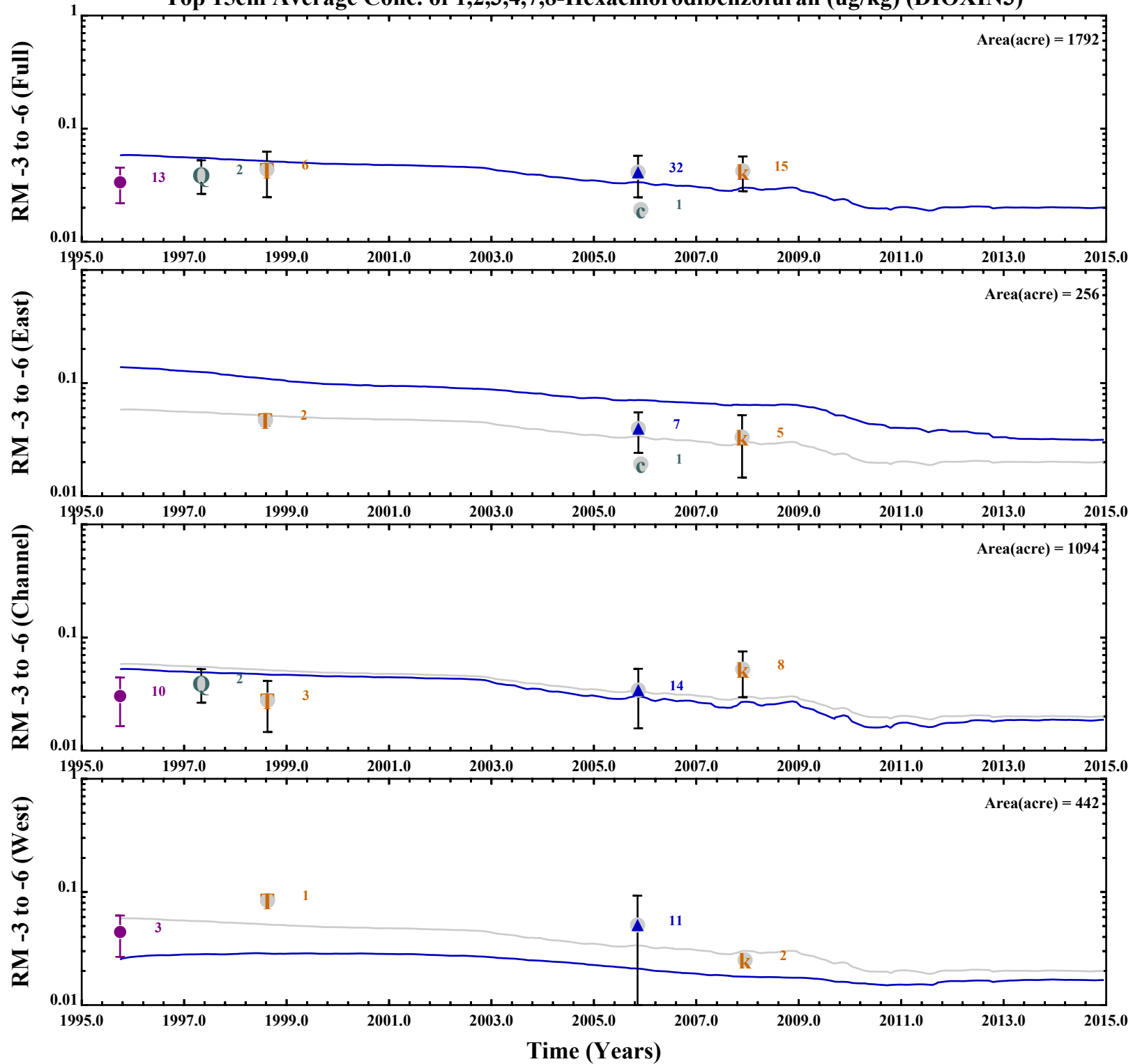


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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

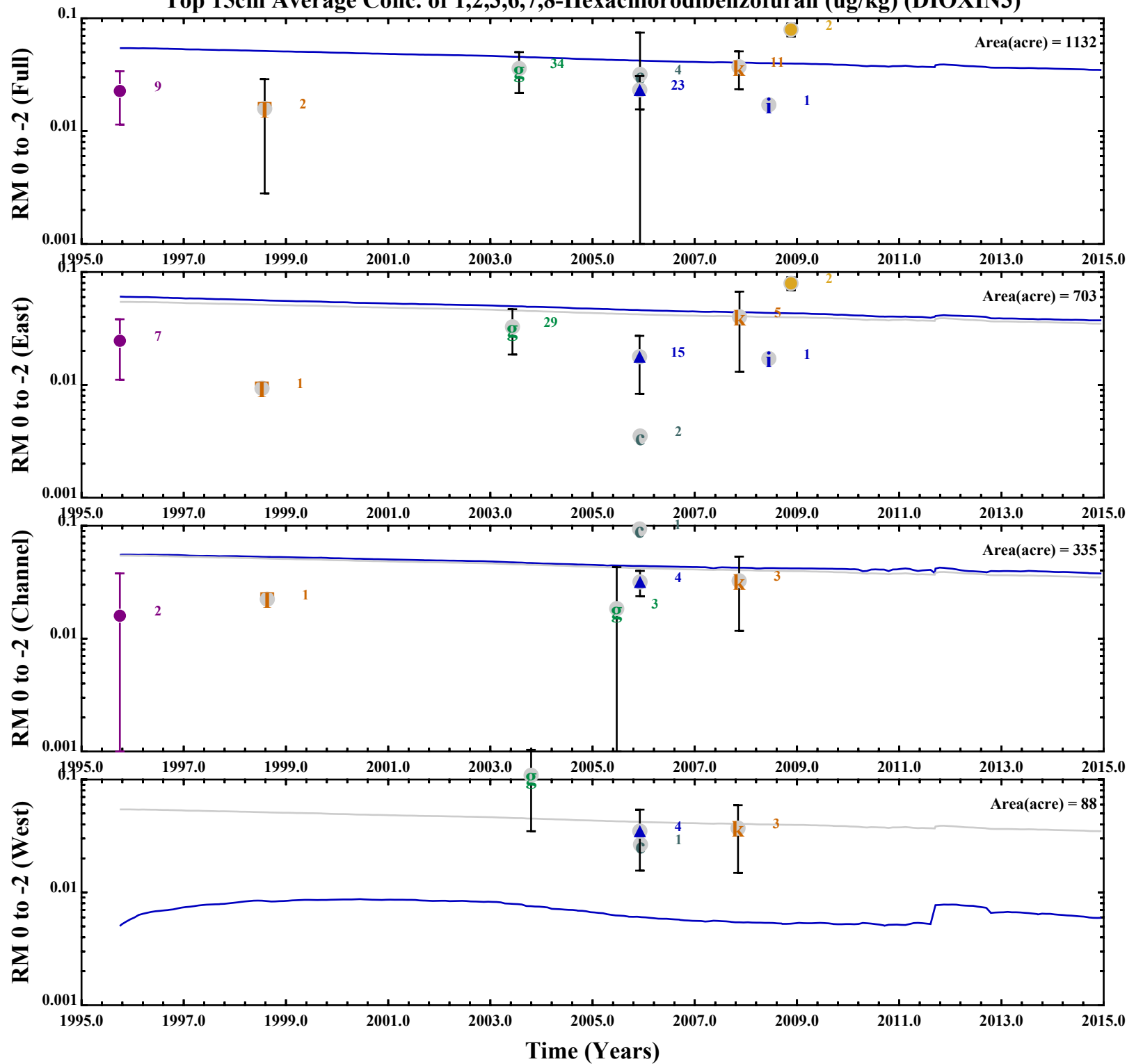
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

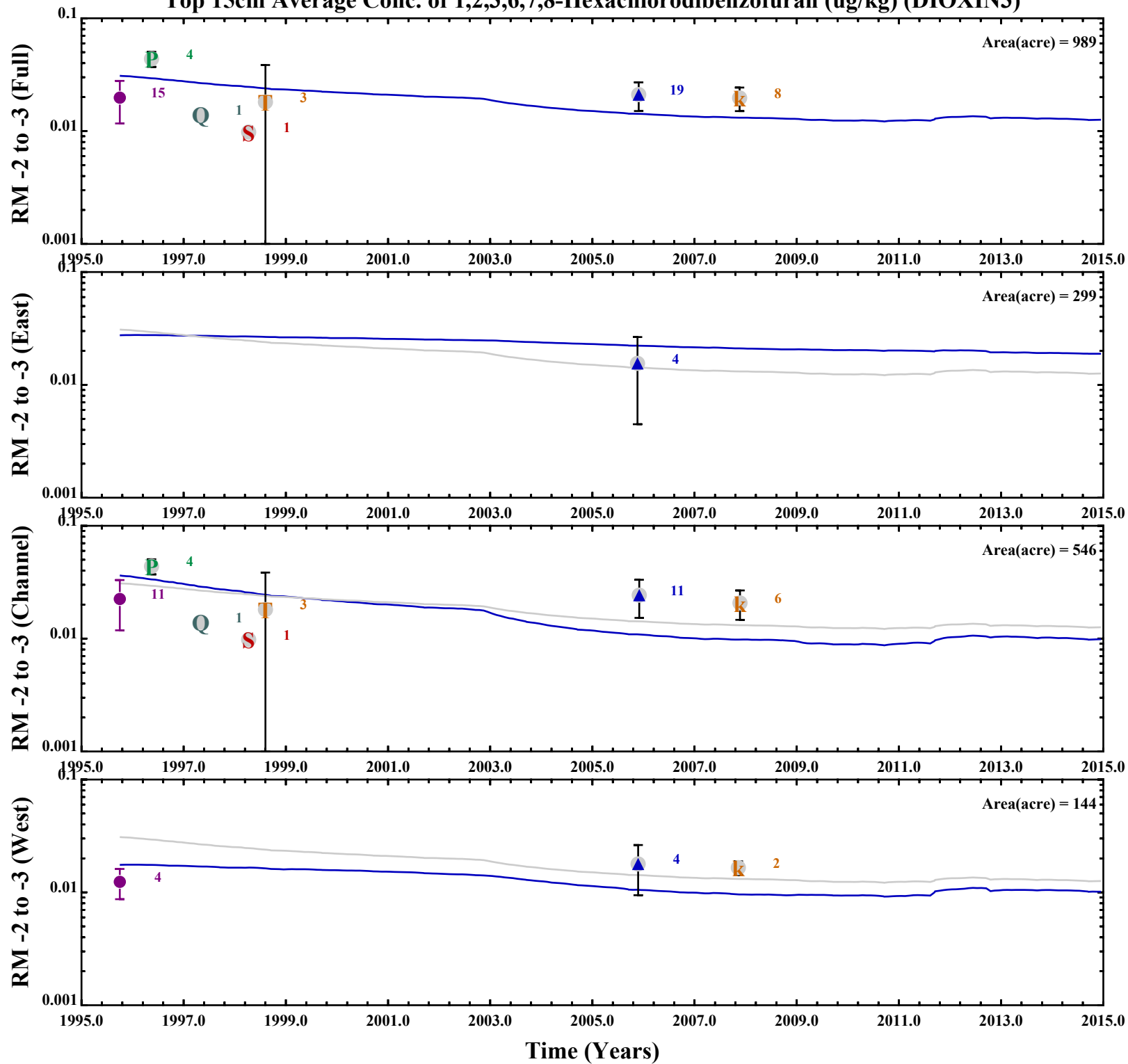
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

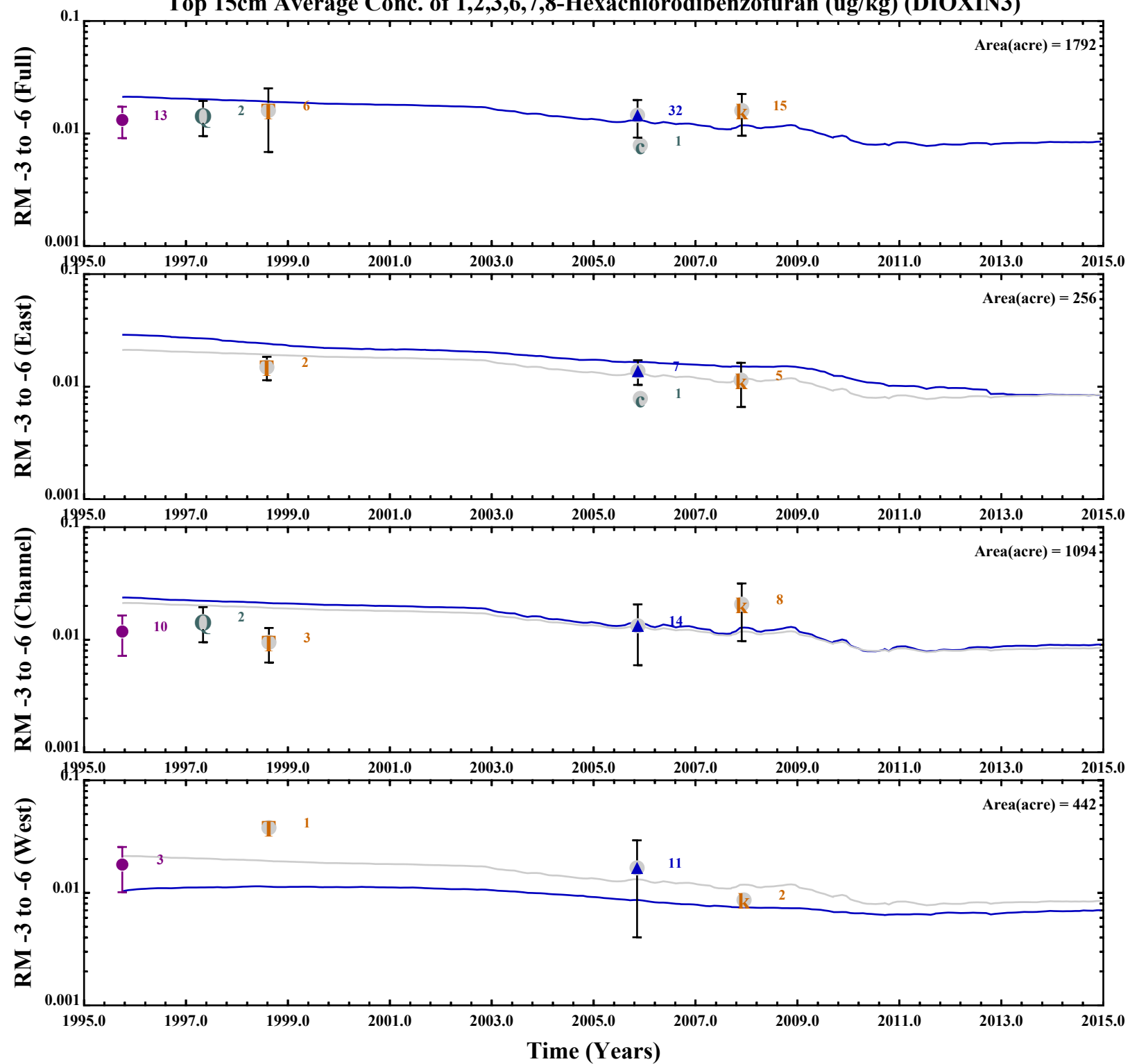
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

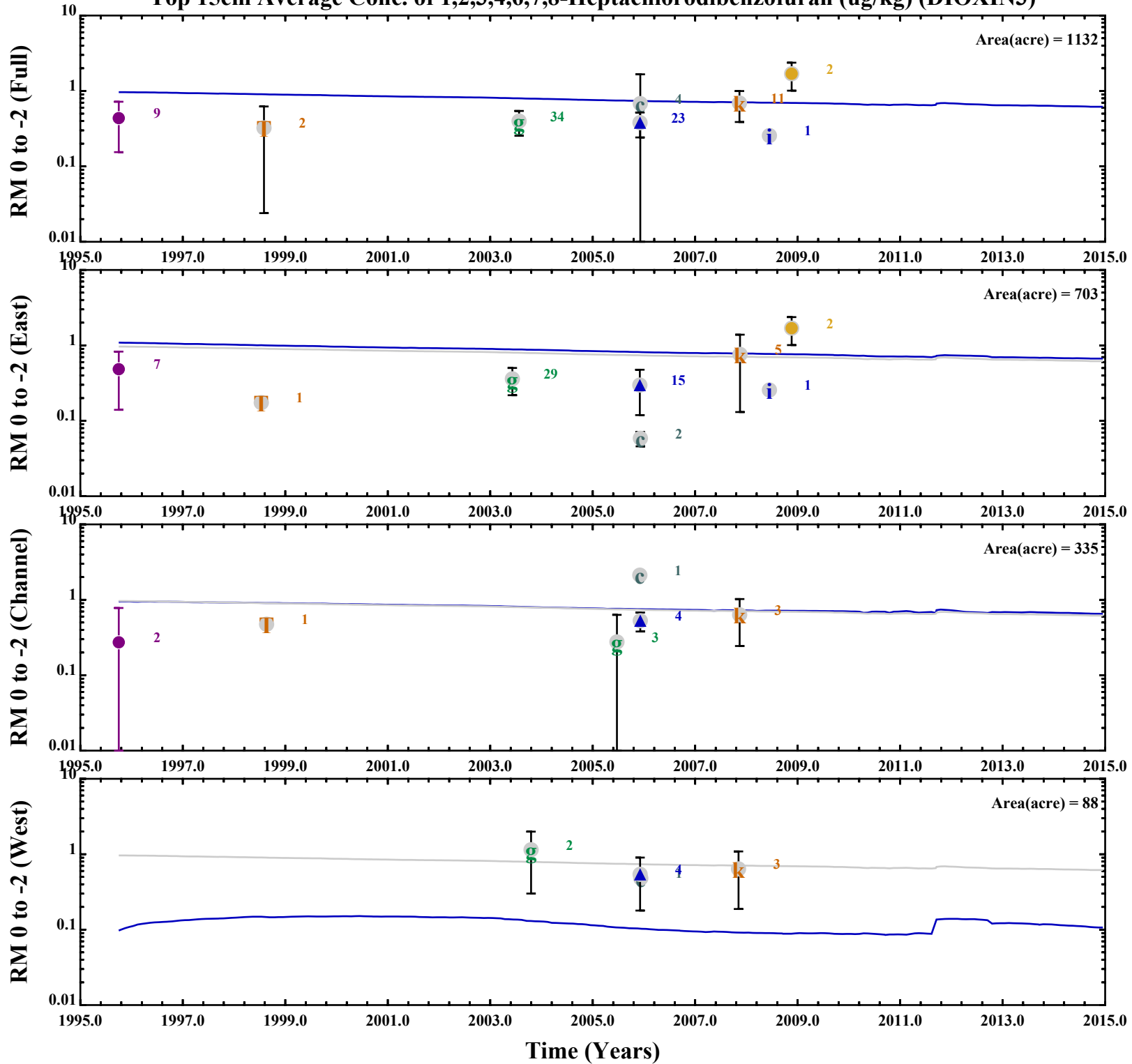
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
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- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

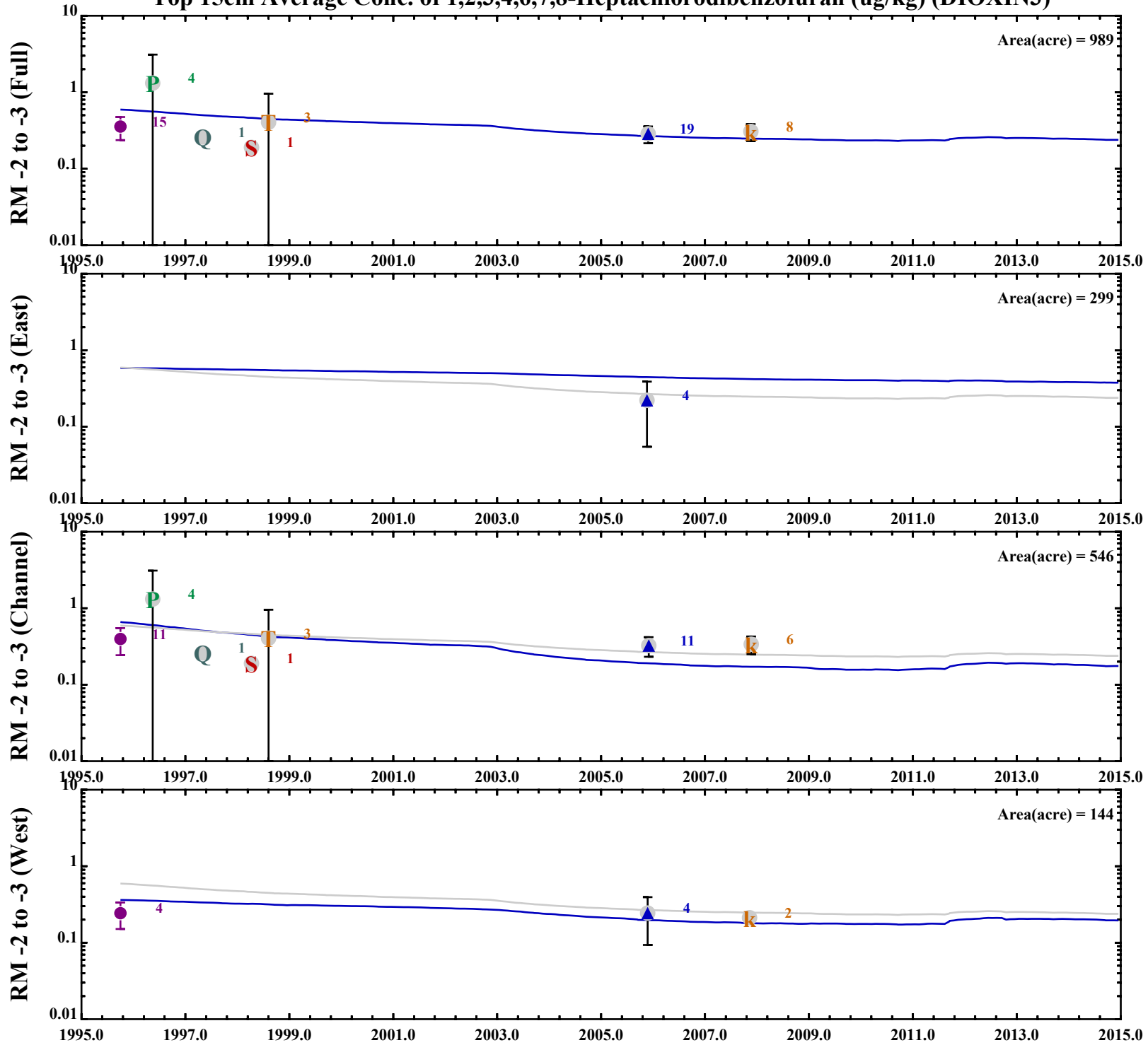
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
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- REMAP, 1994
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

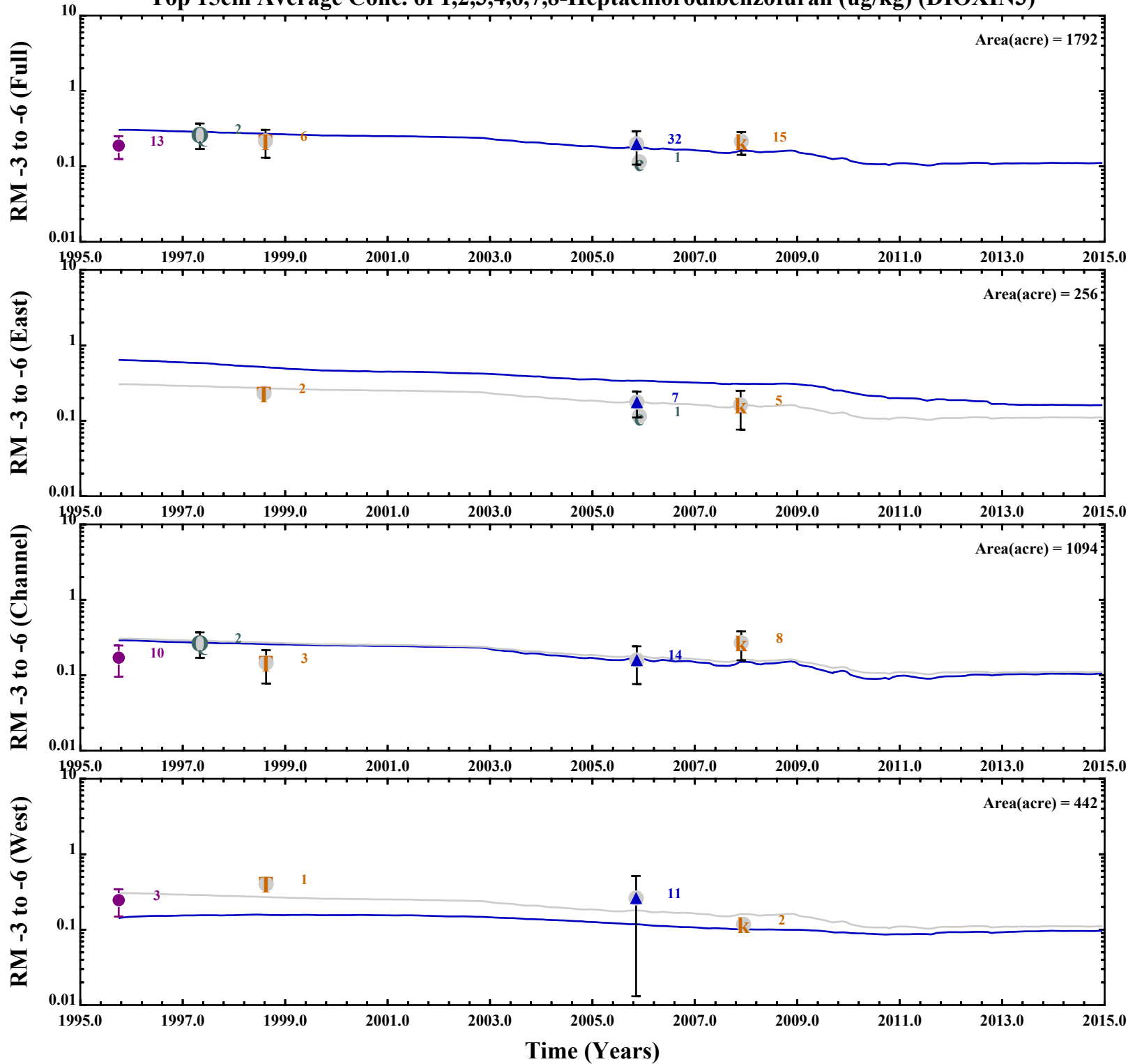
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)

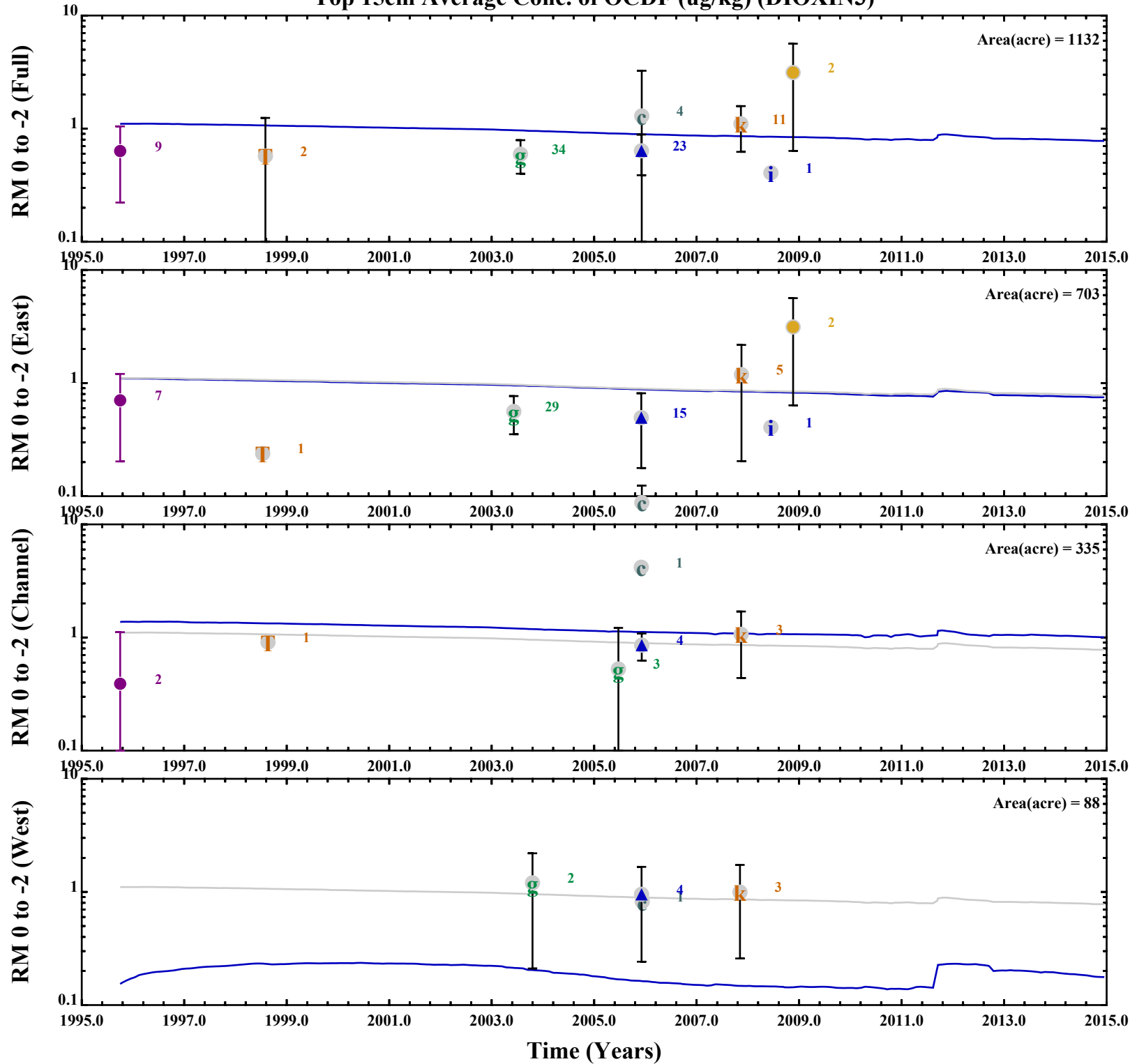


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



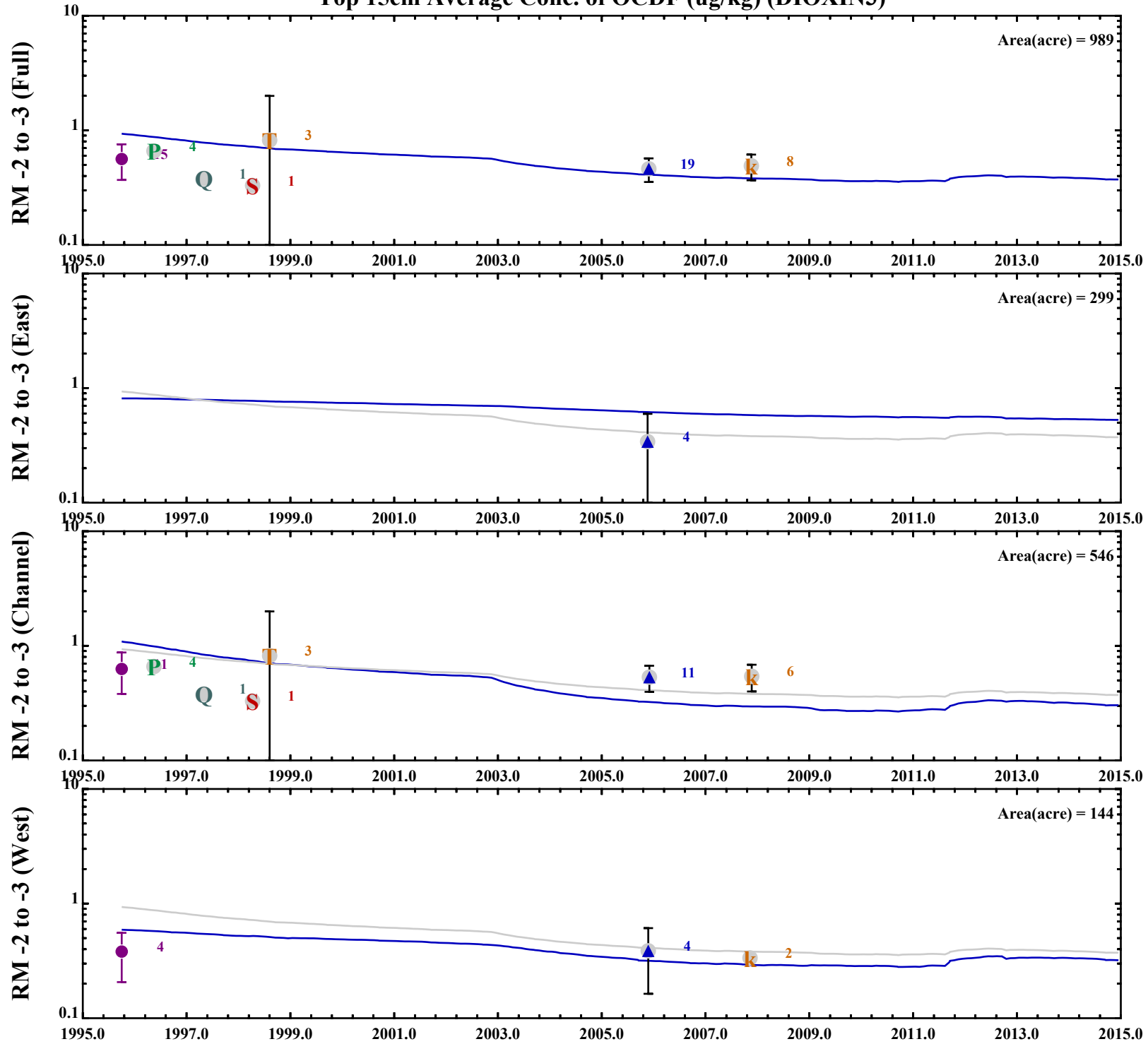
# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)

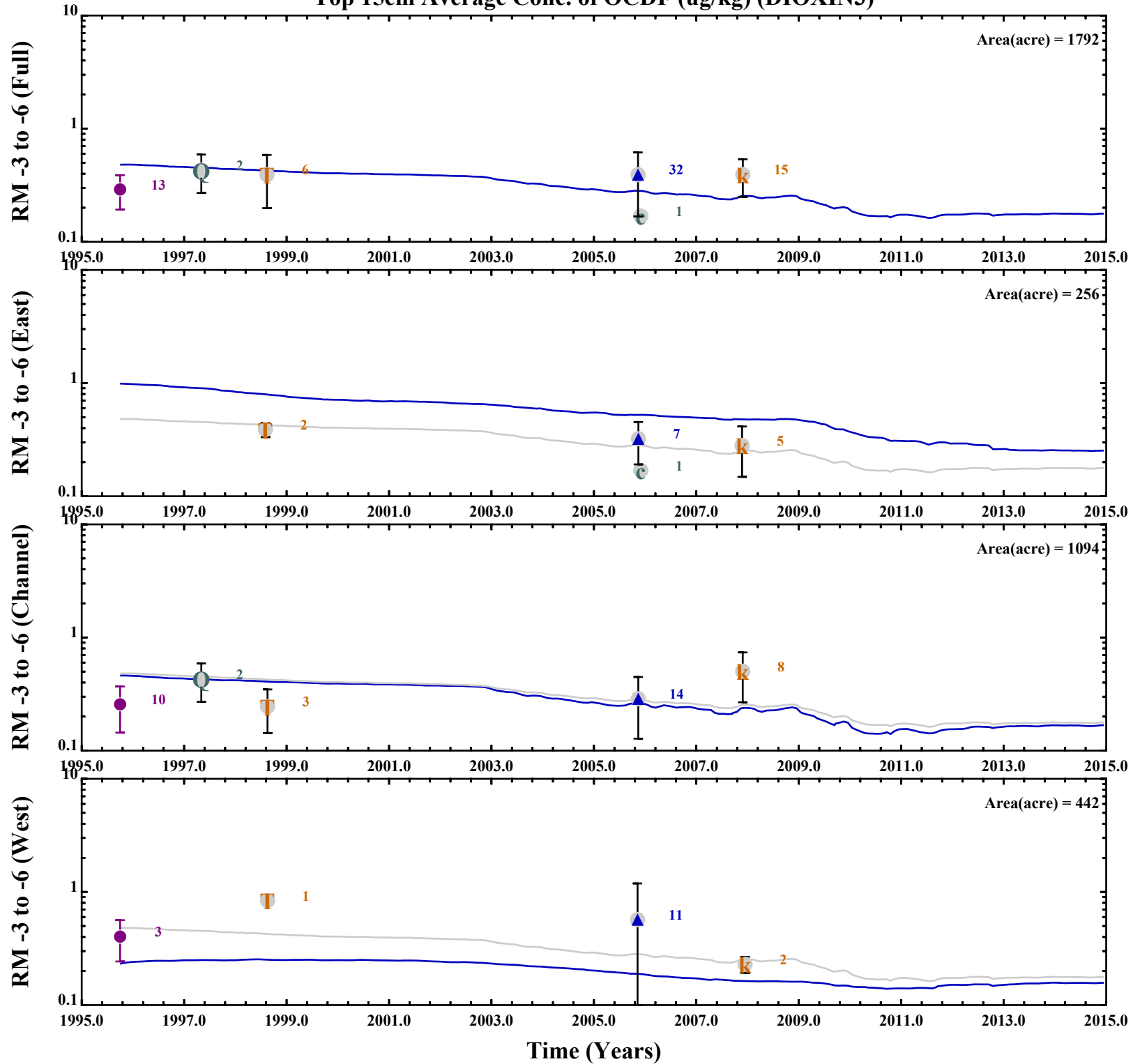


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— No Action Gradient IC, Reach Scale Up  
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Time (Years)

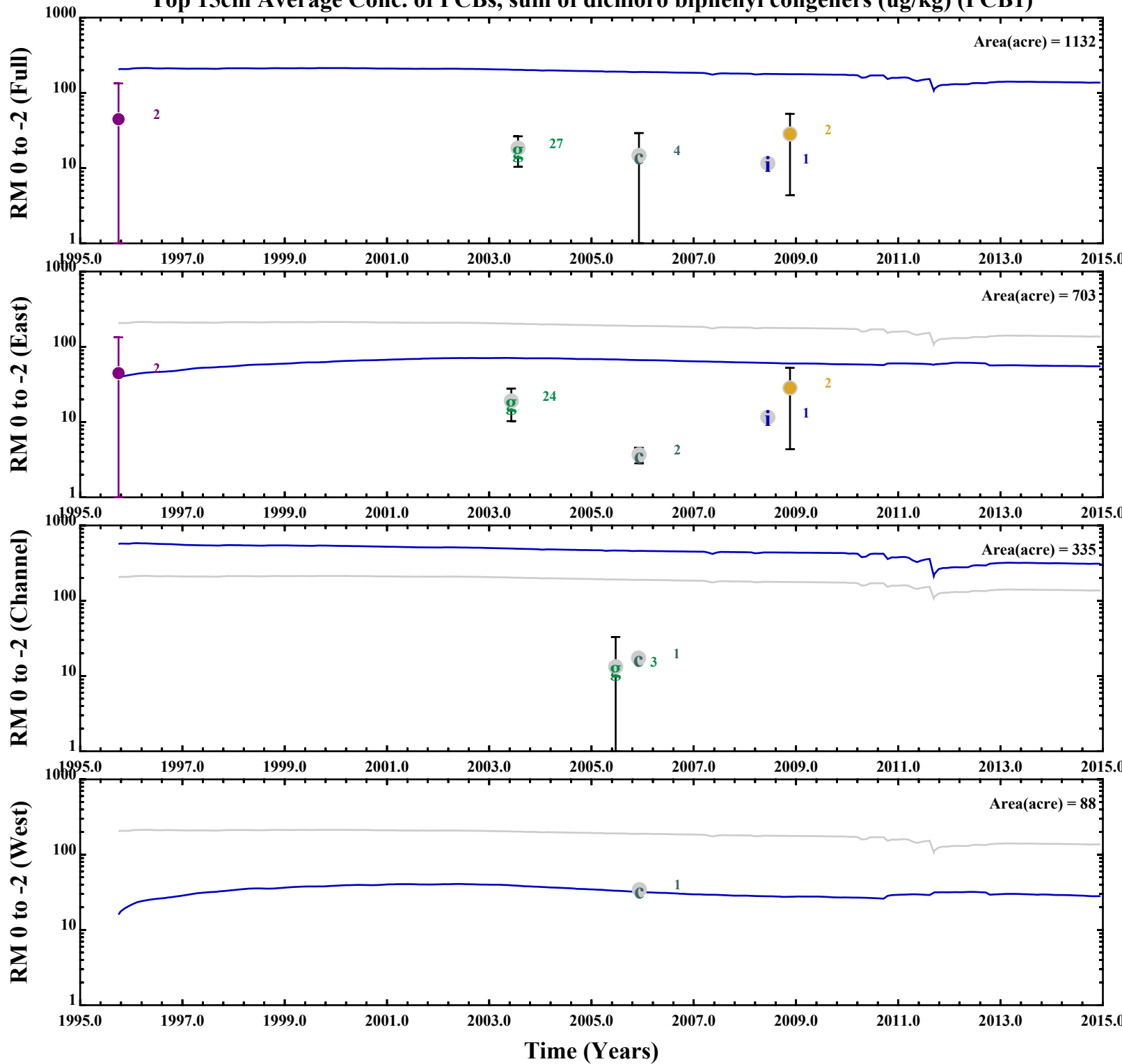
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

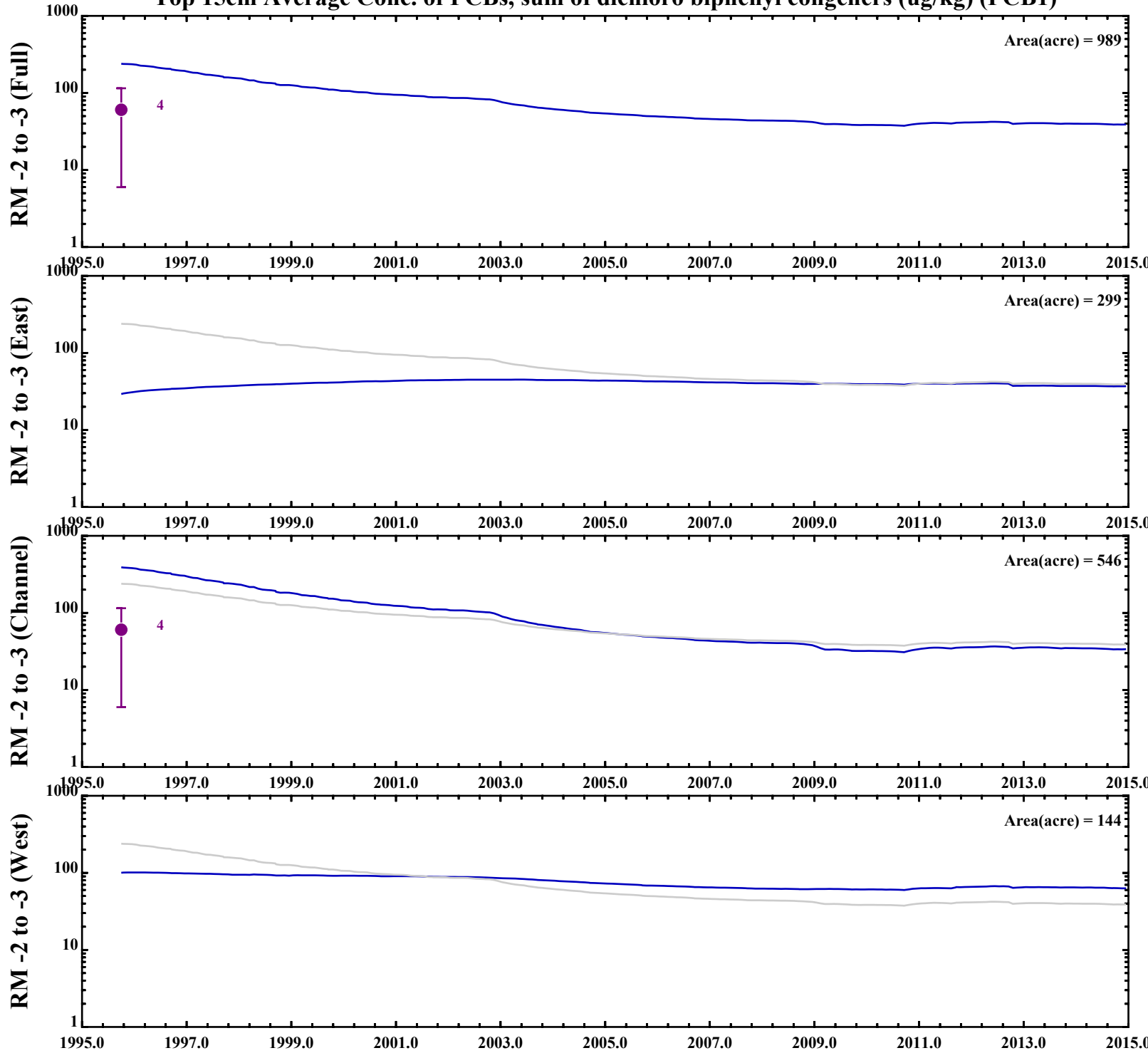
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

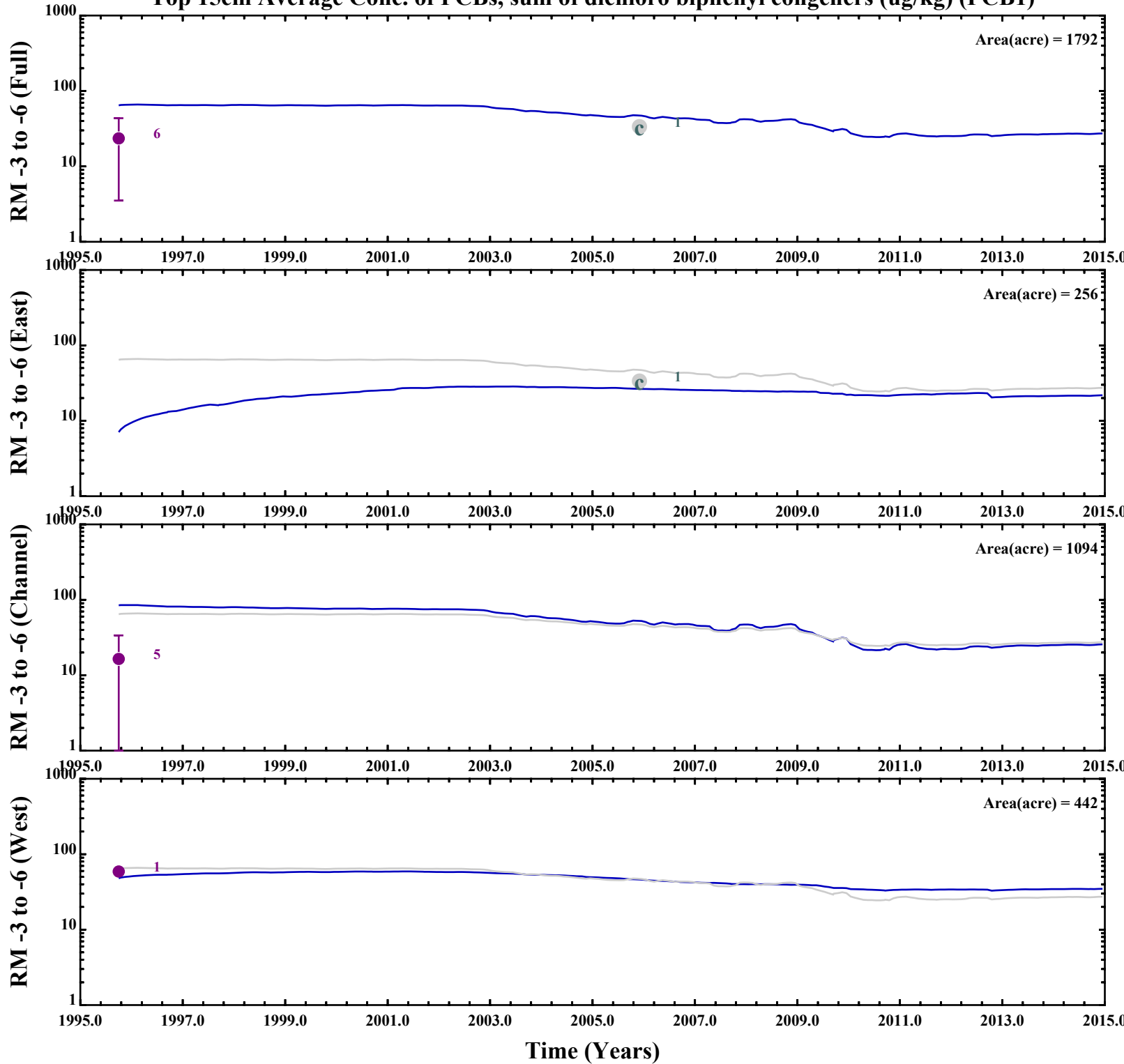
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- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

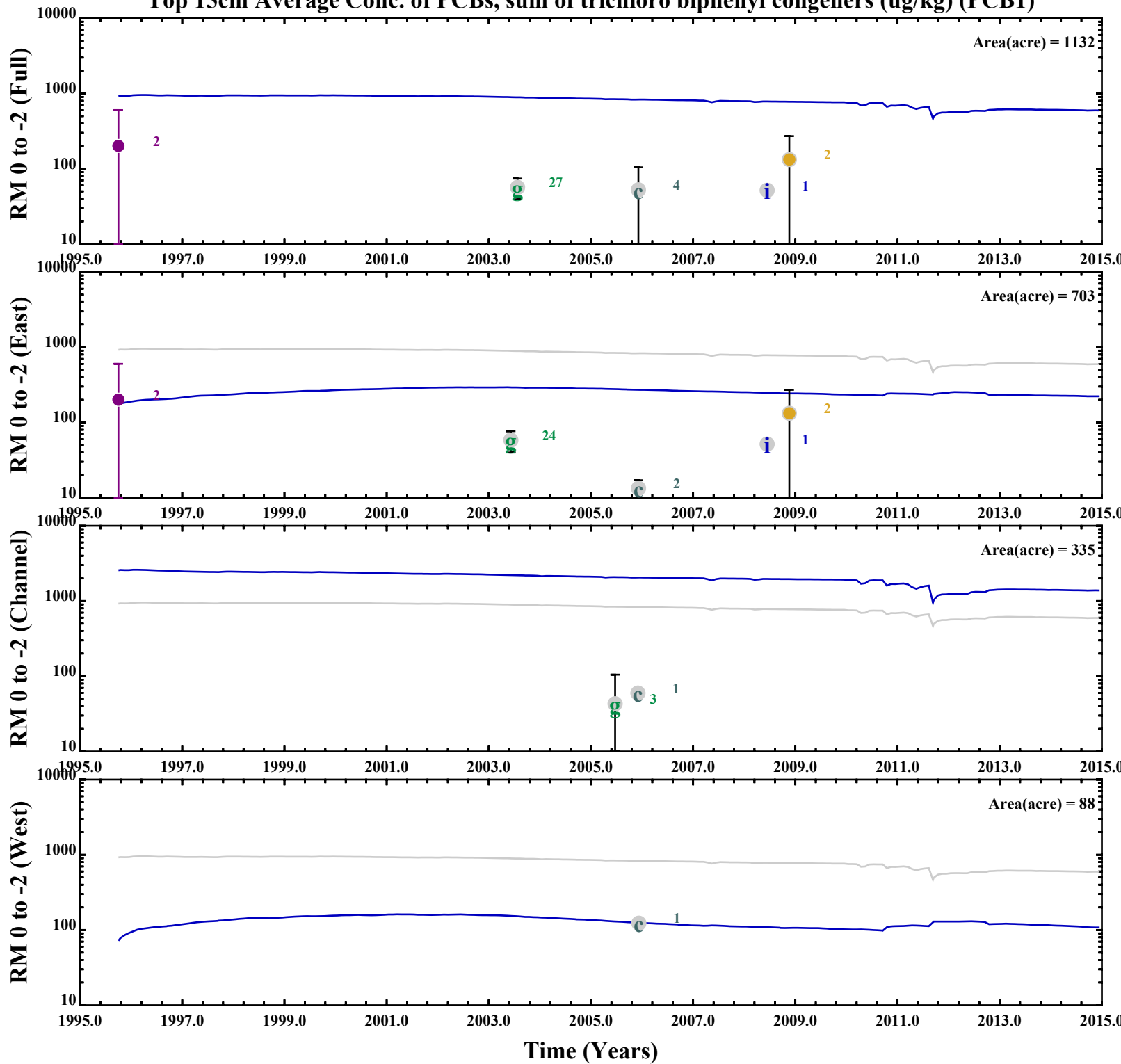
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

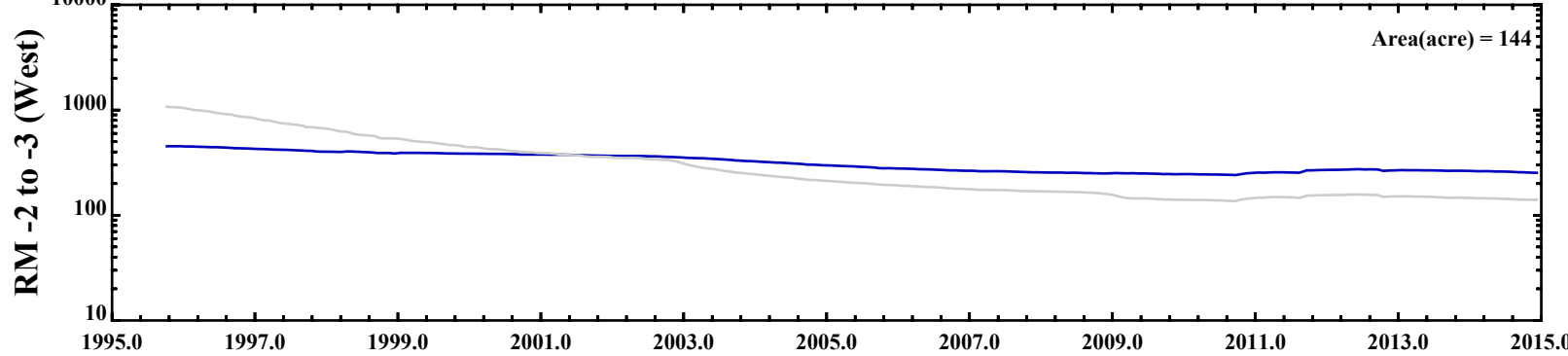
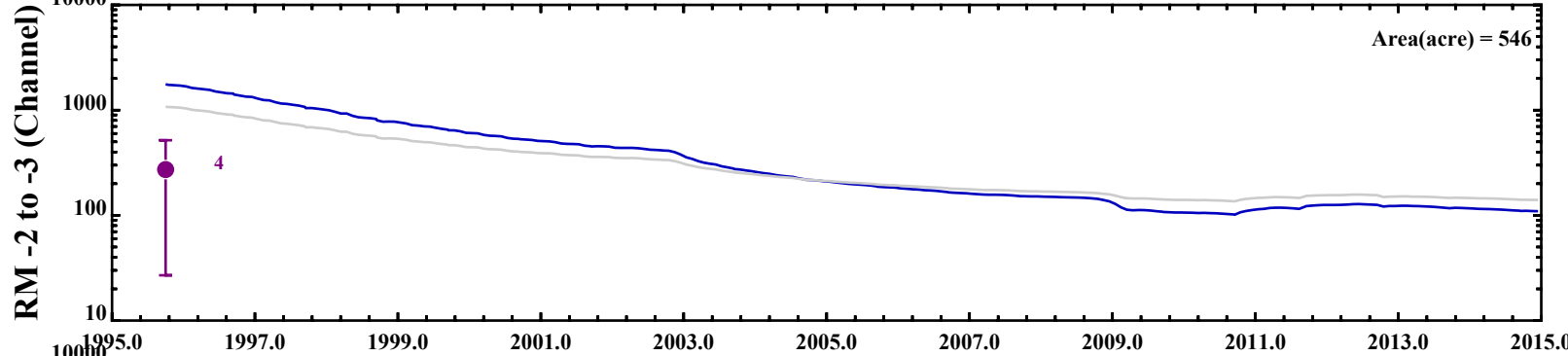
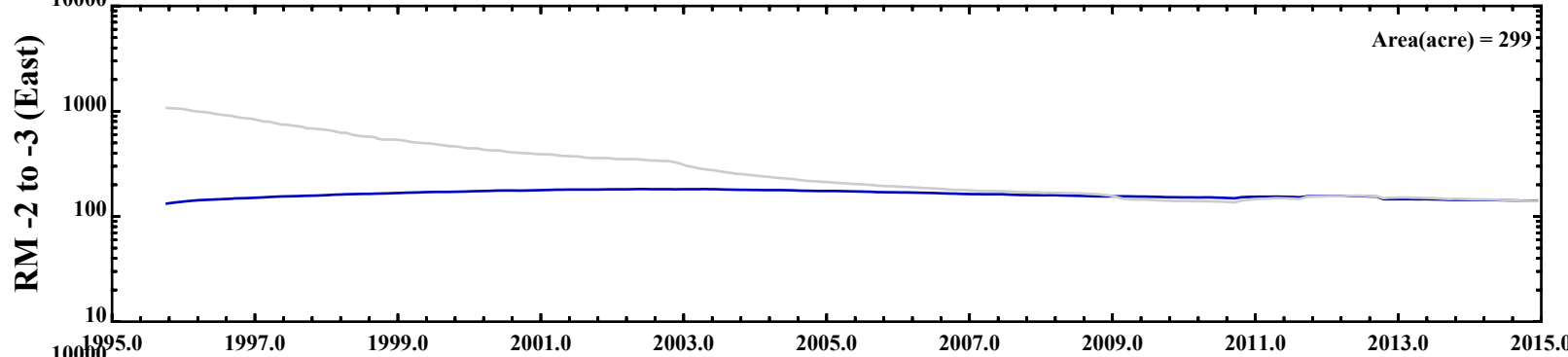
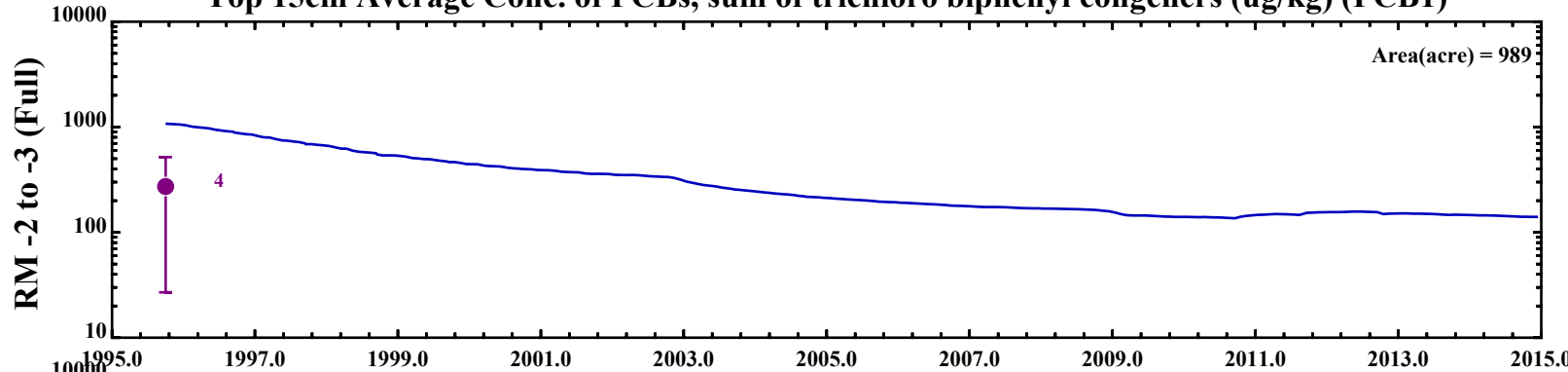
# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



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- A 1990 Surficial Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



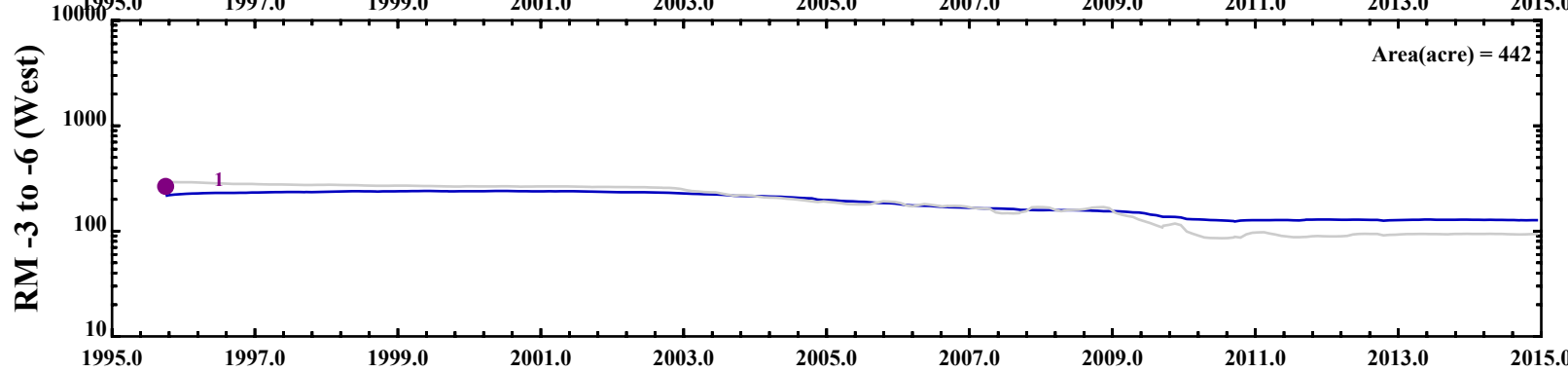
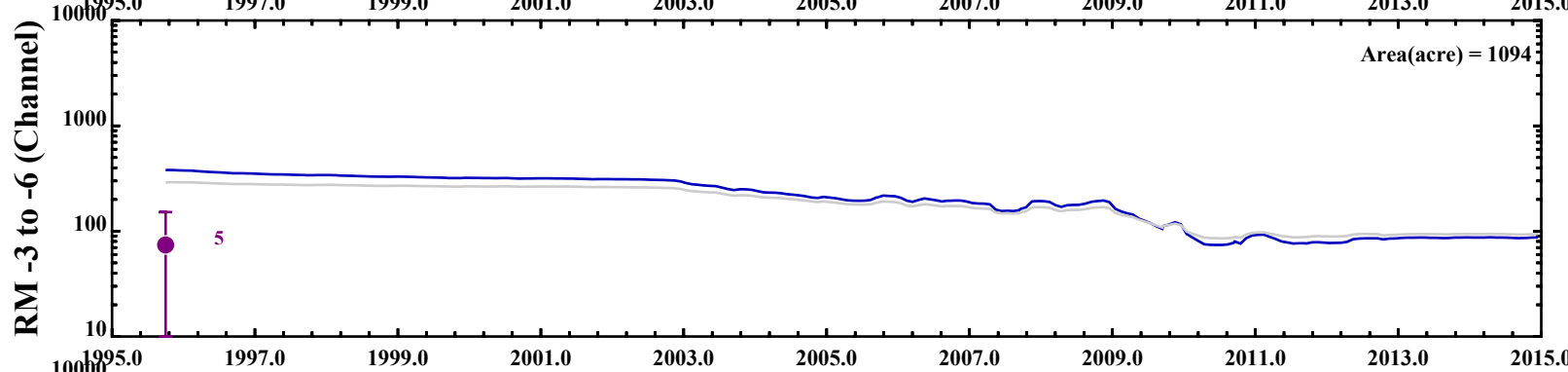
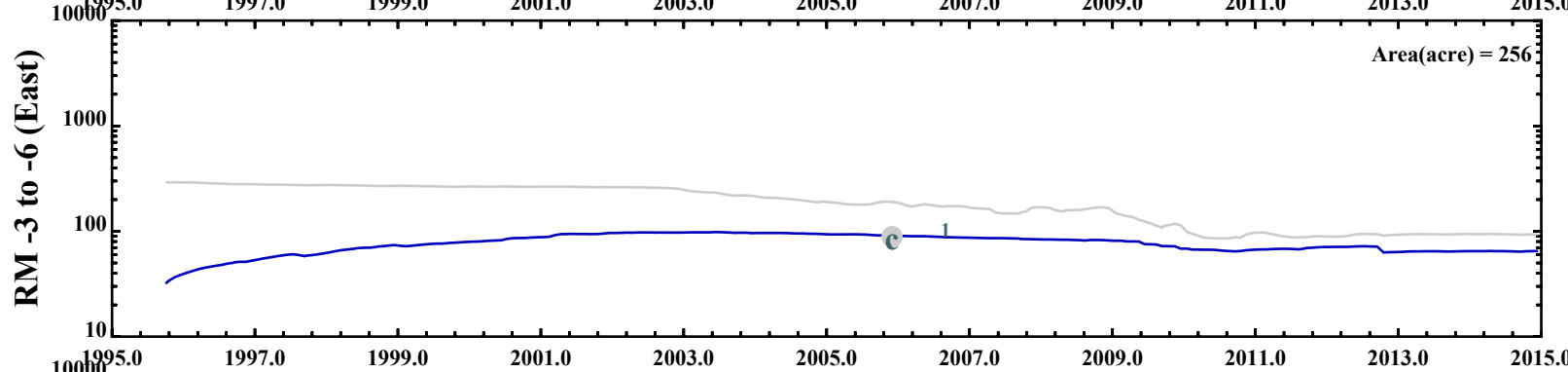
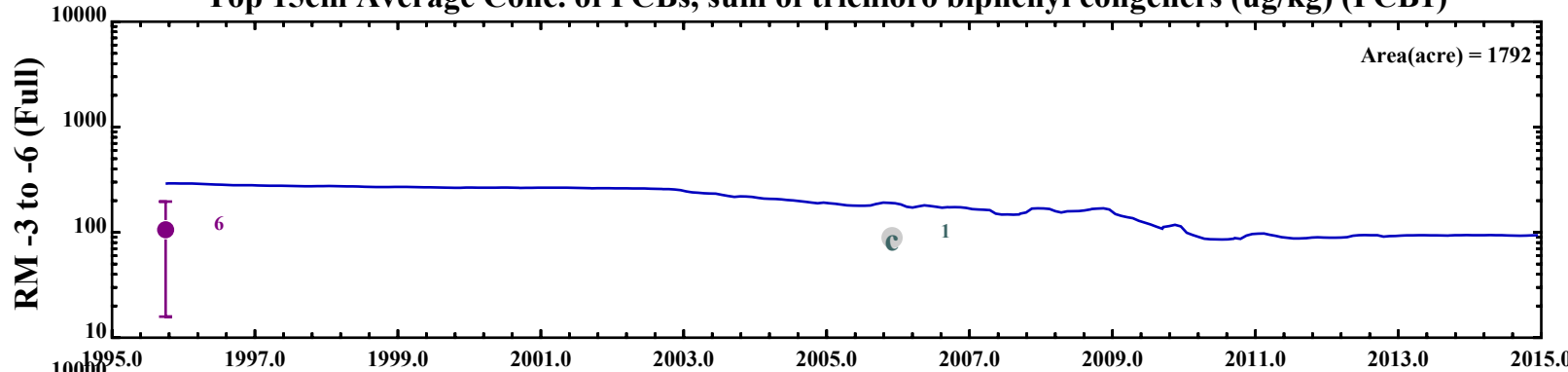
Time (Years)

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- ▲ 1990 Surficial Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

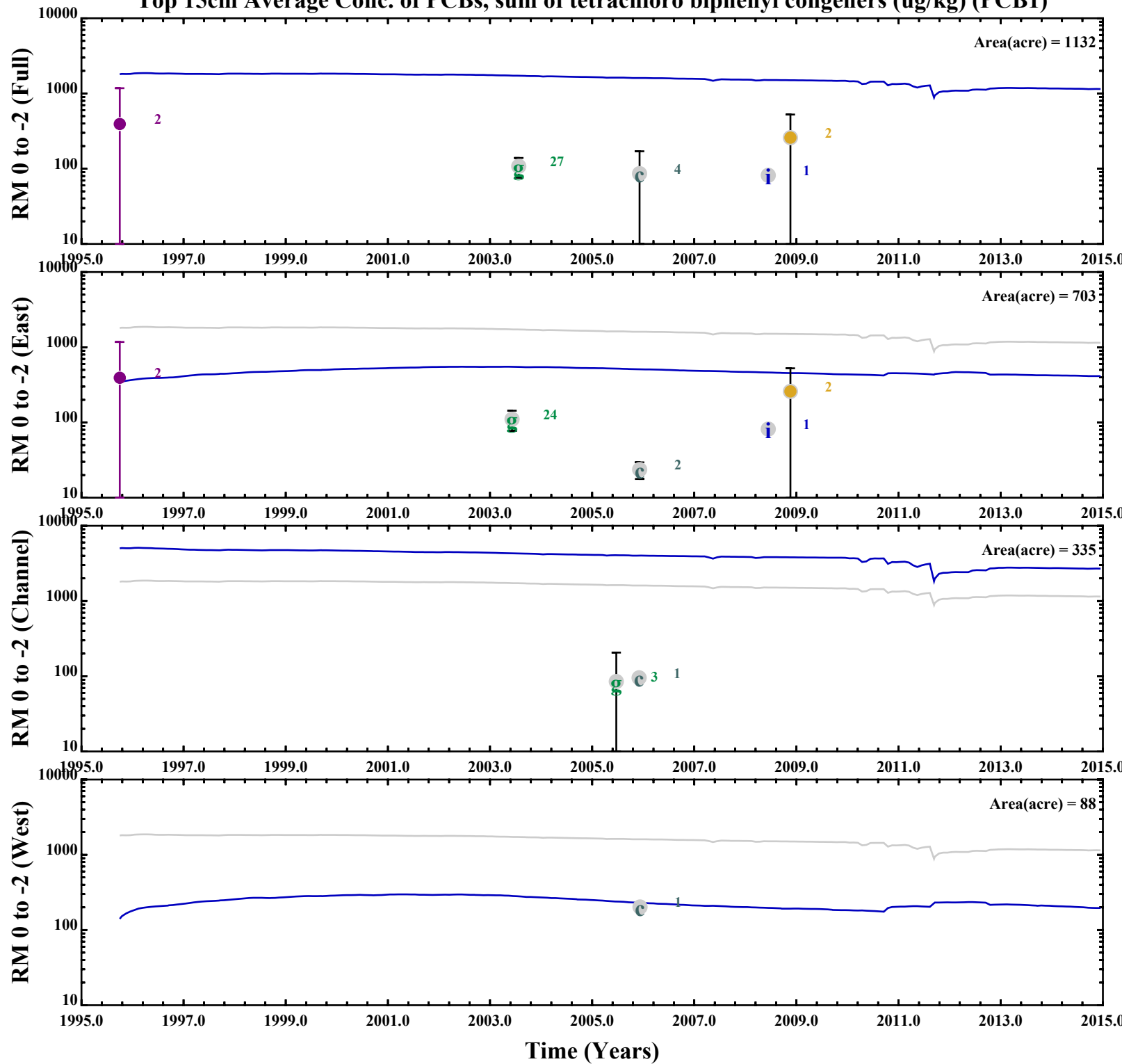


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

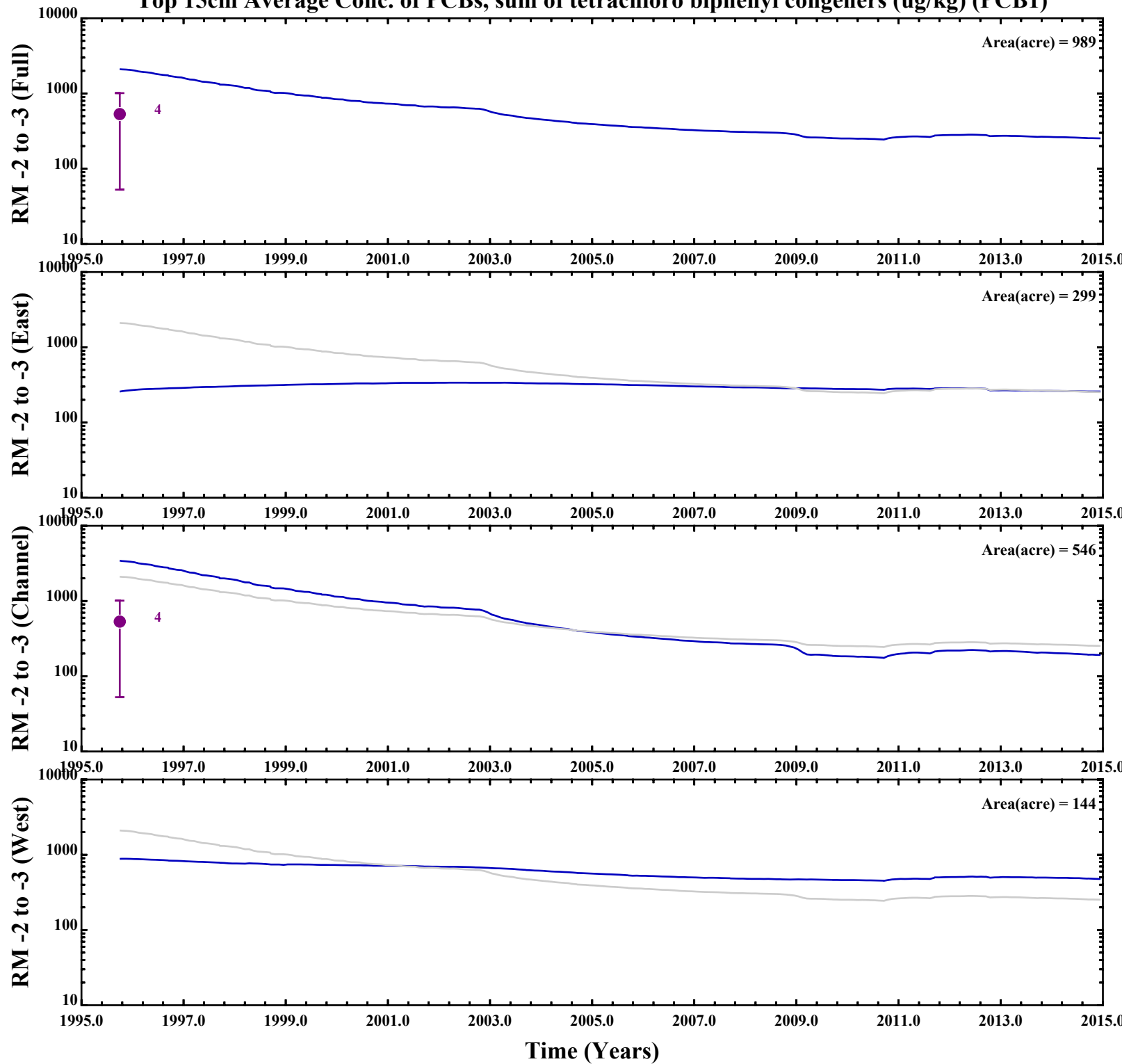
# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



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— No Action Gradient IC, Reach Scale Up  
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# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)

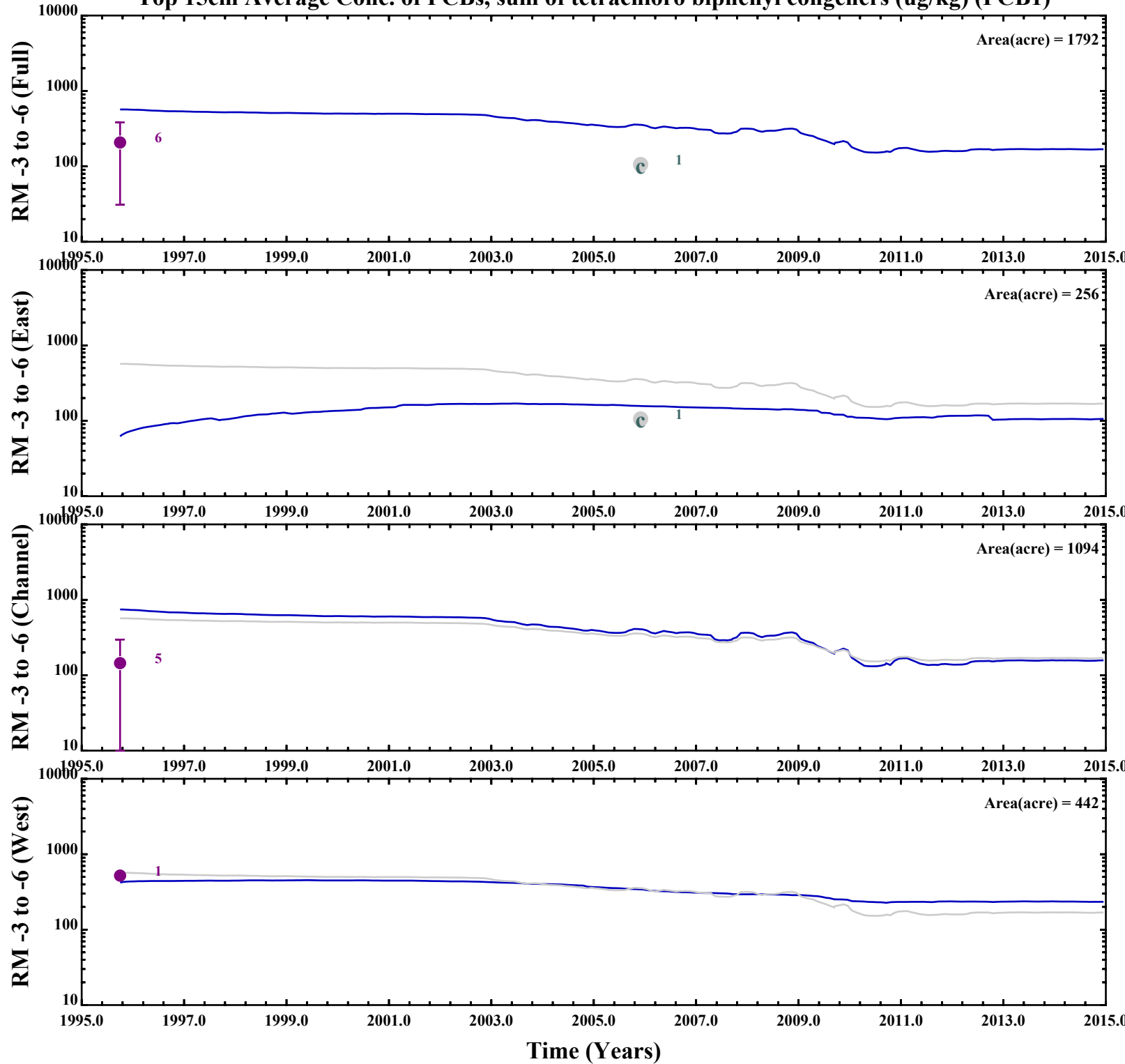


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— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

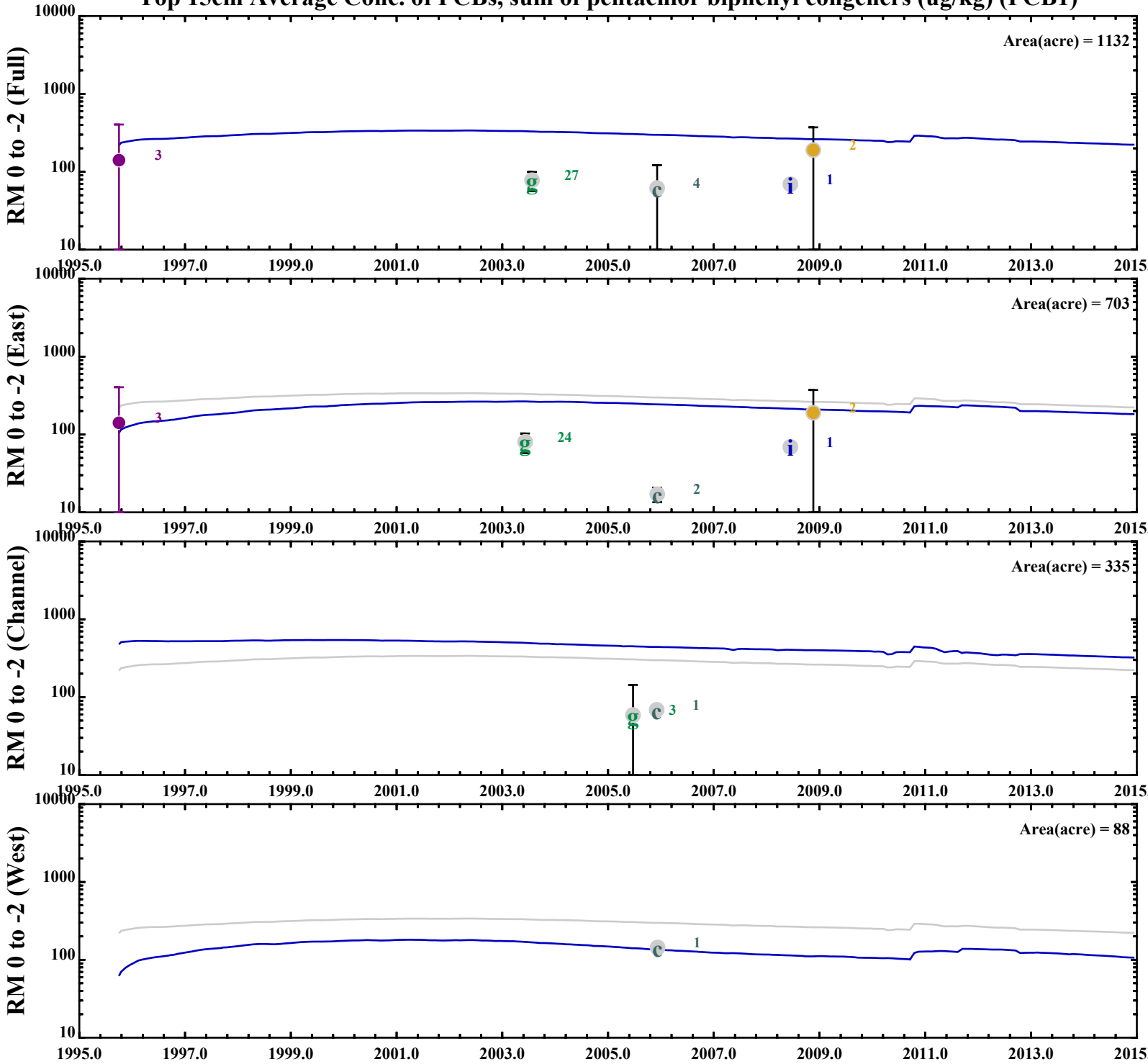
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

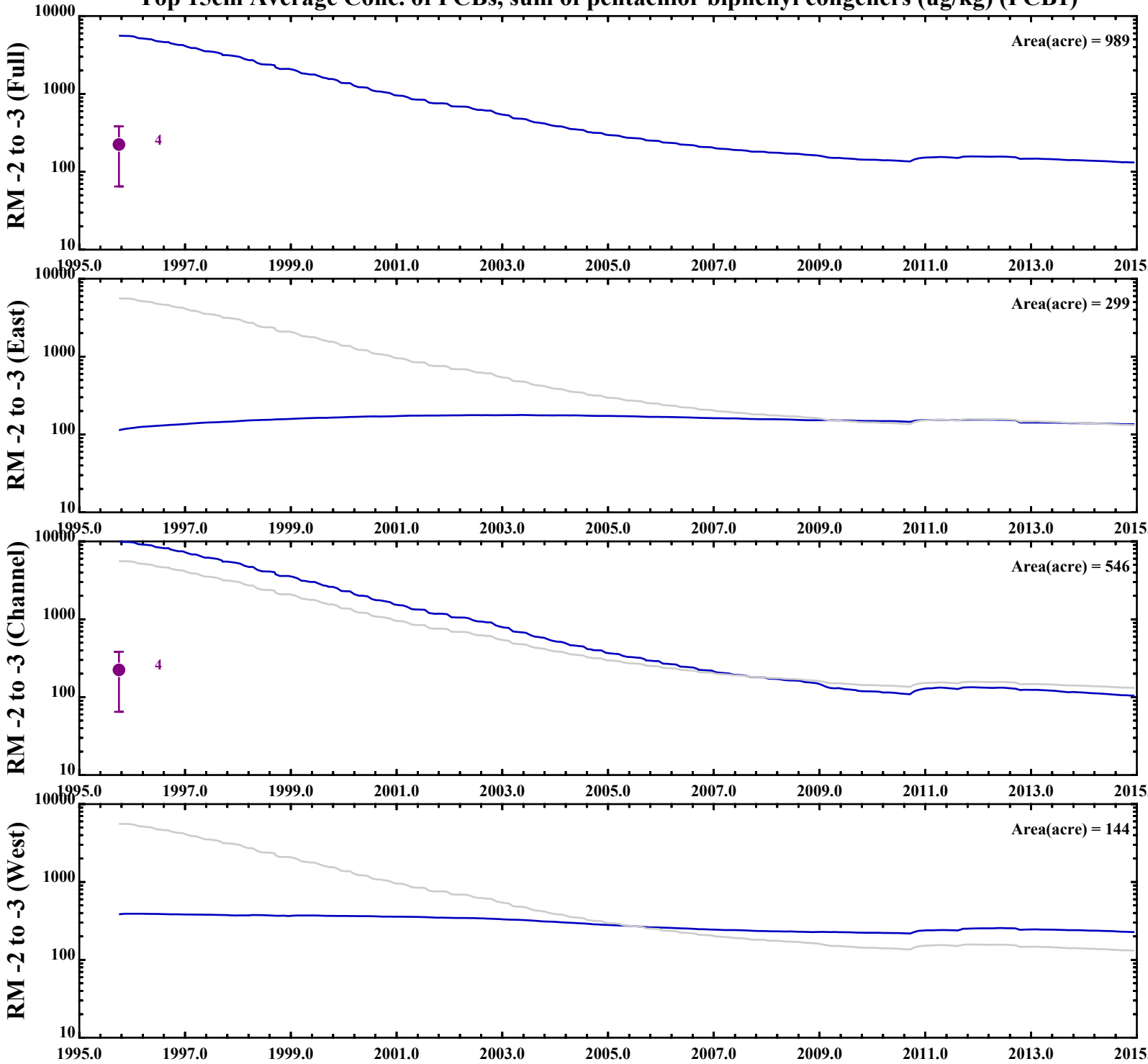


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— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

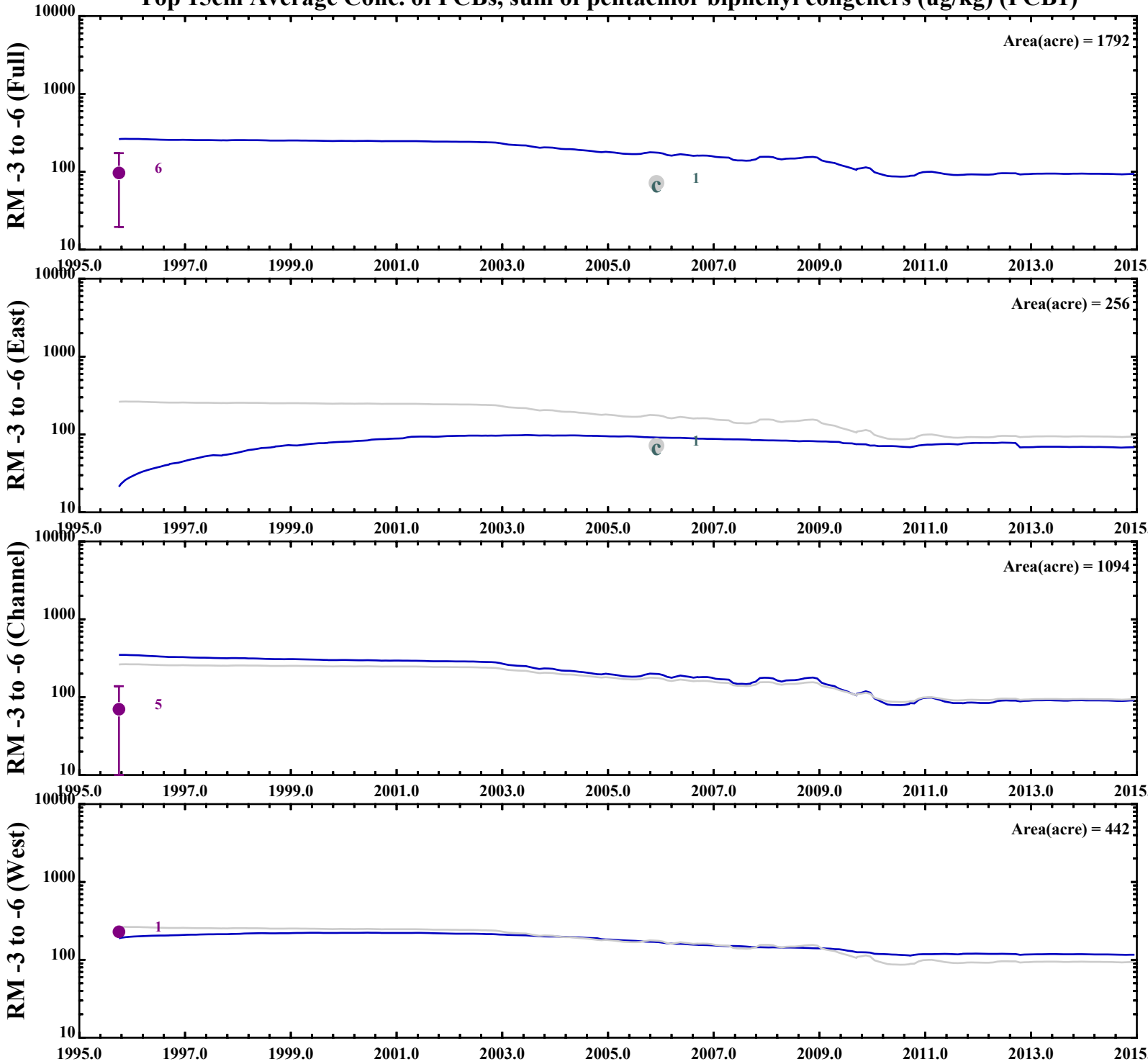


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- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

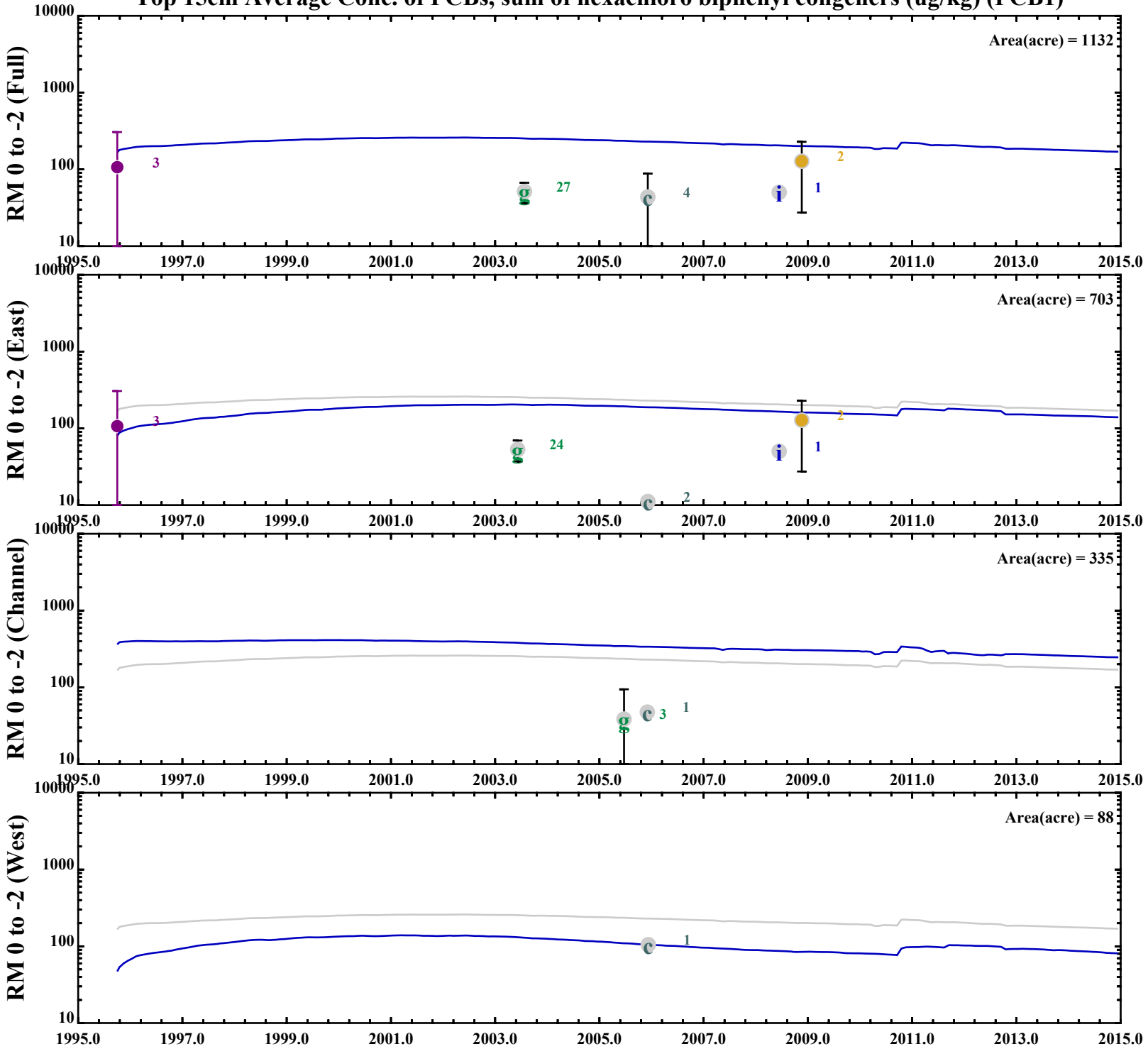
# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



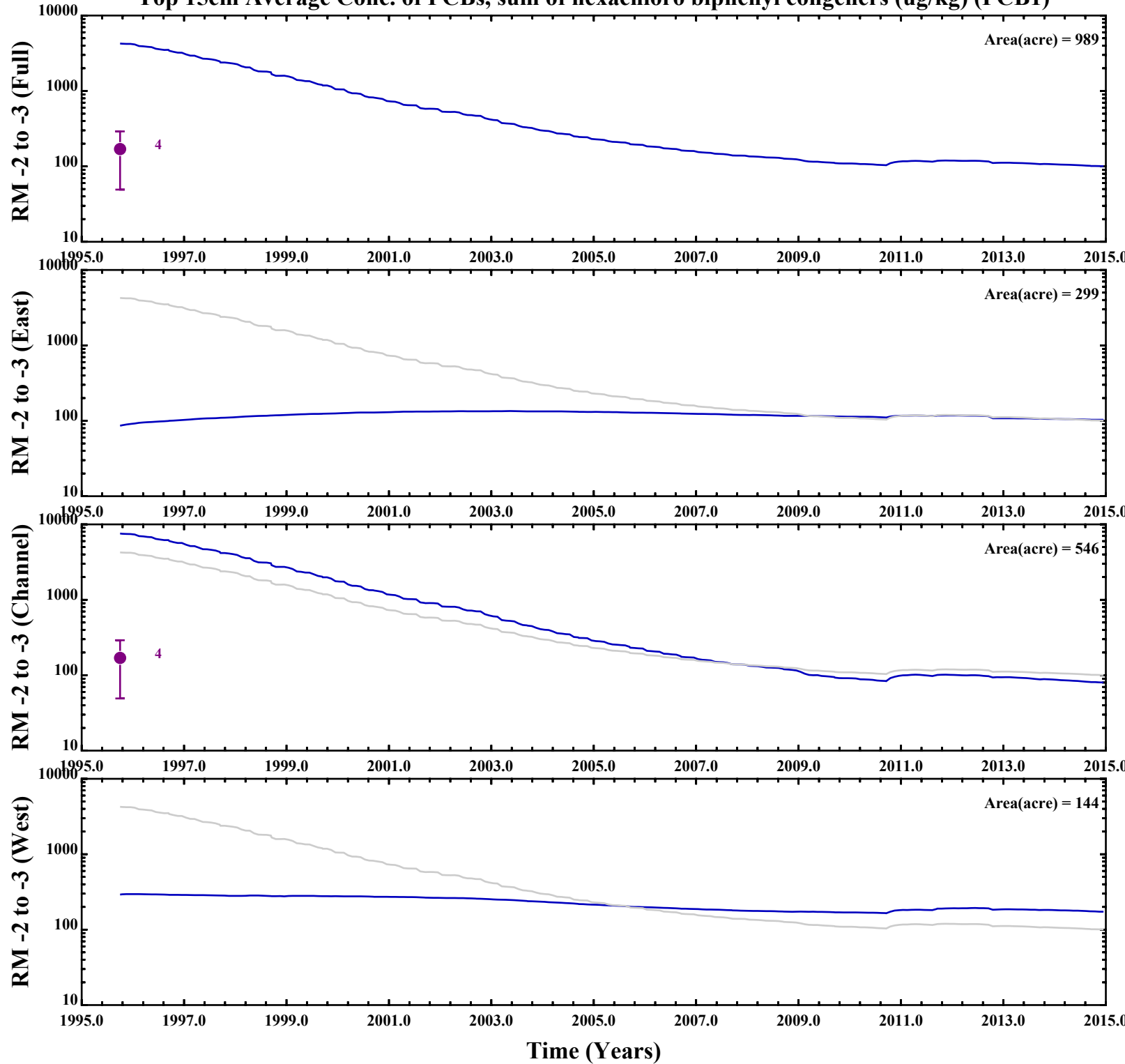
- Data used for ICs
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



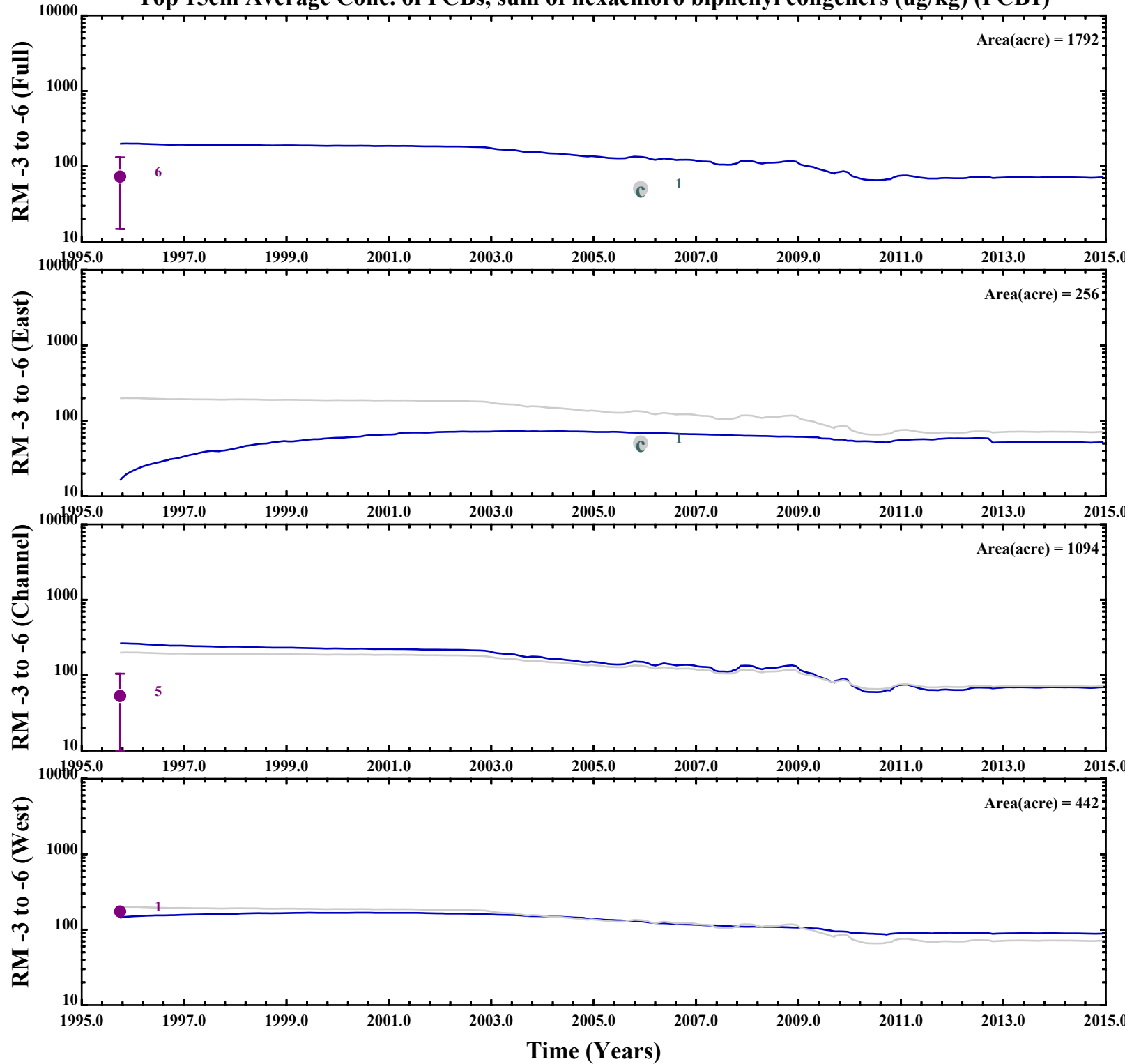
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

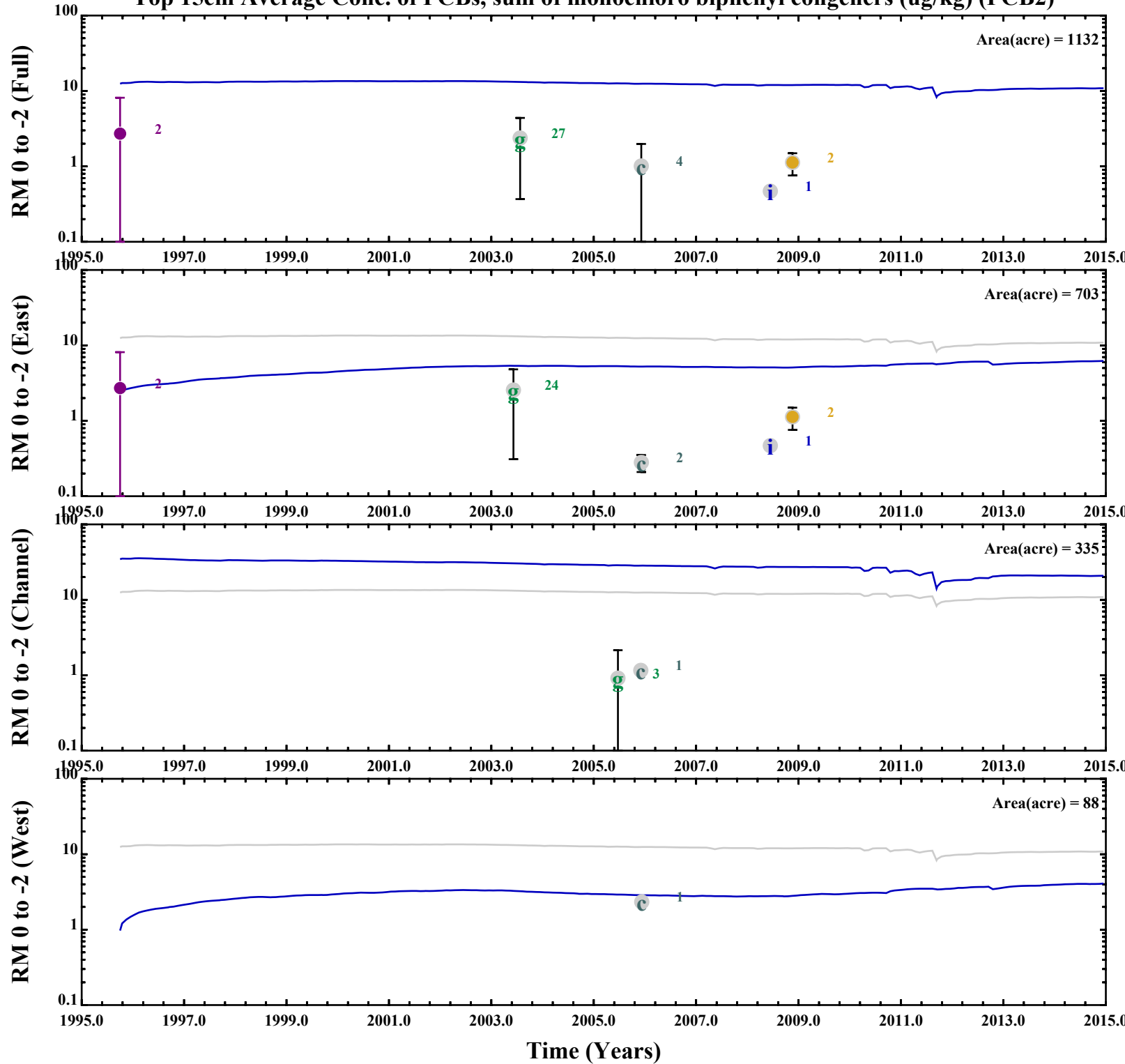
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

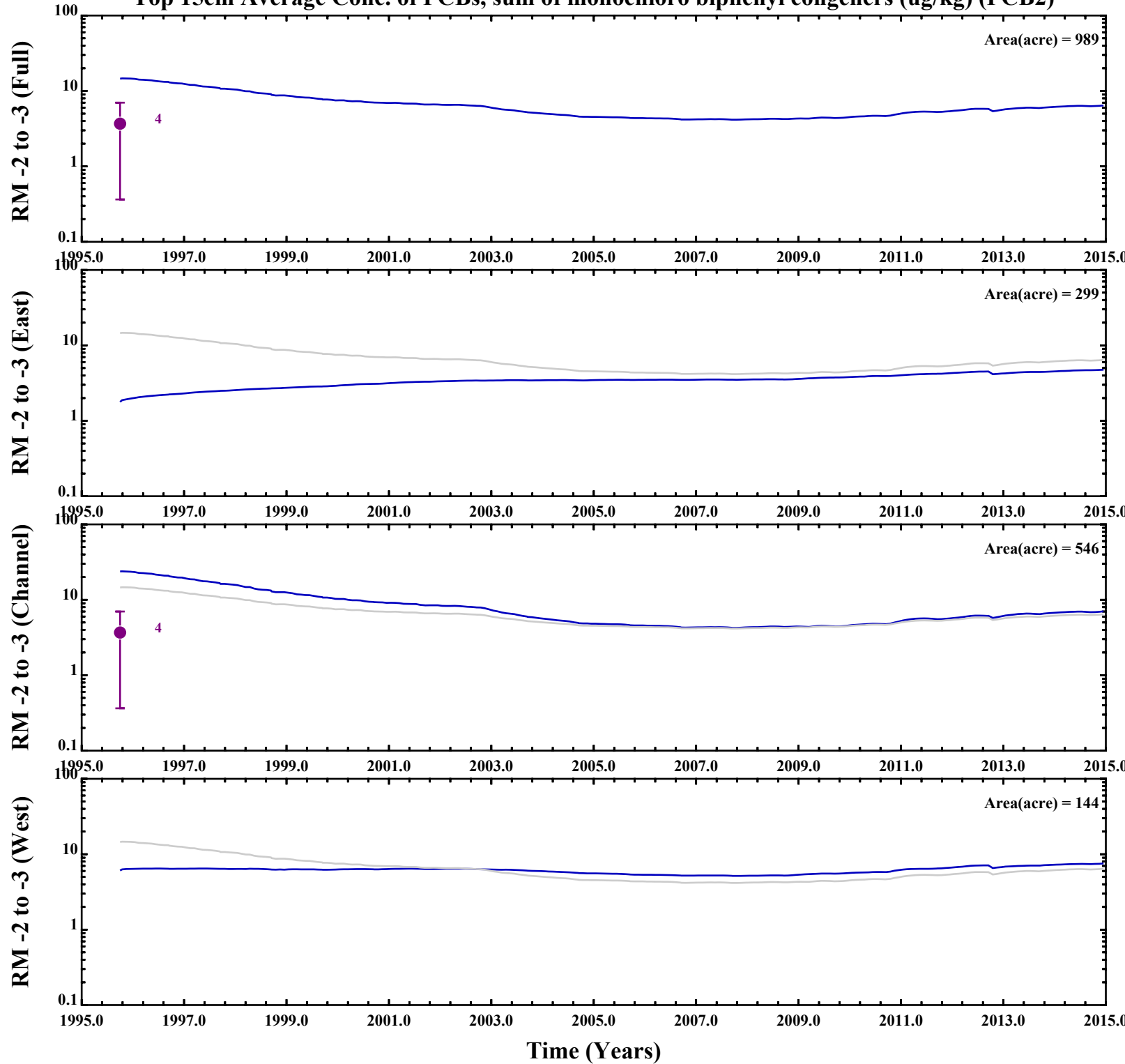
# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- I NOAA NS&T Hudson-Raritan Phase II, 1993
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- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

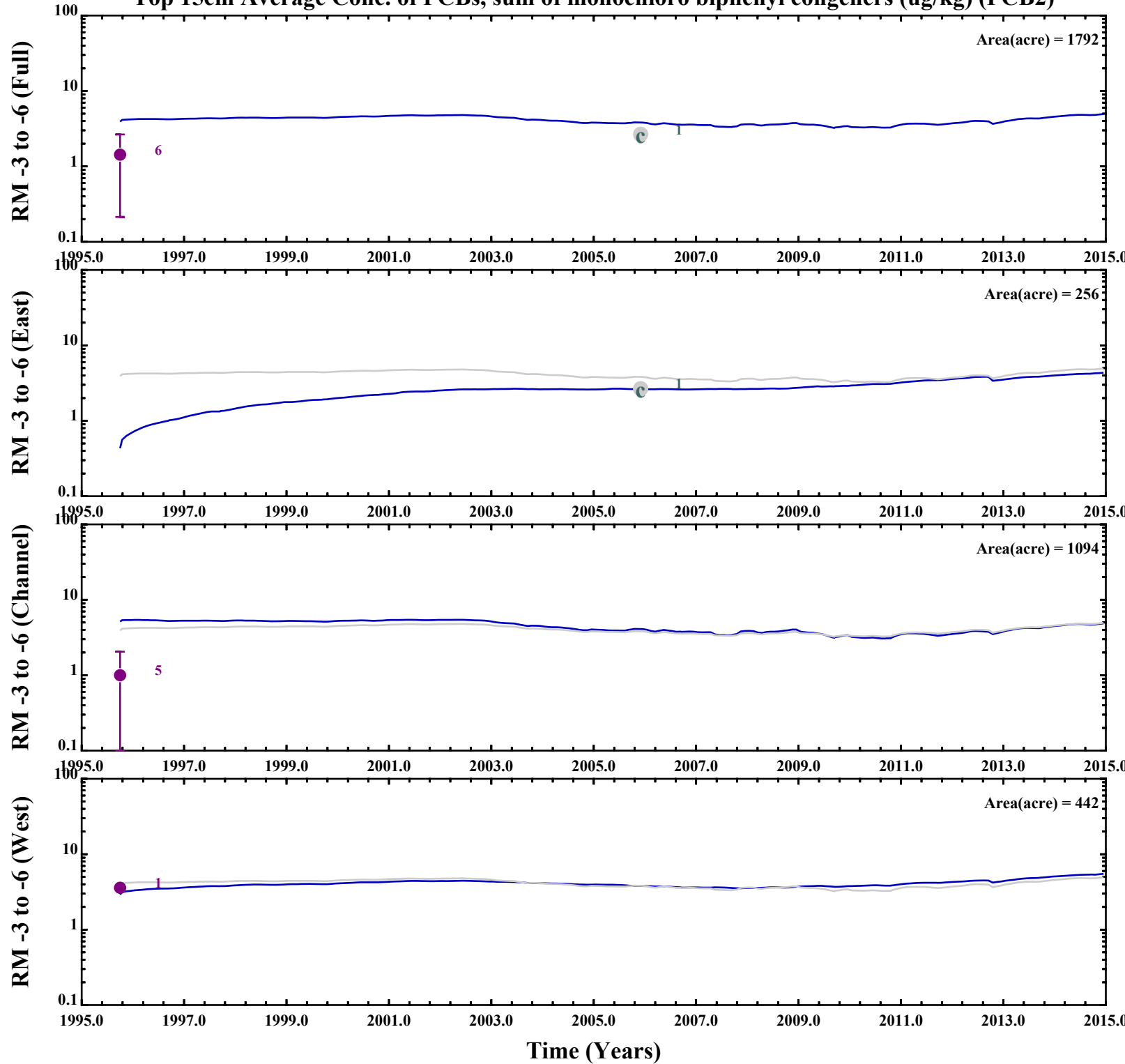


- Data used for ICs
- A 1990 Surficial Sediment Investigation
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- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

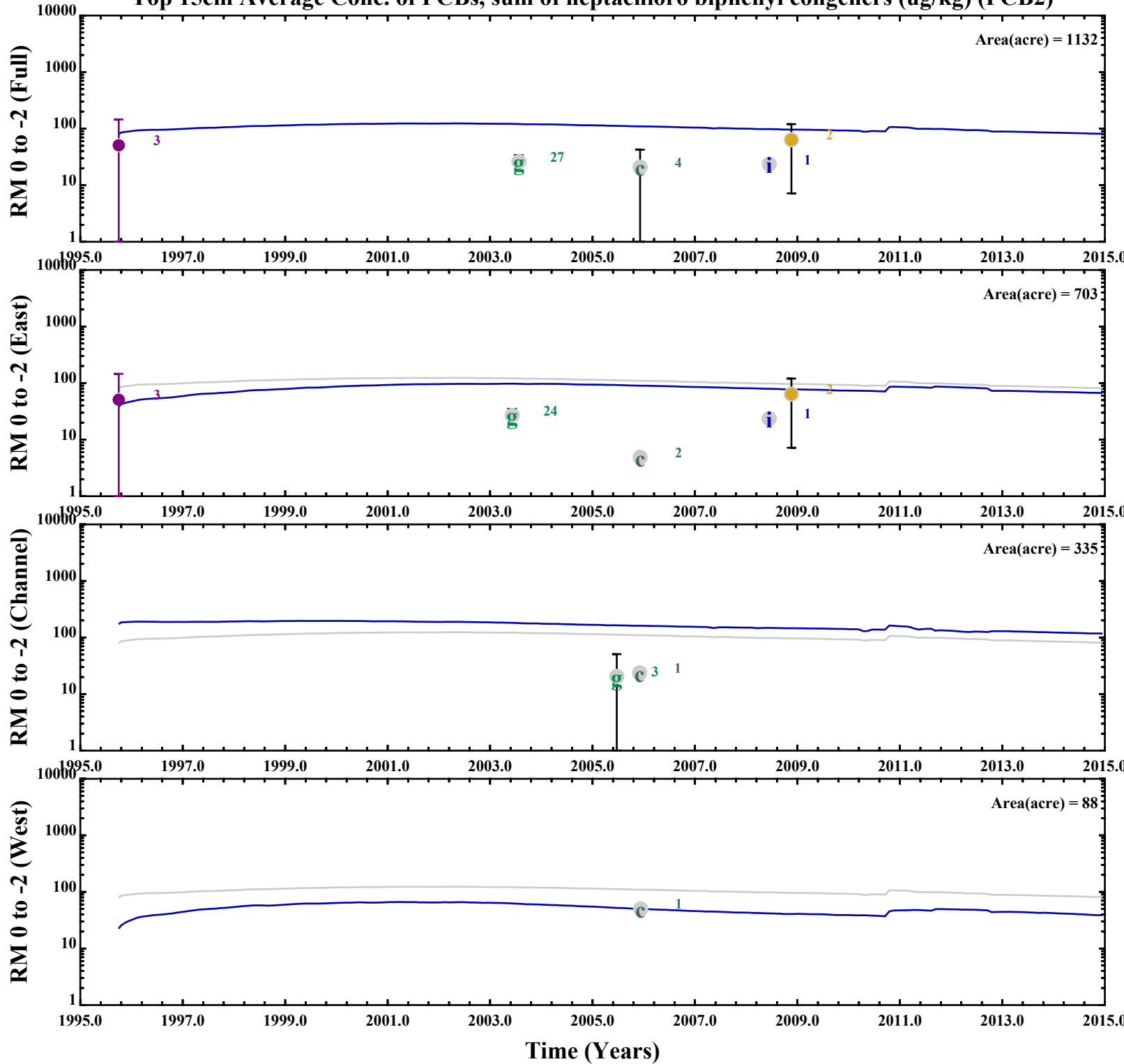
# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



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- A 1990 Surficial Sediment Investigation
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- r 2012 CDMSmith Background Benthic Sediment
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

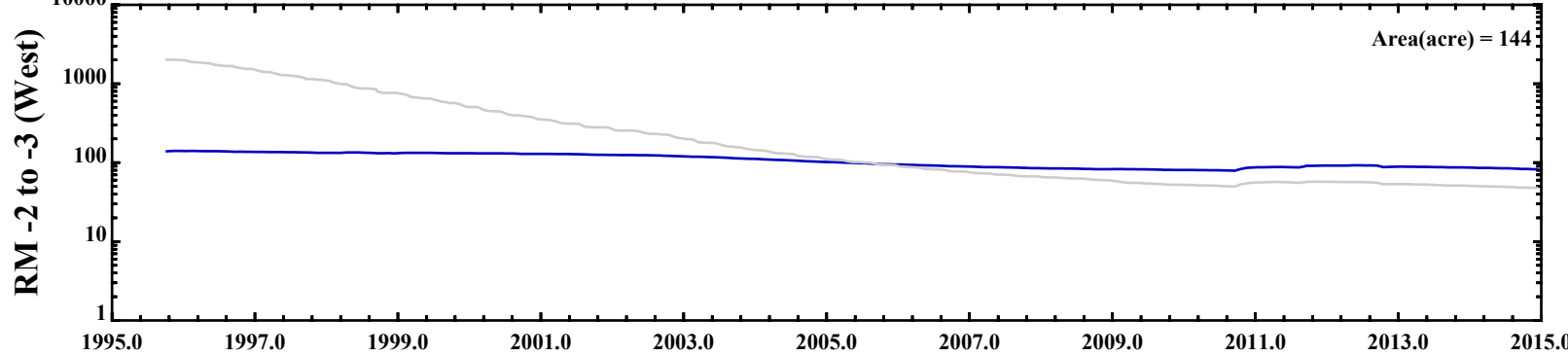
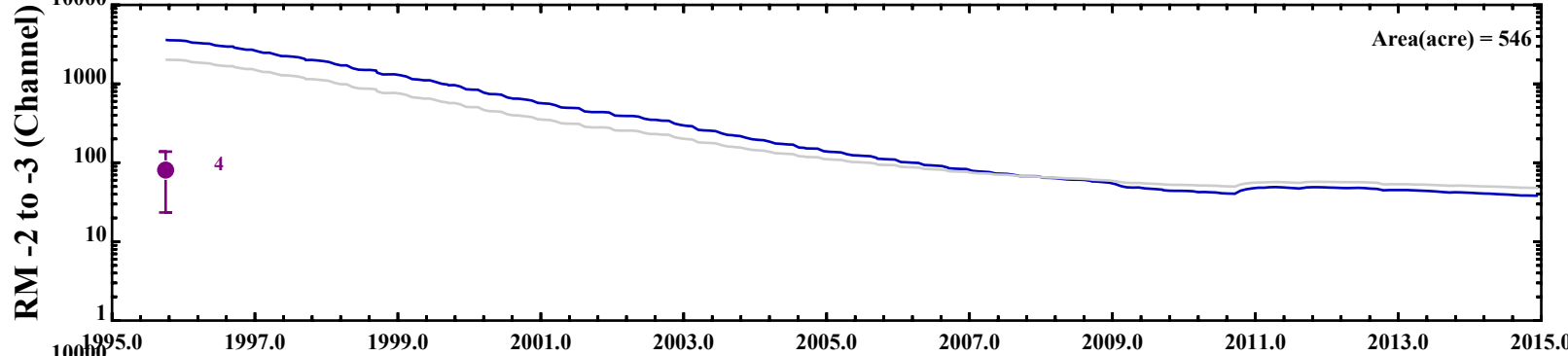
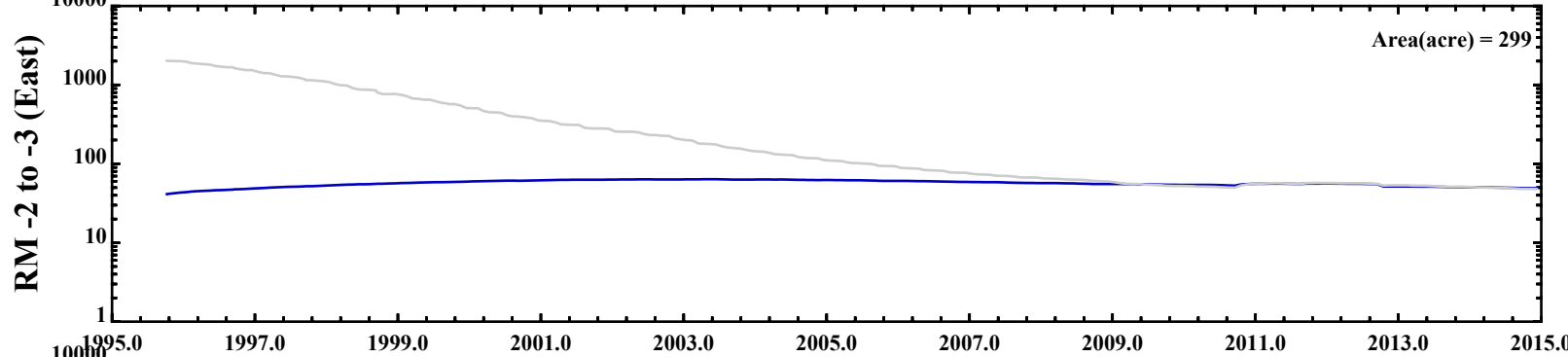
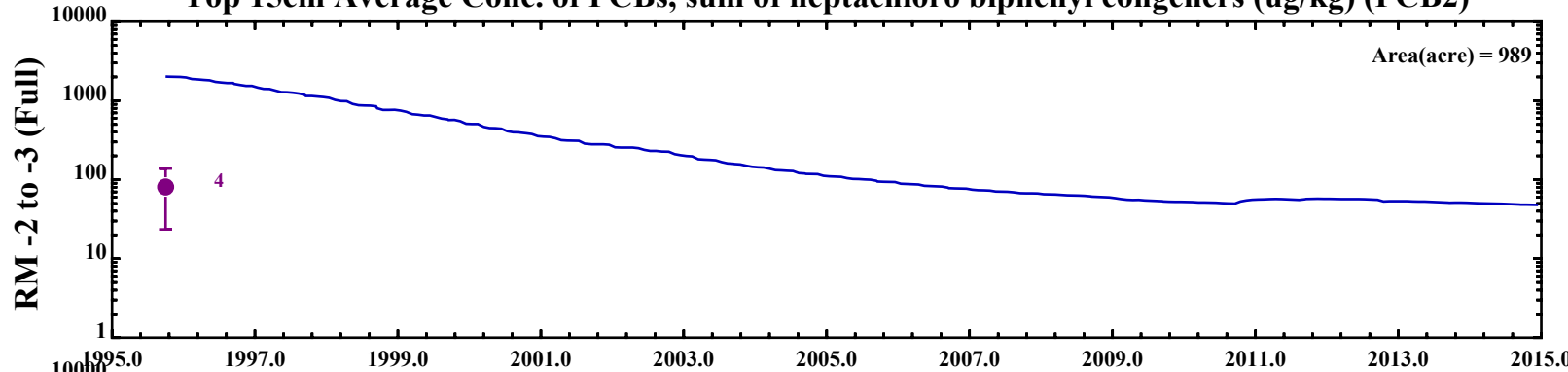
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)

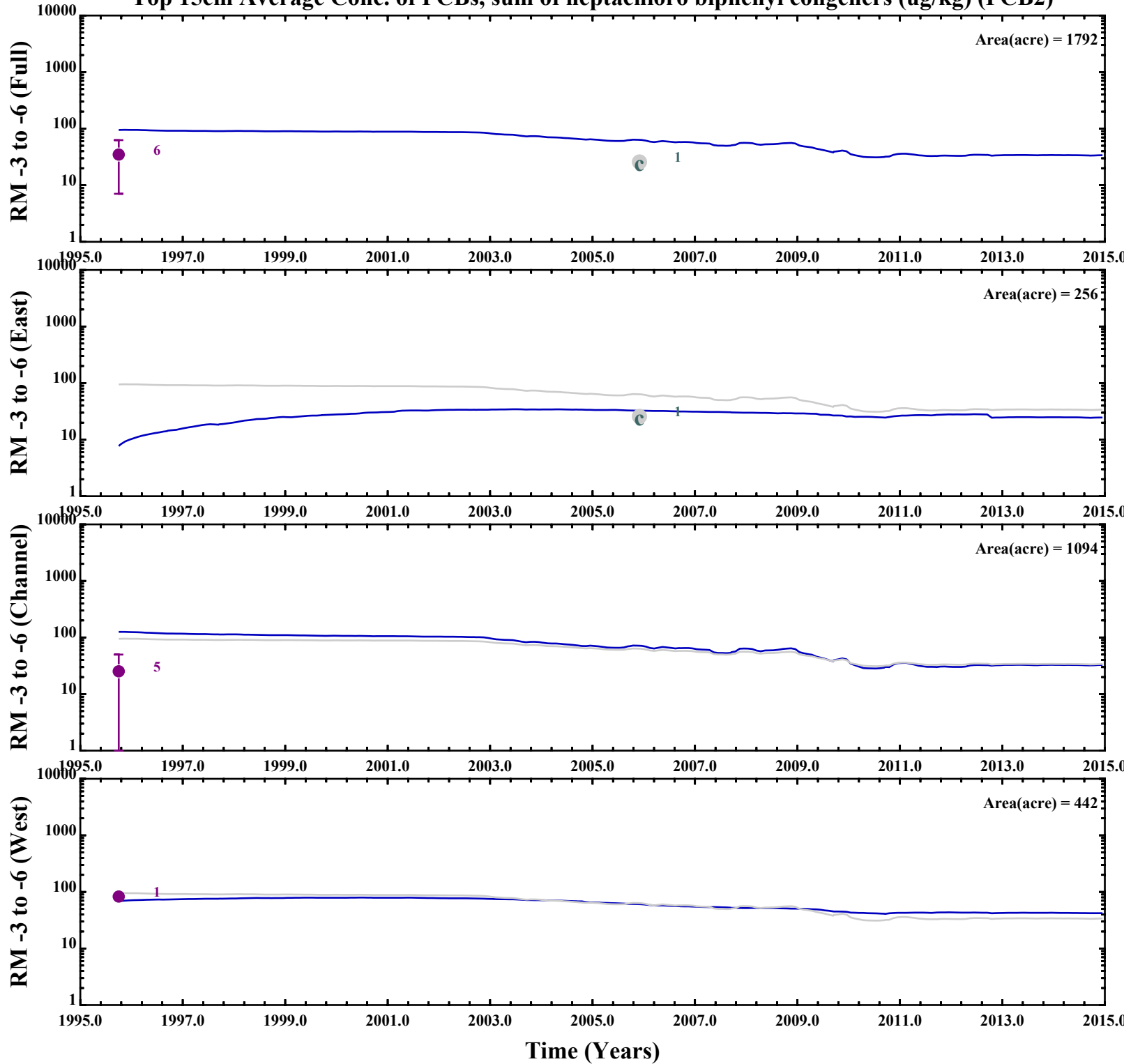


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)

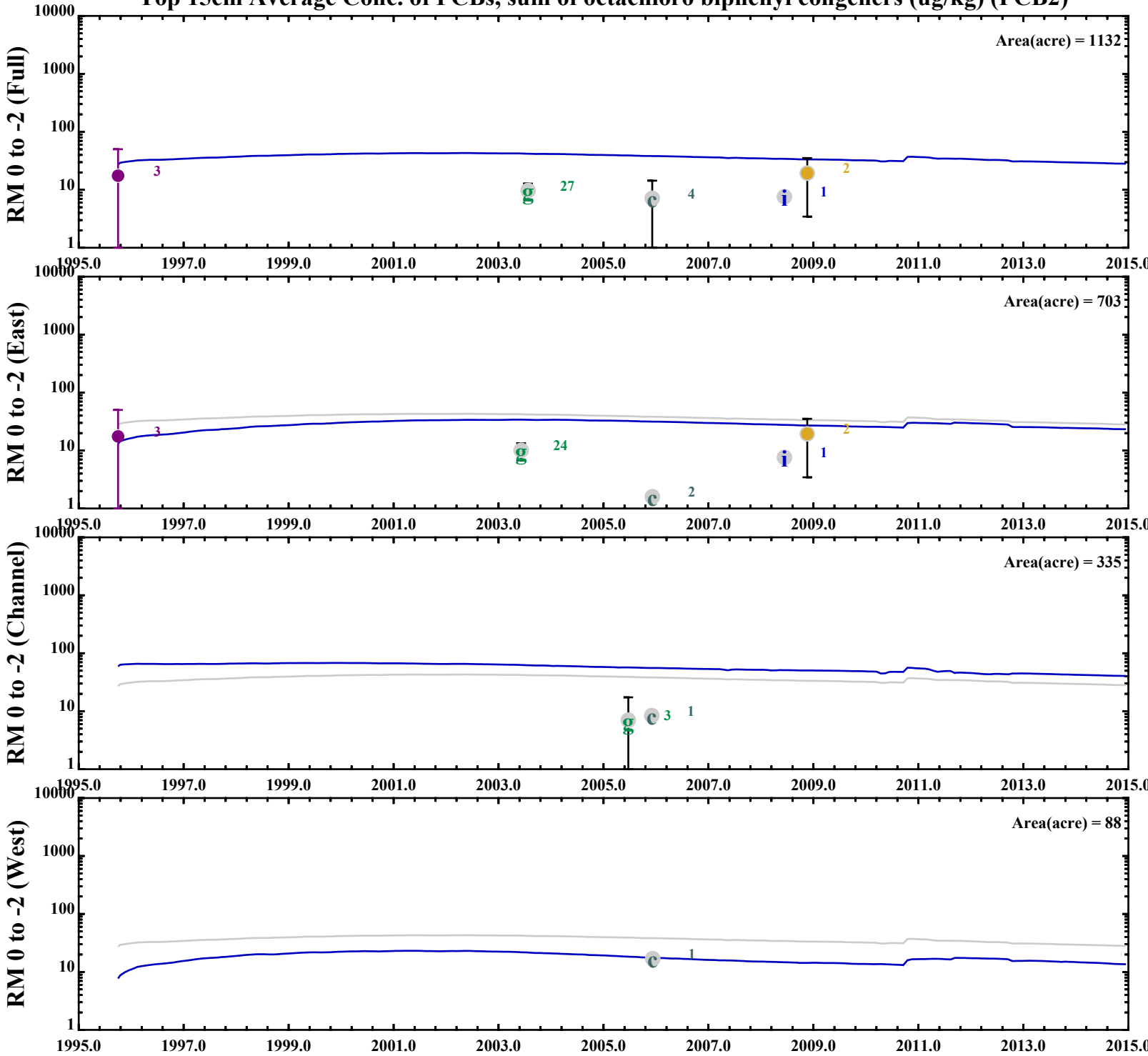


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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

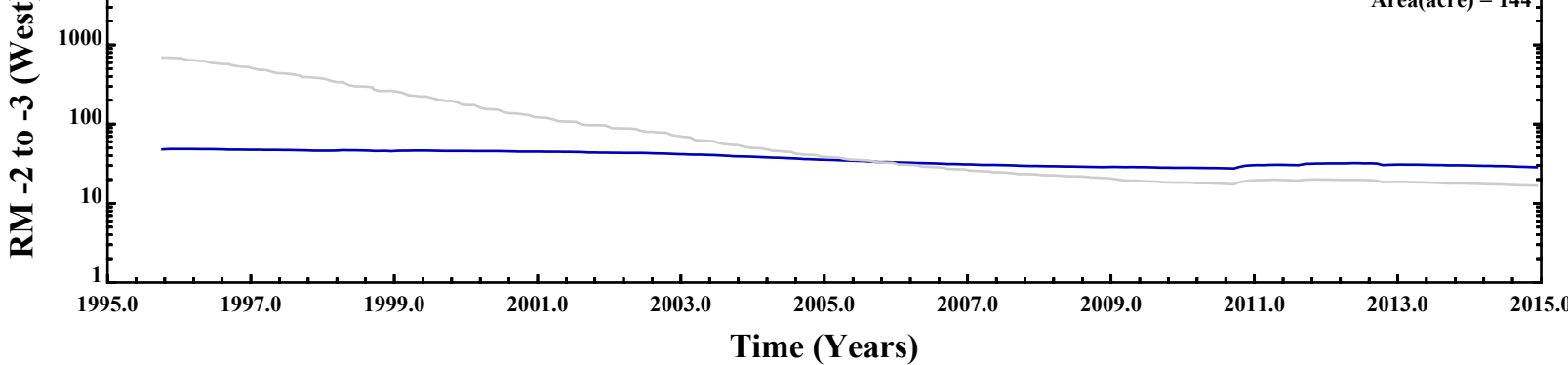
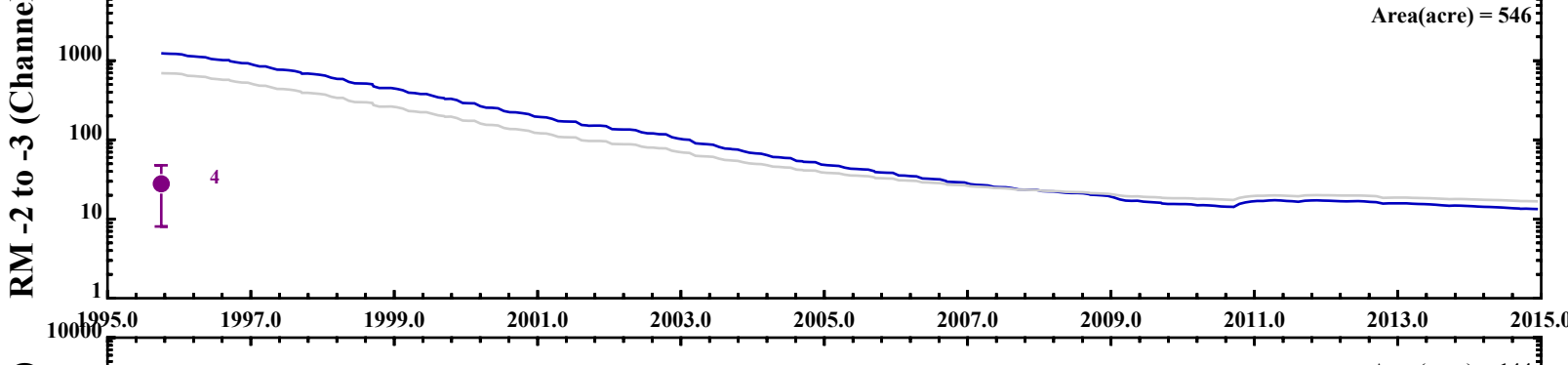
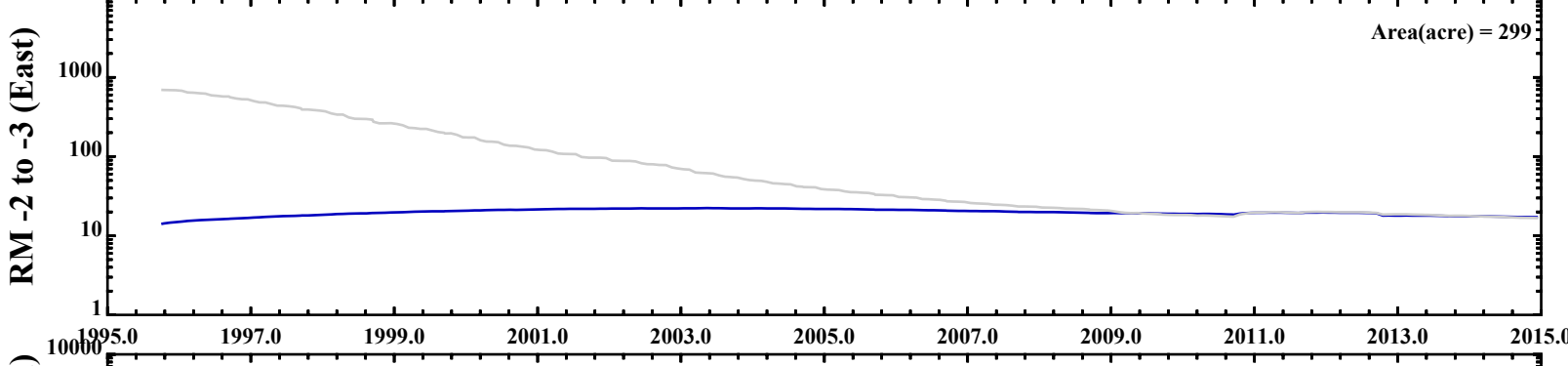
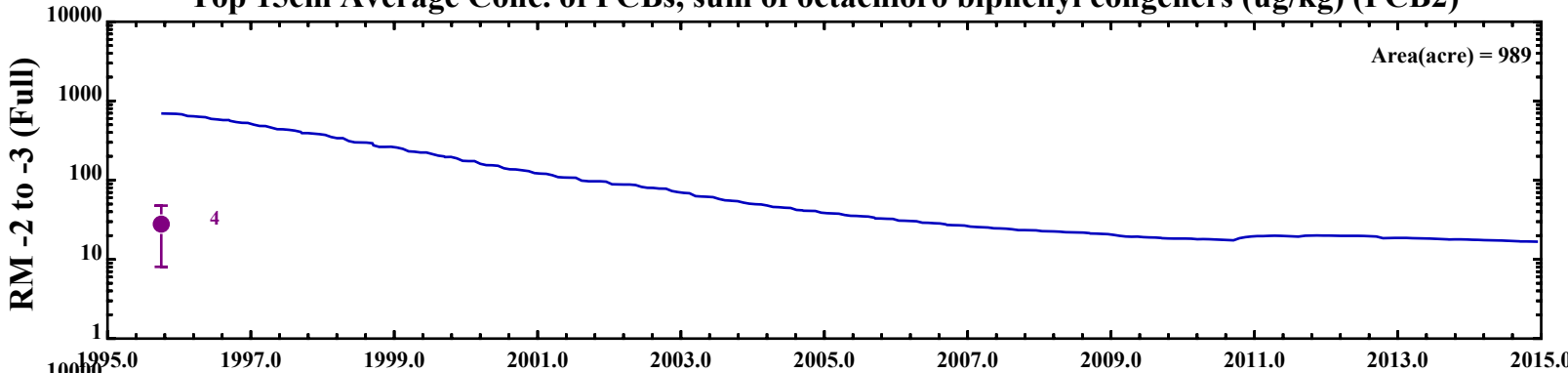


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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

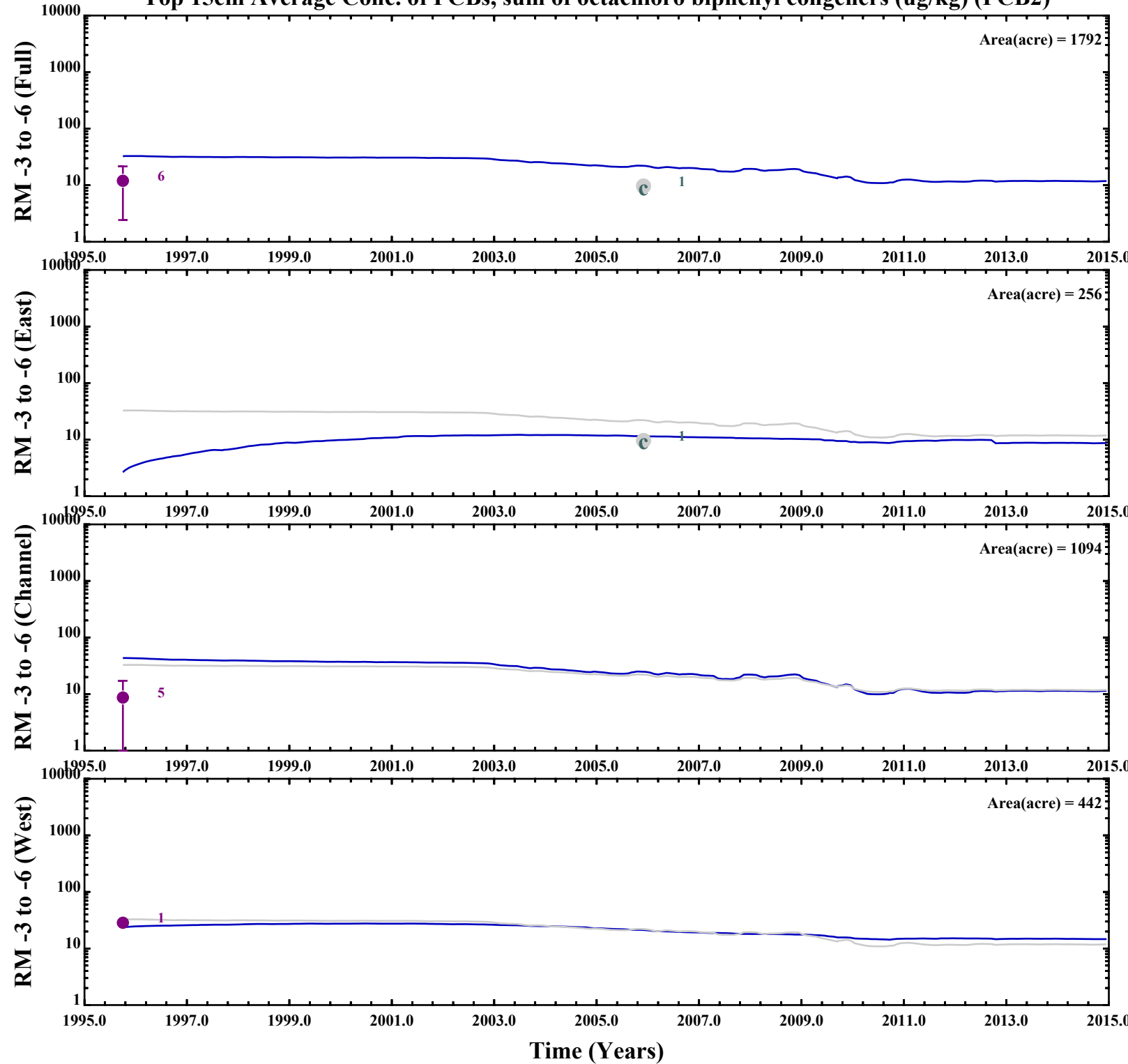


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

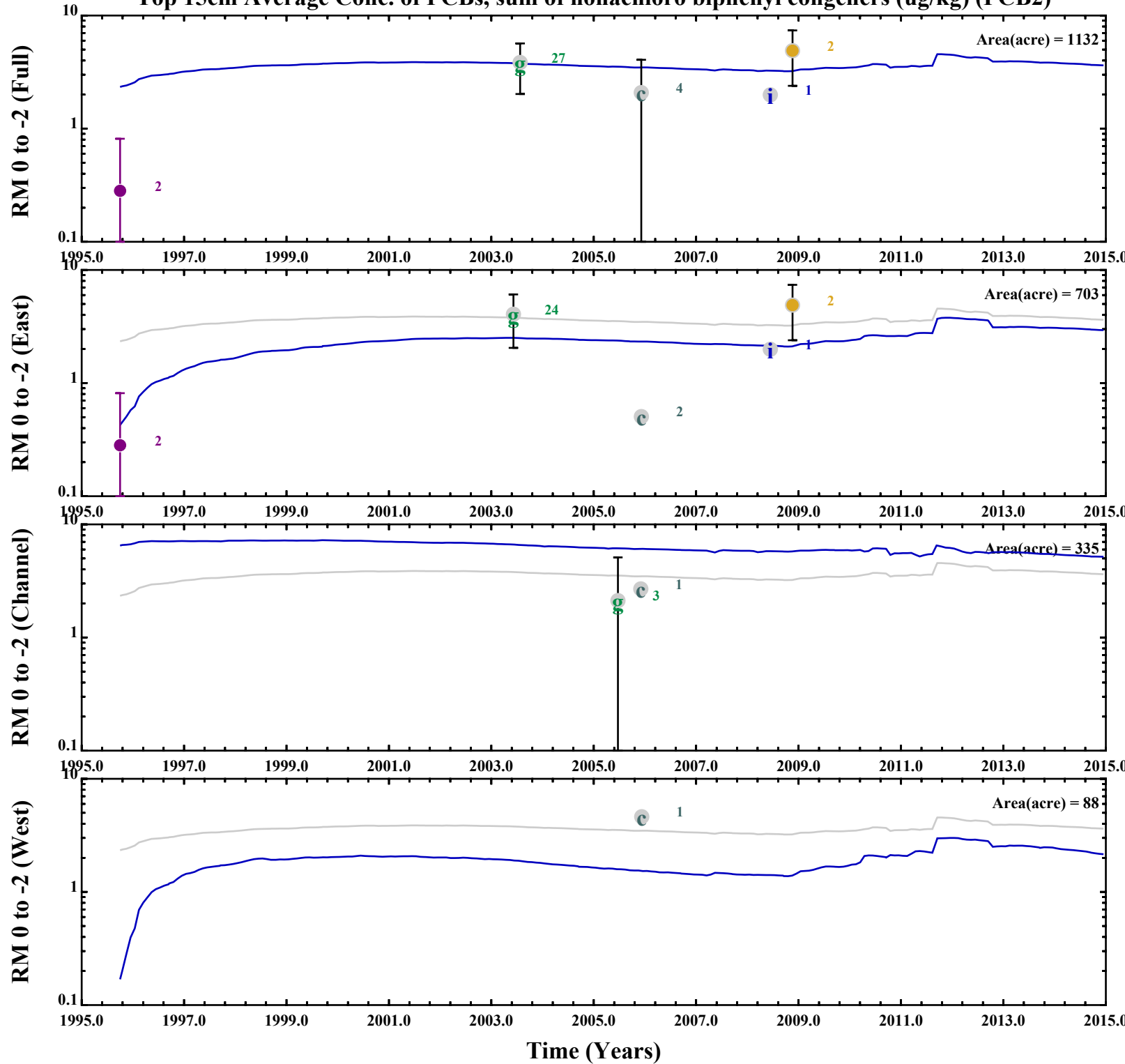
# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



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- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

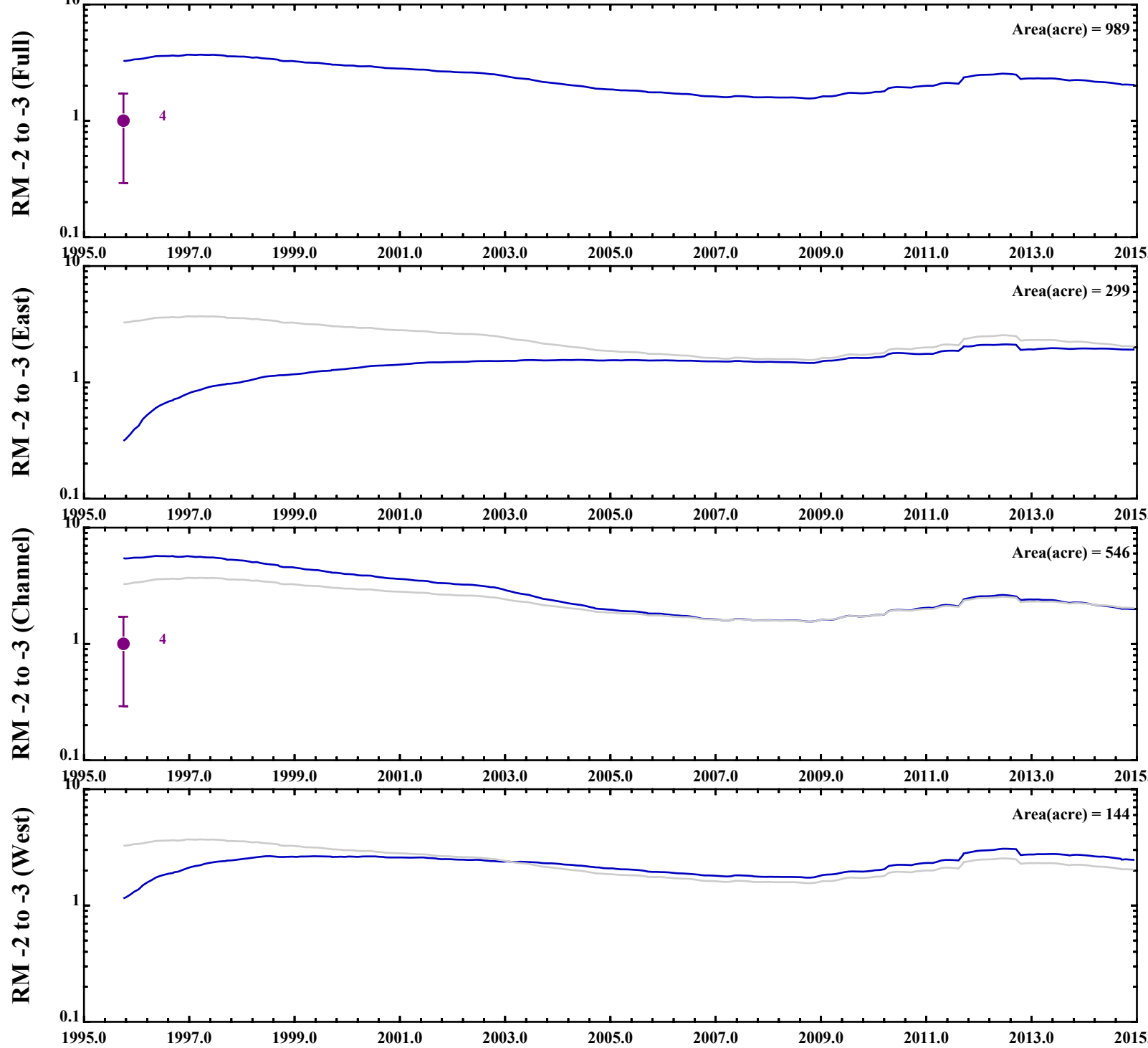
# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)

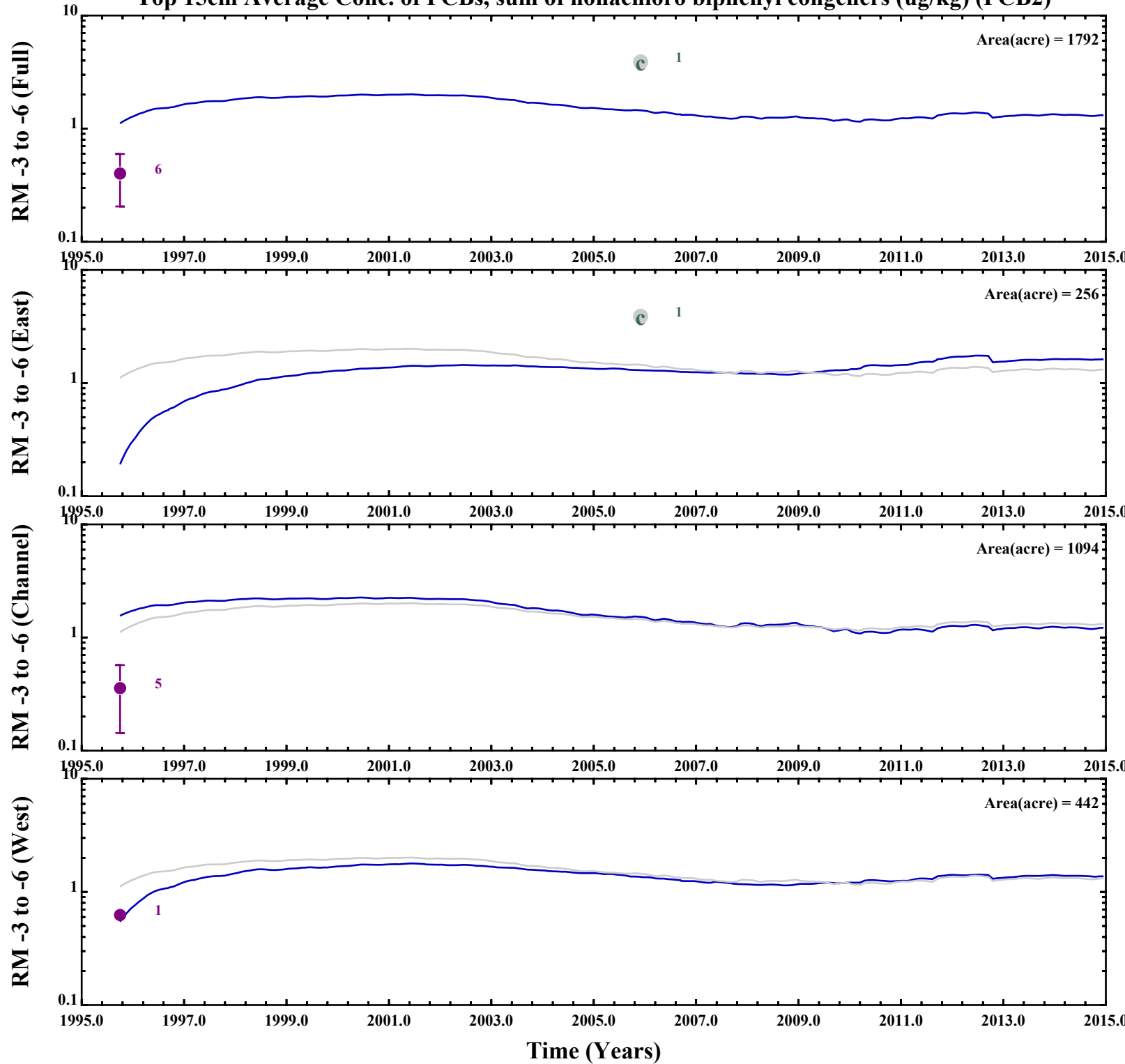


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

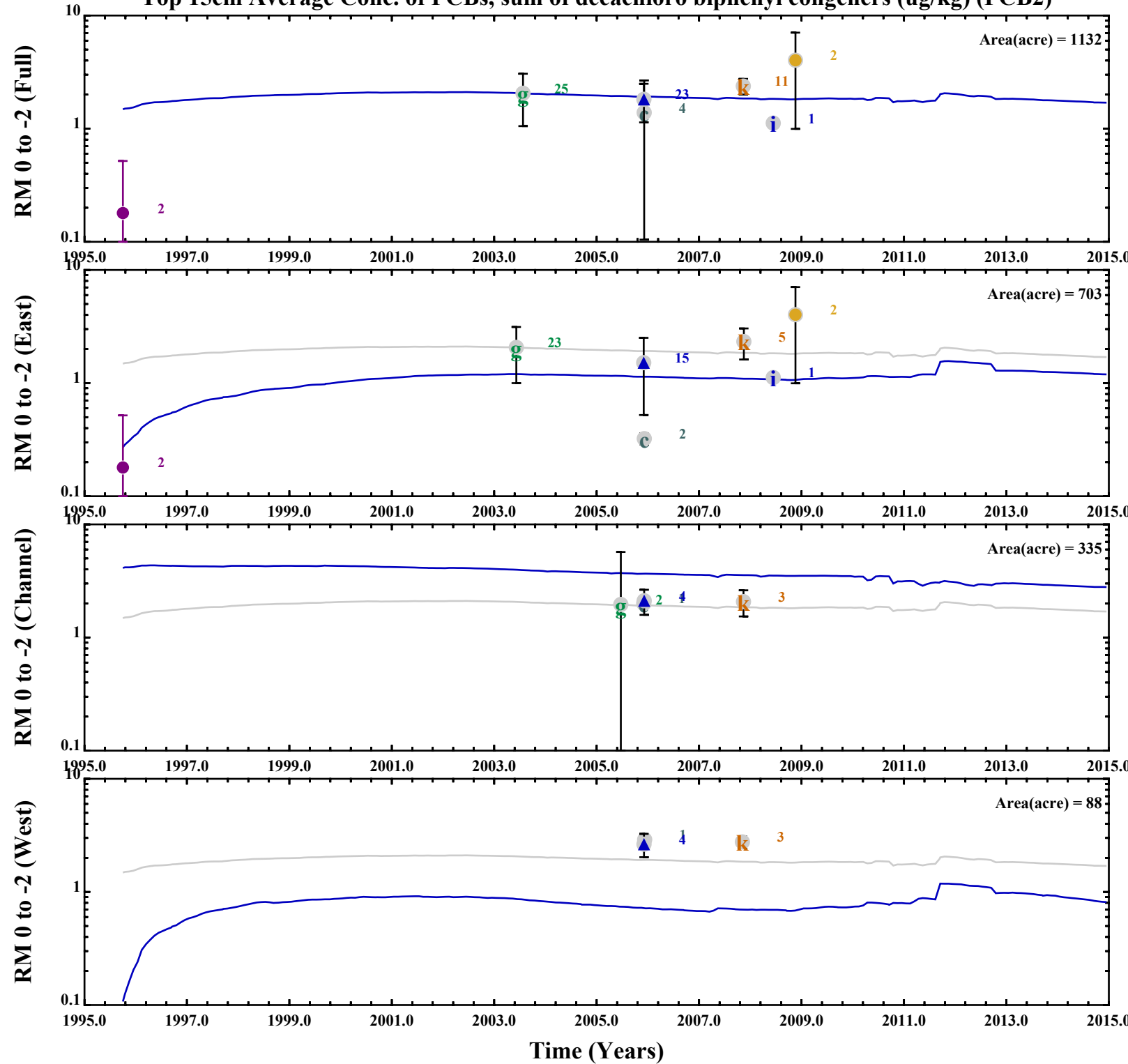
# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



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- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- q 2010 USEPA-CDM Benthic Oversight
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

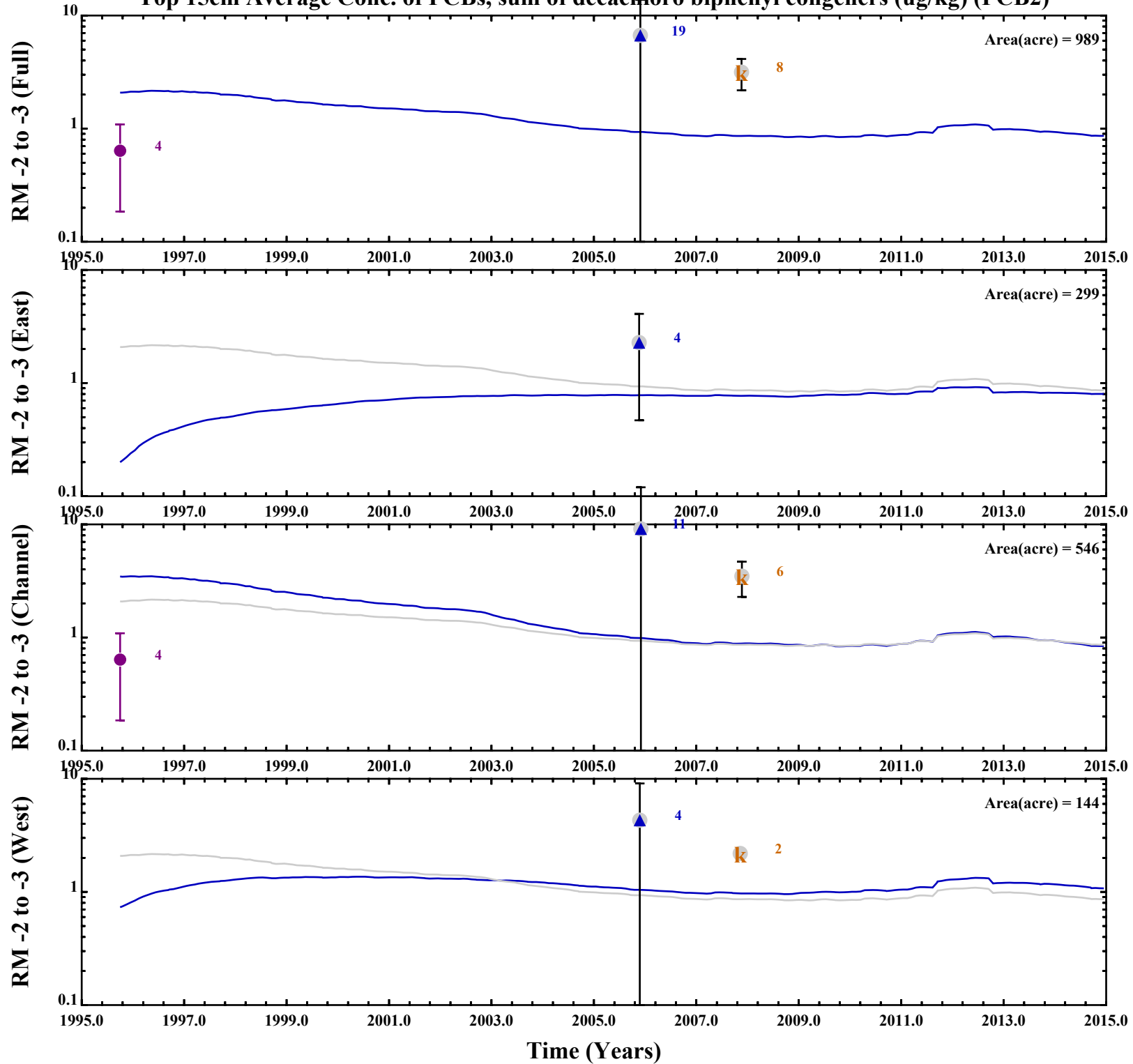
# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
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- 2011 CPG River Mile 10.9 Data
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

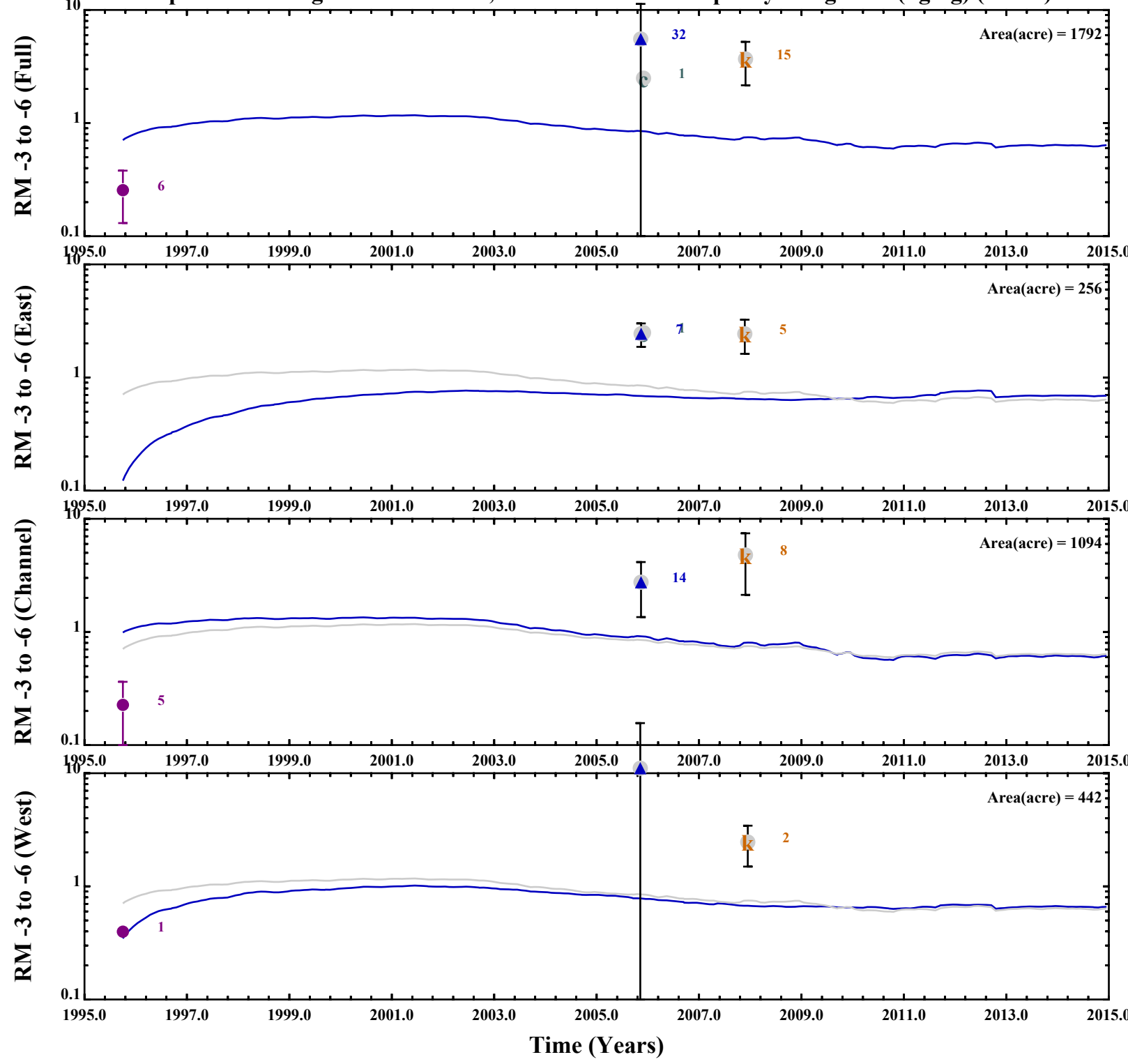


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- 2012 CPG Low Res Coring Supplemental
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



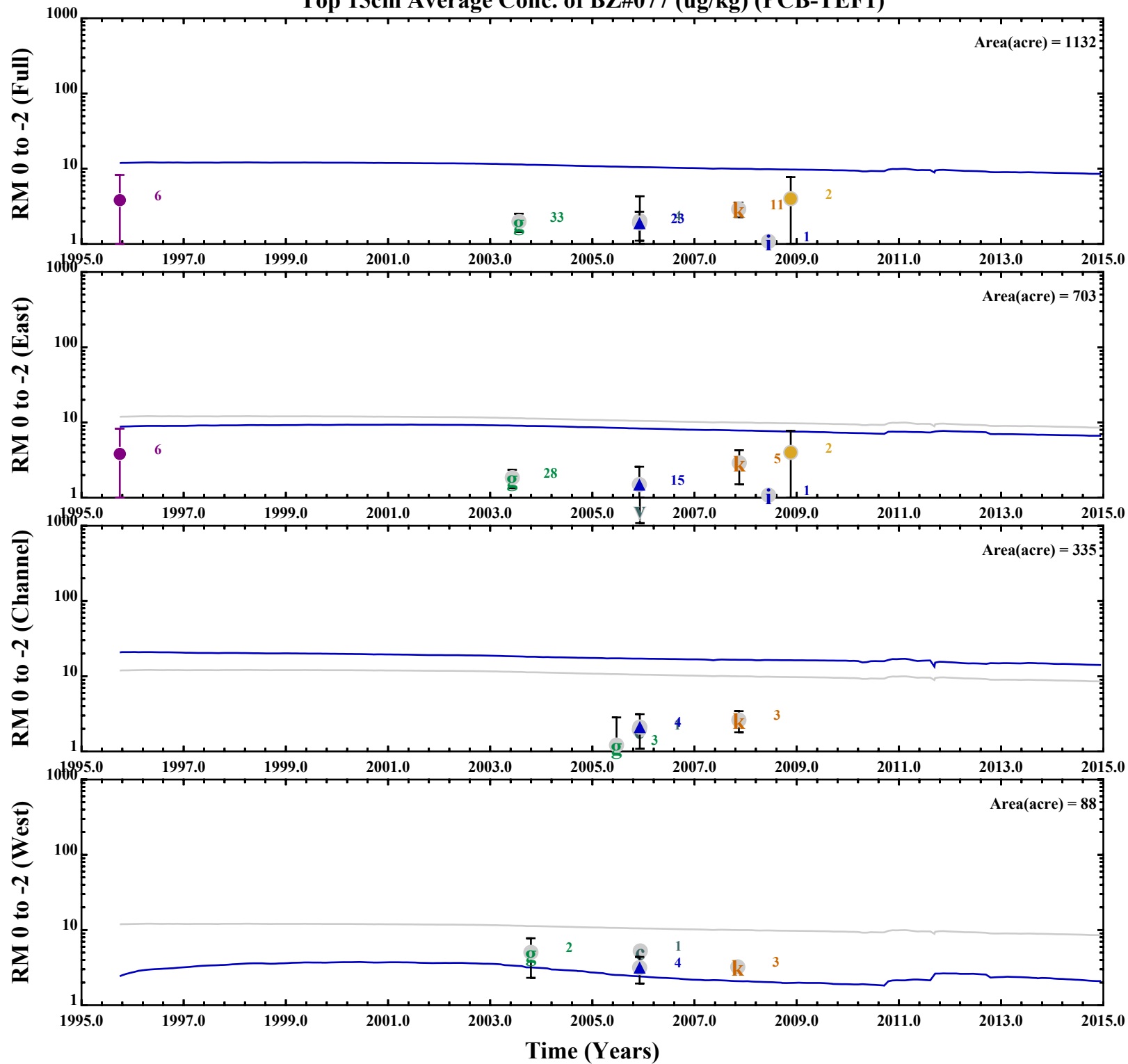
# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



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- ▲ 1990 Surficial Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

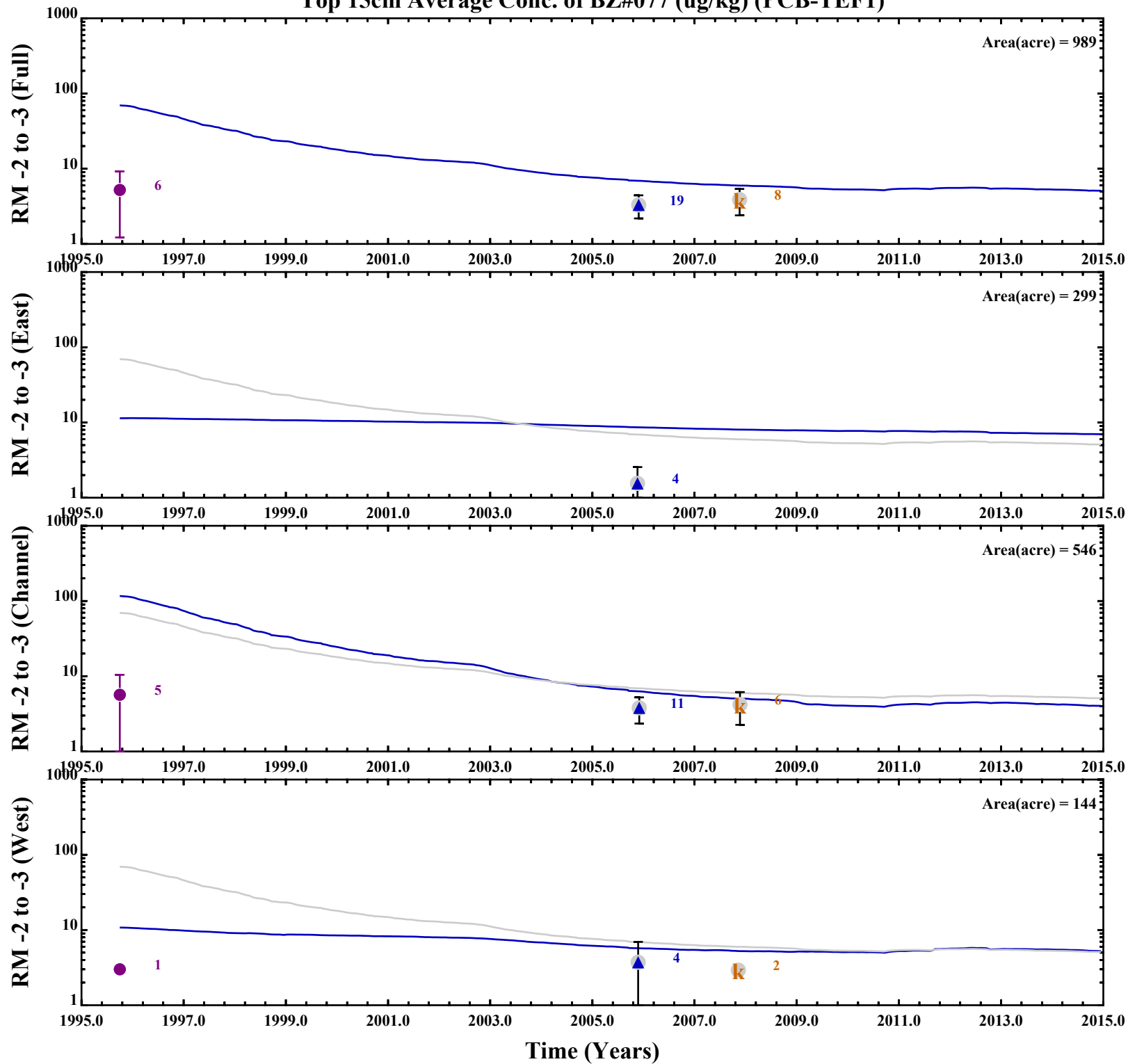
# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1998 NS&T Hudson-Raritan Phase II, 1993
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- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 2012 CPG Low Res Coring Supplemental
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

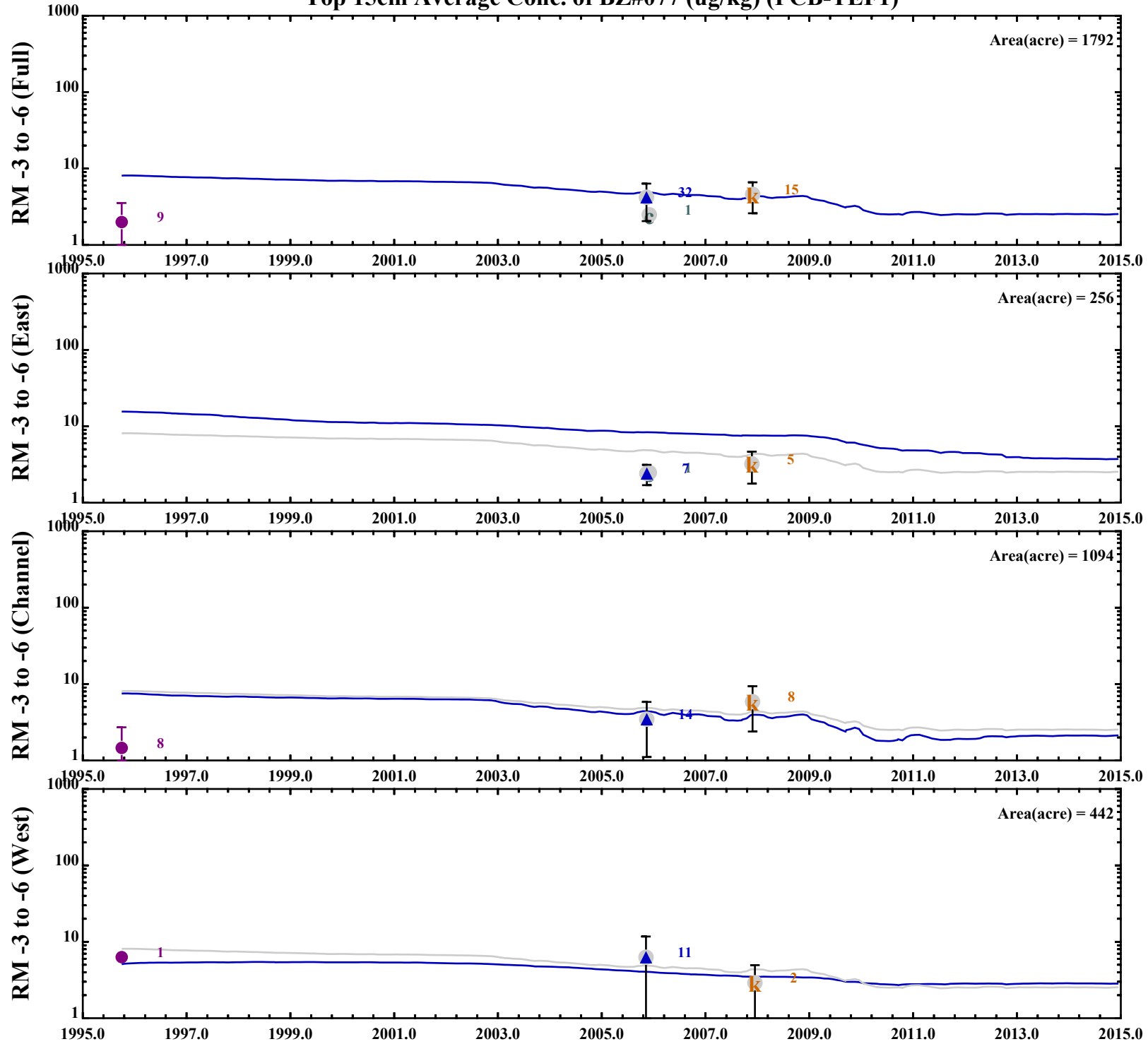
# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)

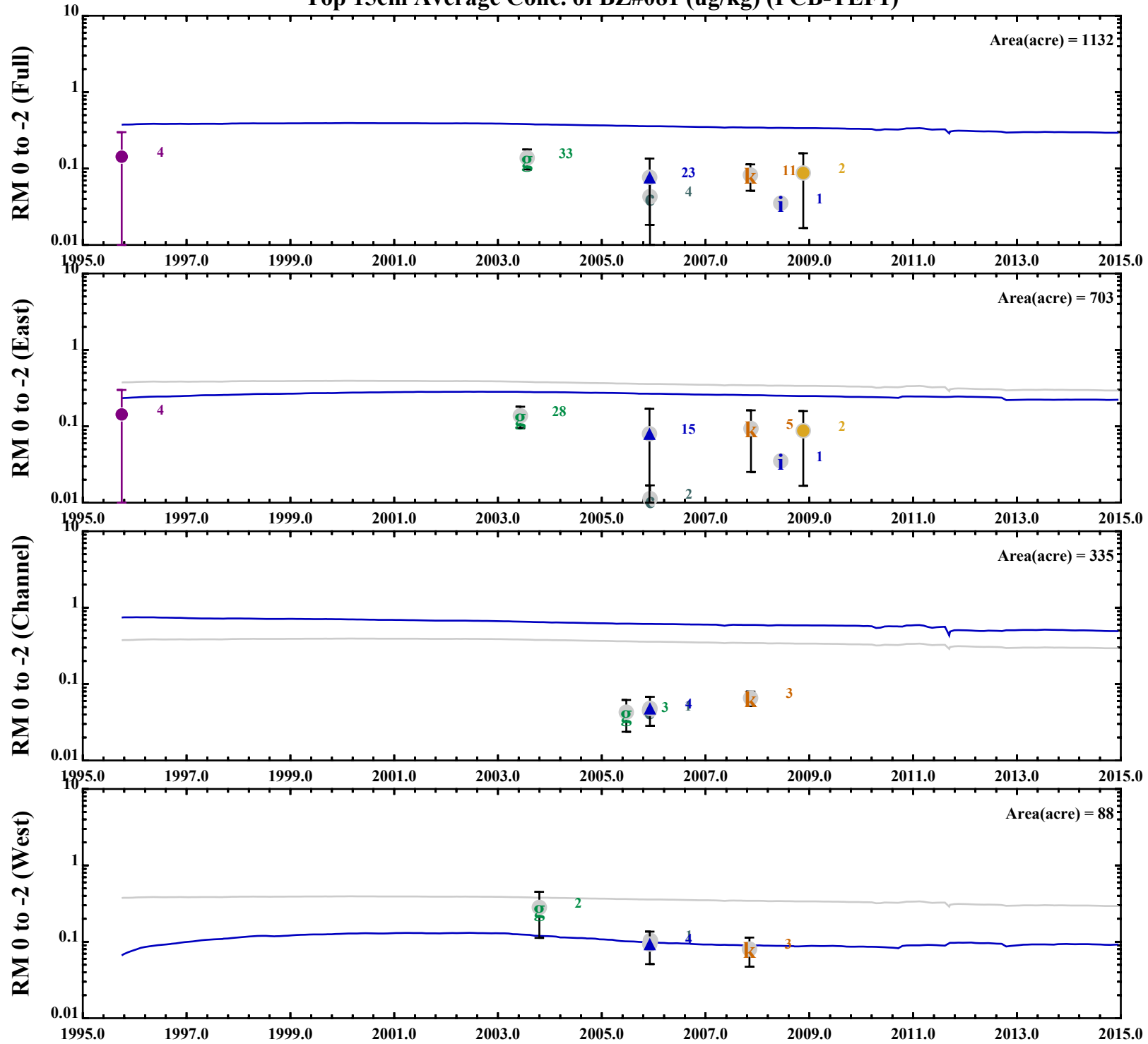


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- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

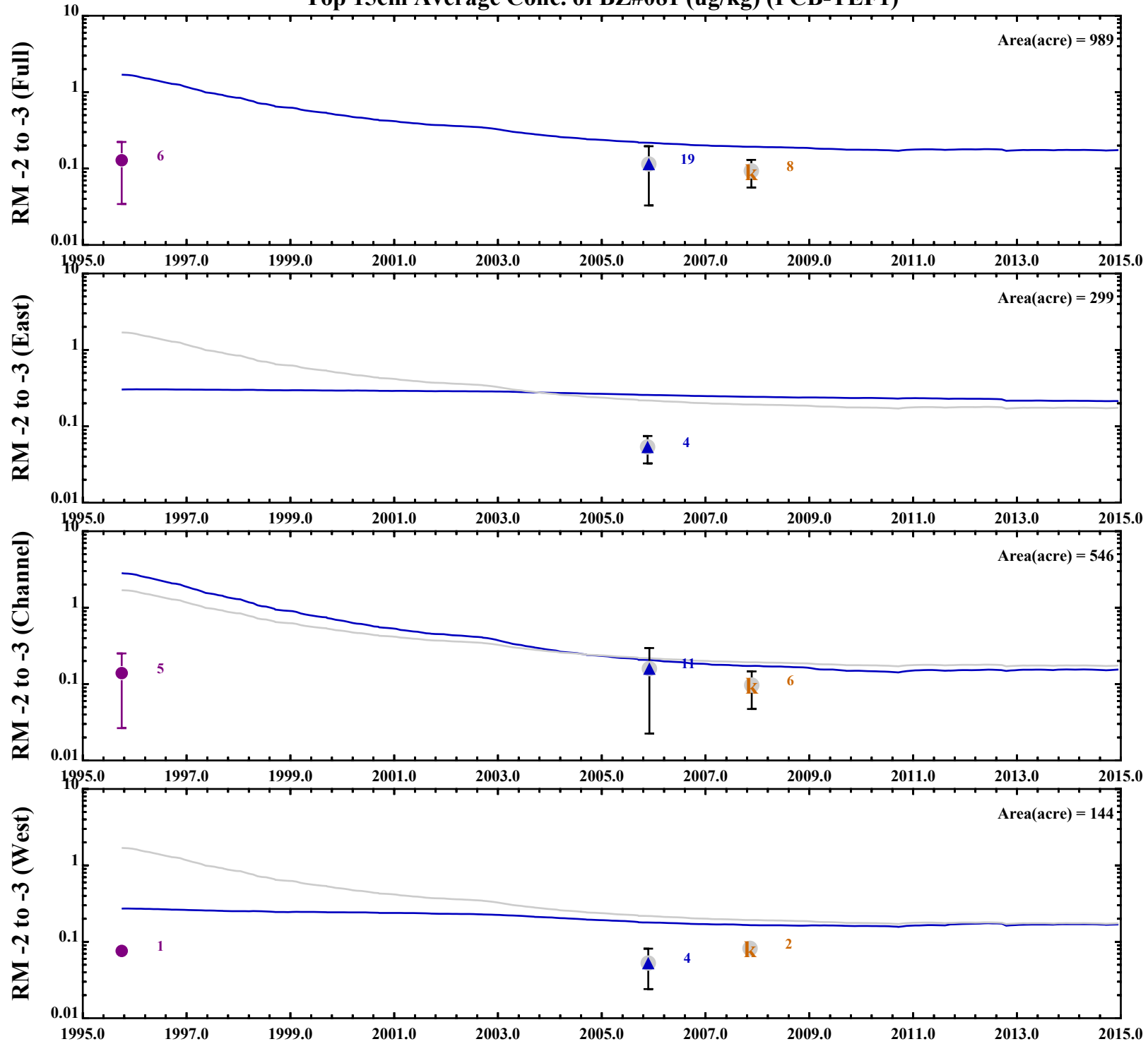
# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
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- 1994 Surficial Sediment Investigation
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- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)

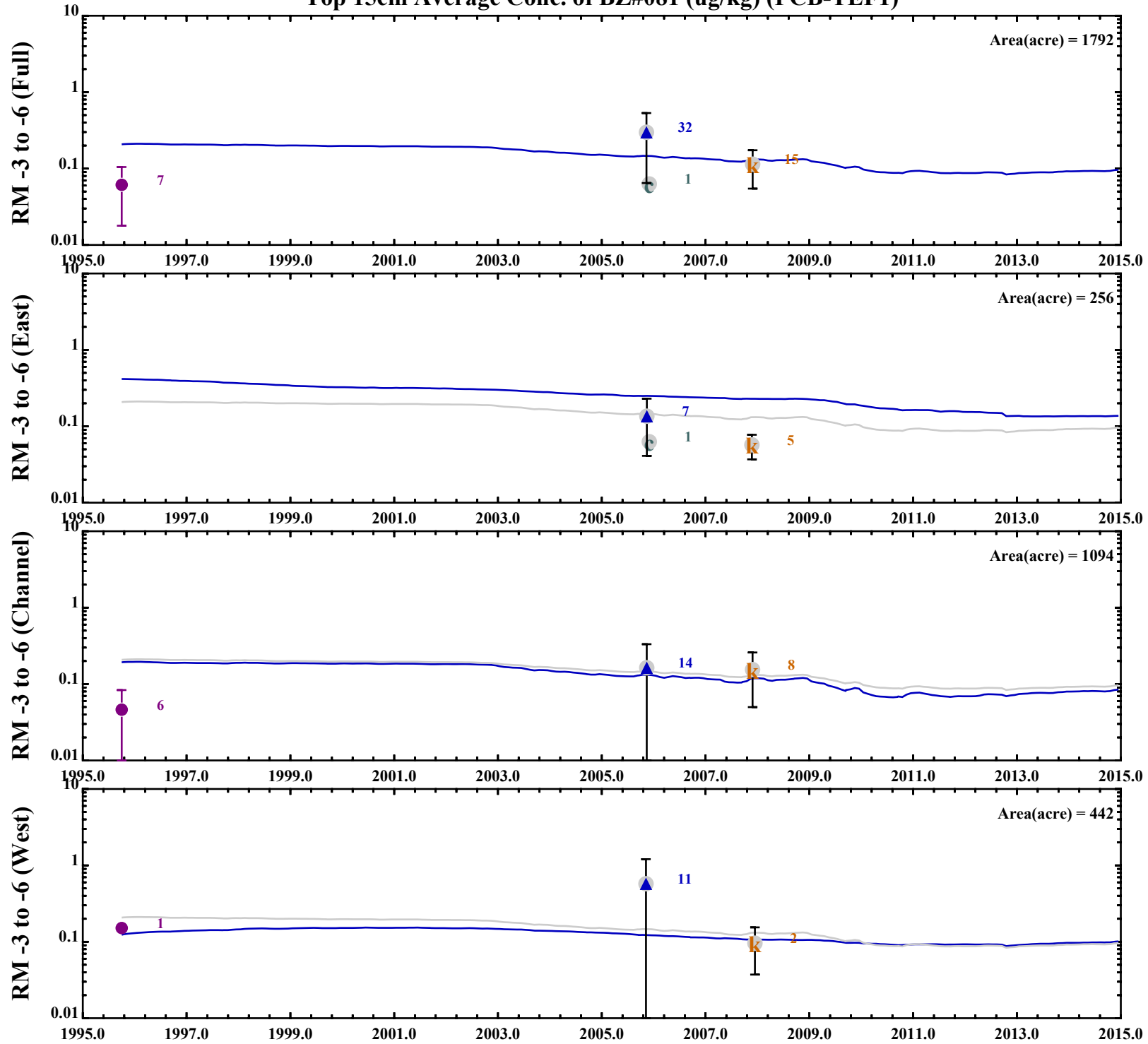


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
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- 2000 Spring ESP Sampling Program
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- 2005 MPI - Newark Bay Phase I Oversight
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- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

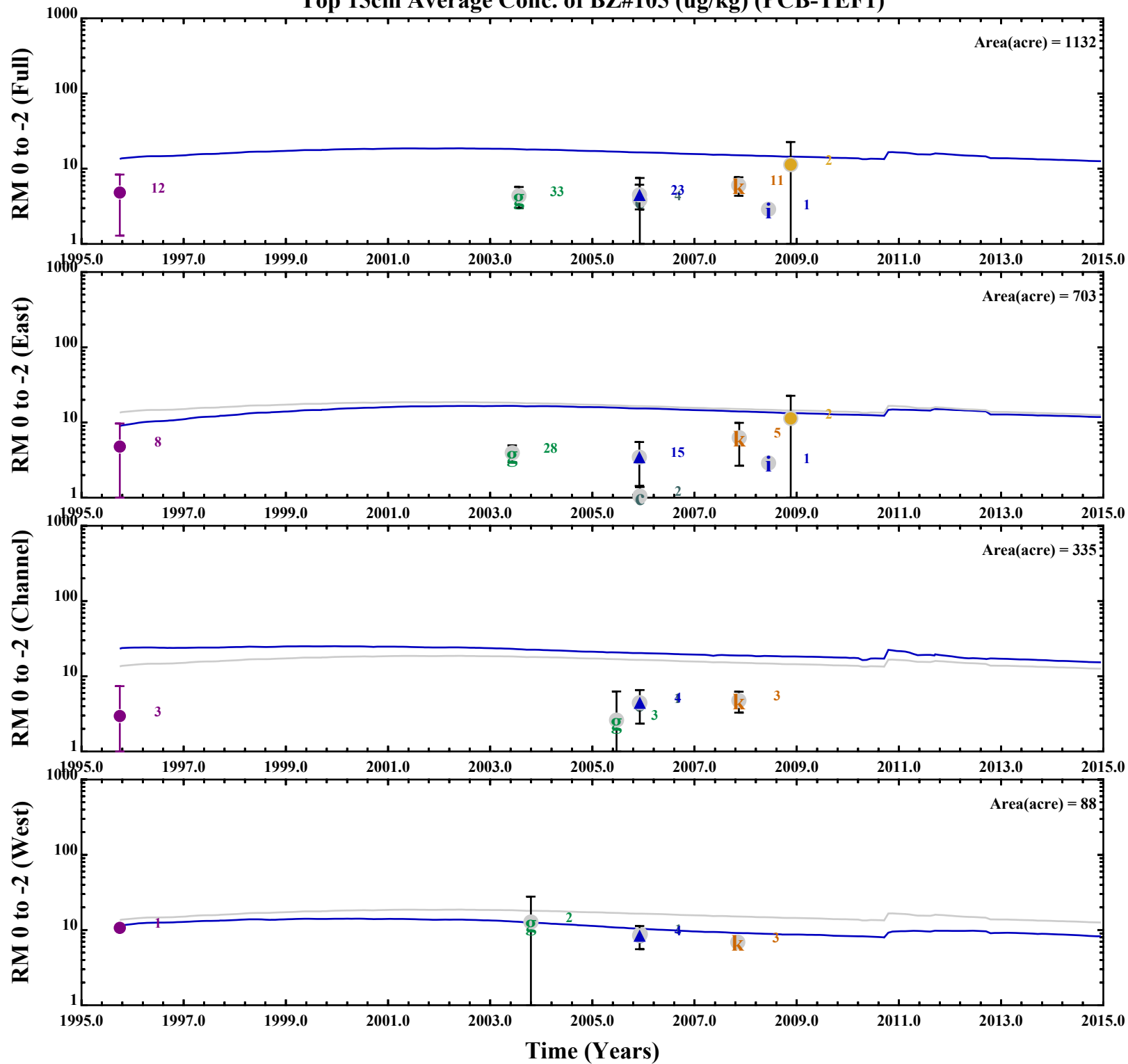
# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2006 HRSA RI Sampling Program
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- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)

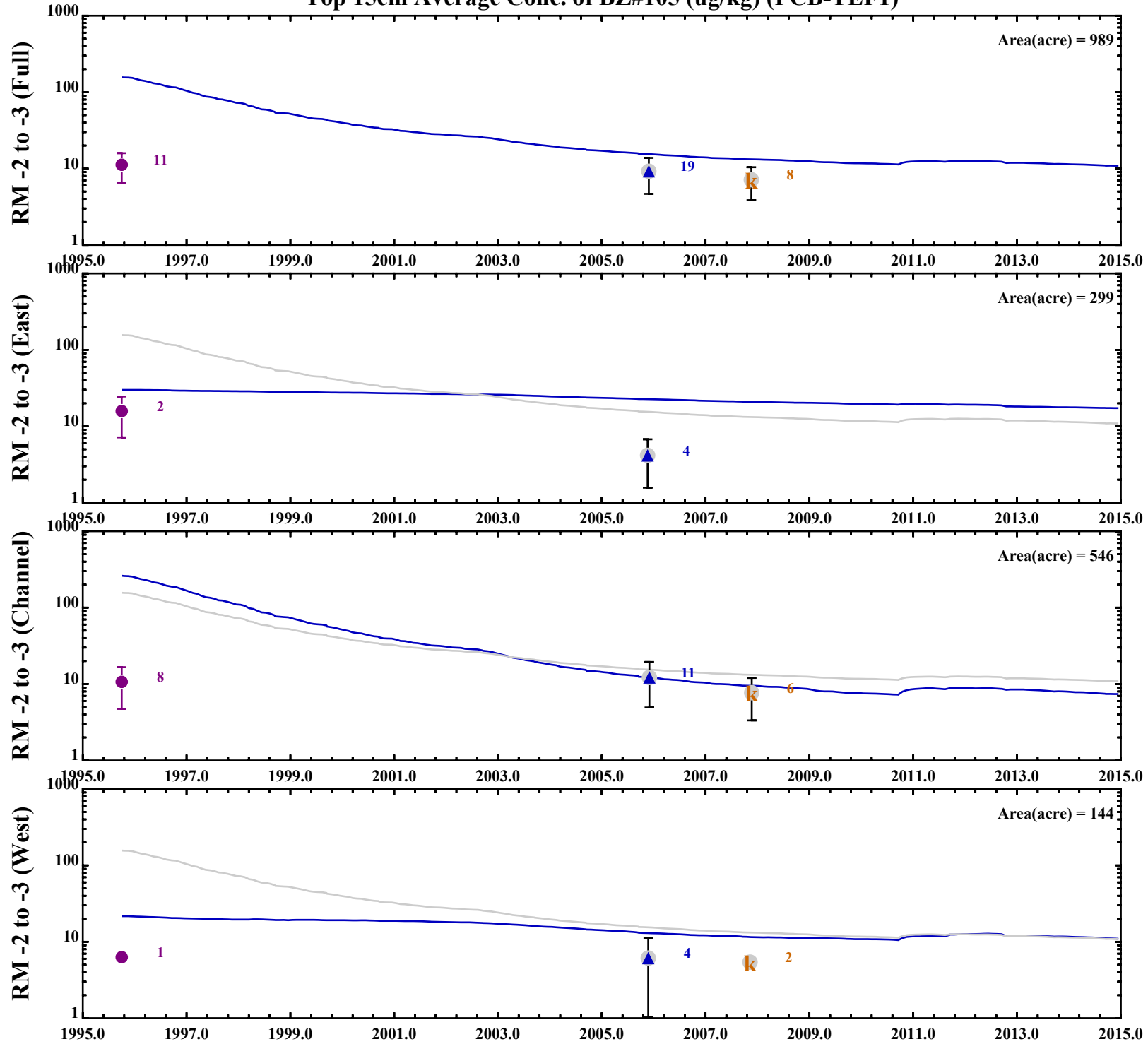


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)

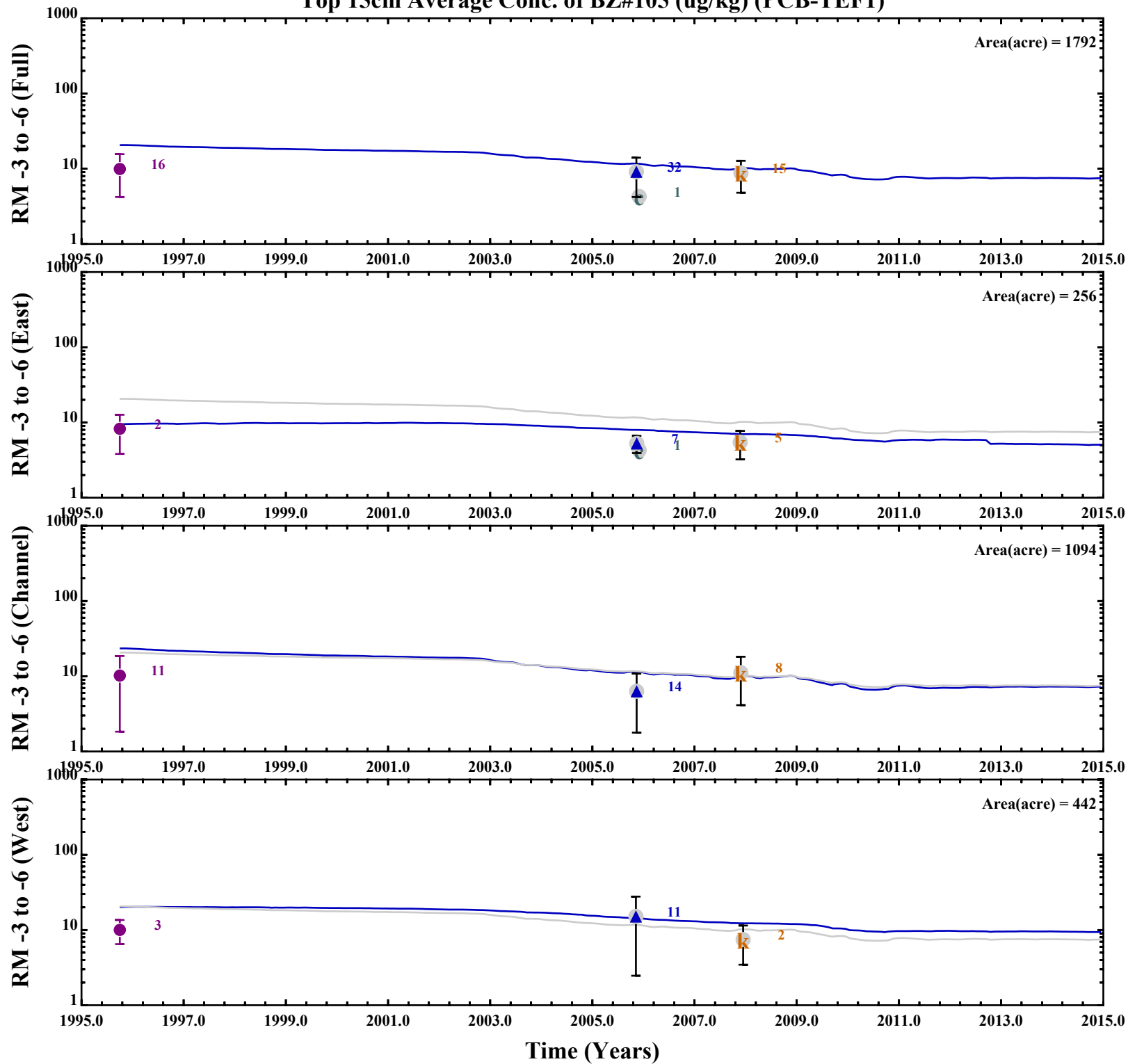


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
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- 2006 HRSA RI Sampling Program
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- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

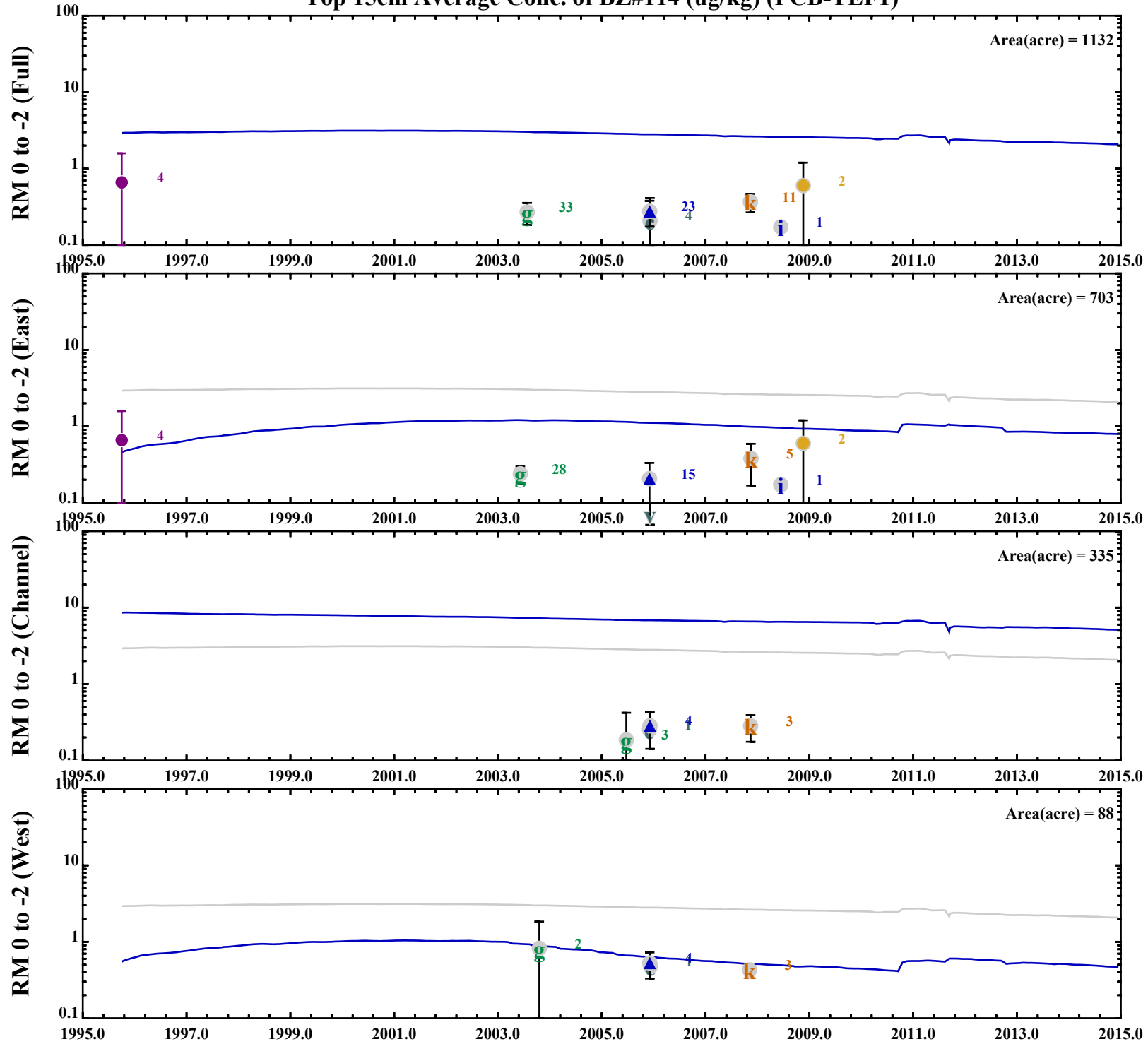
# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

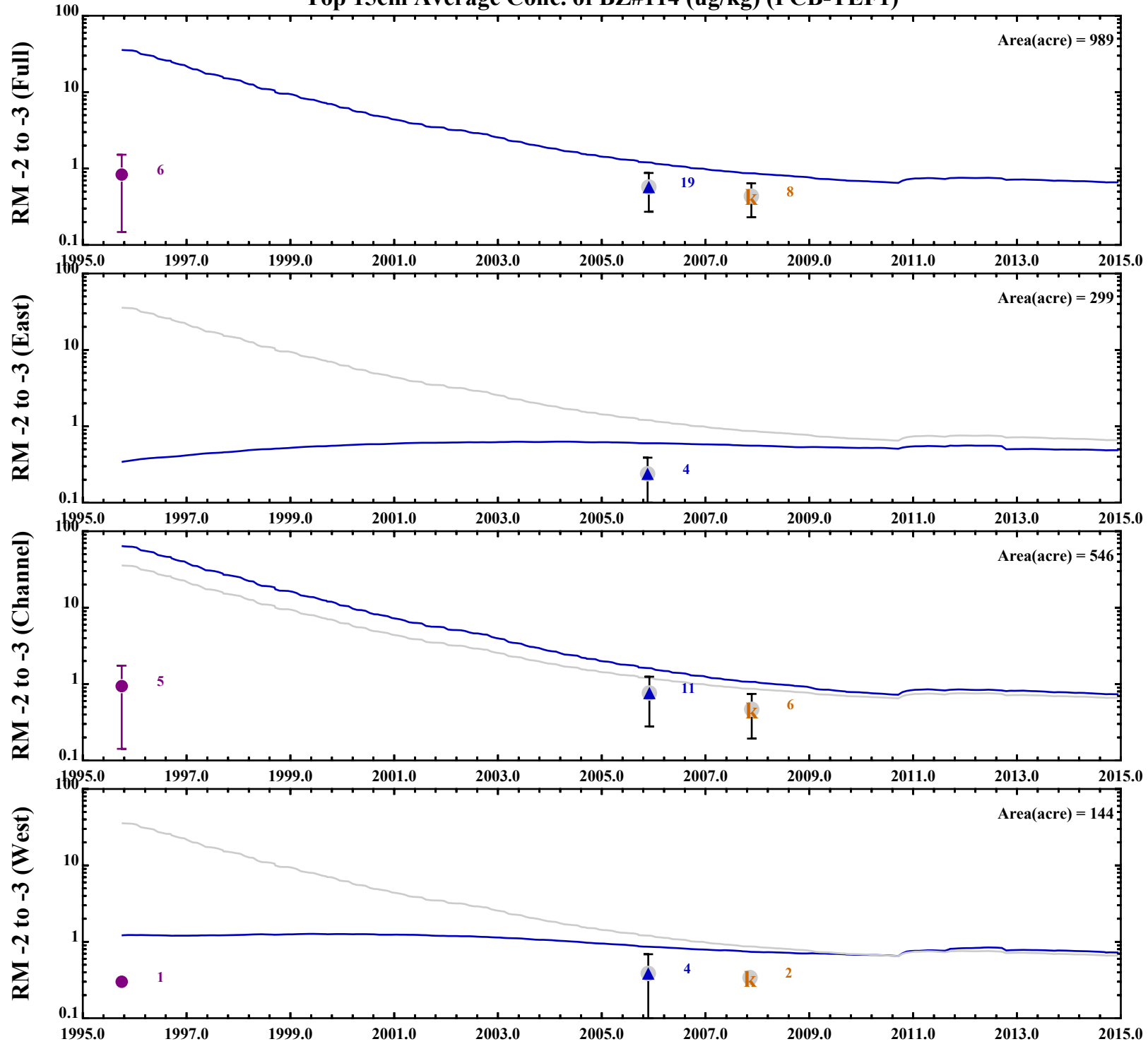
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)

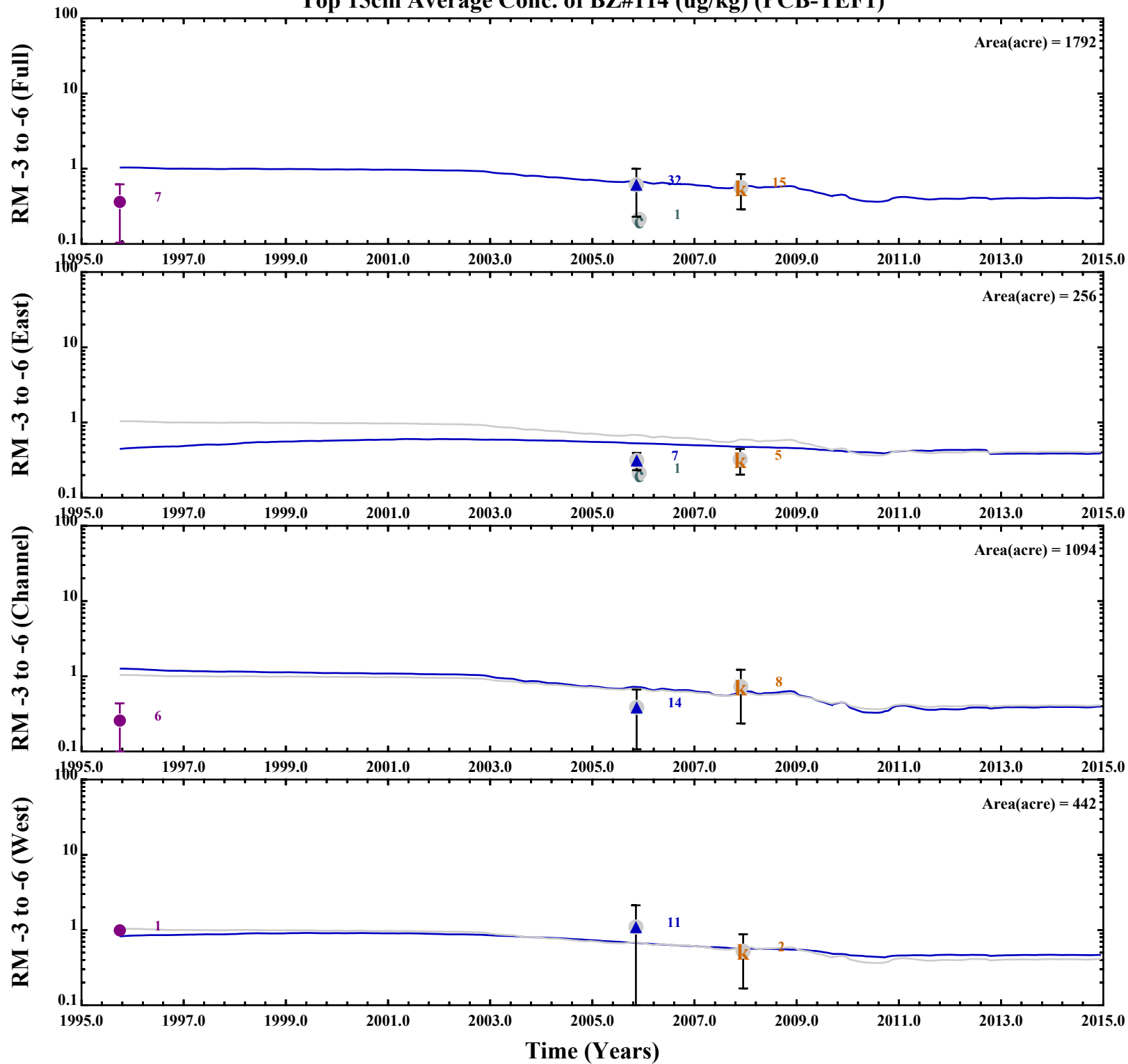


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
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- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

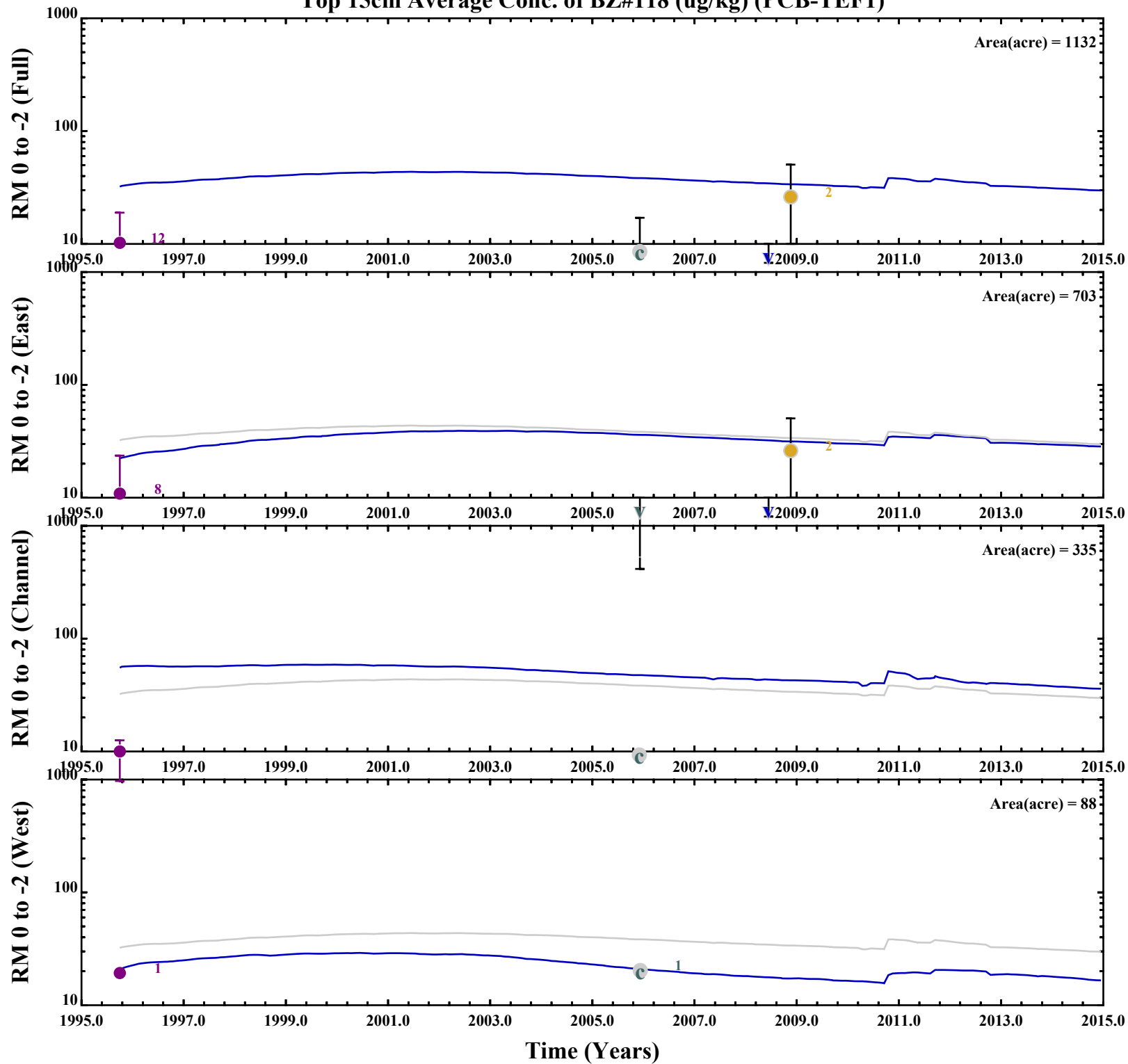
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- 1993 Core Sediment Investigation - 01 (March)
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- 1997 Newark Bay Reach B,C,D Sampling Program
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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
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- 2007 Newark Bay Phase II TSI Sediment Samples
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

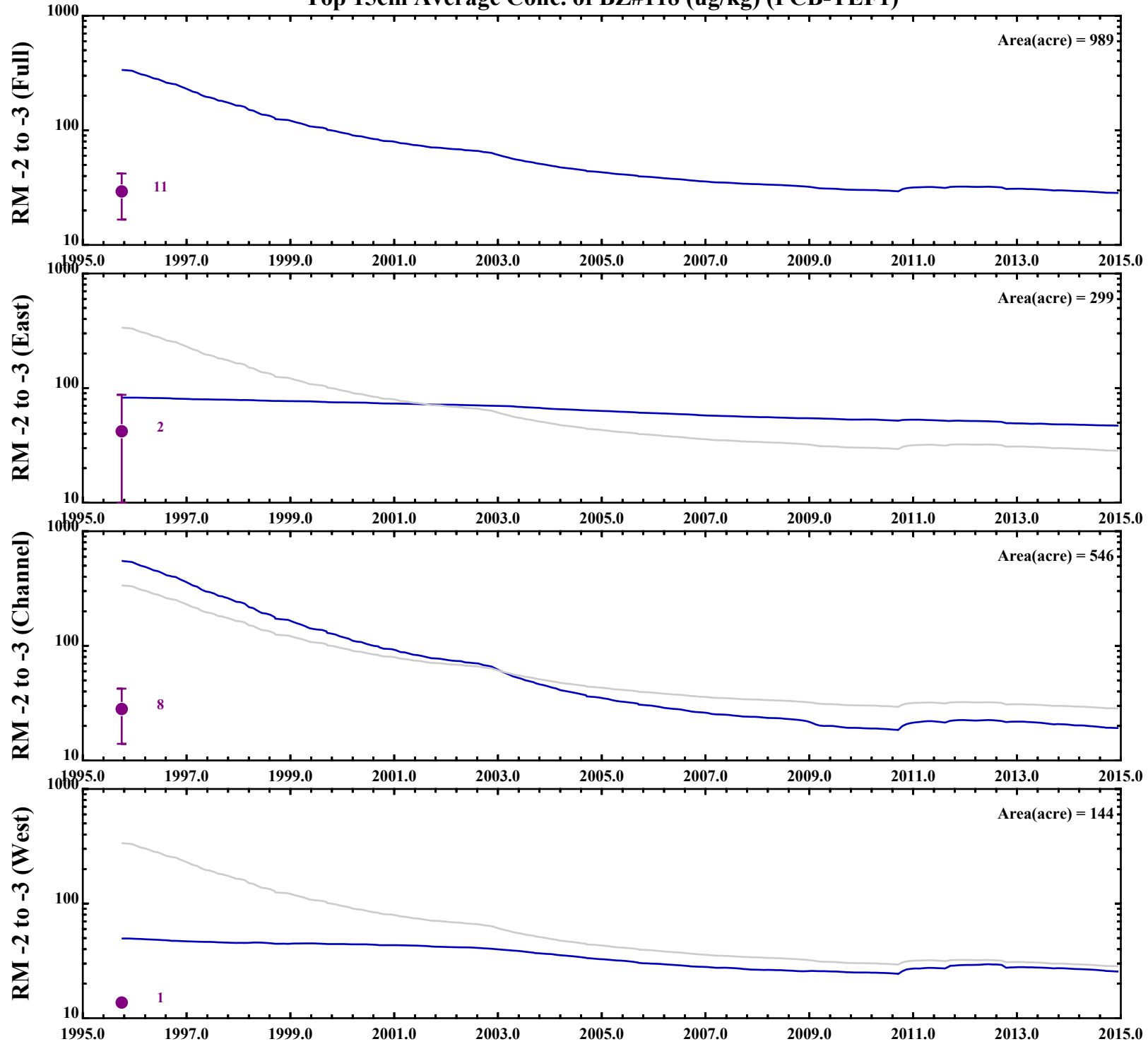
# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 1999 Prelim Toxicity Identification Eval
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- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- 2006 HRSA RI Sampling Program
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- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

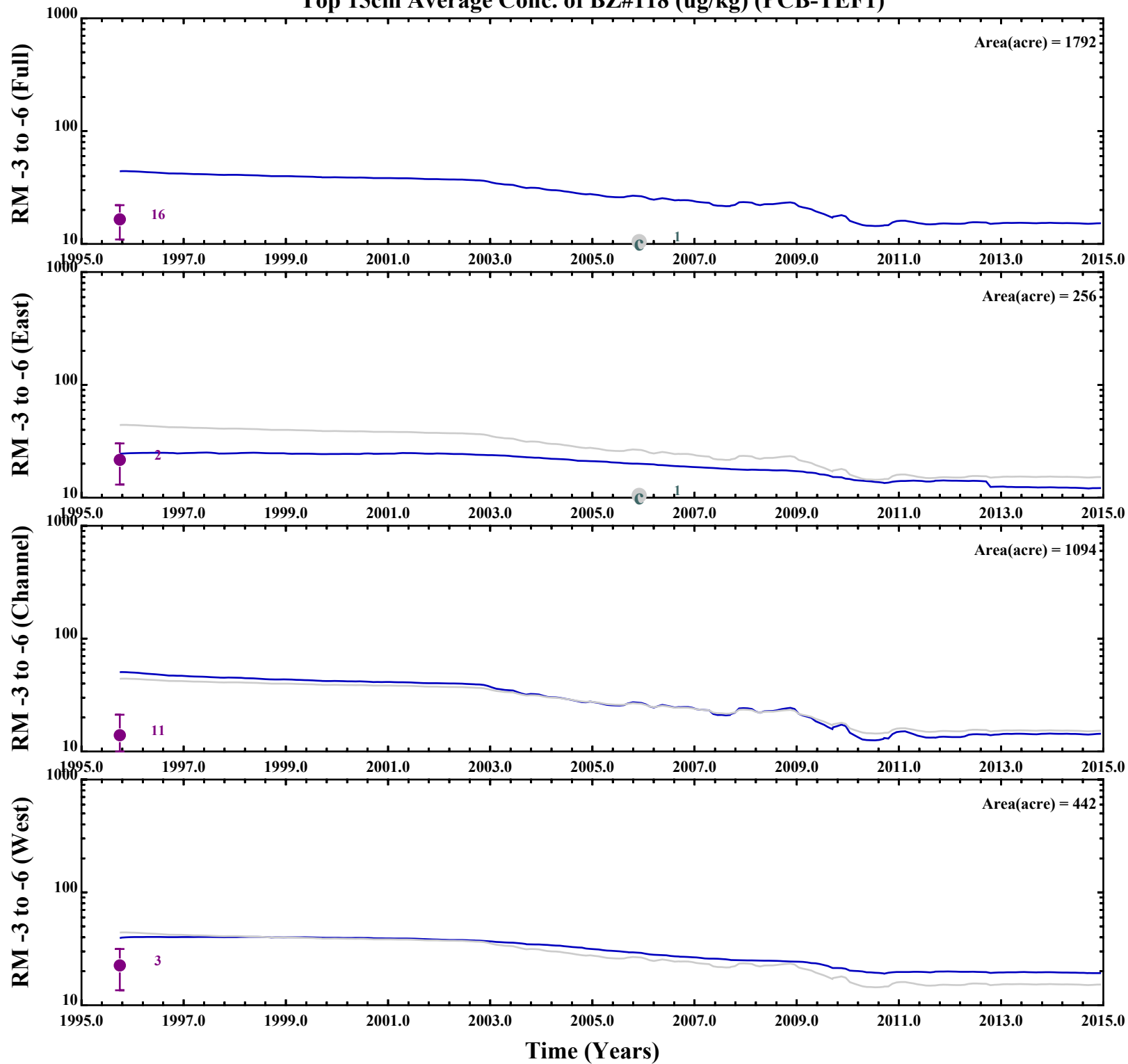


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2000 Toxicity Identification Evaluation
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

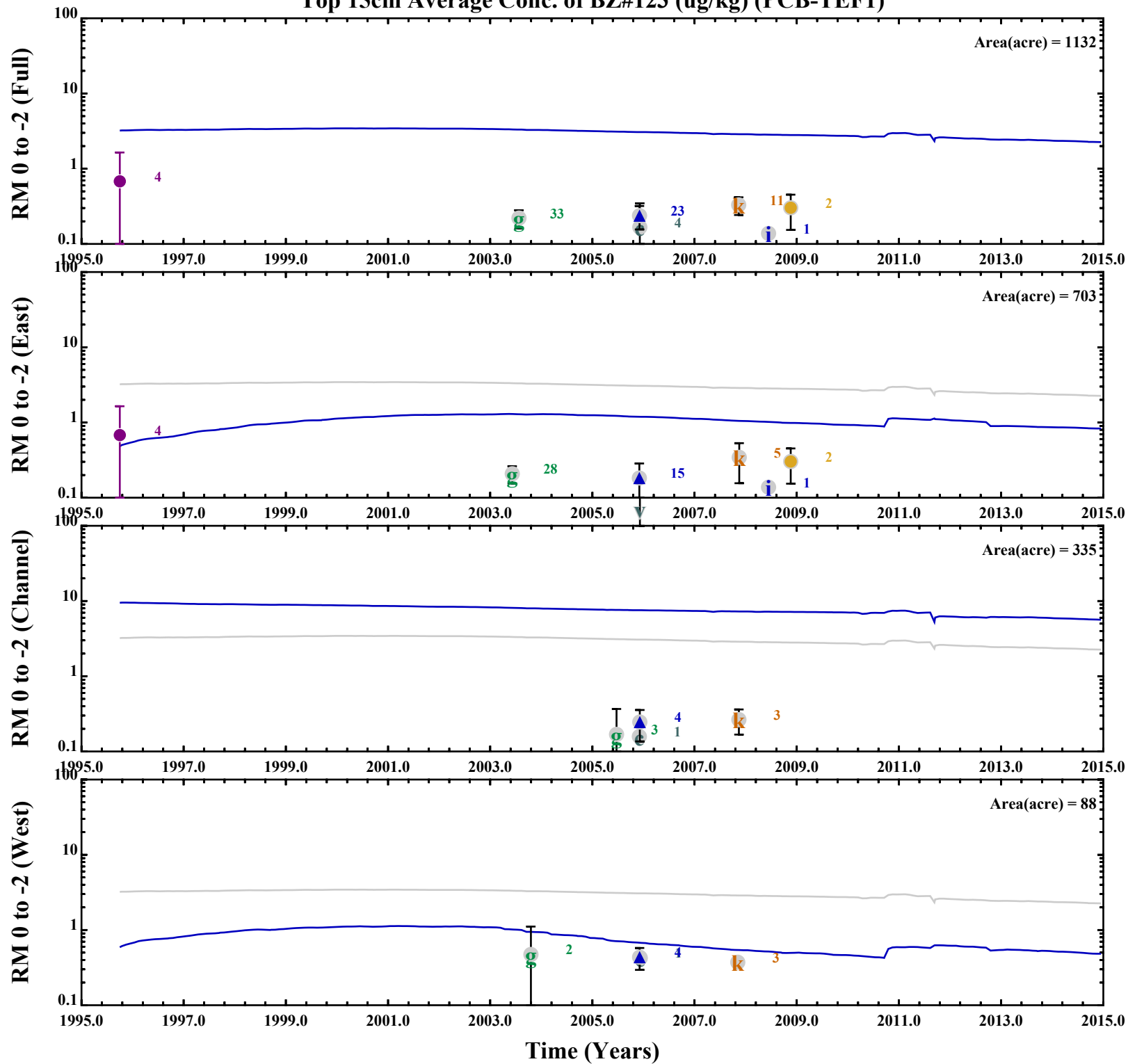


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
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- 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
- 1994 Surficial Sediment Investigation
- 1994 REMAP
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- 1995 Sediment Grab Sampling Program
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- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



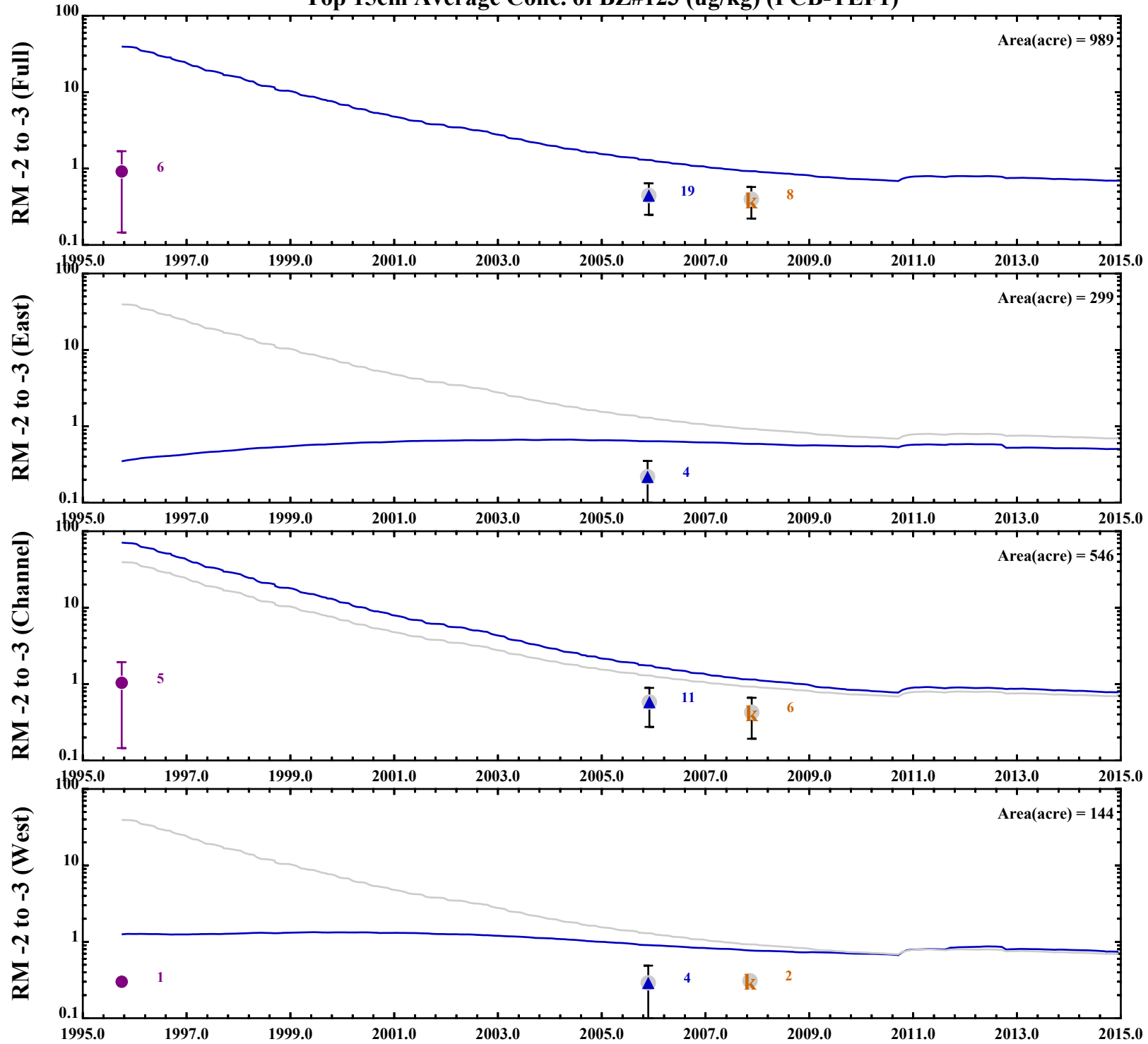
# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 1999 Prelim Toxicity Identification Eval
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- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
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- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)

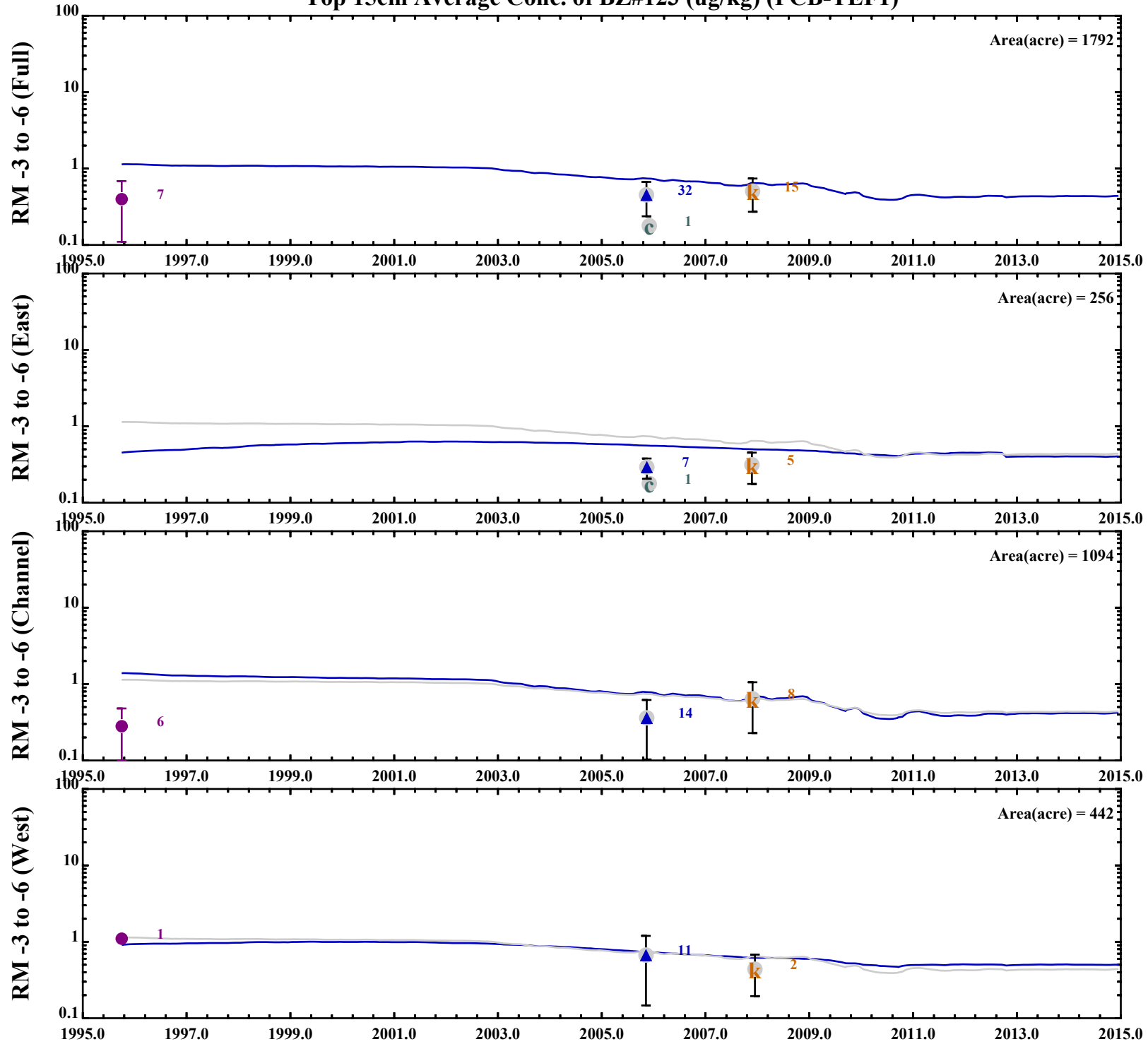


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)

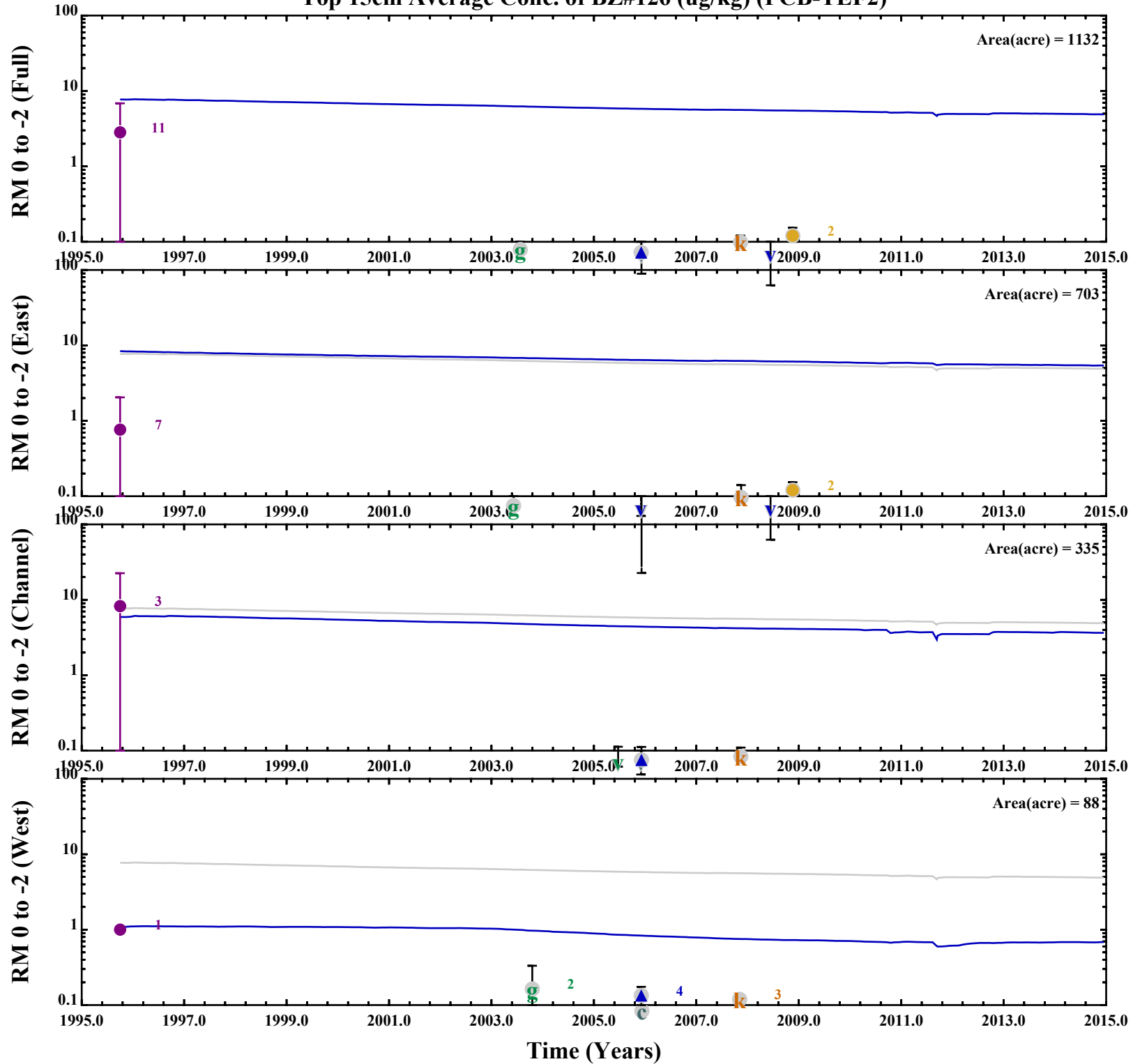


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 2000 Toxicity Identification Evaluation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

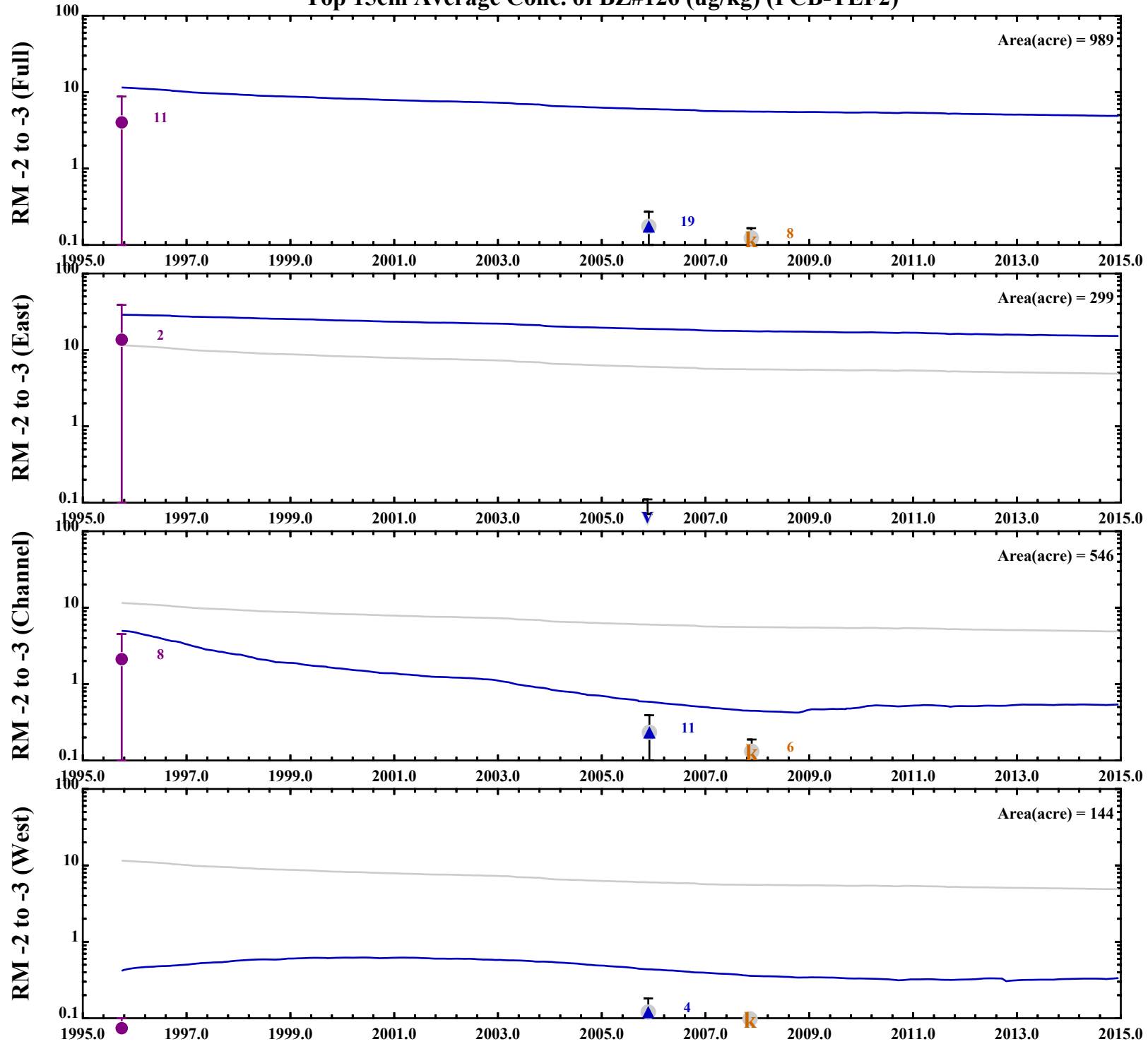
# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- ▲ 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- ▲ 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
- ▲ 1994 Surficial Sediment Investigation
- 1994 REMAP
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- 1998 REMAP
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

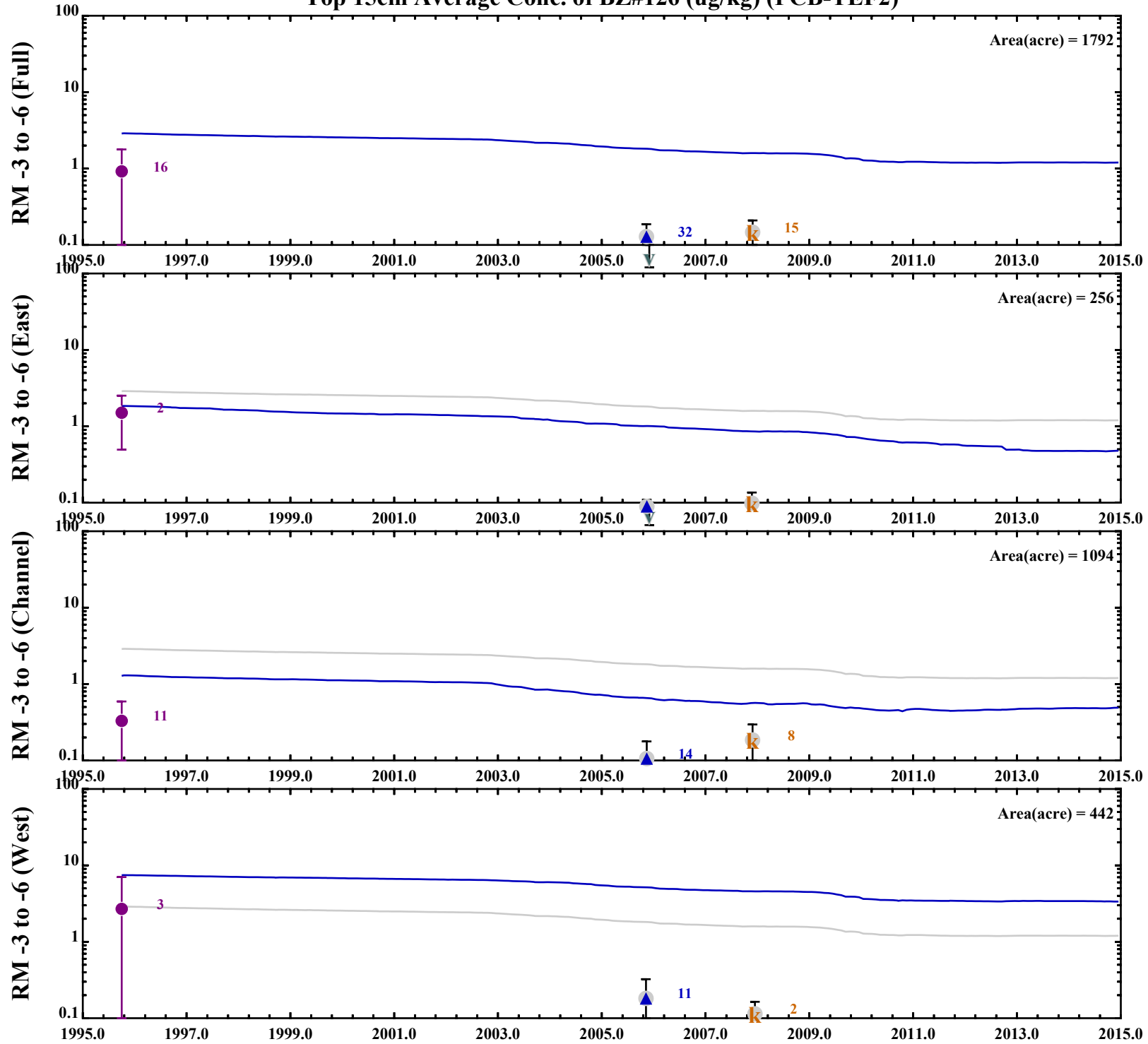
— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

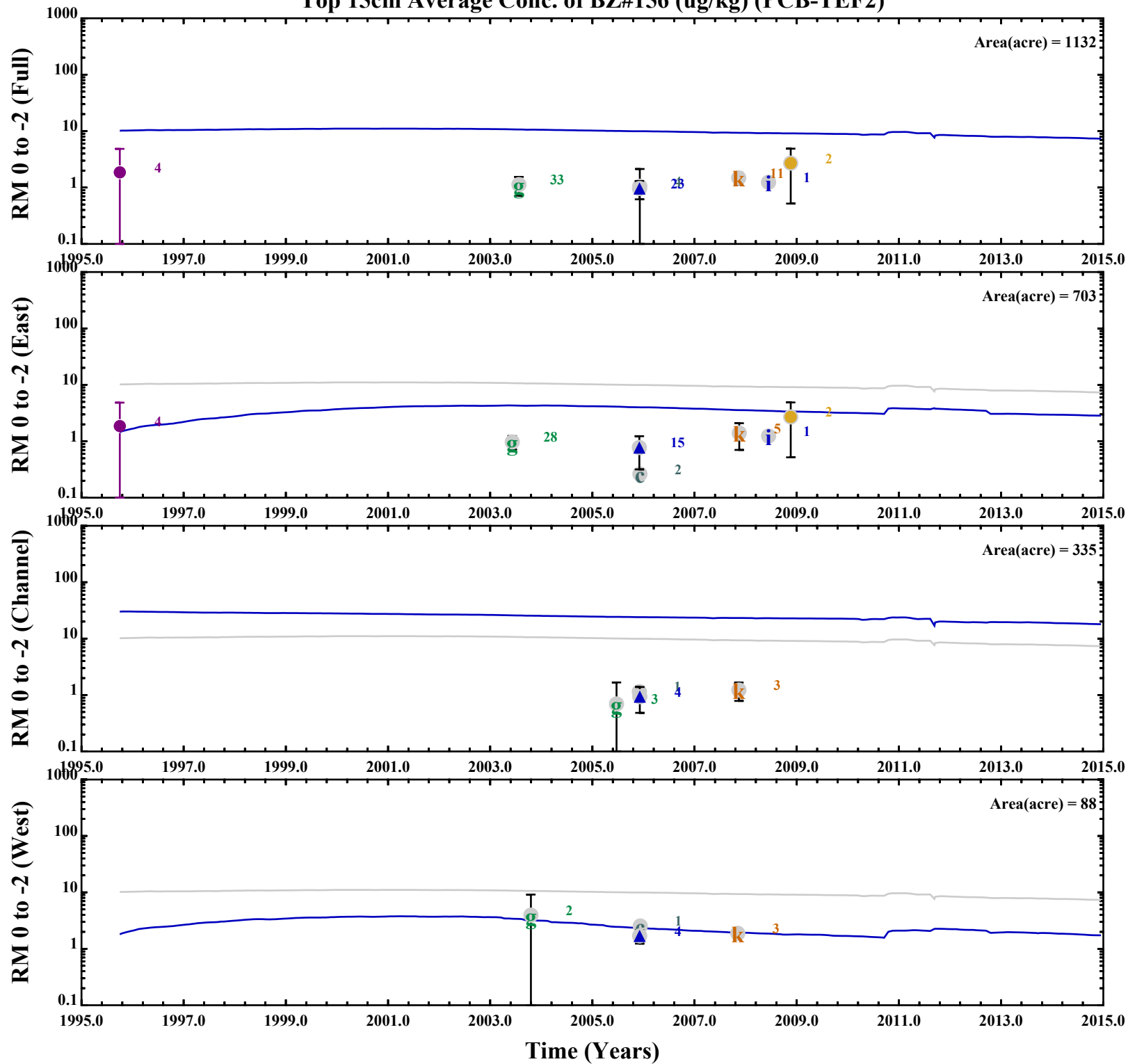


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

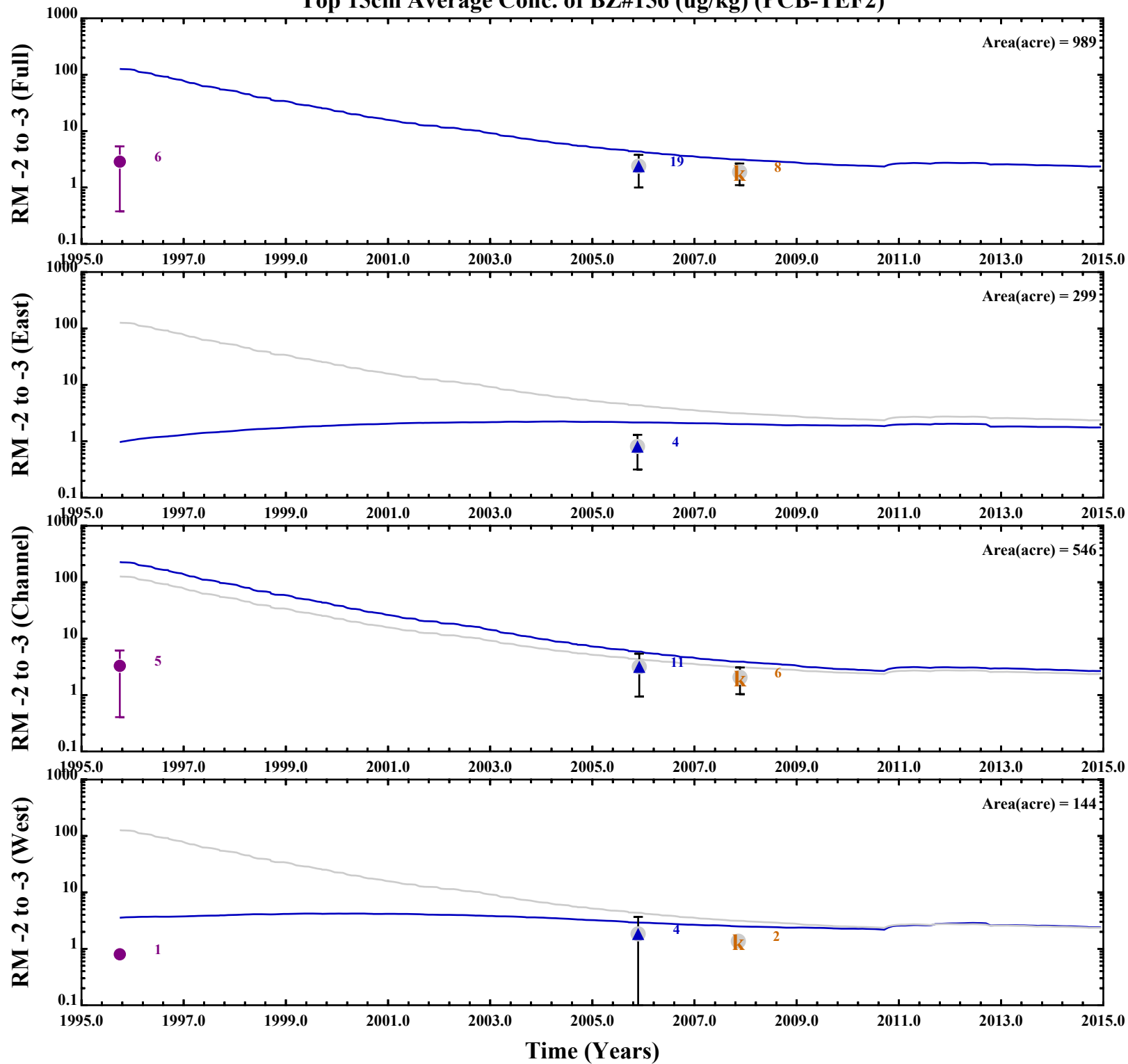
# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

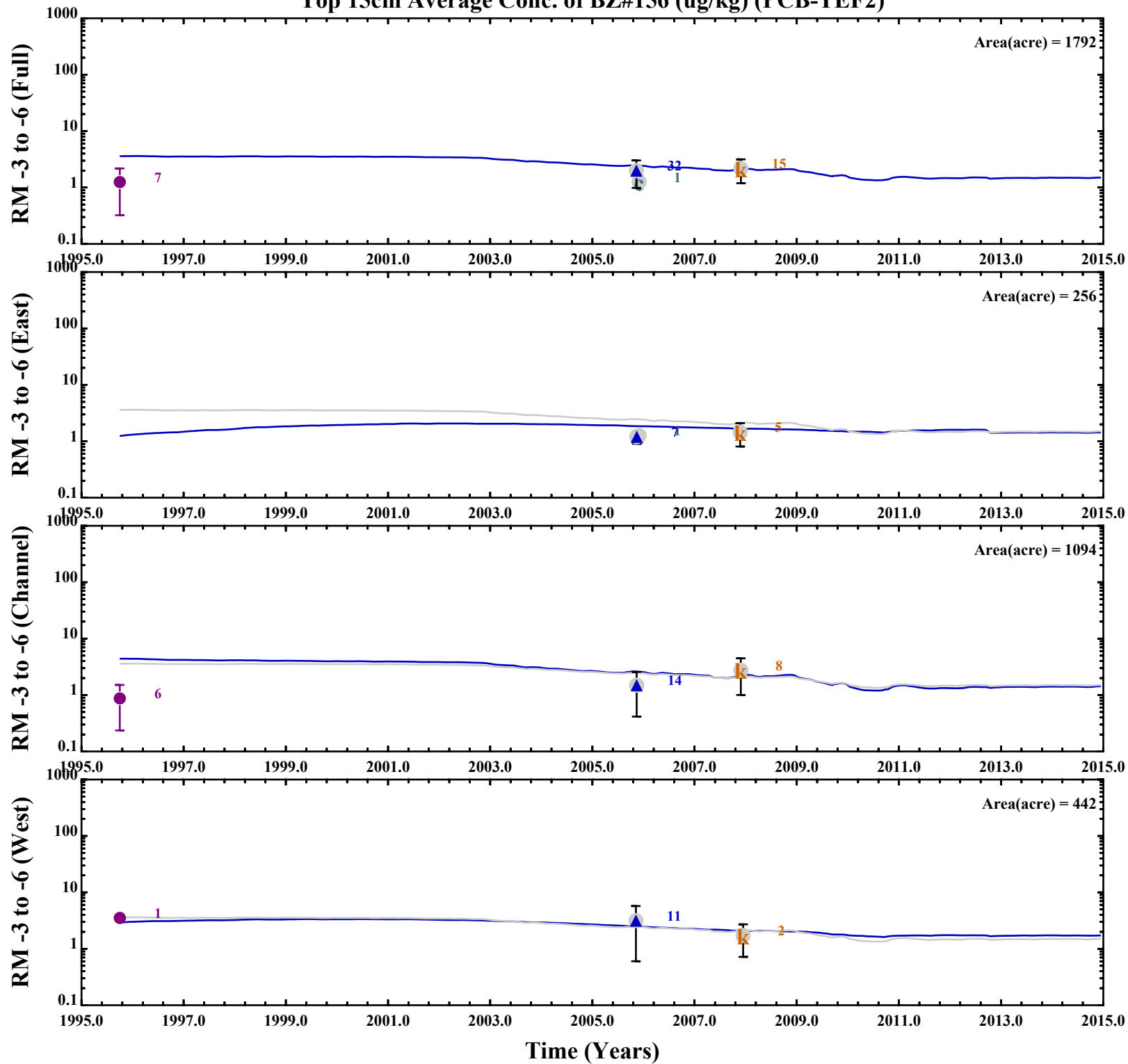


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- ● 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- ■ 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



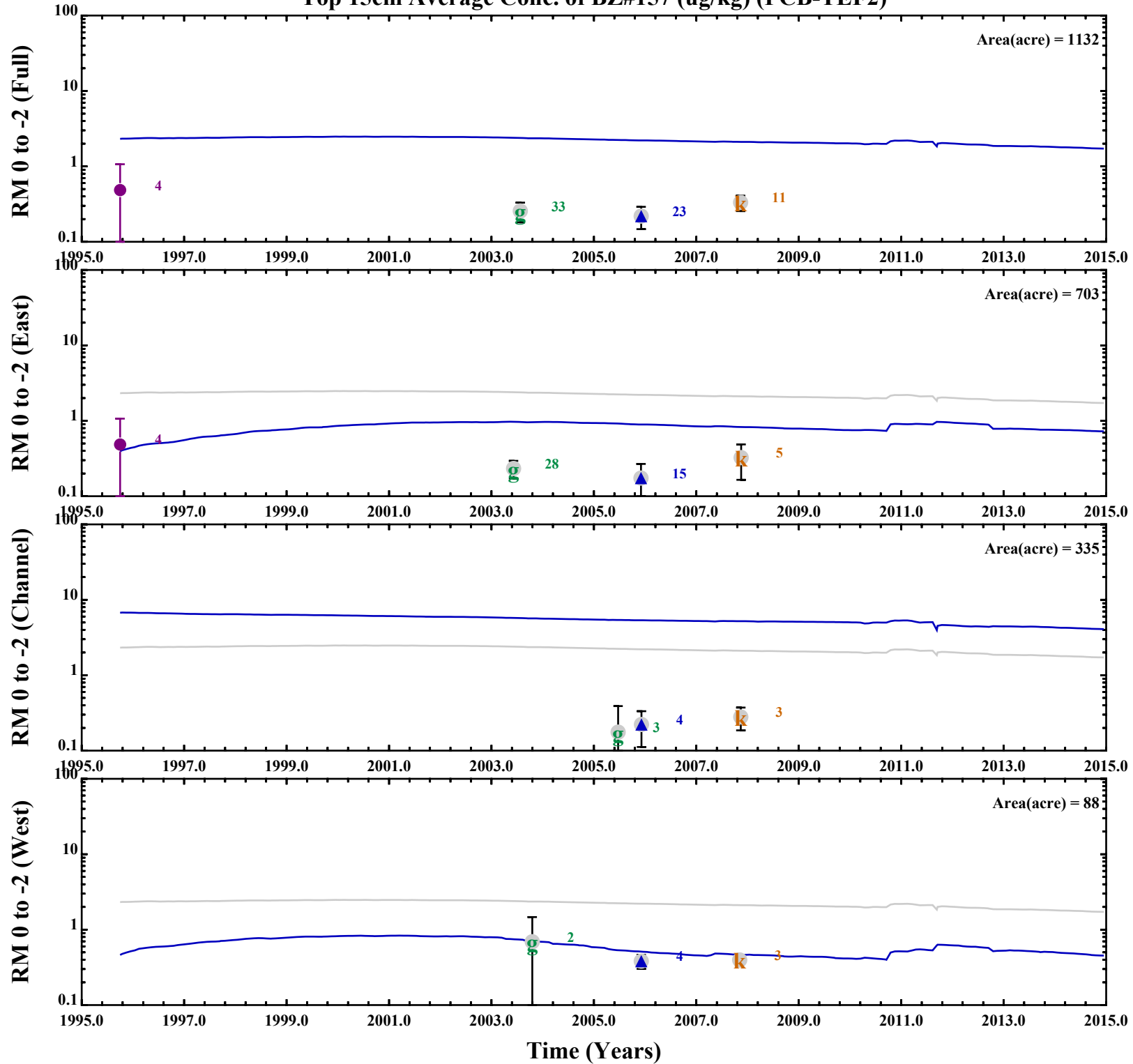
# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- 1996 Newark Bay Reach A Sediment Sampling Program
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

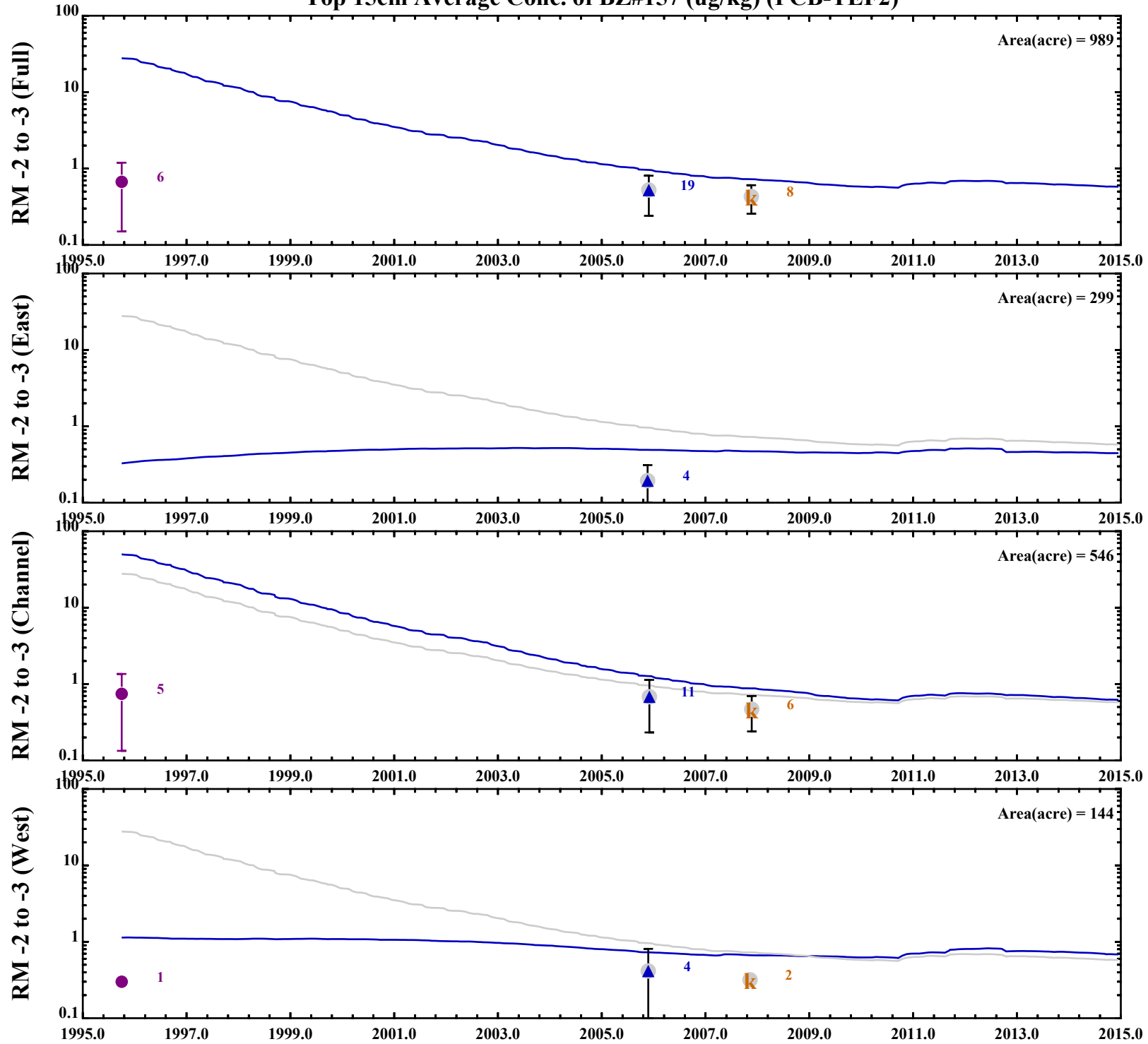
# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

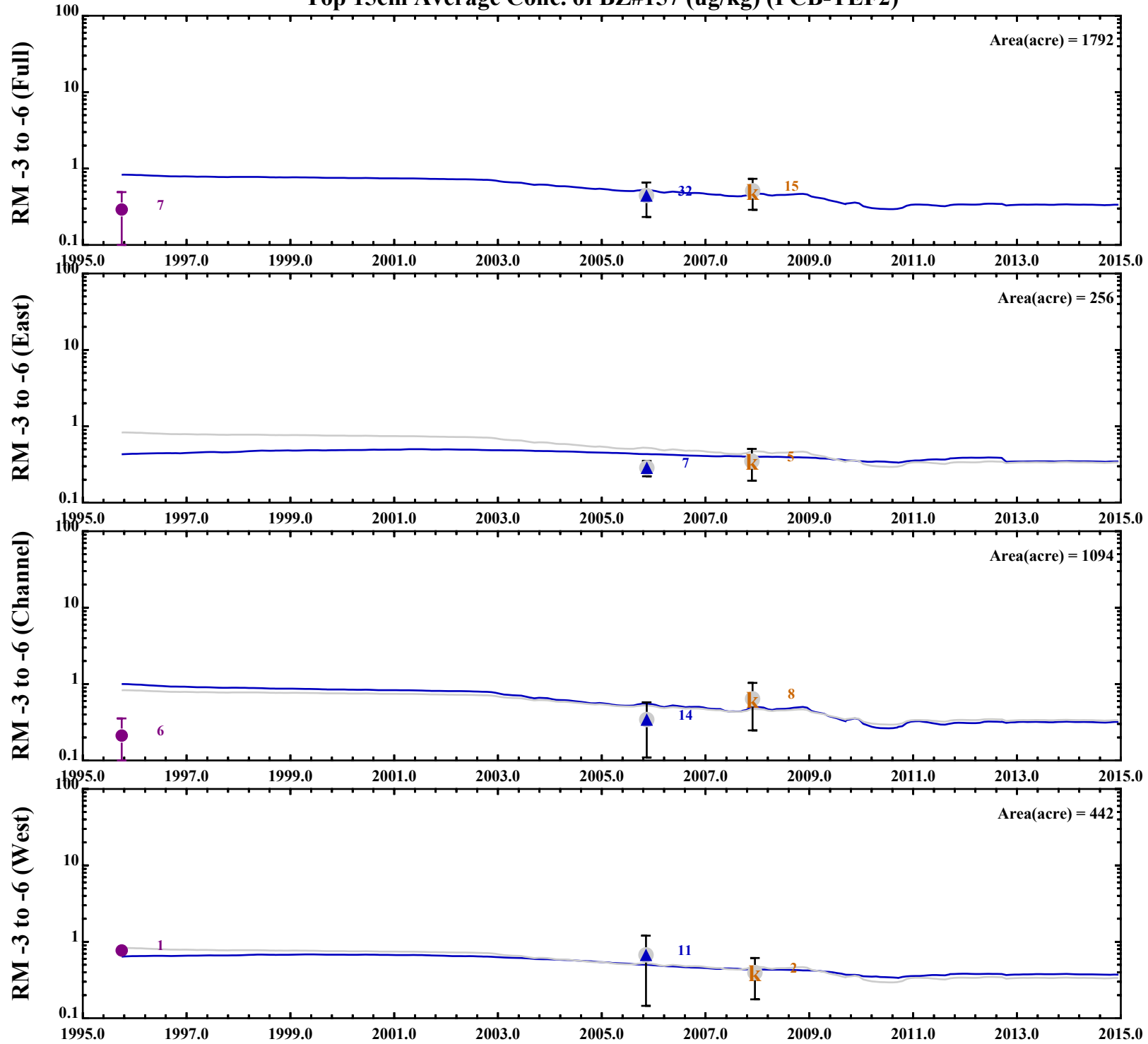


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- ● 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- ■ 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

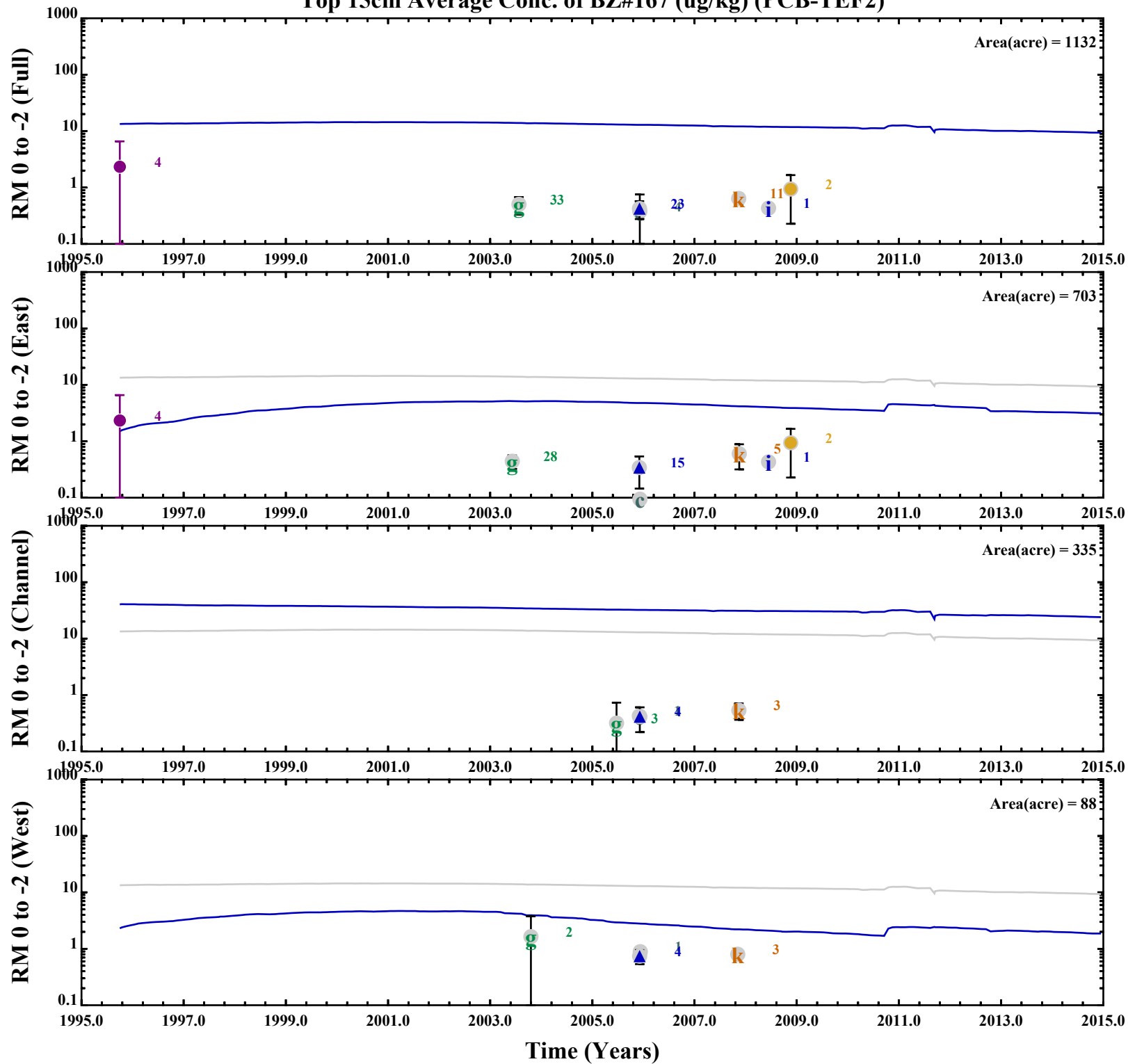


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
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- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

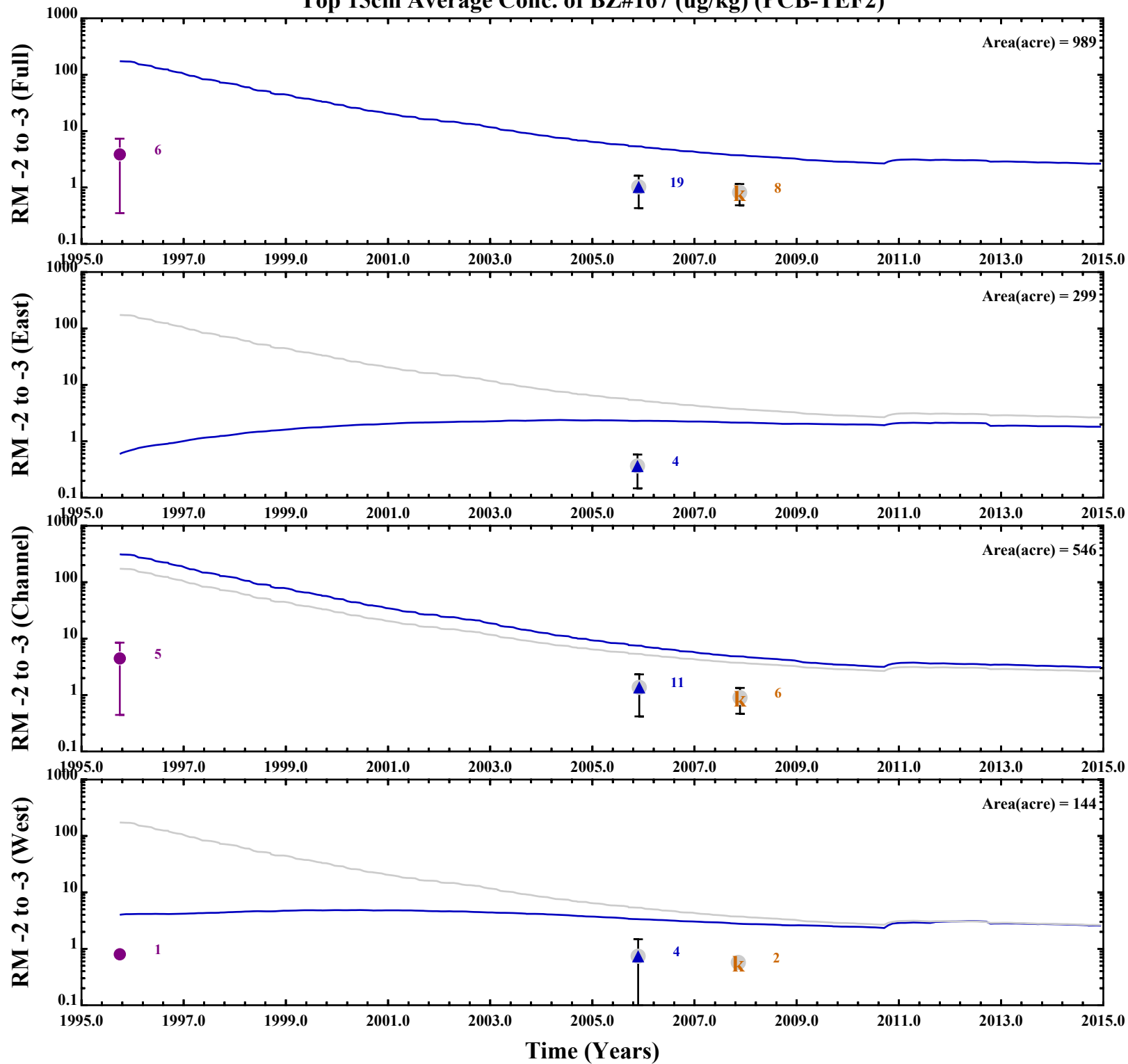
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

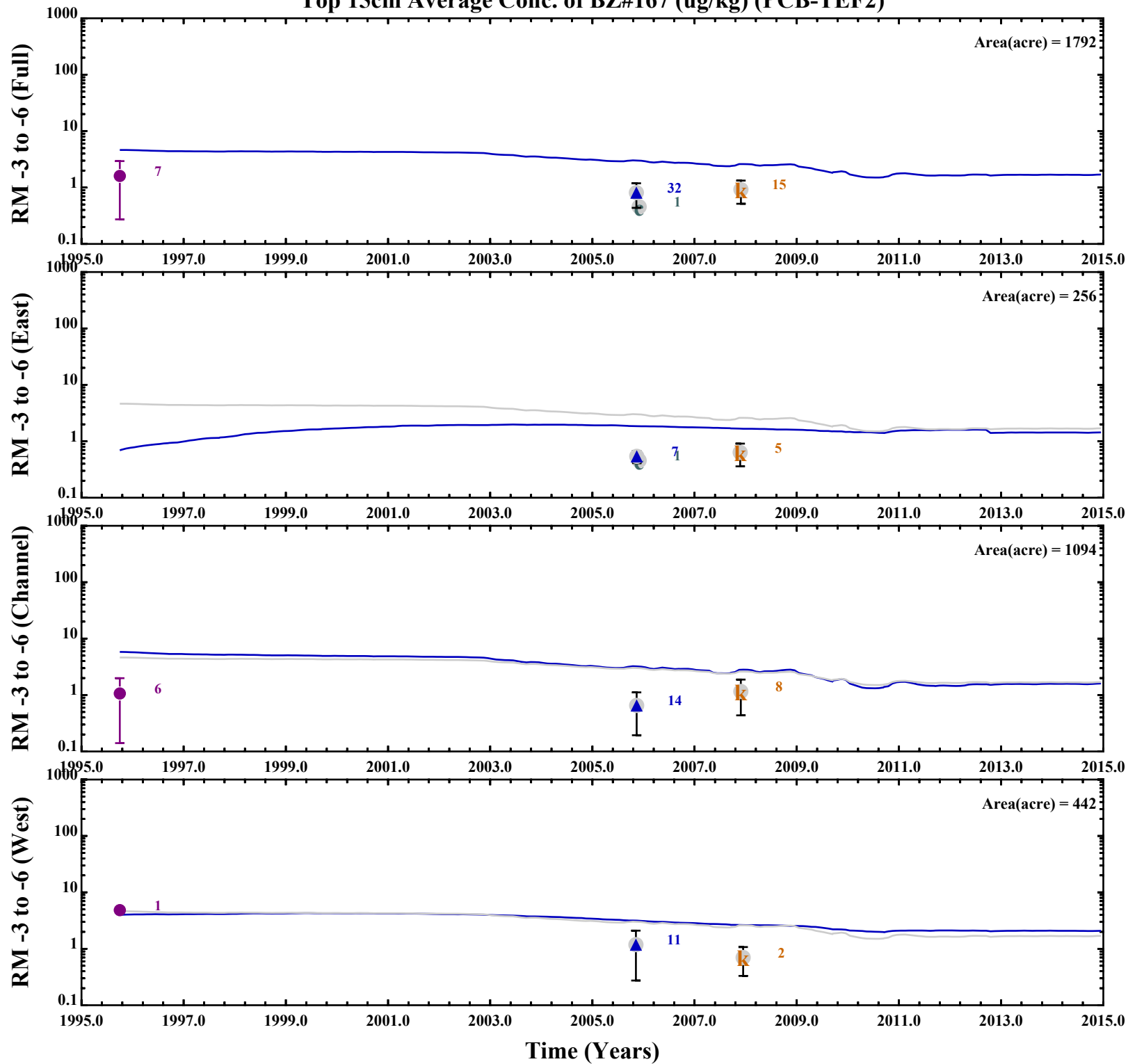
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
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- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

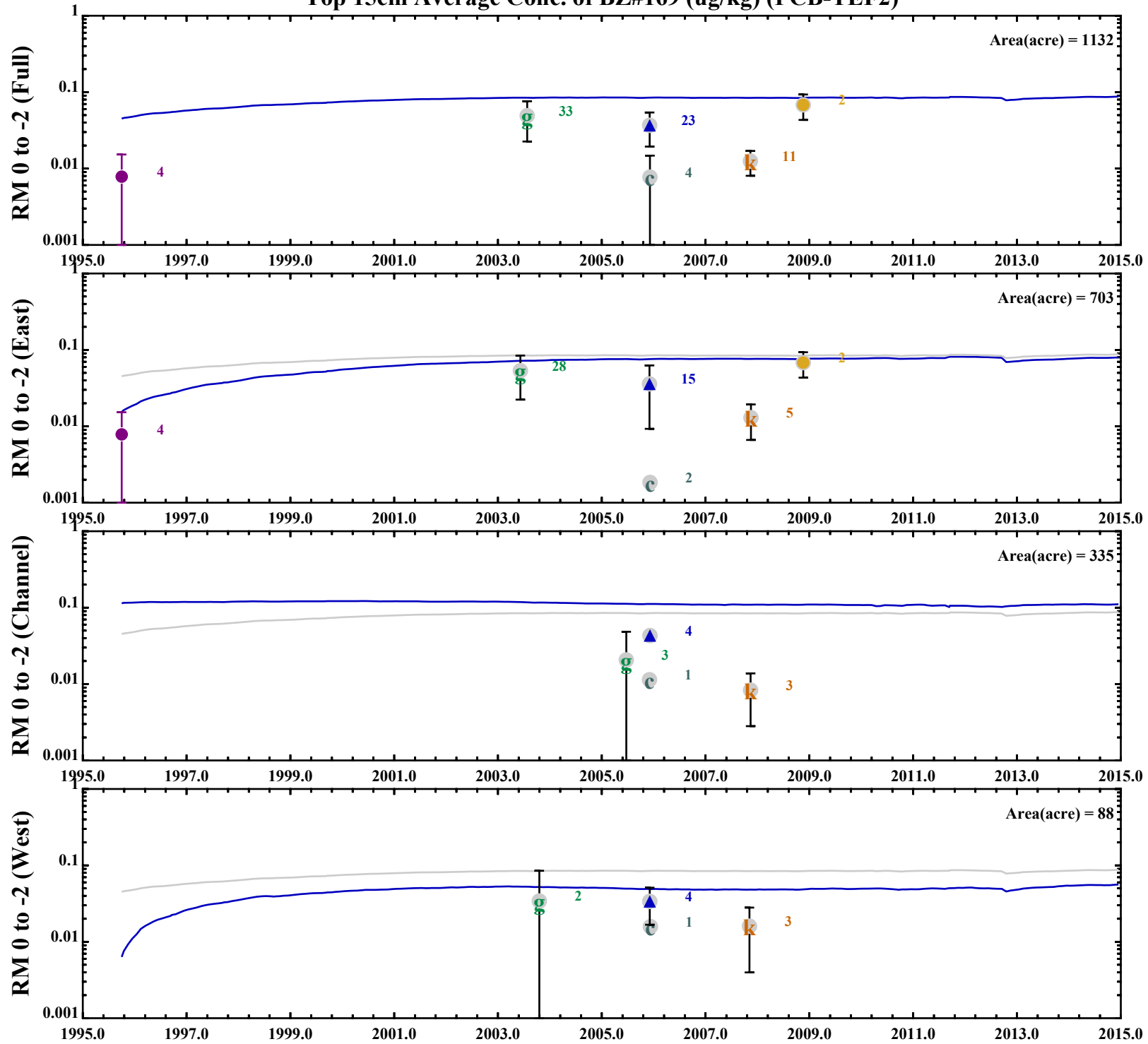
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- 2012 CDMSmith LowRes Coring Supplemental
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)

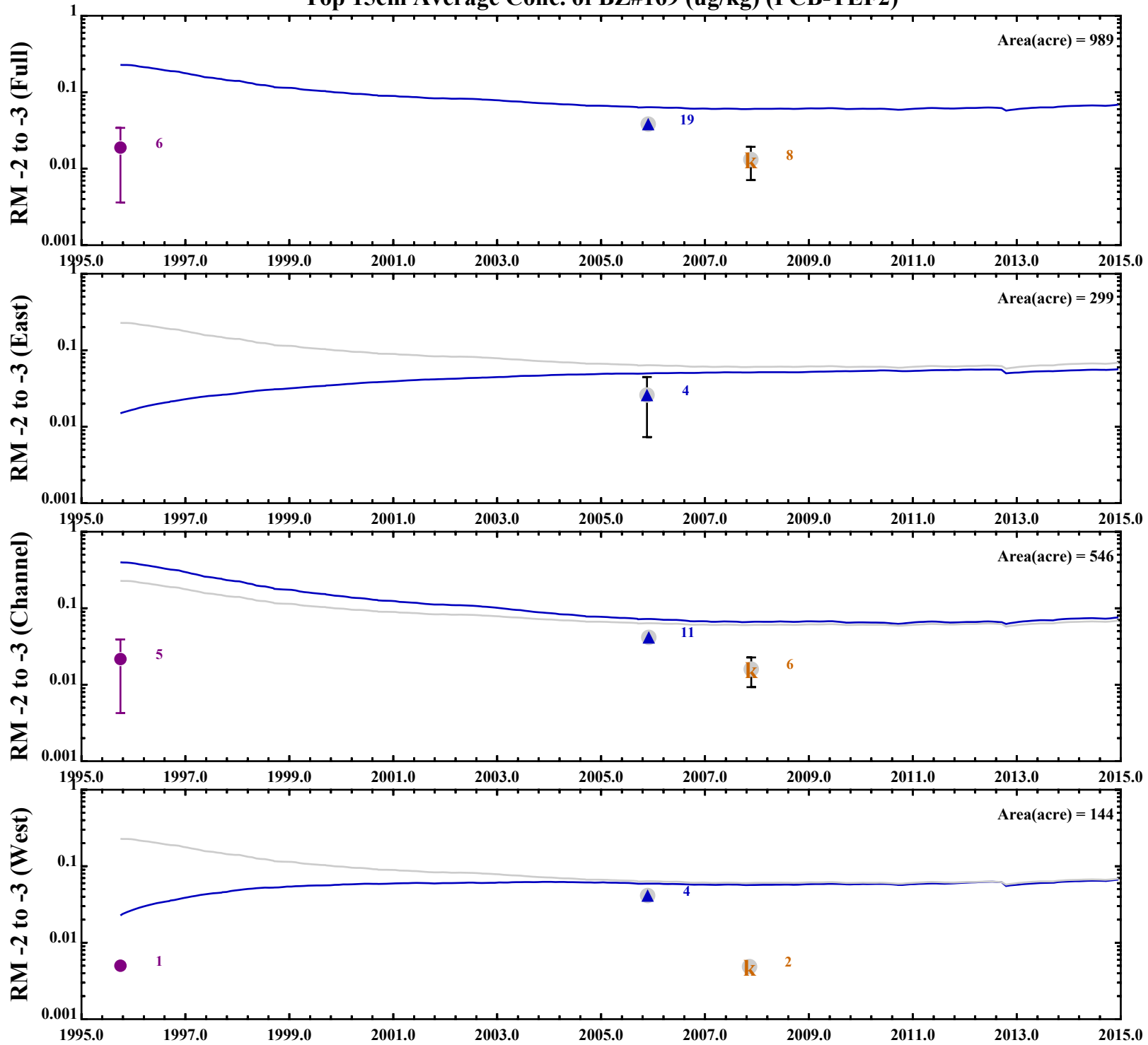


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
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- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)

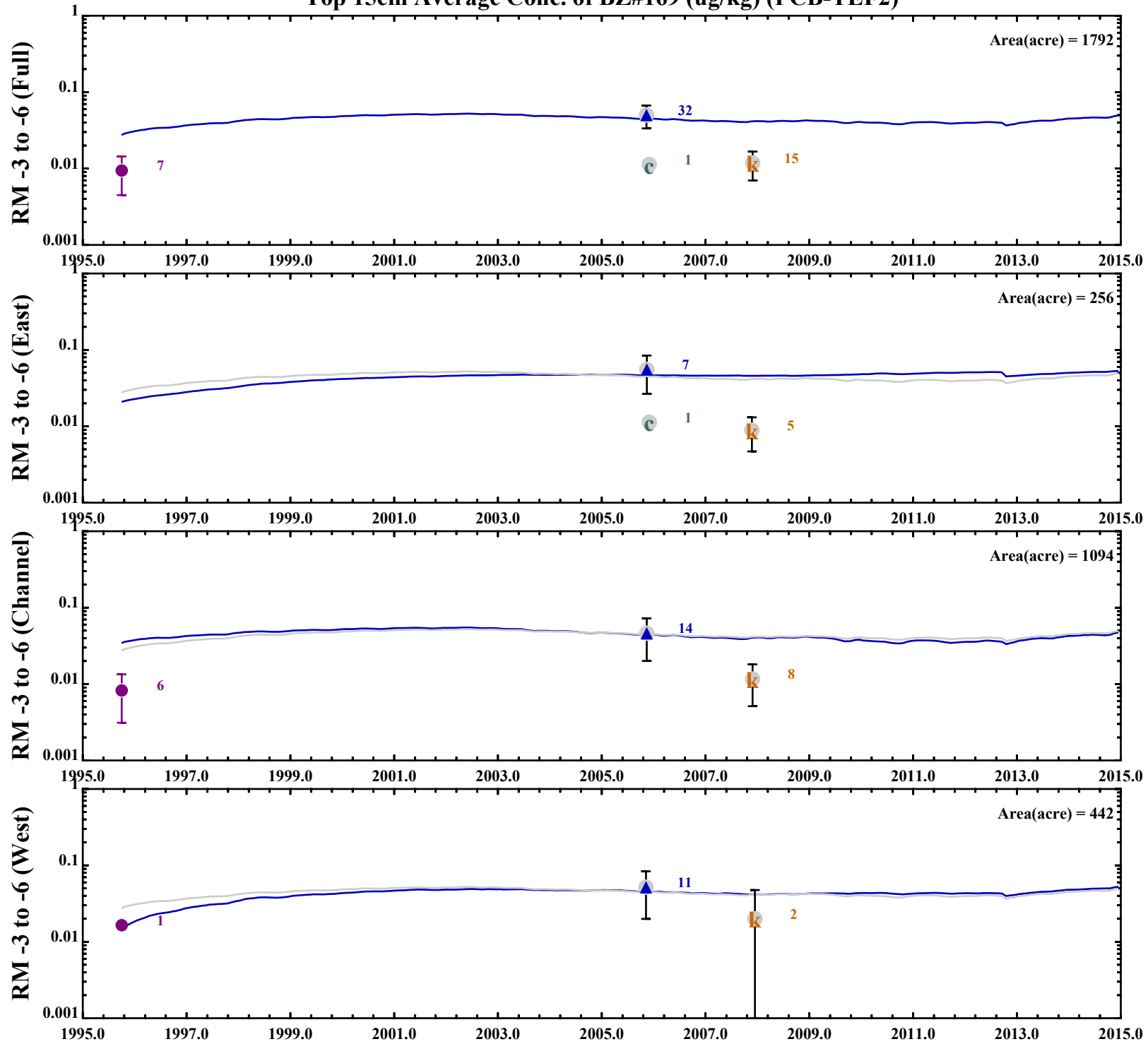


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- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- ▲ 2009 USEPA-MPI Benthic Oversight
- ▲ 2010 CPG Benthic Sediment Sampling
- ▲ 2010 USEPA-CDM Benthic Oversight
- ▲ 2011 CPG River Mile 10.9 Data
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- ▲ 2012 CDMSmith LowRes Coring Supplemental
- ▲ 2012 CPG Background Benthic Sediment
- ▲ 2012 CPG Low Res Coring Supplemental
- ▲ 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)

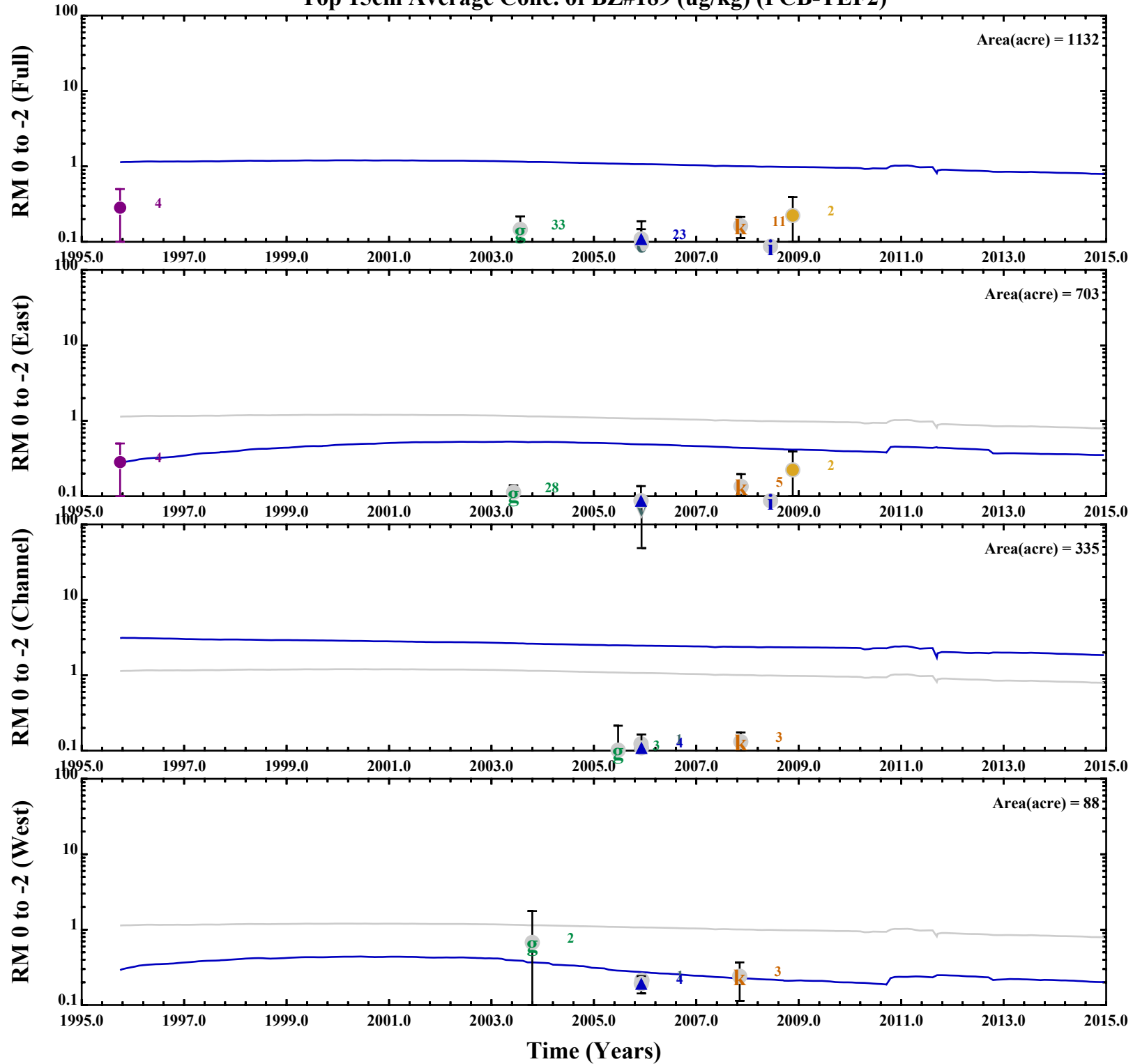


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

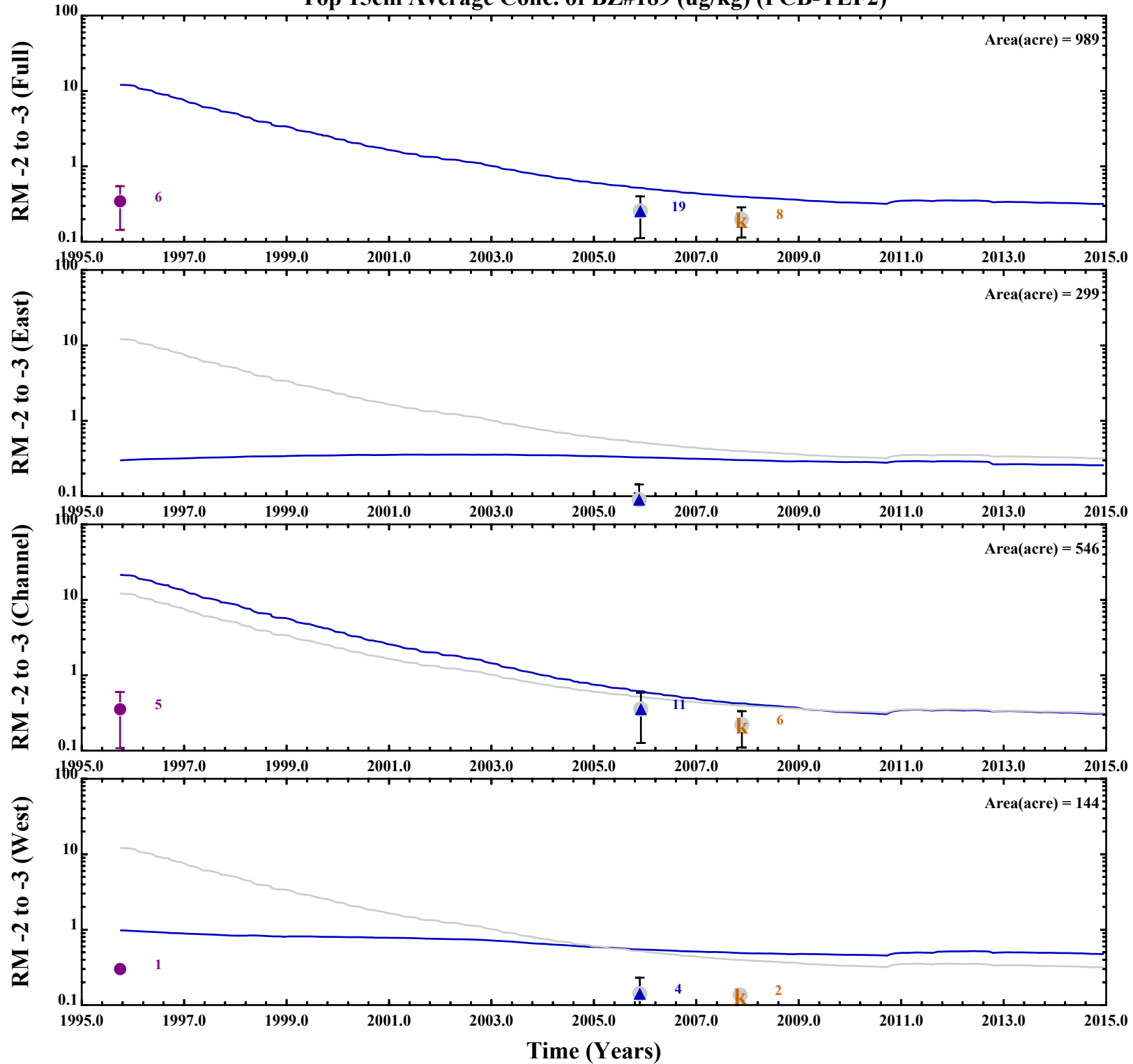
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
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- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)

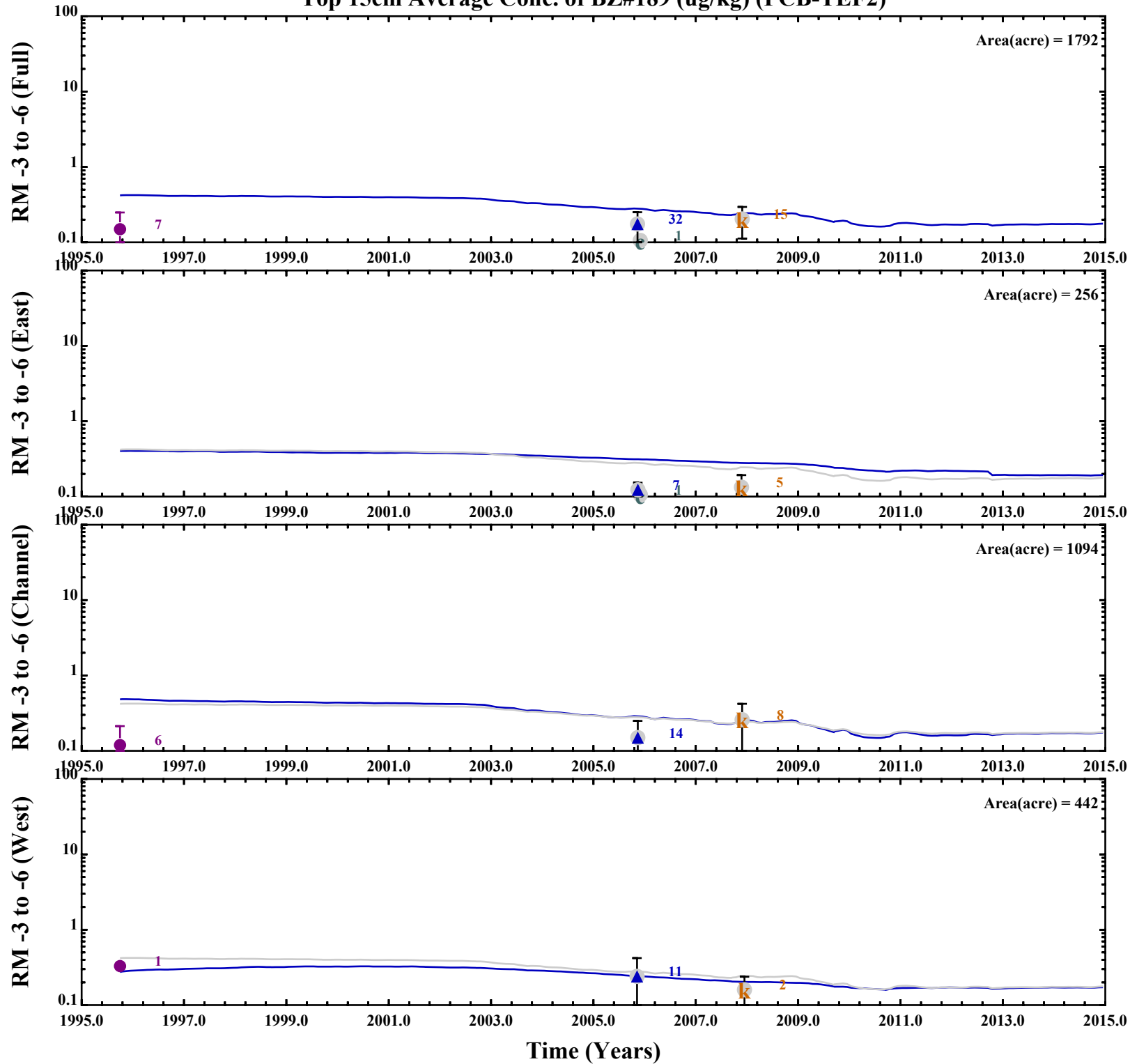


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

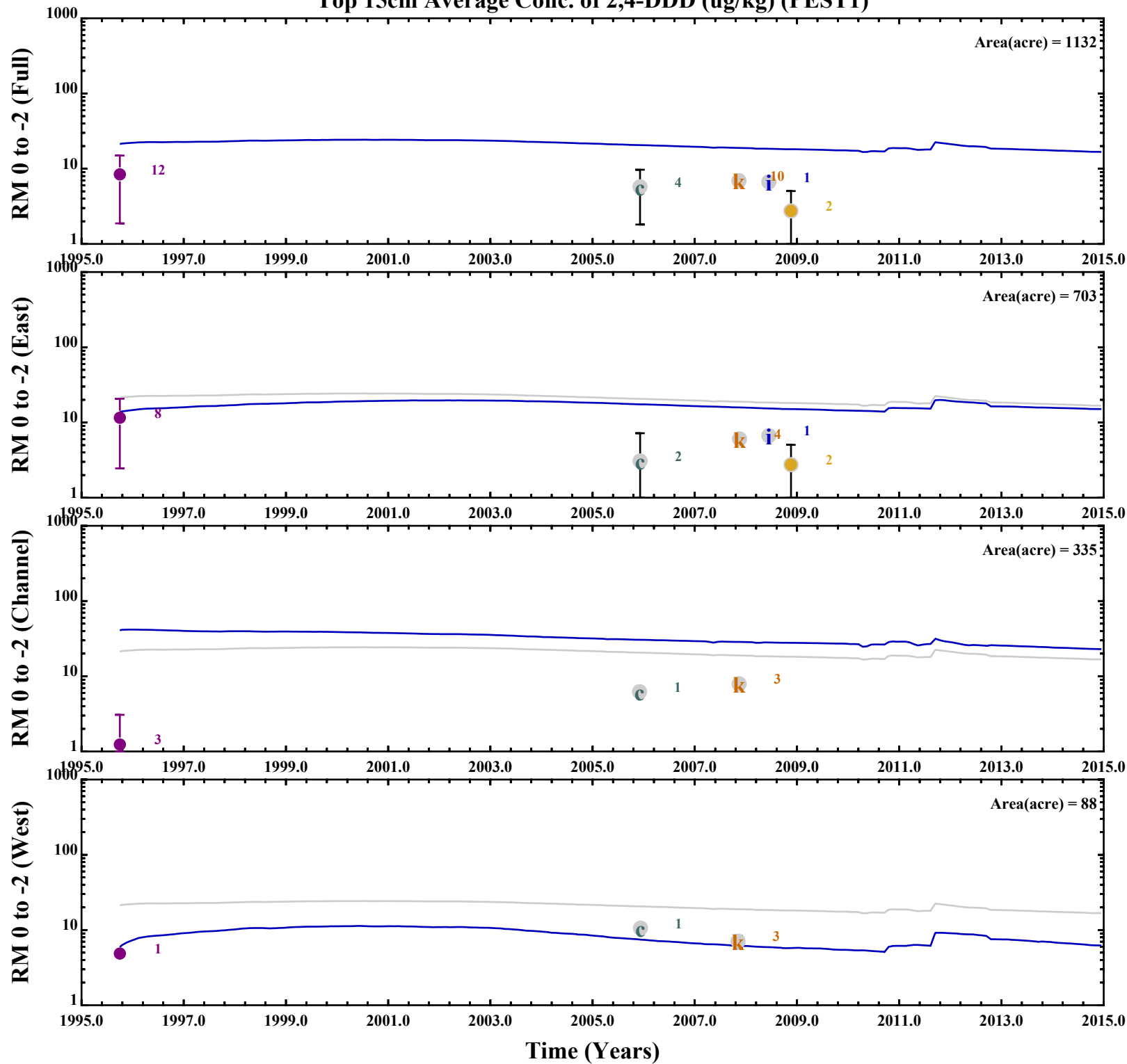
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
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- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

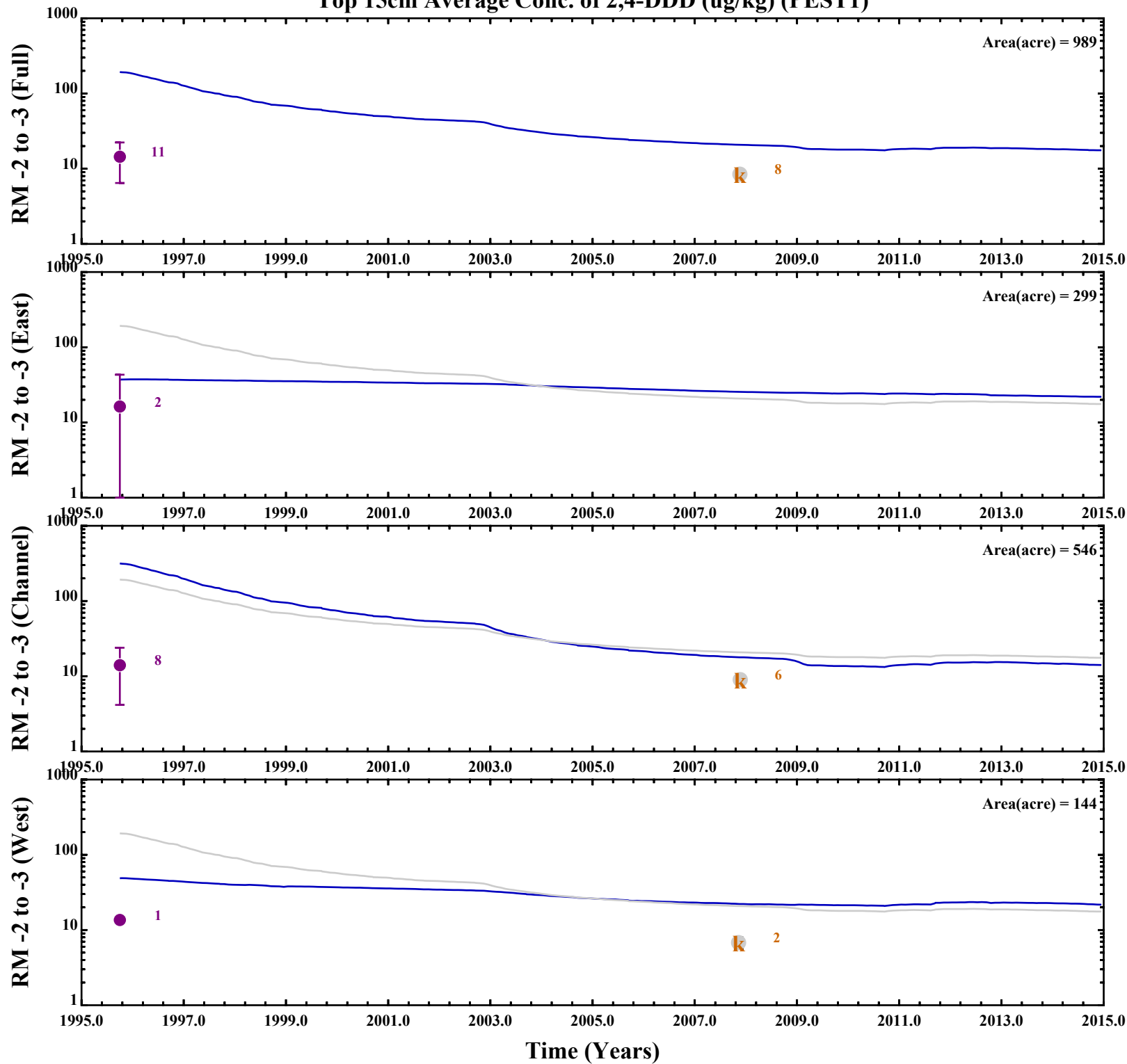
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
- 1994 REMAP
- 1994-95 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- 1998 REMAP
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
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- 2000 Spring ESP Sampling Program
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- 2006 HRSA RI Sampling Program
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

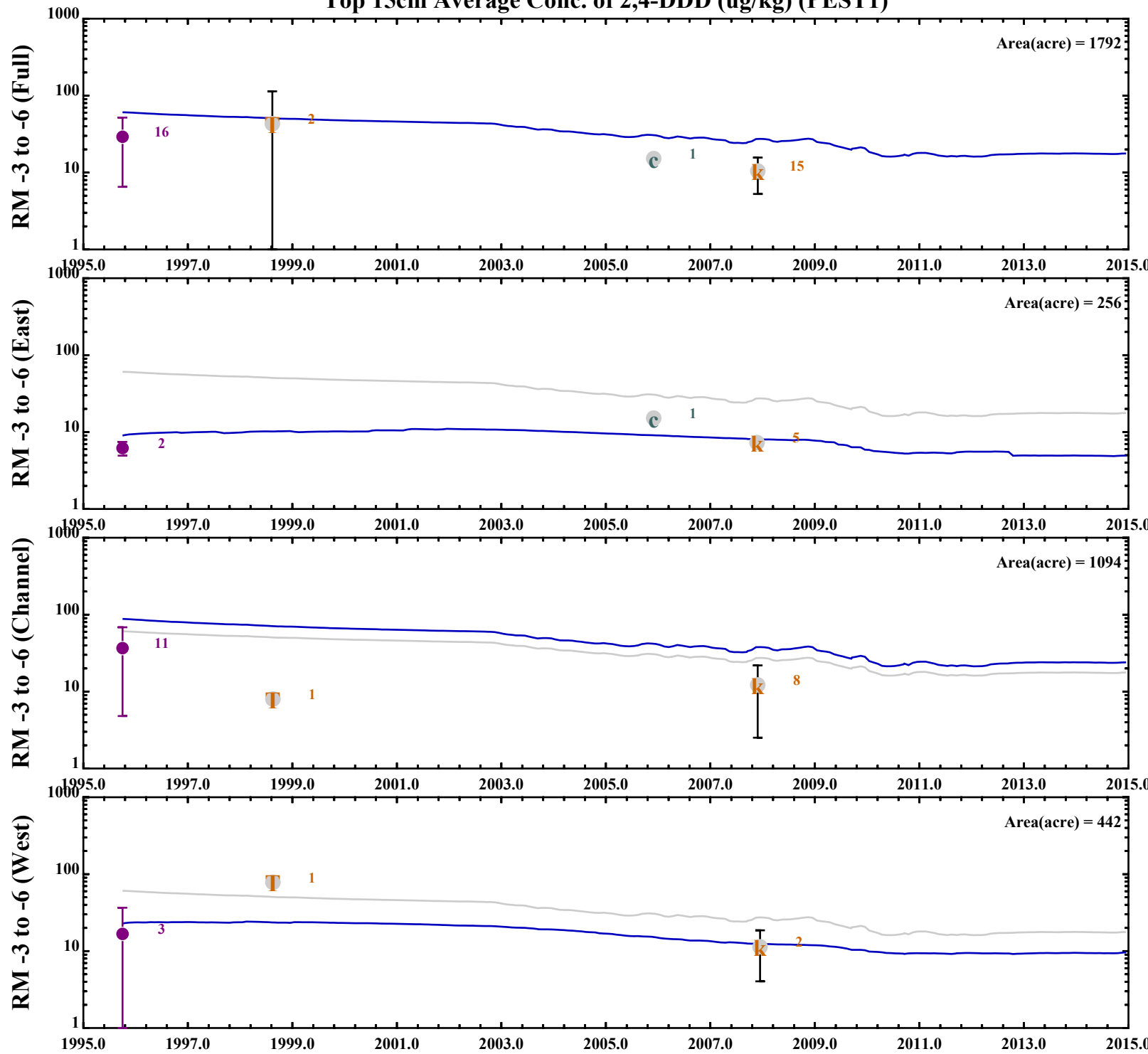
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



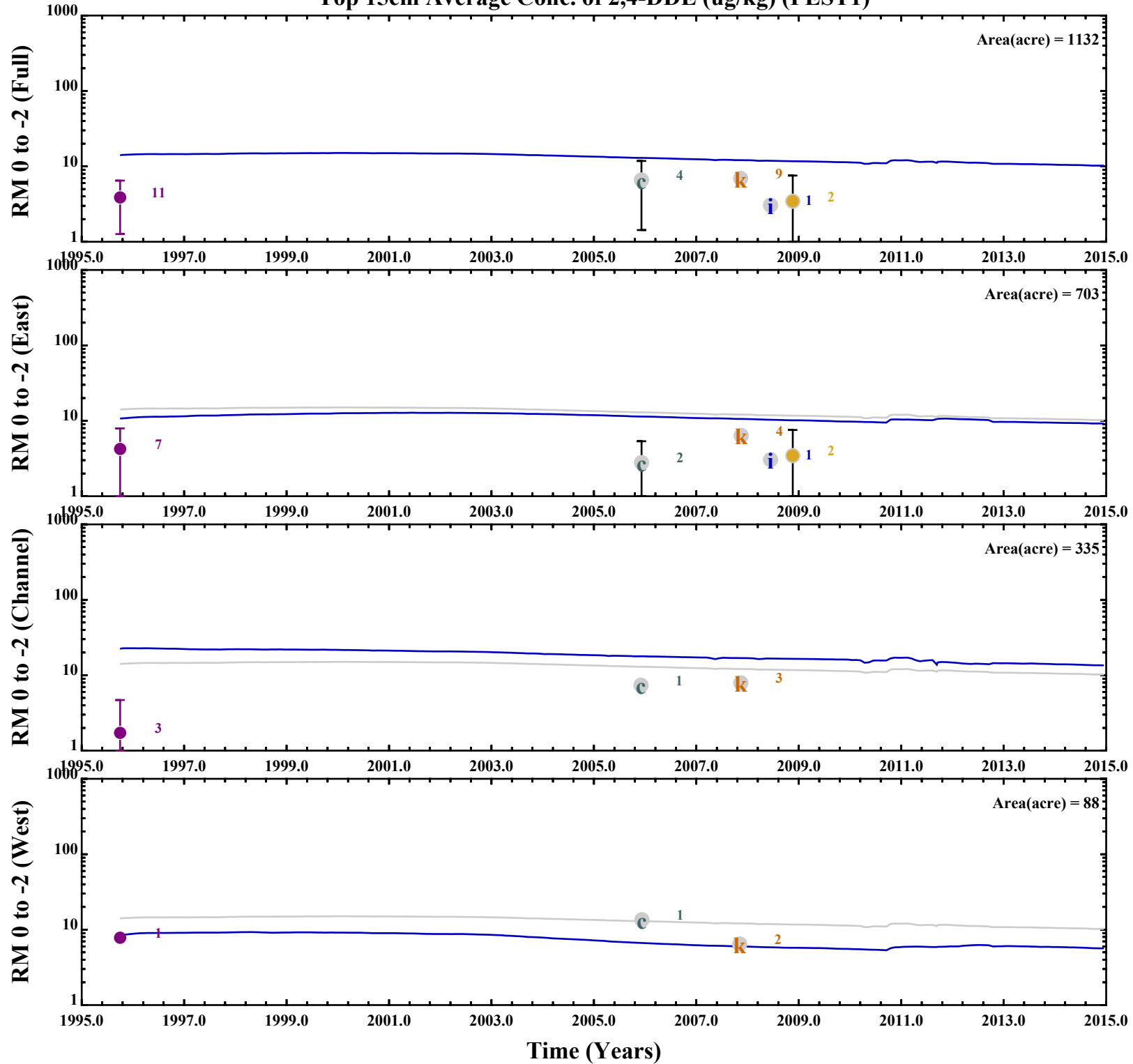
- Data used for ICs
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- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



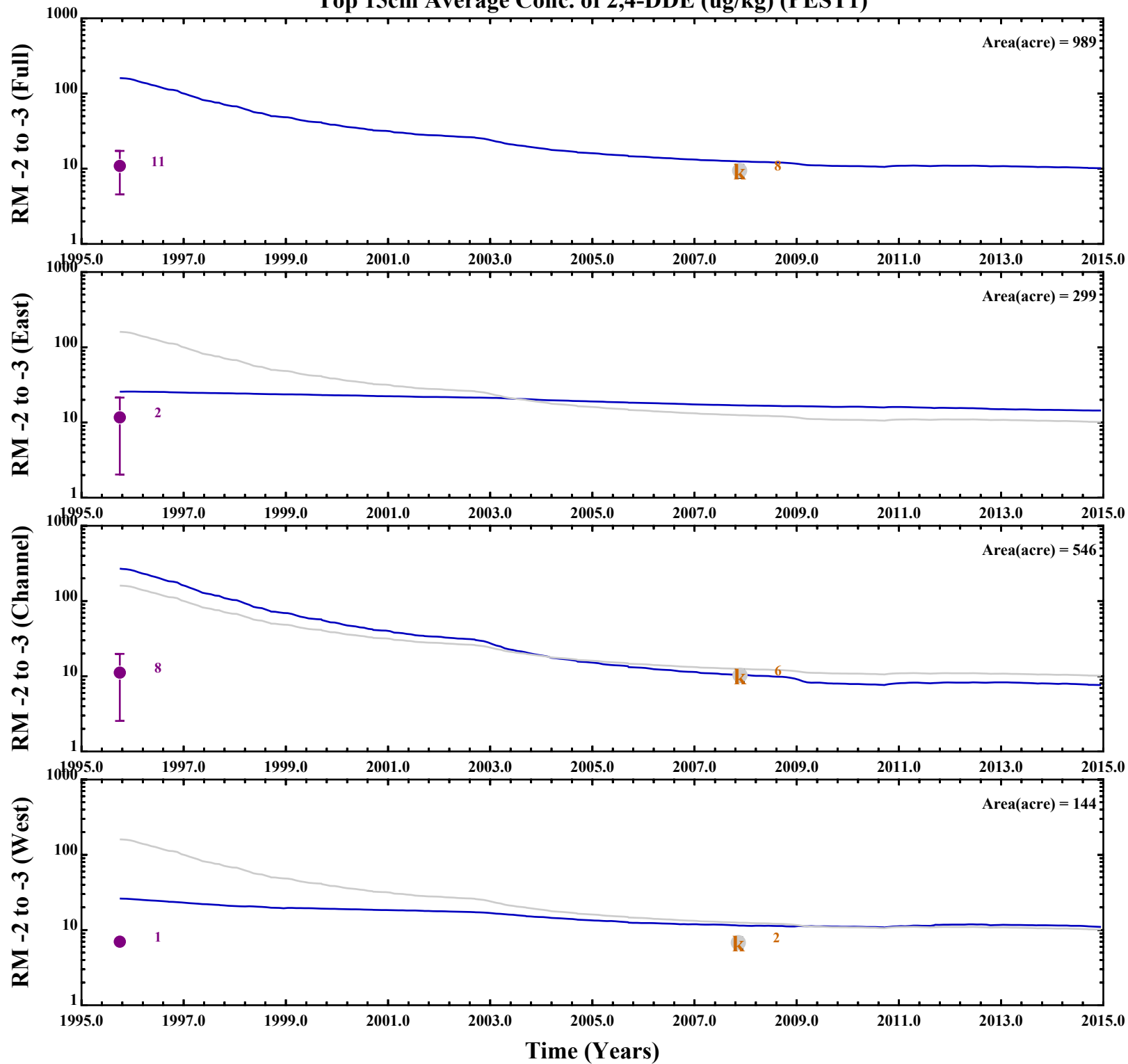
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG Background Benthic Sediment
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— No Action Gradient IC, Reach Scale Up  
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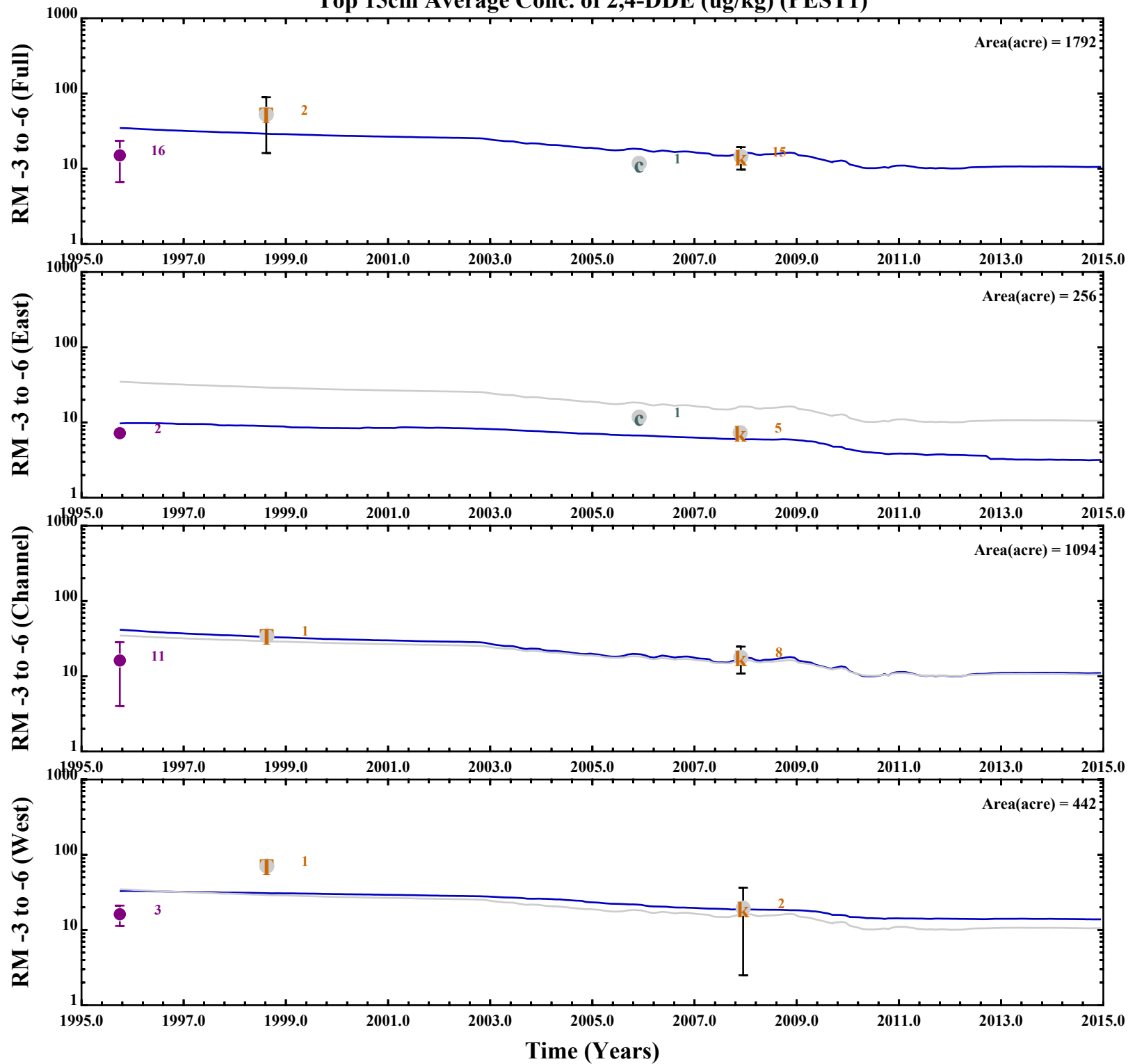
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

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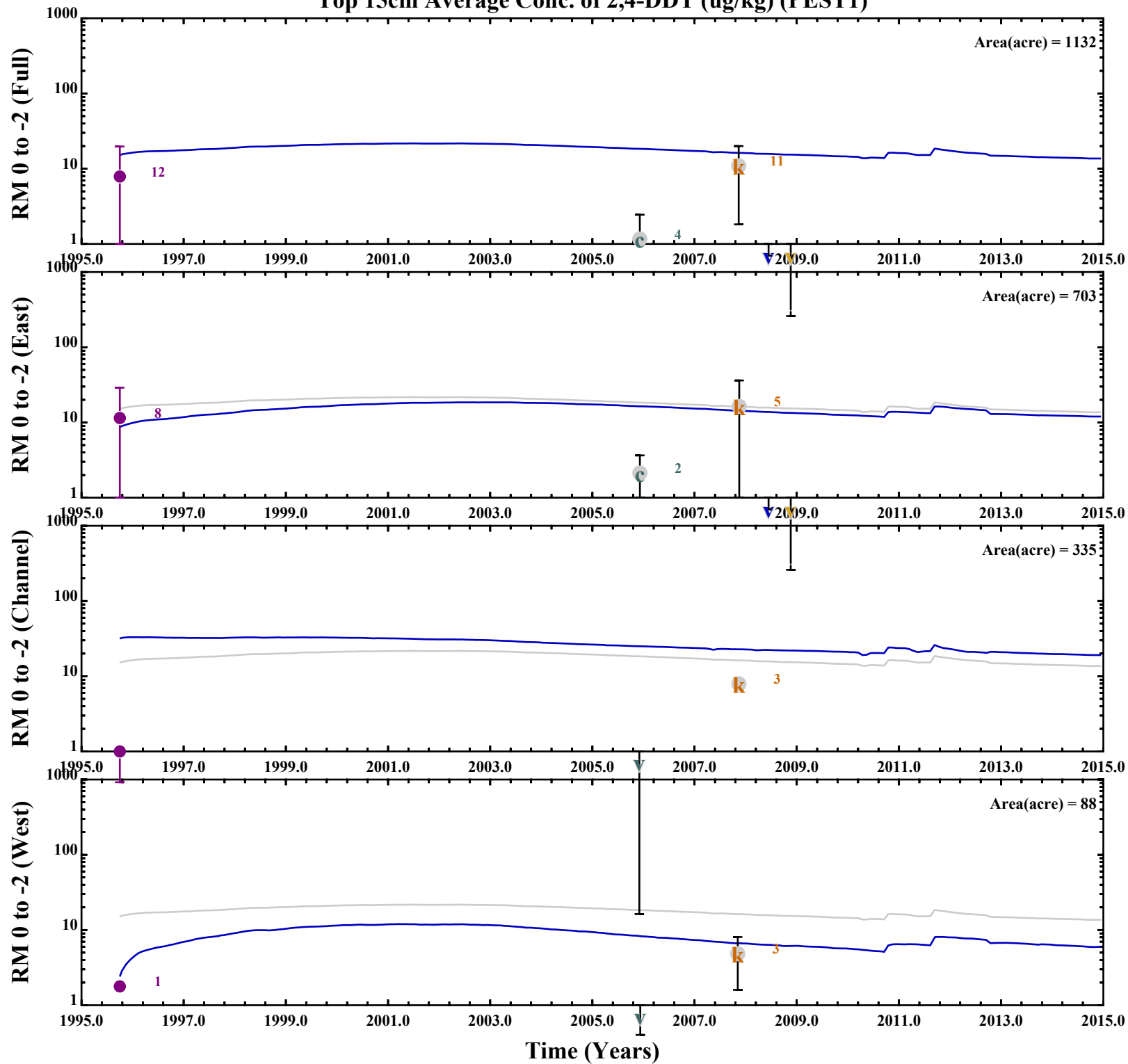


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— No Action Gradient IC, Reach Scale Up

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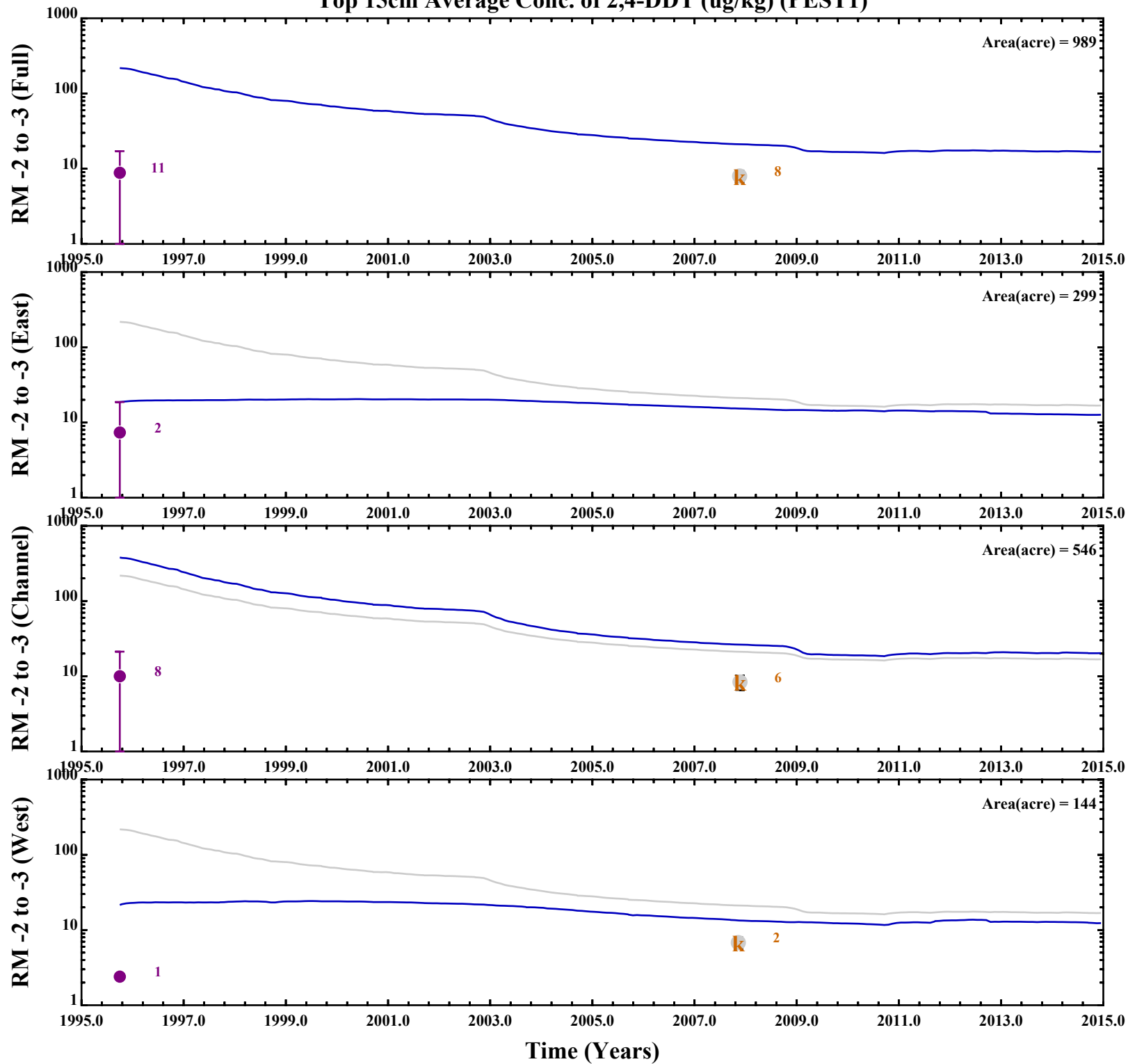
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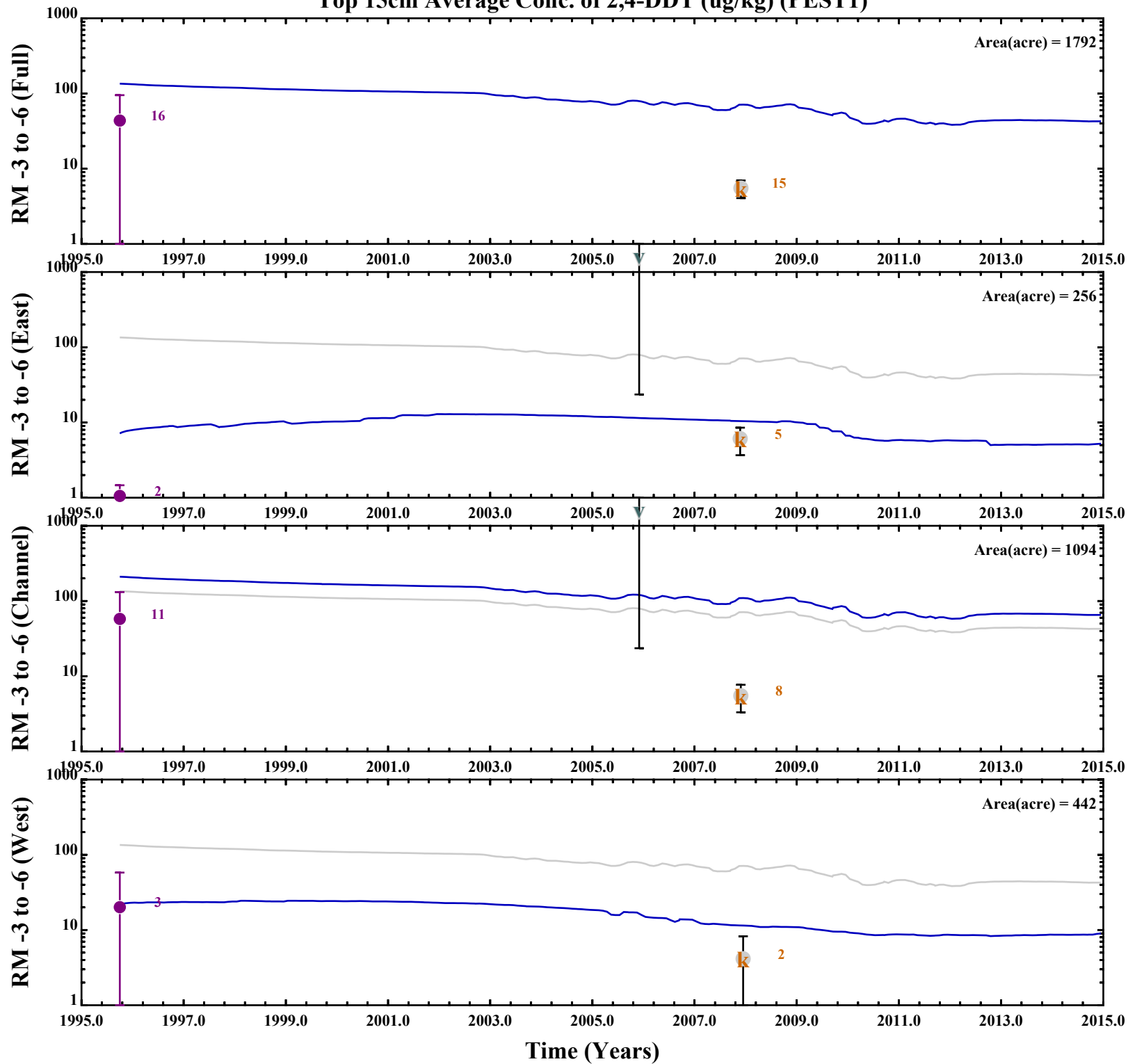


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— No Action Gradient IC, Reach Scale Up (Full Reach)

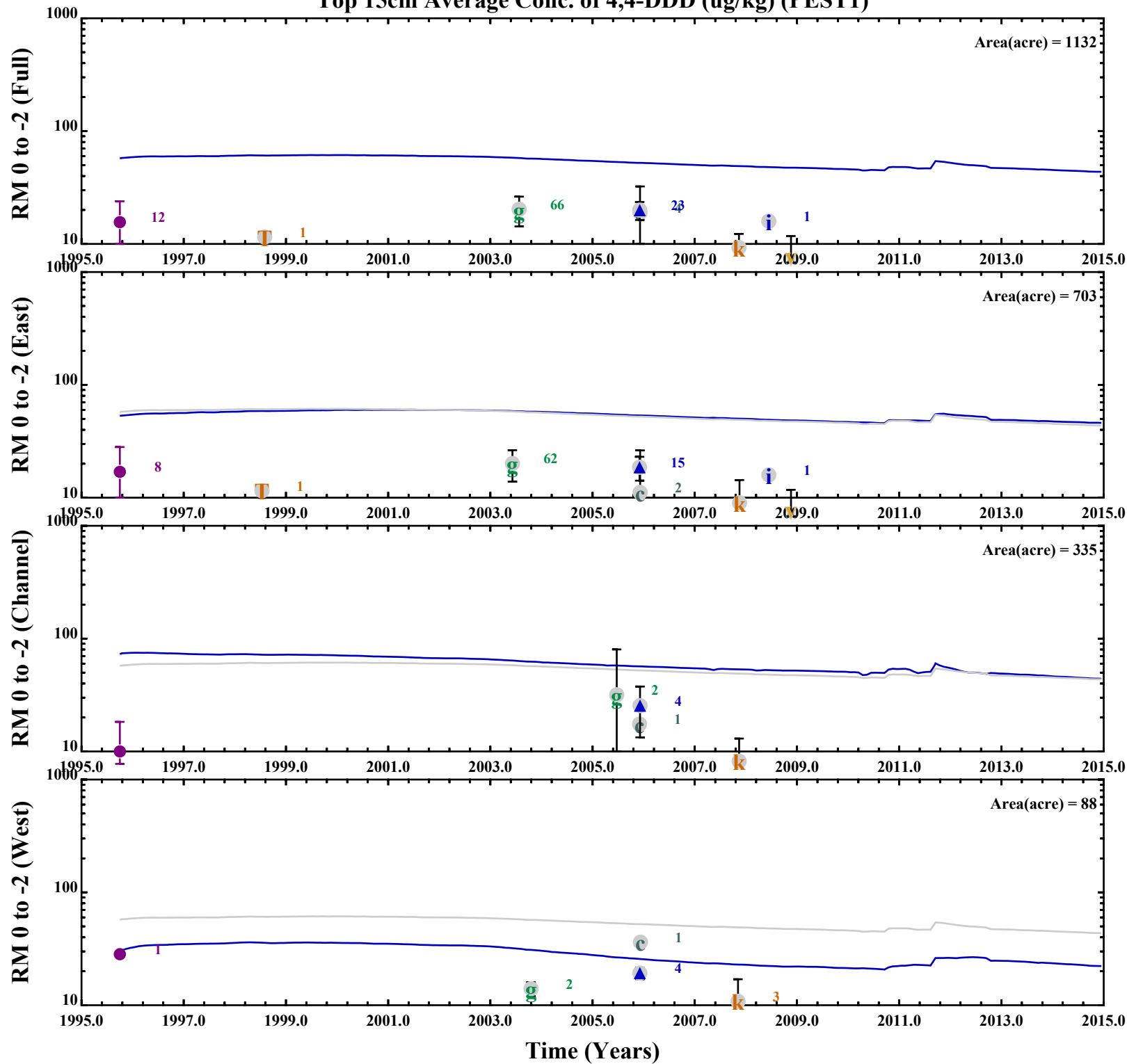
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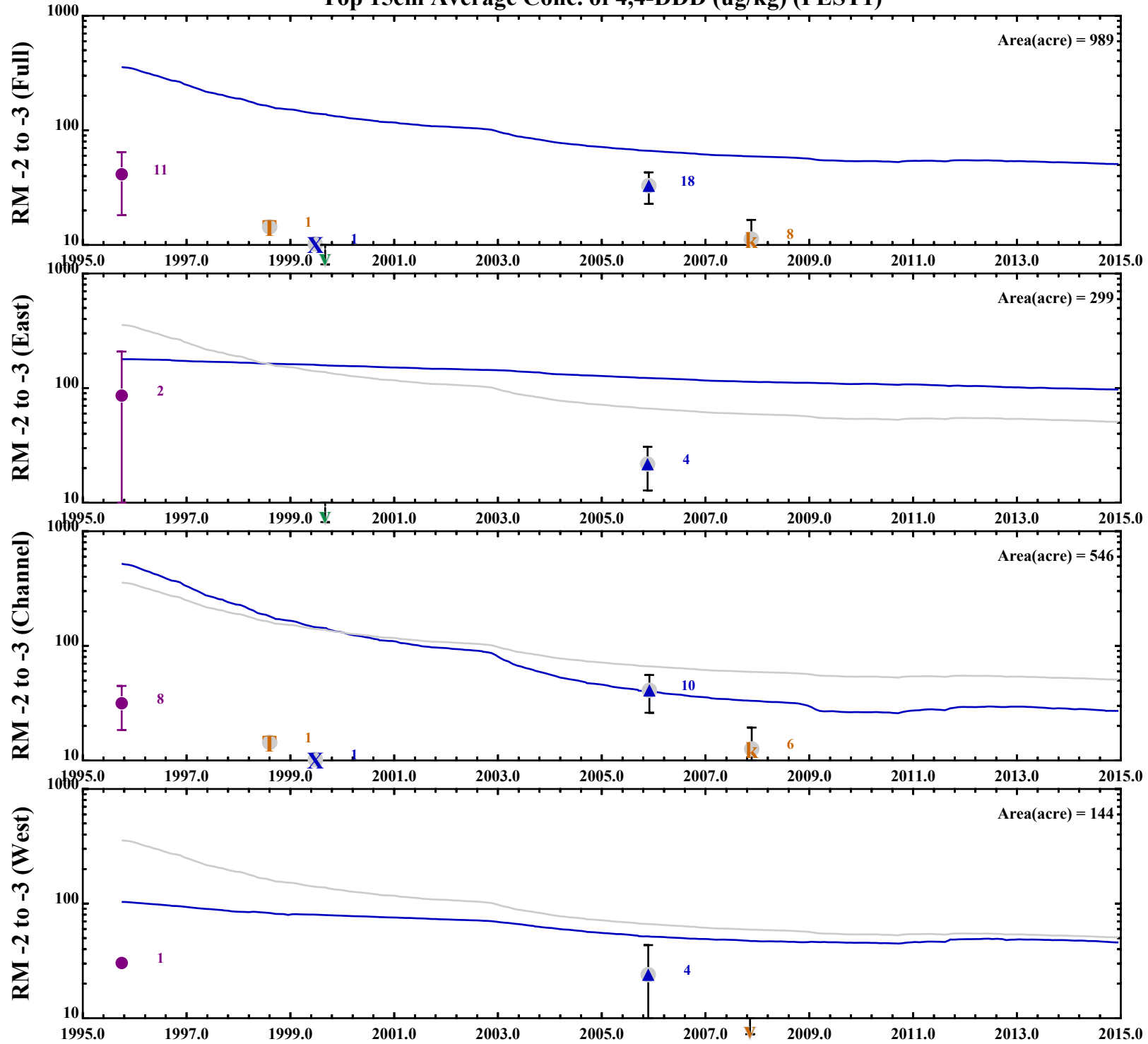


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— No Action Gradient IC, Reach Scale Up

— No Action Gradient IC, Reach Scale Up (Full Reach)

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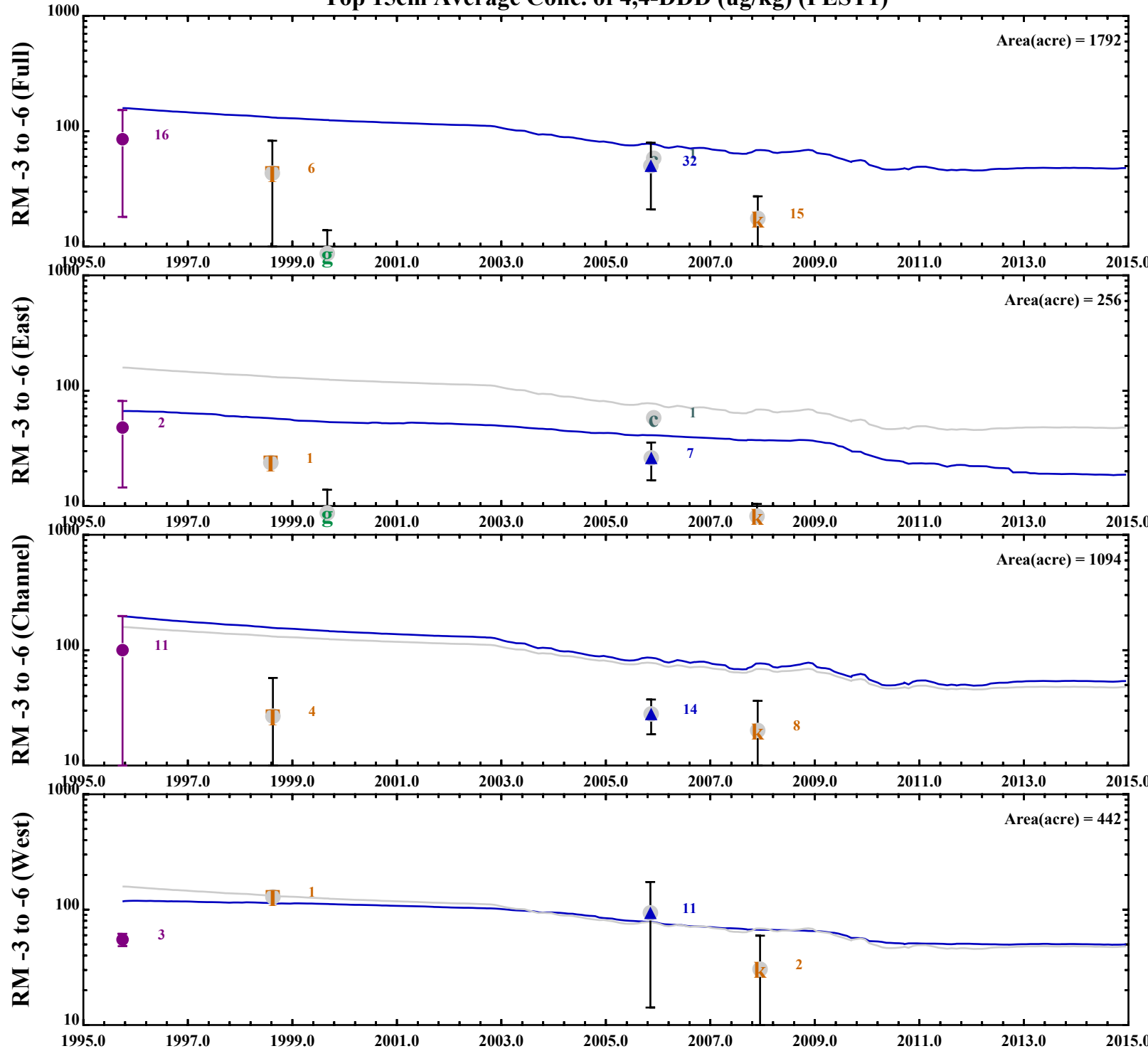
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Time (Years)



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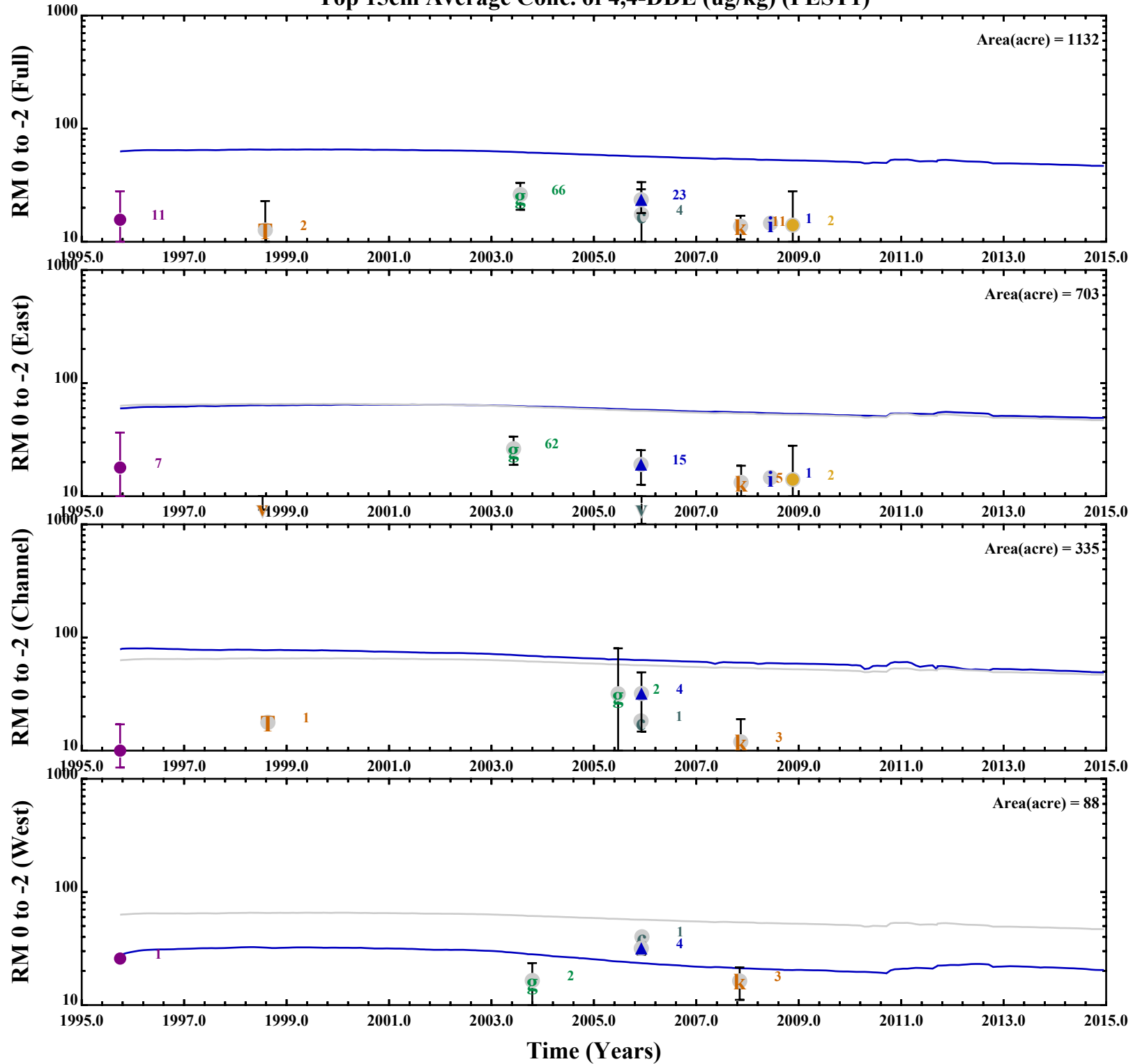


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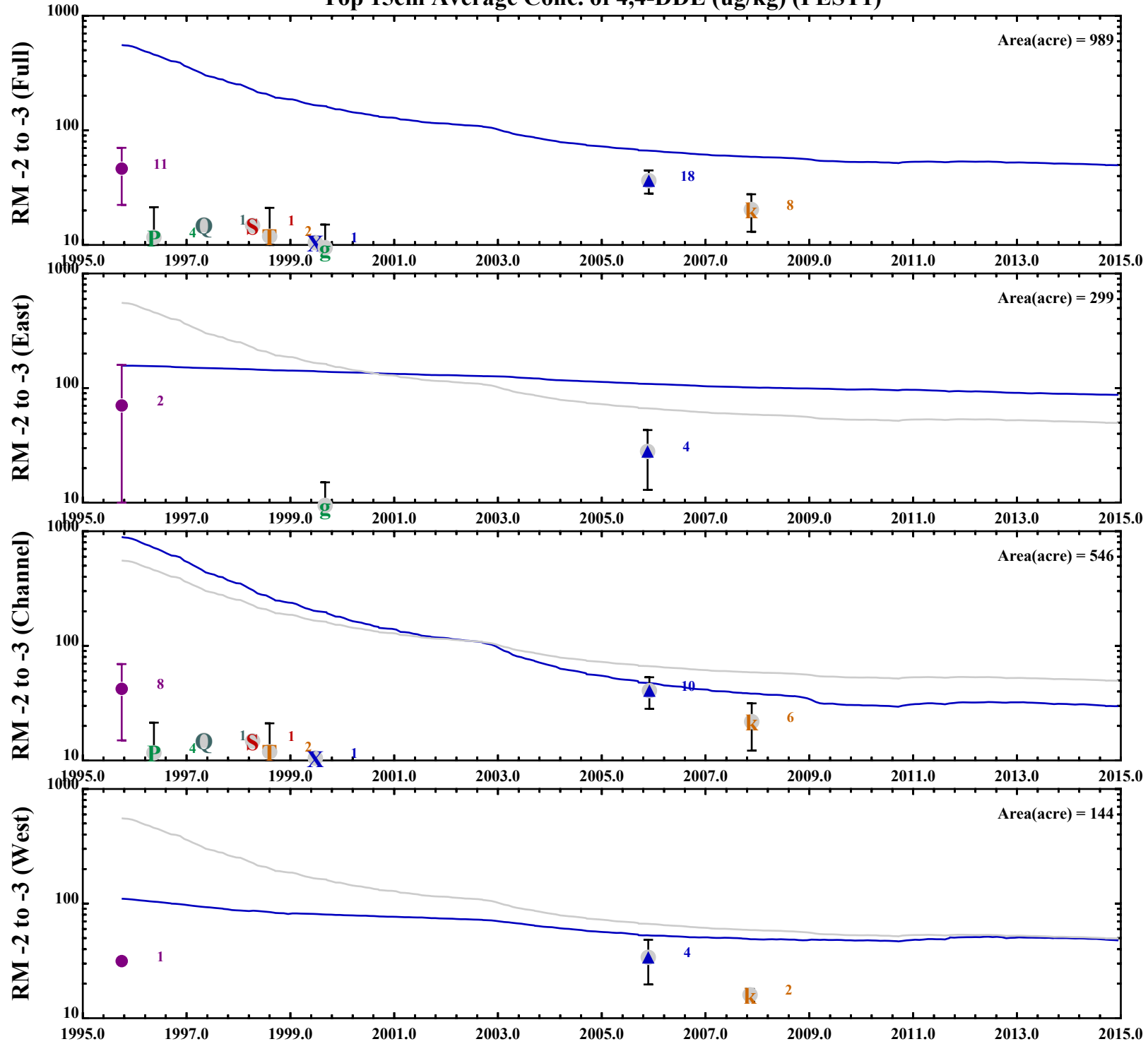


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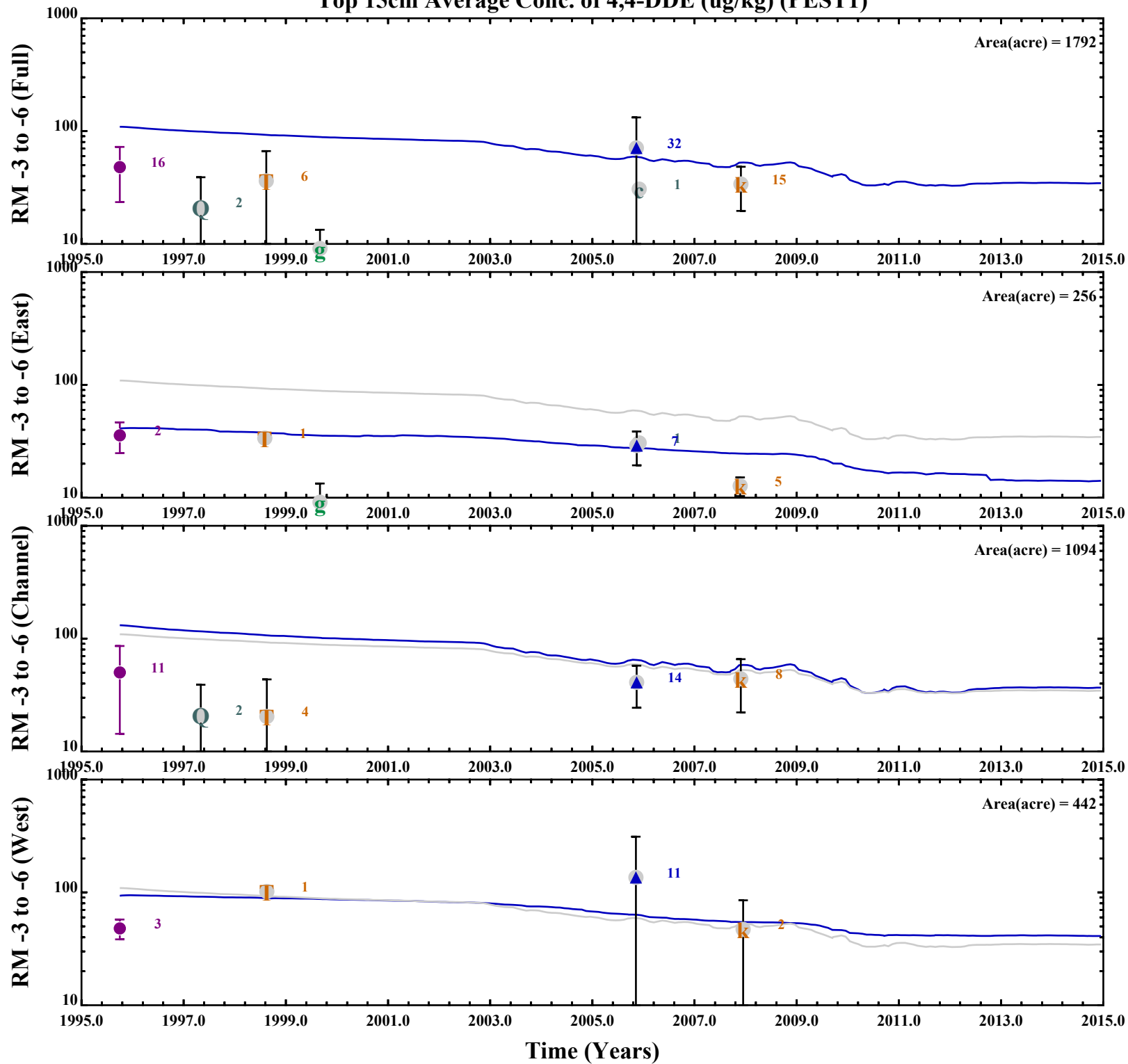


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Time (Years)

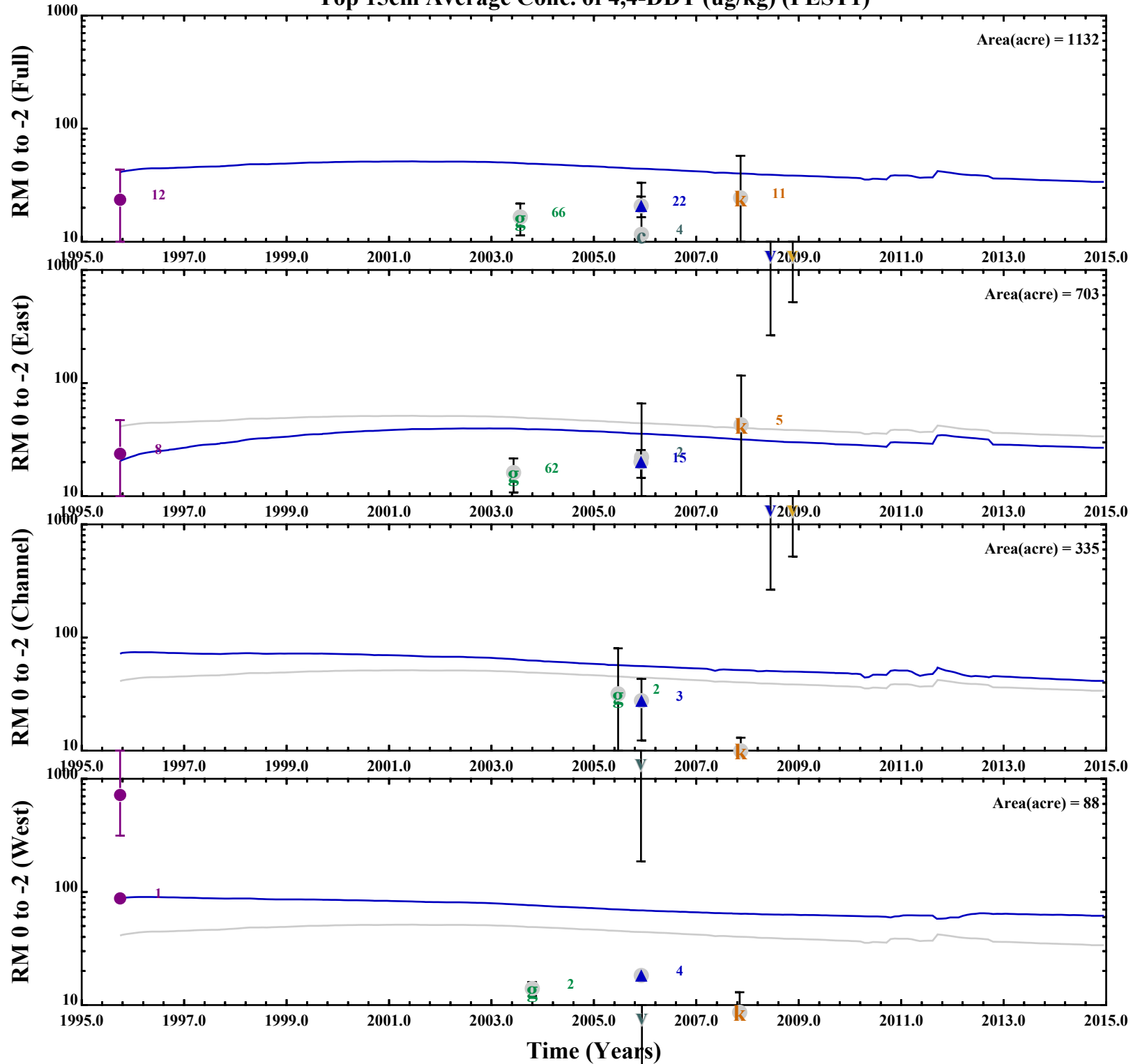
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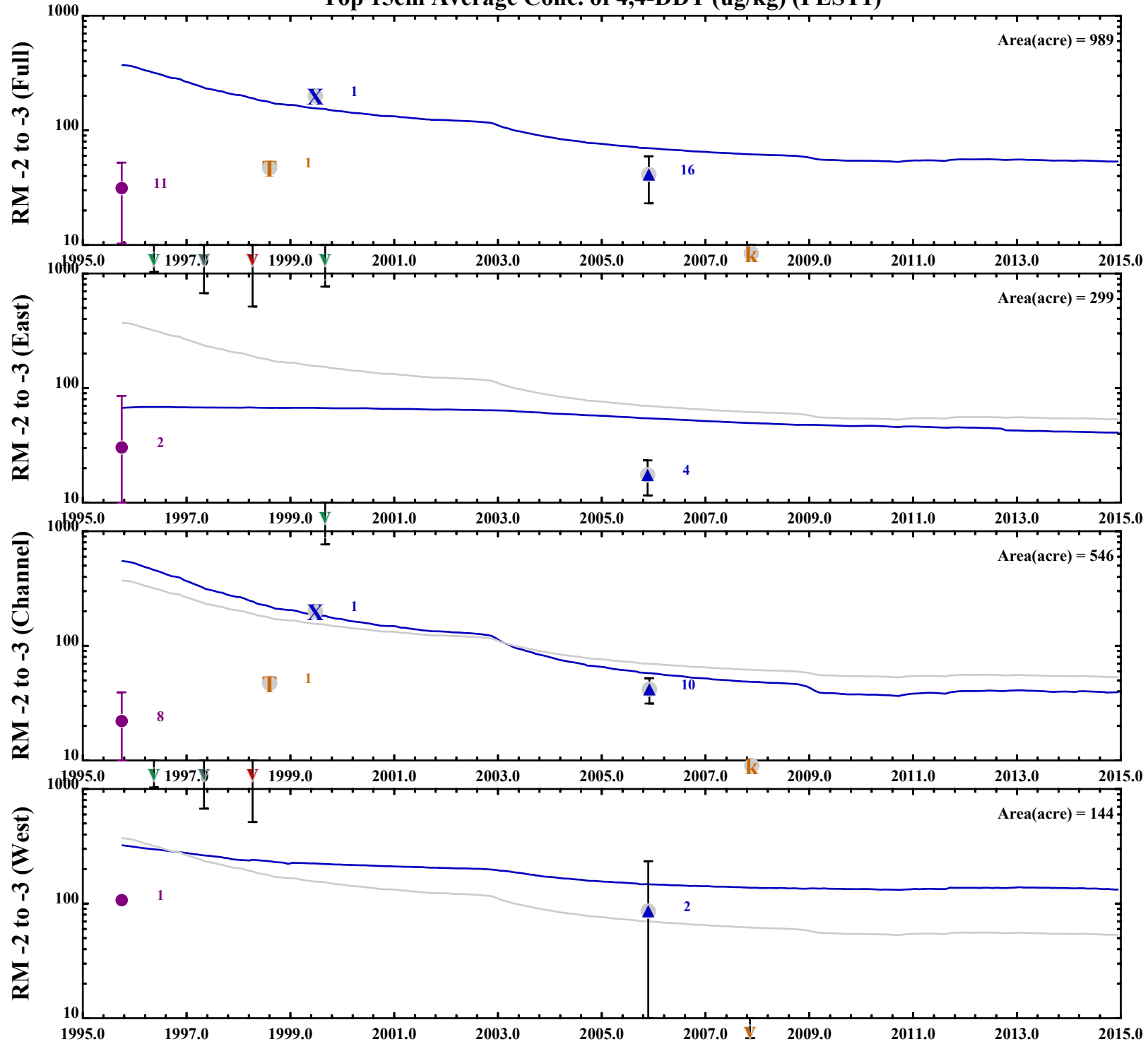
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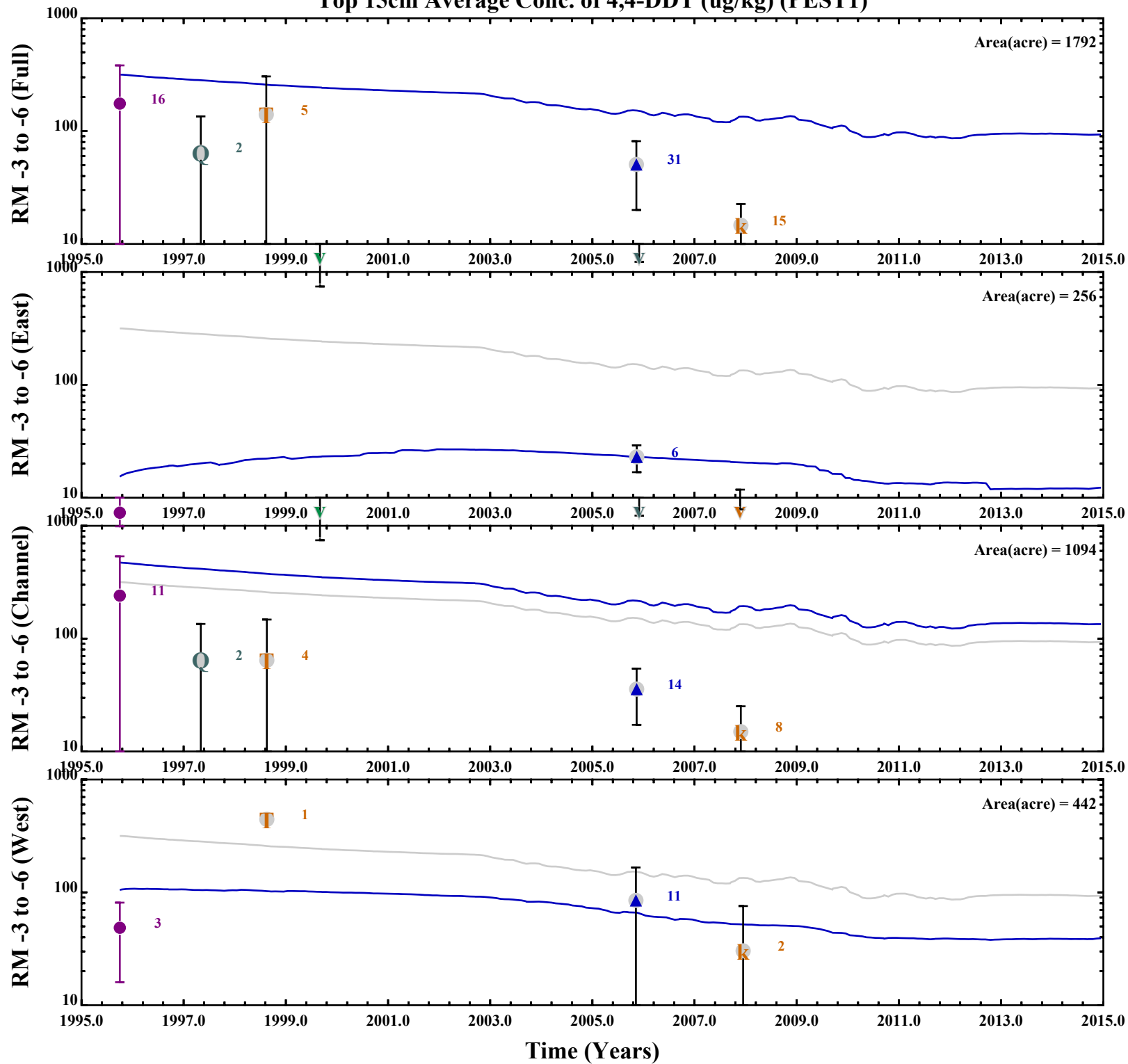
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- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- 1995 USACE Minish Park Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

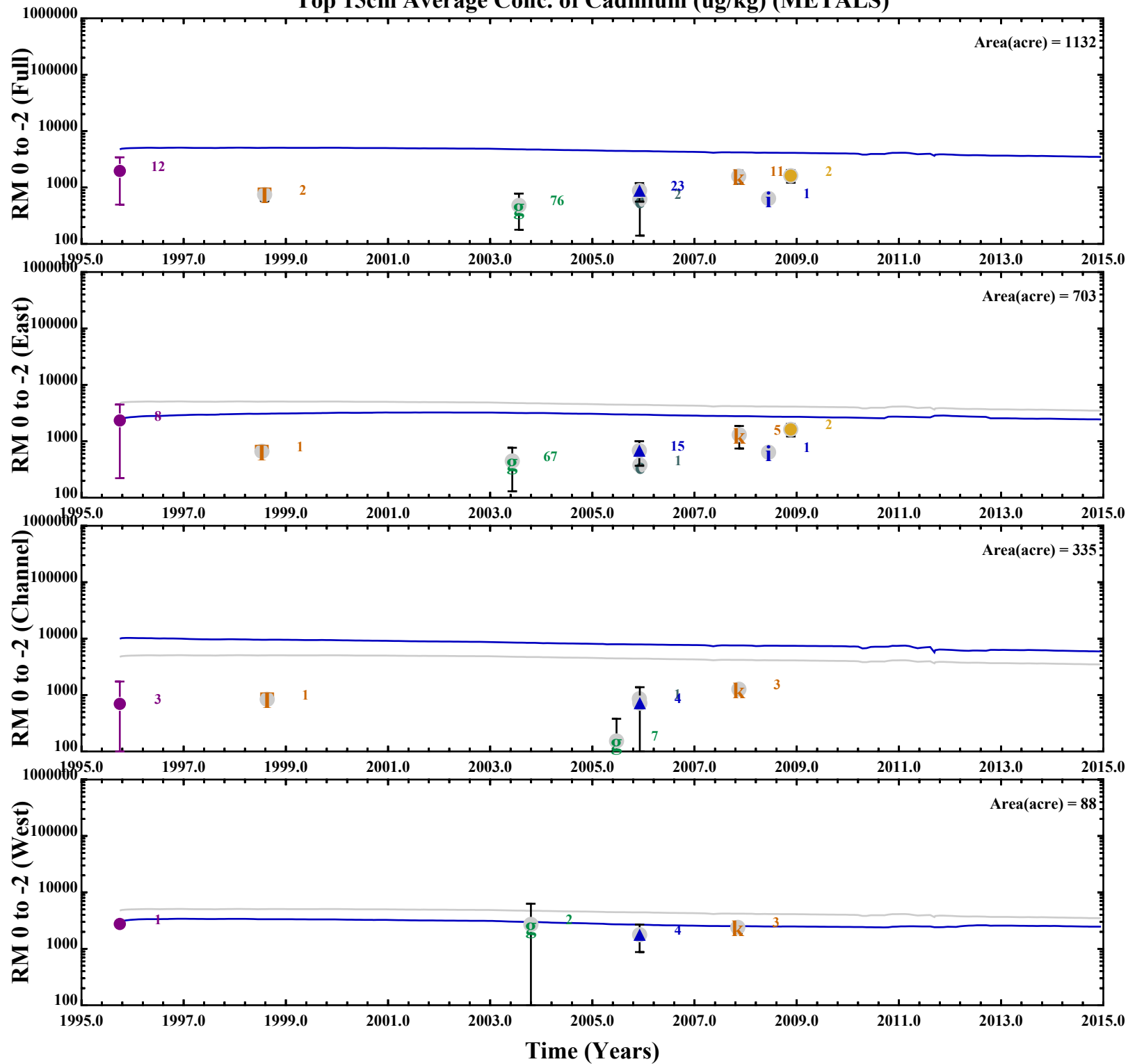
# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)

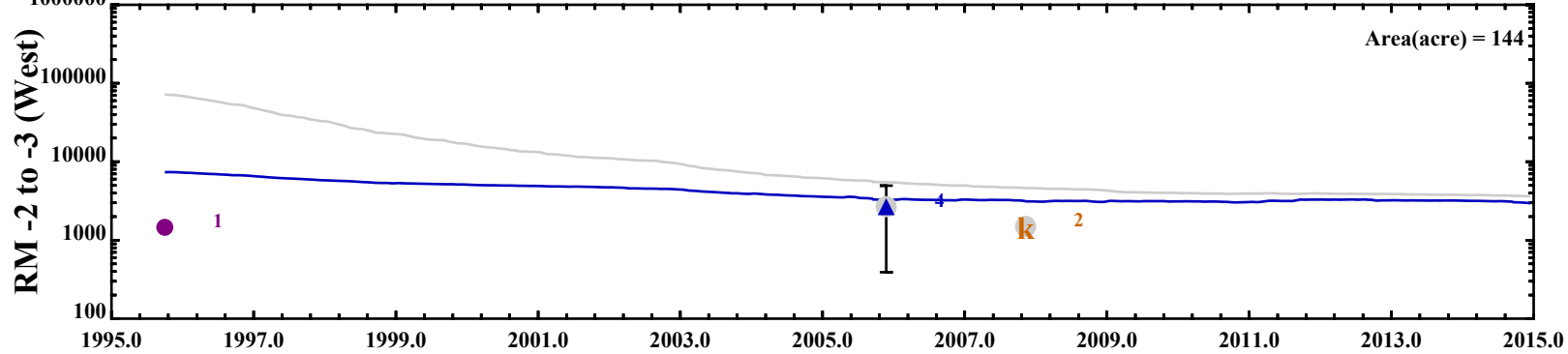
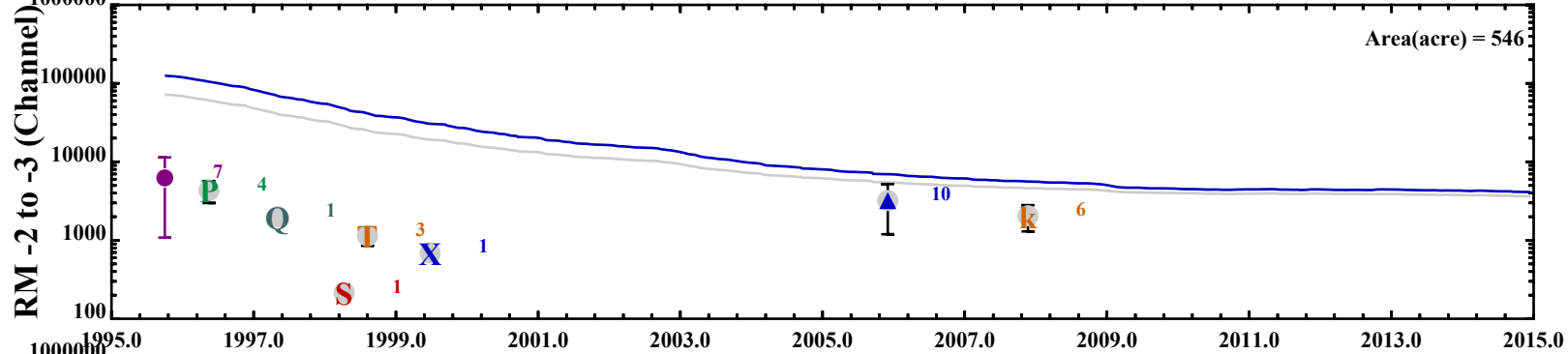
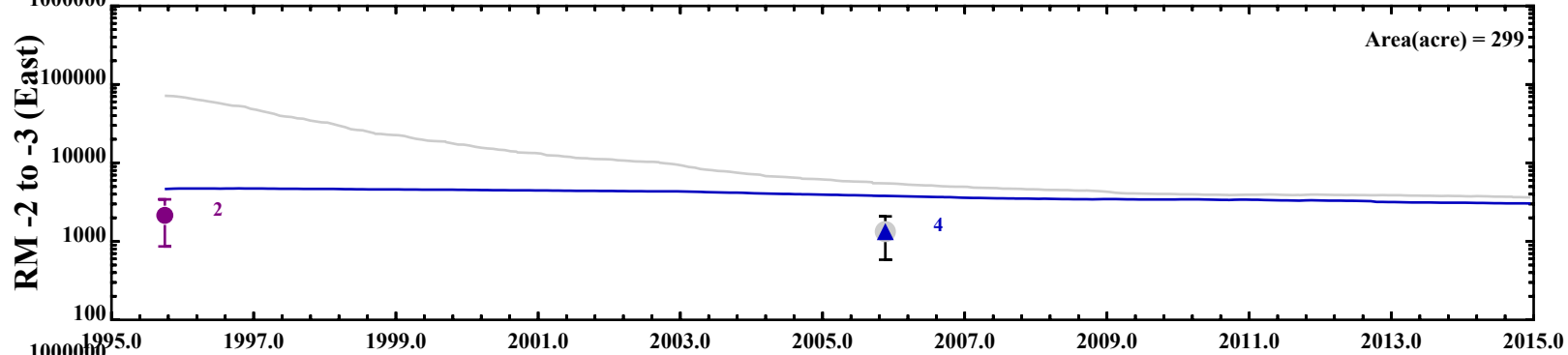
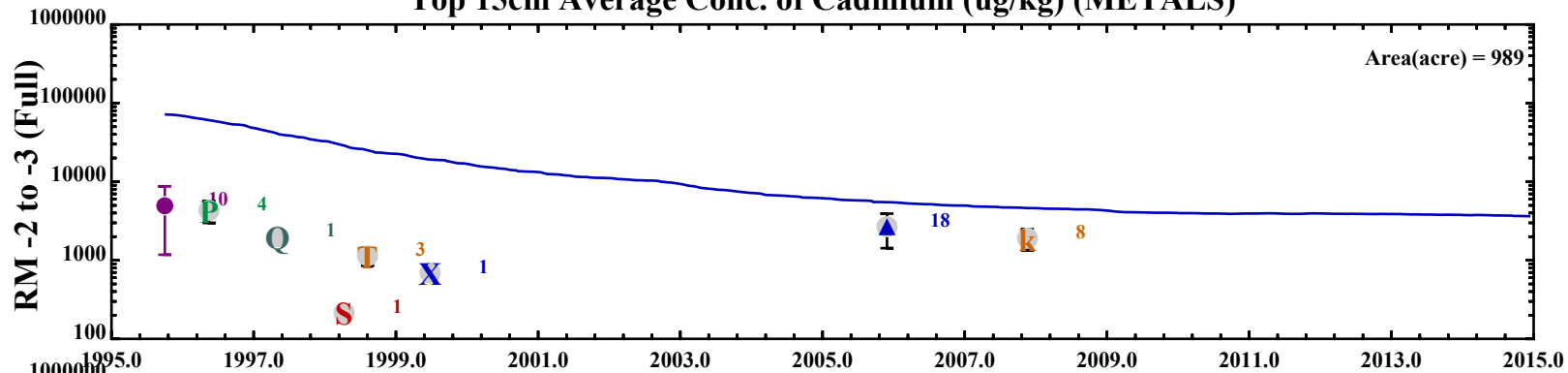


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)

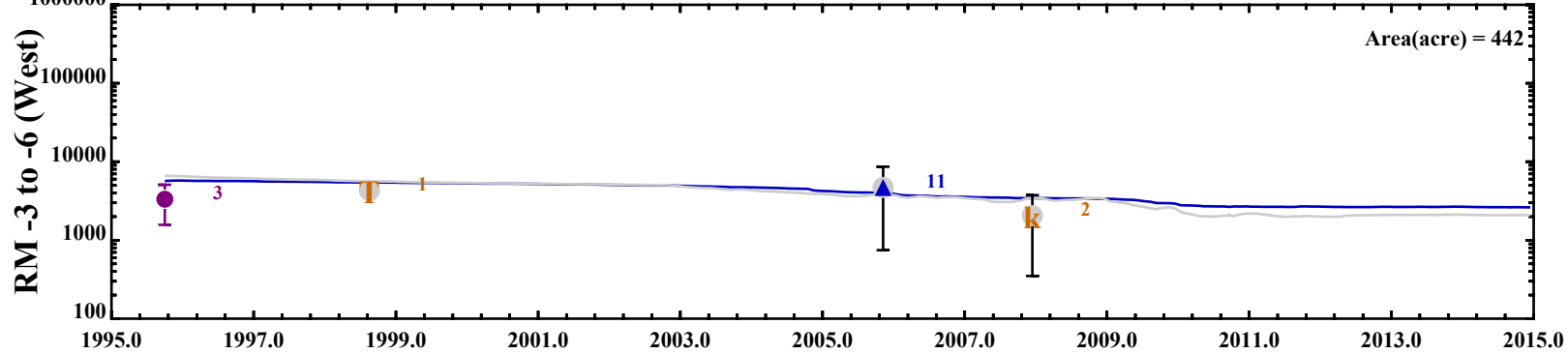
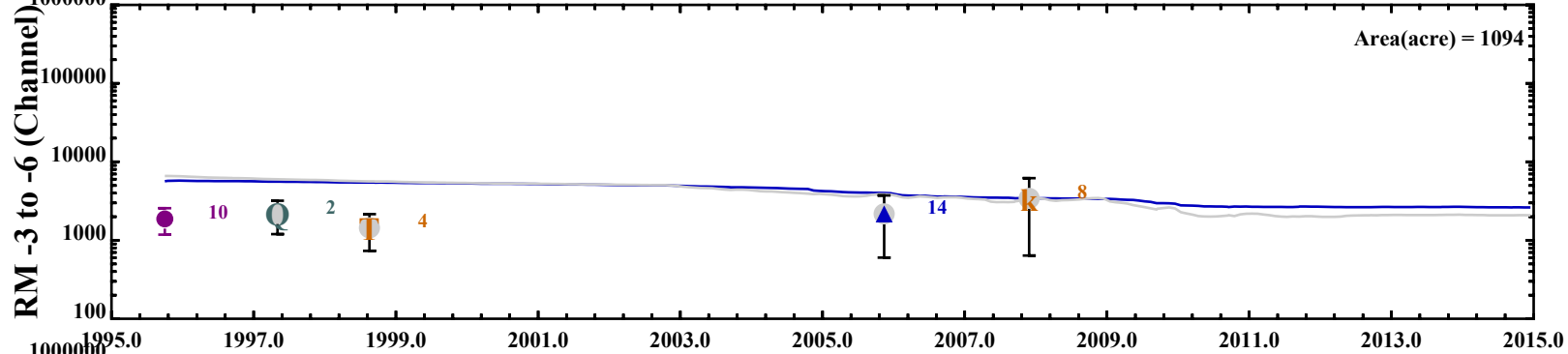
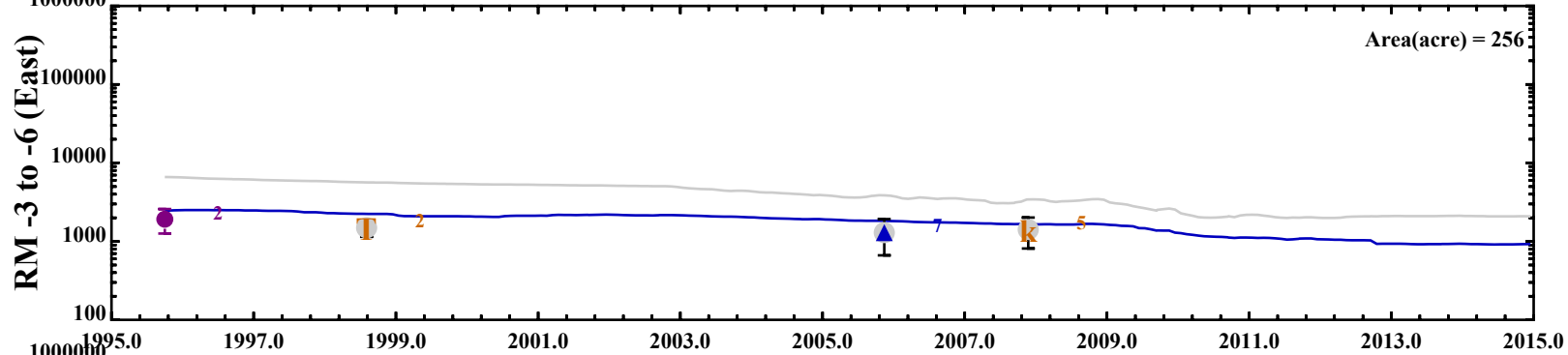
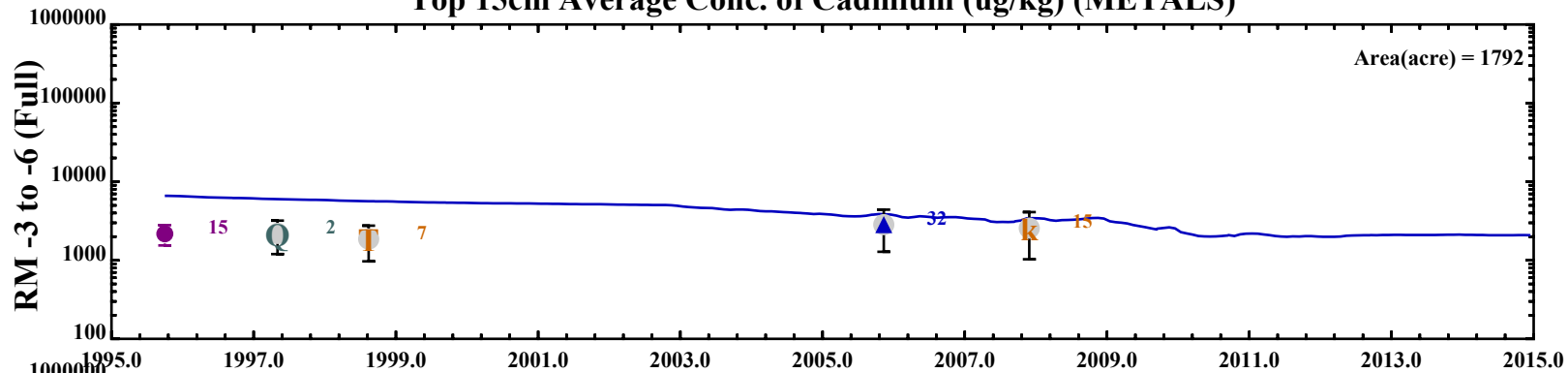


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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)

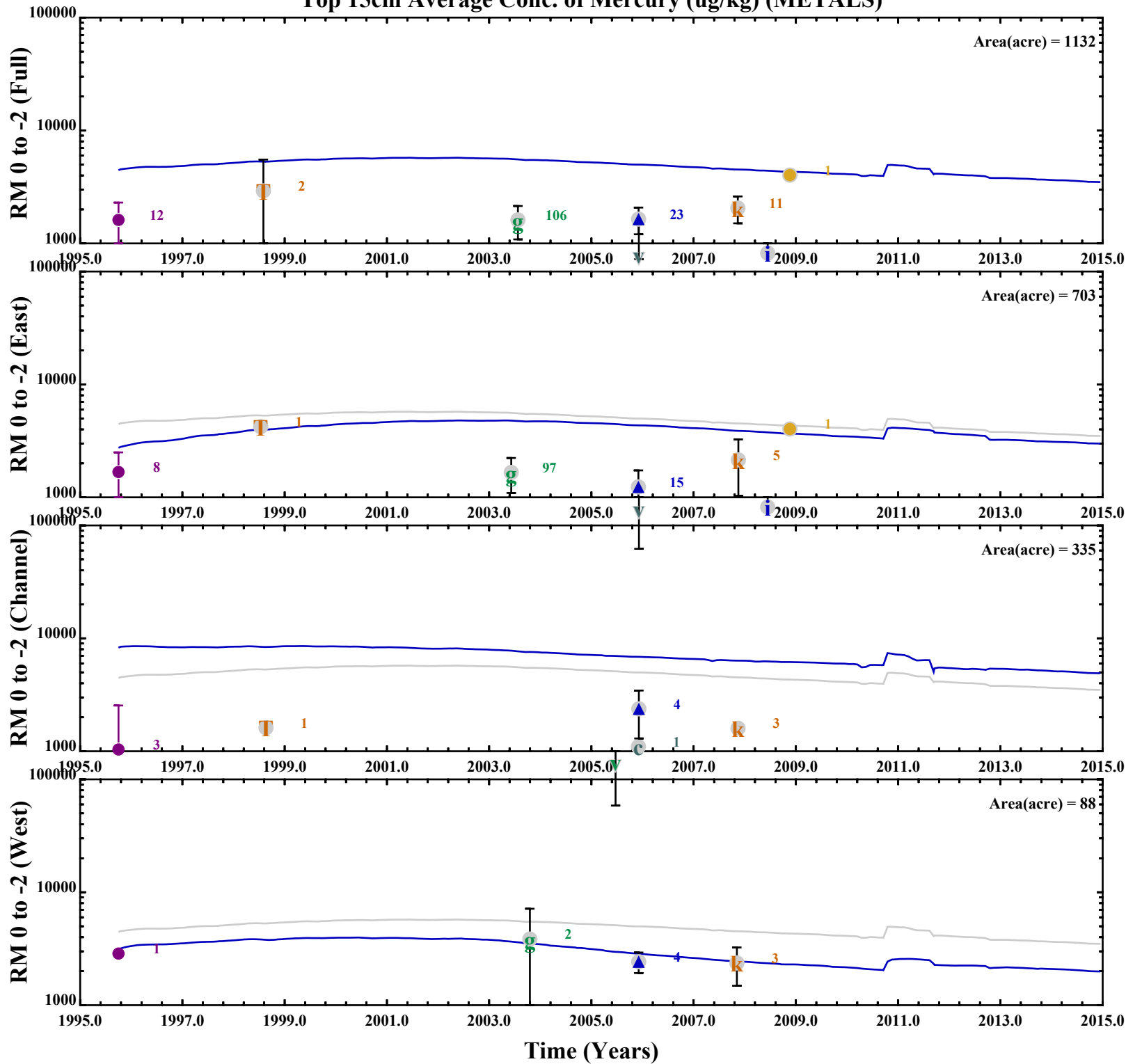


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

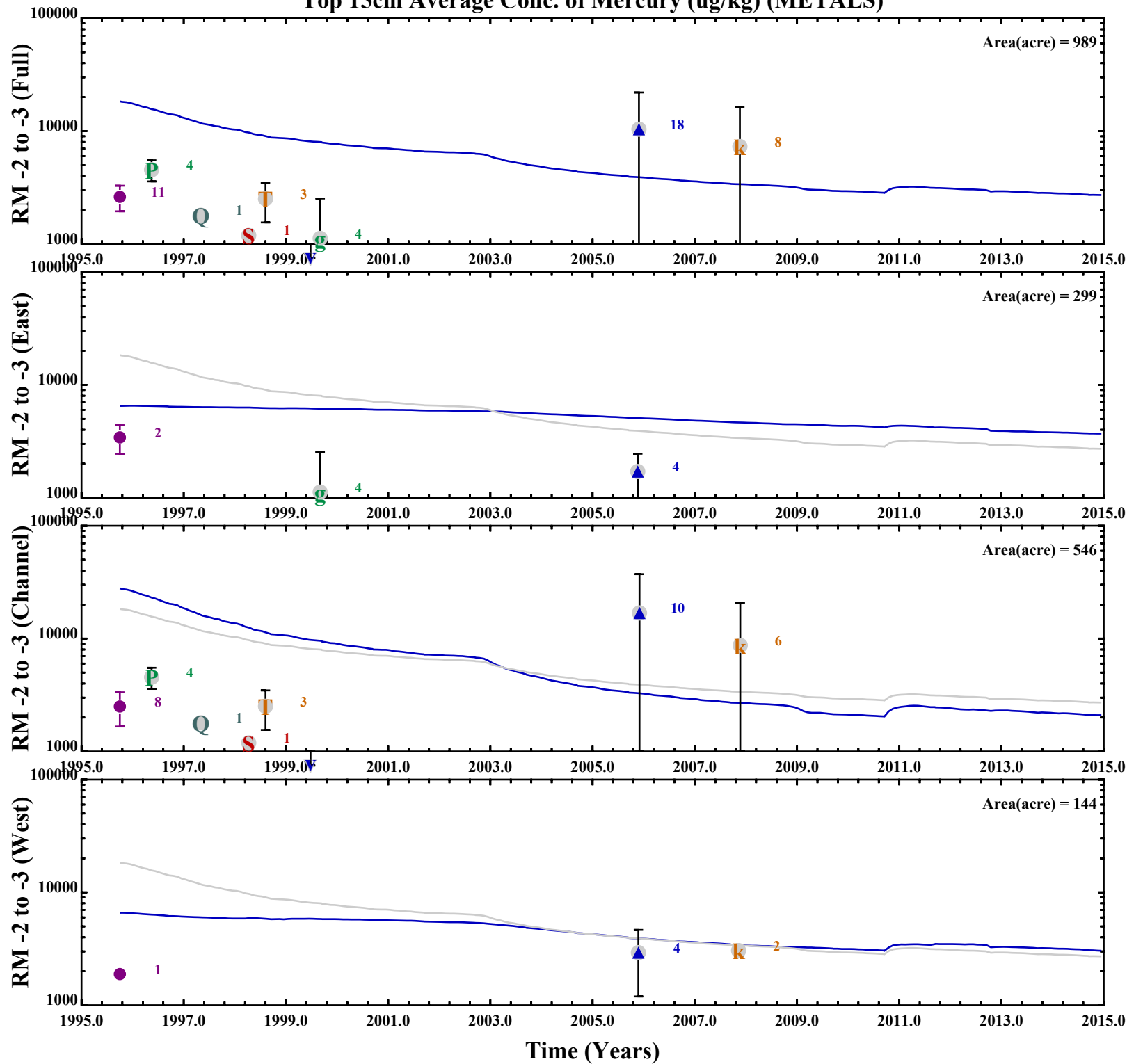
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-93 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
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- 2012 CPG Low Res Coring Supplemental
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

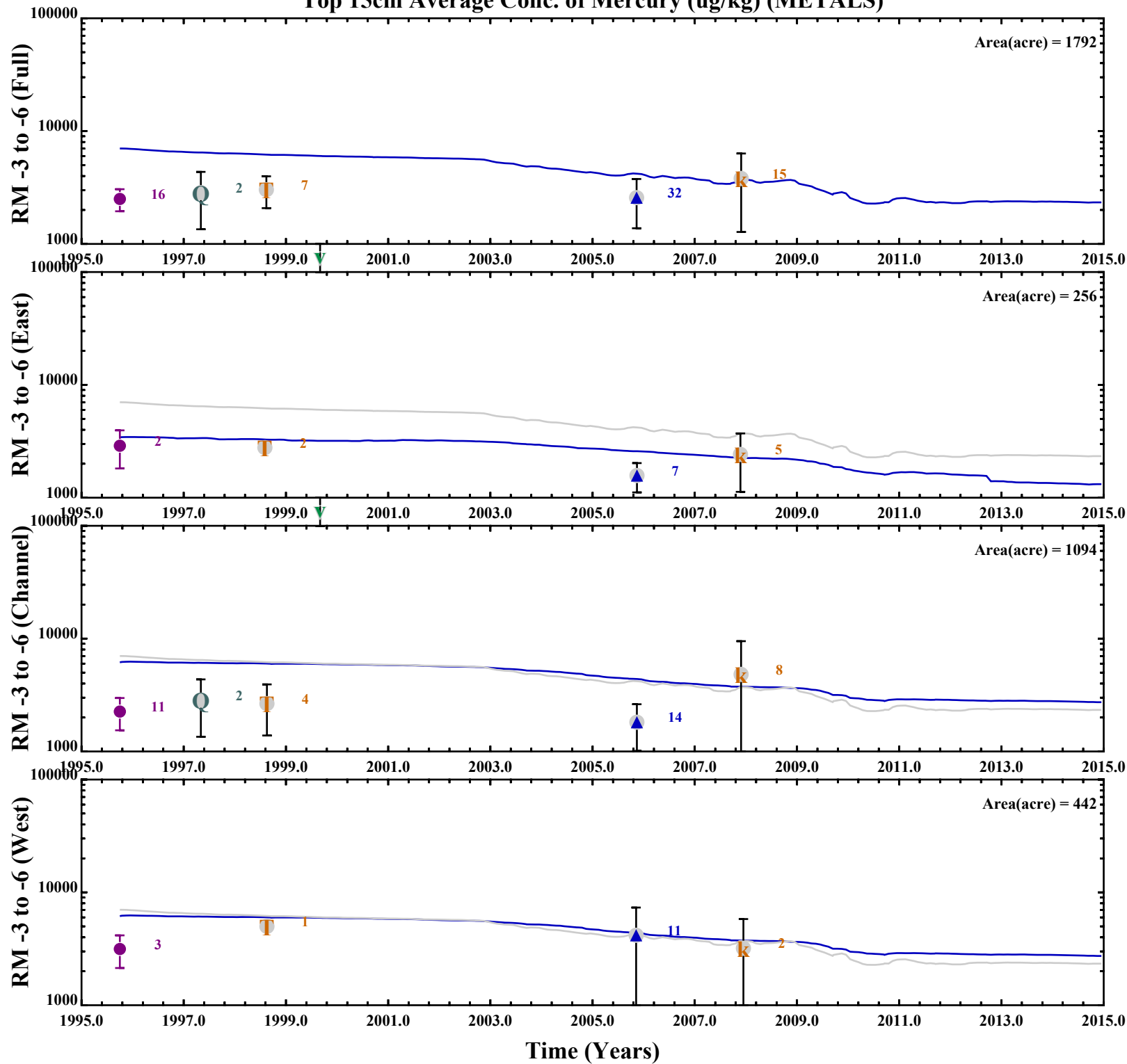
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

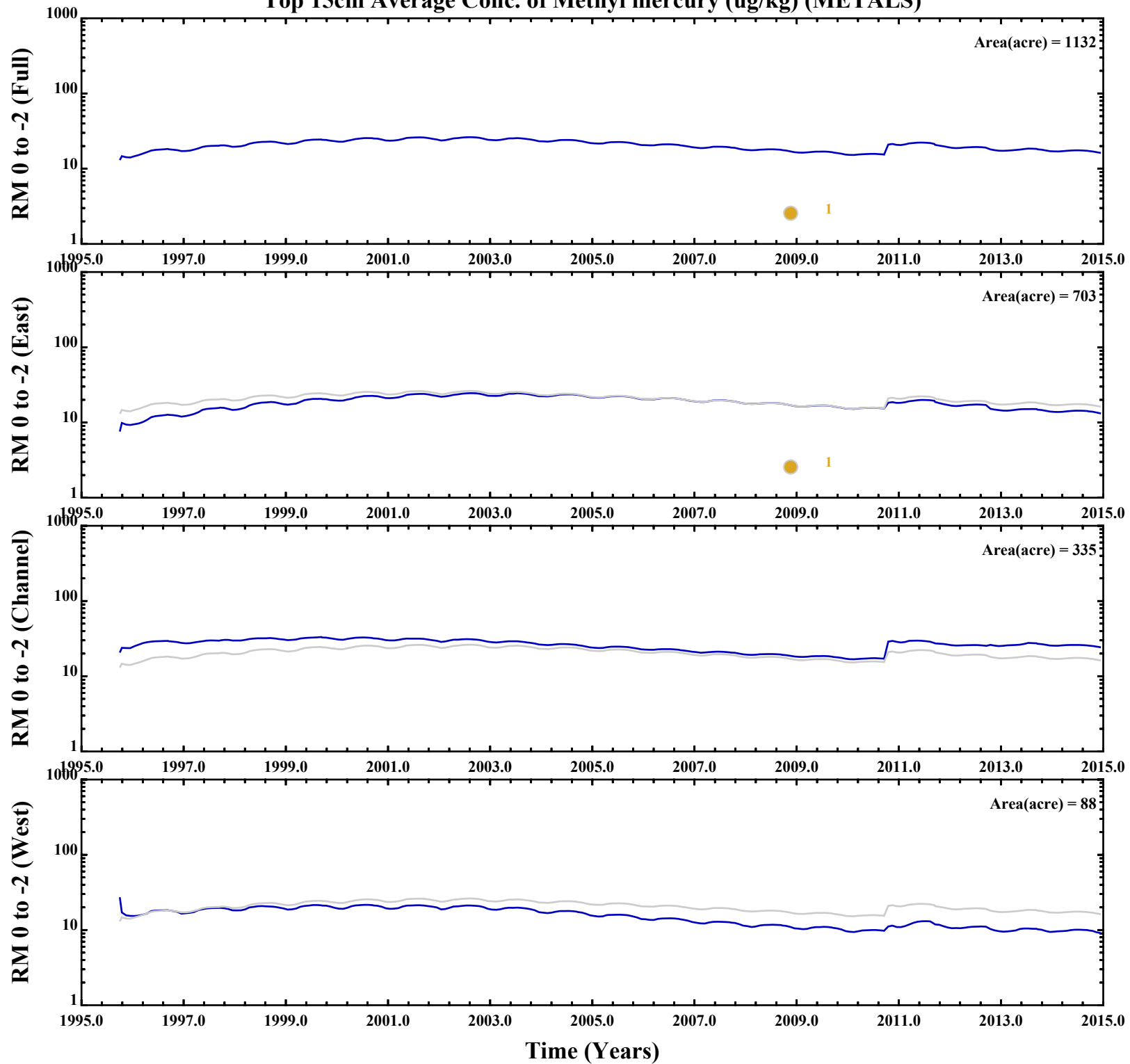
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- o 2009 USEPA-MPI Benthic Oversight
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

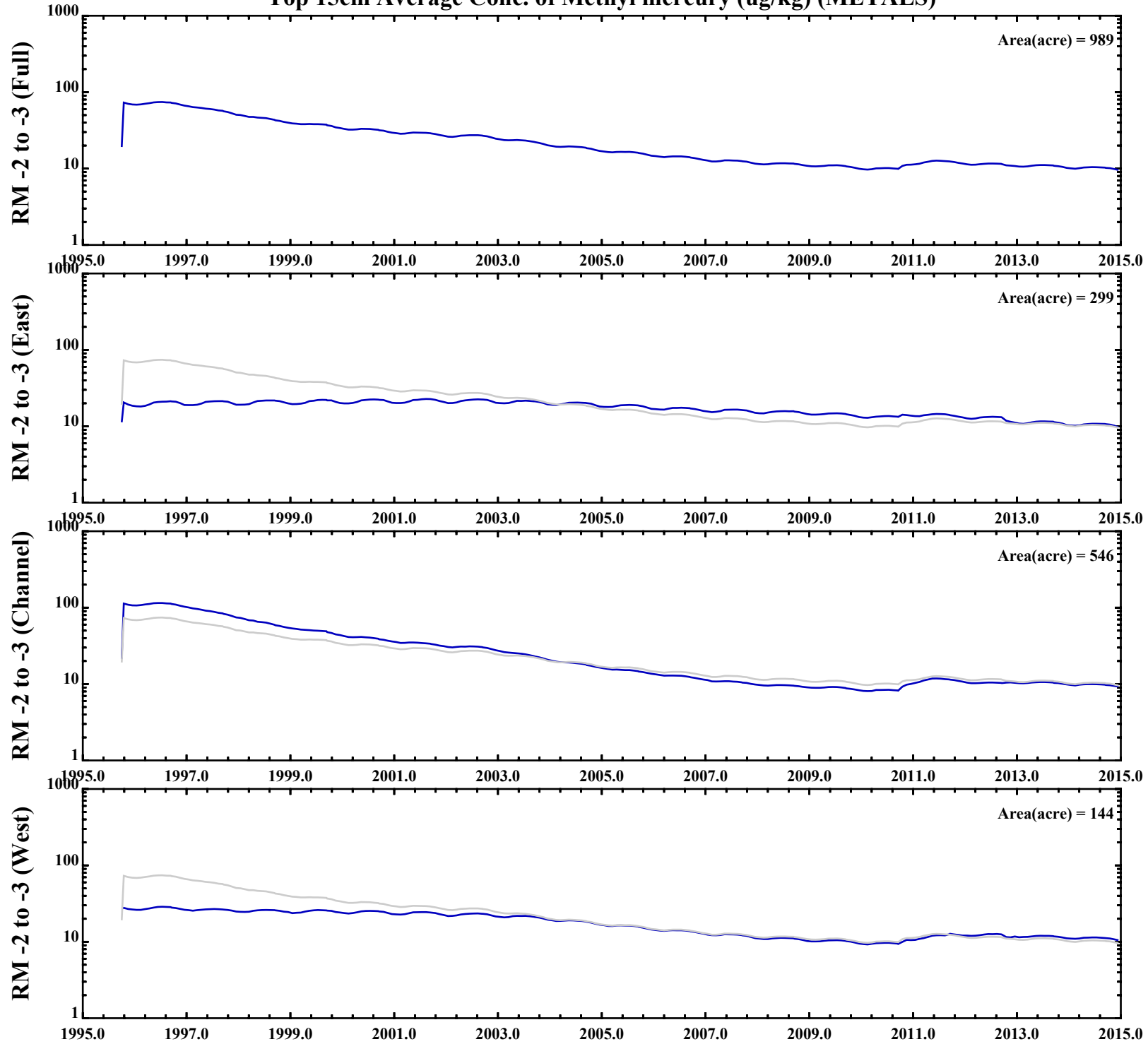
# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

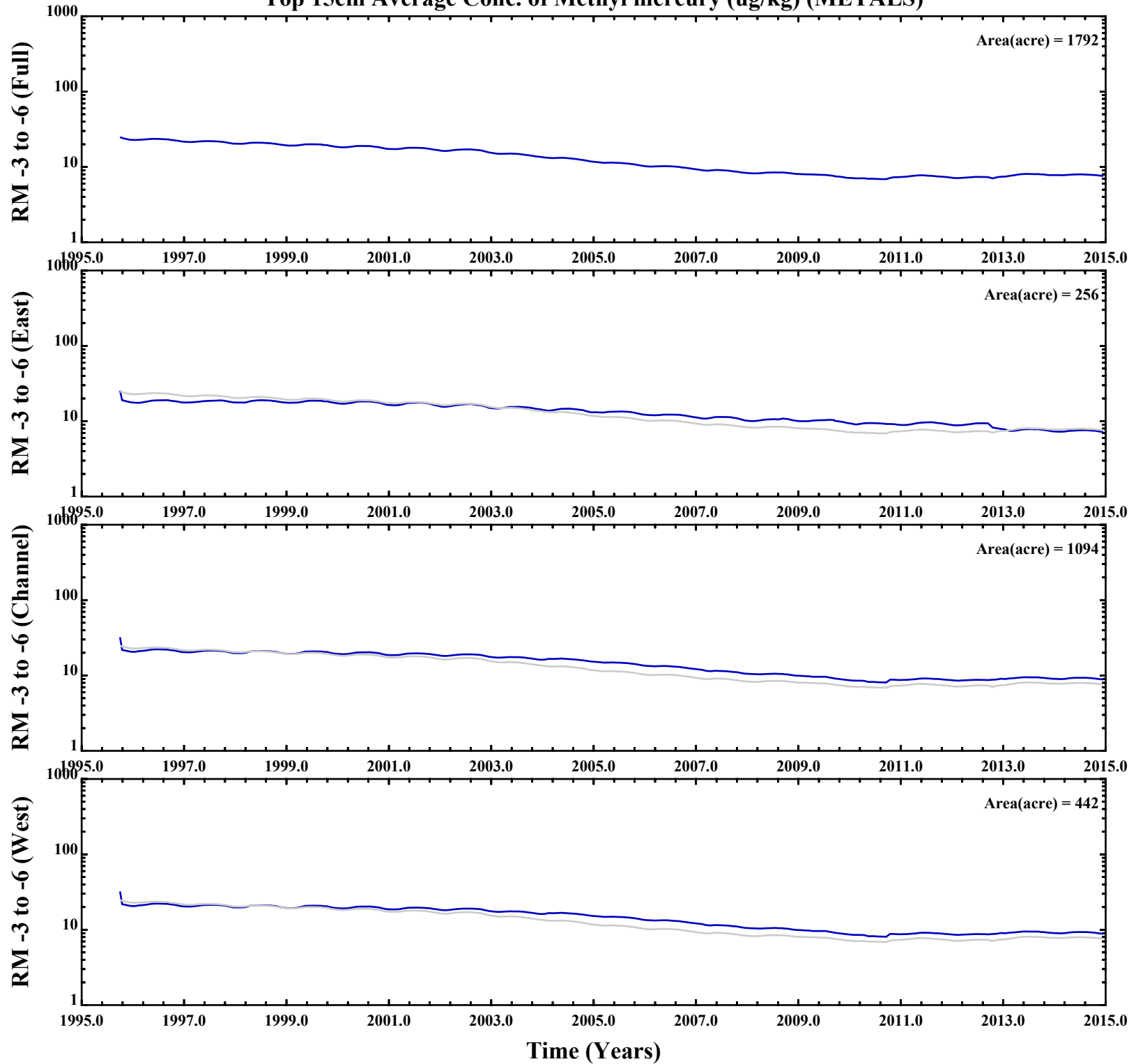
# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
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- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
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- O 1995 USACE Minish Park Investigation
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



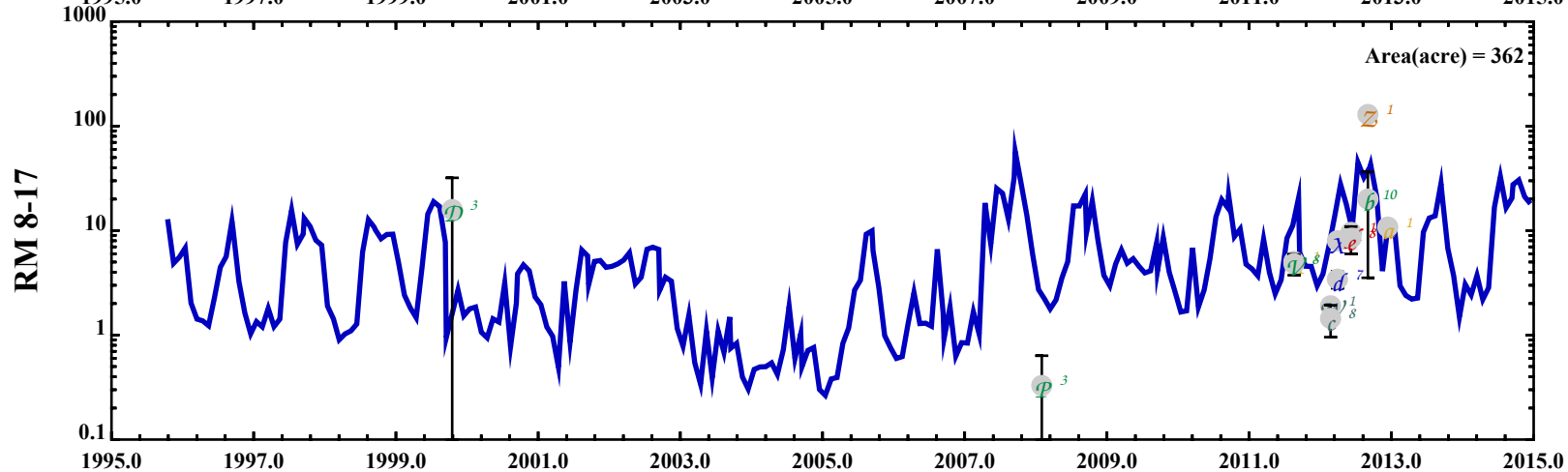
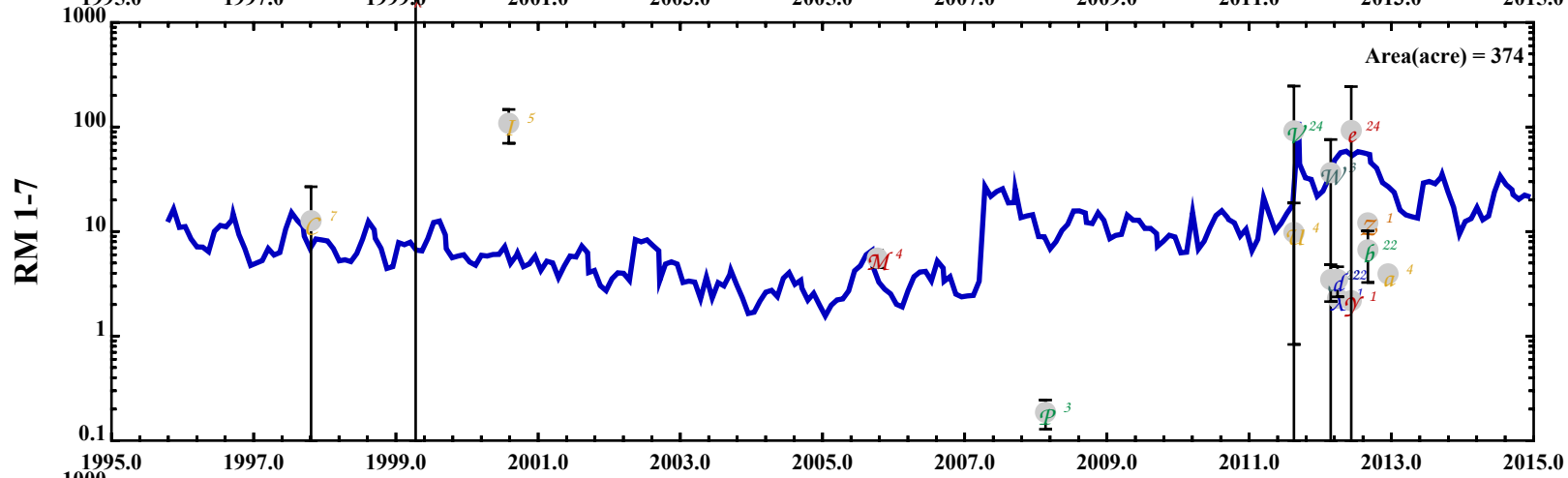
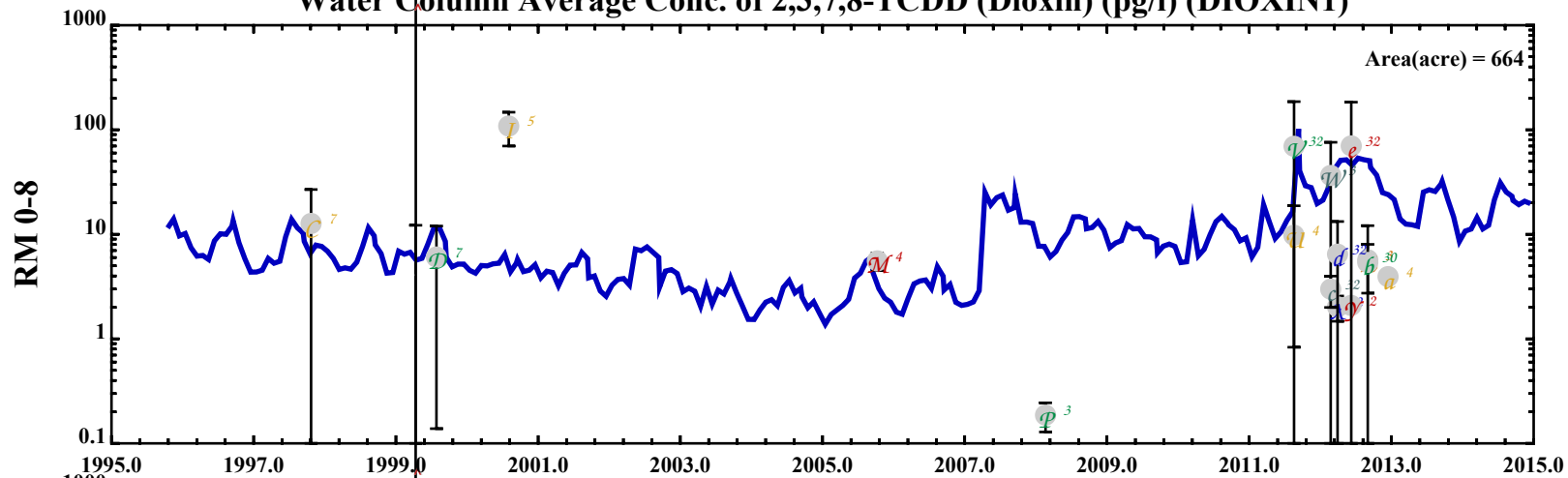
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— No Action Gradient IC, Reach Scale Up  
 — No Action Gradient IC, Reach Scale Up (Full Reach)



**Attachment C-3**  
**LPR Water Column Reach Average Time**  
**Series Calibration**

# Water Column Average Conc. of 2,3,7,8-TCDD (Dioxin) (pg/l) (DIOXIN1)



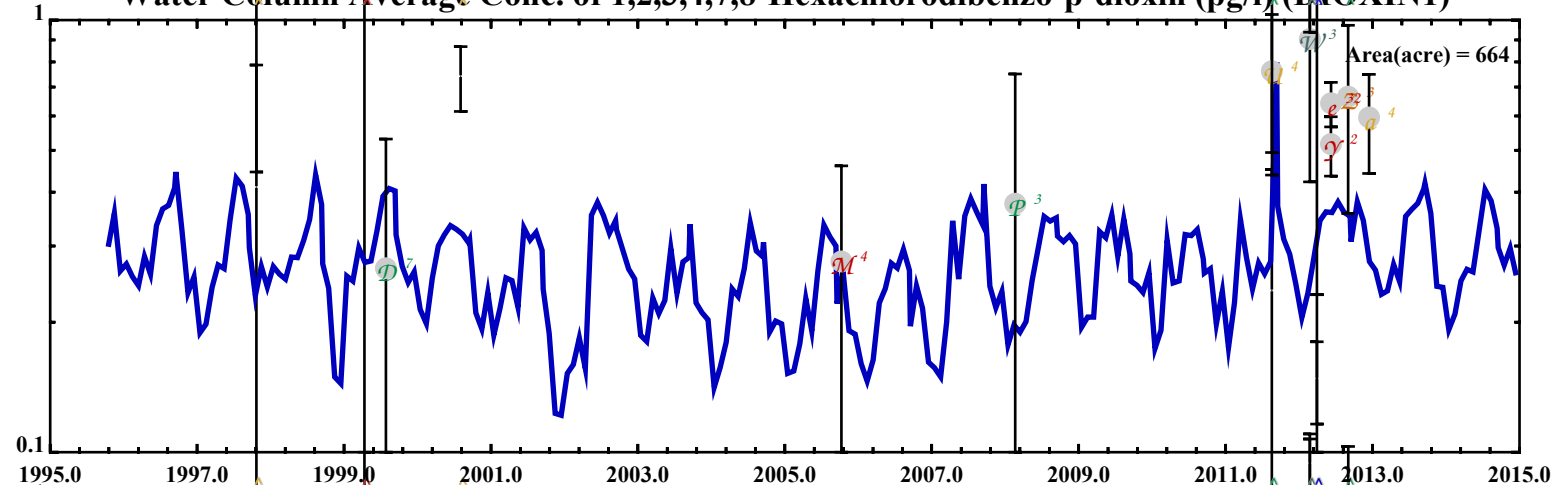
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

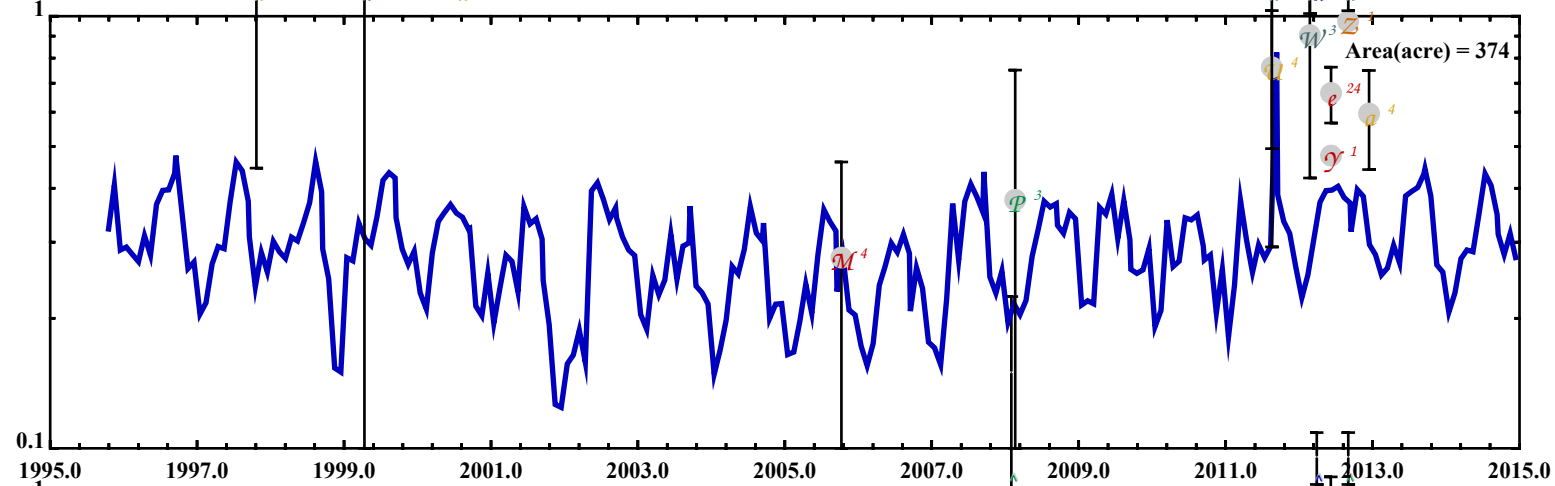
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

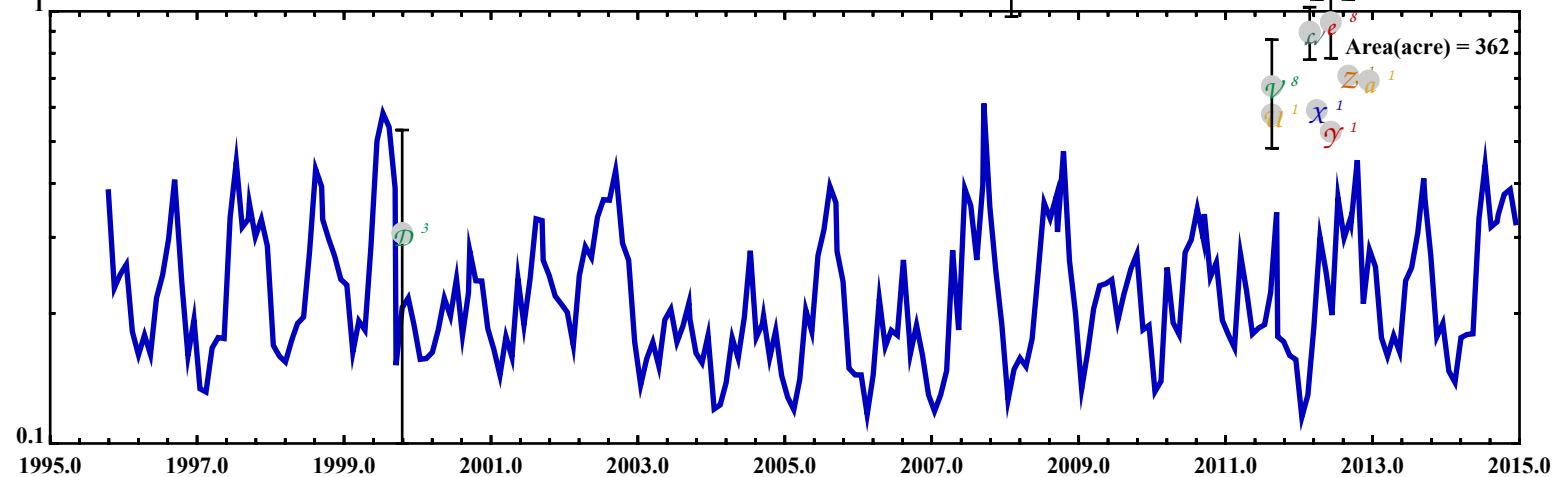
RM 0-8



RM 1-7



RM 8-17



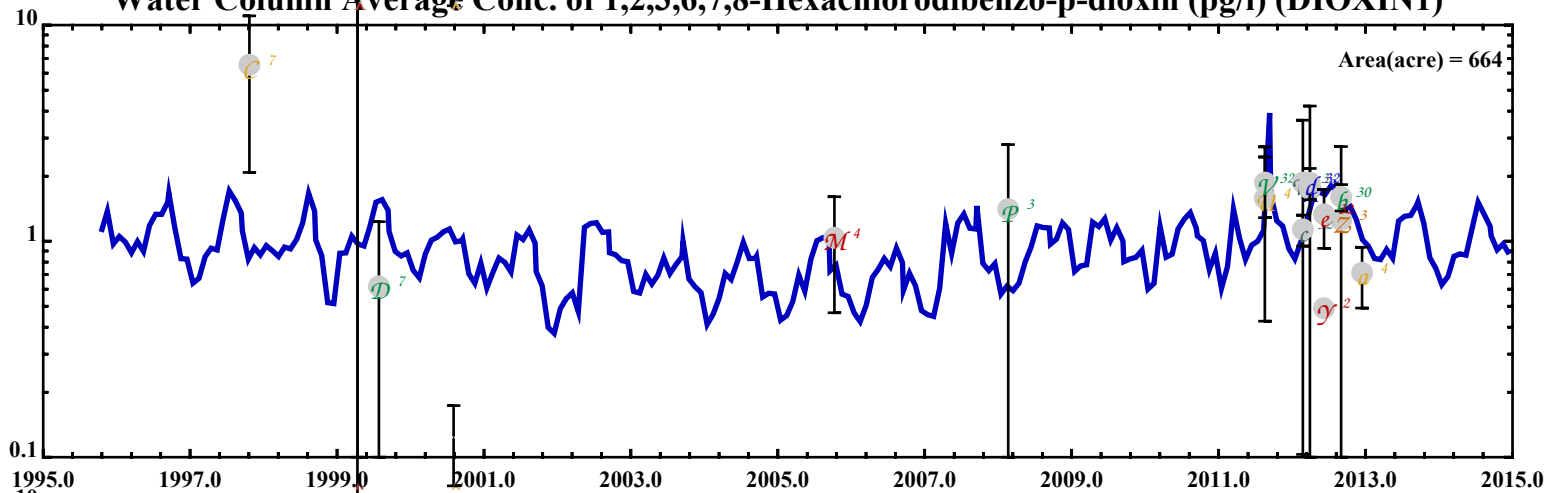
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 USEPA LBG-CDM PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

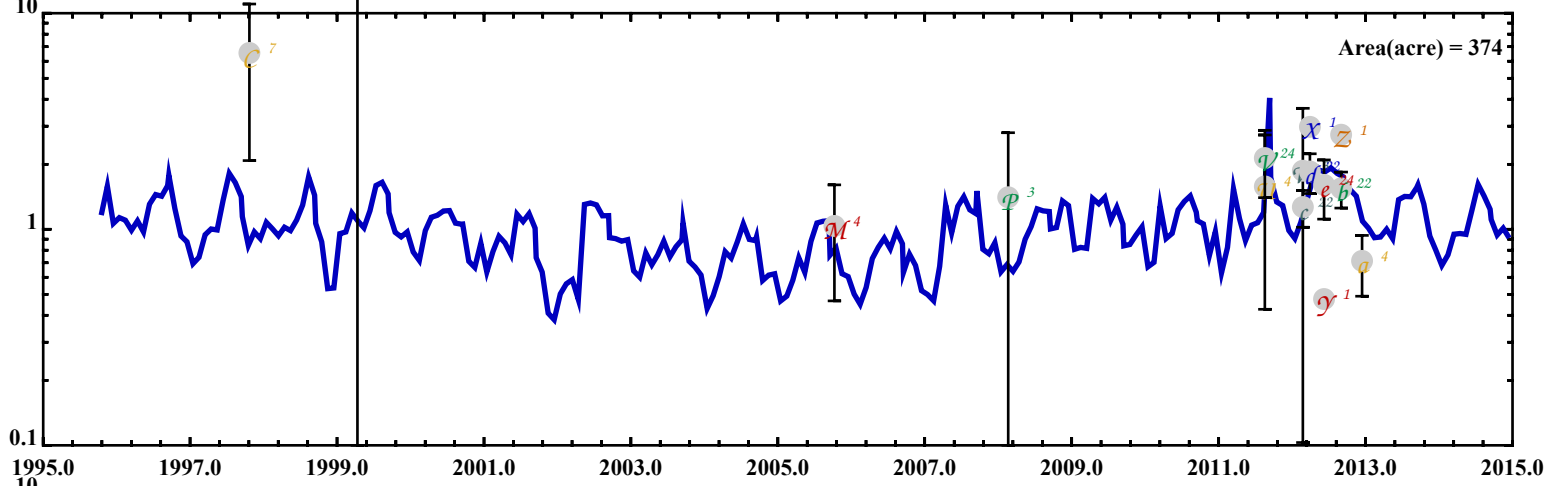
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

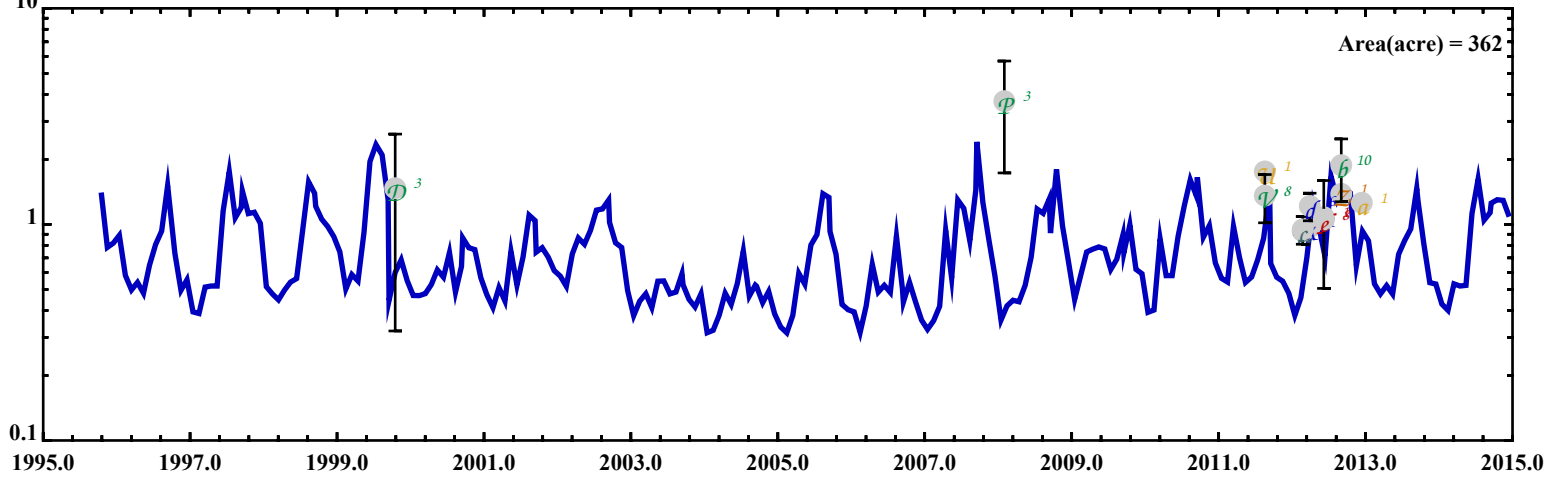
RM 0-8



RM 1-7



RM 8-17



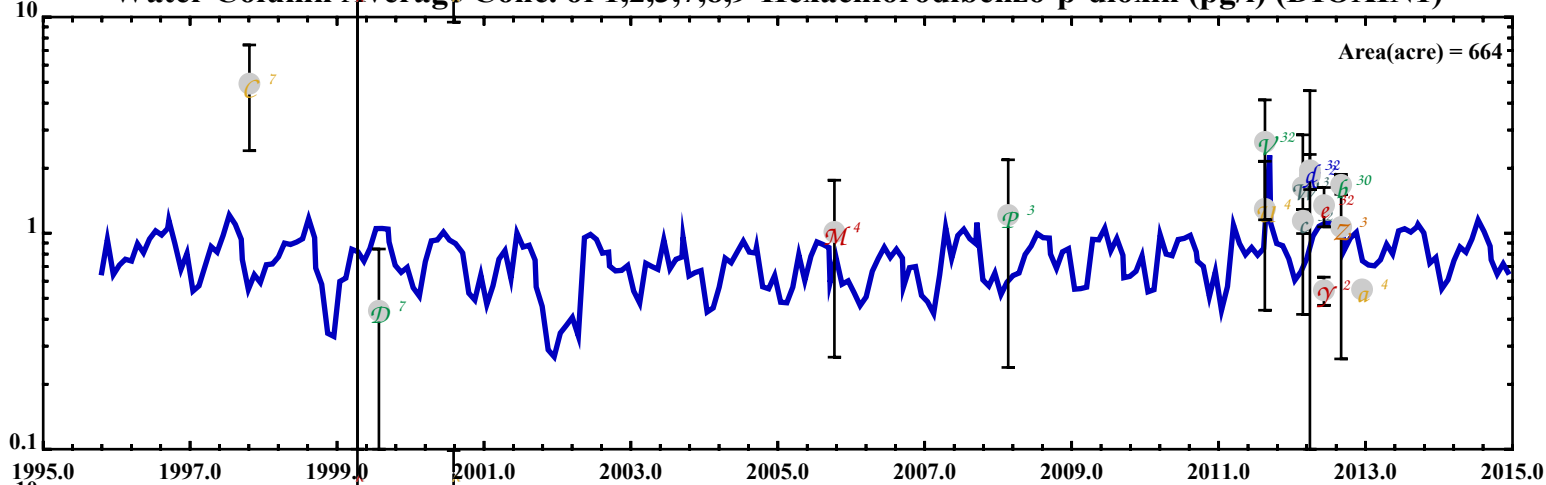
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

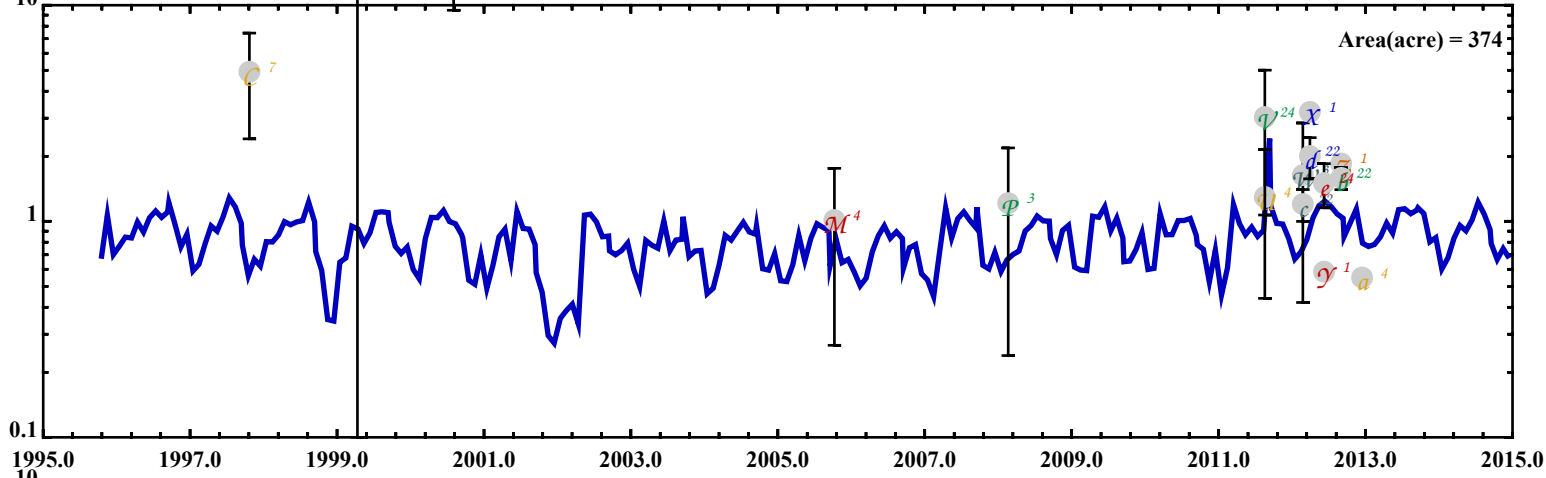
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

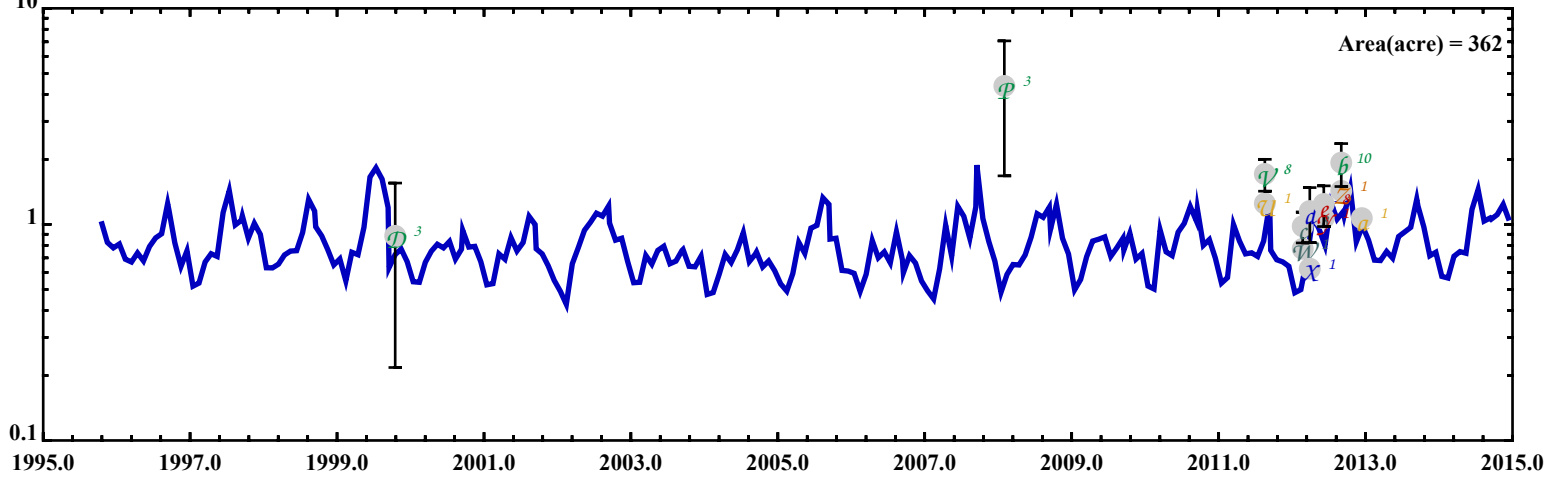
RM 0-8



RM 1-7



RM 8-17



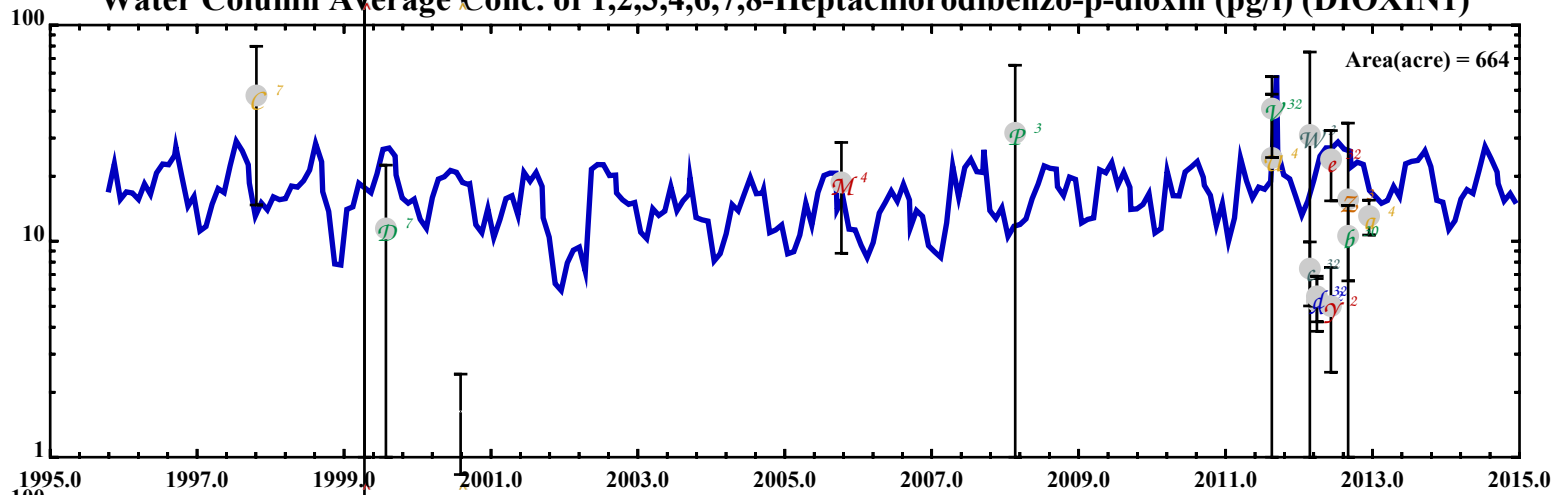
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
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- W 2012 CDM Smith CWCM Sampling - Round 2
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

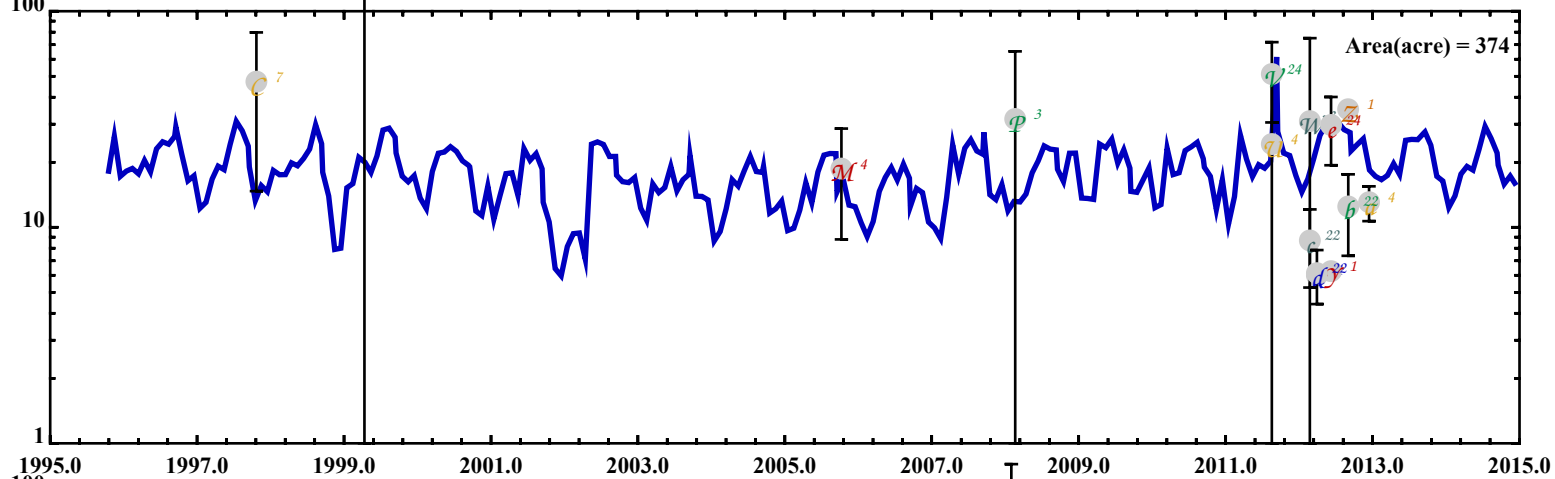
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

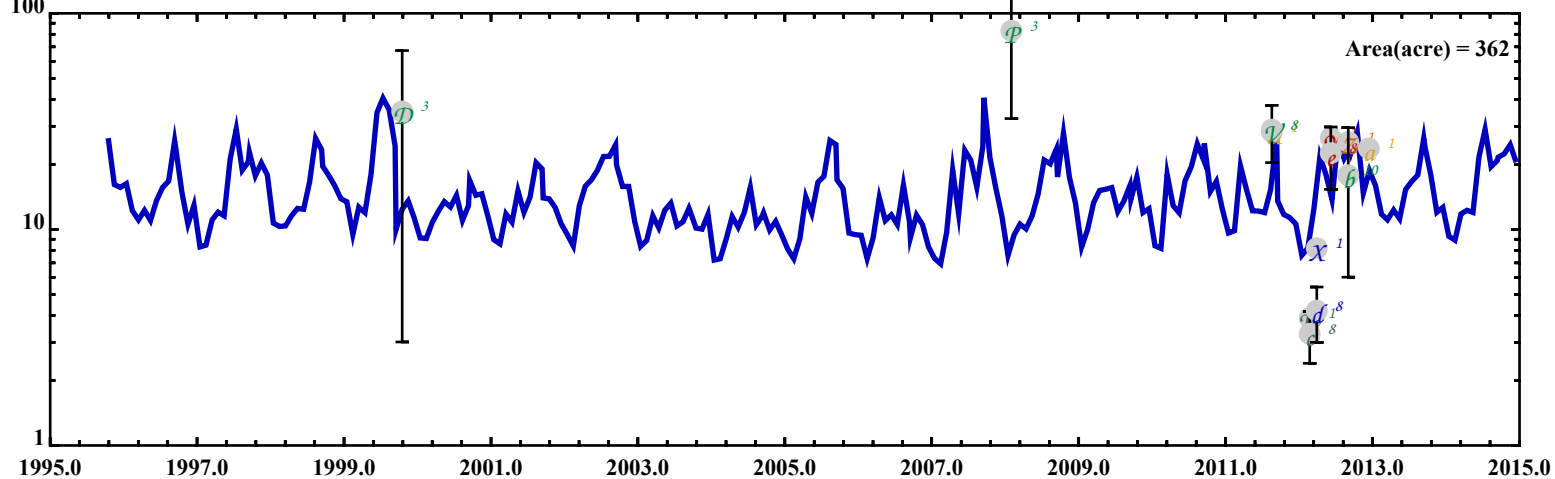
RM 0-8



RM 1-7



RM 8-17

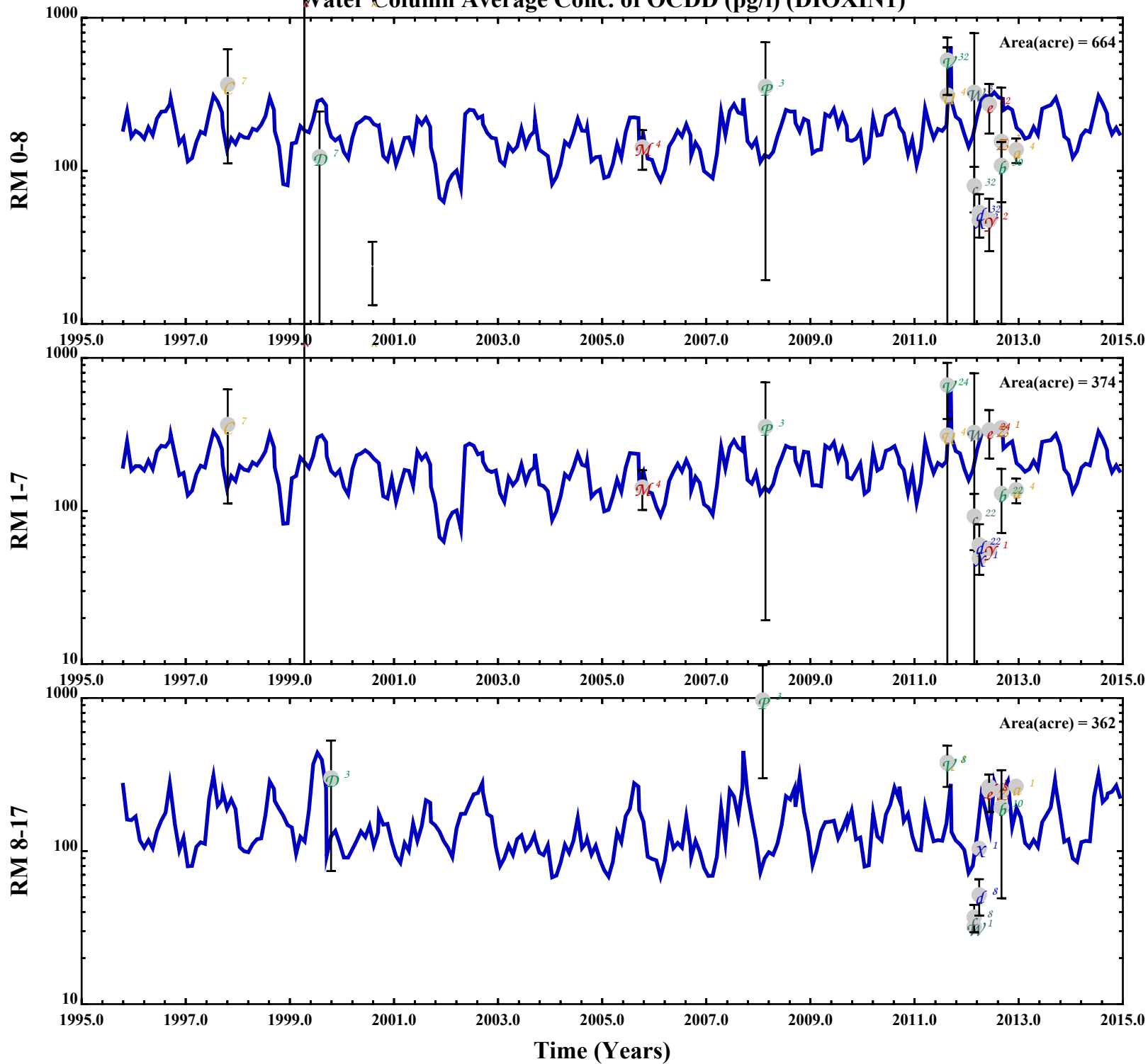


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of OCDD (pg/l) (DIOXIN1)

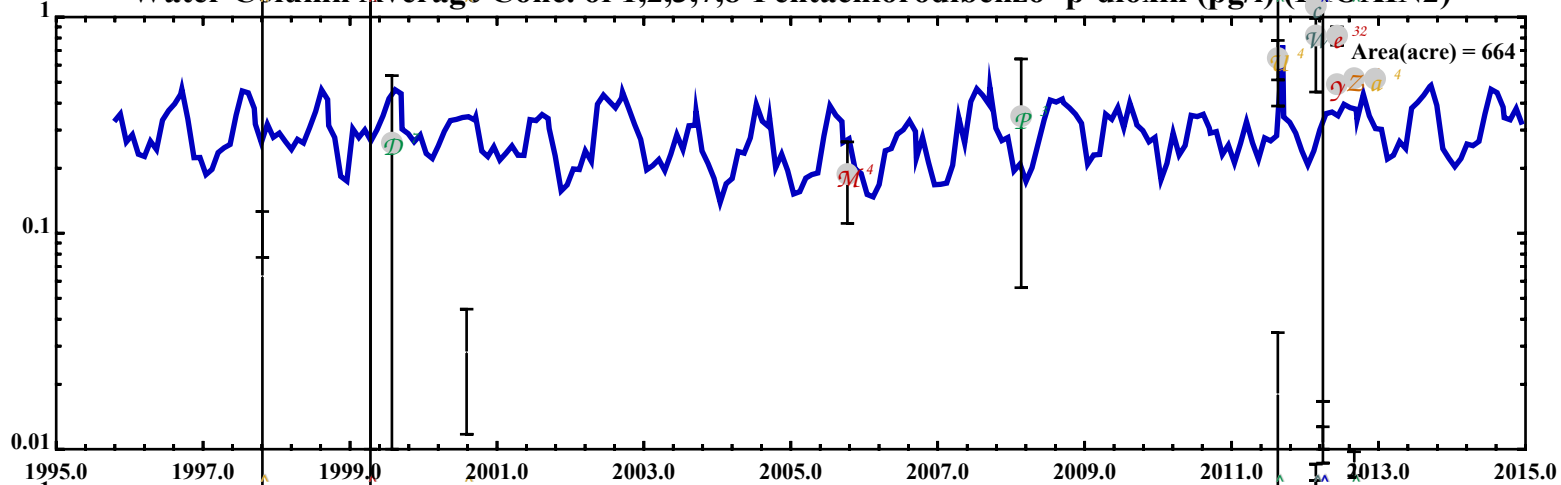


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

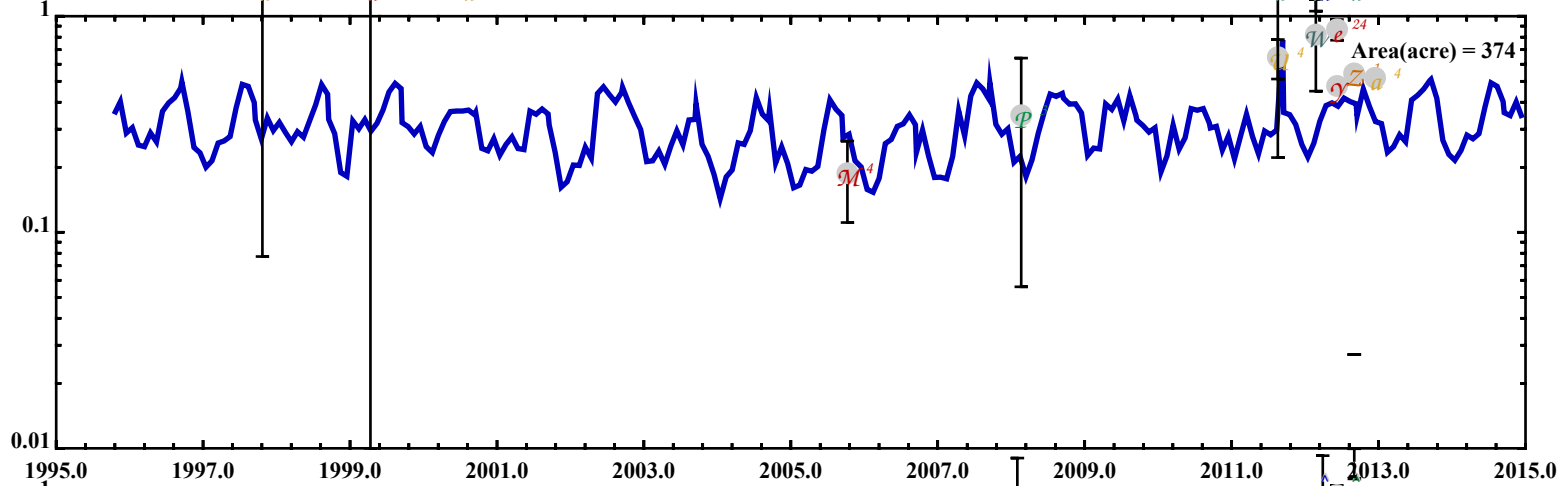
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (pg/l) (DIOXIN2)

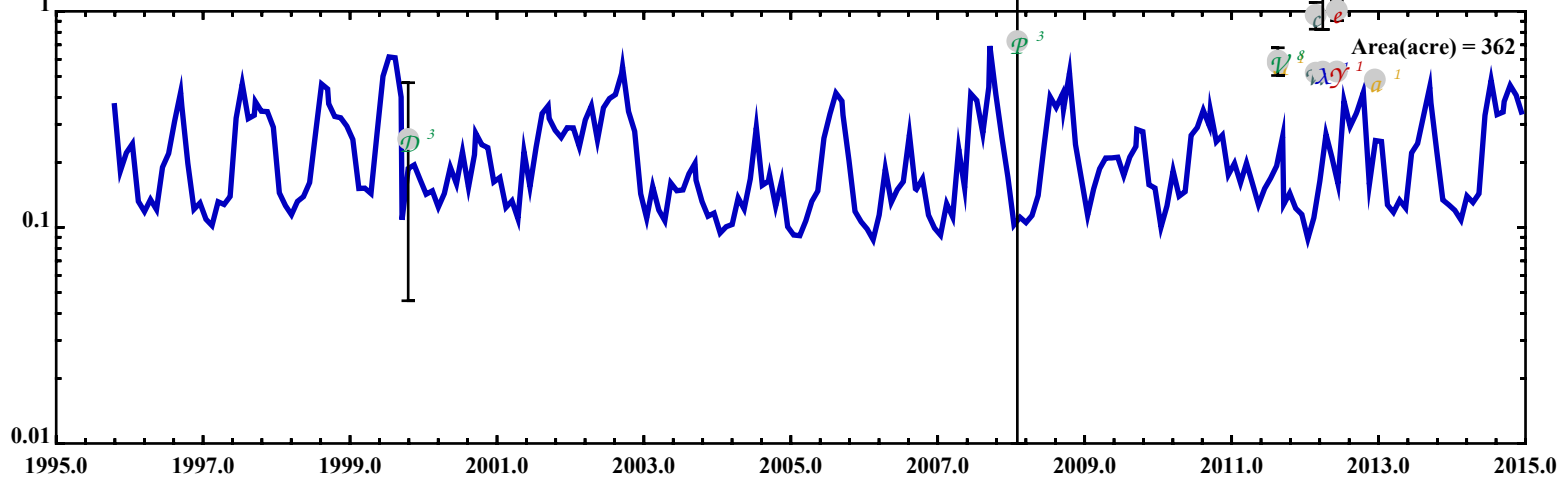
RM 0-8



RM 1-7



RM 8-17



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay Reach ABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 USEPA LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

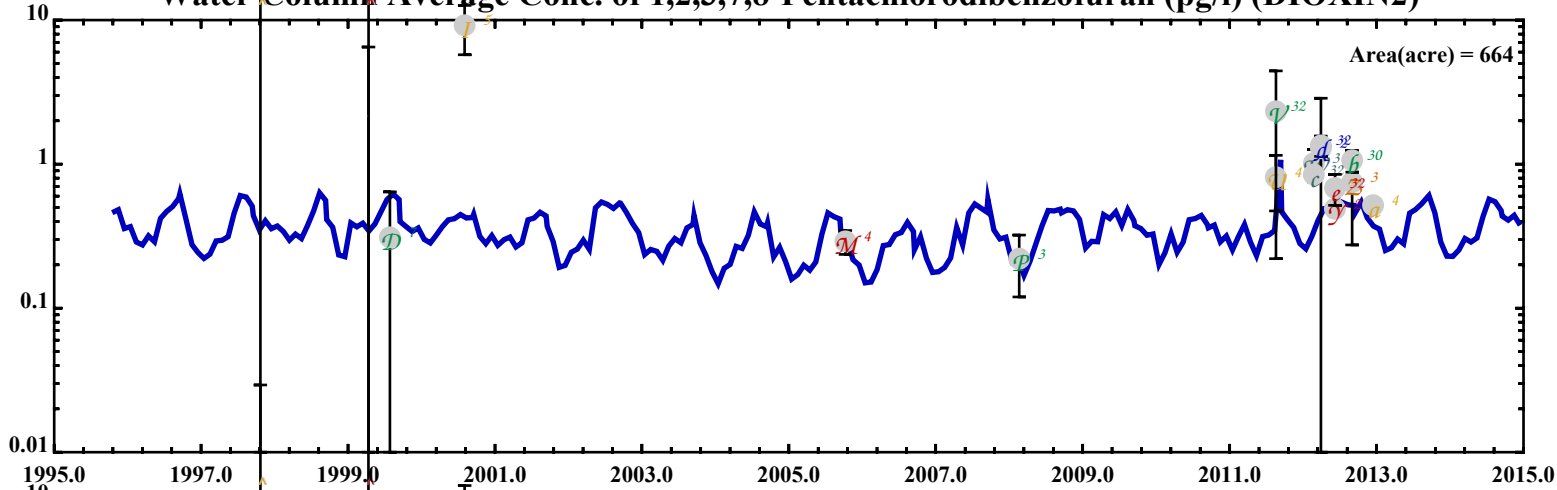
— No Action Gradient IC, Reach Scale Up

Time (Years)

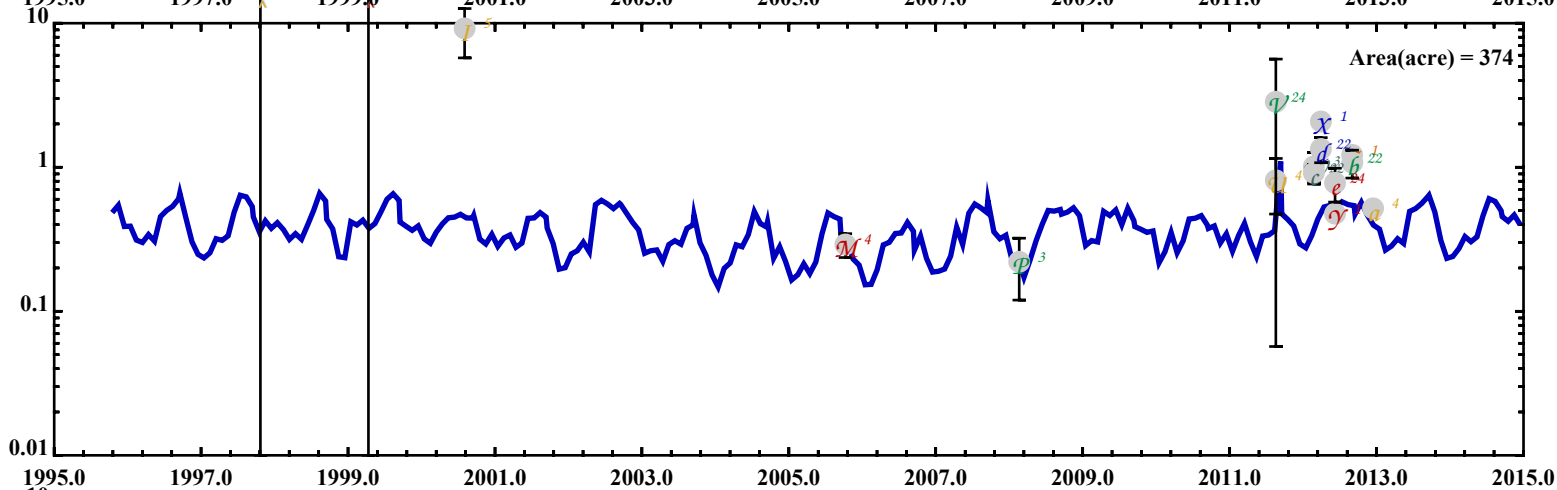


# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (pg/l) (DIOXIN2)

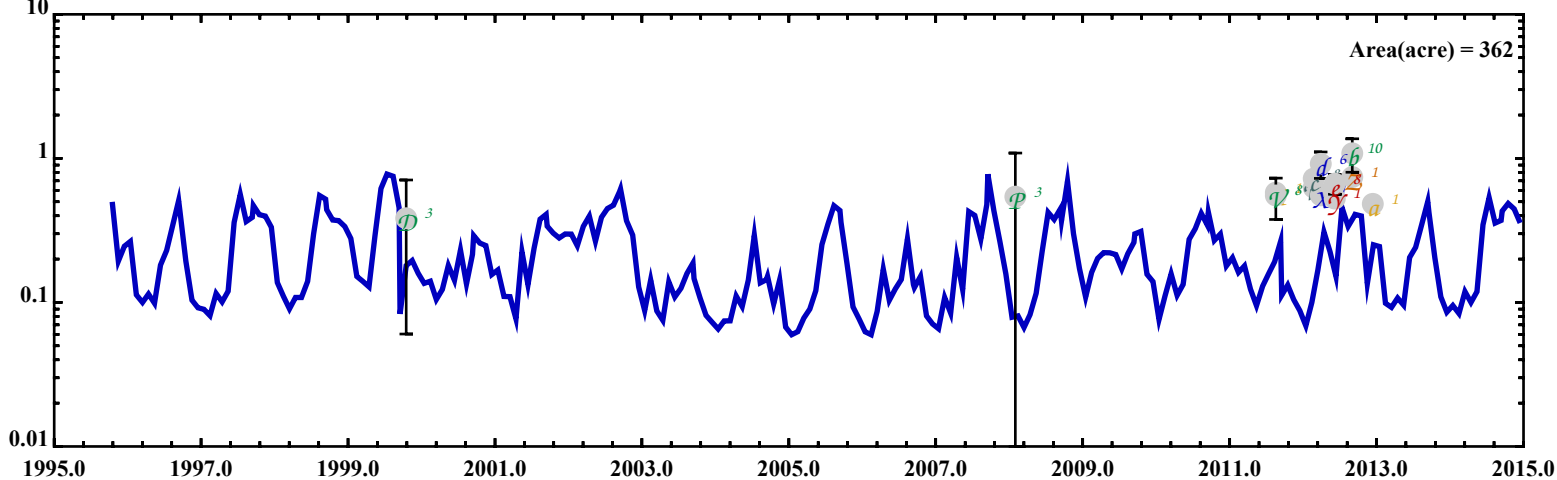
RM 0-8



RM 1-7



RM 8-17

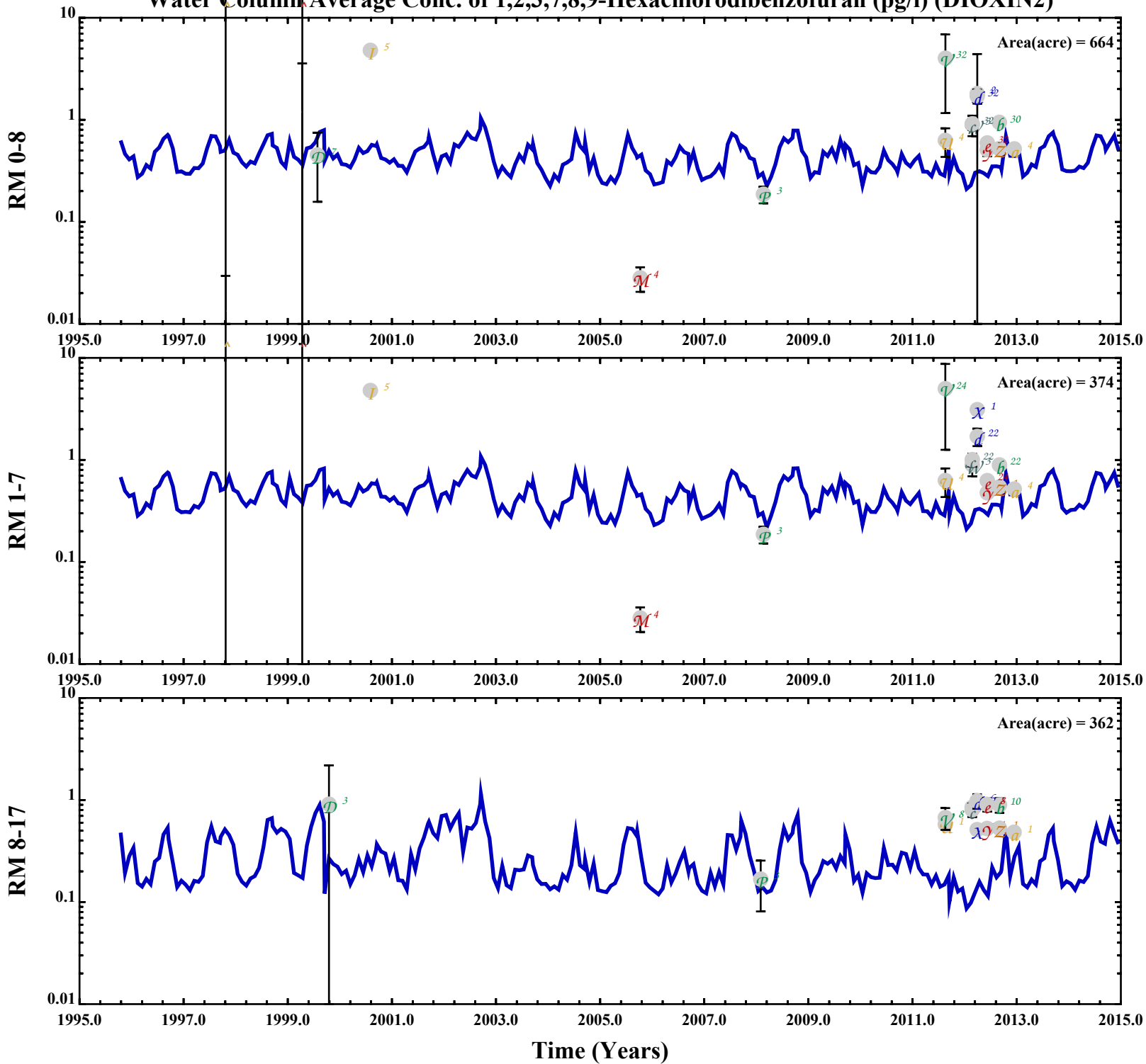


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (pg/l) (DIOXIN2)

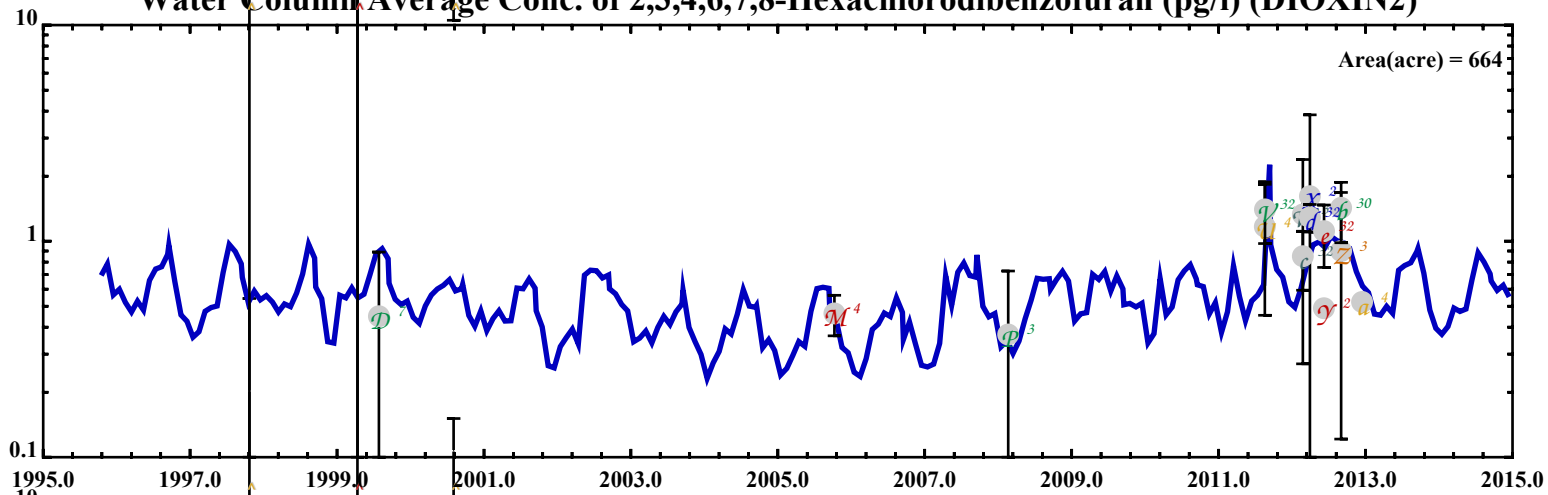


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
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- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

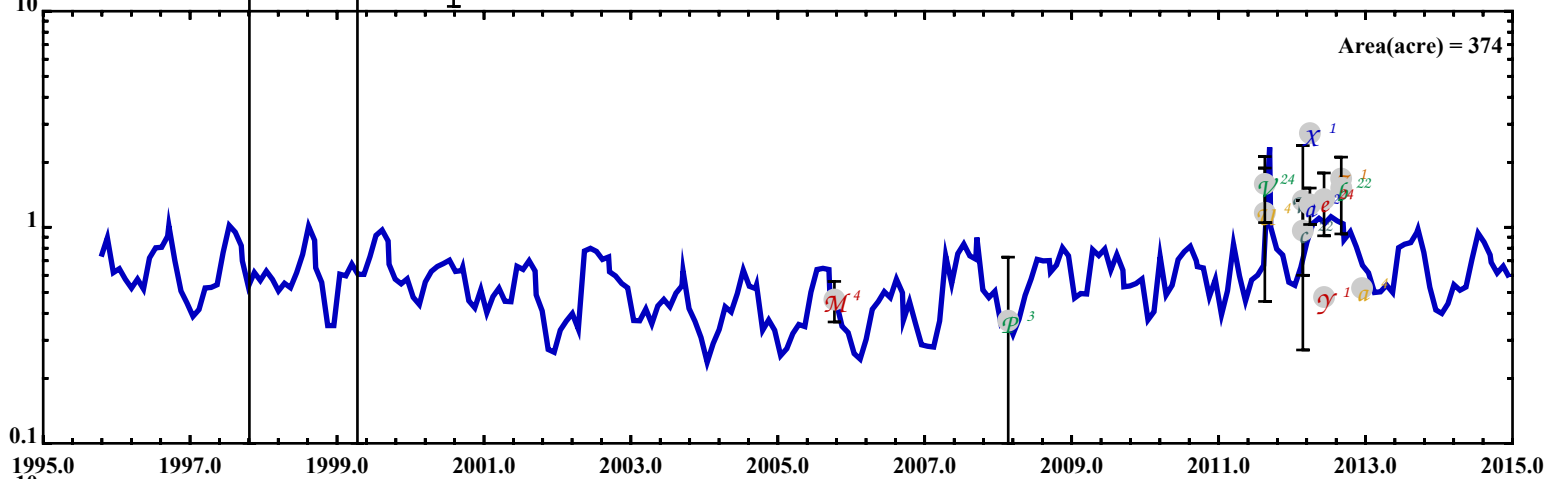
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN2)

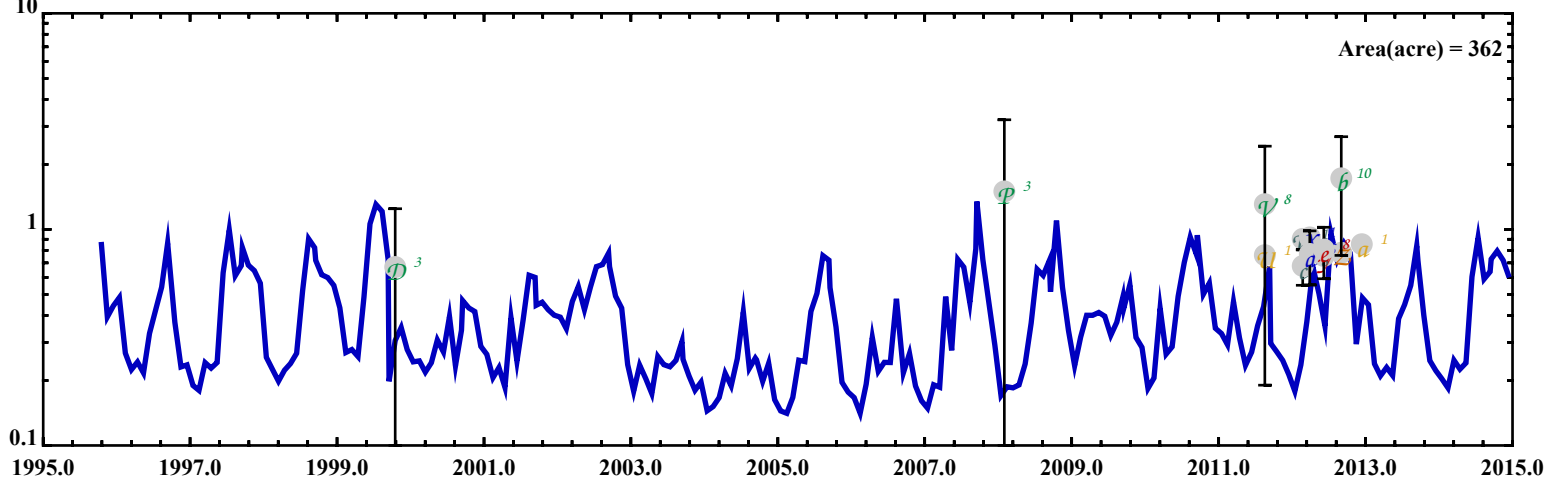
RM 0-8



RM 1-7



RM 8-17



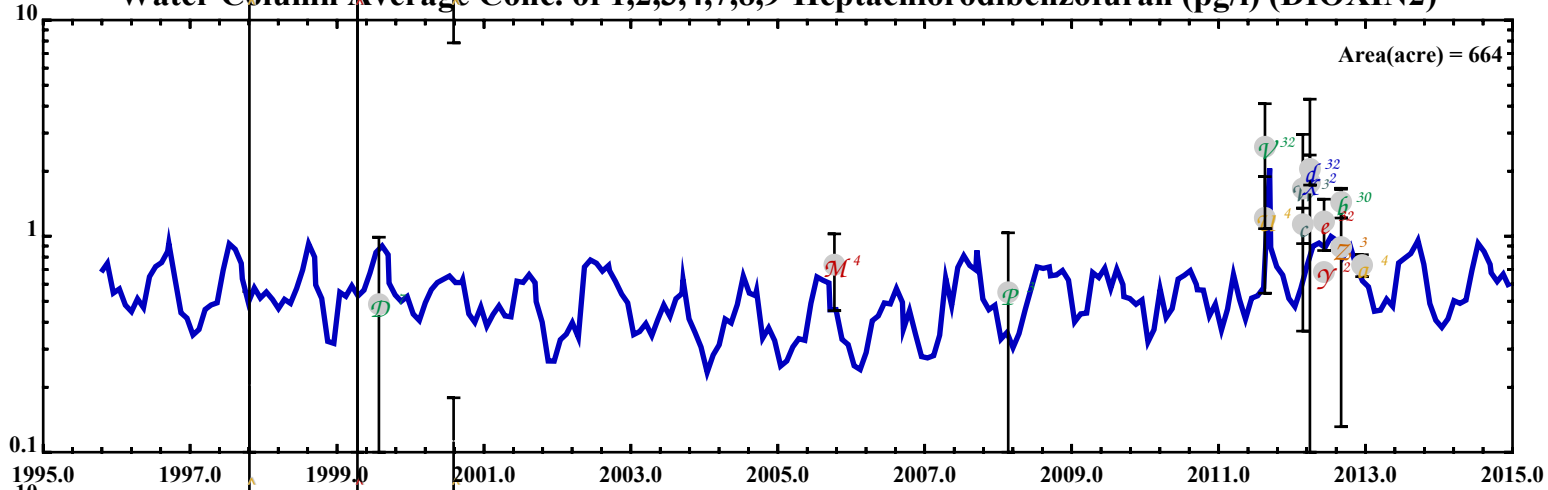
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

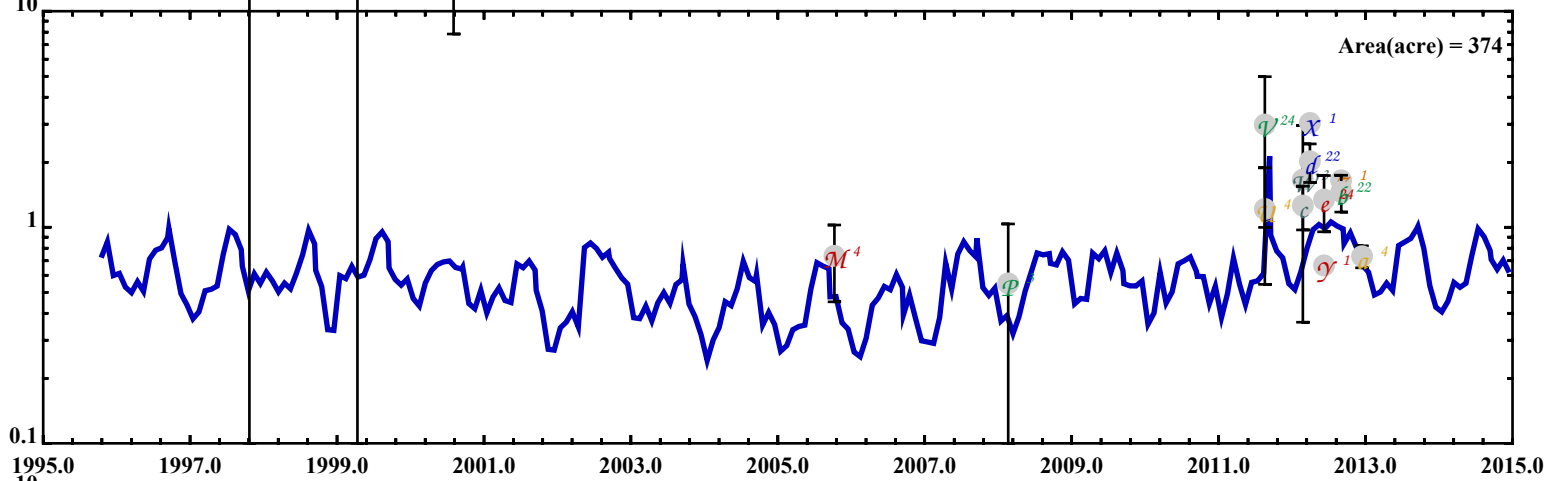
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (pg/l) (DIOXIN2)

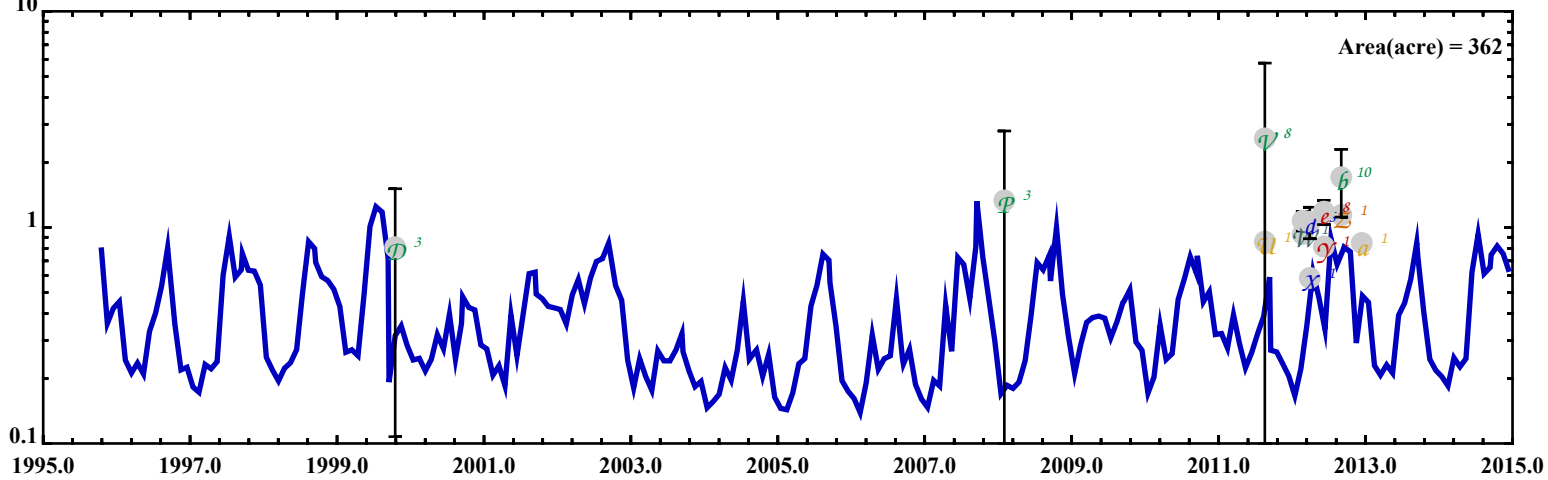
RM 0-8



RM 1-7



RM 8-17



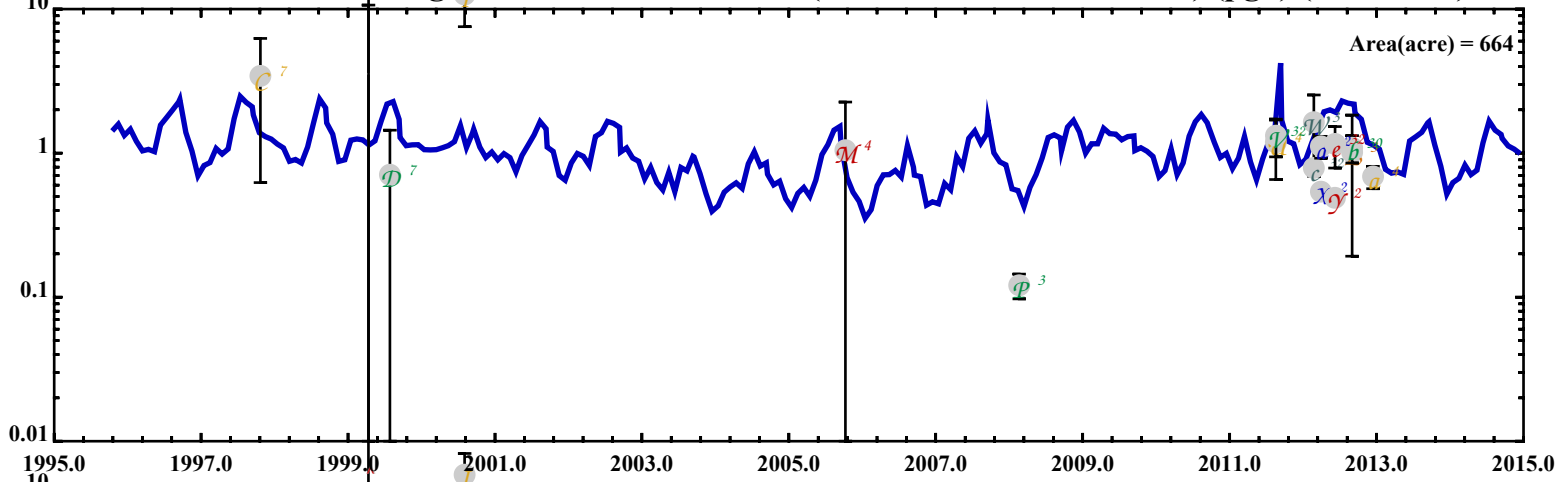
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- W 2012 CDM Smith CWCM Sampling - Round 2
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

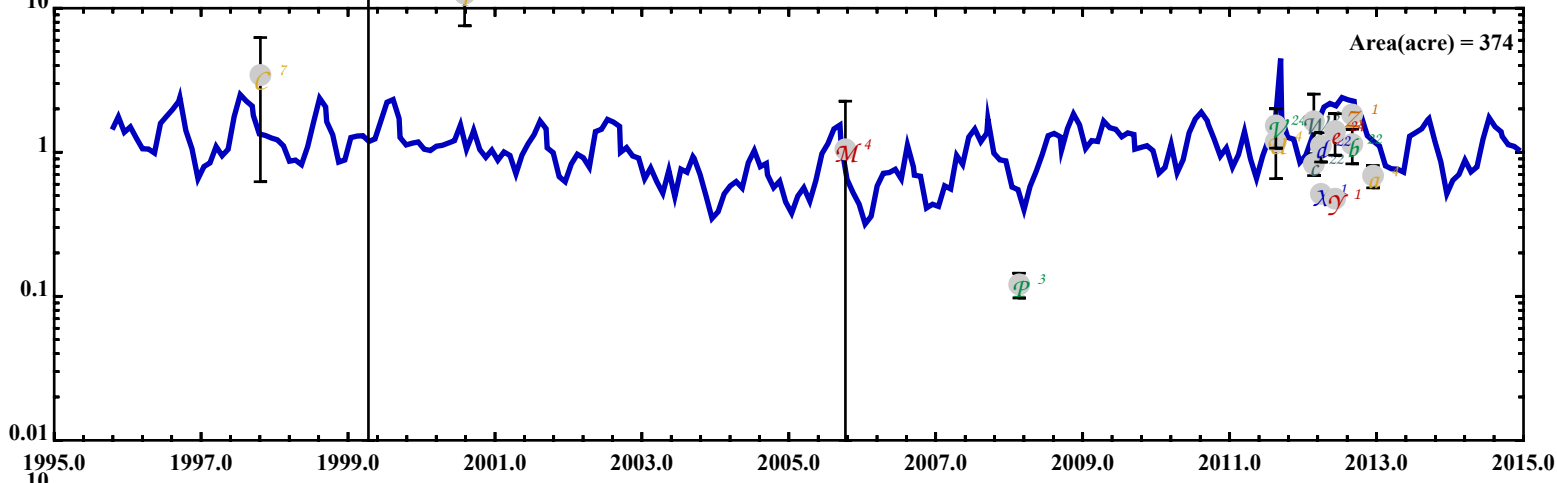
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (pg/l) (DIOXIN3)

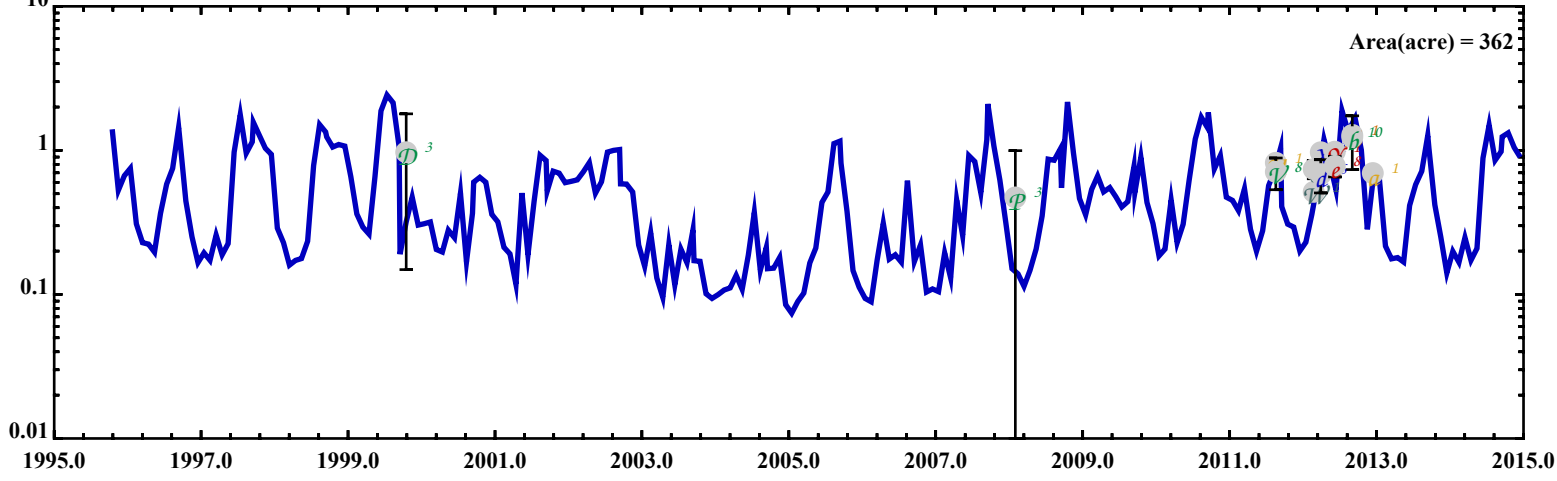
RM 0-8



RM 1-7



RM 8-17



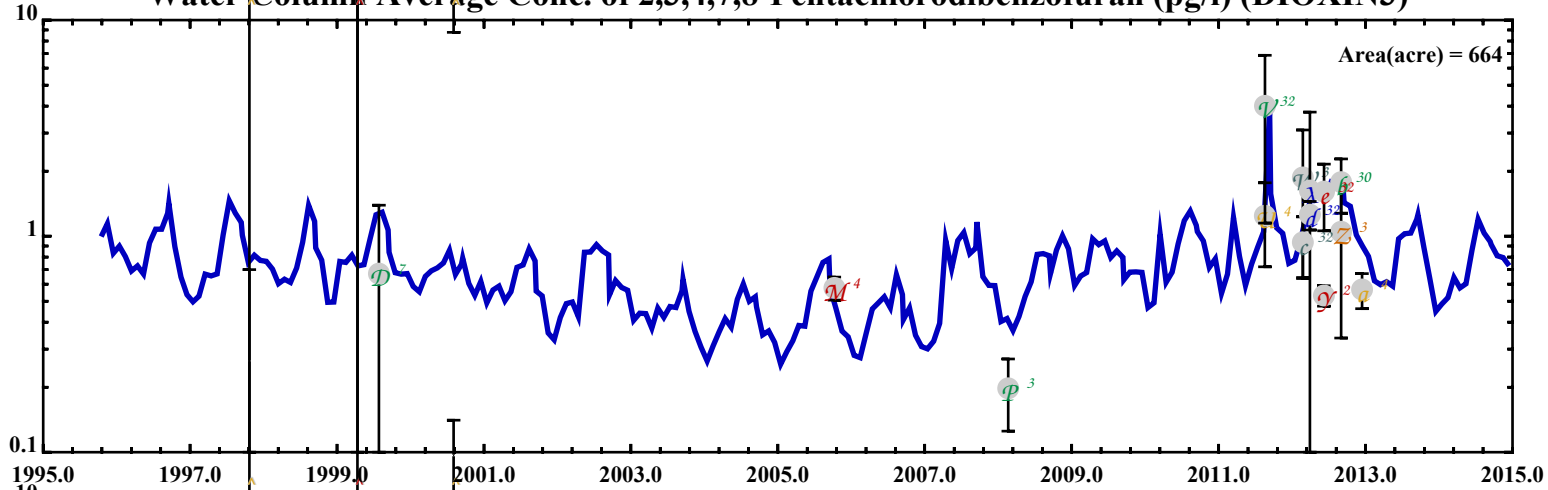
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
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- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
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- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

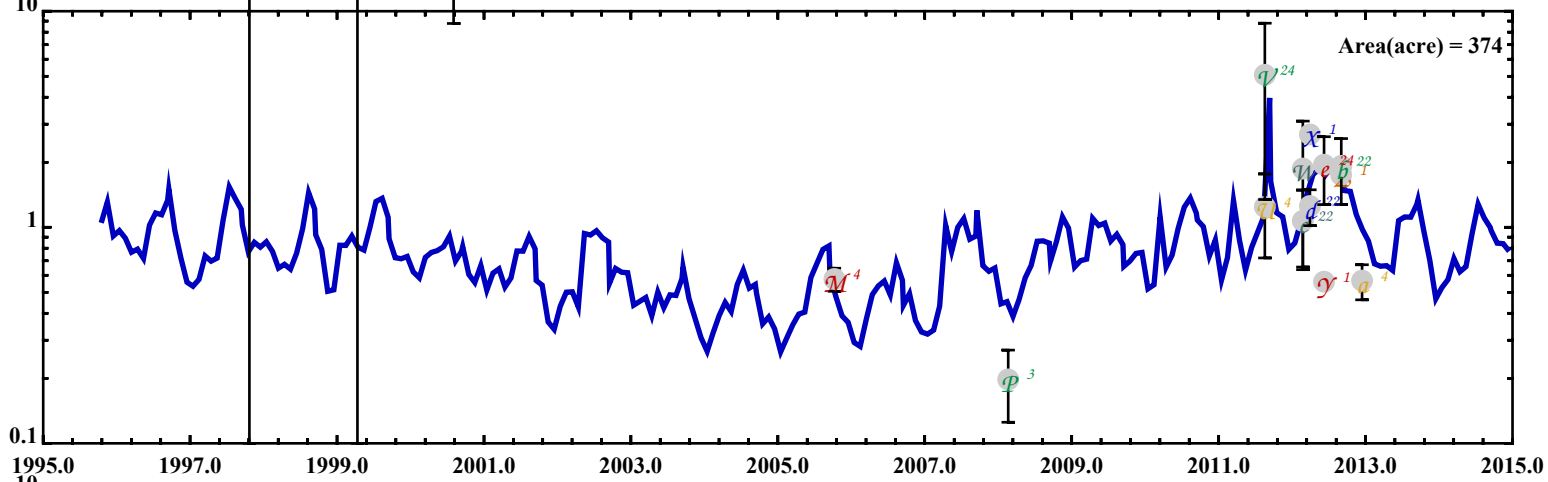
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (pg/l) (DIOXIN3)

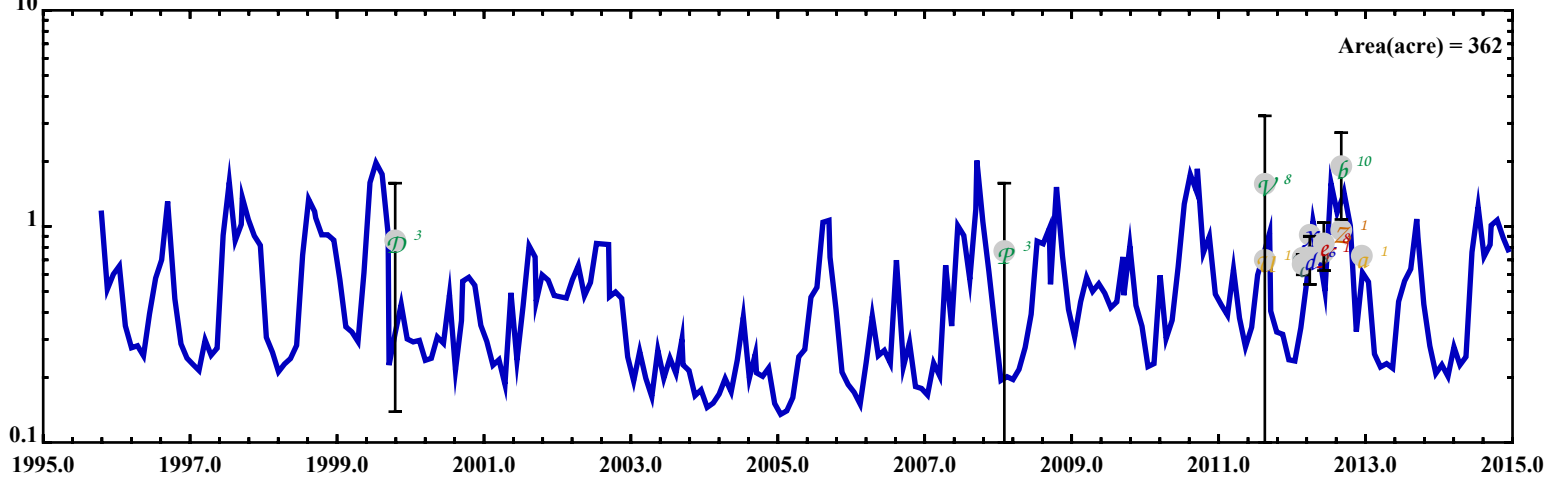
RM 0-8



RM 1-7



RM 8-17



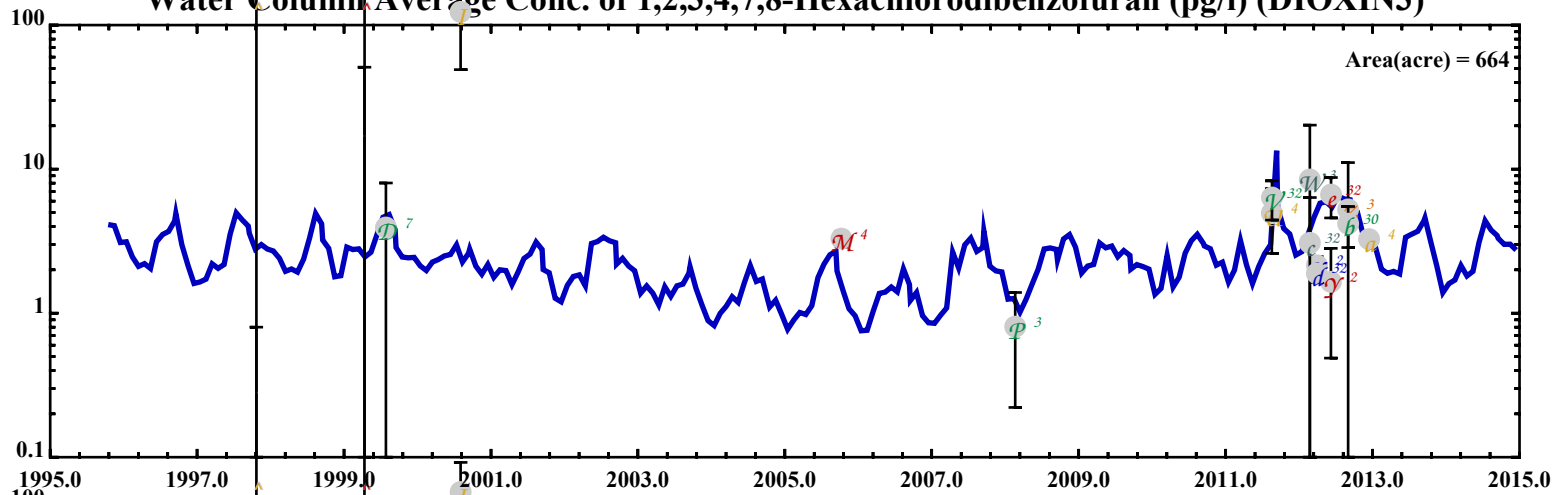
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

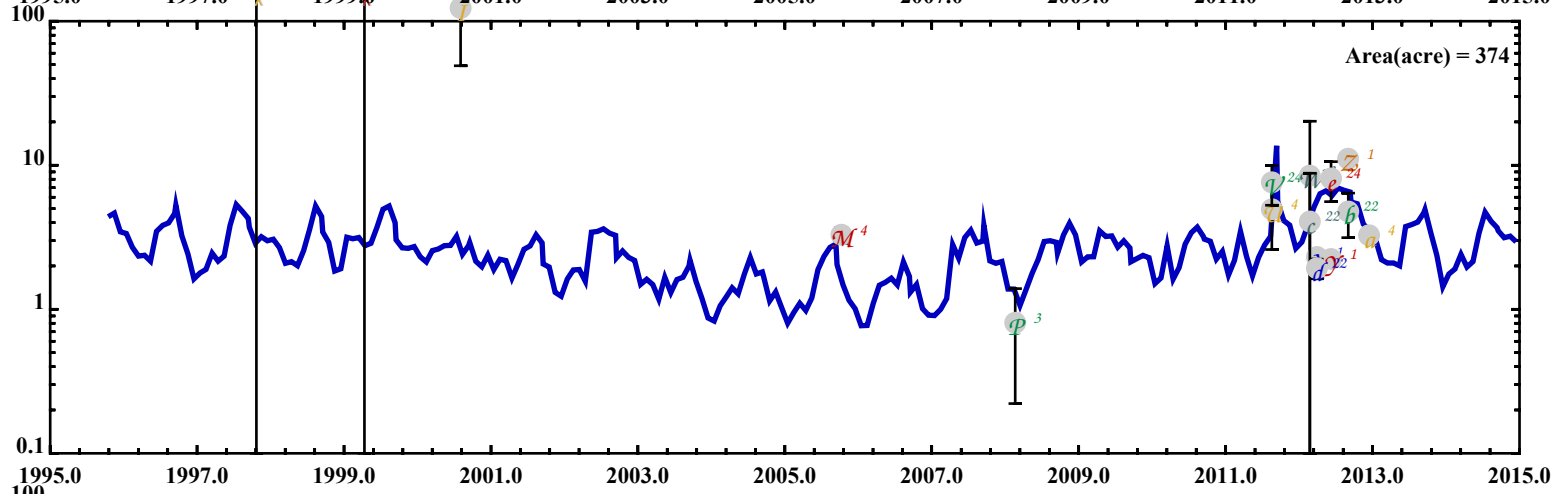
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN3)

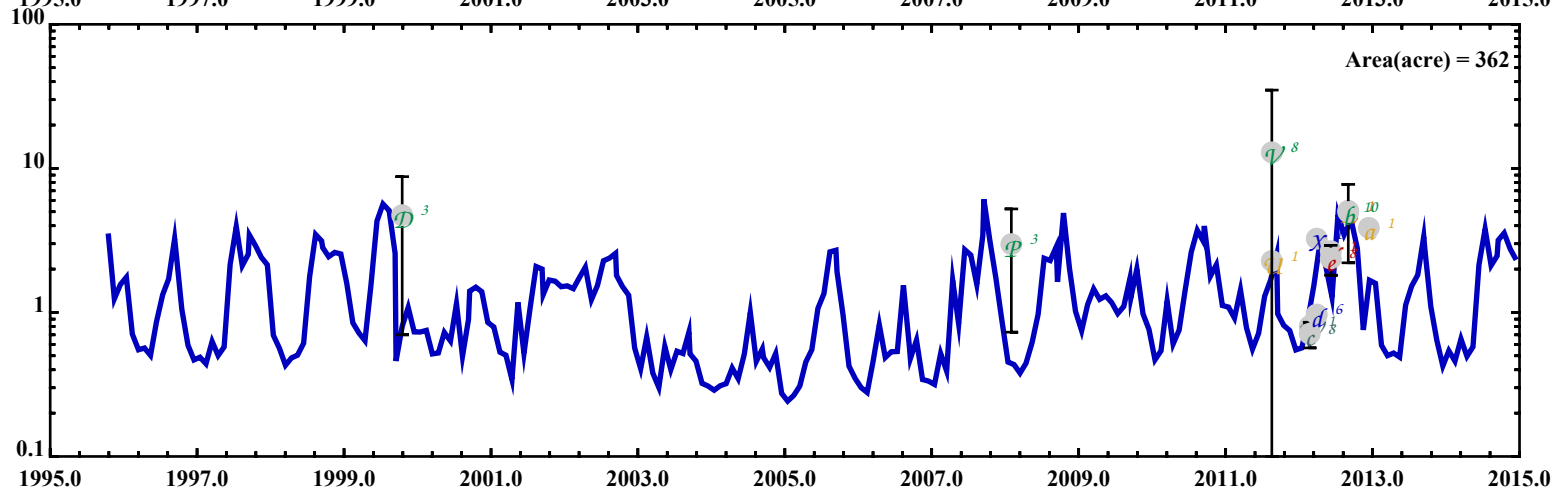
RM 0-8



RM 1-7



RM 8-17



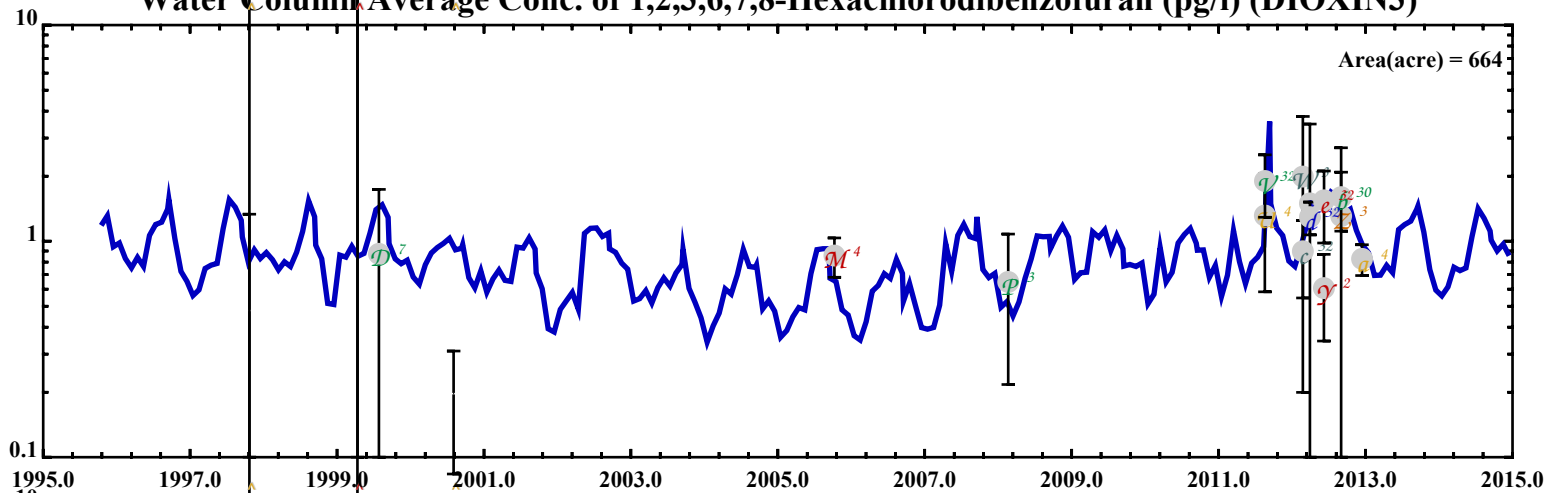
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

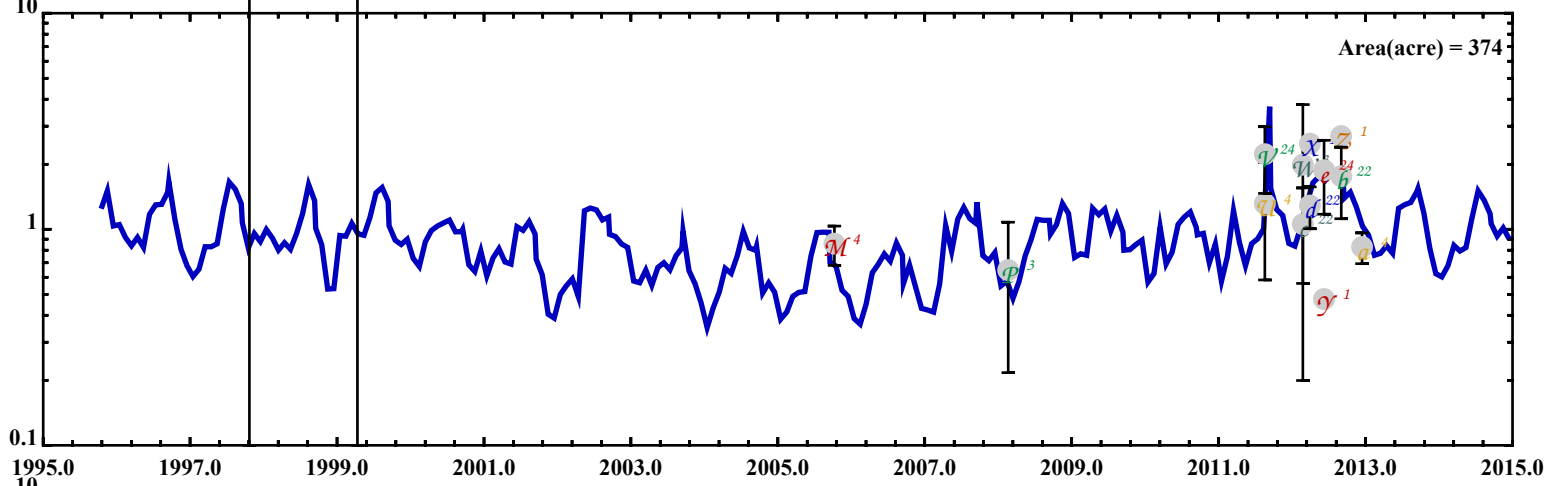
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN3)

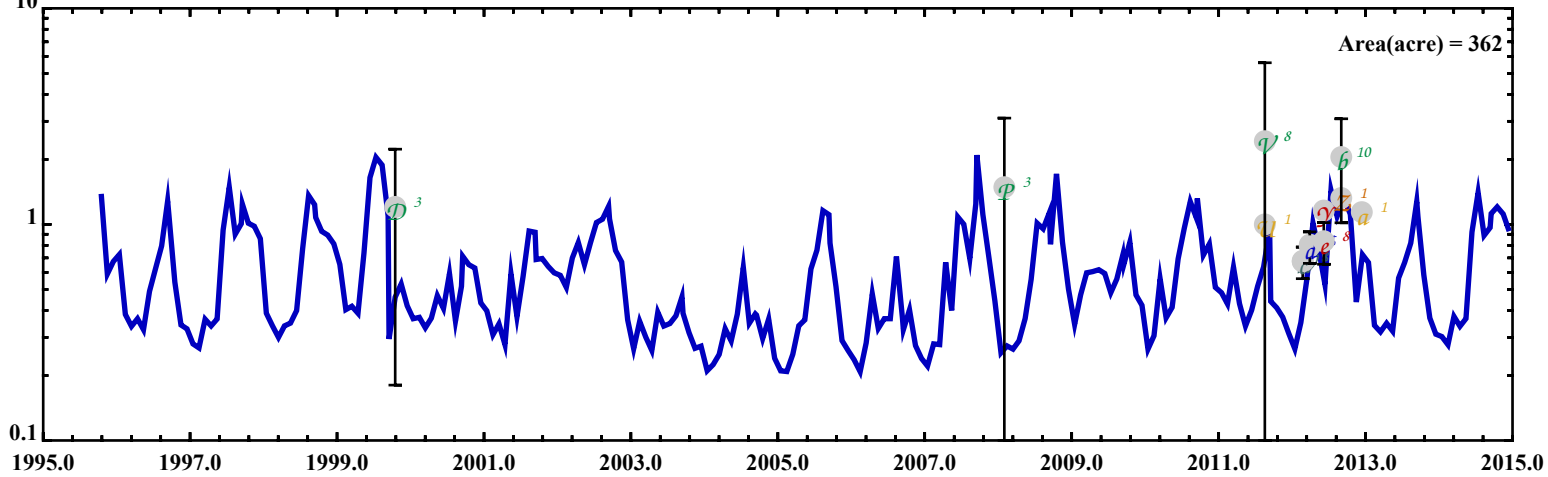
RM 0-8



RM 1-7



RM 8-17



Time (Years)

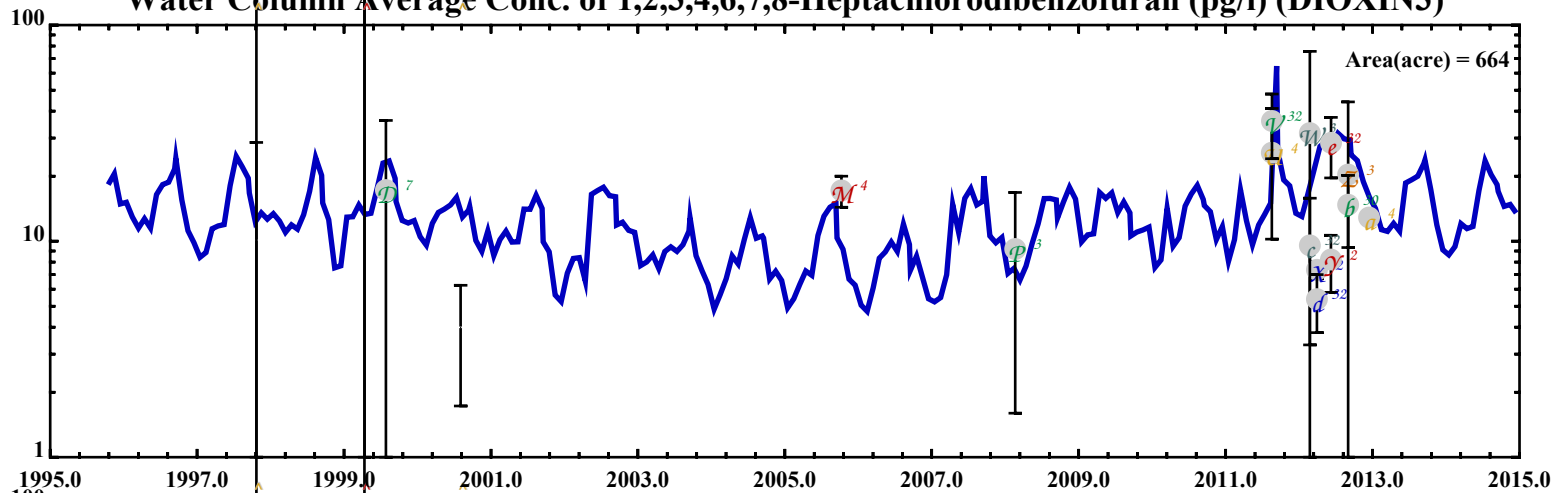
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

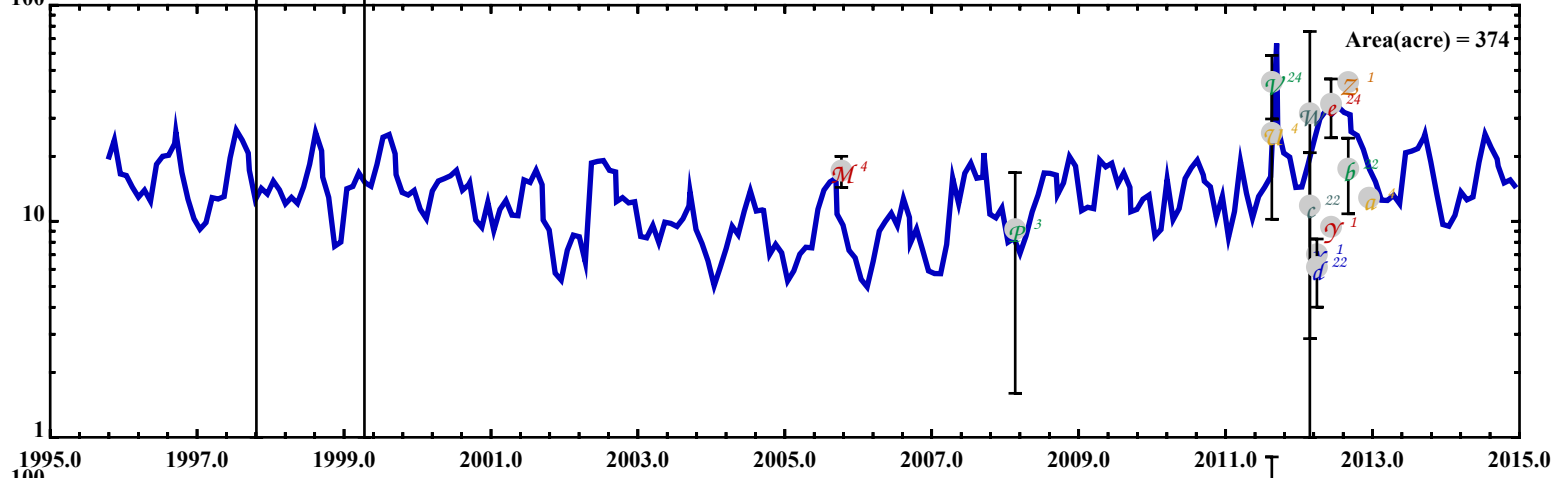


# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (pg/l) (DIOXIN3)

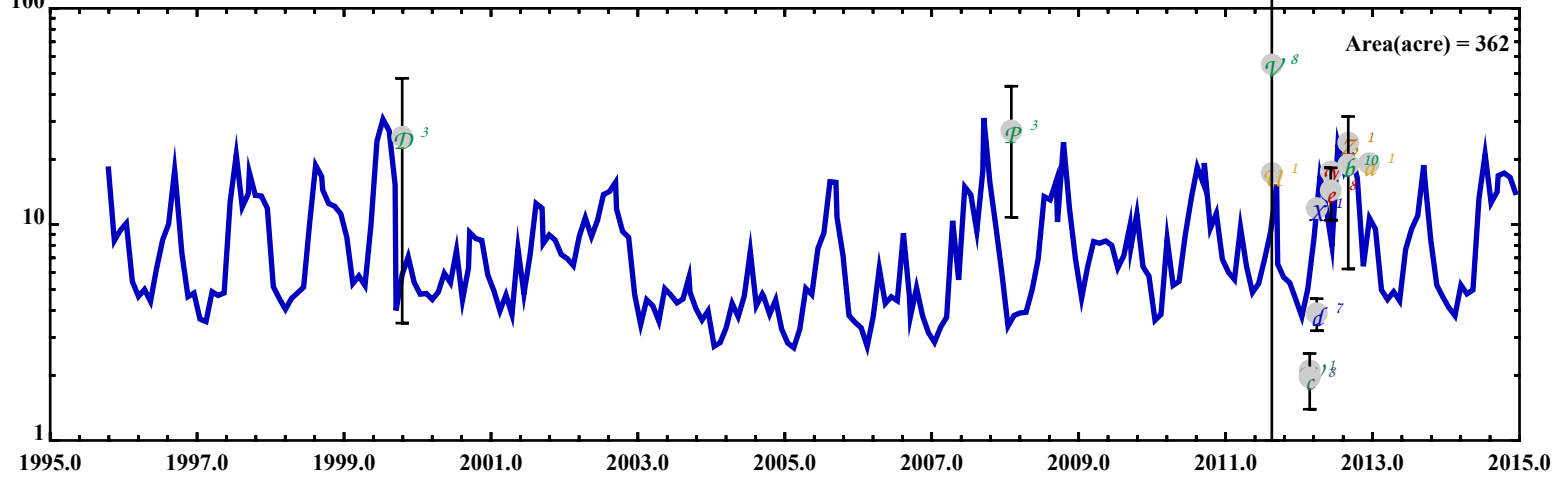
RM 0-8



RM 1-7



RM 8-17



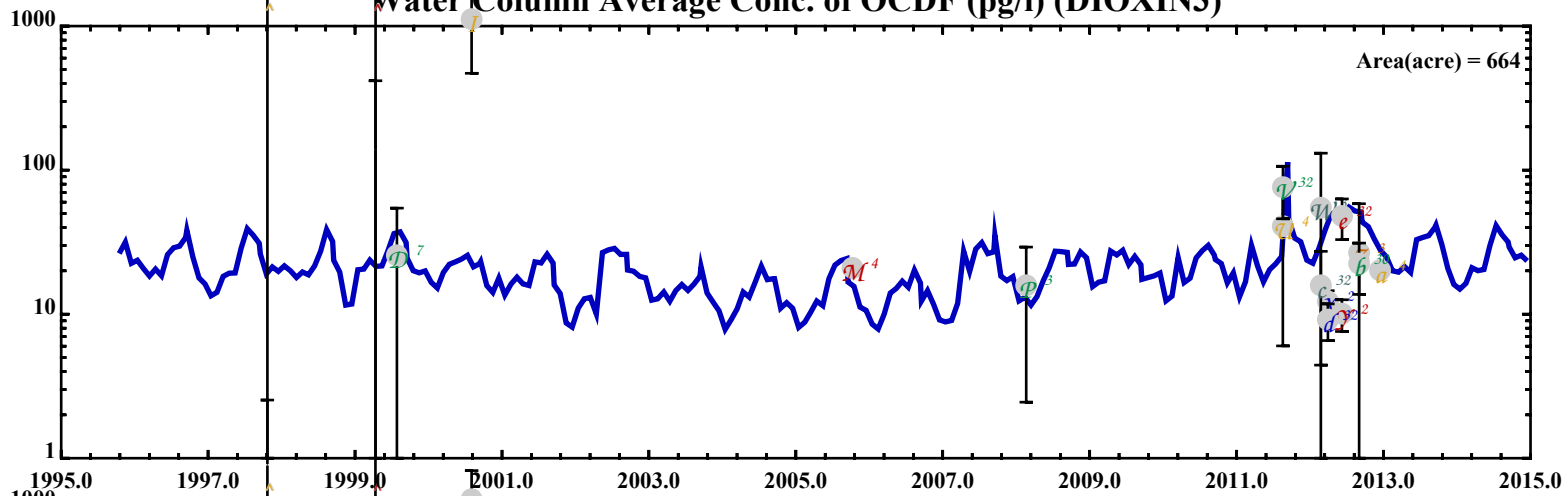
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

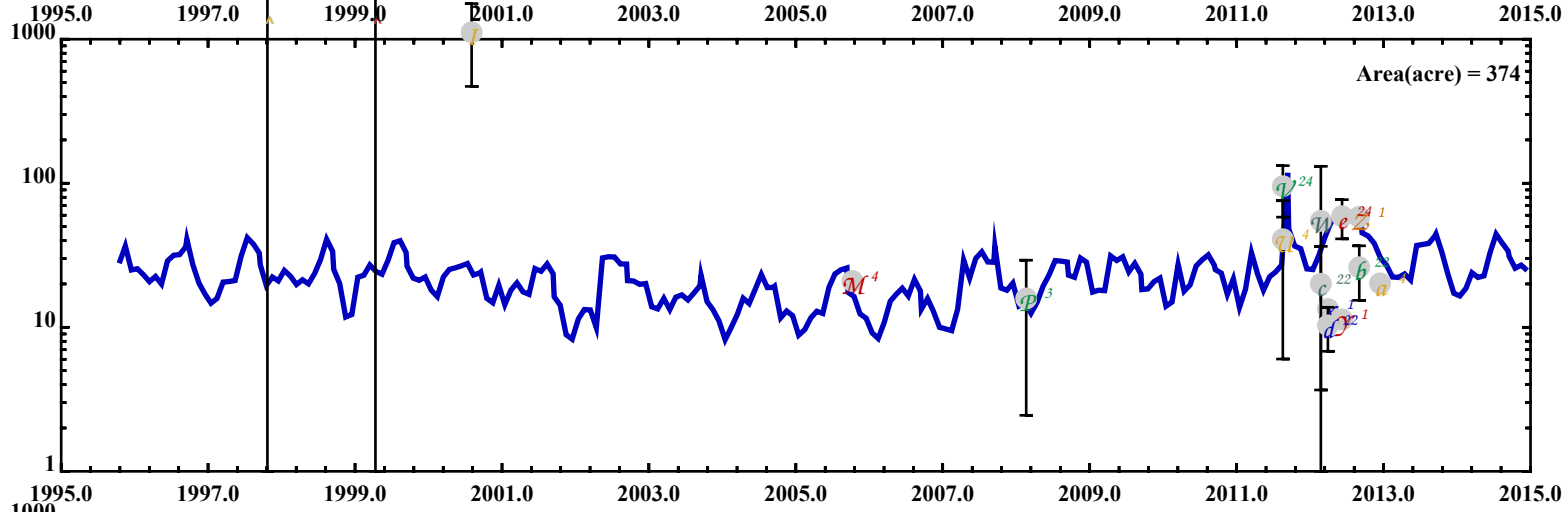
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of OCDF (pg/l) (DIOXIN3)

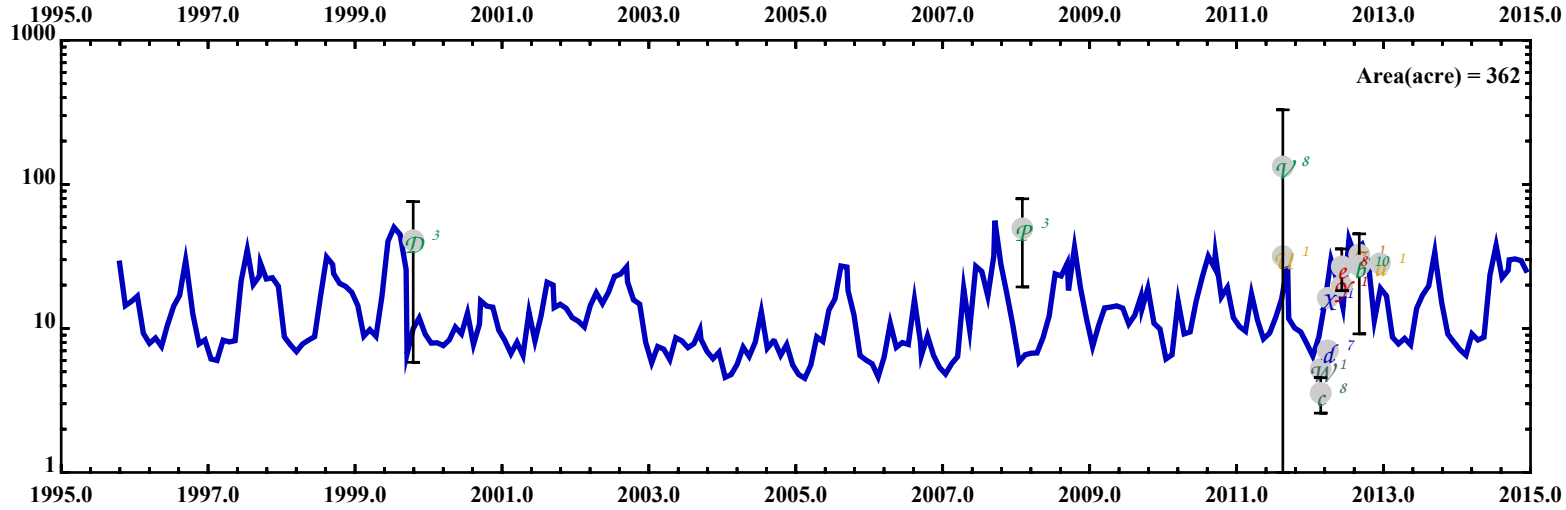
RM 0-8



RM 1-7



RM 8-17

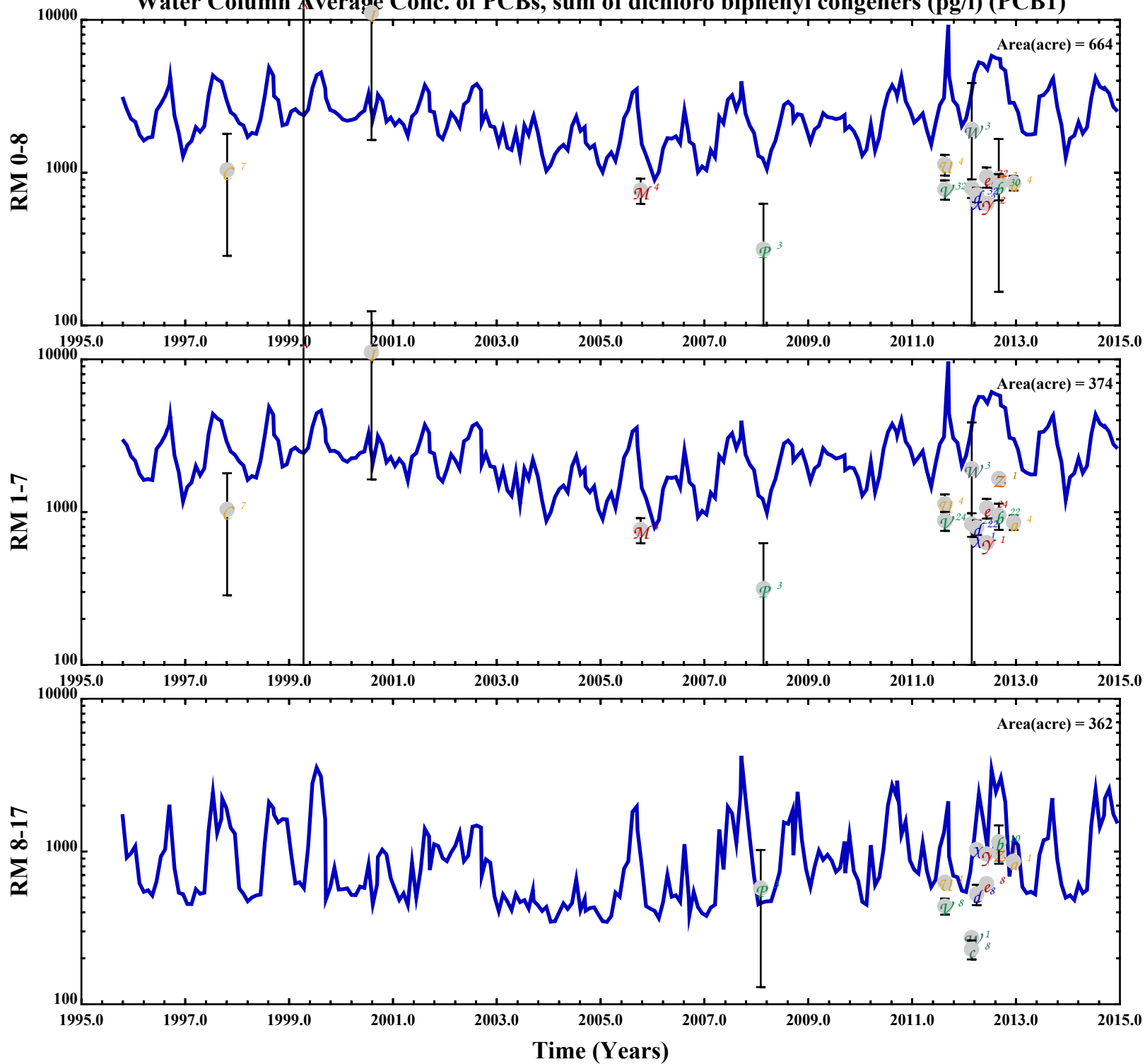


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

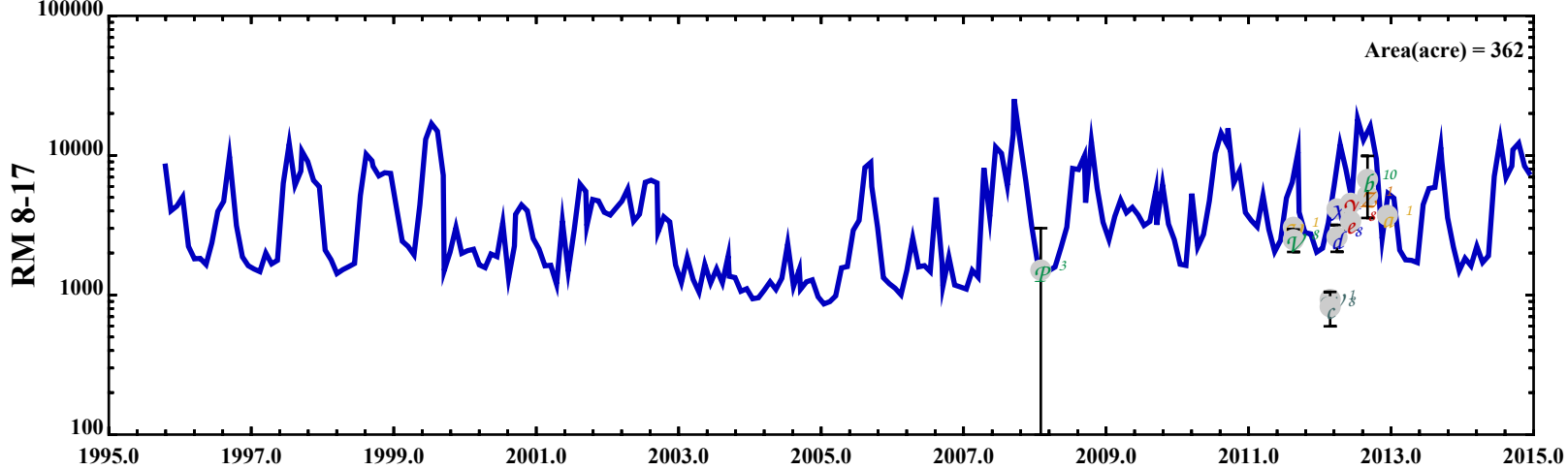
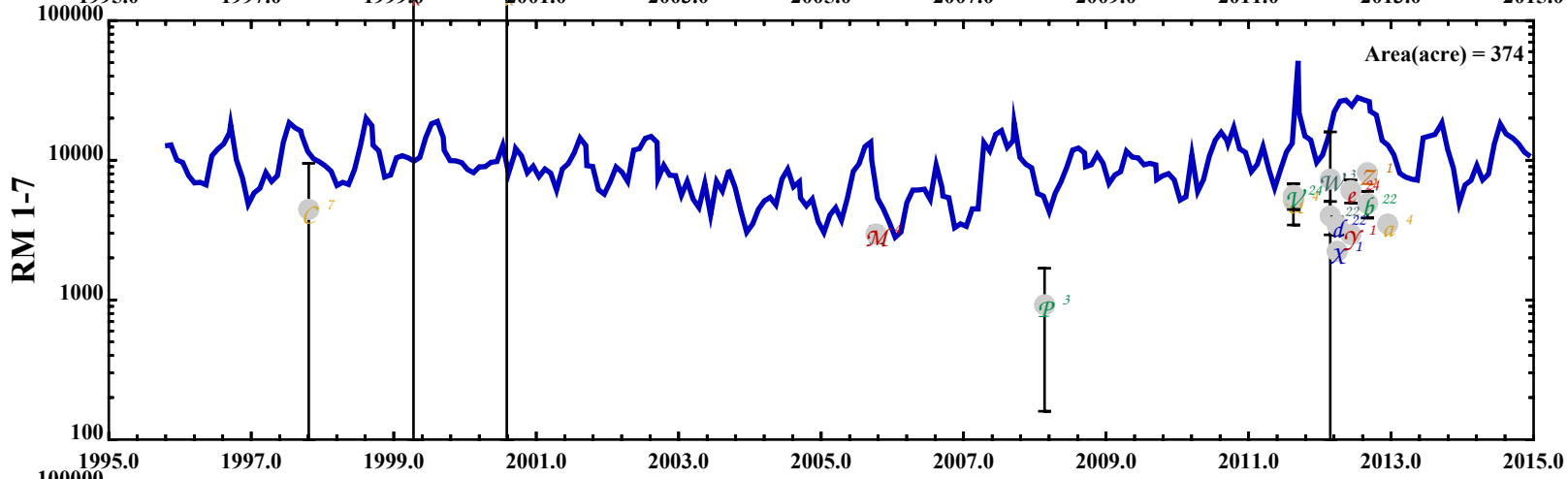
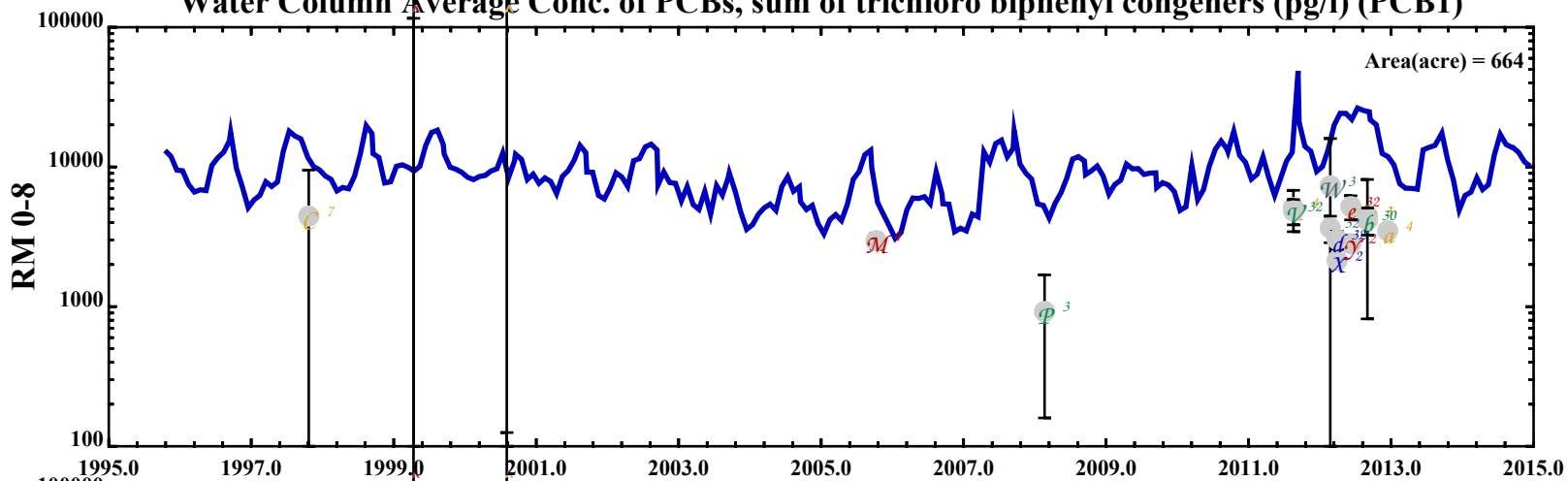
# Water Column Average Conc. of PCBs, sum of dichloro biphenyl congeners (pg/l) (PCB1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- M 2005 USEPA-MPI Large Volume Study
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- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
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- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

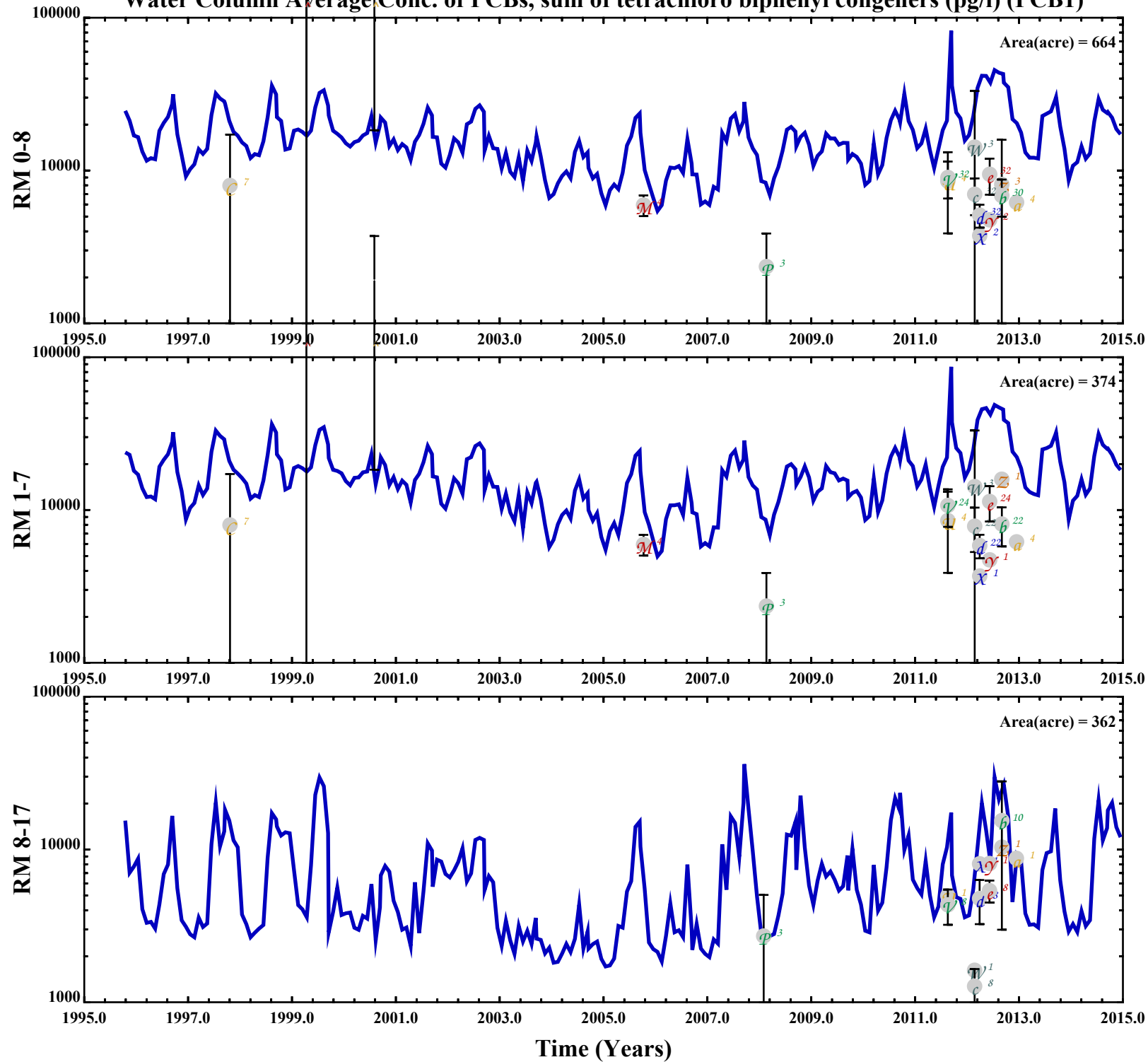
# Water Column Average Conc. of PCBs, sum of trichloro biphenyl congeners (pg/l) (PCB1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 USEPA LBG-CDM PWCM Oversight
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

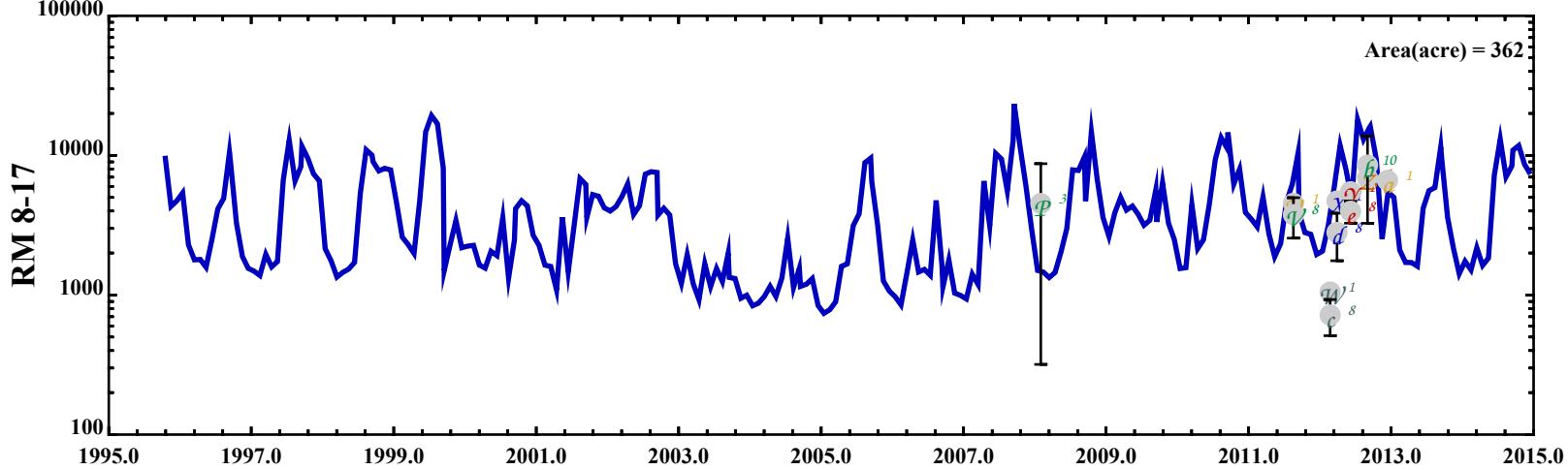
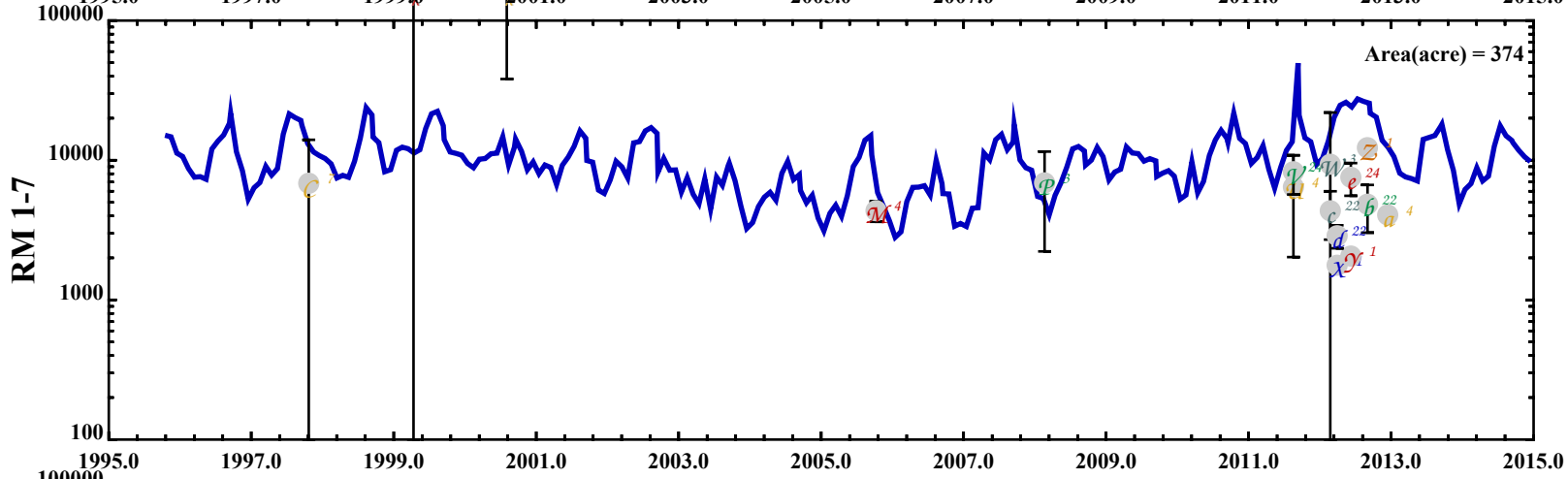
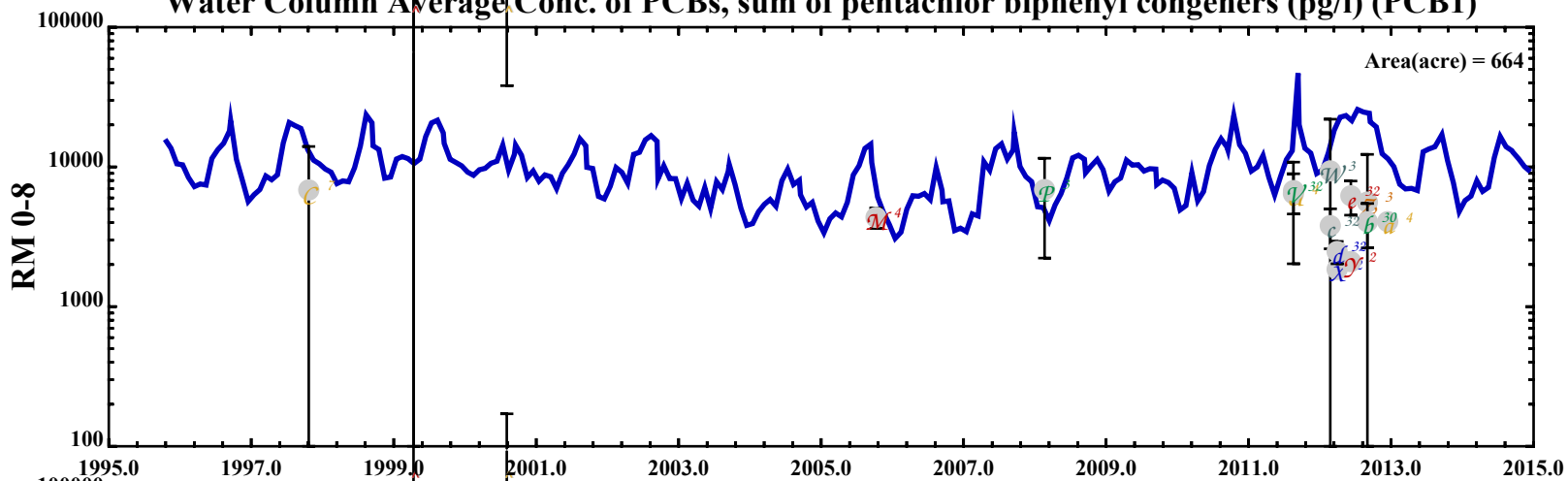
# Water Column Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (pg/l) (PCB1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of pentachlor biphenyl congeners (pg/l) (PCB1)

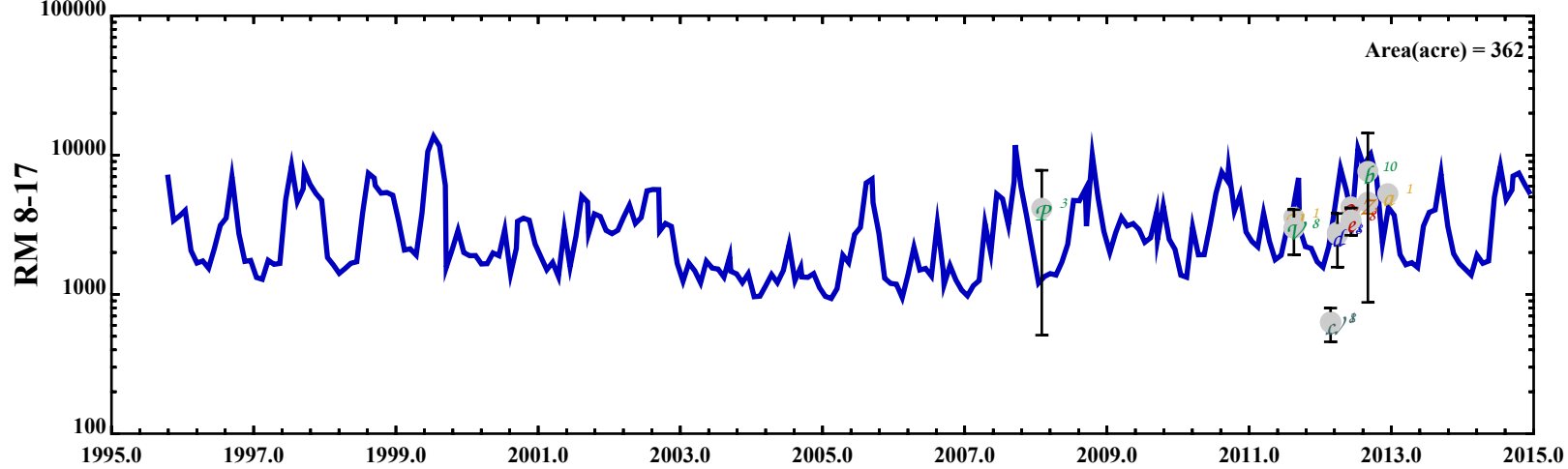
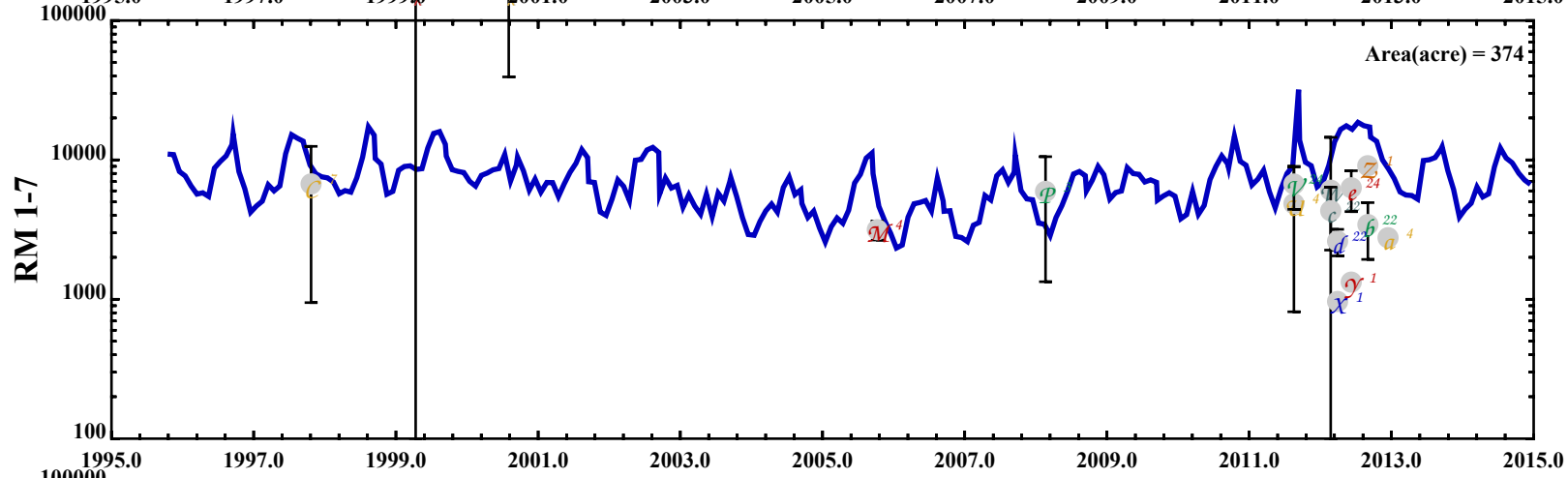
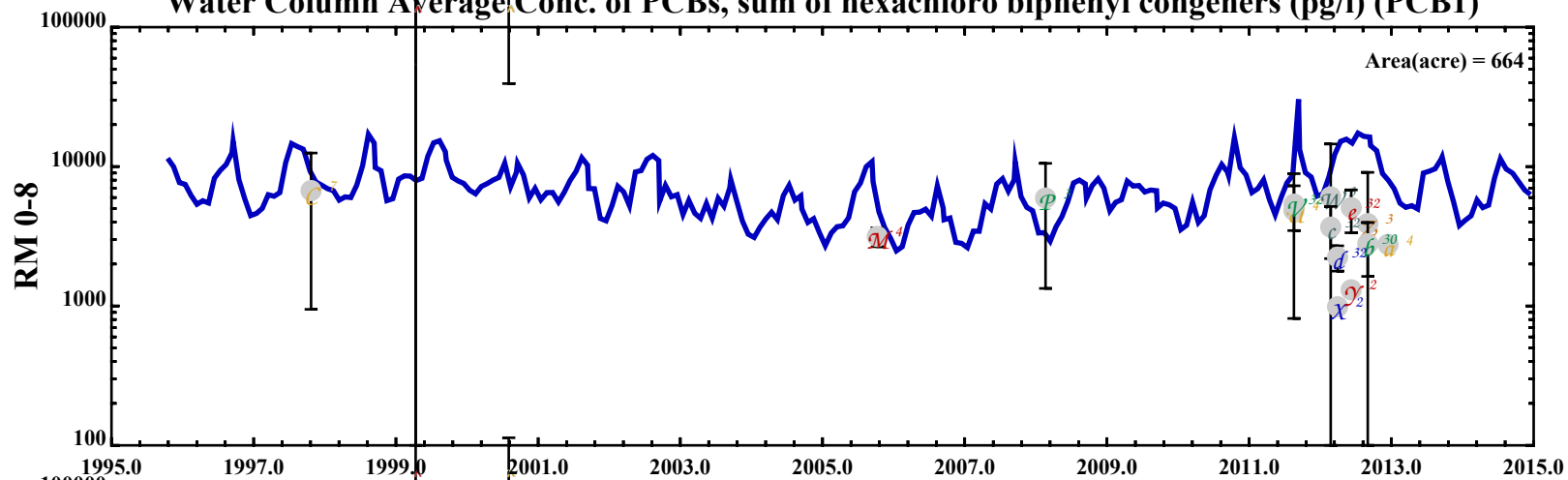


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

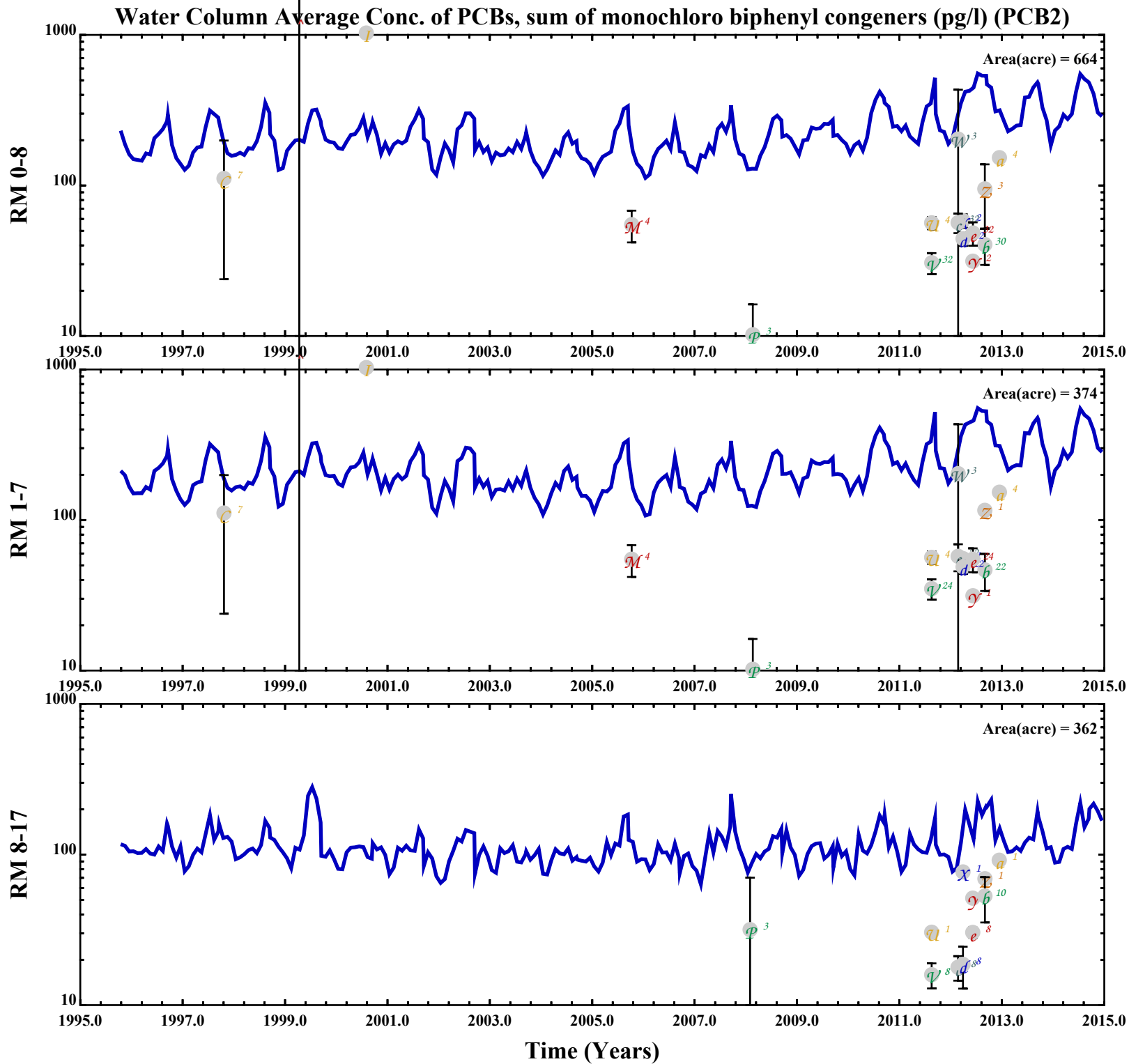
# Water Column Average Conc. of PCBs, sum of hexachloro biphenyl congeners (pg/l) (PCB1)



Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
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- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

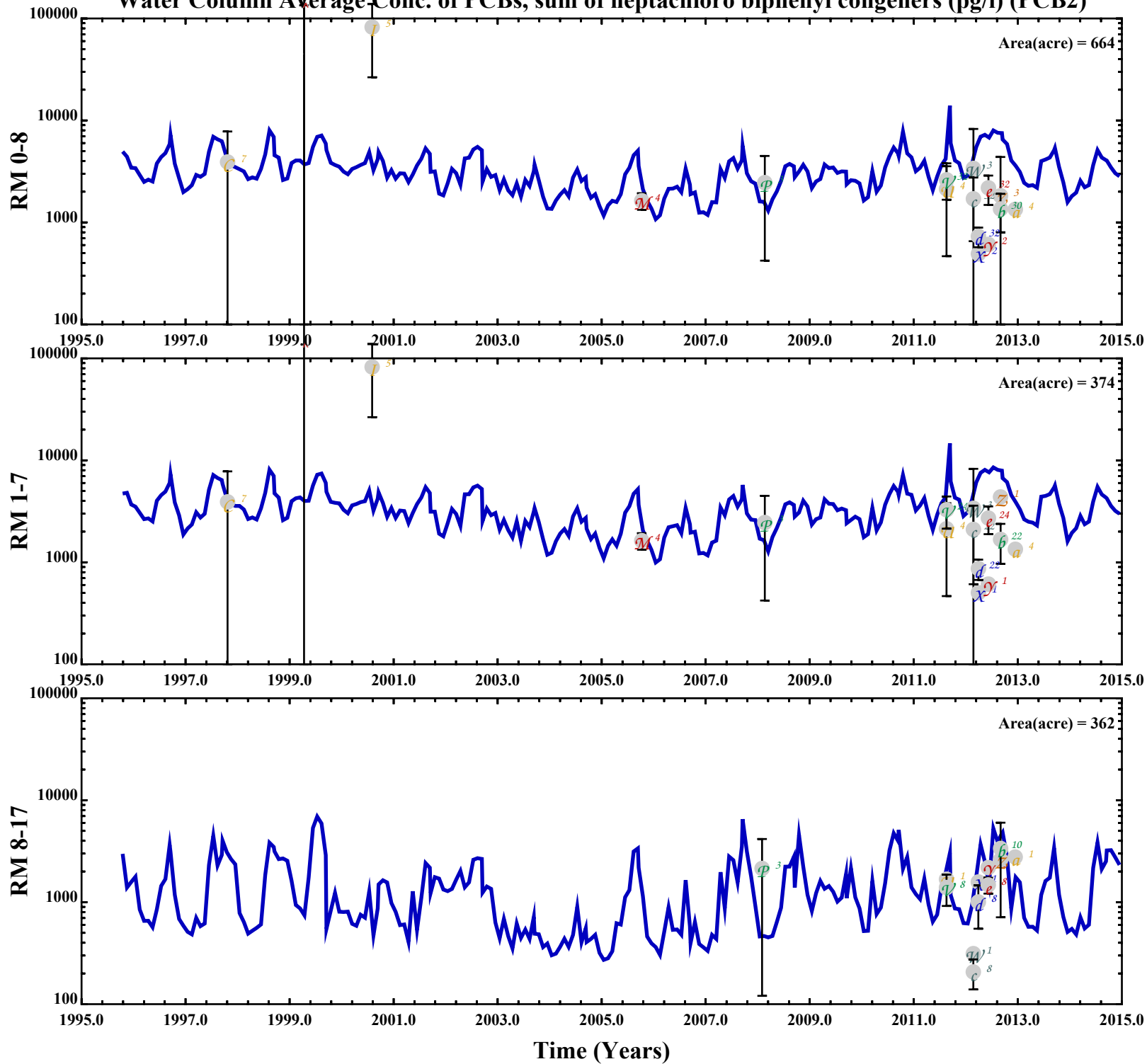


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



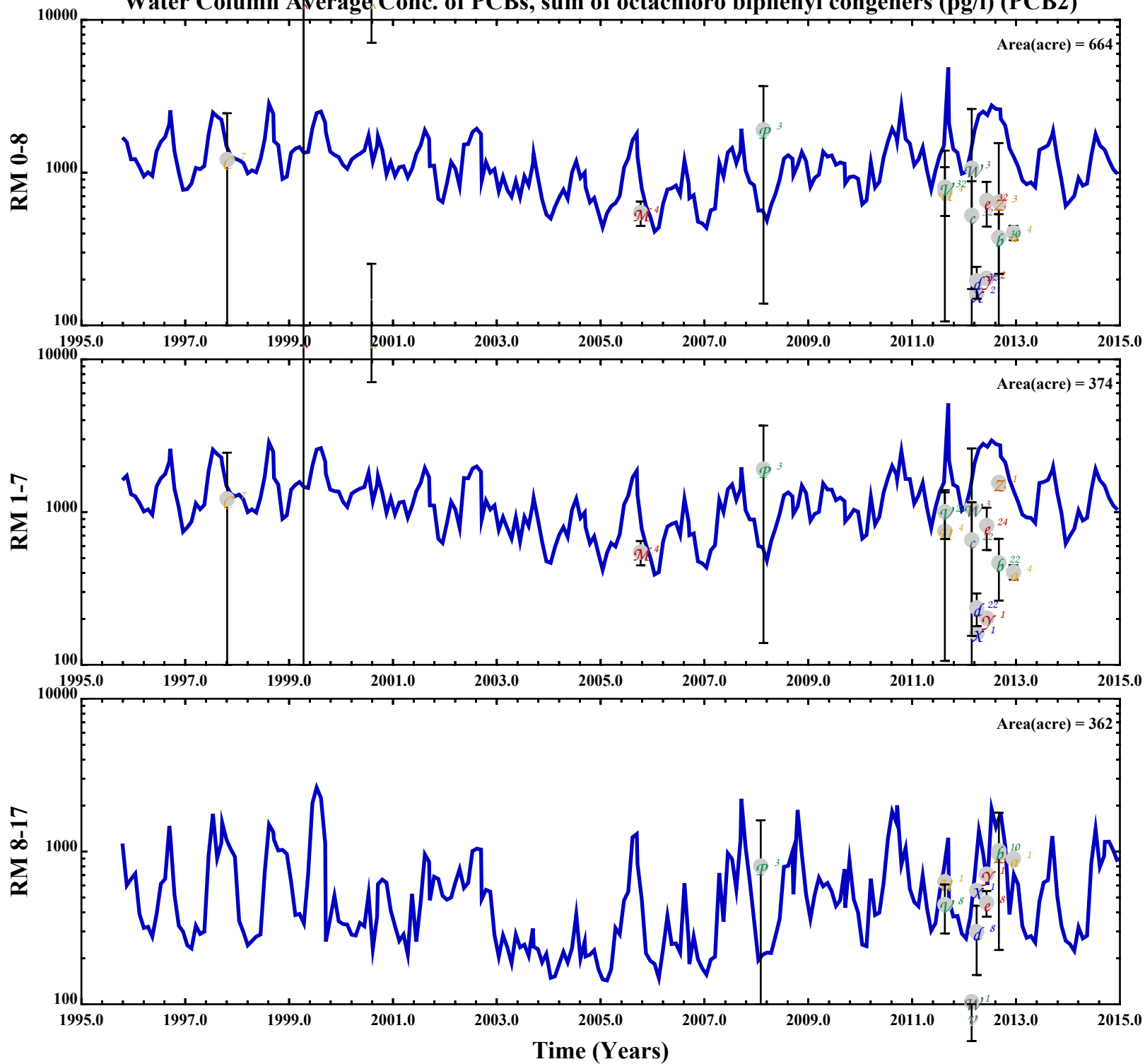
# Water Column Average Conc. of PCBs, sum of heptachloro biphenyl congeners (pg/l) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 NewarkBay ReachABCDBaselineSampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

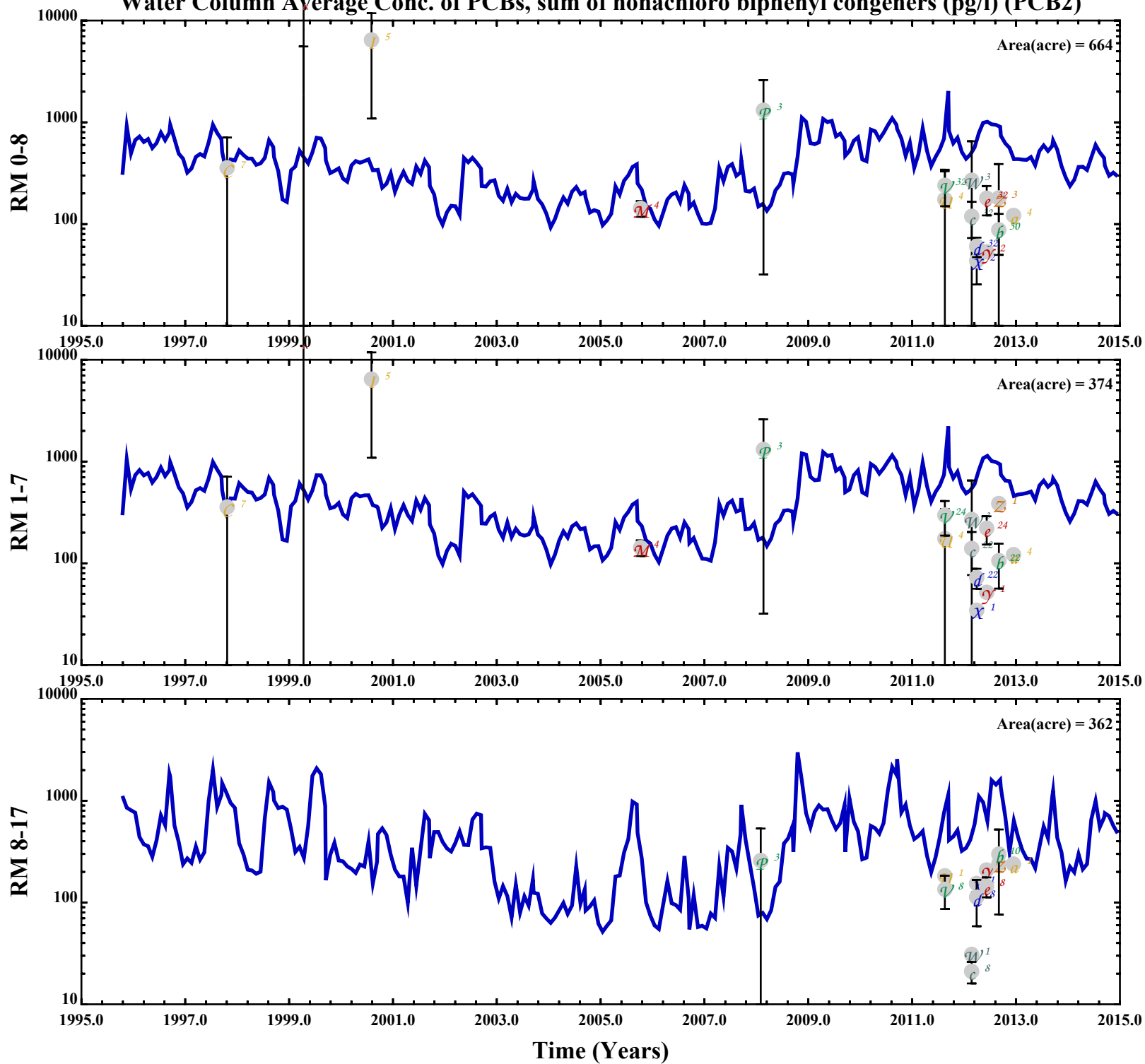
# Water Column Average Conc. of PCBs, sum of octachloro biphenyl congeners (pg/l) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 NewarkBay ReachABCDBaselineSampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

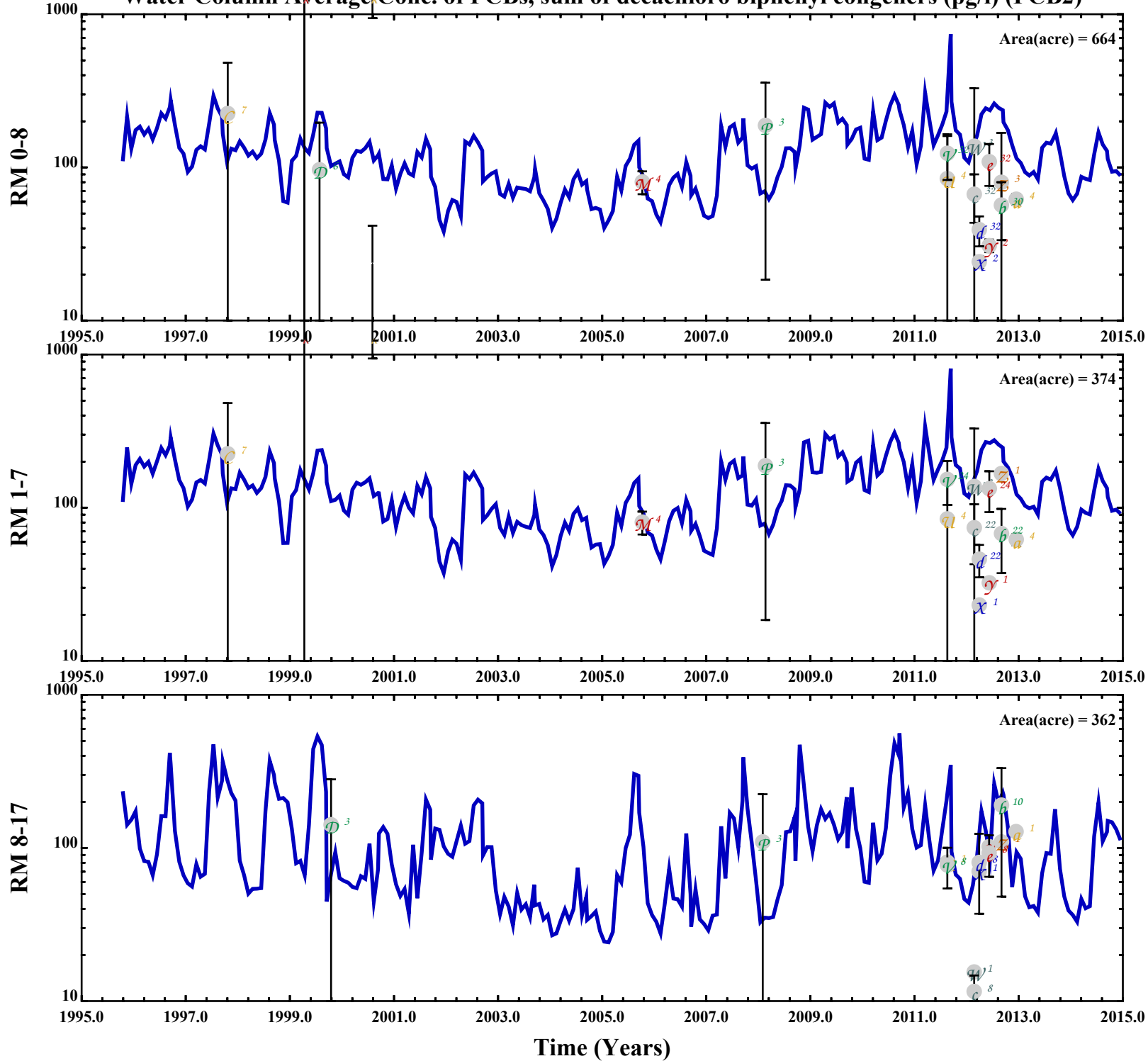
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of nonachloro biphenyl congeners (pg/l) (PCB2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 Newark Bay Reach ABCD Baseline Sampling
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up

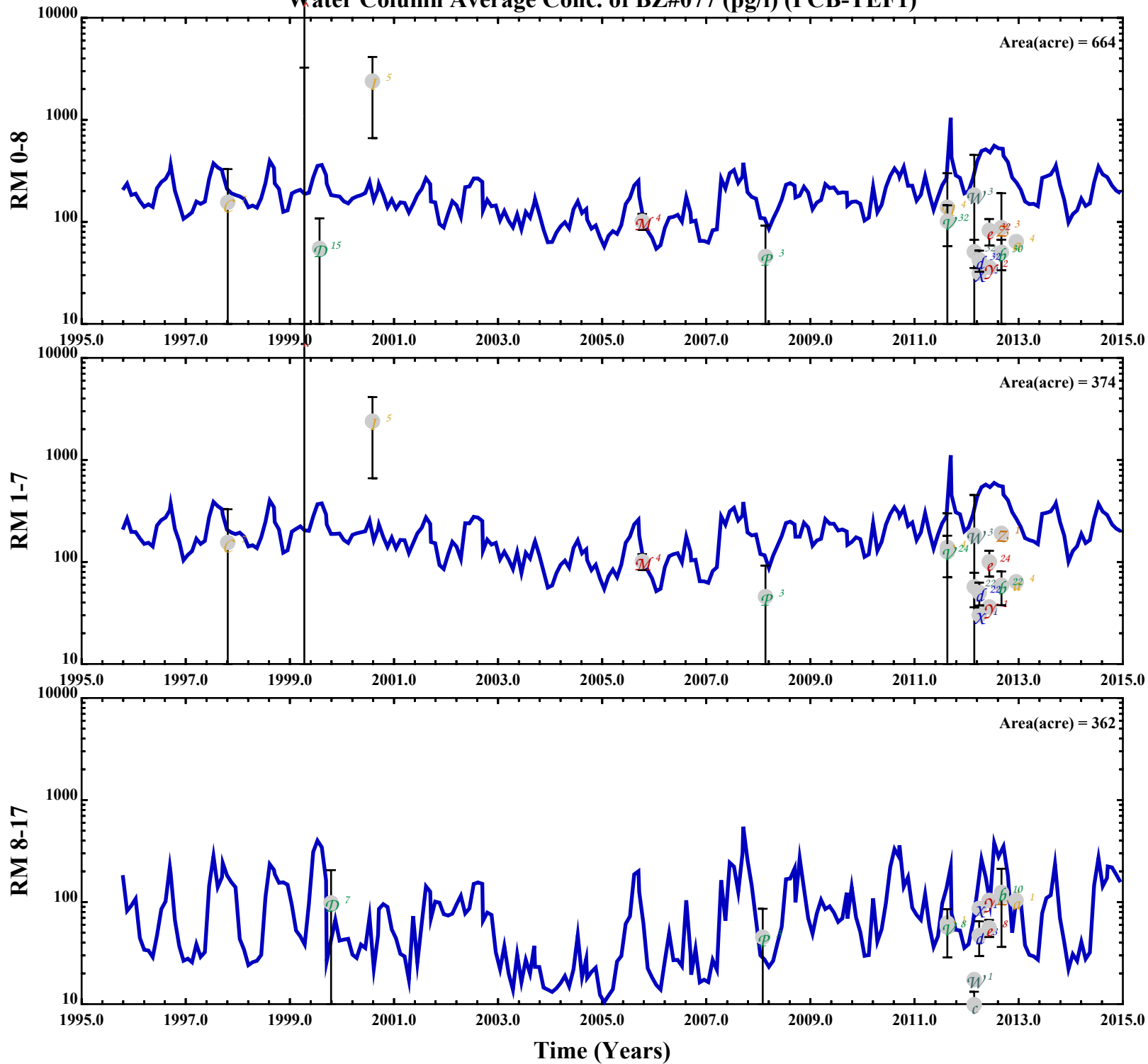
# Water Column Average Conc. of PCBs, sum of decachloro biphenyl congeners (pg/l) (PCB2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

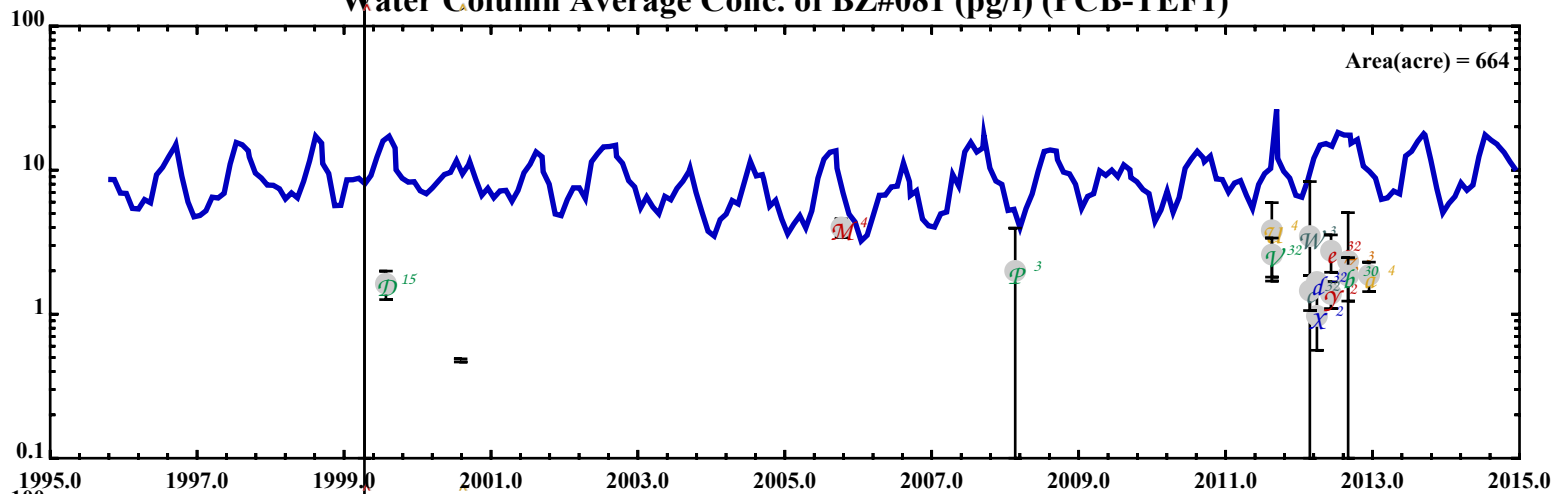
# Water Column Average Conc. of BZ#077 (pg/l) (PCB-TEF1)



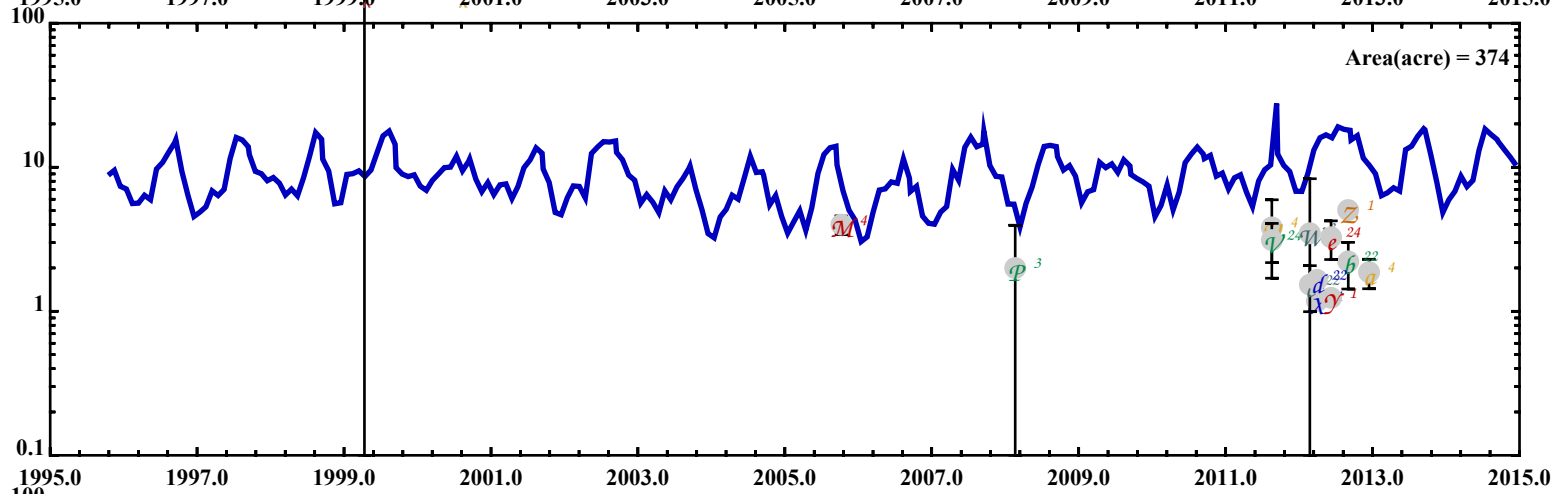
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 Newark Bay Reach ABCD Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#081 (pg/l) (PCB-TEF1)

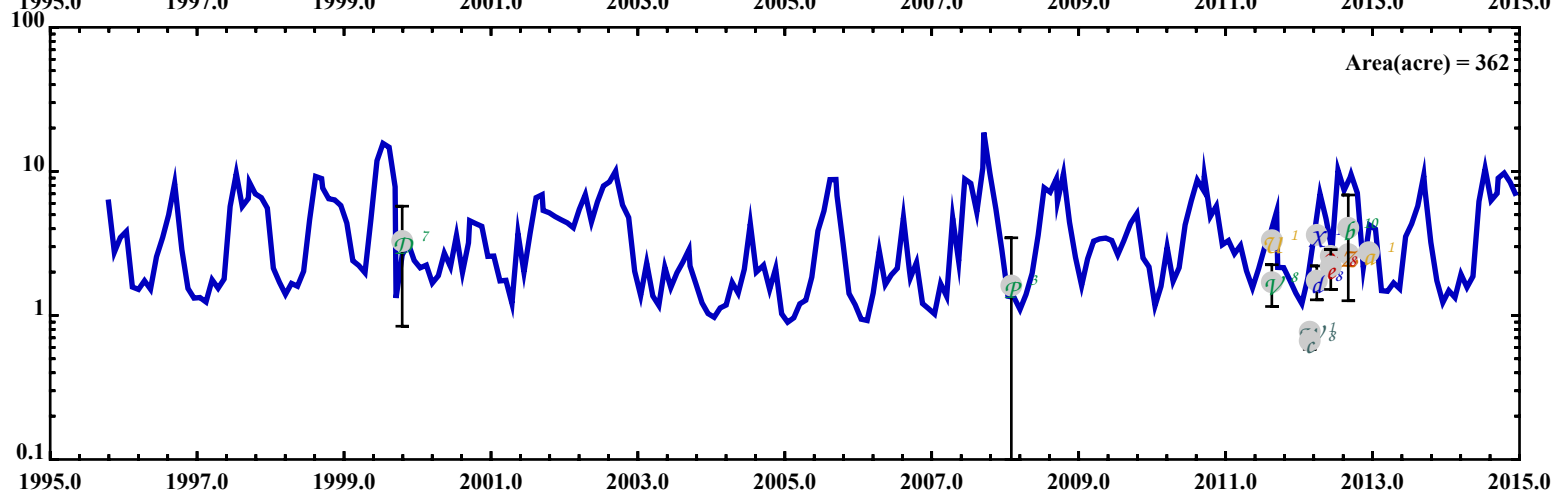
RM 0-8



RM 1-7



RM 8-17

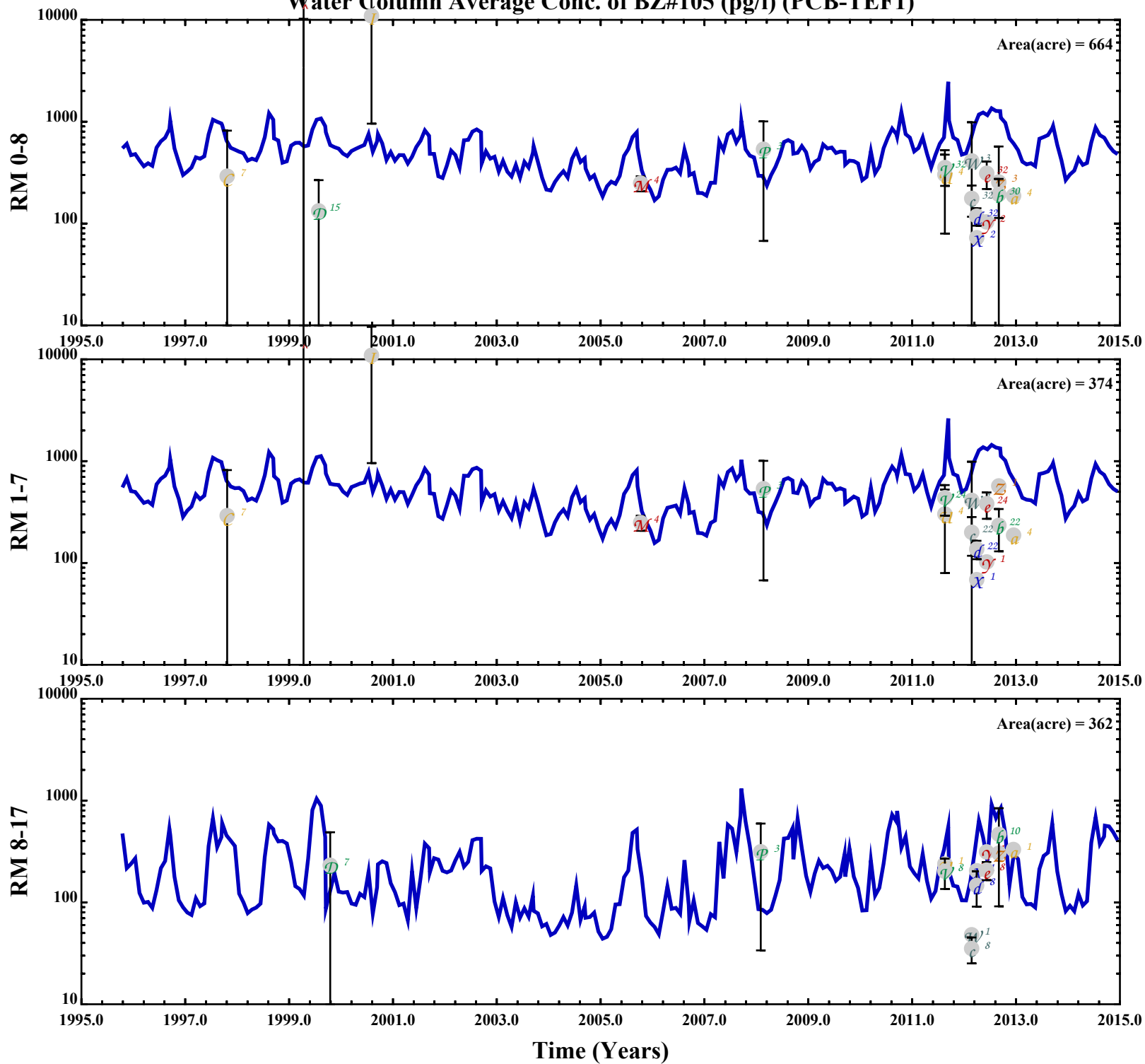


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

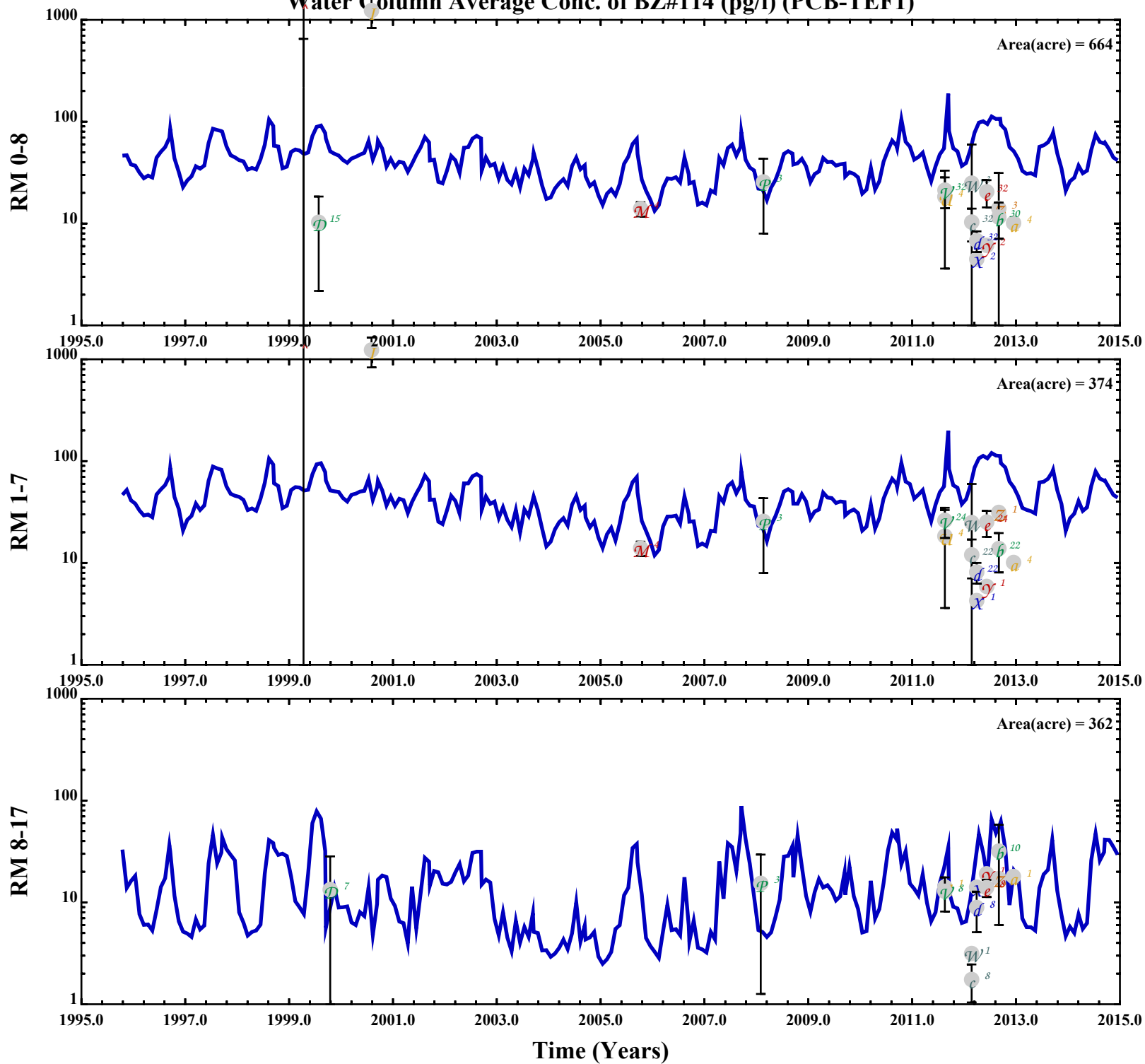
# Water Column Average Conc. of BZ#105 (pg/l) (PCB-TEF1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

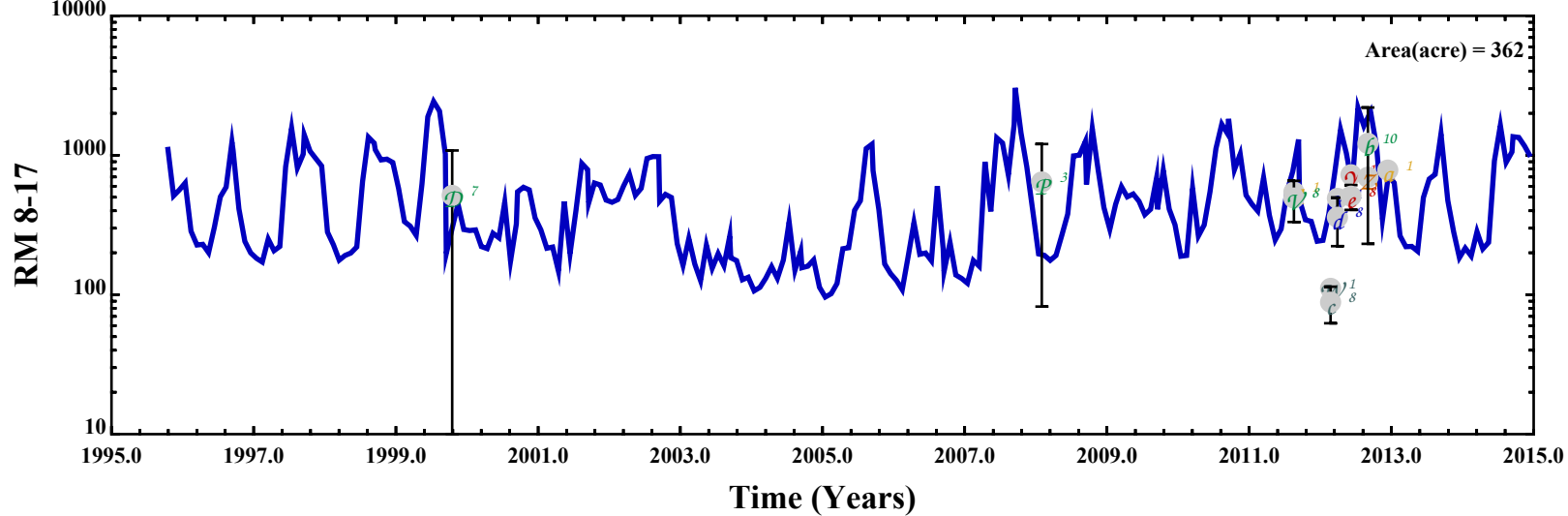
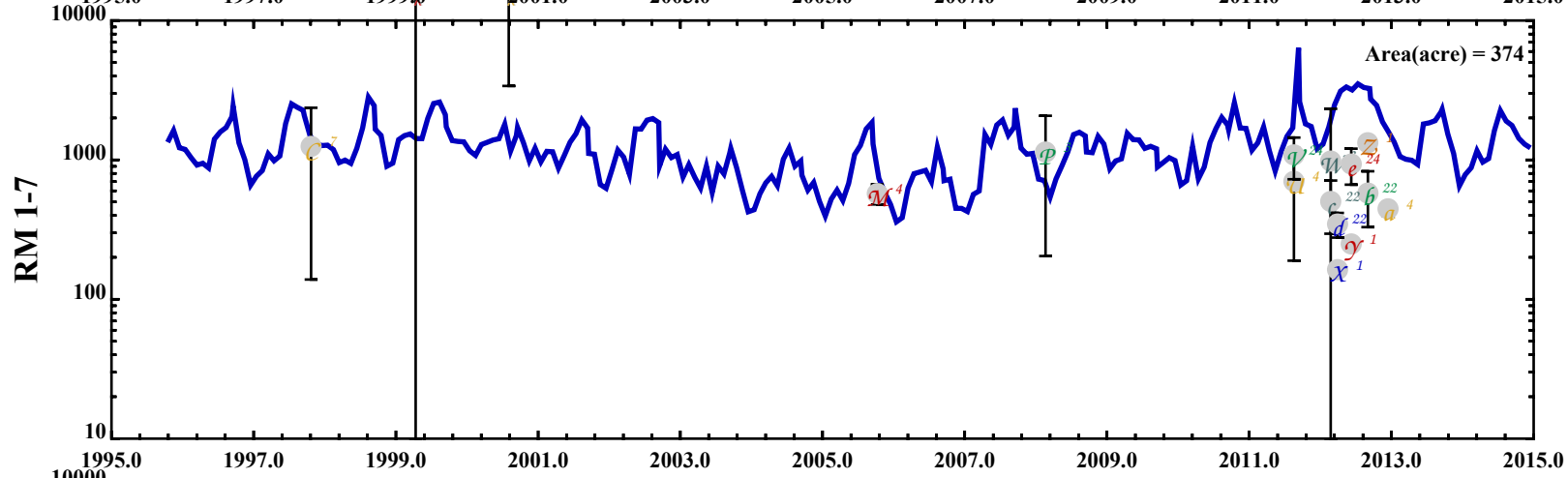
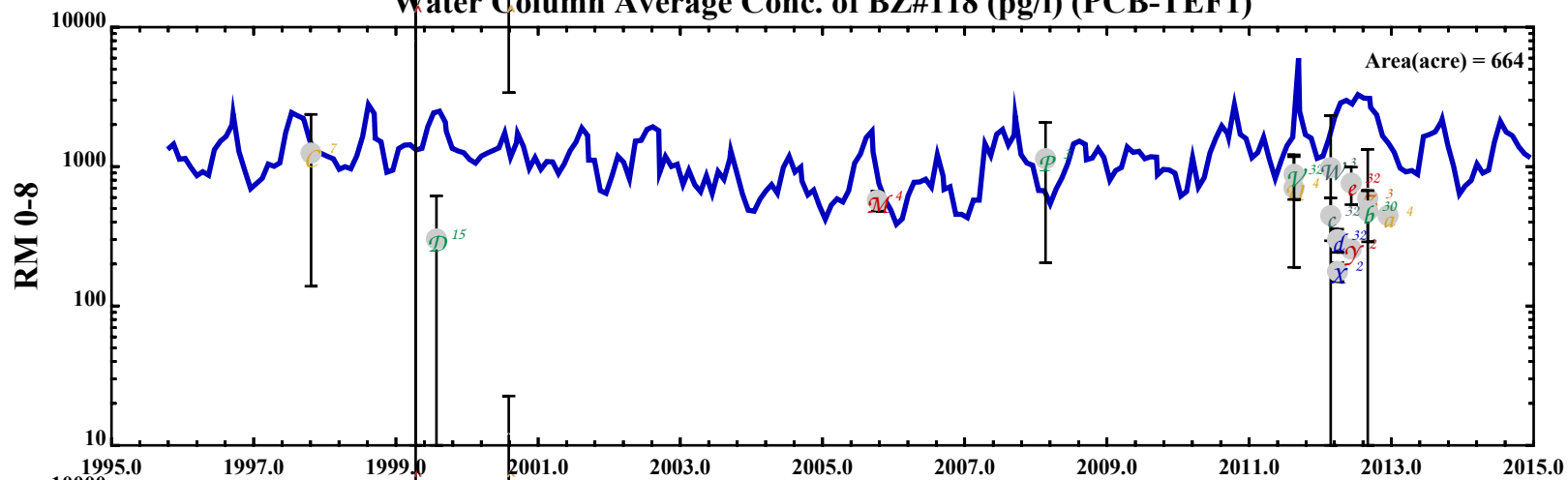
# Water Column Average Conc. of BZ#114 (pg/l) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 Newark Bay Reach ABCD Baseline Sampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up



# Water Column Average Conc. of BZ#118 (pg/l) (PCB-TEF1)

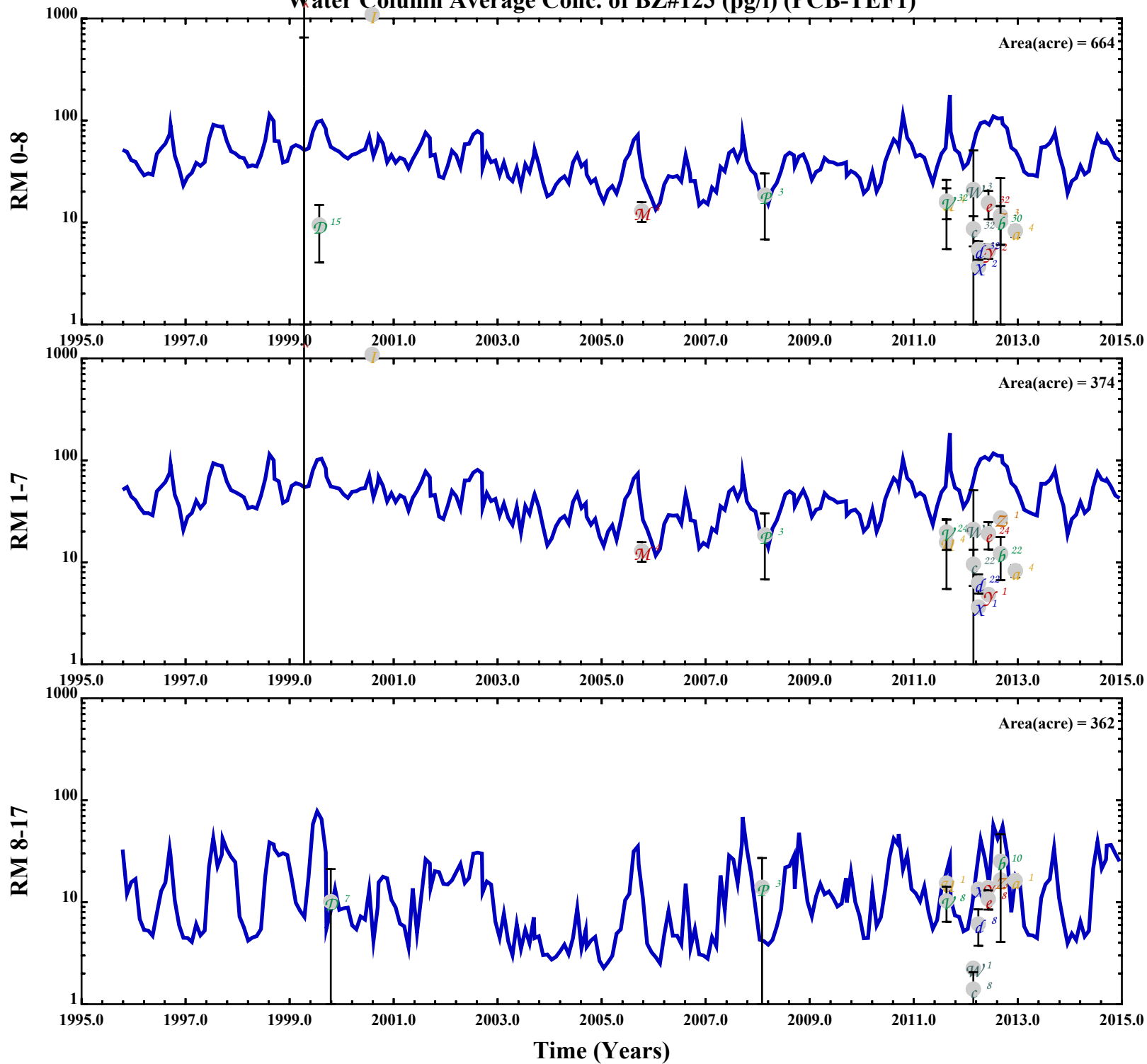


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 USEPA LBG-CDM PWCM Oversight
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 CPG LPR-NB PWCM Field Measurements
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

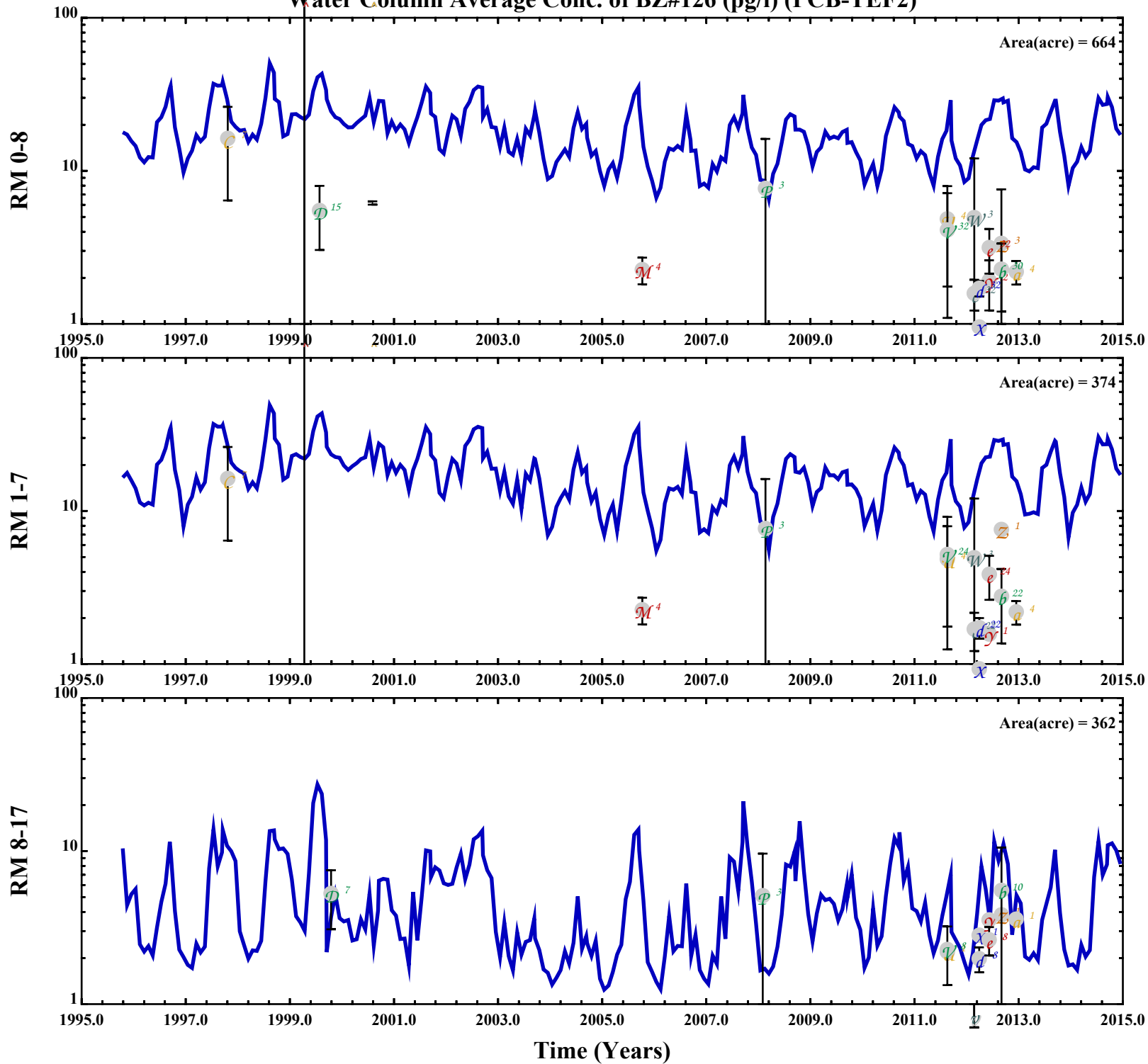
# Water Column Average Conc. of BZ#123 (pg/l) (PCB-TEF1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 NewarkBay ReachABCDFieldMeasurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

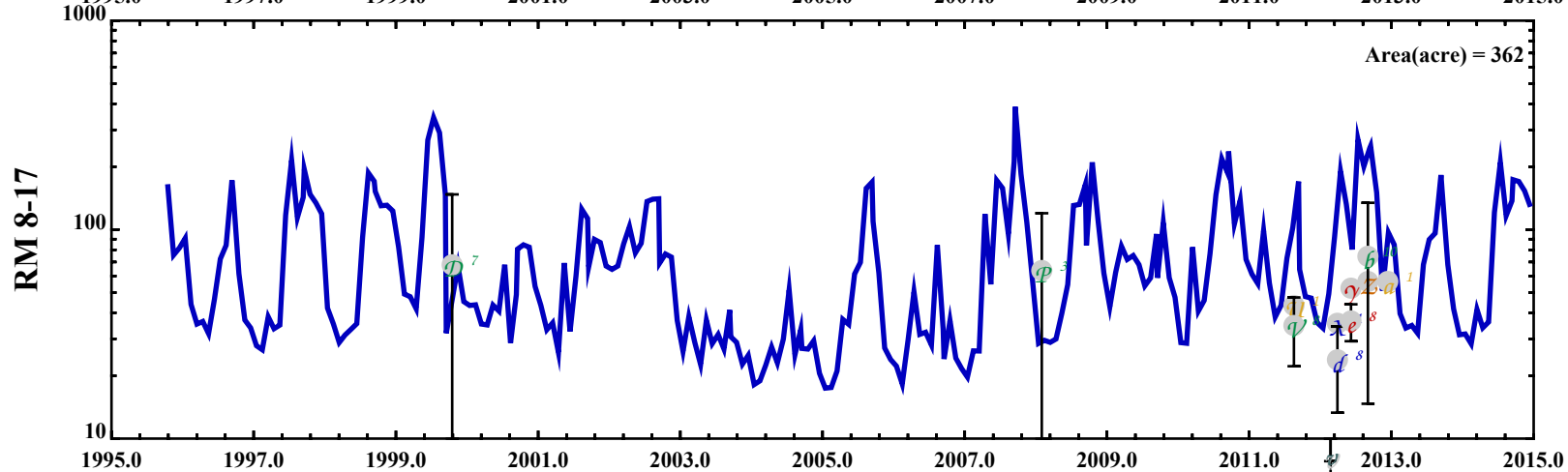
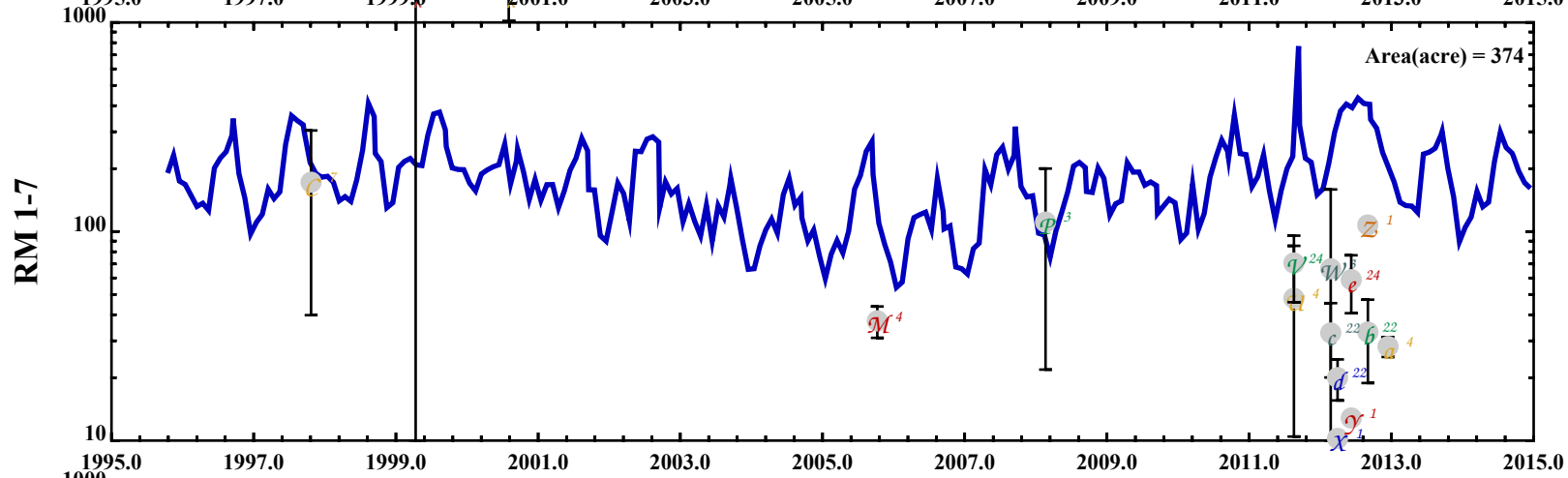
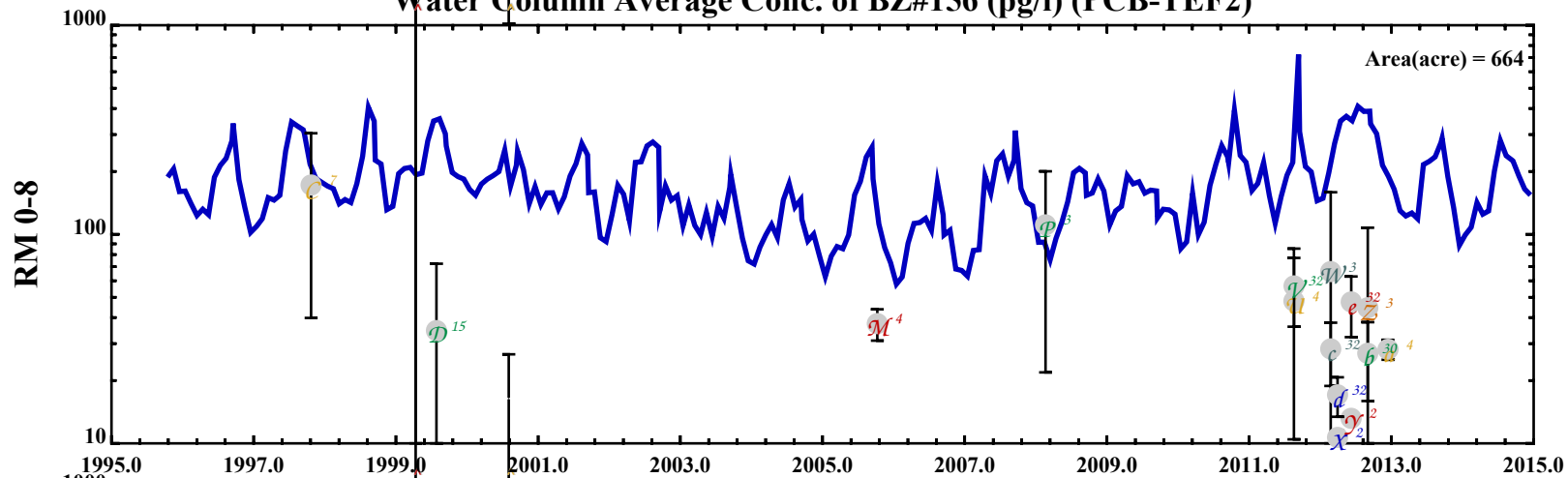
# Water Column Average Conc. of BZ#126 (pg/l) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#156 (pg/l) (PCB-TEF2)

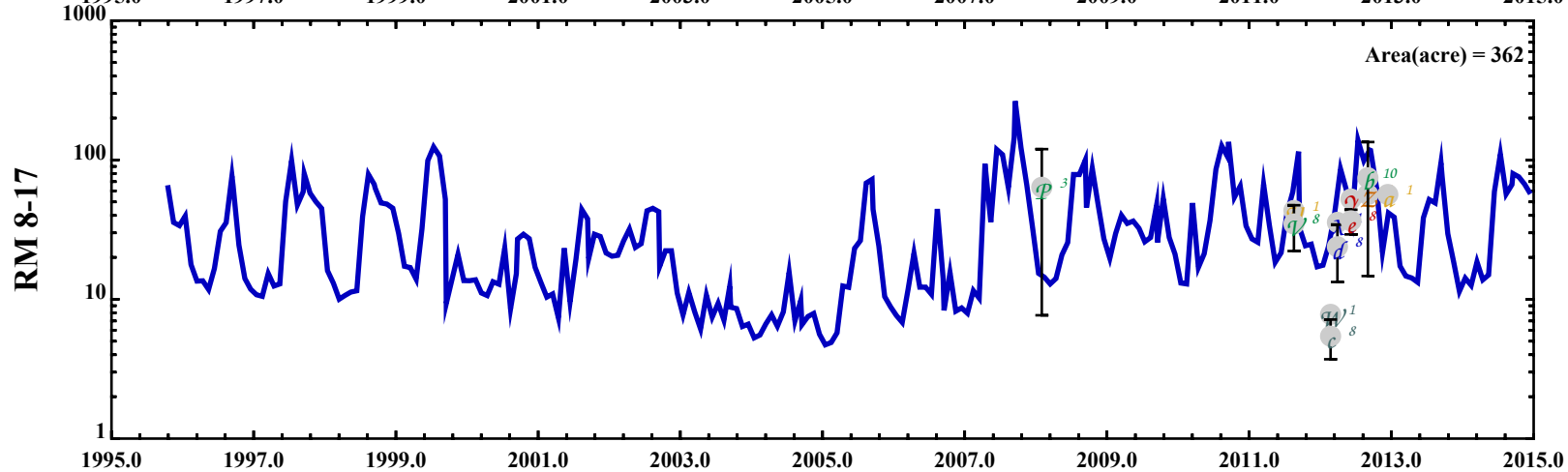
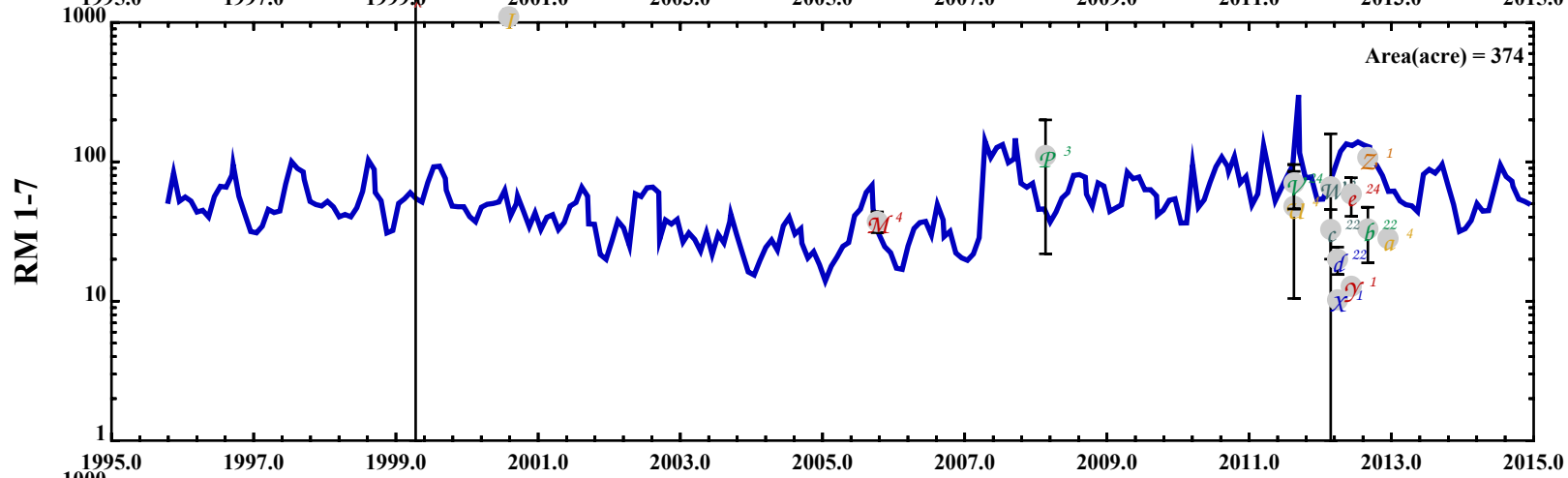
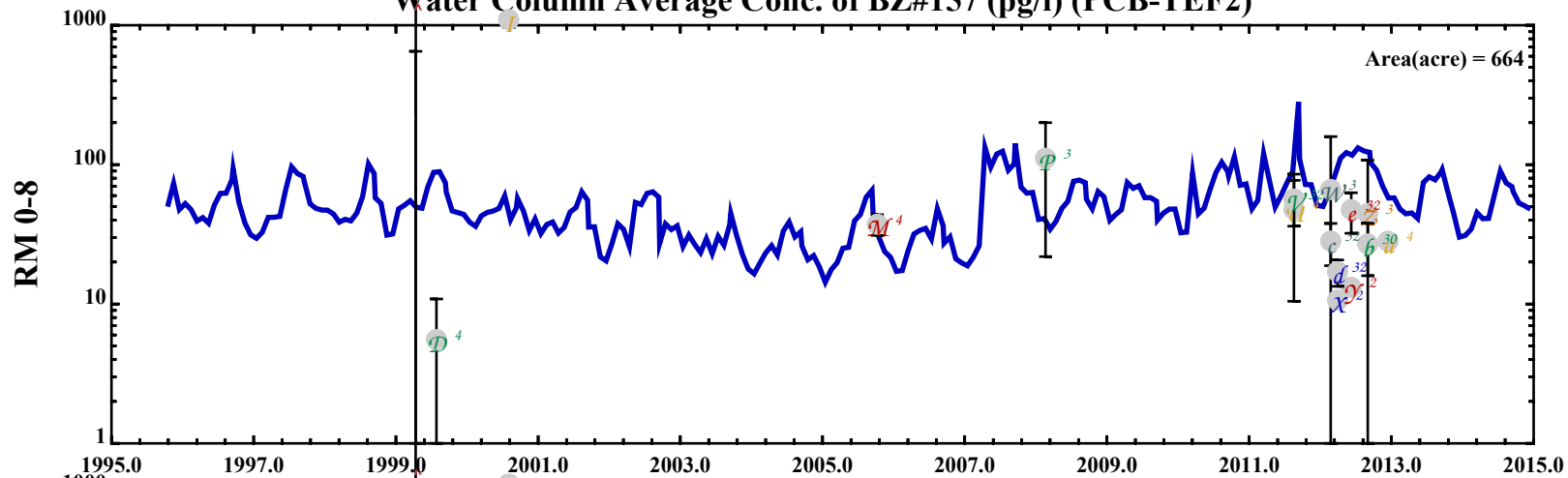


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBayReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#157 (pg/l) (PCB-TEF2)

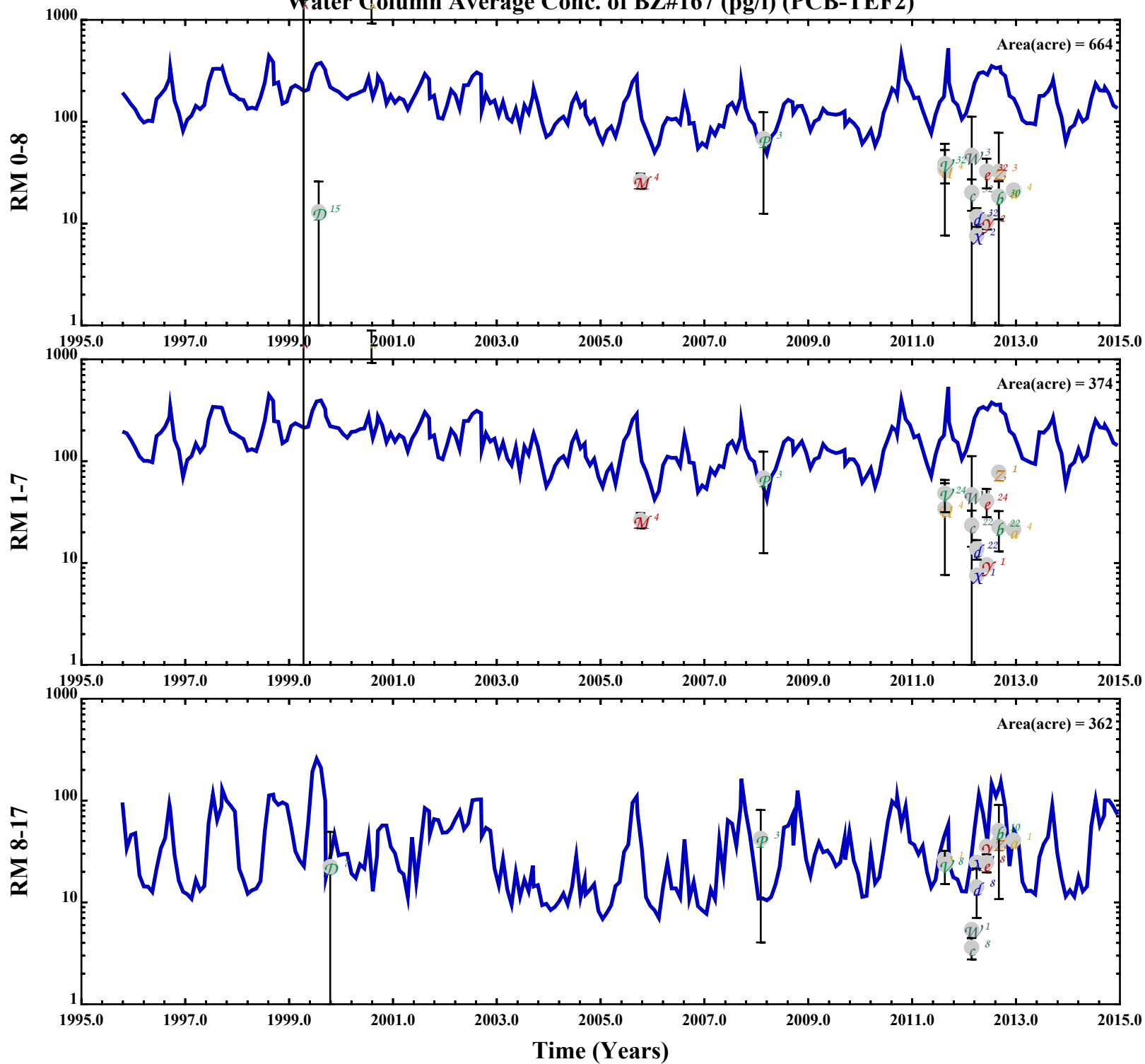


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#167 (pg/l) (PCB-TEF2)

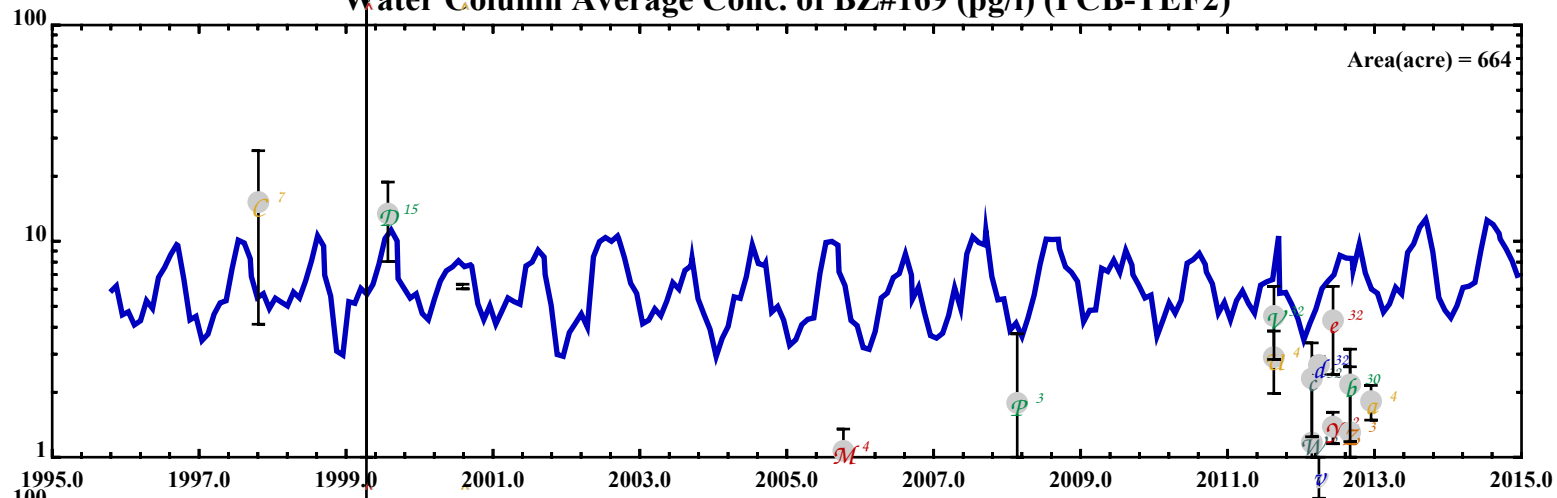


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

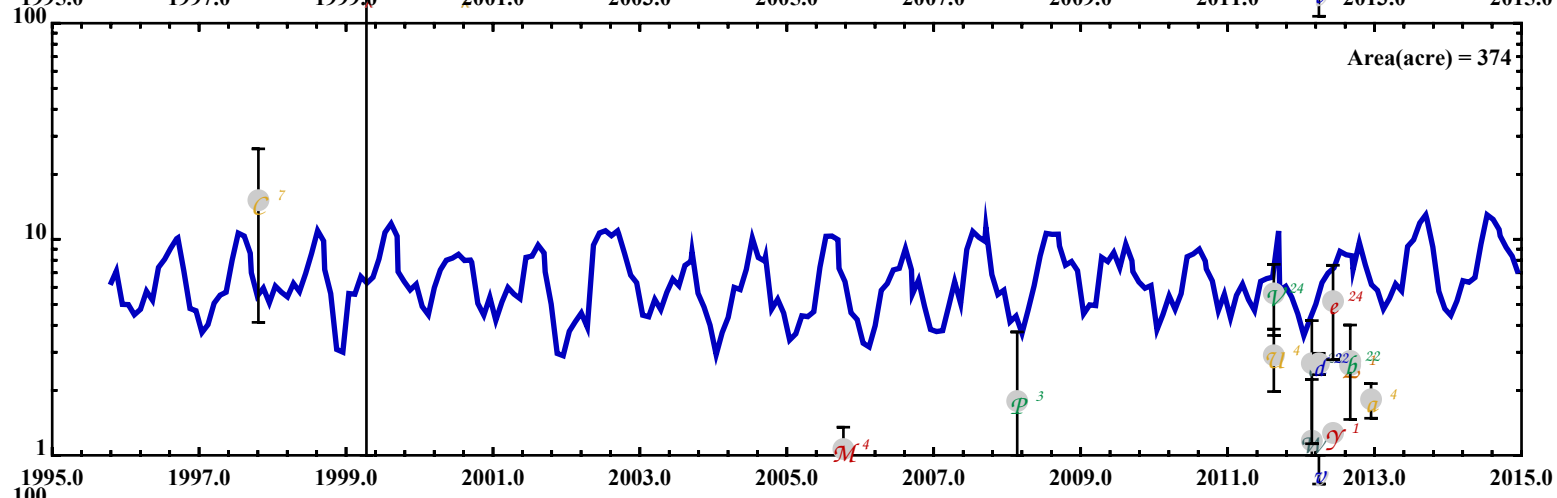
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#169 (pg/l) (PCB-TEF2)

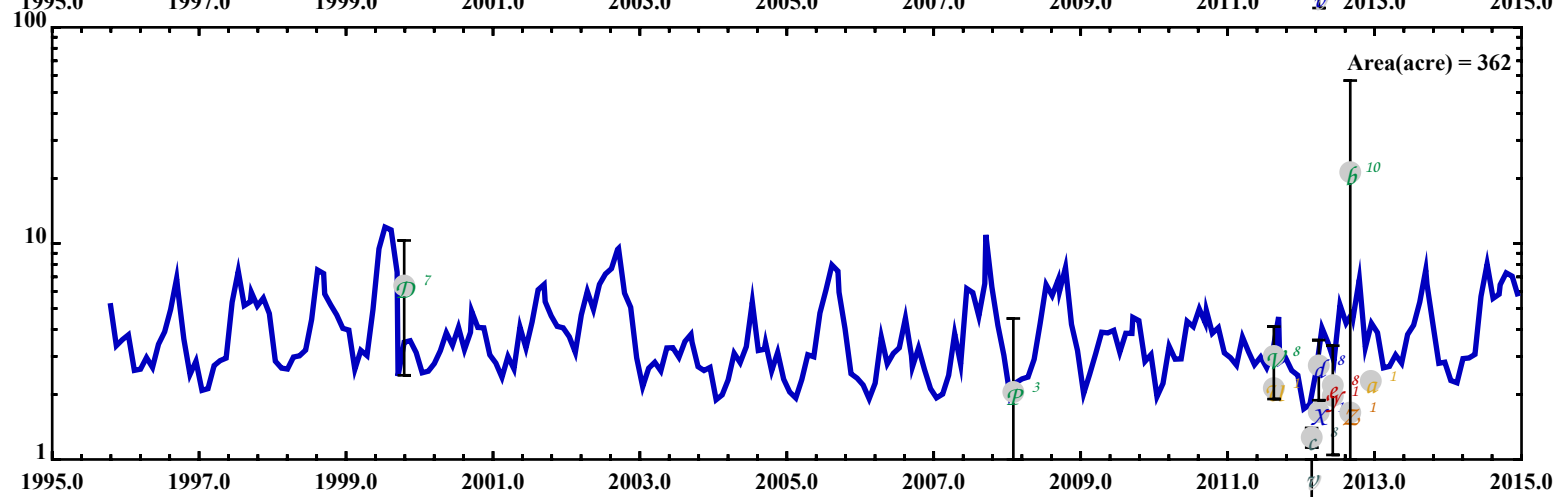
RM 0-8



RM 1-7



RM 8-17



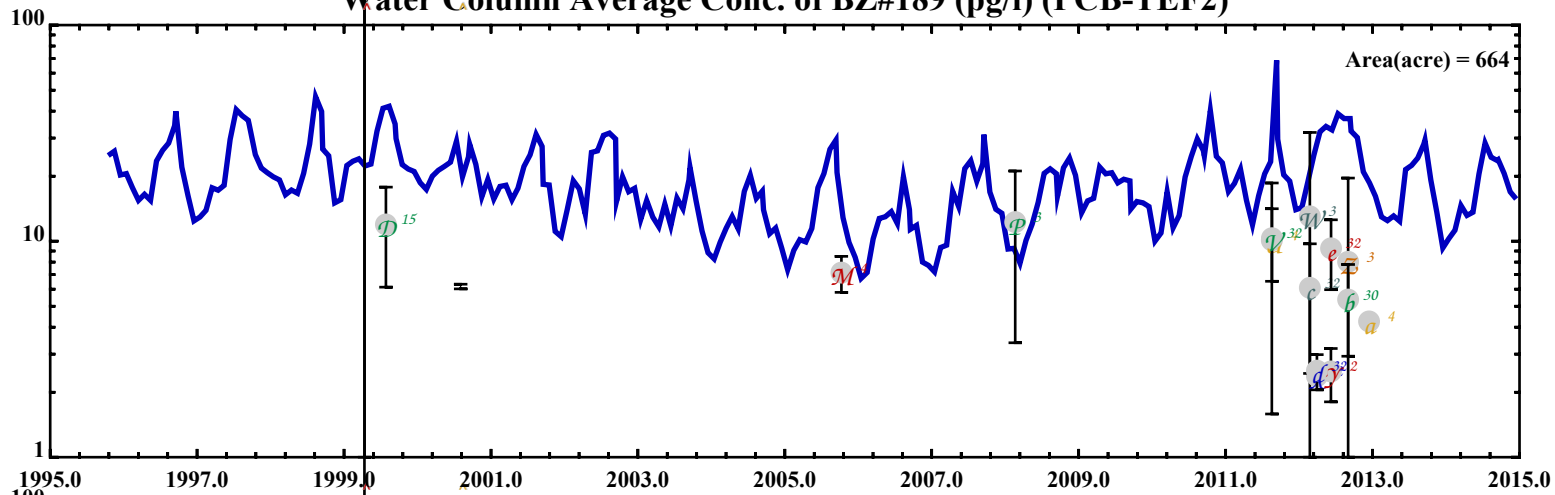
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

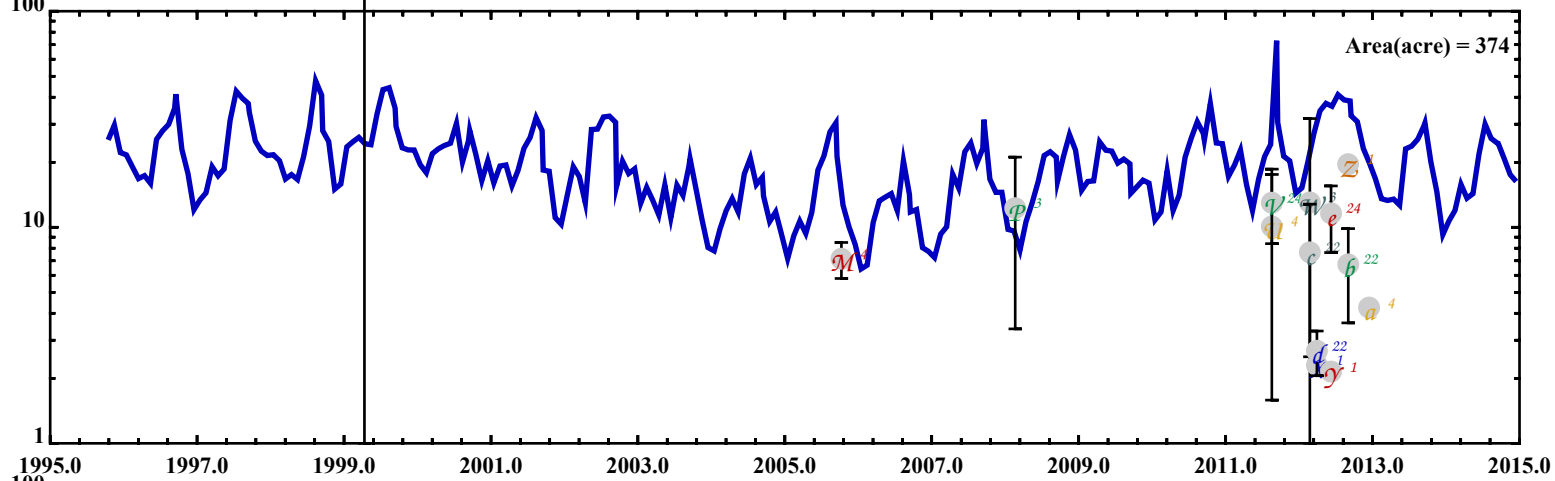
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#189 (pg/l) (PCB-TEF2)

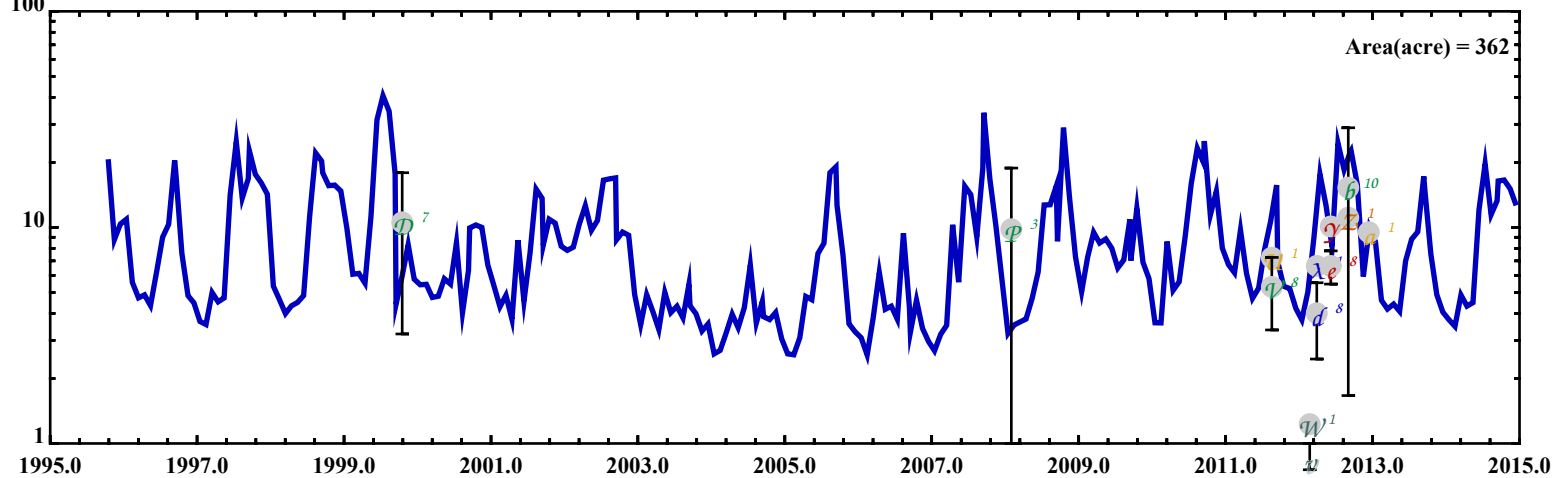
RM 0-8



RM 1-7



RM 8-17



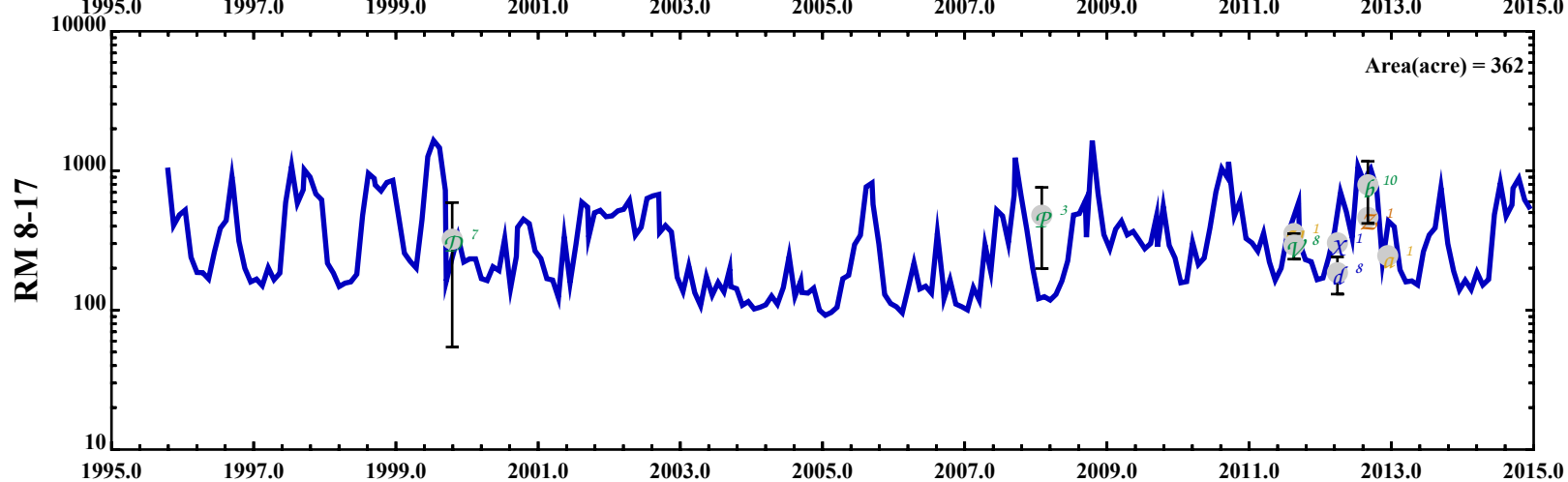
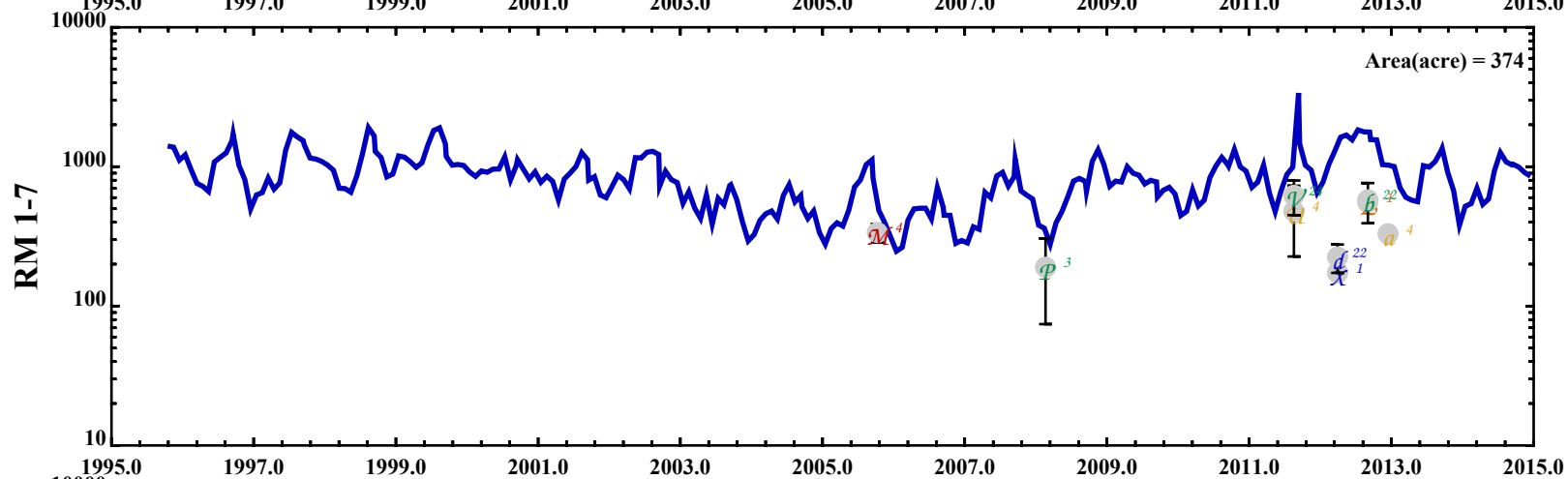
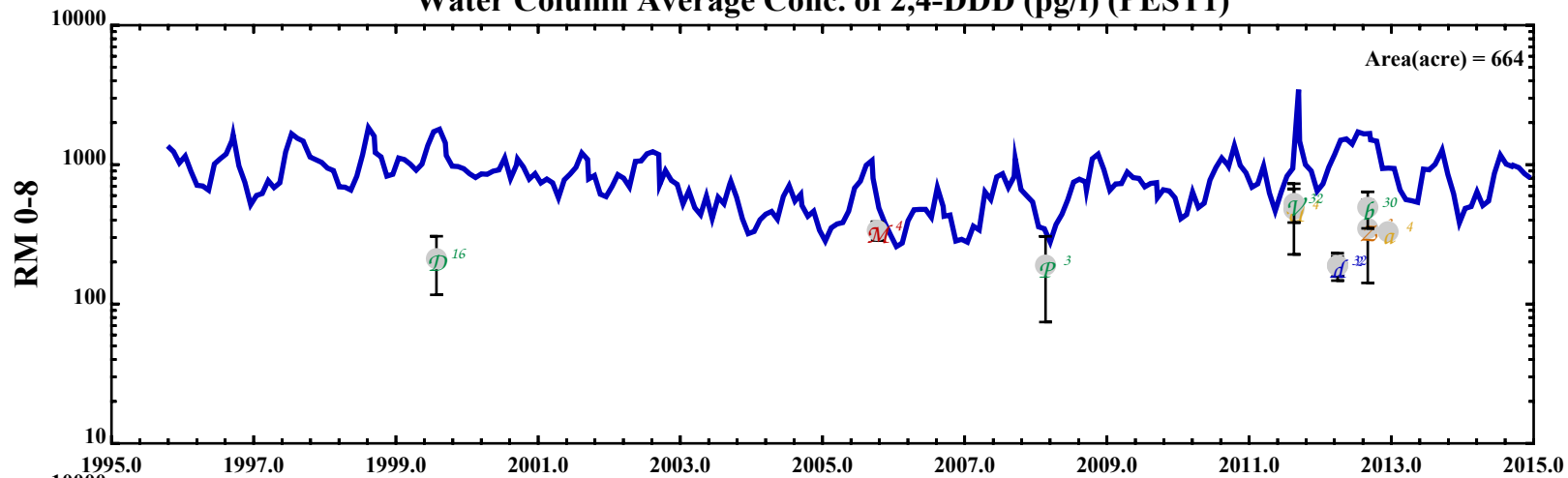
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



# Water Column Average Conc. of 2,4-DDD (pg/l) (PEST1)

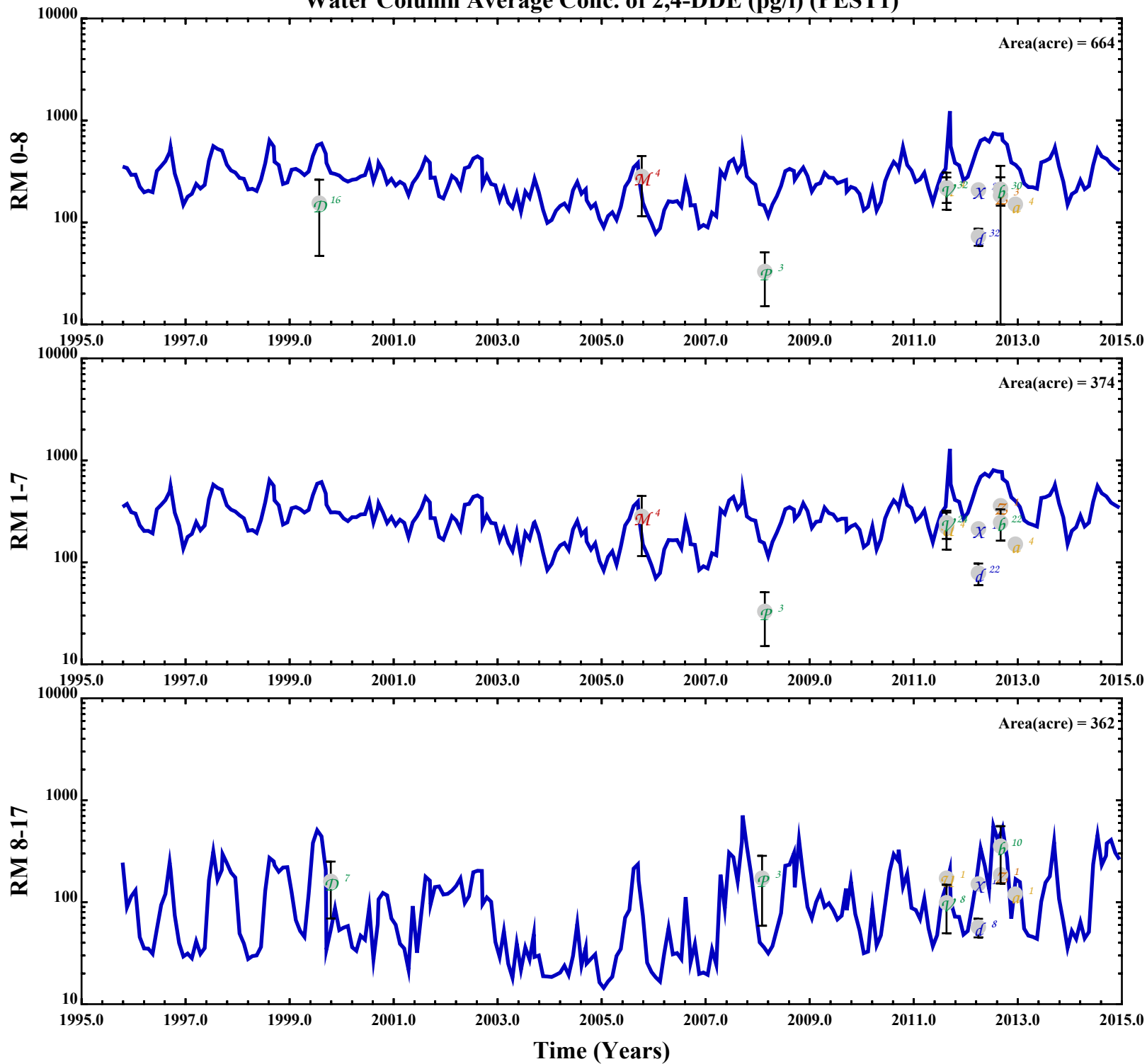


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- J 2005 Hydrodynamic Mooring
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 1999 Newark Bay Reach ABCD Baseline Sampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- V 2011 CPG CWCM Sampling Data
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- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

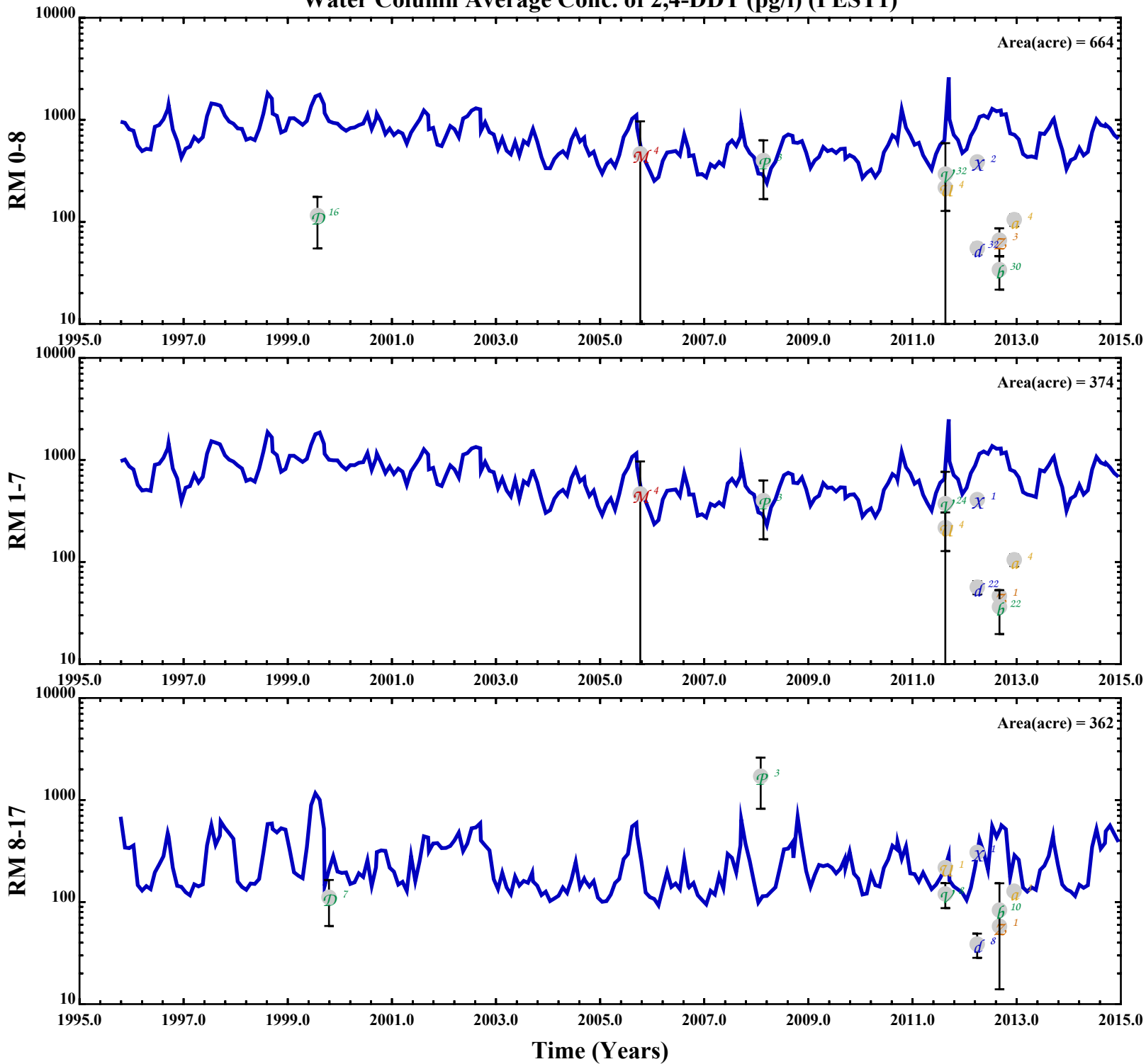
# Water Column Average Conc. of 2,4-DDE (pg/l) (PEST1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- P 2007 USEPA-MPI-EMBM Water Column Sample
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

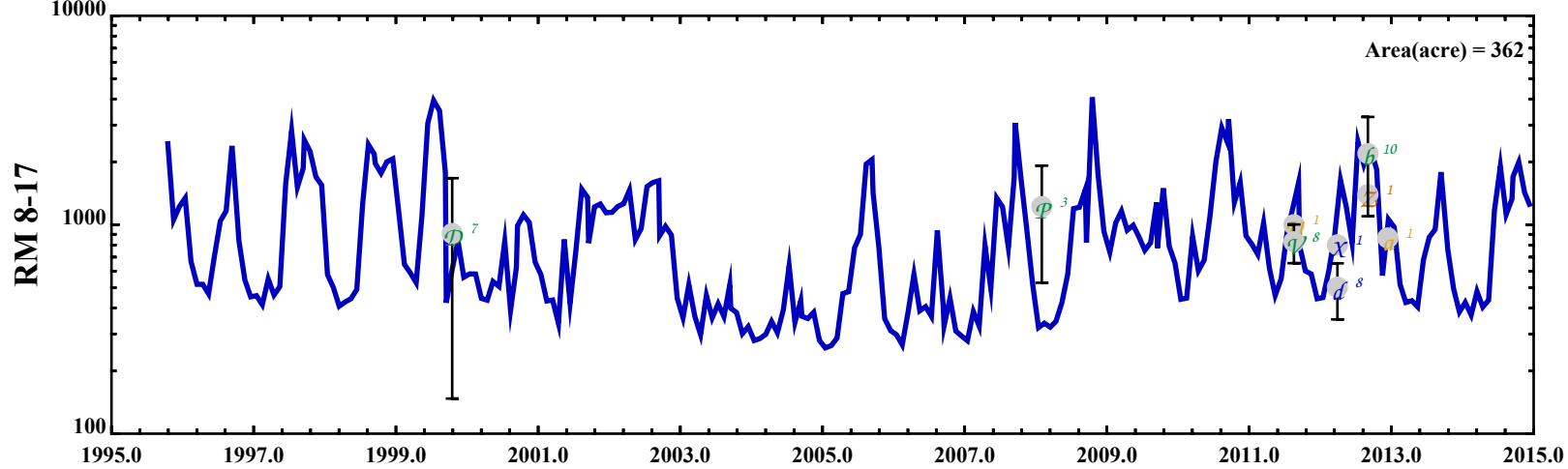
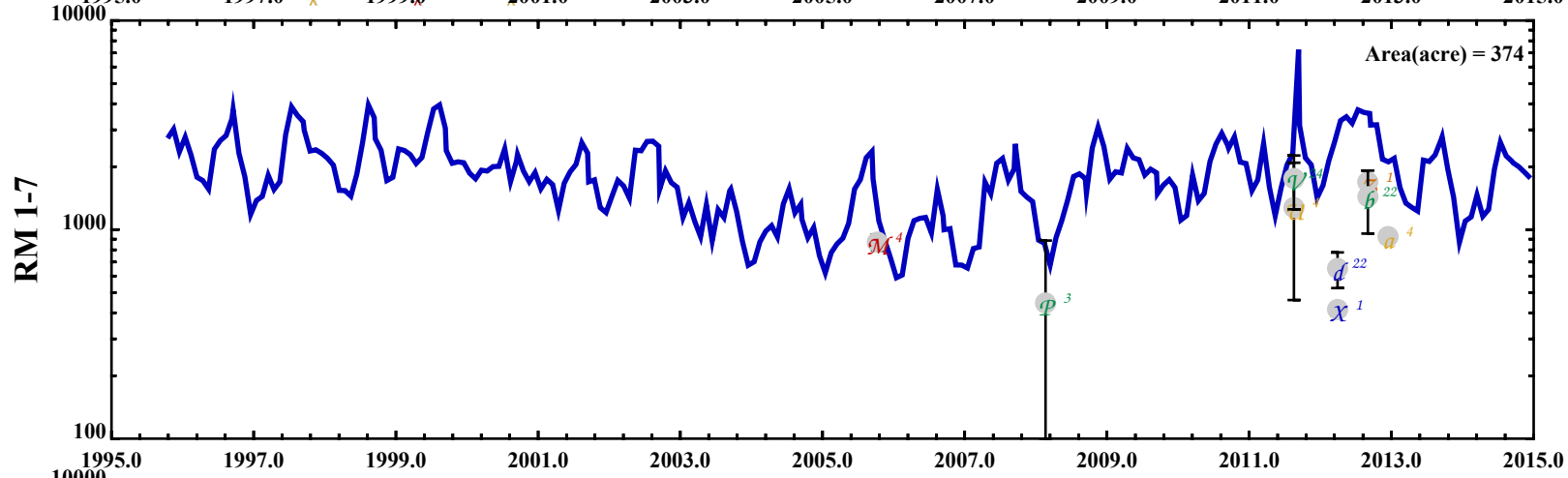
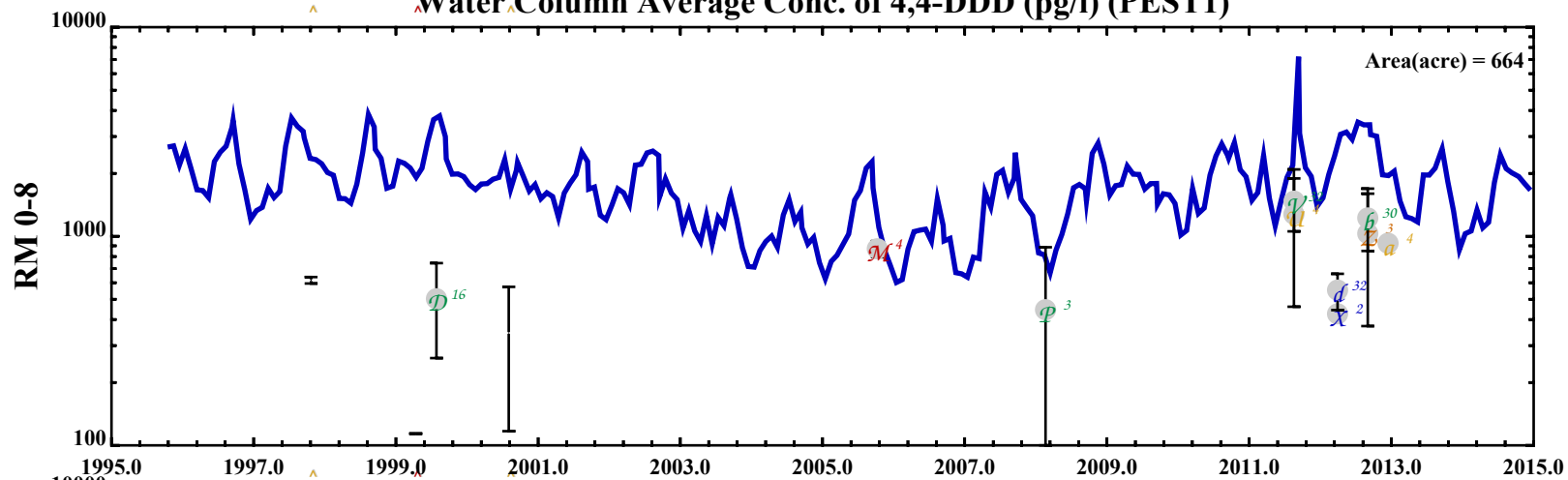
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,4-DDT (pg/l) (PEST1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
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  - J 2005 Hydrodynamic Mooring
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  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 4,4-DDD (pg/l) (PEST1)

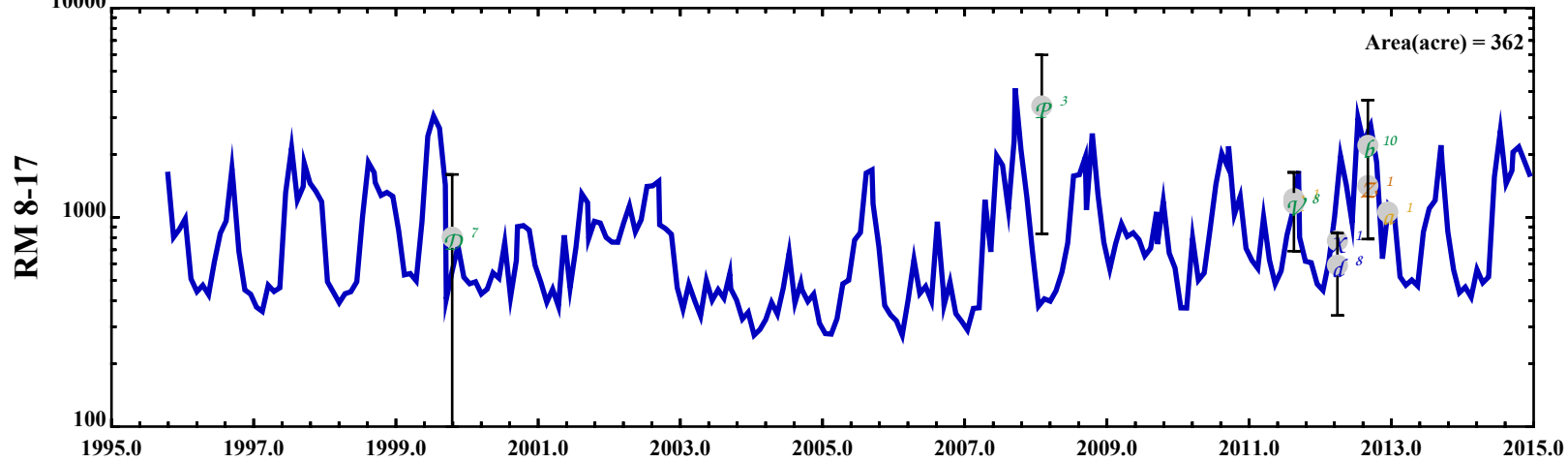
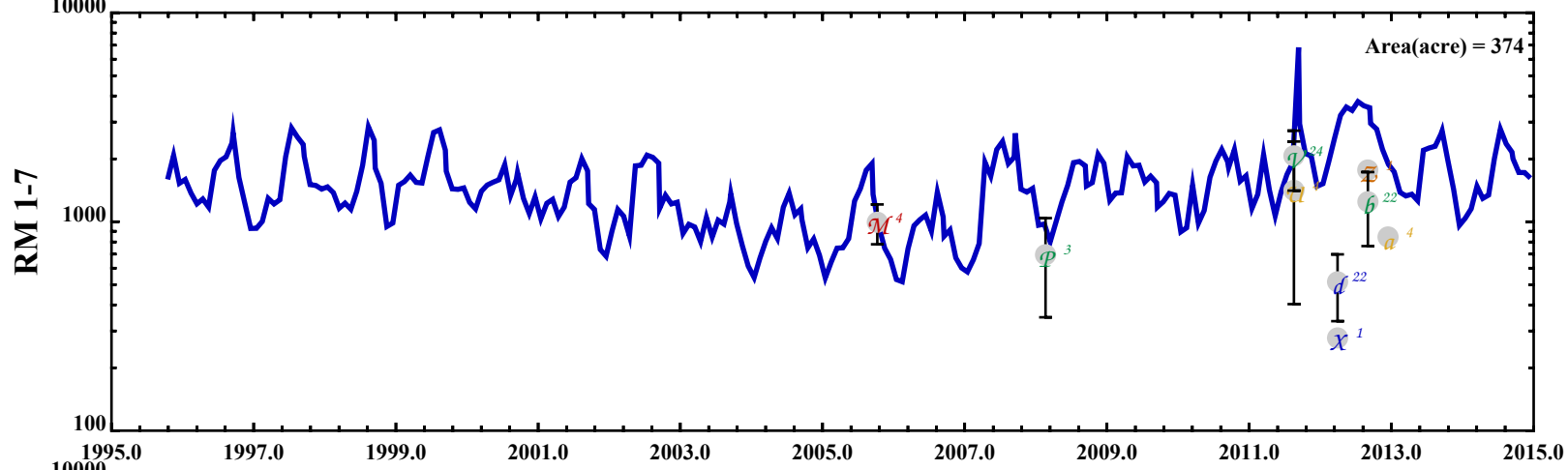
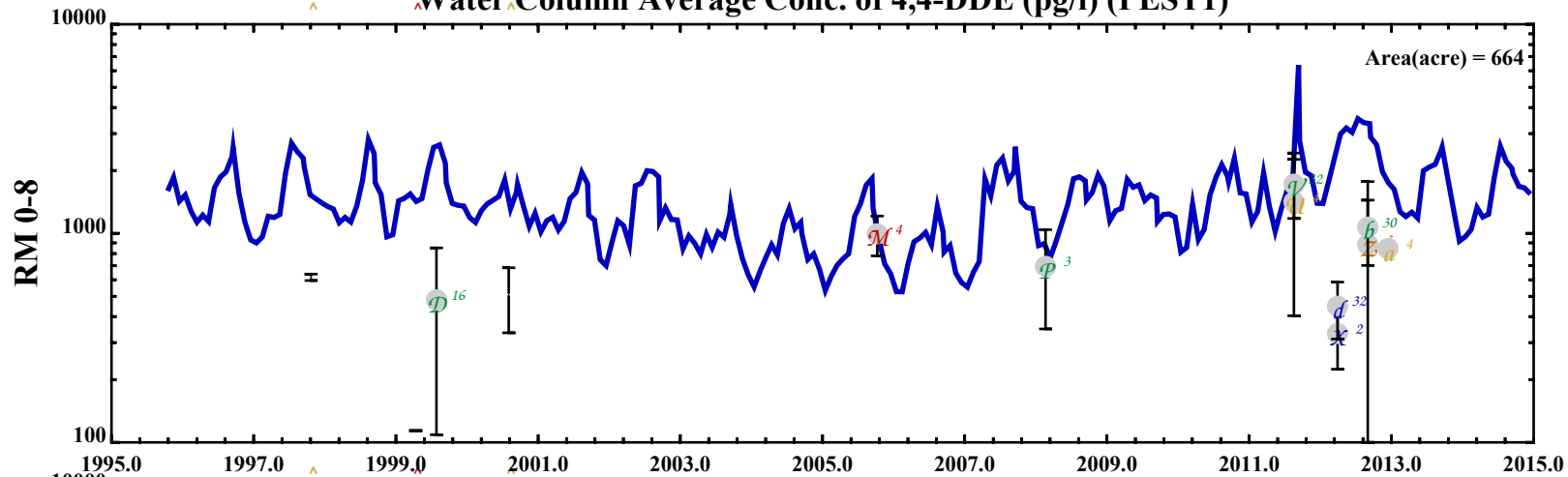


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- P 2007 USEPA-MPI-EMBM Water Column Sample
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- W 2012 CDM Smith CWCM Sampling - Round 2
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 4,4-DDE (pg/l) (PEST1)

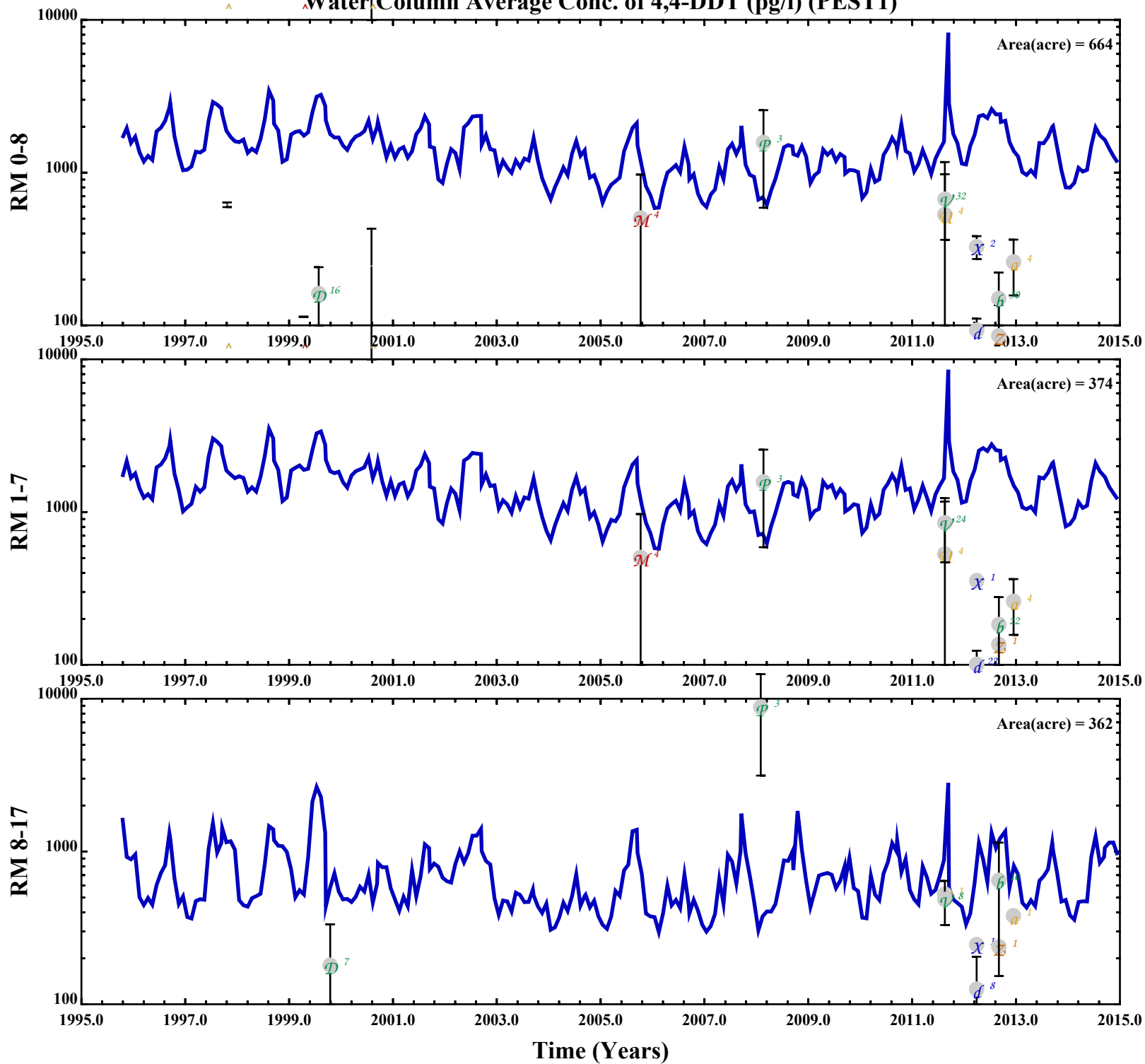


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

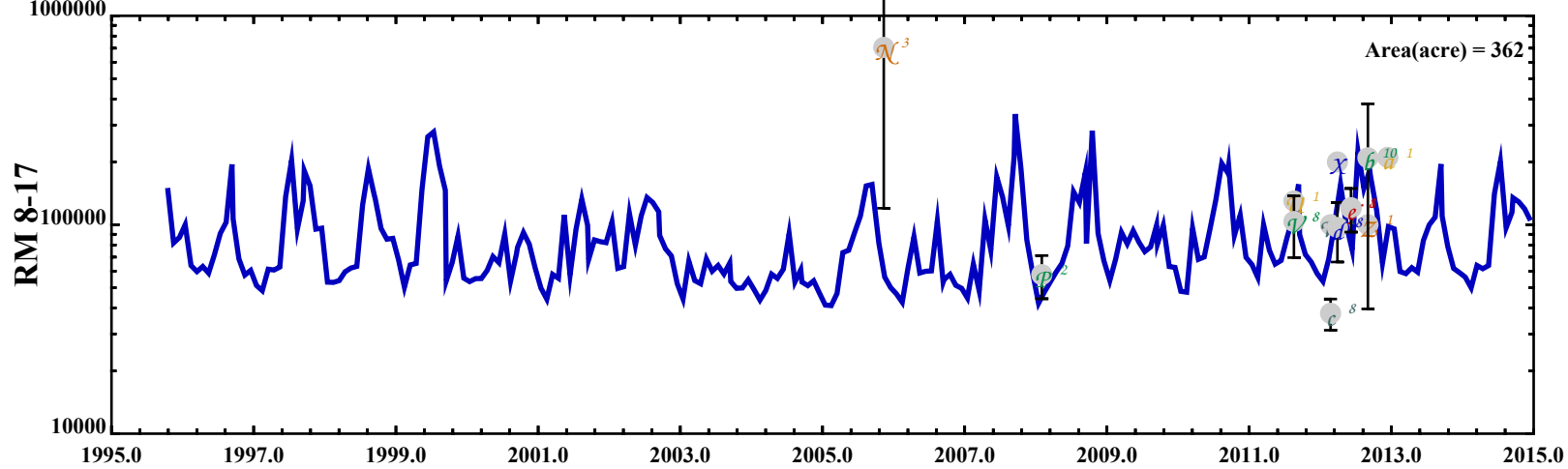
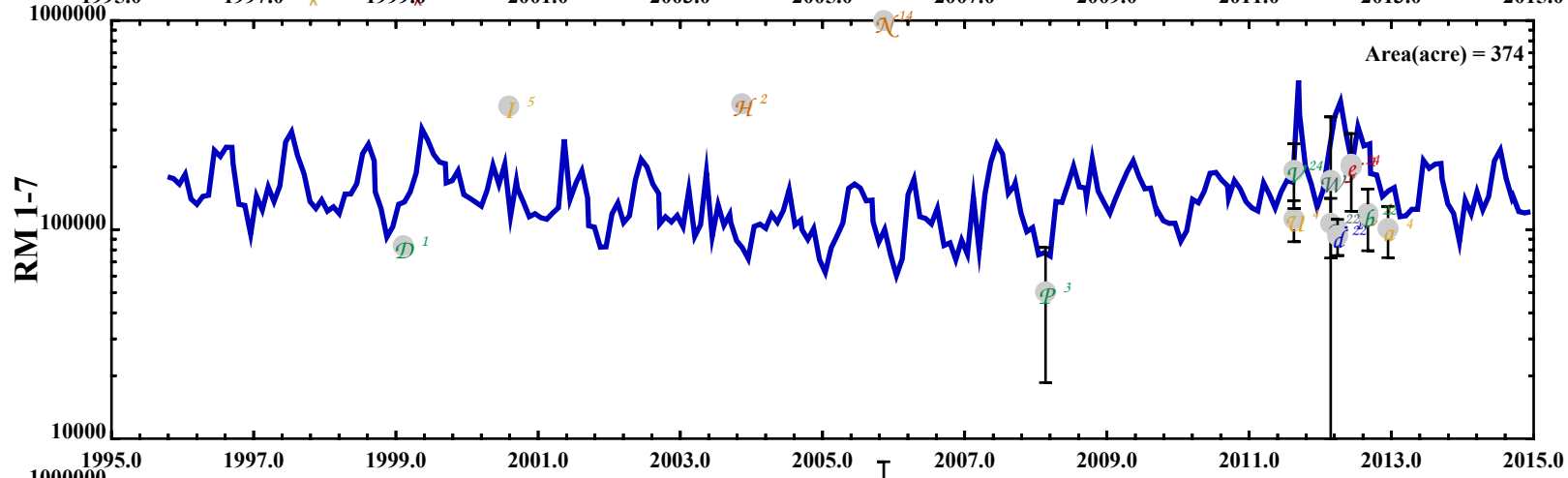
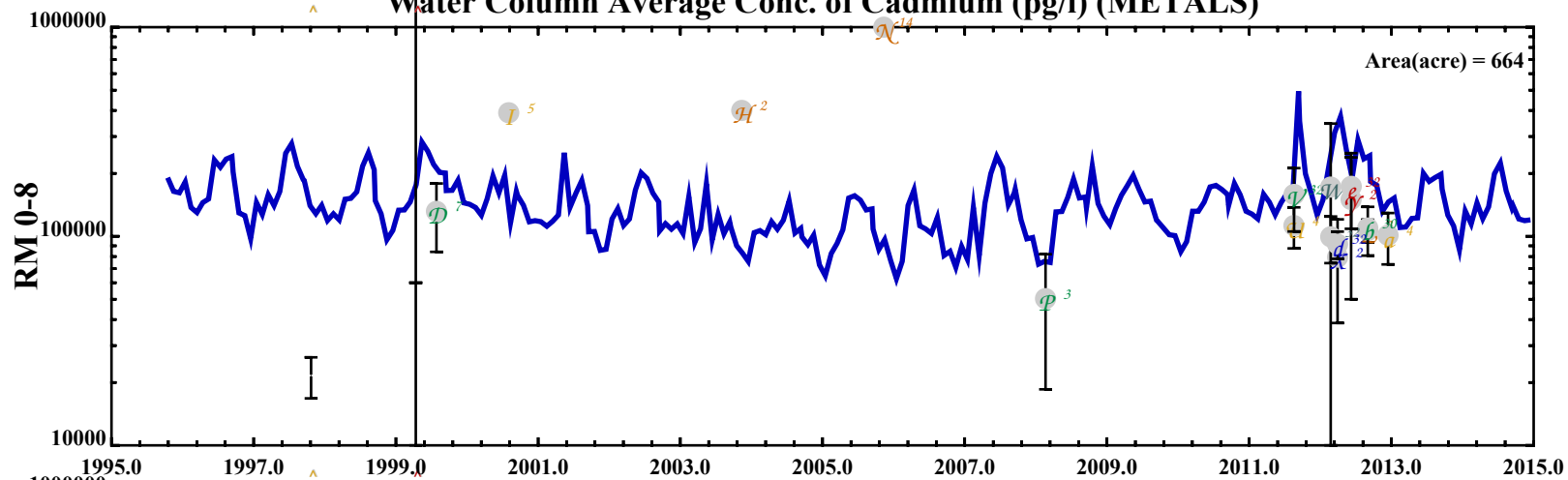
# Water Column Average Conc. of 4,4-DDT (pg/l) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
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- H* 1999-2006 Honeywell Intl Sampling
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- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 NewarkBay ReachABCDBaselineSampling
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
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- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of Cadmium (pg/l) (METALS)

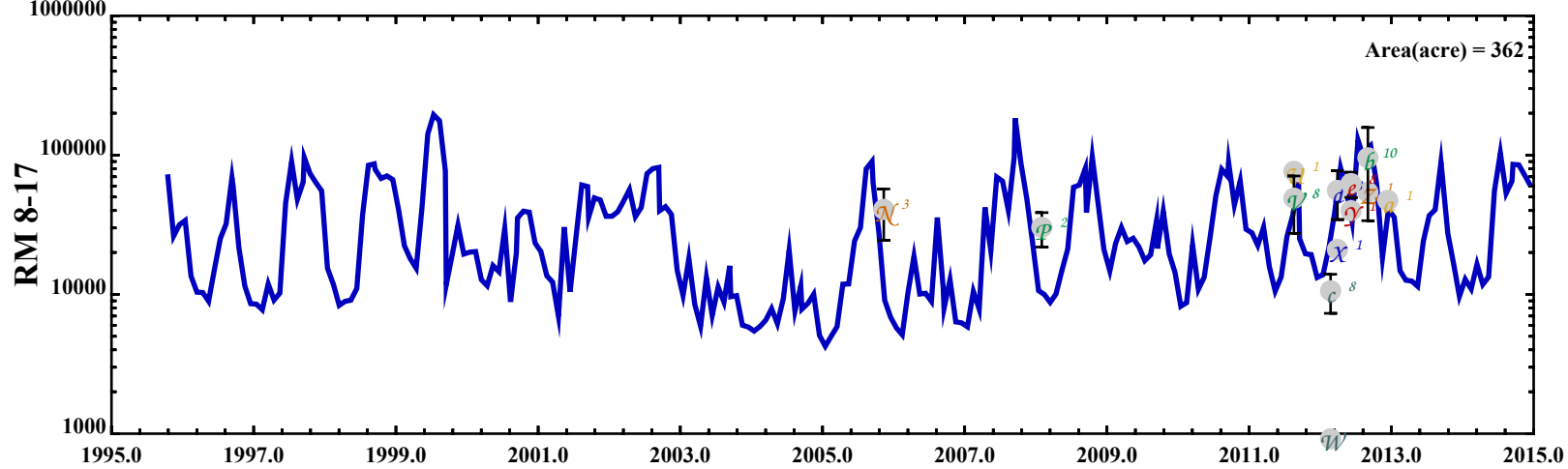
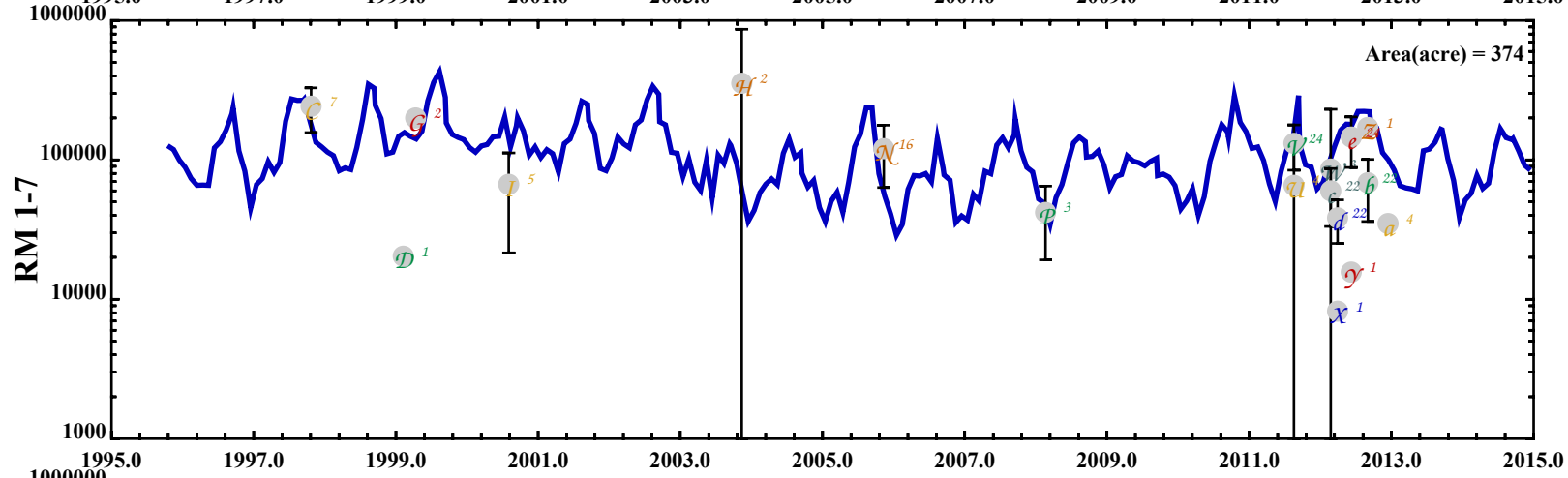
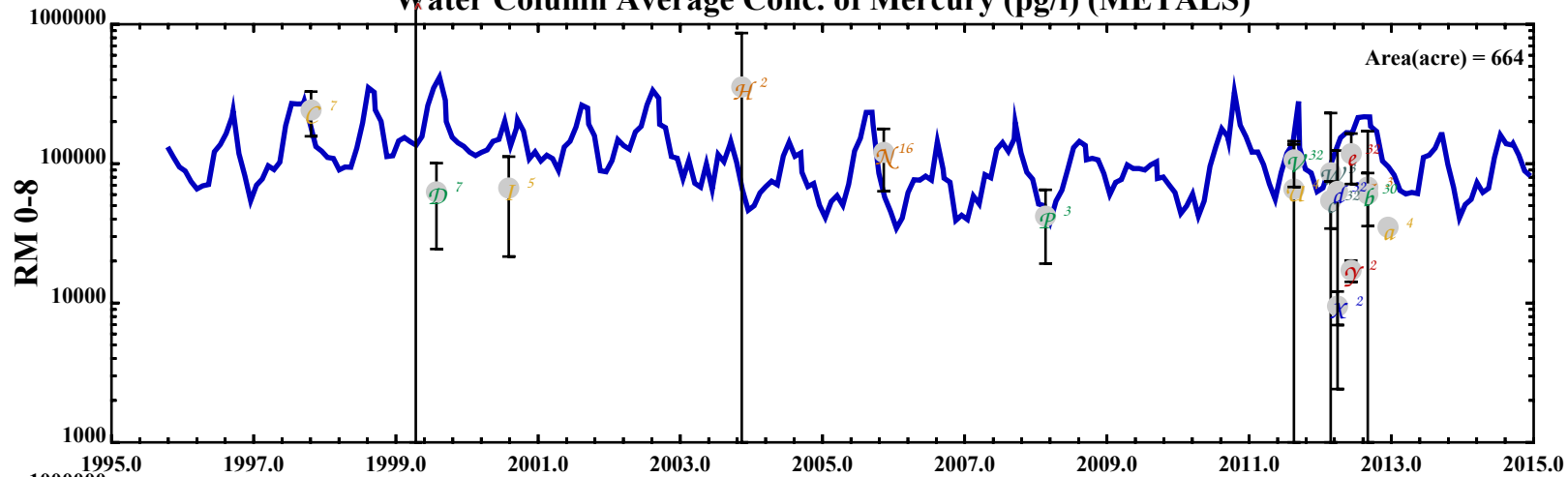


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of Mercury (pg/l) (METALS)



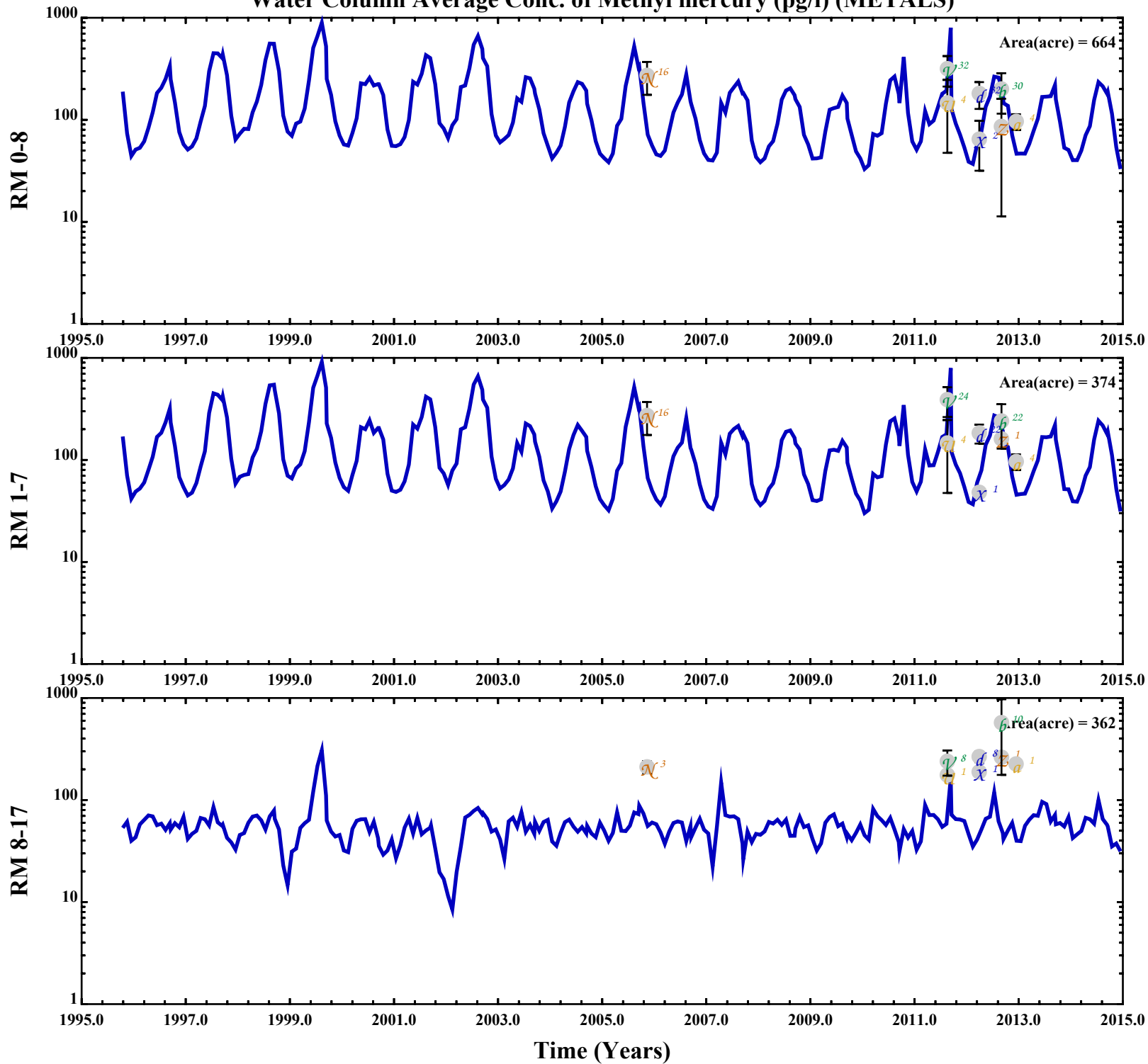
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)



# Water Column Average Conc. of Methyl mercury (pg/l) (METALS)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
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- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
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- e 2012 CPG CWCM Sampling - Round 4

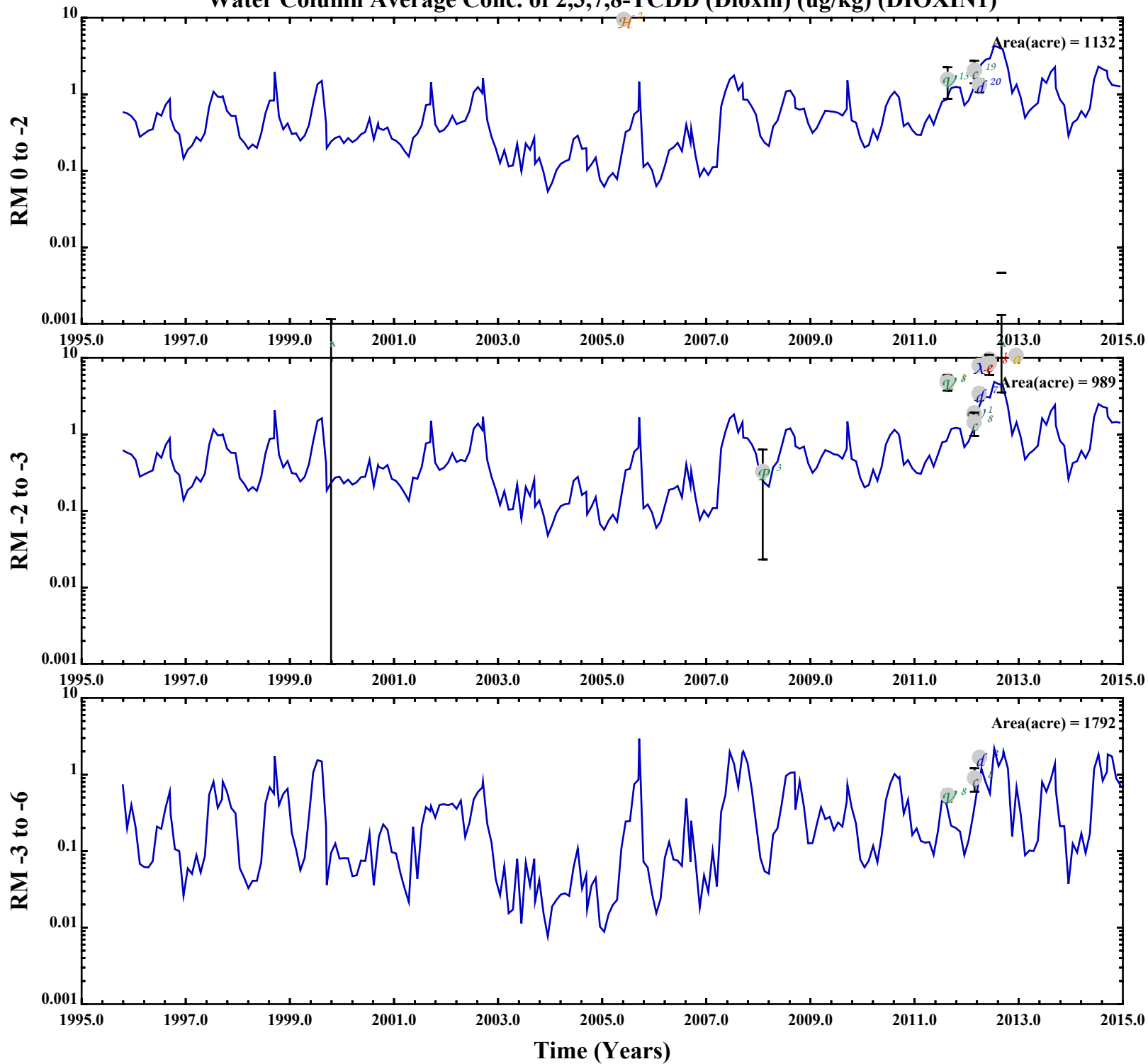
— No Action Gradient IC, Reach Scale Up

**Attachment C-4**

**Newark Bay Water Column Reach Average**

**Time Series Calibration**

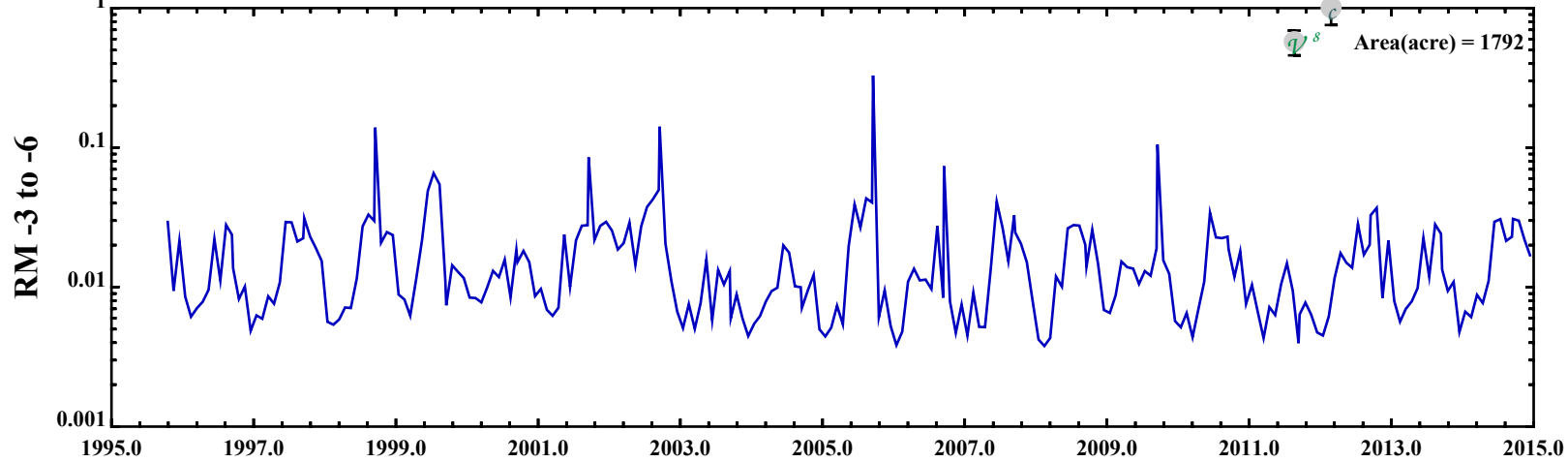
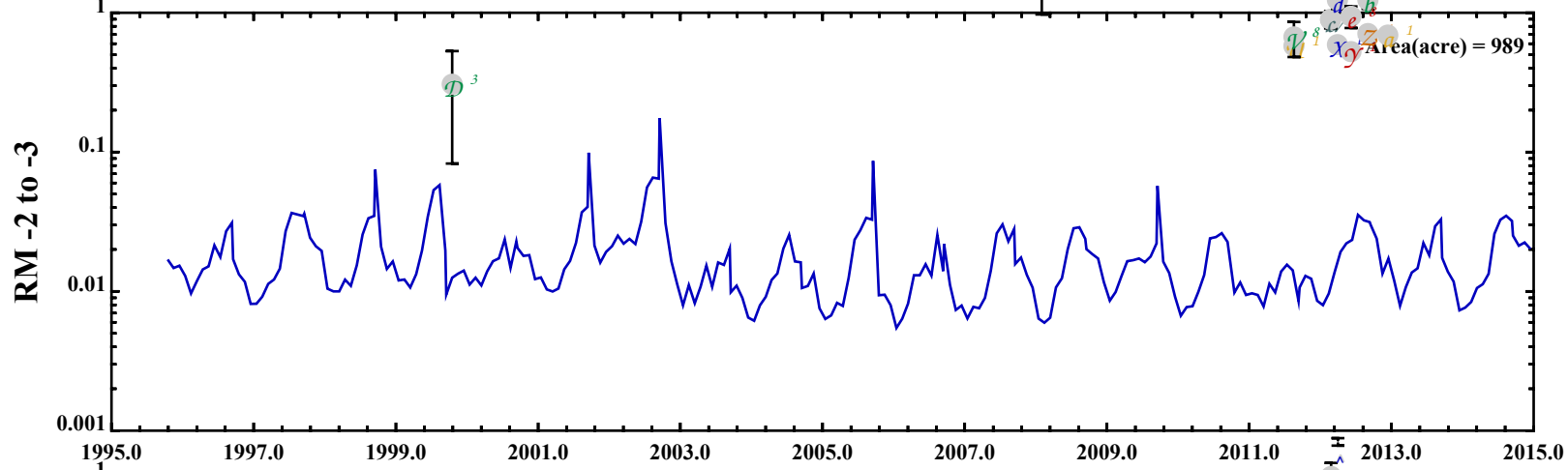
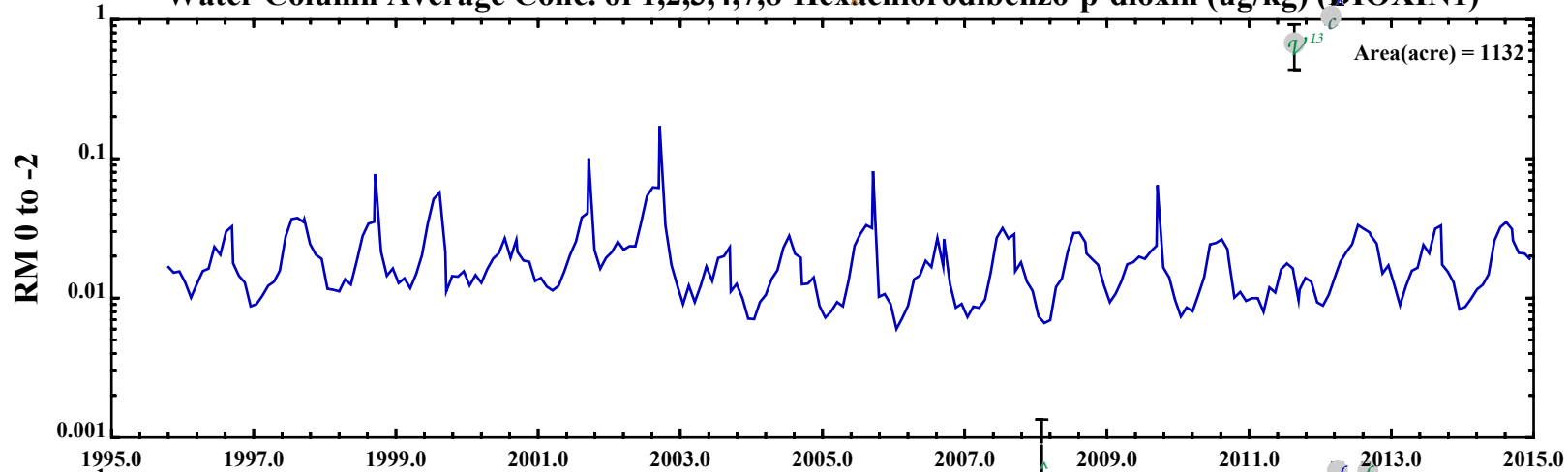
# Water Column Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

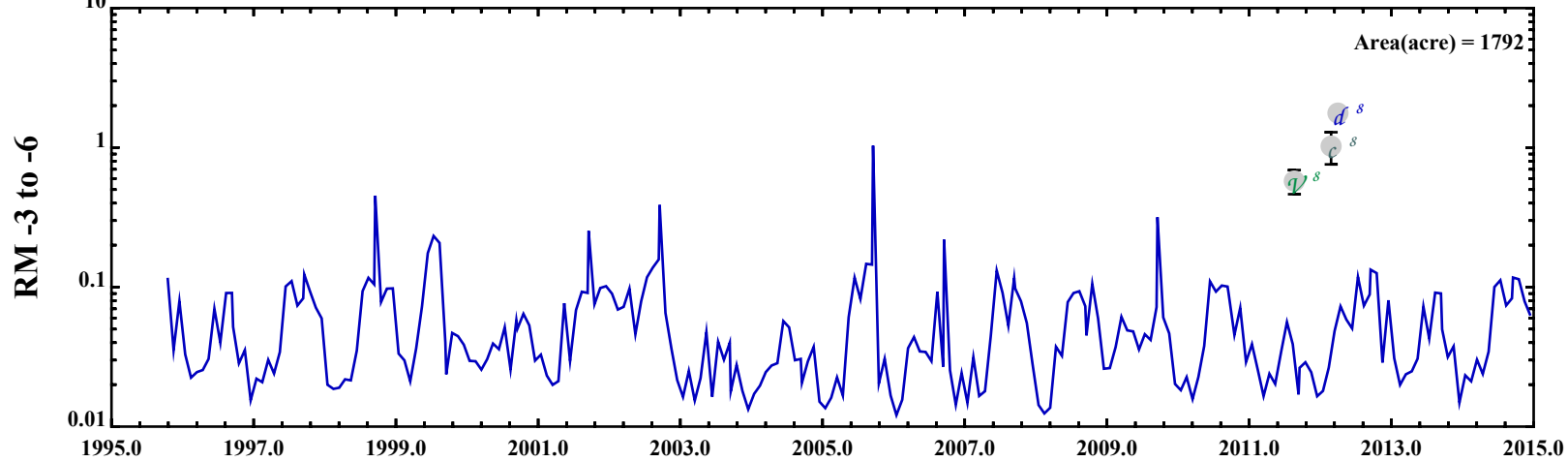
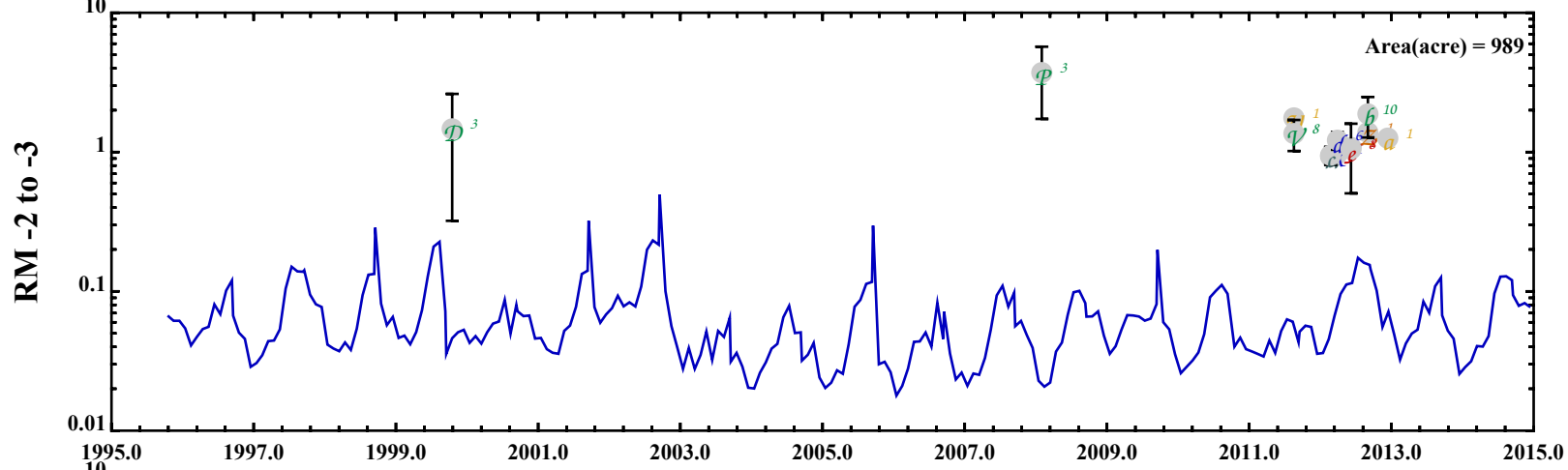
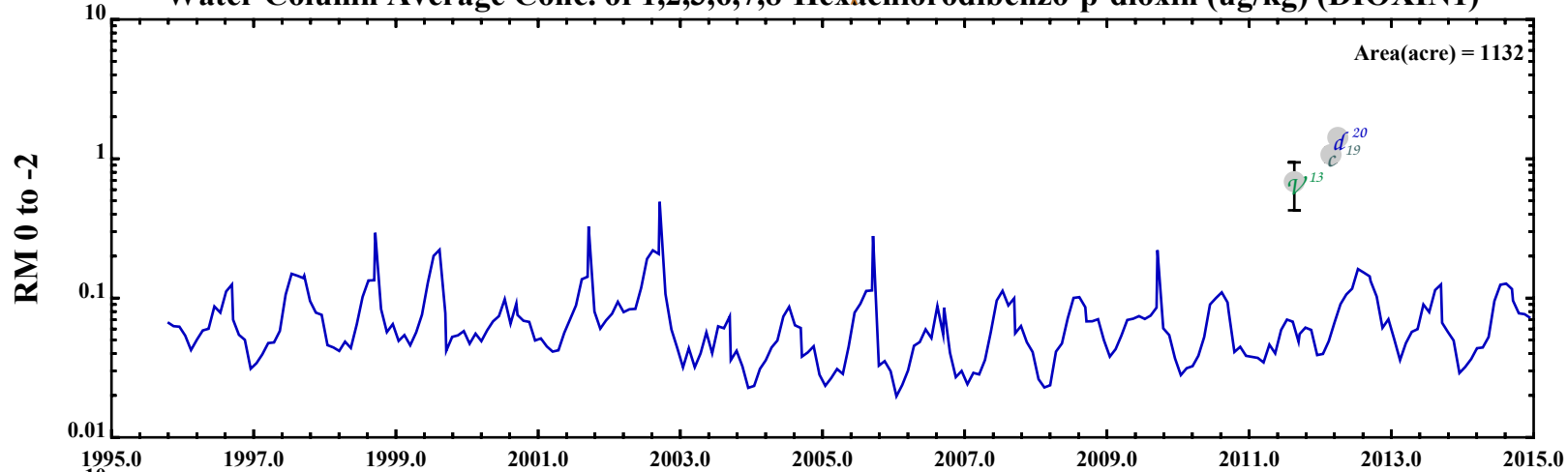


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
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- H* 1999-2006 Honeywell Intl Sampling
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

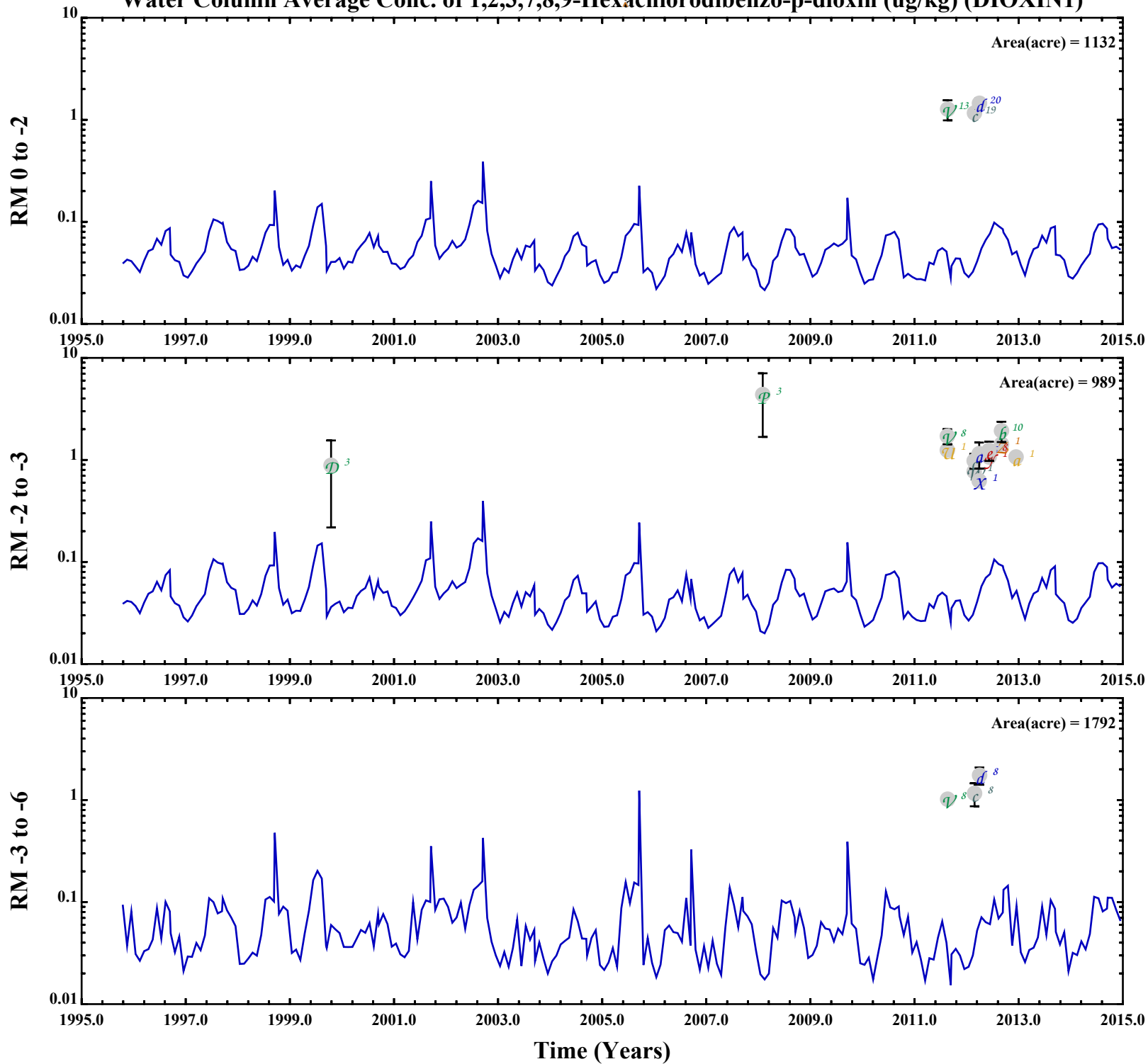


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- H* 1999-2006 Honeywell Intl Sampling
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- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

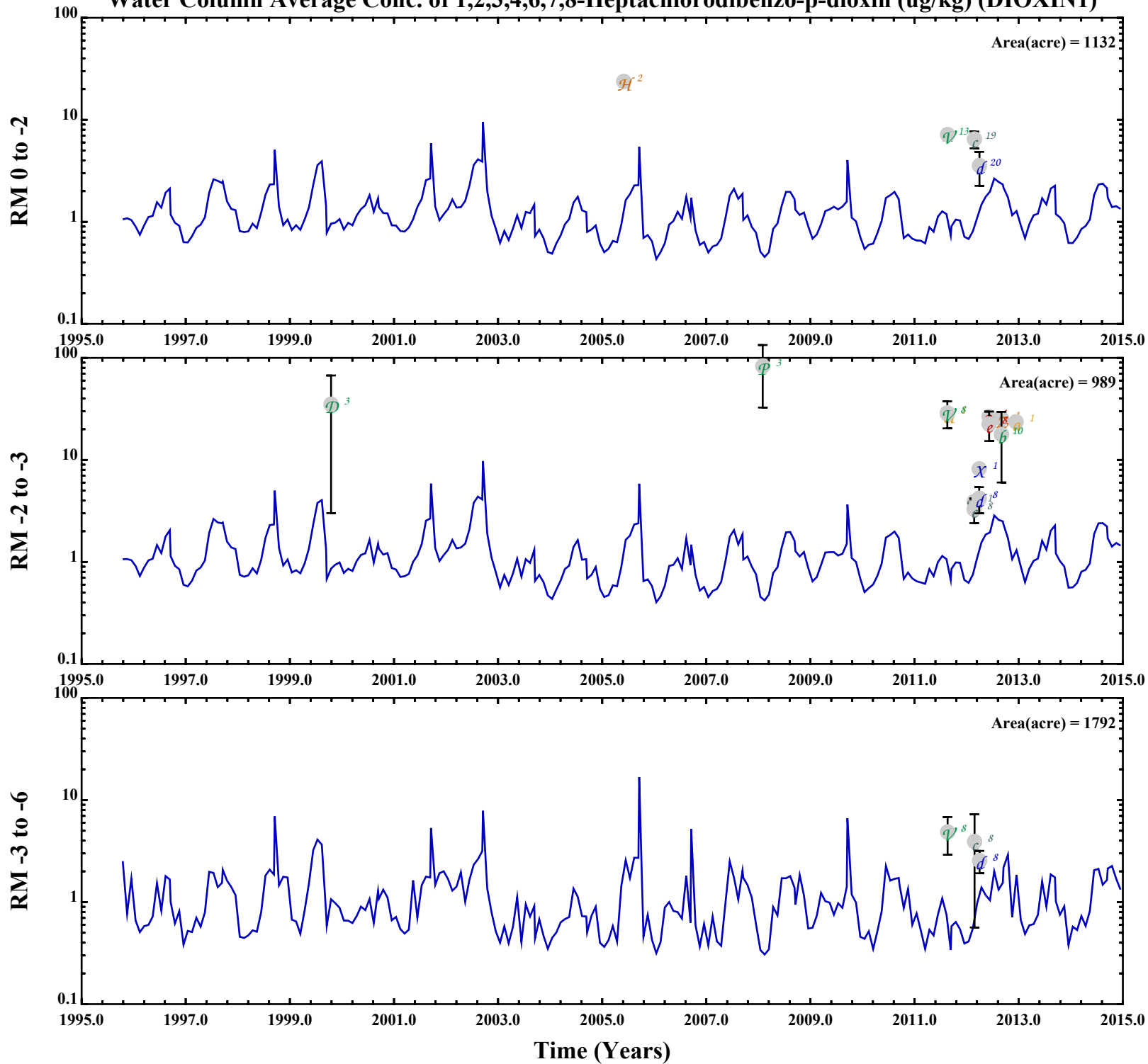
# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

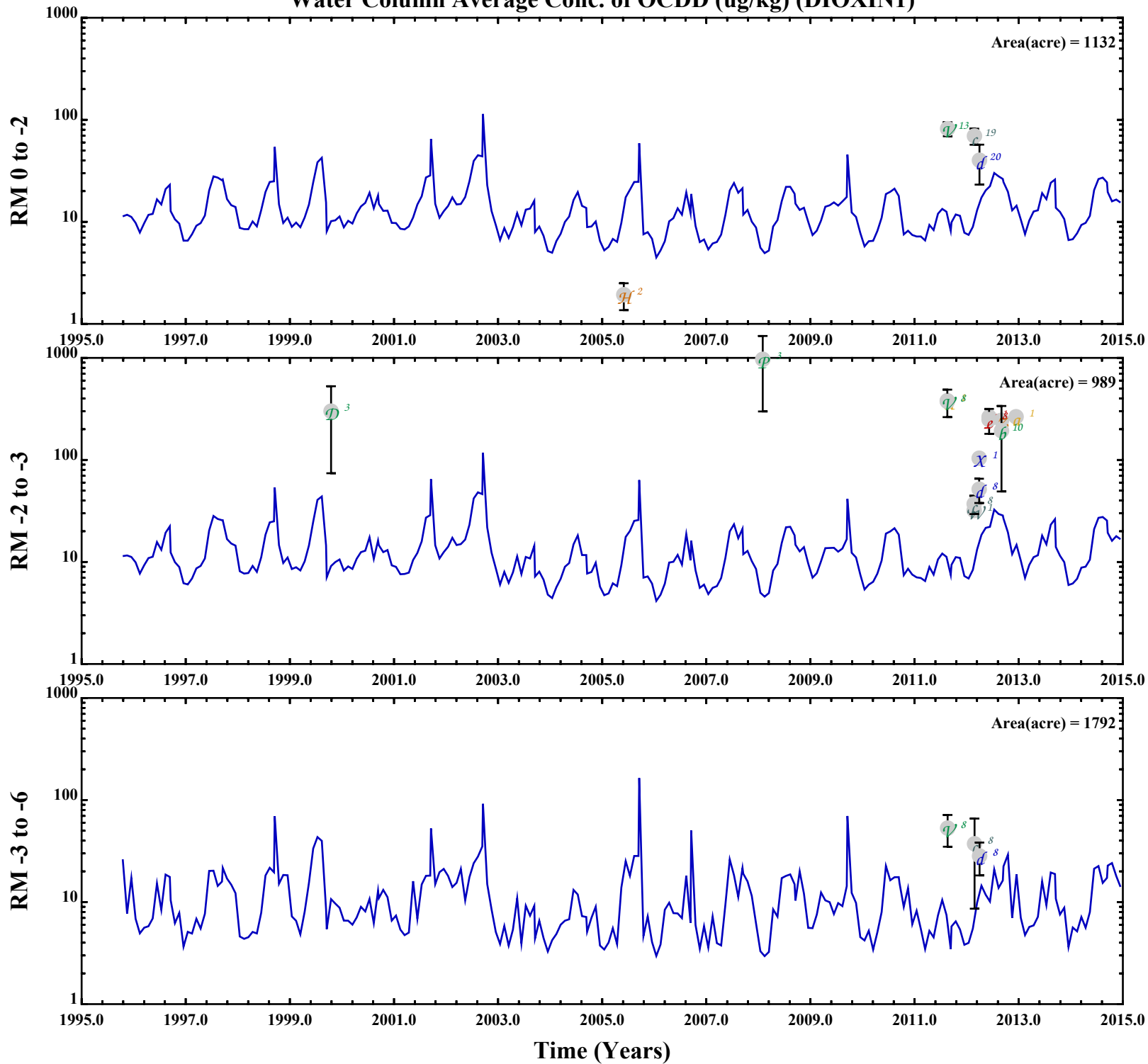
# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 1999 Newark Bay Reach ABCDBaseline Sampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of OCDD (ug/kg) (DIOXIN1)

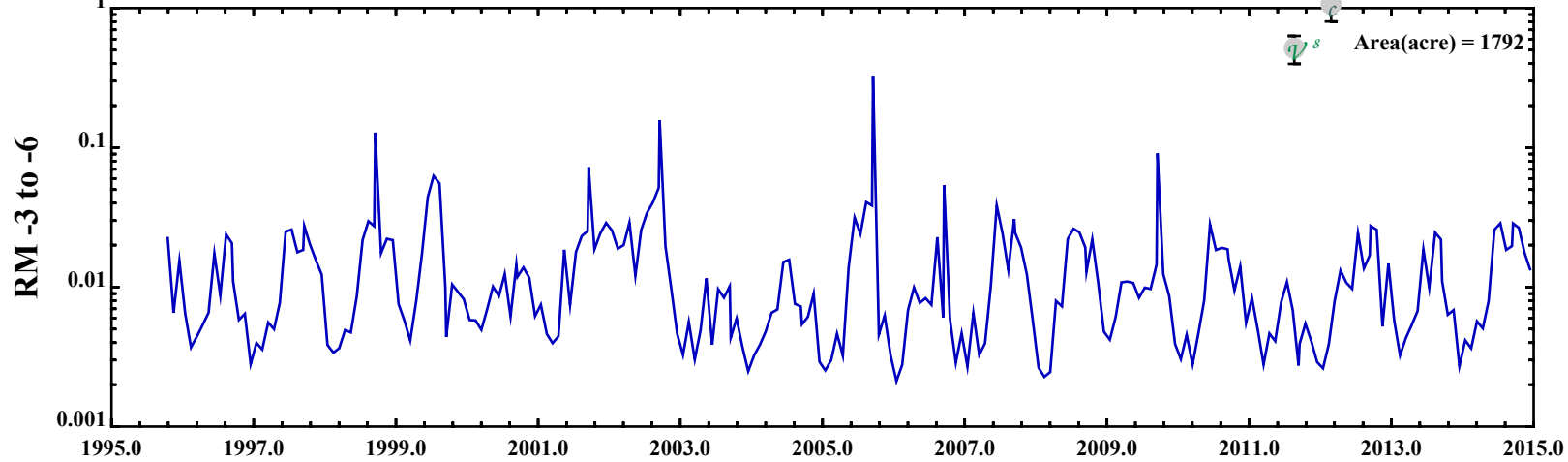
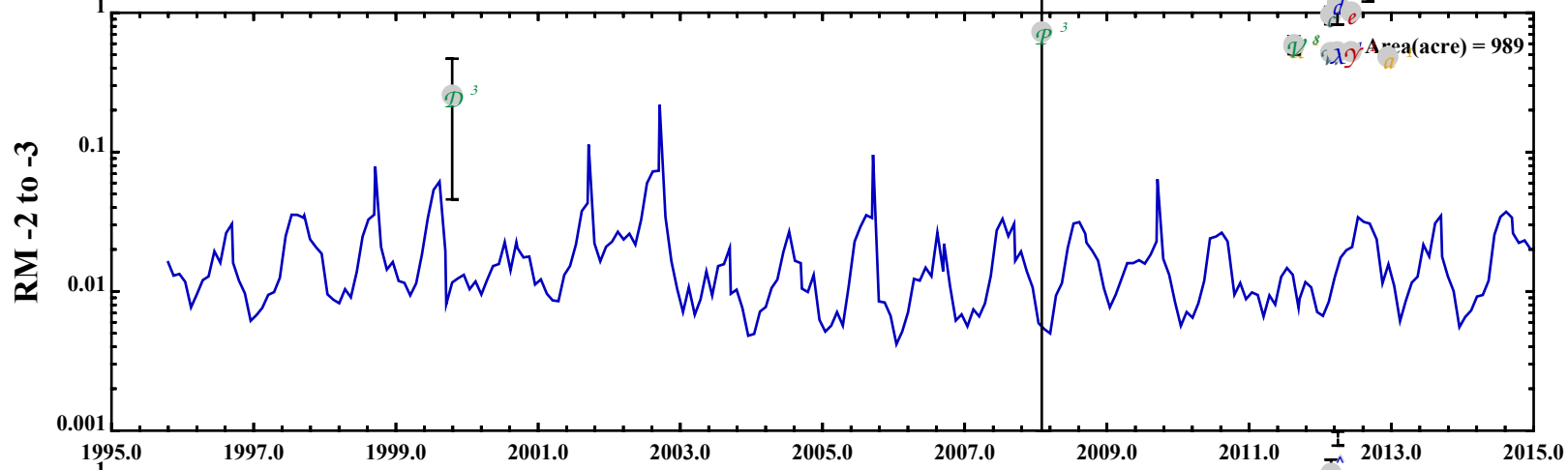
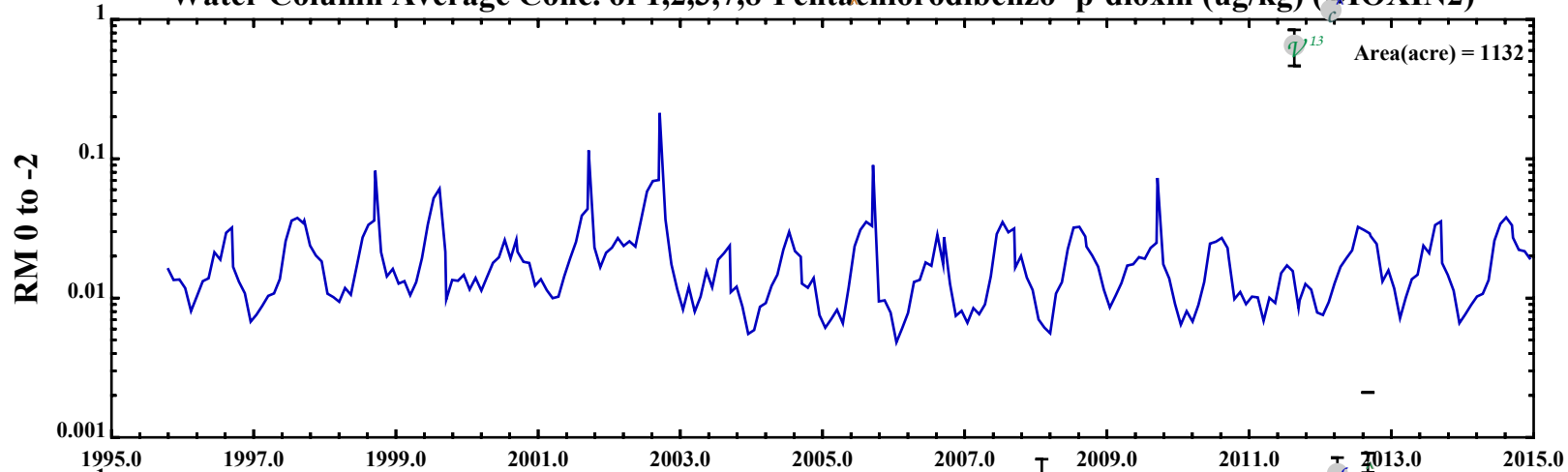


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
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- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 NewarkBay ReachABCDBaselineSampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)

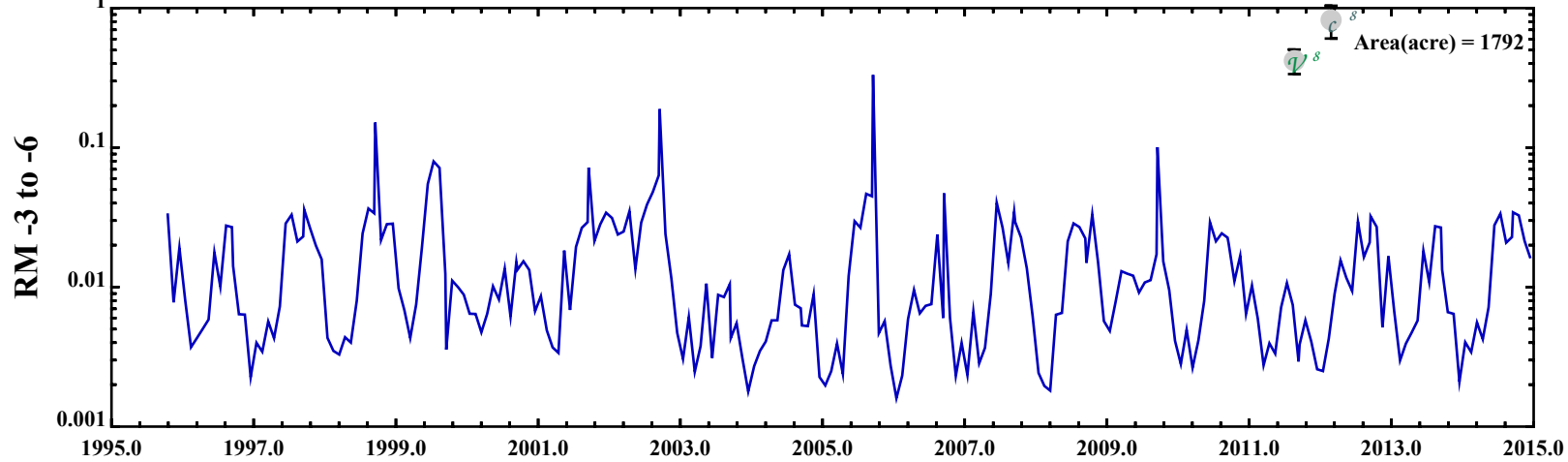
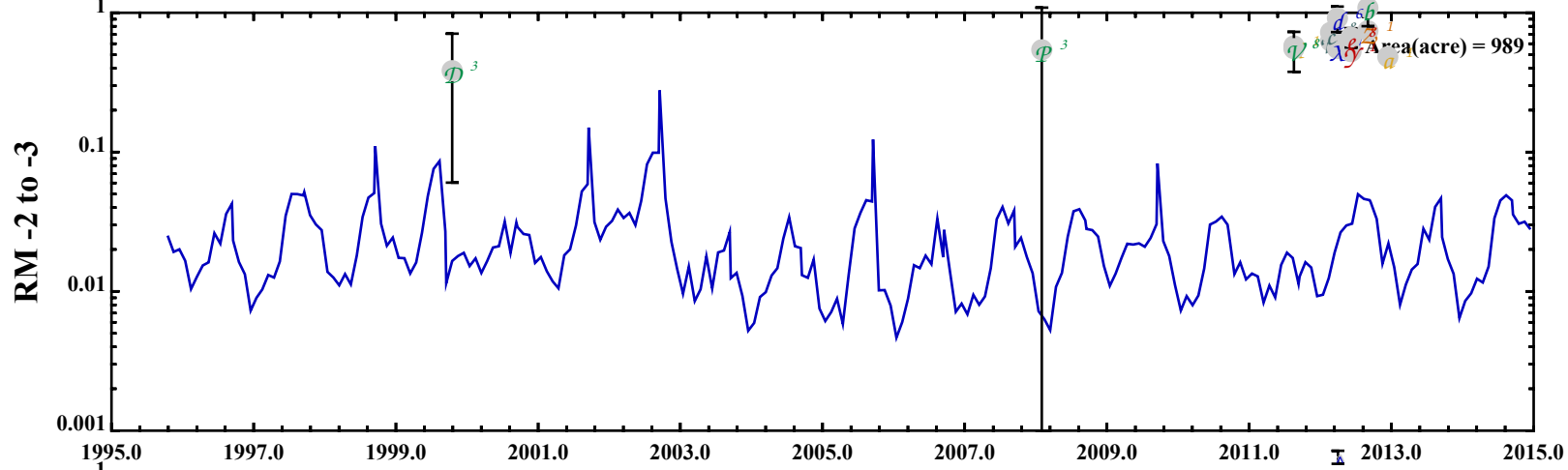
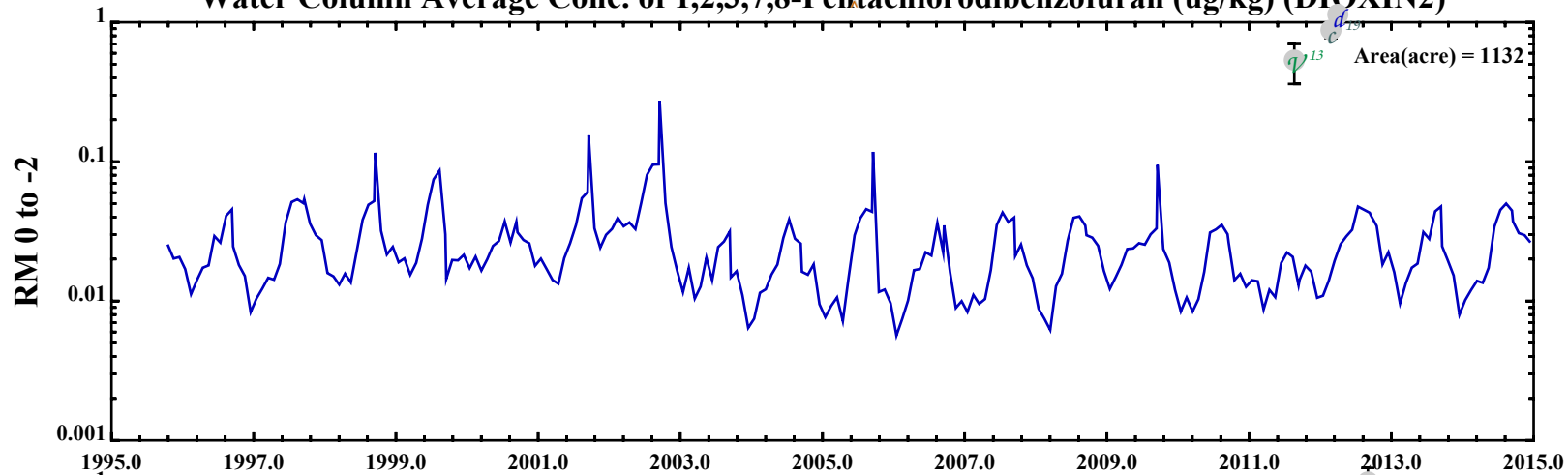


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
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- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

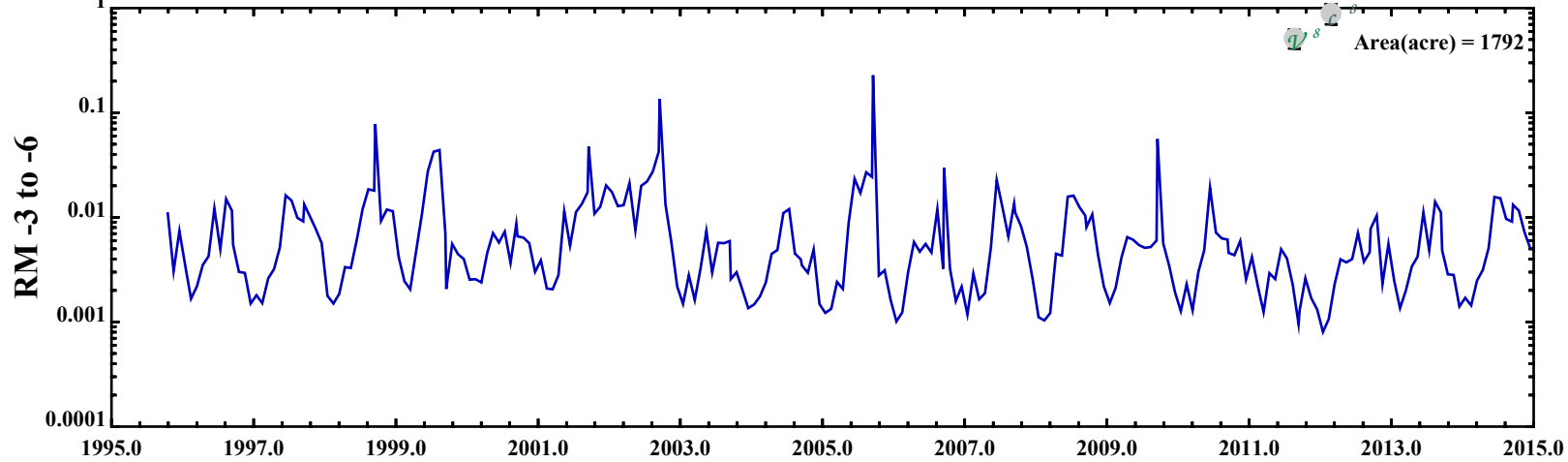
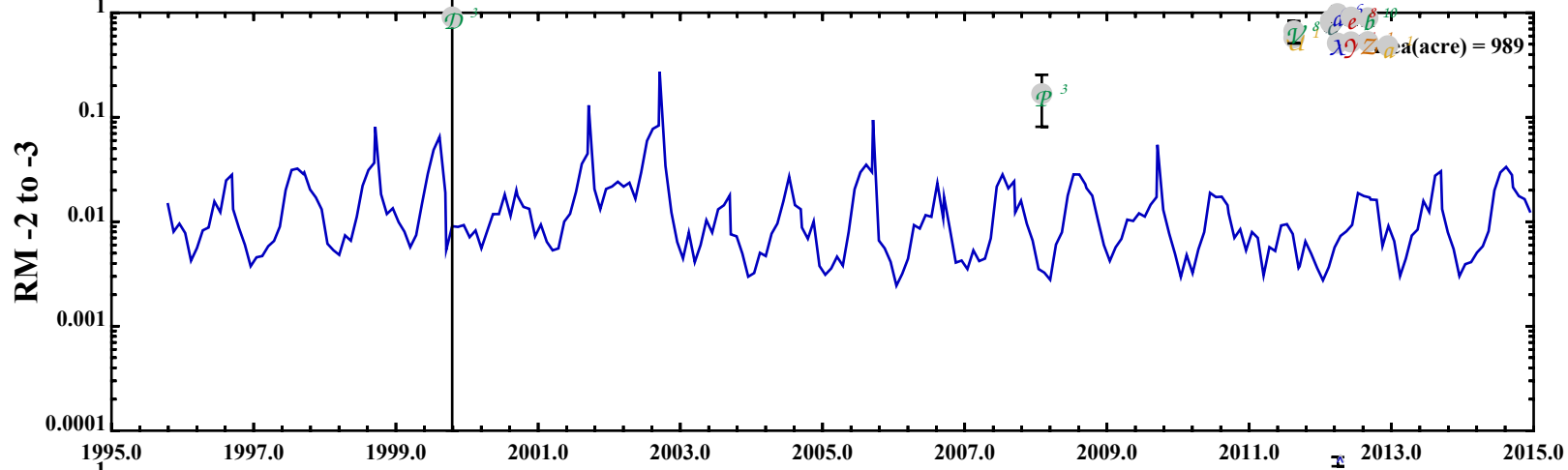
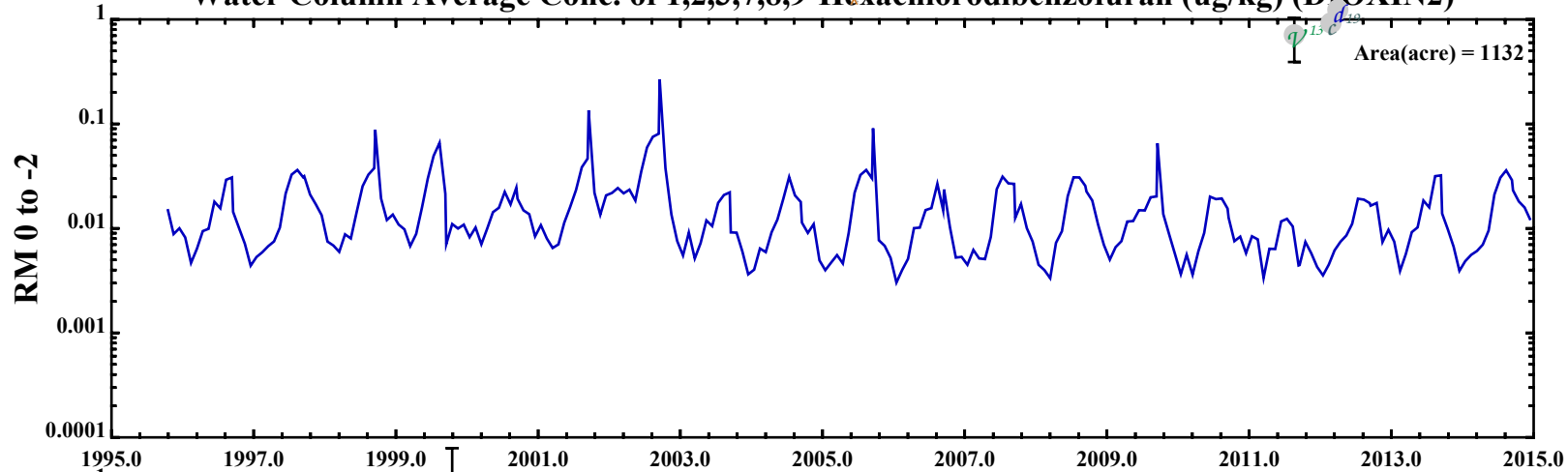


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

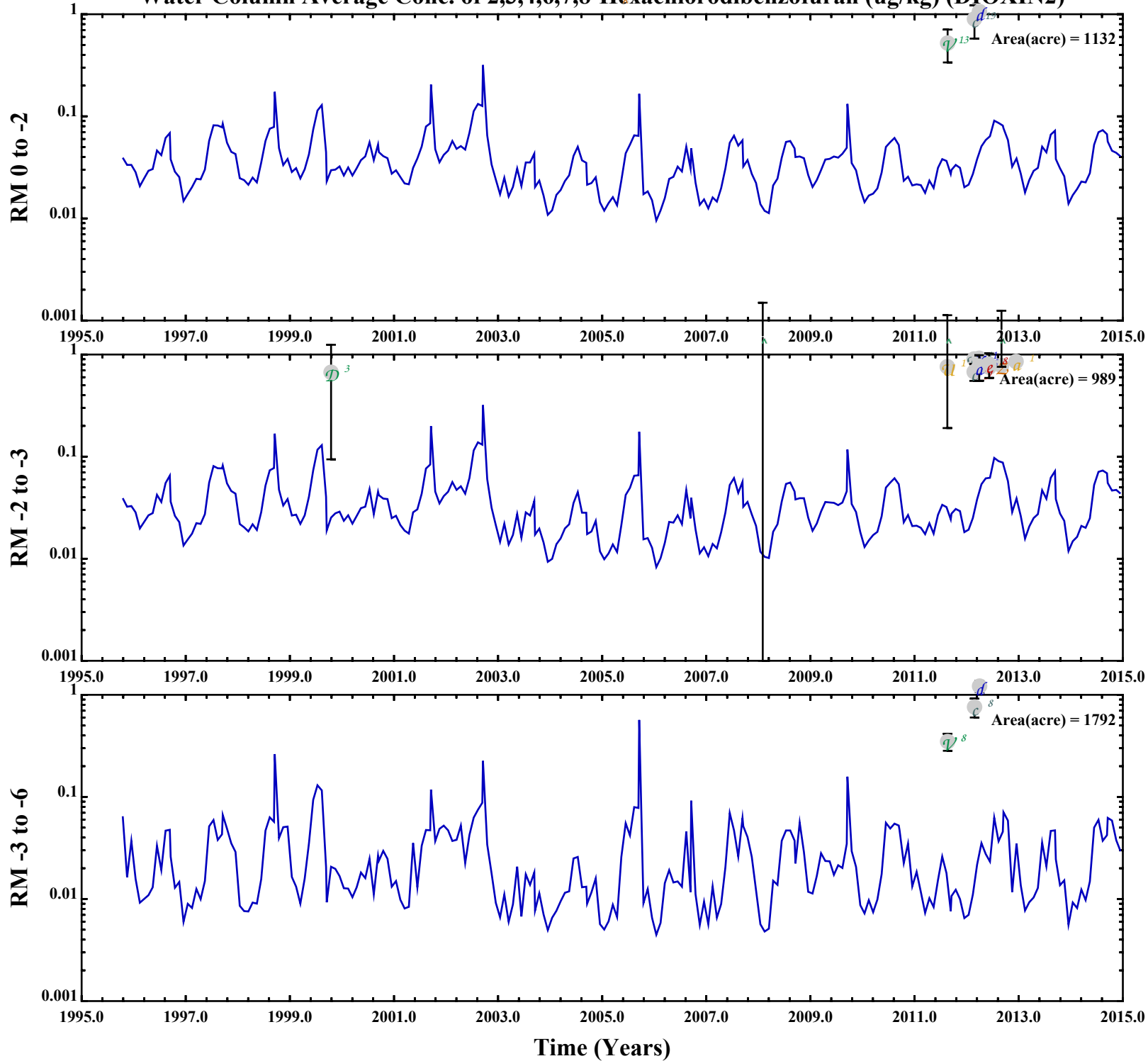


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- K* 2005 MPI SPMD Deployment
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

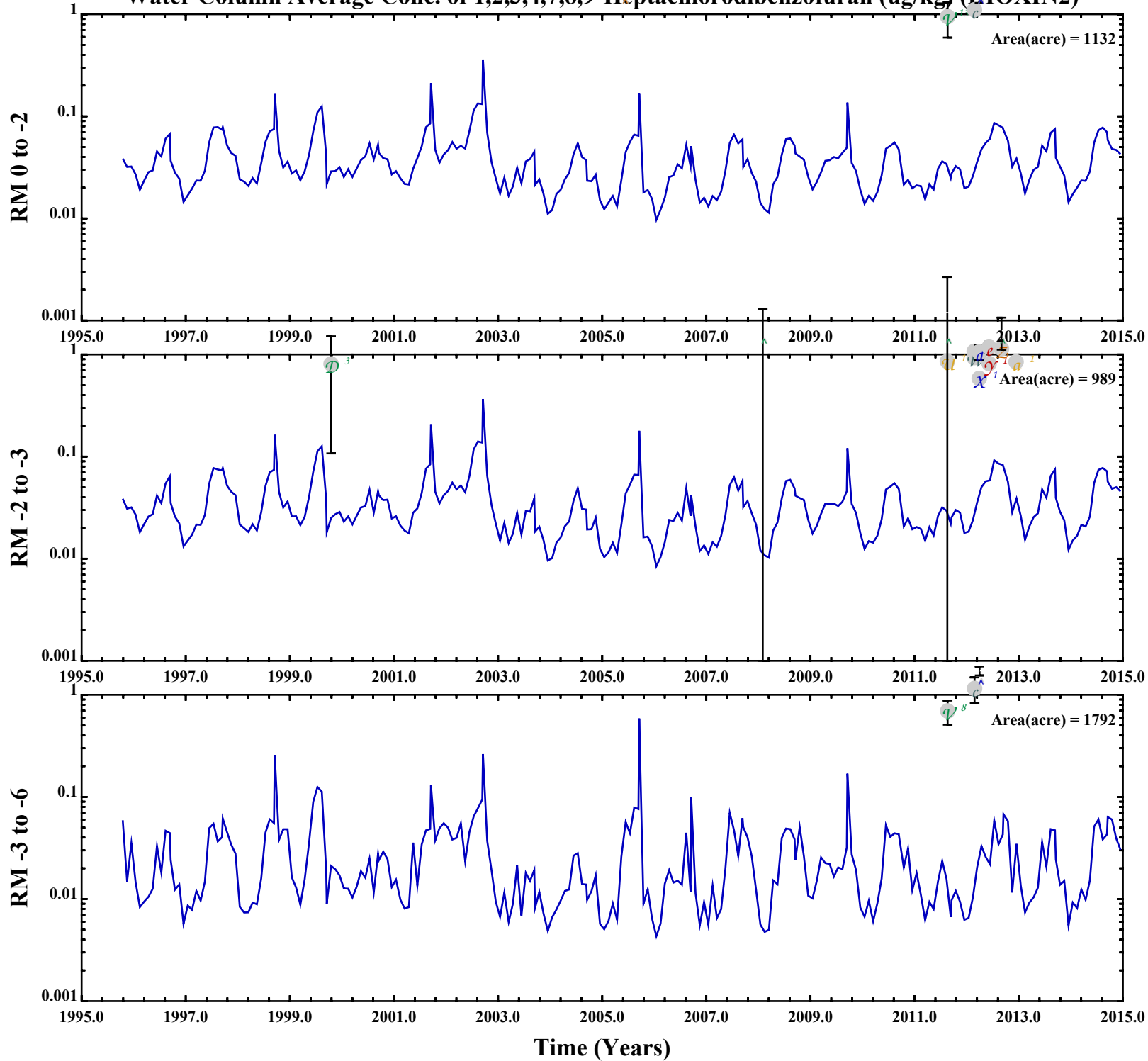
# Water Column Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
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- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- V* 2011 CPG CWCM Sampling Data
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- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

**— No Action Gradient IC, Reach Scale Up**

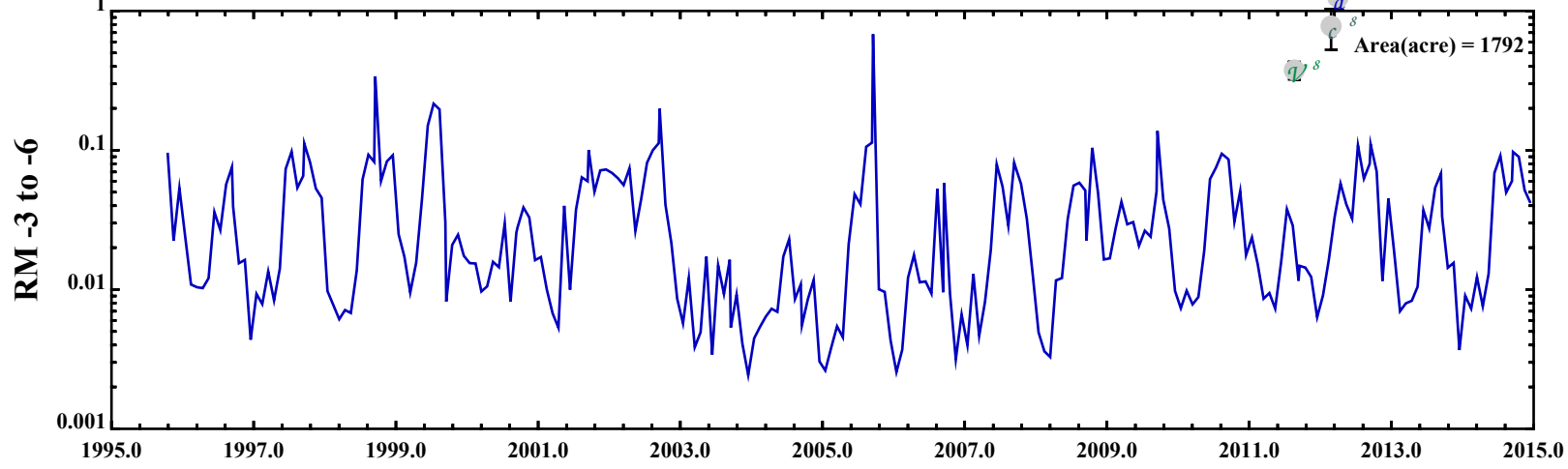
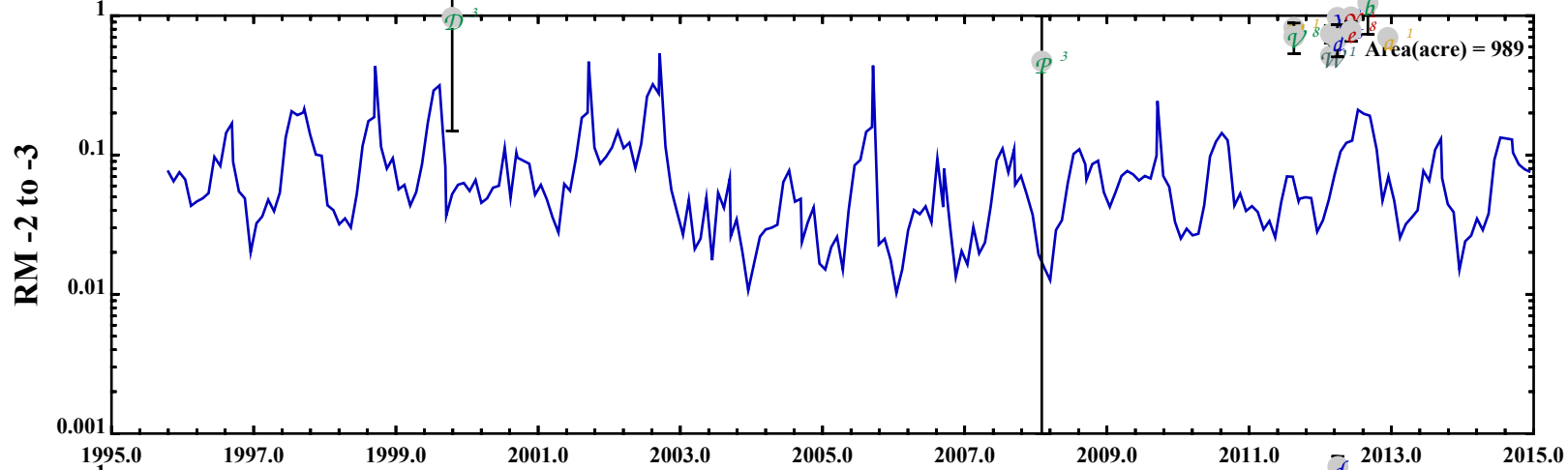
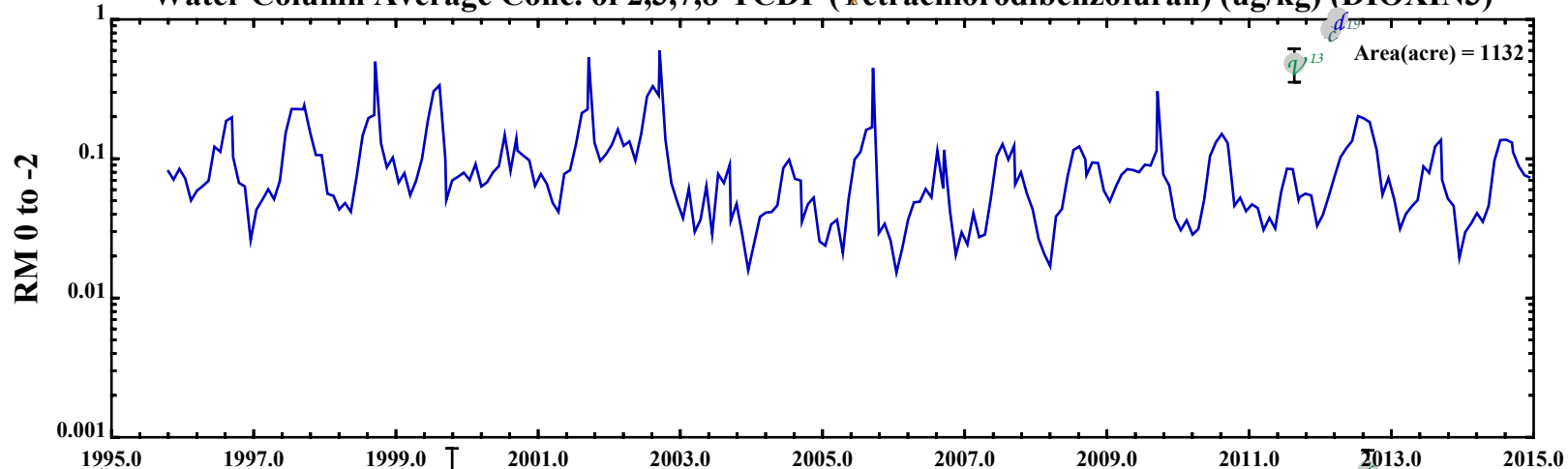
# Water Column Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (BIOXIN2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
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- W 2012 CDM Smith CWCM Sampling - Round 2
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)

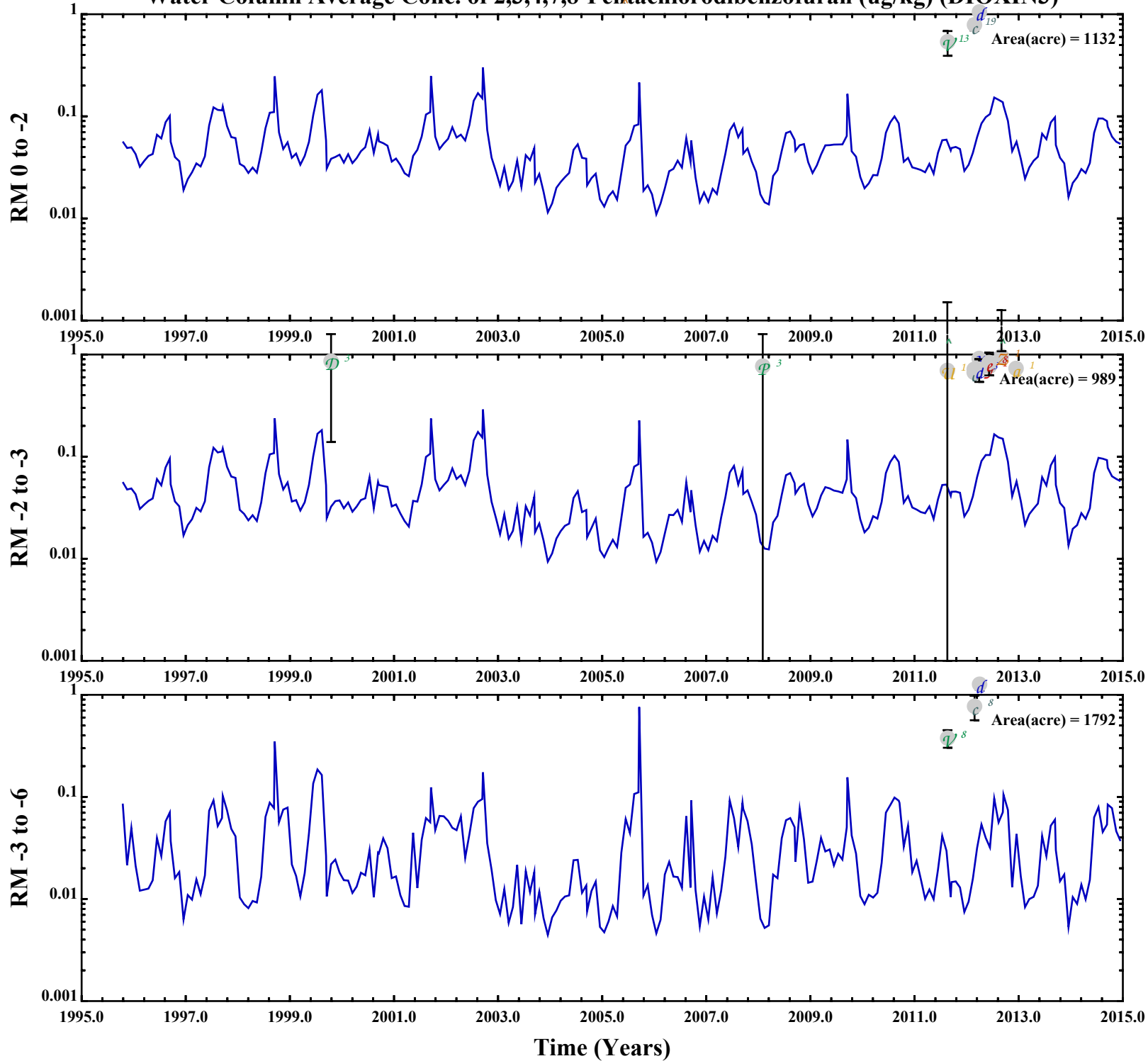


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
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- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

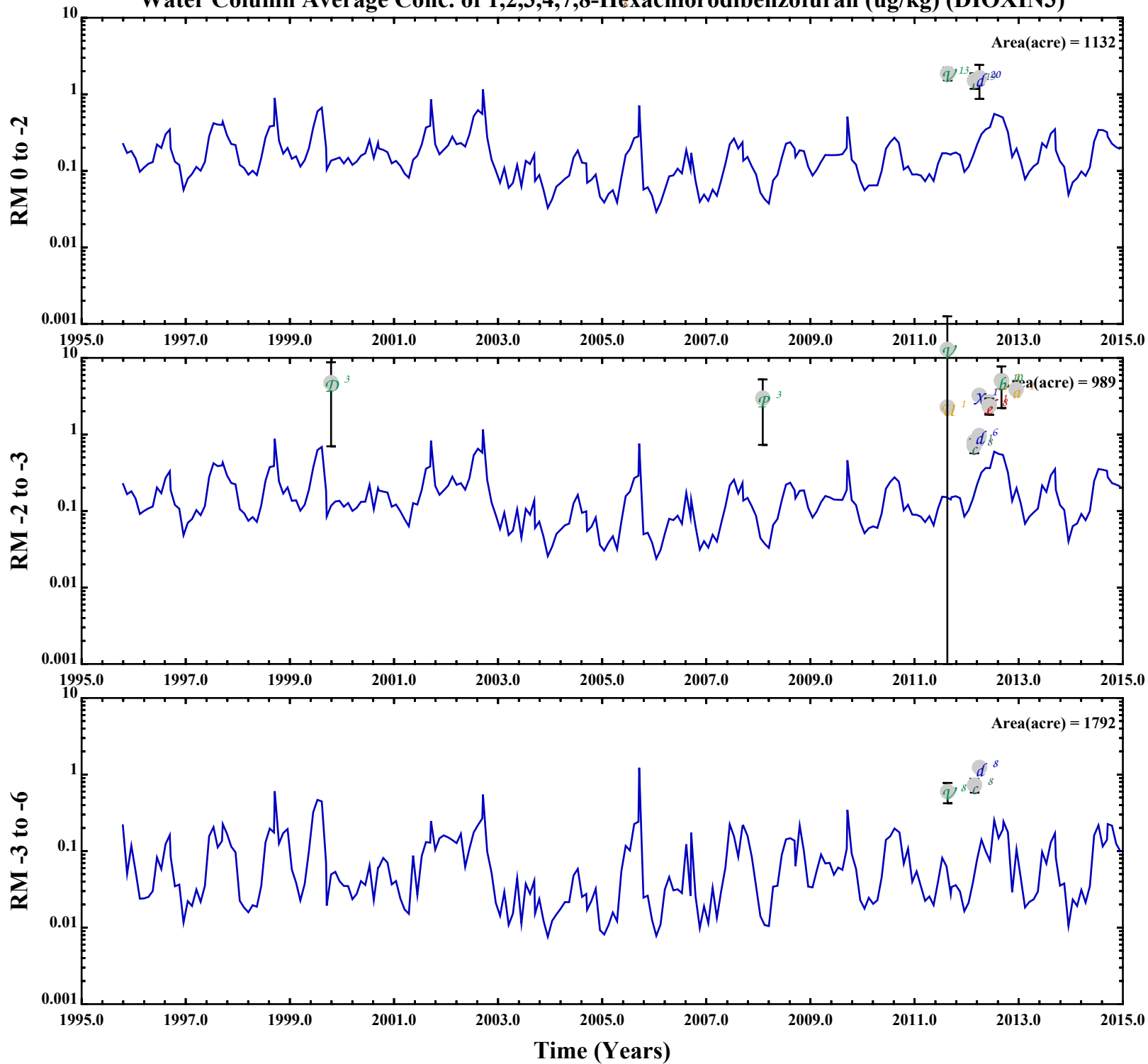
# Water Column Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
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- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

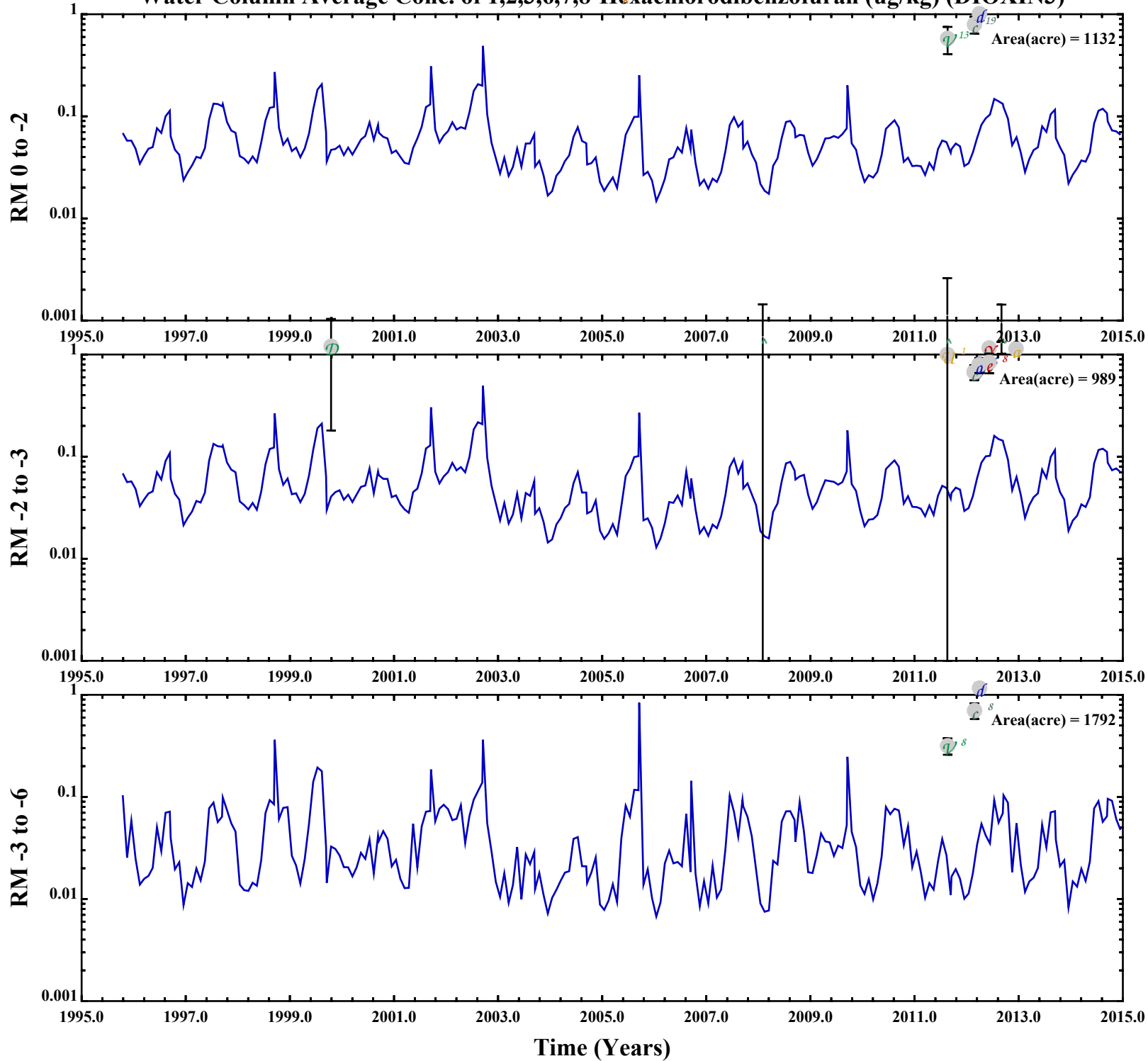


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



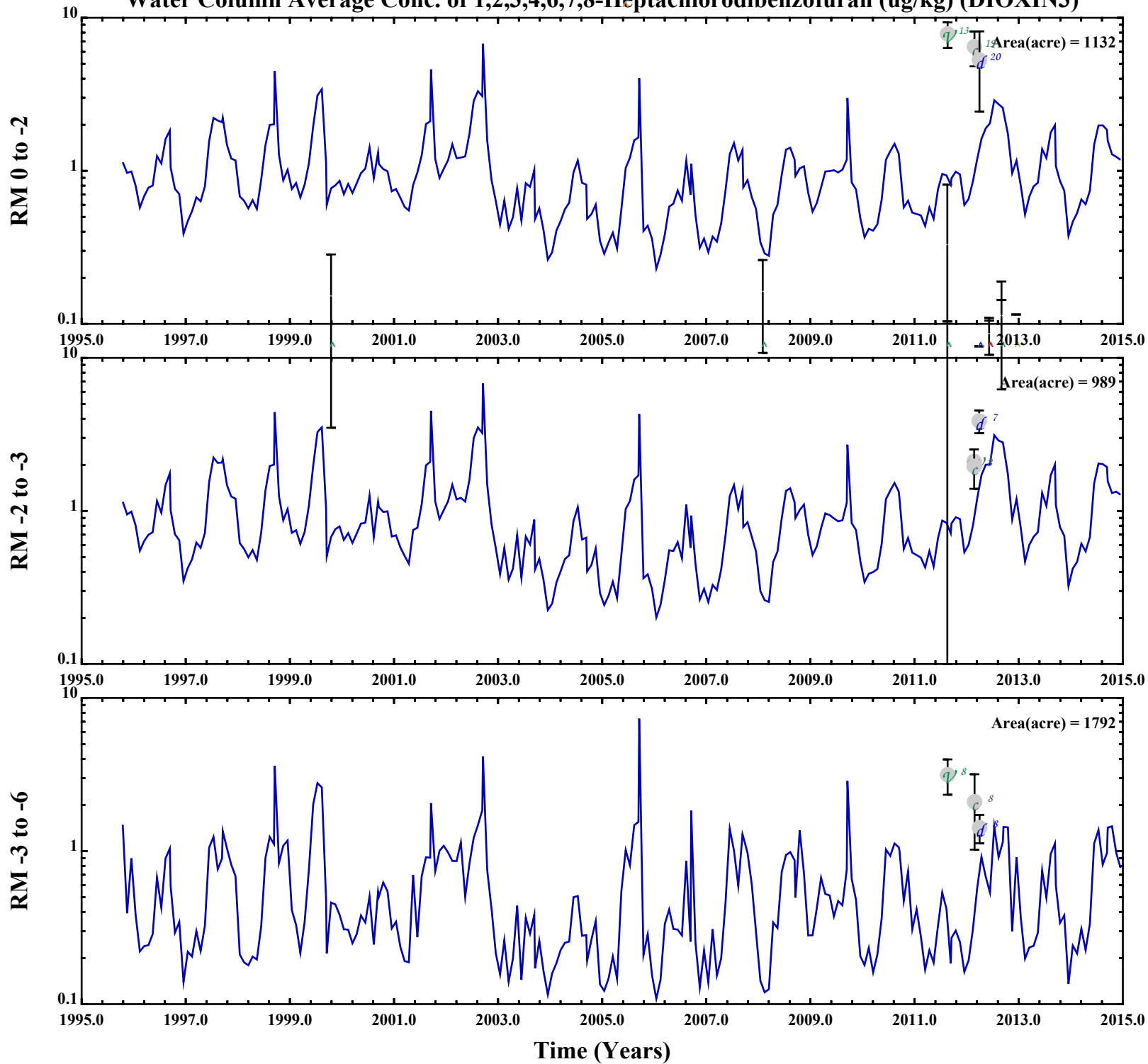
# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

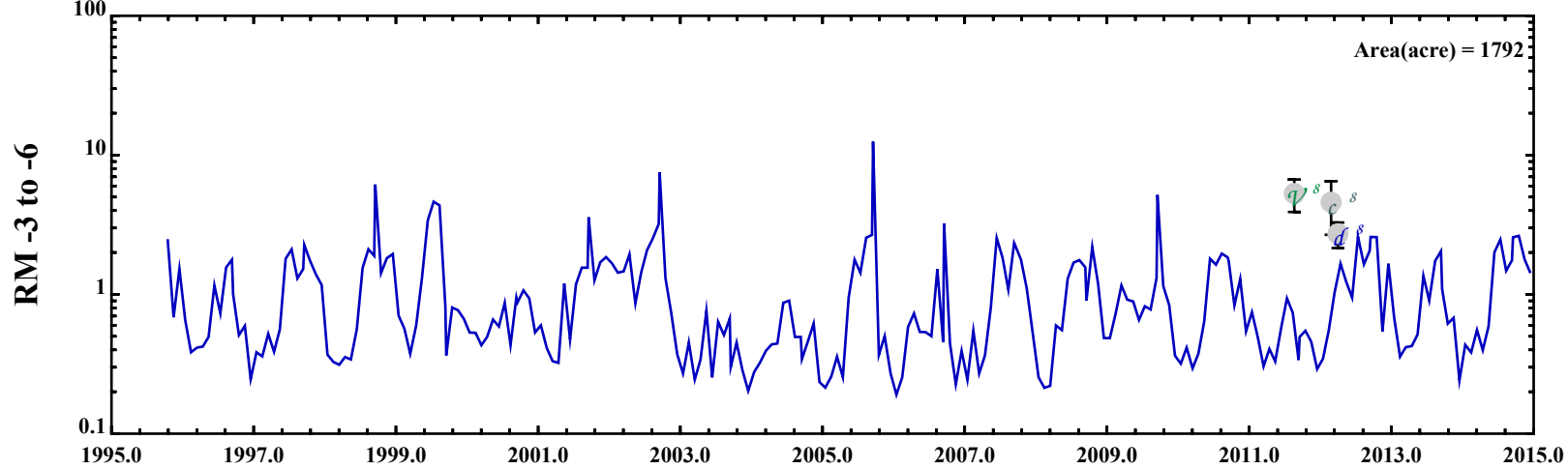
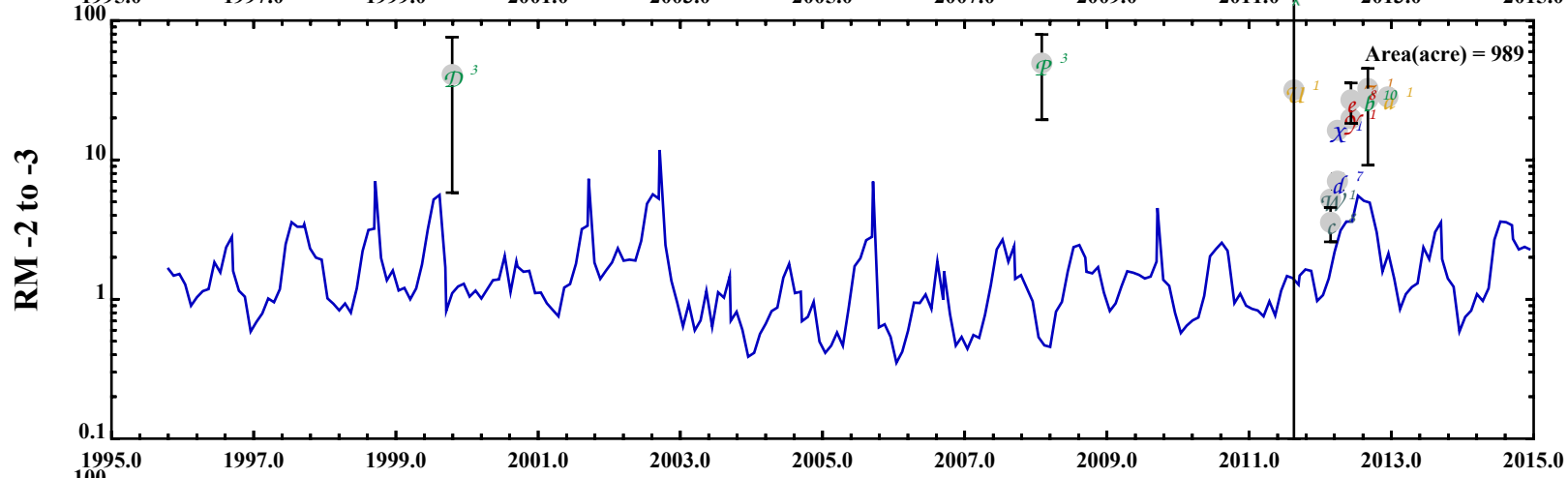
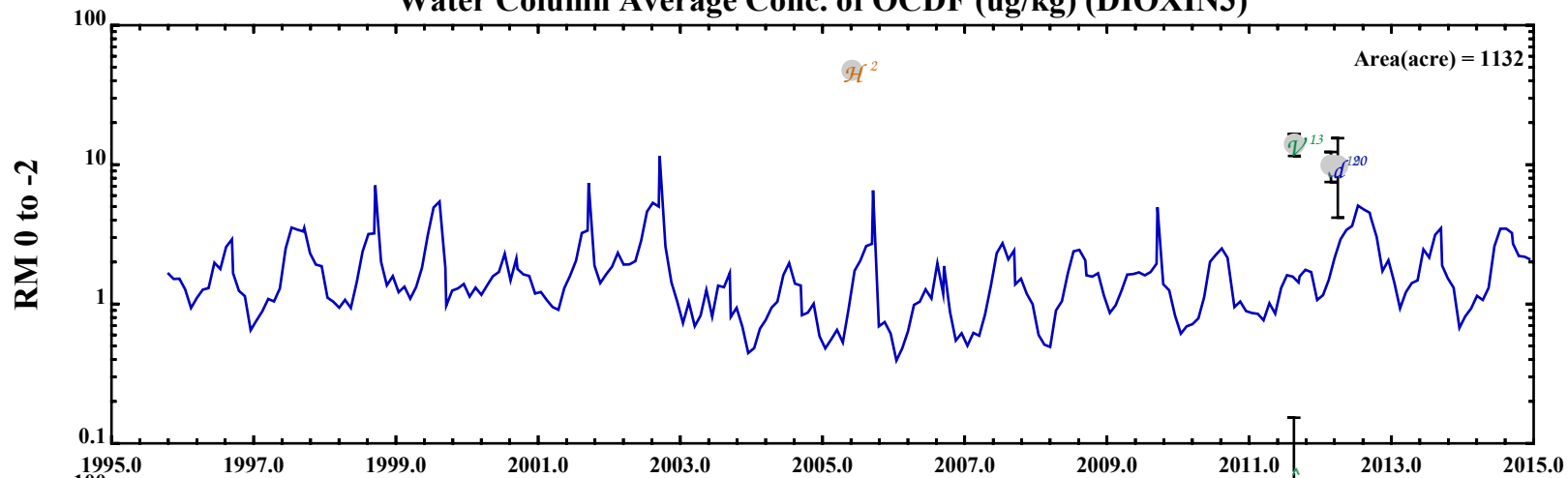
# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 Newark Bay Reach ABCD Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of OCDF (ug/kg) (DIOXIN3)

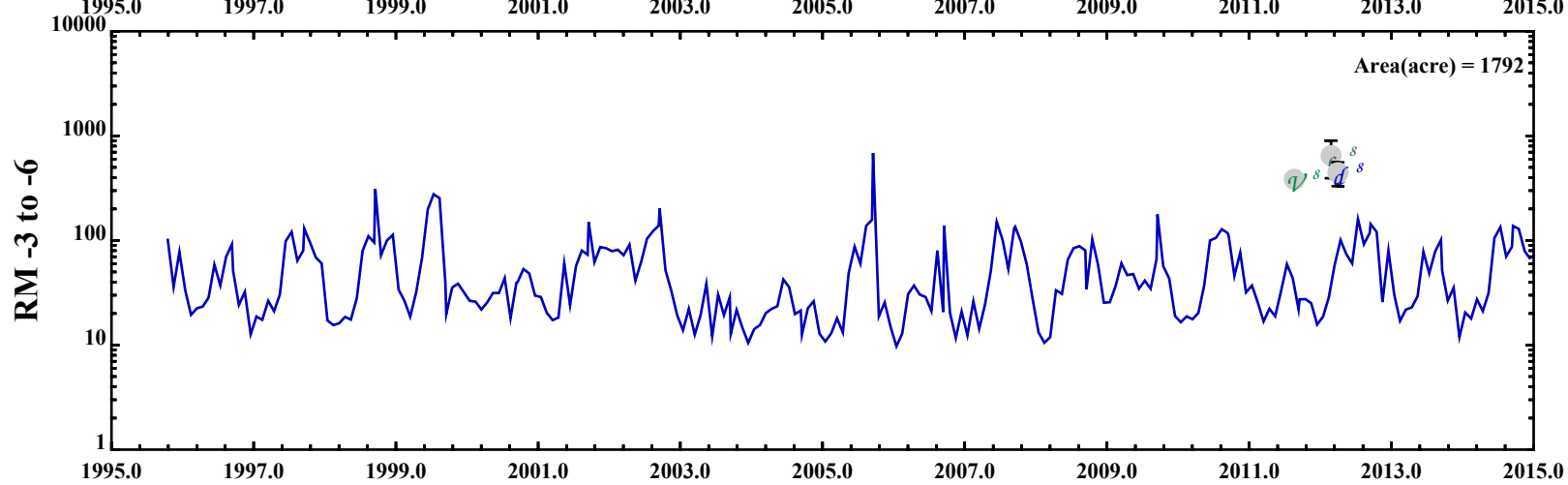
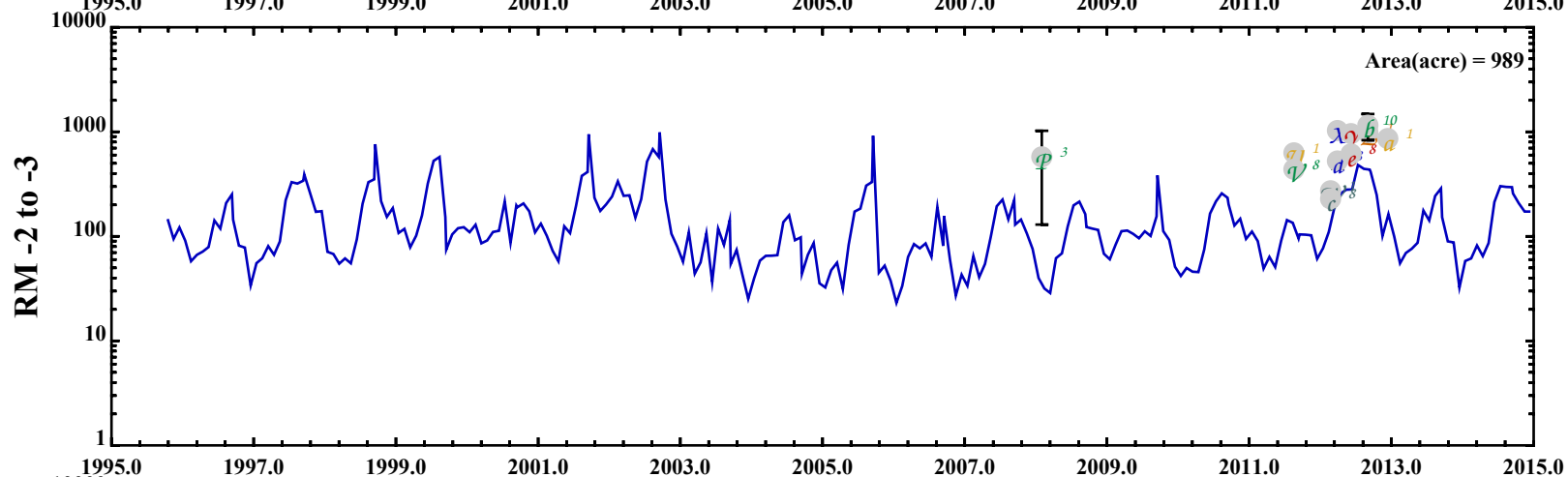
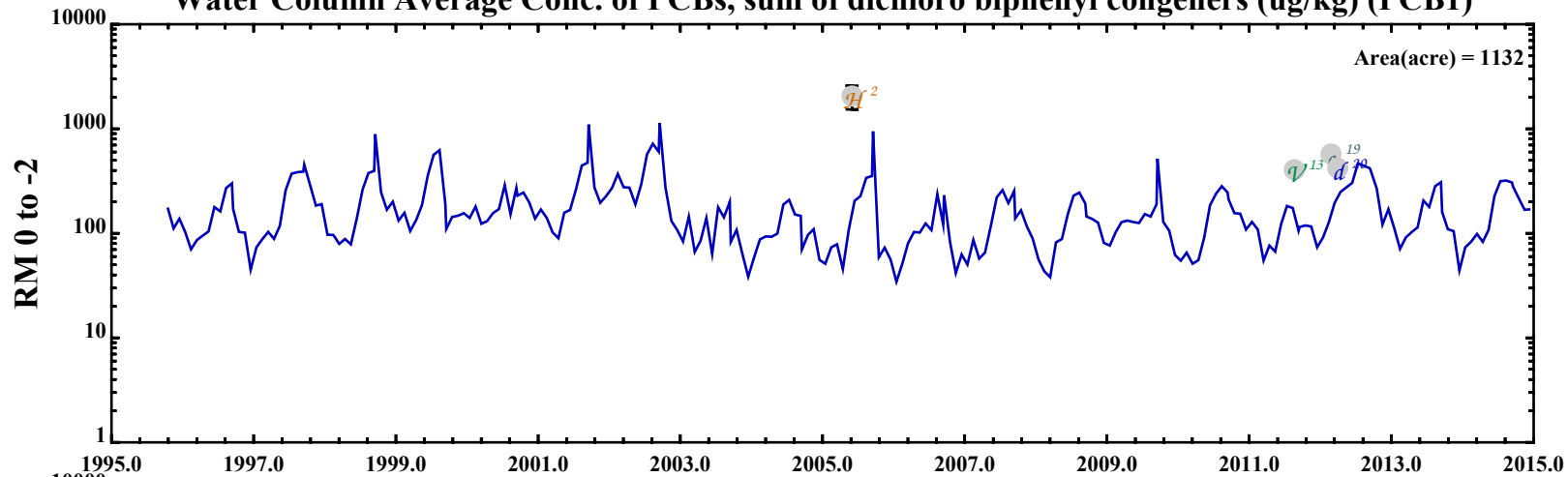


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 USEPA LBG-CDM PWCM Oversight
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)

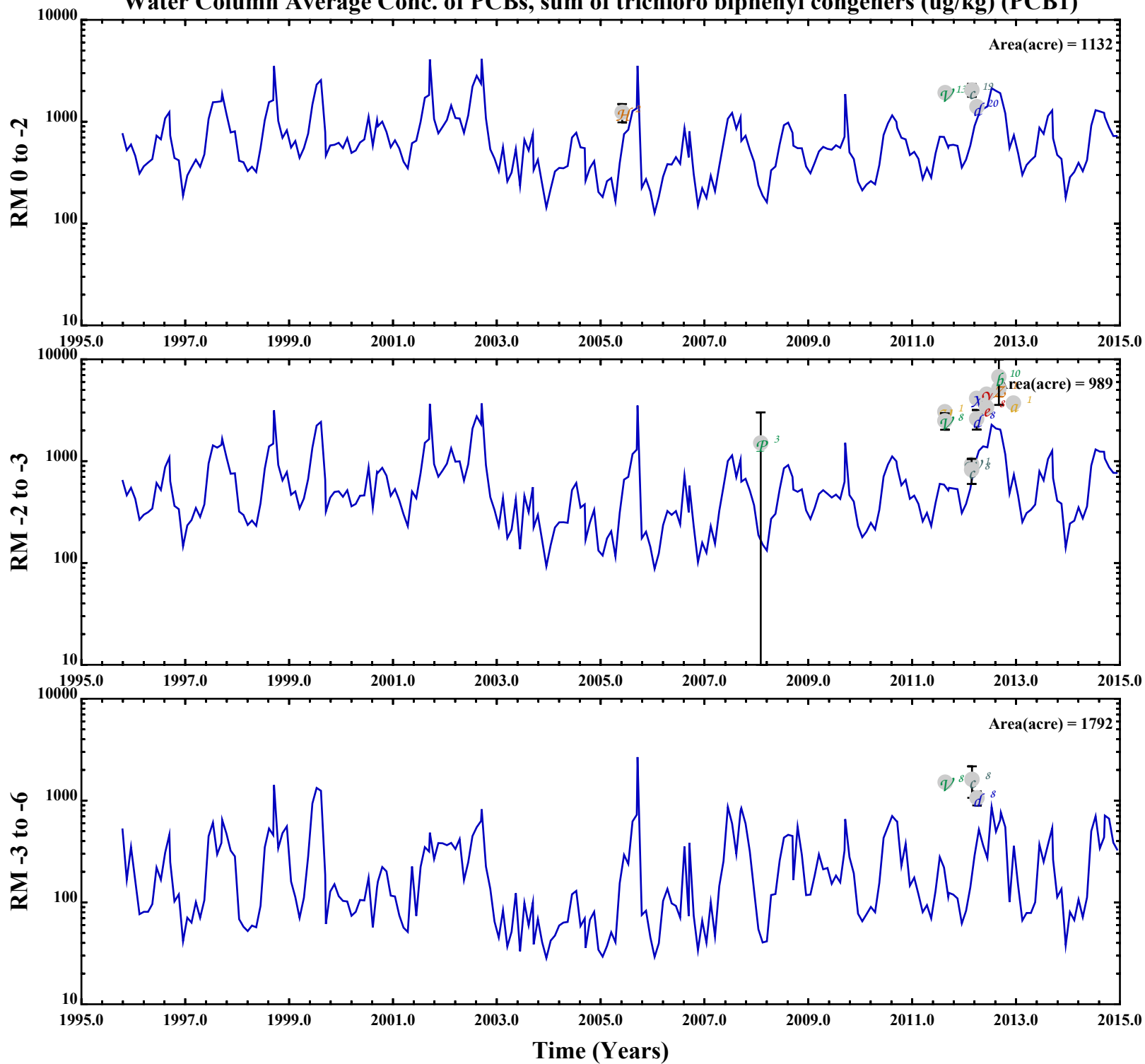


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- N* 2005 USEPA-MPI Small Volume Water Column
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 Newark Bay Reach ABCD Baseline Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
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- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

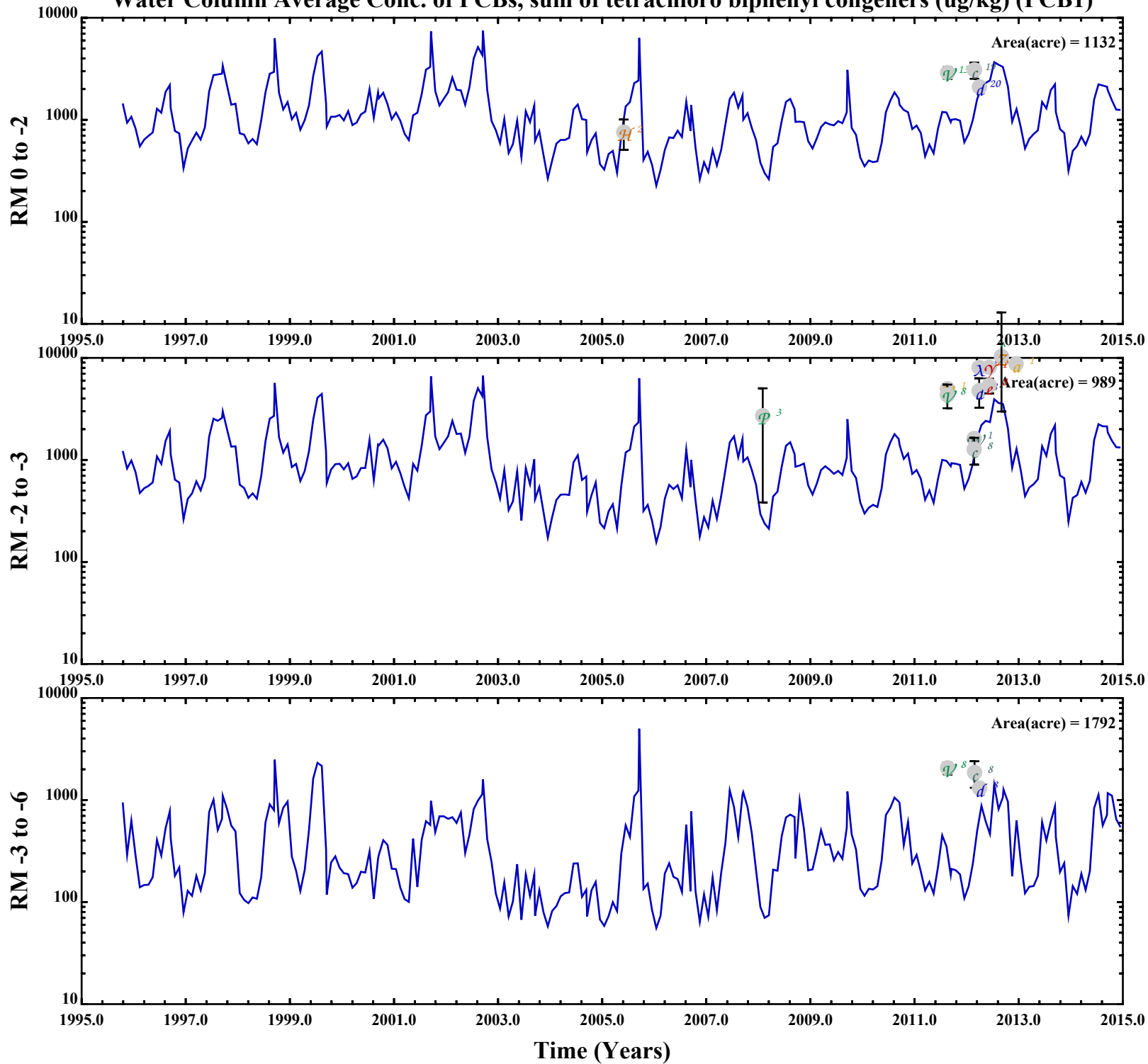
# Water Column Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- W* 2012 CDM Smith CWCM Sampling - Round 2
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

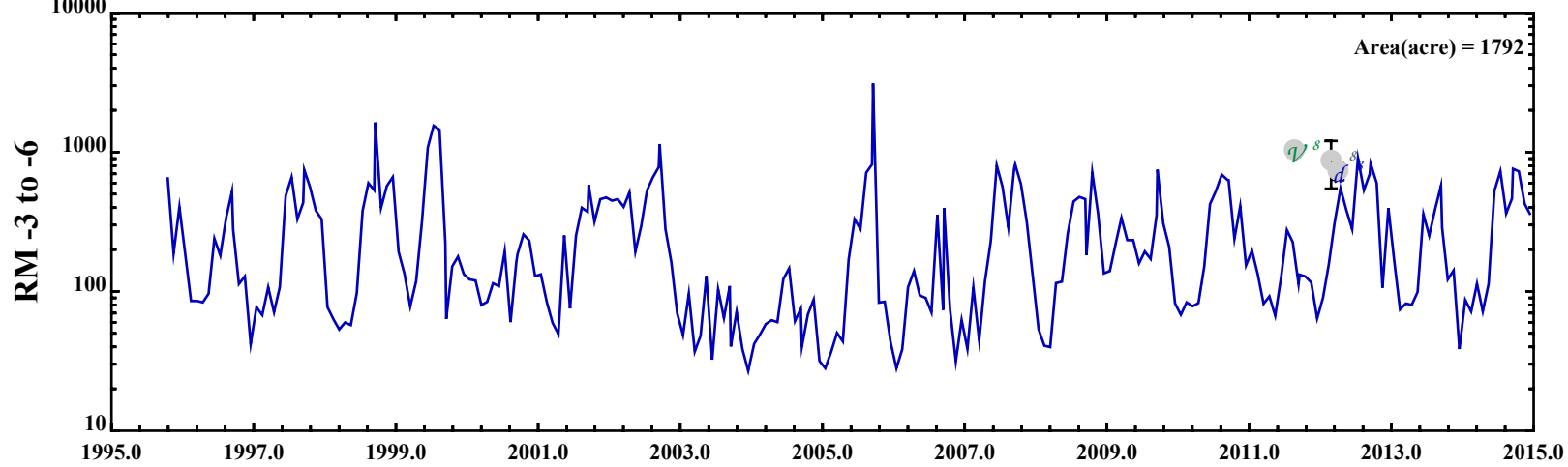
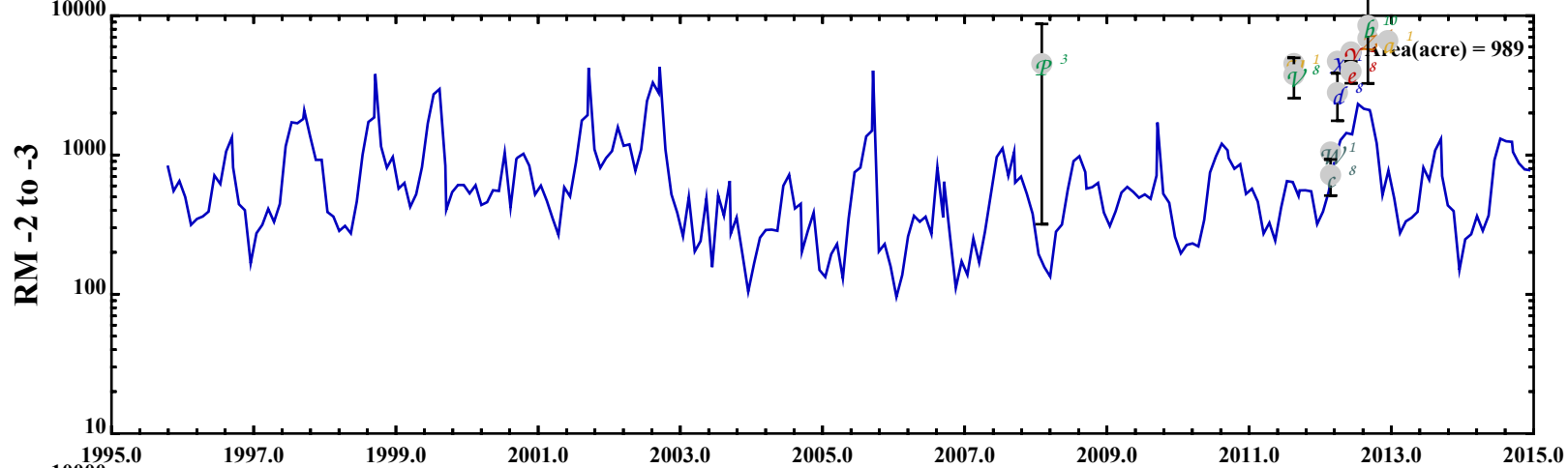
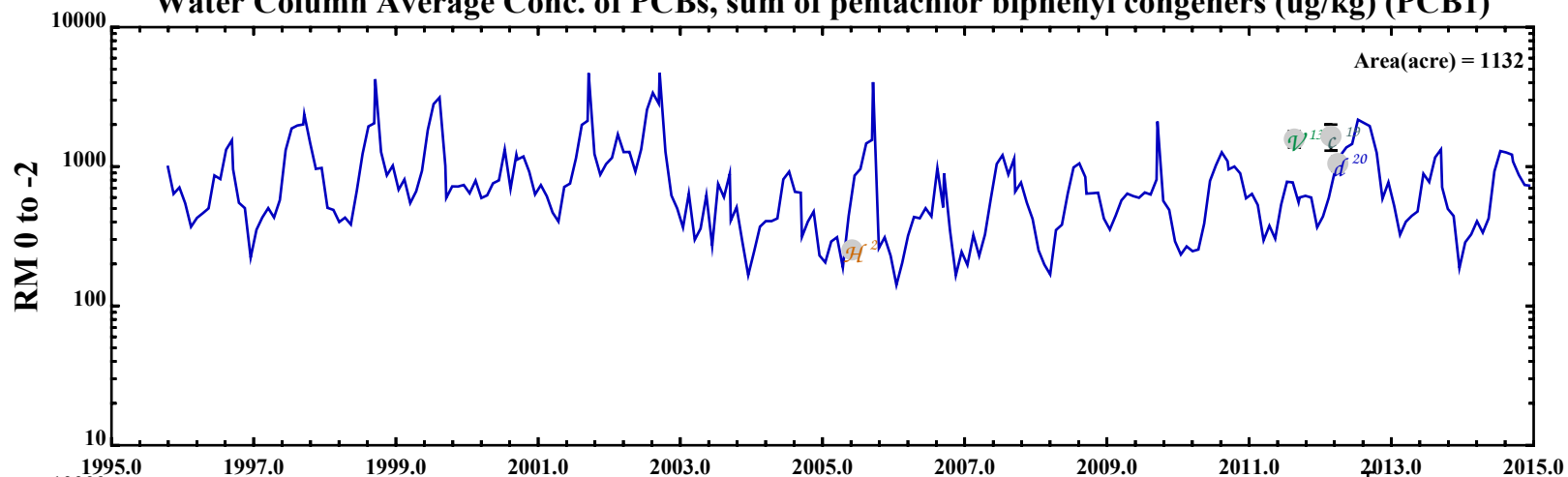
# Water Column Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
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- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

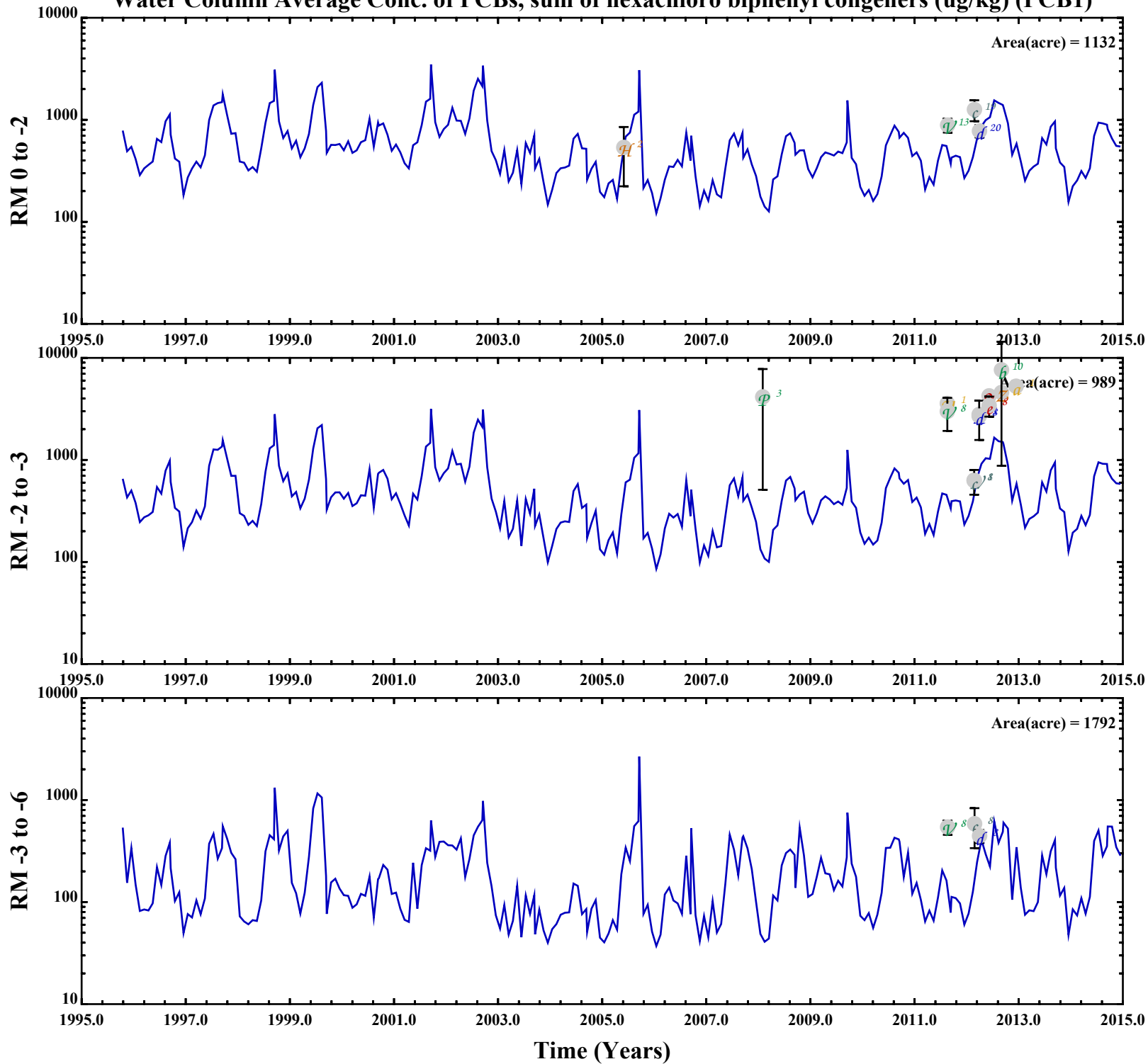


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
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- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)

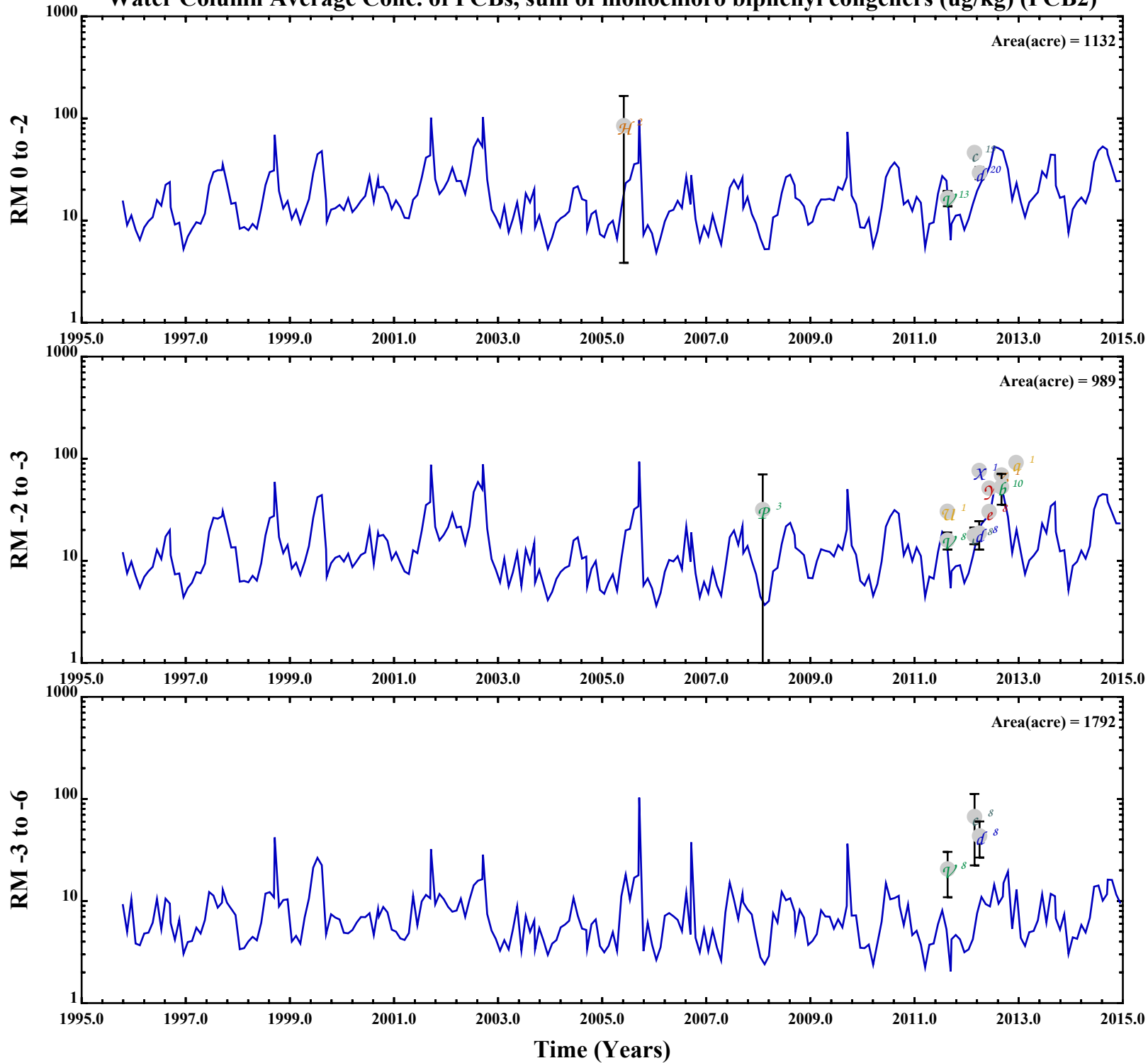


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
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- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
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- U 2011 CDM Smith CWCM Sampling Data
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



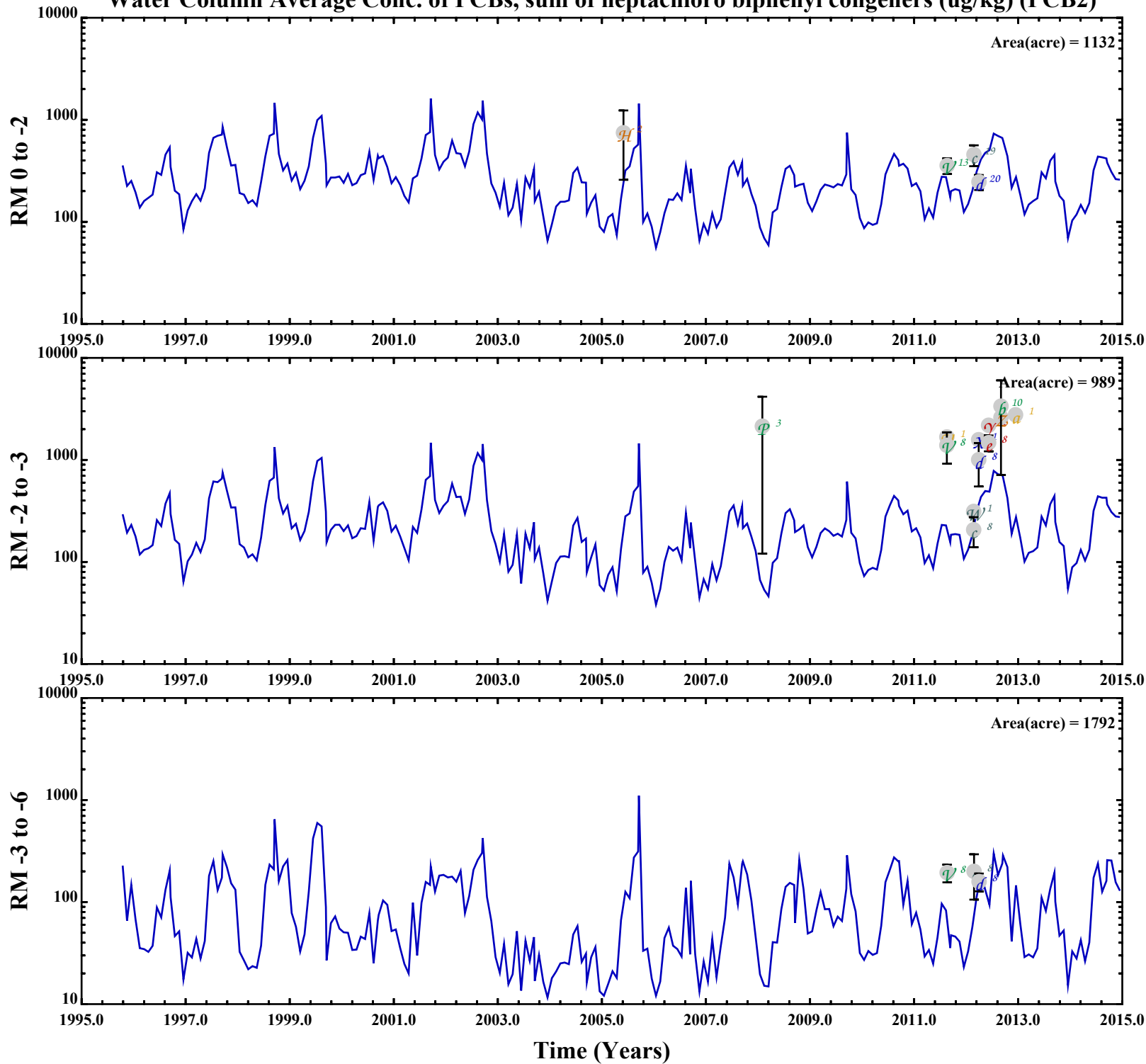
# Water Column Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

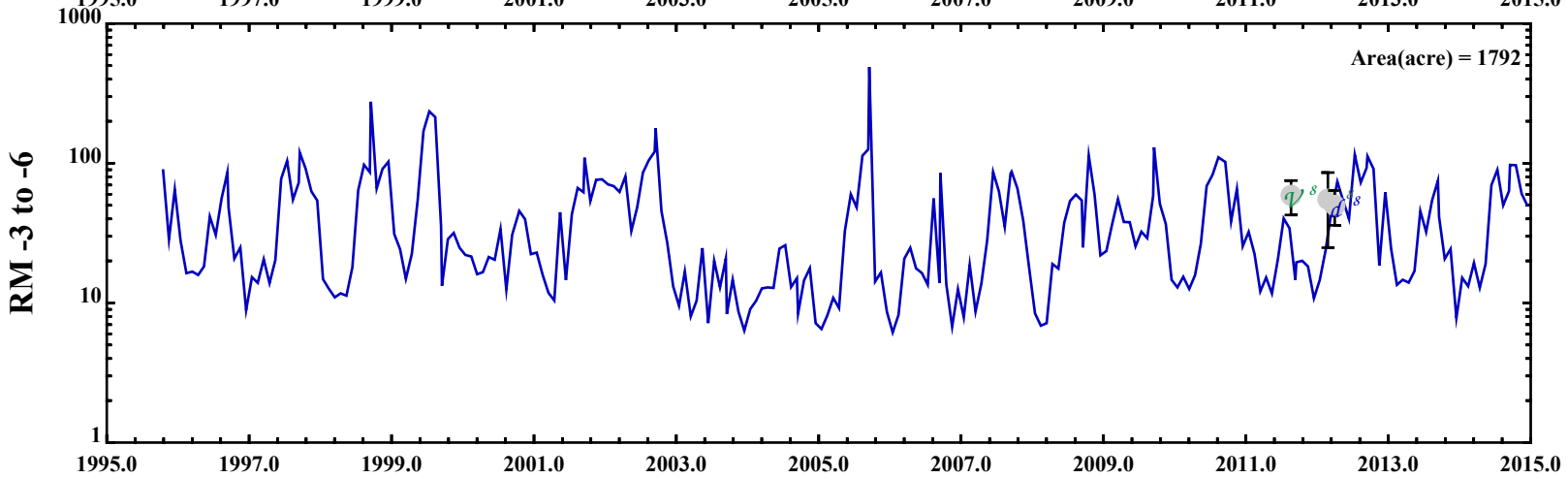
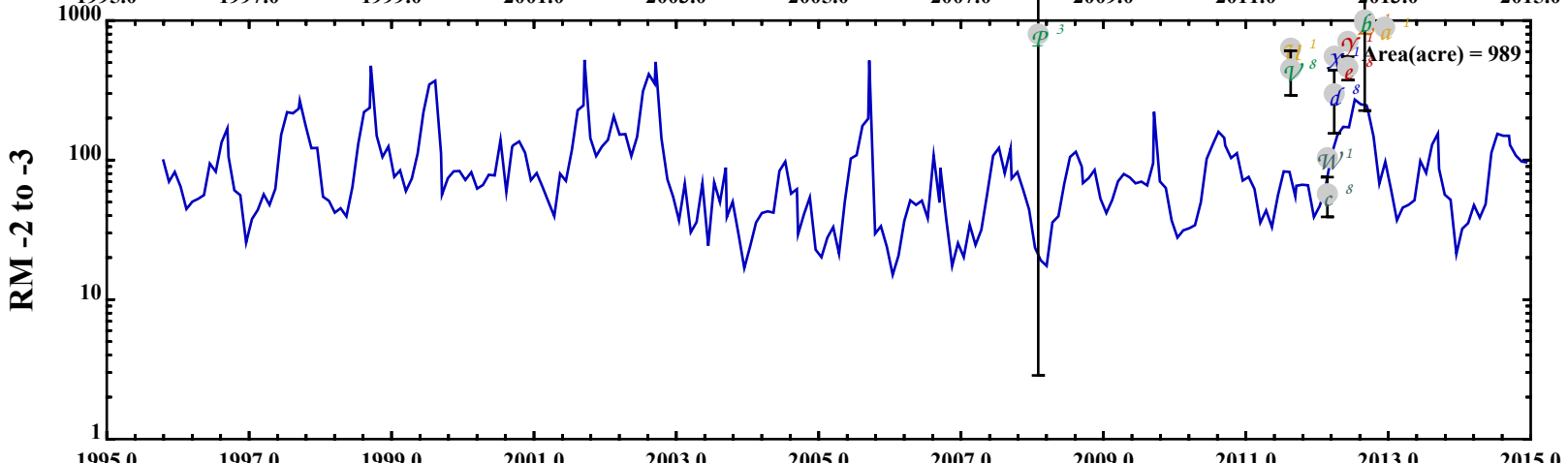
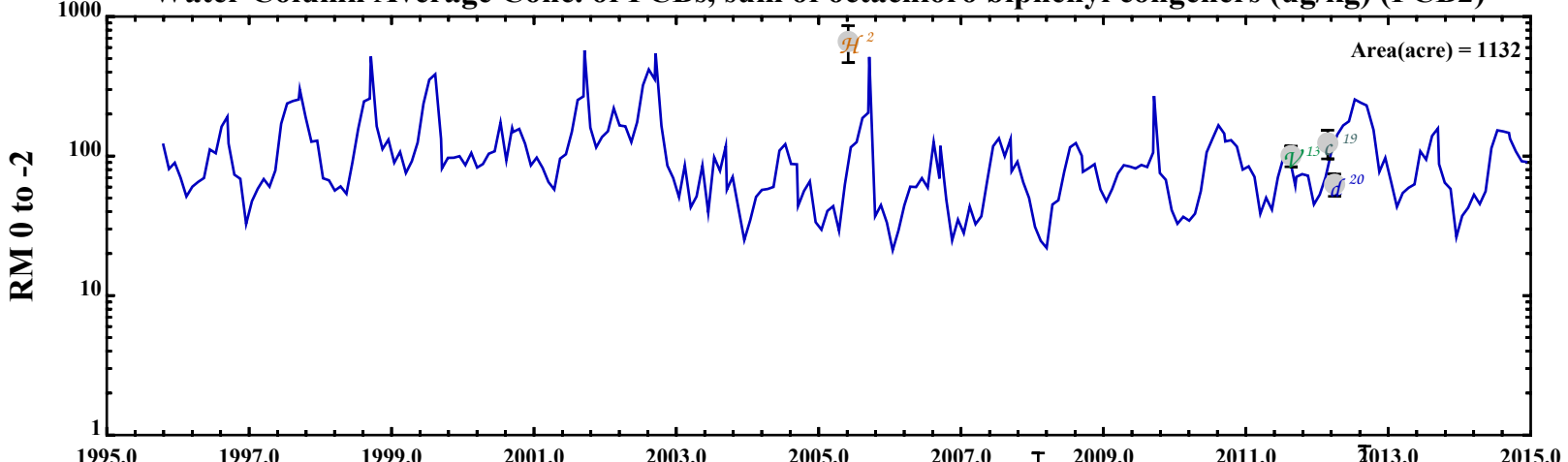
# Water Column Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- Q* 2009 CPG LPR Water Column Monitoring DEC
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

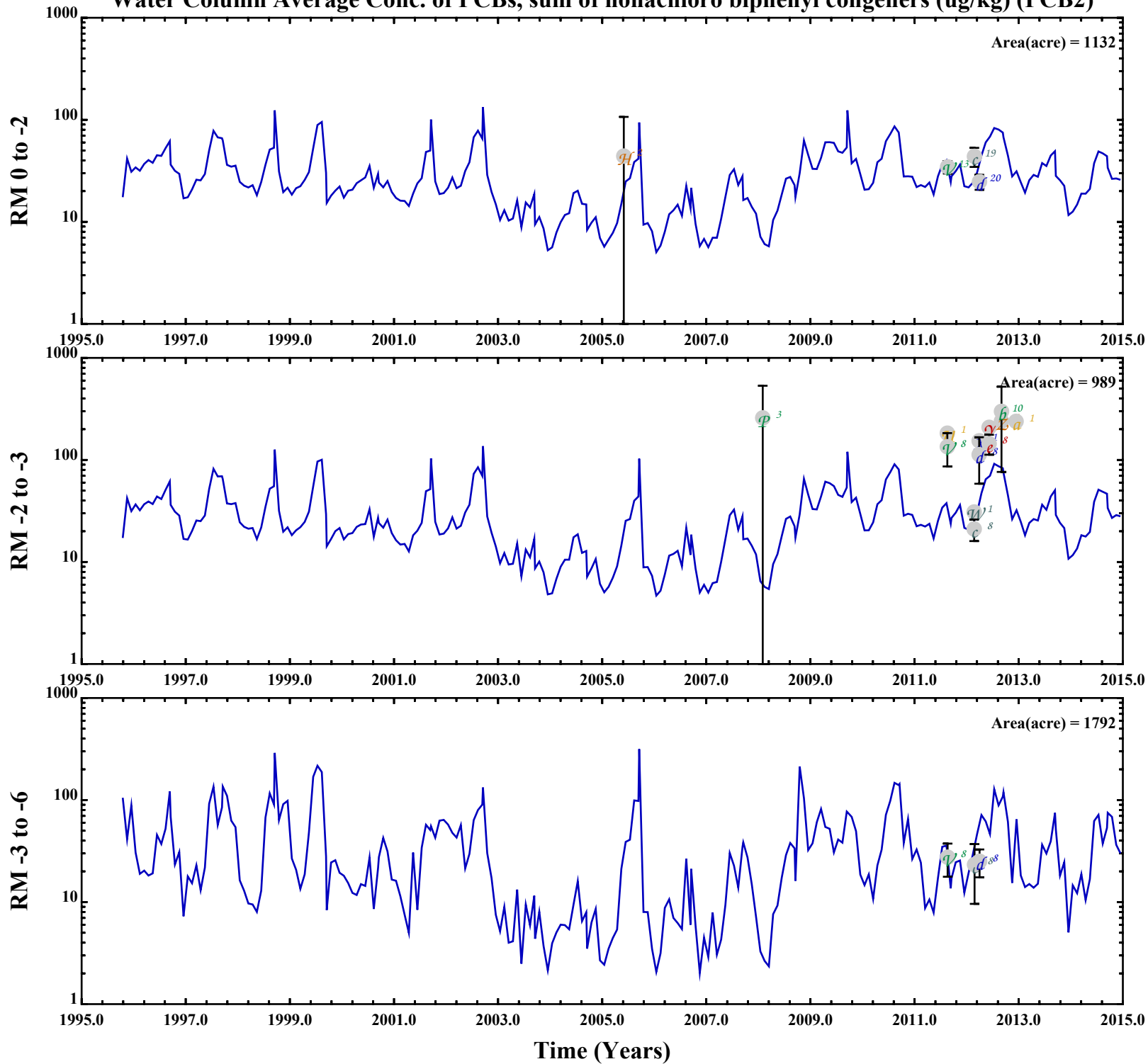


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

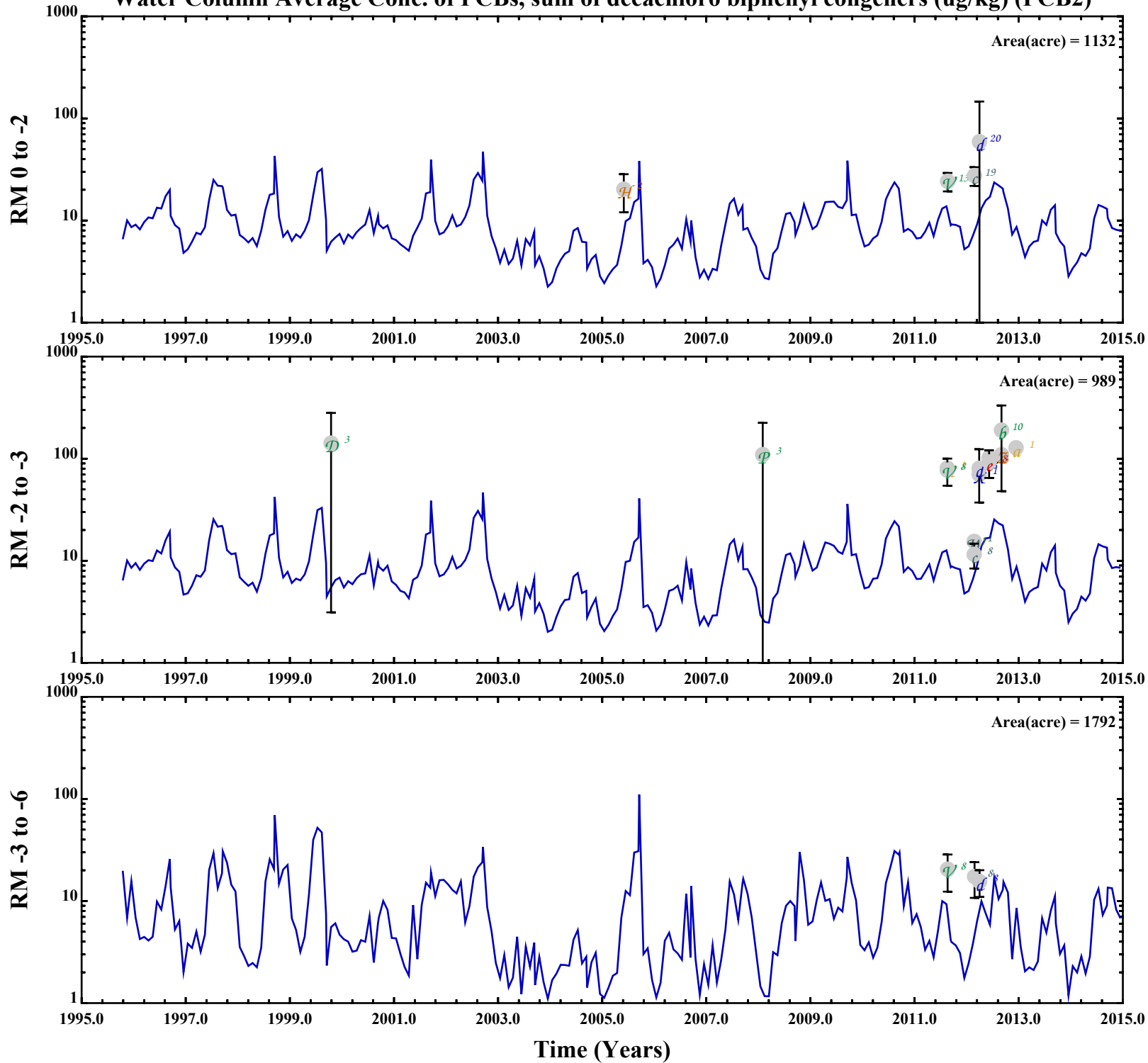
# Water Column Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FIS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

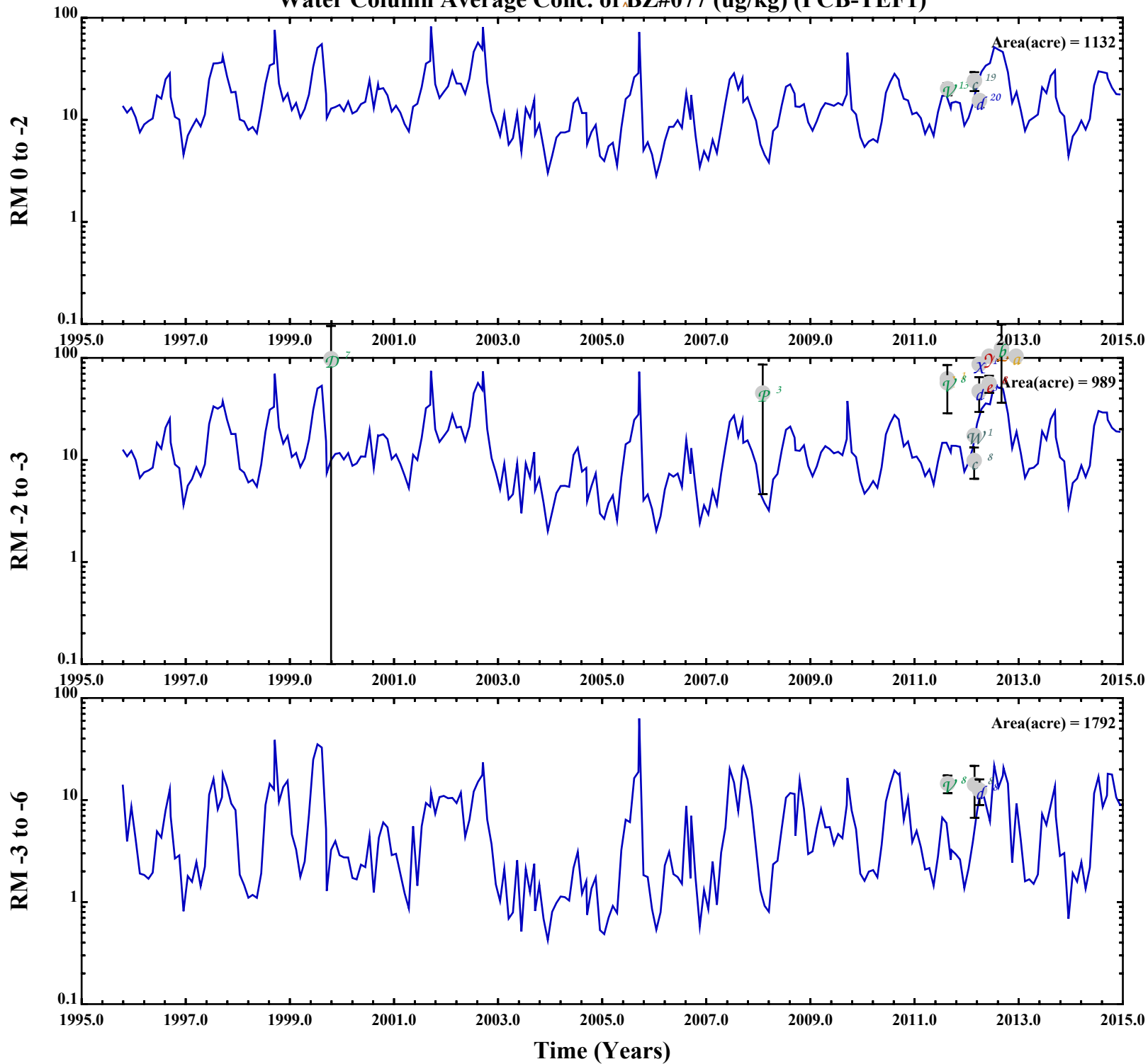
# Water Column Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

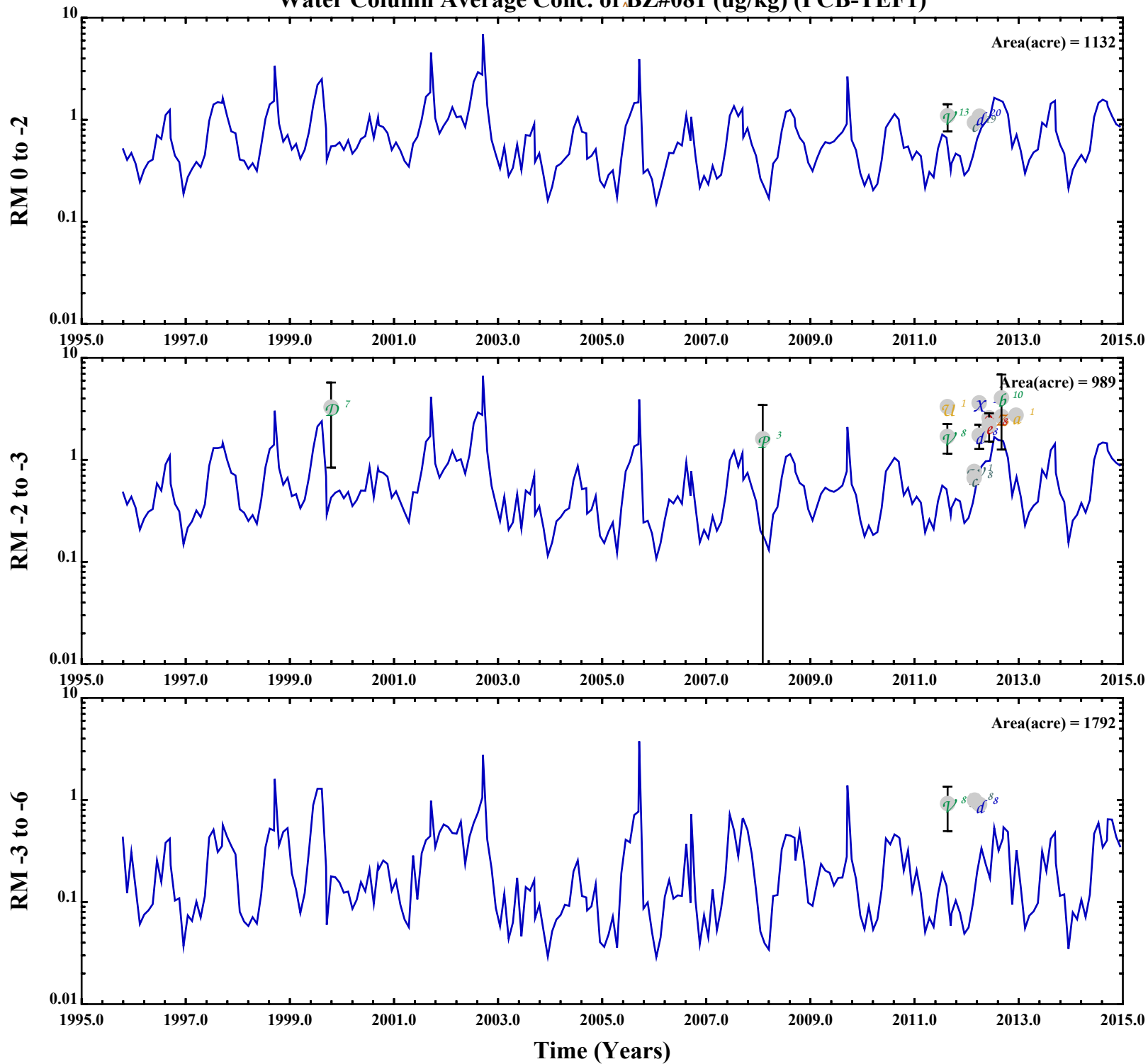
# Water Column Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

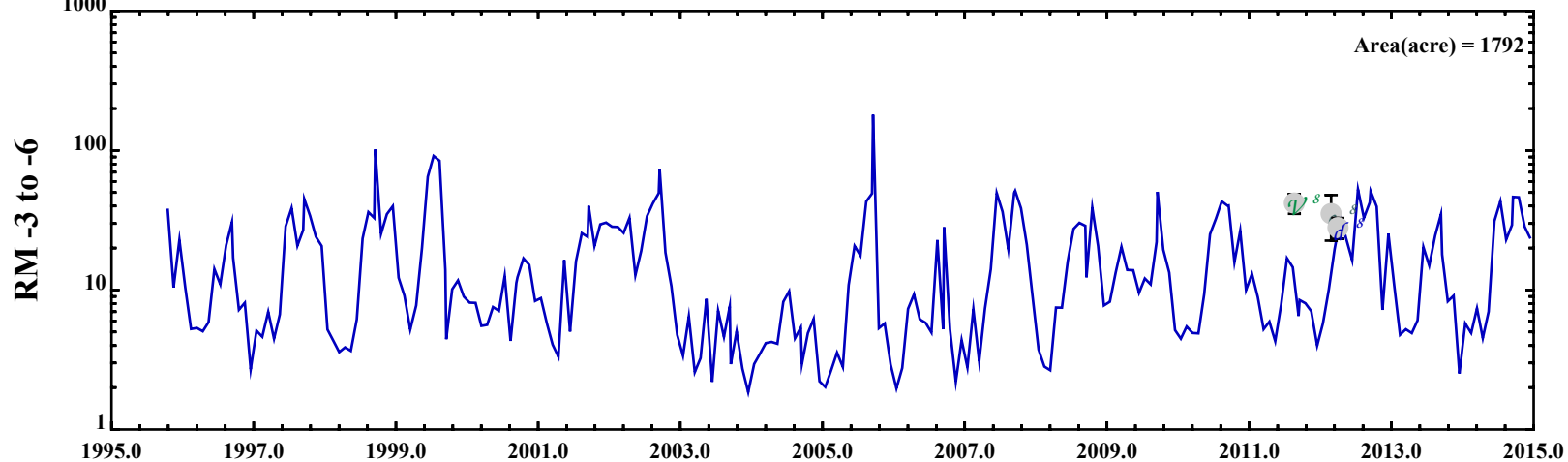
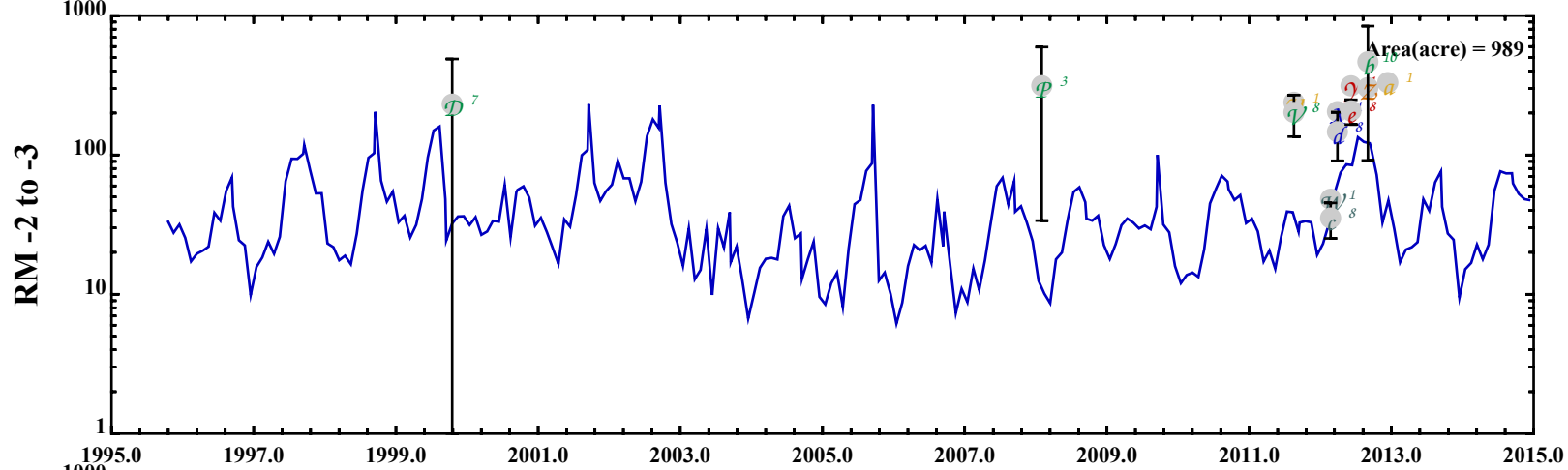
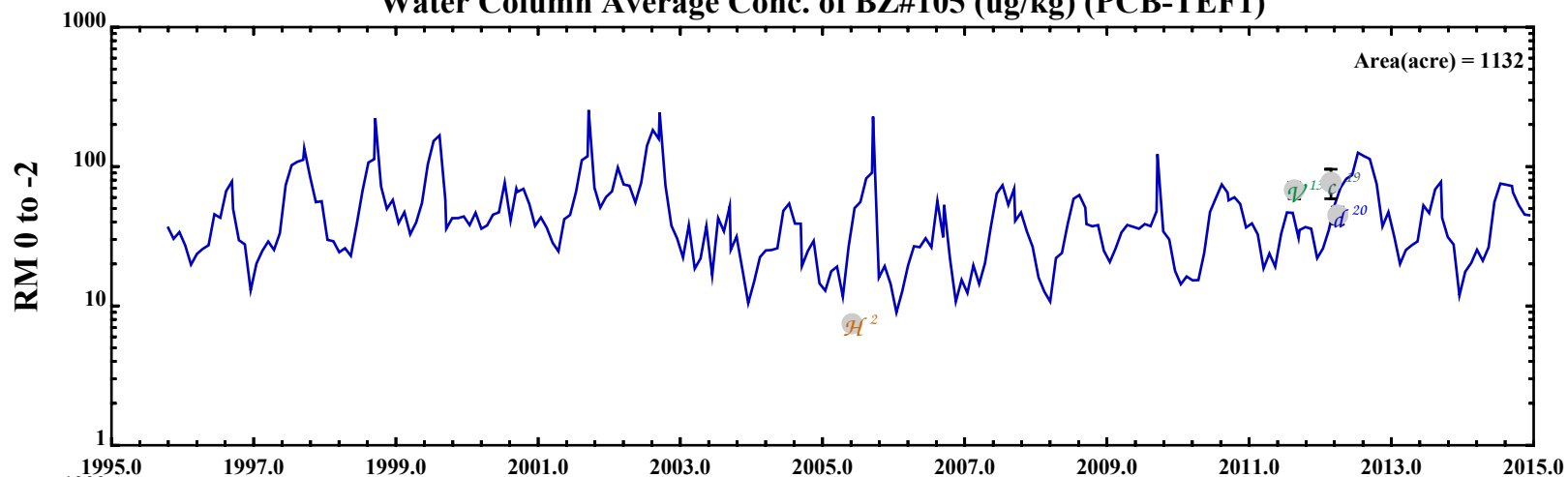
— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 Newark Bay Reach ABCD Baseline Sampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up**

# Water Column Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



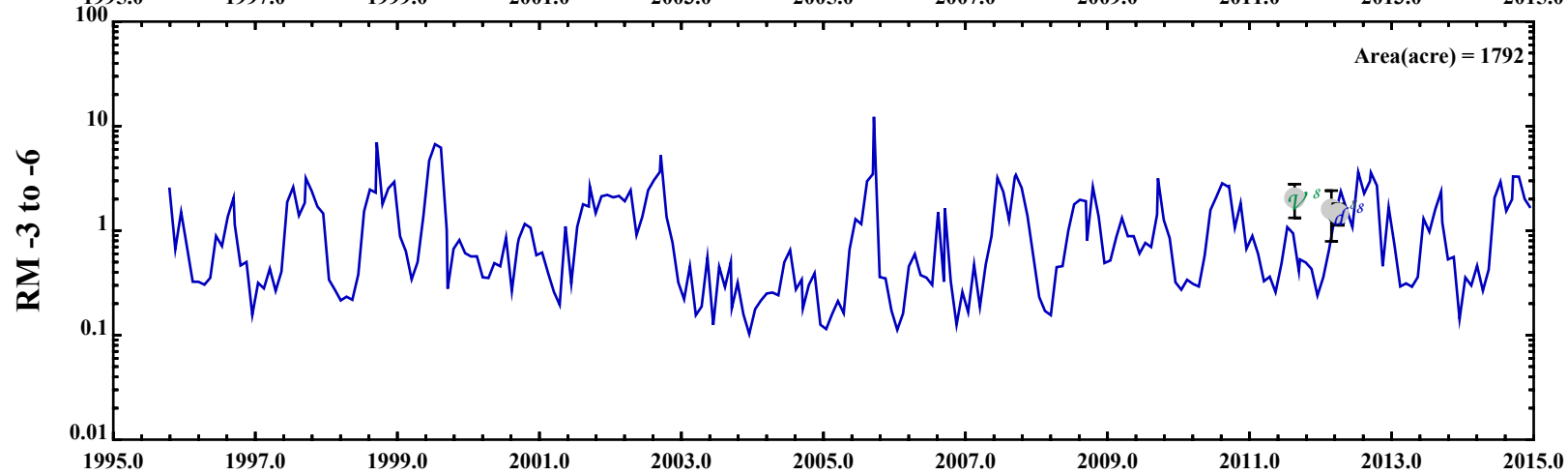
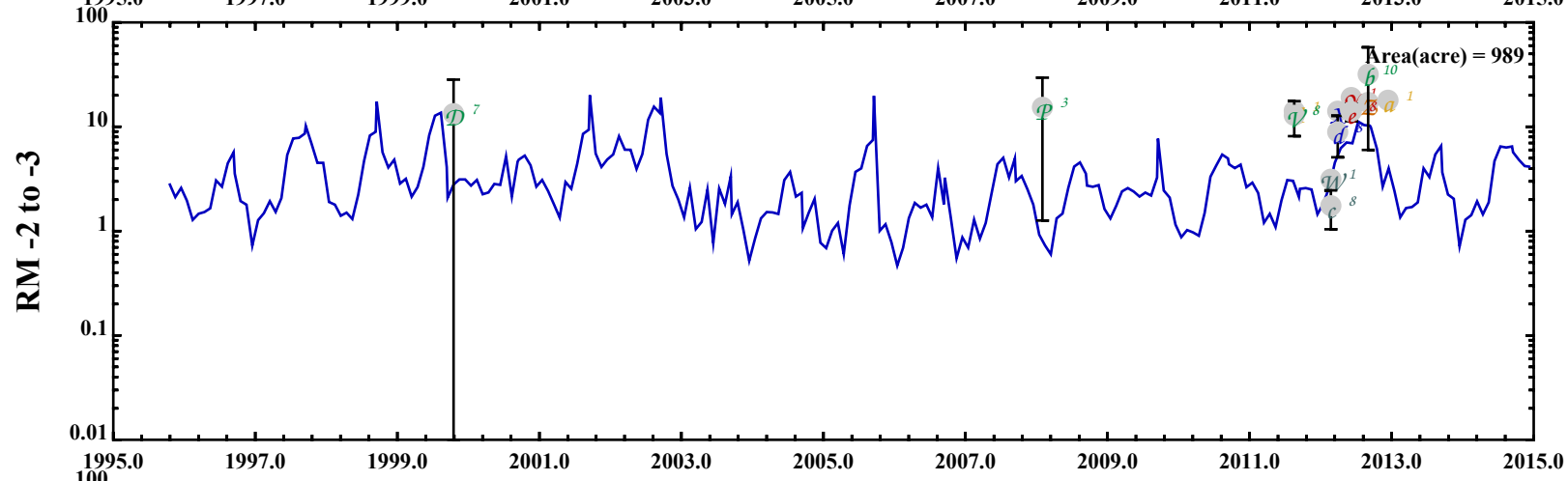
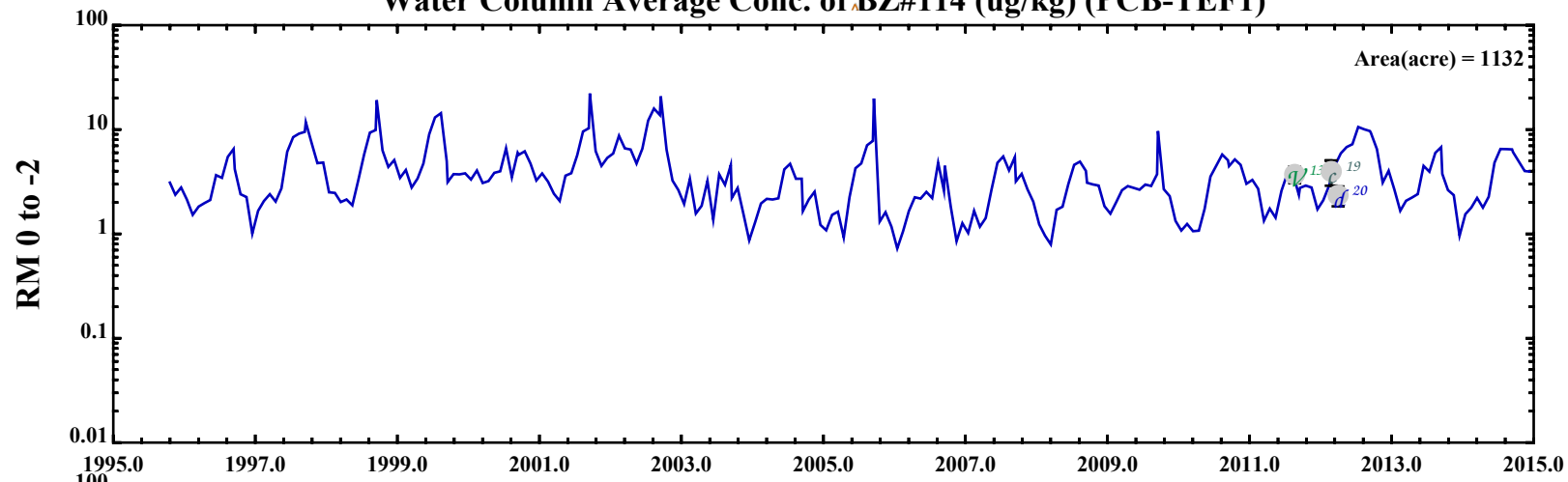
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)



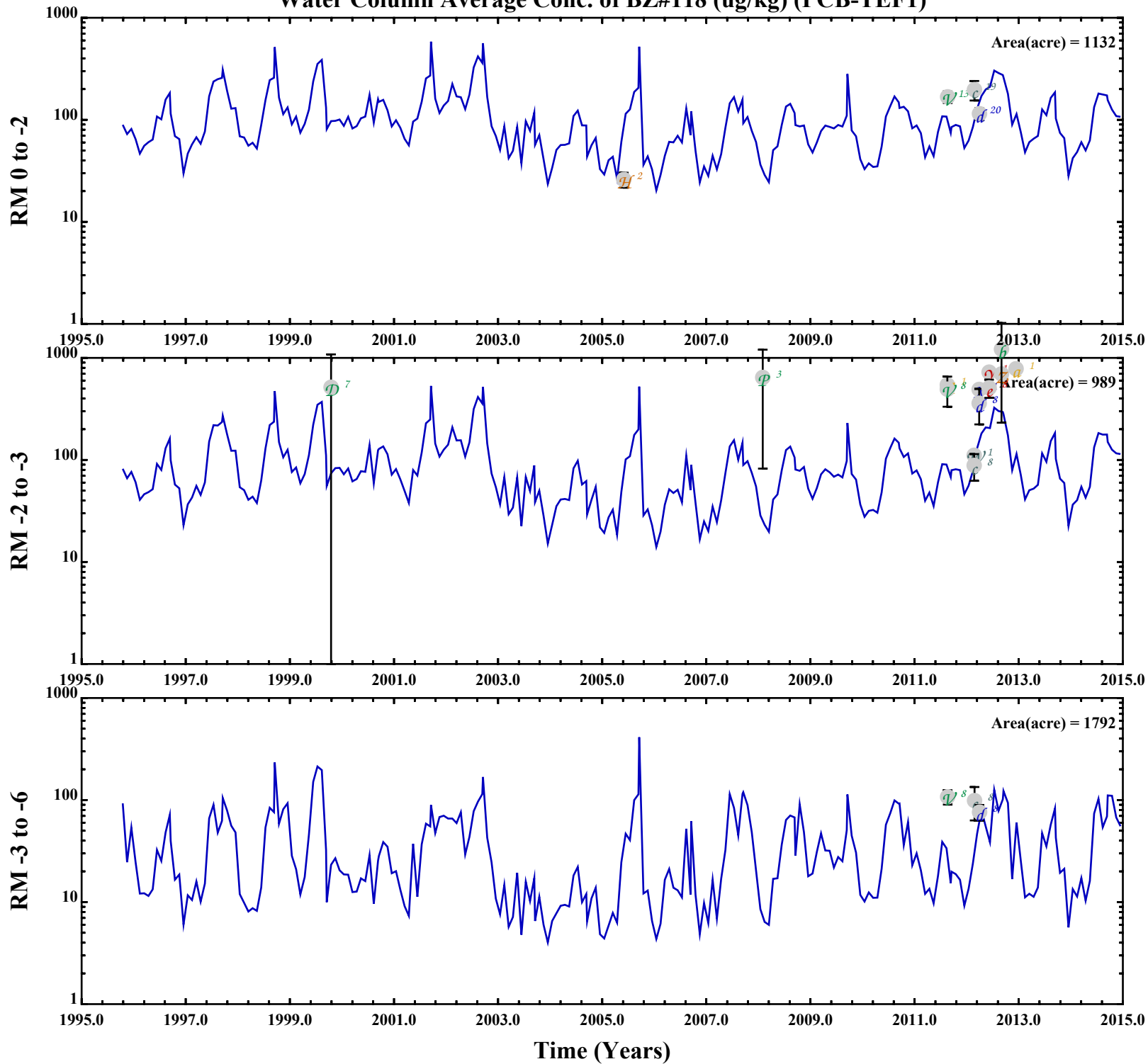
# Water Column Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



Time (Years)

- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up

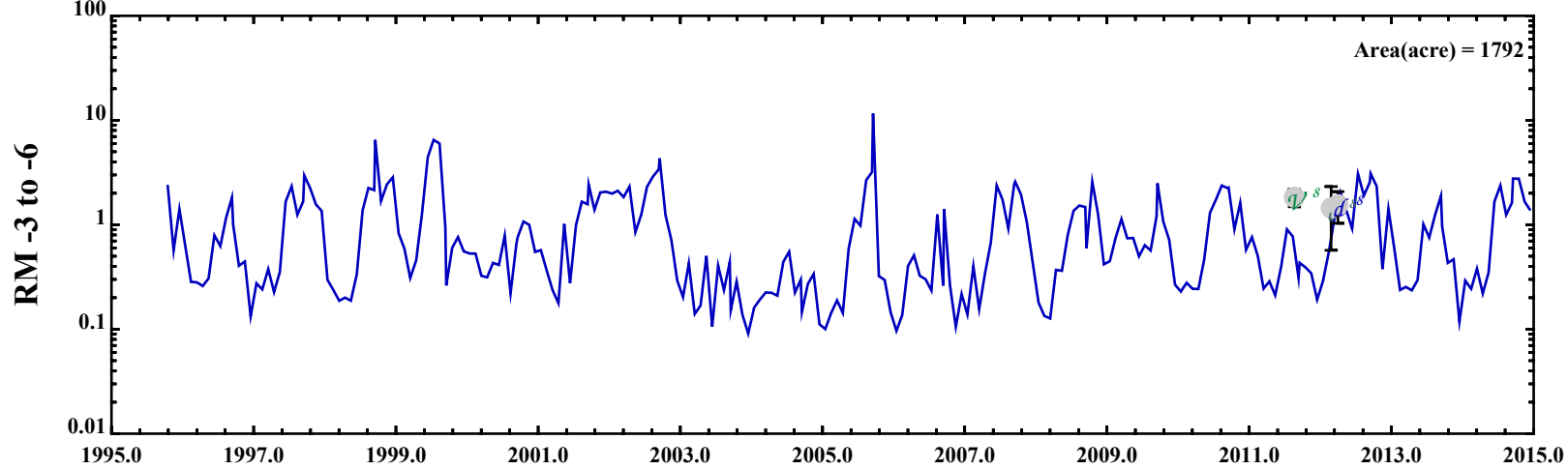
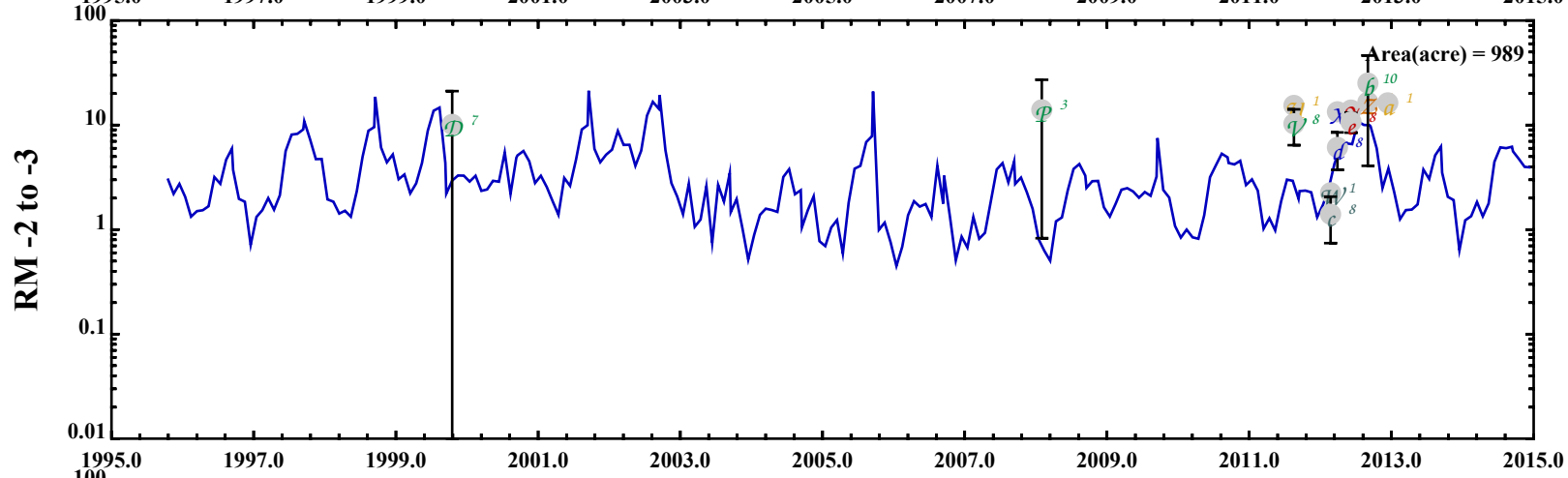
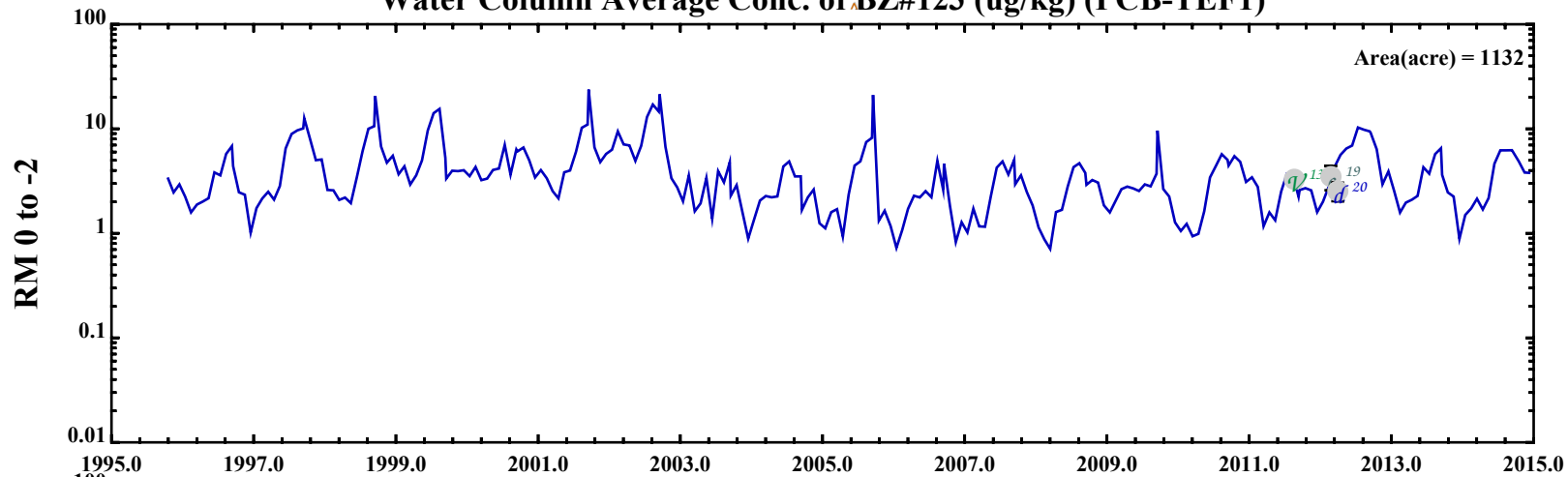
# Water Column Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)

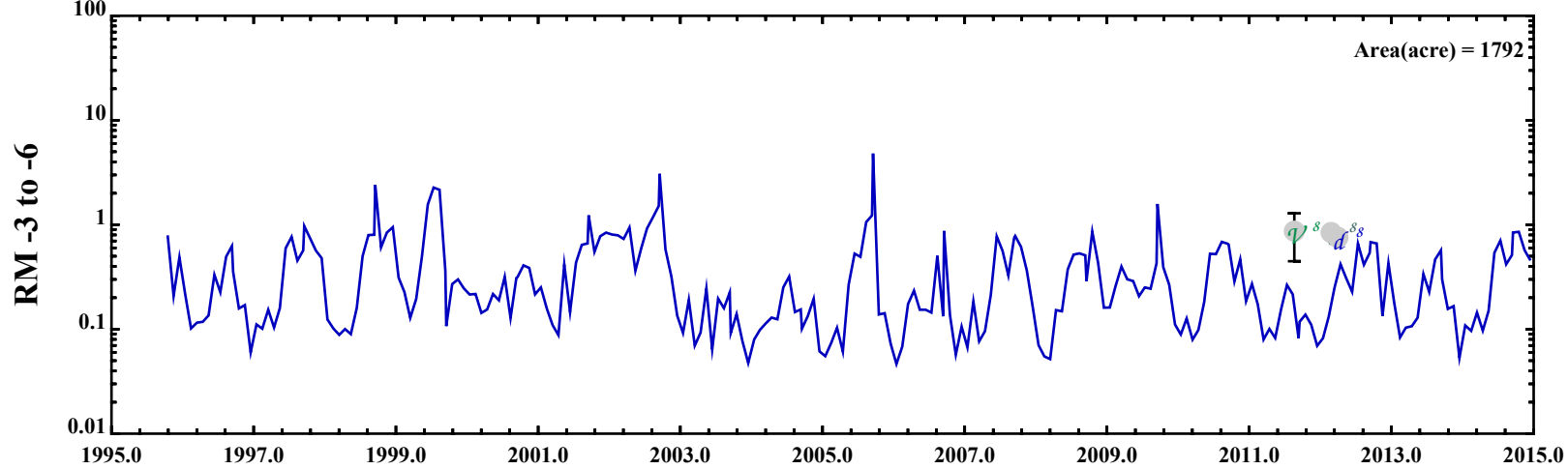
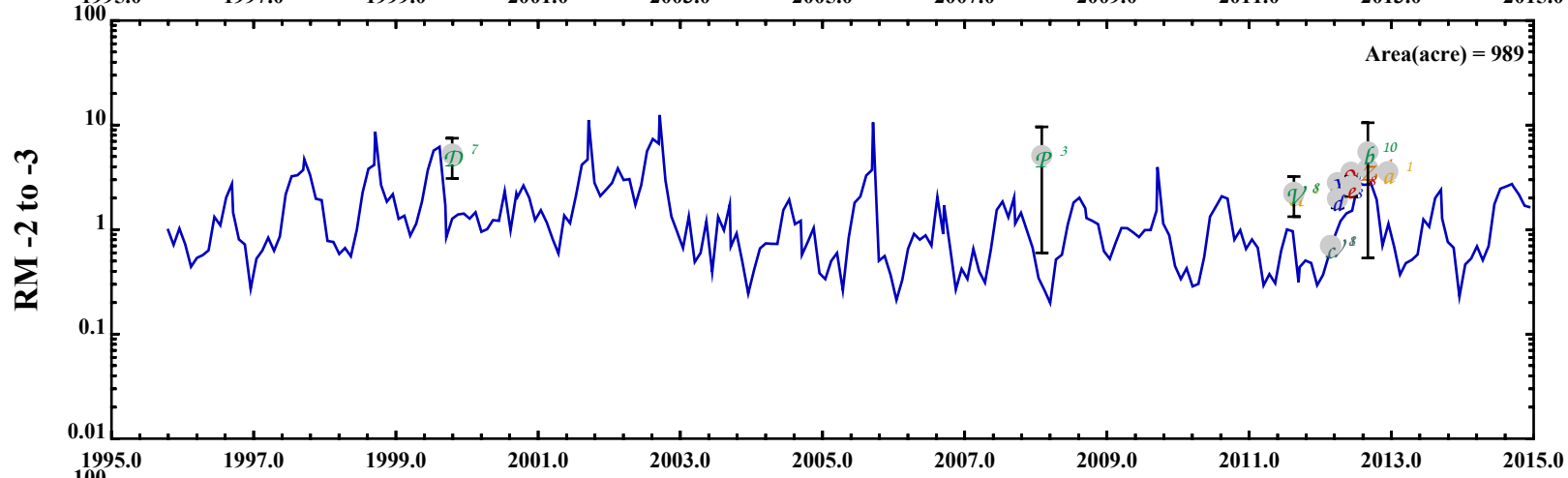
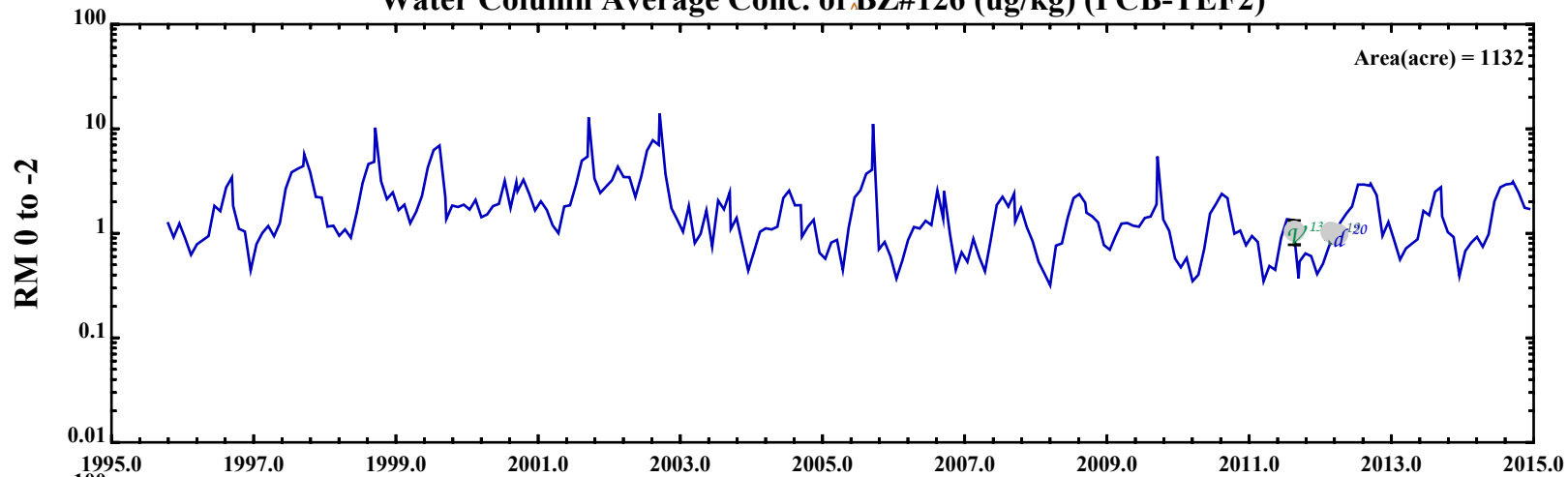


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

# Water Column Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

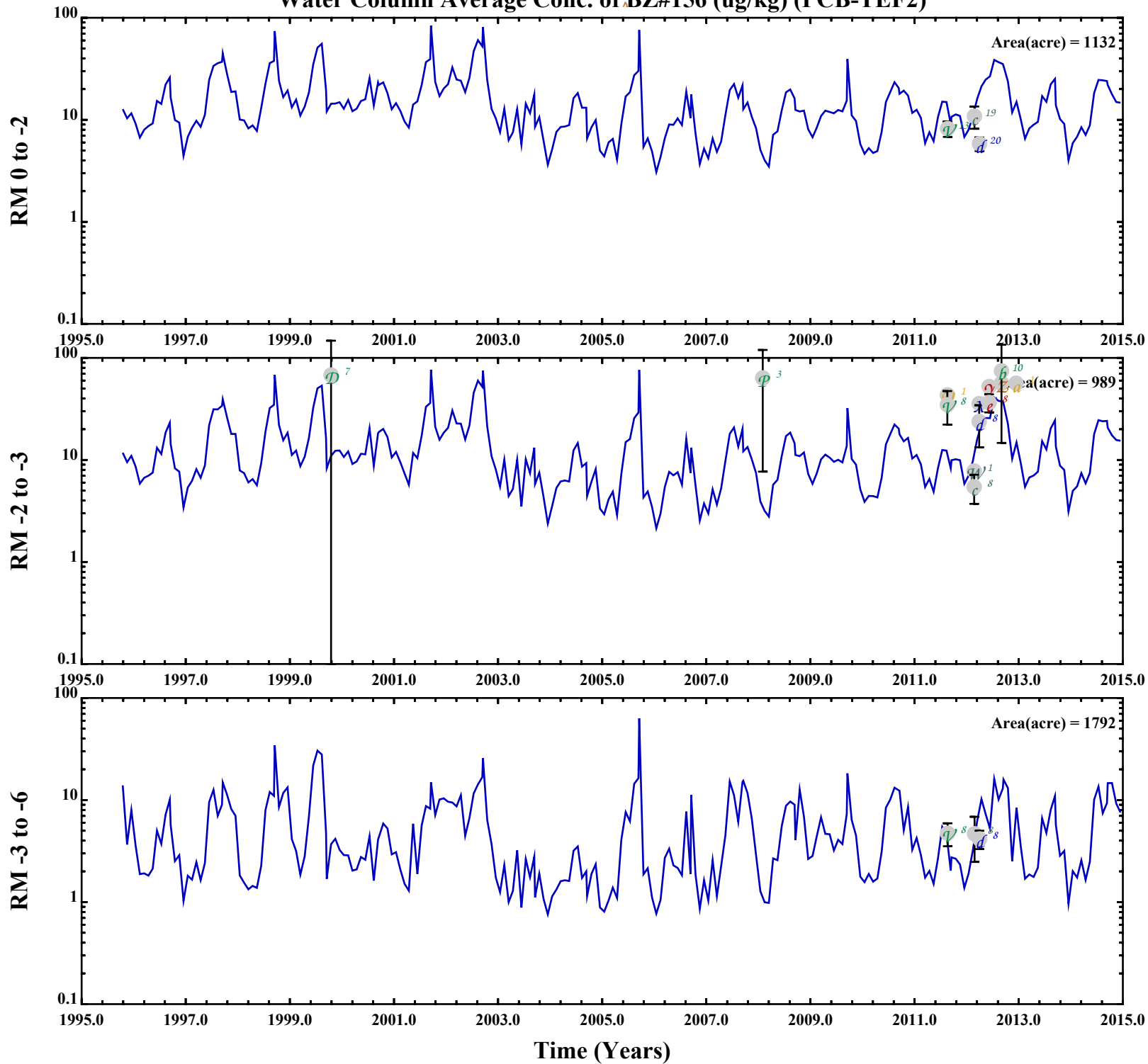


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 Newark Bay Reach ABCD Baseline Sampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

Time (Years)

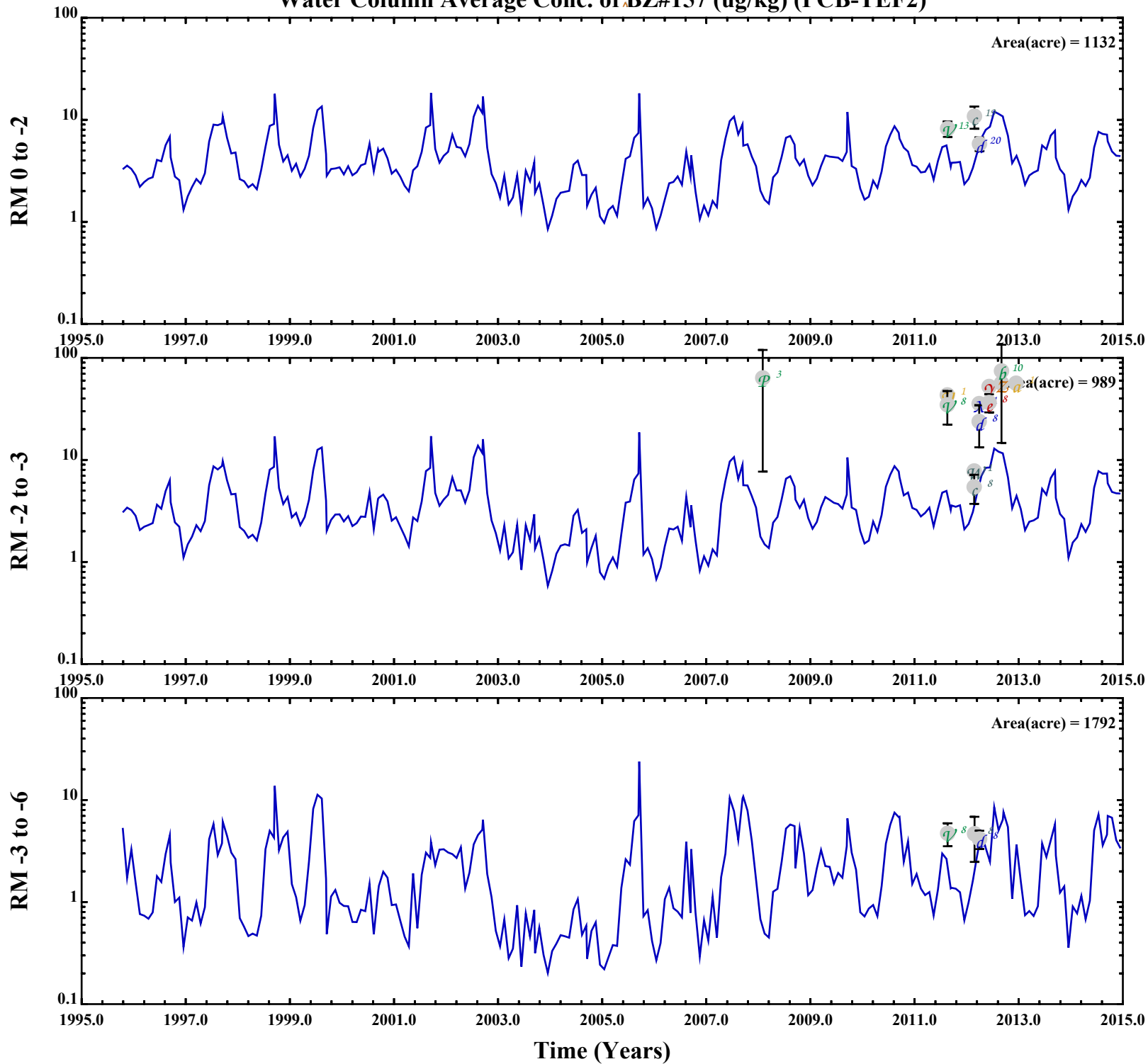
# Water Column Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

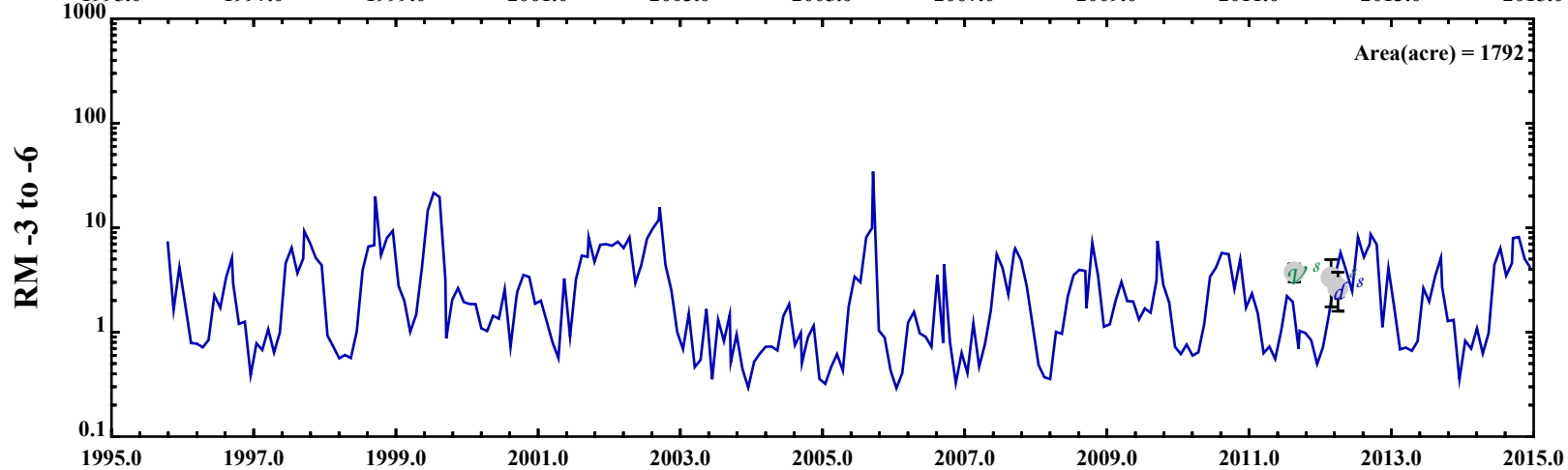
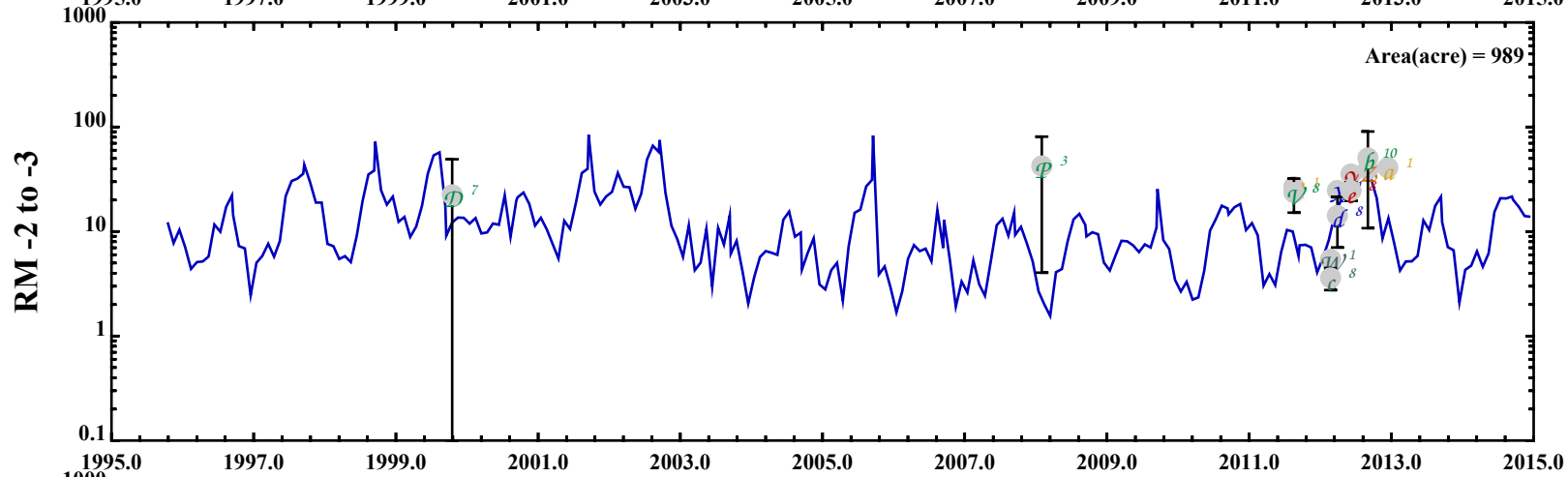
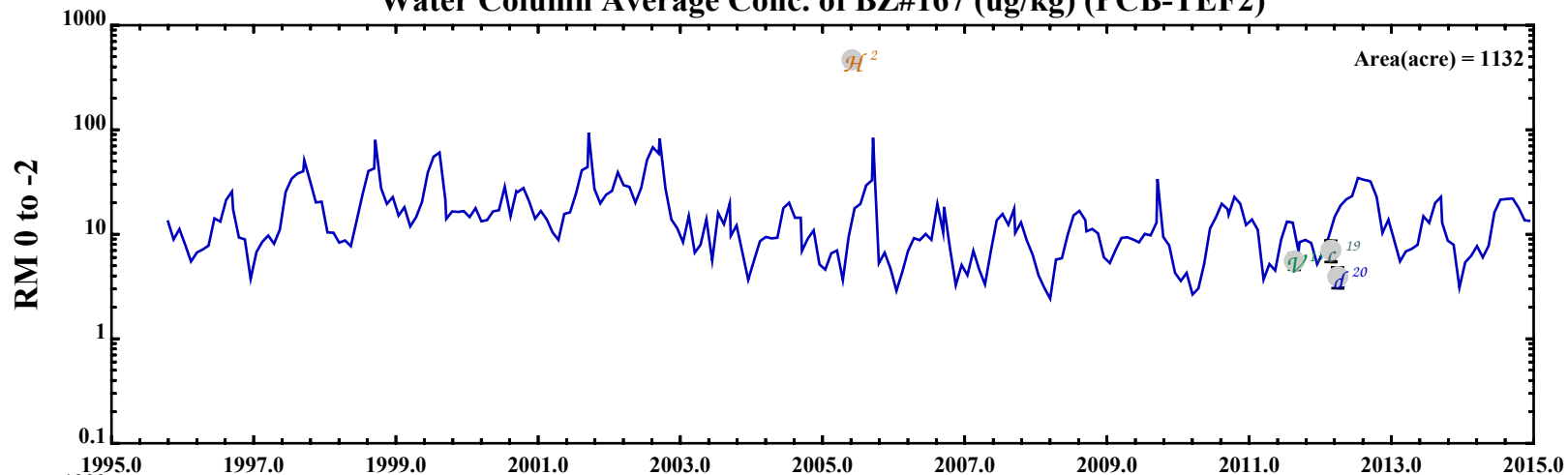
# Water Column Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)

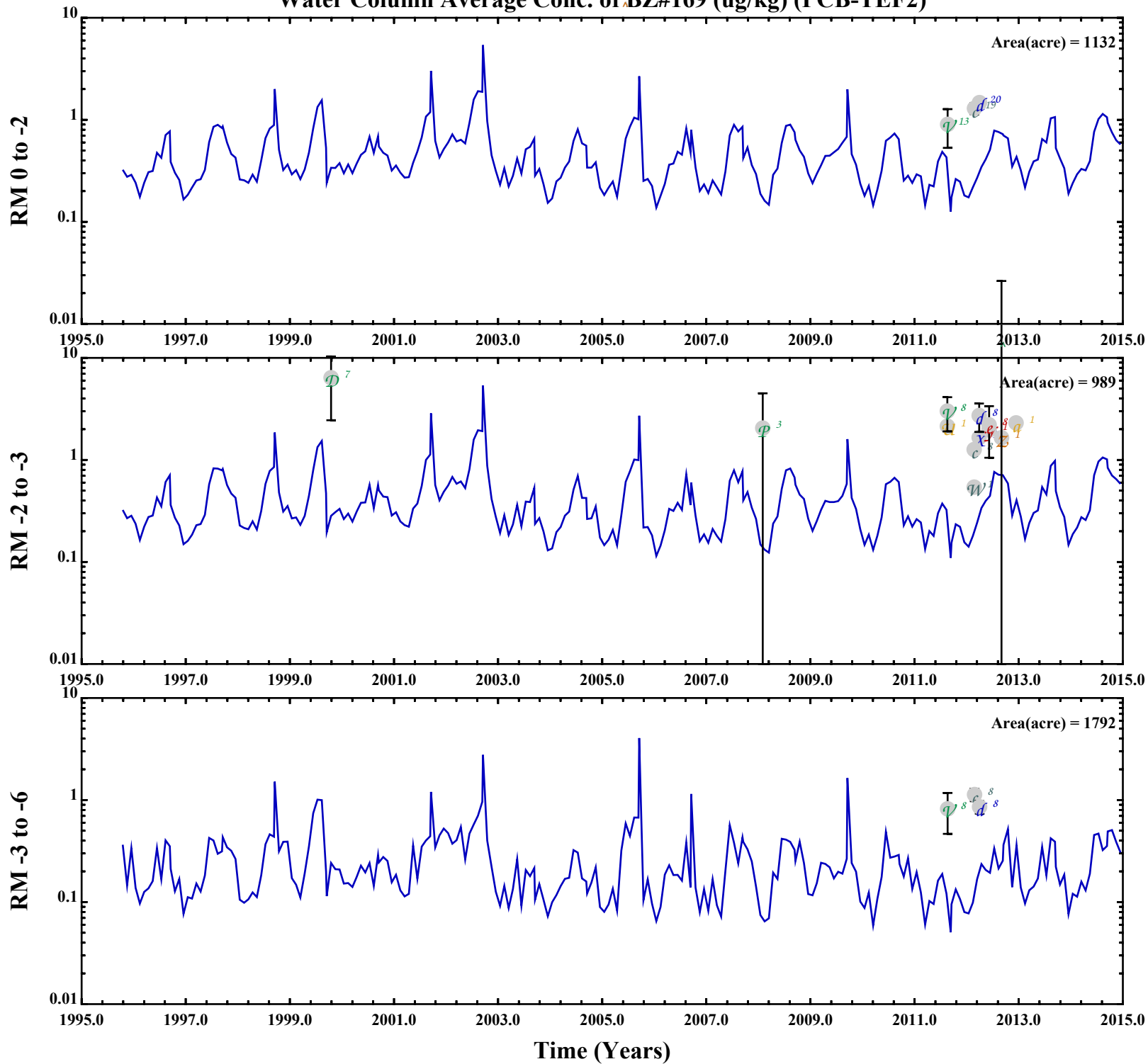


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 Newark Bay Reach ABCD Baseline Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

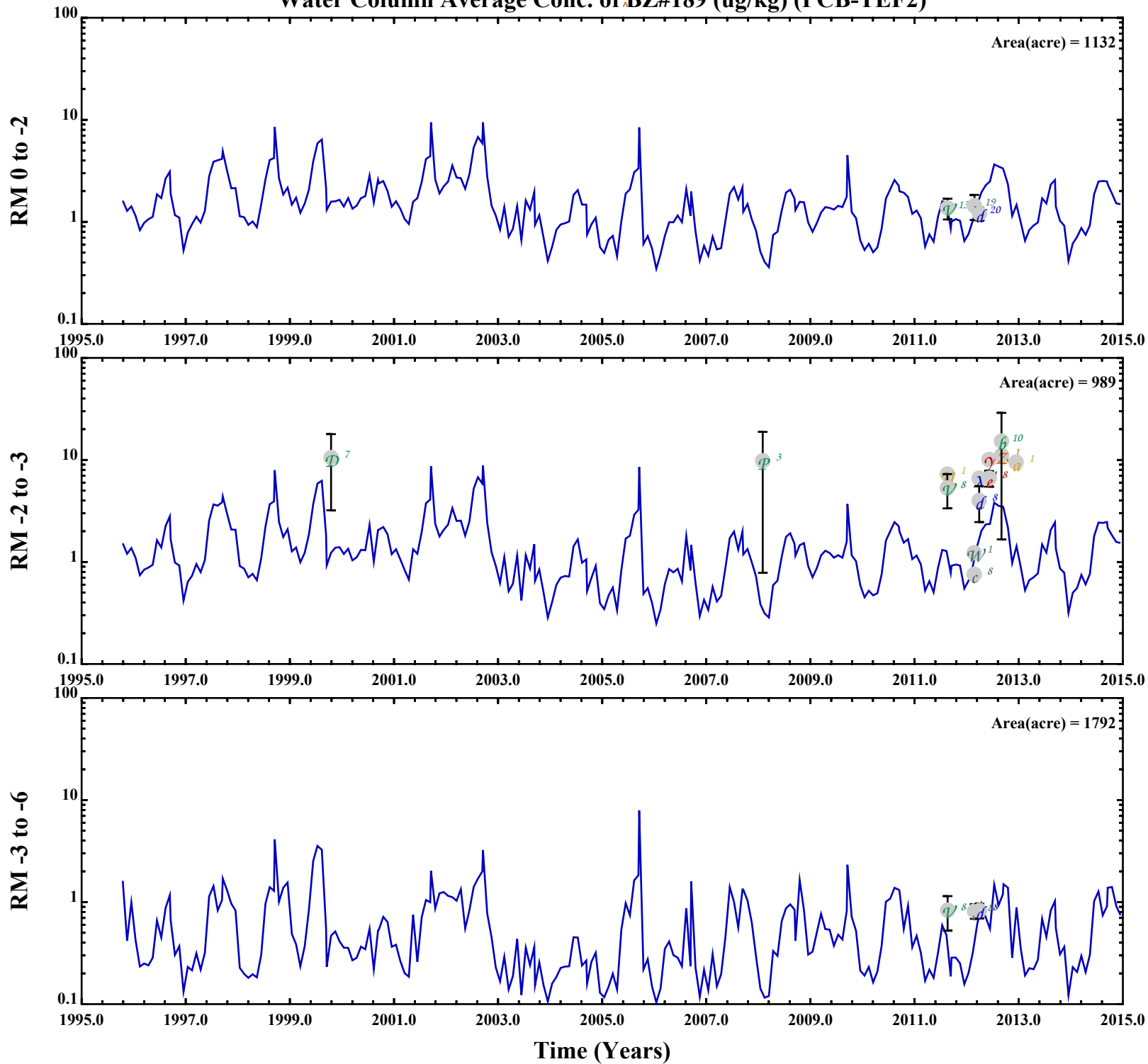
Time (Years)

# Water Column Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)





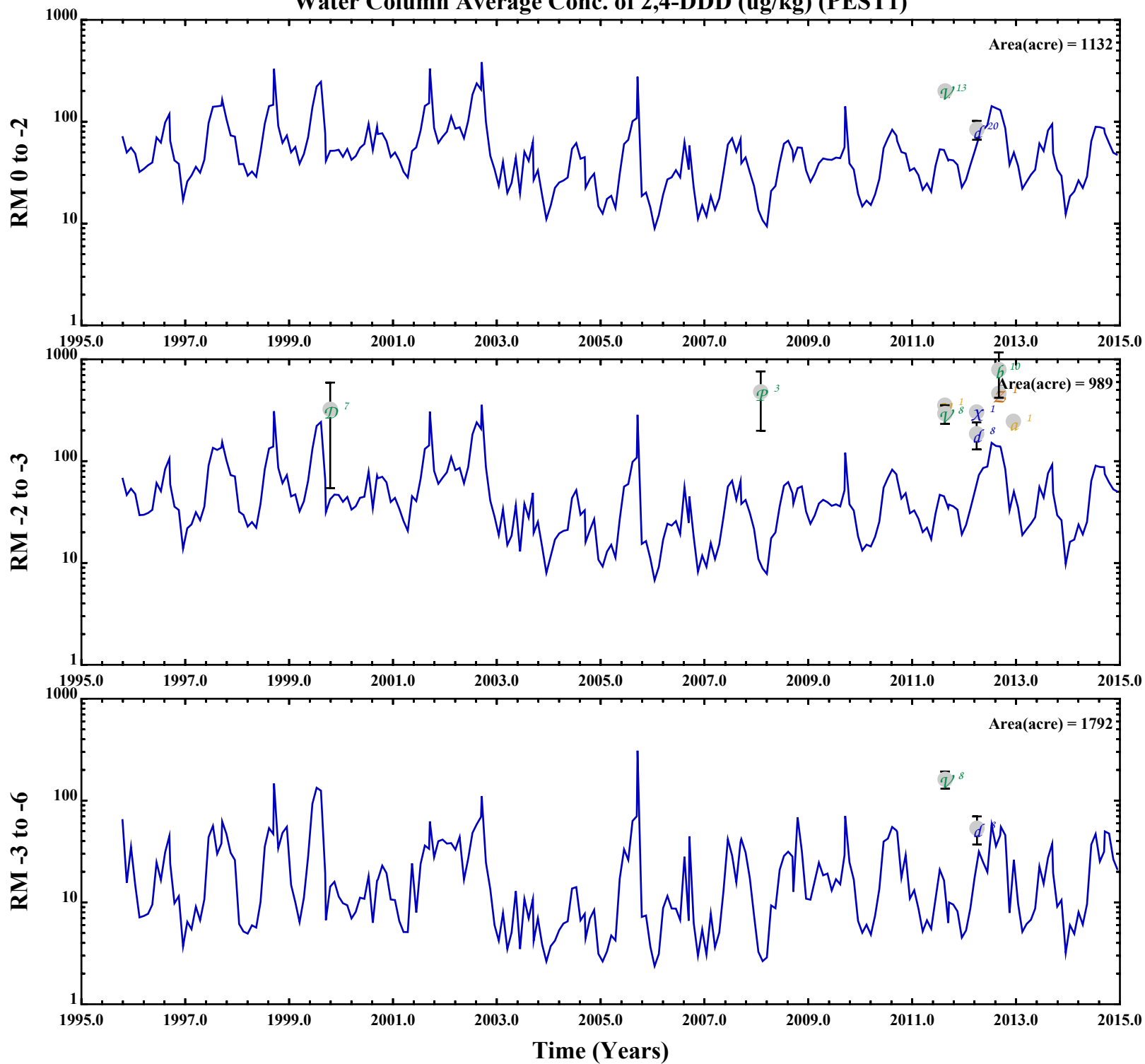
# Water Column Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

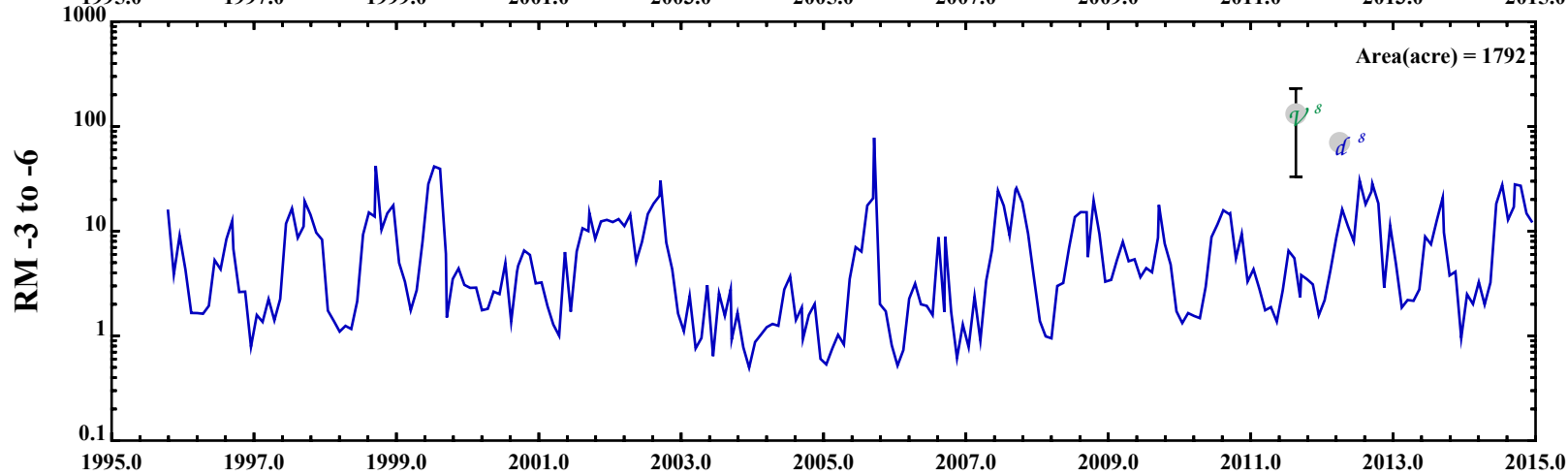
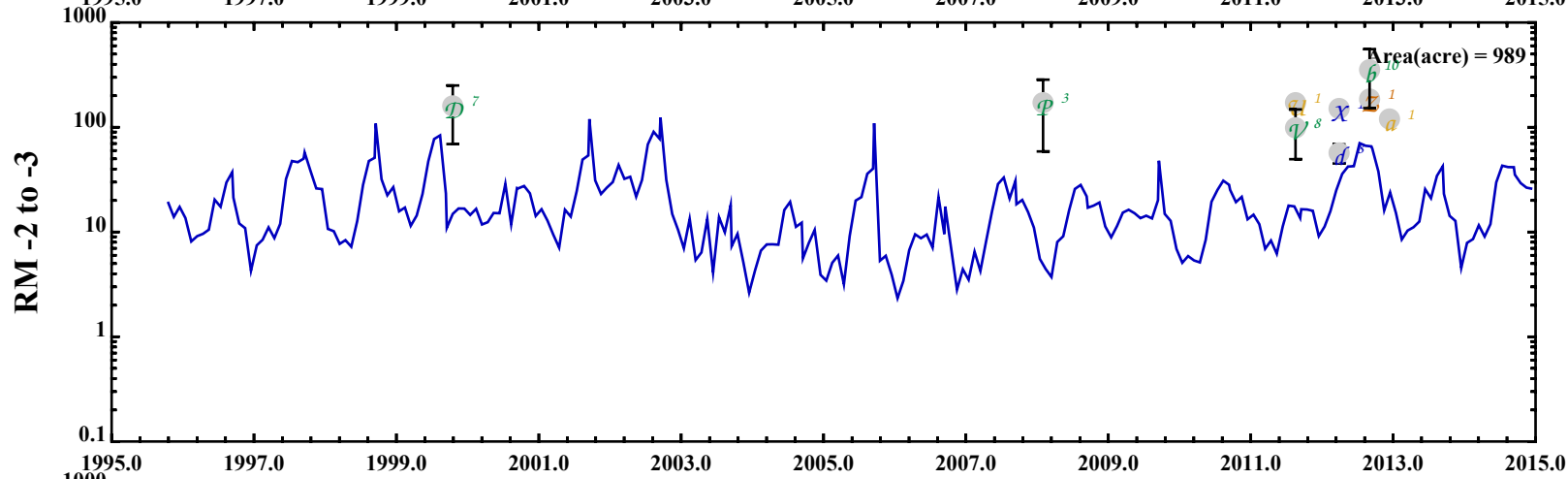
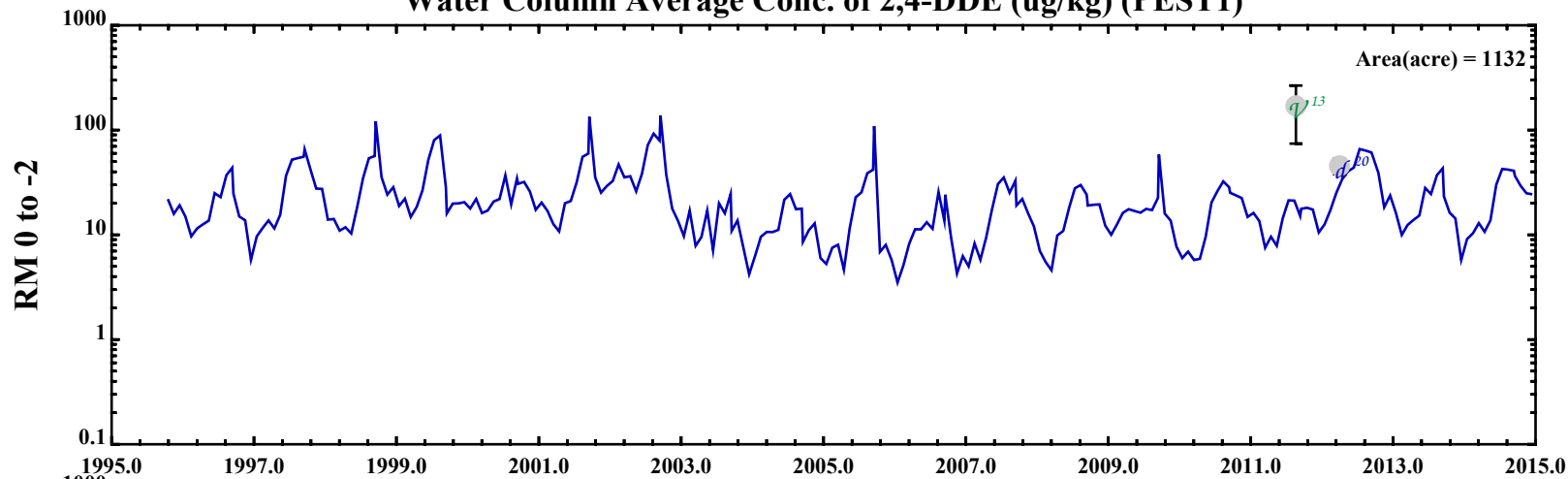
# Water Column Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of 2,4-DDE (ug/kg) (PEST1)

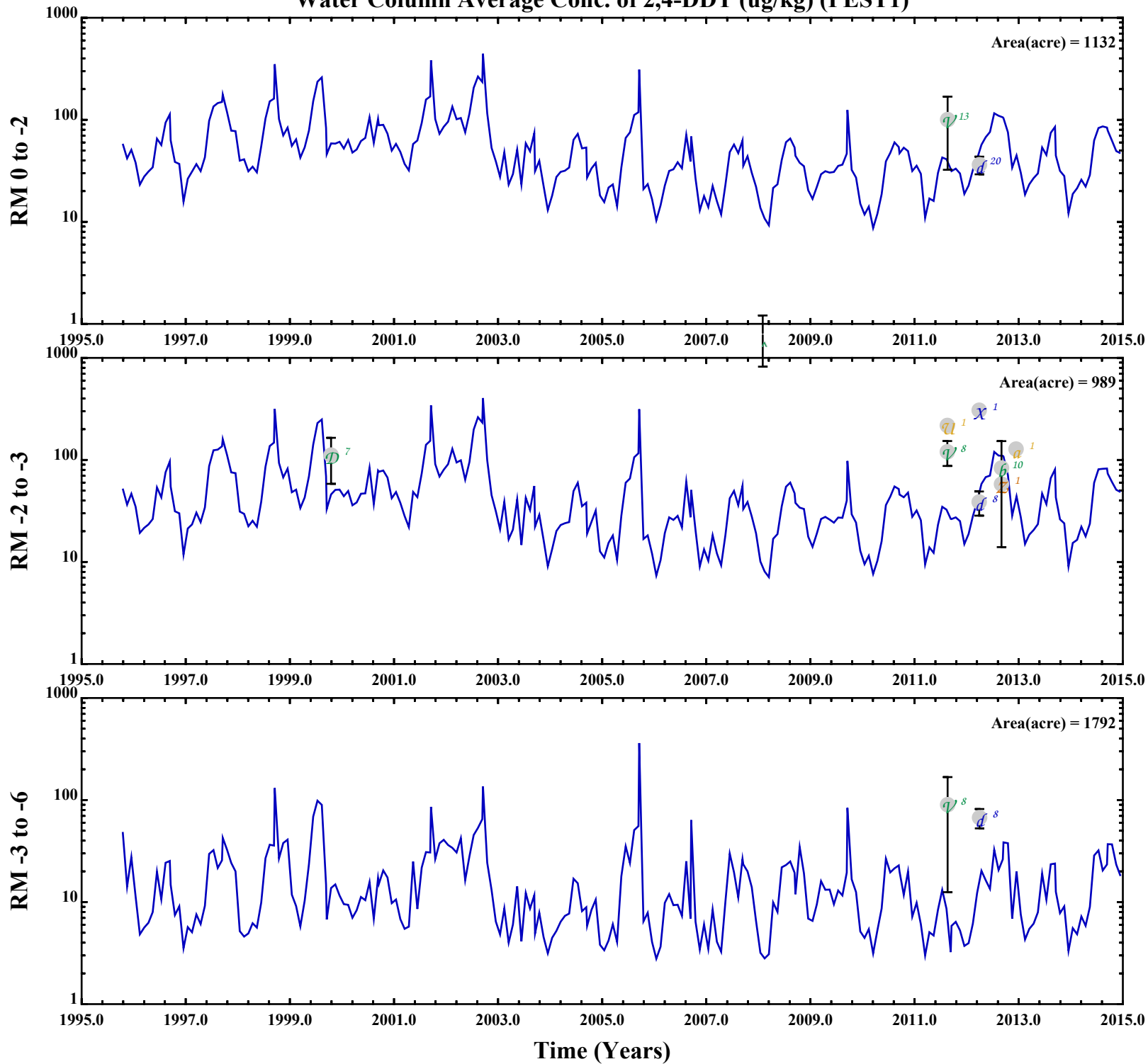


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

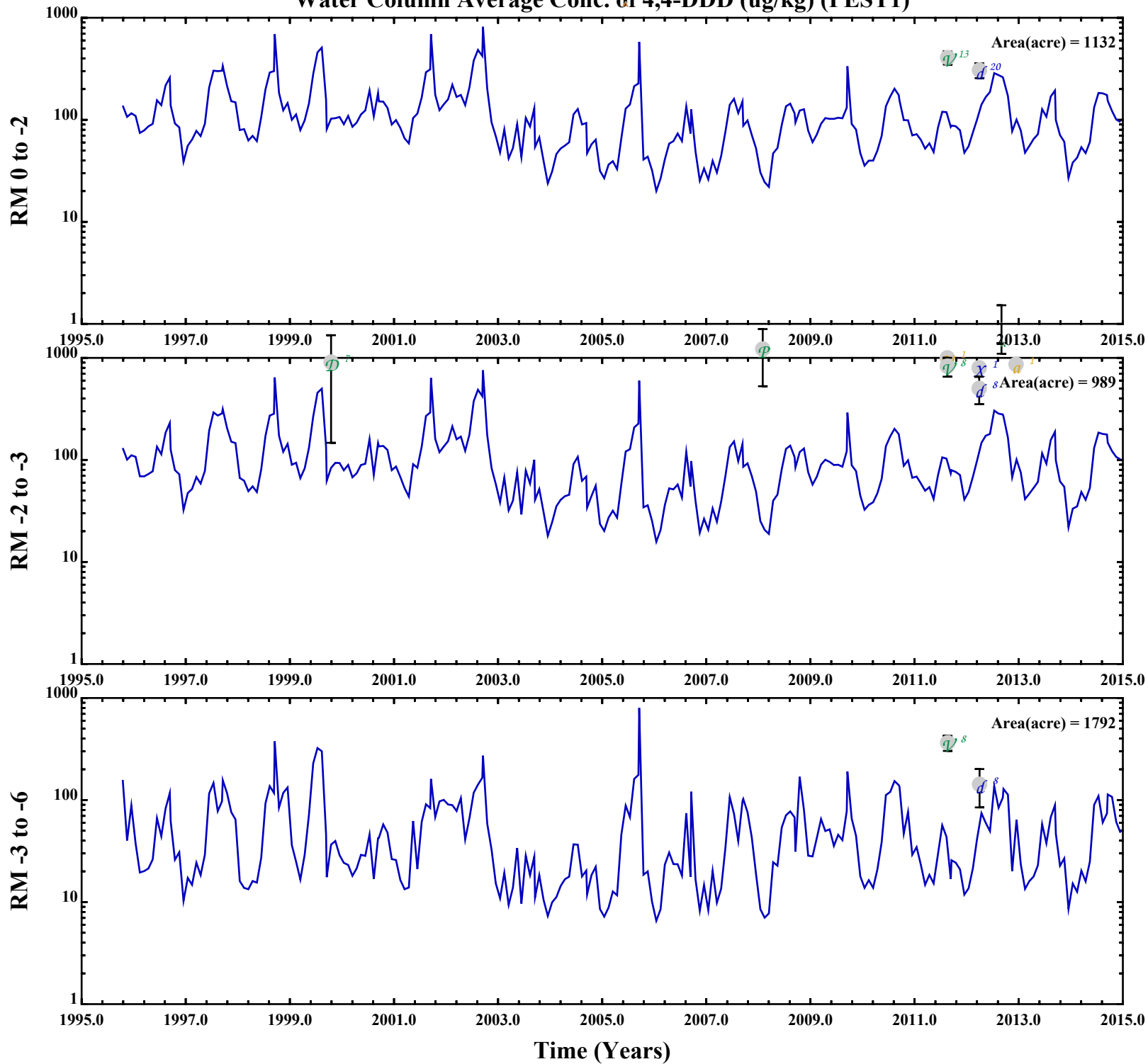
# Water Column Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
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- H* 1999-2006 Honeywell Intl Sampling
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- V* 2011 CPG CWCM Sampling Data
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

**— No Action Gradient IC, Reach Scale Up**

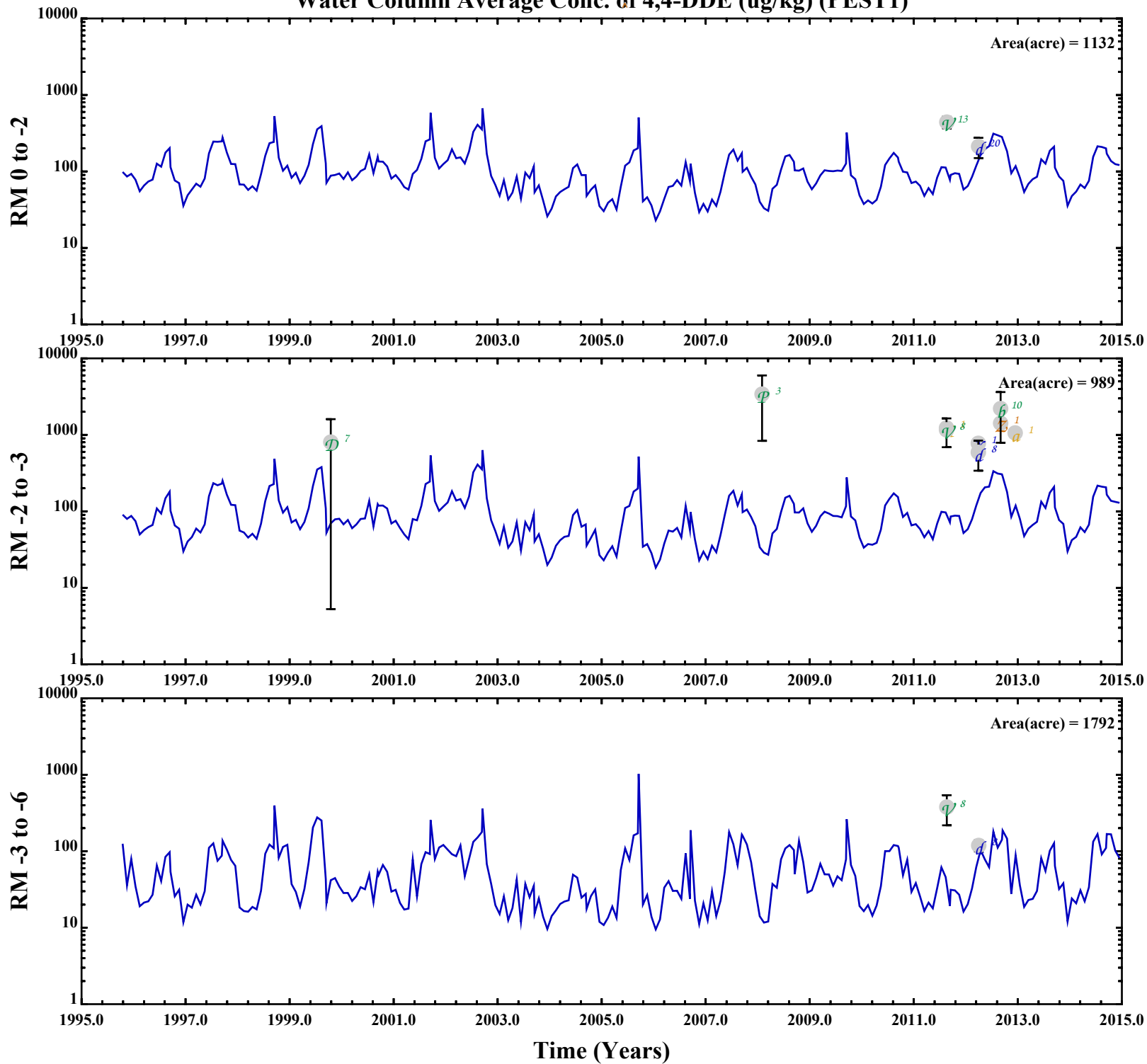
# Water Column Average Conc. of 4,4-DDD (ug/kg) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

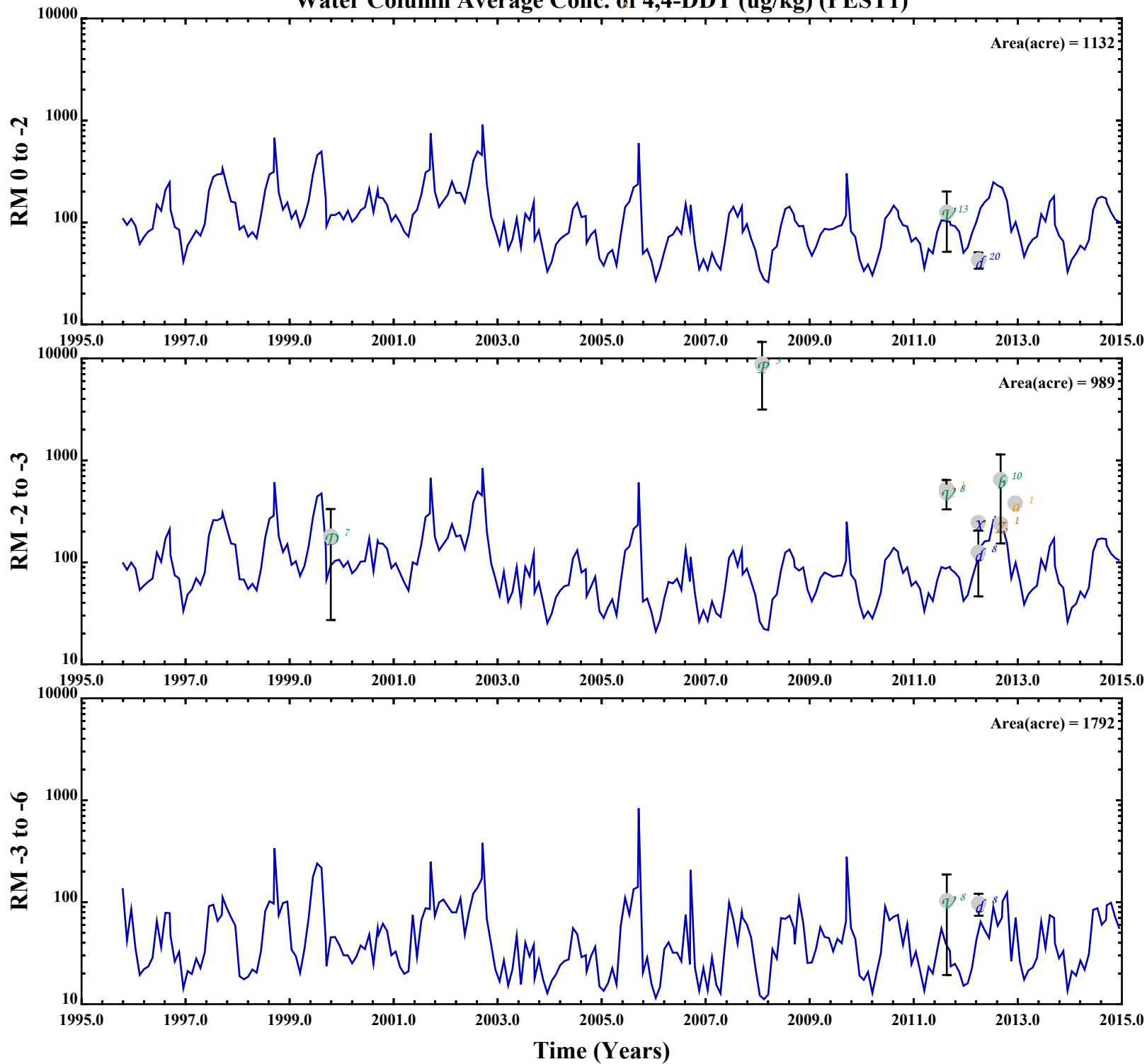
# Water Column Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
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- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

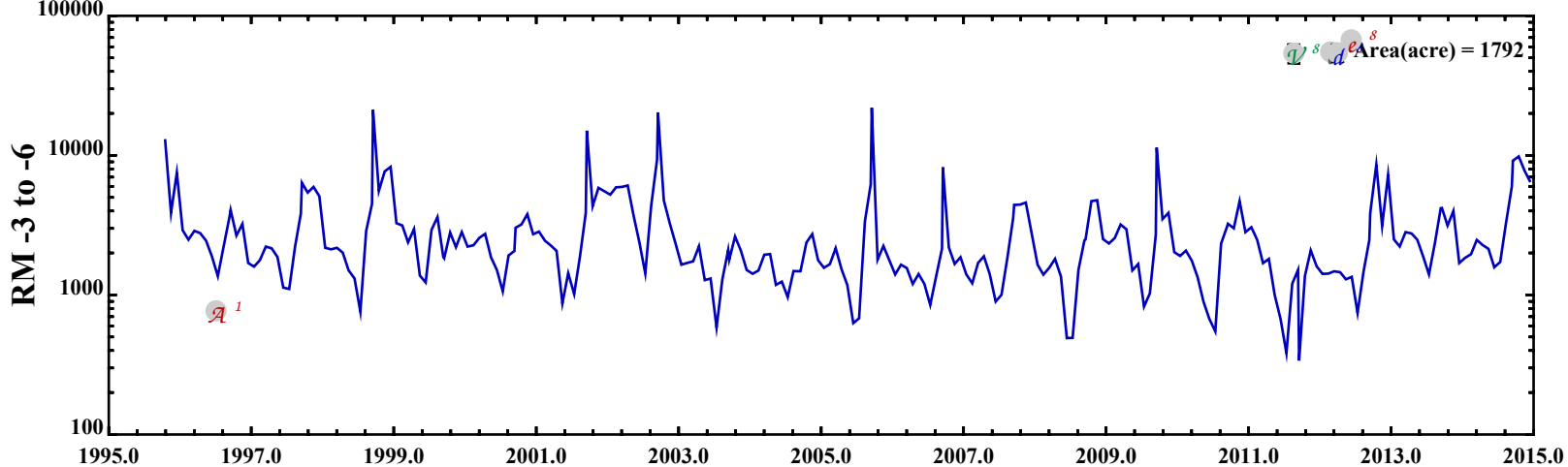
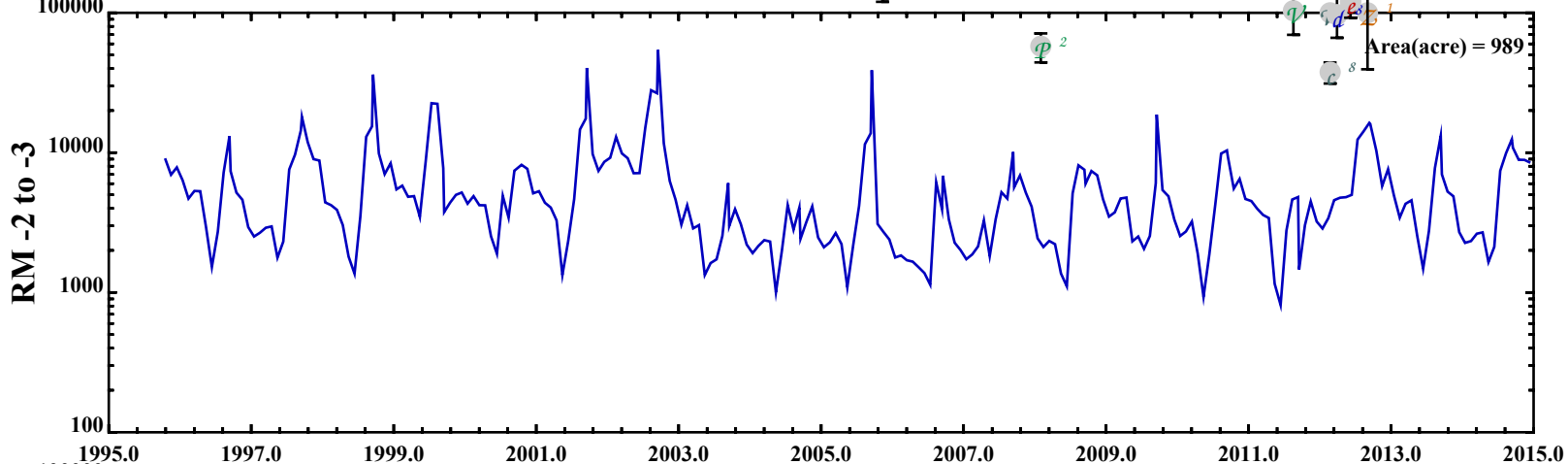
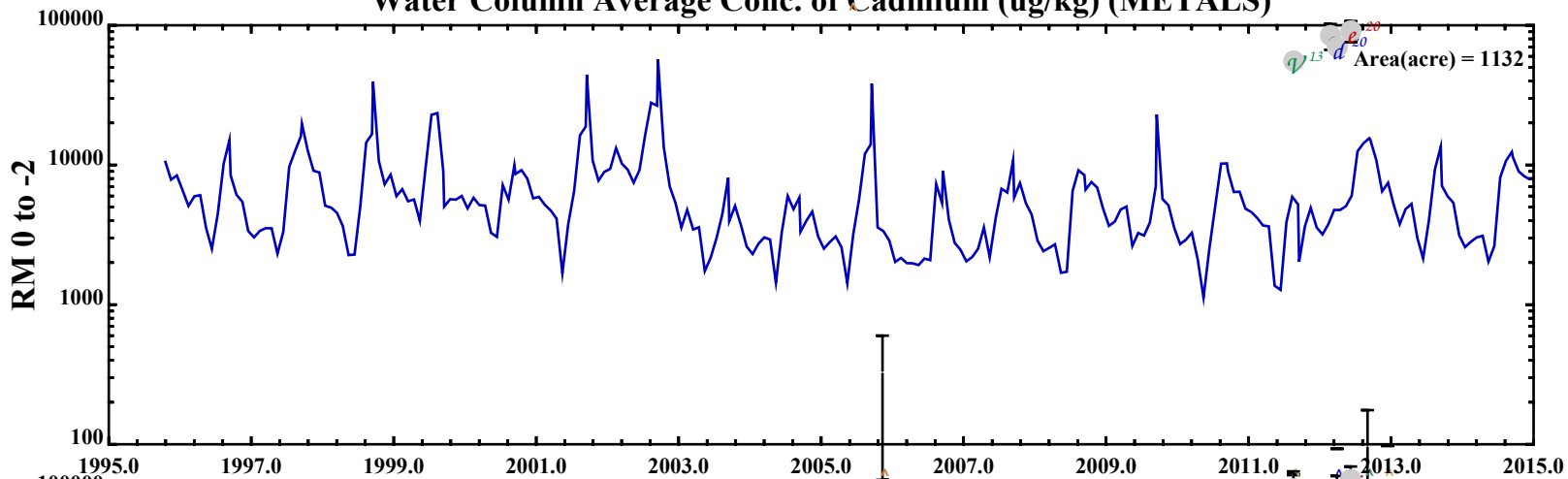
# Water Column Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
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- F 1999 Newark Bay Reach ABCDBaselineSampling
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- K 2005 MPI SPMD Deployment
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- M 2005 USEPA-MPI Large Volume Study
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- Z 2012 CDM Smith CWCM Sampling - Round 5
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- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

# Water Column Average Conc. of Cadmium (ug/kg) (METALS)



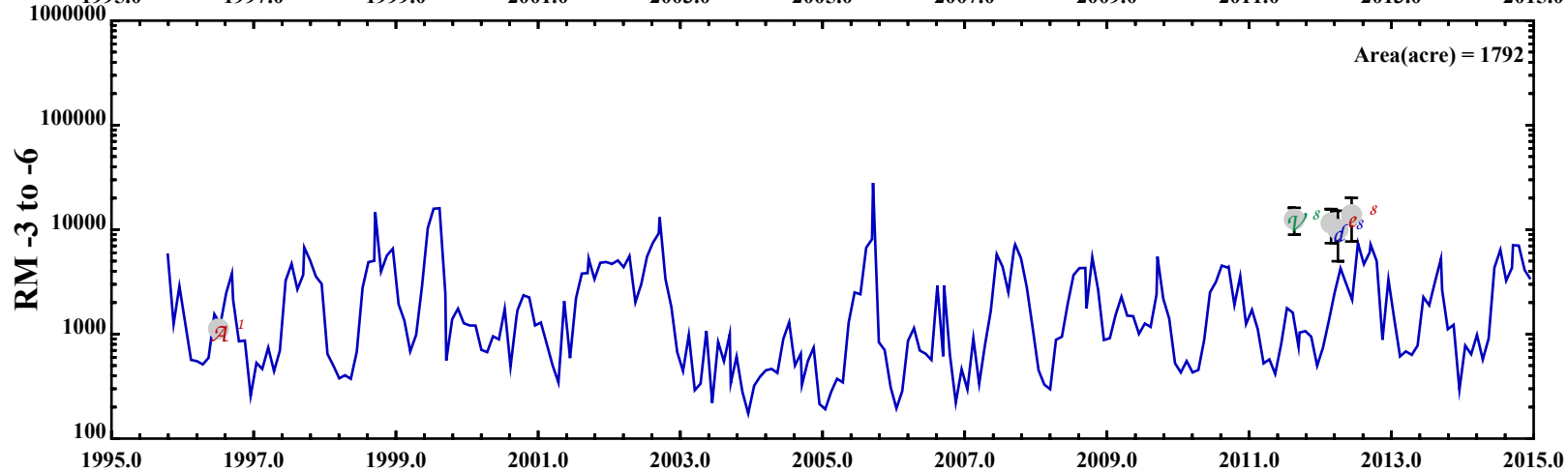
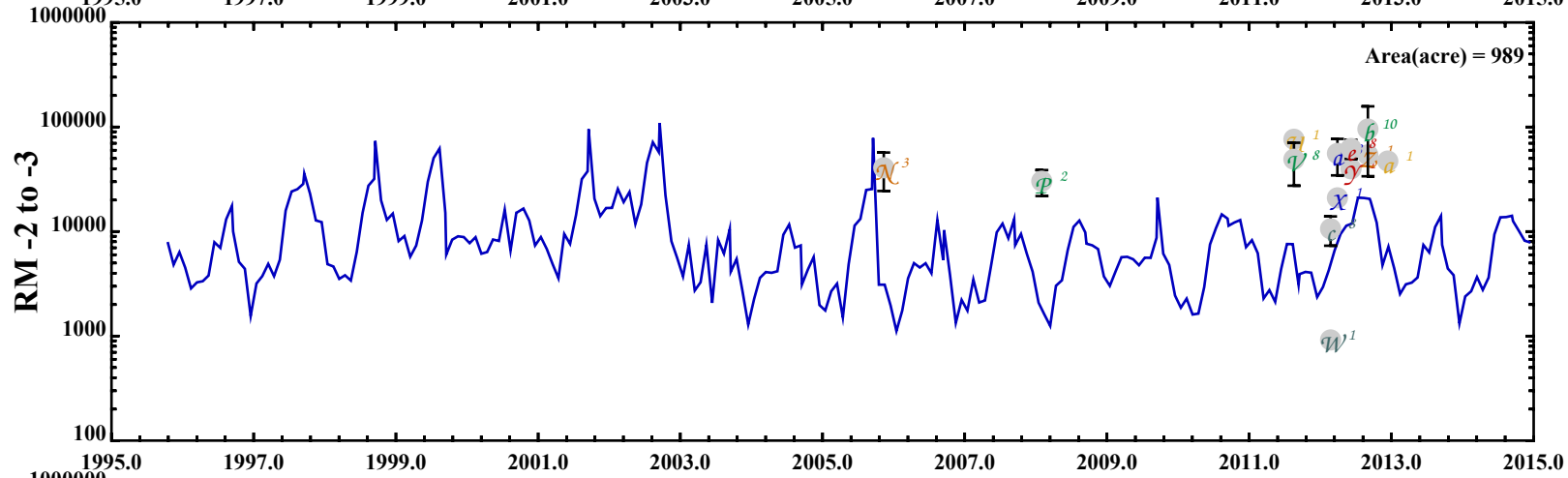
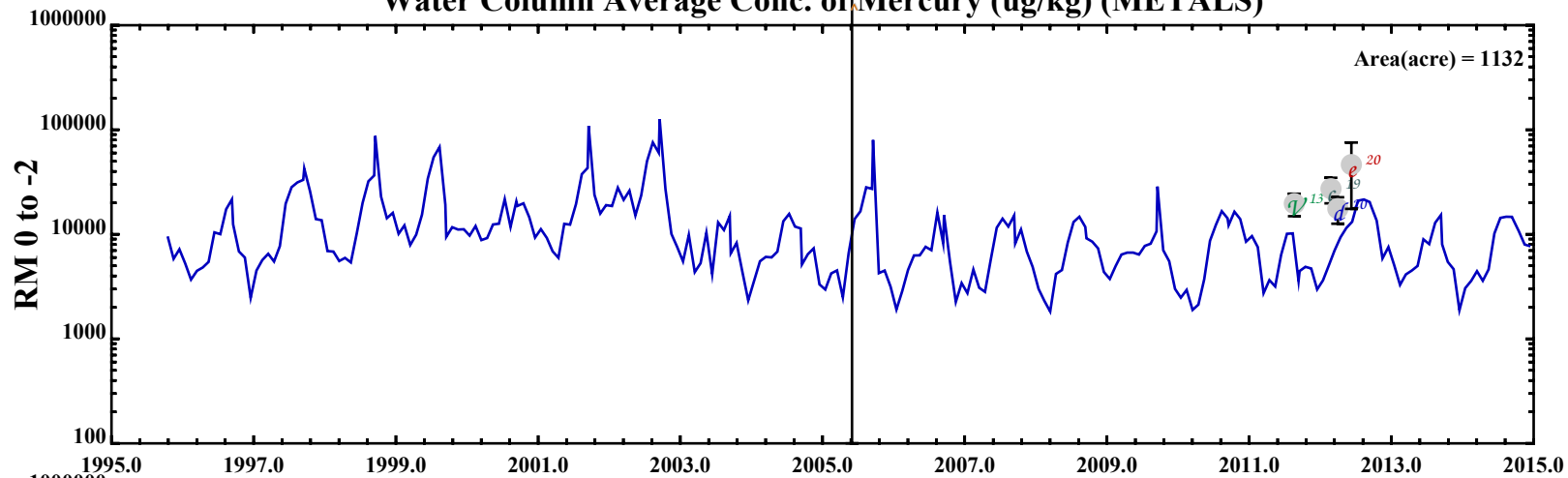
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- K 2005 MPI SPMD Deployment
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up



# Water Column Average Conc. of Mercury (ug/kg) (METALS)

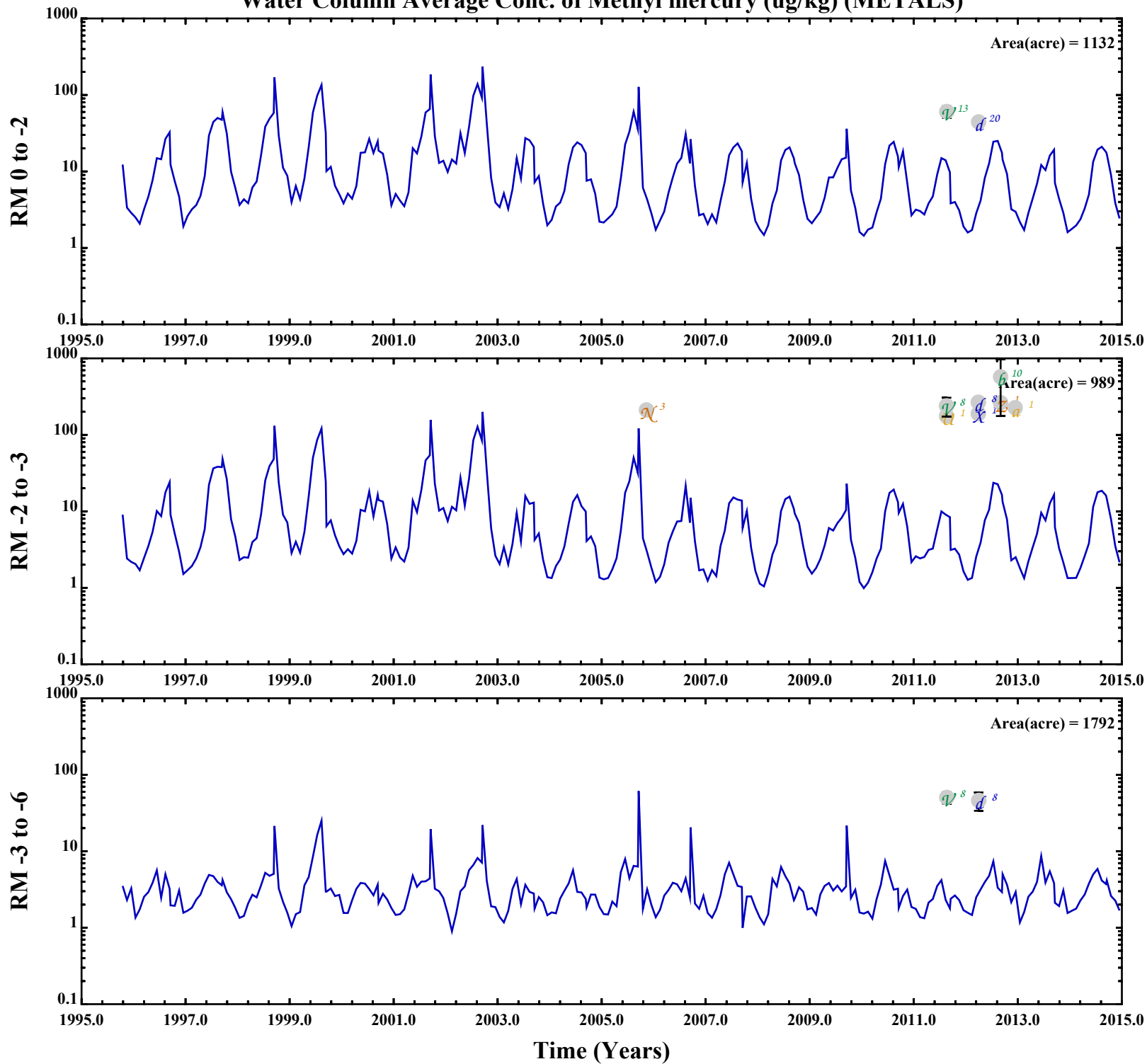


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 Newark Bay Reach ABCD Baseline Sampling
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
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- W 2012 CDM Smith CWCM Sampling - Round 2
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

— No Action Gradient IC, Reach Scale Up

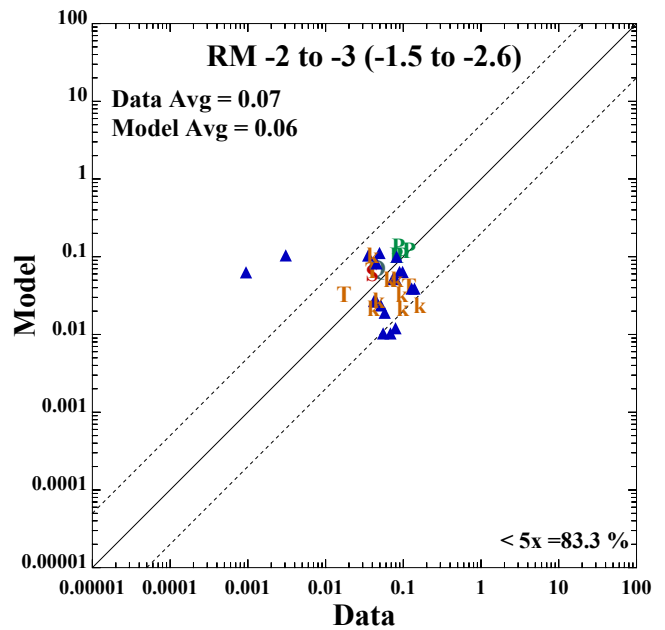
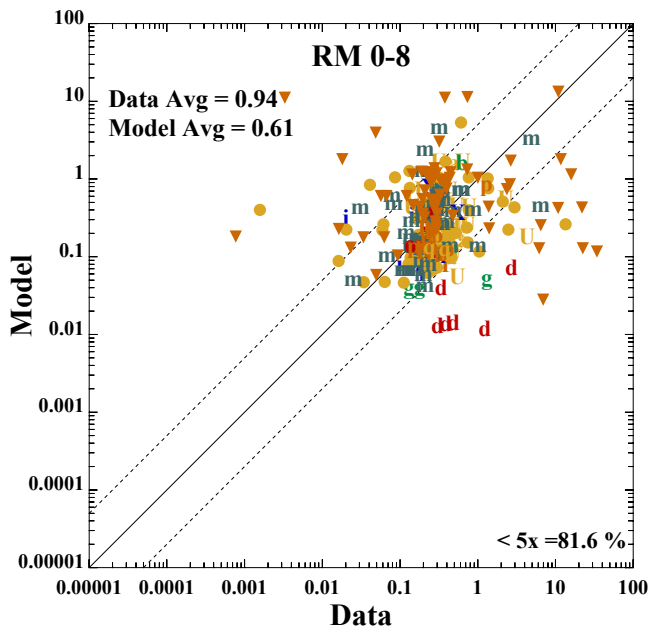
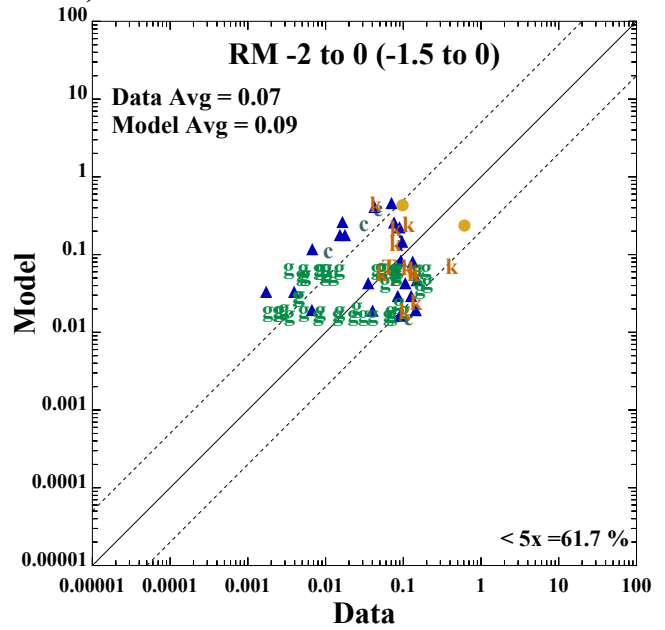
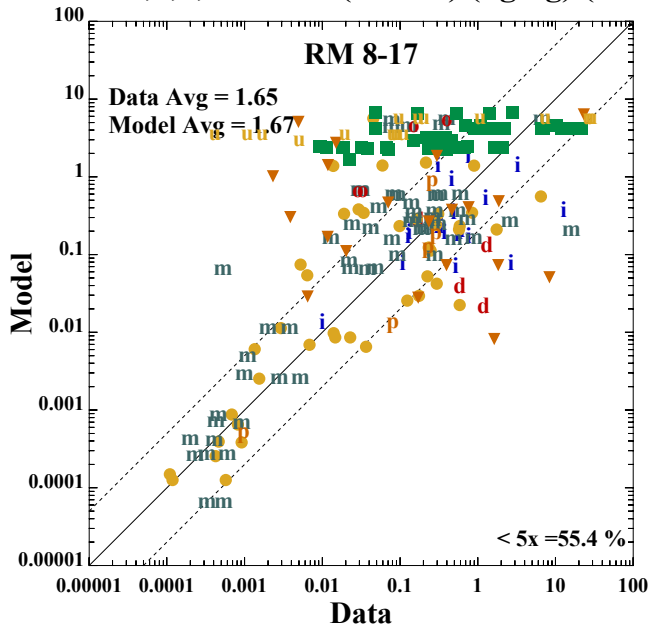
Time (Years)

# Water Column Average Conc. of Methyl mercury (ug/kg) (METALS)

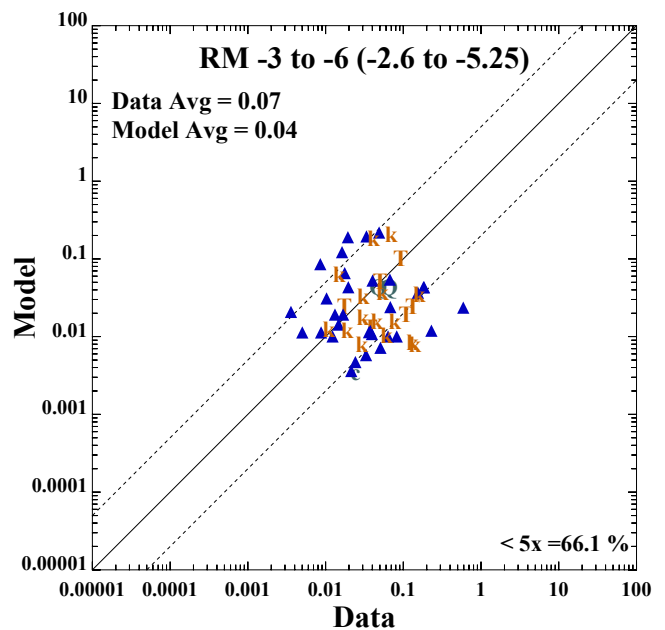


**Attachment D-1**  
**Surface Sediment X-Y Scatter Plots**

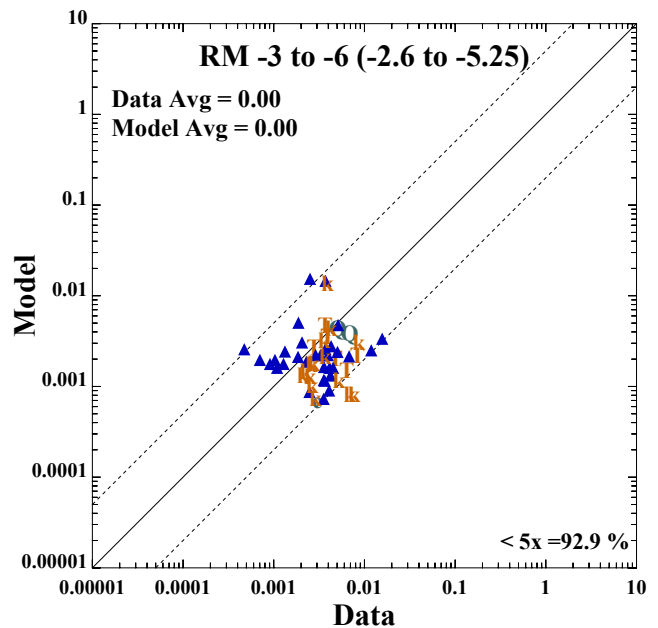
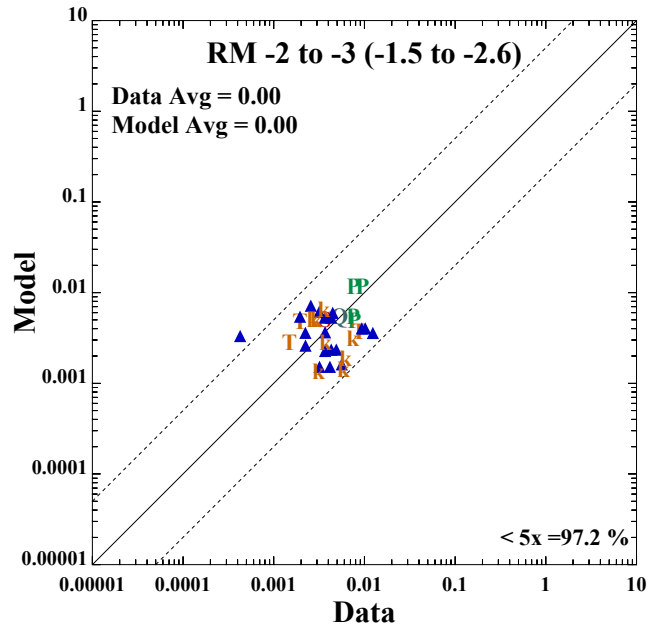
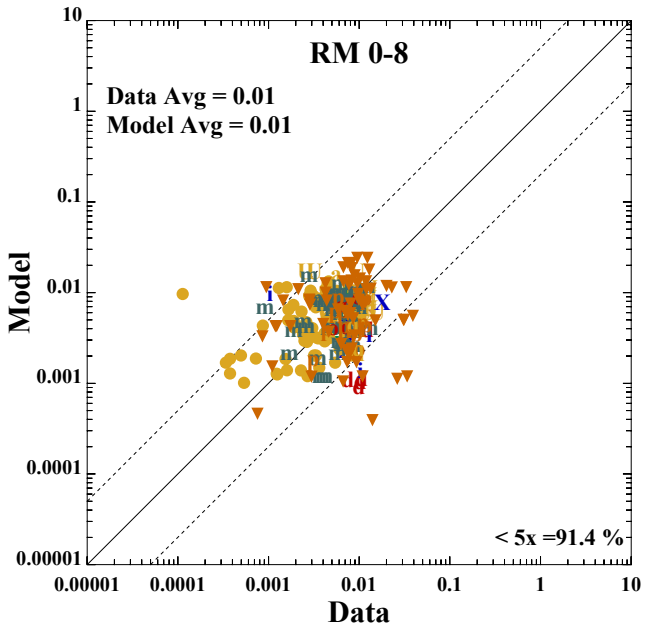
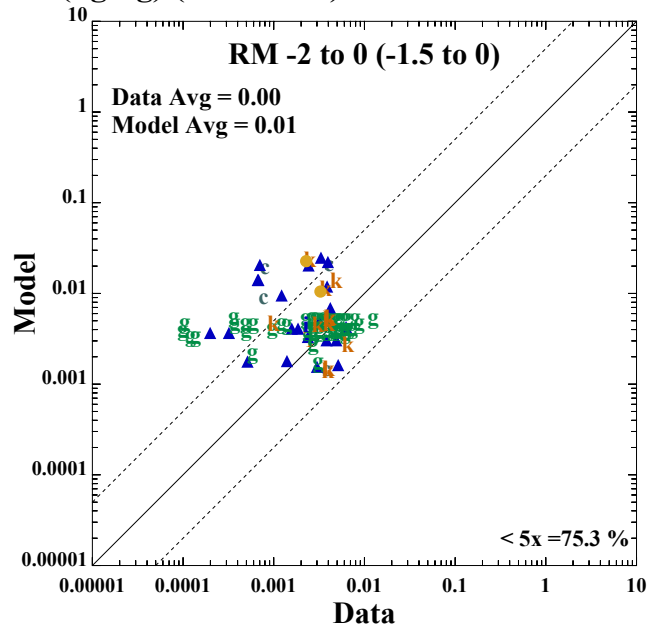
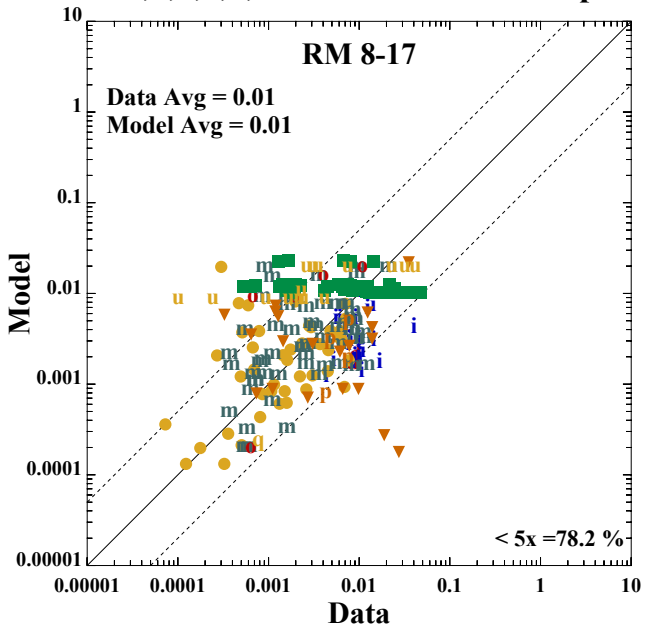
**Top 15cm Average Conc.  
2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

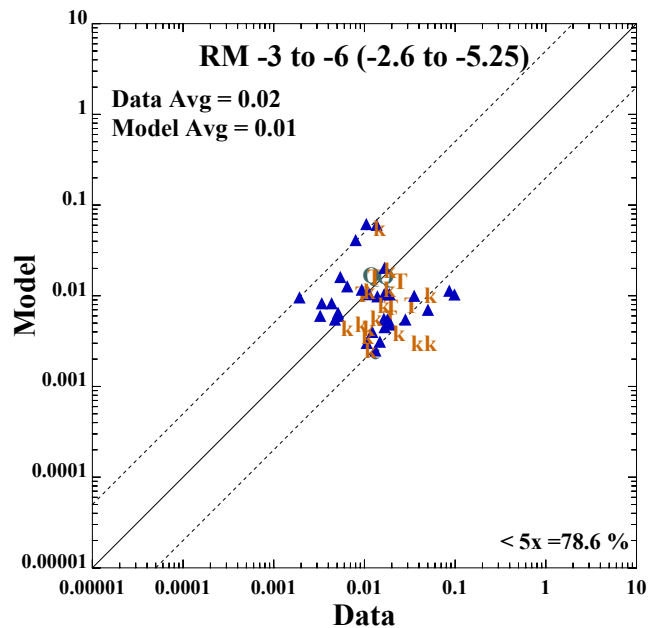
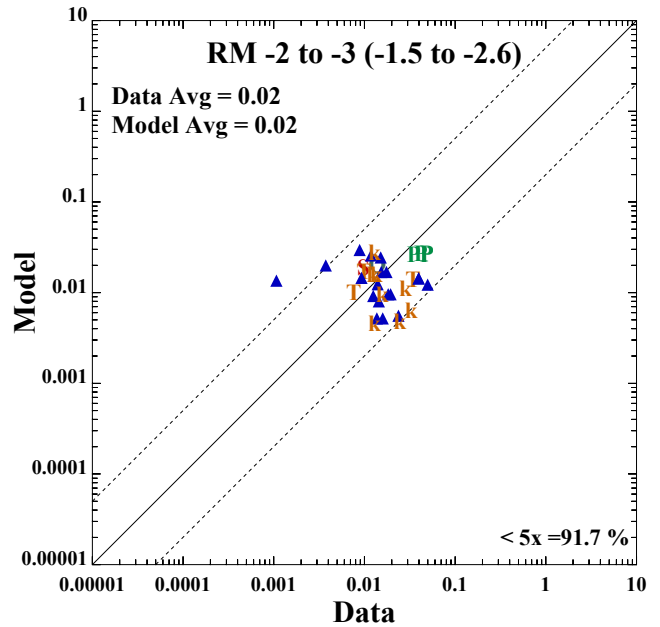
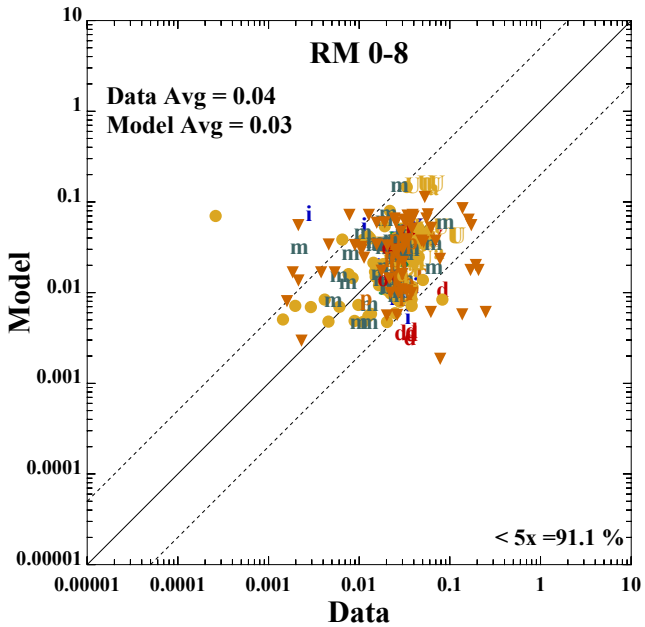
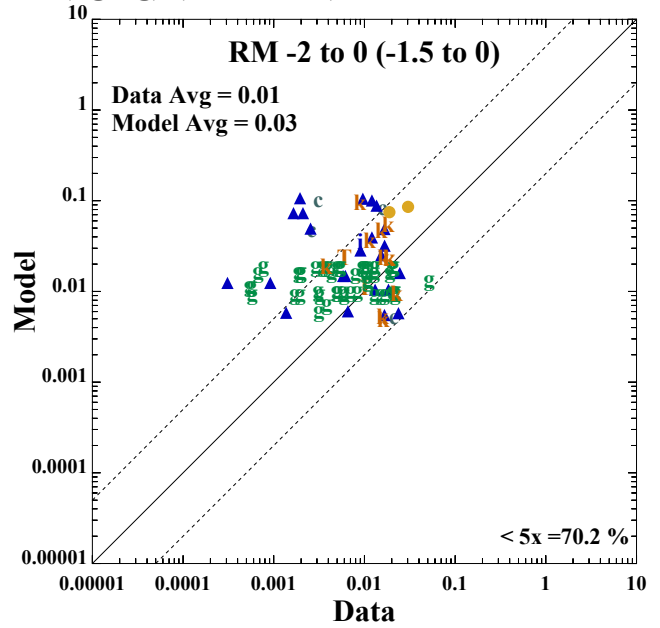
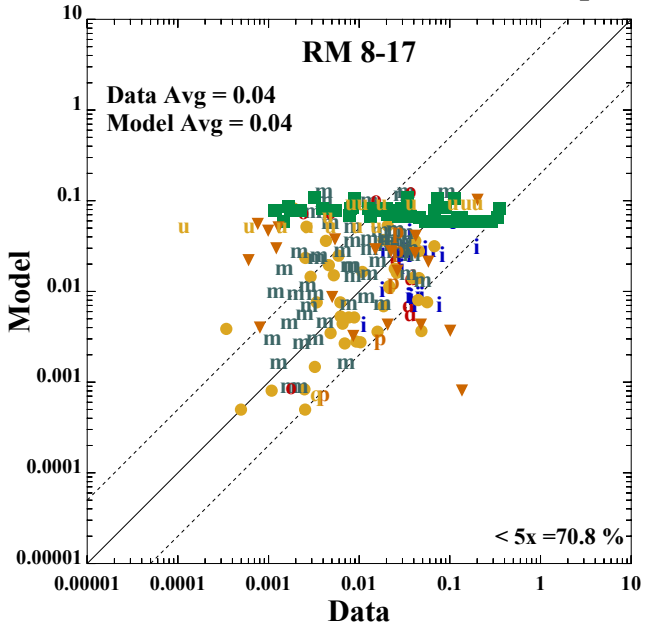


**Top 15cm Average Conc.  
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)**



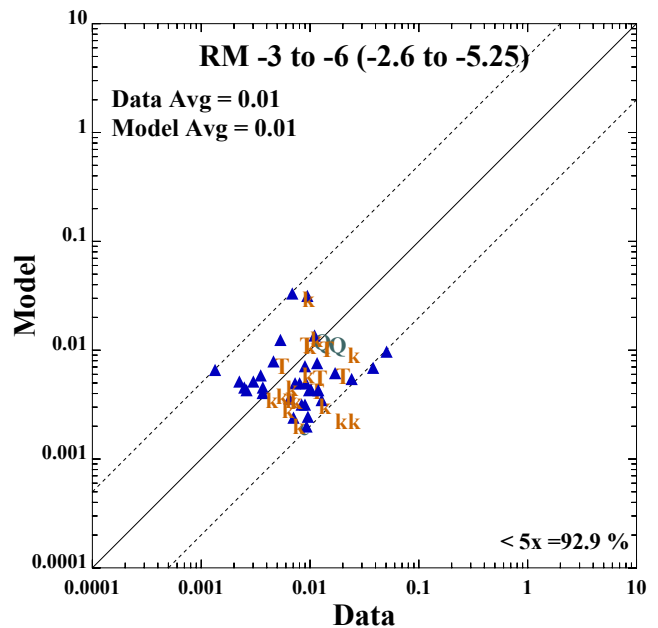
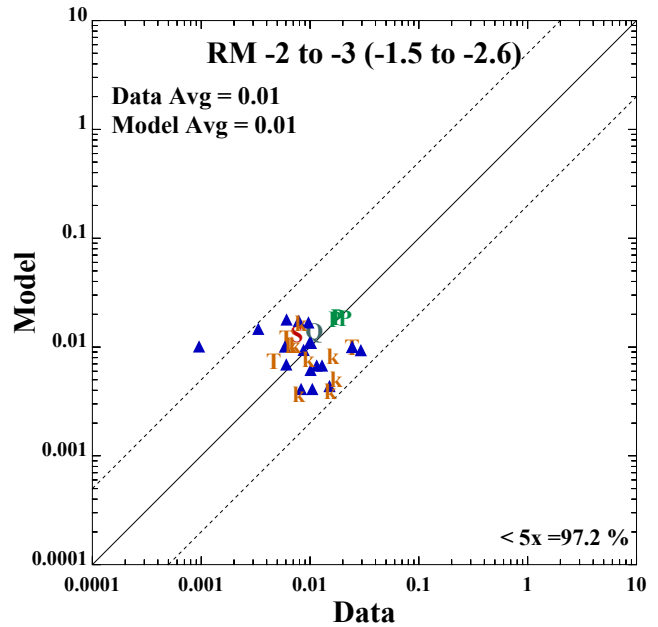
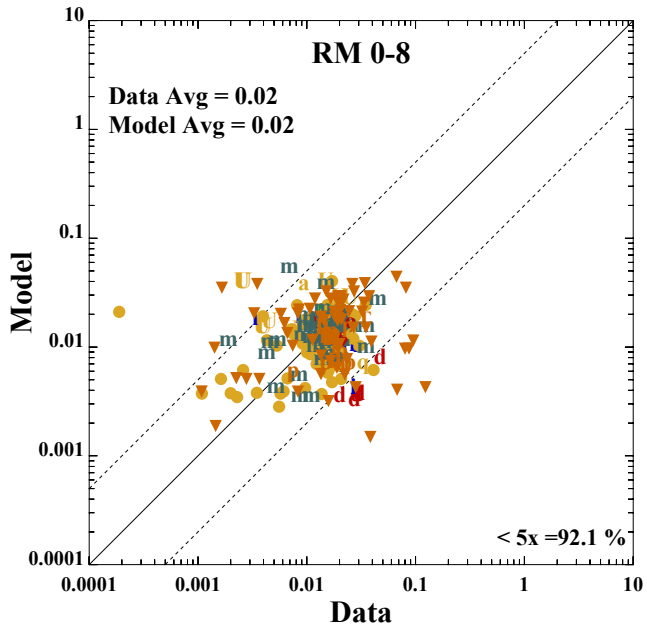
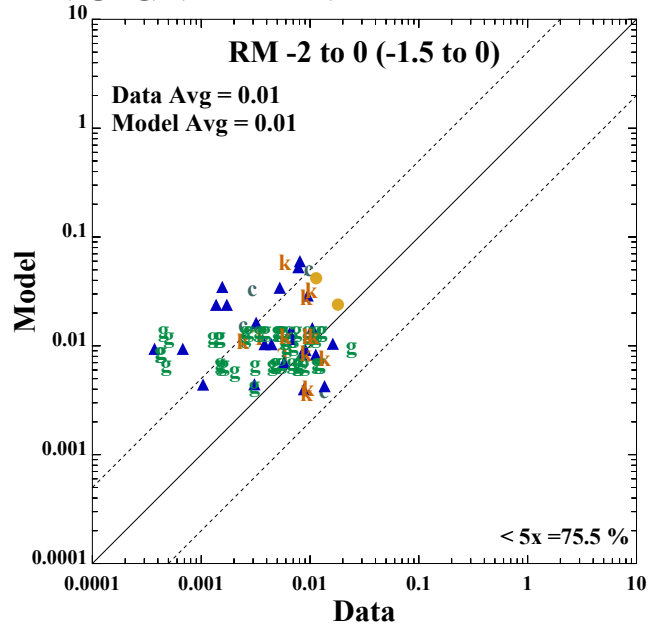
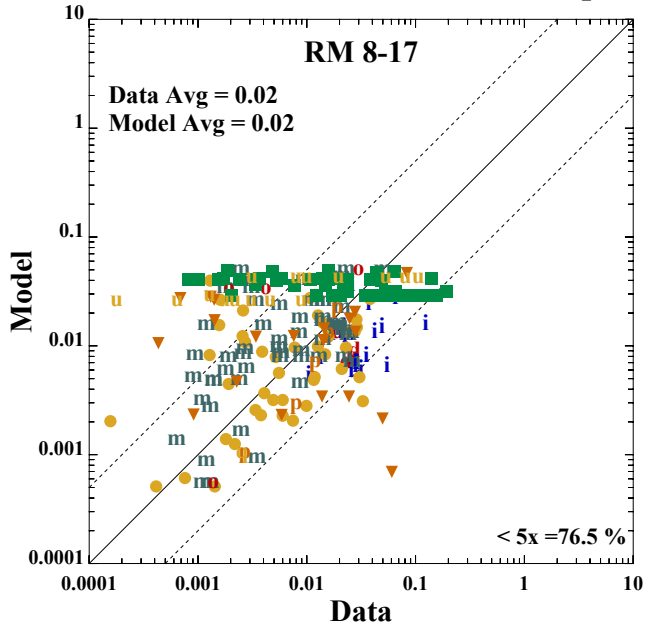
- P 1996 Newark Bay Reach A Sediment Sampling Program
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

**Top 15cm Average Conc.  
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)**



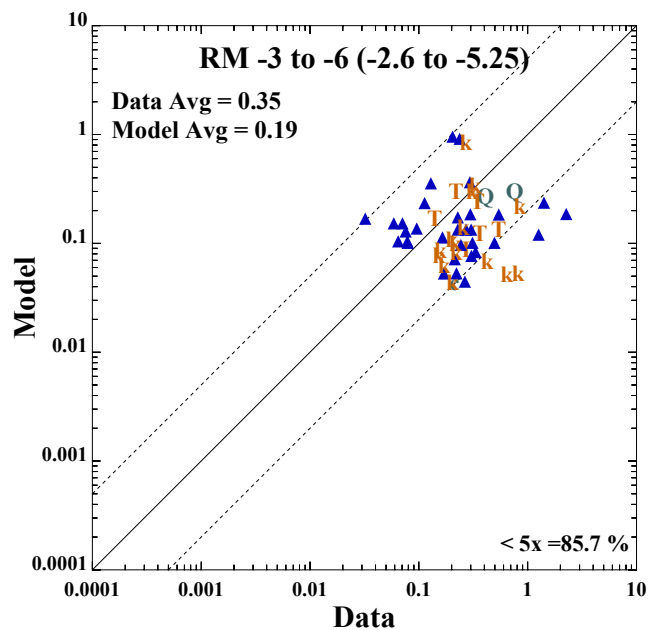
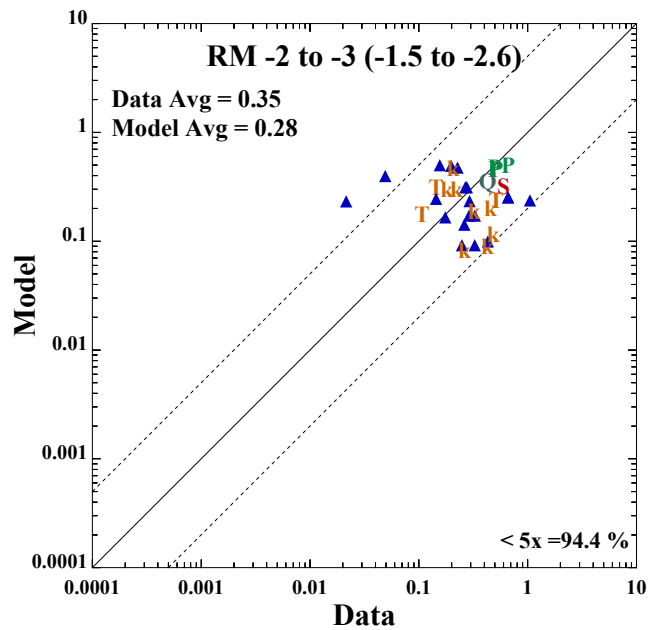
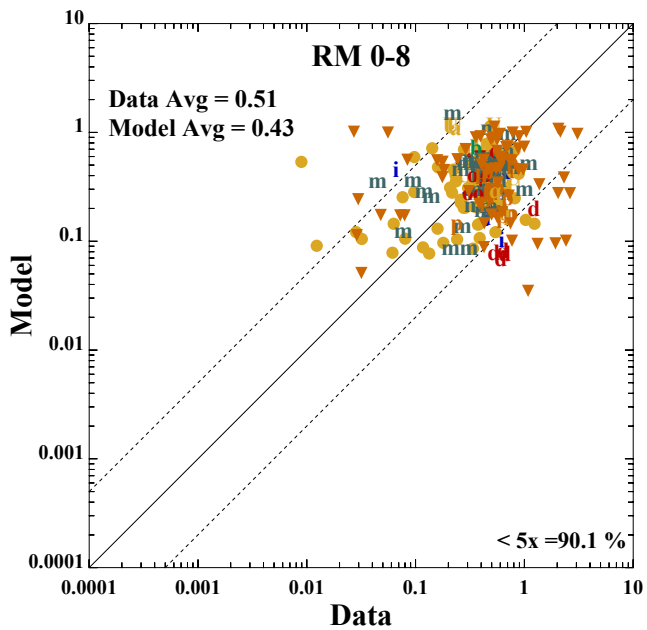
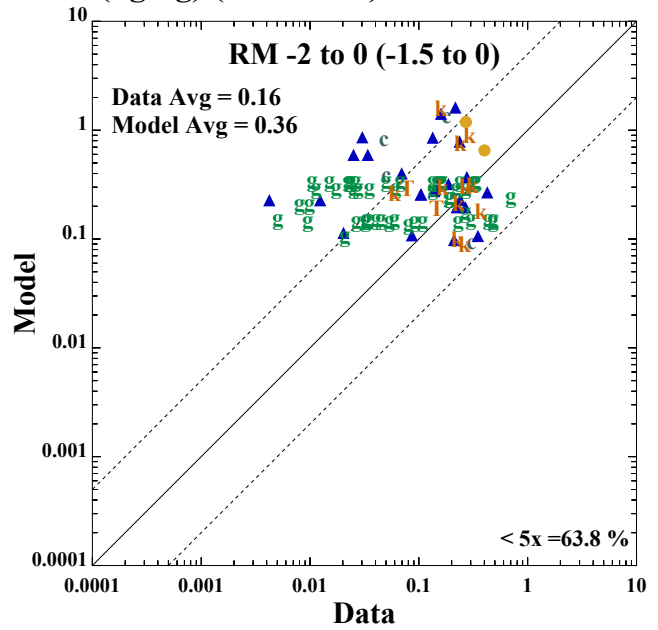
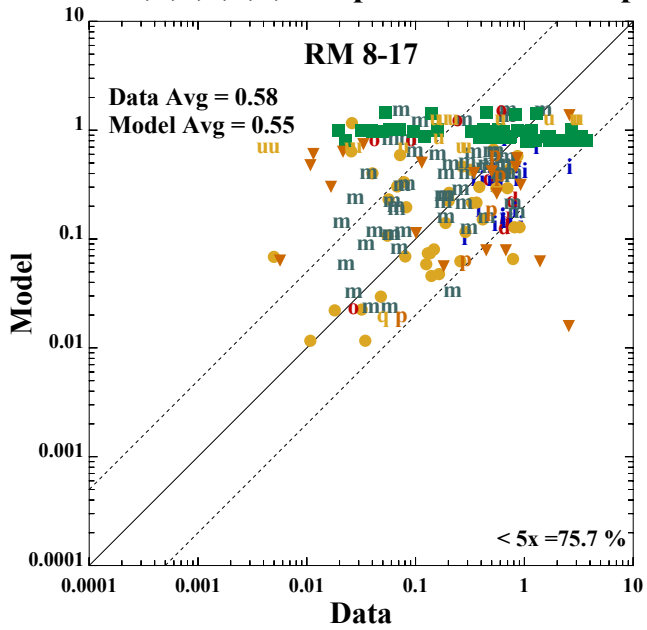
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
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- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

**Top 15cm Average Conc.  
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- U 1999 Late Summer/Early Fall ESP Sampling Program
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- r 2012 CDMSmith Background BenthicSediment
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

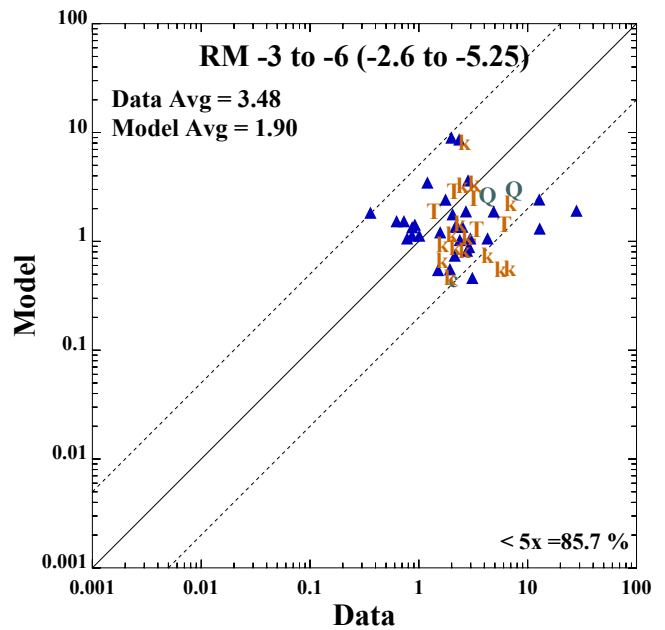
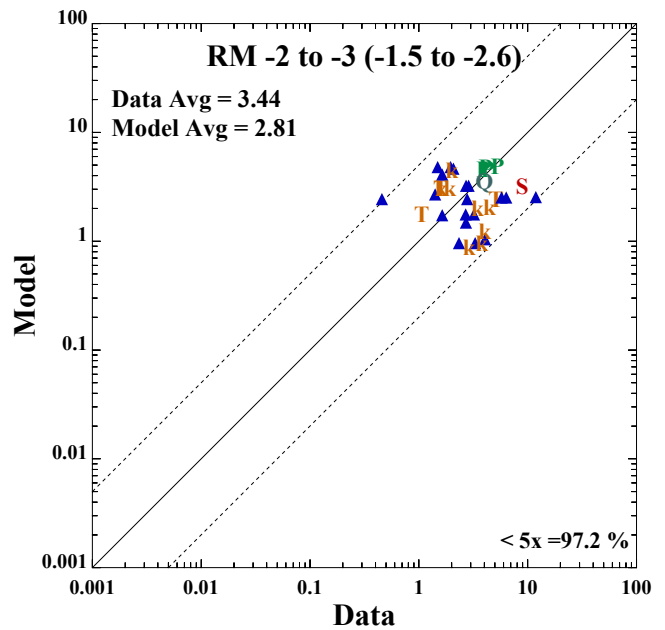
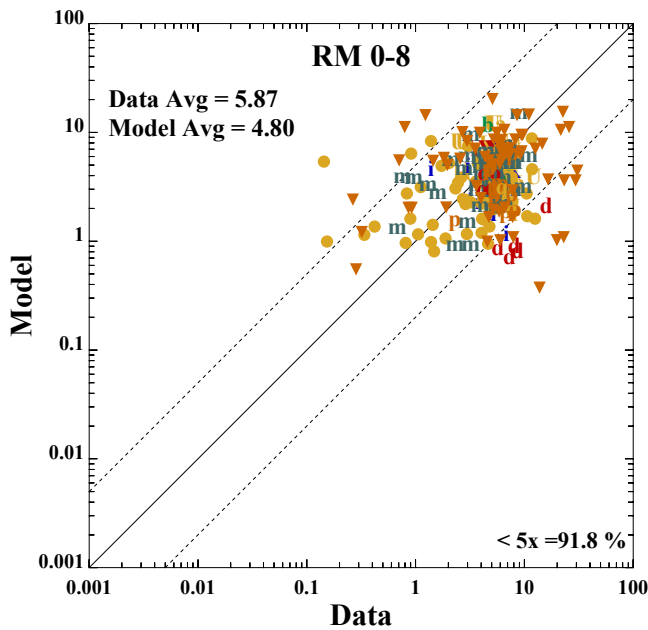
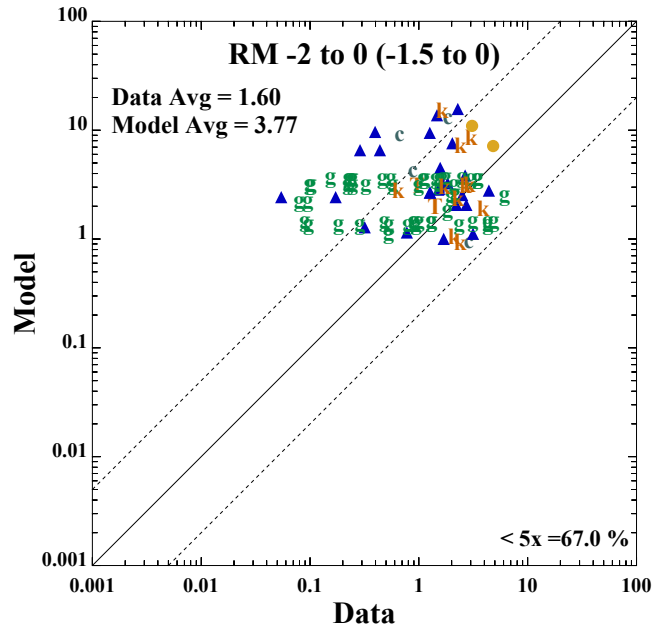
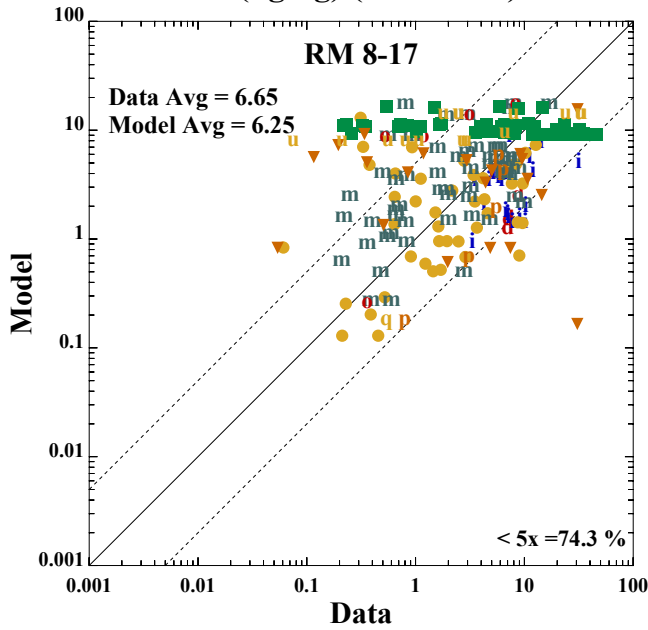
**Top 15cm Average Conc.  
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

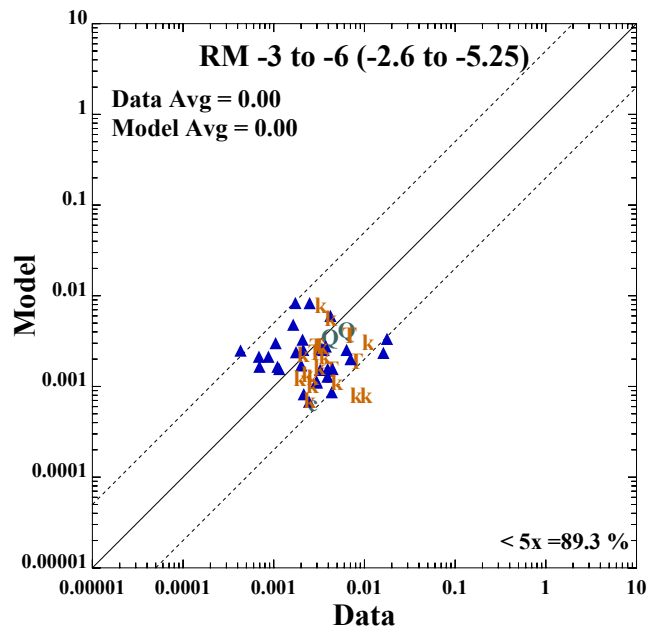
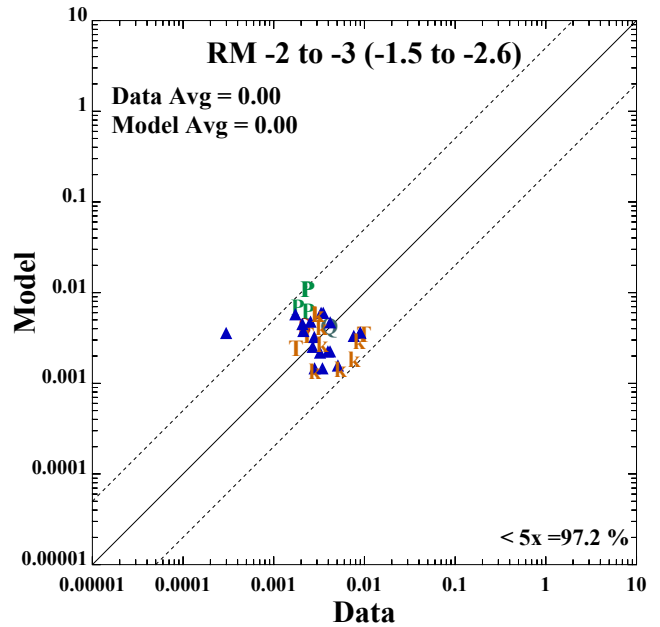
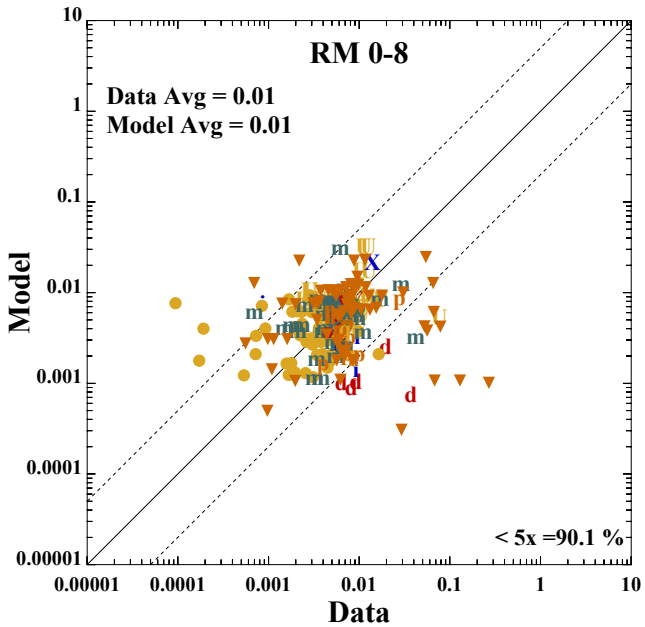
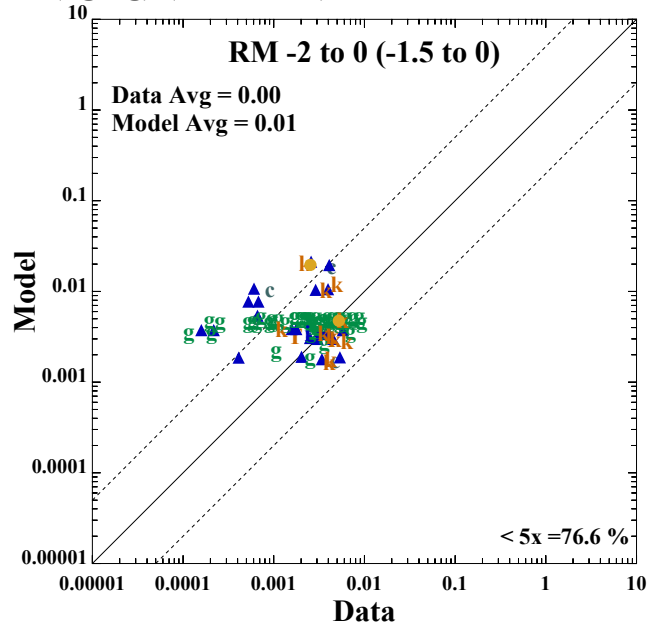
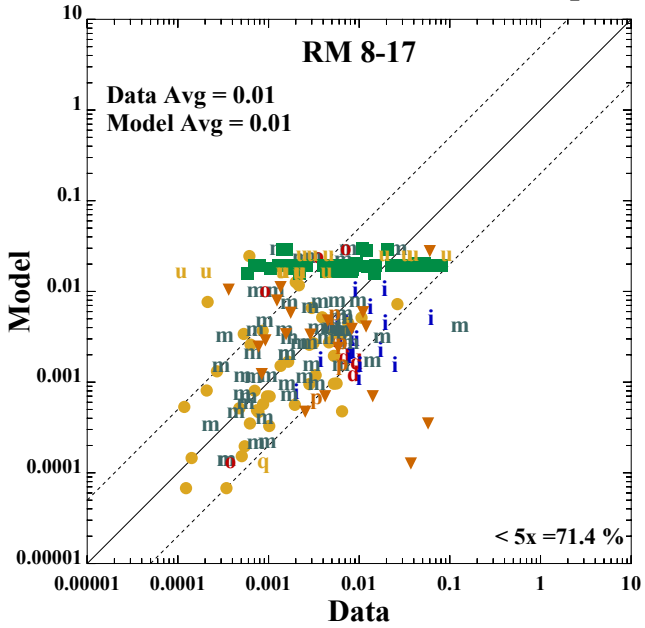


**Top 15cm Average Conc.  
OCDD (ug/kg) (DIOXIN1)**



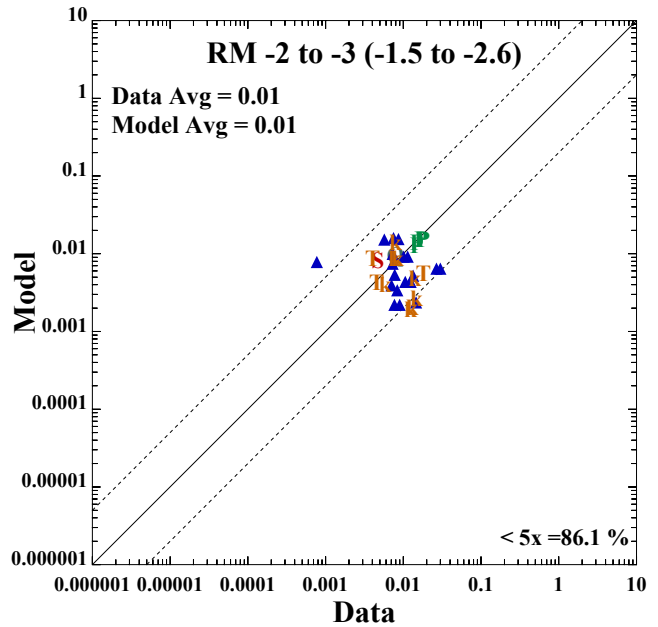
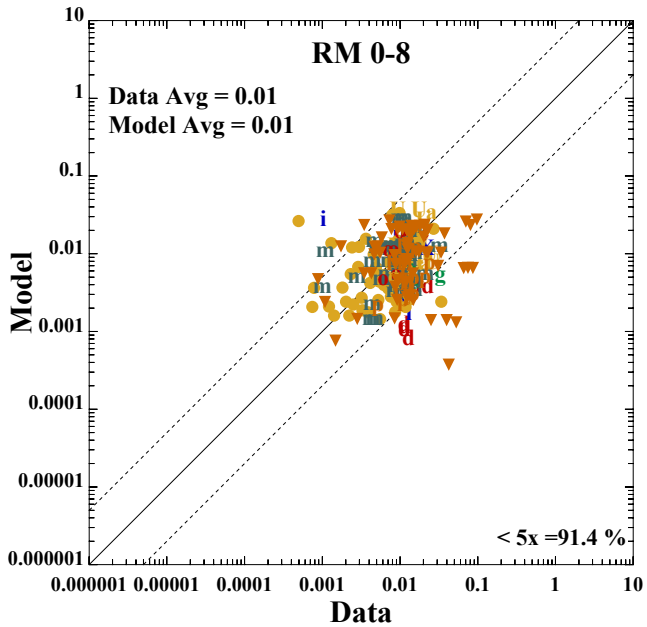
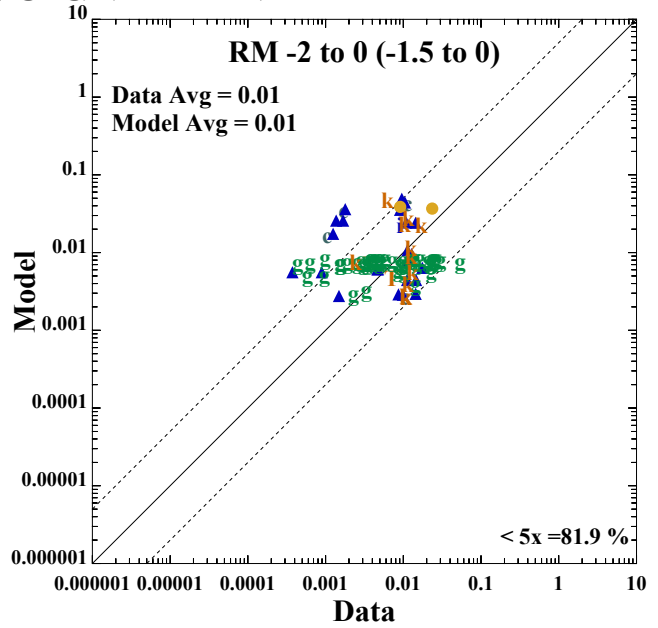
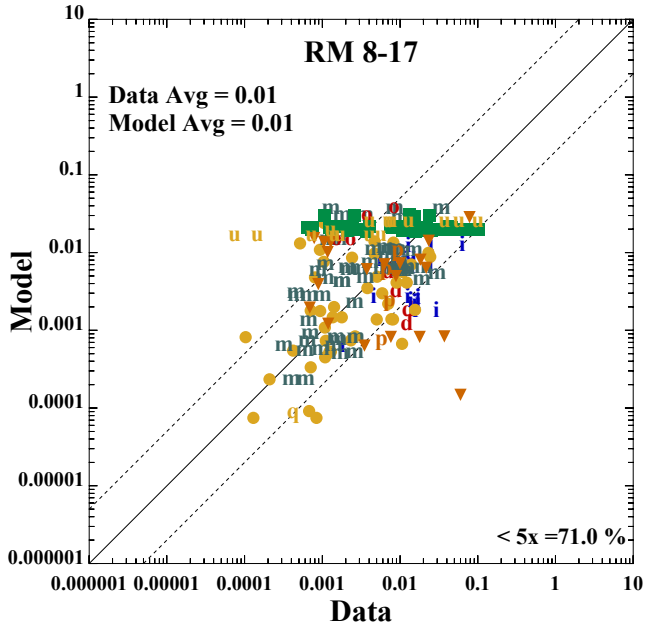
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

**Top 15cm Average Conc.  
1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)**

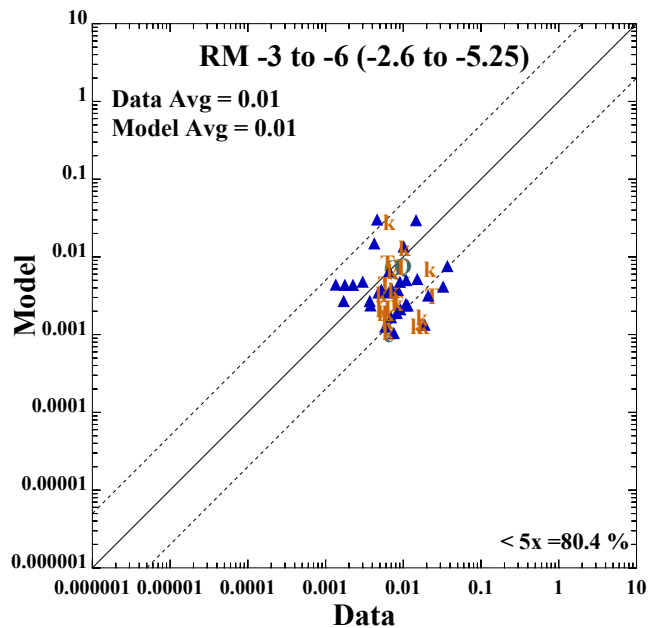


- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
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- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

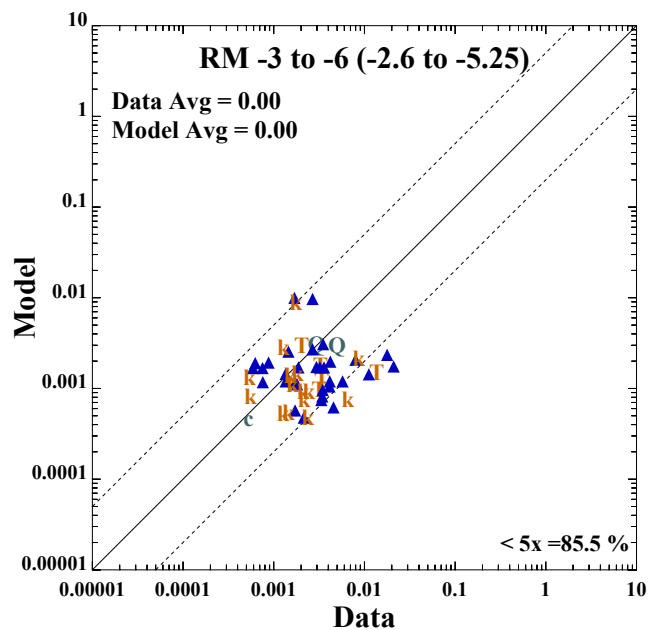
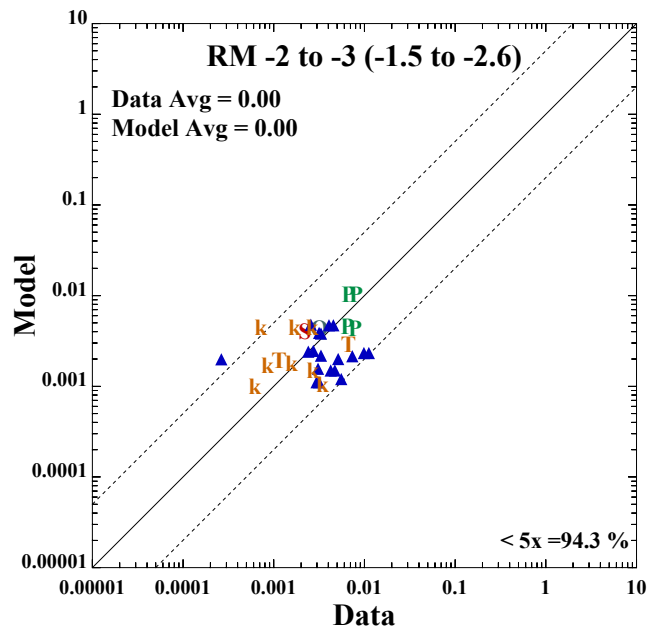
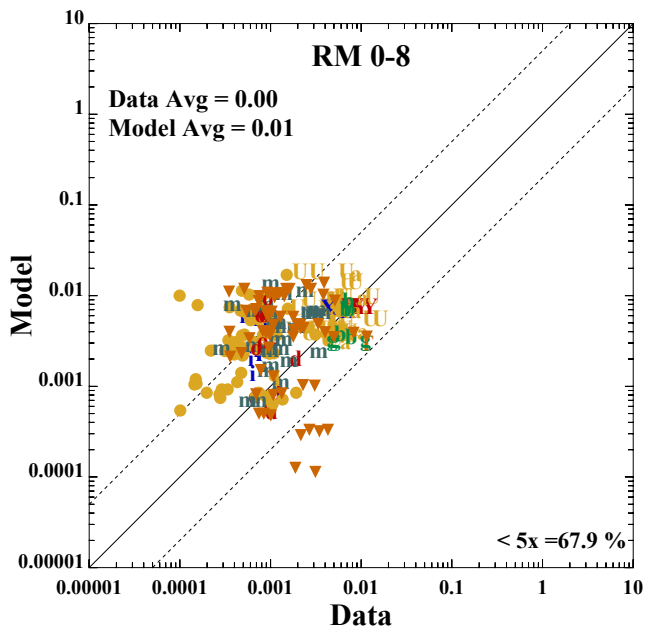
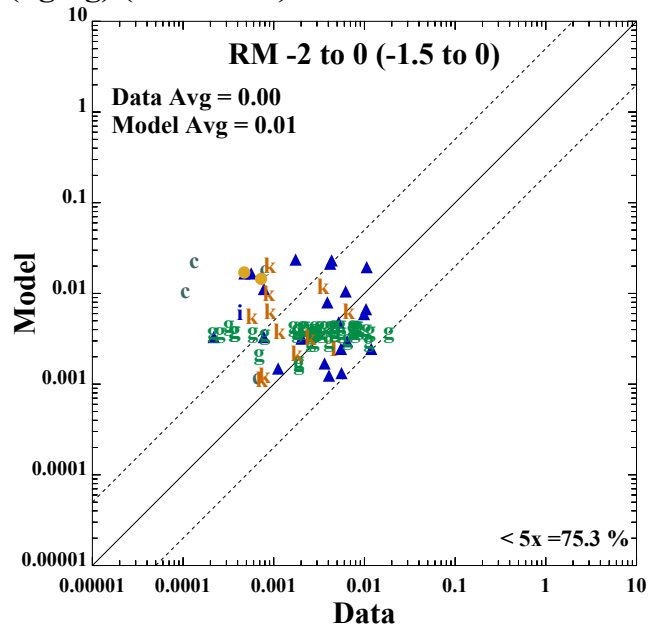
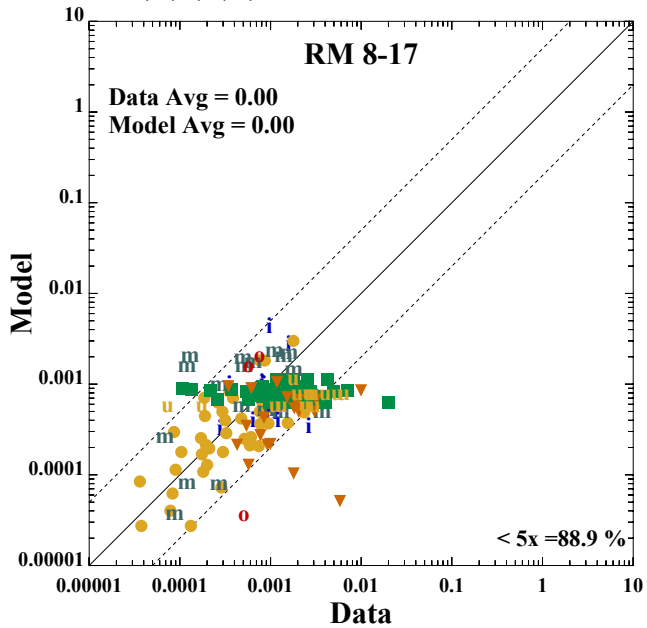
**Top 15cm Average Conc.  
1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

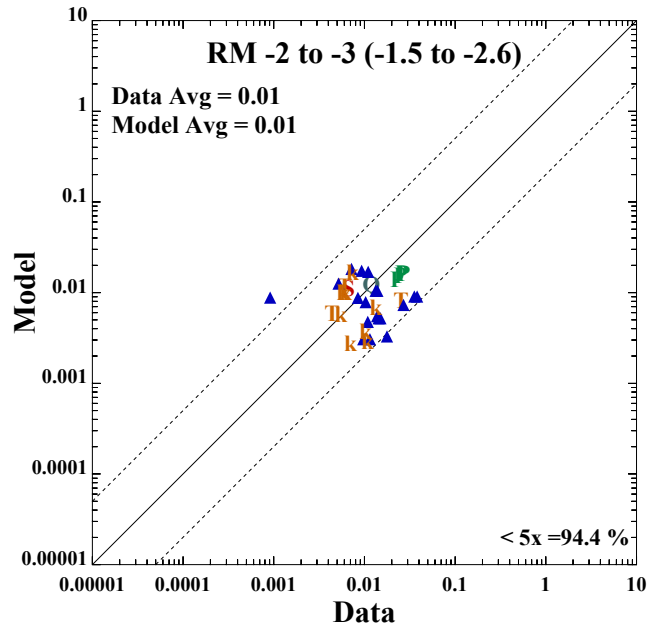
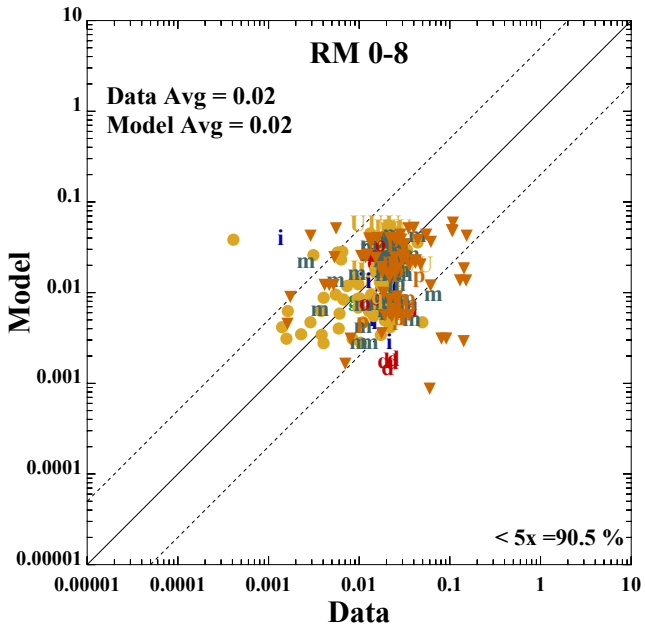
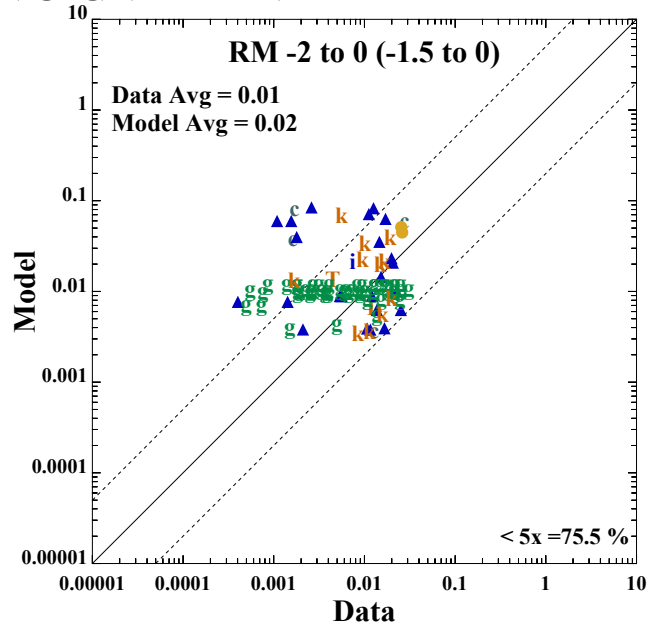
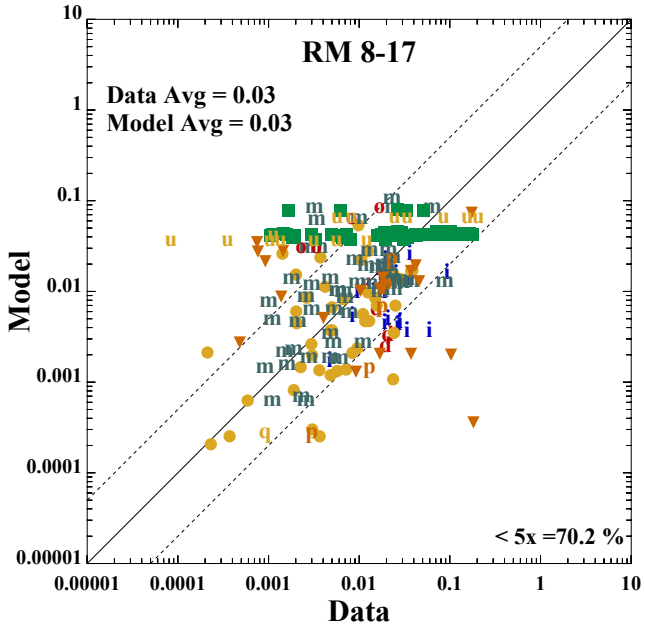


**Top 15cm Average Conc.  
1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)**

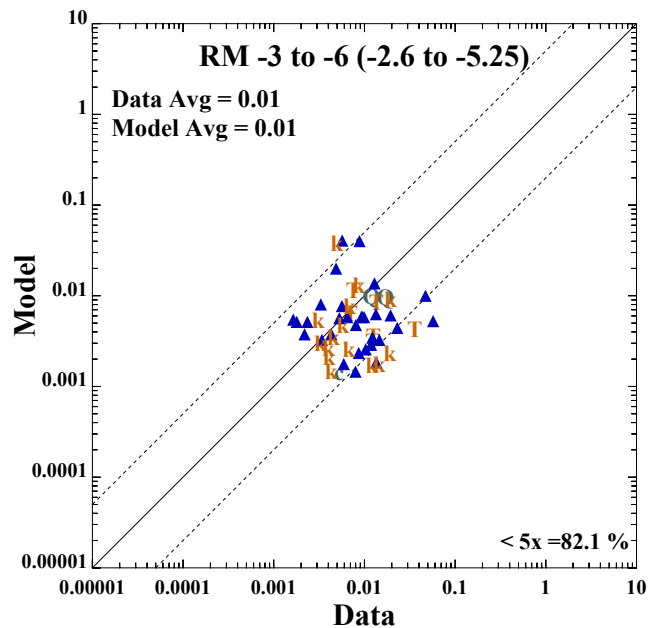


- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

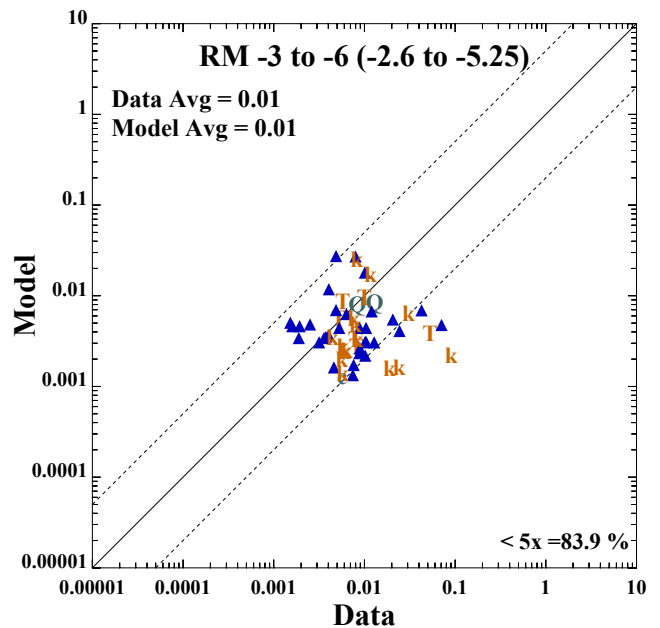
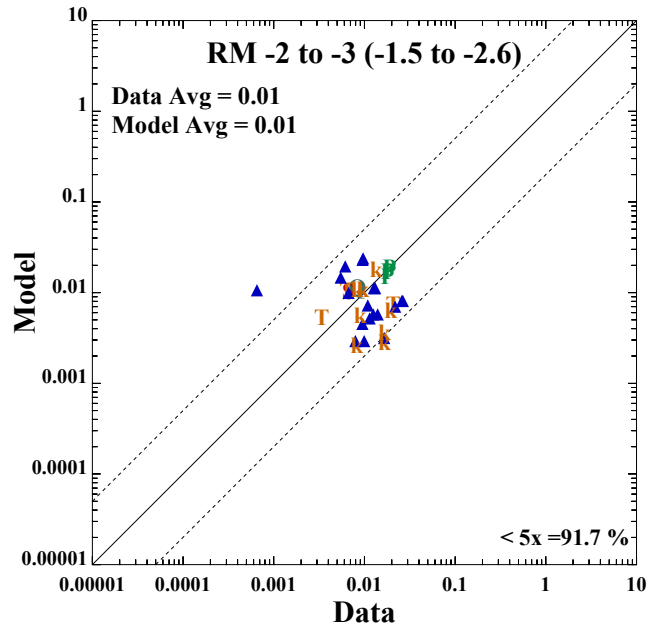
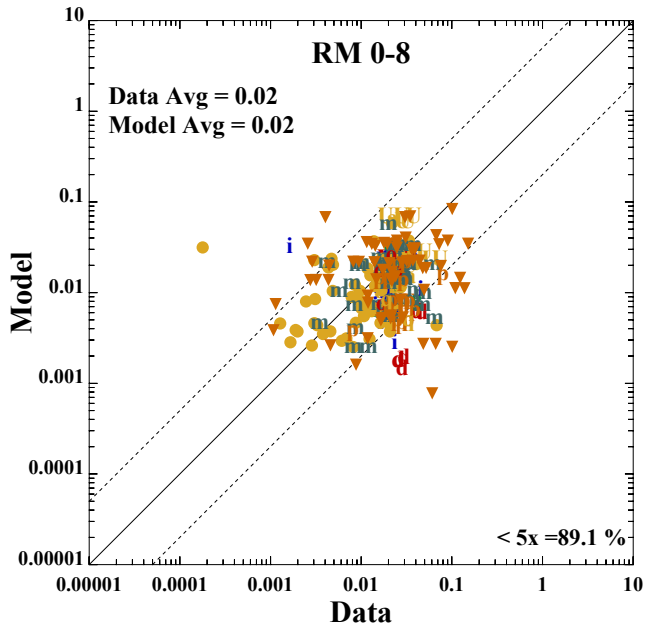
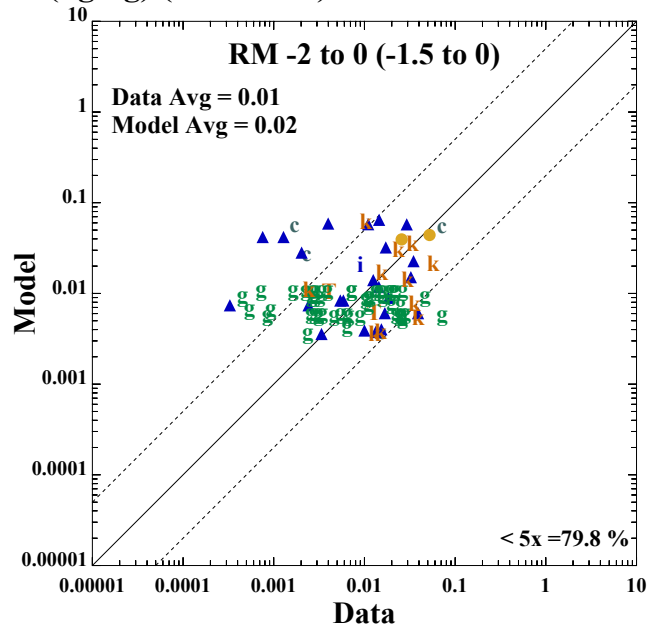
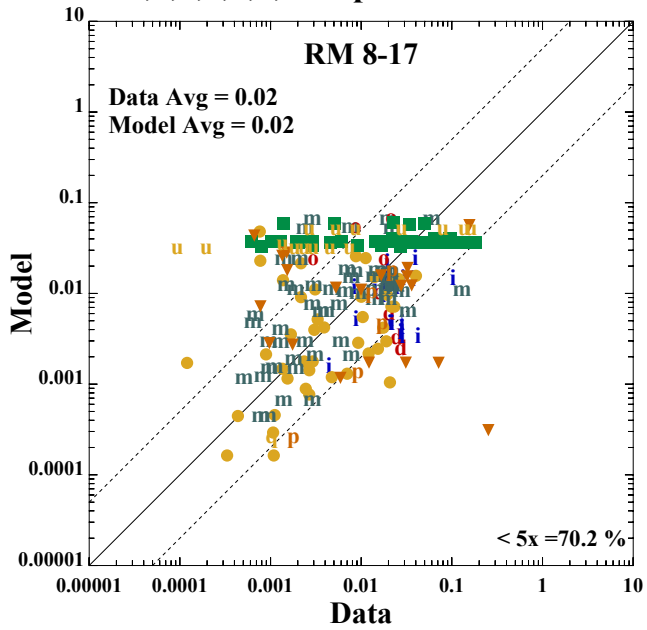
**Top 15cm Average Conc.  
2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
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- m 2009 CPG Benthic Sediment Study
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

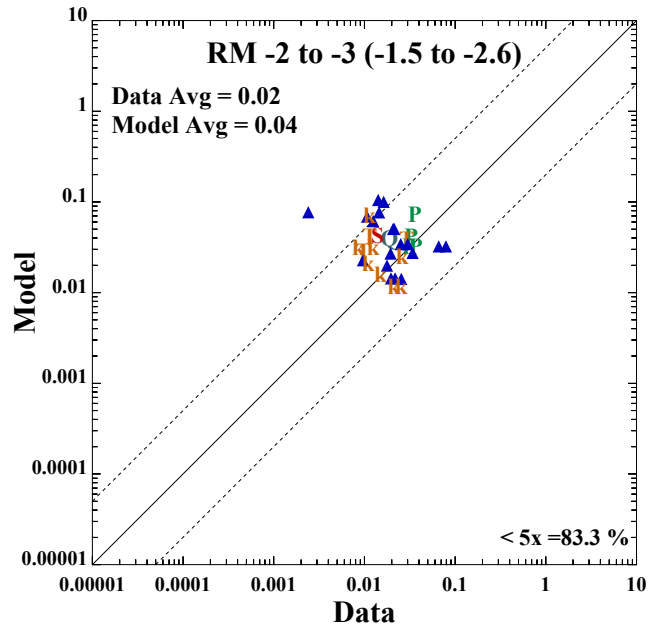
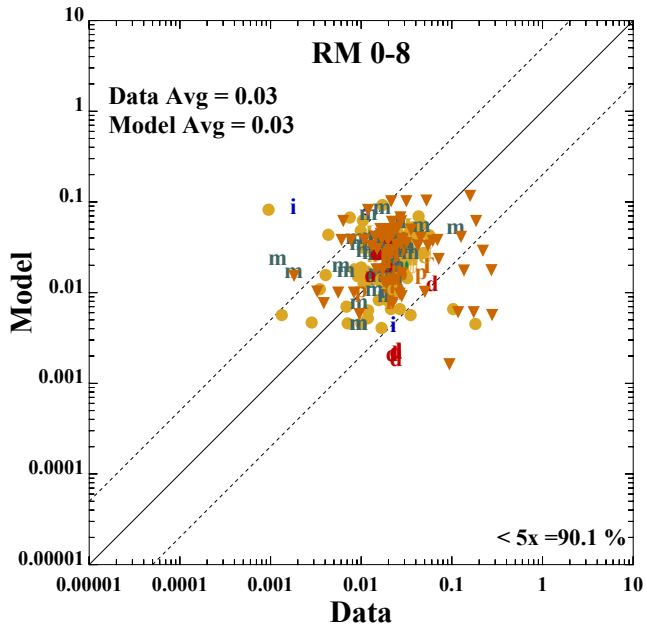
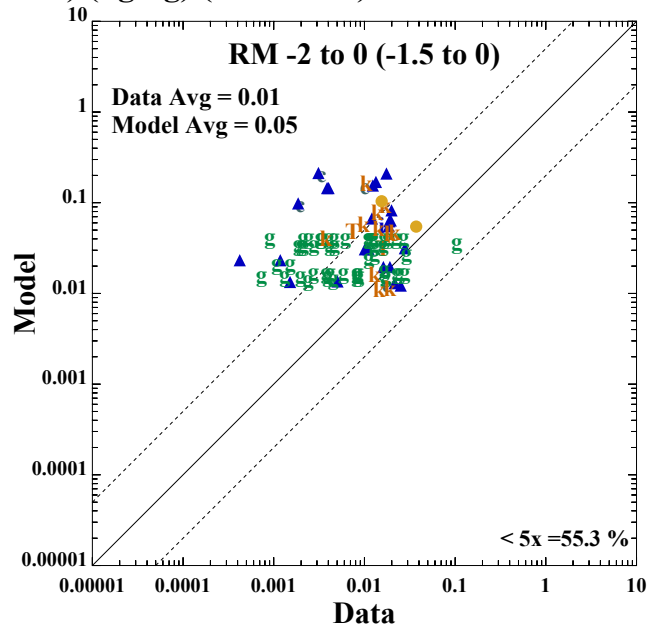
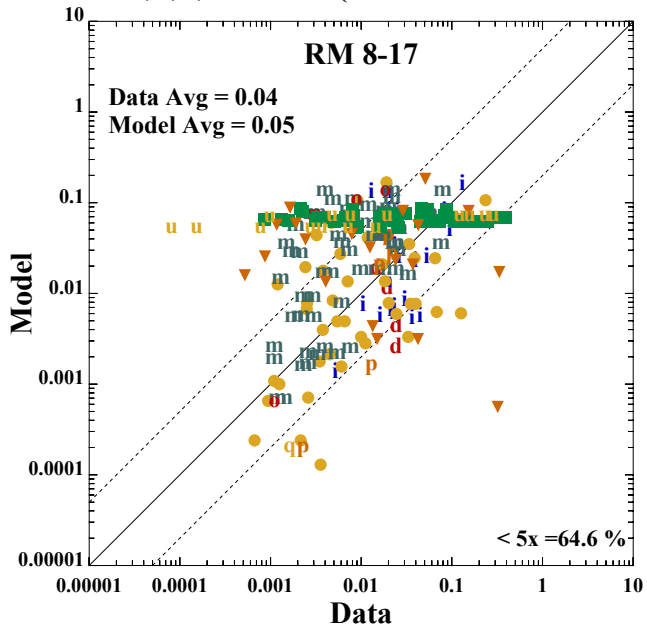


**Top 15cm Average Conc.  
1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)**

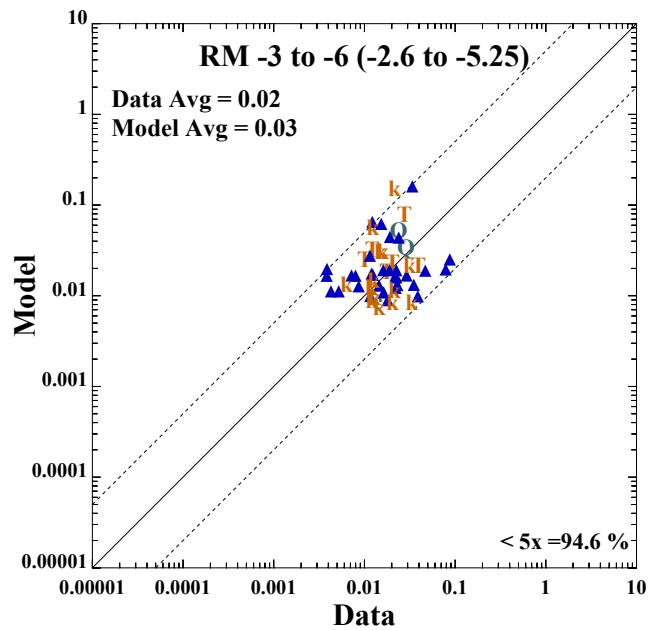


- P 1996 Newark Bay Reach A Sediment Sampling Program
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- j 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
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- o 2009 USEPA-MPI Benthic Oversight
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- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

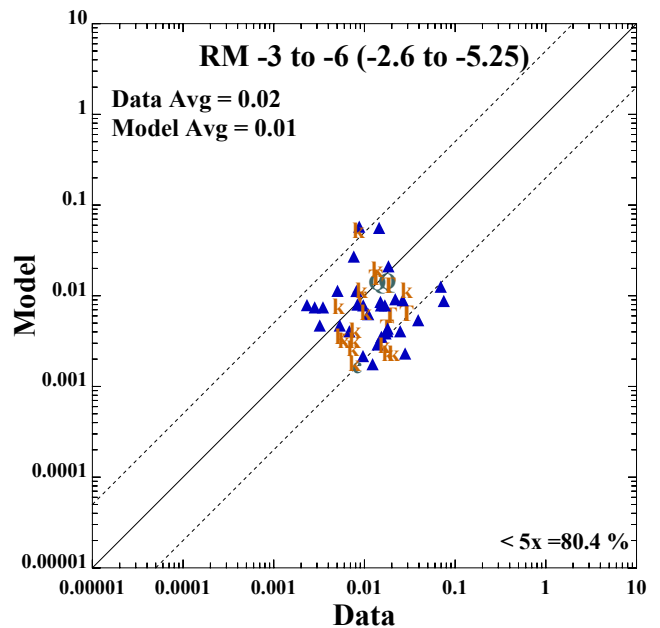
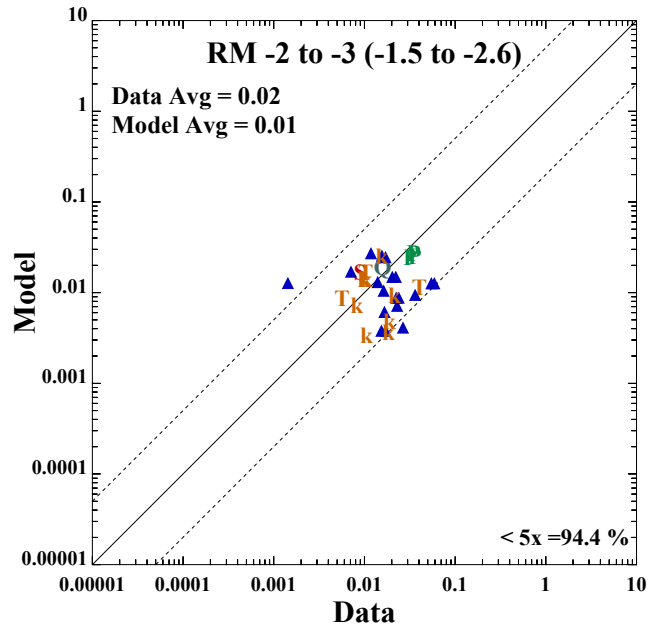
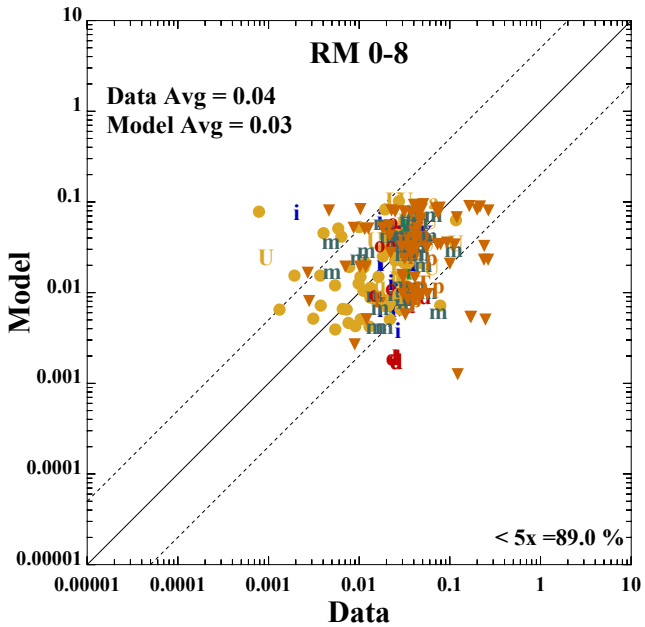
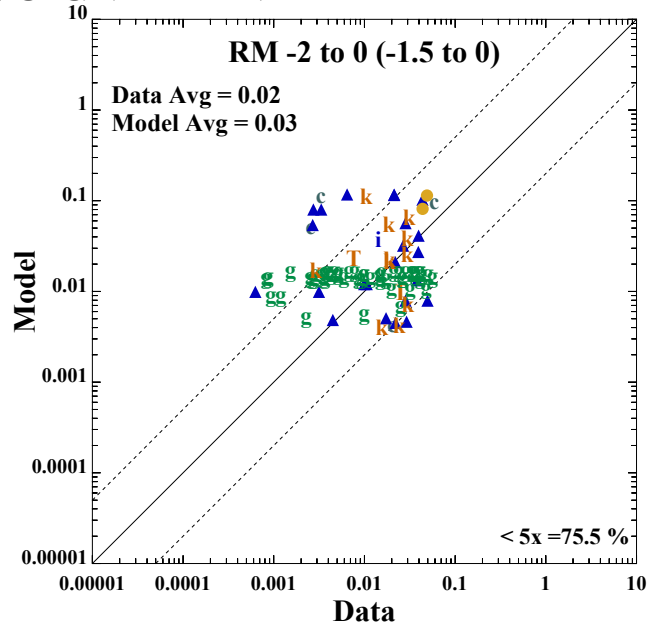
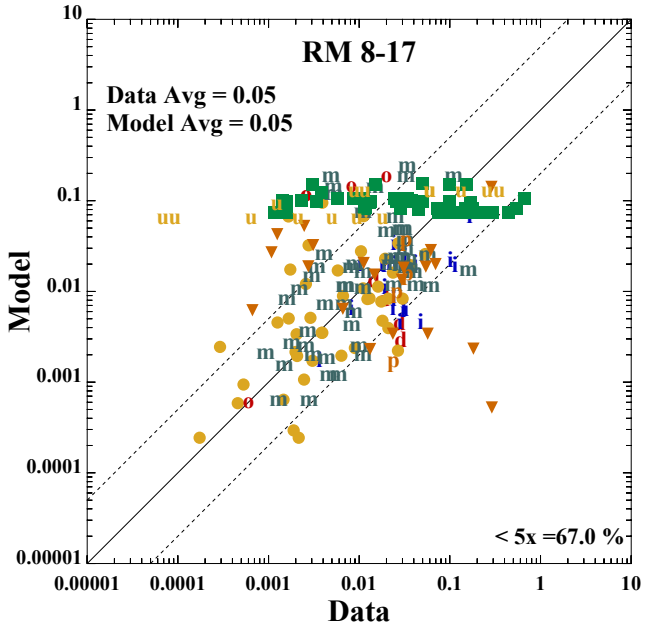
**Top 15cm Average Conc.  
2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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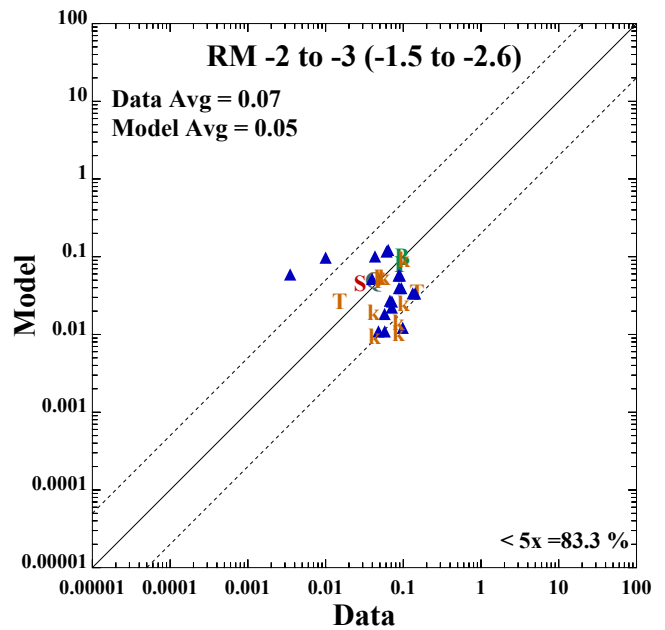
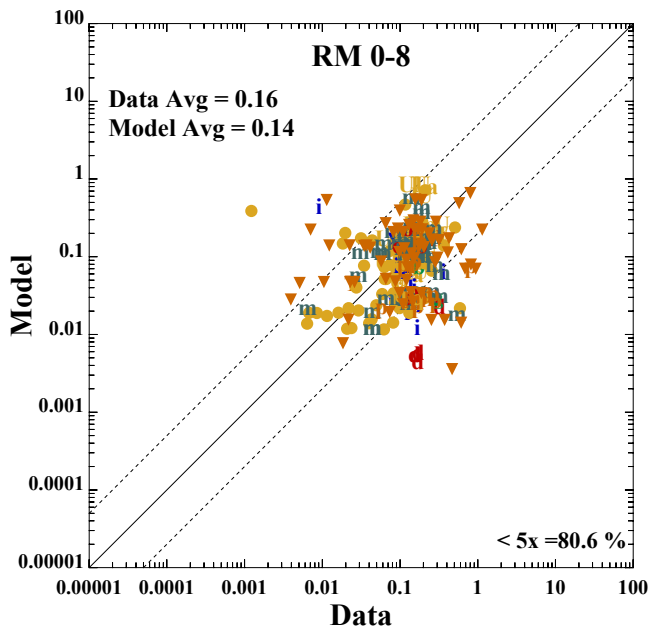
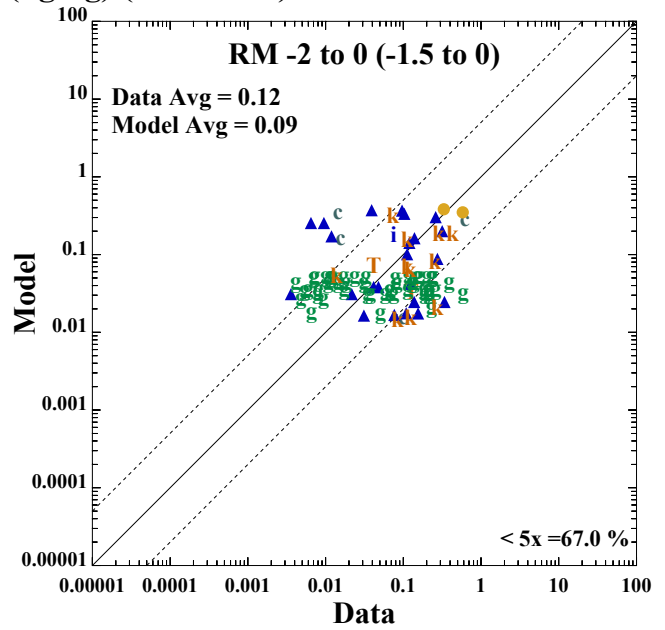
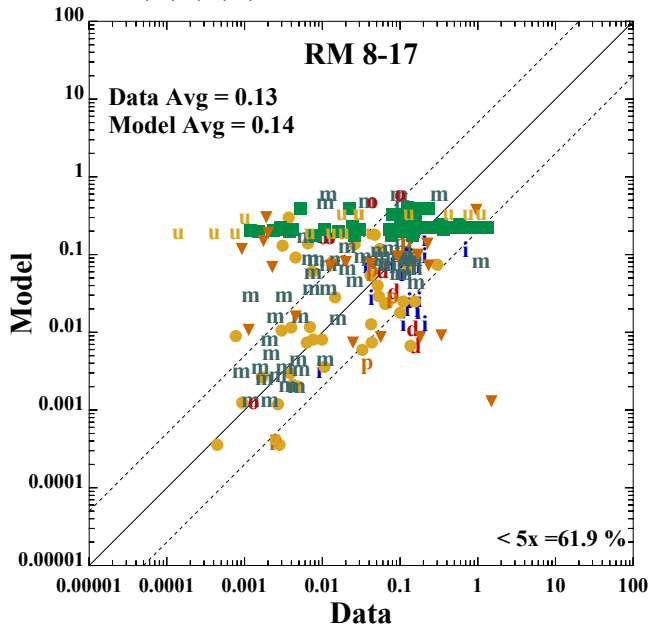
**Top 15cm Average Conc.  
2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)**



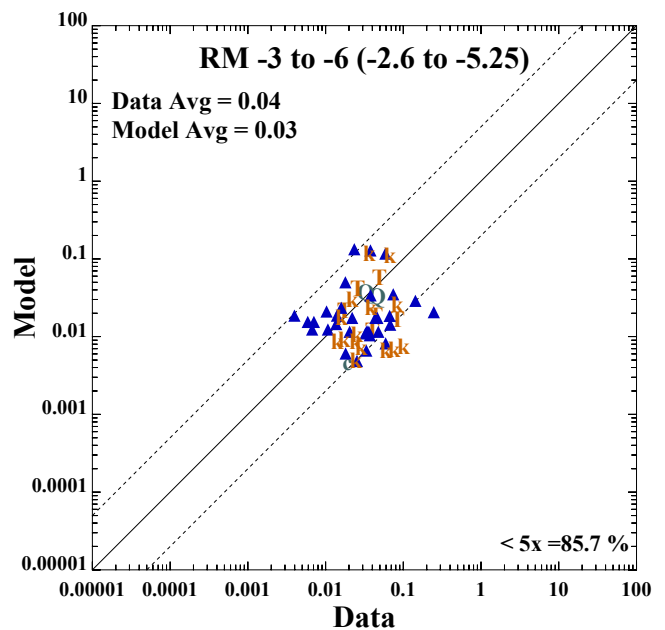
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



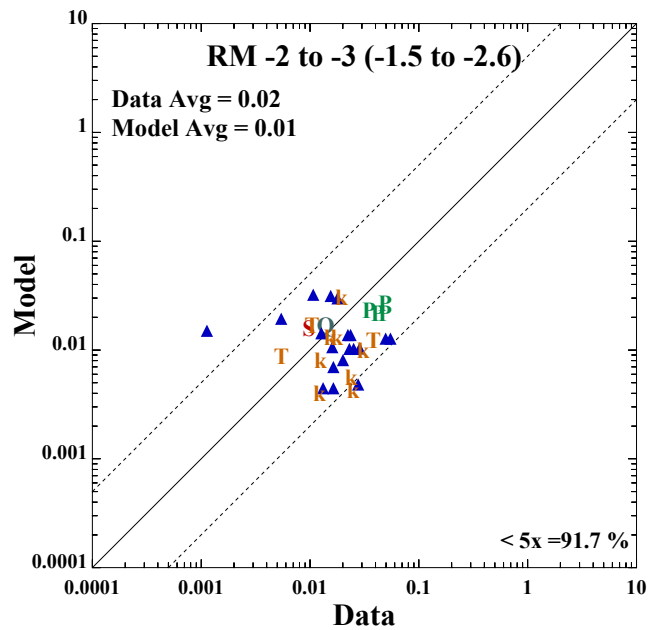
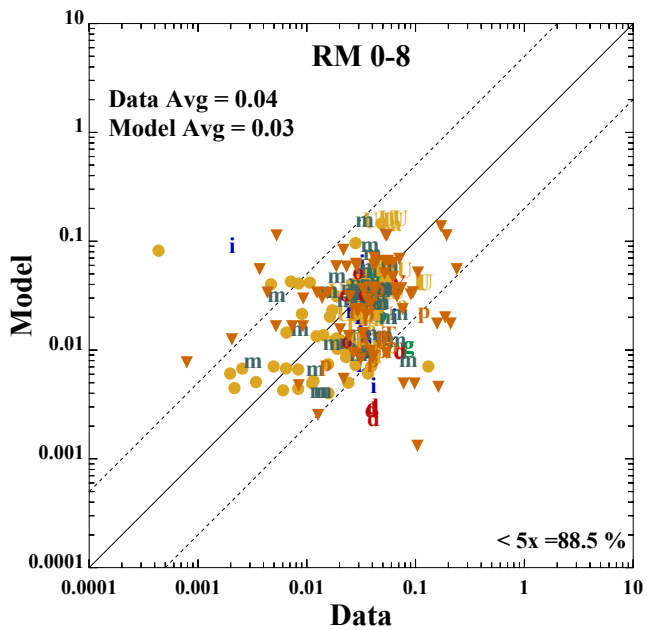
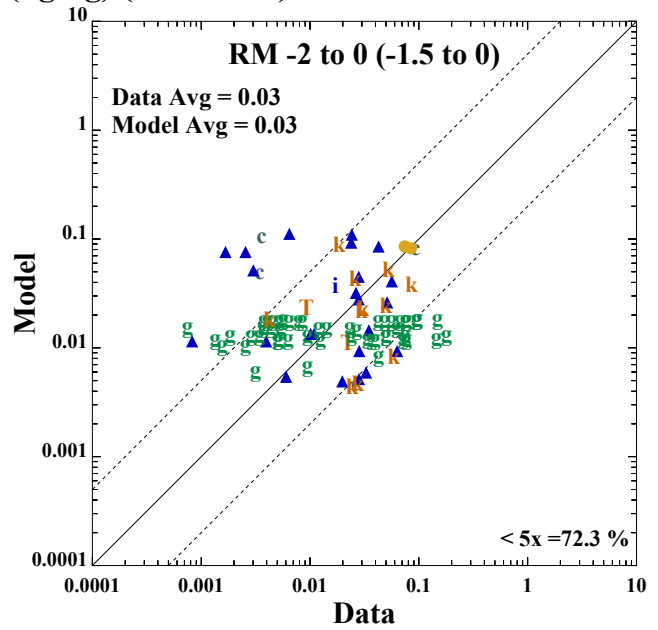
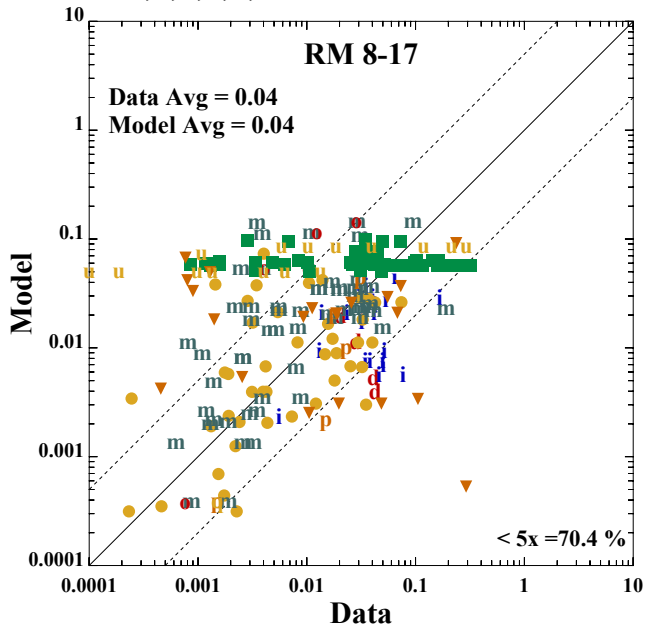
**Top 15cm Average Conc.  
1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)**



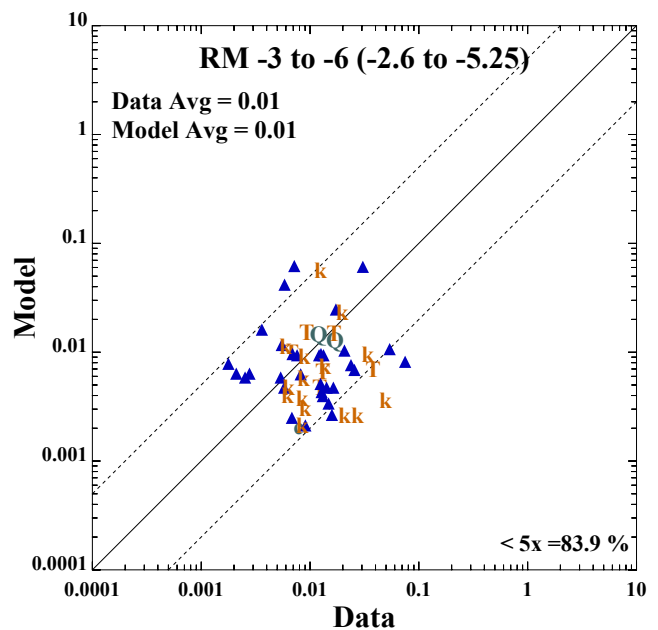
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
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- u 2012 CPG River Mile 10.9 Data



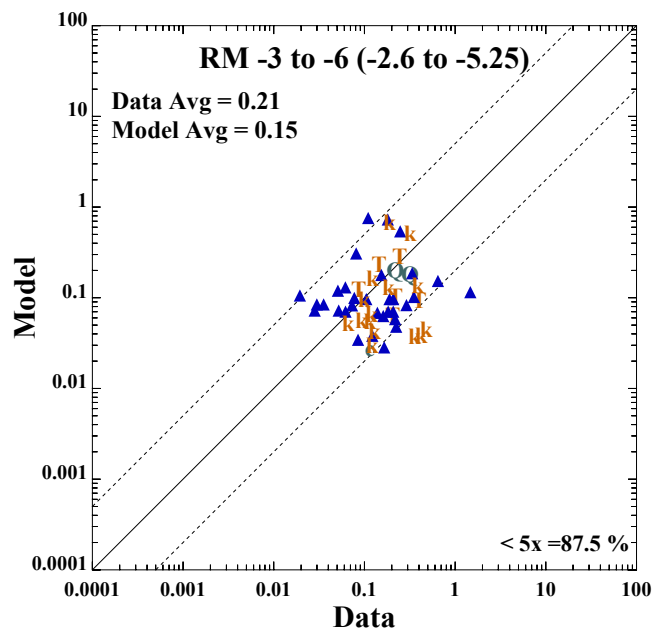
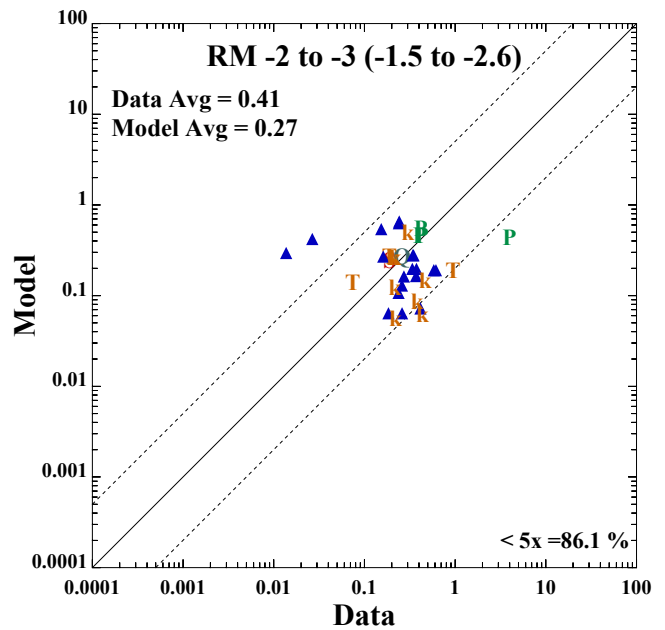
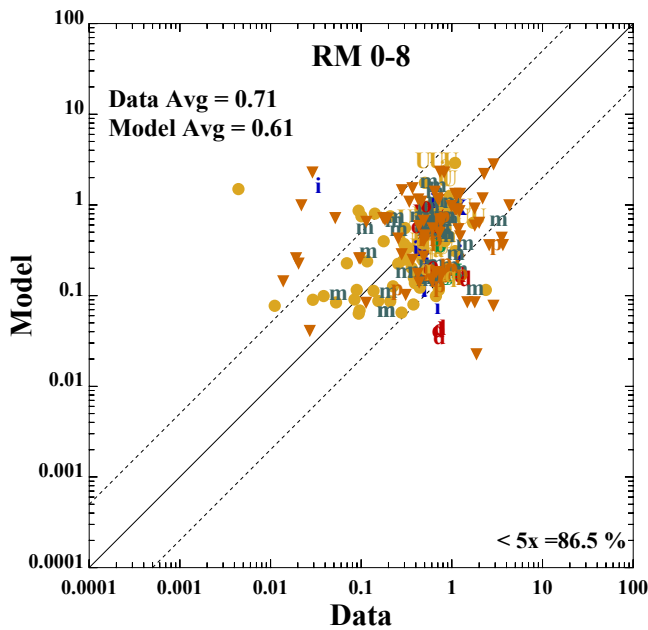
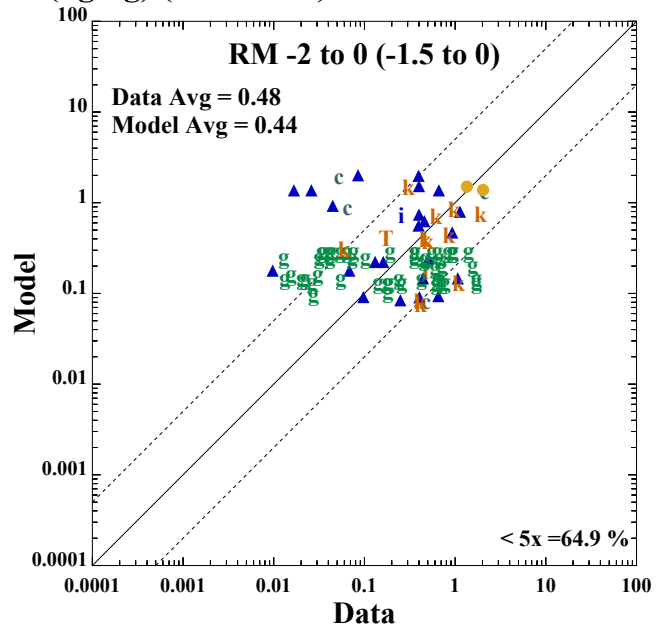
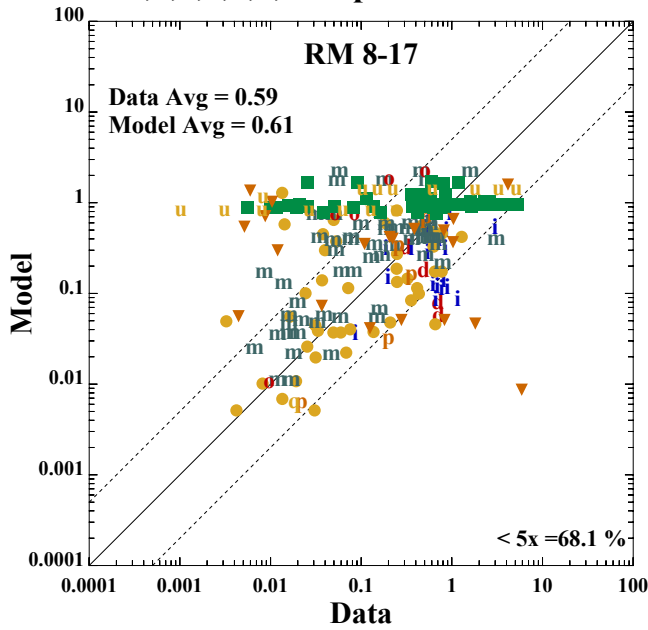
**Top 15cm Average Conc.  
1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)**



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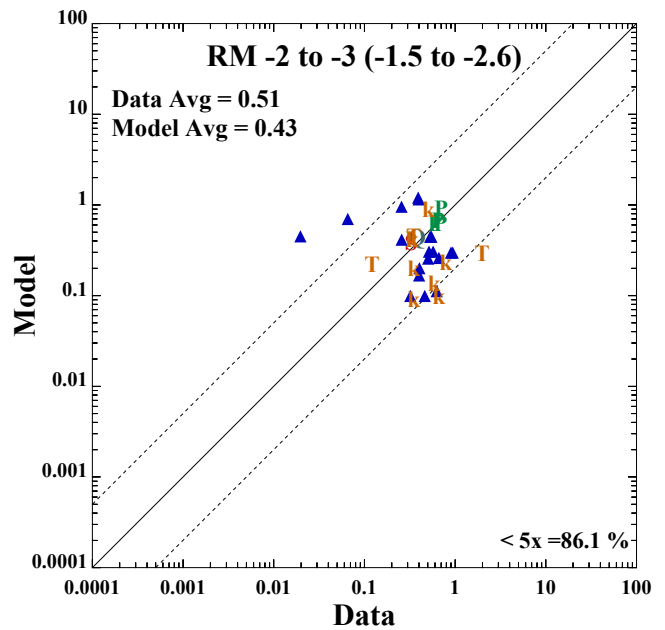
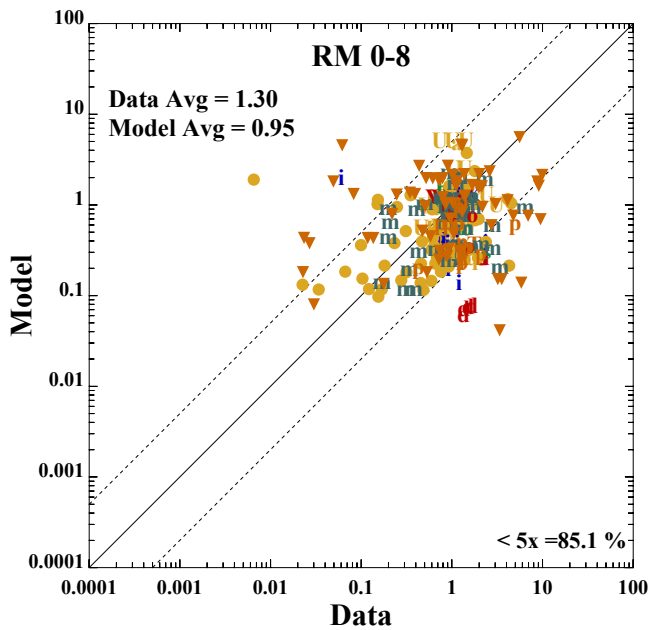
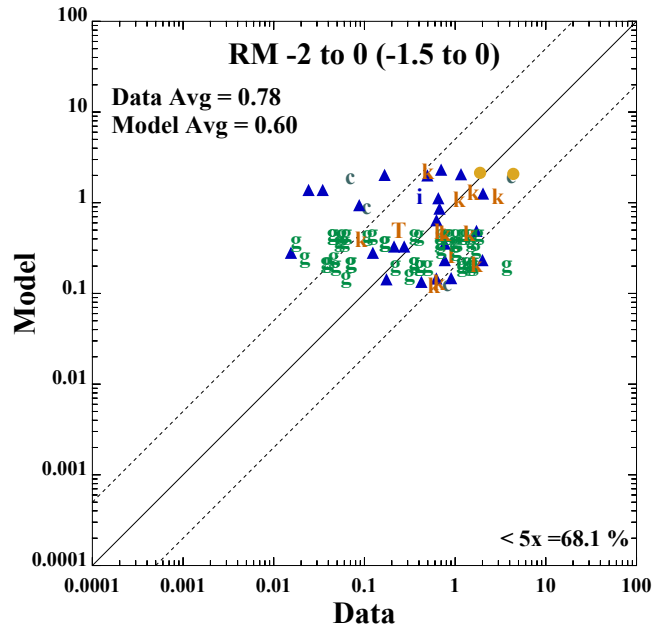
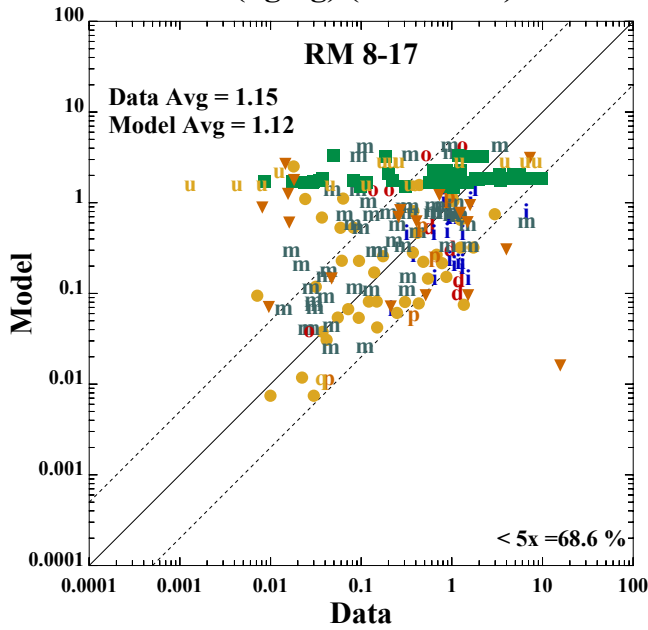


**Top 15cm Average Conc.  
1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)**

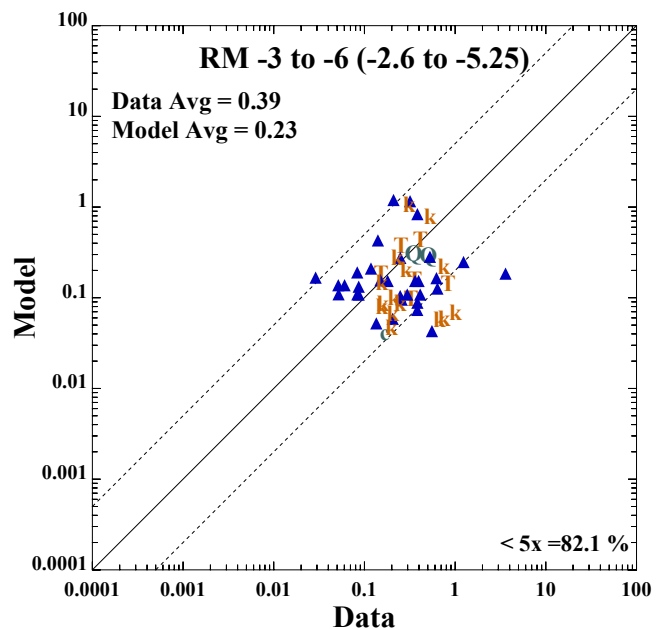


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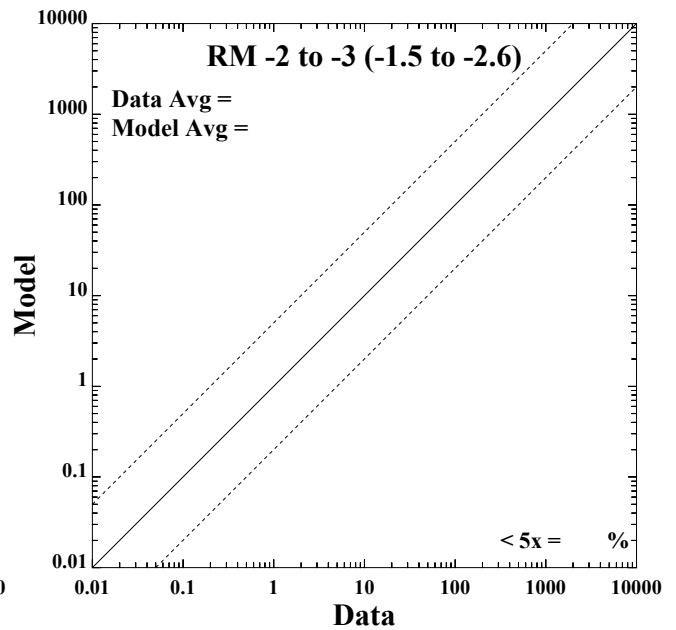
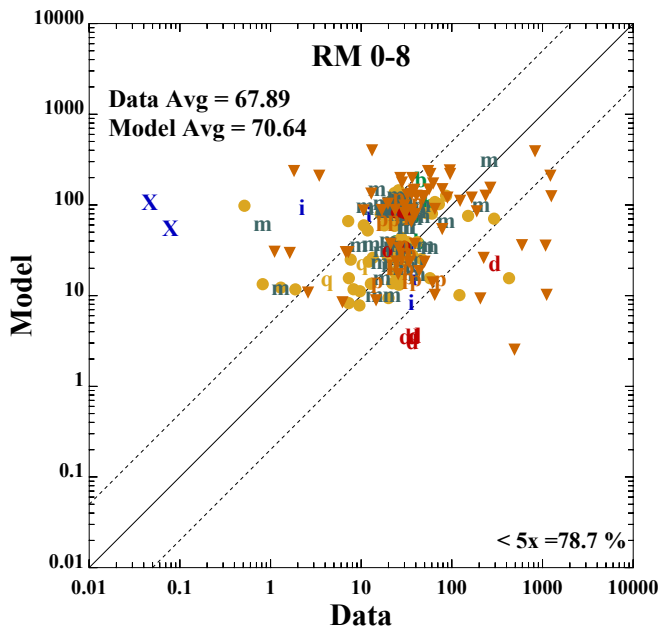
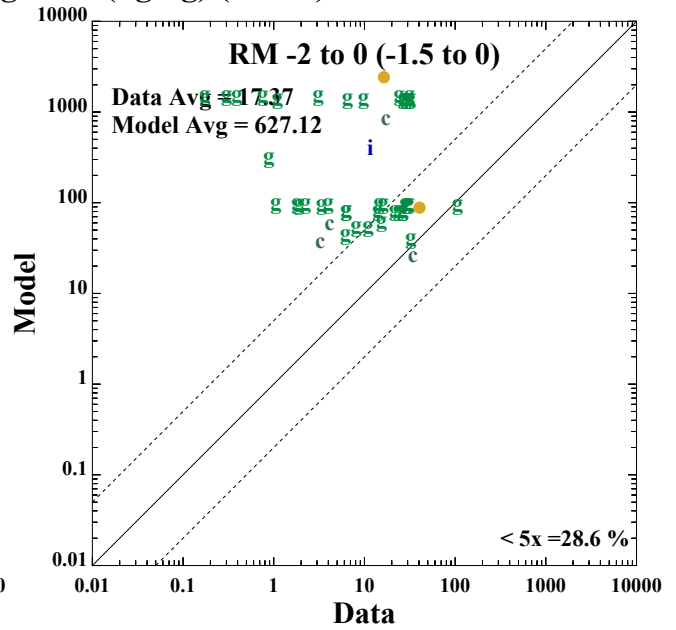
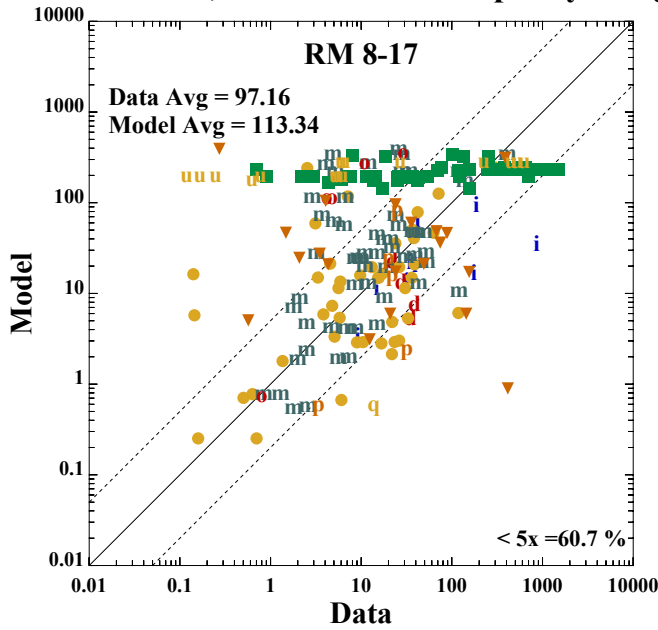
**Top 15cm Average Conc.  
OCDF (ug/kg) (DIOXIN3)**



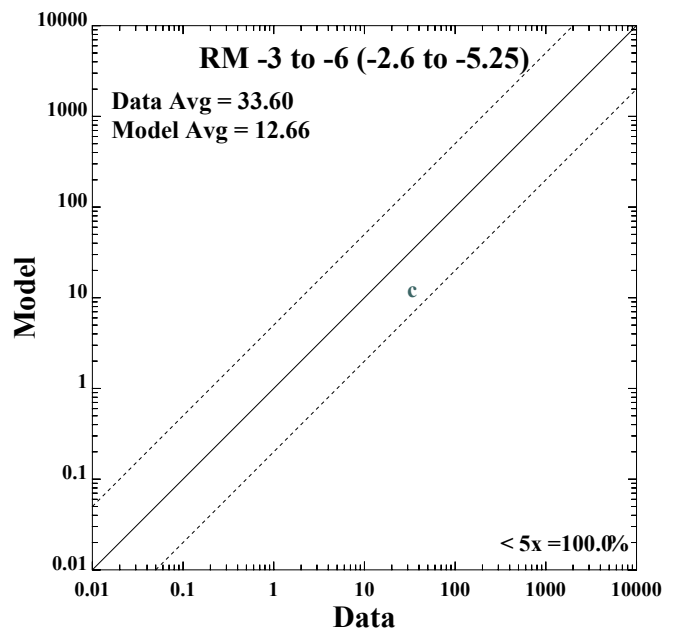
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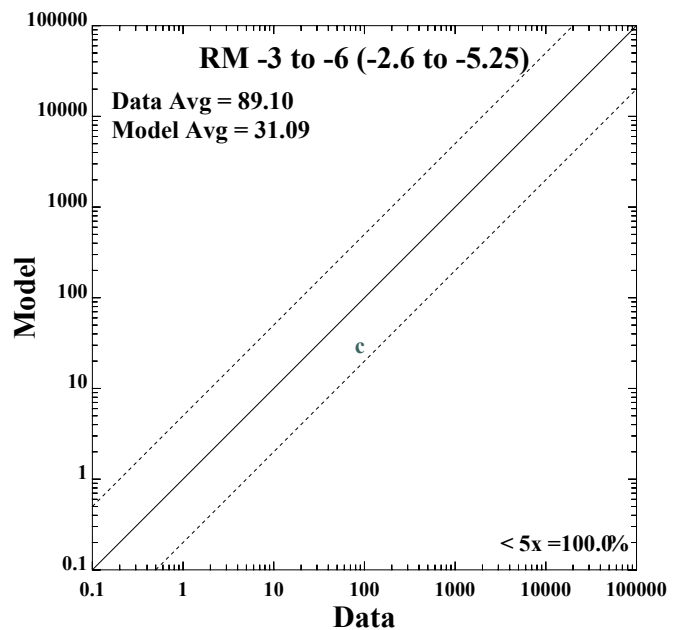
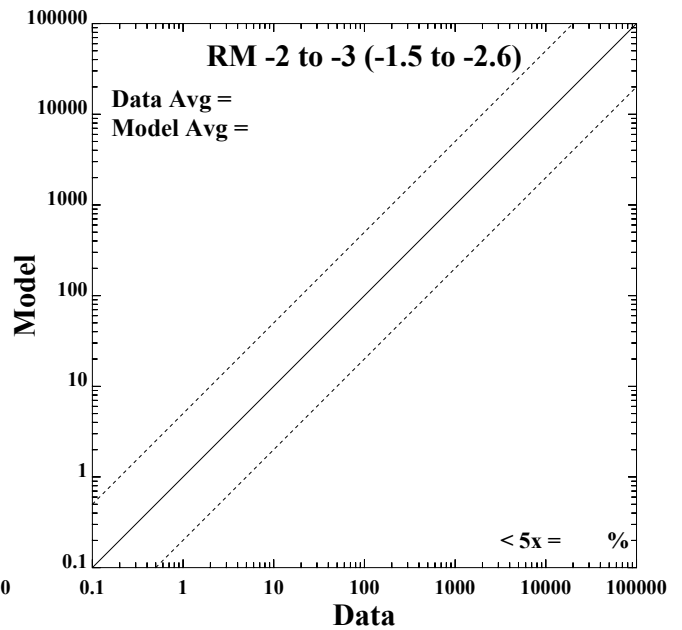
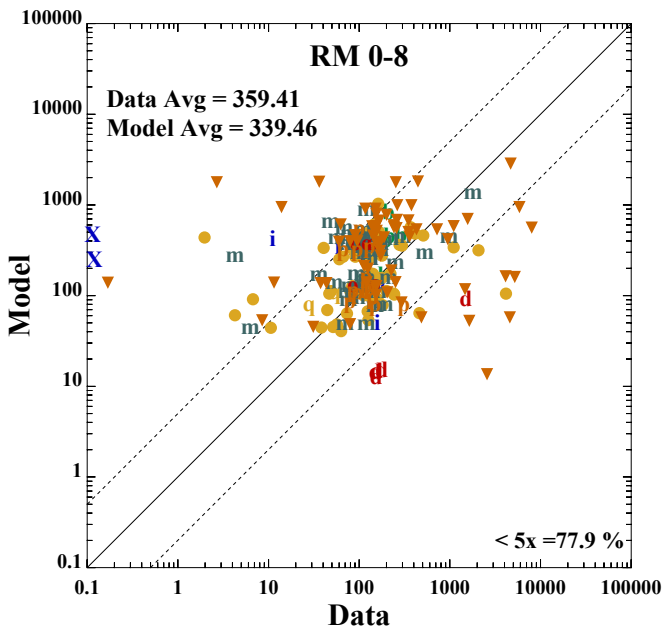
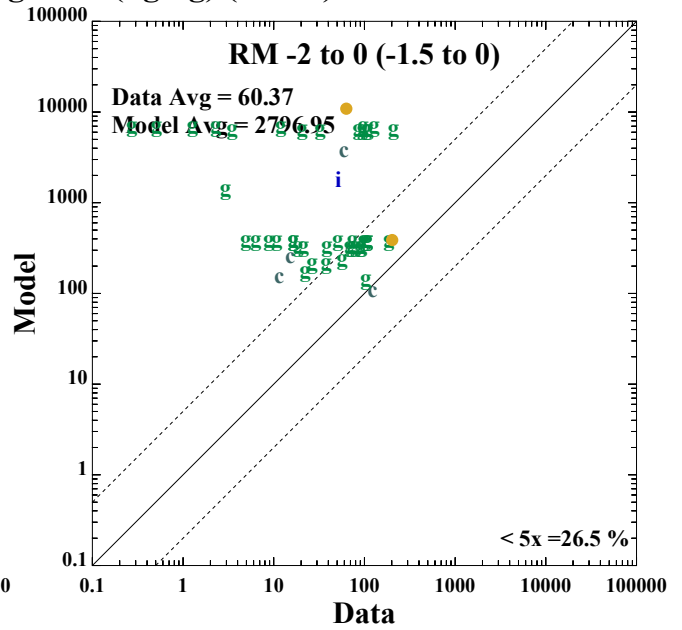
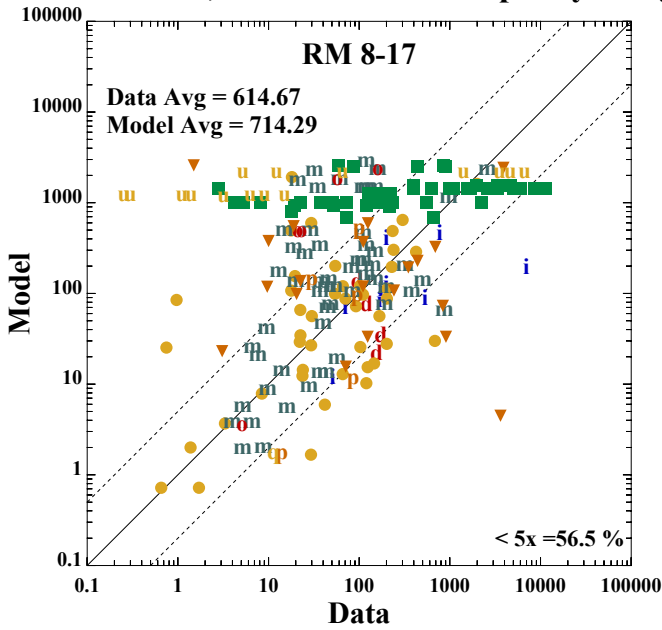
**Top 15cm Average Conc.  
PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
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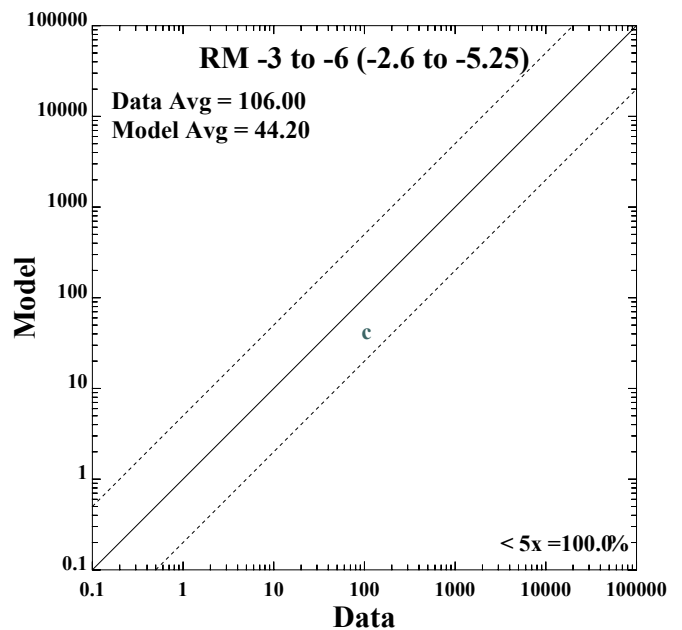
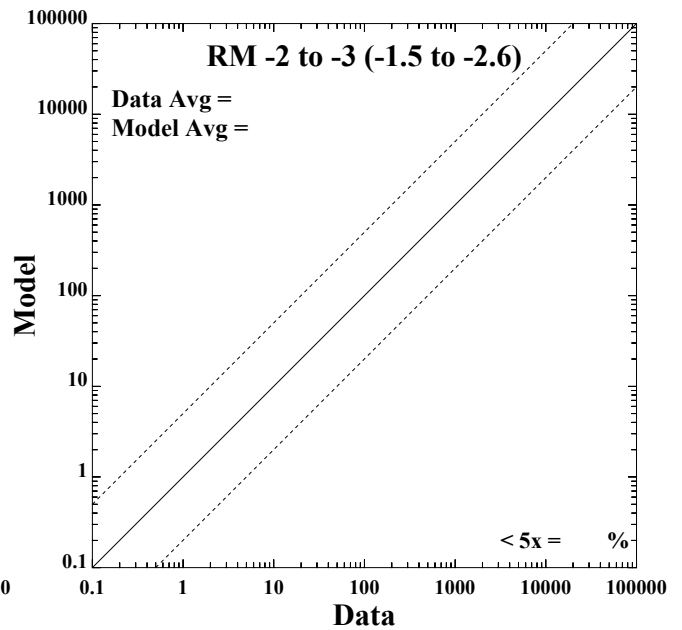
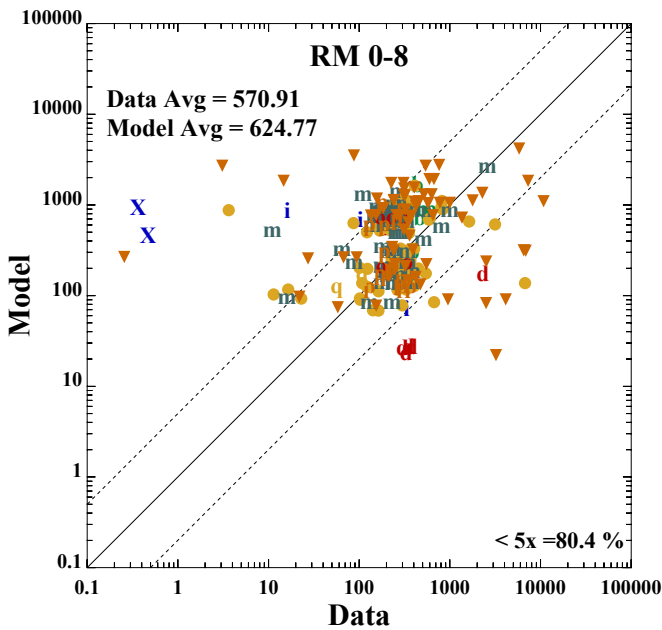
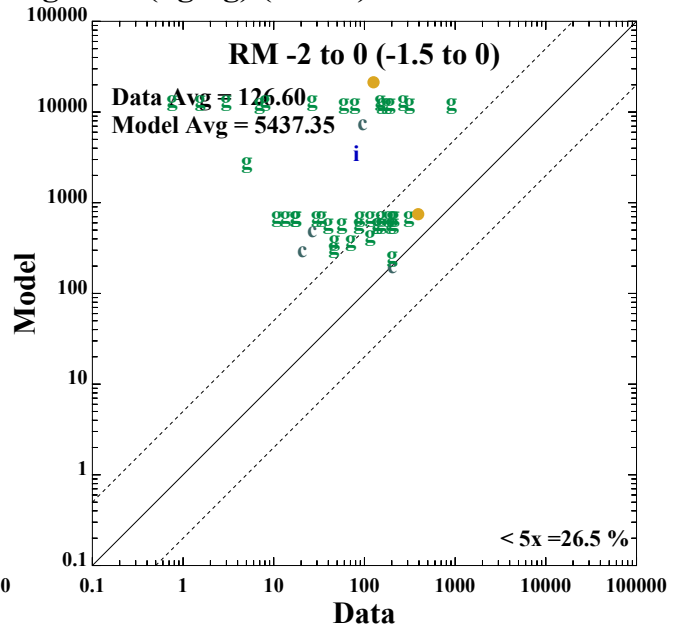
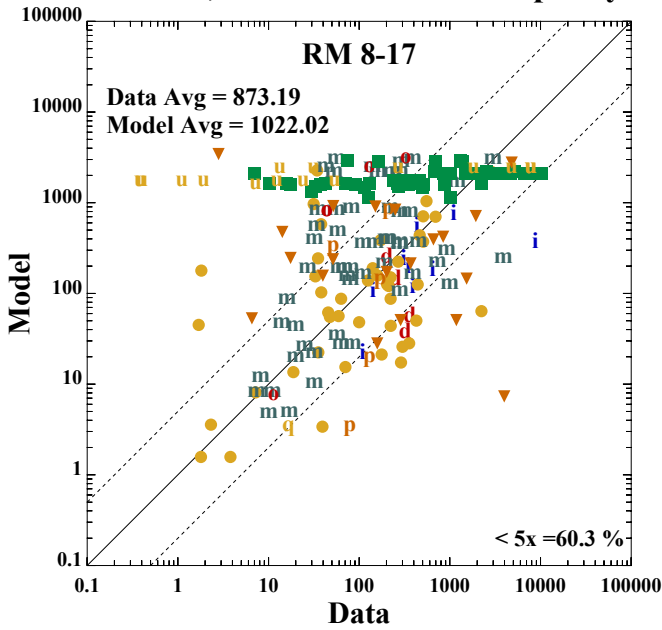


**Top 15cm Average Conc.  
PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)**



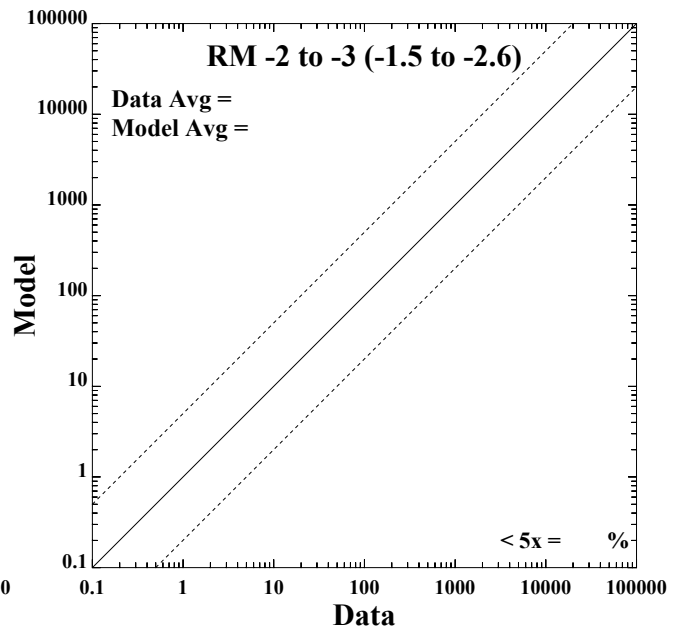
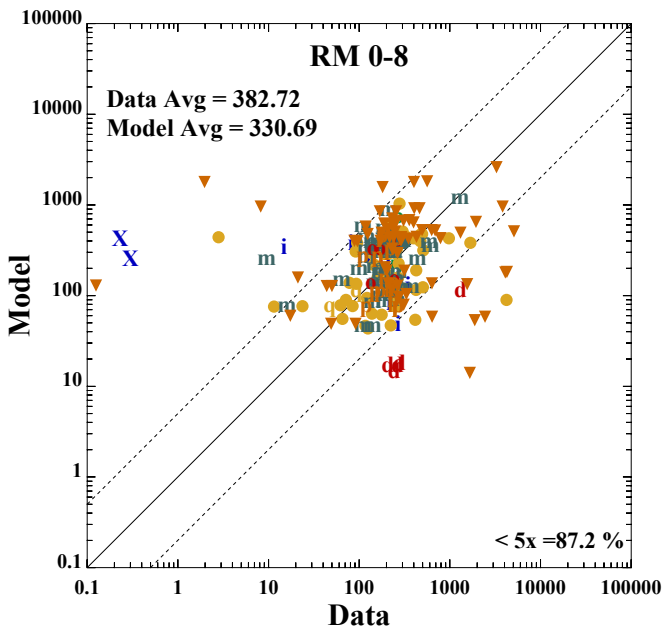
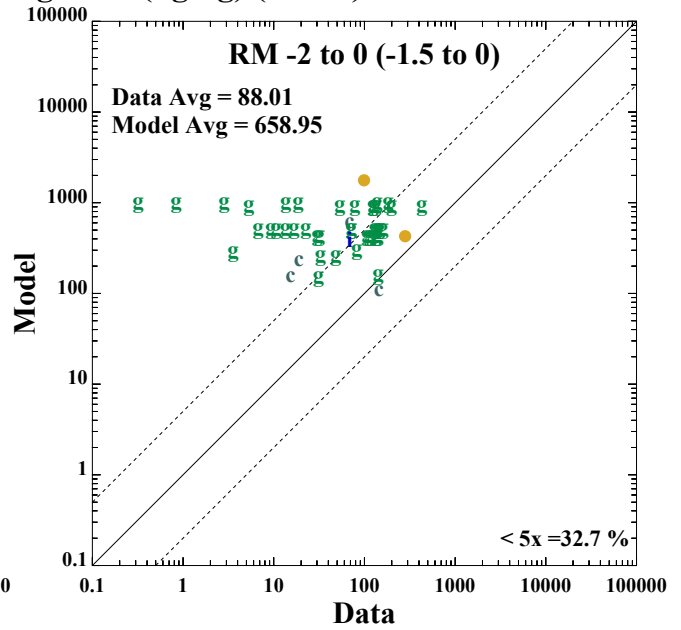
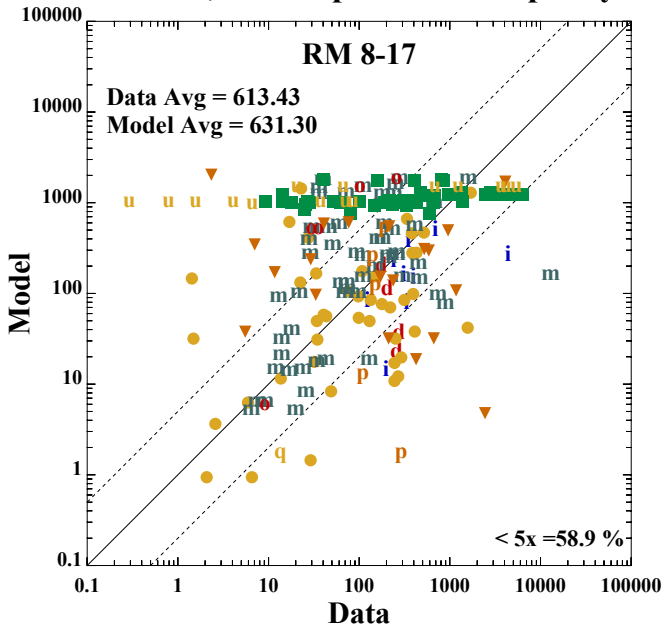
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**Top 15cm Average Conc.  
PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)**

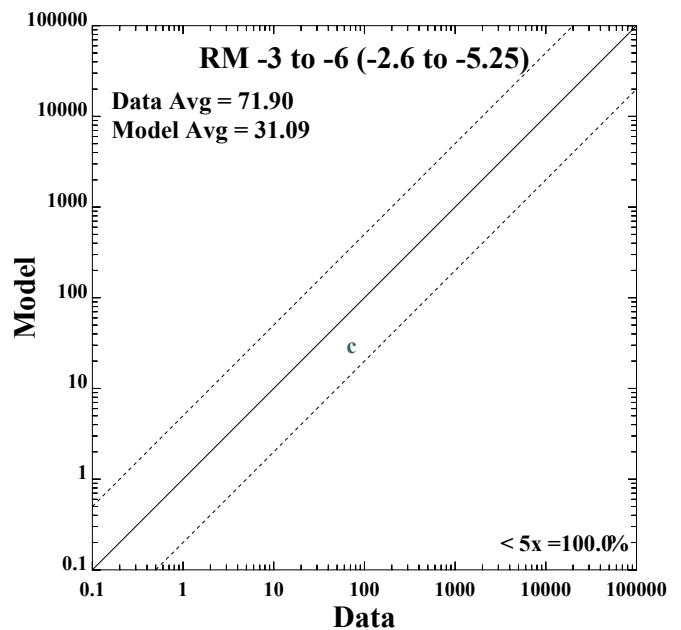


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**Top 15cm Average Conc.  
PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)**

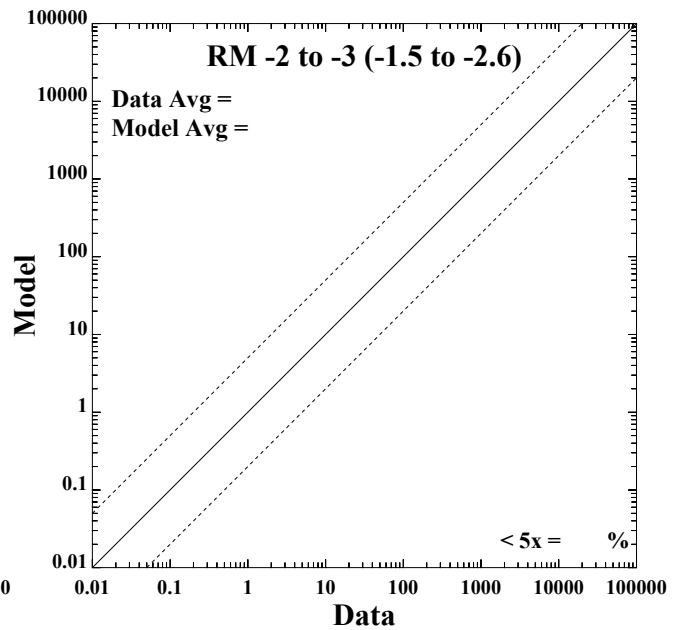
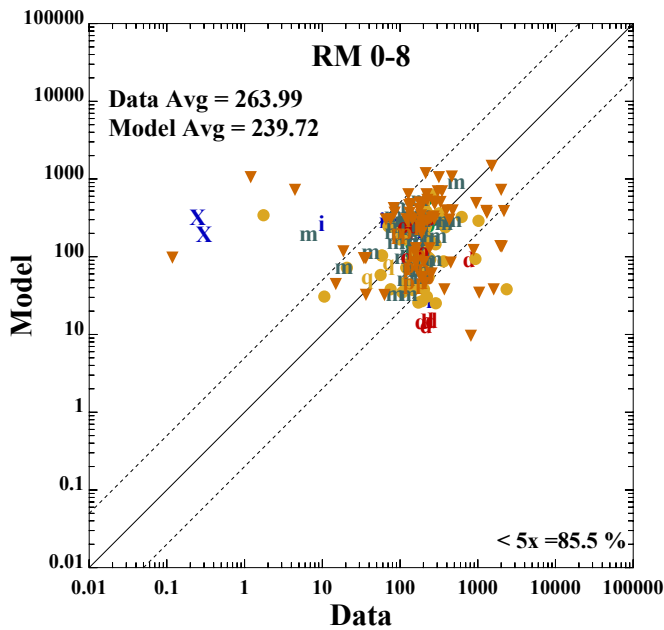
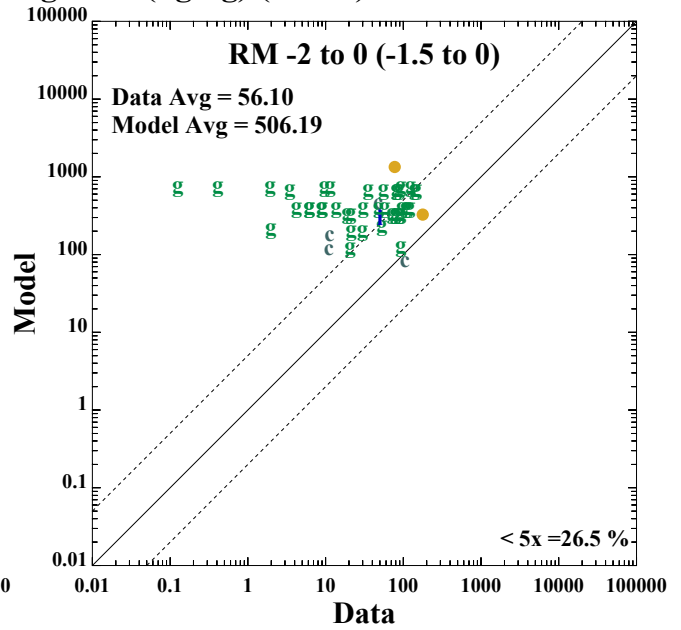
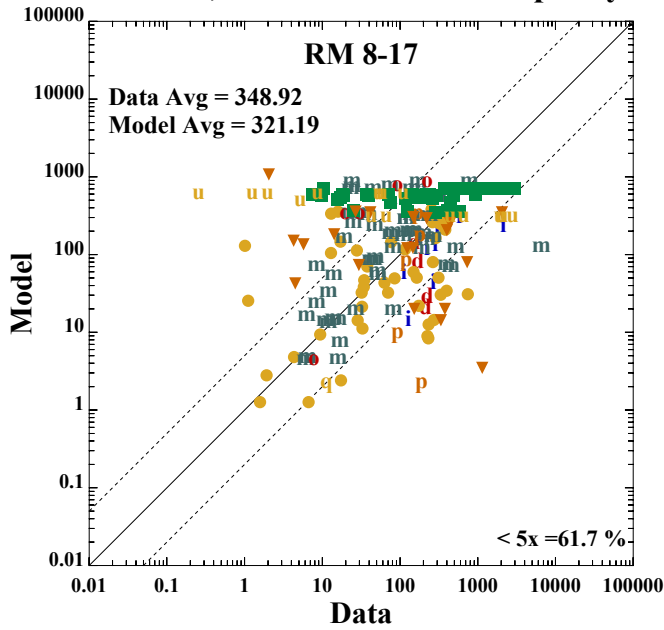


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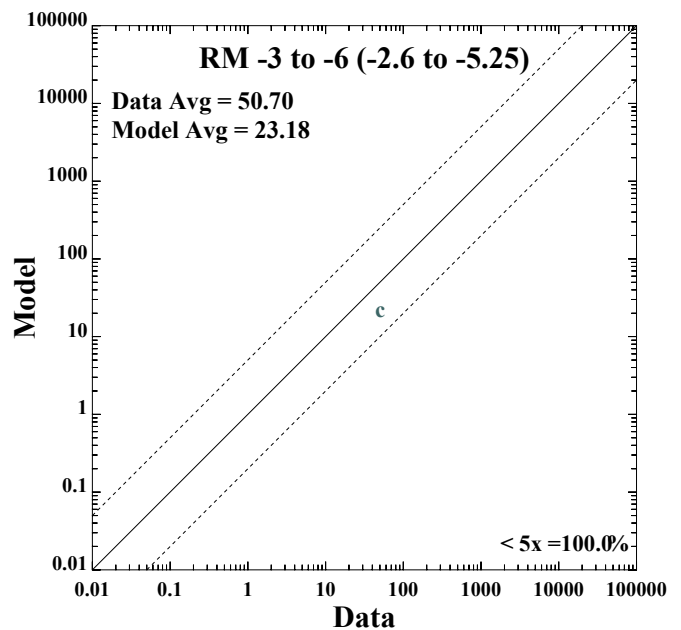




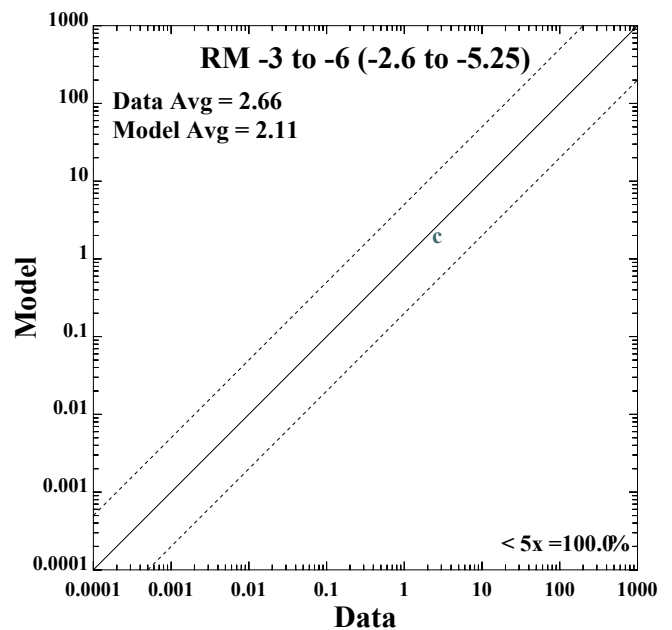
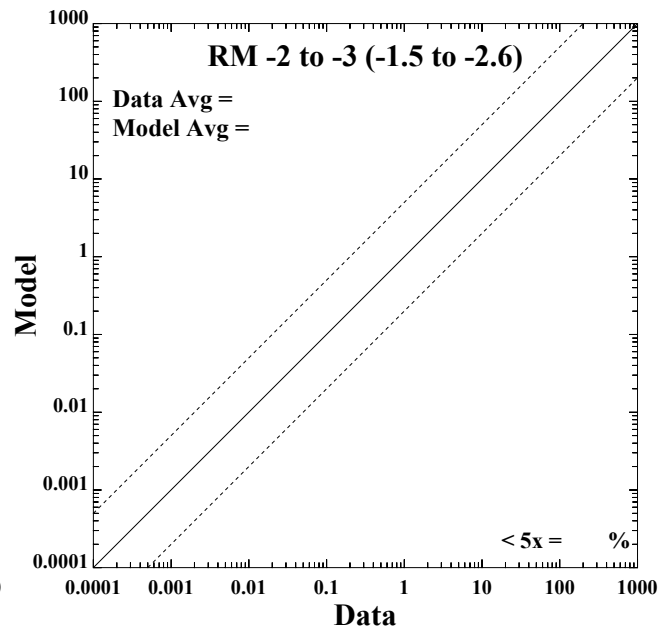
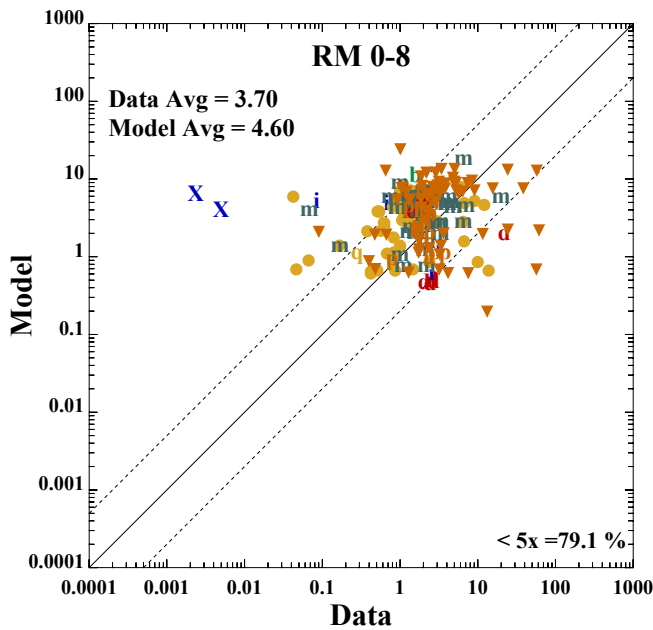
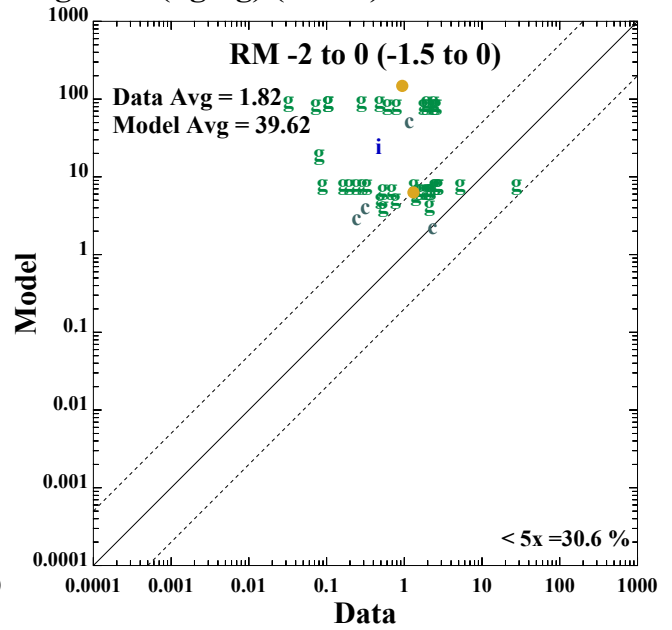
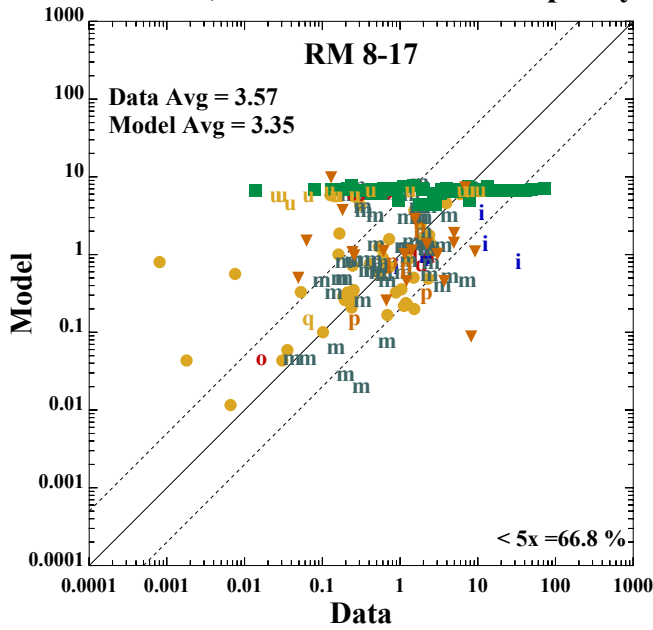
**Top 15cm Average Conc.  
PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)**



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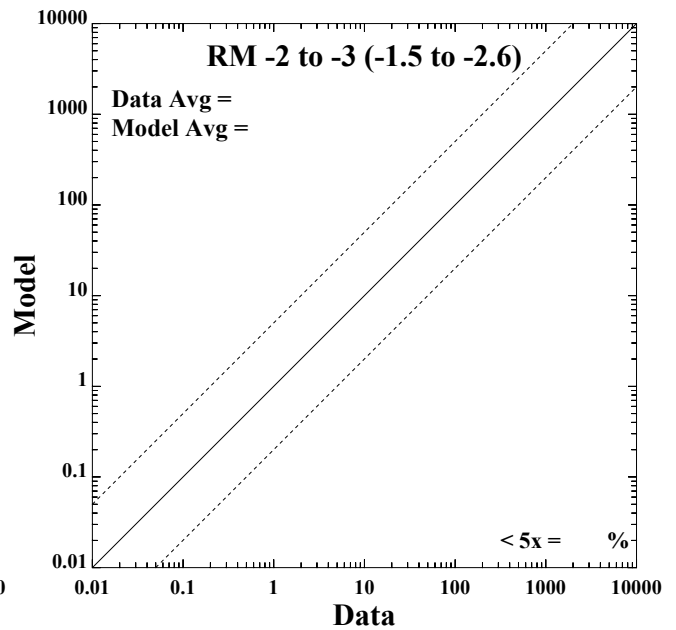
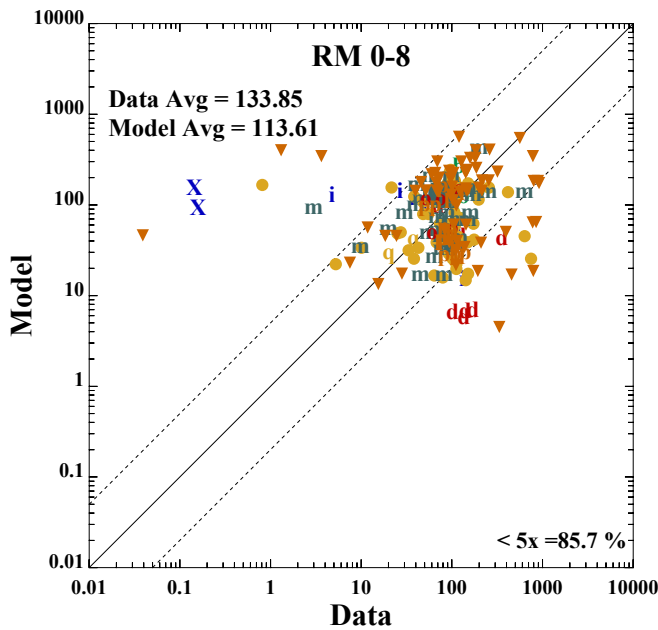
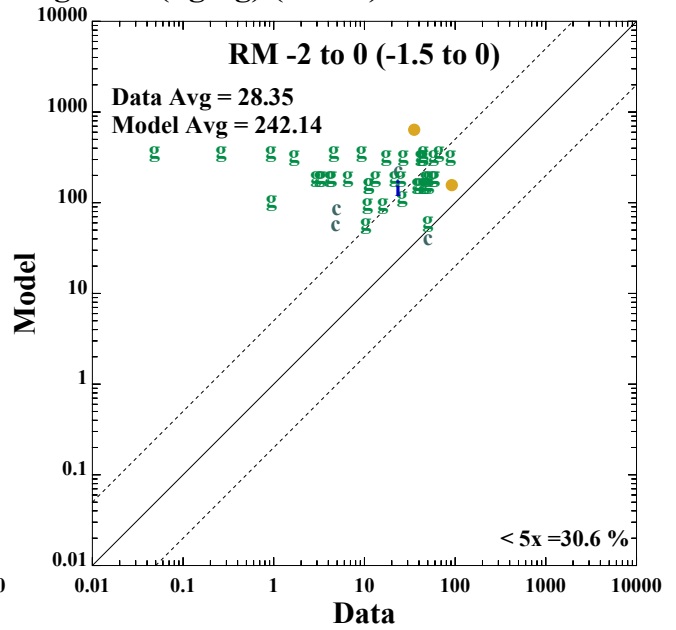
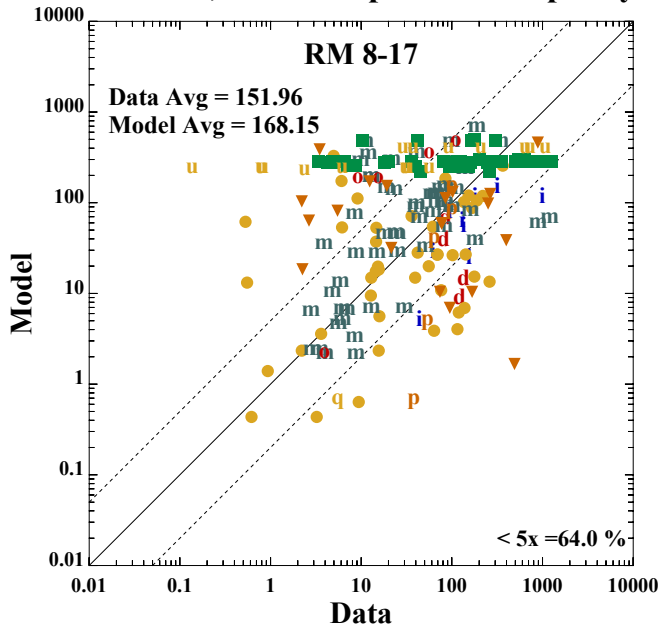


**Top 15cm Average Conc.  
PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)**

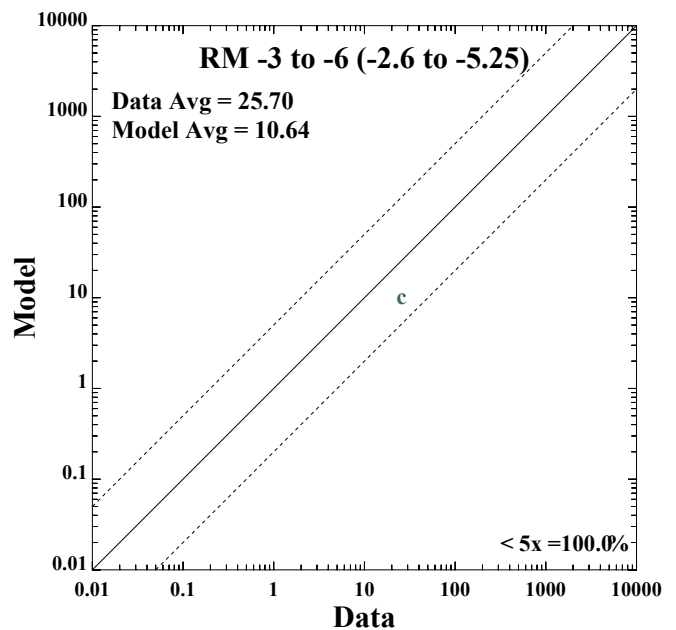


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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

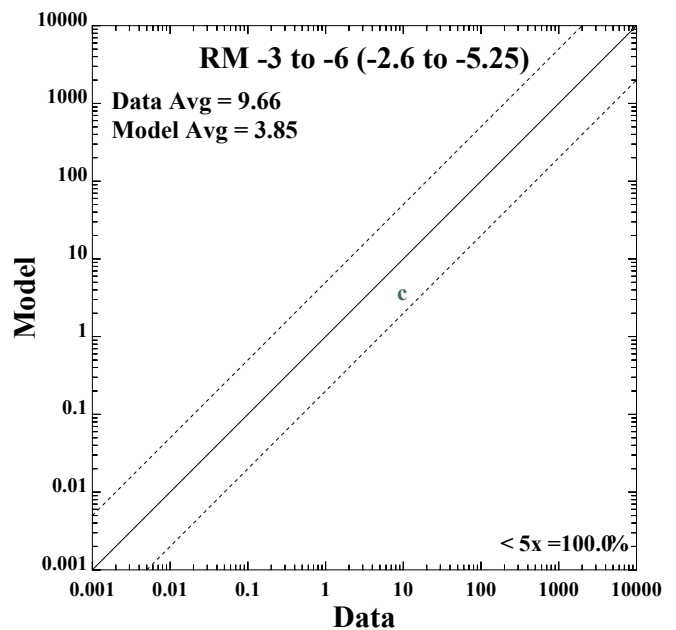
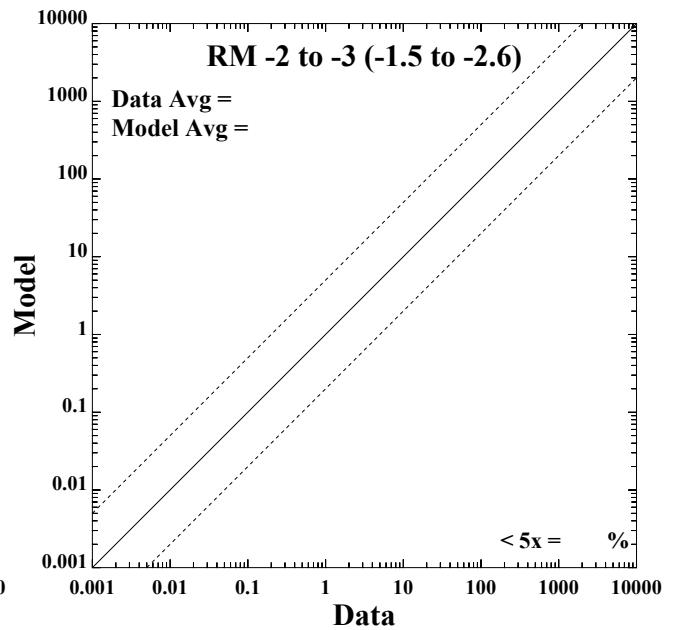
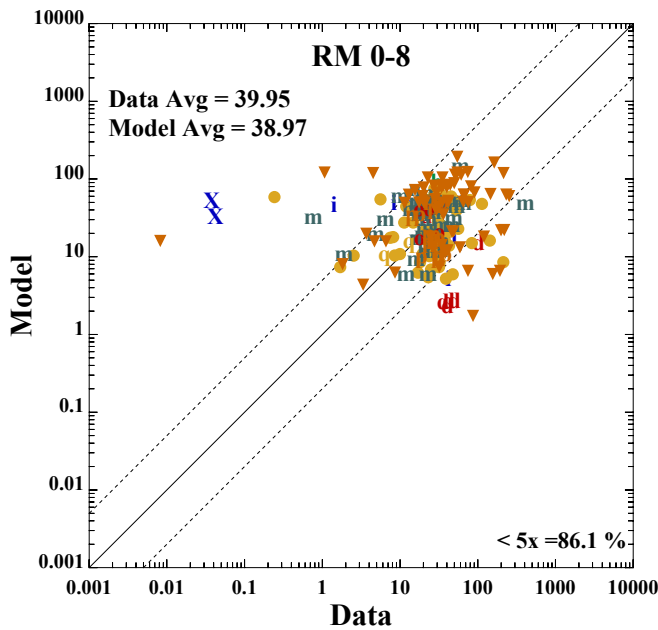
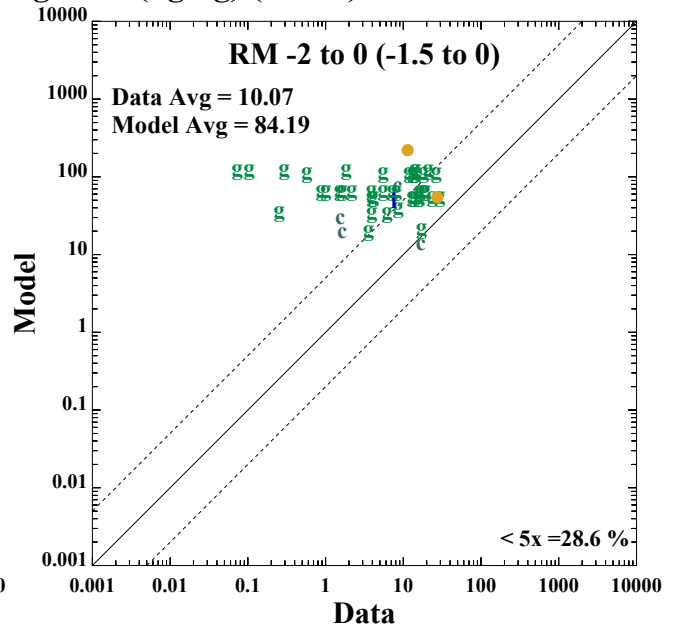
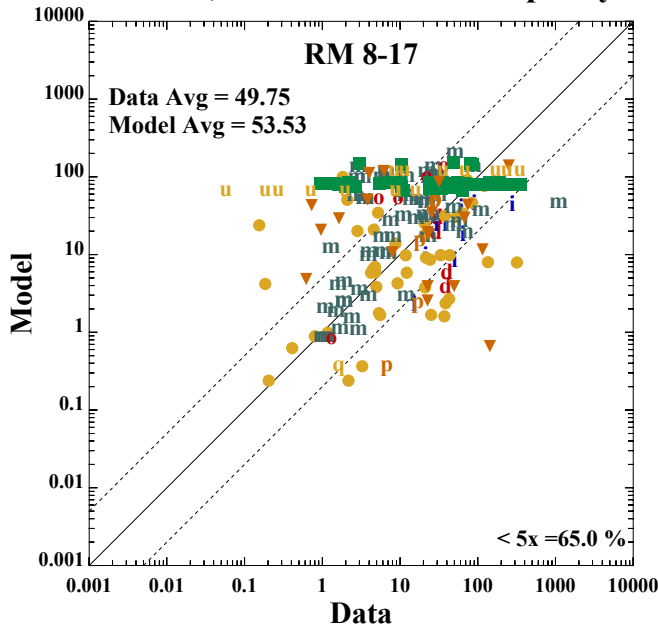
**Top 15cm Average Conc.  
PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

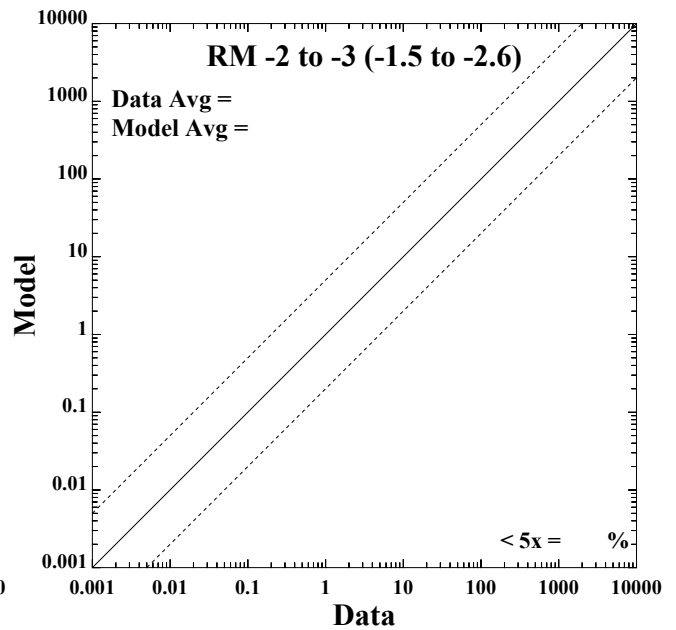
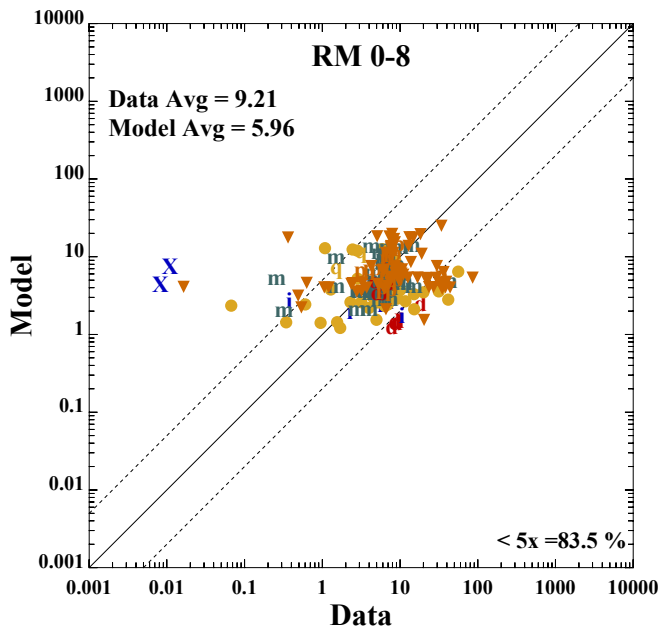
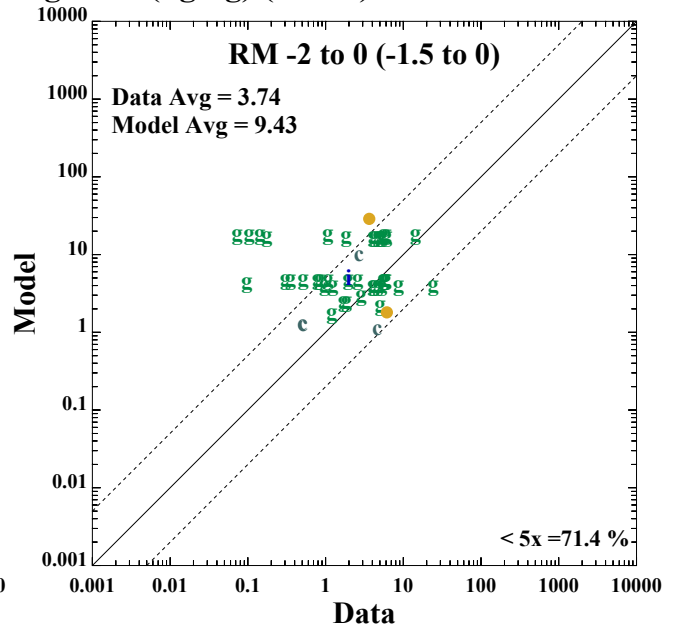
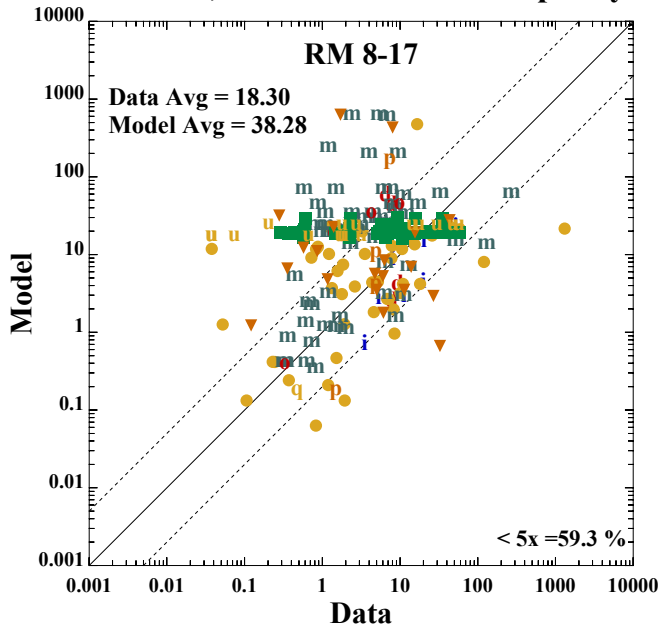


**Top 15cm Average Conc.  
PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)**

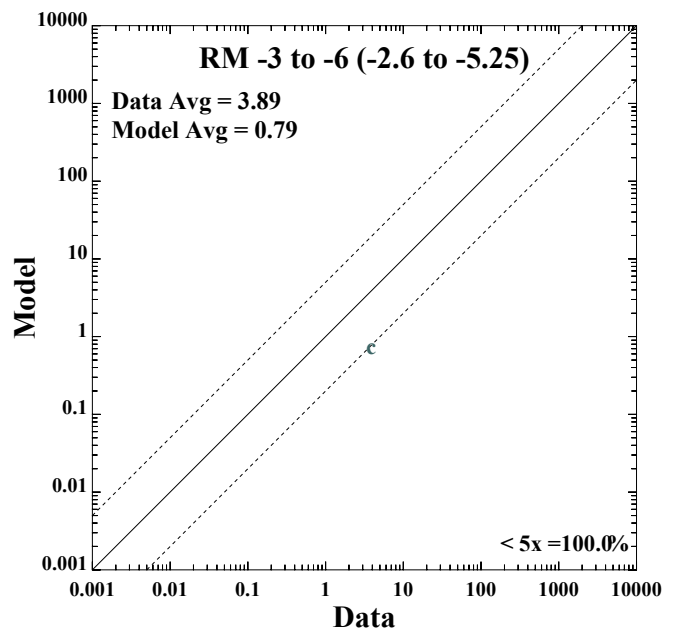


- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

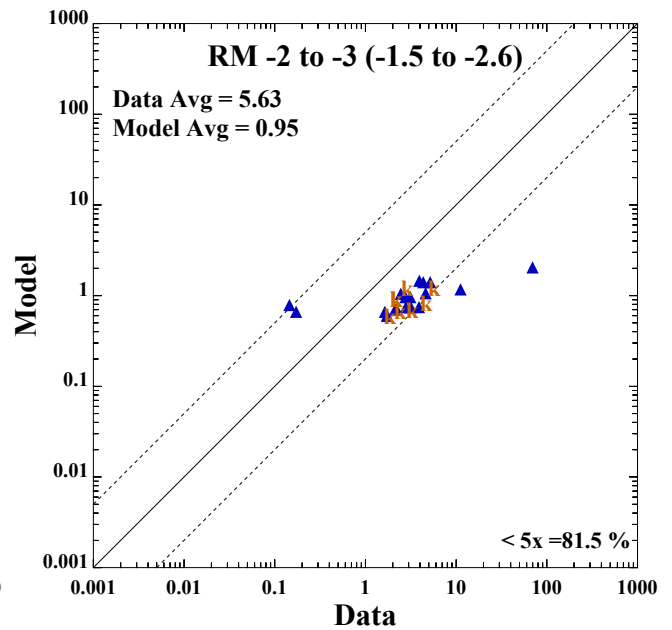
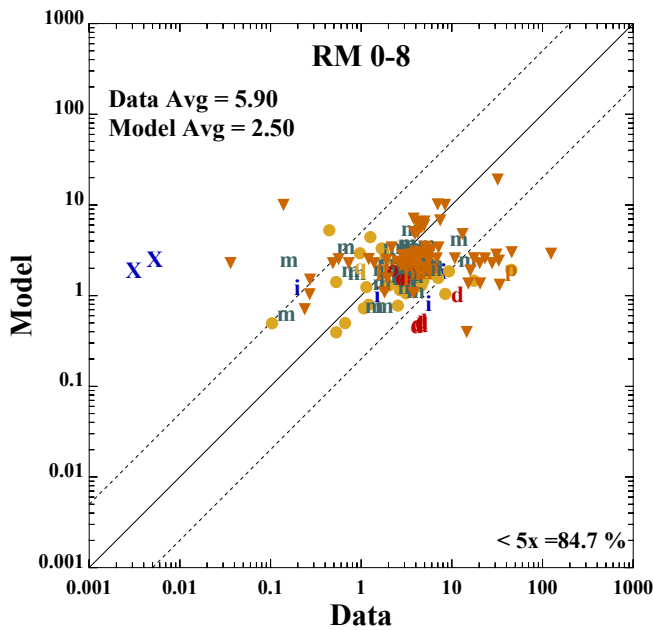
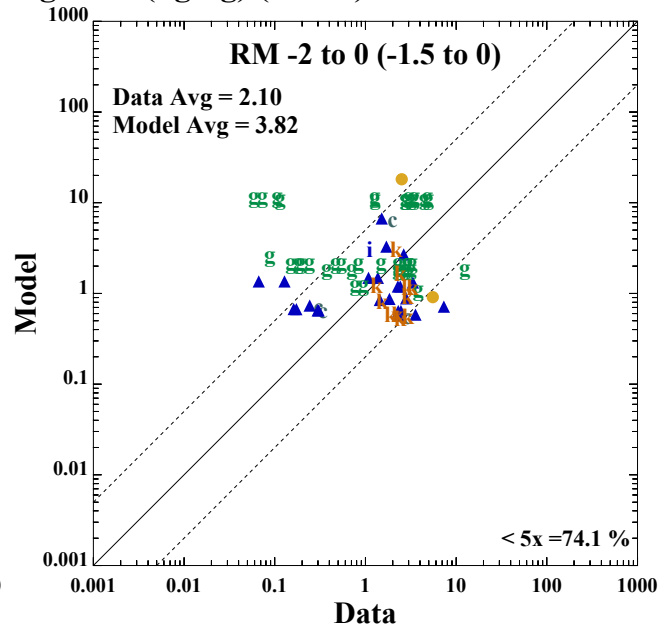
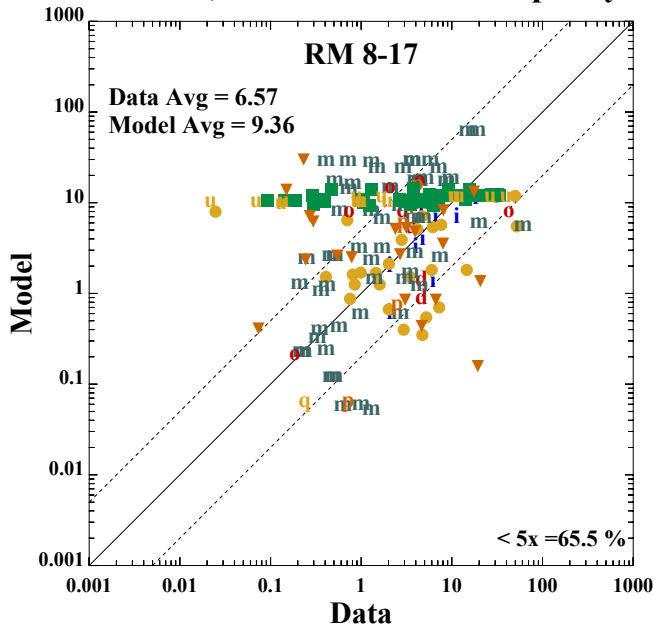
**Top 15cm Average Conc.  
PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)**



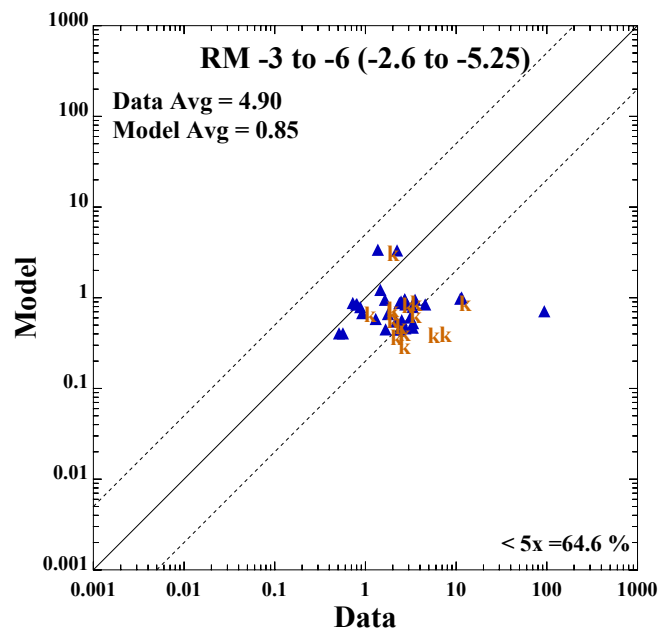
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



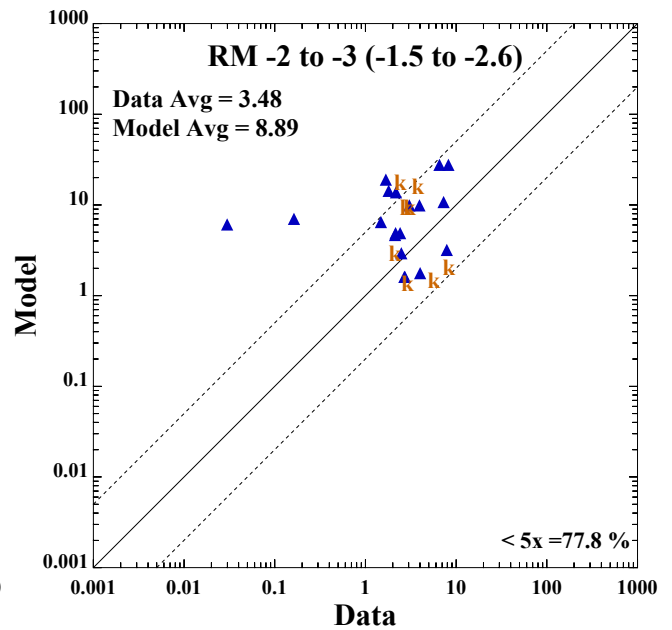
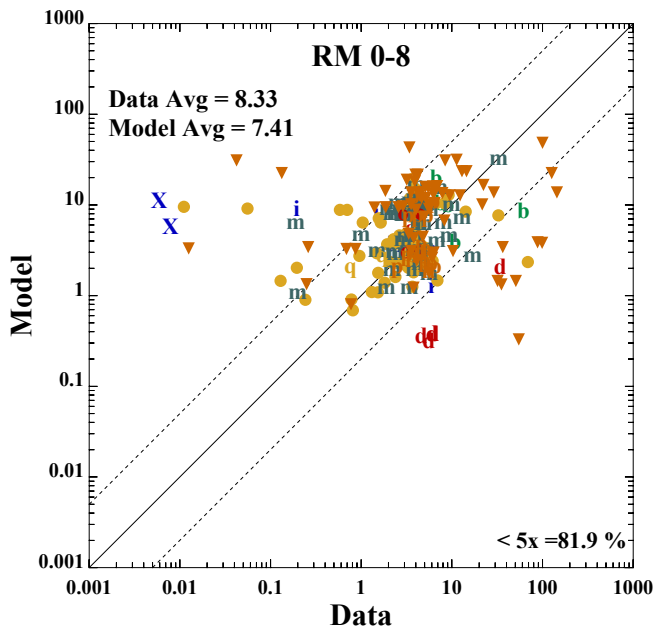
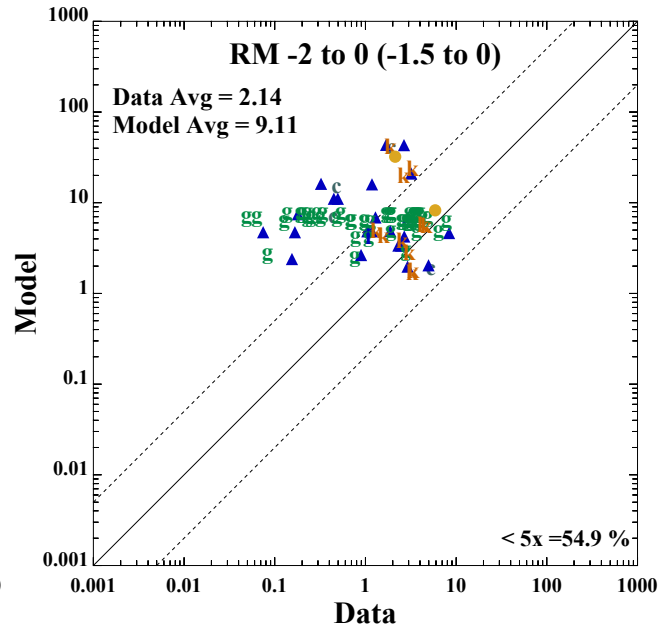
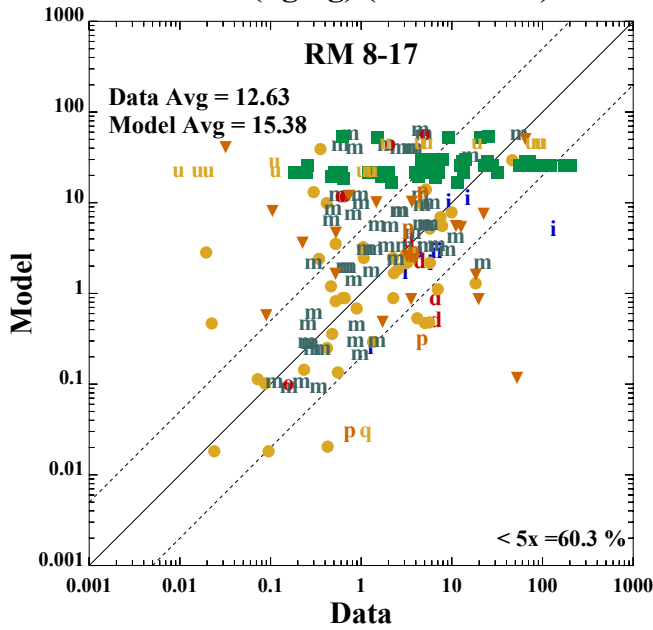
**Top 15cm Average Conc.  
PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)**



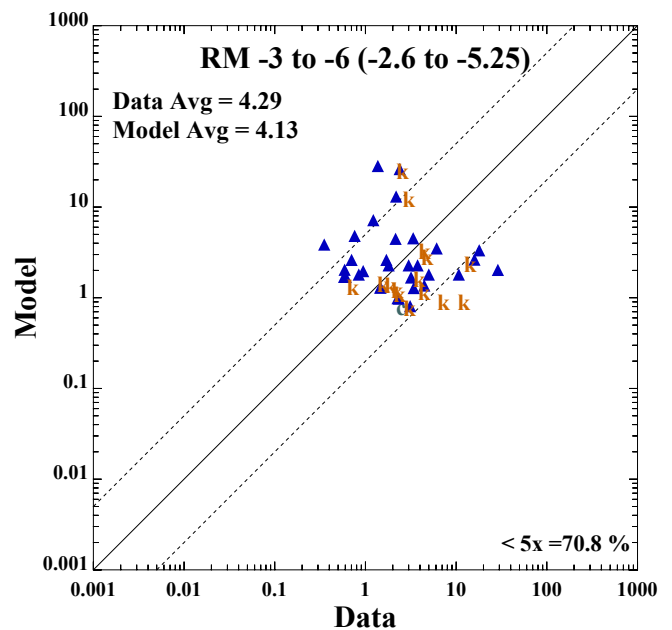
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- e 2006 HRSA RI Sampling Program
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- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



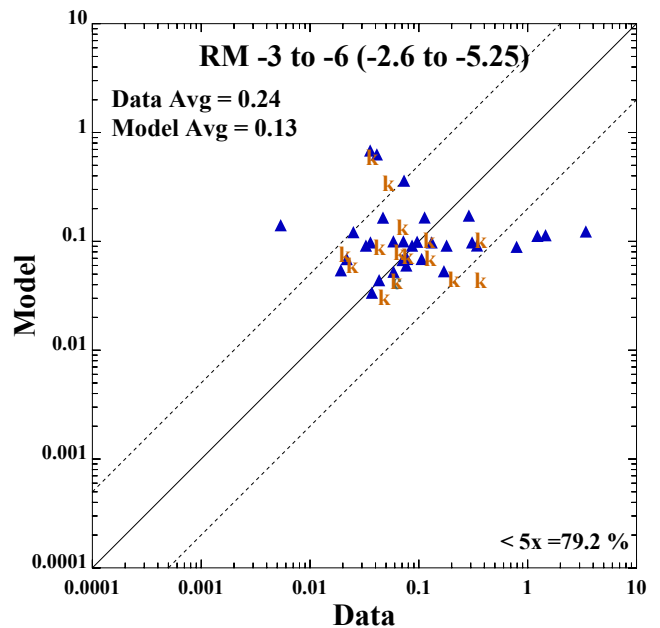
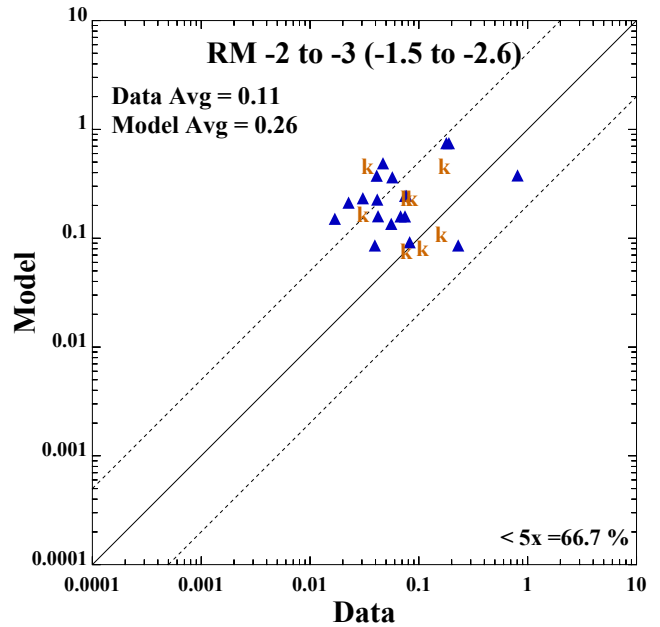
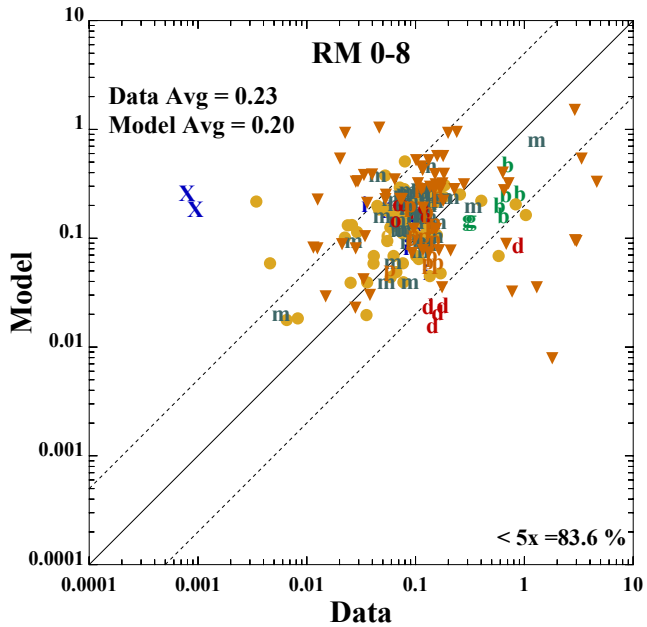
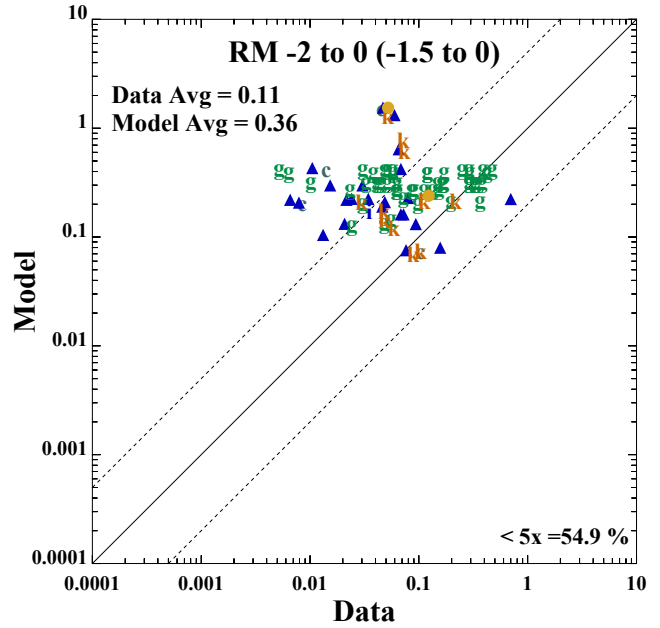
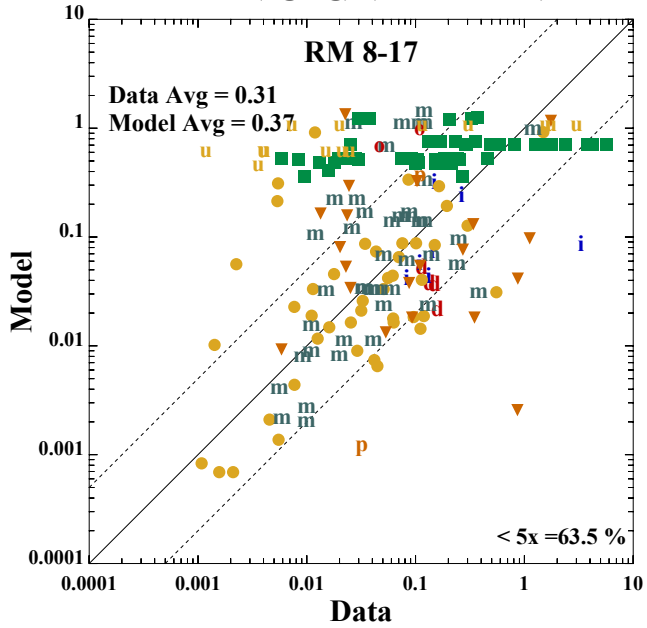
**Top 15cm Average Conc.  
BZ#077 (ug/kg) (PCB-TEF1)**



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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- j 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



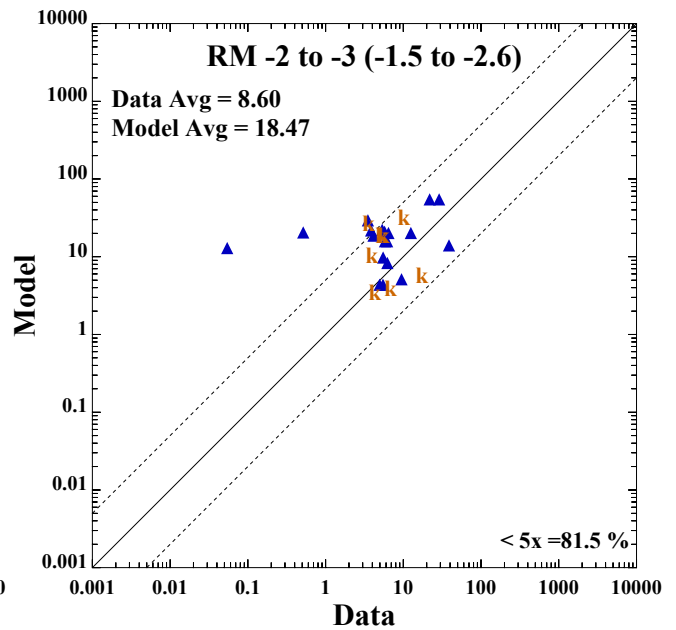
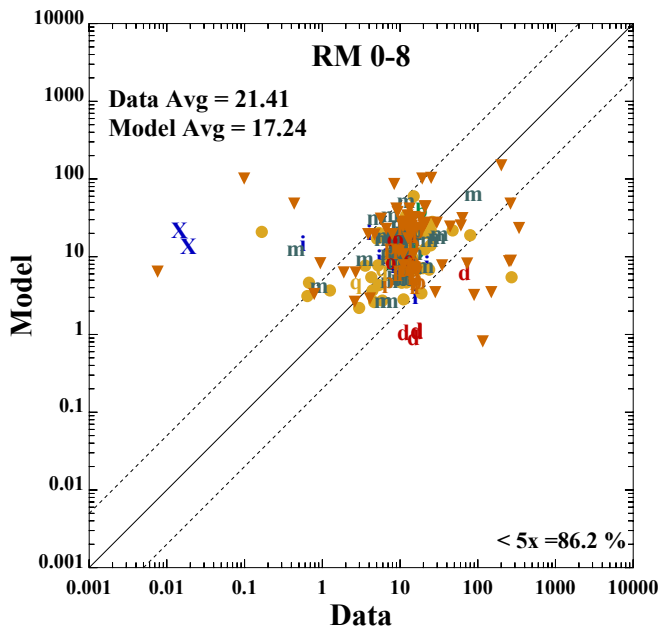
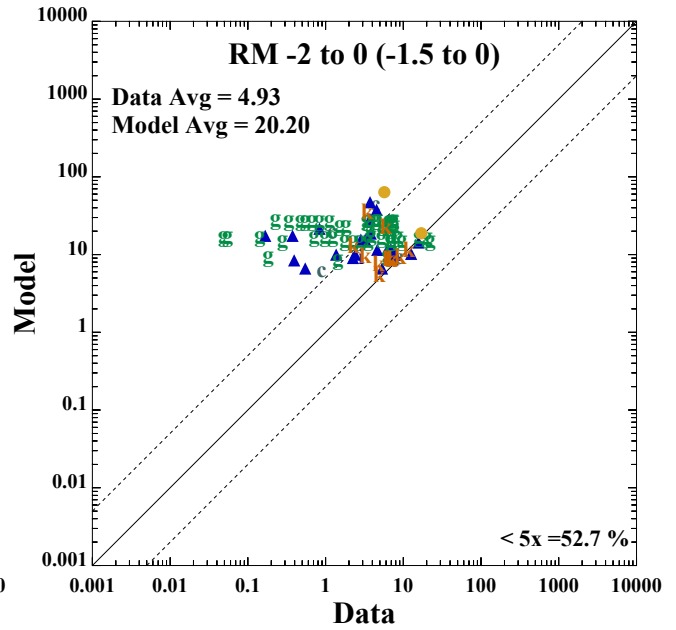
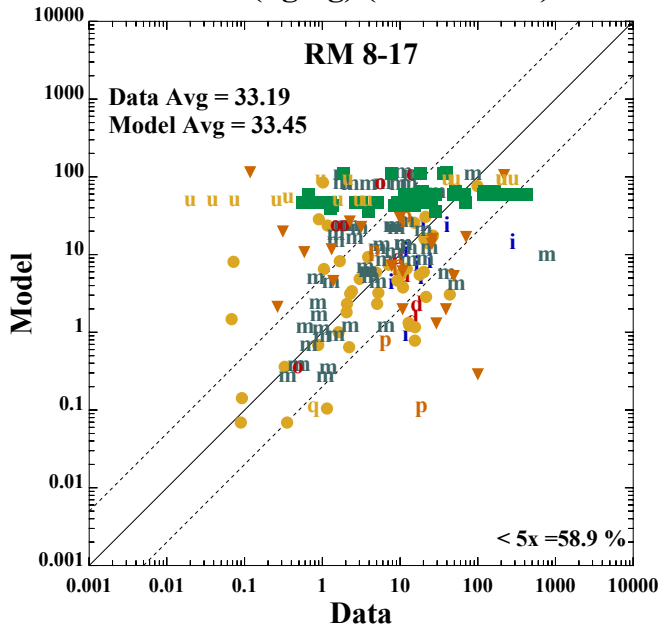
**Top 15cm Average Conc.  
BZ#081 (ug/kg) (PCB-TEF1)**



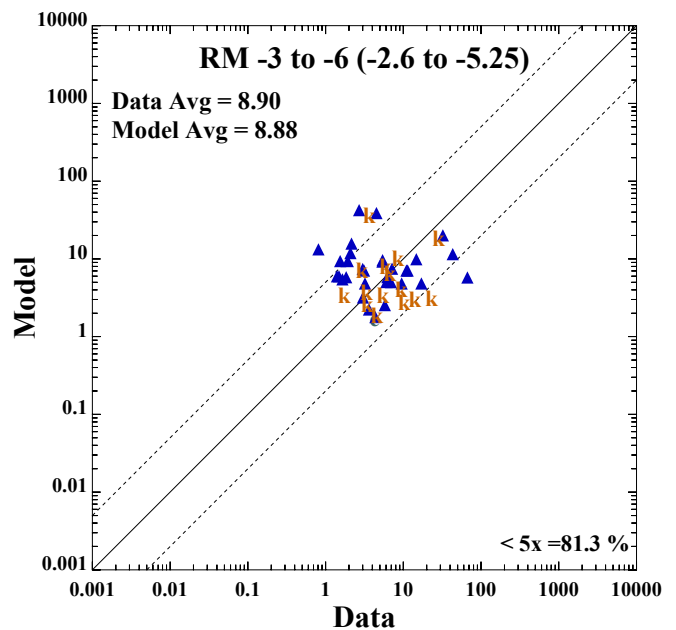
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



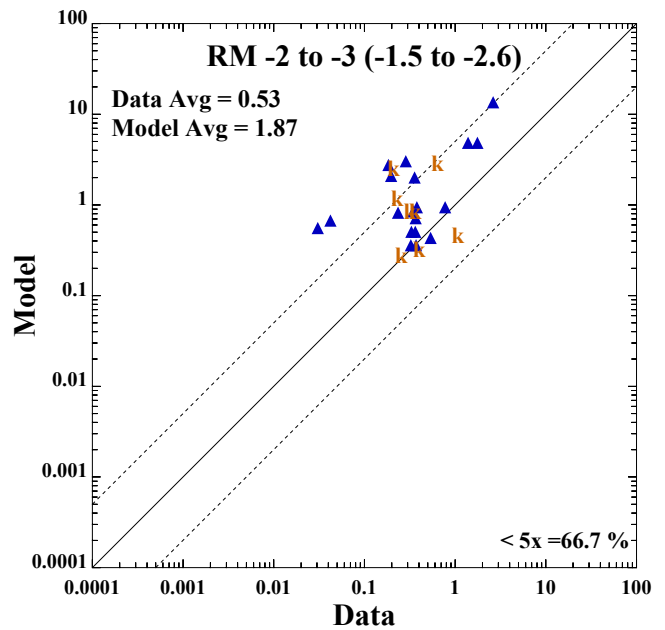
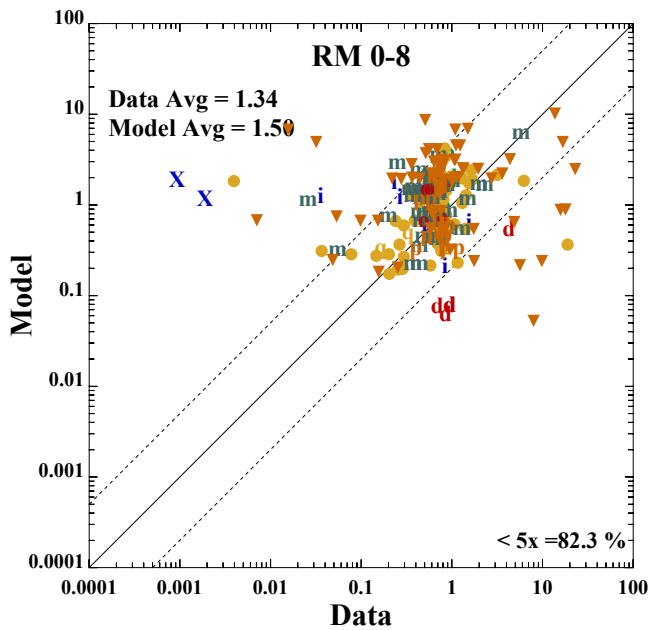
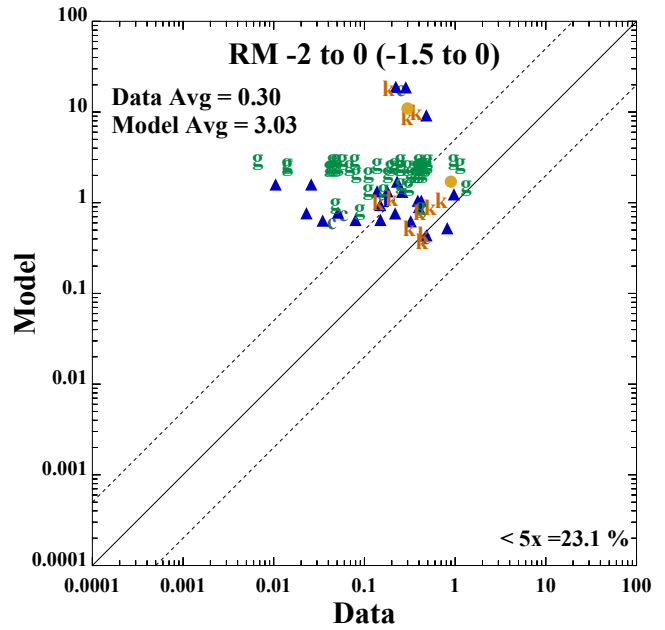
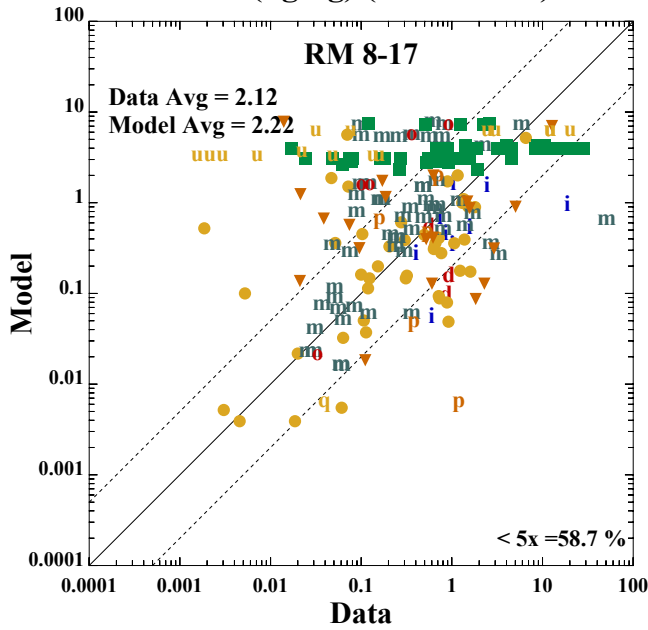
**Top 15cm Average Conc.  
BZ#105 (ug/kg) (PCB-TEF1)**



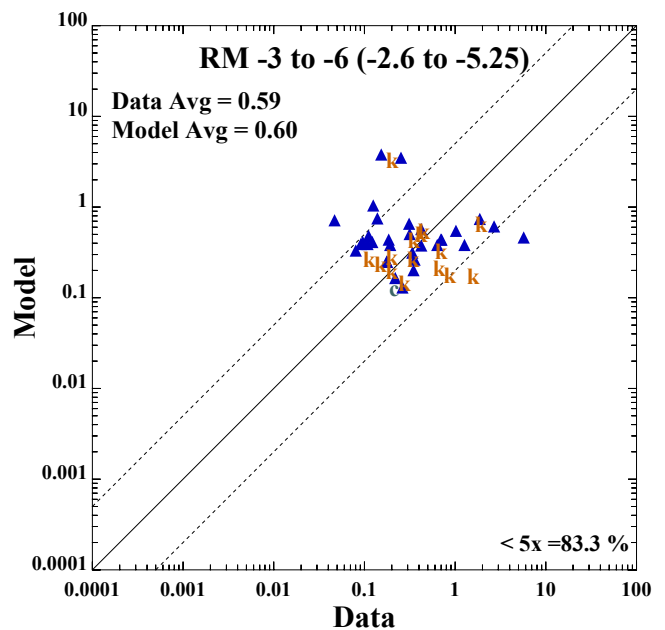
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- r 2012 CDMSmith Background BenthicSediment
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- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



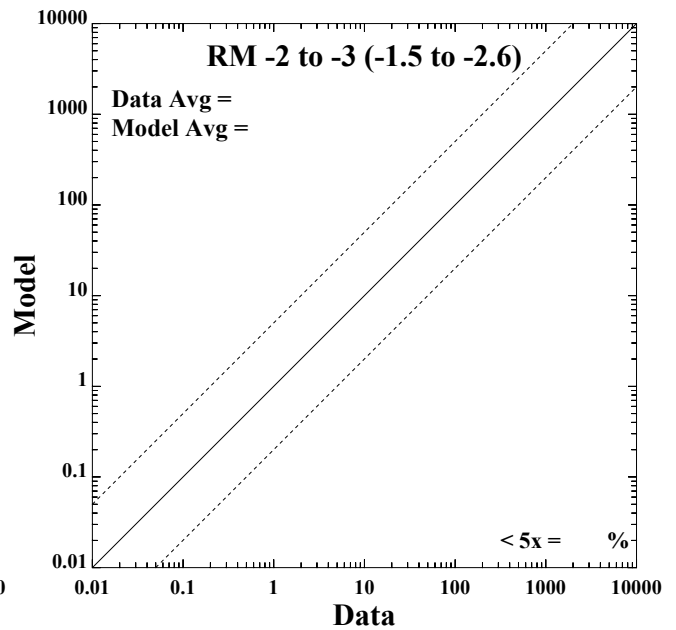
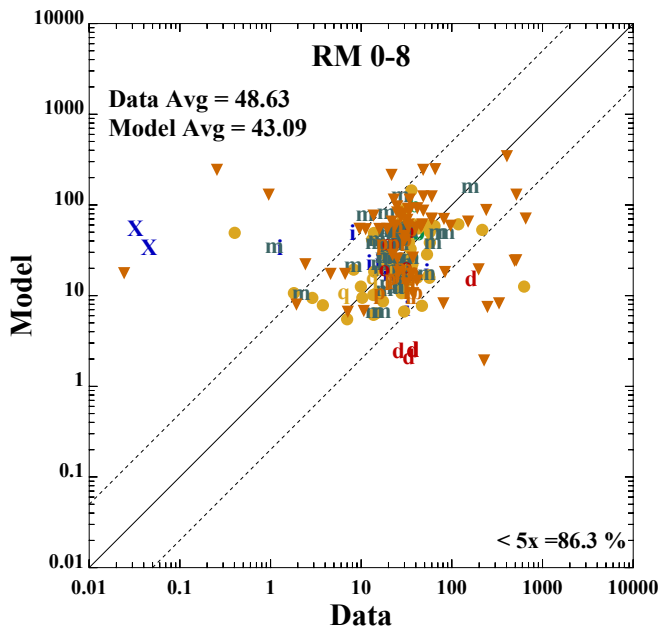
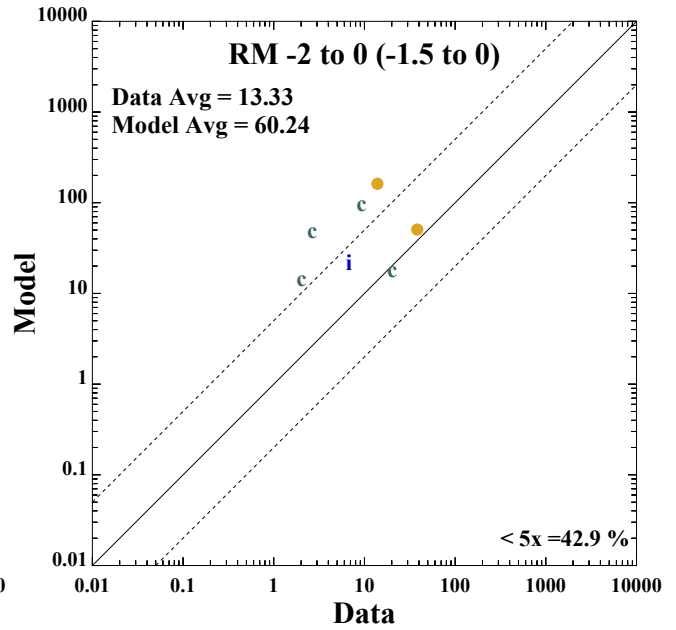
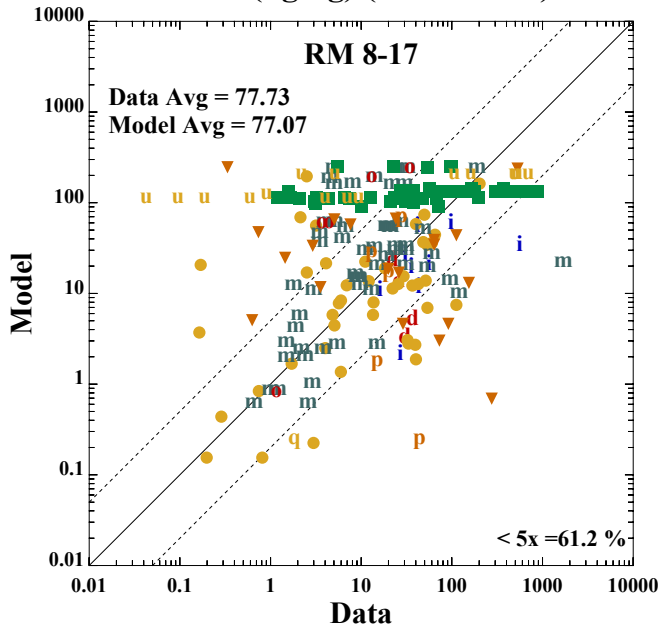
**Top 15cm Average Conc.  
BZ#114 (ug/kg) (PCB-TEF1)**



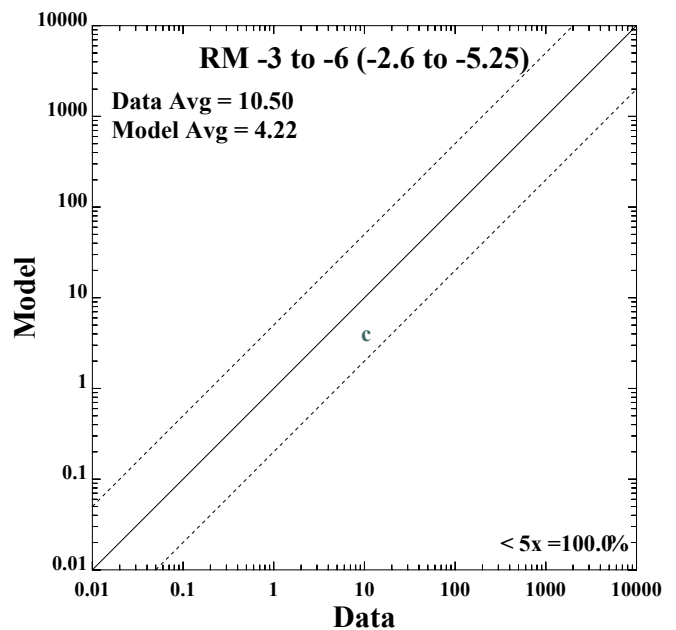
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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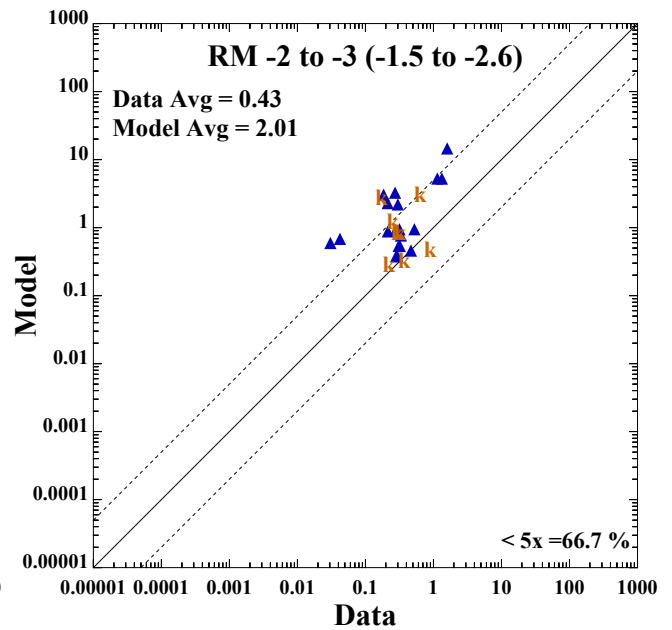
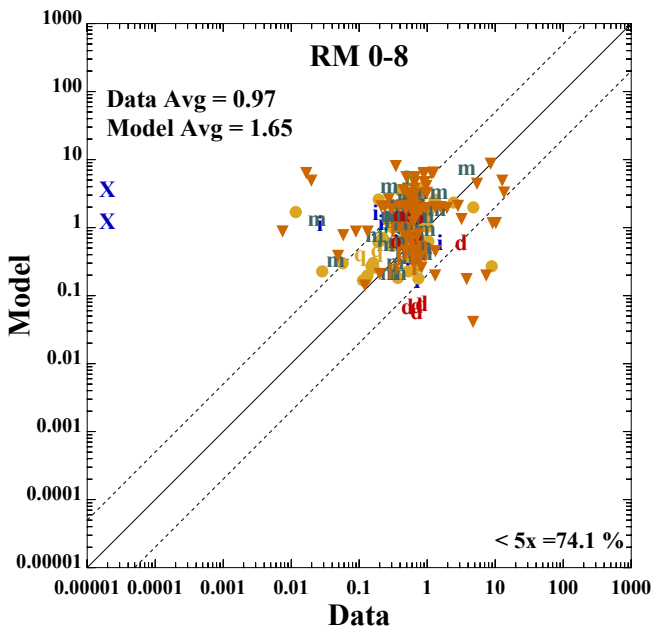
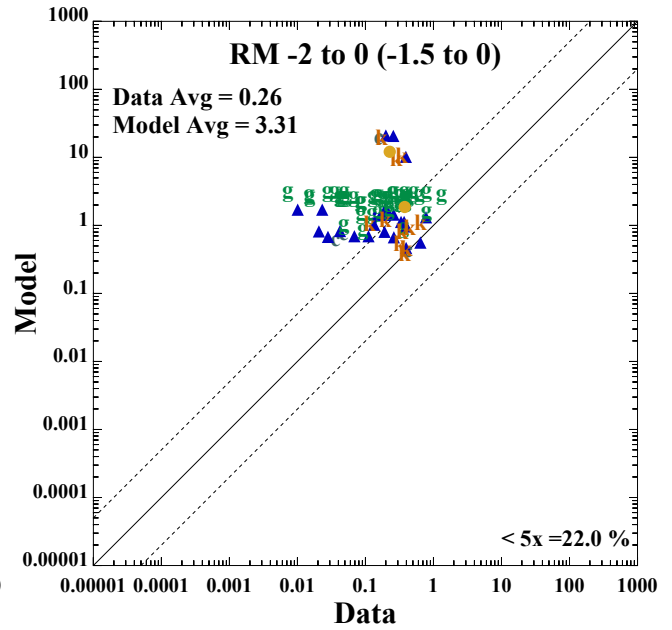
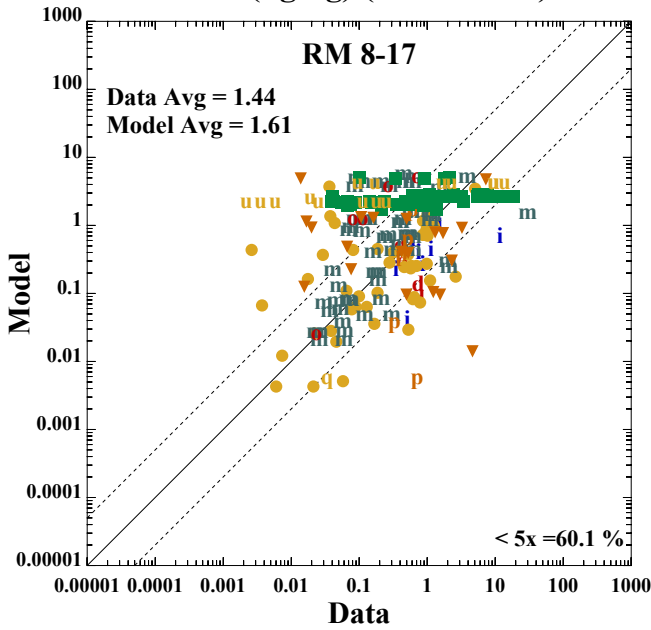
**Top 15cm Average Conc.  
BZ#118 (ug/kg) (PCB-TEF1)**



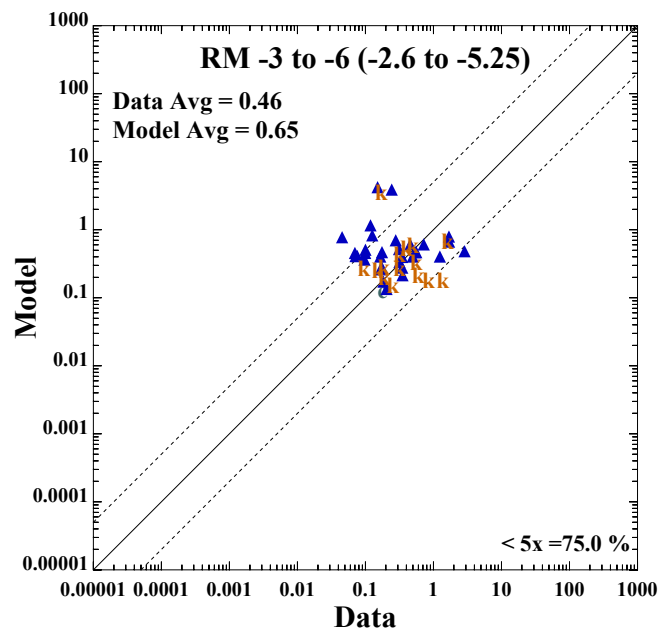
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



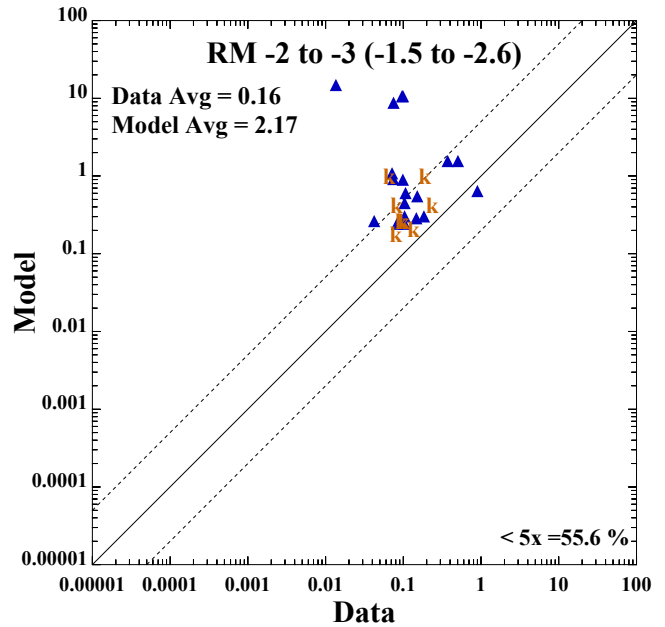
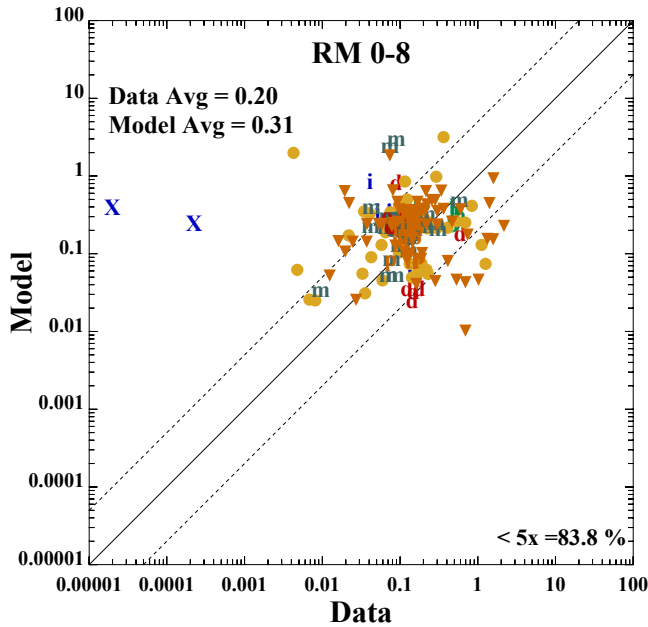
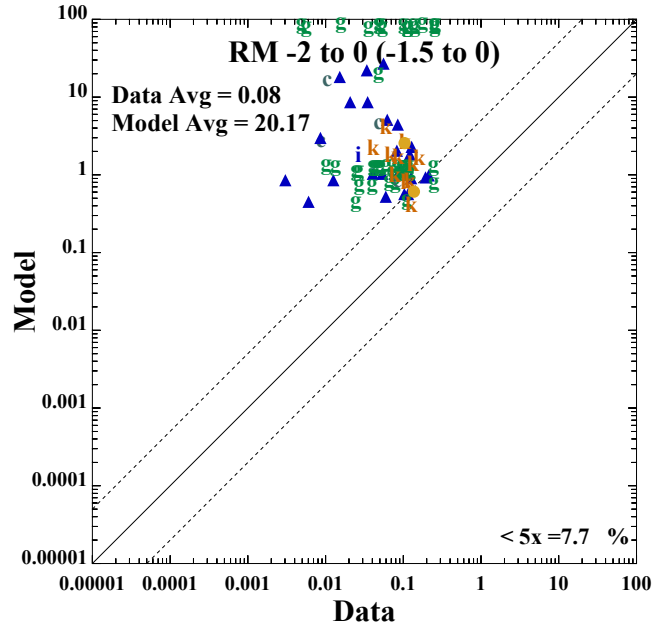
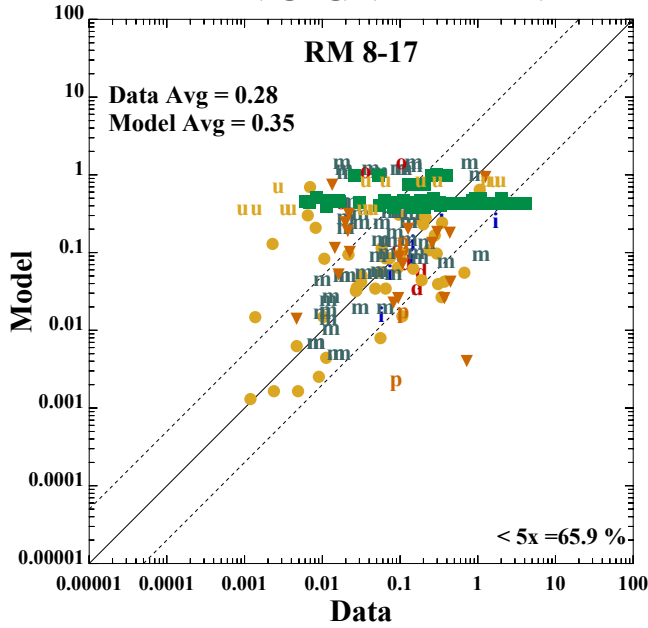
**Top 15cm Average Conc.  
BZ#123 (ug/kg) (PCB-TEF1)**



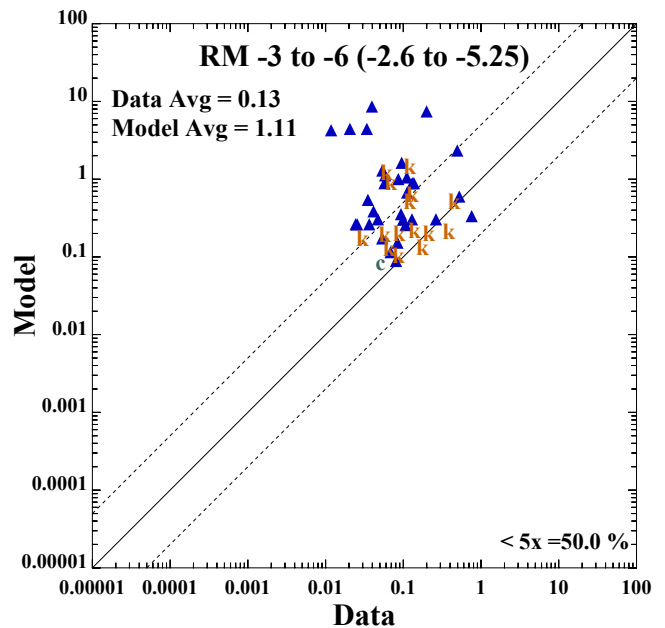
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- U 1999 Late Summer/Early Fall ESP Sampling Program
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- Y 1999/2000 Minish Park Monitoring Program
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- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



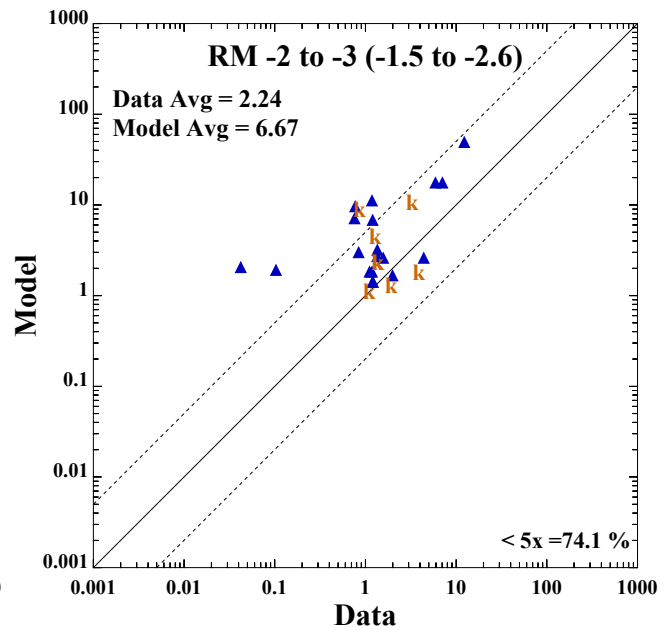
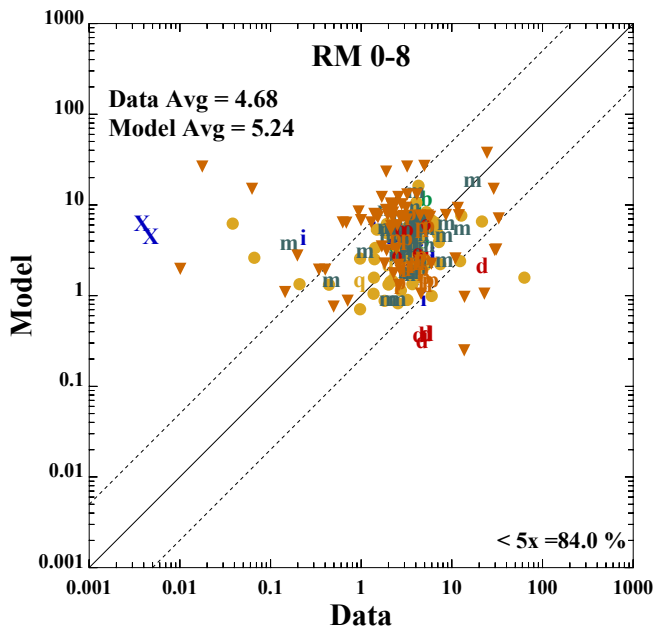
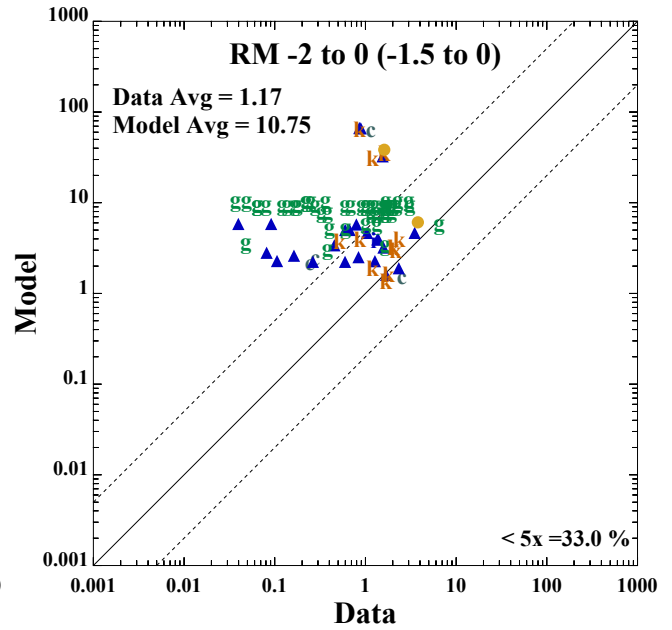
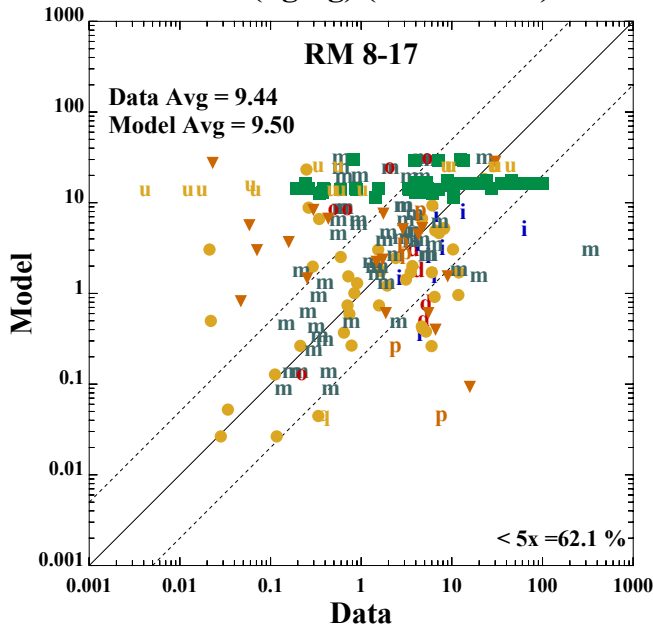
**Top 15cm Average Conc.  
BZ#126 (ug/kg) (PCB-TEF2)**



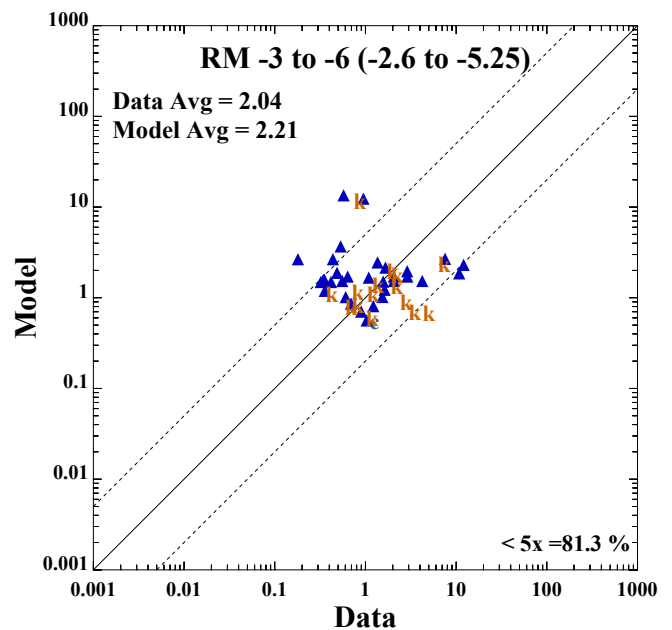
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



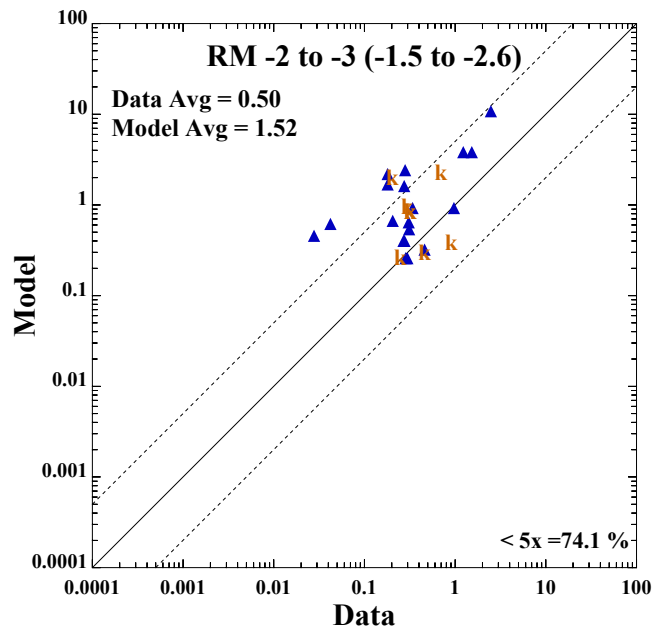
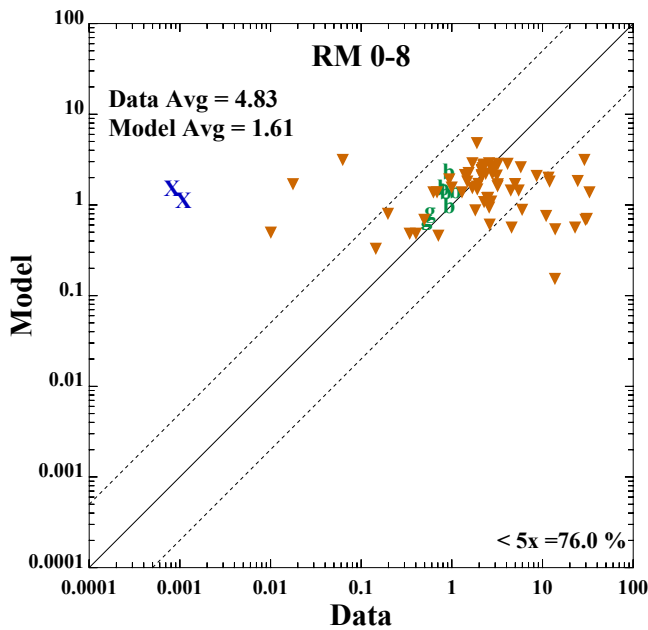
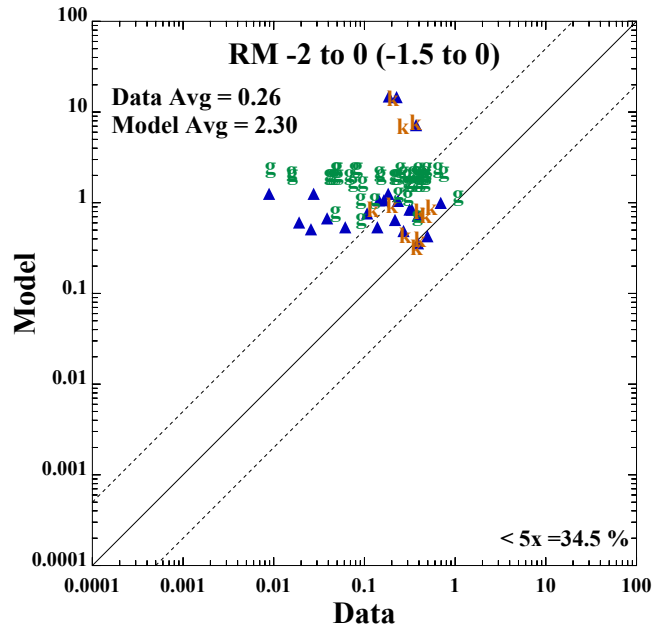
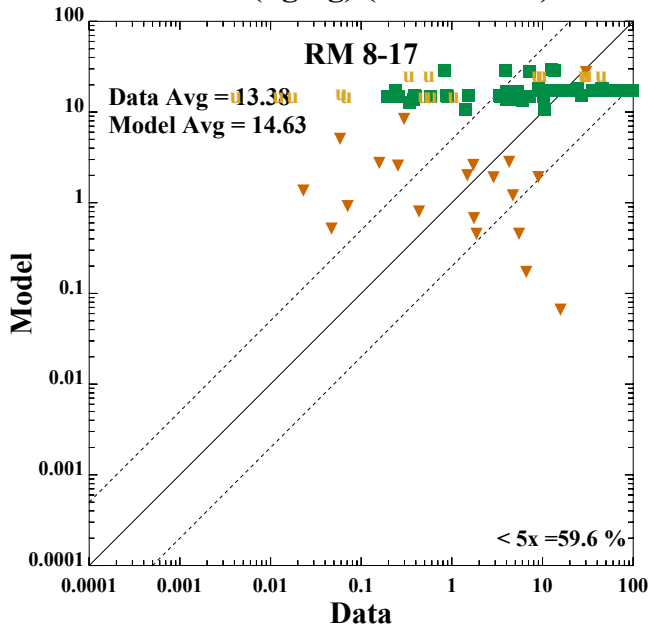
**Top 15cm Average Conc.  
BZ#156 (ug/kg) (PCB-TEF2)**



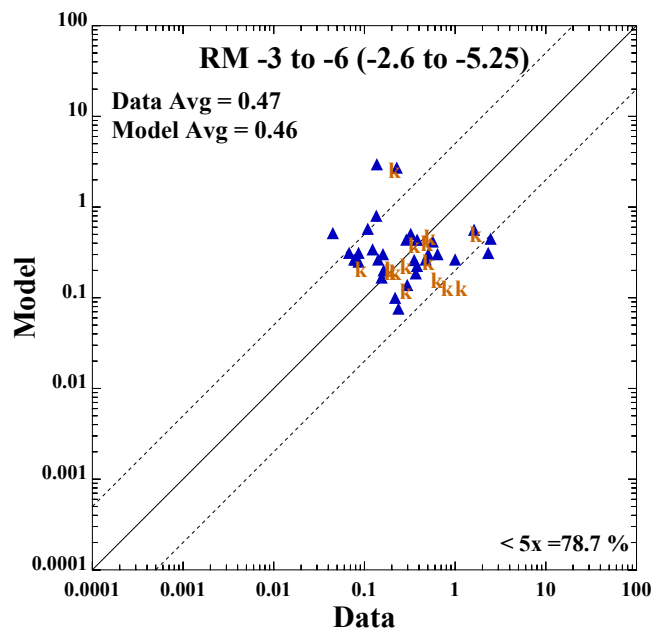
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



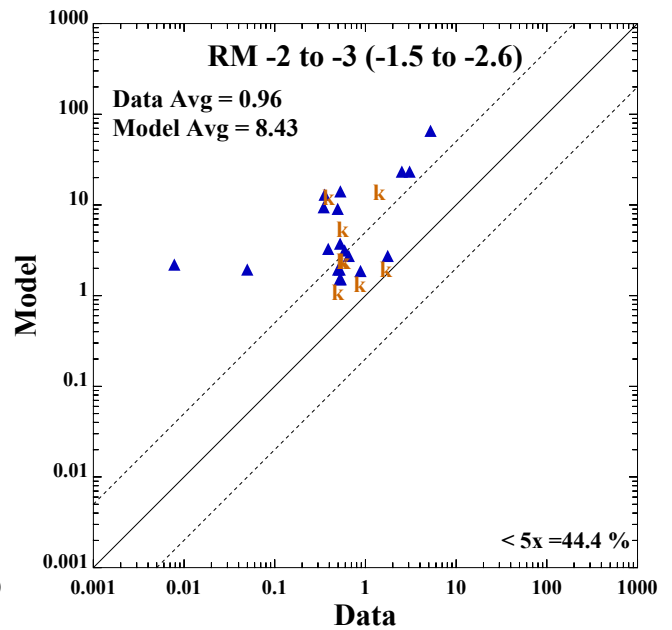
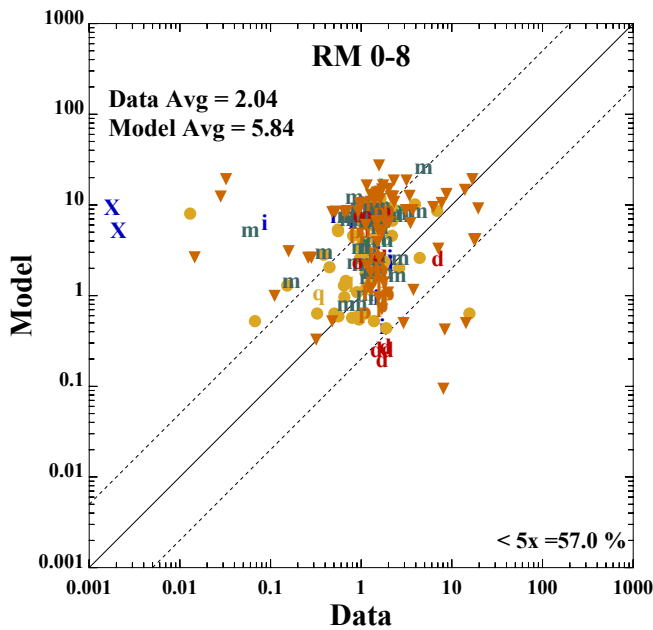
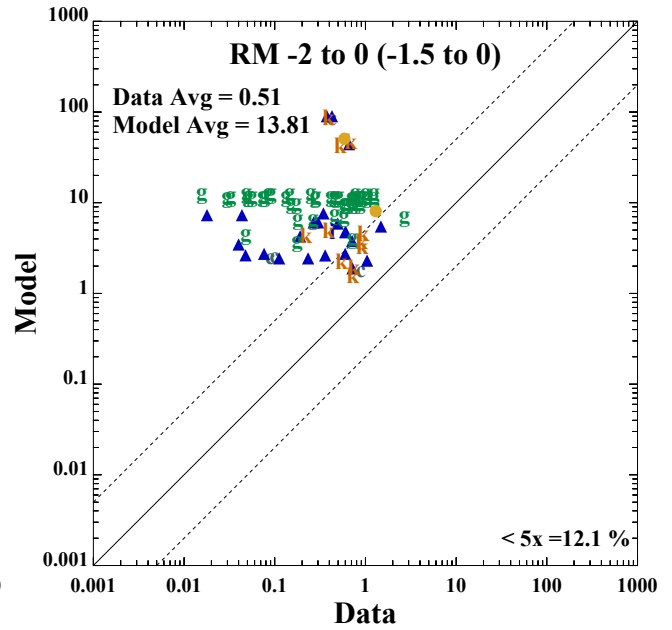
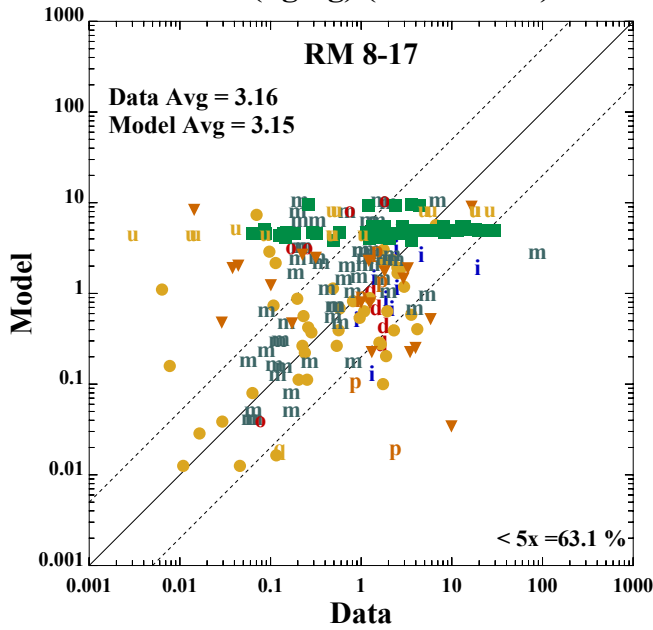
**Top 15cm Average Conc.  
BZ#157 (ug/kg) (PCB-TEF2)**



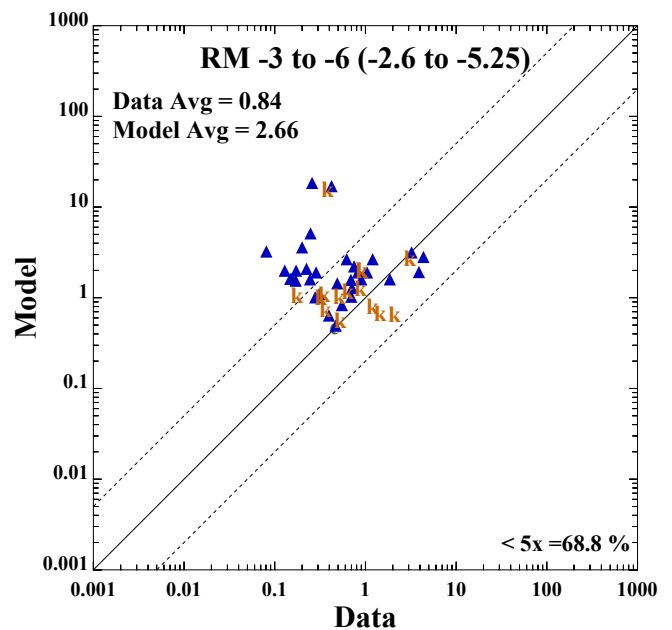
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



**Top 15cm Average Conc.  
BZ#167 (ug/kg) (PCB-TEF2)**

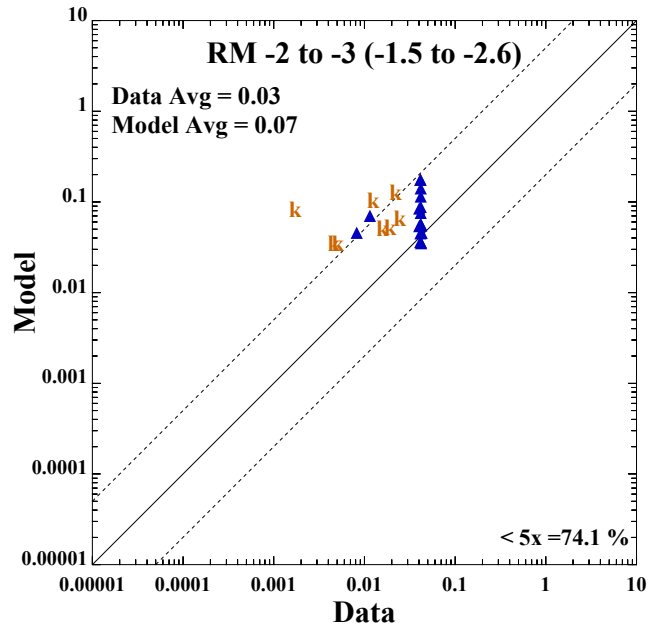
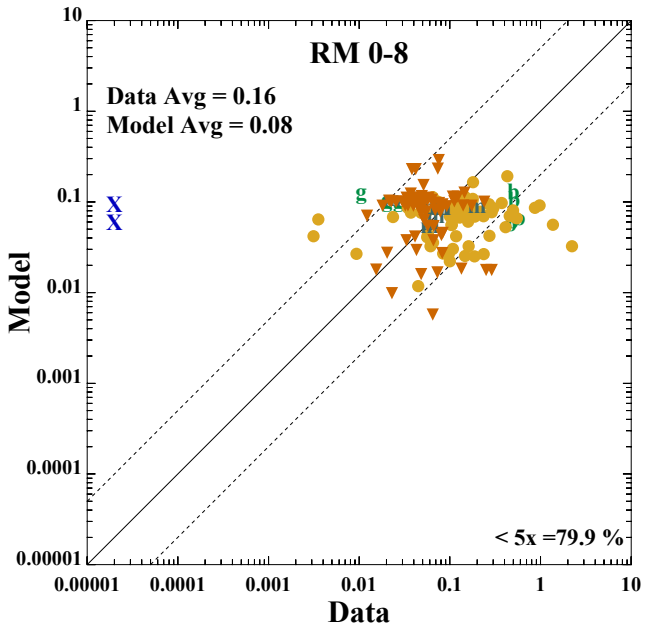
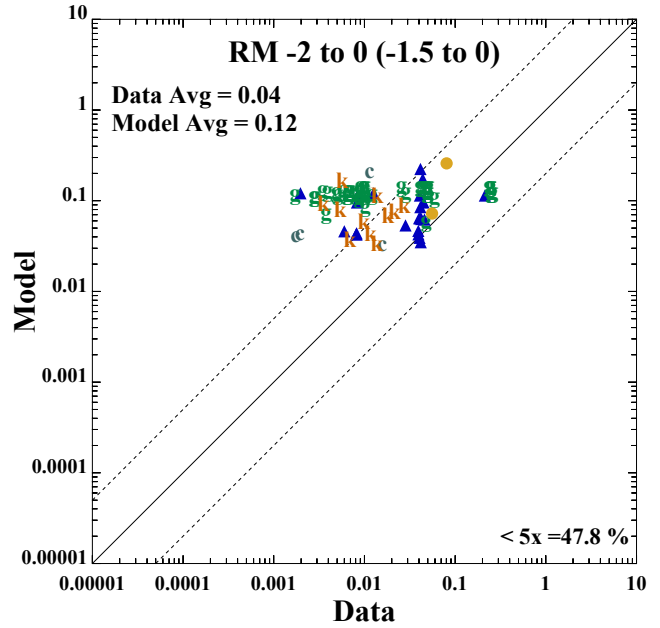
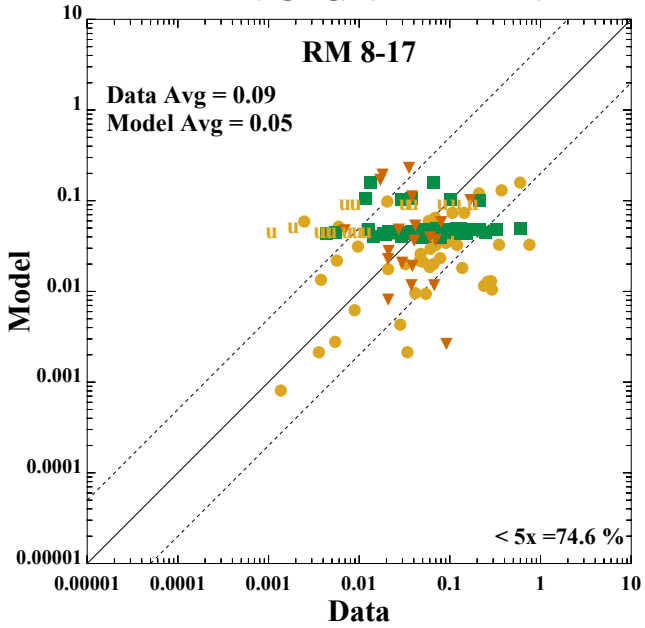


- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
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- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

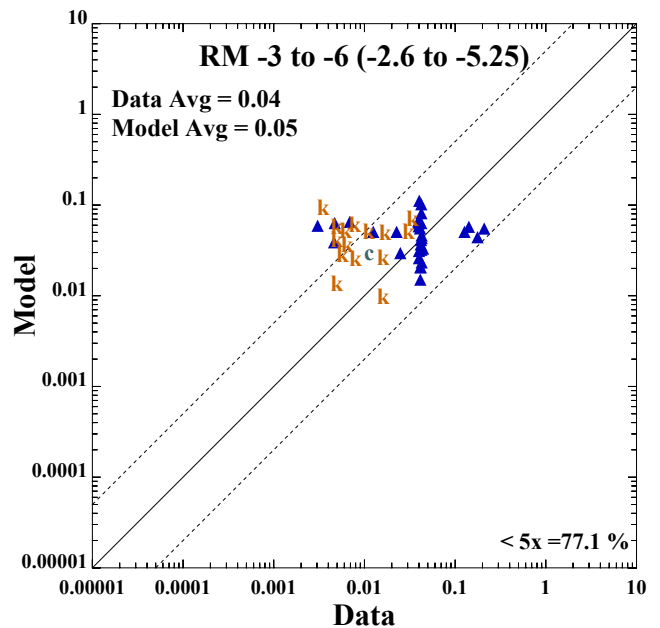




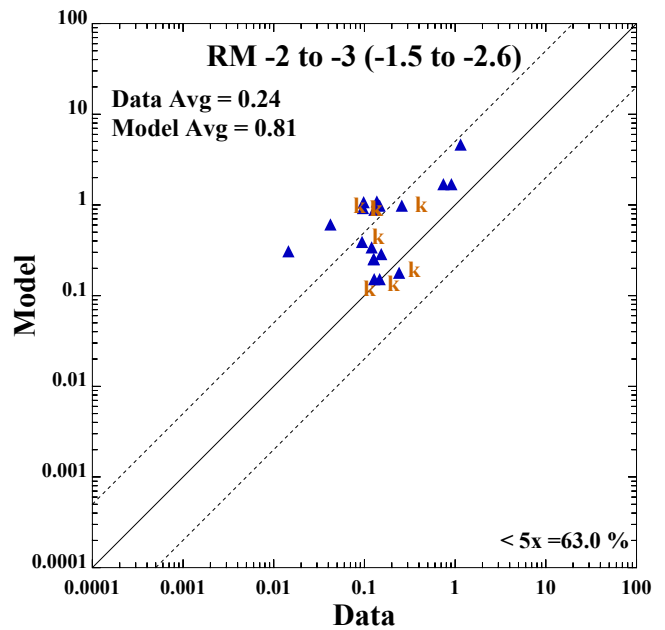
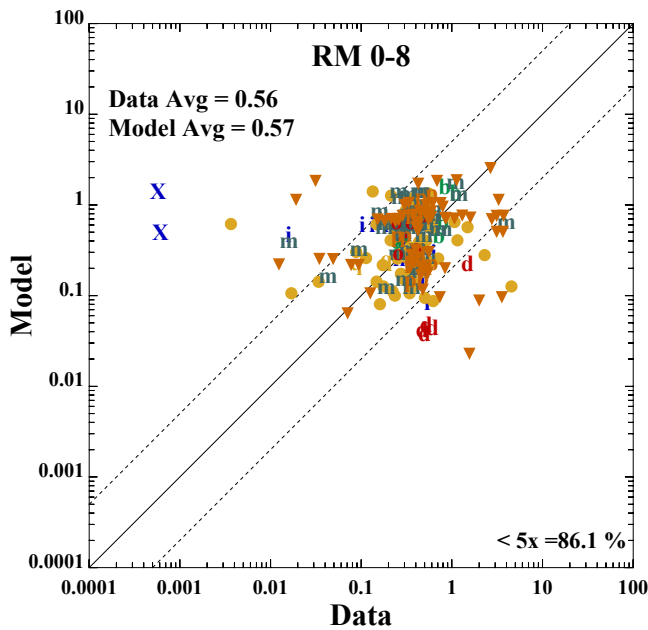
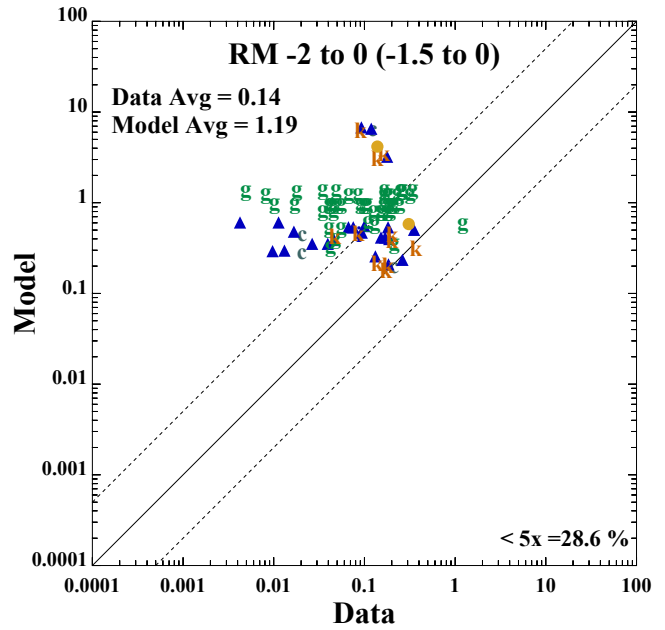
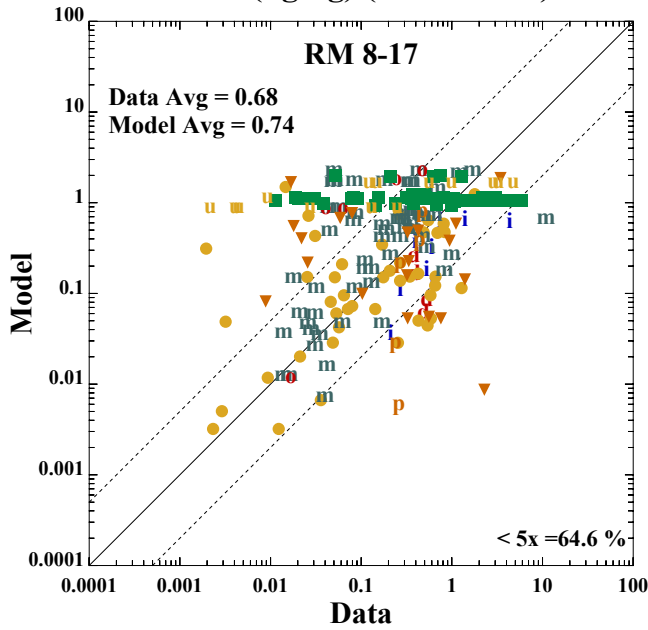
**Top 15cm Average Conc.  
BZ#169 (ug/kg) (PCB-TEF2)**



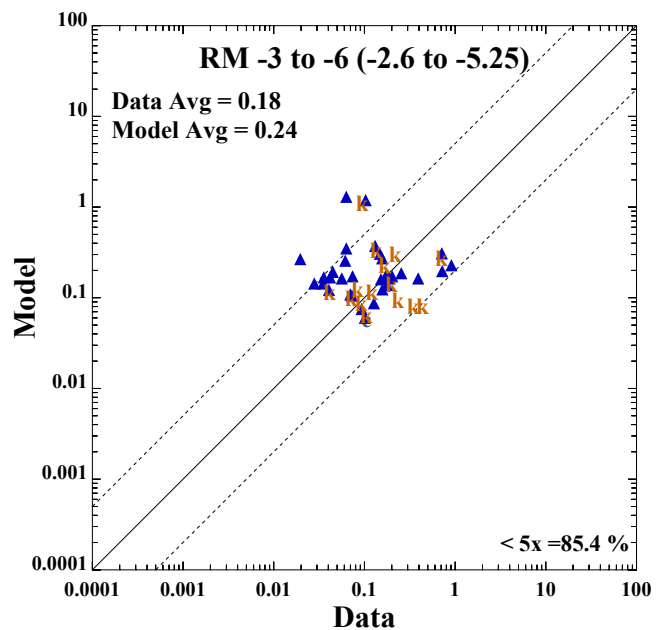
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



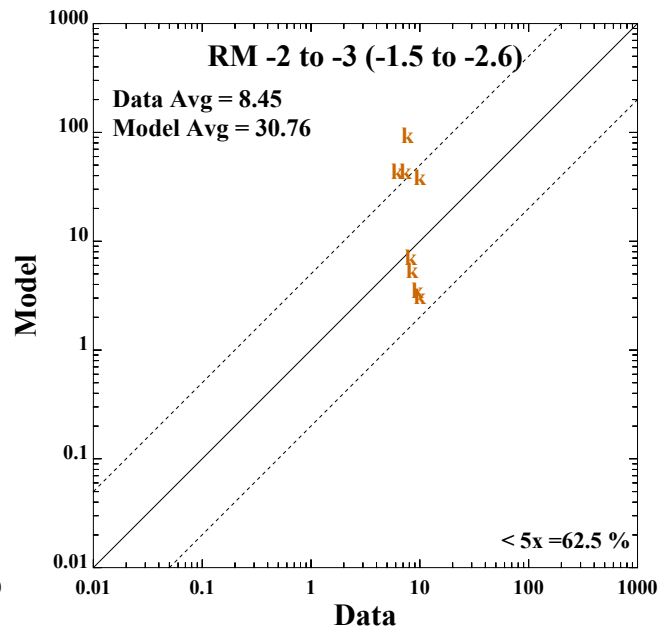
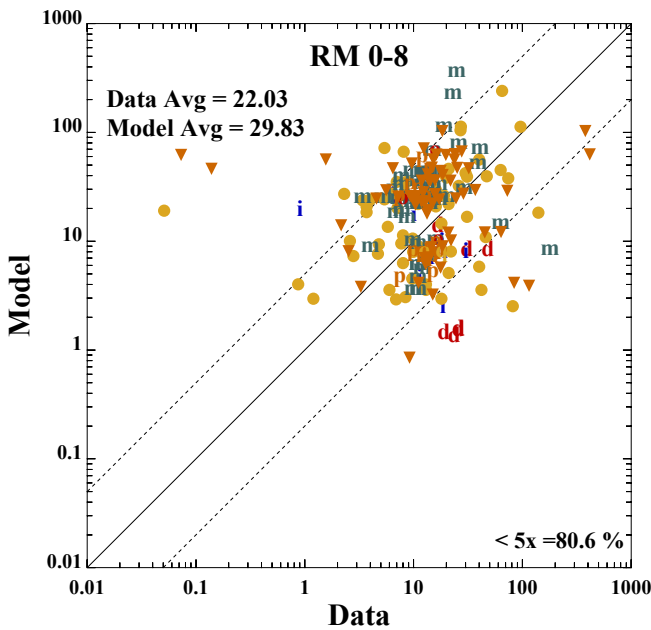
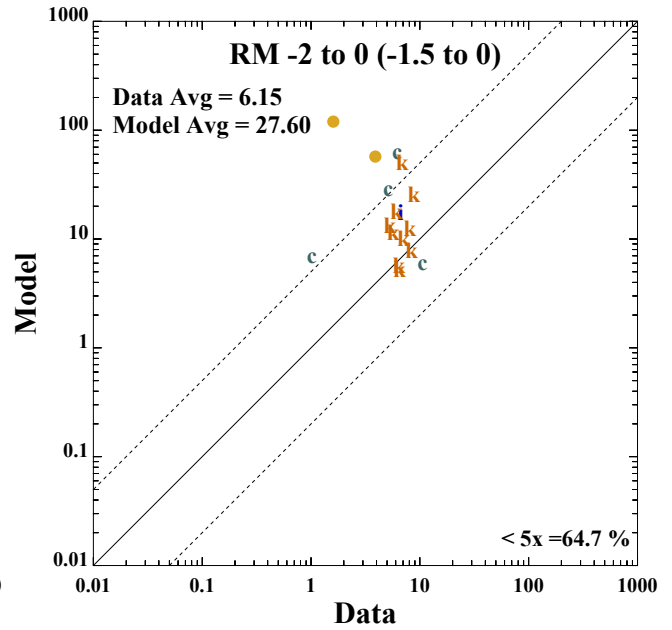
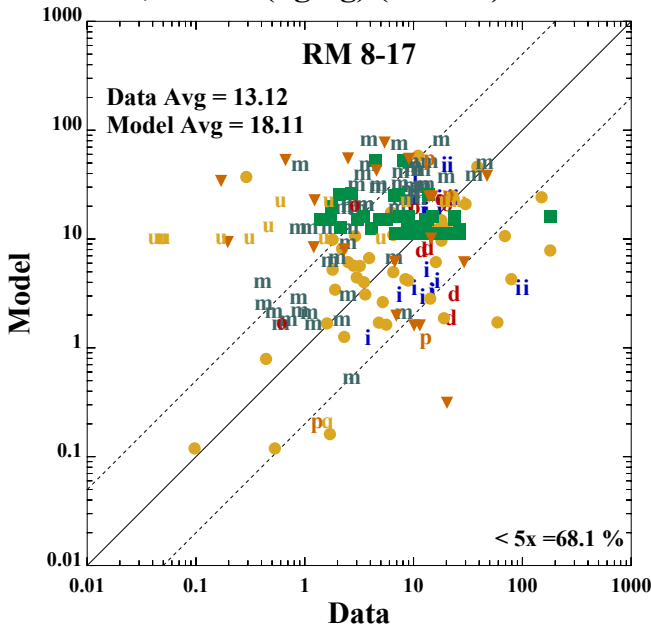
**Top 15cm Average Conc.  
BZ#189 (ug/kg) (PCB-TEF2)**



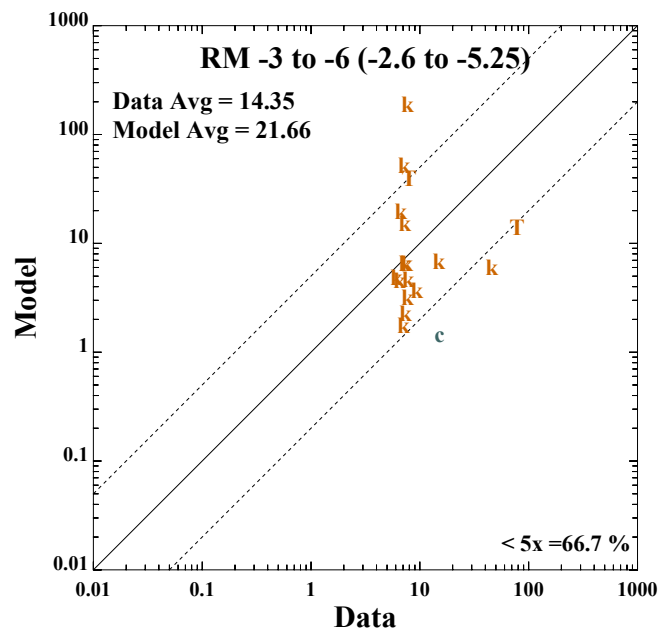
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



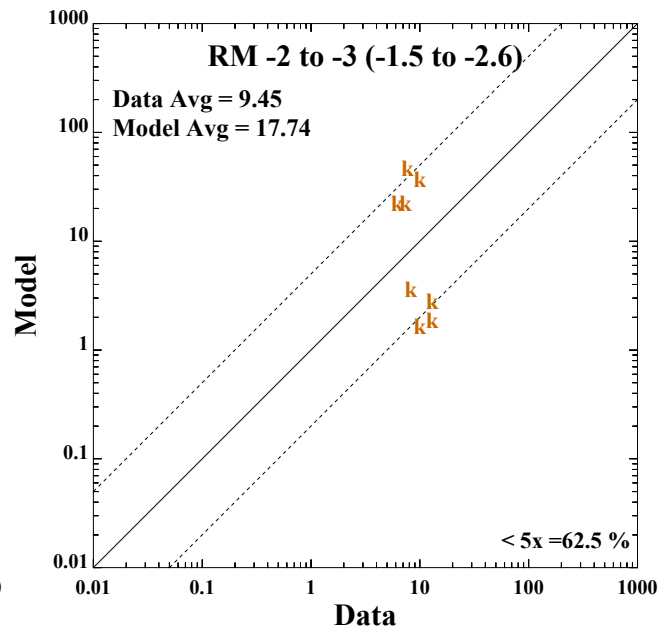
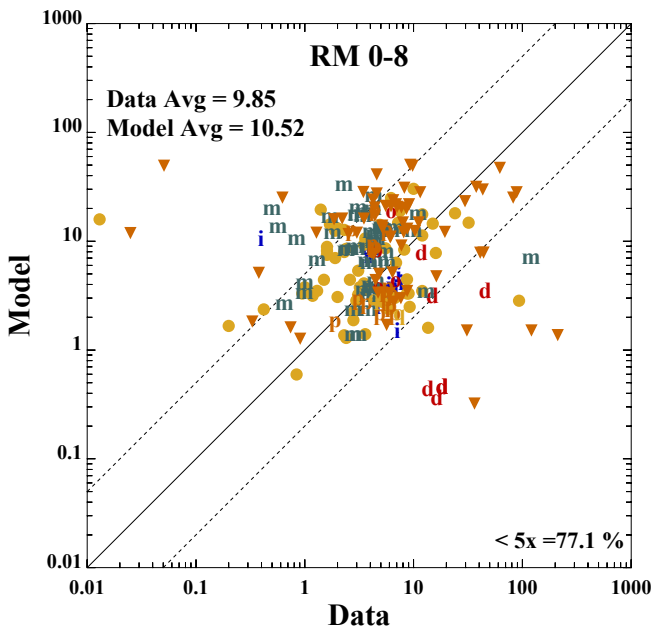
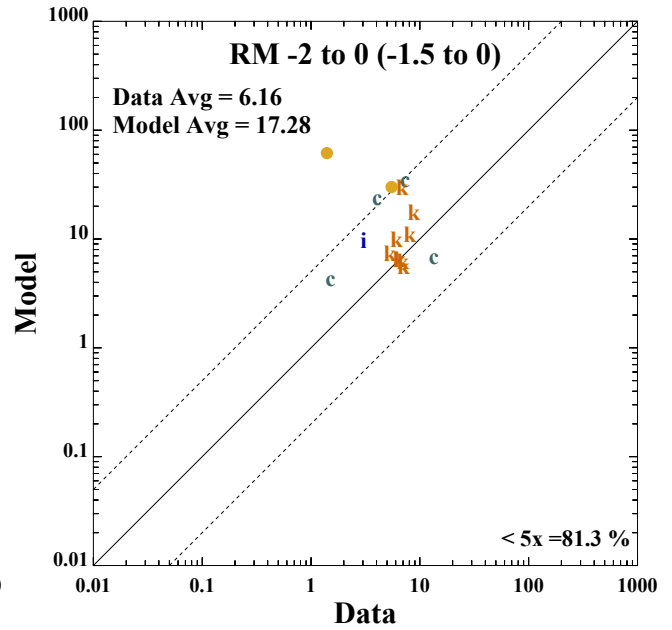
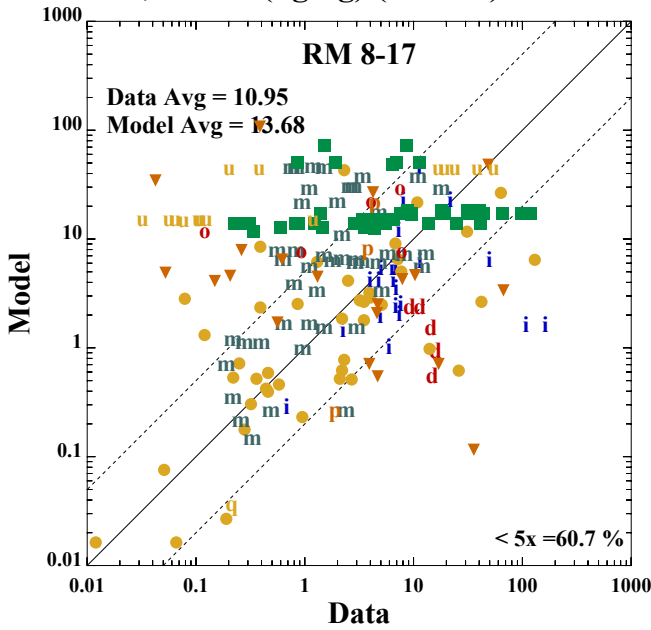
**Top 15cm Average Conc.  
2,4-DDD (ug/kg) (PEST1)**



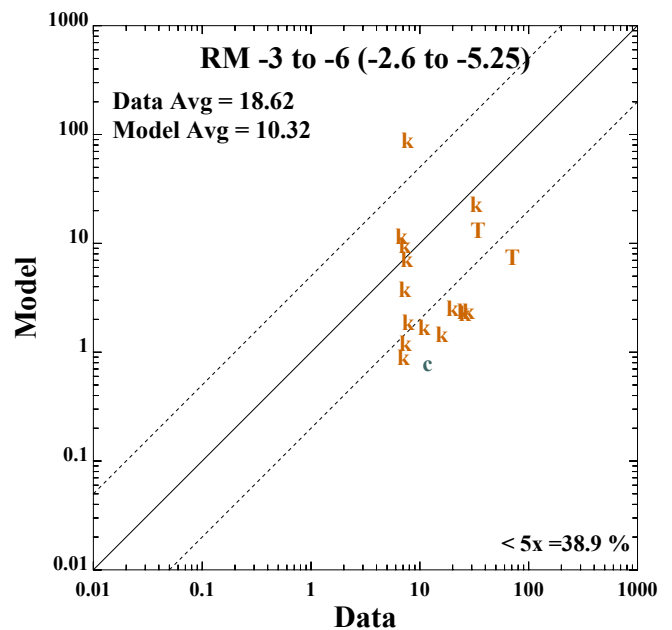
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- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data



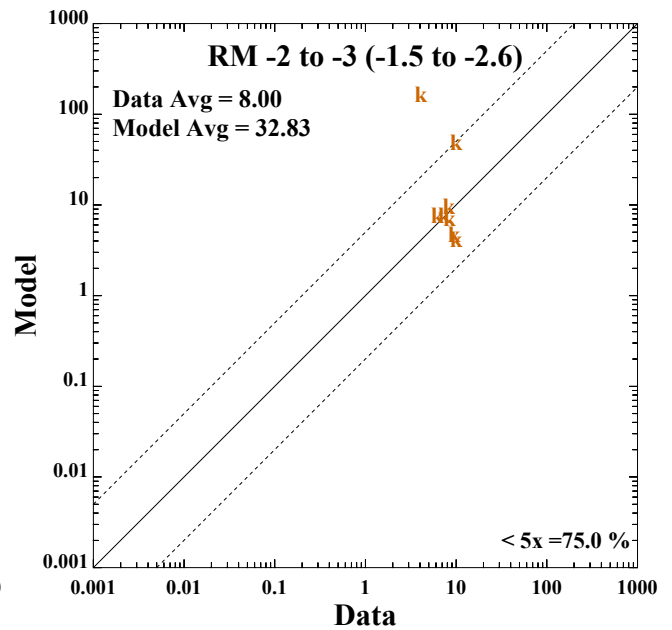
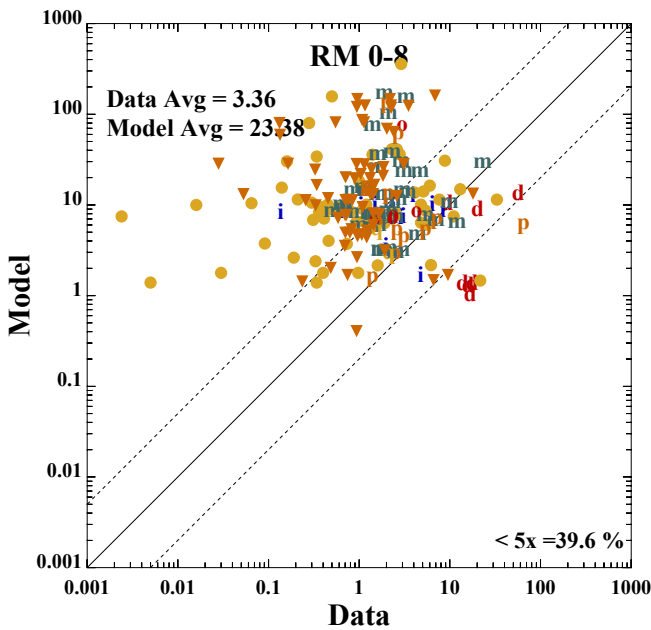
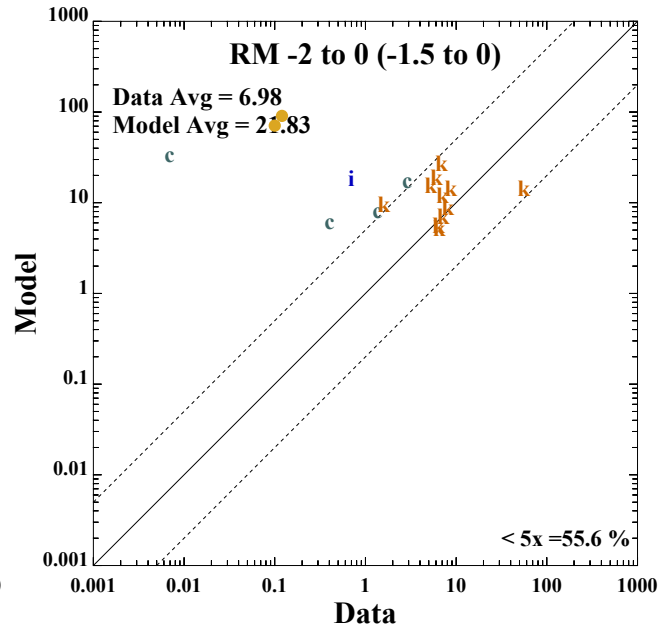
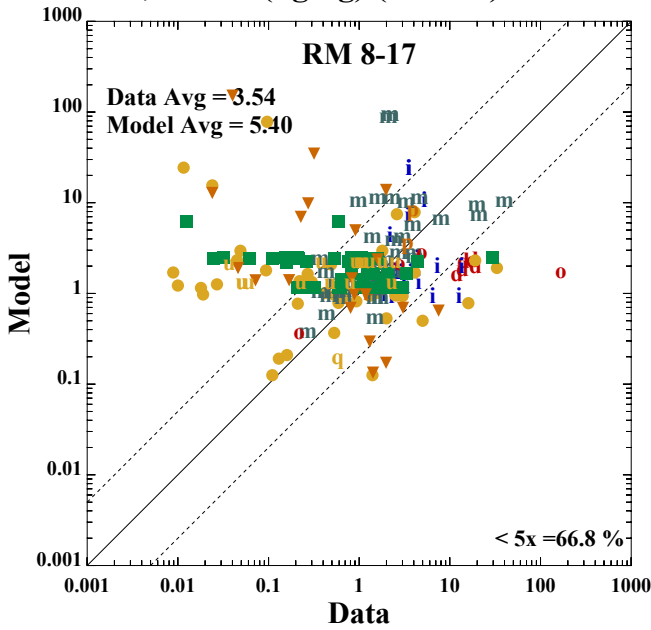
**Top 15cm Average Conc.  
2,4-DDE (ug/kg) (PEST1)**



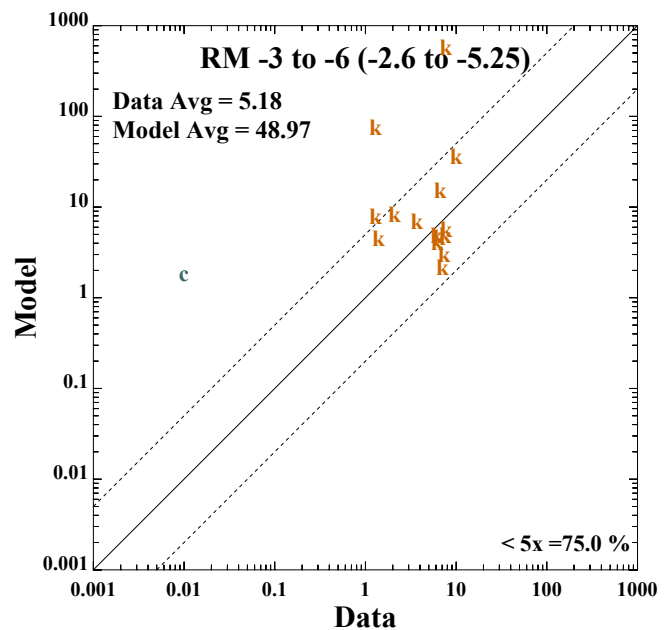
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- t 2012 CPG Background Benthic Sediment
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- u 2012 CPG River Mile 10.9 Data



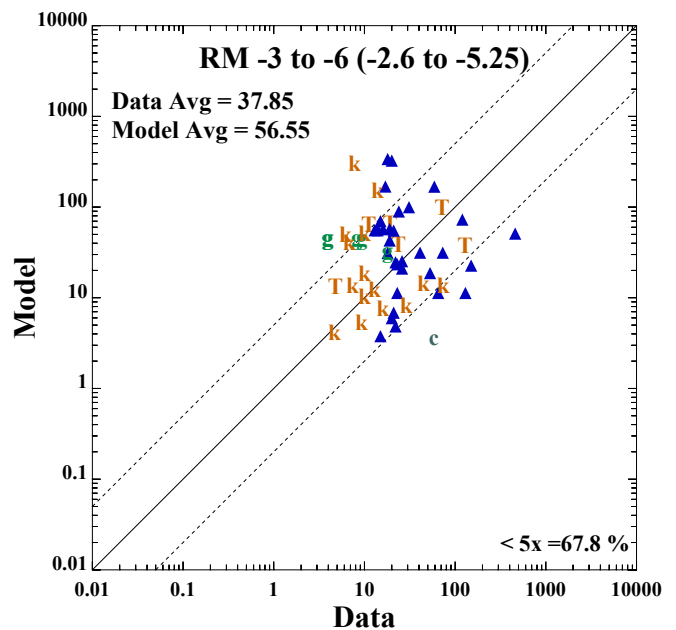
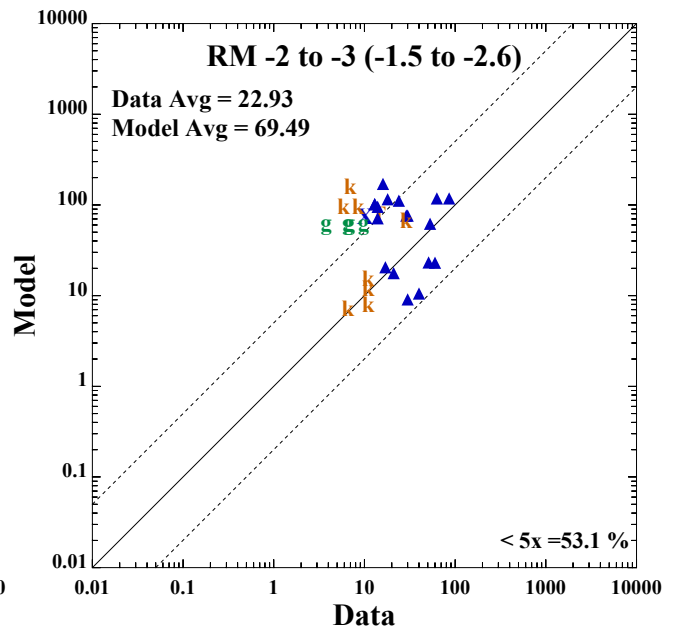
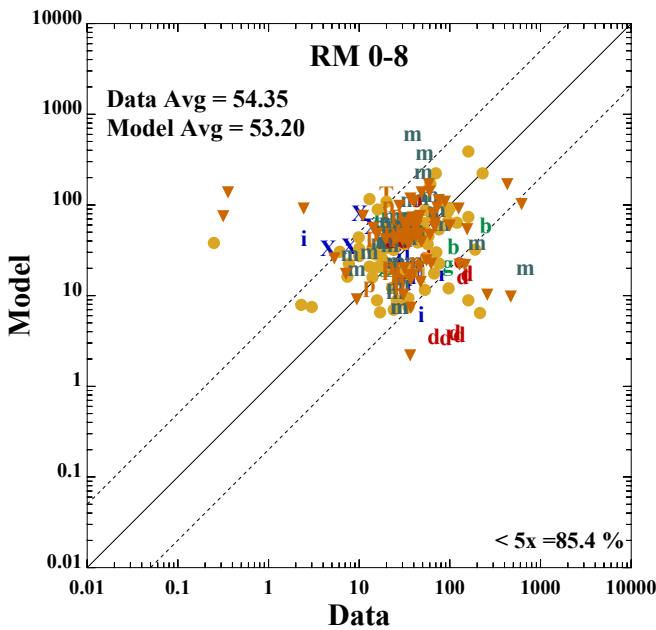
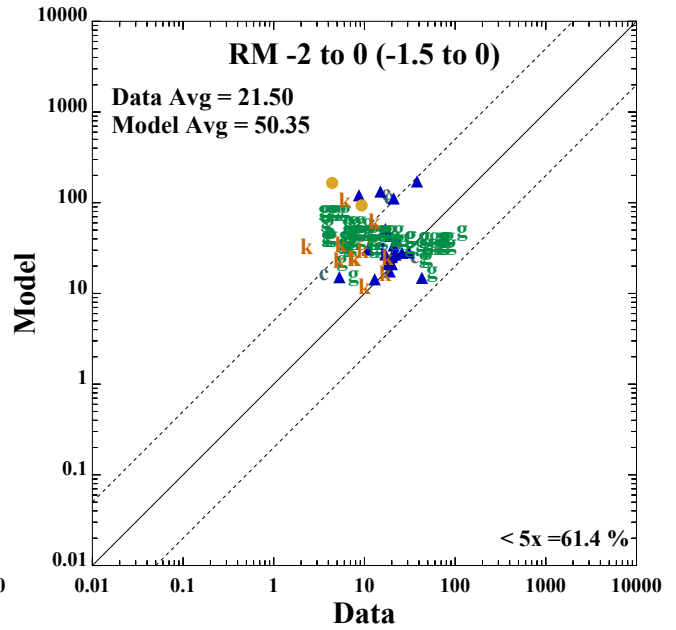
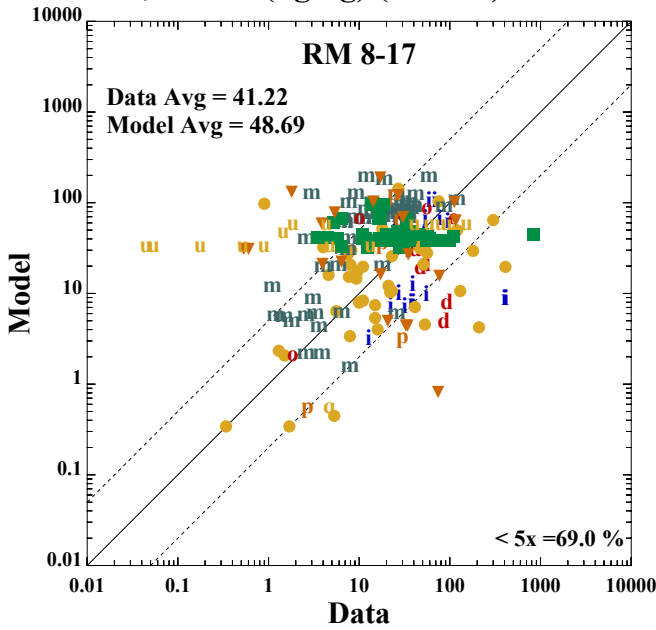
**Top 15cm Average Conc.  
2,4-DDT (ug/kg) (PEST1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

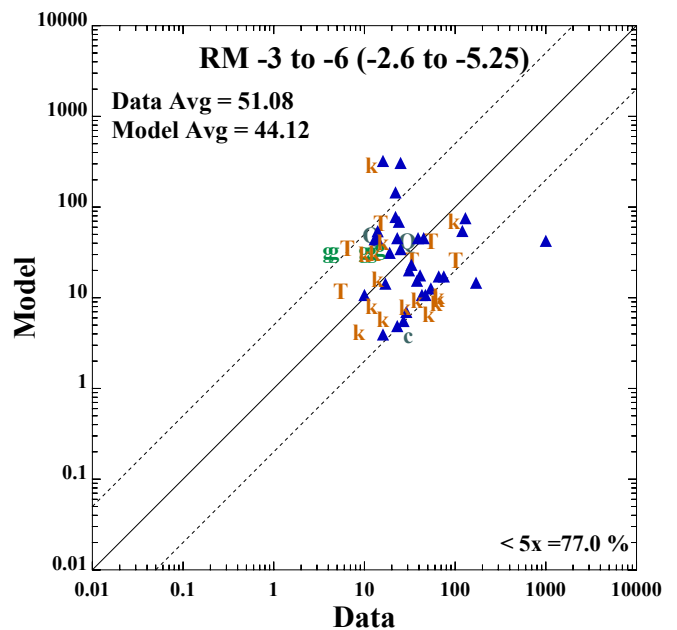
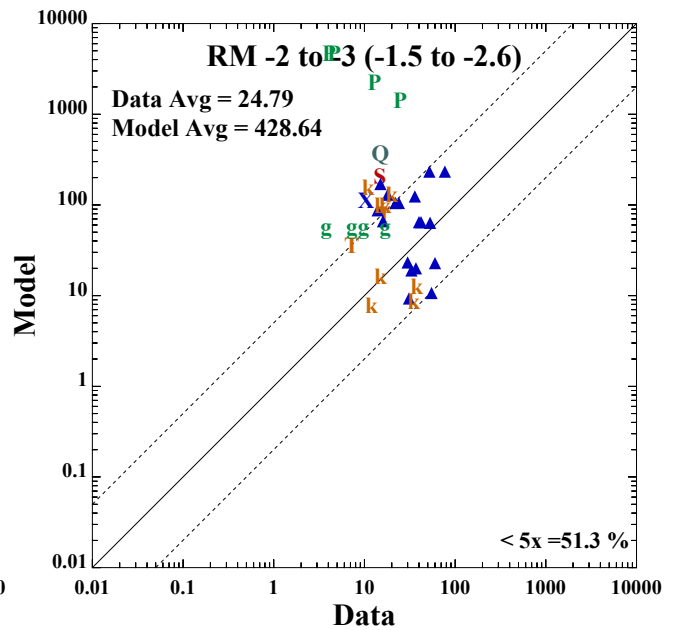
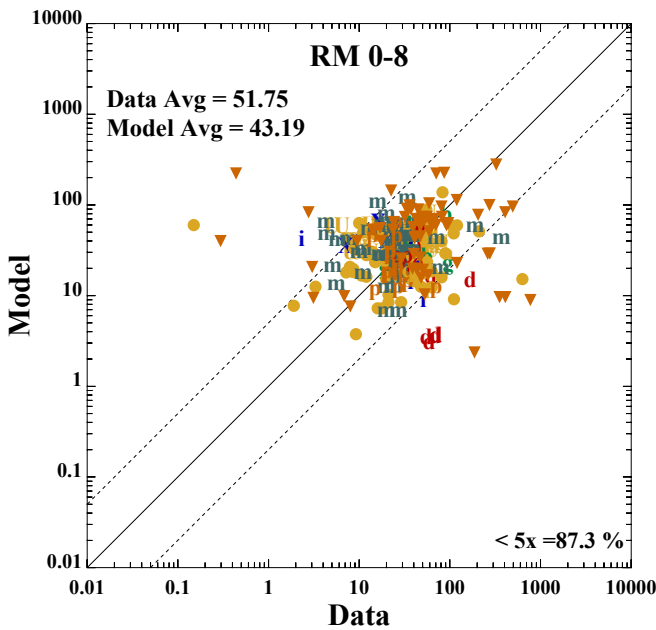
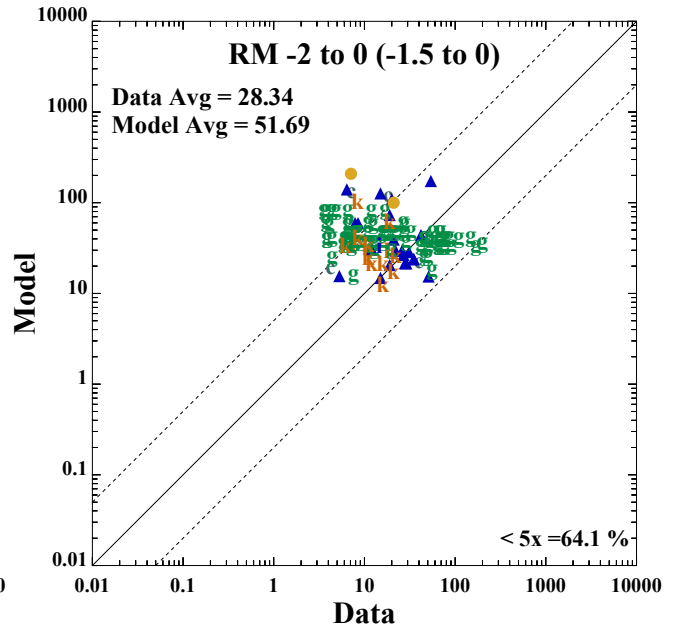
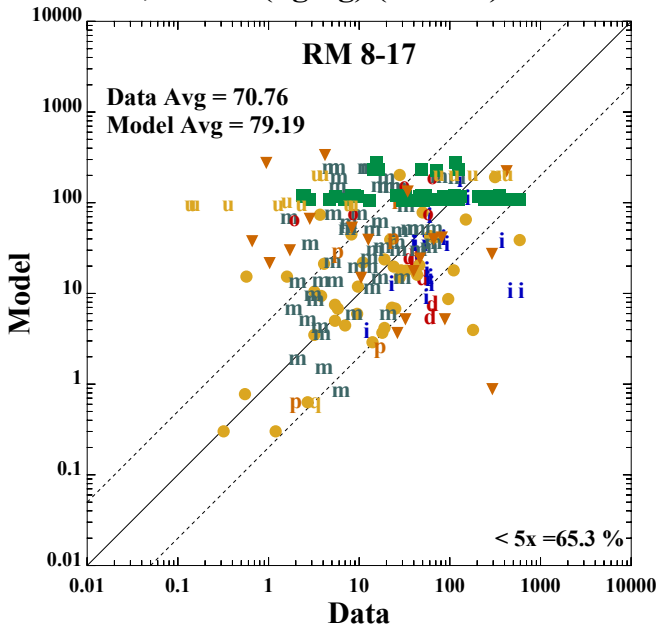


**Top 15cm Average Conc.  
4,4-DDD (ug/kg) (PEST1)**



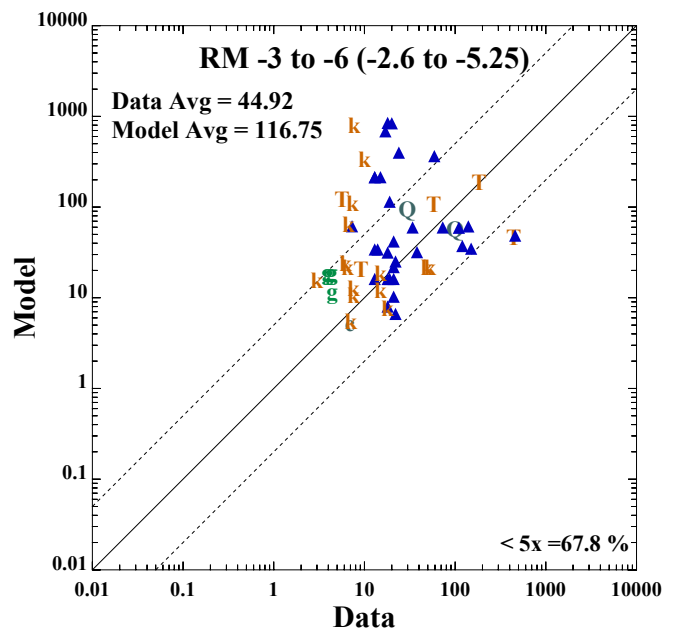
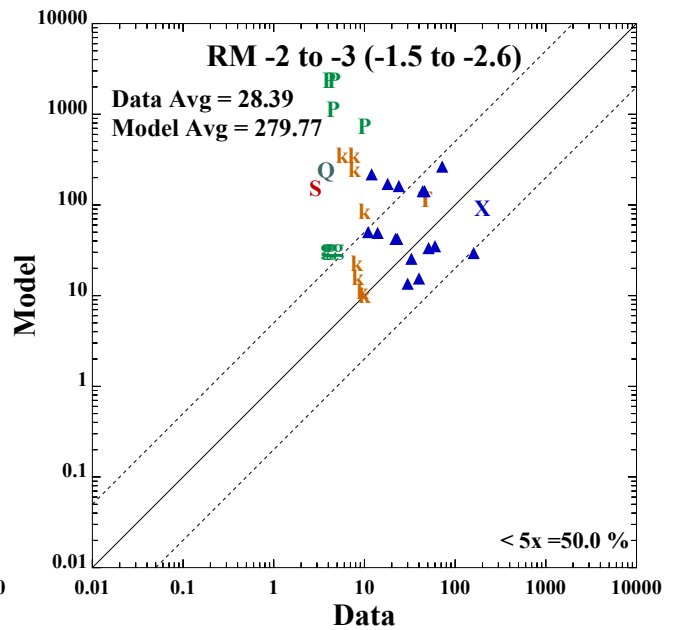
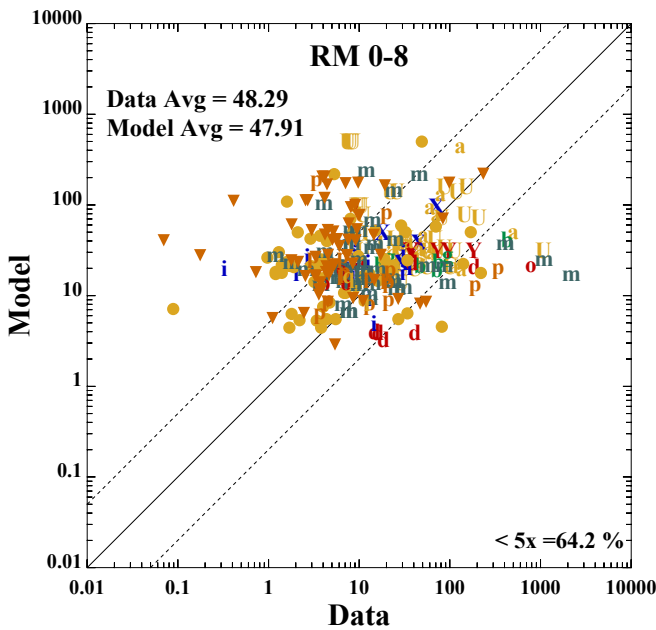
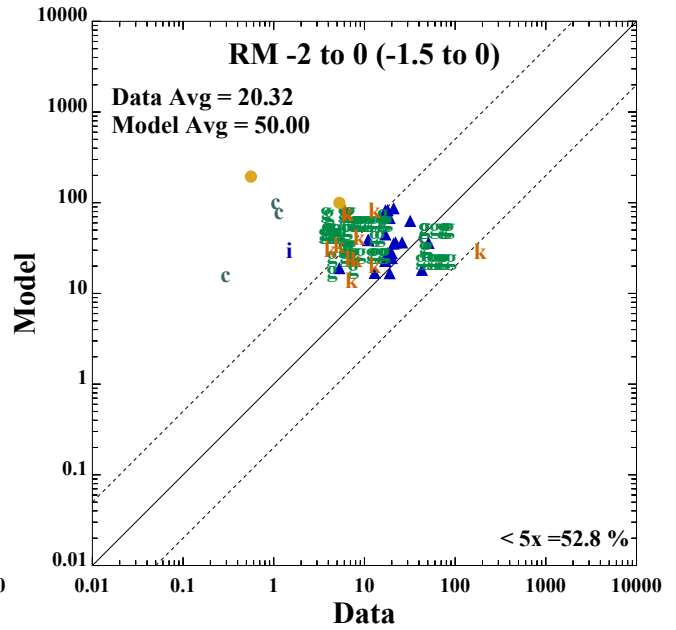
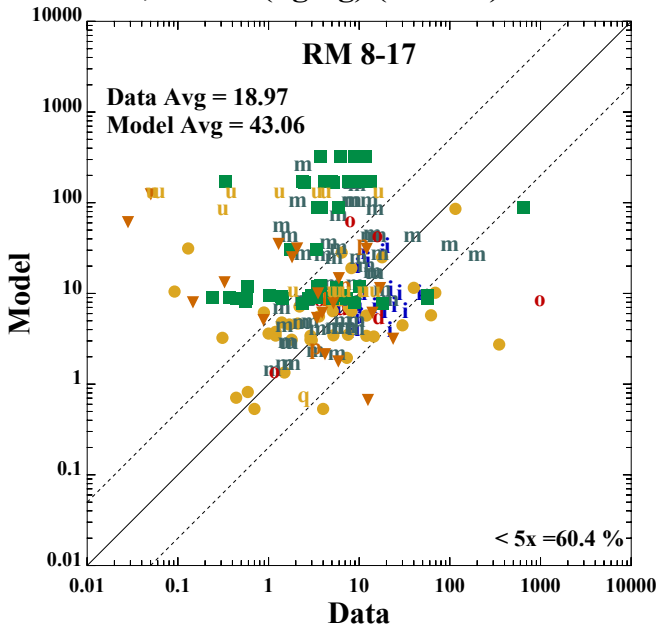
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
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- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

**Top 15cm Average Conc.  
4,4-DDE (ug/kg) (PEST1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

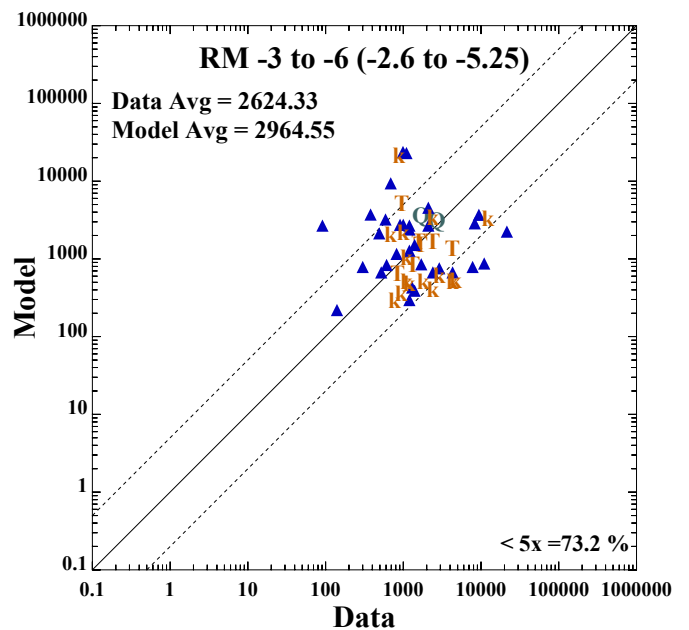
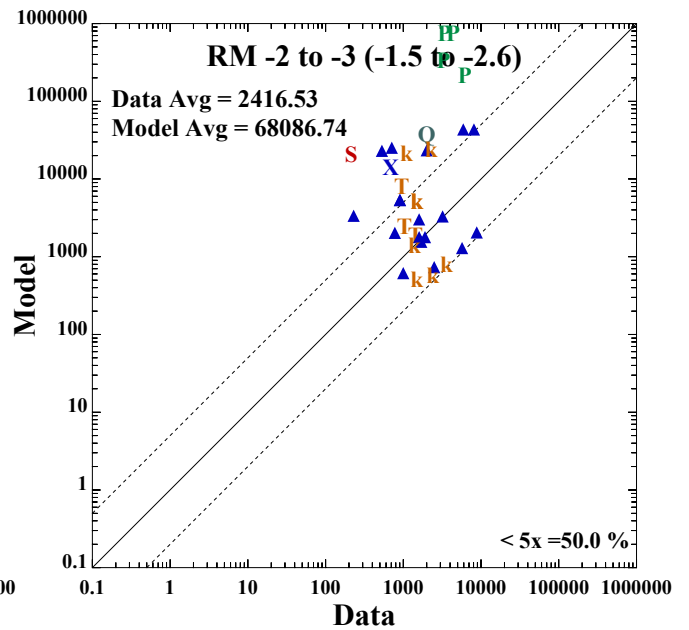
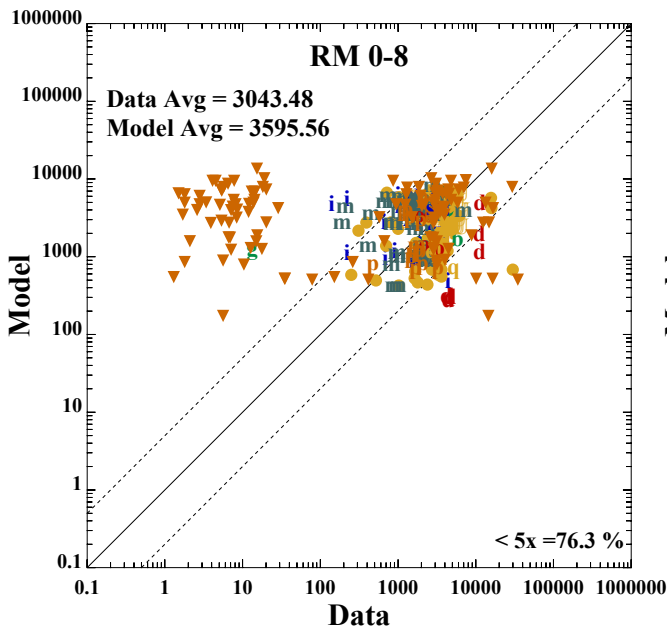
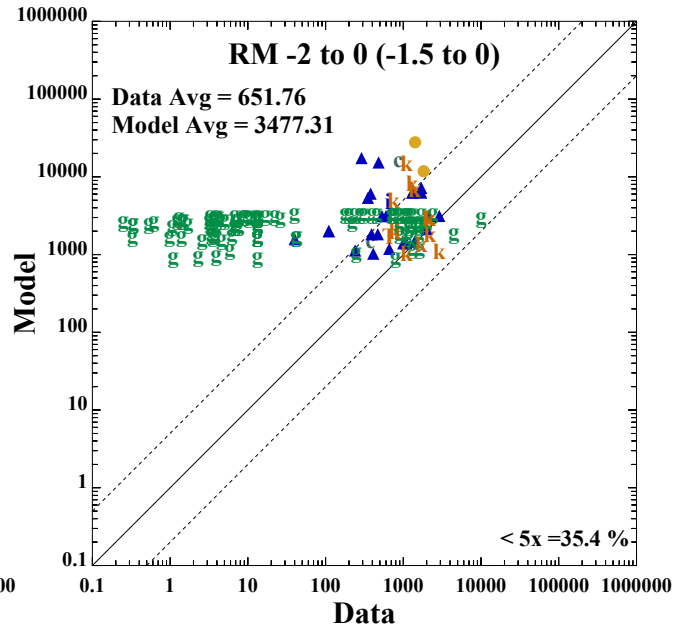
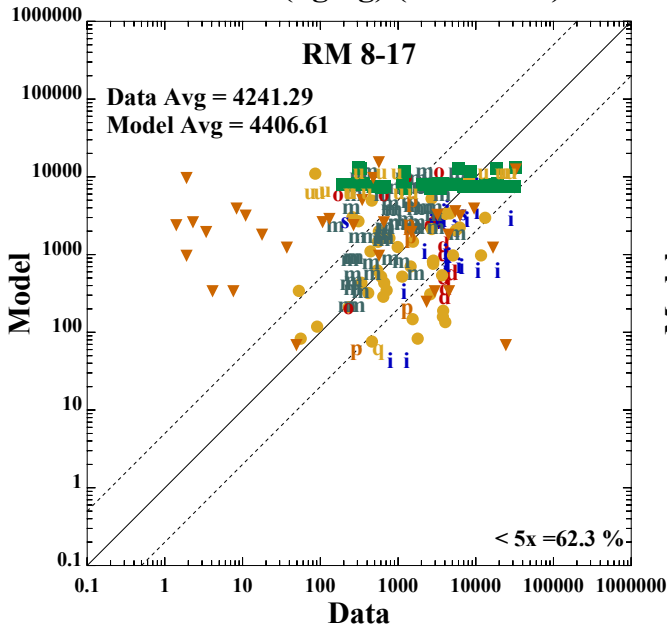
**Top 15cm Average Conc.  
4,4-DDT (ug/kg) (PEST1)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
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- c 2005 MPI - Newark Bay Phase I Oversight
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- d 2005 USEPA-MPI High Res Sediment Core
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- i 2007 USEPA-MPI-EMBM Sediment Samples
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

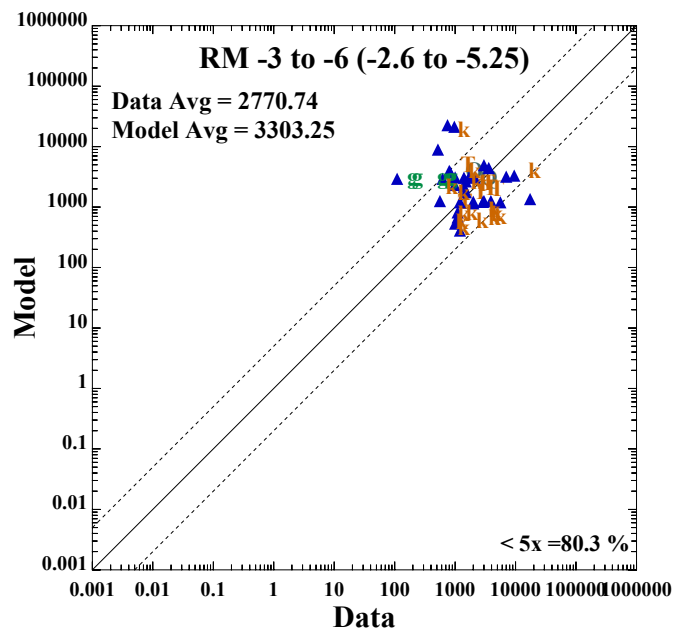
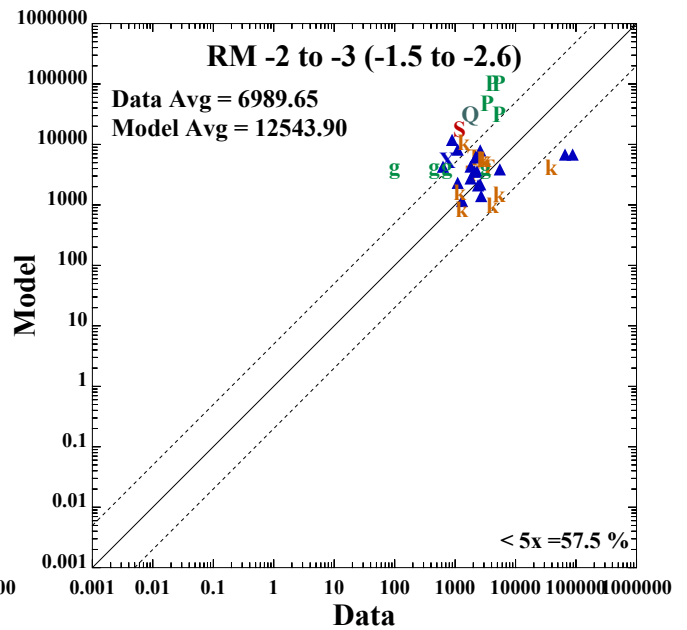
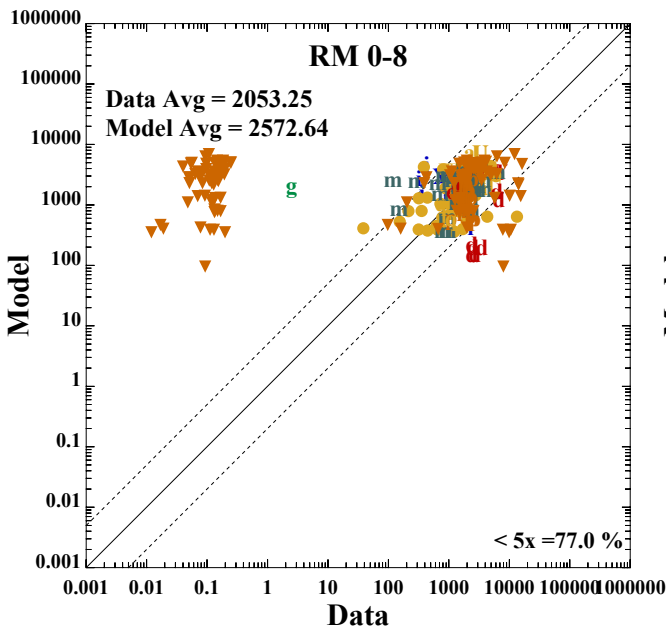
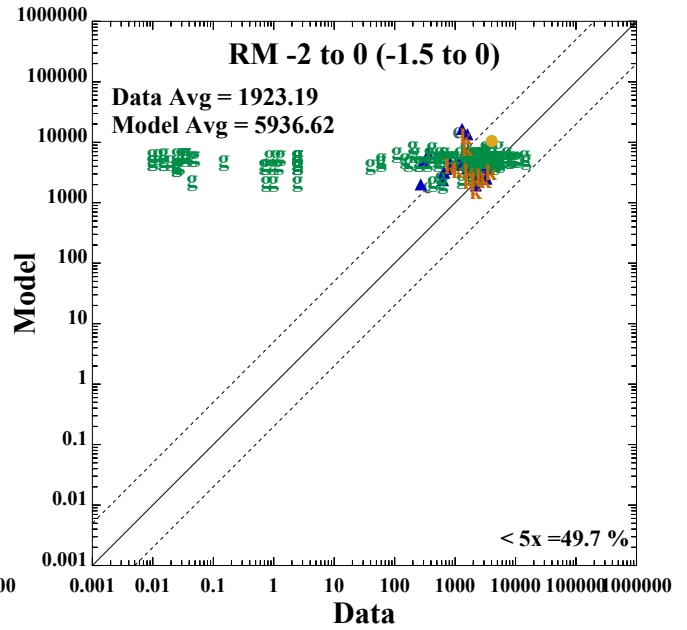
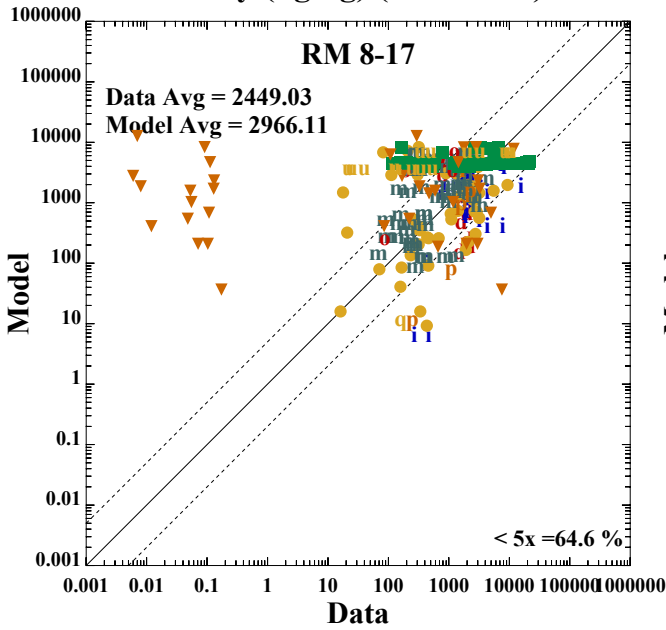


# Top 15cm Average Conc. Cadmium (ug/kg) (METALS)



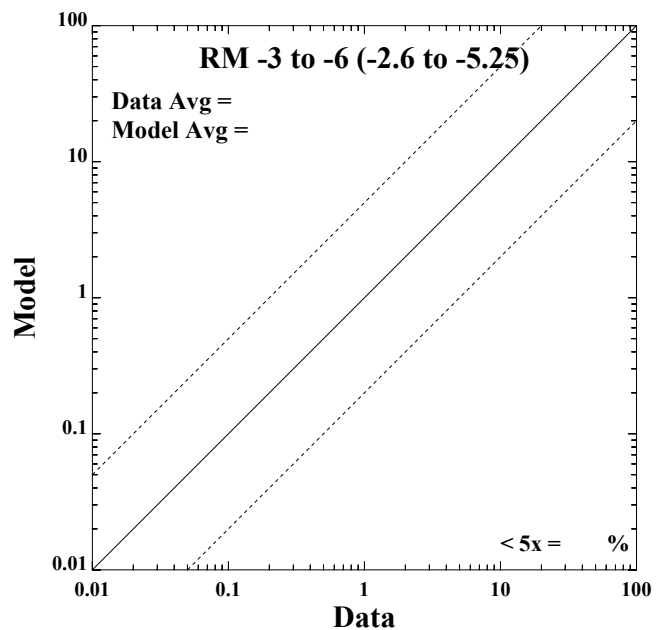
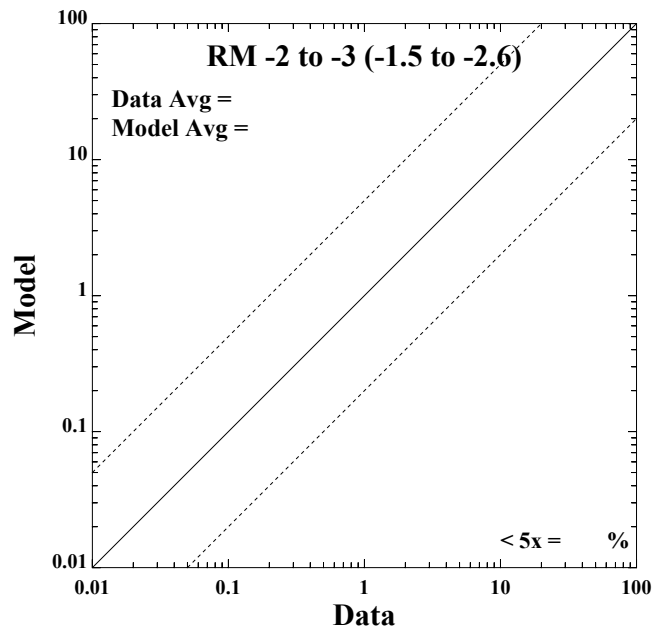
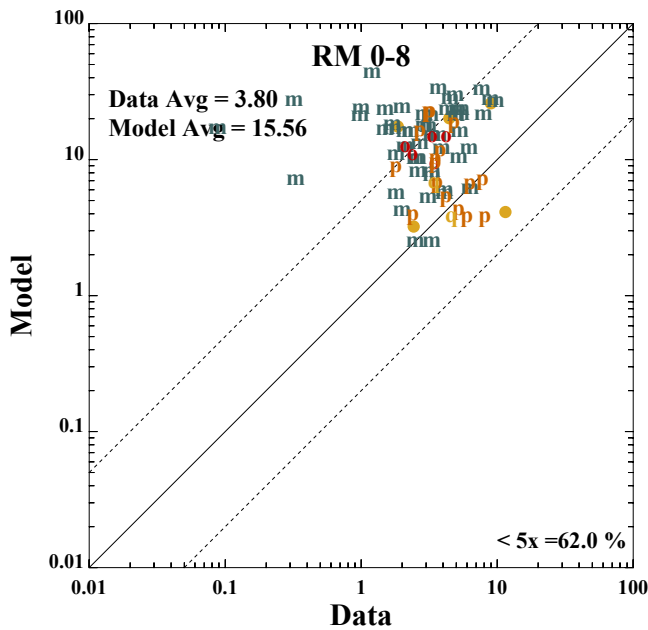
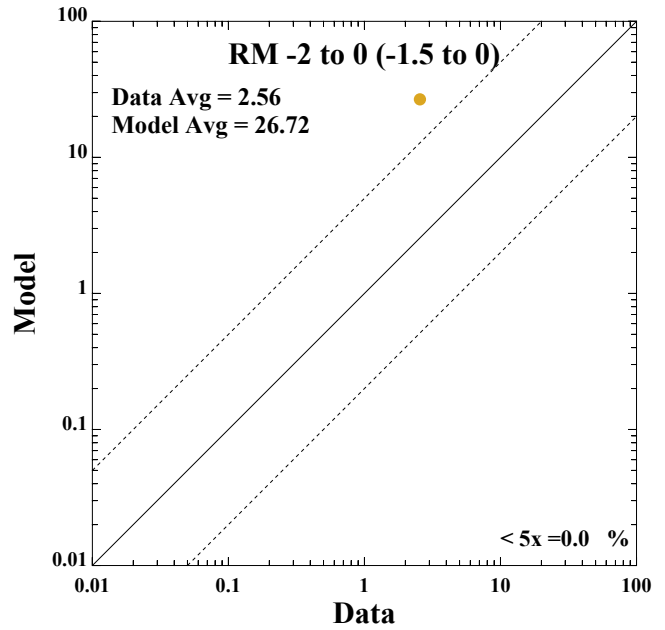
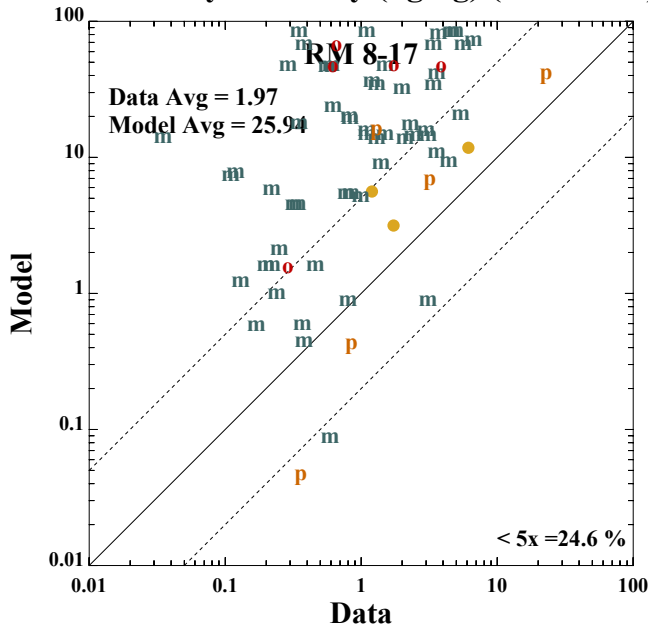
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

## Top 15cm Average Conc. Mercury (ug/kg) (METALS)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

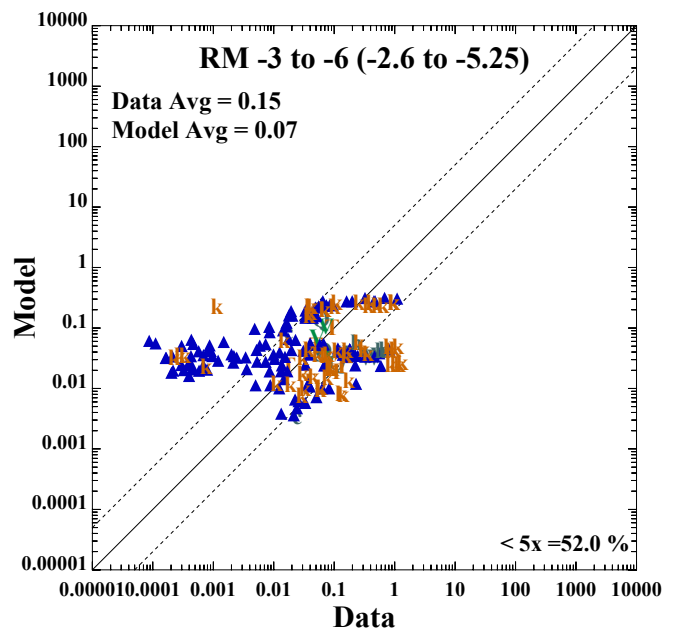
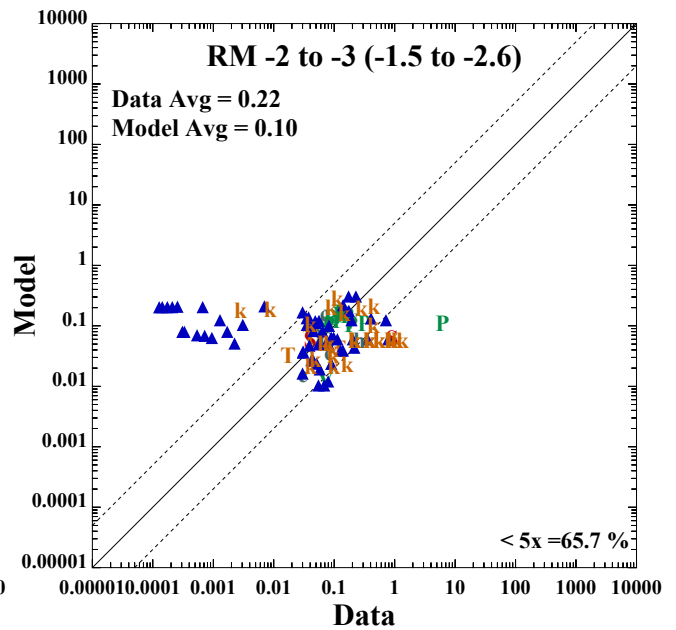
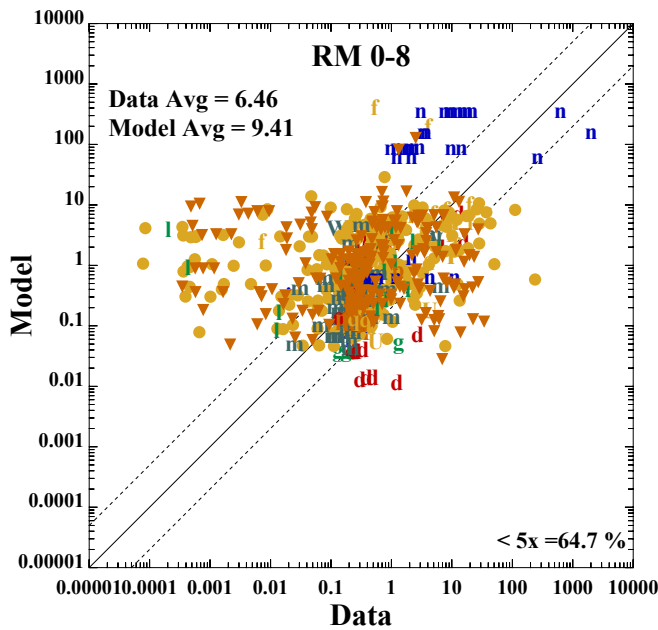
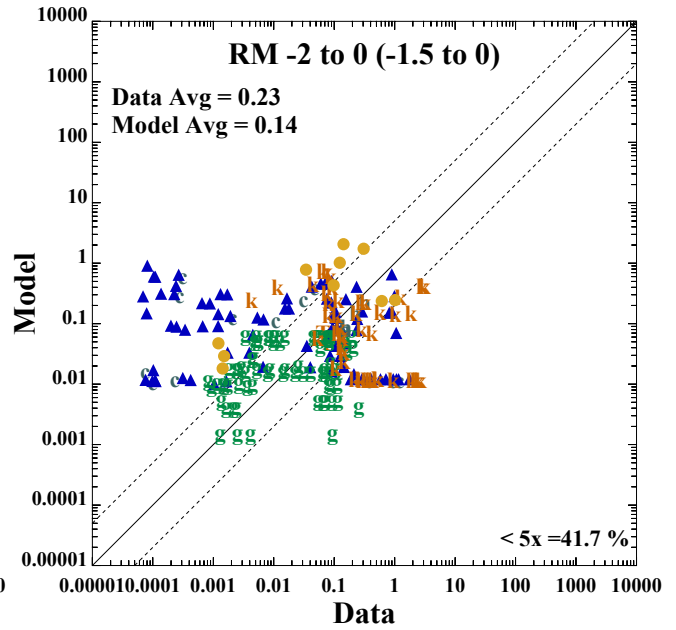
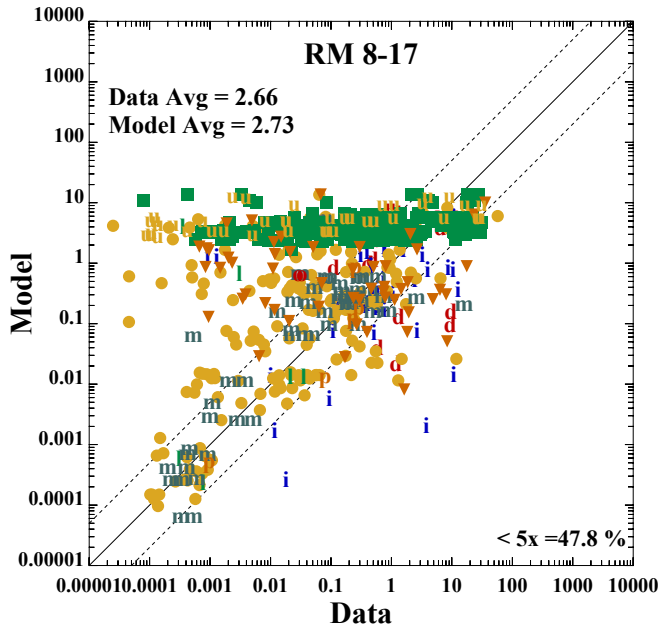
**Top 15cm Average Conc.  
Methyl mercury (ug/kg) (METALS)**



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

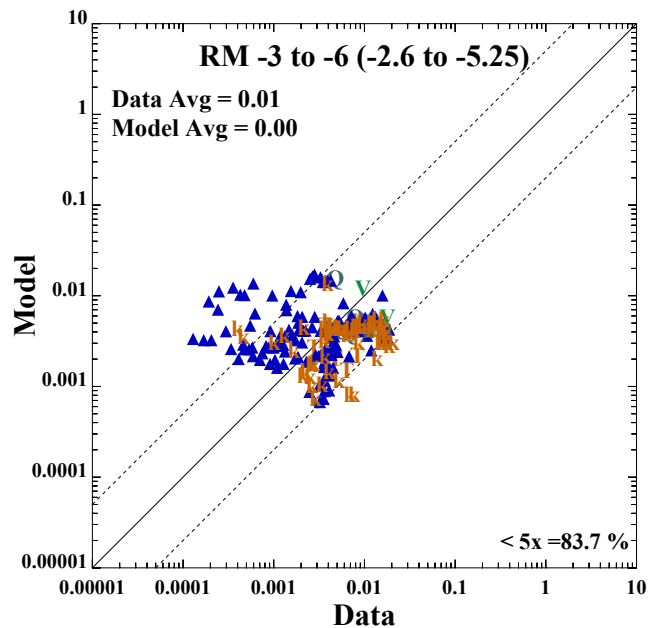
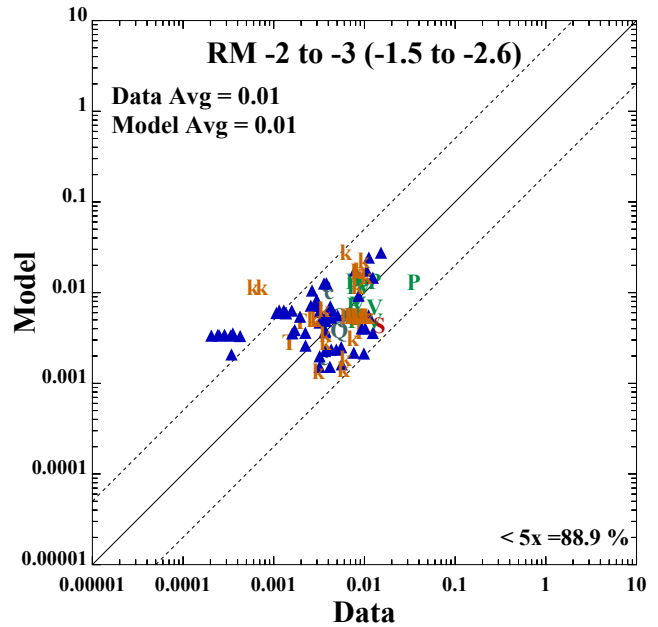
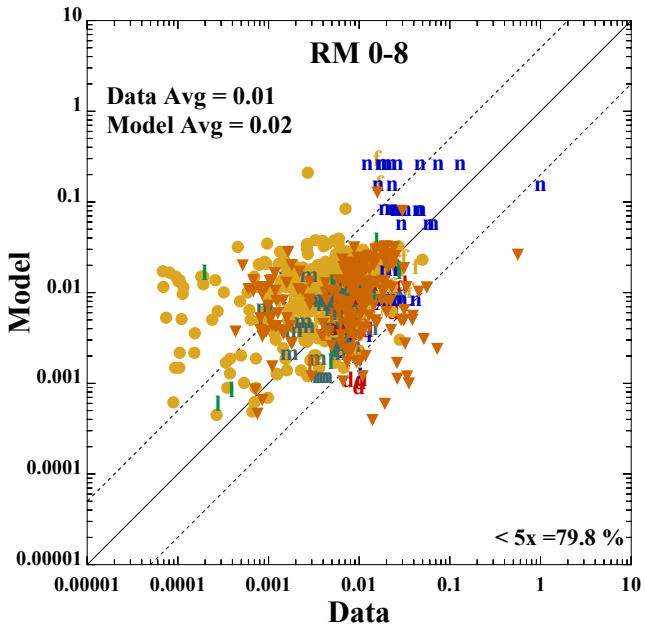
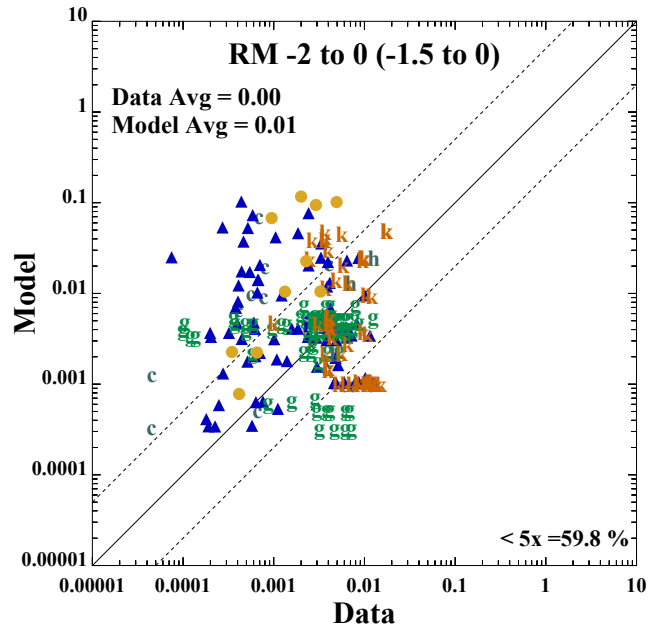
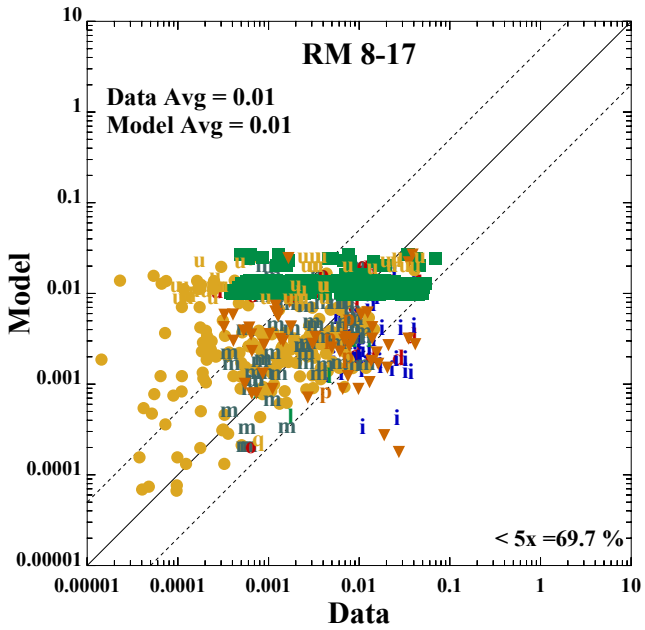
**Attachment D-2**  
**X-Y Scatter Plots for All Layers**

# All Layers 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



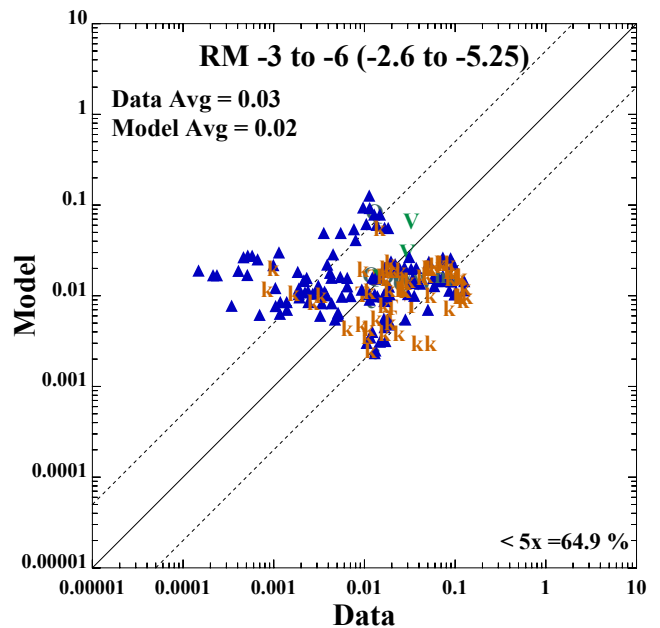
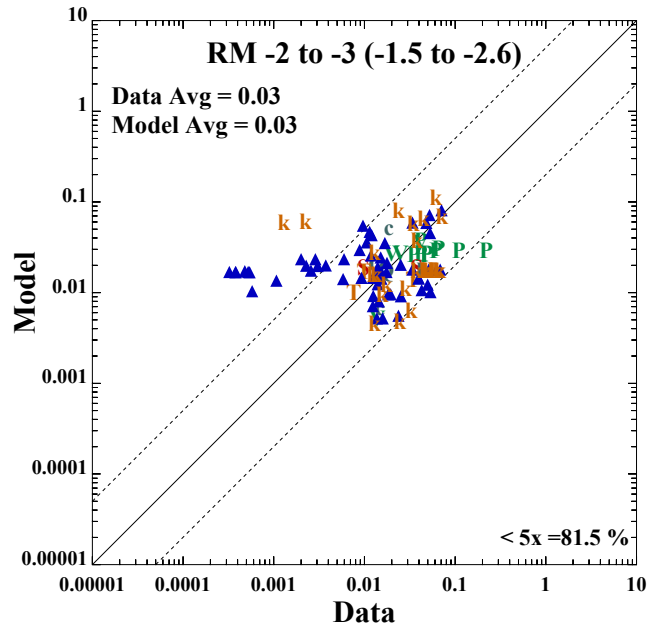
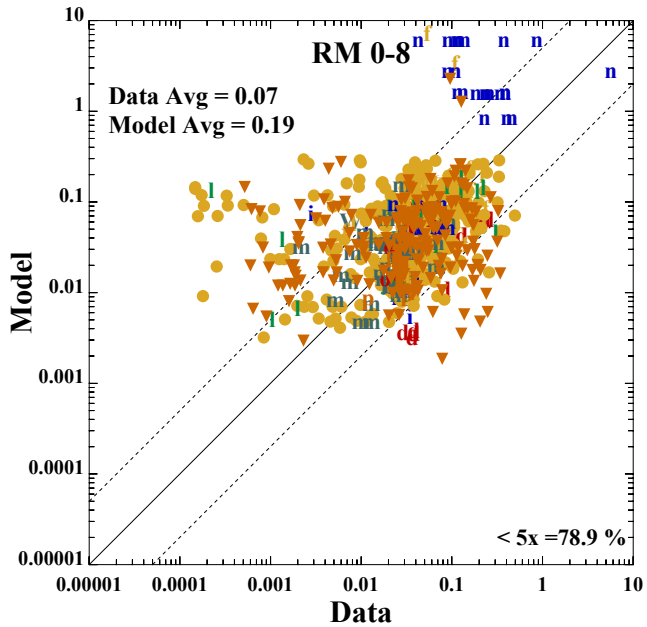
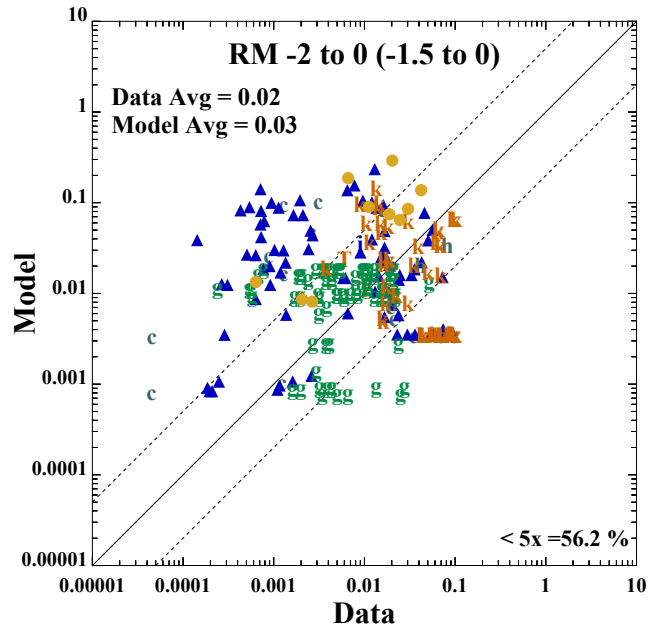
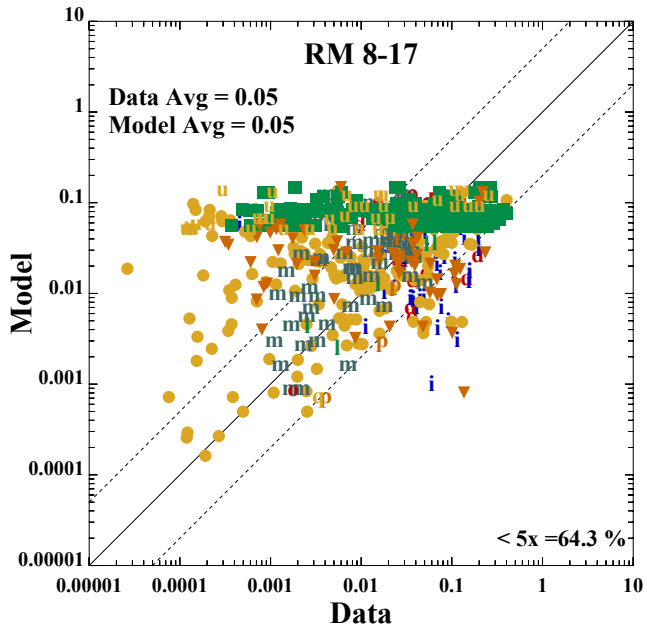
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



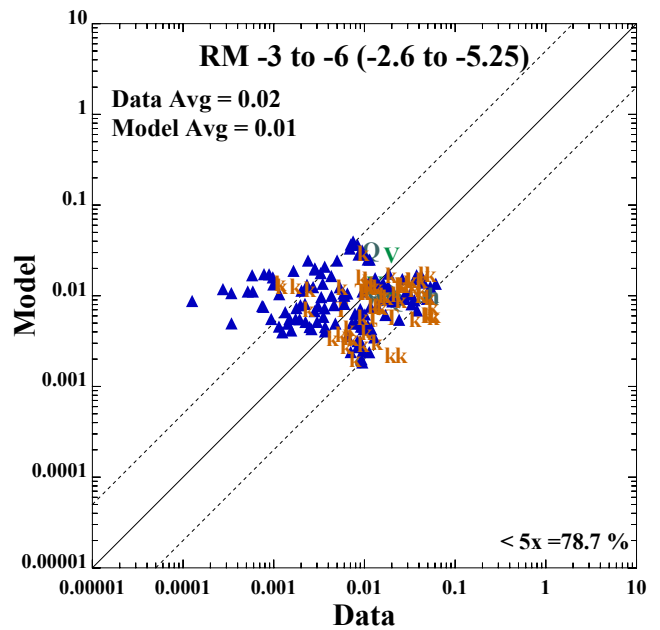
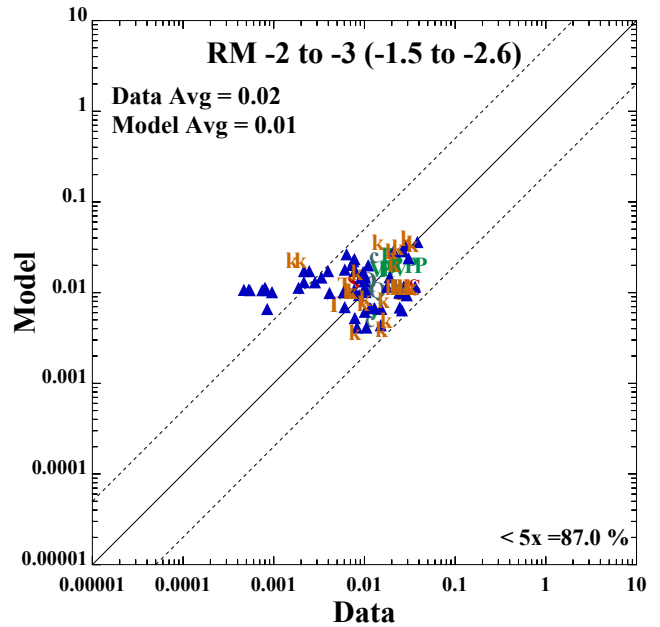
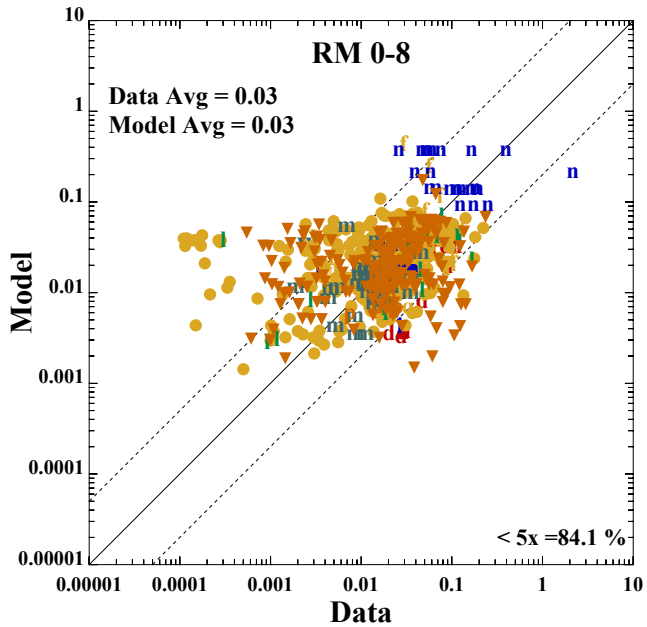
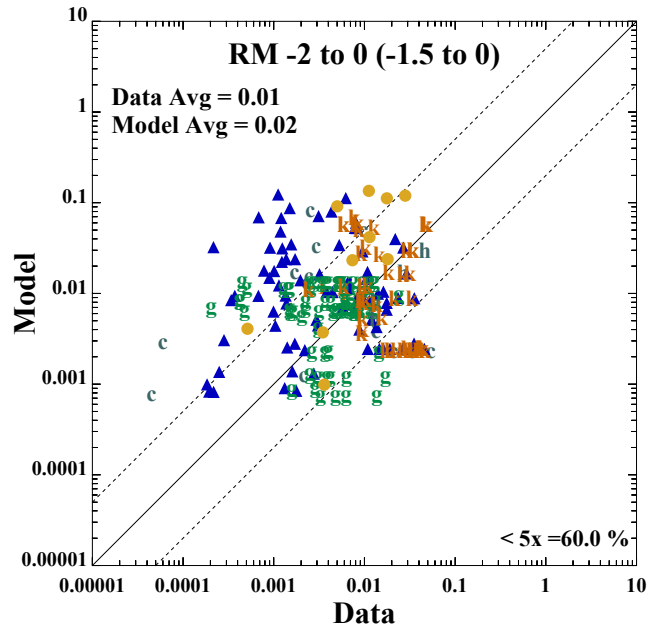
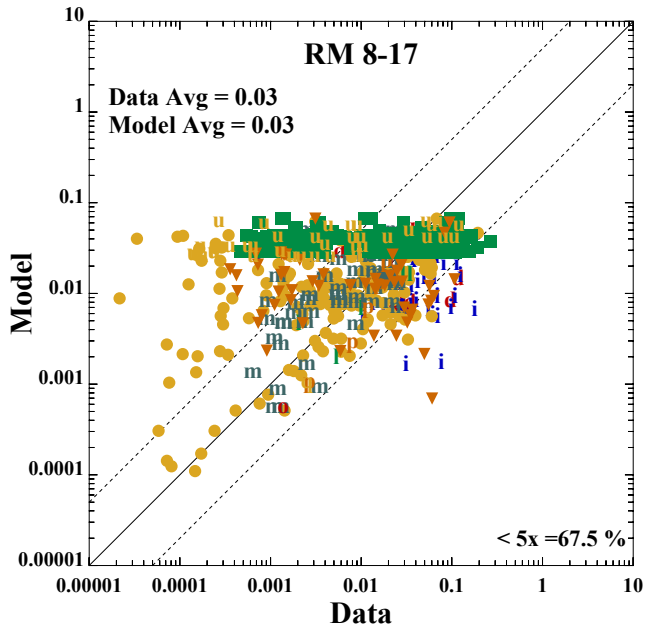
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
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- b 2000 Toxicity Identification Evaluation
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

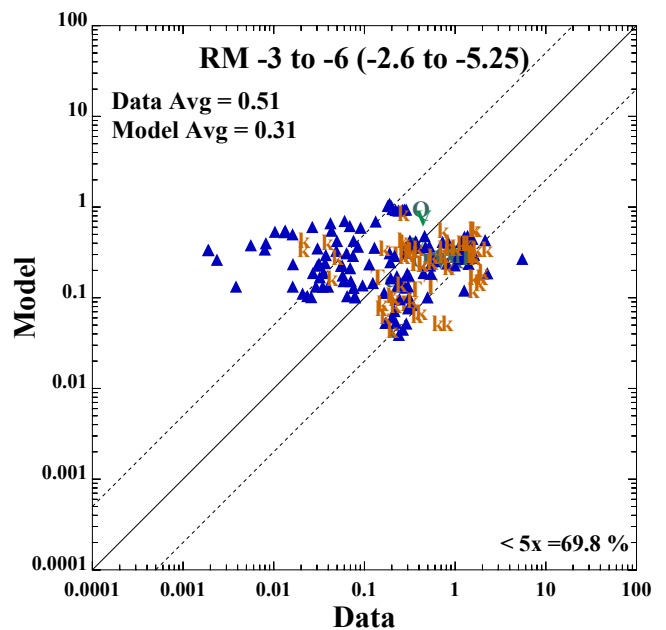
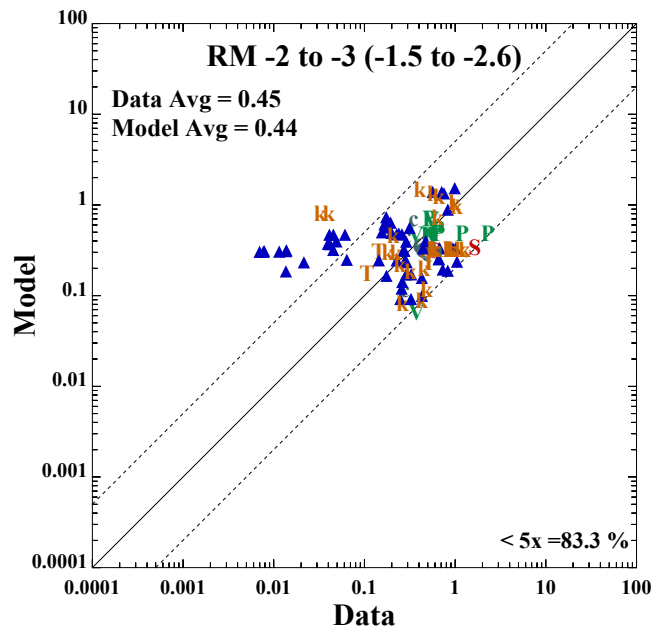
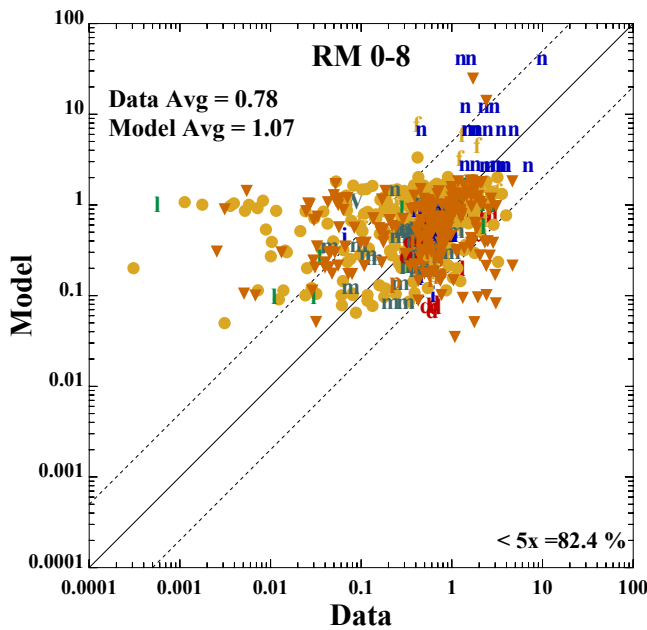
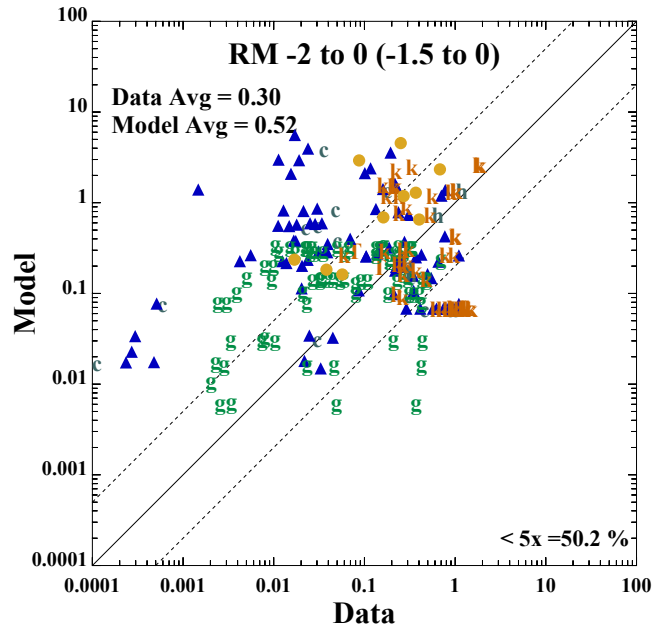
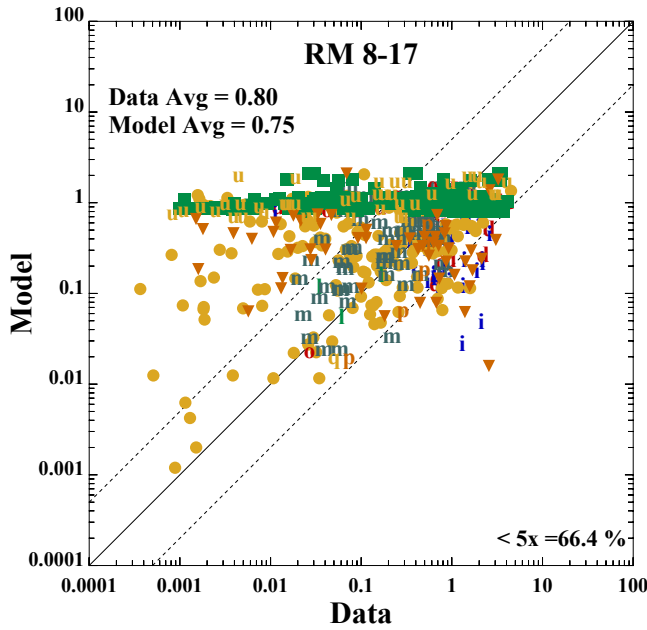
# All Layers 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

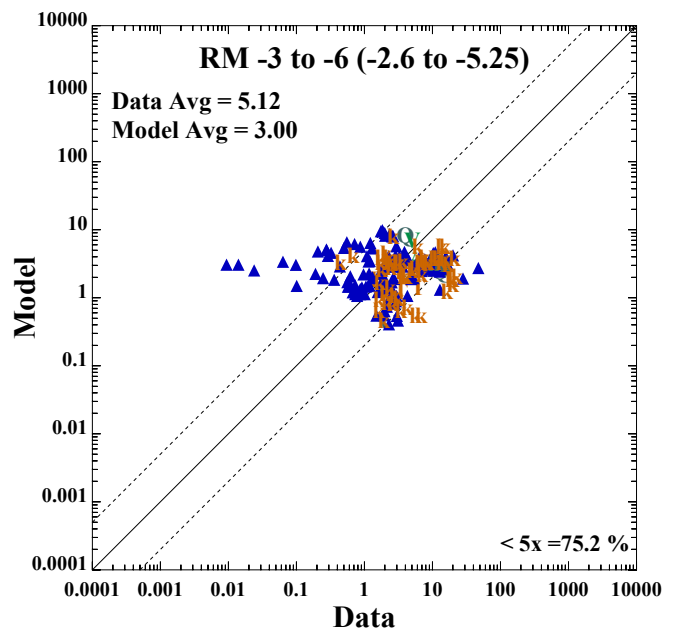
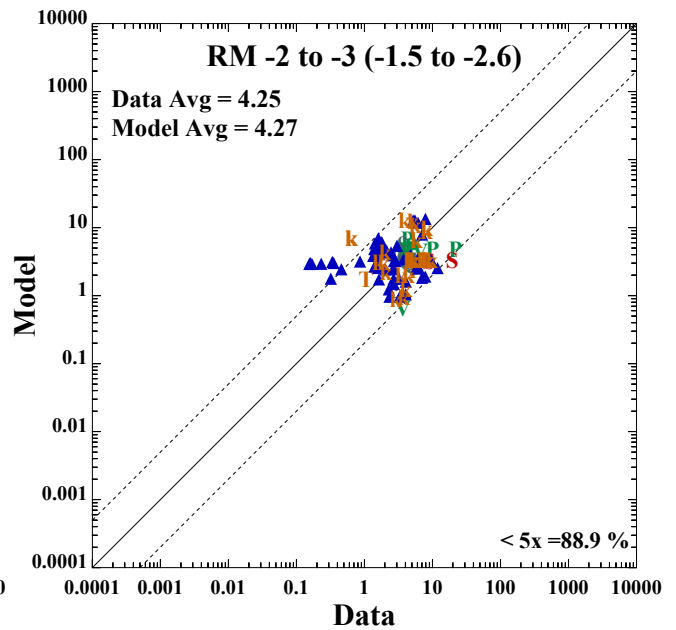
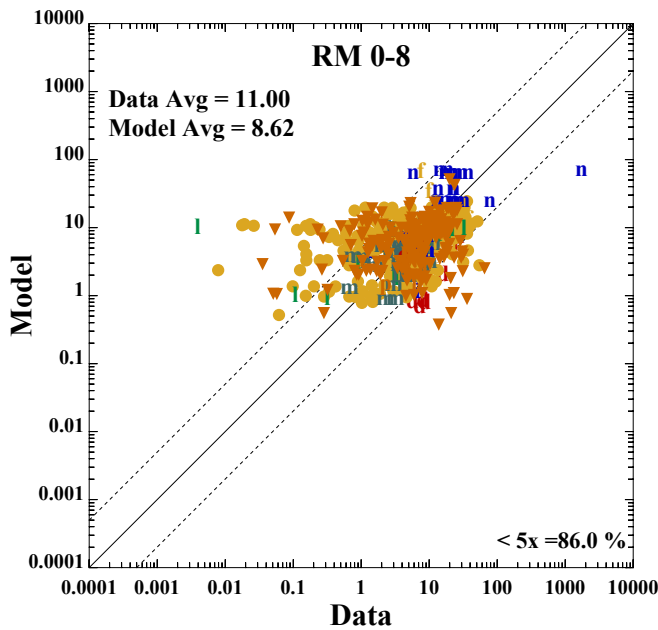
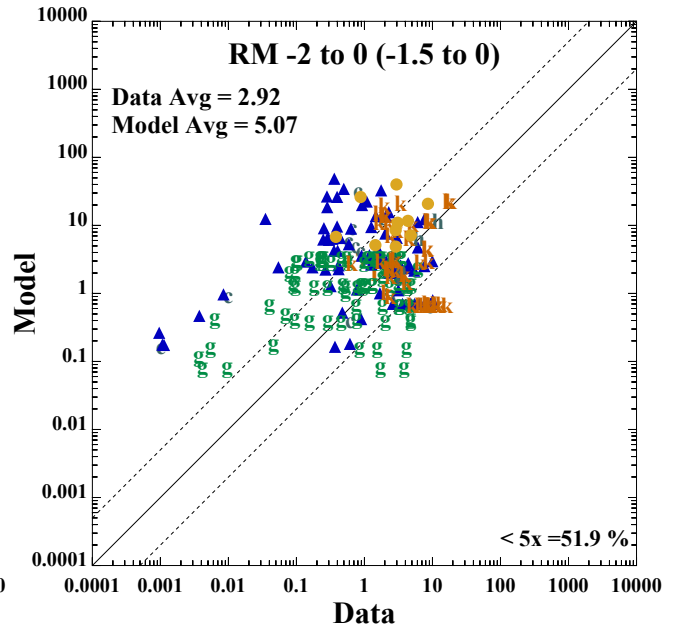
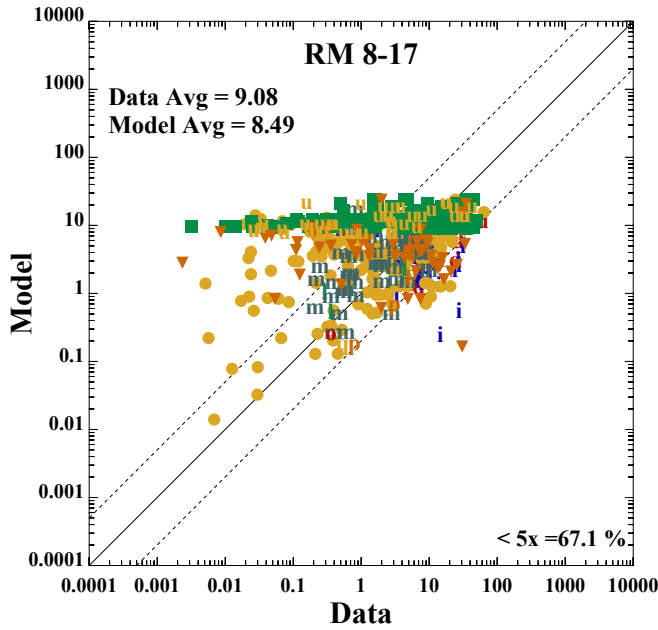


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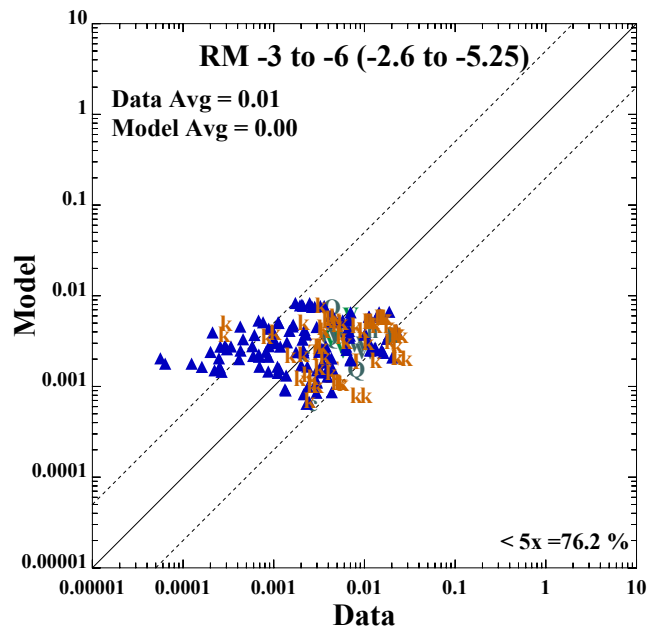
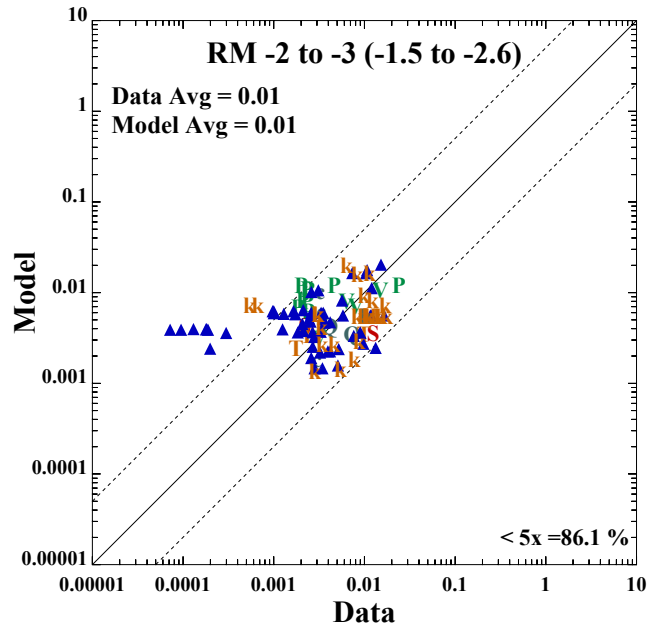
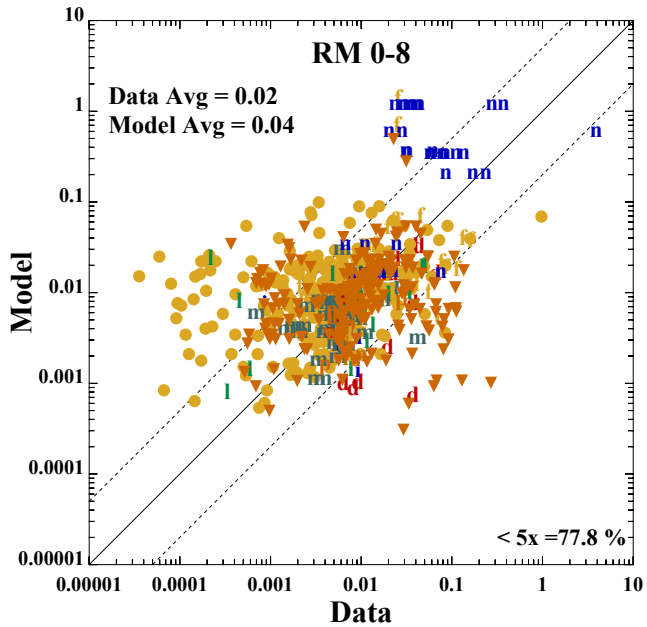
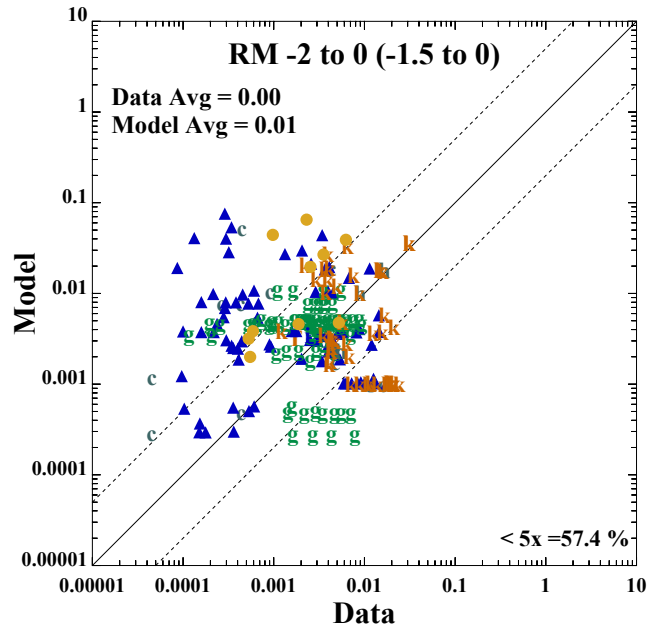
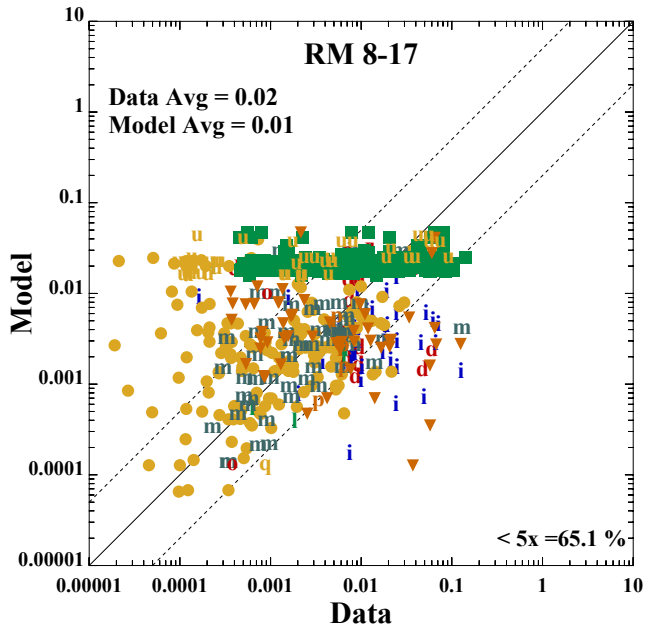
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers OCDD (ug/kg) (DIOXIN1)



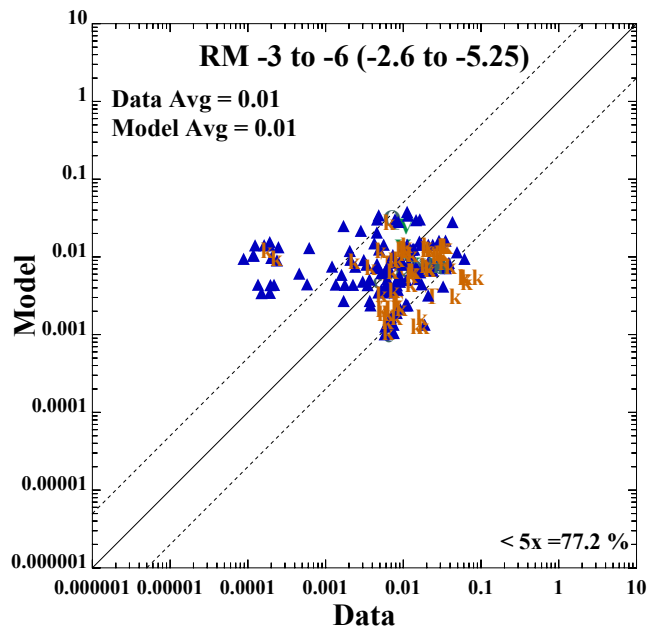
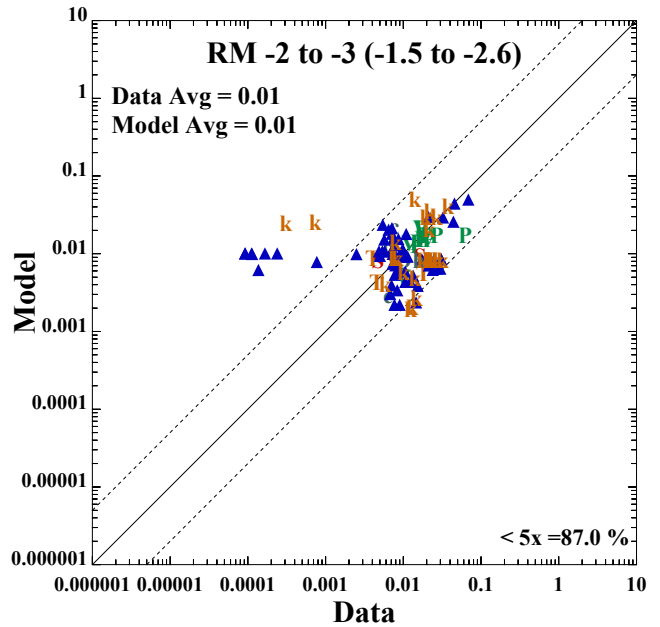
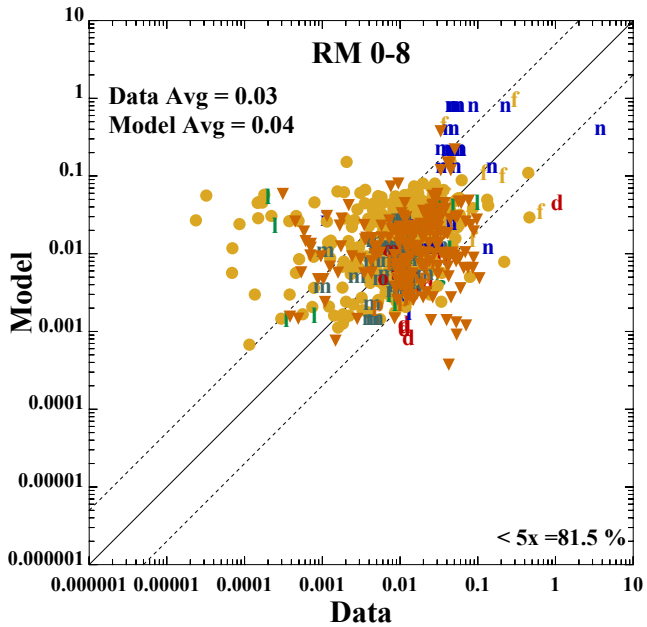
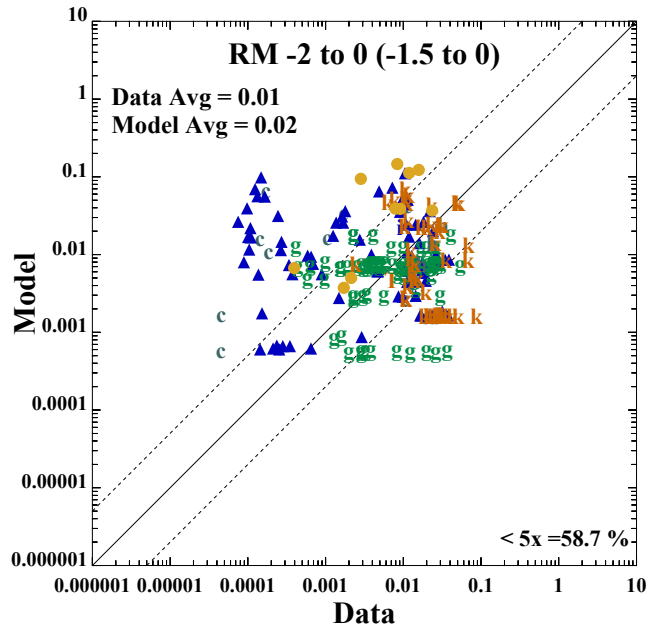
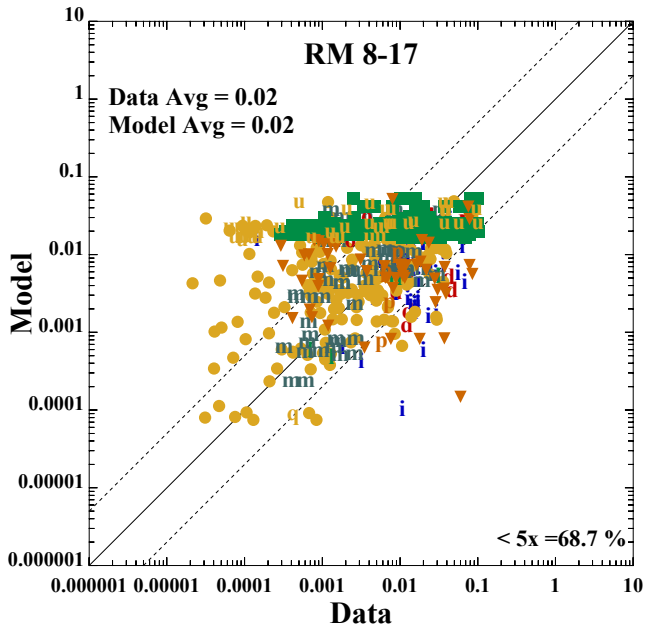
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

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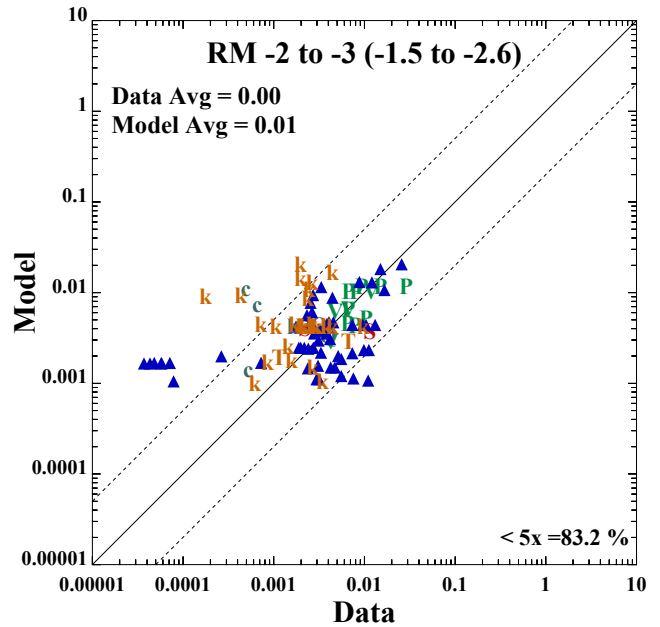
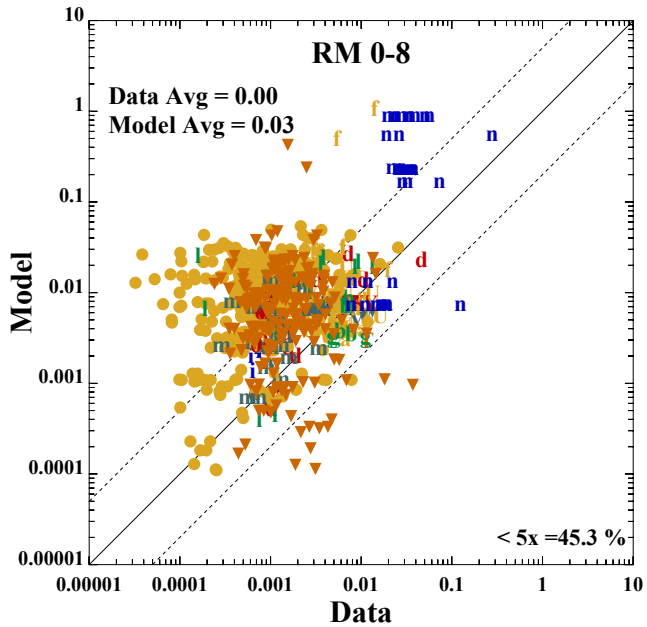
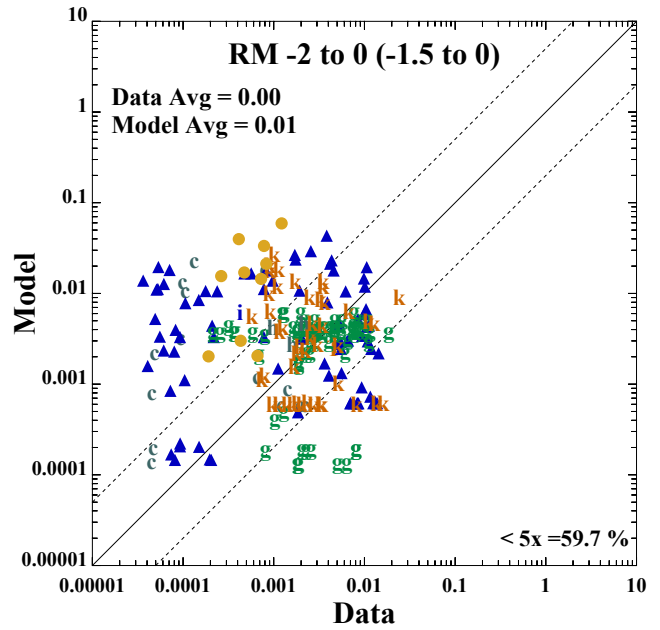
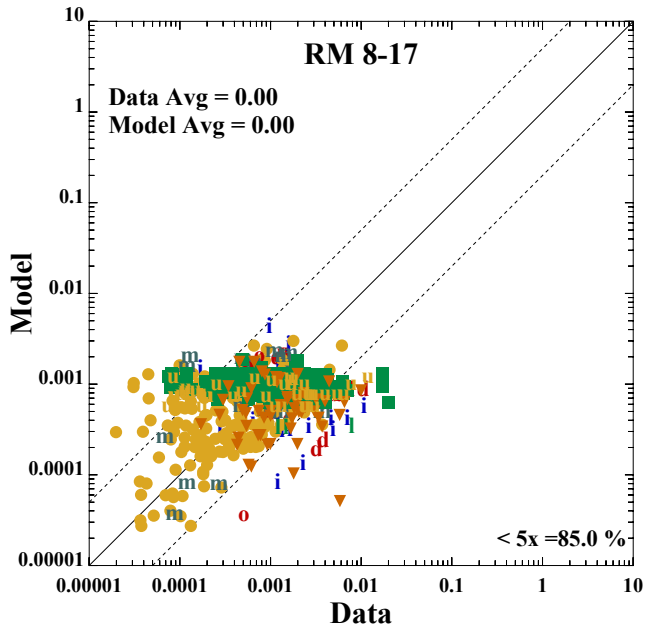
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

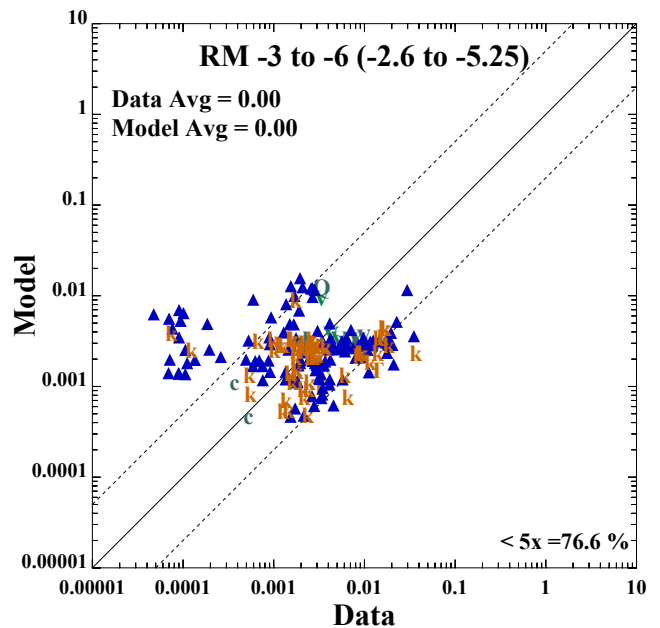


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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

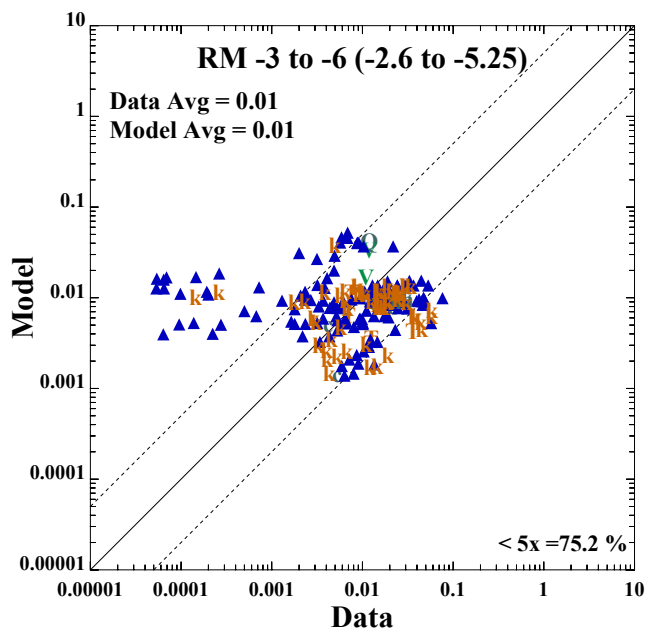
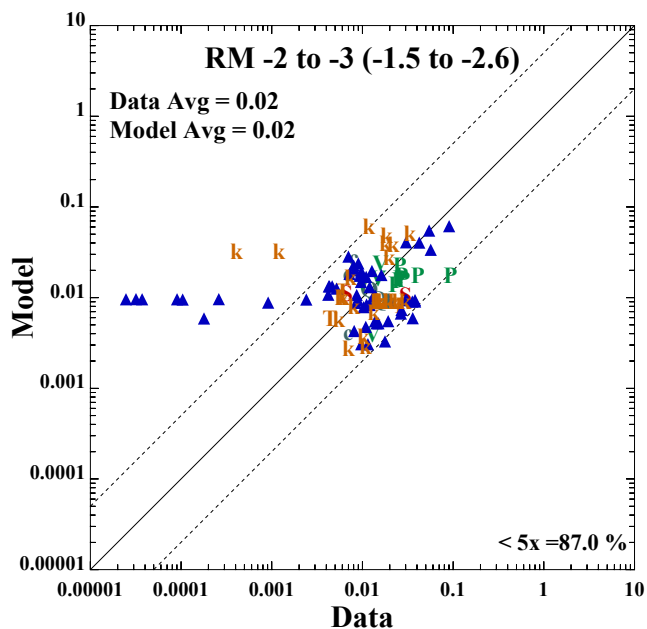
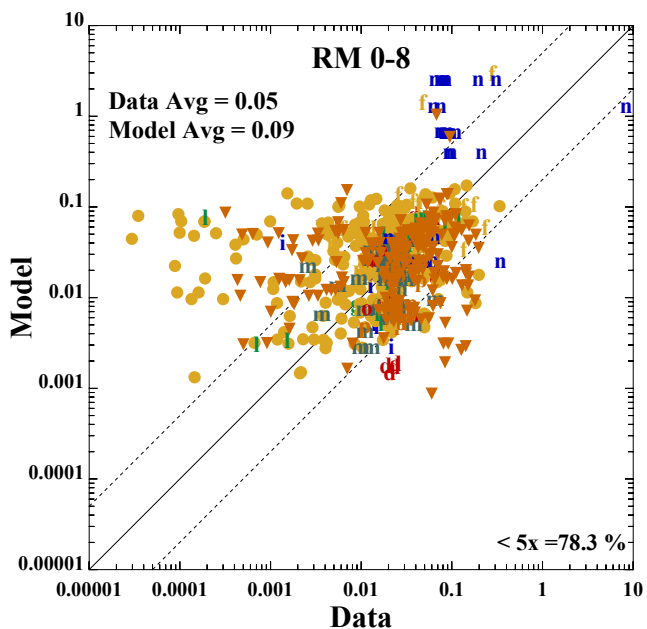
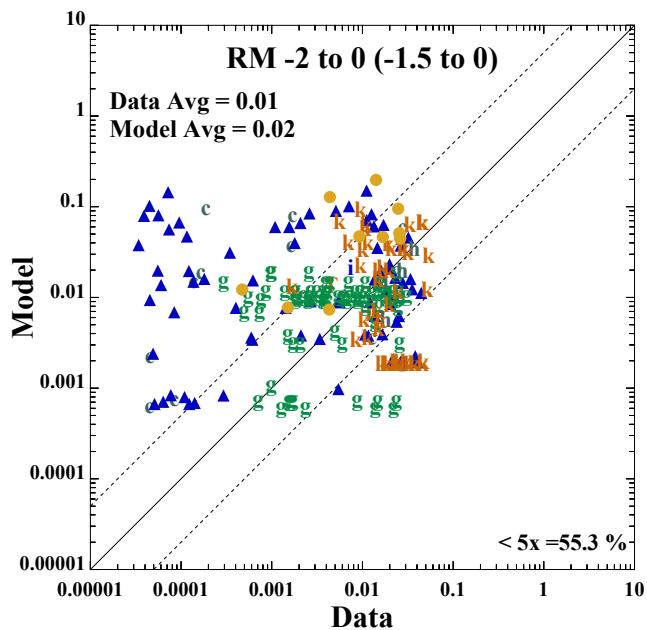
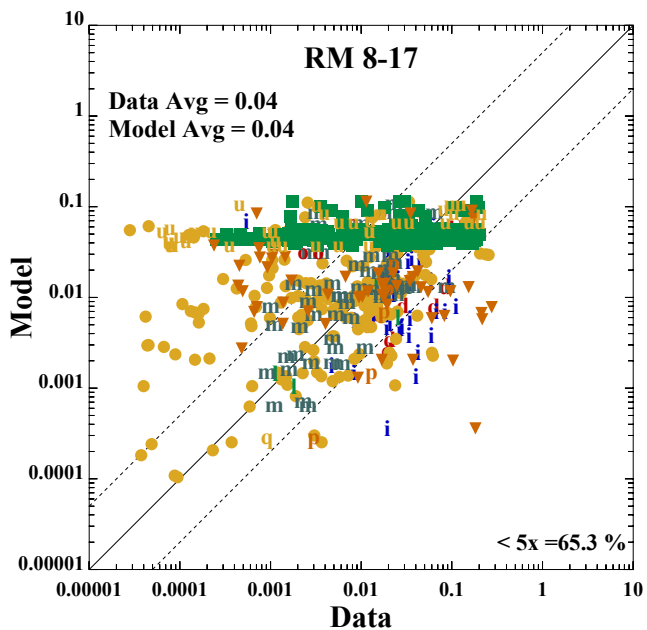
# All Layers 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

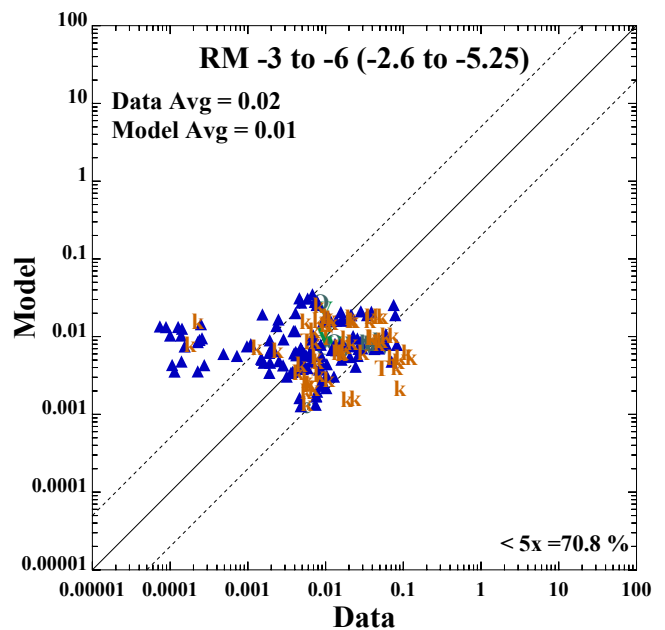
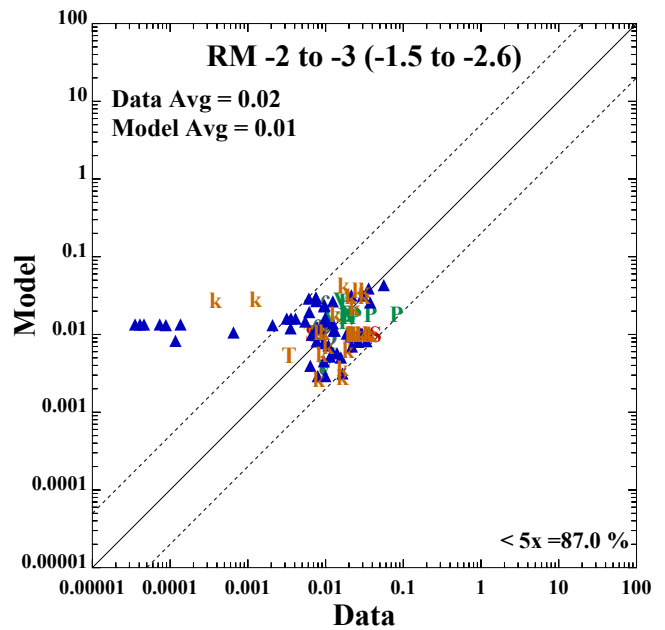
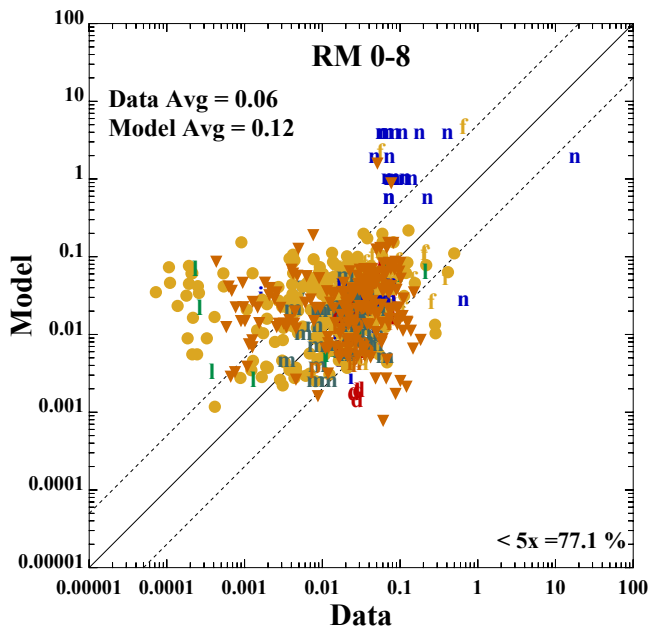
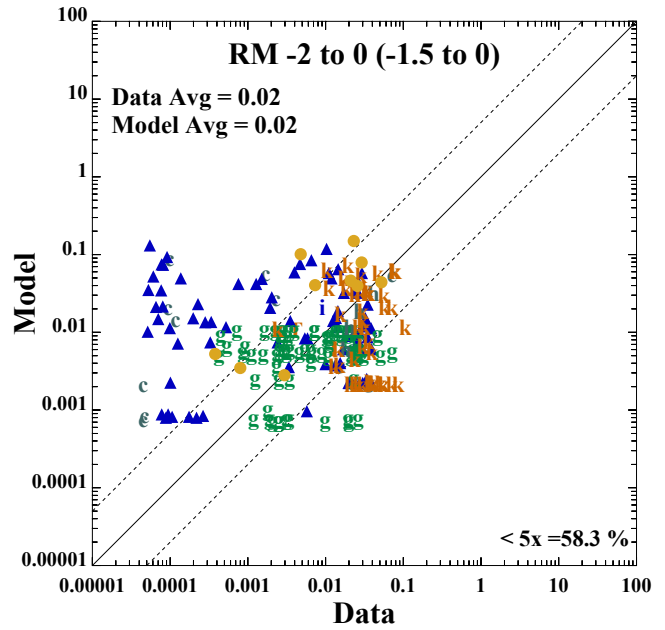
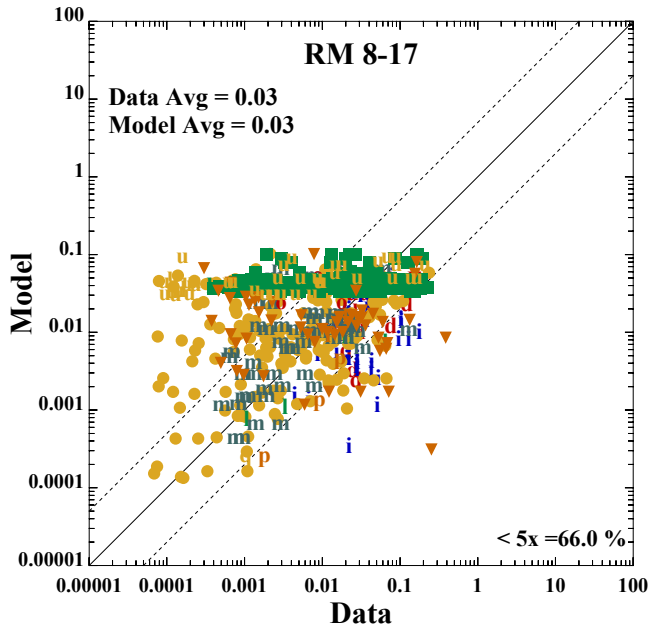


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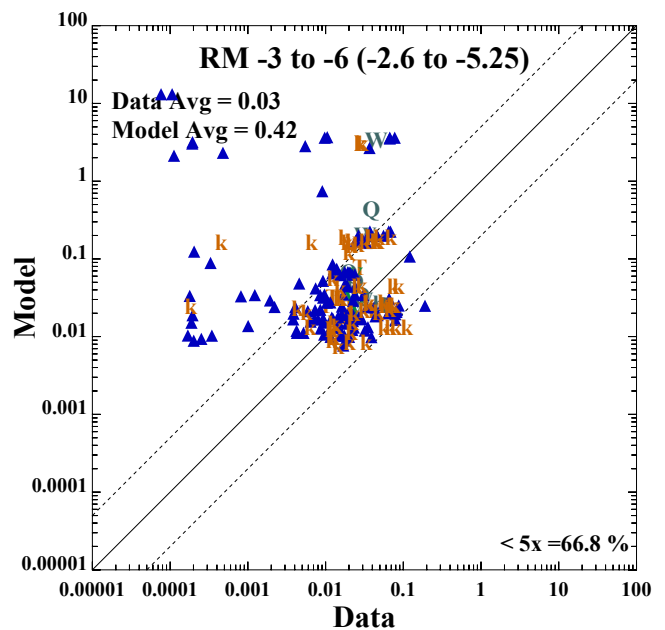
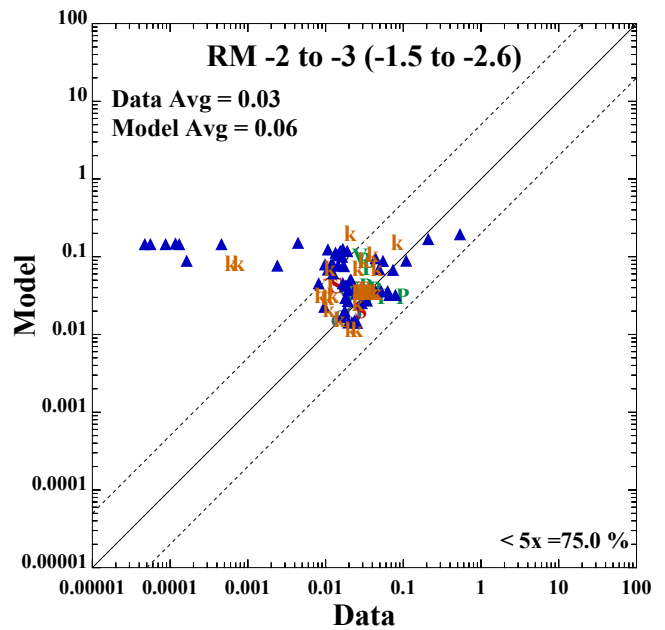
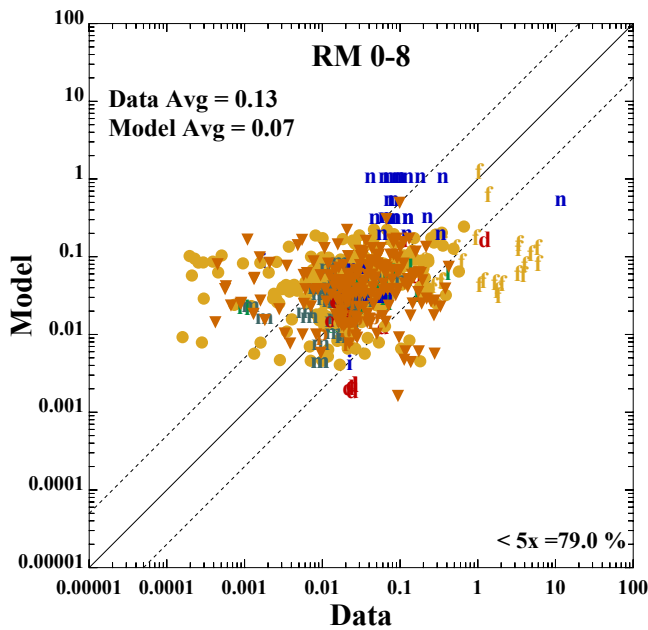
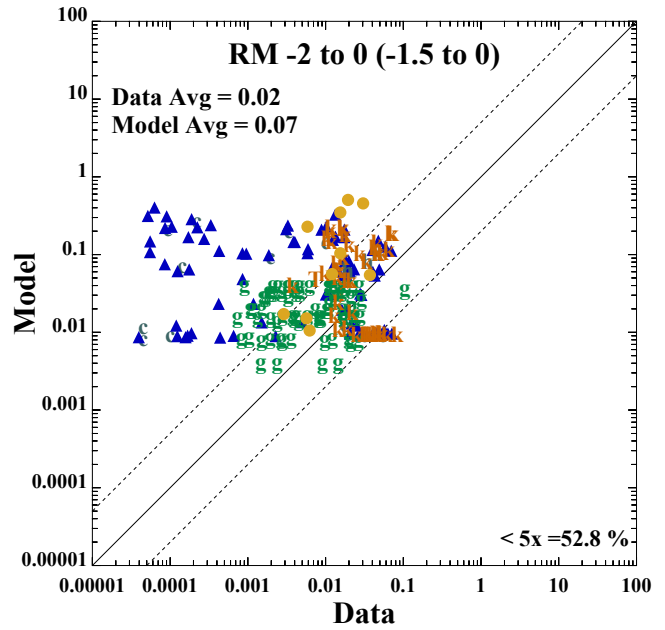
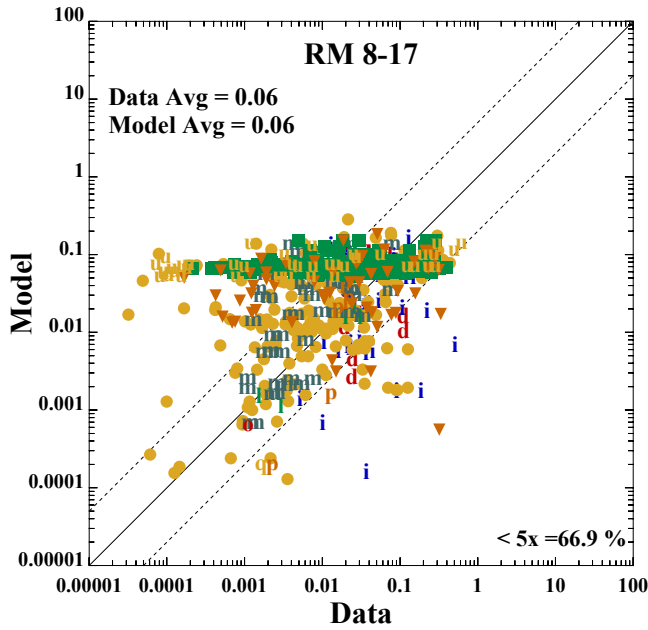
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- e 2006 HRSA RI Sampling Program
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- i 2007 USEPA-MPI-EMBM Sediment Samples
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- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
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- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

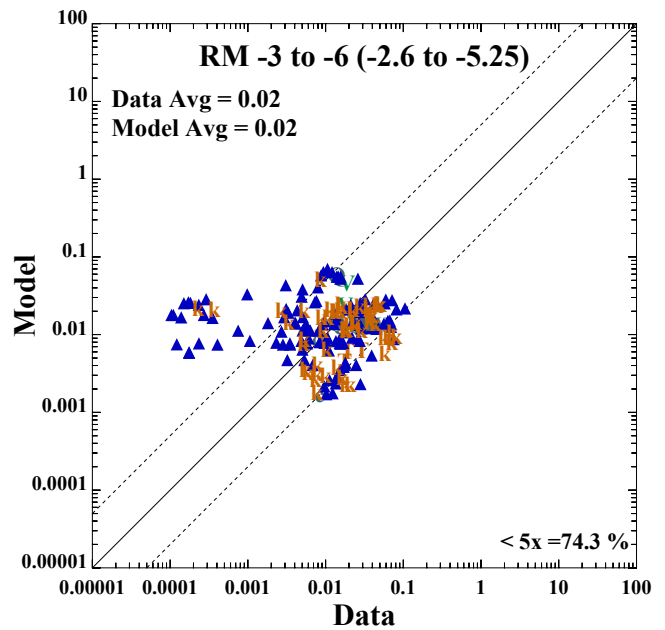
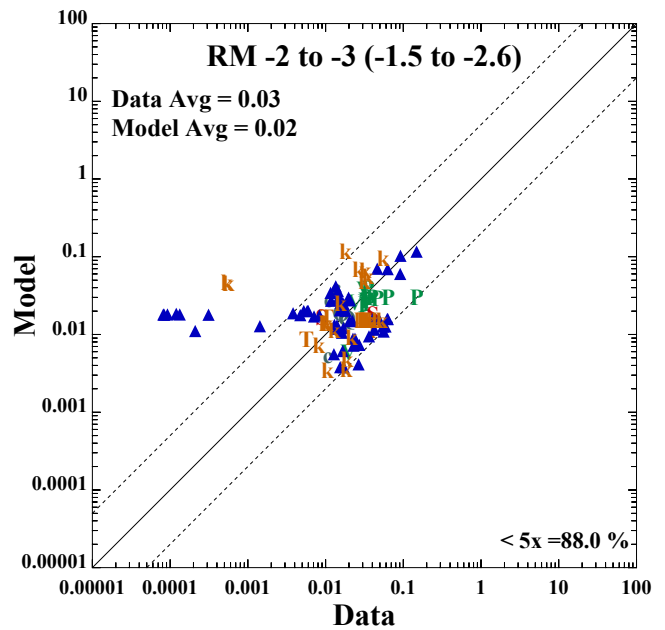
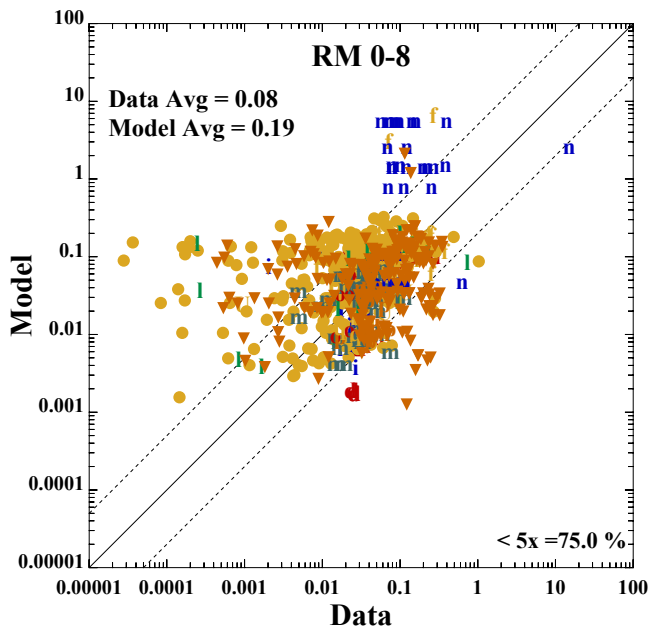
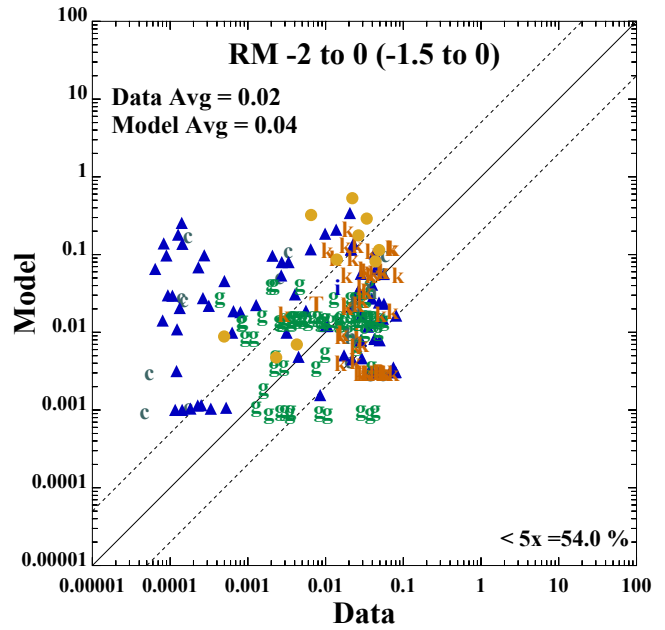
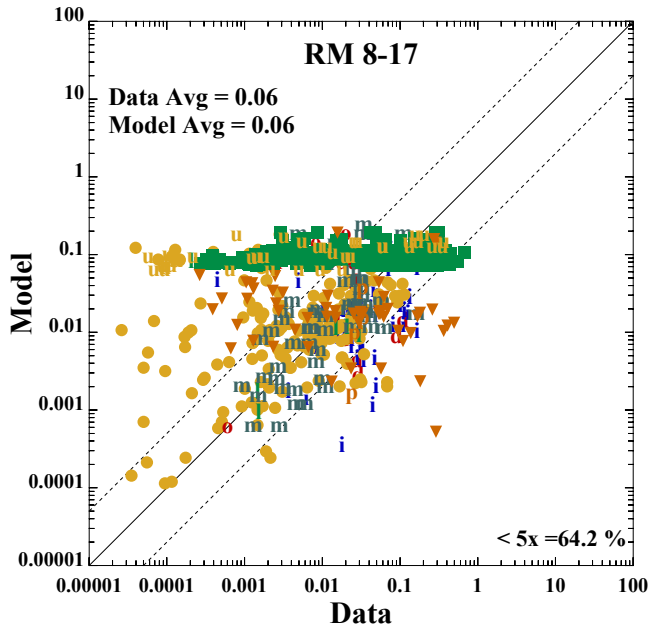
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- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

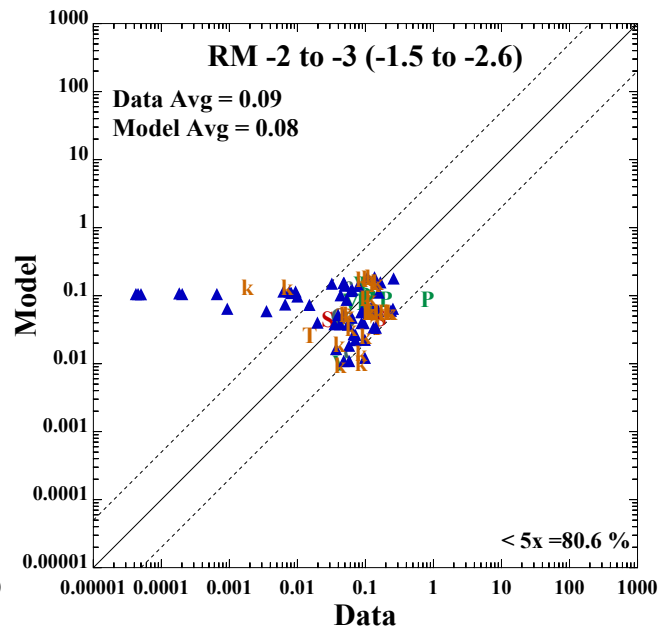
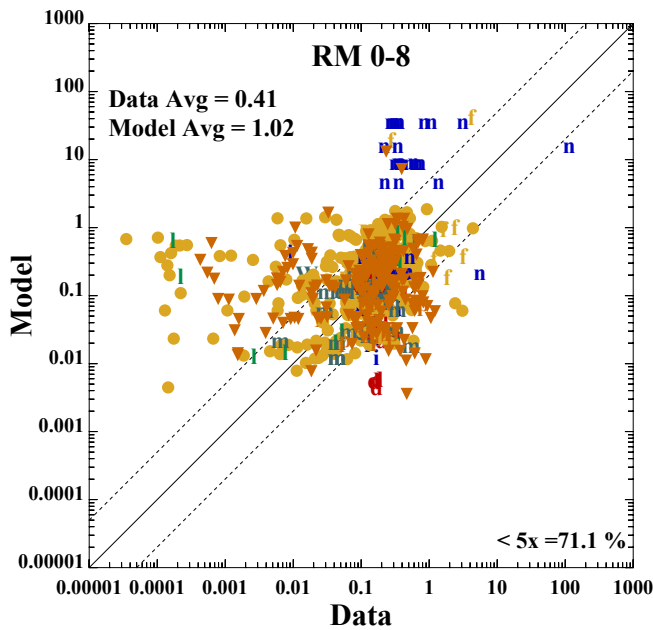
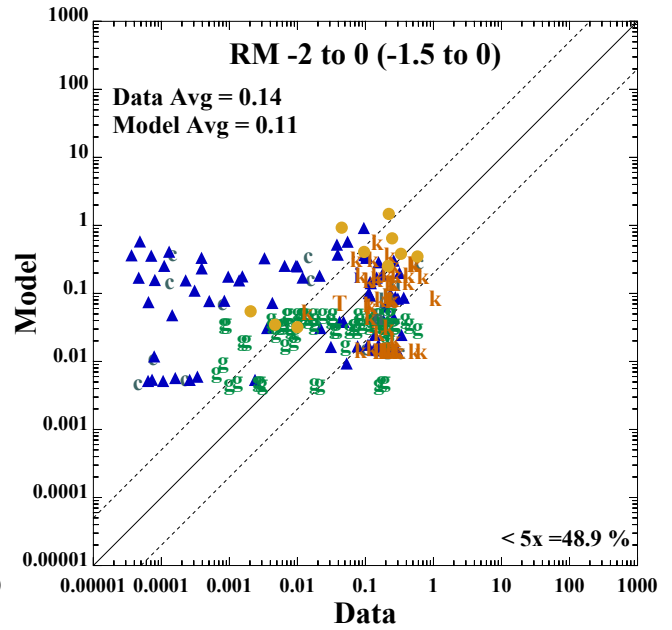
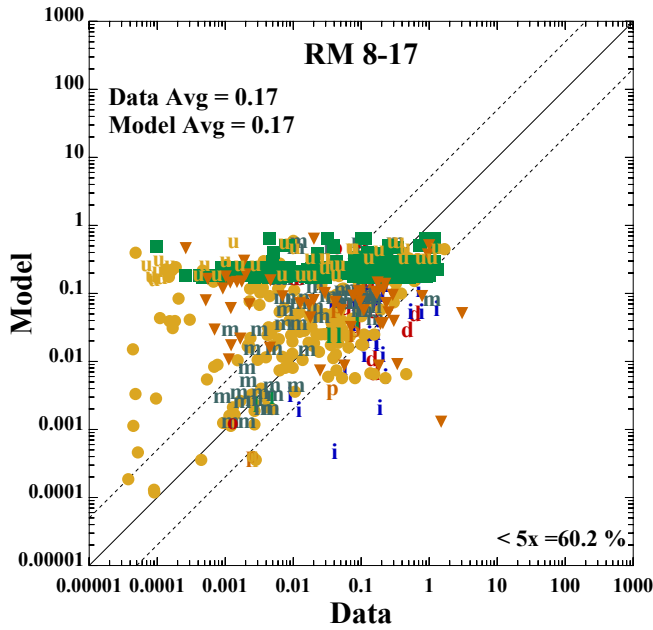


## All Layers 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

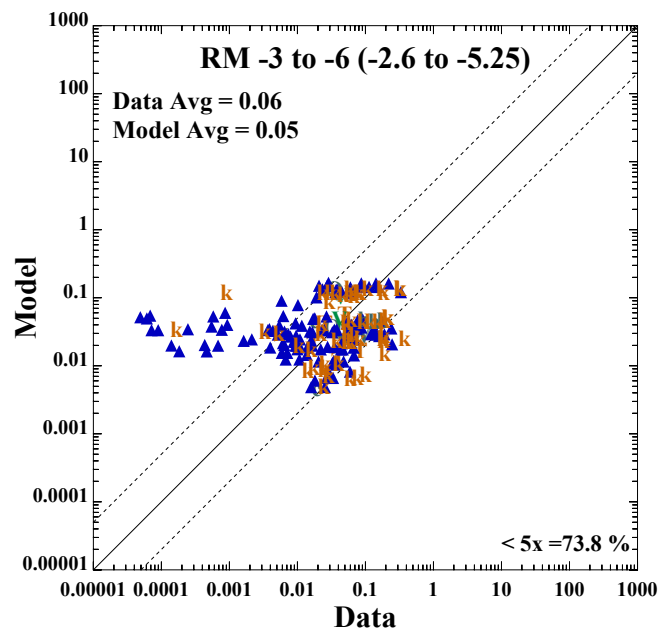


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- U 1999 Late Summer/Early Fall ESP Sampling Program
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

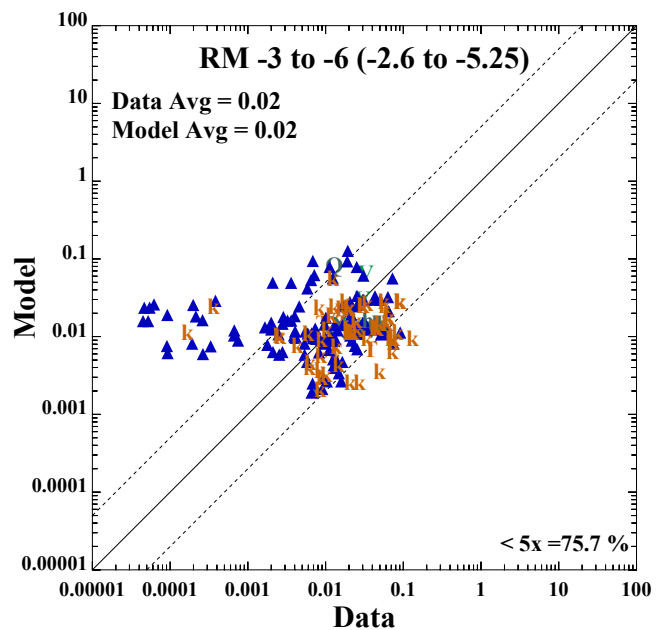
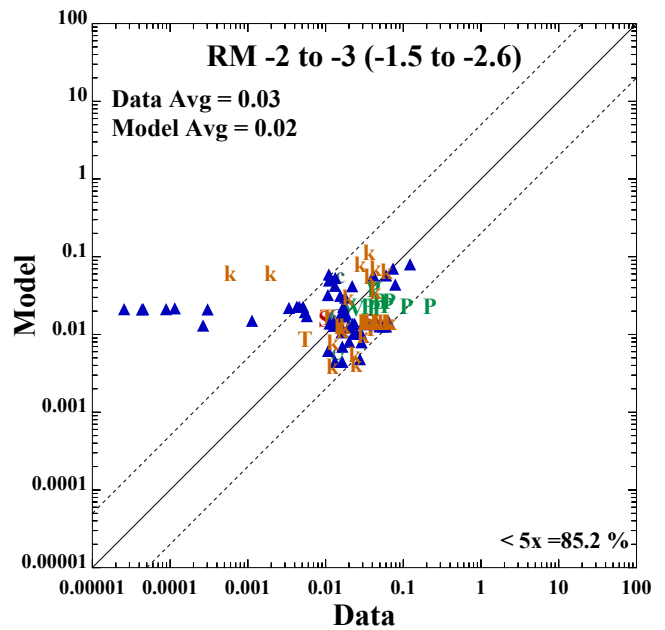
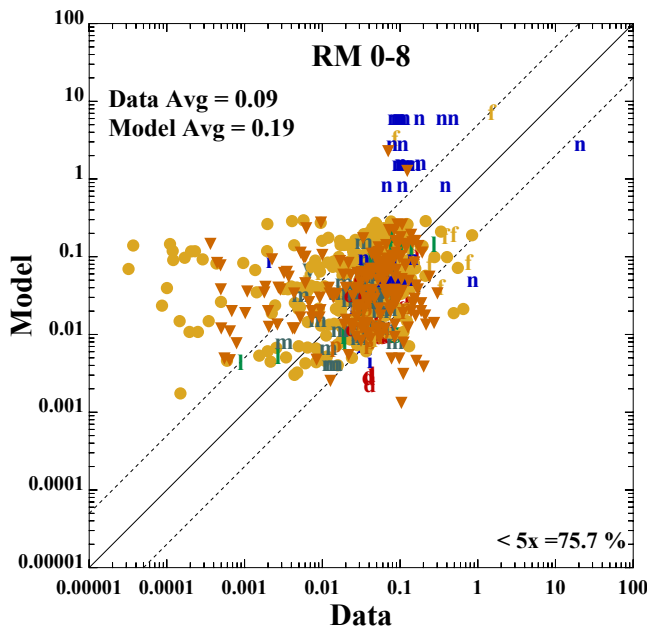
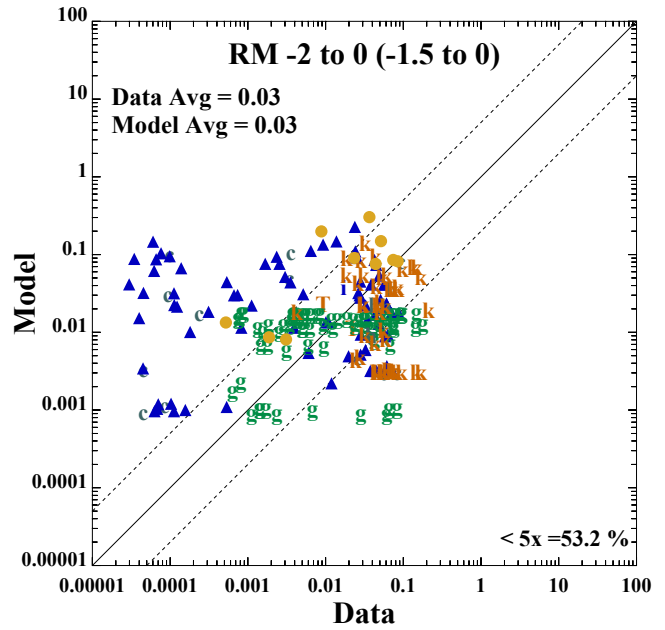
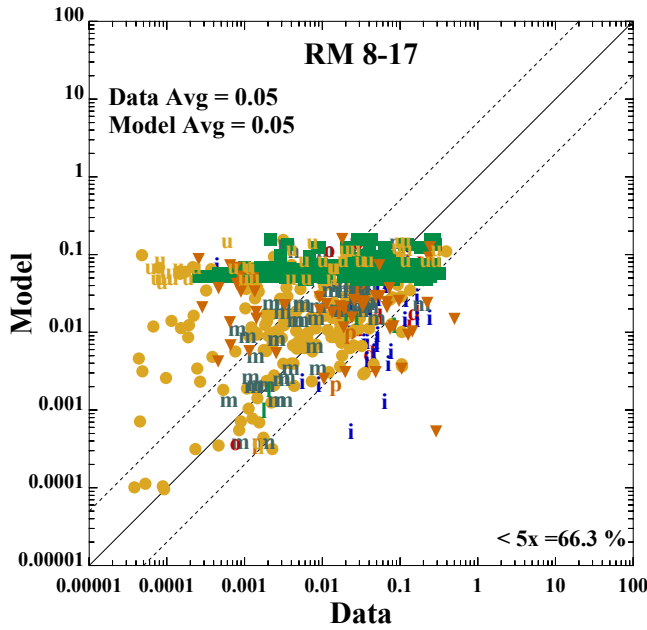
# All Layers 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background BenthicSediment
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- t 2012 CPG Background Benthic Sediment
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- u 2012 CPG River Mile 10.9 Data

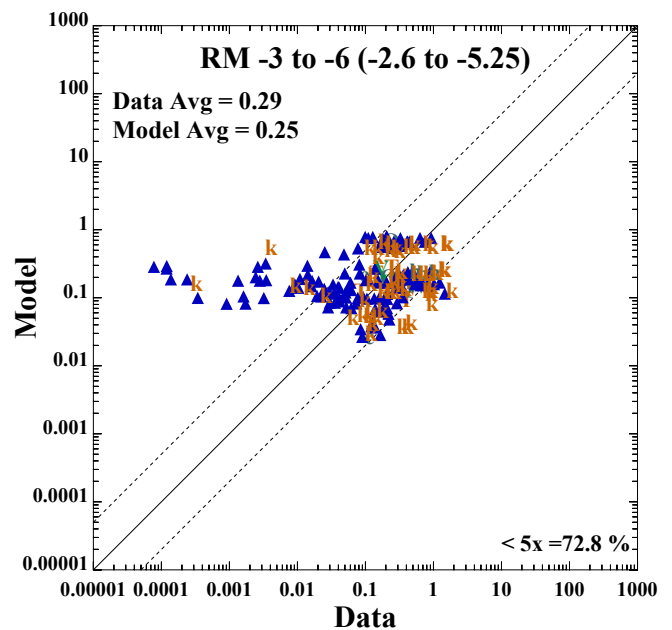
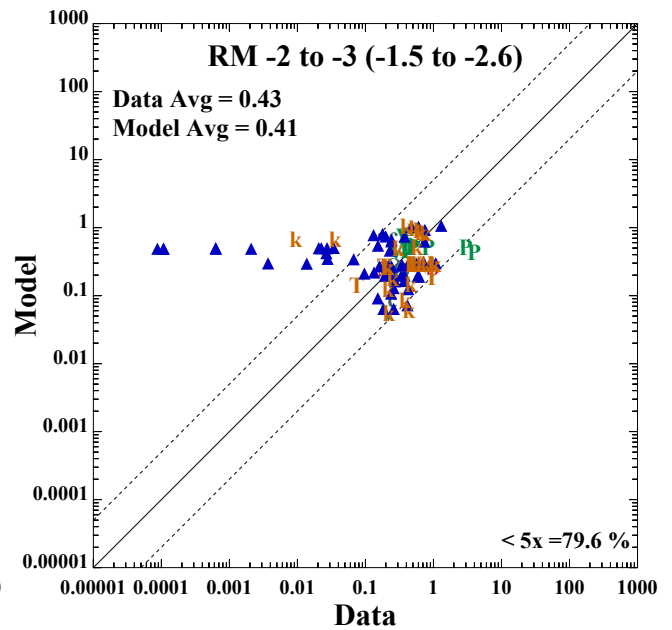
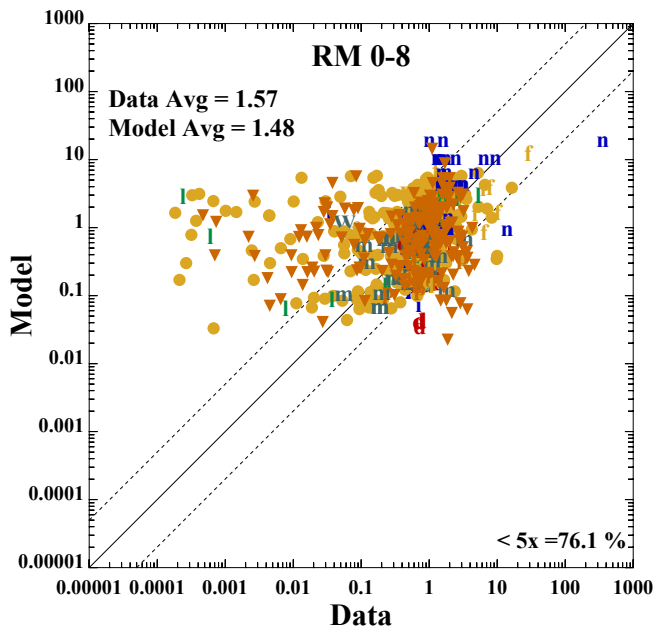
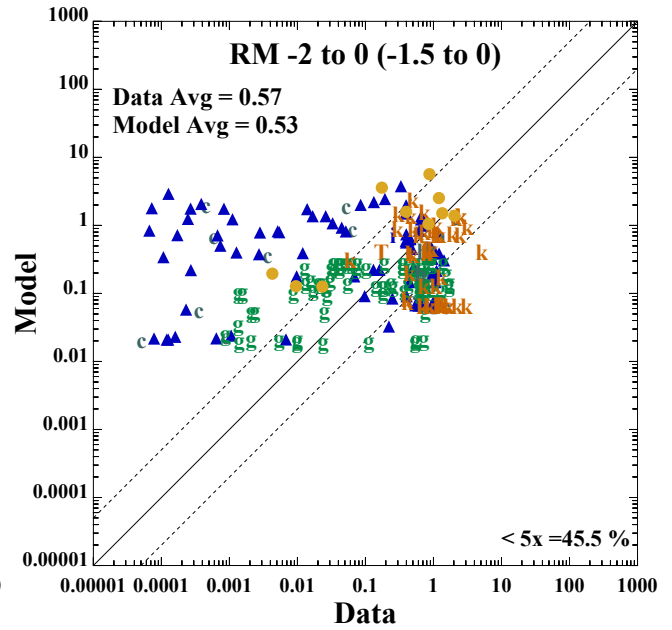
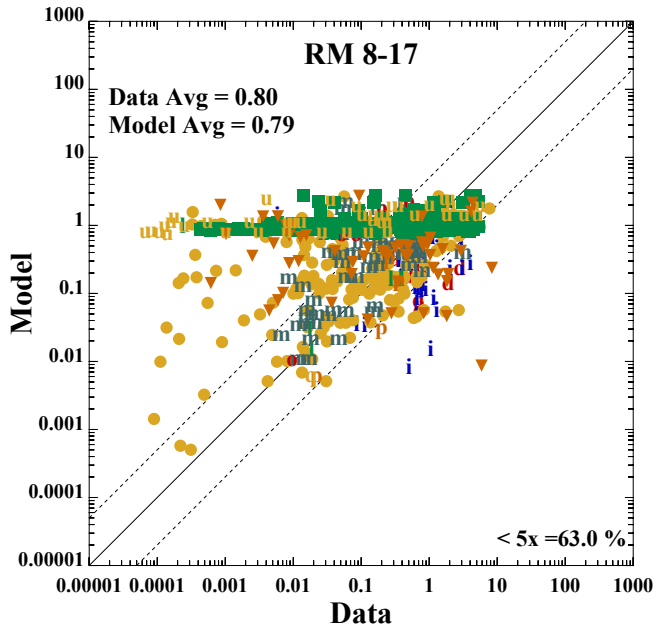


# All Layers 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



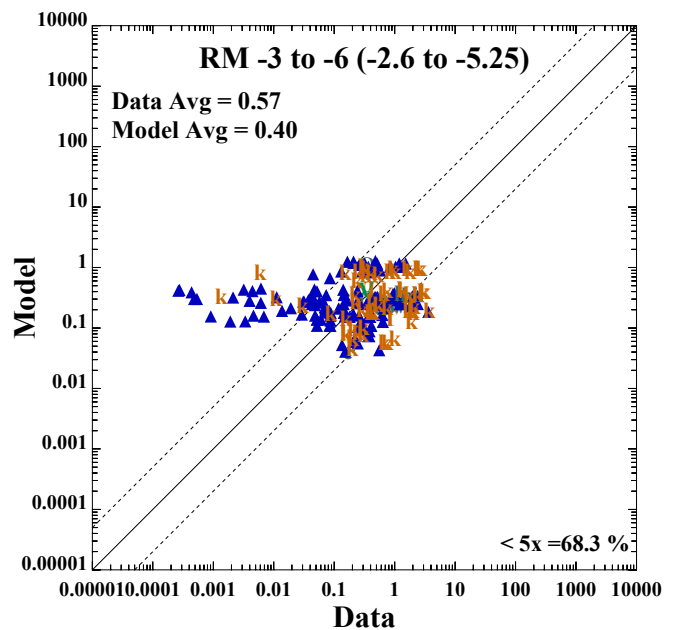
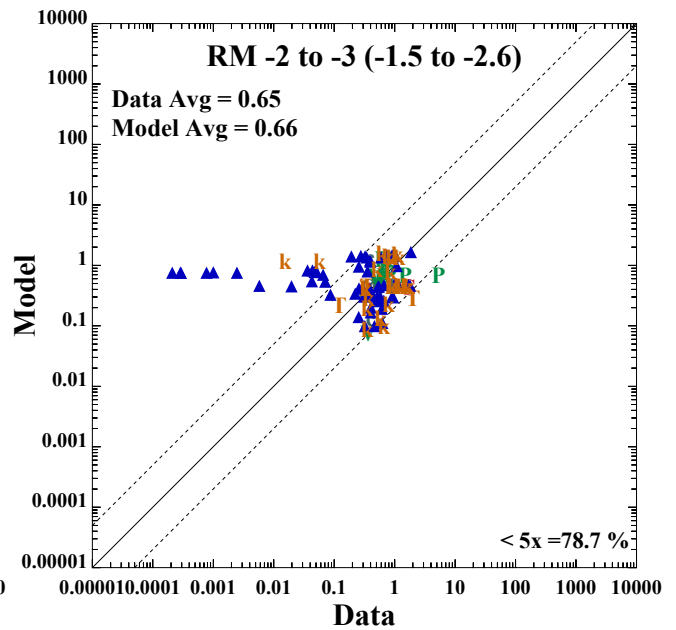
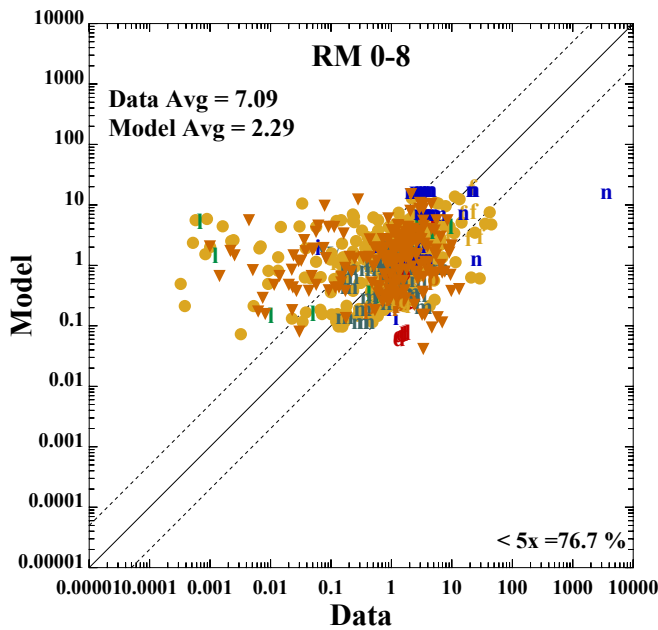
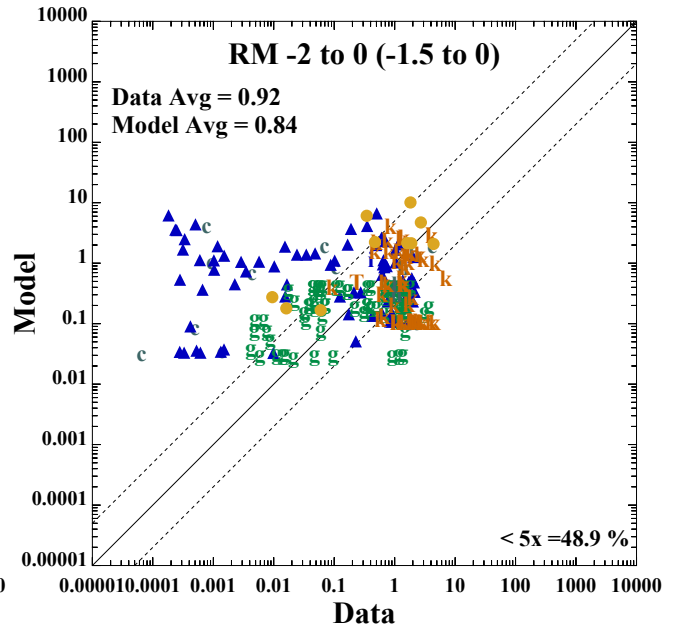
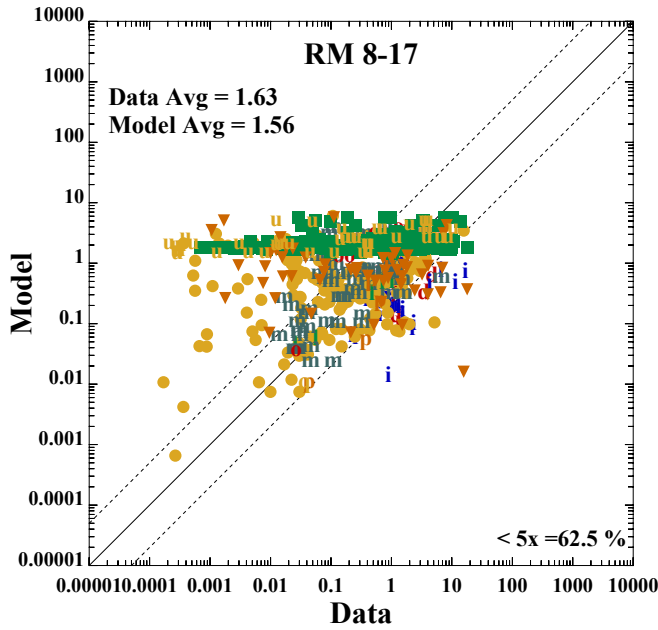
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



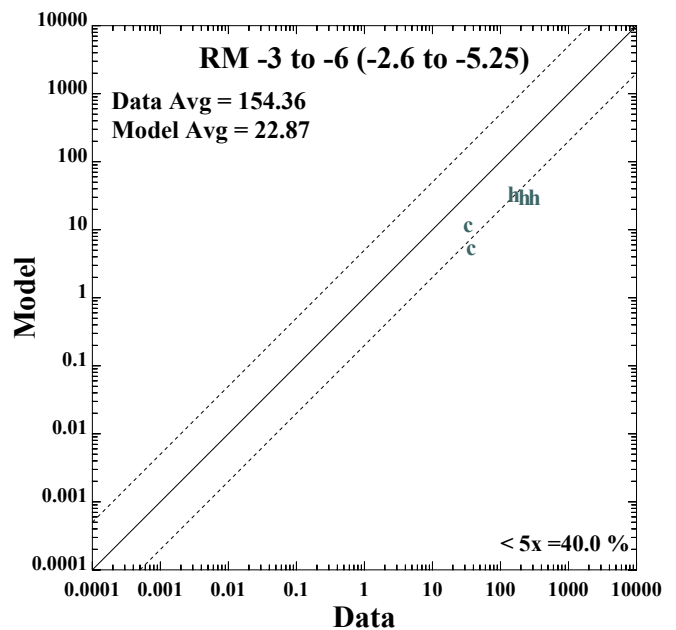
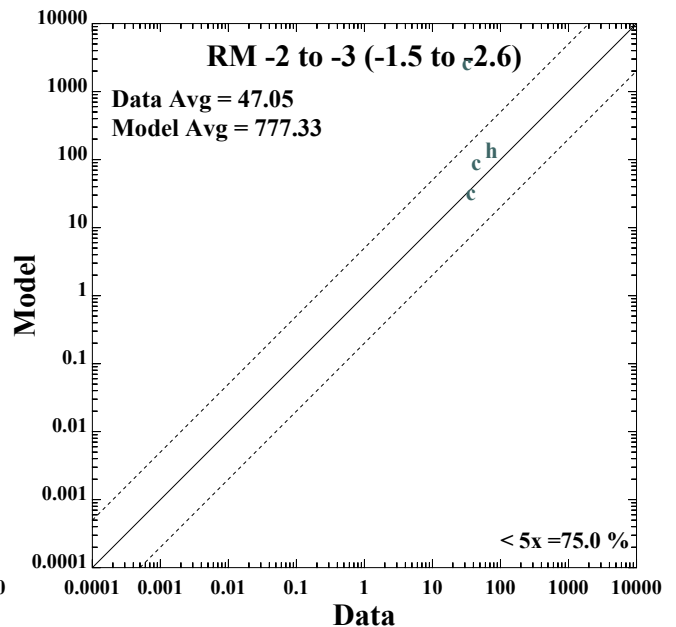
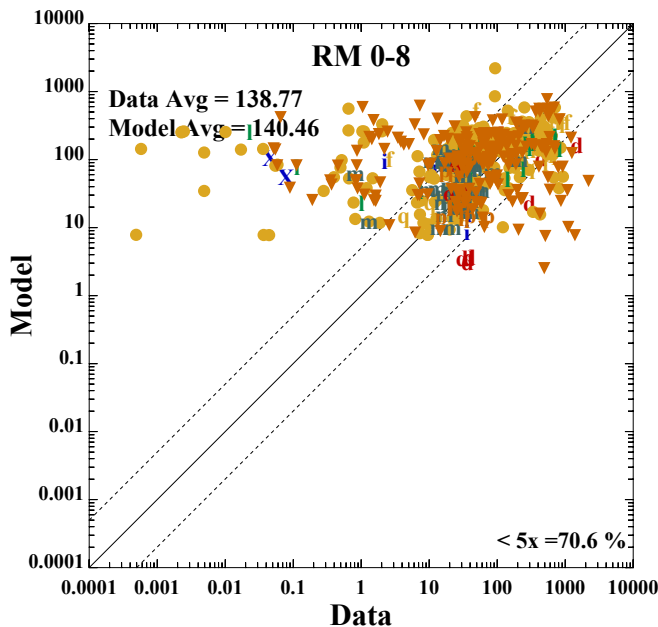
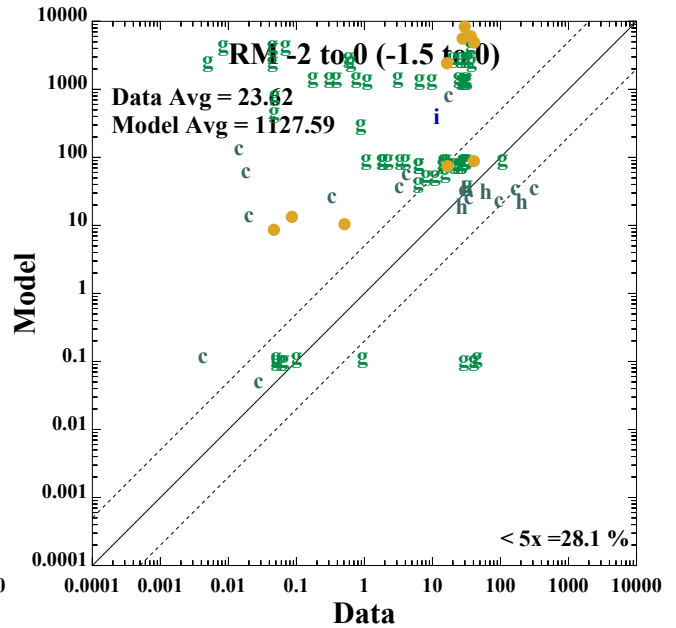
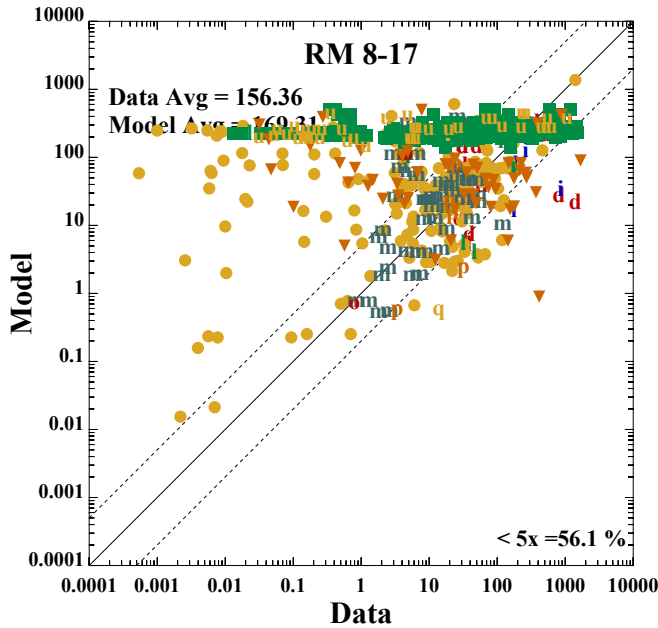
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers OCDF (ug/kg) (DIOXIN3)



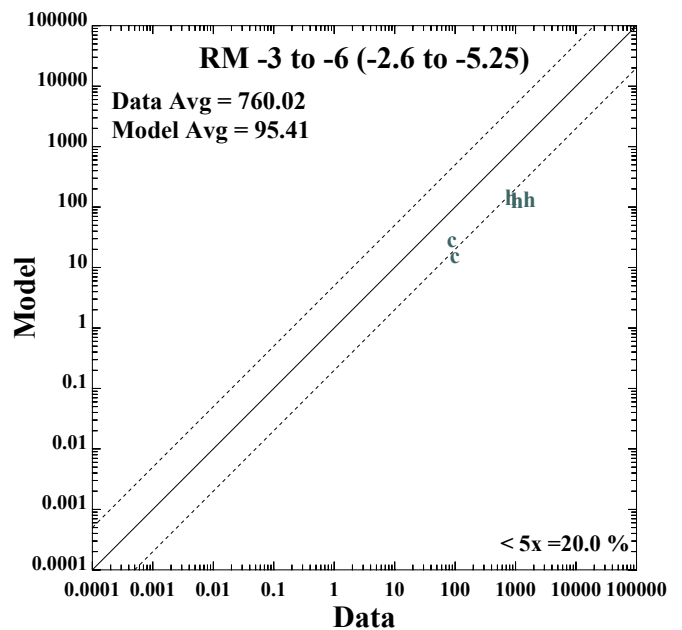
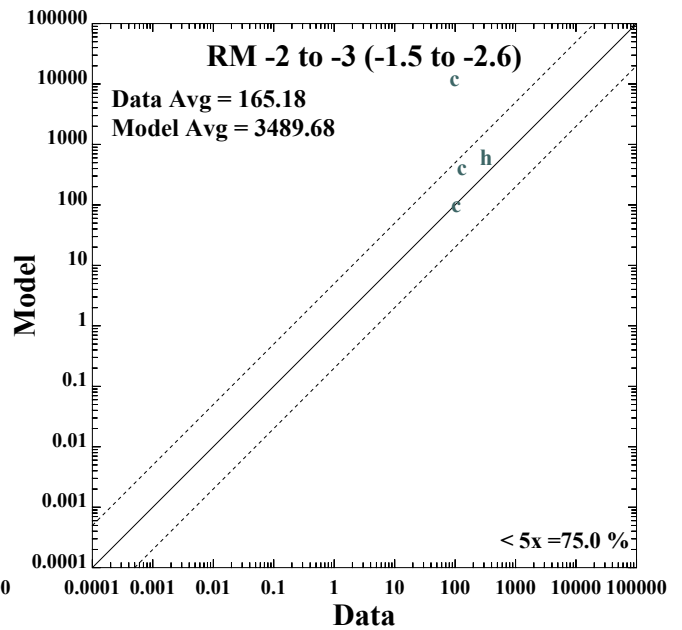
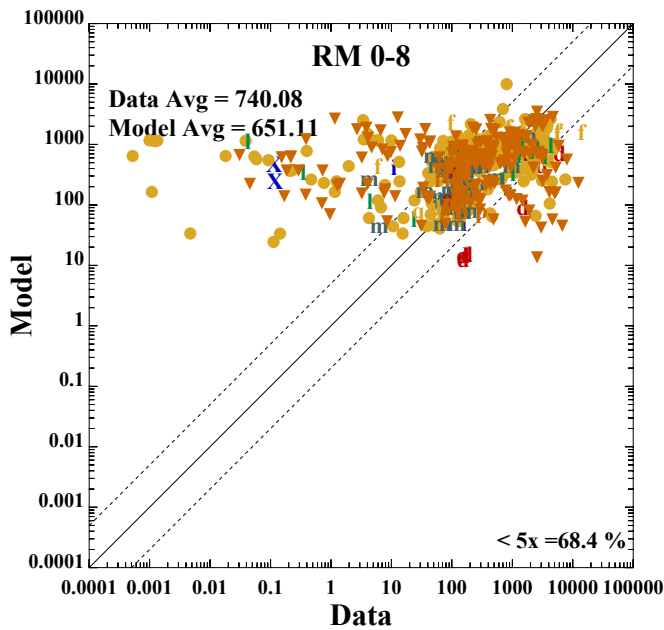
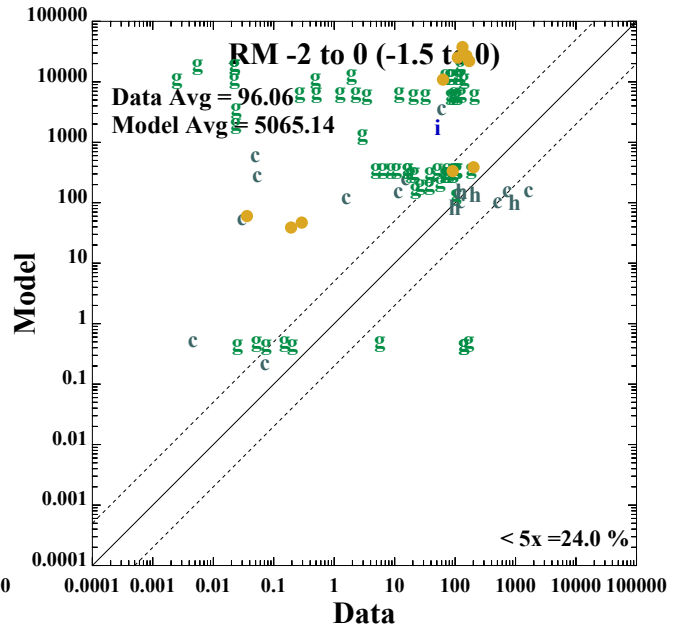
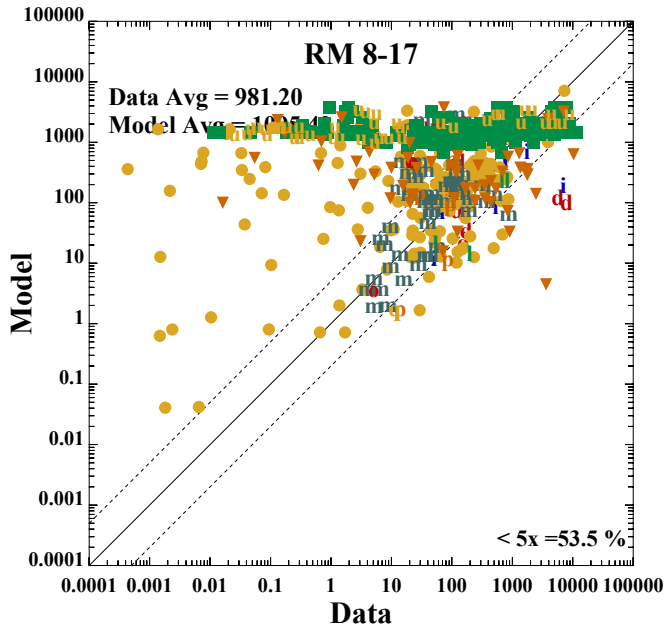
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
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- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



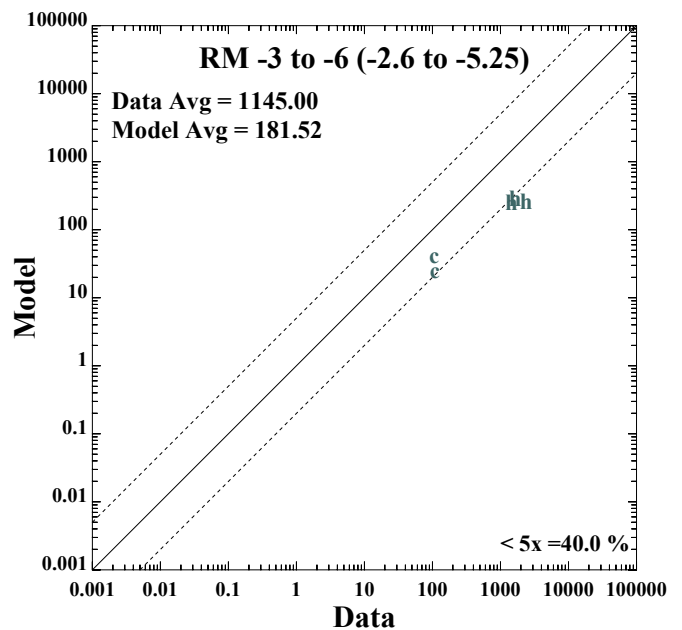
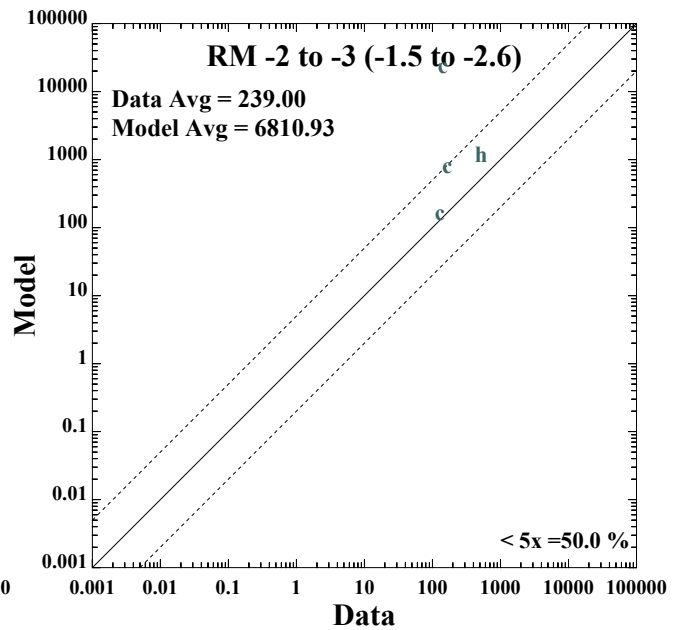
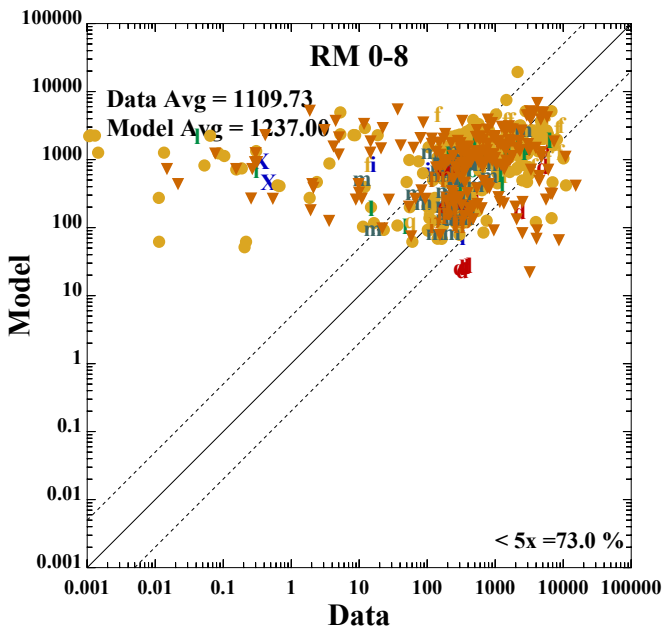
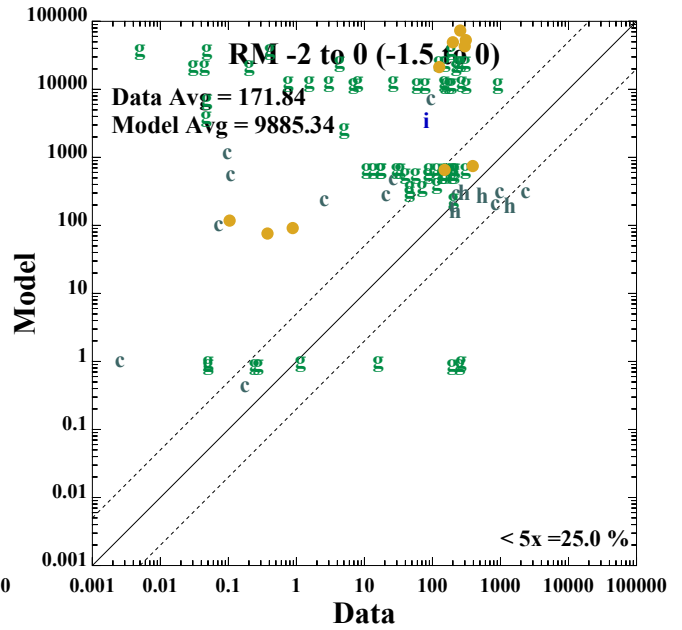
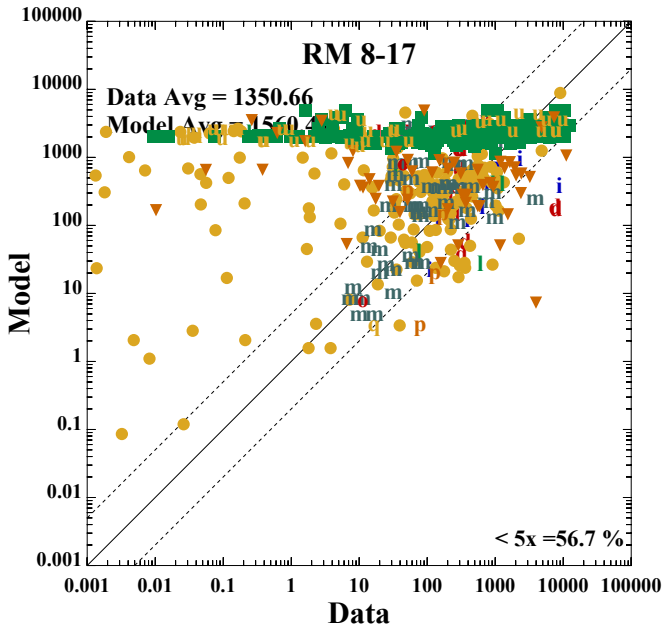
- P 1996 Newark Bay Reach A Sediment Sampling Program
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- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
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- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
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- 2008 CPG Low Resolution Sediment Coring
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- q 2010 USEPA-CDM Benthic Oversight
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- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

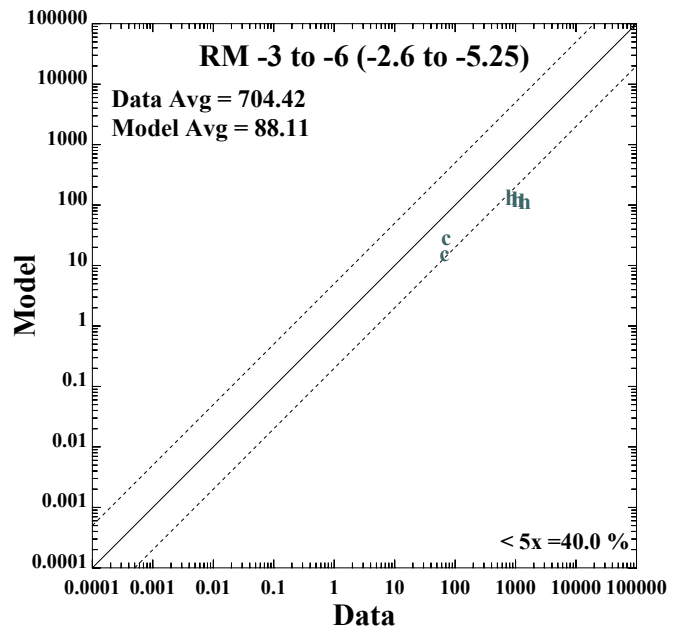
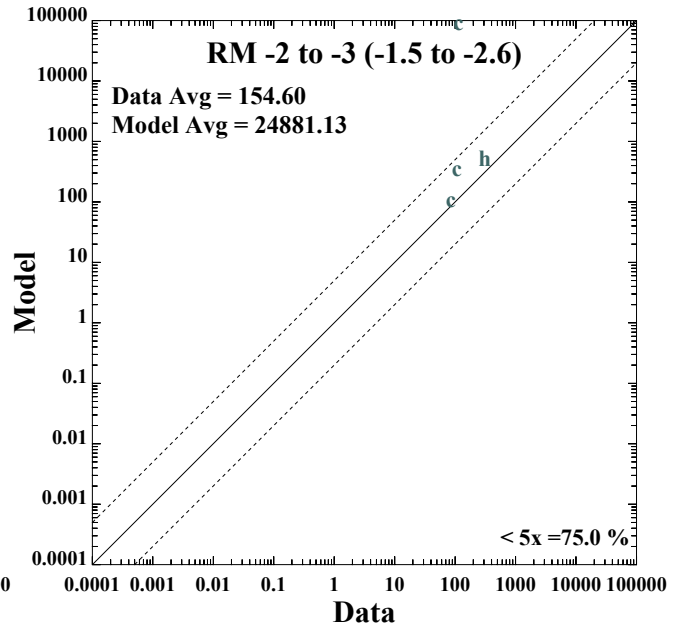
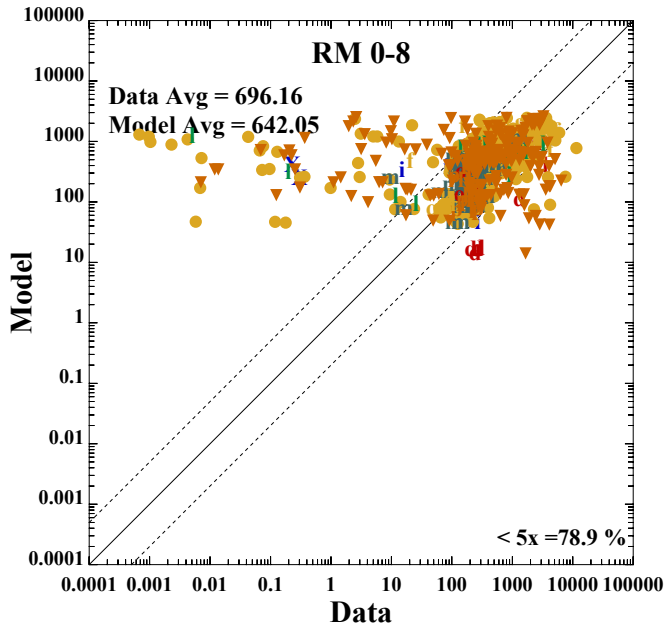
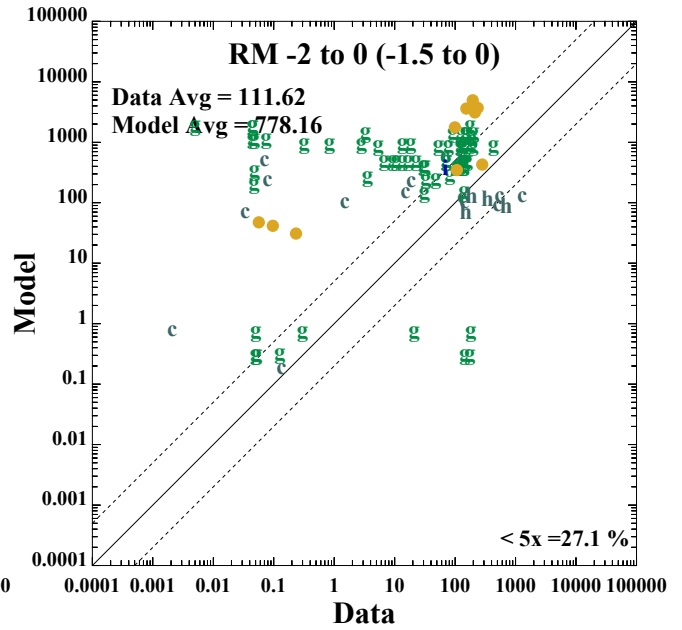
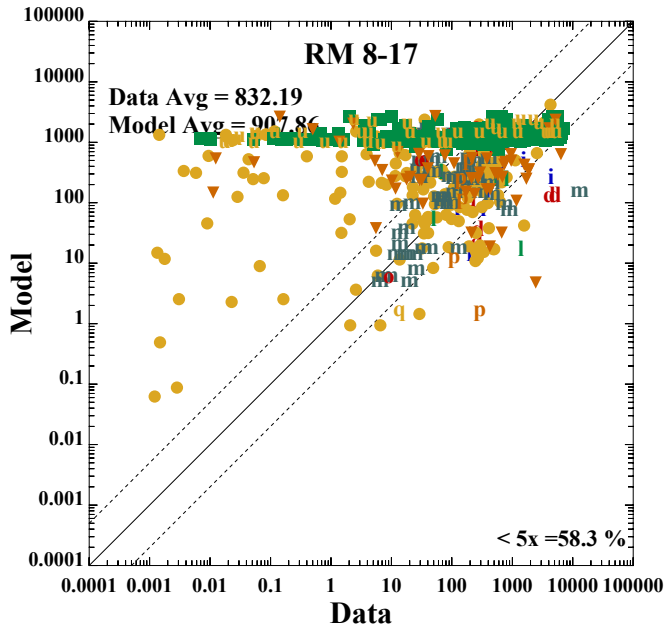
# All Layers PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



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- S 1998 Newark Bay Elizabeth Channel Sampling Program
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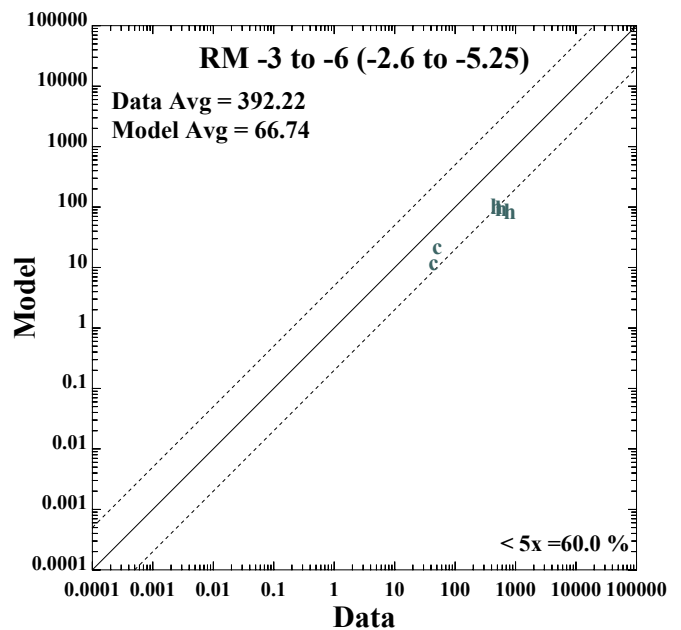
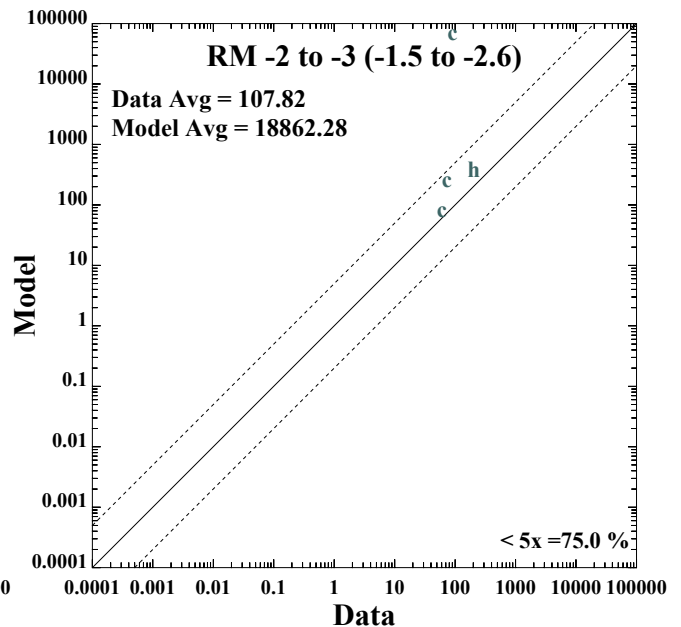
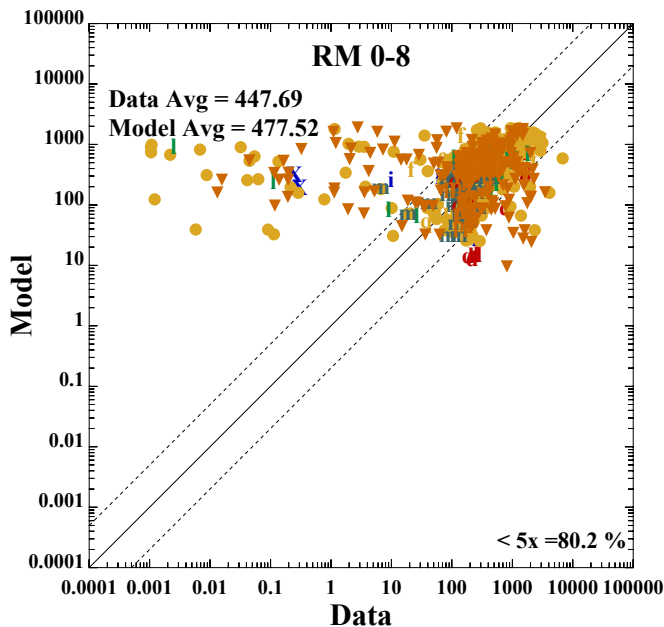
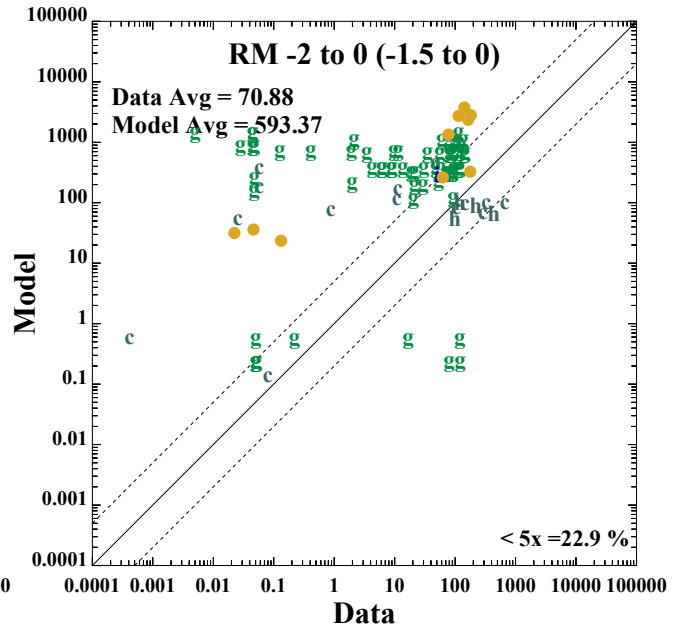
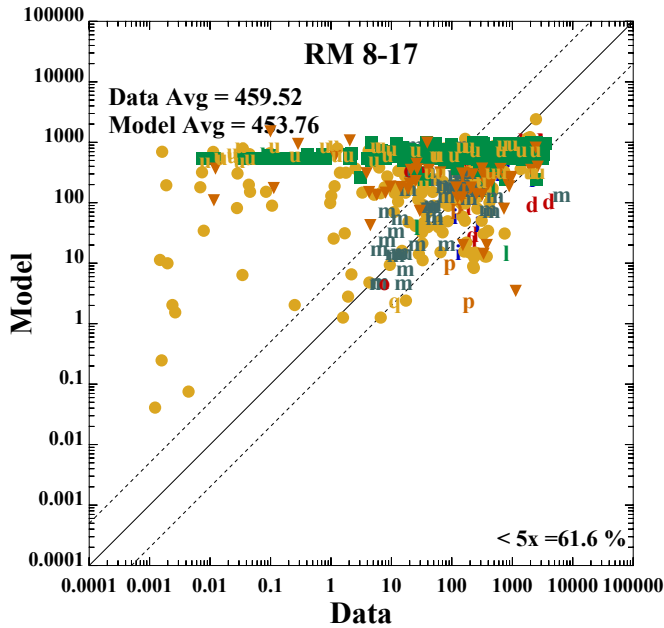


# All Layers PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



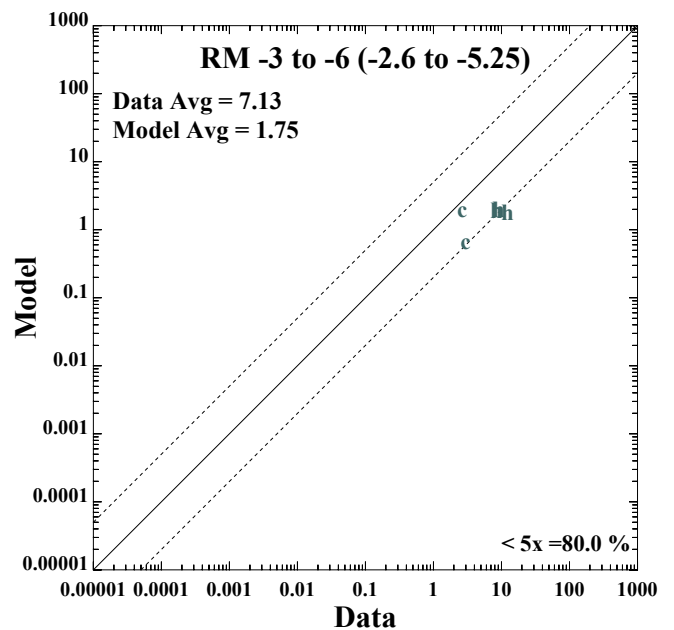
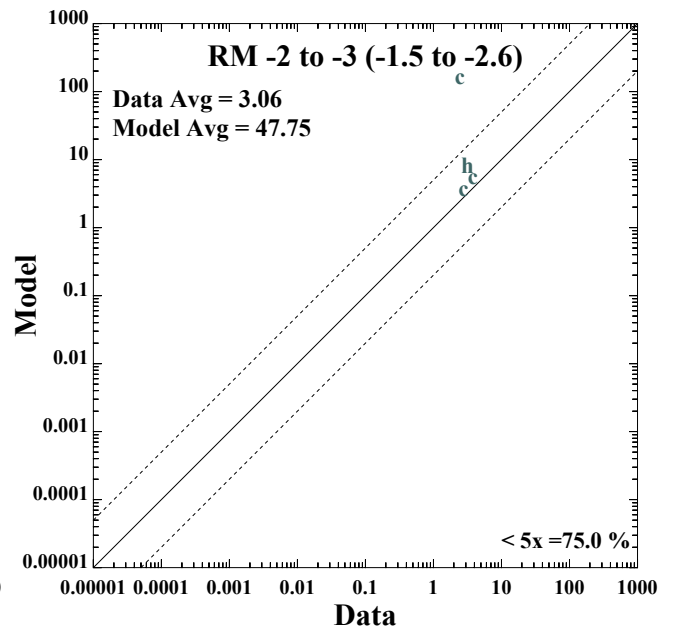
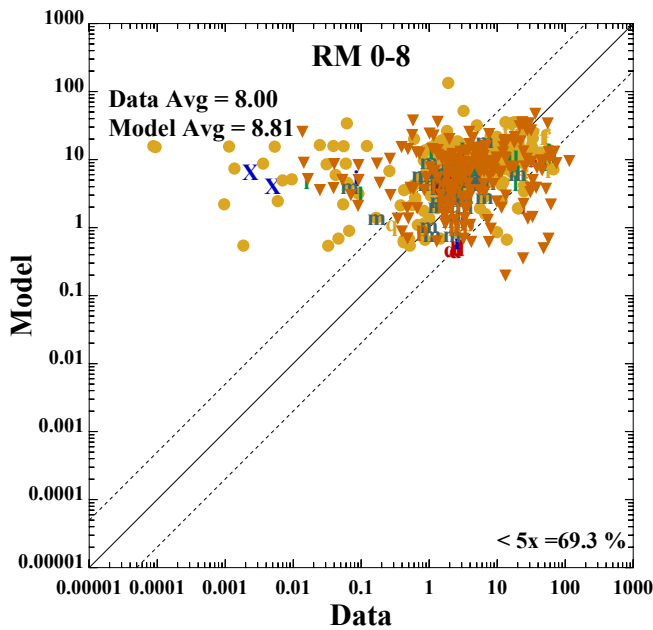
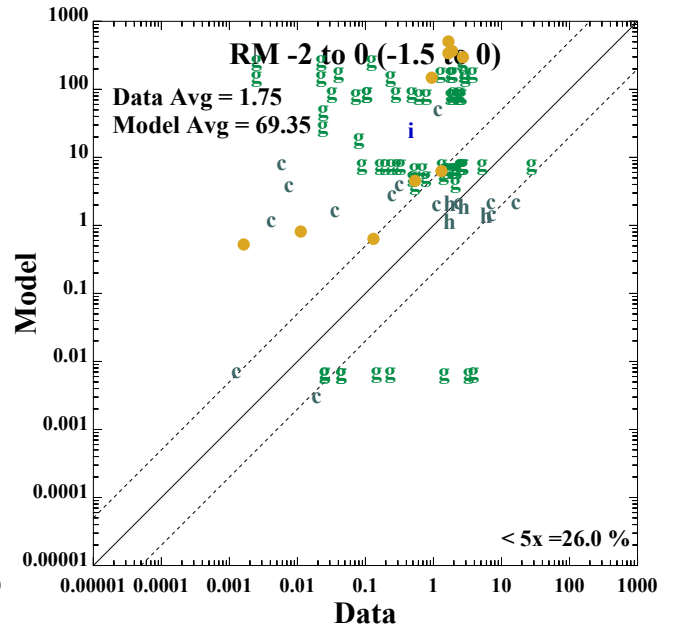
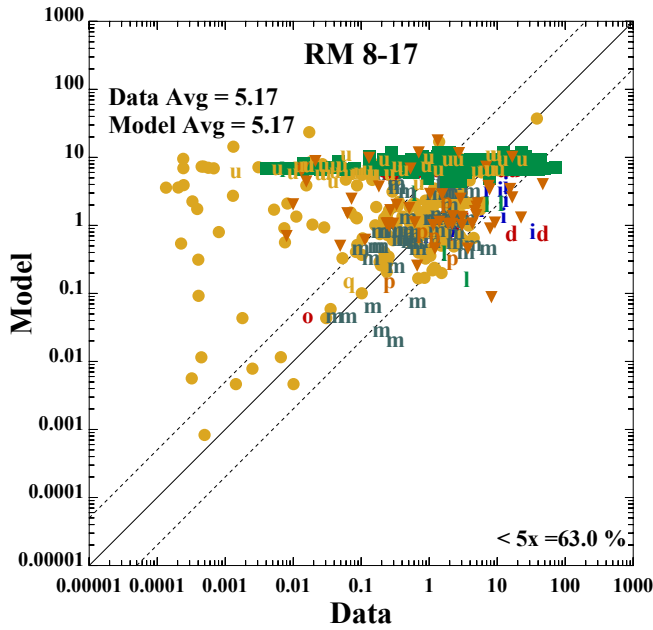
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



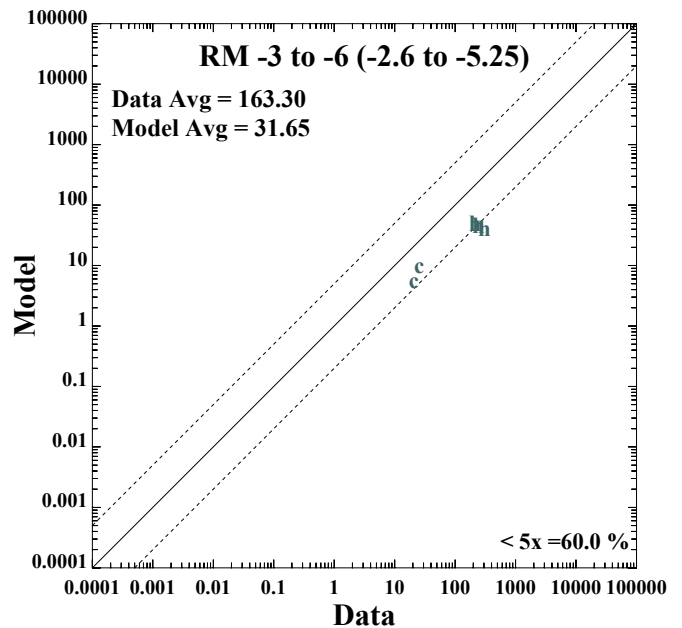
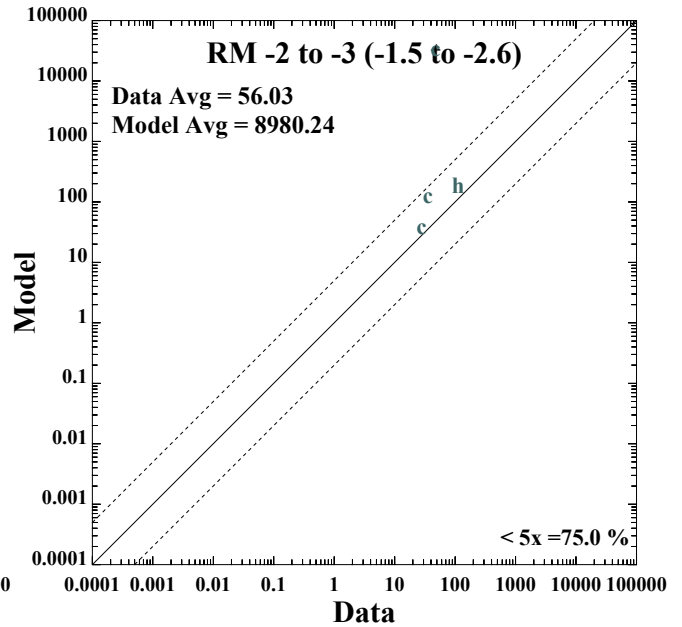
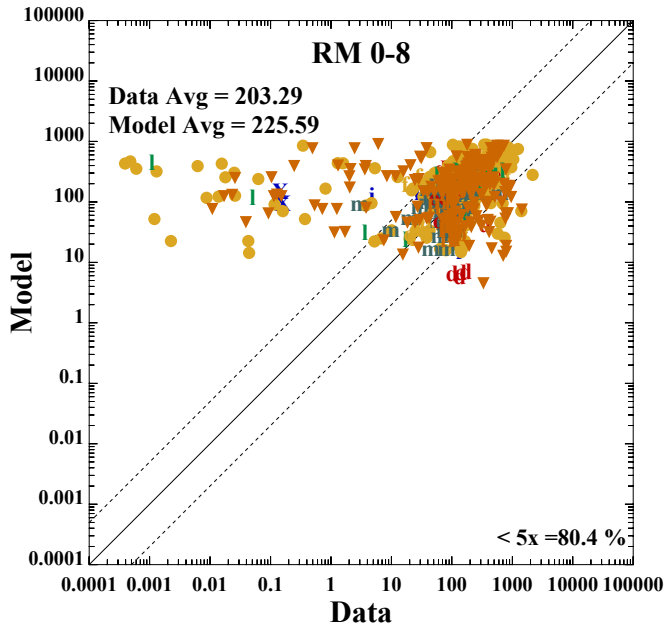
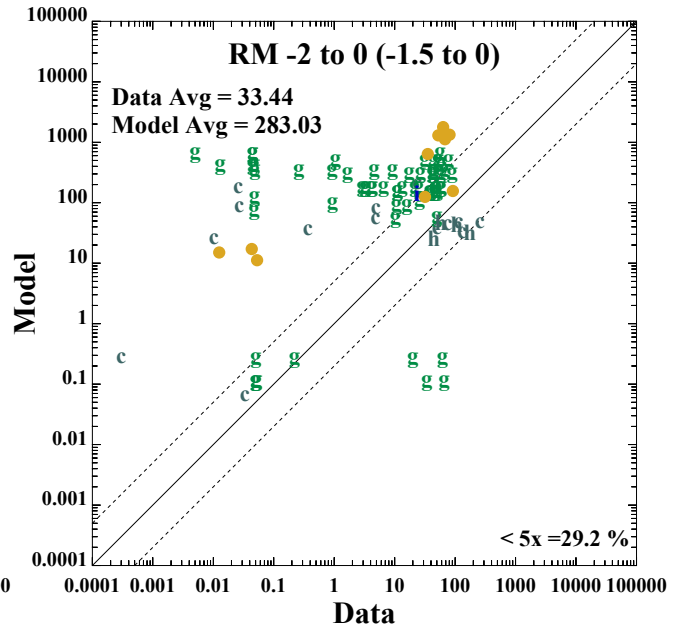
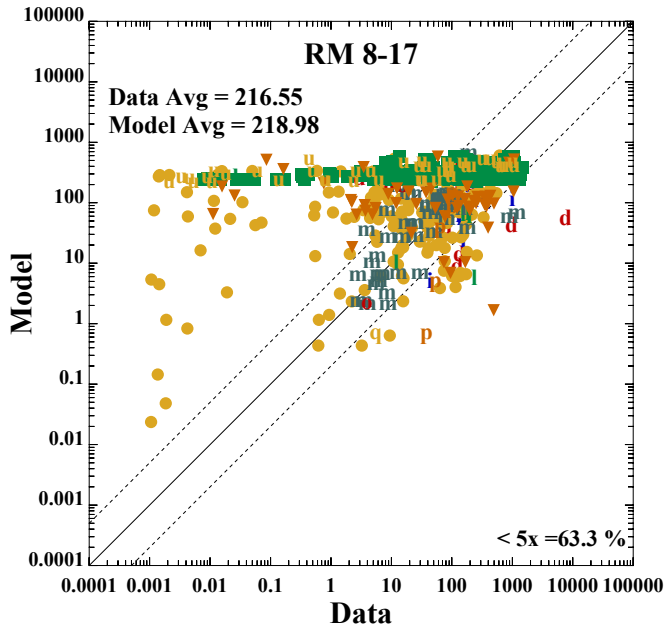
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



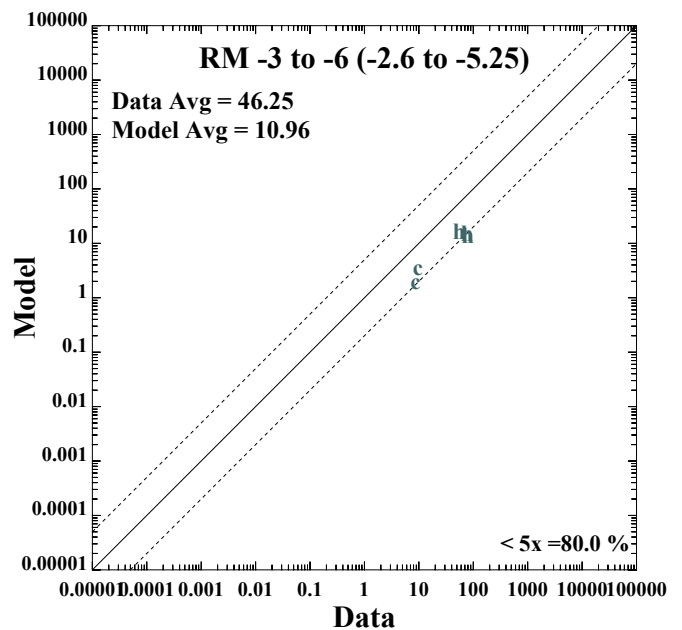
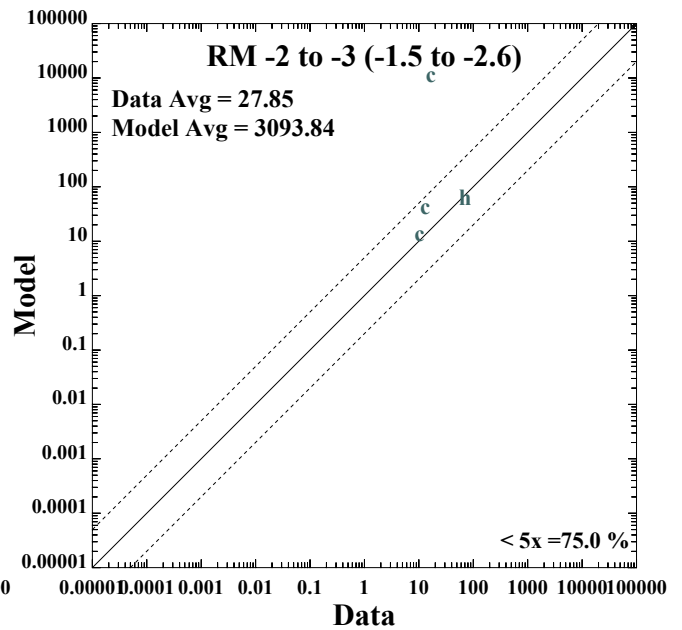
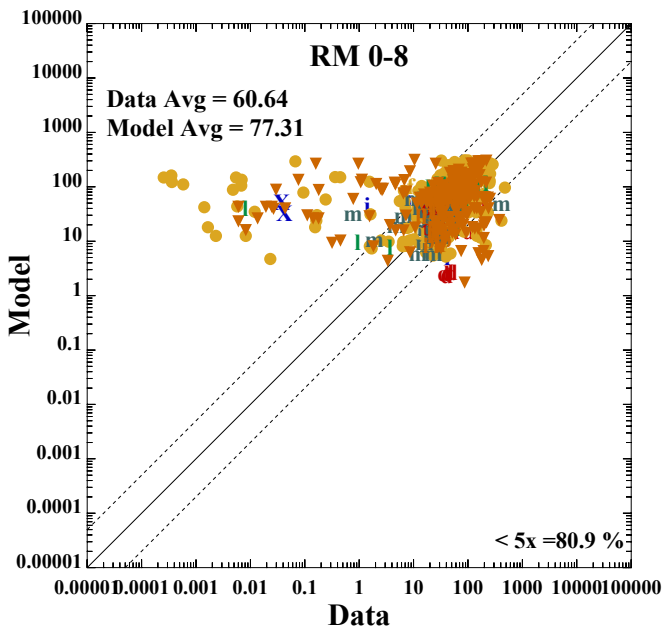
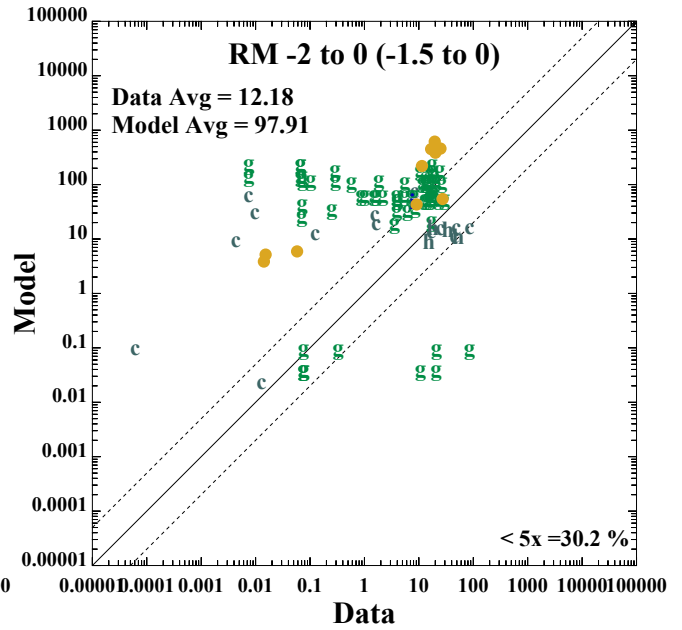
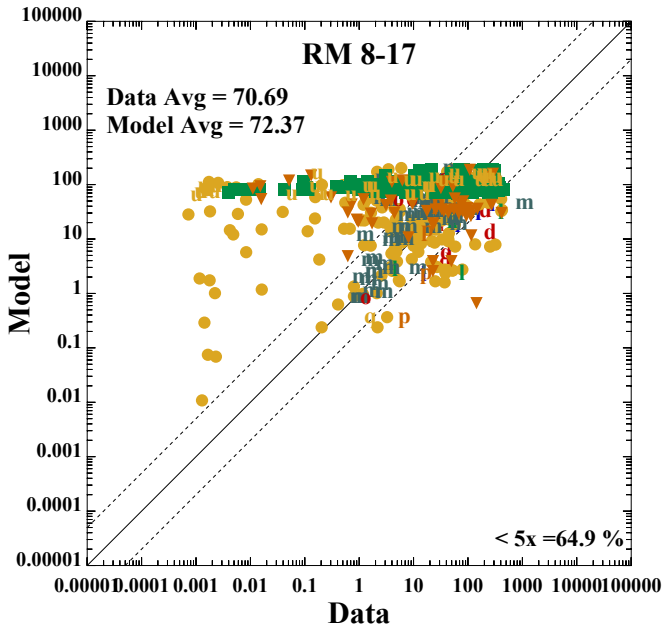
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



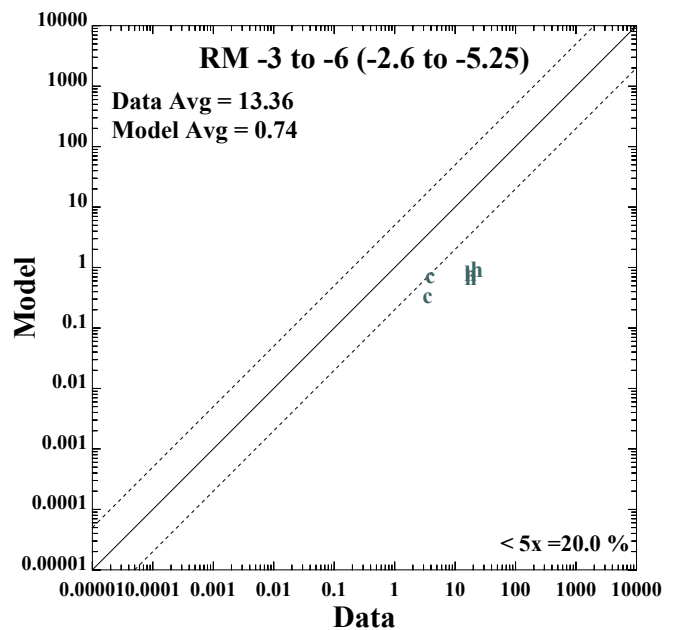
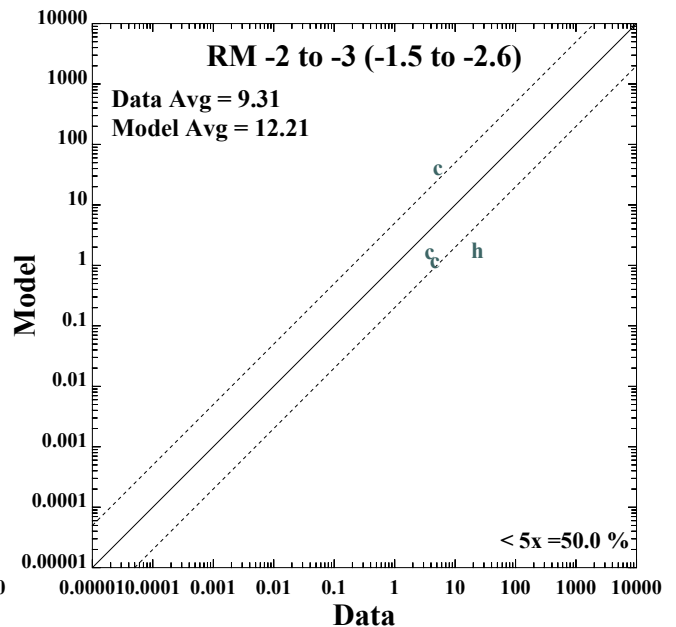
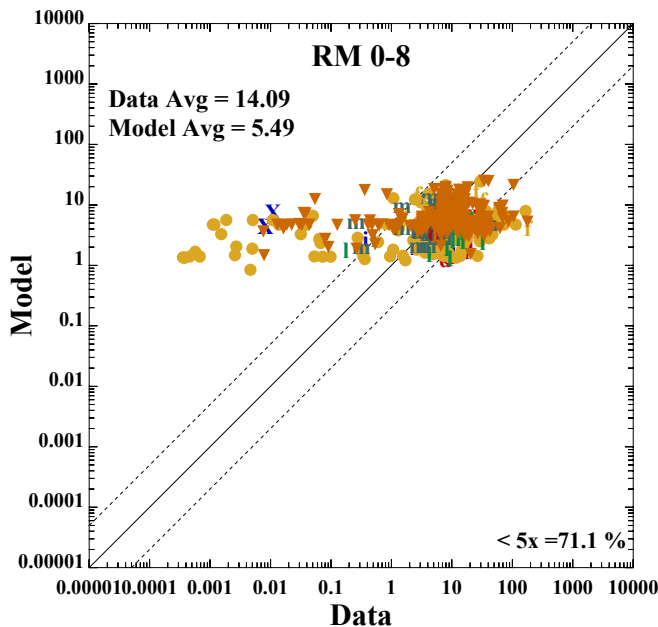
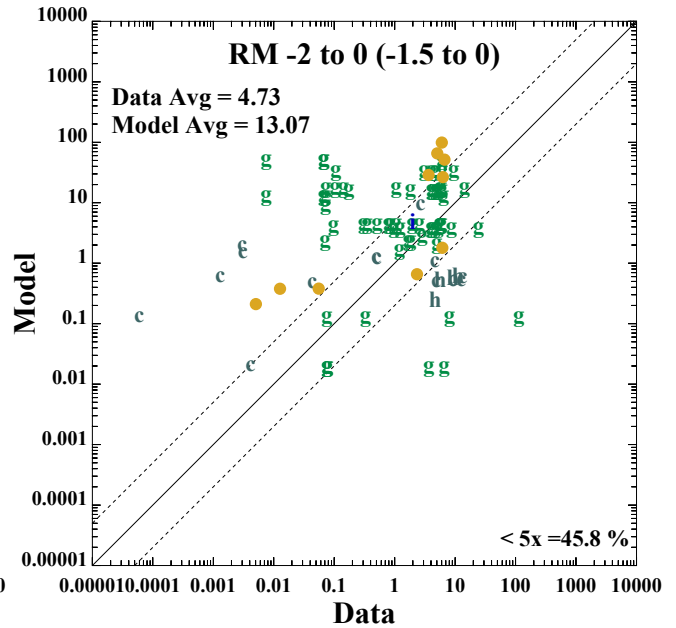
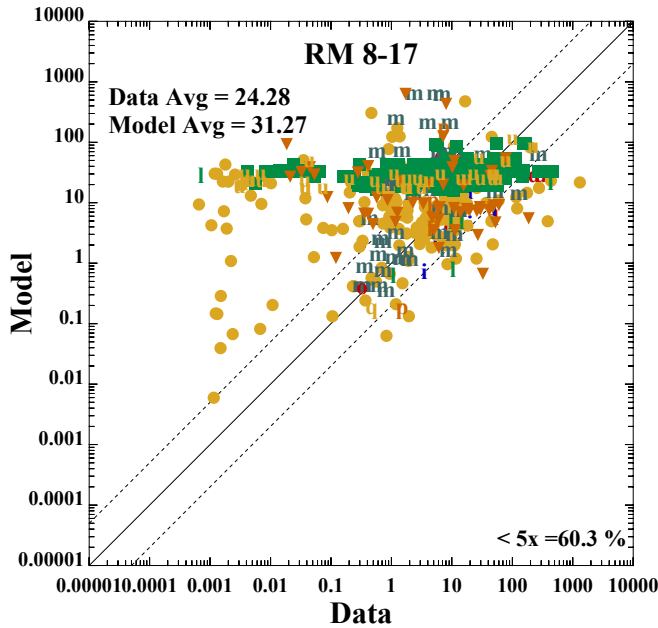
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- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- Y 1999/2000 Minish Park Monitoring Program
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



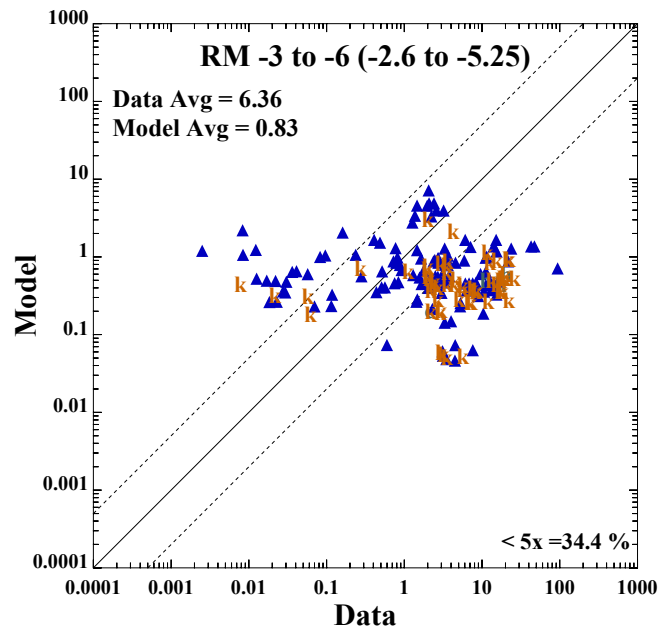
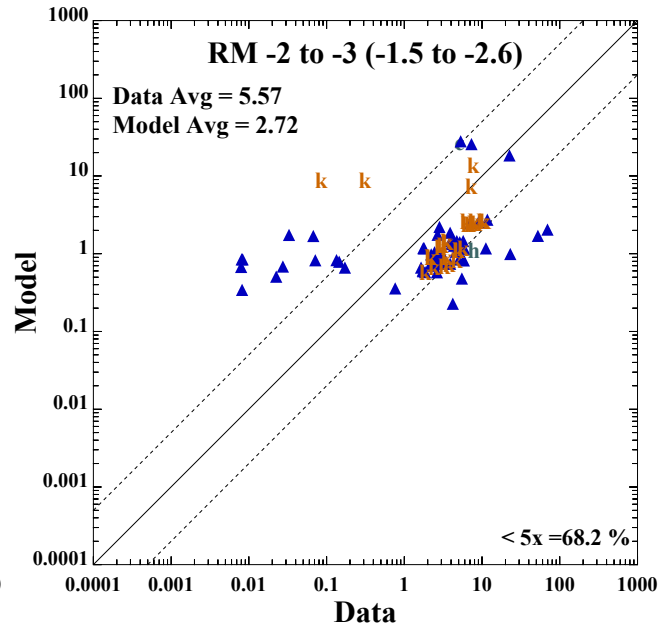
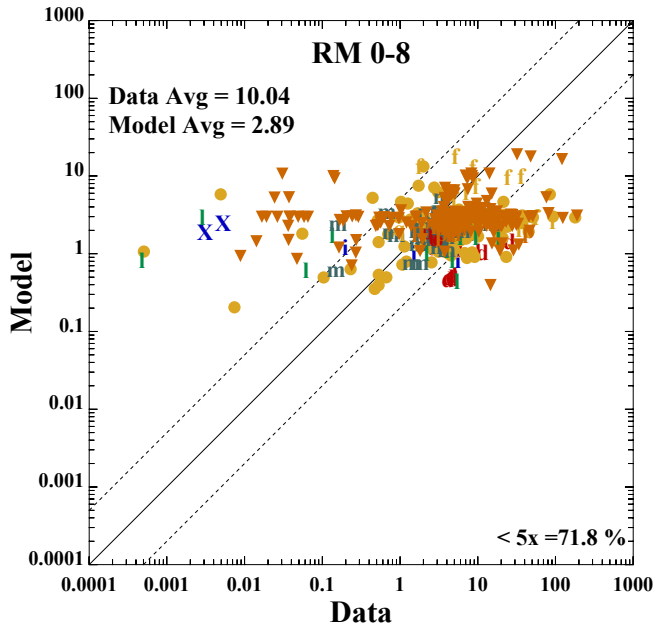
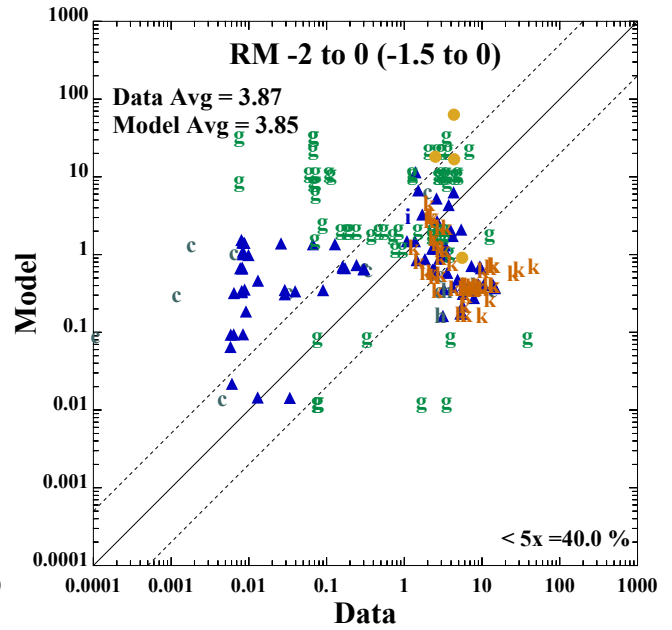
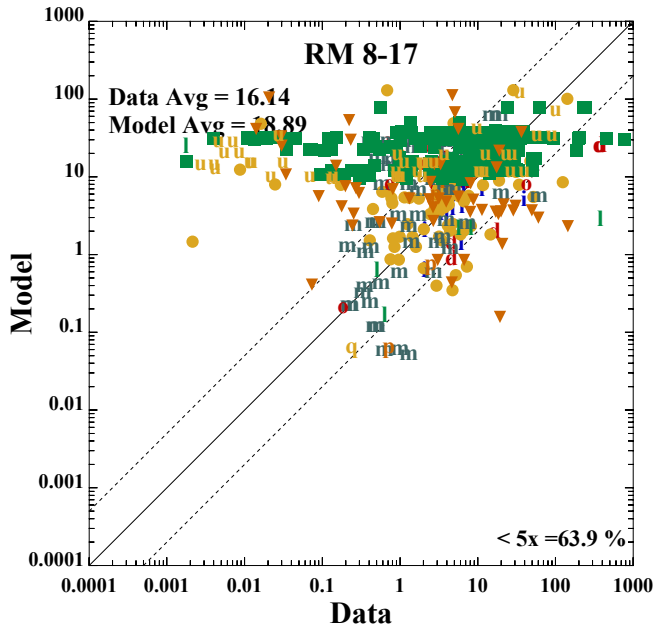
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



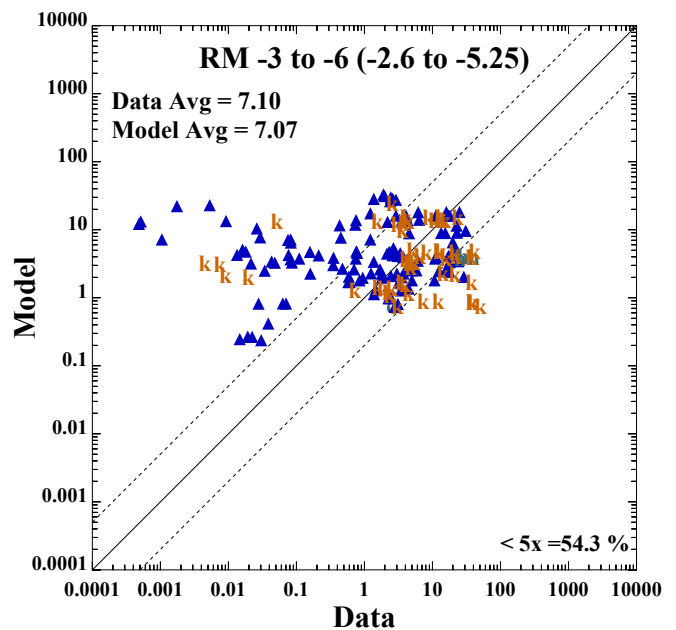
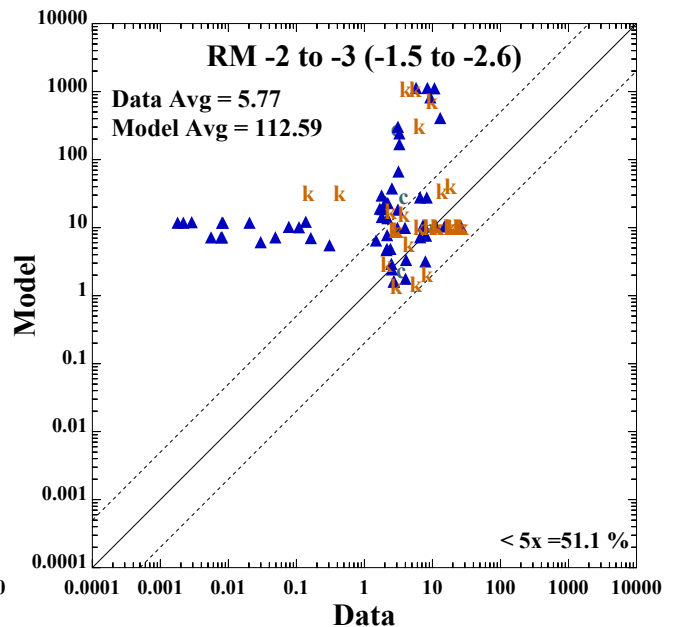
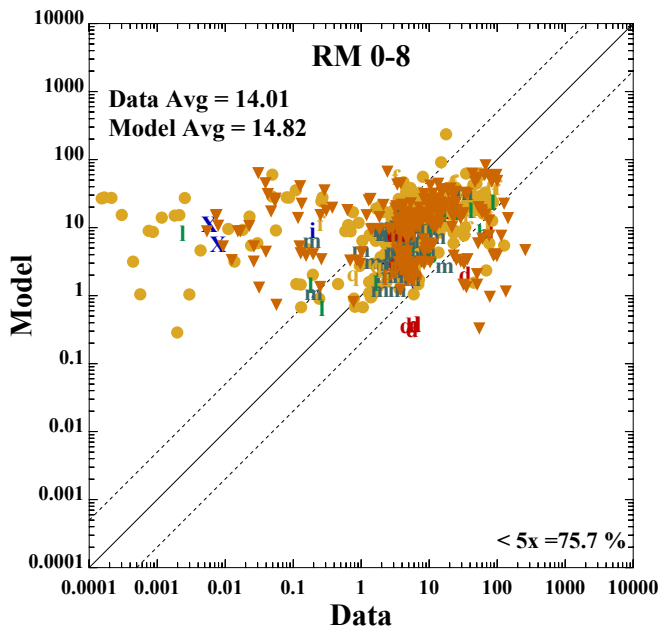
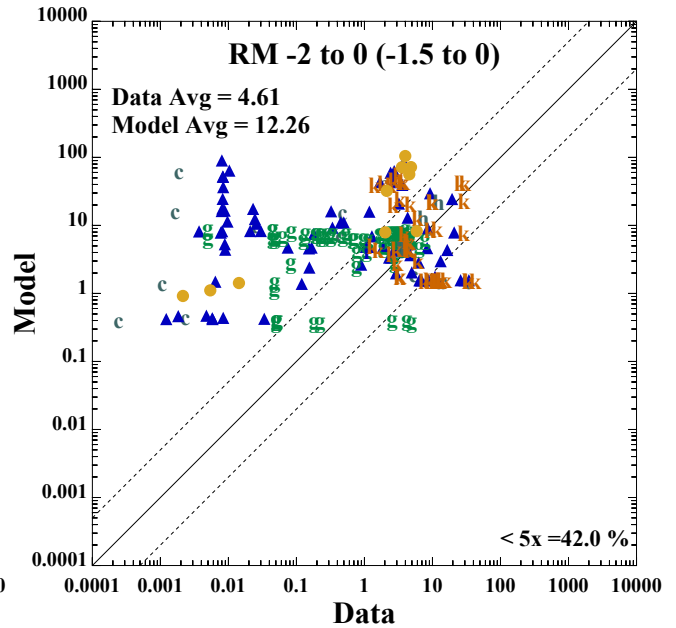
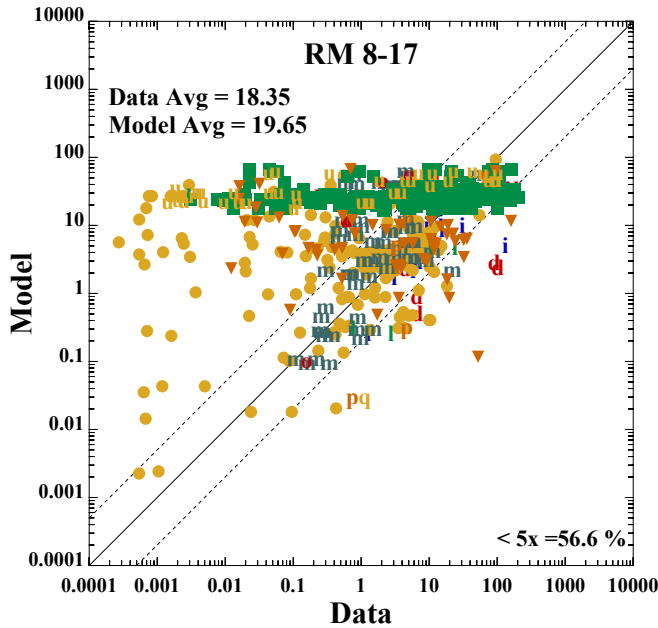
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

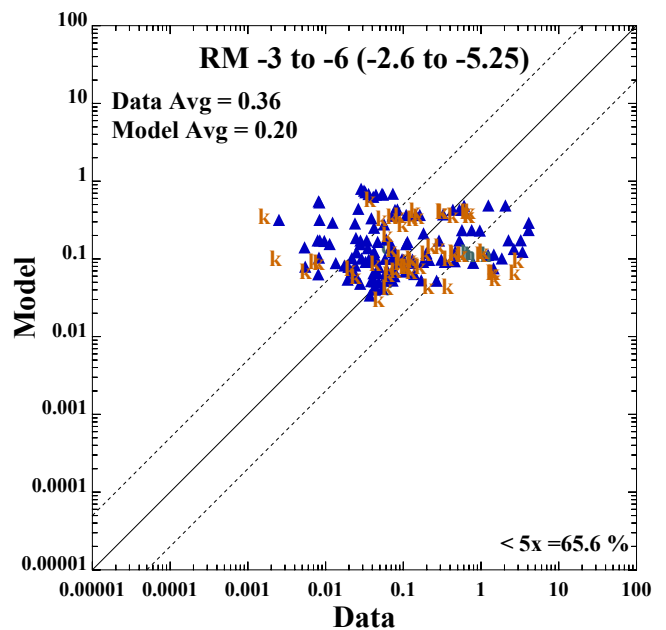
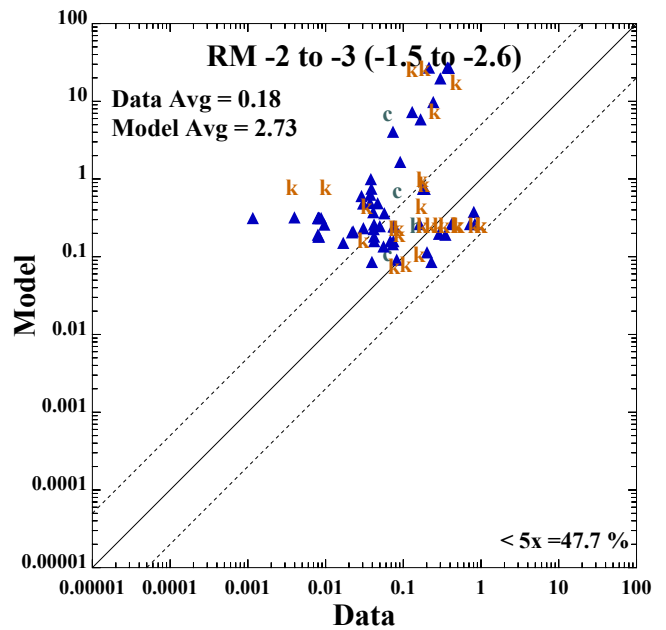
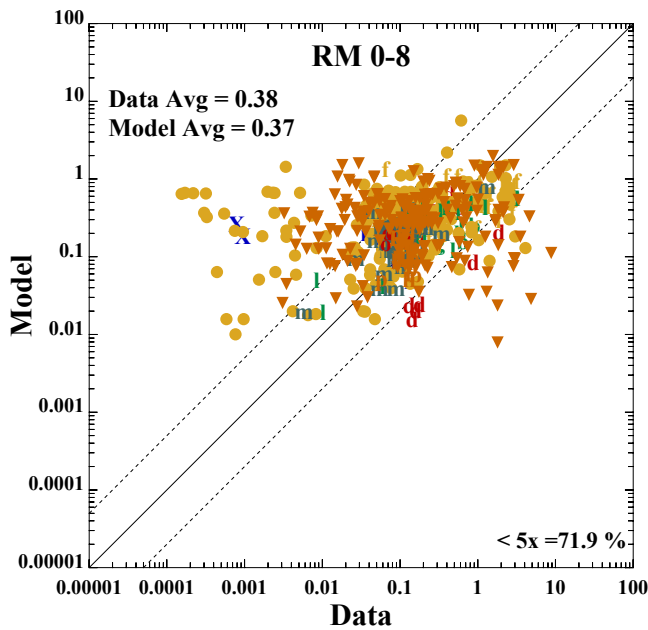
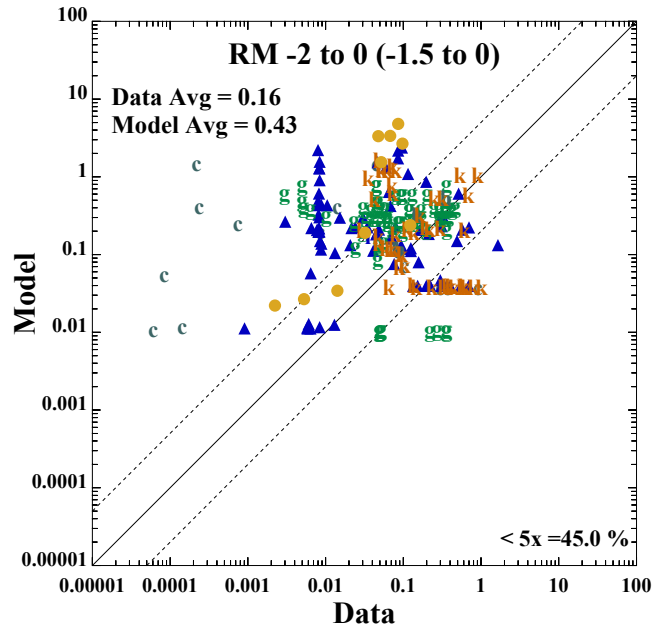
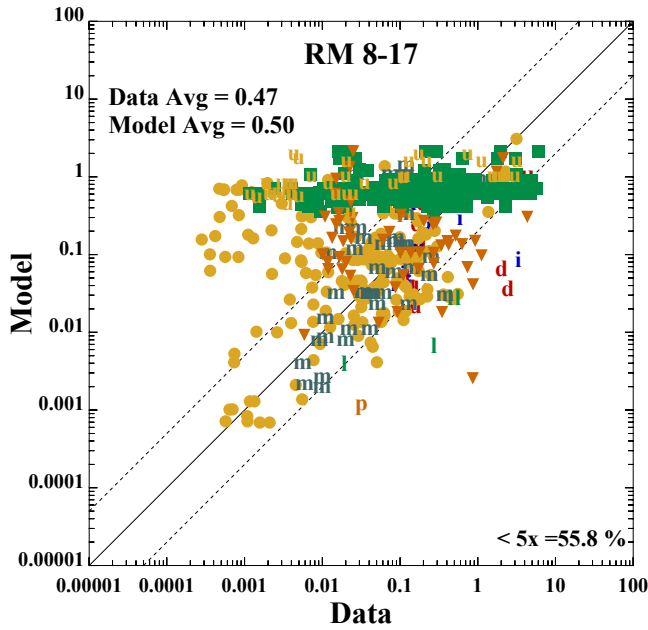
# All Layers BZ#077 (ug/kg) (PCB-TEF1)



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- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
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- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

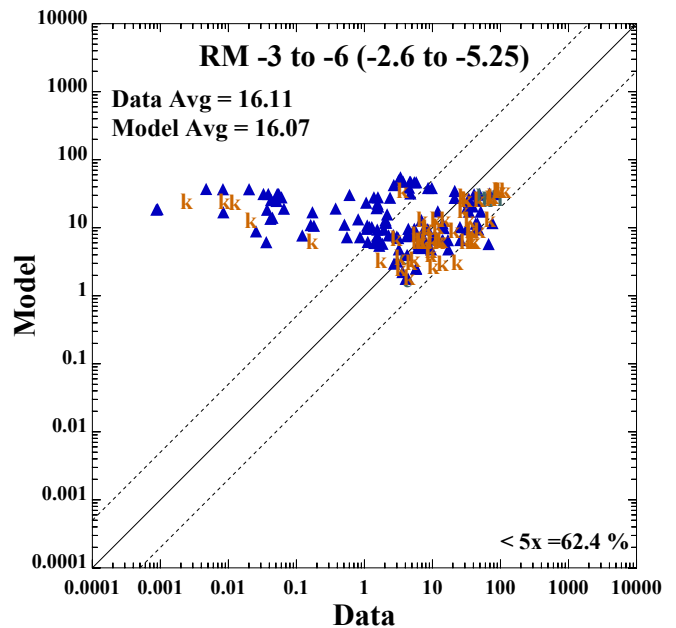
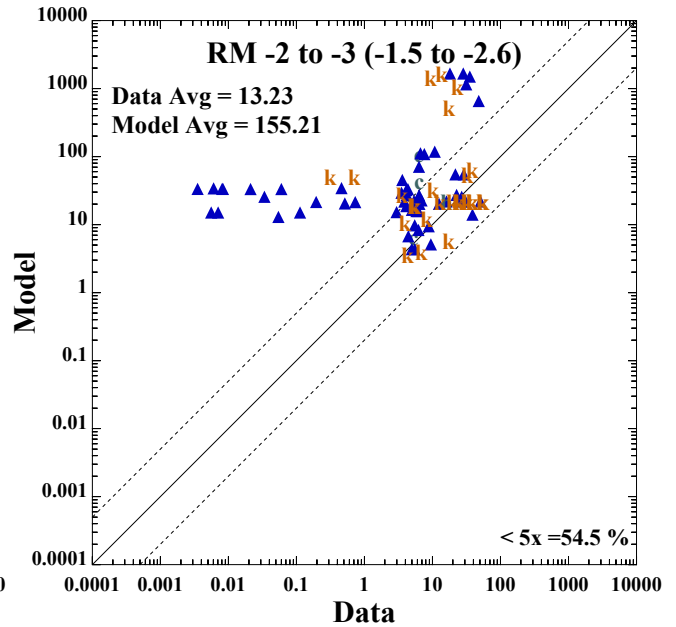
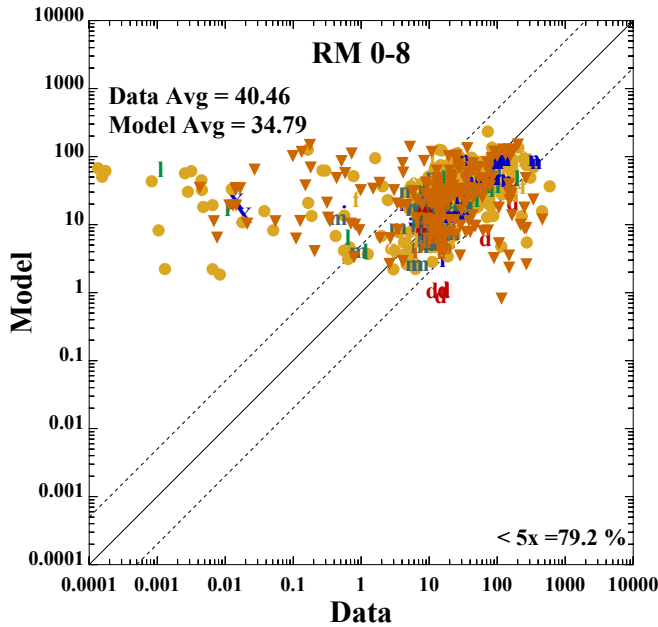
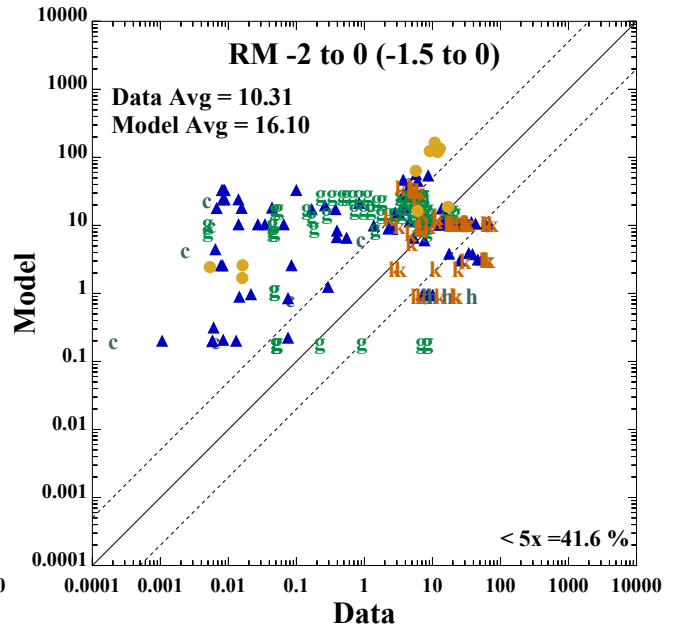
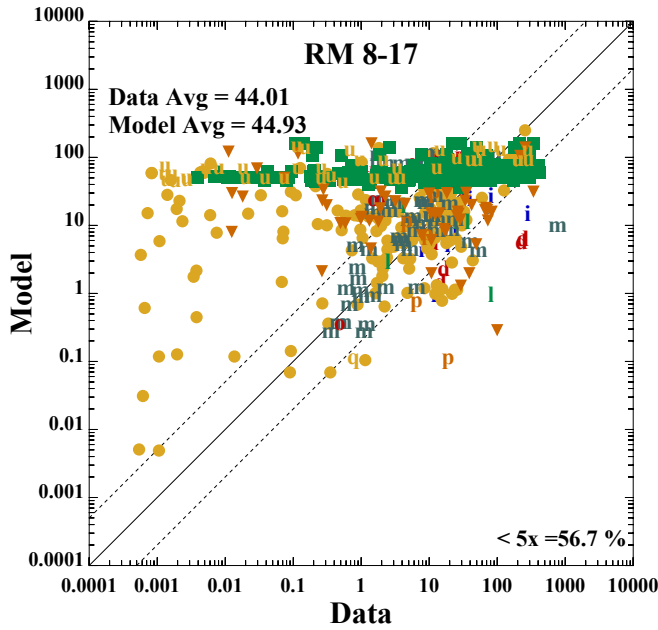


# All Layers BZ#081 (ug/kg) (PCB-TEF1)



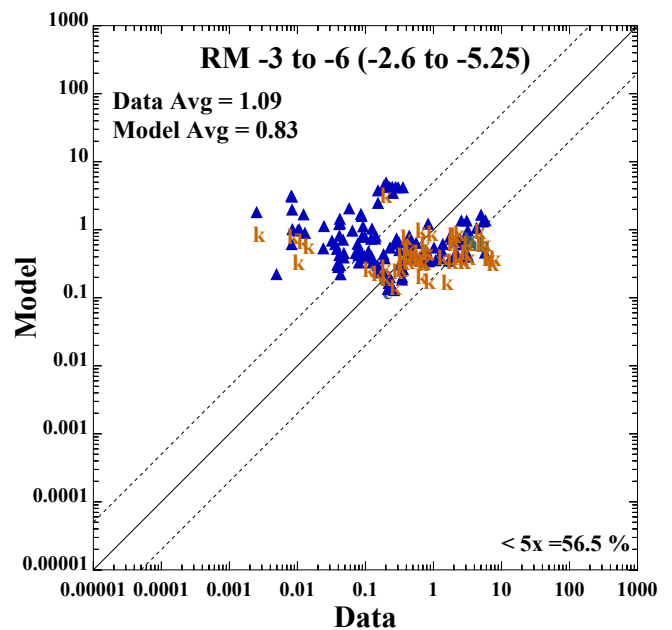
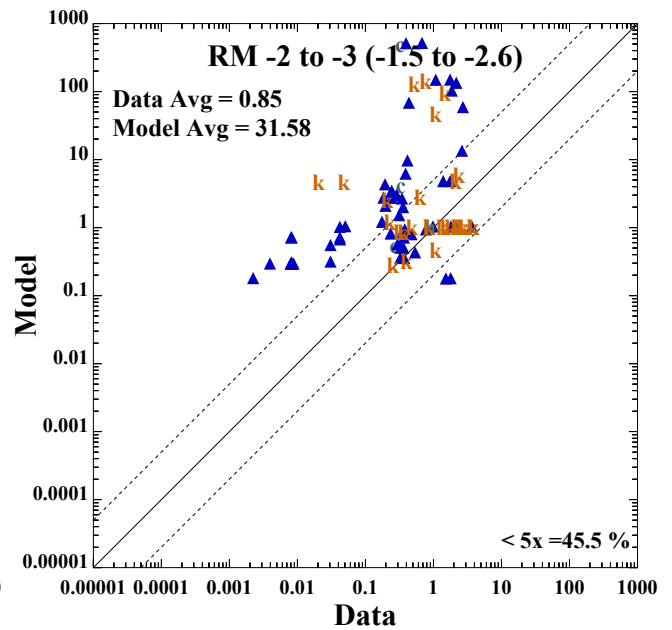
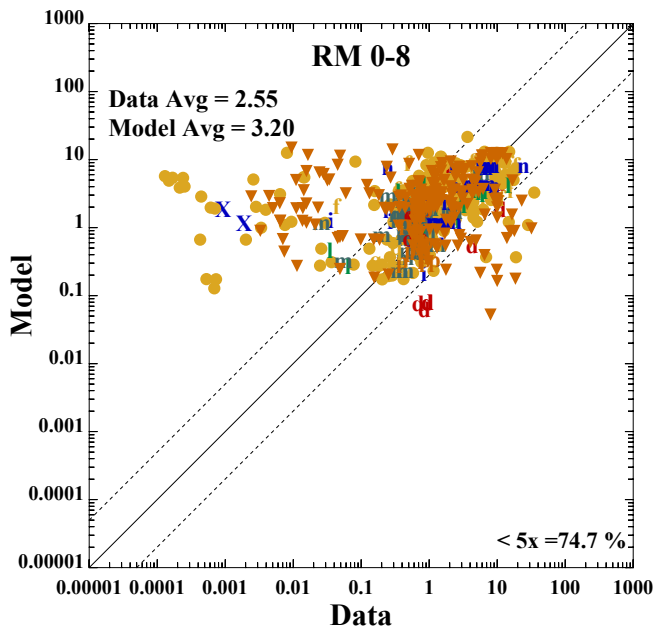
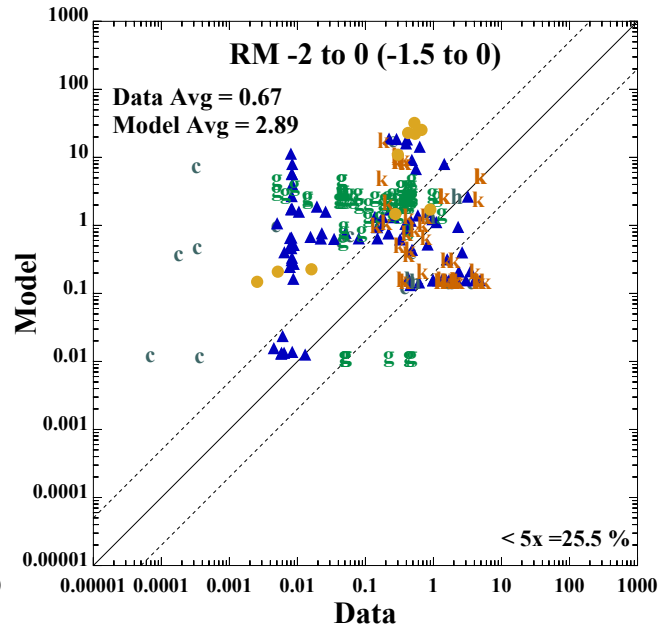
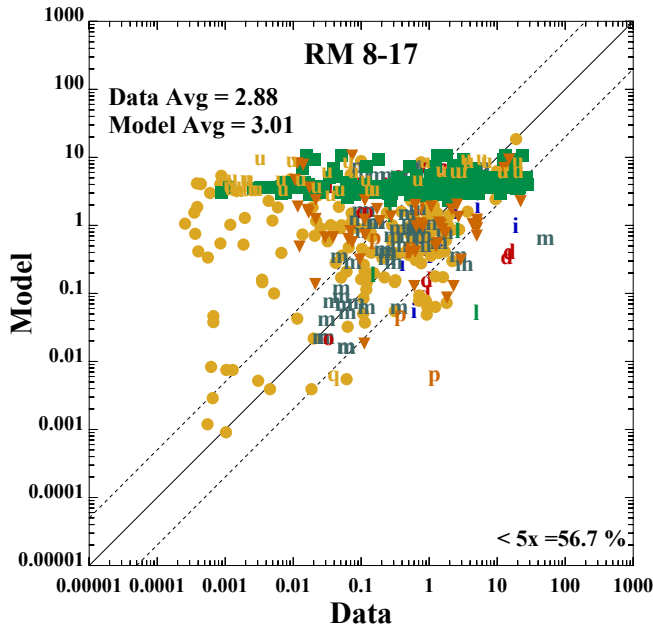
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
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- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#105 (ug/kg) (PCB-TEF1)



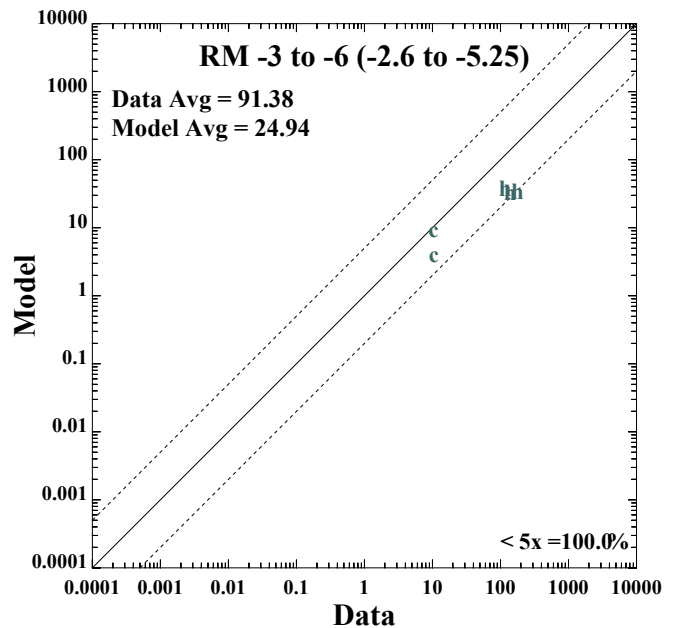
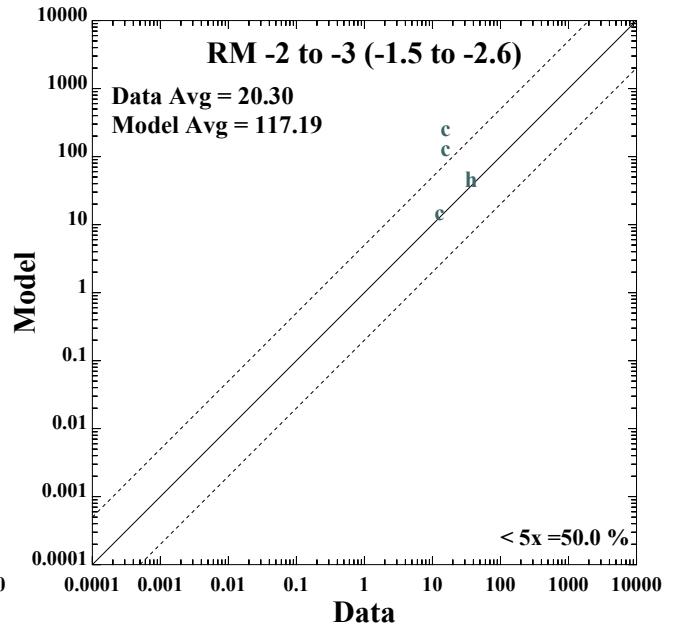
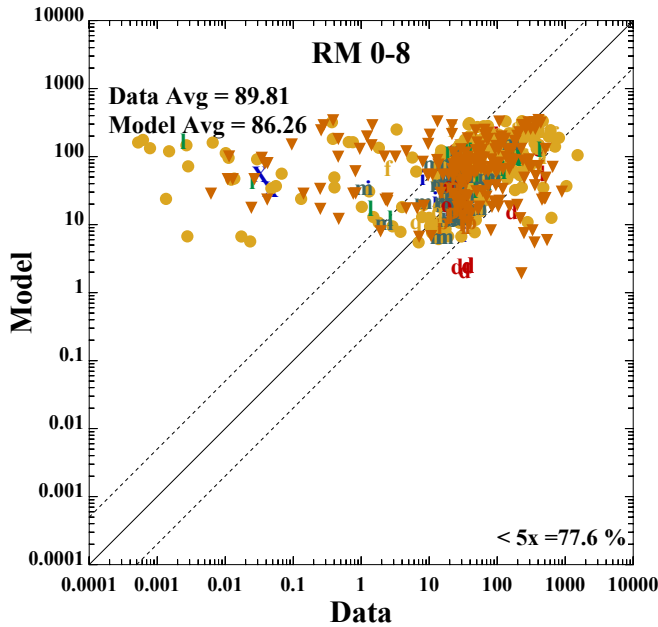
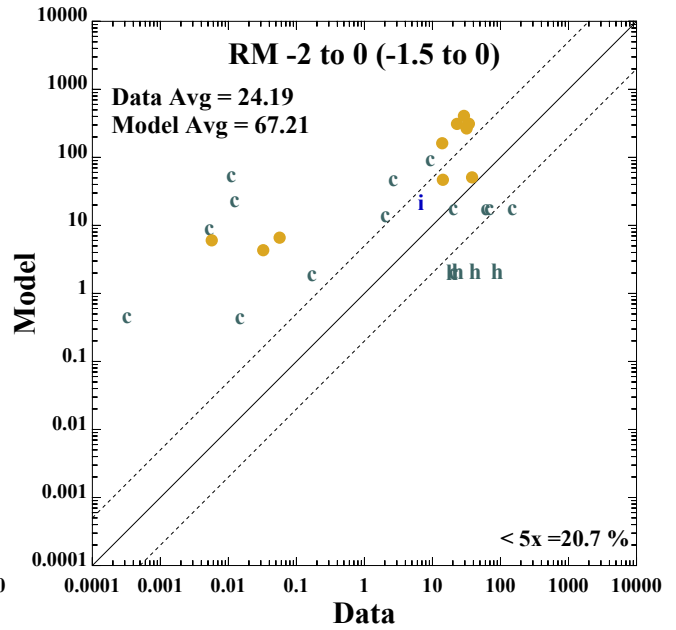
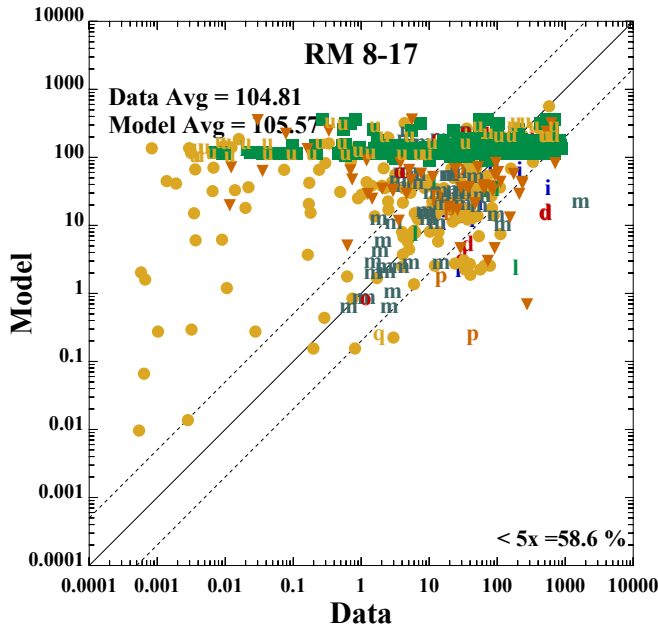
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- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#114 (ug/kg) (PCB-TEF1)



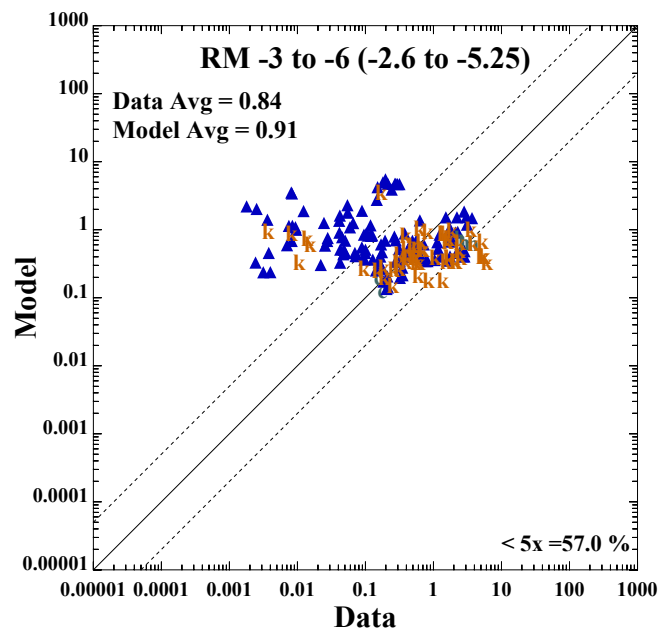
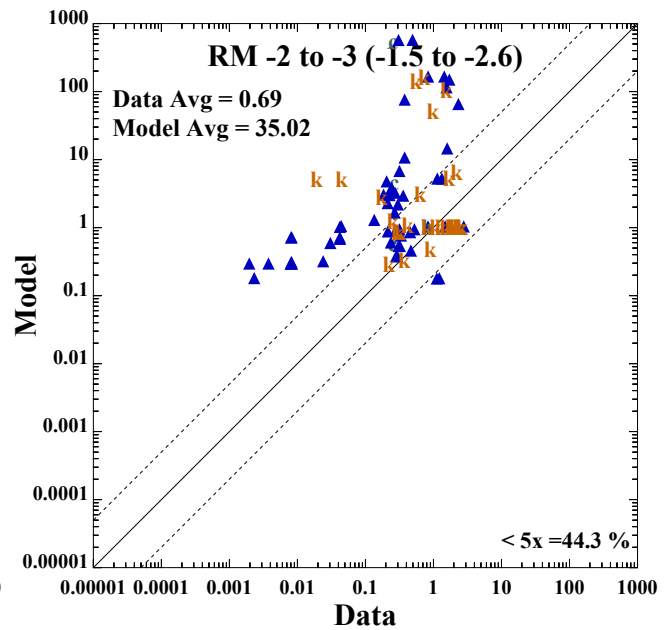
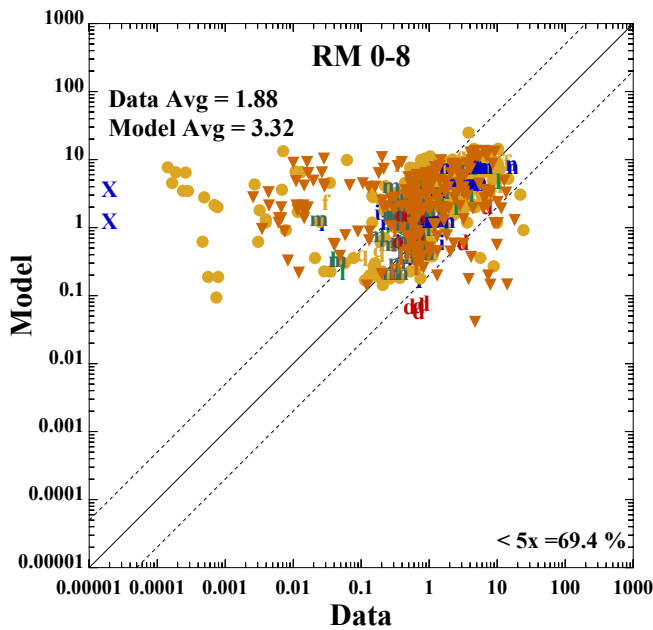
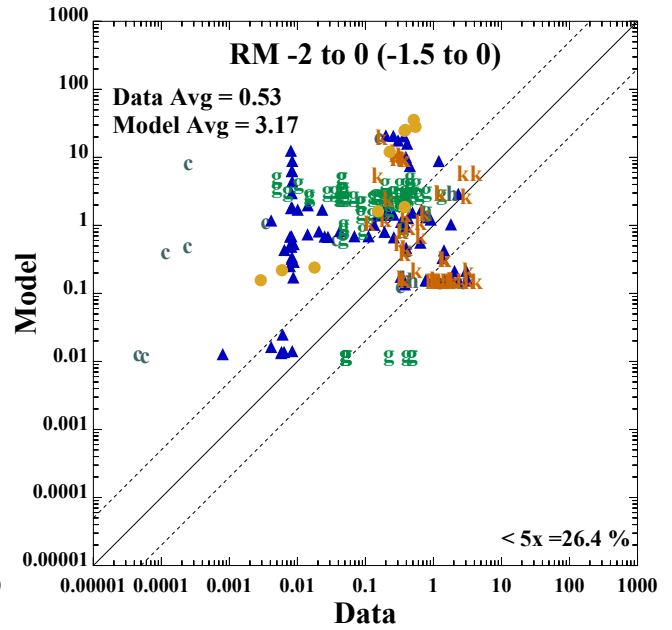
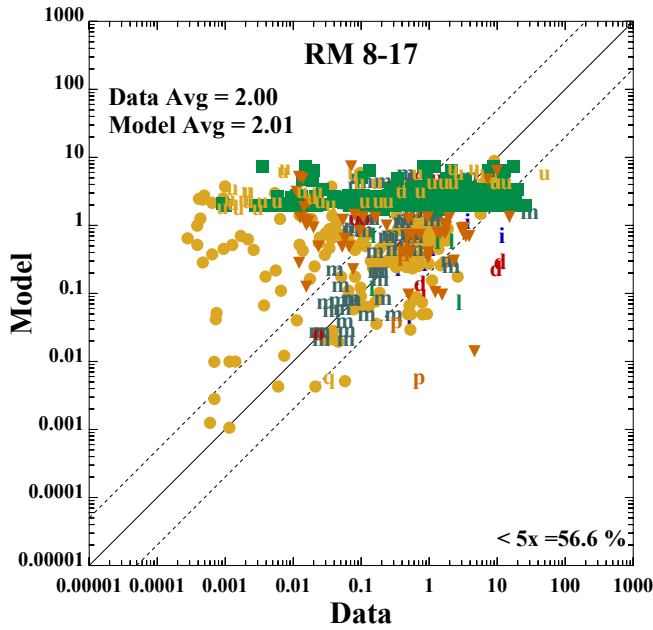
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- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#118 (ug/kg) (PCB-TEF1)



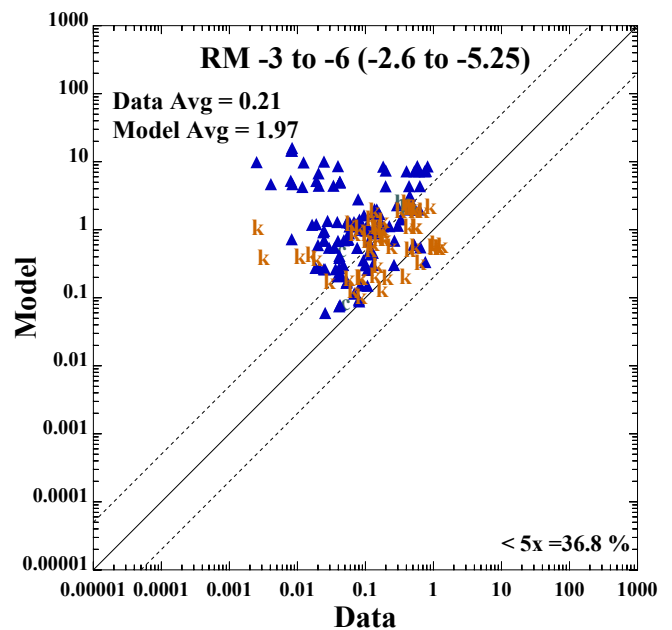
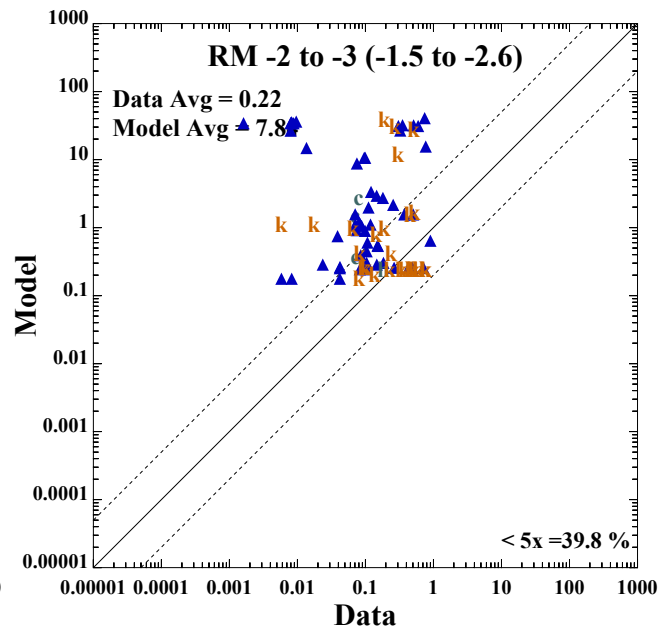
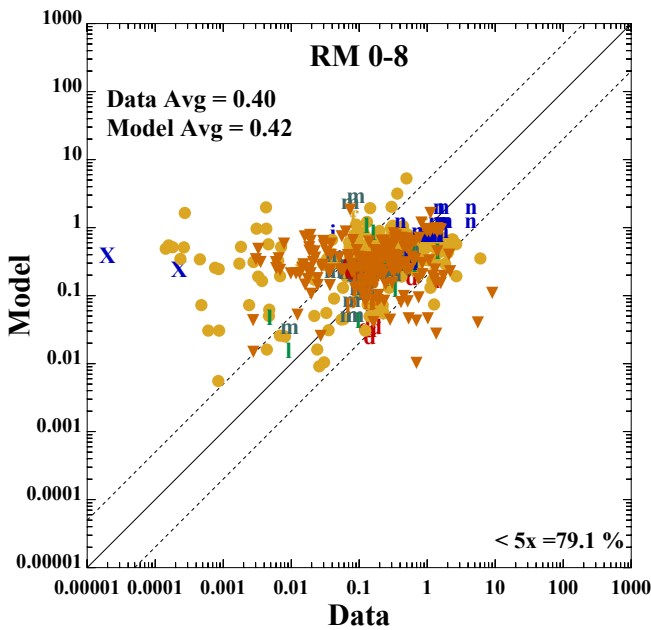
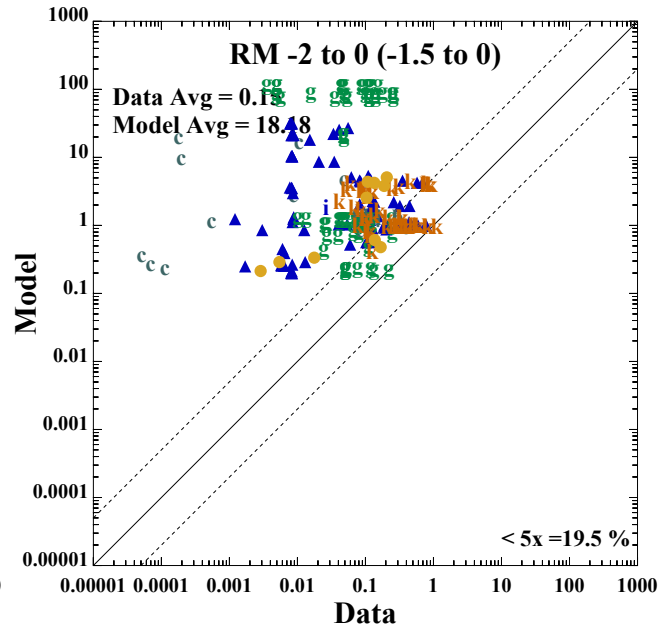
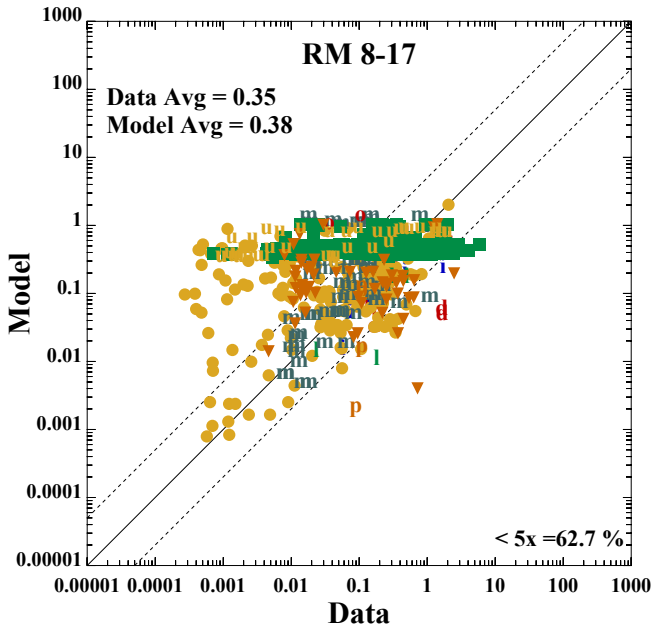
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#123 (ug/kg) (PCB-TEF1)



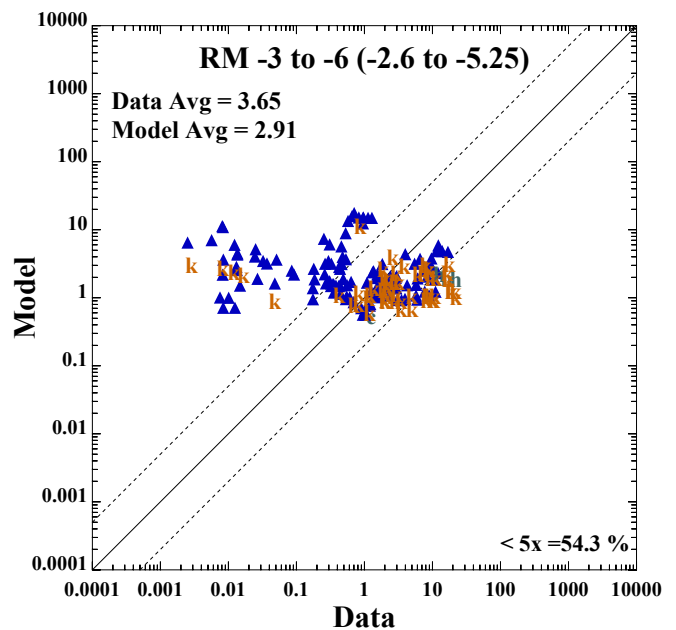
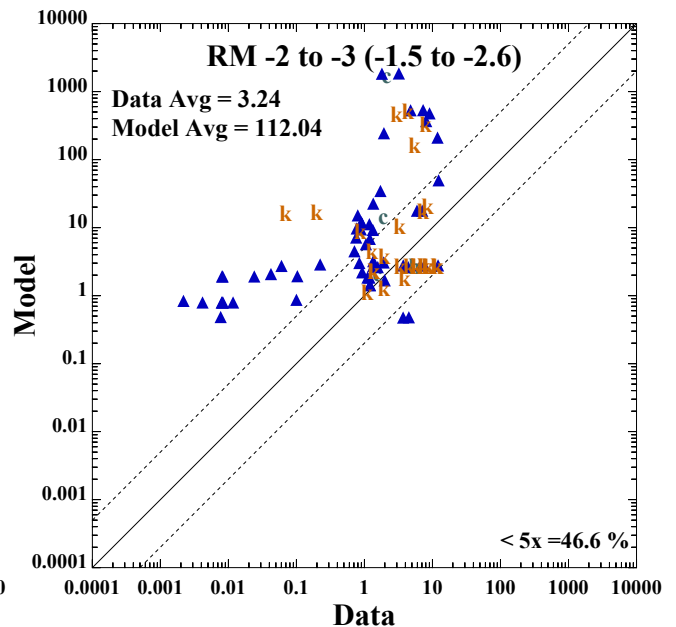
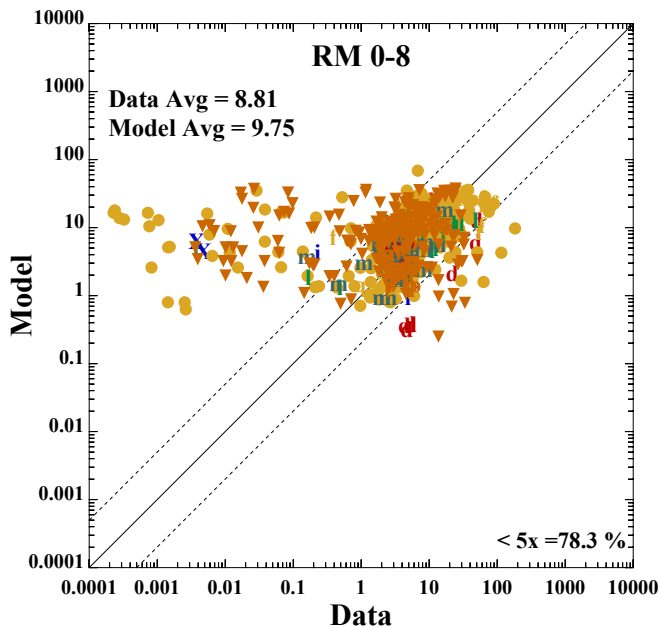
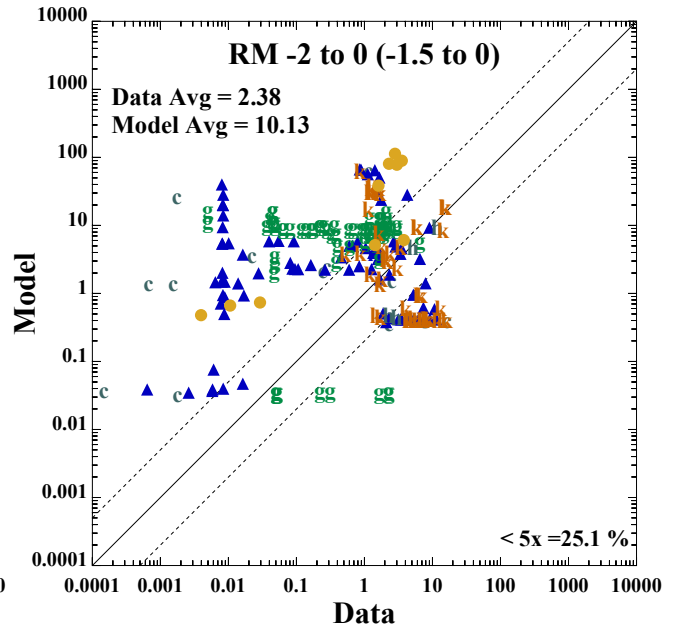
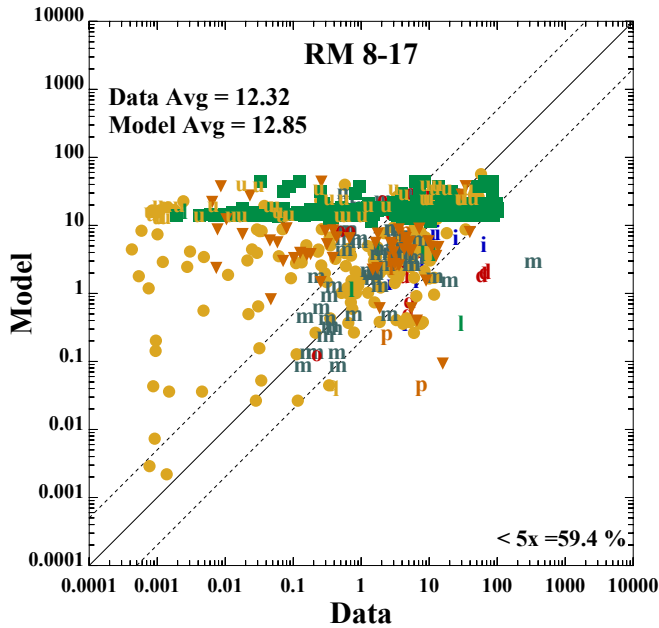
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#126 (ug/kg) (PCB-TEF2)



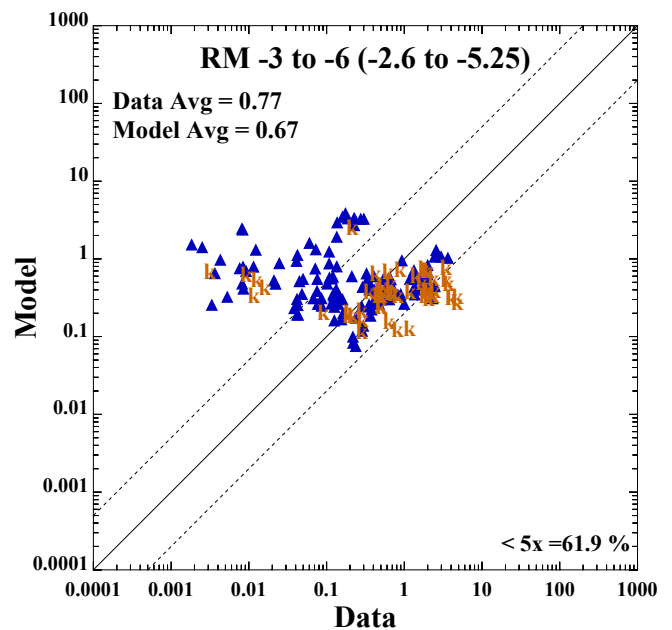
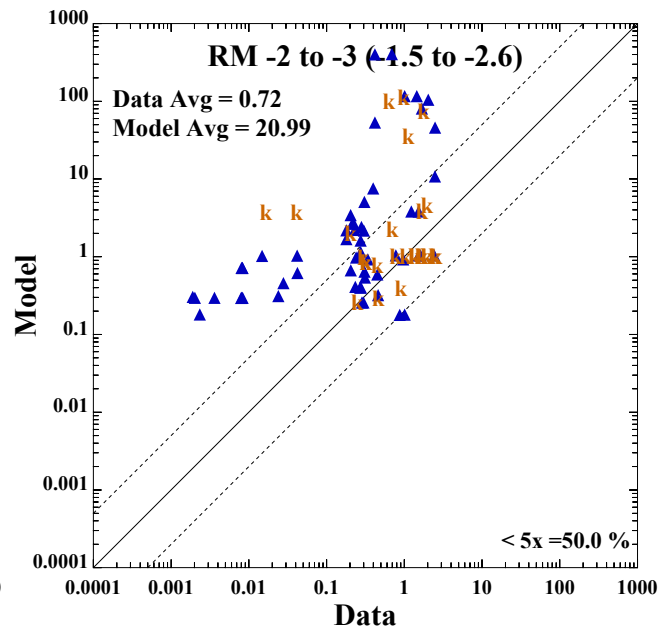
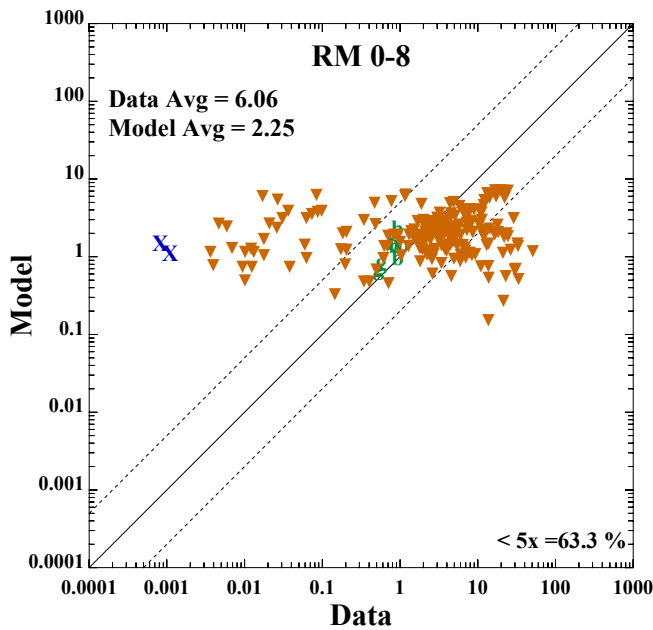
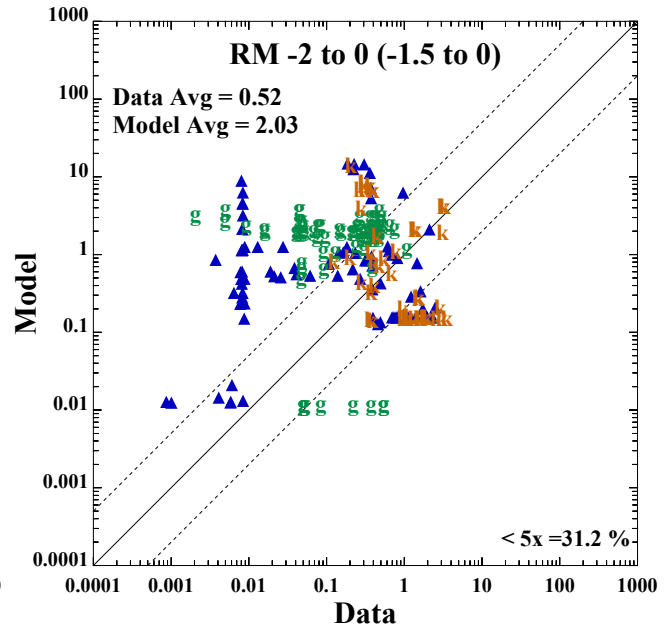
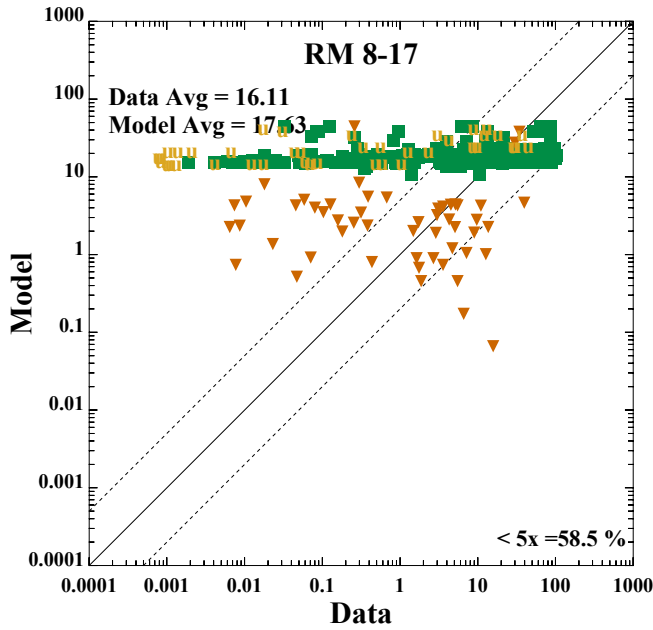
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

## All Layers BZ#156 (ug/kg) (PCB-TEF2)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

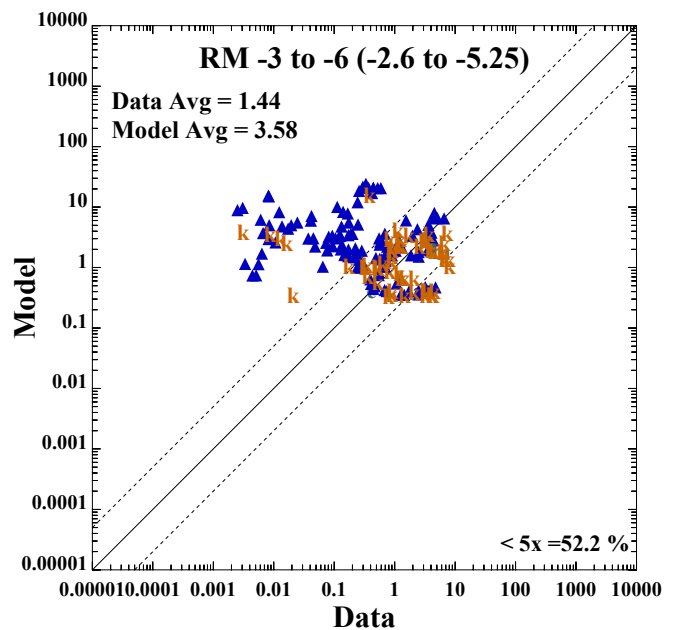
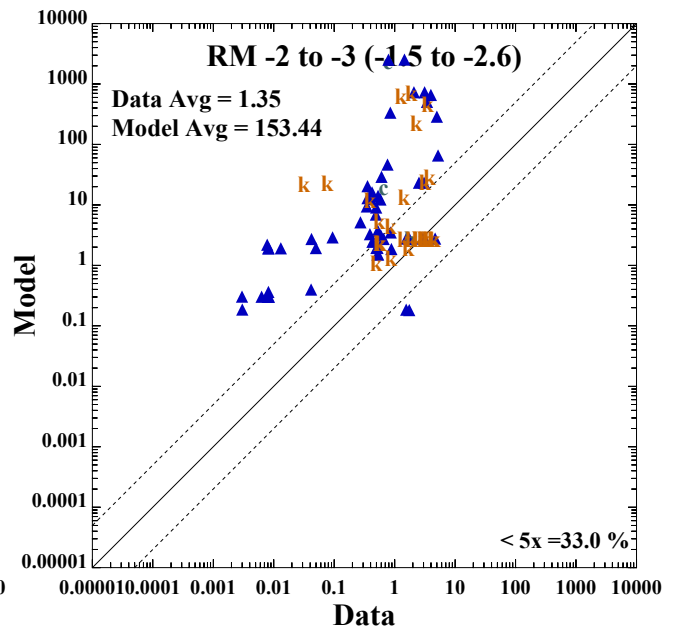
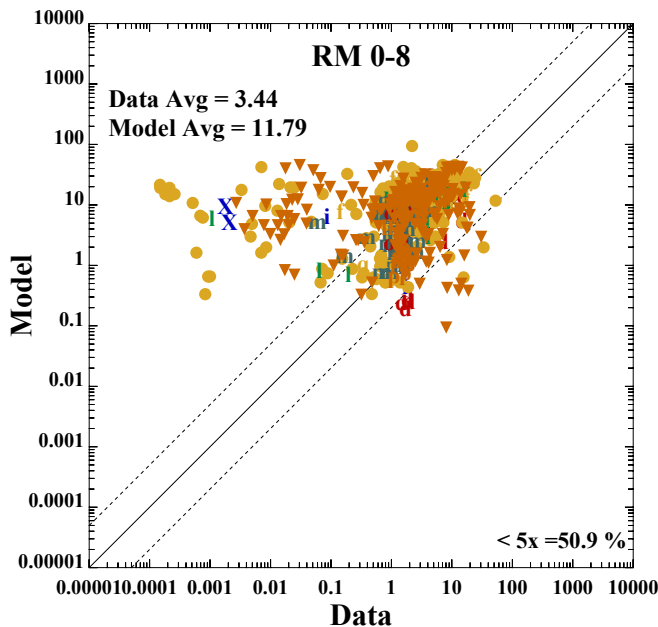
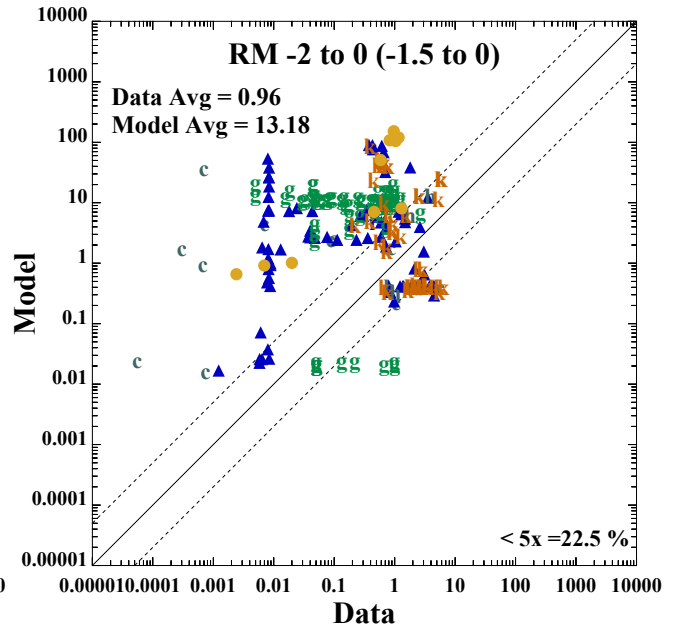
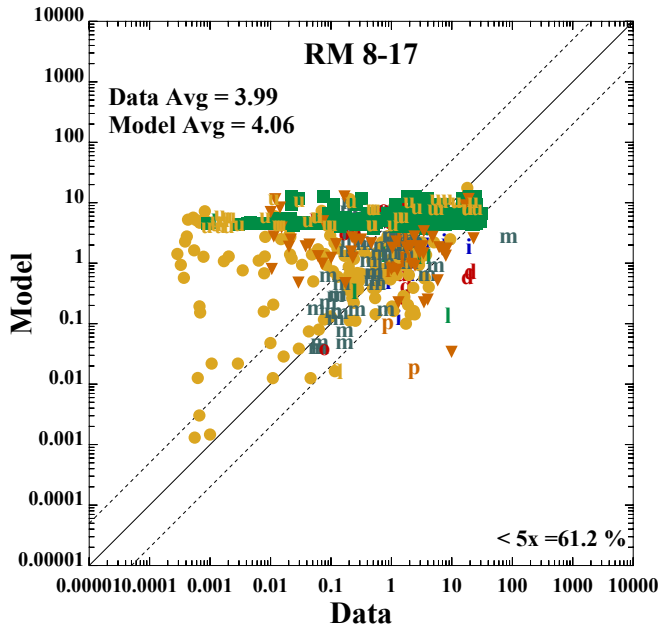
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

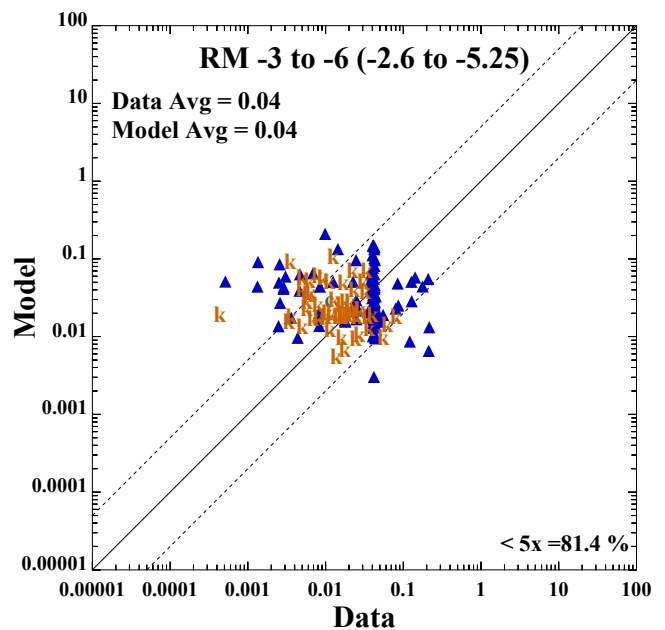
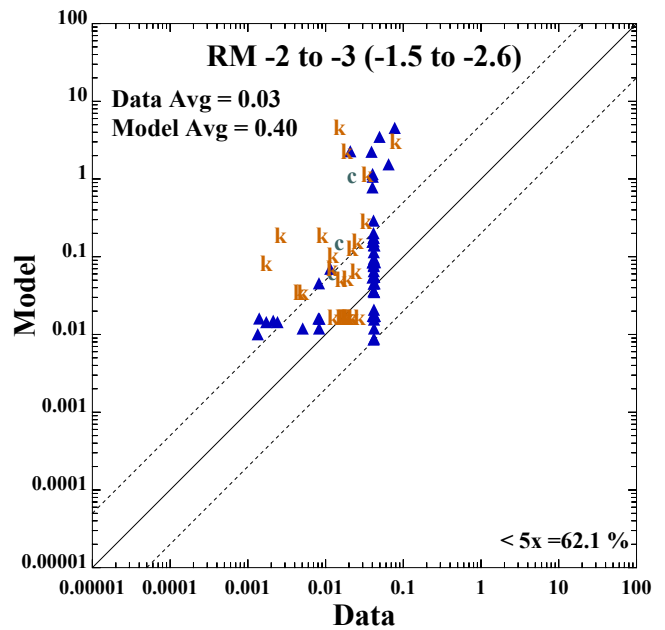
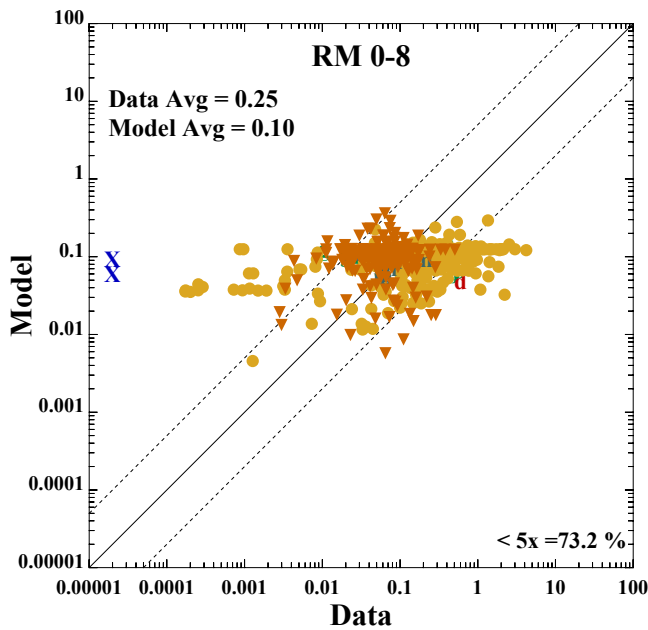
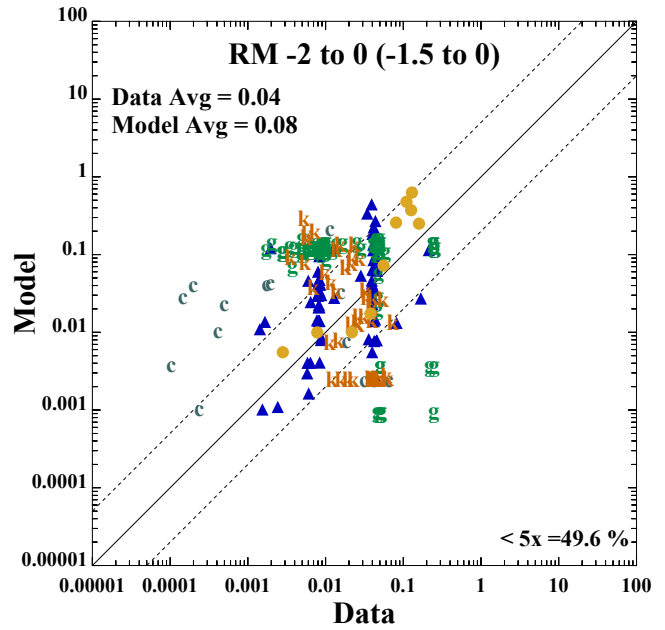
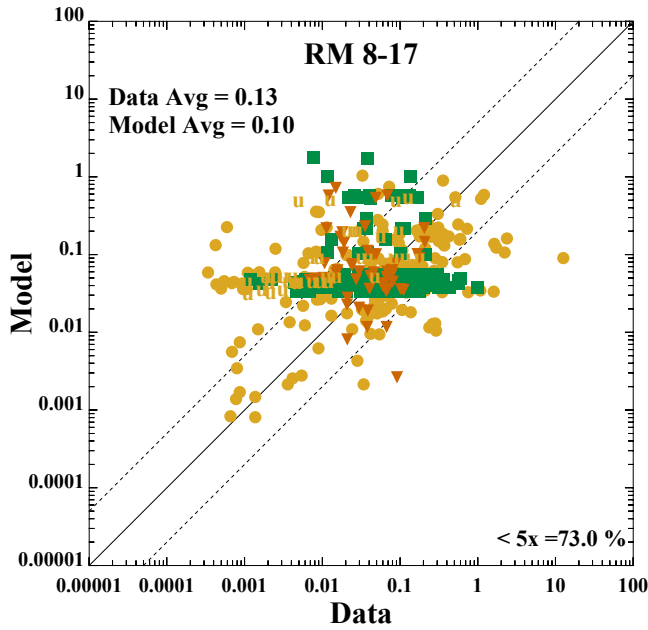


# All Layers BZ#167 (ug/kg) (PCB-TEF2)



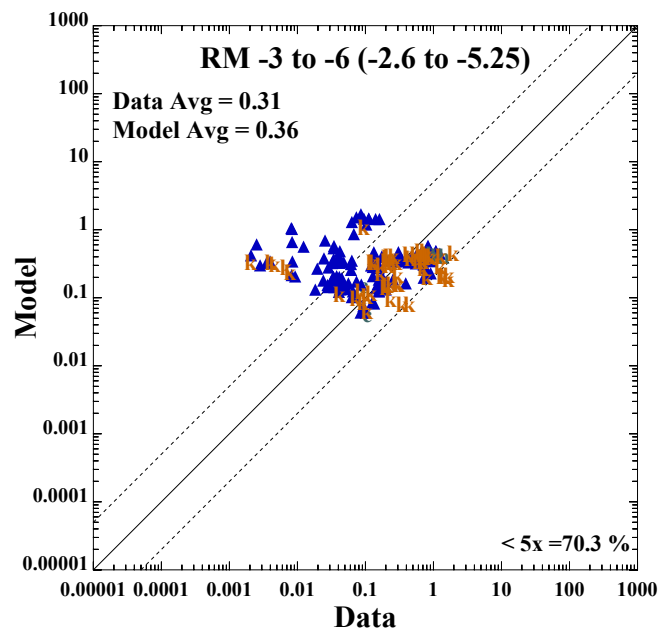
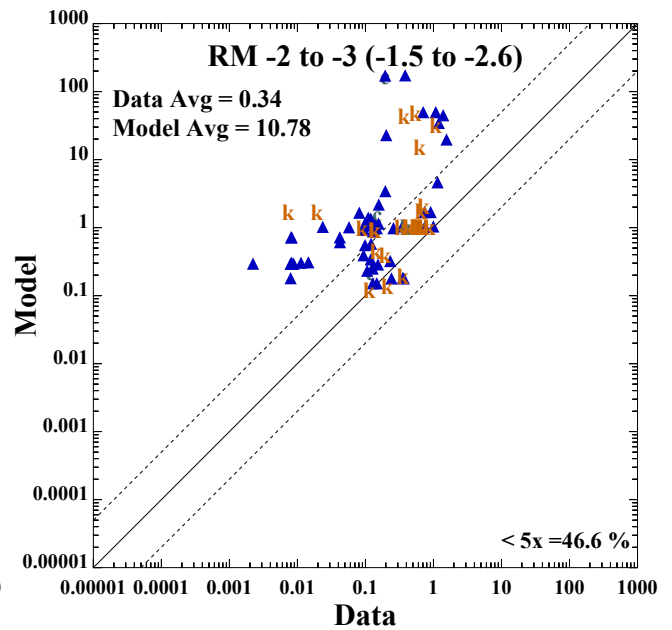
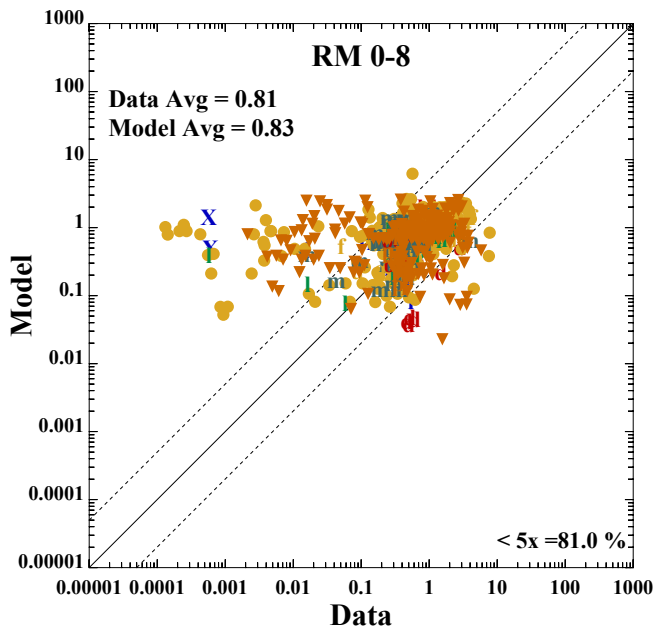
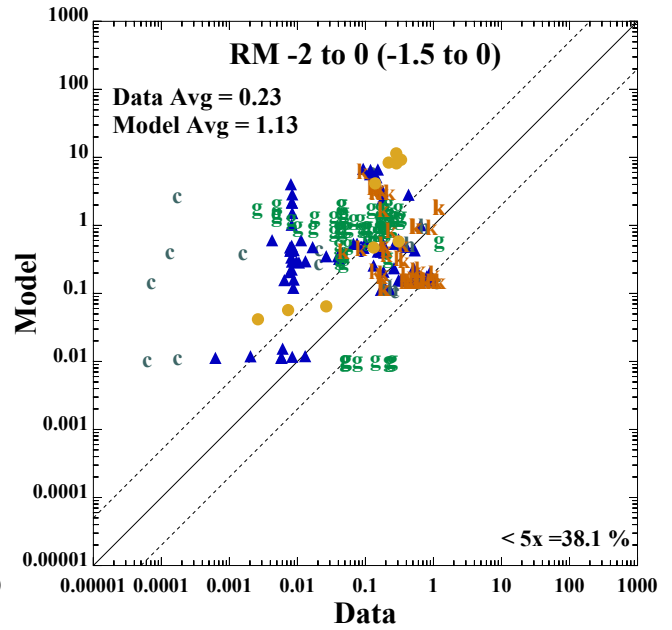
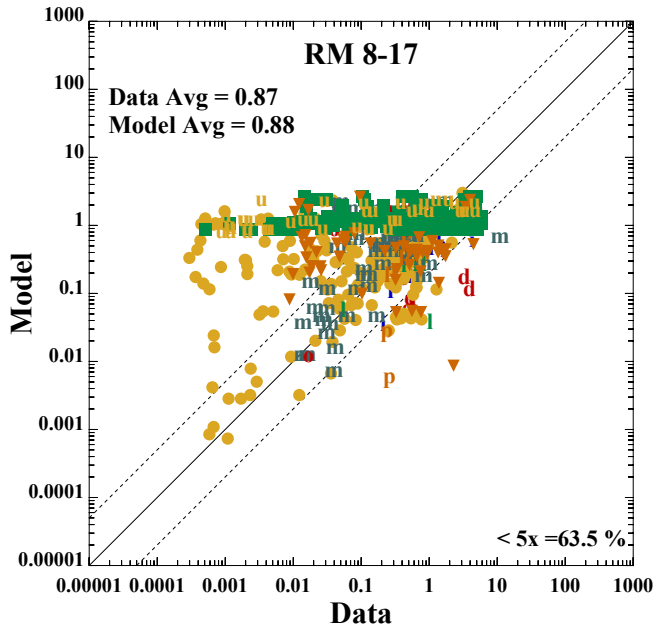
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#169 (ug/kg) (PCB-TEF2)



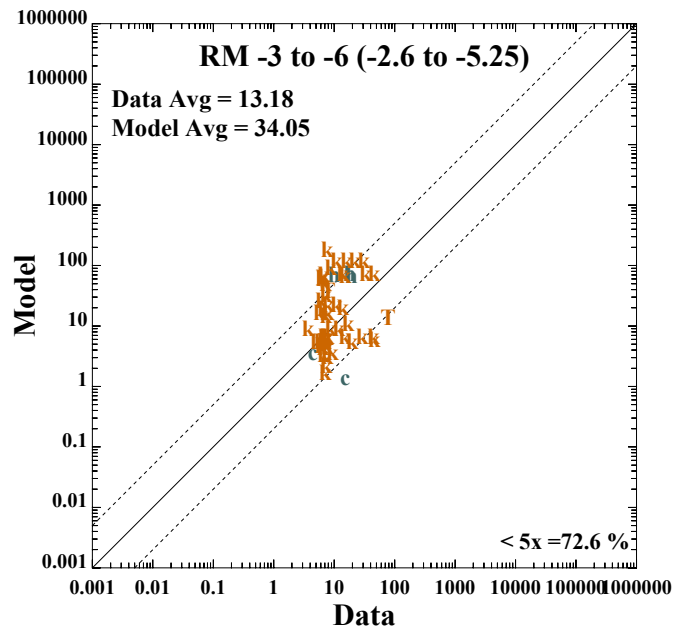
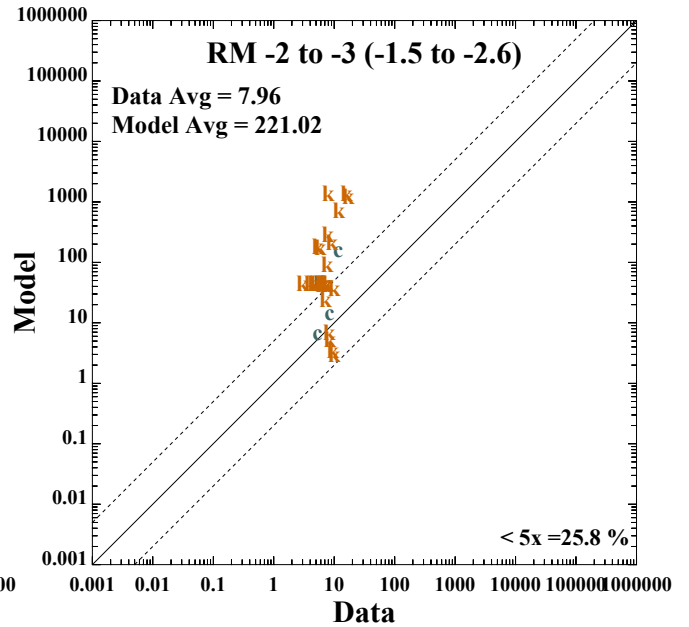
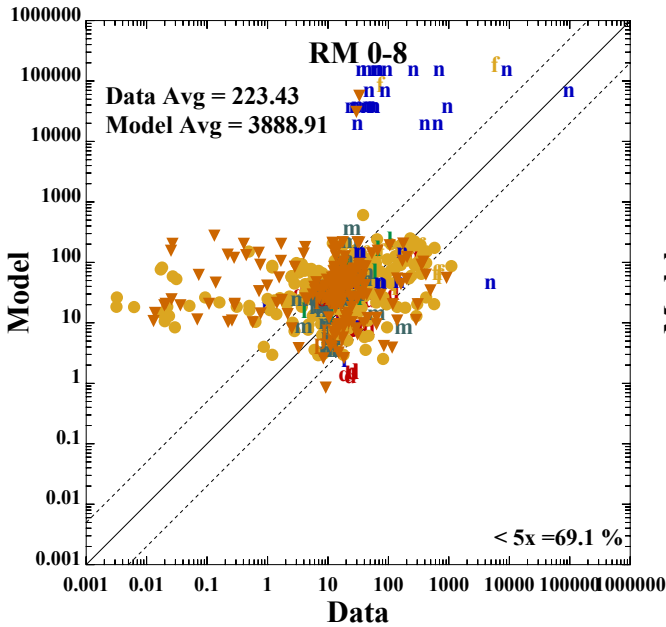
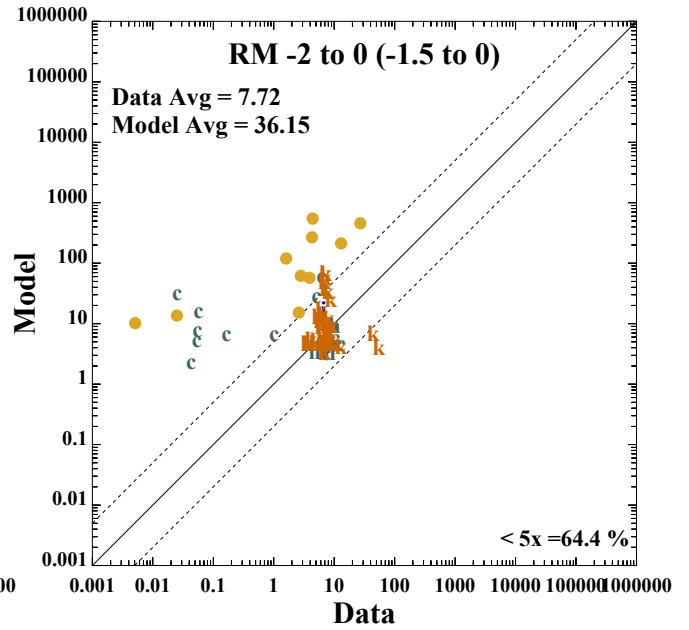
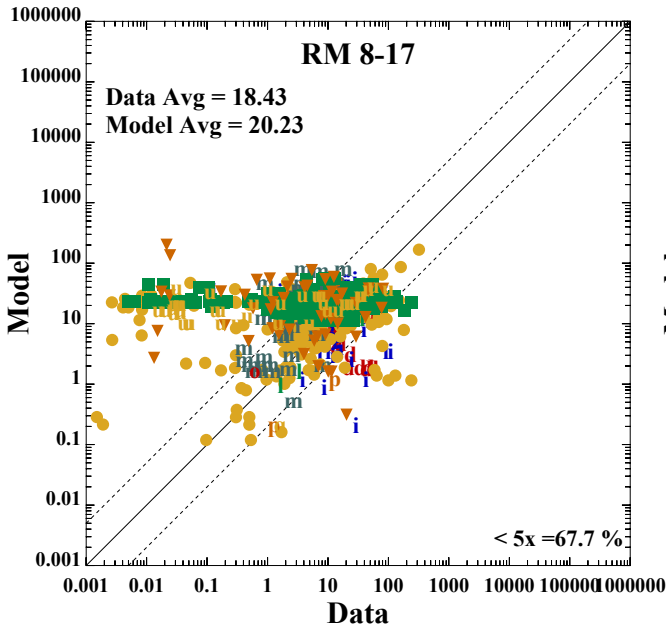
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers BZ#189 (ug/kg) (PCB-TEF2)



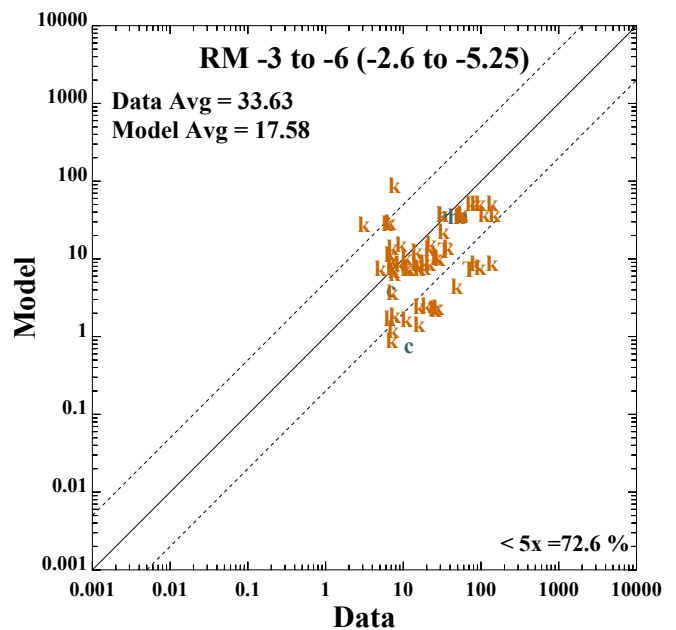
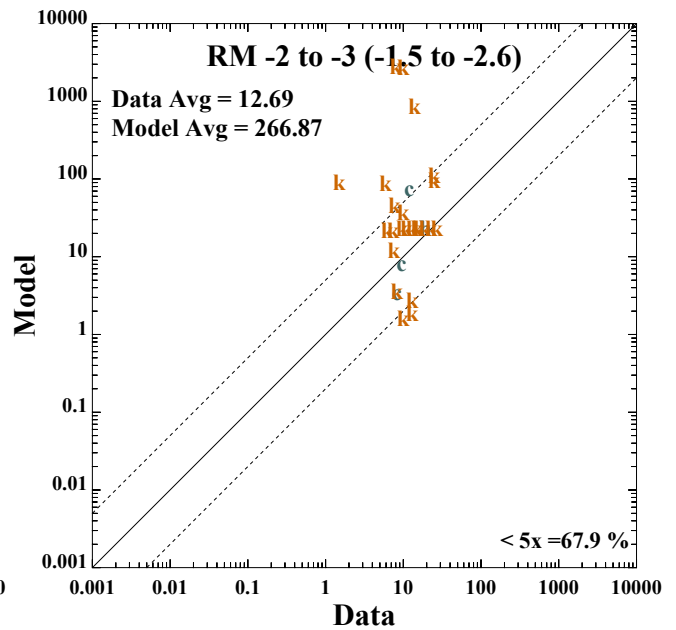
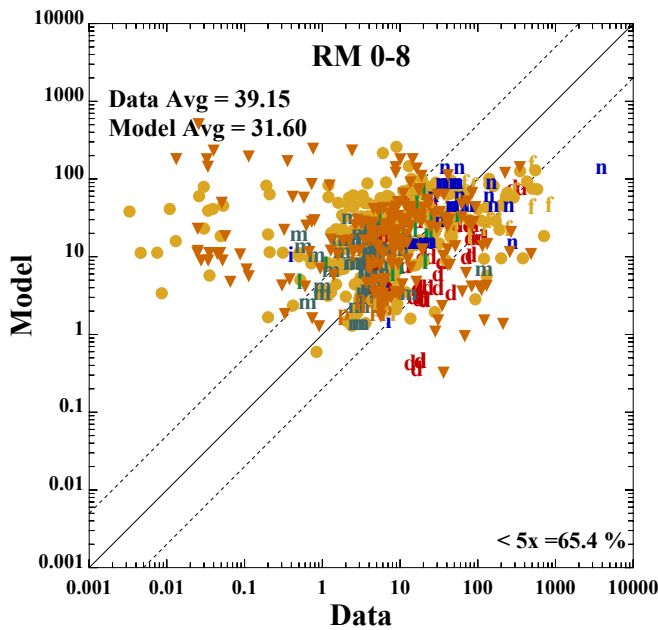
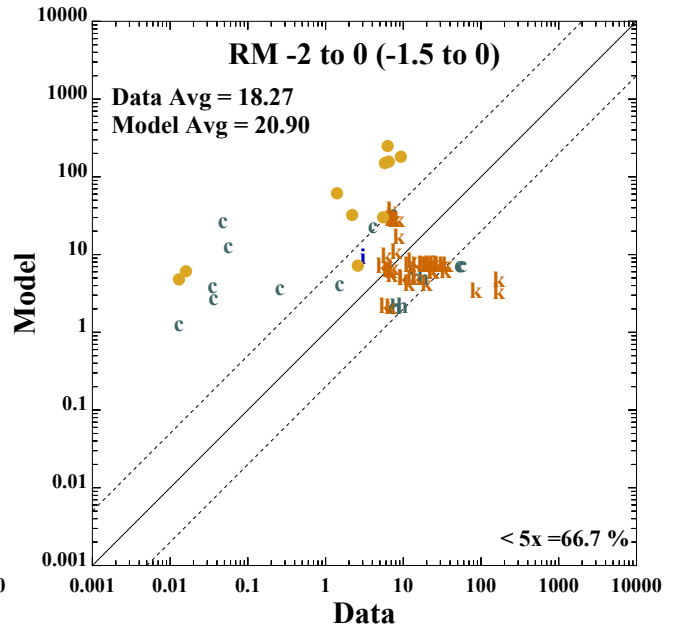
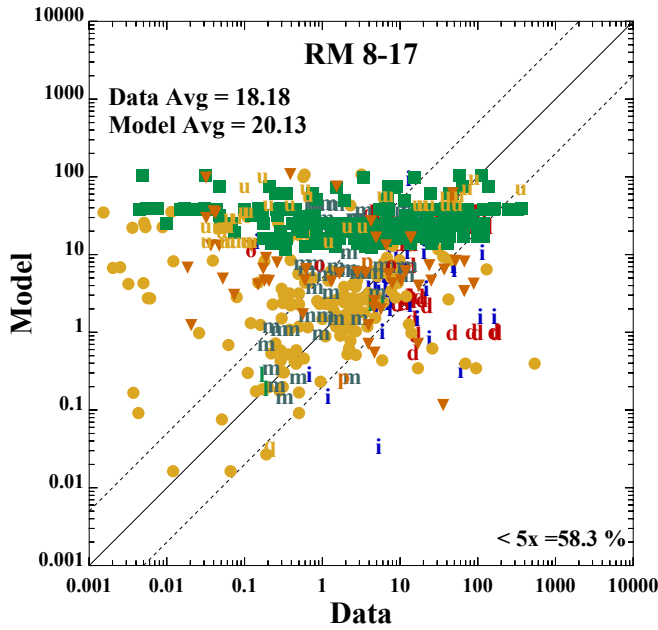
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 2,4-DDD (ug/kg) (PEST1)



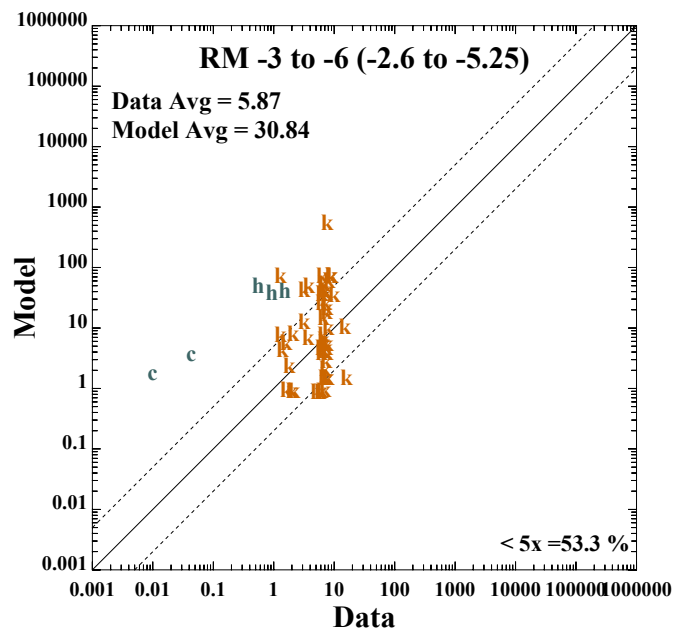
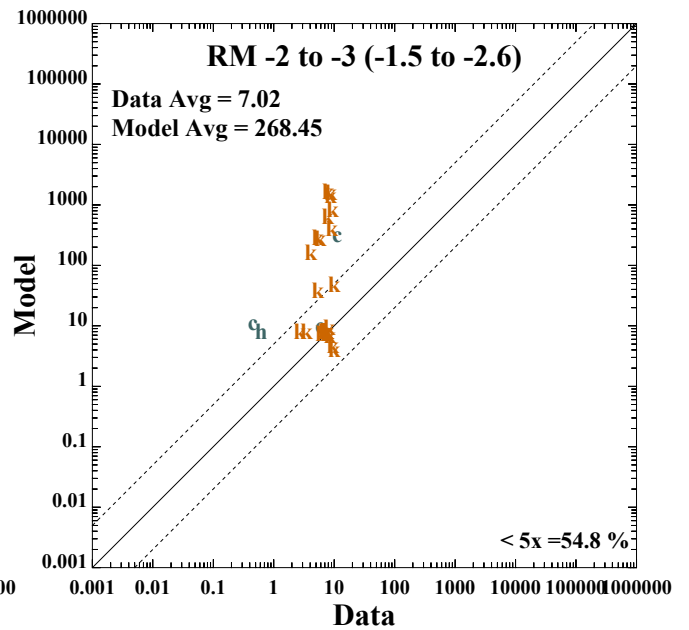
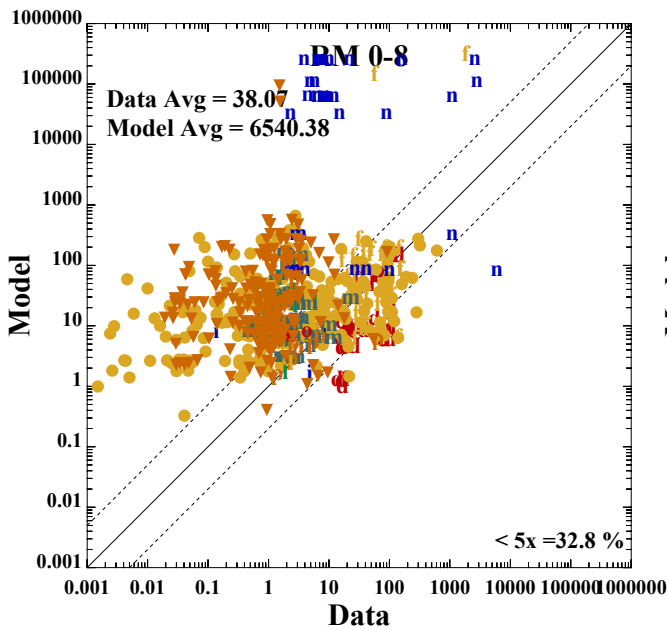
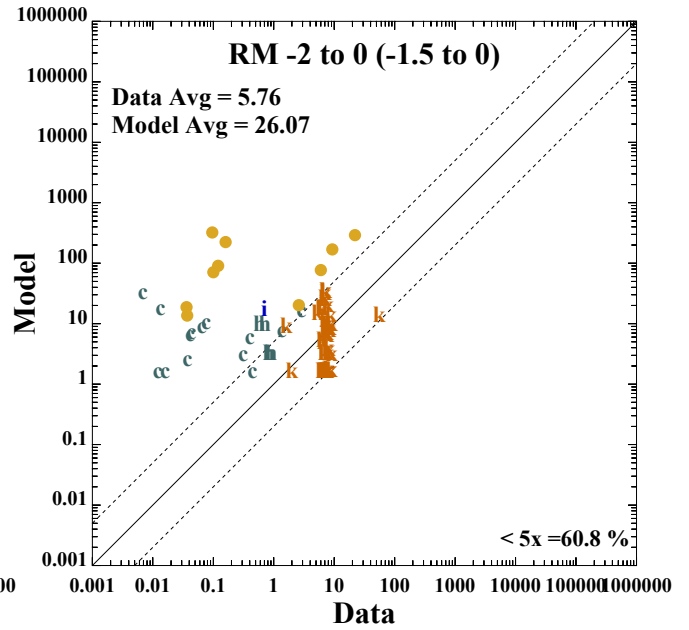
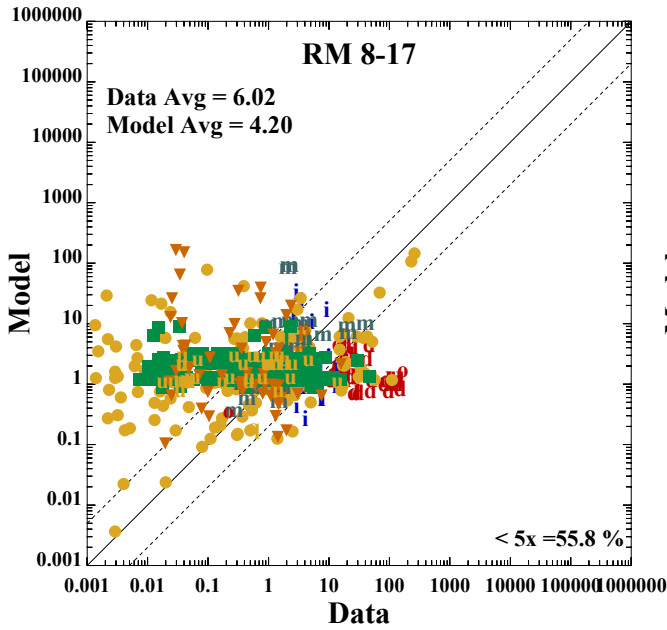
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 2,4-DDE (ug/kg) (PEST1)



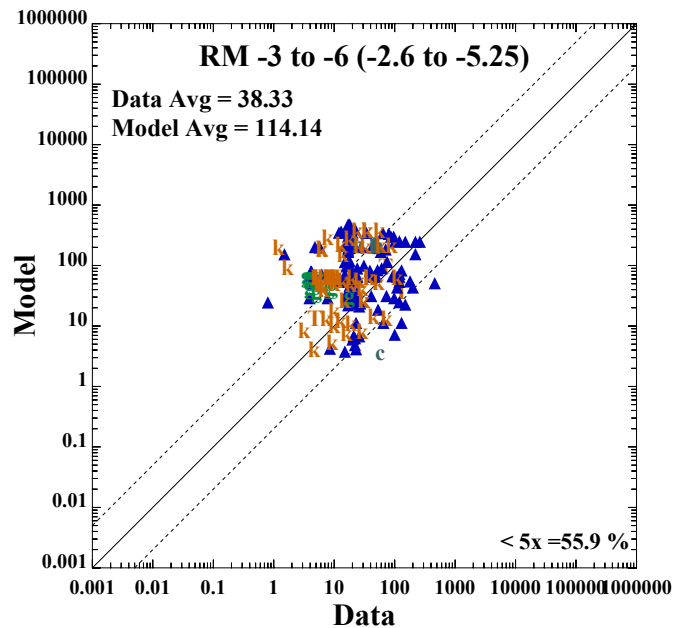
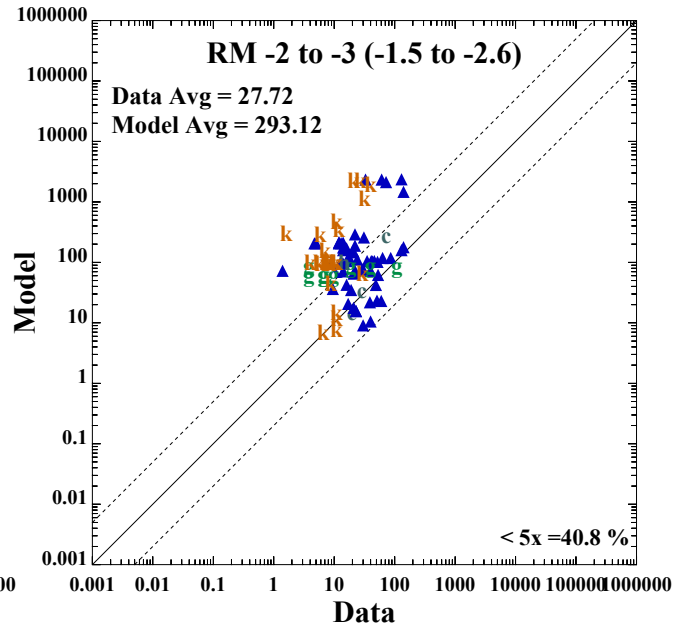
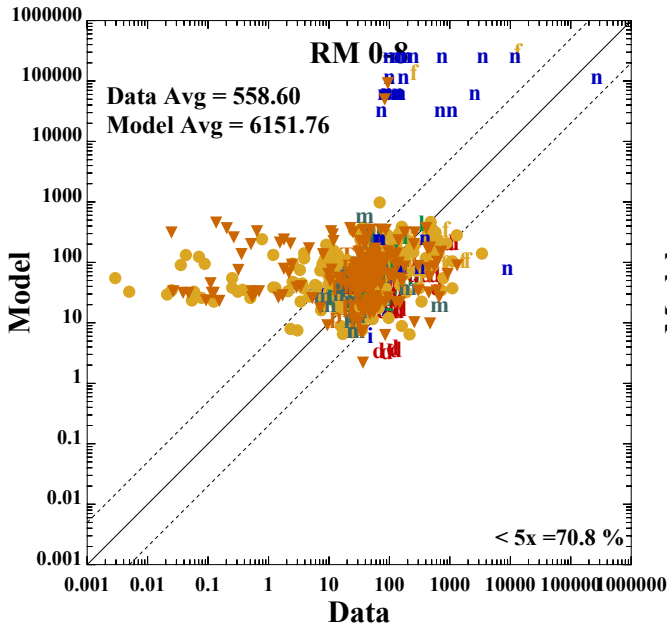
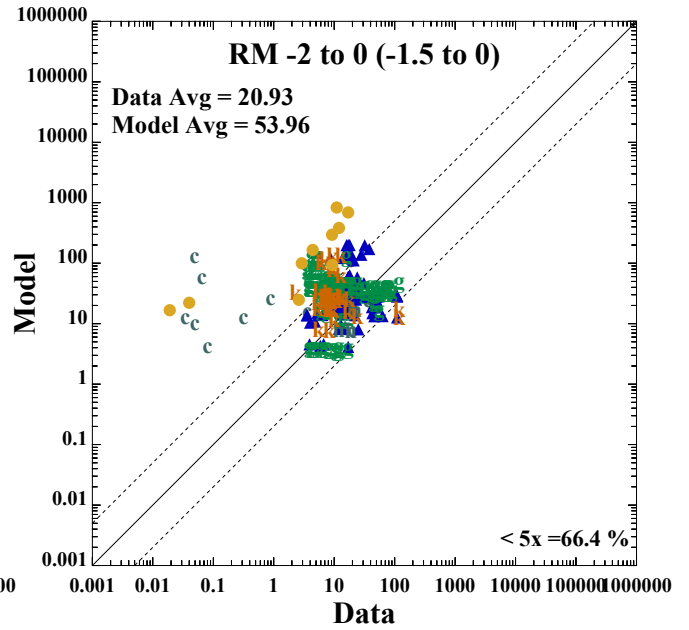
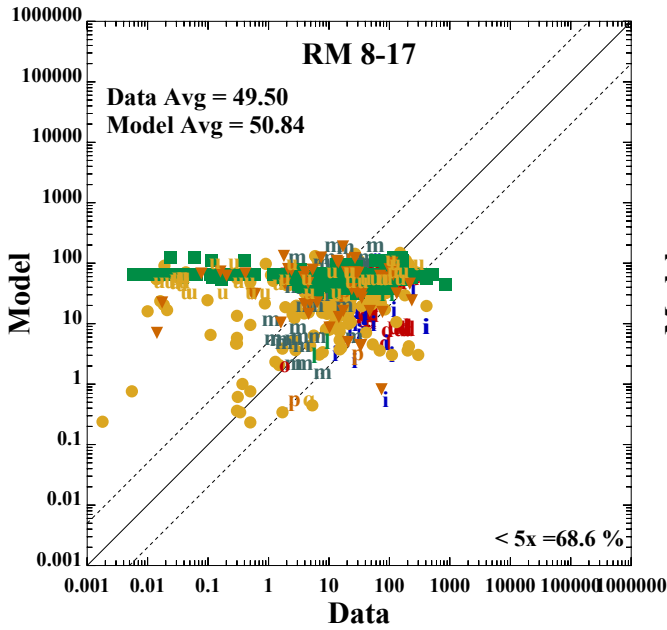
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 2,4-DDT (ug/kg) (PEST1)



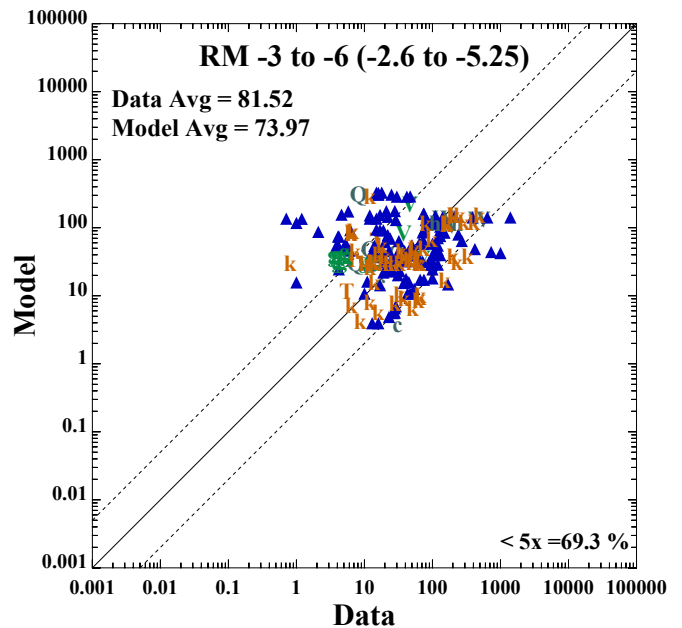
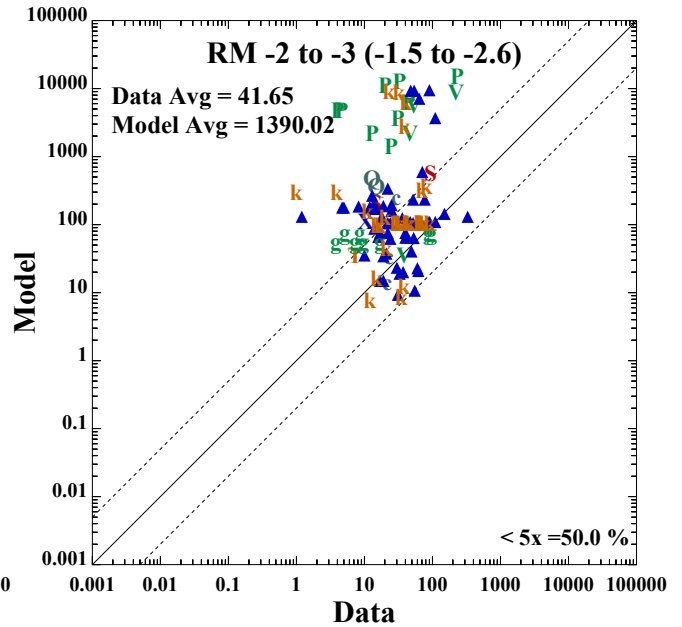
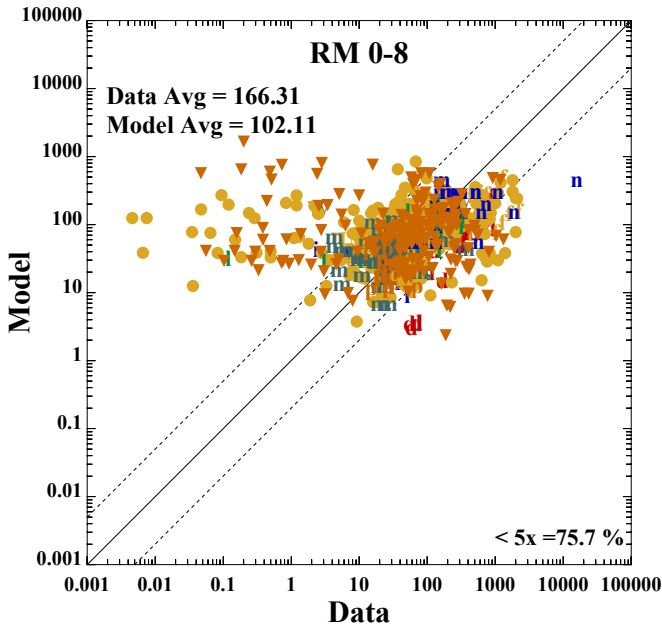
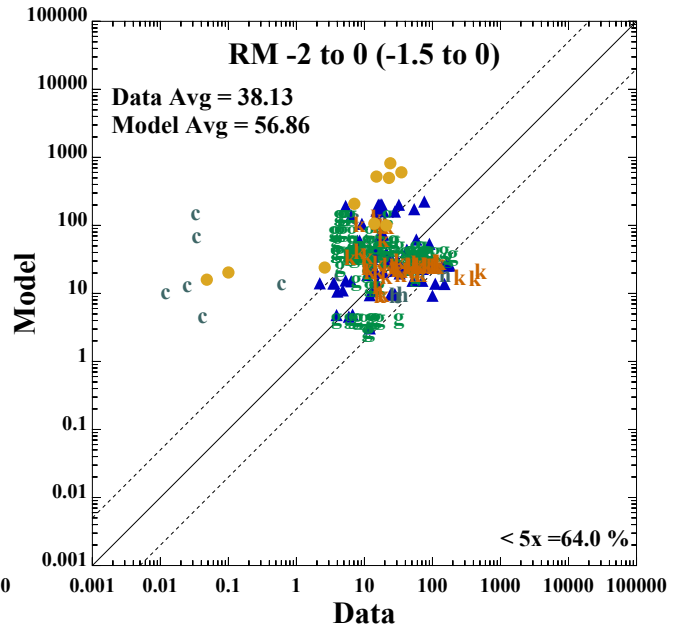
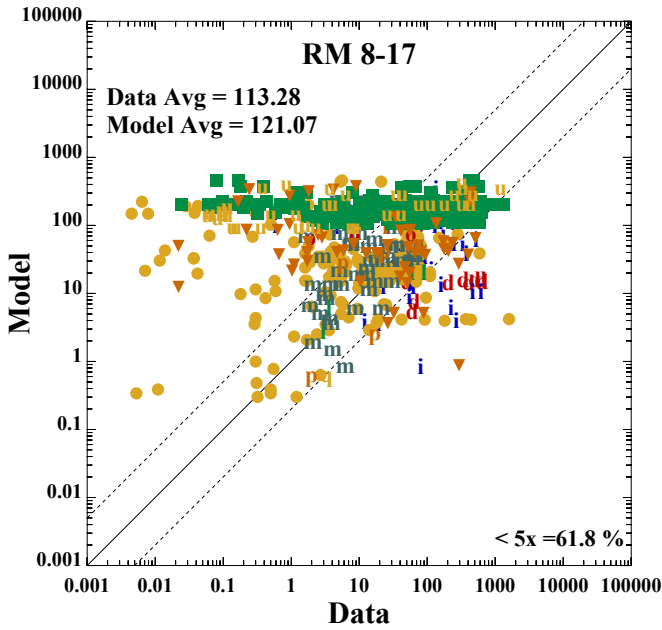
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- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers 4,4-DDD (ug/kg) (PEST1)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

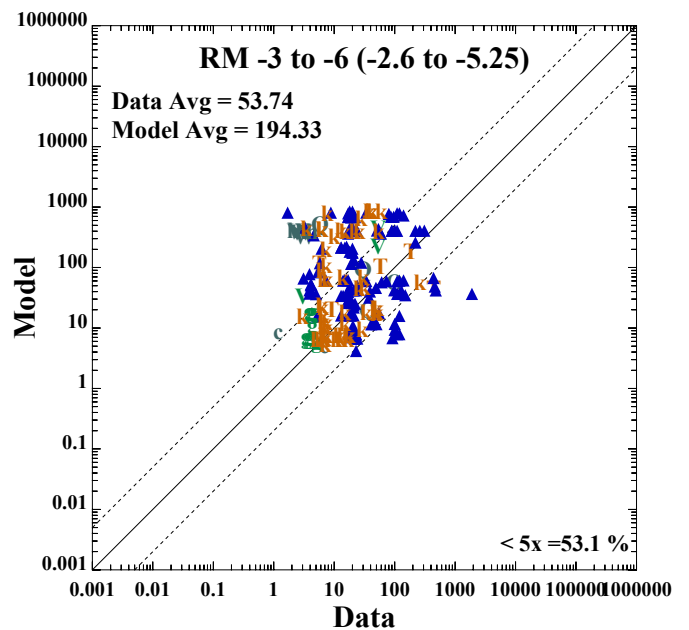
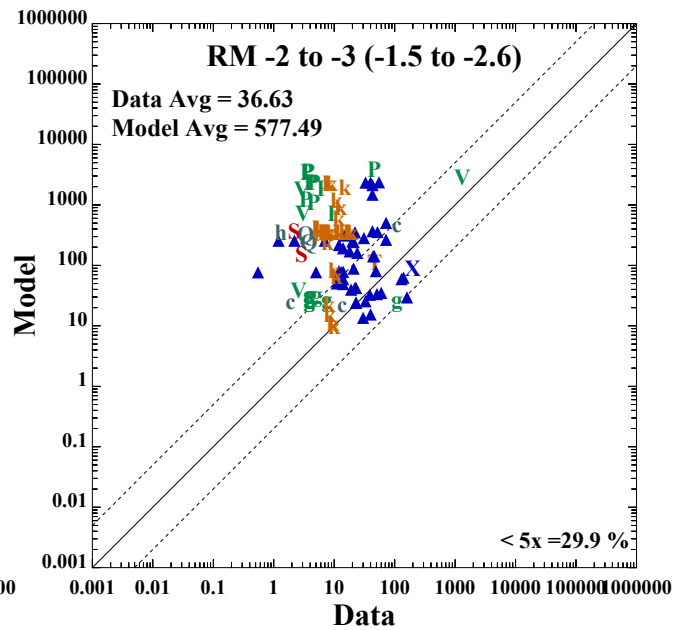
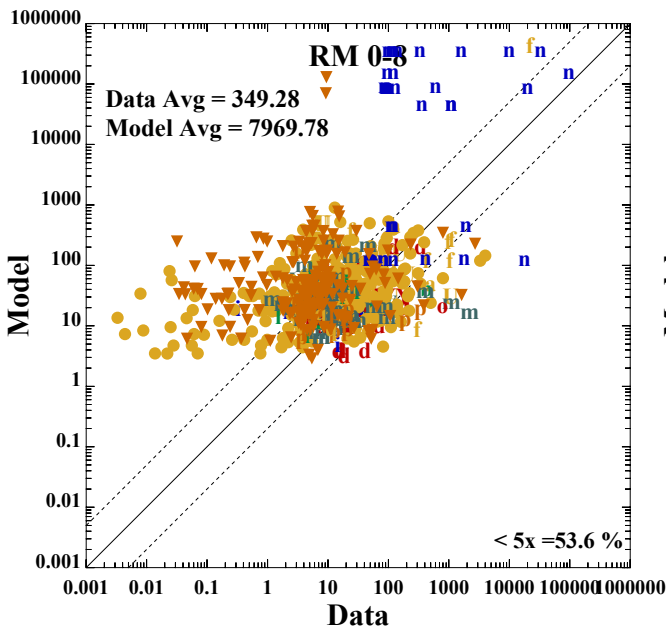
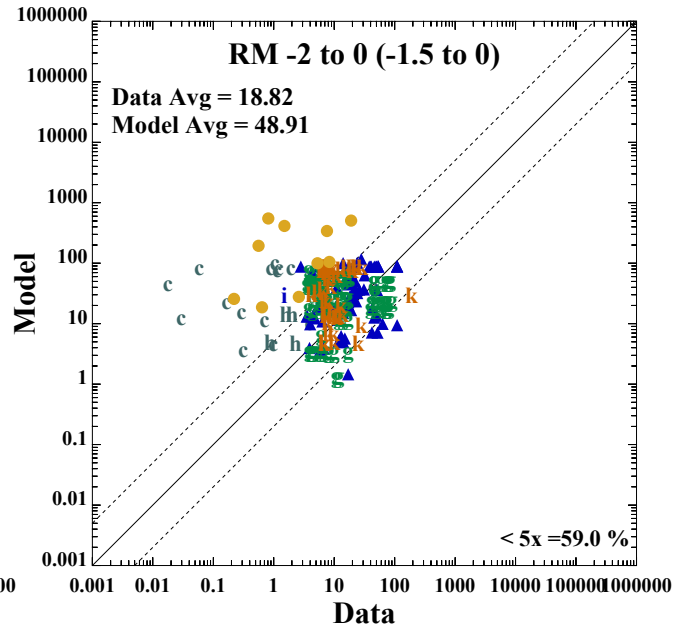
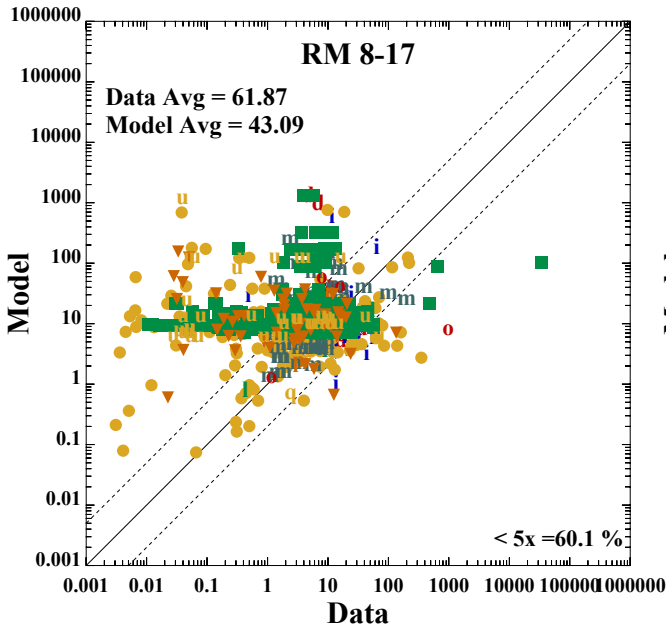
# All Layers 4,4-DDE (ug/kg) (PEST1)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

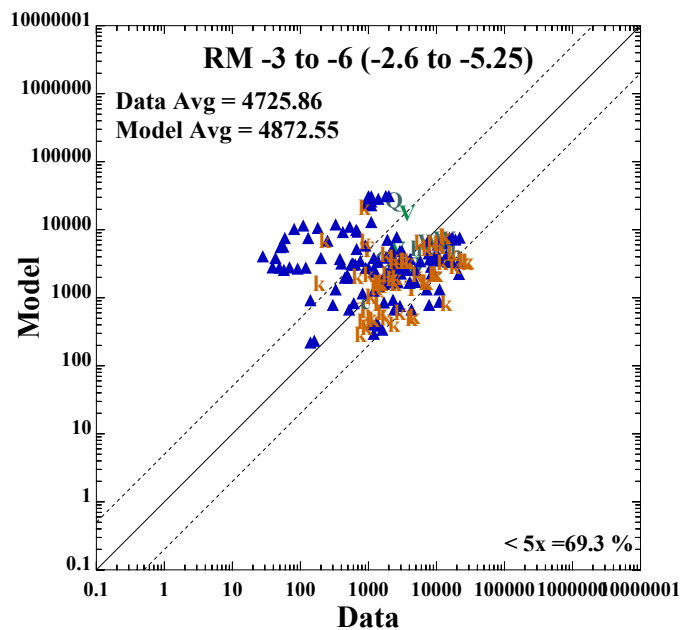
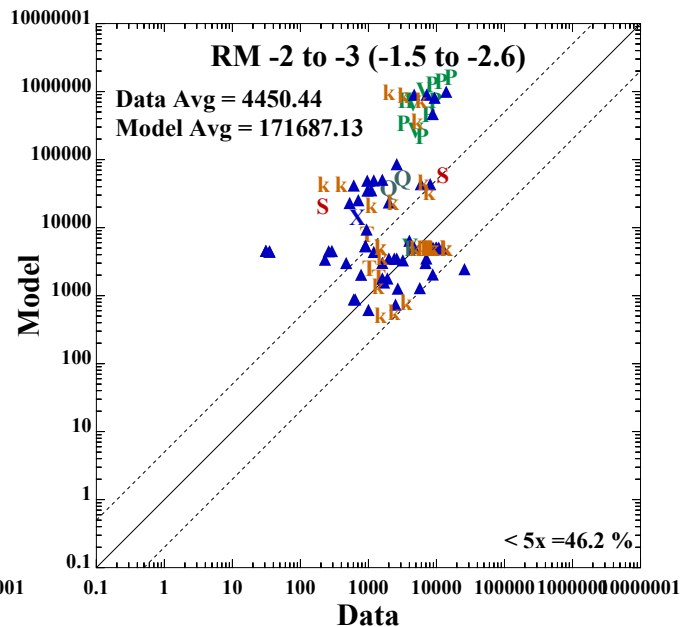
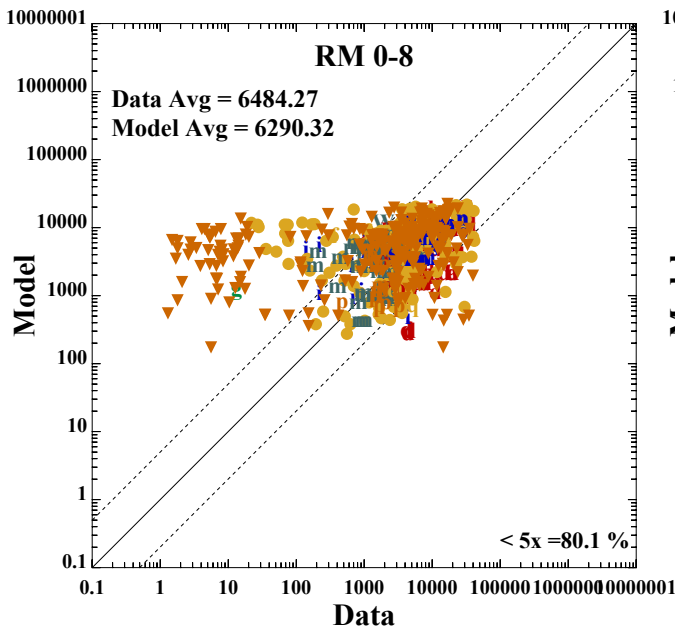
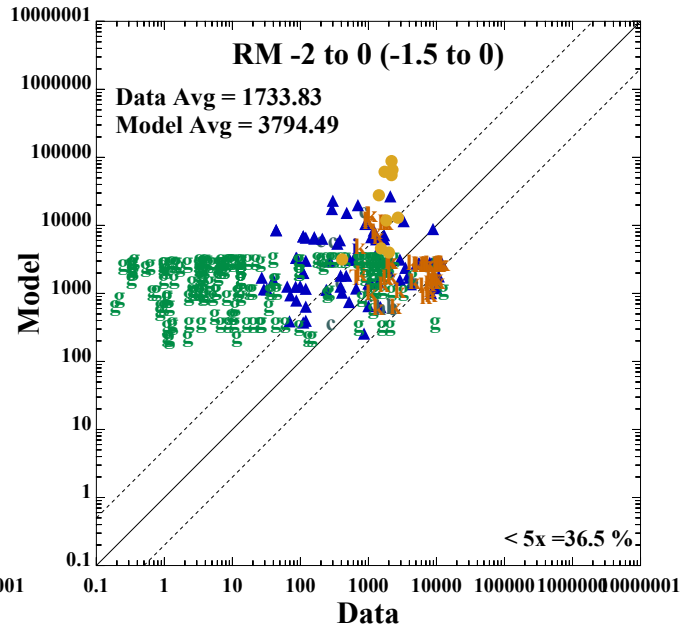
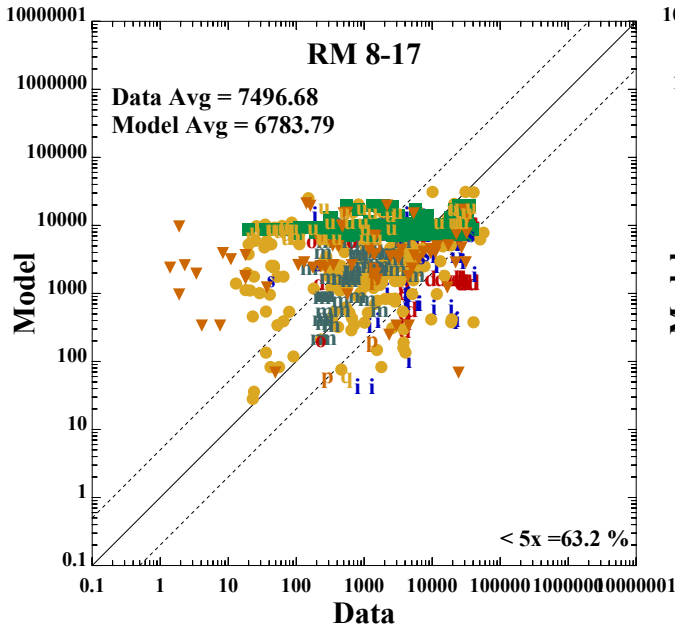


# All Layers 4,4-DDT (ug/kg) (PEST1)



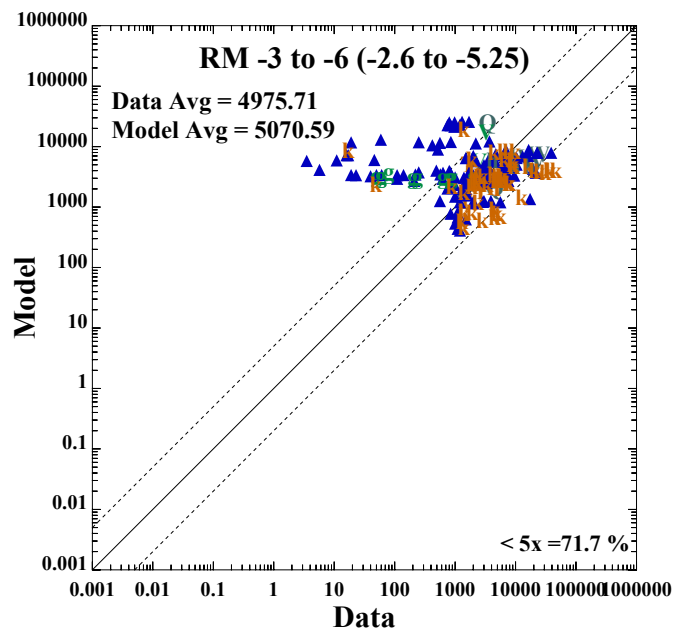
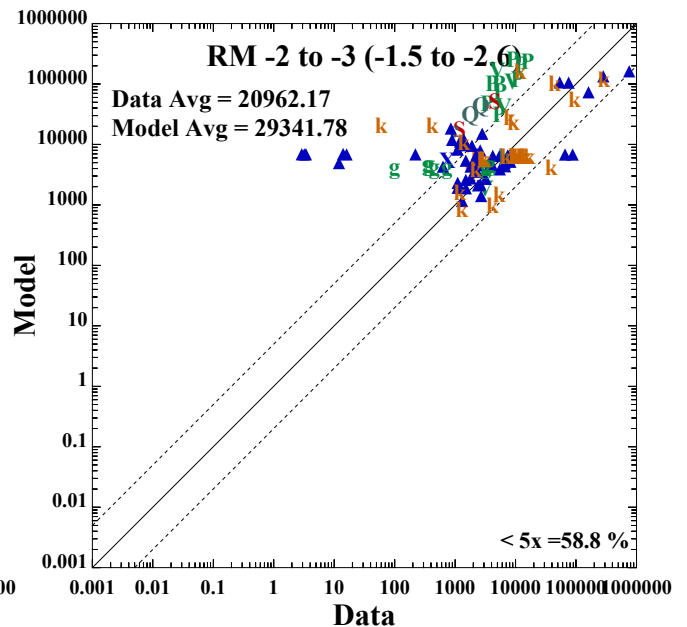
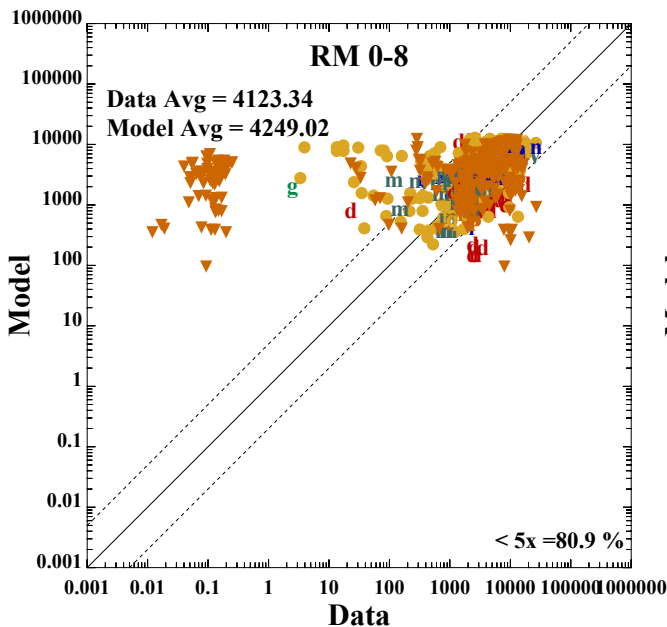
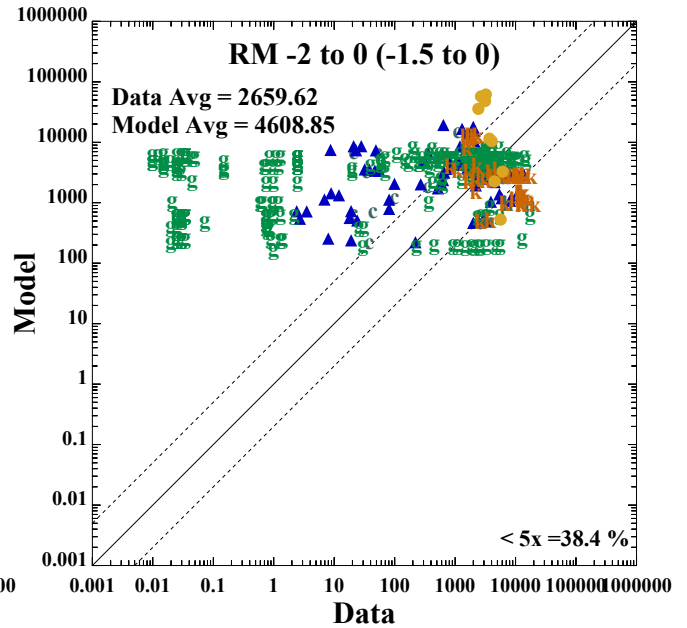
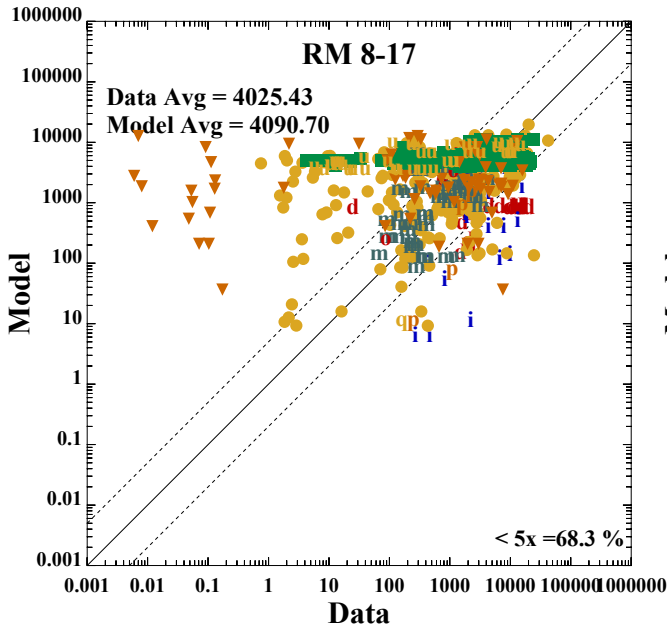
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
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- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers Cadmium (ug/kg) (METALS)



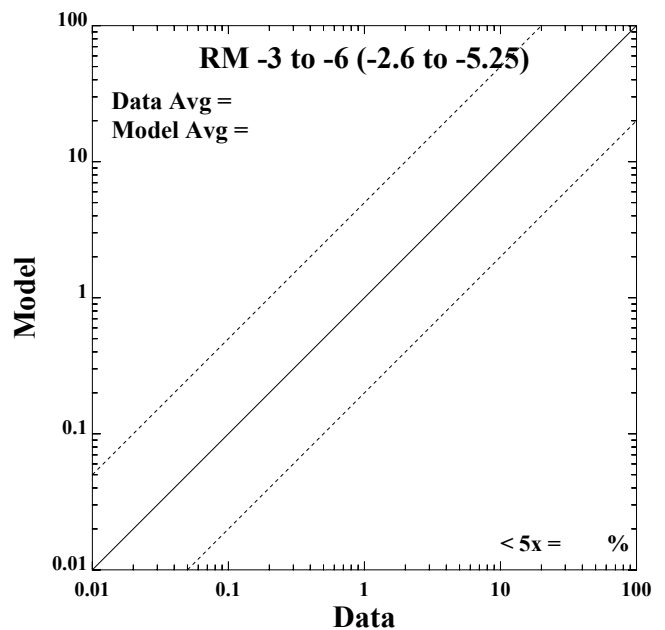
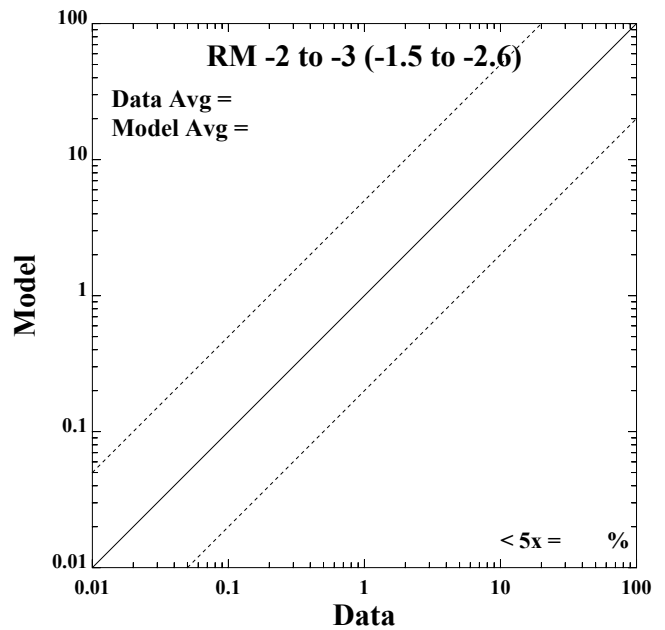
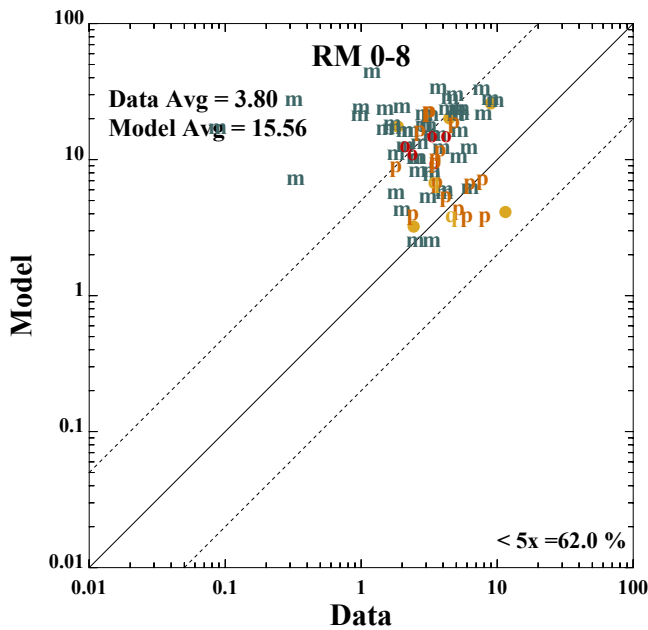
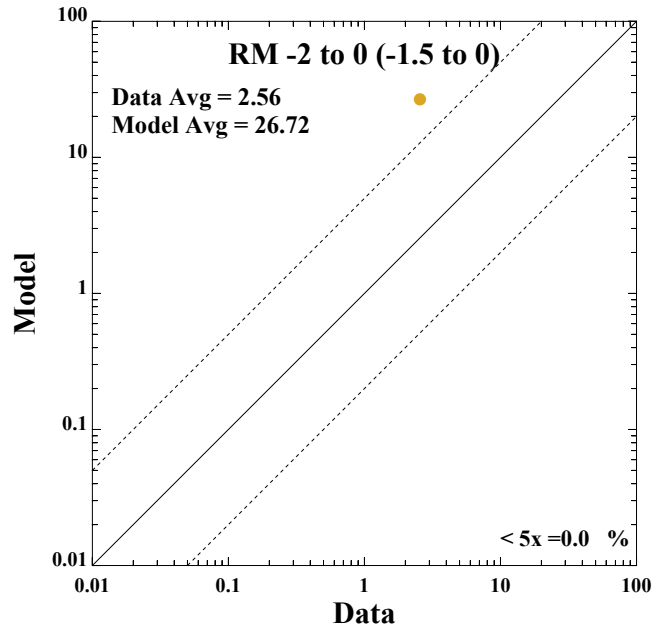
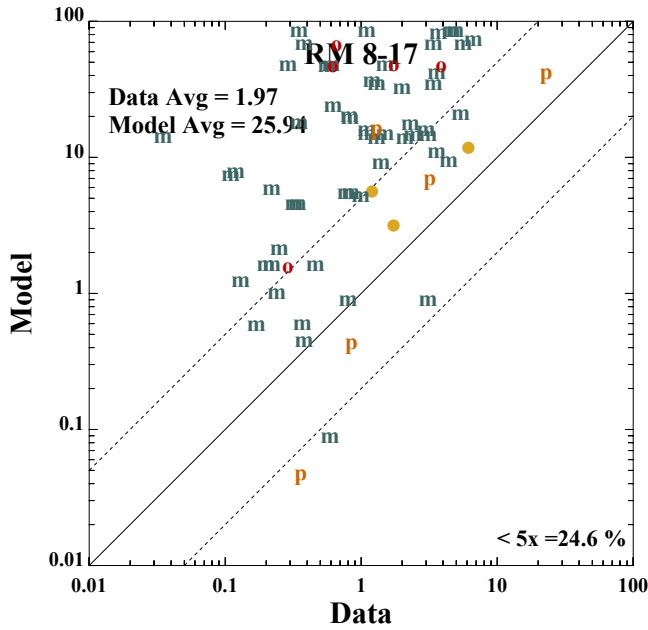
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
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- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers Mercury (ug/kg) (METALS)



- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

# All Layers Methyl mercury (ug/kg) (METALS)

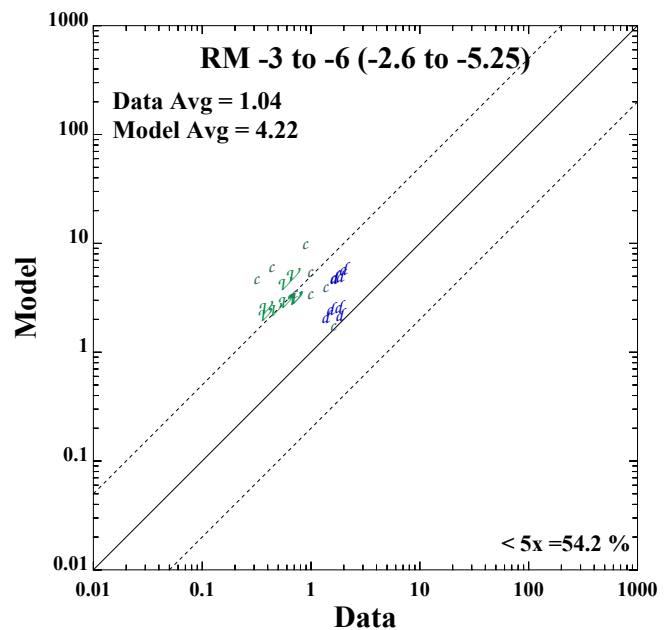
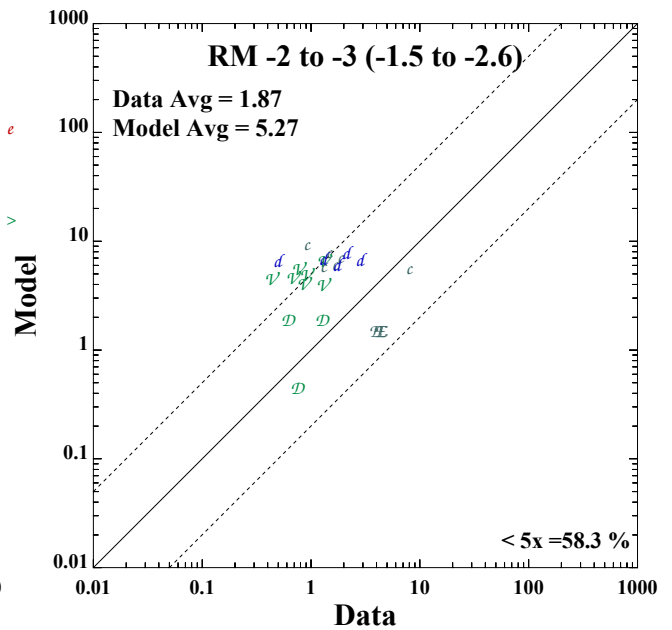
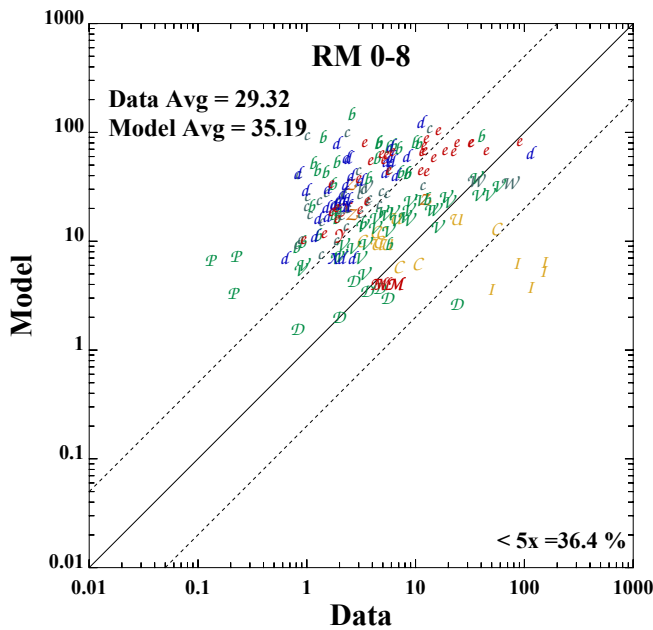
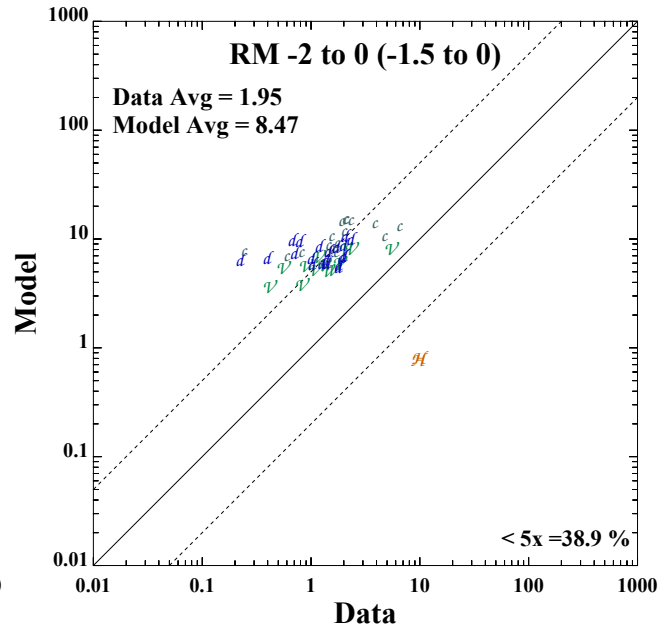
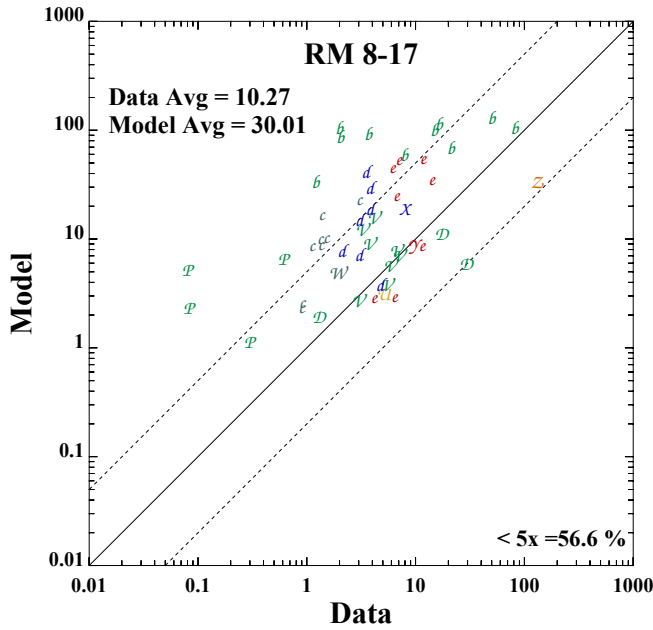


- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- V 1999 Newark Bay Reach ABCD Baseline Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
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- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

**Attachment D-3**

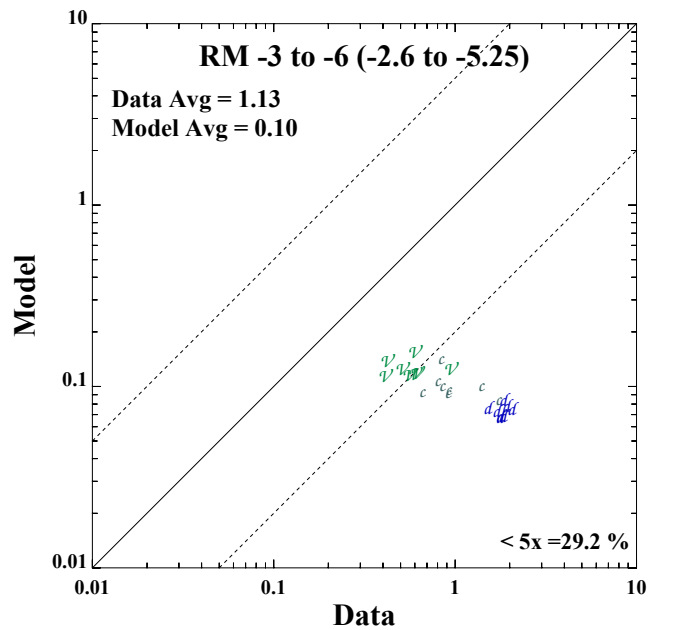
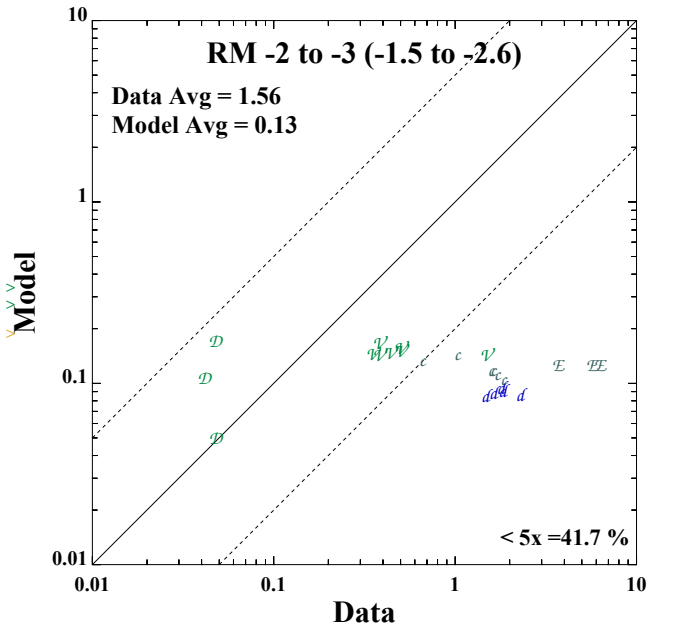
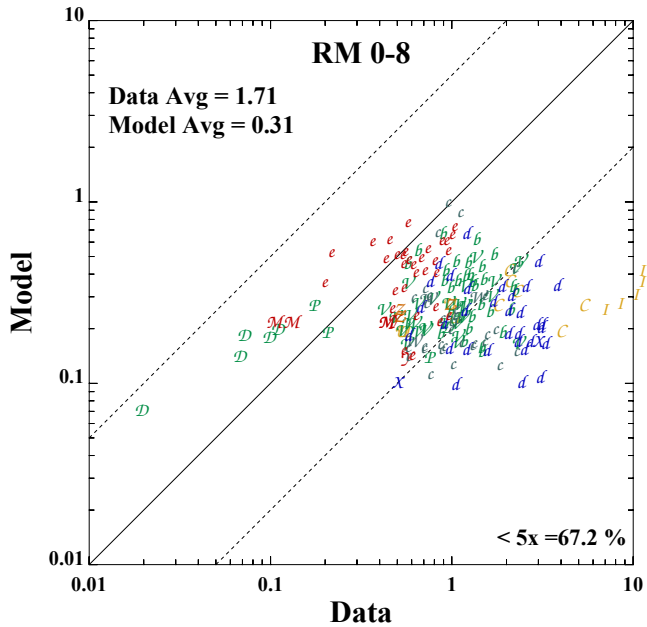
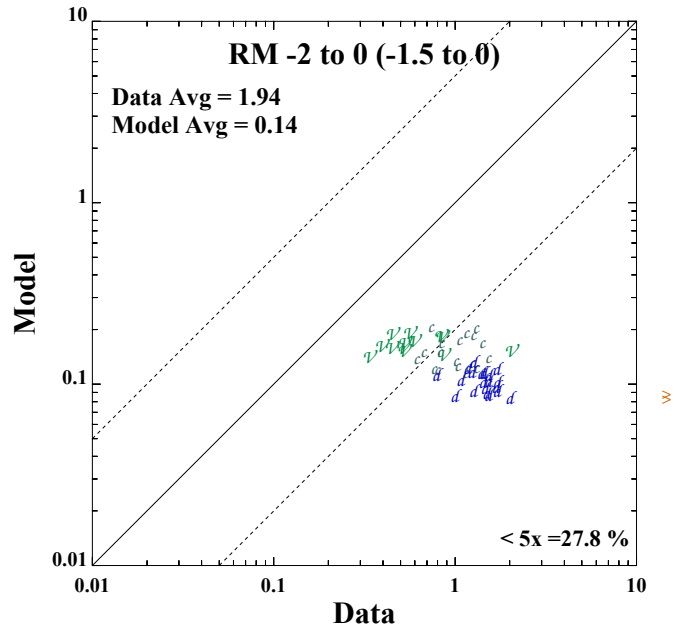
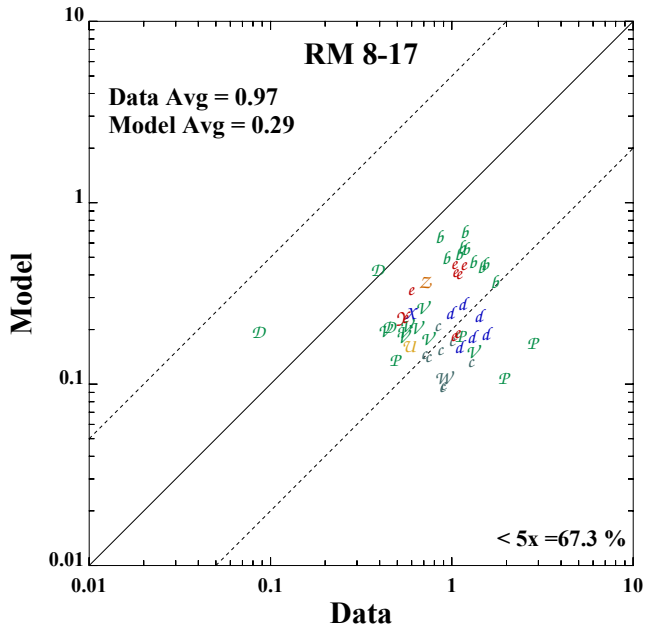
**Water Column X-Y Scatter Plots for All  
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# All Layers 2,3,7,8-TCDD (Dioxin) (pg/L) (DIOXIN1)



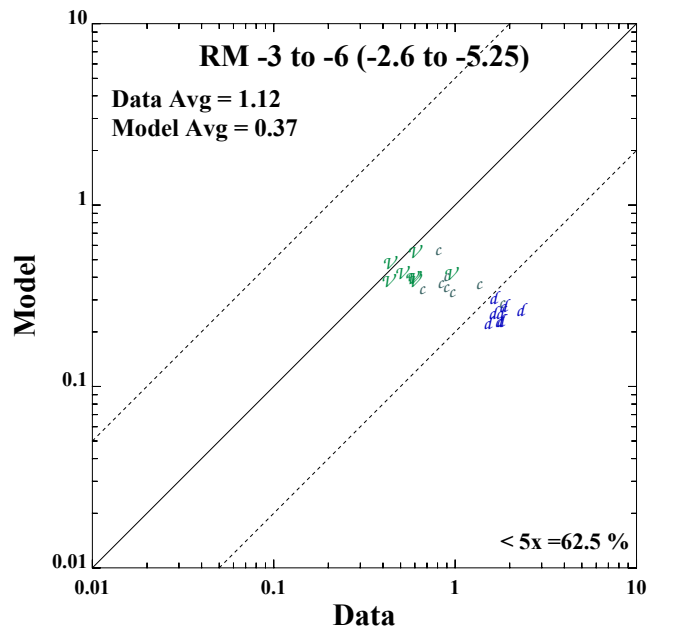
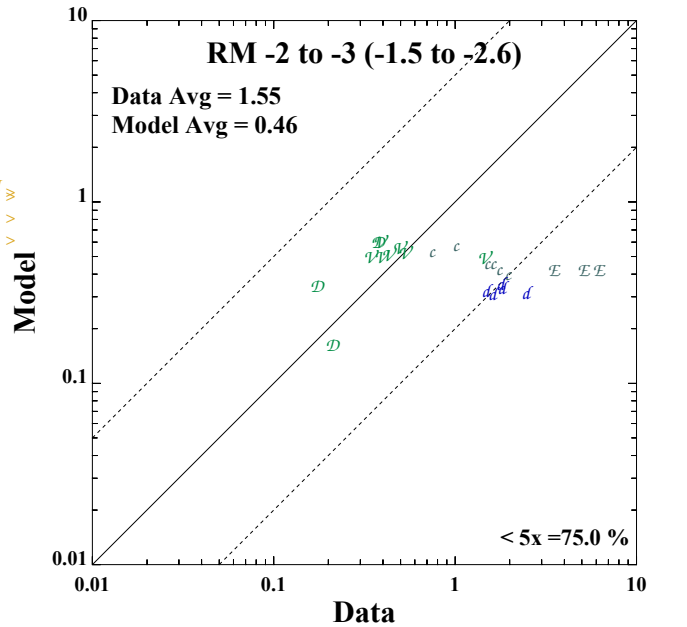
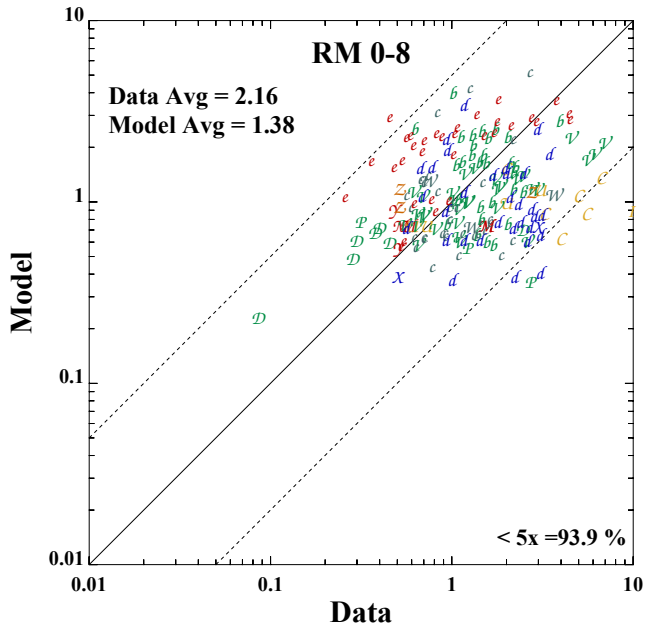
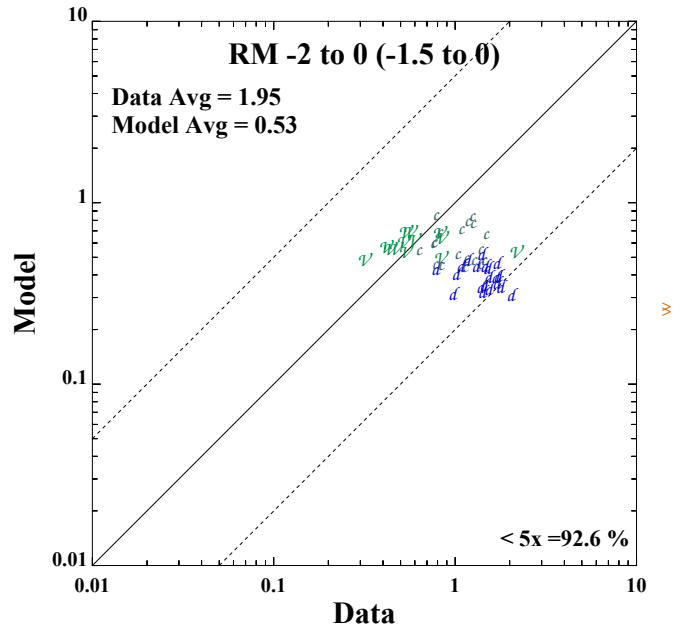
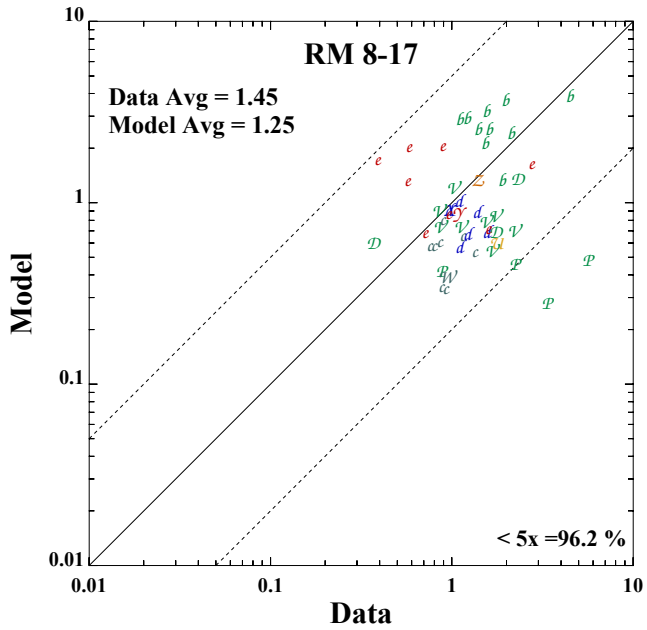
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (pg/L) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

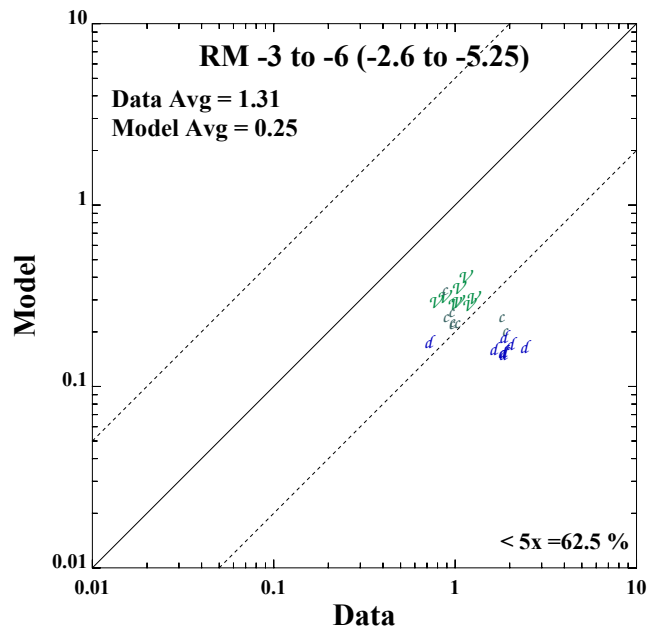
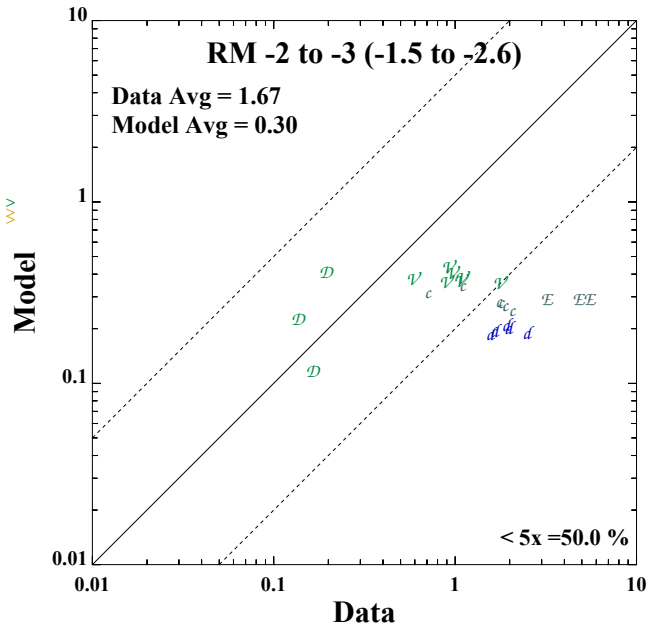
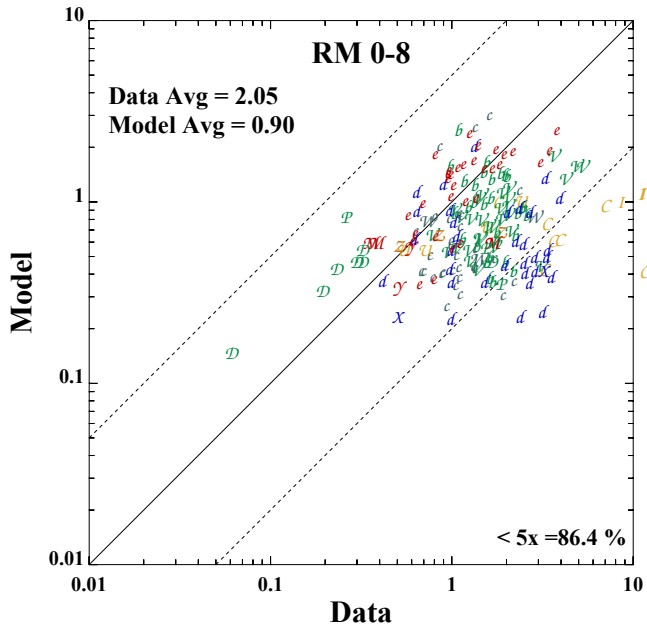
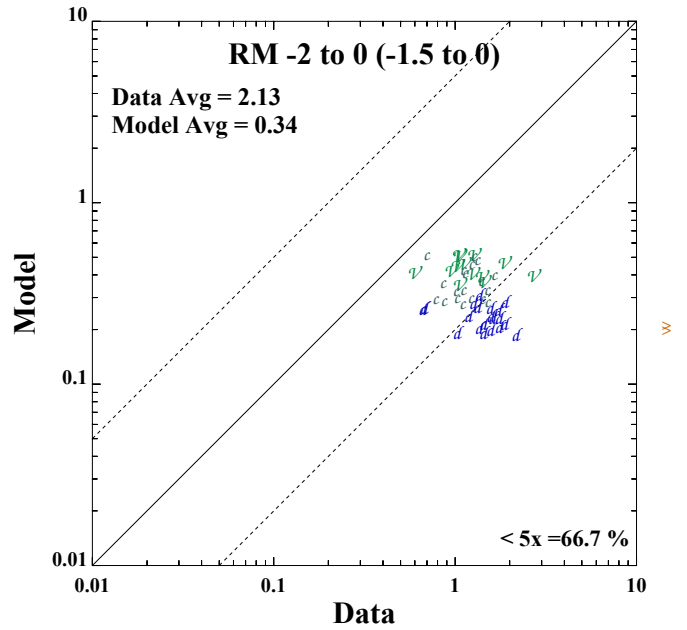
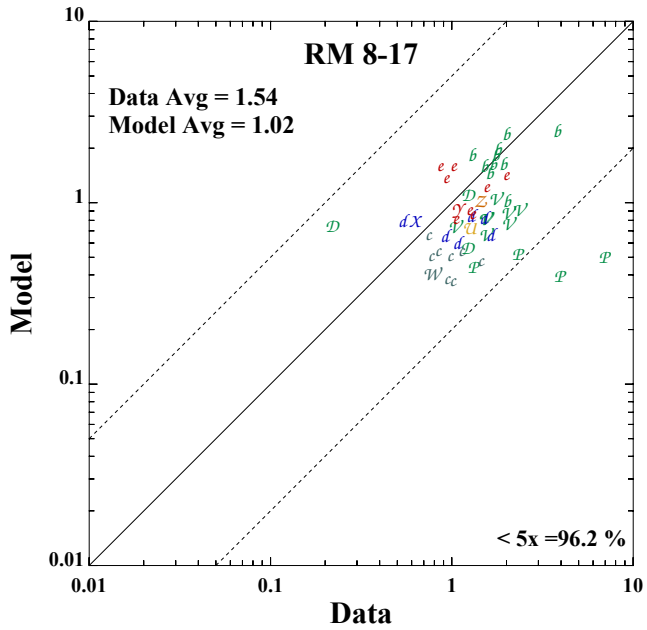
# All Layers 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (pg/L) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
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- H* 1999-2006 Honeywell Intl Sampling
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

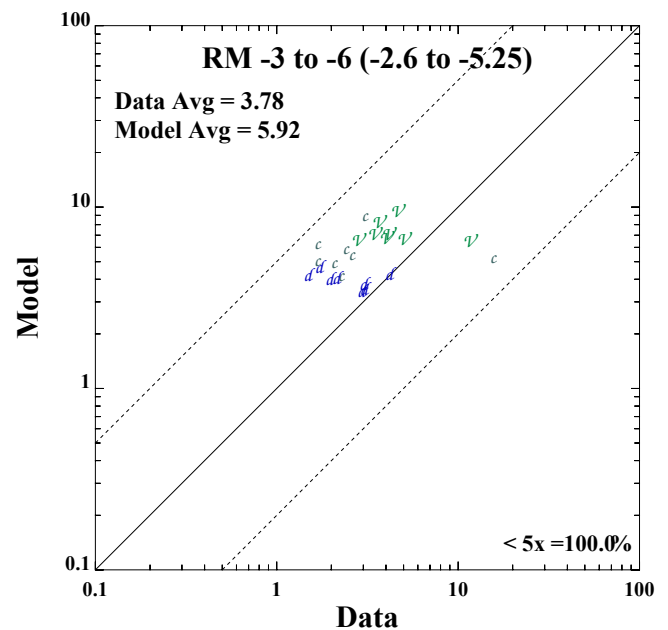
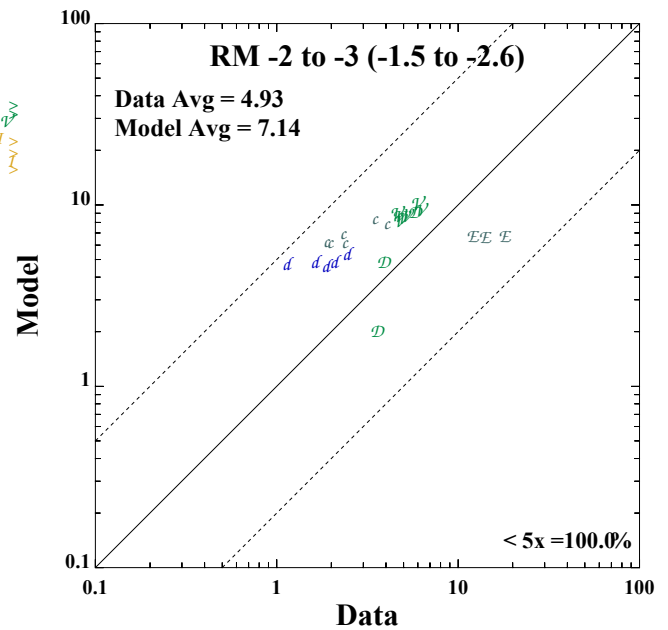
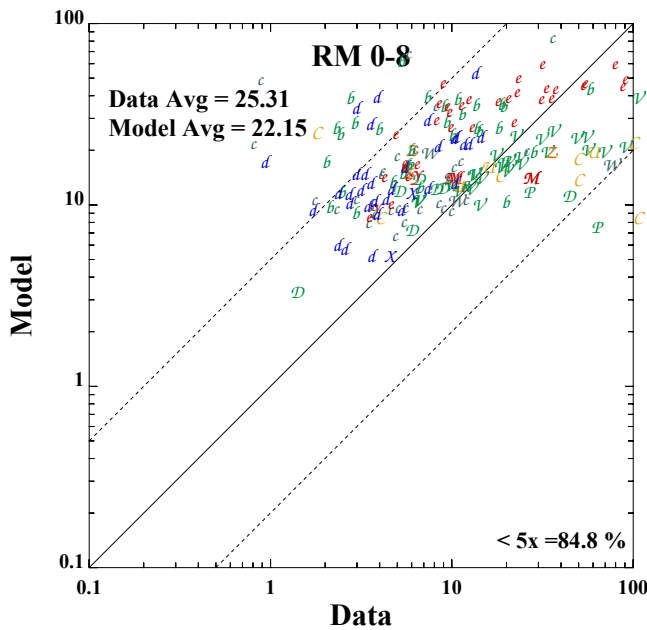
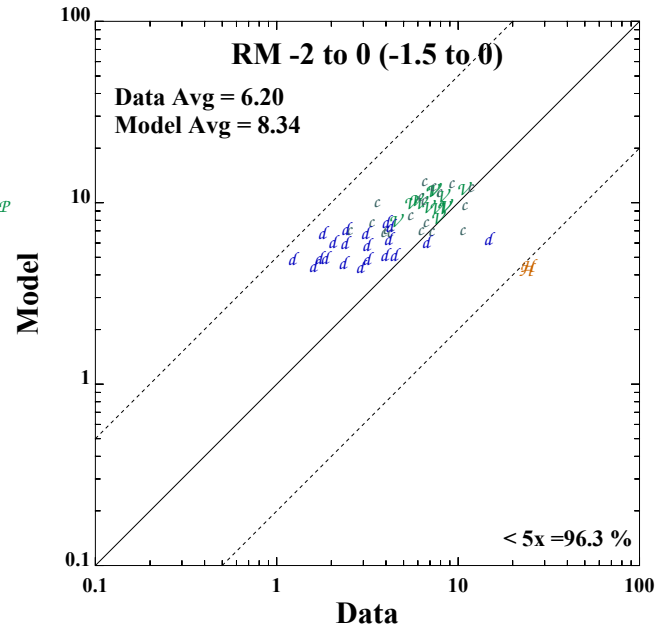
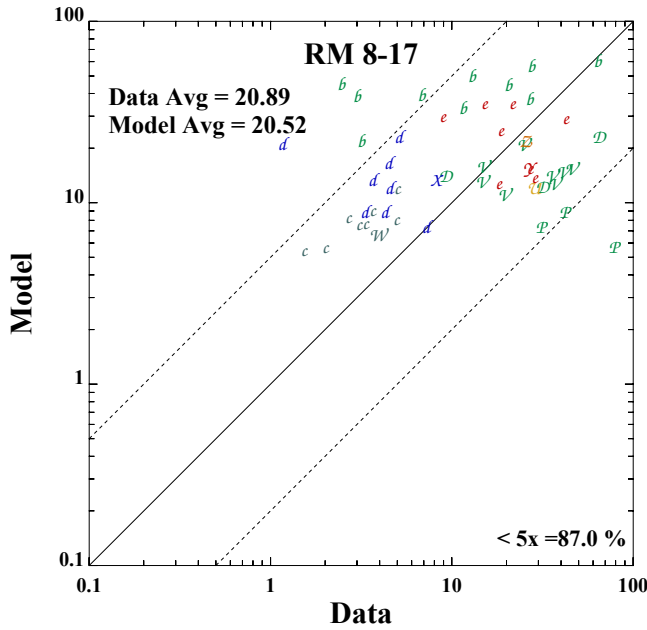


# All Layers 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (pg/L) (DIOXIN1)



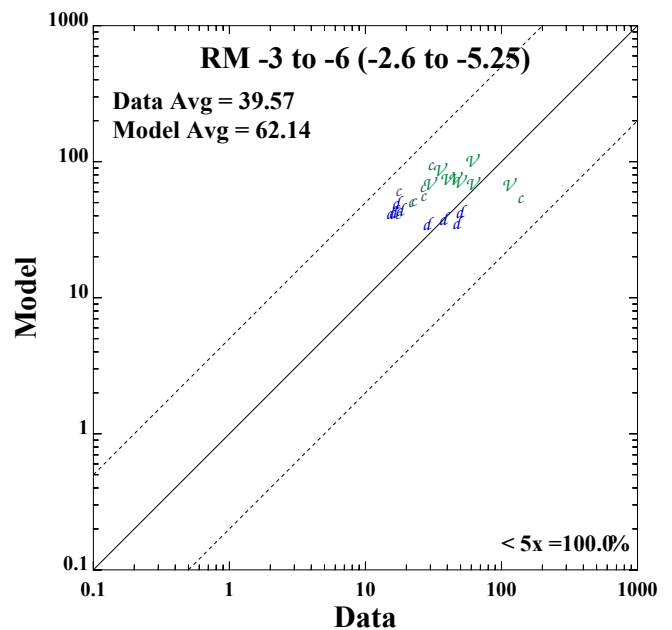
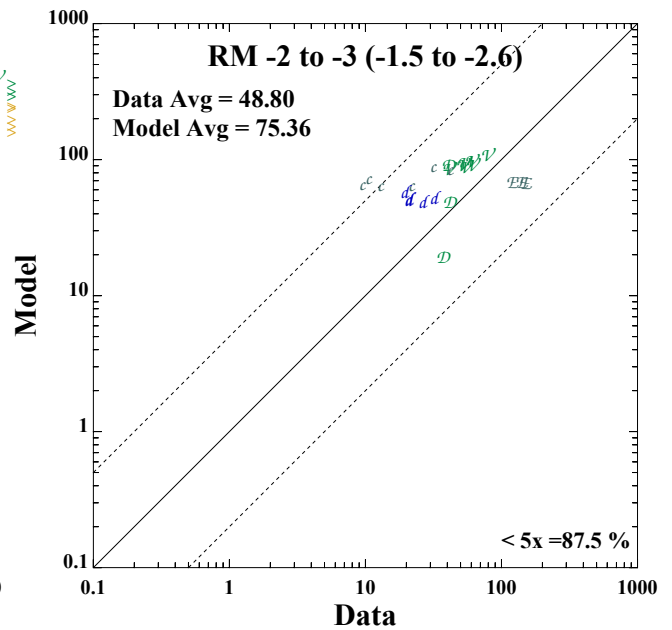
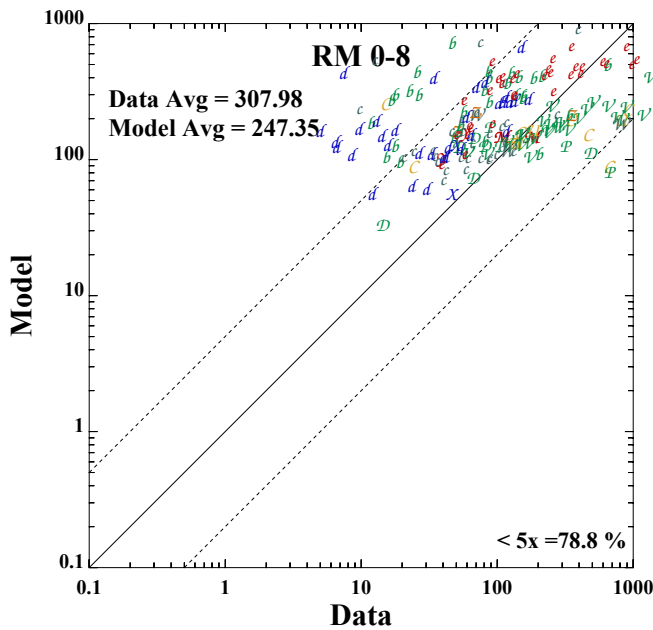
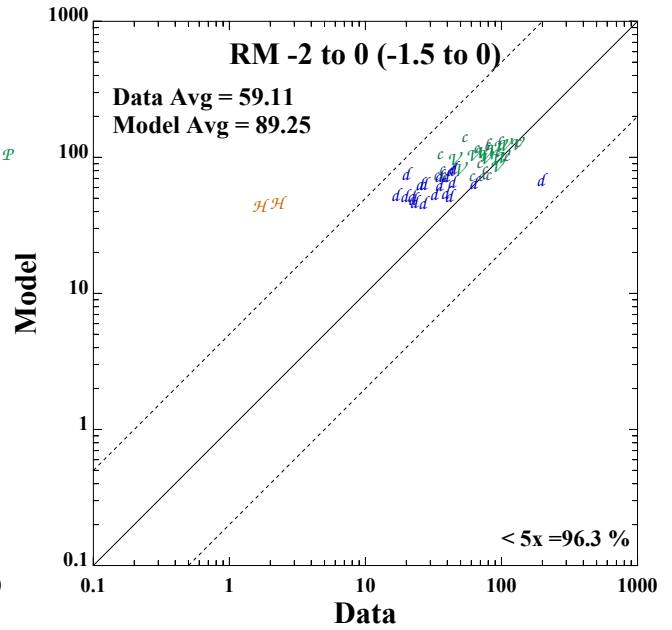
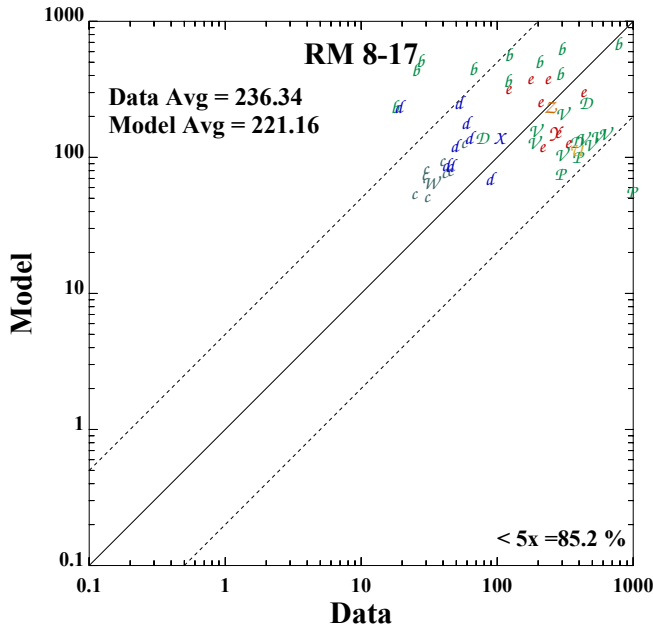
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (pg/L) (DIOXIN1)



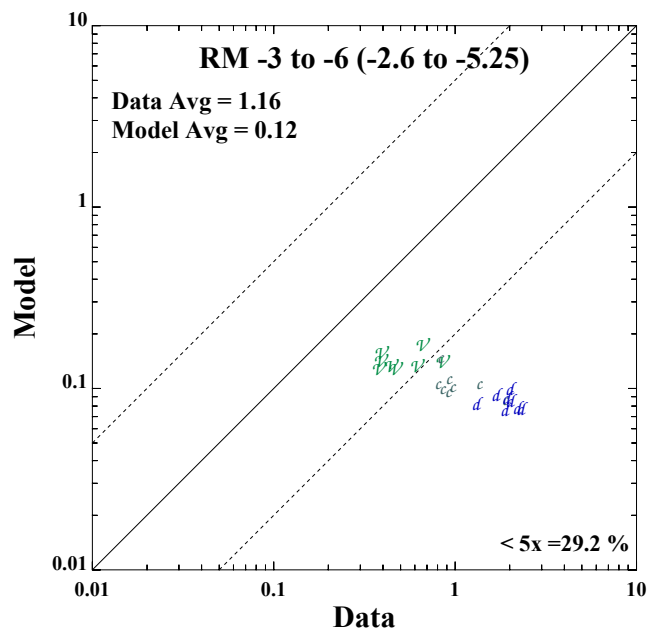
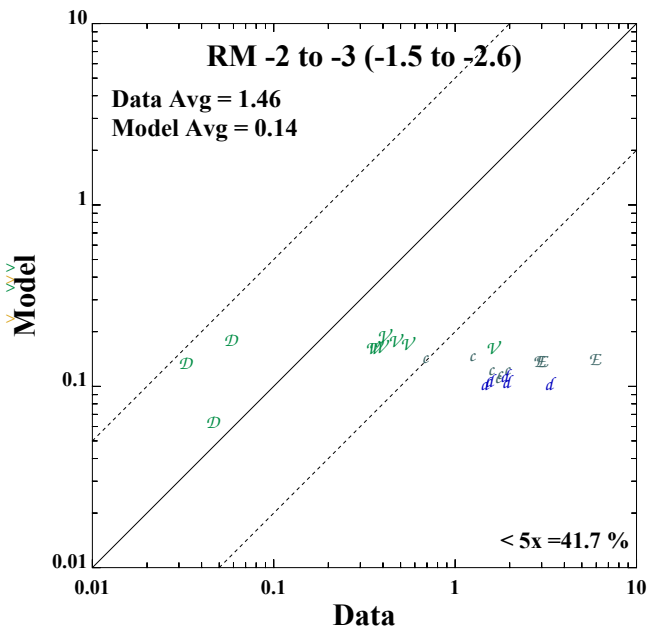
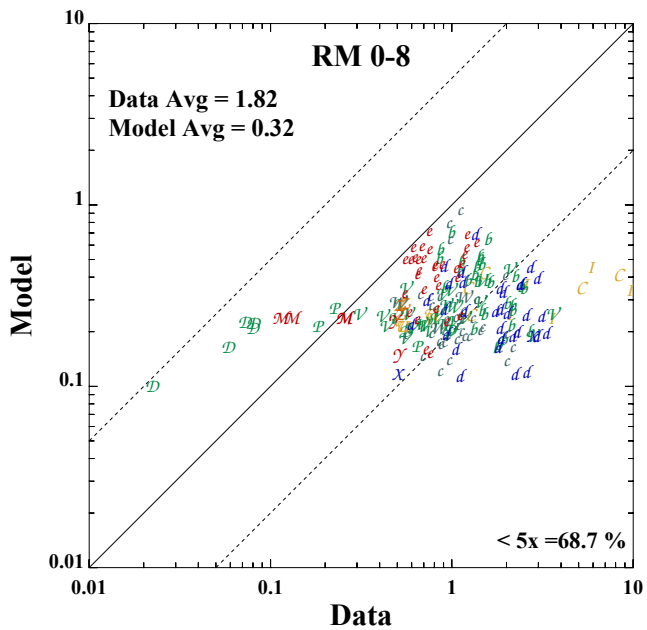
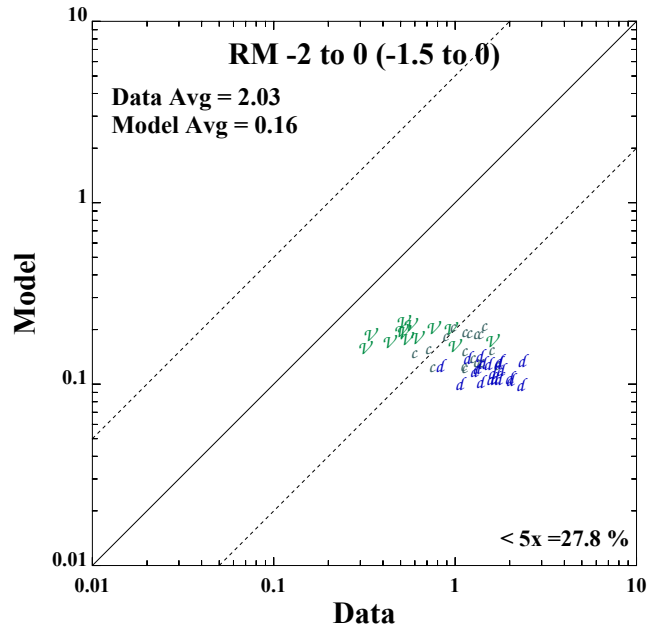
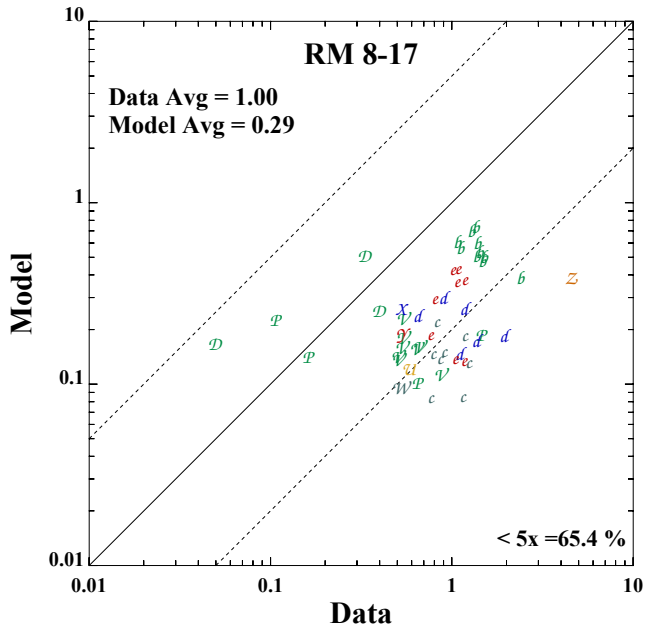
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers OCDD (pg/L) (DIOXIN1)



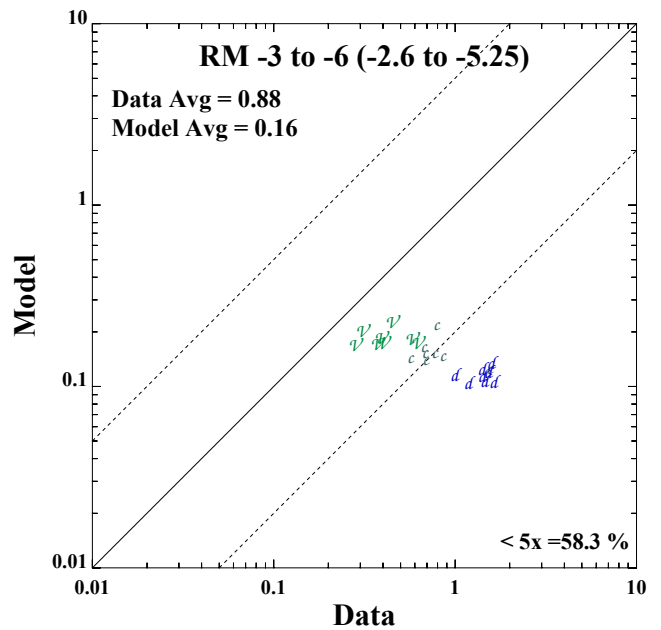
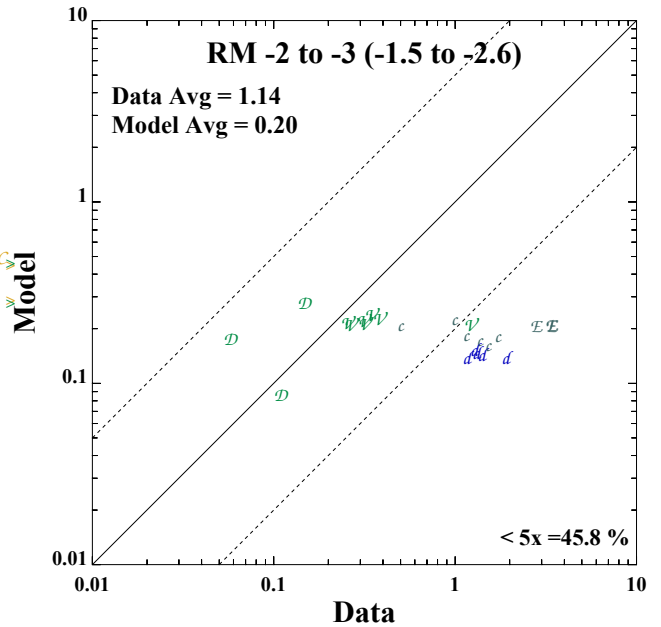
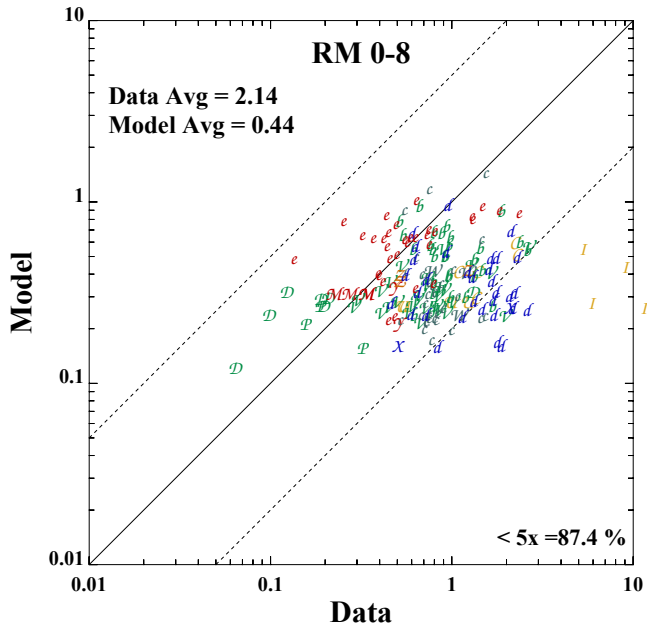
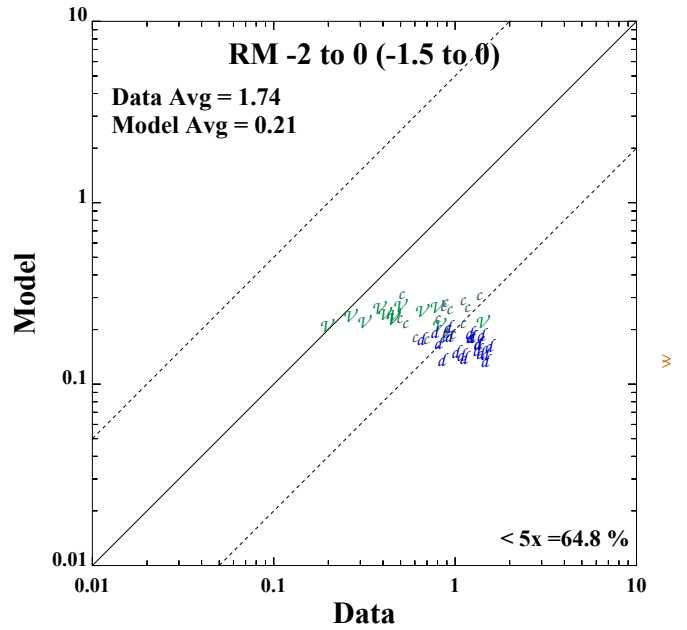
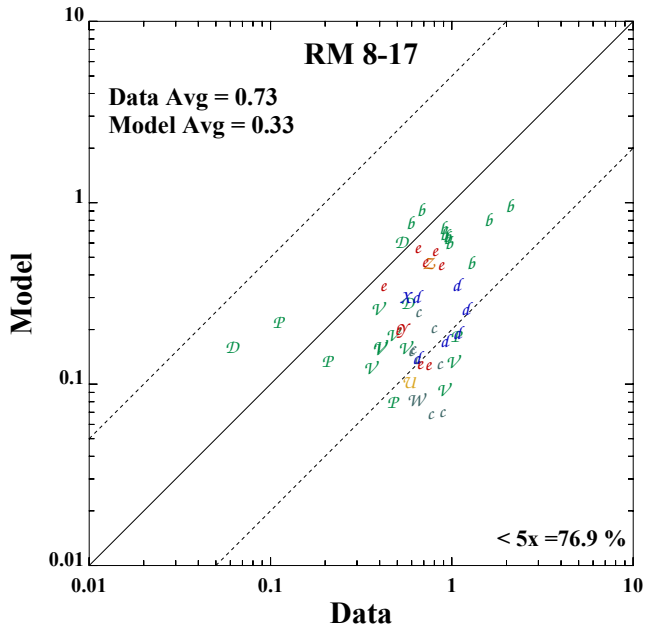
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (pg/L) (DIOXIN2)



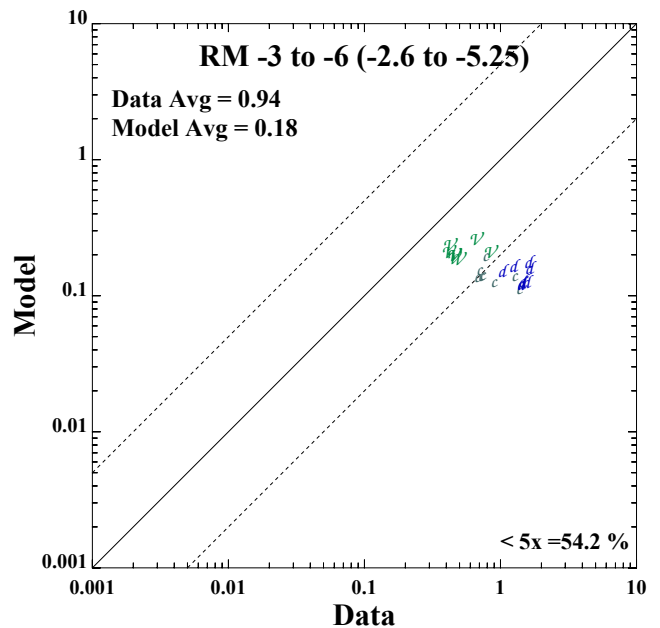
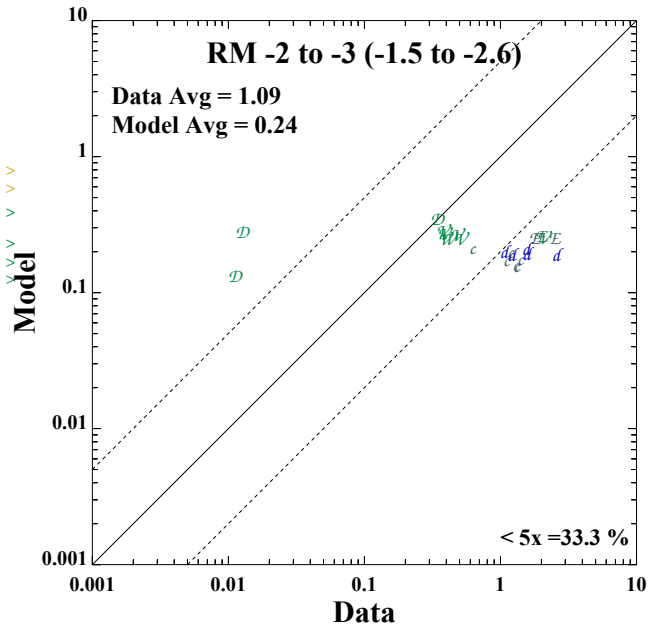
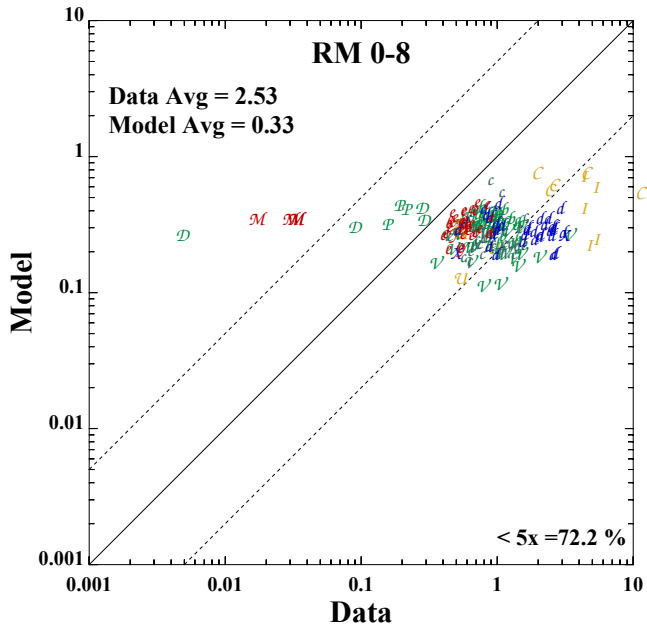
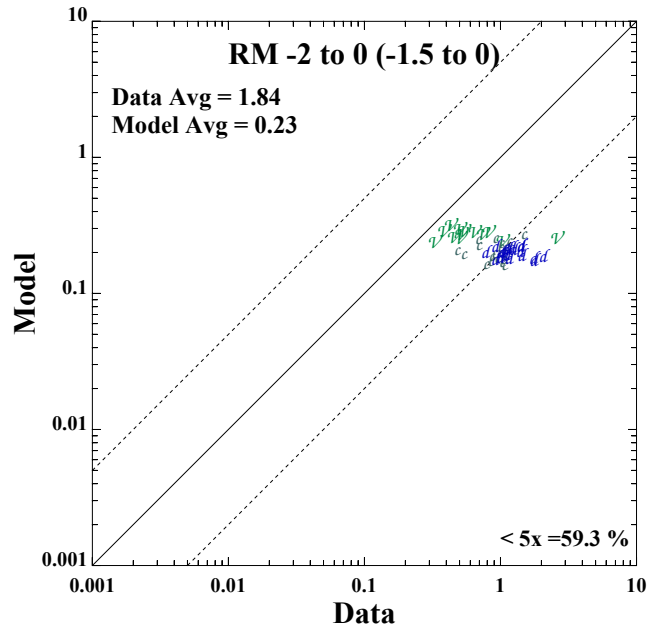
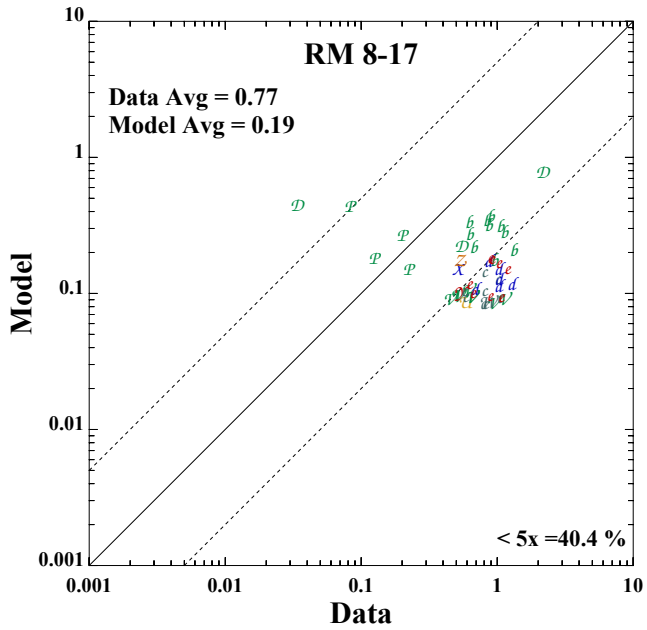
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
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- K 2005 MPI SPMD Deployment
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- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,7,8-Pentachlorodibenzofuran (pg/L) (DIOXIN2)



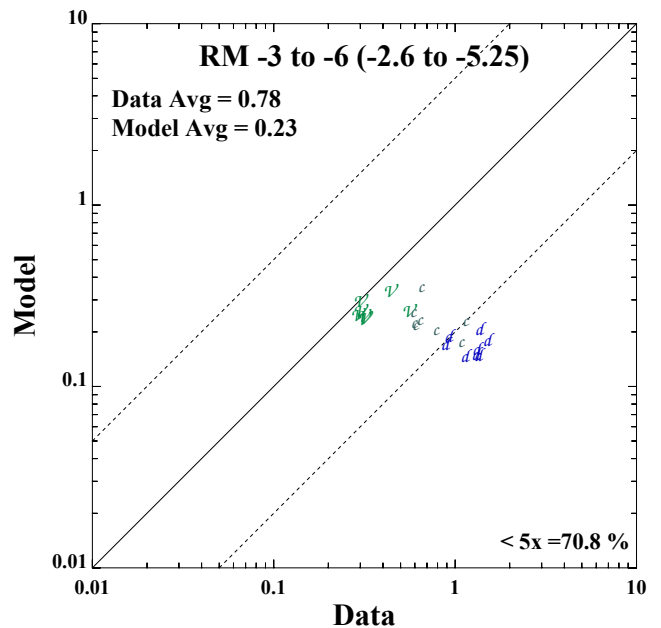
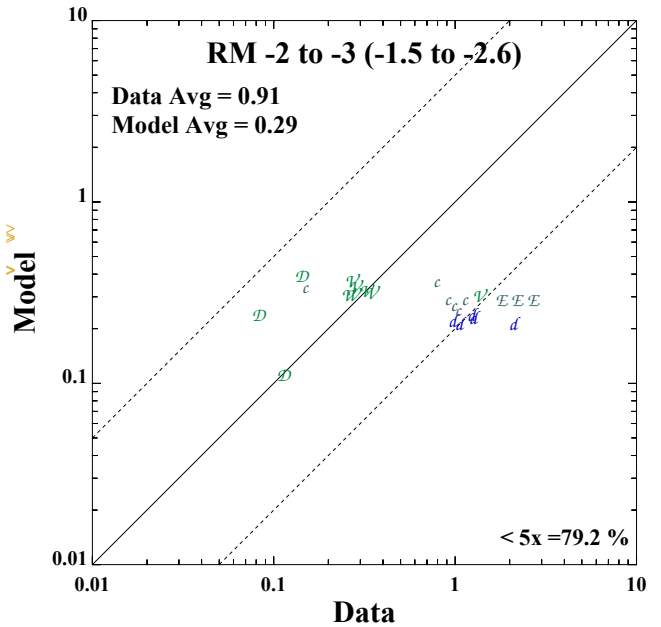
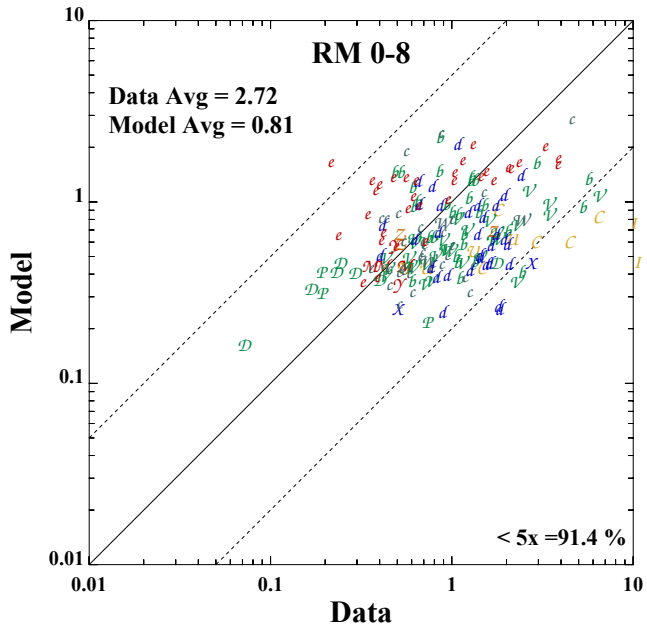
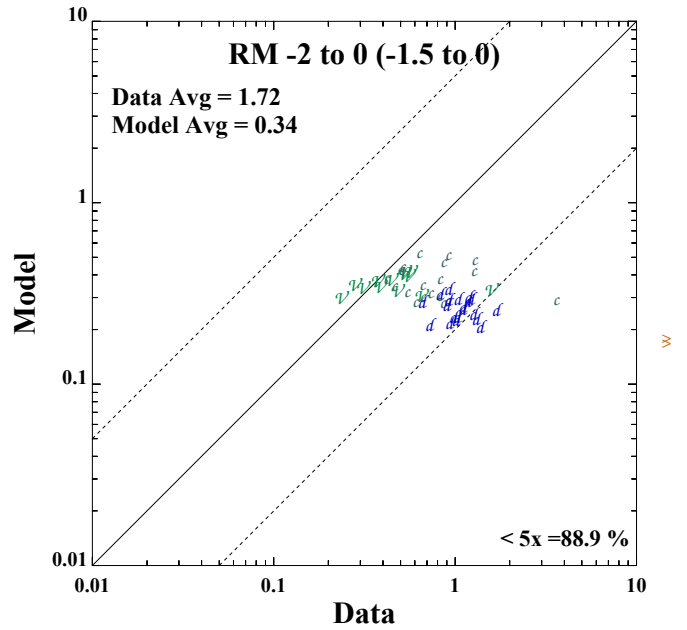
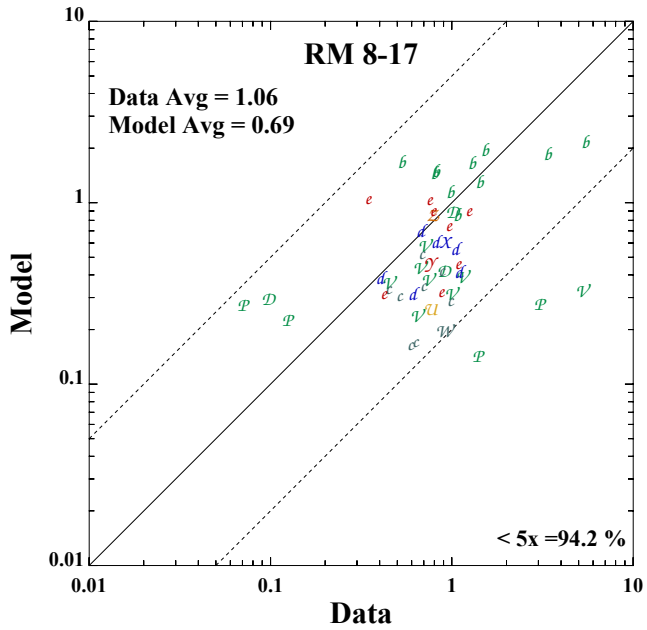
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- H* 1999-2006 Honeywell Intl Sampling
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,7,8,9-Hexachlorodibenzofuran (pg/L) (DIOXIN2)



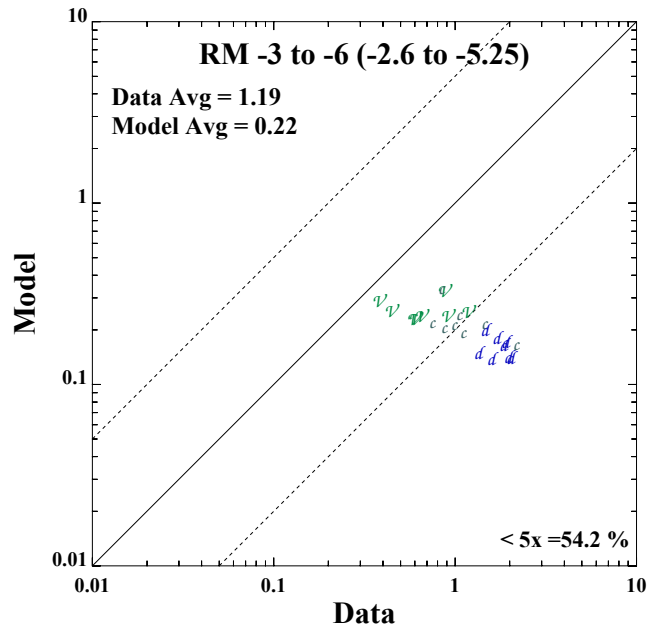
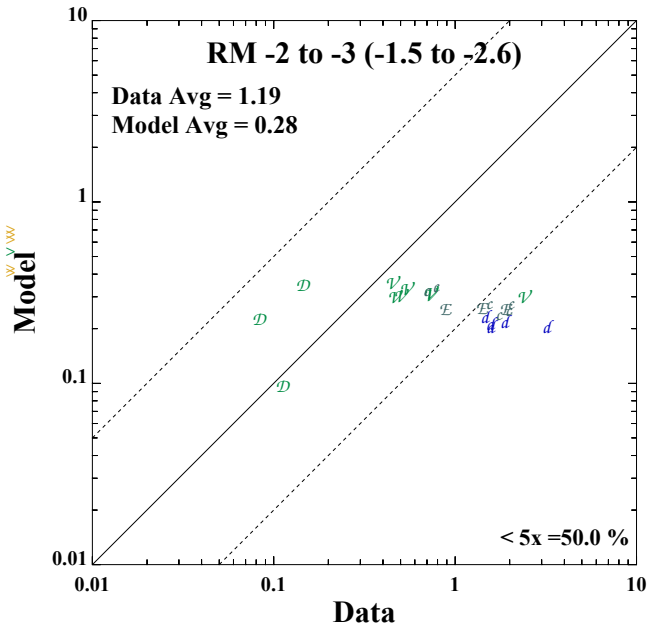
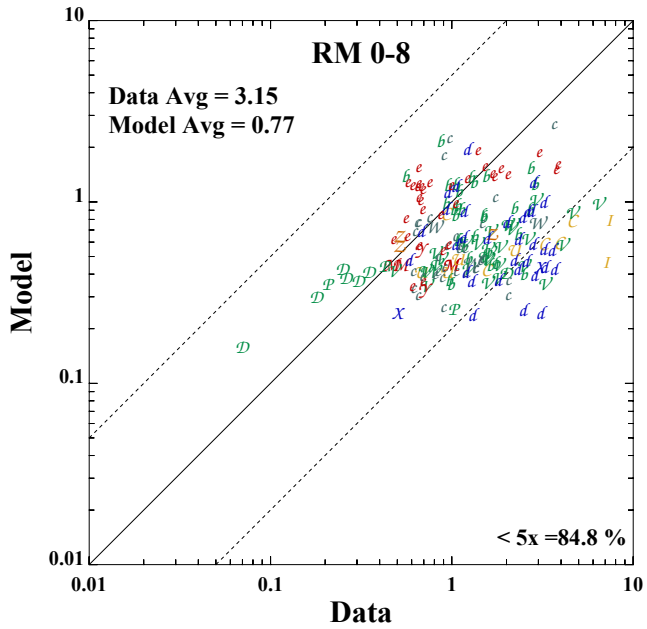
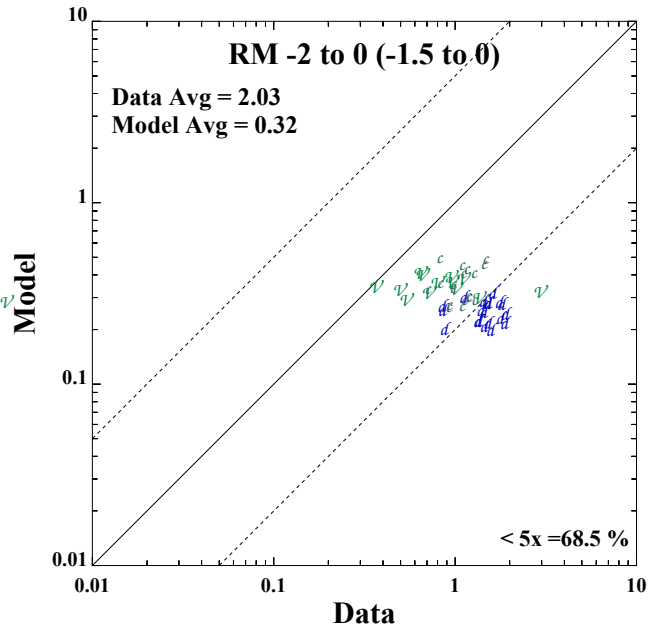
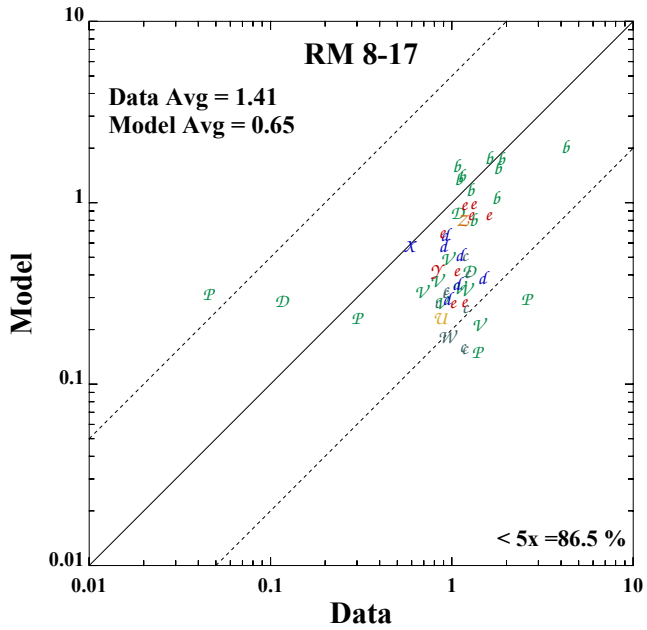
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- E* 1999 Newark Bay Reach A Monitoring
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- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

## All Layers 2,3,4,6,7,8-Hexachlorodibenzofuran (pg/L) (DIOXIN2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

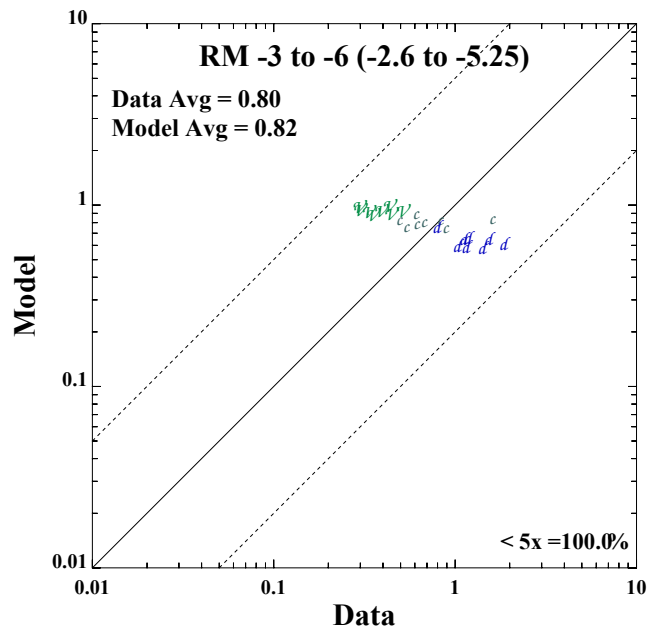
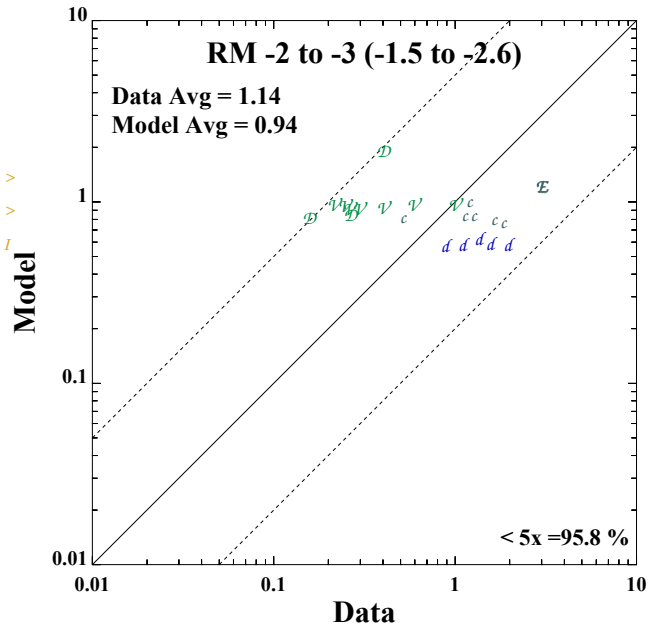
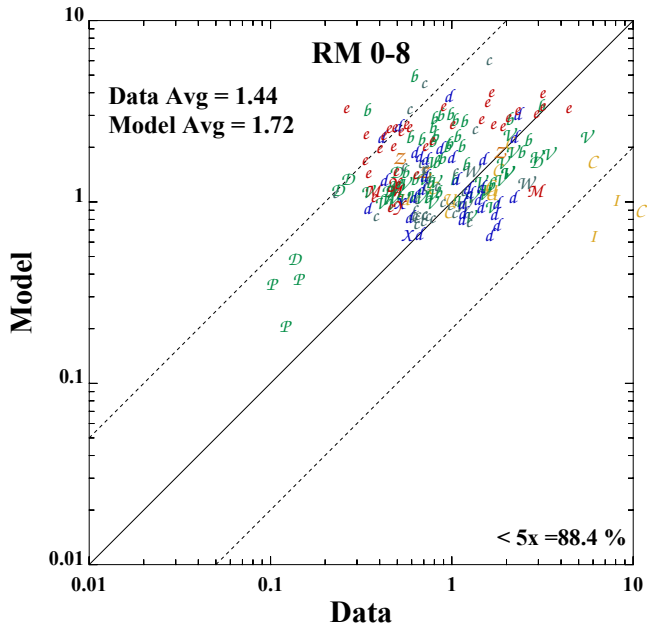
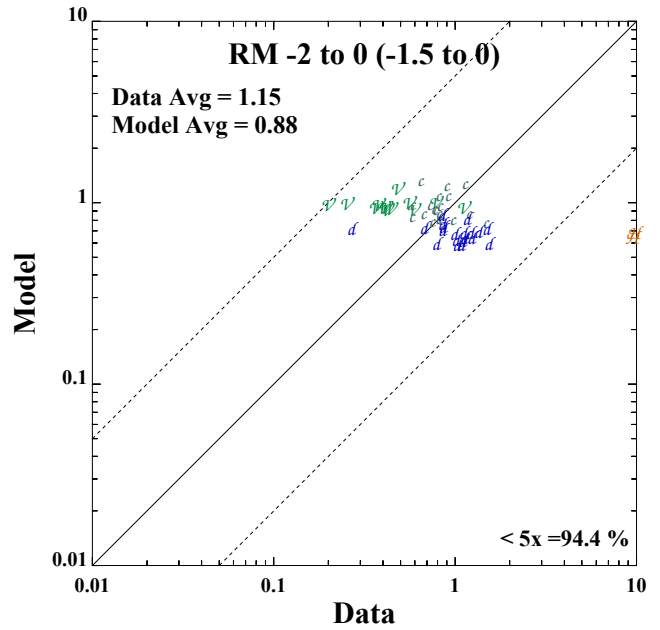
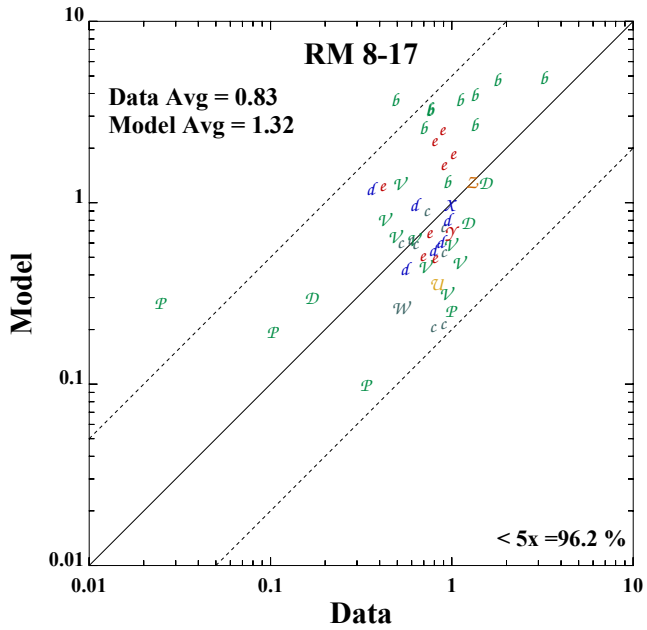
# All Layers 1,2,3,4,7,8,9-Heptachlorodibenzofuran (pg/L) (DIOXIN2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- F* 1999 Newark Bay Reach ABCD Baseline Sampling
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- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

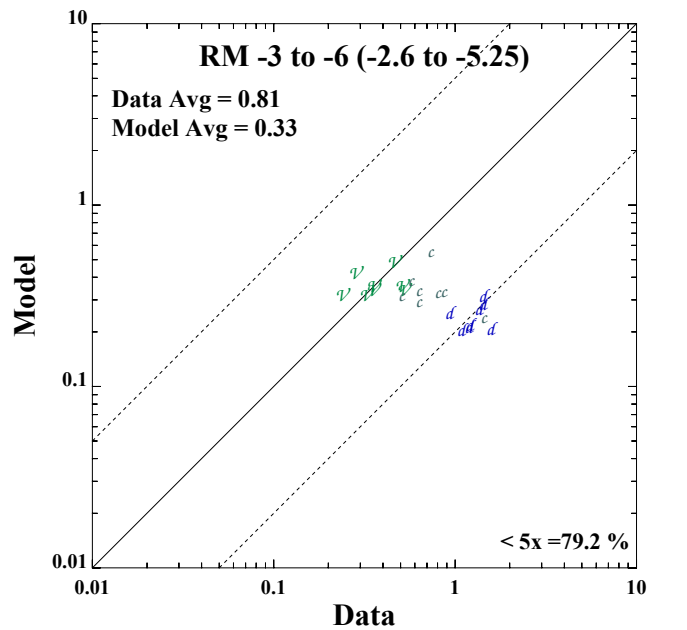
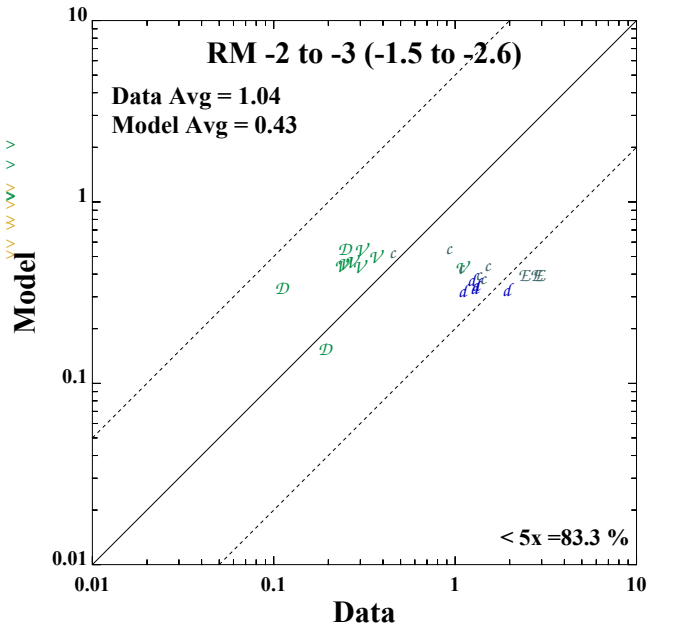
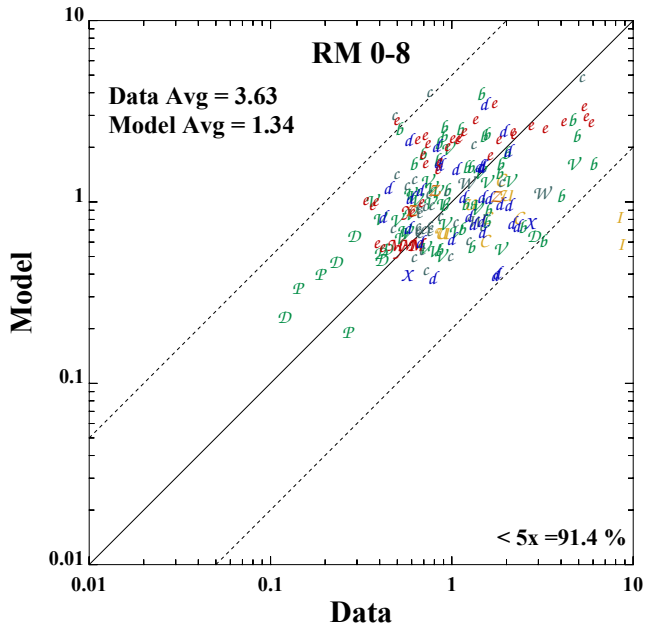
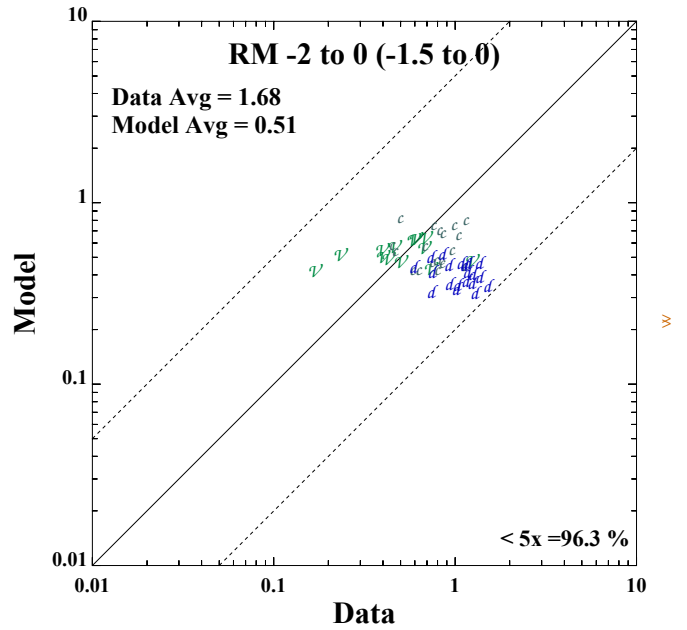
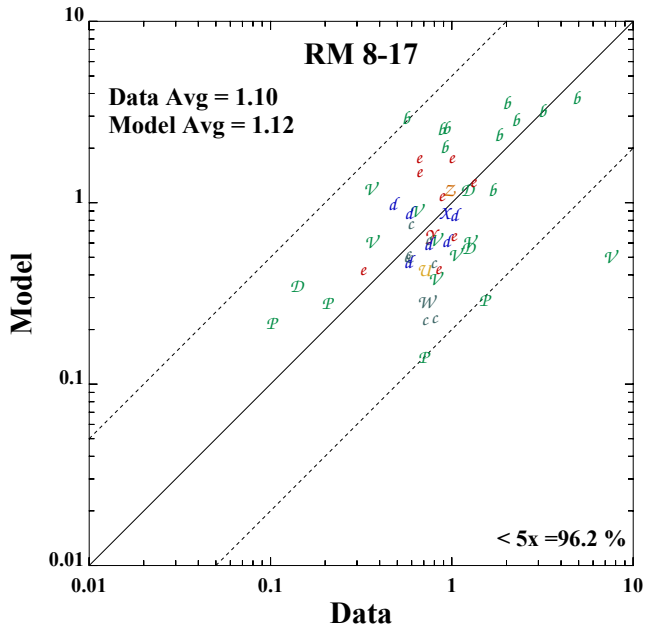


# All Layers 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (pg/L) (DIOXIN3)



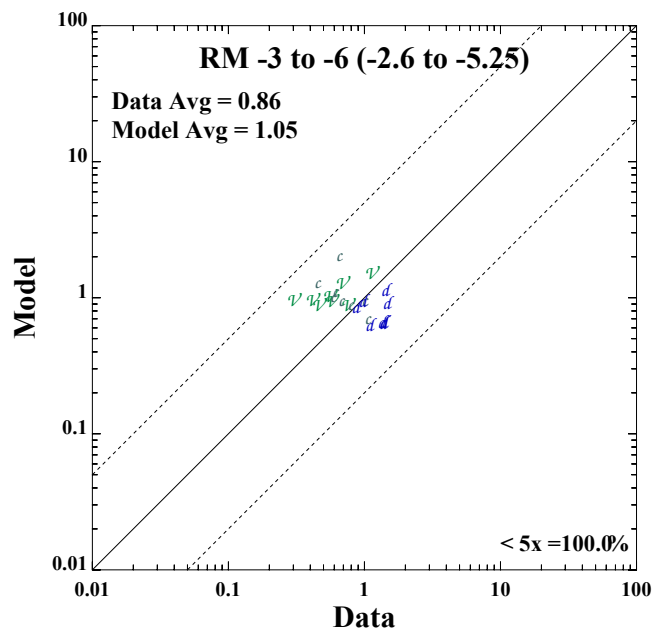
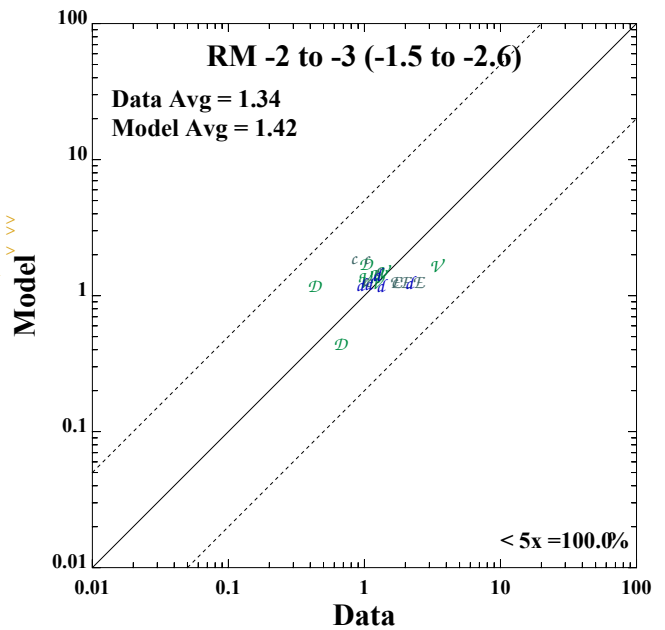
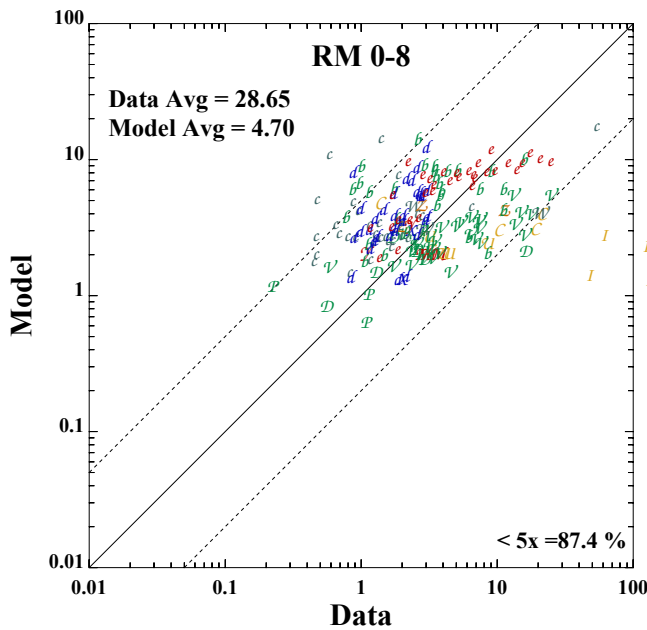
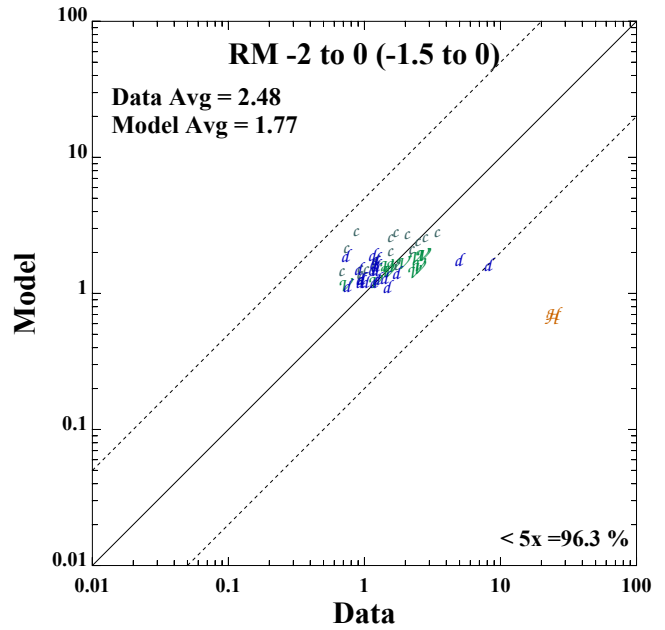
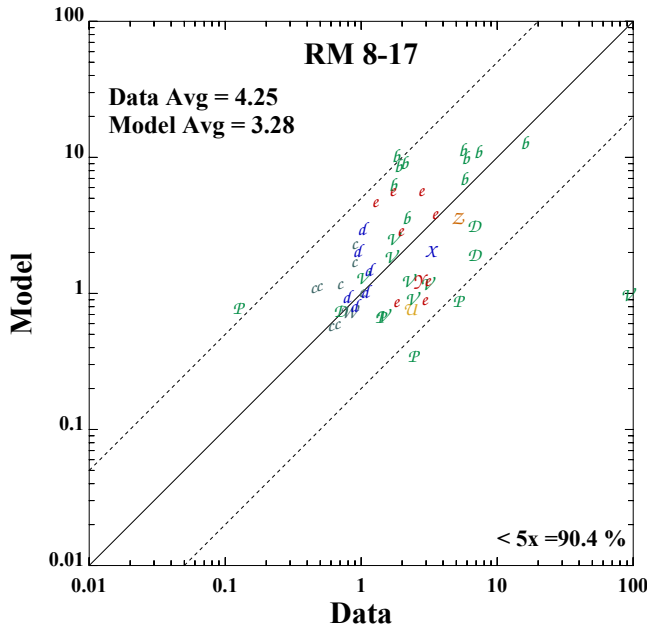
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 2,3,4,7,8-Pentachlorodibenzofuran (pg/L) (DIOXIN3)



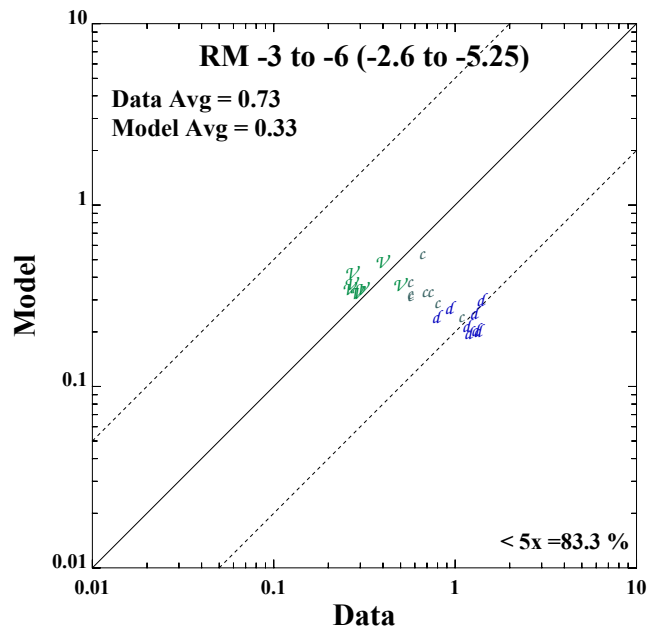
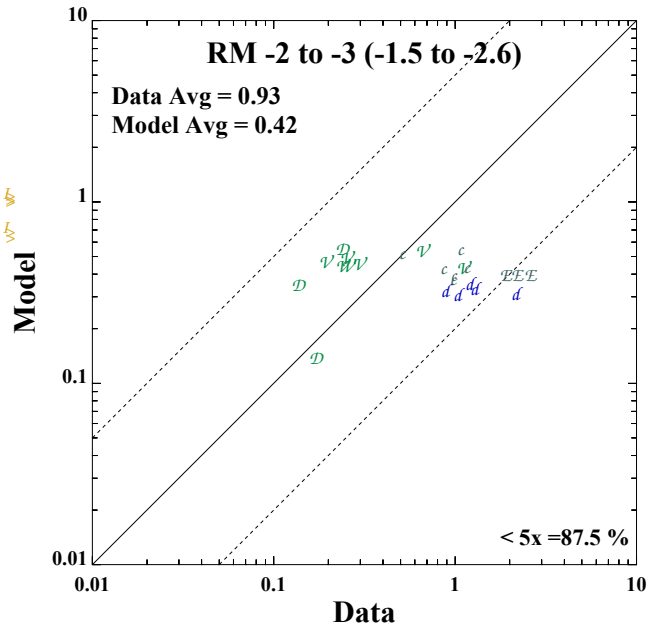
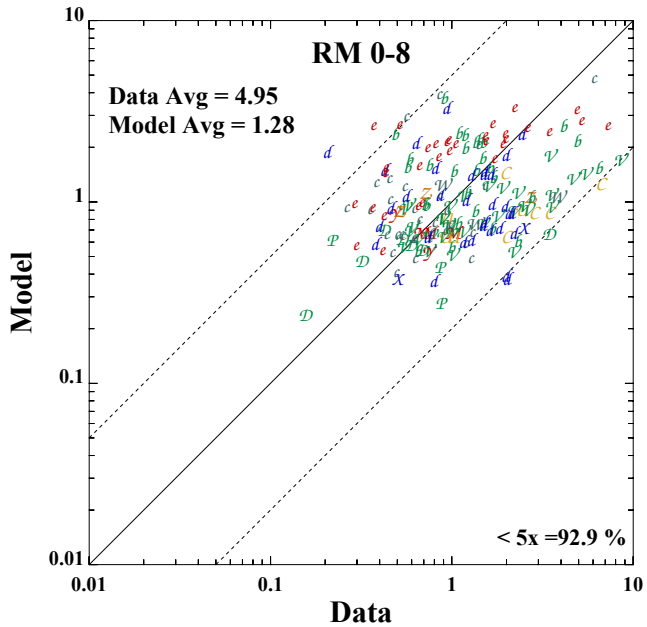
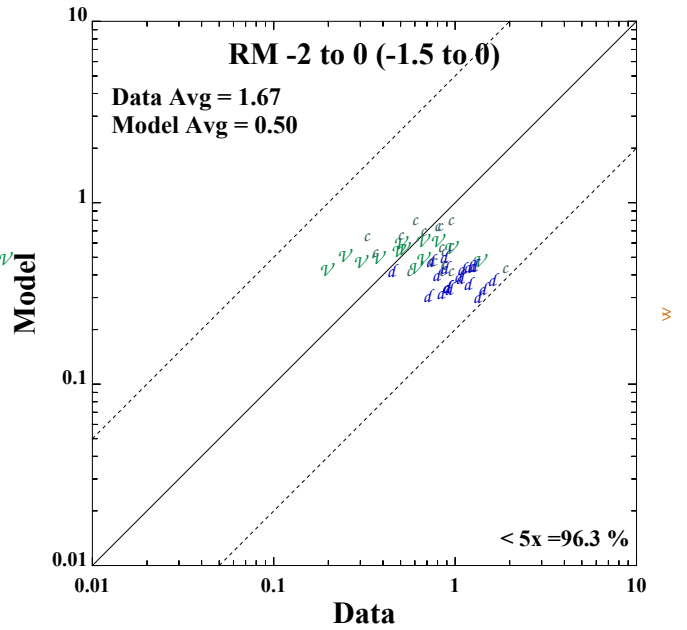
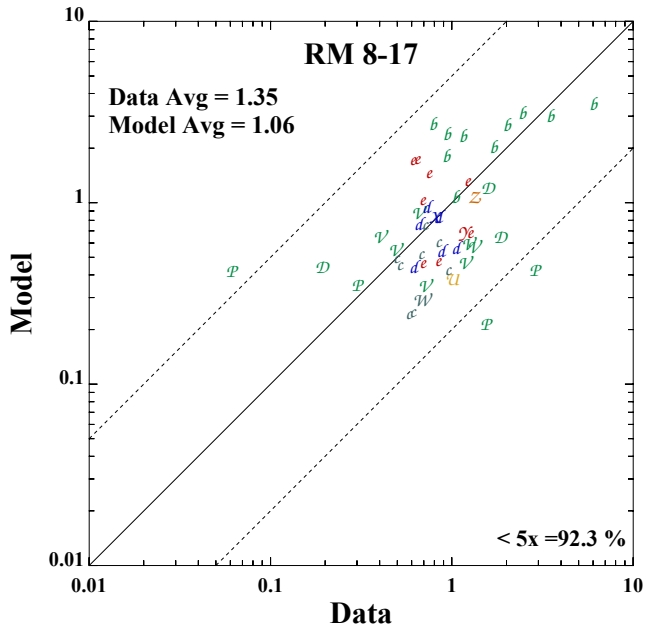
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- K* 2005 MPI SPMD Deployment
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- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,4,7,8-Hexachlorodibenzofuran (pg/L) (DIOXIN3)



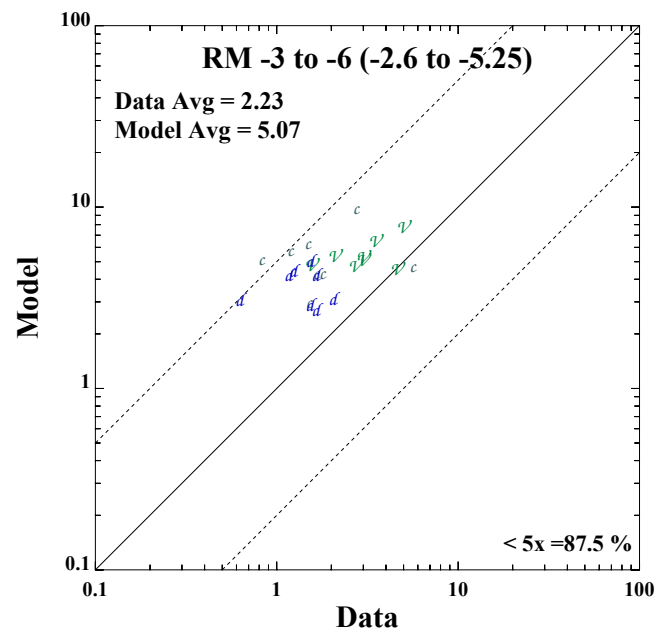
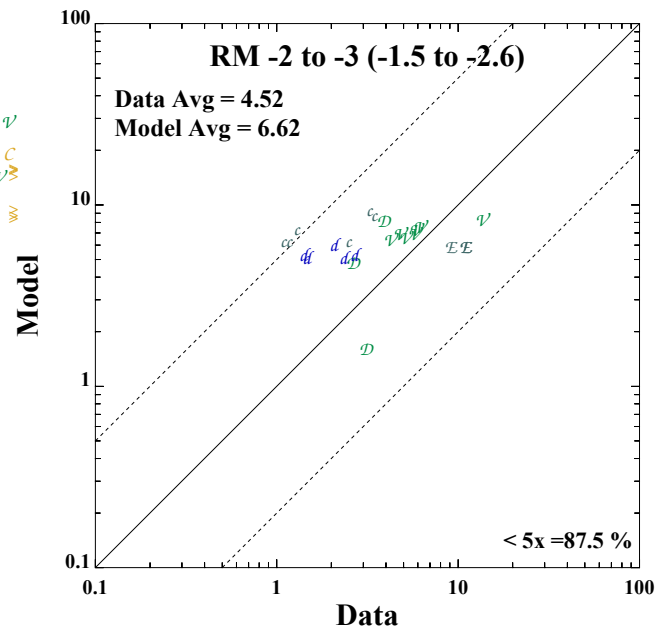
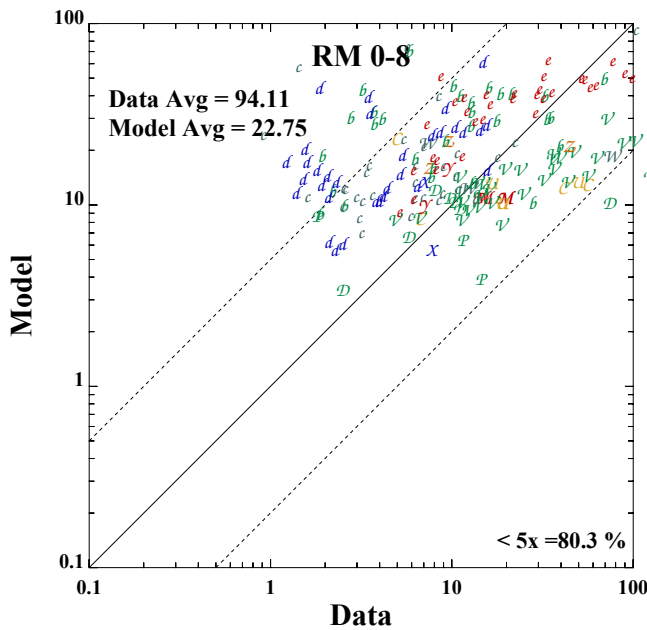
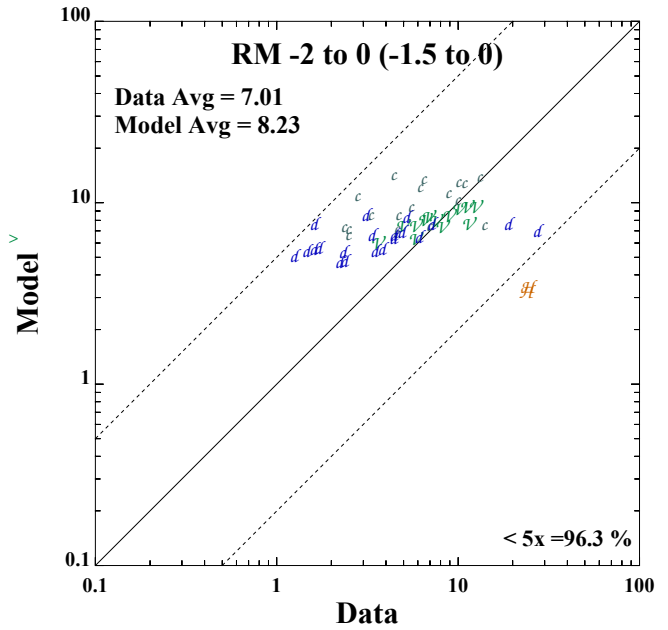
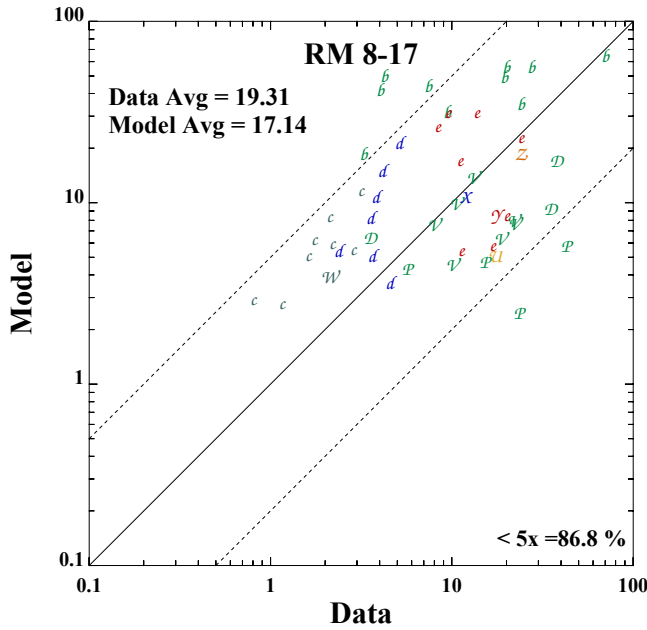
- A* 1993-1997 USACE - DMDAT
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- C* 1997 Outfall Sampling Program
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,6,7,8-Hexachlorodibenzofuran (pg/L) (DIOXIN3)



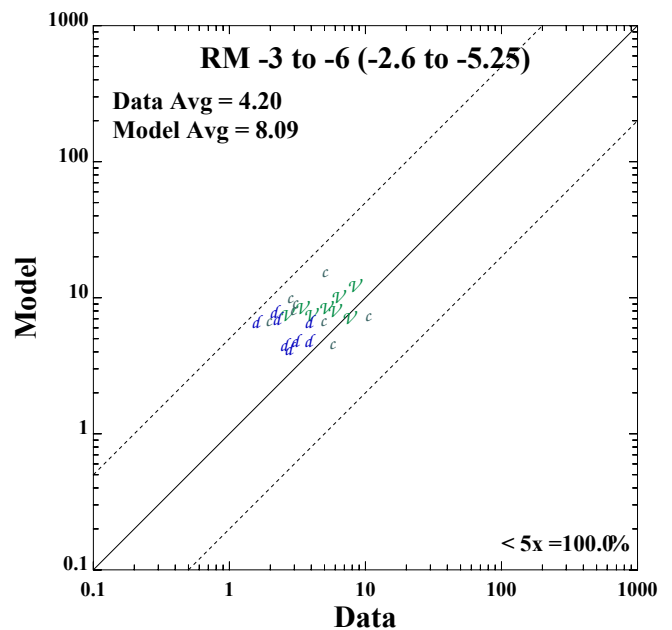
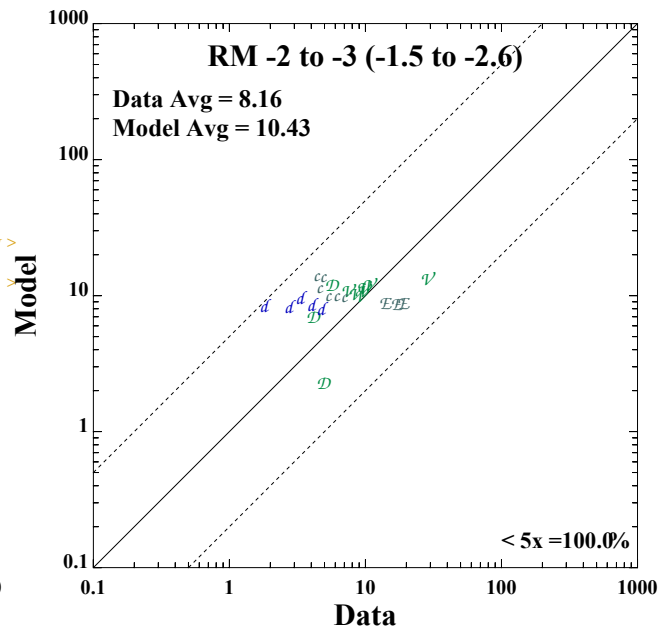
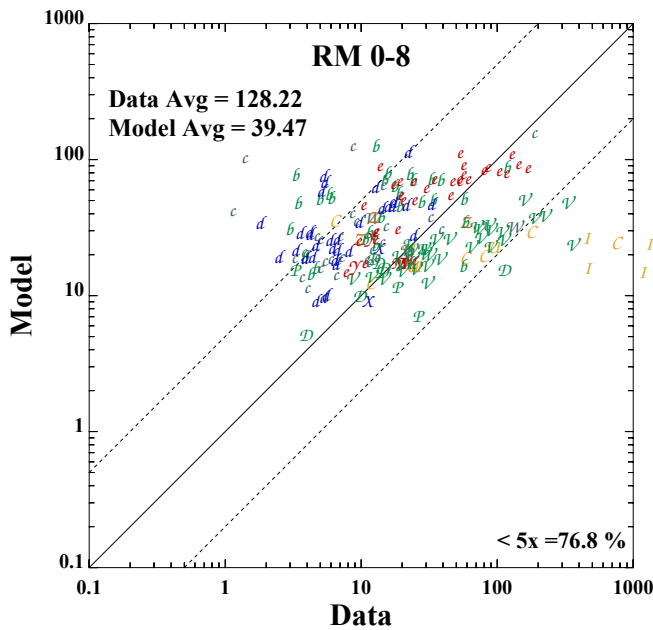
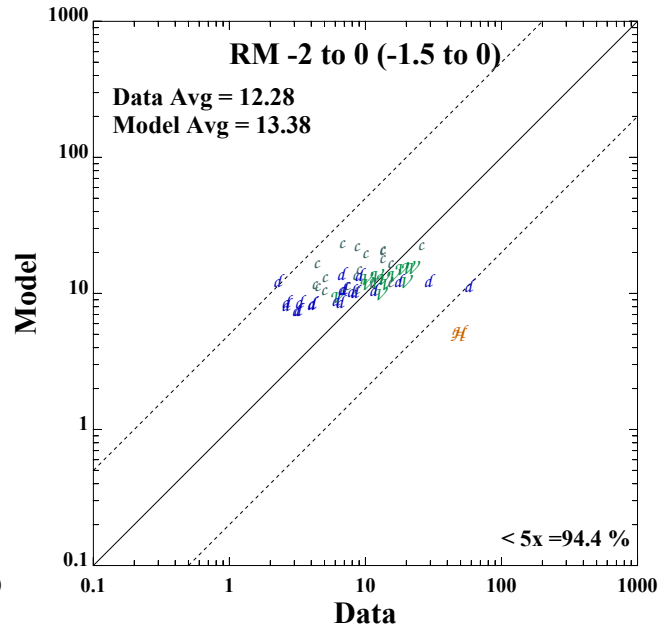
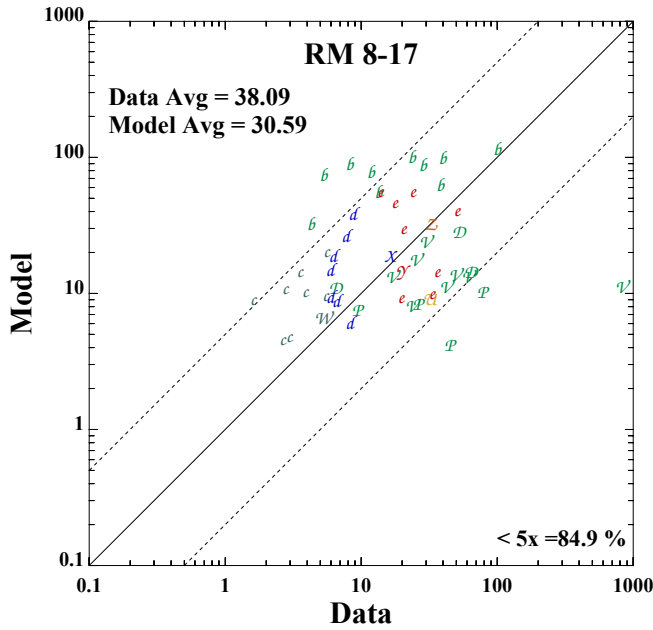
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- F* 1999 Newark Bay Reach ABCD Baseline Sampling
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- N* 2005 USEPA-MPI Small Volume Water Column
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
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- V* 2011 CPG CWCM Sampling Data
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- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 1,2,3,4,6,7,8-Heptachlorodibenzofuran (pg/L) (DIOXIN3)



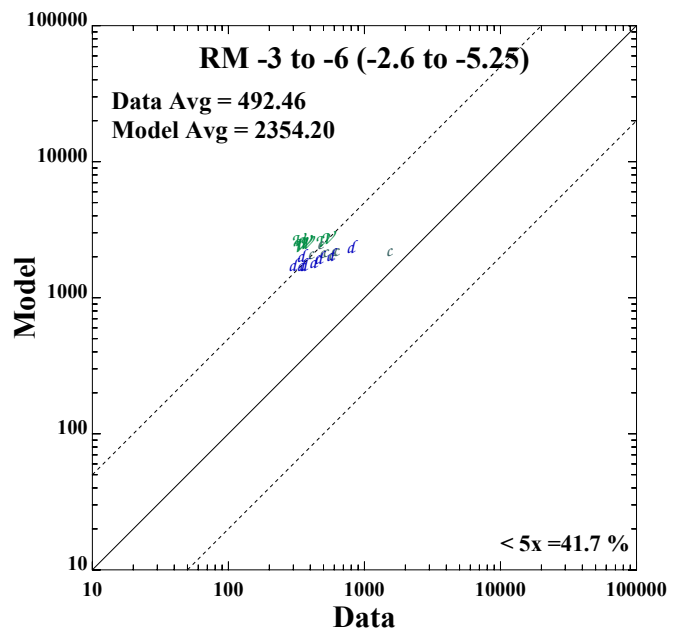
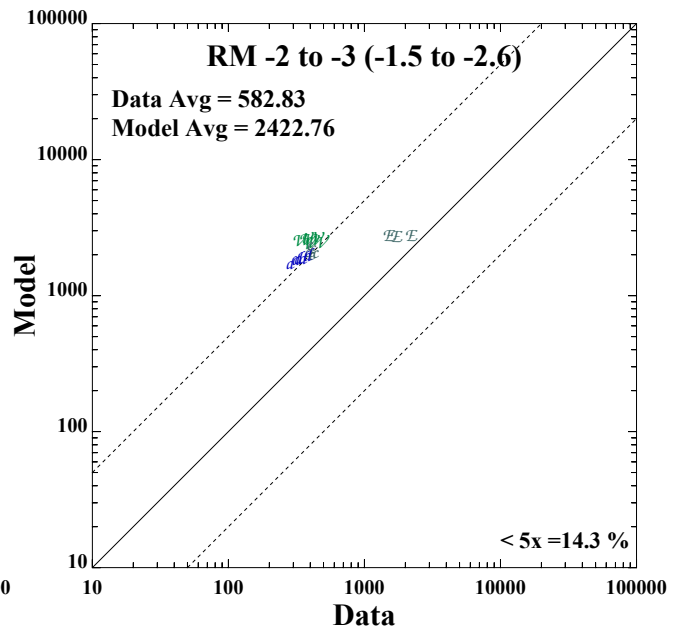
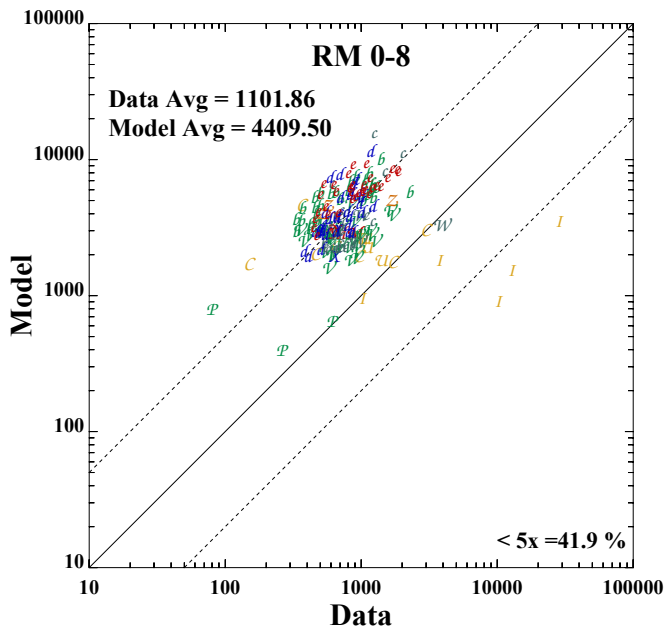
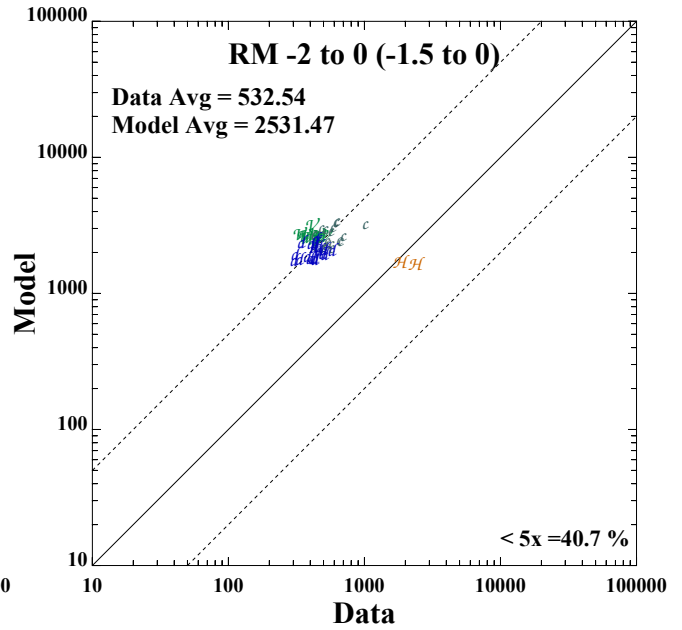
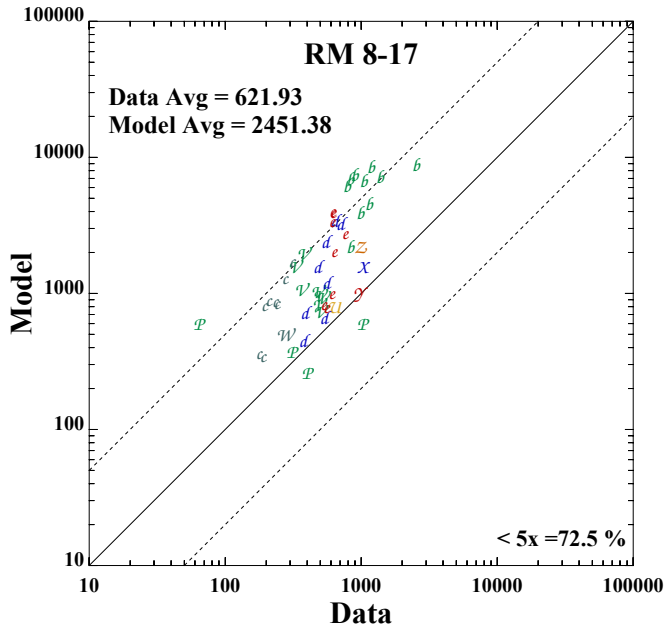
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
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- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers OCDF (pg/L) (DIOXIN3)



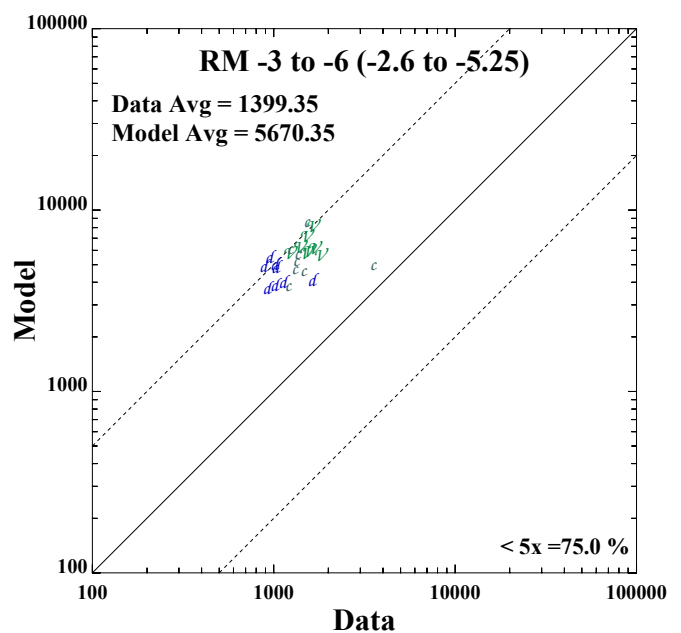
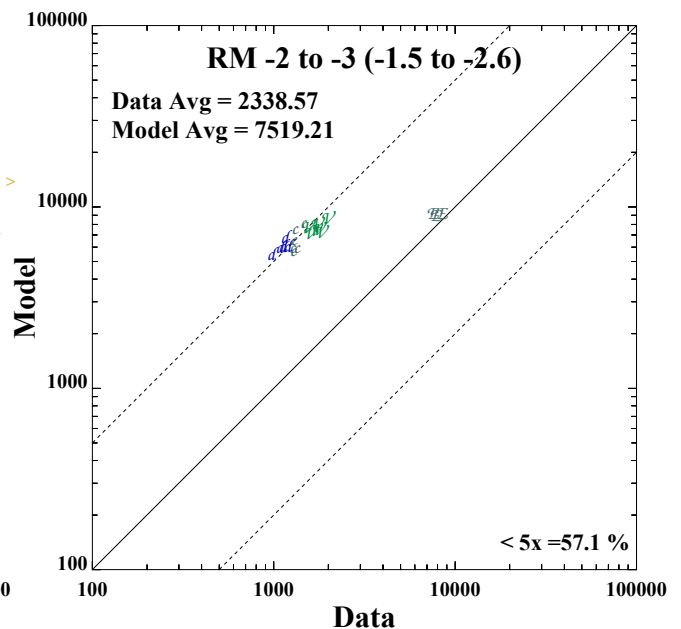
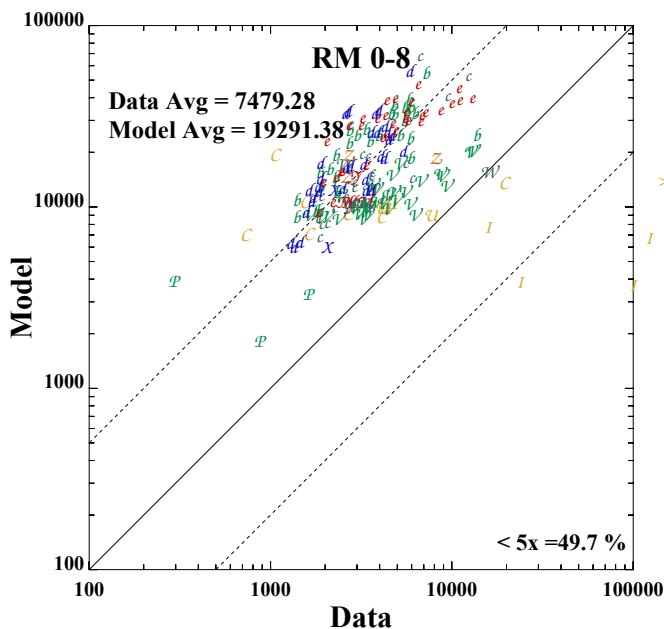
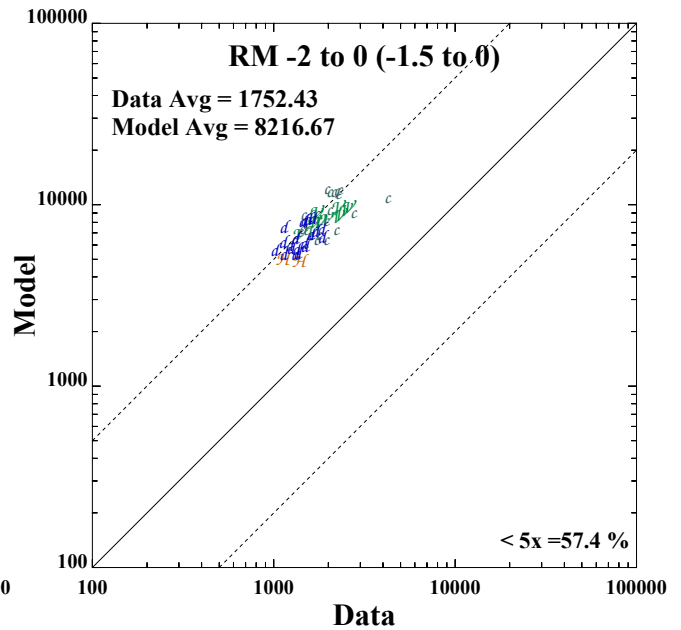
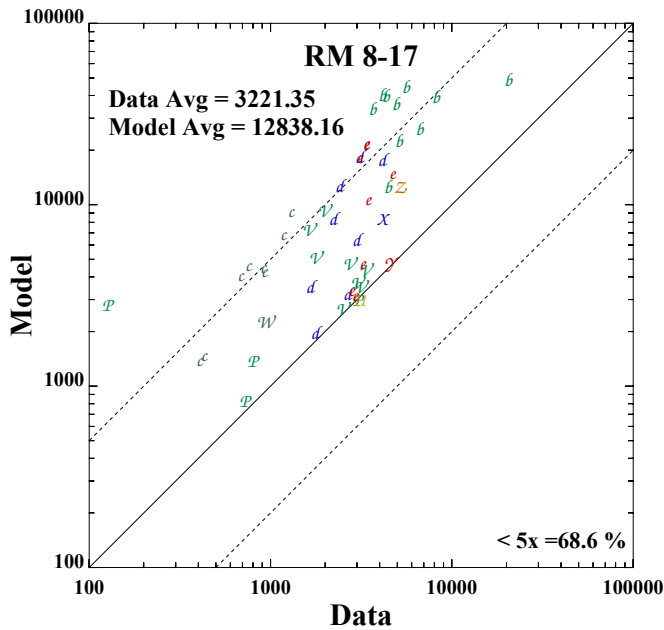
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of dichloro biphenyl congeners (pg/L) (PCB1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- Q* 2009 CPG LPR Water Column Monitoring DEC
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

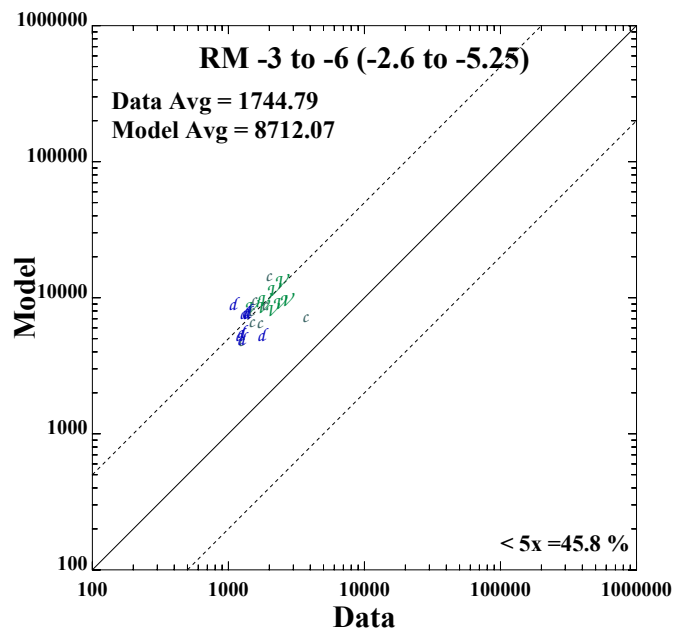
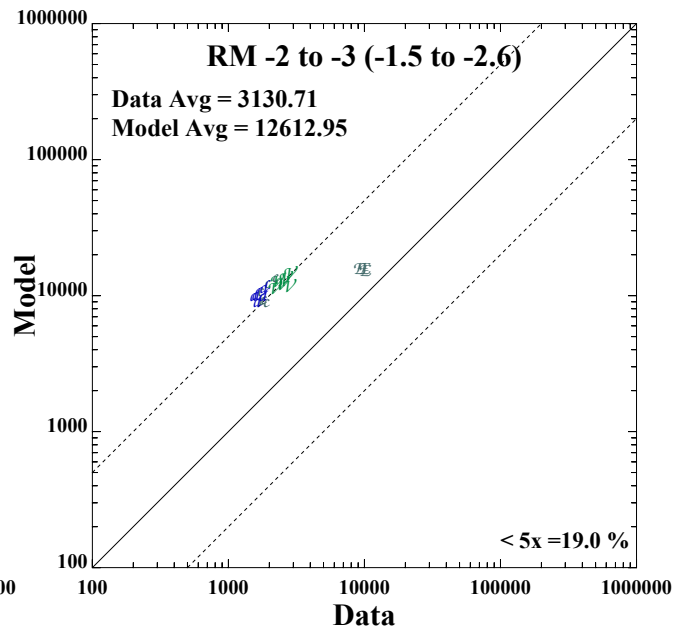
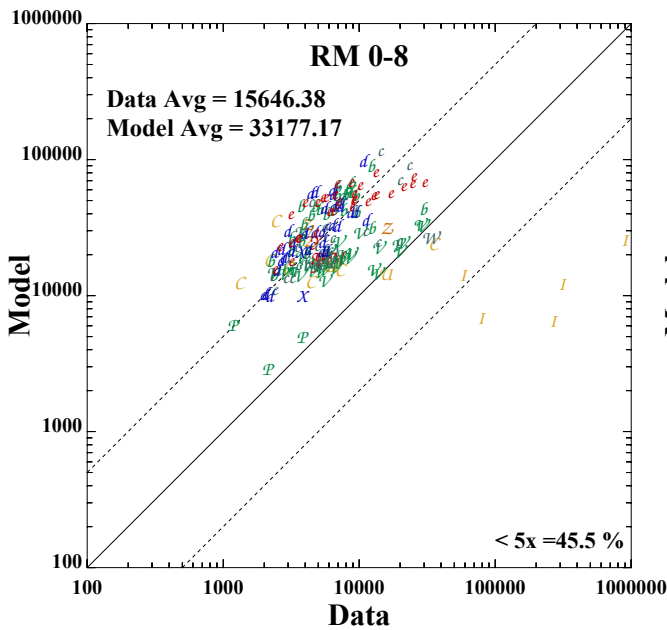
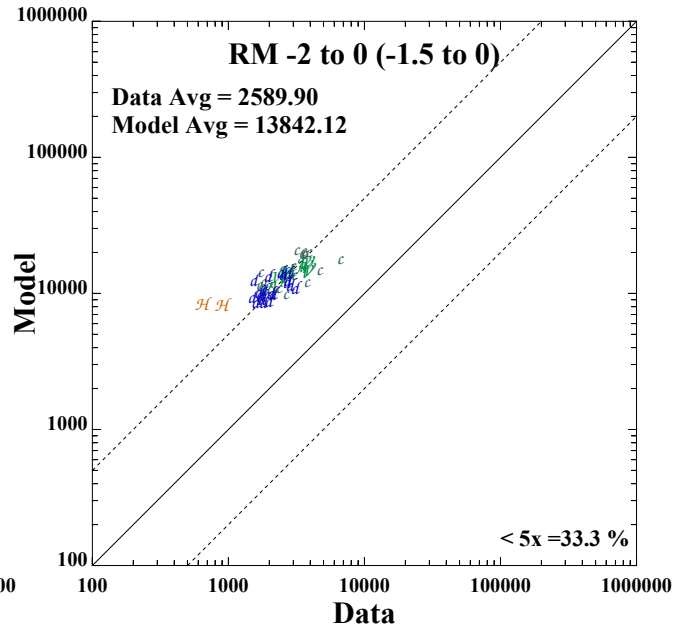
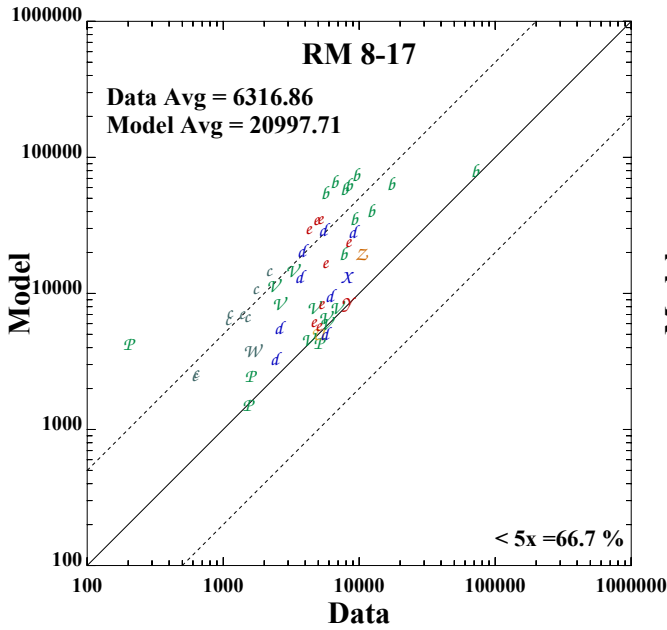
# All Layers PCBs, sum of trichloro biphenyl congeners (pg/L) (PCB1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
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- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

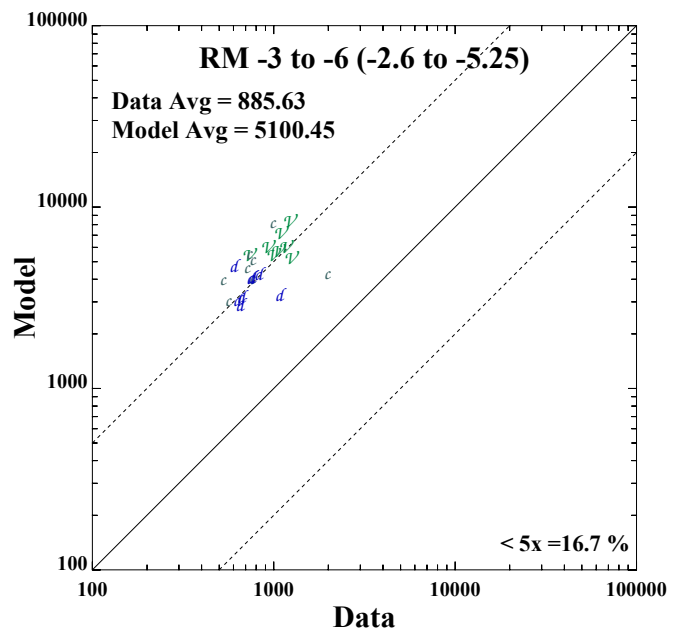
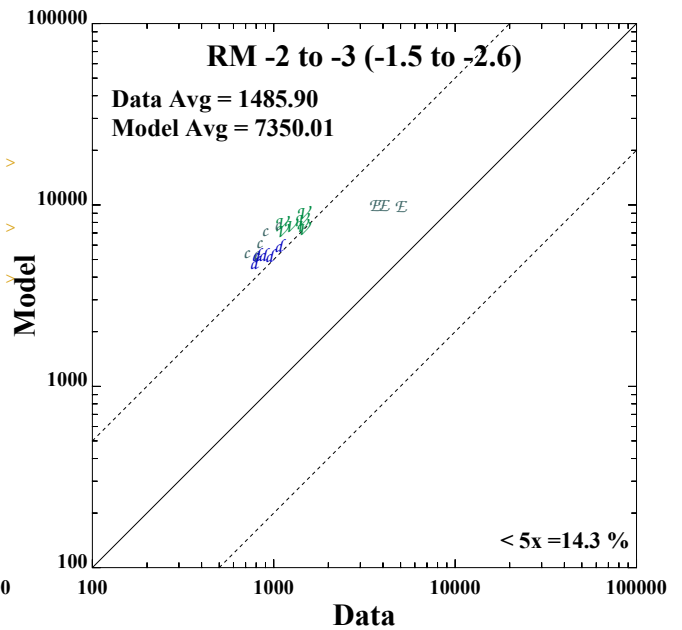
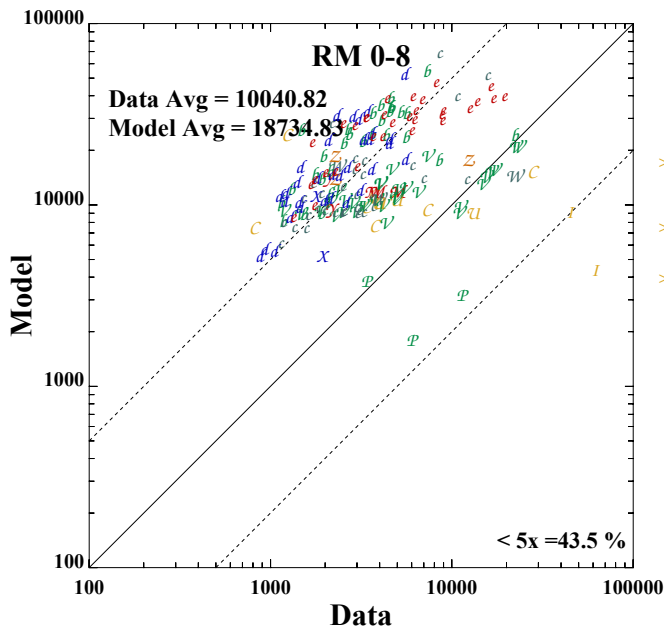
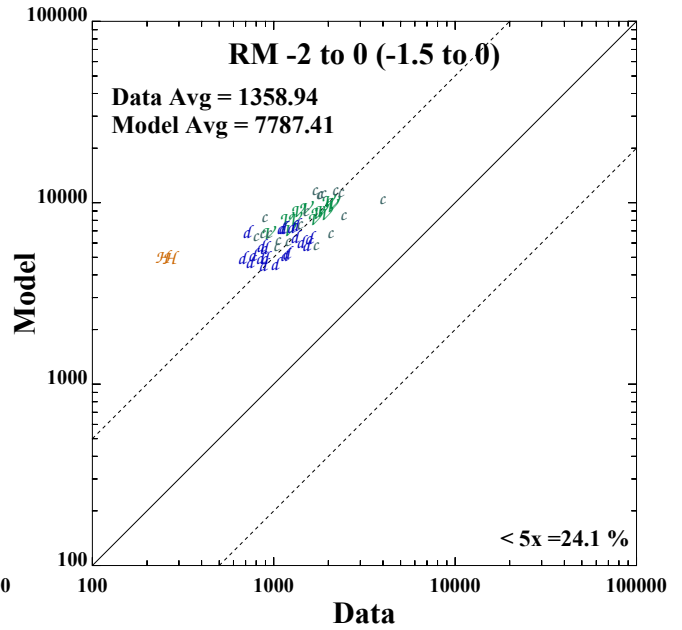
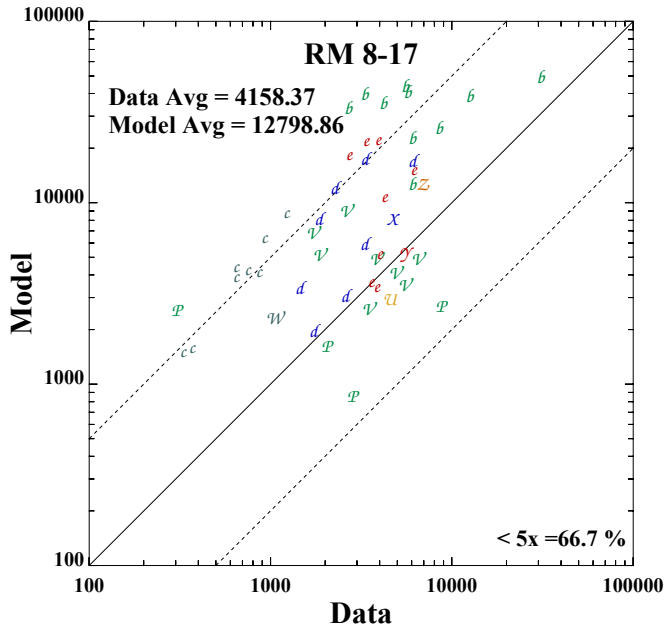


# All Layers PCBs, sum of tetrachloro biphenyl congeners (pg/L) (PCB1)



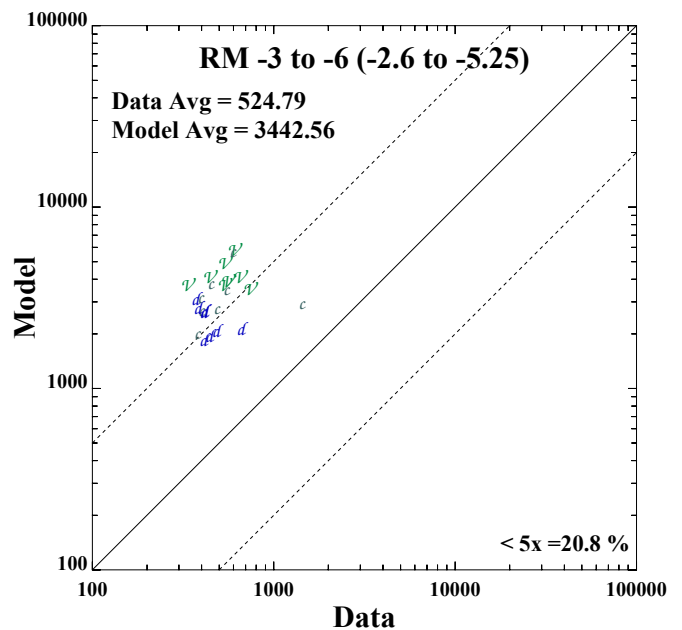
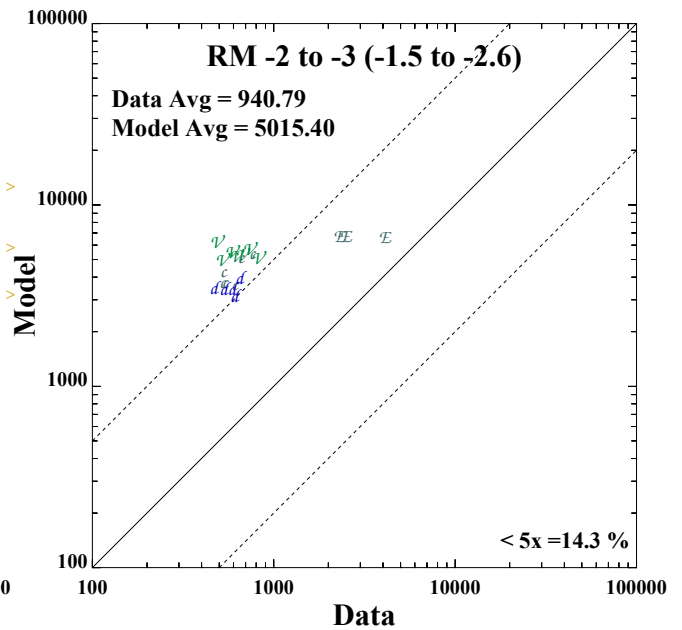
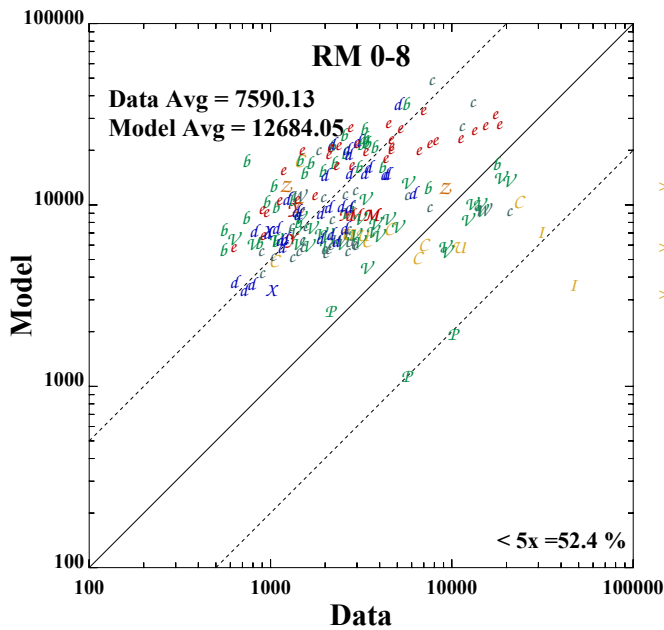
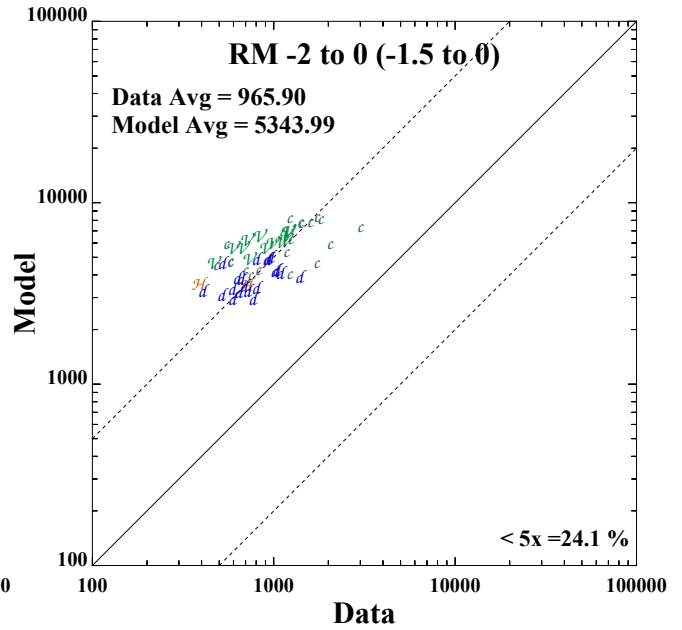
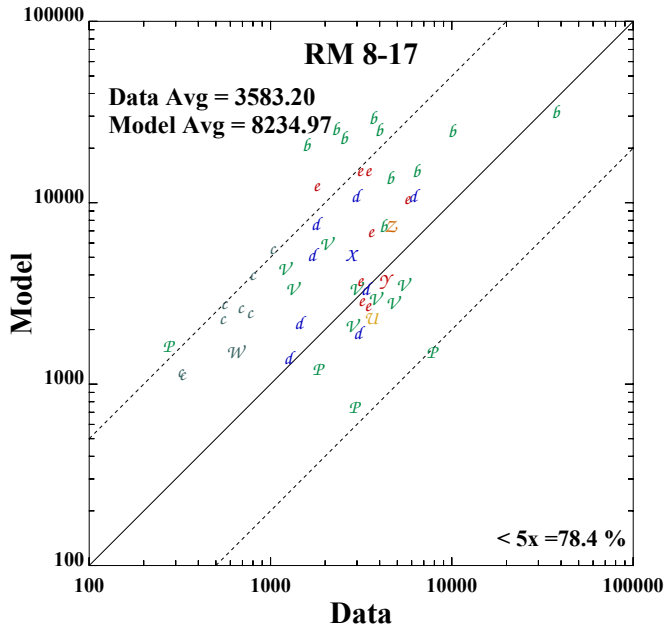
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- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of pentachlor biphenyl congeners (pg/L) (PCB1)



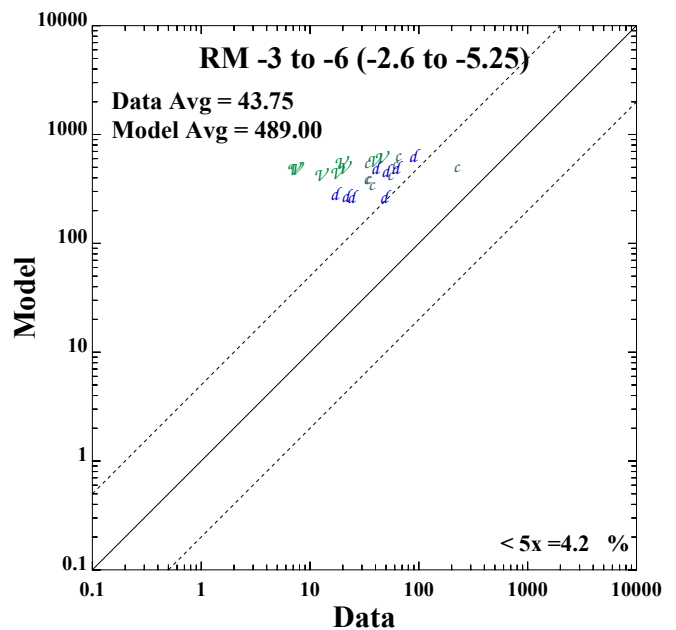
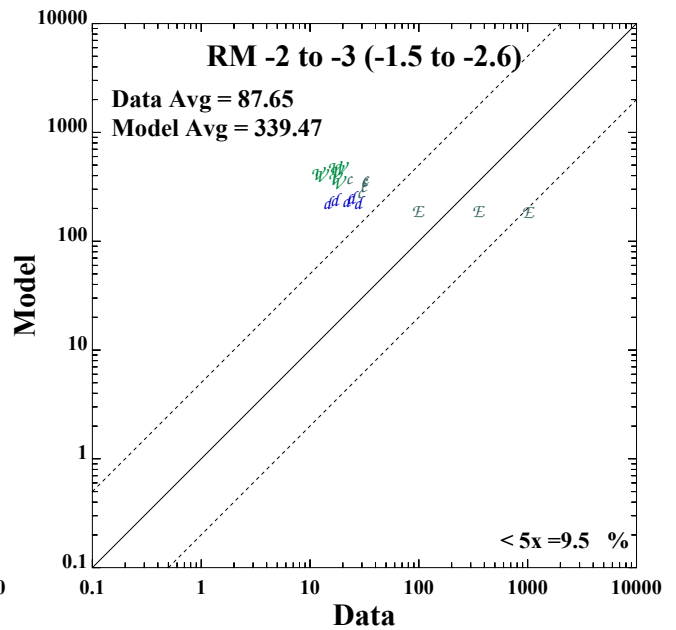
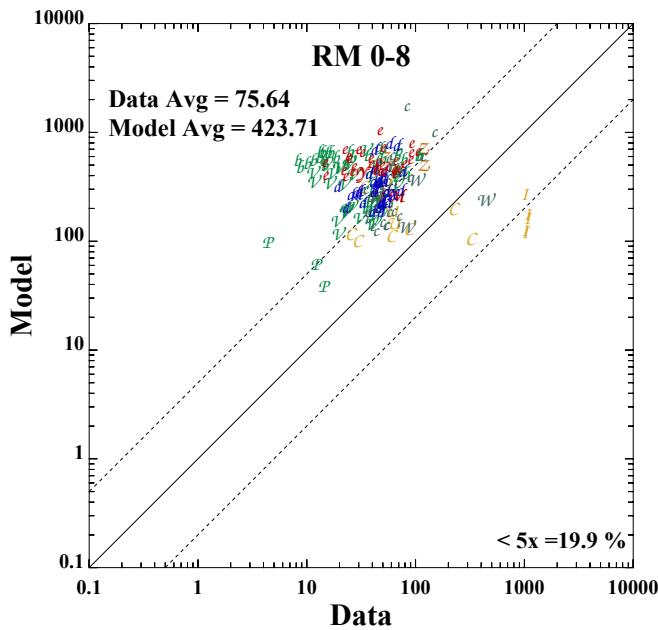
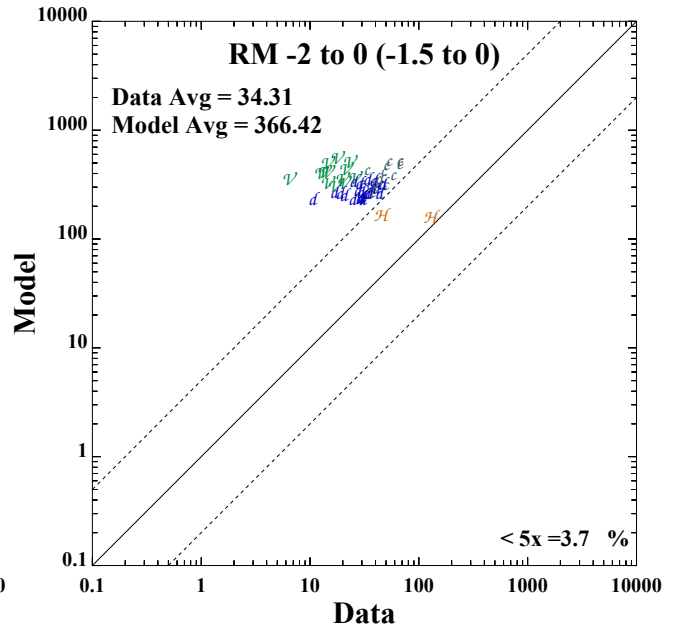
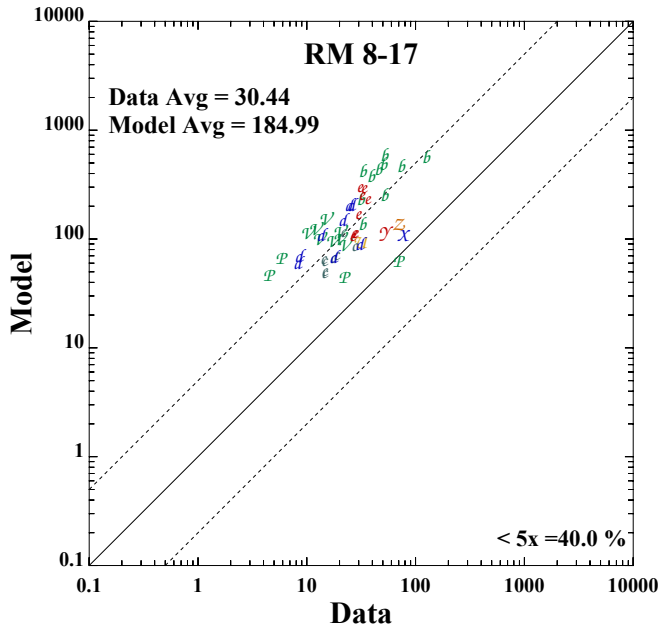
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- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of hexachloro biphenyl congeners (pg/L) (PCB1)



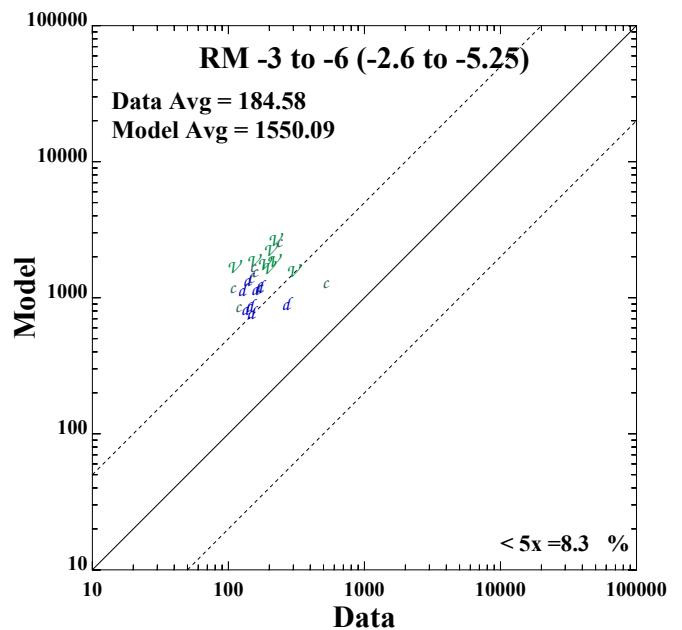
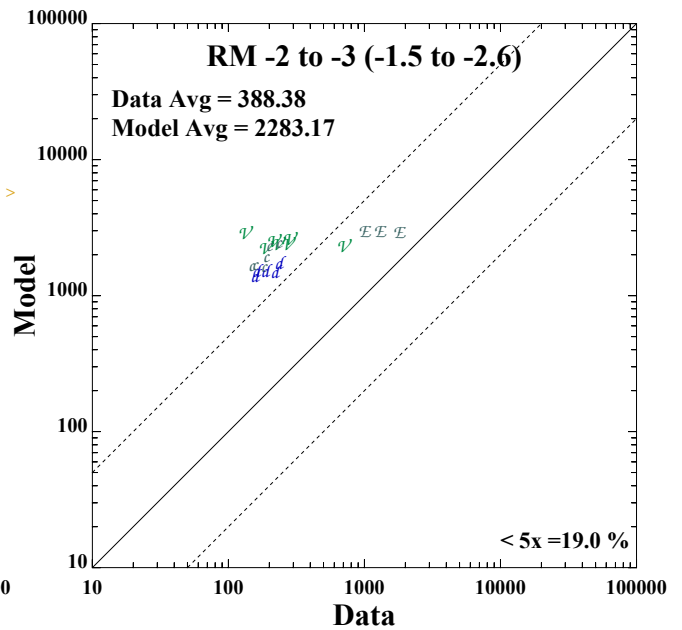
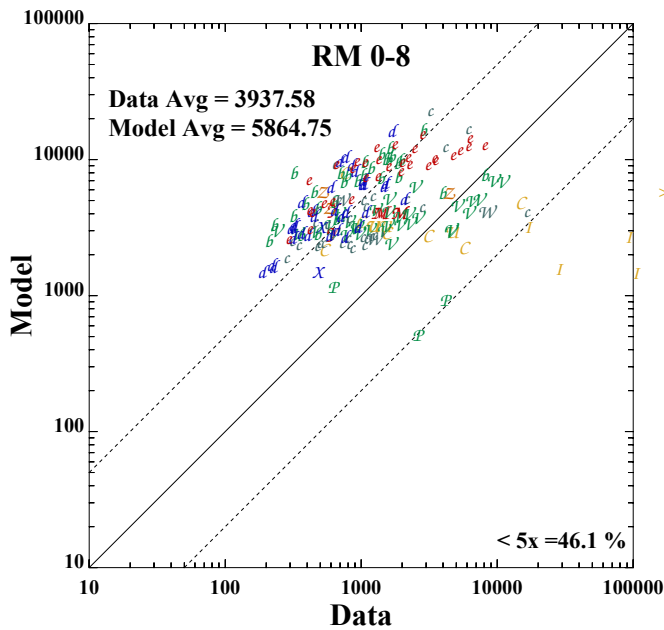
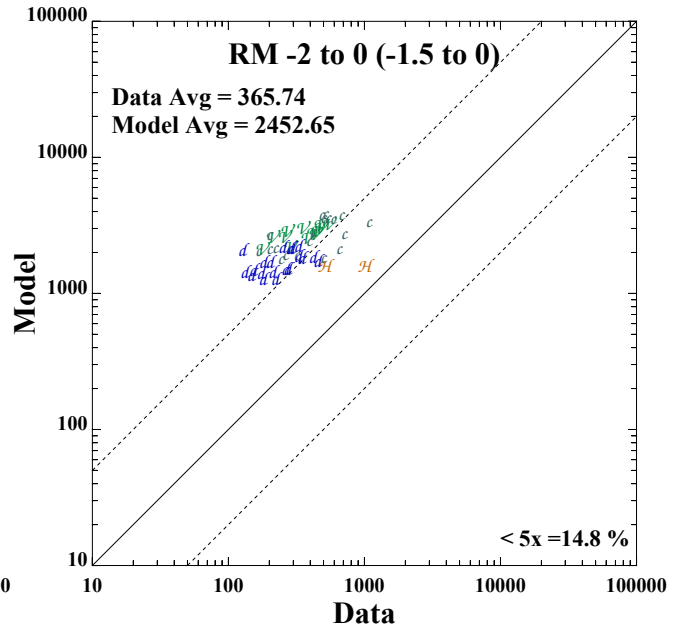
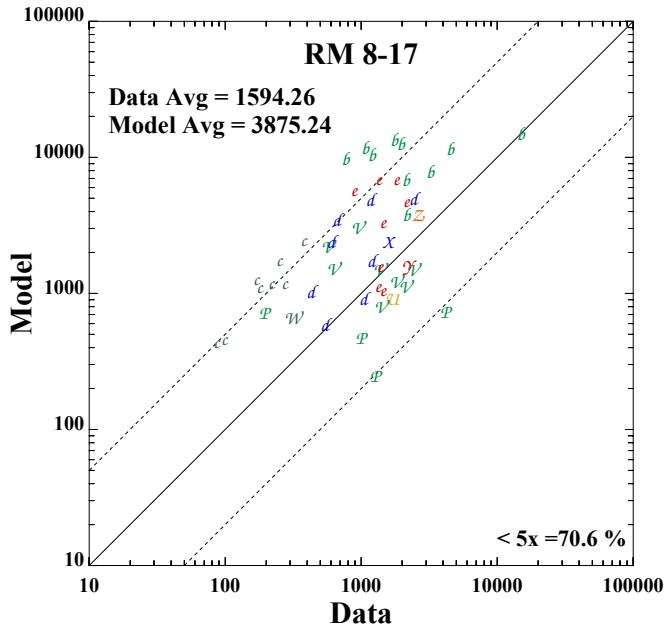
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of monochloro biphenyl congeners (pg/L) (PCB2)



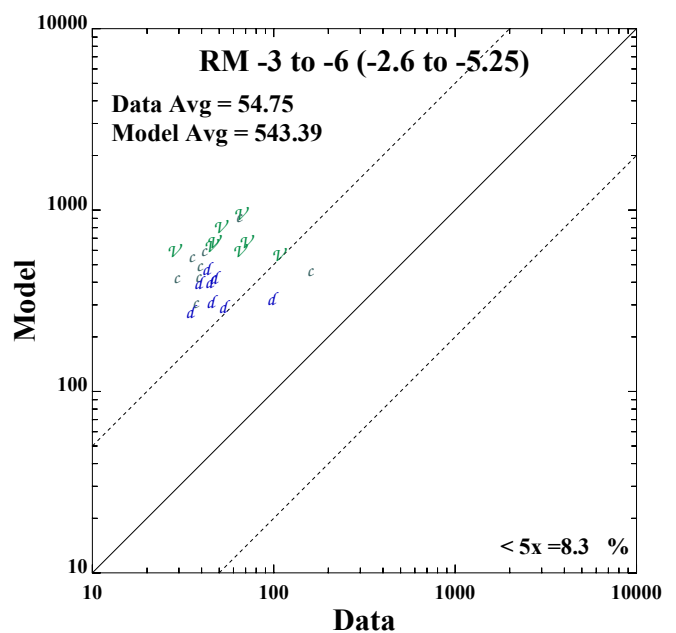
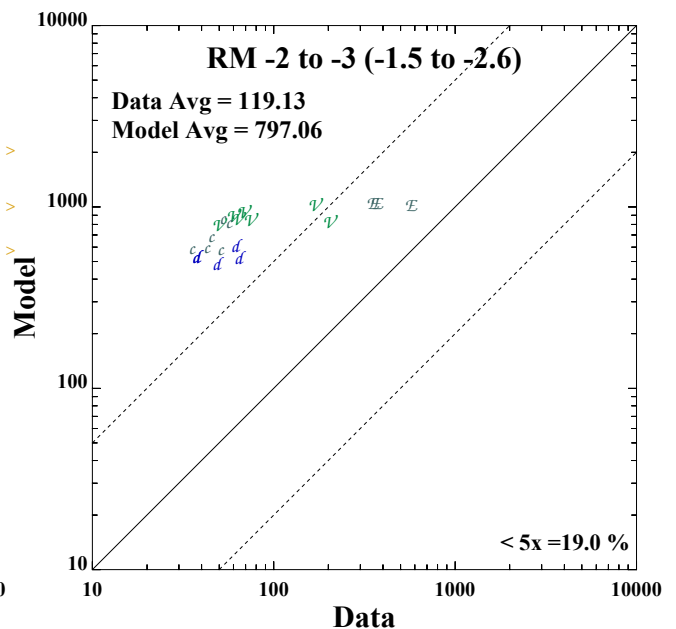
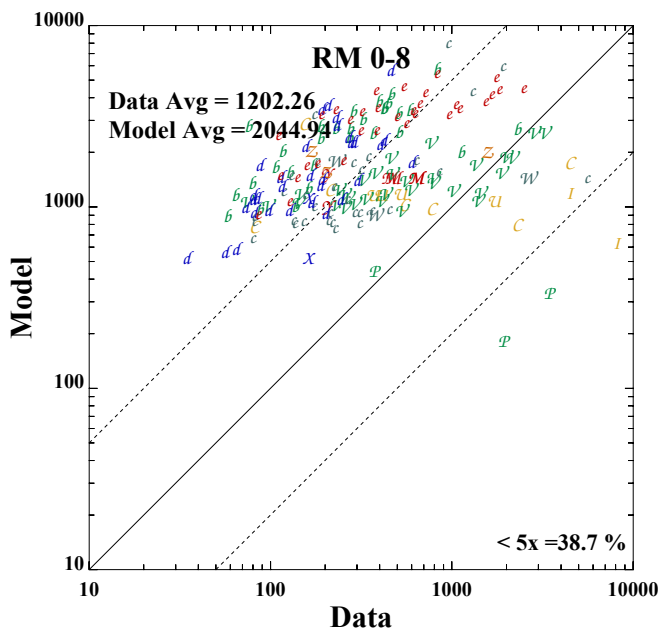
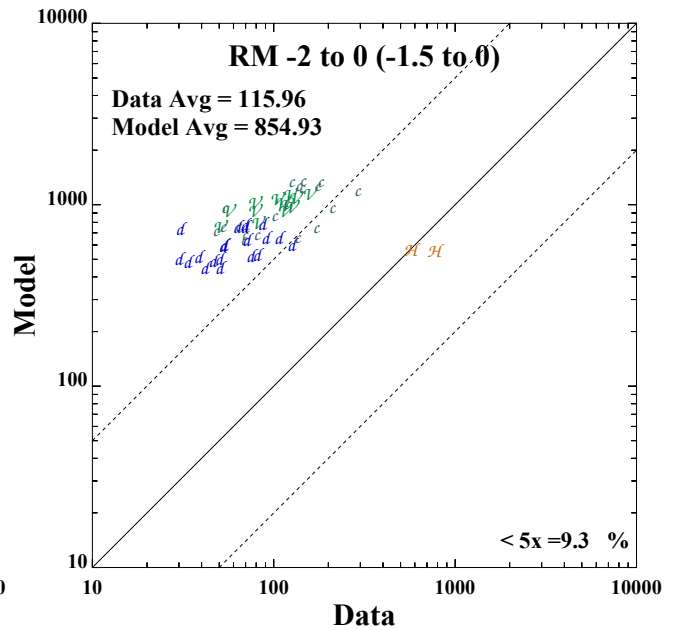
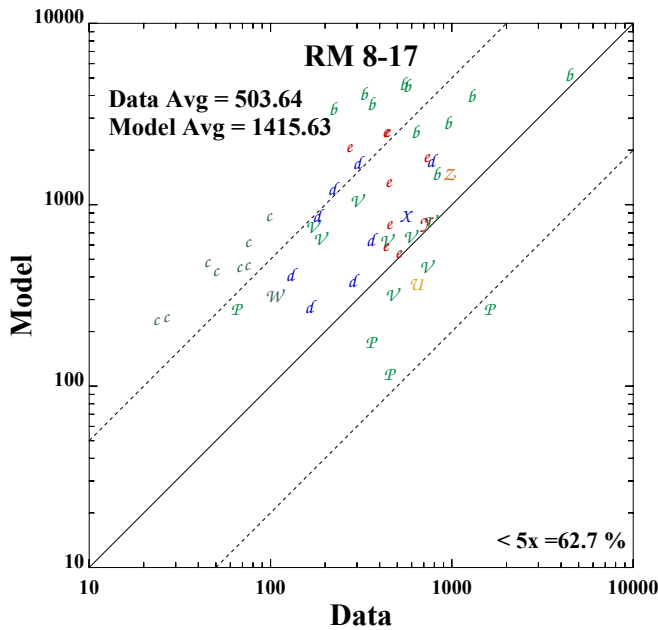
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of heptachloro biphenyl congeners (pg/L) (PCB2)



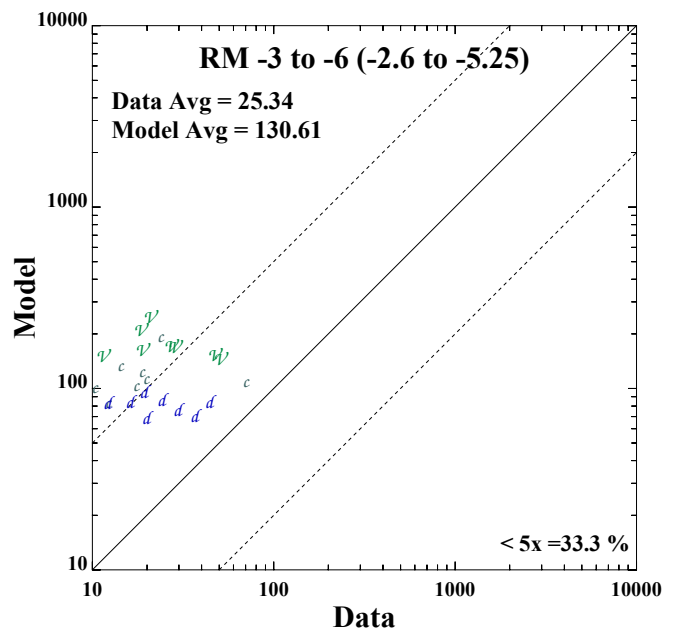
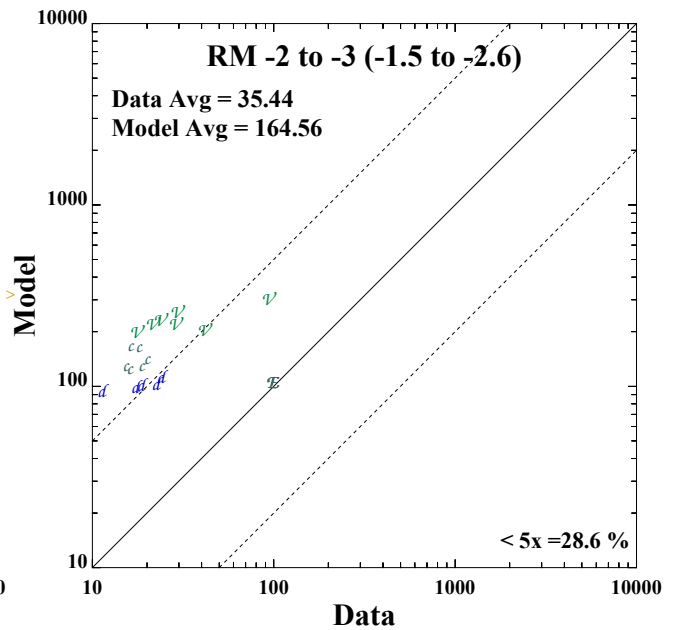
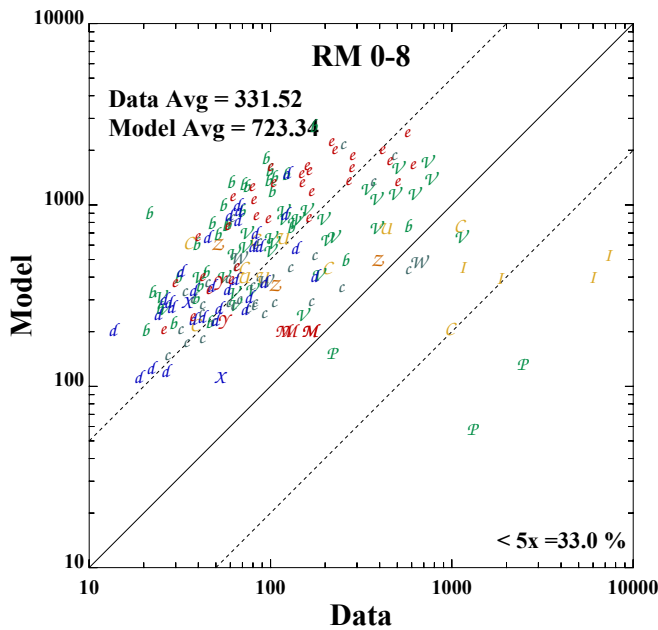
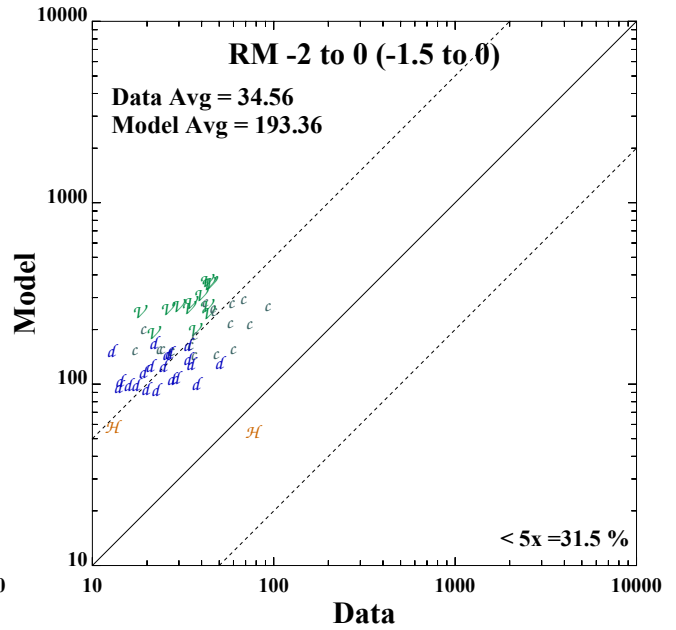
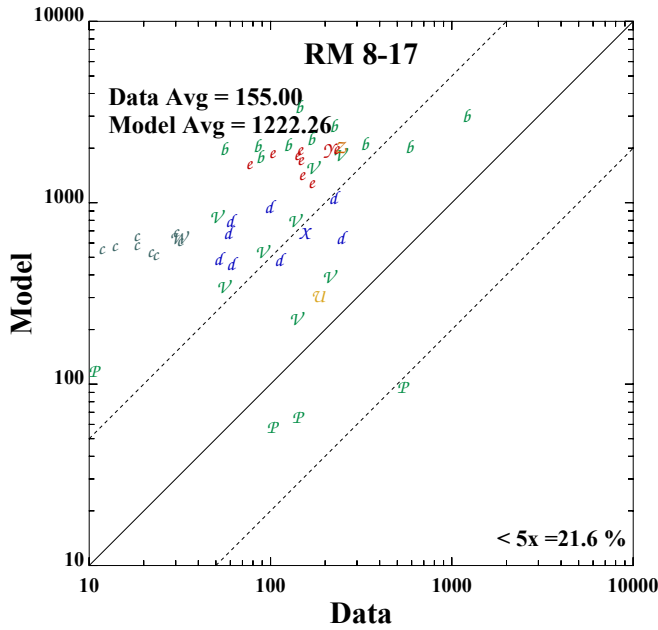
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of octachloro biphenyl congeners (pg/L) (PCB2)



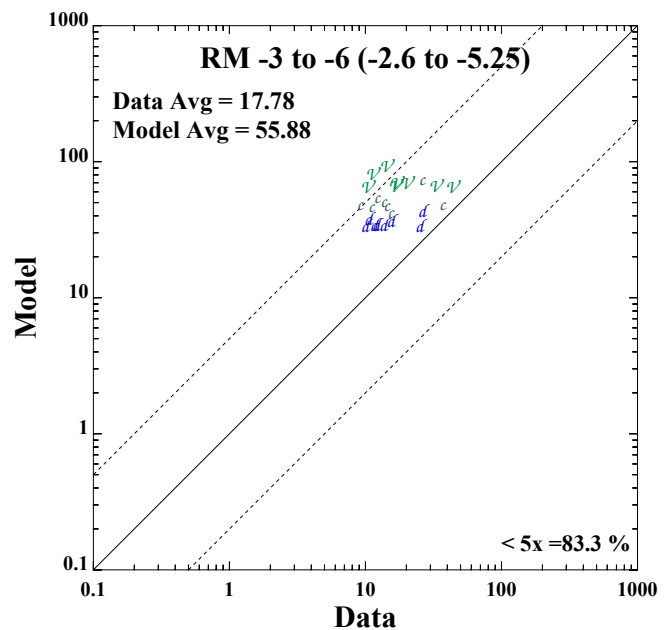
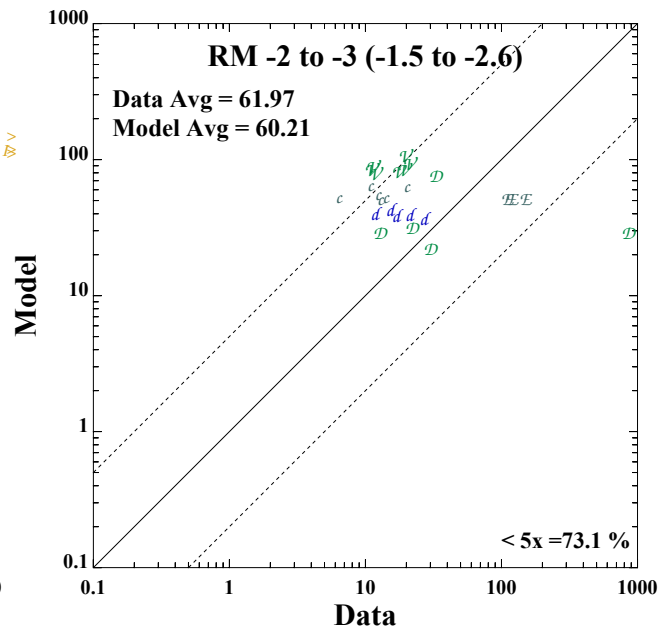
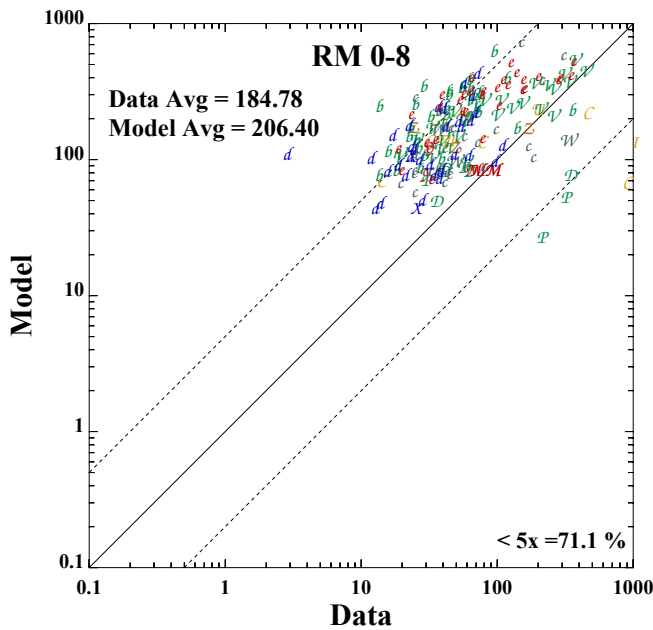
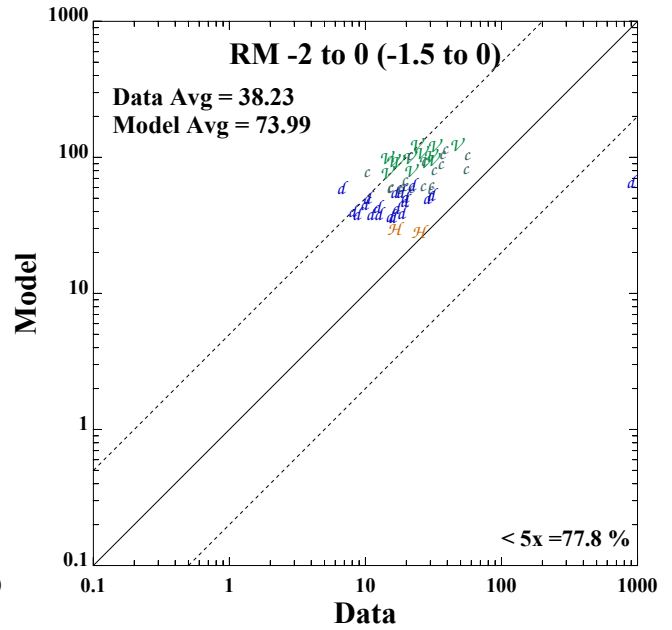
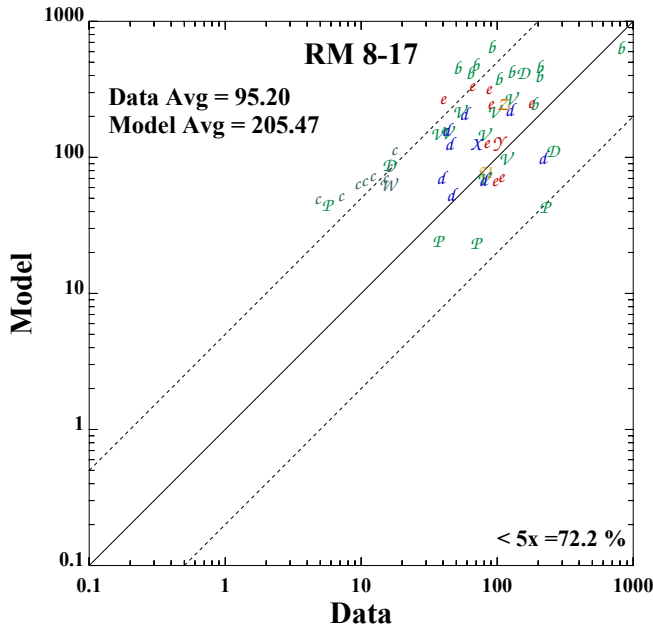
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers PCBs, sum of nonachloro biphenyl congeners (pg/L) (PCB2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

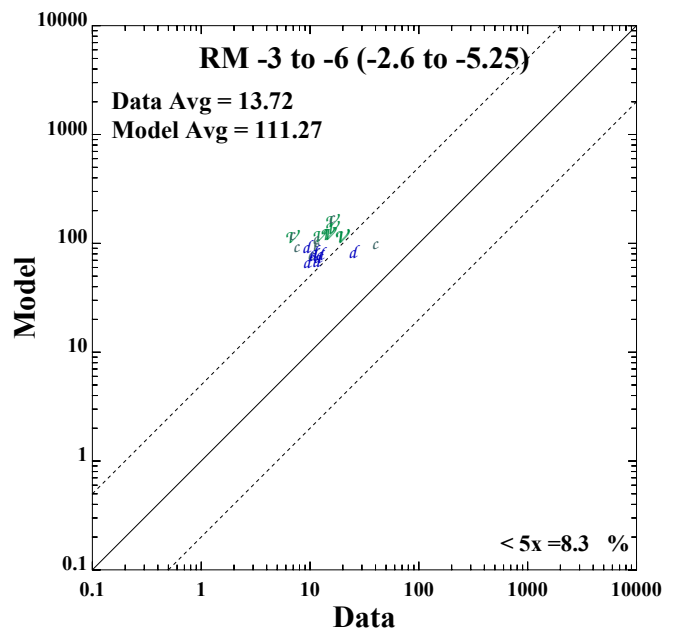
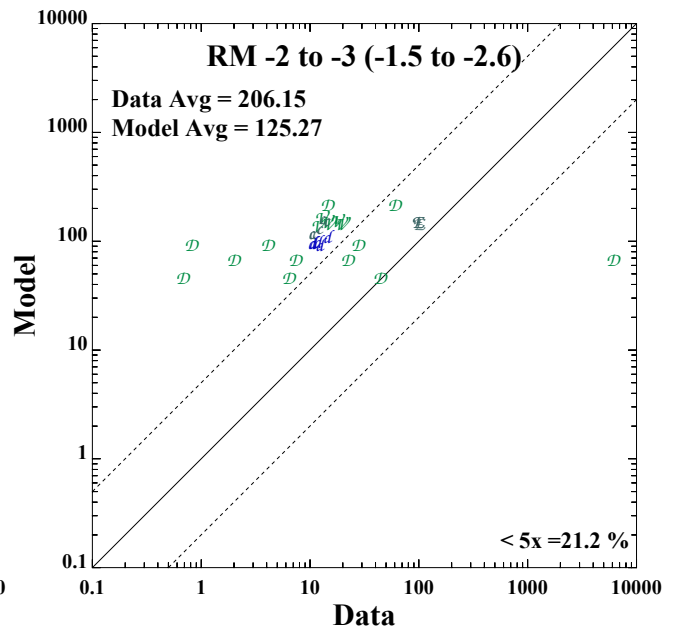
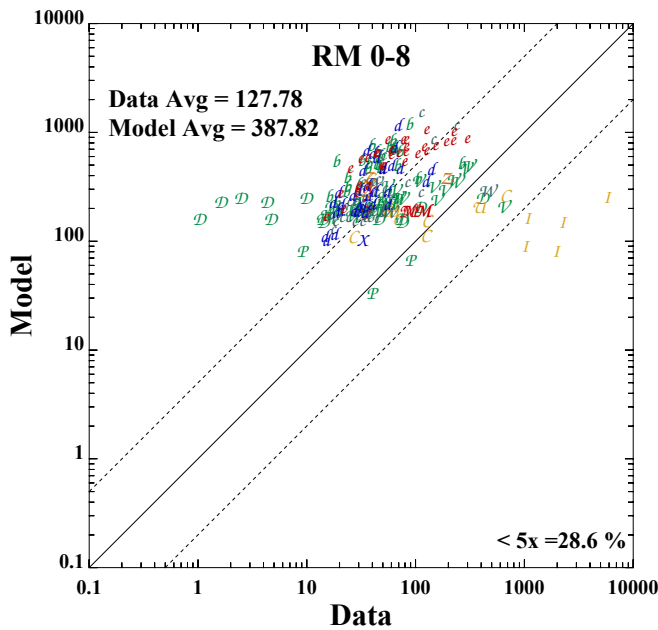
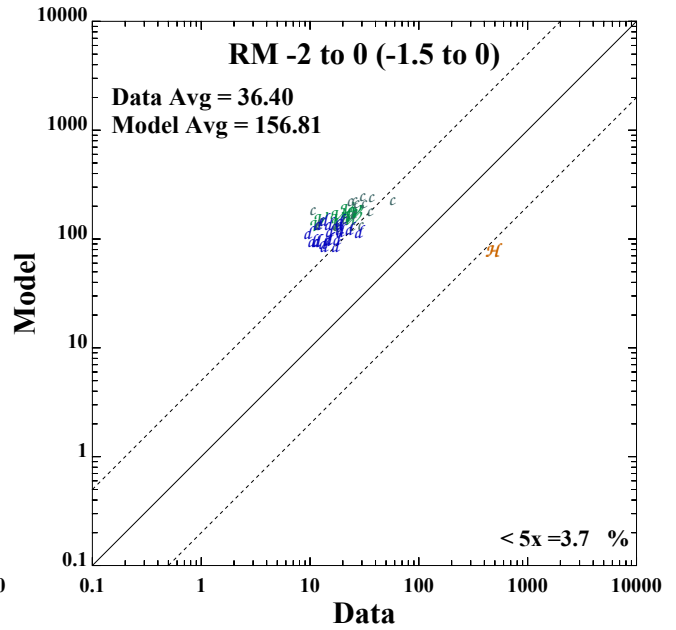
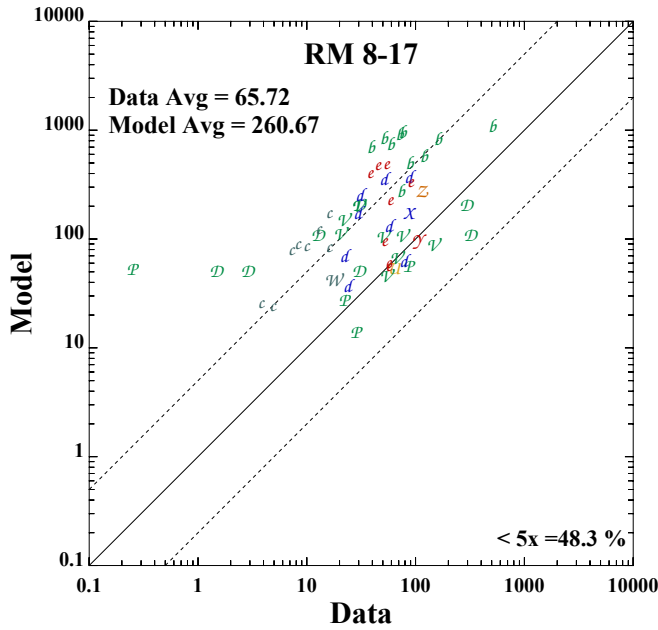
# All Layers PCBs, sum of decachloro biphenyl congeners (pg/L) (PCB2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

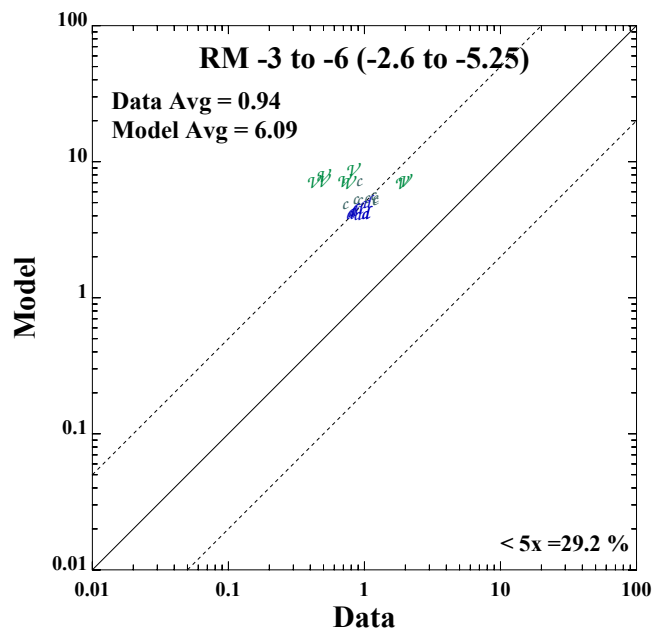
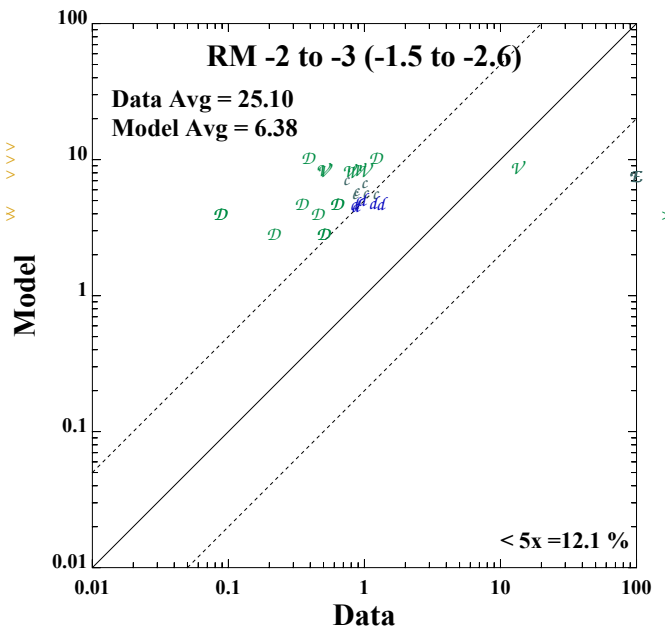
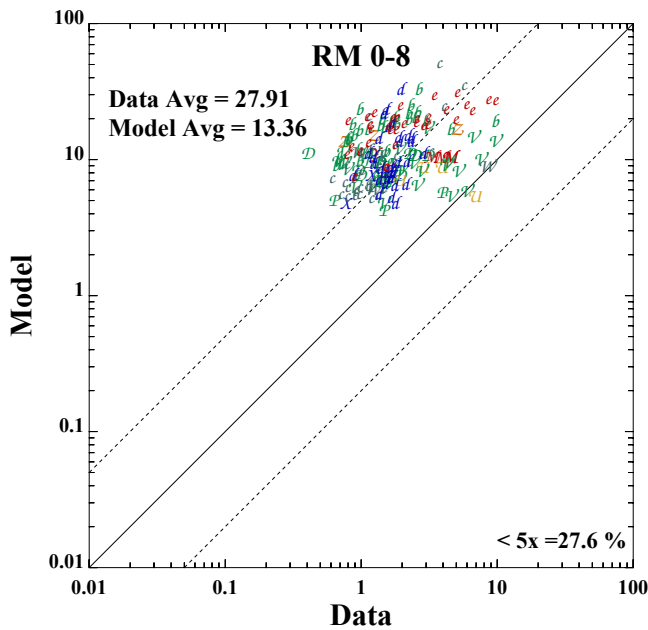
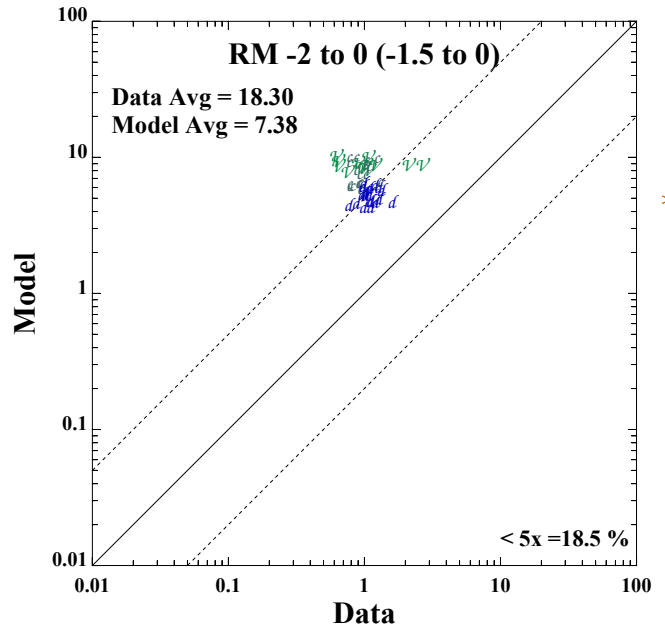
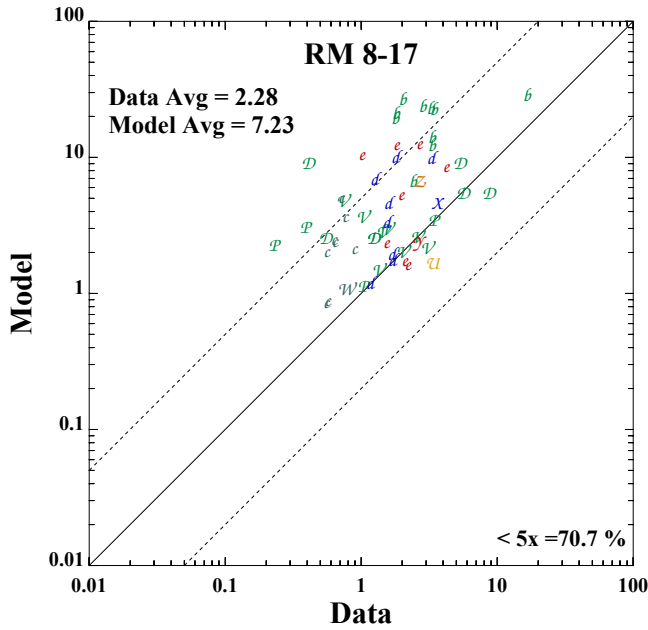


# All Layers BZ#077 (pg/L) (PCB-TEF1)



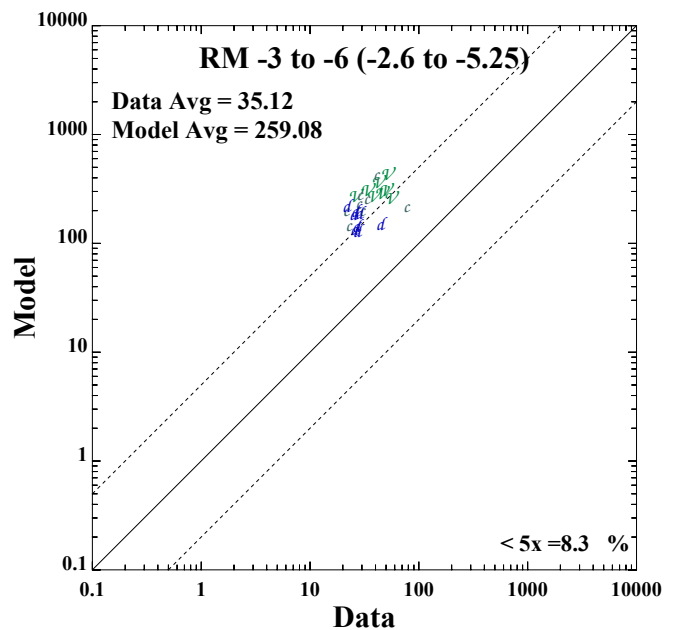
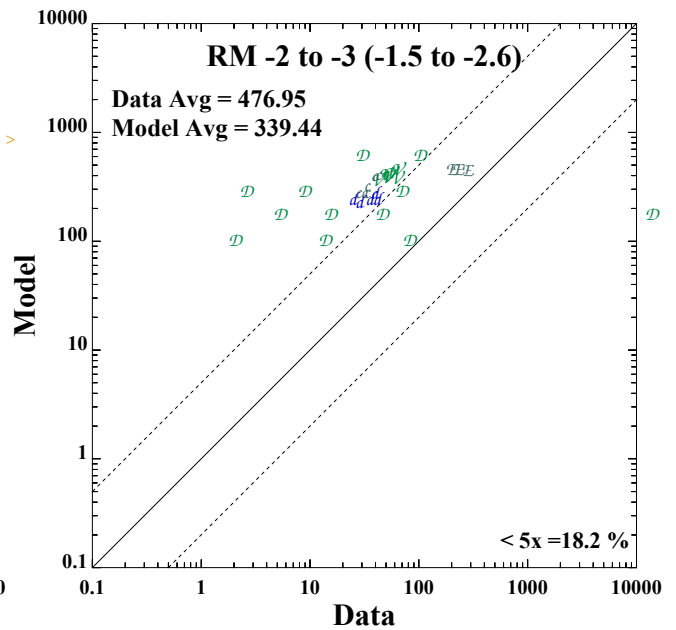
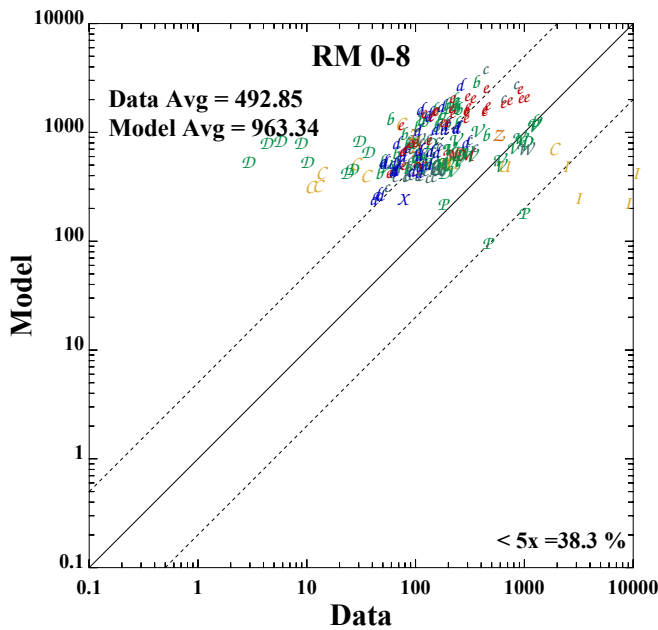
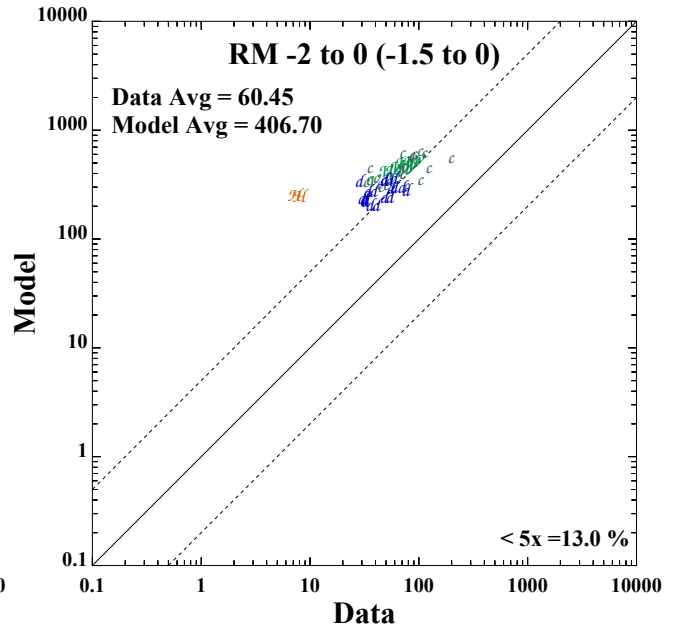
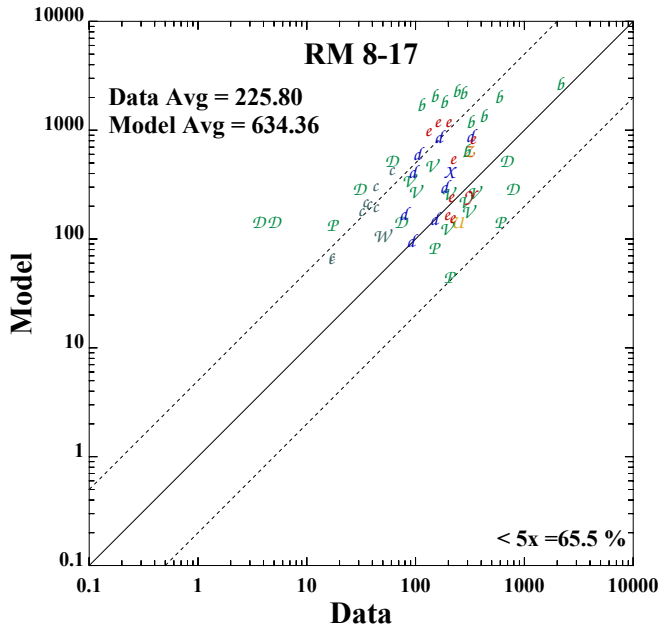
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#081 (pg/L) (PCB-TEF1)



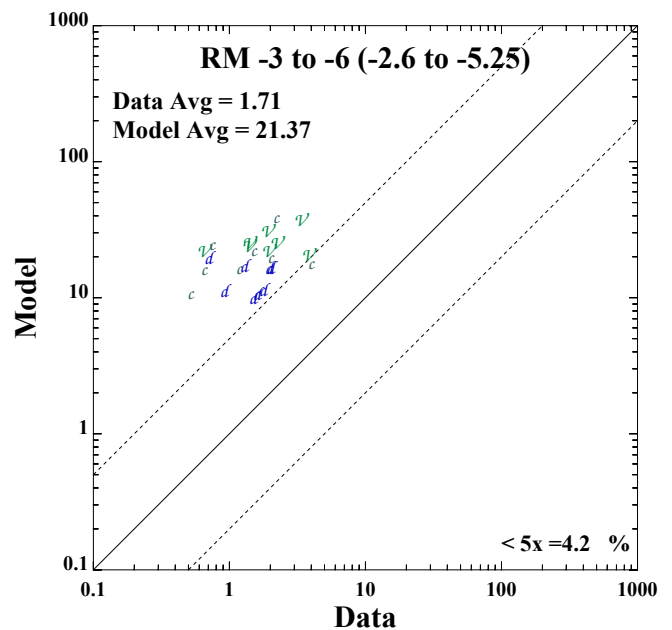
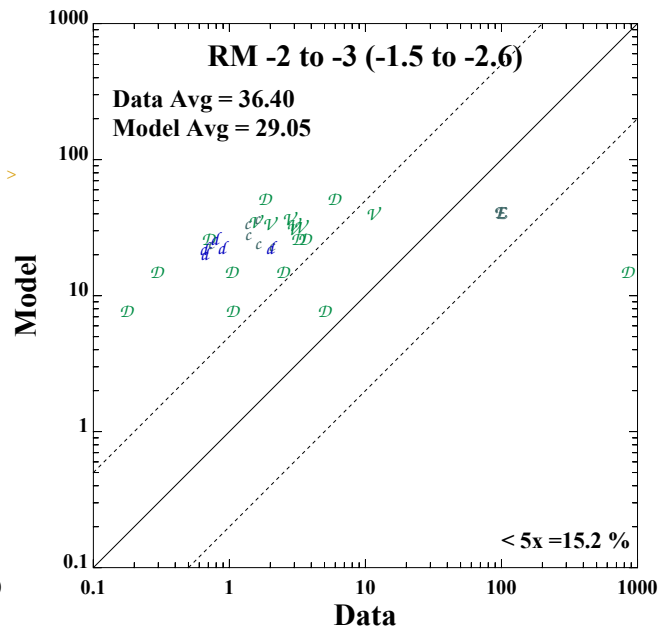
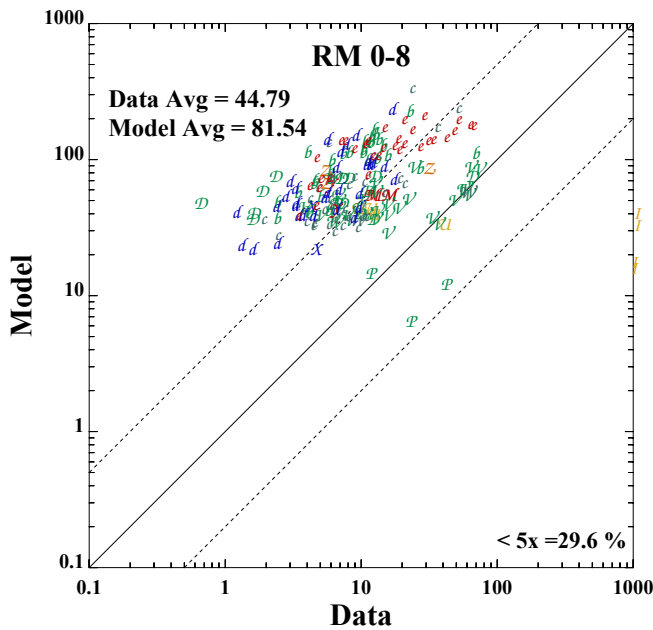
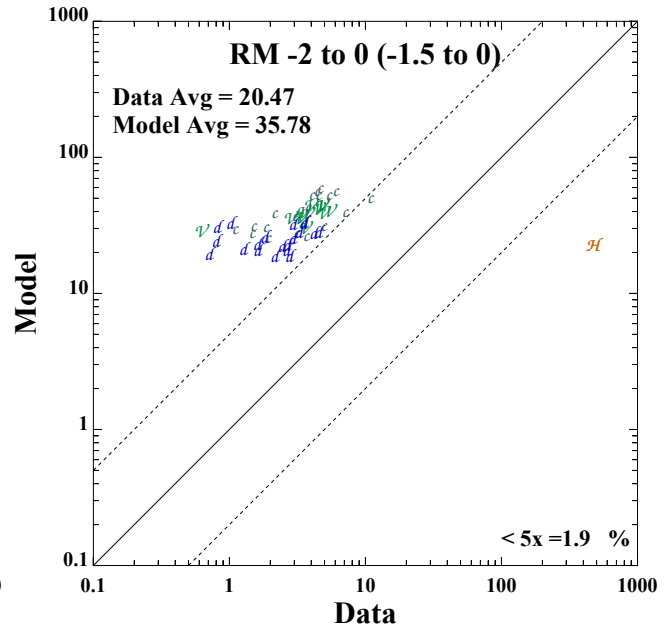
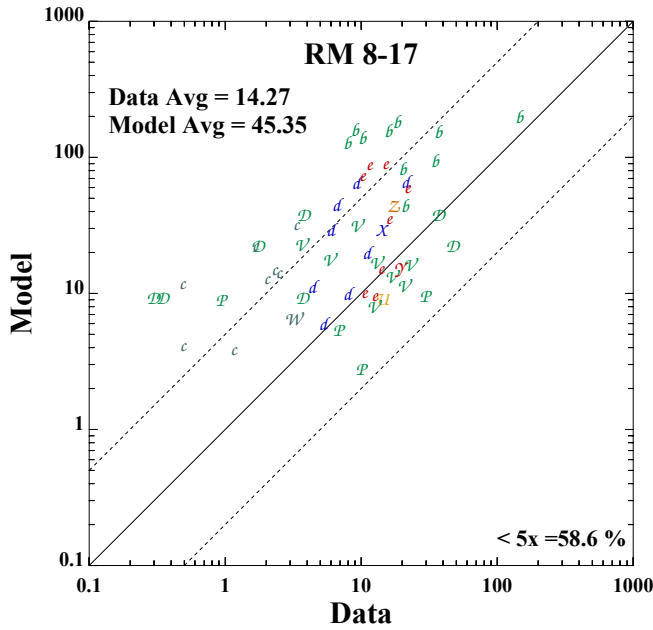
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#105 (pg/L) (PCB-TEF1)



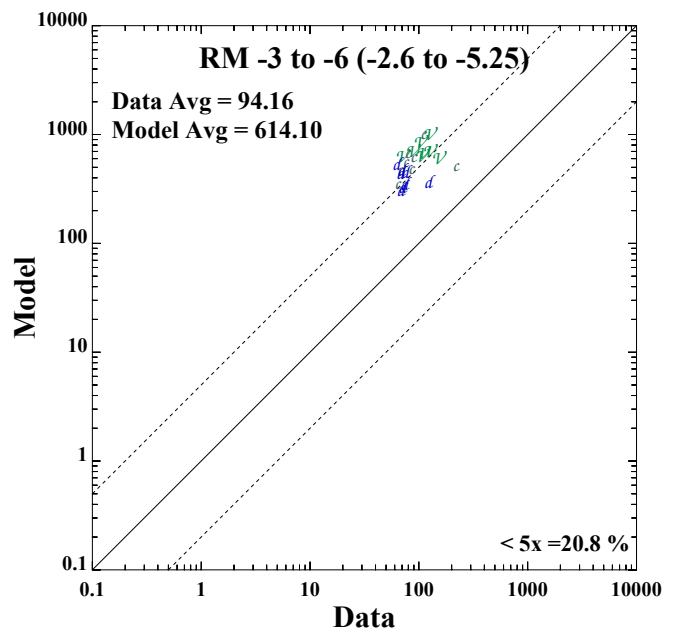
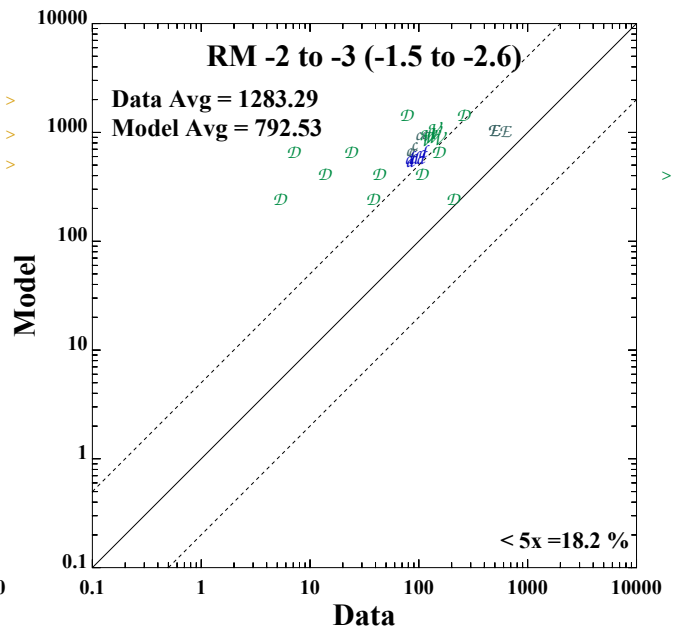
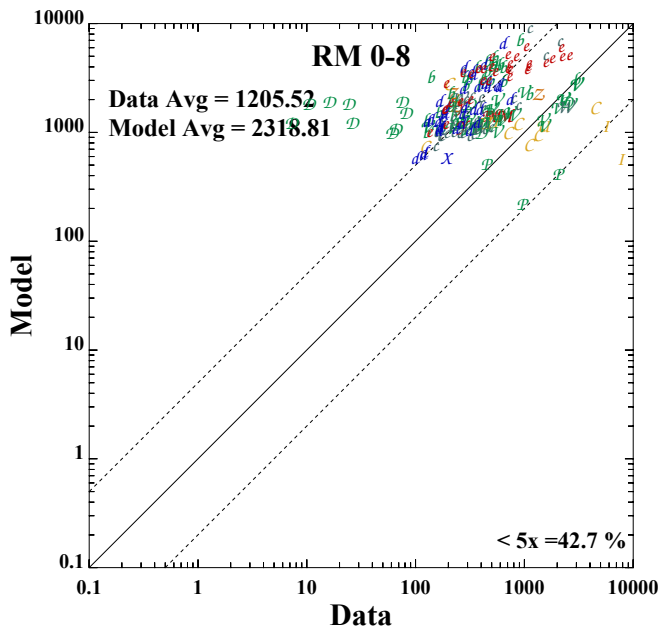
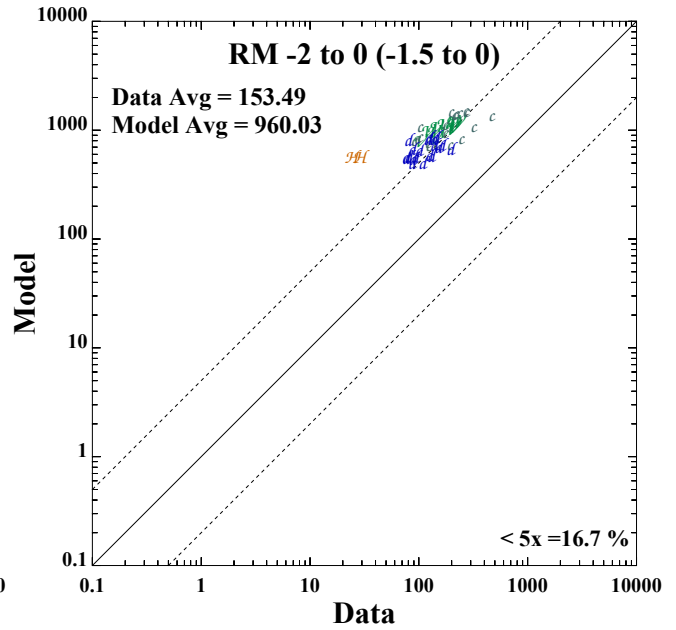
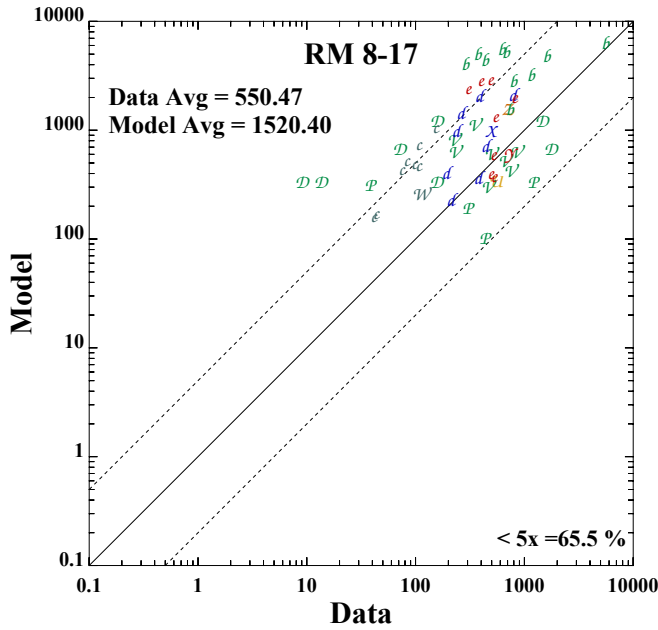
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#114 (pg/L) (PCB-TEF1)



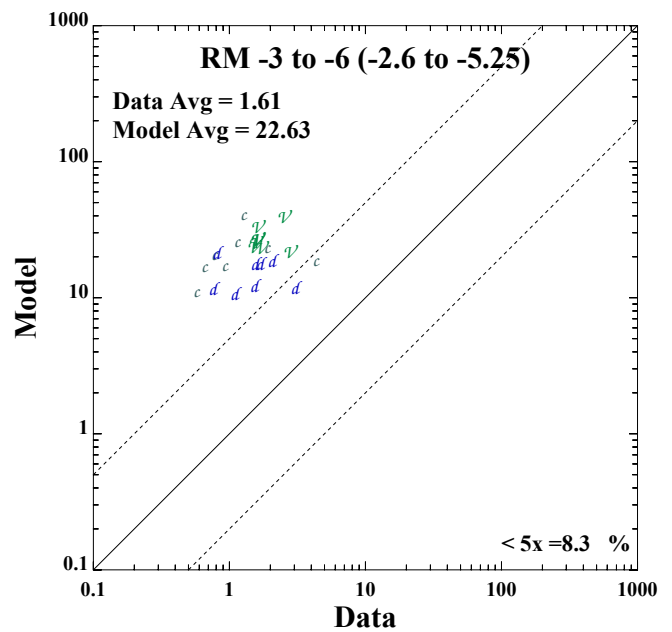
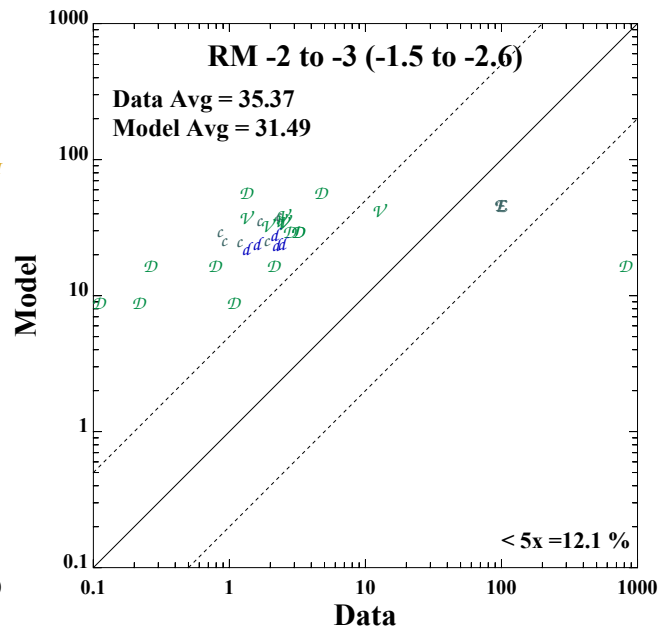
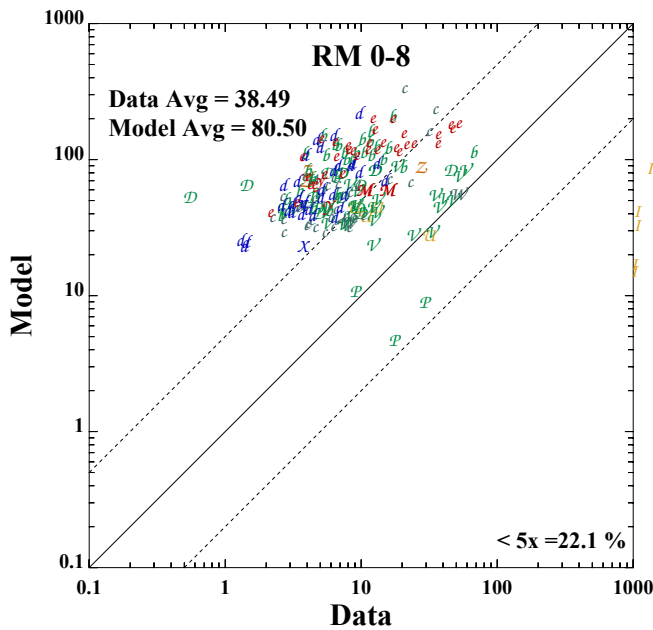
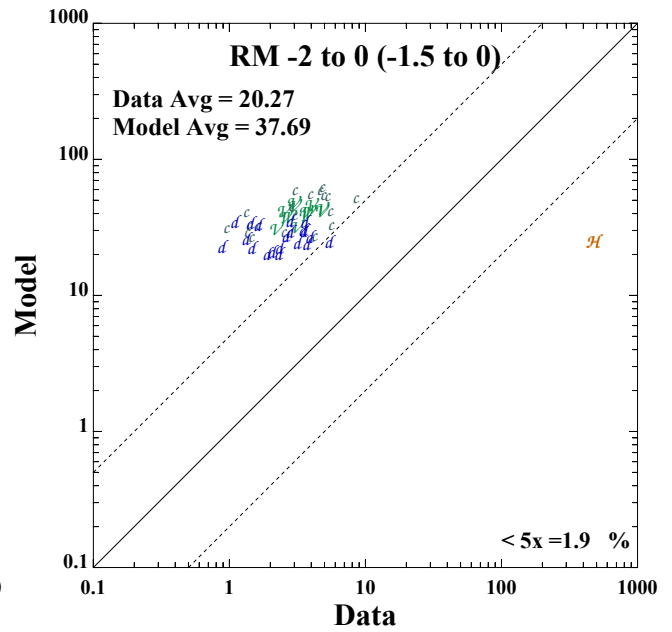
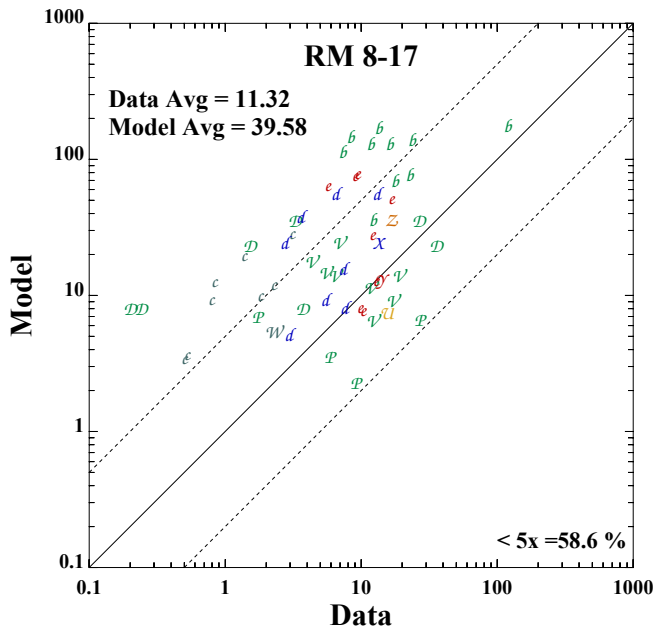
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#118 (pg/L) (PCB-TEF1)



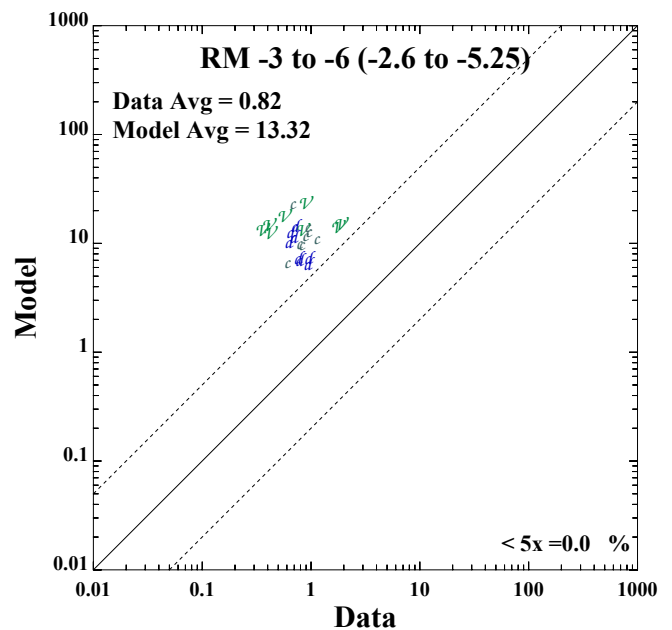
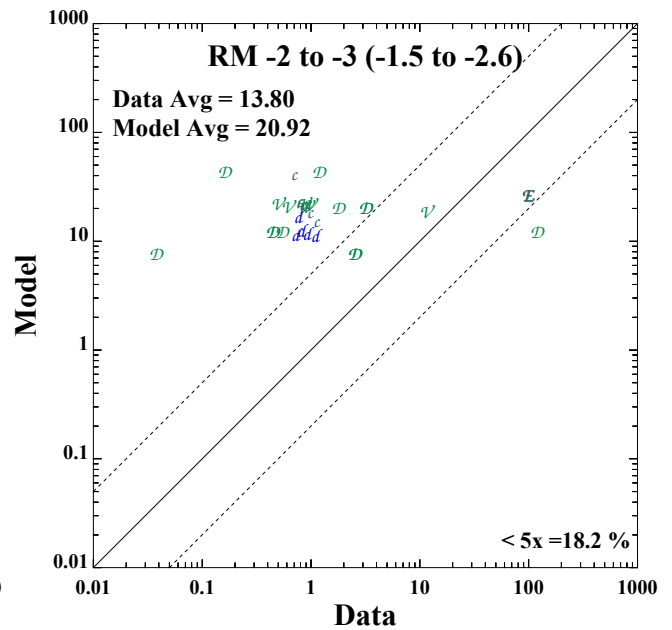
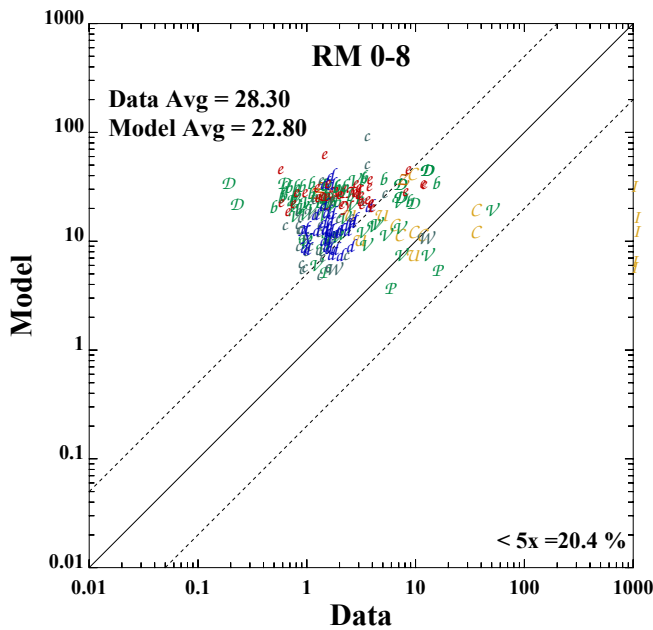
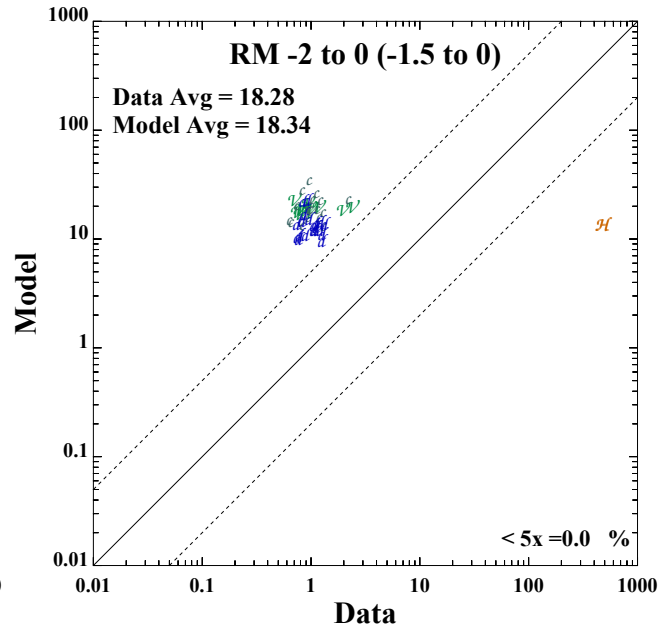
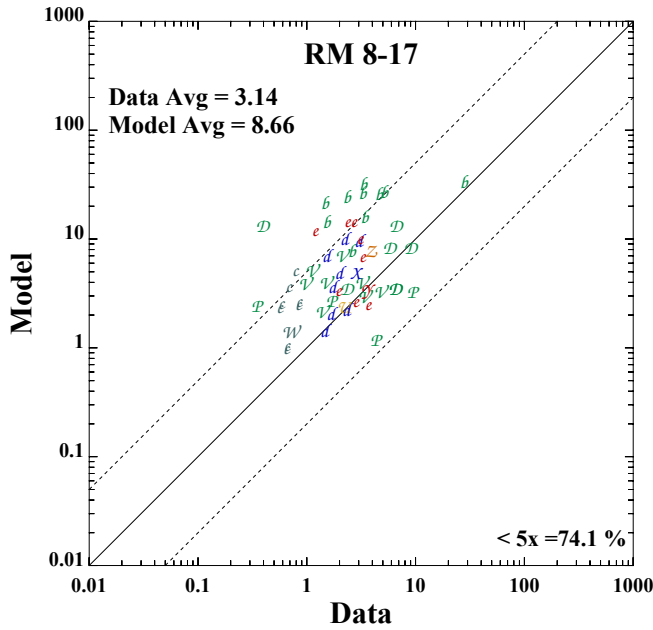
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#123 (pg/L) (PCB-TEF1)



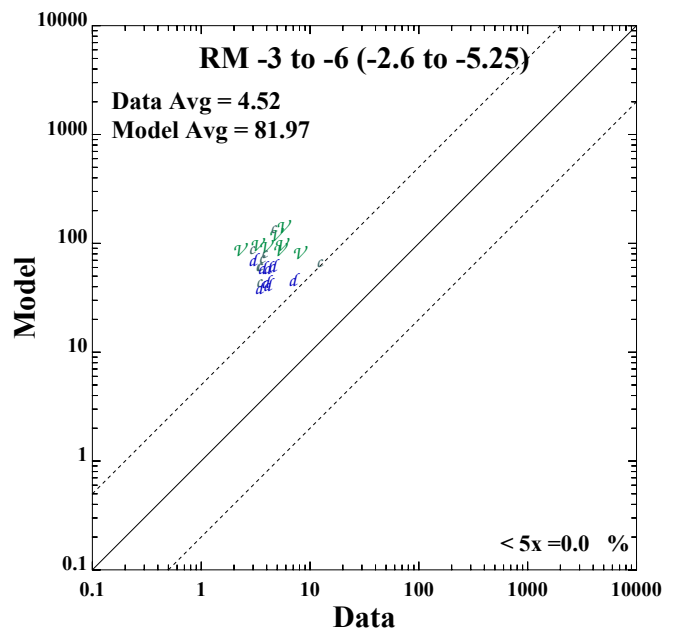
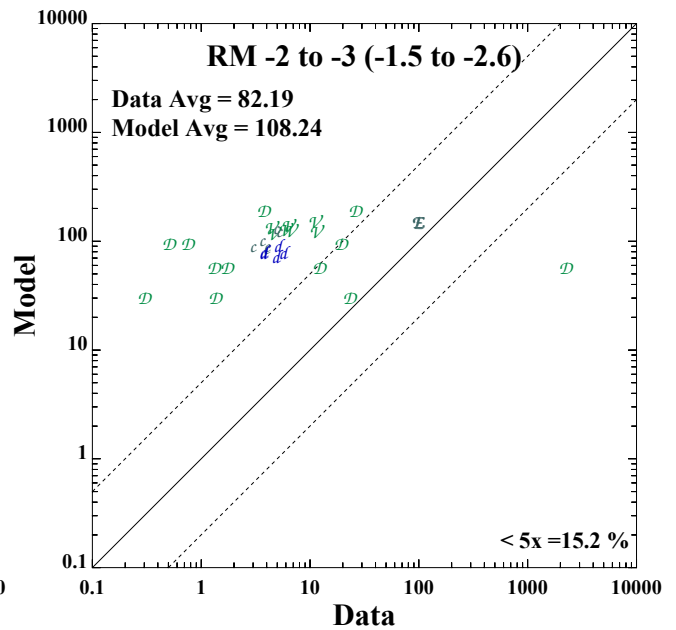
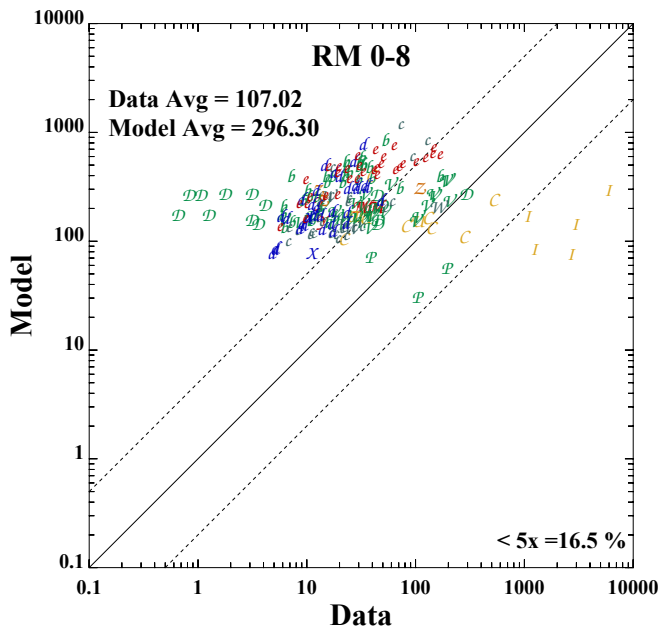
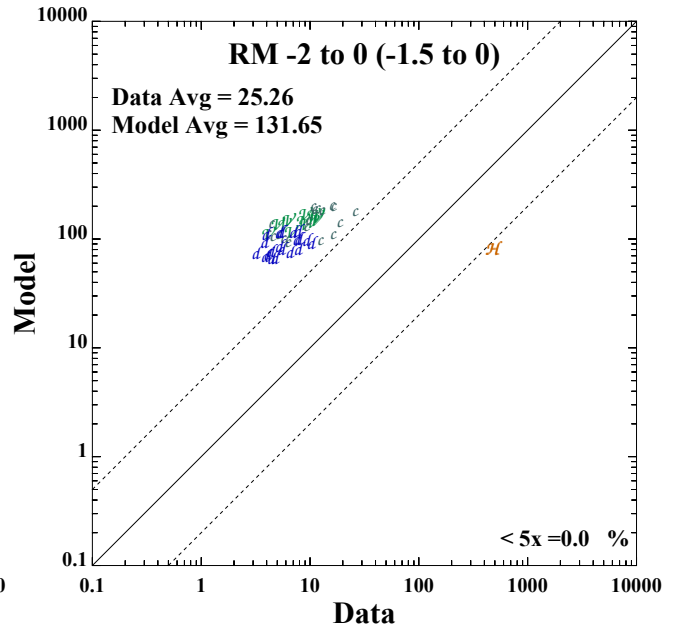
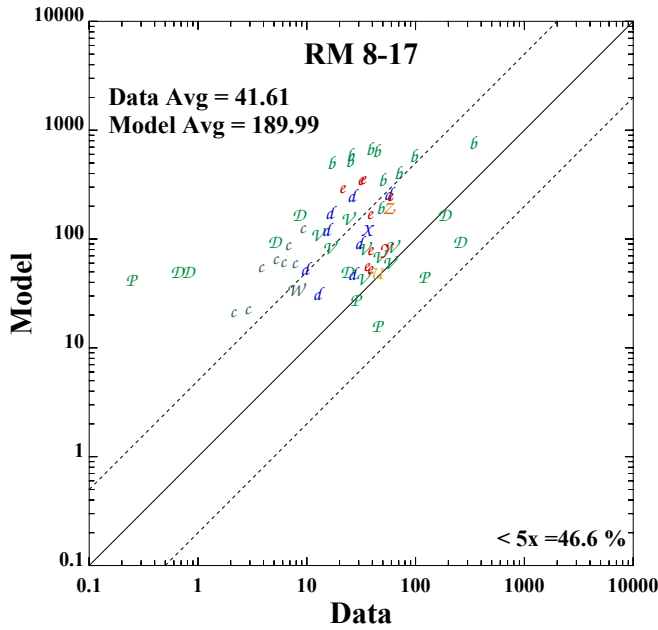
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#126 (pg/L) (PCB-TEF2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

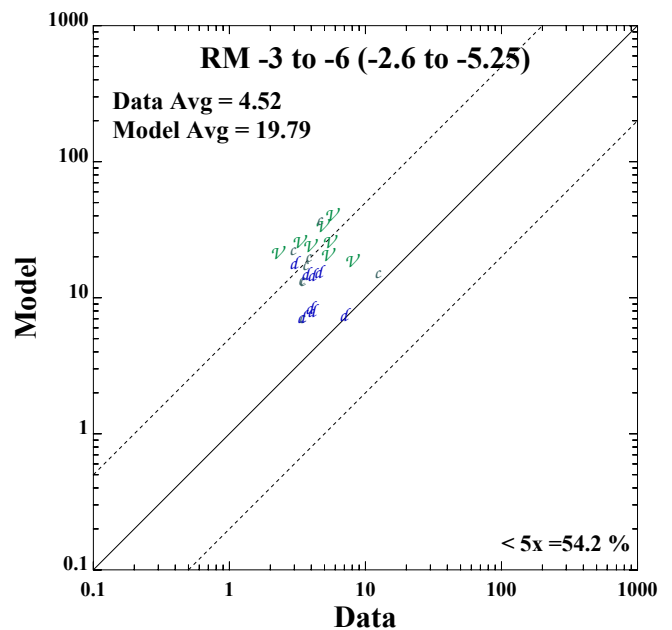
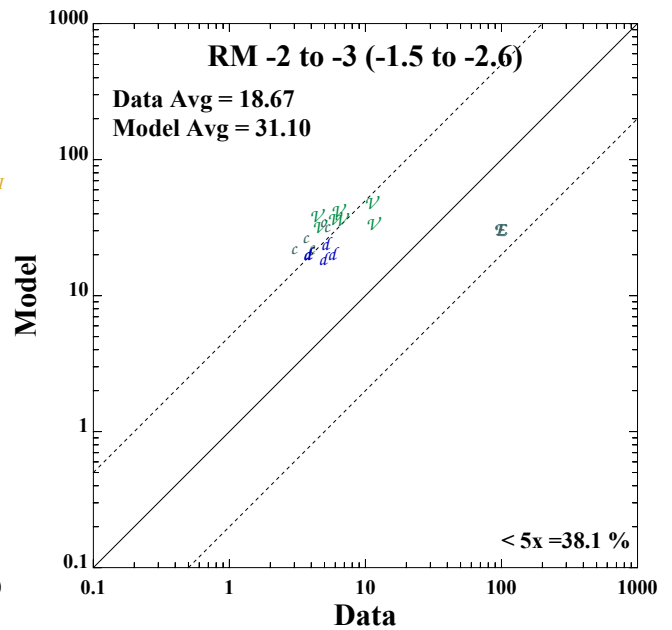
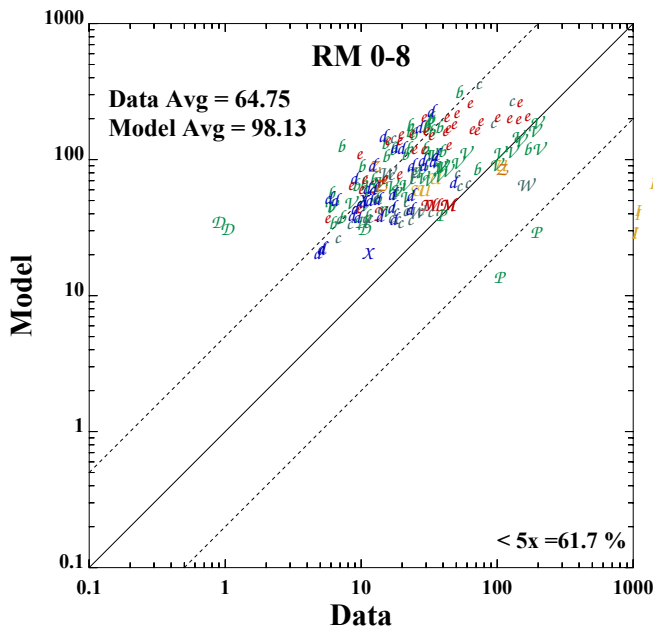
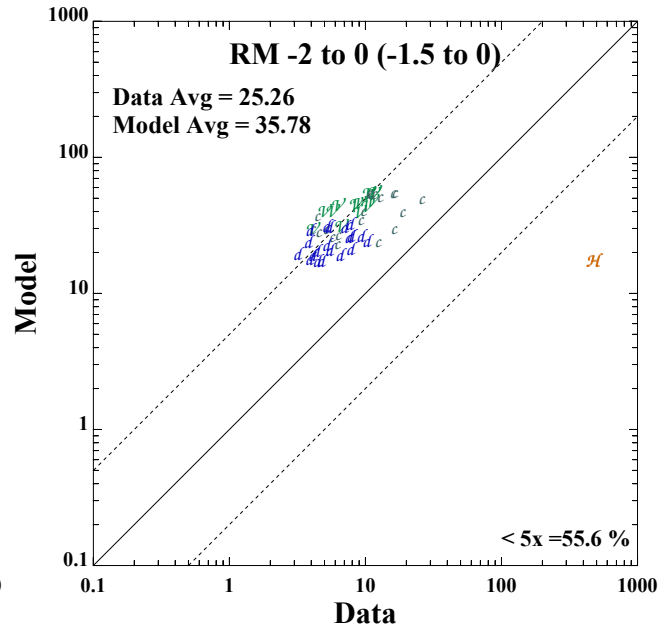
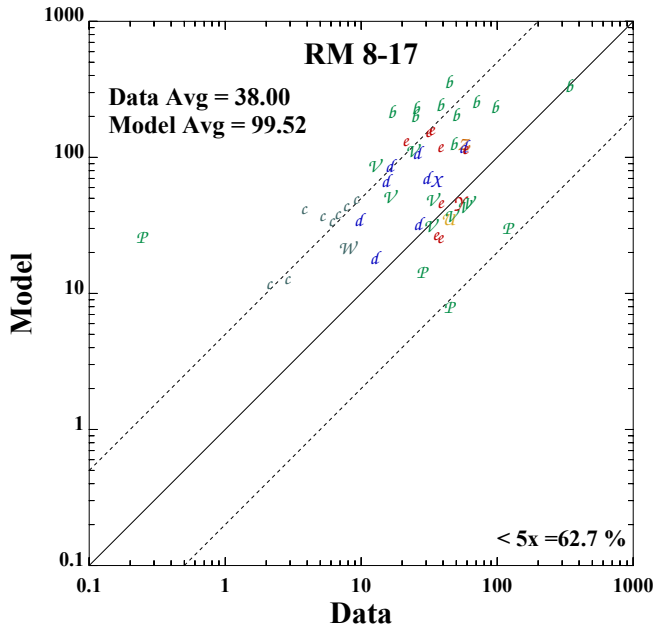
# All Layers BZ#156 (pg/L) (PCB-TEF2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

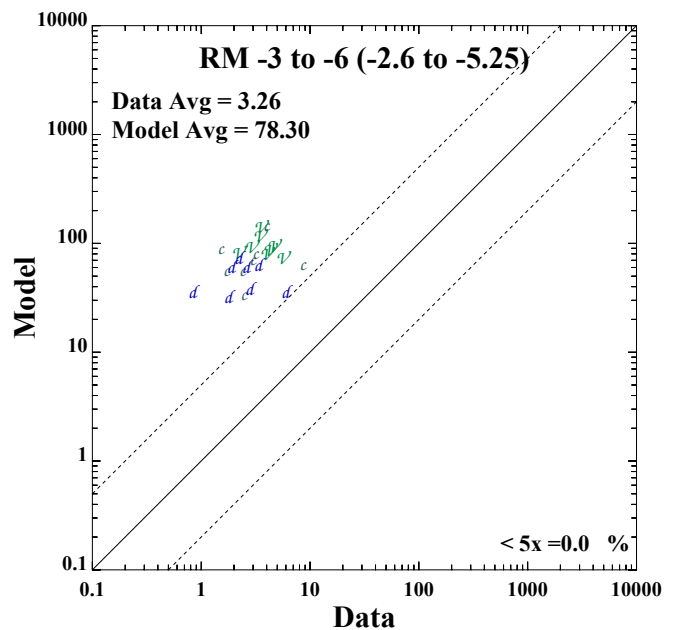
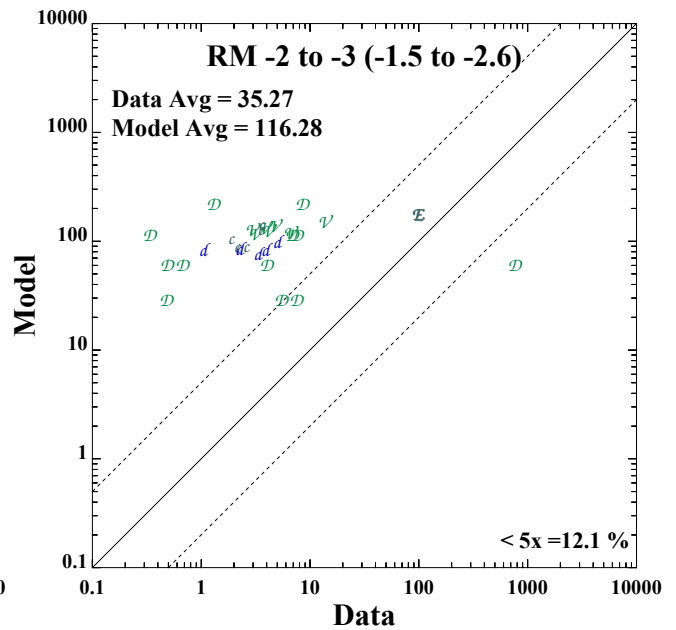
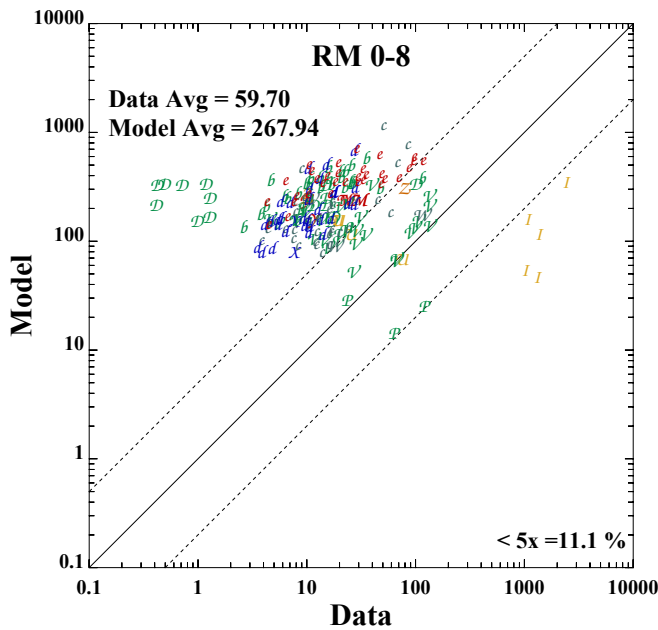
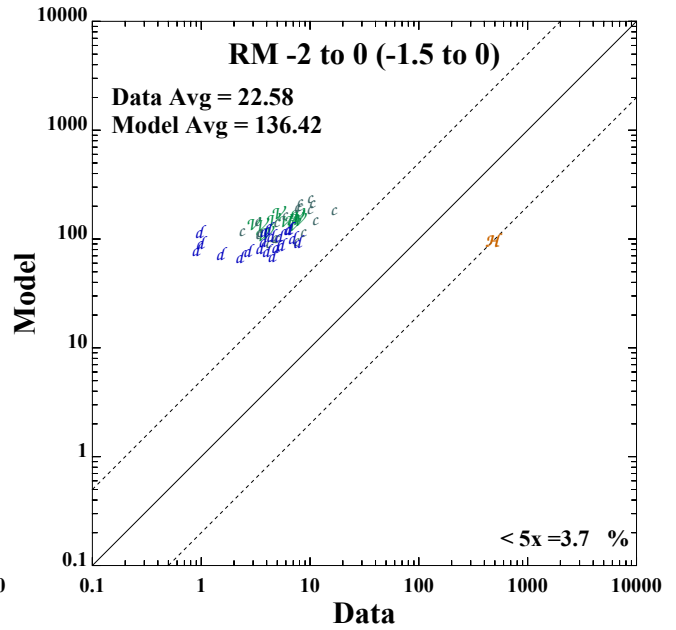
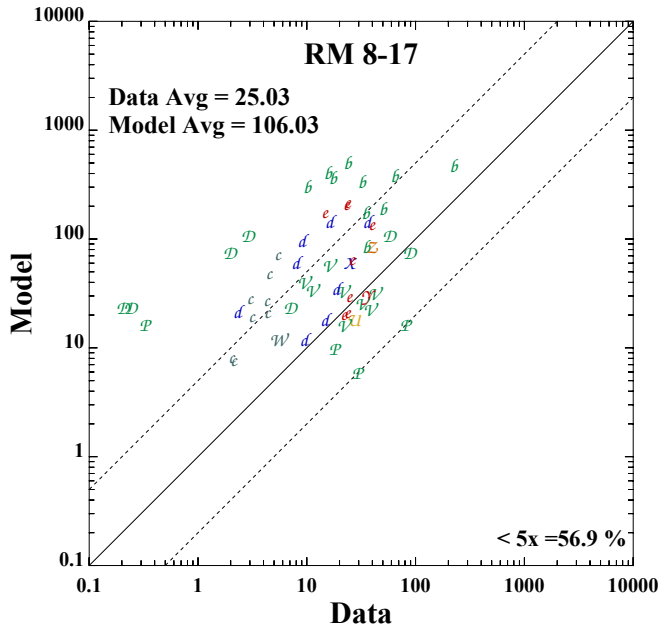


# All Layers BZ#157 (pg/L) (PCB-TEF2)



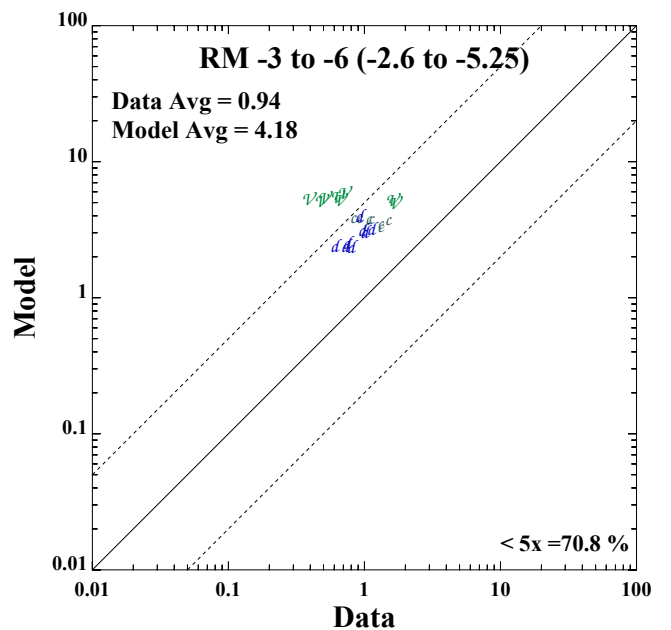
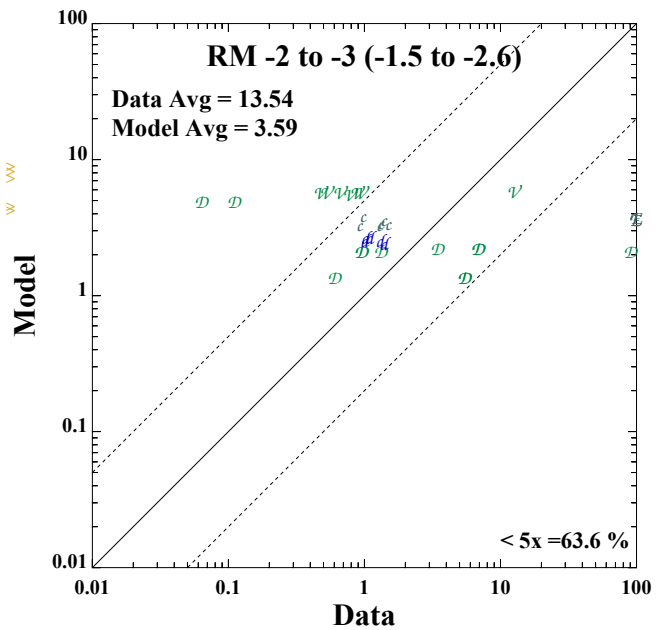
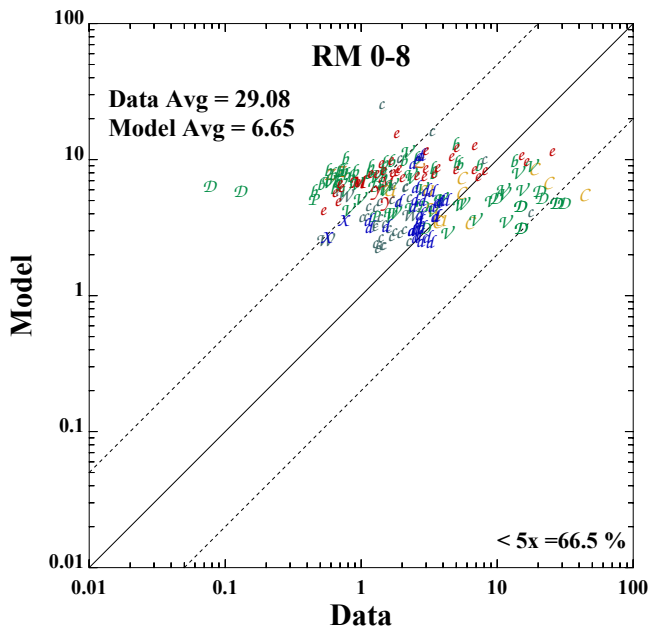
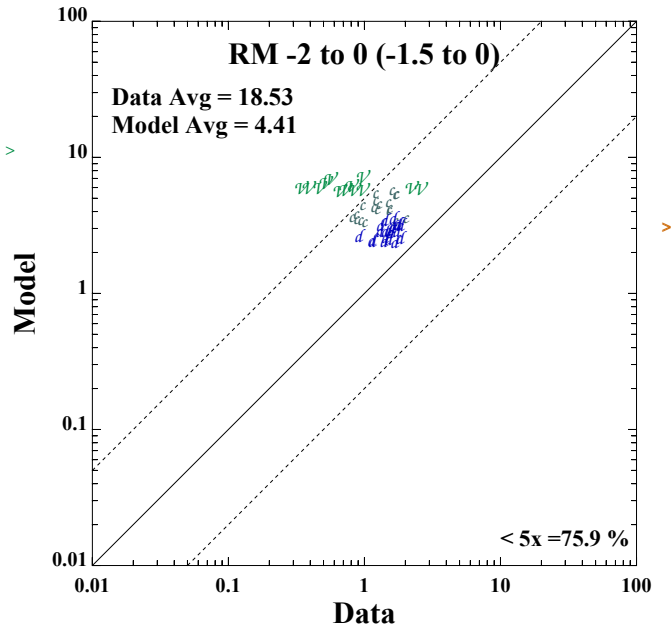
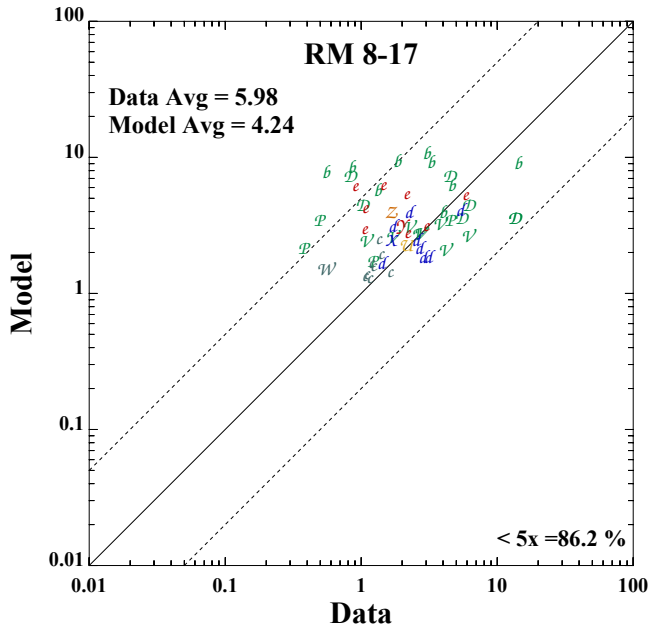
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#167 (pg/L) (PCB-TEF2)



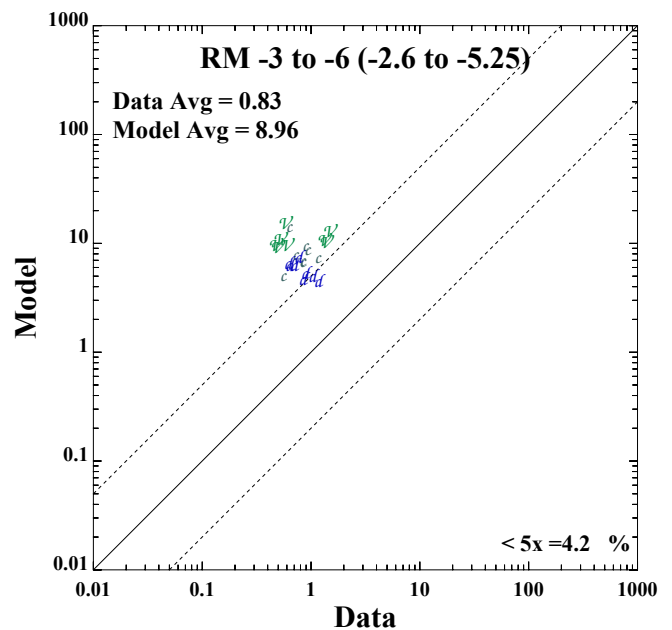
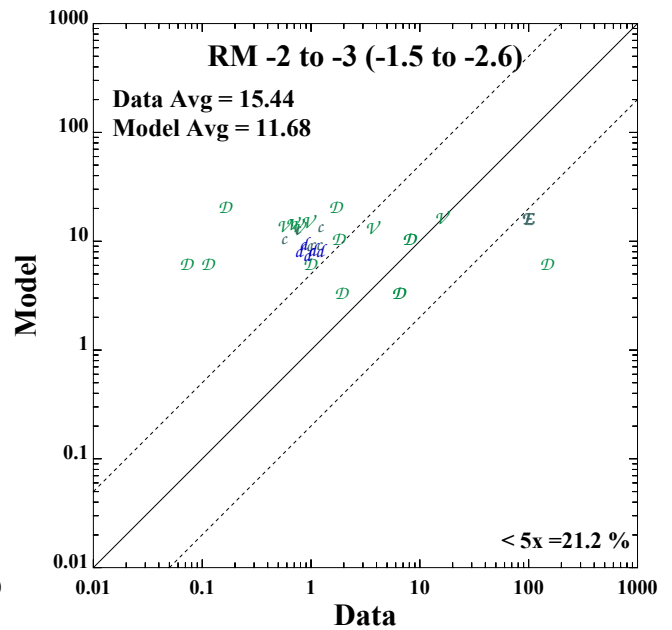
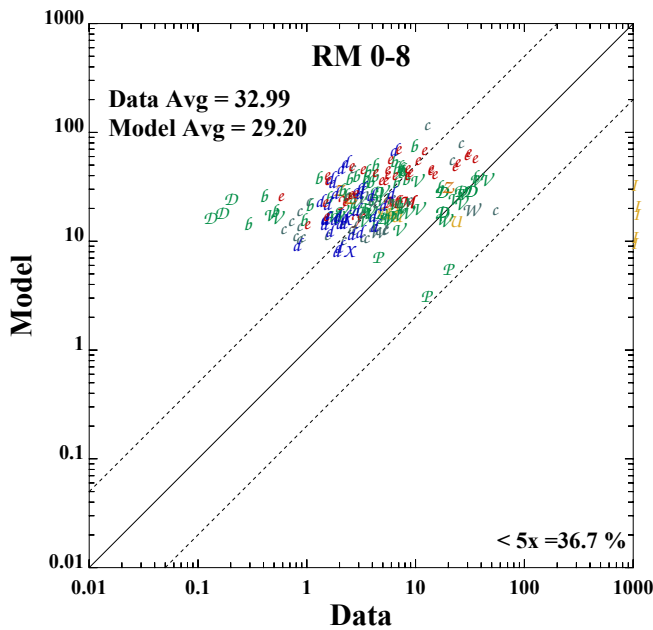
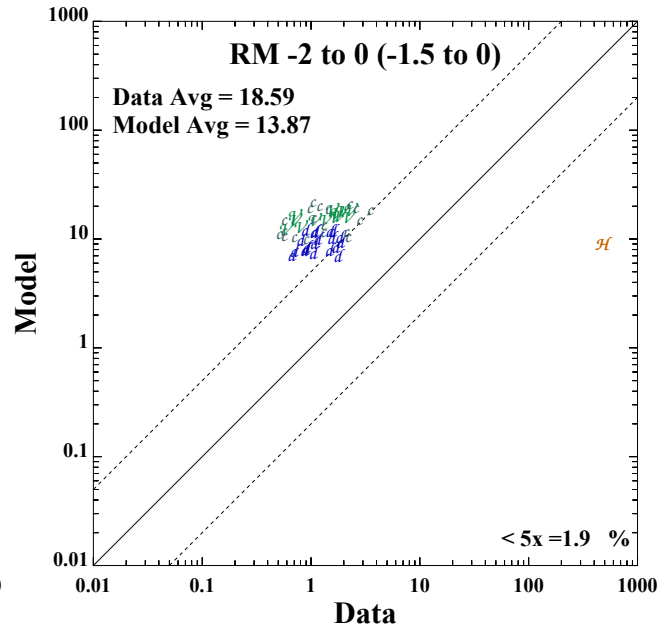
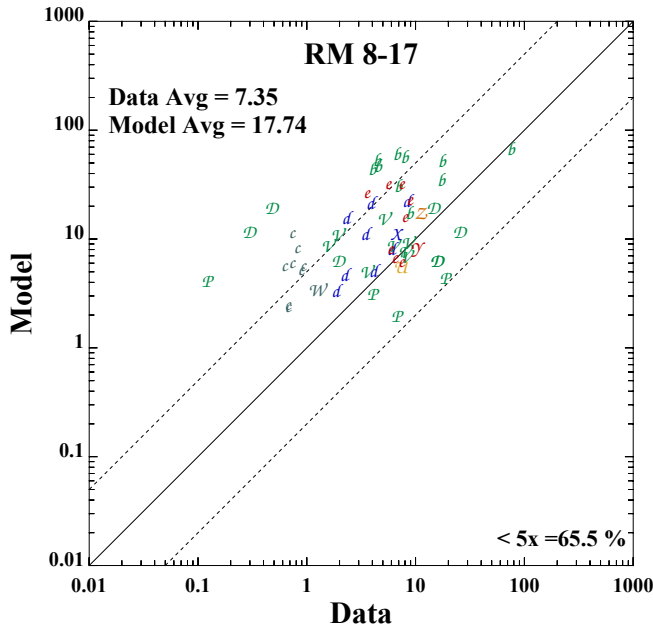
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#169 (pg/L) (PCB-TEF2)



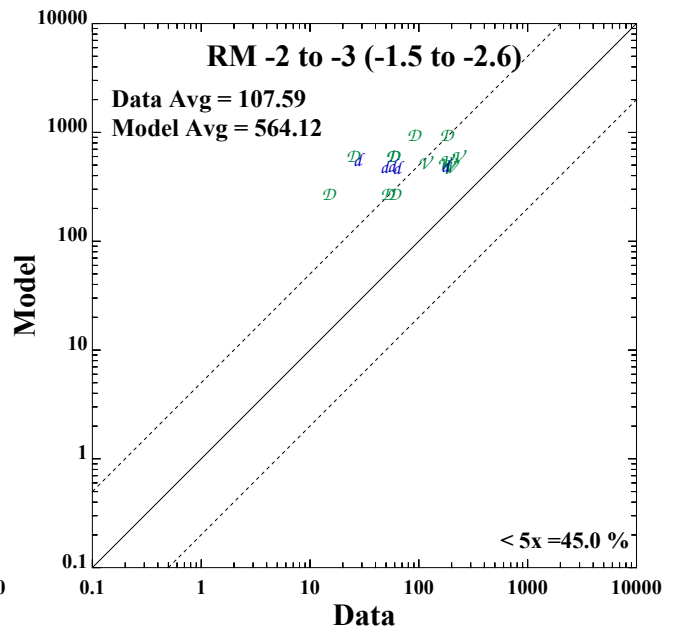
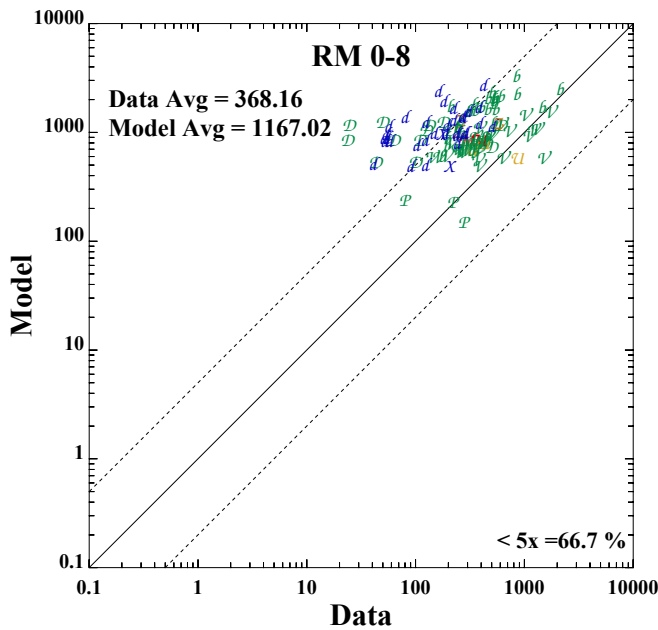
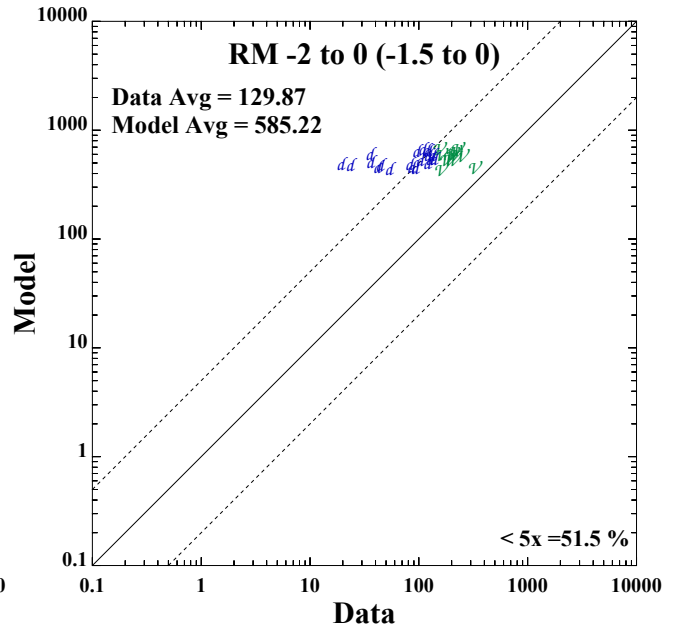
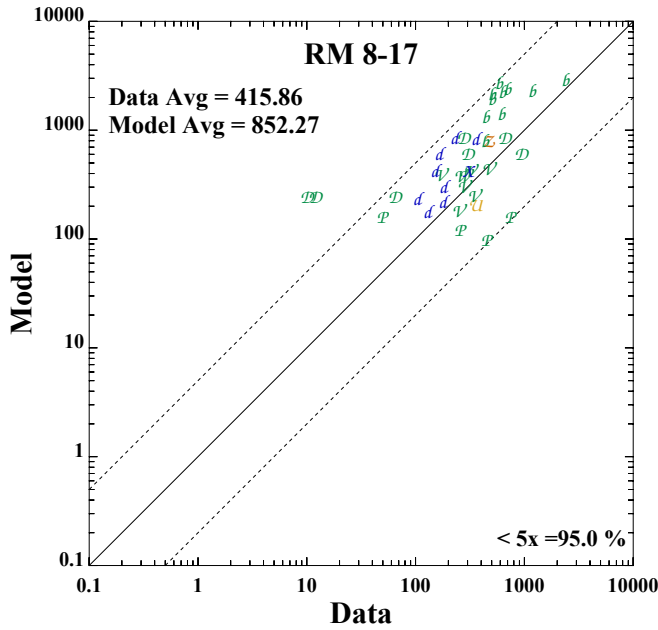
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers BZ#189 (pg/L) (PCB-TEF2)

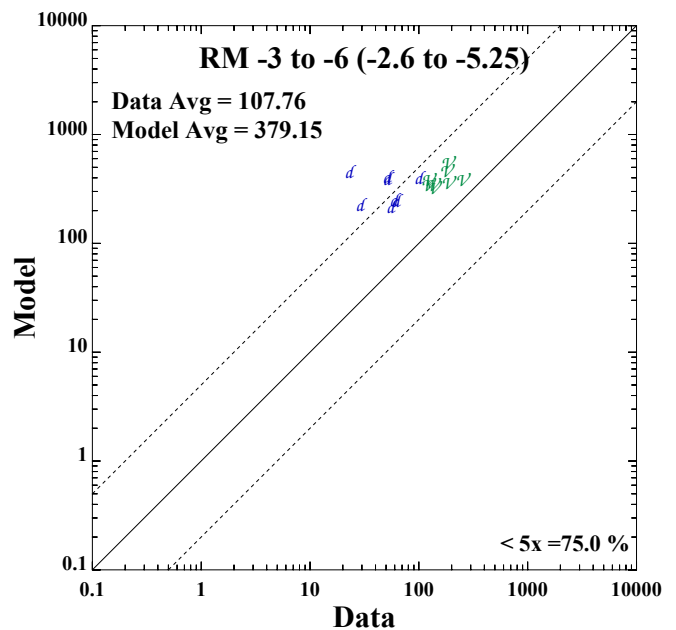


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

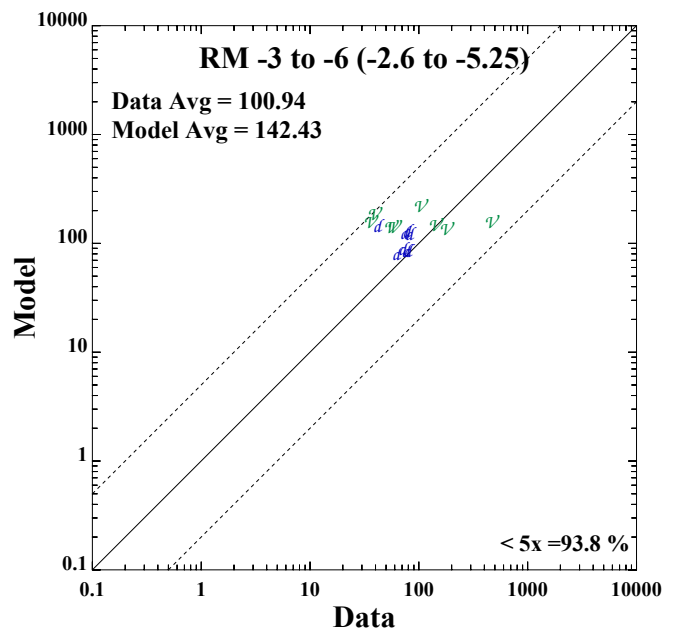
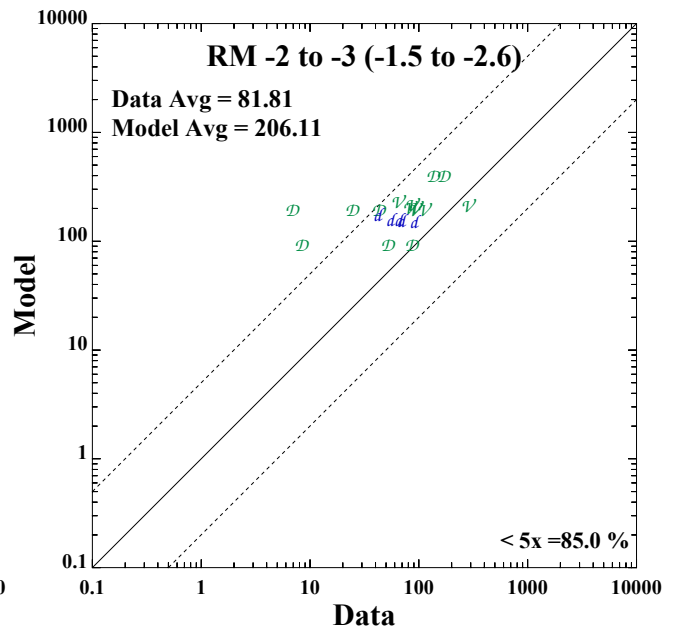
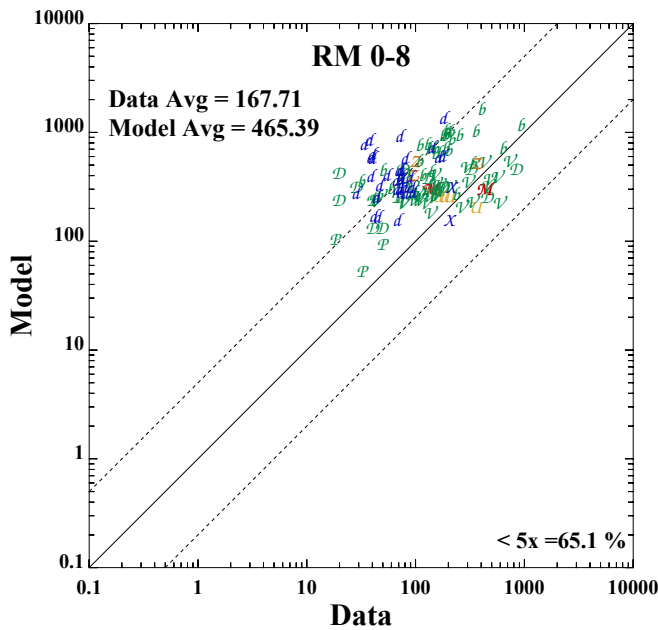
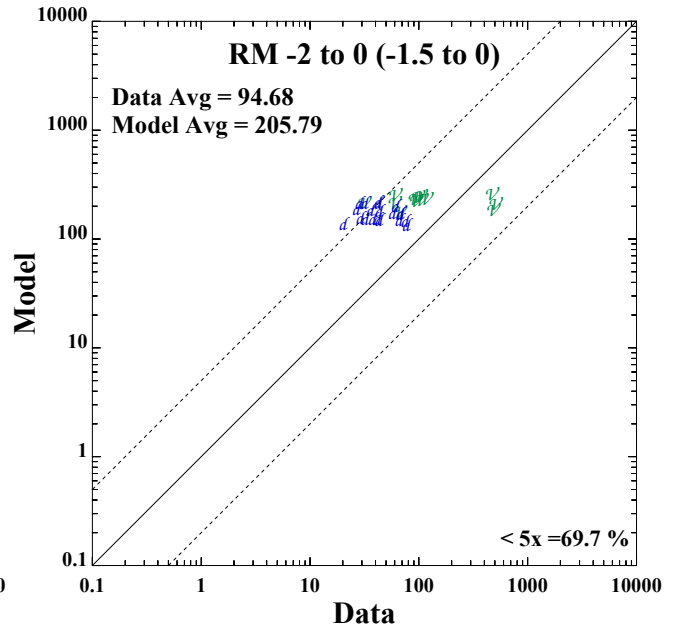
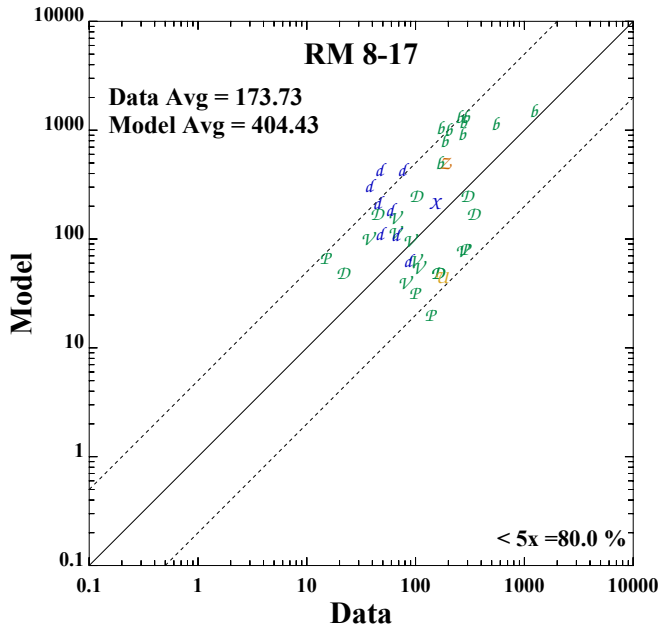
# All Layers 2,4-DDD (pg/L) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

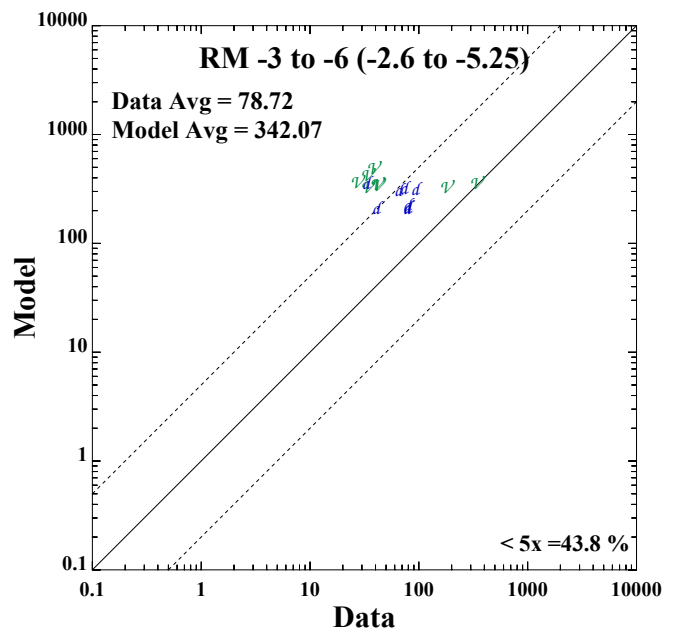
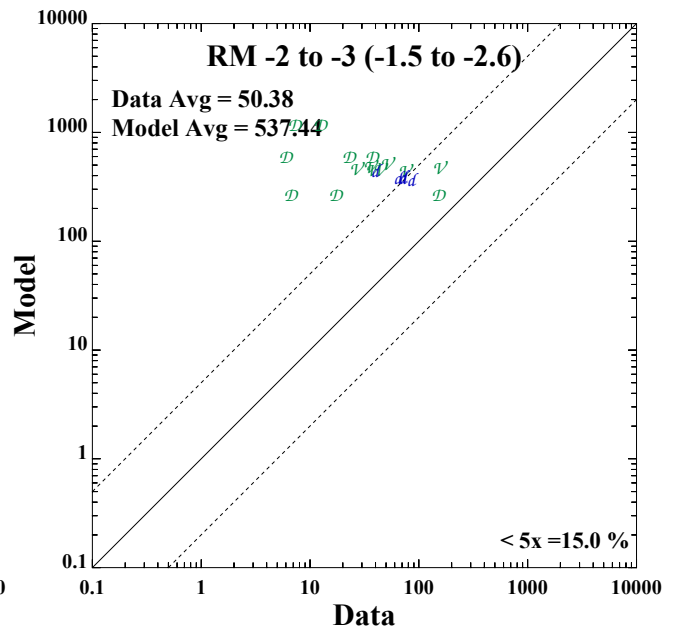
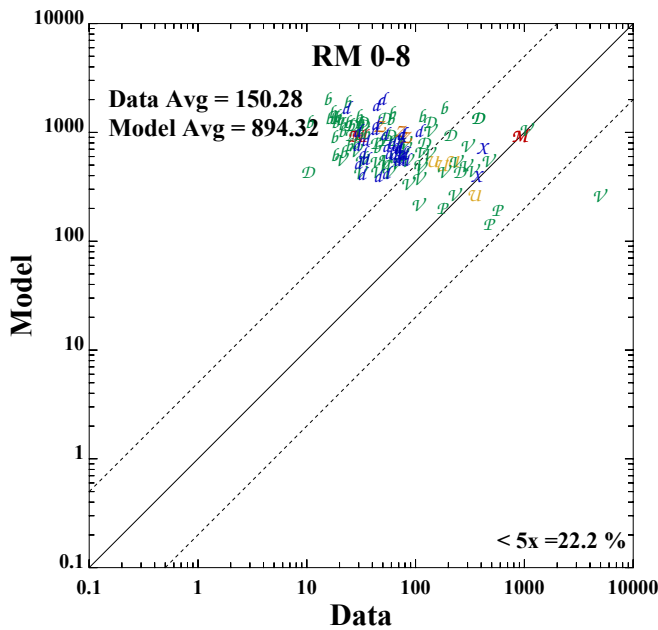
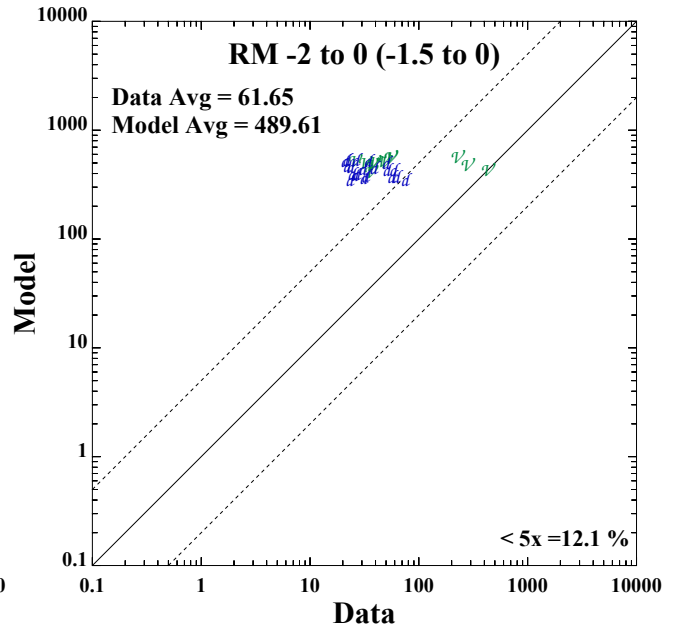
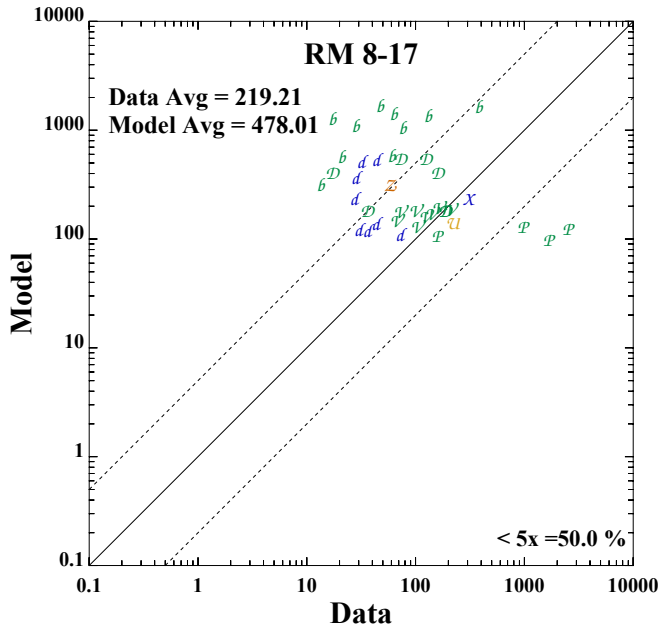


# All Layers 2,4-DDE (pg/L) (PEST1)



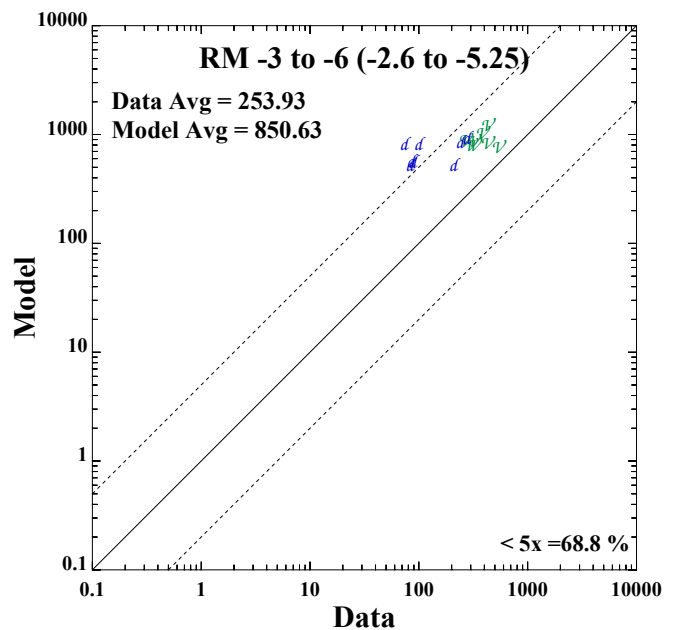
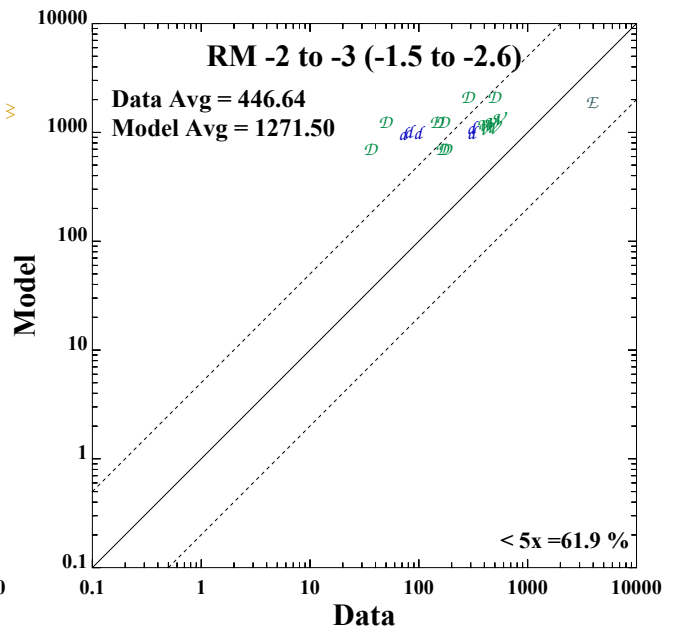
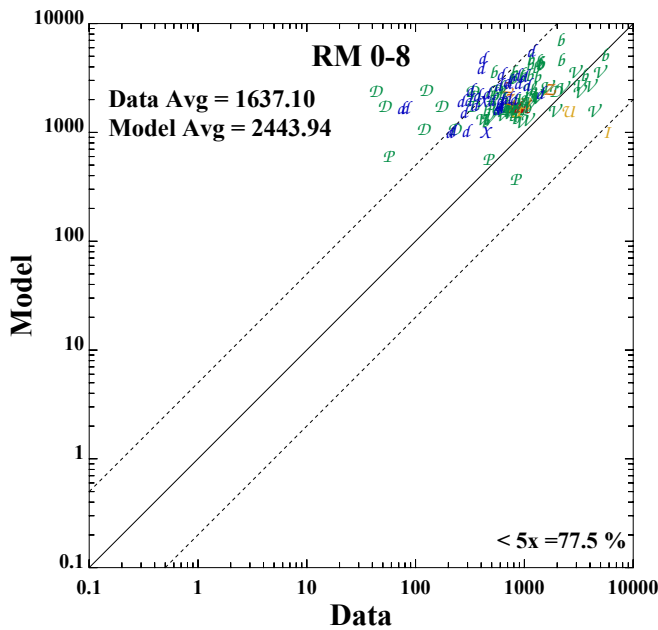
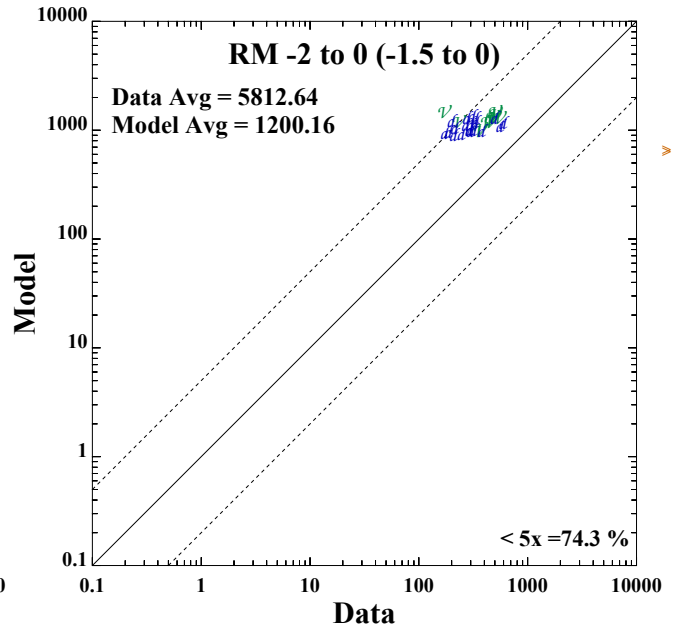
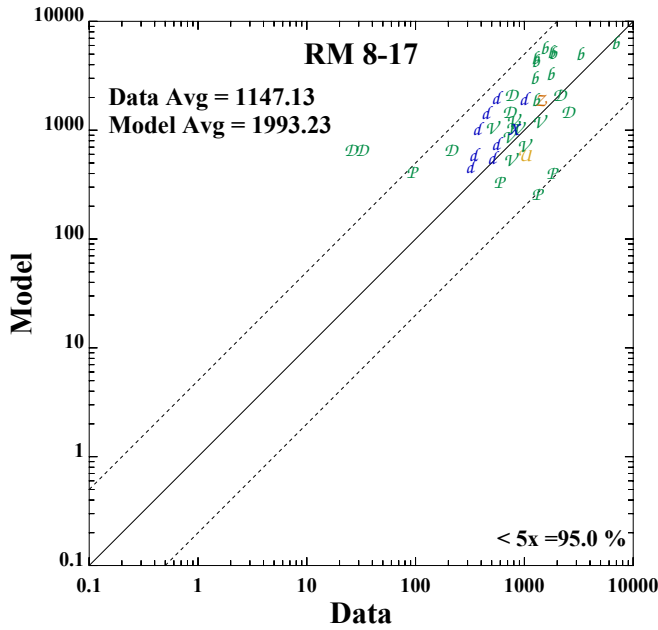
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 2,4-DDT (pg/L) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

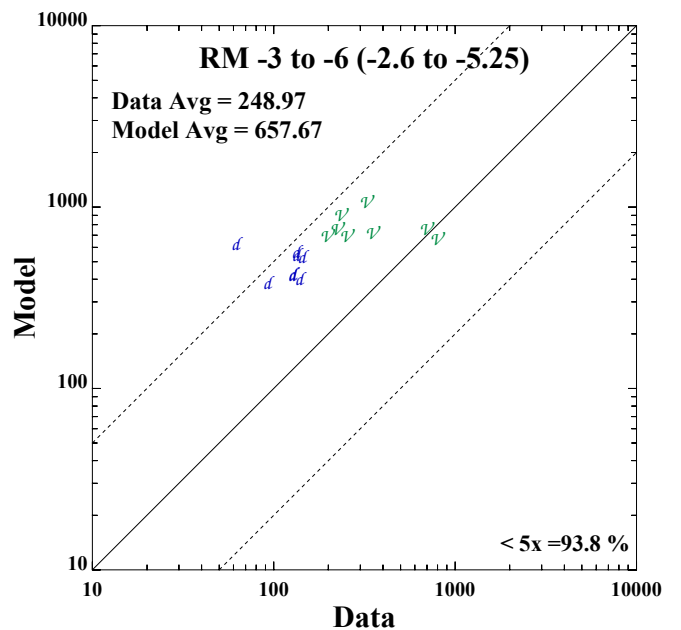
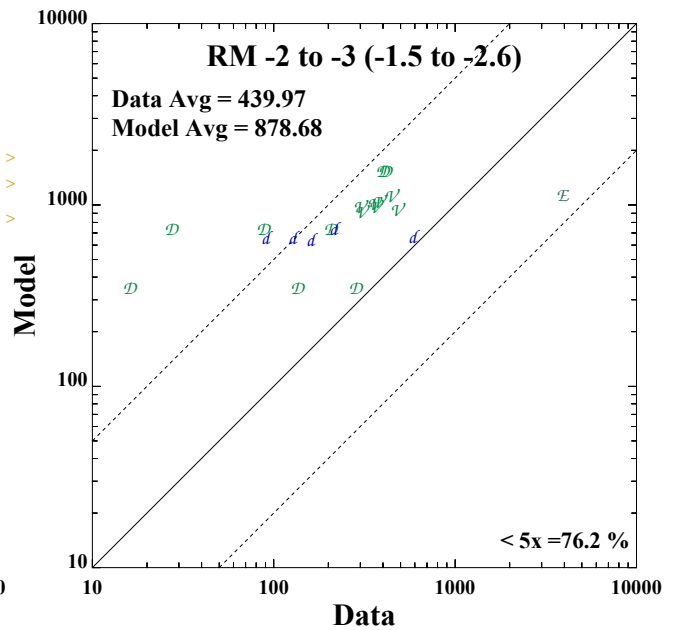
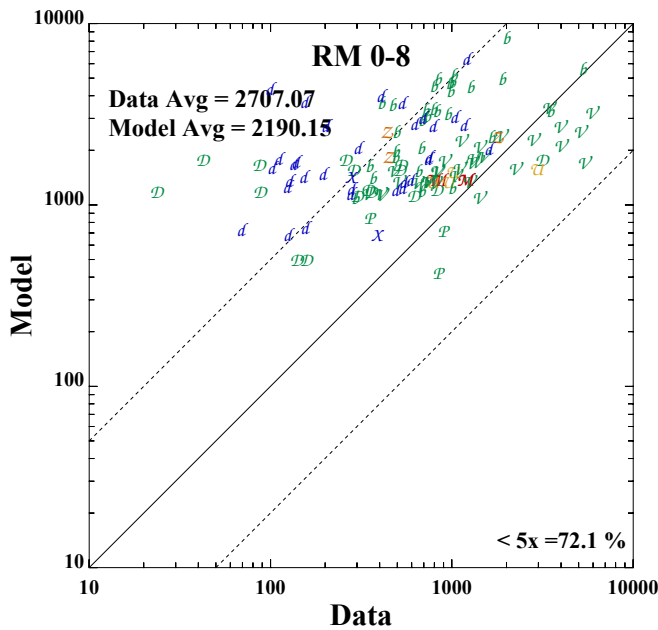
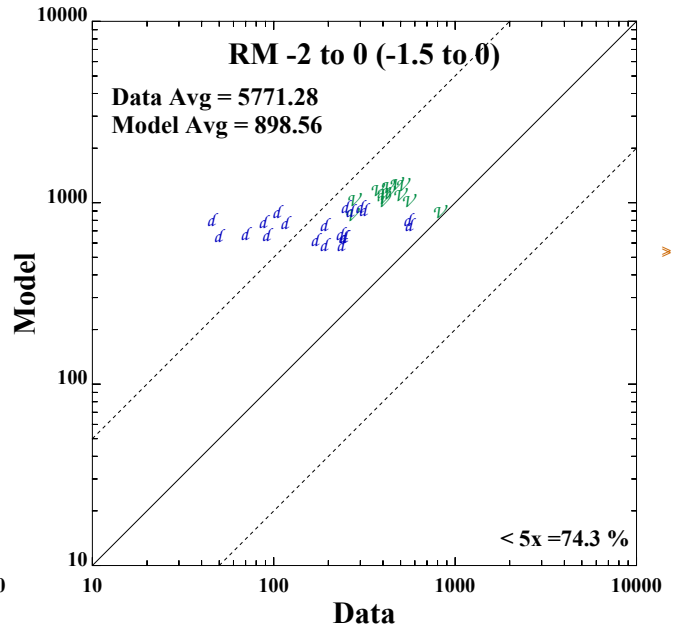
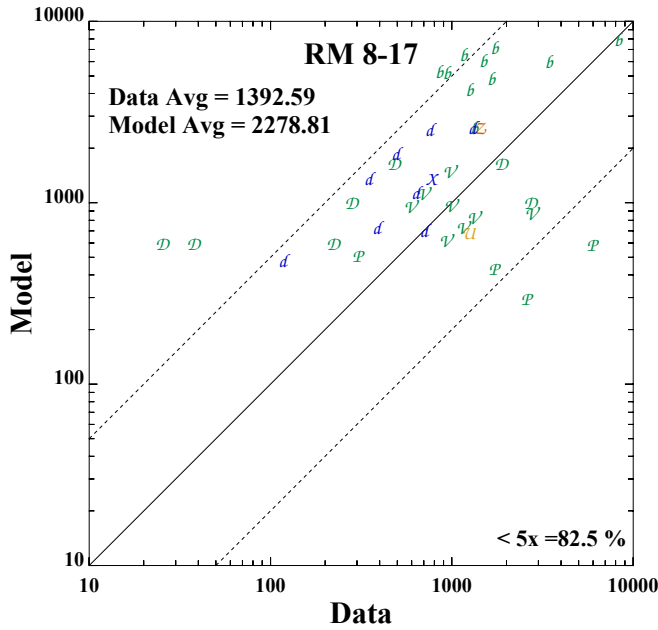
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- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

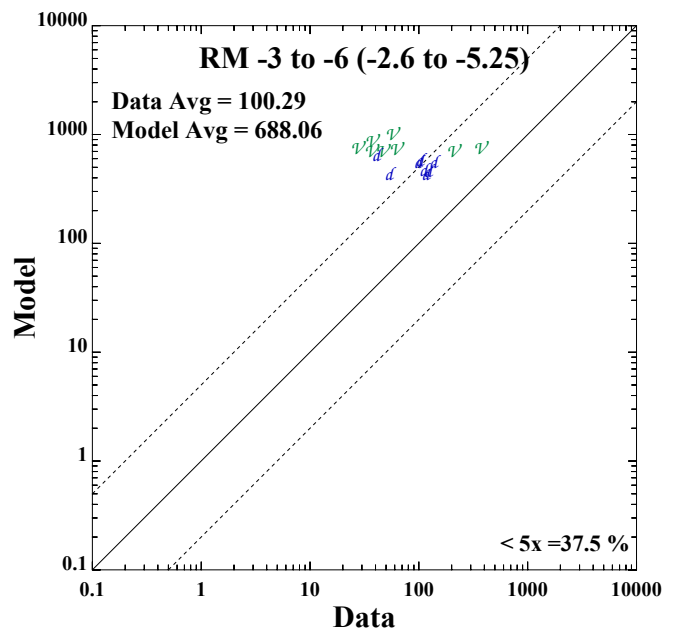
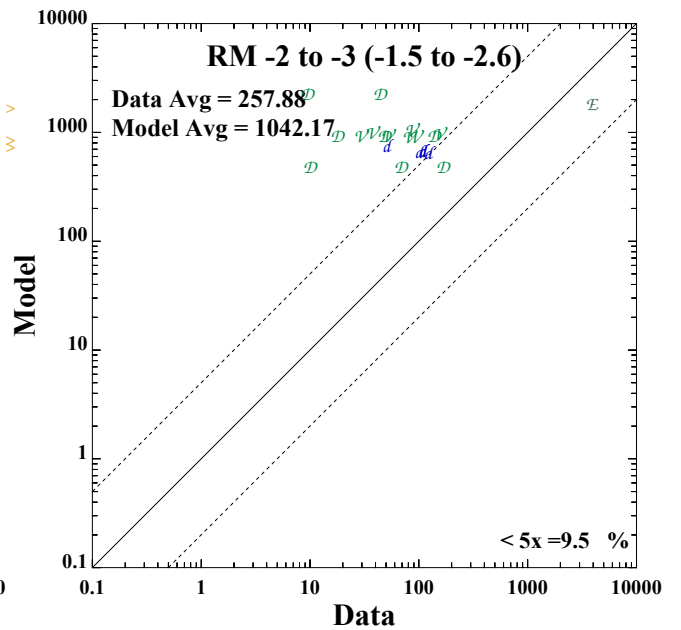
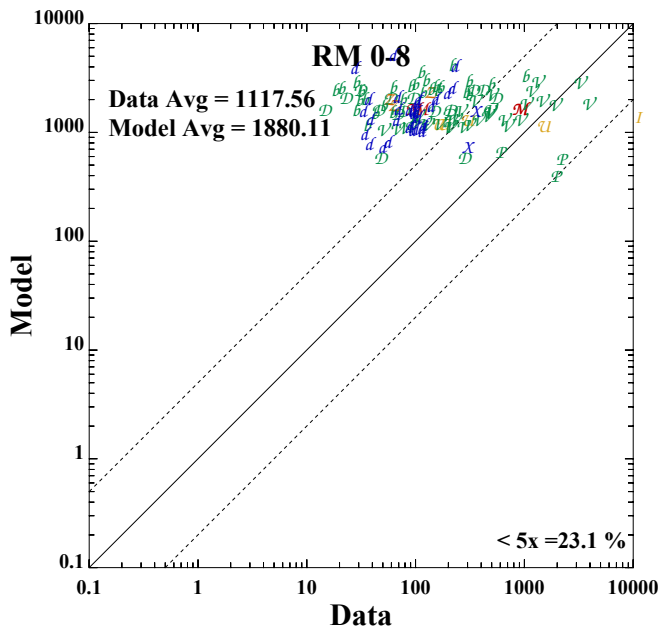
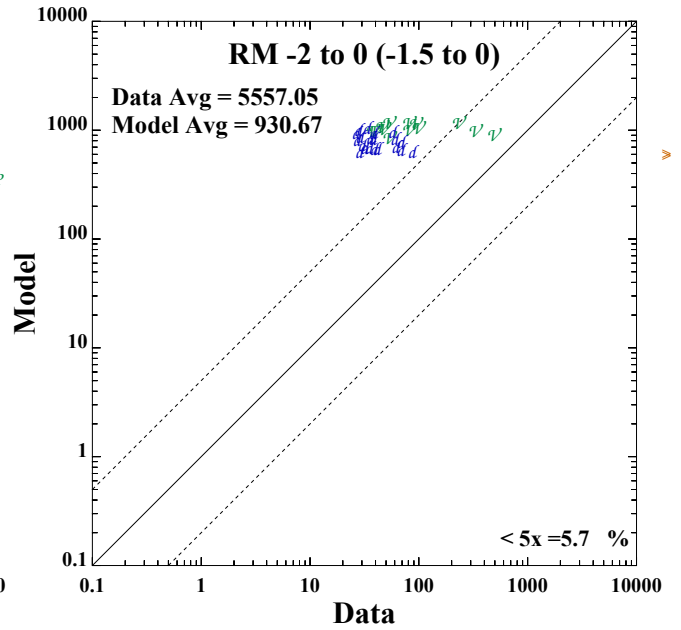
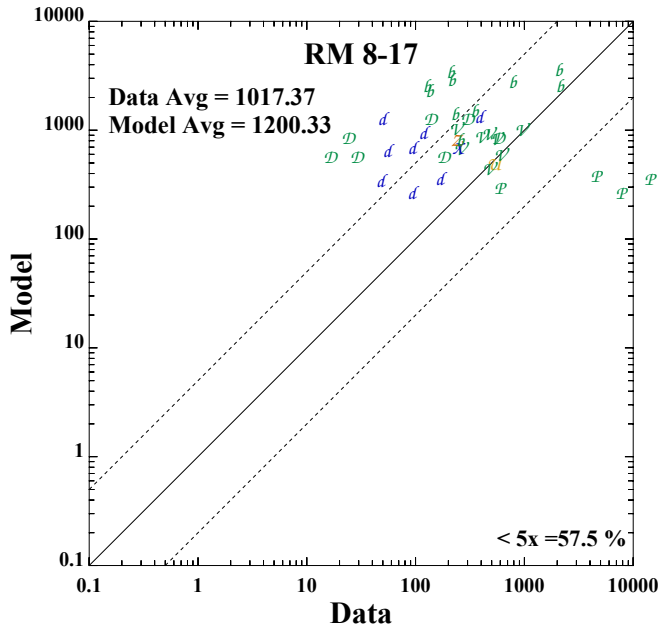


# All Layers 4,4-DDE (pg/L) (PEST1)



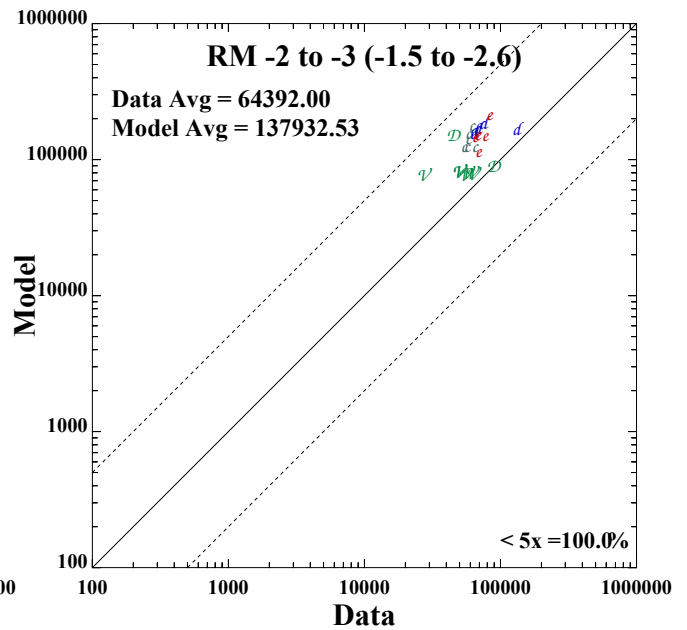
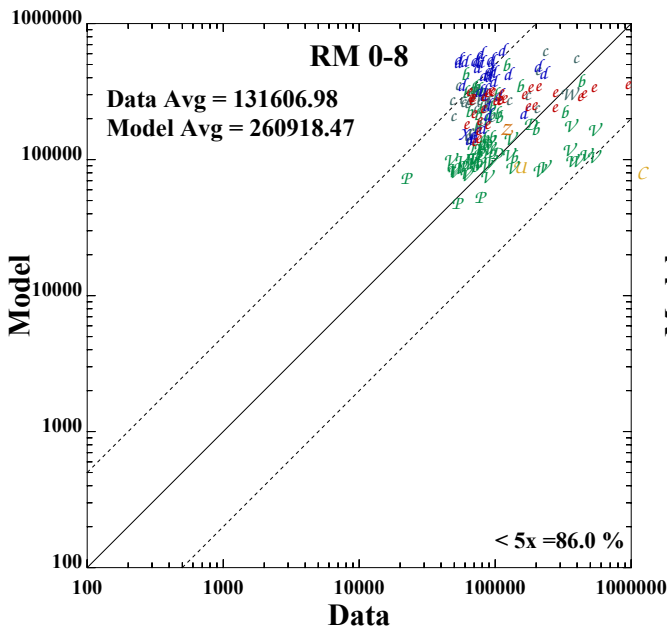
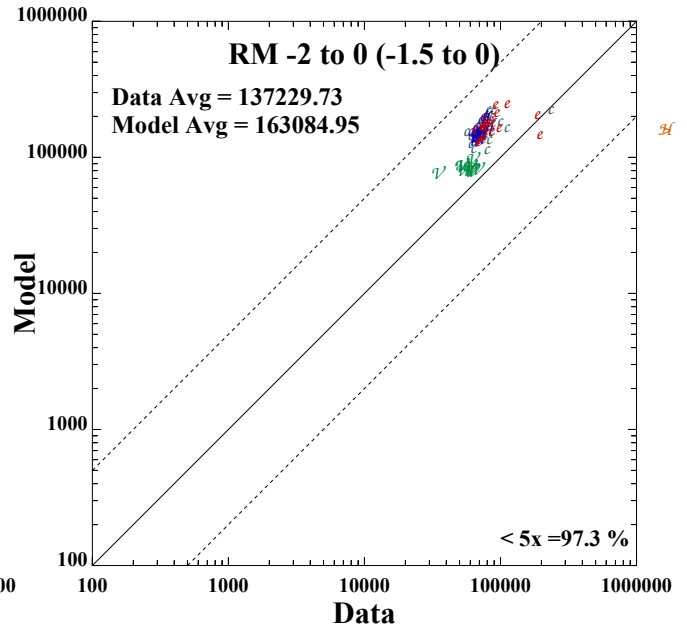
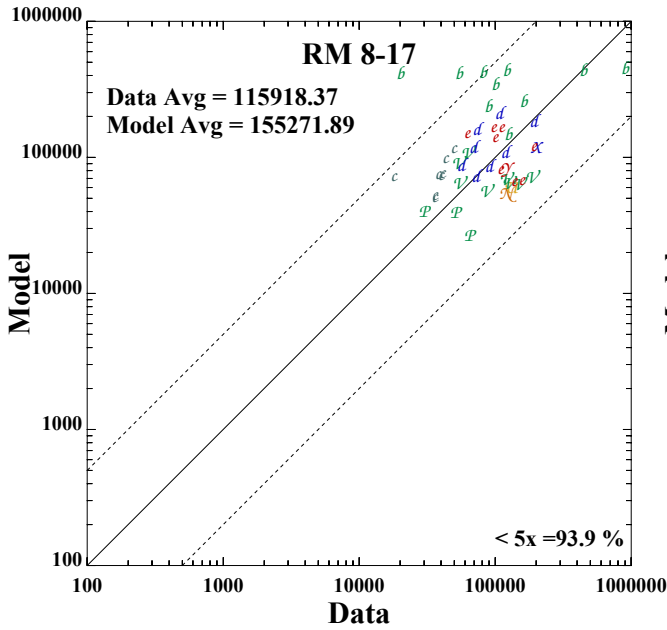
- A* 1993-1997 USACE - DMDAT
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- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers 4,4-DDT (pg/L) (PEST1)

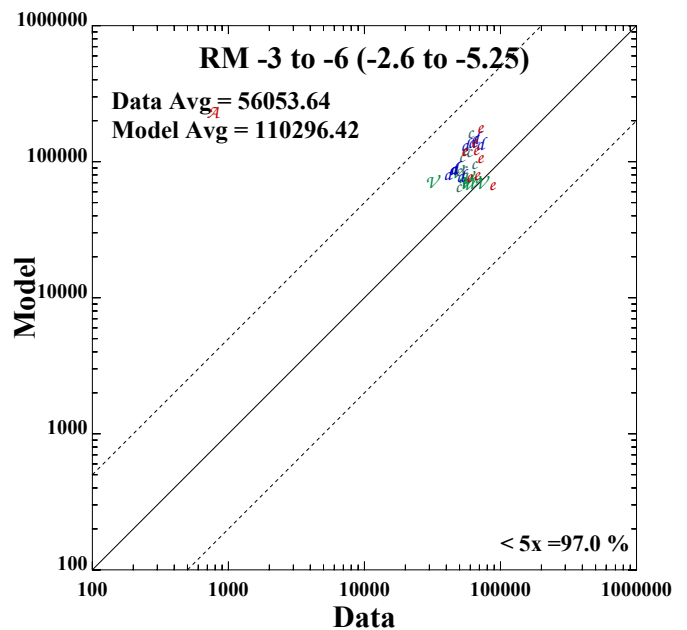


- A* 1993-1997 USACE - DMDAT
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- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

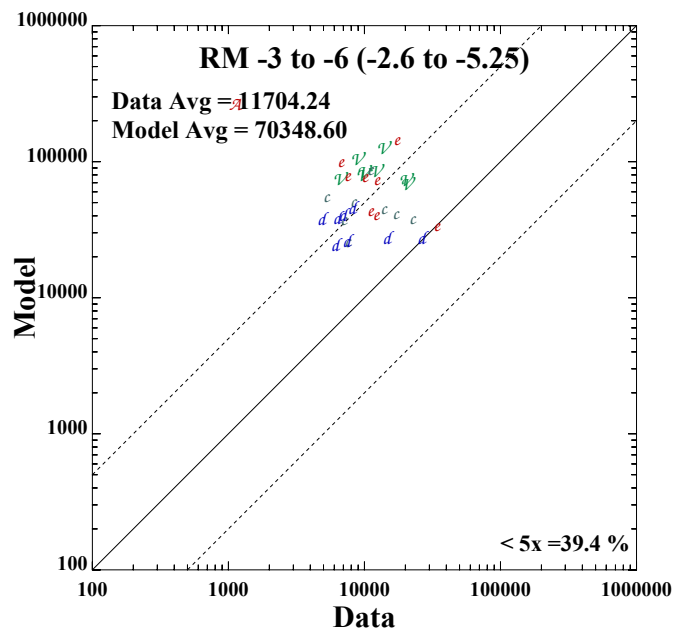
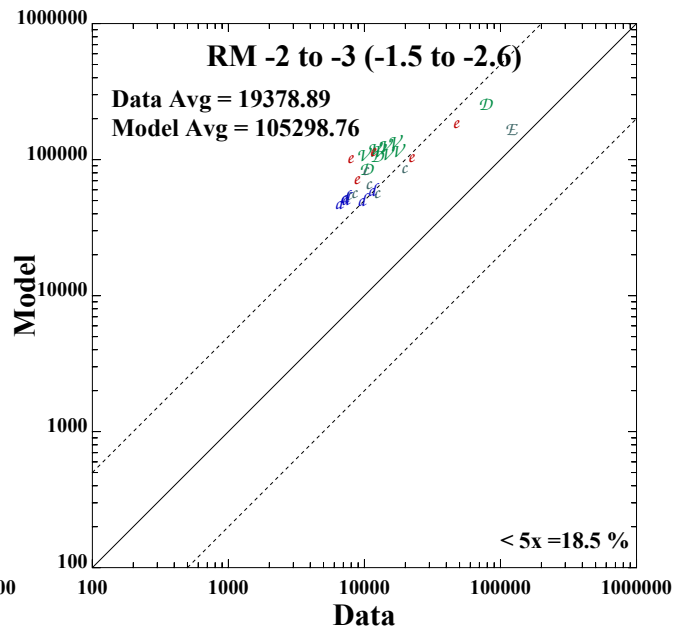
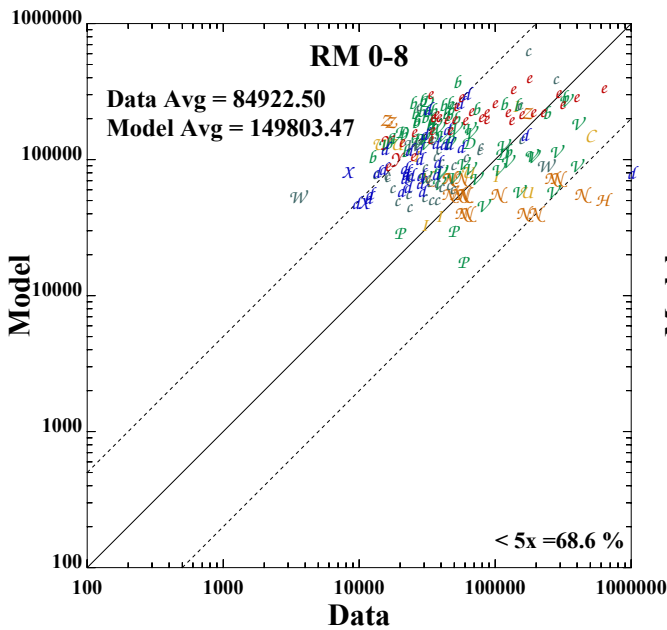
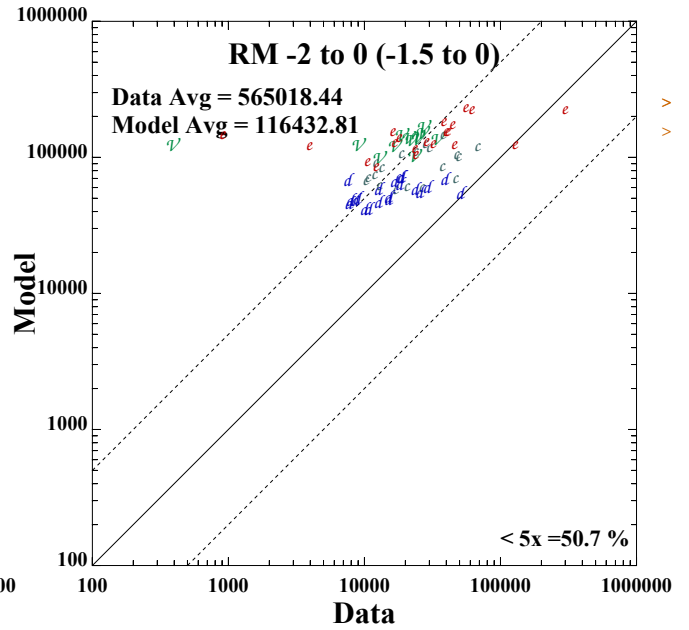
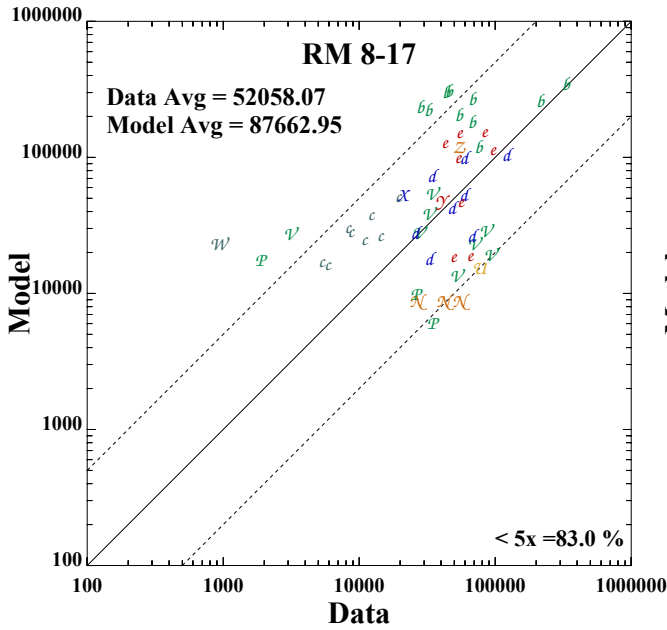
# All Layers Cadmium (pg/L) (METALS)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
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- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

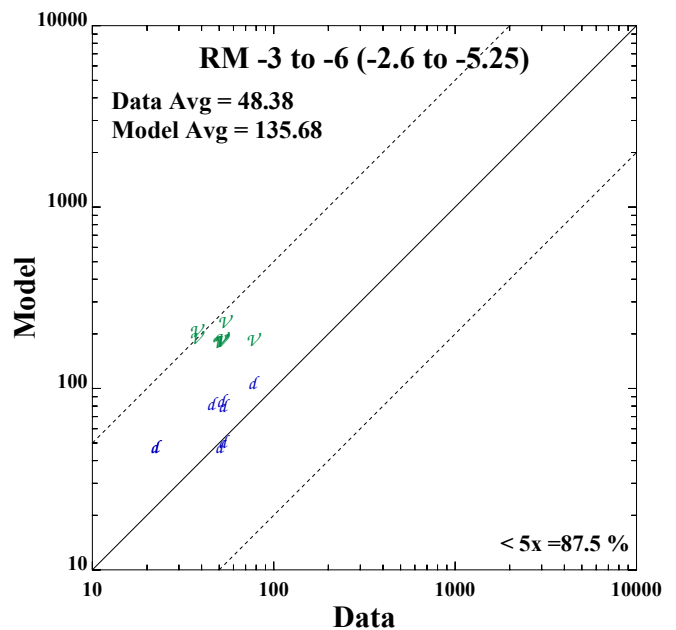
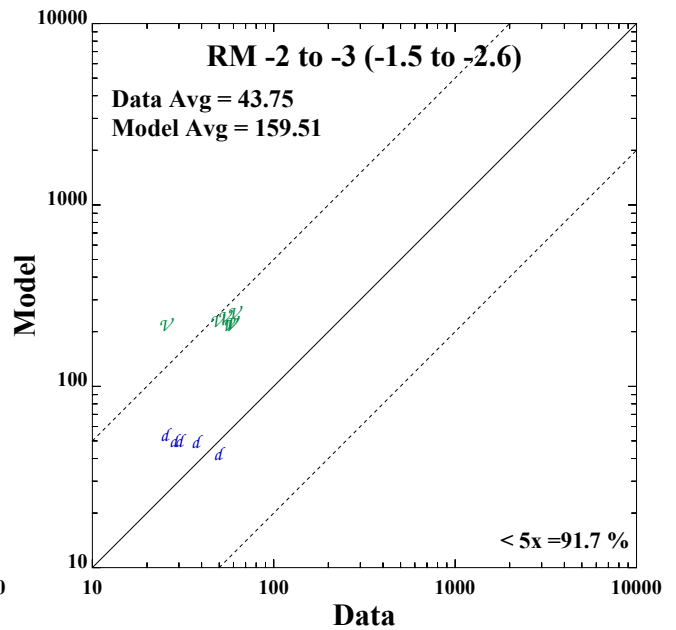
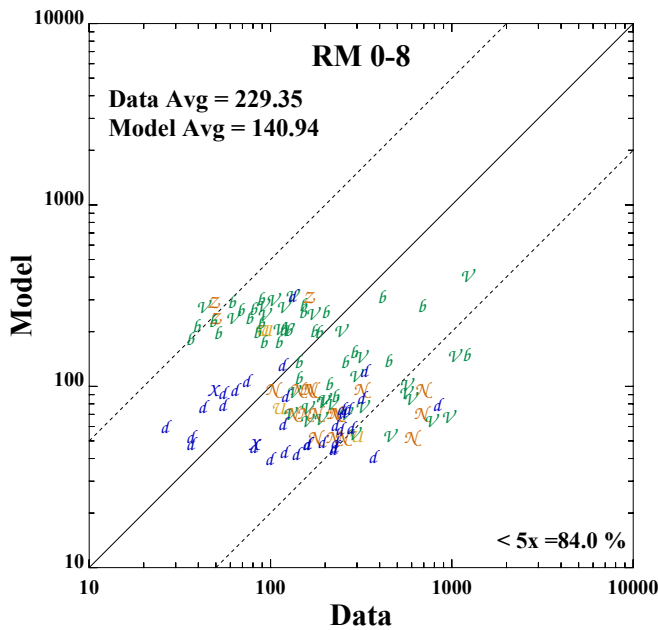
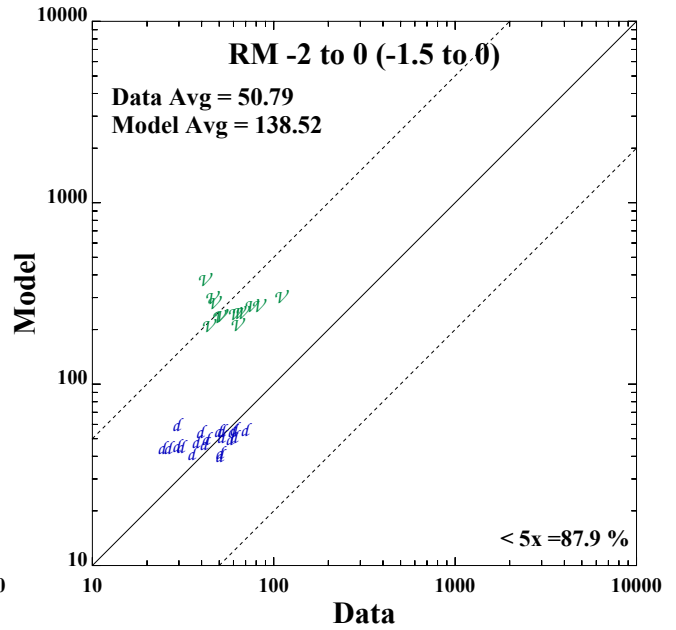
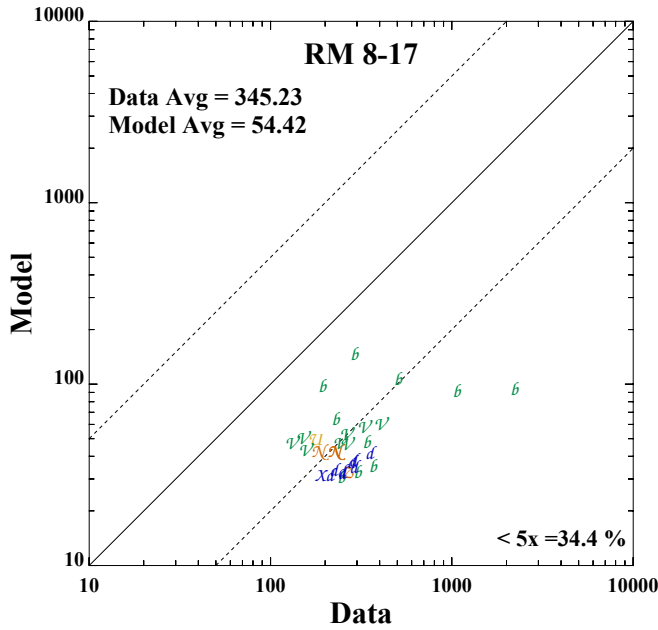


# All Layers Mercury (pg/L) (METALS)



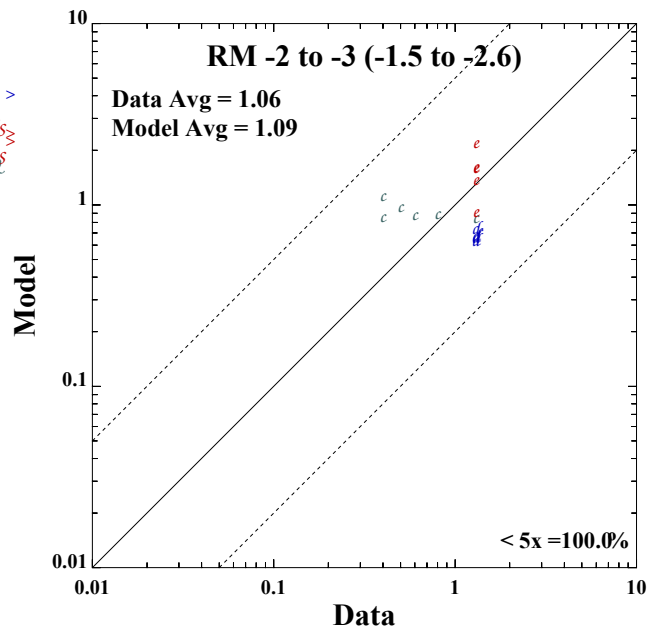
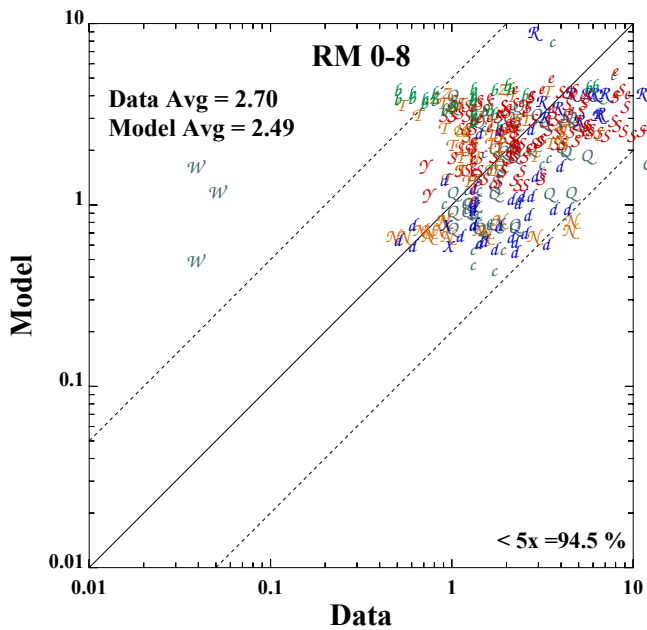
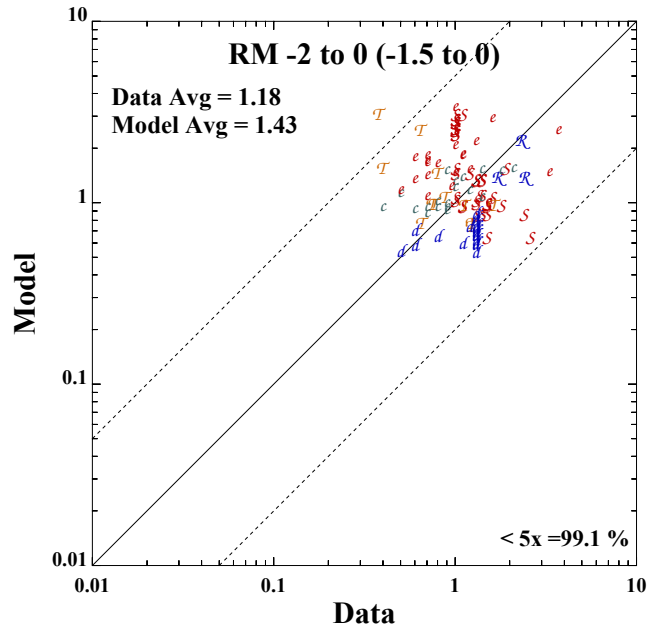
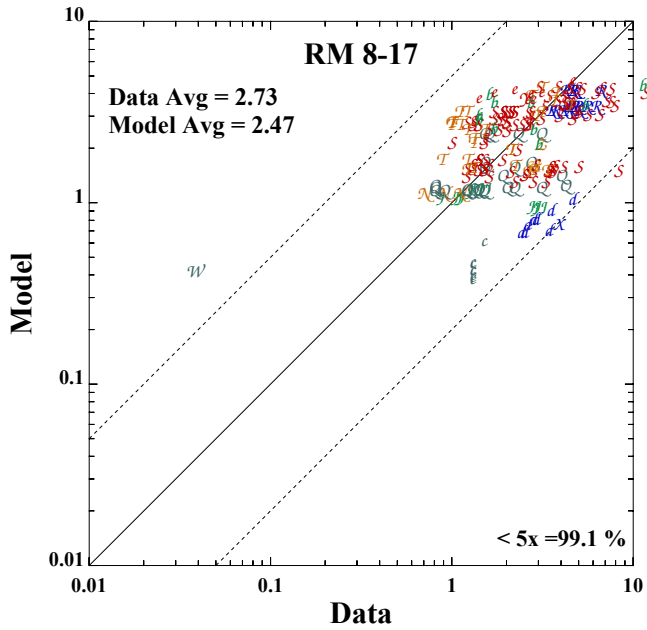
- A* 1993-1997 USACE - DMDAT
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- a* 2012 CDM Smith CWCM Sampling Round - 6
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- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

# All Layers Methyl mercury (pg/L) (METALS)

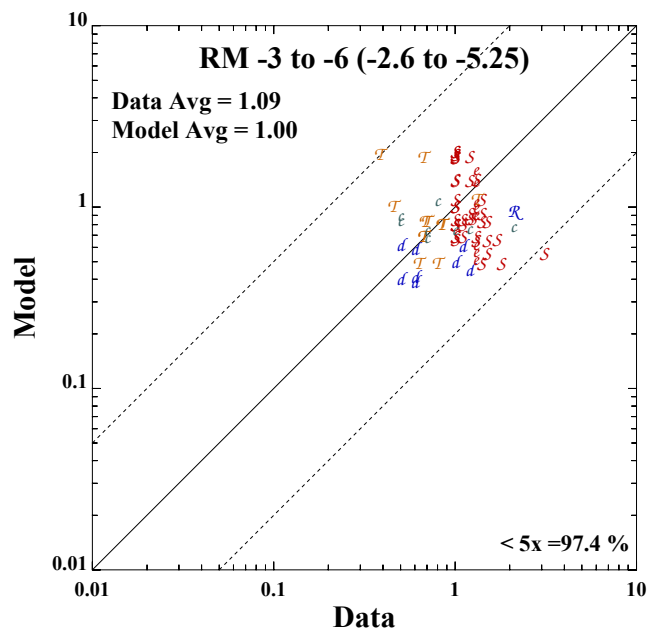


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
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- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

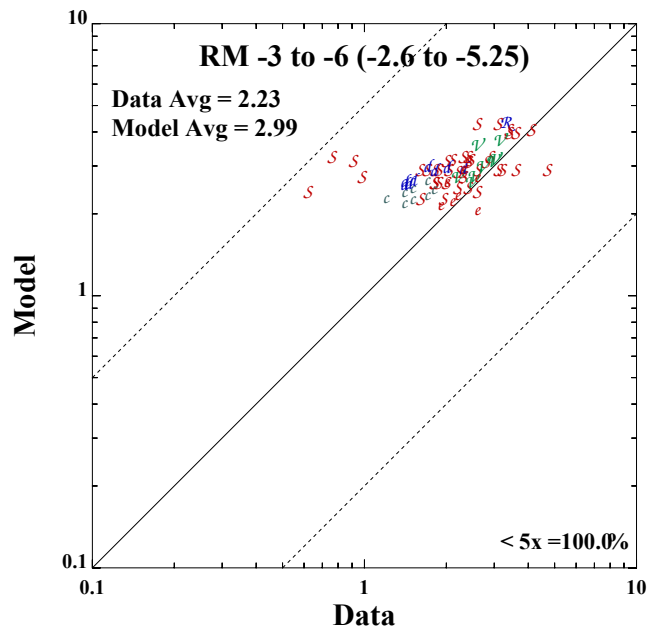
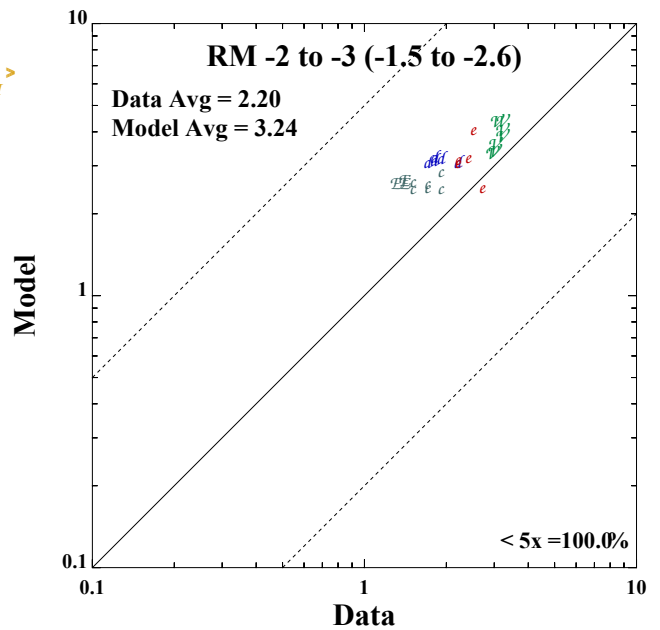
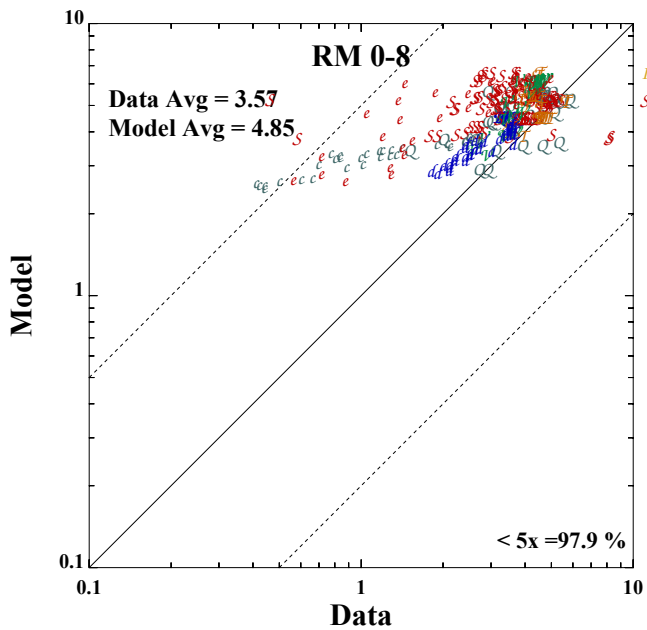
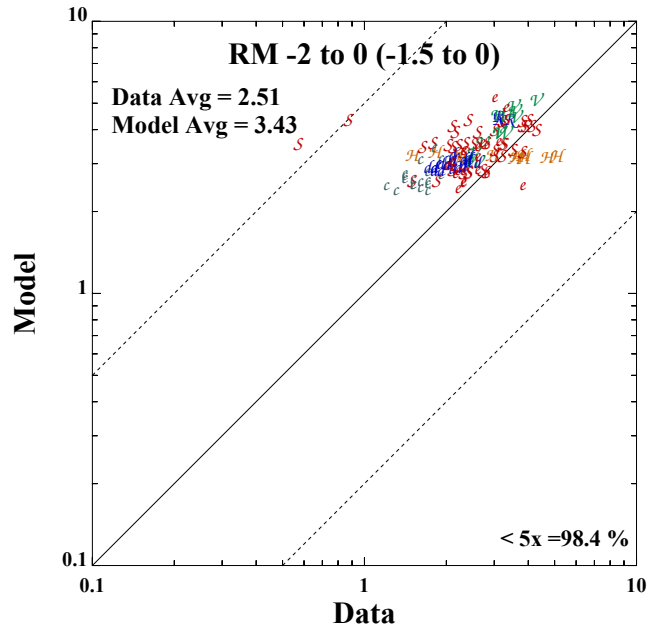
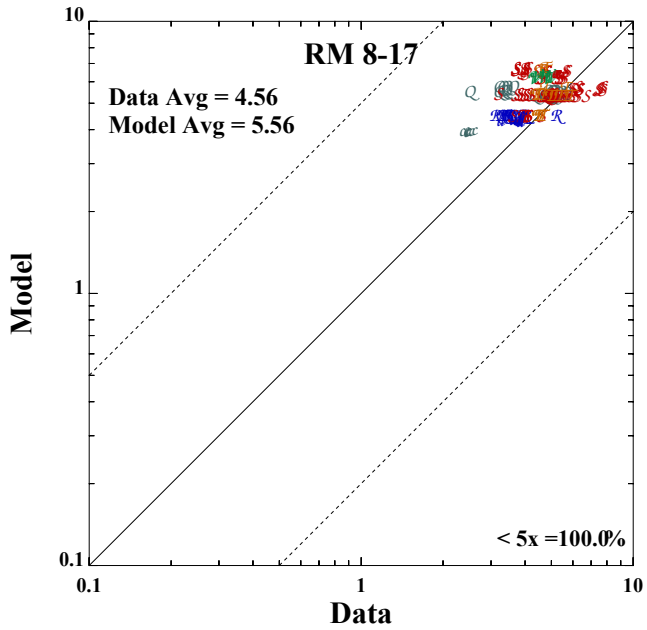
# All Layers POC (mg/L) (METALS)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4



# All Layers DOC (mg/L) (METALS)

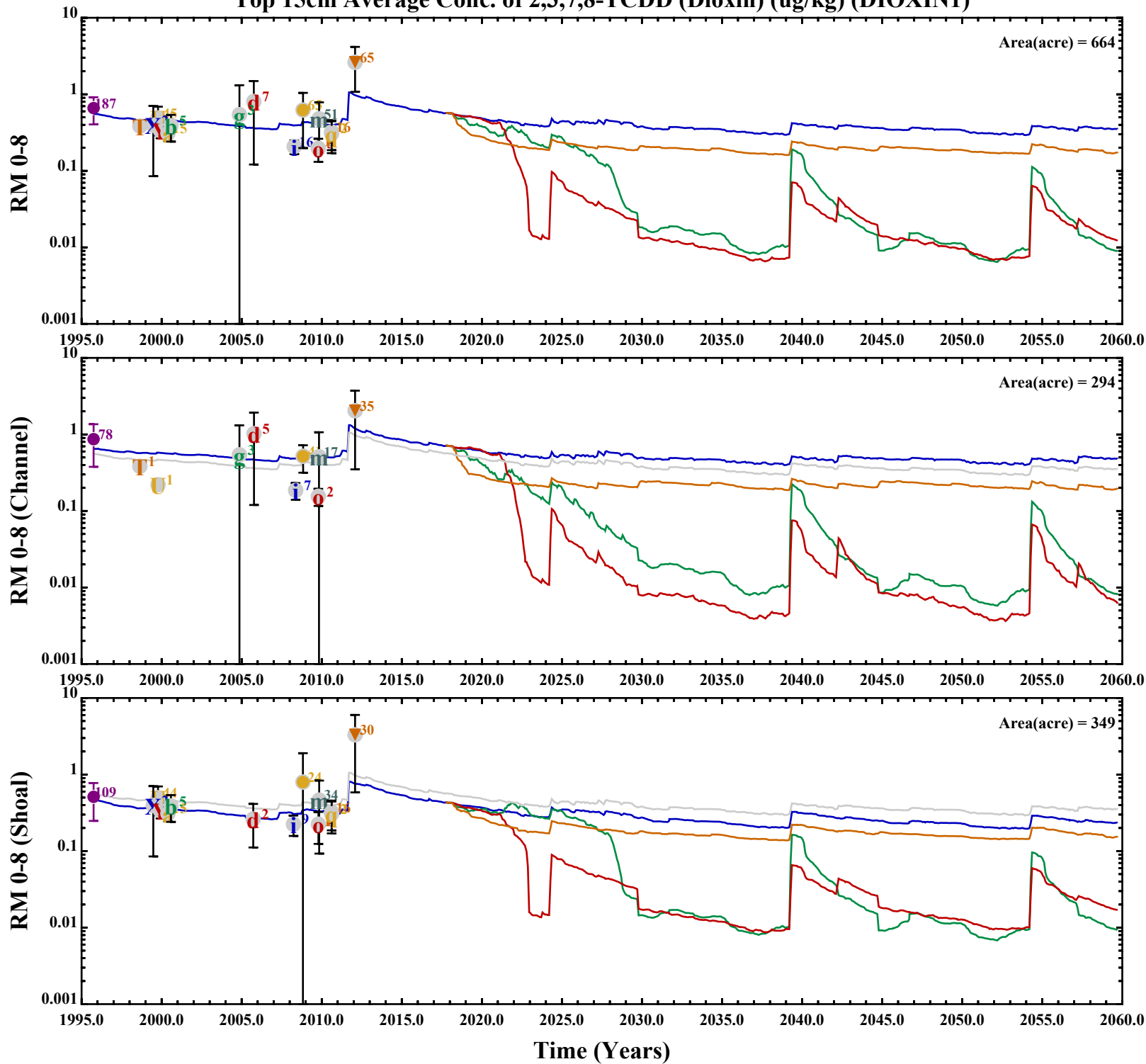


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

**Attachment E-1**  
**LPR Surface Sediment Reach Average Time**  
**Series Projections**

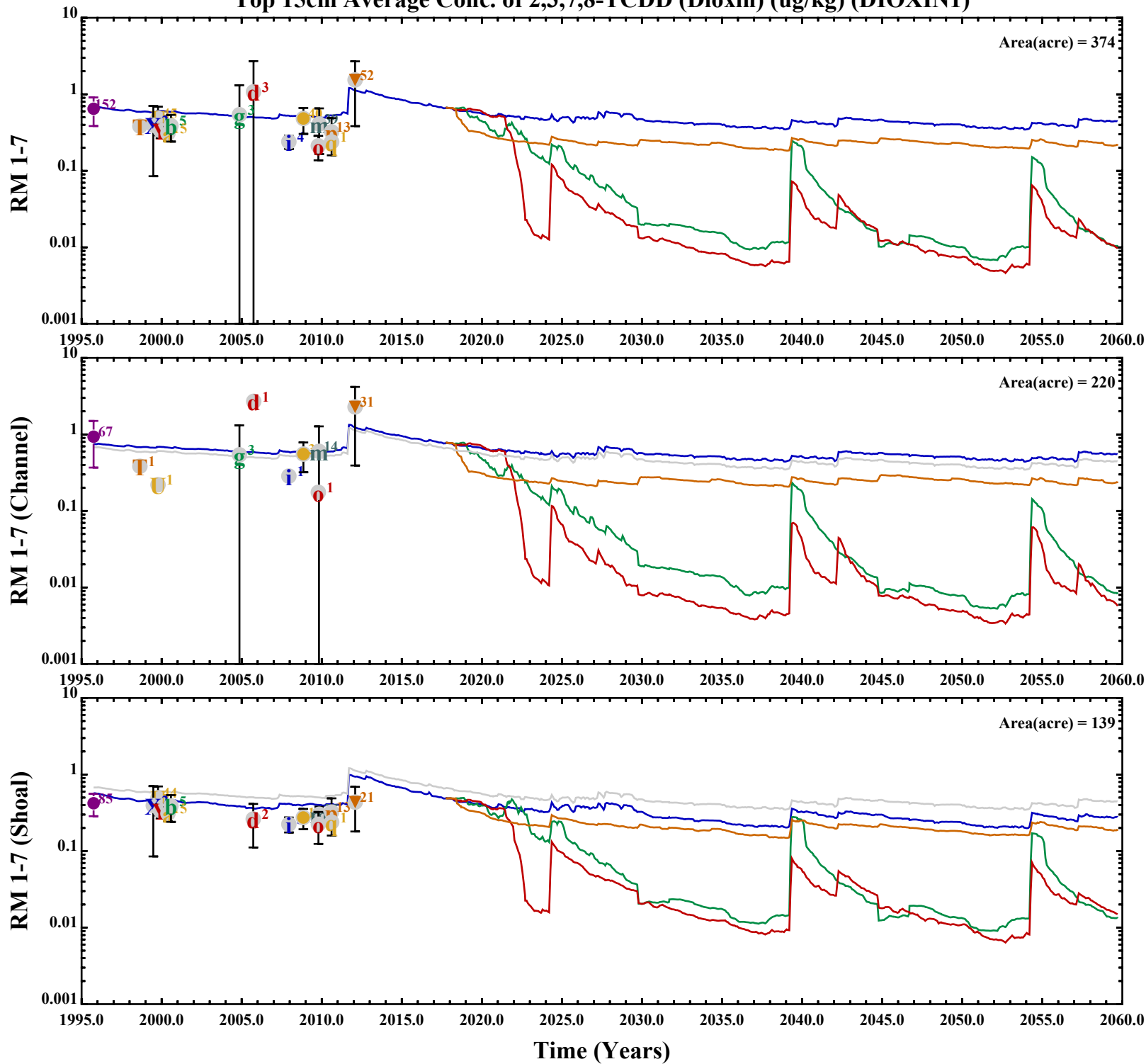


# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



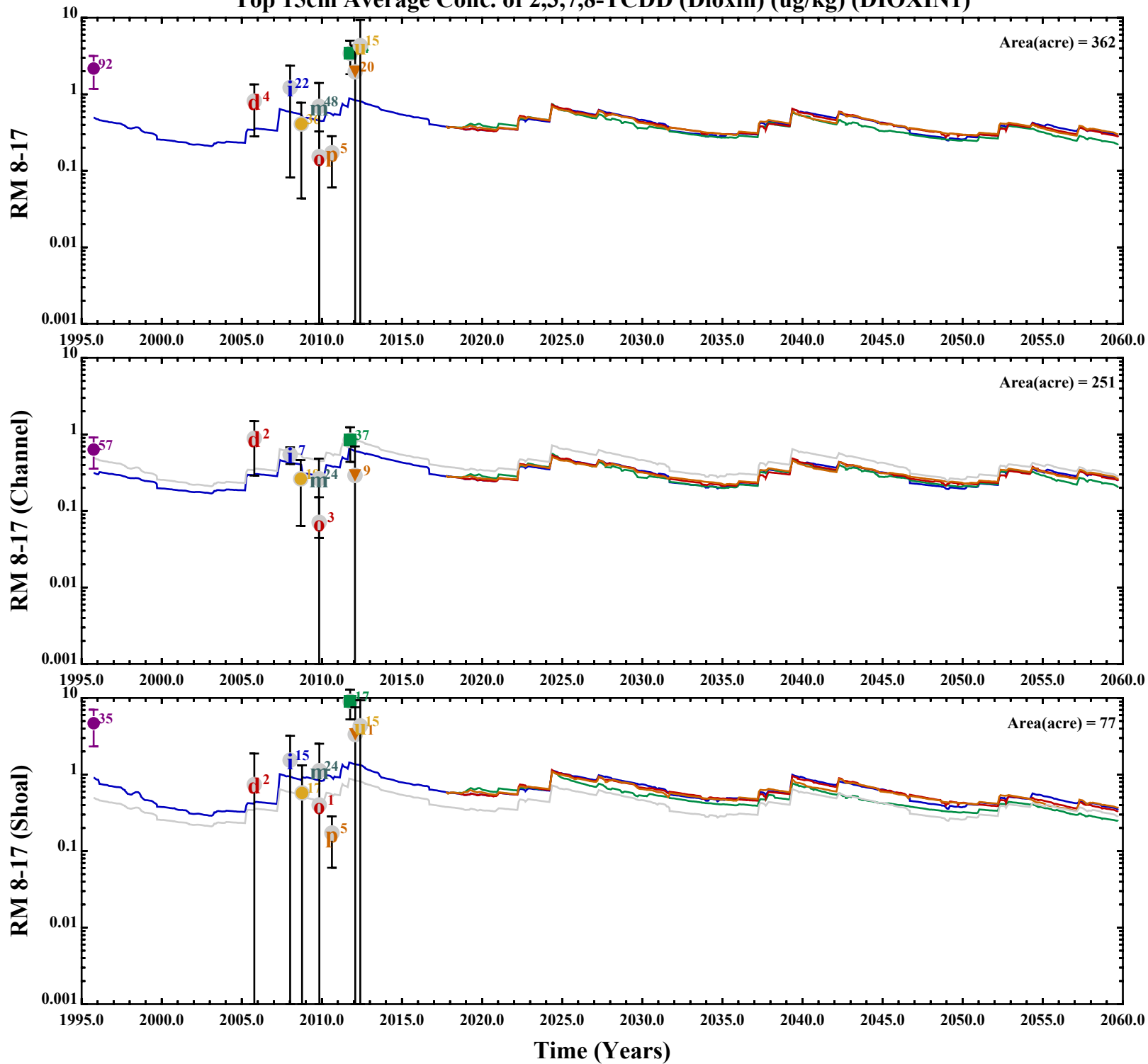
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



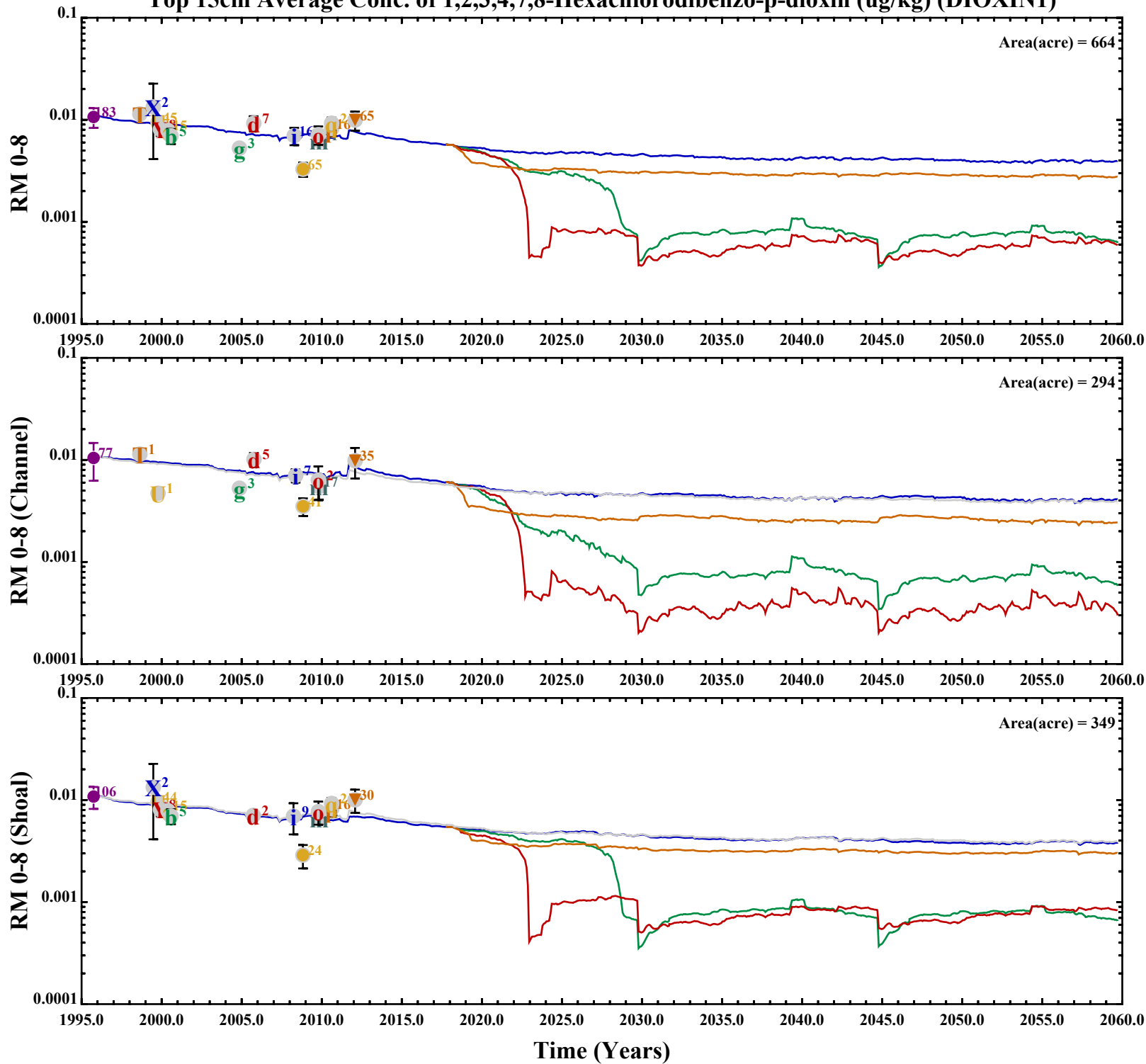
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



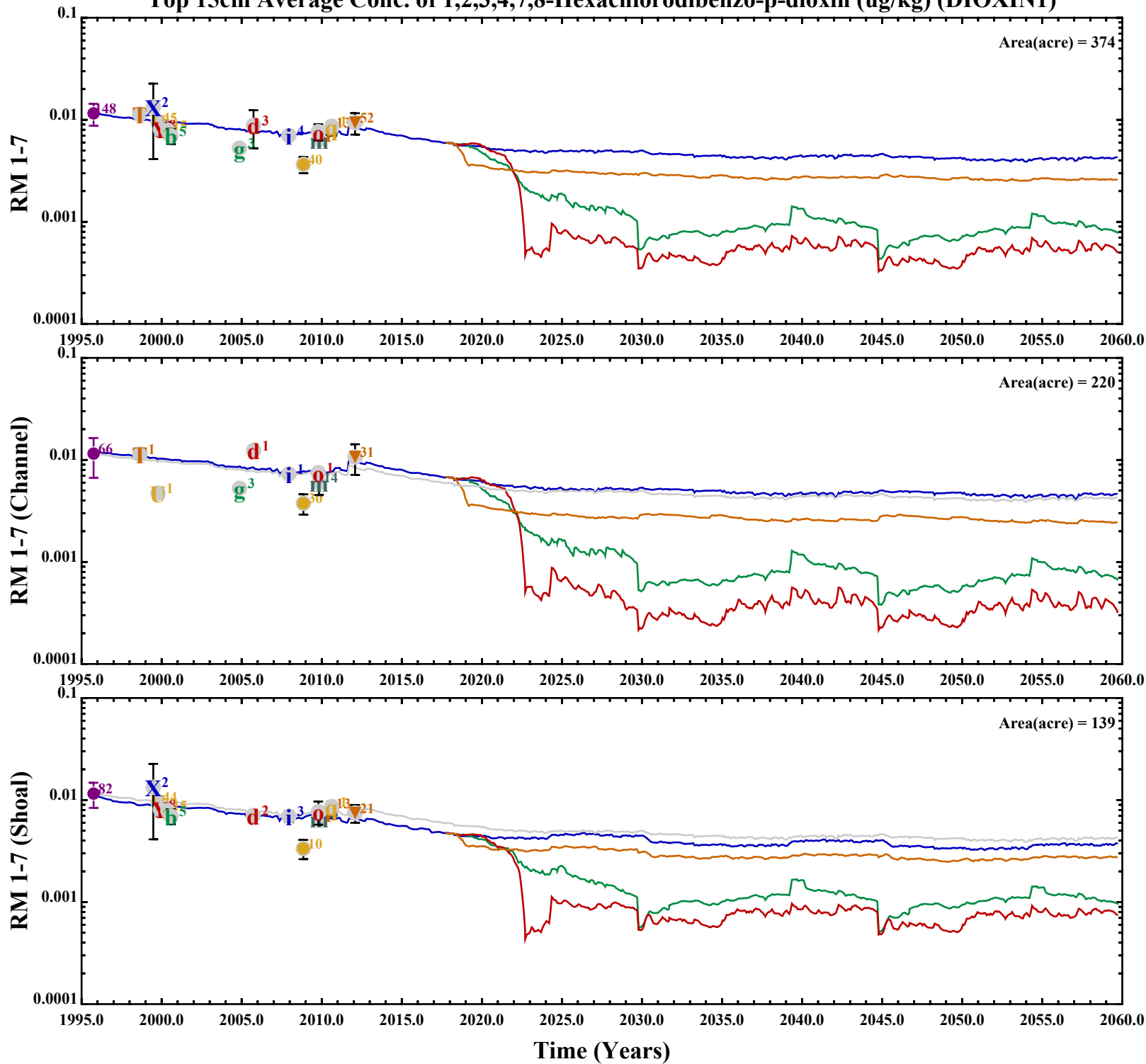
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  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
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  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
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  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
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  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
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  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



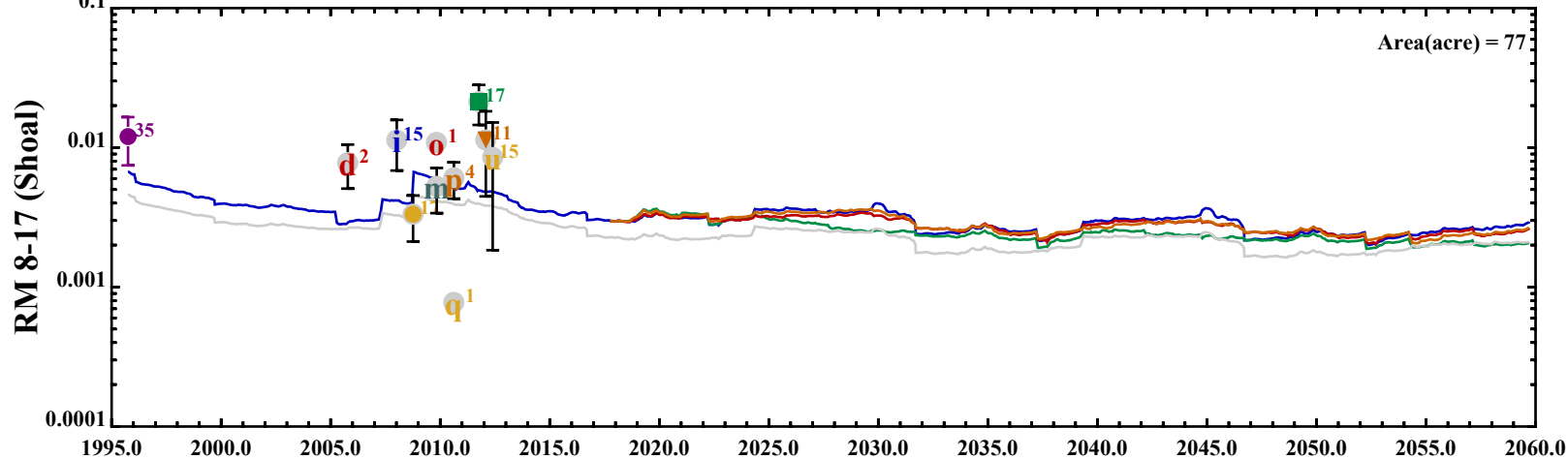
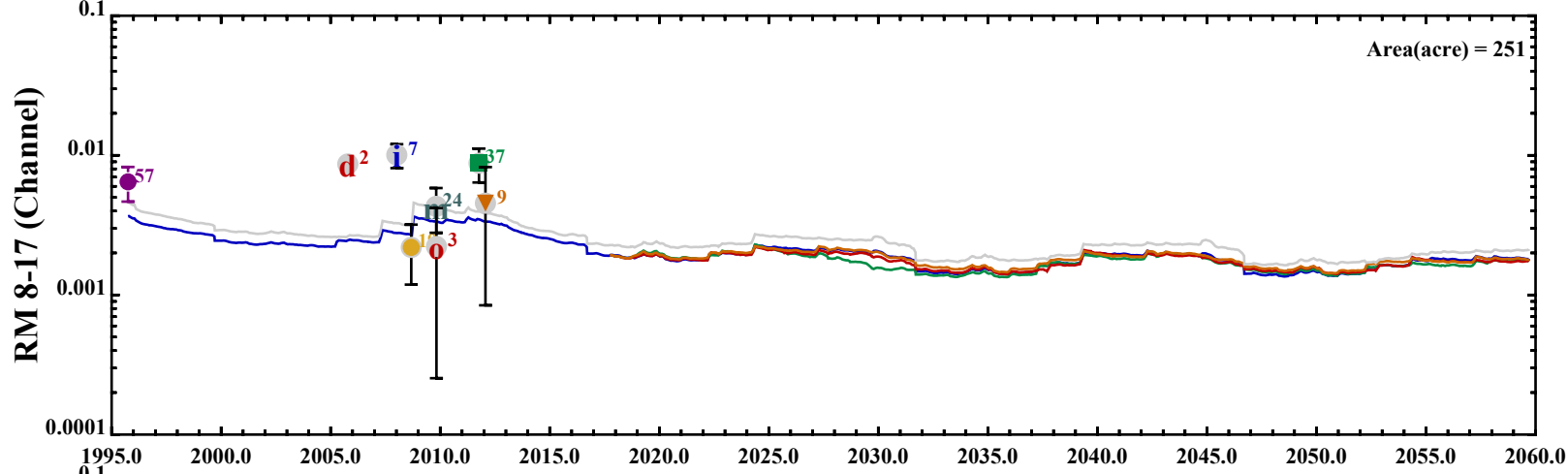
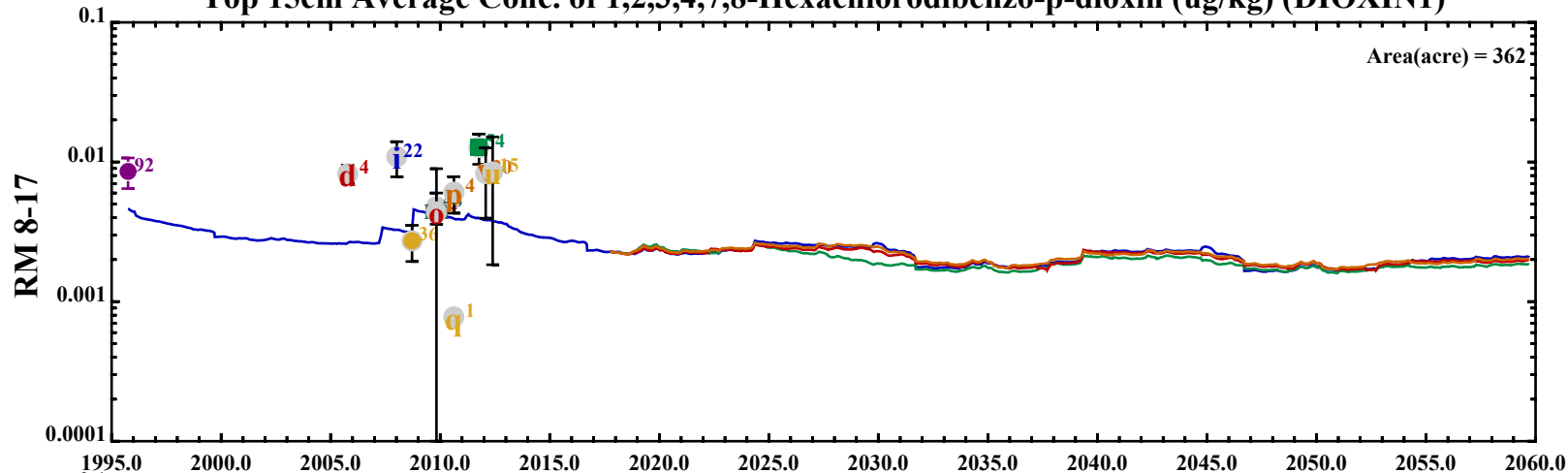
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

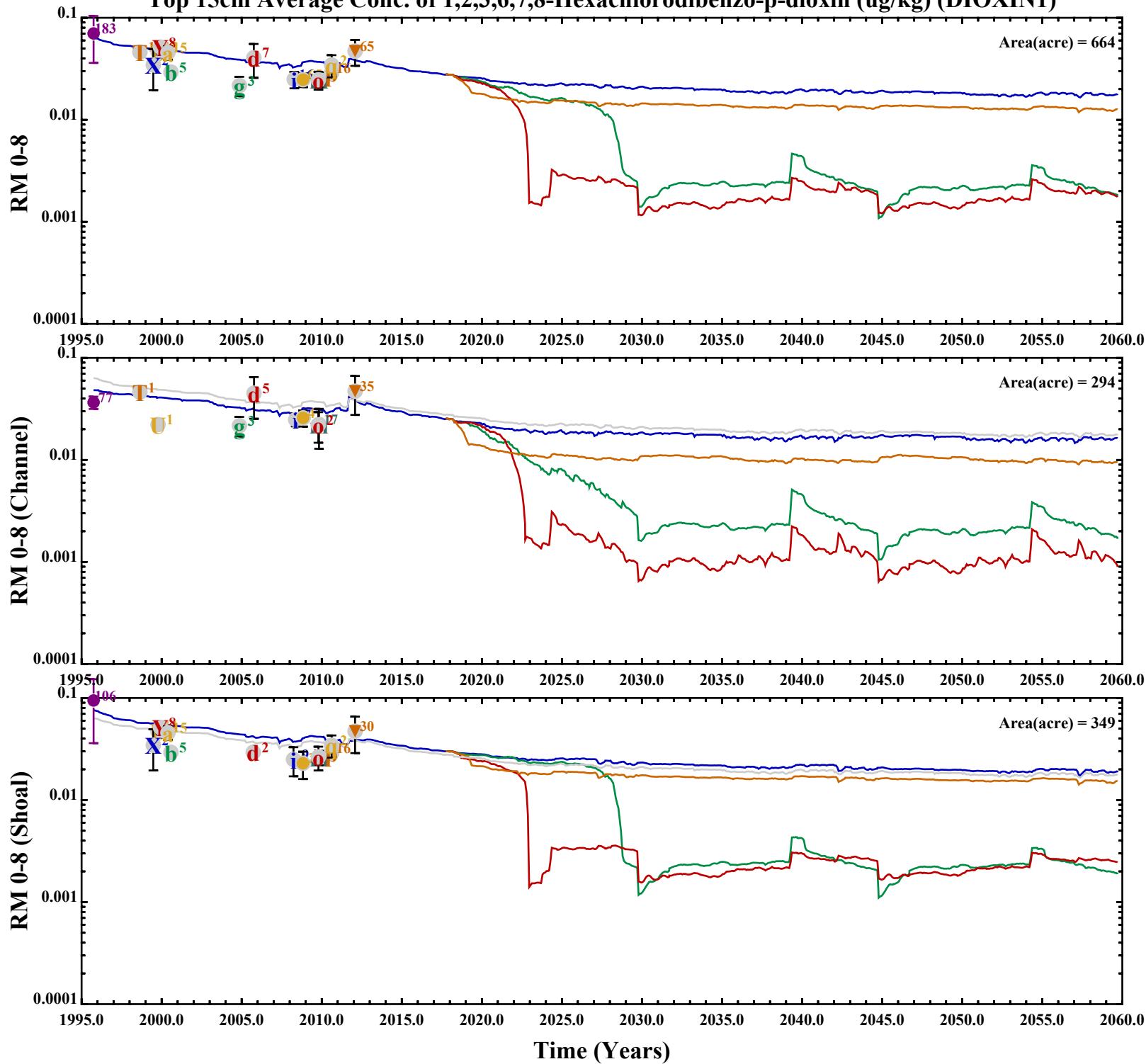
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



Time (Years)

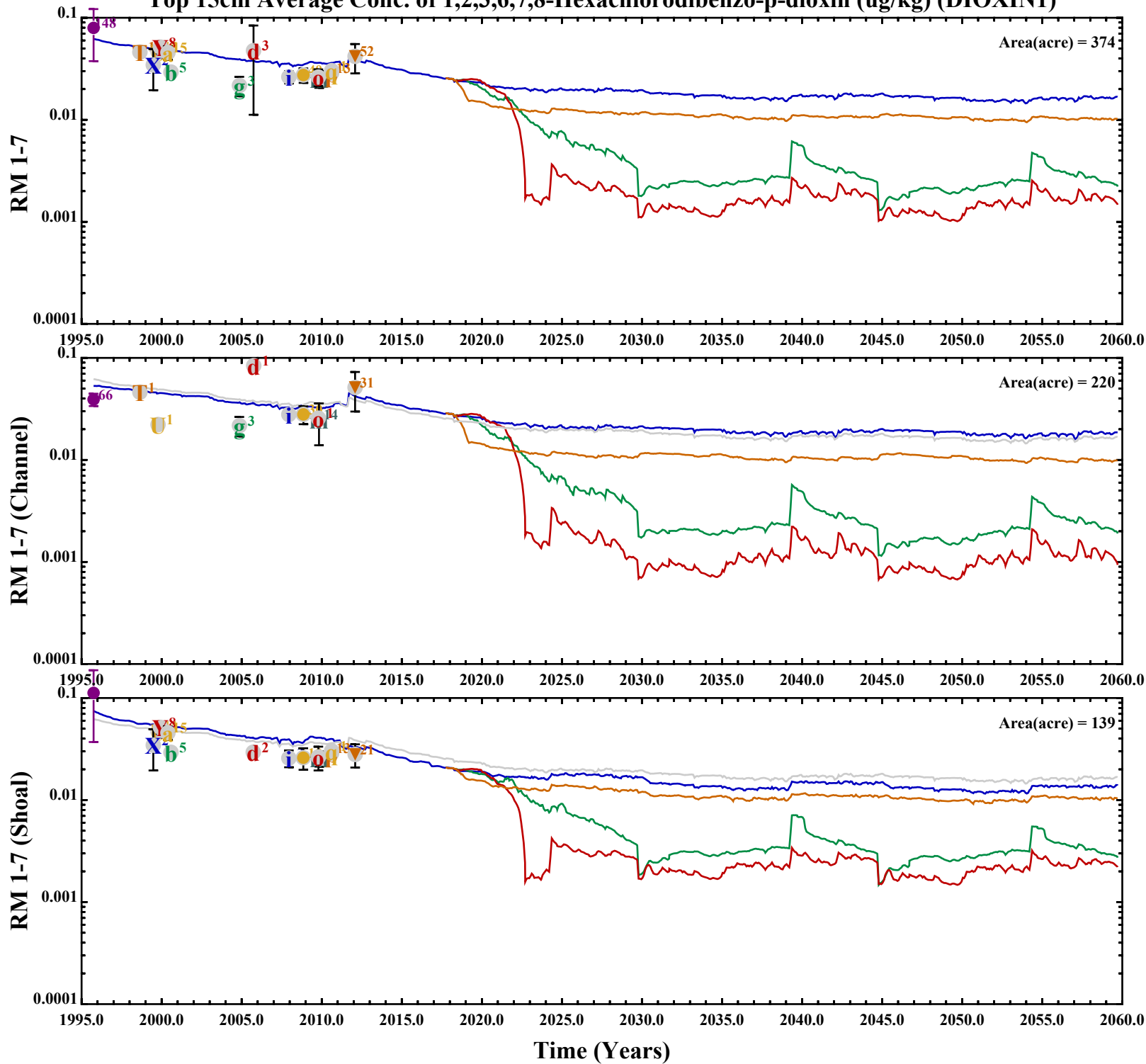
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
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  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
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  - q 2010 USEPA-CDM Benthic Oversight
  - r 2011 CPG River Mile 10.9 Data
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
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  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
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  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - ■ 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
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  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

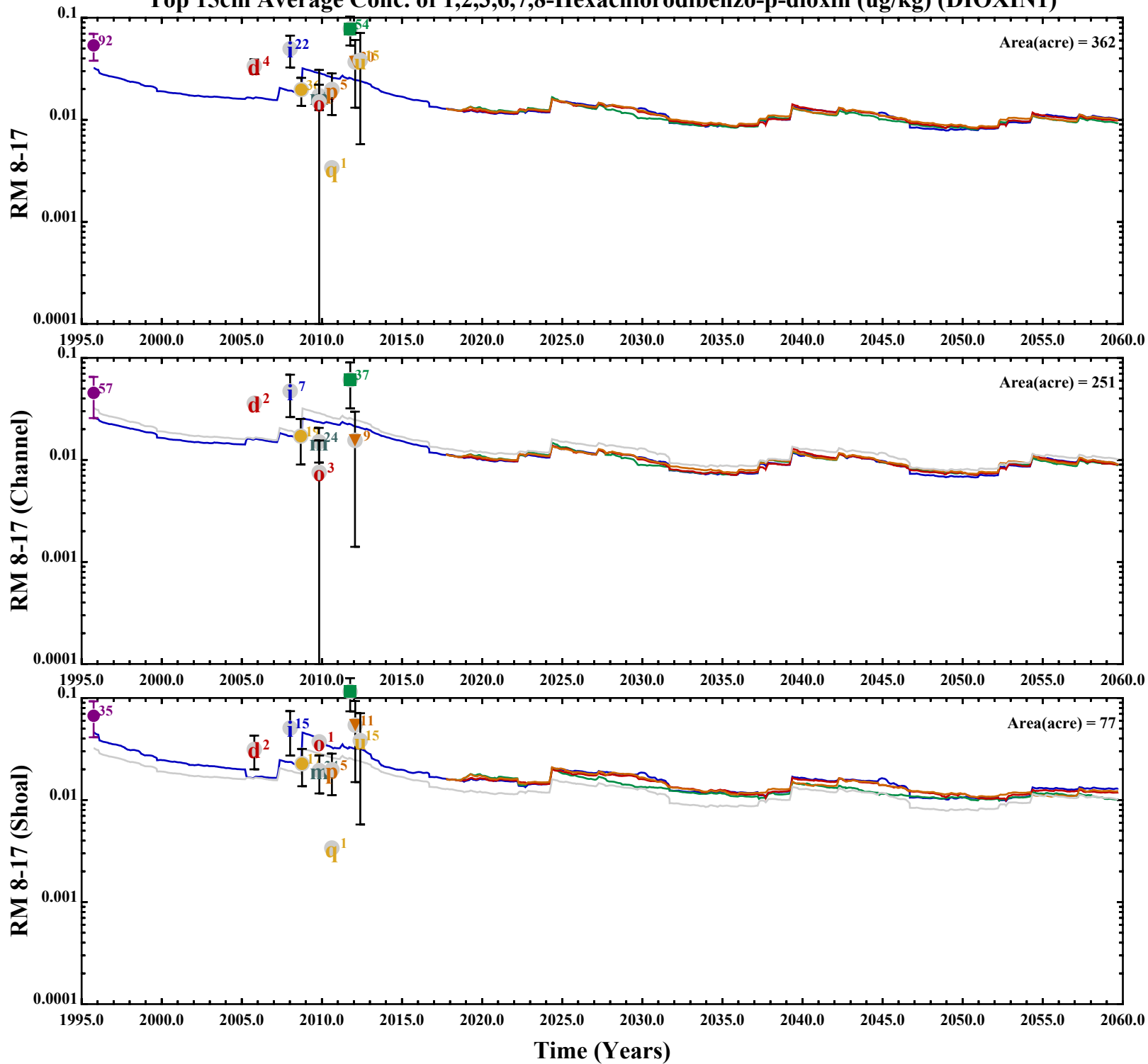
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
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  - 2006 HRSA RI Sampling Program
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  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
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  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

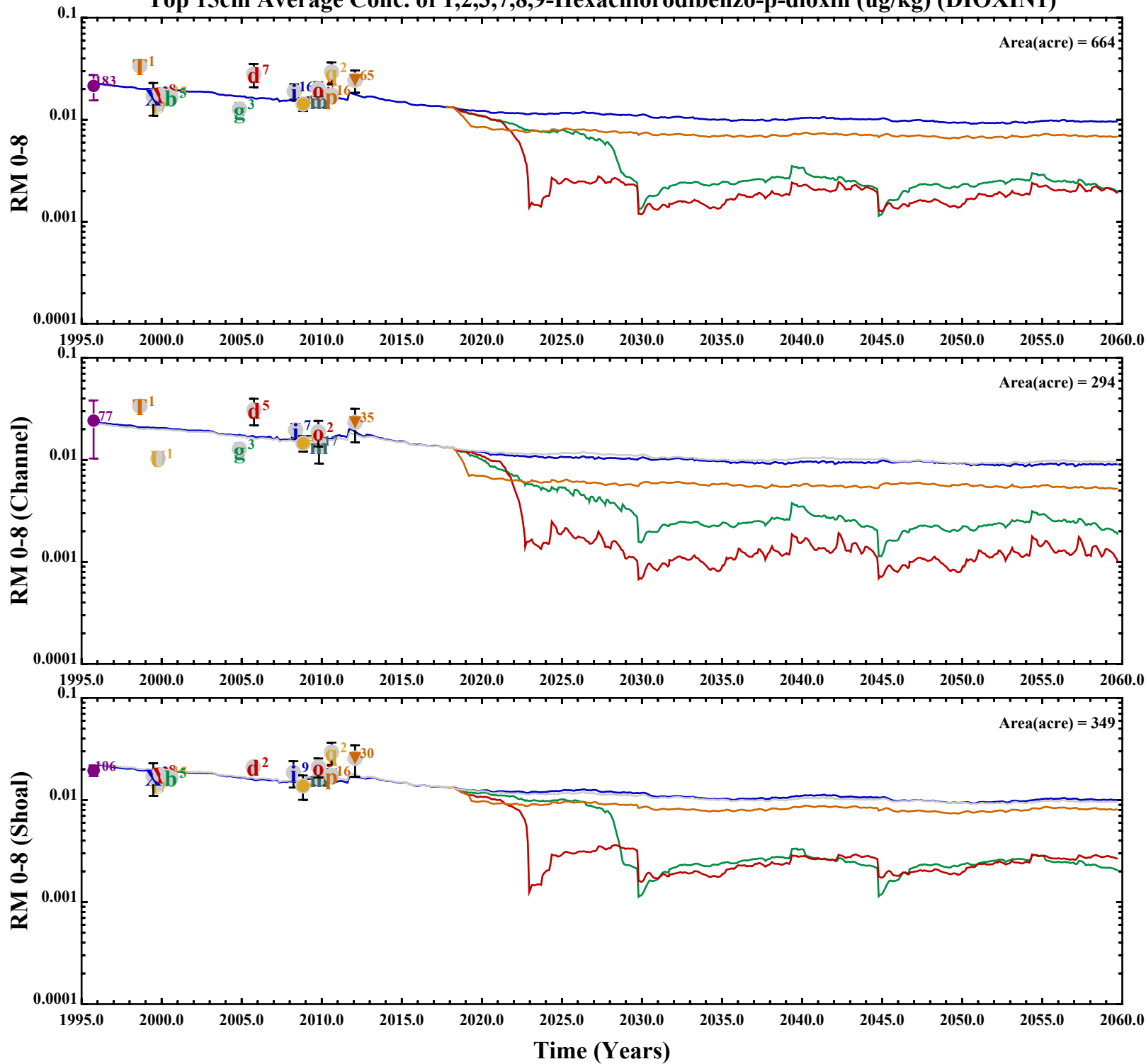


# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



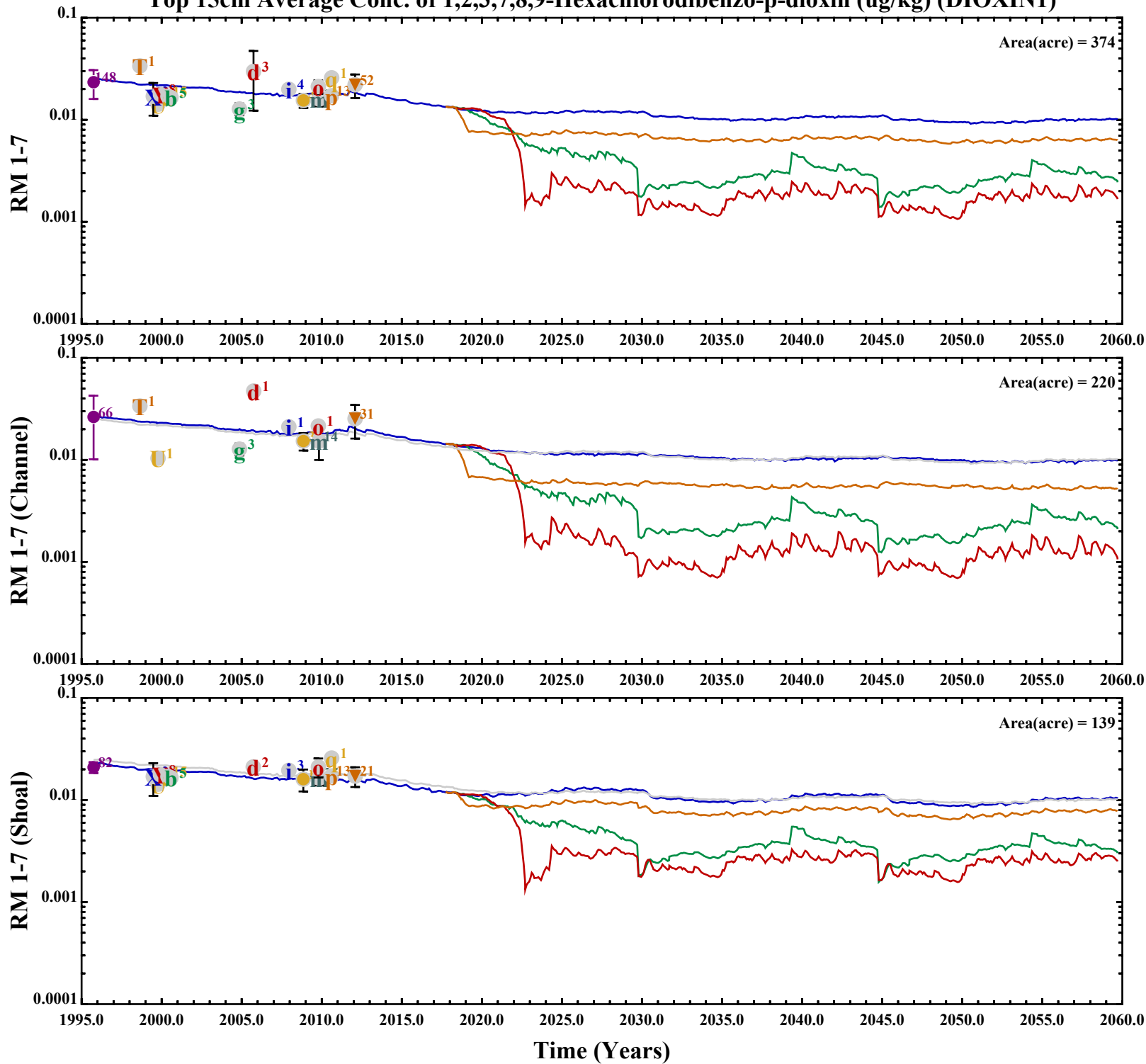
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  - 1992 Core Sediment Investigation
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  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



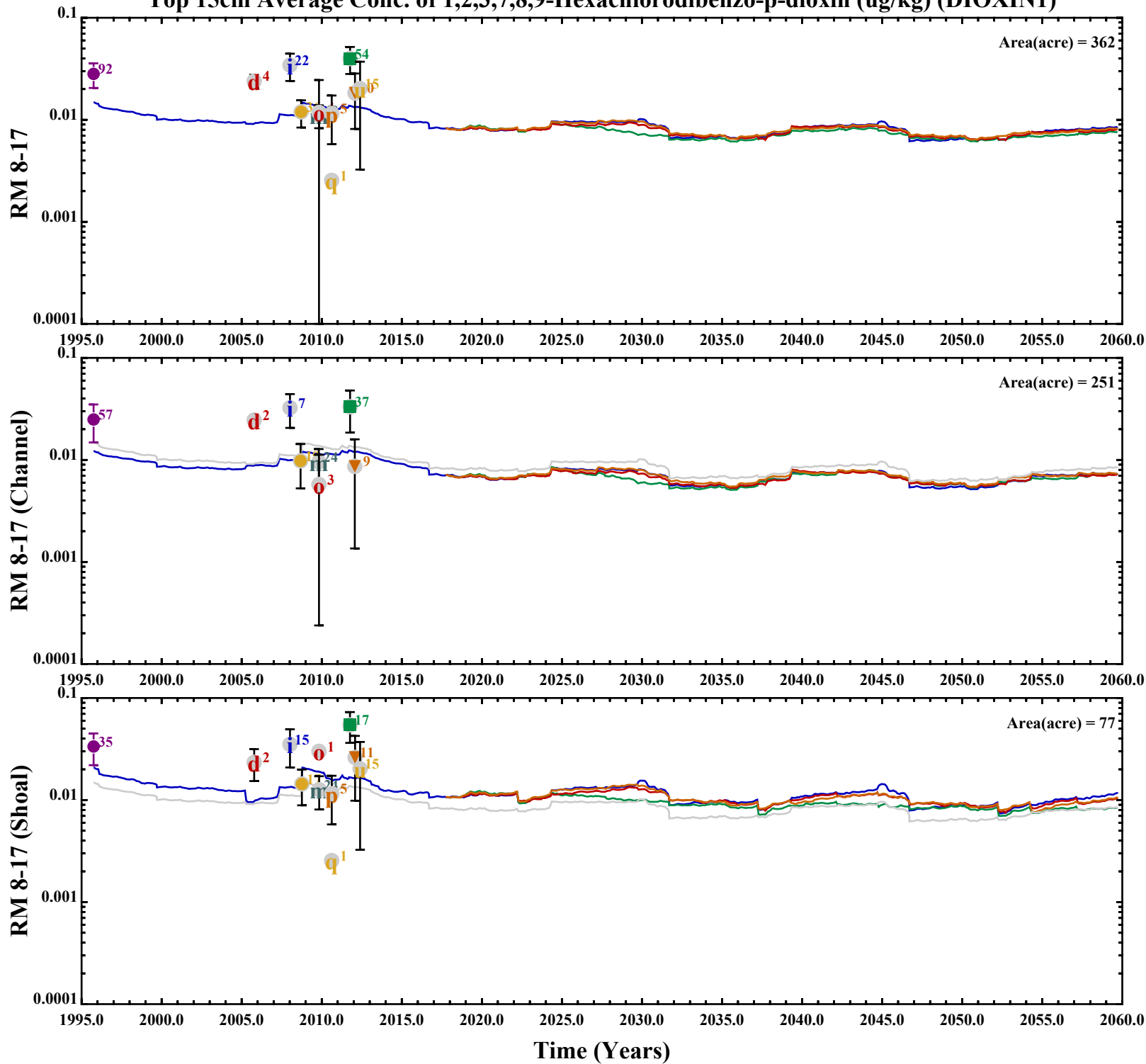
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - ■ 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



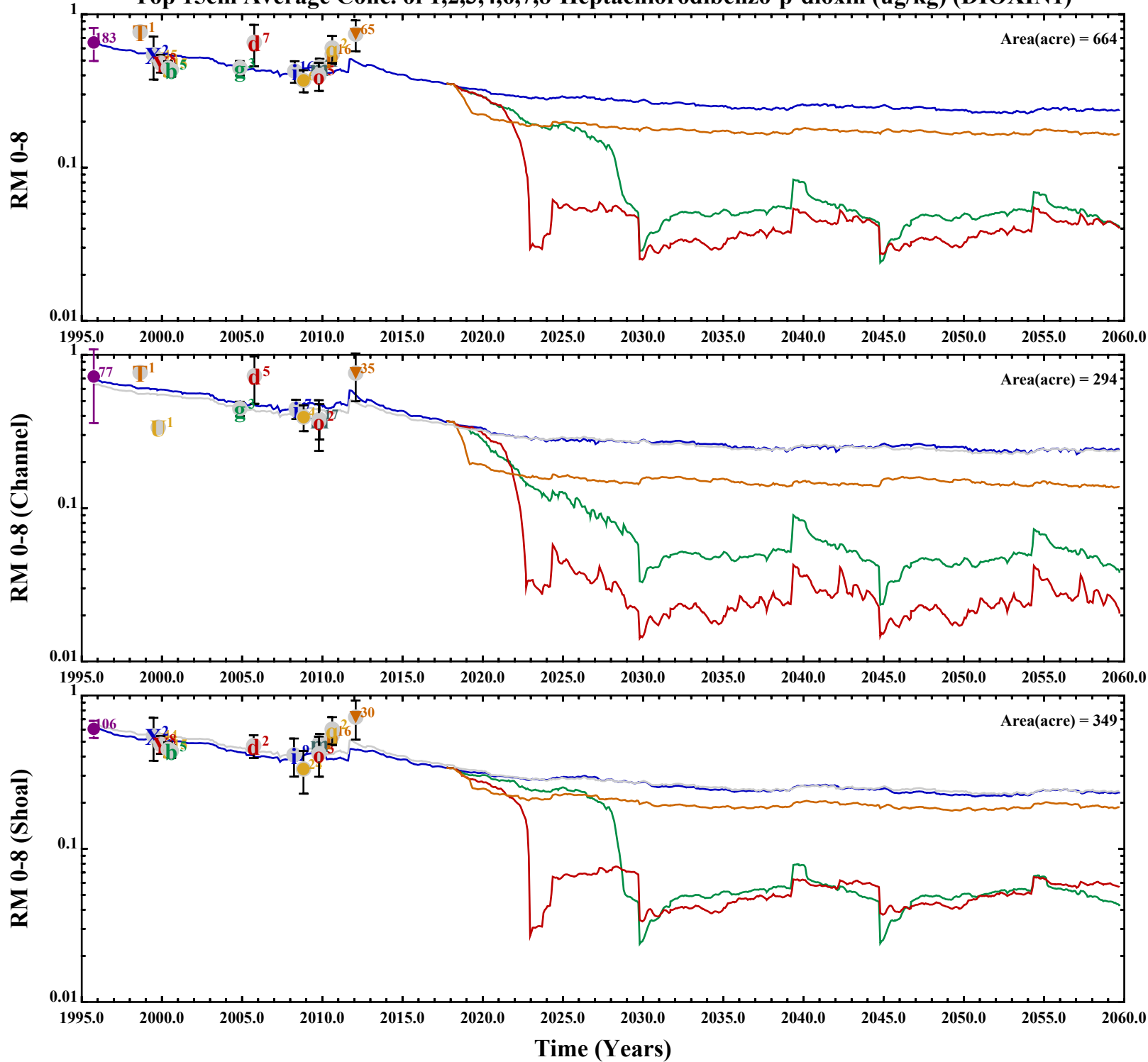
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



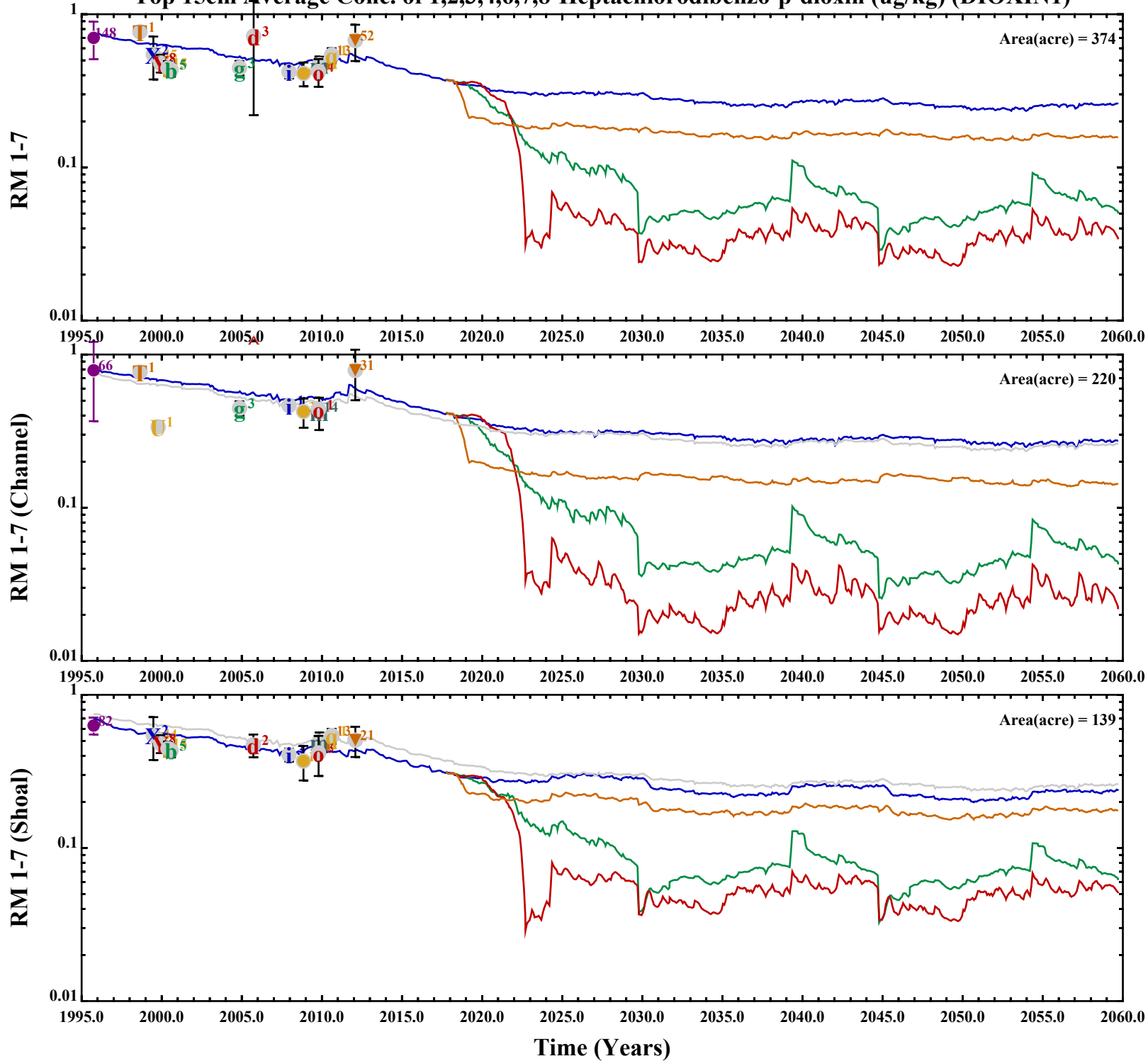
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



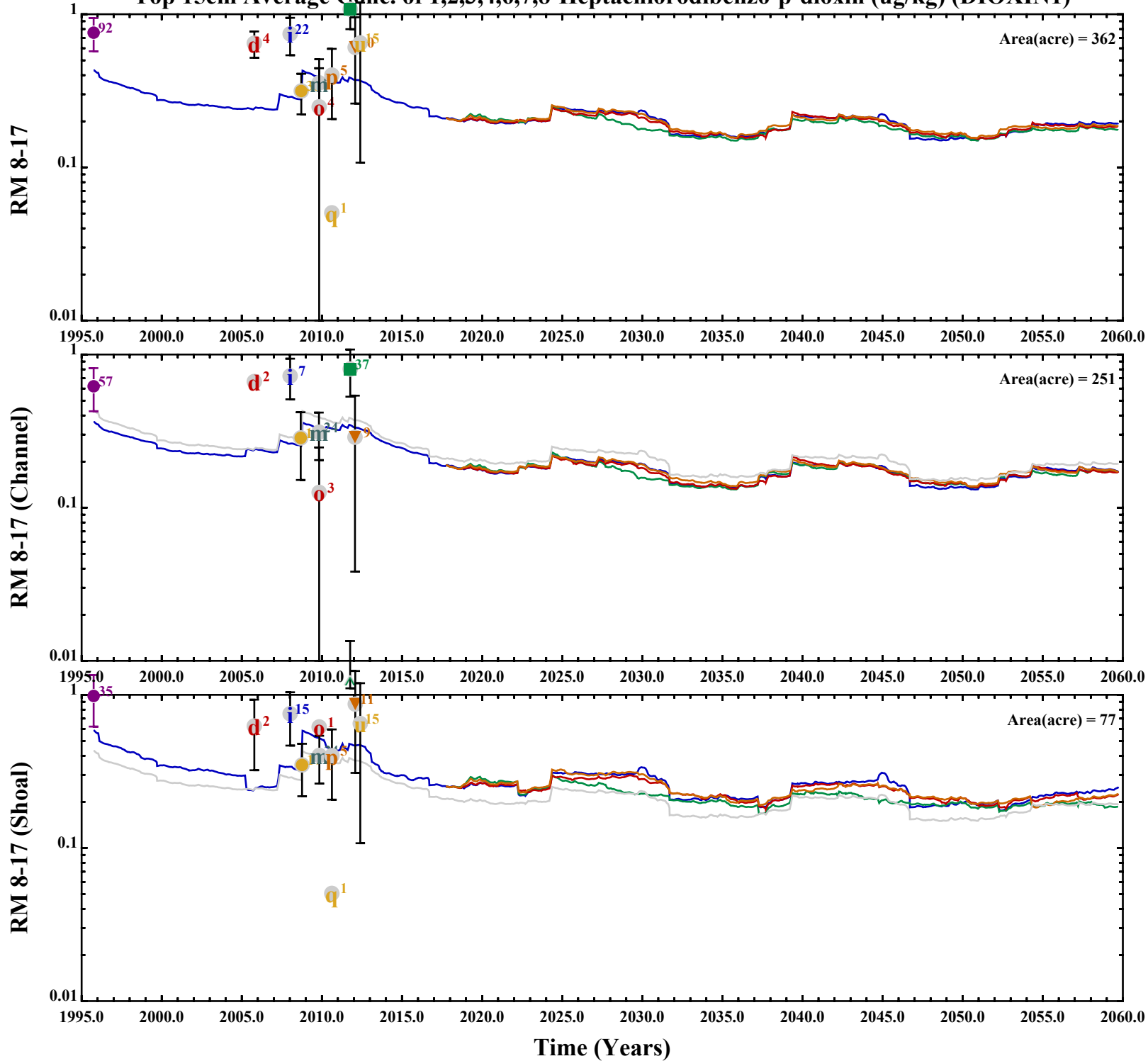
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



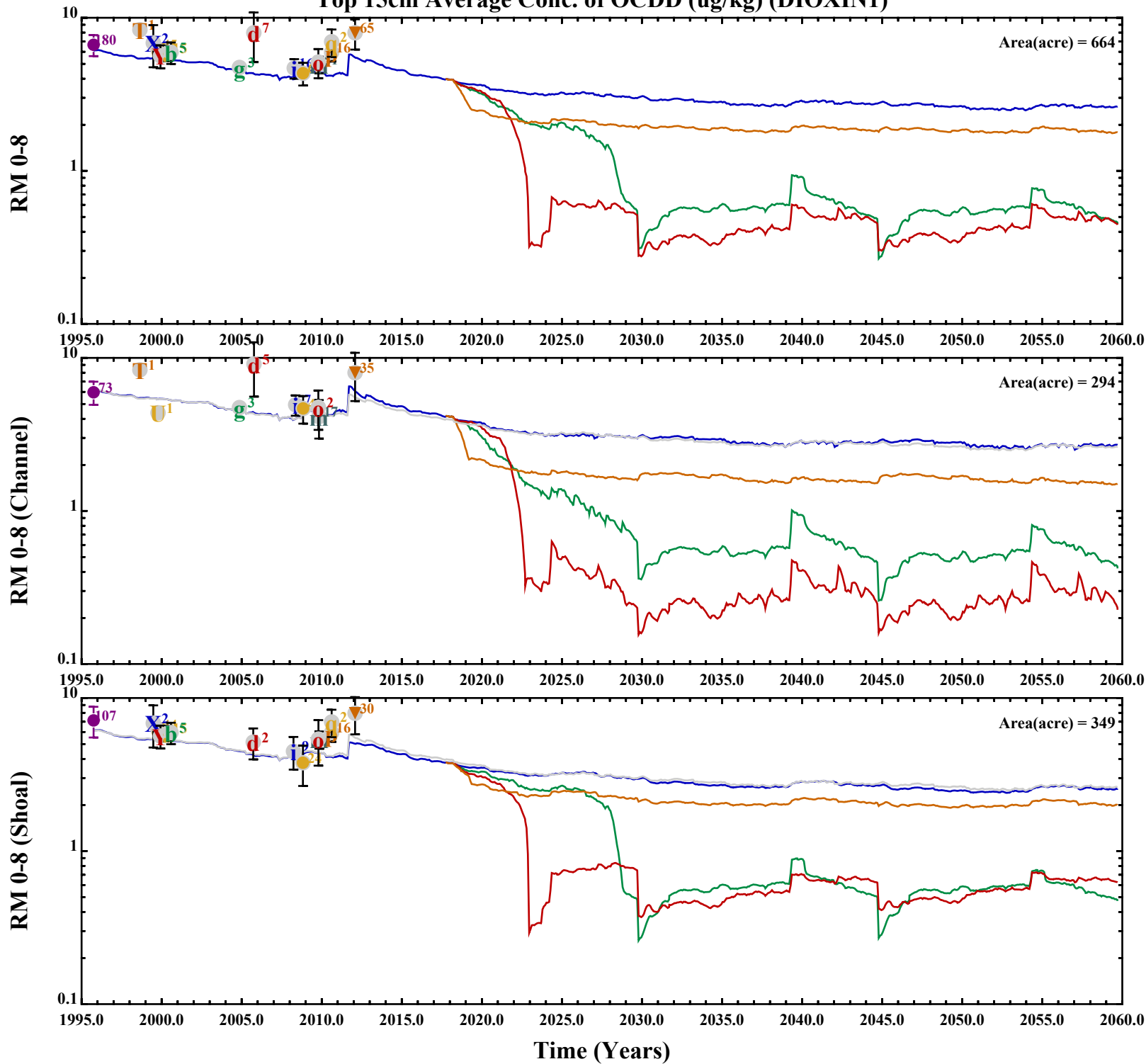
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

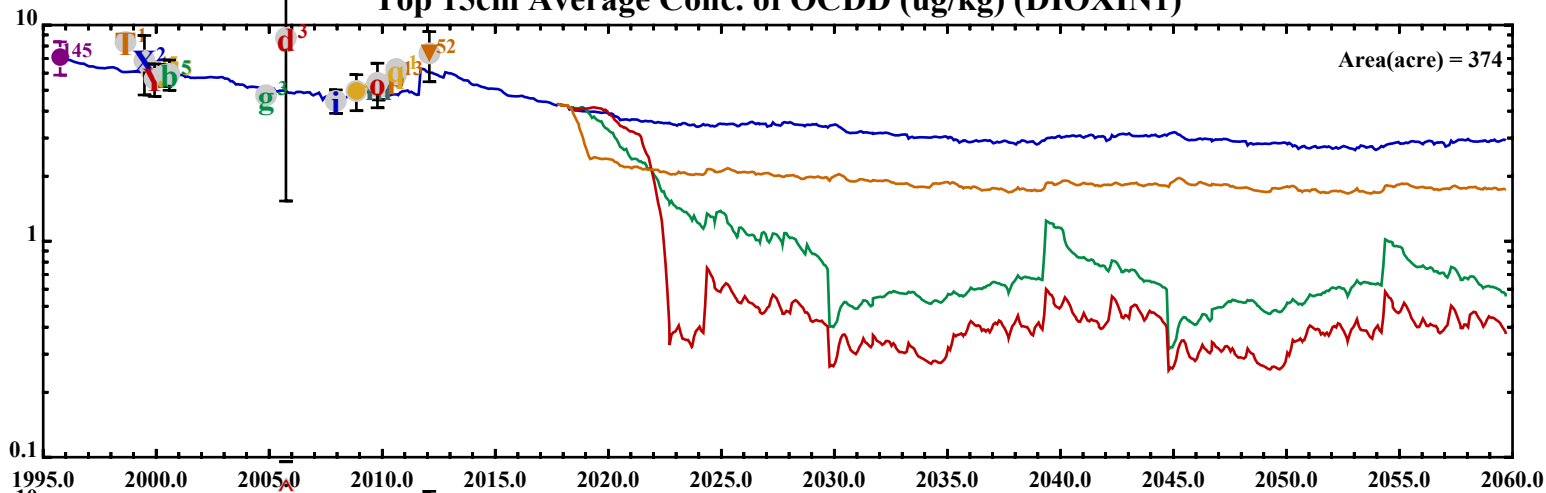


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

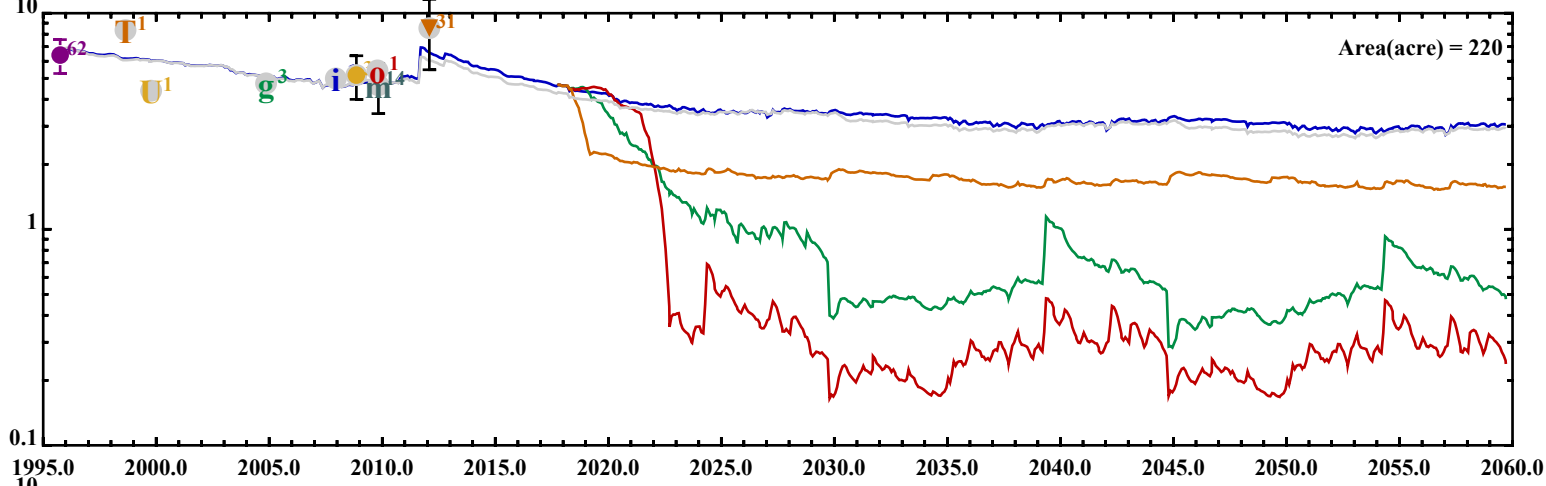


# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

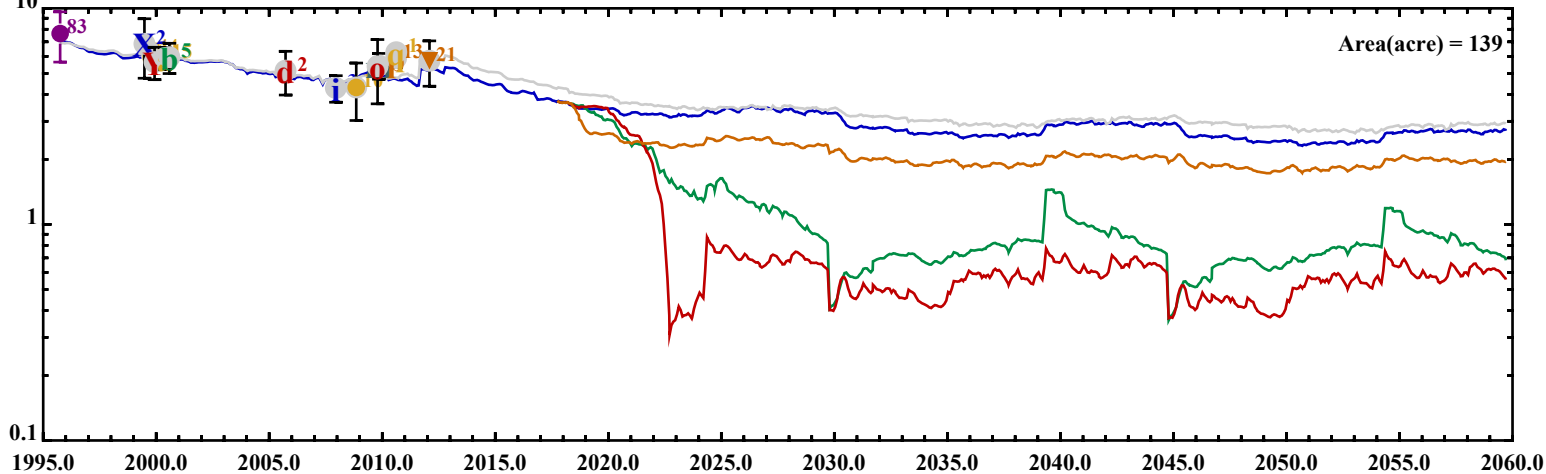
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

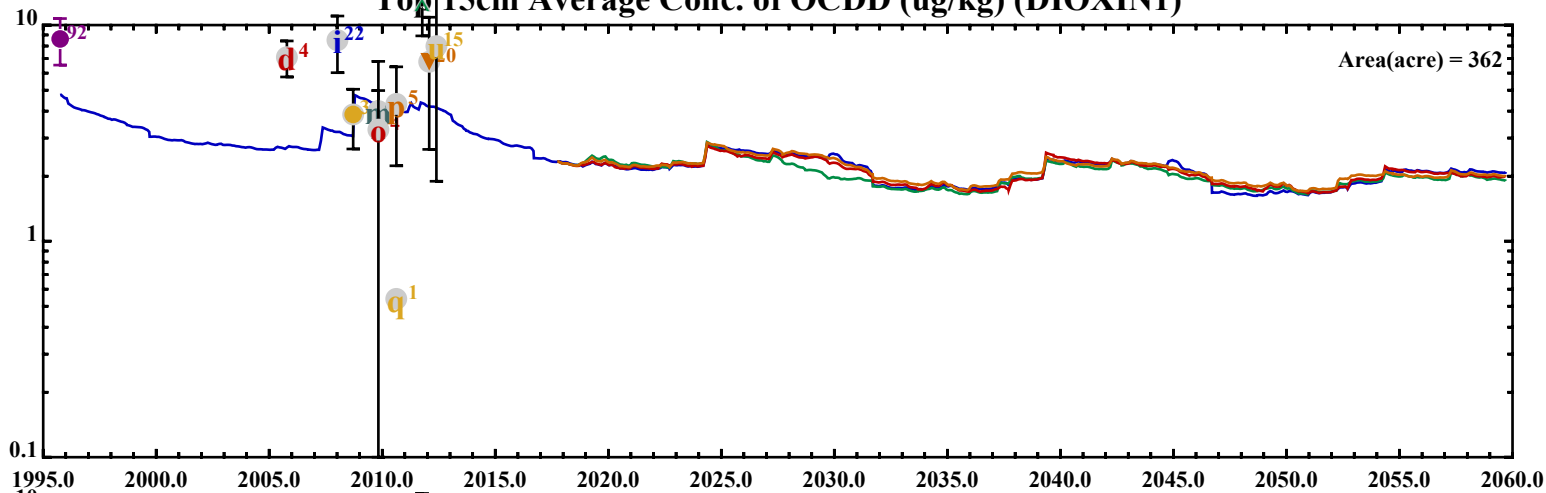


Time (Years)

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

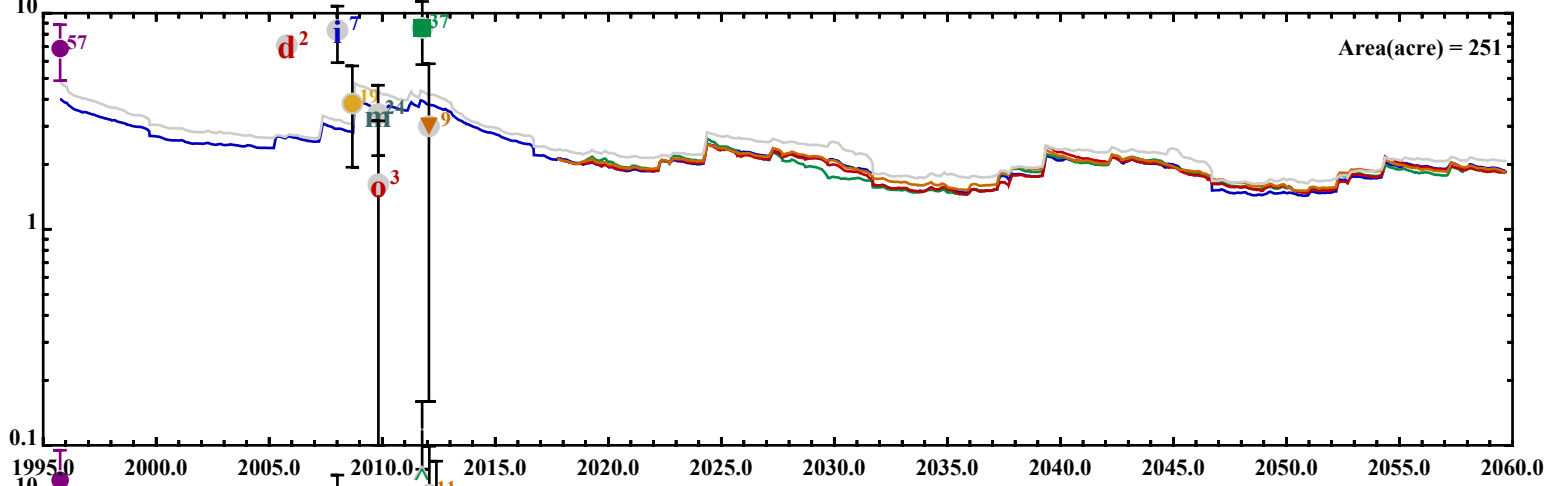
# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

RM 8-17



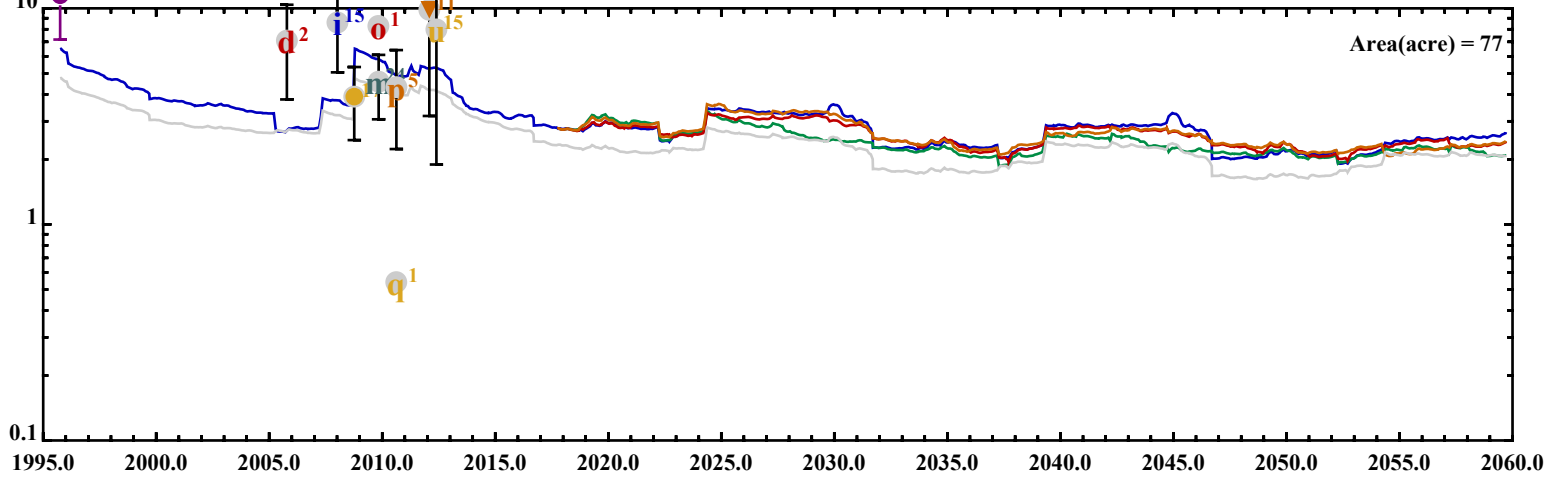
Area(acre) = 362

RM 8-17 (Channel)



Area(acre) = 251

RM 8-17 (Shoal)

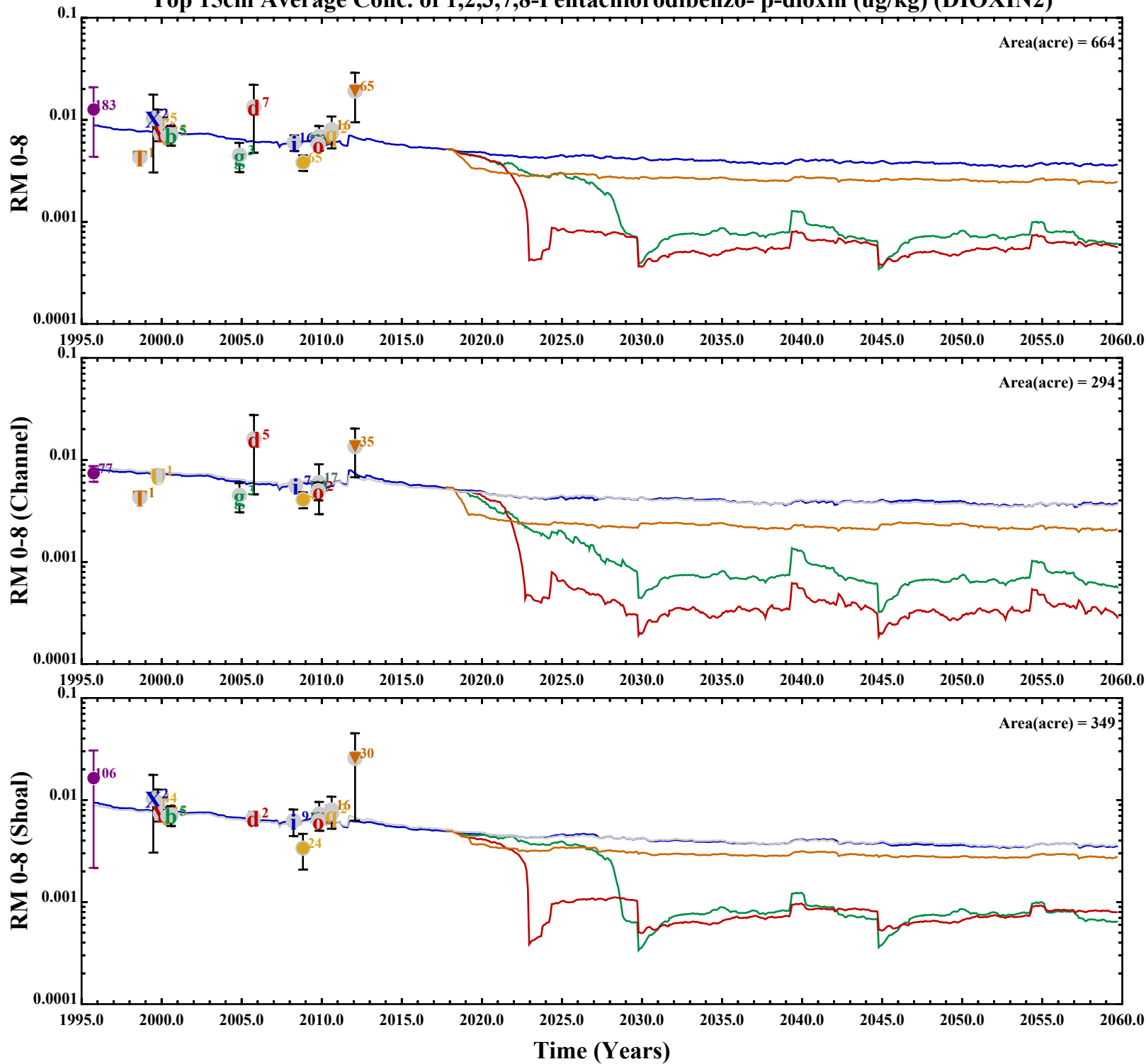


Area(acre) = 77

Time (Years)

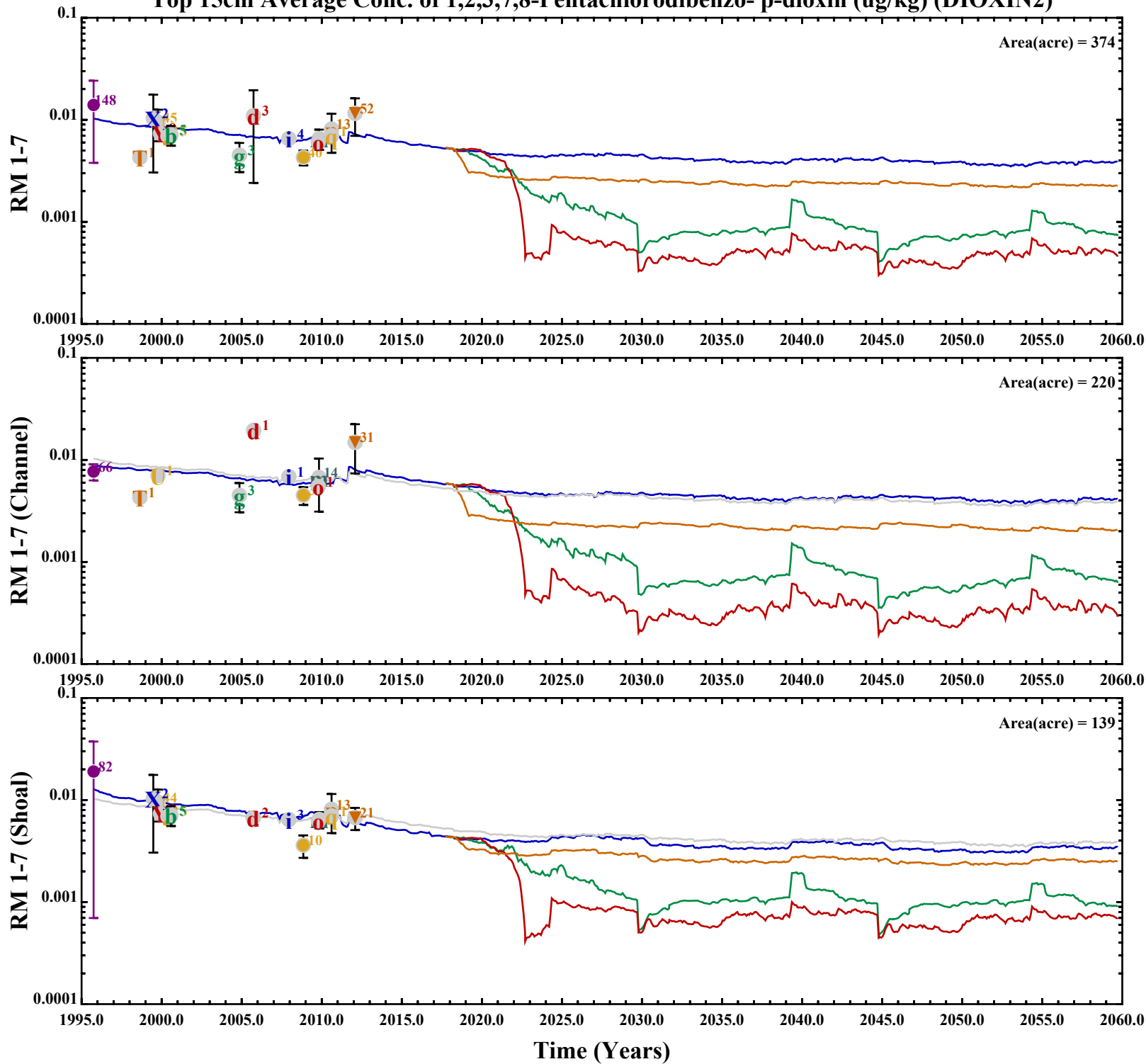
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



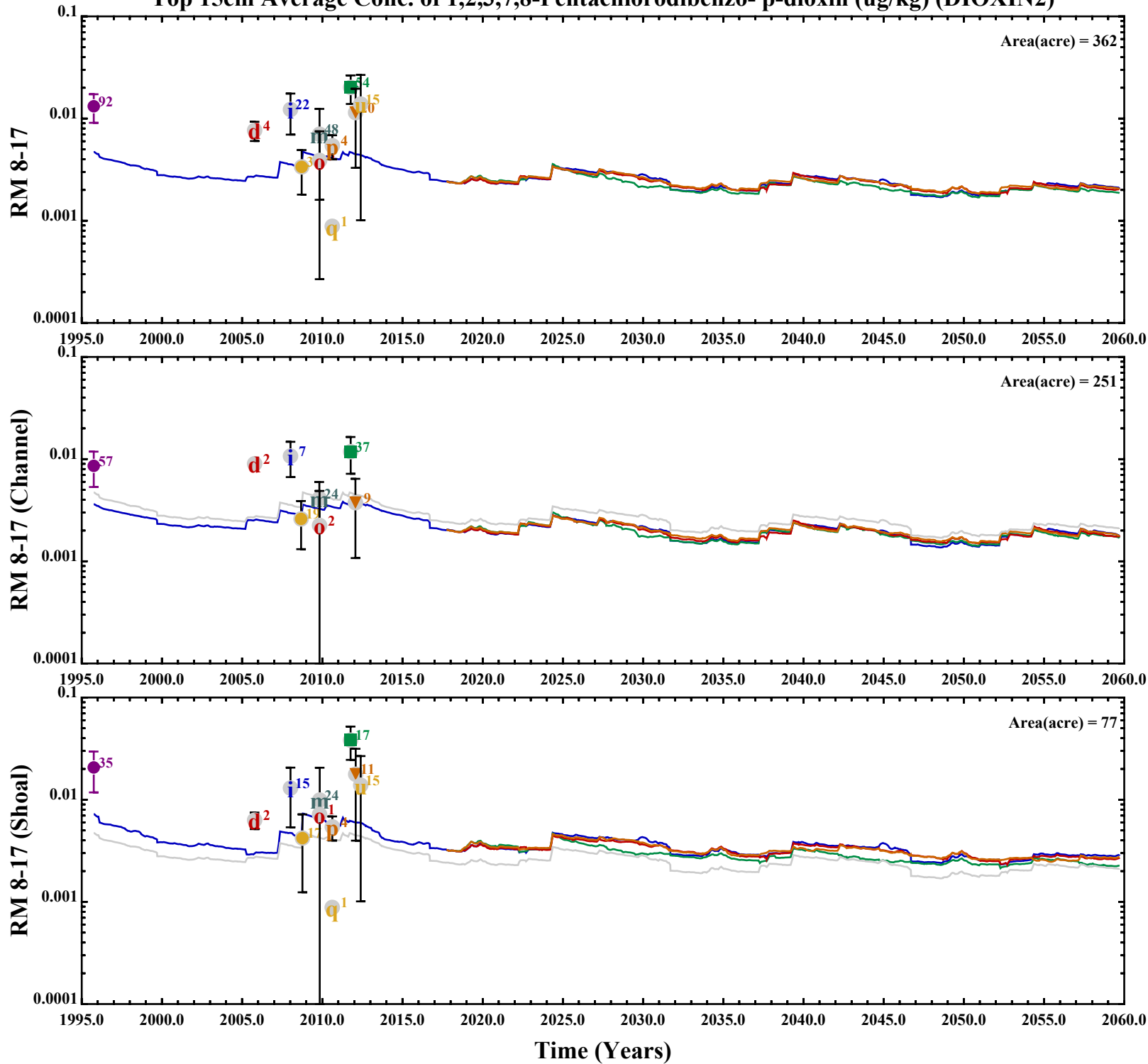
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 USEPA Surficial Sediment Program
  - 1994 Surficial Sediment Investigation
  - 1994 Surficial Sediment Investigation
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



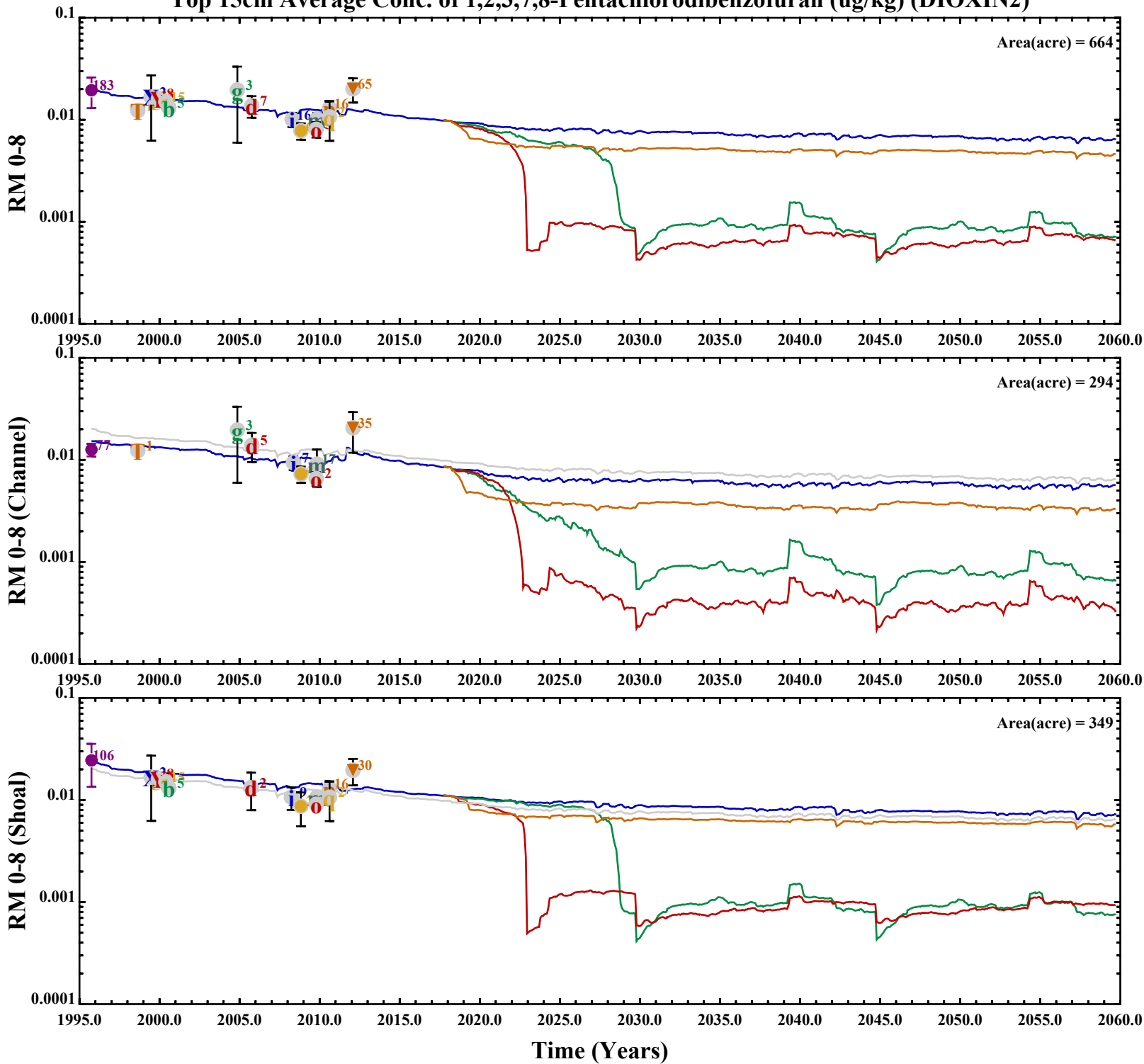
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 USEPA Surficial Sediment Program
  - 1994 Surficial Sediment Investigation
  - 1994 Surficial Sediment Investigation
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



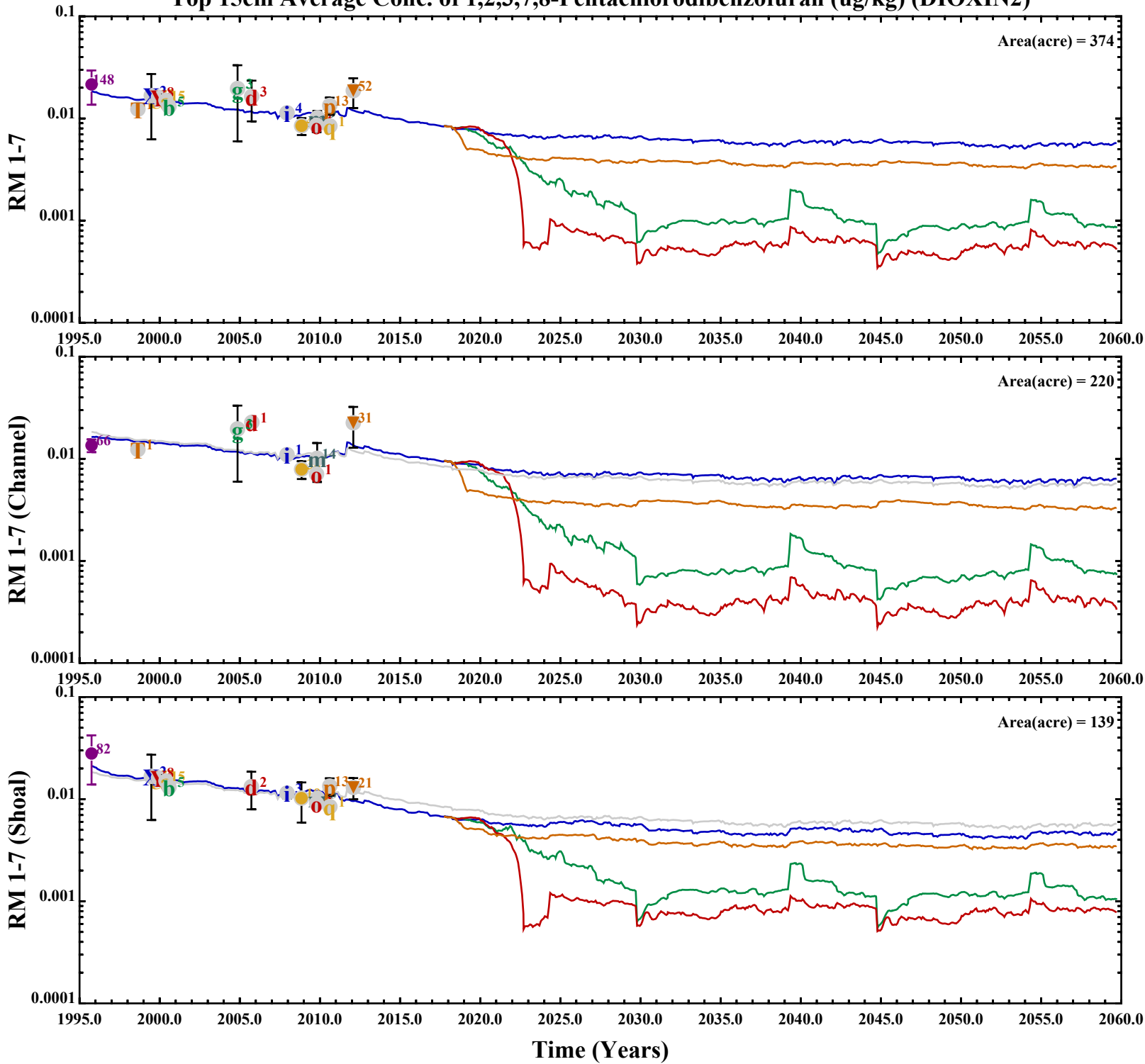
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 USEPA Surficial Sediment Program
  - 1994 Surficial Sediment Investigation
  - 1994 Surficial Sediment Investigation
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

### Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



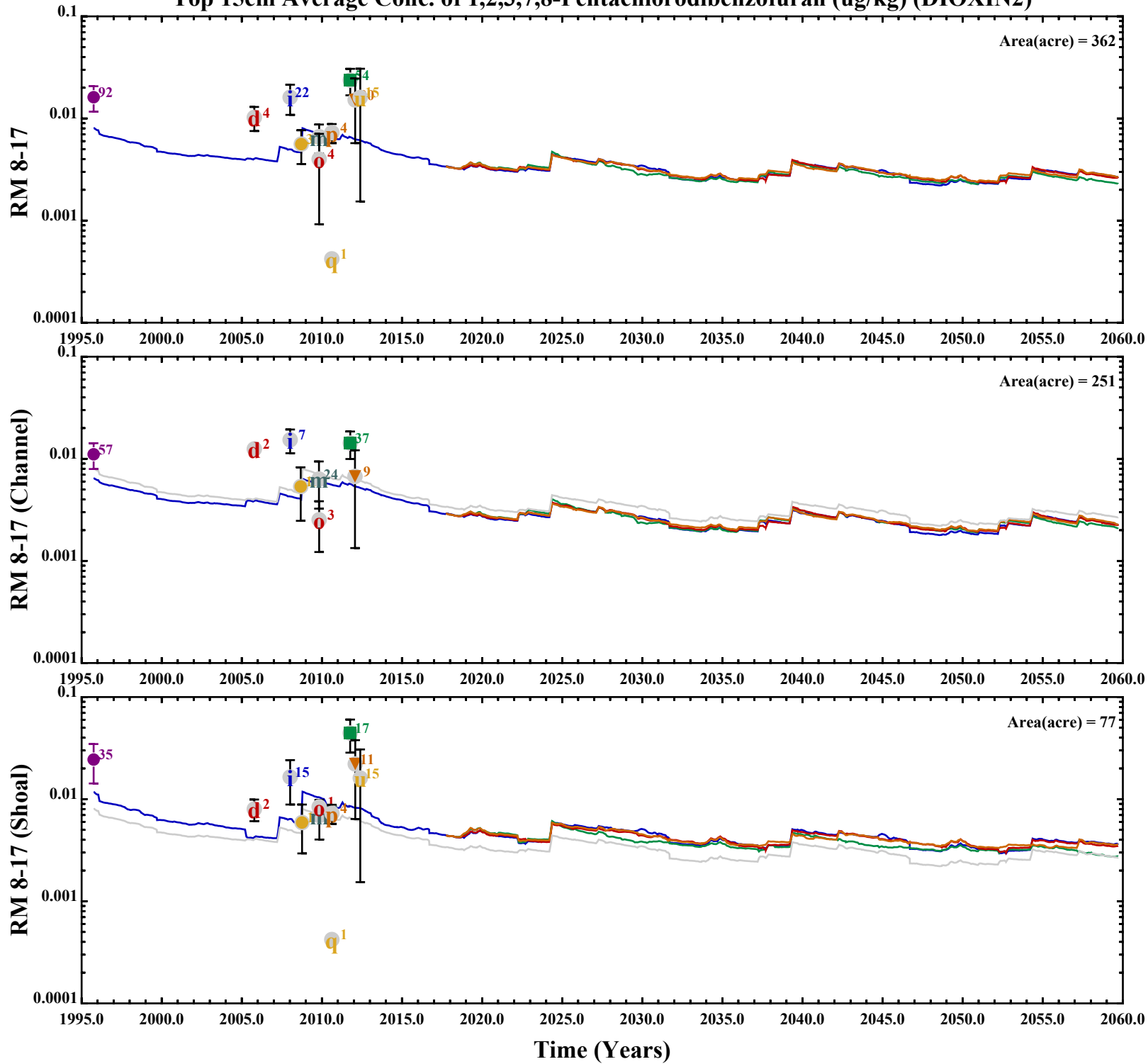
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1994 NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

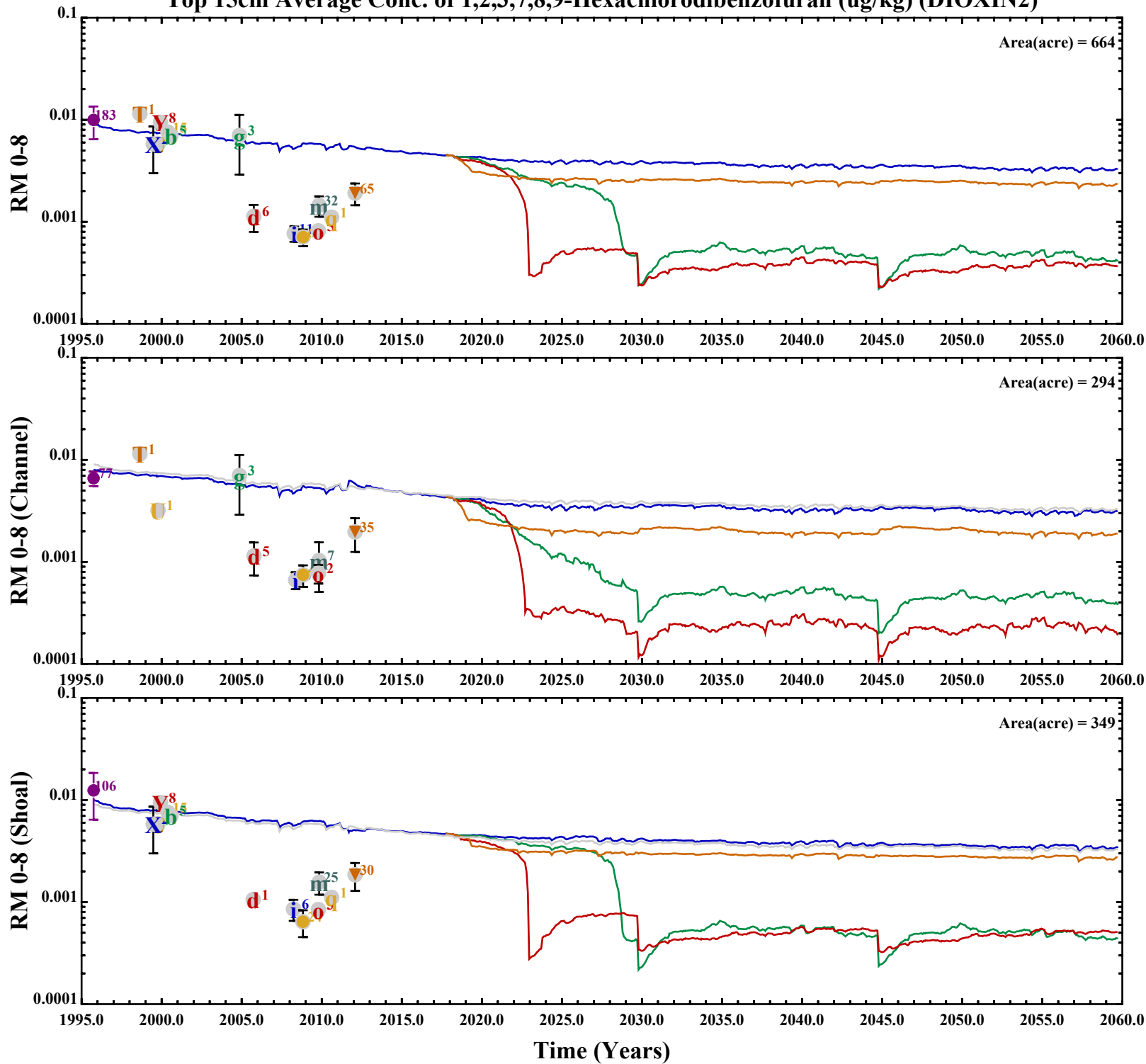
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
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  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - r 2011 CPG River Mile 10.9 Data
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

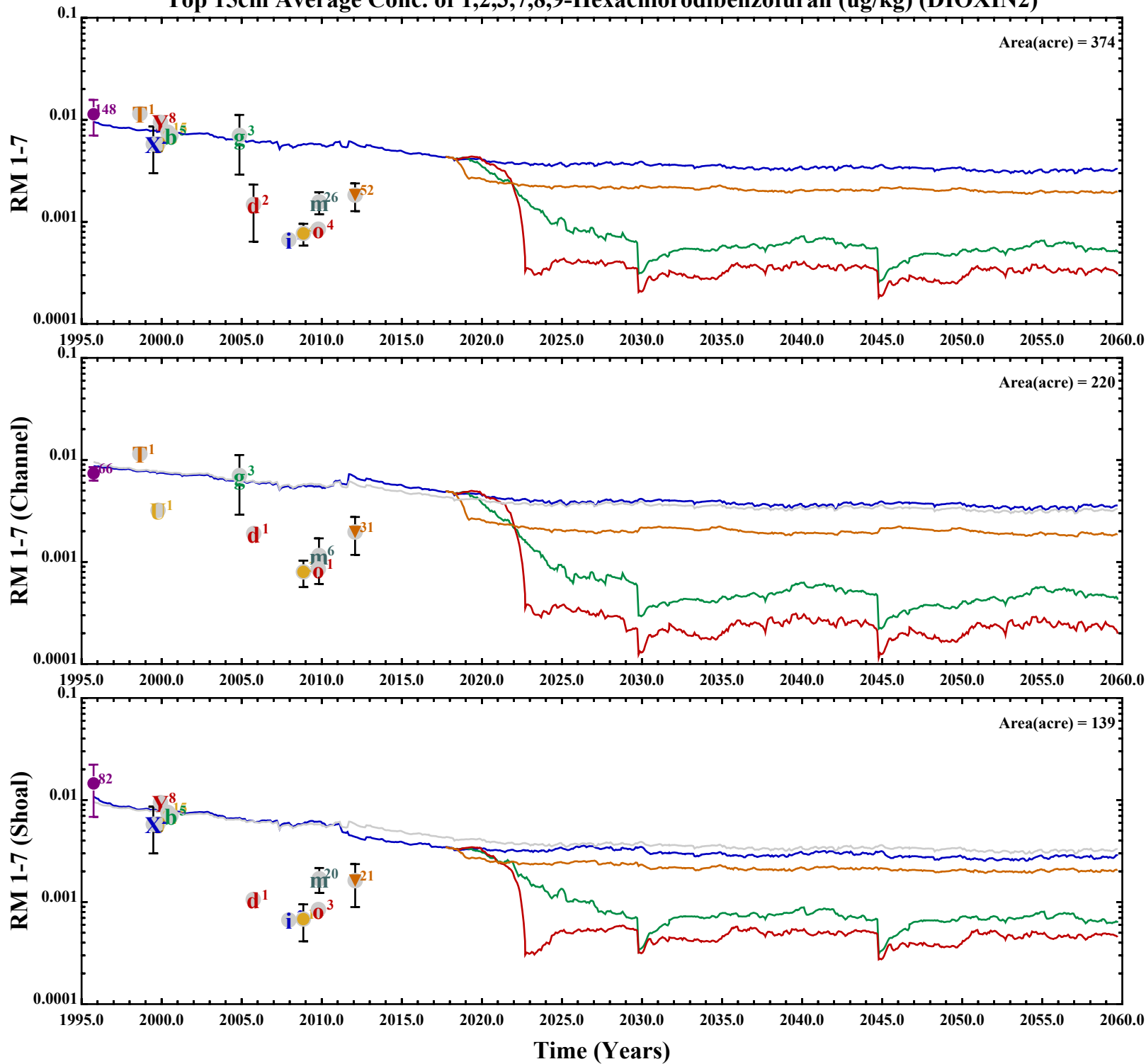


# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



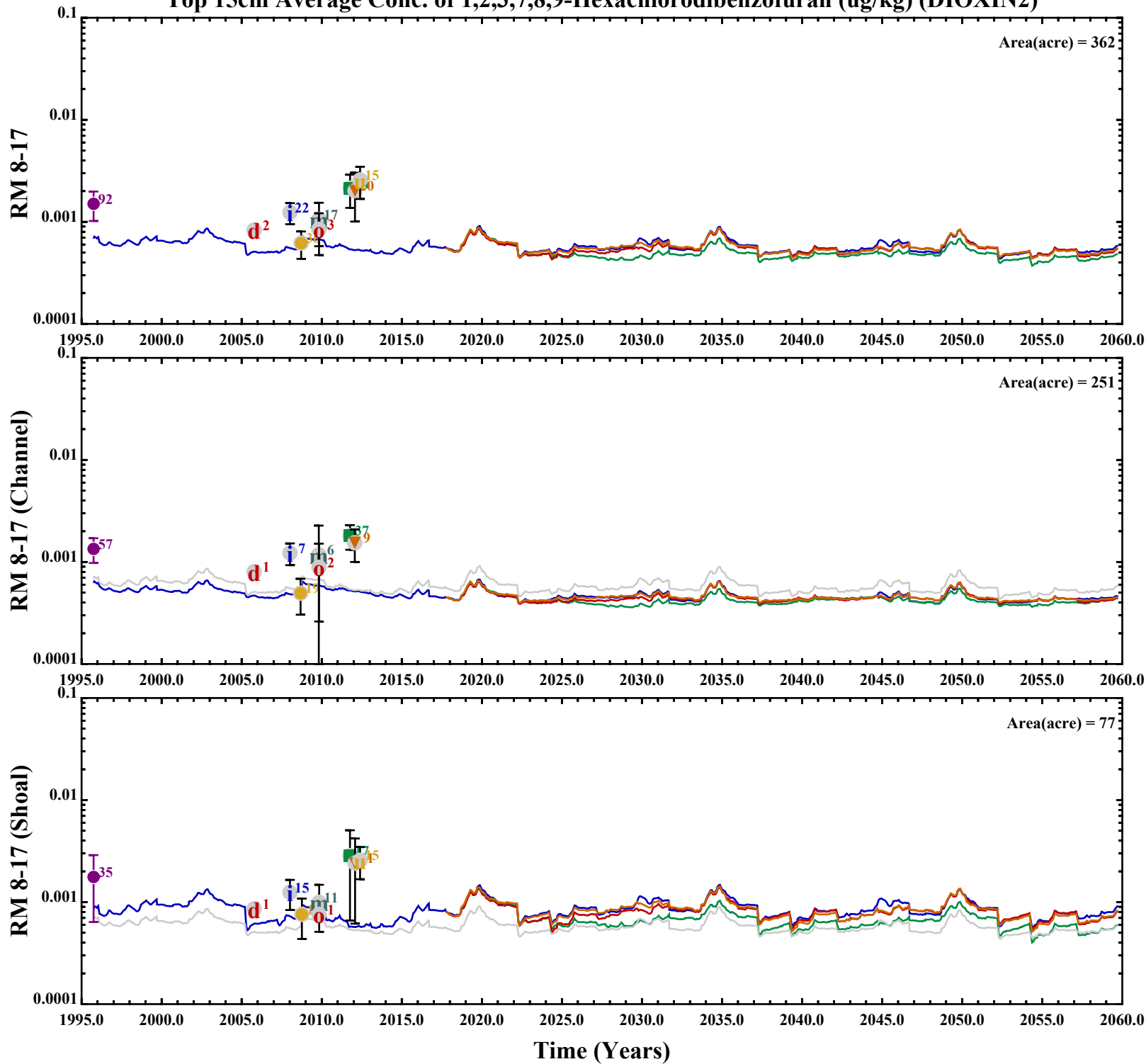
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
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  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



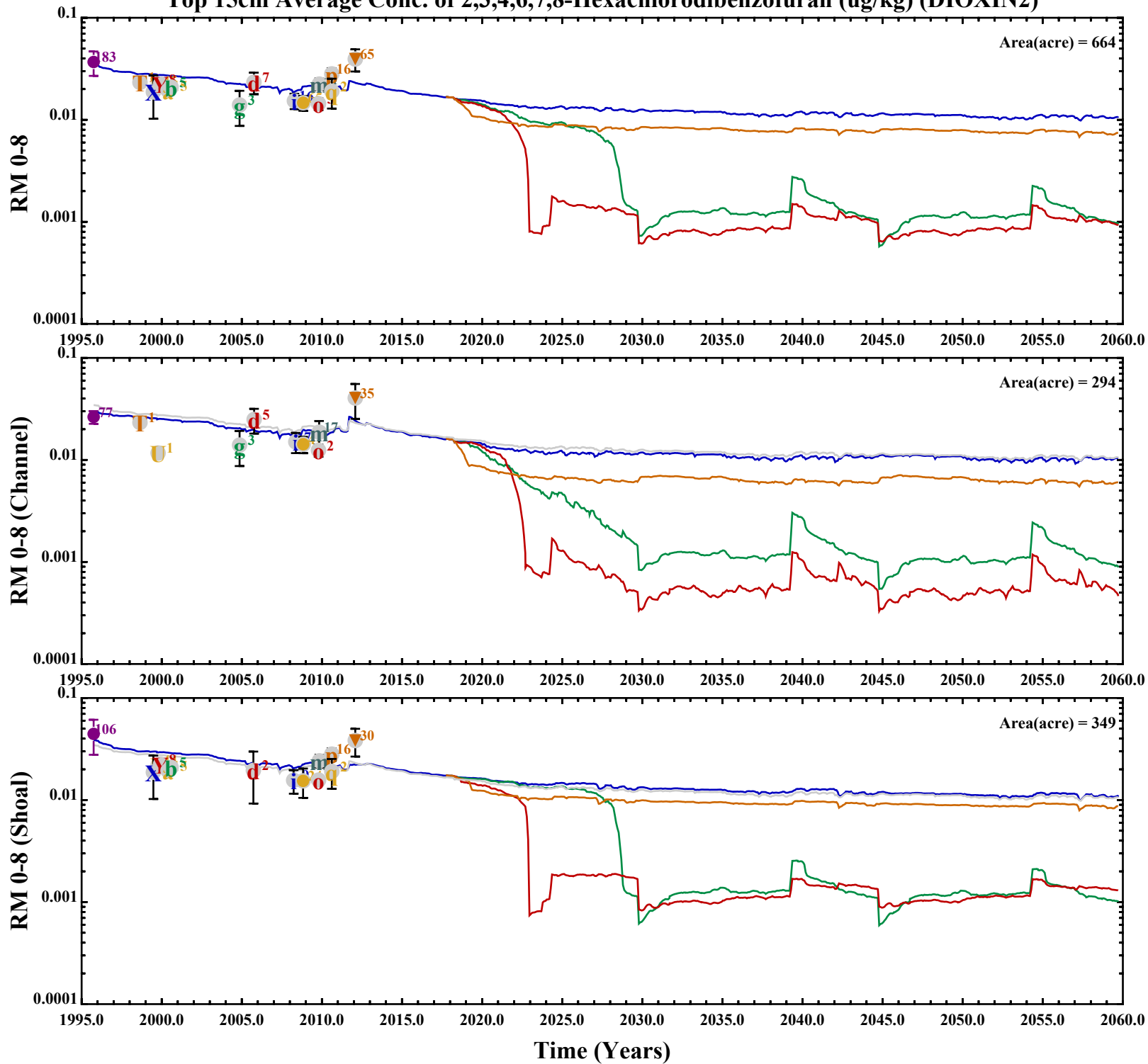
- Data used for ICs
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  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



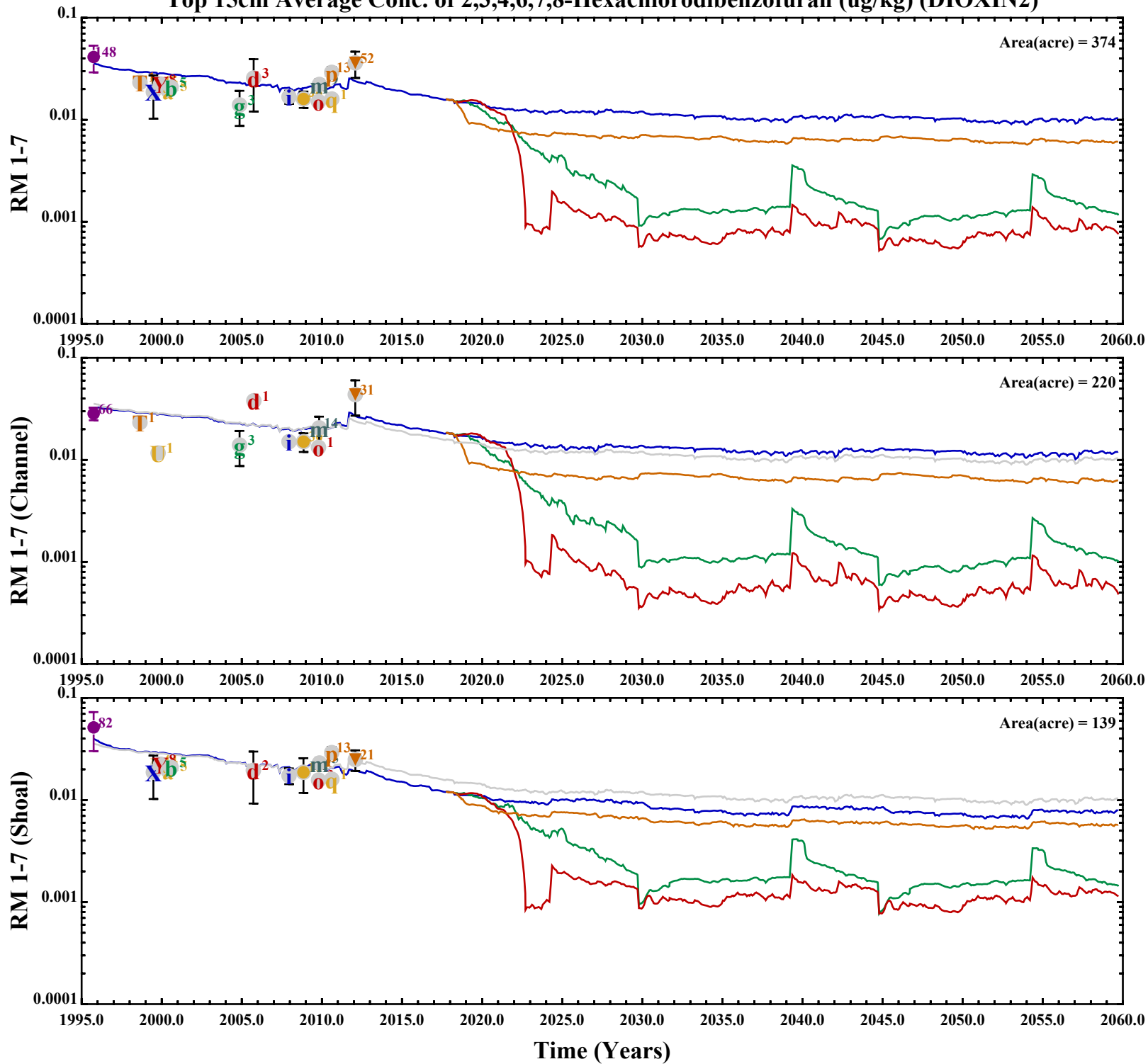
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
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  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



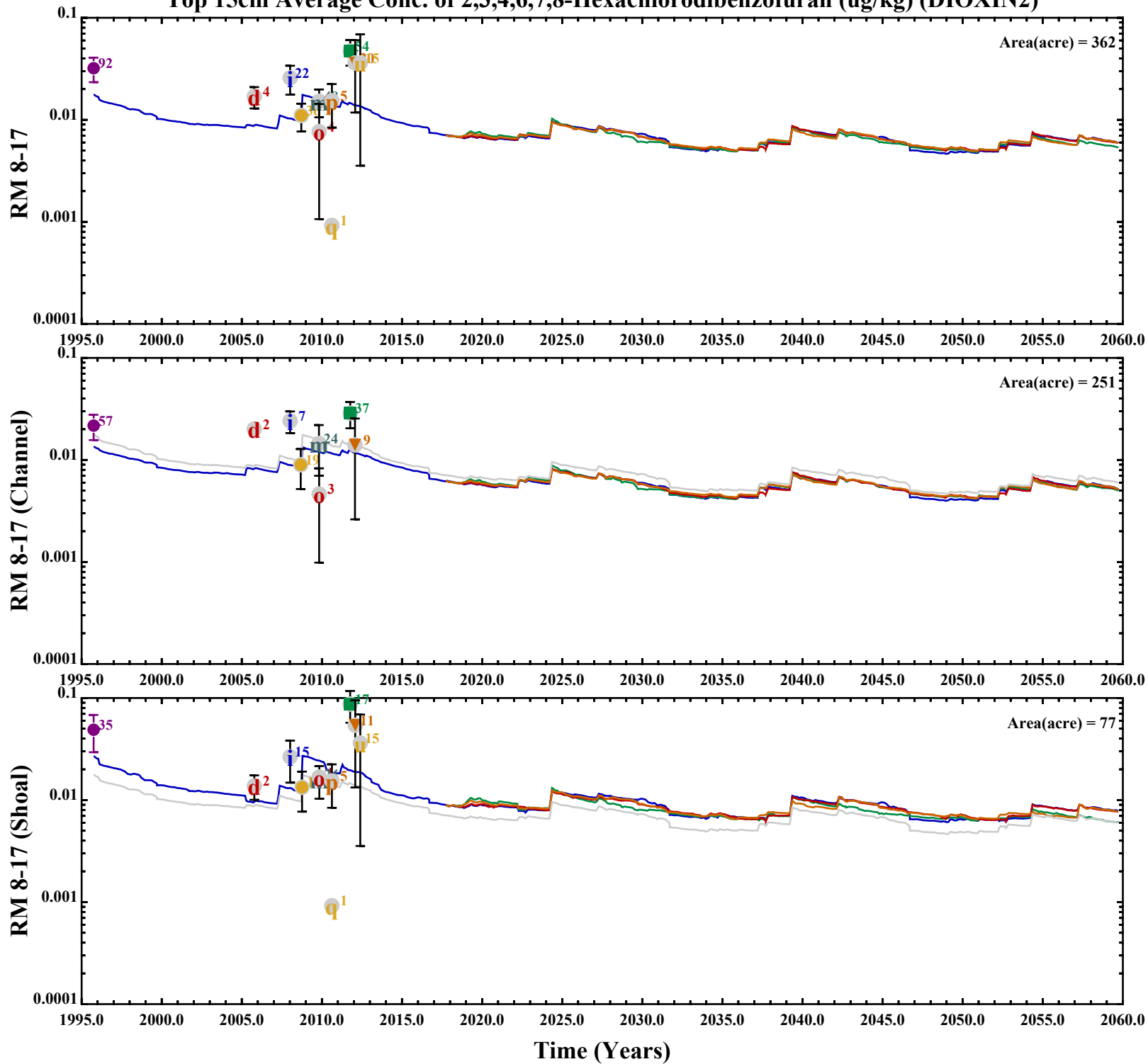
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



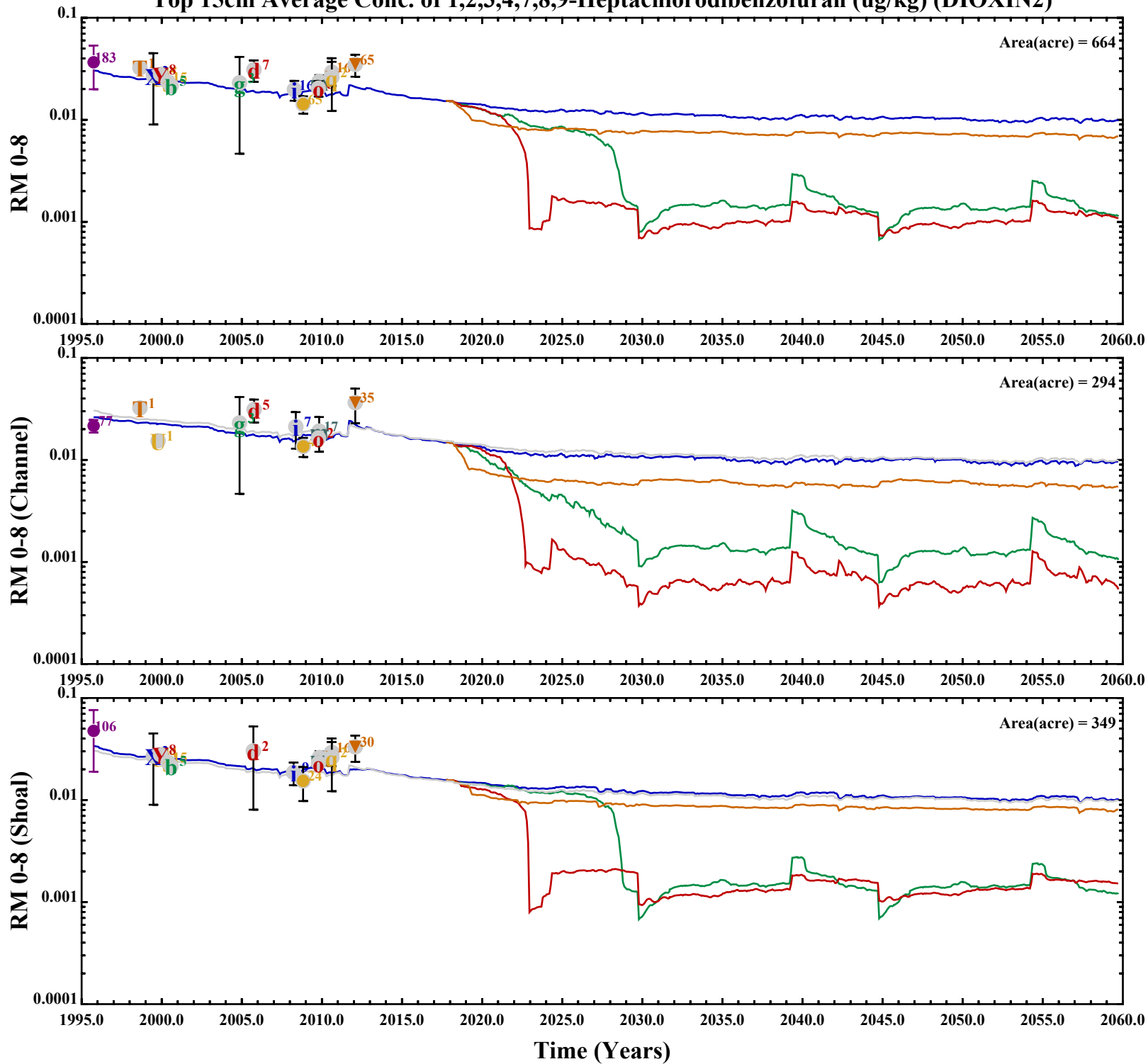
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



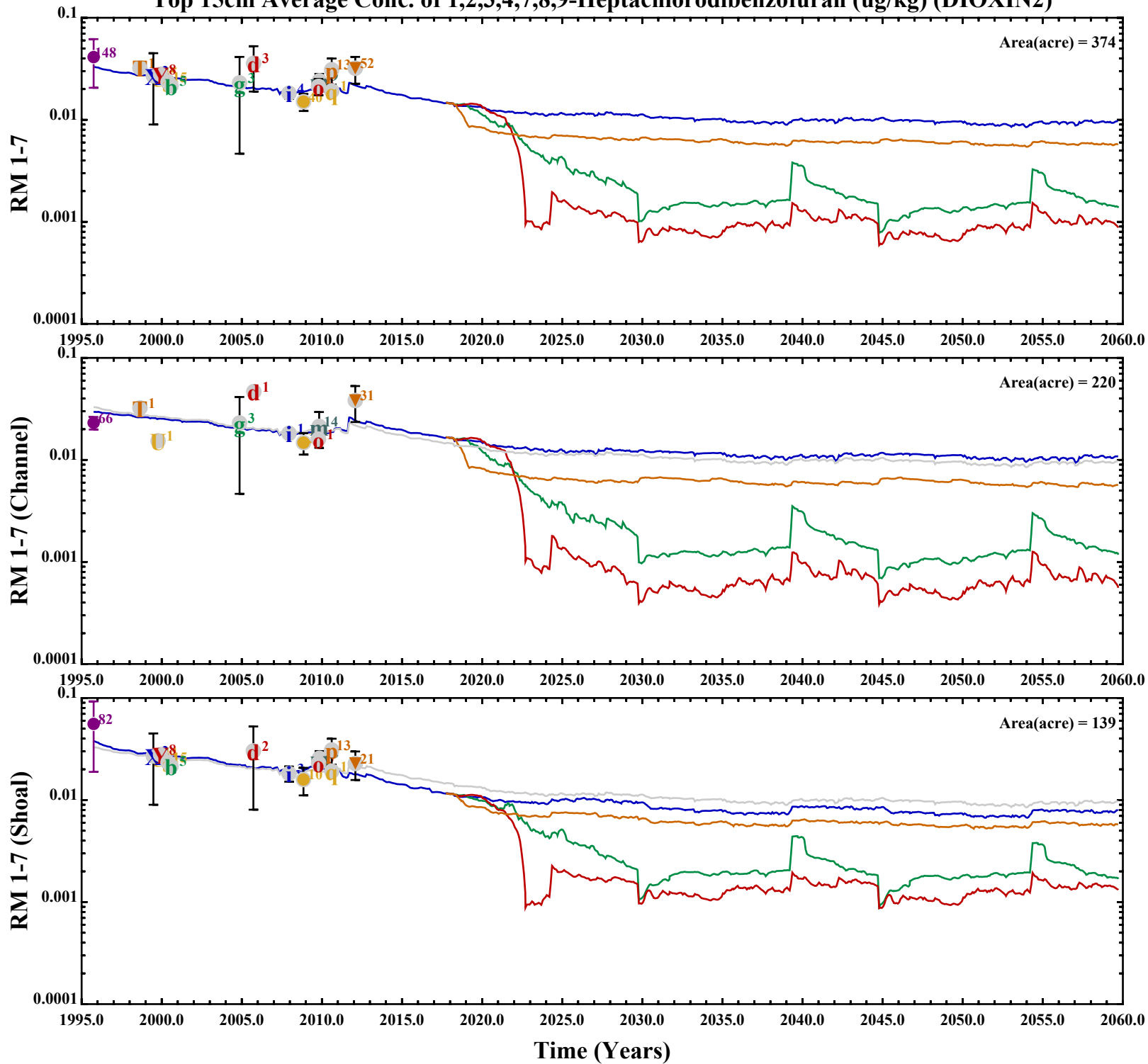
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

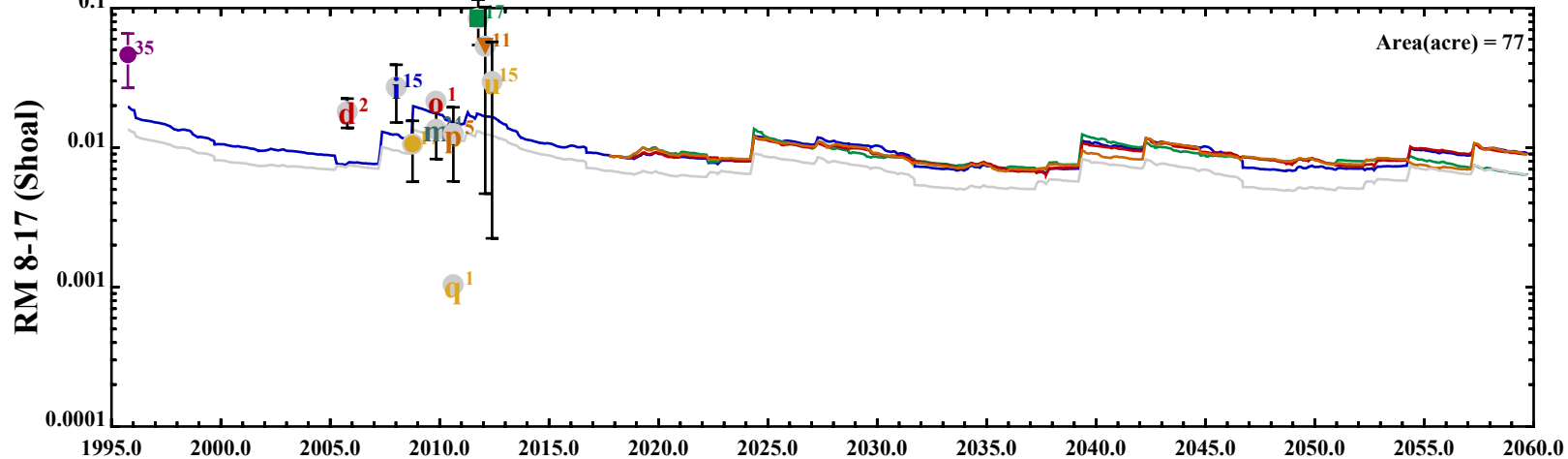
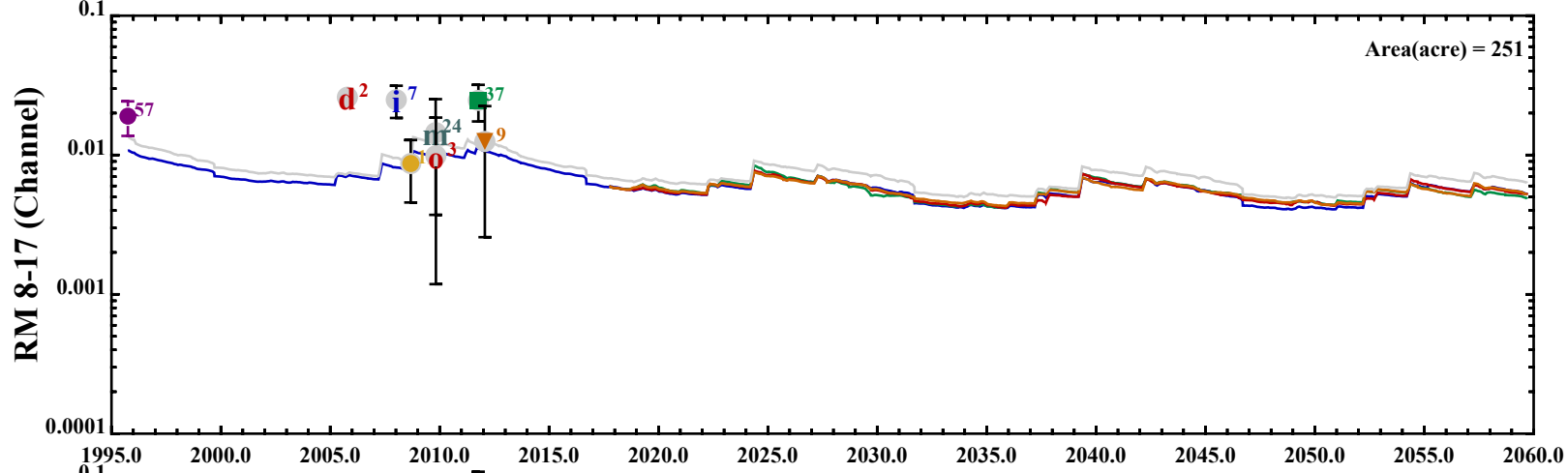
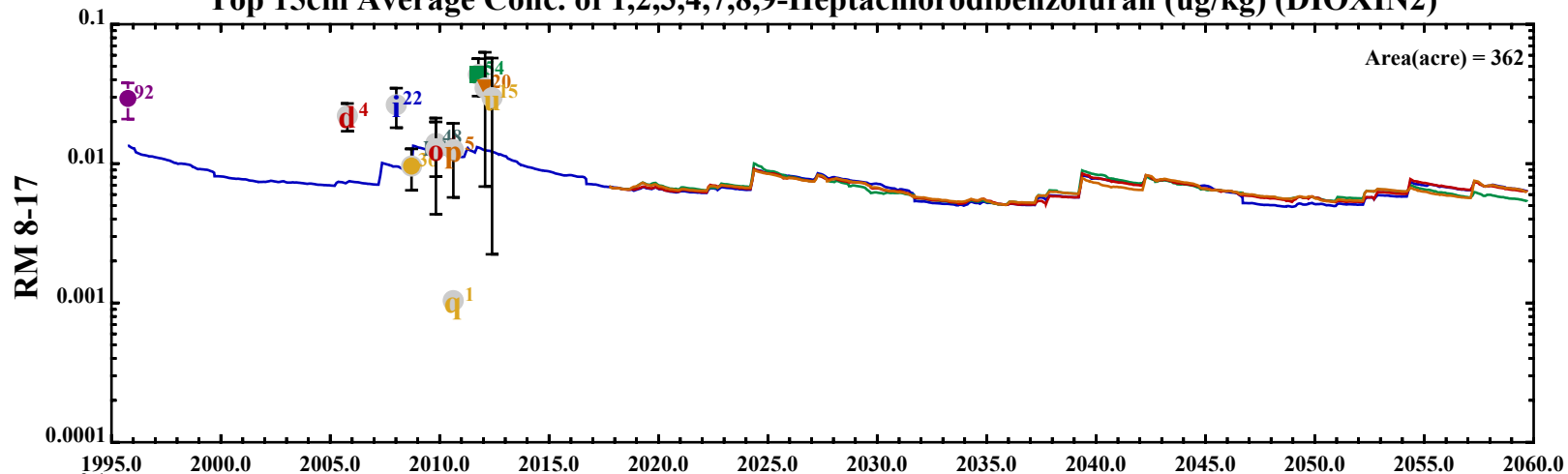
# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



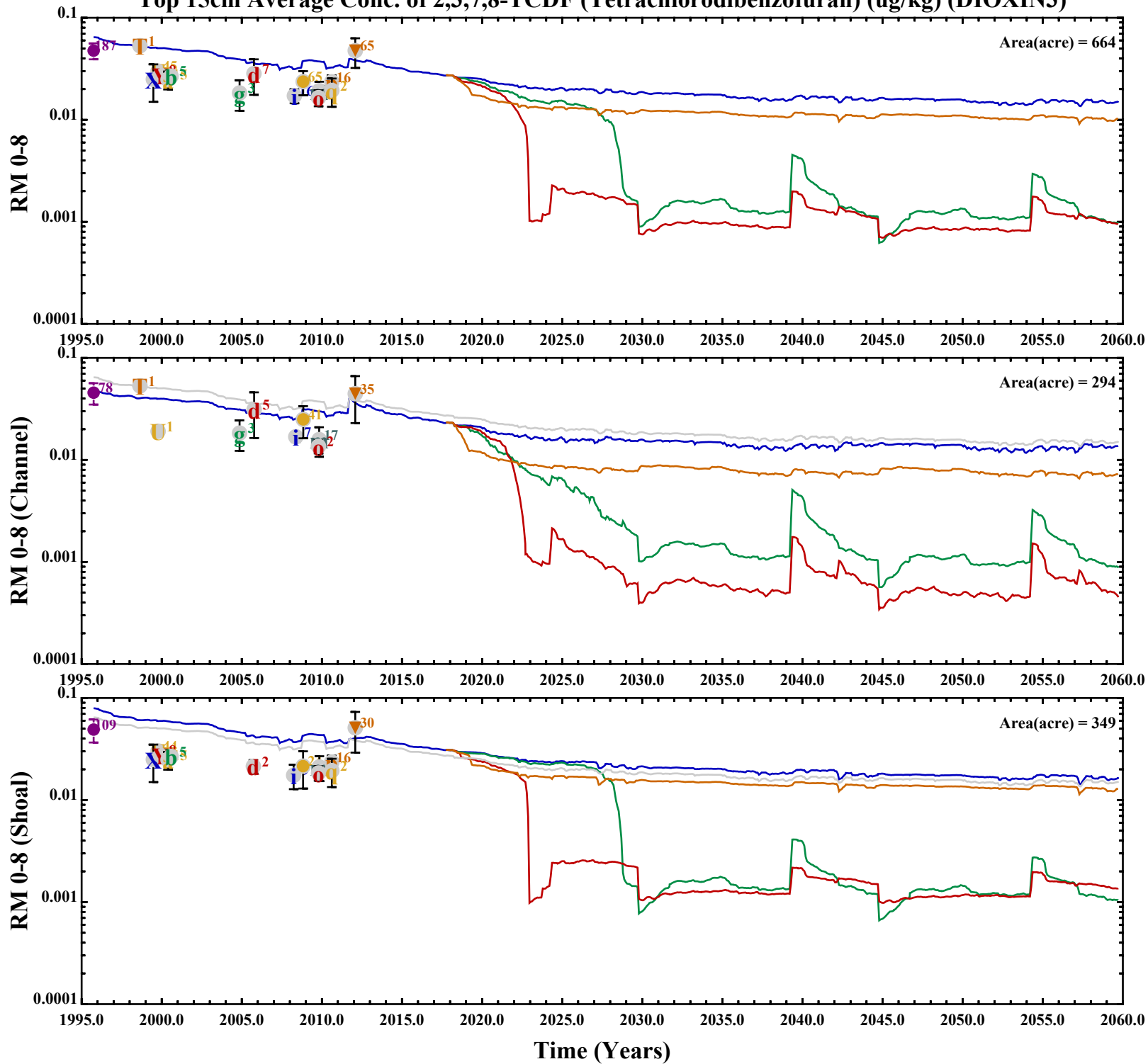
# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

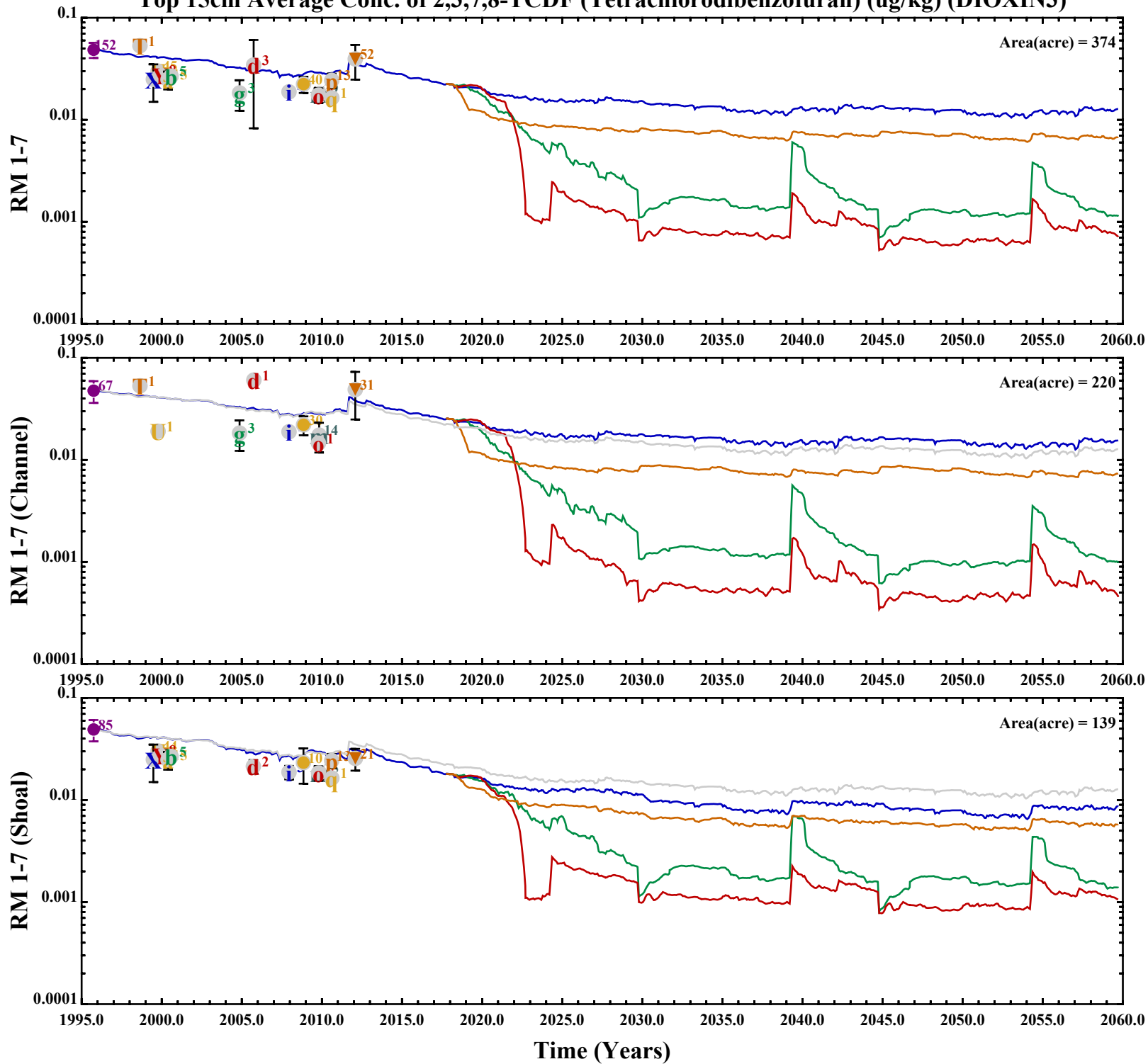
Time (Years)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



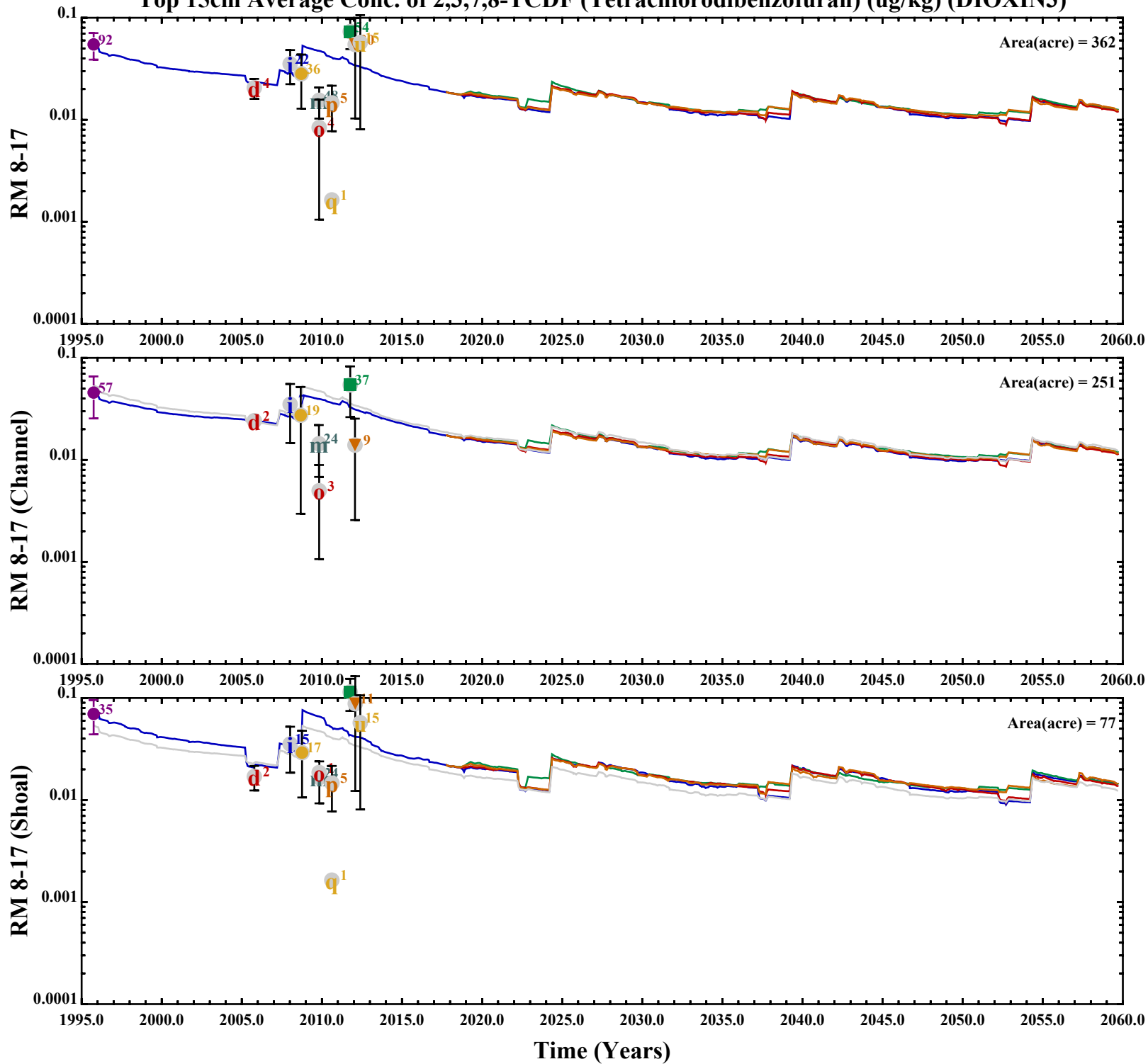
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



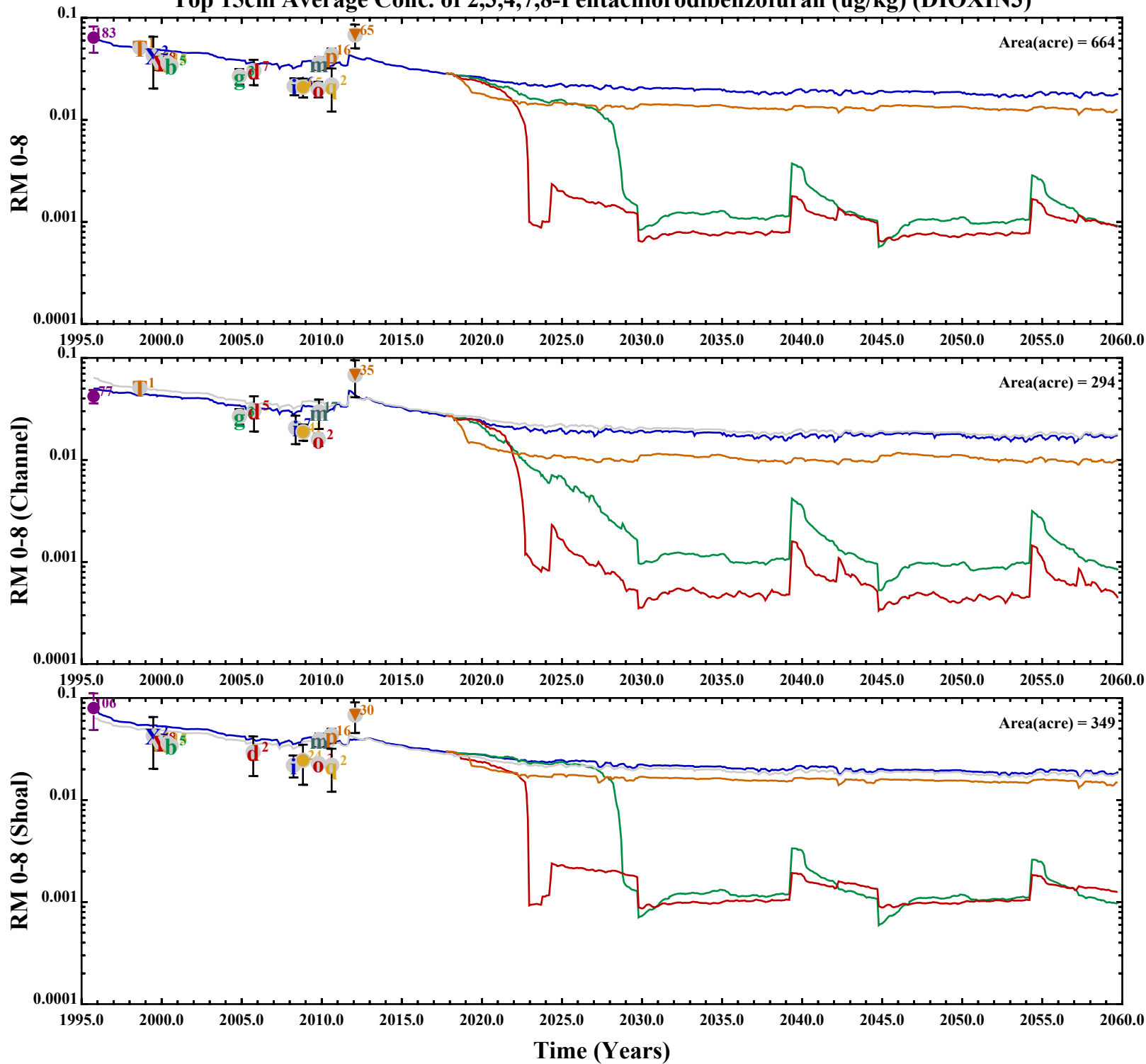
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

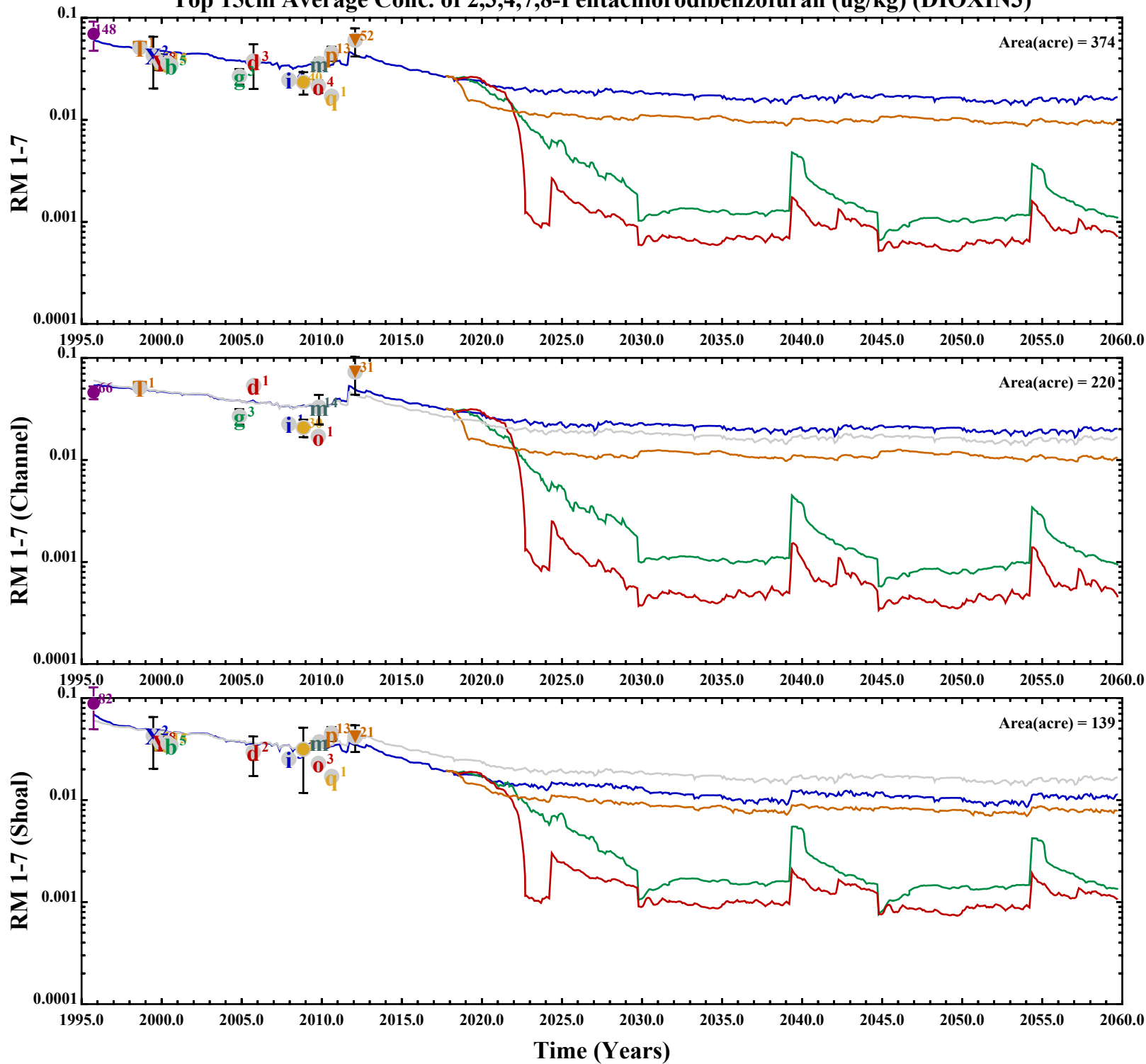
# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
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- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

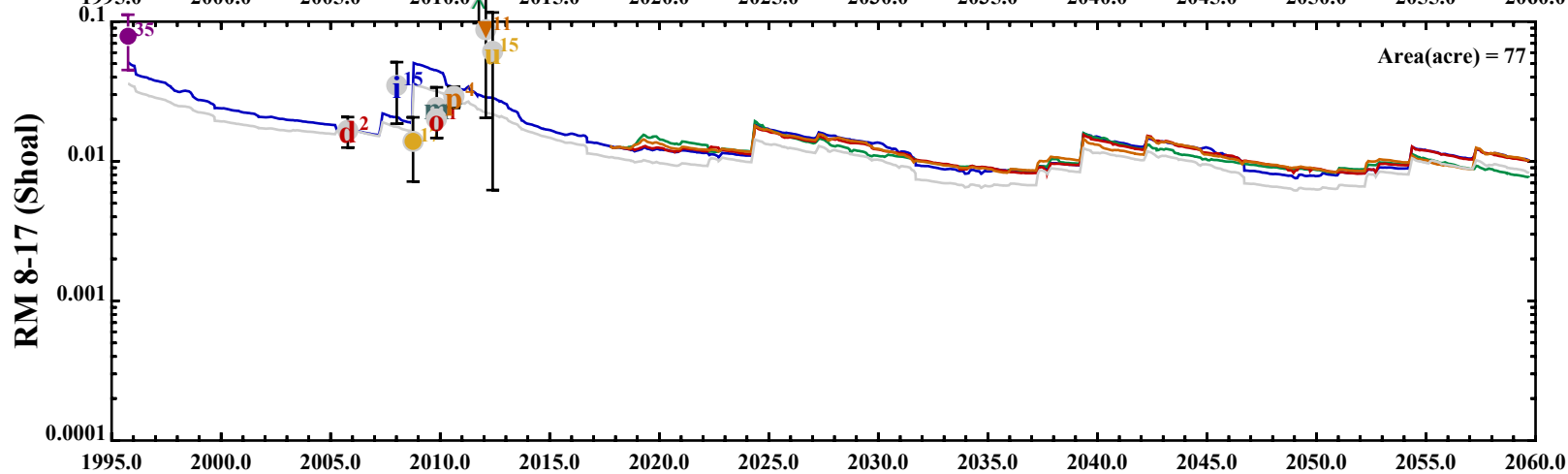
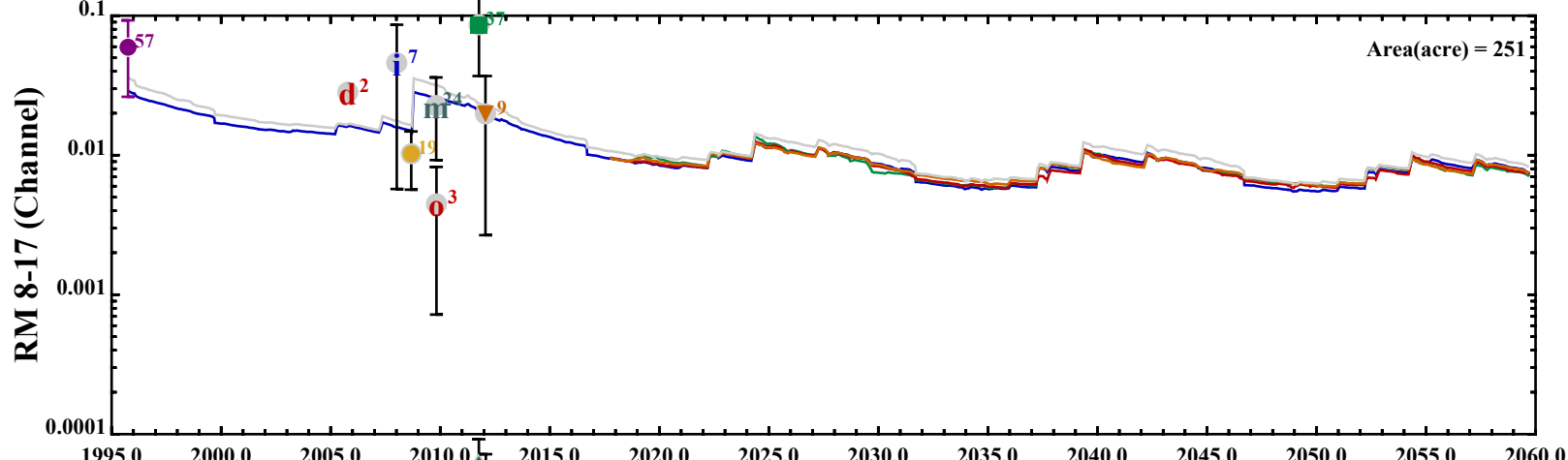
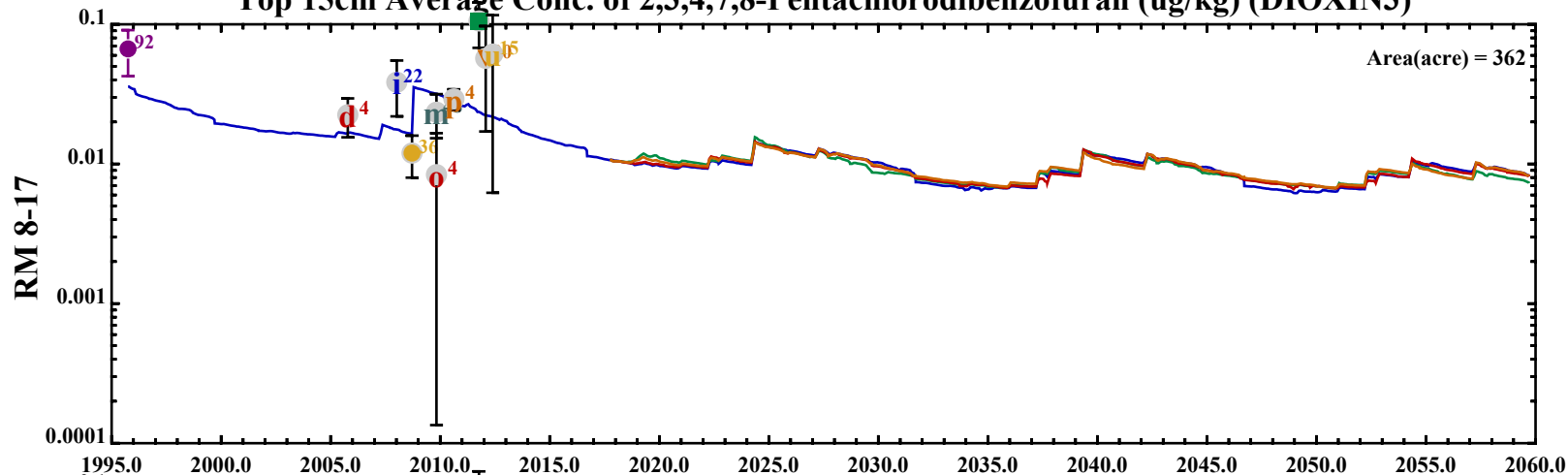
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

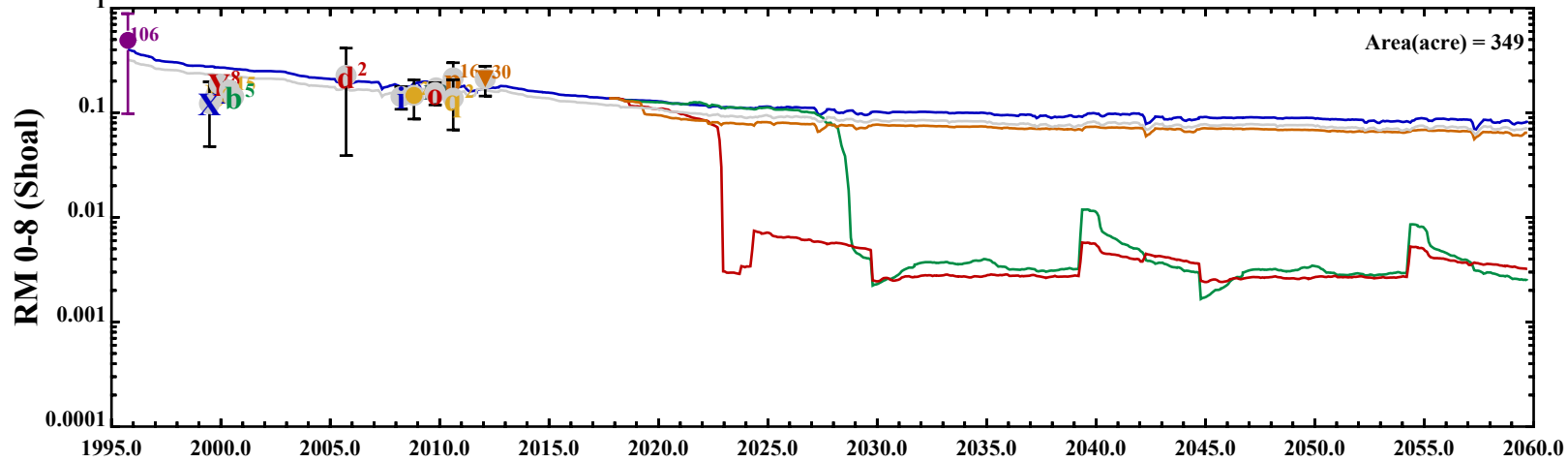
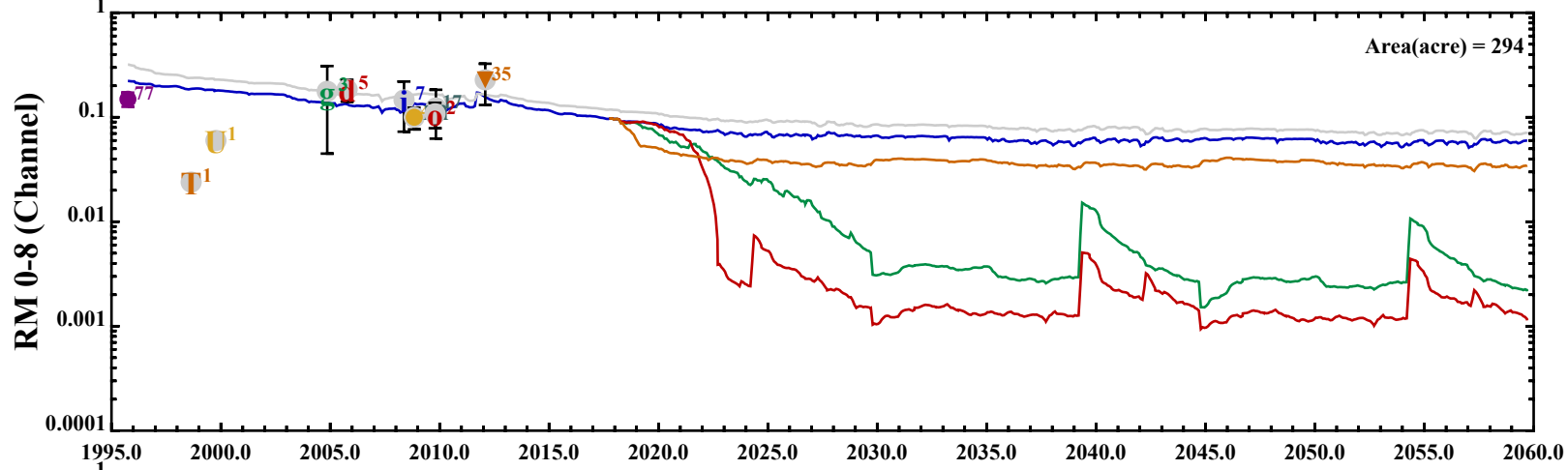
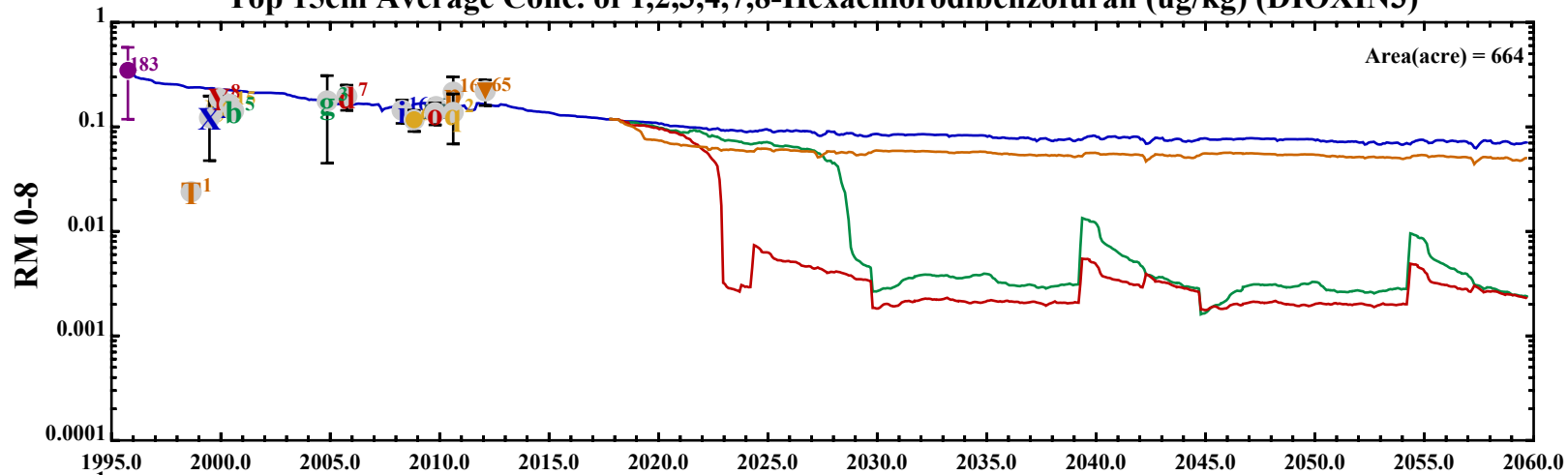
# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

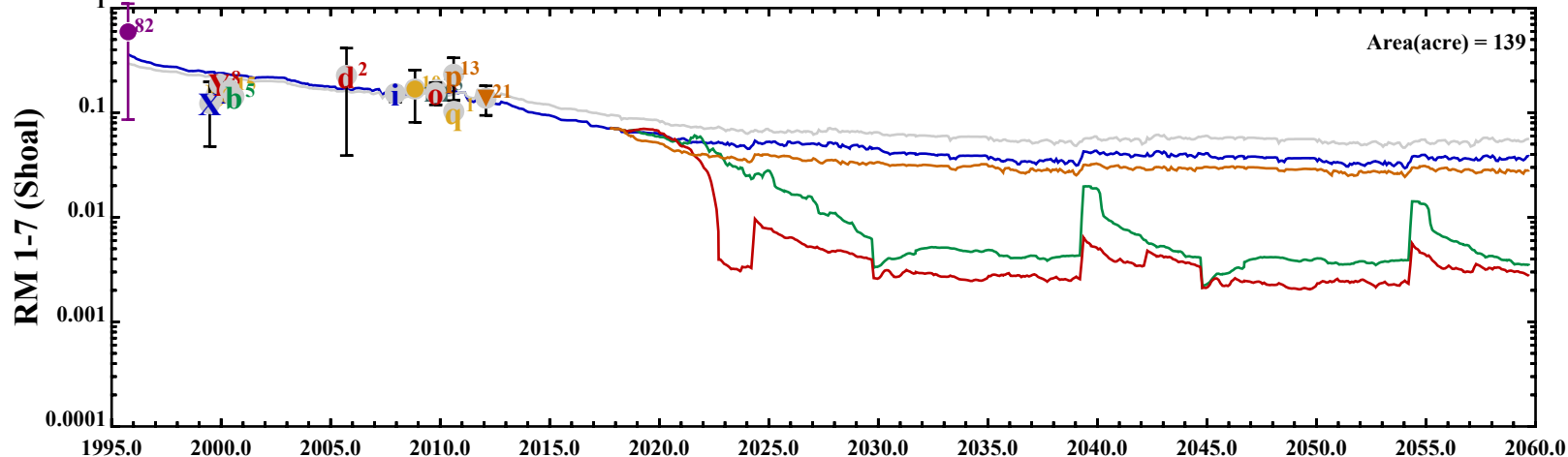
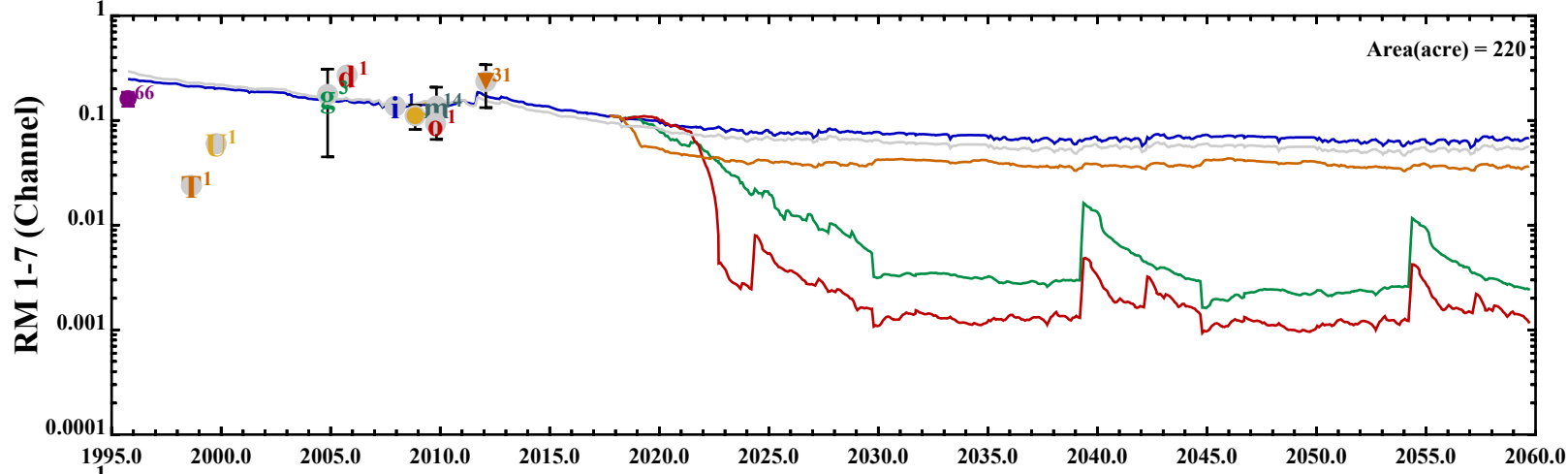
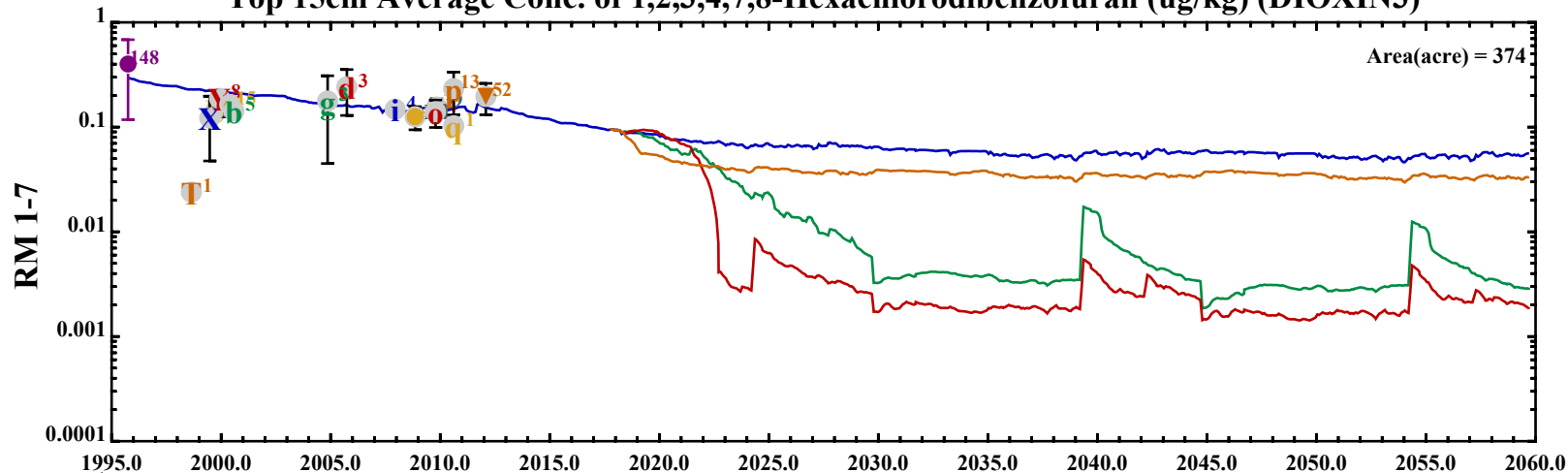


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



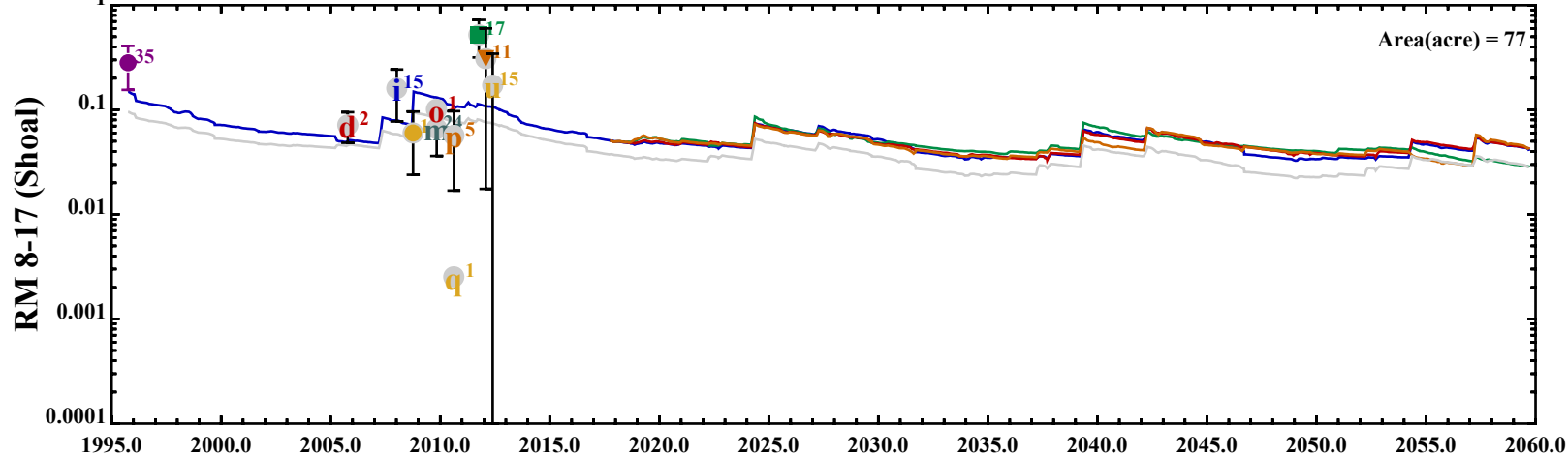
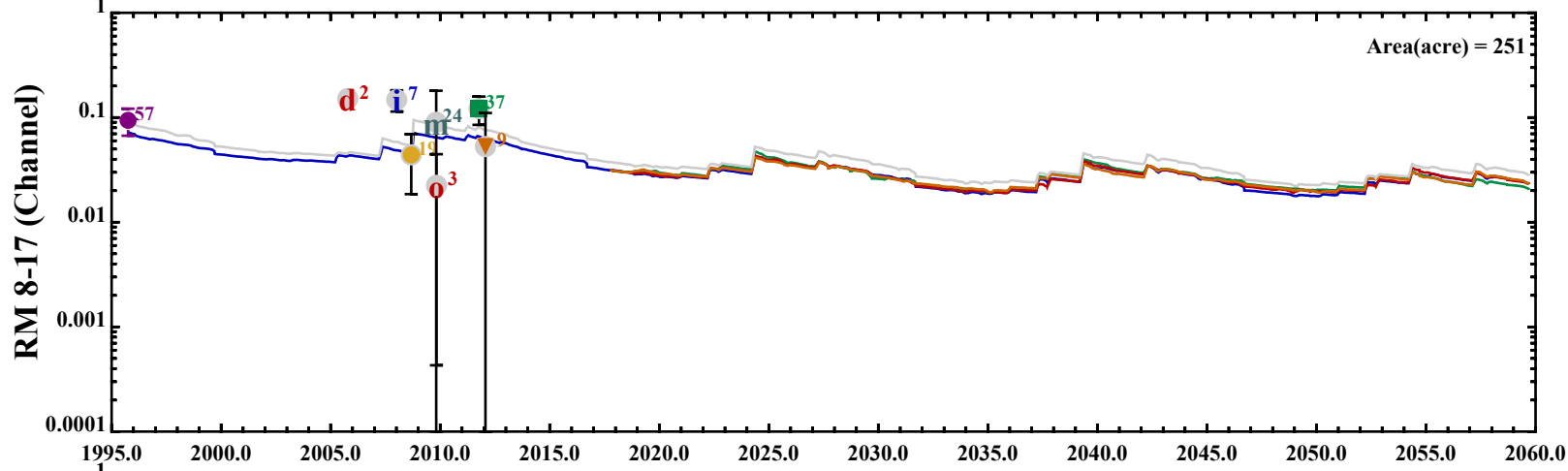
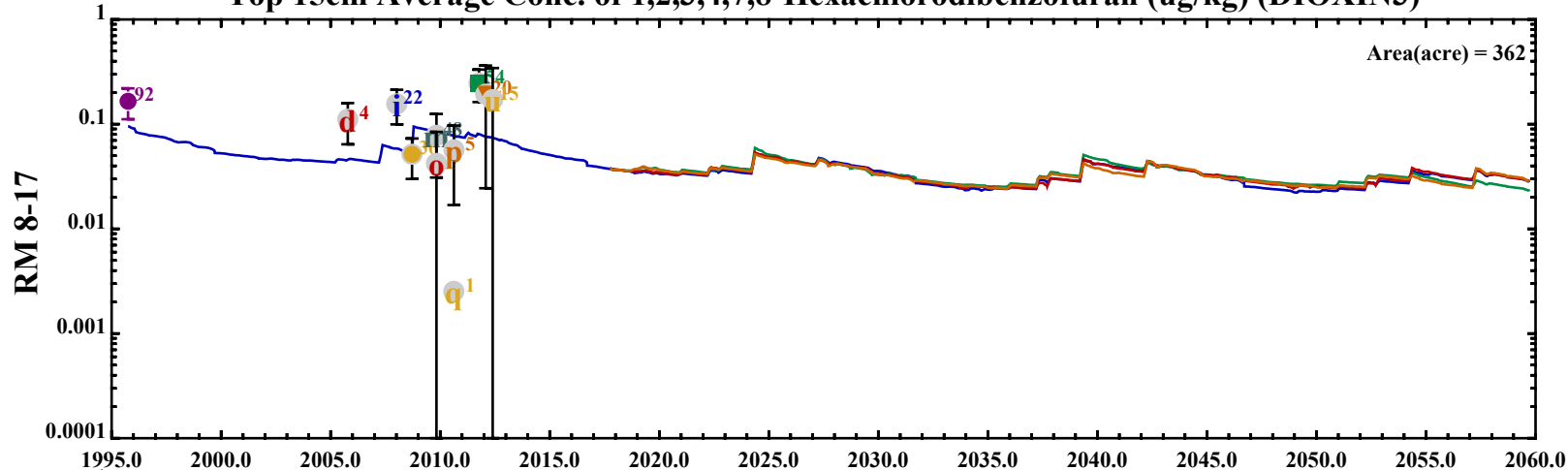
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - REMAP, 1998
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  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
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  - m 2009 CPG Benthic Sediment Study
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  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

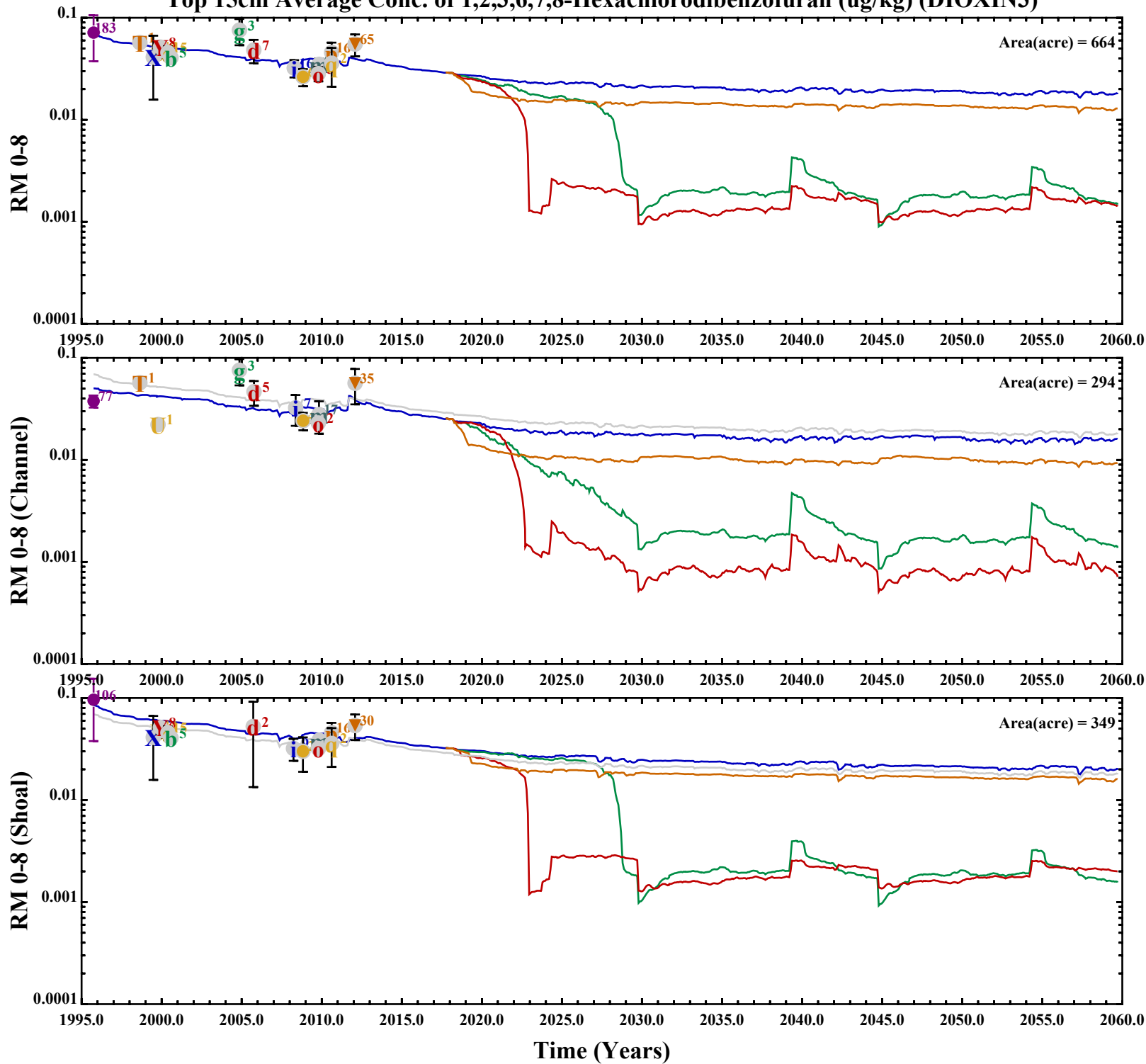
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - Deep Dredging
  - Full Capping
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  - No Action Gradient IC, Reach Scale Up (Full Reach)

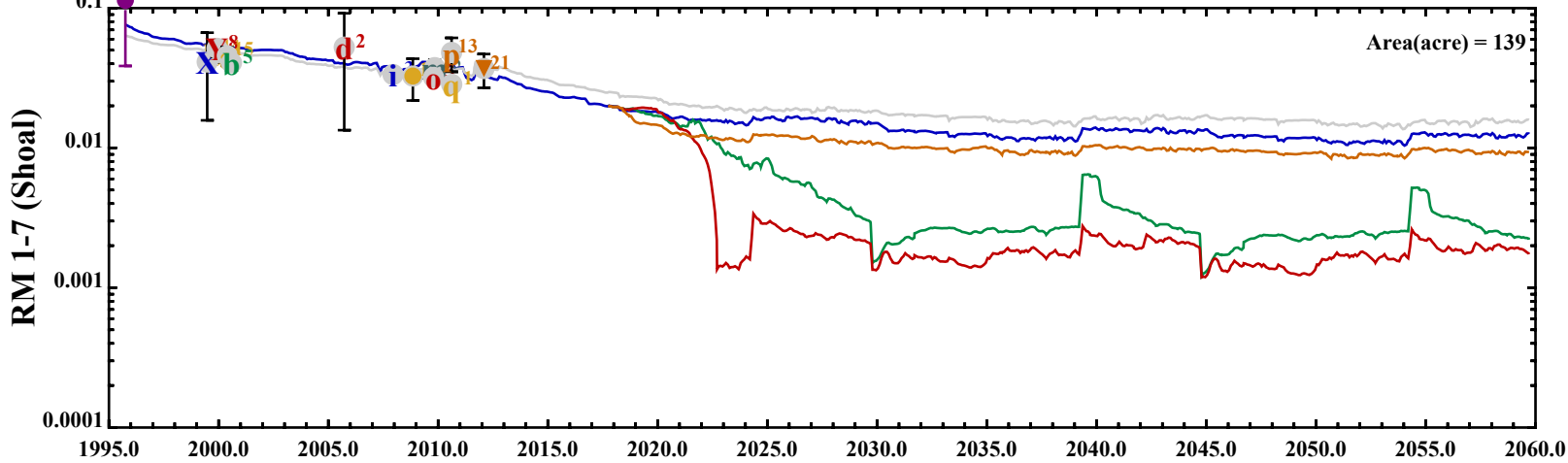
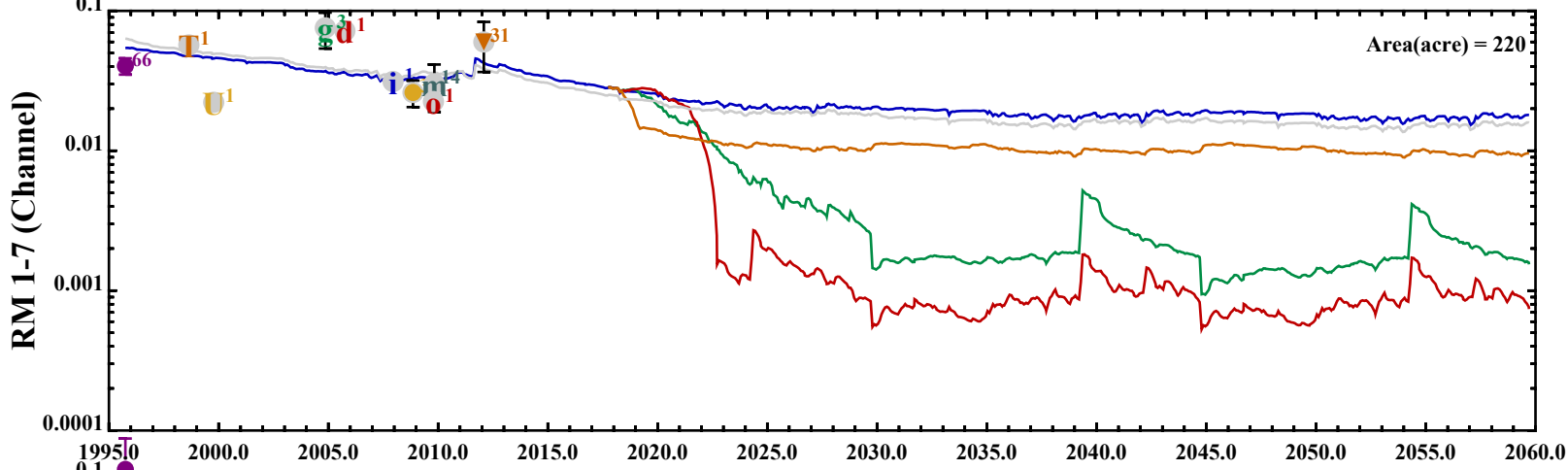
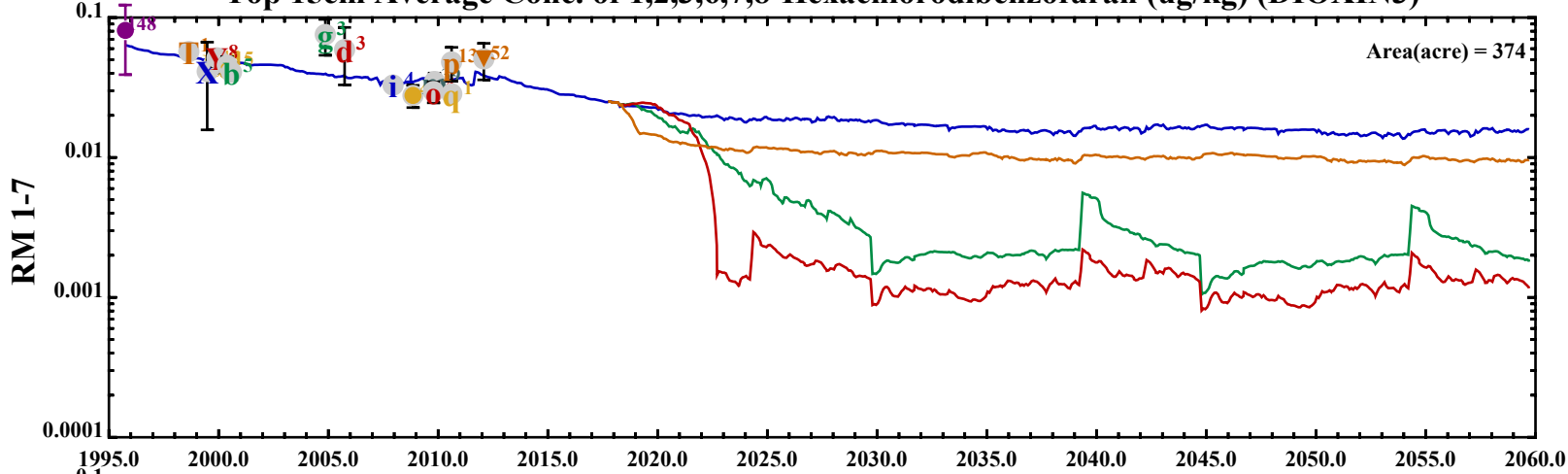
Time (Years)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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  - Full Capping
  - Focused Capping
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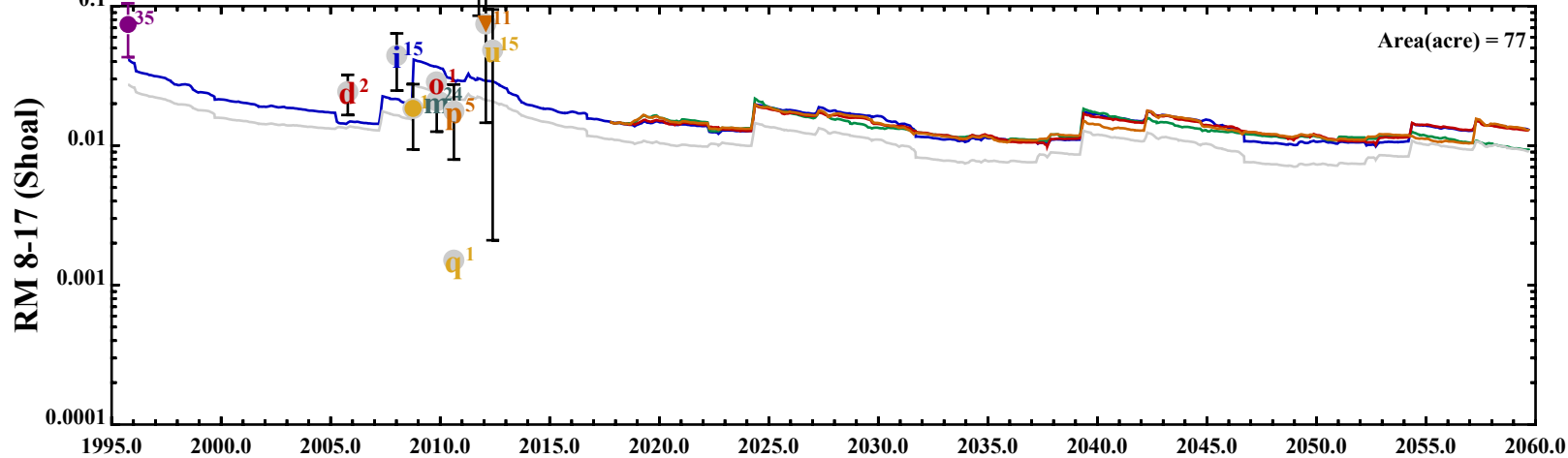
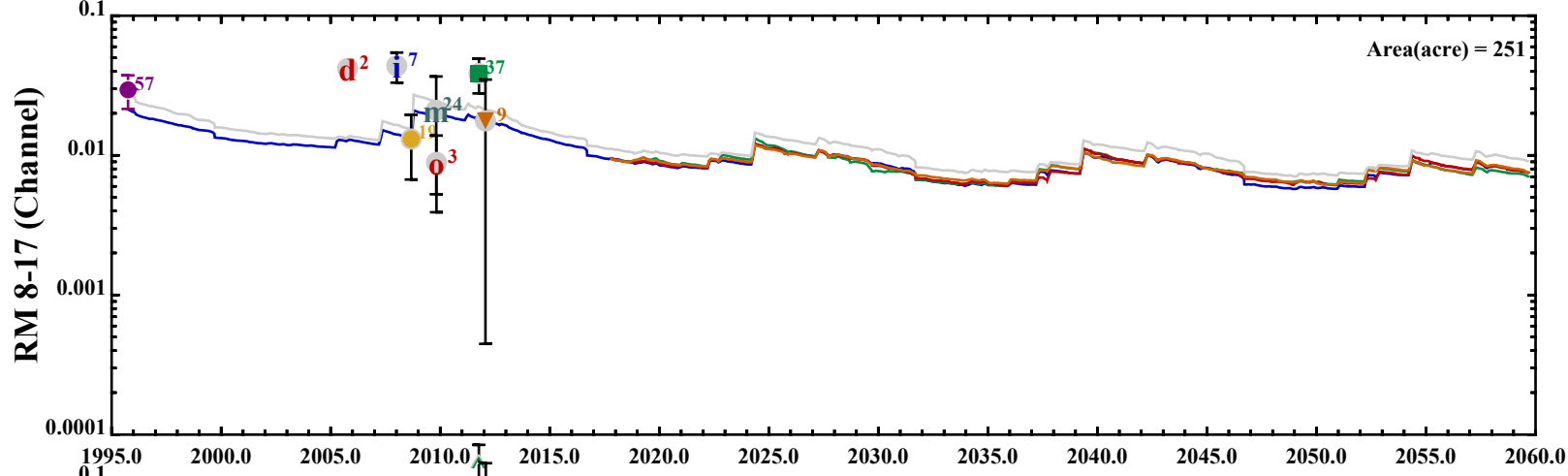
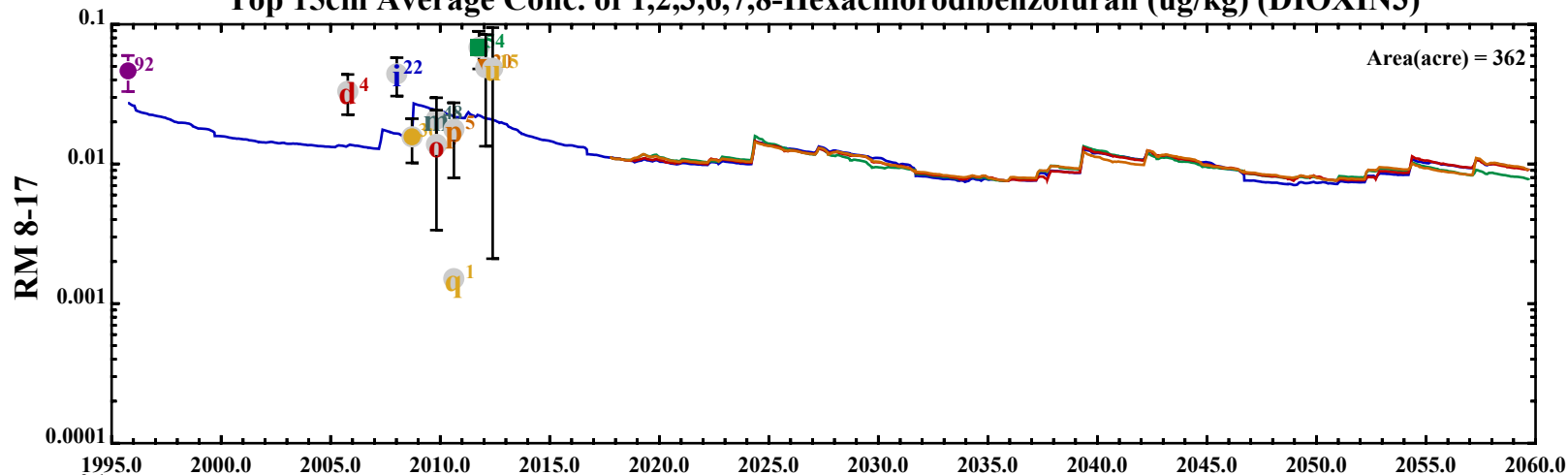
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

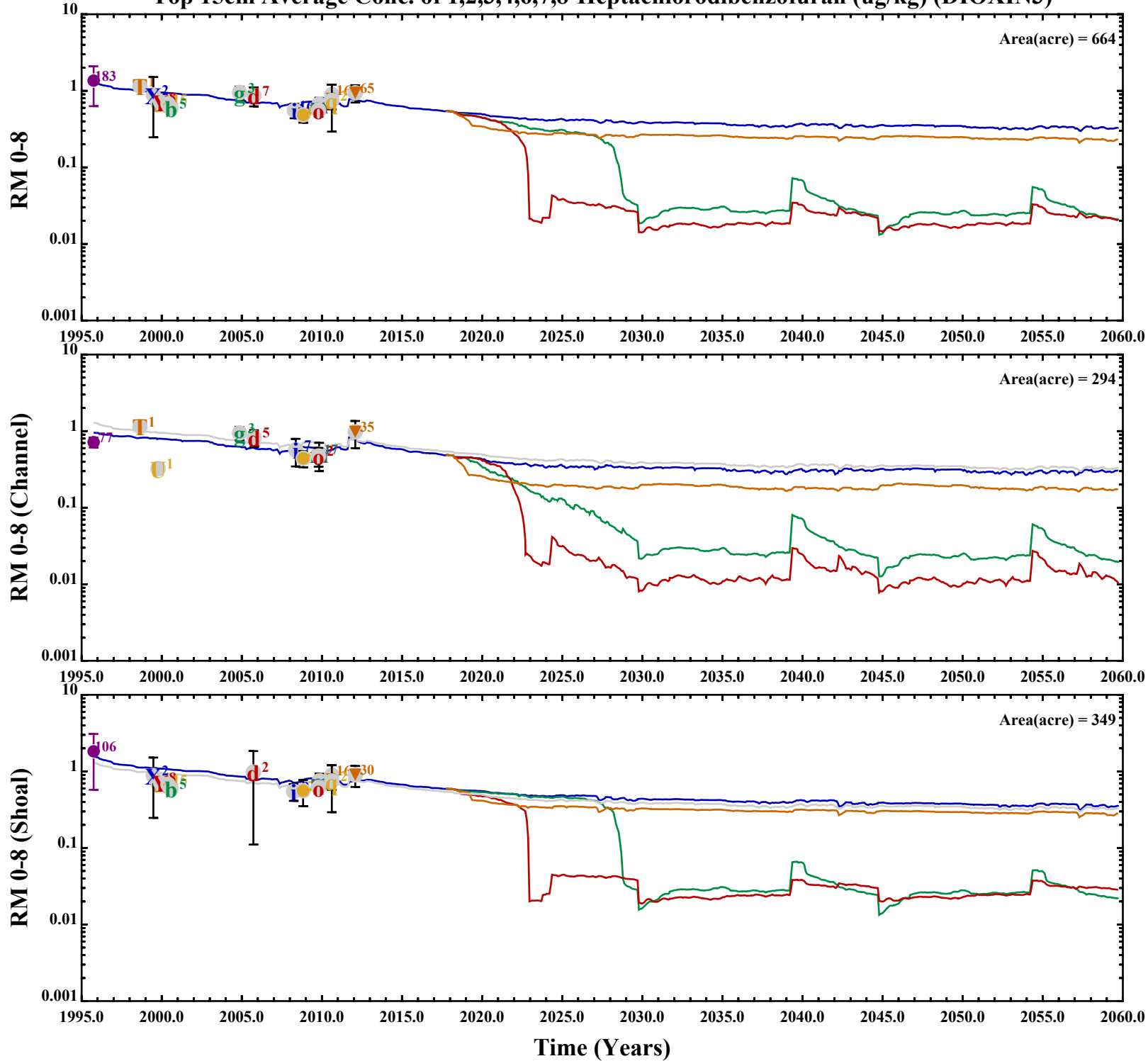
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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  - NOAA NS&T Hudson-Raritan Phase II, 1993
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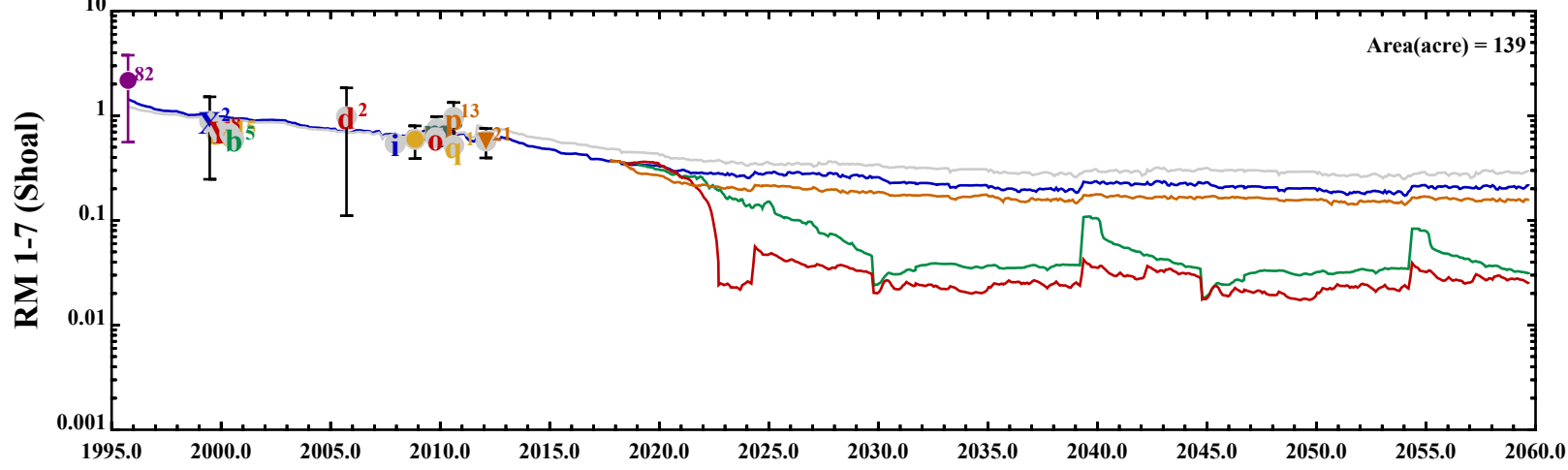
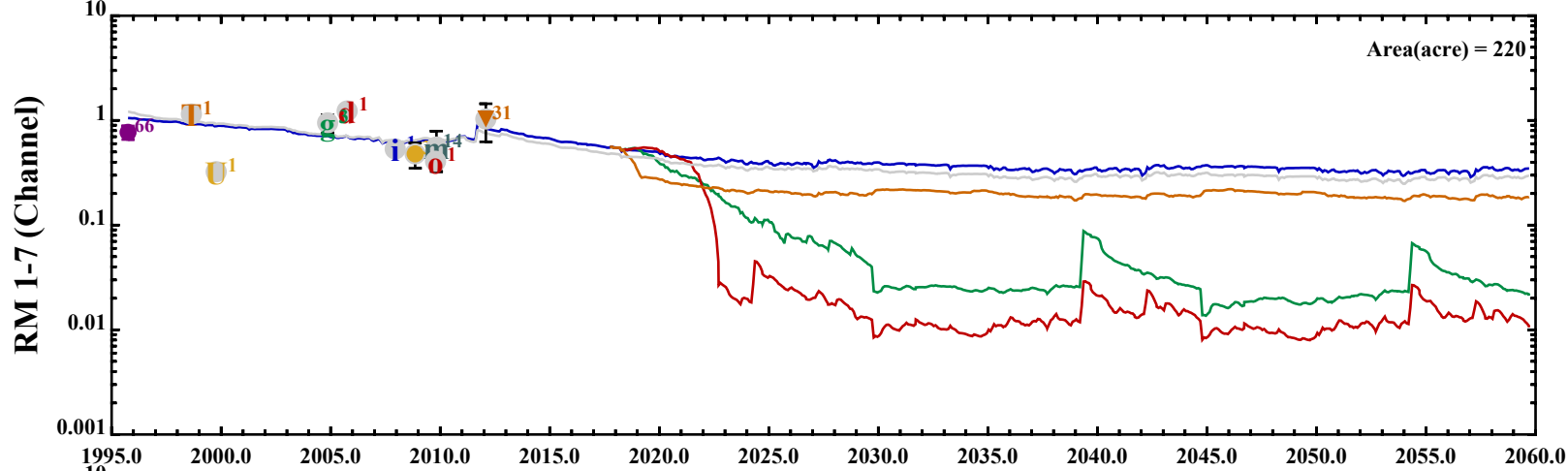
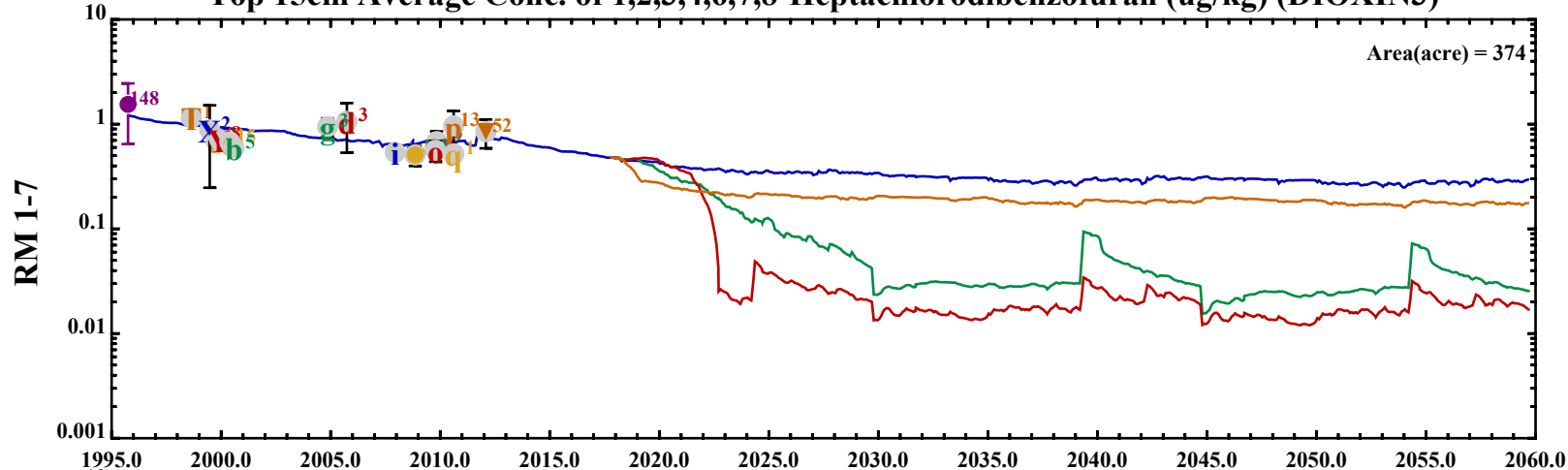
Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
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  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

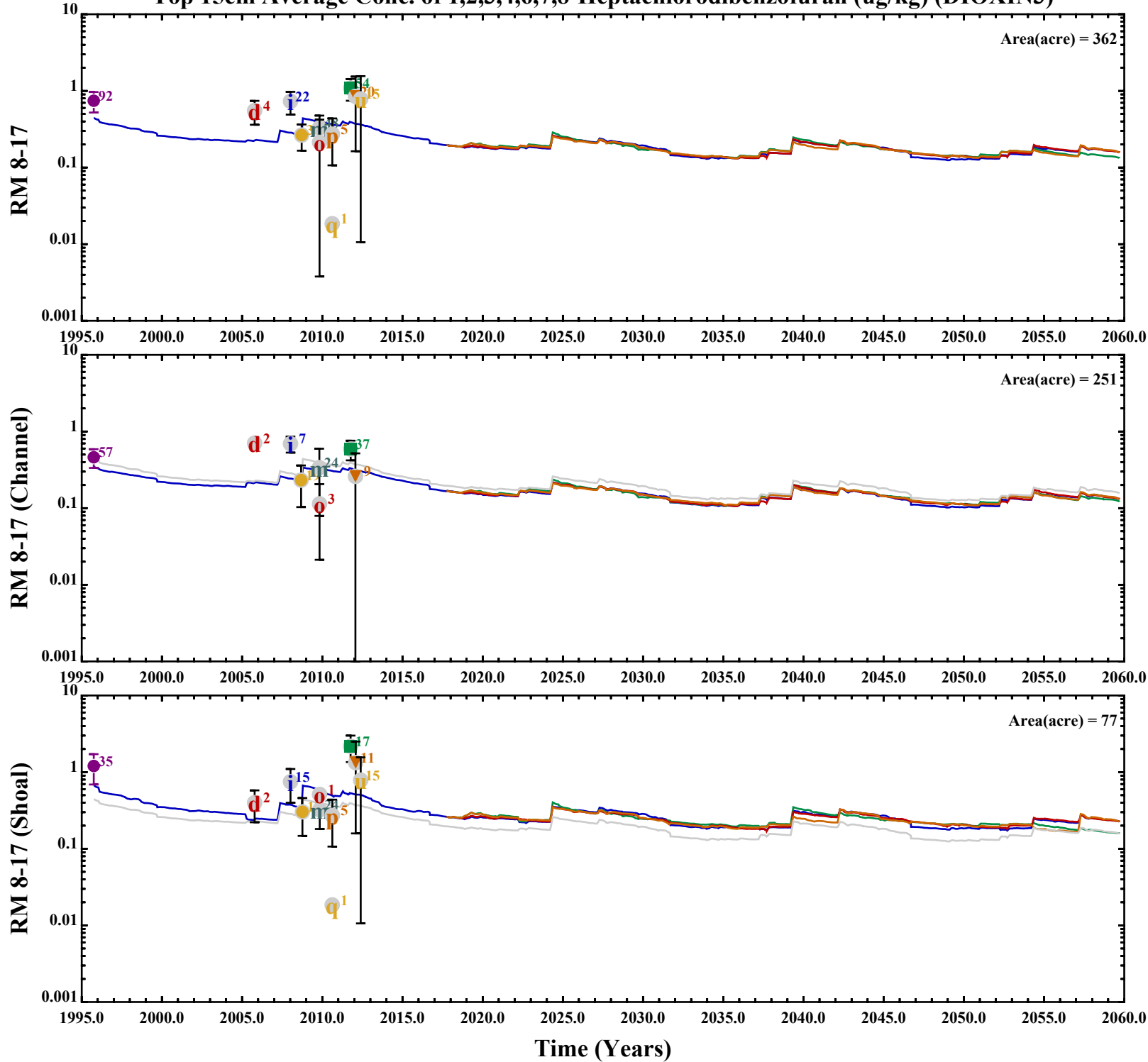
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
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  - Focused Capping
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Time (Years)

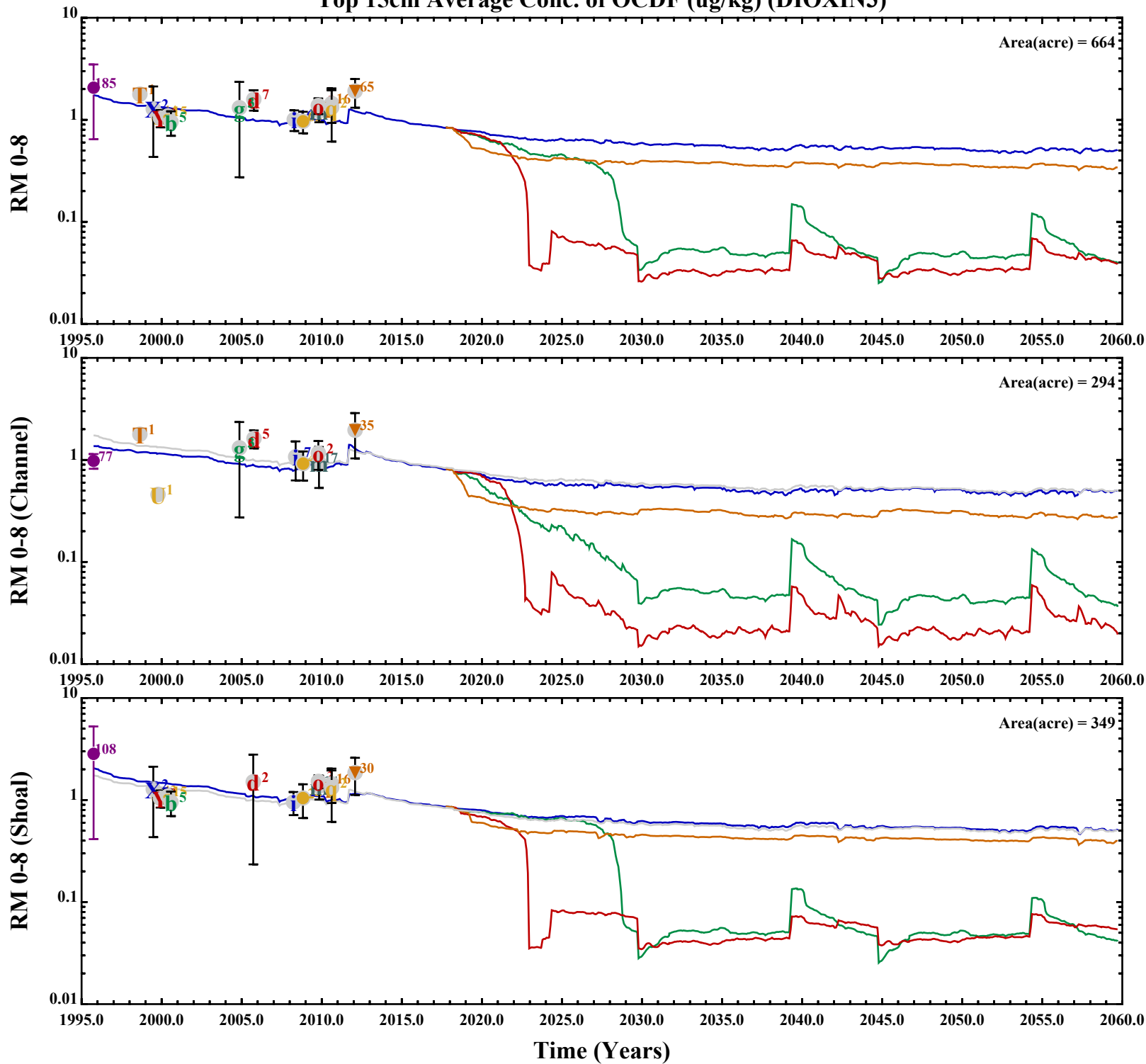
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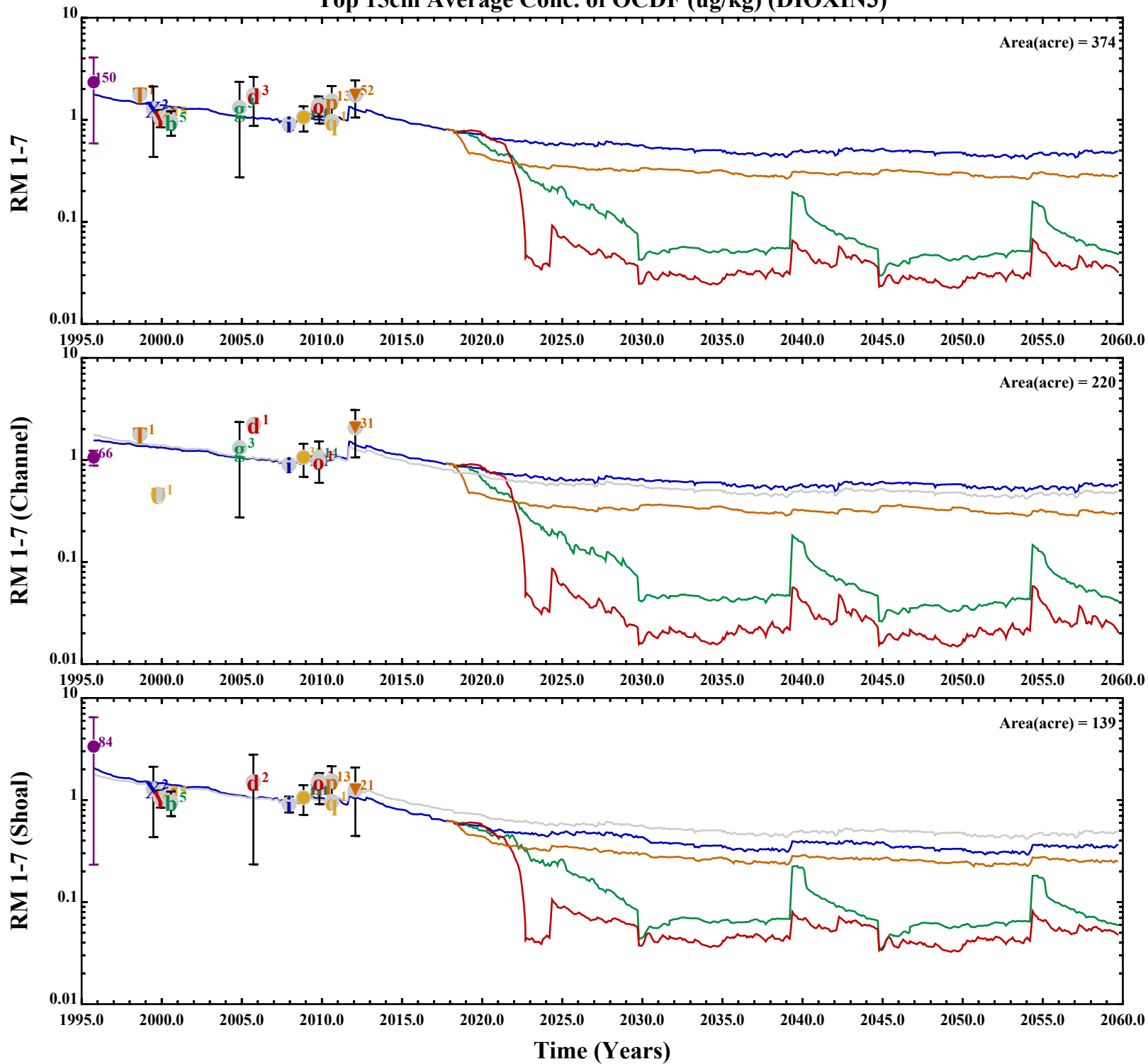


# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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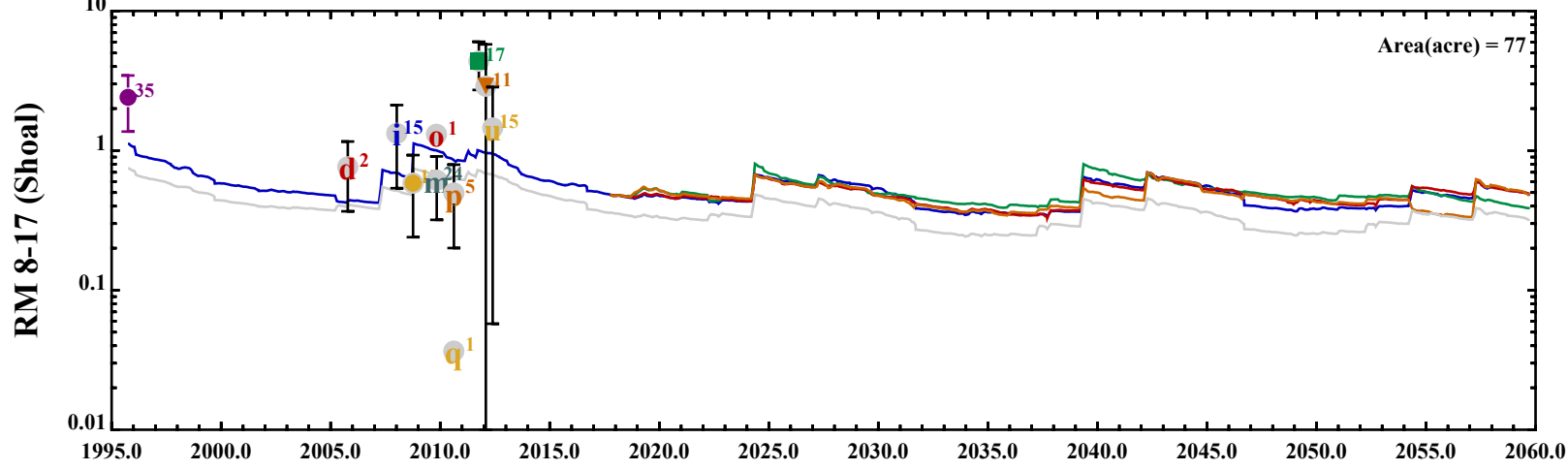
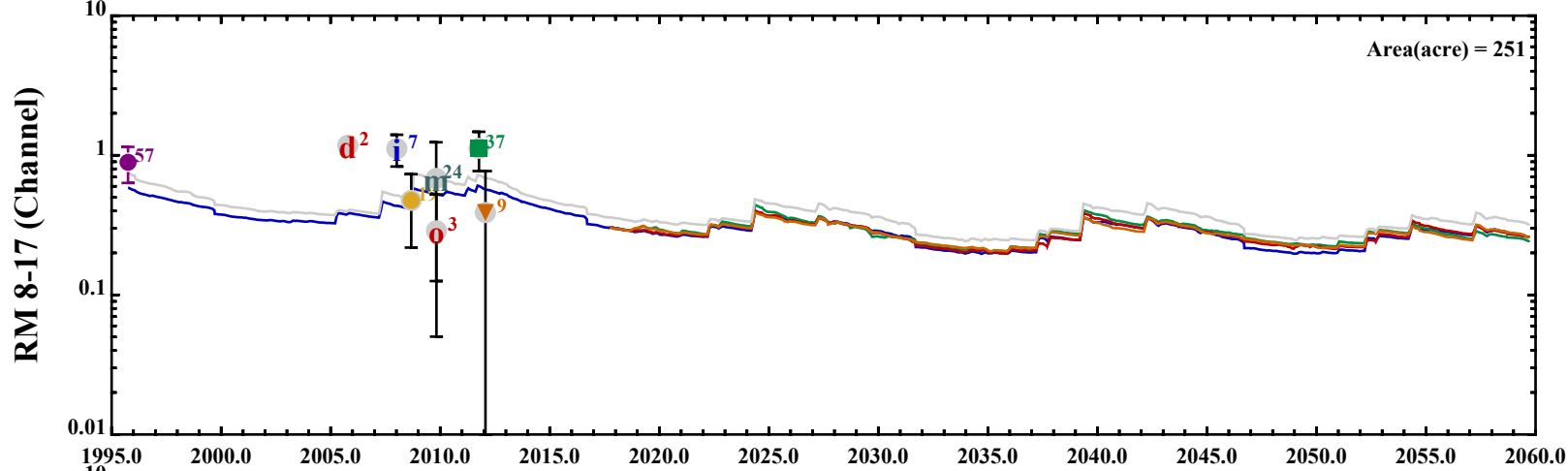
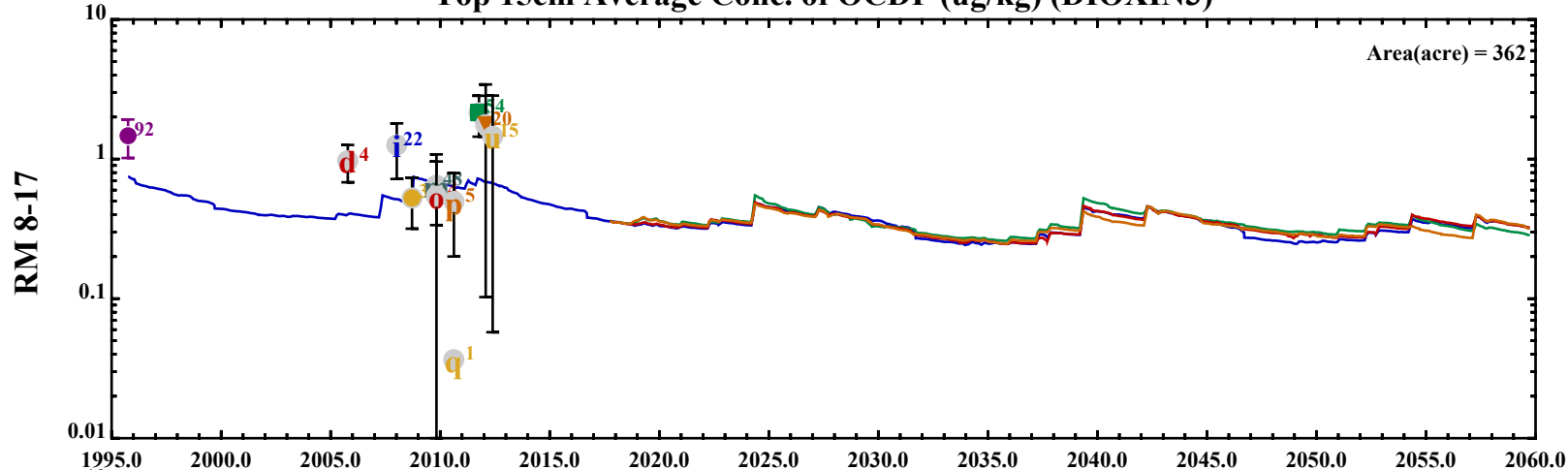
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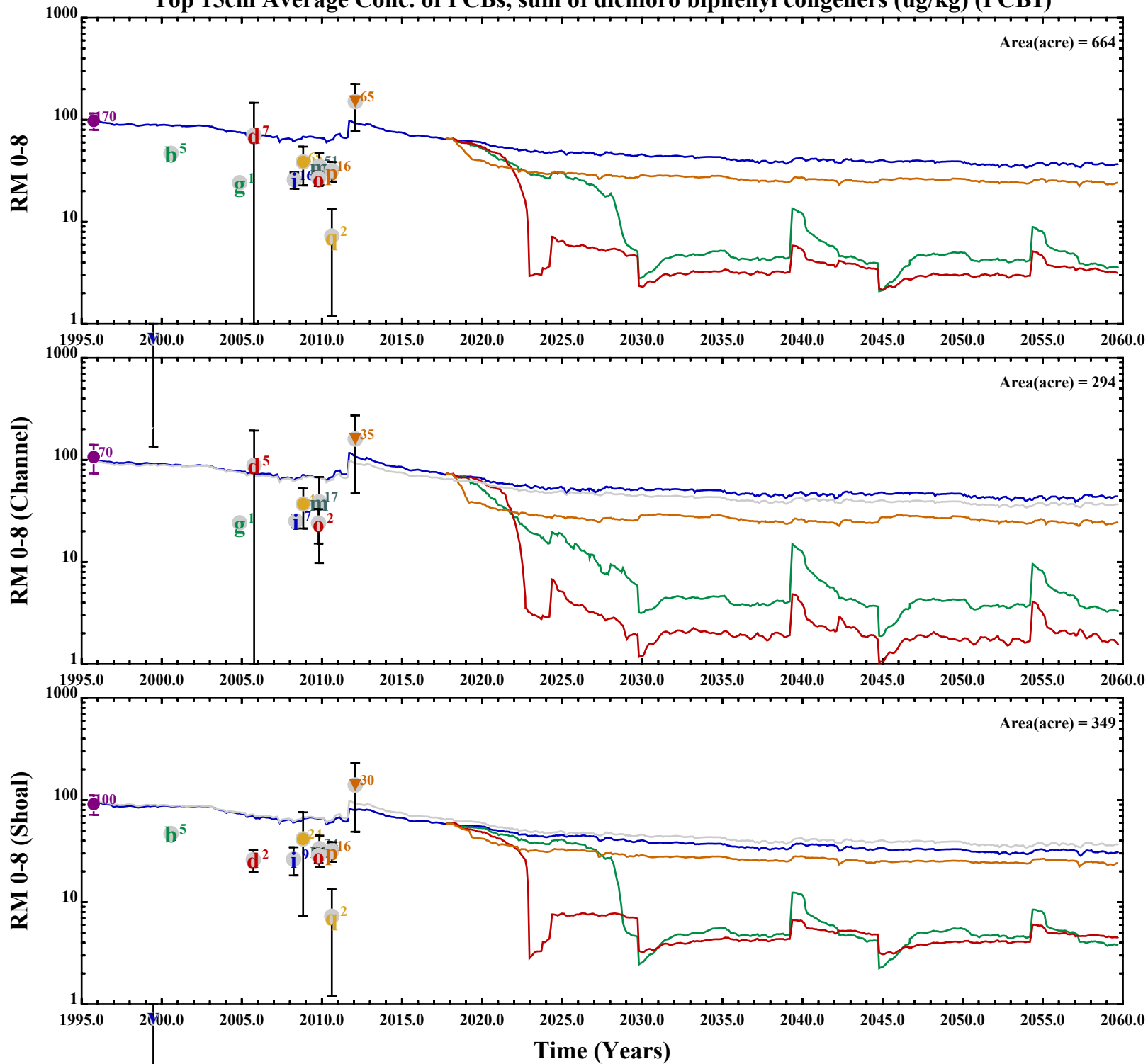
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

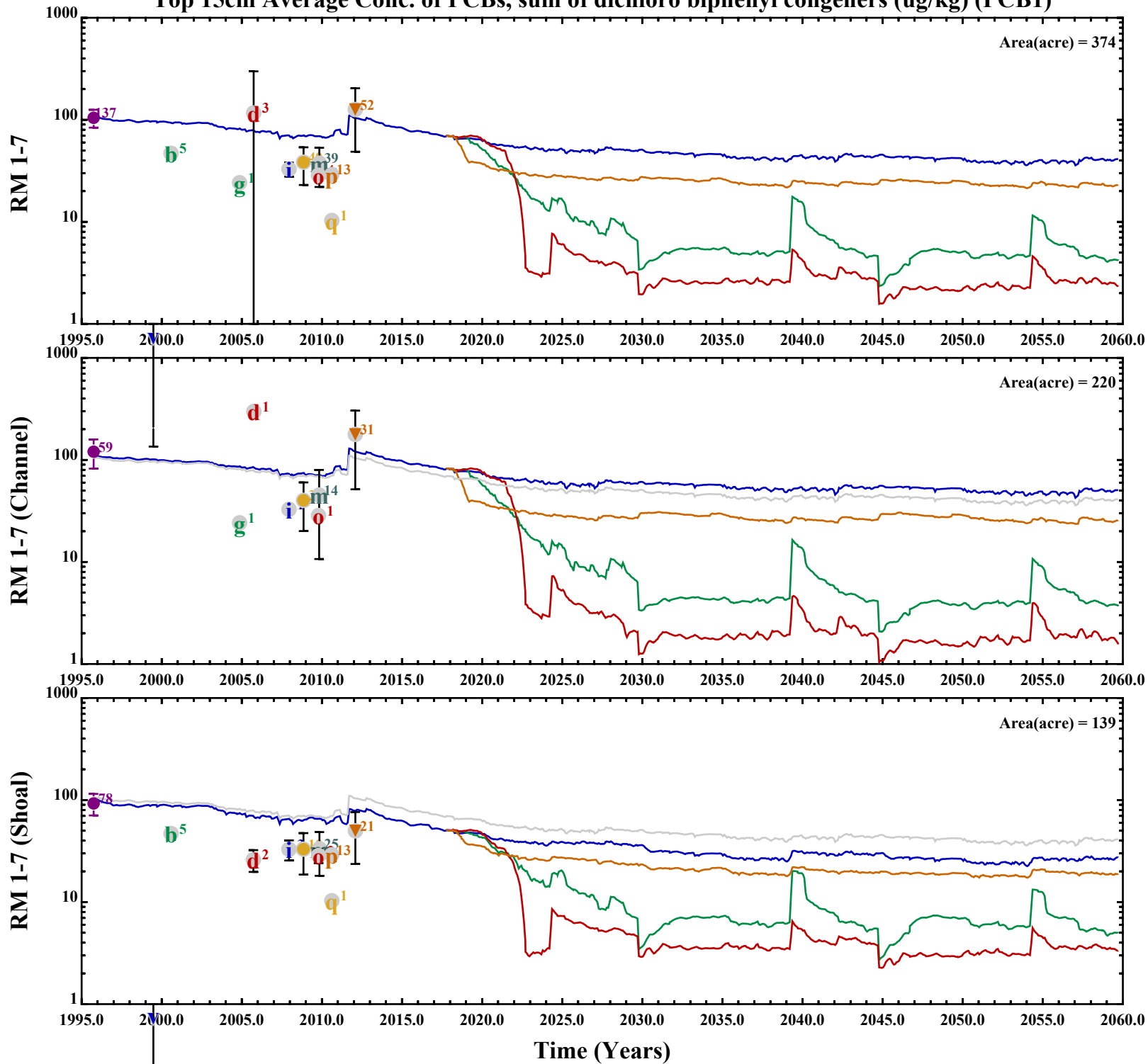
Time (Years)

# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)

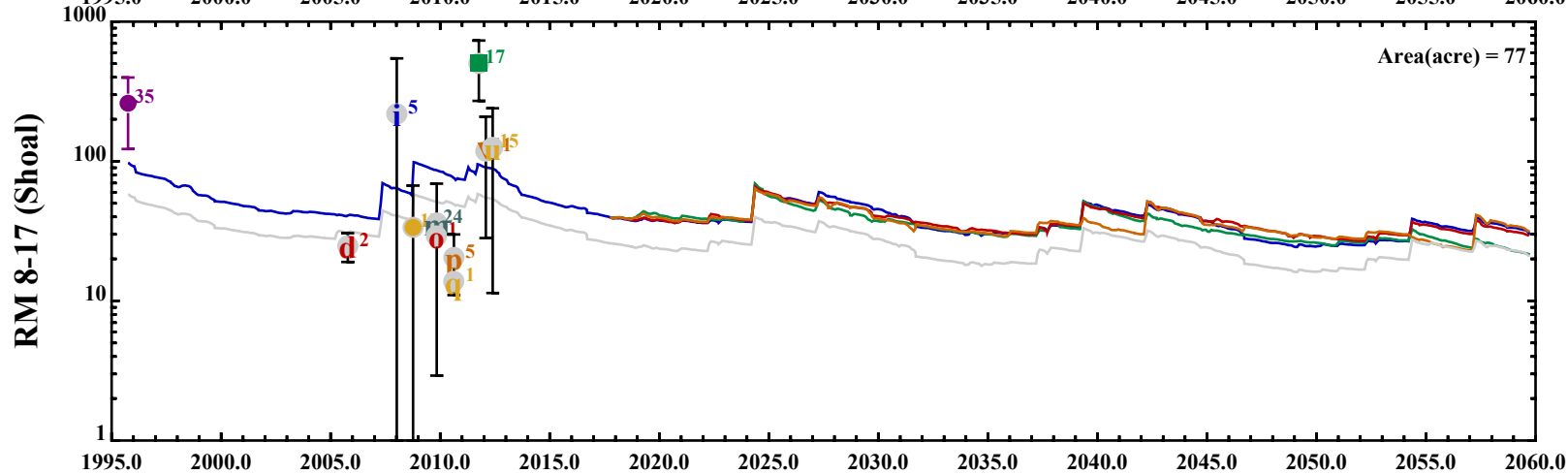
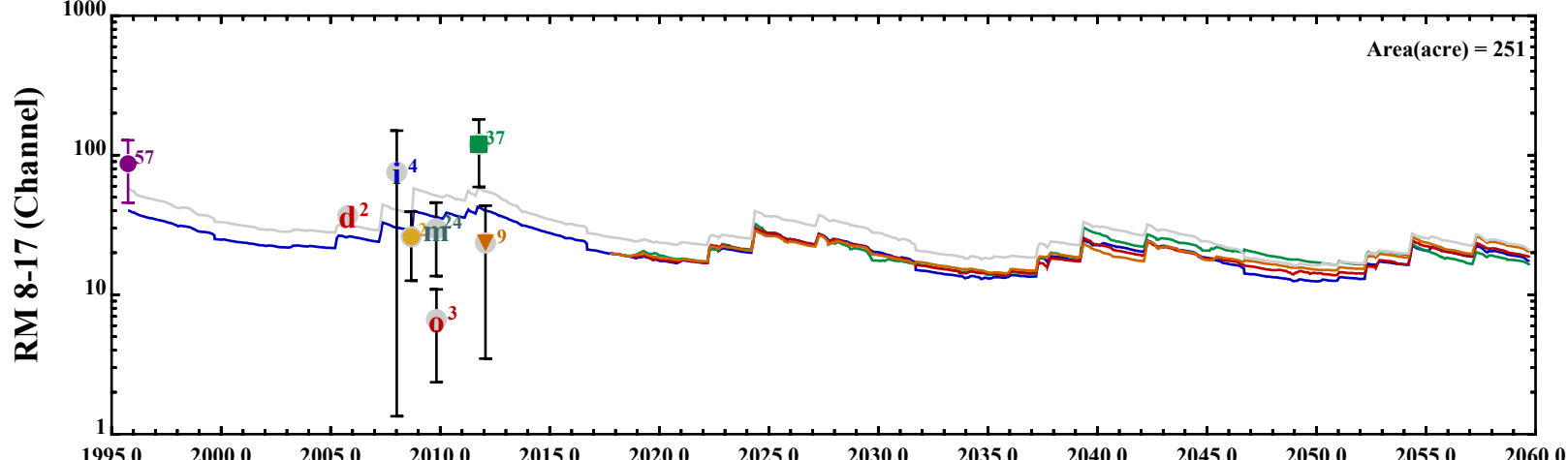
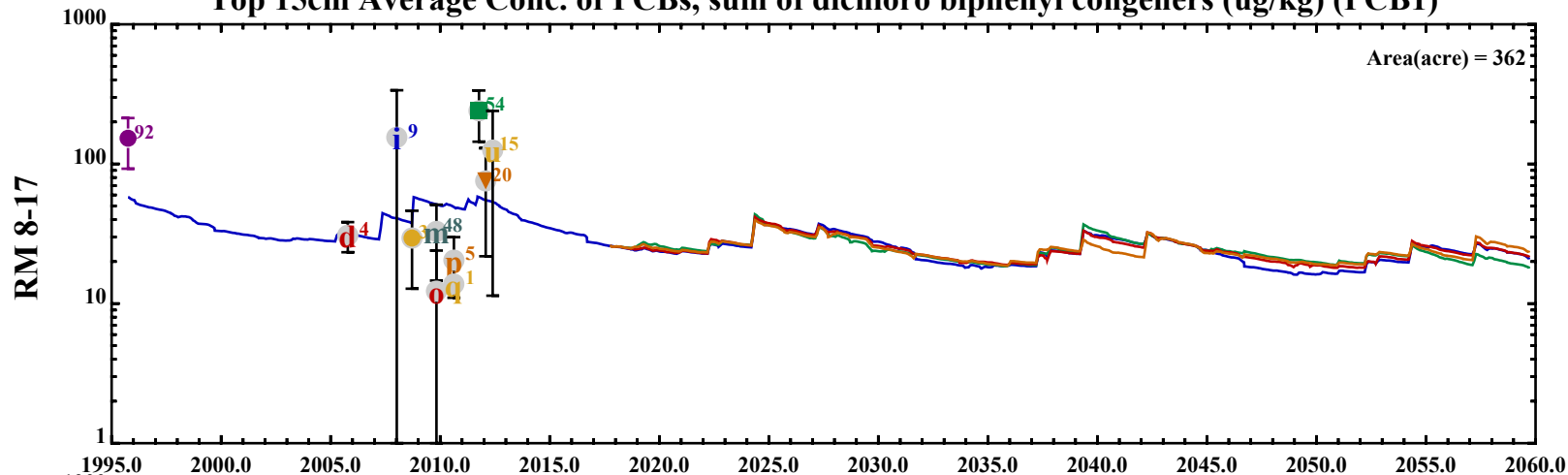


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  - A 1990 Surficial Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



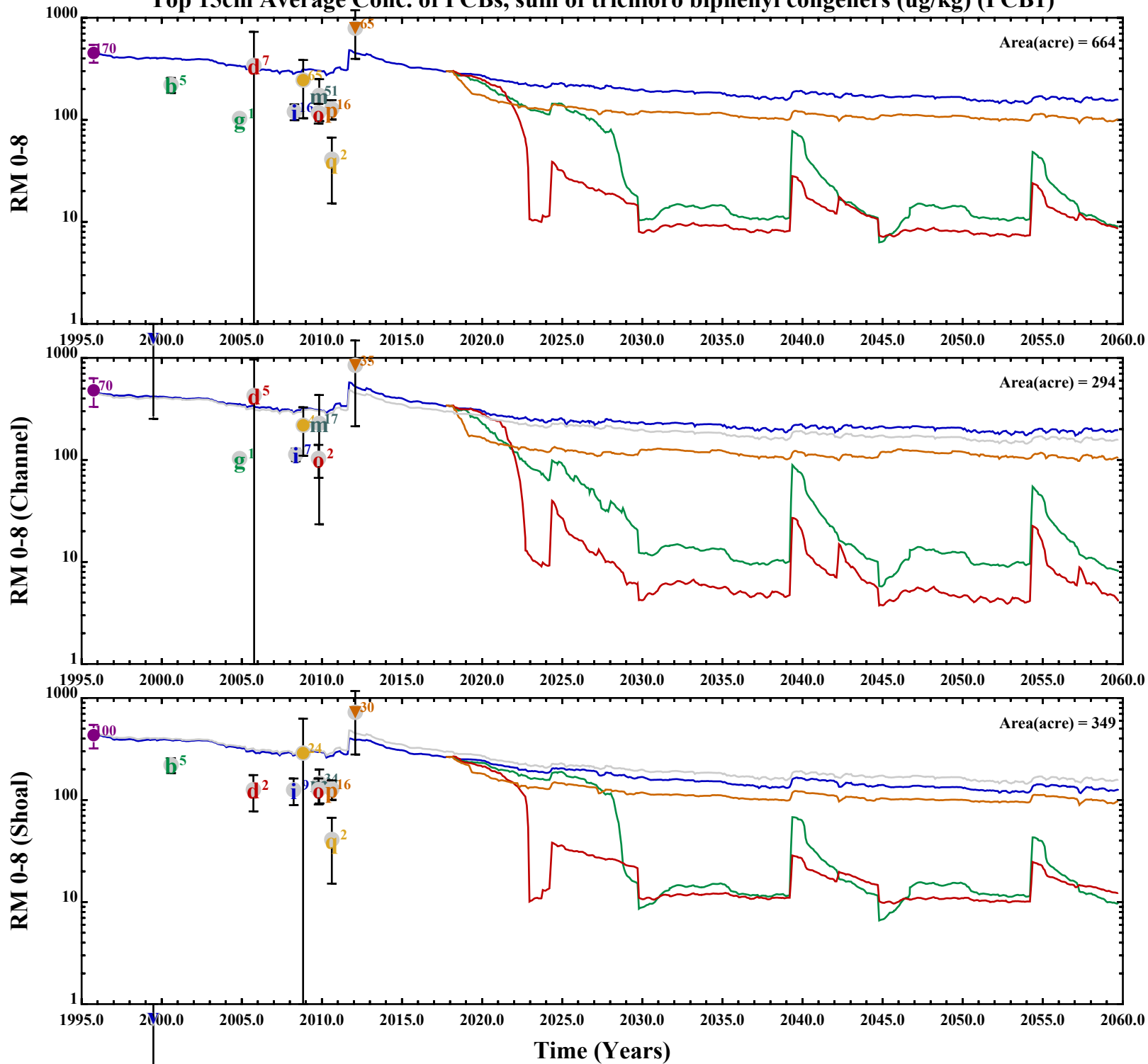
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

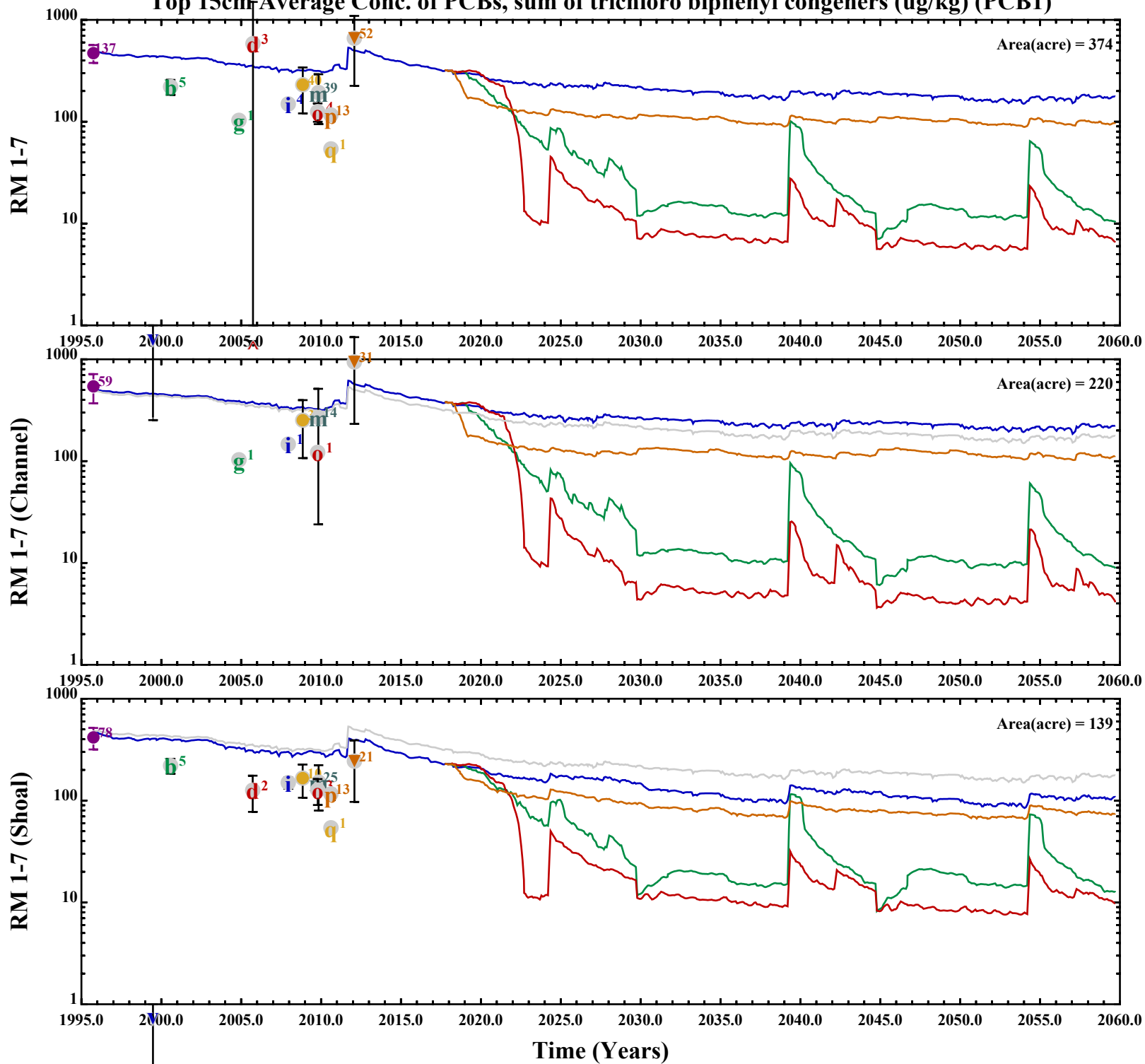
Time (Years)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



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# Top 15cm-Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

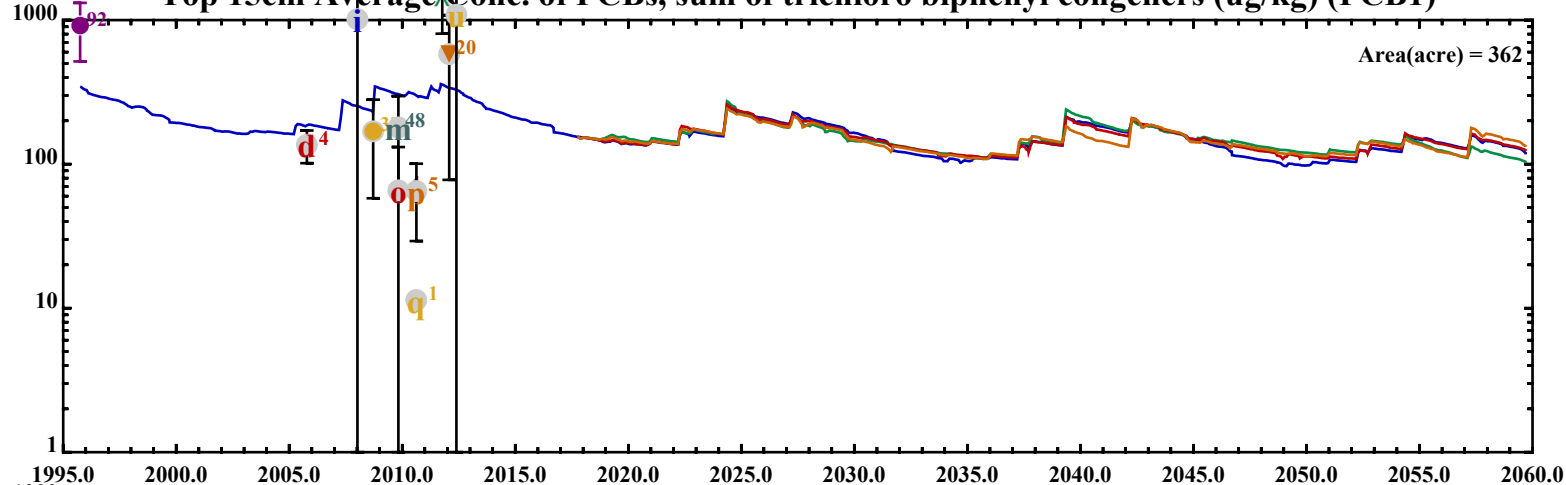


- Data used for ICs
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  - J REMAP, 1993
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  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

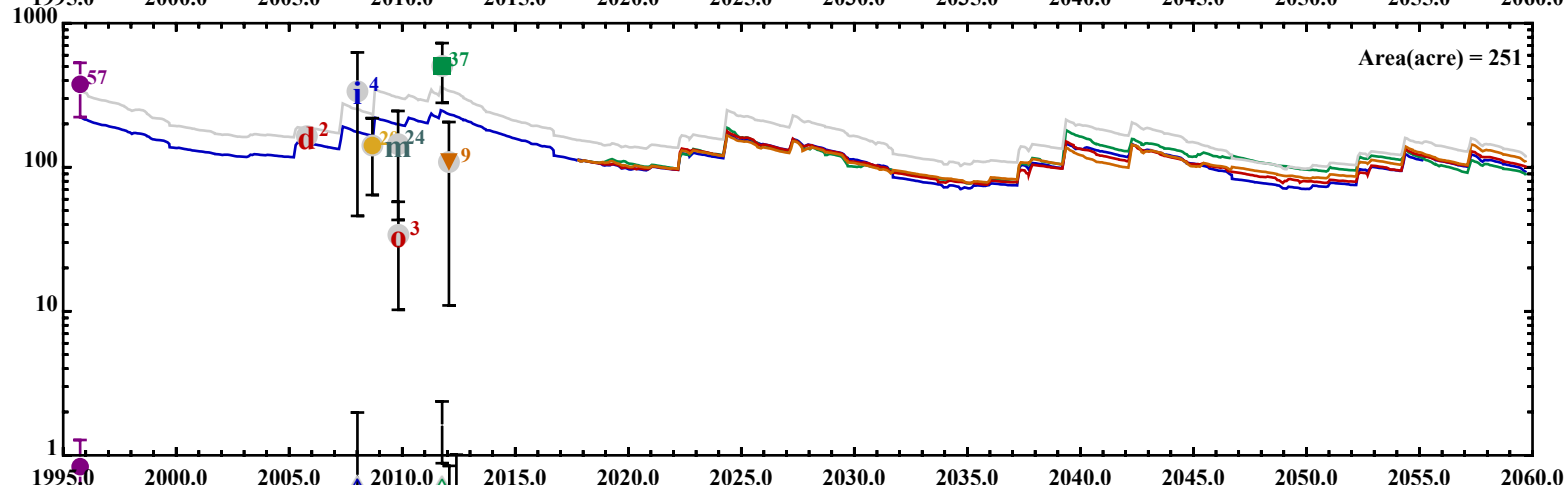


# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

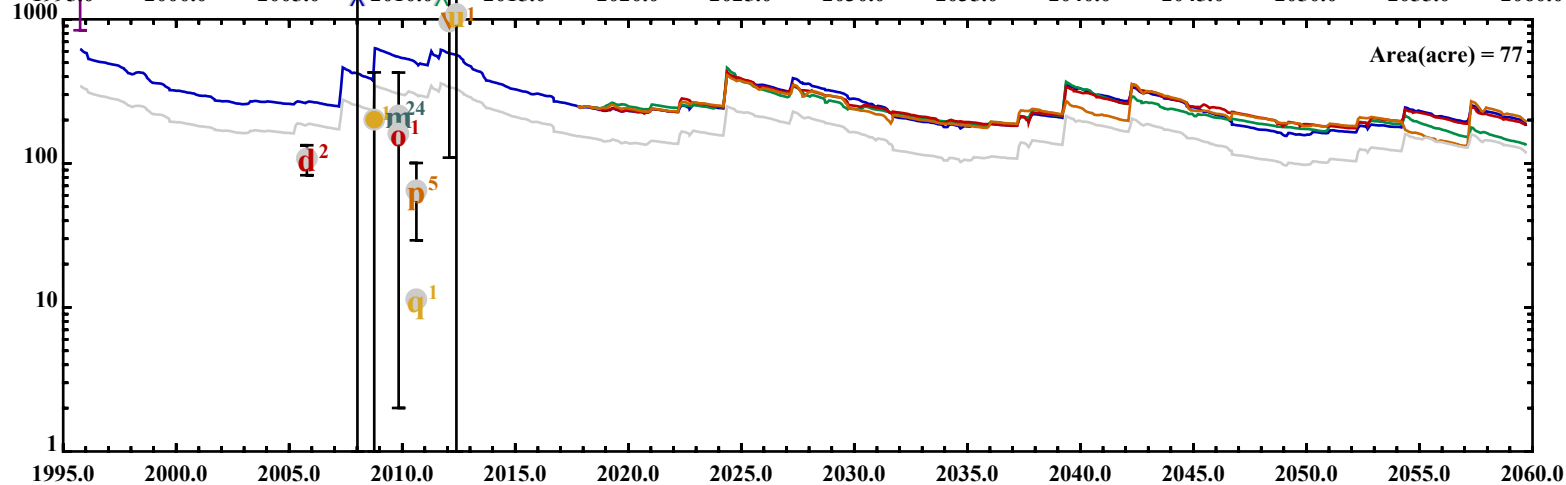
RM 8-17



RM 8-17 (Channel)



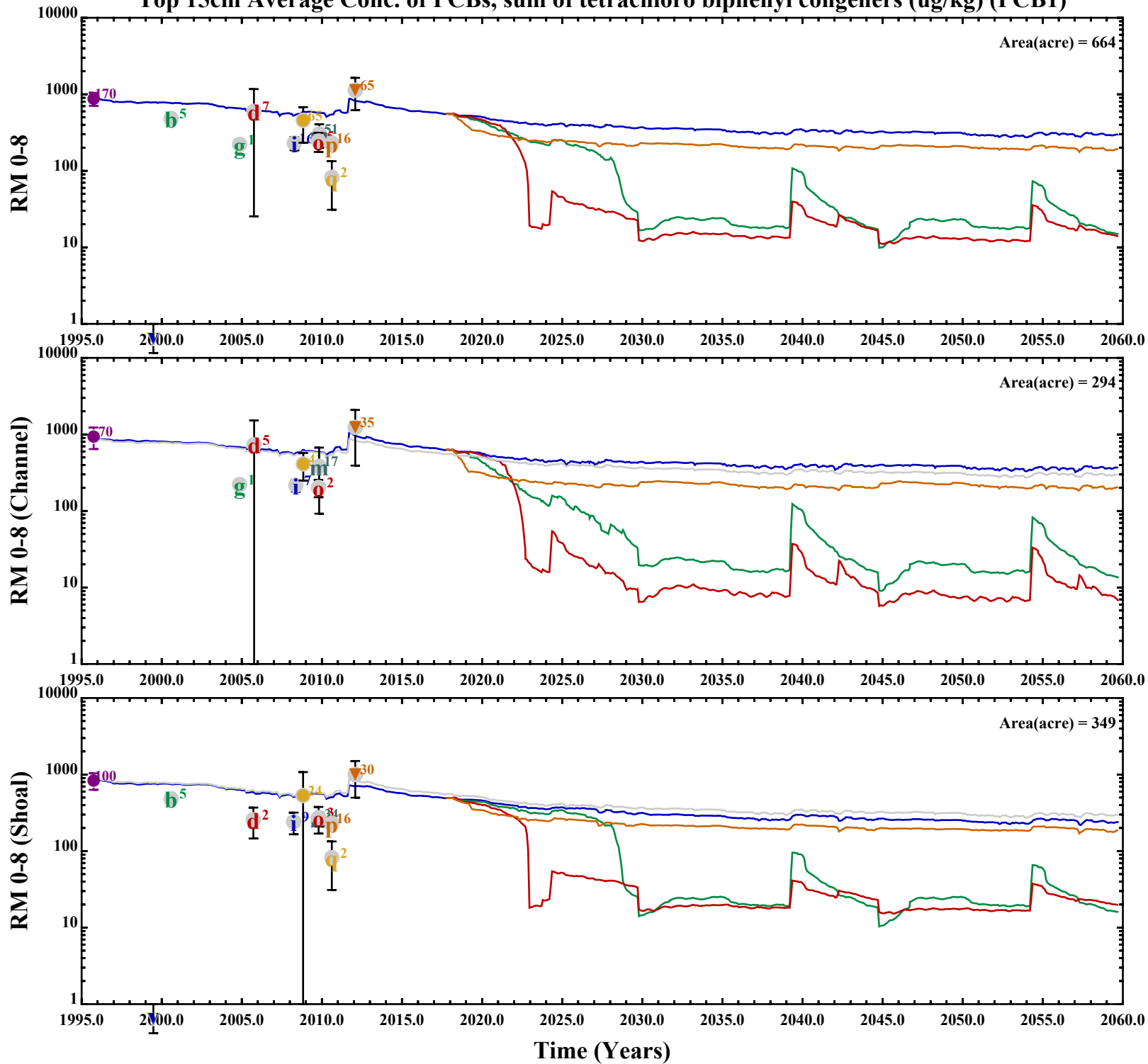
RM 8-17 (Shoal)



Time (Years)

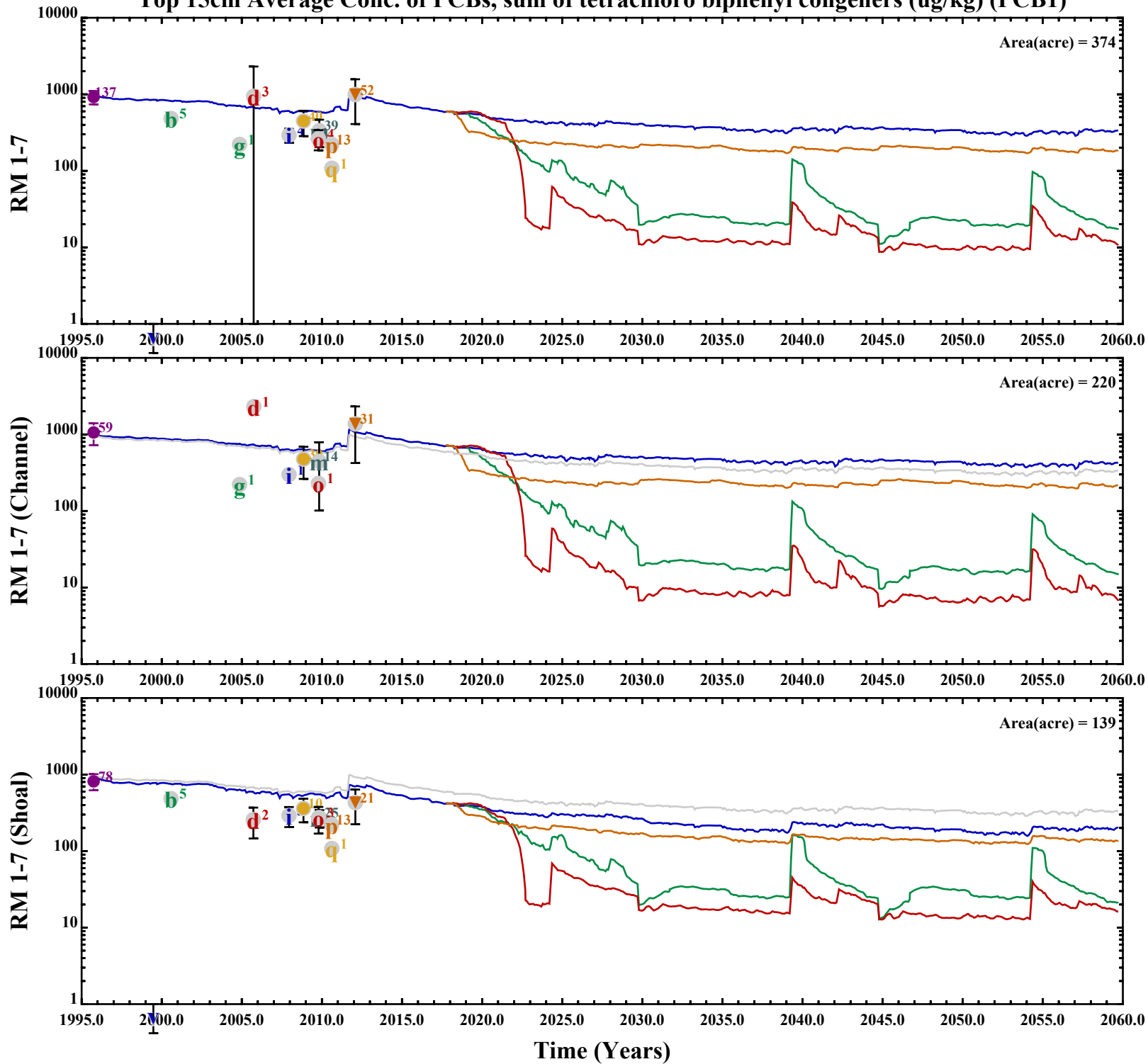
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



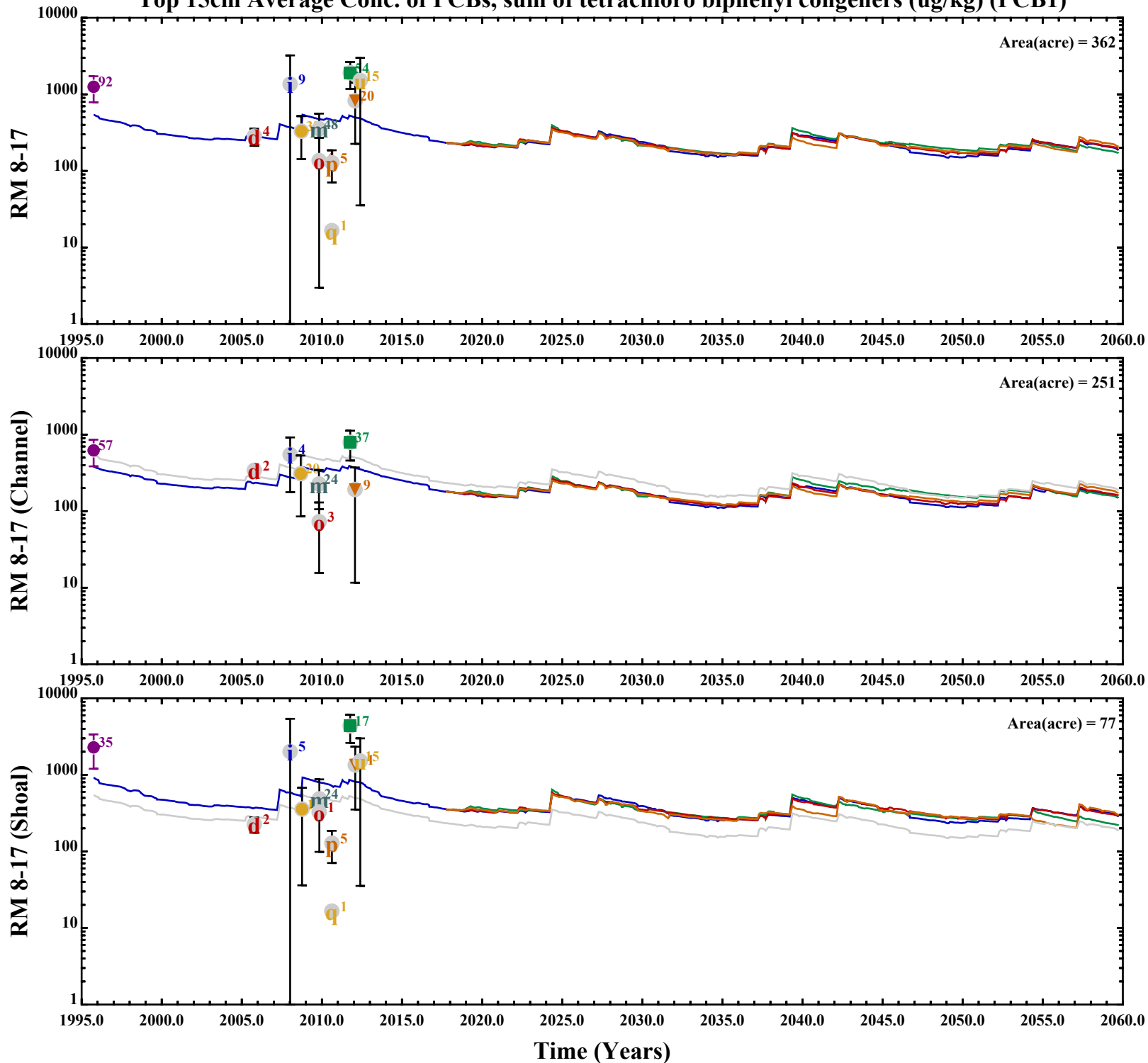
- Data used for ICs
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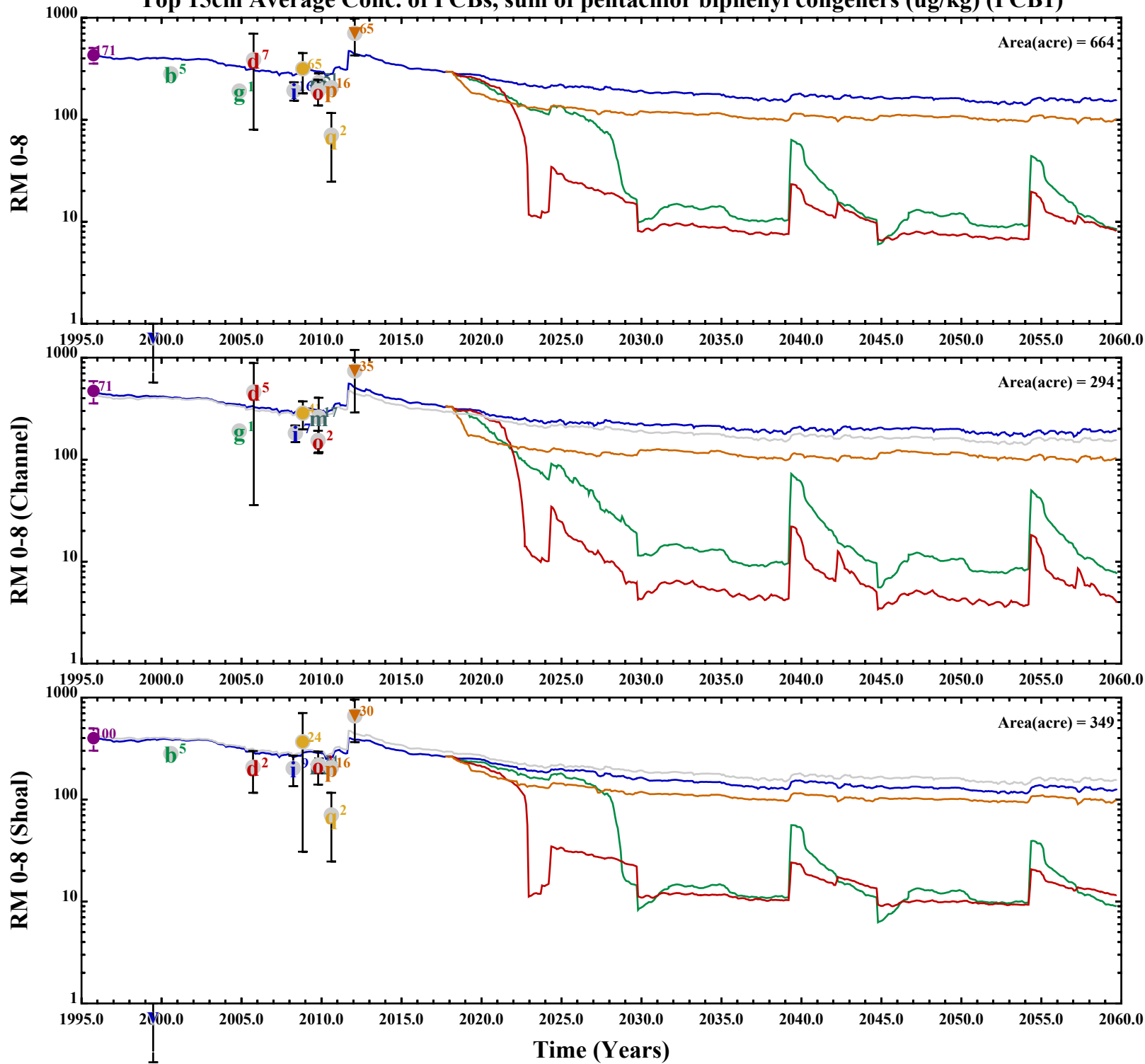
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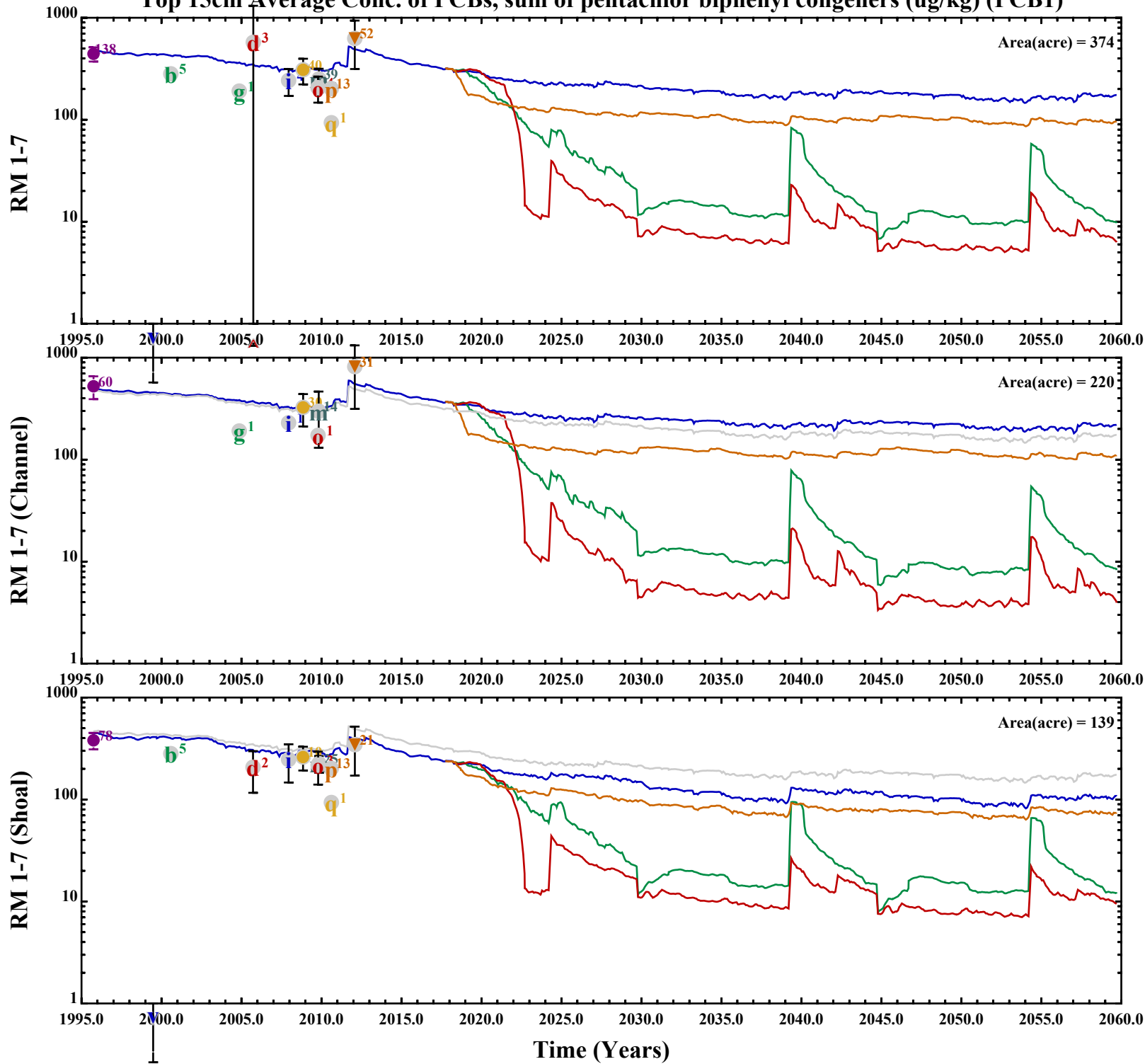
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# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



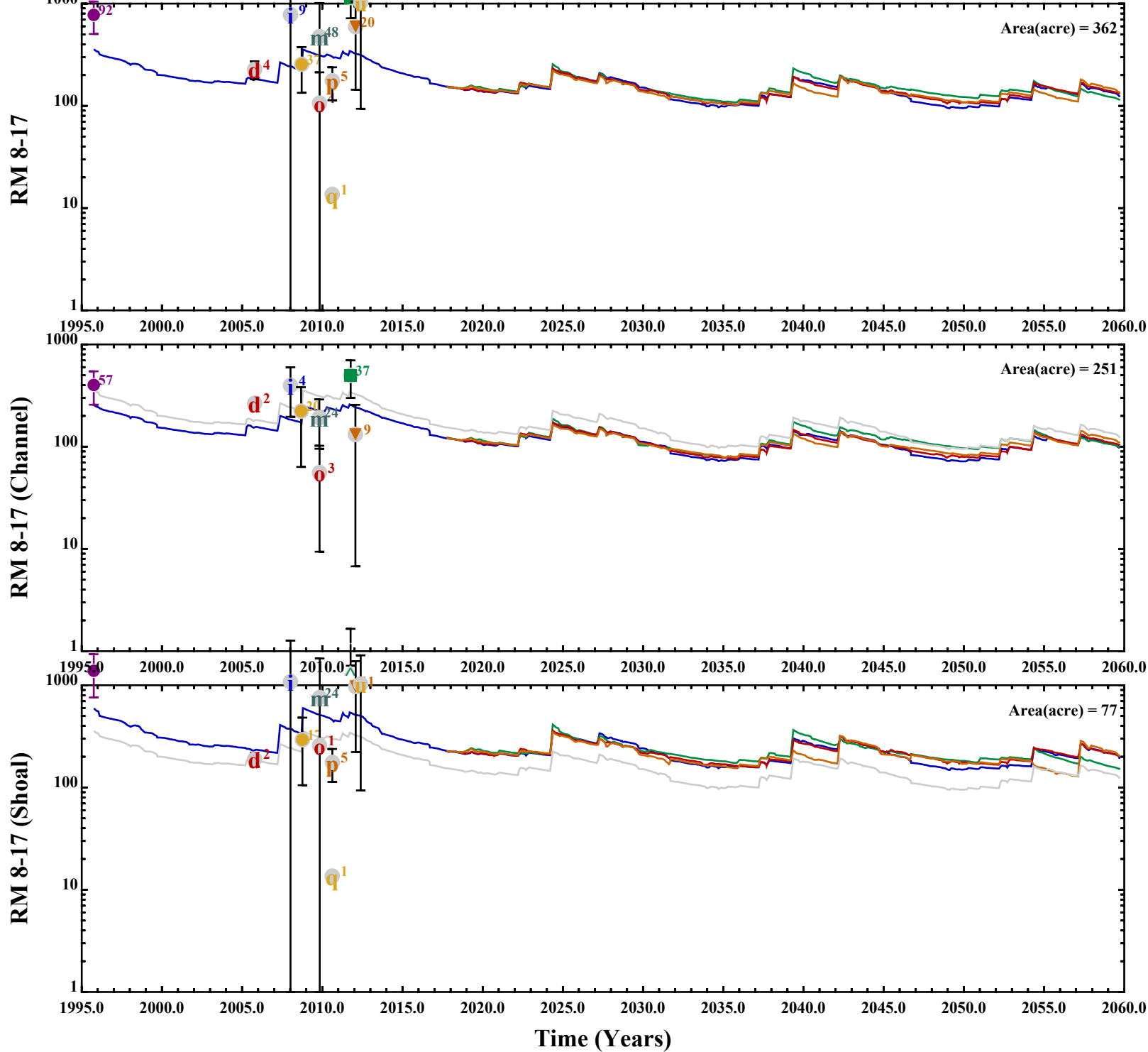
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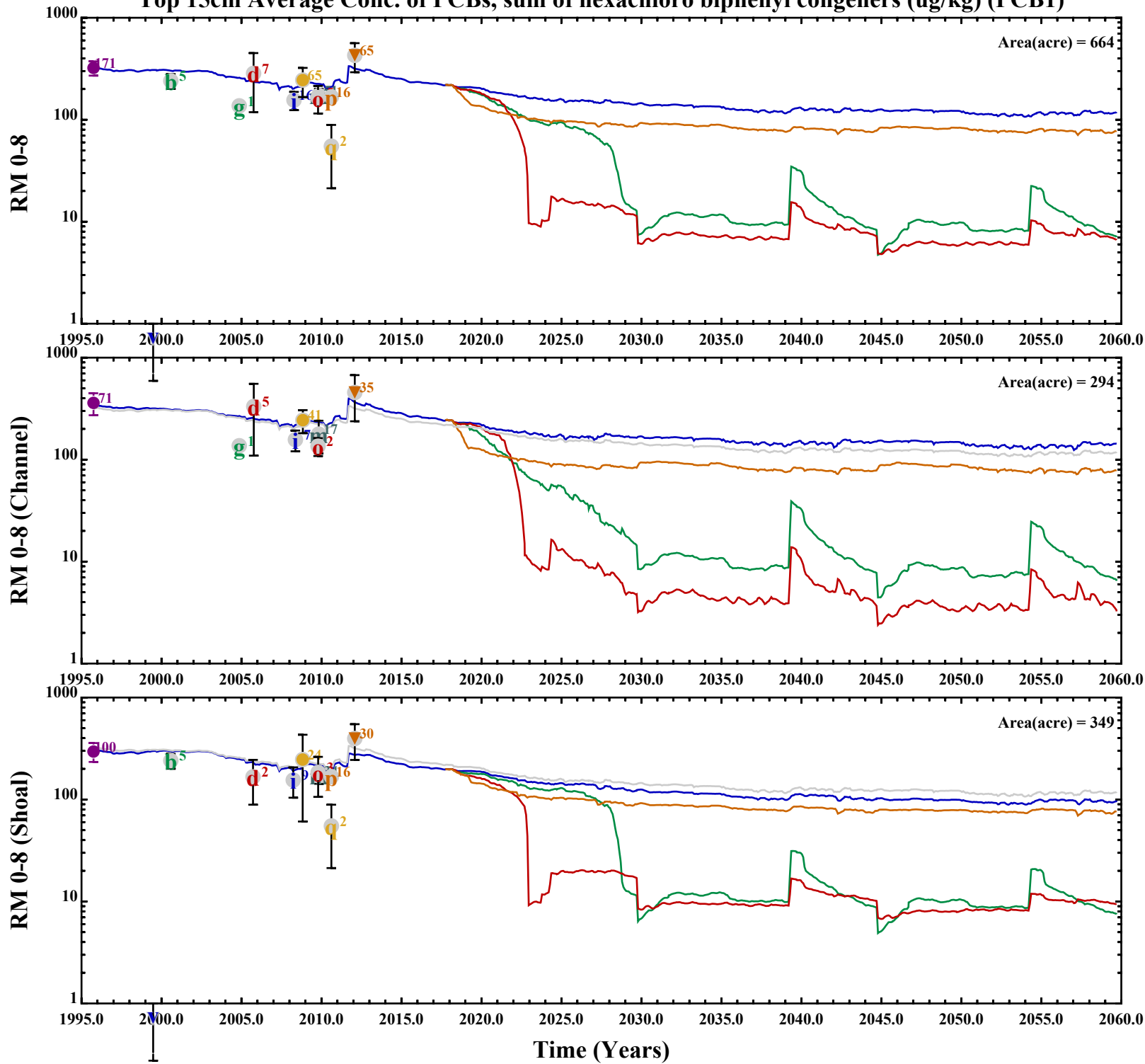
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  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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  - i 2007 USEPA-MPI-EMBM Sediment Samples
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  - m 2009 CPG Benthic Sediment Study
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  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
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  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

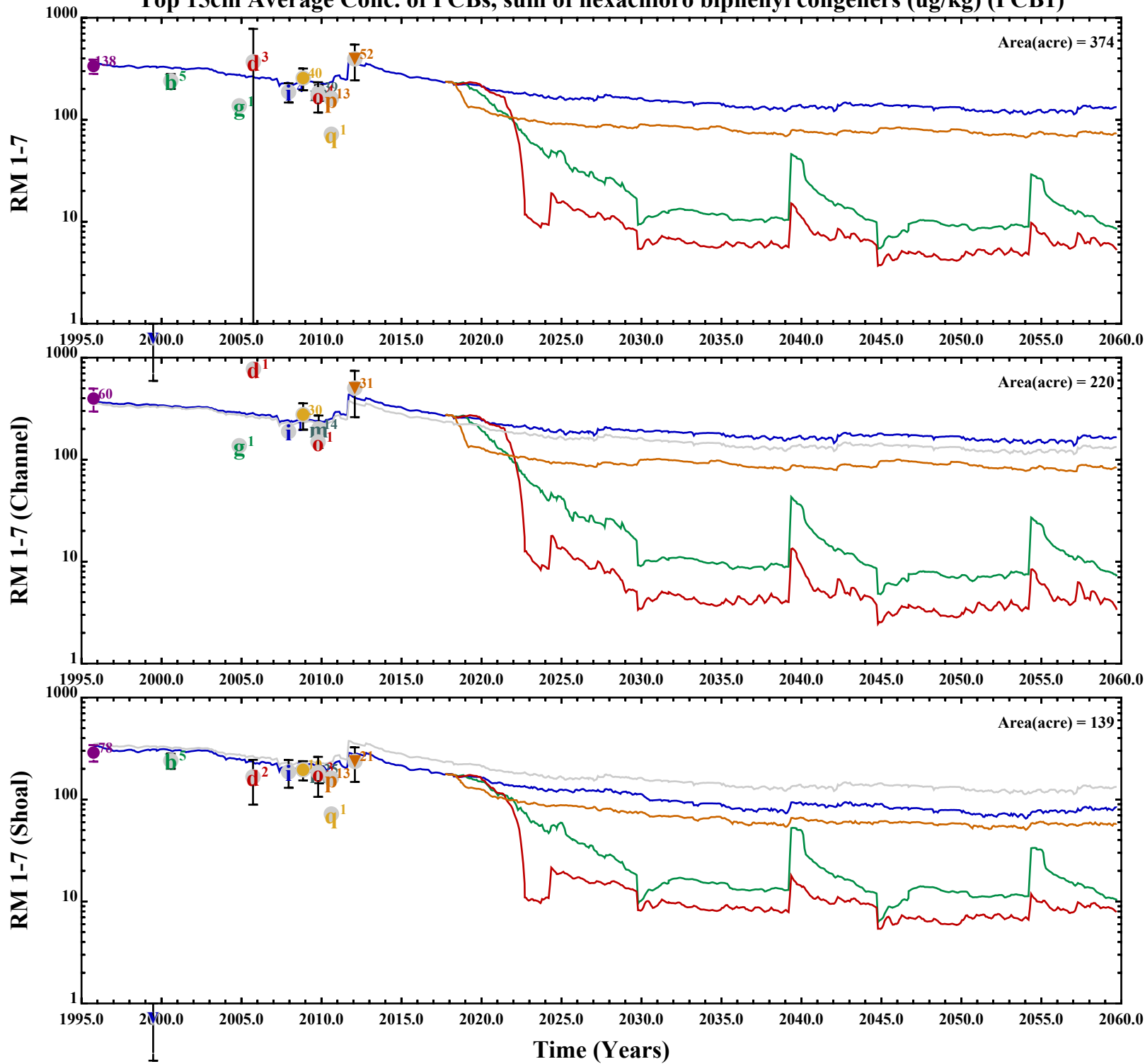
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

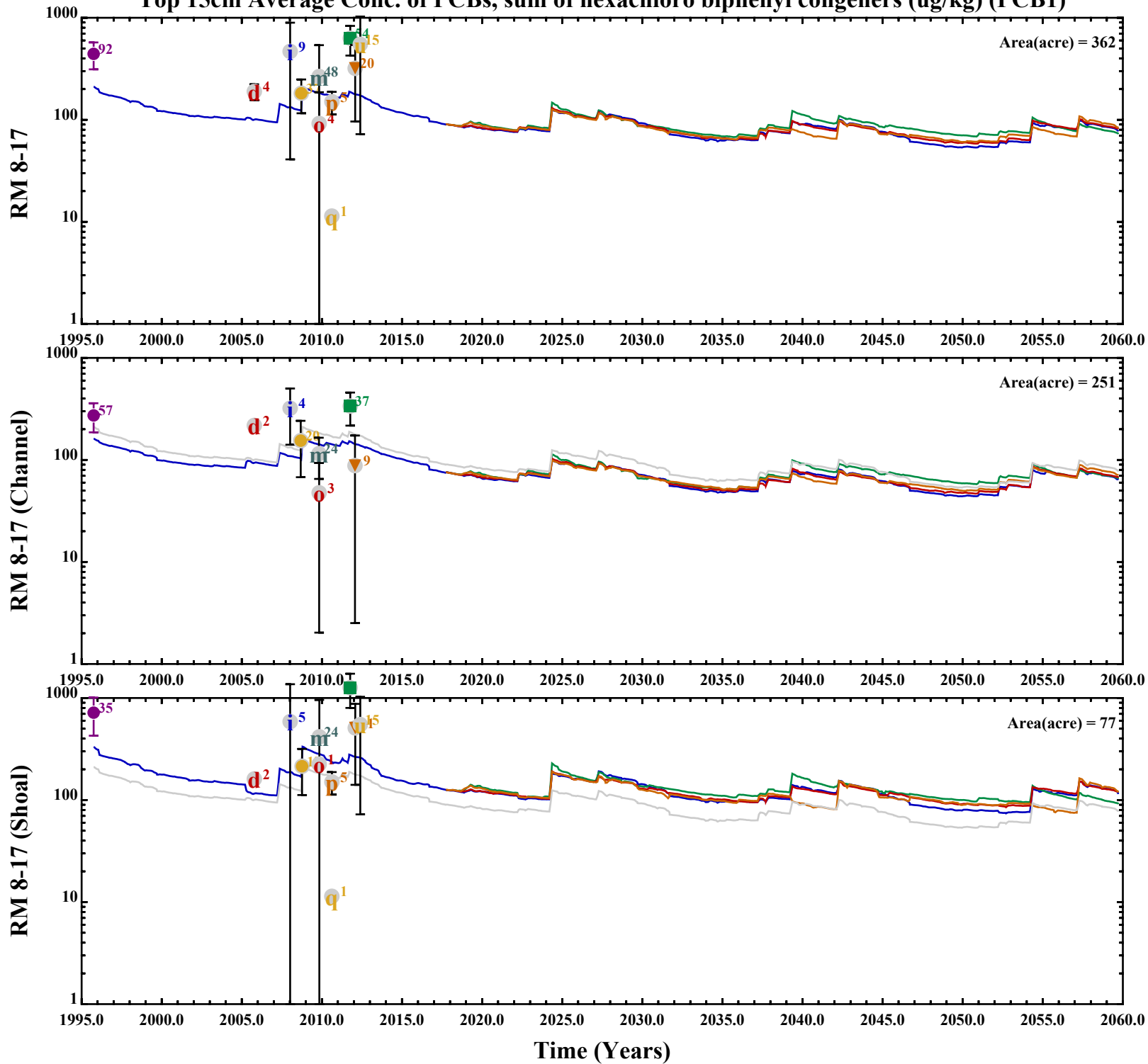


# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



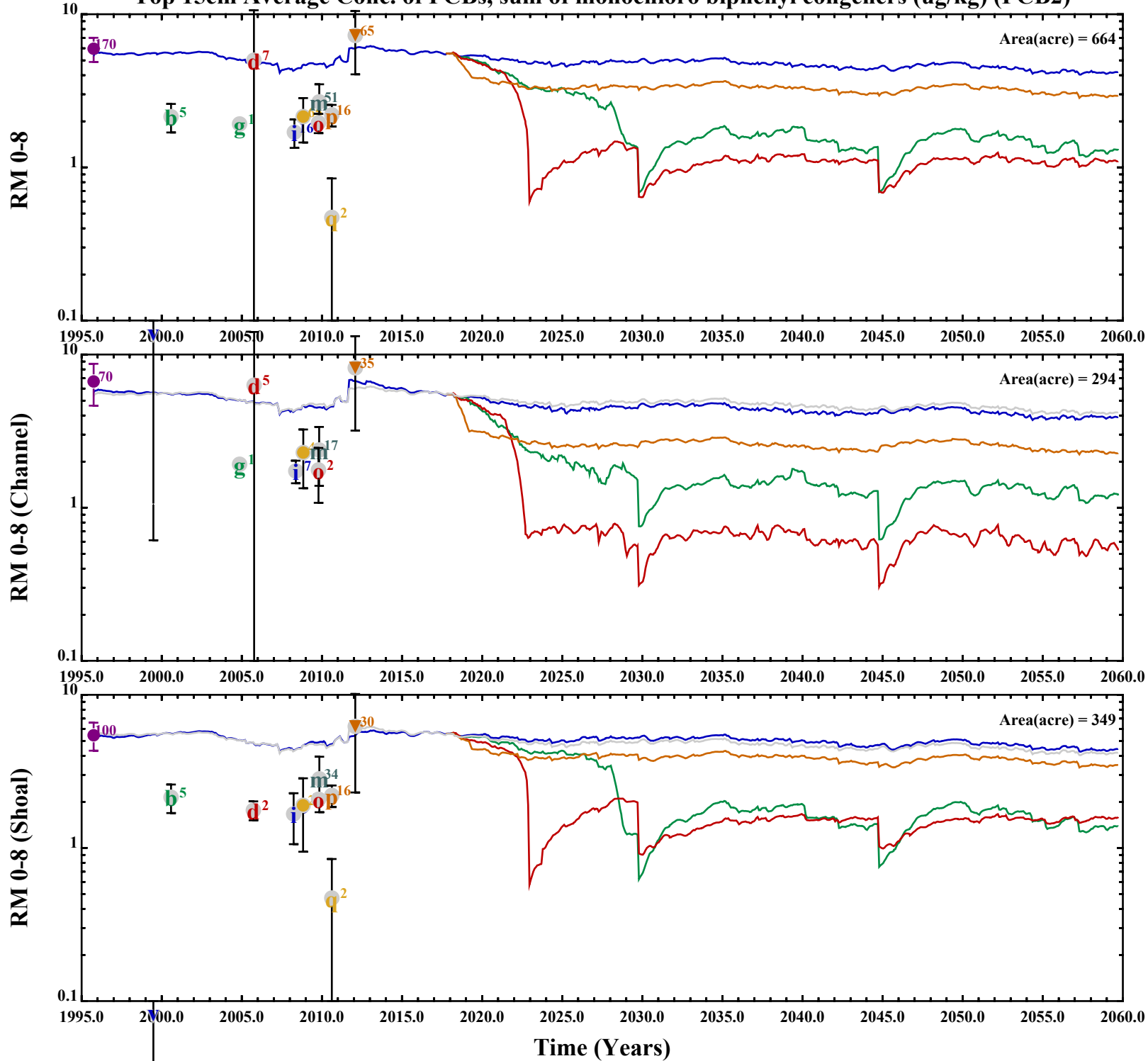
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
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  - NOAA NS&T Hudson-Raritan Phase II, 1993
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  - 2012 CDMSmith LowRes Coring Supplemental
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

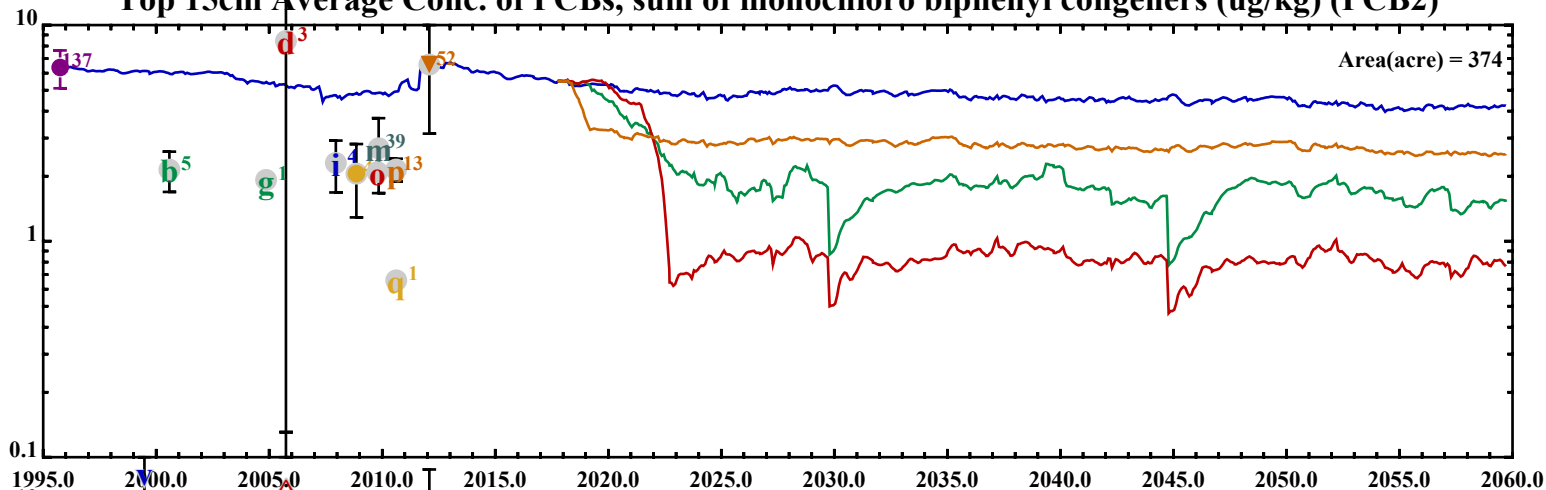
# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



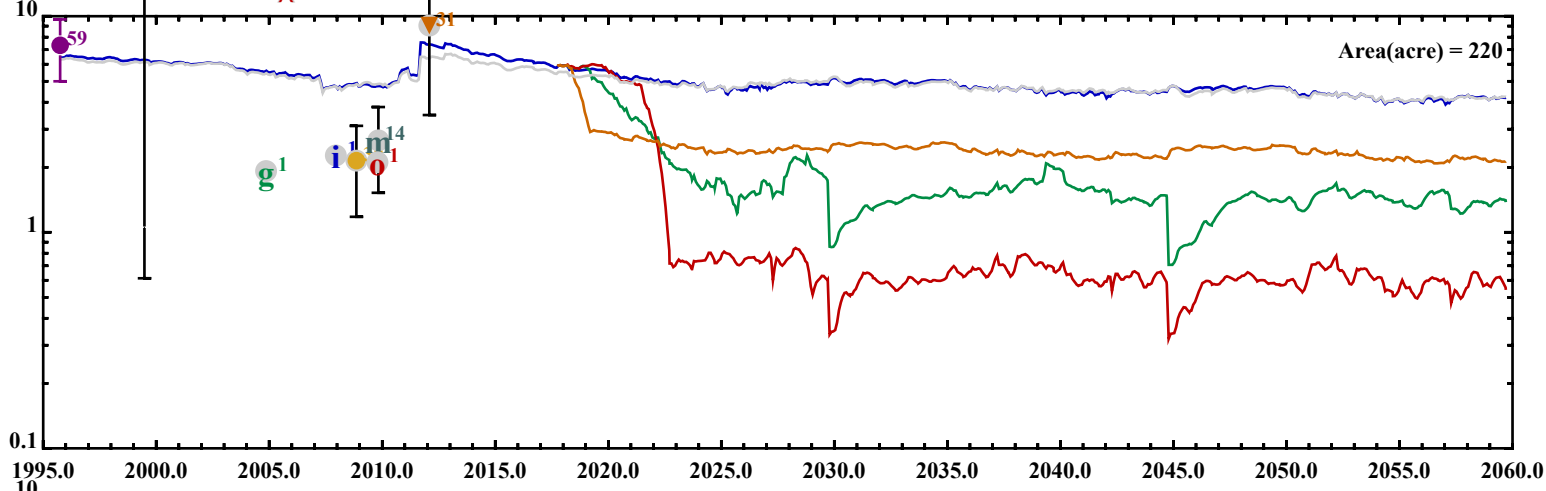
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
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  - C 1991 Core Sediment Investigation
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
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  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

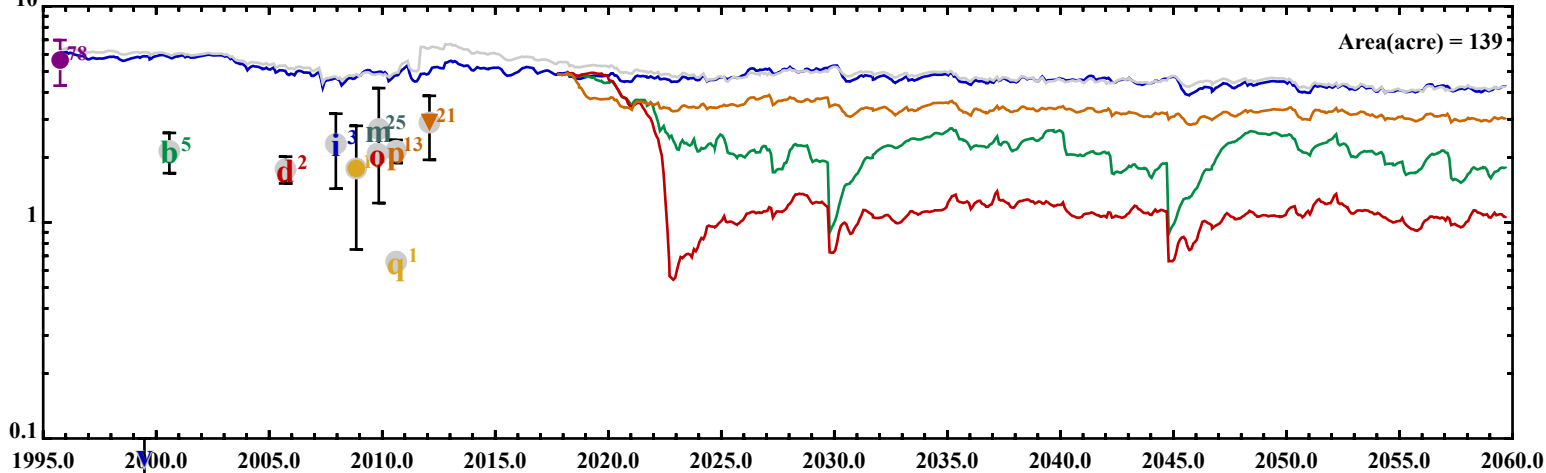
RM 1-7



RM 1-7 (Channel)



RM 1-7 (Shoal)

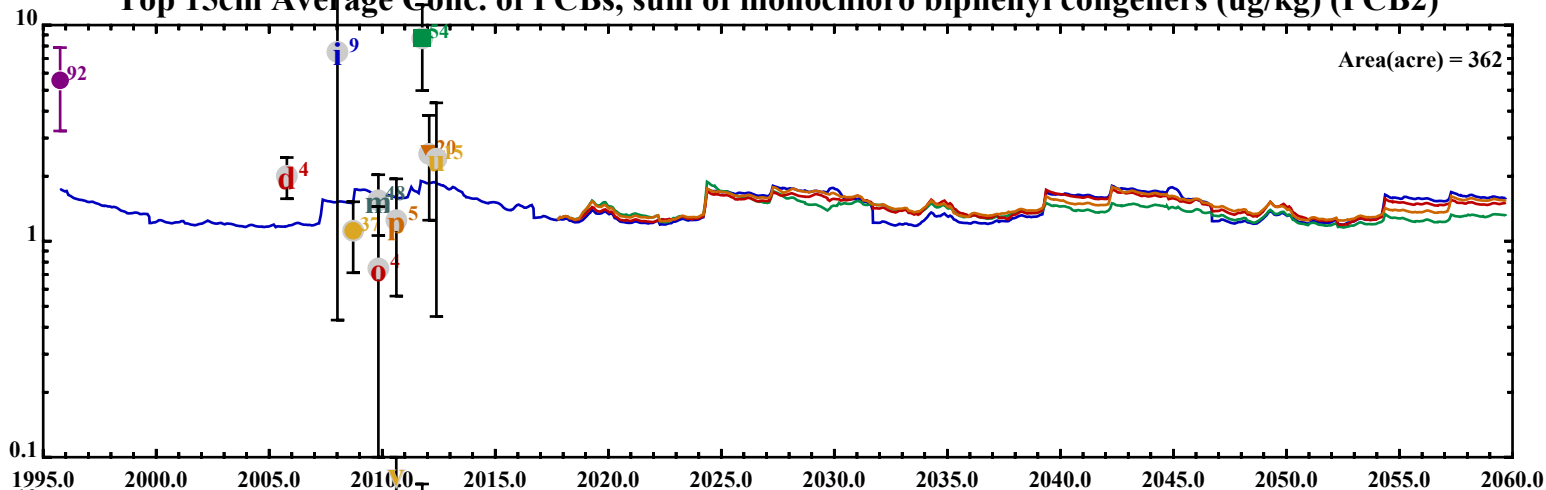


Time (Years)

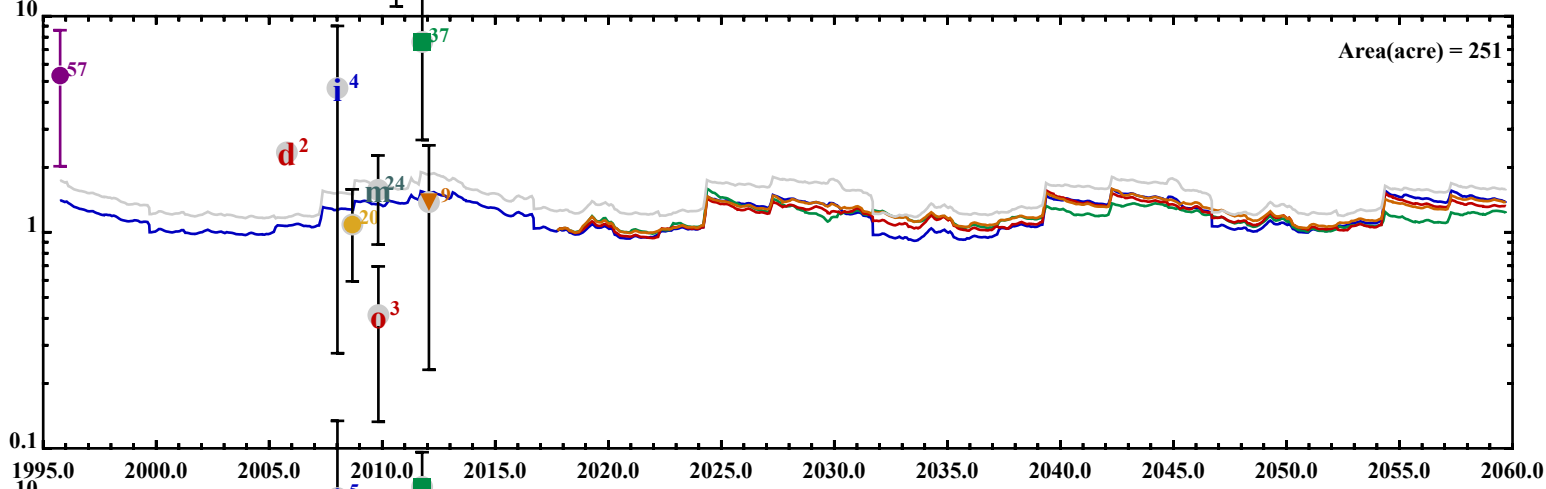
- Data used for ICs
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm AveAge Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

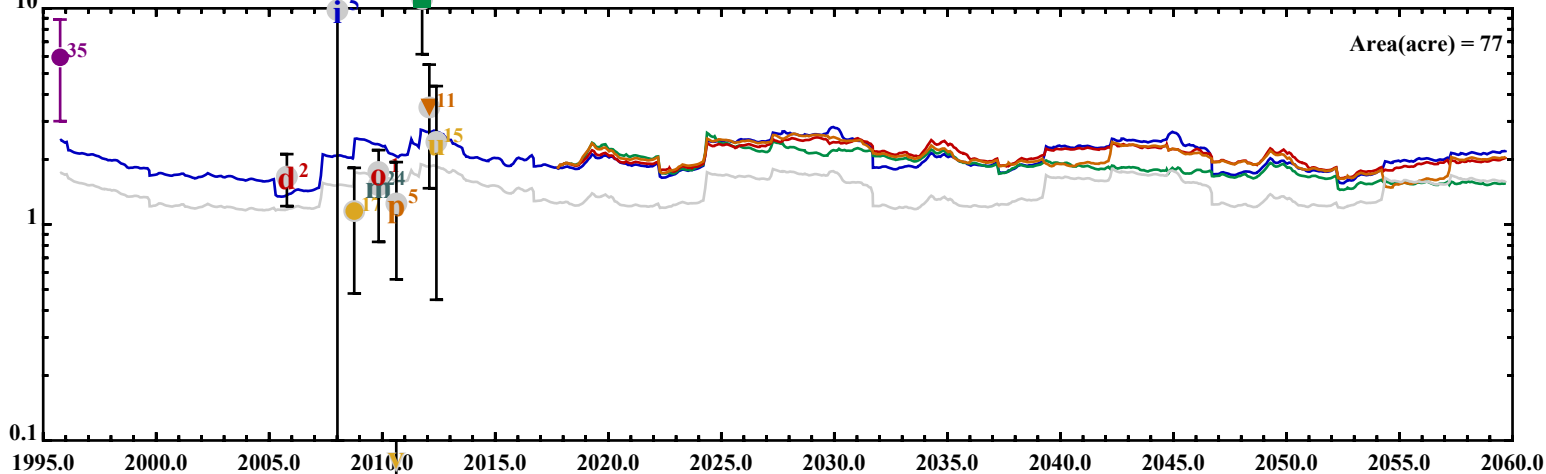
RM 8-17



RM 8-17 (Channel)



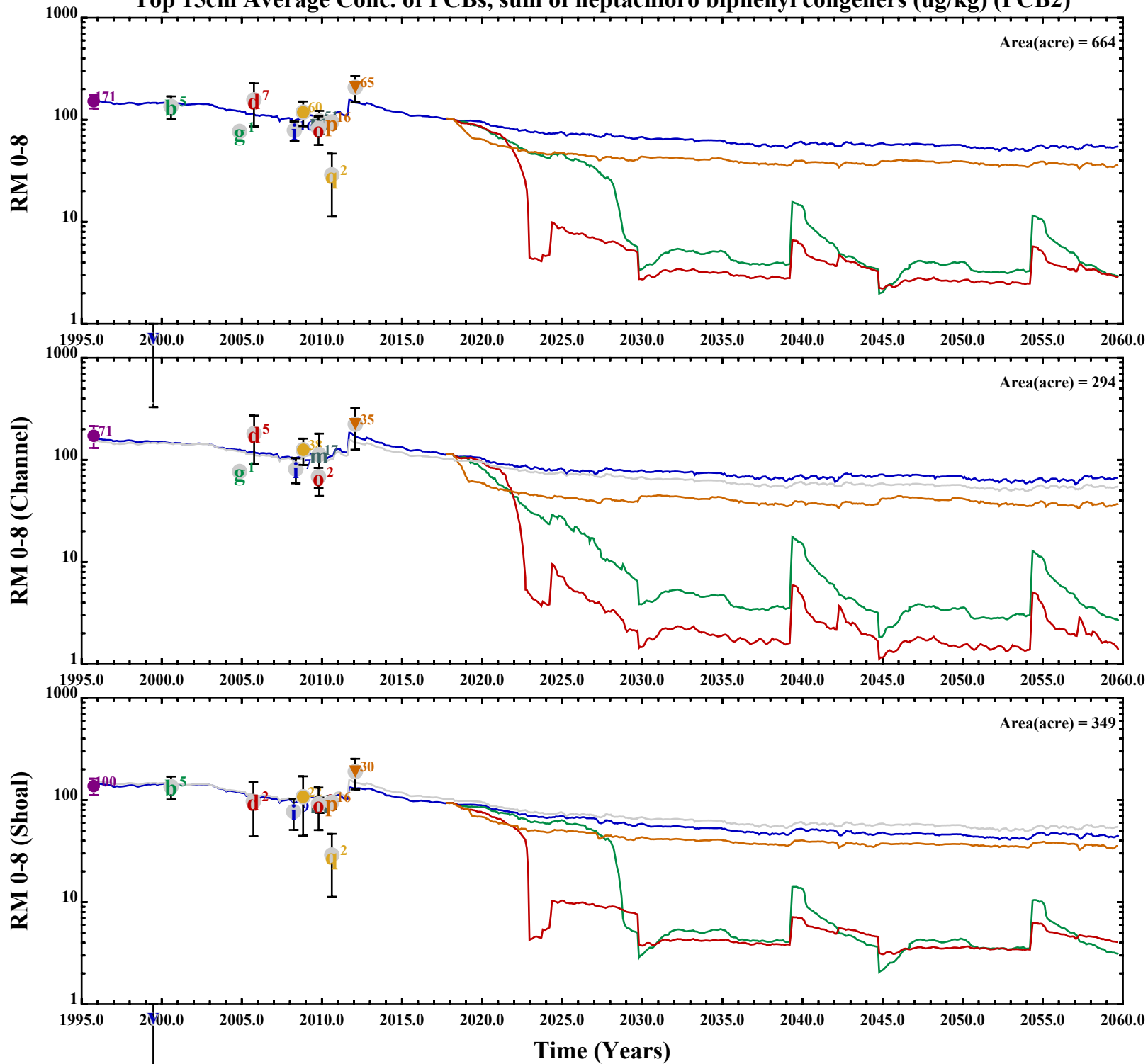
RM 8-17 (Shoal)



Time (Years)

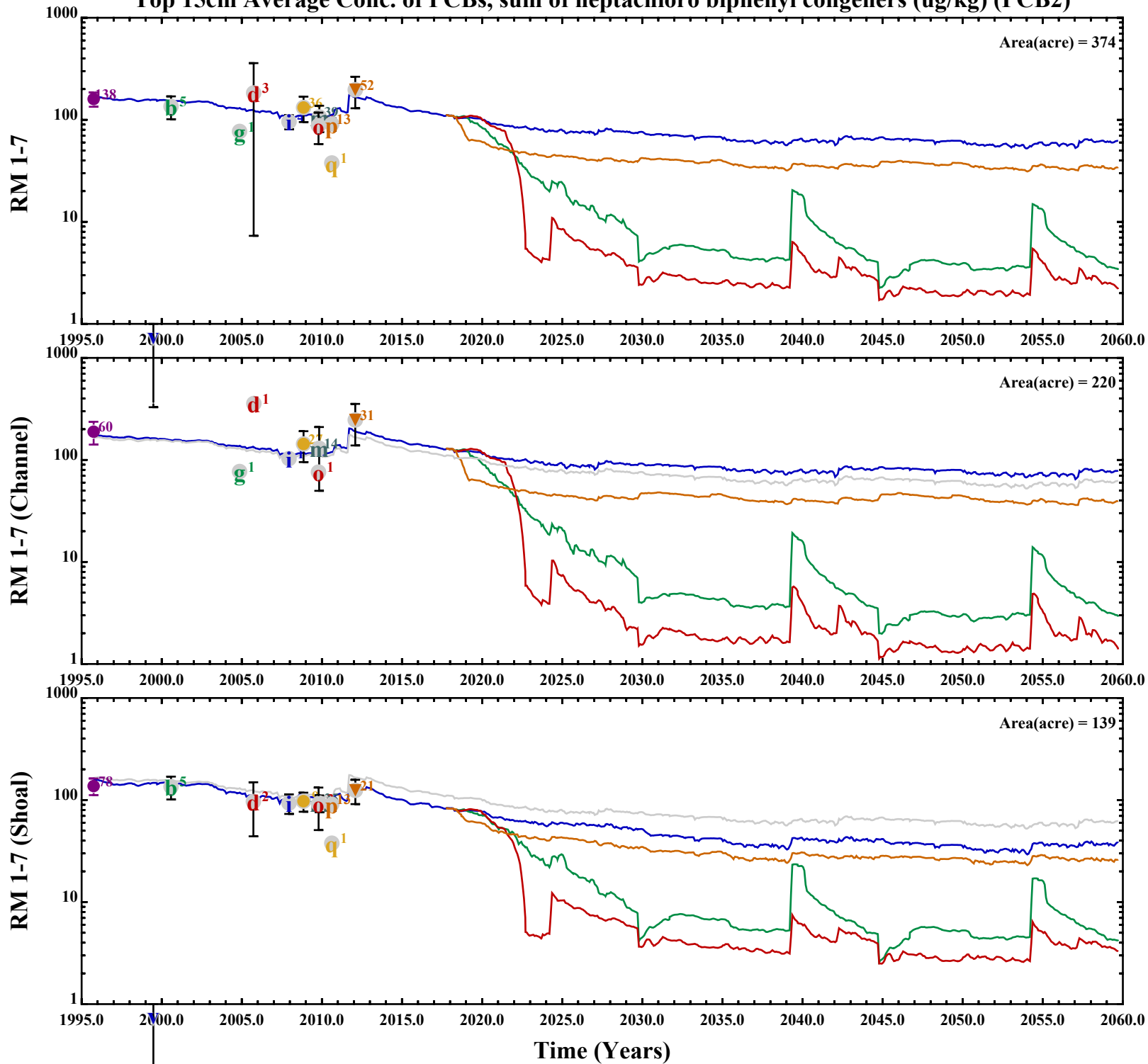
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - 2000 Toxicity Identification Evaluation
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  - 2006 HRSA RI Sampling Program
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  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
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  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



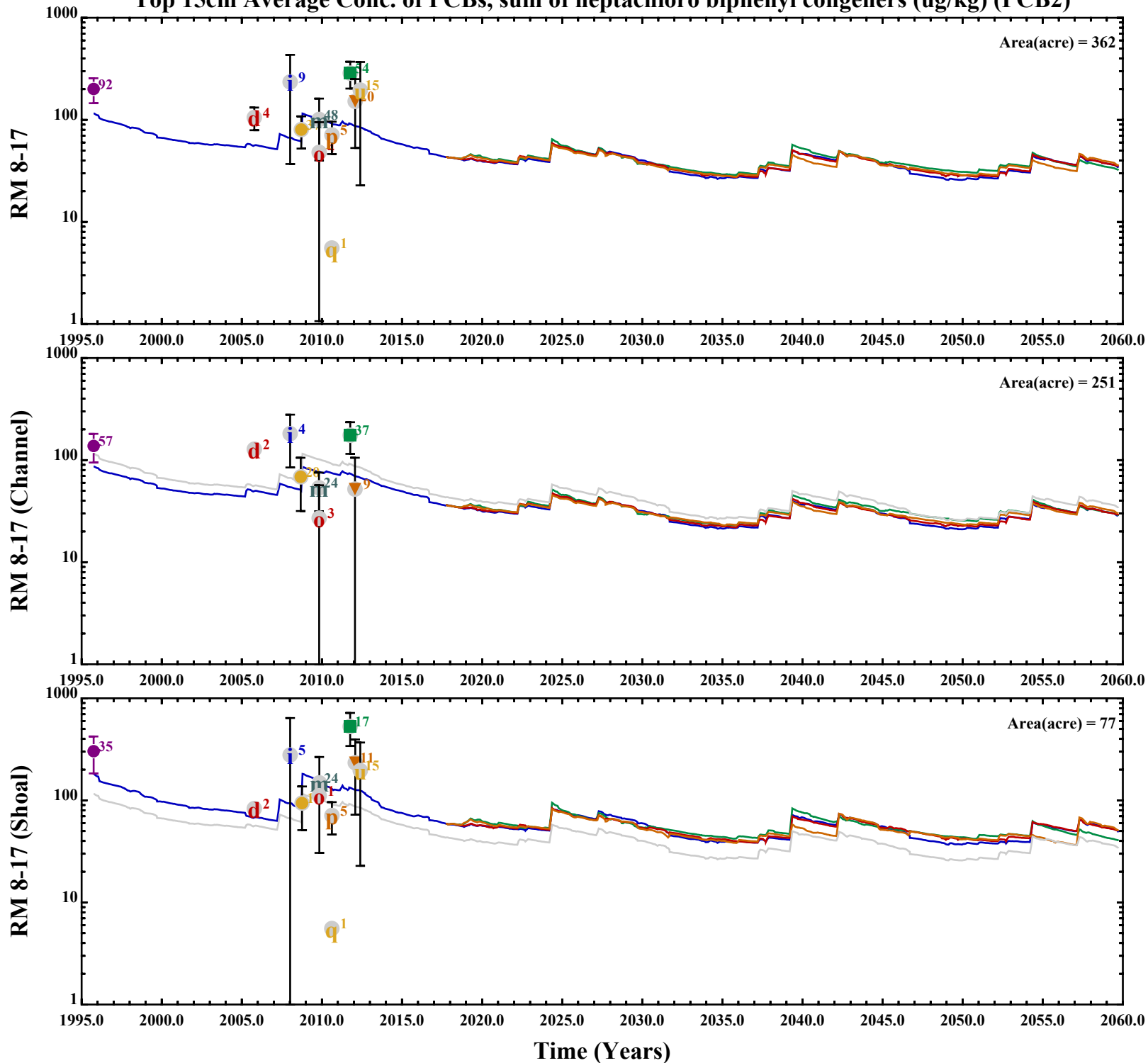
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 01 (March)
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - A 1990 Surficial Sediment Investigation
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  - p 2010 CPG Benthic Sediment Sampling
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  - u 2012 CPG River Mile 10.9 Data
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- No Action Gradient IC, Reach Scale Up
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  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

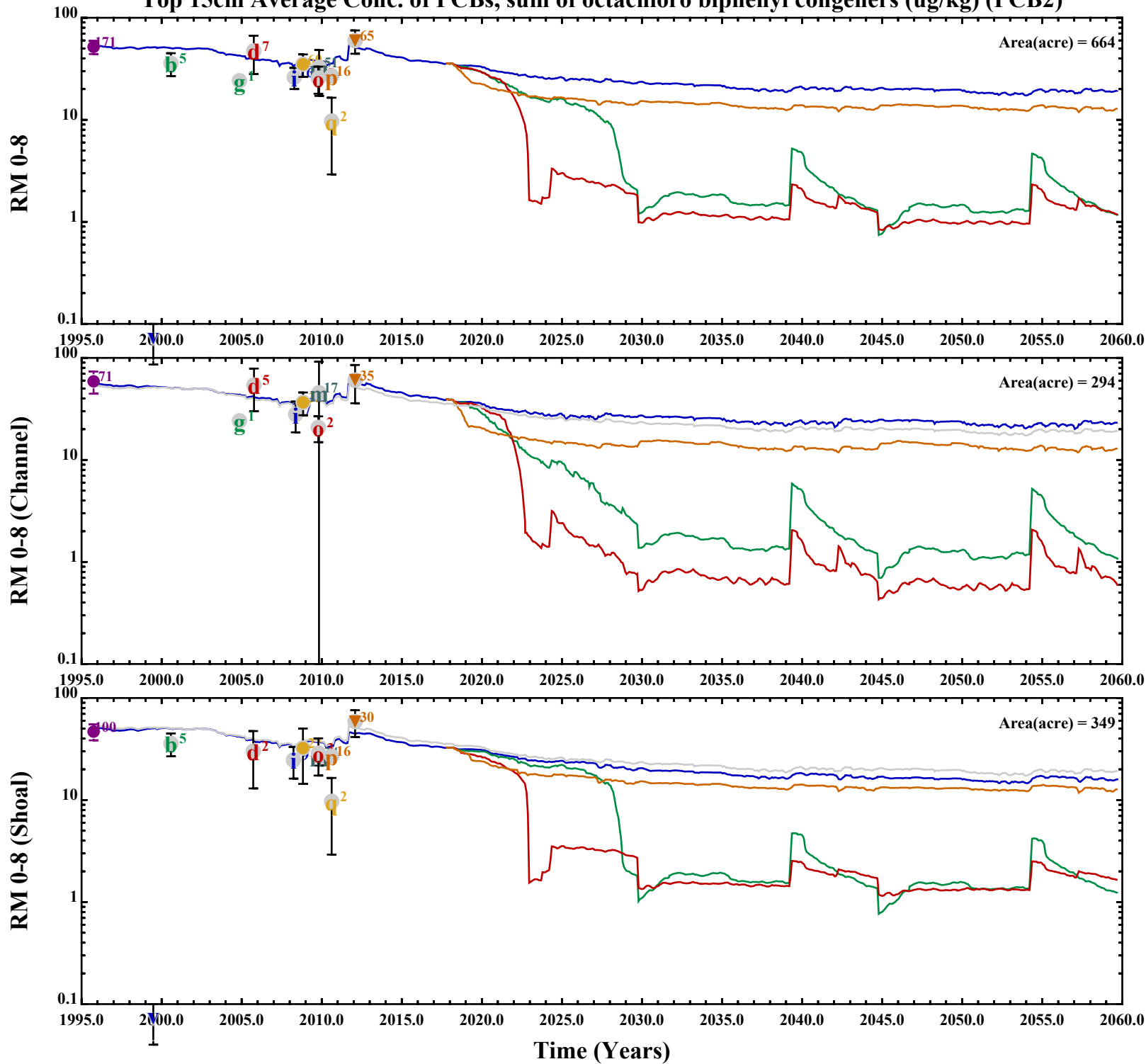
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



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  - 1992 Core Sediment Investigation
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  - 1994 Surficial Sediment Investigation
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  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
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  - 2012 CPG River Mile 10.9 Data
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

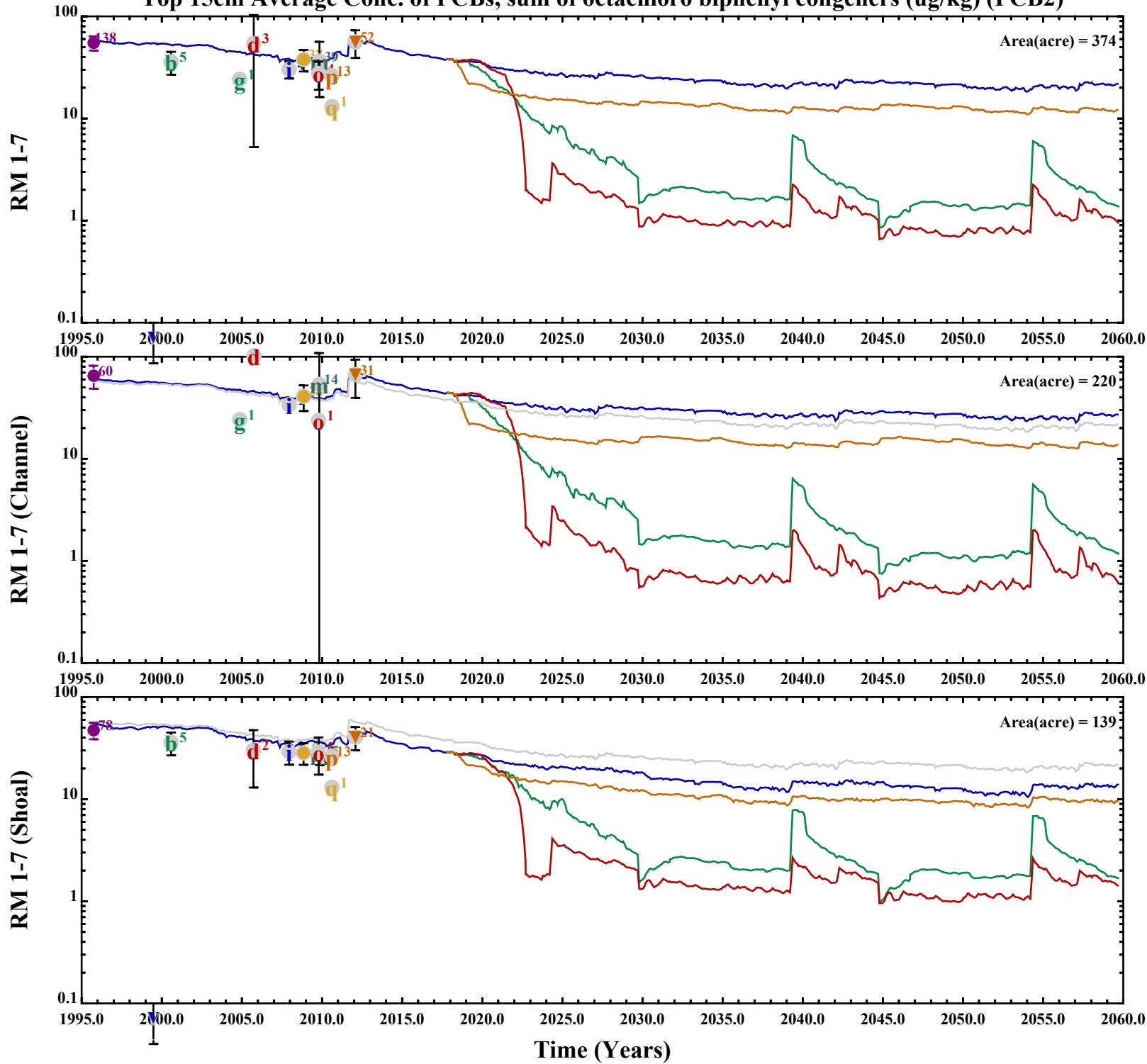


# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



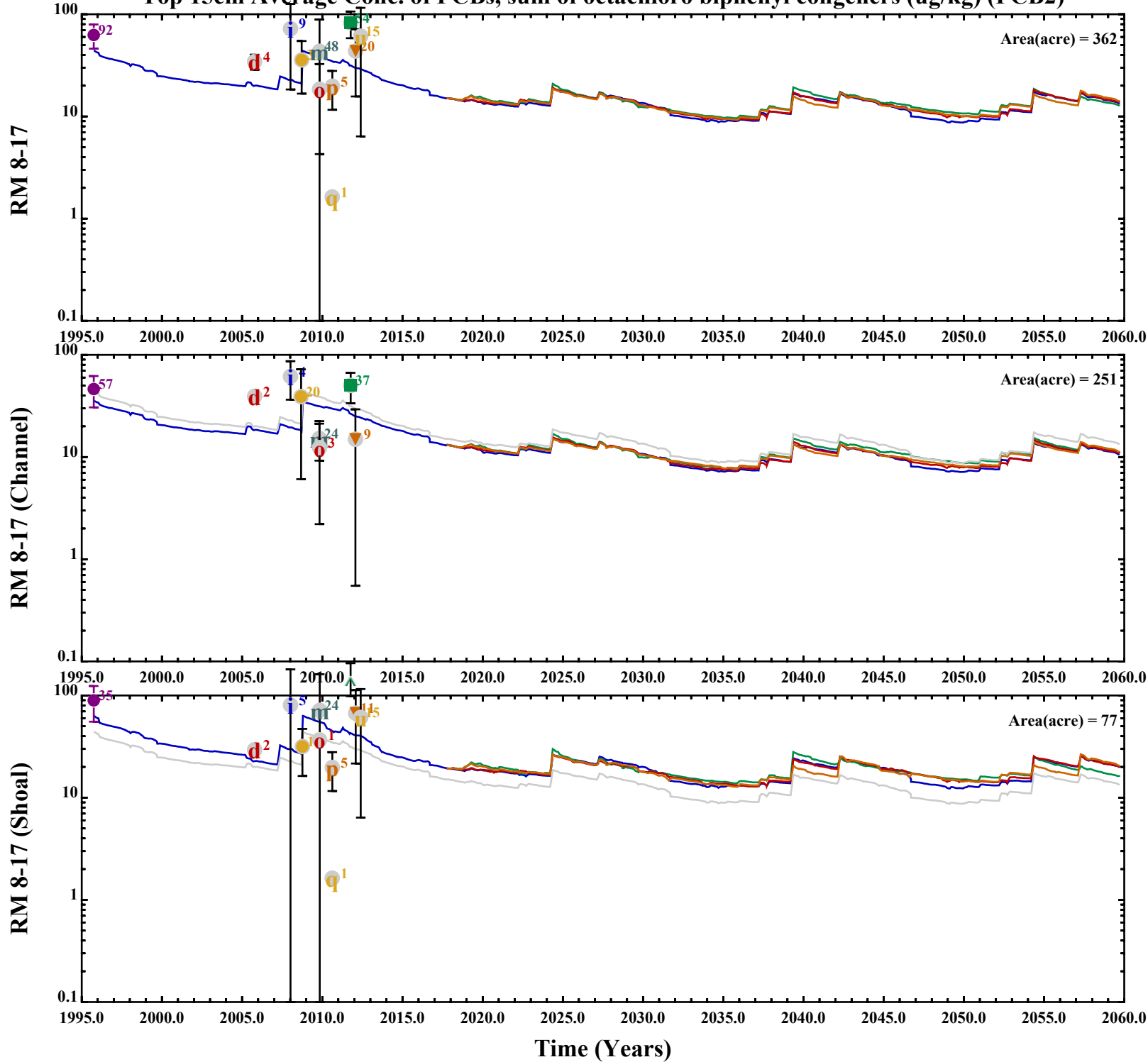
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

### Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



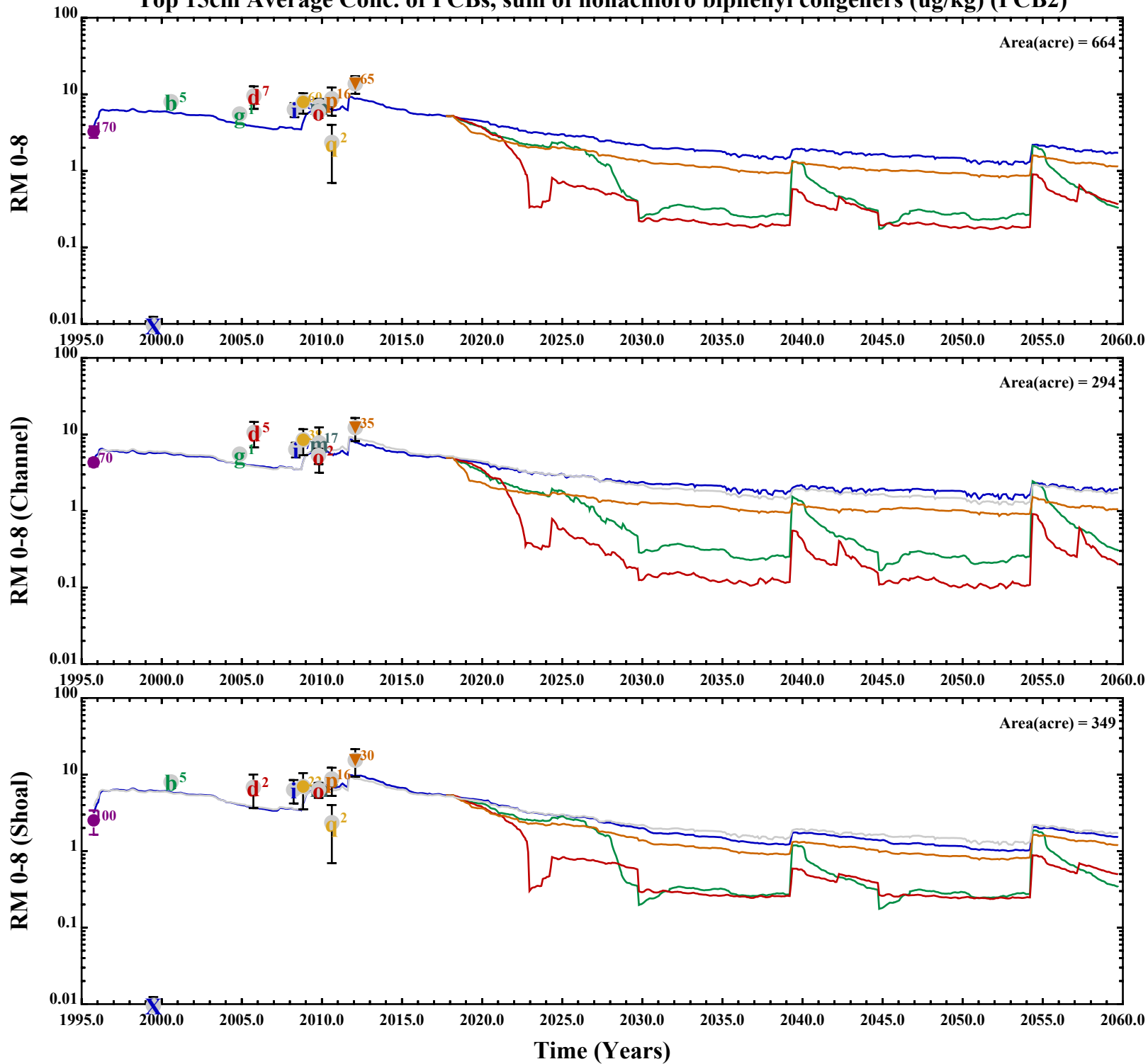
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



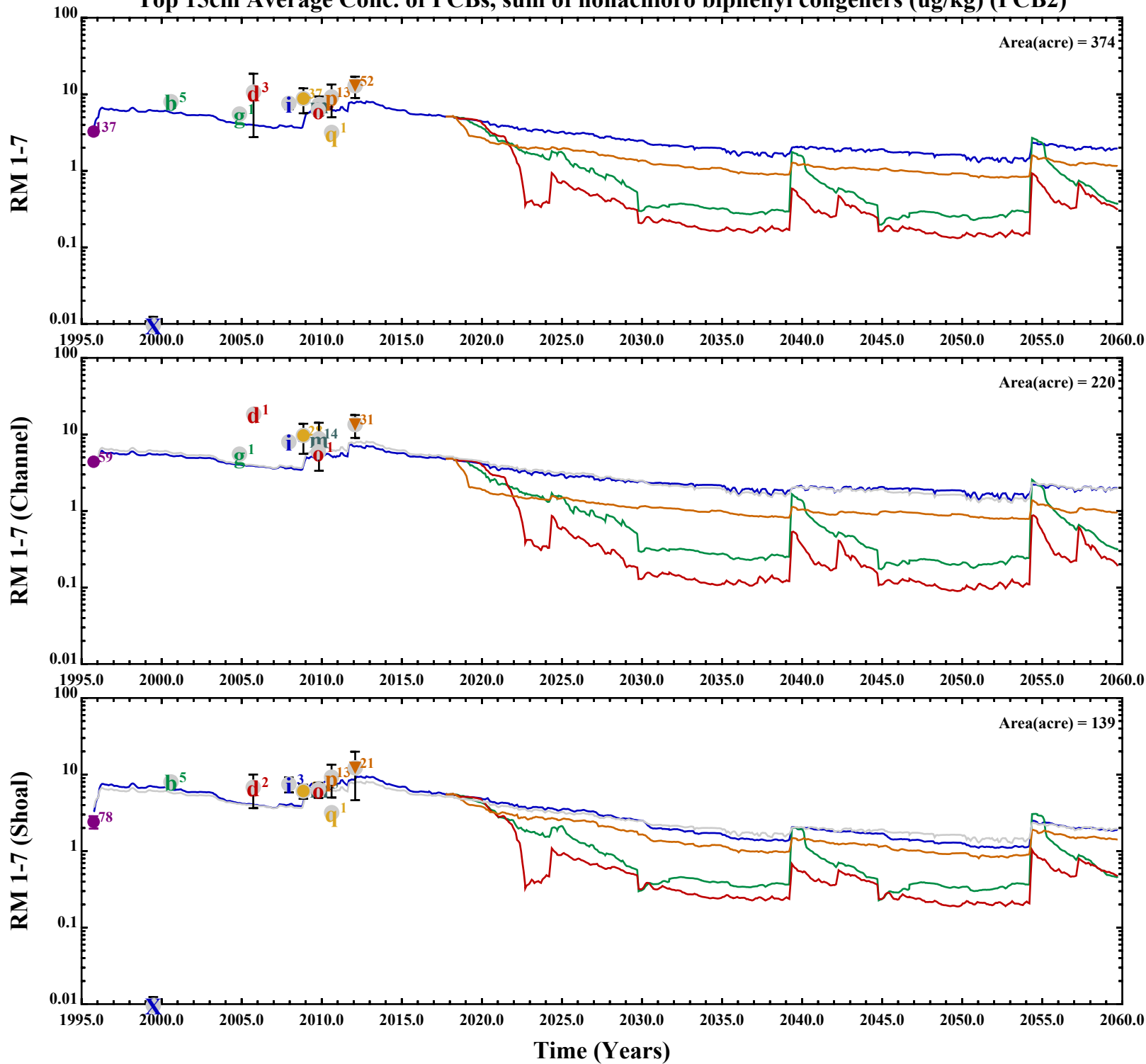
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
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  - Focused Capping
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# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



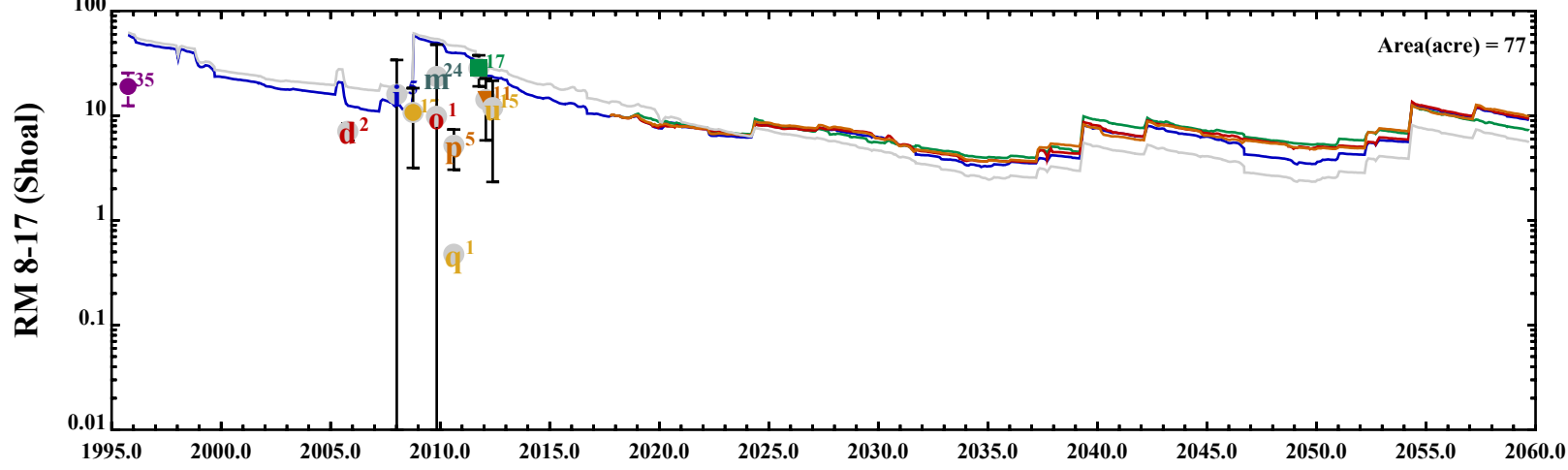
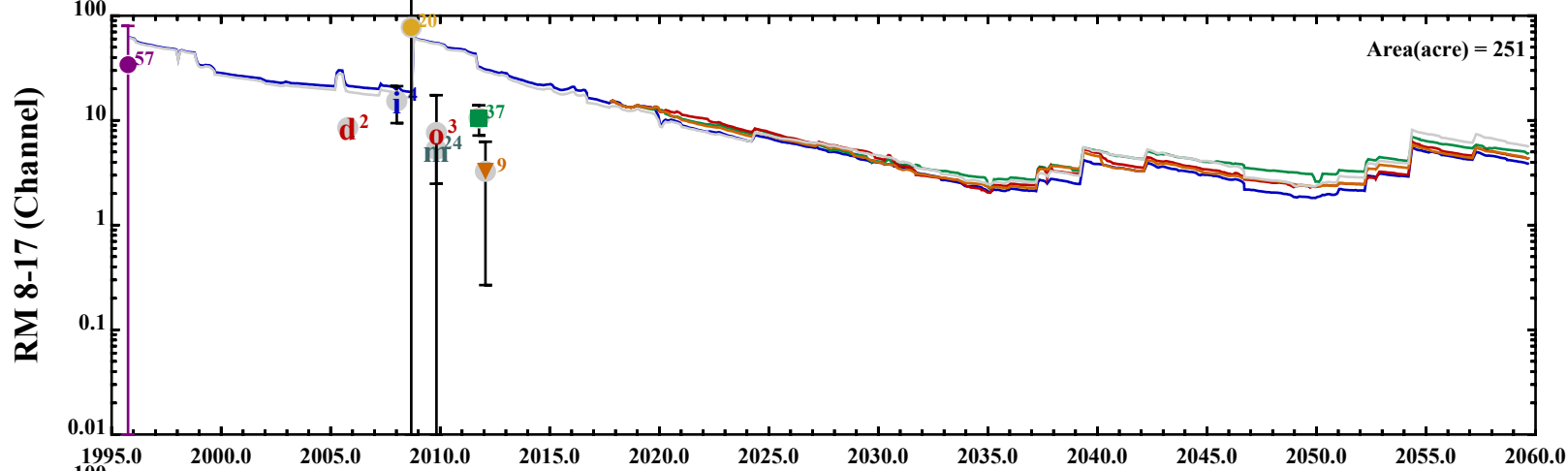
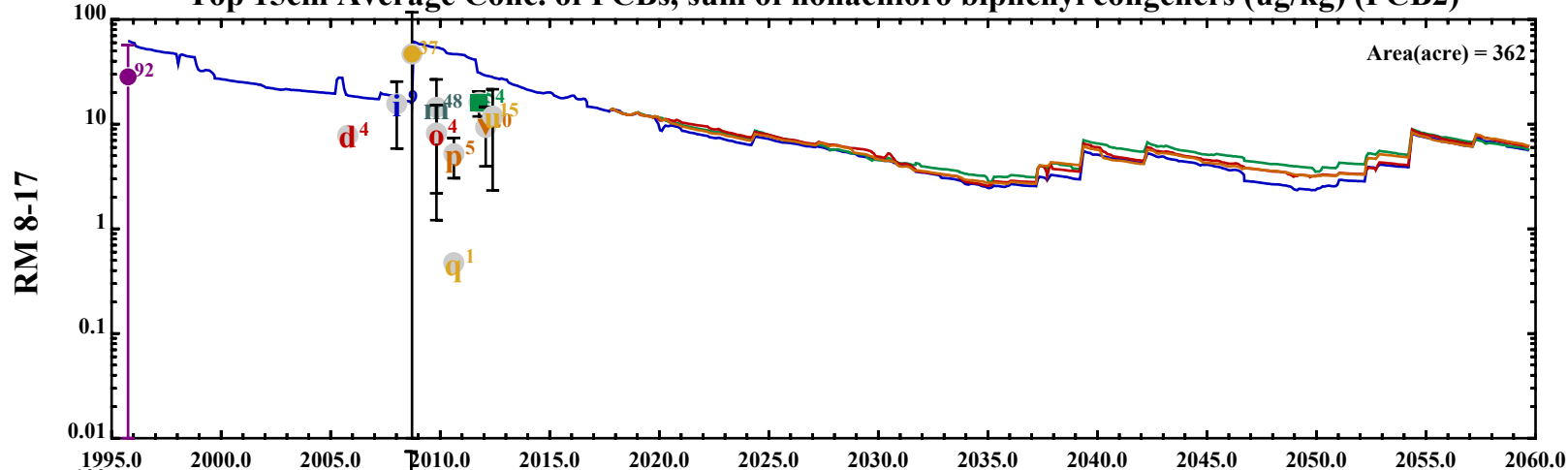
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
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# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



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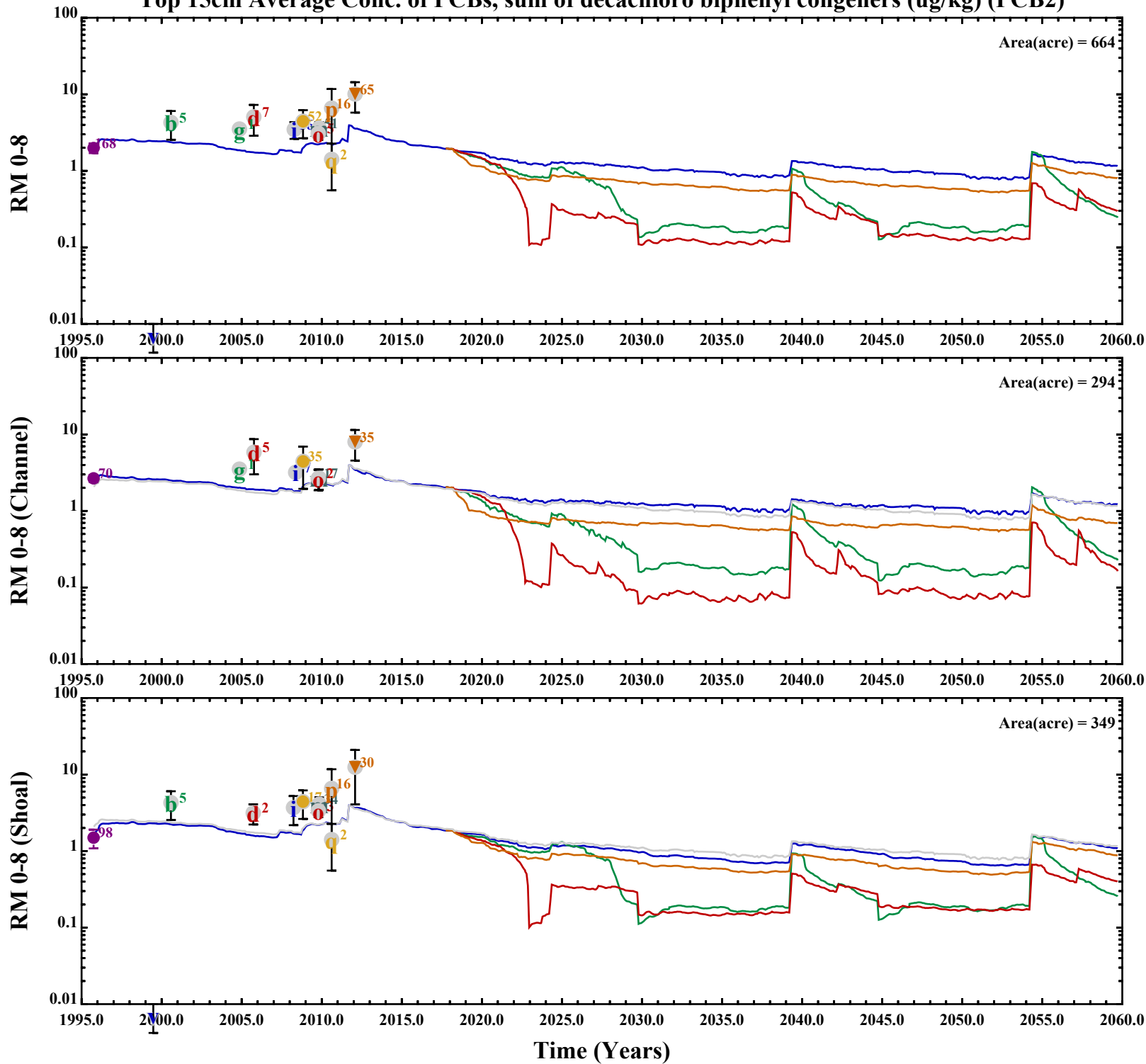
# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



Time (Years)

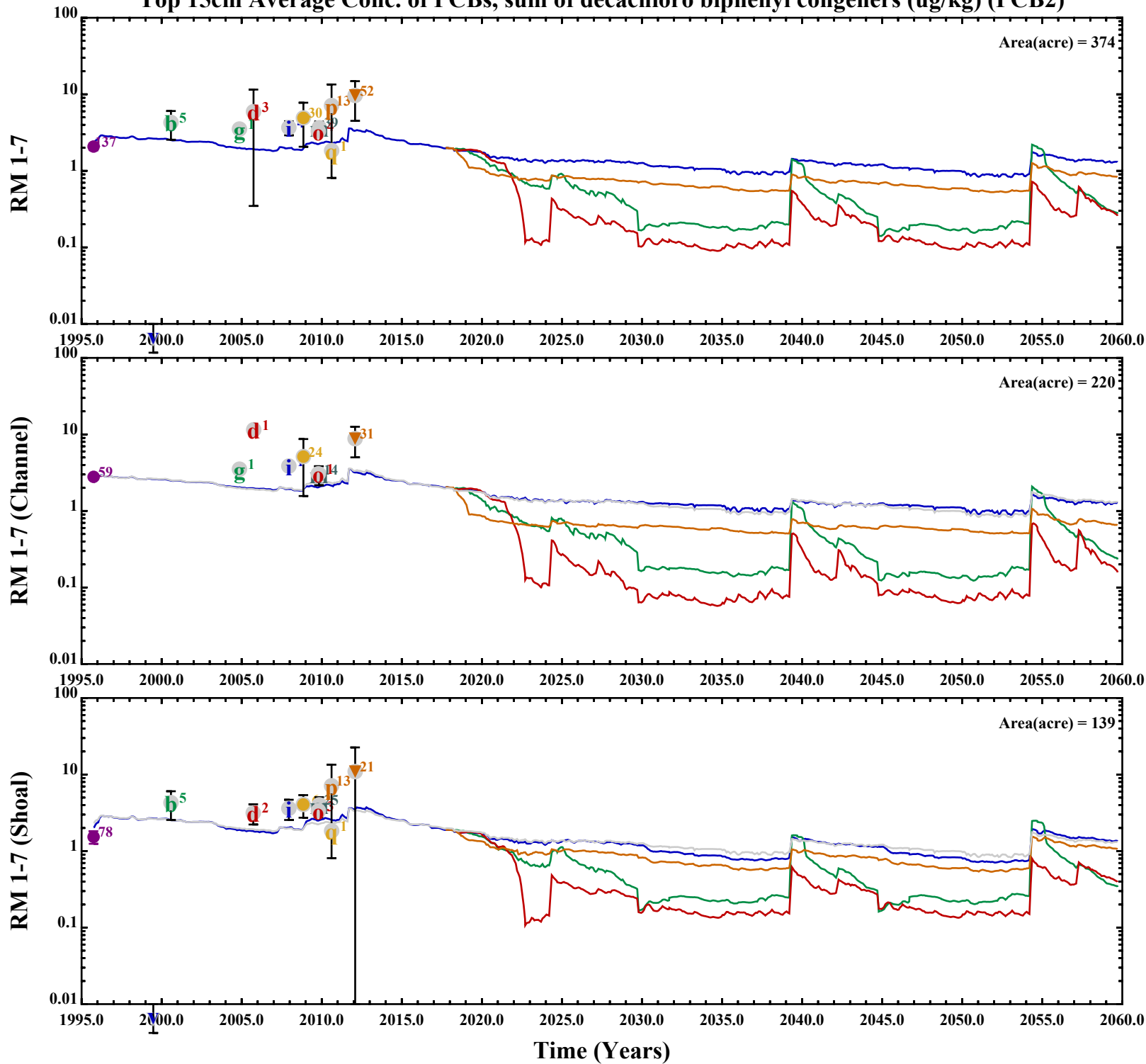
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# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



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  - A 1990 Surficial Sediment Investigation
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  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
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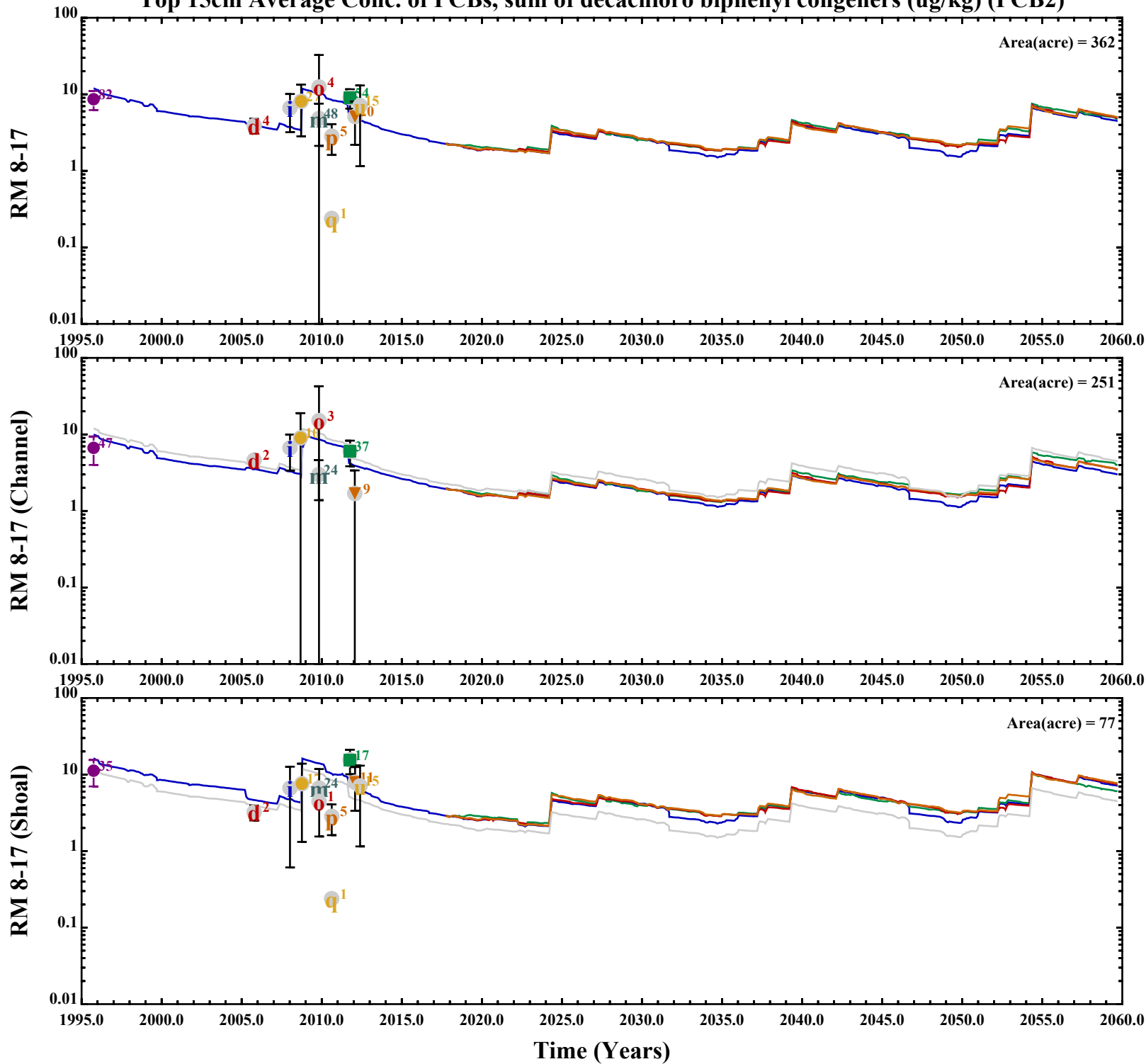
# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
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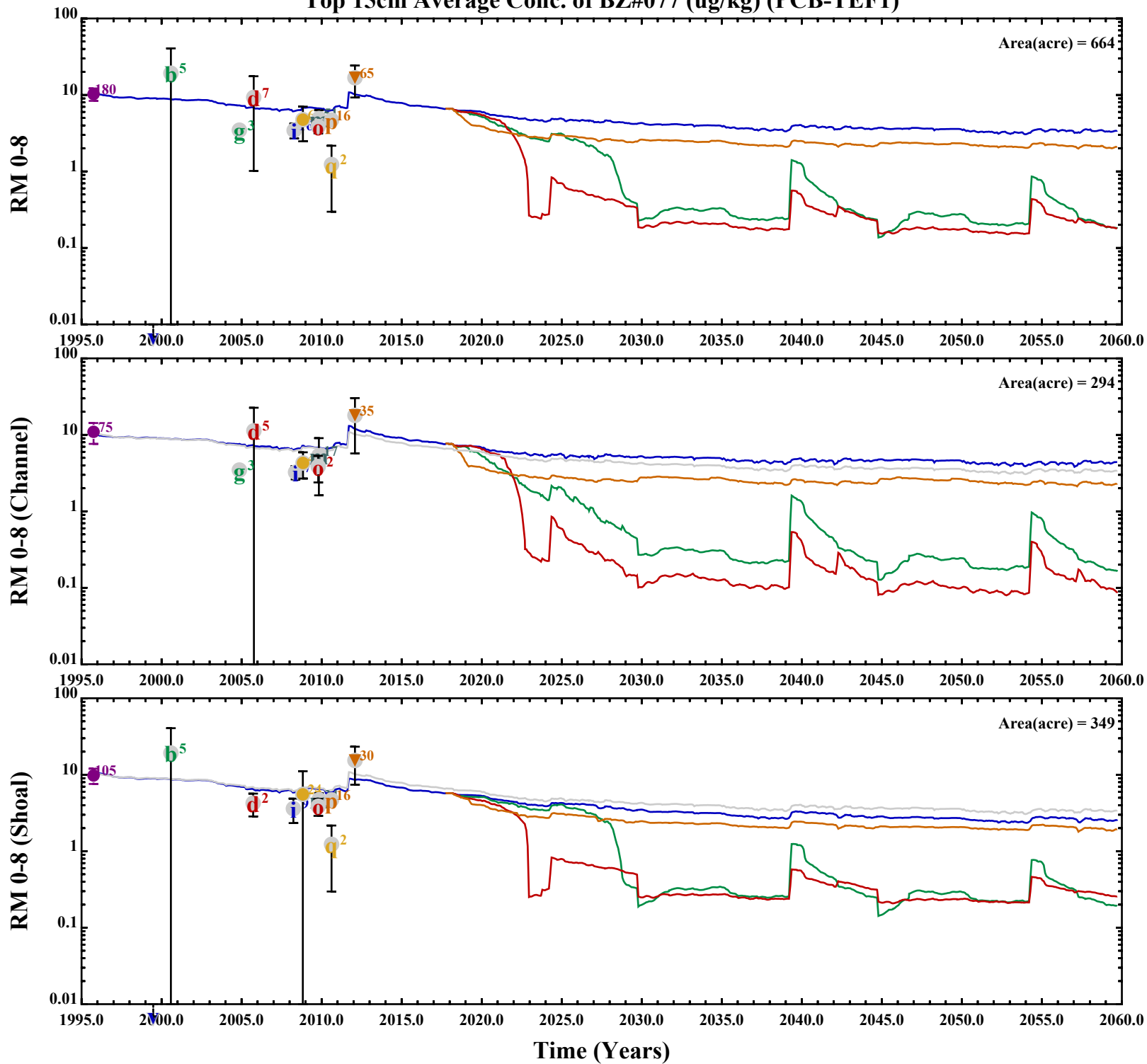


# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



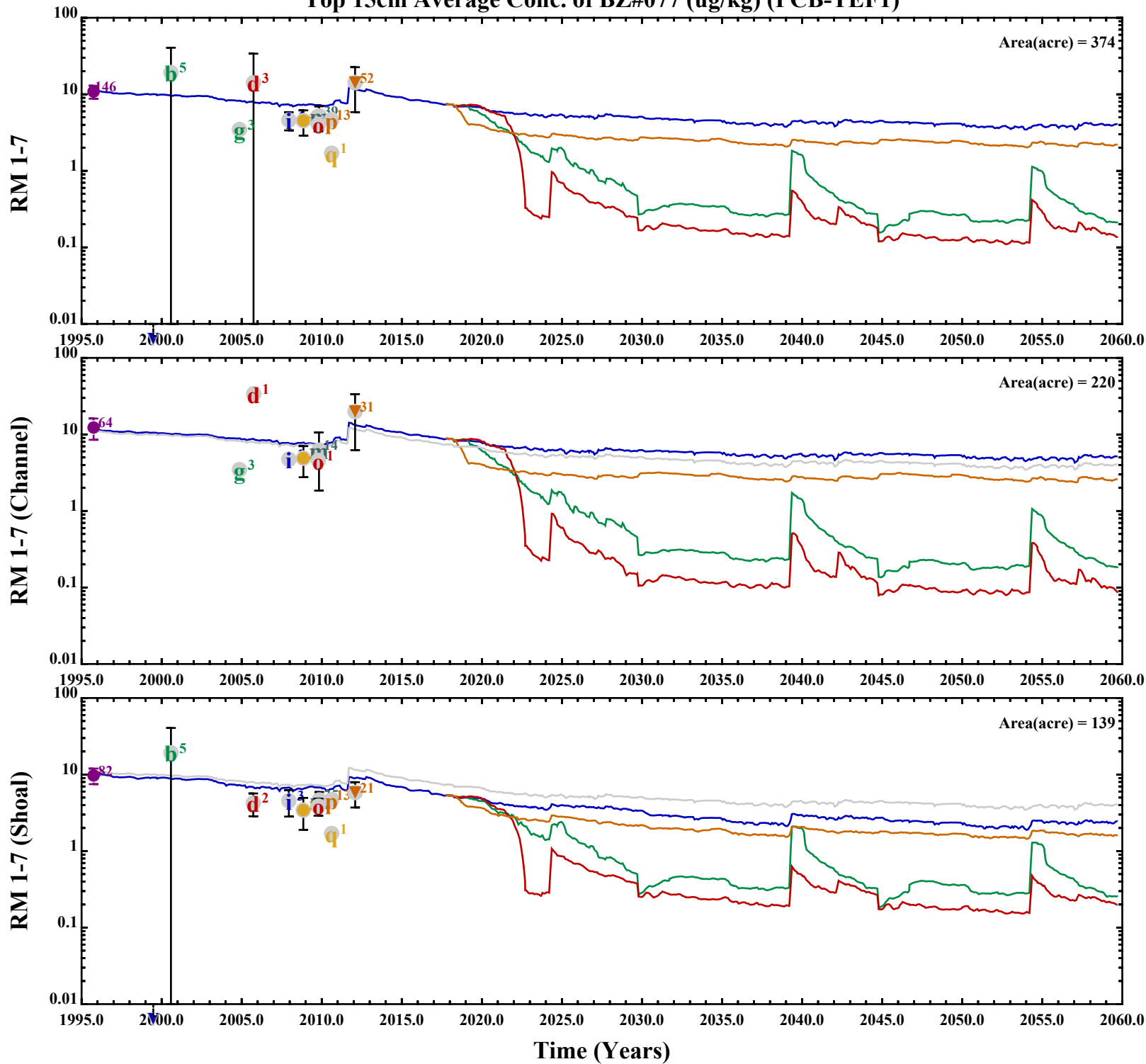
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- No Action Gradient IC, Reach Scale Up
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  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



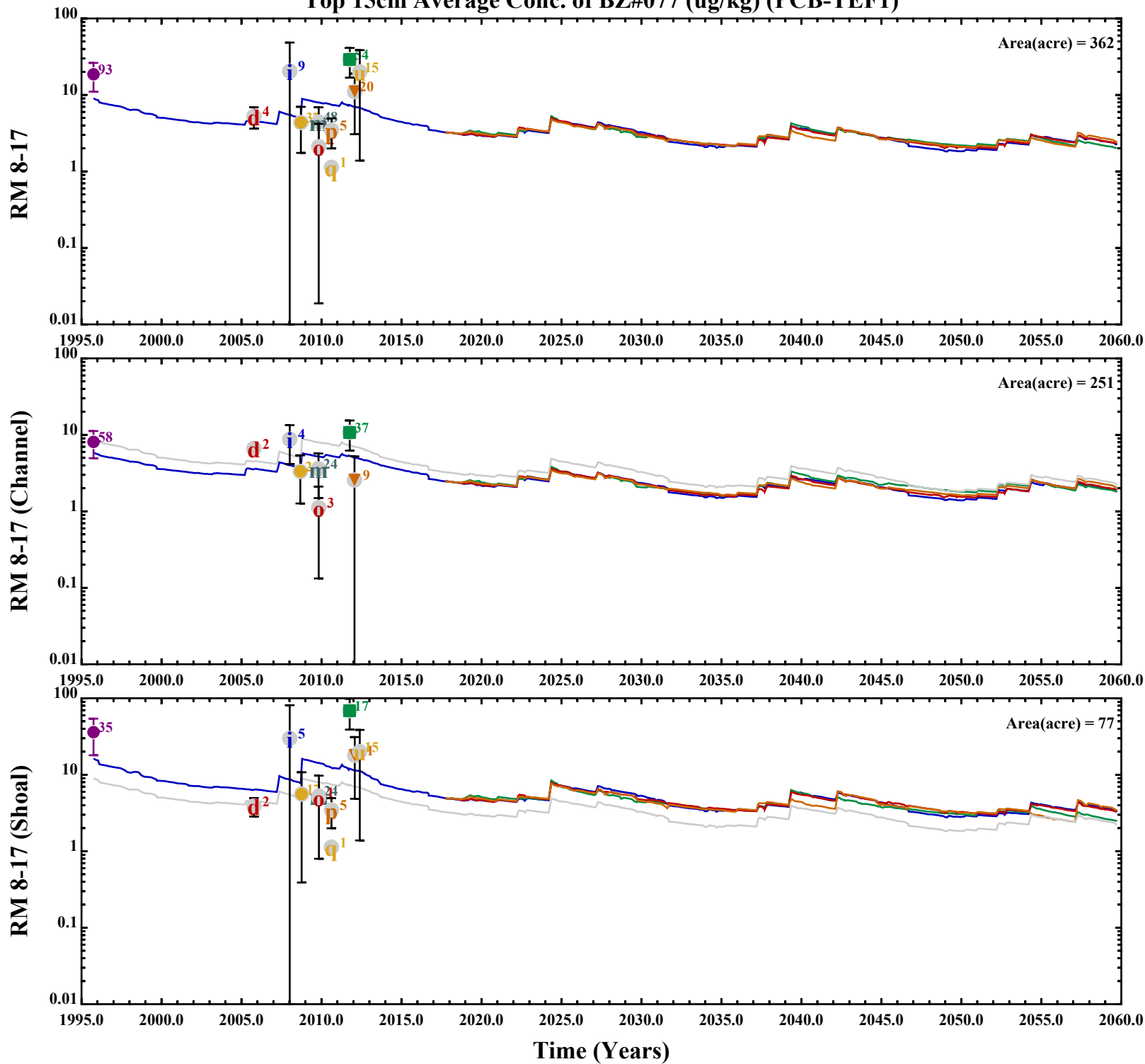
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  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



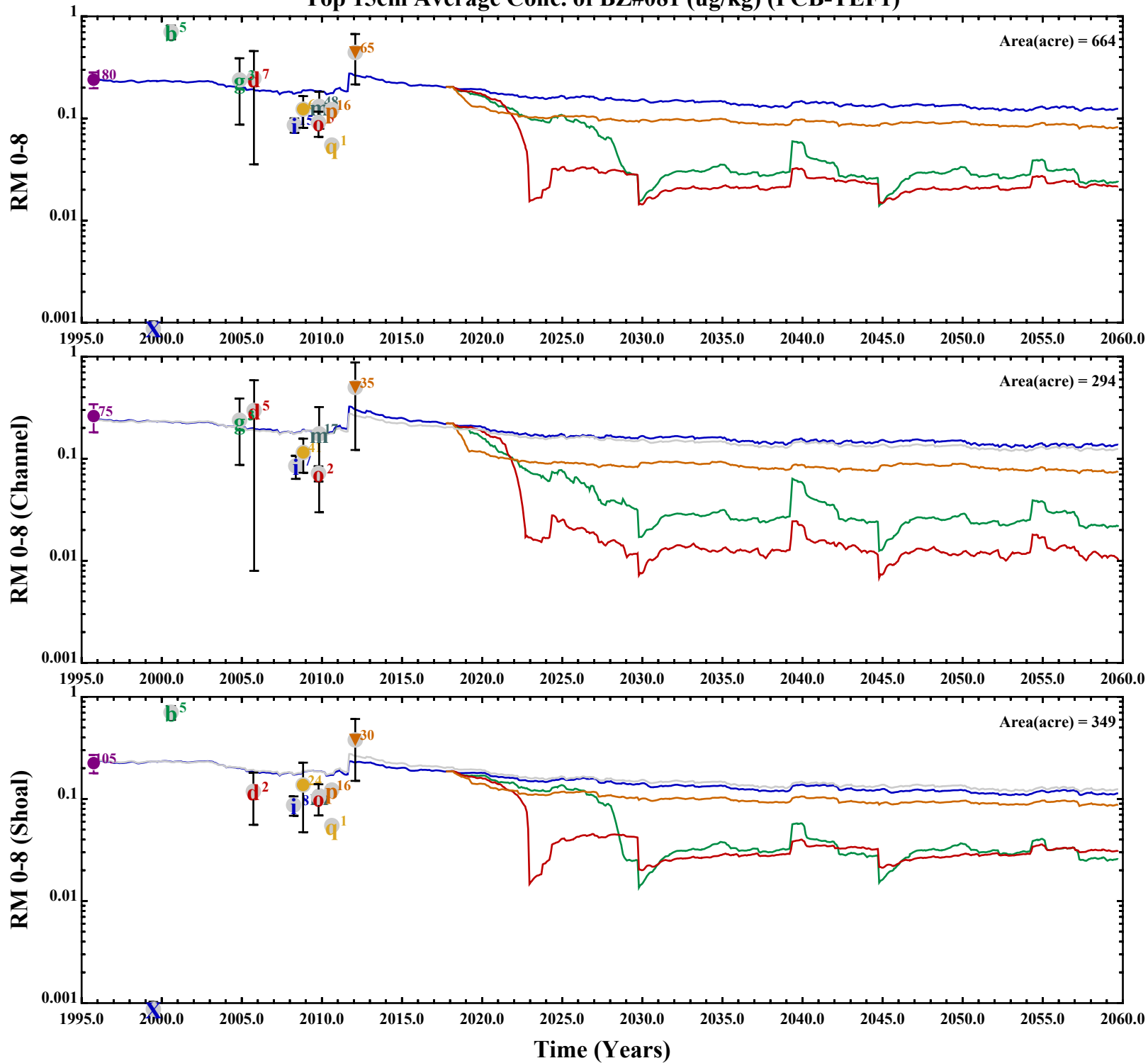
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  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



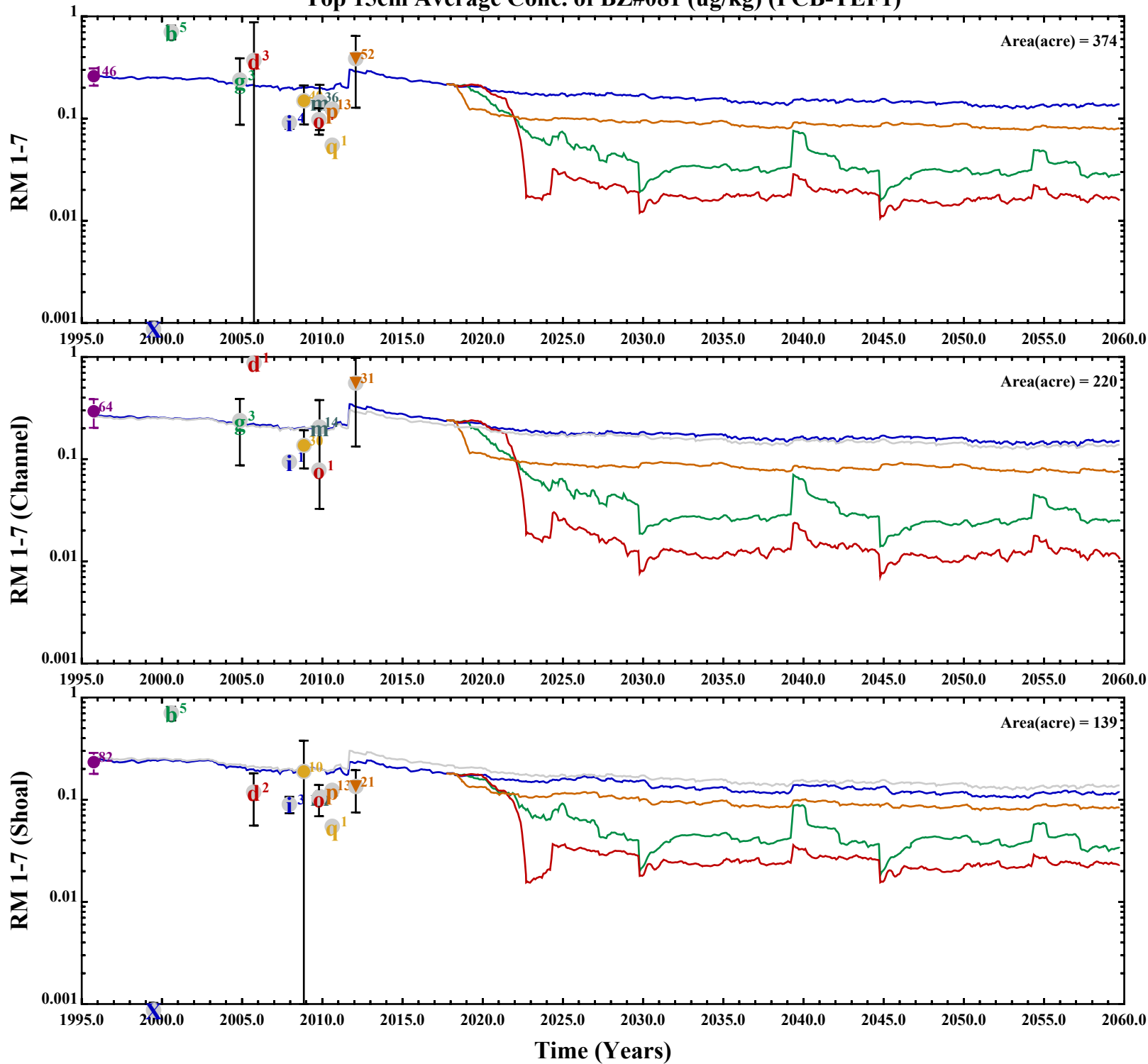
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



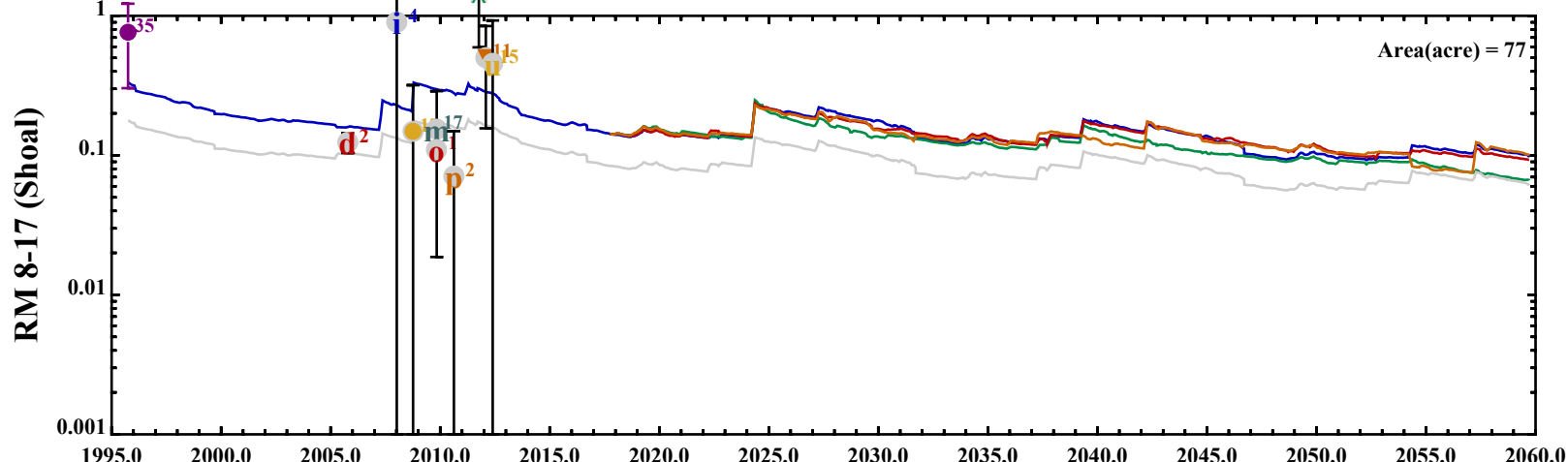
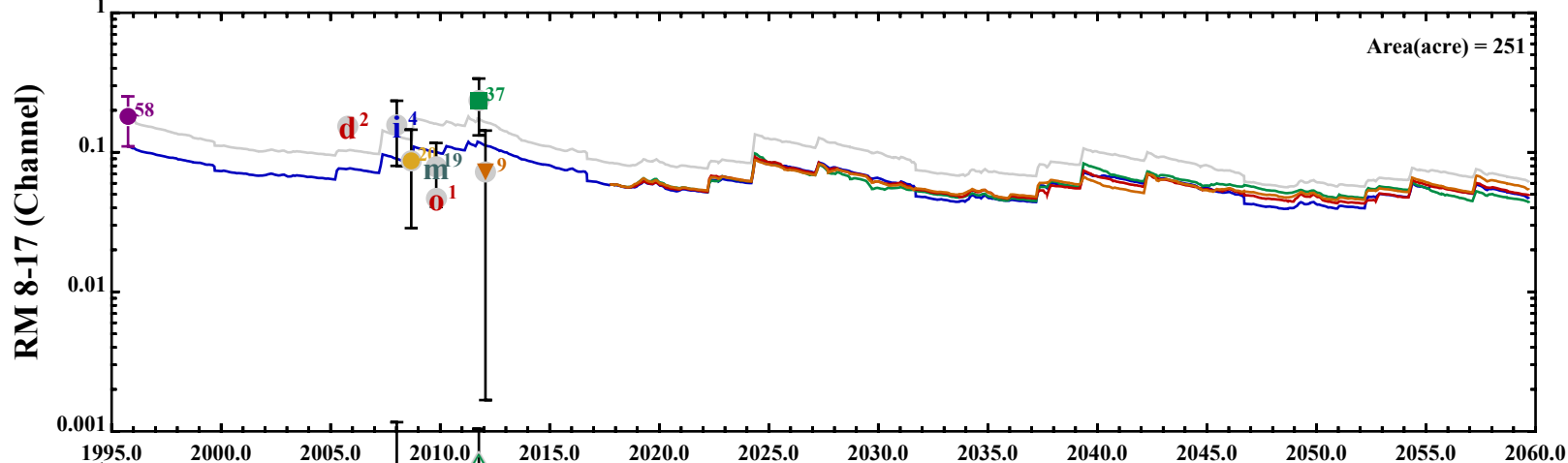
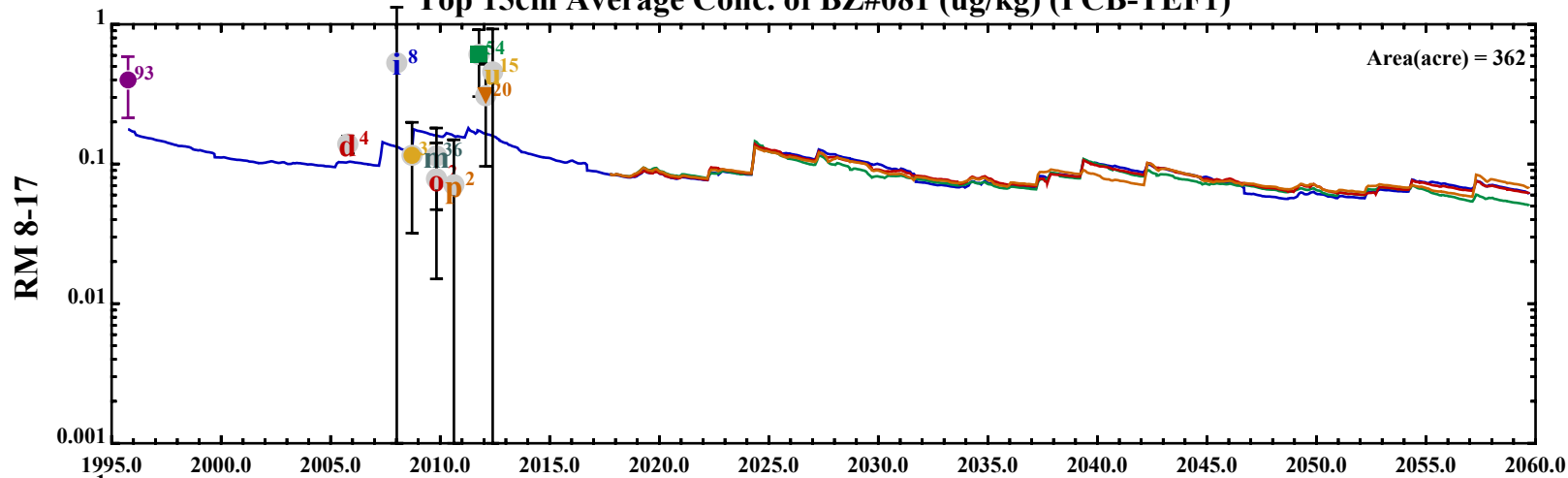
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
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  - a 2000 Spring ESP Sampling Program
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  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

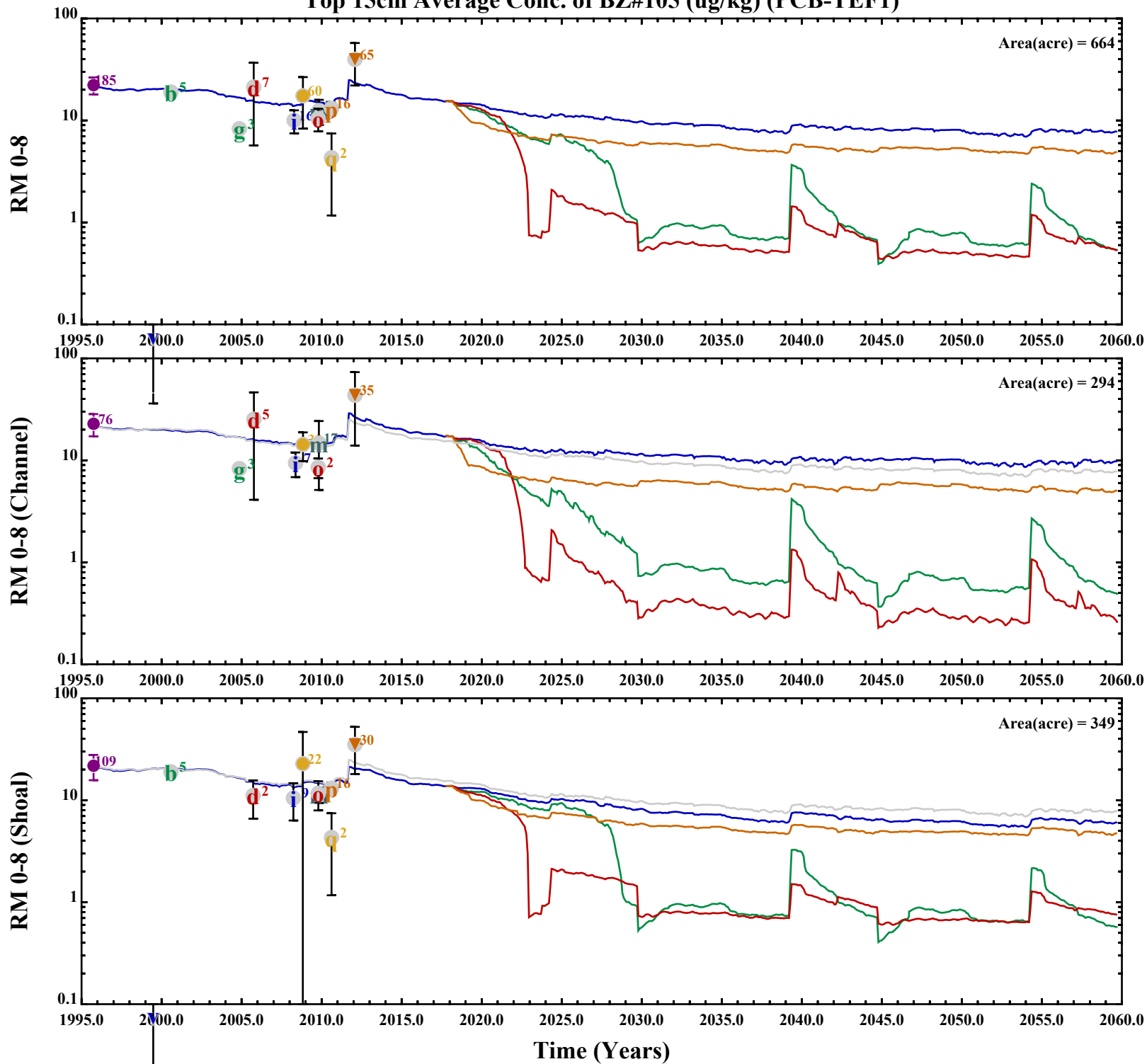
# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

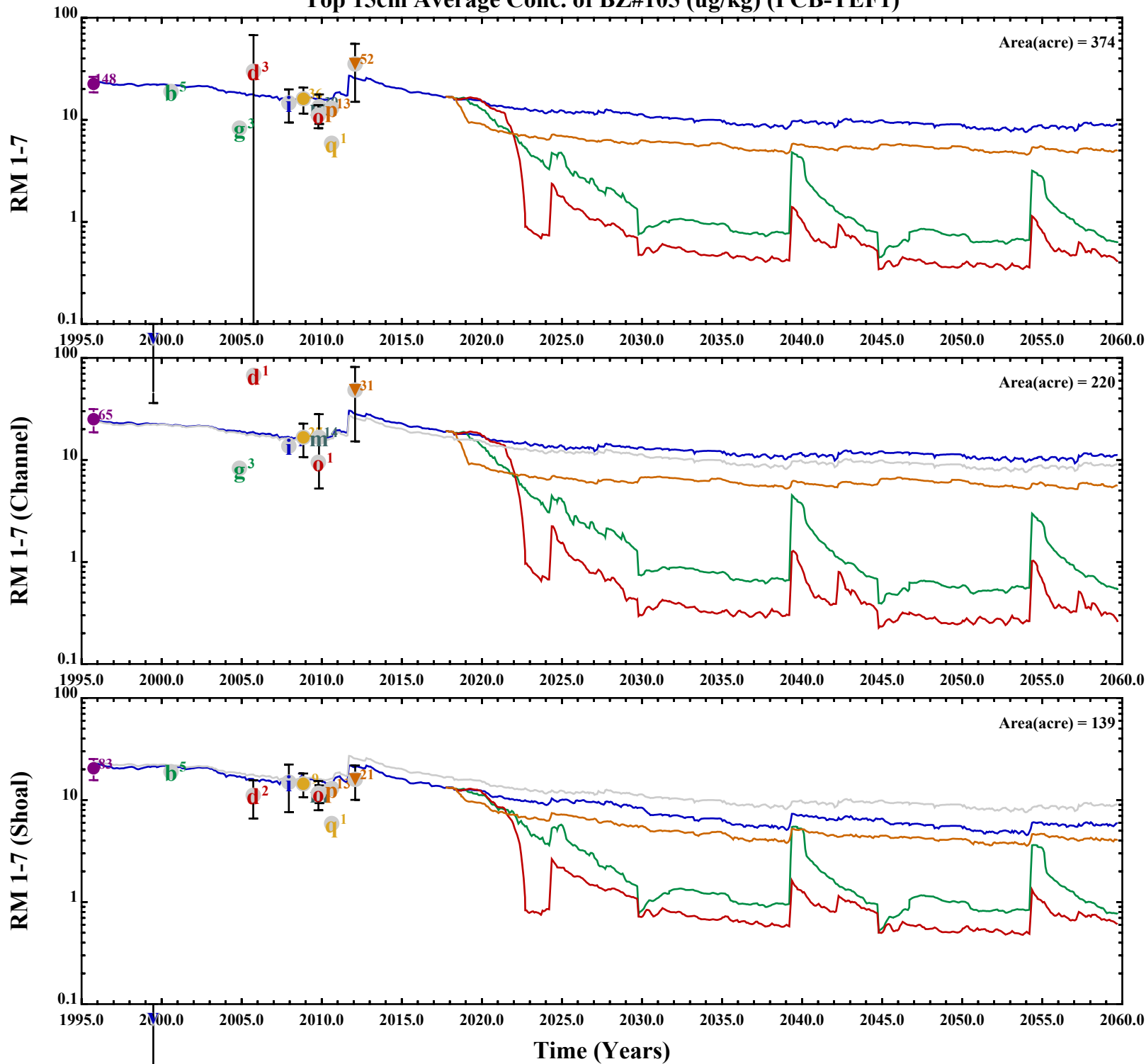
# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

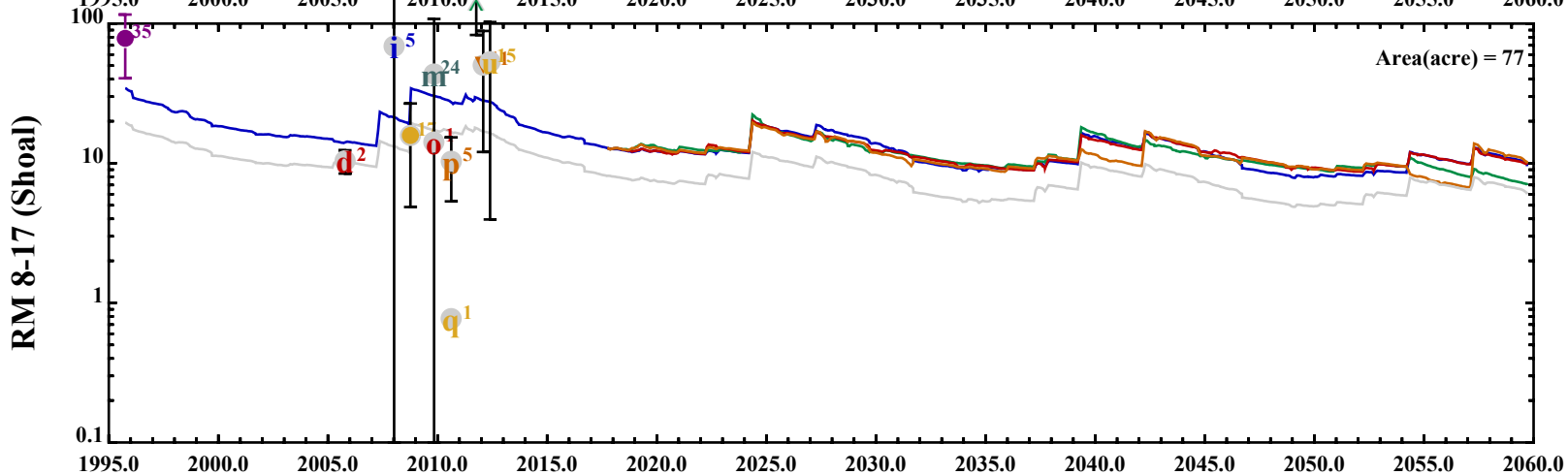
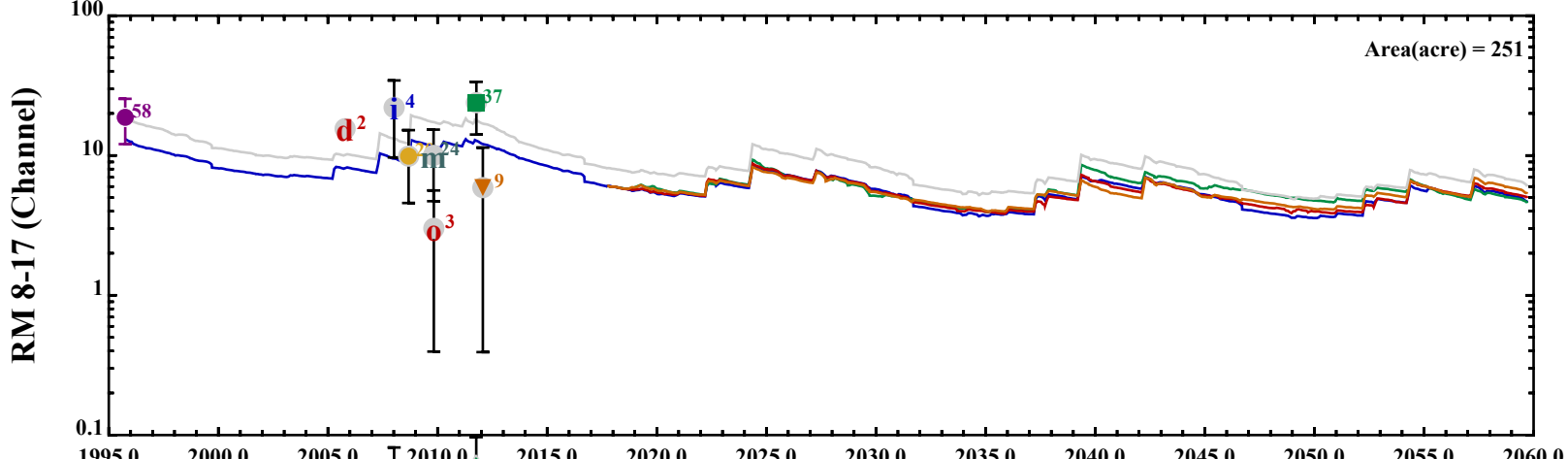
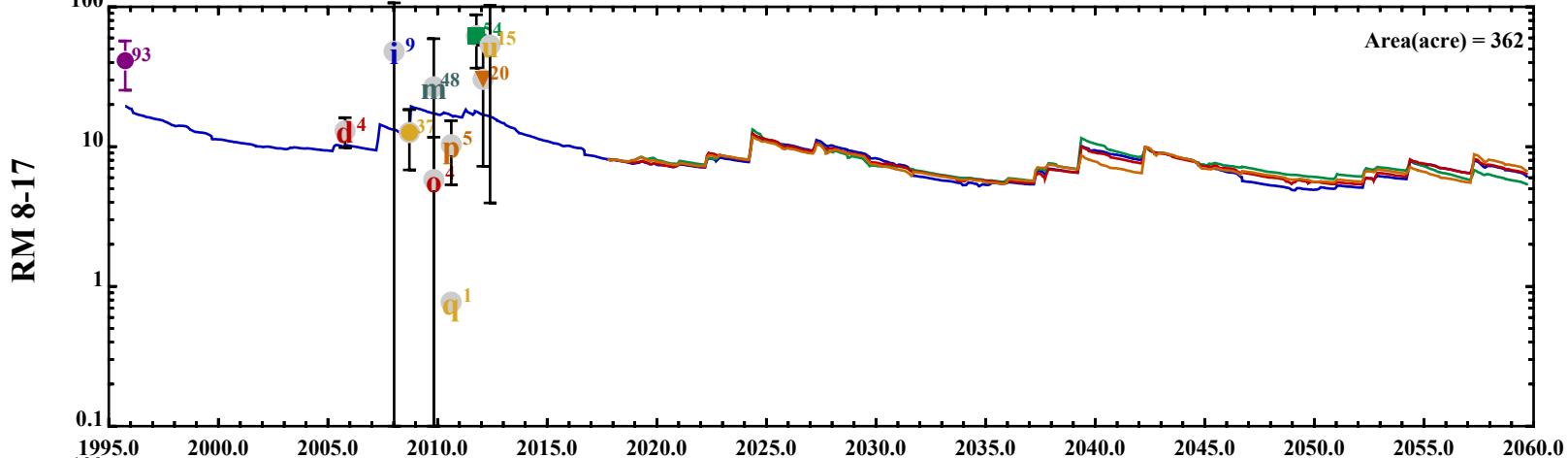


# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

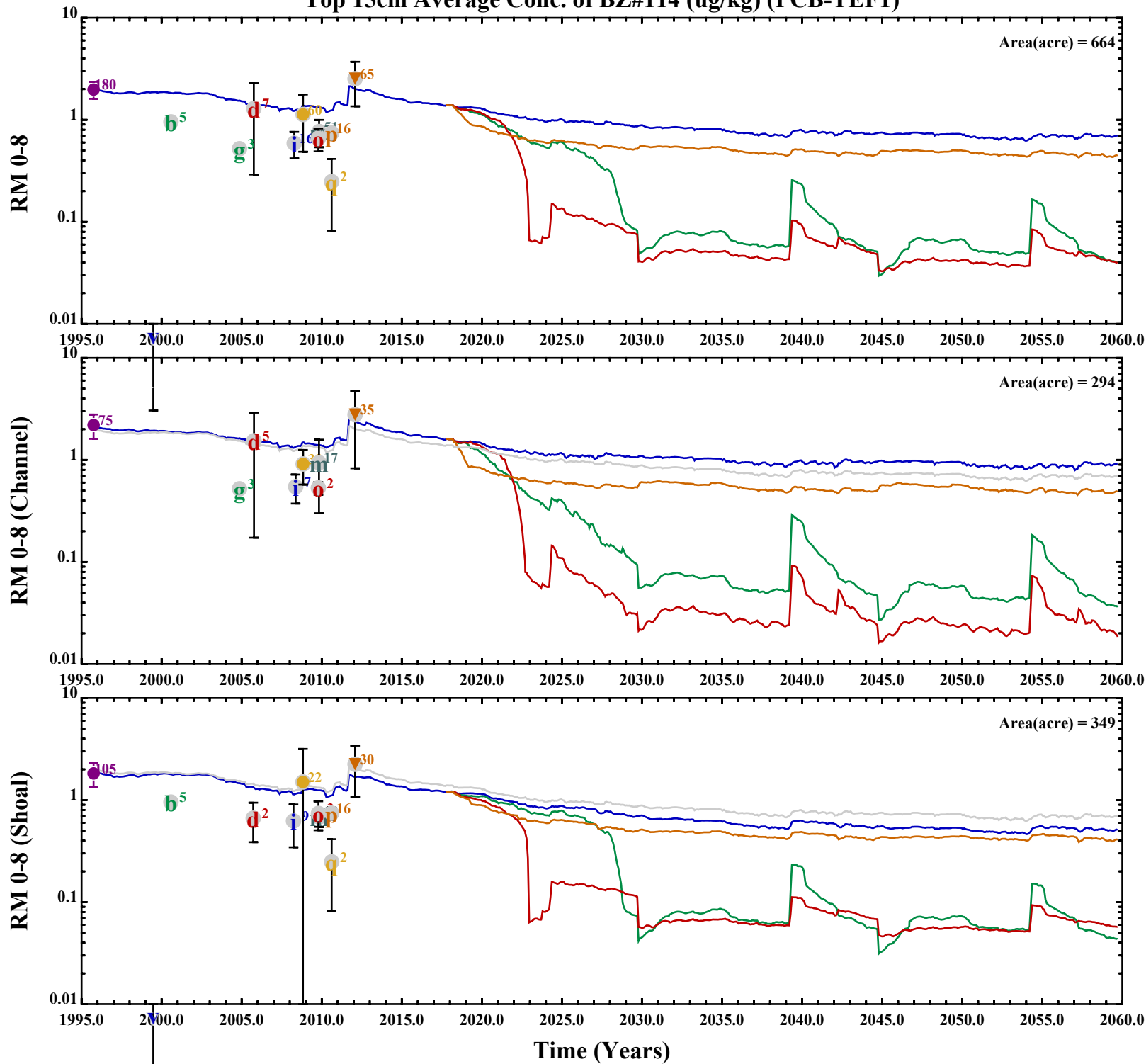
### Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
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  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
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  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith Low Res Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

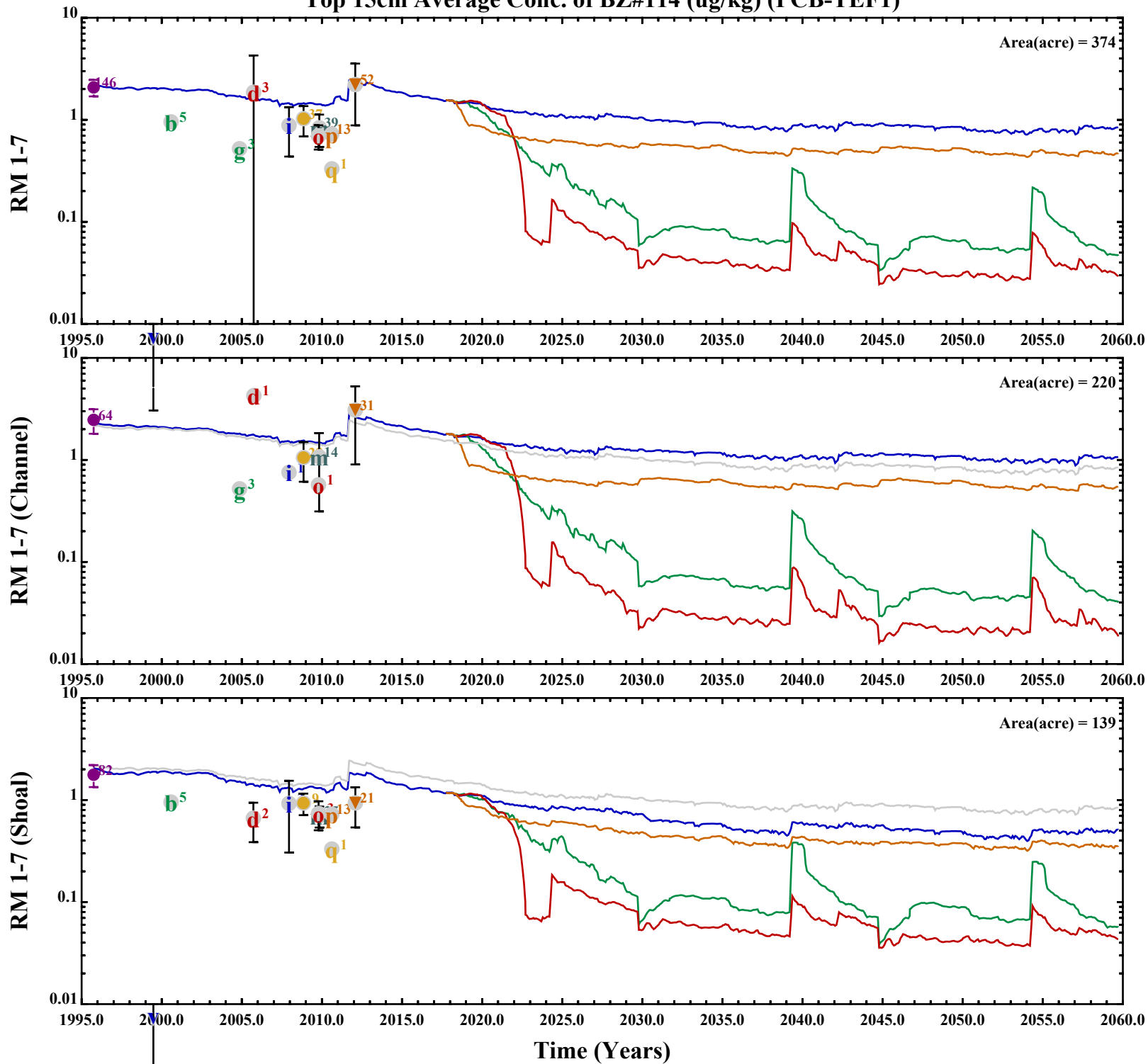
Time (Years)

# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



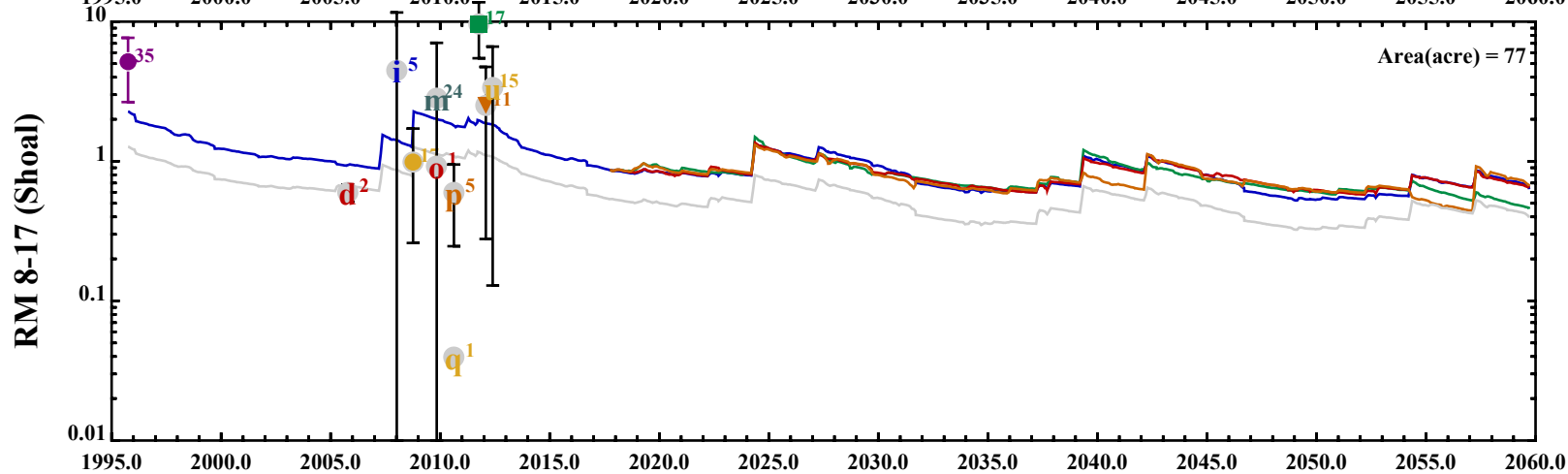
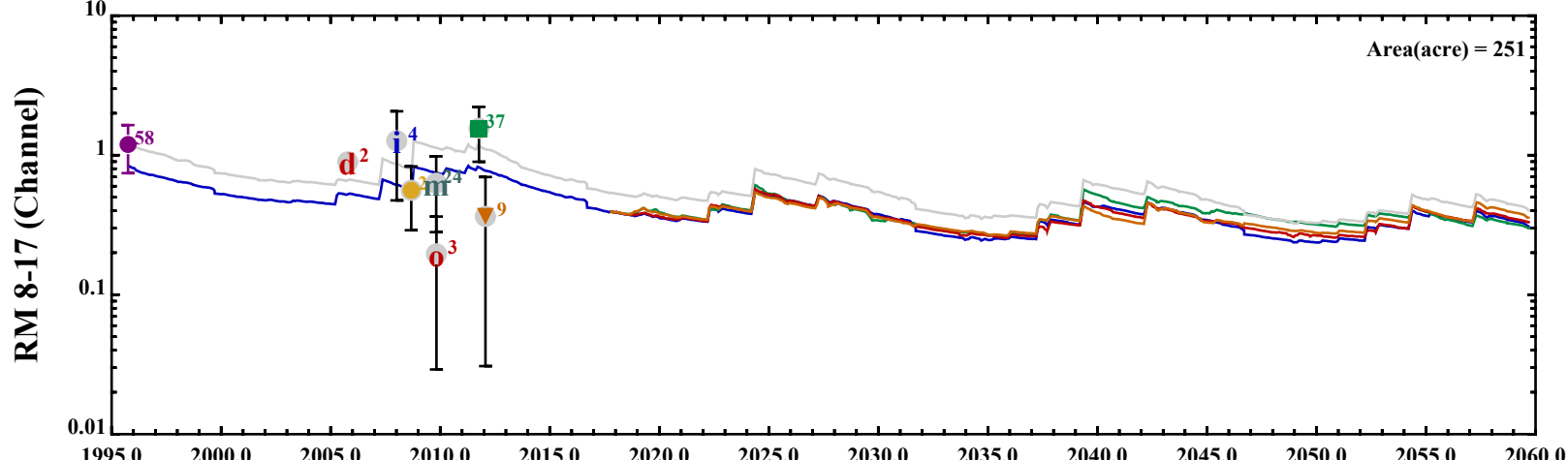
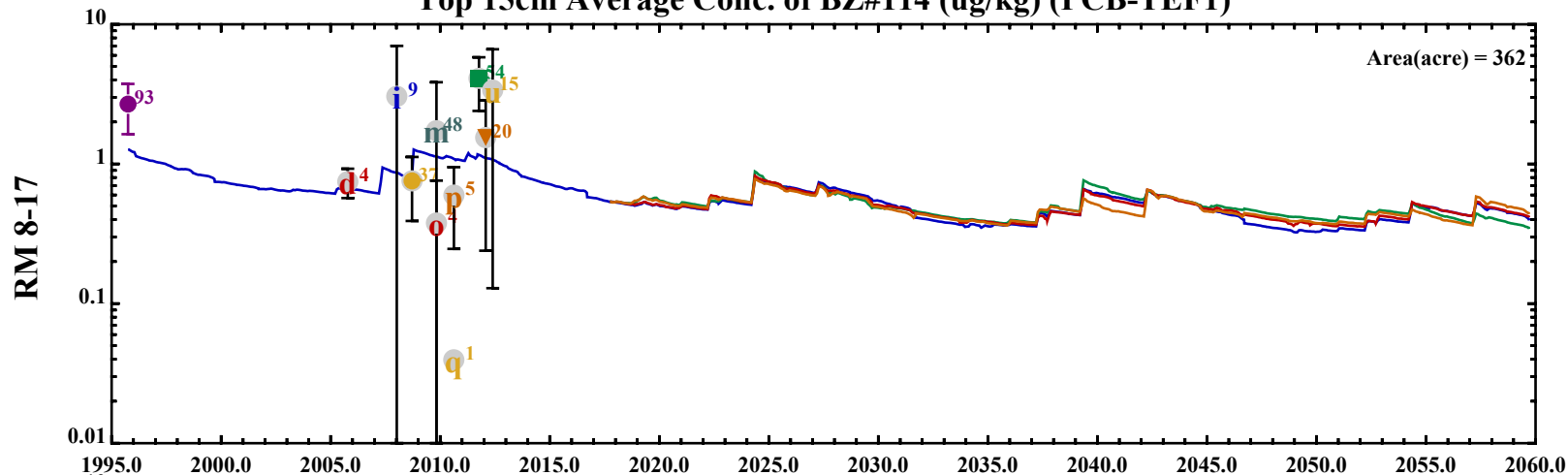
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
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  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
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  - 2011 CPG River Mile 10.9 Data
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

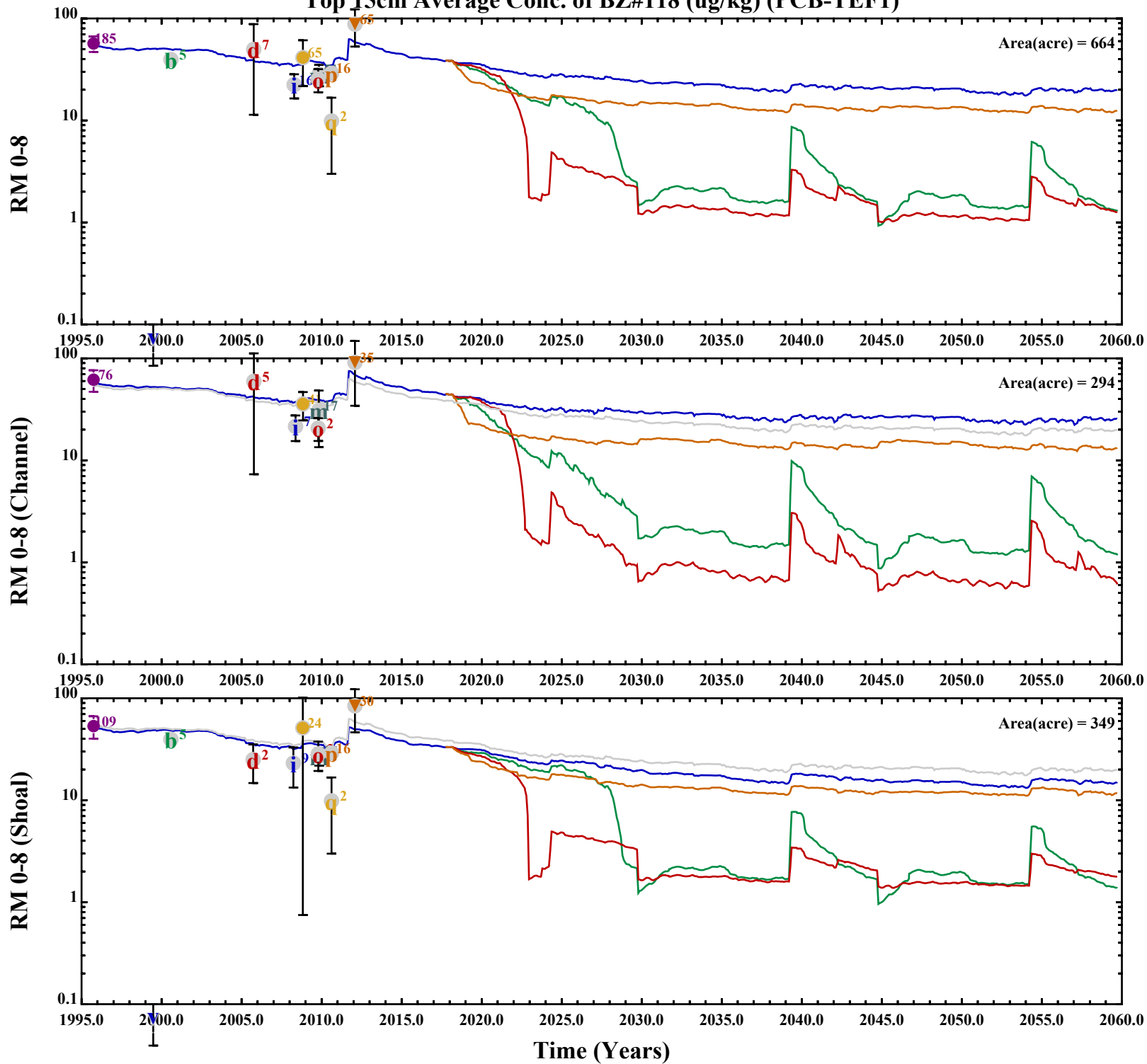
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

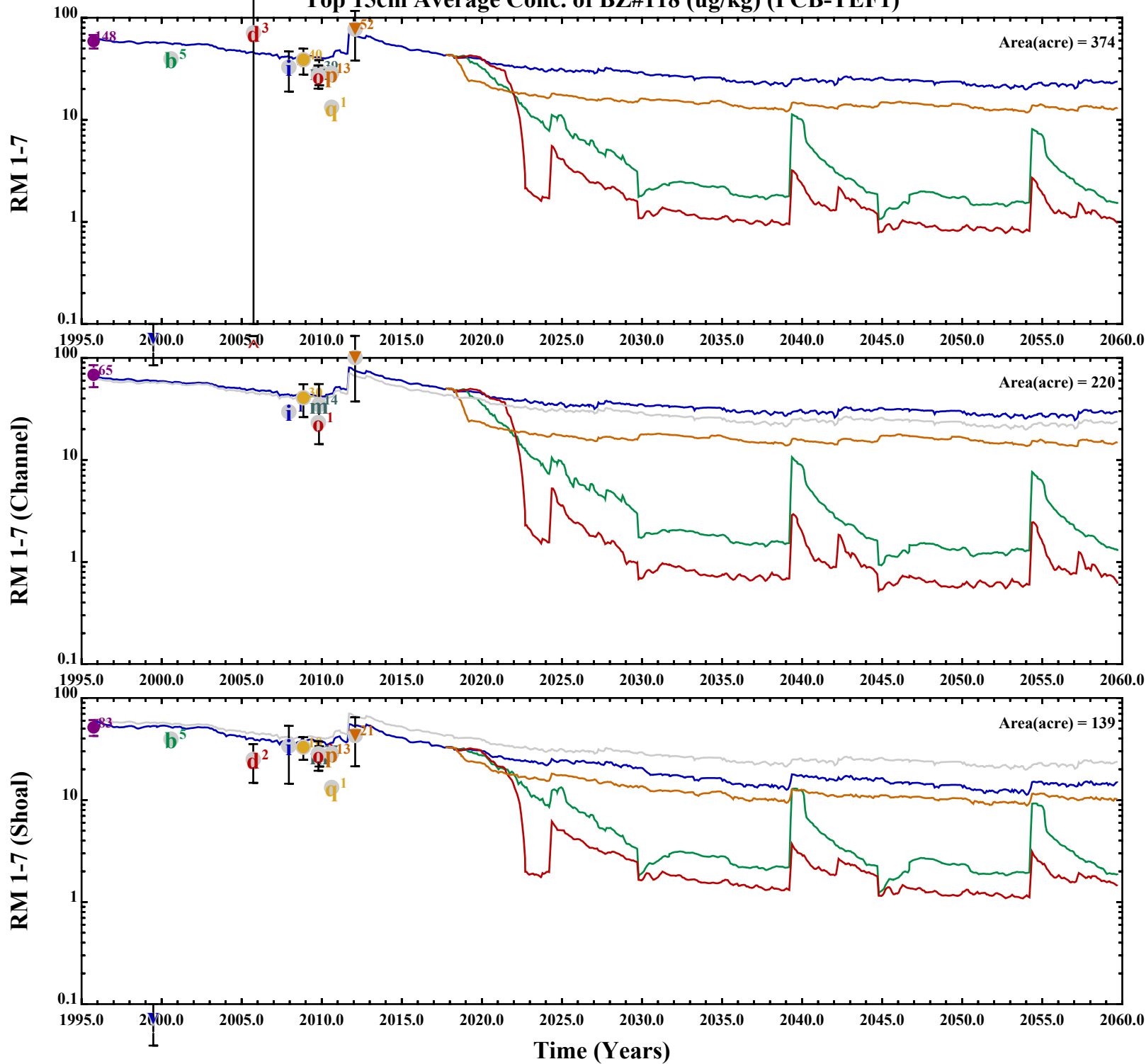
Time (Years)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

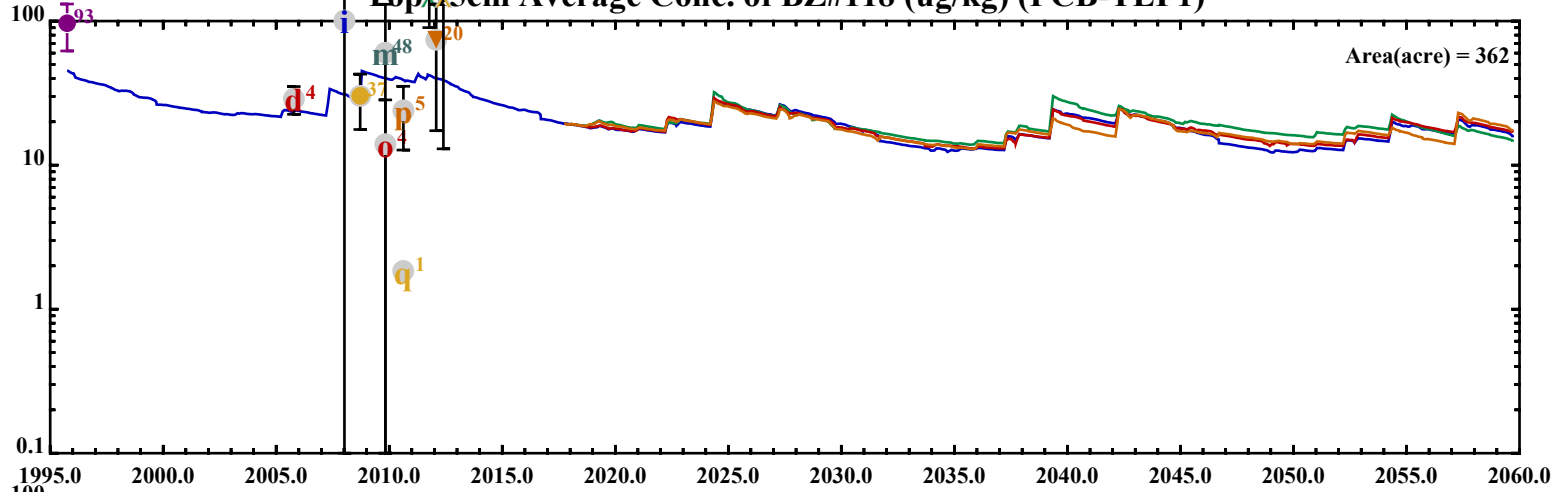
# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



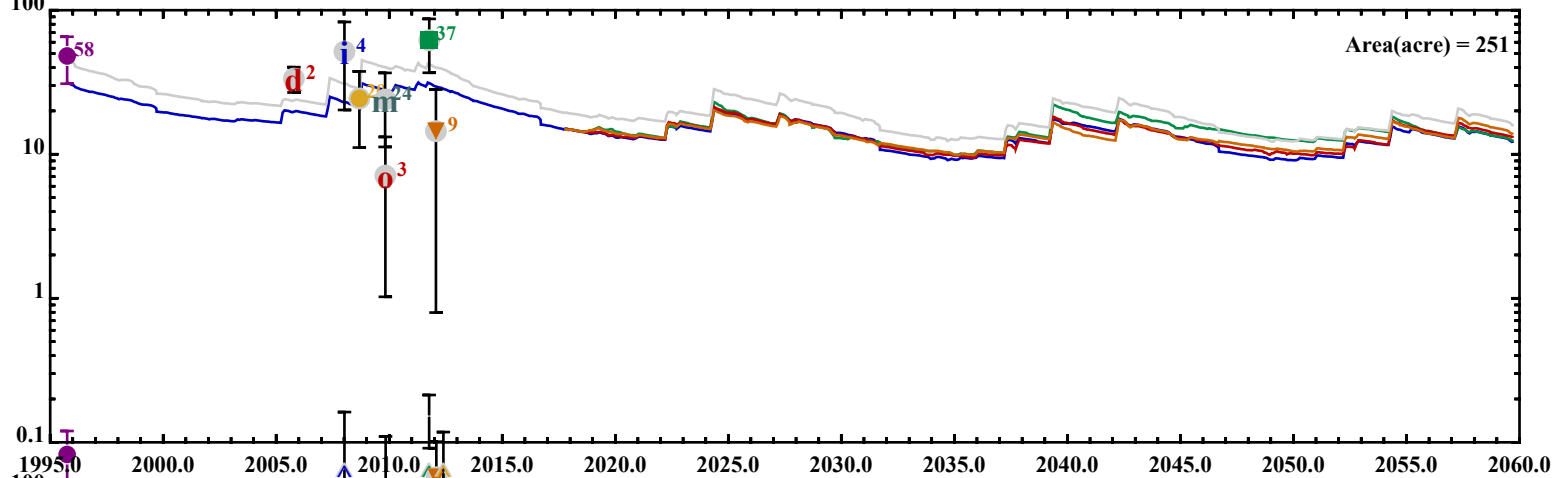
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - l 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - r 2011 CPG River Mile 10.9 Data
  - s 2012 CDMSmith Background Benthic Sediment
  - t 2012 CDMSmith LowRes Coring Supplemental
  - u 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - w 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

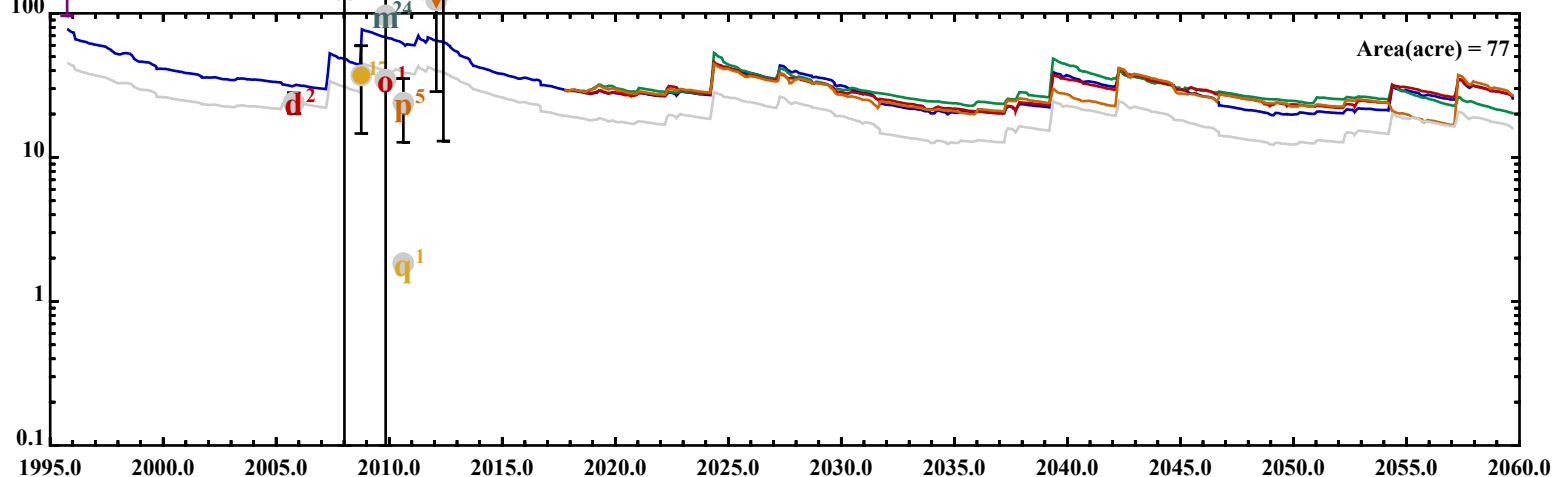
RM 8-17



RM 8-17 (Channel)



RM 8-17 (Shoal)

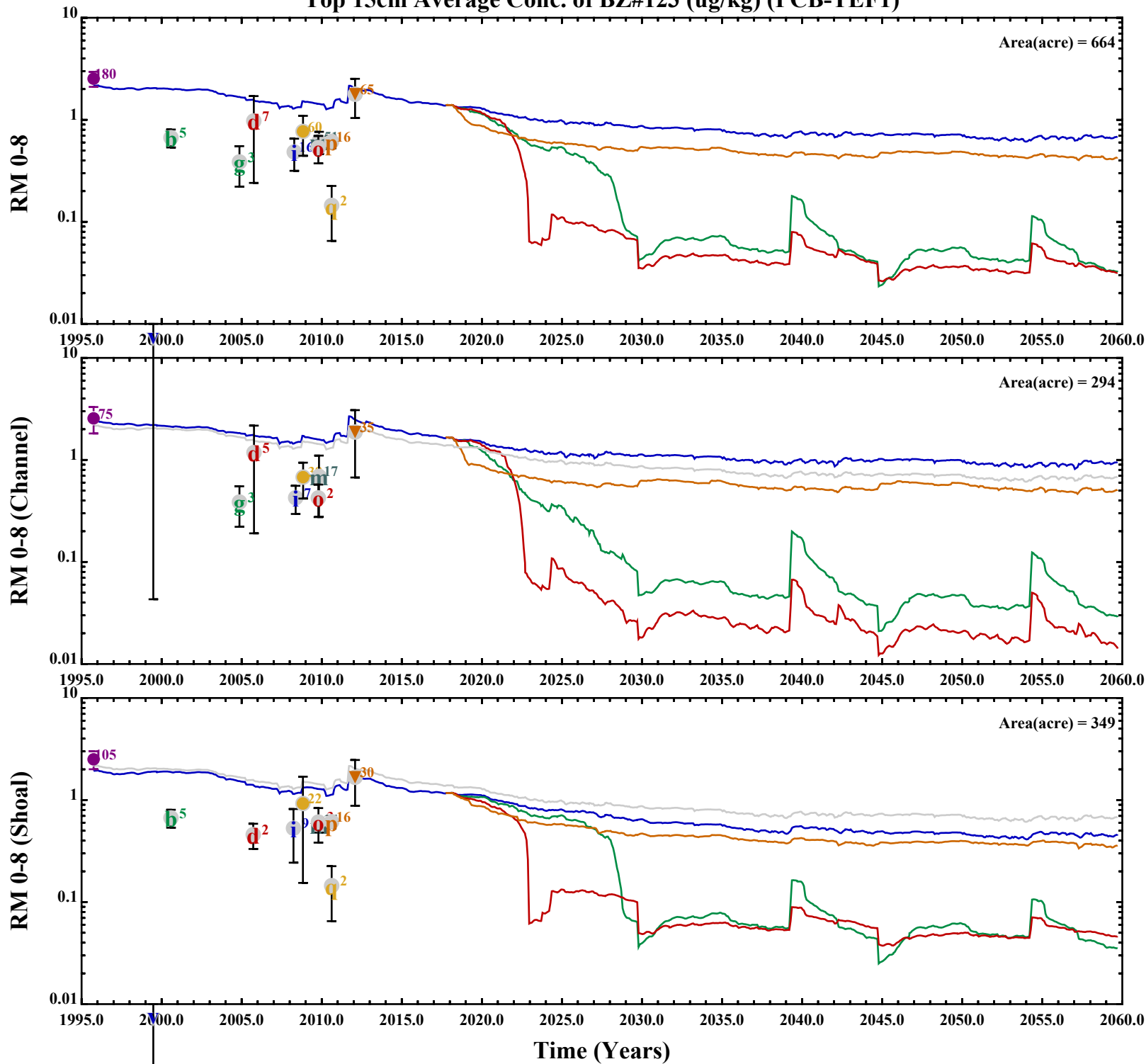


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

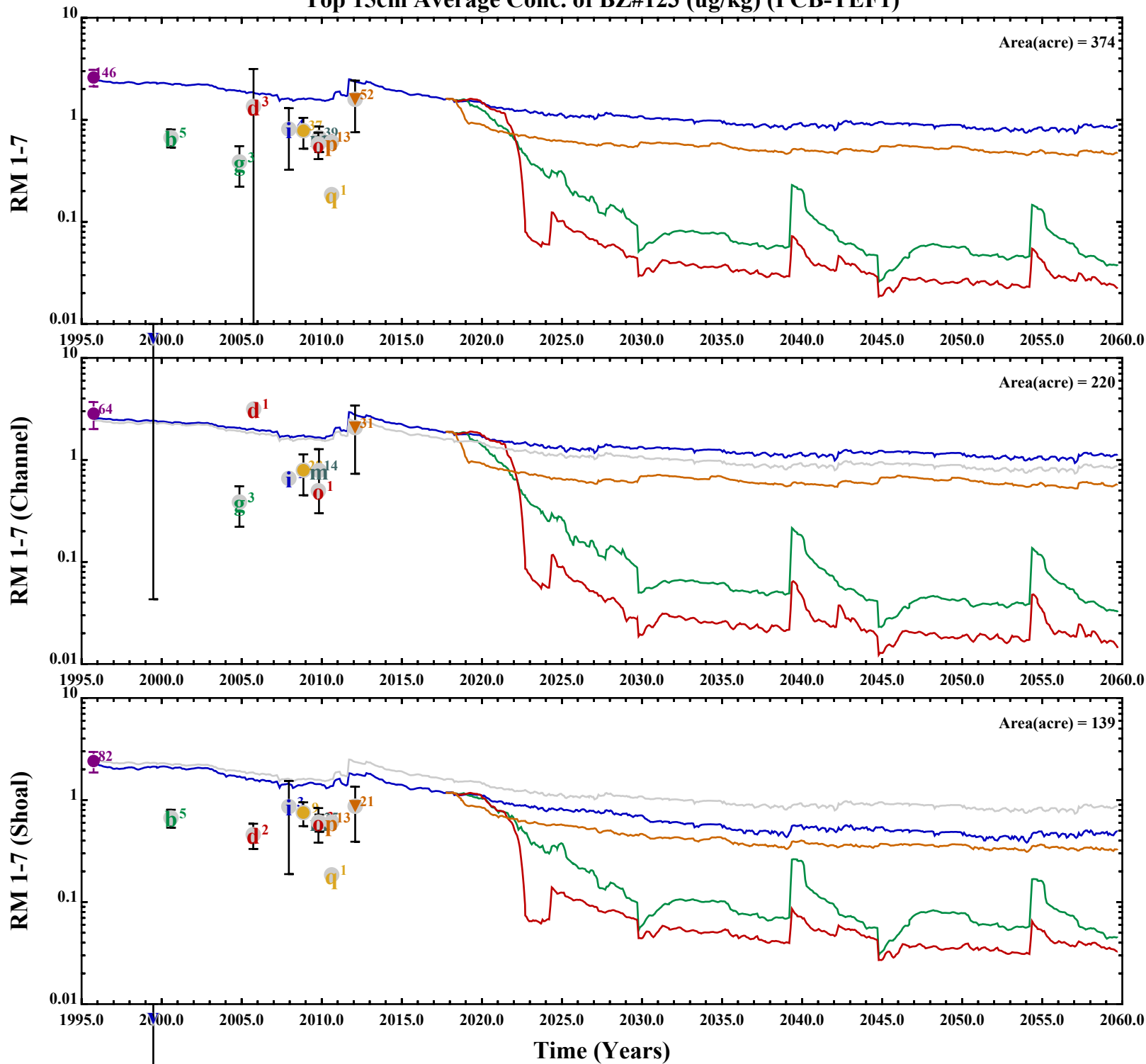


# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



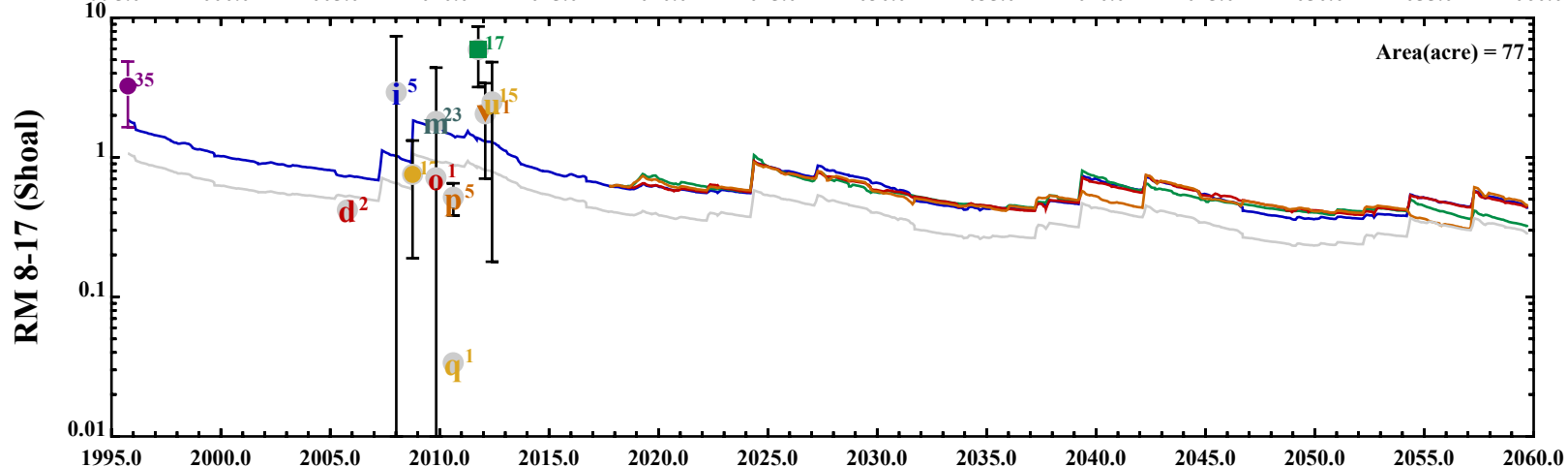
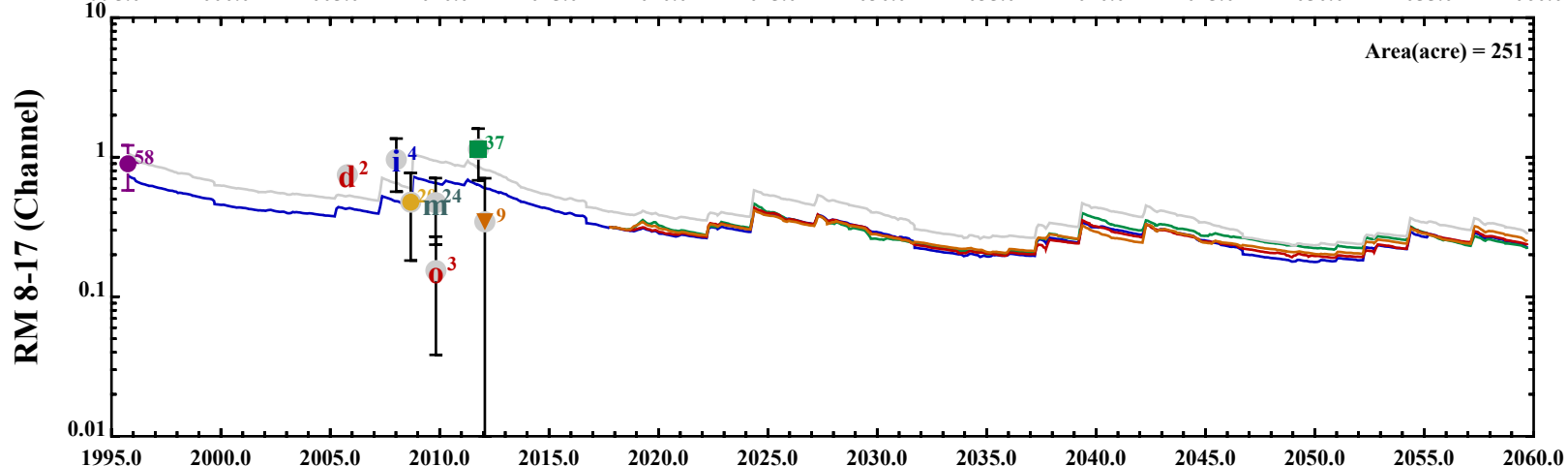
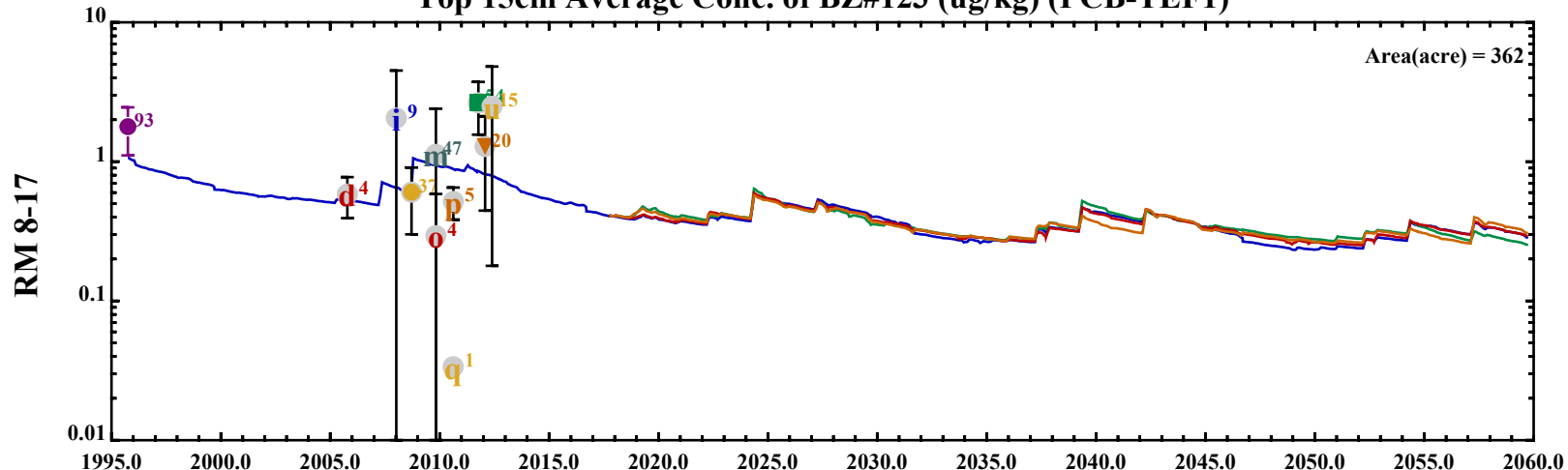
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

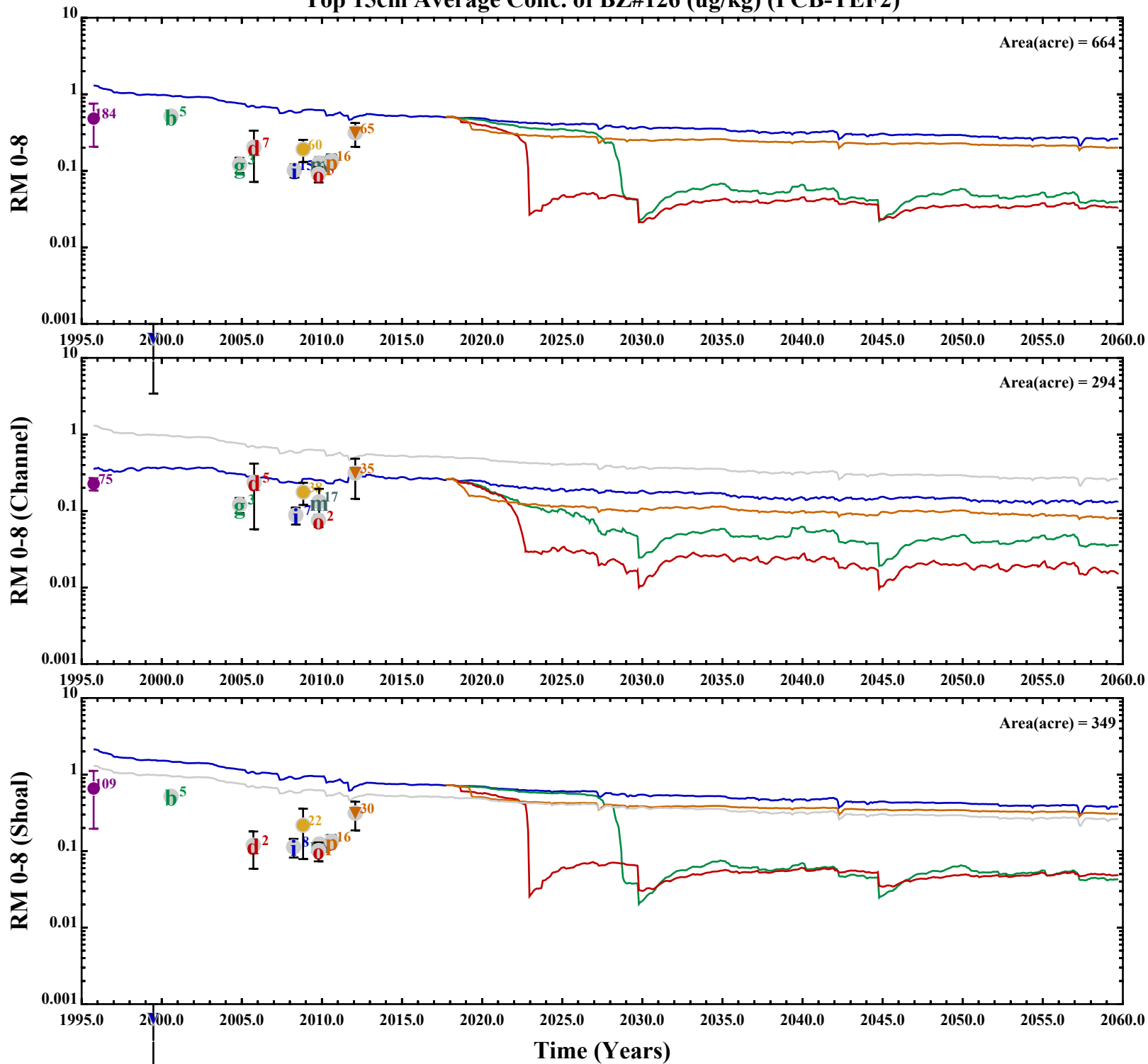
## Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



Time (Years)

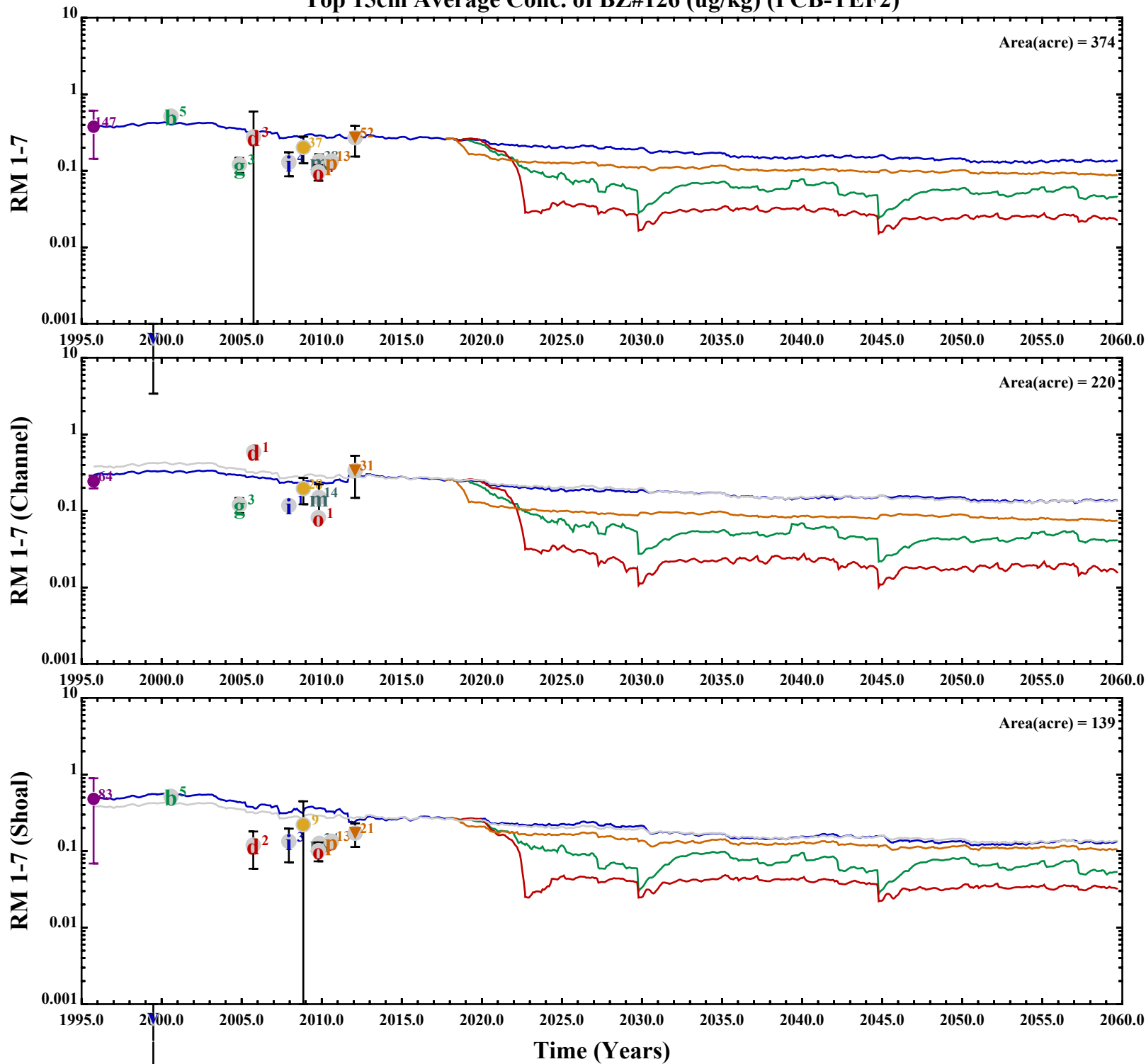
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1994 Core Sediment Investigation
  - 1994 Core Sediment Investigation
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Core Sediment Investigation
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



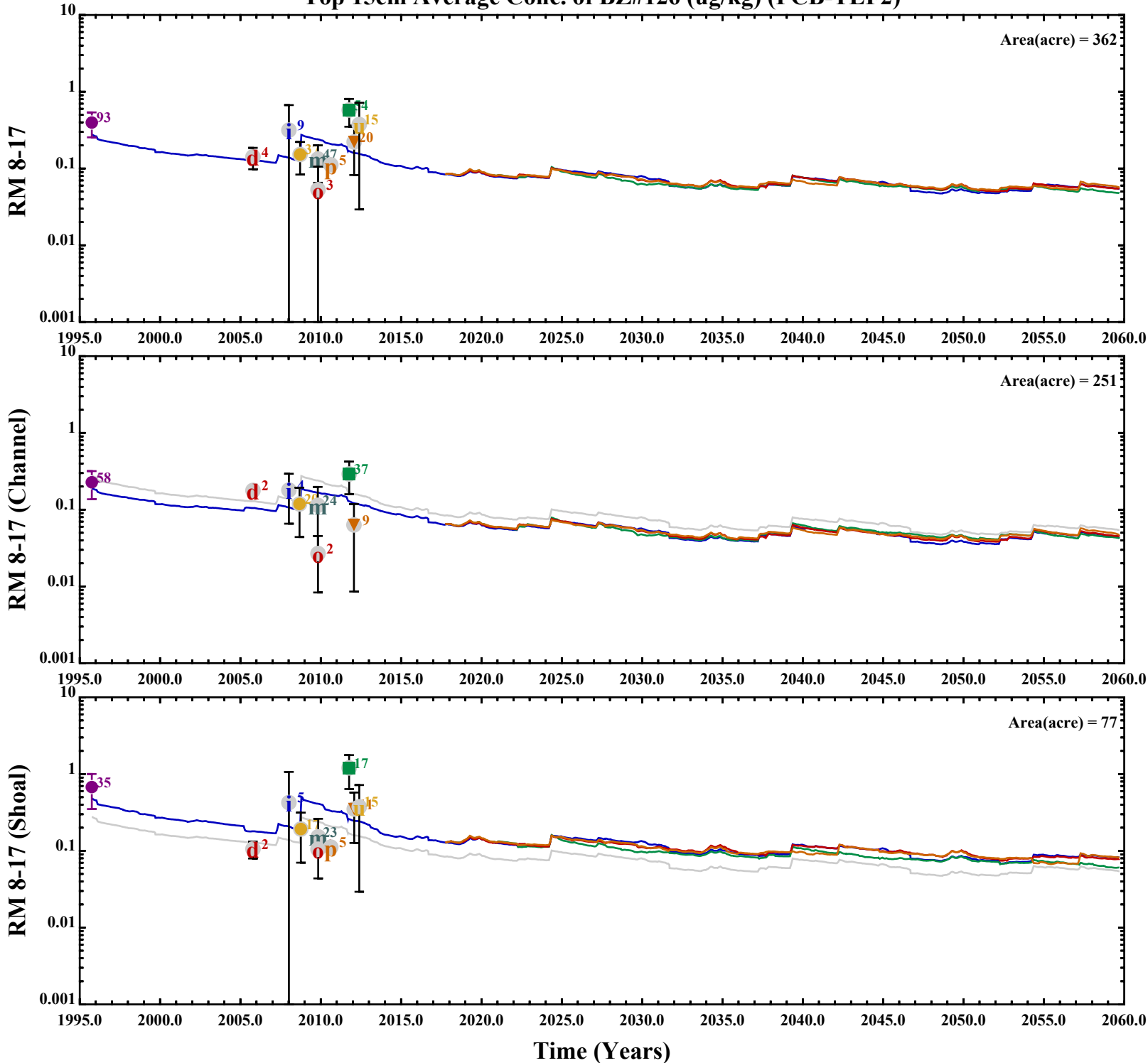
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

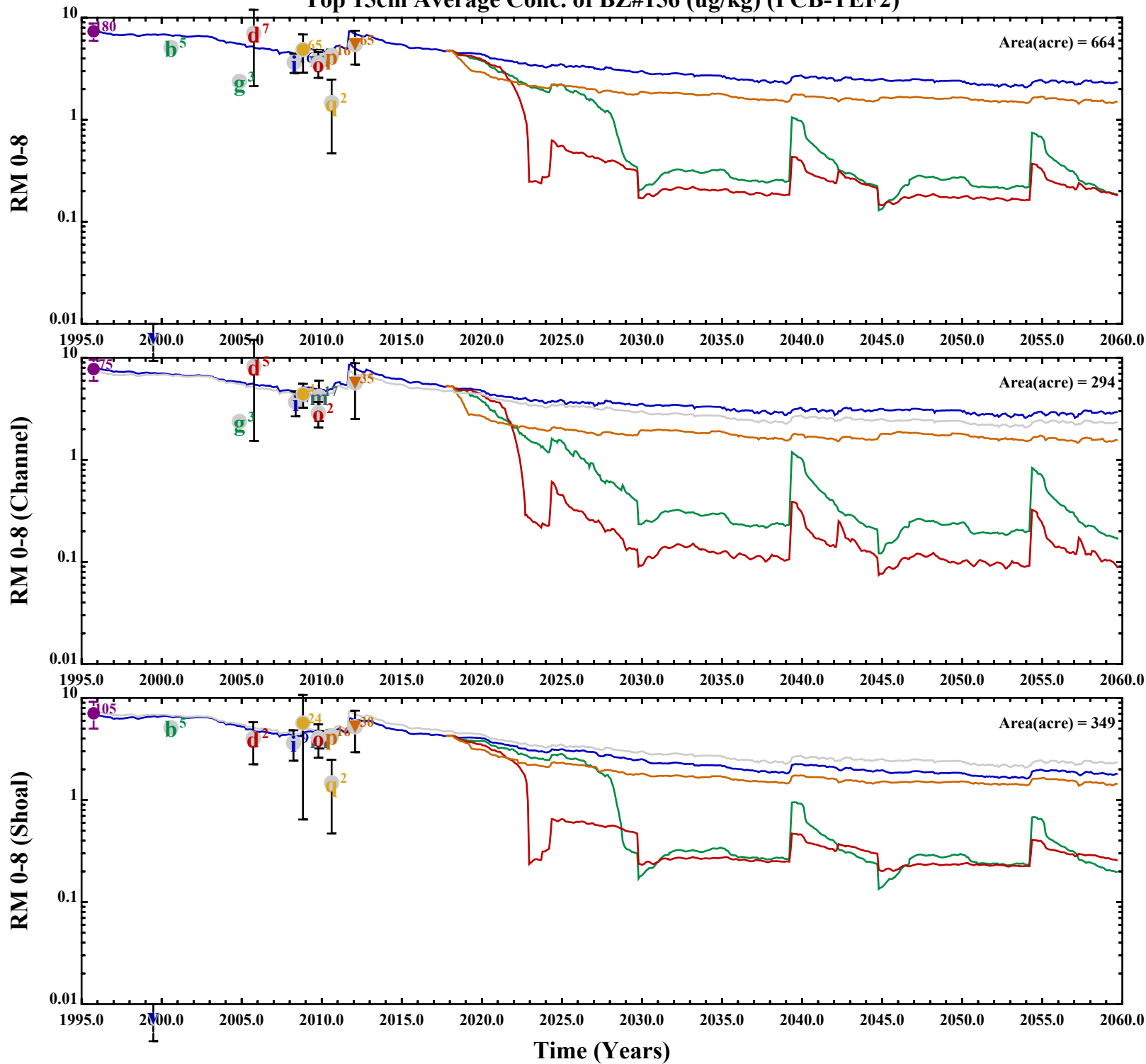


- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

## Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

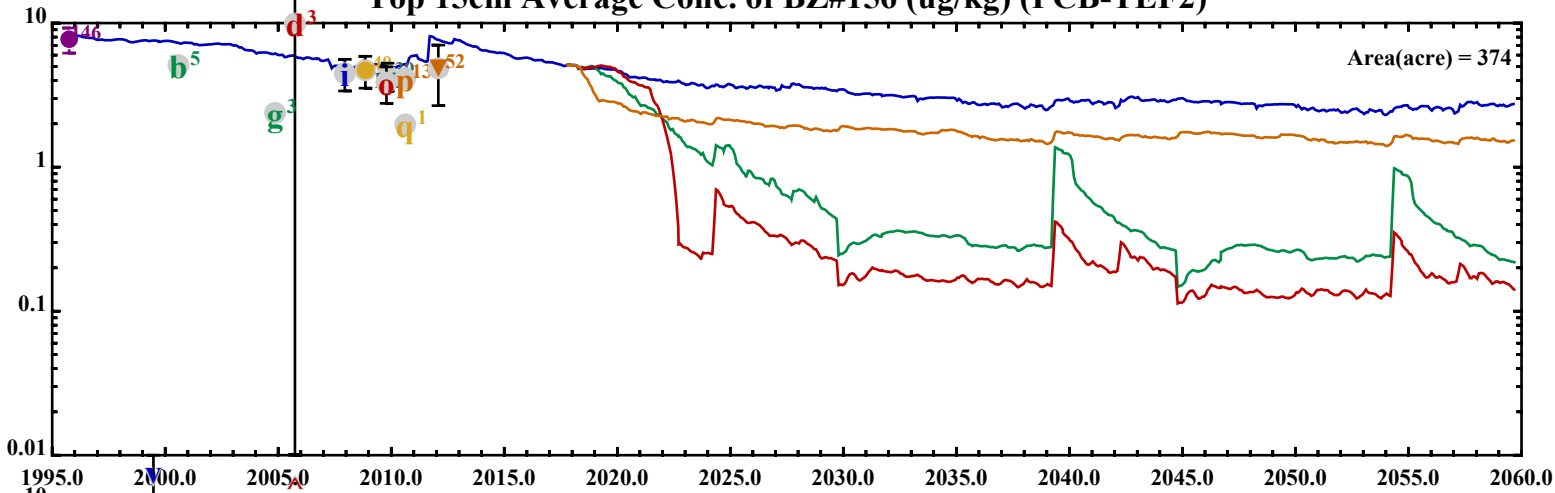


- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

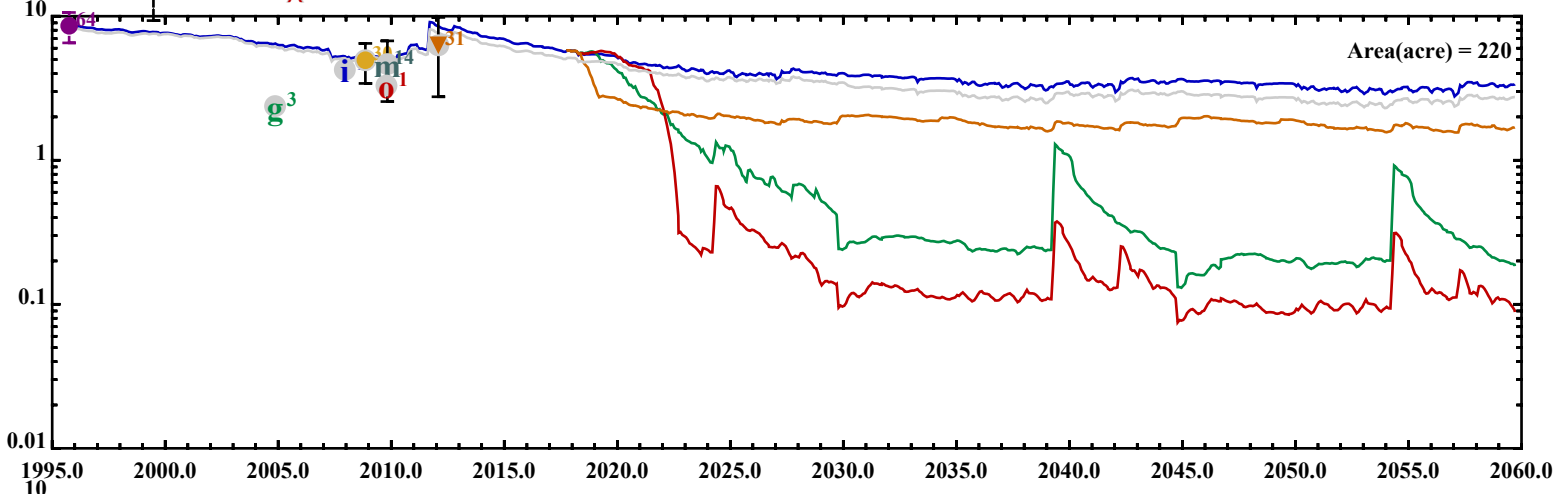
RM 1-7

Area(acre) = 374



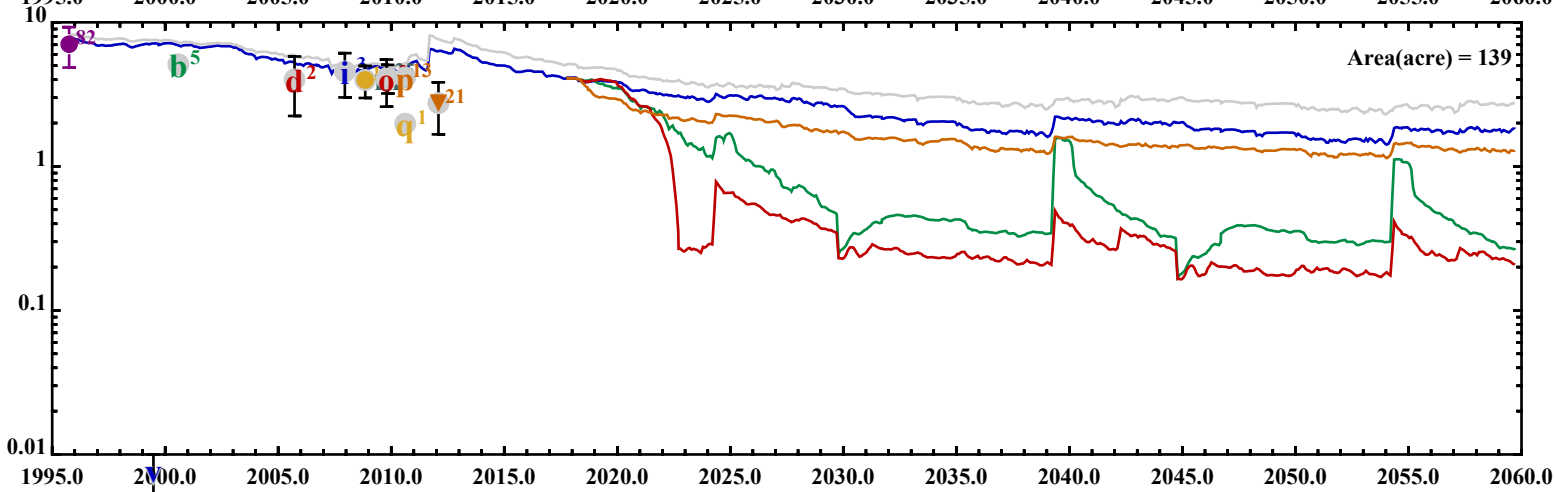
RM 1-7 (Channel)

Area(acre) = 220



RM 1-7 (Shoal)

Area(acre) = 139



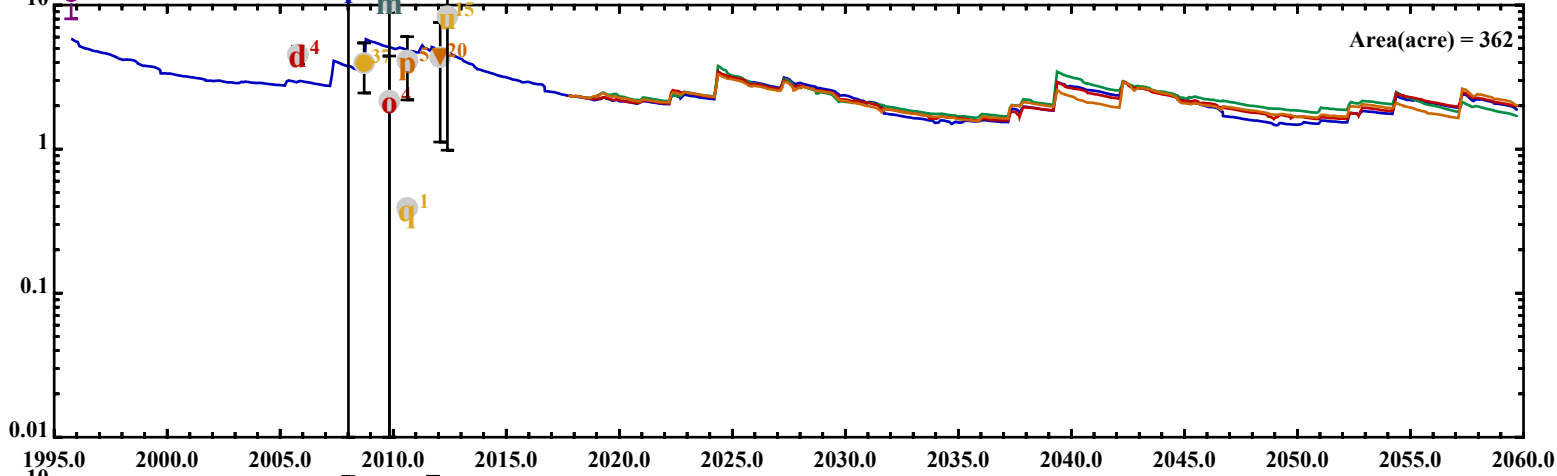
Time (Years)

- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

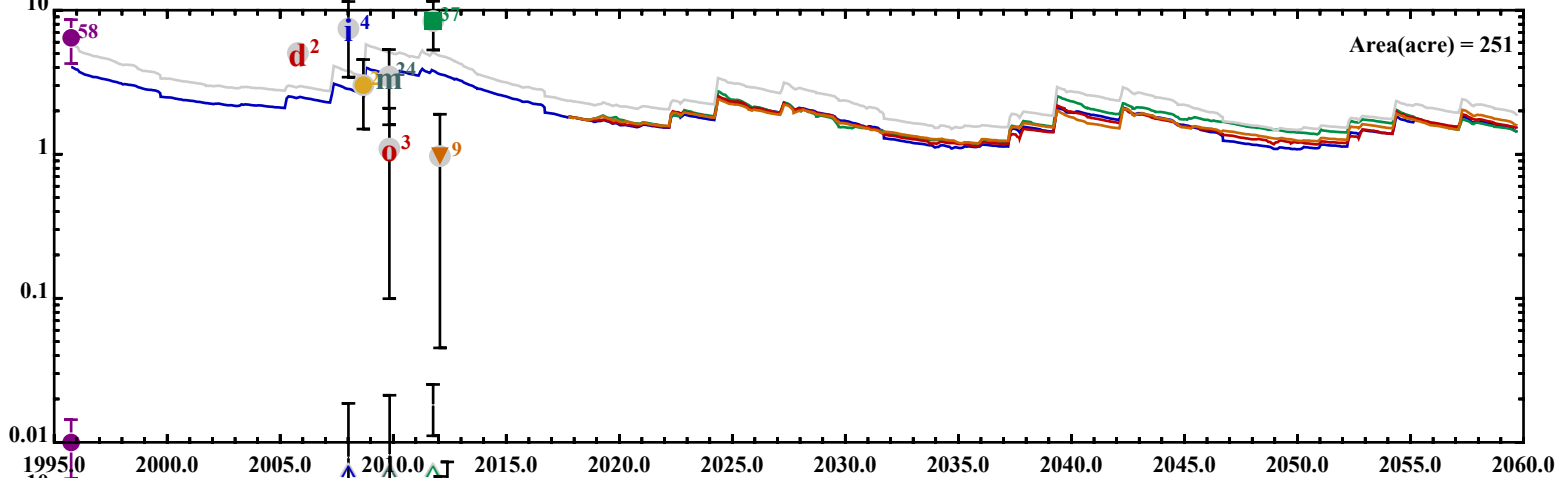


# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

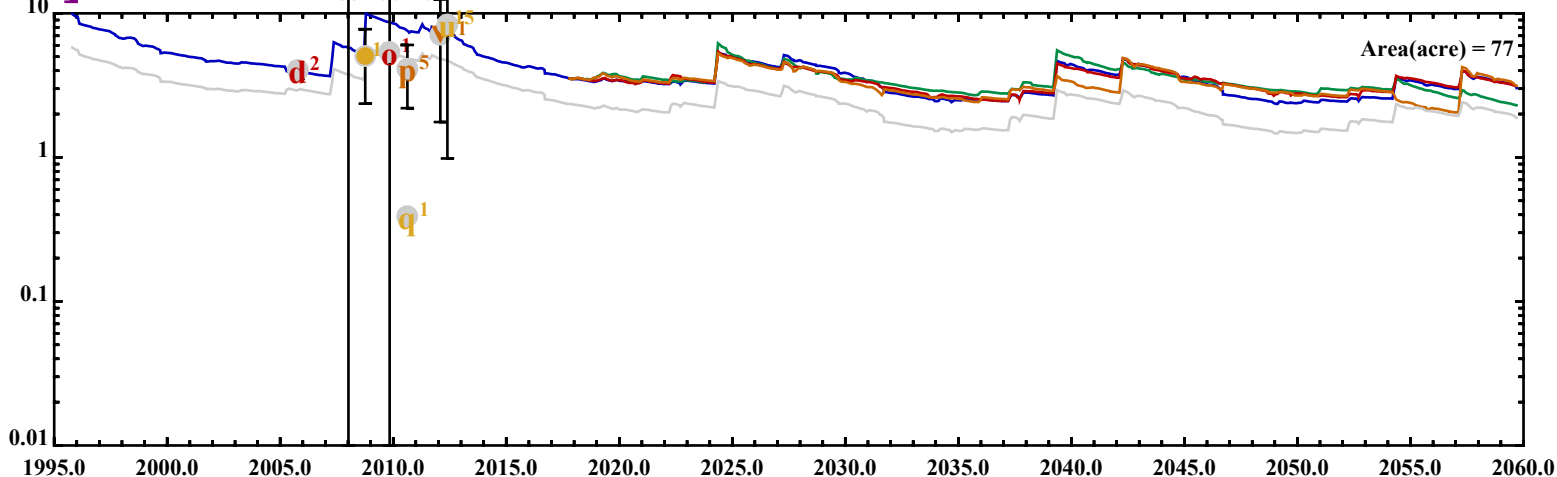
RM 8-17



RM 8-17 (Channel)



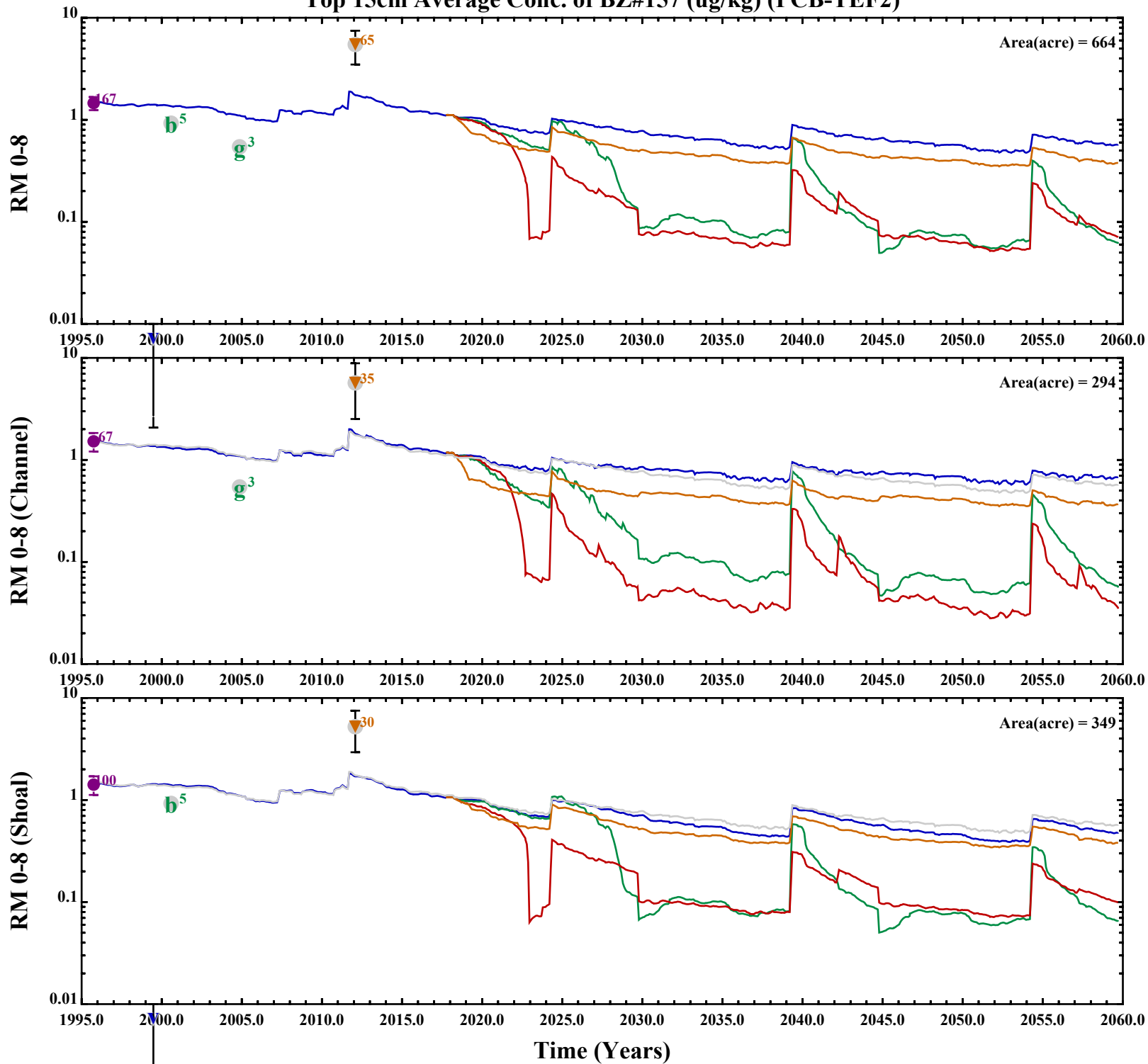
RM 8-17 (Shoal)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

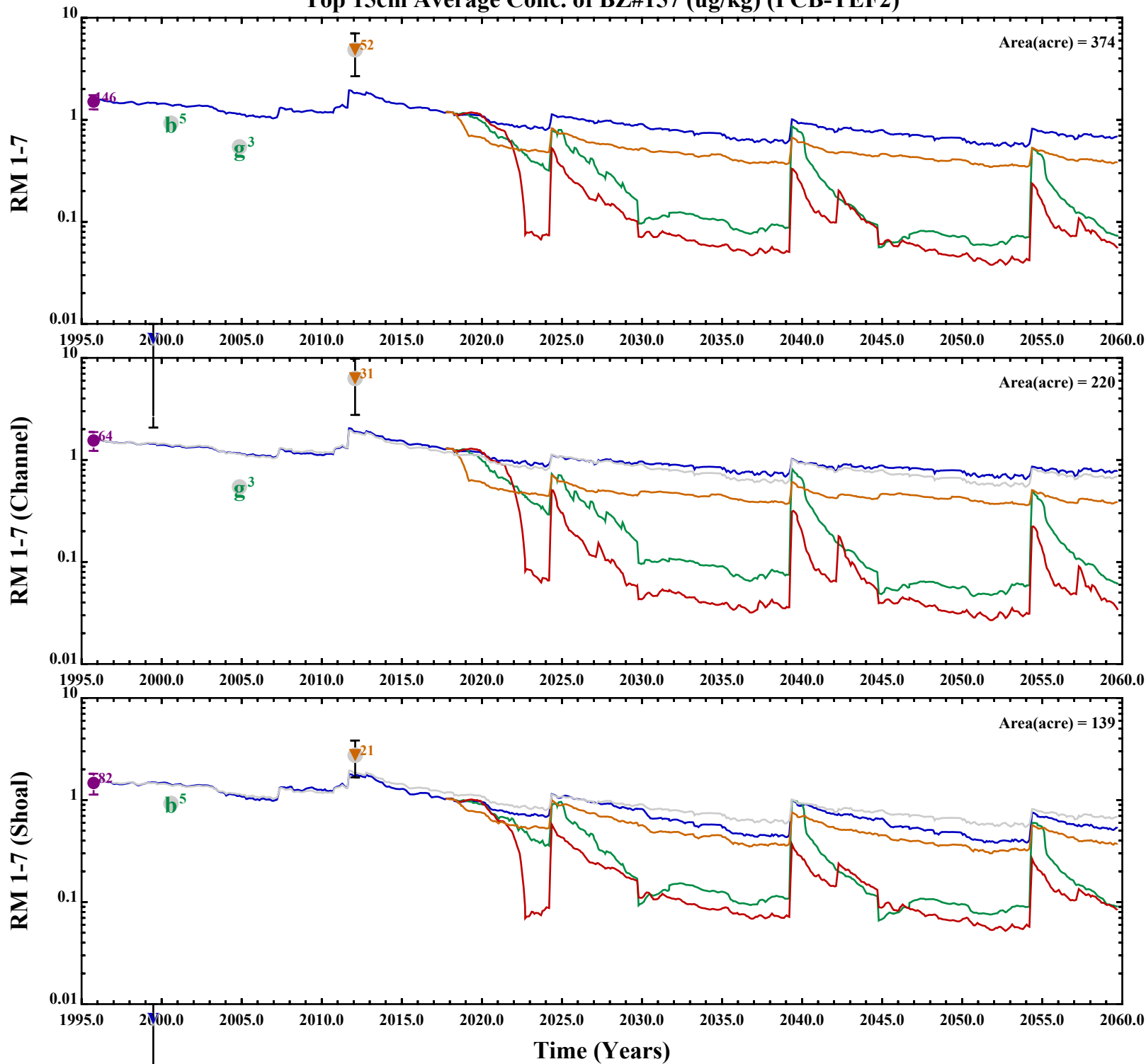
Time (Years)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- Data used for ICs
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

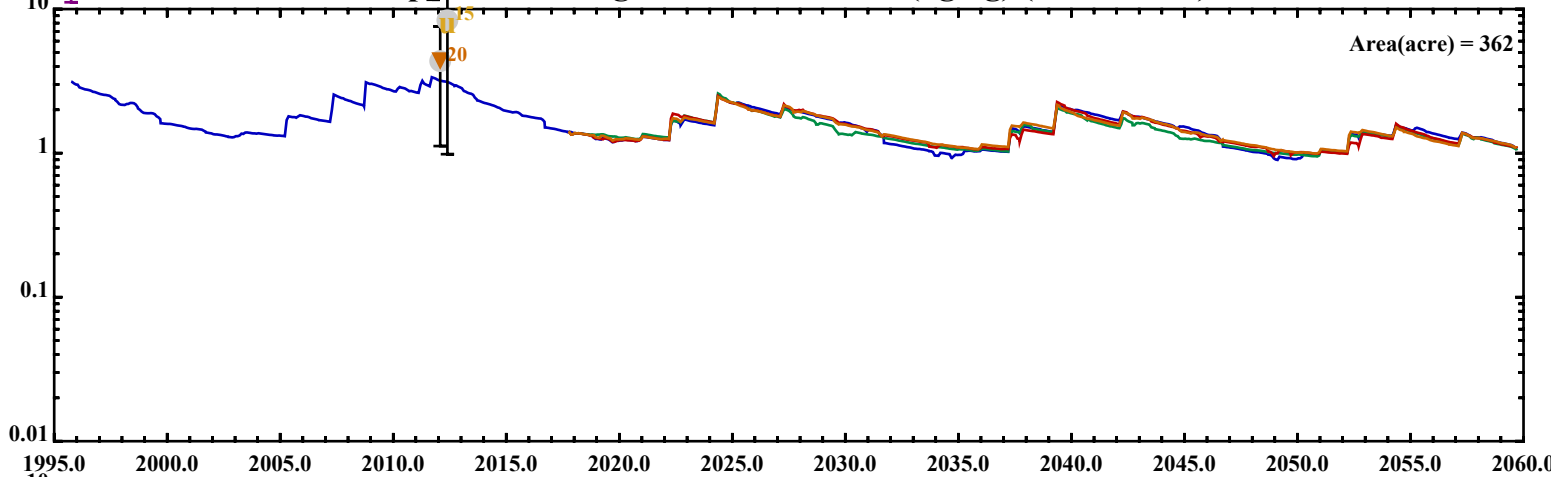


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - ● 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - ■ 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

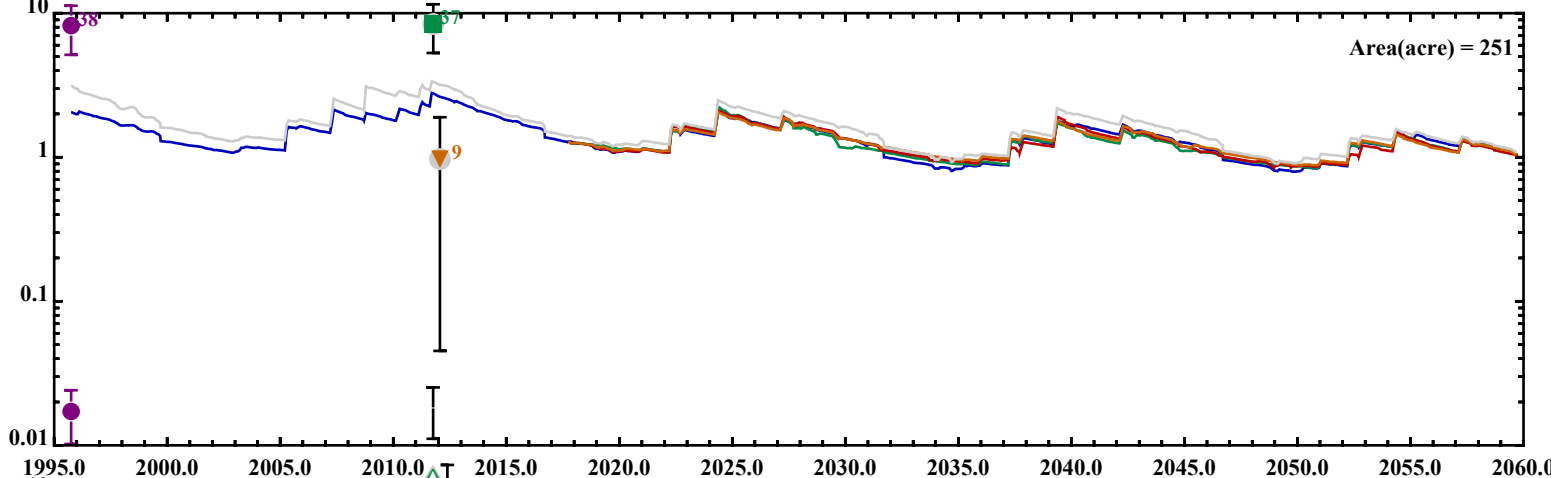
RM 8-17

Area(acre) = 362



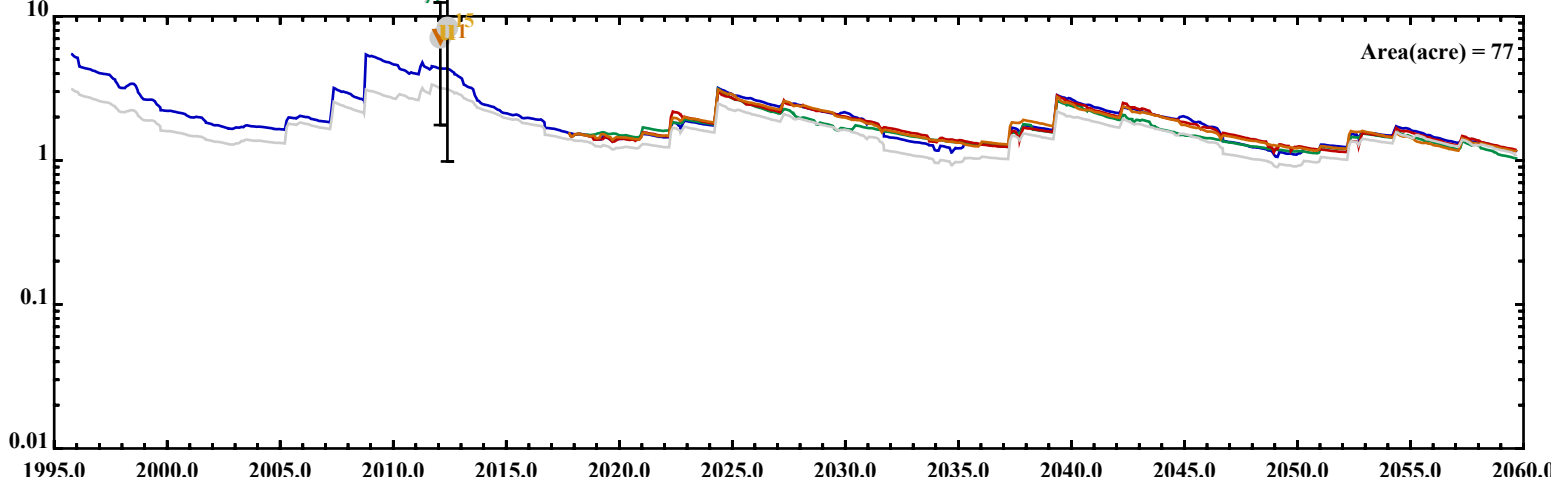
RM 8-17 (Channel)

Area(acre) = 251



RM 8-17 (Shoal)

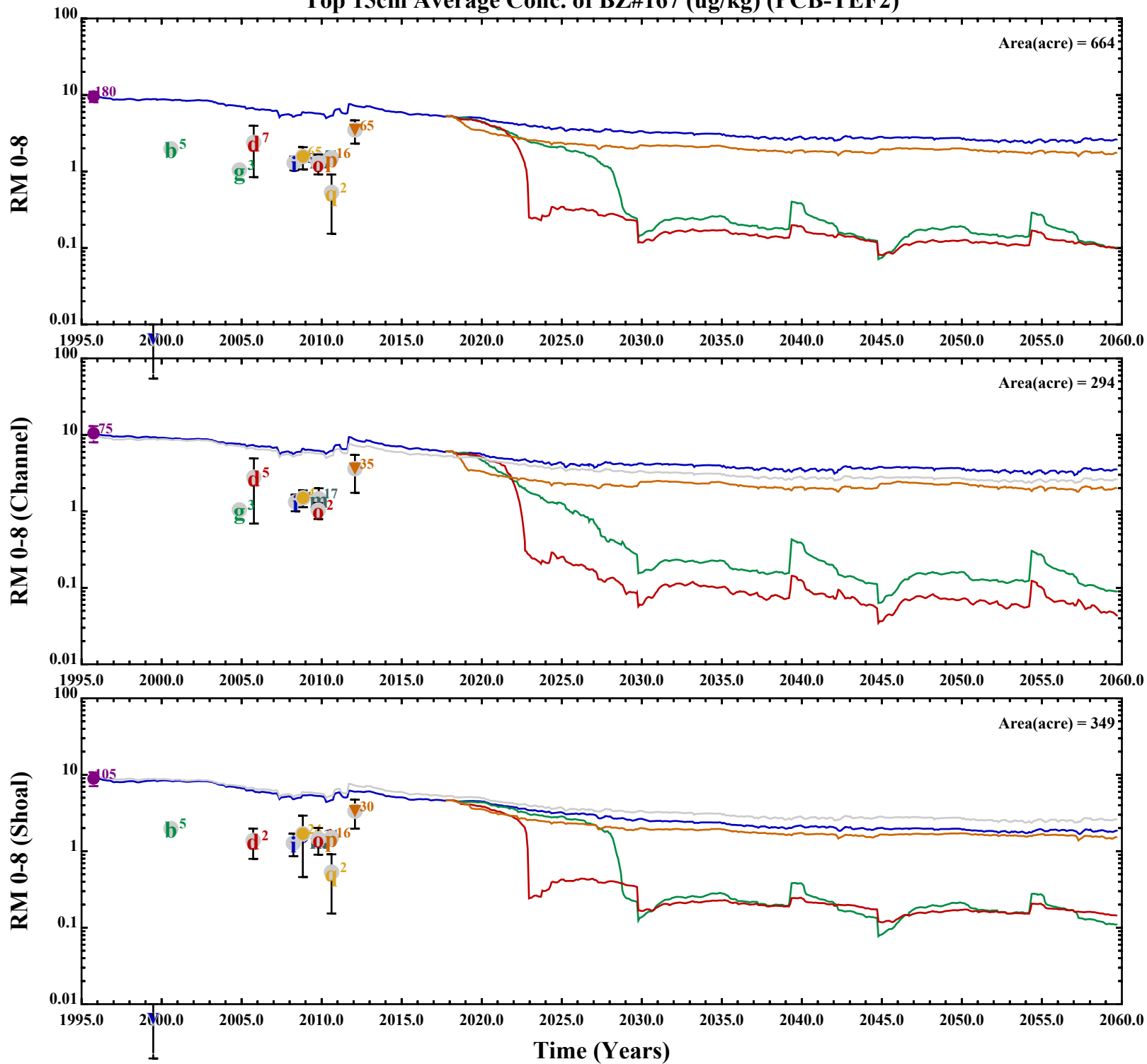
Area(acre) = 77



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

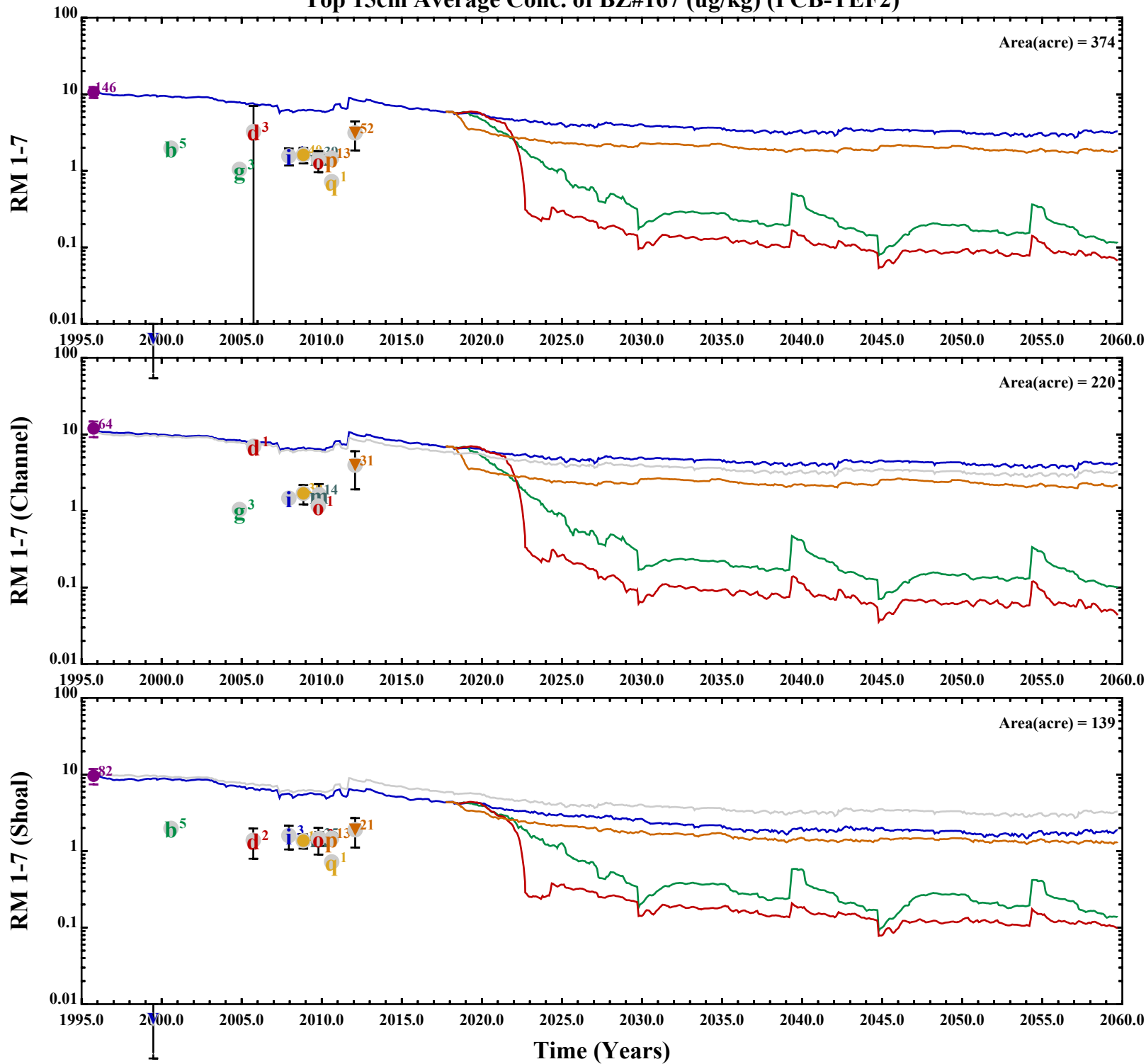
Time (Years)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



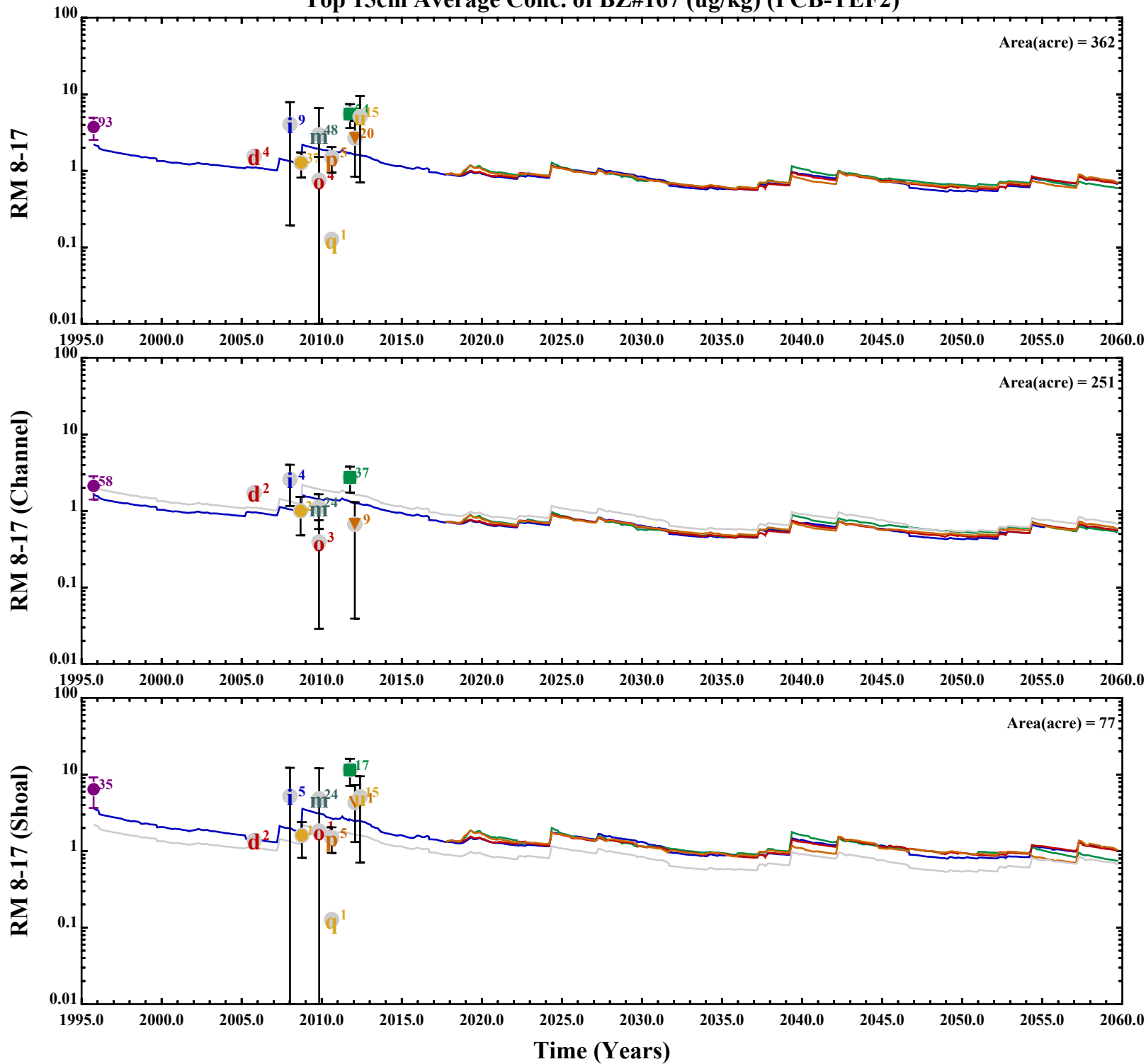
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



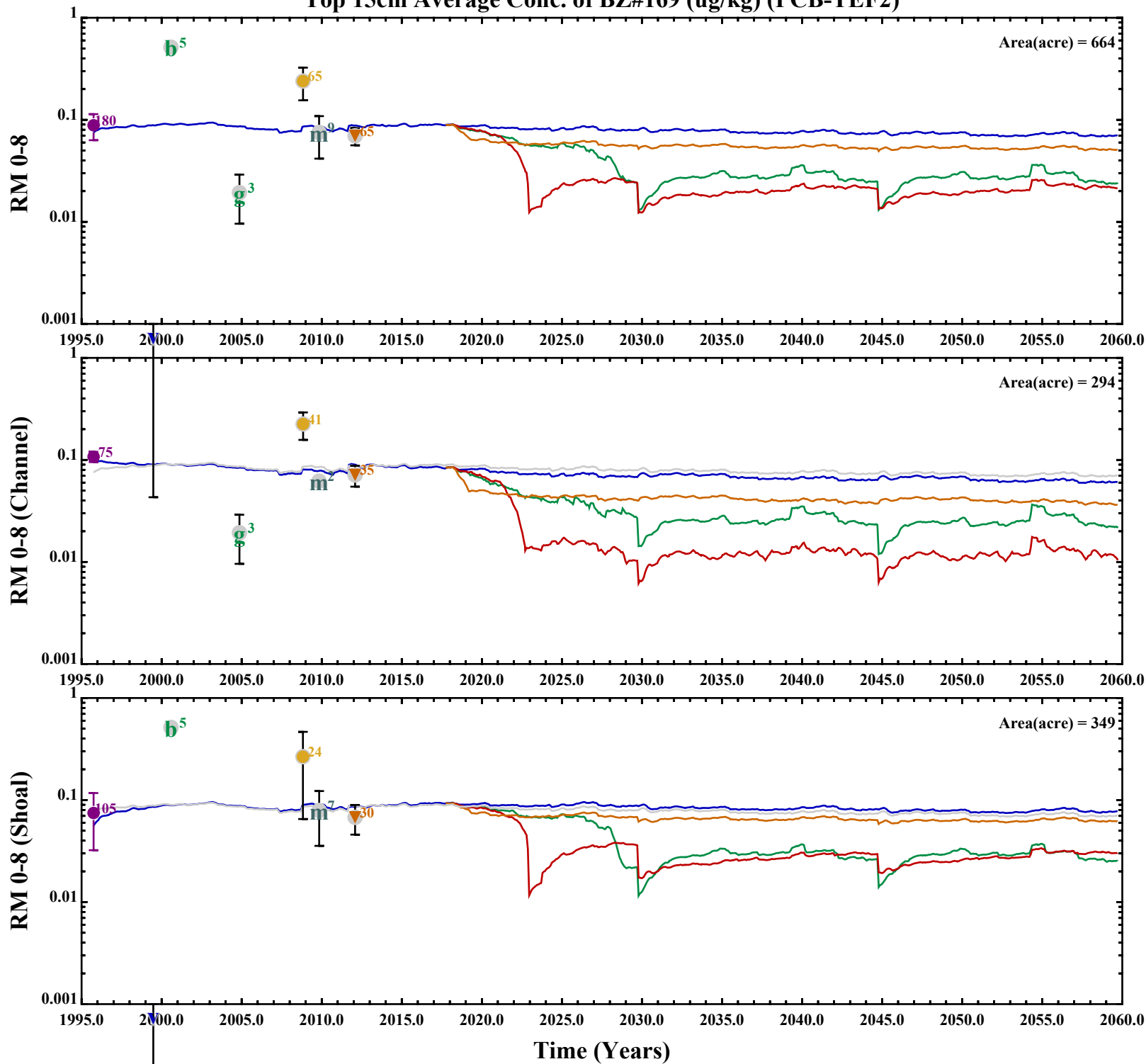
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

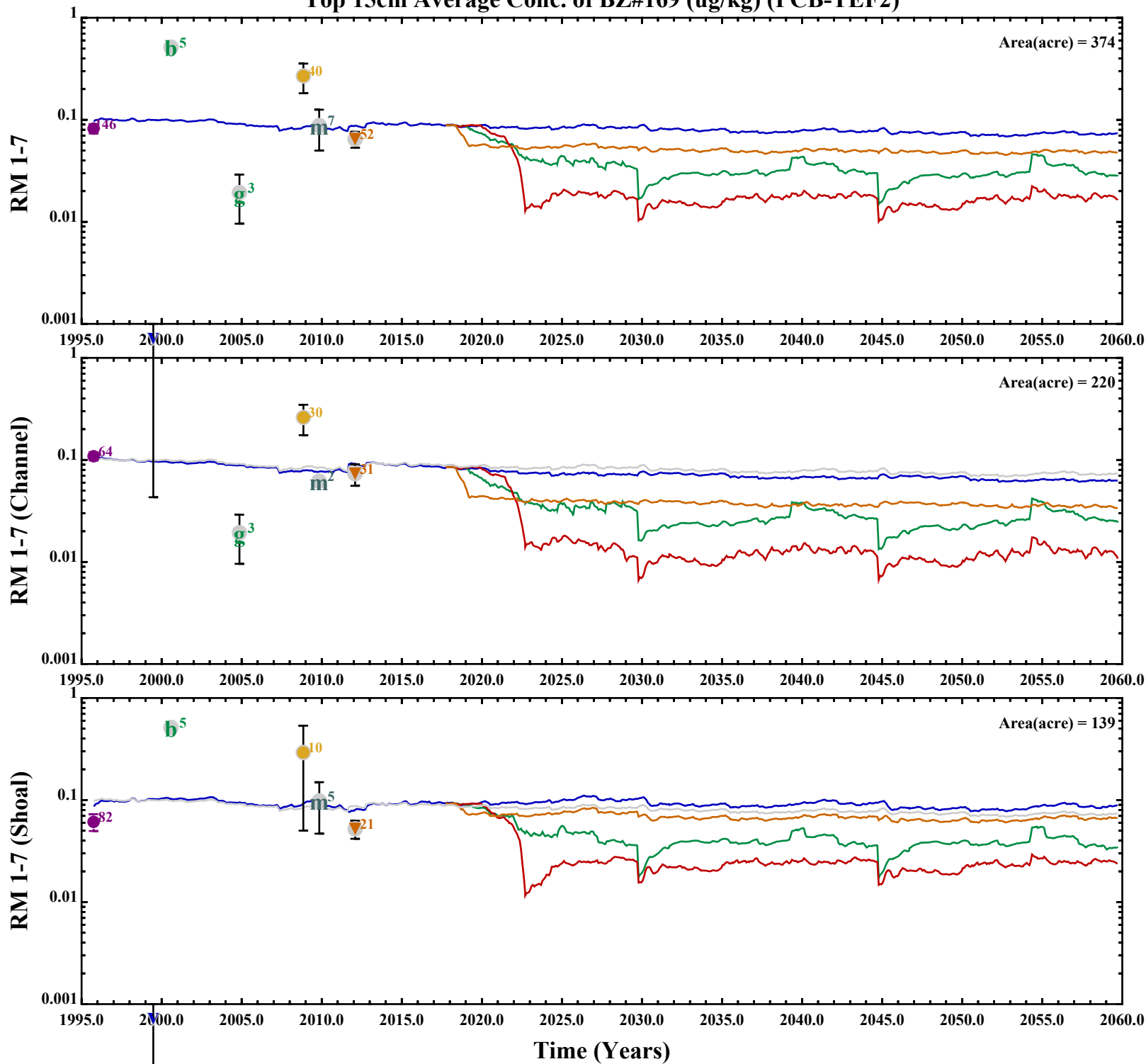
# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
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  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

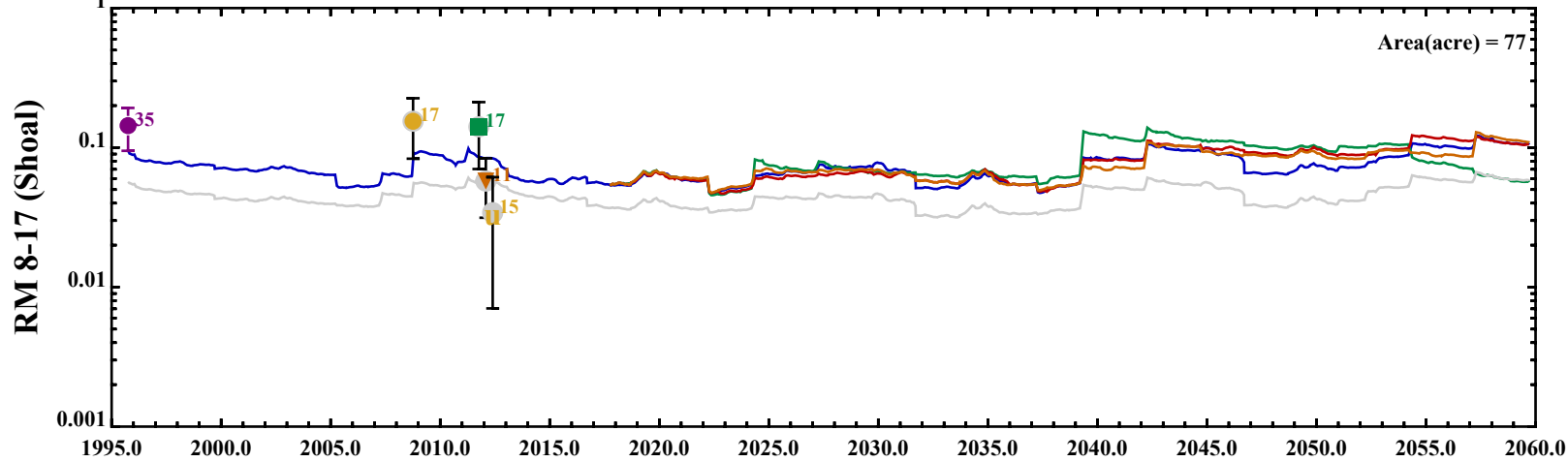
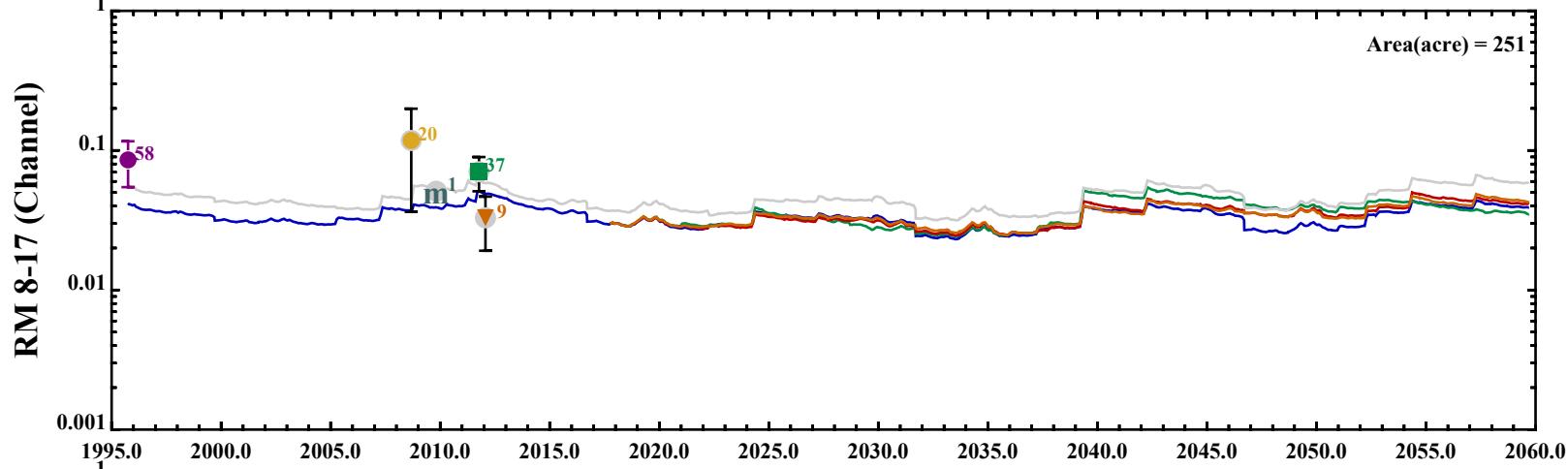
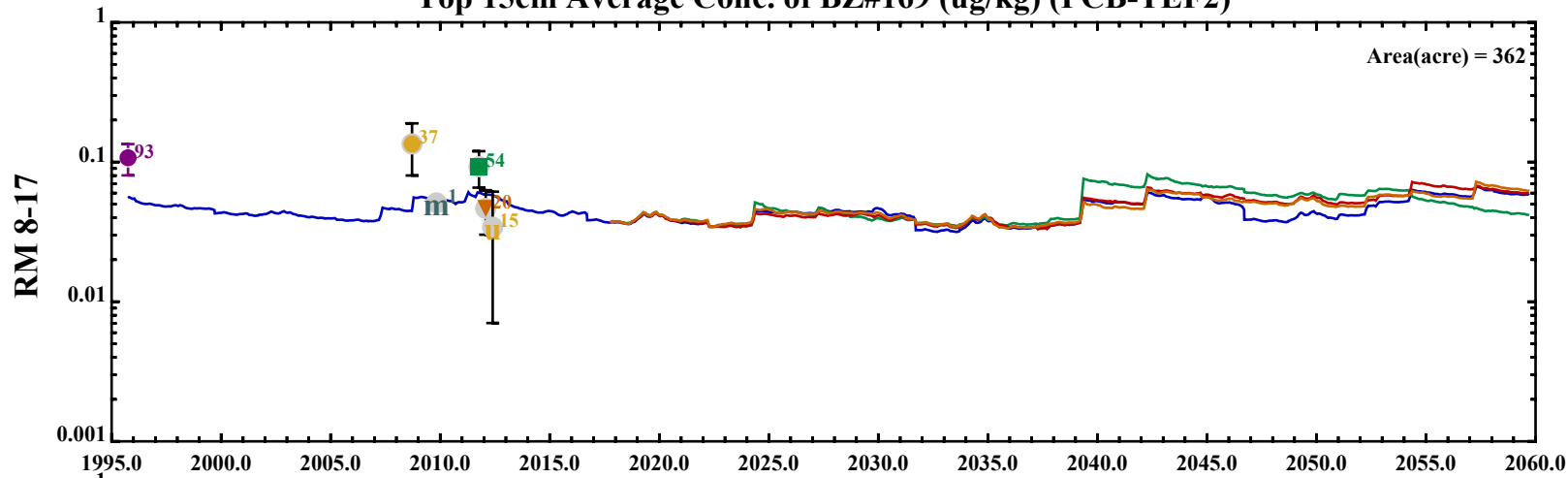


# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

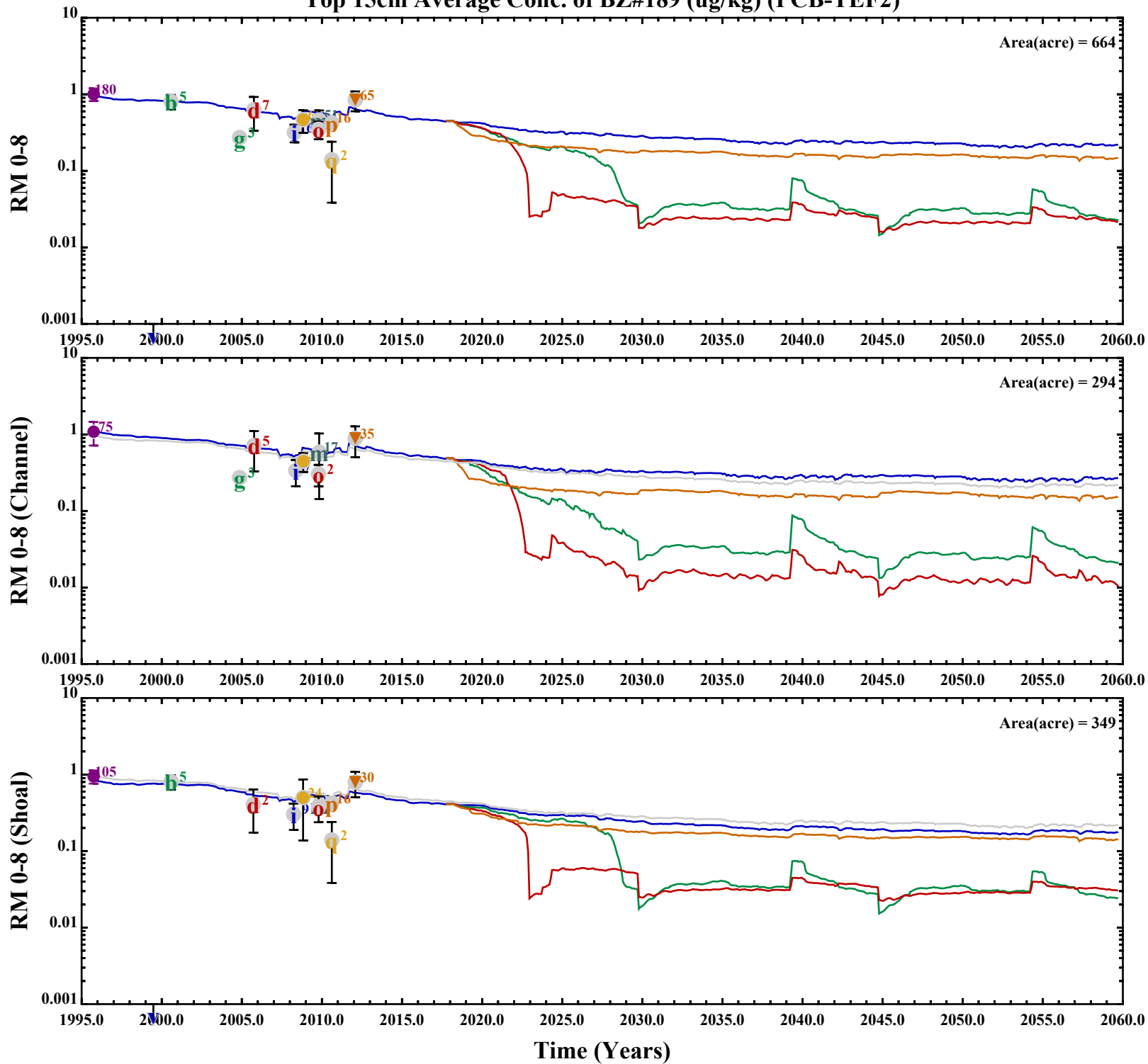
# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
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  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

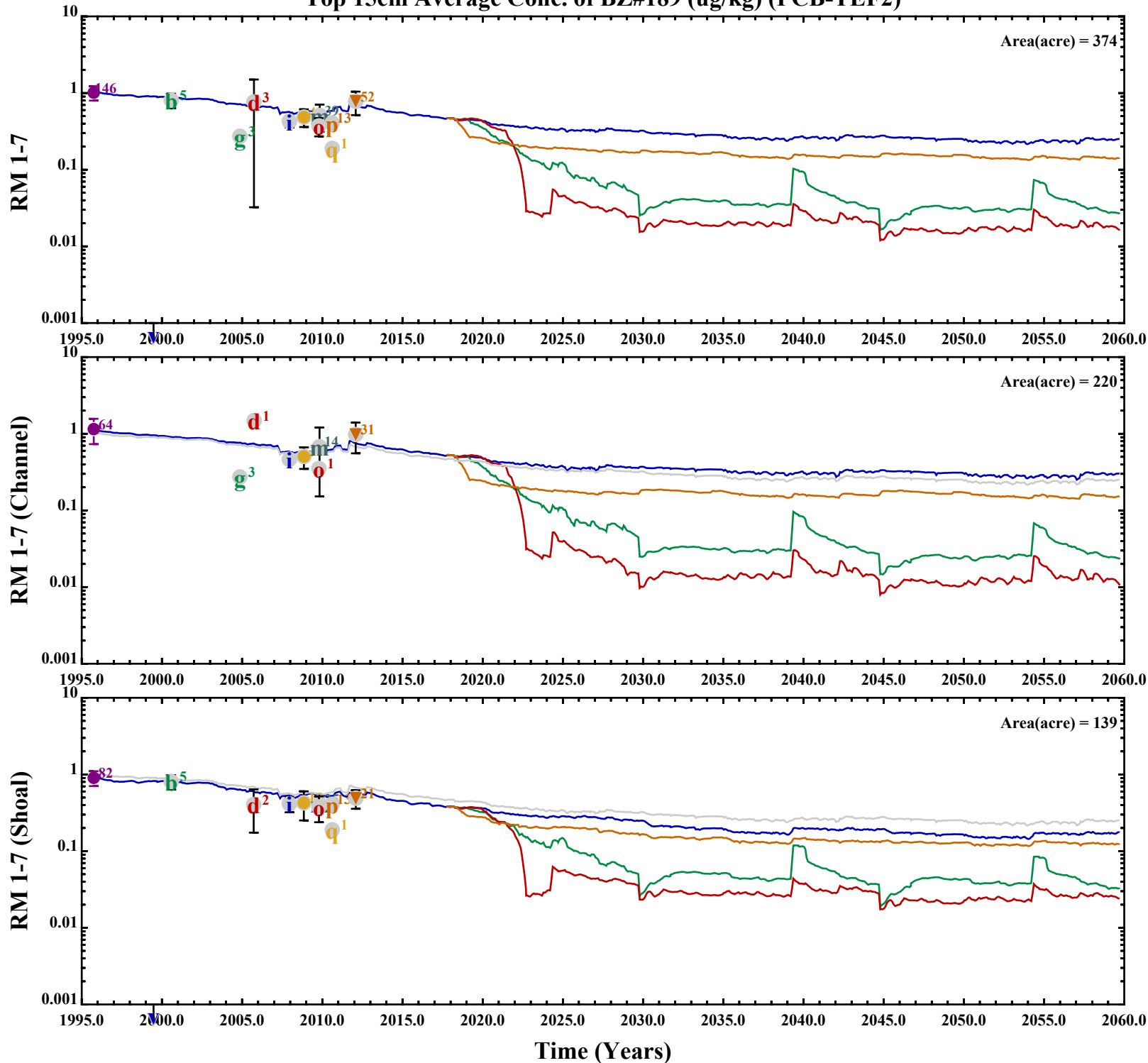
Time (Years)

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



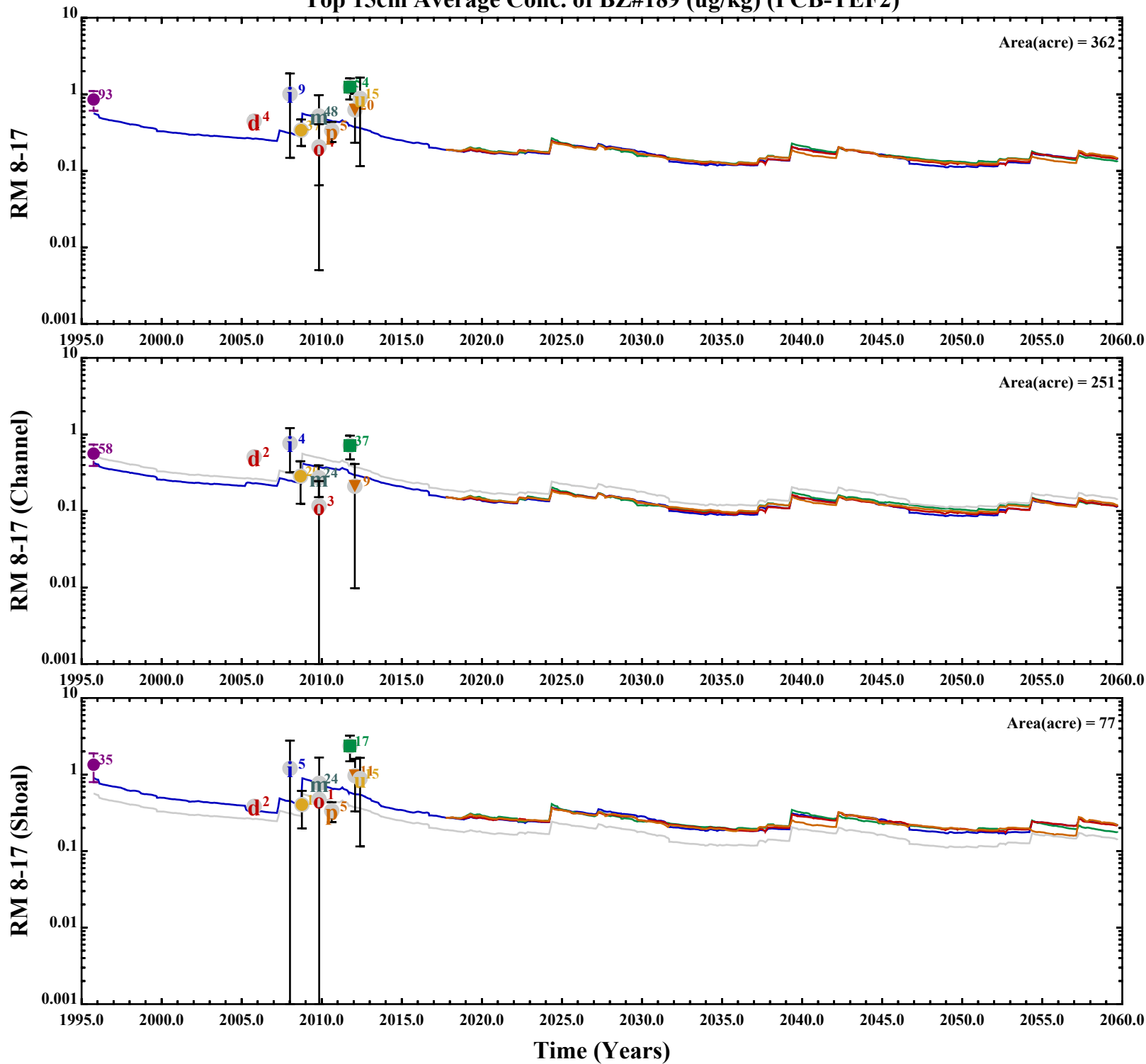
- Data used for ICs
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1994 Surficial Sediment Investigation
  - 1994 Surficial Sediment Investigation
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

**Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)**



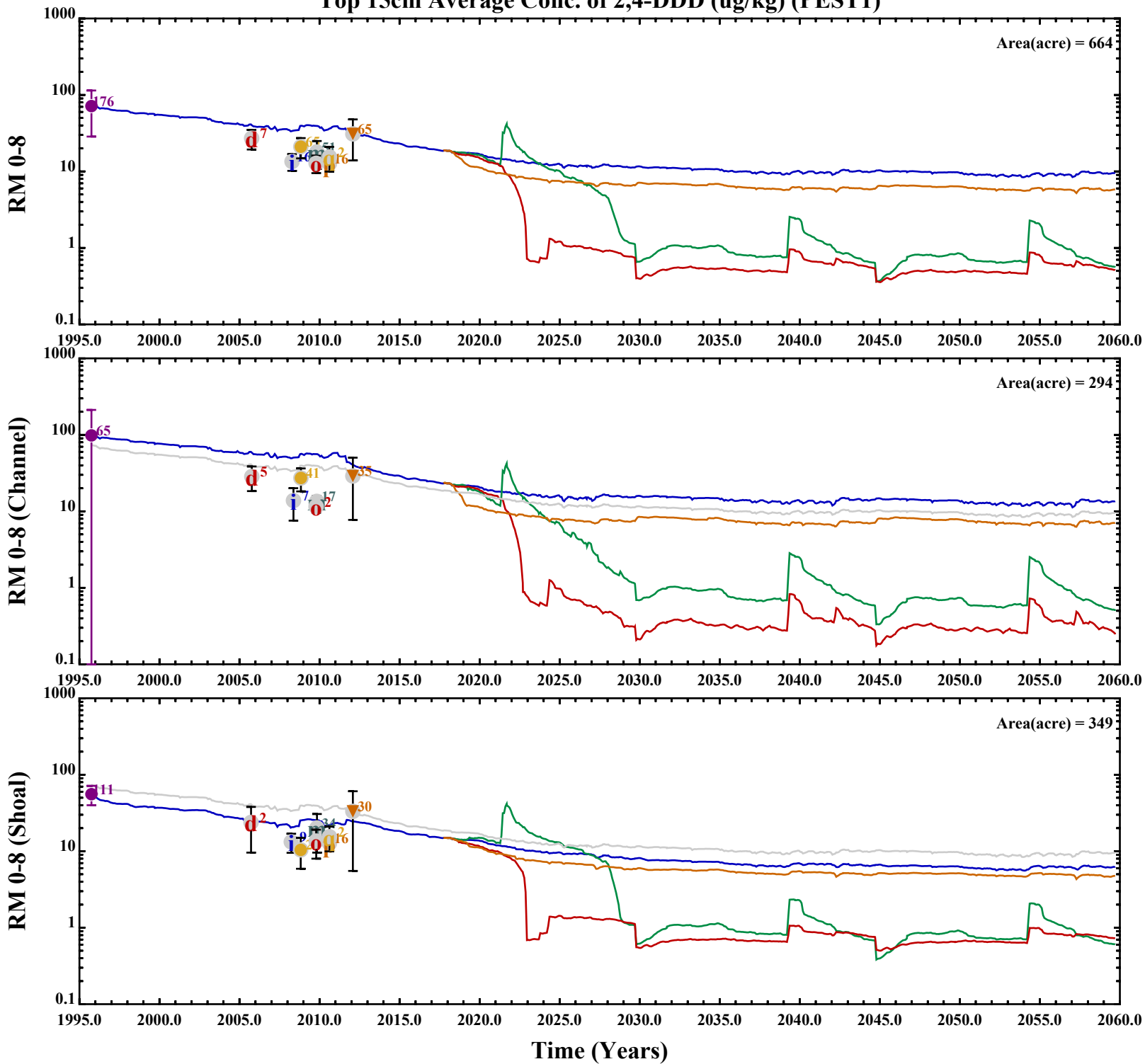
- Data used for ICs
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  - C** 1991 Core Sediment Investigation
  - D** NOAA NS&T Hudson-Raritan Phase I, 1991
  - E** 1992 Core Sediment Investigation
  - F** 1993 Core Sediment Investigation - 01 (March)
  - G** 1993 Core Sediment Investigation - 02 (July)
  - H** 1993 USEPA Surficial Sediment Program
  - I** NOAA NS&T Hudson-Raritan Phase II, 1993
  - J** REMAP, 1993
  - K** 1994 Surficial Sediment Investigation
  - L** REMAP, 1994
  - M** 1995 RI Sampling Program
  - N** 1995 Sediment Grab Sampling Program
  - O** 1995 USACE Minish Park Investigation
  - P** 1996 Newark Bay Reach A Sediment Sampling Program
  - Q** 1997 Newark Bay Reach B,C,D Sampling Program
  - S** 1998 Newark Bay Elizabeth Channel Sampling Program
  - T** REMAP, 1998
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  - X** 1999 Prelim Toxicity Identification Eval
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  - b** 2000 Toxicity Identification Evaluation
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  - ▲** 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d** 2005 USEPA-MPI High Res Sediment Core
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  - g** 1999-2006 Honeywell Intl Sampling
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  - j** 2007 USEPA-MPI Dundee High Res Core
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  - r** 2012 CDMSmith Background BenthicSediment
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  - t** 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u** 2012 CPG River Mile 10.9 Data
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**
  - **No Action Gradient IC, Reach Scale Up (Full Reach)**

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



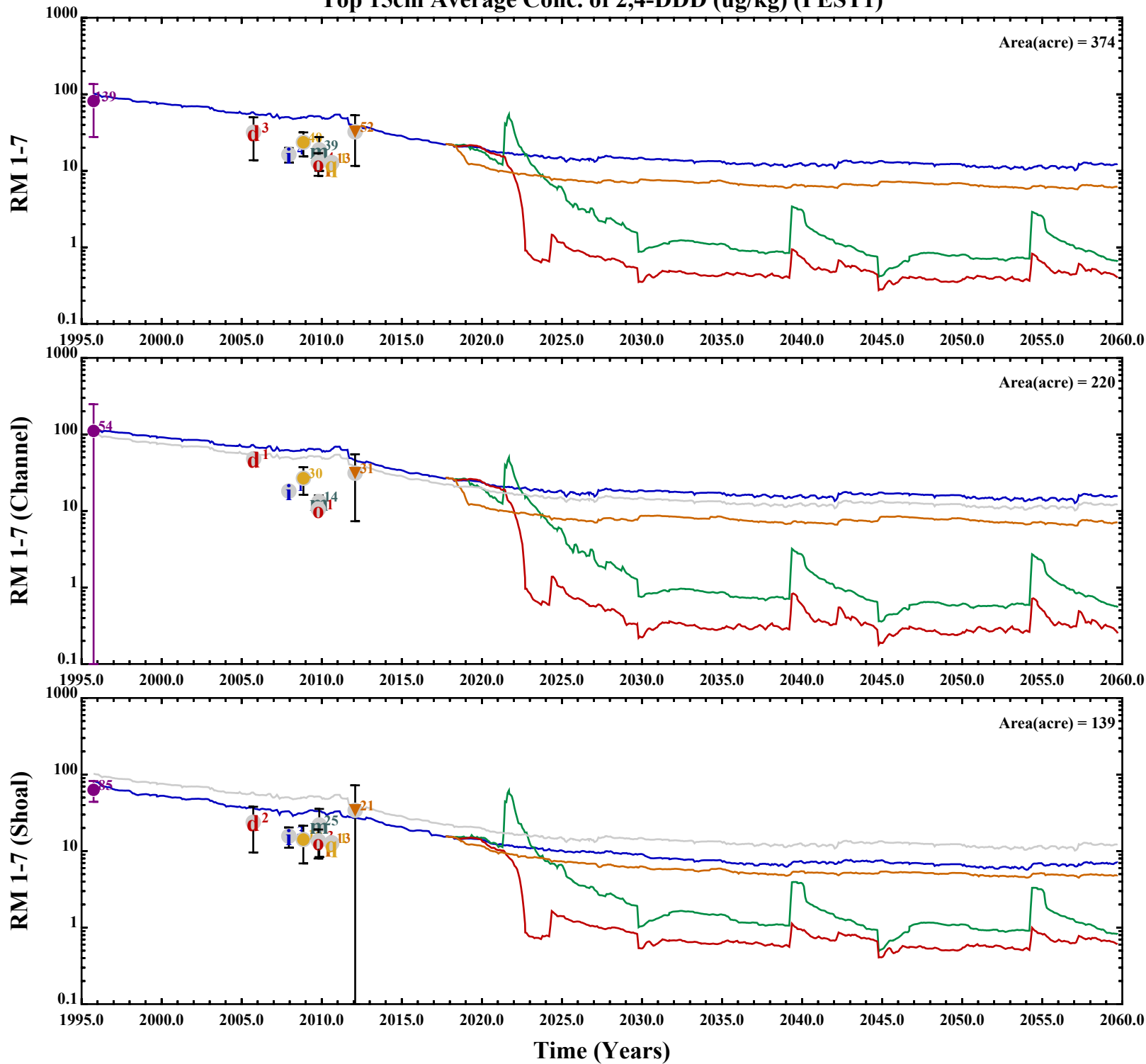
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - REMAP, 1998
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  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



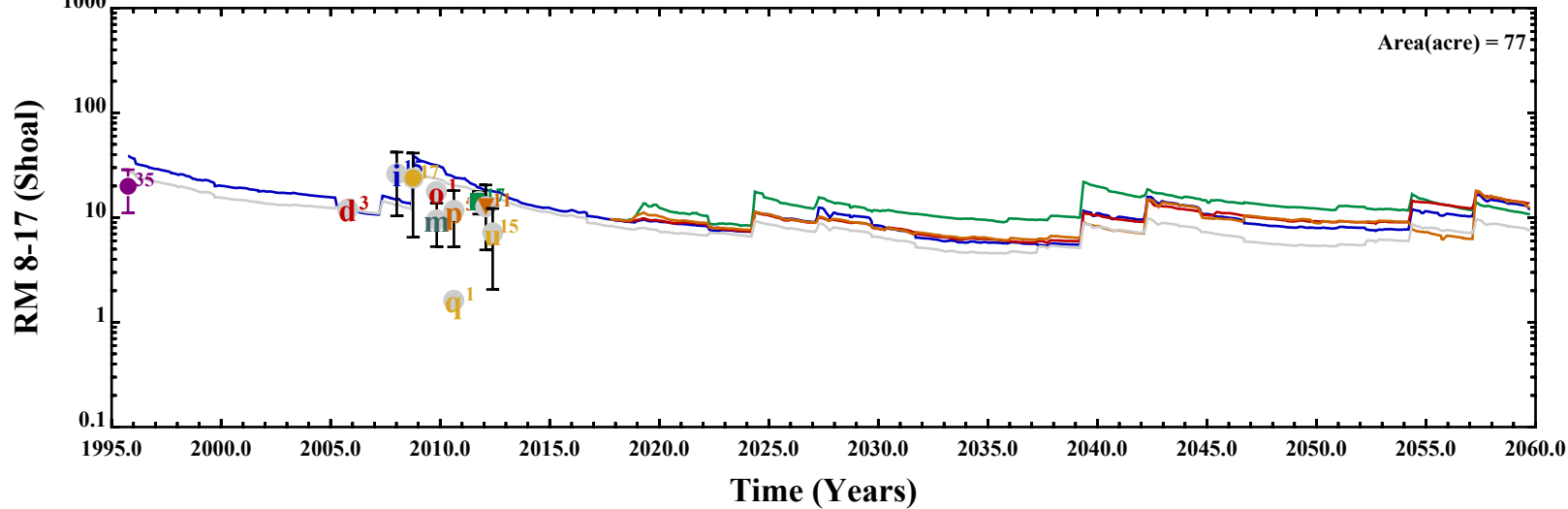
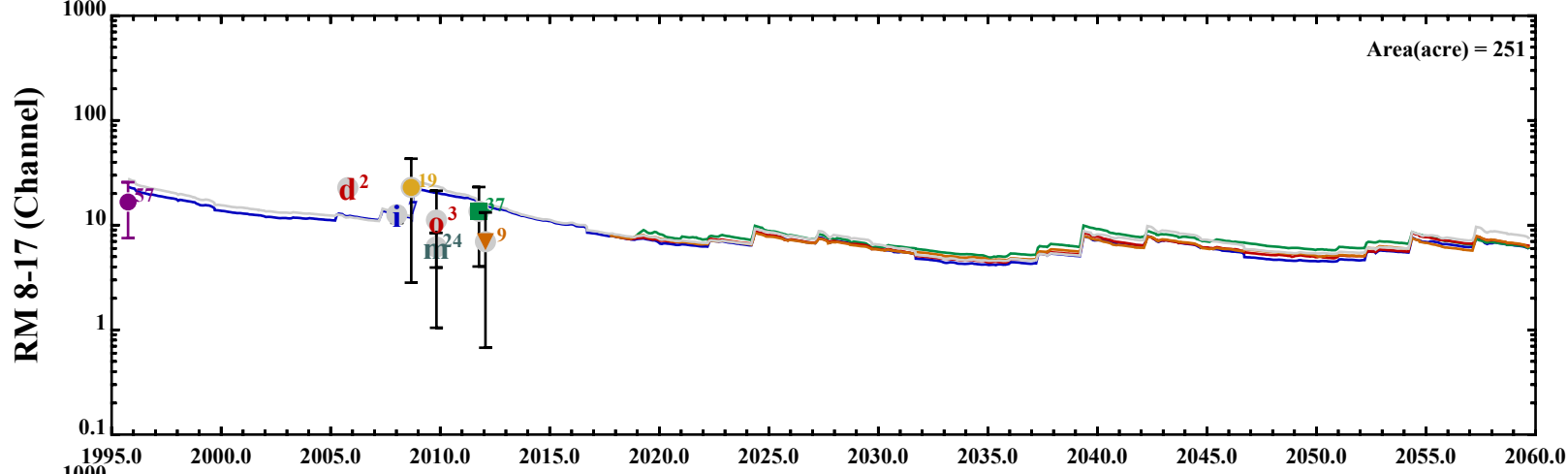
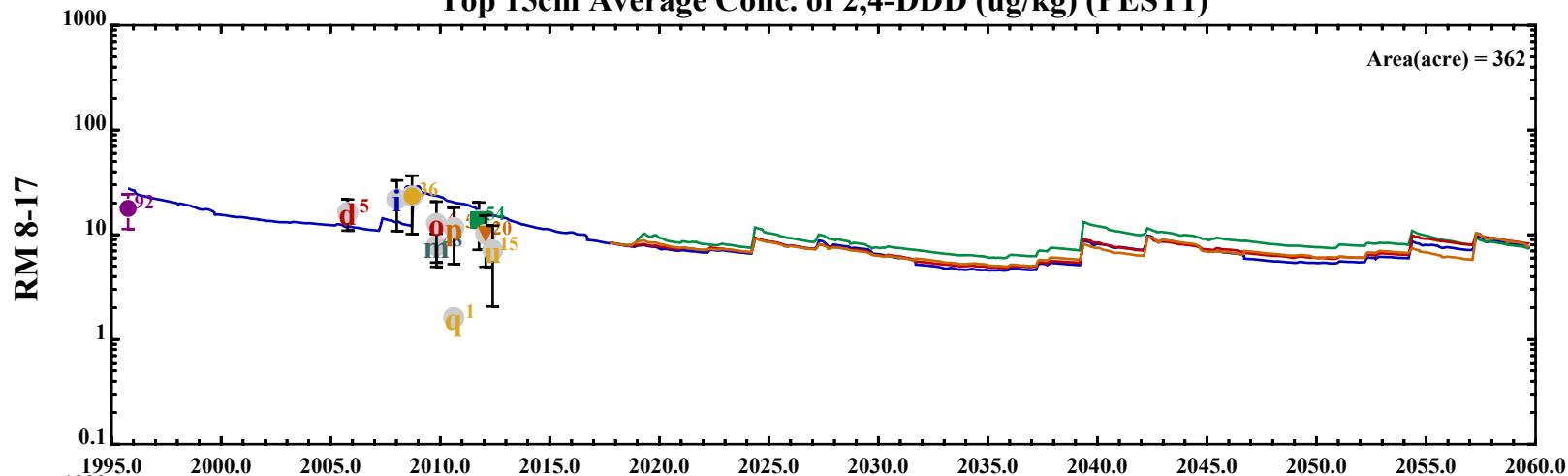
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
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  - c 2005 MPI - Newark Bay Phase I Oversight
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  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2009 CPG Benthic Sediment Study
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  - 2010 USEPA-CDM Benthic Oversight
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  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

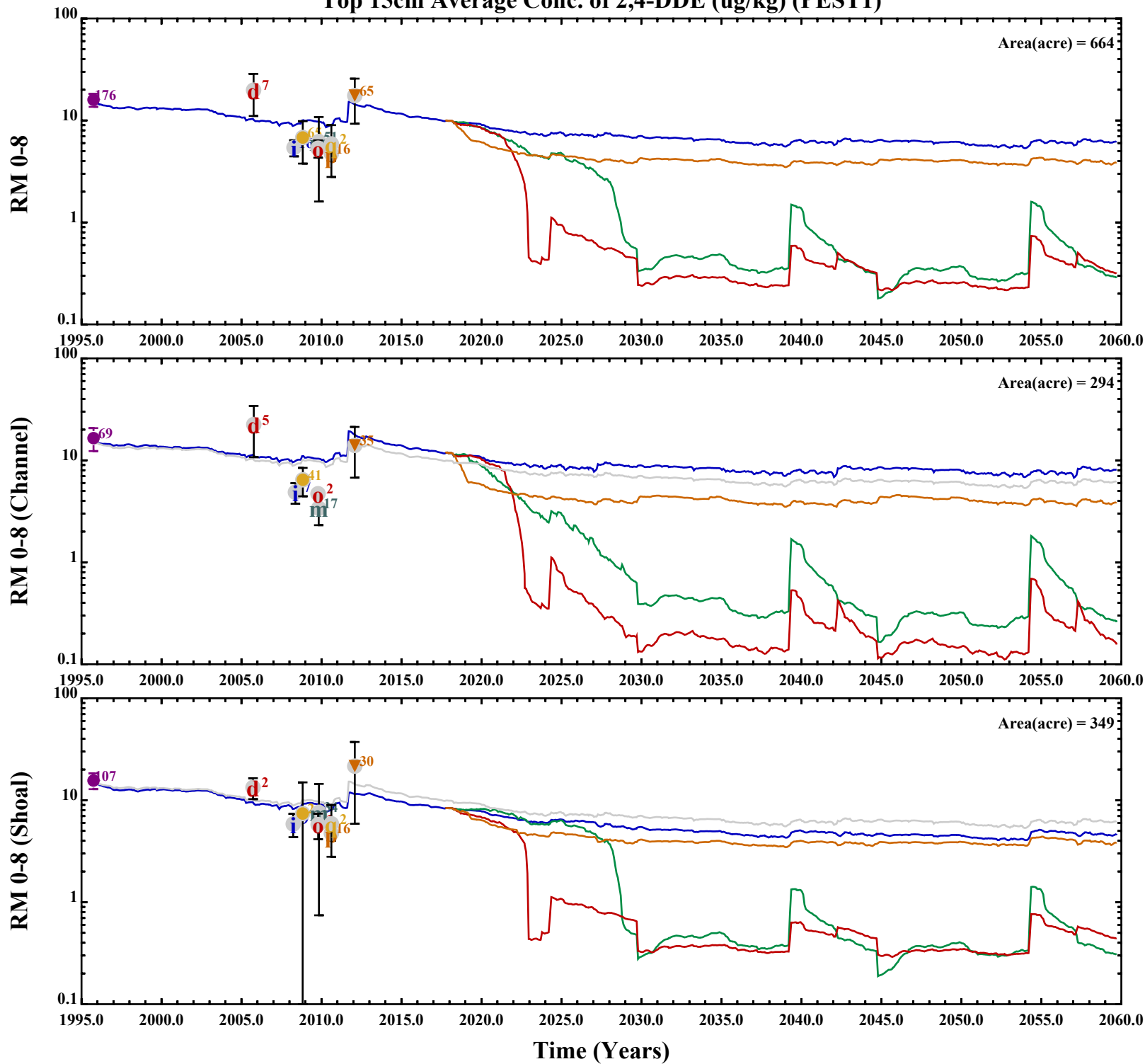
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - v 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

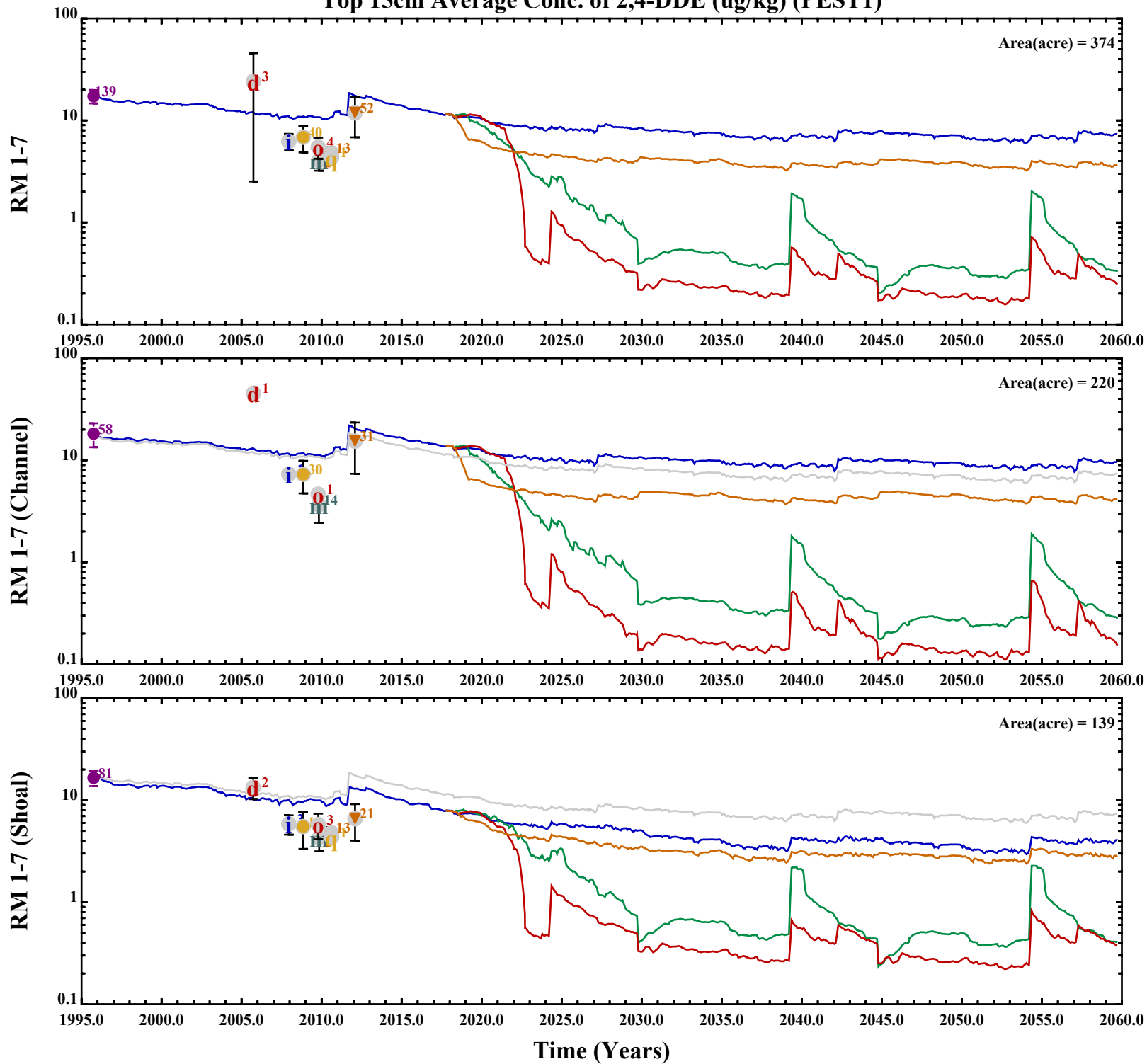


# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



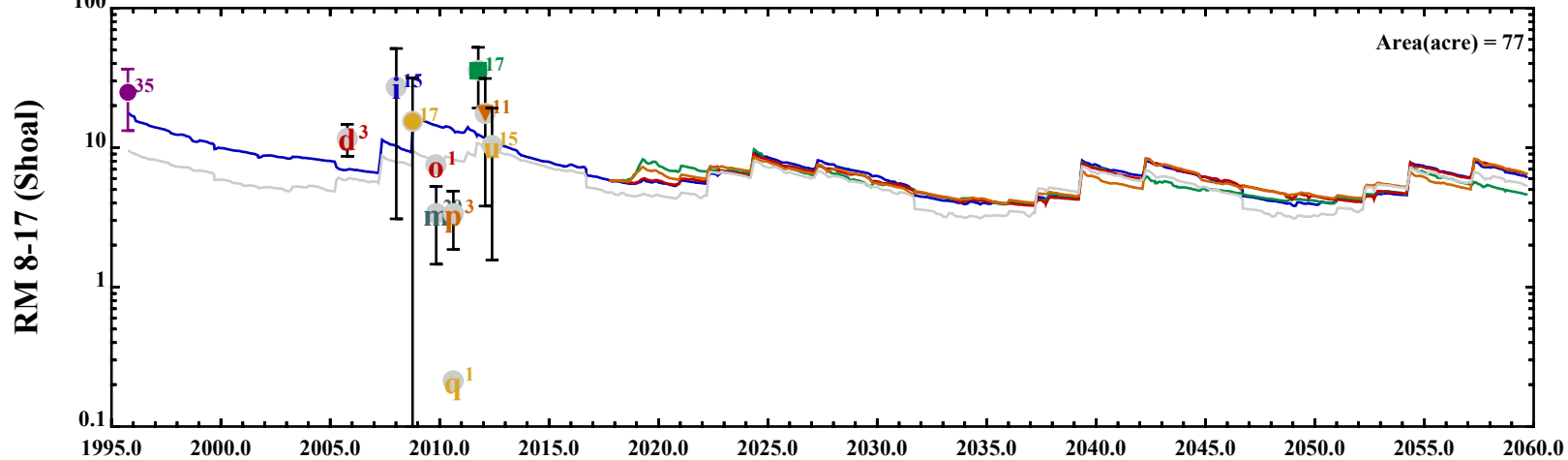
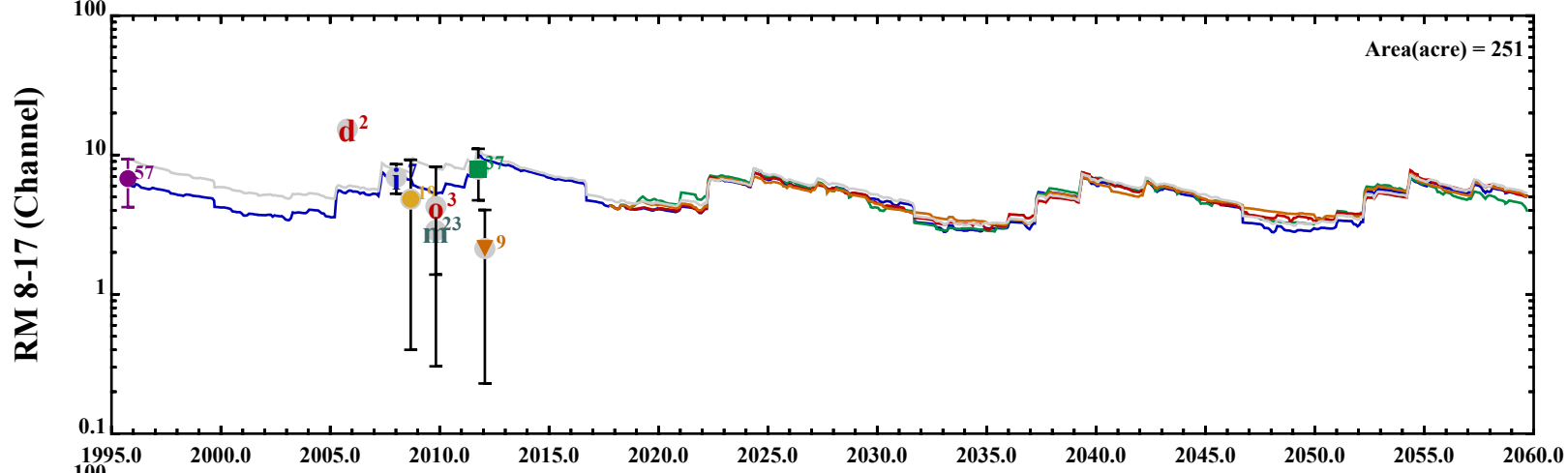
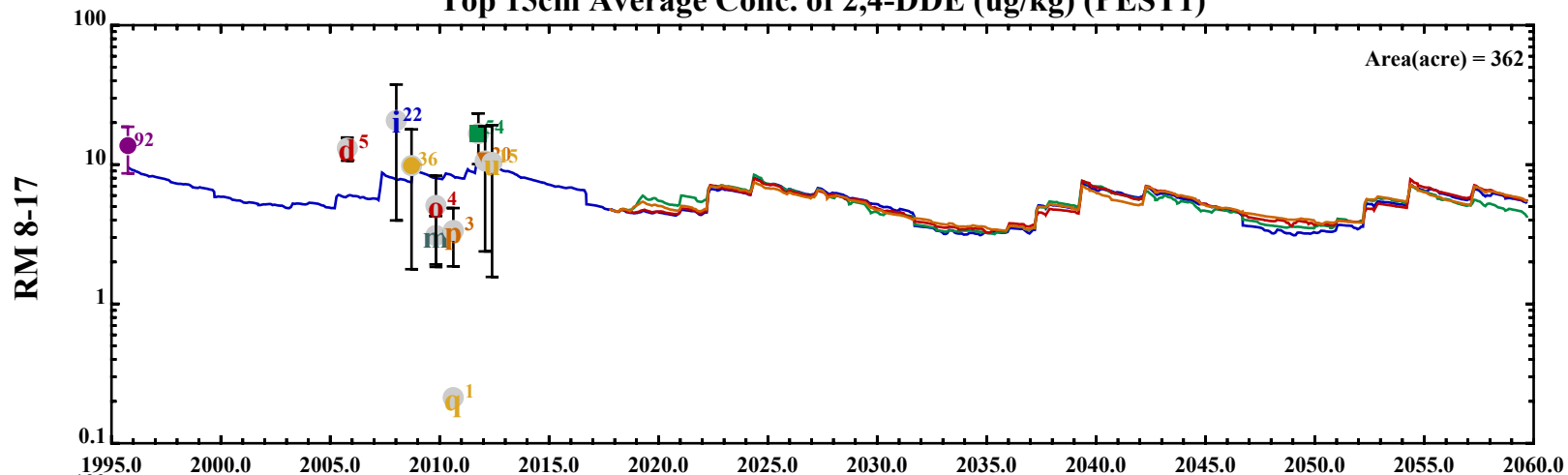
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  - 1991 Core Sediment Investigation
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  - REMAP, 1994
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  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
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  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
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  - ▲ 2005 MPI - Newark Bay Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2007 Newark Bay Phase II TSI Sediment Samples
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- 
- No Action Gradient IC, Reach Scale Up
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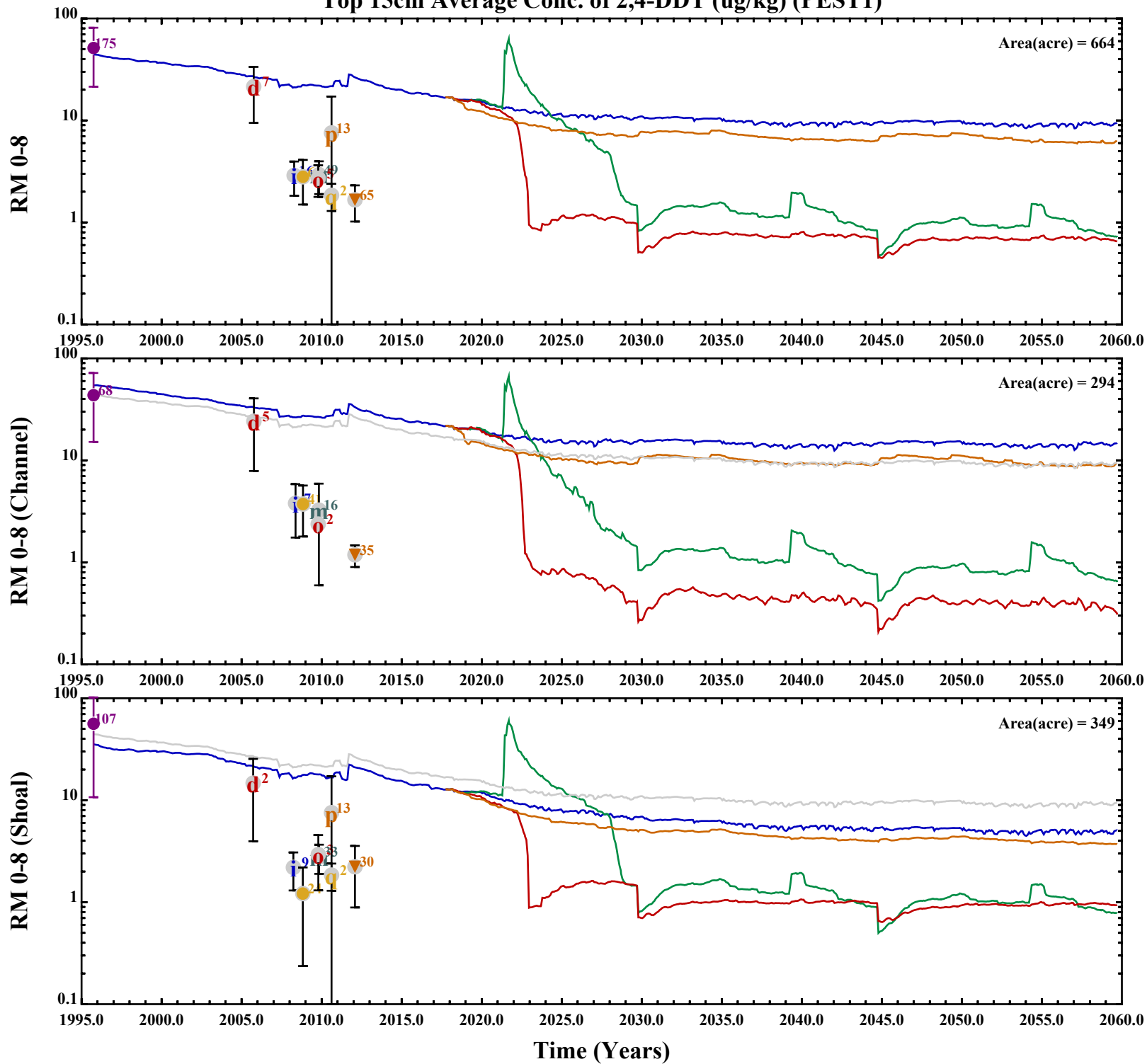
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
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  - 2005 MPI - Newark Bay Phase I Oversight
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  - No Action Gradient IC, Reach Scale Up (Full Reach)

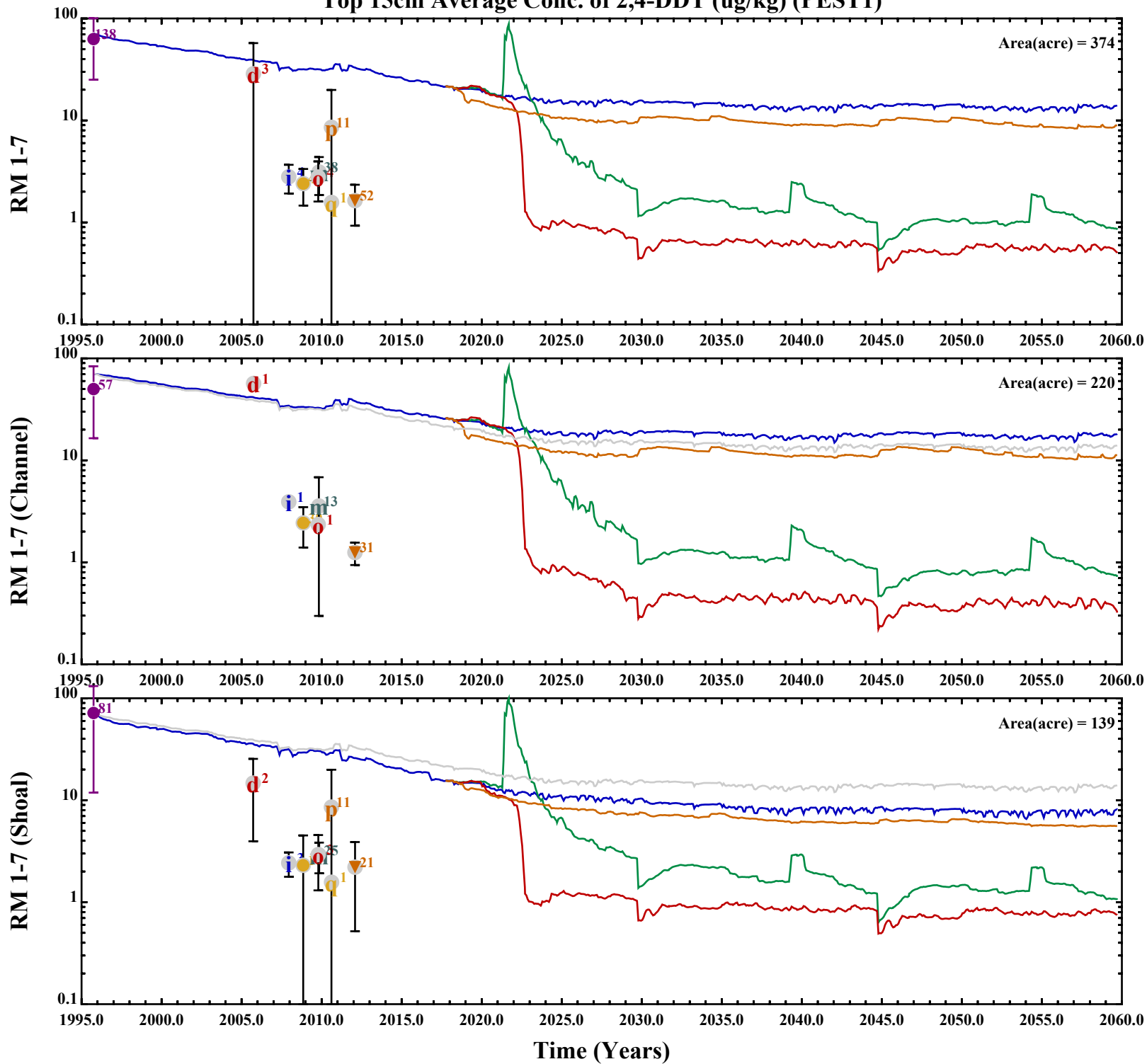
Time (Years)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



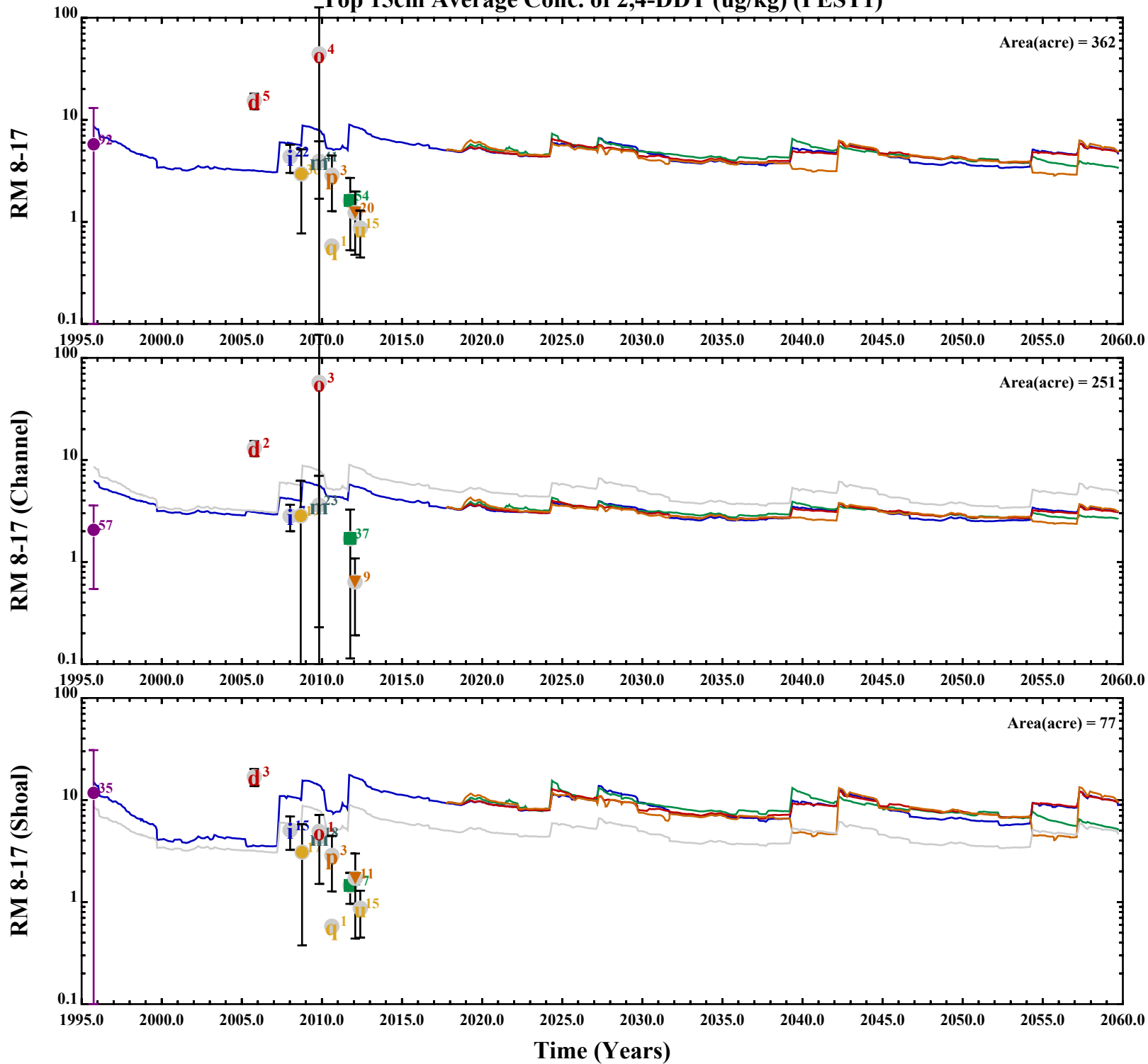
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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  - M 1995 RI Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
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  - k 2007 Newark Bay Phase II TSI Sediment Samples
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  - q 2010 USEPA-CDM Benthic Oversight
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  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



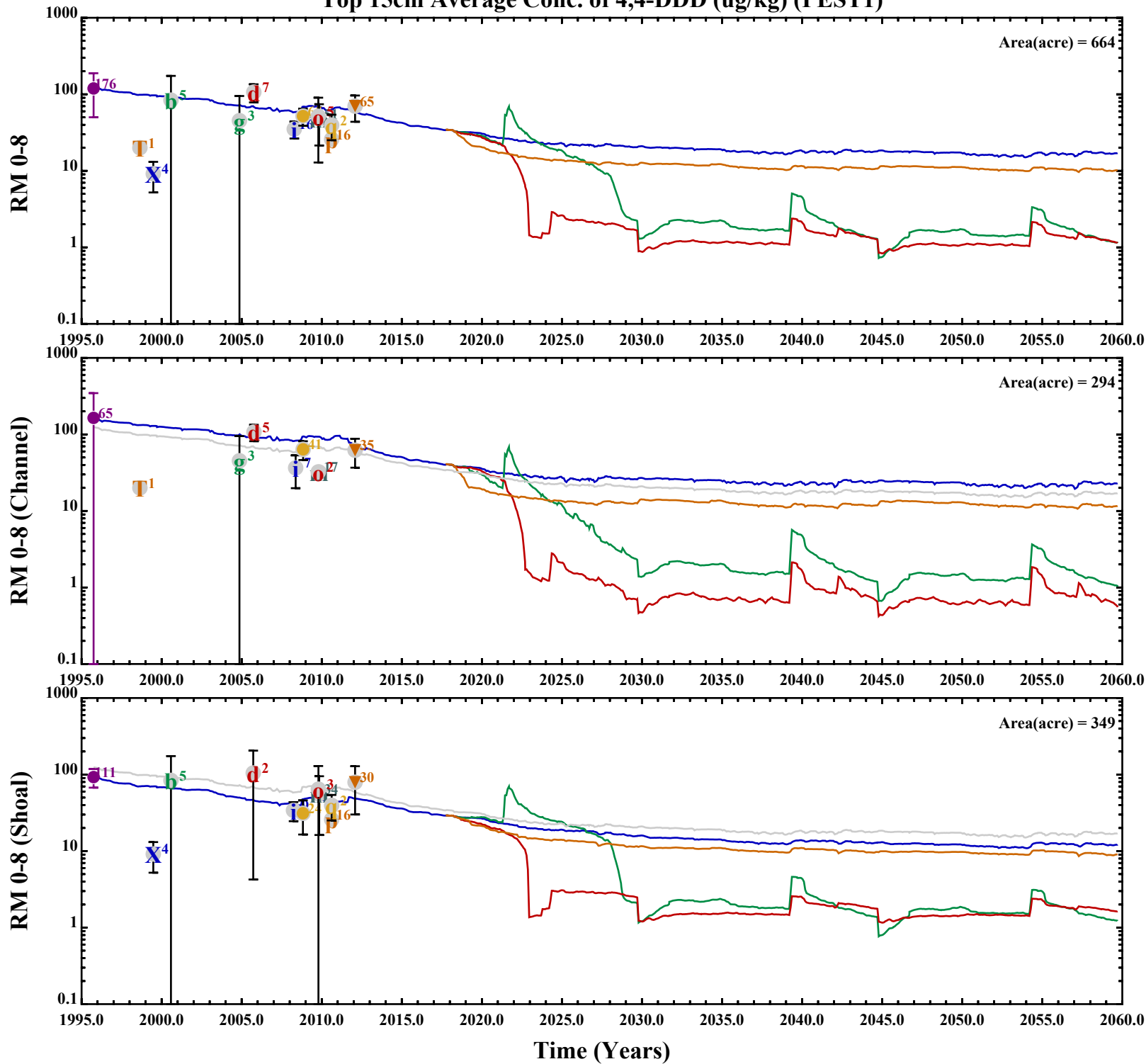
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)

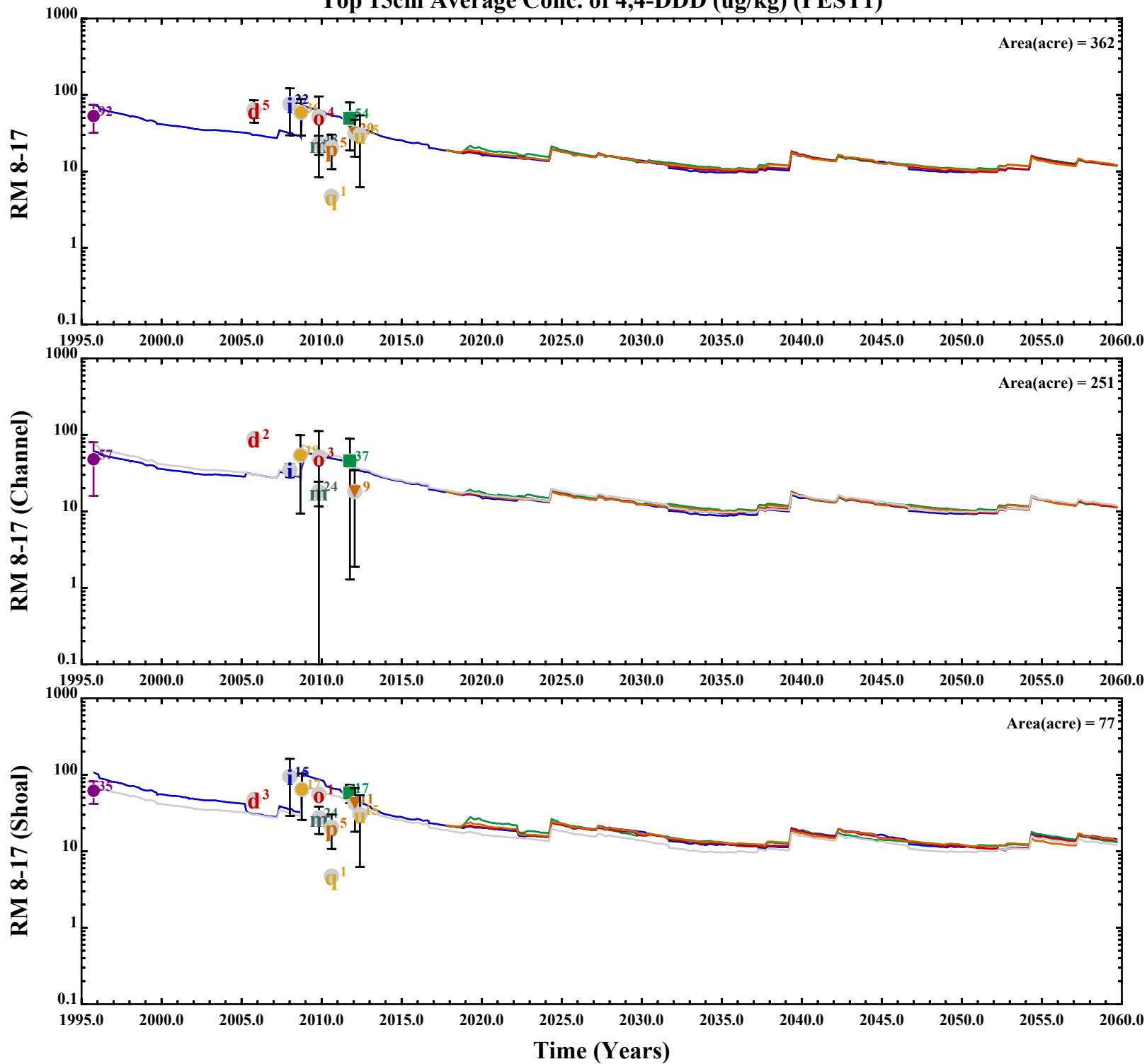


- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
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  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



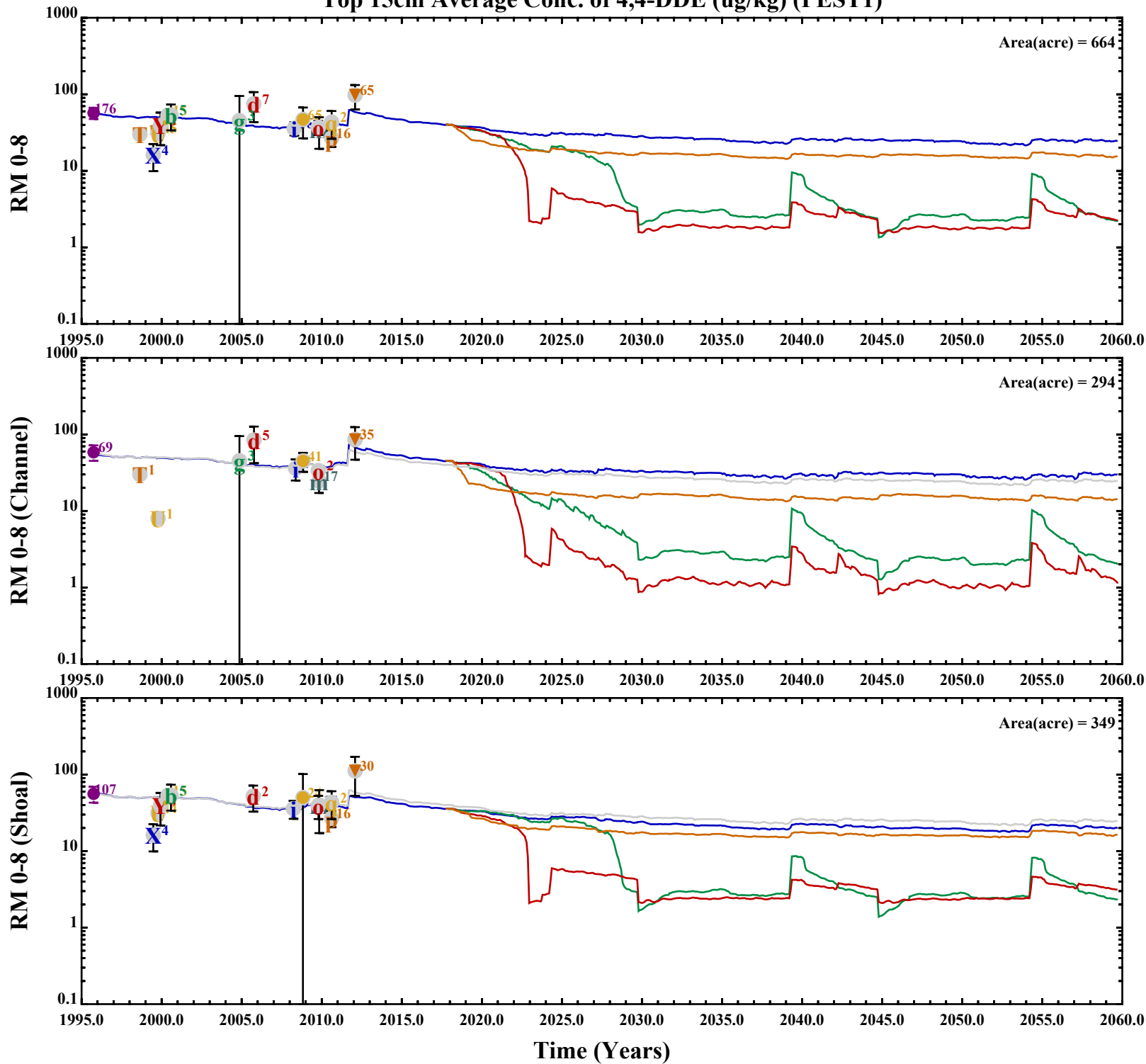


# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)



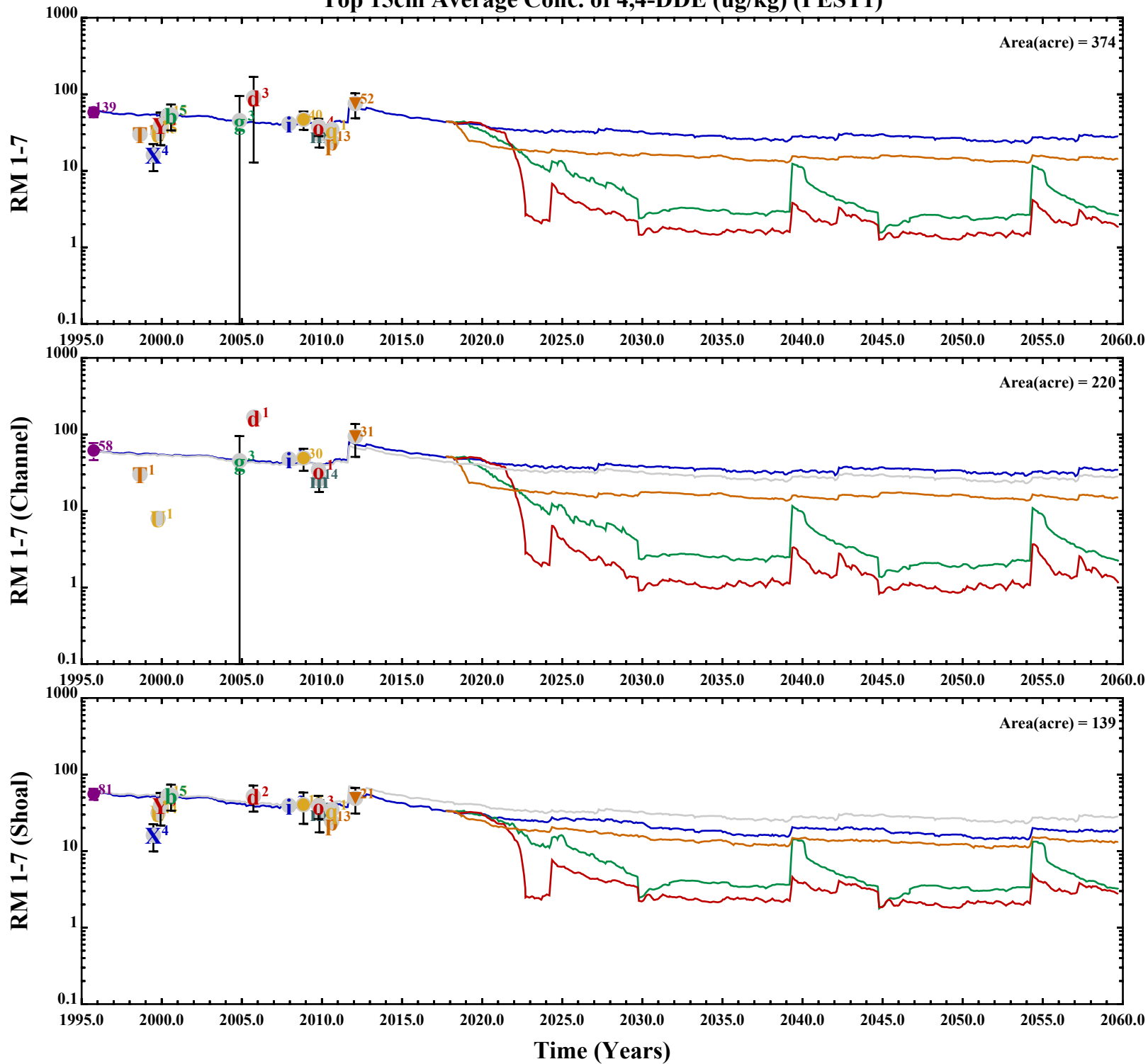
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1992 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
  - 1993 REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
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  - 2009 USEPA-MPI Benthic Oversight
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  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



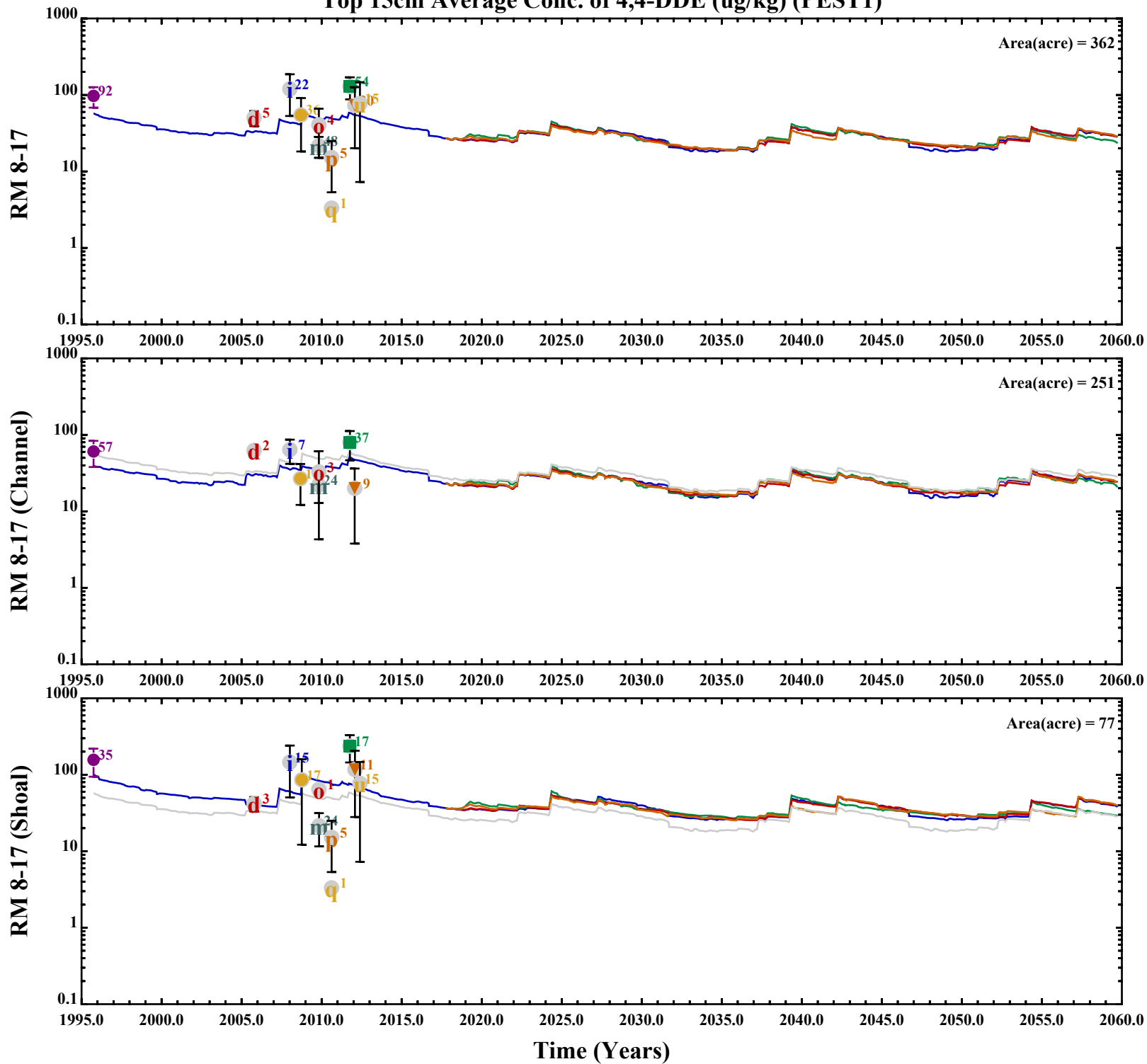
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
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  - N 1995 Sediment Grab Sampling Program
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  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



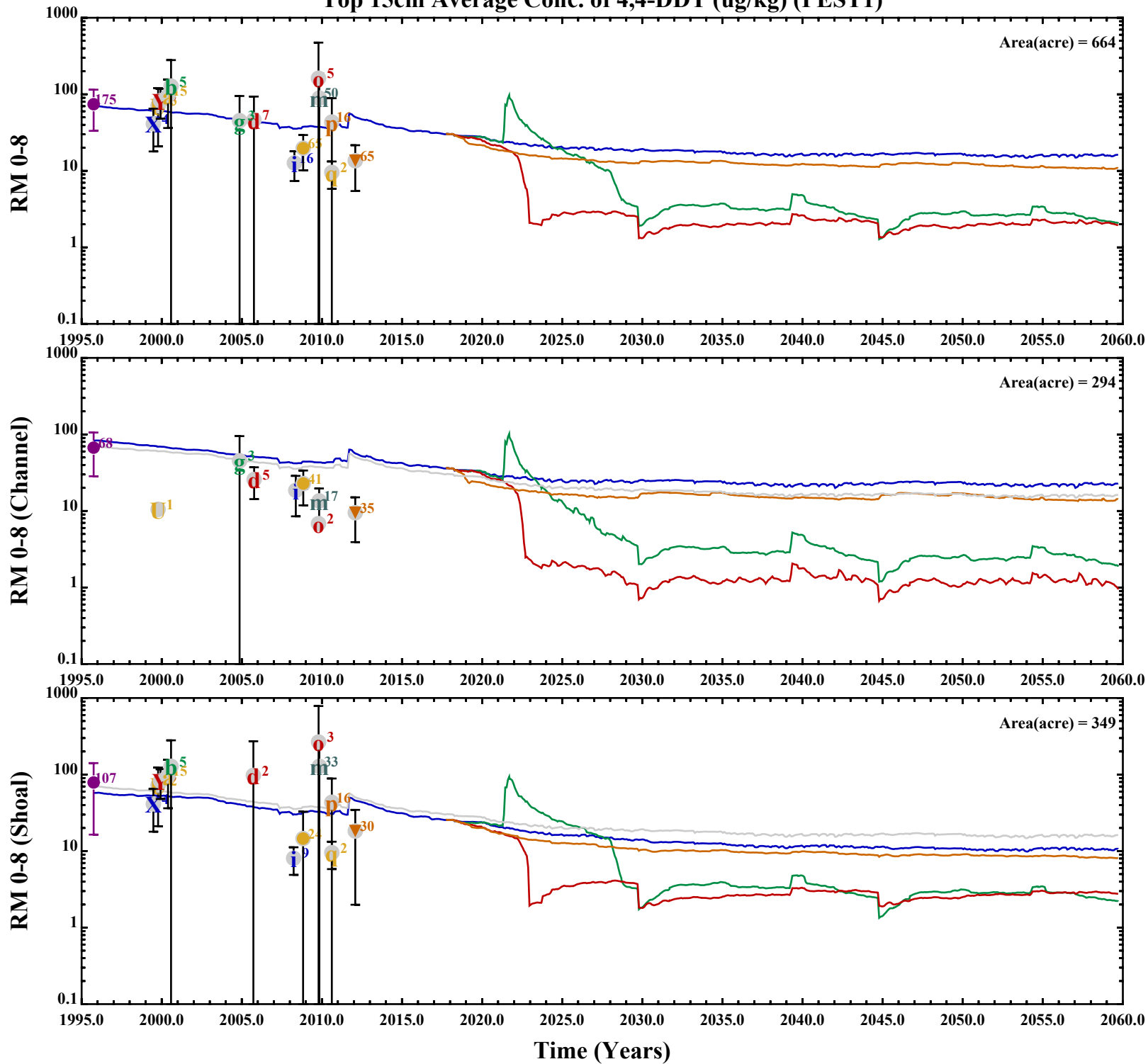
- Data used for ICs
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
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  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



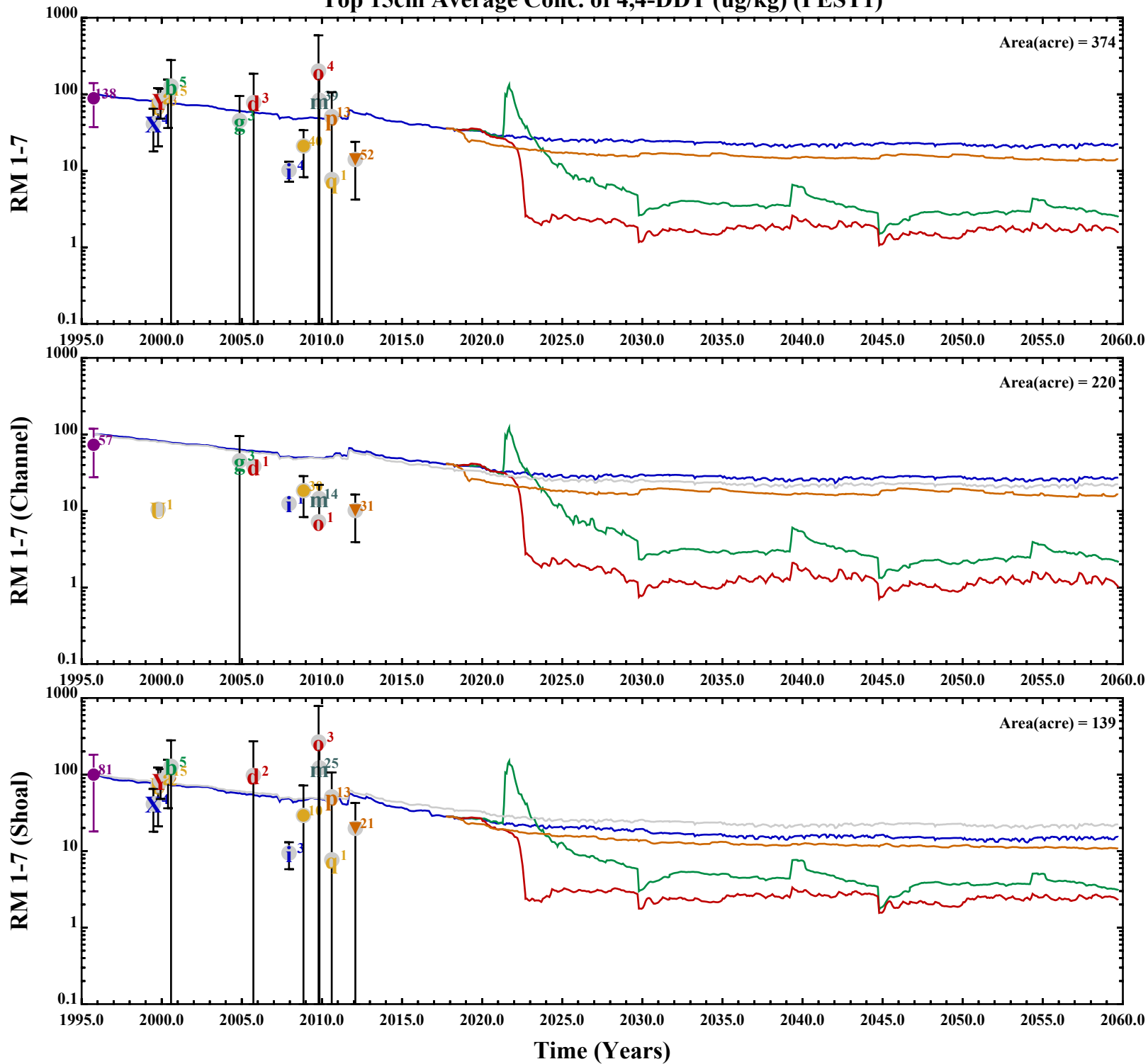
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



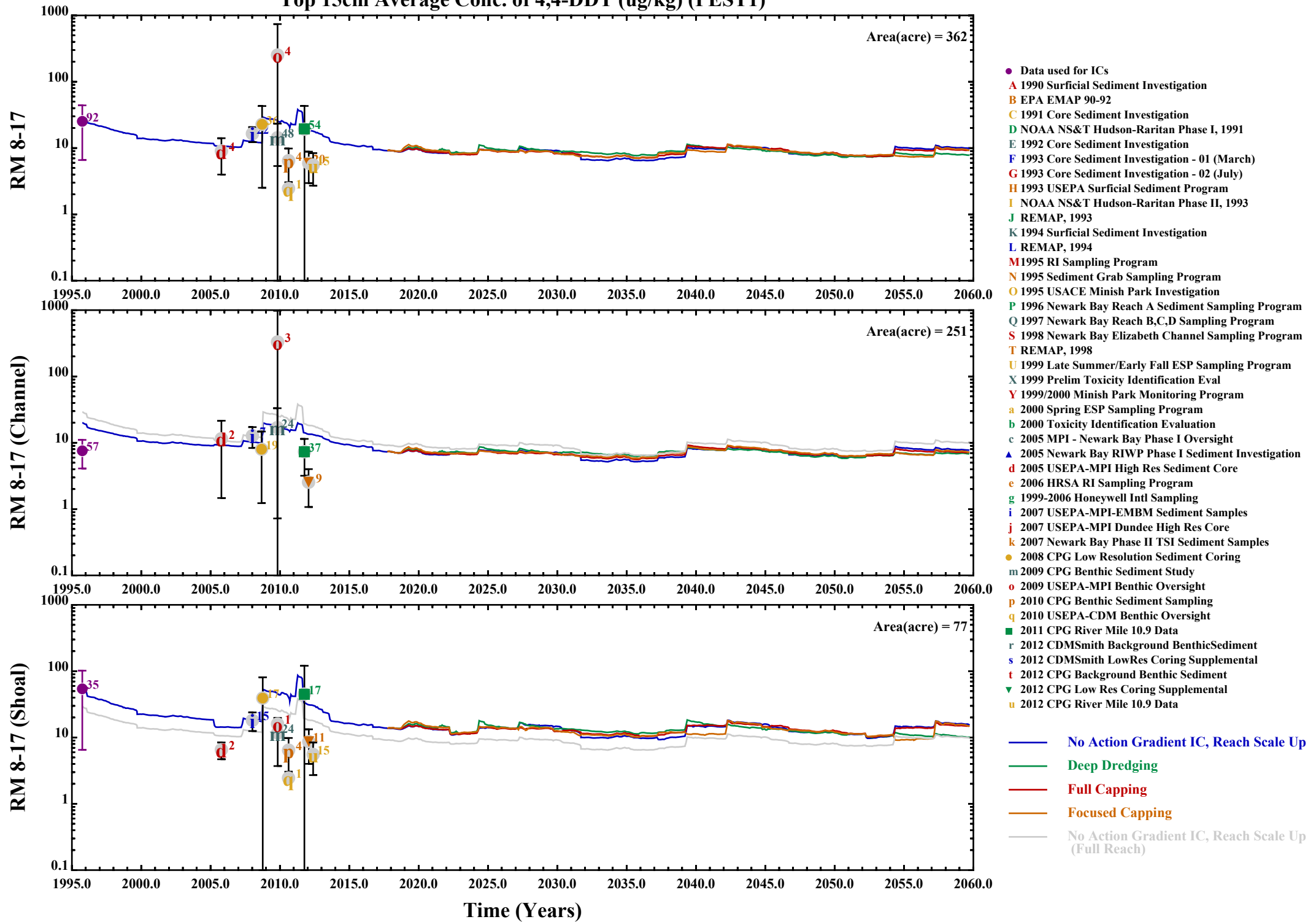
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 USEPA Surficial Sediment Program
  - 1994 NOAA NS&T Hudson-Raritan Phase II, 1993
  - 1994 REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



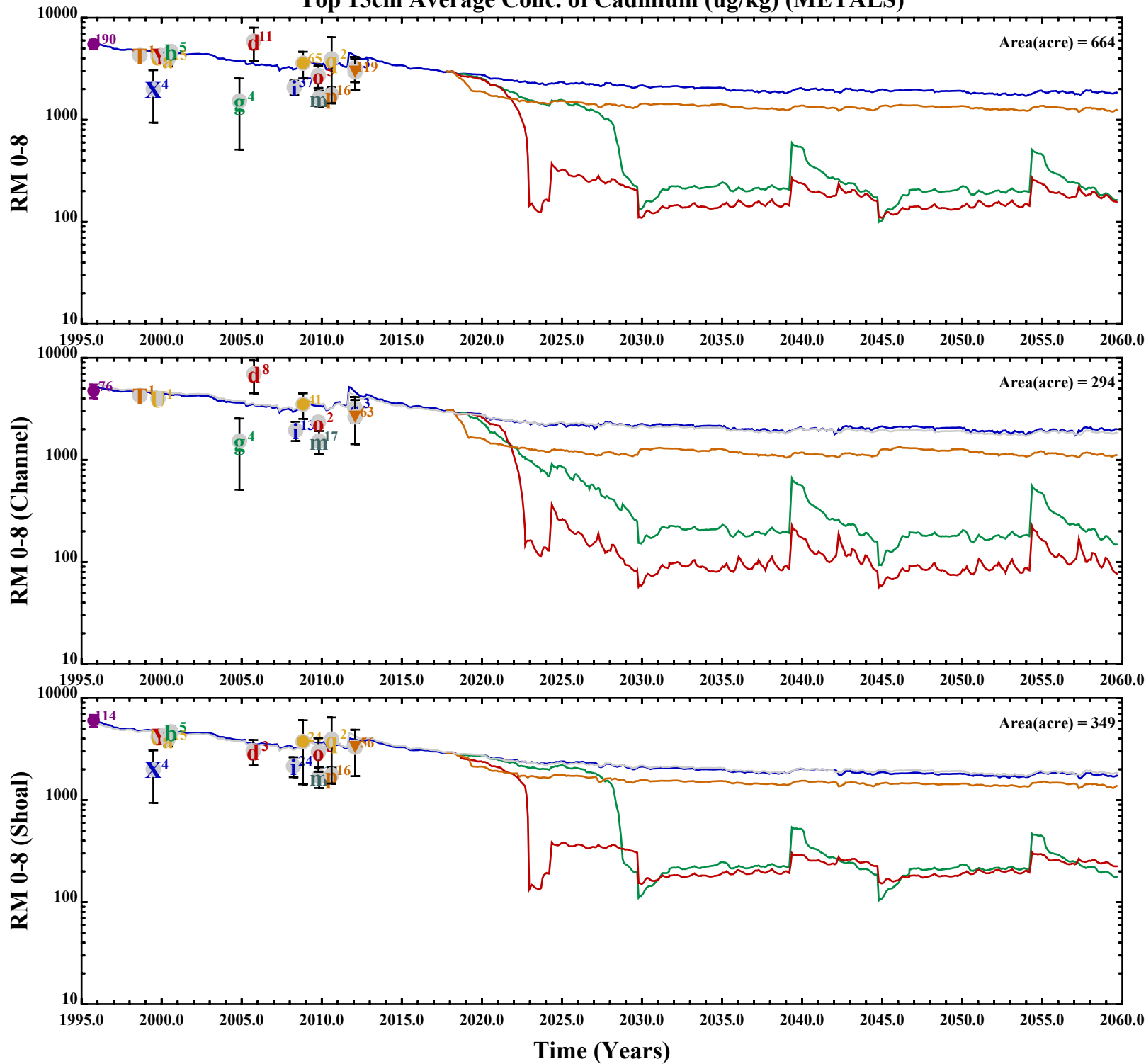
Area(acre) = 362

Area(acre) = 251

Area(acre) = 77

- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
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  - P 1996 Newark Bay Reach A Sediment Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

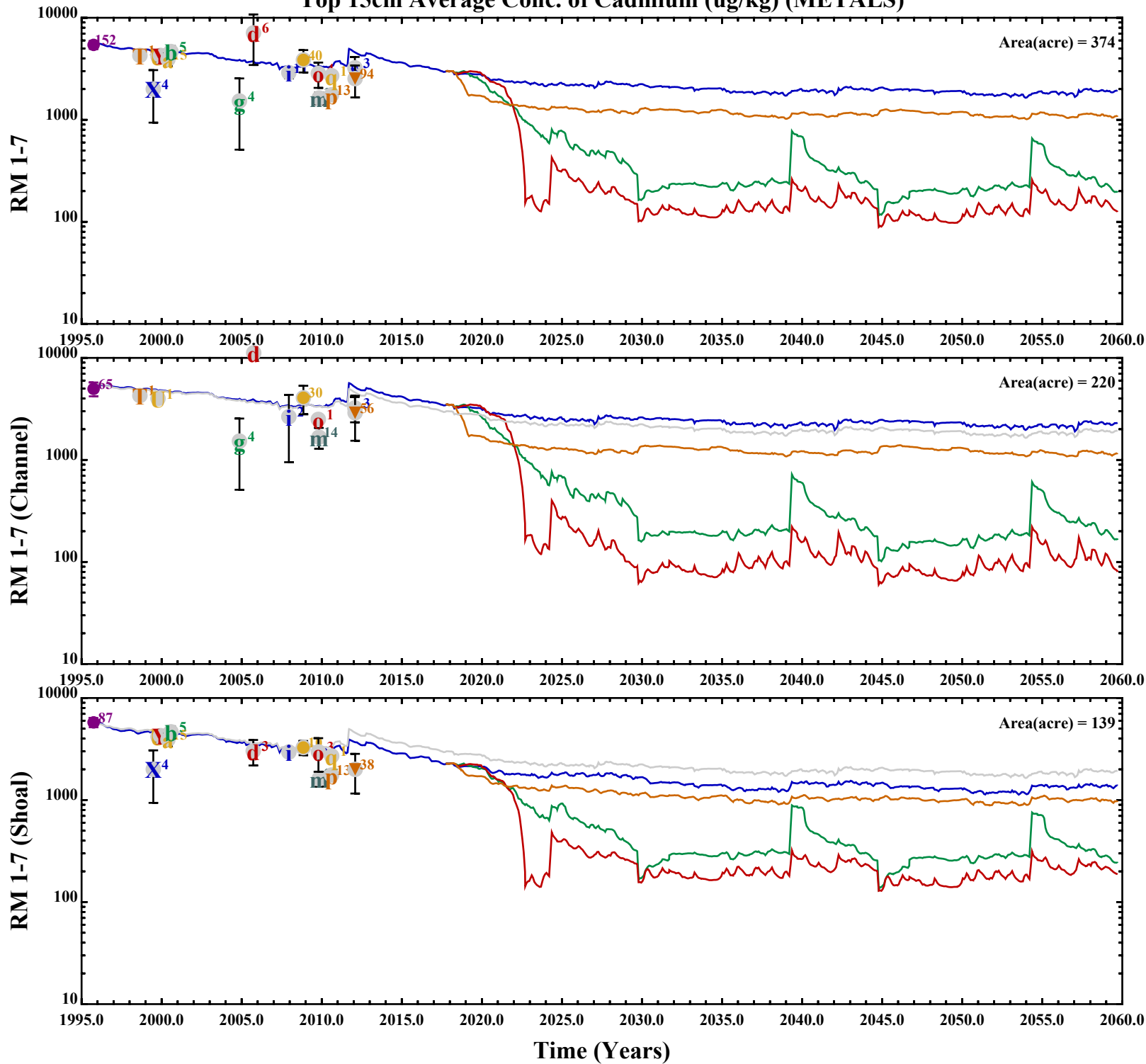
# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



- Data used for ICs
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
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  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
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  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

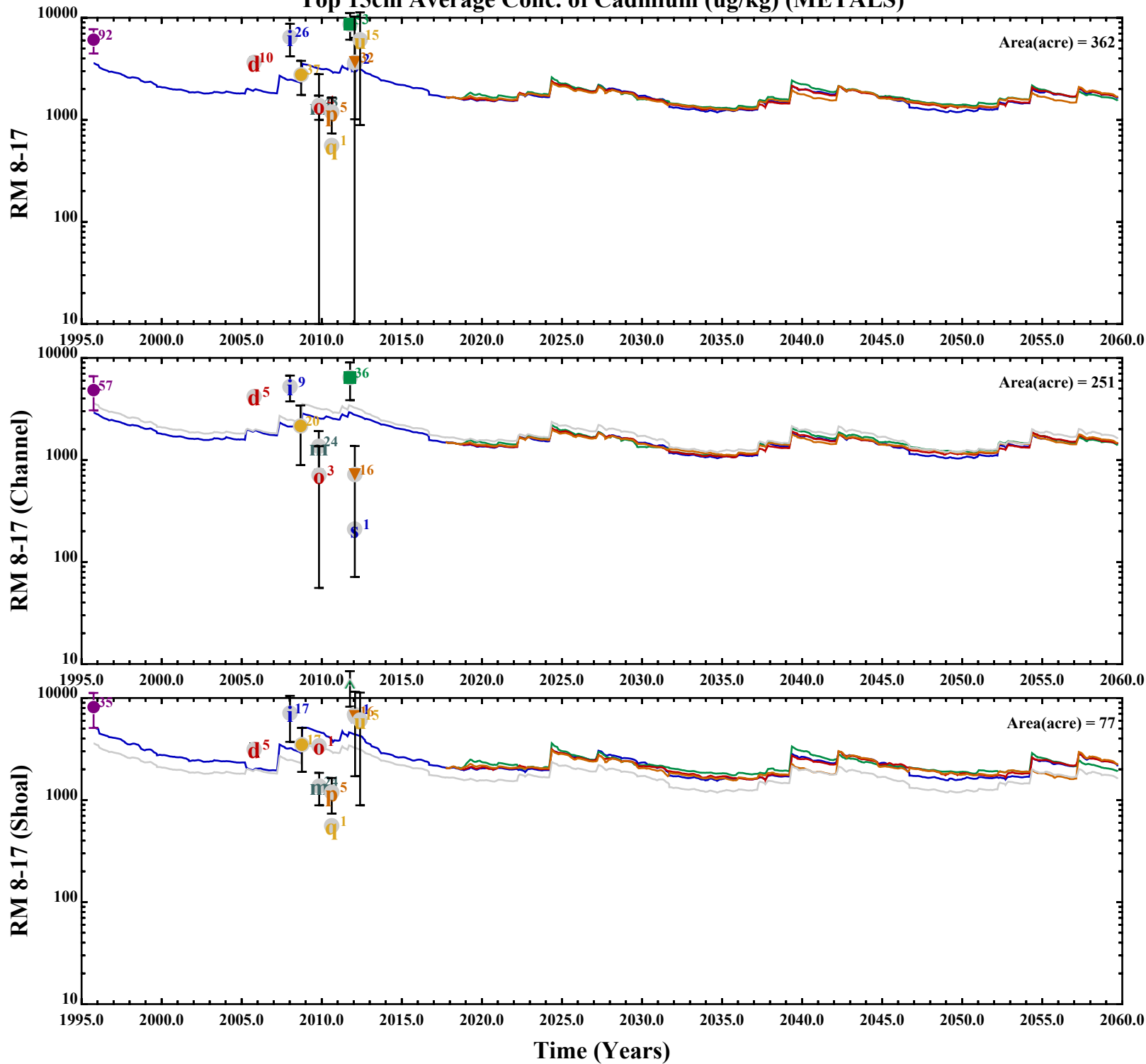


# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



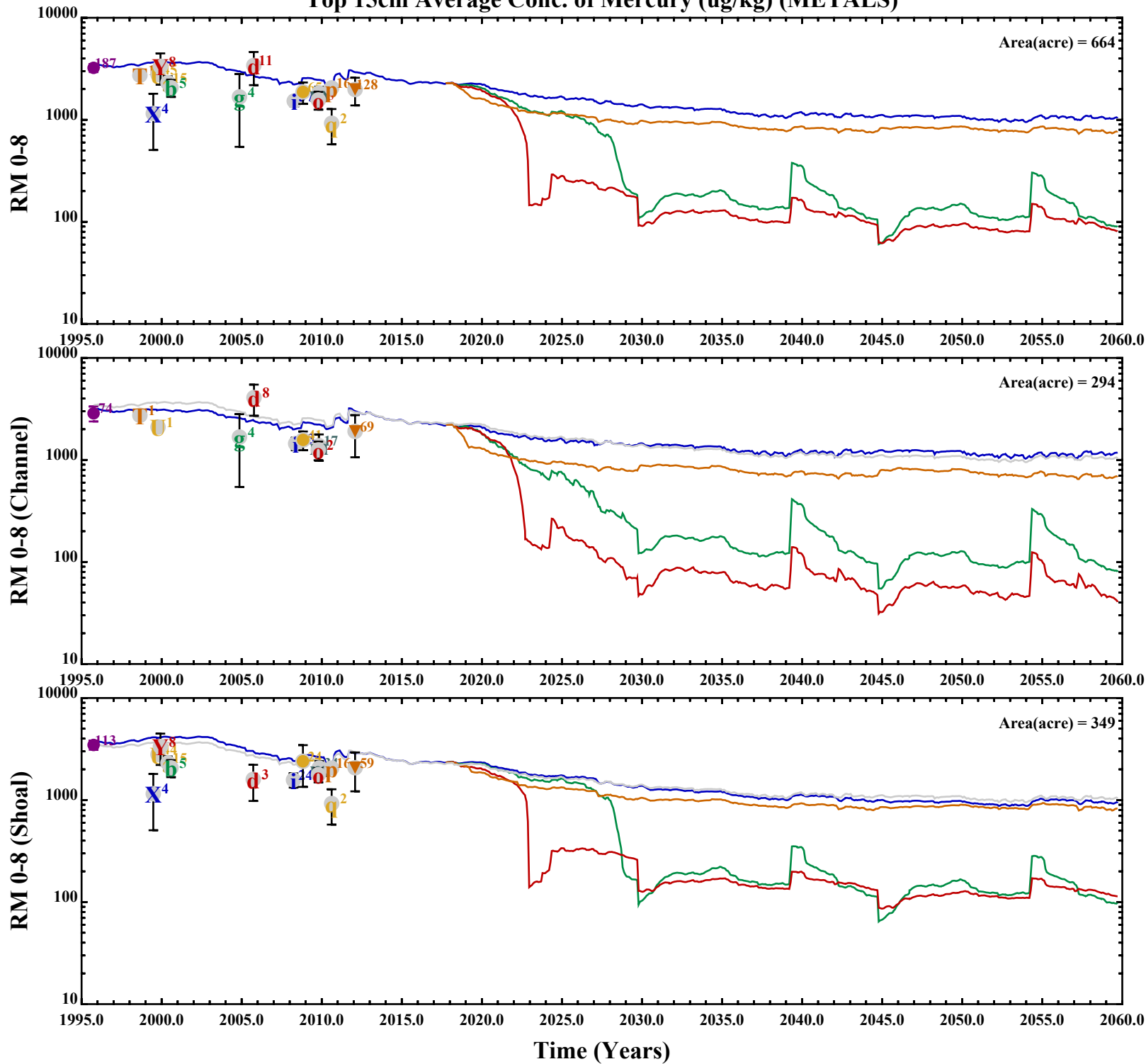
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



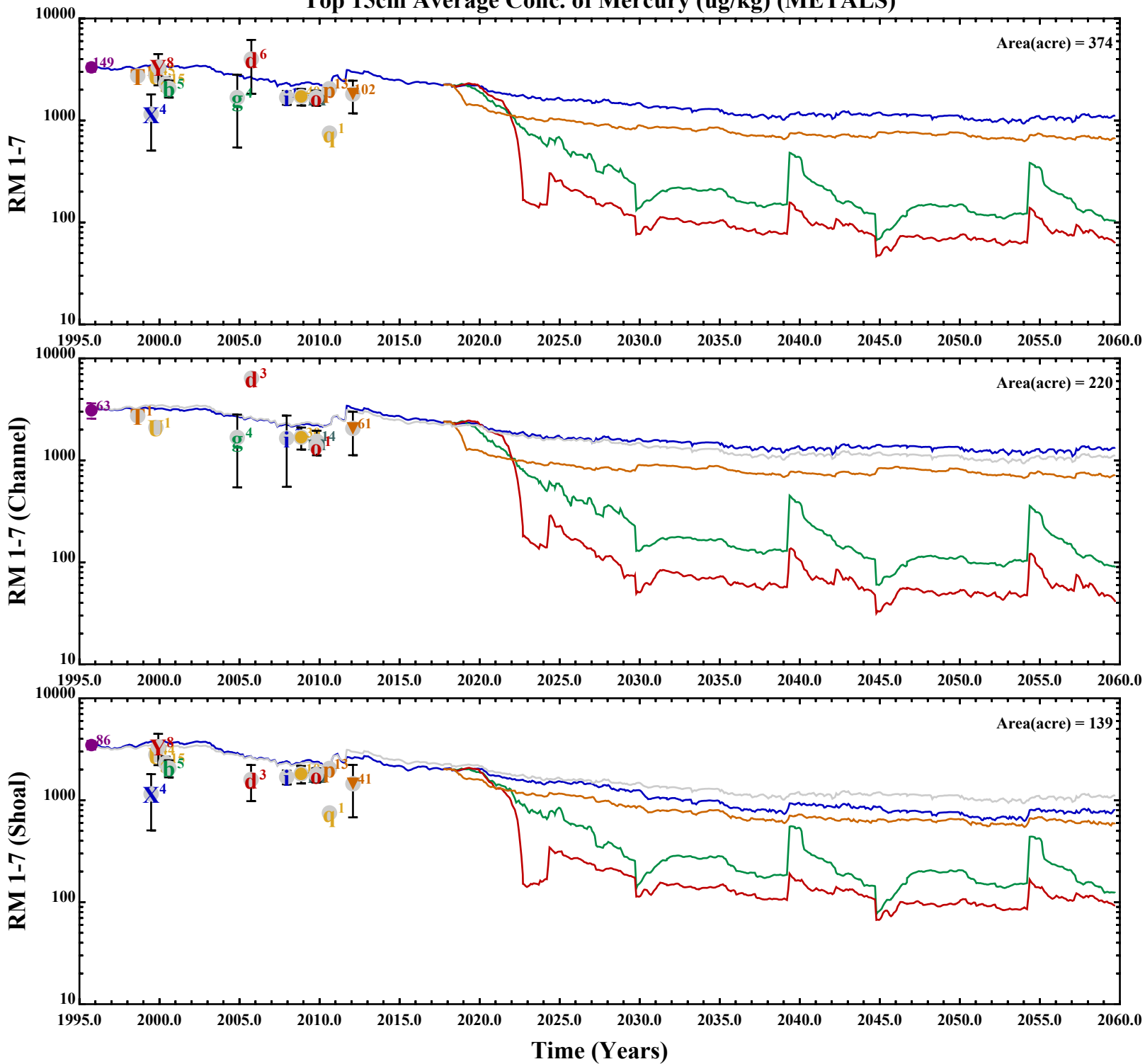
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  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - g 1999-2006 Honeywell Intl Sampling
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  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



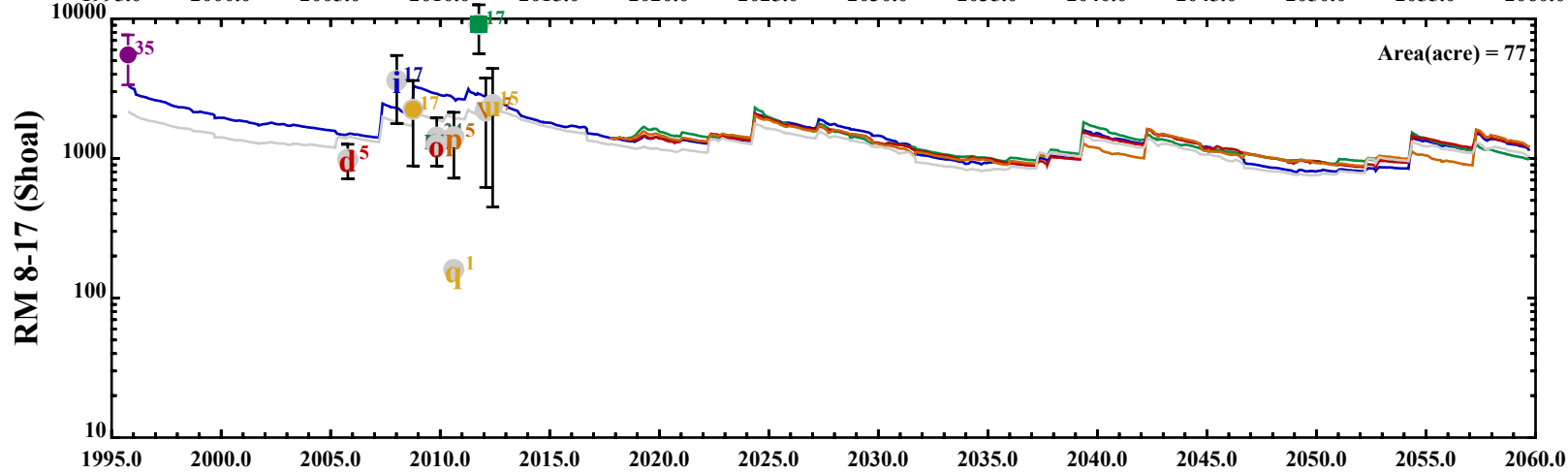
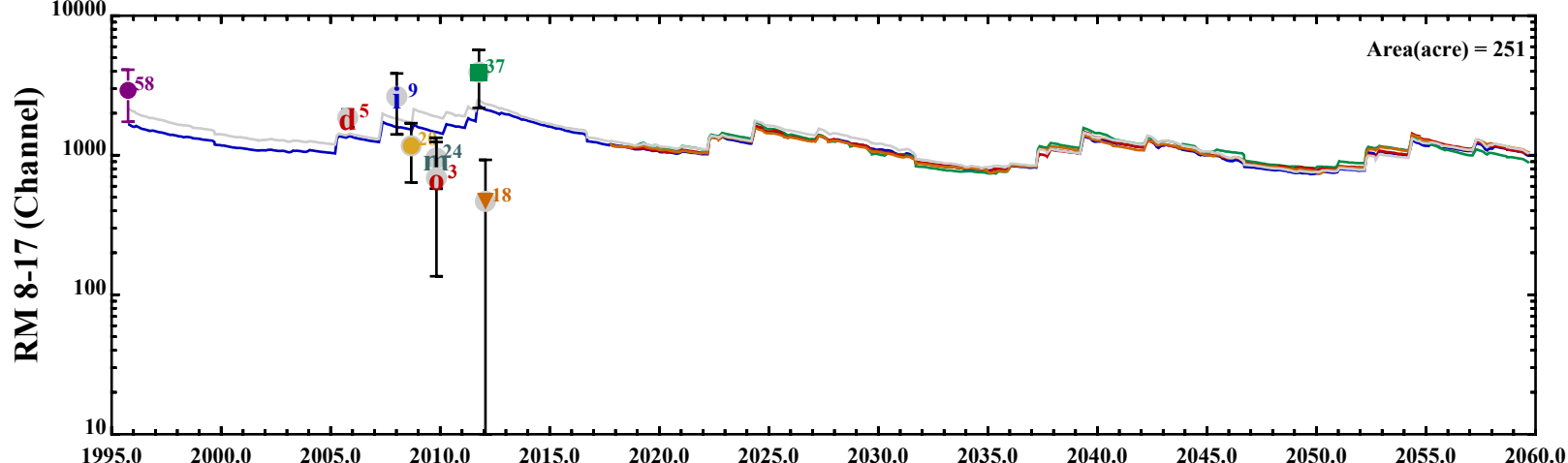
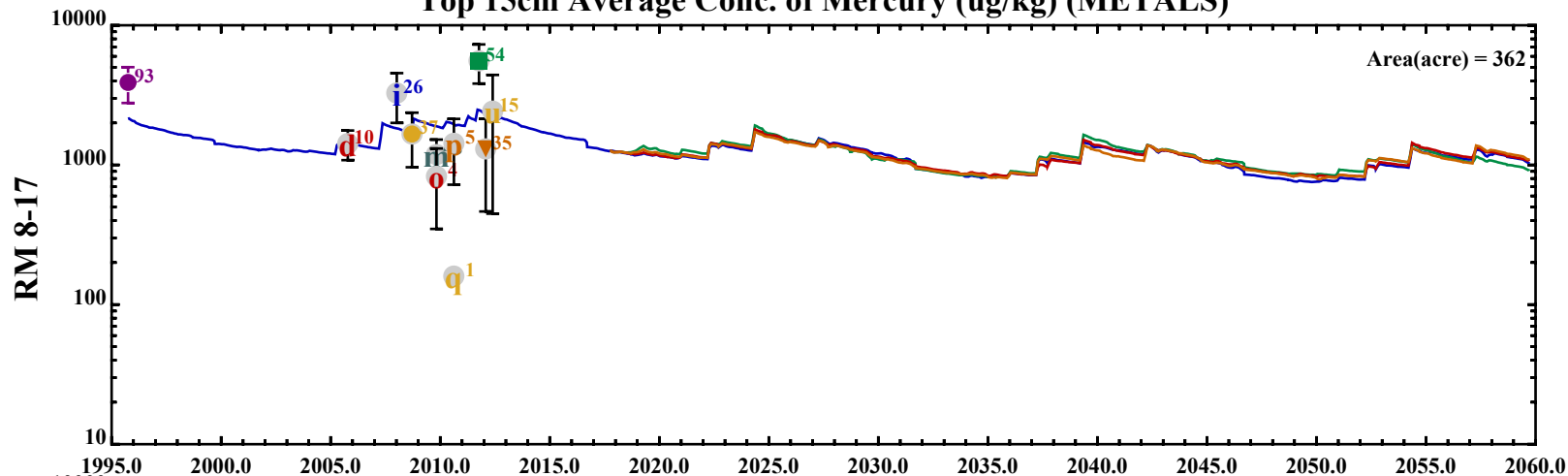
- Data used for ICs
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  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 1995 USACE Minish Park Investigation
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  - REMAP, 1998
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  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
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  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

## Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - i 2007 USEPA-MPI-EMBM Sediment Samples
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  - k 2007 Newark Bay Phase II TSI Sediment Samples
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  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

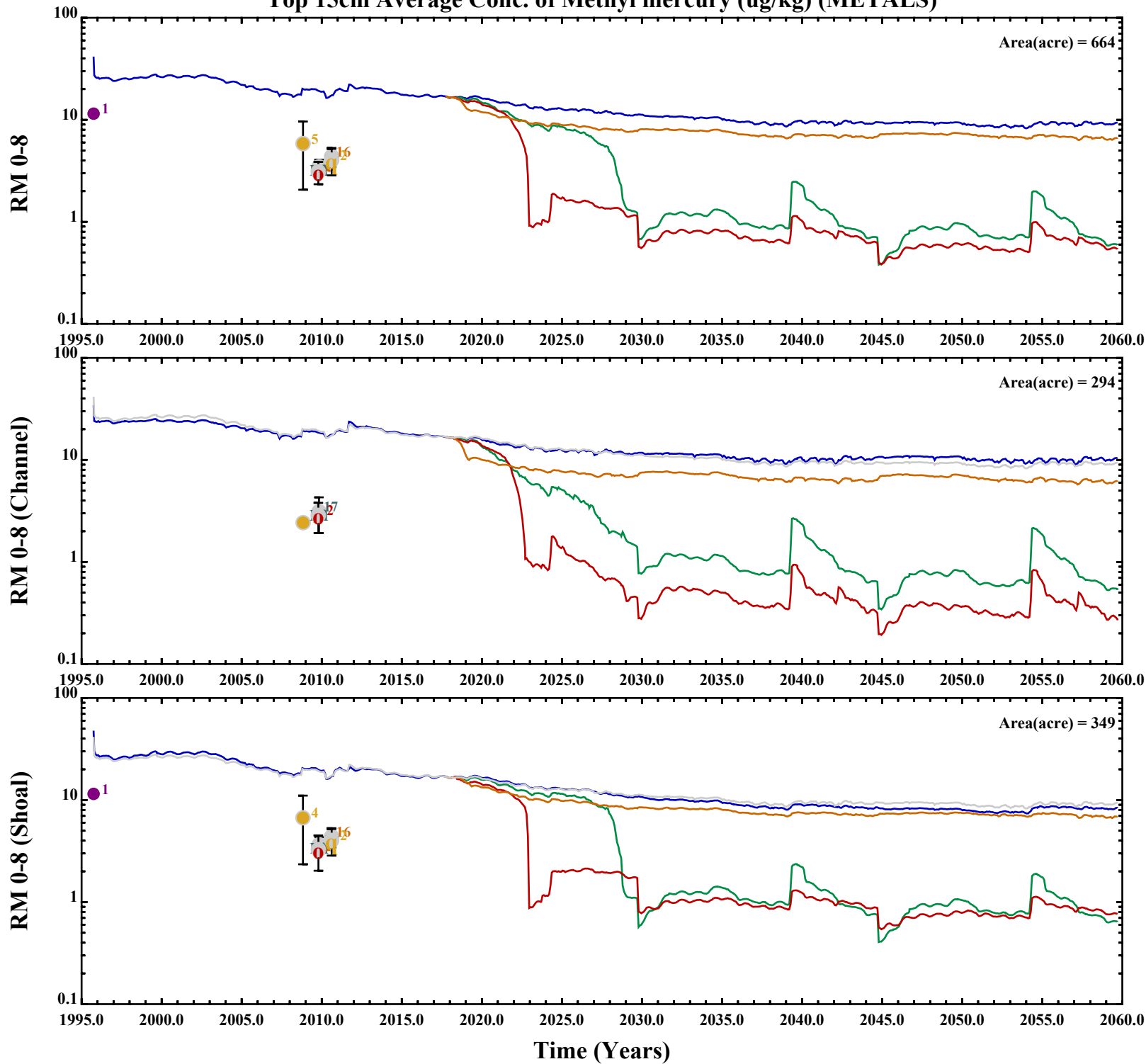
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



- Data used for ICs
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
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  - REMAP, 1994
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  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - 2009 CPG Benthic Sediment Study
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  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

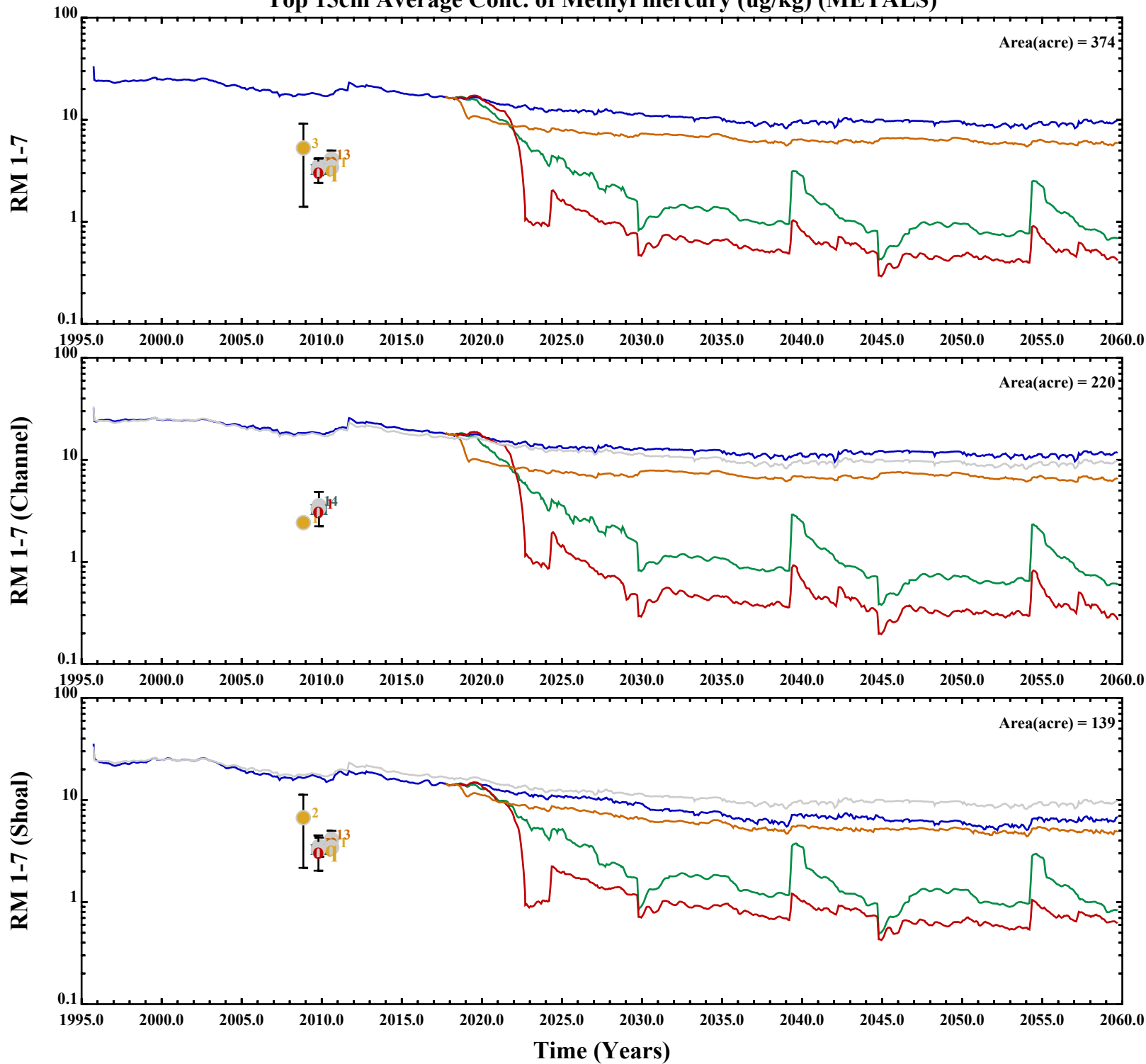
Time (Years)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



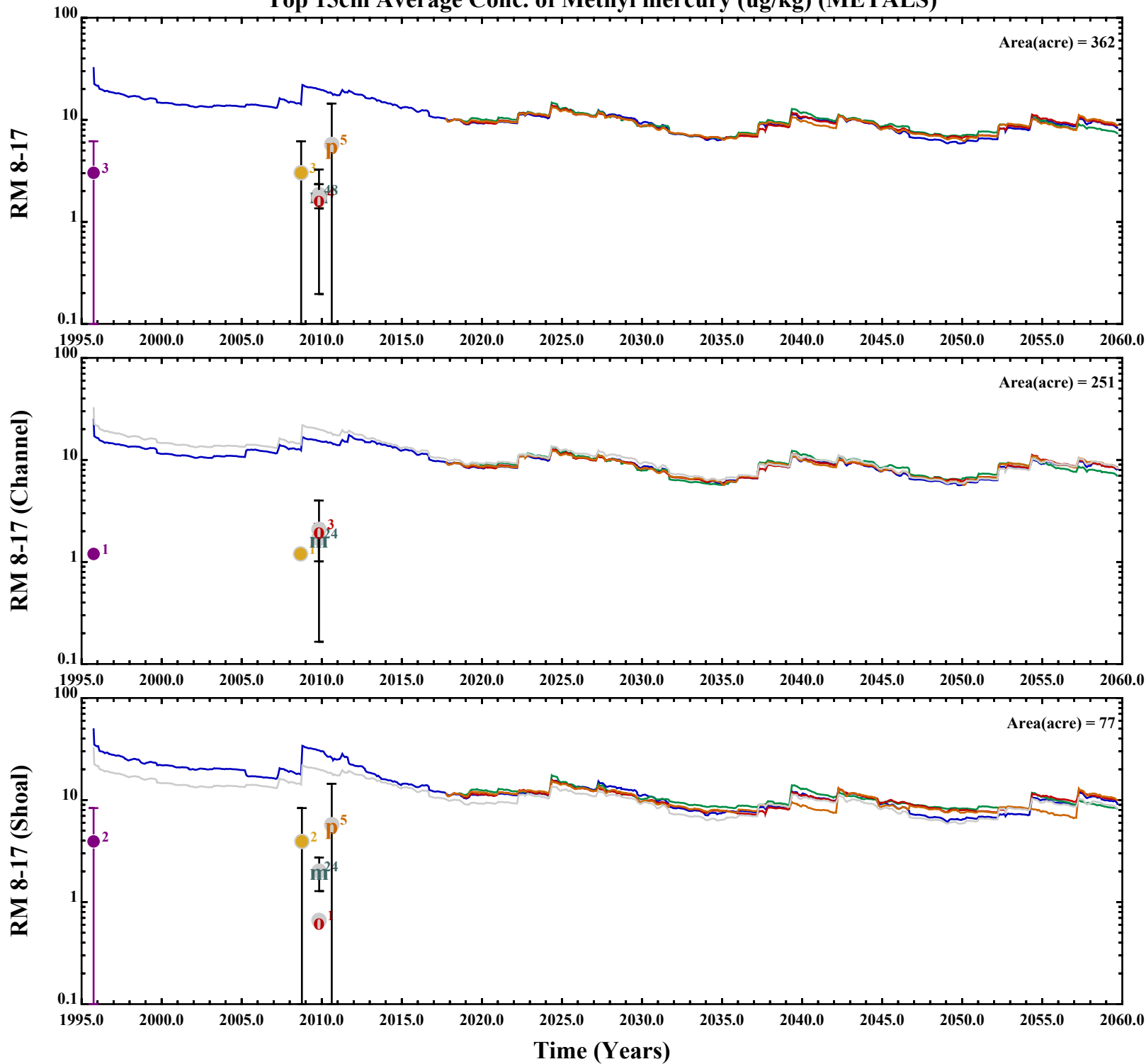
- Data used for ICs
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
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  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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  - 1995 USACE Minish Park Investigation
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
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  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
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  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - U 1999 Late Summer/Early Fall ESP Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
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  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
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  - s 2012 CDMSmith LowRes Coring Supplemental
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

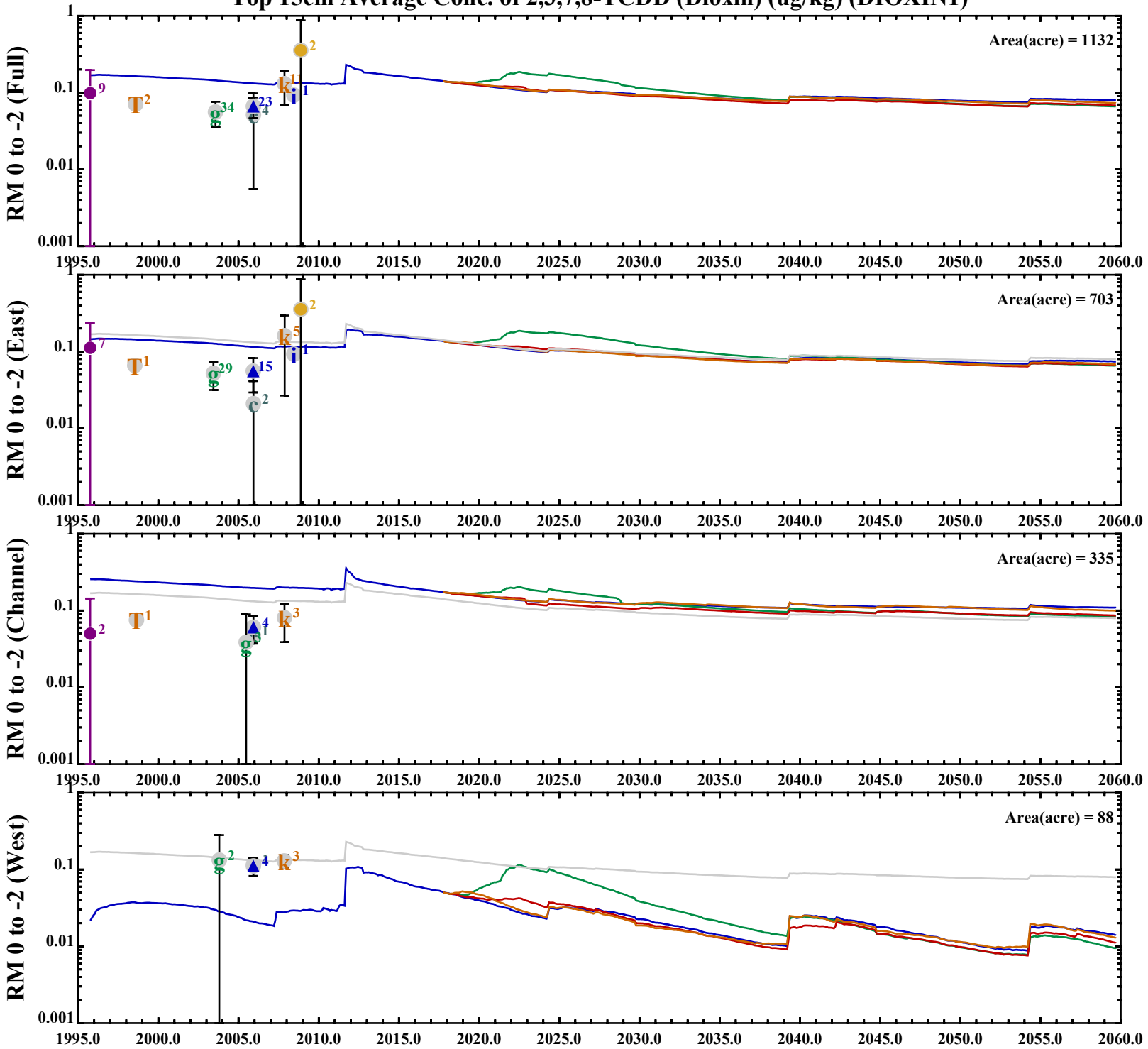


**Attachment E-2**

**Newark Bay Surface Sediment Reach**

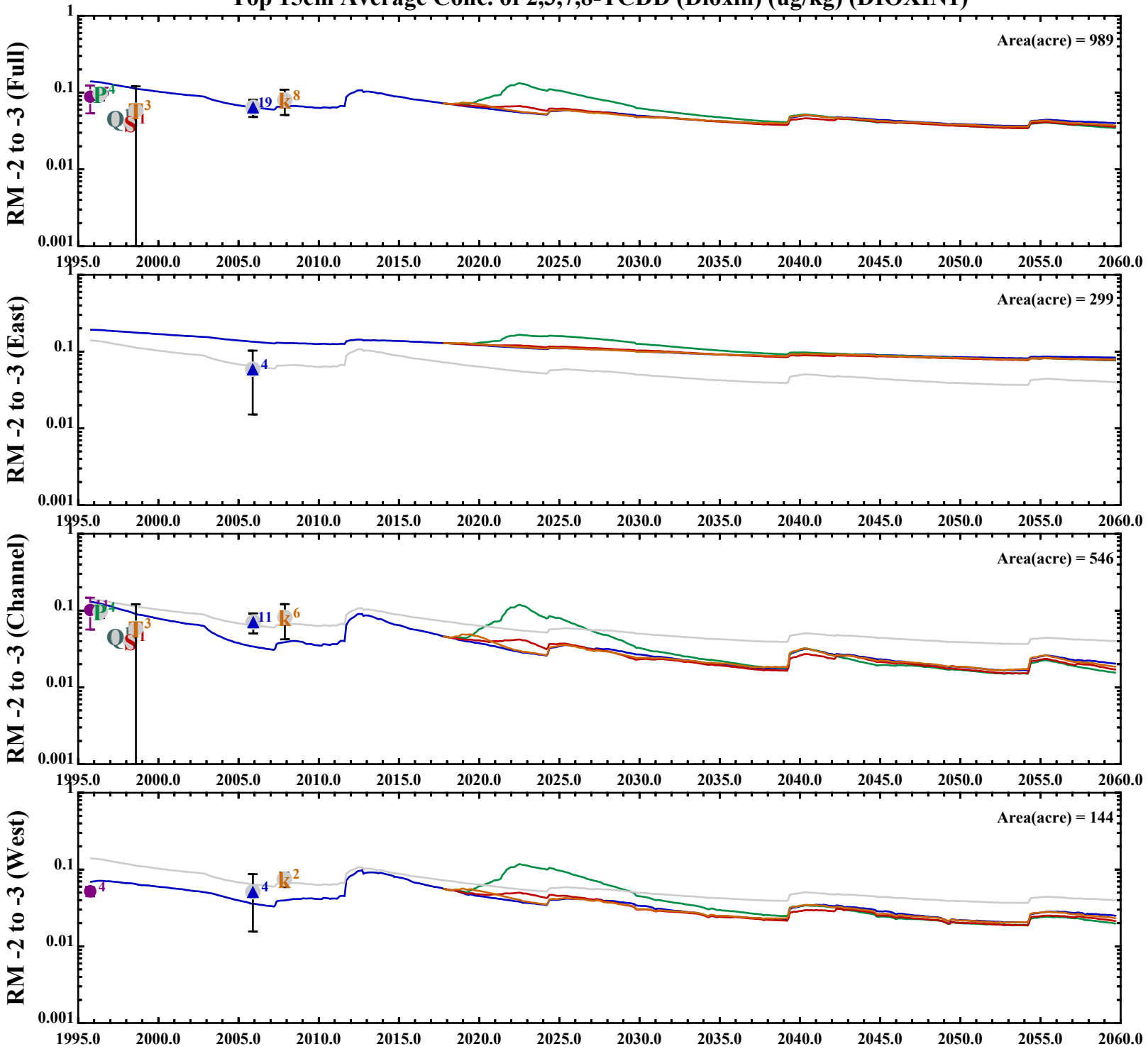
**Average Time Series Projections**

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



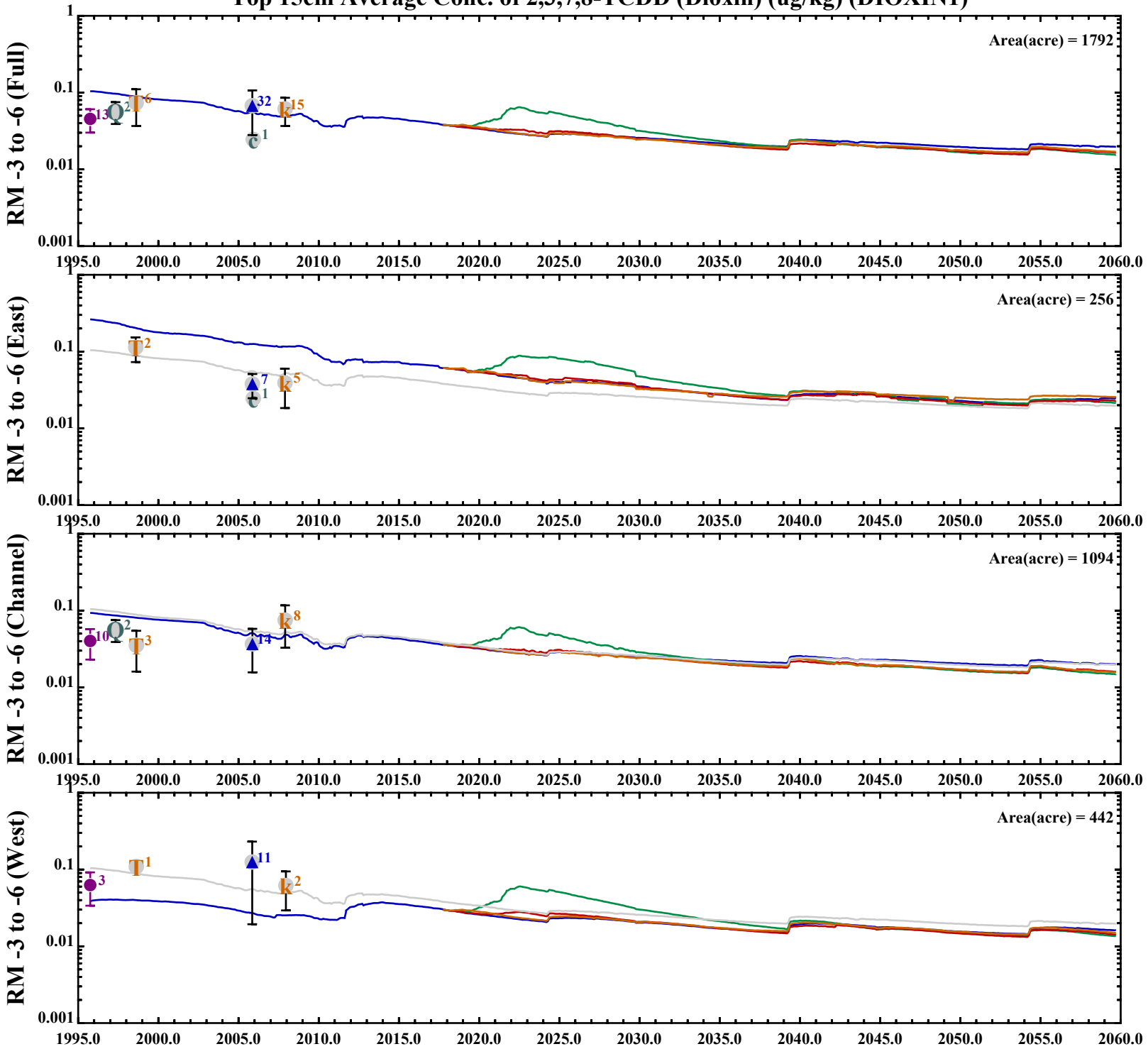
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
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  - m 2009 CPG Benthic Sediment Study
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  - p 2010 CPG Benthic Sediment Sampling
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  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
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  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



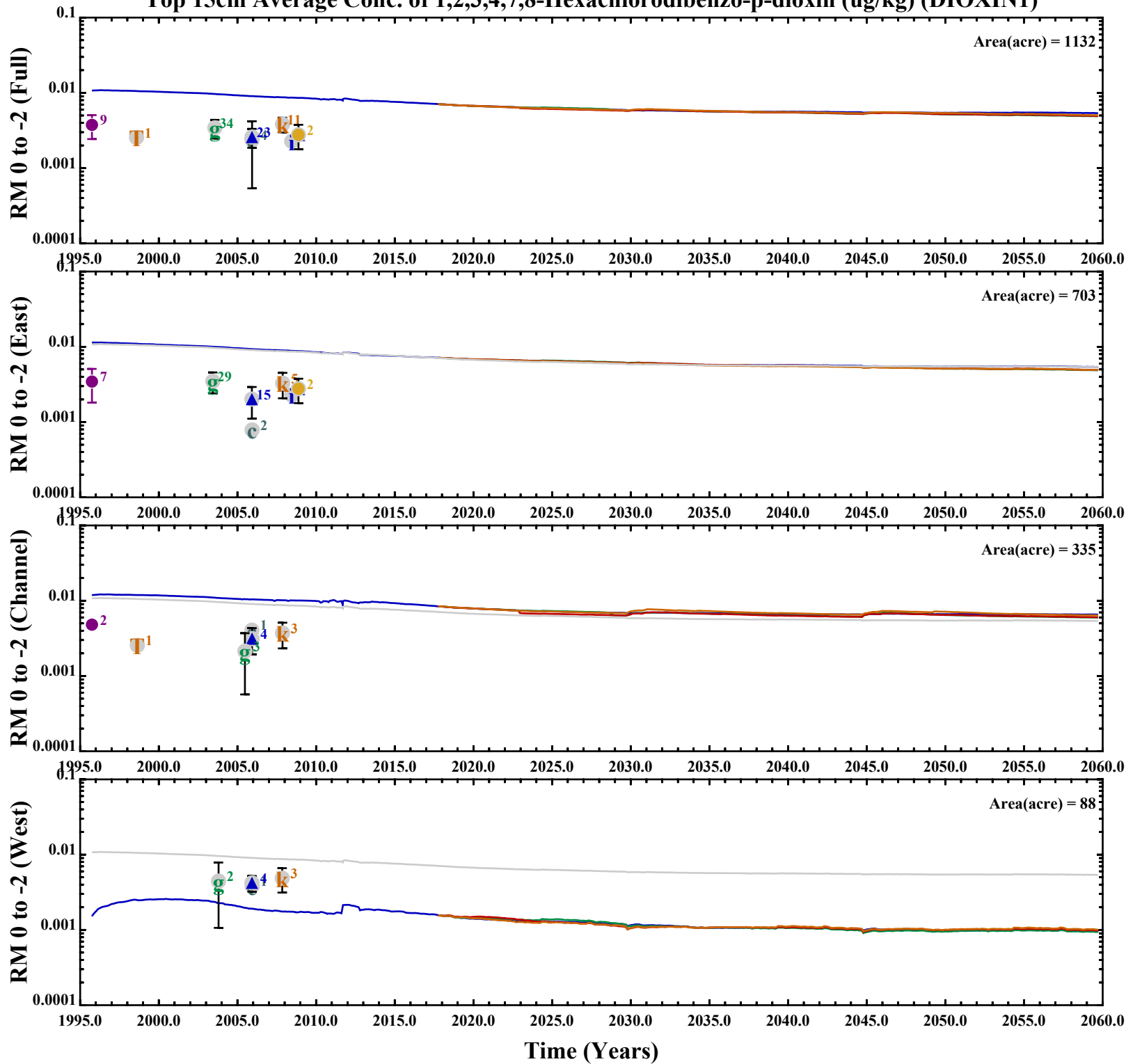
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



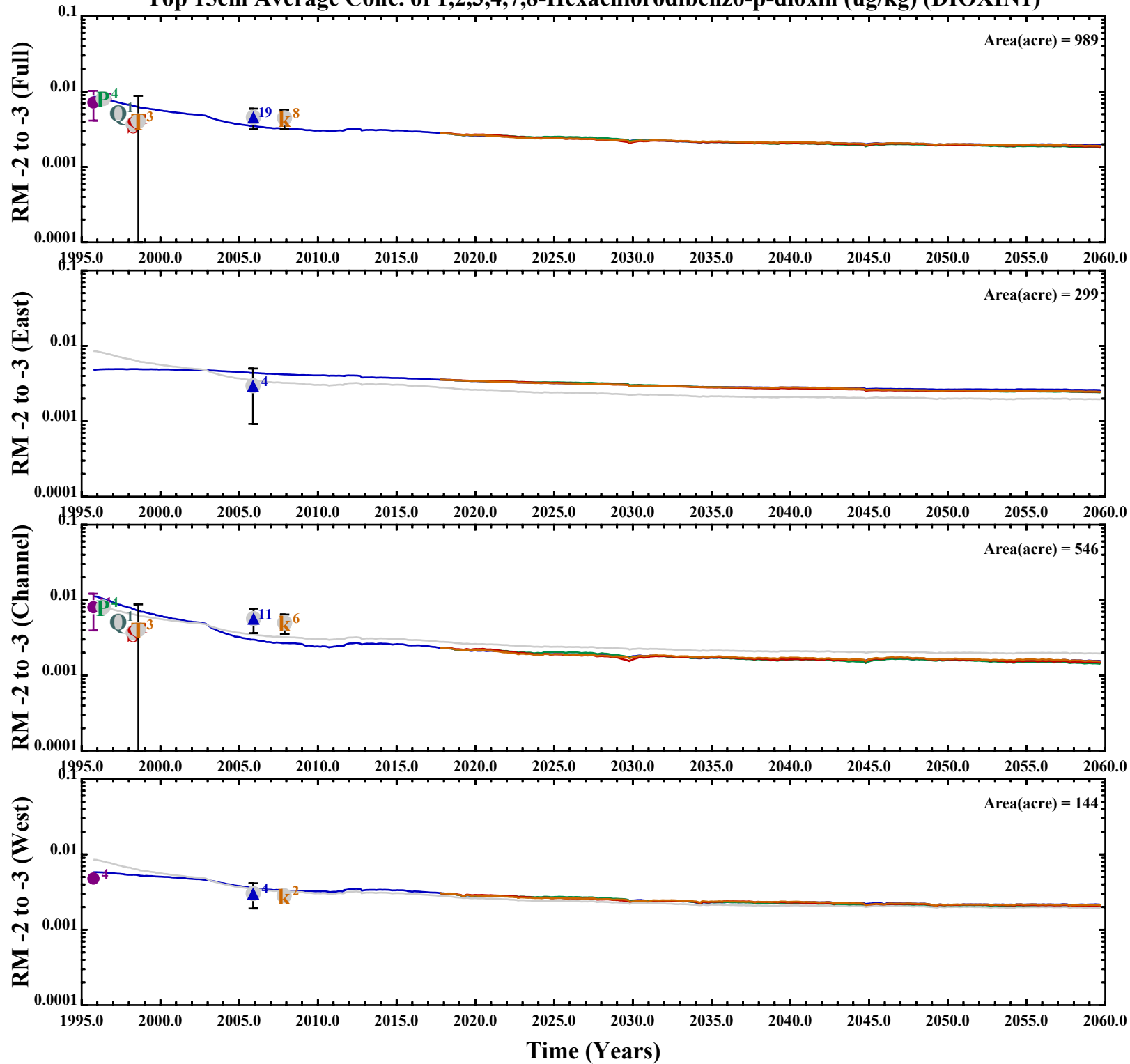
Time (Years)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

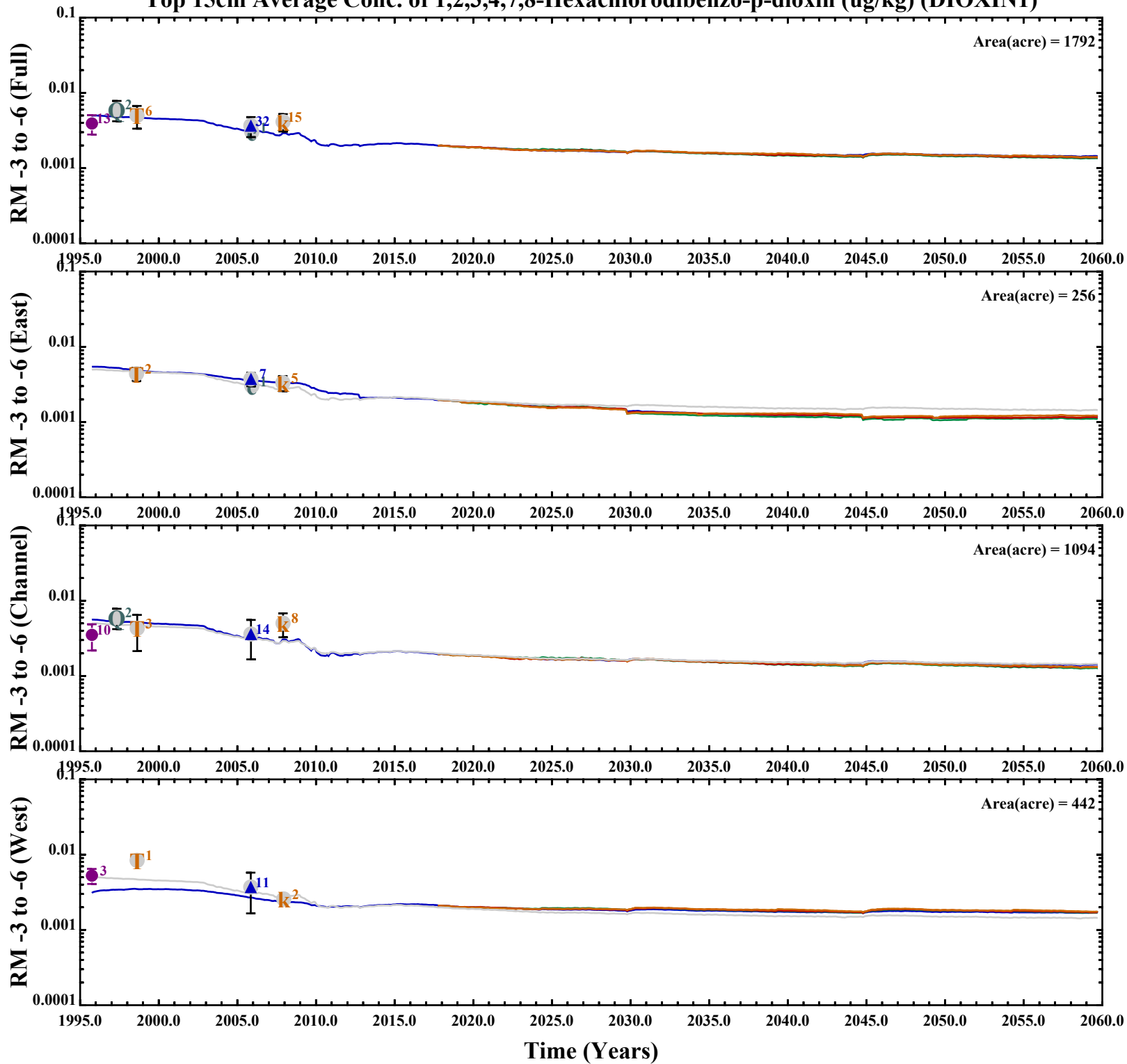
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

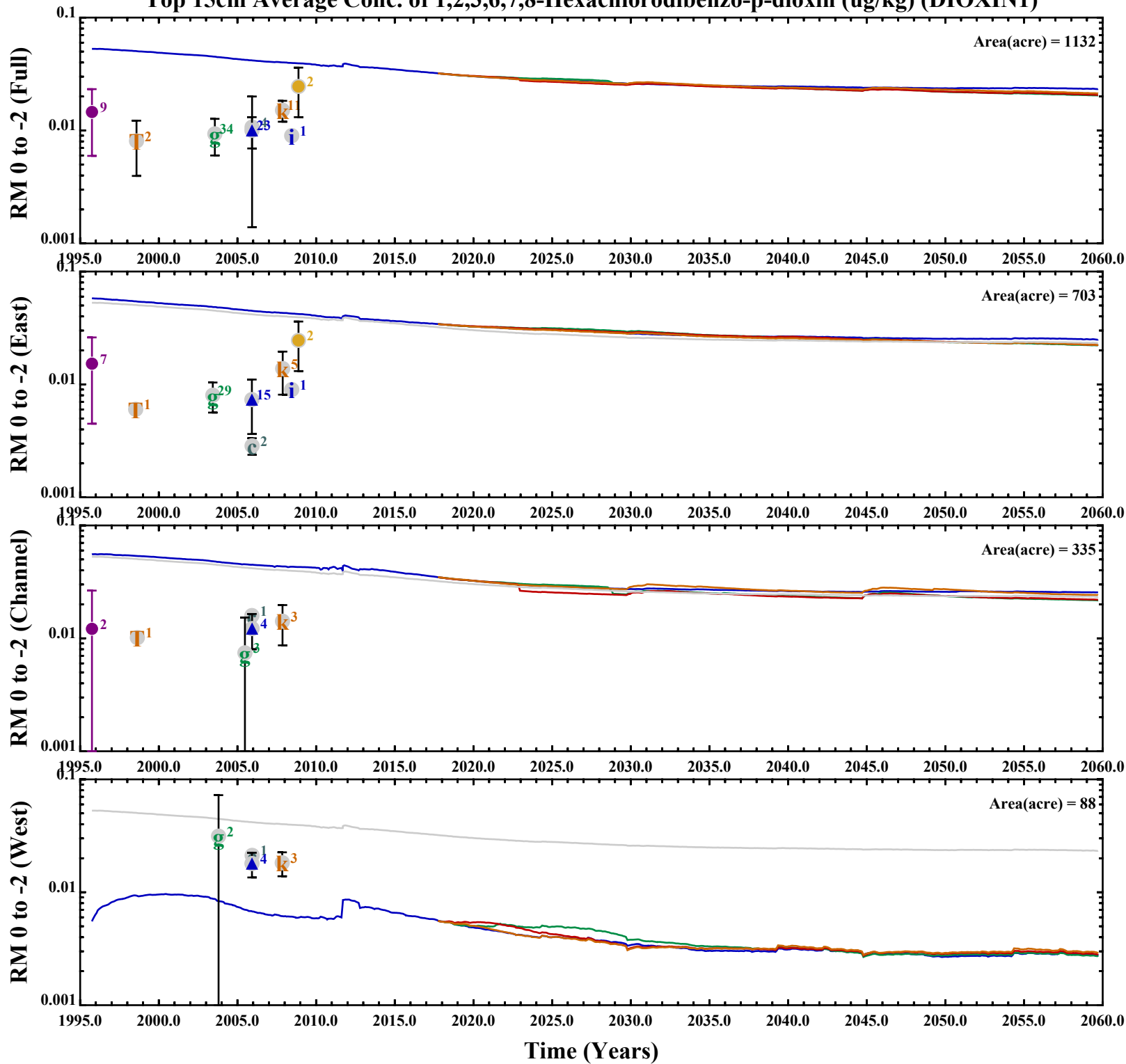
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

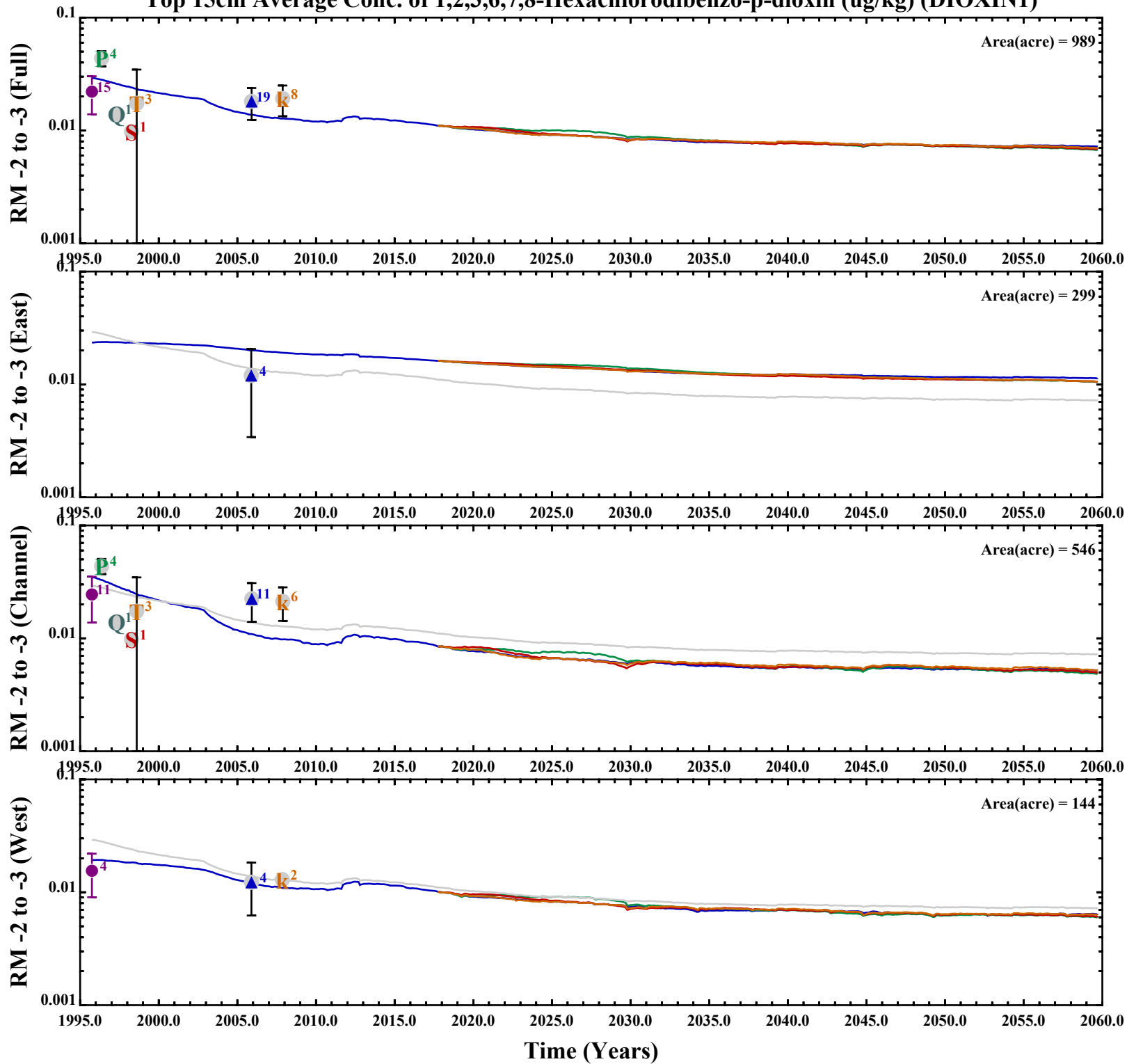
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

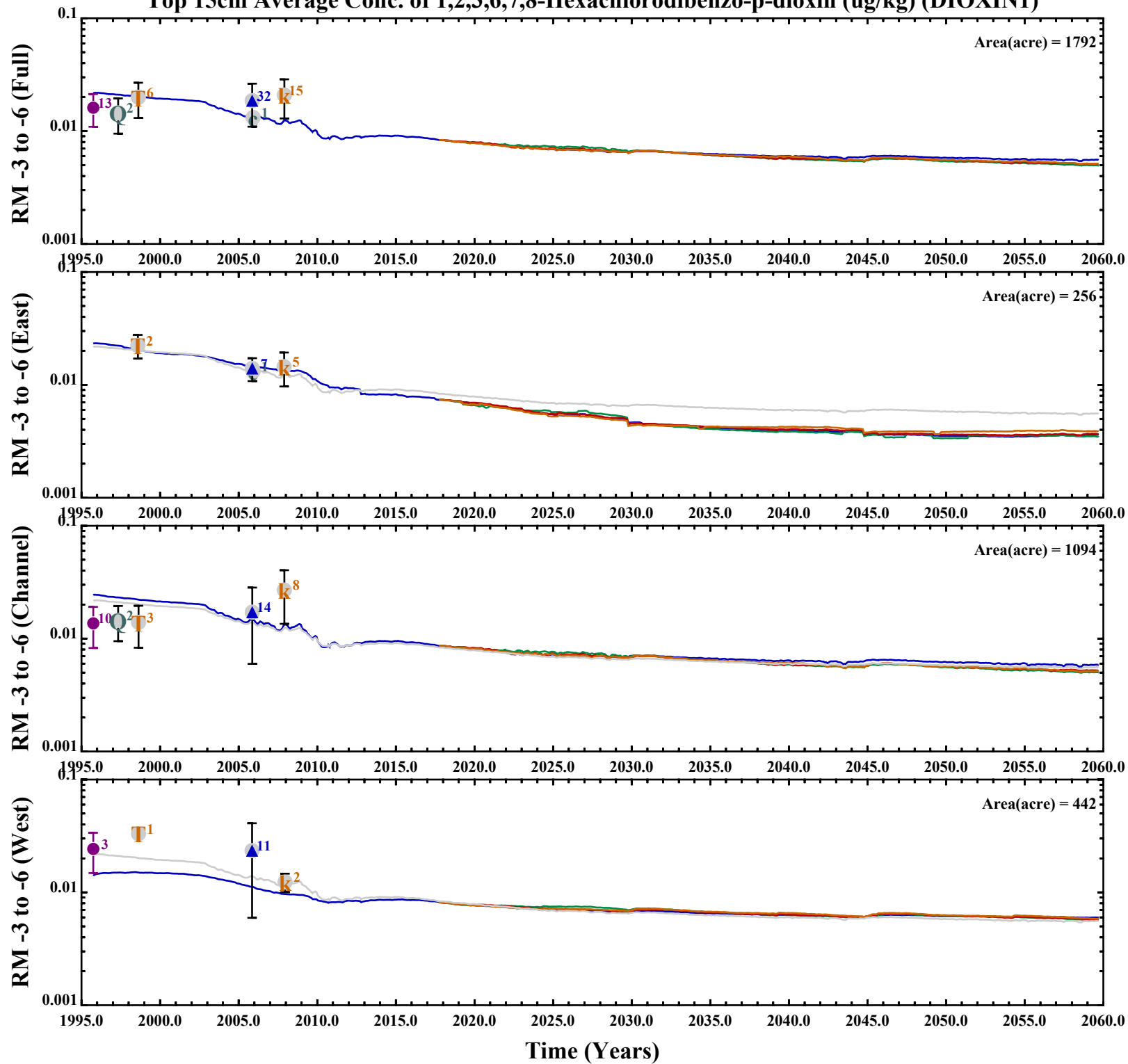


# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

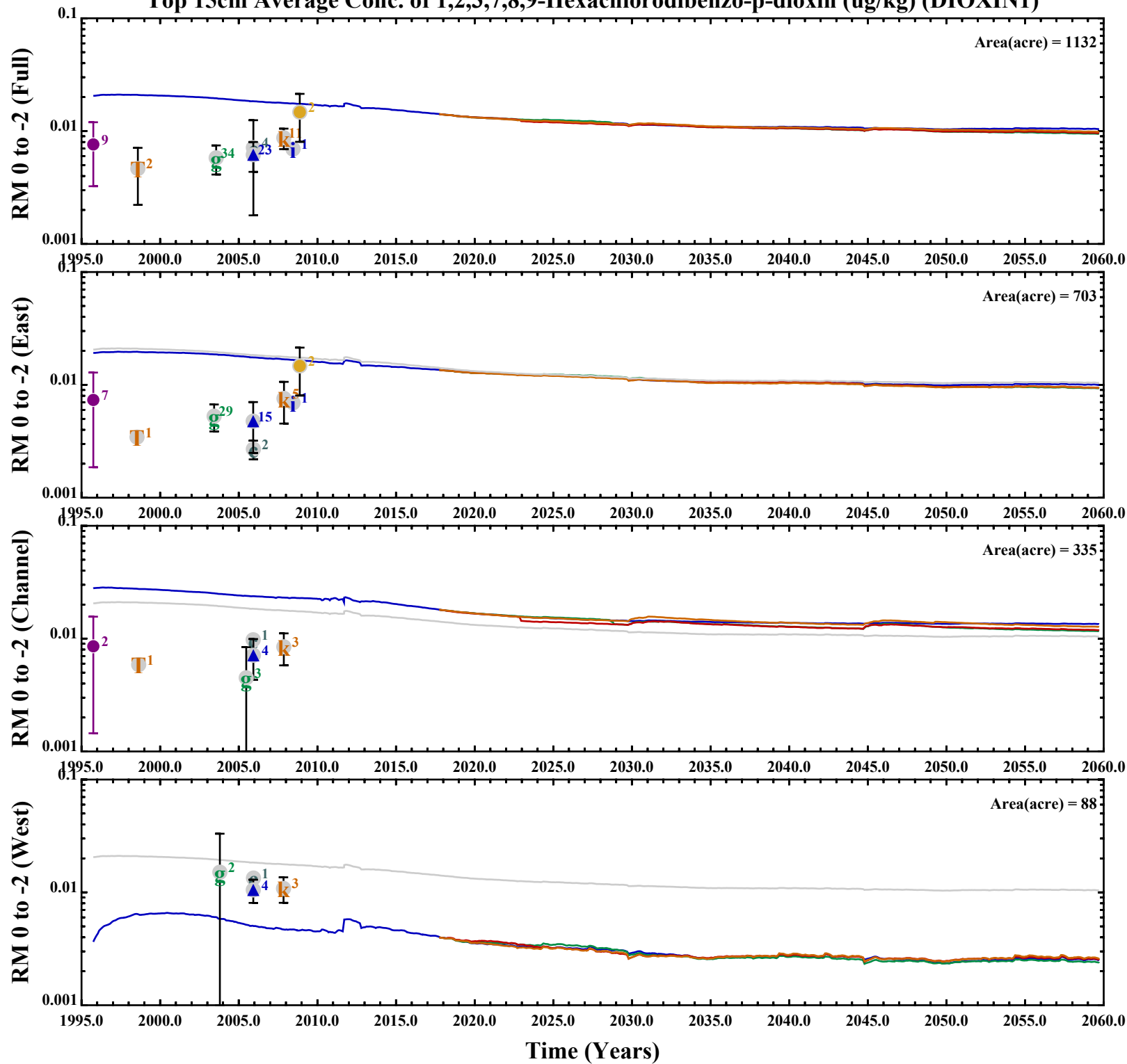
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
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- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

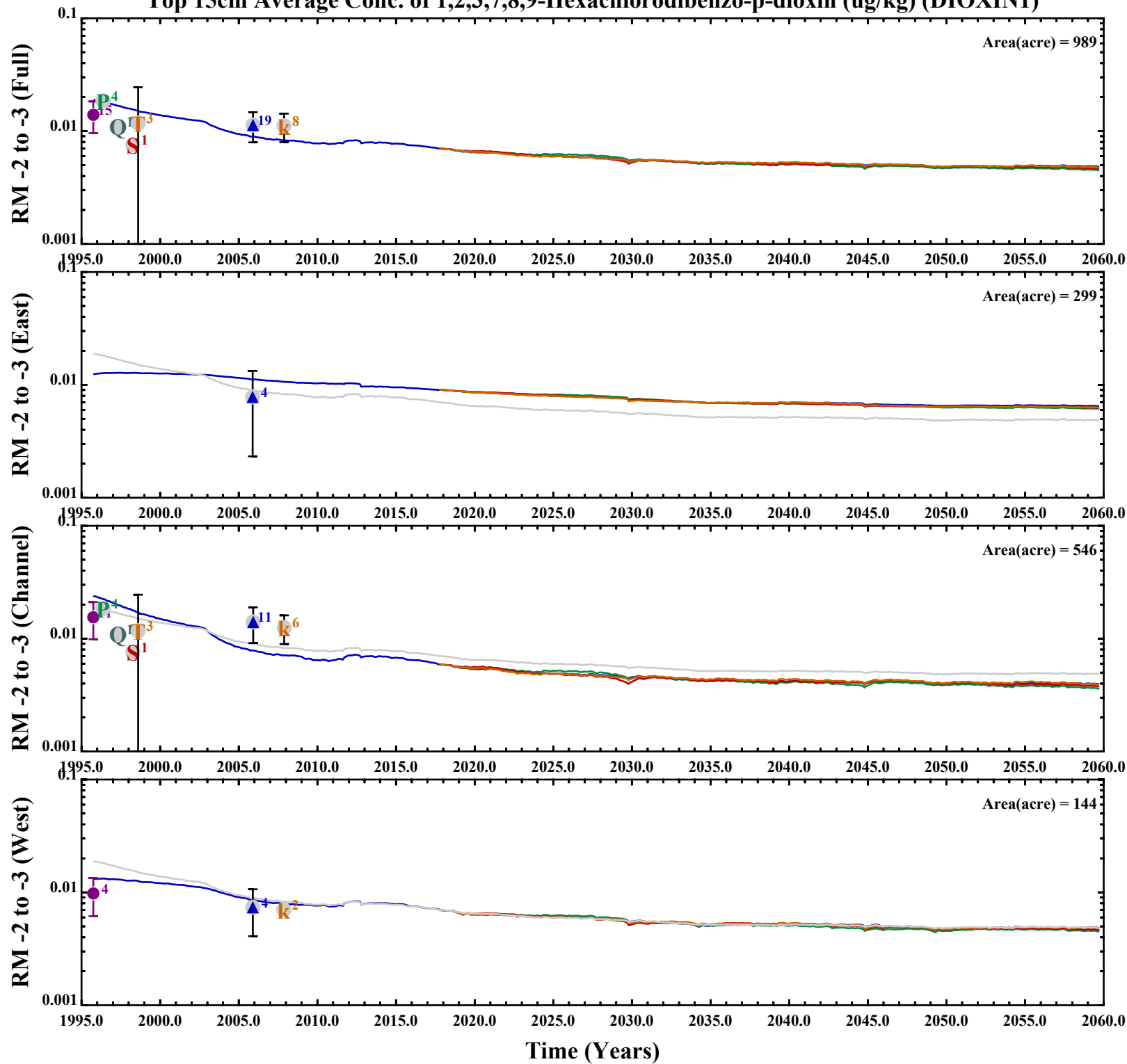
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

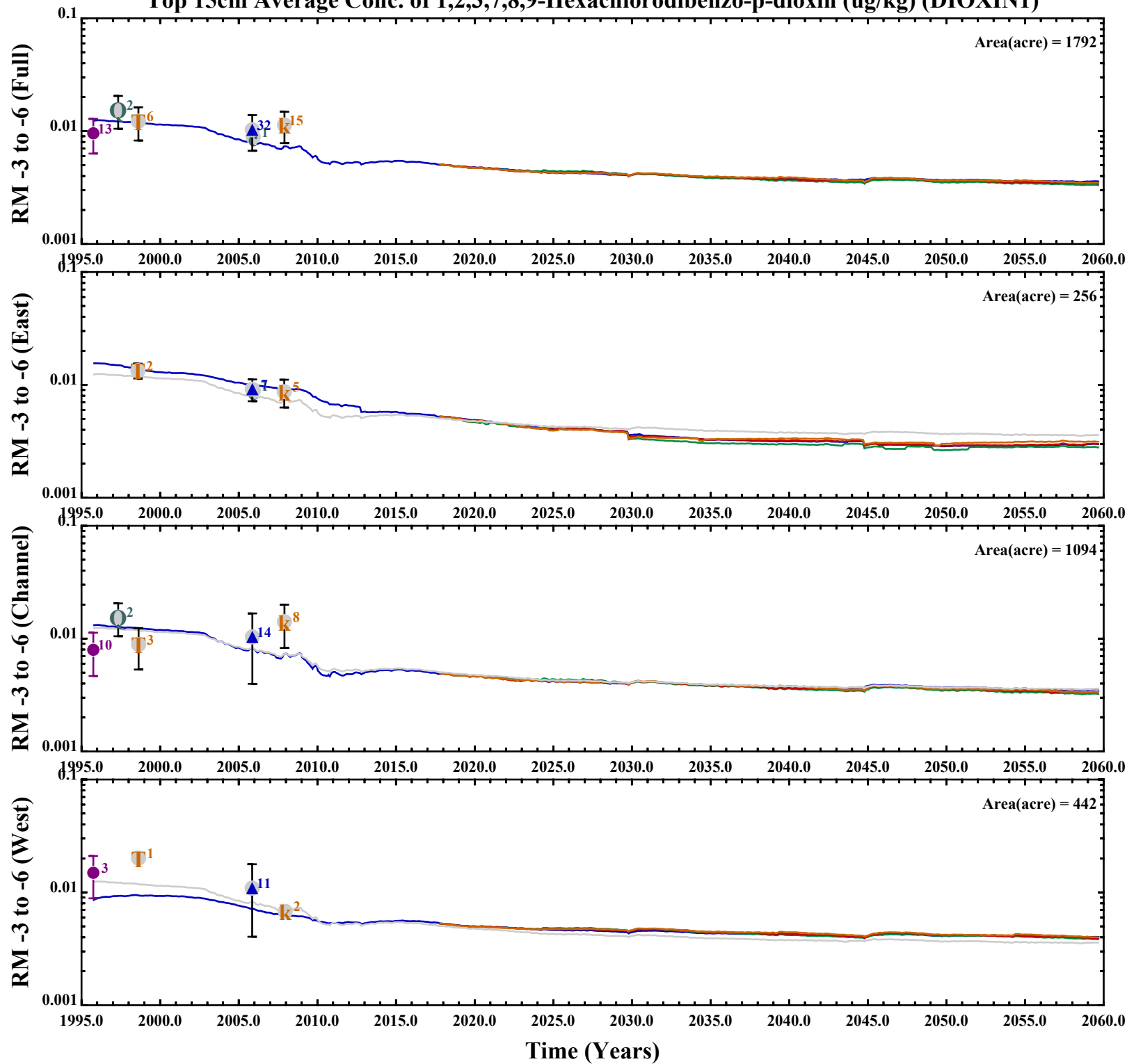
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

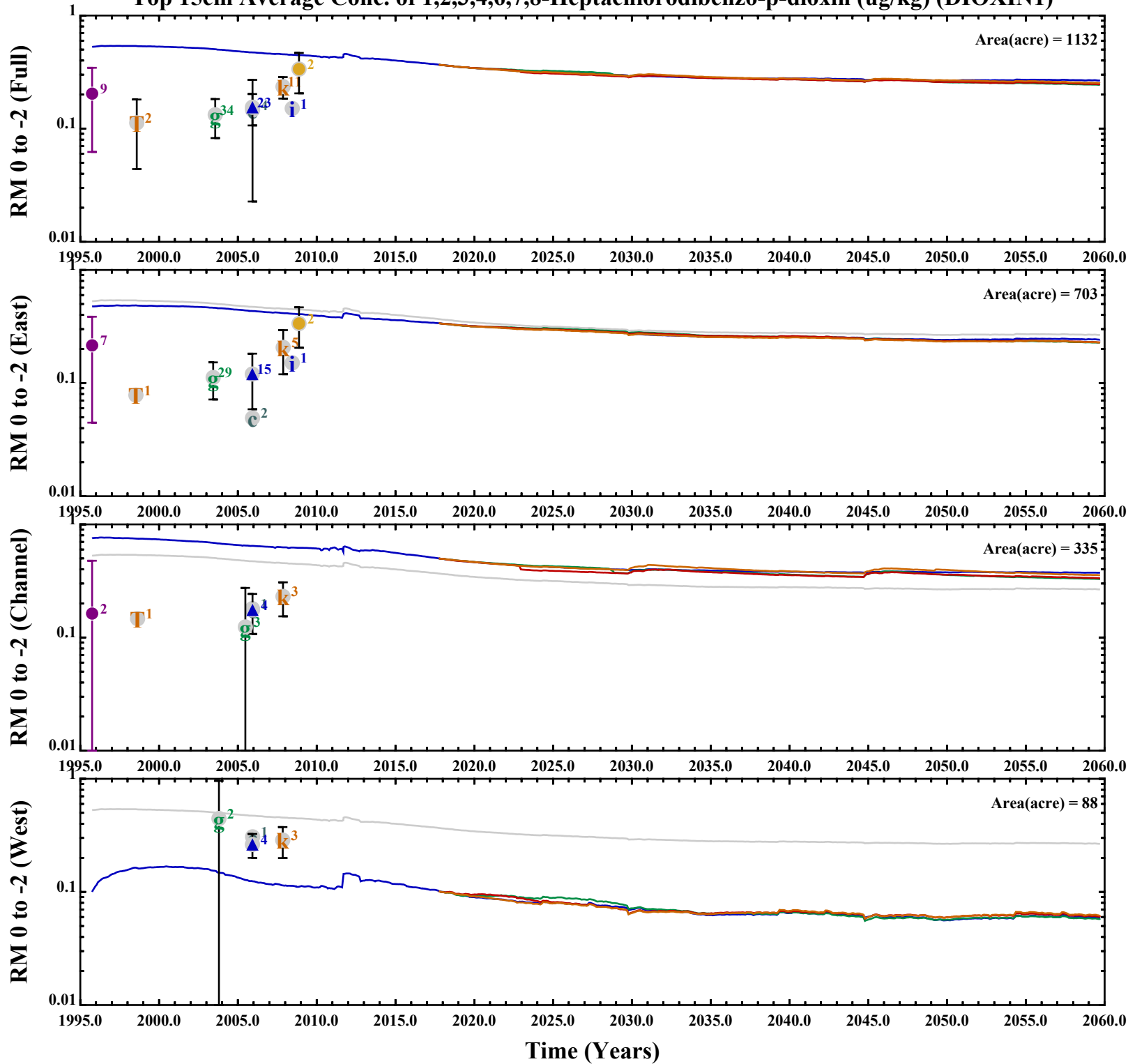
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

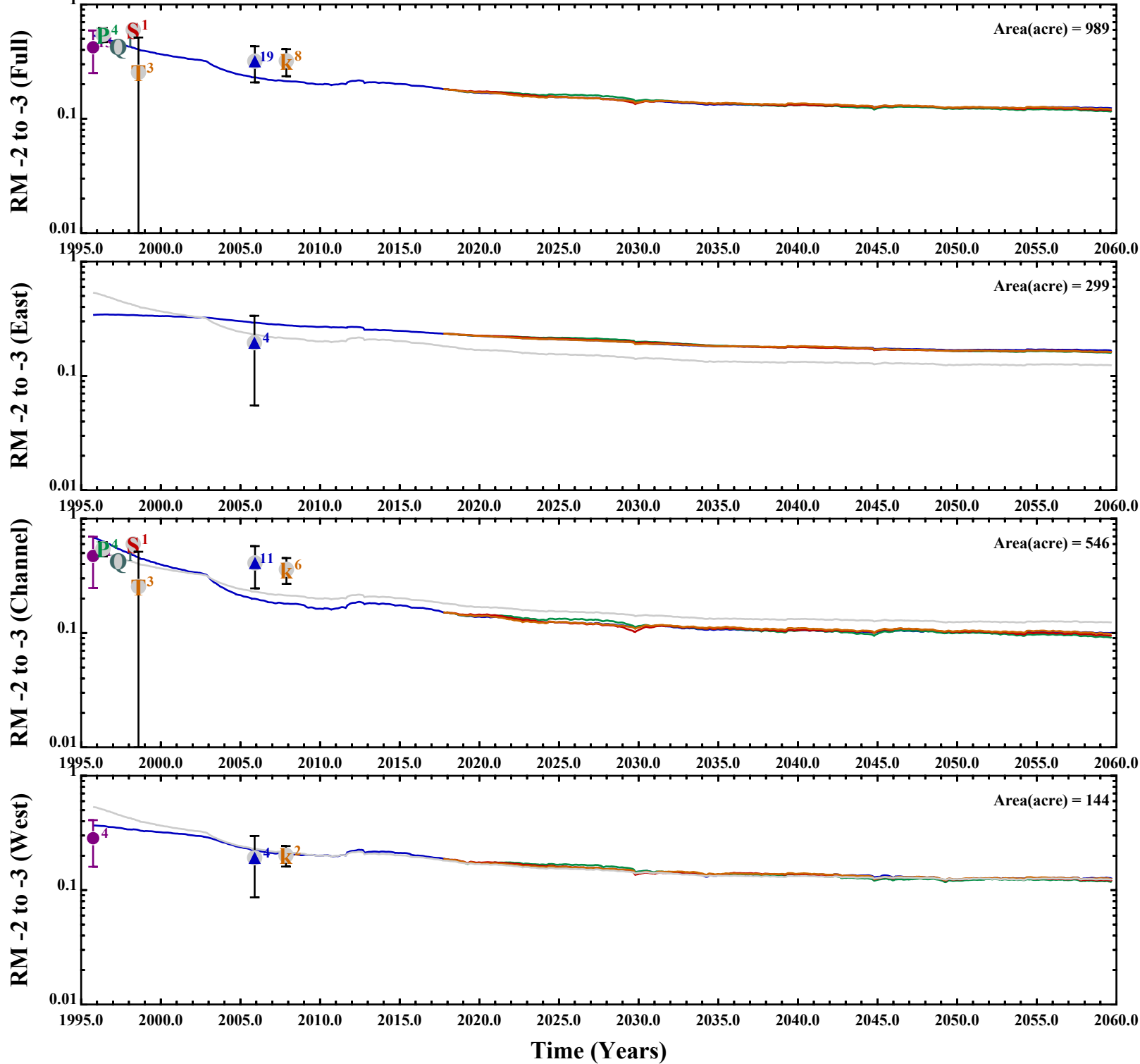
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

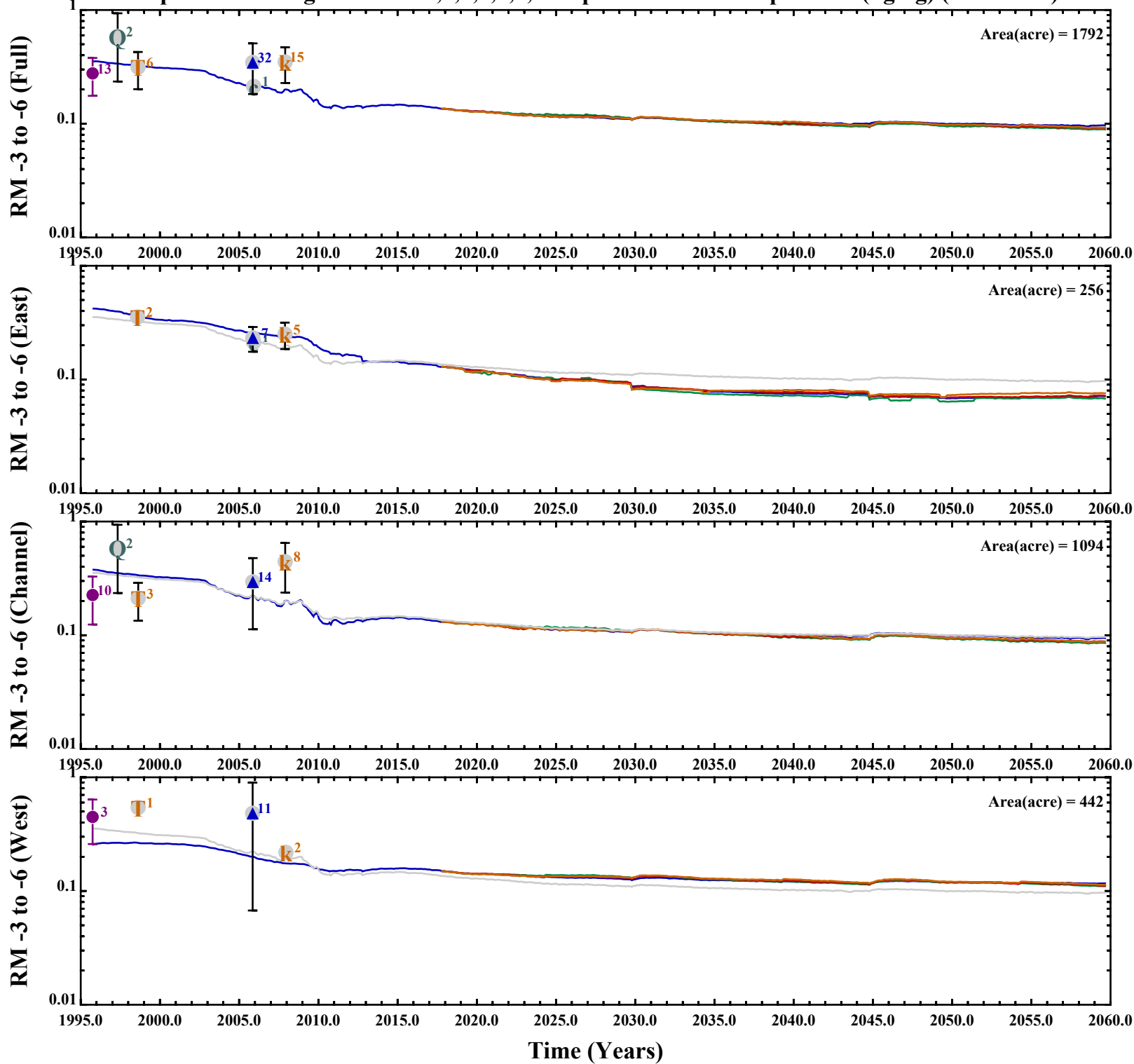
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

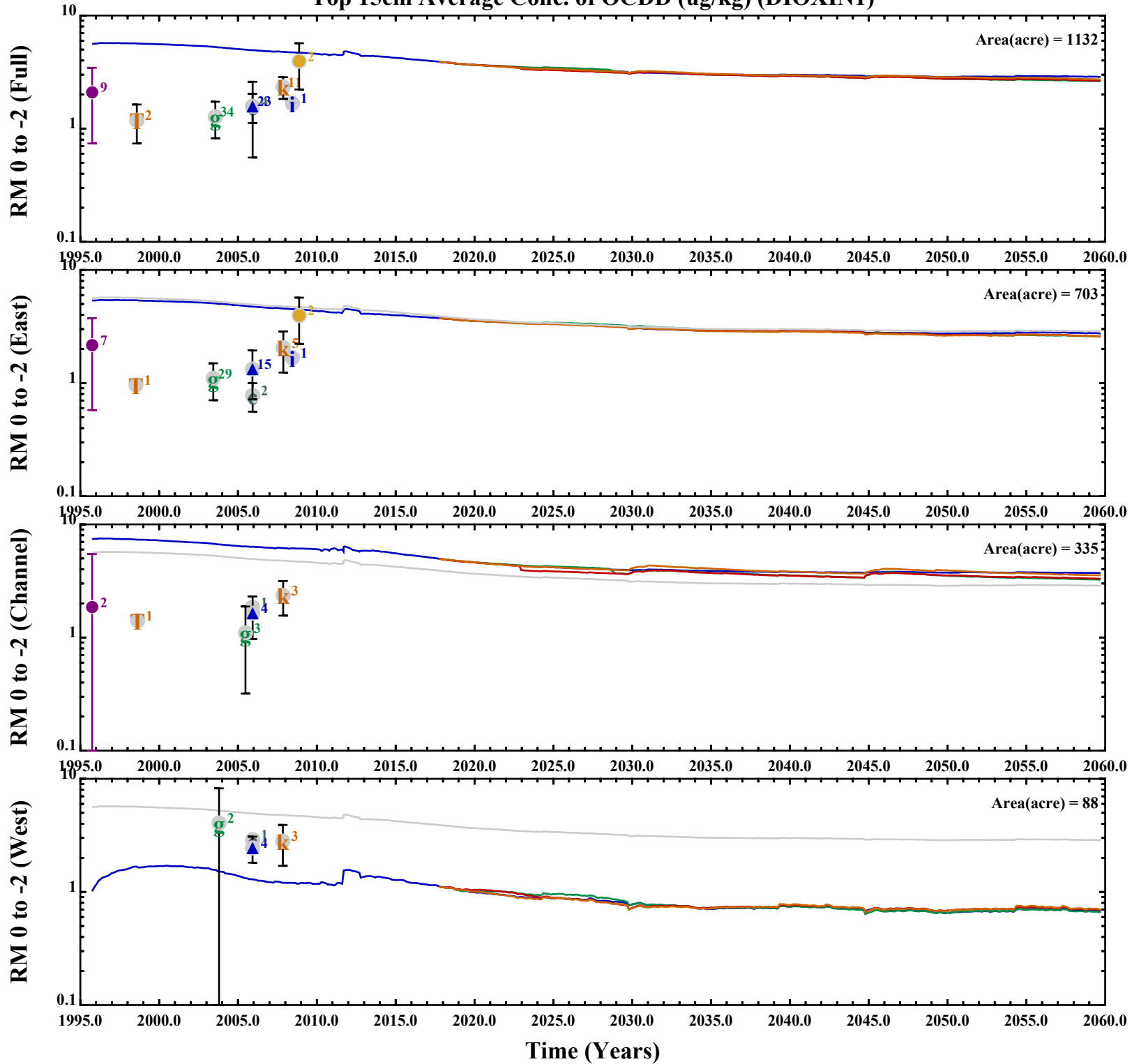
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

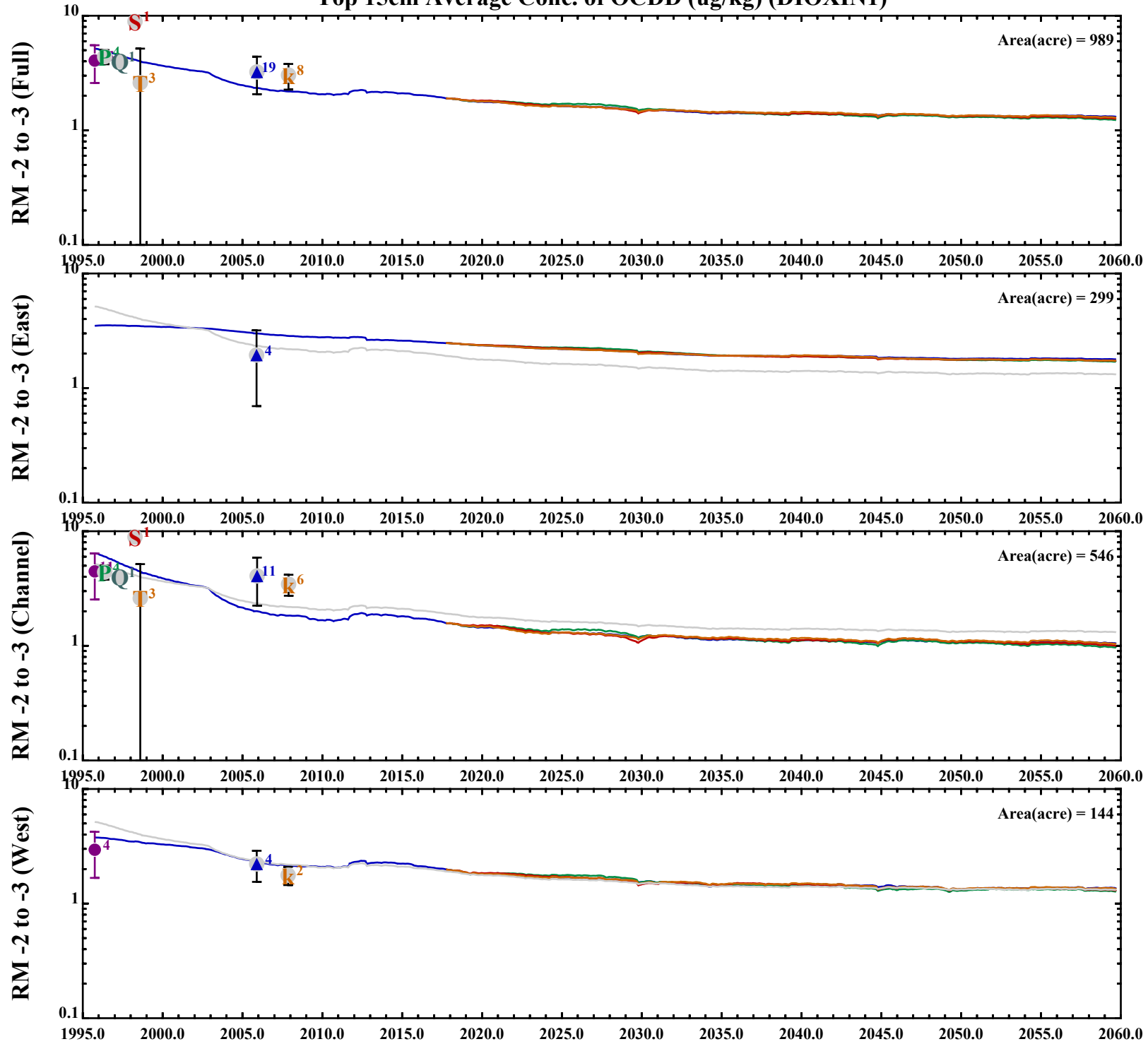


## Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)



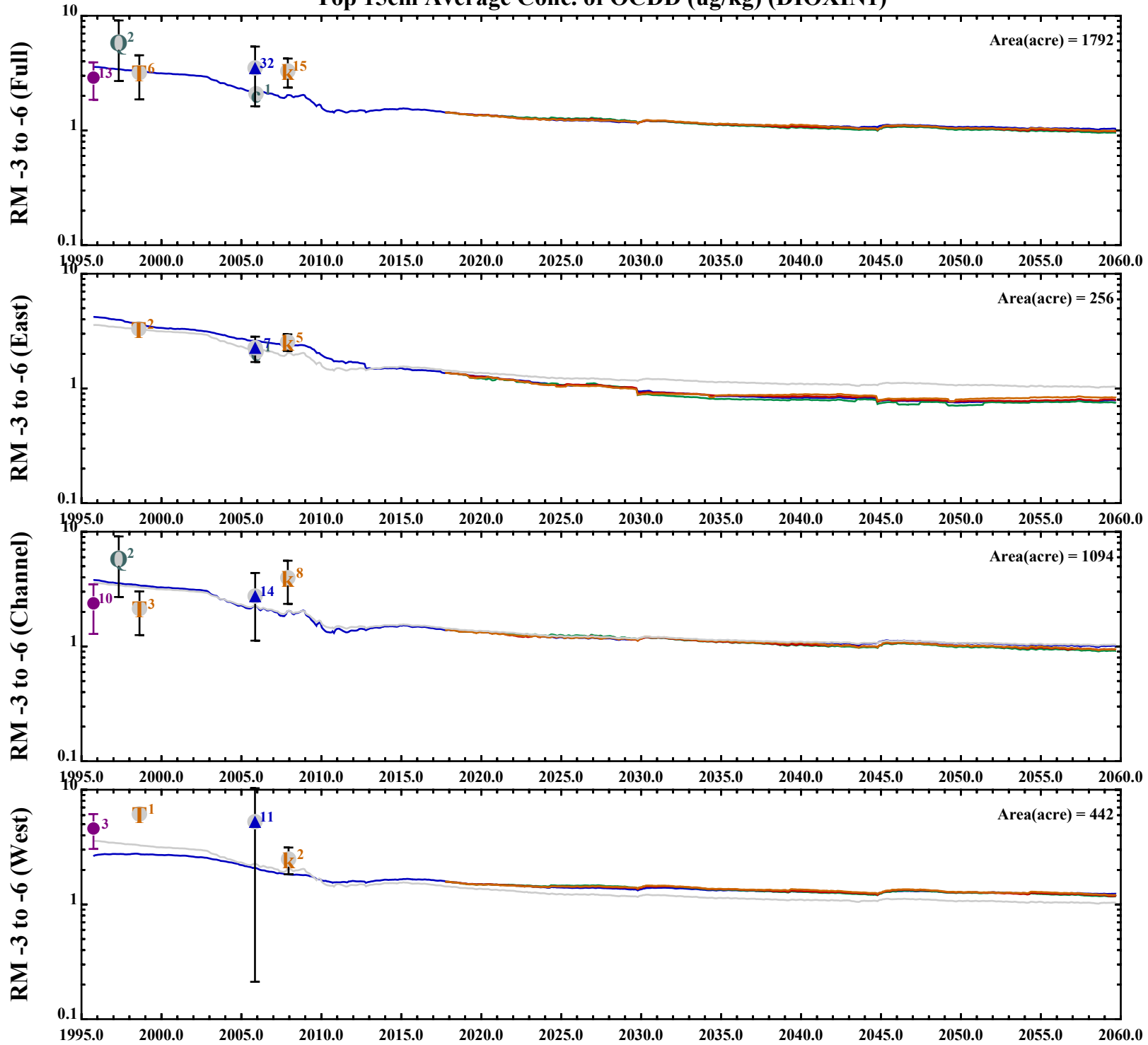
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  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)



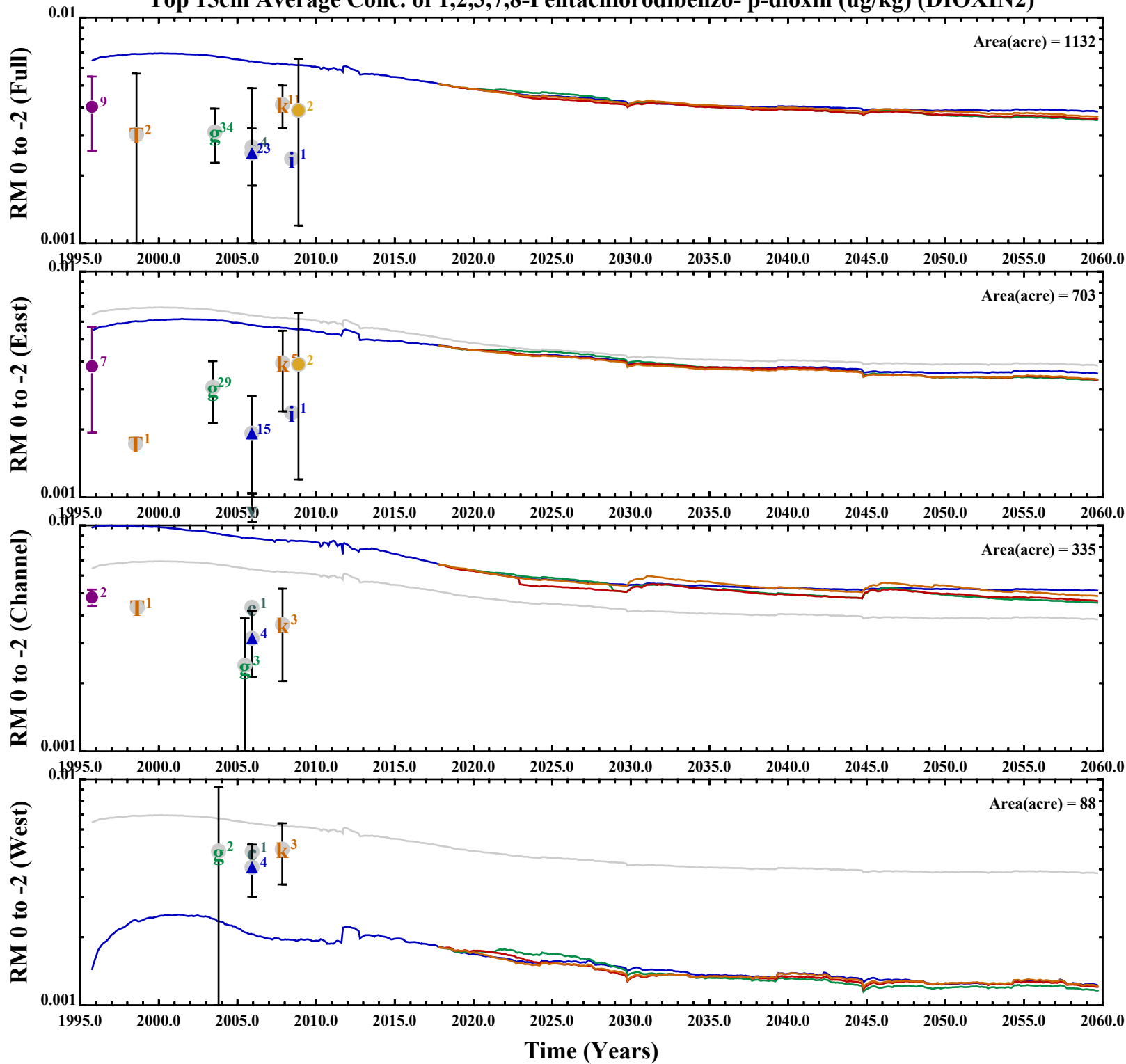
- Data used for ICs
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  - C 1991 Core Sediment Investigation
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)



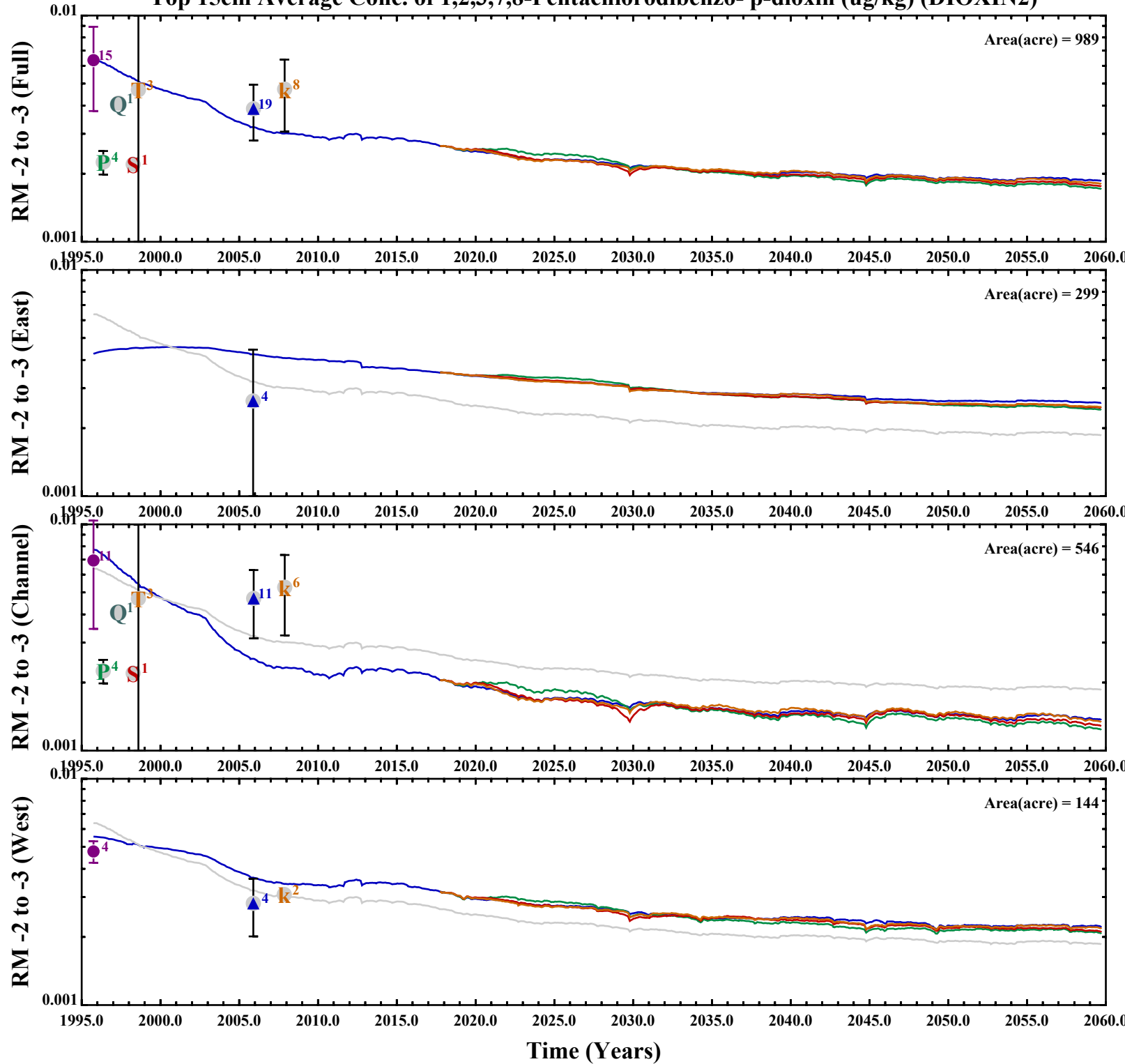
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - 1999 Prelim Toxicity Identification Eval
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  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
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  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



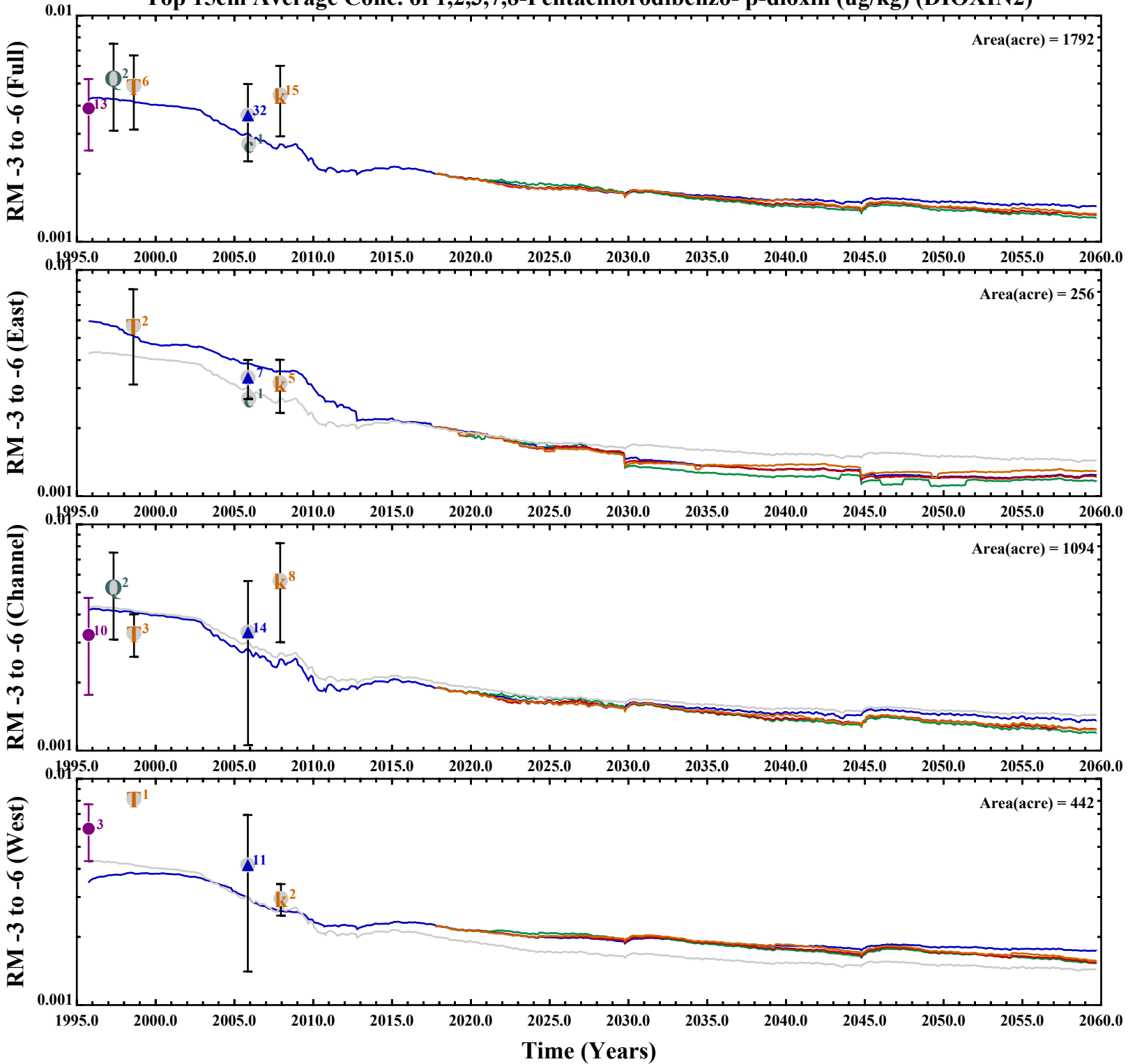
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - f 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



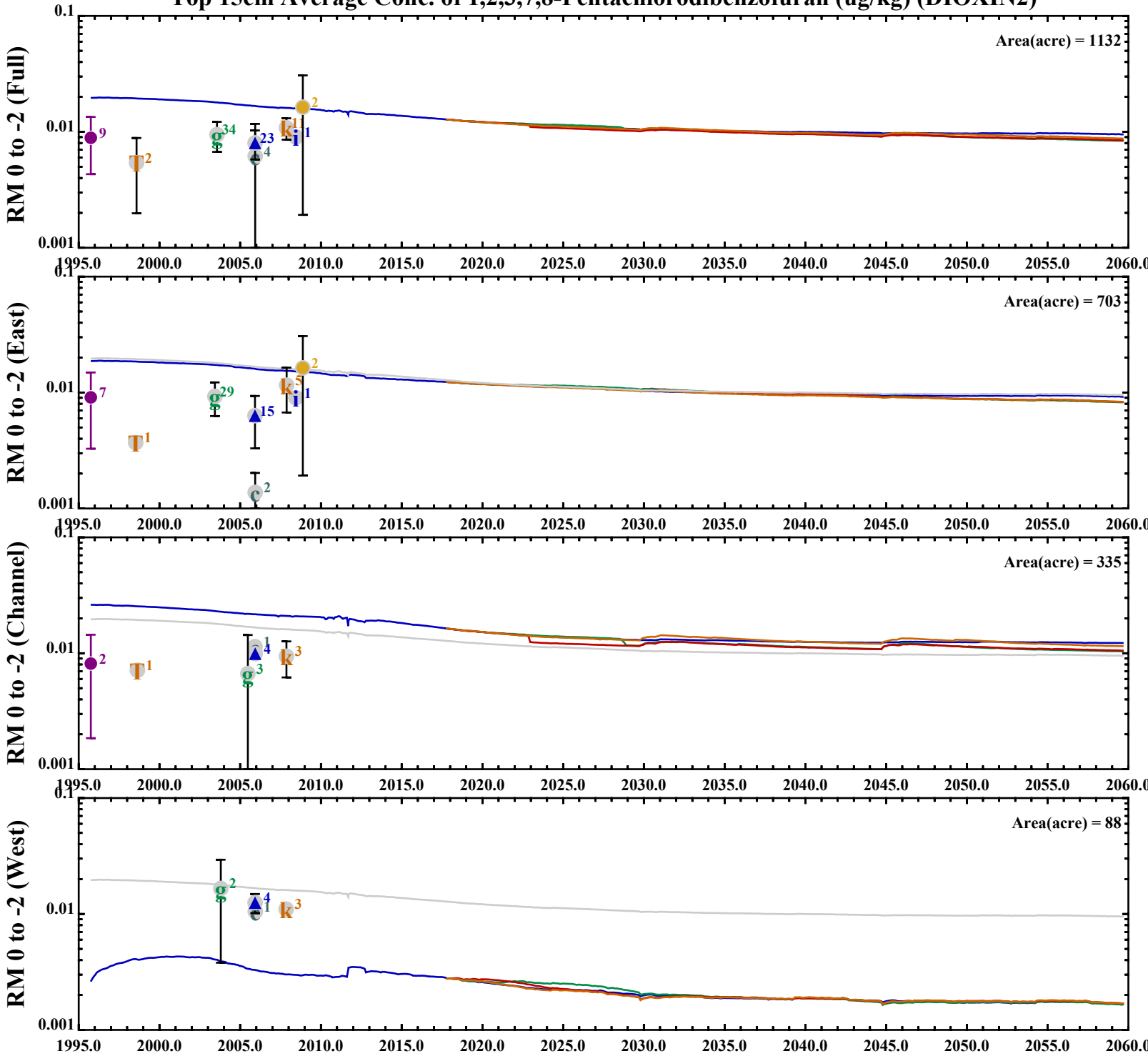
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
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  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



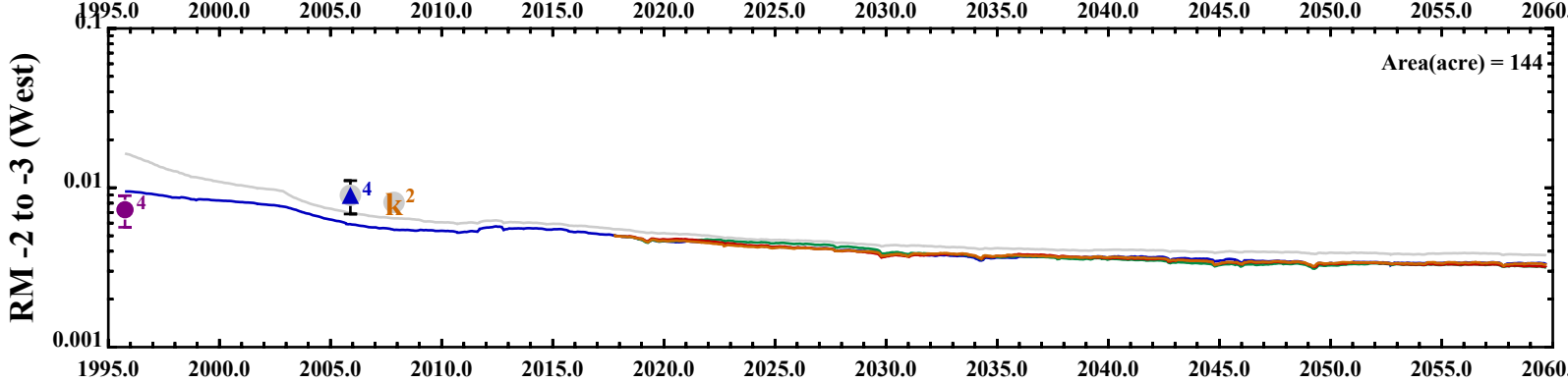
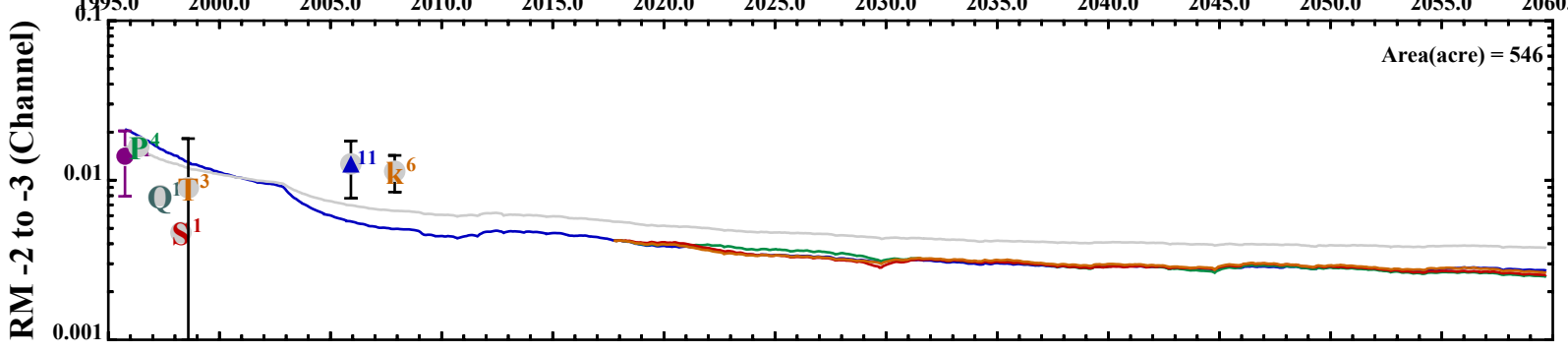
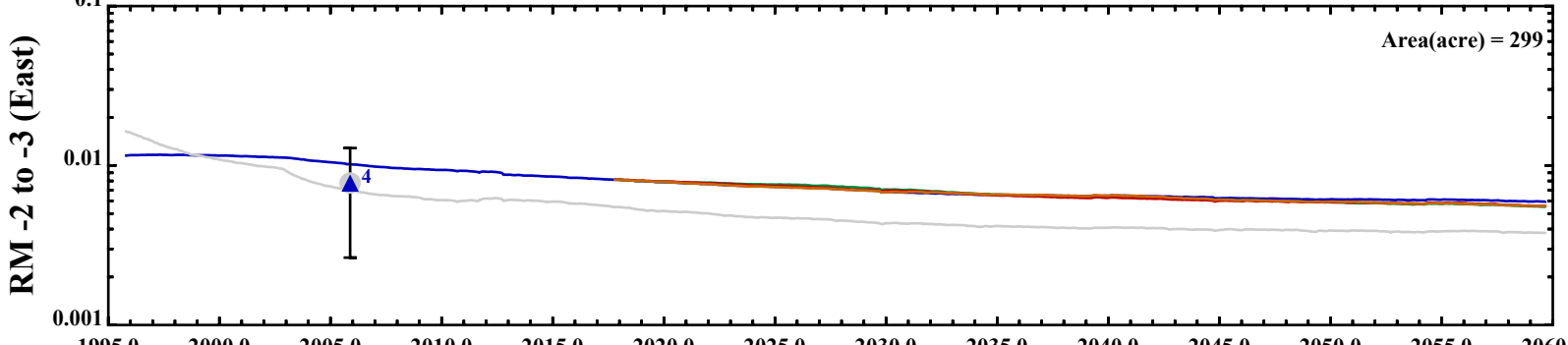
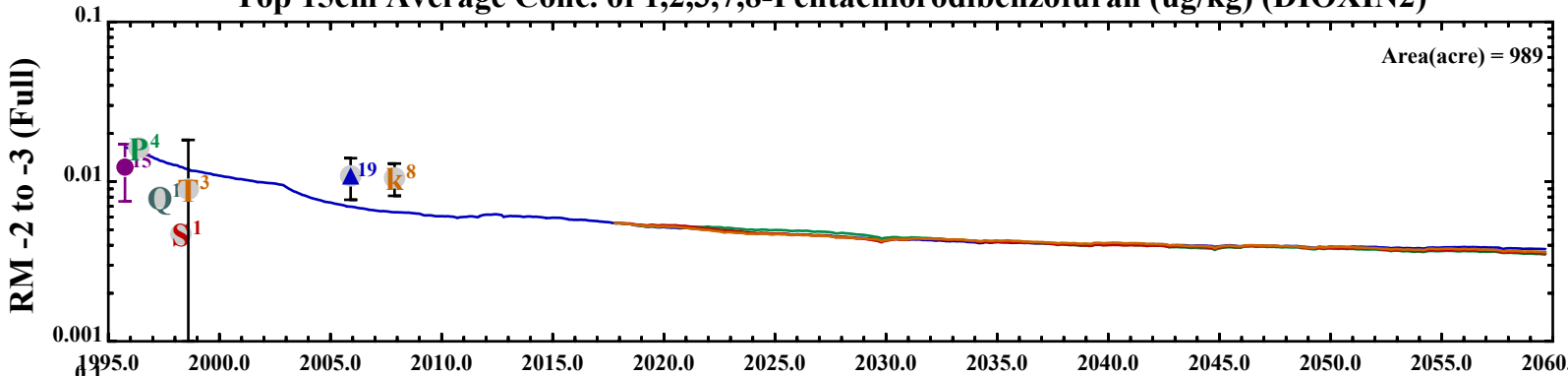
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  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
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  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

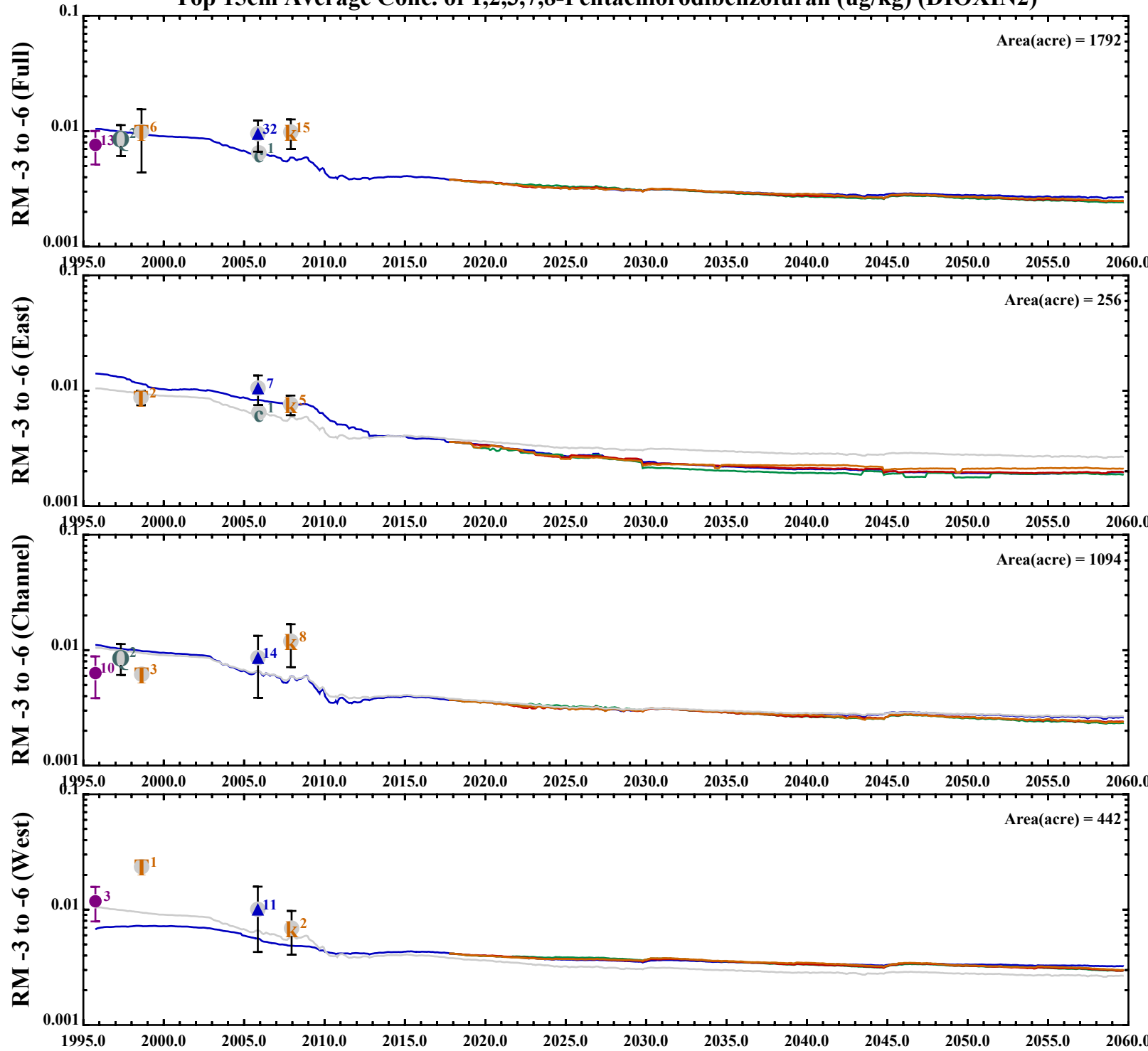


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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
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  - 1999/2000 Minish Park Monitoring Program
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  - 2005 MPI - Newark Bay Phase I Oversight
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  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
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  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

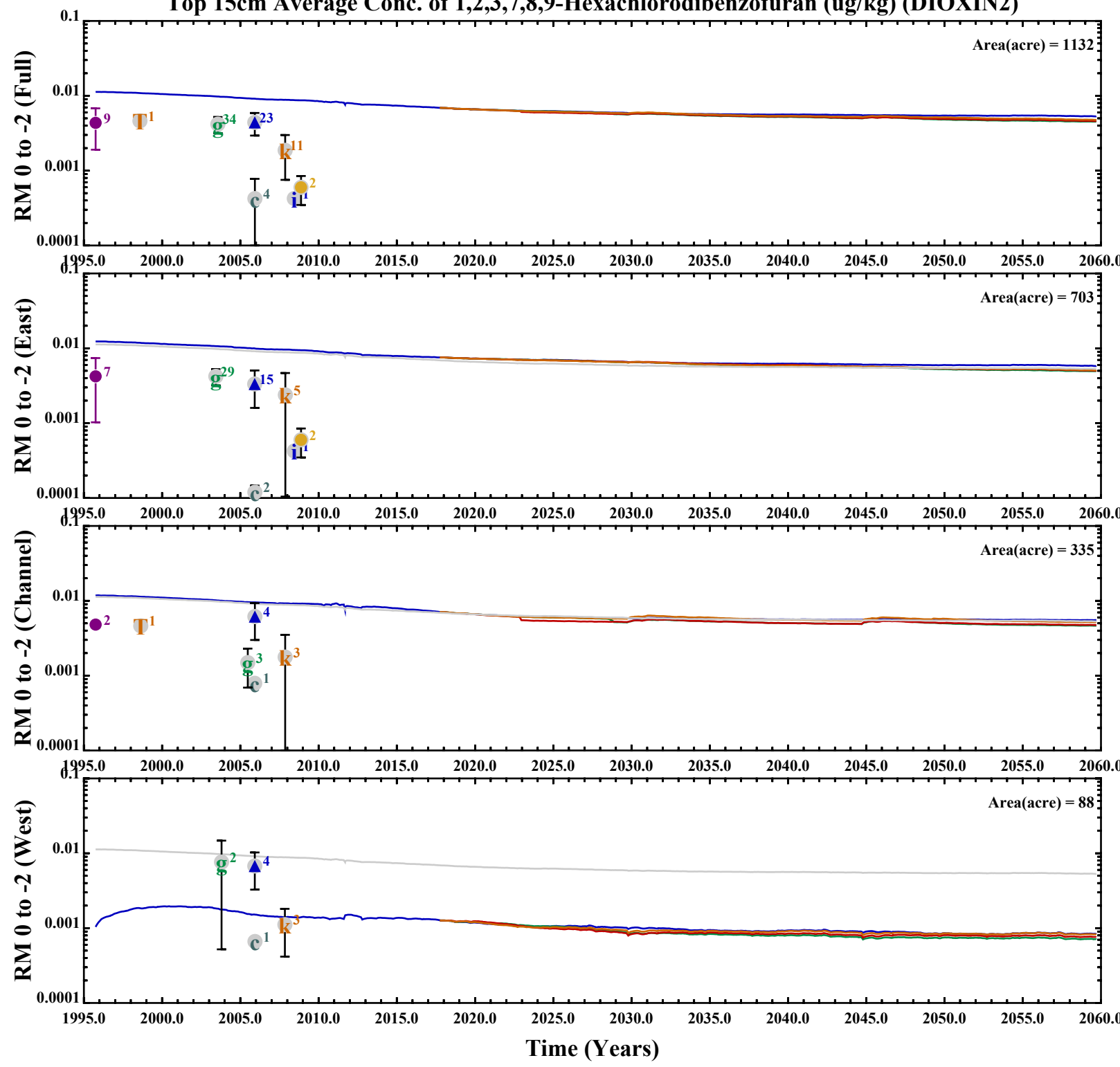


# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



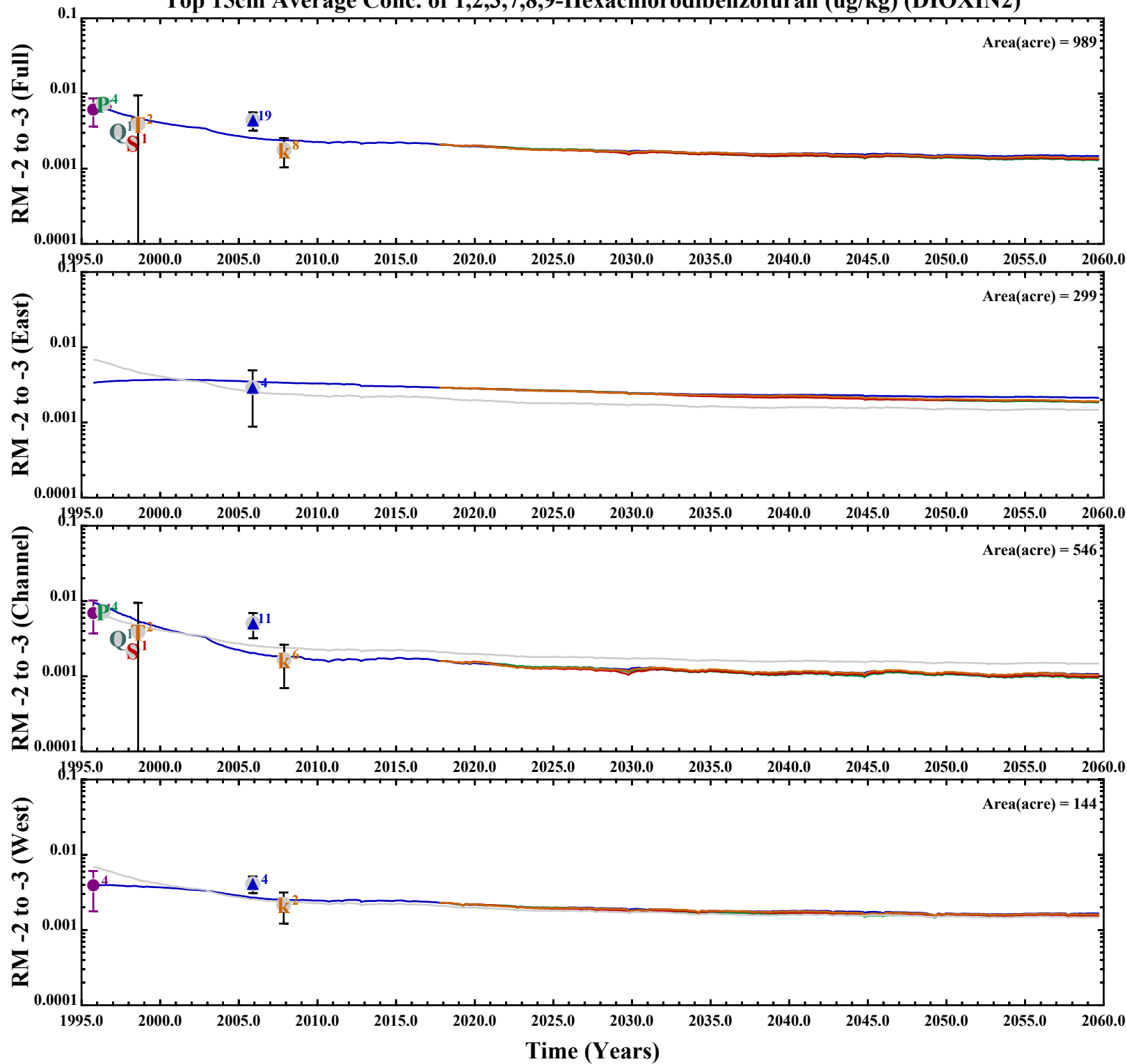
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  - 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
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  - 2007 USEPA-MPI-EMBM Sediment Samples
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  - 2008 CPG Low Resolution Sediment Coring
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  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
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  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

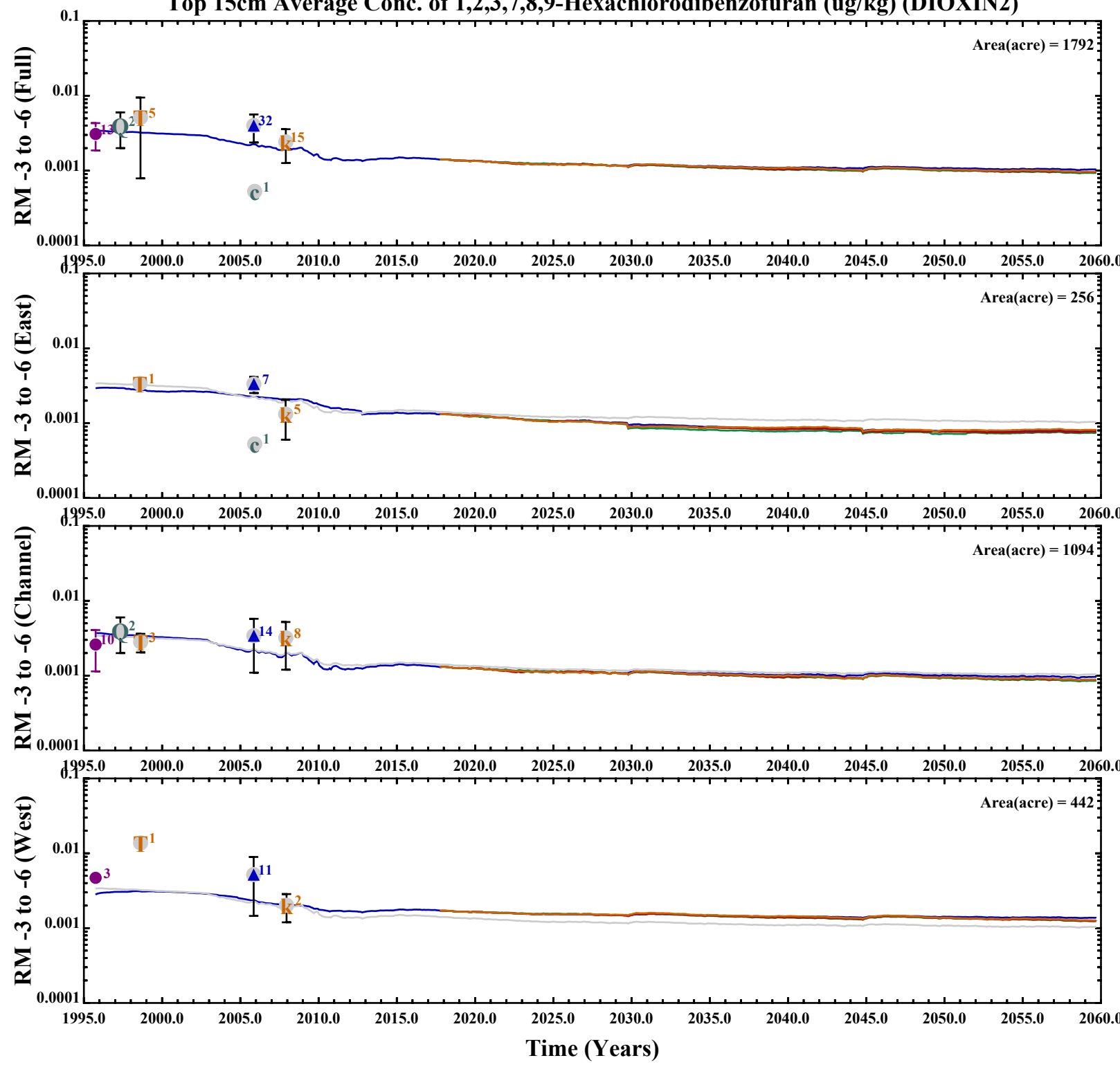
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

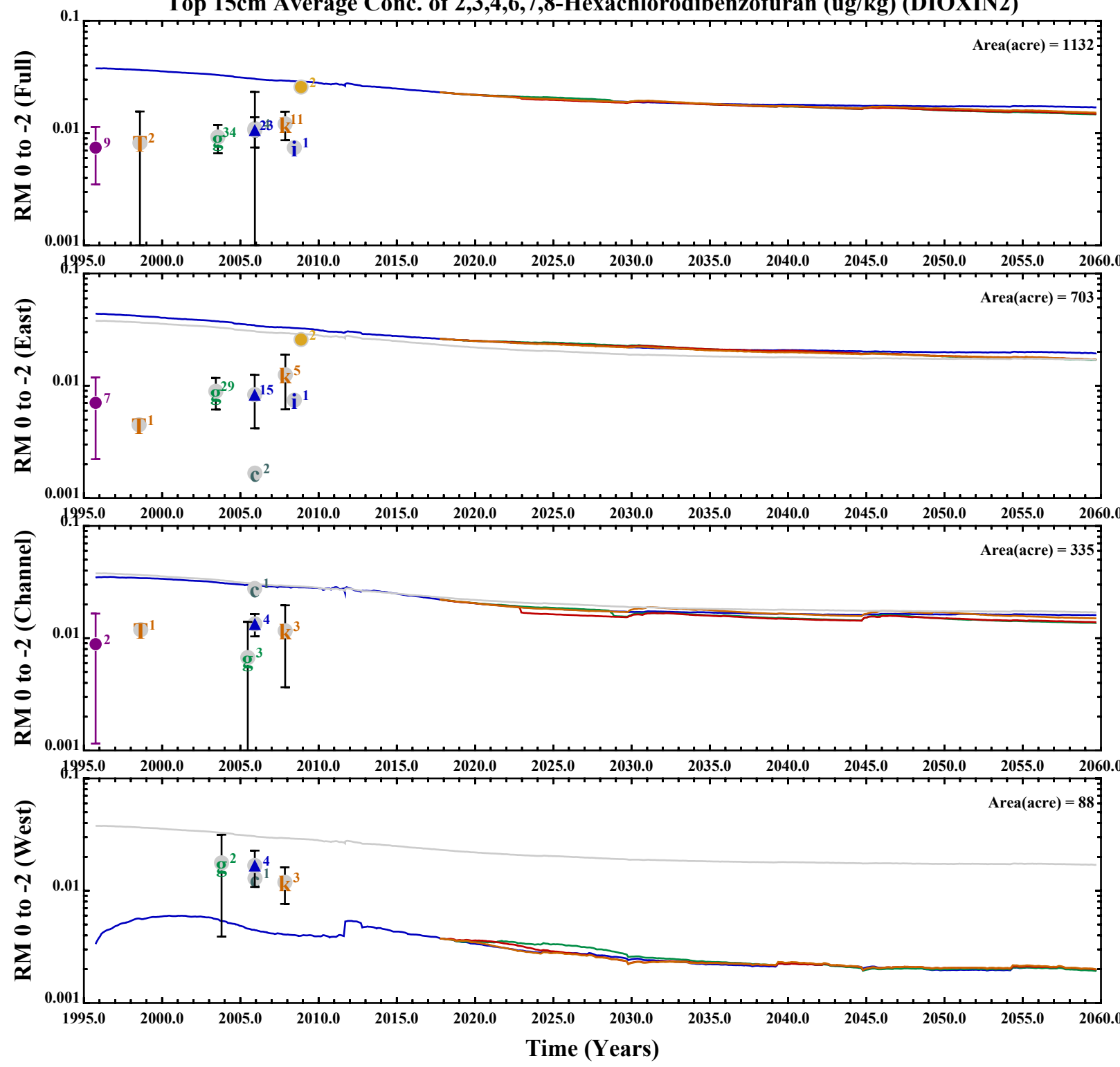
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



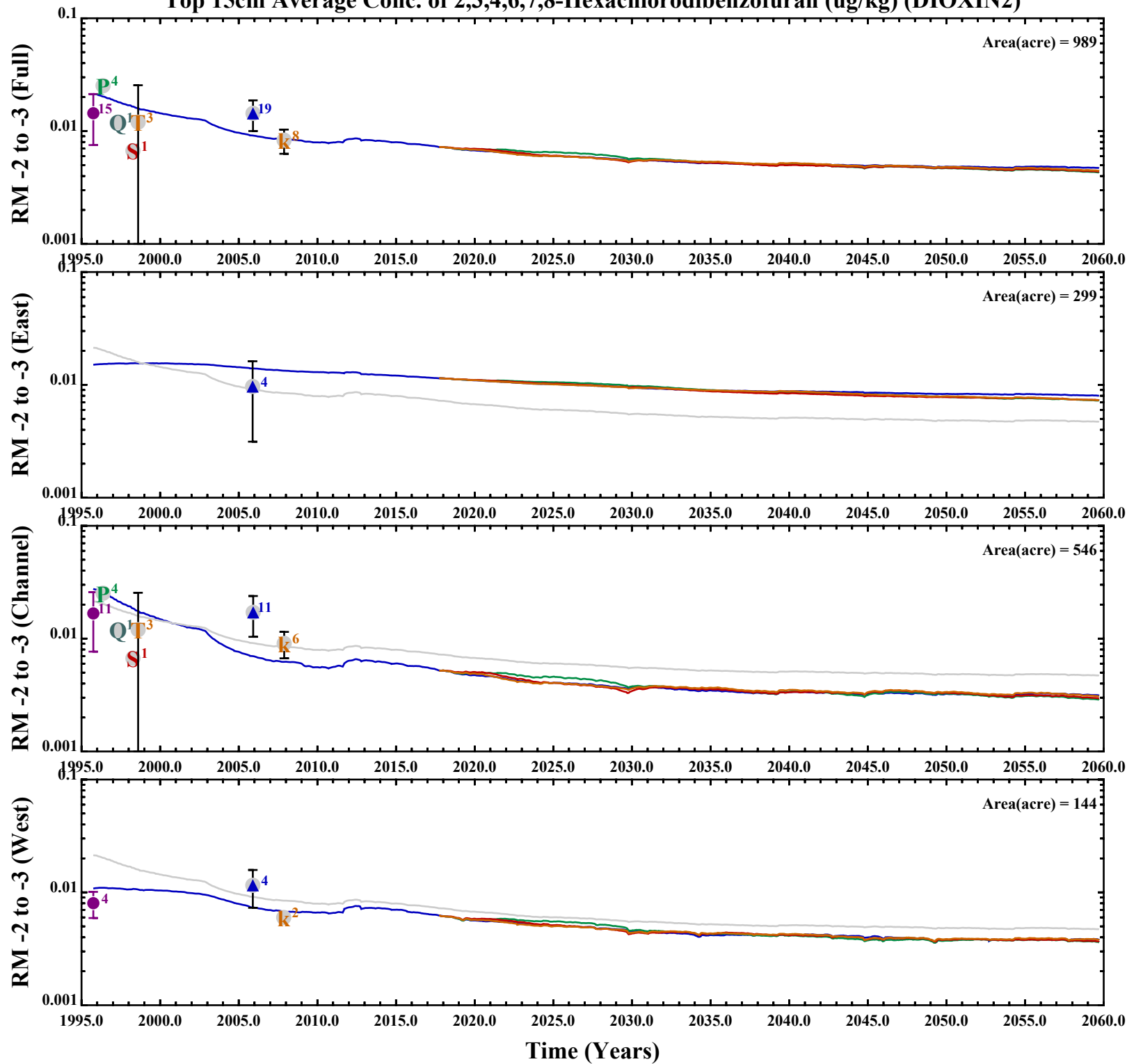
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

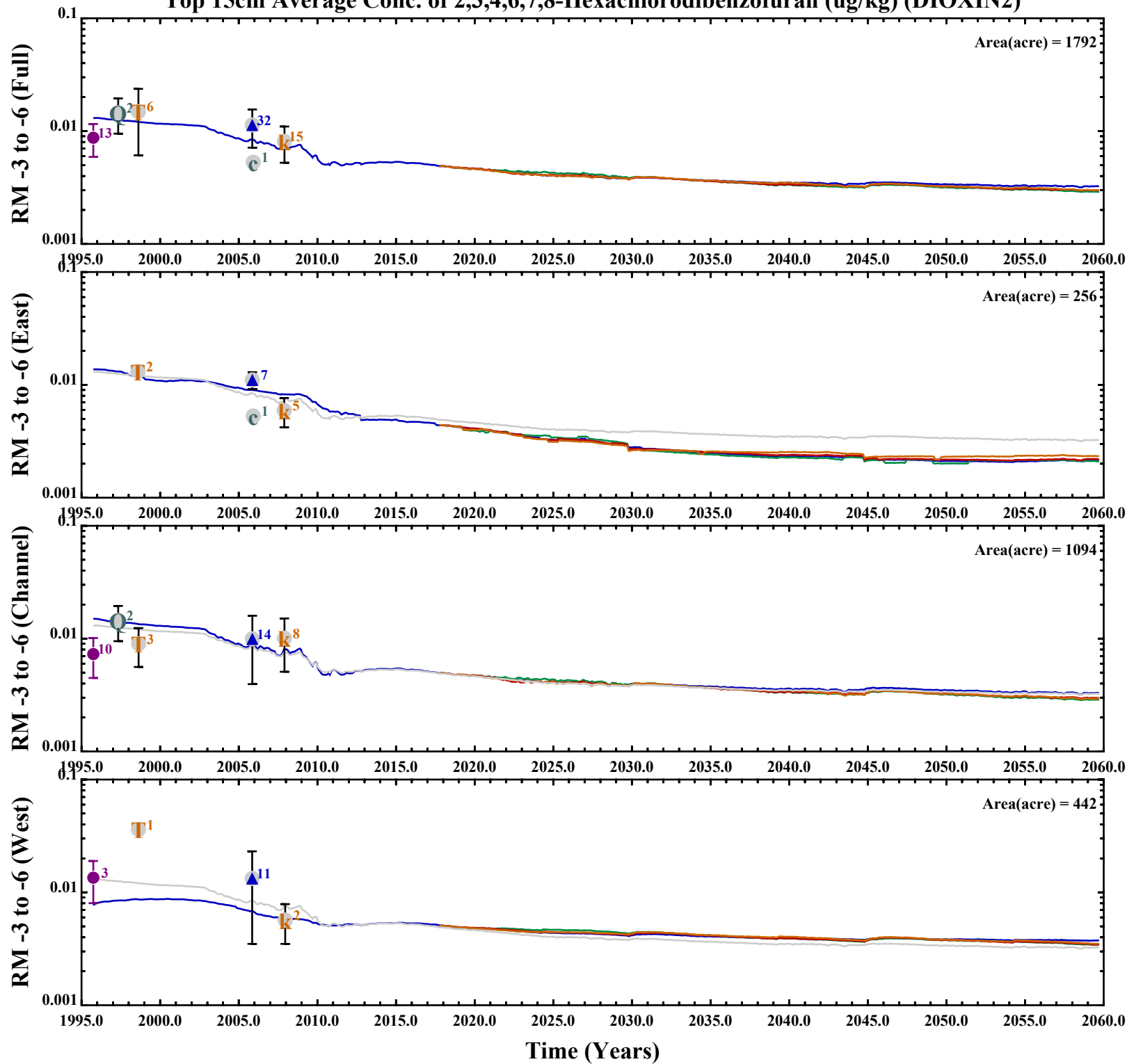


- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



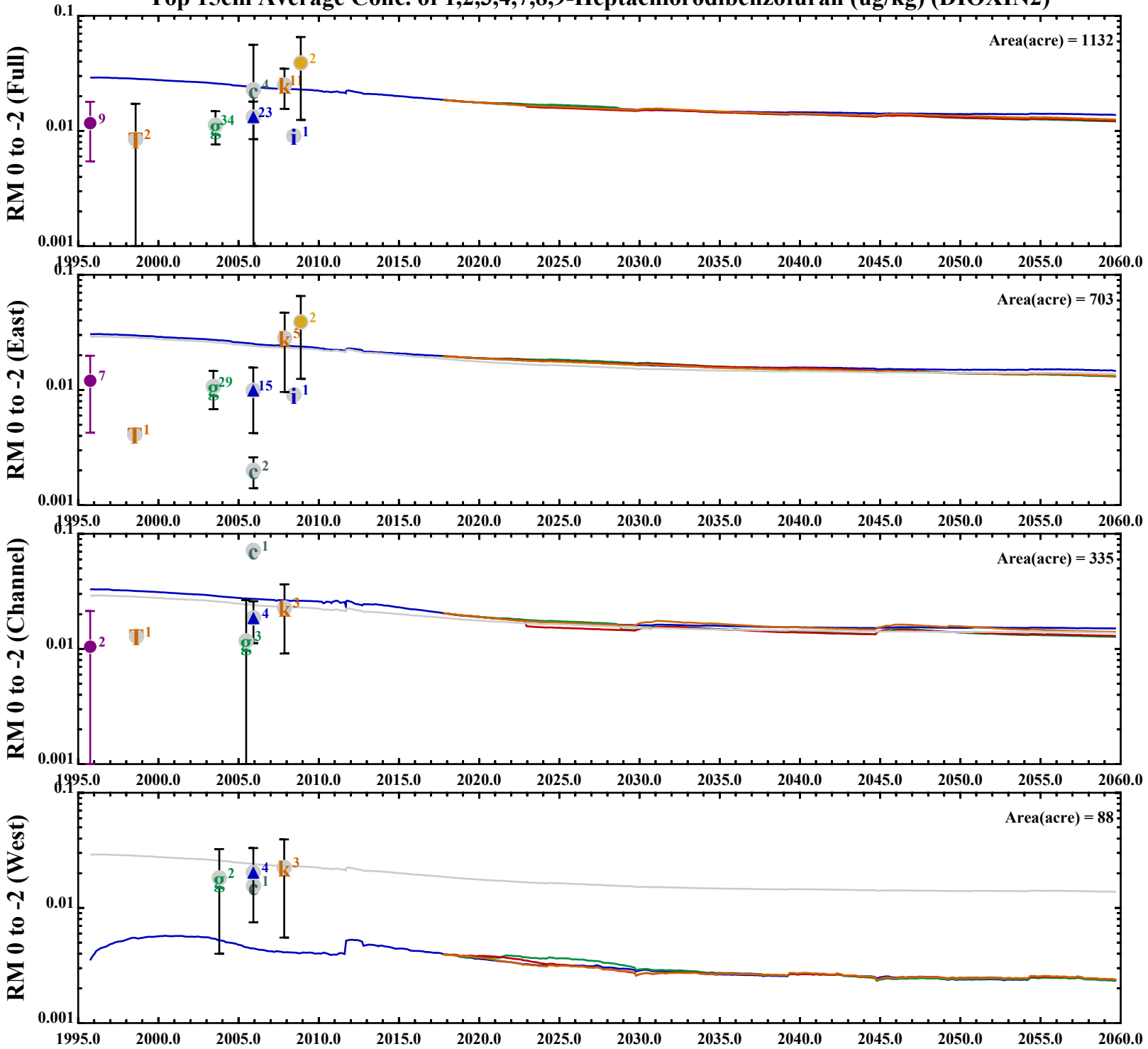
# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
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- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
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- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

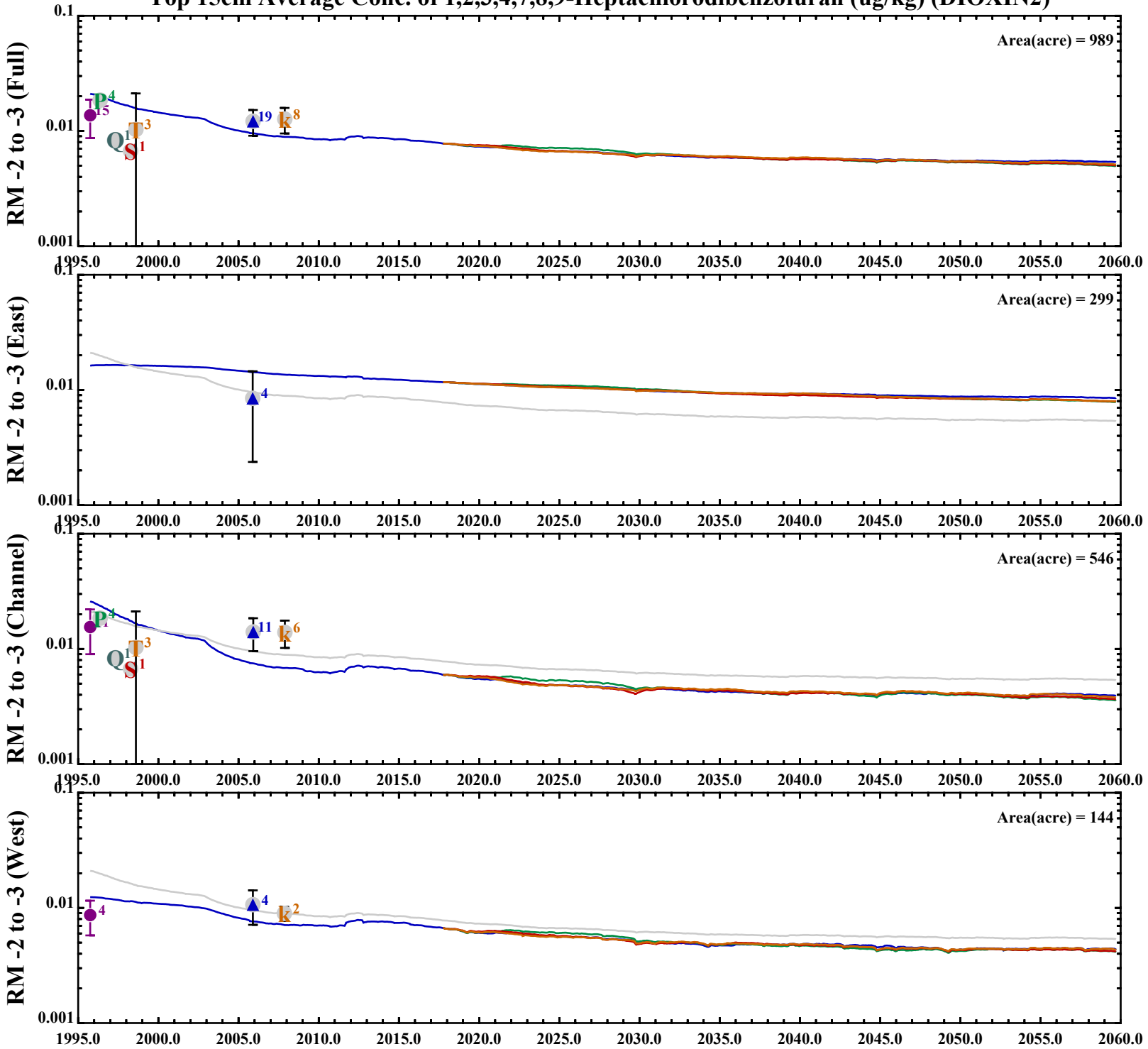
# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



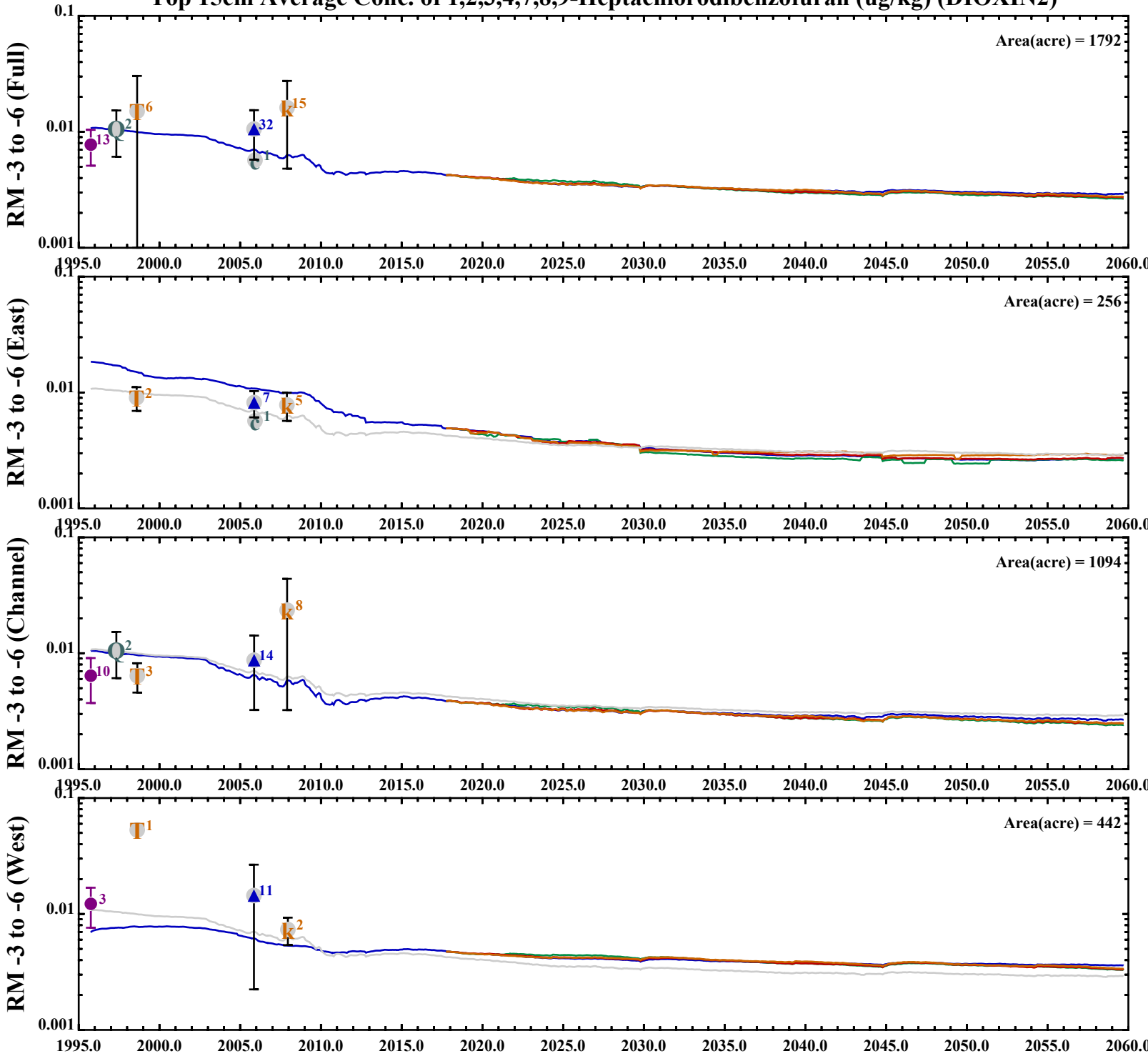
# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

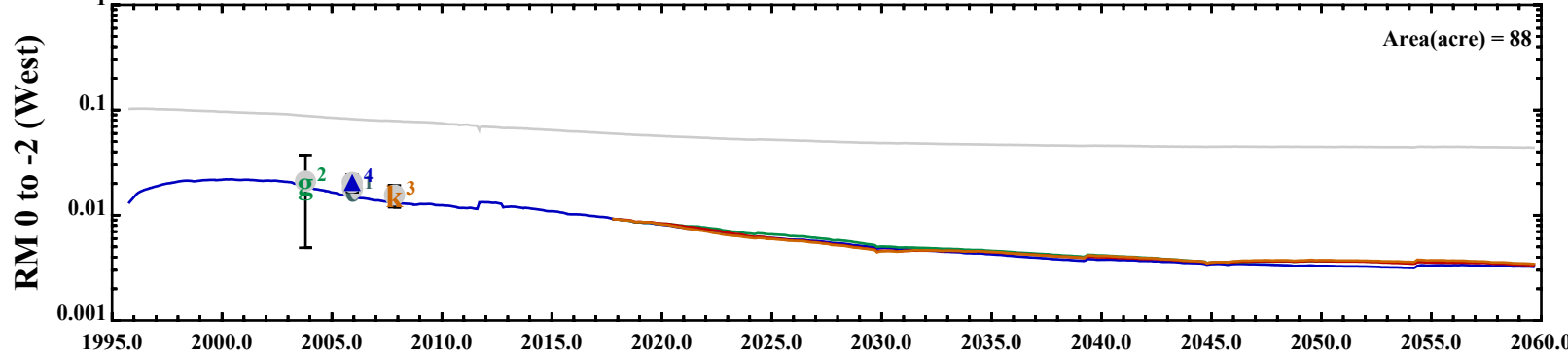
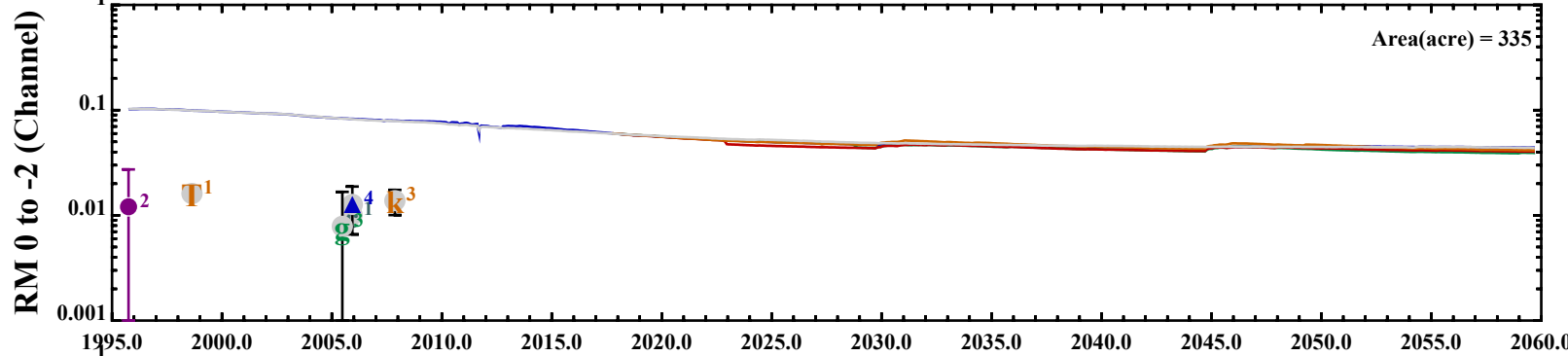
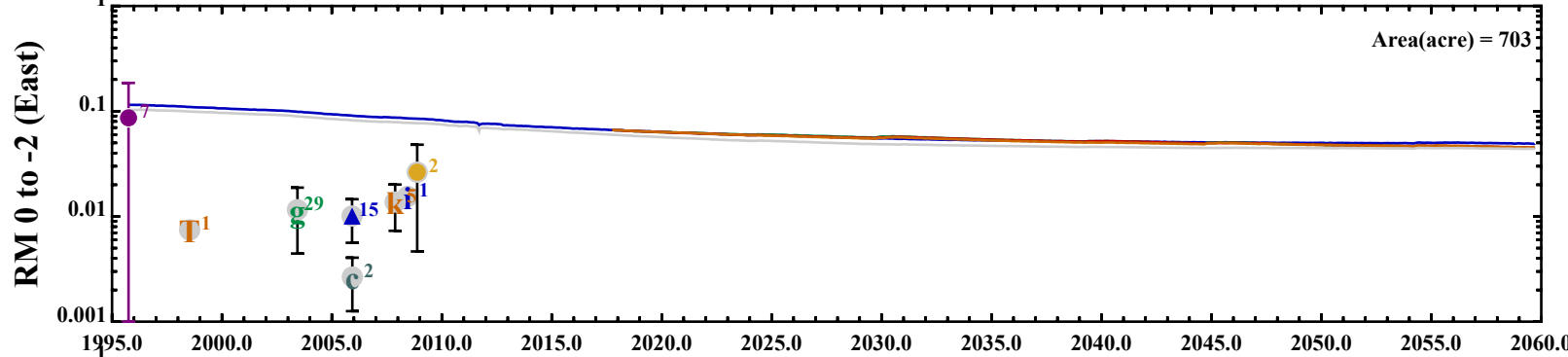
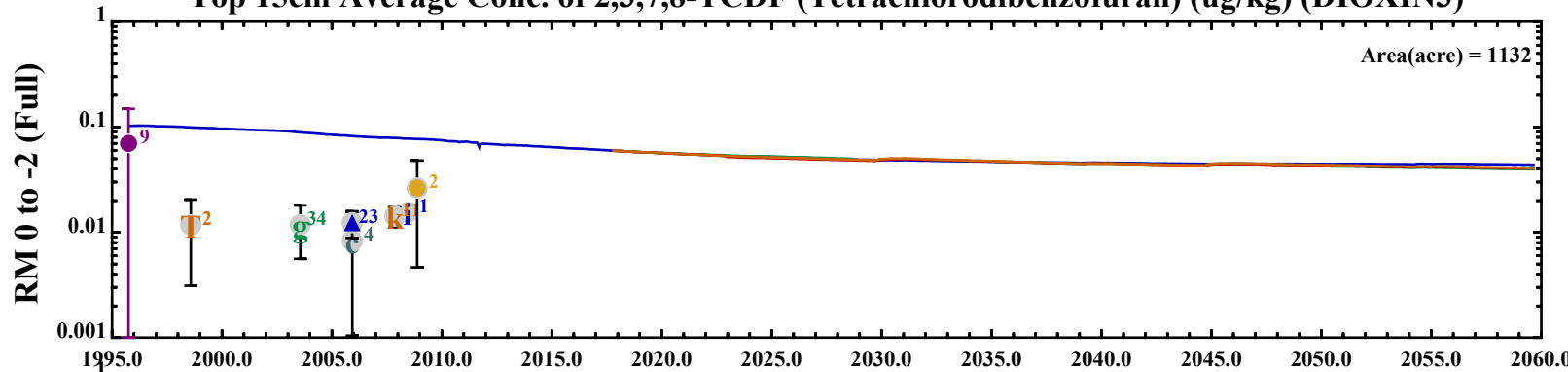


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

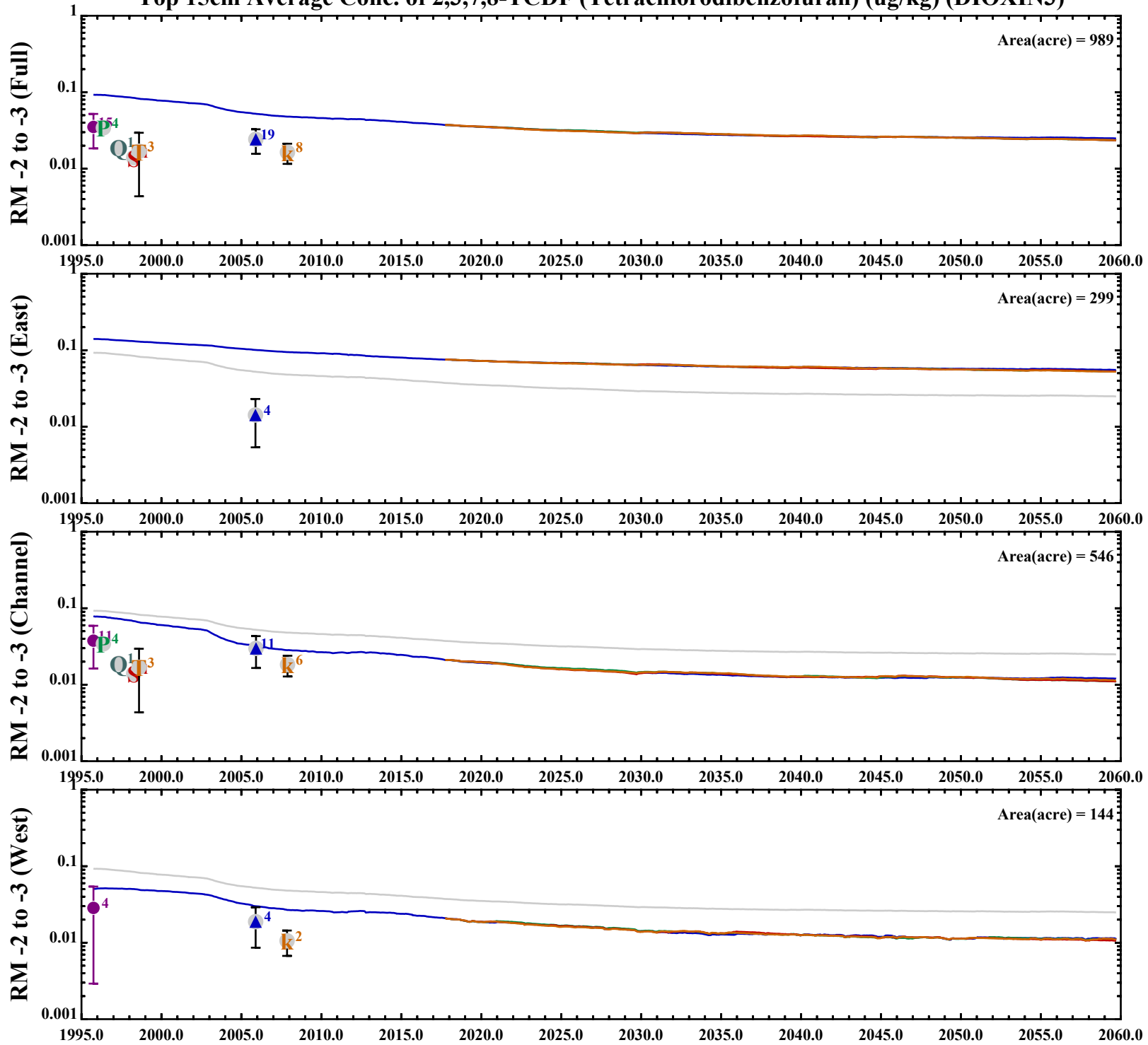
# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

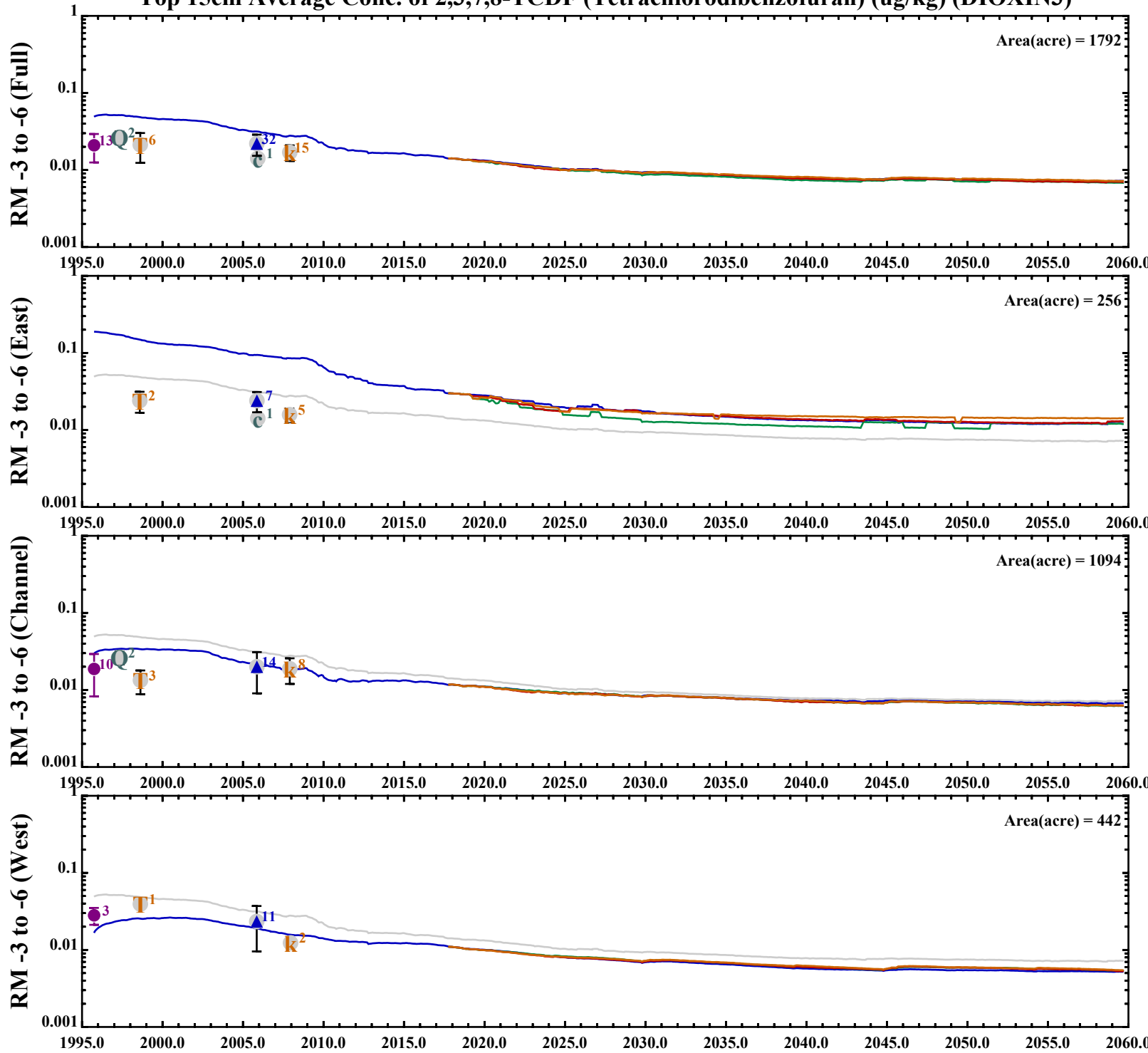
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
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  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

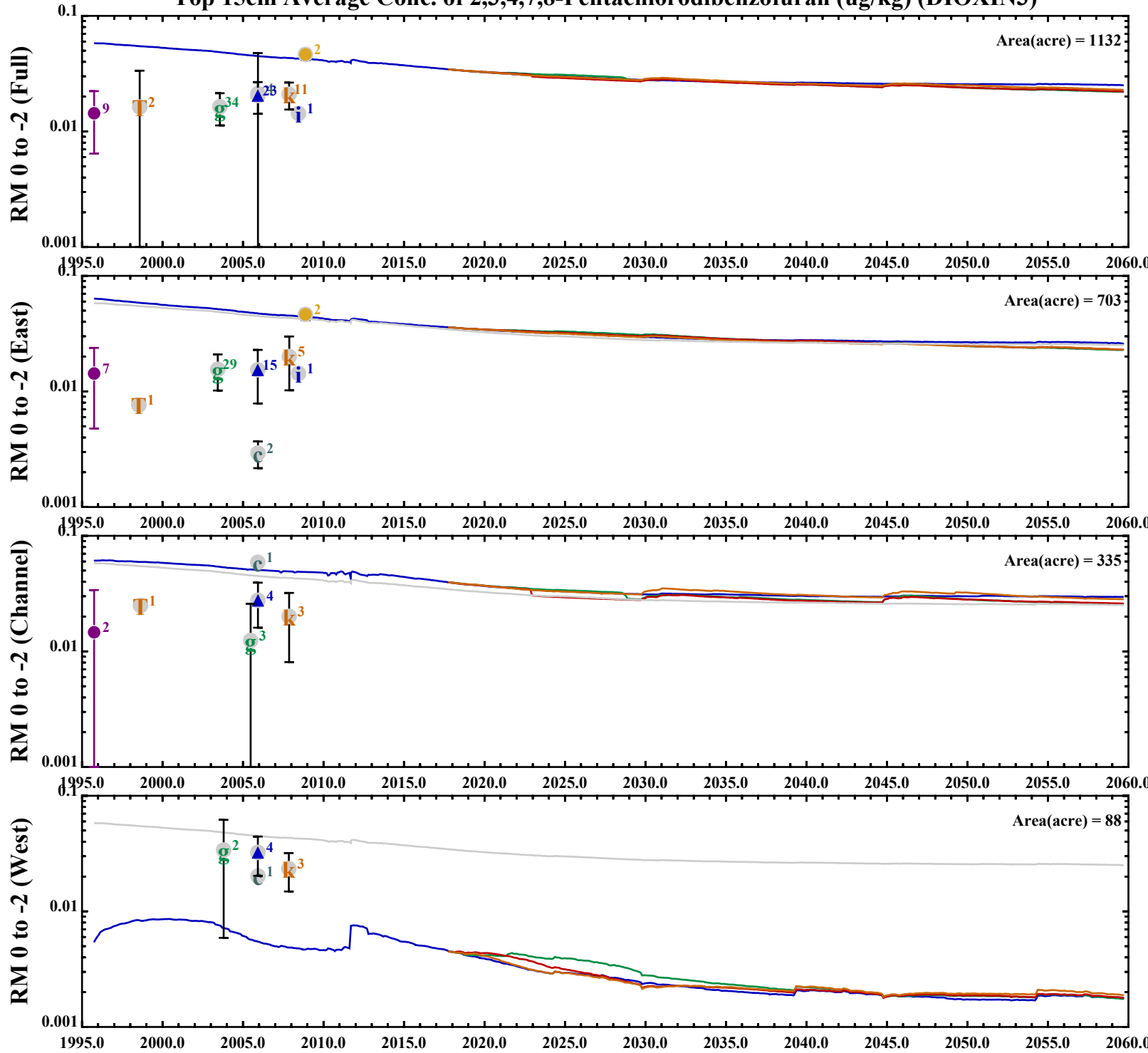
# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
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- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

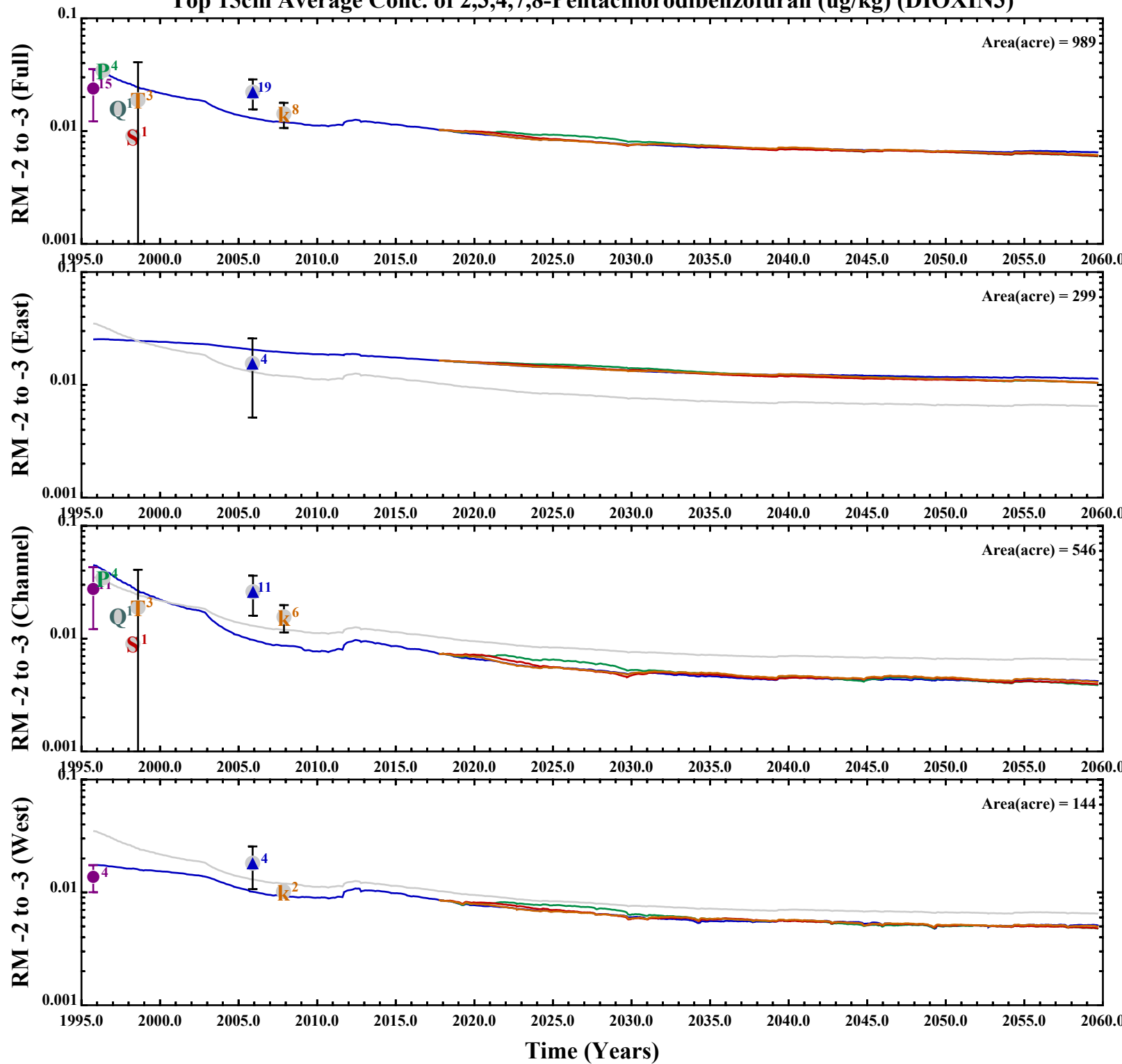
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

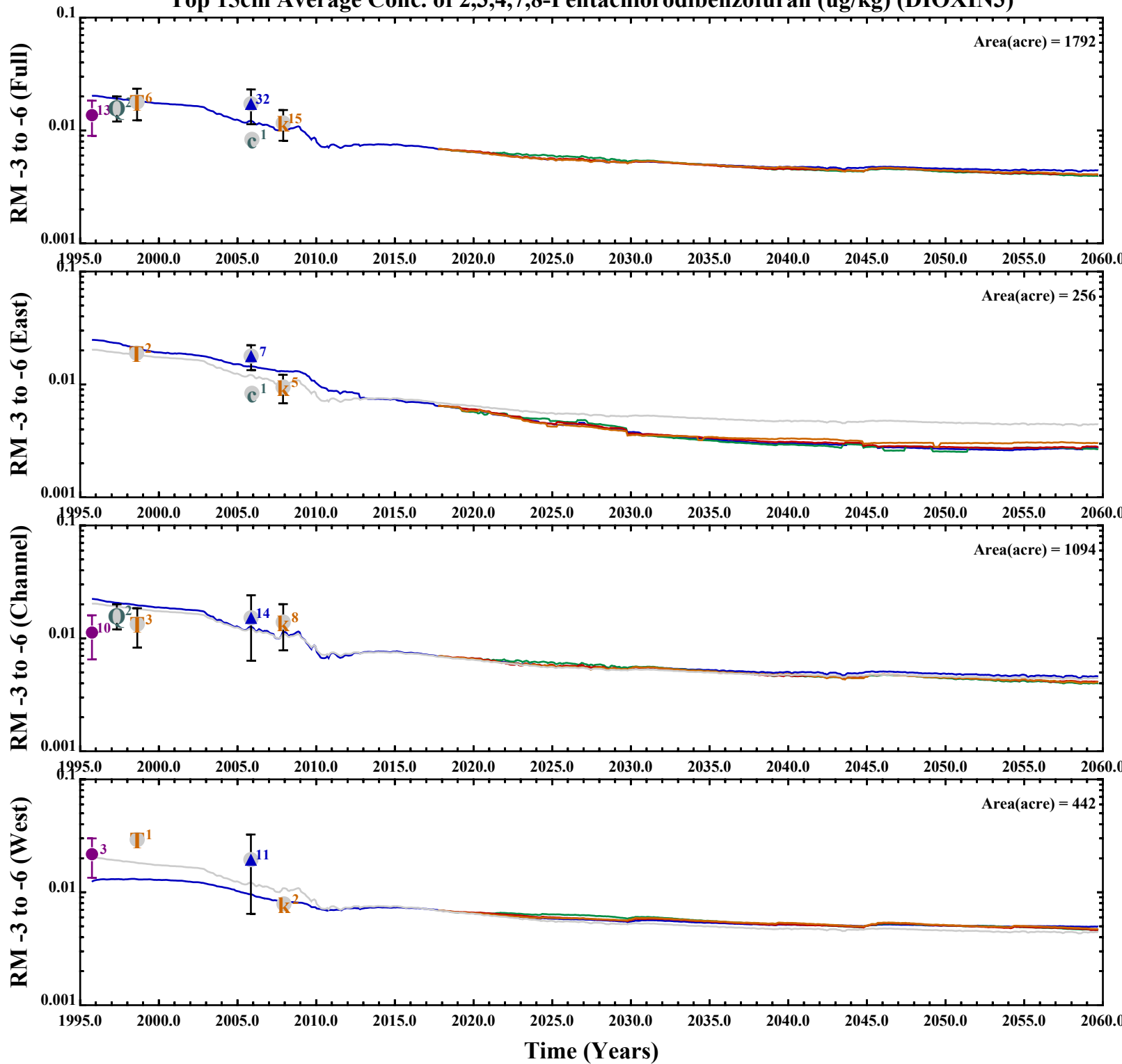


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990-92 EPA EMAP
  - 1991 Core Sediment Investigation
  - 1991-92 NOAA NS&T Hudson-Raritan Phase I
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993 NOAA NS&T Hudson-Raritan Phase II
  - 1993 REMAP
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - 1998 REMAP
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



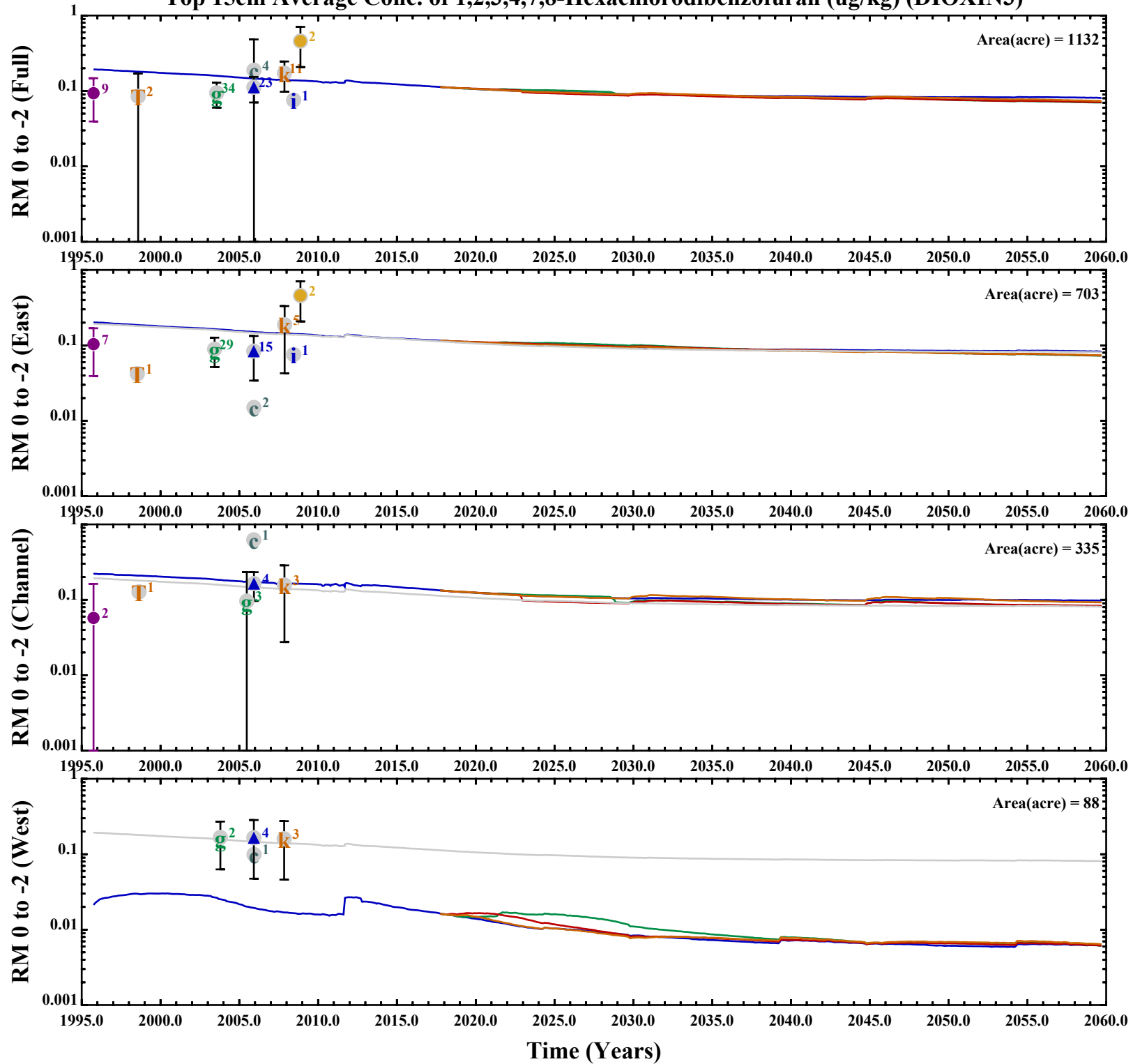
Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
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  - C 1991 Core Sediment Investigation
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
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  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

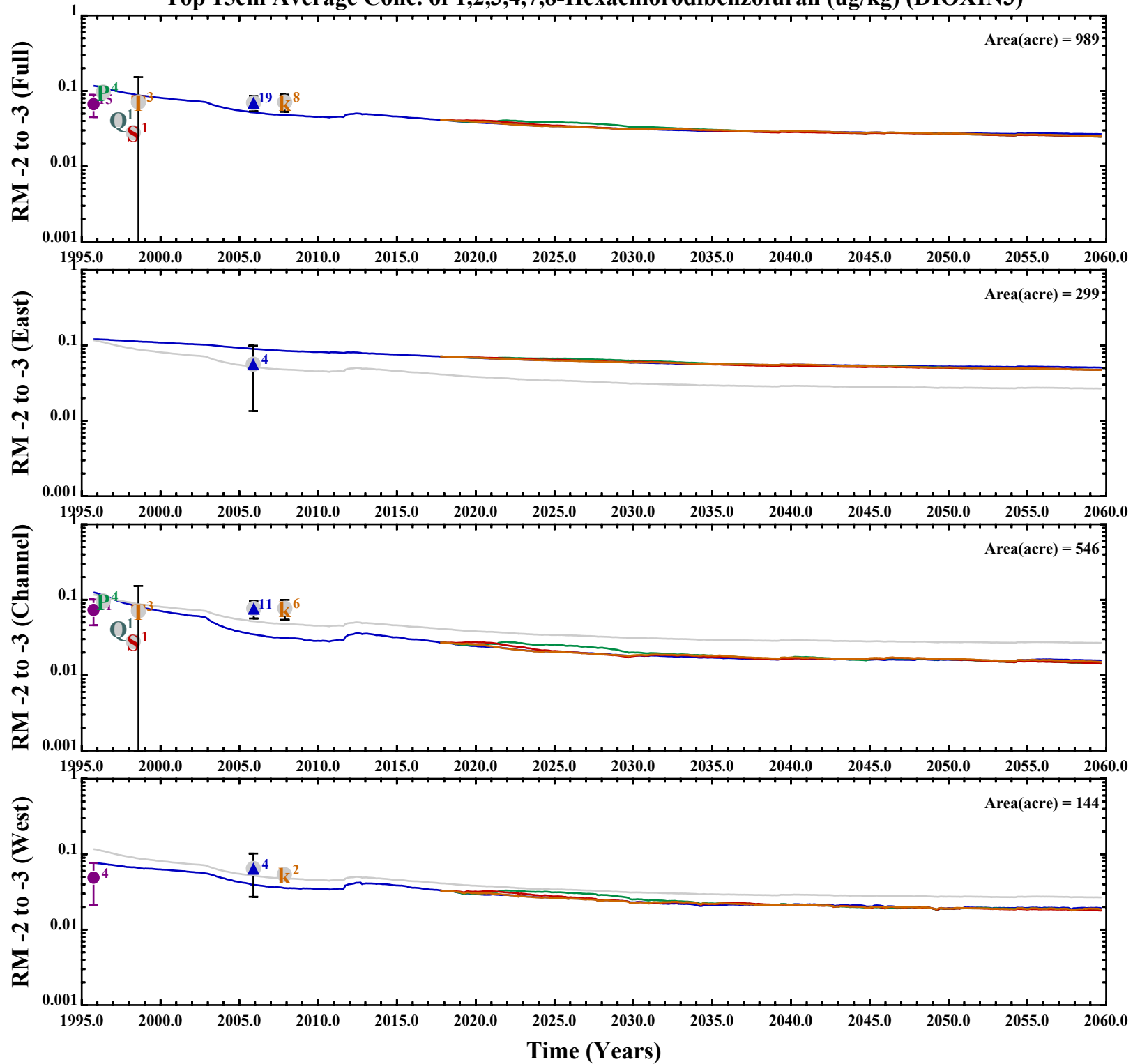


# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



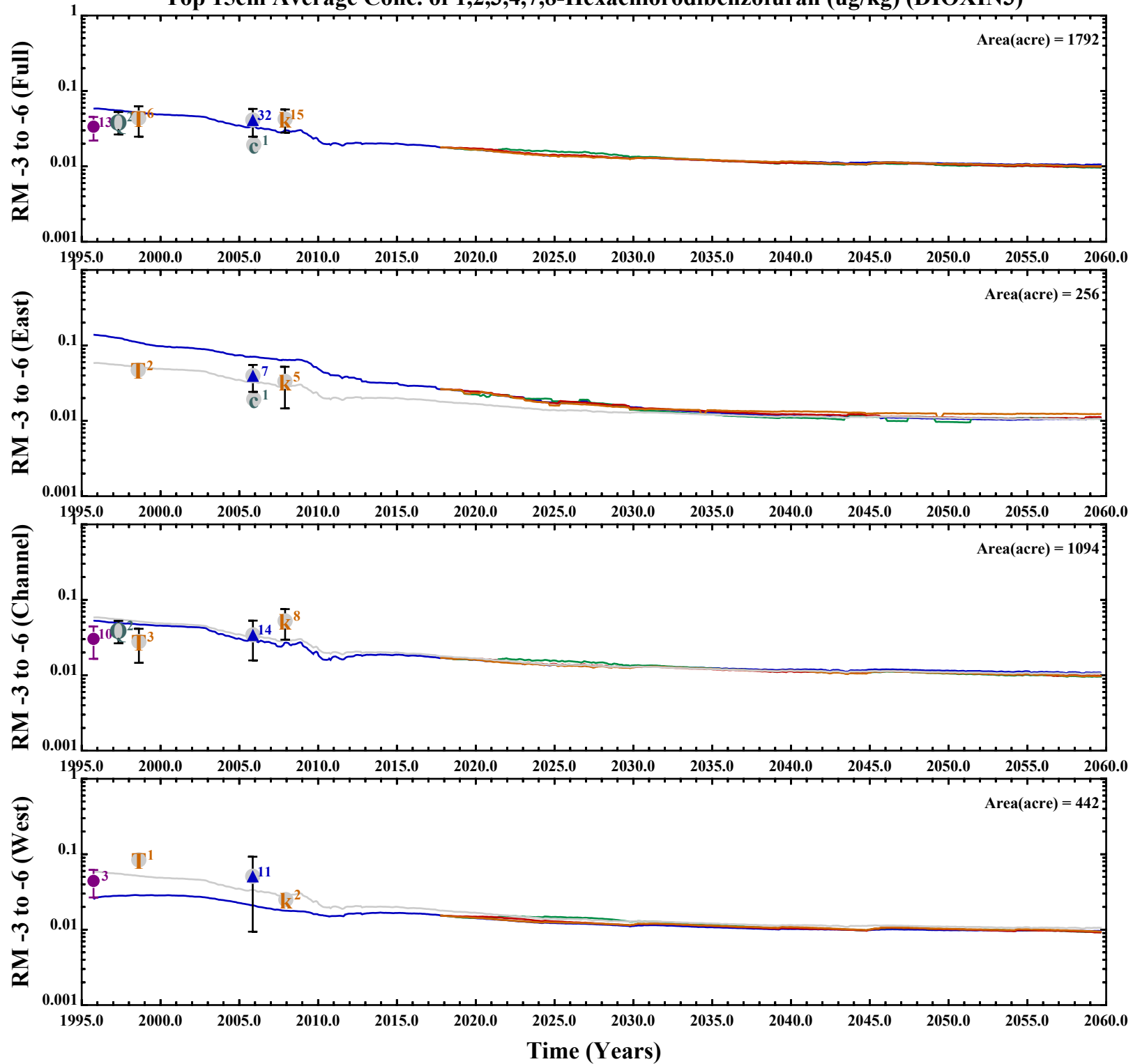
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
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  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - ▼ 2012 CPG Low Res Coring Supplemental
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
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# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
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  - Deep Dredging
  - Full Capping
  - Focused Capping
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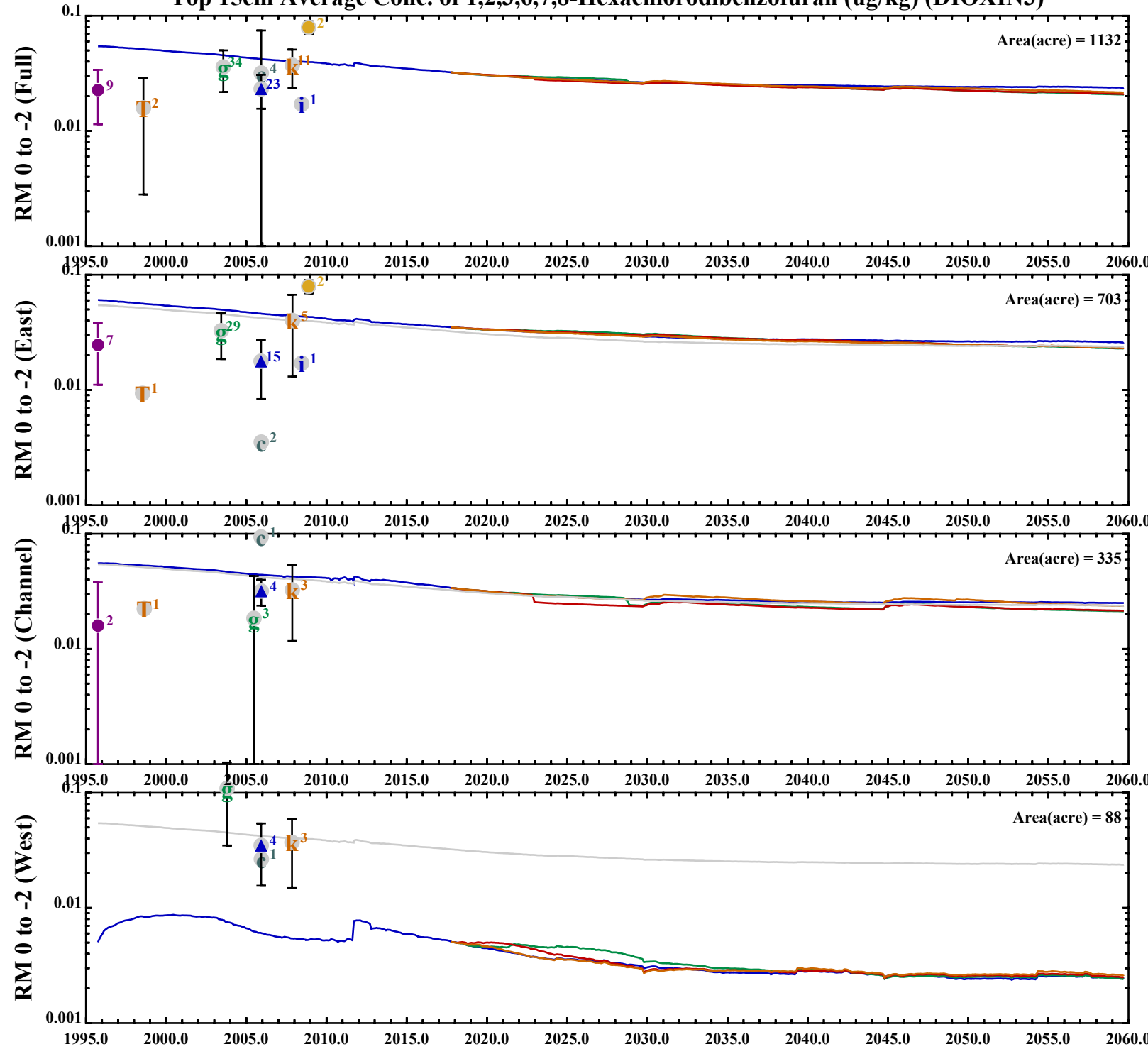
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



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- ▲ 1990 Surficial Sediment Investigation
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- 1992 Core Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

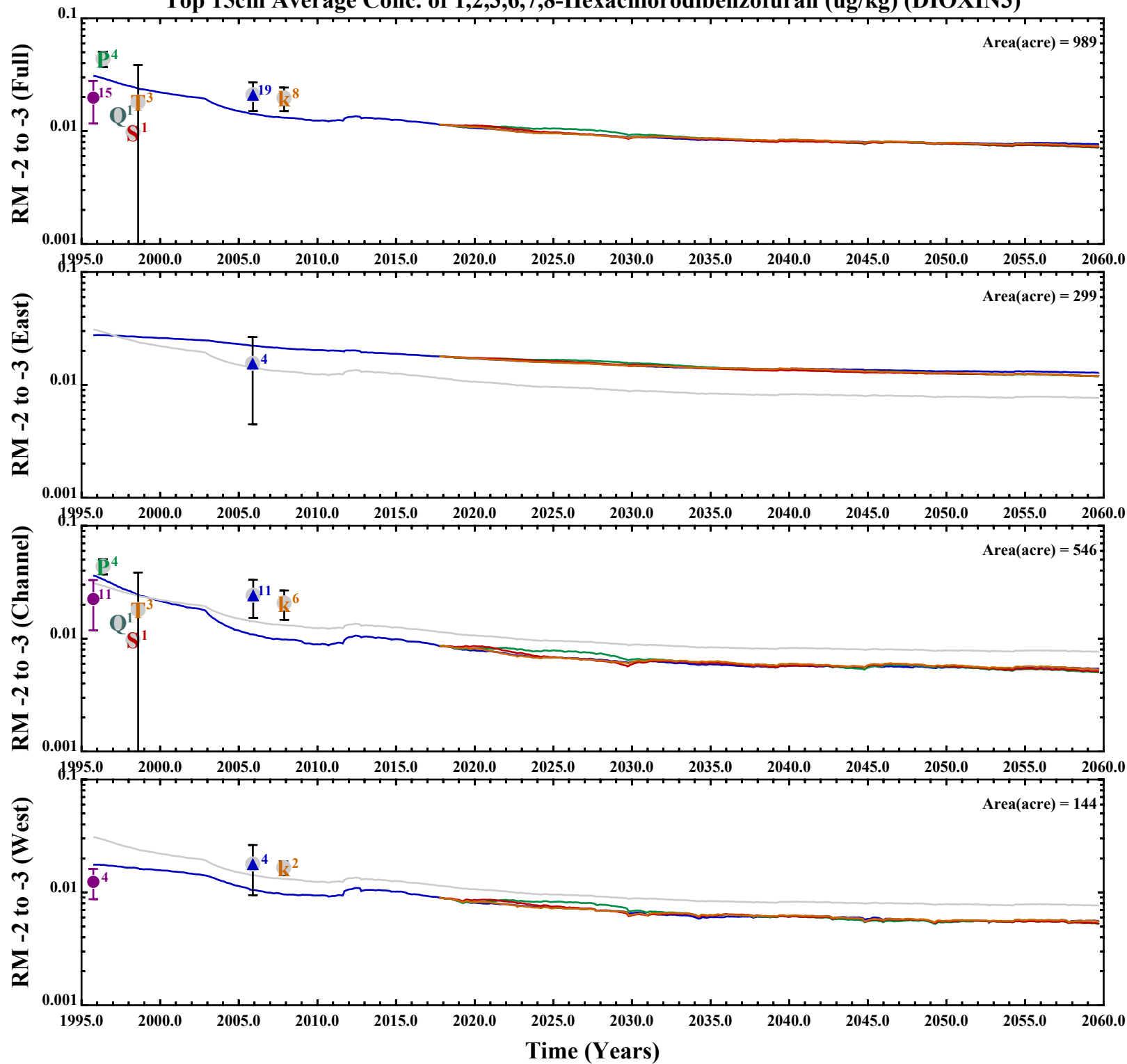
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
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  - REMAP, 1998
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  - 2006 HRSA RI Sampling Program
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  - 2010 CPG Benthic Sediment Sampling
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  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

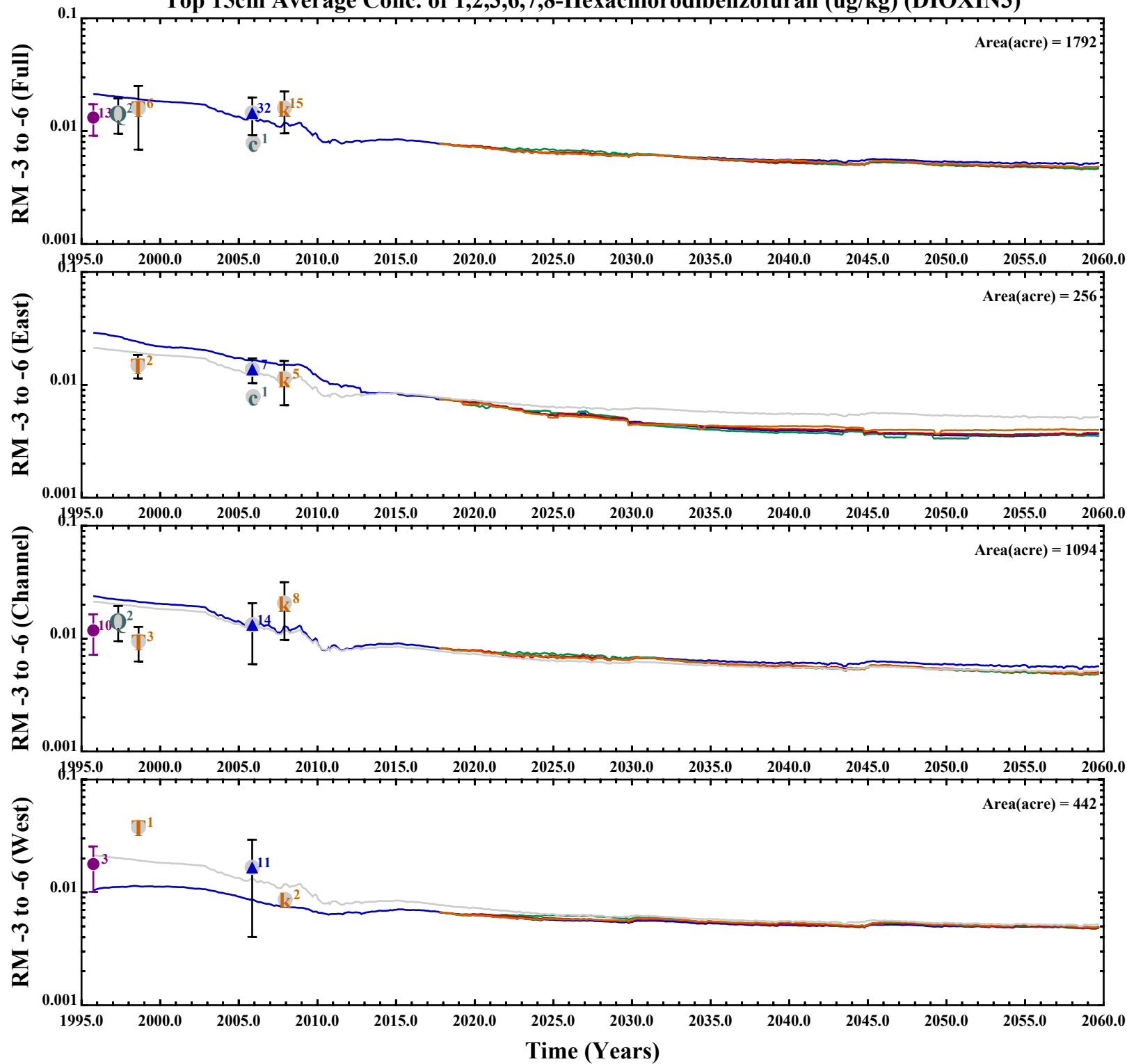
Time (Years)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



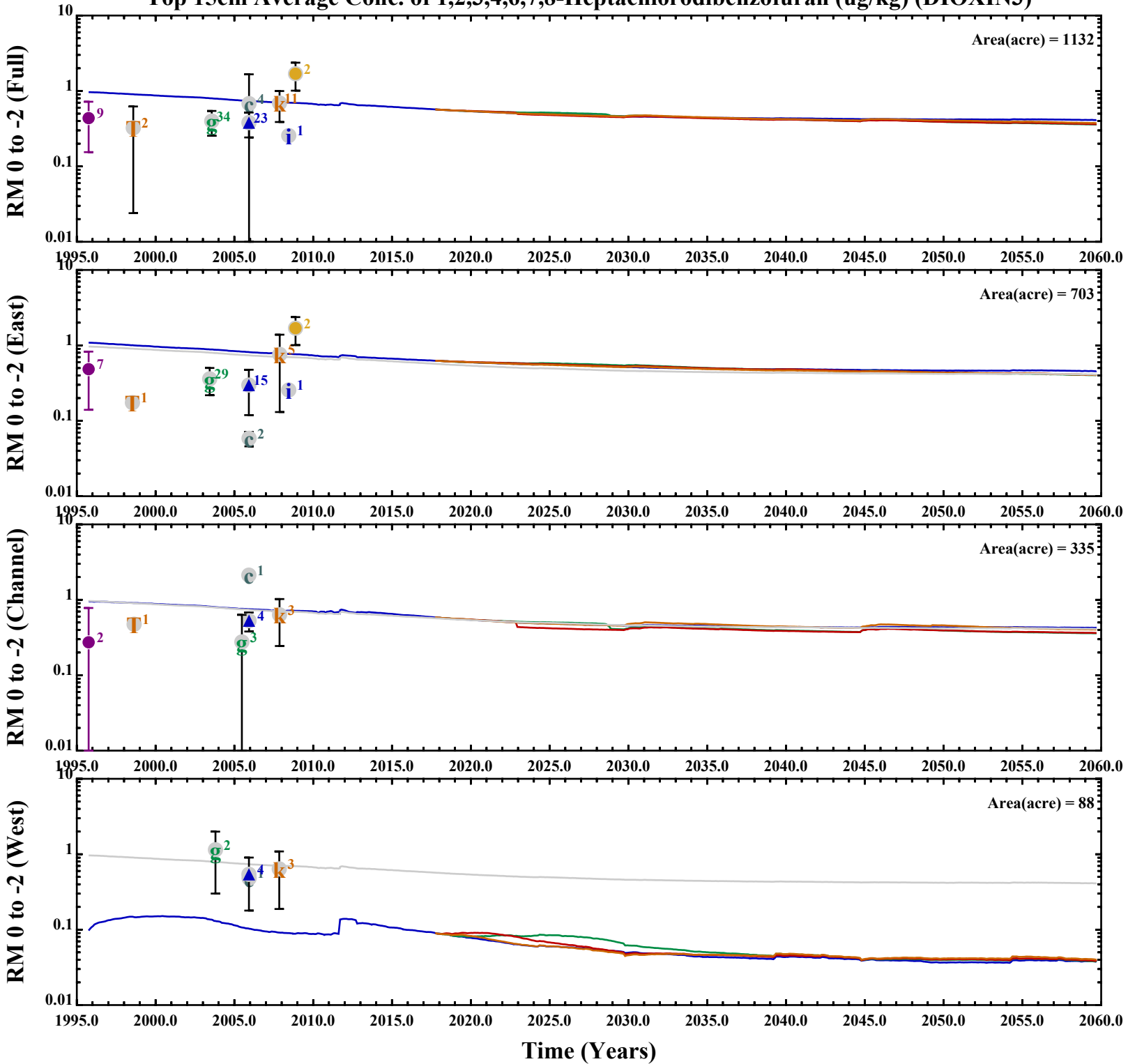
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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  - T REMAP, 1998
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  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
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  - d 2005 USEPA-MPI High Res Sediment Core
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  - q 2010 USEPA-CDM Benthic Oversight
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  - t 2012 CPG Background Benthic Sediment
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



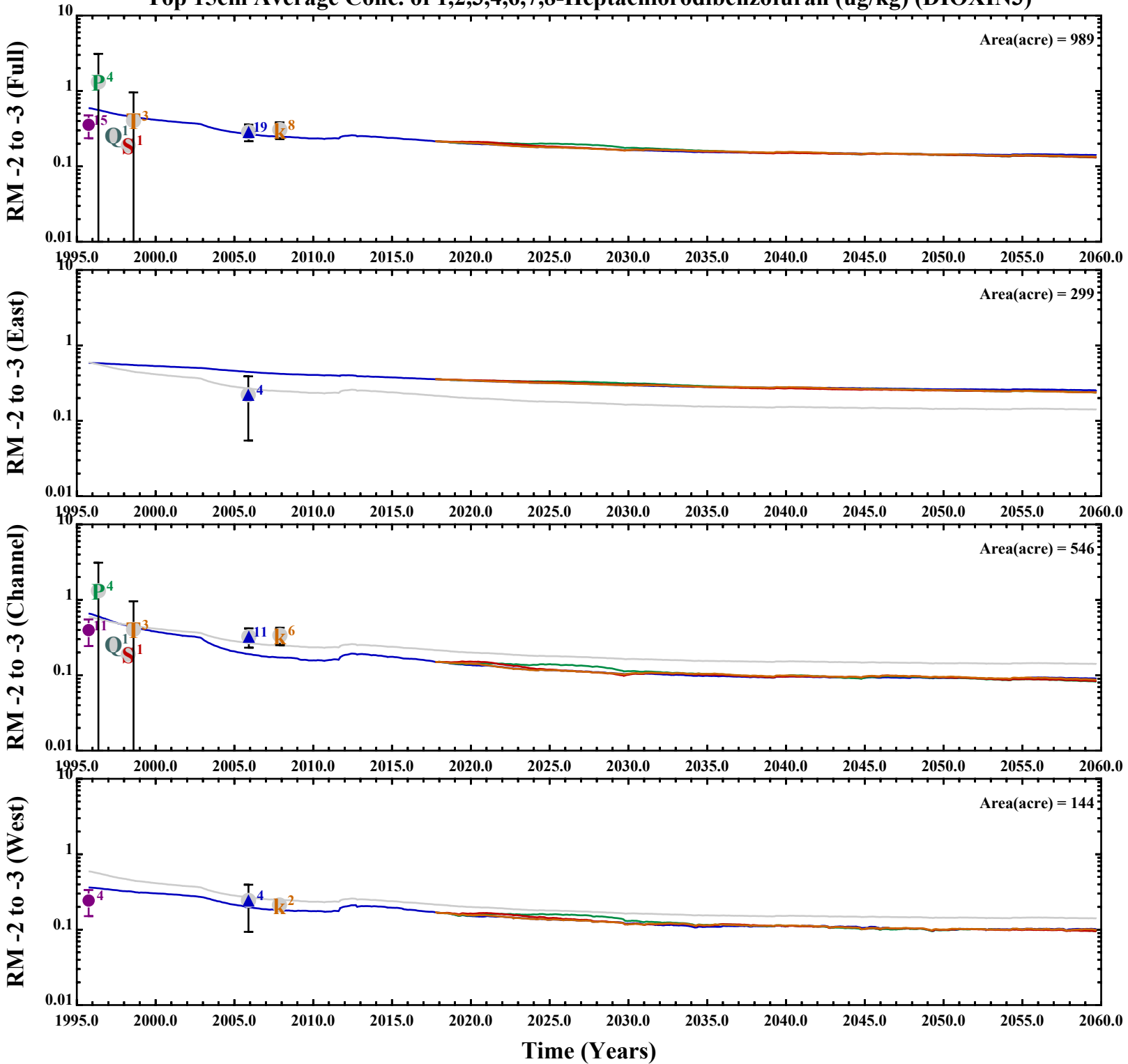
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990-92 EPA EMAP
  - 1991 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993-94 NOAA NS&T Hudson-Raritan Phase II
  - 1993 REMAP
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  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



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  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
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  - U 1999 Late Summer/Early Fall ESP Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
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  - c 2005 MPI - Newark Bay Phase I Oversight
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  - d 2005 USEPA-MPI High Res Sediment Core
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  - p 2010 CPG Benthic Sediment Sampling
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  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)

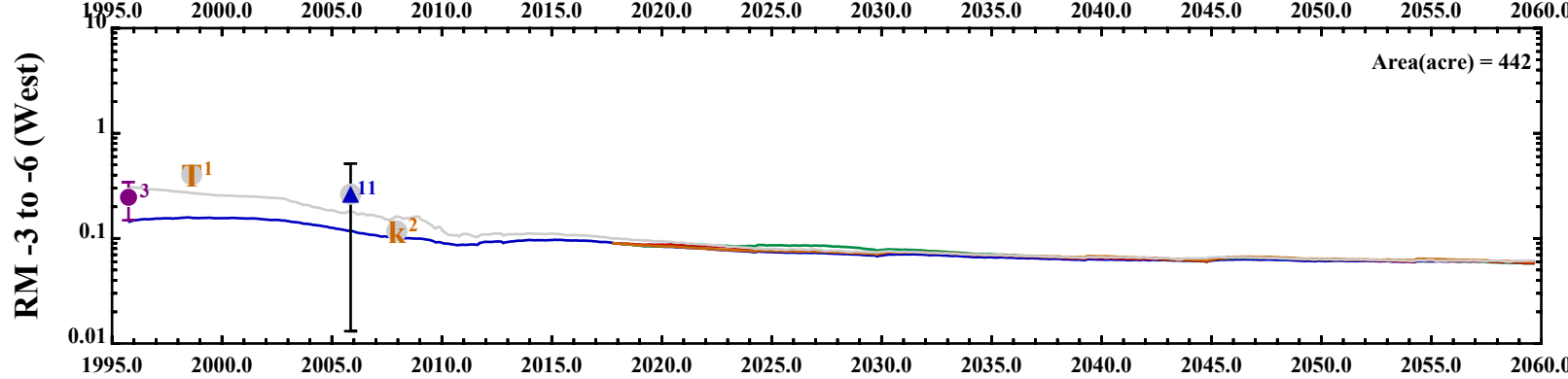
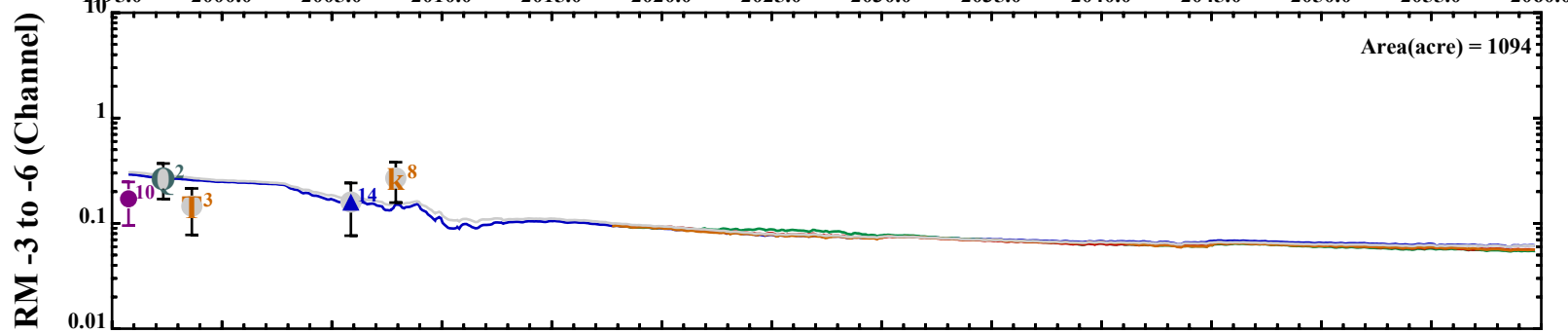
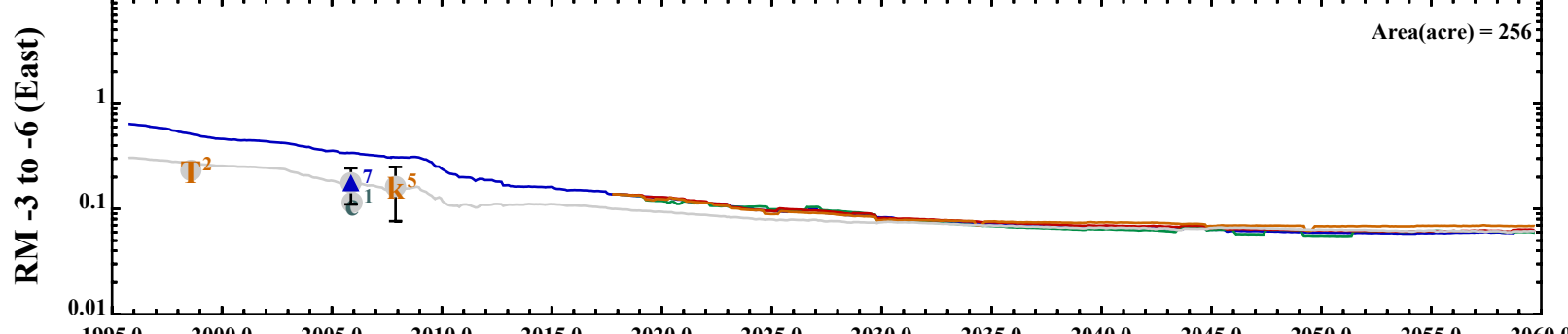
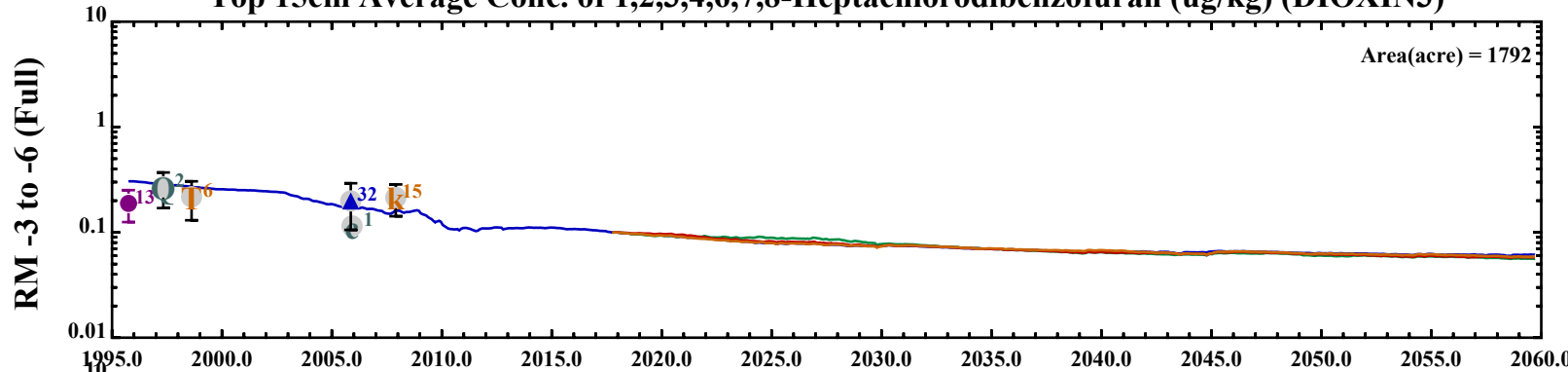


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- 1993 Core Sediment Investigation - 01 (March)
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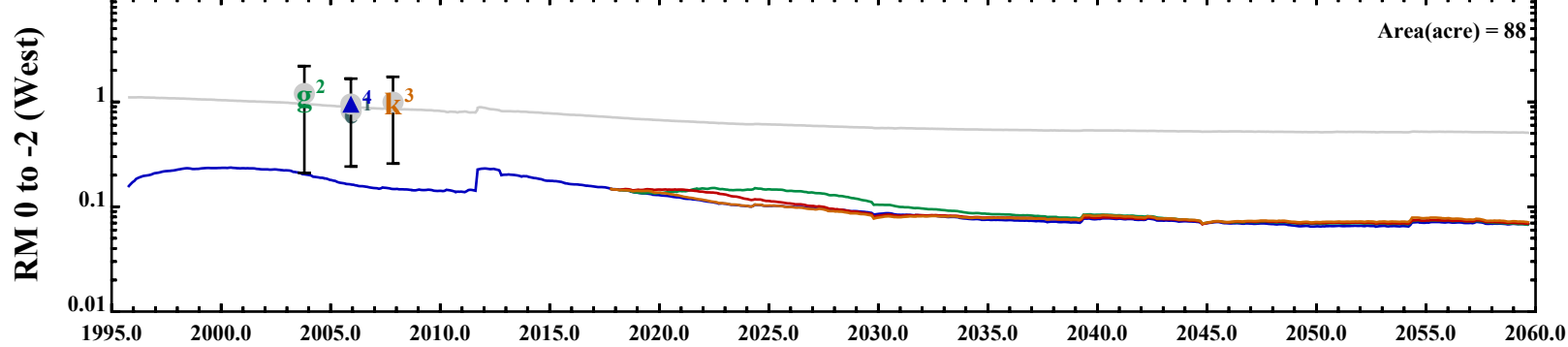
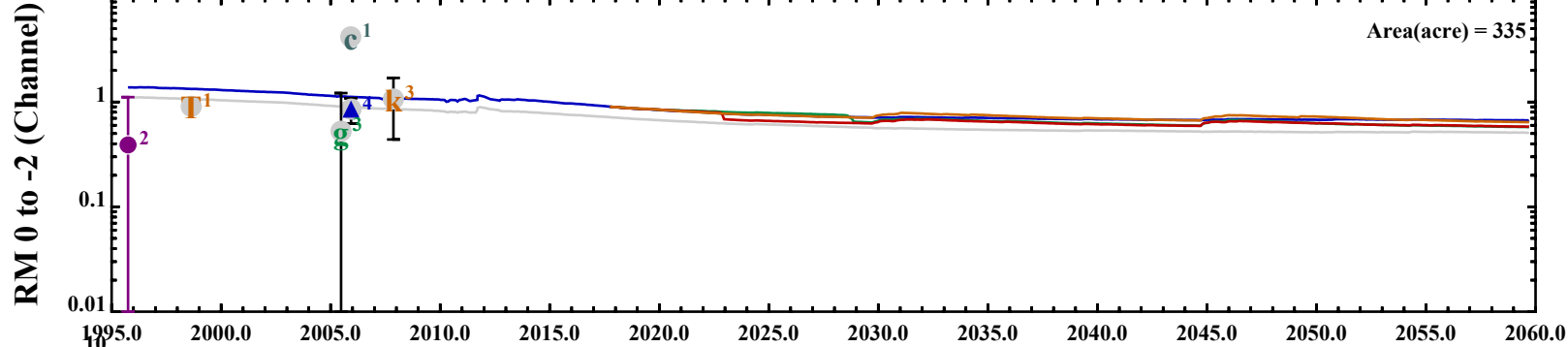
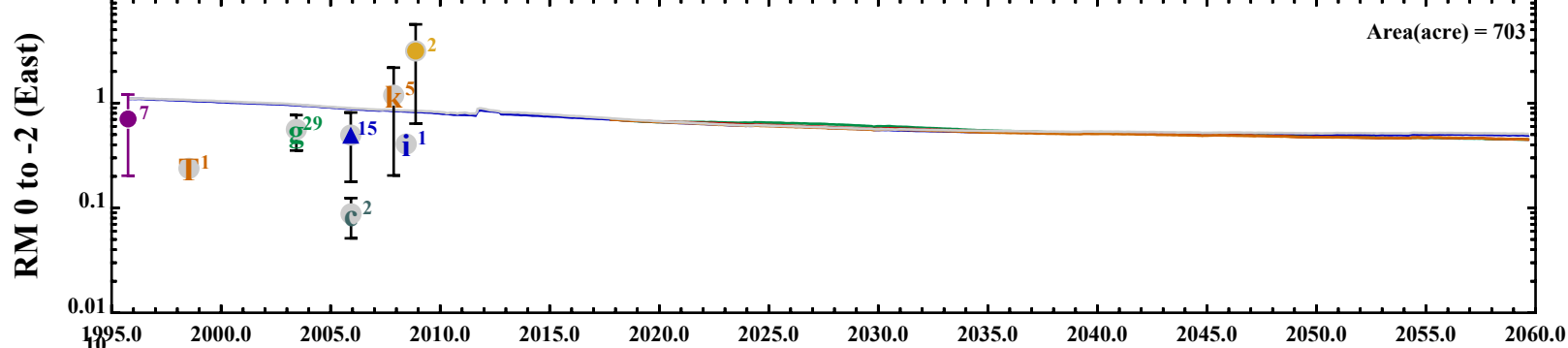
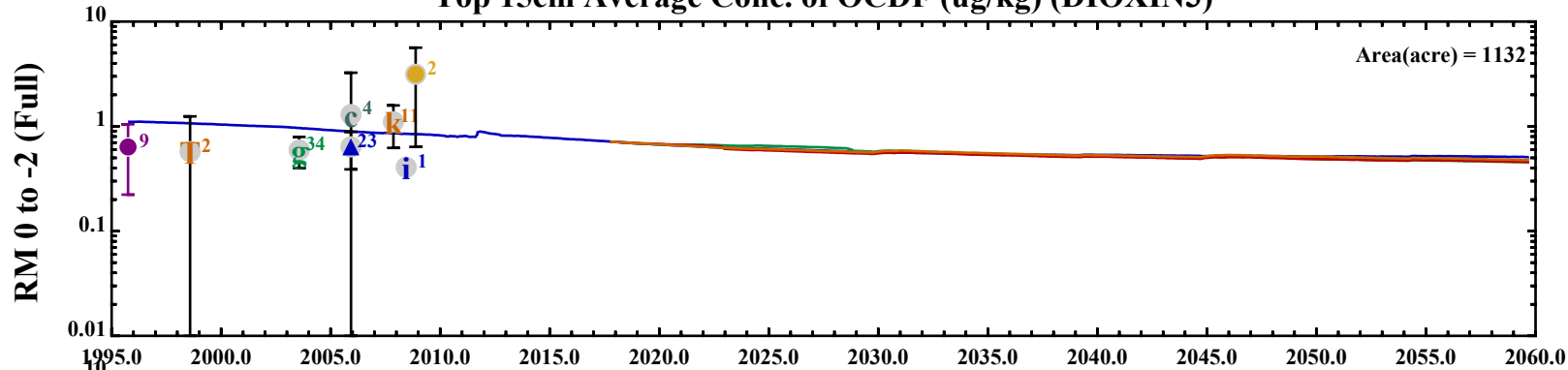
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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

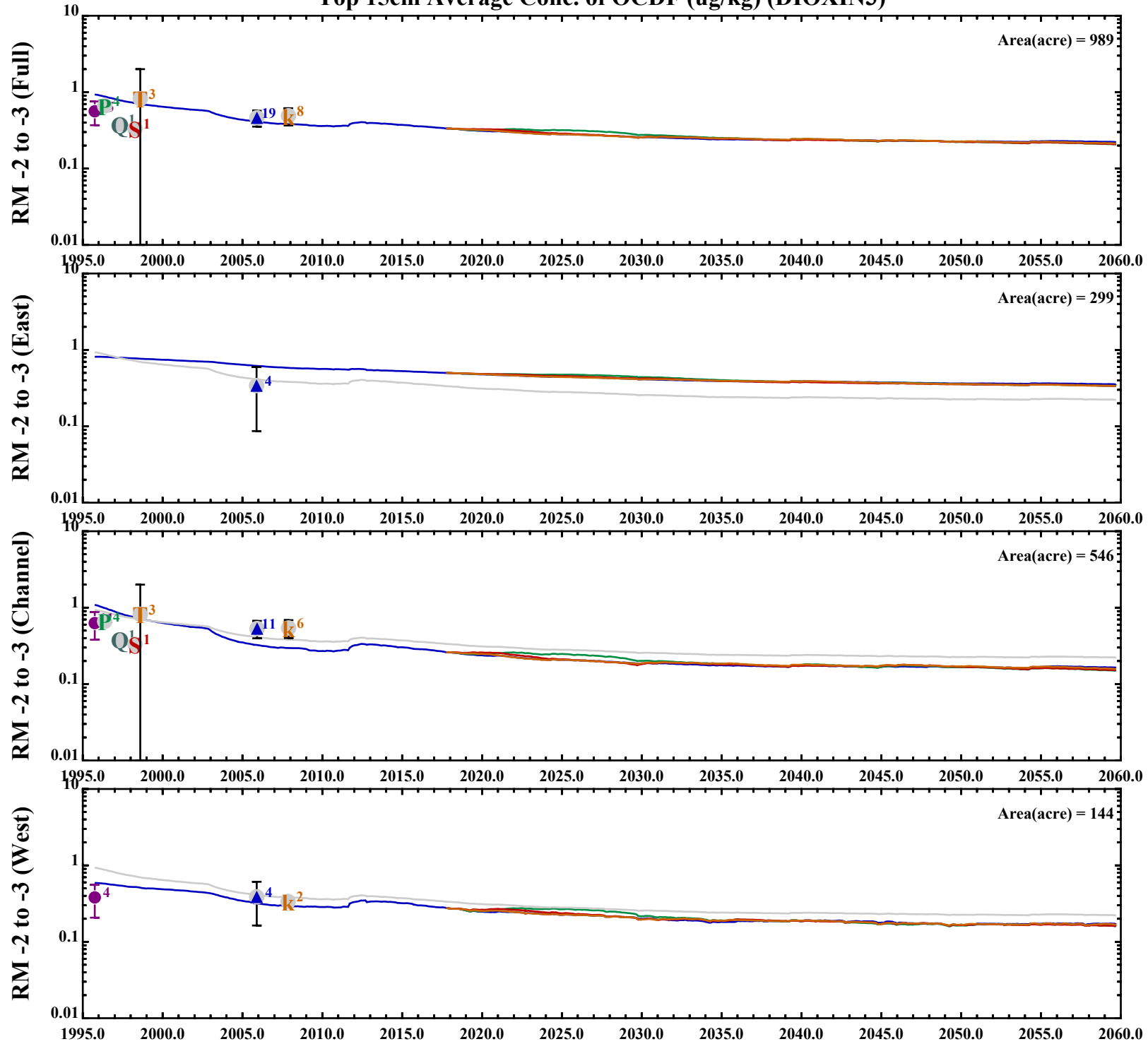
# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)



- Data used for ICs
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  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

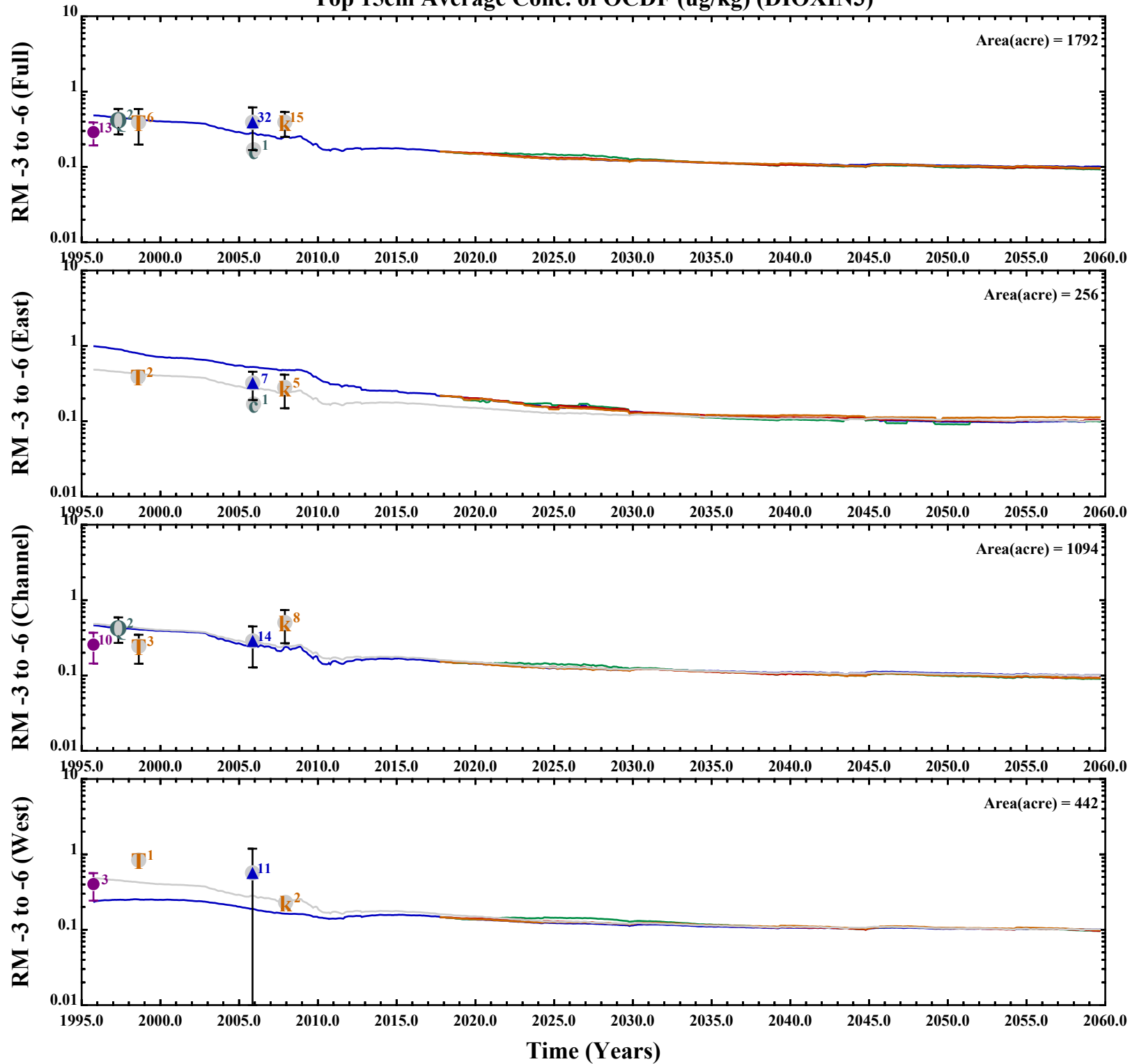
Time (Years)

# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)



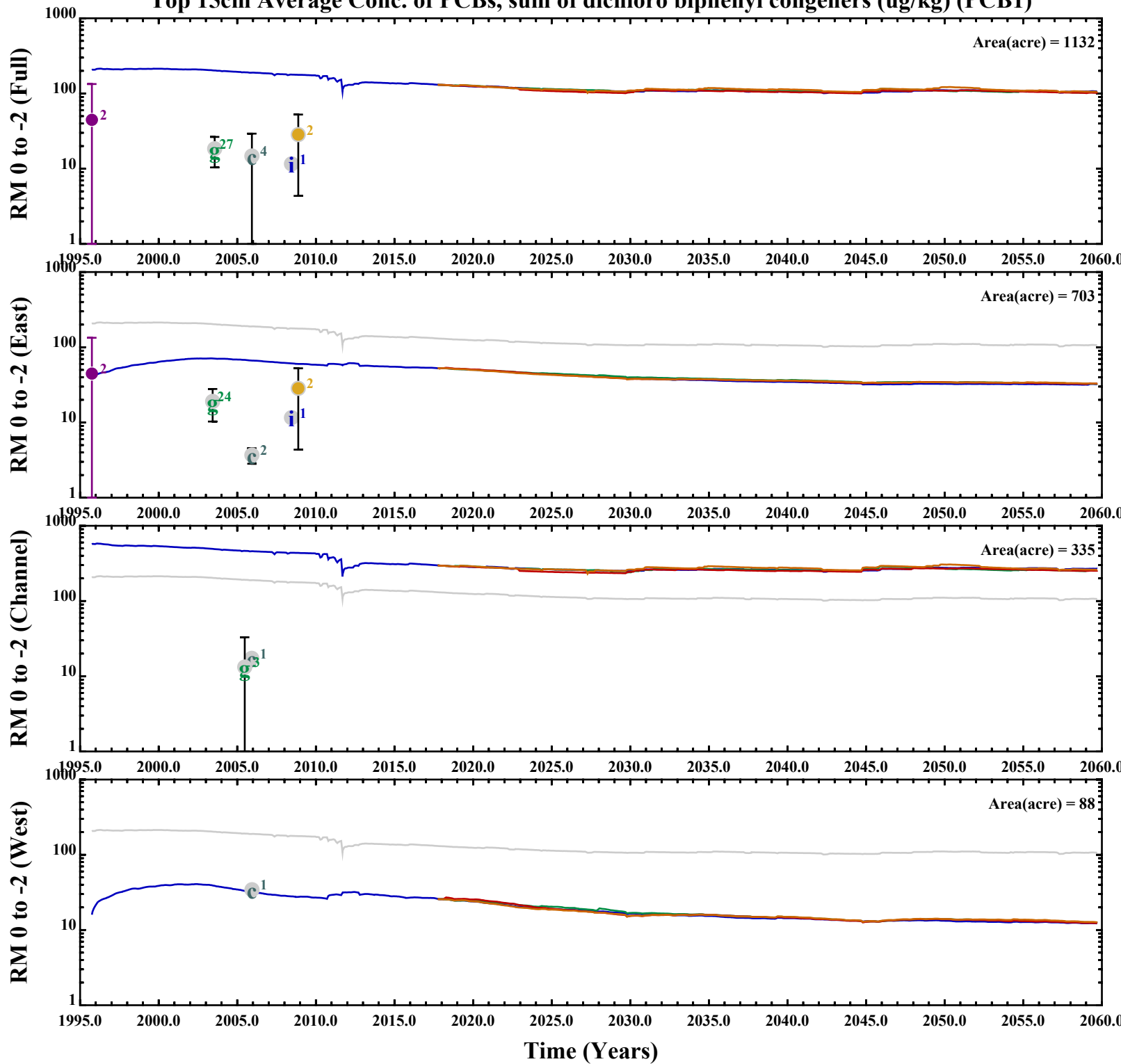
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  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

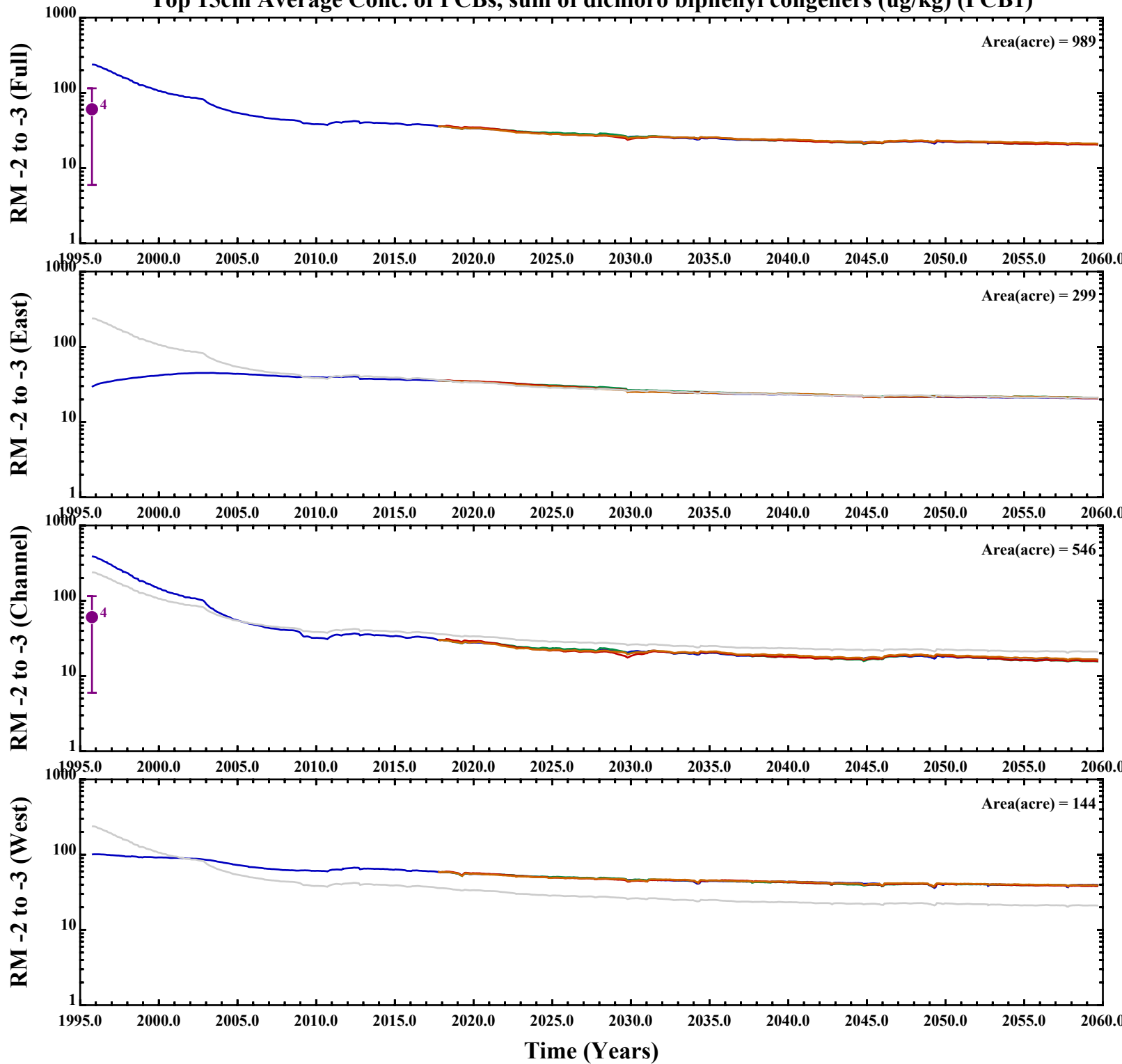
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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- A 1990 Surficial Sediment Investigation
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- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

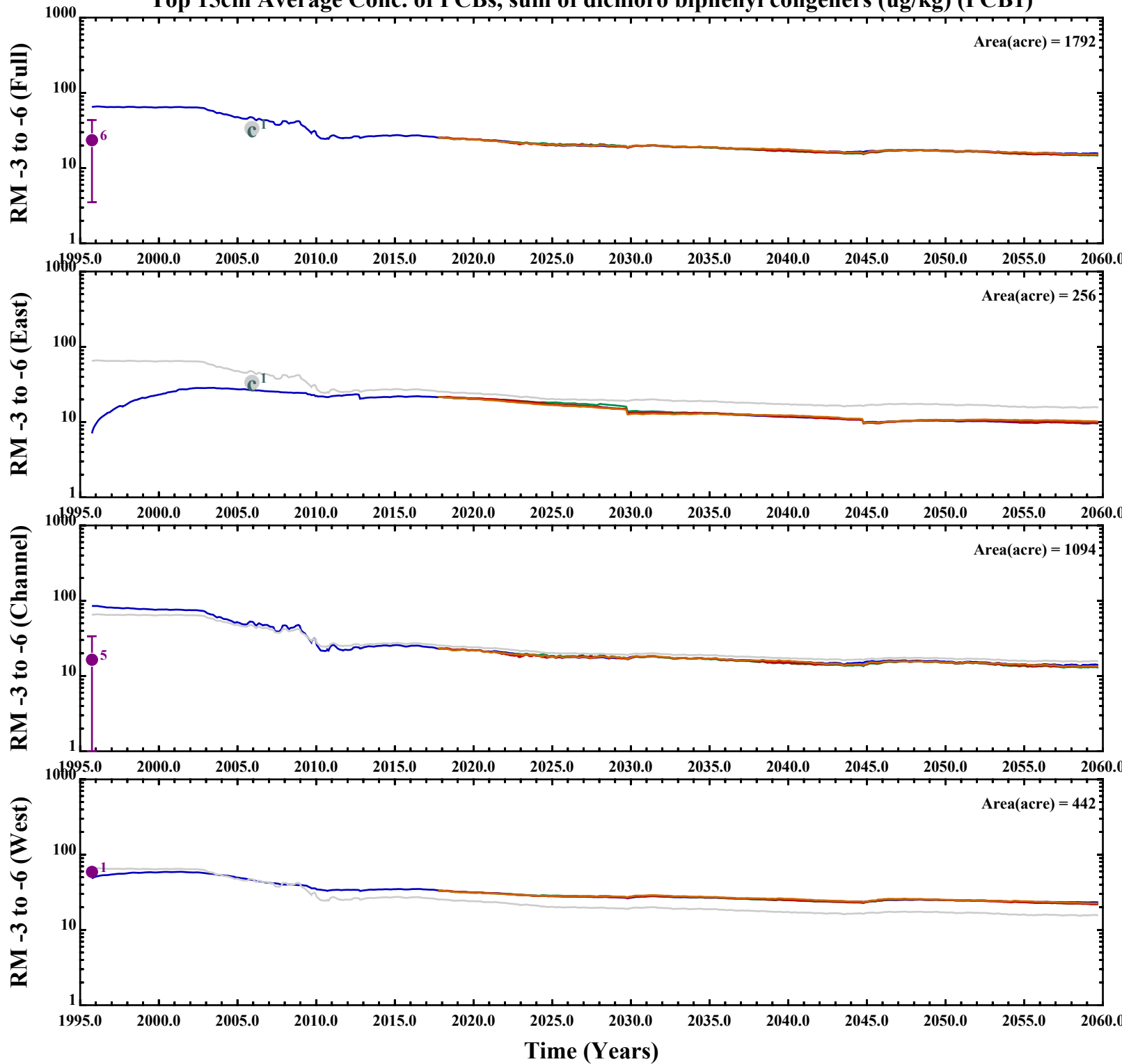
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

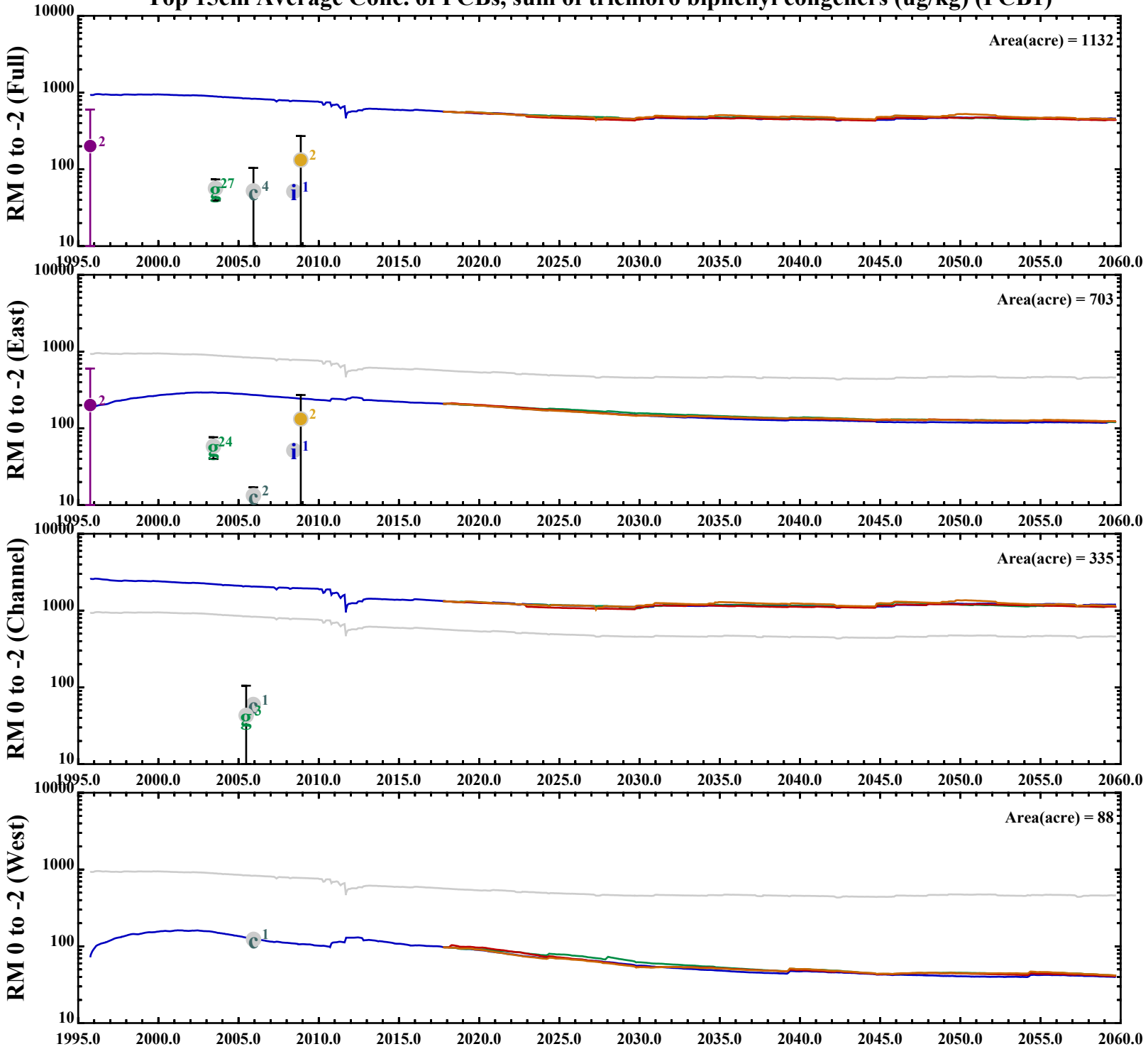
# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)



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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
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- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)



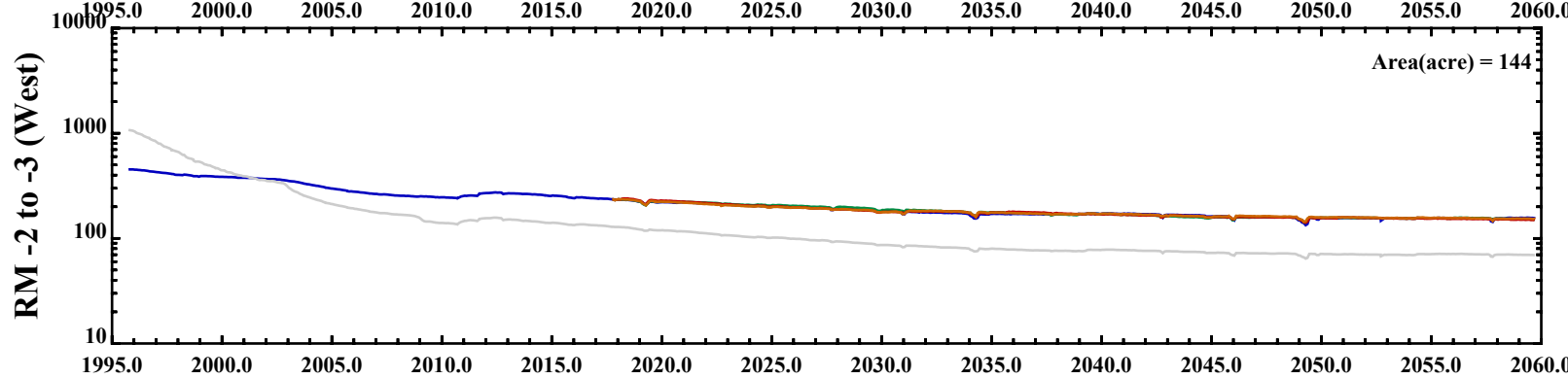
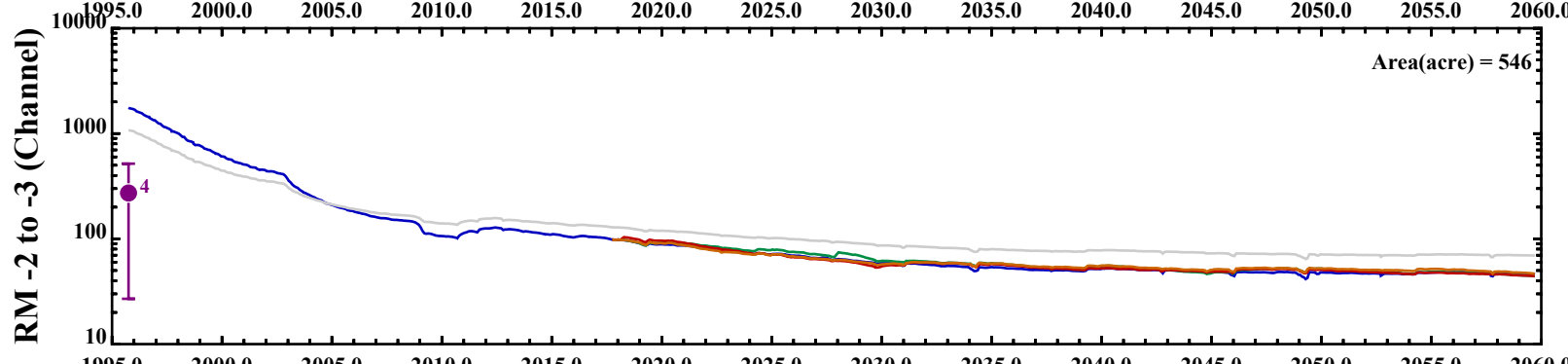
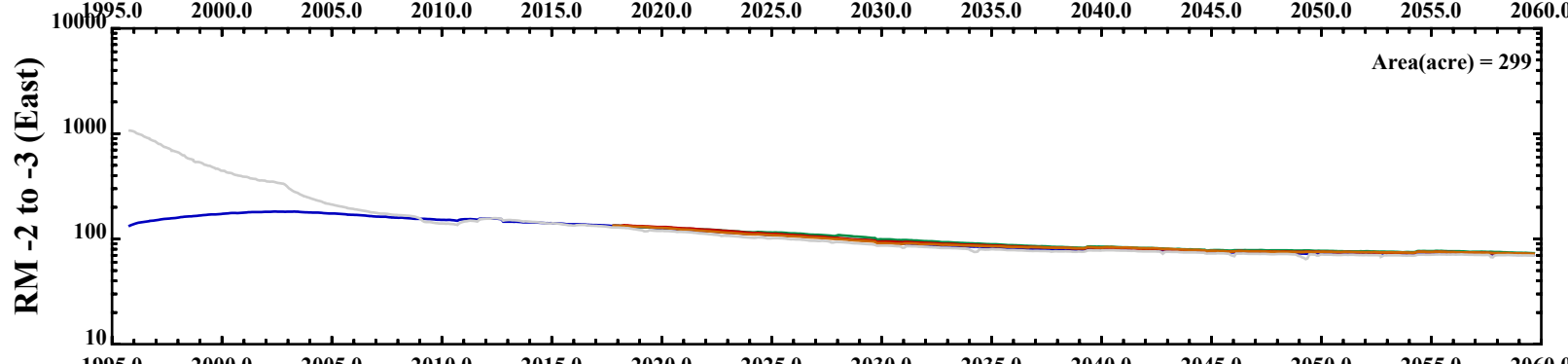
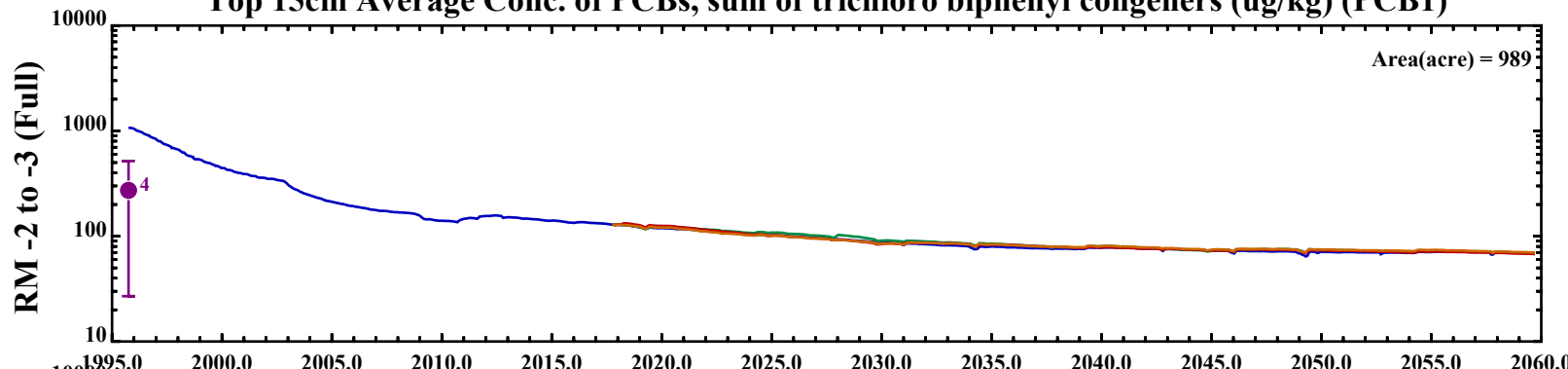
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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
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- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)



# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

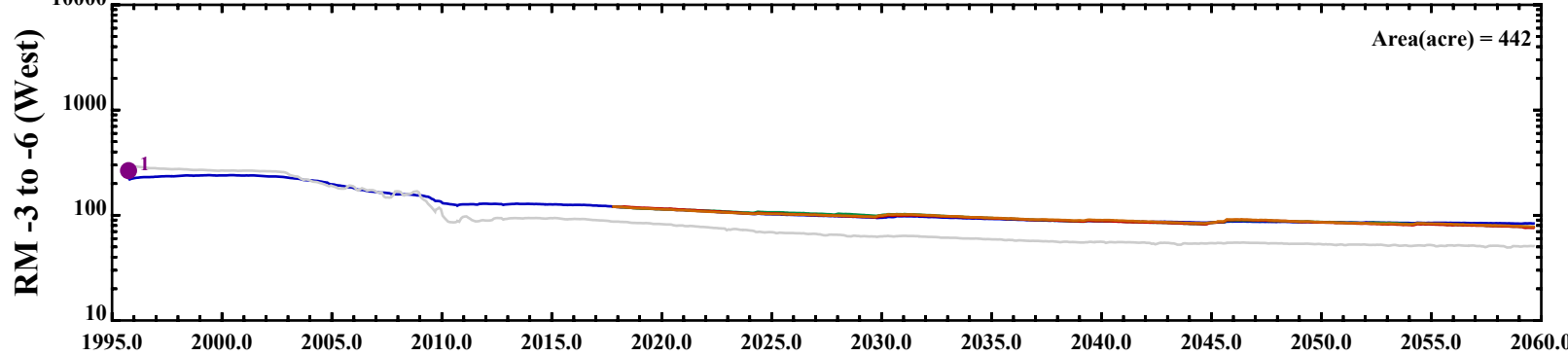
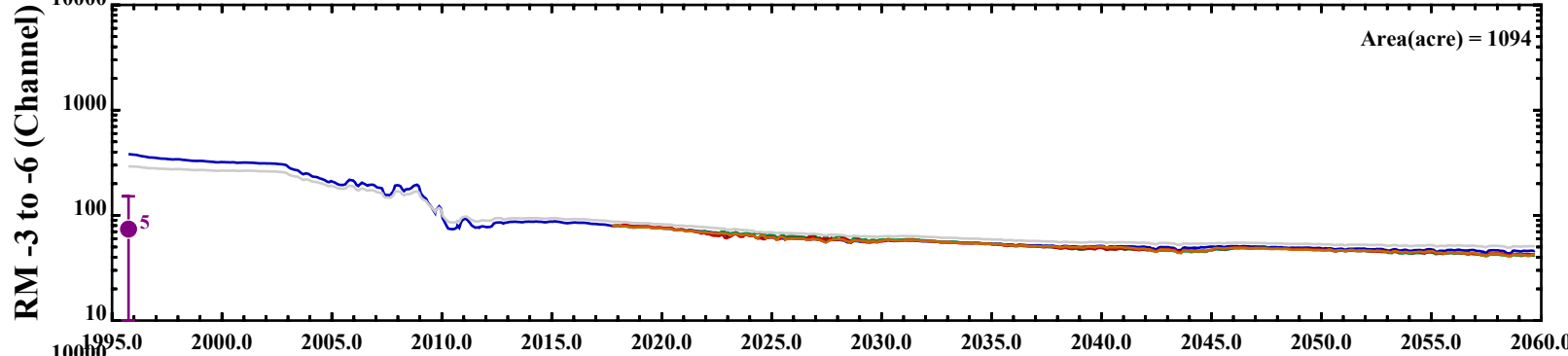
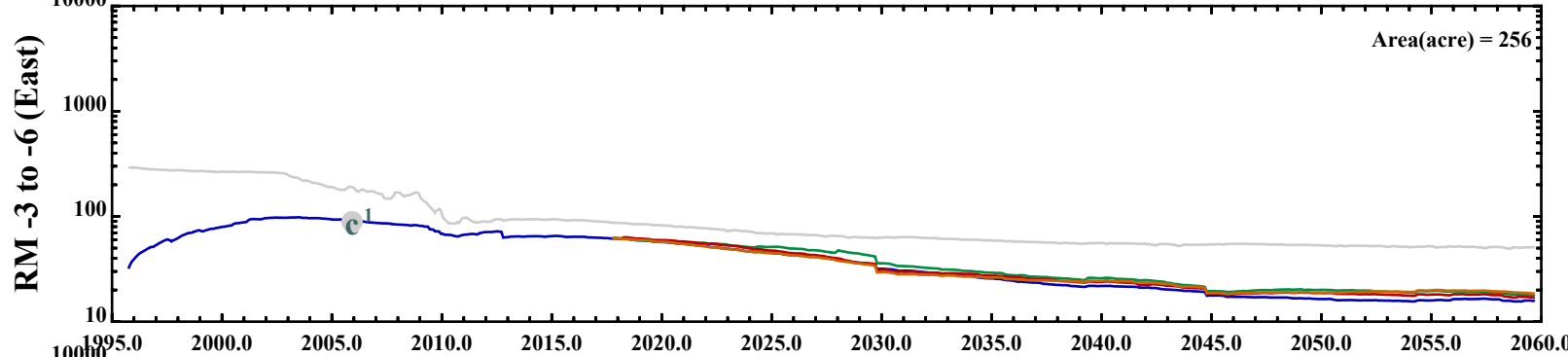
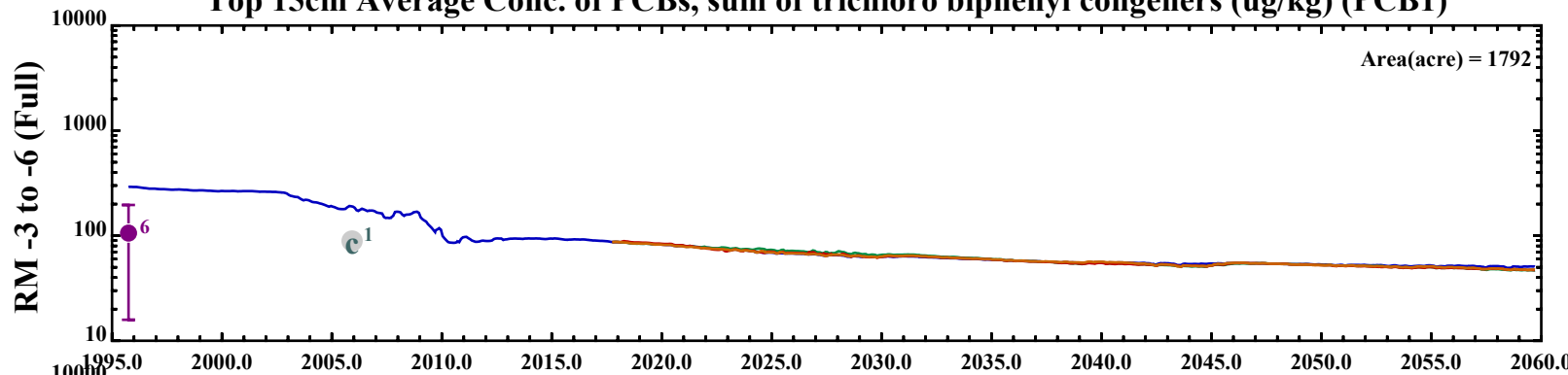


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- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

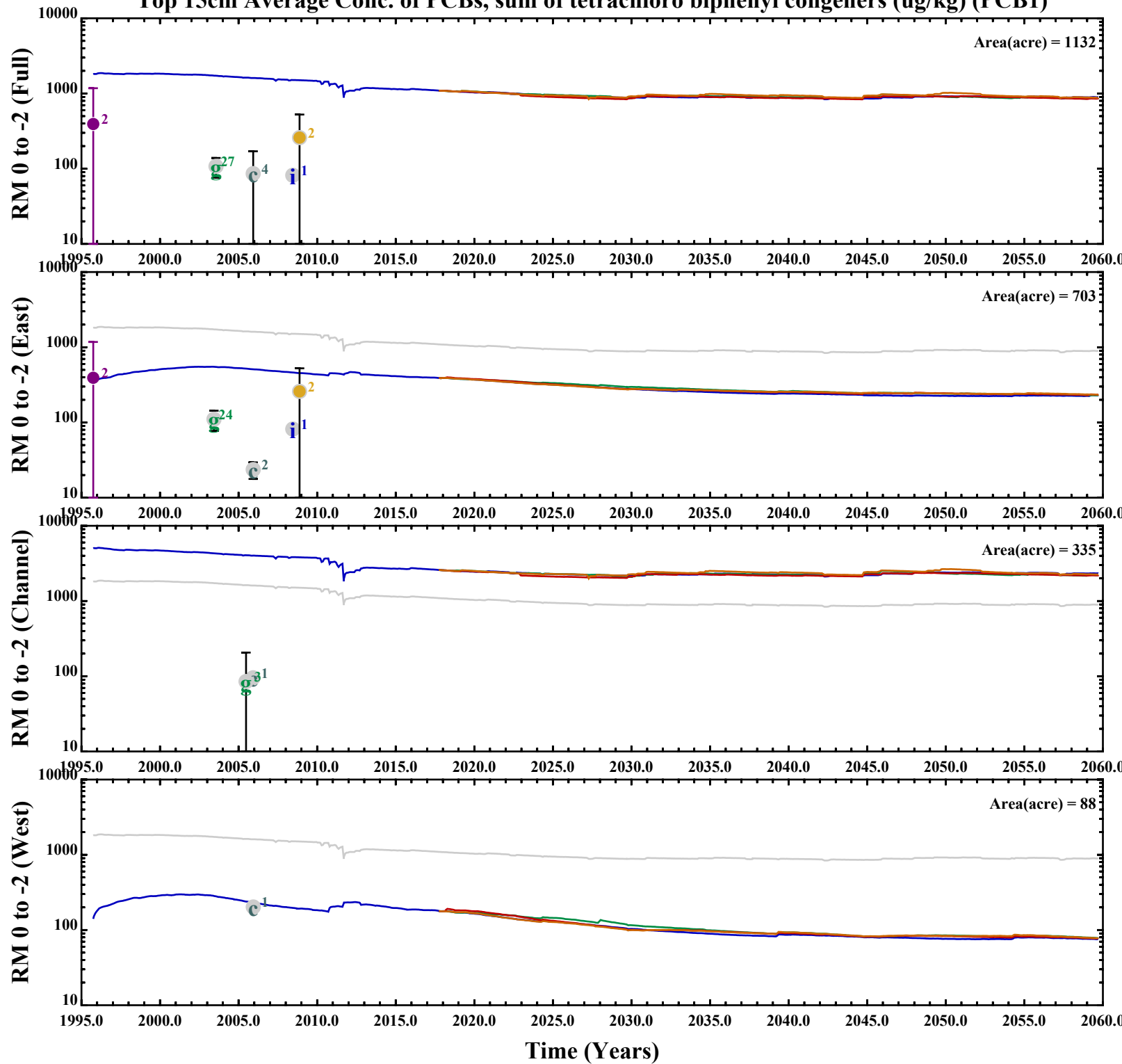


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Time (Years)

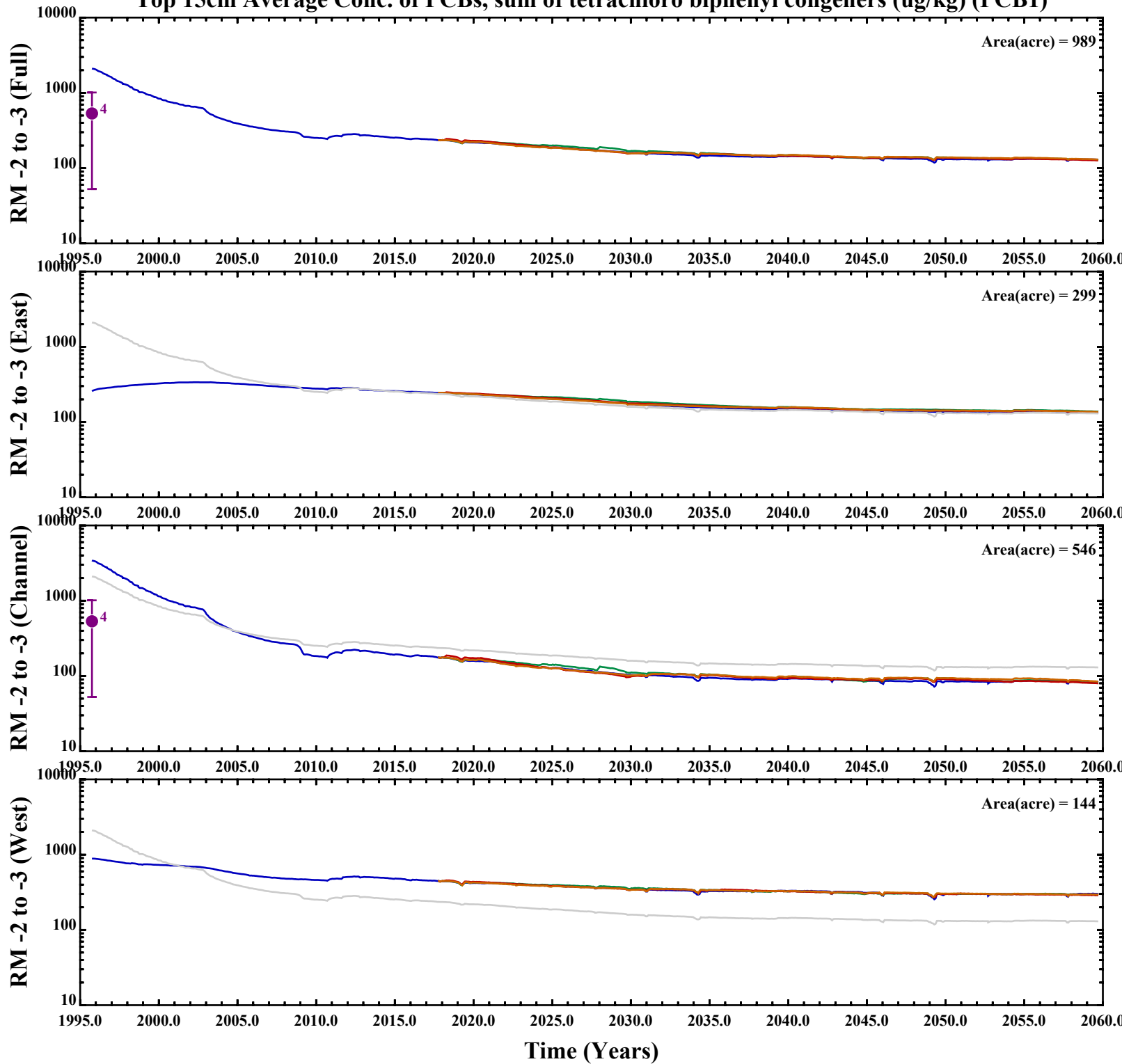
# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



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- A 1990 Surficial Sediment Investigation
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- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

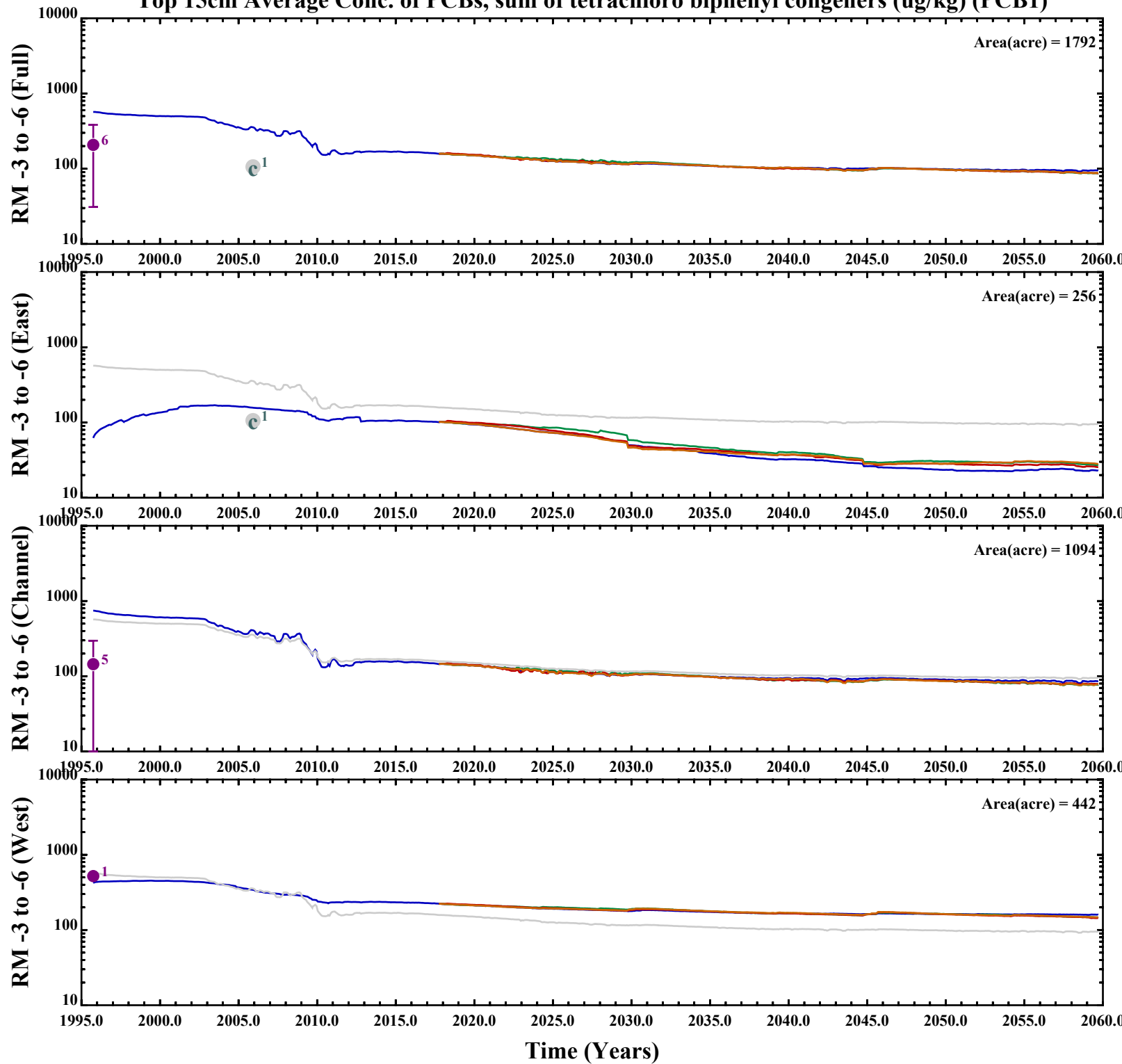
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
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  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
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  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
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  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

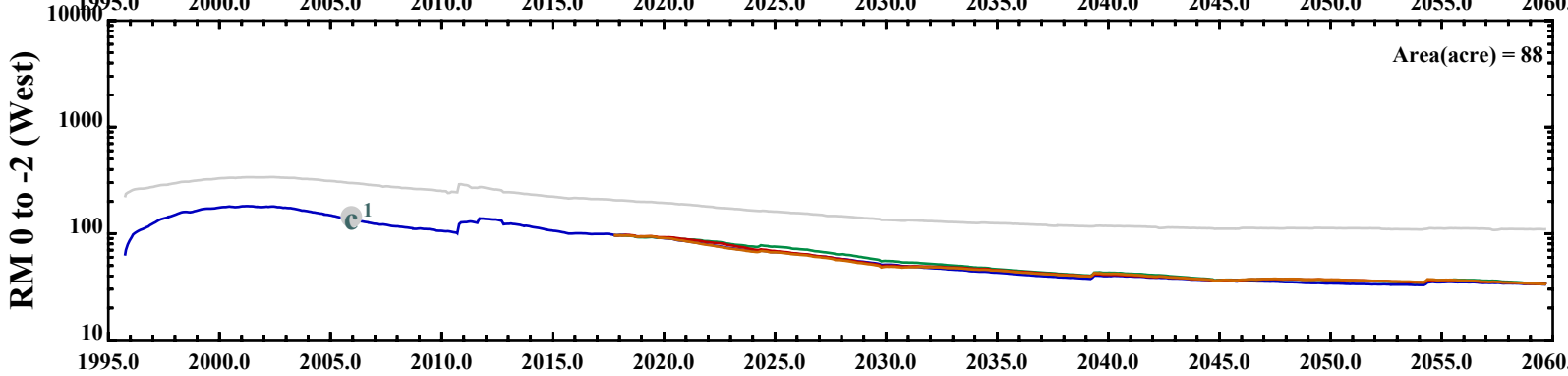
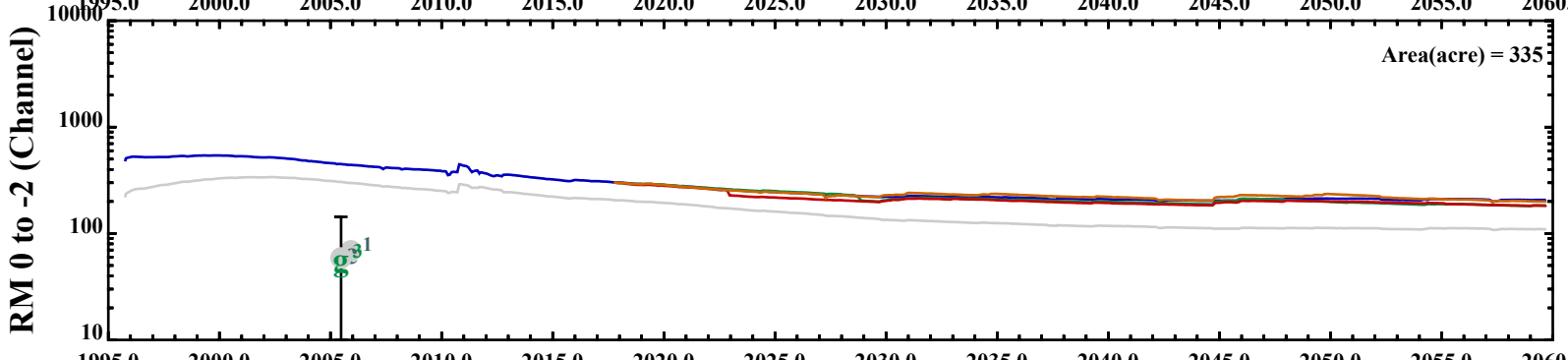
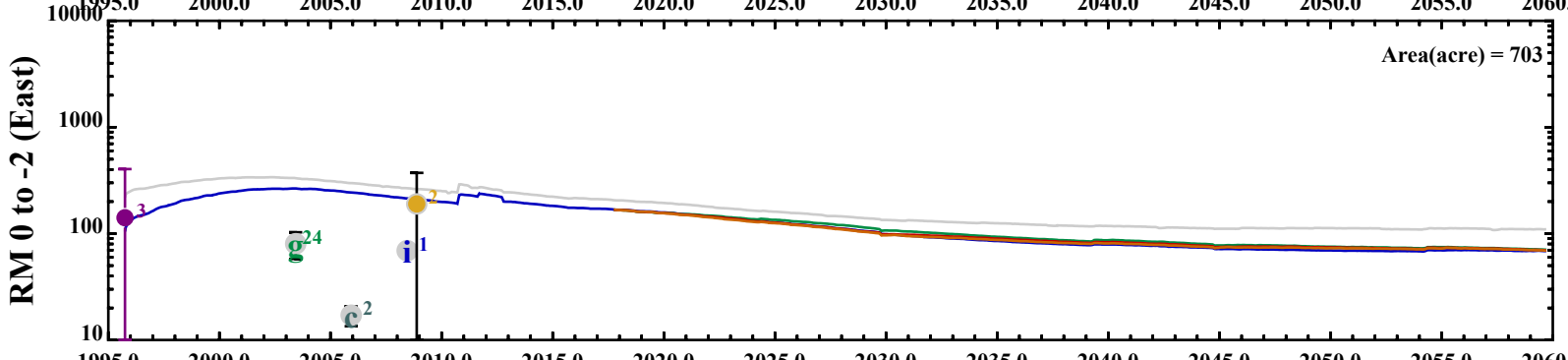
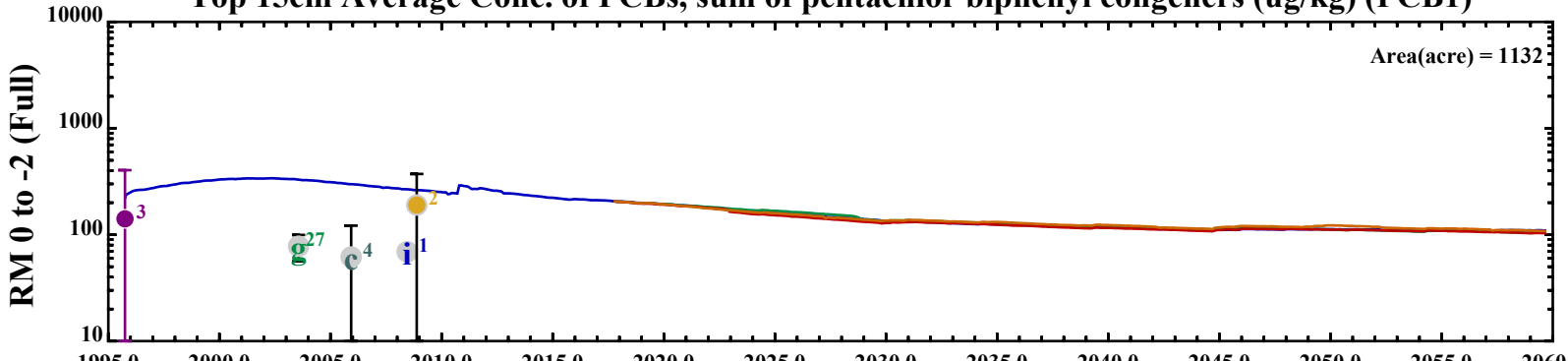
# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

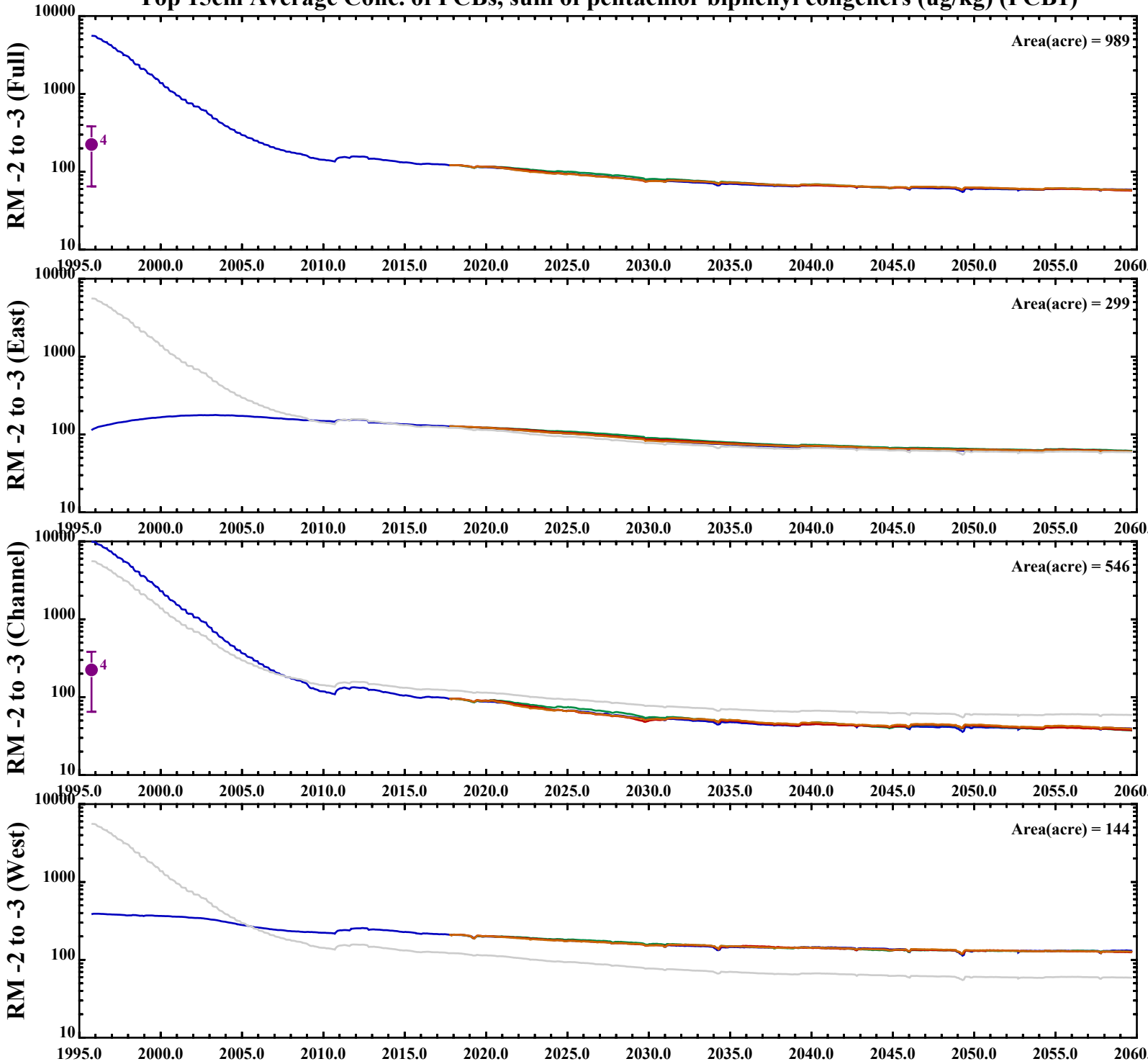


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

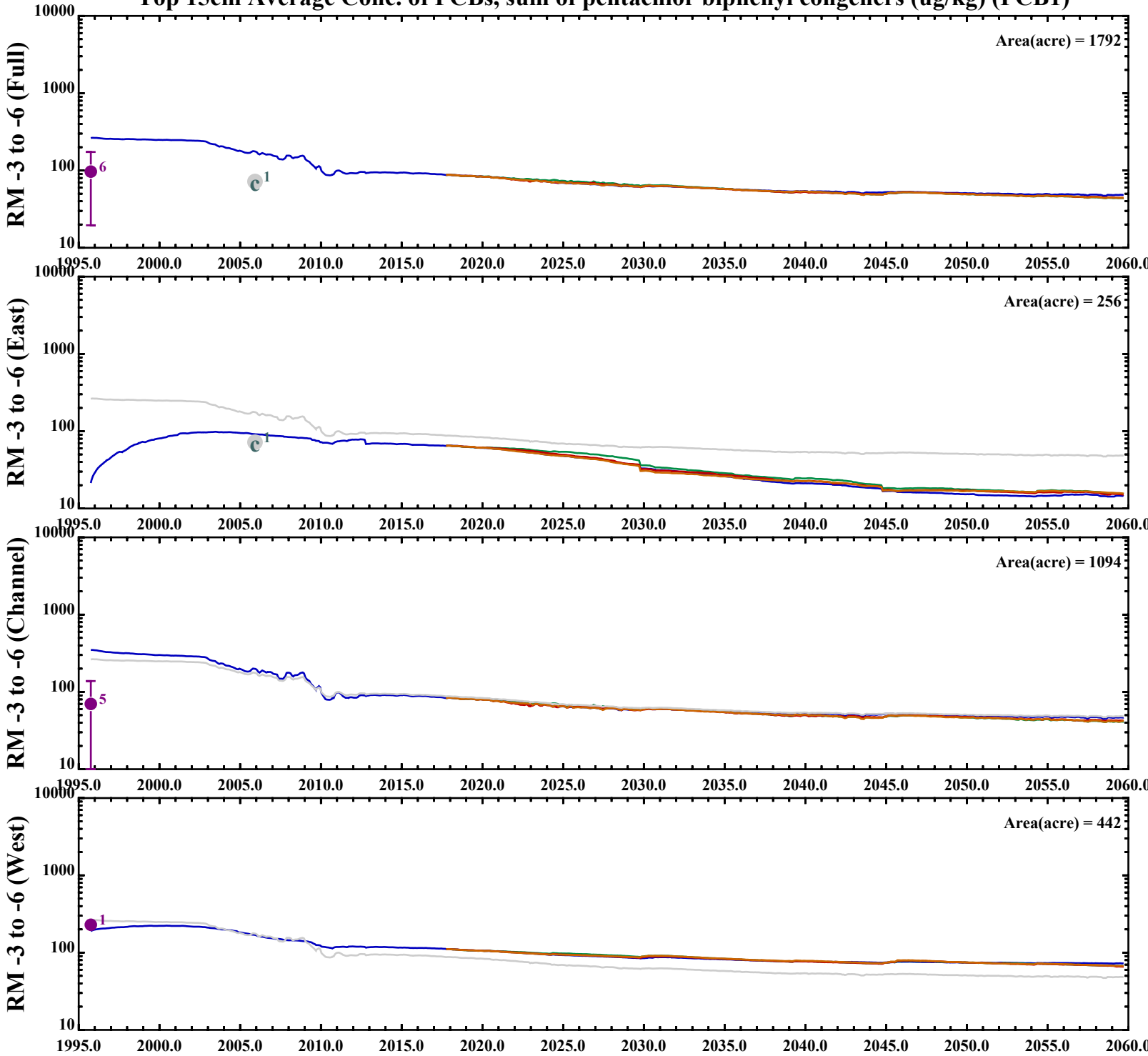
Time (Years)

# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
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  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
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  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
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  - No Action Gradient IC, Reach Scale Up (Full Reach)

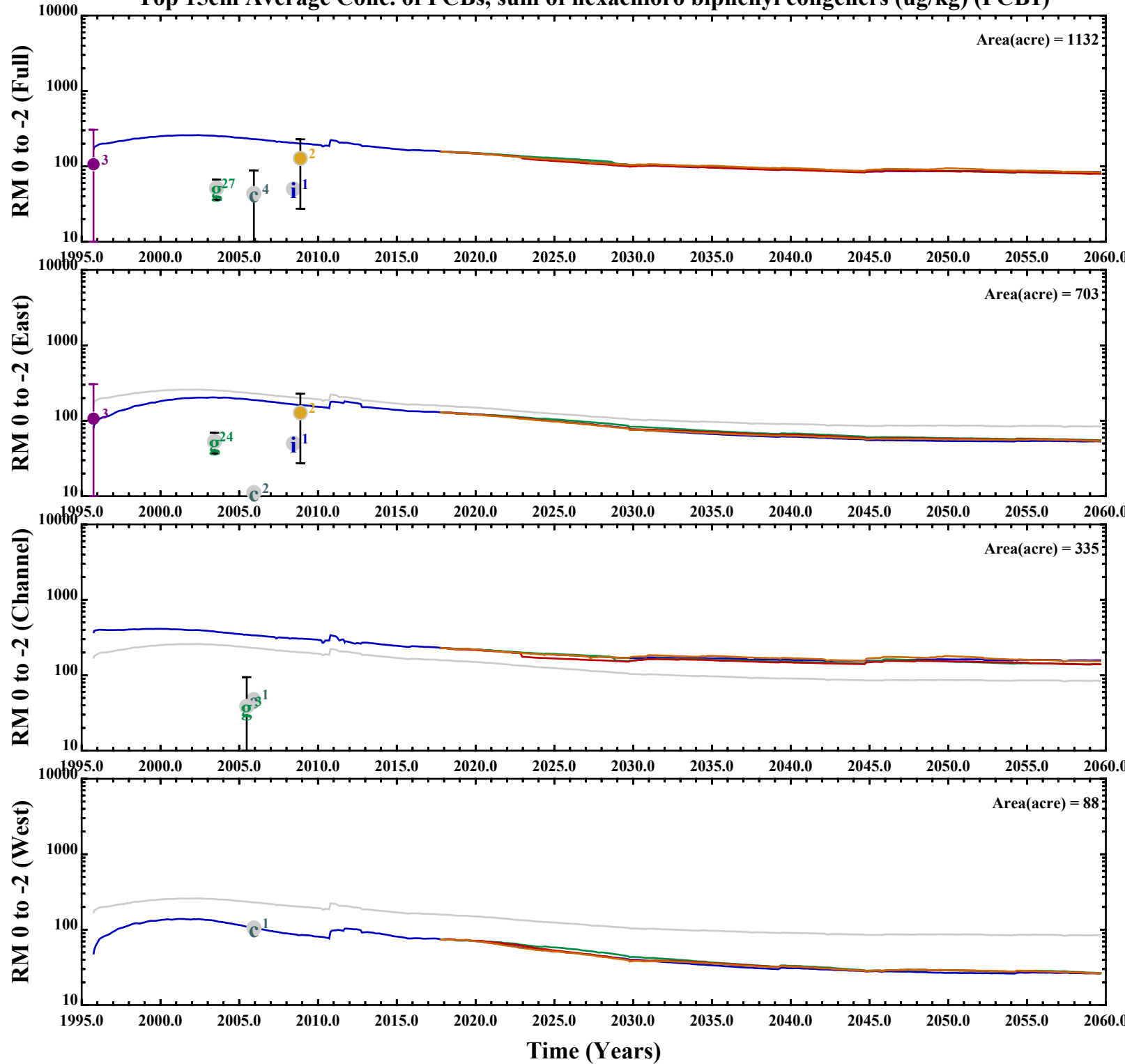
# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



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  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



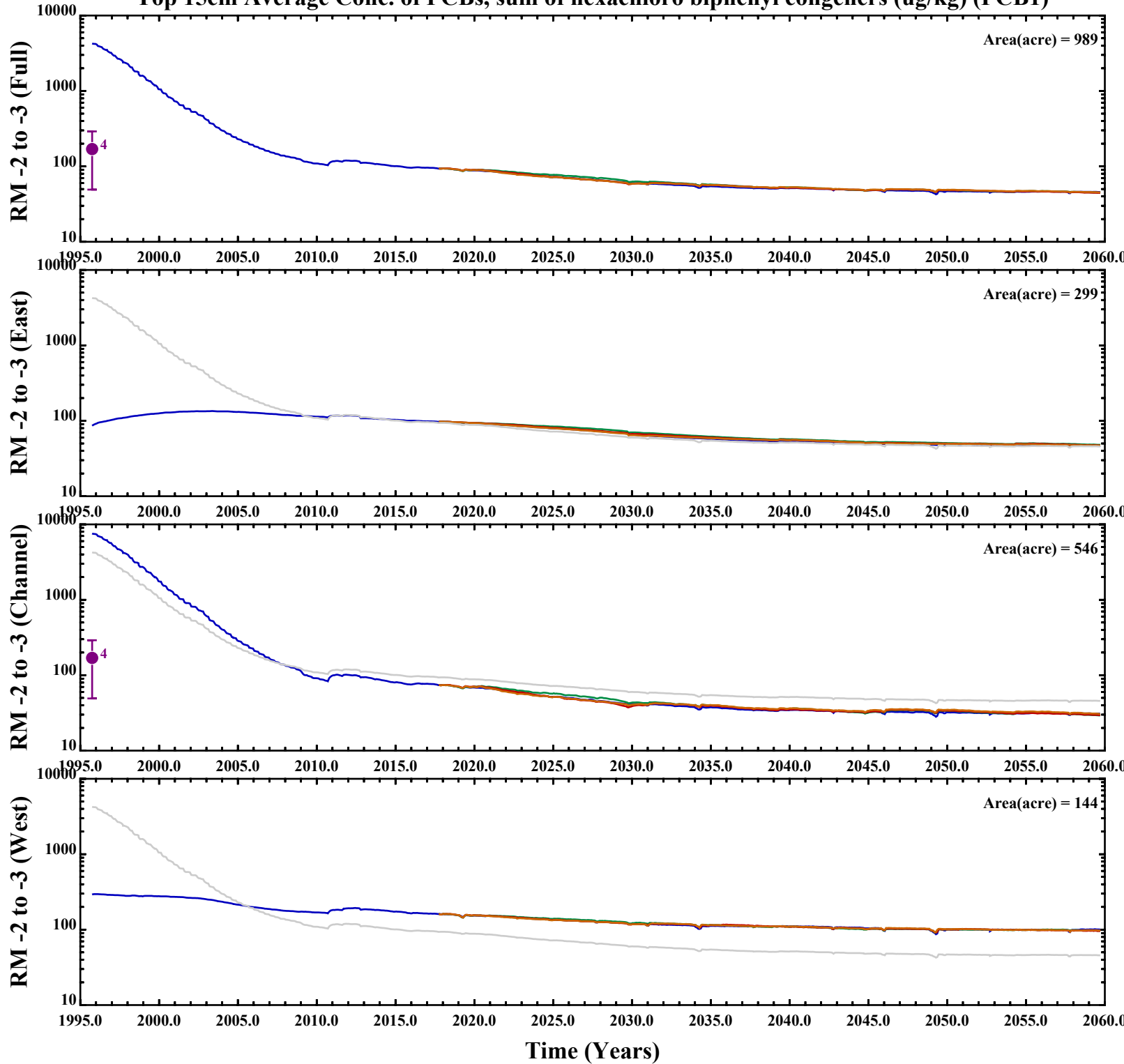
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

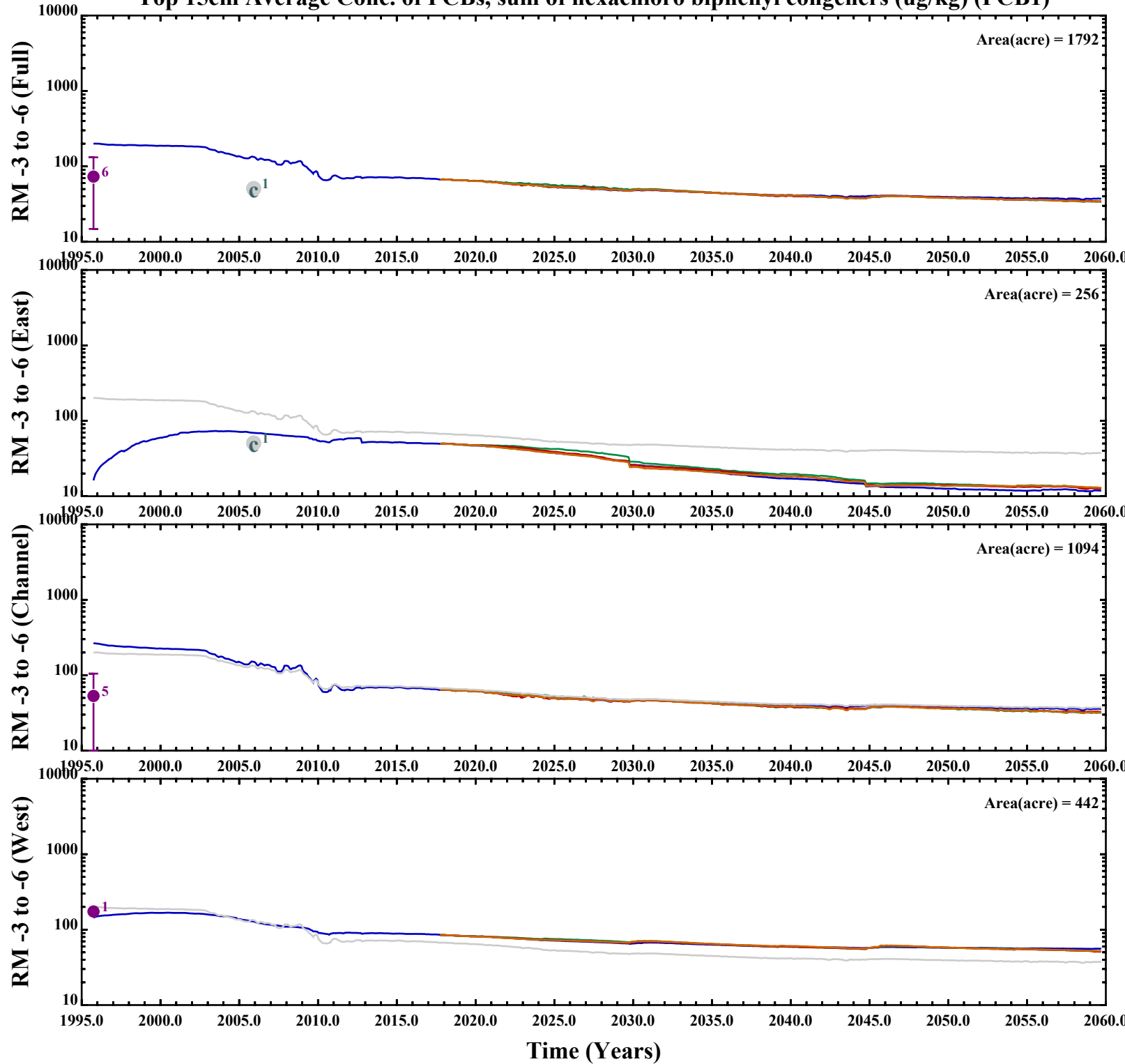
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- NOAA NS&T Hudson-Raritan Phase II, 1993
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

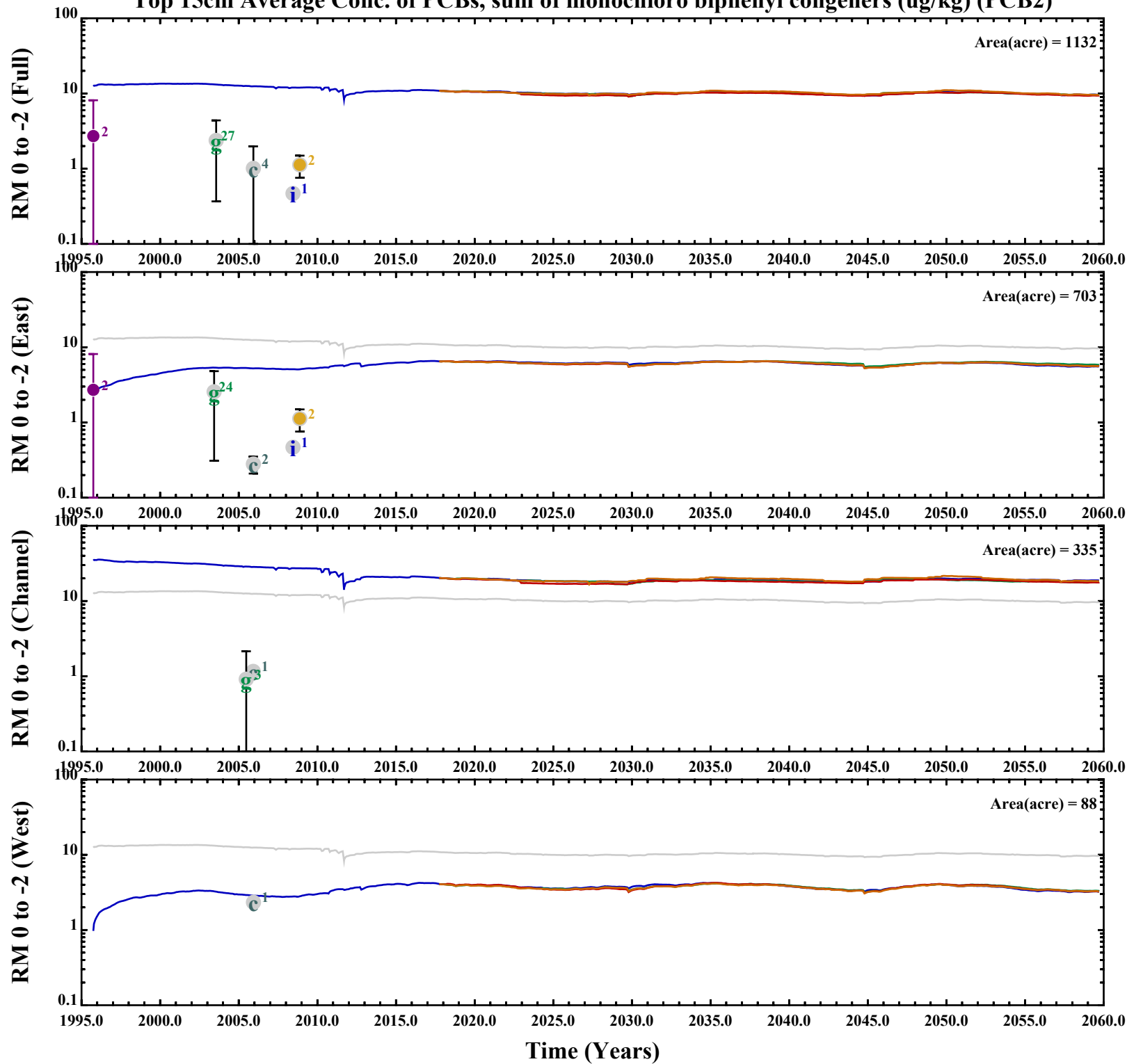
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 2010 CPG Benthic Sediment Sampling
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- 2012 CDMSmith Background Benthic Sediment
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

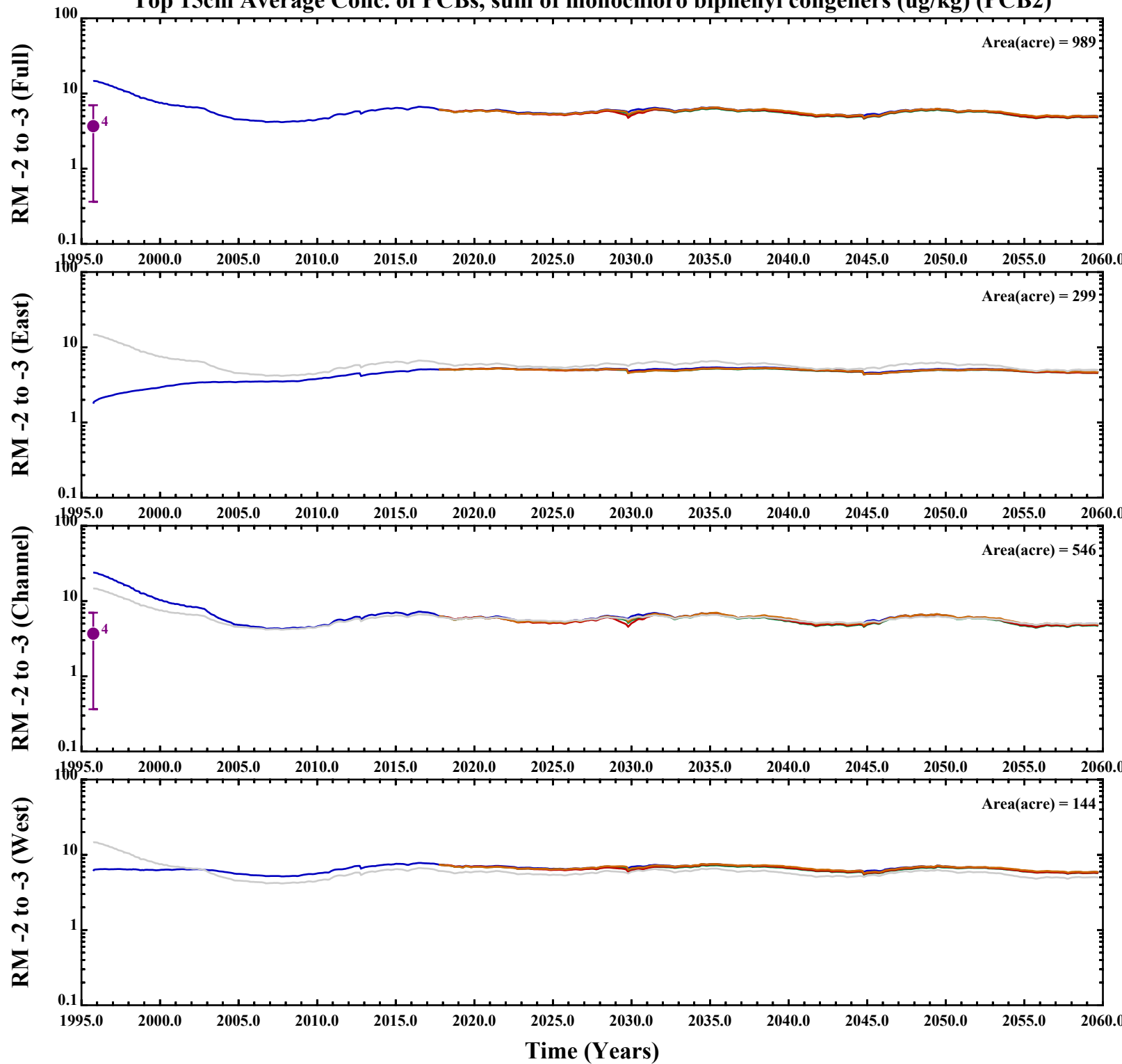
# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
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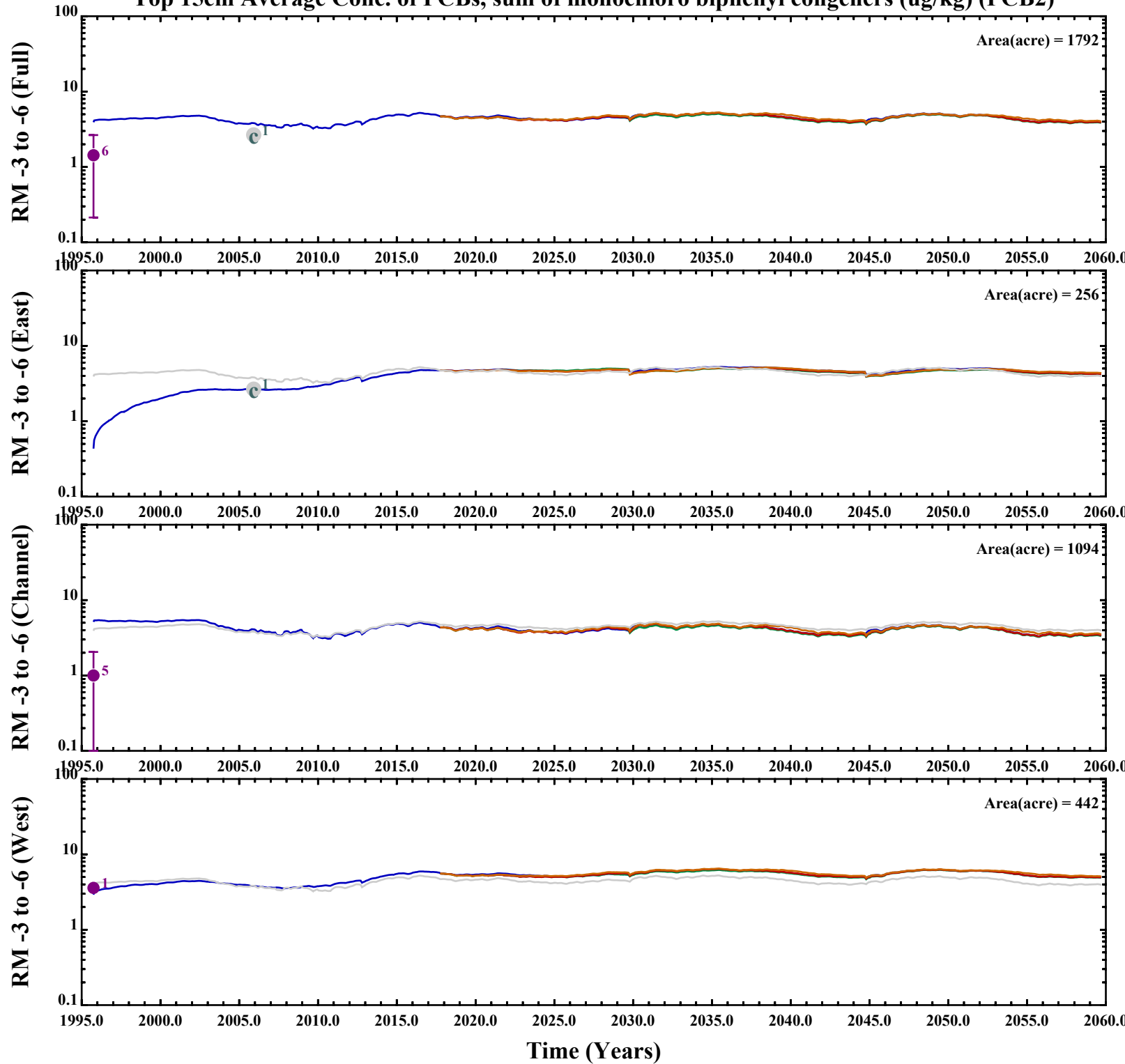
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



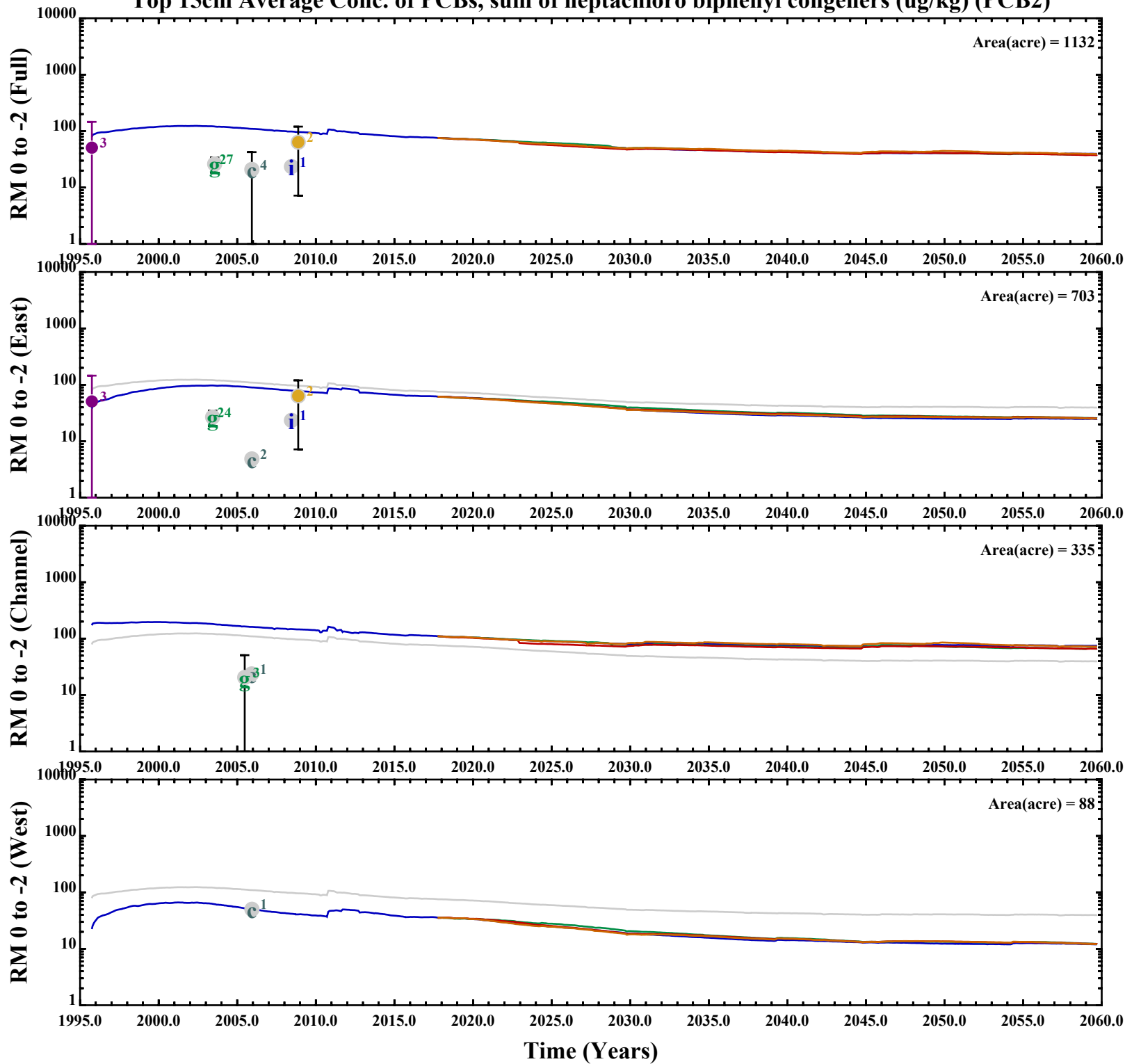
- Data used for ICs
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# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



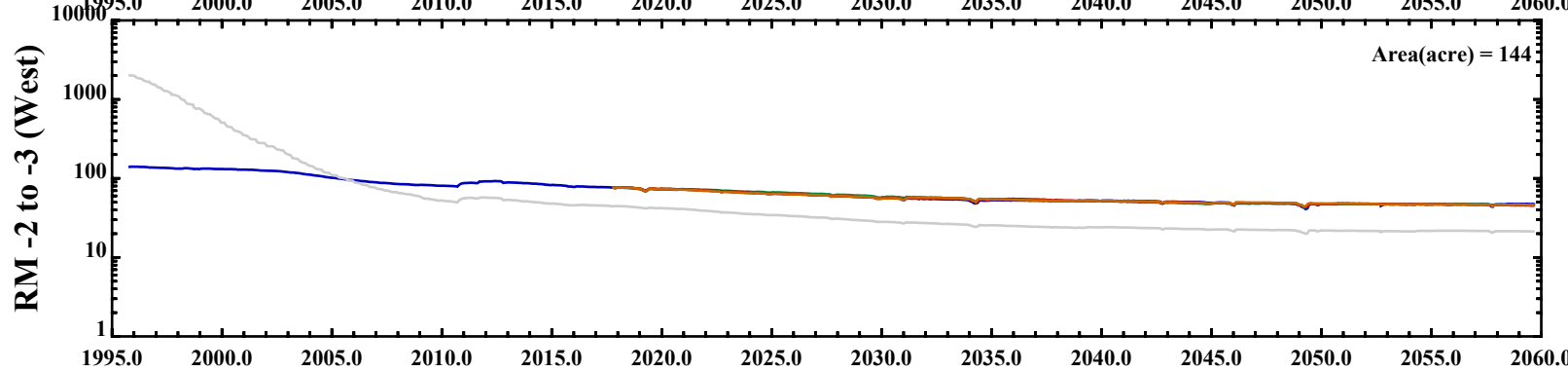
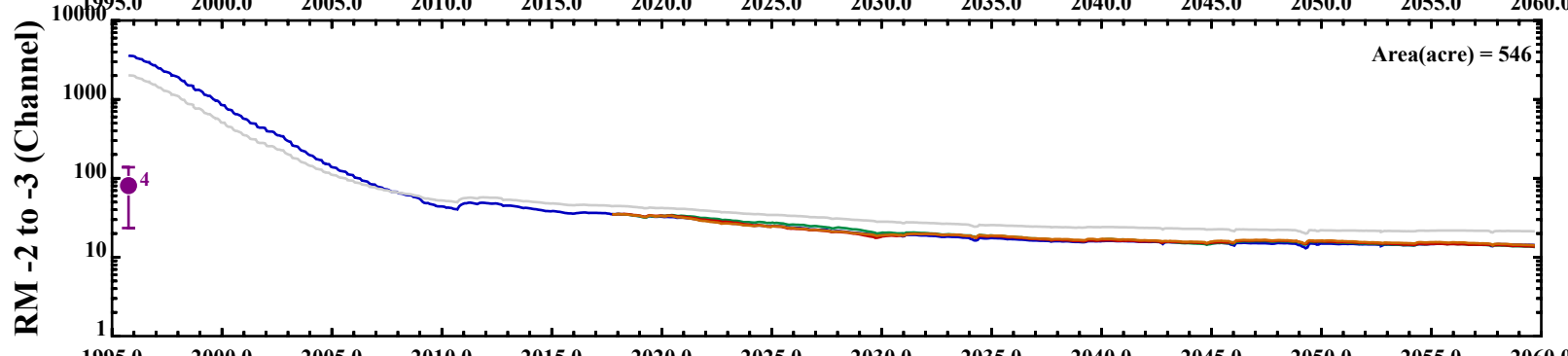
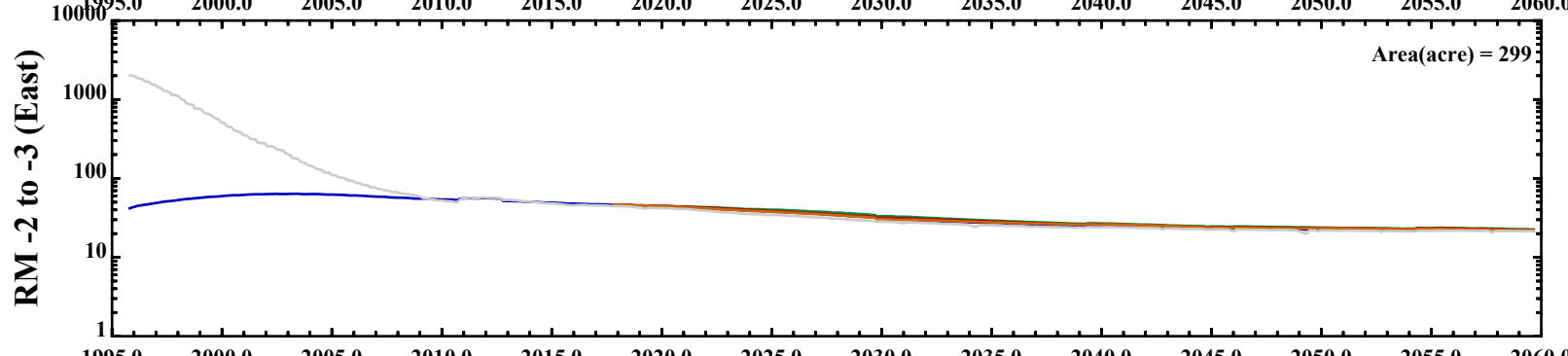
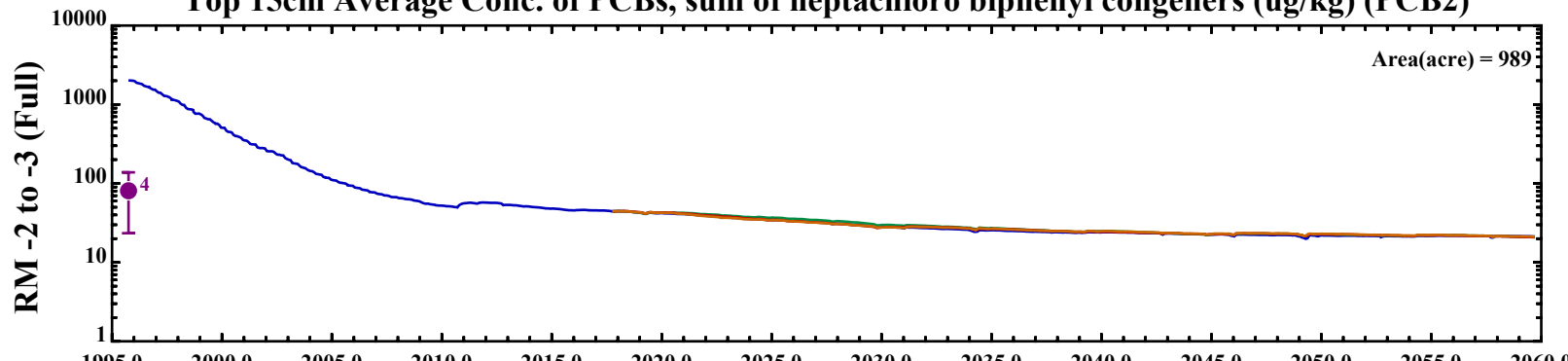
- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
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  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
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  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
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  - Y 1999/2000 Minish Park Monitoring Program
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  - b 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
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  - m 2009 CPG Benthic Sediment Study
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  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)

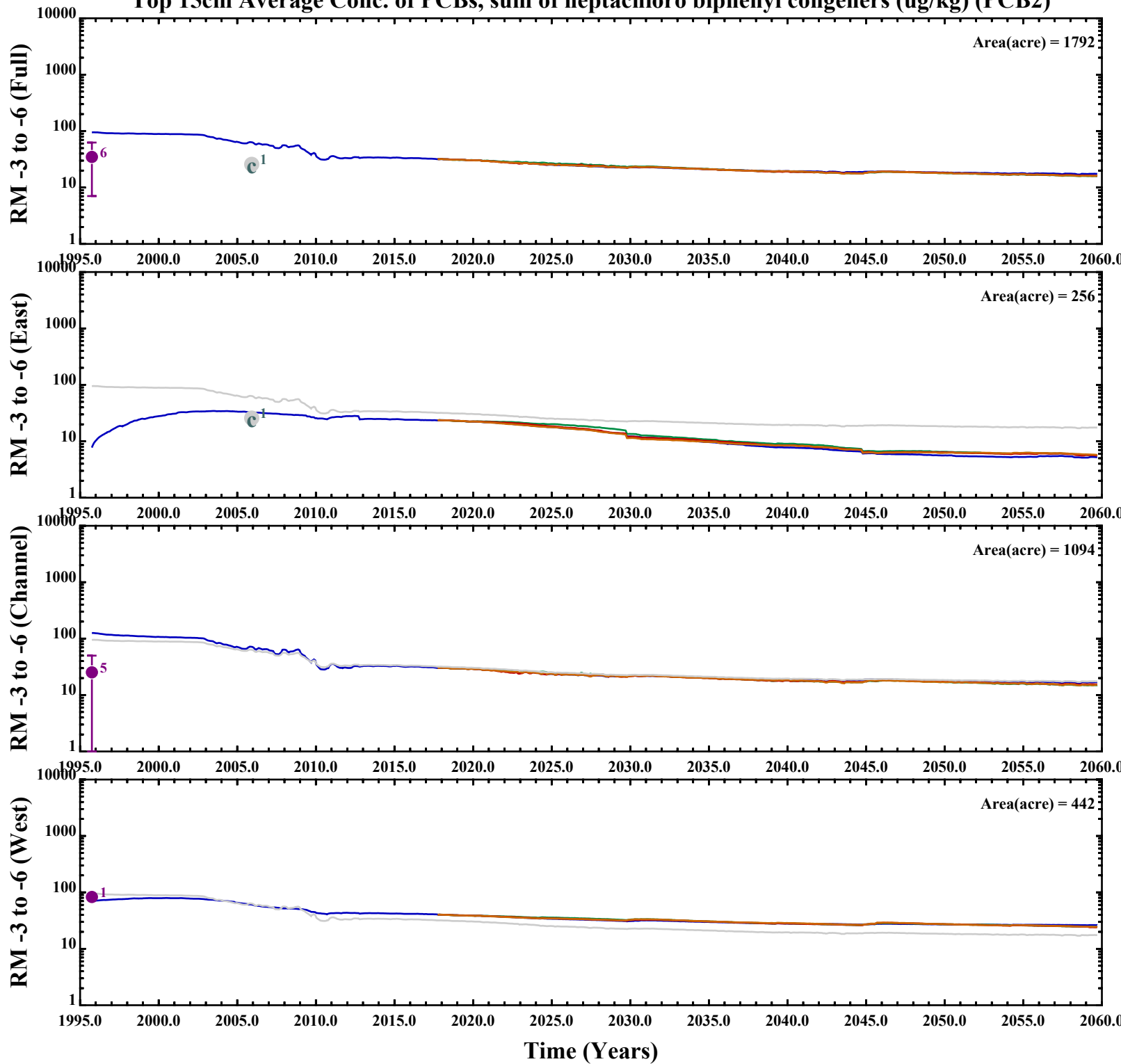


Time (Years)

- Data used for ICs
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  - B EPA EMAP 90-92
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  - J REMAP, 1993
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  - q 2010 USEPA-CDM Benthic Oversight
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  - r 2012 CDMSmith Background Benthic Sediment
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  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



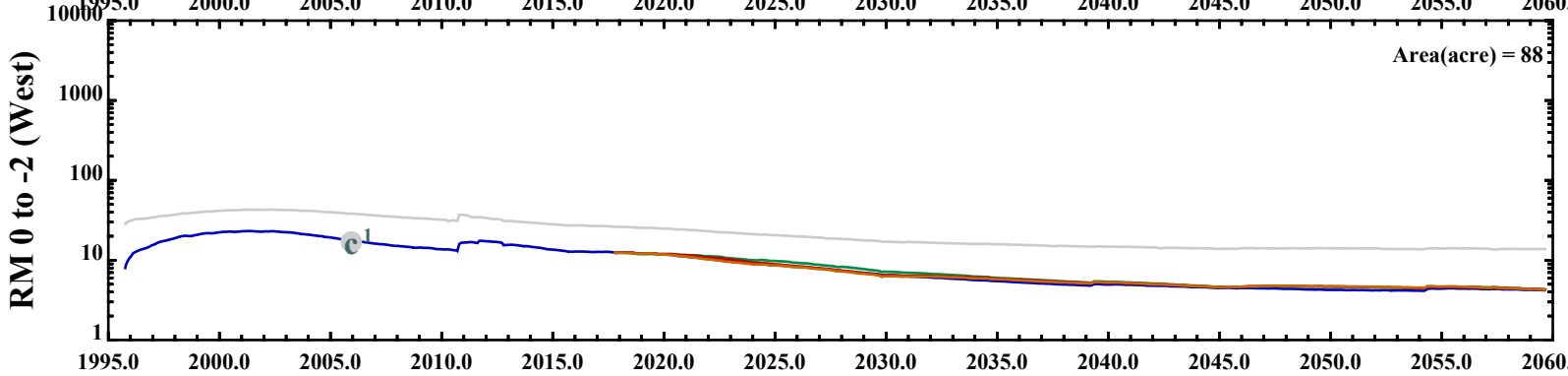
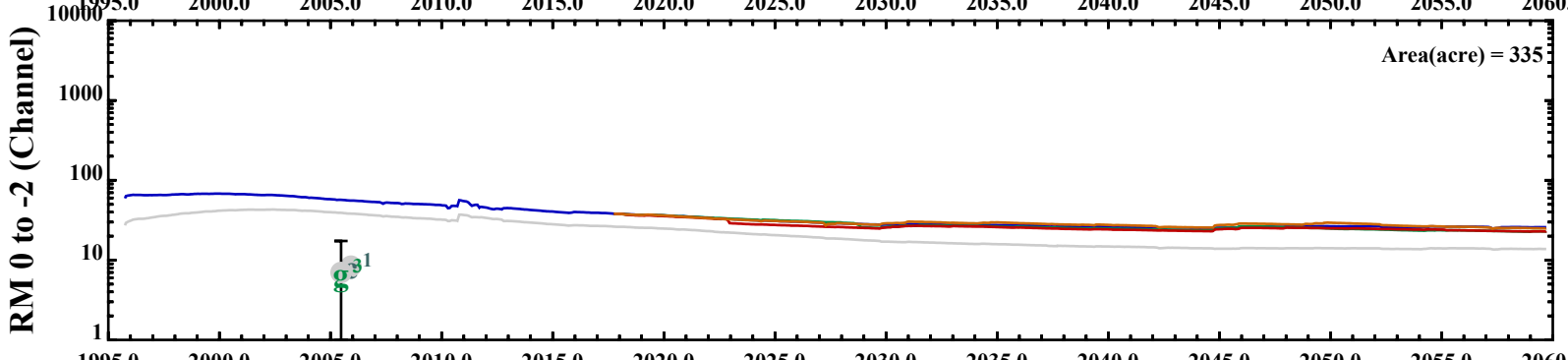
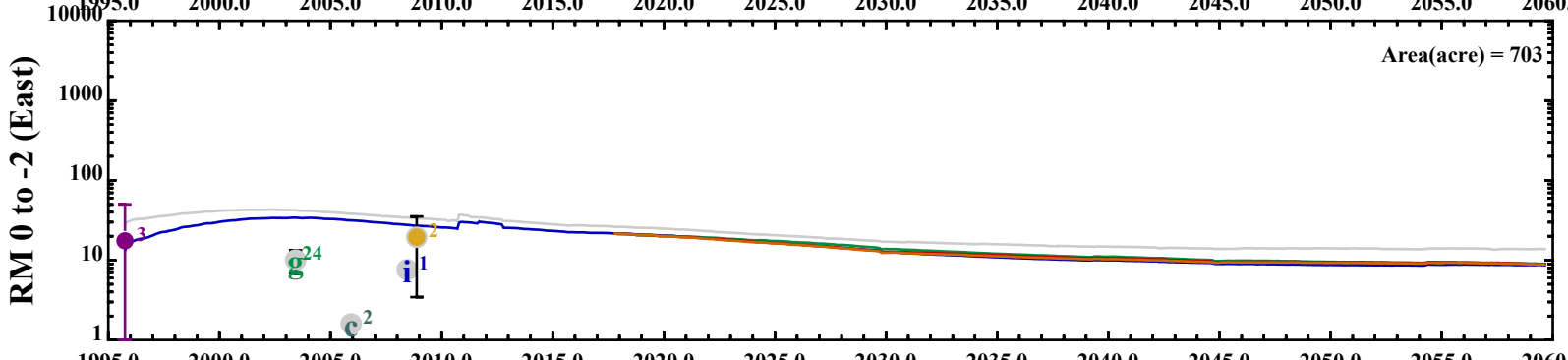
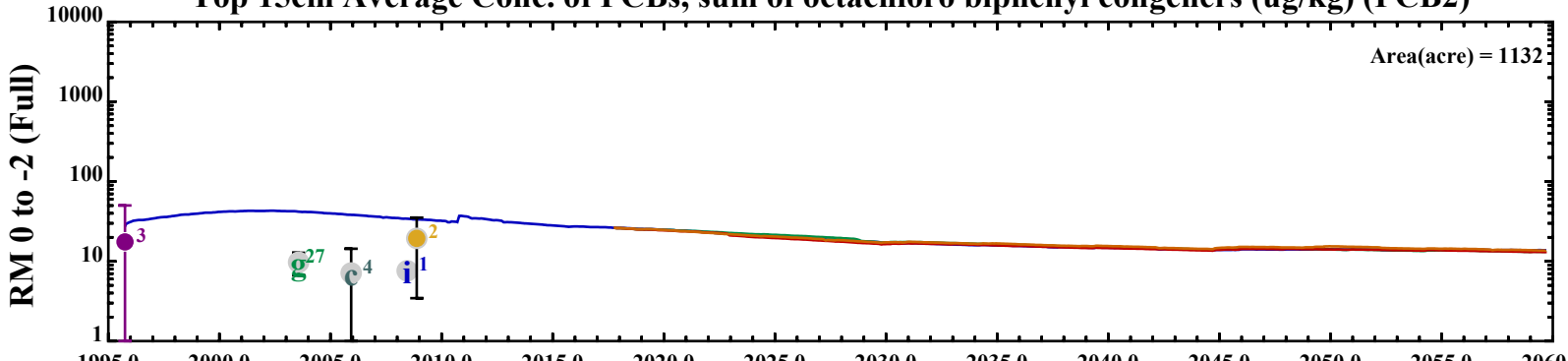
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
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- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
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- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

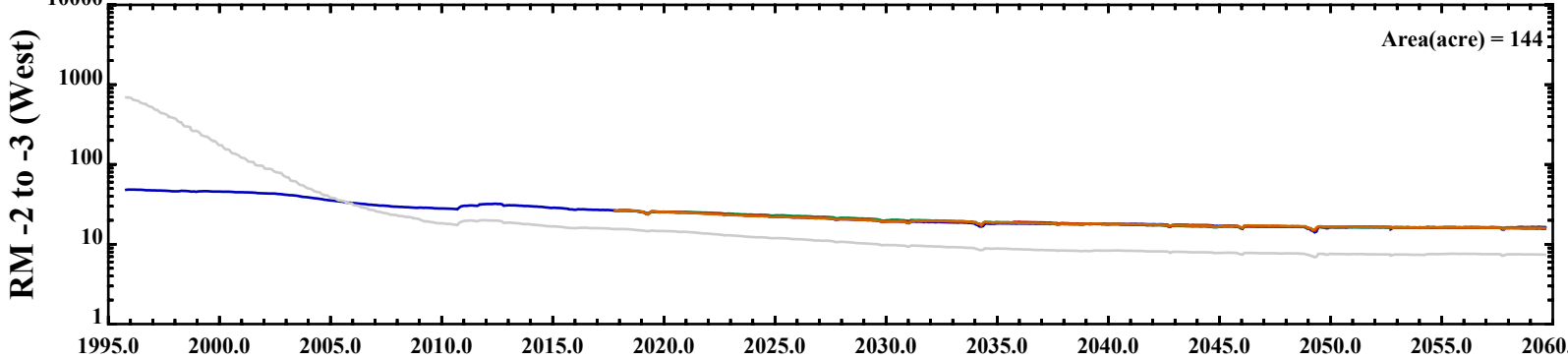
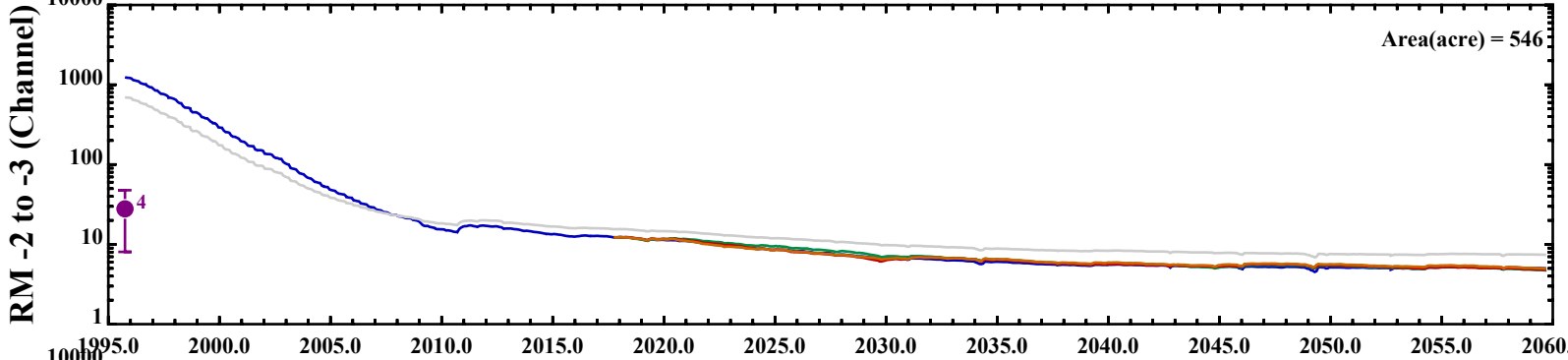
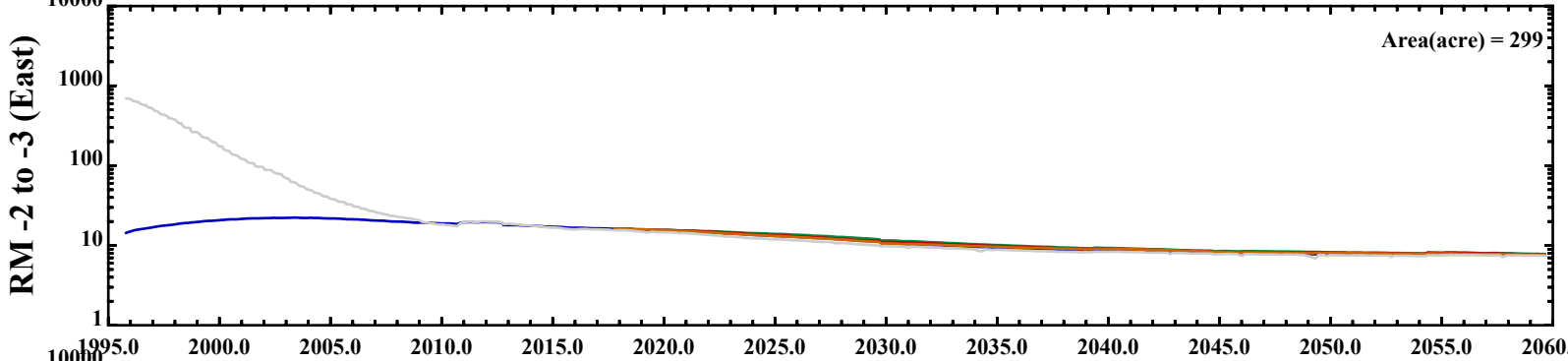
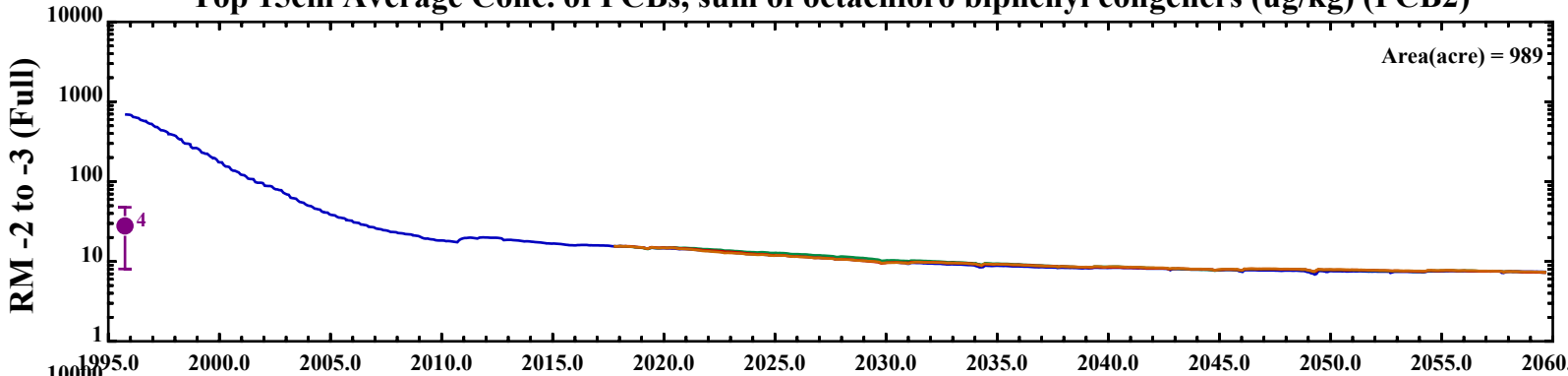
# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
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  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
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  - M 1995 RI Sampling Program
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  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

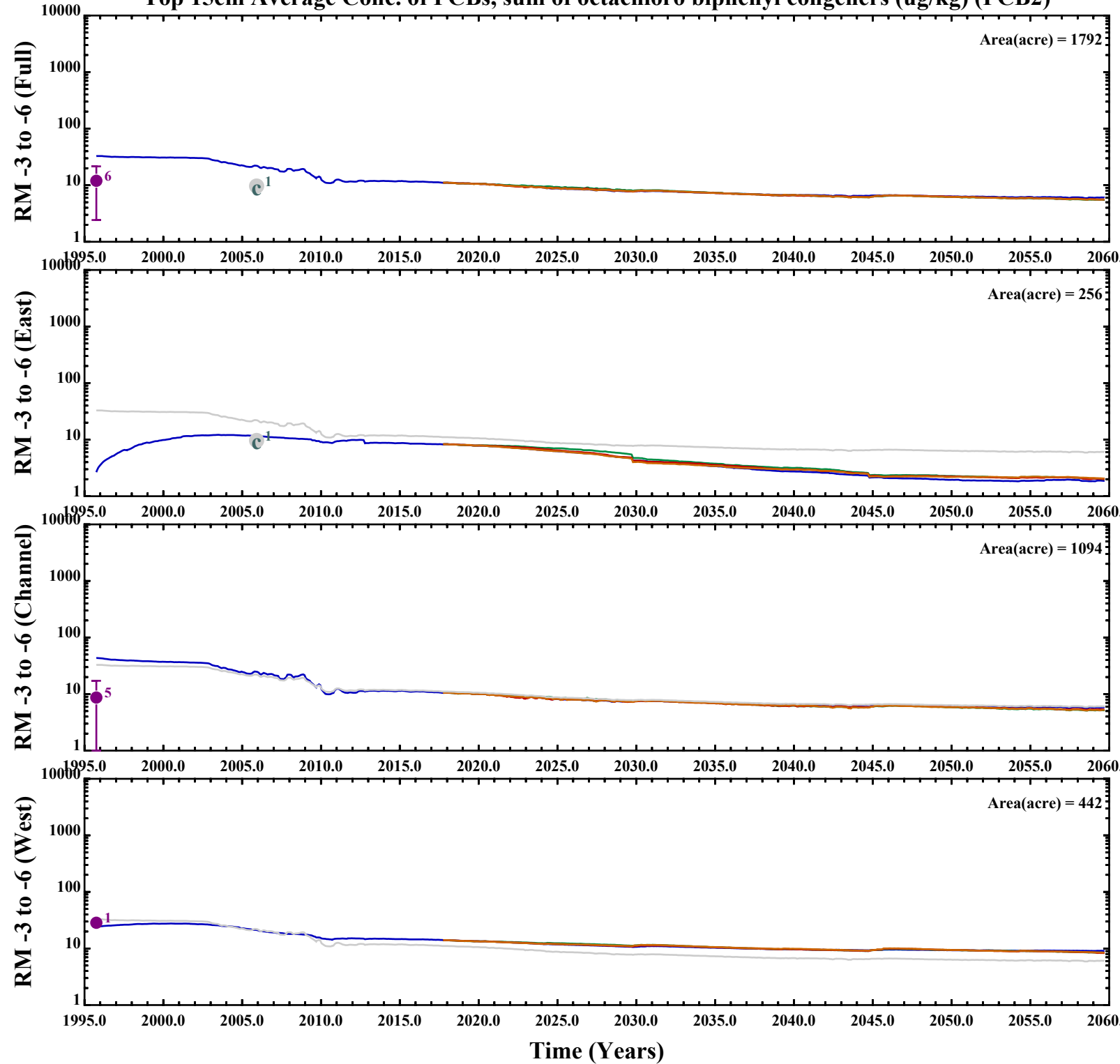
# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
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  - 1992 Core Sediment Investigation
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  - 1993 USEPA Surficial Sediment Program
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  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 2011 CPG River Mile 10.9 Data
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  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

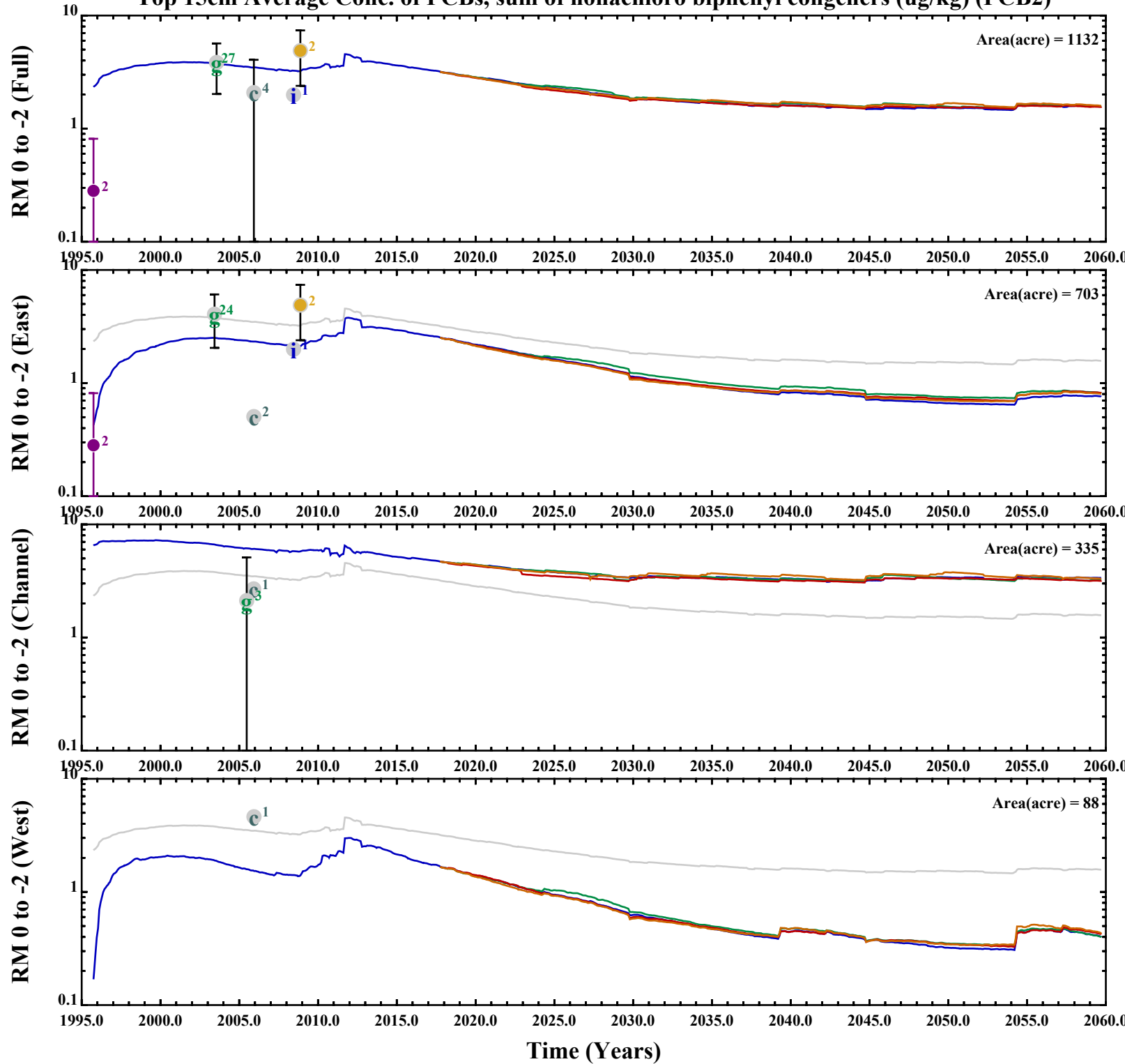
# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
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- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

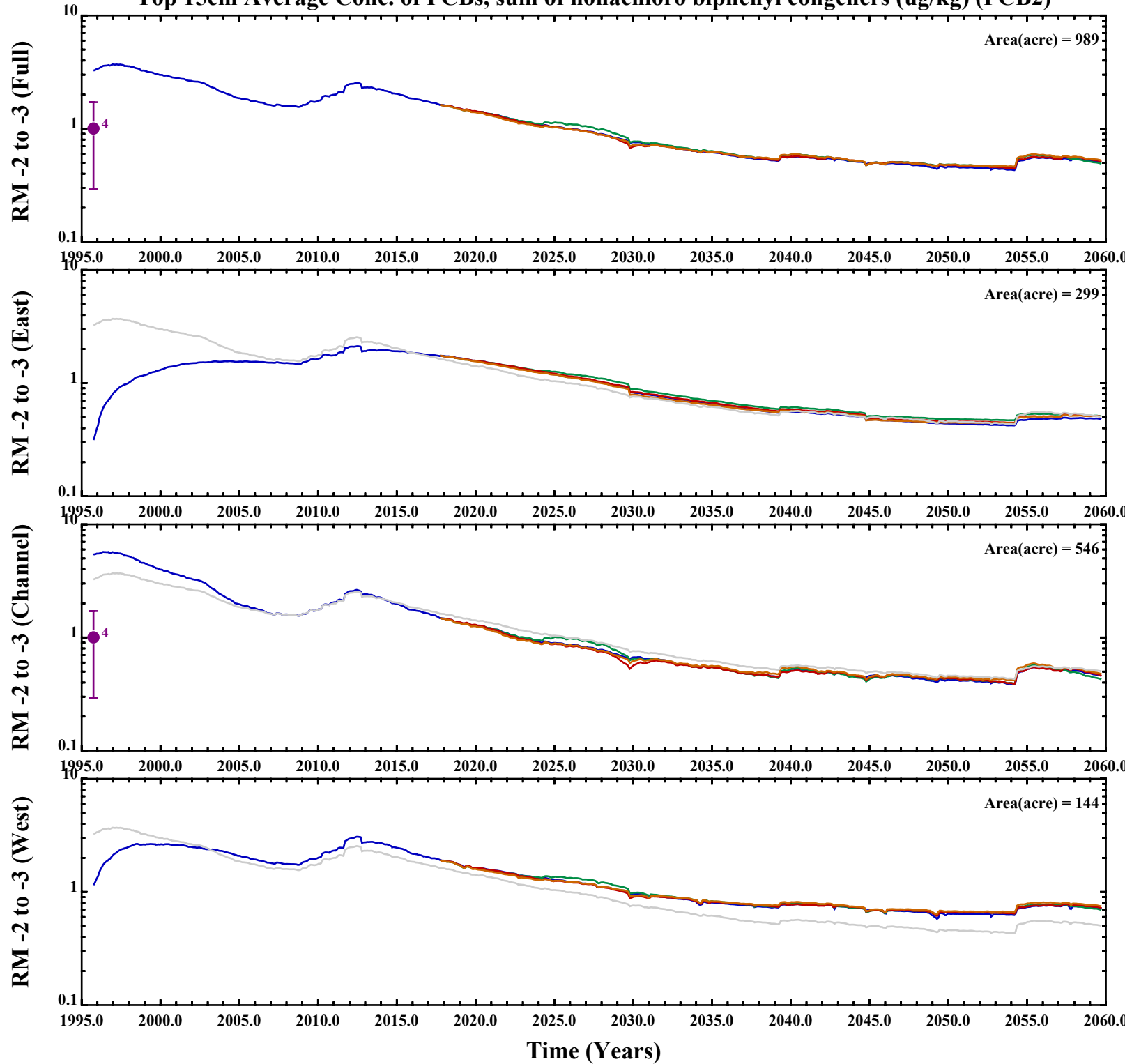
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



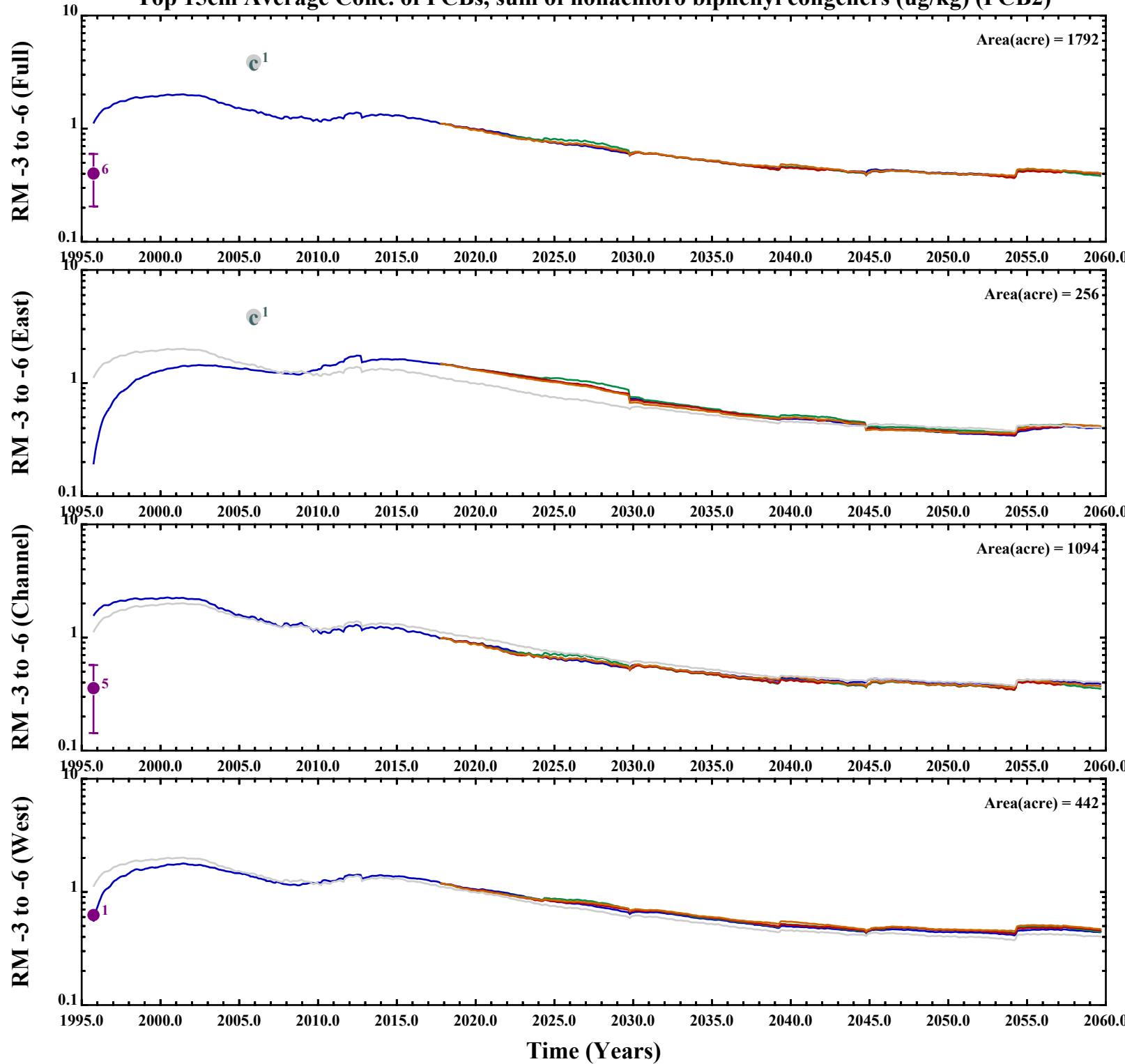
- Data used for ICs
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  - C 1991 Core Sediment Investigation
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  - J REMAP, 1993
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  - Y 1999/2000 Minish Park Monitoring Program
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  - g 1999-2006 Honeywell Intl Sampling
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- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
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# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
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  - 1991 Core Sediment Investigation
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  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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- No Action Gradient IC, Reach Scale Up
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  - Focused Capping
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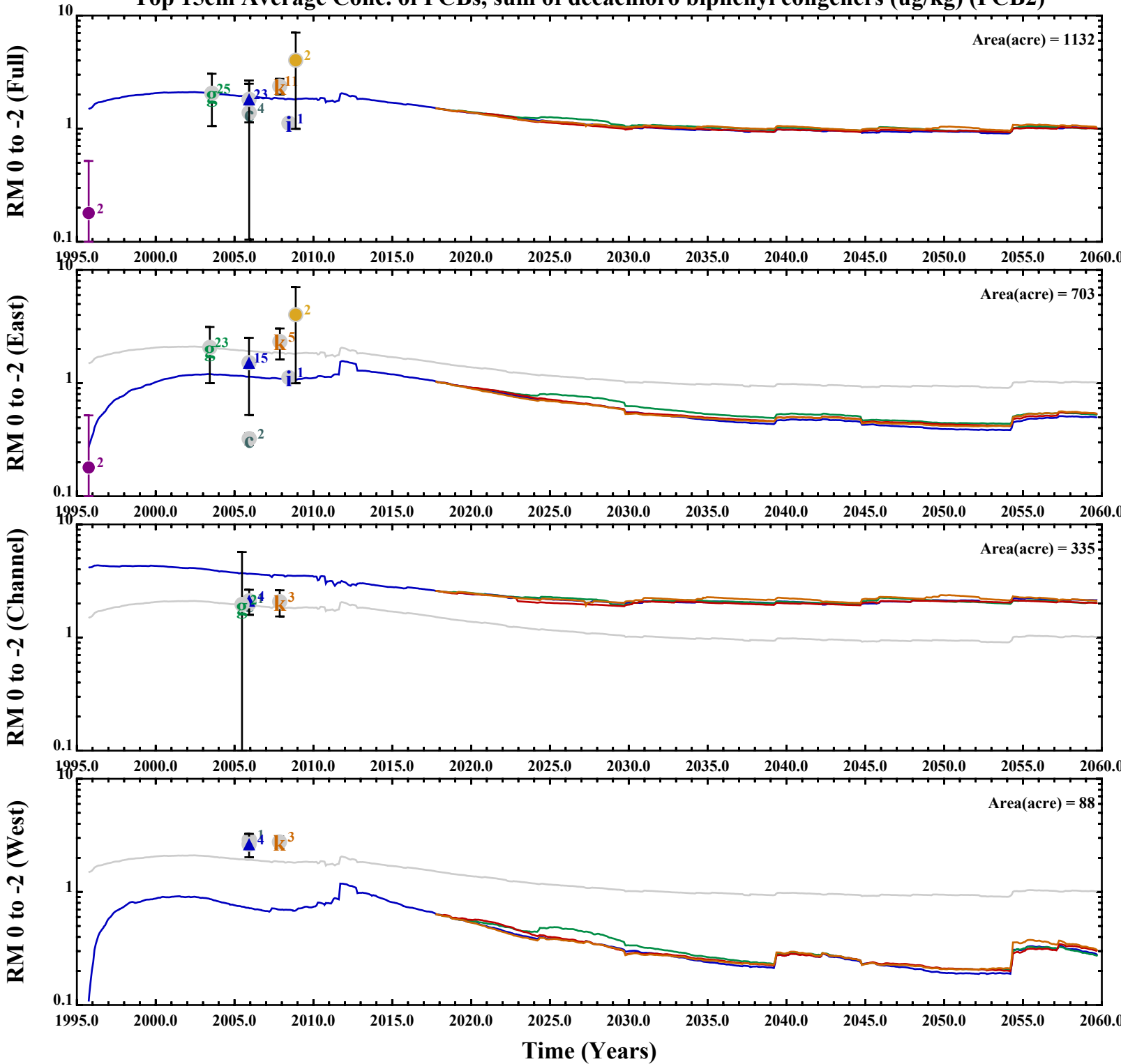
# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



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- 2011 CPG River Mile 10.9 Data
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- ▼ 2012 CPG Low Res Coring Supplemental
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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

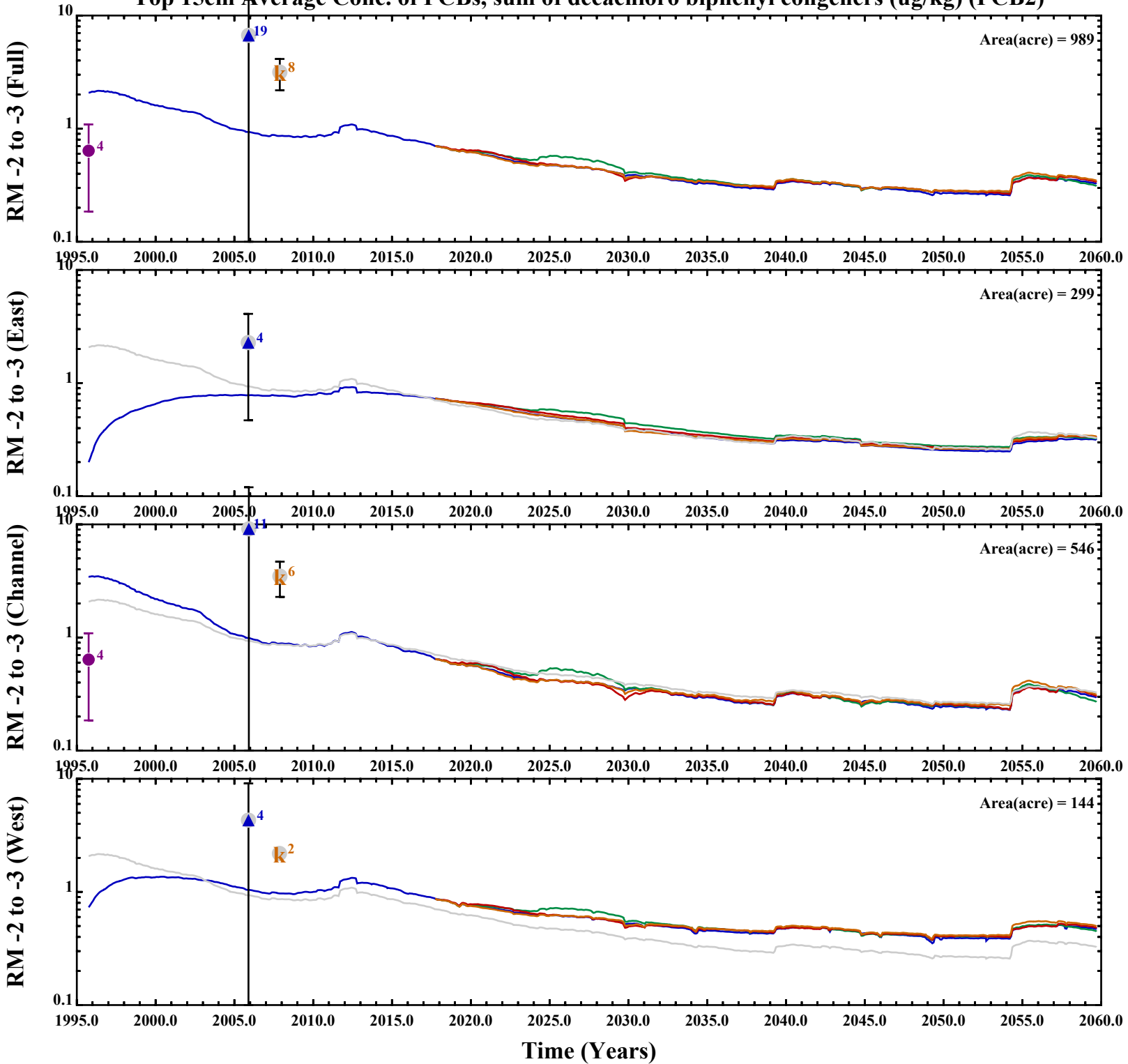
# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



- Data used for ICs
  - A 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
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  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
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  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - 2006-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

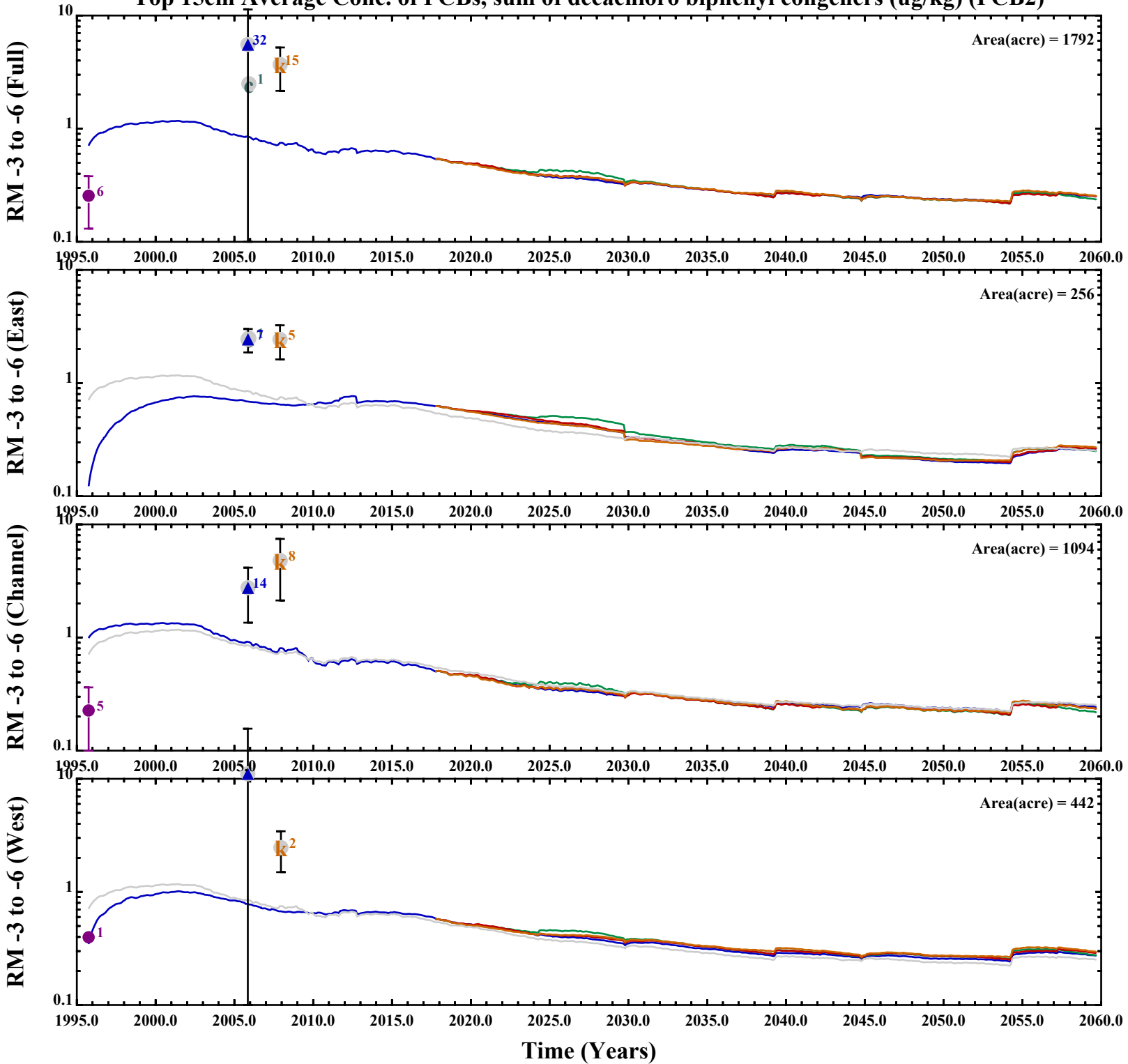


# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

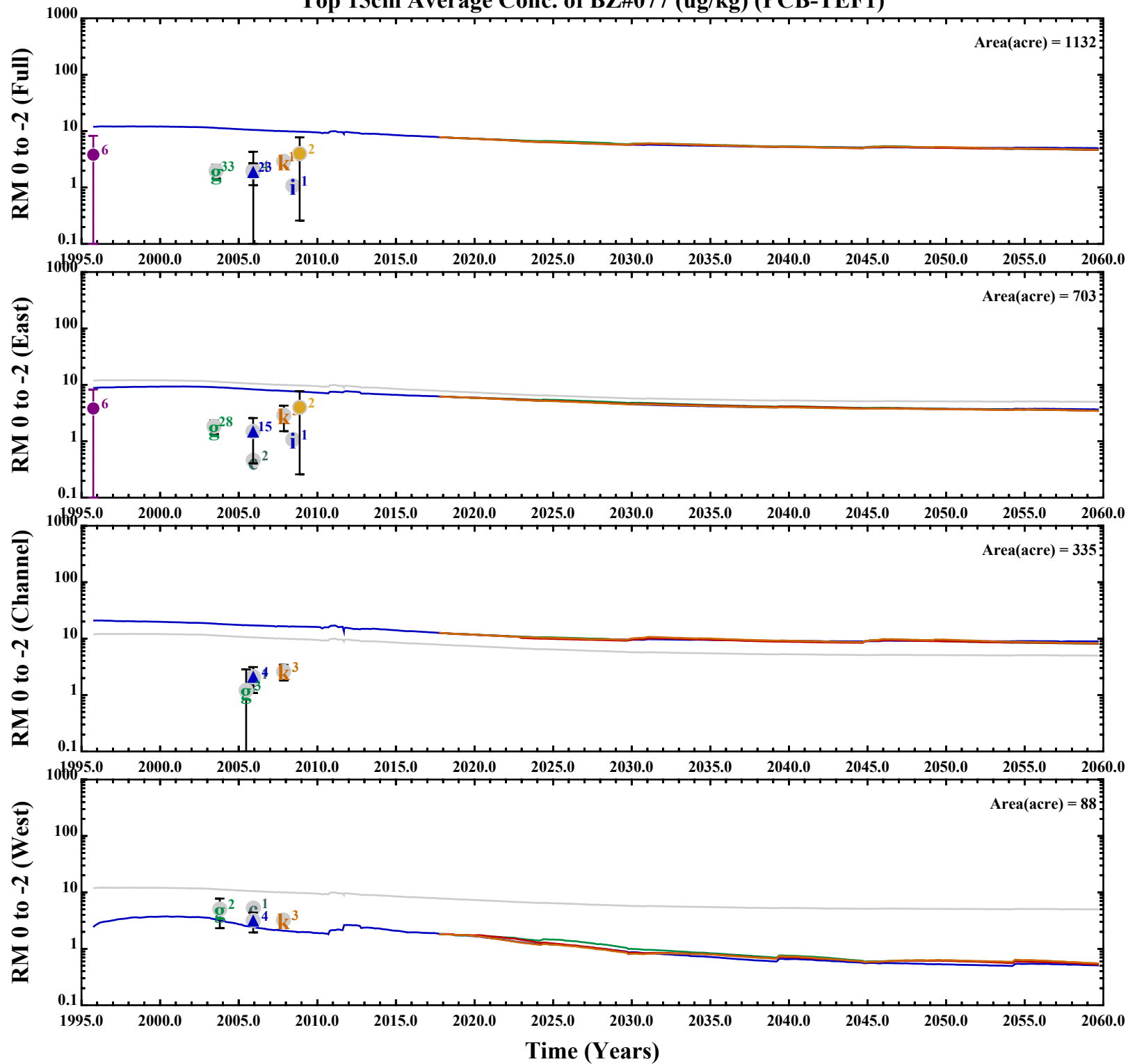


- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

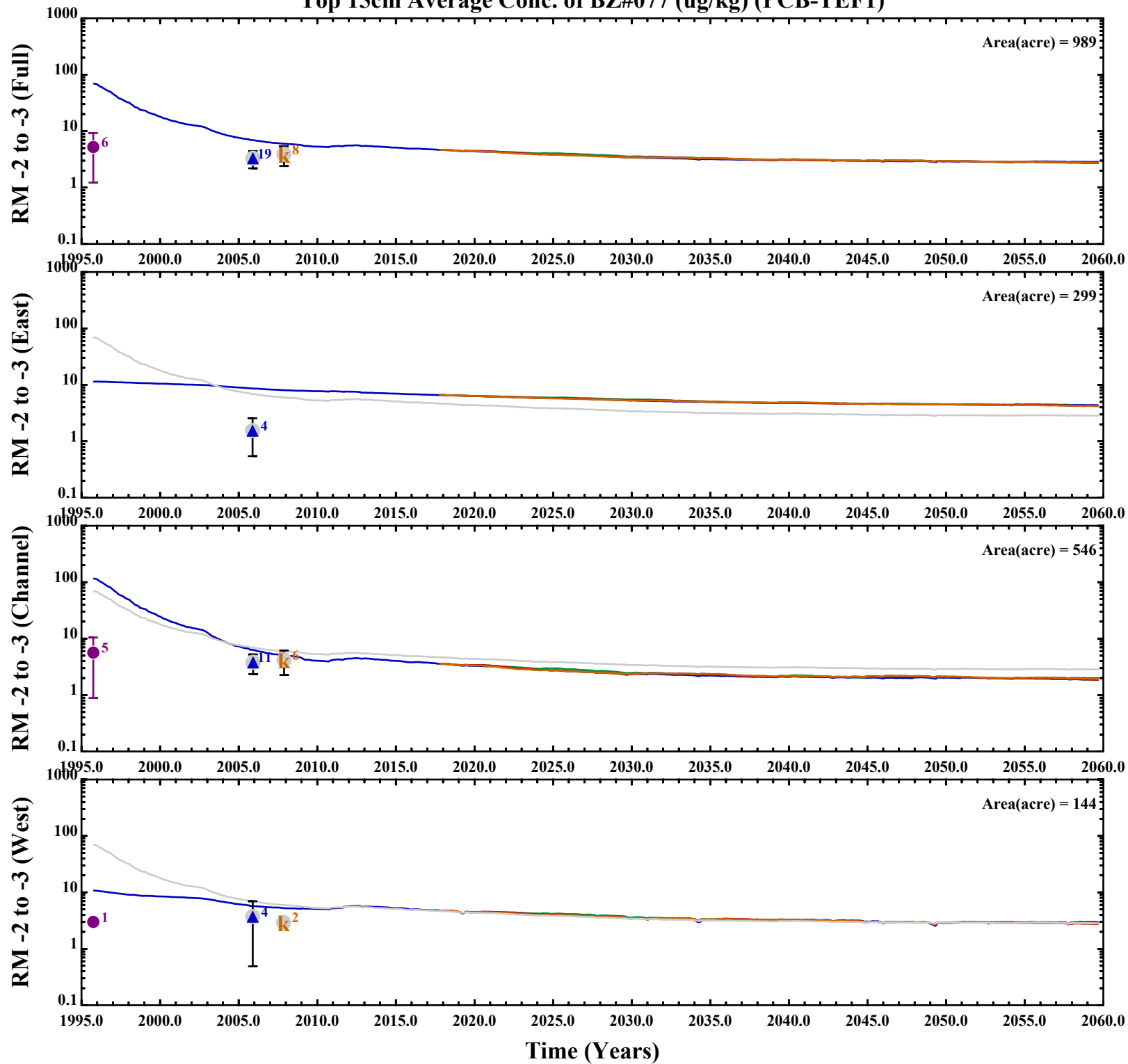


# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

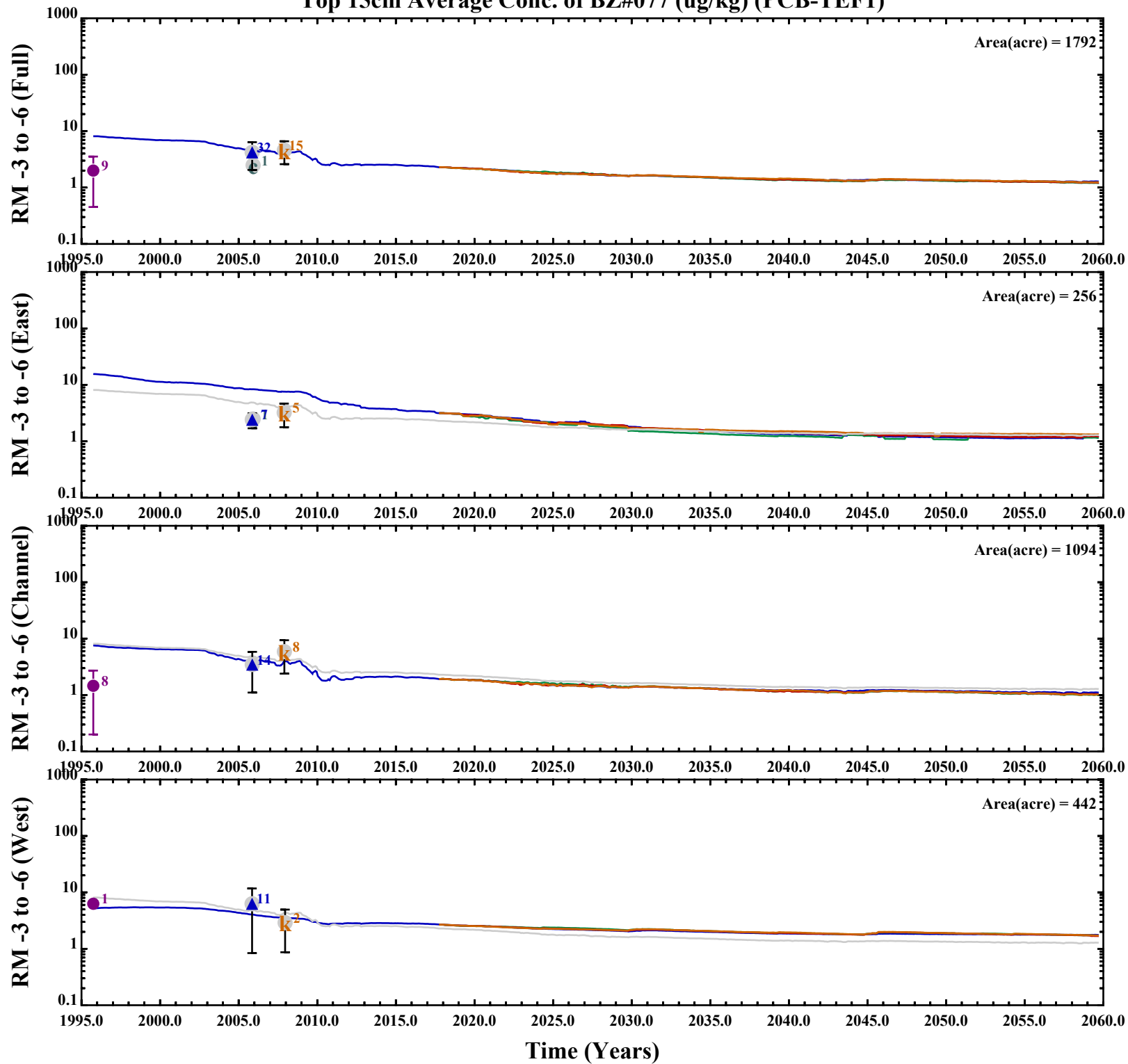
# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

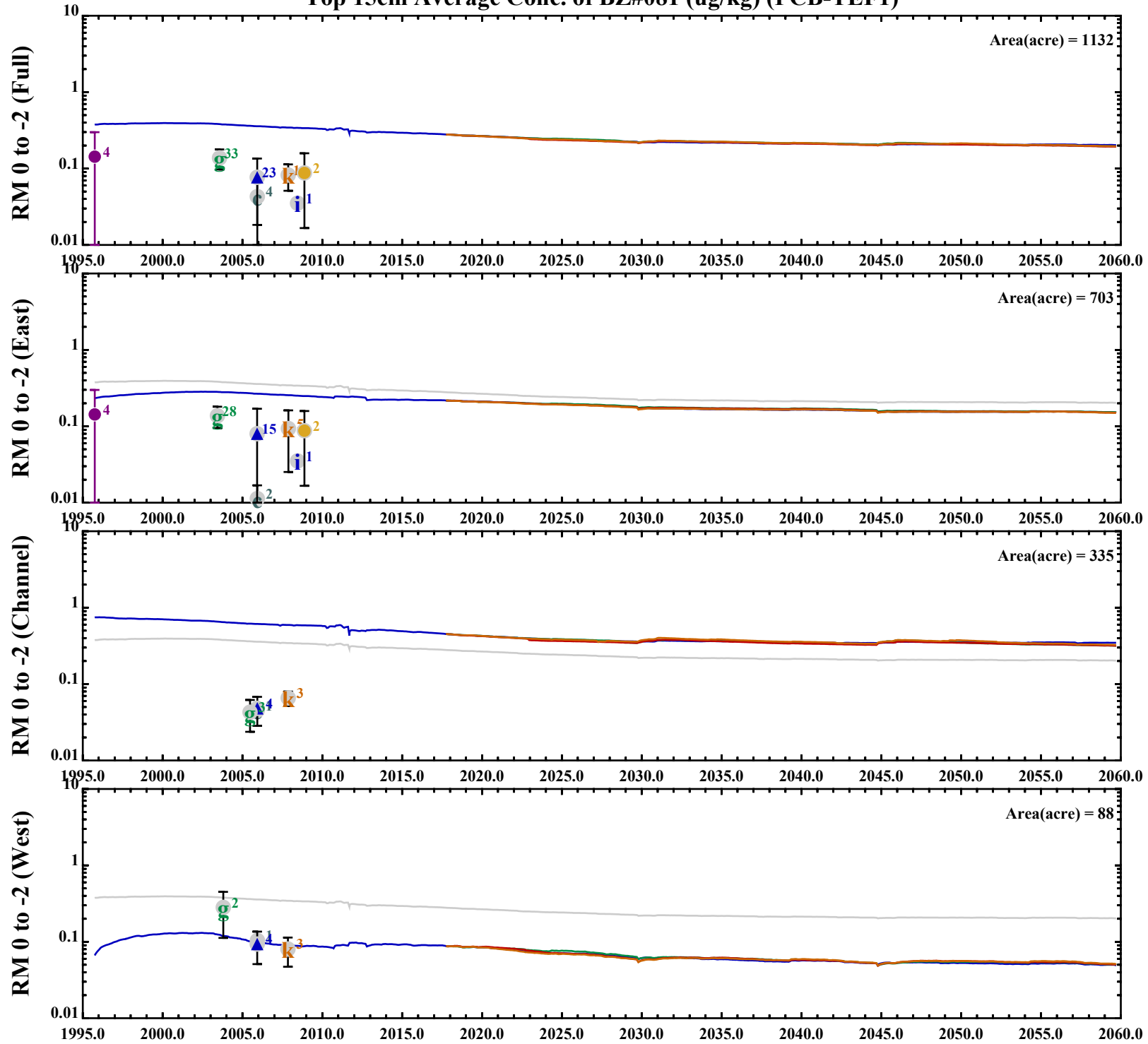
# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

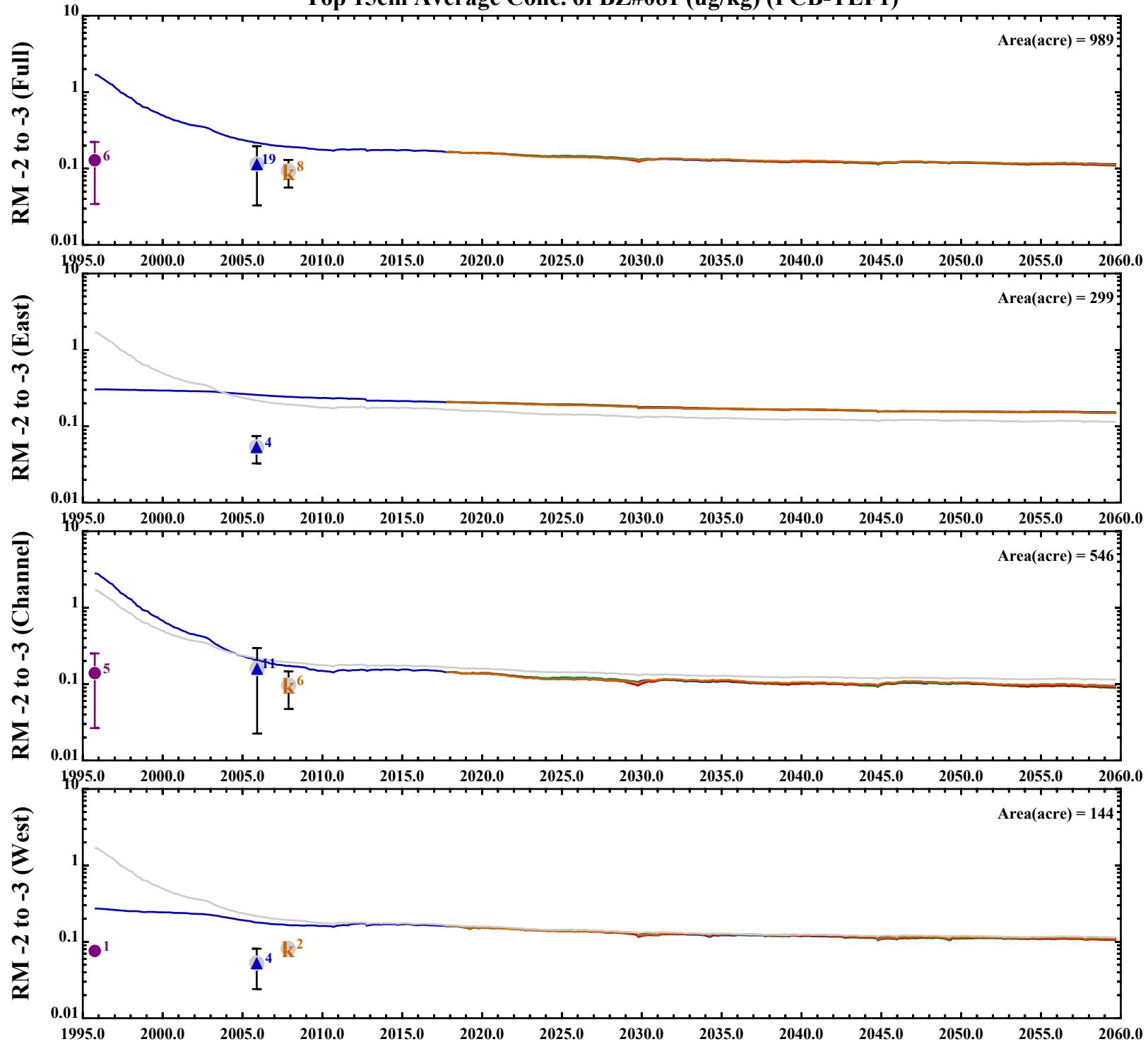
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1994 NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)

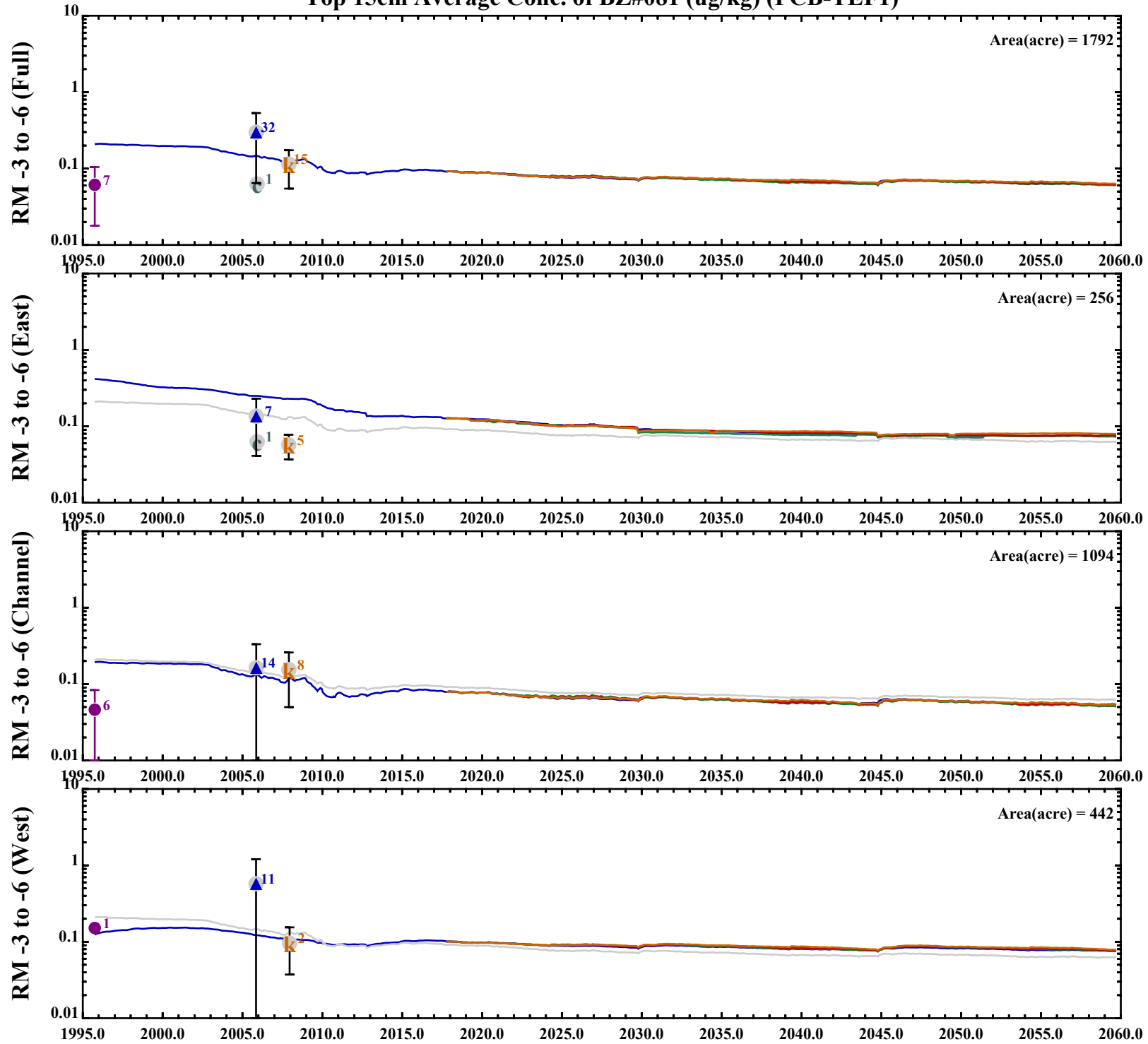


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
- 1999 Late Summer/Early Fall ESP Sampling Program
- 1999 Prelim Toxicity Identification Eval
- 1999/2000 Minish Park Monitoring Program
- 2000 Spring ESP Sampling Program
- 2000 Toxicity Identification Evaluation
- ▲ 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

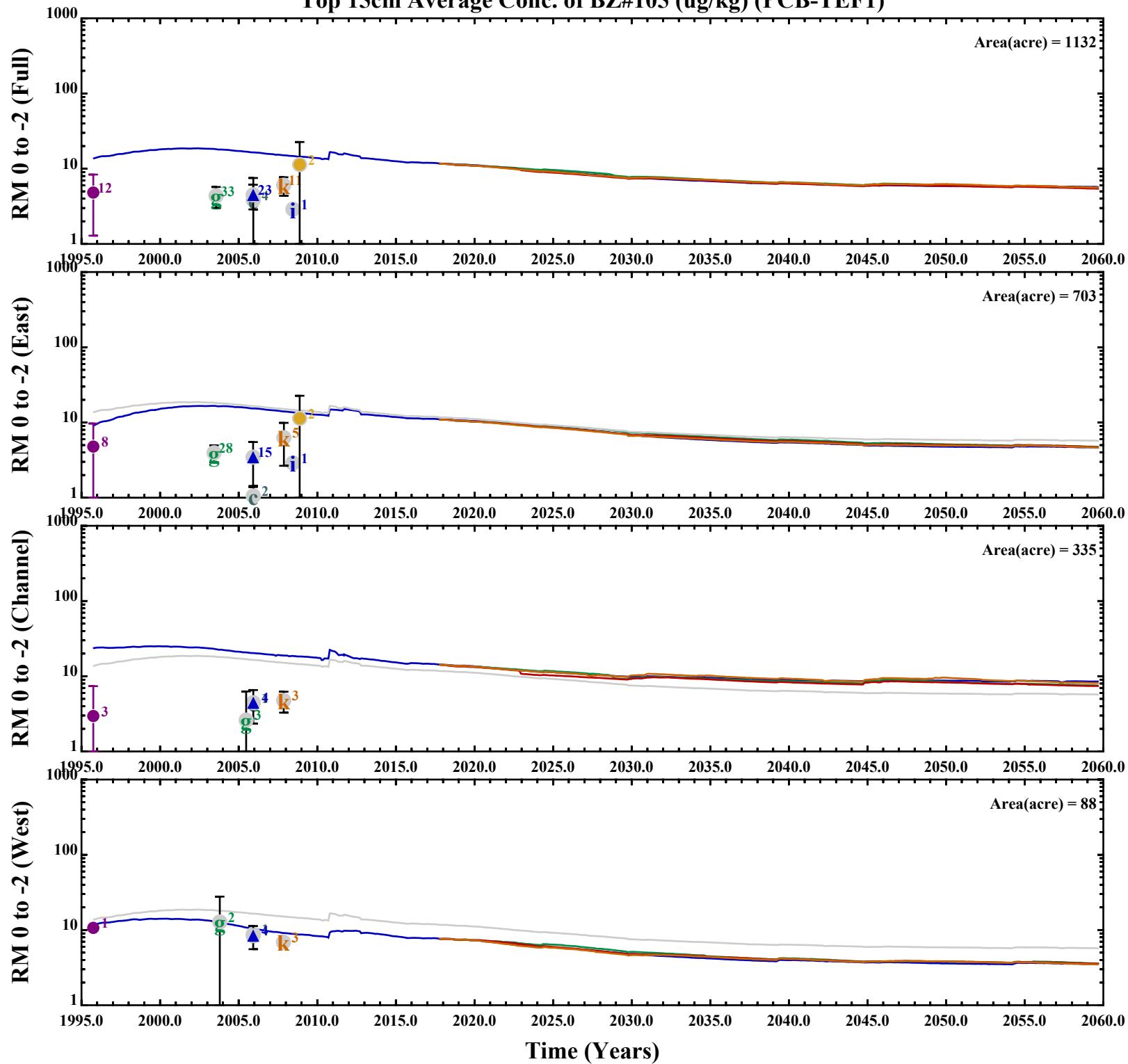
# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

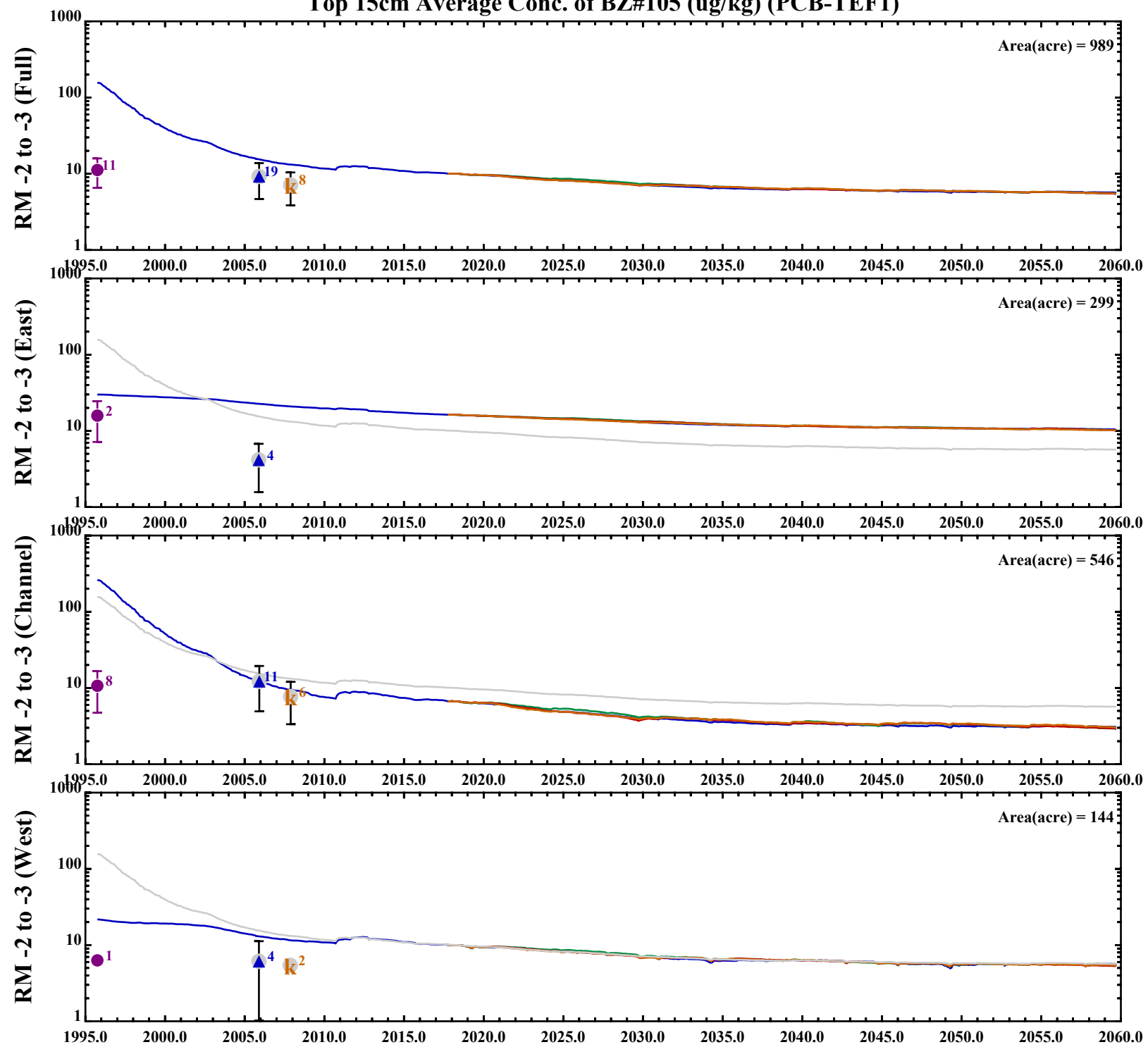


# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



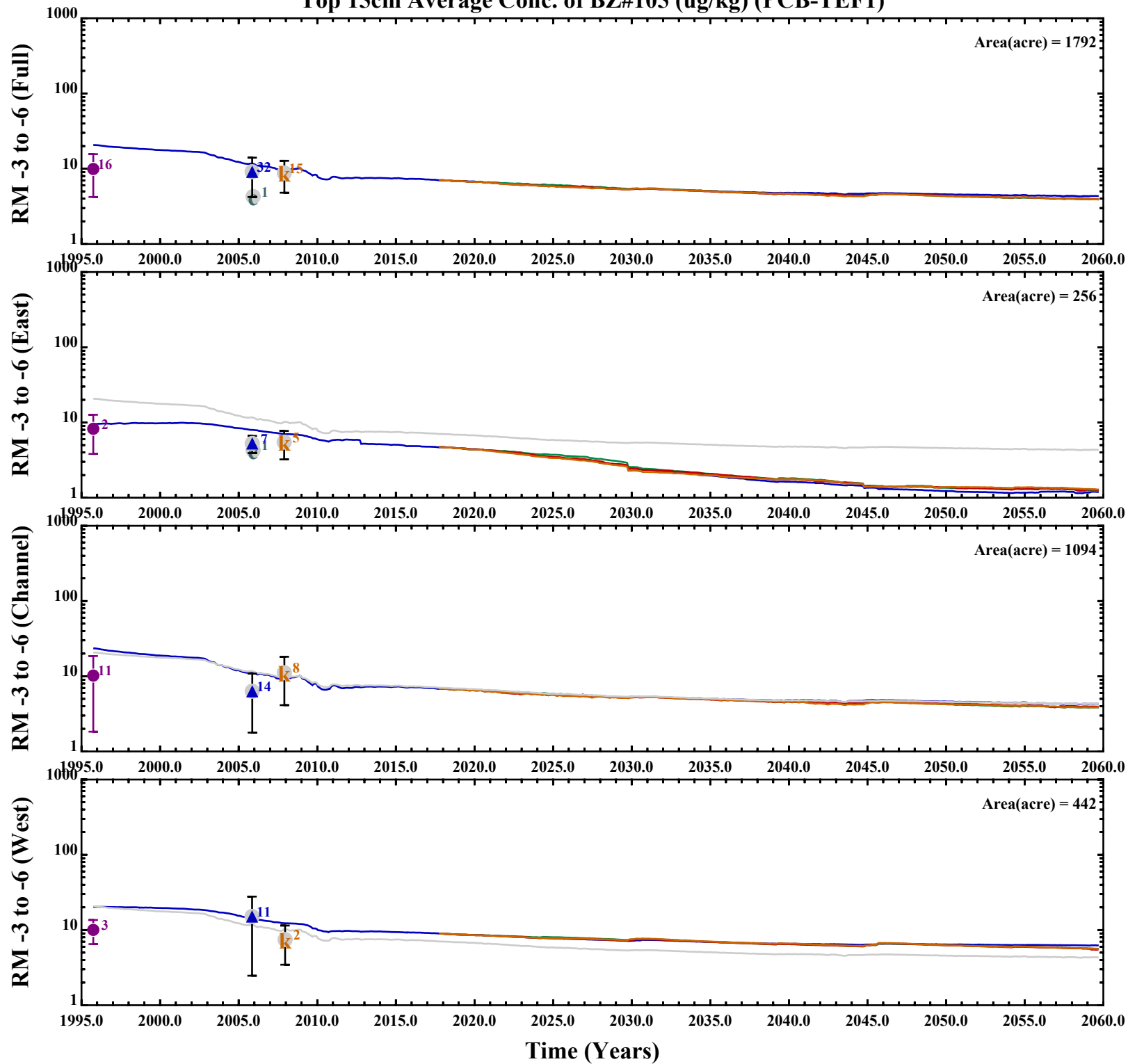
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1991 Core Sediment Investigation
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1994 NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

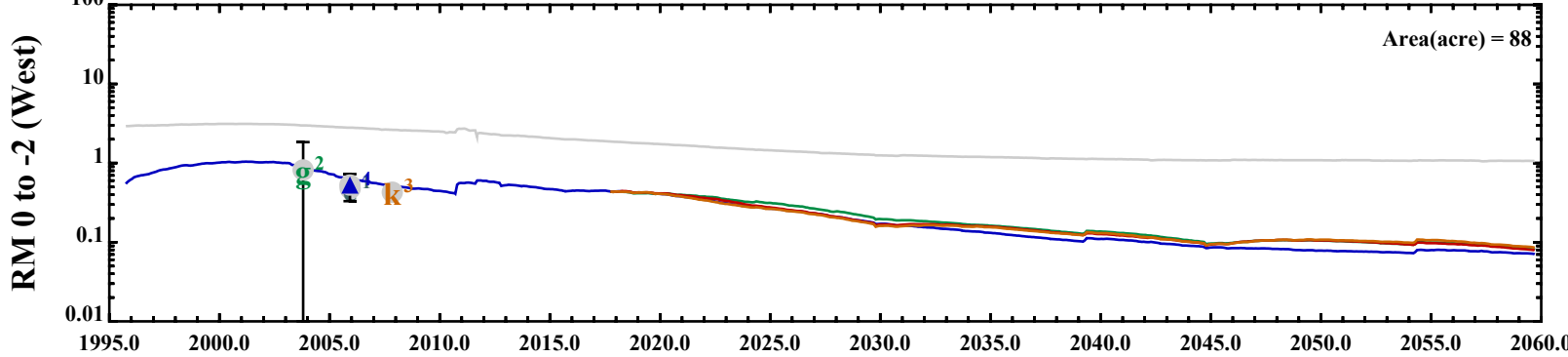
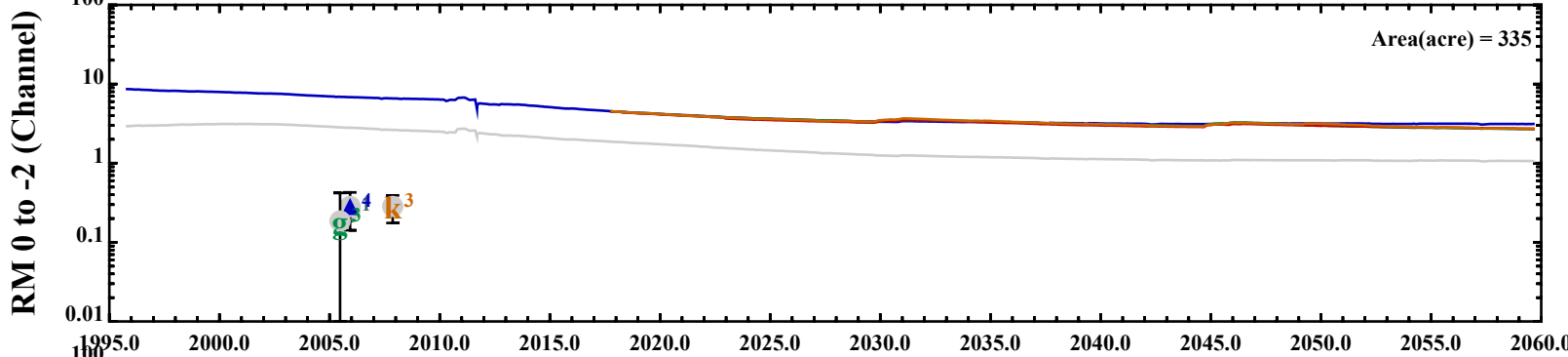
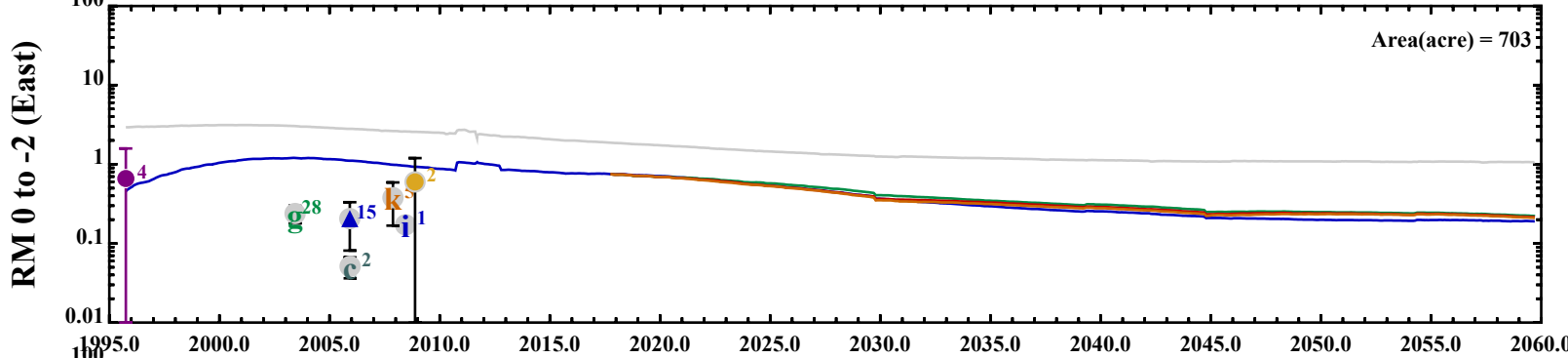
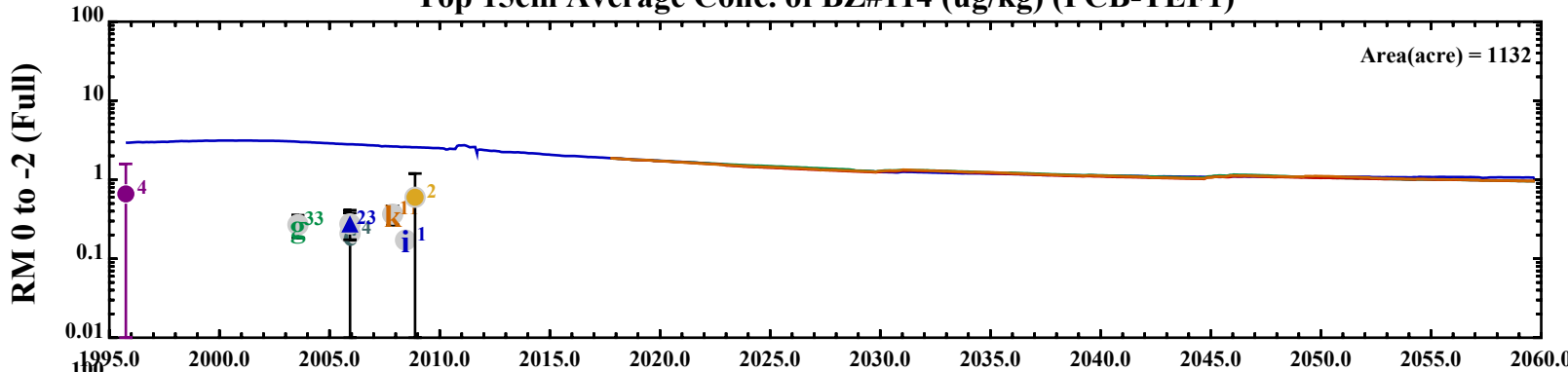
# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

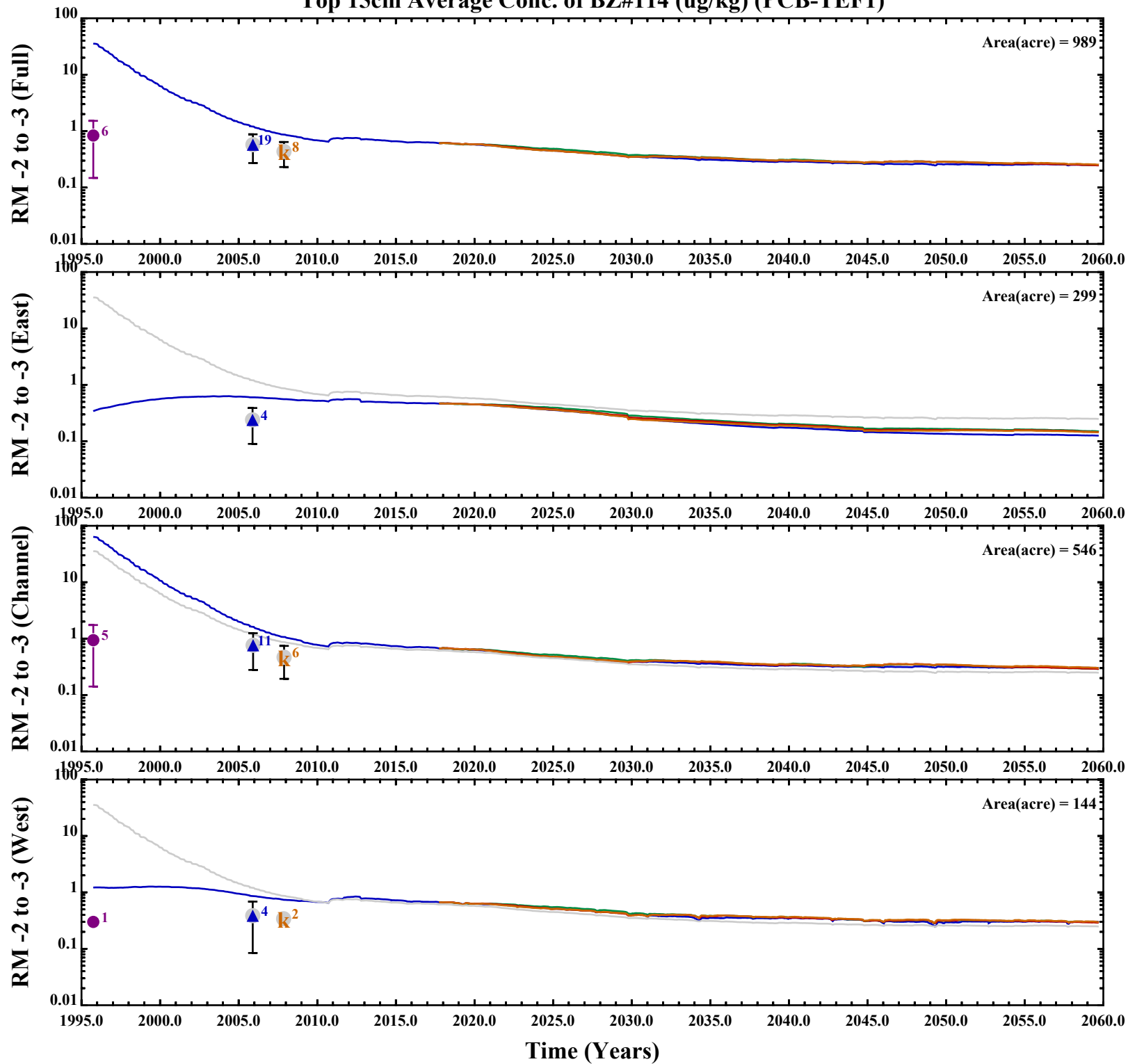
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
- b 2000 Toxicity Identification Evaluation
- c 2005 MPI - Newark Bay Phase I Oversight
- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- d 2005 USEPA-MPI High Res Sediment Core
- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

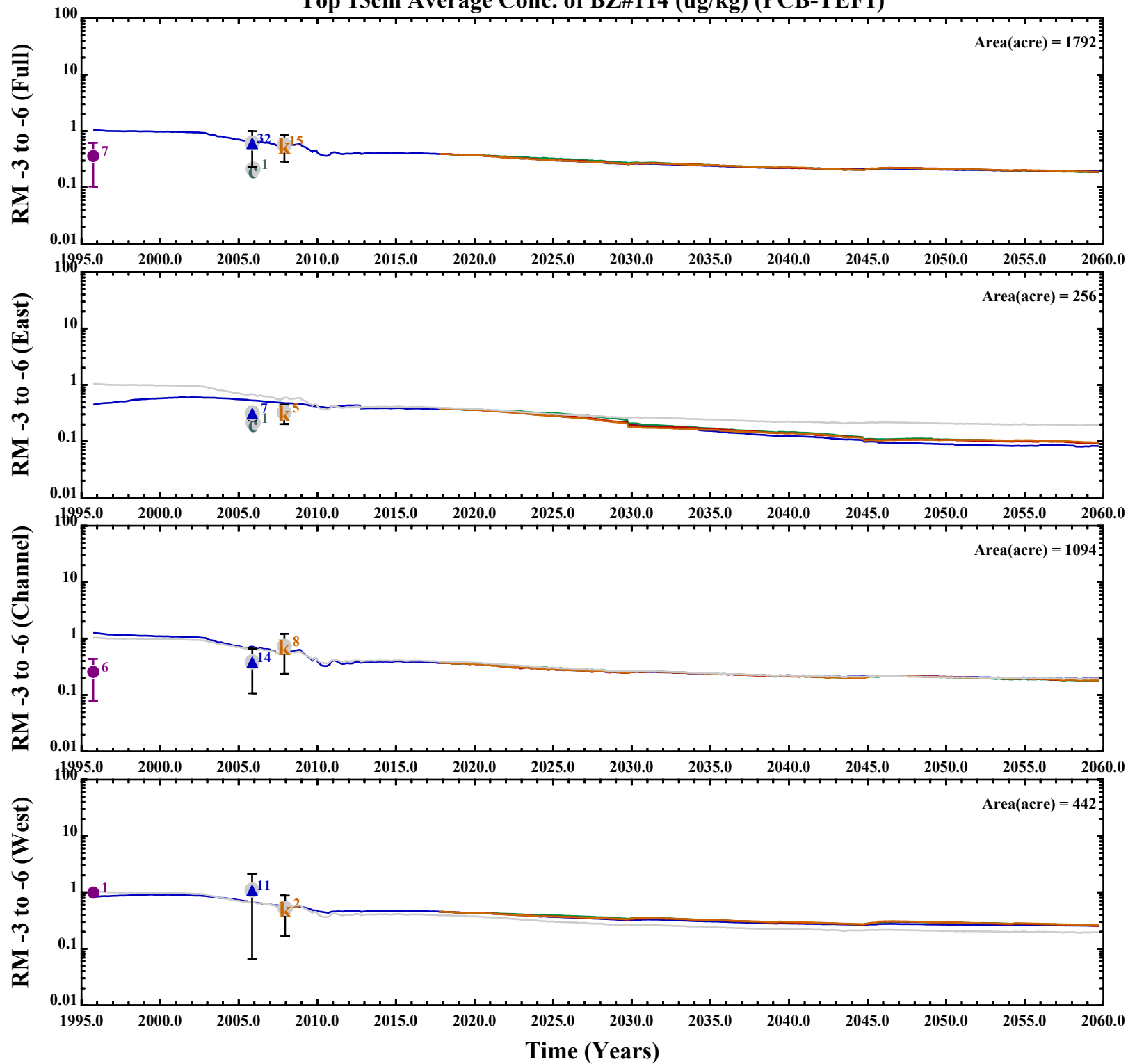
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
- 1994 Surficial Sediment Investigation
- 1994 REMAP
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

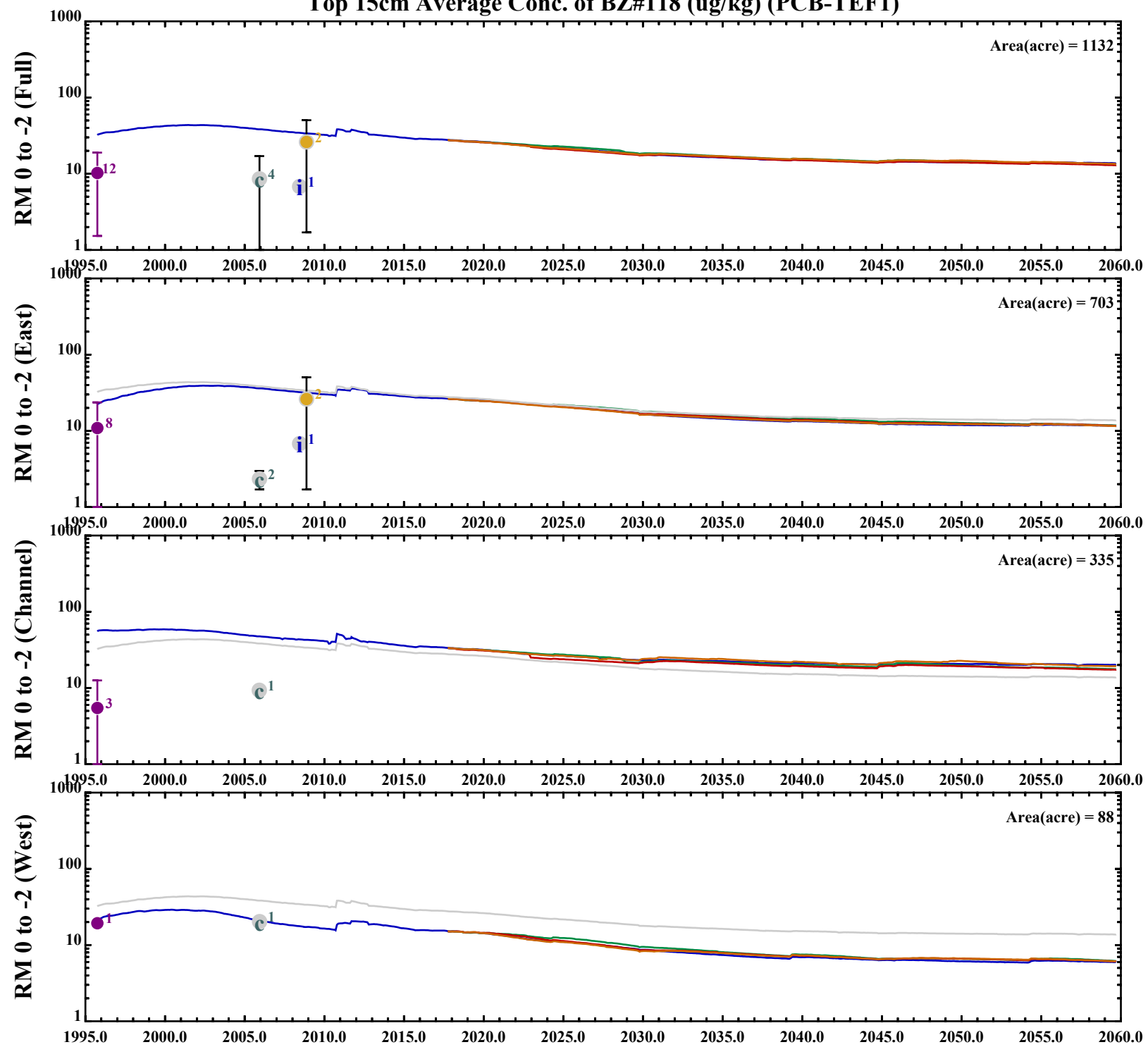
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
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- REMAP, 1998
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
- 2005 USEPA-MPI High Res Sediment Core
- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

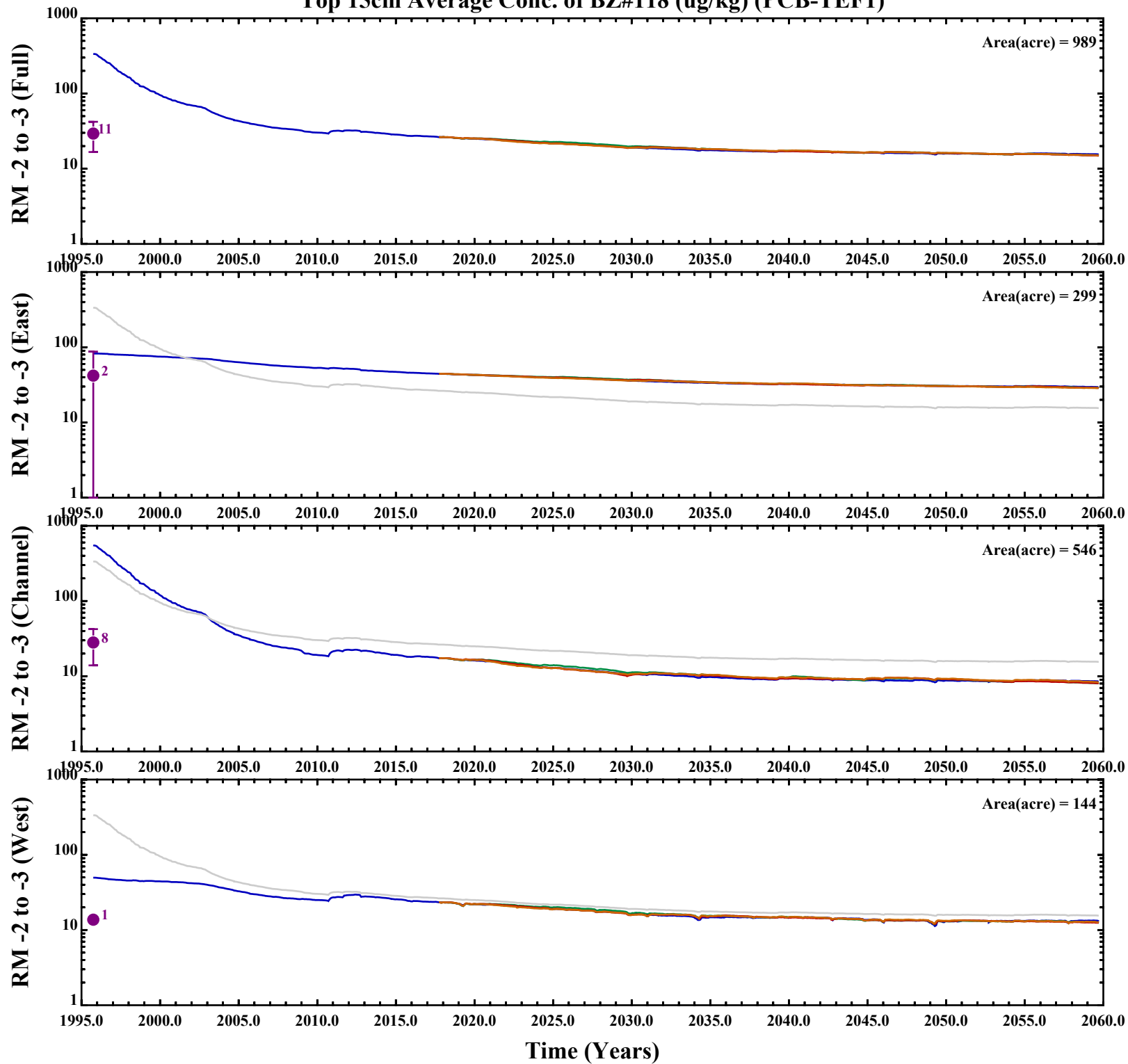
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
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  - b 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

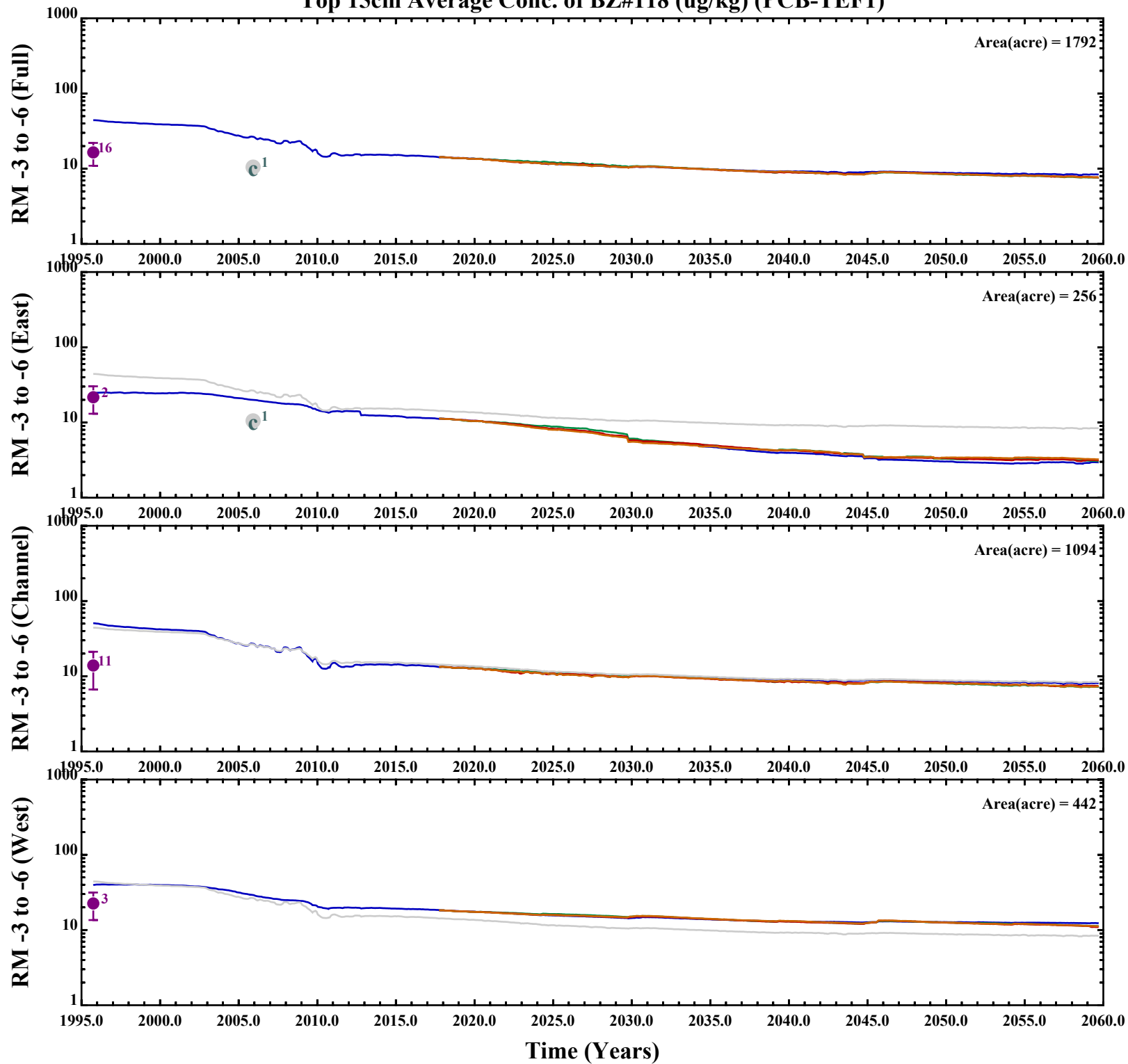


- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
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- g 1999-2006 Honeywell Intl Sampling
- i 2007 USEPA-MPI-EMBM Sediment Samples
- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)



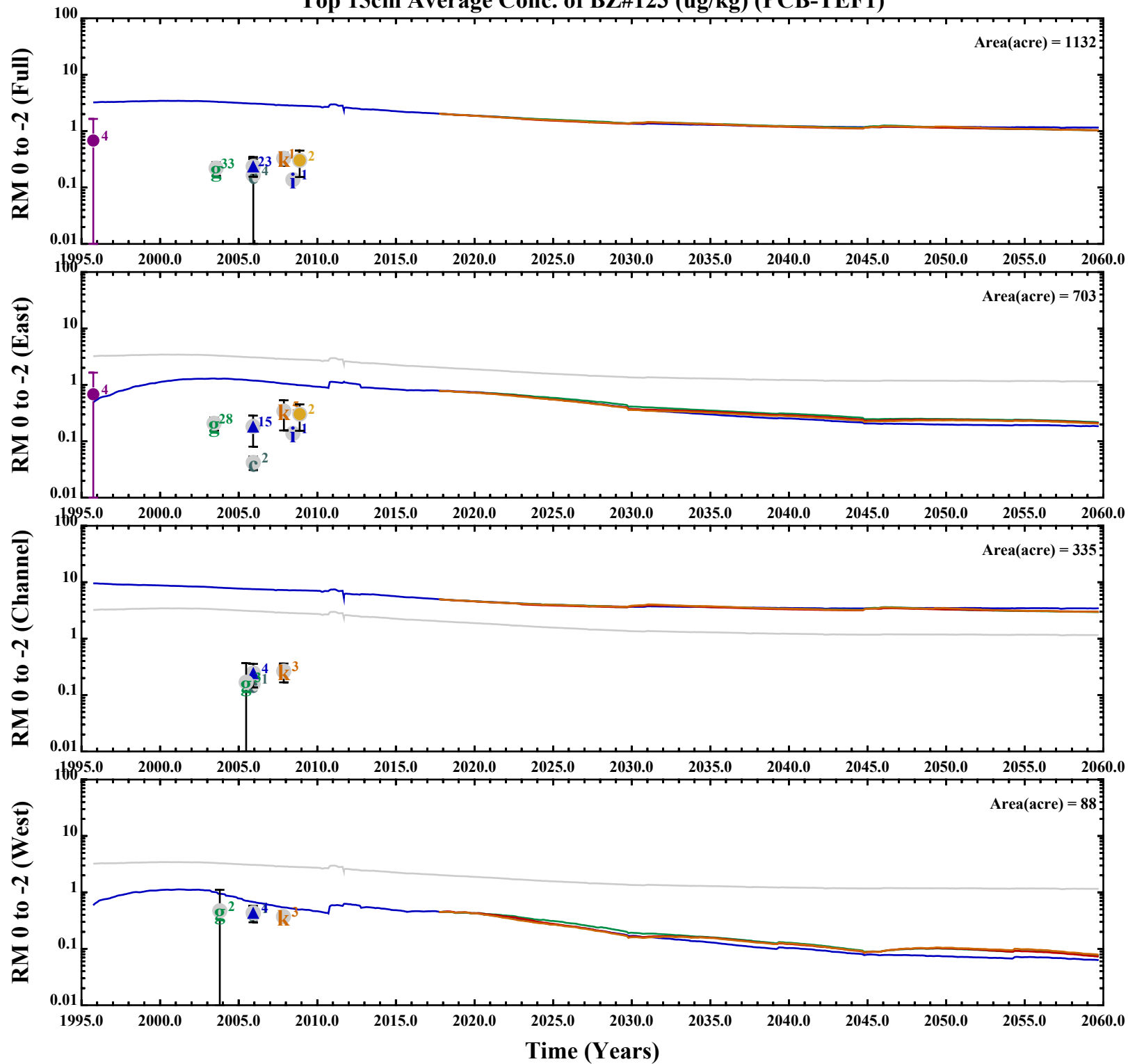
# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
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- 1995 Sediment Grab Sampling Program
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- 1998 Newark Bay Elizabeth Channel Sampling Program
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- 2006 HRSA RI Sampling Program
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- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

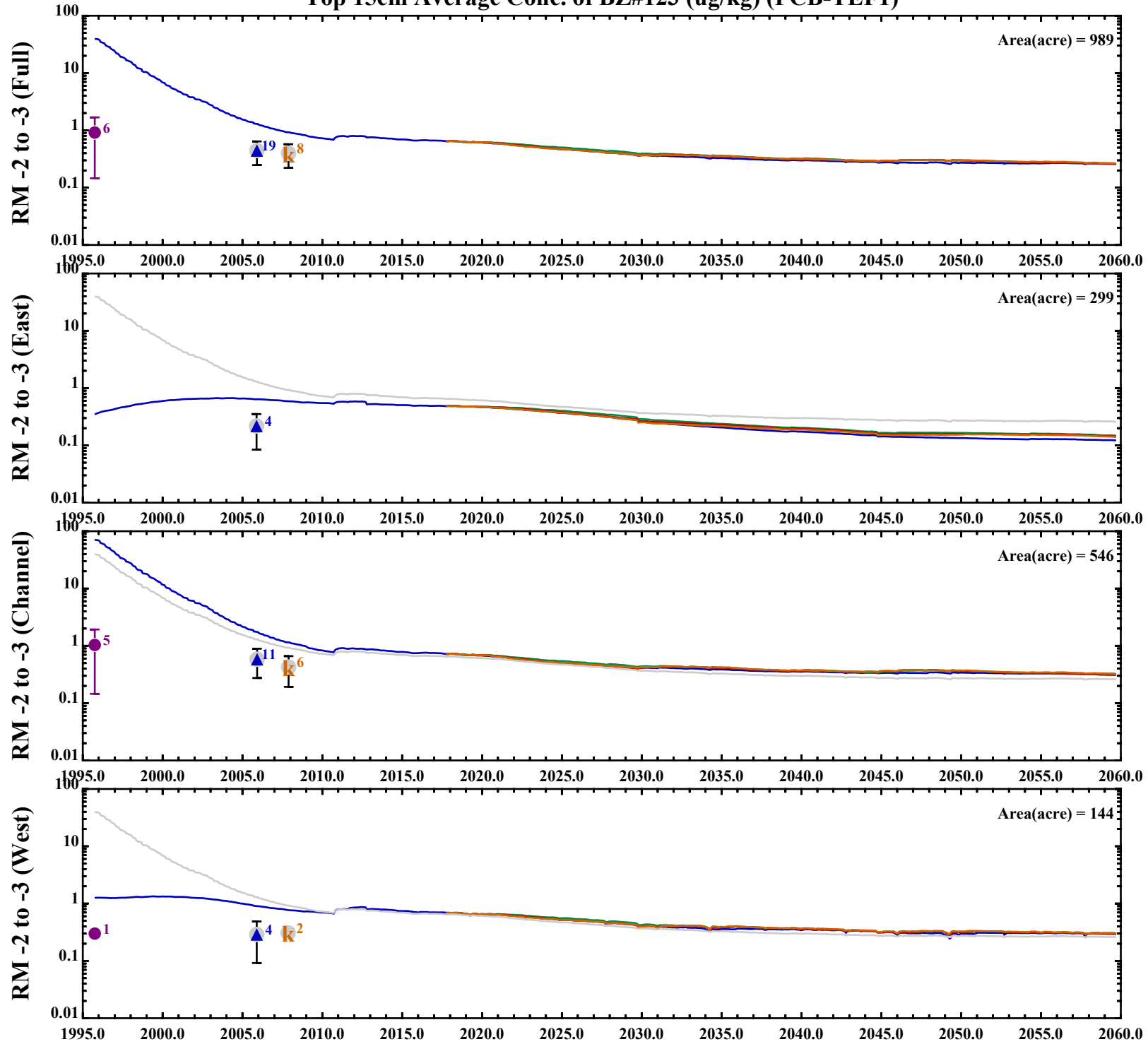
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

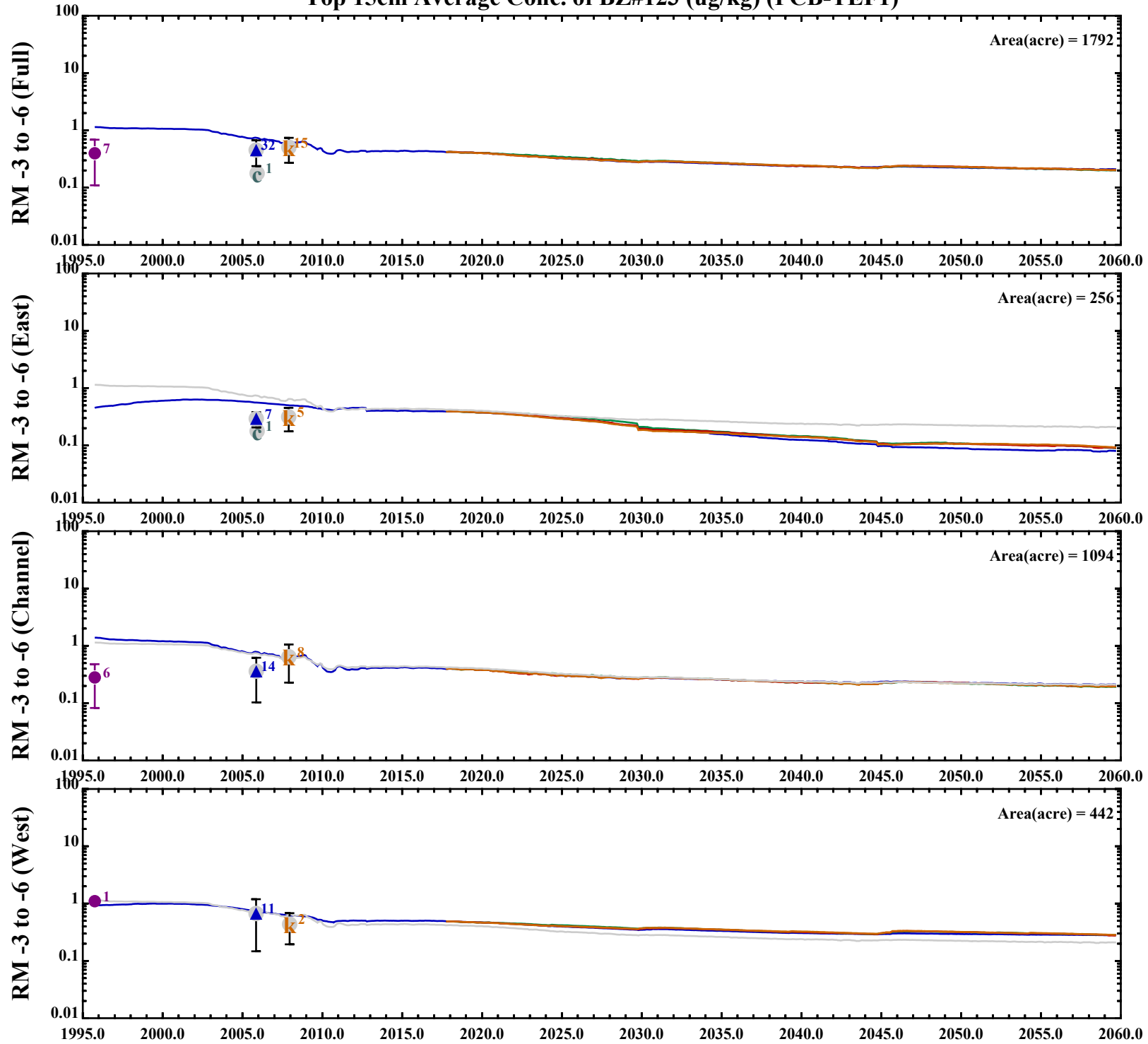
# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
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- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
- S 1998 Newark Bay Elizabeth Channel Sampling Program
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- U 1999 Late Summer/Early Fall ESP Sampling Program
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- d 2005 USEPA-MPI High Res Sediment Core
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

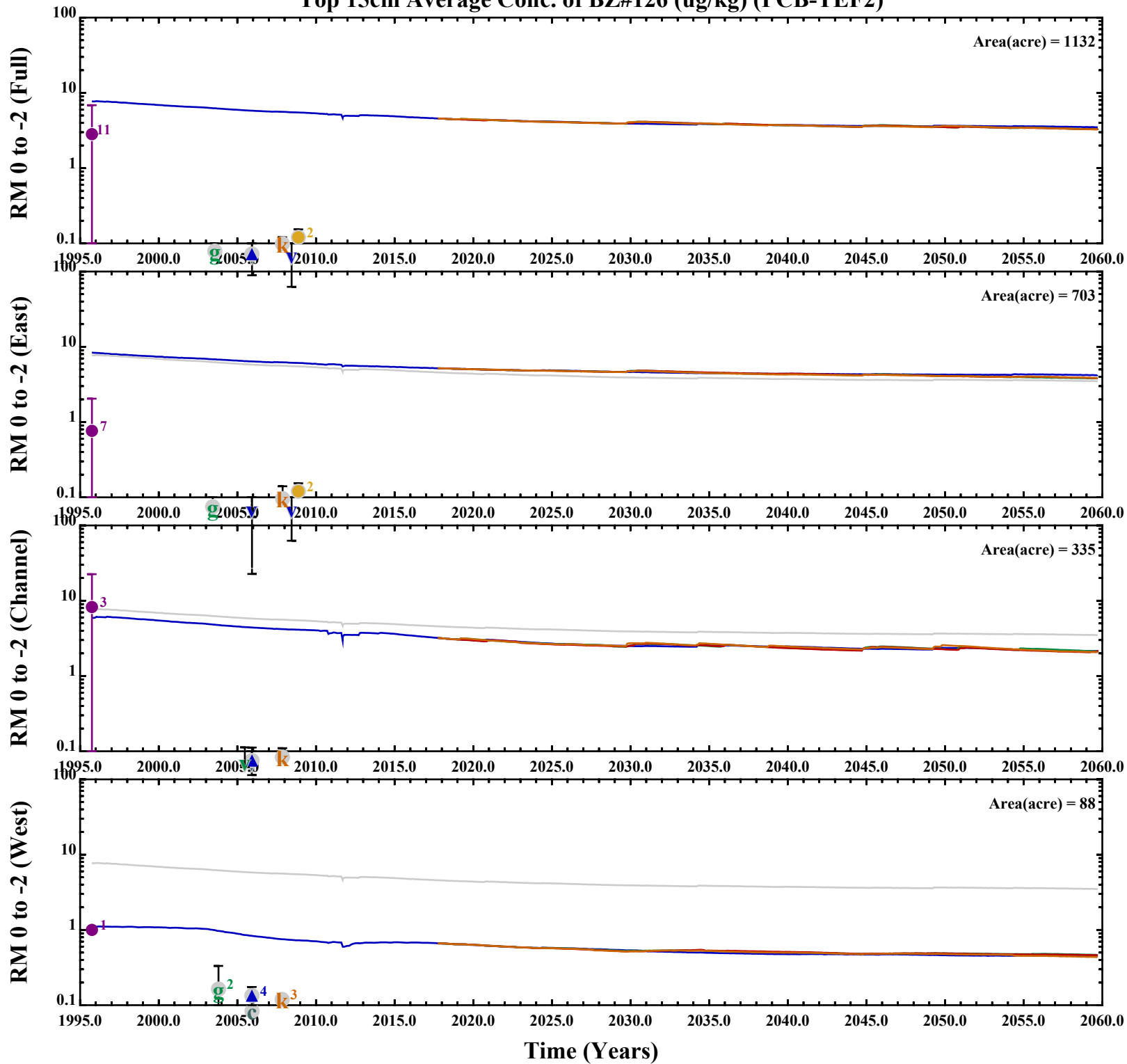
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - ▲ REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
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  - 2000 Spring ESP Sampling Program
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  - ▲ 2005 MPI - Newark Bay Phase I Oversight
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  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

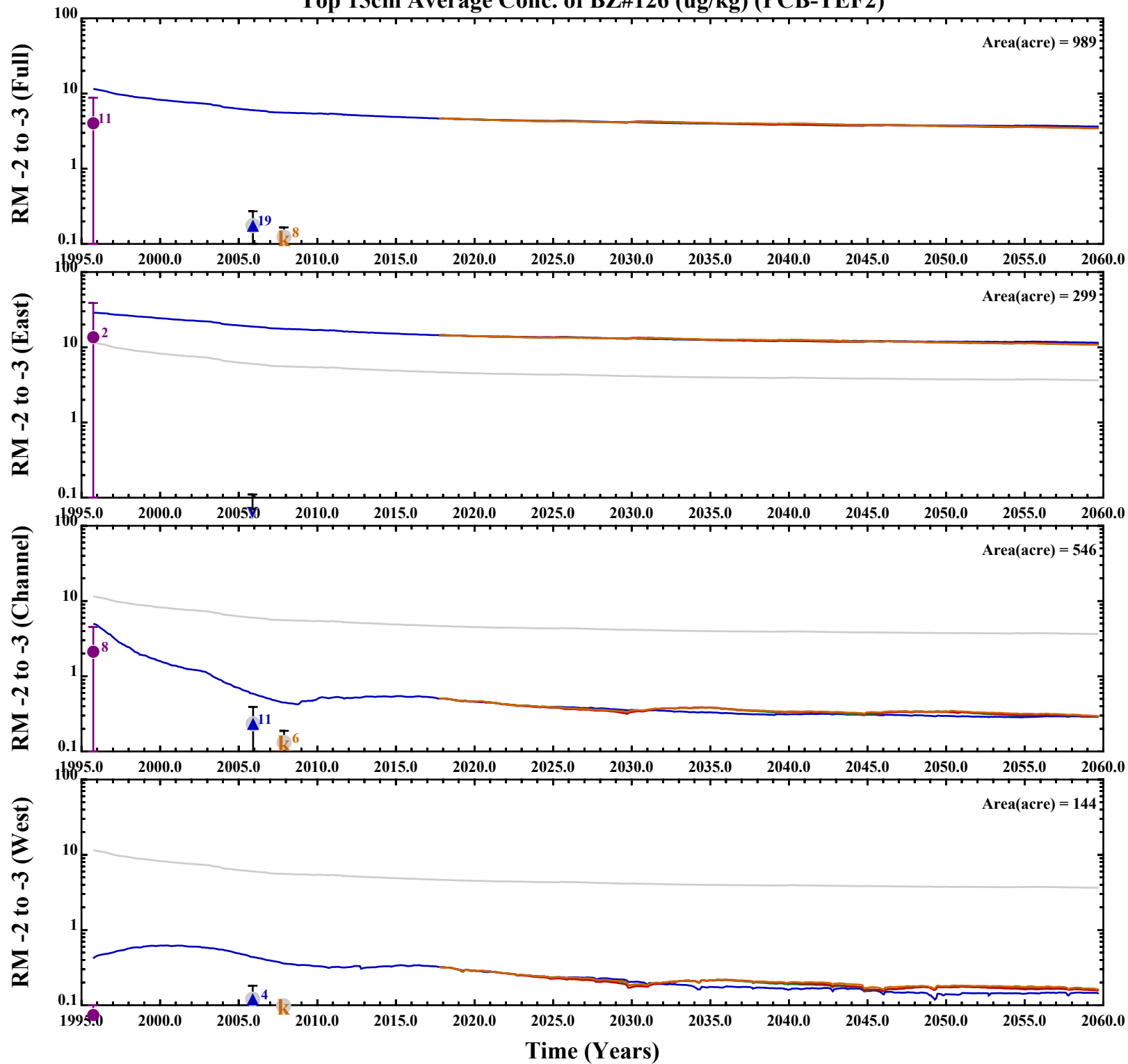
# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
- REMAP, 1998
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- 2000 Toxicity Identification Evaluation
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- ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
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- 2006 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
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- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

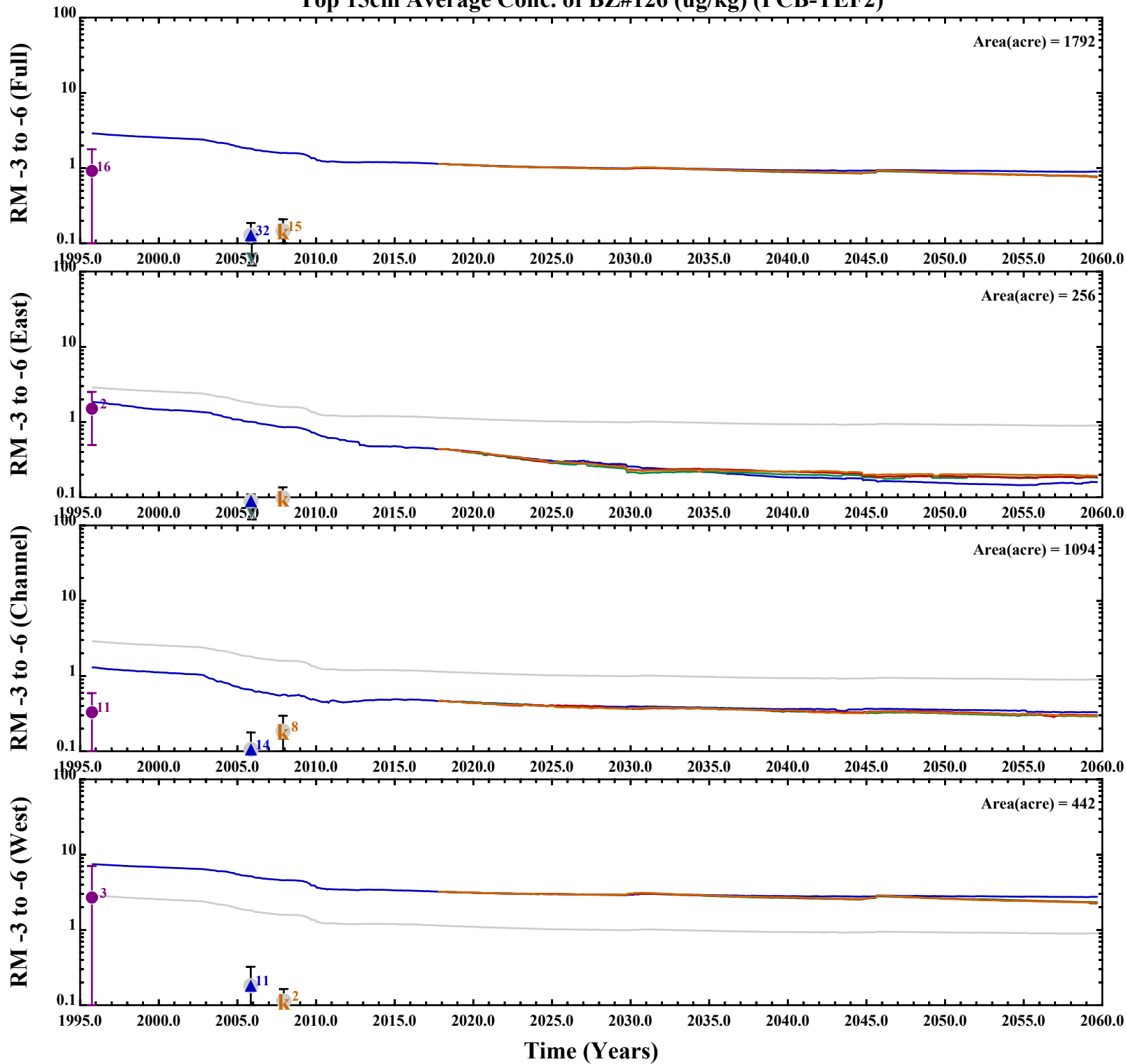
# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
- A 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
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- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
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- c 2005 MPI - Newark Bay Phase I Oversight
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- d 2005 USEPA-MPI High Res Sediment Core
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

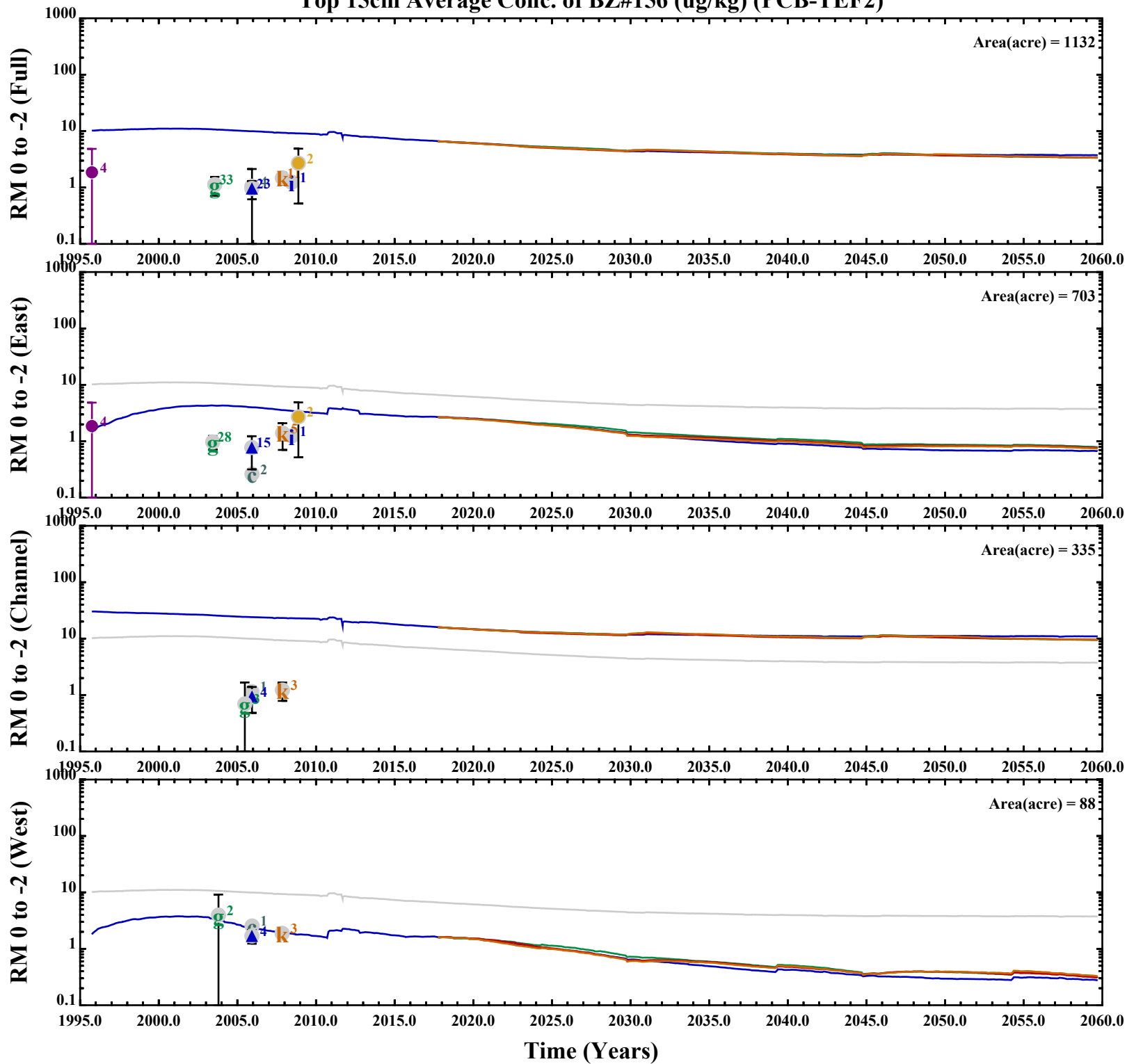
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
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  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
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  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
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  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

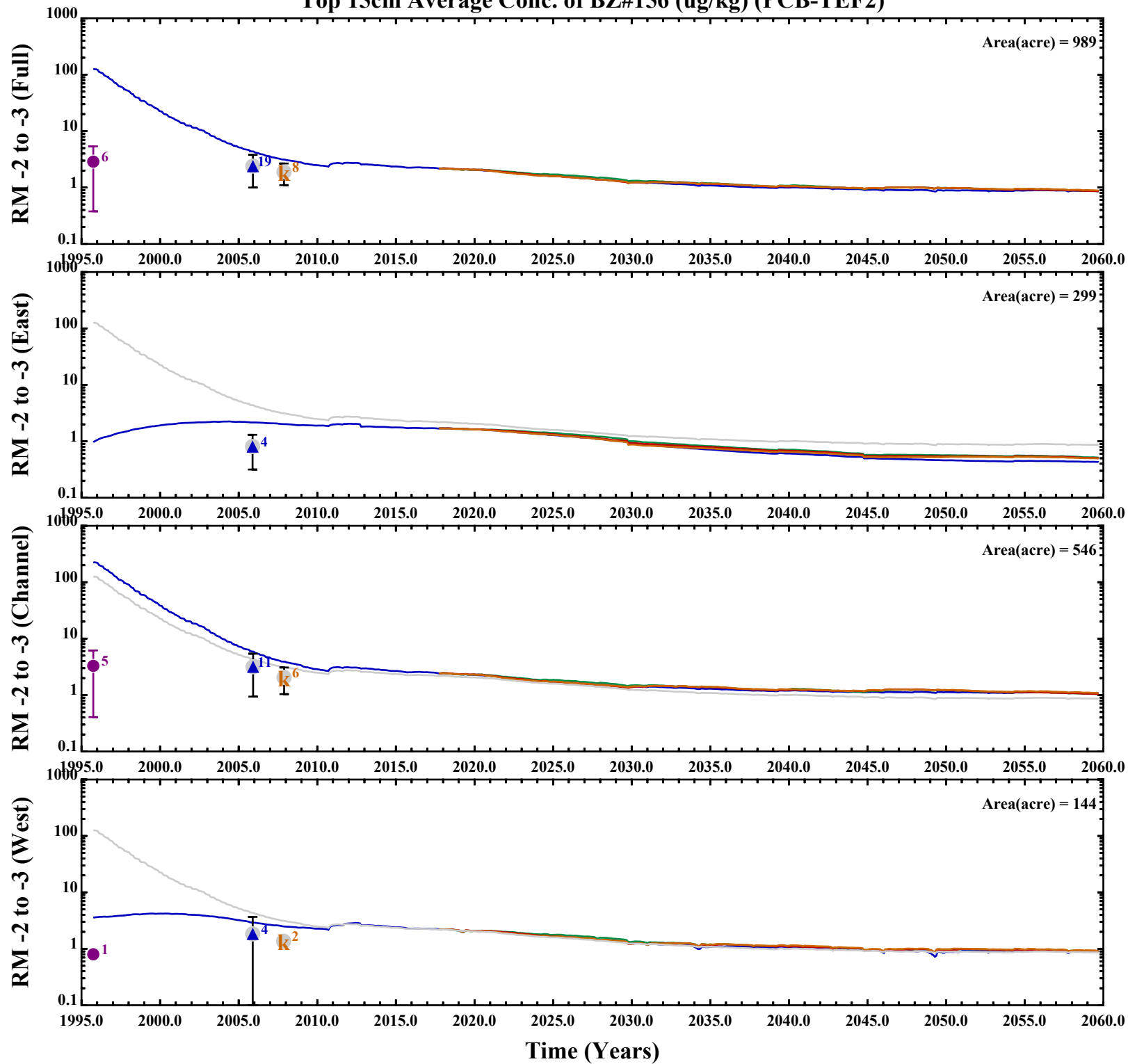
# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990-92 EPA EMAP
  - 1991 Core Sediment Investigation
  - 1991-93 NOAA NS&T Hudson-Raritan Phase I
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - 1993-94 NOAA NS&T Hudson-Raritan Phase II
  - 1993 REMAP
  - 1994 Surficial Sediment Investigation
  - 1994 REMAP
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
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  - 1999/2000 Minish Park Monitoring Program
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
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  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



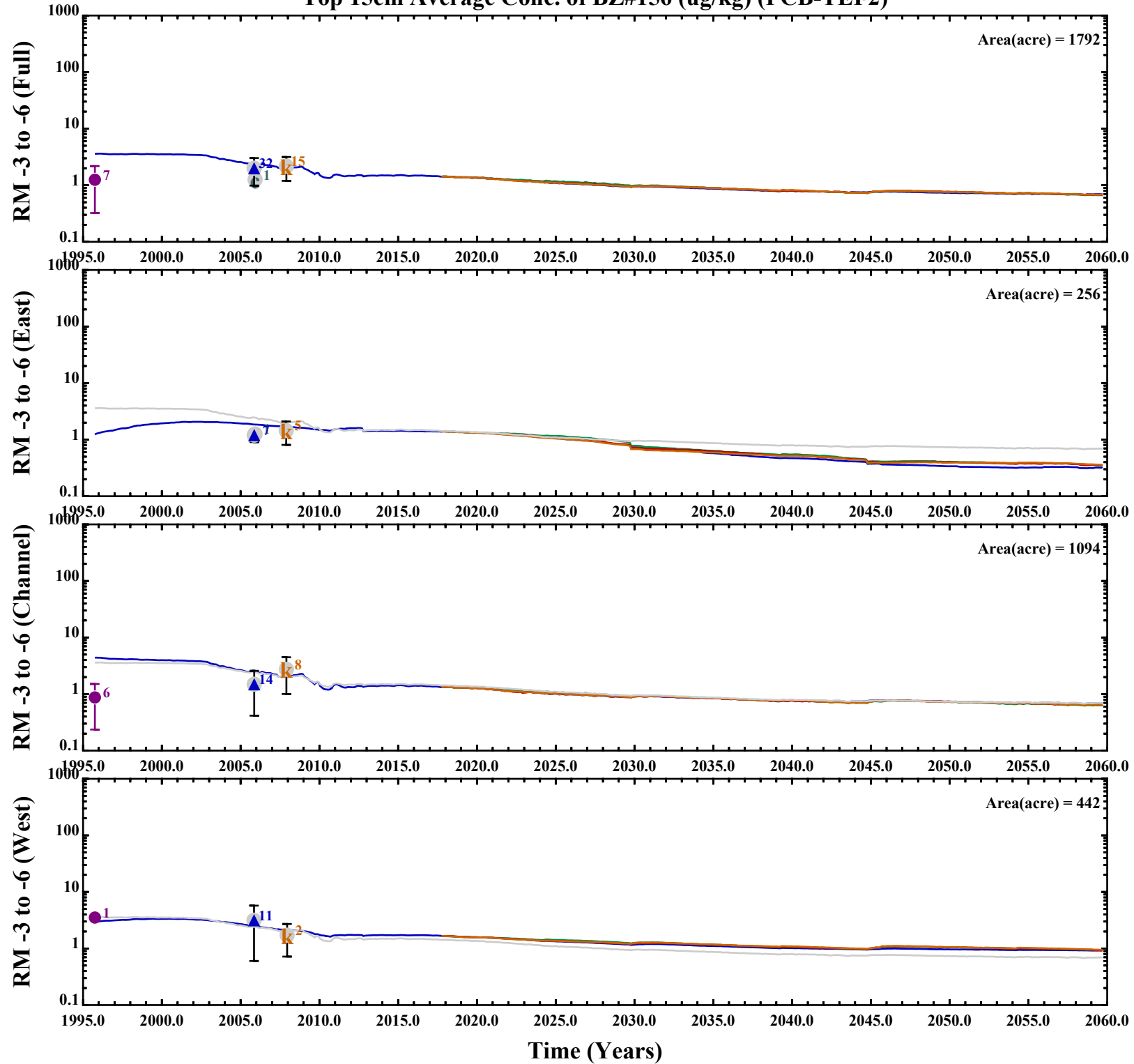
# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
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- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

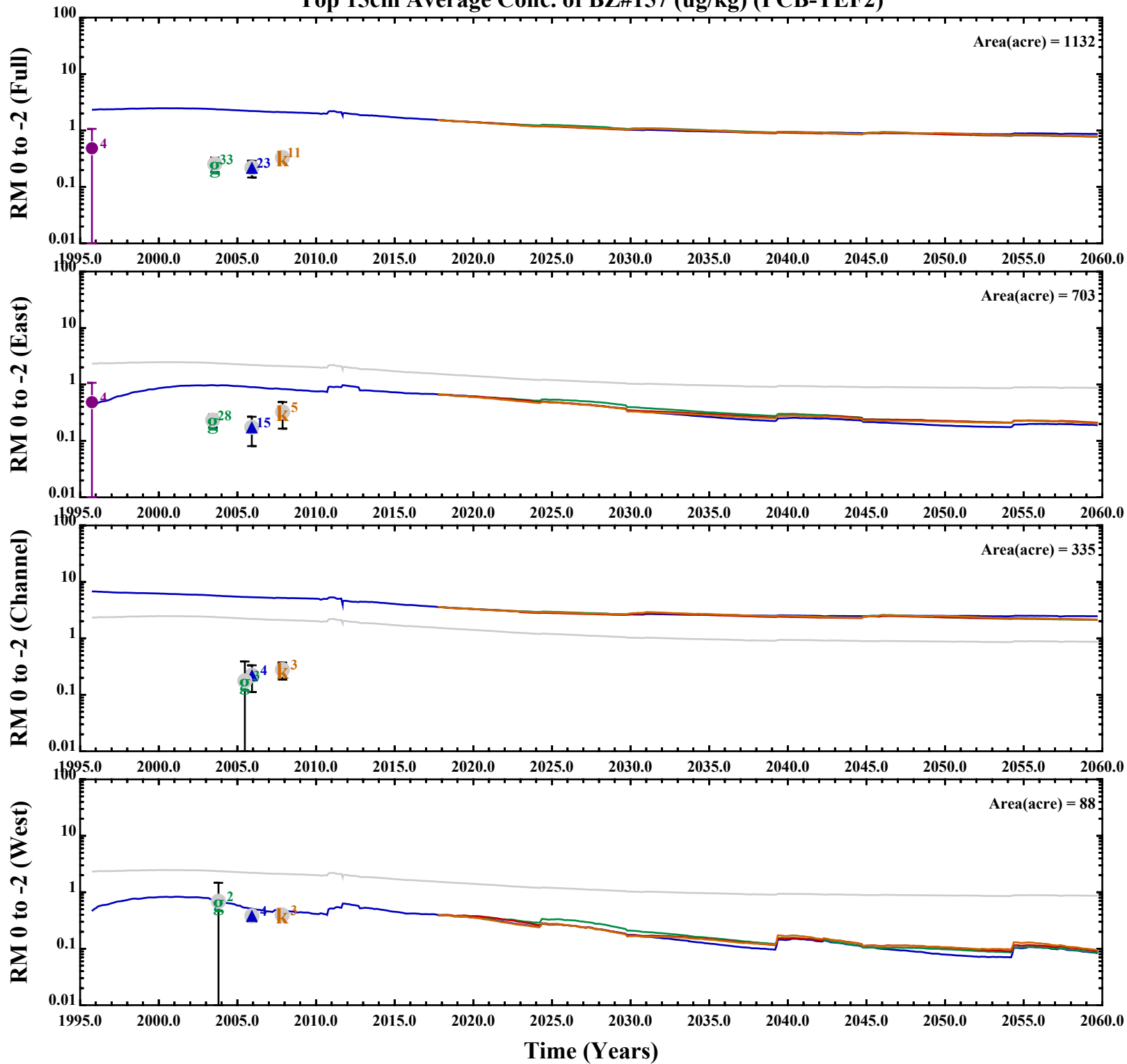
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

### Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
- ▲ REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
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- e 2006 HRSA RI Sampling Program
- g 1999-2006 Honeywell Intl Sampling
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- j 2007 USEPA-MPI Dundee High Res Core
- k 2007 Newark Bay Phase II TSI Sediment Samples
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- m 2009 CPG Benthic Sediment Study
- o 2009 USEPA-MPI Benthic Oversight
- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background BenthicSediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

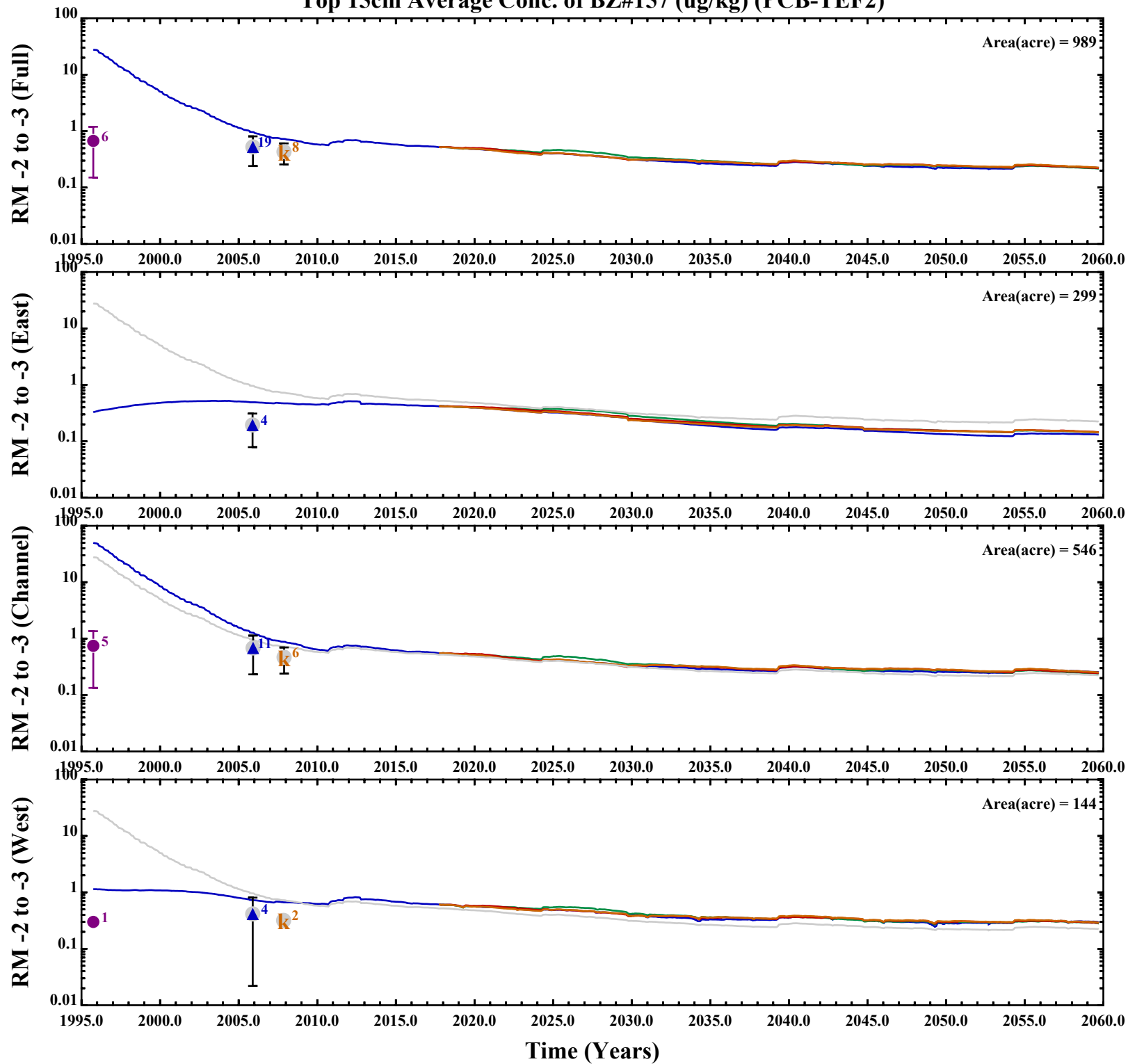
# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

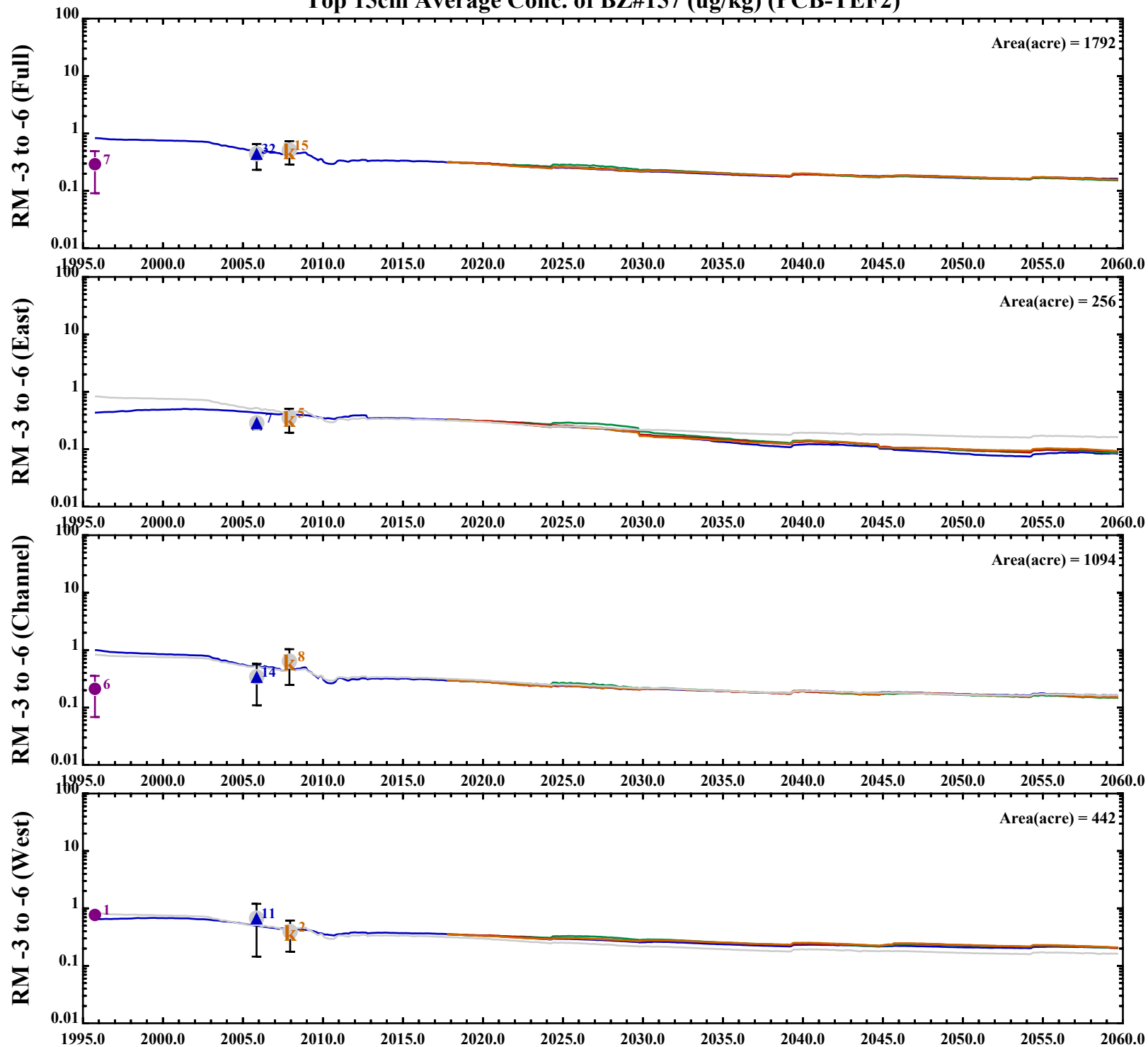
# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



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- ▲ 1990 Surficial Sediment Investigation
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- 1991 Core Sediment Investigation
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- 2012 CDMSmith LowRes Coring Supplemental
- ▲ 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

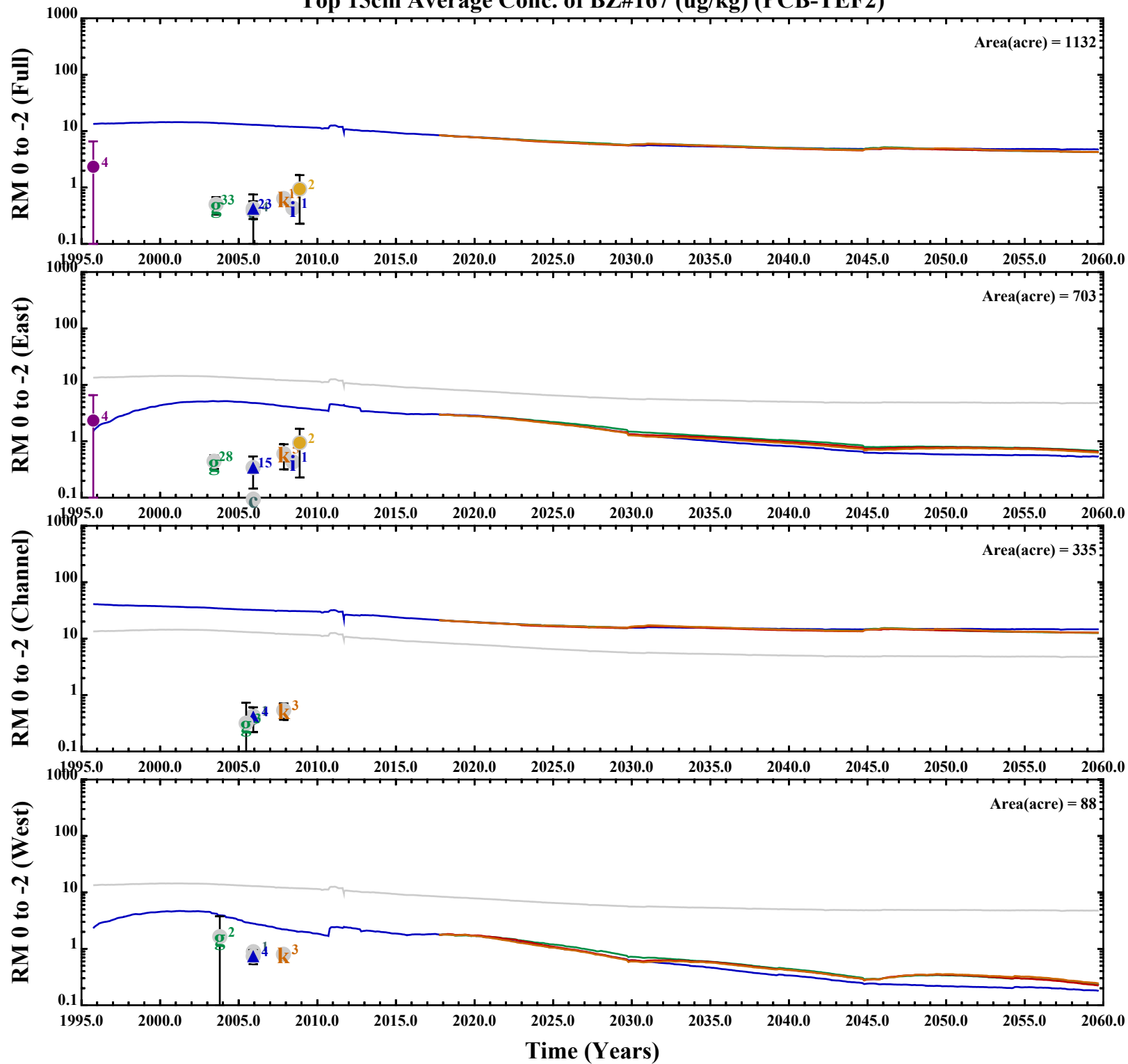
# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
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- 2007 Newark Bay Phase II TSI Sediment Samples
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- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

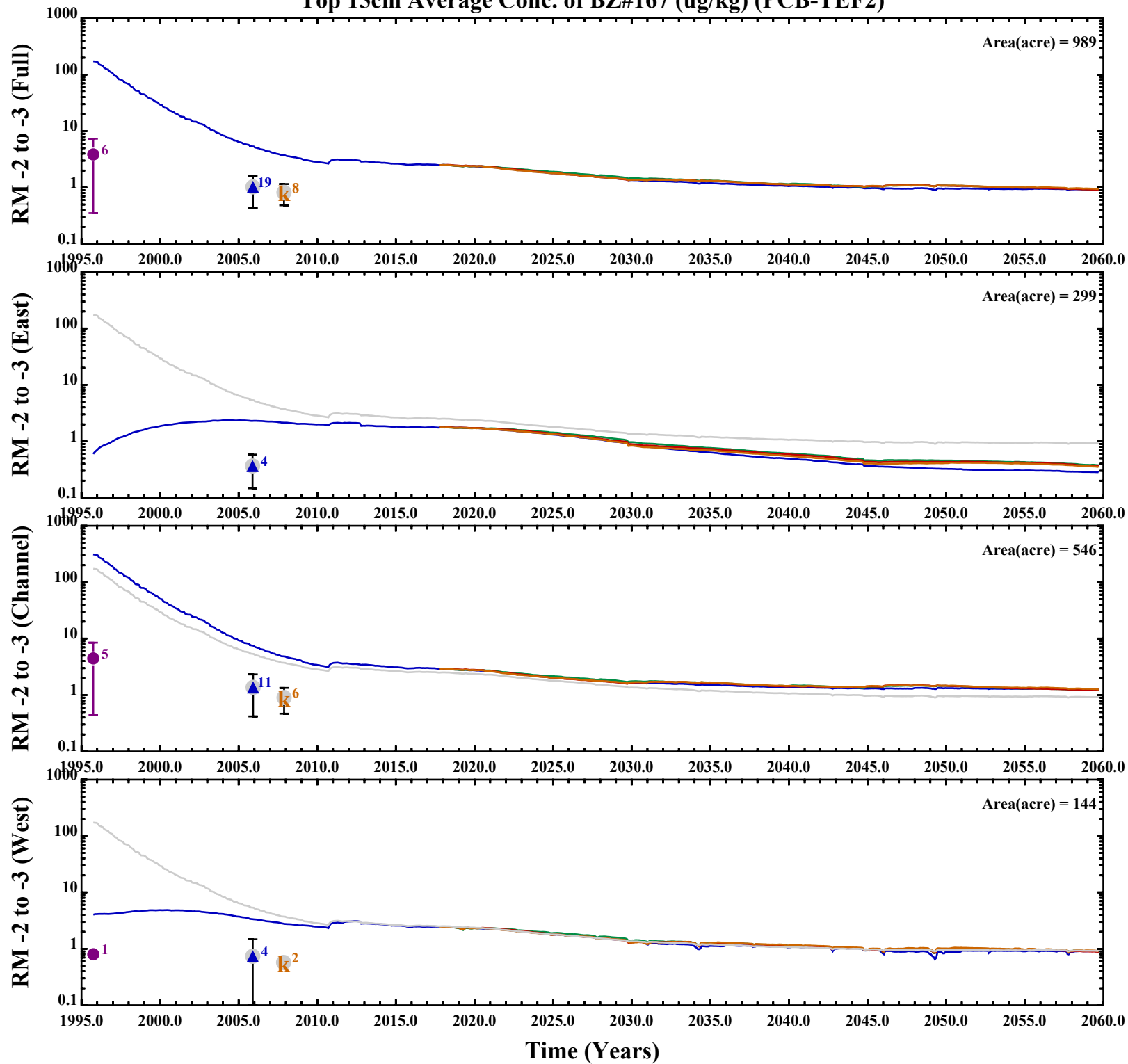
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - ▲ 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

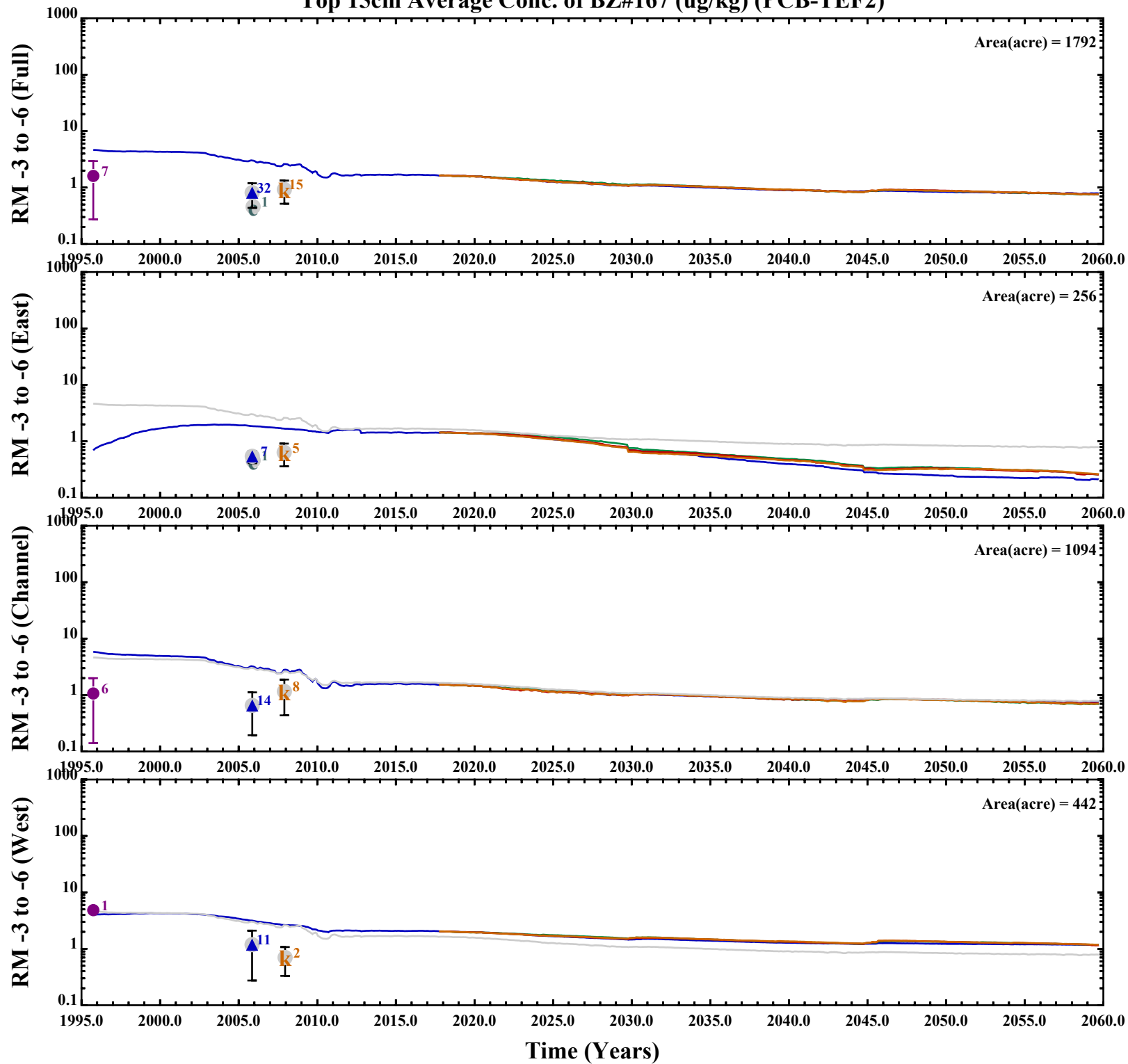
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
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- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)

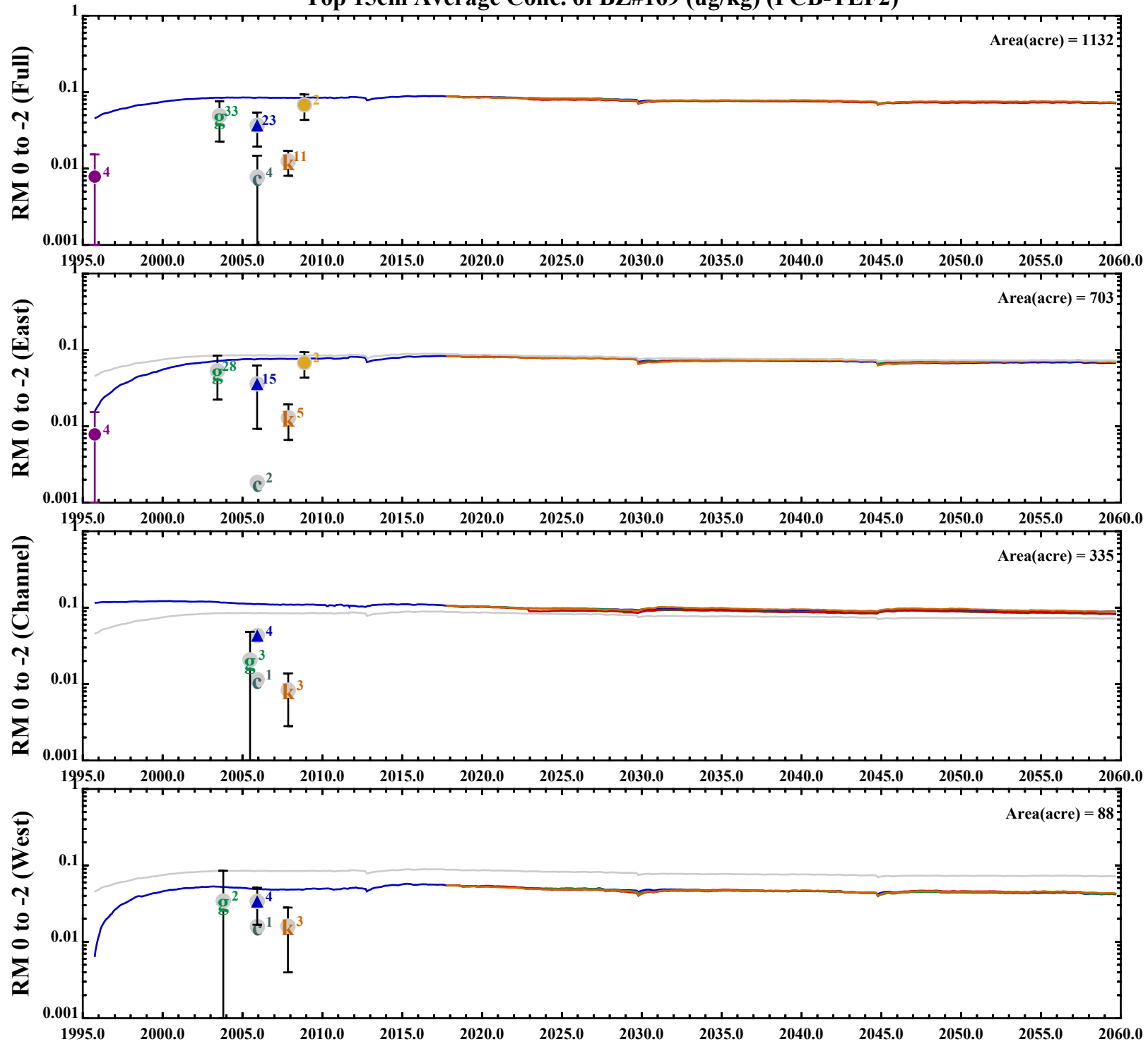


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
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- 1994 Surficial Sediment Investigation
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- 1998 Newark Bay Elizabeth Channel Sampling Program
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

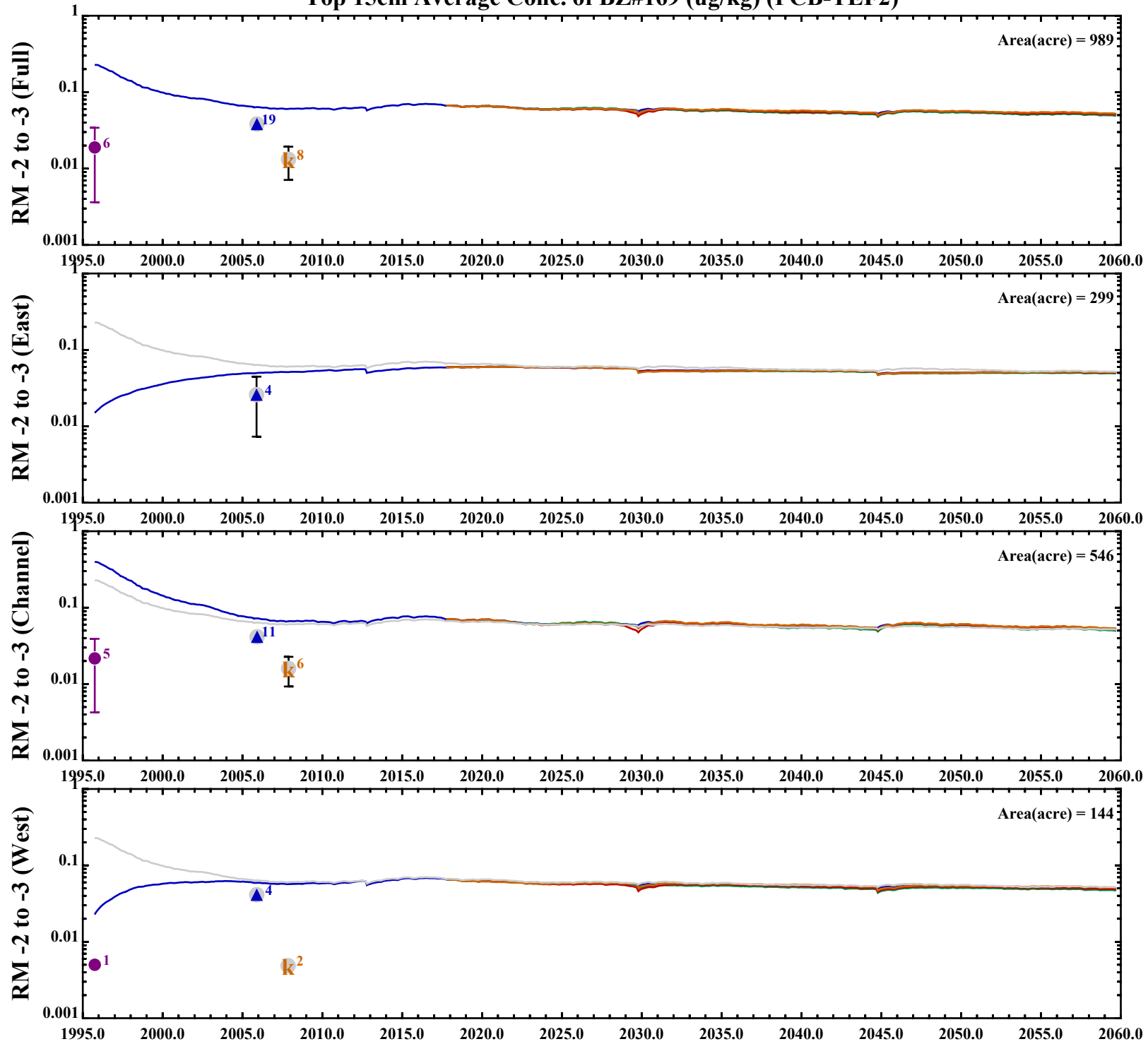


# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



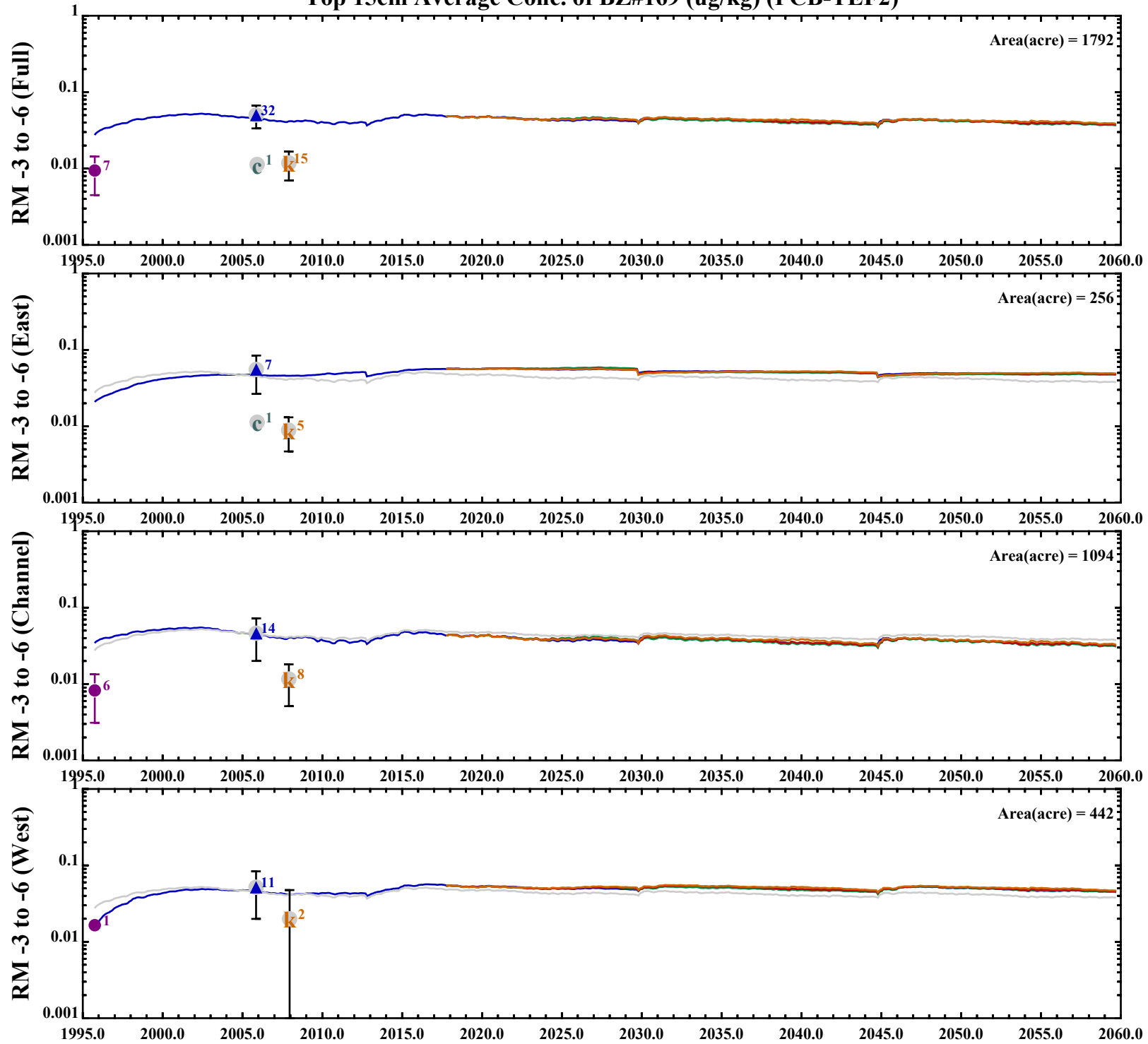
- Data used for ICs
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  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
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  - H 1993 USEPA Surficial Sediment Program
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  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
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  - X 1999 Prelim Toxicity Identification Eval
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  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



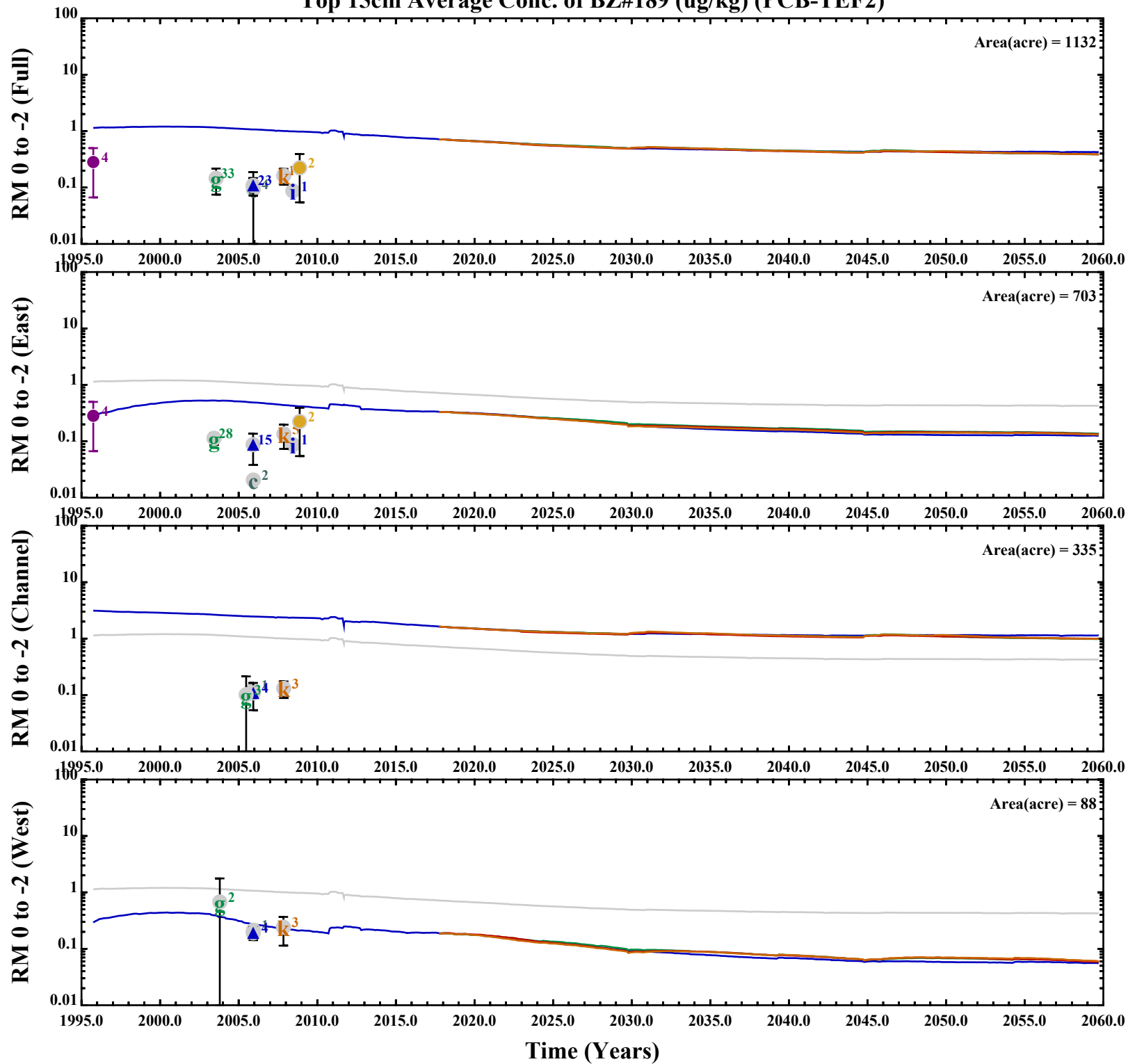
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - 1990-92 EPA EMAP
  - 1991 Core Sediment Investigation
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# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



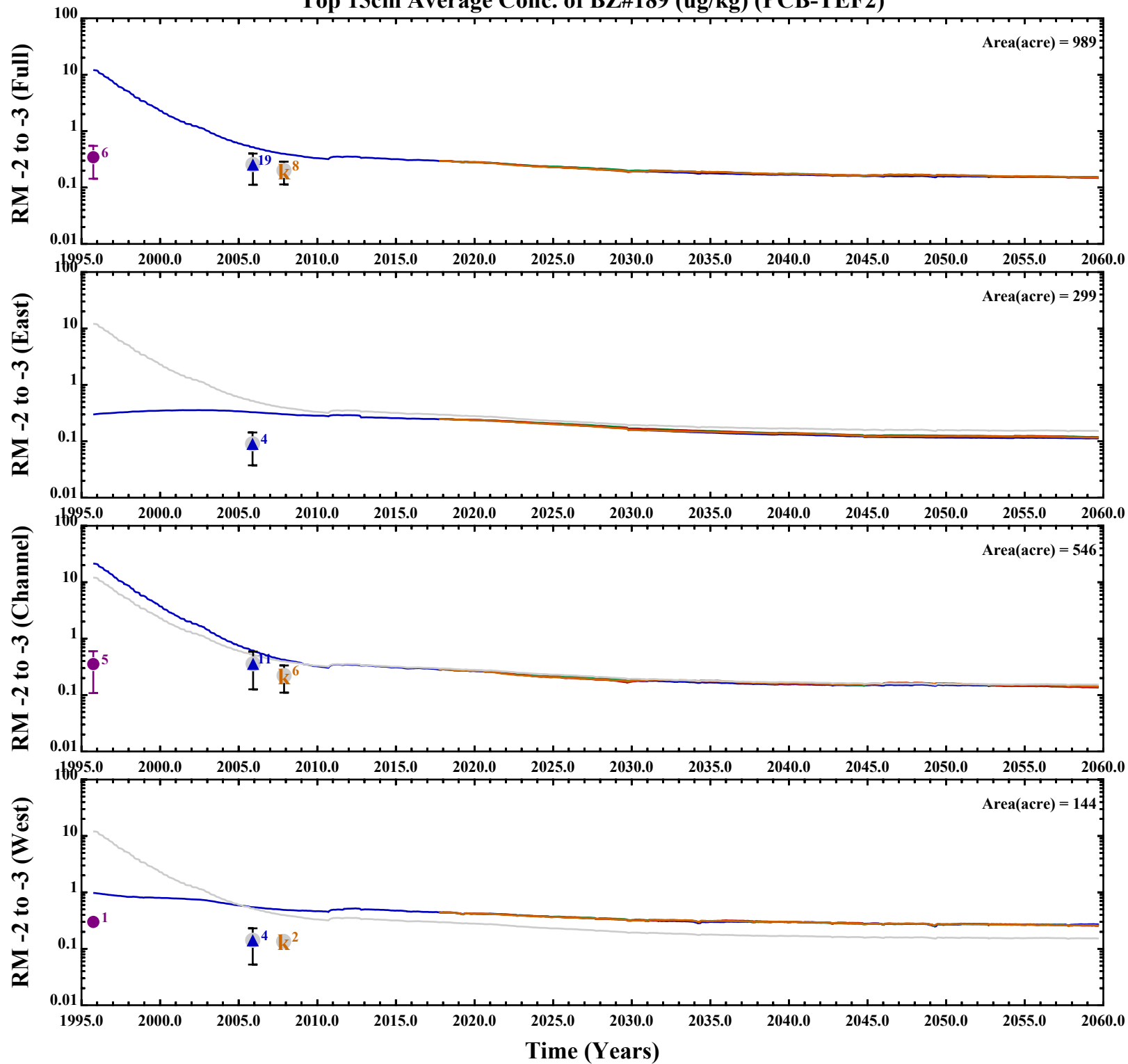
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  - F 1993 Core Sediment Investigation - 01 (March)
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  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - ▲ 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - 1993 USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
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  - ▲ 1995 RI Sampling Program
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  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

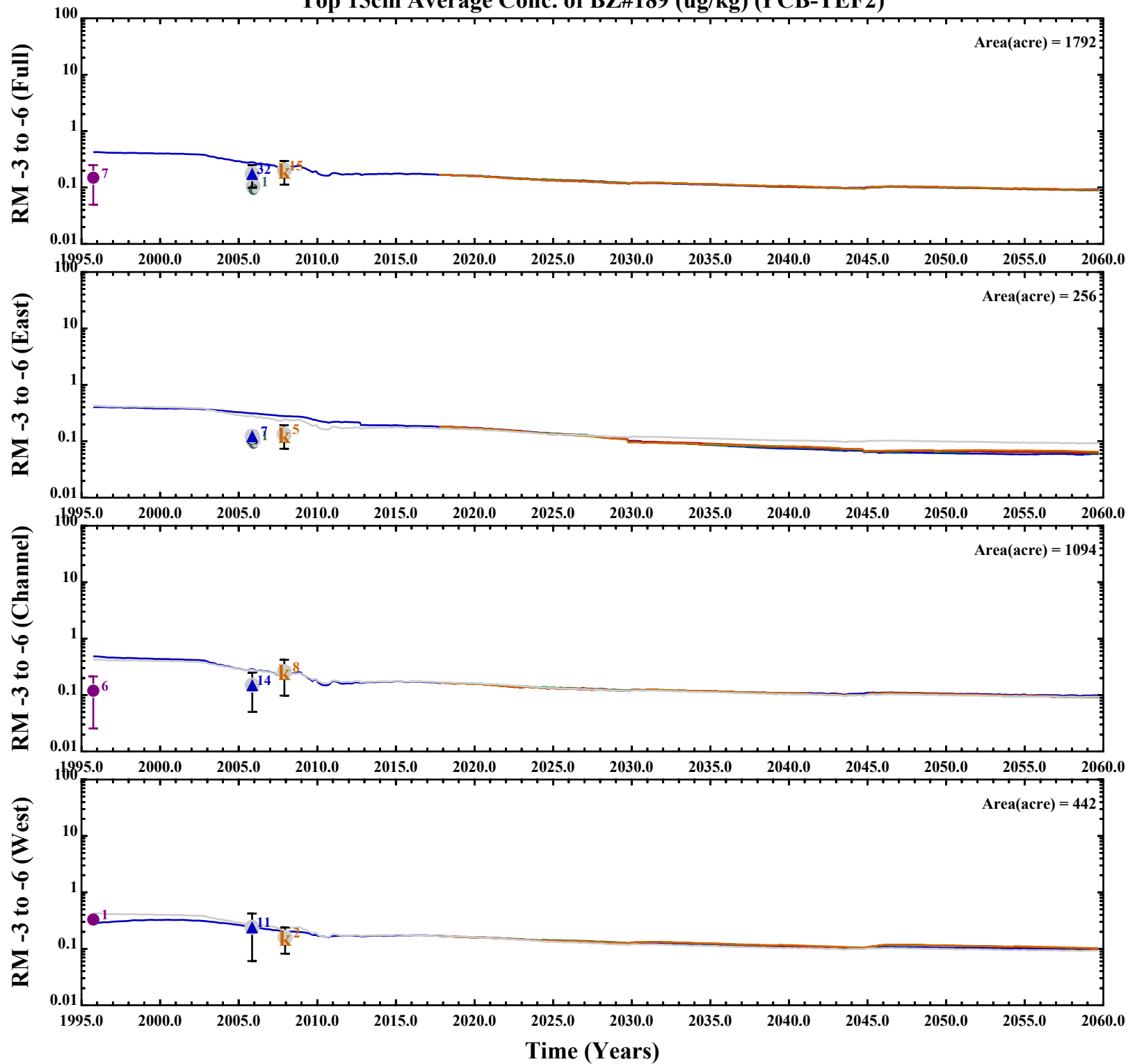
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

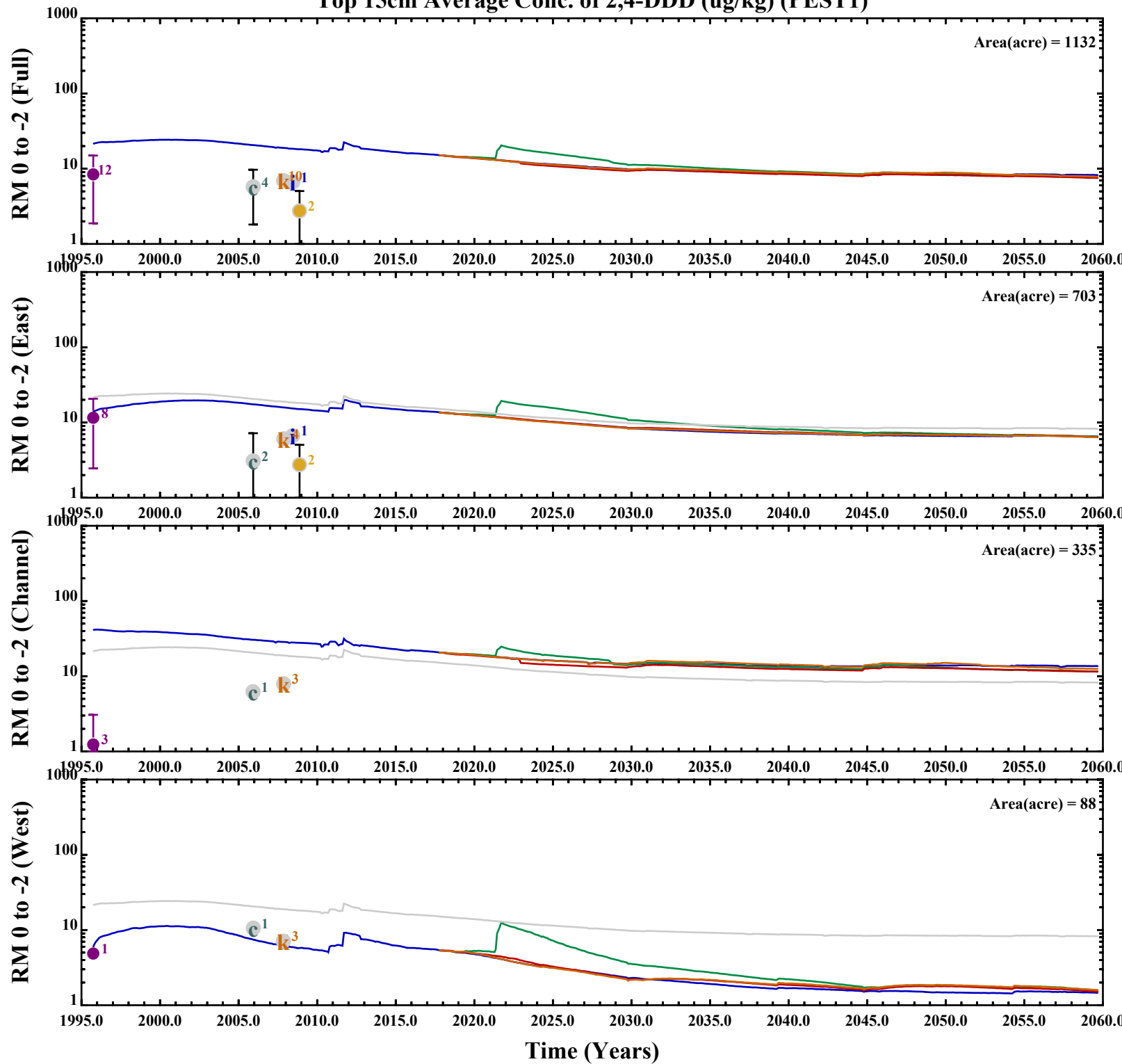
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- 2010 CPG Benthic Sediment Sampling
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- 2011 CPG River Mile 10.9 Data
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- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

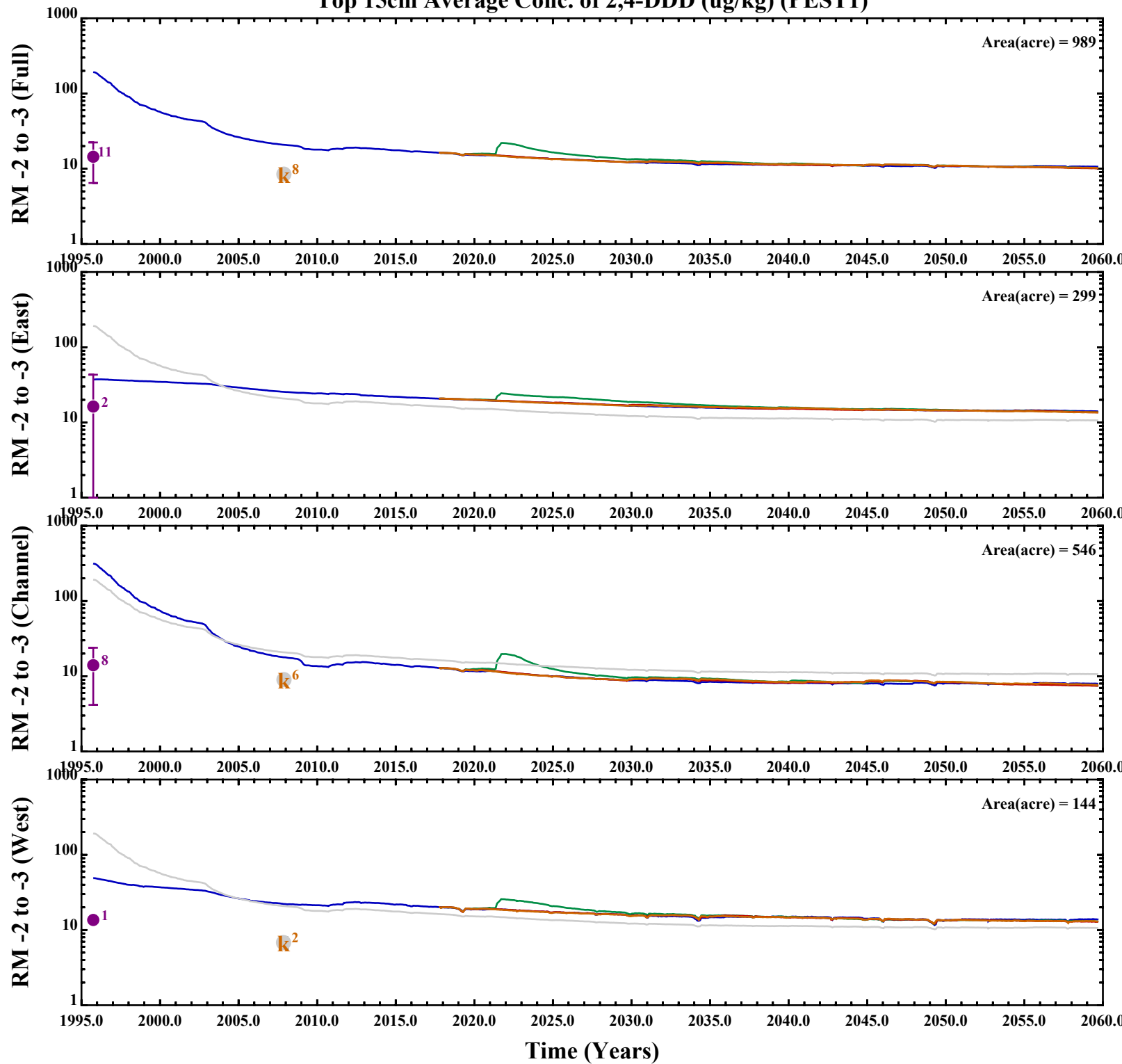
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 Surficial Sediment Investigation
- 1991 Core Sediment Investigation
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- 1994 NS&T Hudson-Raritan Phase II, 1993
- REMAP, 1993
- 1994 Surficial Sediment Investigation
- REMAP, 1994
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
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- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)

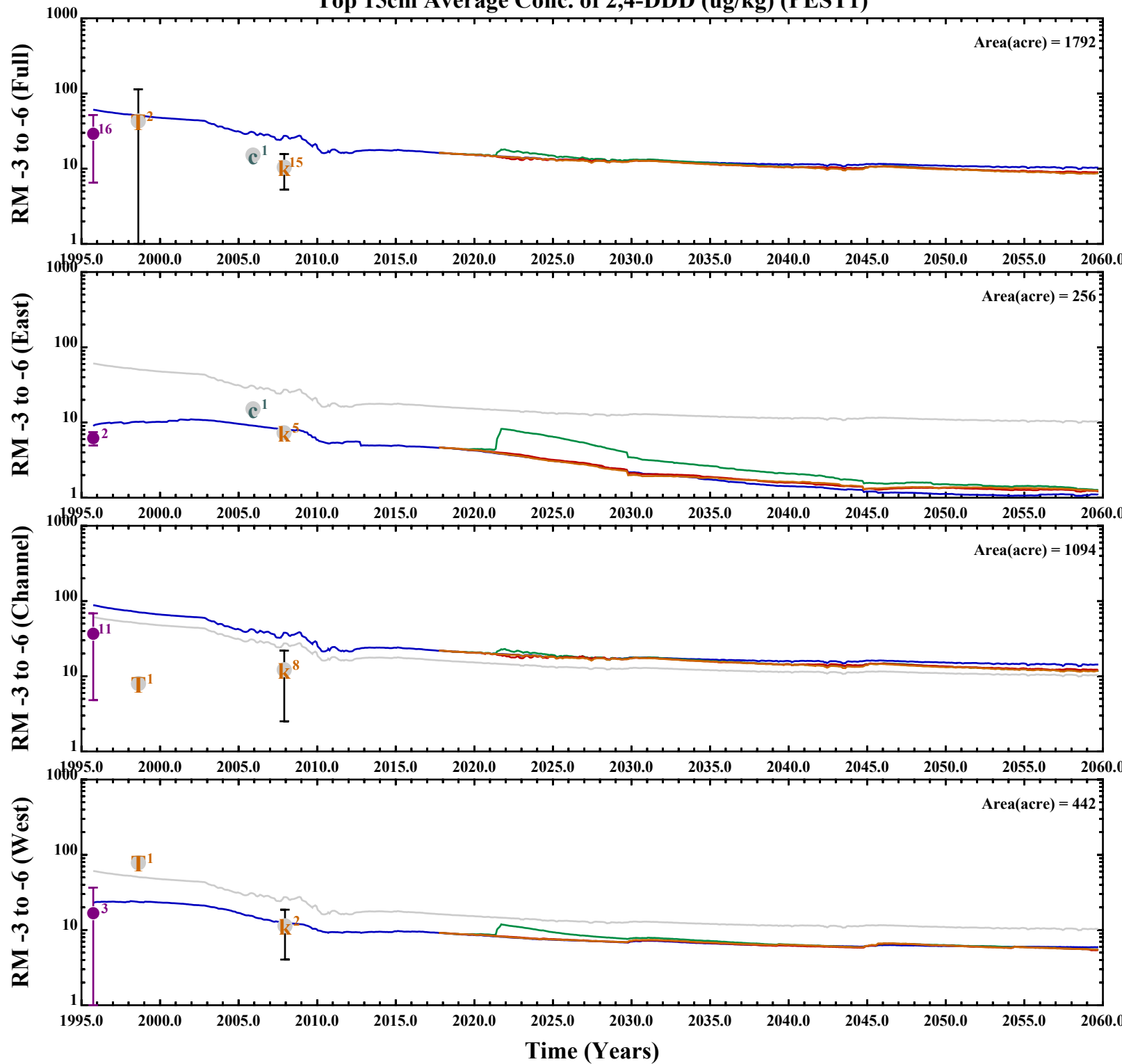


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 1993 USEPA Surficial Sediment Program
- 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
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- 2010 CPG Benthic Sediment Sampling
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- 2012 CDMSmith Background Benthic Sediment
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)



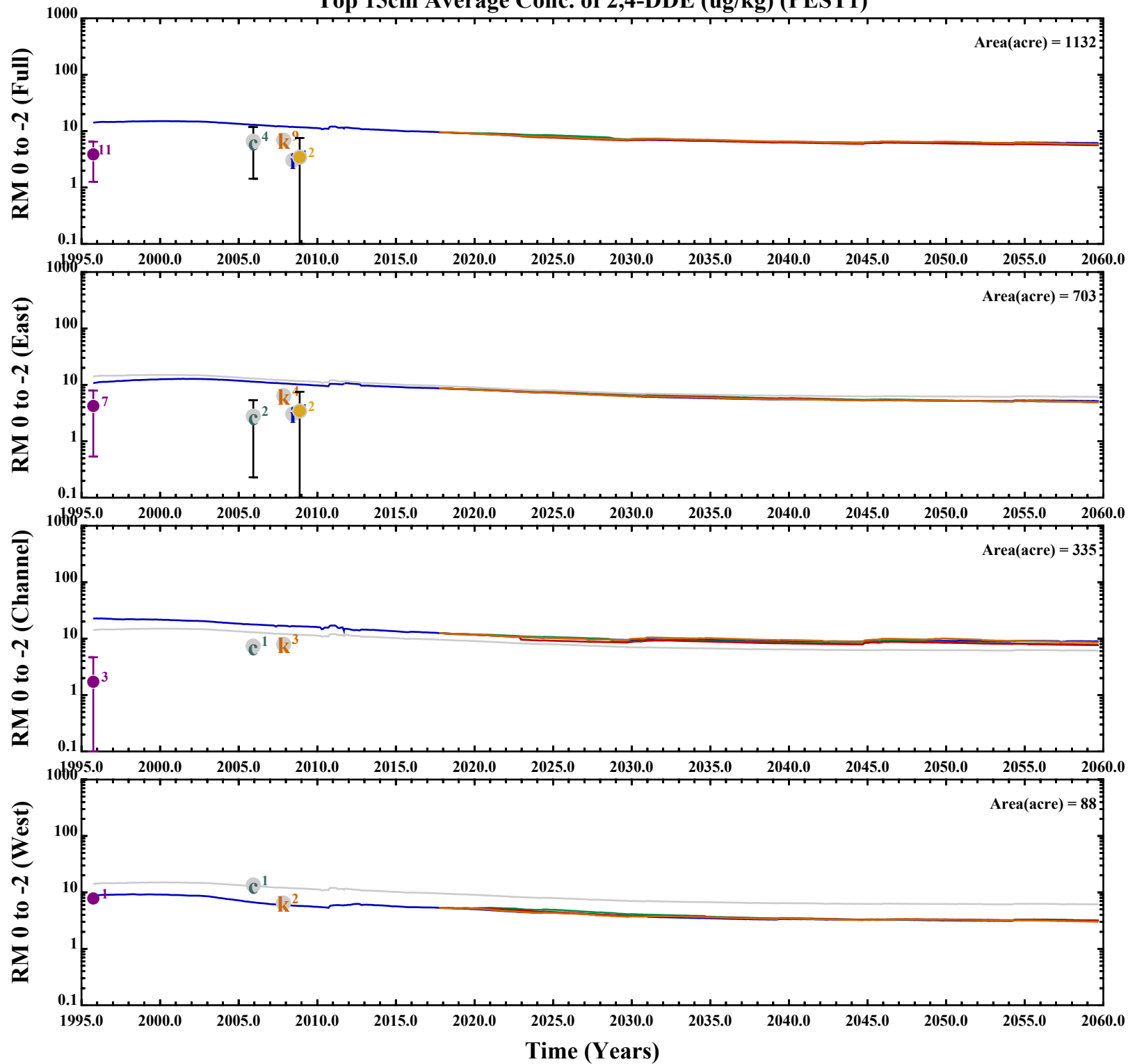
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

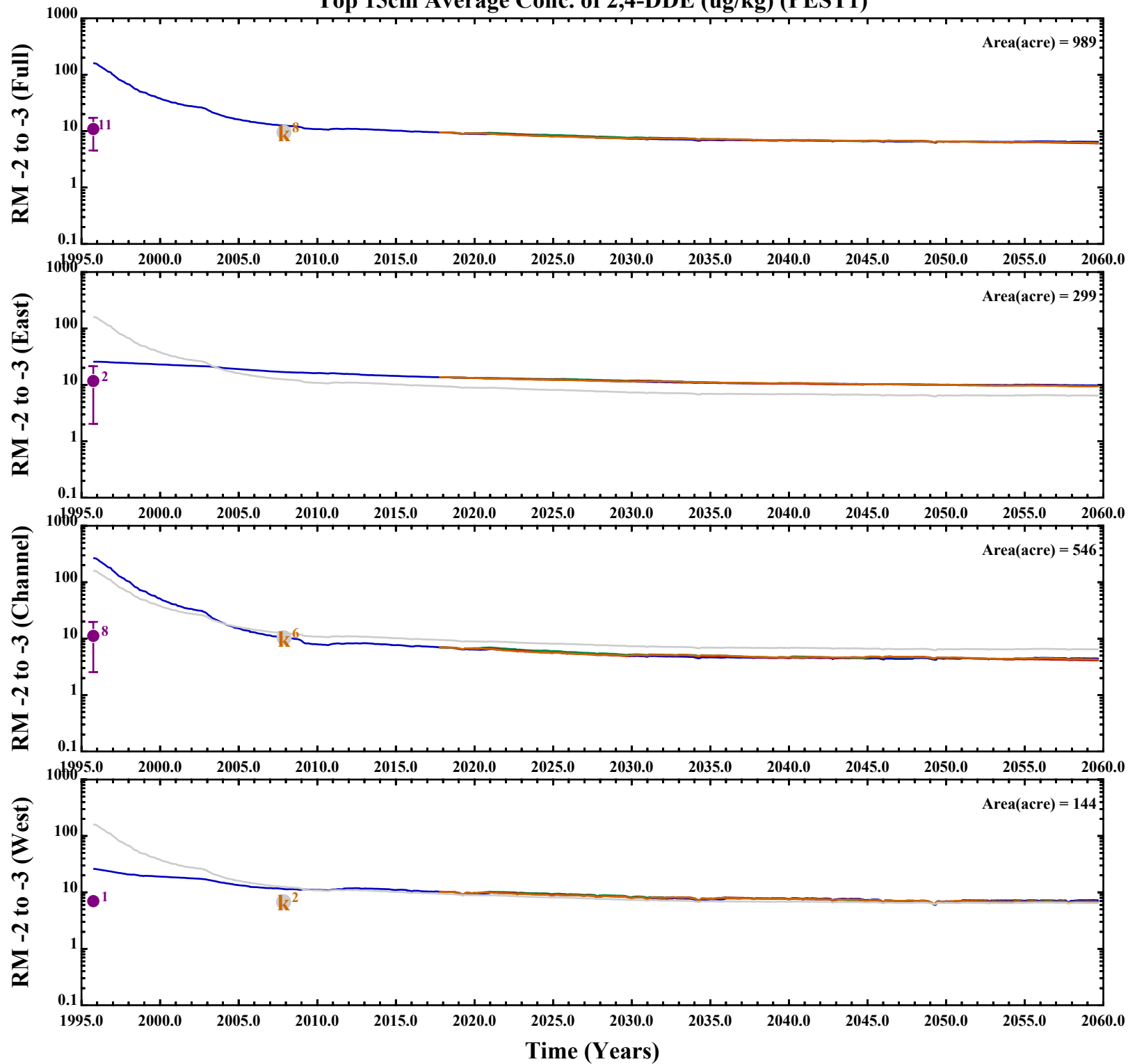
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
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  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

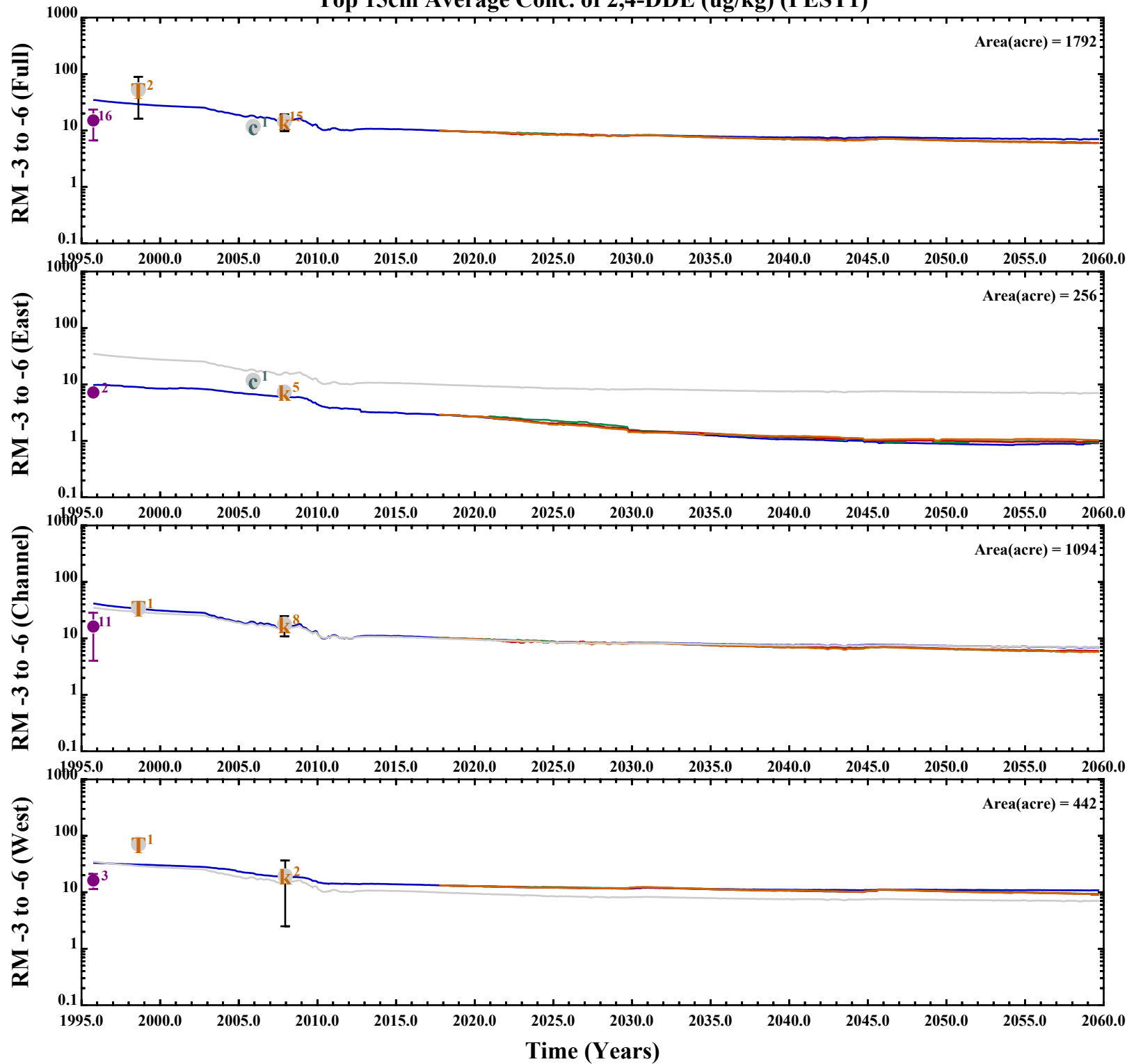
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

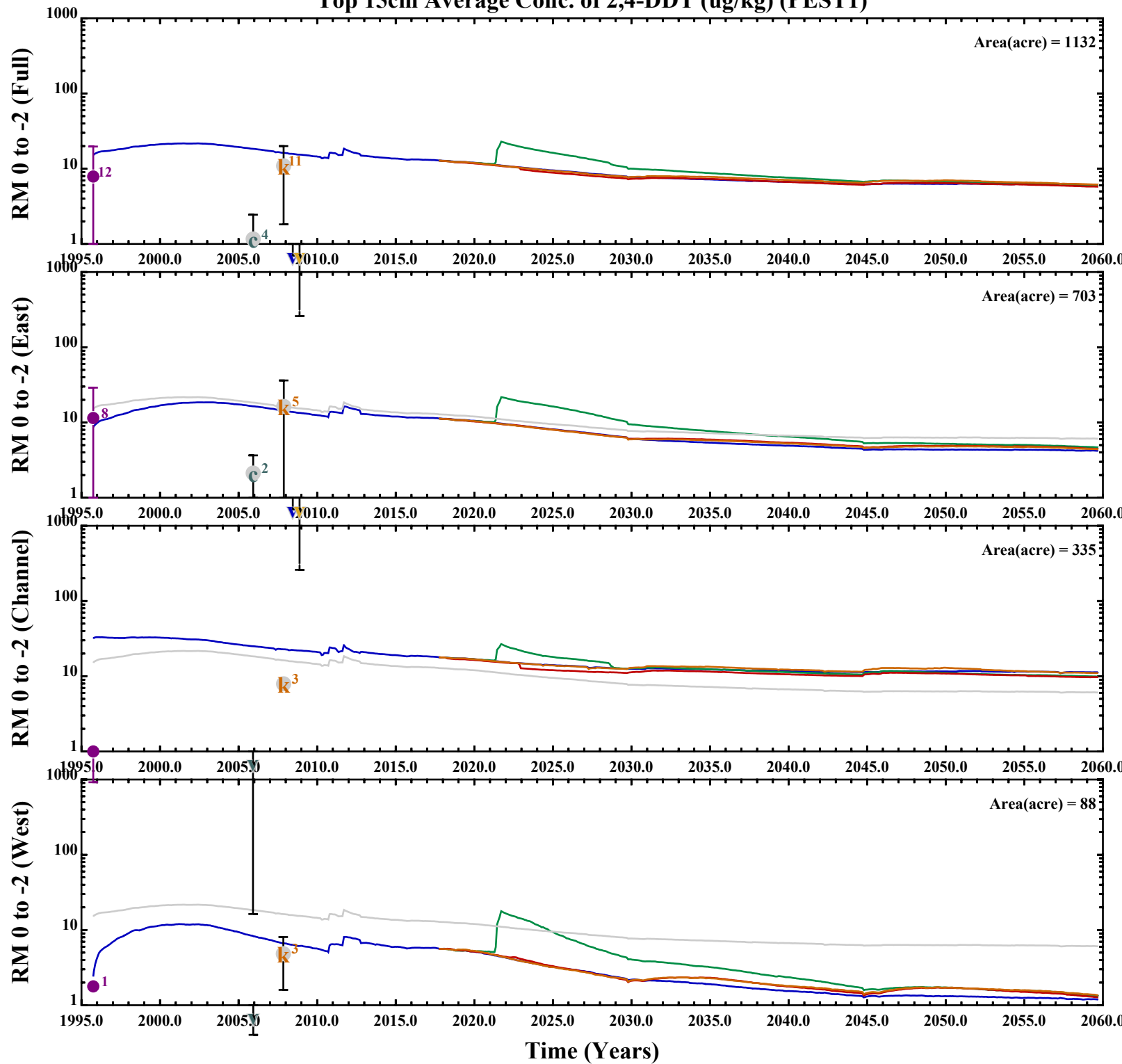
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
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- Full Capping
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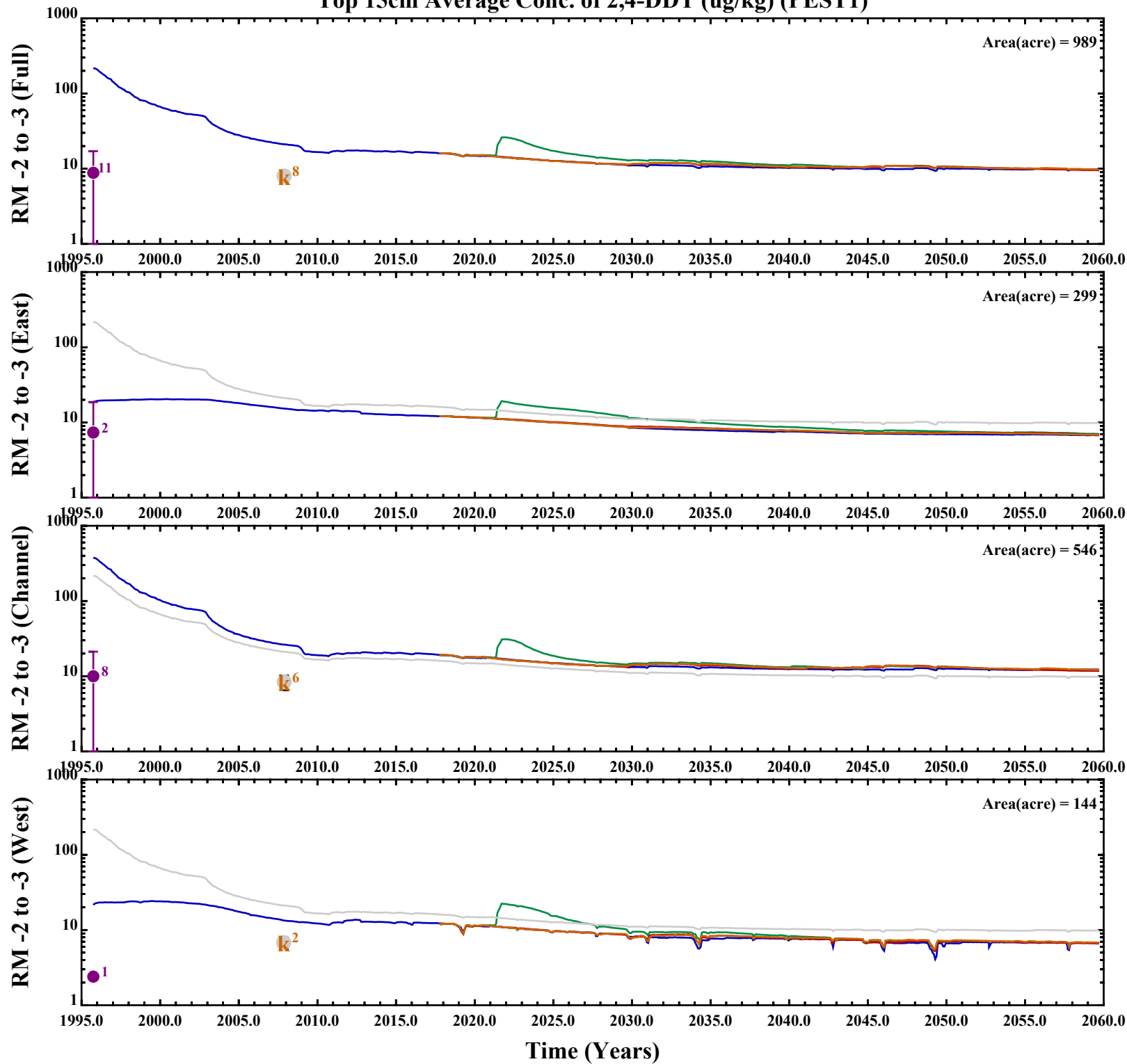
# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990 EPA EMAP 90-92
- 1991 Core Sediment Investigation
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- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

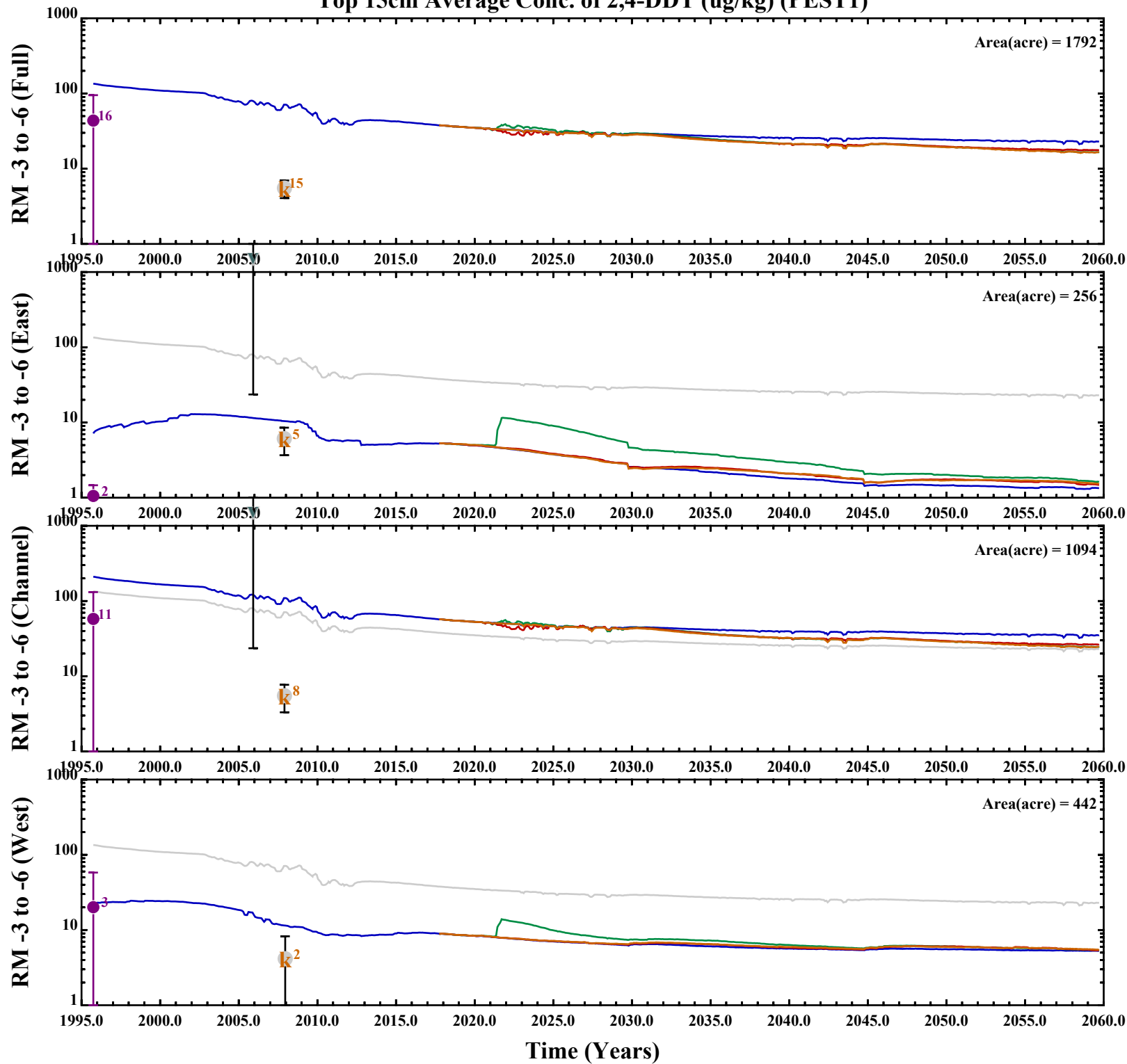
# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991 NOAA NS&T Hudson-Raritan Phase I
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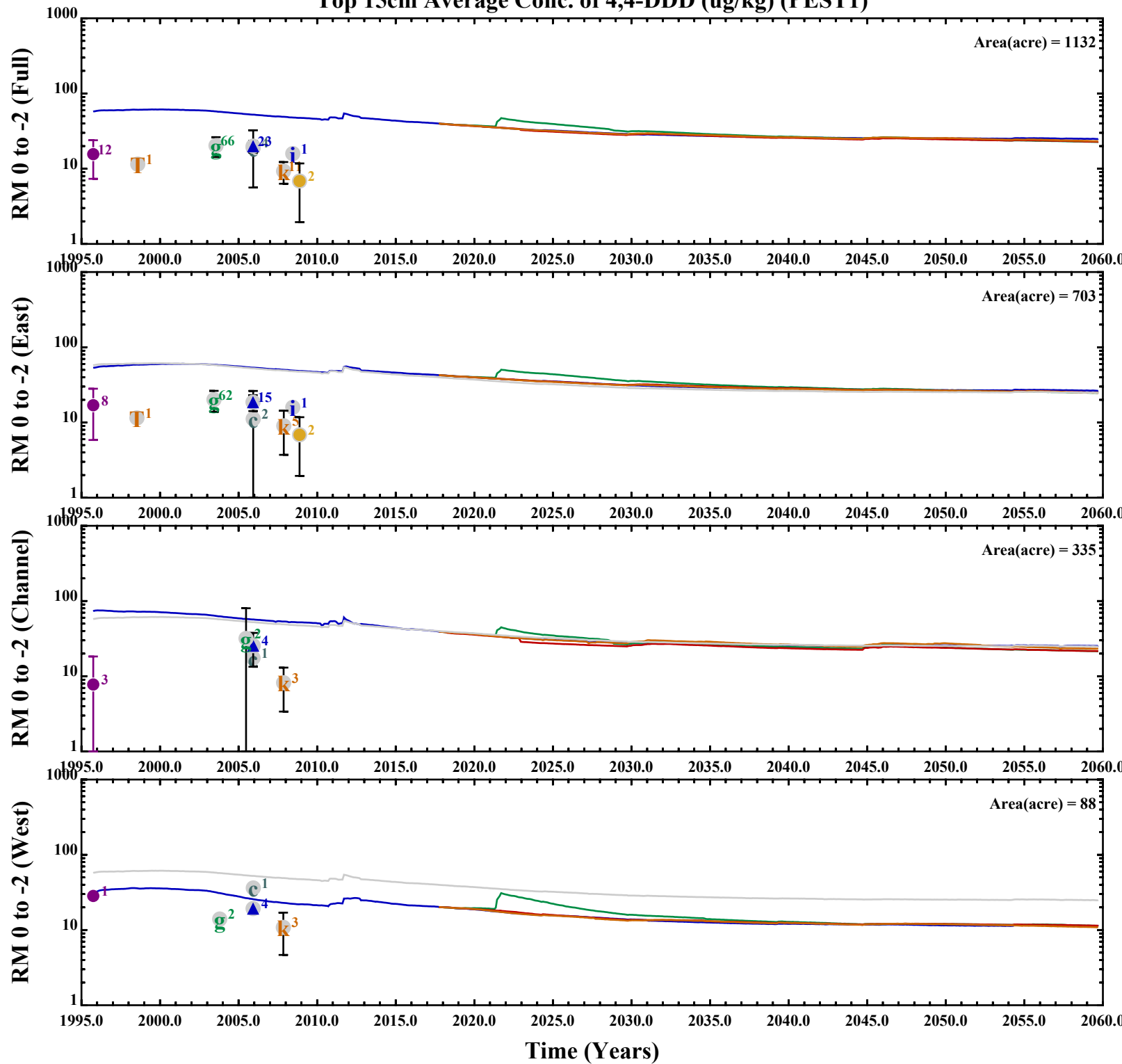
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - 1997 Newark Bay Reach B,C,D Sampling Program
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  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

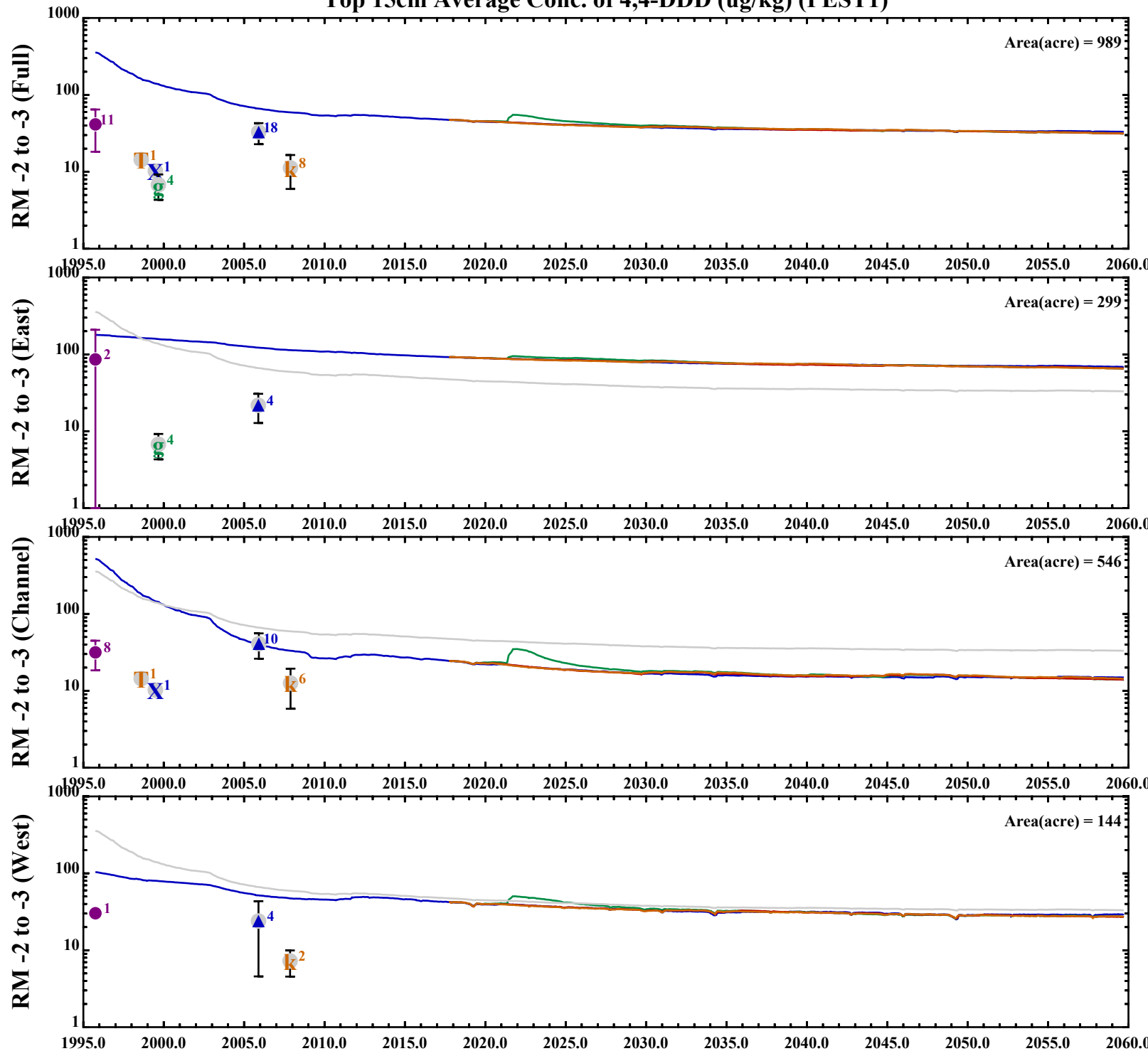
# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - 2010 USEPA-CDM Benthic Oversight
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  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)



# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)

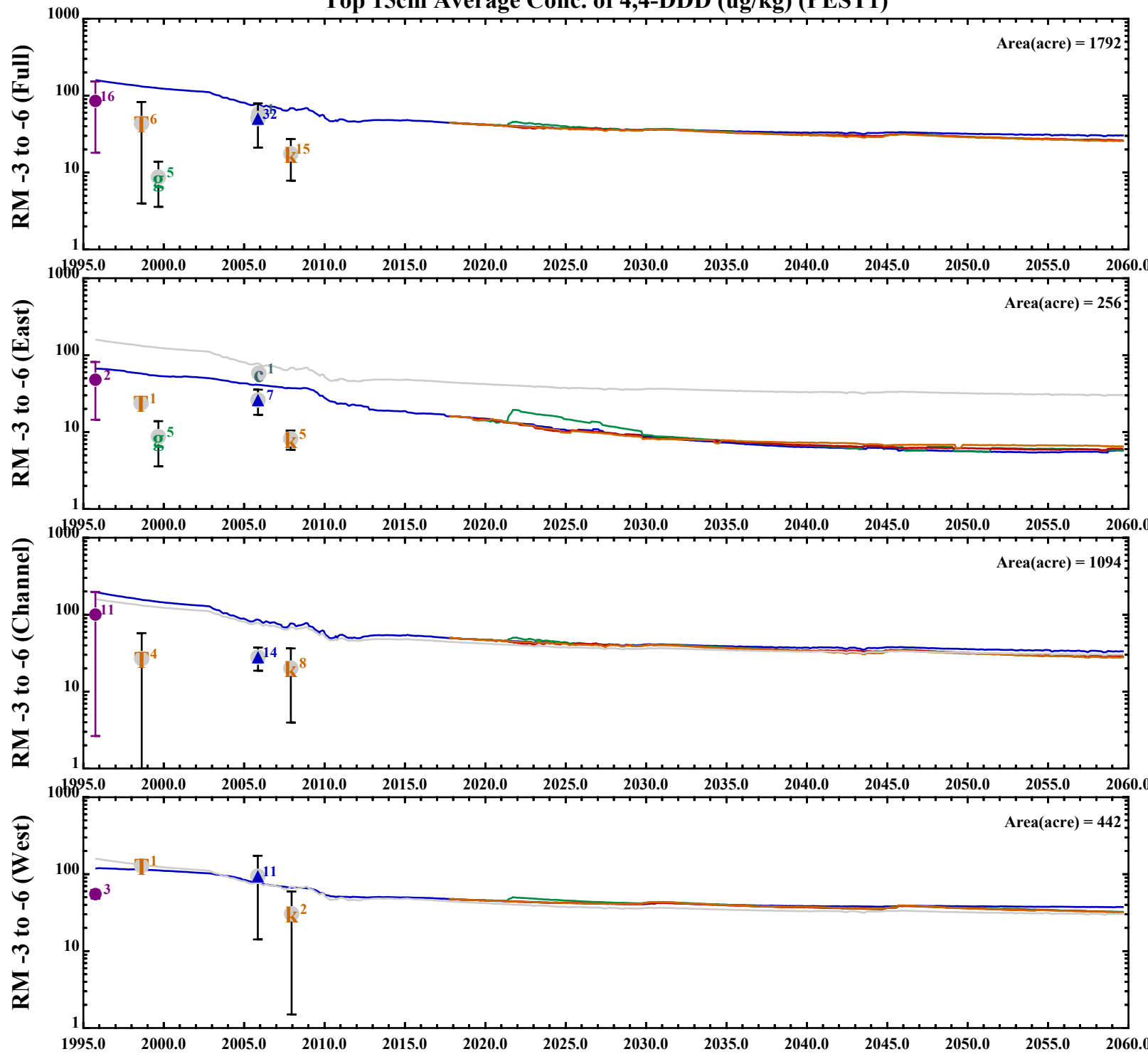


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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)

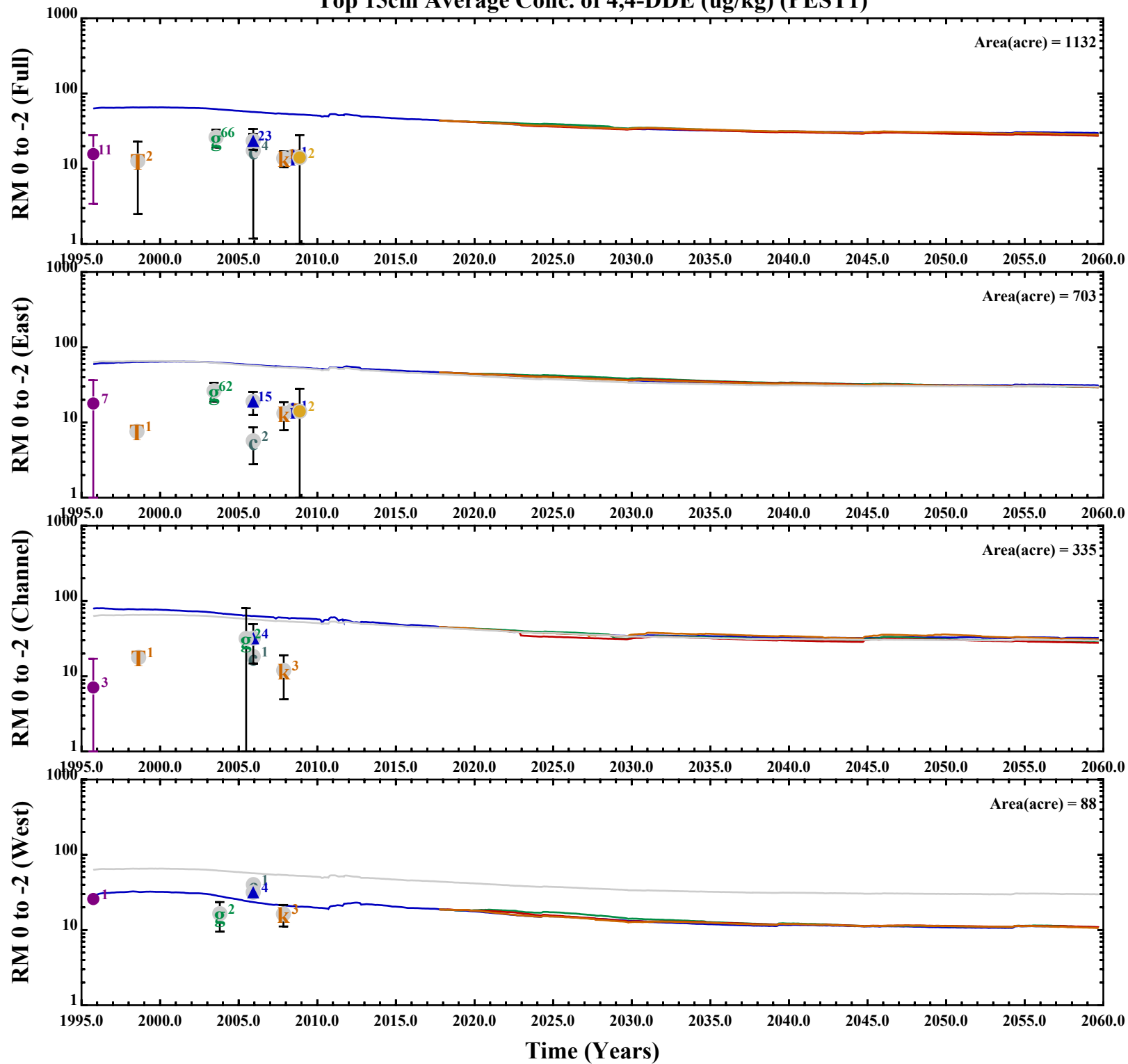


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- ▲ 1990 Surficial Sediment Investigation
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

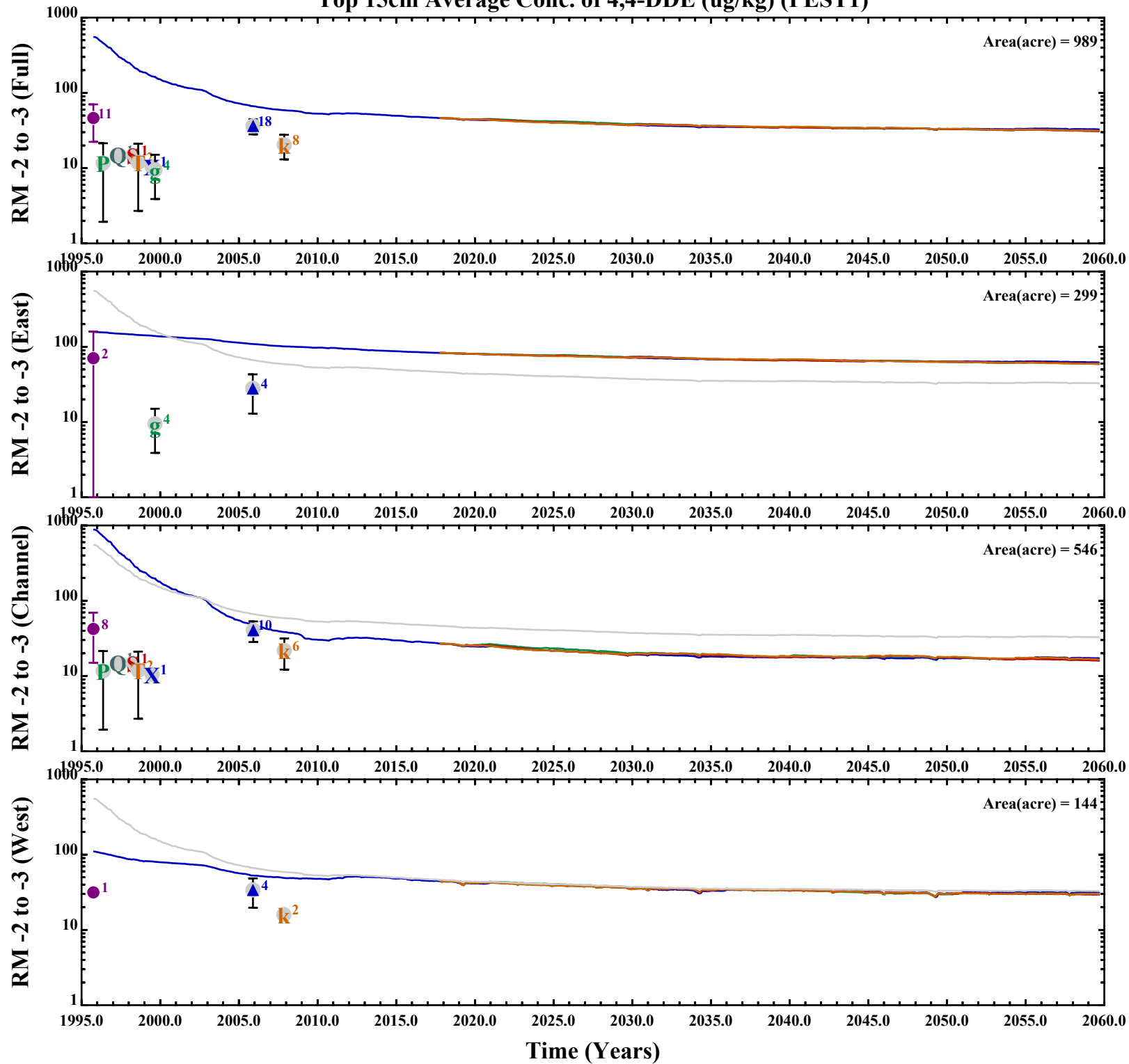
# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

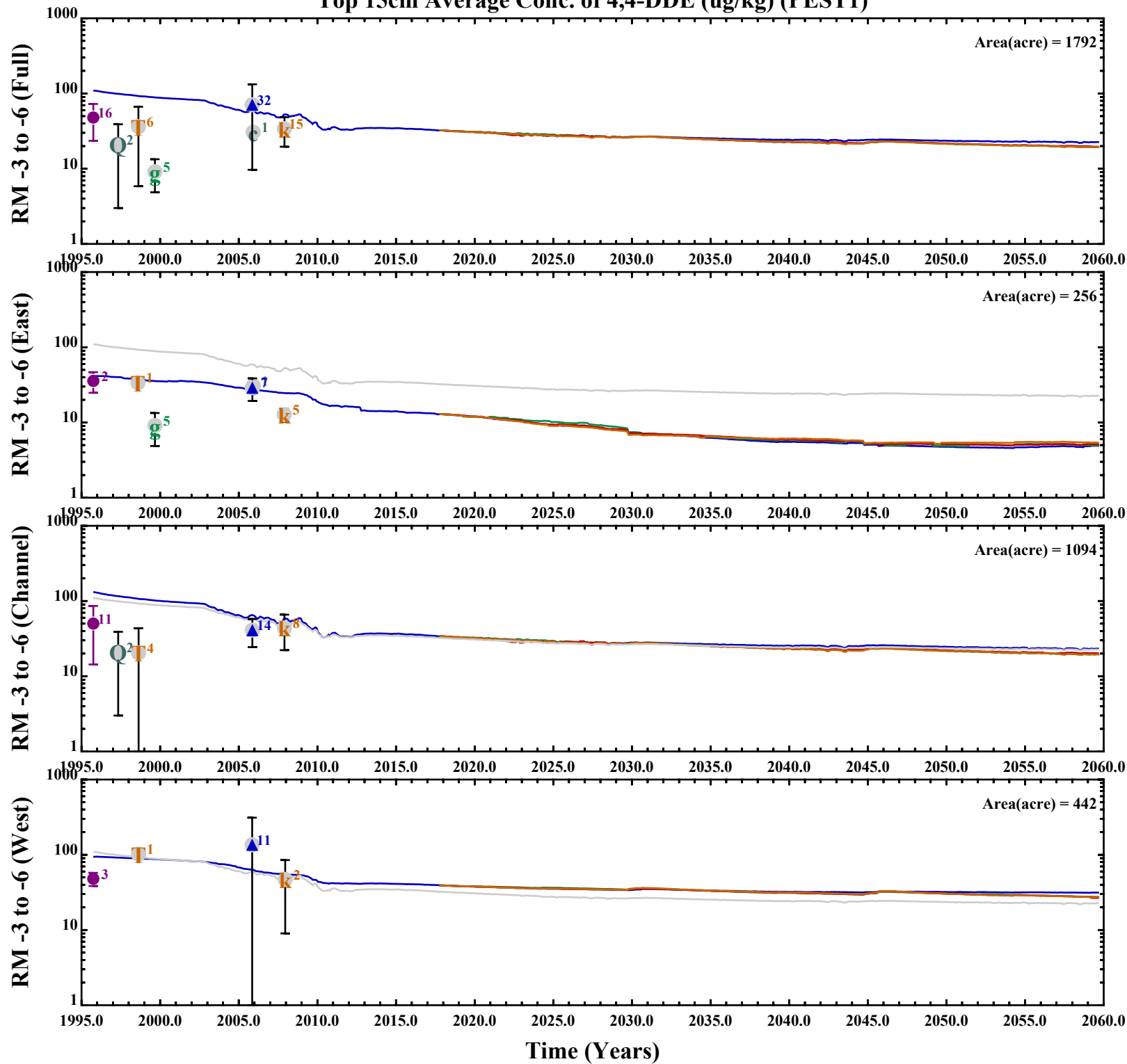
# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

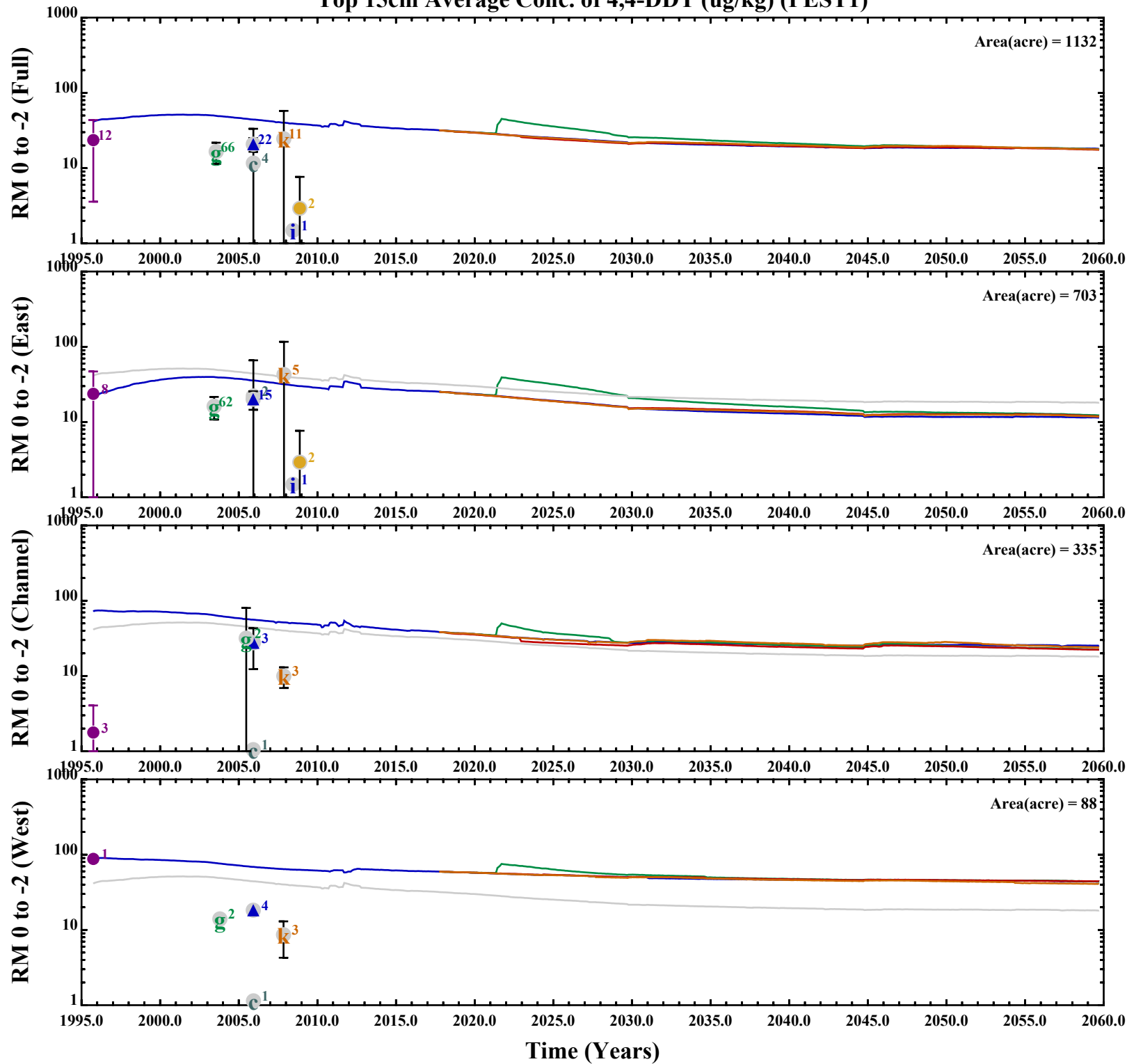
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)



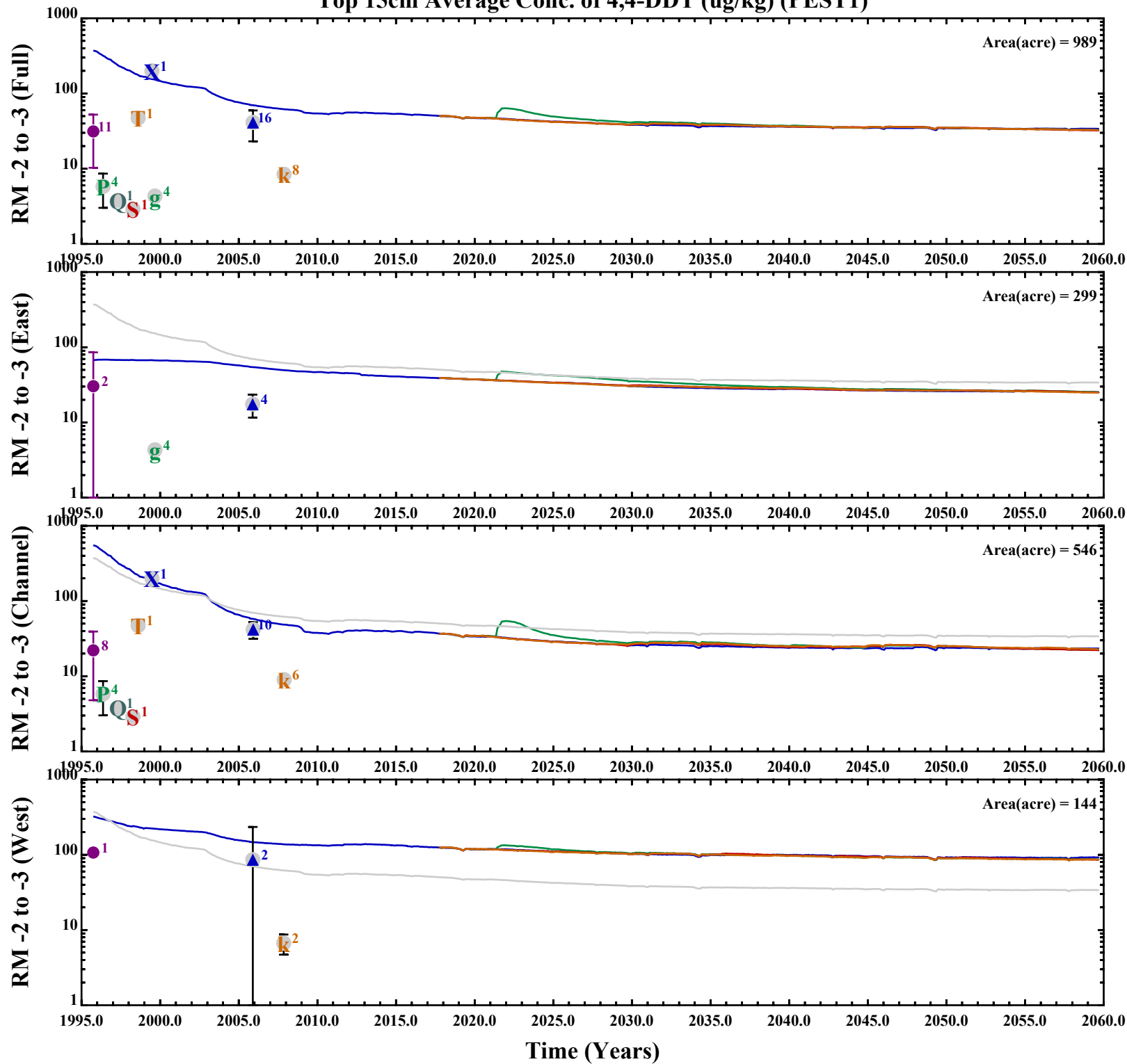
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
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  - 1994 Surficial Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
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  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
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- 
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  - Focused Capping
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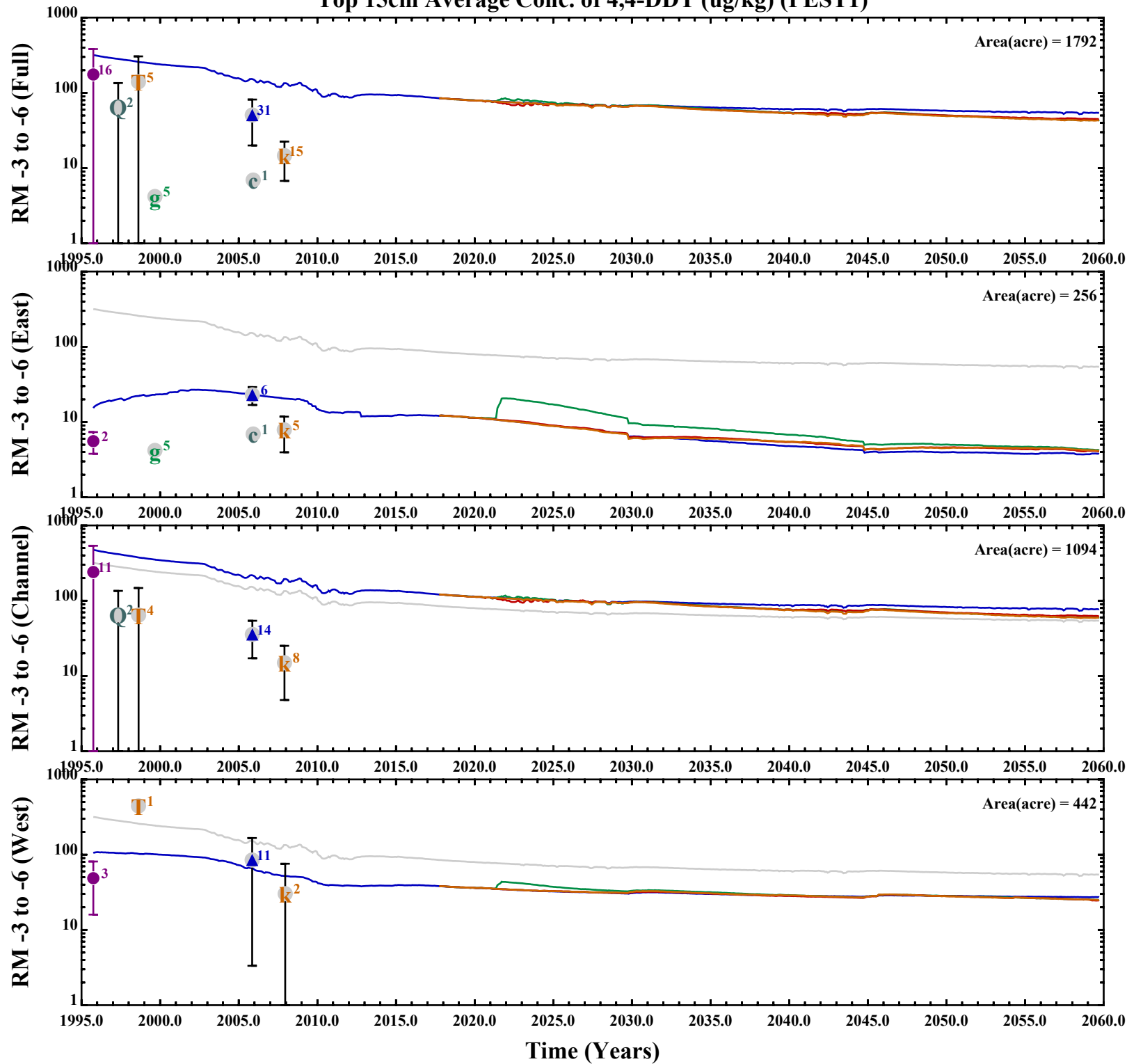
# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
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- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
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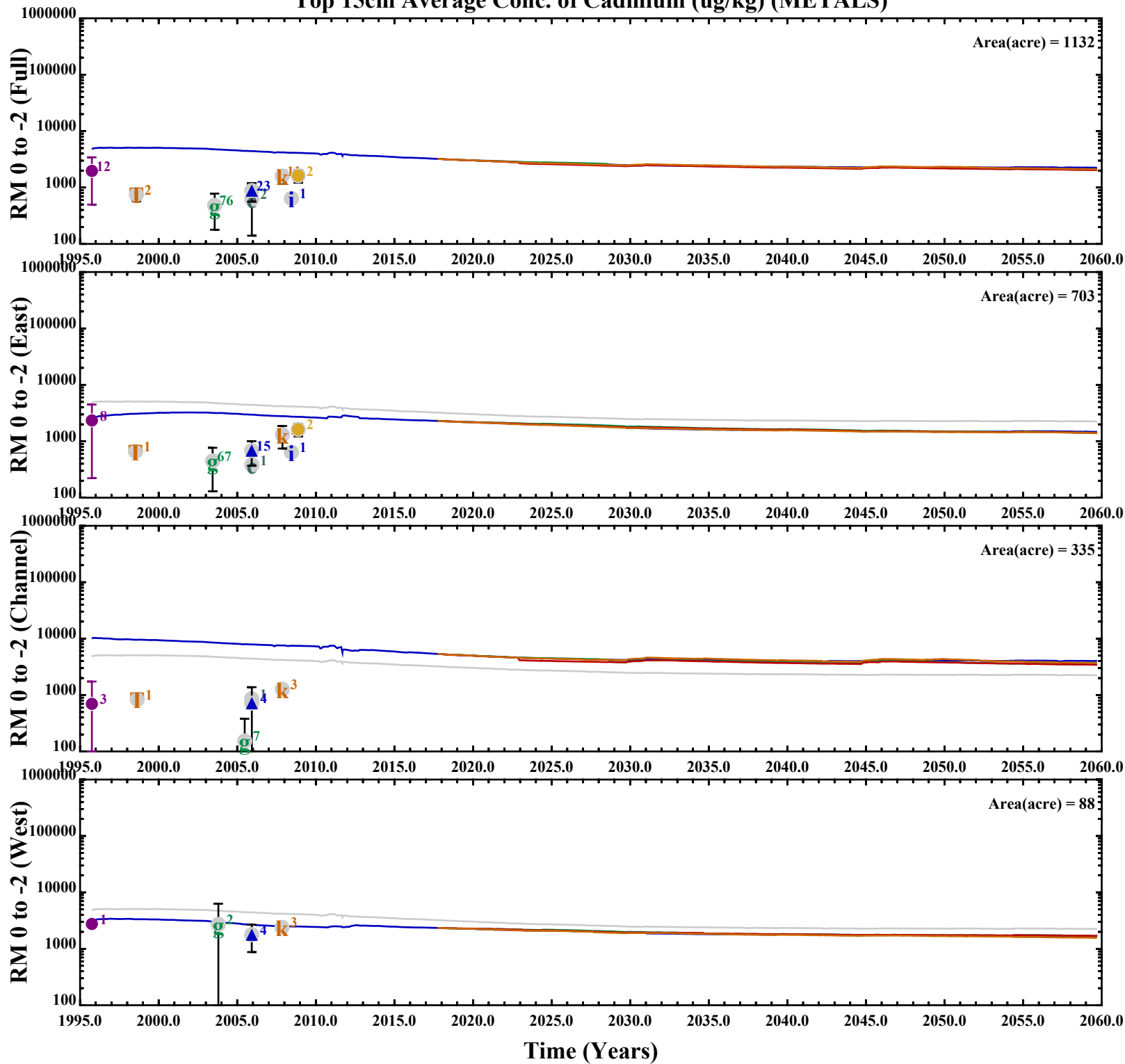
# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)



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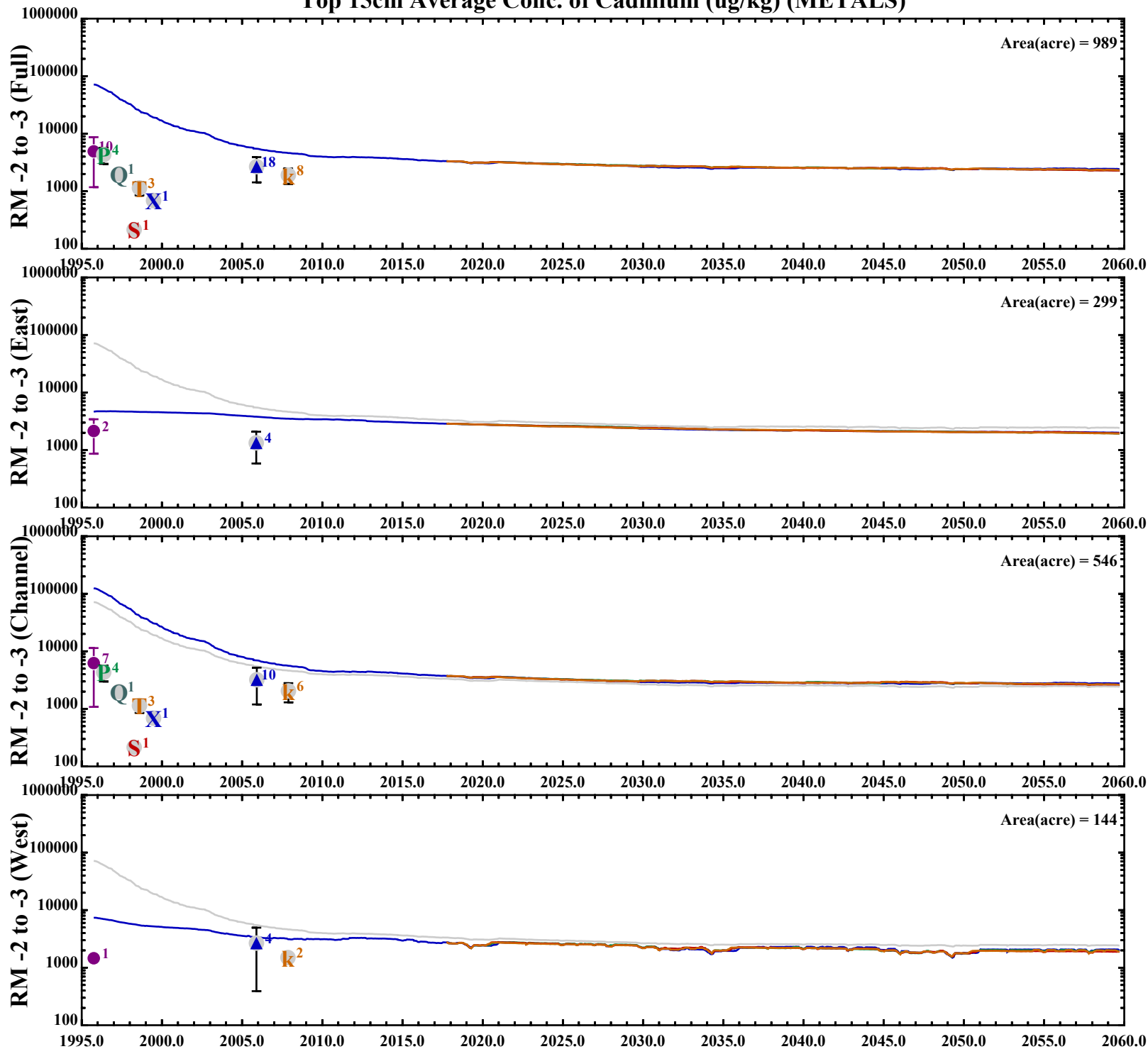


# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



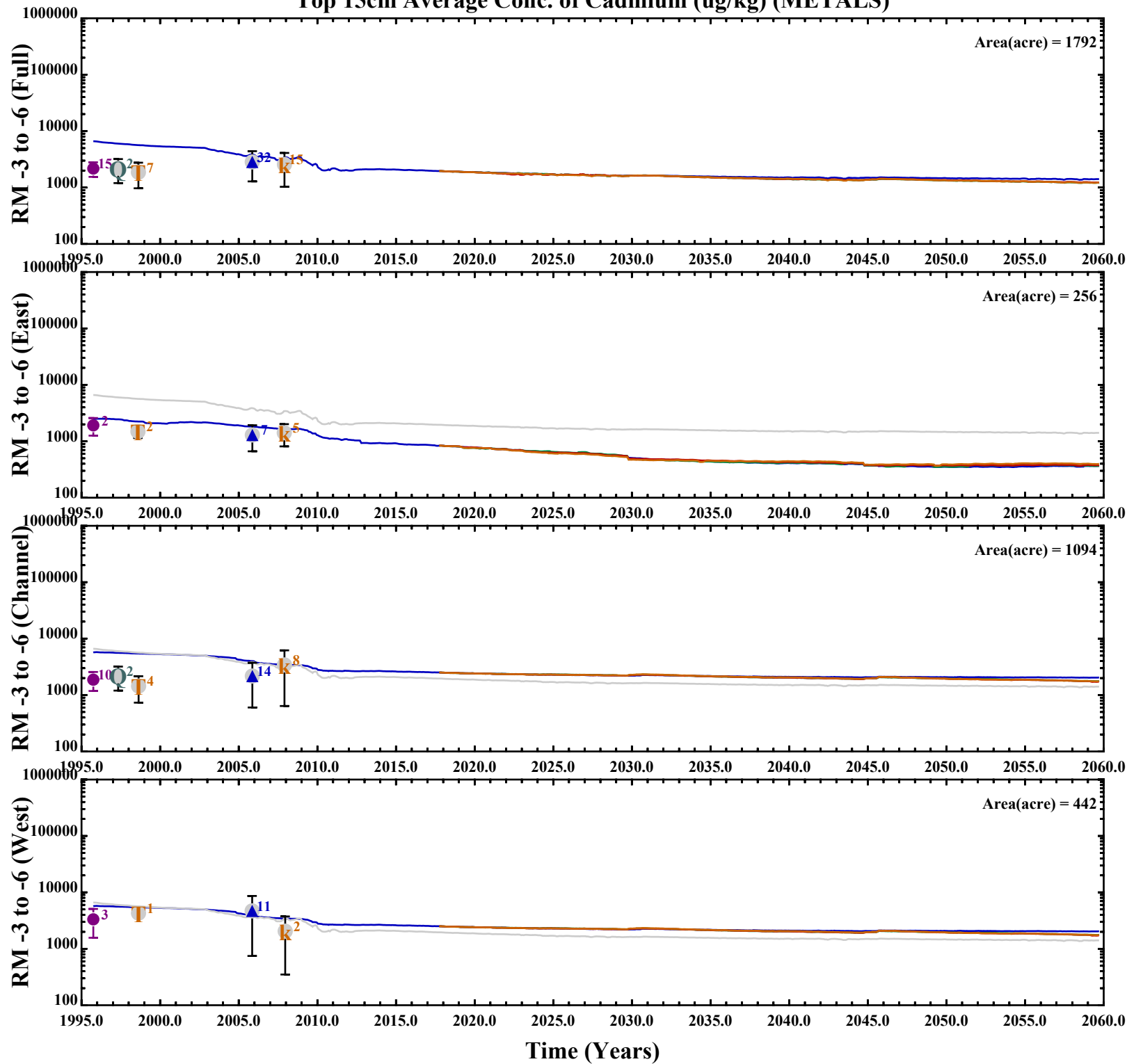
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  - 1994 Surficial Sediment Investigation
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  - Full Capping
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  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



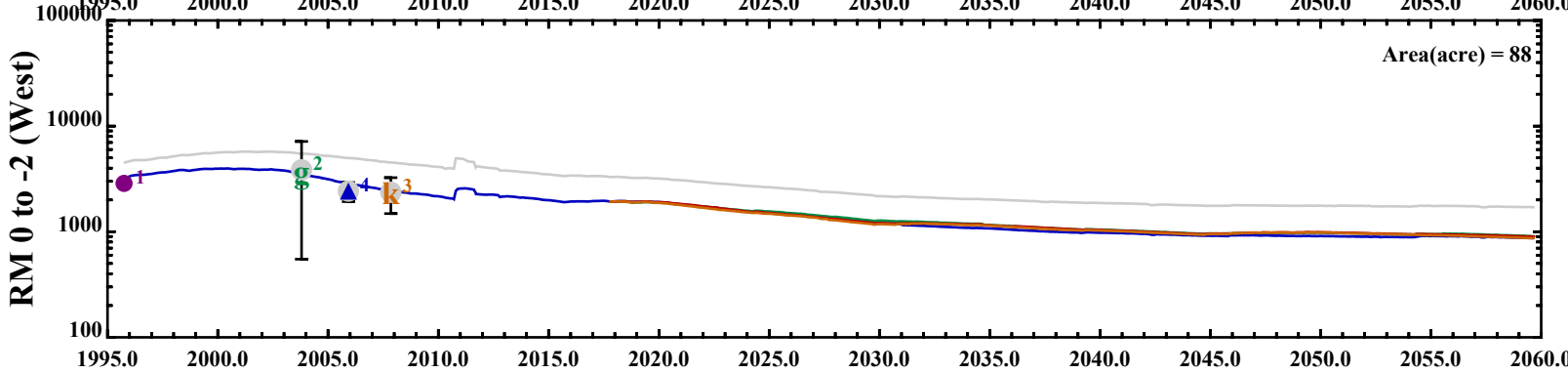
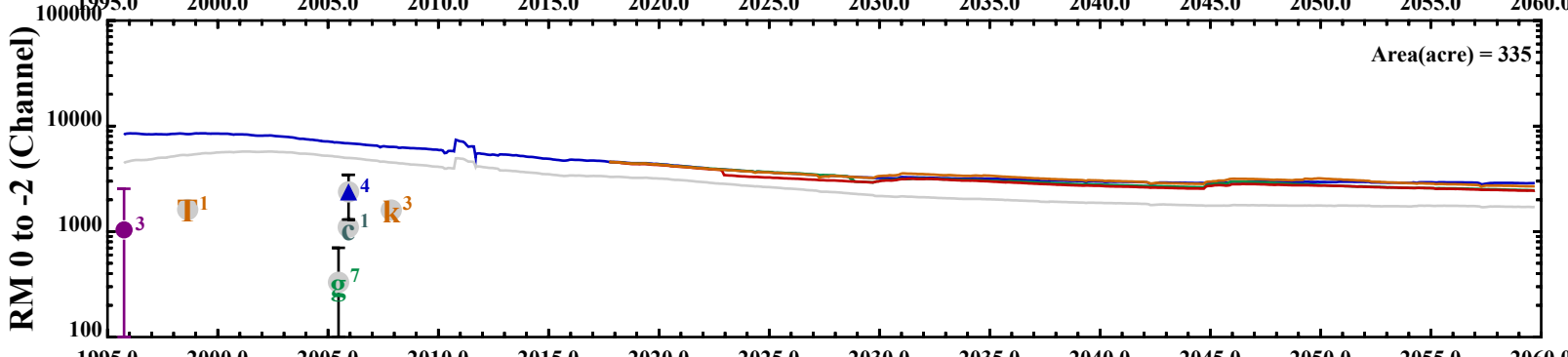
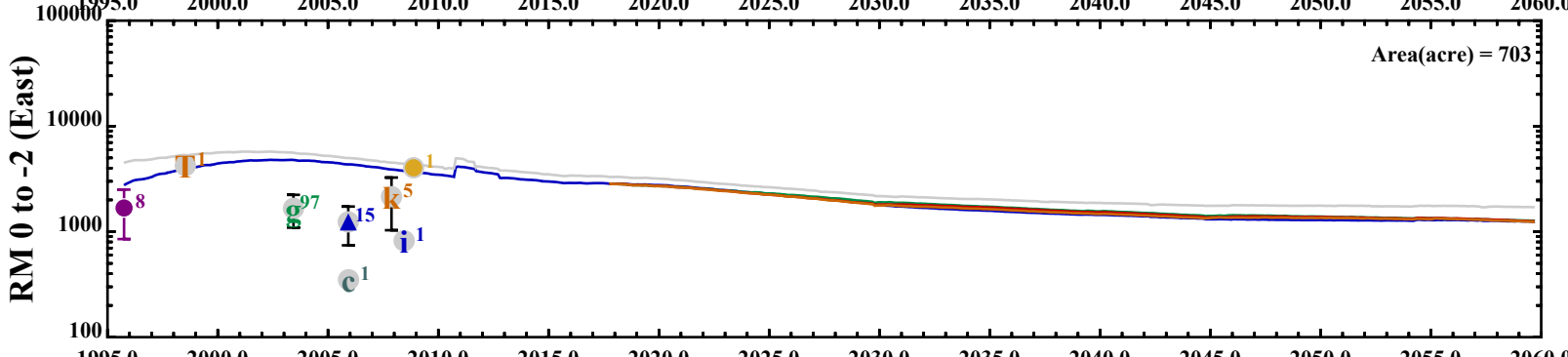
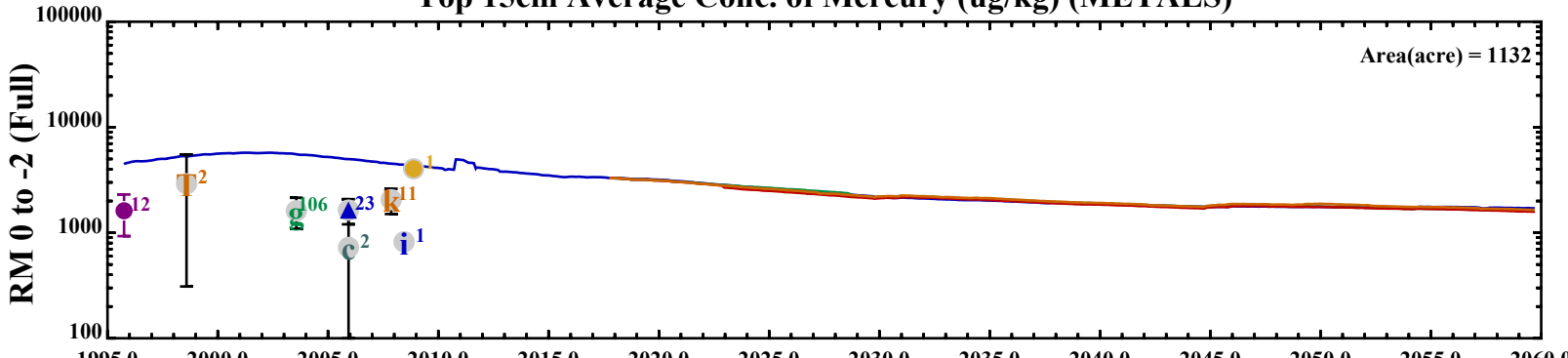
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background Benthic Sediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - 1993 Core Sediment Investigation - 01 (March)
  - 1993 Core Sediment Investigation - 02 (July)
  - USEPA Surficial Sediment Program
  - NOAA NS&T Hudson-Raritan Phase II, 1993
  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
  - 1995 USACE Minish Park Investigation
  - 1996 Newark Bay Reach A Sediment Sampling Program
  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
  - REMAP, 1998
  - 1999 Late Summer/Early Fall ESP Sampling Program
  - 1999 Prelim Toxicity Identification Eval
  - 1999/2000 Minish Park Monitoring Program
  - 2000 Spring ESP Sampling Program
  - 2000 Toxicity Identification Evaluation
  - 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - 2005 USEPA-MPI High Res Sediment Core
  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
  - 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - 2009 CPG Benthic Sediment Study
  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)

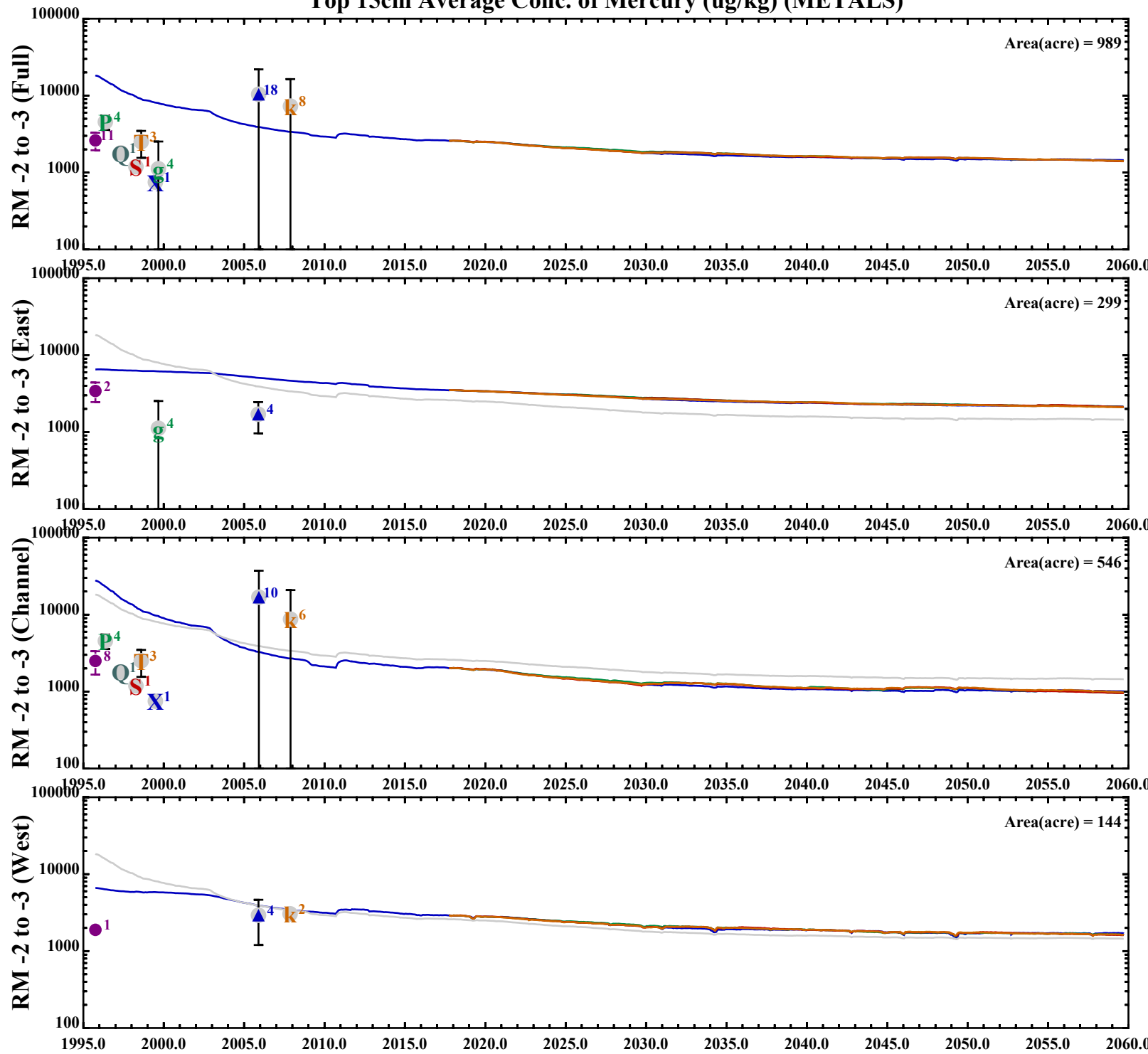


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- 1990-92 EPA EMAP
- 1991 Core Sediment Investigation
- 1991-92 NOAA NS&T Hudson-Raritan Phase I
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
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- 1993 NOAA NS&T Hudson-Raritan Phase II
- 1993 REMAP
- 1994 Surficial Sediment Investigation
- 1994 REMAP
- 1995 RI Sampling Program
- 1995 Sediment Grab Sampling Program
- 1995 USACE Minish Park Investigation
- 1996 Newark Bay Reach A Sediment Sampling Program
- 1997 Newark Bay Reach B,C,D Sampling Program
- 1998 Newark Bay Elizabeth Channel Sampling Program
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- 1999/2000 Minish Park Monitoring Program
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- ▲ 2005 MPI - Newark Bay Phase I Oversight
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- 2005 HRSA RI Sampling Program
- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
- 2007 Newark Bay Phase II TSI Sediment Samples
- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background Benthic Sediment
- 2012 CDMSmith LowRes Coring Supplemental
- 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

Time (Years)

# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)

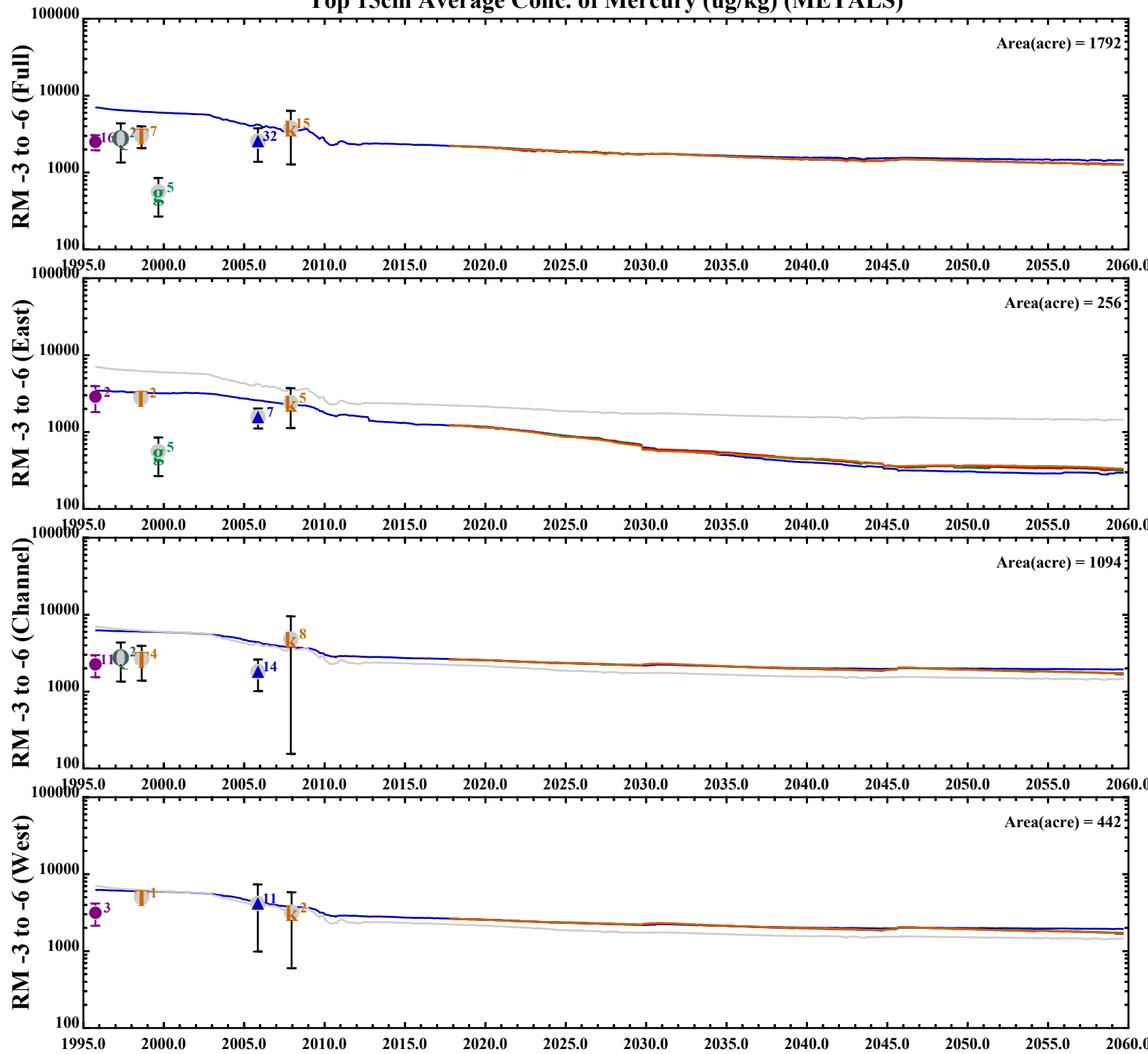


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- EPA EMAP 90-92
- 1991 Core Sediment Investigation
- NOAA NS&T Hudson-Raritan Phase I, 1991
- 1992 Core Sediment Investigation
- 1993 Core Sediment Investigation - 01 (March)
- 1993 Core Sediment Investigation - 02 (July)
- 1993 USEPA Surficial Sediment Program
- NOAA NS&T Hudson-Raritan Phase II, 1993
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- 1994 Surficial Sediment Investigation
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- 1999-2006 Honeywell Intl Sampling
- 2007 USEPA-MPI-EMBM Sediment Samples
- 2007 USEPA-MPI Dundee High Res Core
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- 2008 CPG Low Resolution Sediment Coring
- 2009 CPG Benthic Sediment Study
- 2009 USEPA-MPI Benthic Oversight
- 2010 CPG Benthic Sediment Sampling
- 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- 2012 CDMSmith Background BenthicSediment
- 2012 CDMSmith LowRes Coring Supplemental
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- 2012 CPG Low Res Coring Supplemental
- 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)

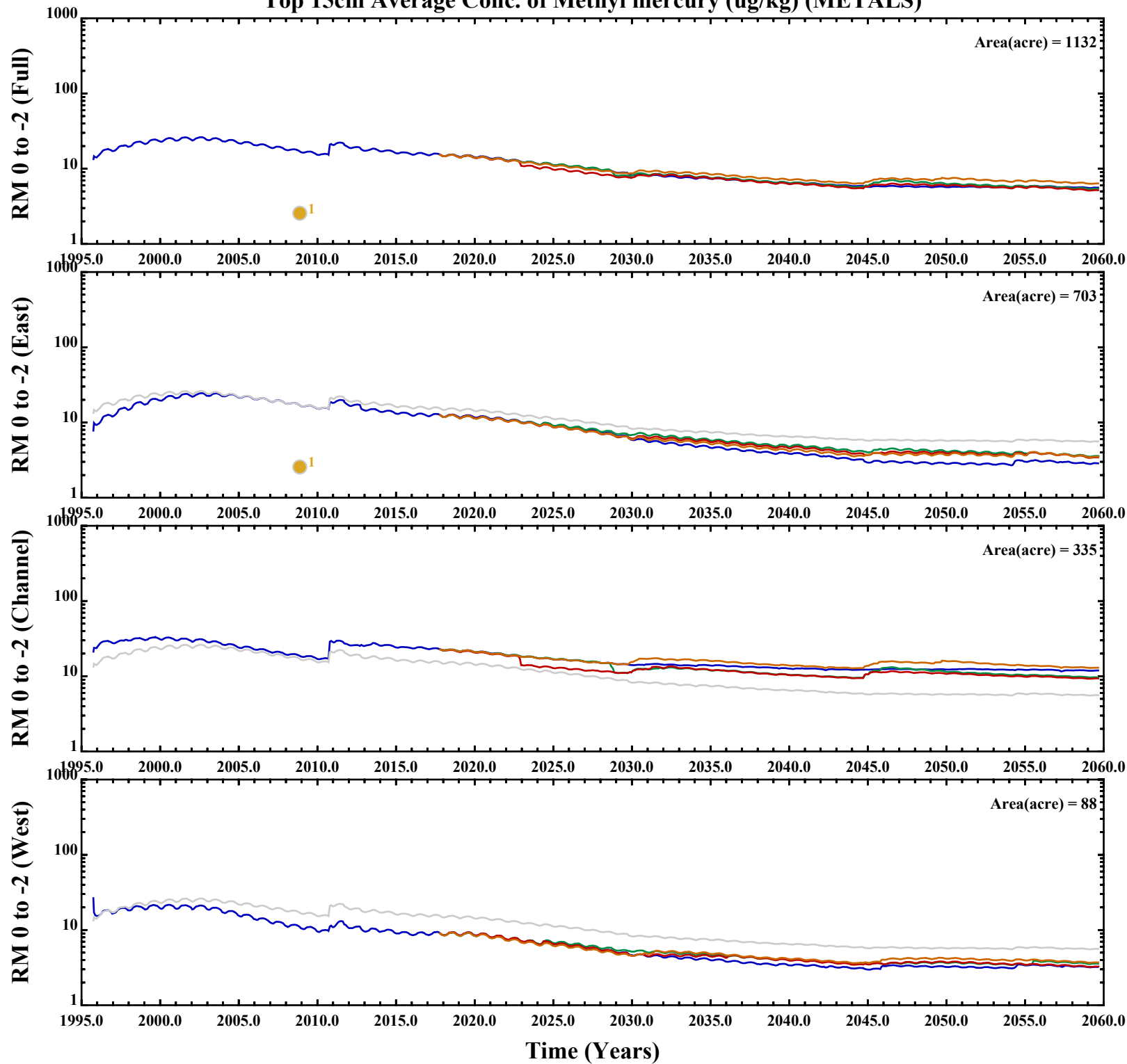
Time (Years)

# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)



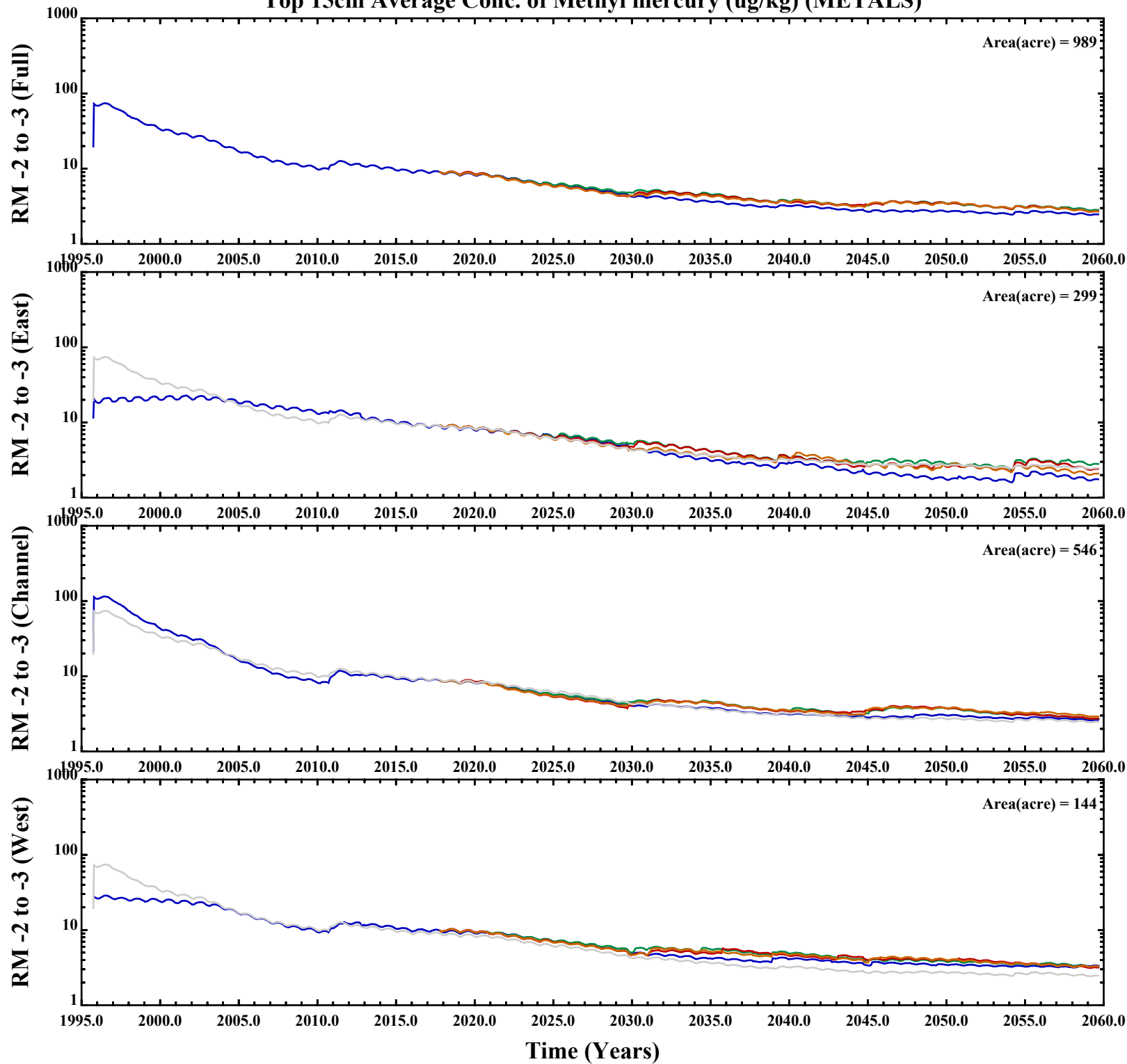
- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - EPA EMAP 90-92
  - 1991 Core Sediment Investigation
  - NOAA NS&T Hudson-Raritan Phase I, 1991
  - 1992 Core Sediment Investigation
  - ▲ 1993 Core Sediment Investigation - 01 (March)
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  - REMAP, 1993
  - 1994 Surficial Sediment Investigation
  - REMAP, 1994
  - 1995 RI Sampling Program
  - 1995 Sediment Grab Sampling Program
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  - 1997 Newark Bay Reach B,C,D Sampling Program
  - 1998 Newark Bay Elizabeth Channel Sampling Program
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  - 1999 Late Summer/Early Fall ESP Sampling Program
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  - 2000 Spring ESP Sampling Program
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  - 2006 HRSA RI Sampling Program
  - 1999-2006 Honeywell Intl Sampling
  - 2007 USEPA-MPI-EMBM Sediment Samples
  - 2007 USEPA-MPI Dundee High Res Core
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  - 2009 USEPA-MPI Benthic Oversight
  - 2010 CPG Benthic Sediment Sampling
  - 2010 USEPA-CDM Benthic Oversight
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  - 2012 CDMSmith Background BenthicSediment
  - 2012 CDMSmith LowRes Coring Supplemental
  - 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
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  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background BenthicSediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)

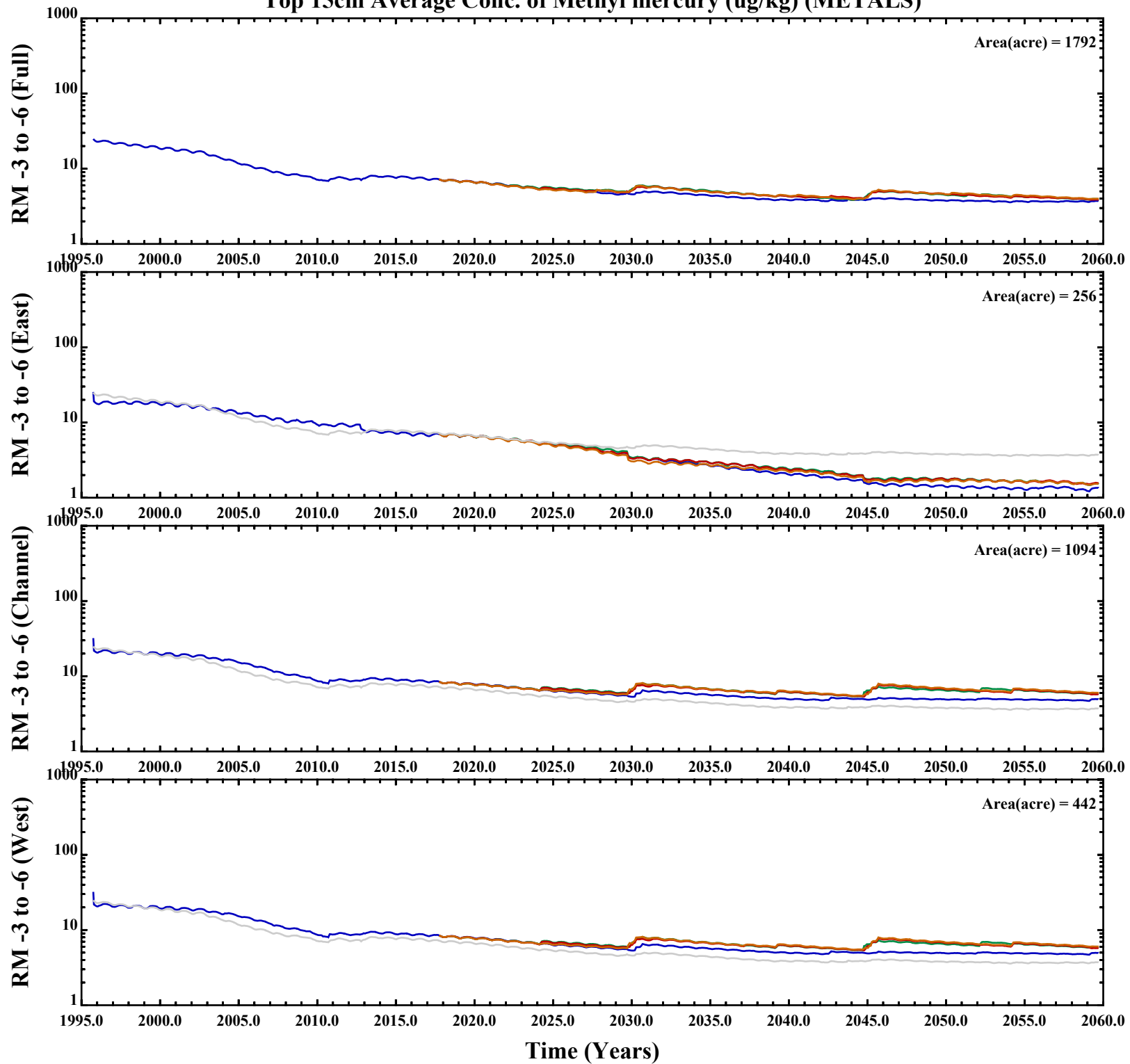


- Data used for ICs
- ▲ 1990 Surficial Sediment Investigation
- B EPA EMAP 90-92
- C 1991 Core Sediment Investigation
- D NOAA NS&T Hudson-Raritan Phase I, 1991
- E 1992 Core Sediment Investigation
- F 1993 Core Sediment Investigation - 01 (March)
- G 1993 Core Sediment Investigation - 02 (July)
- H 1993 USEPA Surficial Sediment Program
- I NOAA NS&T Hudson-Raritan Phase II, 1993
- J REMAP, 1993
- K 1994 Surficial Sediment Investigation
- L REMAP, 1994
- M 1995 RI Sampling Program
- N 1995 Sediment Grab Sampling Program
- O 1995 USACE Minish Park Investigation
- P 1996 Newark Bay Reach A Sediment Sampling Program
- Q 1997 Newark Bay Reach B,C,D Sampling Program
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- T REMAP, 1998
- U 1999 Late Summer/Early Fall ESP Sampling Program
- X 1999 Prelim Toxicity Identification Eval
- Y 1999/2000 Minish Park Monitoring Program
- a 2000 Spring ESP Sampling Program
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- c 2005 MPI - Newark Bay Phase I Oversight
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- m 2009 CPG Benthic Sediment Study
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- p 2010 CPG Benthic Sediment Sampling
- q 2010 USEPA-CDM Benthic Oversight
- 2011 CPG River Mile 10.9 Data
- r 2012 CDMSmith Background Benthic Sediment
- s 2012 CDMSmith LowRes Coring Supplemental
- t 2012 CPG Background Benthic Sediment
- ▼ 2012 CPG Low Res Coring Supplemental
- u 2012 CPG River Mile 10.9 Data

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping
- No Action Gradient IC, Reach Scale Up (Full Reach)



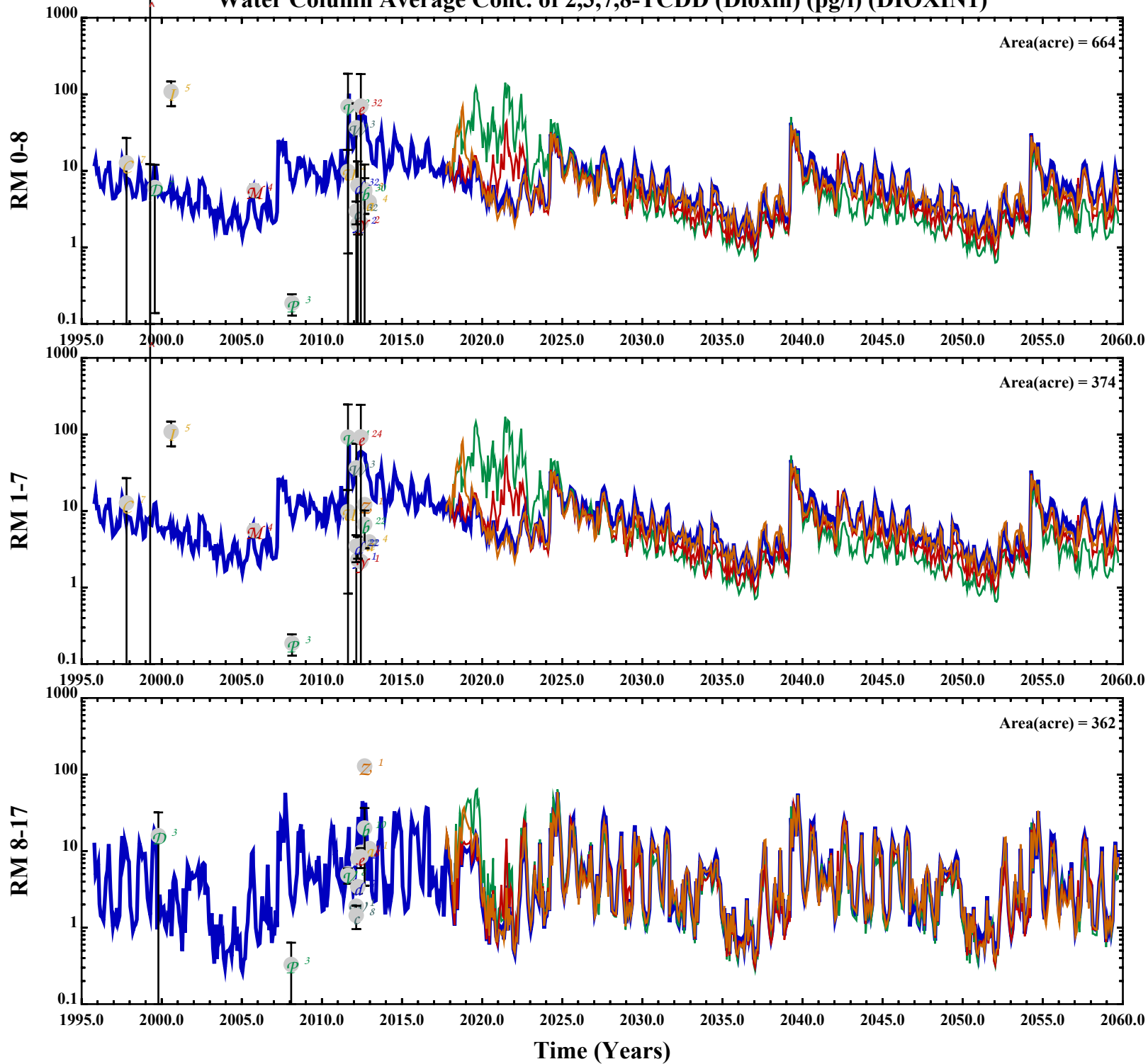
# Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)



- Data used for ICs
  - ▲ 1990 Surficial Sediment Investigation
  - B EPA EMAP 90-92
  - C 1991 Core Sediment Investigation
  - D NOAA NS&T Hudson-Raritan Phase I, 1991
  - E 1992 Core Sediment Investigation
  - F 1993 Core Sediment Investigation - 01 (March)
  - G 1993 Core Sediment Investigation - 02 (July)
  - H 1993 USEPA Surficial Sediment Program
  - I NOAA NS&T Hudson-Raritan Phase II, 1993
  - J REMAP, 1993
  - K 1994 Surficial Sediment Investigation
  - L REMAP, 1994
  - M 1995 RI Sampling Program
  - N 1995 Sediment Grab Sampling Program
  - O 1995 USACE Minish Park Investigation
  - P 1996 Newark Bay Reach A Sediment Sampling Program
  - Q 1997 Newark Bay Reach B,C,D Sampling Program
  - S 1998 Newark Bay Elizabeth Channel Sampling Program
  - T REMAP, 1998
  - U 1999 Late Summer/Early Fall ESP Sampling Program
  - X 1999 Prelim Toxicity Identification Eval
  - Y 1999/2000 Minish Park Monitoring Program
  - a 2000 Spring ESP Sampling Program
  - b 2000 Toxicity Identification Evaluation
  - c 2005 MPI - Newark Bay Phase I Oversight
  - ▲ 2005 Newark Bay RIWP Phase I Sediment Investigation
  - d 2005 USEPA-MPI High Res Sediment Core
  - e 2006 HRSA RI Sampling Program
  - g 1999-2006 Honeywell Intl Sampling
  - i 2007 USEPA-MPI-EMBM Sediment Samples
  - j 2007 USEPA-MPI Dundee High Res Core
  - k 2007 Newark Bay Phase II TSI Sediment Samples
  - 2008 CPG Low Resolution Sediment Coring
  - m 2009 CPG Benthic Sediment Study
  - o 2009 USEPA-MPI Benthic Oversight
  - p 2010 CPG Benthic Sediment Sampling
  - q 2010 USEPA-CDM Benthic Oversight
  - 2011 CPG River Mile 10.9 Data
  - r 2012 CDMSmith Background Benthic Sediment
  - s 2012 CDMSmith LowRes Coring Supplemental
  - t 2012 CPG Background Benthic Sediment
  - ▼ 2012 CPG Low Res Coring Supplemental
  - u 2012 CPG River Mile 10.9 Data
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping
  - No Action Gradient IC, Reach Scale Up (Full Reach)

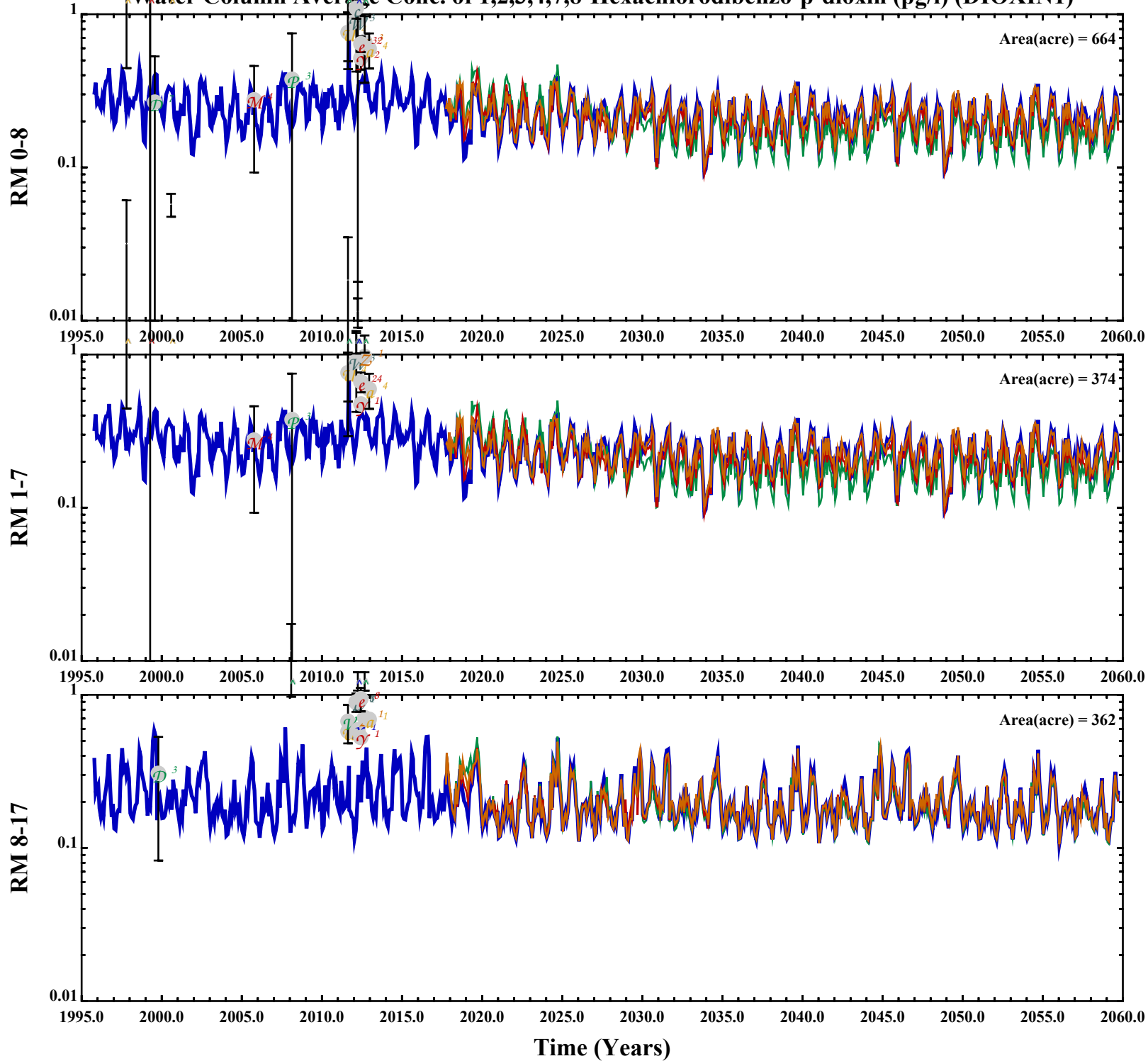
**Attachment E-3**  
**LPR Water Column Reach Average Time**  
**Series Projections**

# Water Column Average Conc. of 2,3,7,8-TCDD (Dioxin) (pg/l) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

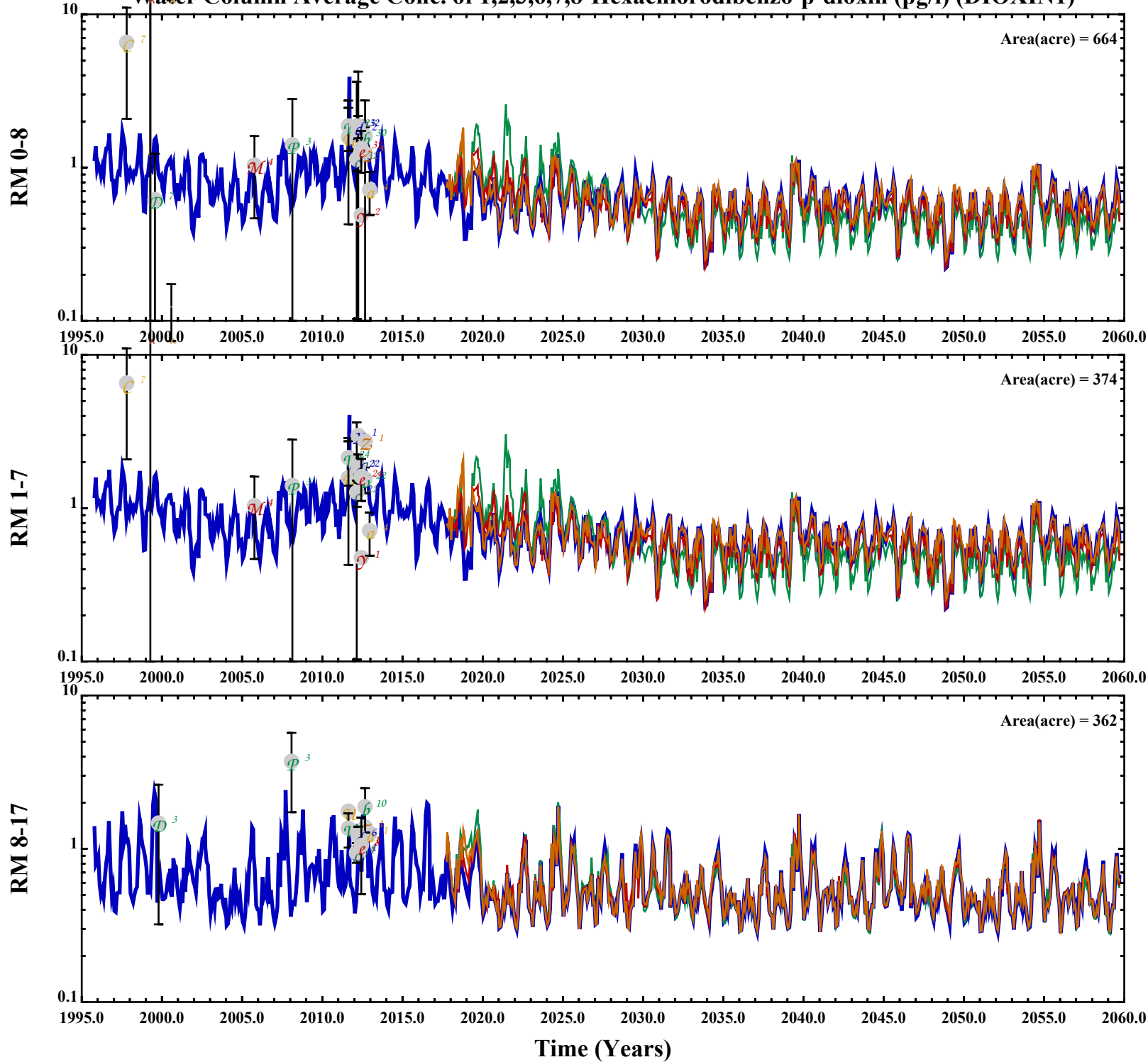
# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay Reach ABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

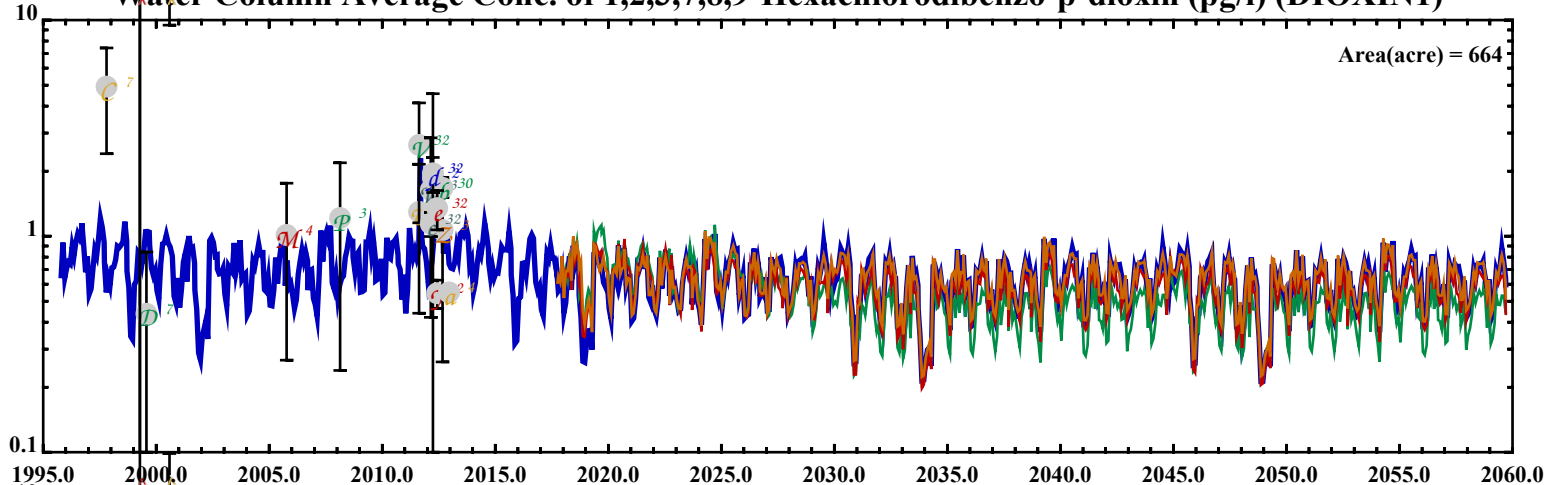
# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)



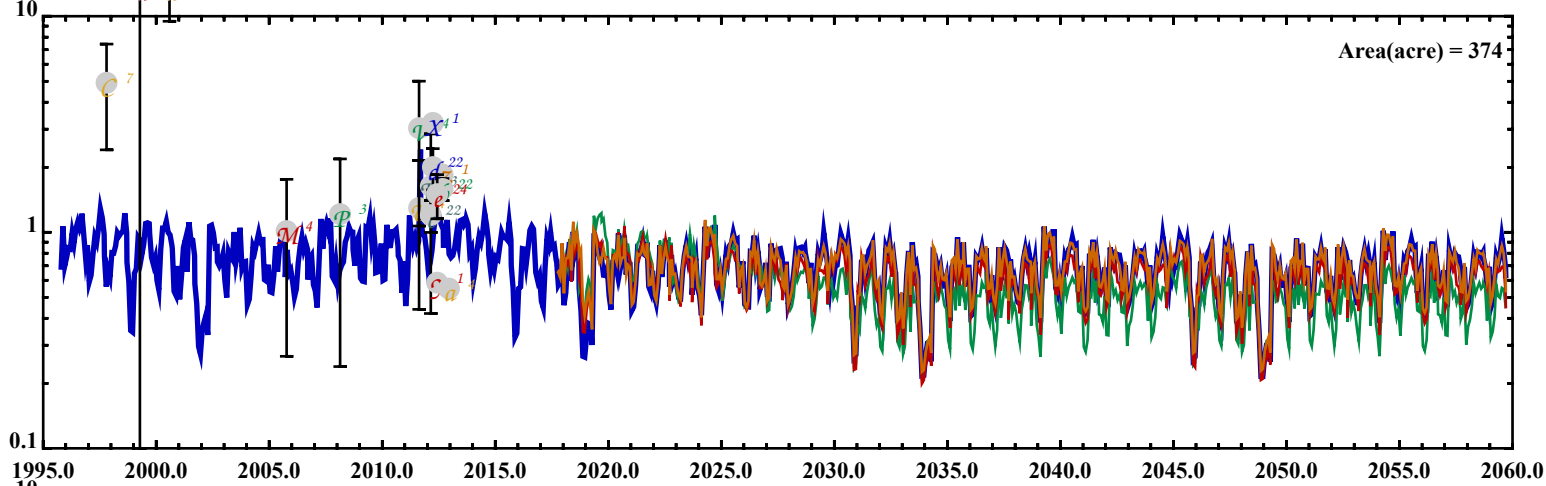
- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
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  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
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  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

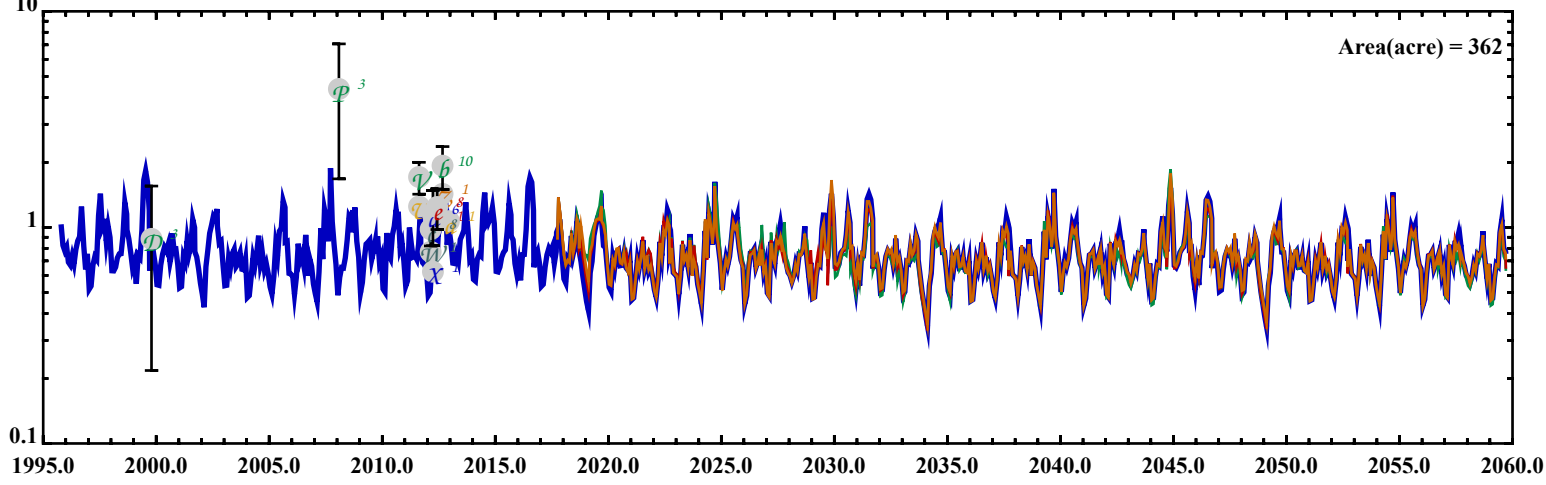
RM 0-8



RM 1-7



RM 8-17



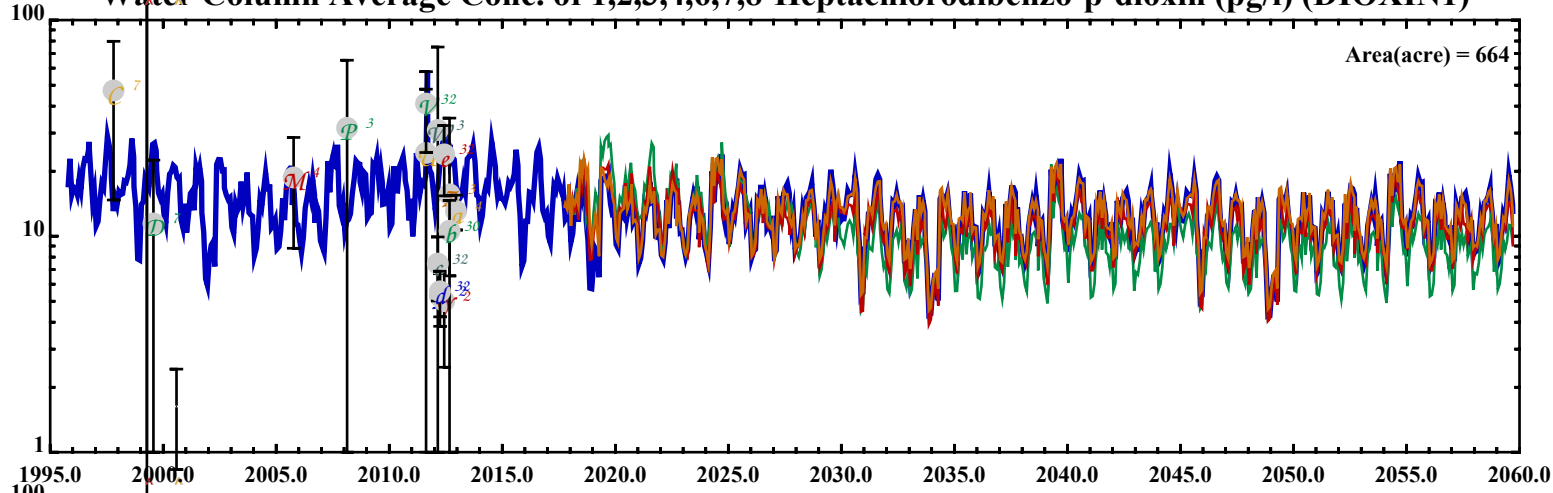
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

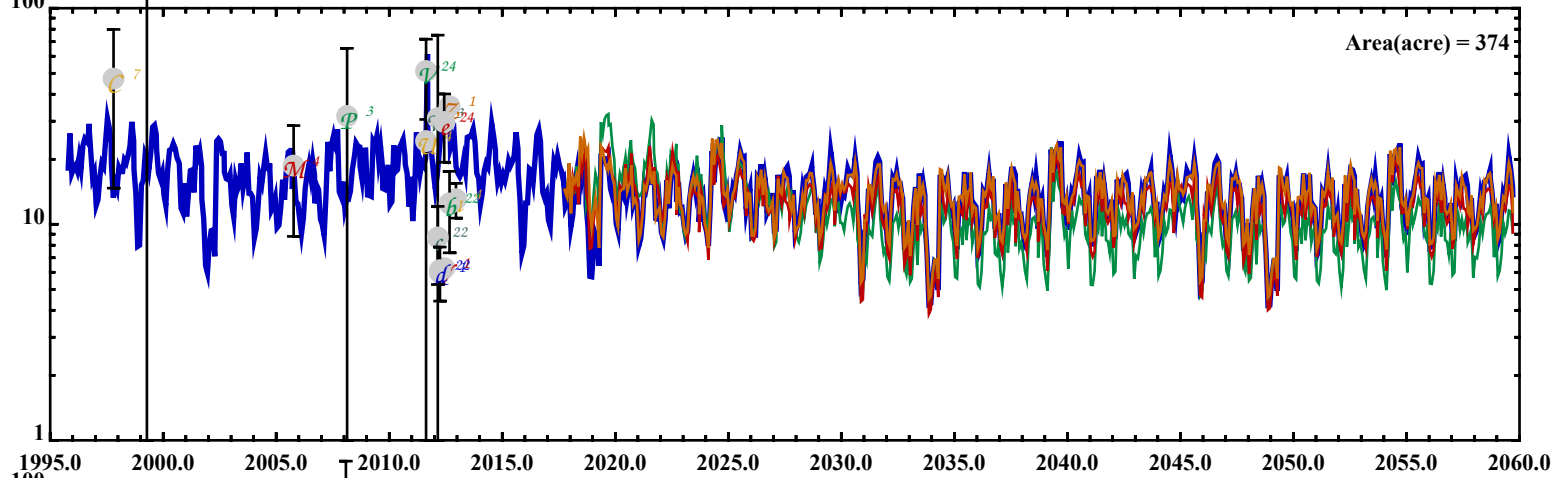
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (pg/l) (DIOXIN1)

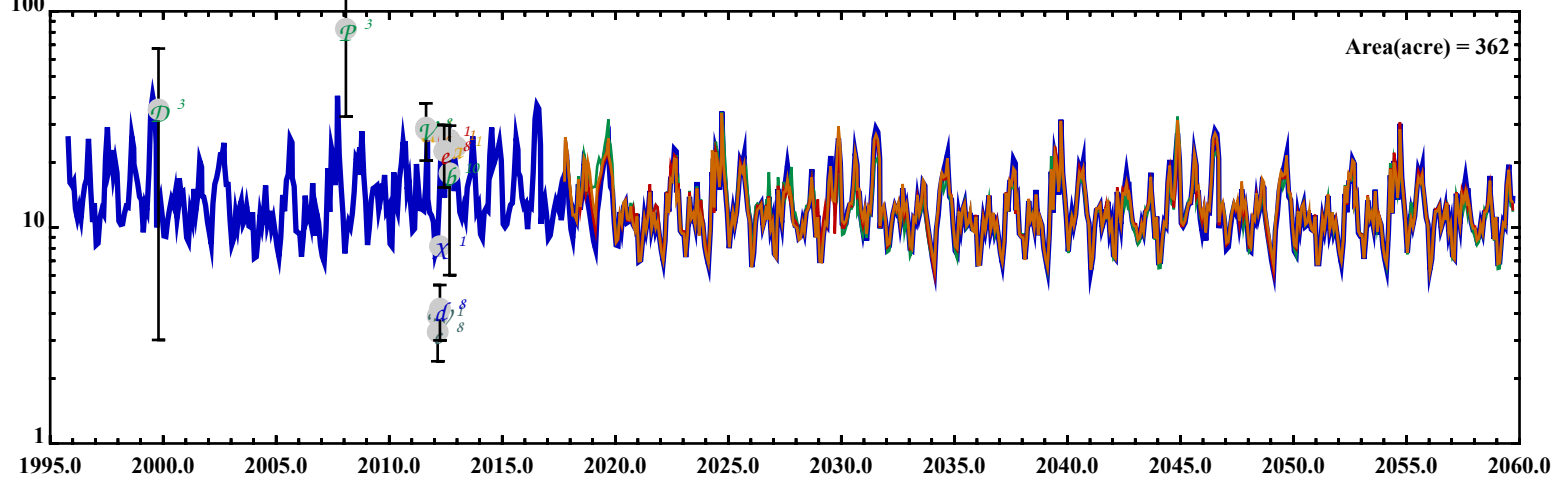
RM 0-8



RM 1-7



RM 8-17



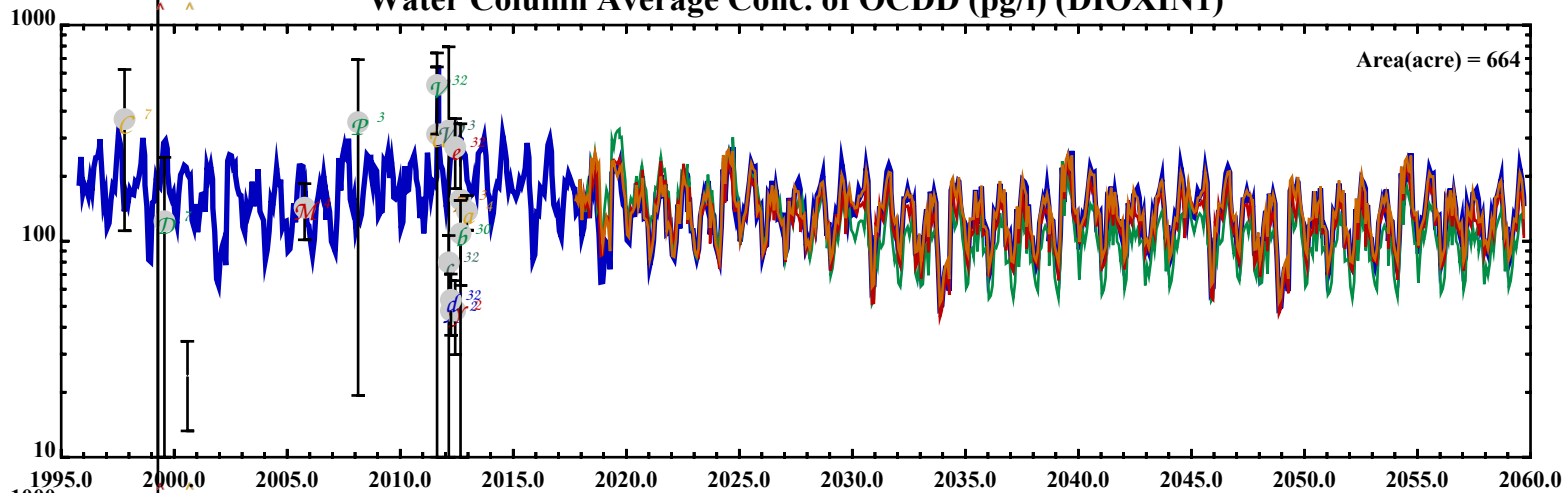
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

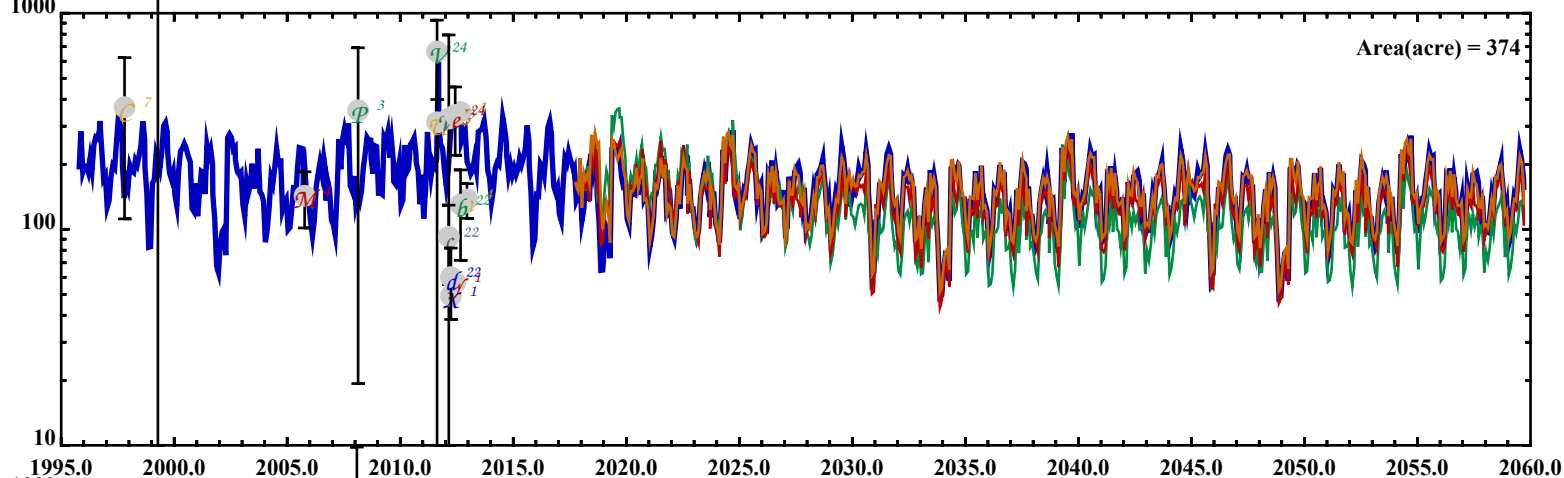
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of OCDD (pg/l) (DIOXIN1)

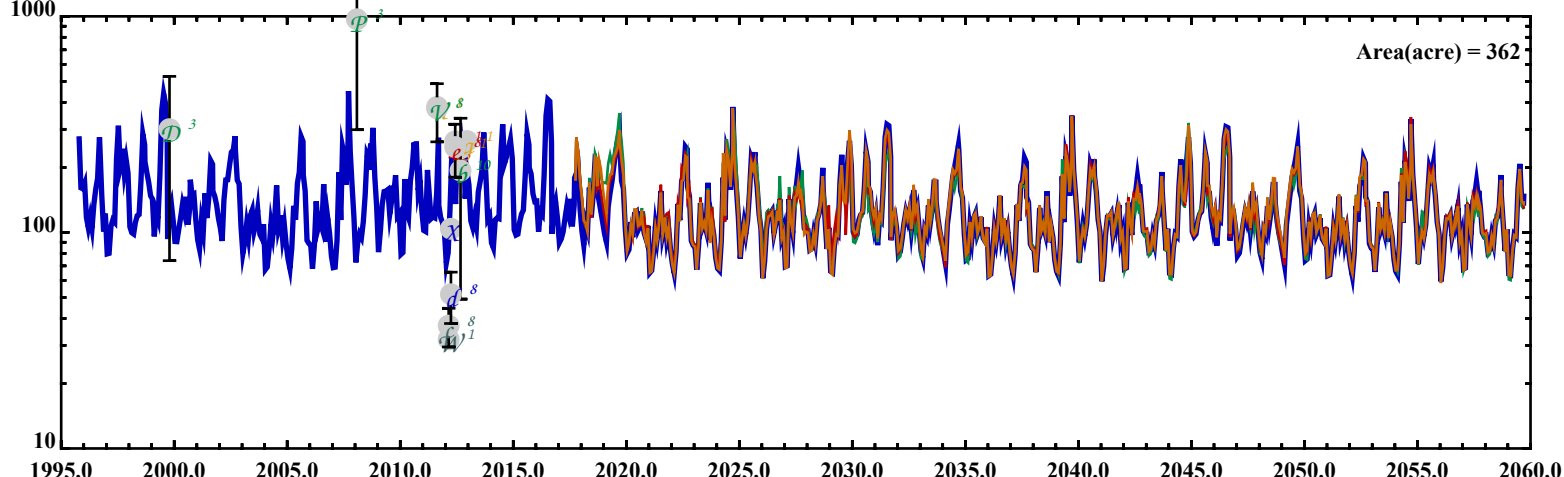
RM 0-8



RM 1-7



RM 8-17



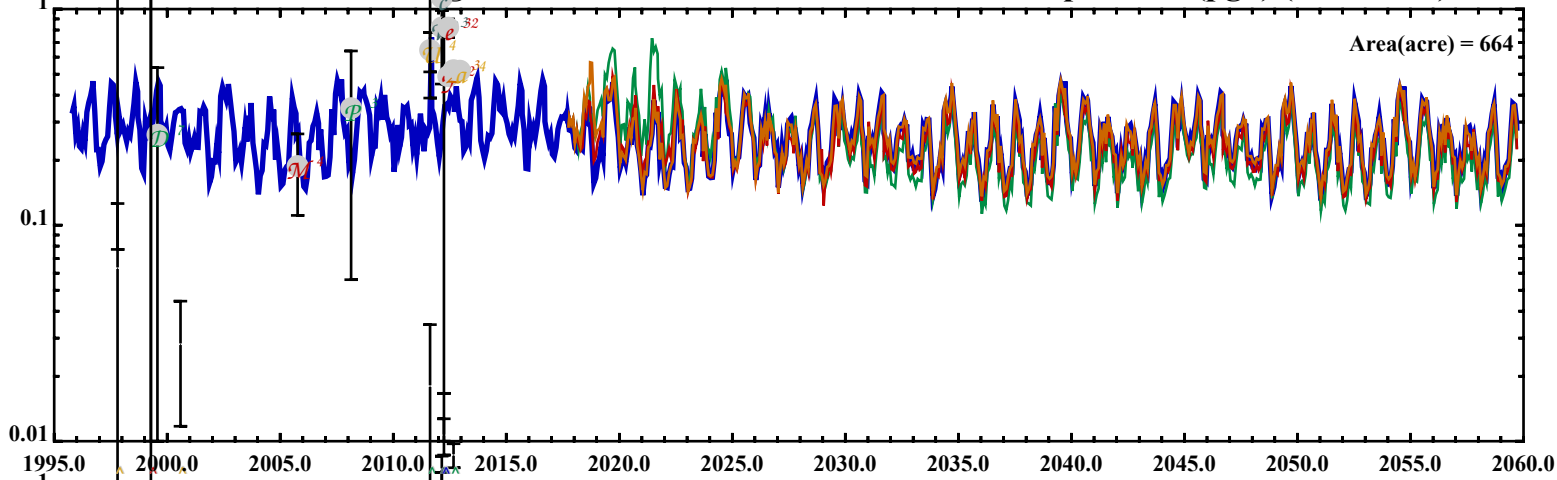
Time (Years)

- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

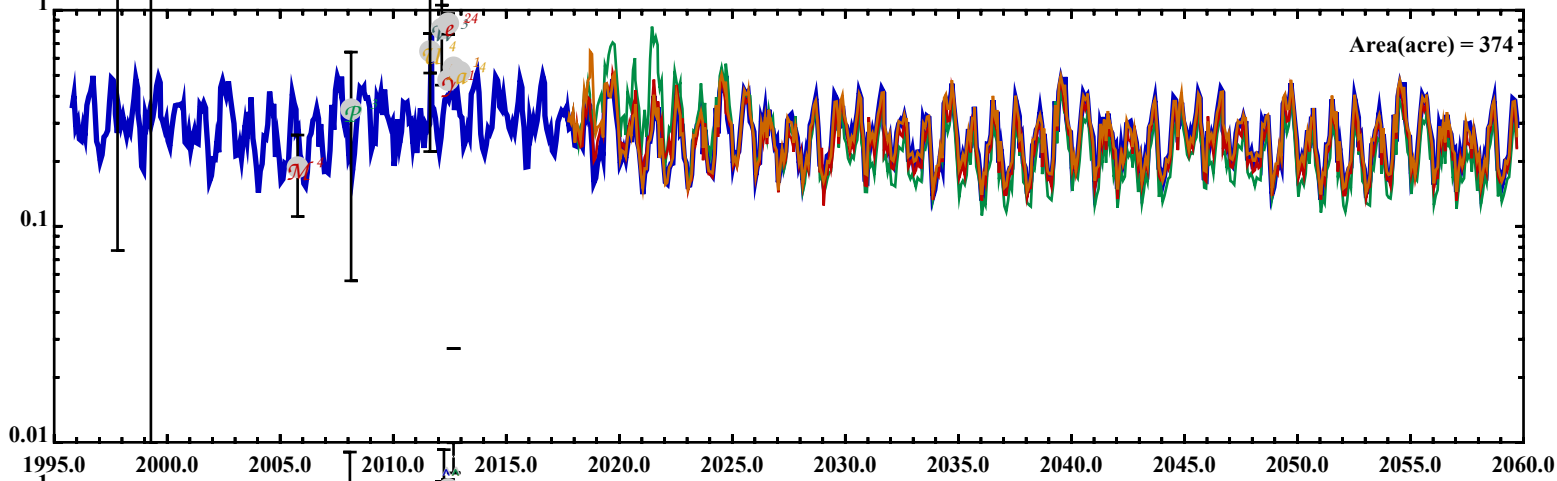


# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (pg/l) (DIOXIN2)

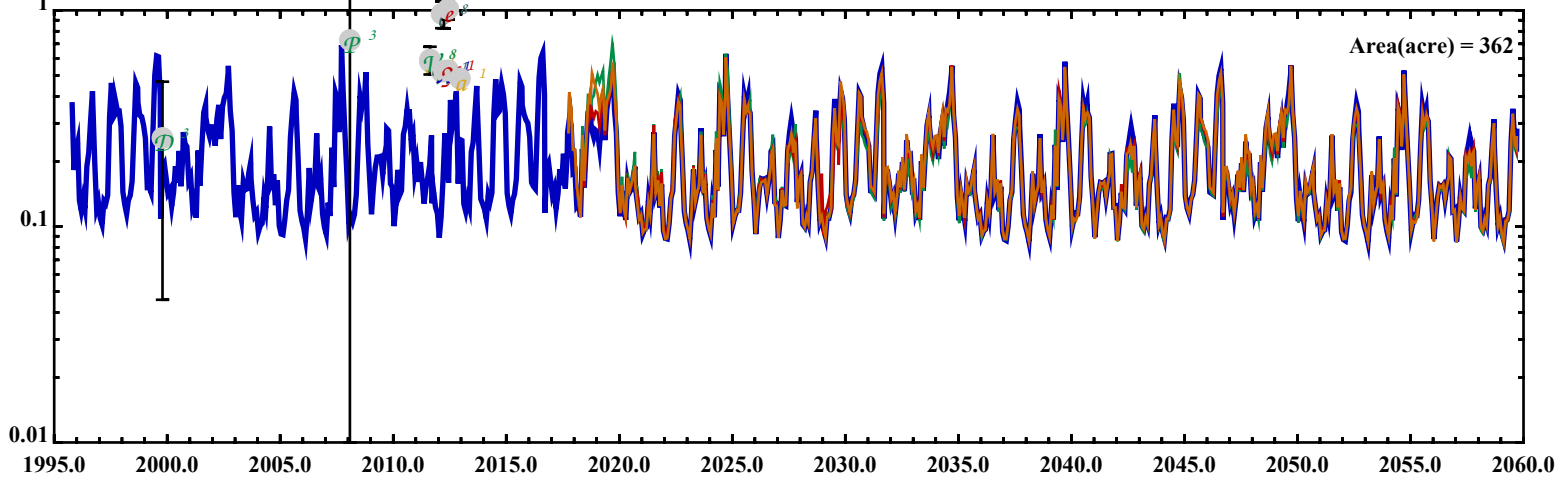
RM 0-8



RM 1-7



RM 8-17

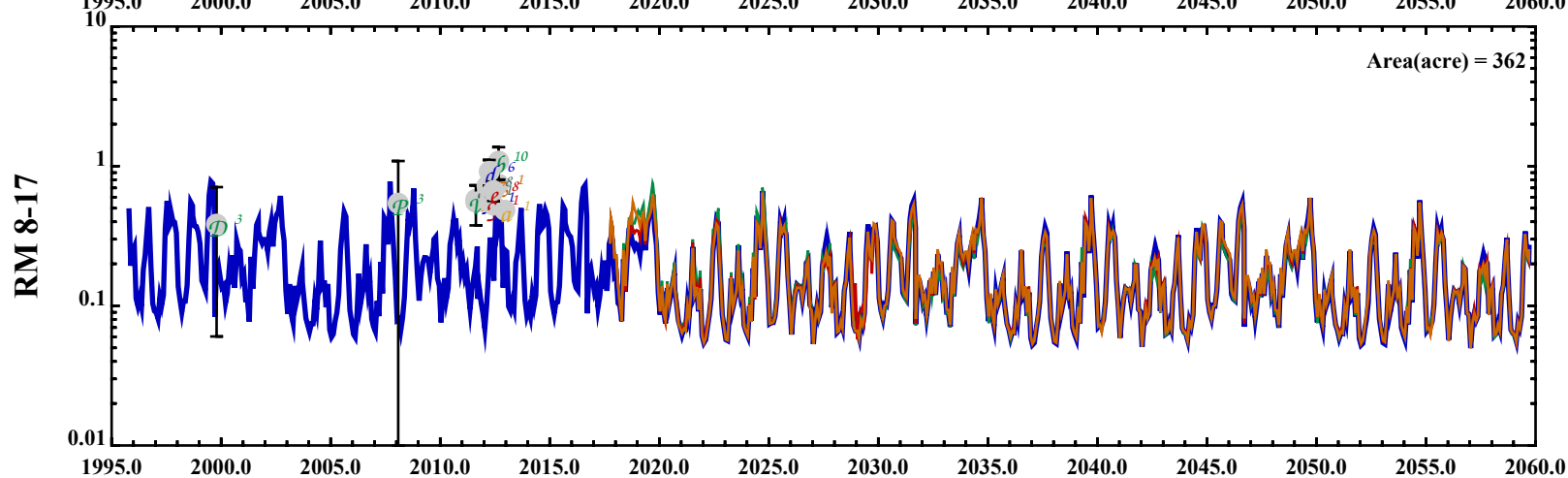
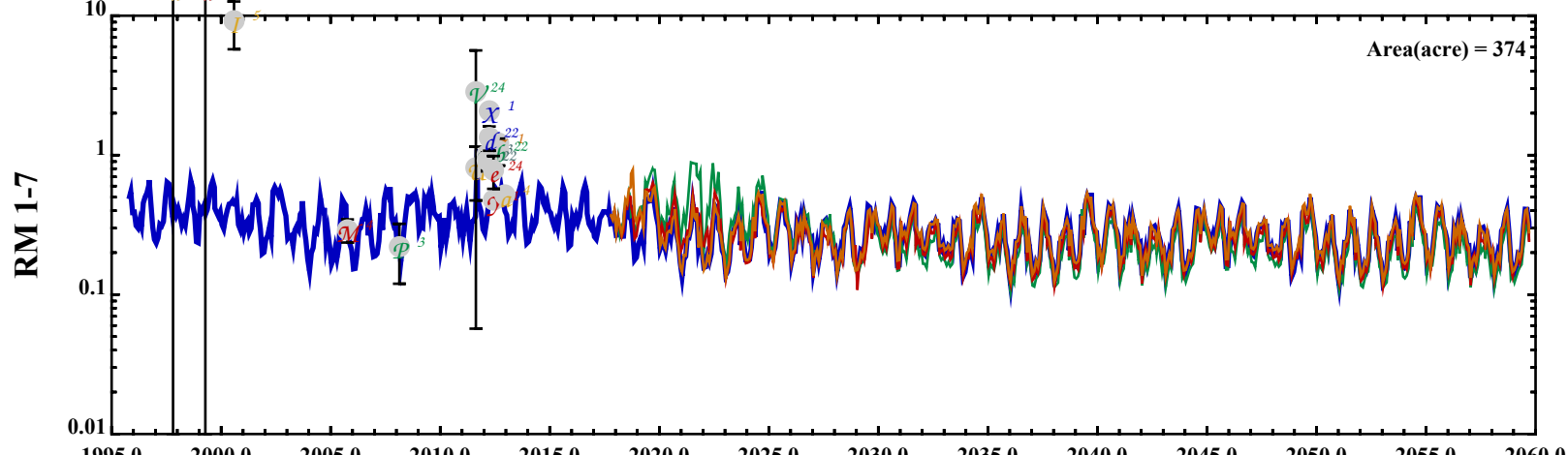
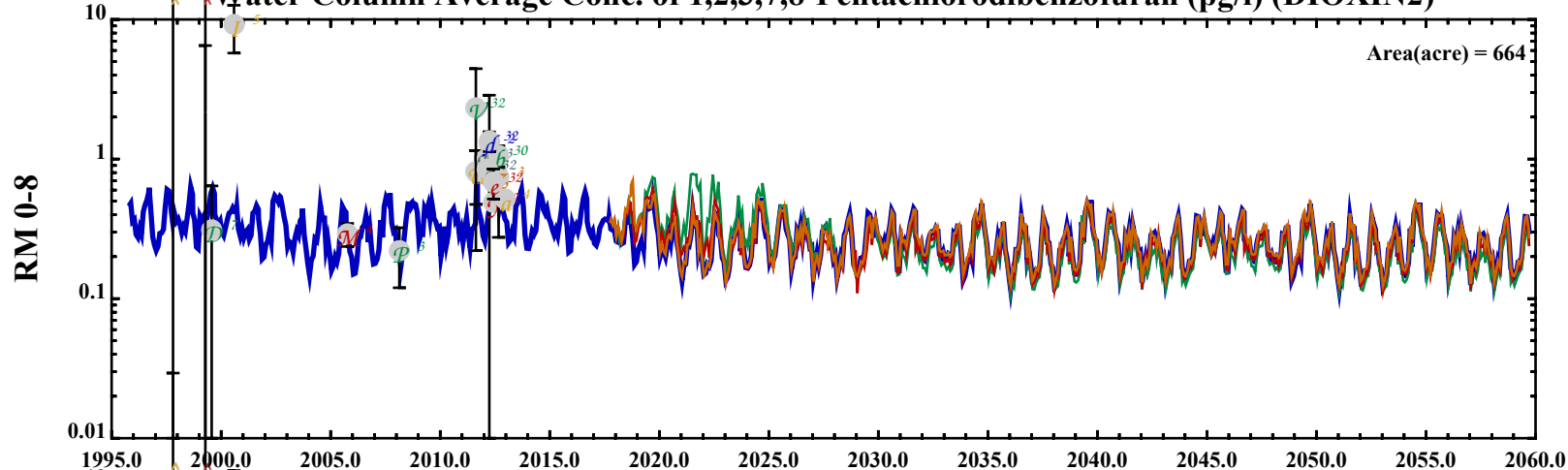


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (pg/l) (DIOXIN2)



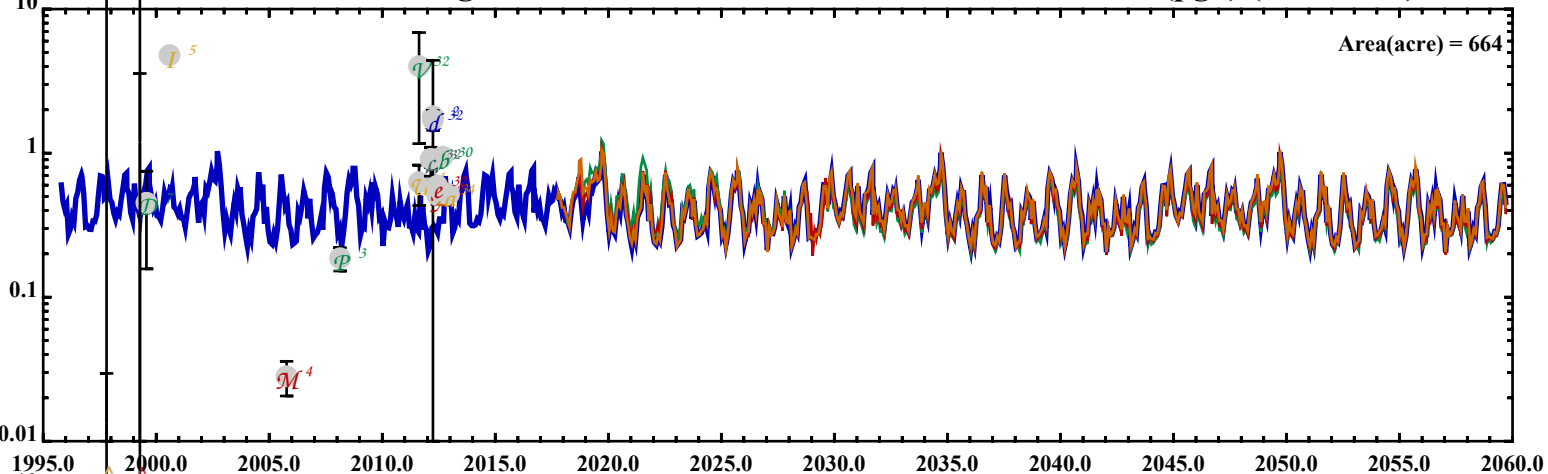
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

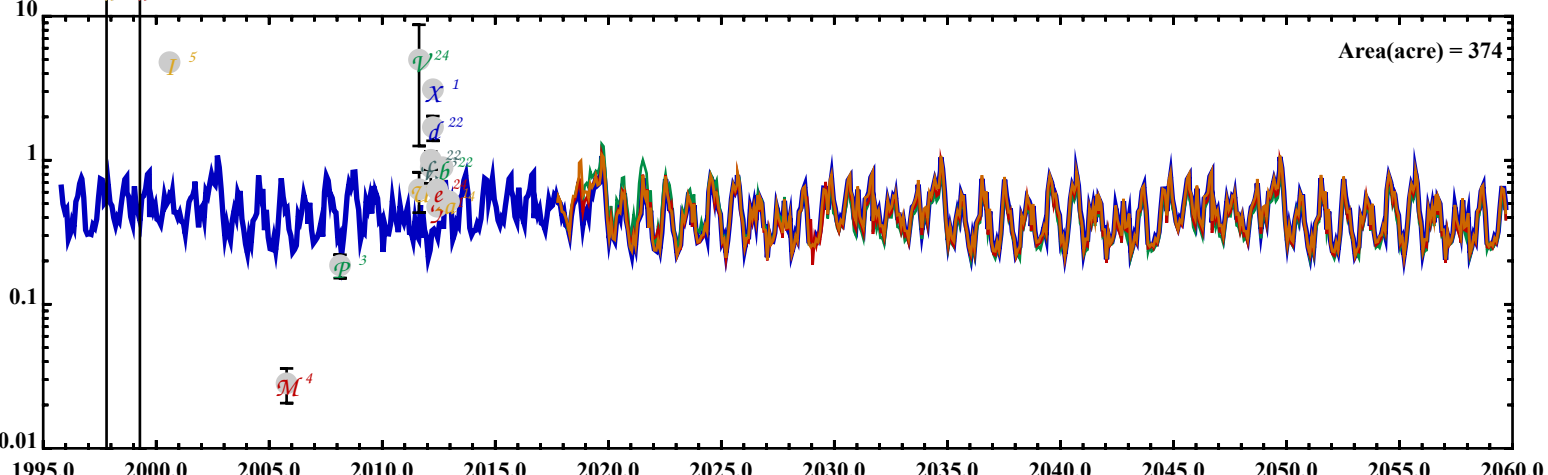
Time (Years)

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (pg/l) (DIOXIN2)

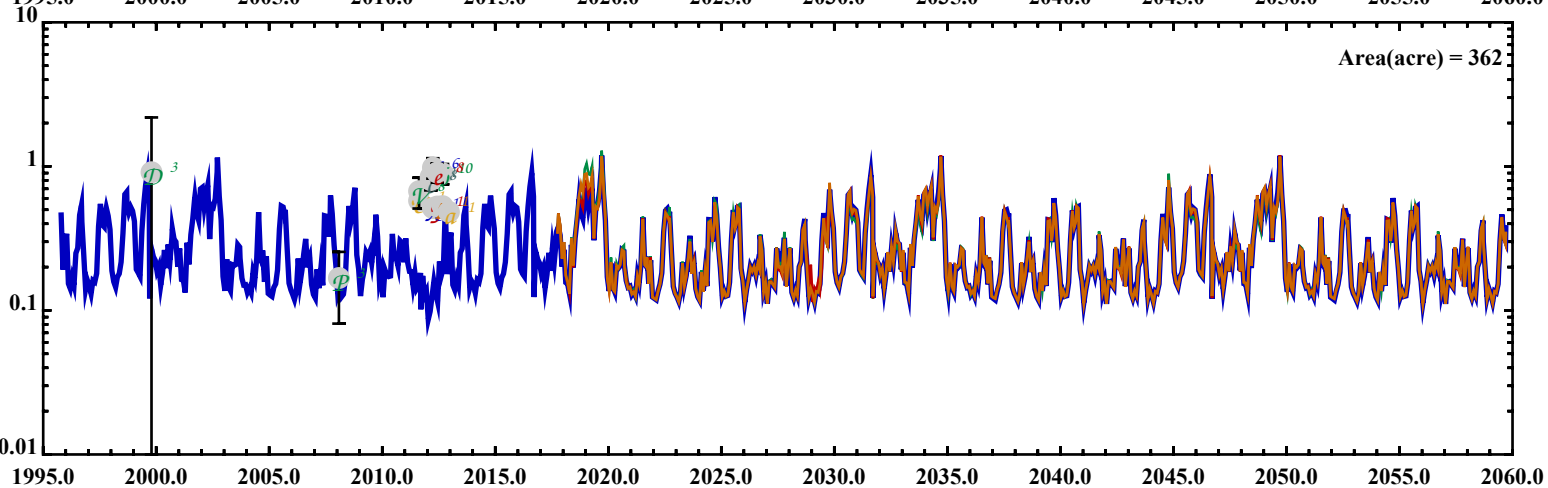
RM 0-8



RM 1-7



RM 8-17



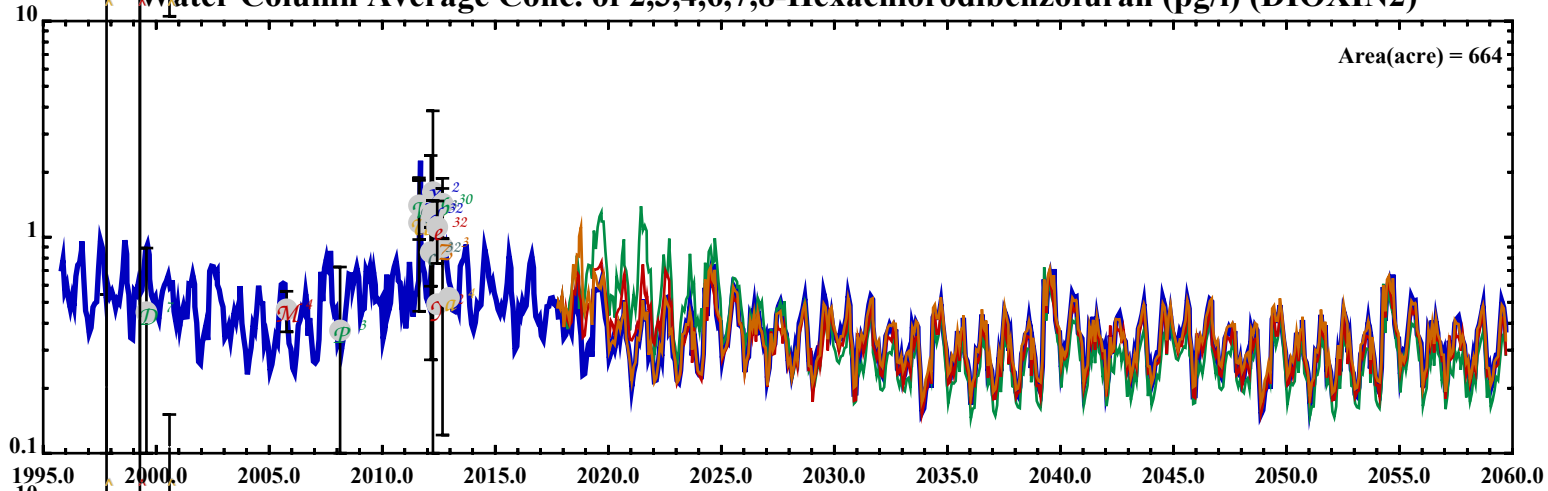
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

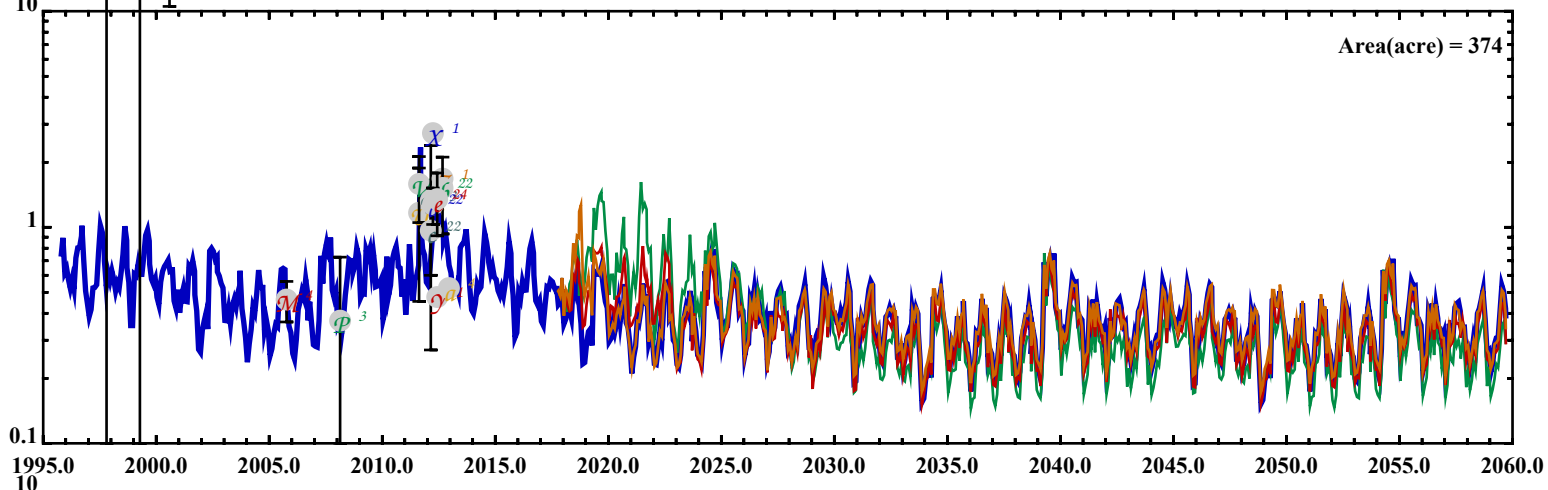
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN2)

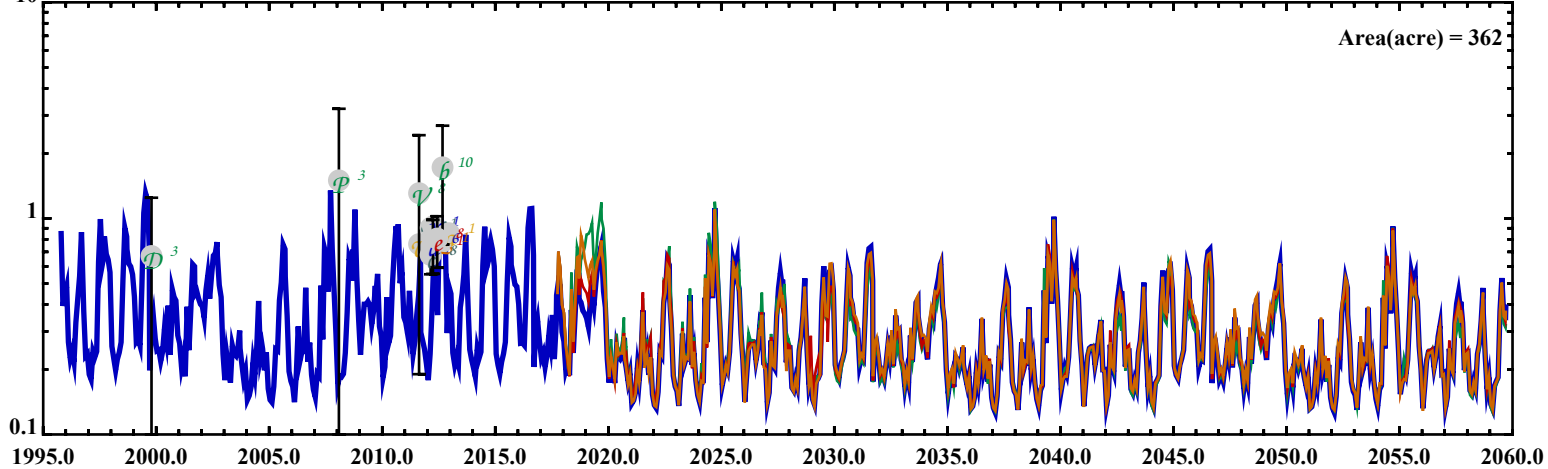
RM 0-8



RM 1-7



RM 8-17



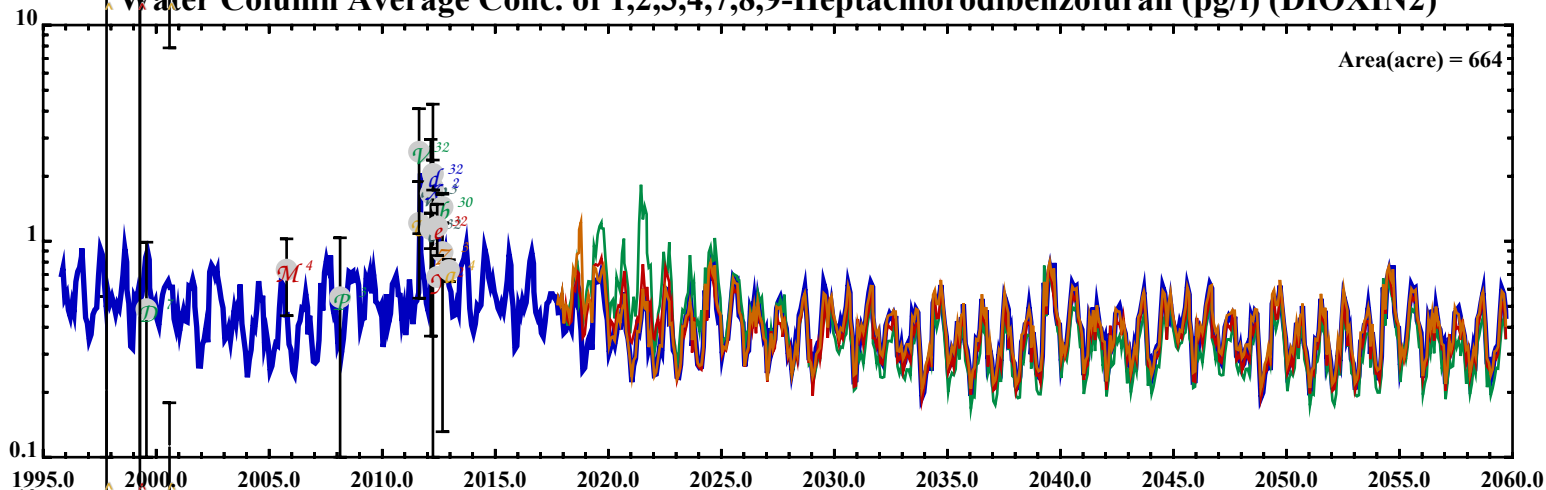
Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

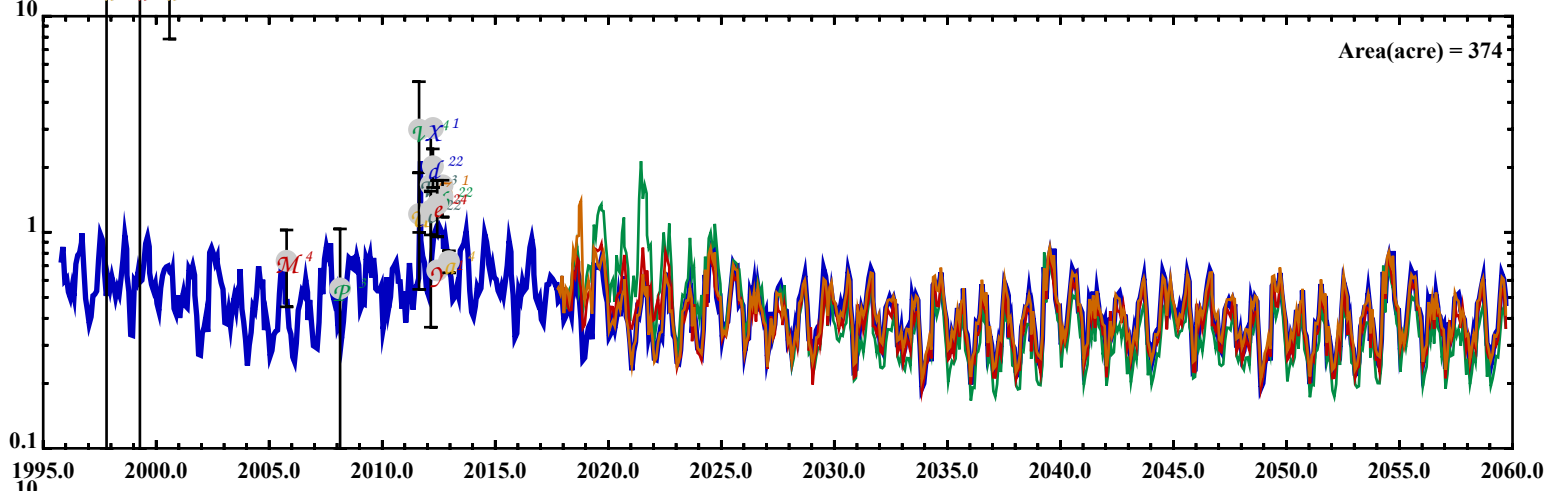
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (pg/l) (DIOXIN2)

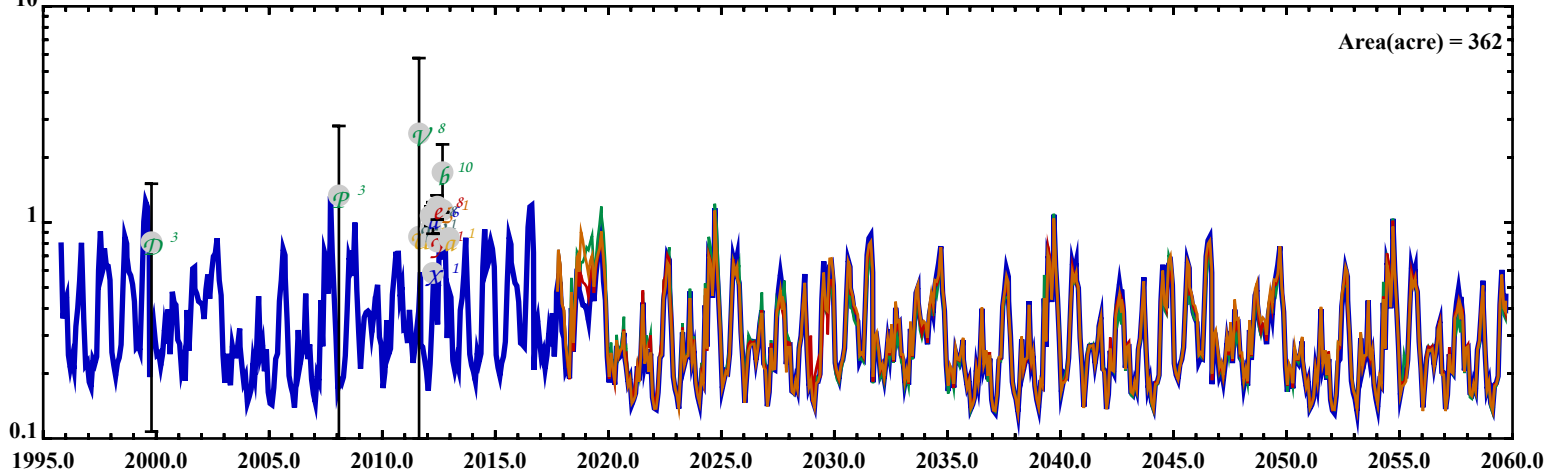
RM 0-8



RM 1-7



RM 8-17

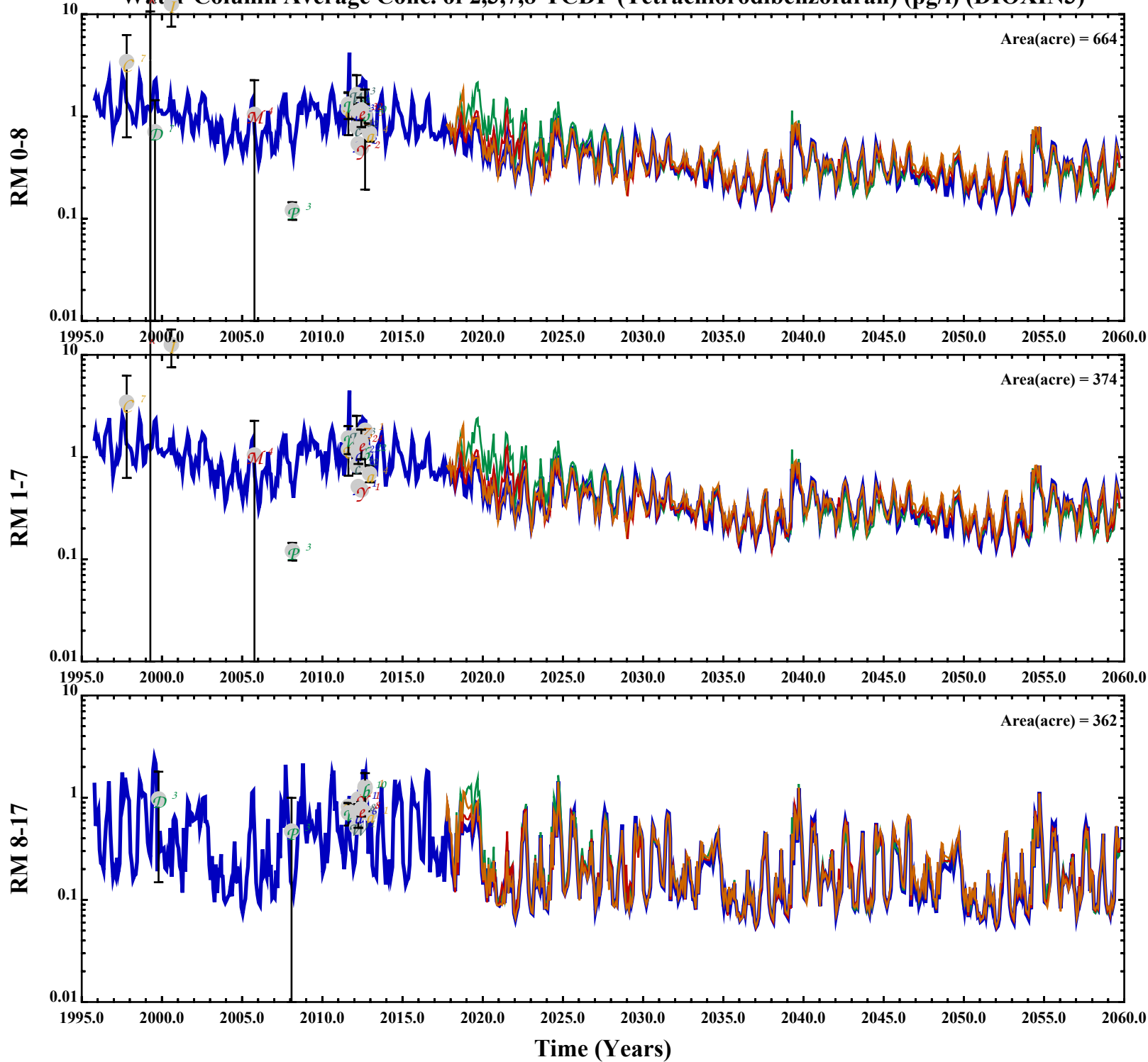


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCDBaseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

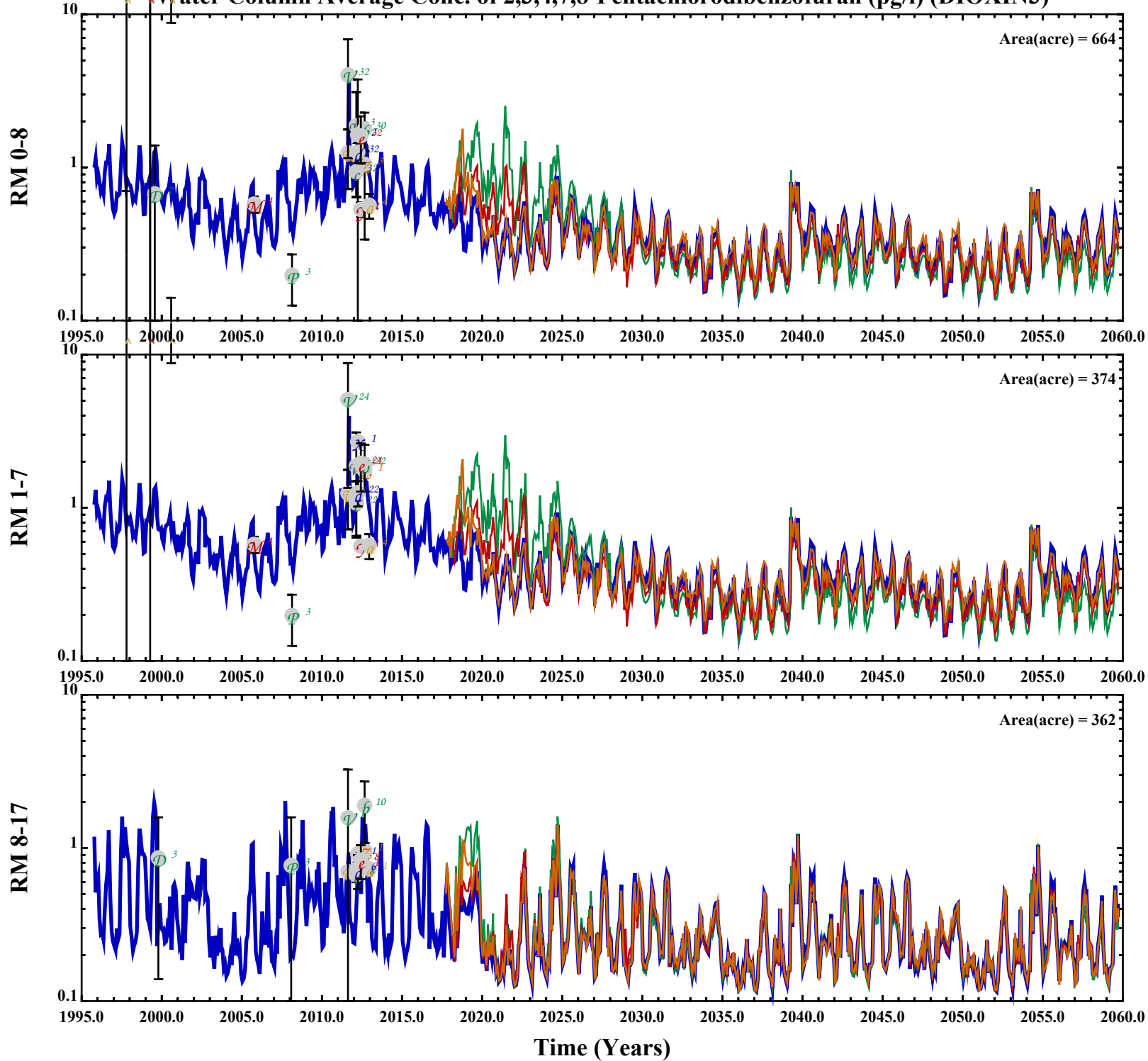
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (pg/l) (DIOXIN3)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

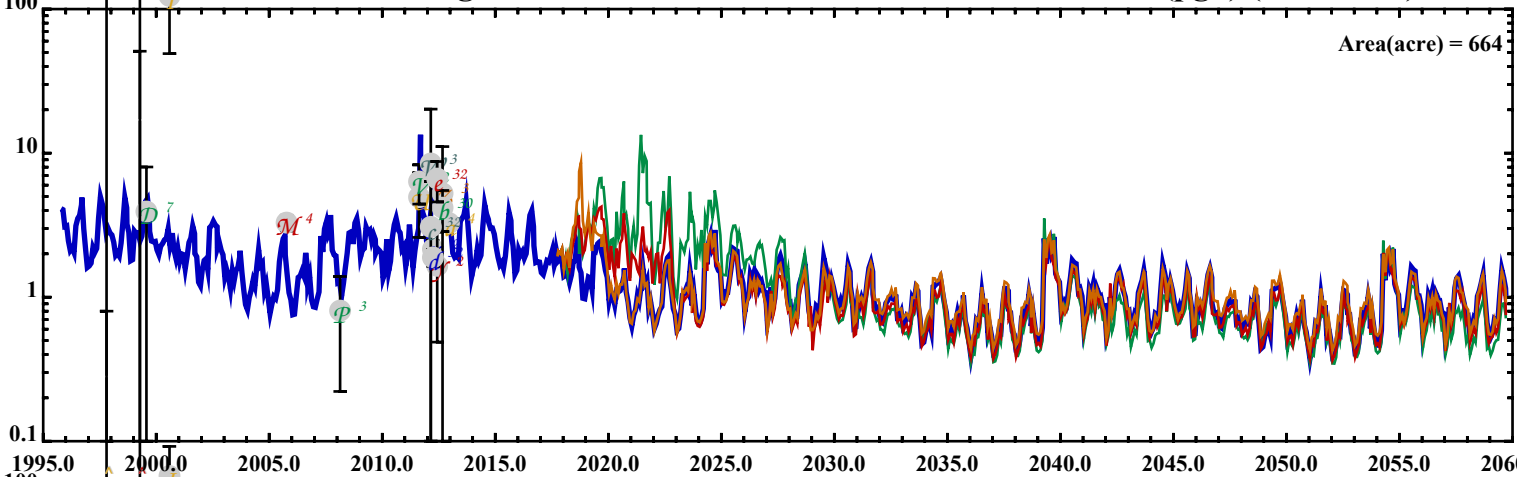
# Water Column Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (pg/l) (DIOXIN3)



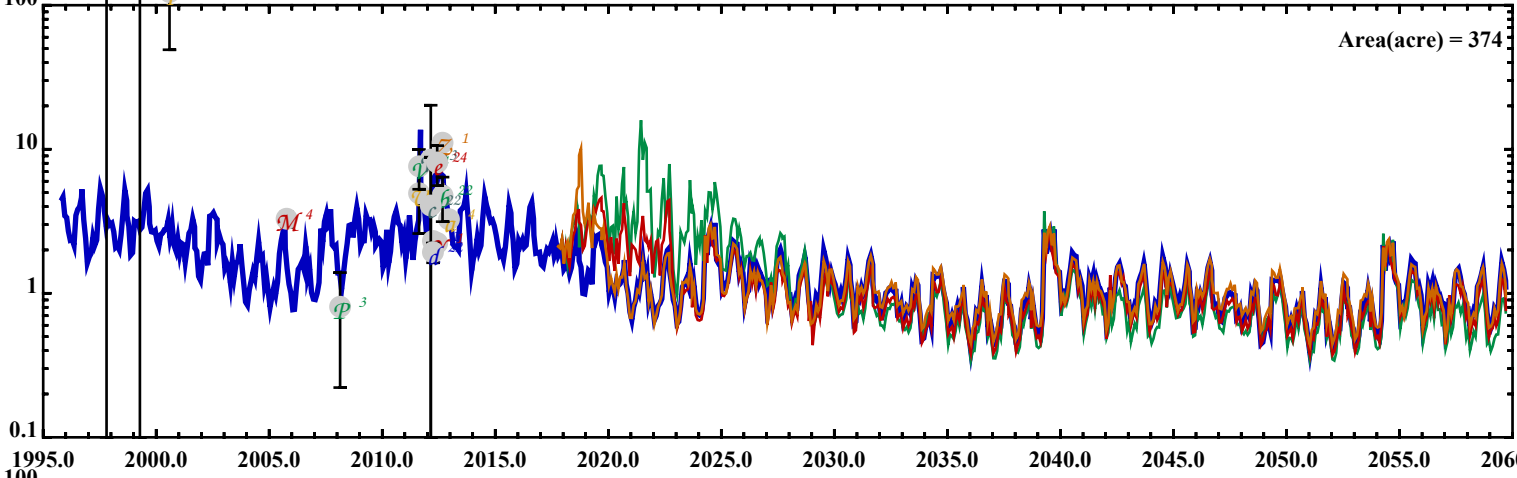
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN3)

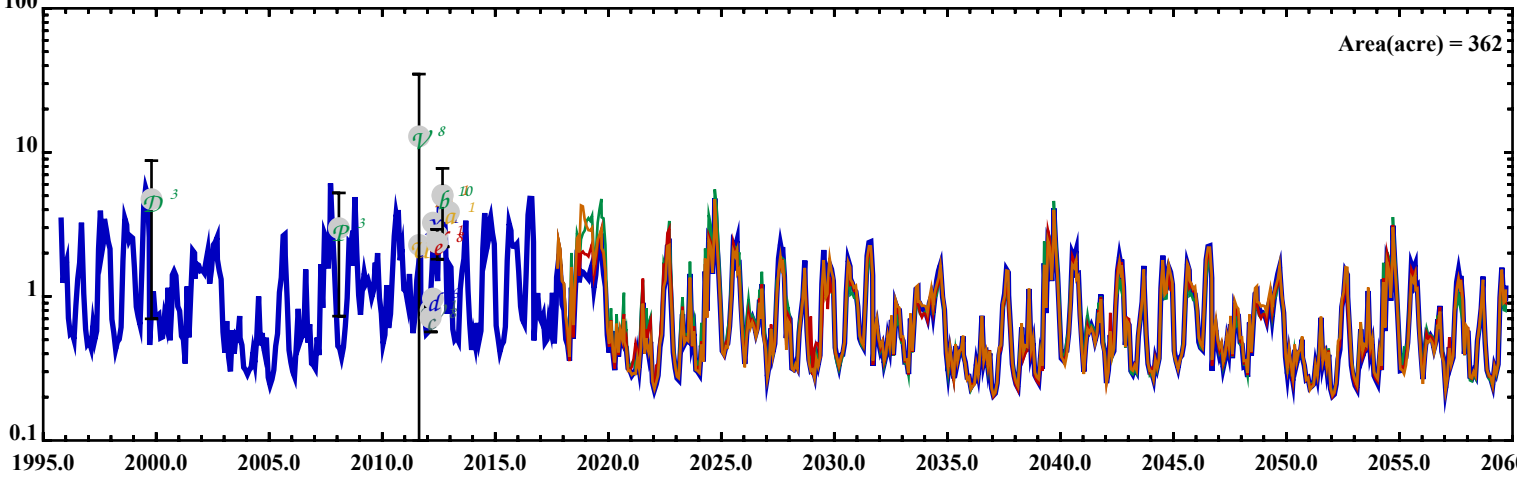
RM 0-8



RM 1-7



RM 8-17



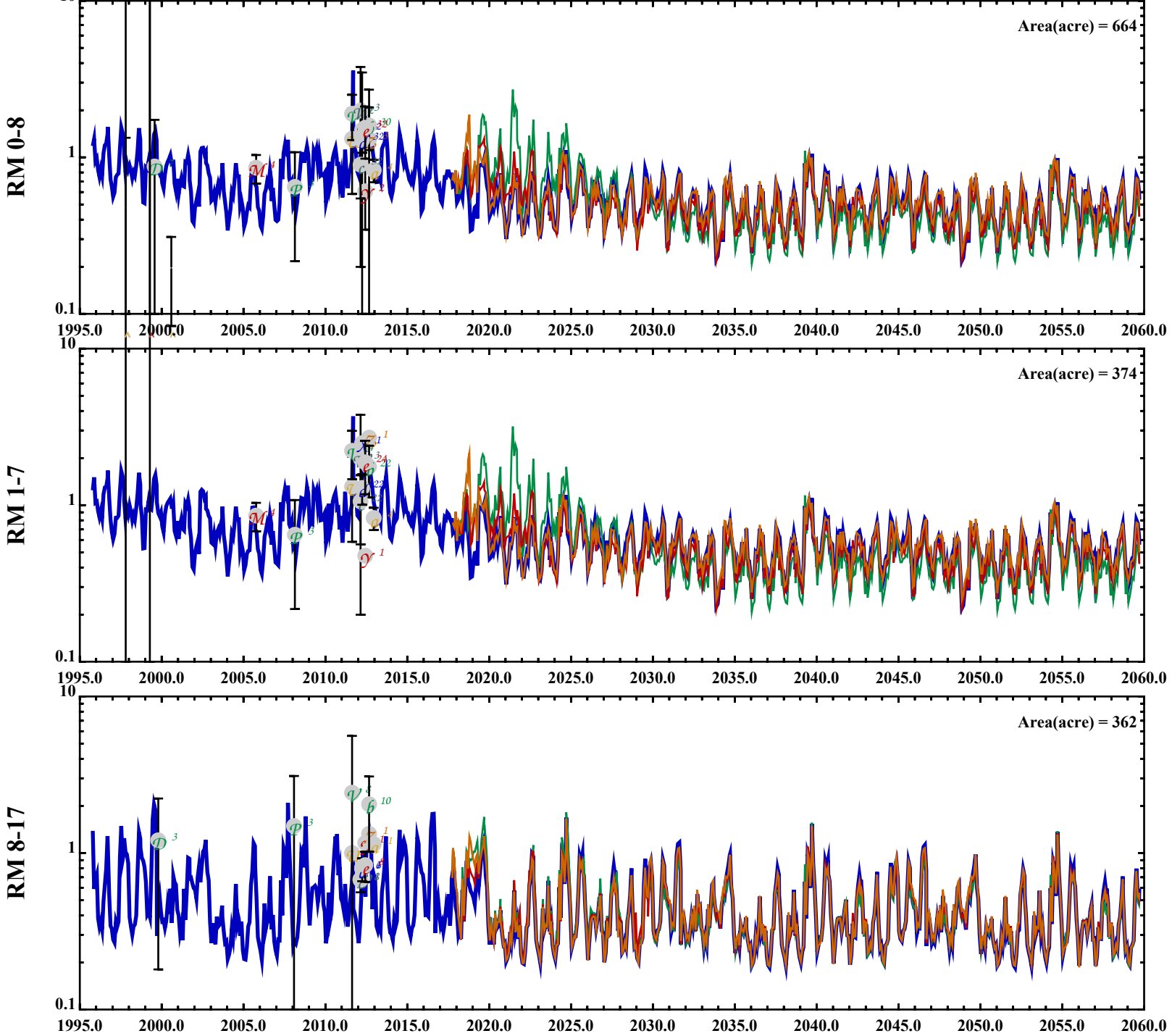
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
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- Q* 2009 CPG LPR Water Column Monitoring DEC
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- U* 2011 CDM Smith CWCM Sampling Data
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- W* 2012 CDM Smith CWCM Sampling - Round 2
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping



# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (pg/l) (DIOXIN3)

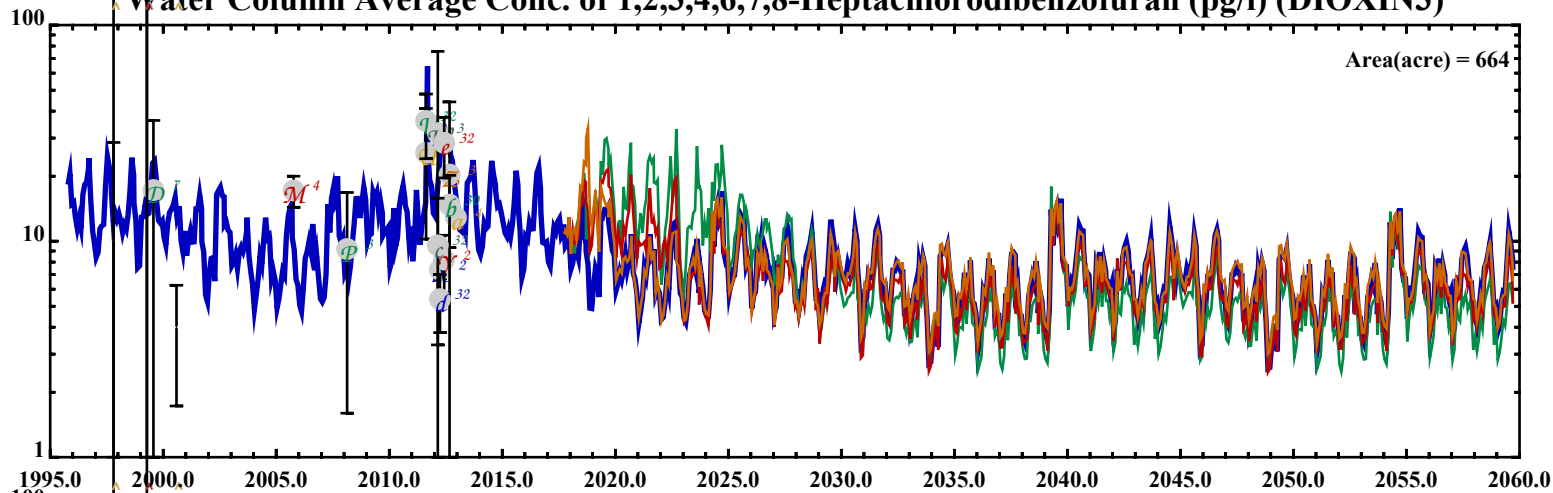


- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
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  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

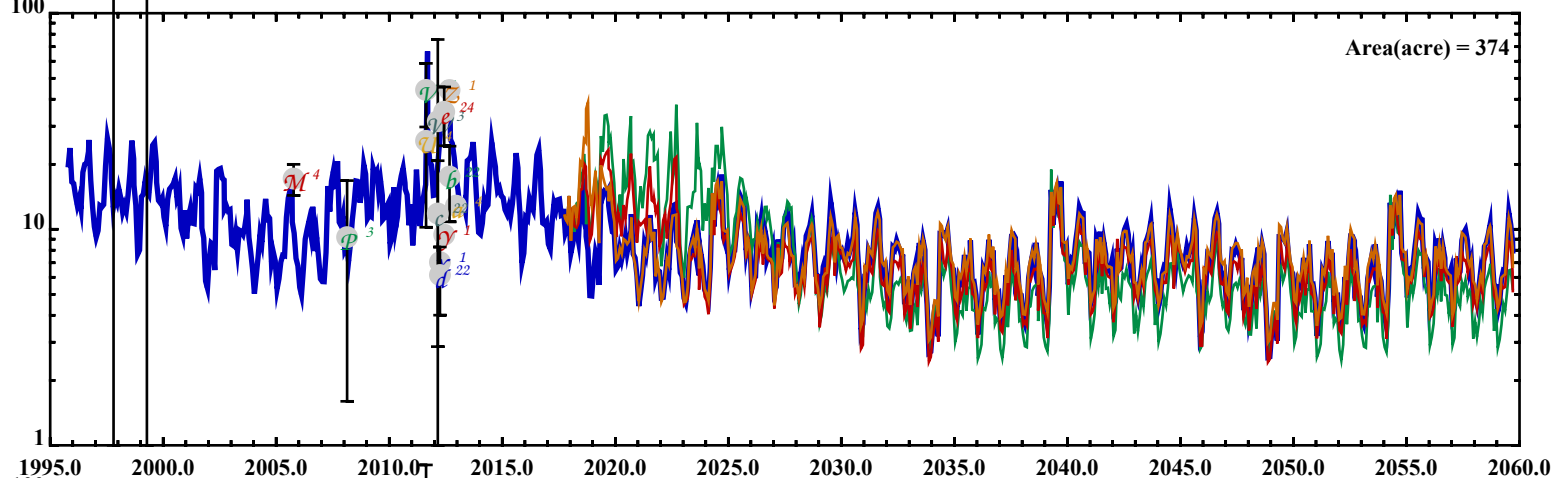
Time (Years)

# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (pg/l) (DIOXIN3)

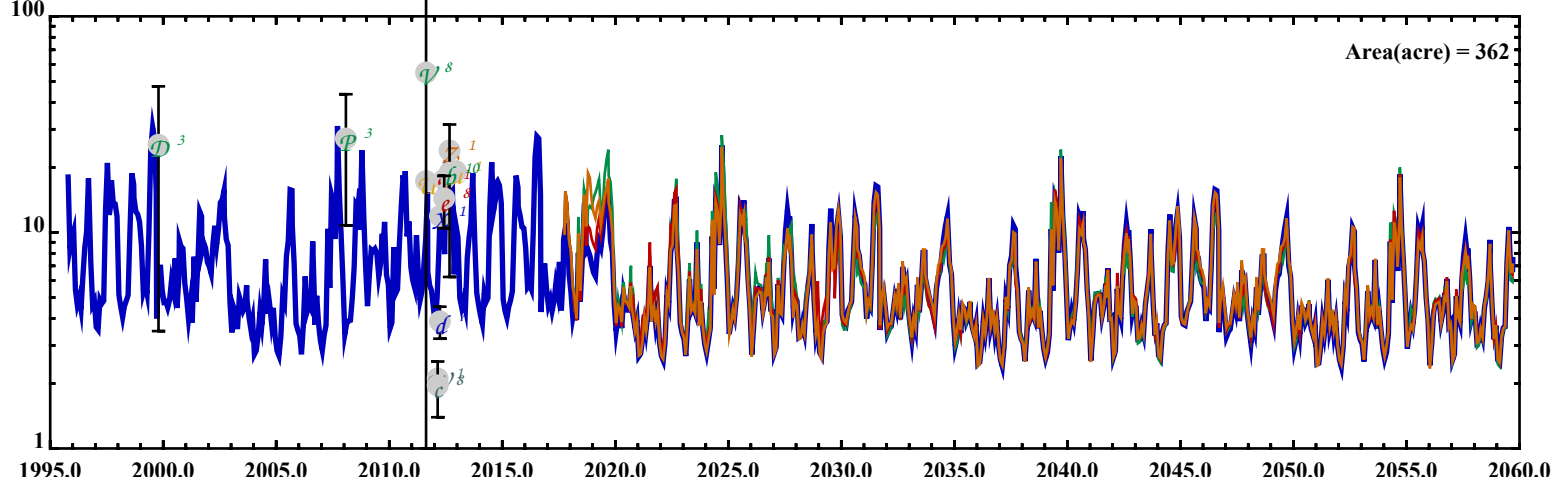
RM 0-8



RM 1-7



RM 8-17

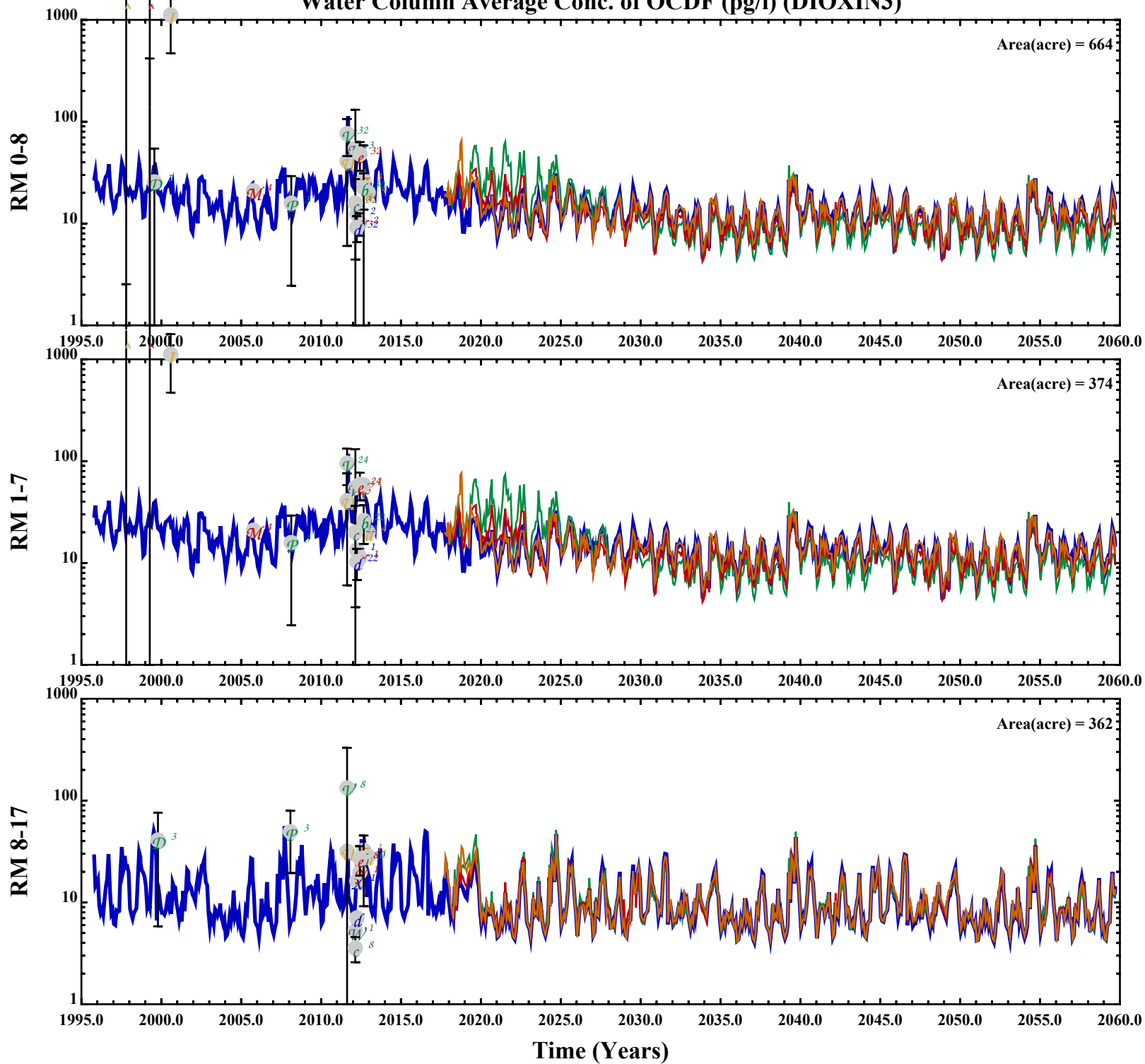


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

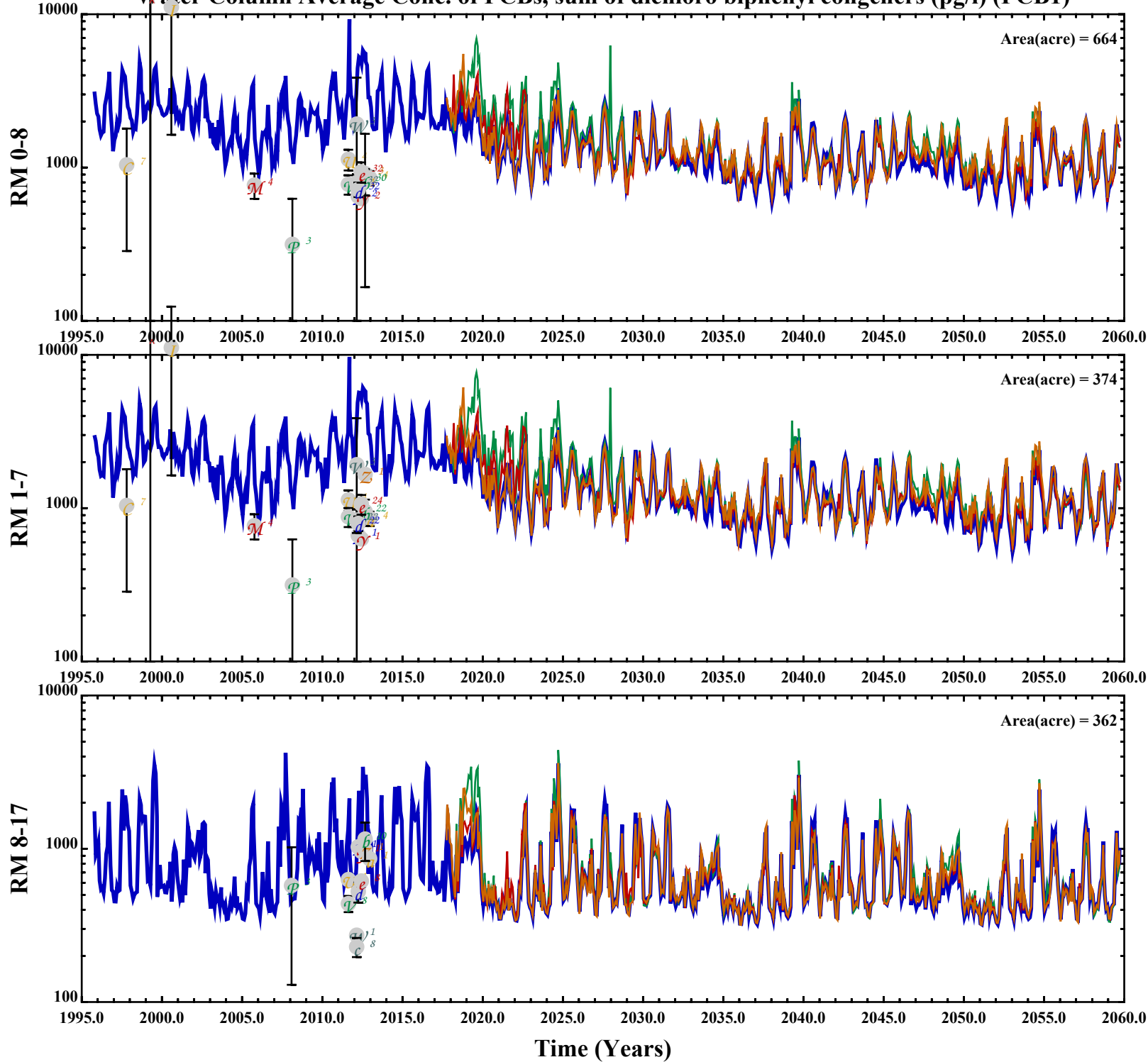
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of OCDF (pg/l) (DIOXIN3)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

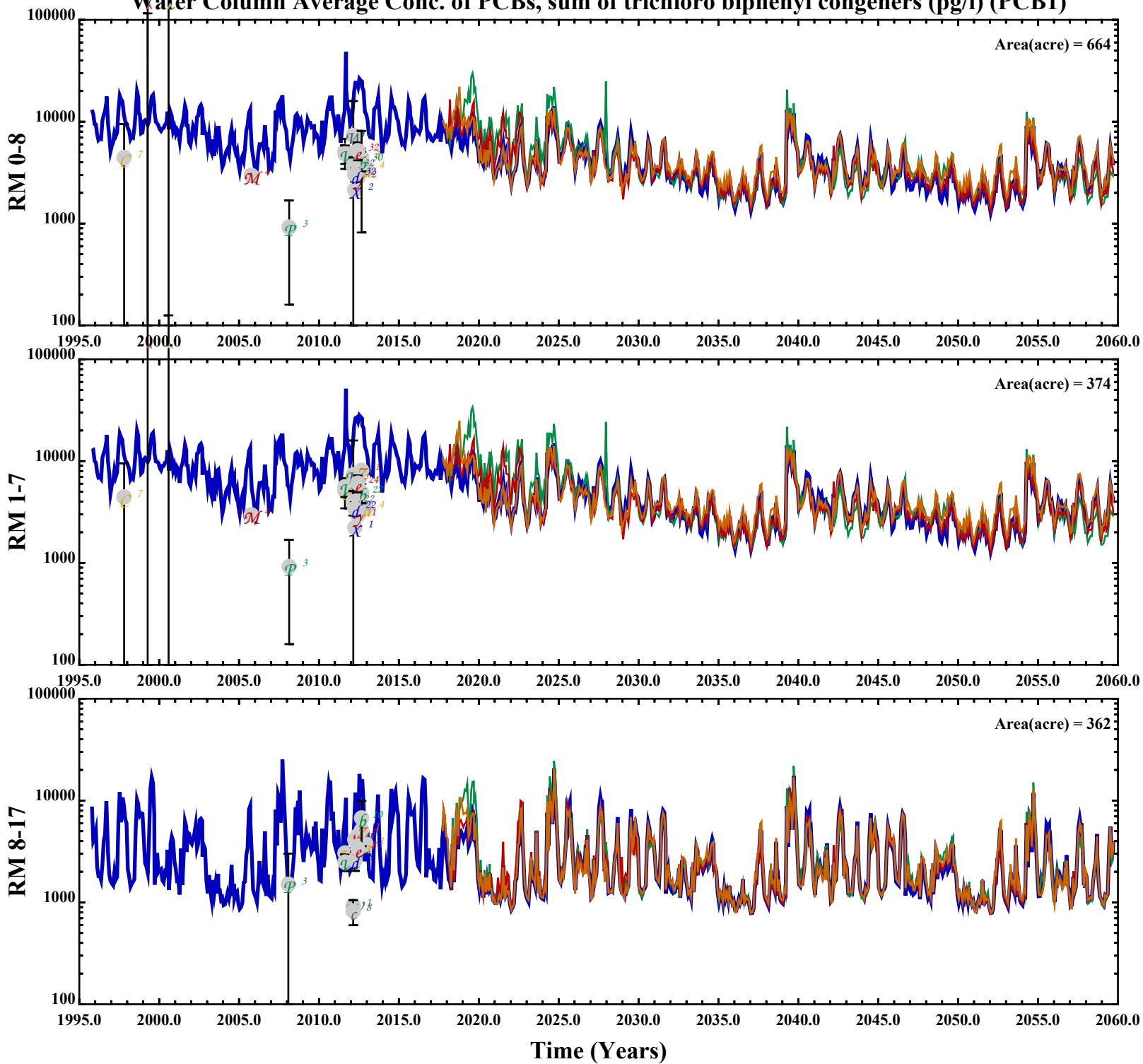
# Water Column Average Conc. of PCBs, sum of dichloro biphenyl congeners (pg/l) (PCB1)



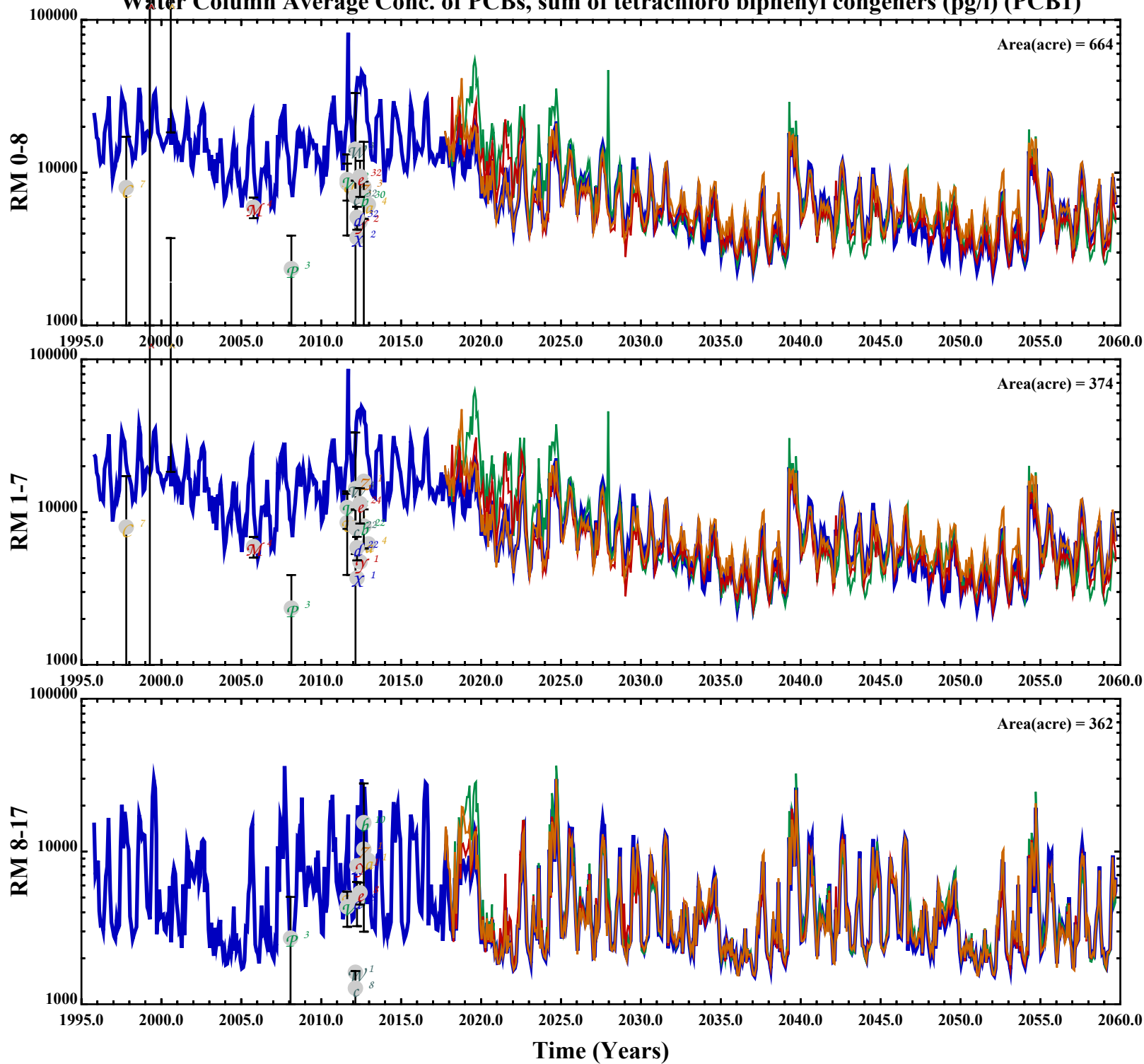
- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of PCBs, sum of trichloro biphenyl congeners (pg/l) (PCB1)

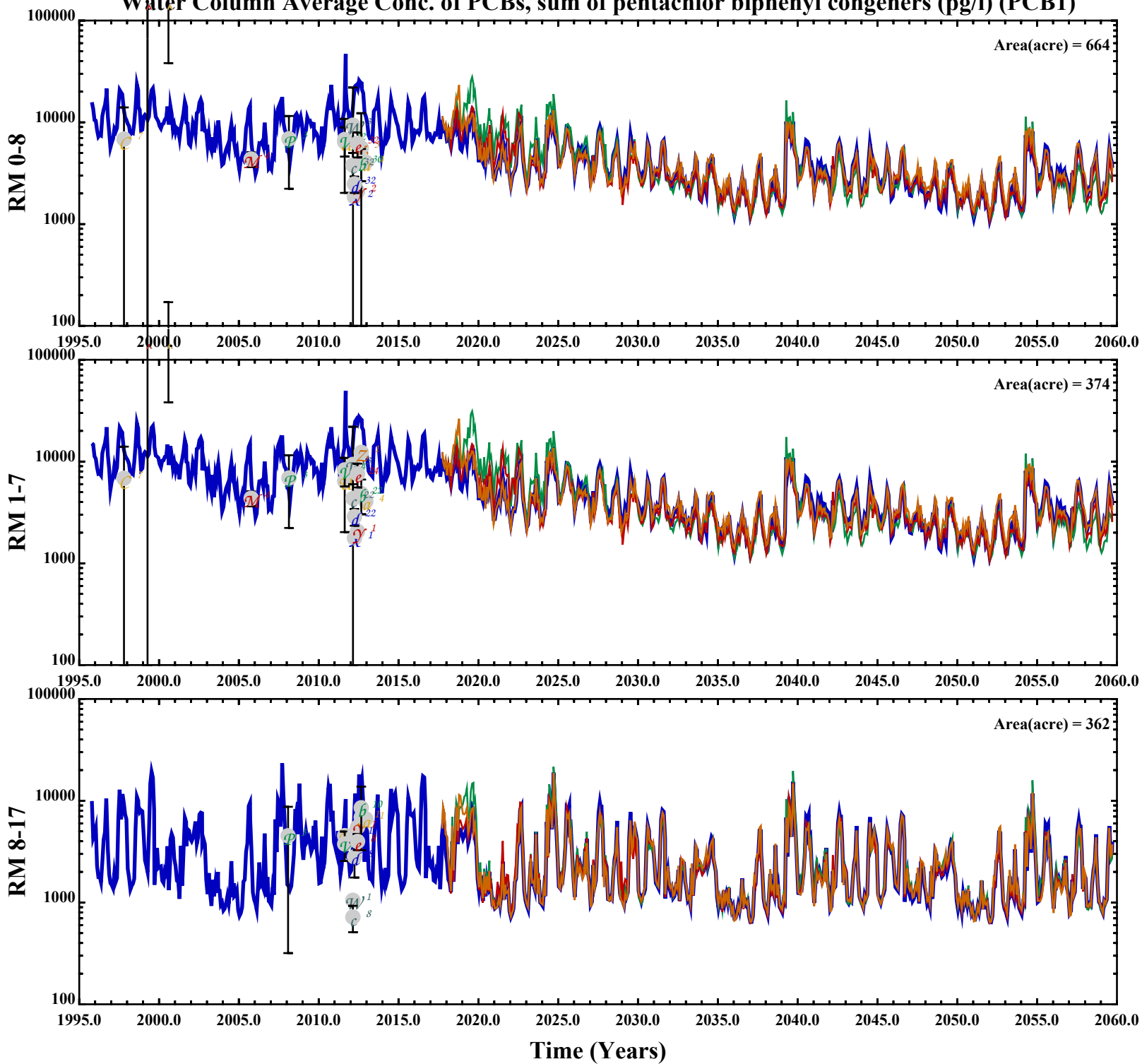


# Water Column Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (pg/l) (PCB1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

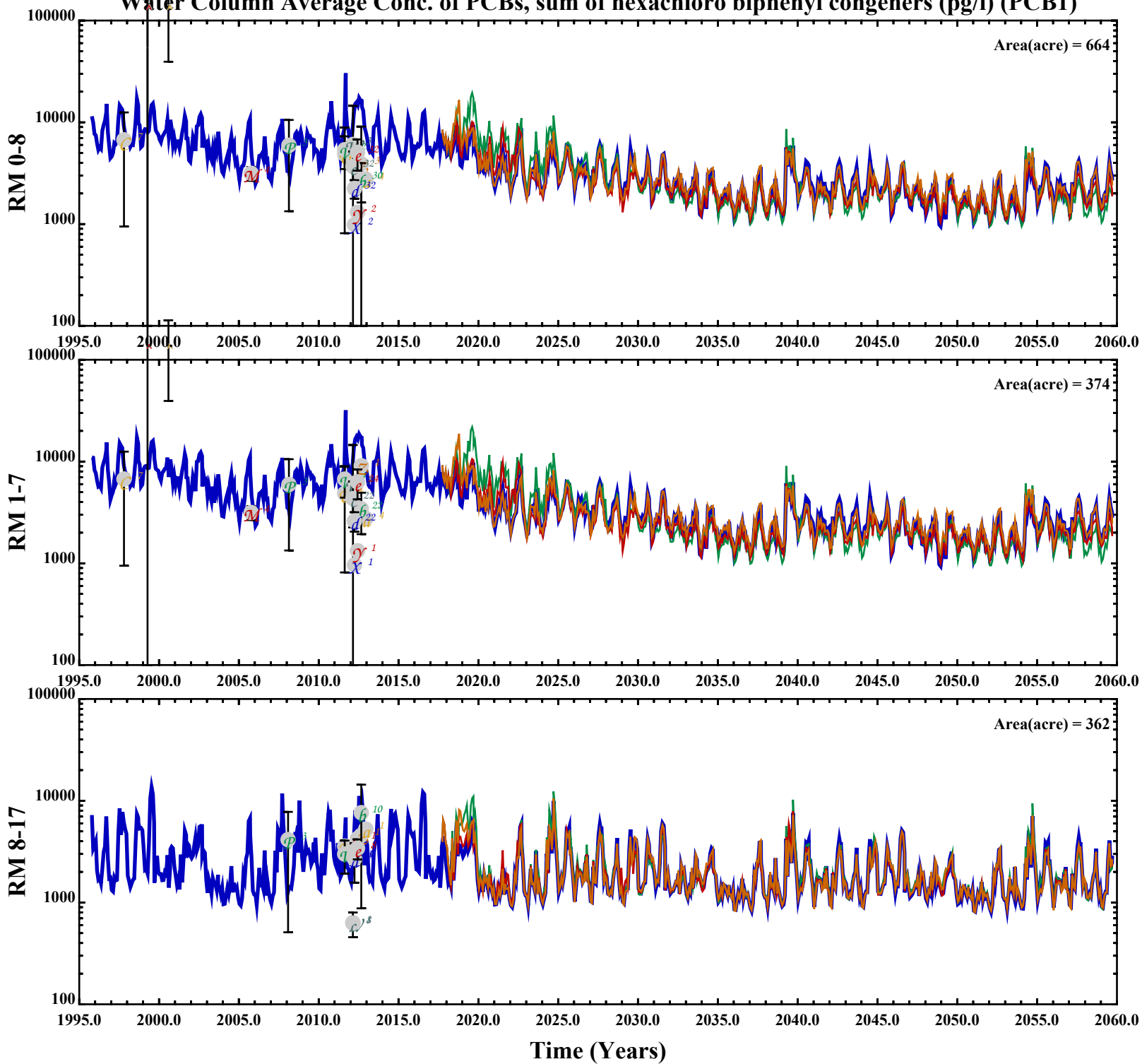
# Water Column Average Conc. of PCBs, sum of pentachlor biphenyl congeners (pg/l) (PCB1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of PCBs, sum of hexachloro biphenyl congeners (pg/l) (PCB1)

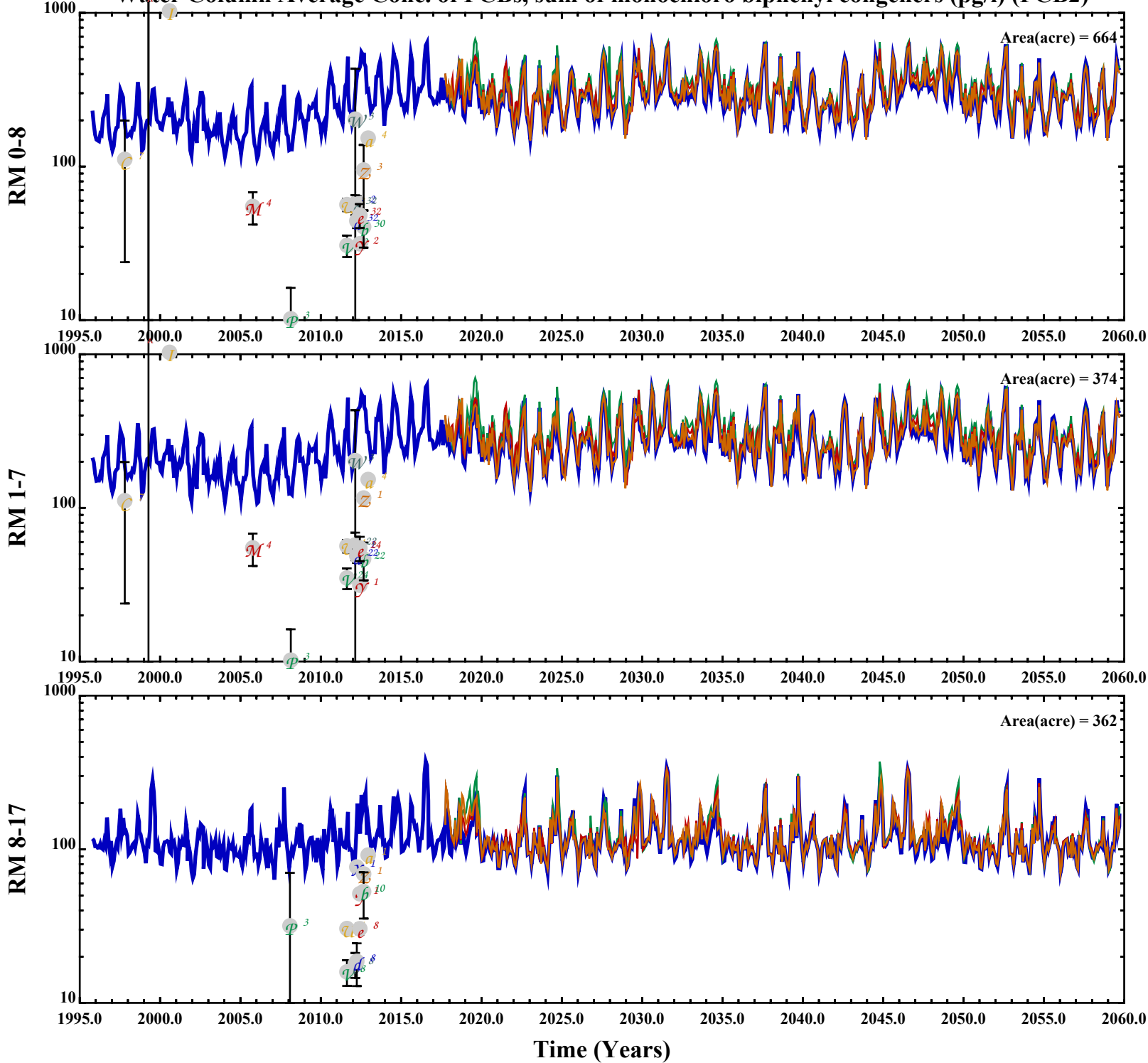


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

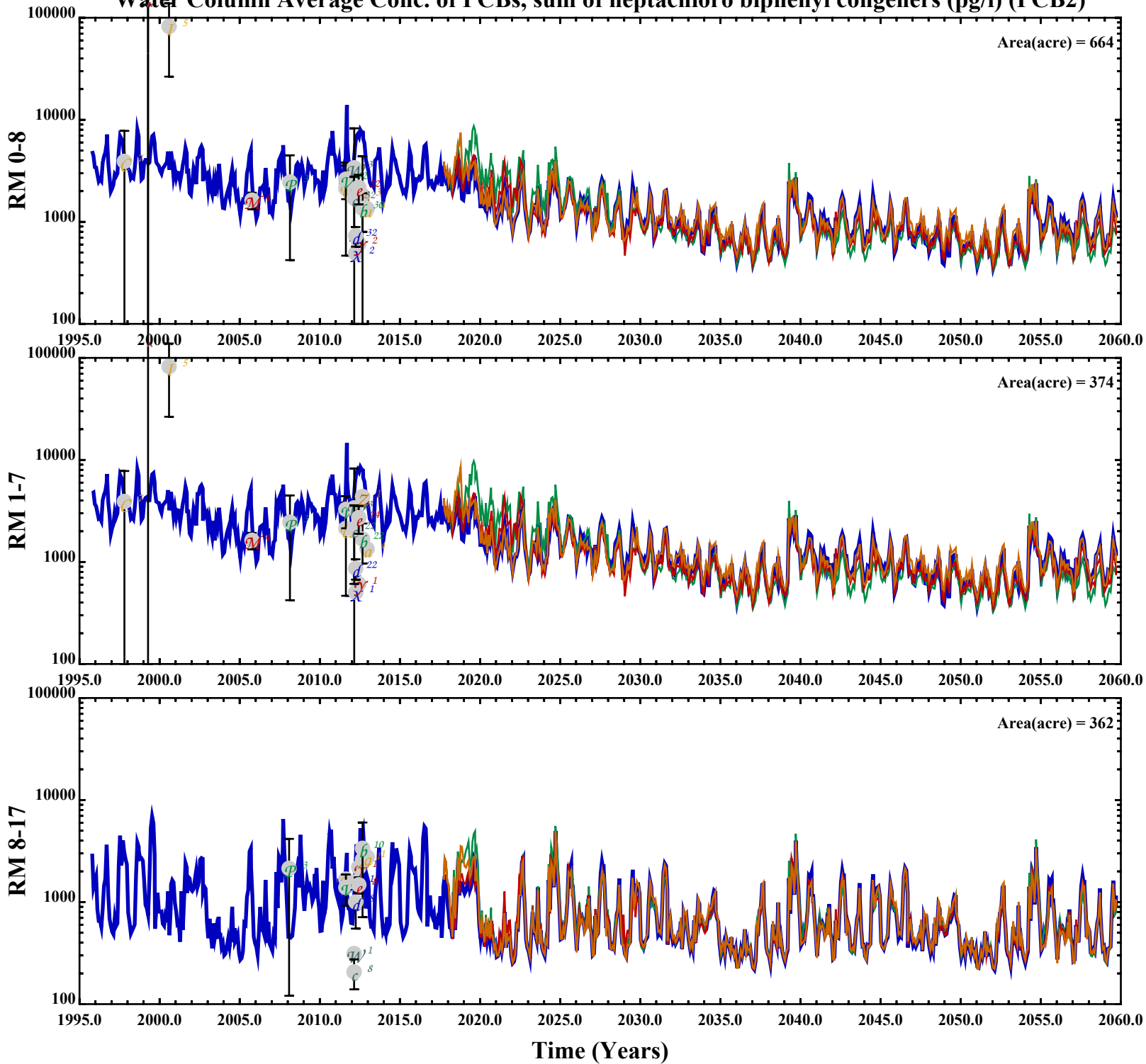


# Water Column Average Conc. of PCBs, sum of monochloro biphenyl congeners (pg/l) (PCB2)



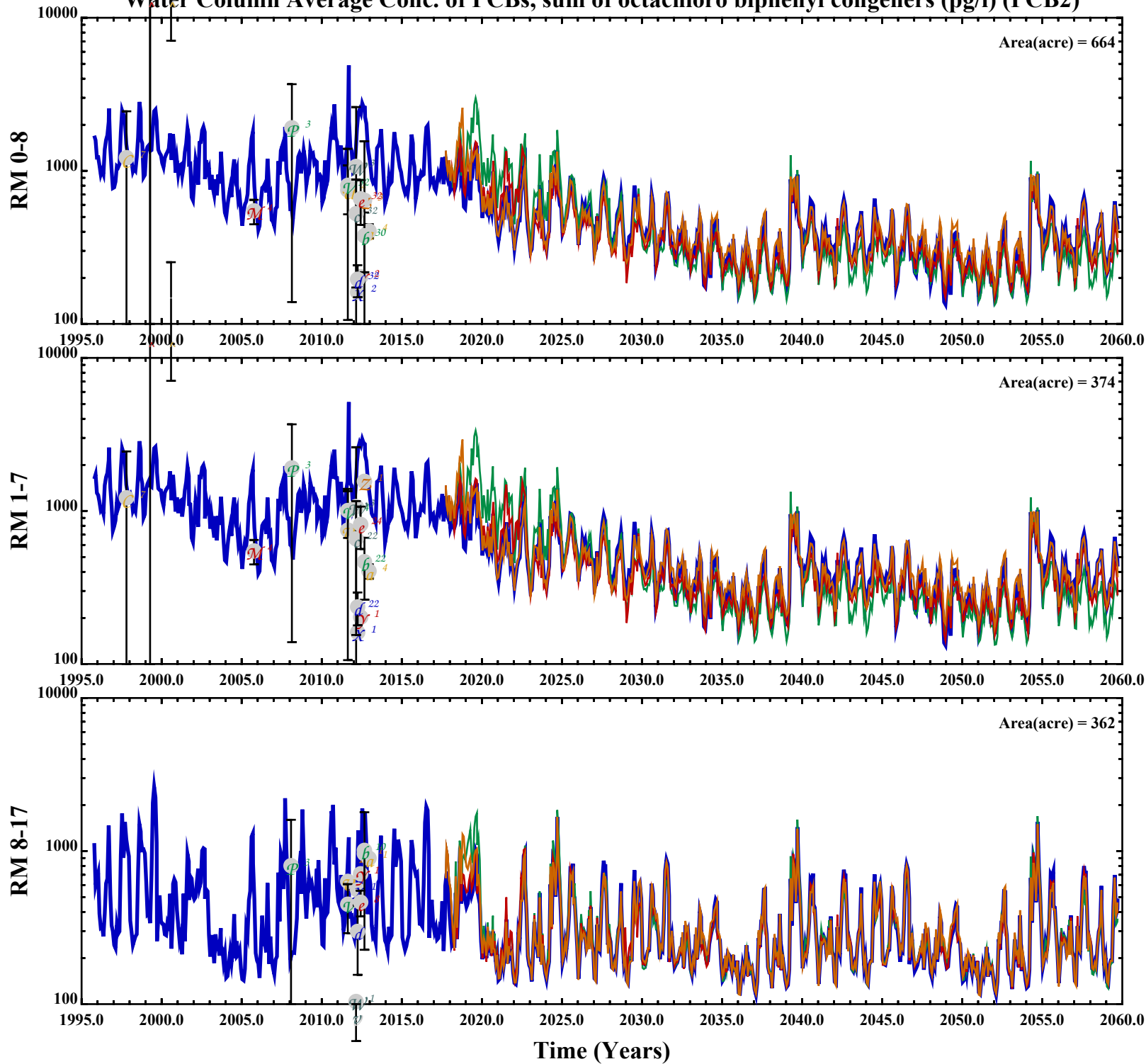
- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of PCBs, sum of heptachloro biphenyl congeners (pg/l) (PCB2)



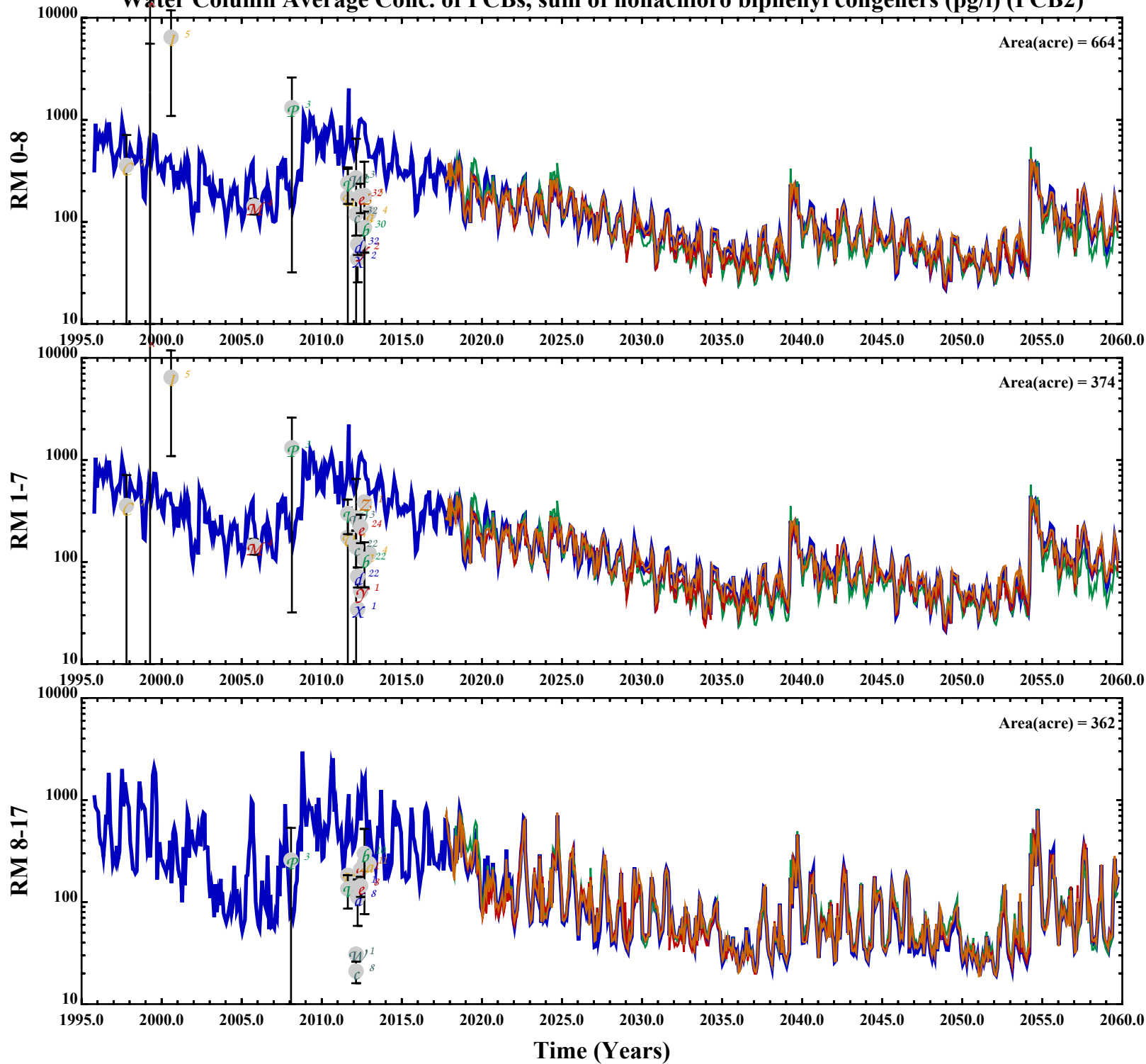
- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 Newark Bay Reach ABCD Baseline Sampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of PCBs, sum of octachloro biphenyl congeners (pg/l) (PCB2)



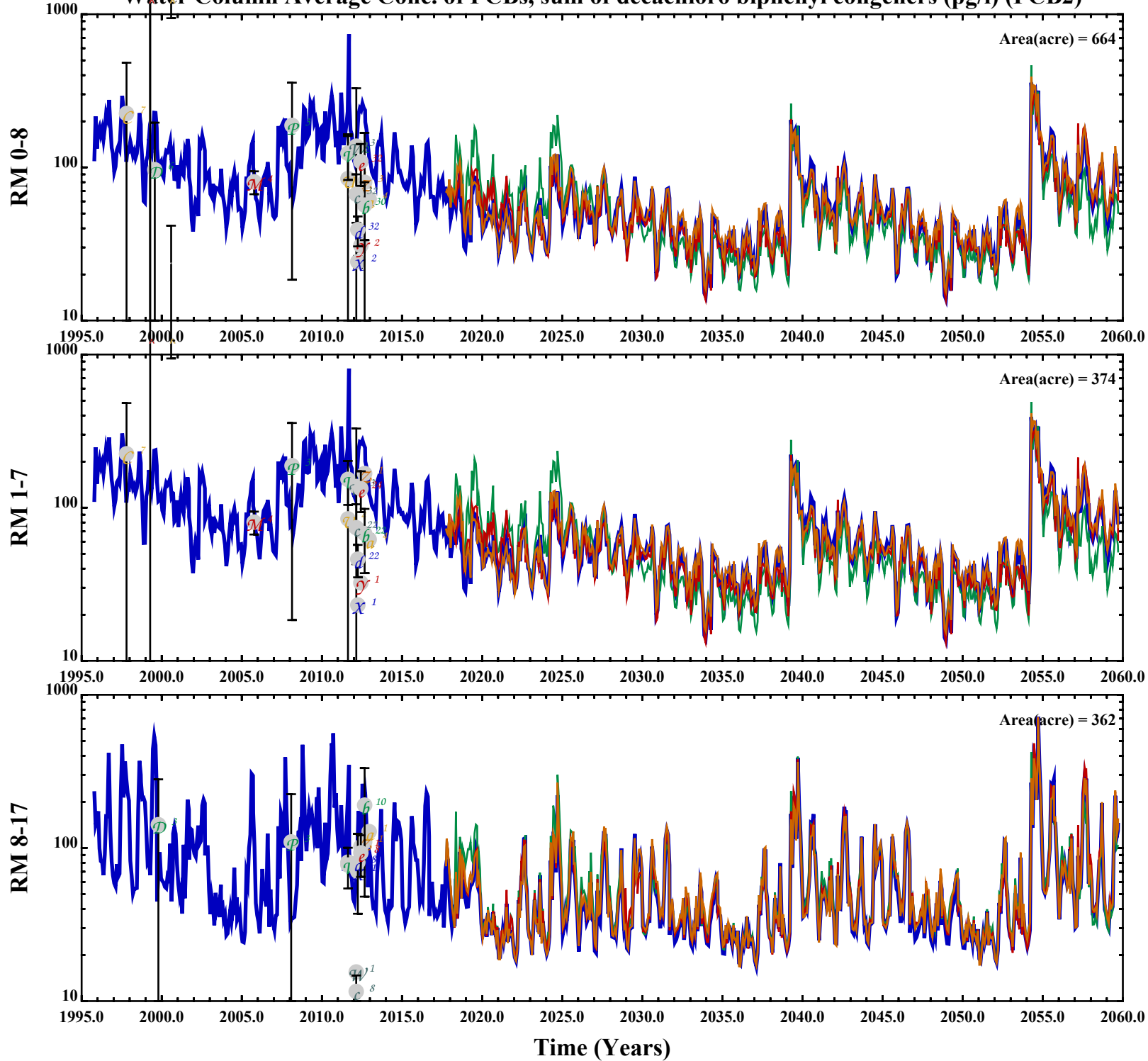
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

# Water Column Average Conc. of PCBs, sum of nonachloro biphenyl congeners (pg/l) (PCB2)

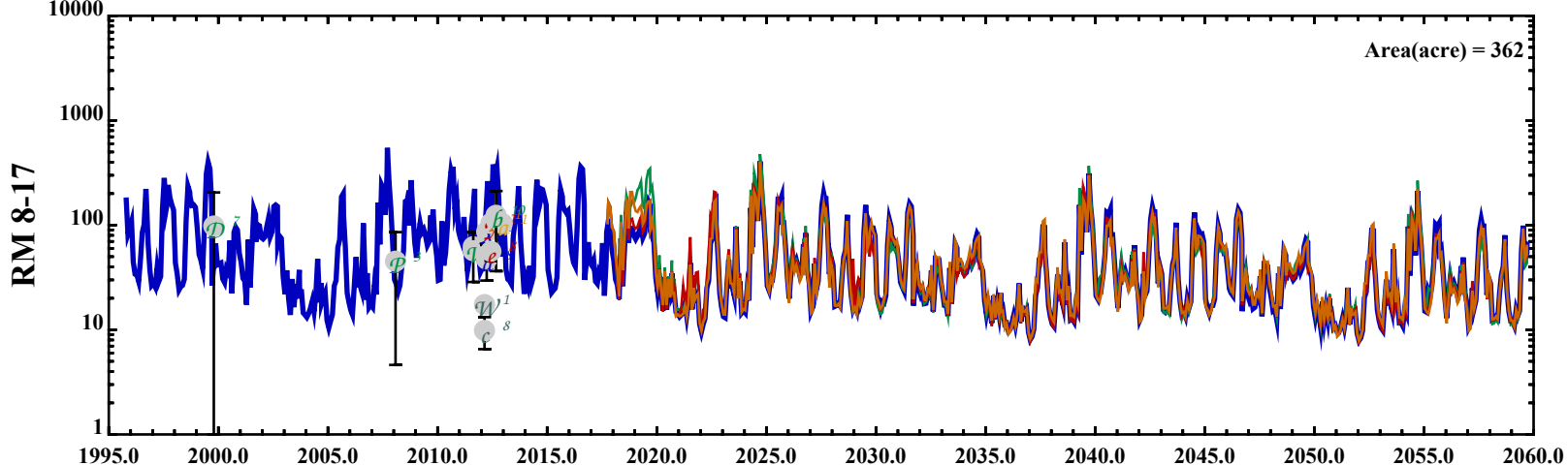
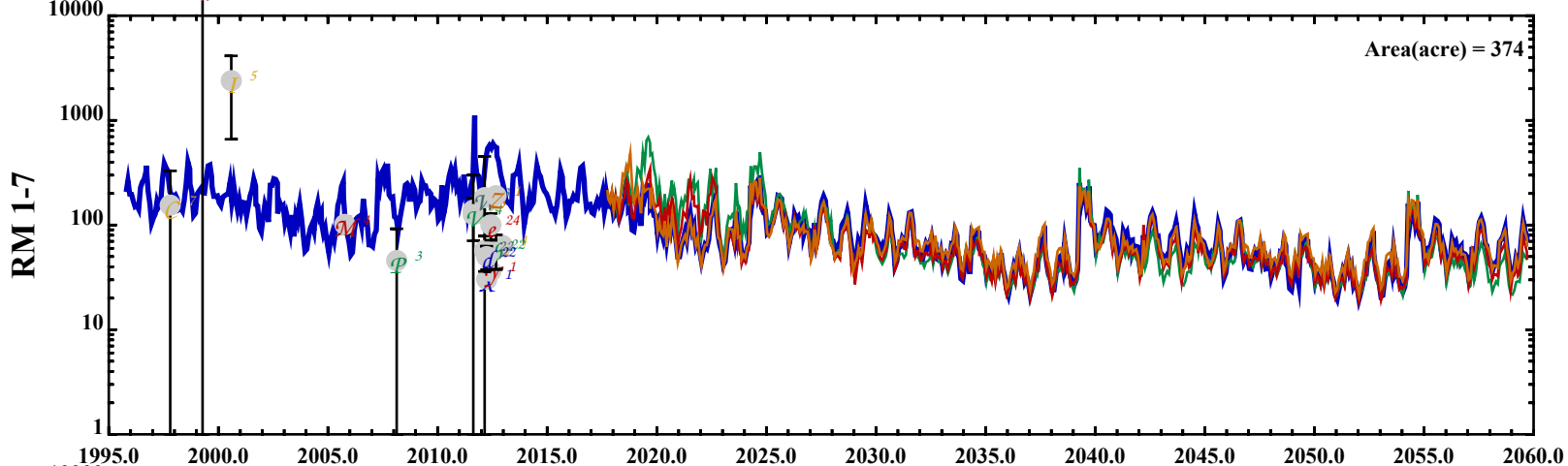
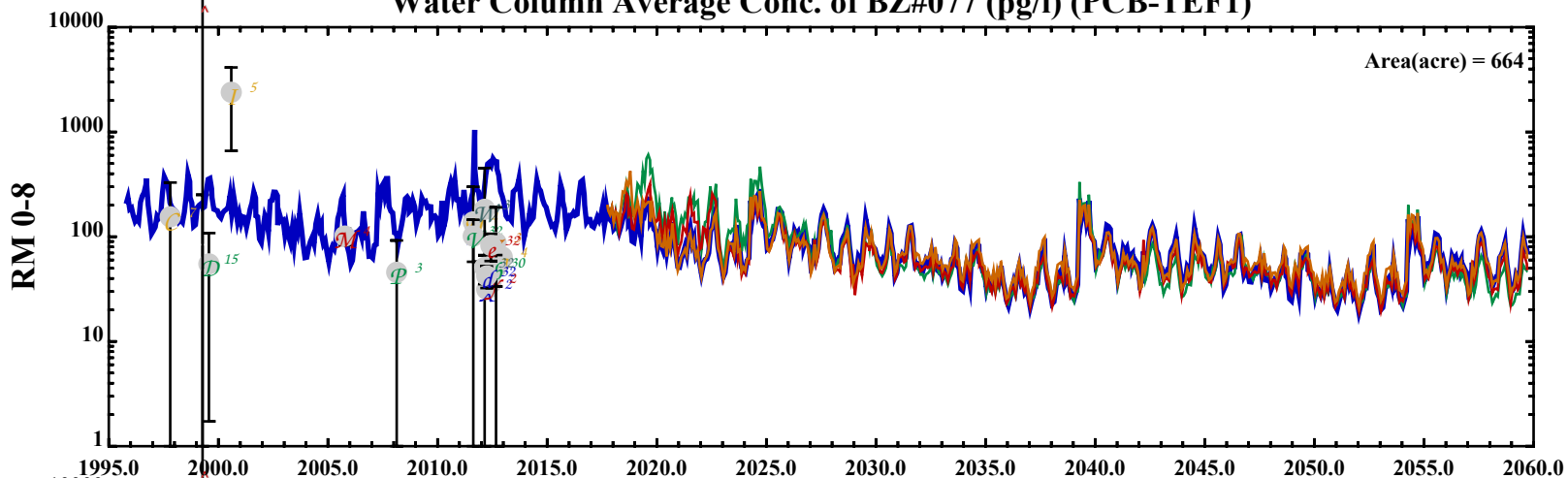


- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 Newark Bay Reach ABCD Baseline Sampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of PCBs, sum of decachloro biphenyl congeners (pg/l) (PCB2)



# Water Column Average Conc. of BZ#077 (pg/l) (PCB-TEF1)



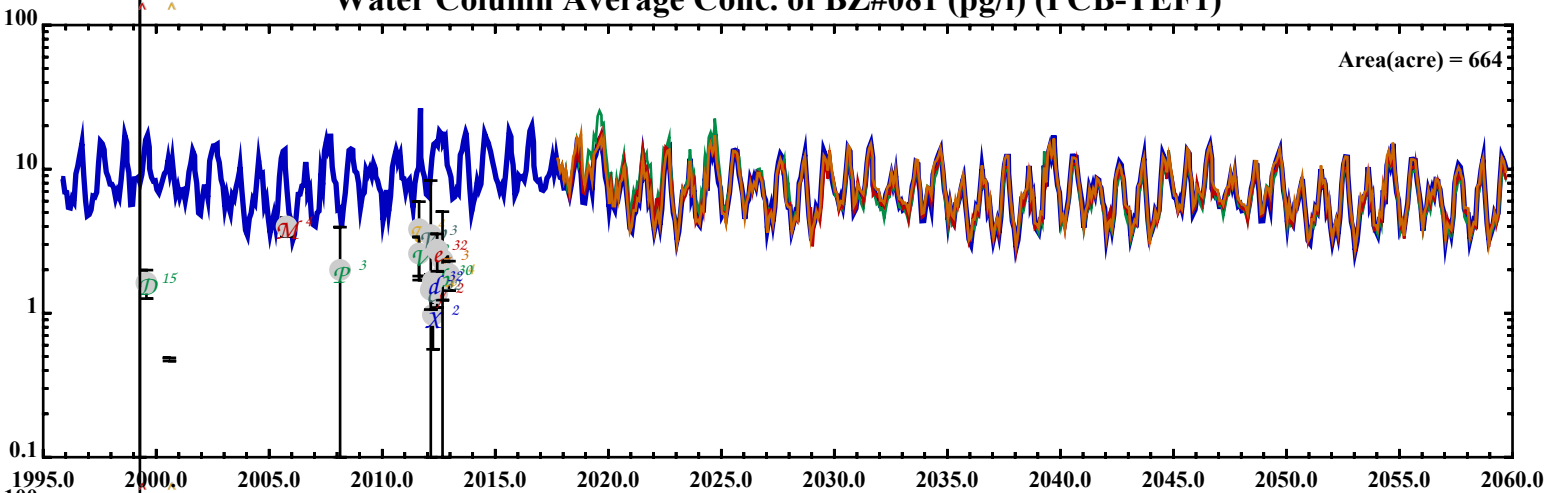
Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

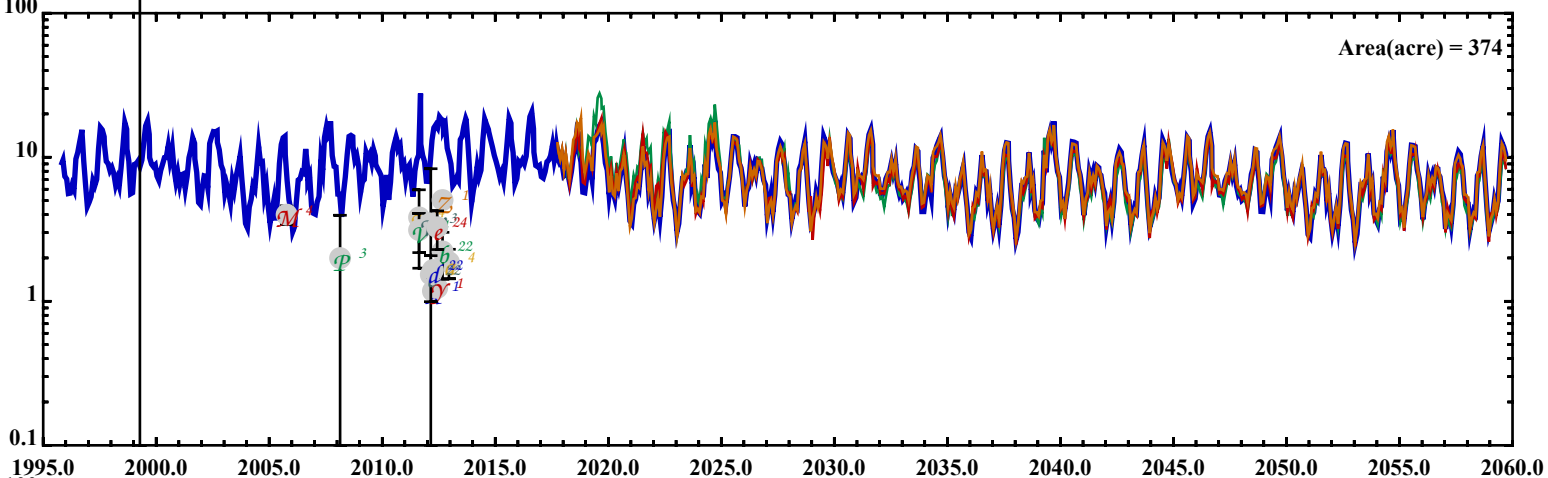
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of BZ#081 (pg/l) (PCB-TEF1)

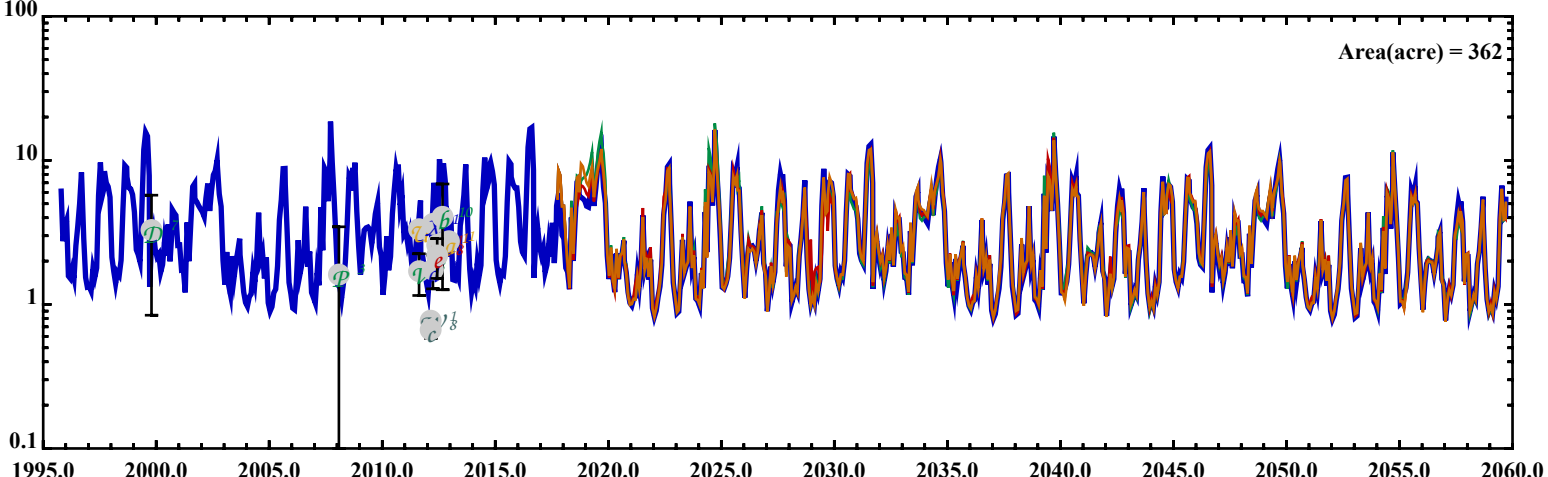
RM 0-8



RM 1-7



RM 8-17

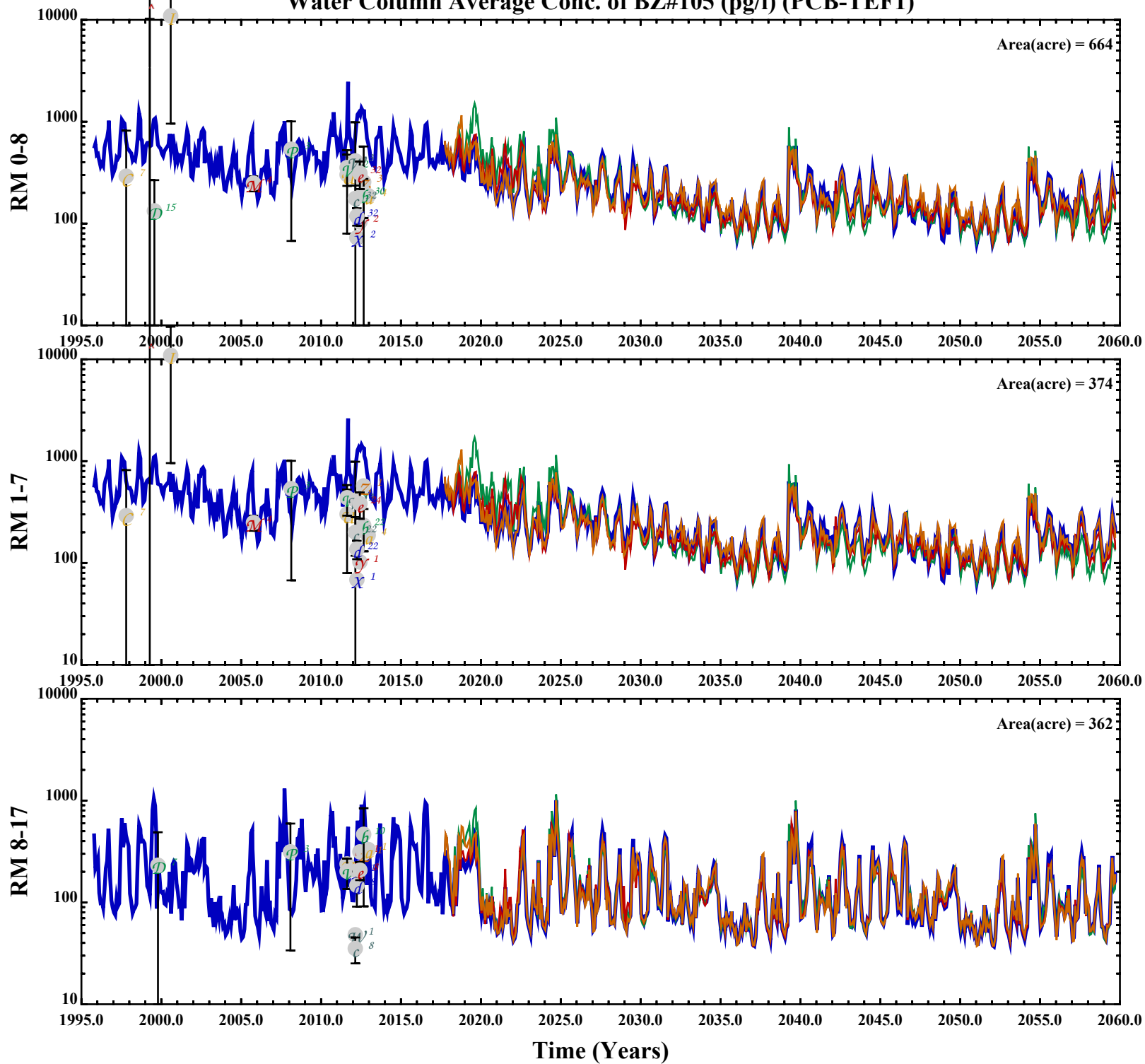


Time (Years)

- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of BZ#105 (pg/l) (PCB-TEF1)

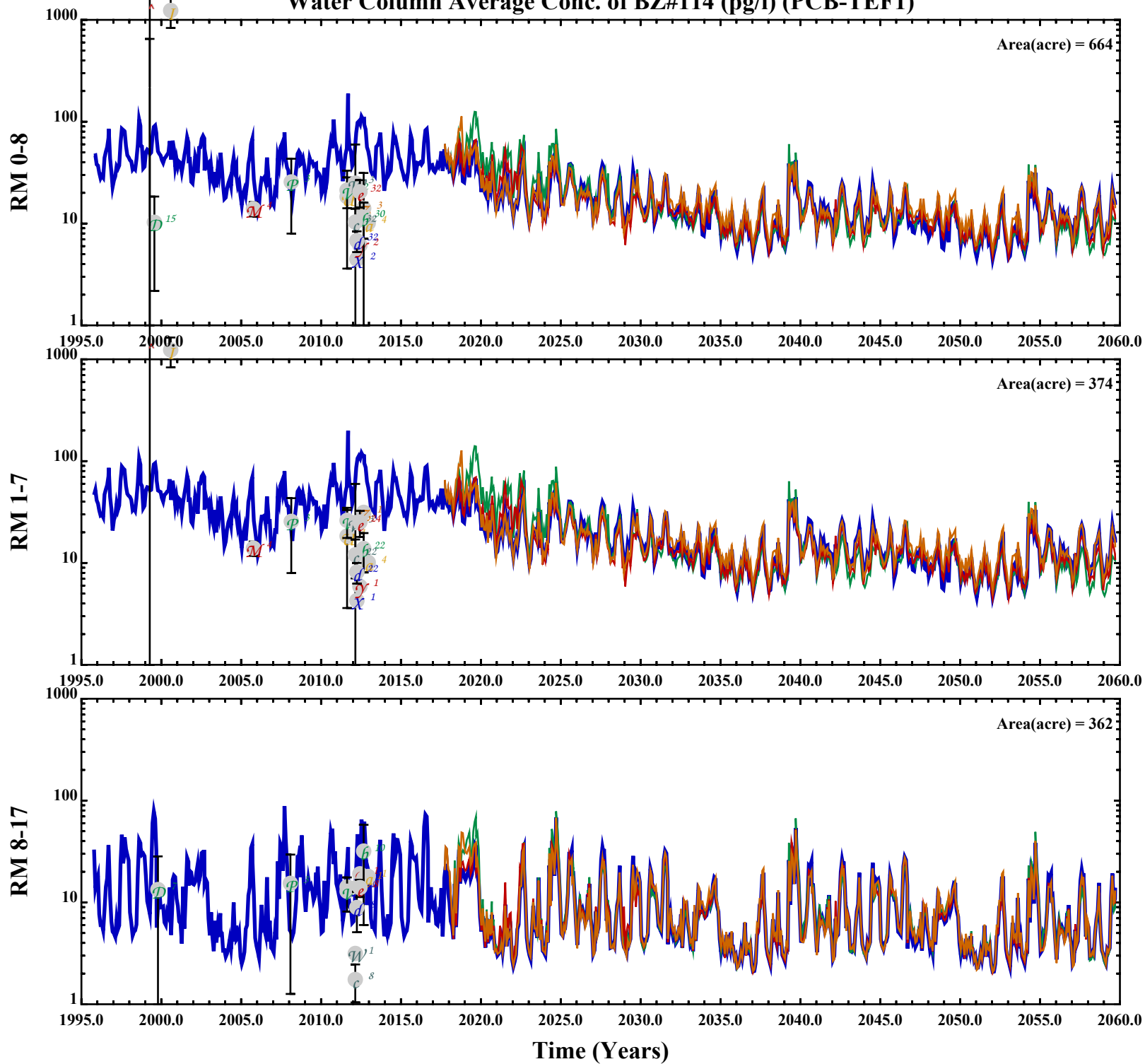


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up (Blue line)
- Deep Dredging (Green line)
- Full Capping (Red line)
- Focused Capping (Orange line)

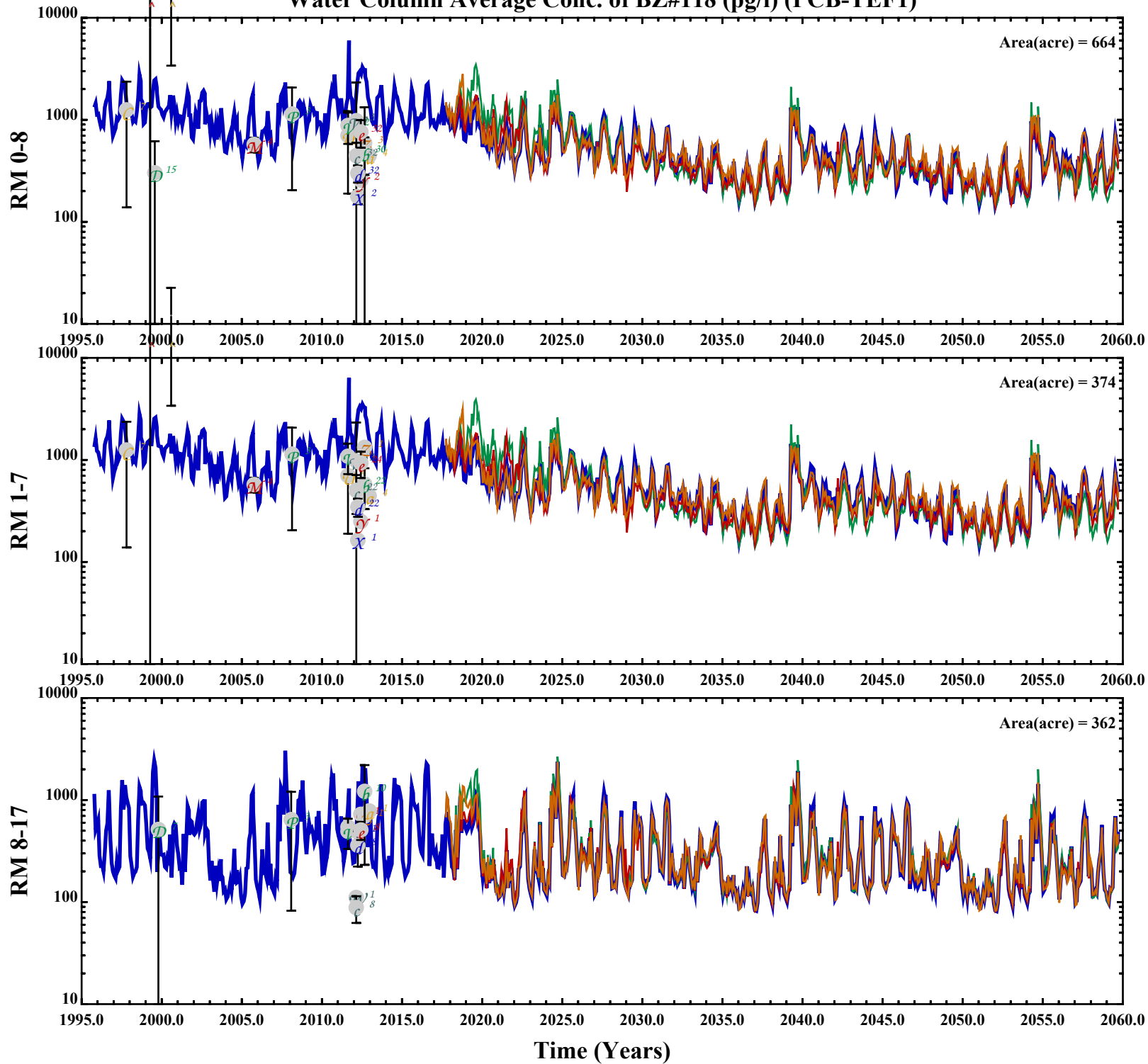


# Water Column Average Conc. of BZ#114 (pg/l) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

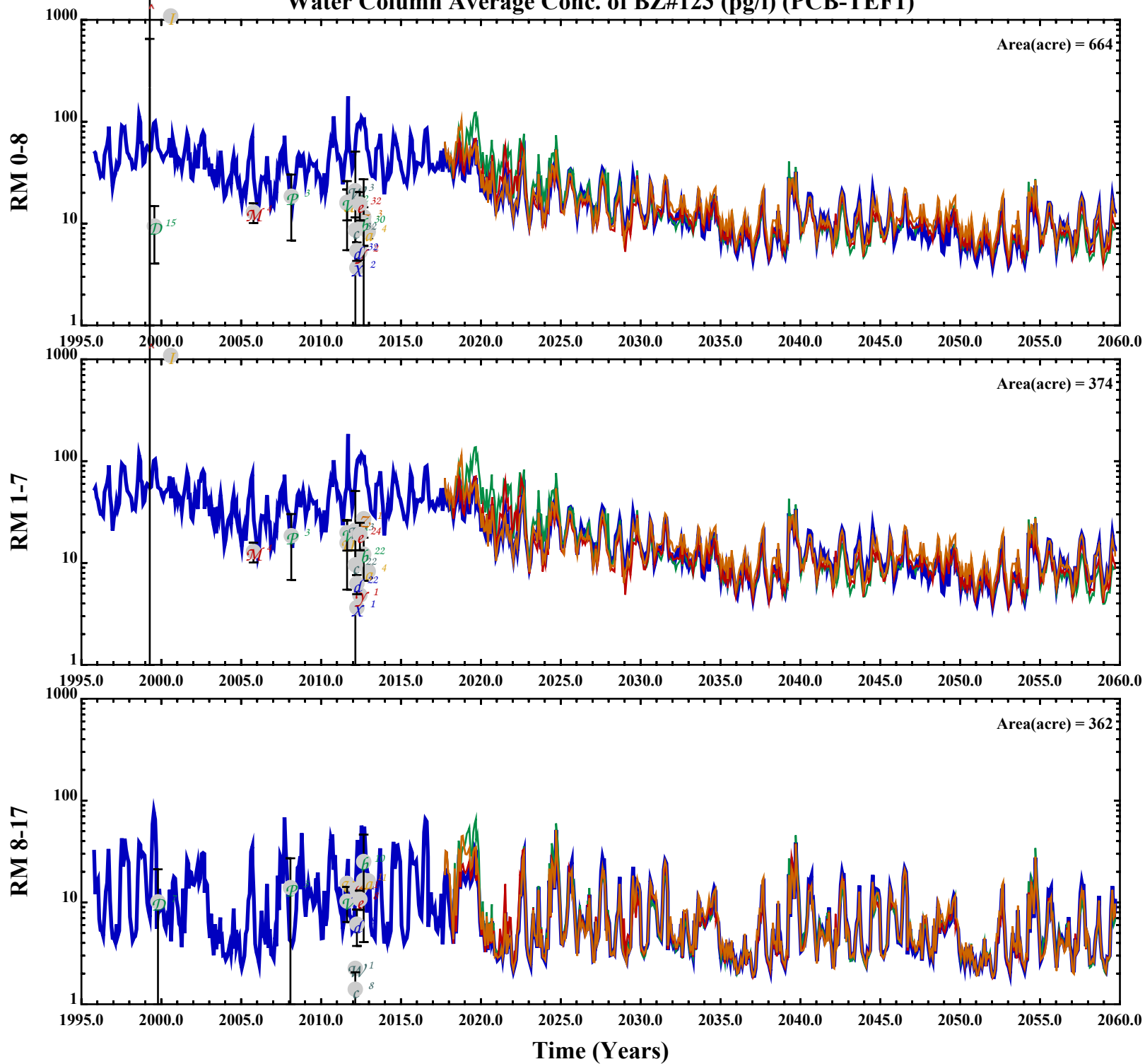
# Water Column Average Conc. of BZ#118 (pg/l) (PCB-TEF1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

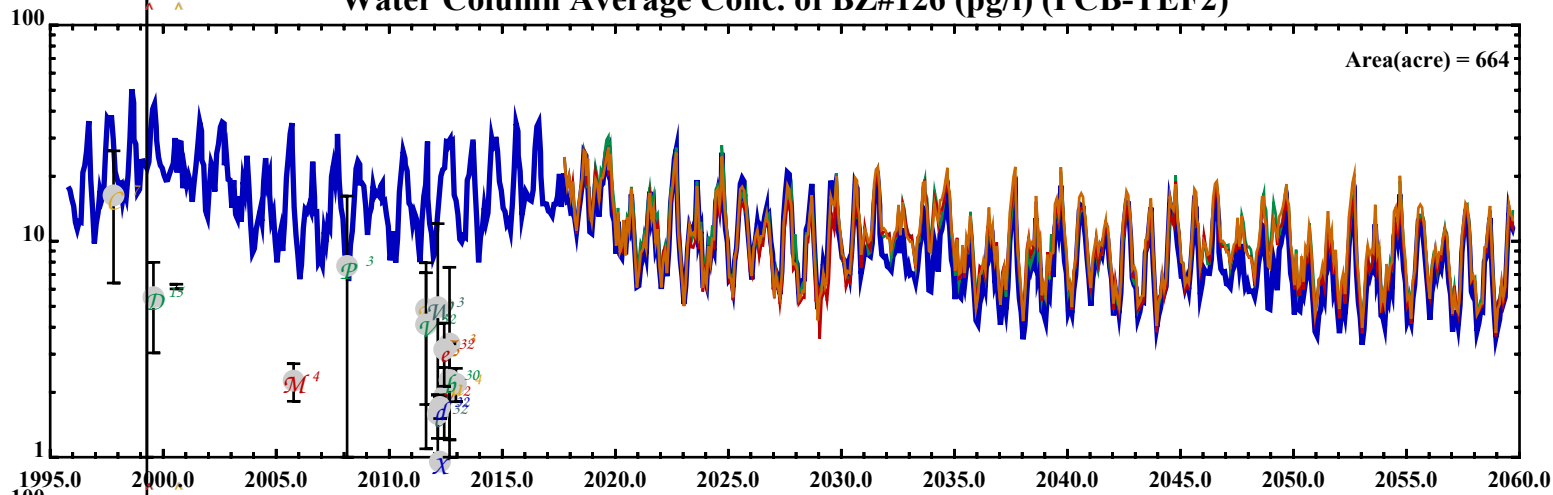
# Water Column Average Conc. of BZ#123 (pg/l) (PCB-TEF1)



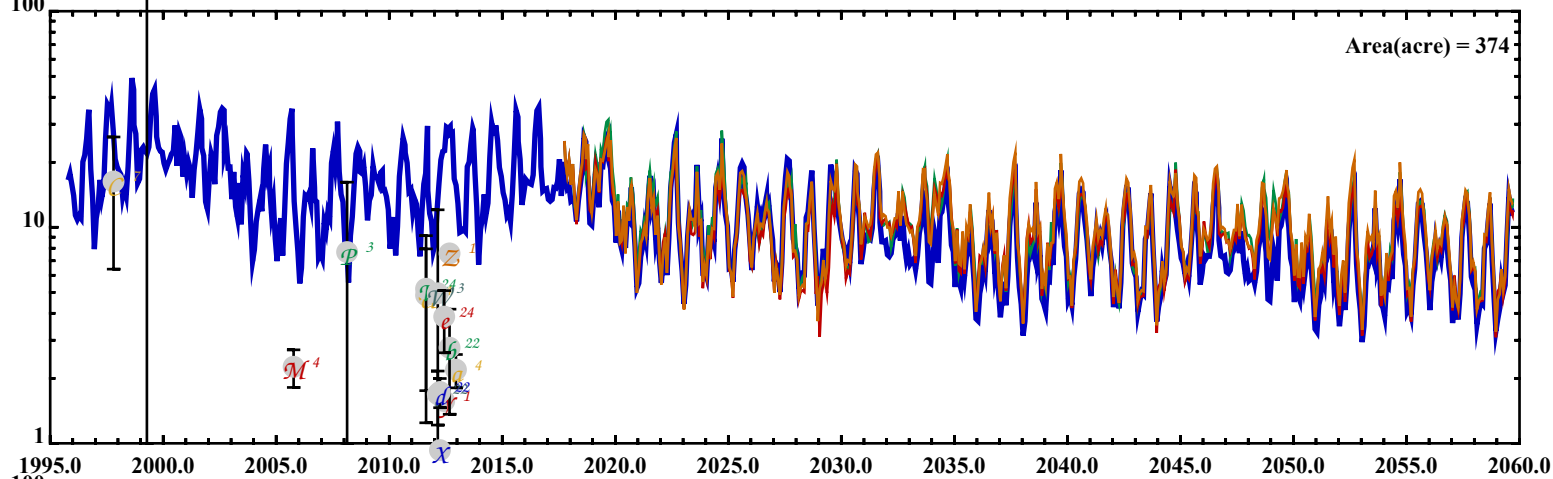
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

# Water Column Average Conc. of BZ#126 (pg/l) (PCB-TEF2)

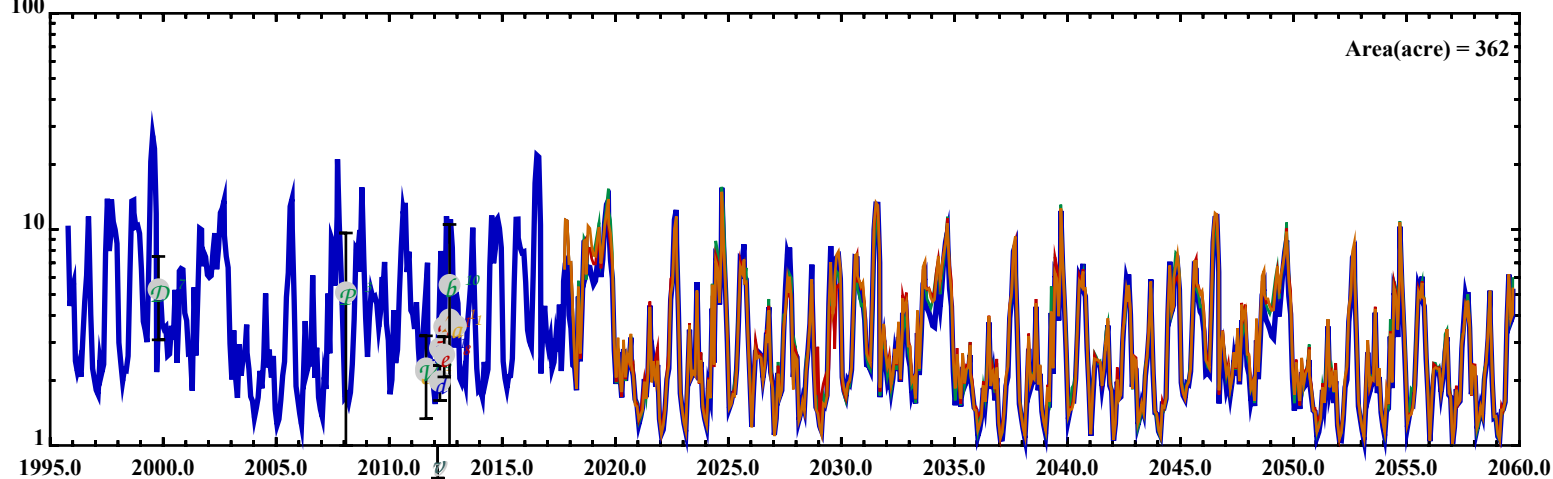
RM 0-8



RM 1-7



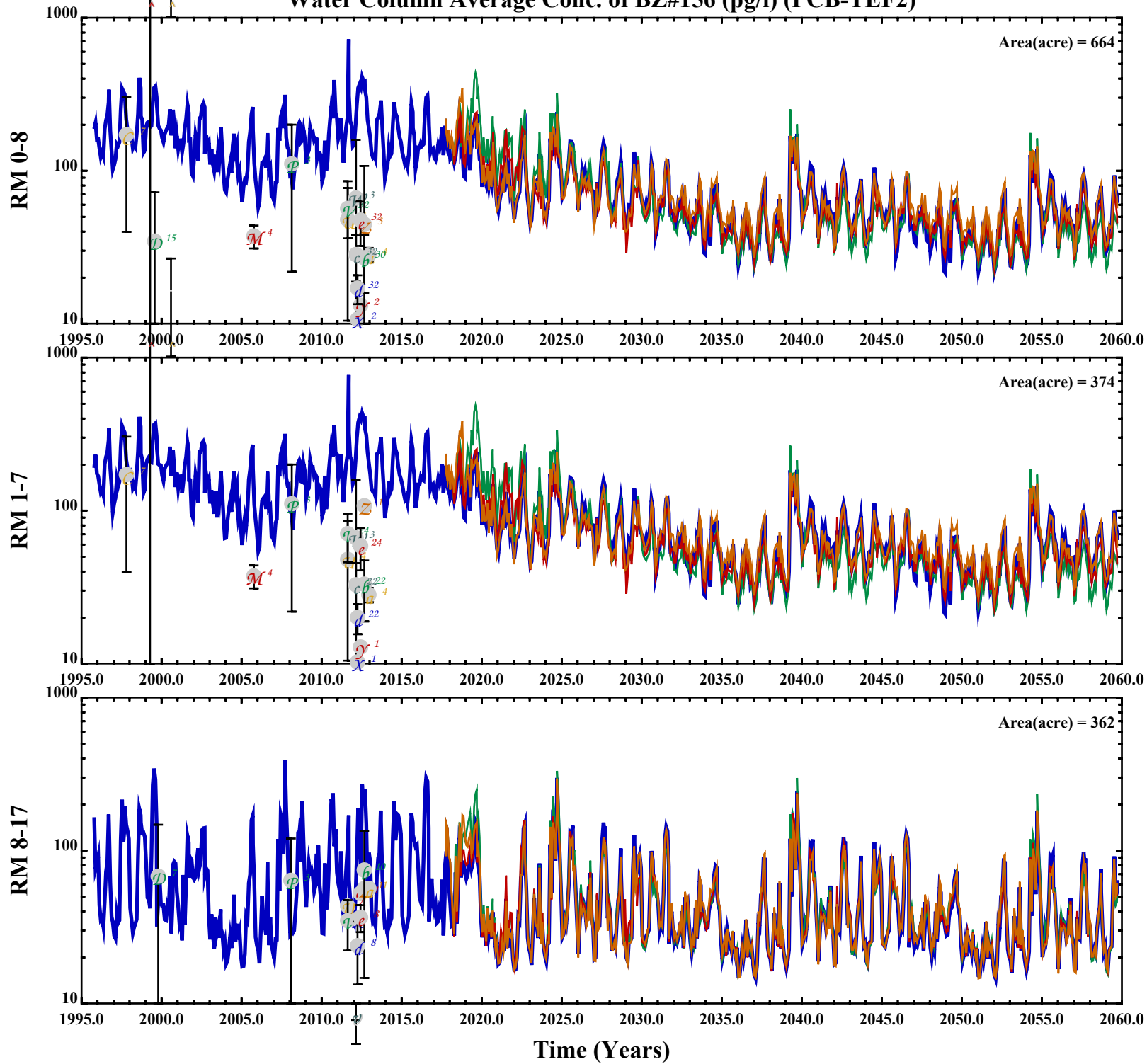
RM 8-17



Time (Years)

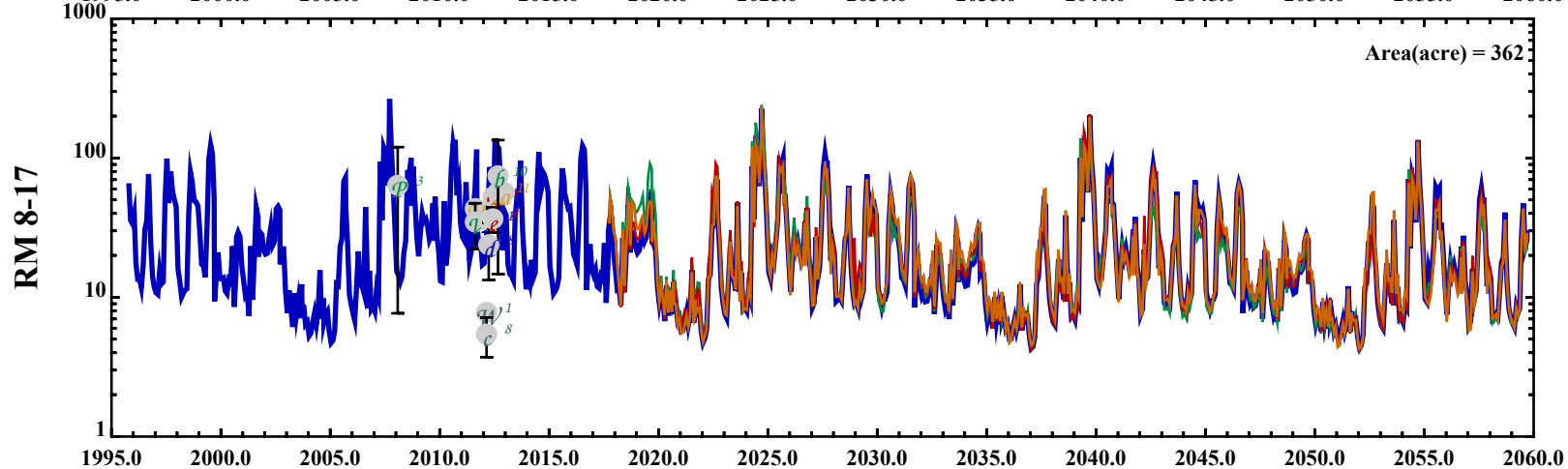
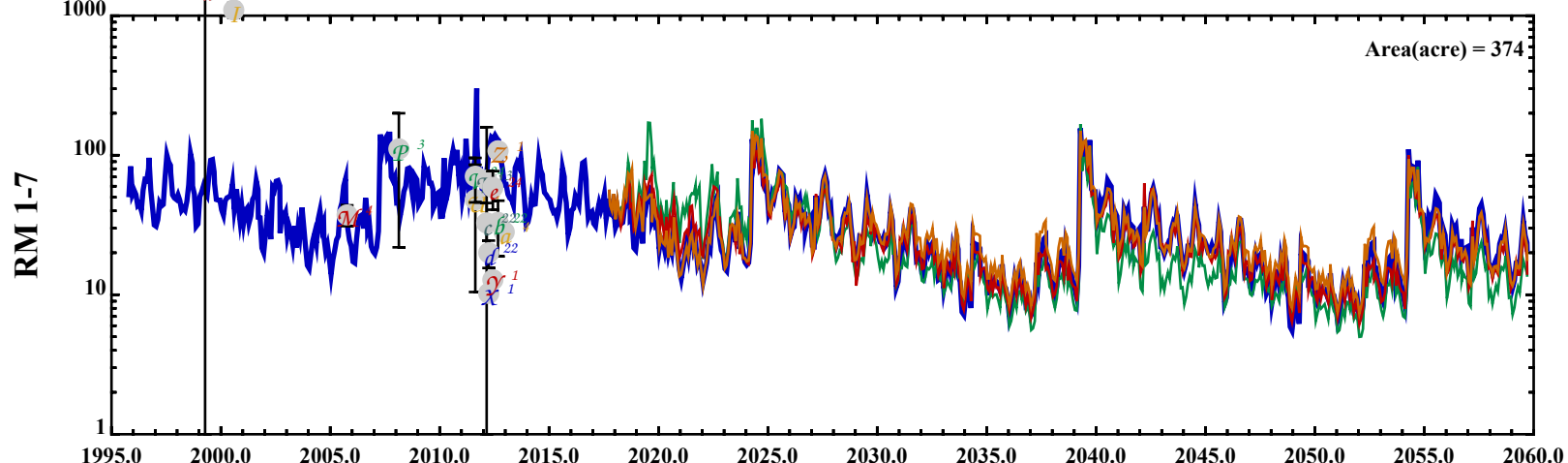
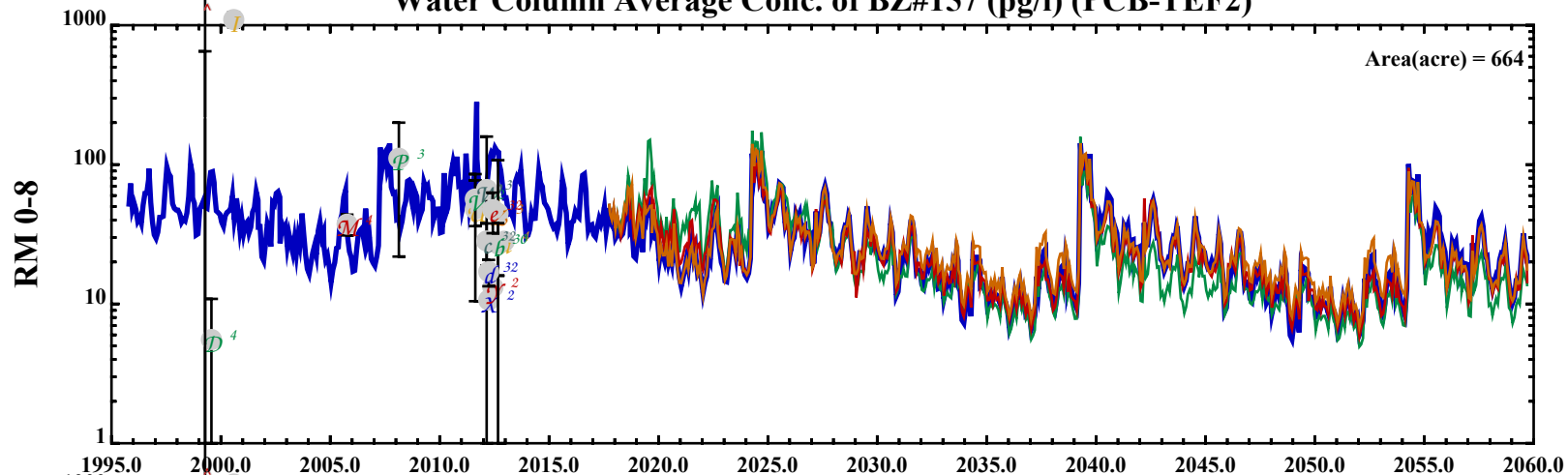
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 USEPA LBG-CDM PWCM Oversight
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#156 (pg/l) (PCB-TEF2)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

# Water Column Average Conc. of BZ#157 (pg/l) (PCB-TEF2)

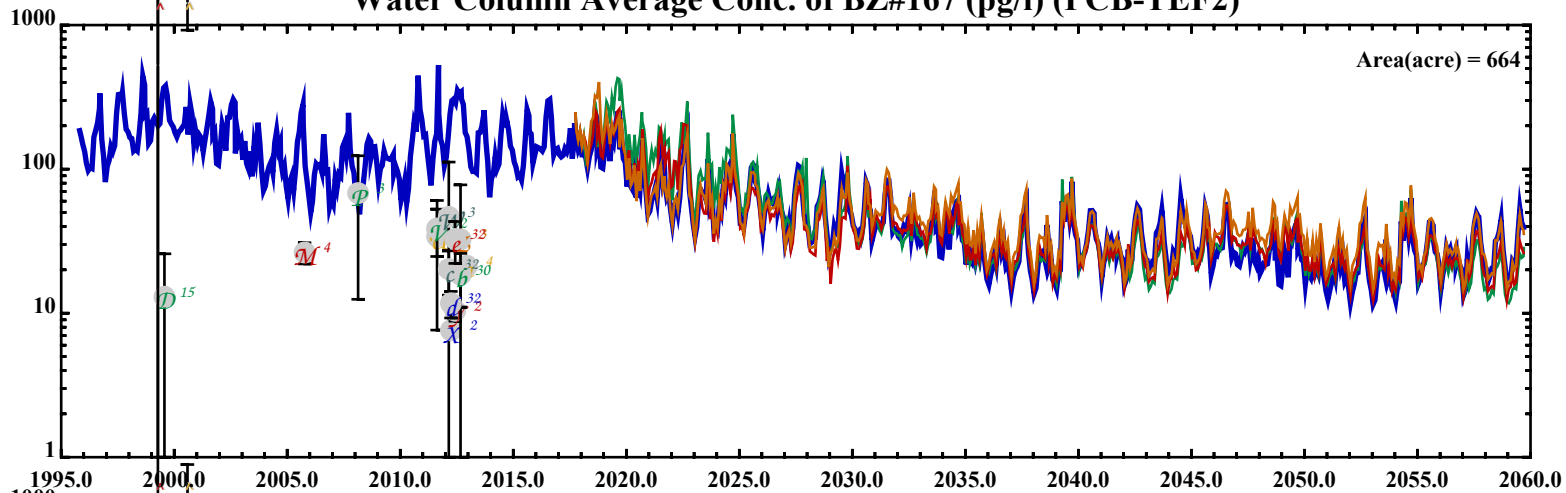


Time (Years)

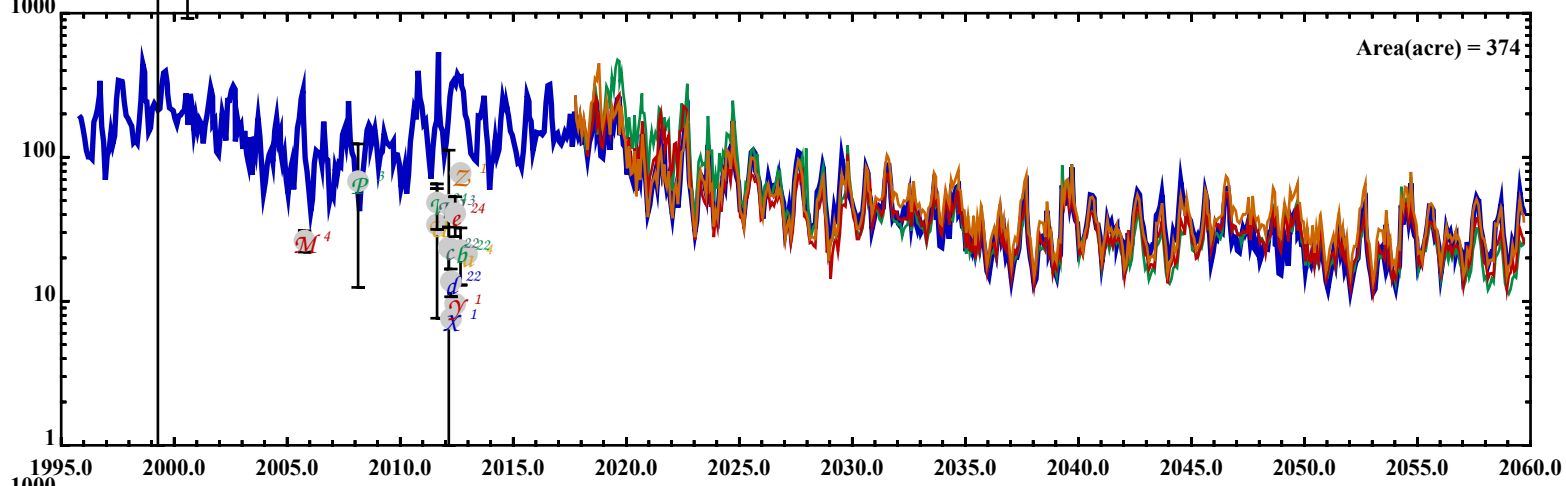
- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#167 (pg/l) (PCB-TEF2)

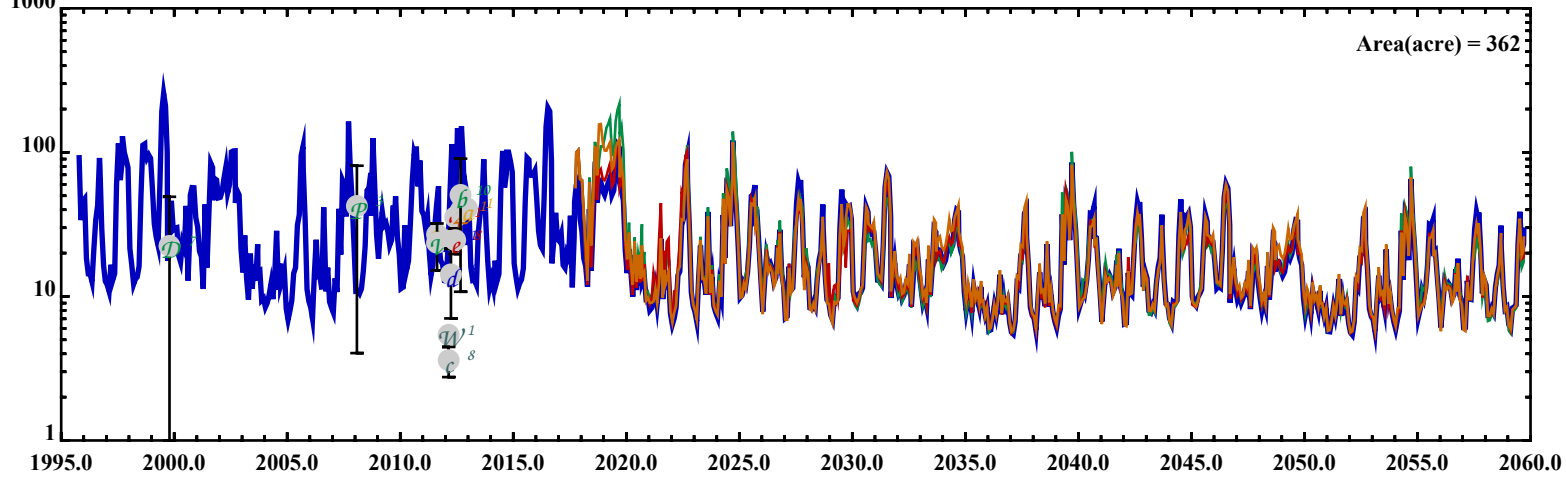
RM 0-8



RM 1-7



RM 8-17

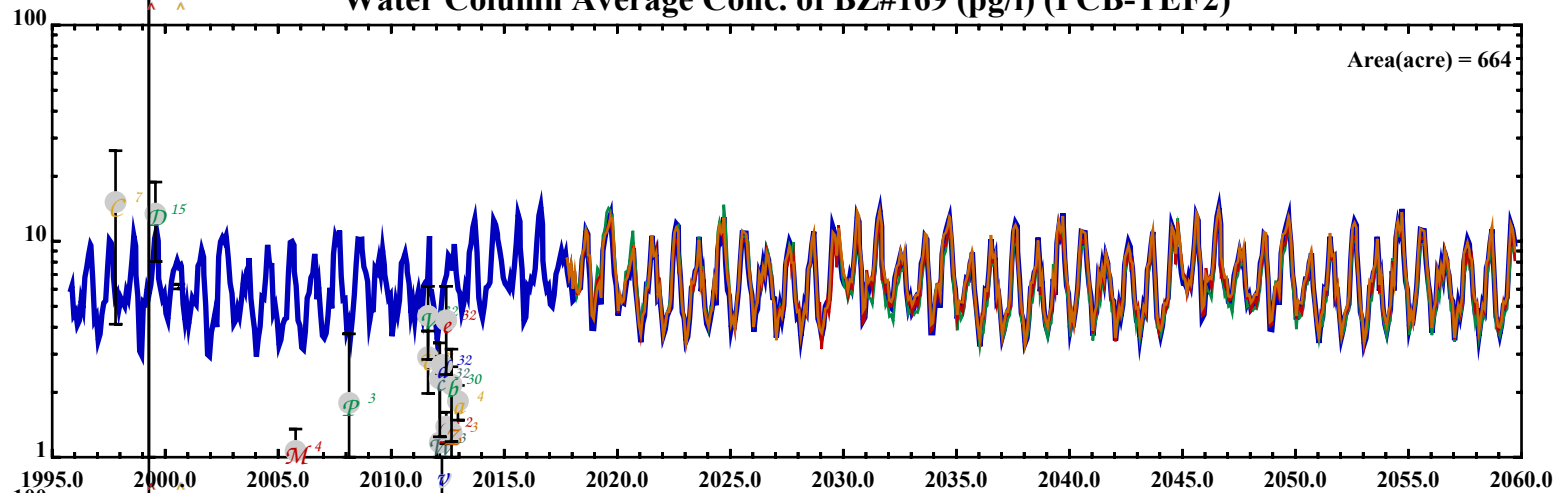


Time (Years)

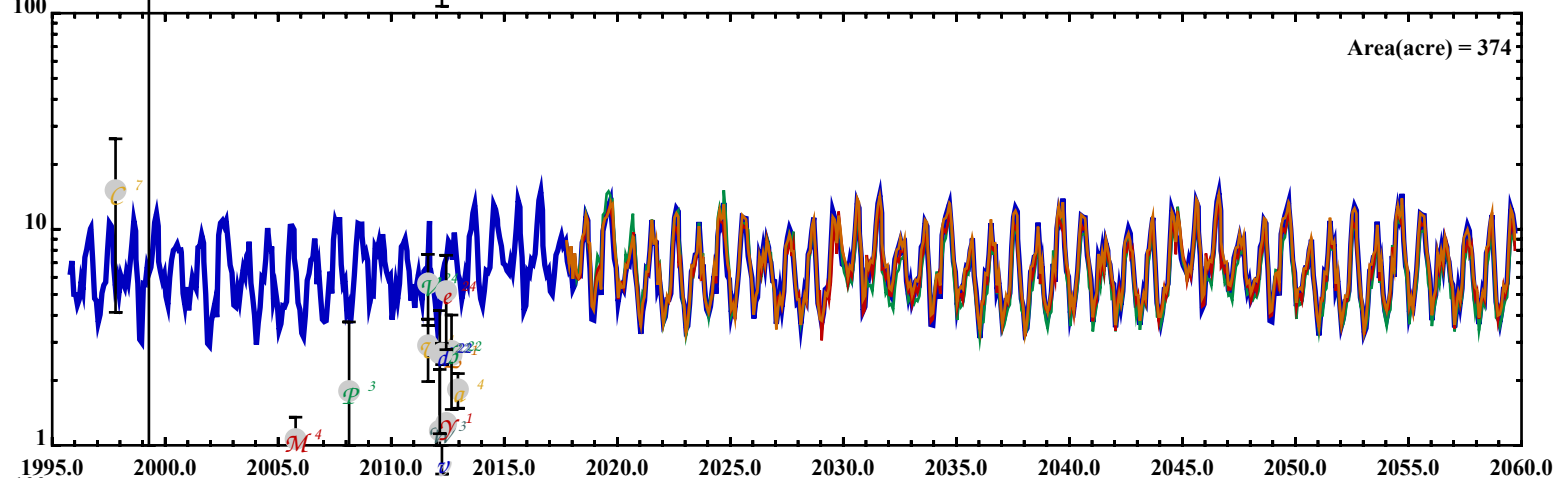
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#169 (pg/l) (PCB-TEF2)

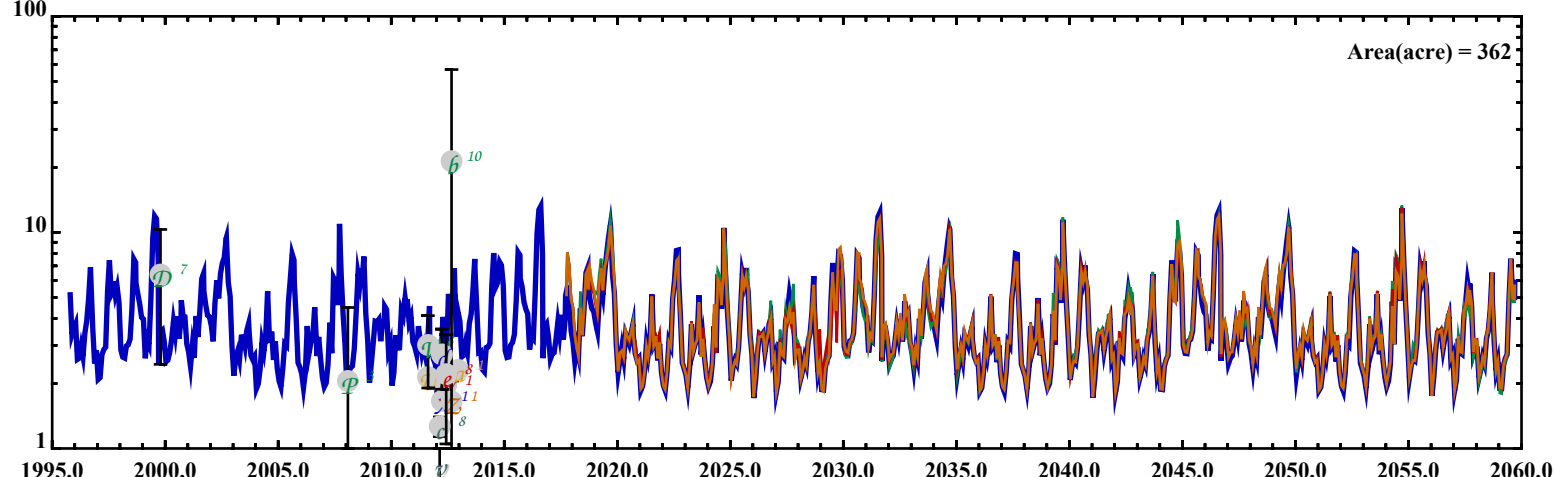
RM 0-8



RM 1-7



RM 8-17



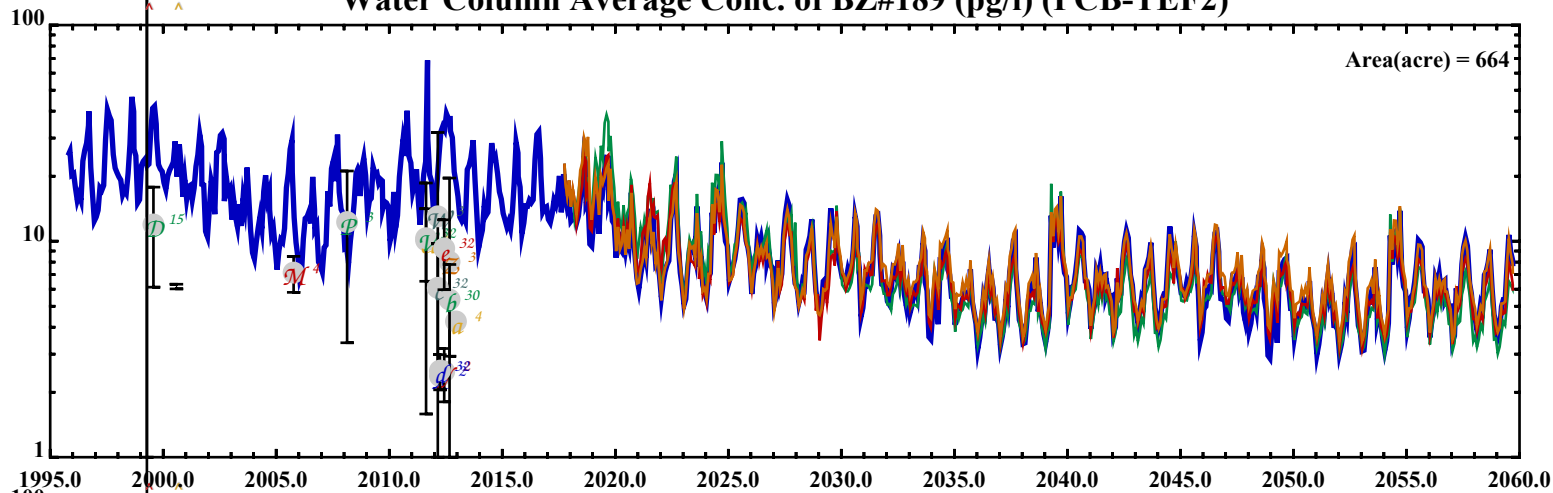
Time (Years)

- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

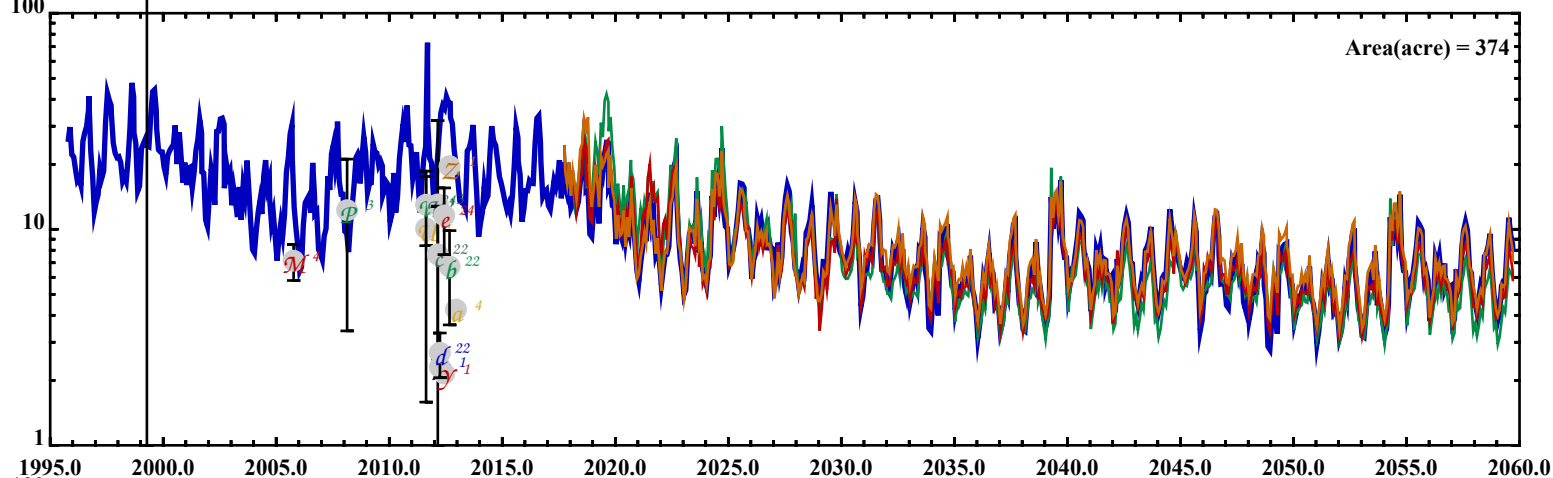


# Water Column Average Conc. of BZ#189 (pg/l) (PCB-TEF2)

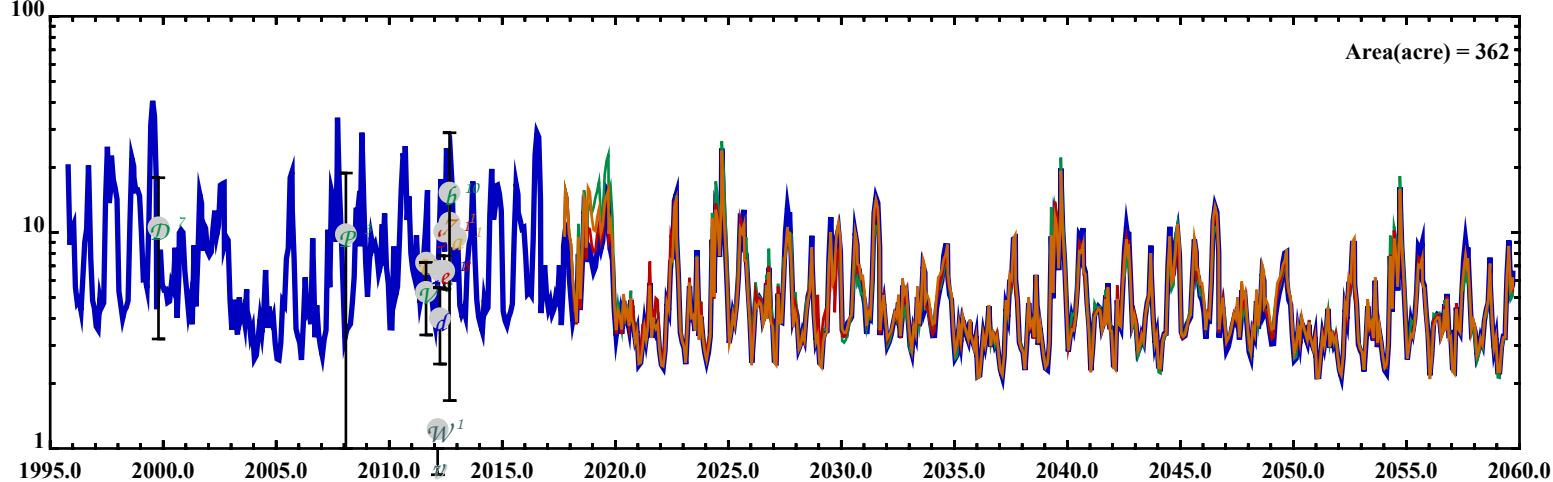
RM 0-8



RM 1-7



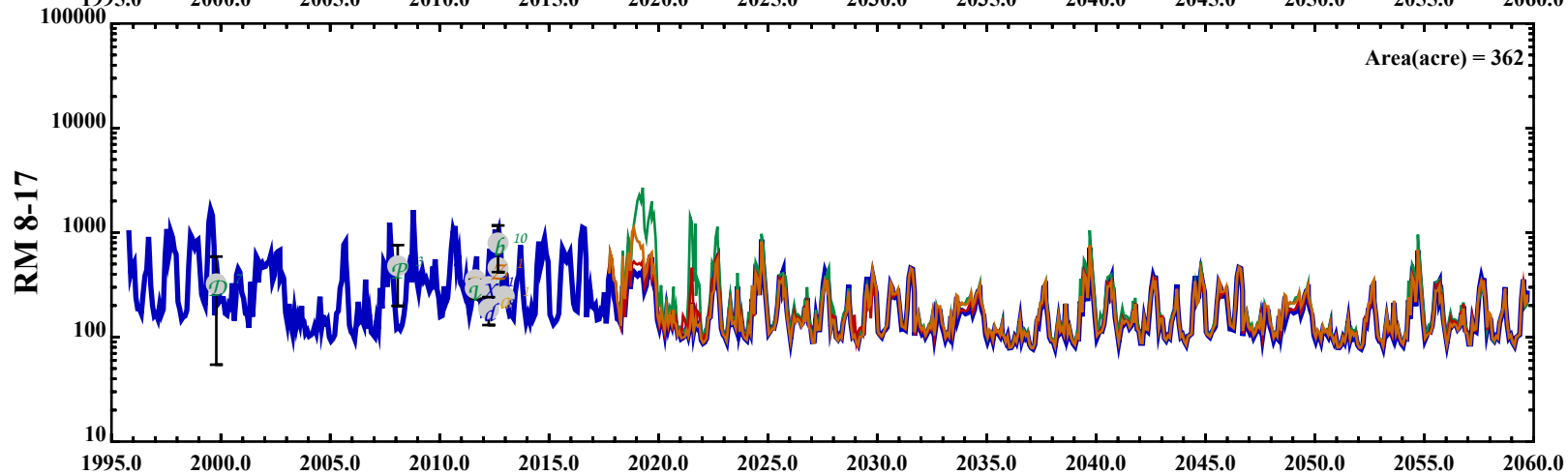
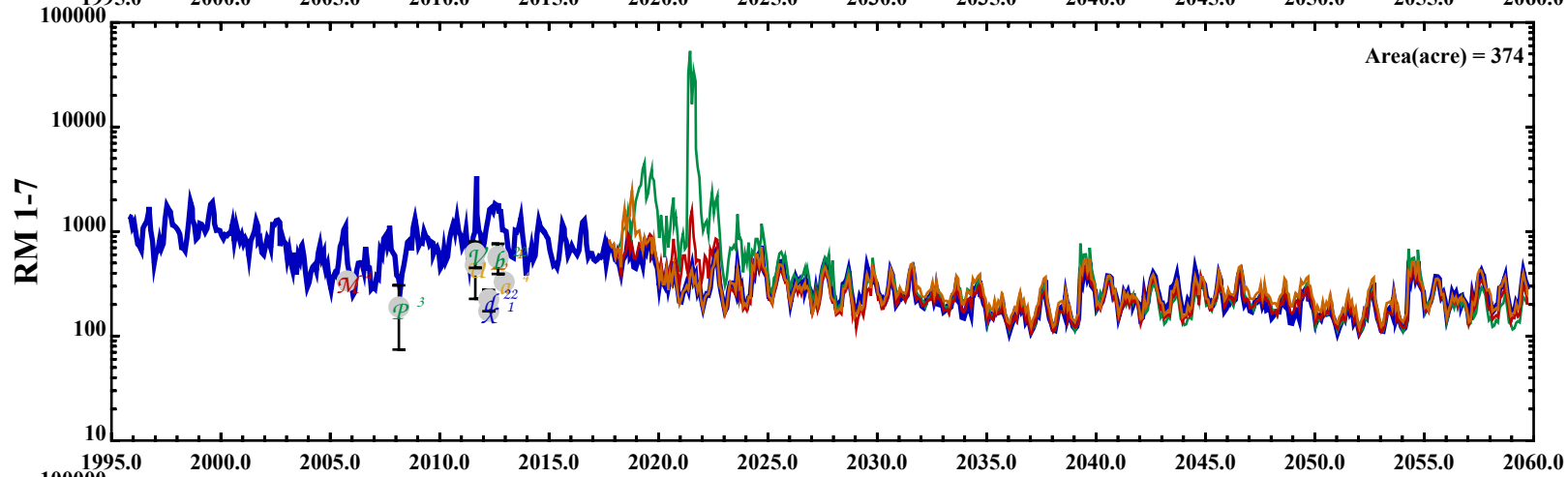
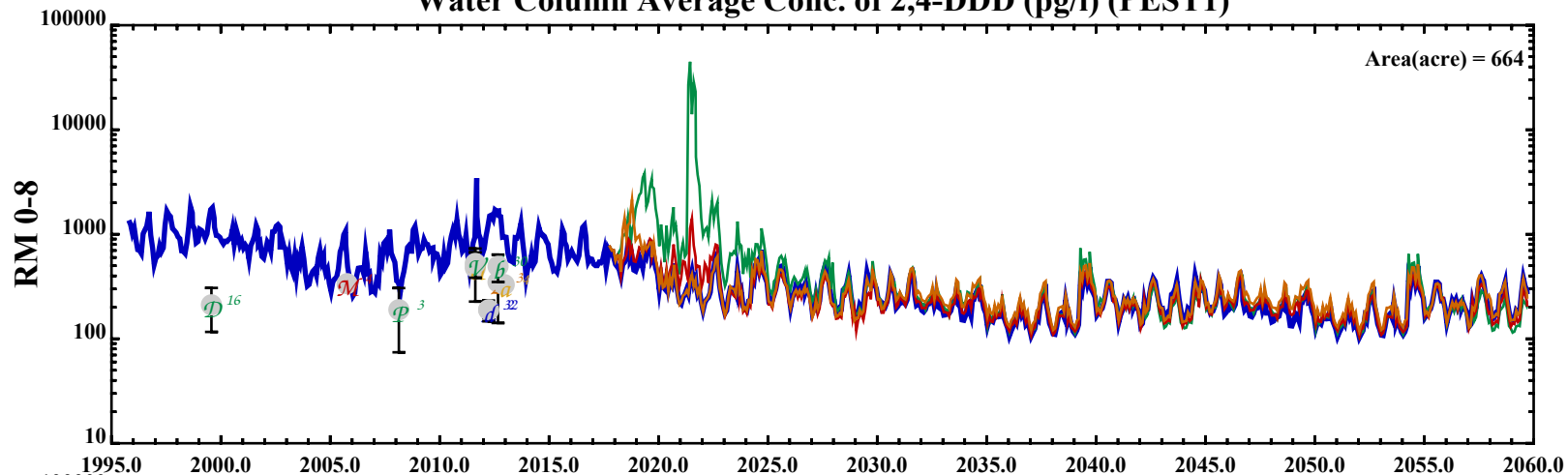
RM 8-17



Time (Years)

- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 2,4-DDD (pg/l) (PEST1)

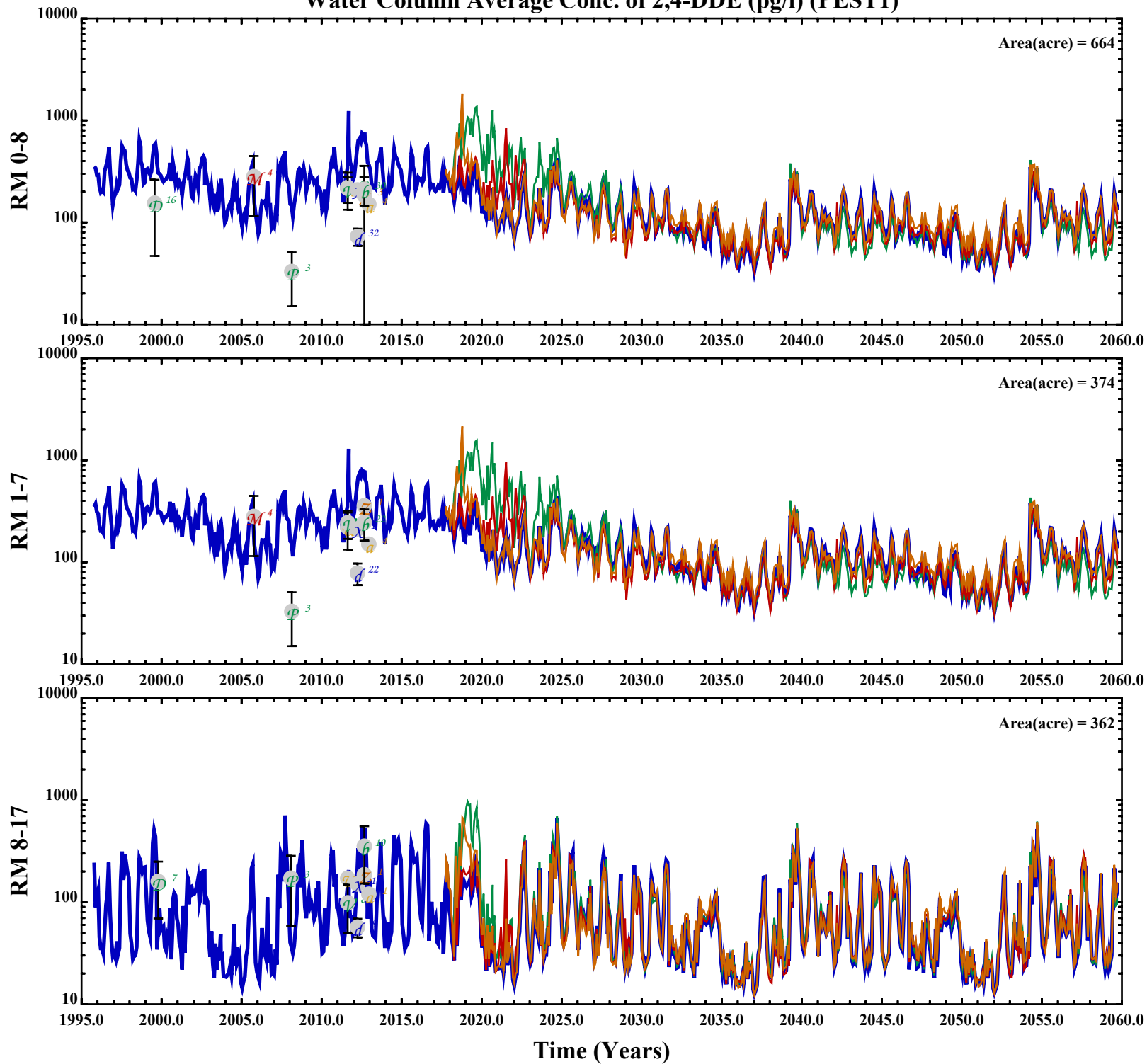


Time (Years)

- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCDBaseline Sampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

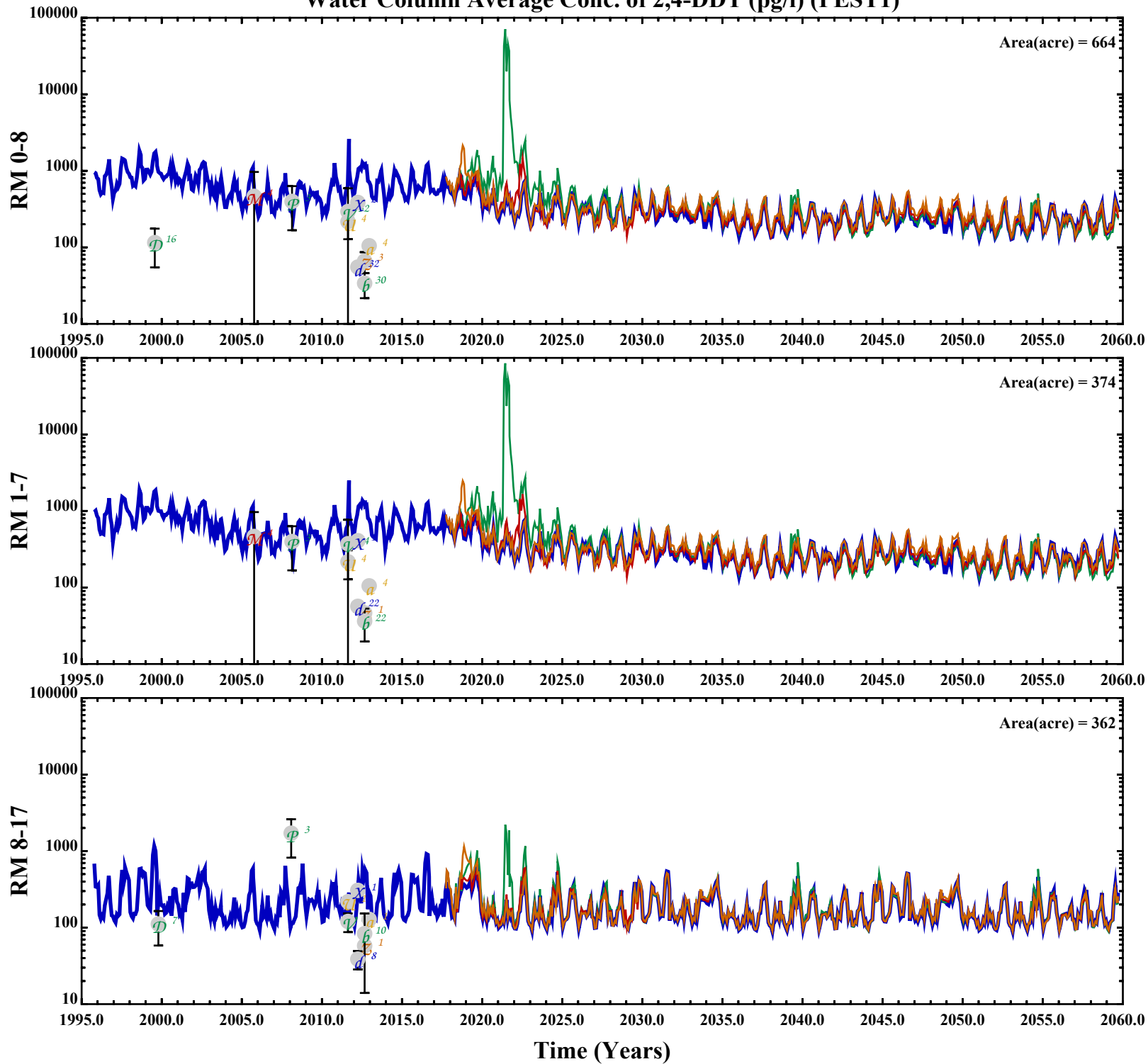
# Water Column Average Conc. of 2,4-DDE (pg/l) (PEST1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
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- O* 2005 USEPA-MPI Water Column Above RM 8.5
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- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

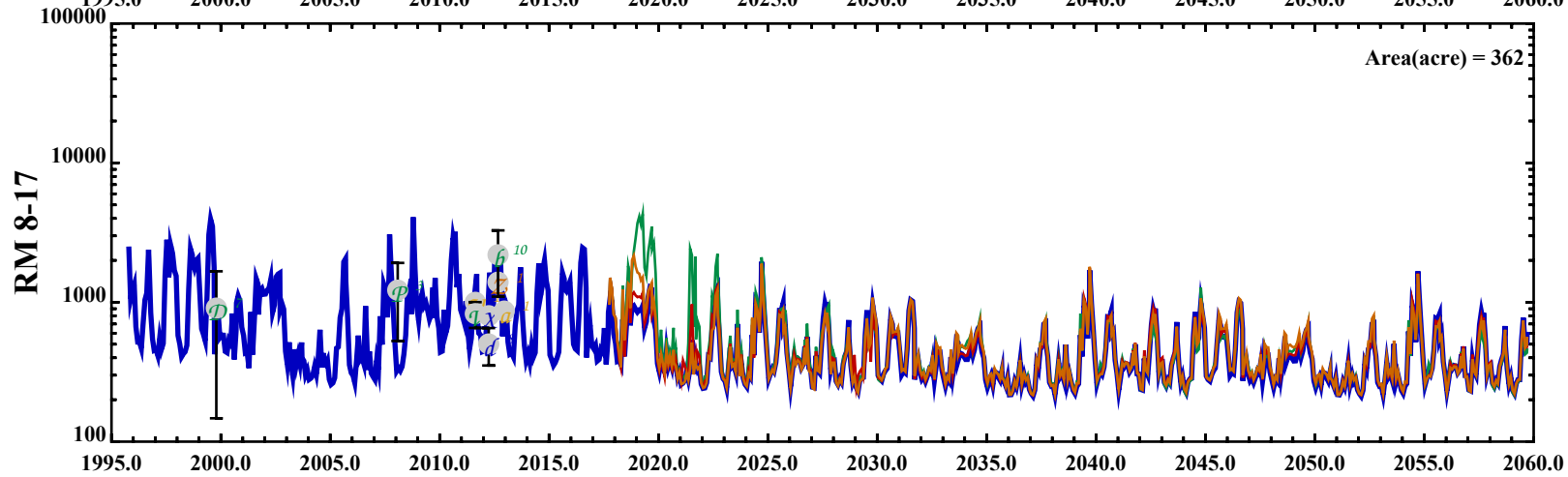
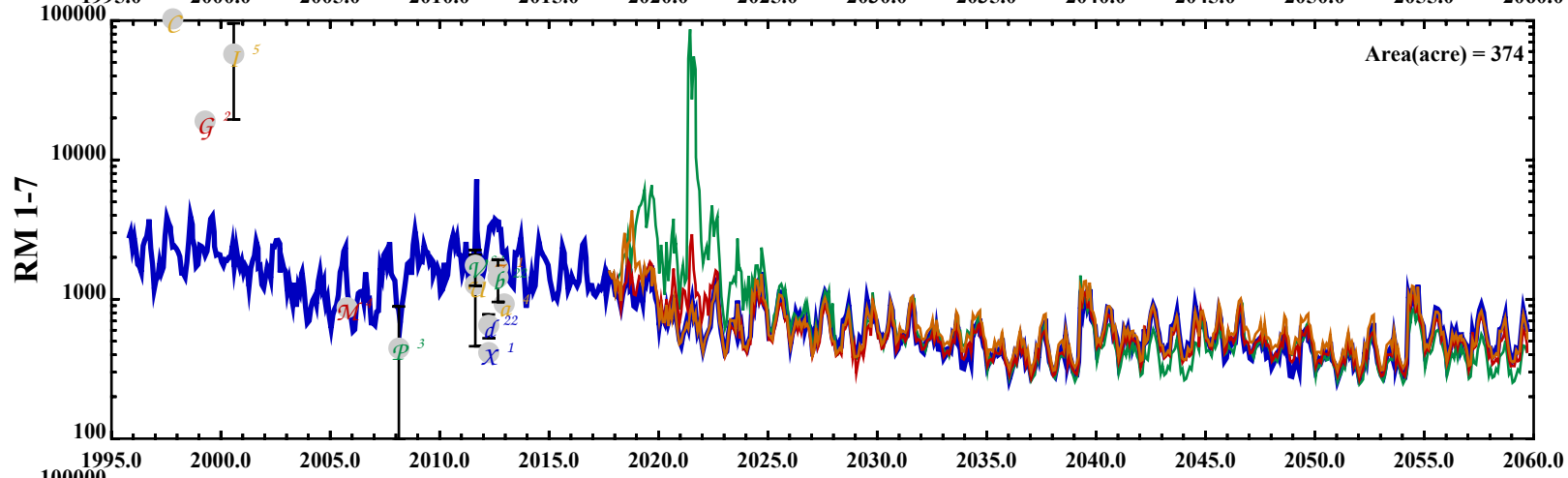
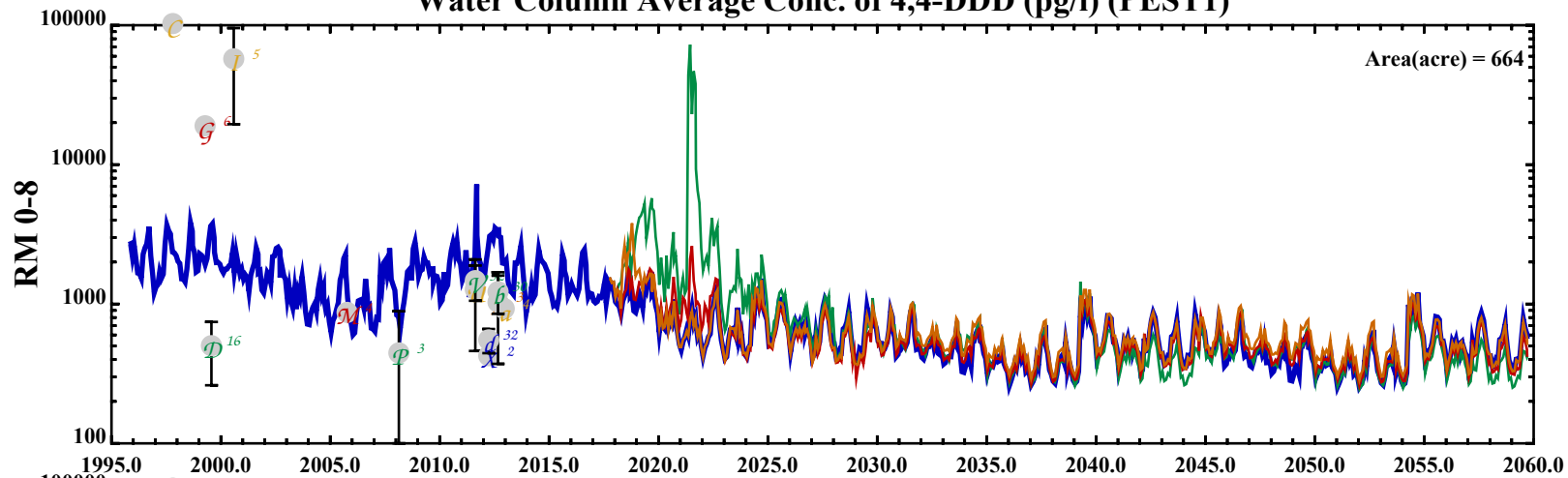
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 2,4-DDT (pg/l) (PEST1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
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  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
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  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
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  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

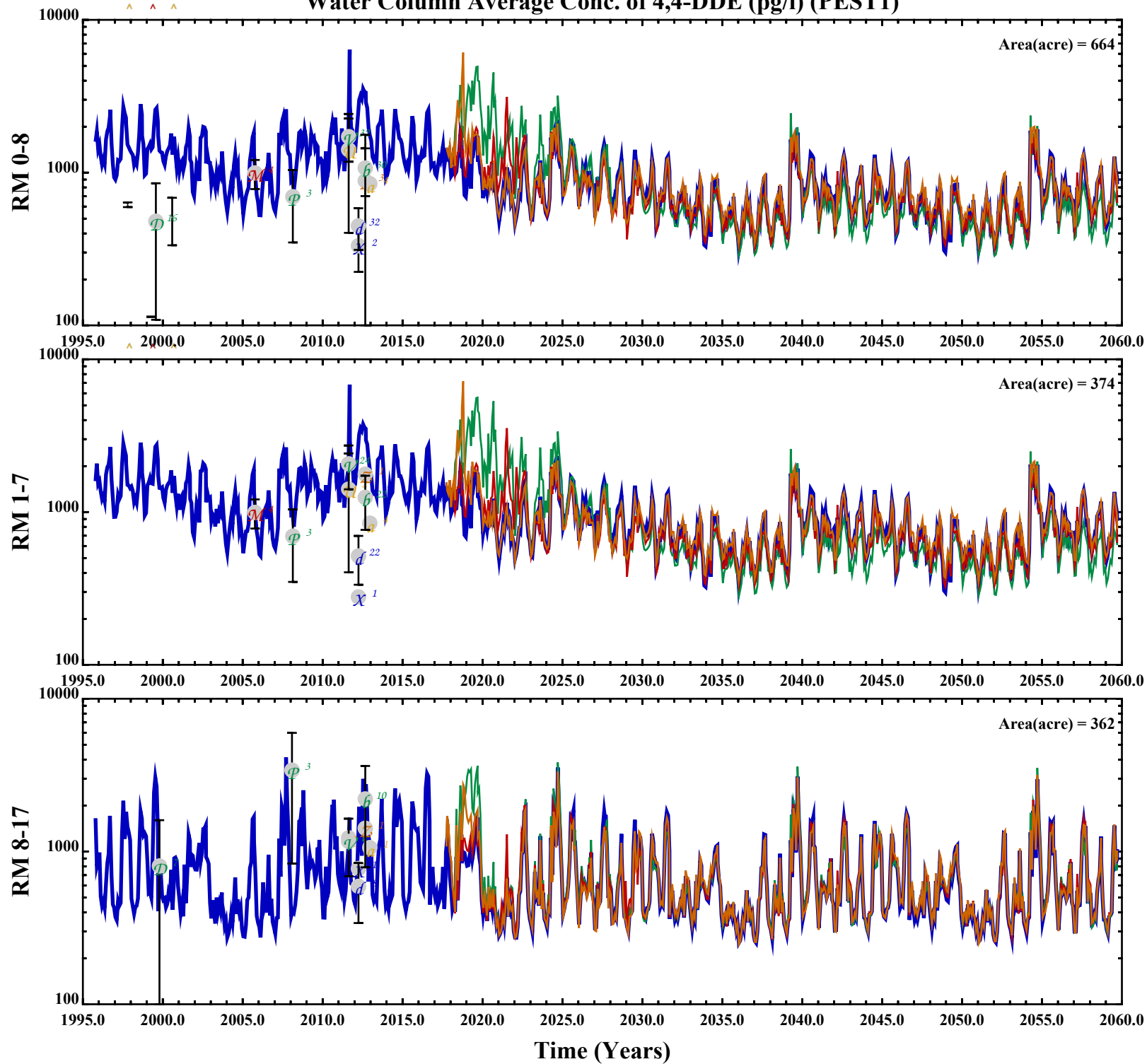
# Water Column Average Conc. of 4,4-DDD (pg/l) (PEST1)



Time (Years)

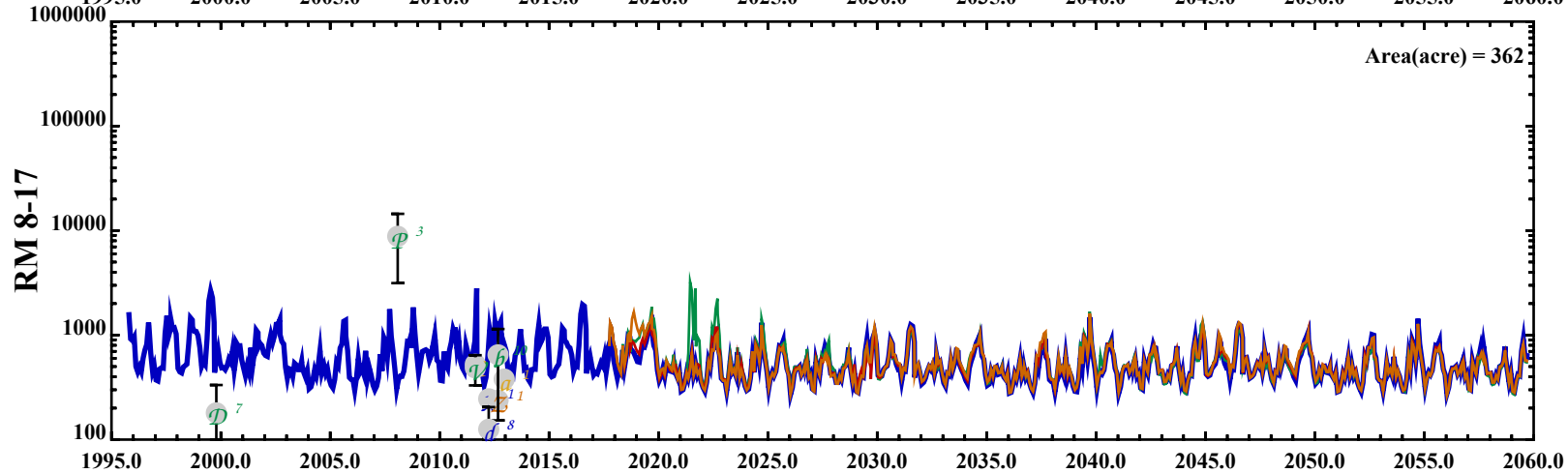
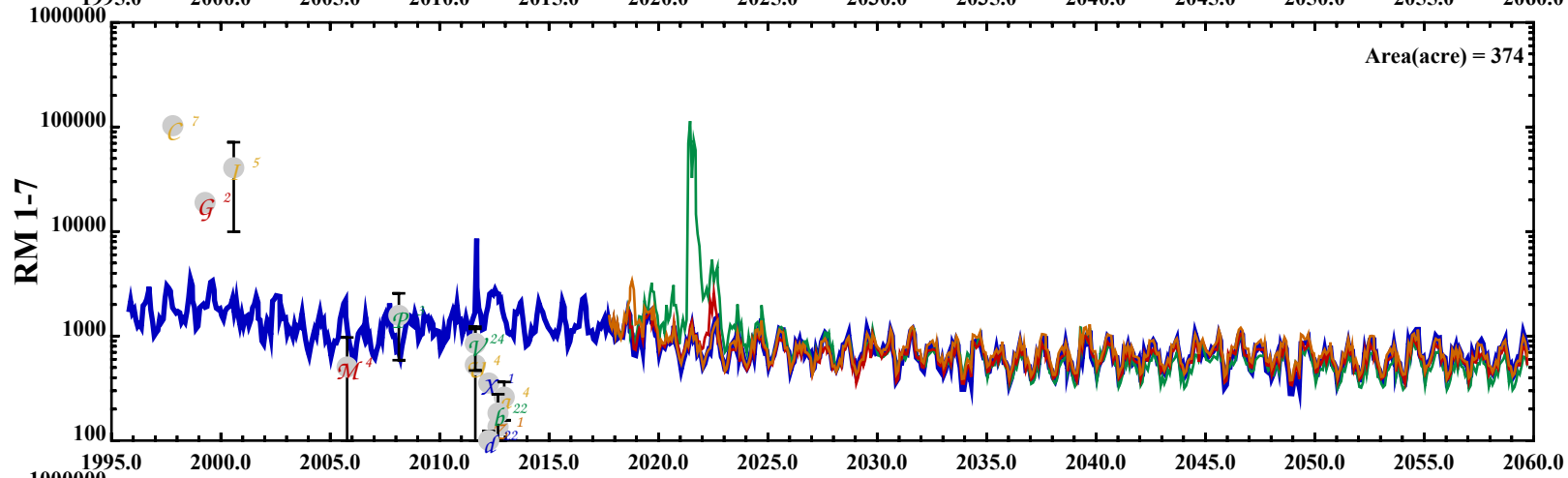
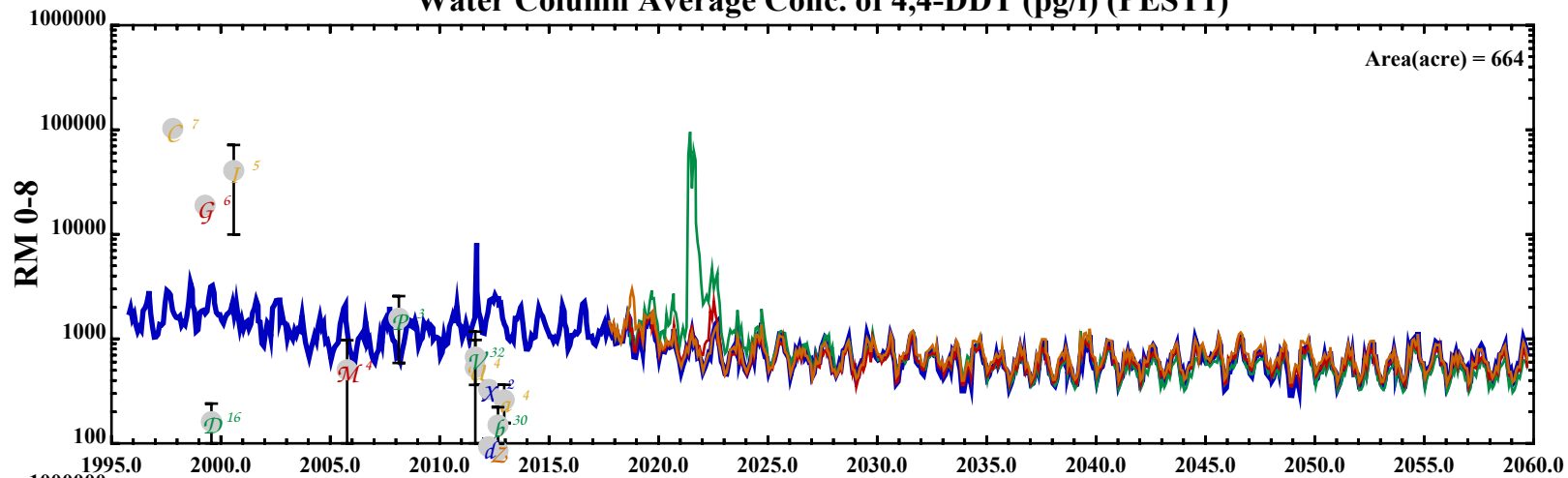
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
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  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
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  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 4,4-DDE (pg/l) (PEST1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
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  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
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  - W* 2012 CDM Smith CWCM Sampling - Round 2
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  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

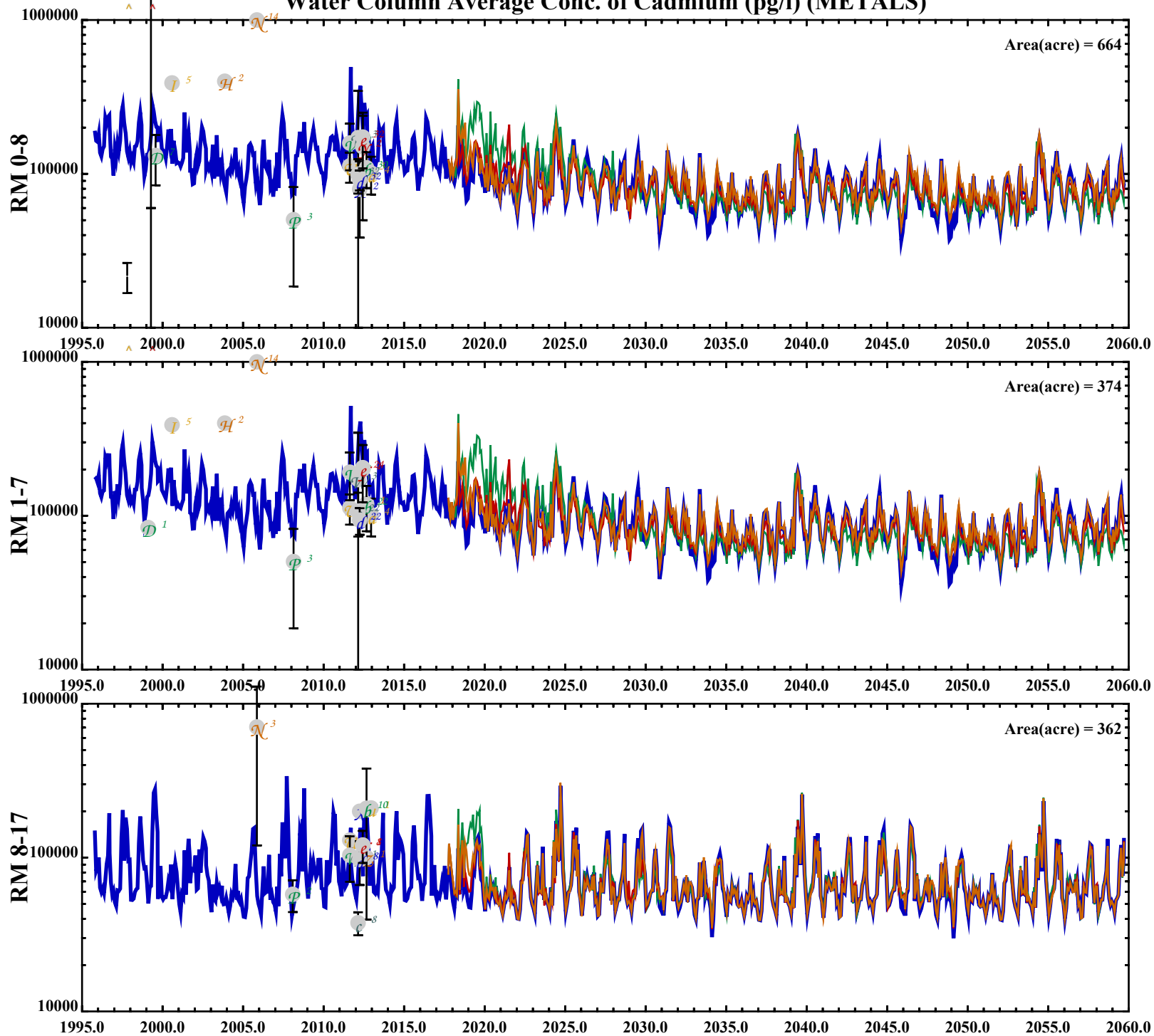
# Water Column Average Conc. of 4,4-DDT (pg/l) (PEST1)



Time (Years)

- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of Cadmium (pg/l) (METALS)

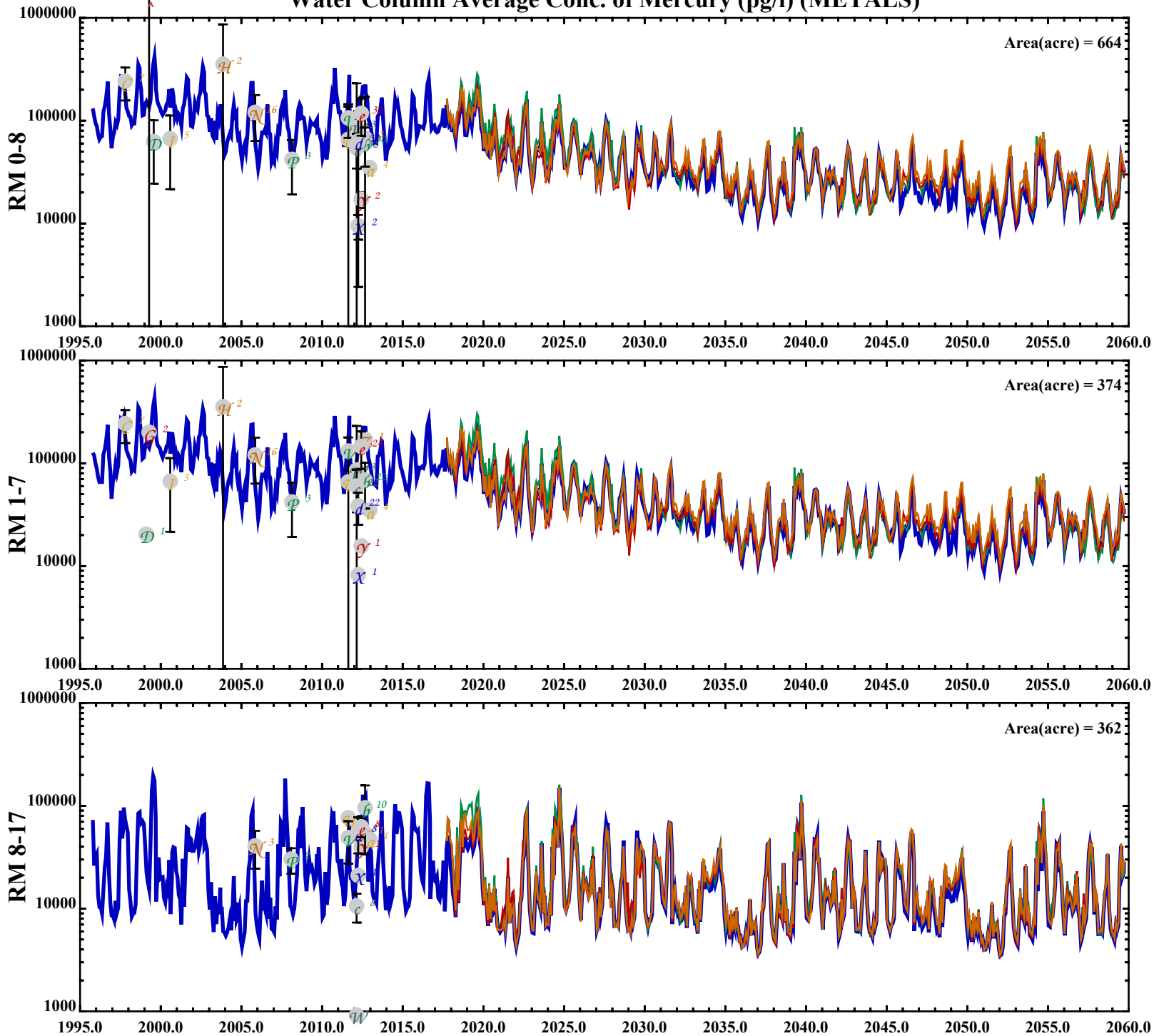


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping



# Water Column Average Conc. of Mercury (pg/l) (METALS)

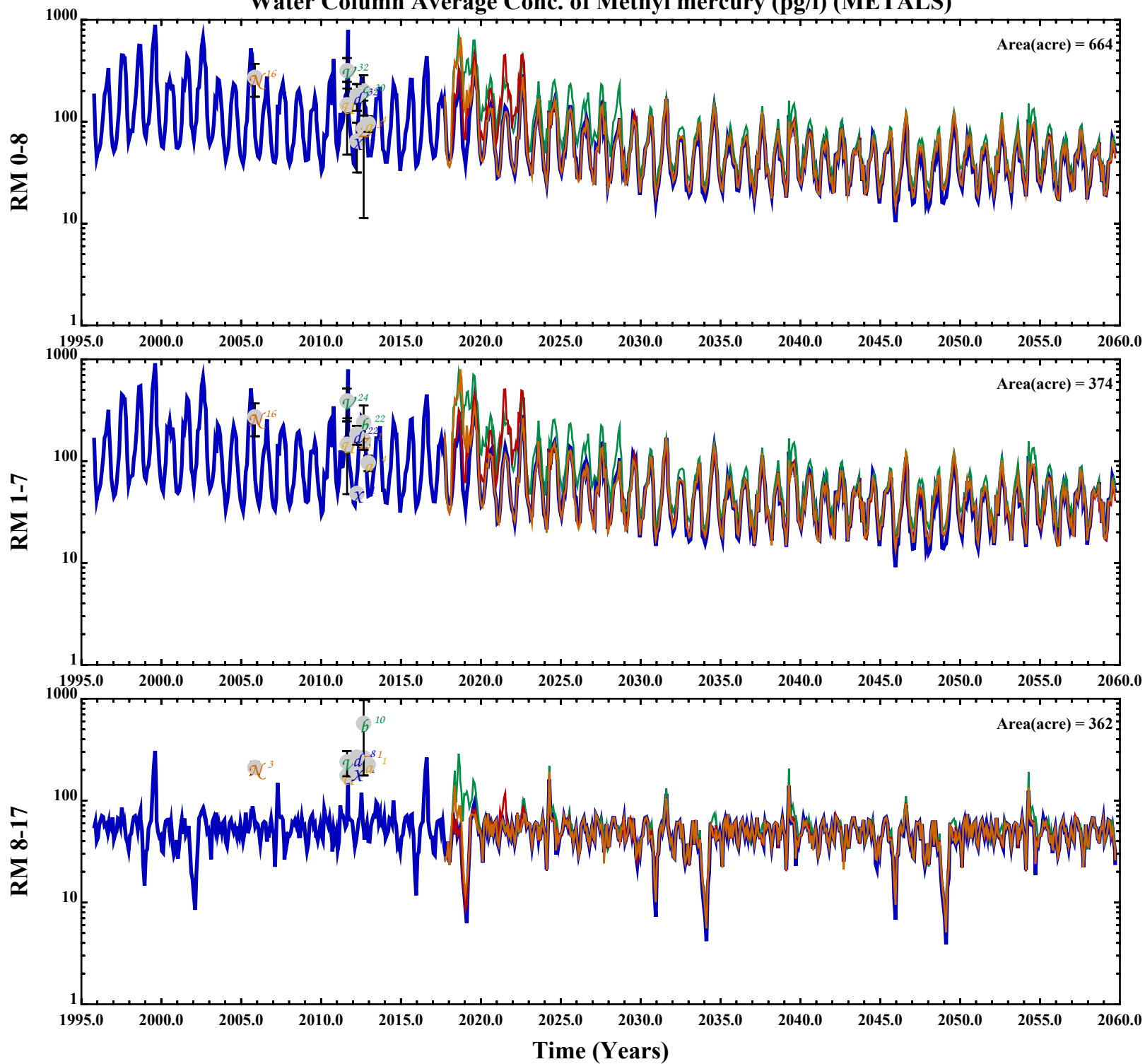


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

Time (Years)

# Water Column Average Conc. of Methyl mercury (pg/l) (METALS)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
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- K 2005 MPI SPMD Deployment
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- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

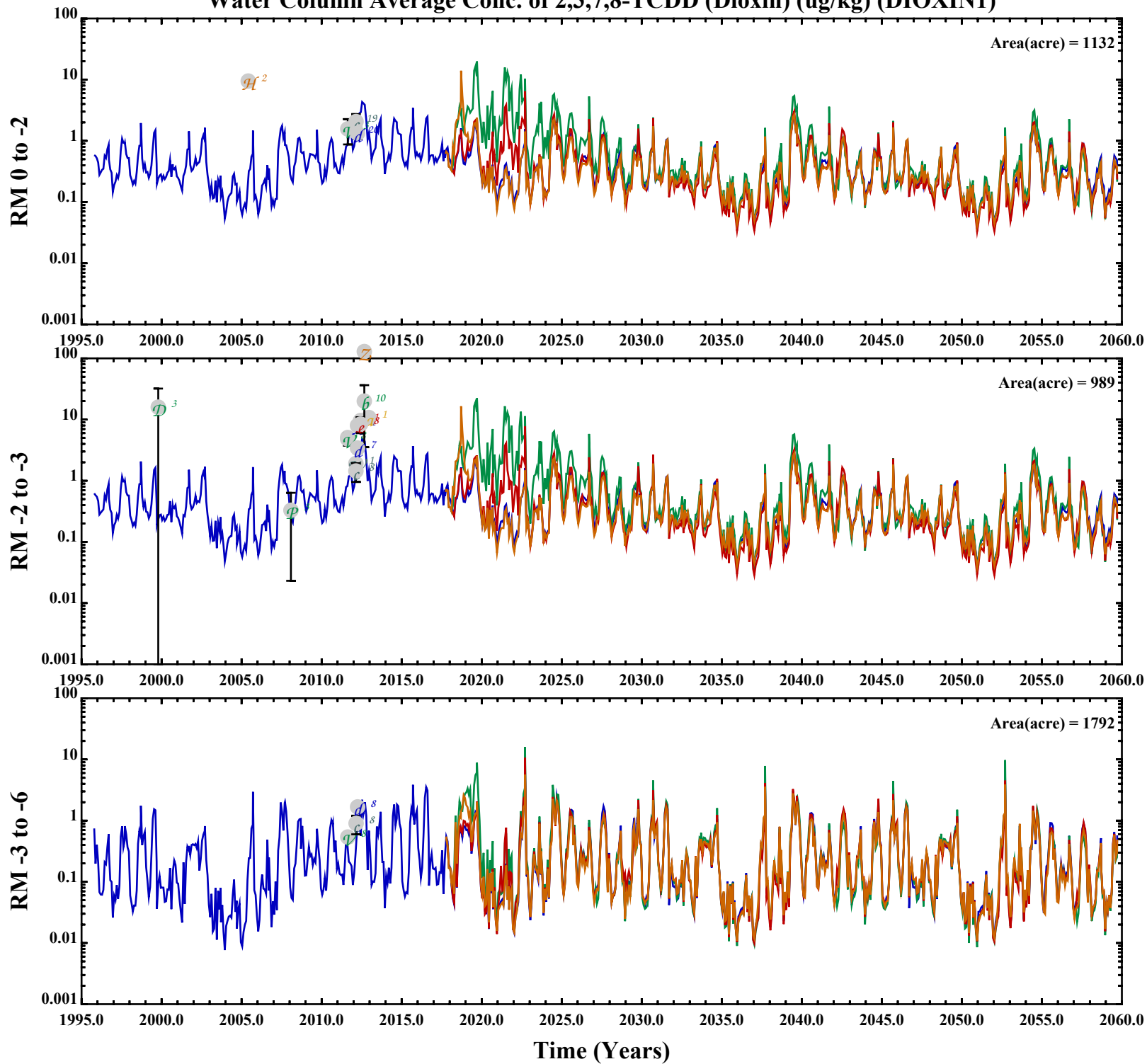
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

**Attachment E-4**

**Newark Bay Water Column Reach Average**

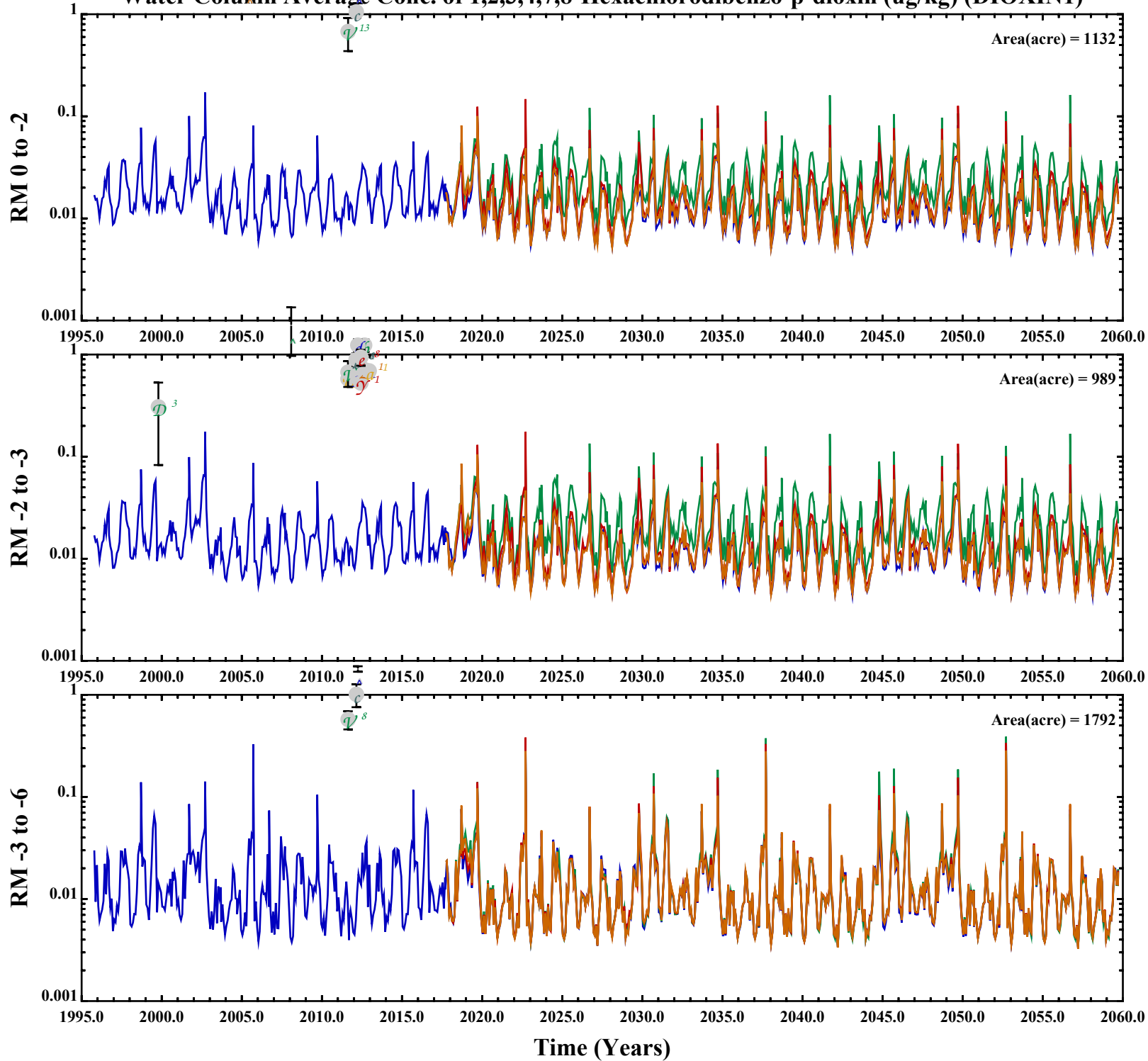
**Time Series Projections**

# Water Column Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
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  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
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  - U 2011 CDM Smith CWCM Sampling Data
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  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

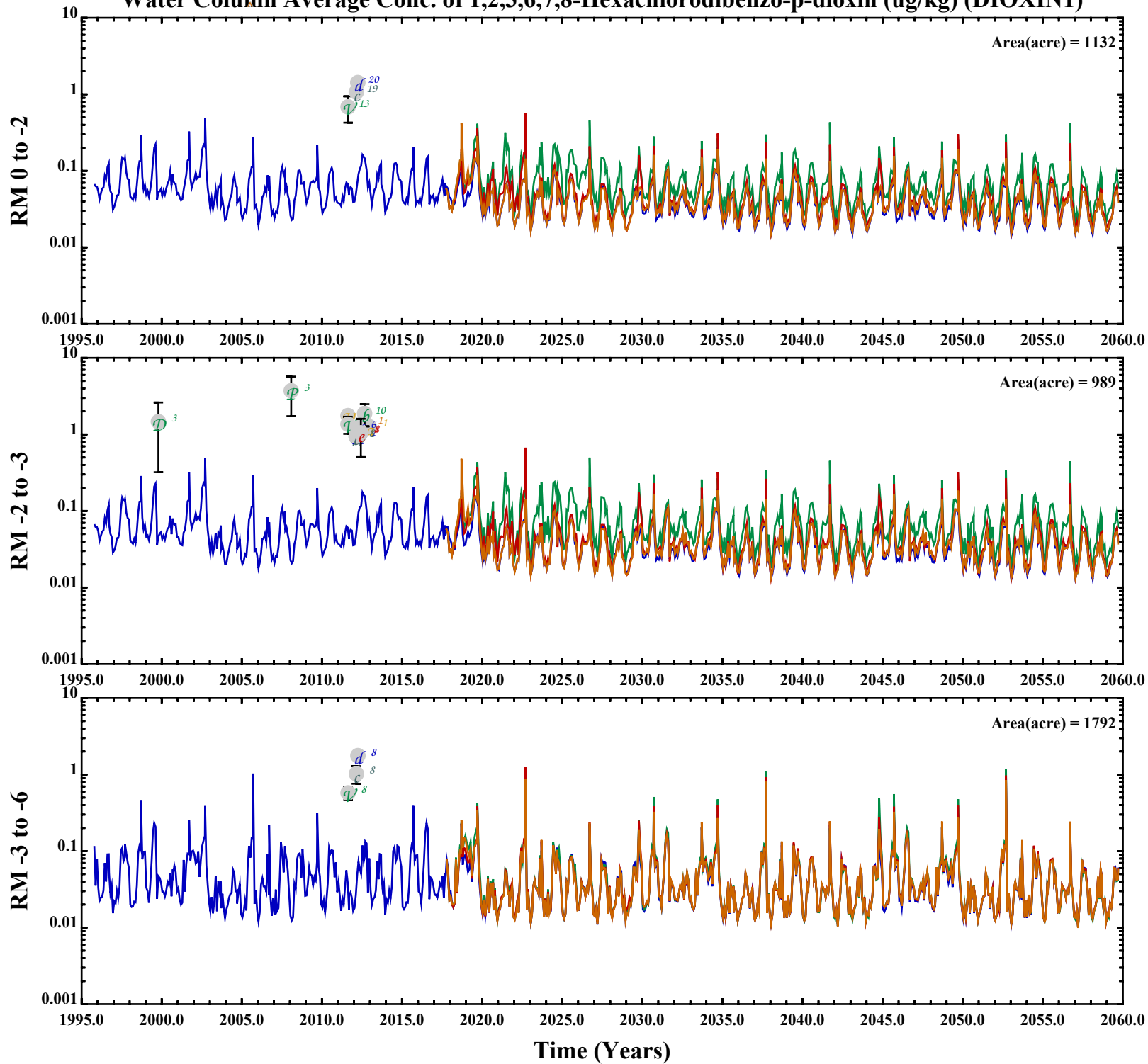
# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- G* 1999 USACE Drift Removal Monitoring
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

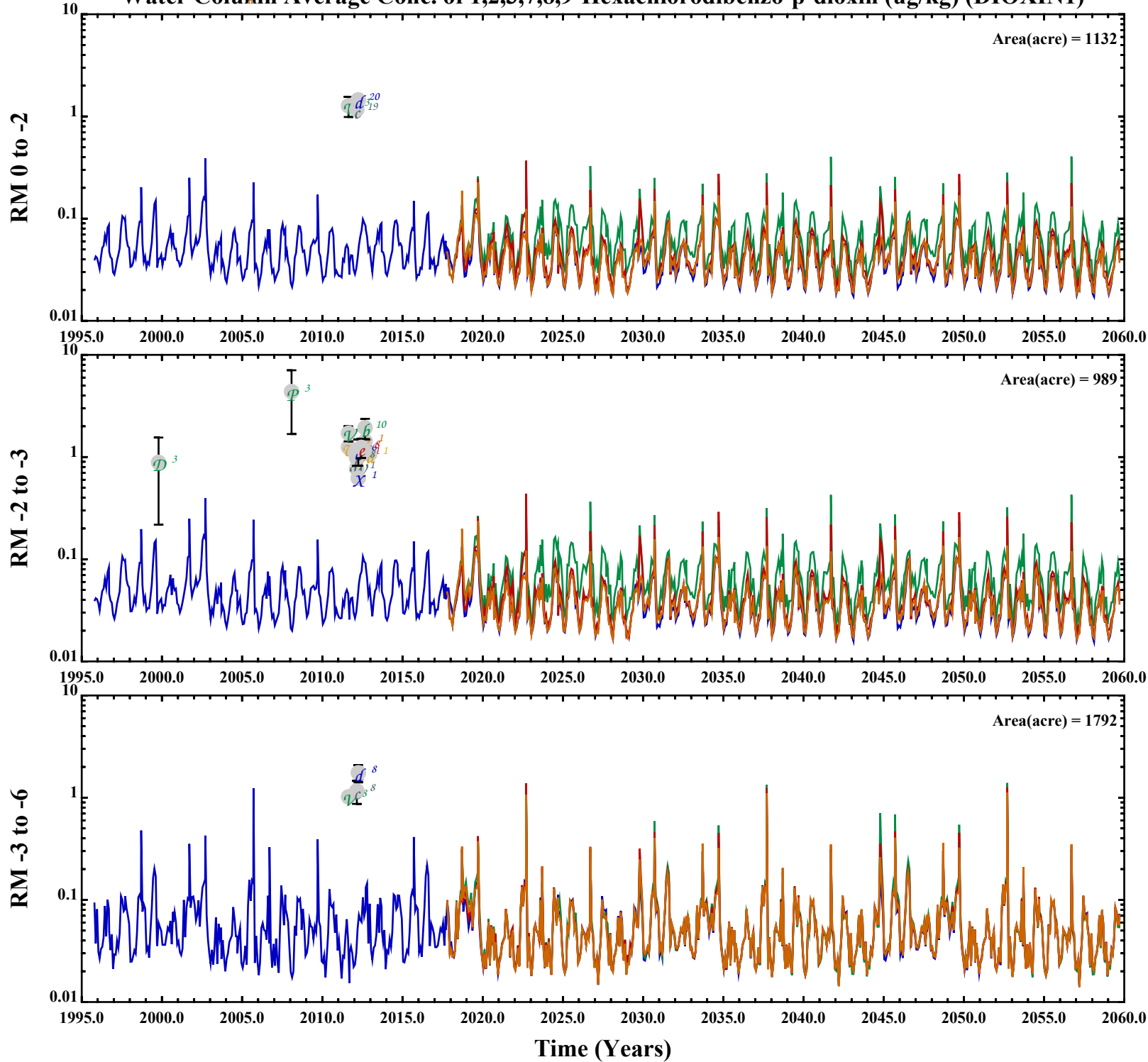
# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
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- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

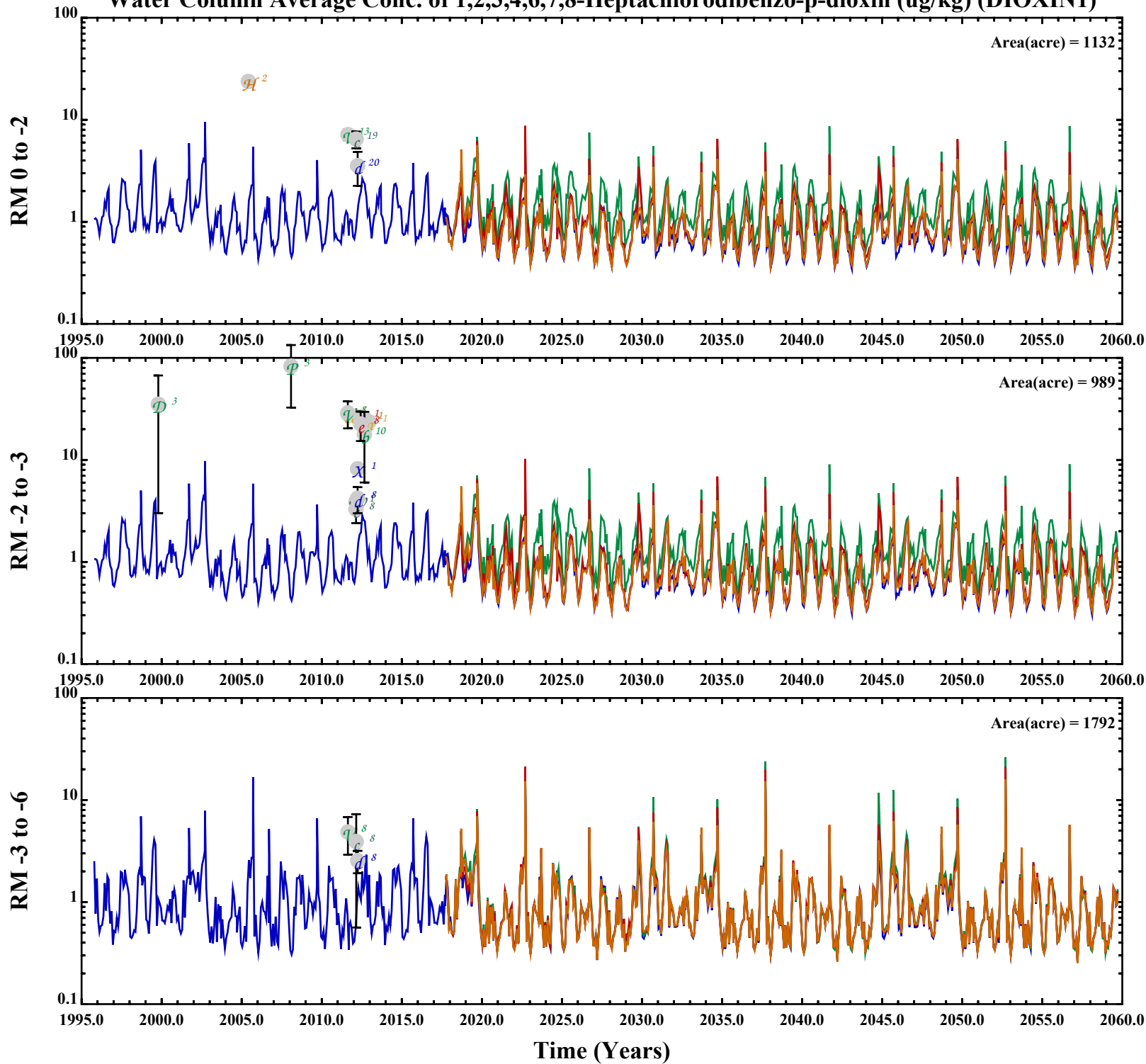
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
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  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
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  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

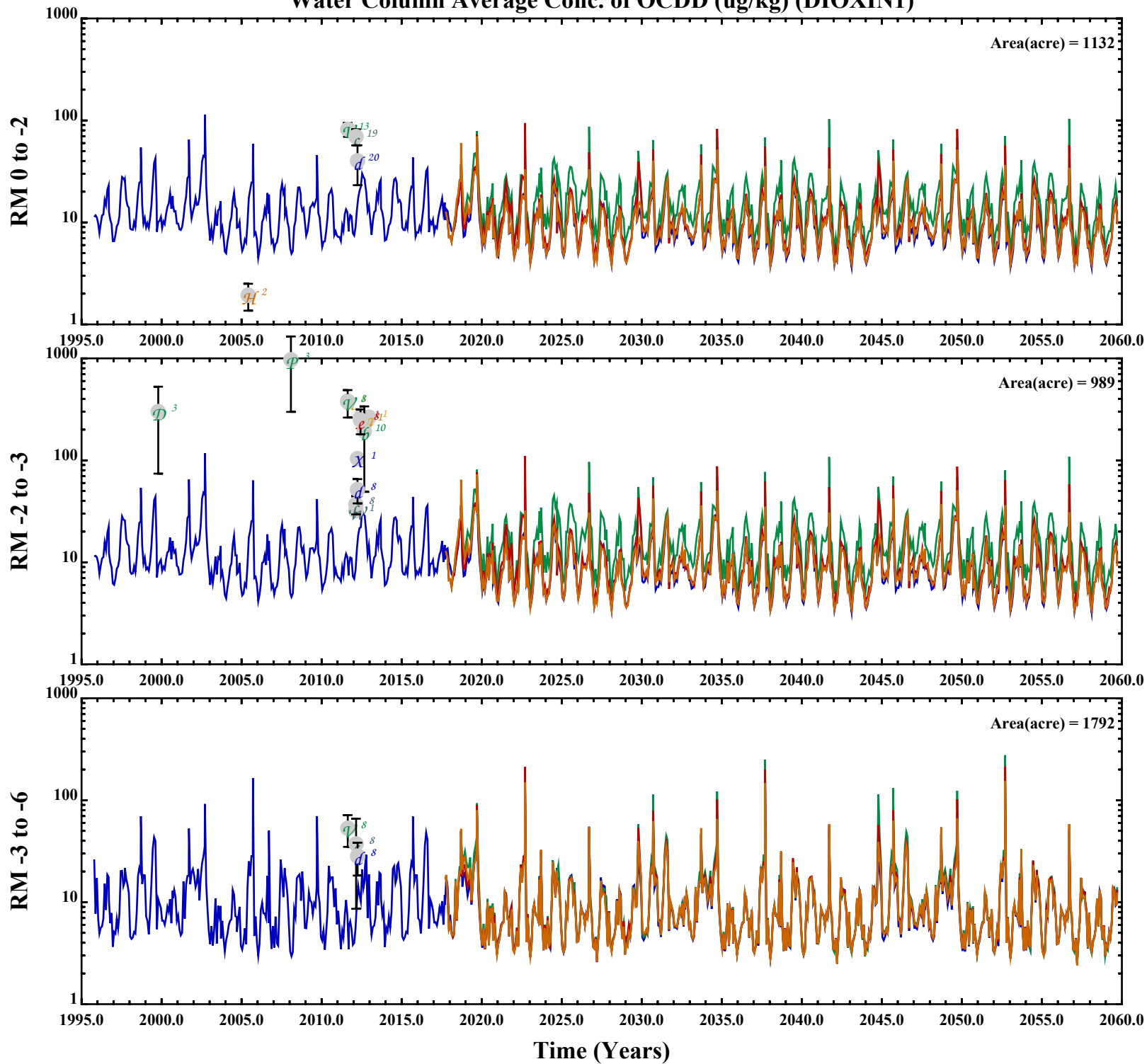


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- N 2005 USEPA-MPI Small Volume Water Column
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- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 NewarkBay ReachABCDField Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping



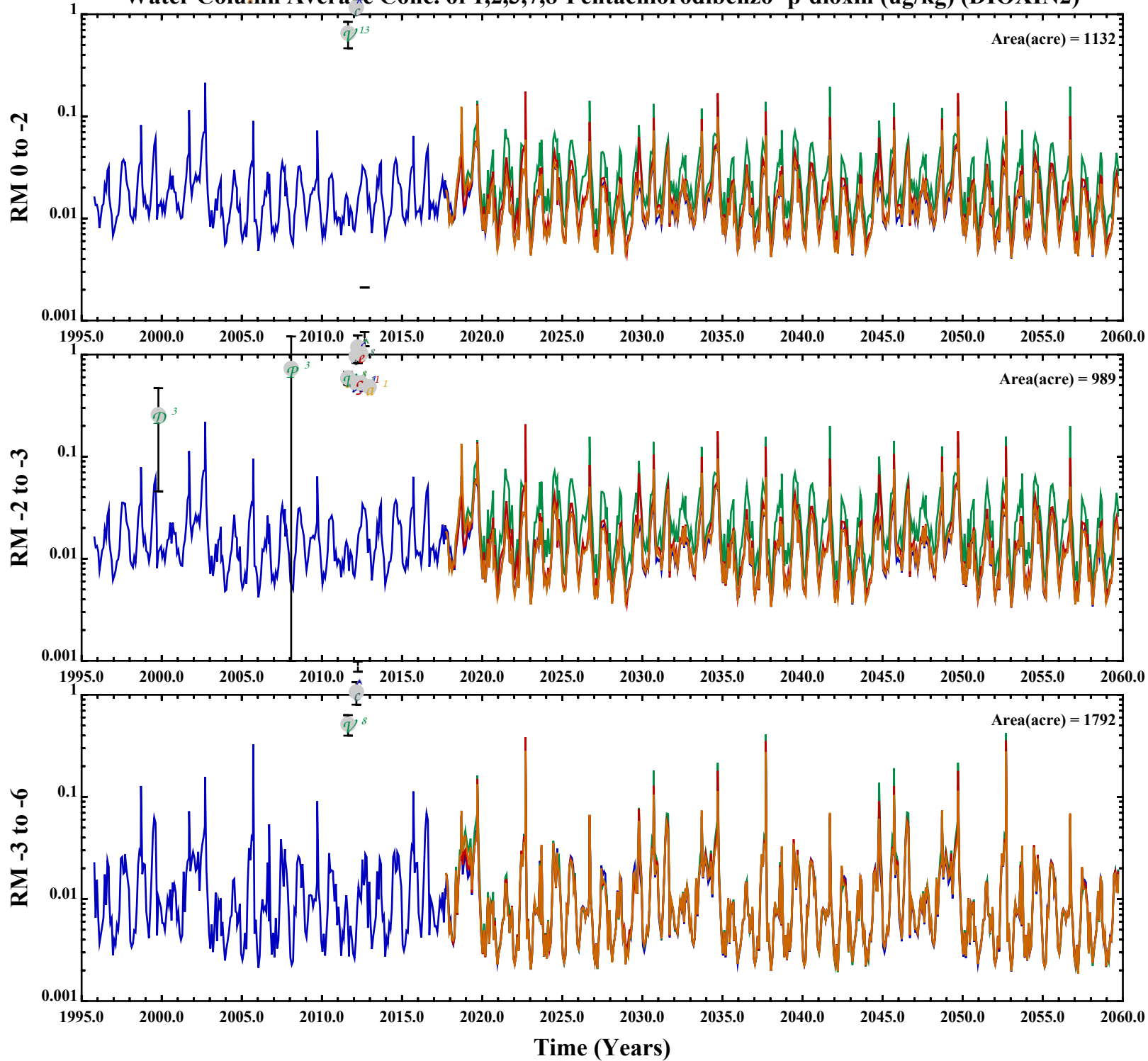
# Water Column Average Conc. of OCDD (ug/kg) (DIOXIN1)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

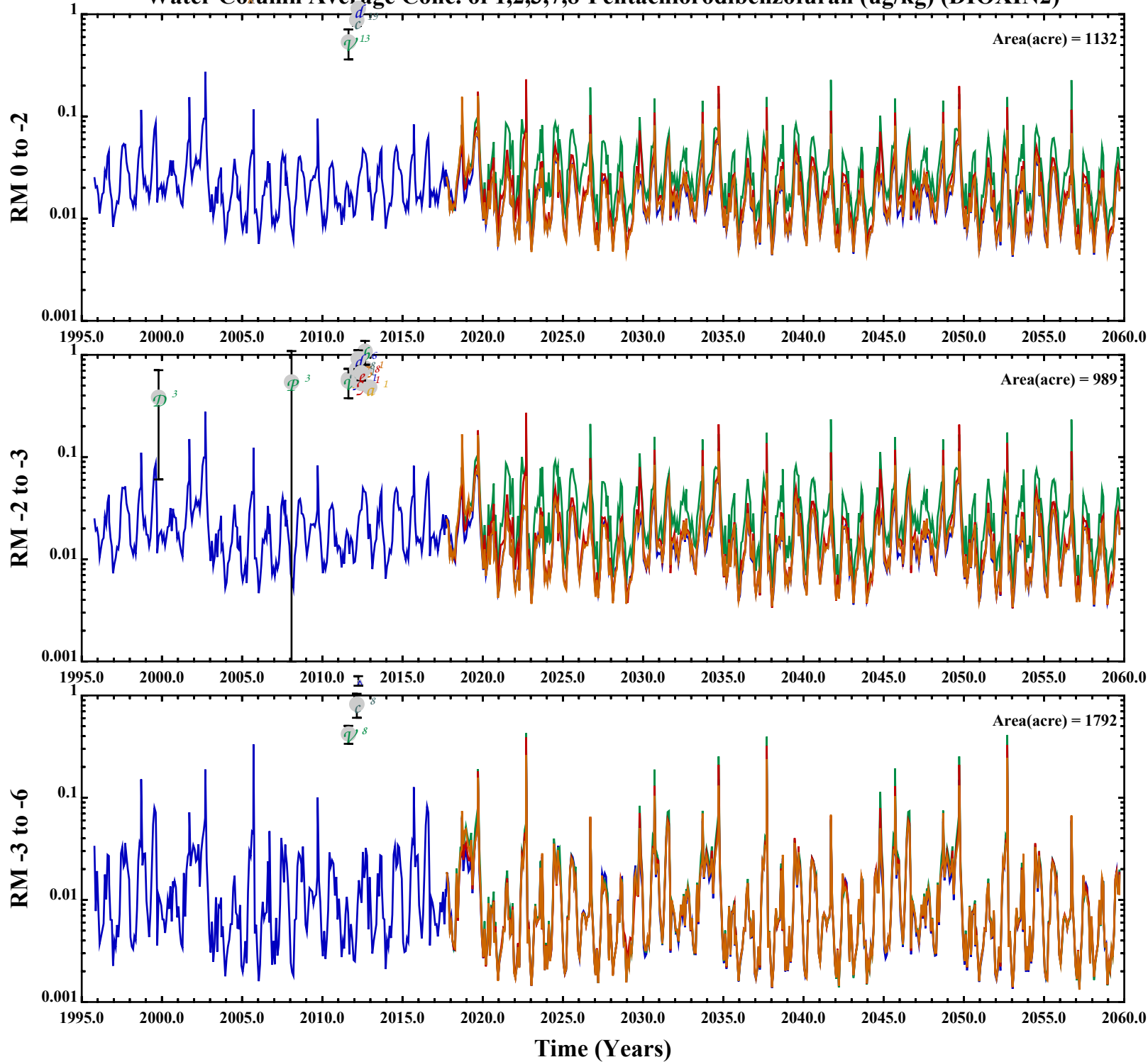
- **No Action Gradient IC, Reach Scale Up**
- **Deep Dredging**
- **Full Capping**
- **Focused Capping**

# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)



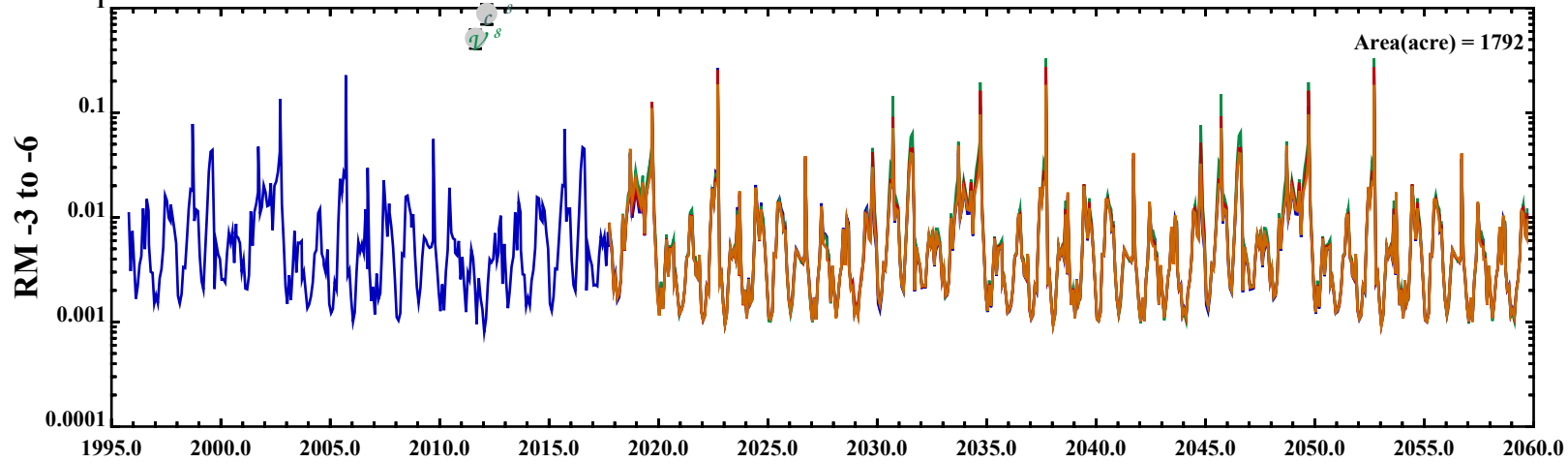
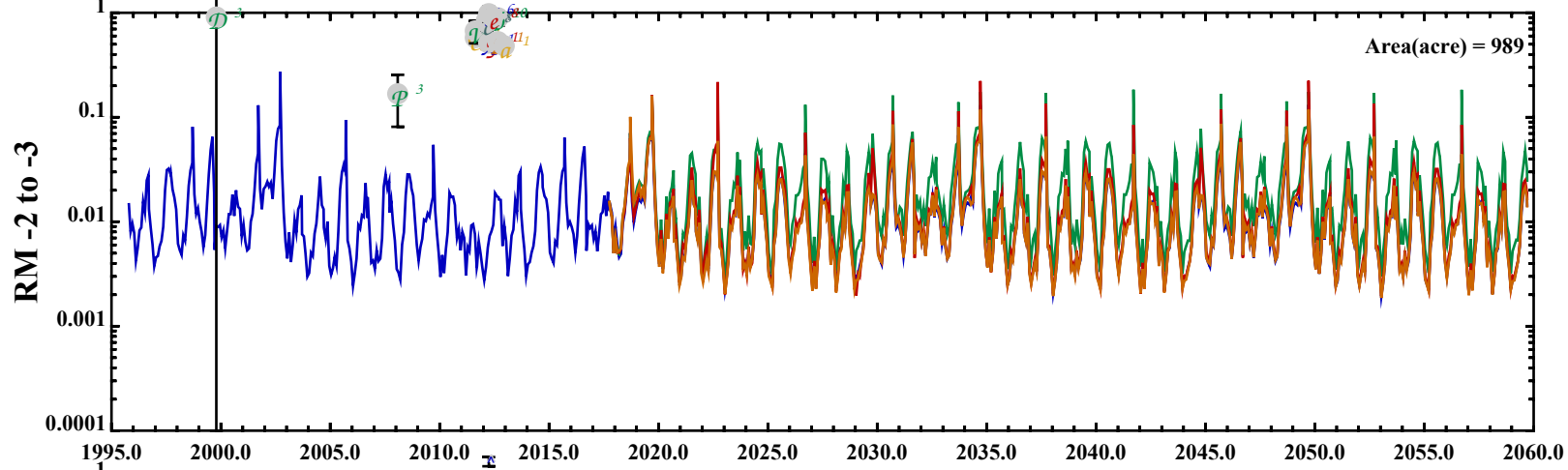
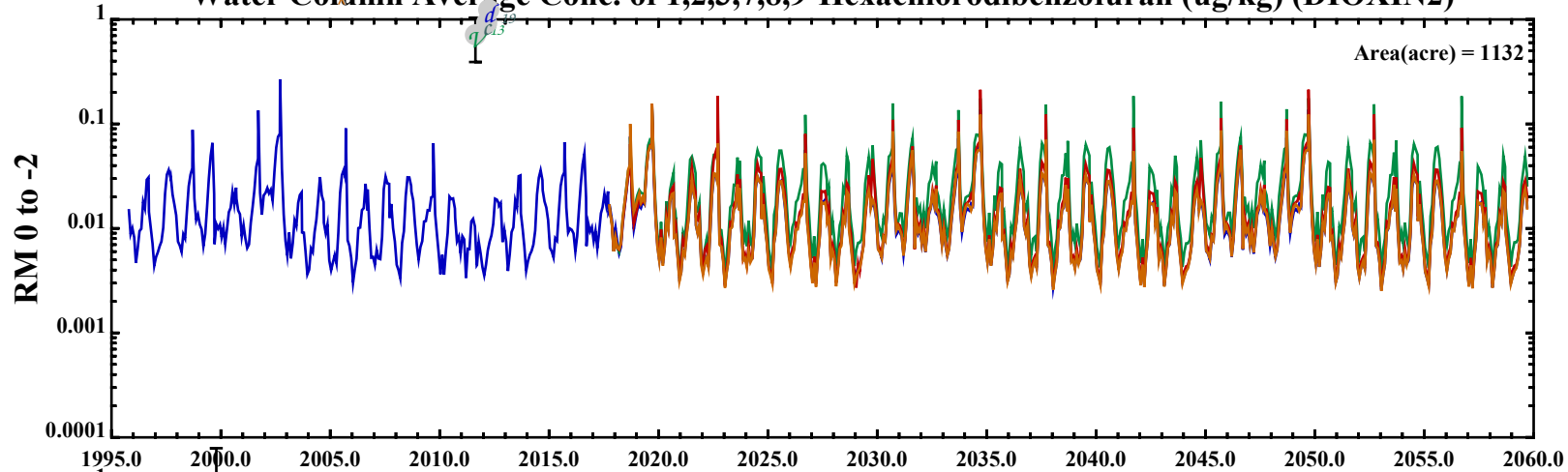
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
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  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
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  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
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  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

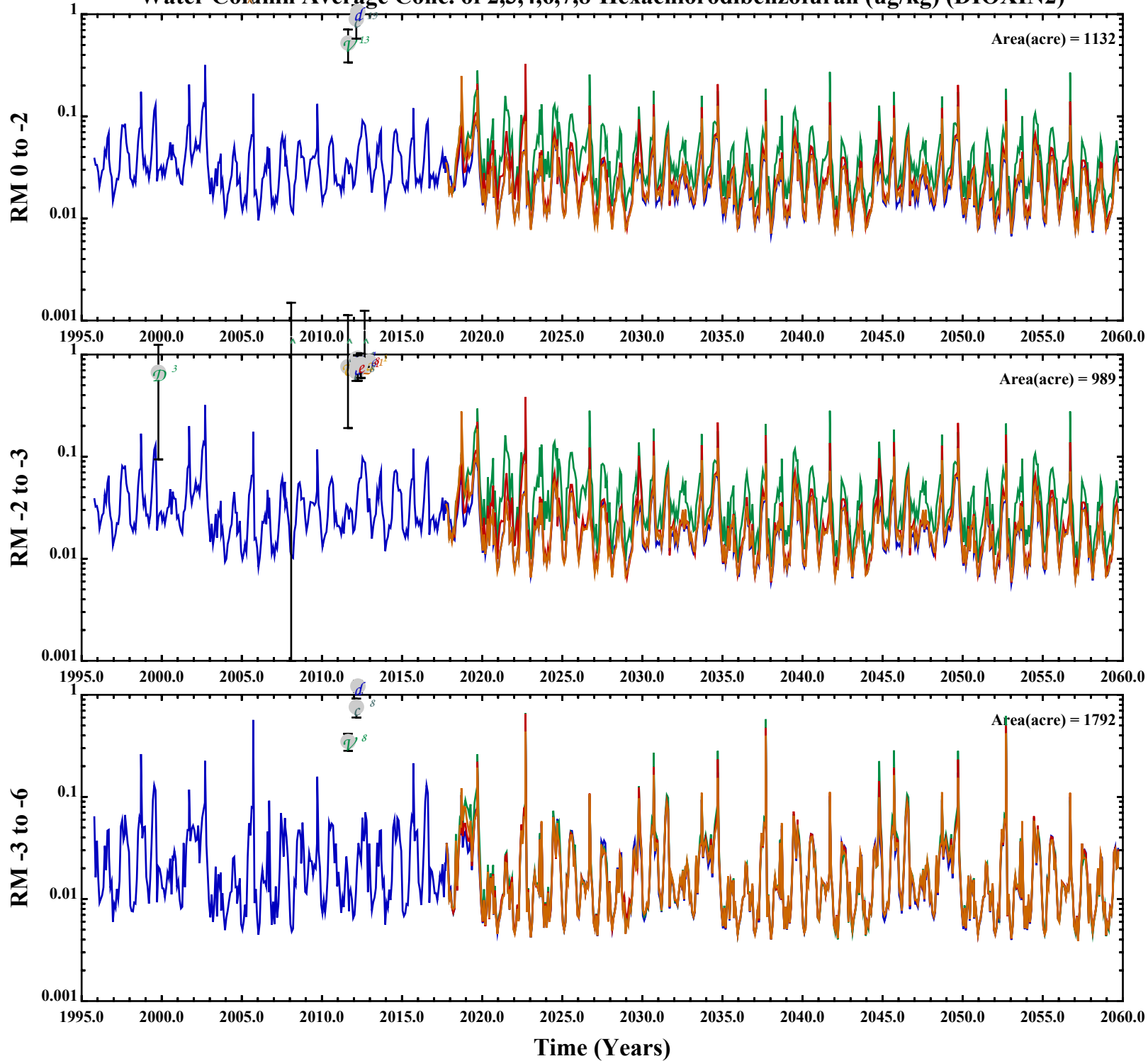


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
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- F 1999 NewarkBay ReachABCDBaselineSampling
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- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
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- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

Time (Years)

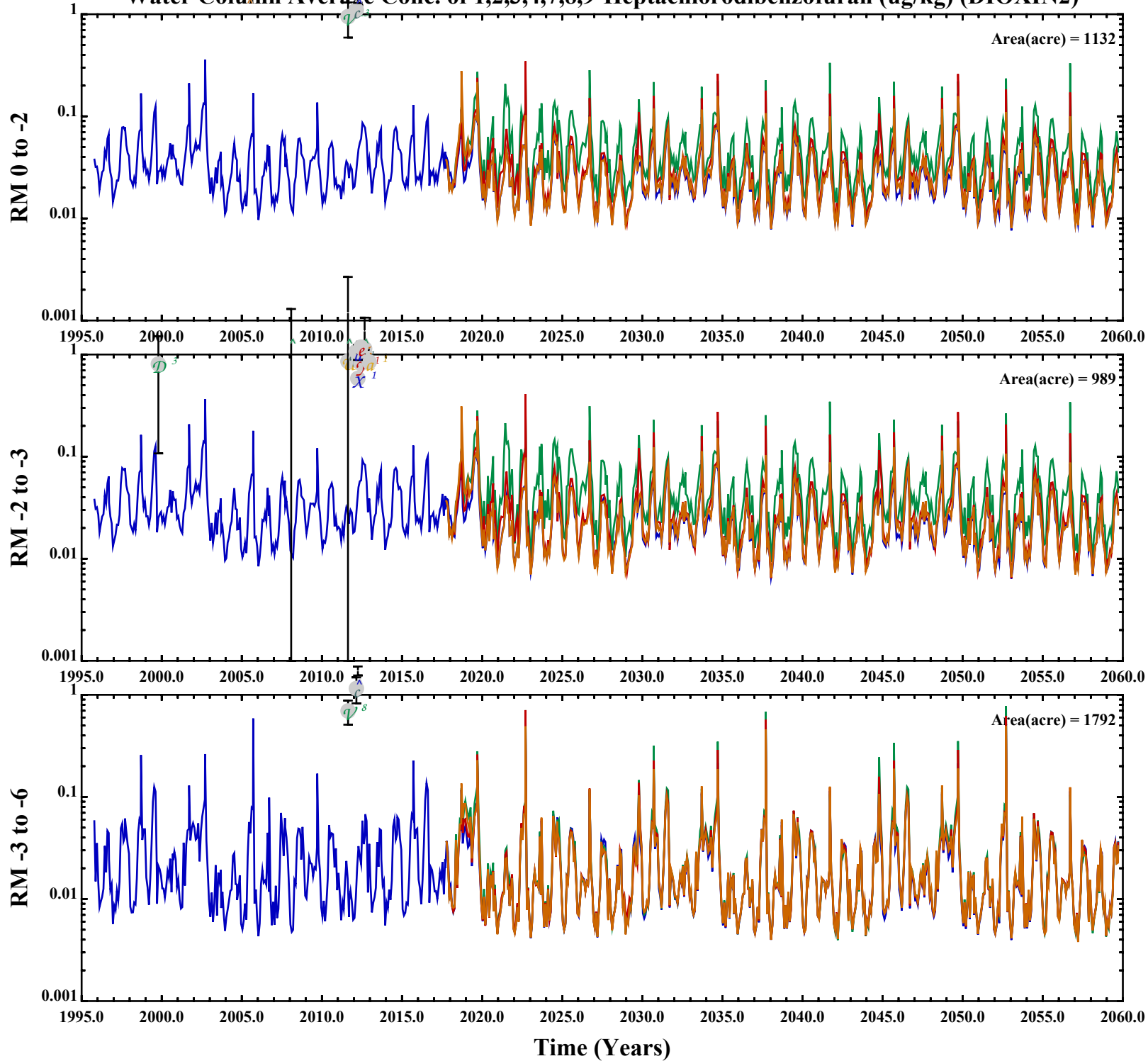
# Water Column Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
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- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

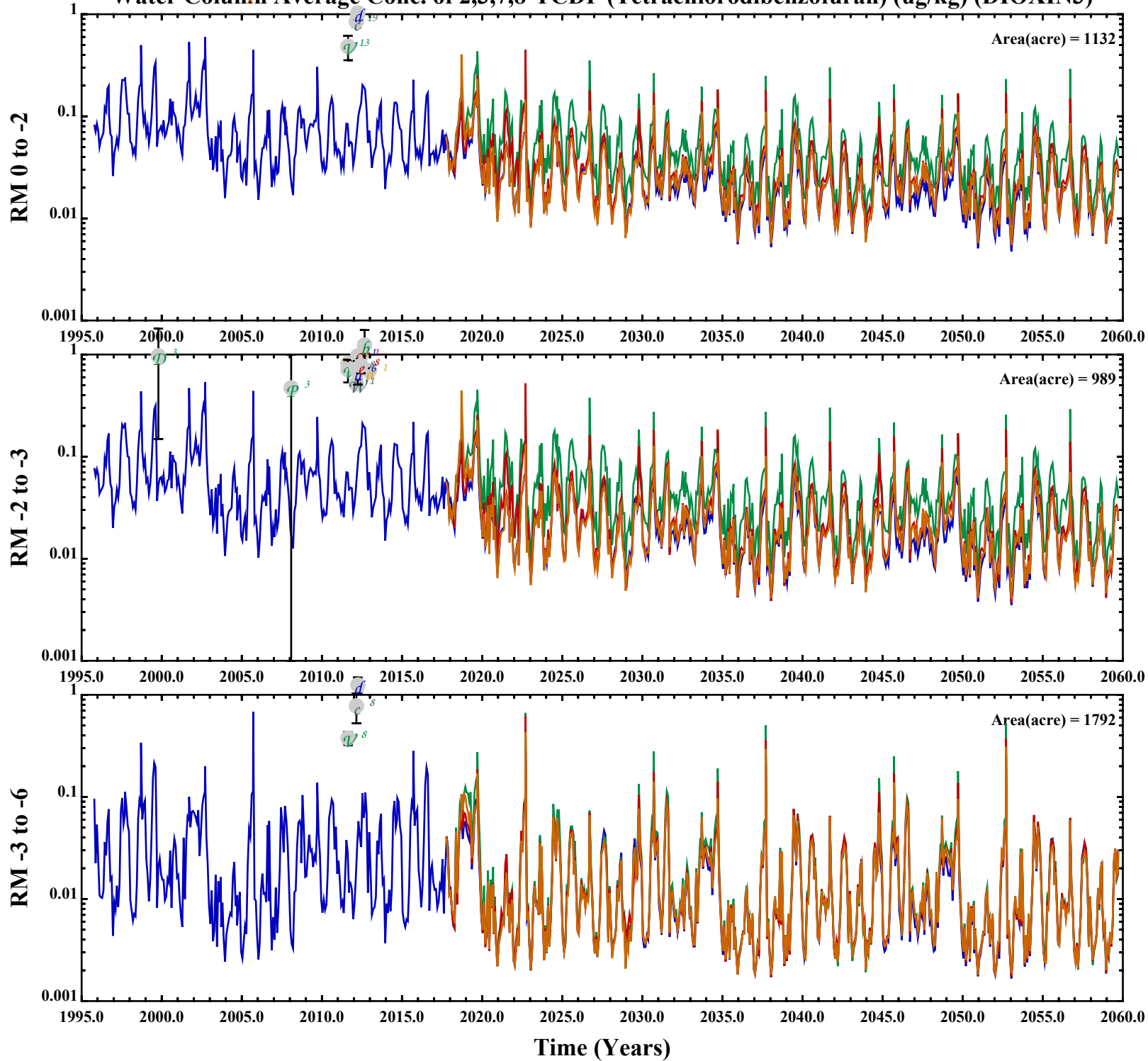
# Water Column Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
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- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

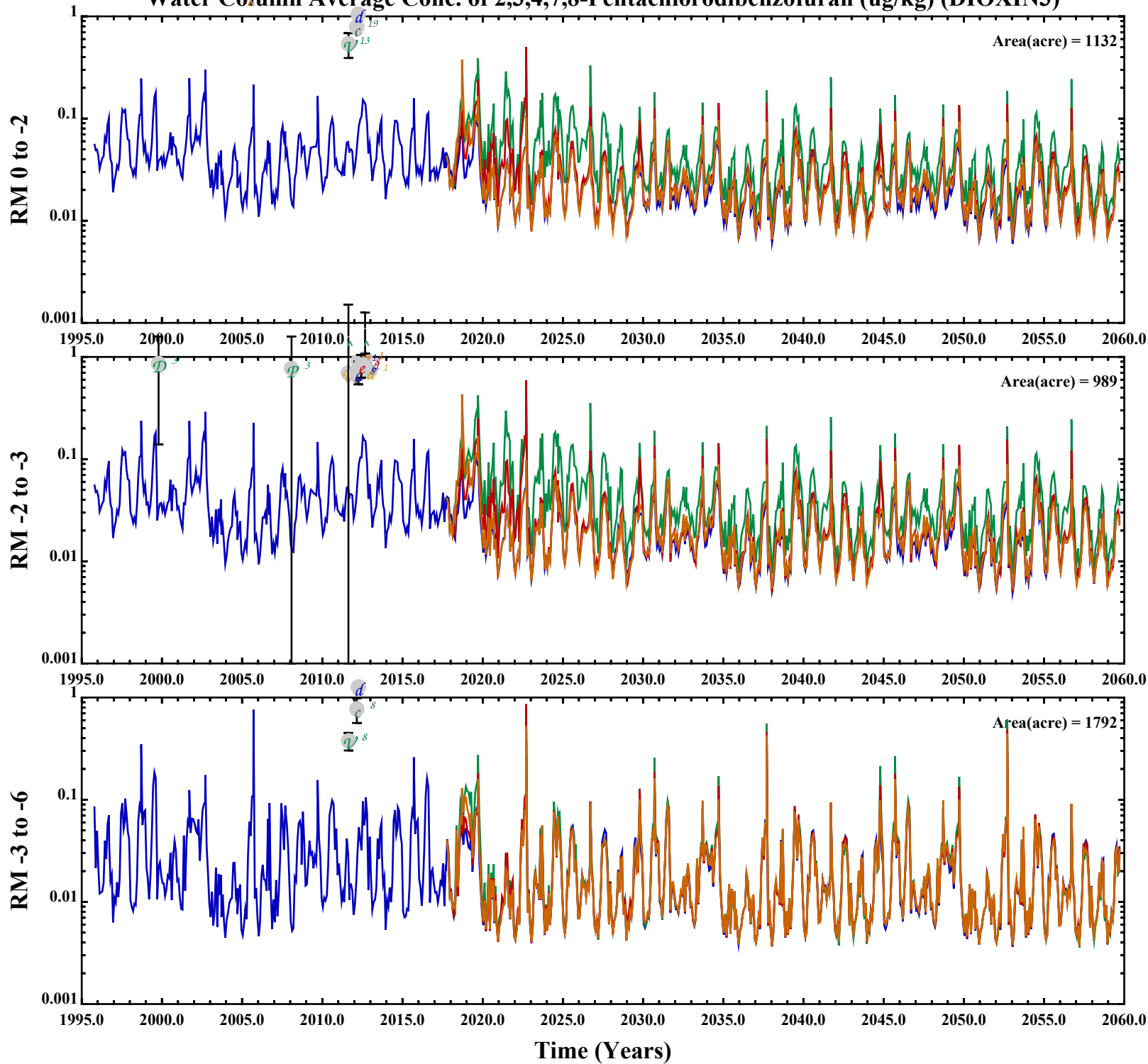
# Water Column Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 Newark Bay Reach ABCD Baseline Sampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
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- L* 2005 USEPA-MPI High Flow Water Column
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- **No Action Gradient IC, Reach Scale Up**
- **Deep Dredging**
- **Full Capping**
- **Focused Capping**

# Water Column Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

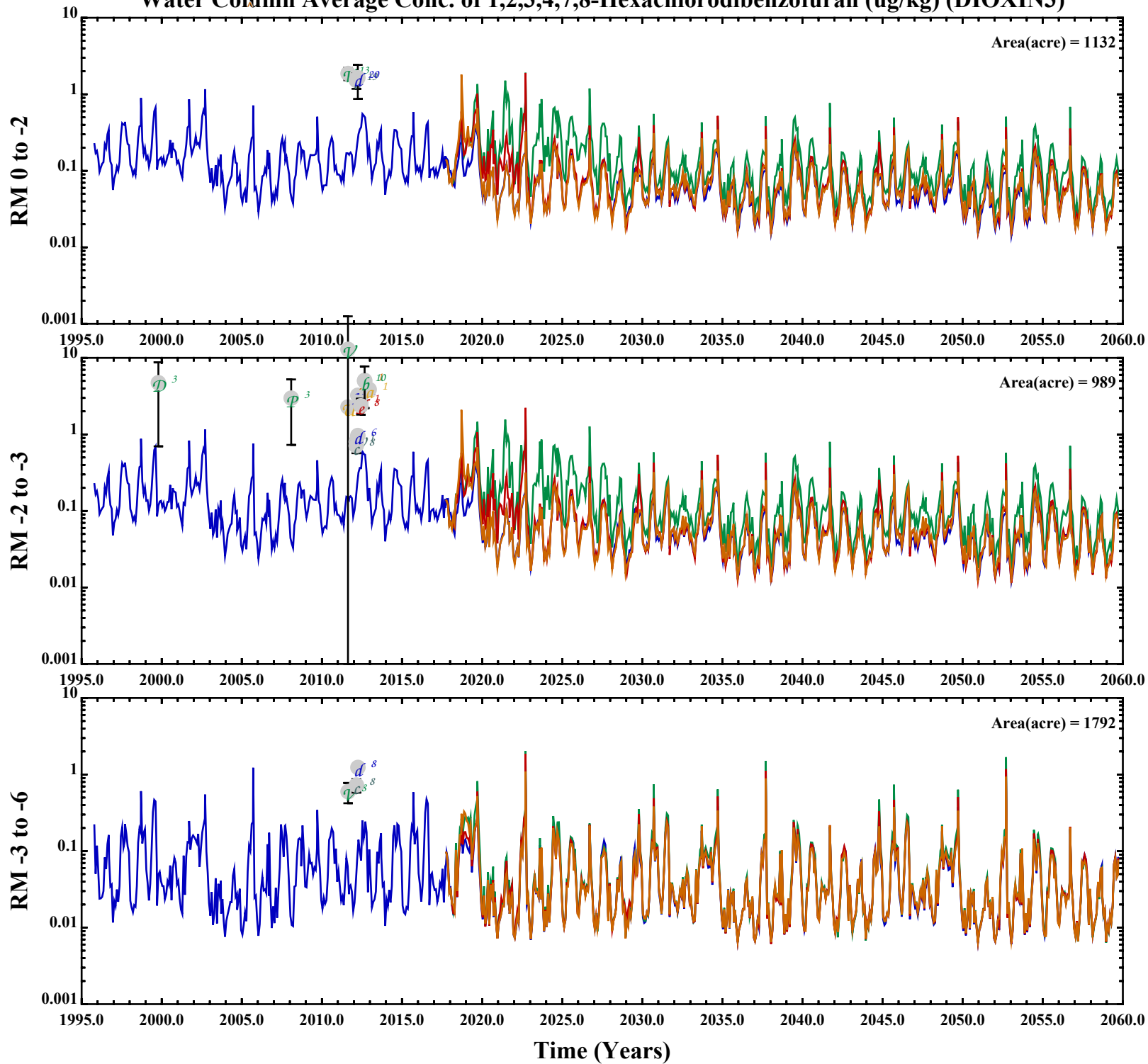


- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
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- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
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- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping



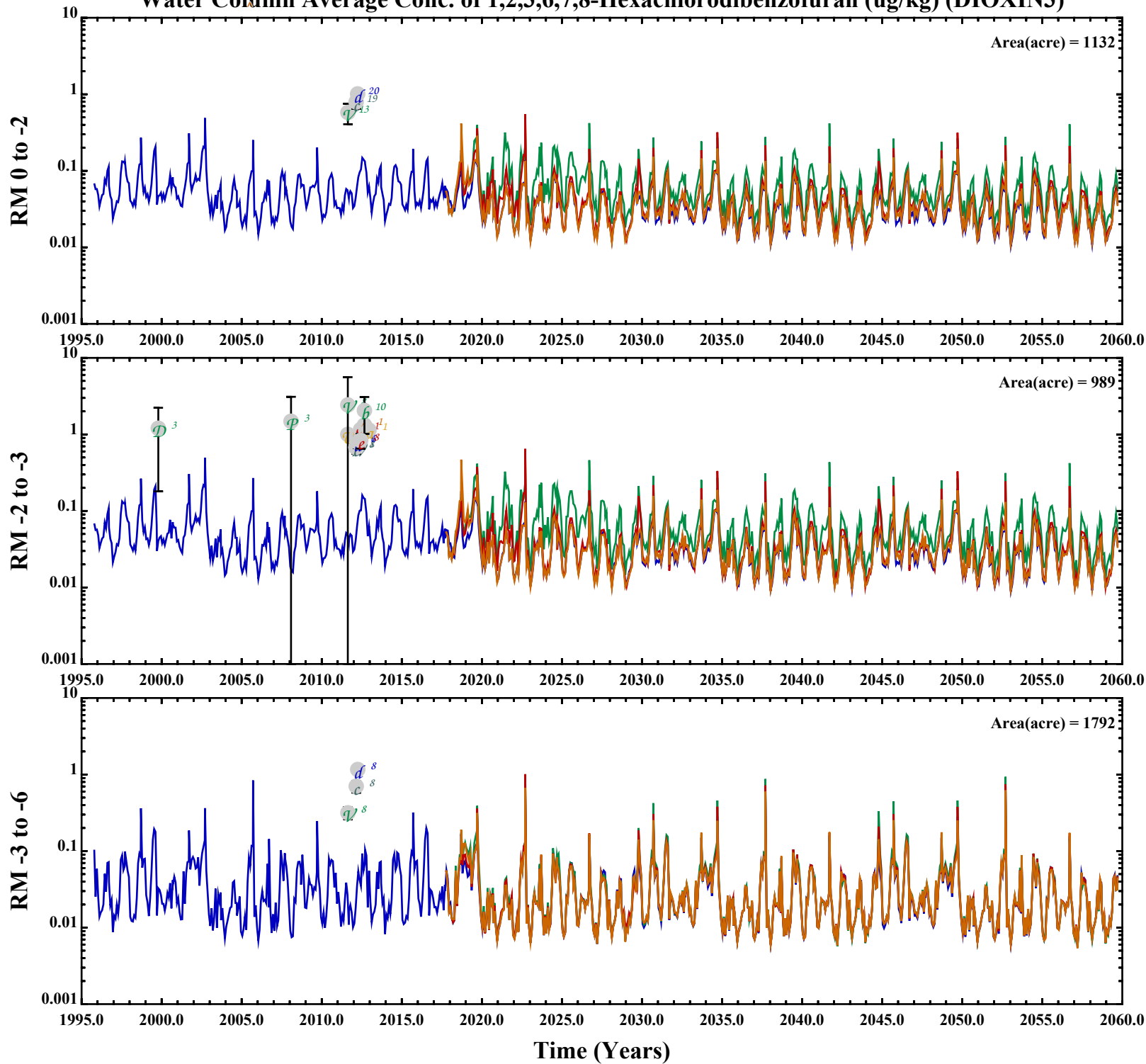
# Water Column Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
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- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

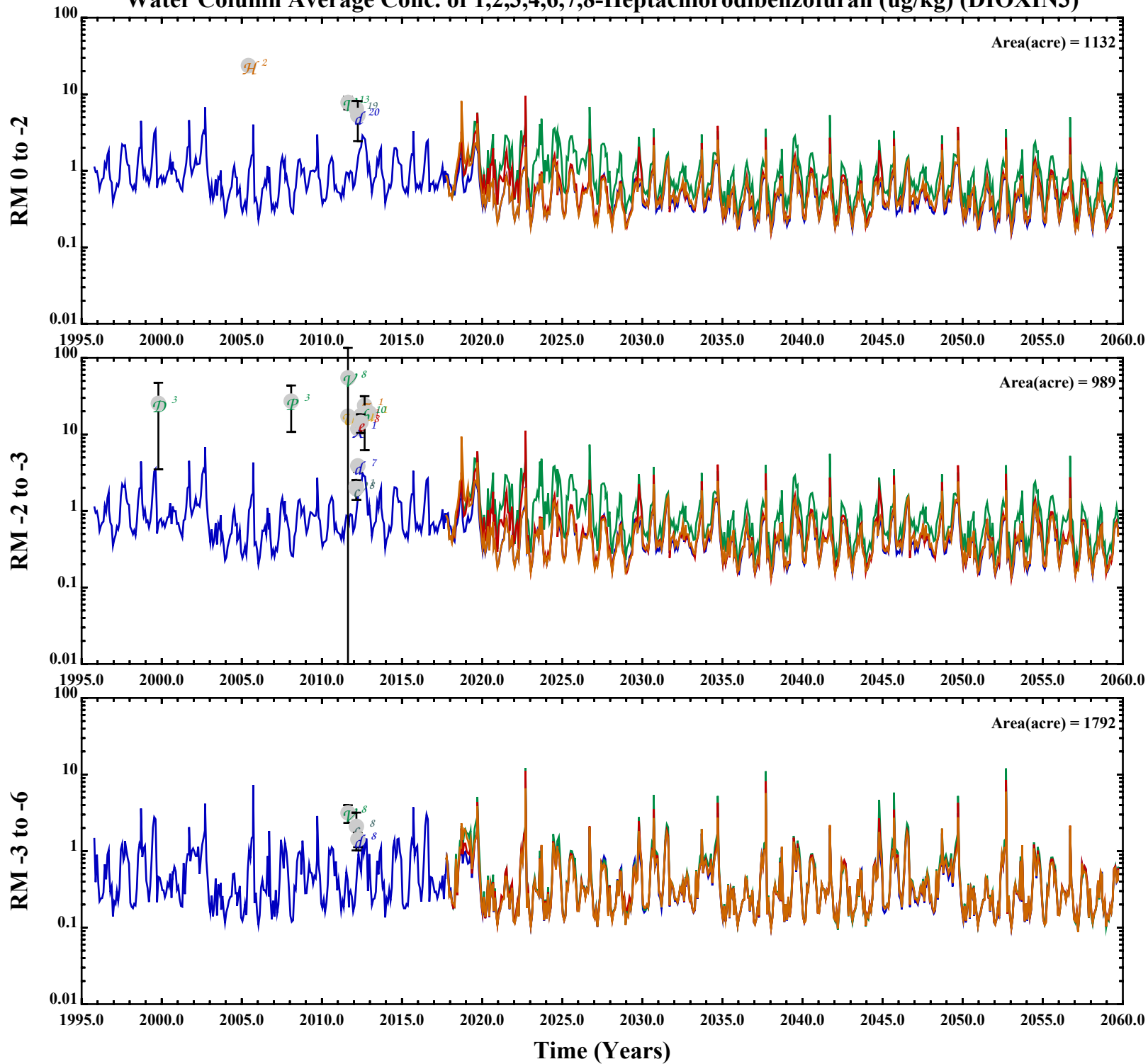
# Water Column Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
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- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

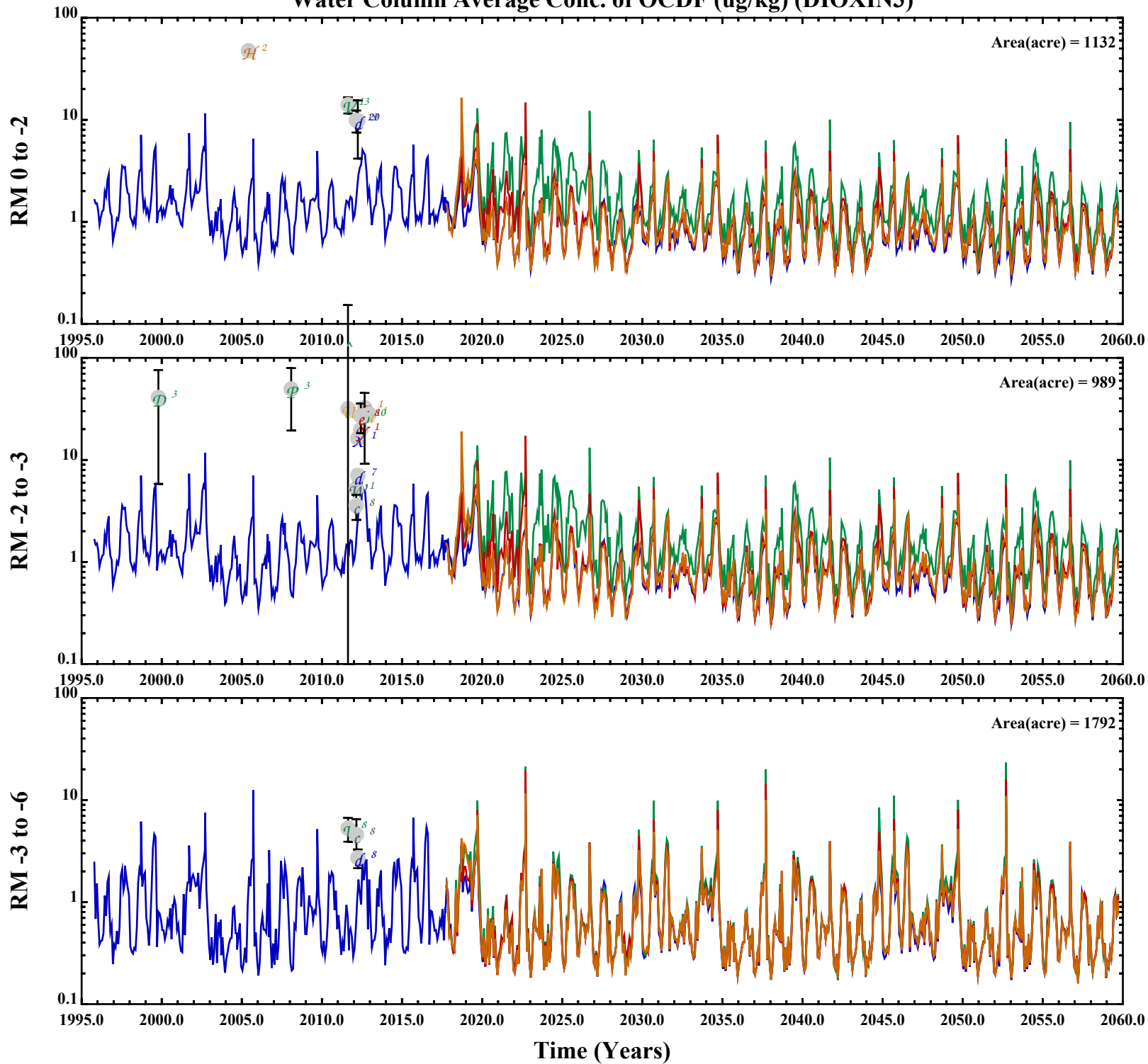
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)



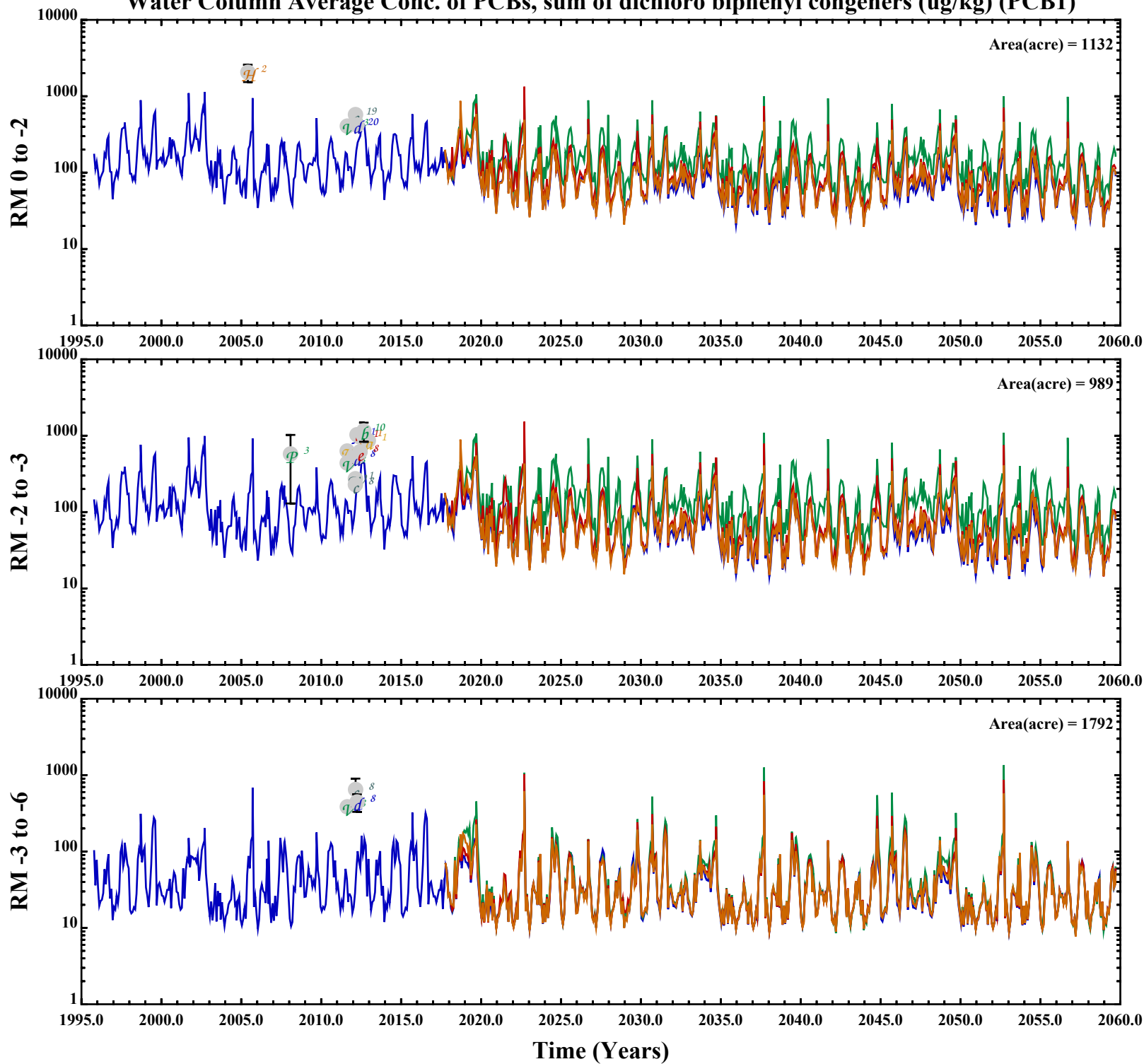
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
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  - W 2012 CDM Smith CWCM Sampling - Round 2
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  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of OCDF (ug/kg) (DIOXIN3)

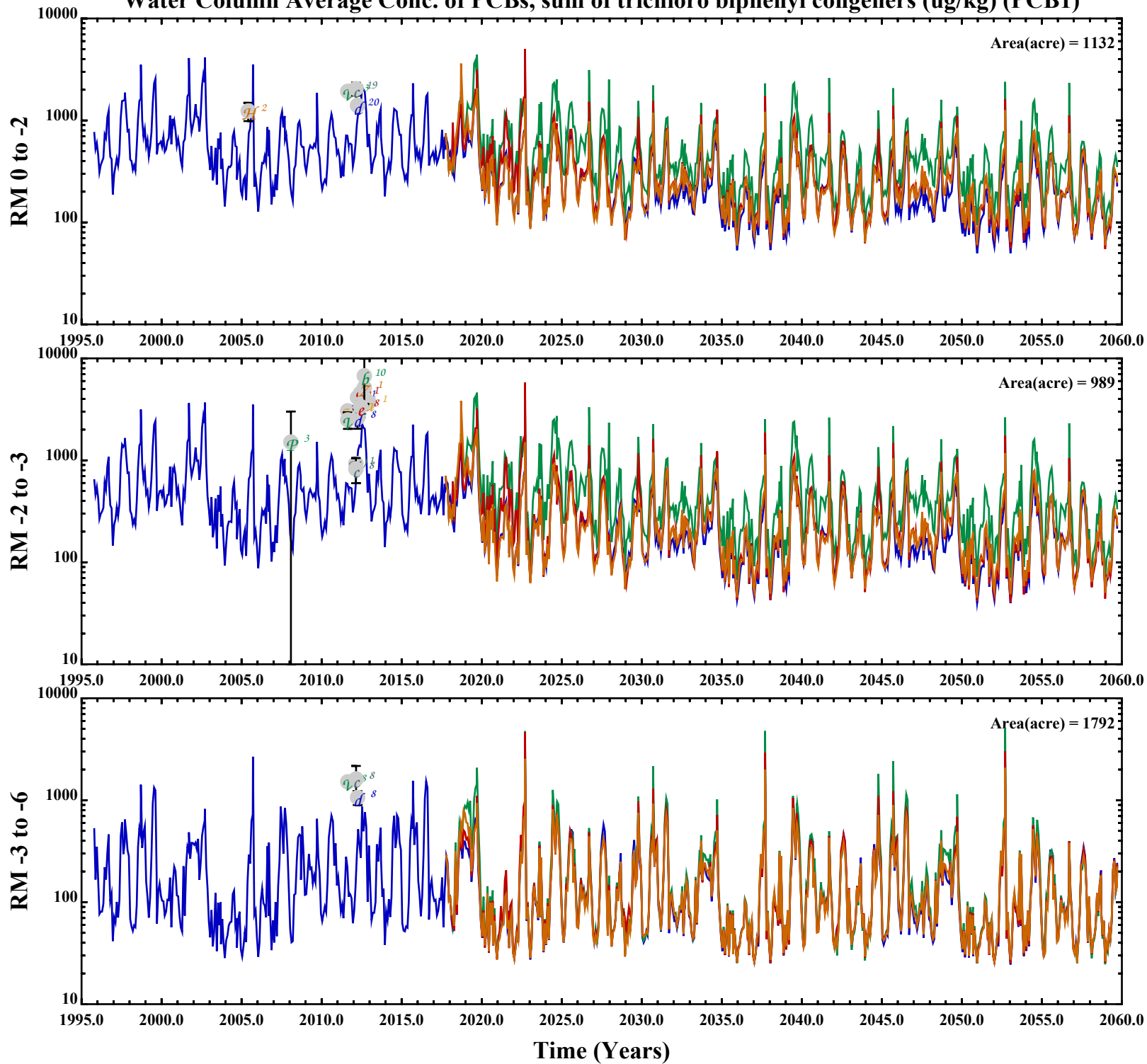


- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
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  - E* 1999 Newark Bay Reach A Monitoring
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  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)

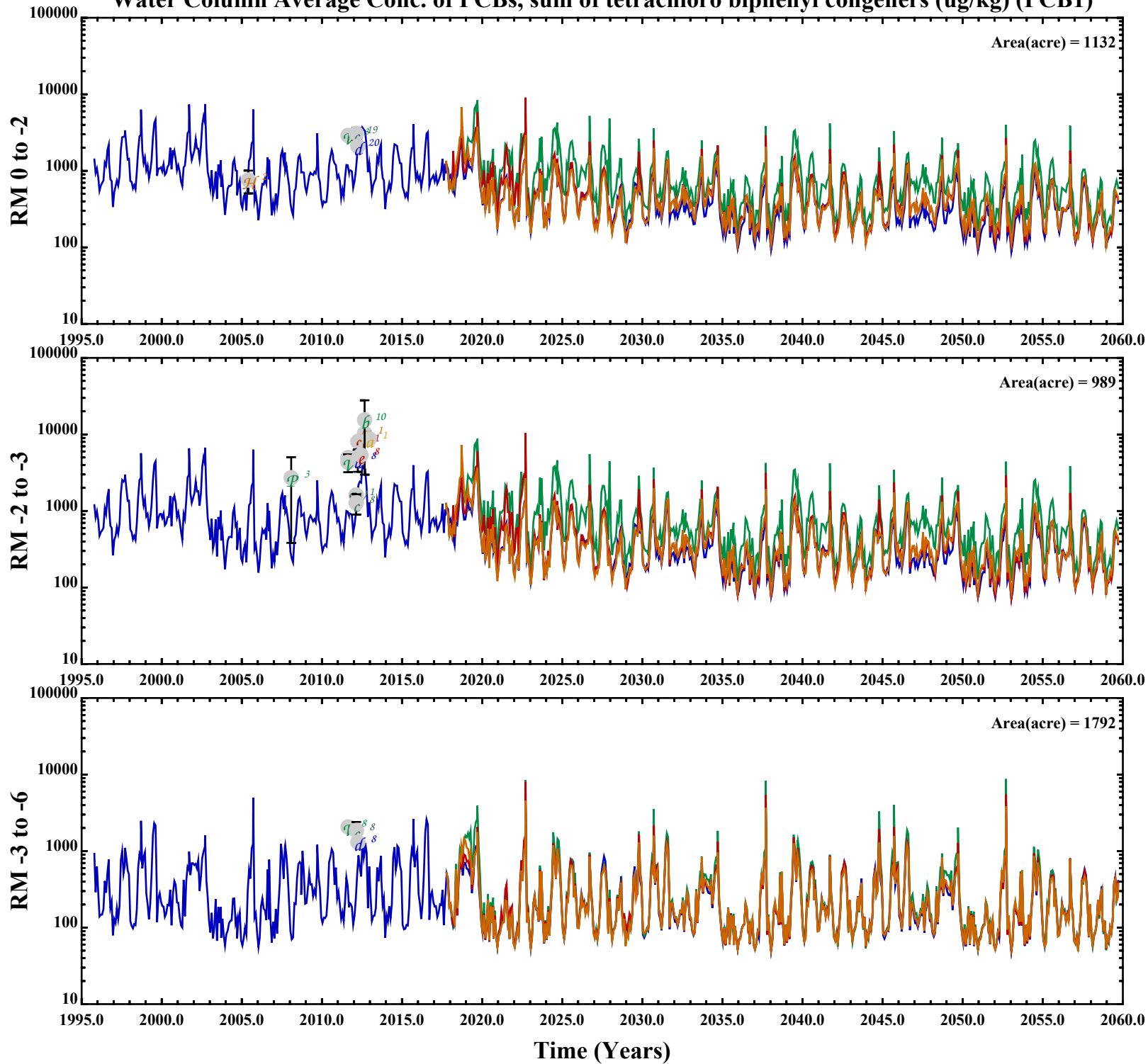


# Water Column Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

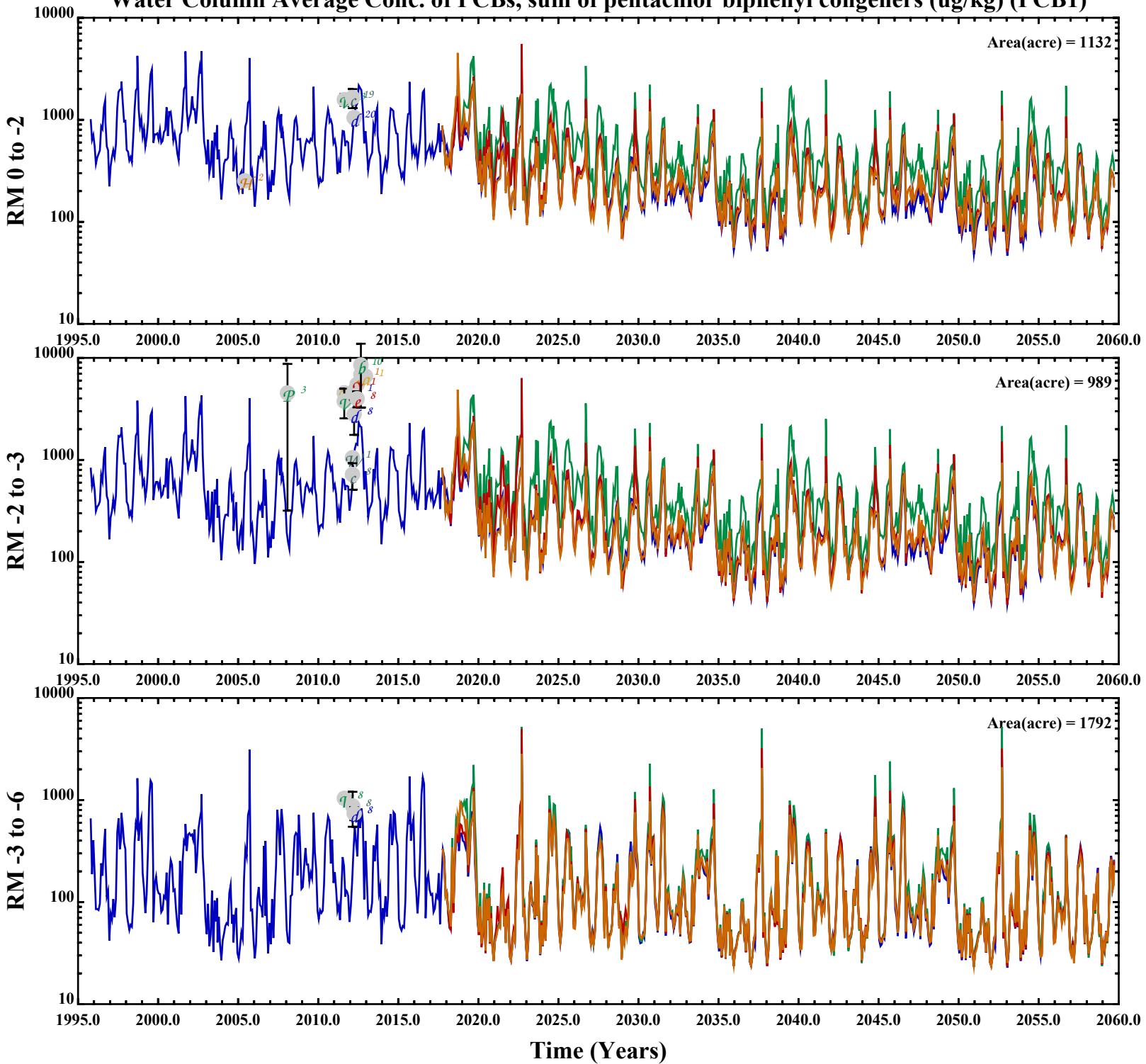


- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
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  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)



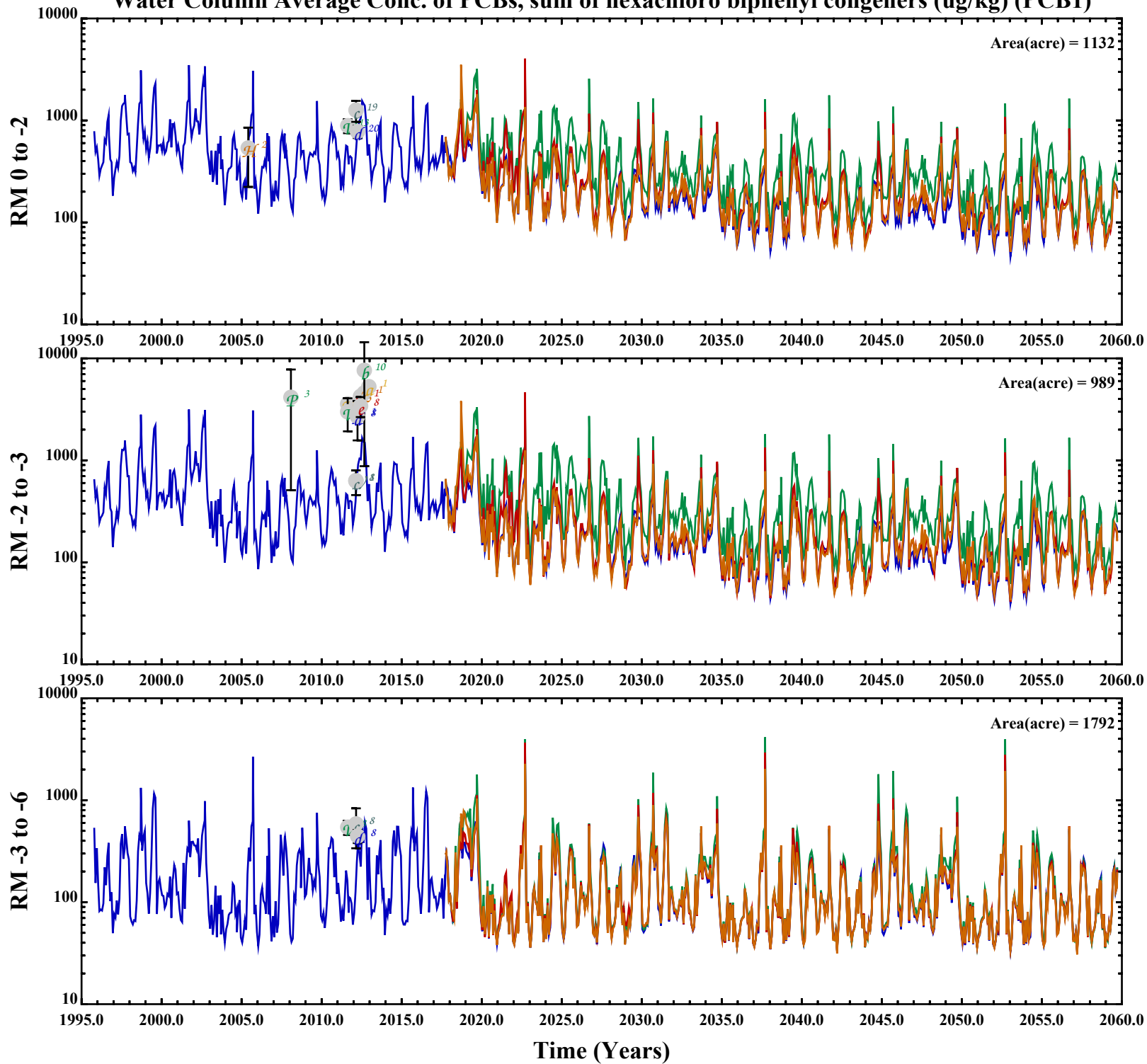
# Water Column Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

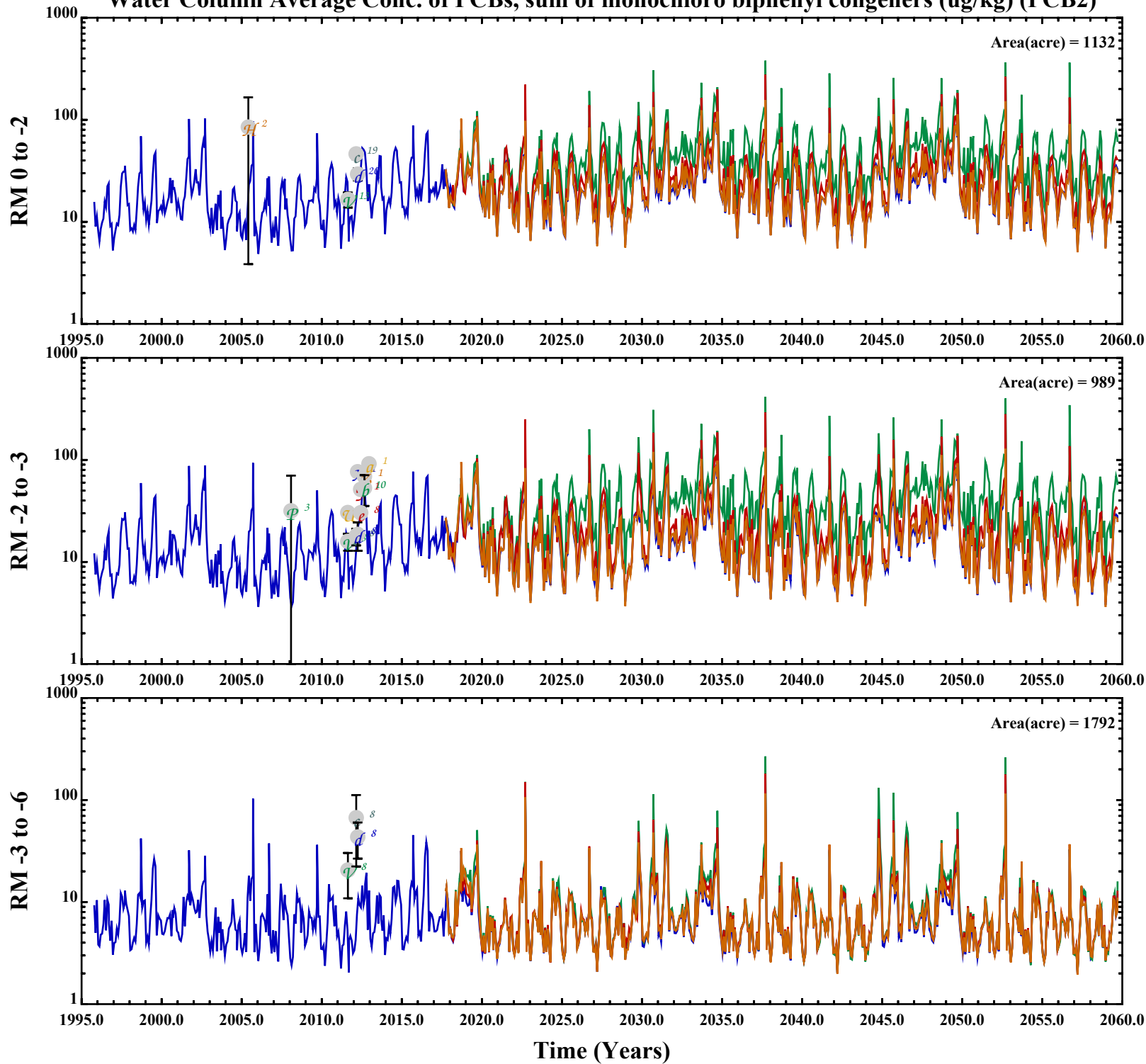


# Water Column Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)



- A* 1993-1997 USACE - DMDAT
  - B* 1995-96 Passaic Study RI/FS Sed Mobility
  - C* 1997 Outfall Sampling Program
  - D* 1998-2001 CARP Database
  - E* 1999 Newark Bay Reach A Monitoring
  - F* 1999 NewarkBay ReachABCDBaselineSampling
  - G* 1999 USACE Drift Removal Monitoring
  - H* 1999-2006 Honeywell Intl Sampling
  - I* 2000 Toxicity Identification Evaluation
  - J* 2005 Hydrodynamic Mooring
  - K* 2005 MPI SPMD Deployment
  - L* 2005 USEPA-MPI High Flow Water Column
  - M* 2005 USEPA-MPI Large Volume Study
  - N* 2005 USEPA-MPI Small Volume Water Column
  - O* 2005 USEPA-MPI Water Column Above RM 8.5
  - P* 2007 USEPA-MPI-EMBM Water Column Sample
  - Q* 2009 CPG LPR Water Column Monitoring DEC
  - R* 2010 CPG LPR-NB PWCM Field Measurements
  - S* 2010 CPG LPR-NB PWCM Sample Dataset
  - T* 2010 USEPA LBG-CDM PWCM Oversight
  - U* 2011 CDM Smith CWCM Sampling Data
  - V* 2011 CPG CWCM Sampling Data
  - W* 2012 CDM Smith CWCM Sampling - Round 2
  - X* 2012 CDM Smith CWCM Sampling - Round 3
  - Y* 2012 CDM Smith CWCM Sampling - Round 4
  - Z* 2012 CDM Smith CWCM Sampling - Round 5
  - a* 2012 CDM Smith CWCM Sampling Round - 6
  - b* 2012 CPG CWCM Sampling - Low Flow
  - c* 2012 CPG CWCM Sampling - Round 2
  - d* 2012 CPG CWCM Sampling - Round 3
  - e* 2012 CPG CWCM Sampling - Round 4
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

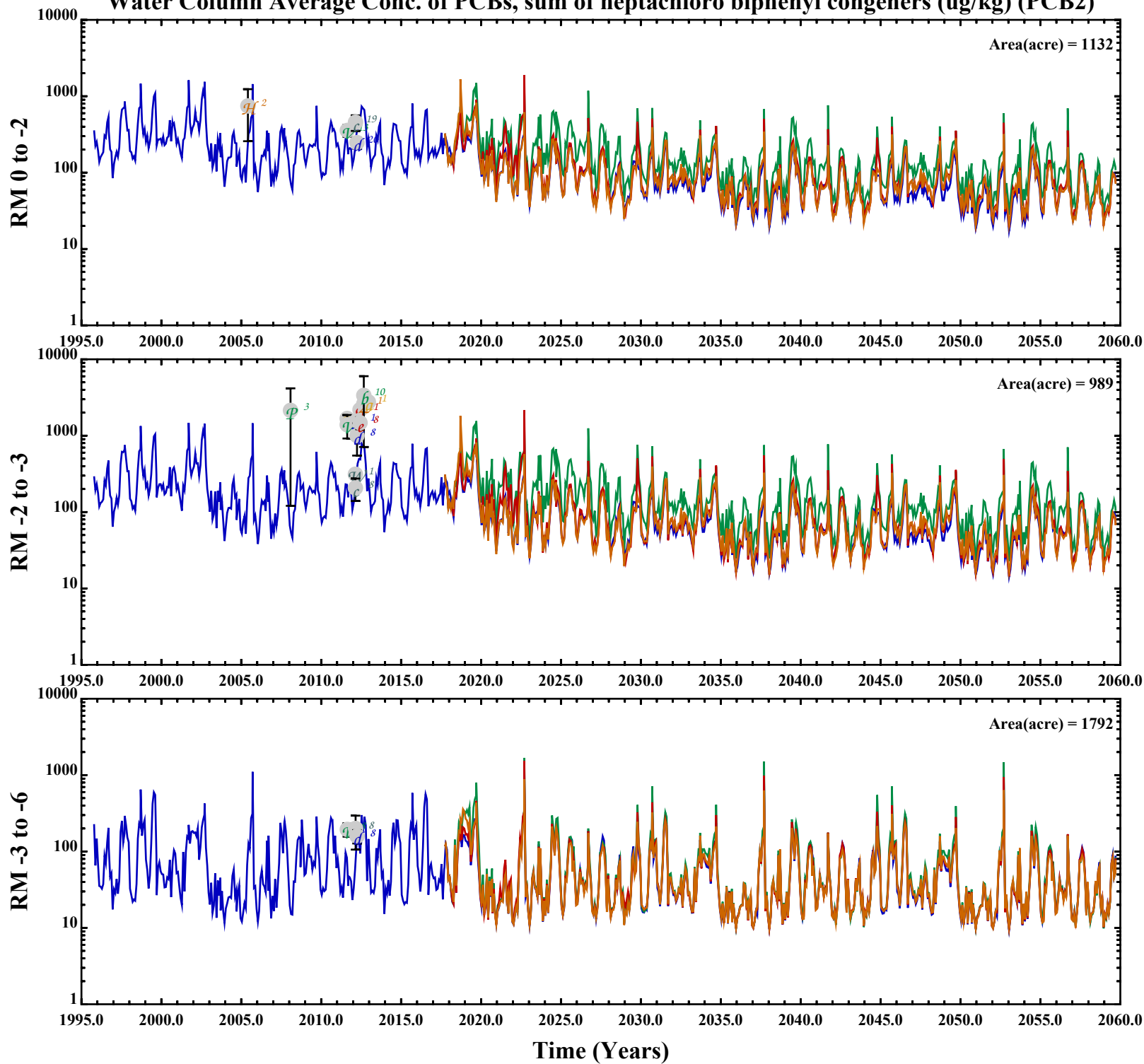
# Water Column Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)



- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
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- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

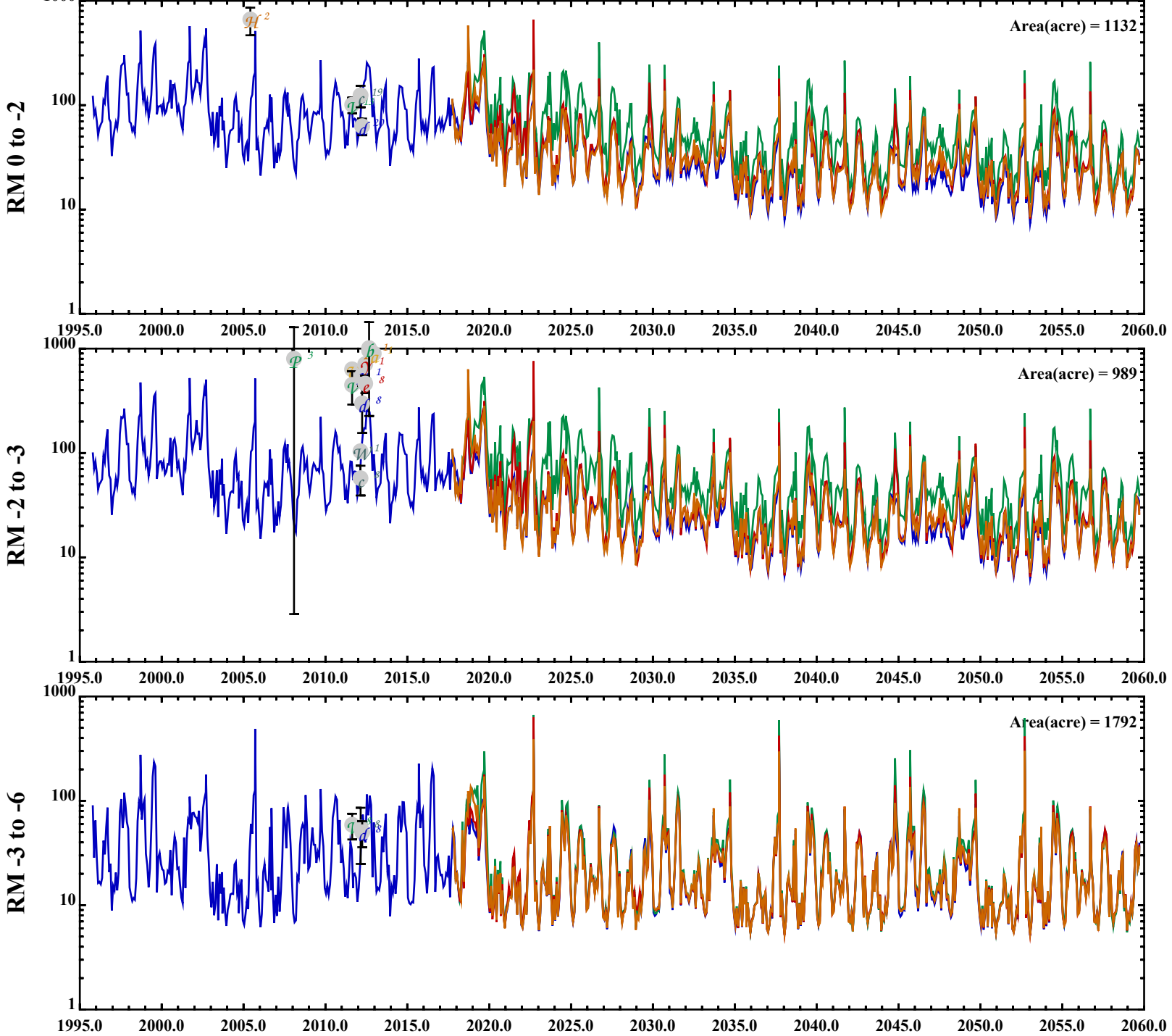
- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- **No Action Gradient IC, Reach Scale Up**
  - **Deep Dredging**
  - **Full Capping**
  - **Focused Capping**

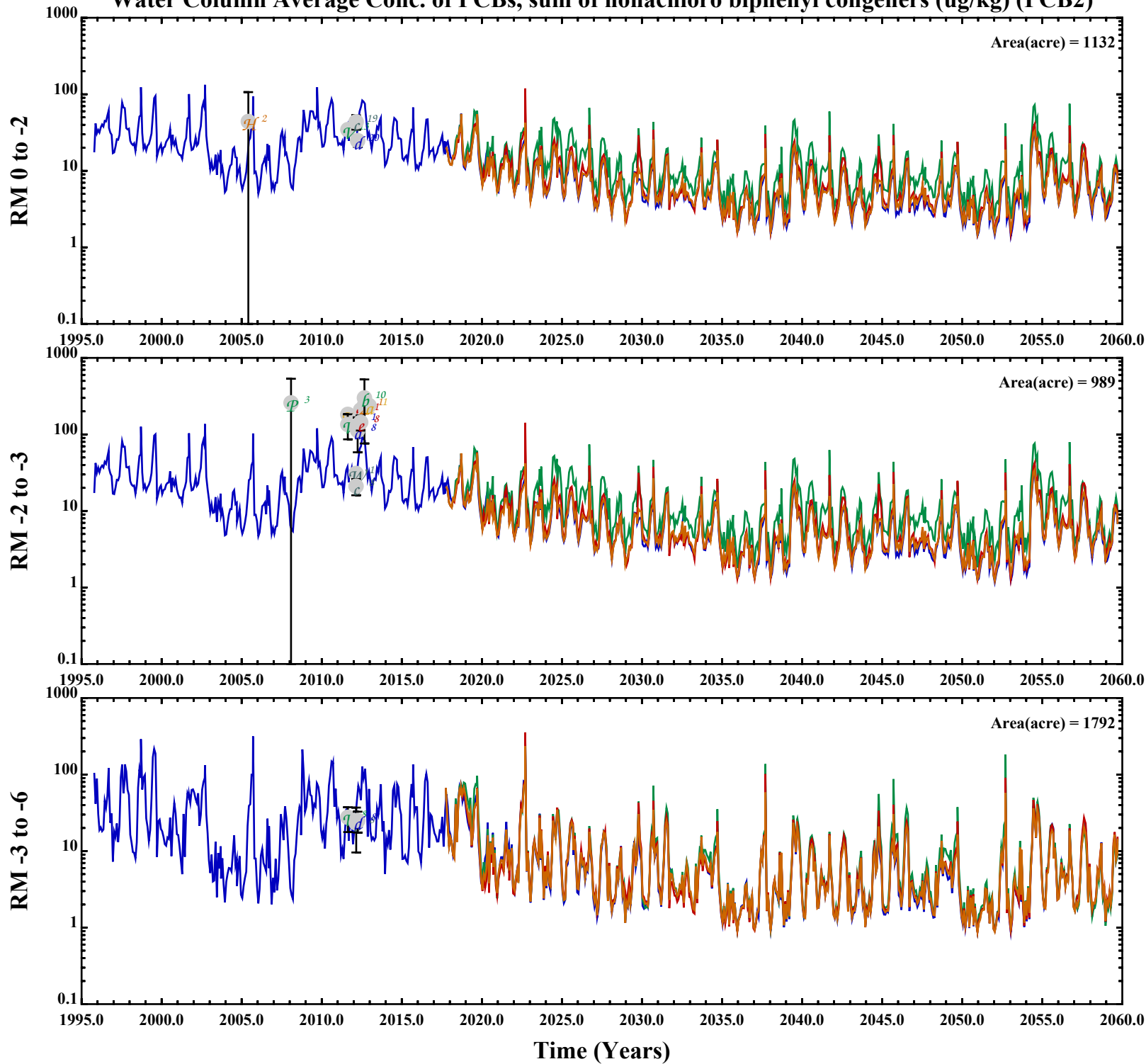
# Water Column Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

Time (Years)

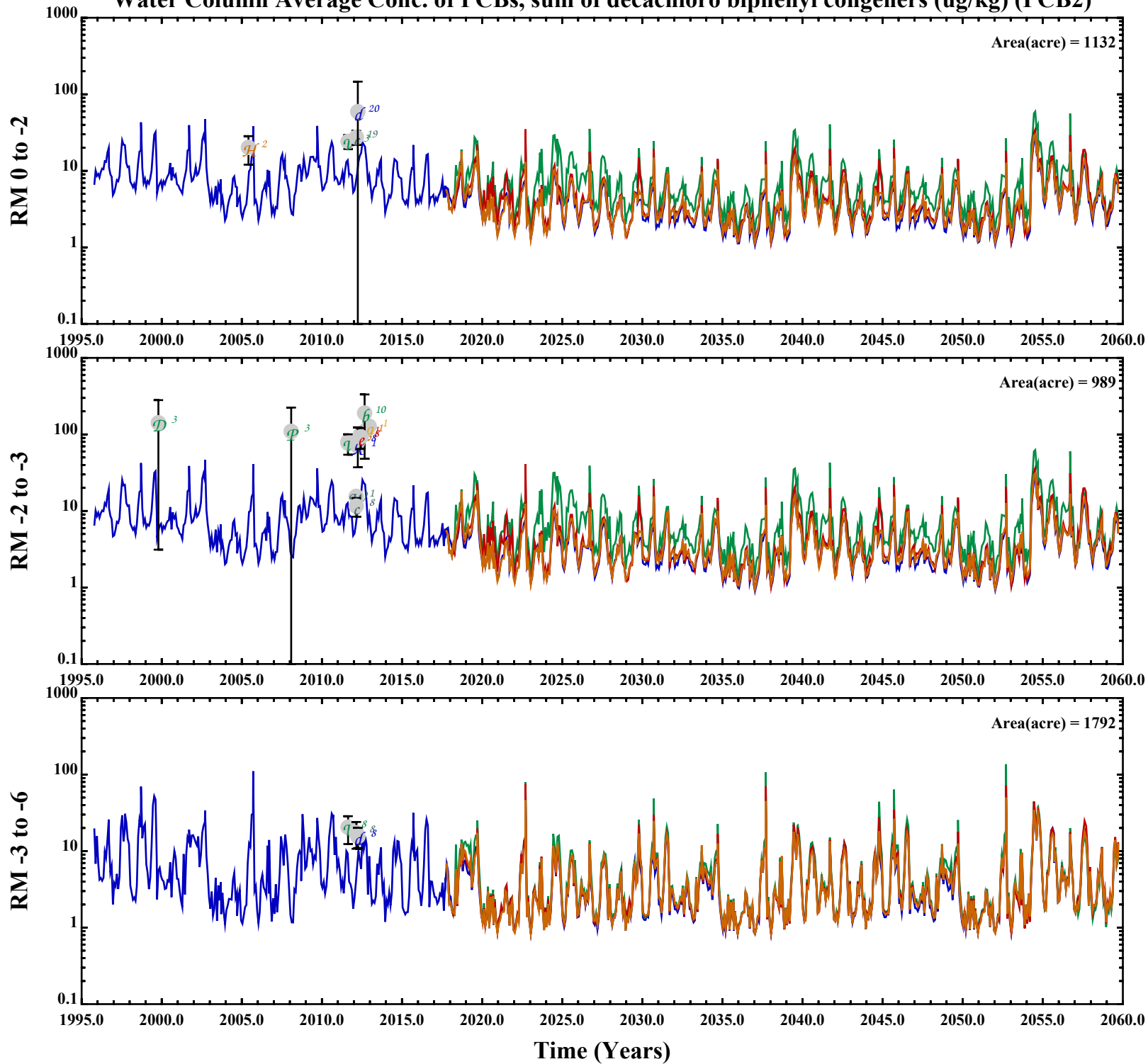
# Water Column Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
- I 2000 Toxicity Identification Evaluation
- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

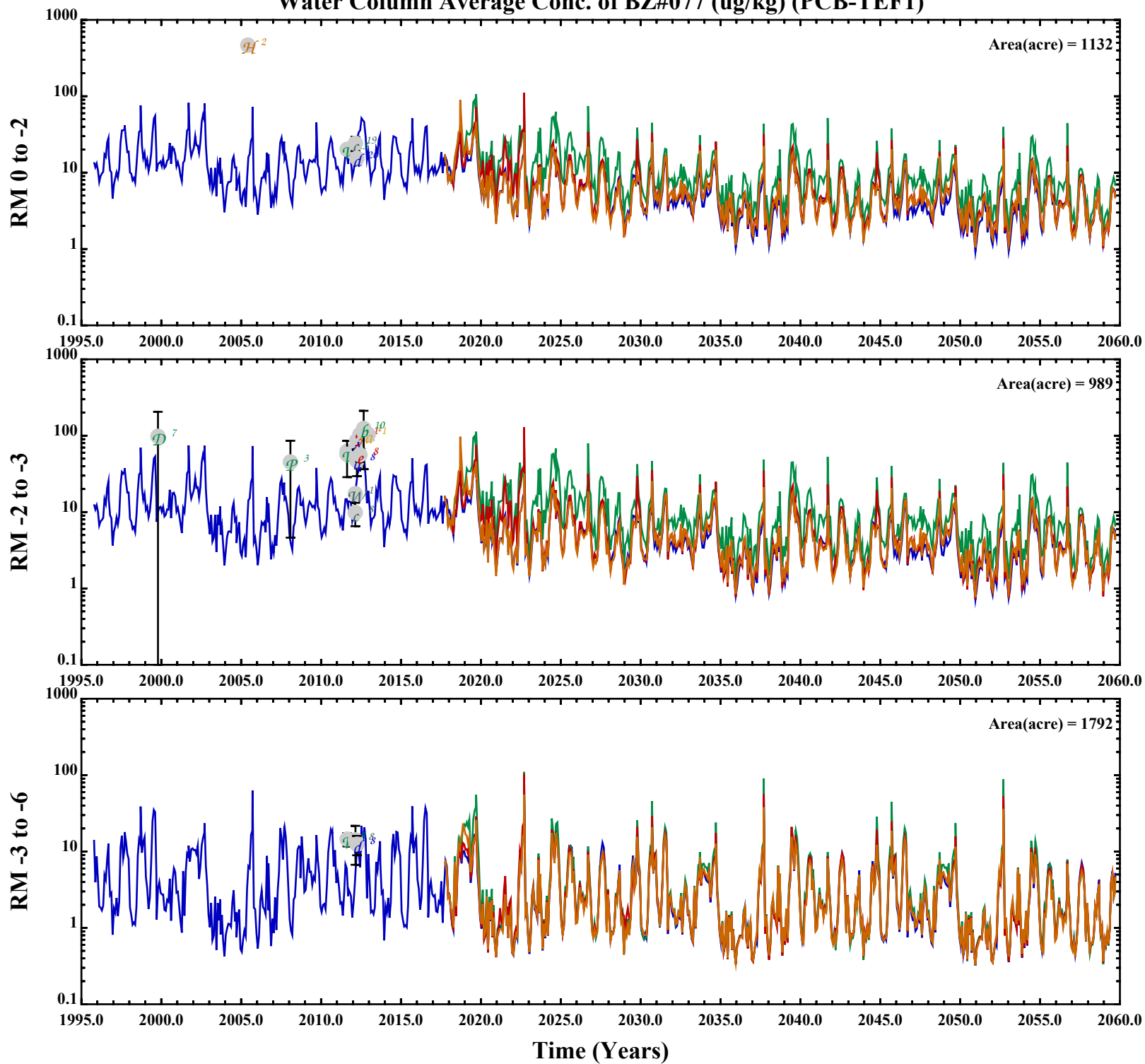
# Water Column Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)



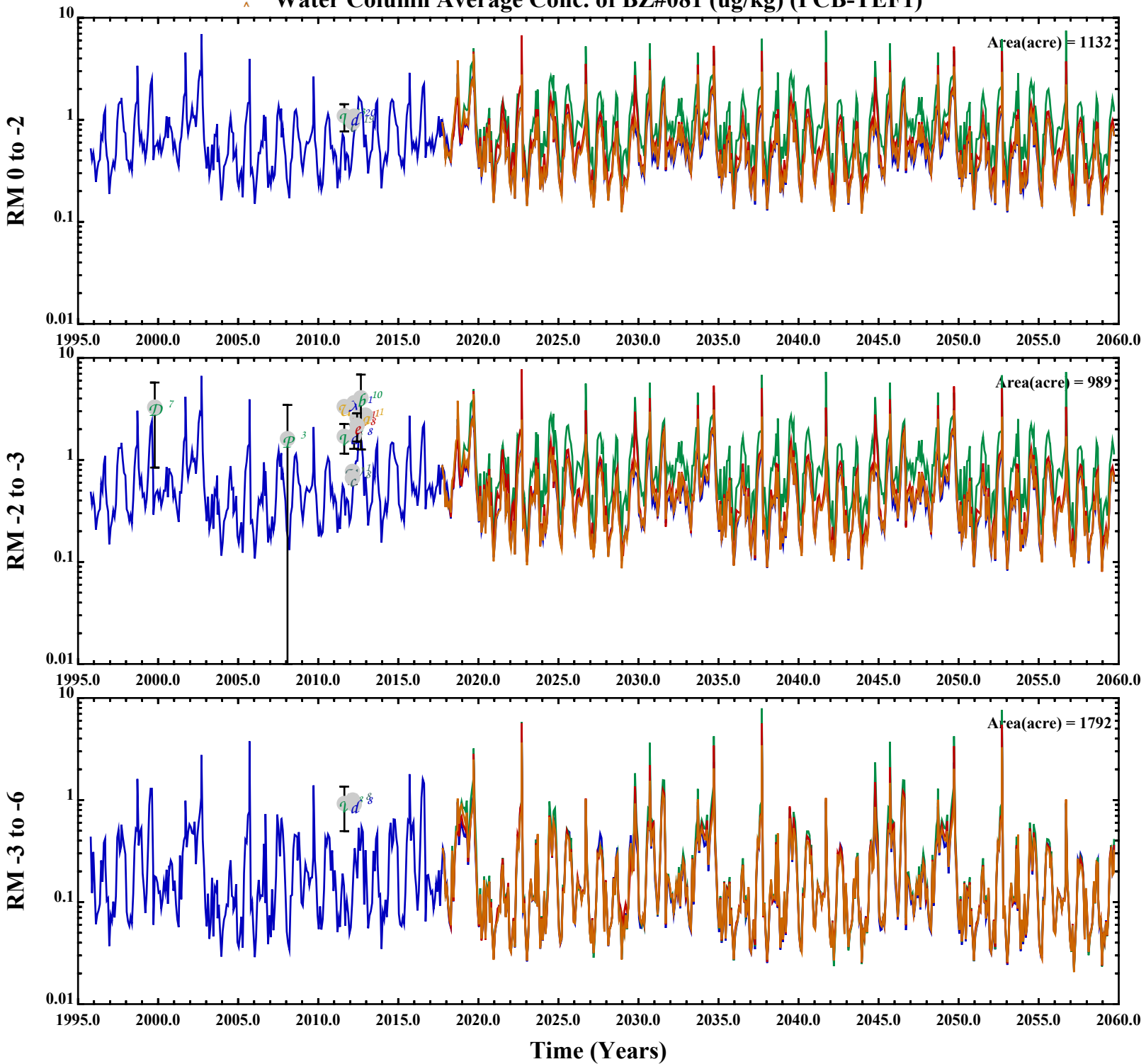
- A* 1993-1997 USACE - DMDAT
- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
- N* 2005 USEPA-MPI Small Volume Water Column
- O* 2005 USEPA-MPI Water Column Above RM 8.5
- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
- R* 2010 CPG LPR-NB PWCM Field Measurements
- S* 2010 CPG LPR-NB PWCM Sample Dataset
- T* 2010 USEPA LBG-CDM PWCM Oversight
- U* 2011 CDM Smith CWCM Sampling Data
- V* 2011 CPG CWCM Sampling Data
- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- **No Action Gradient IC, Reach Scale Up**
- **Deep Dredging**
- **Full Capping**
- **Focused Capping**

# Water Column Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)



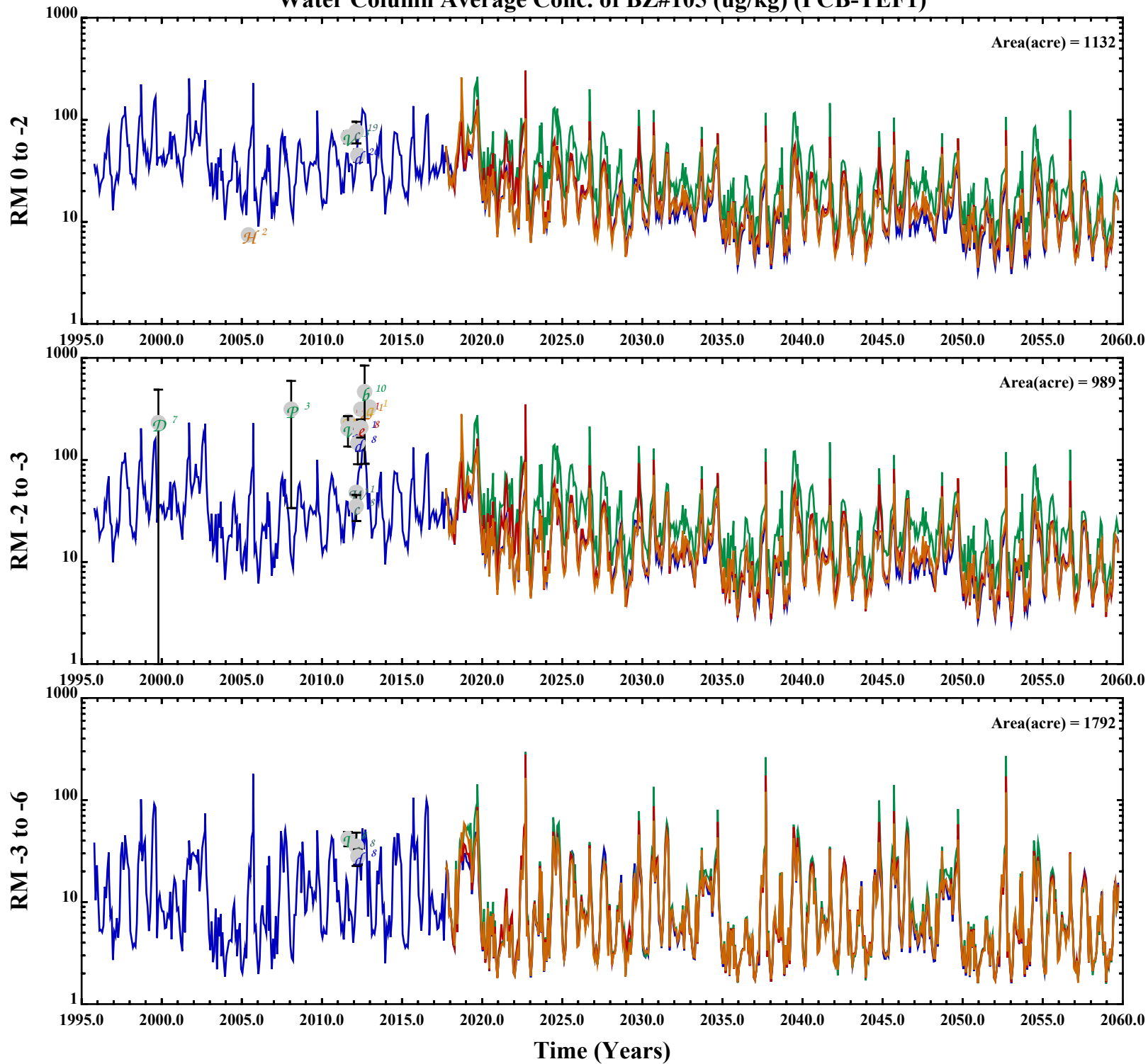
# Water Column Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

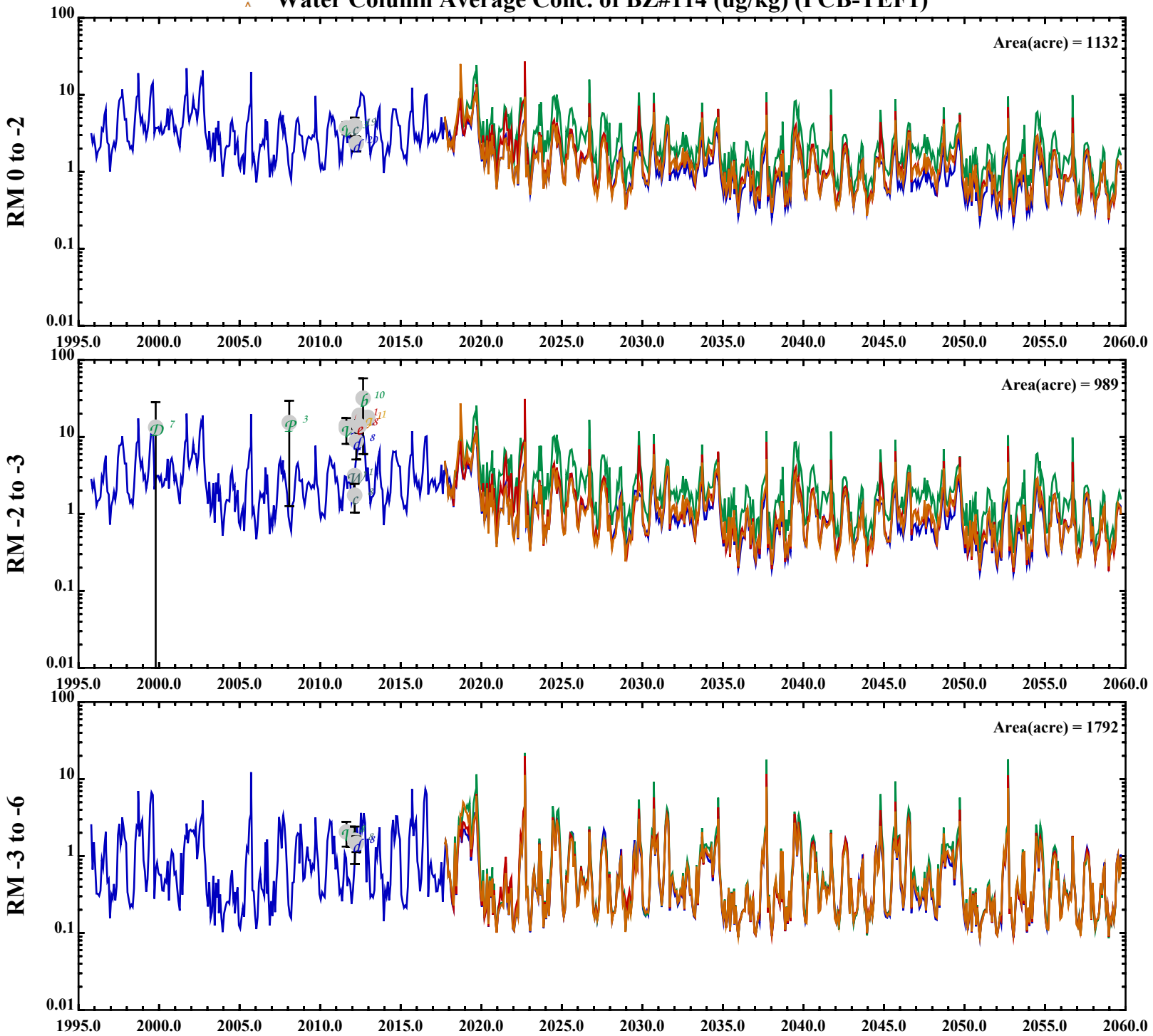


# Water Column Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)



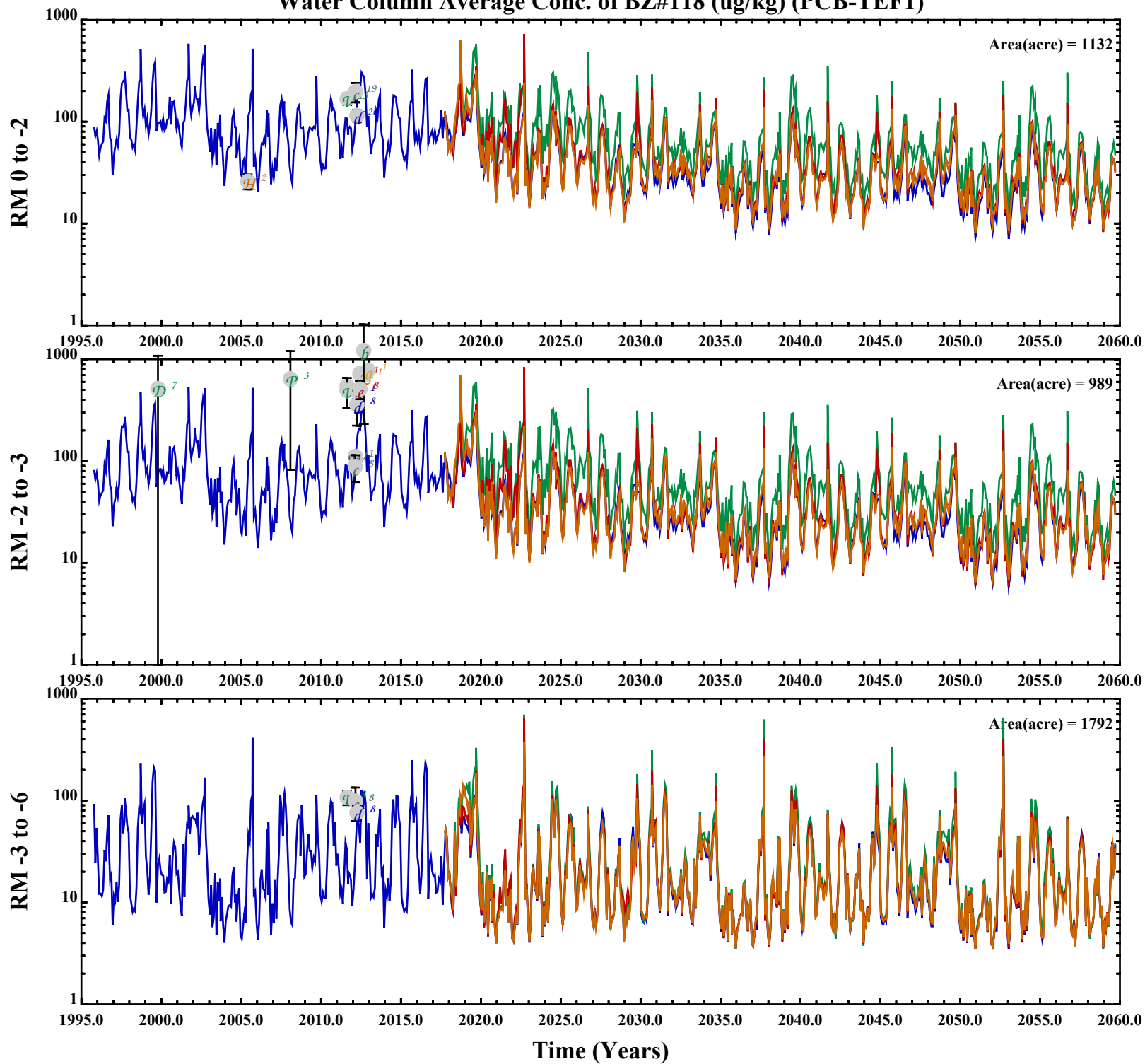
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)

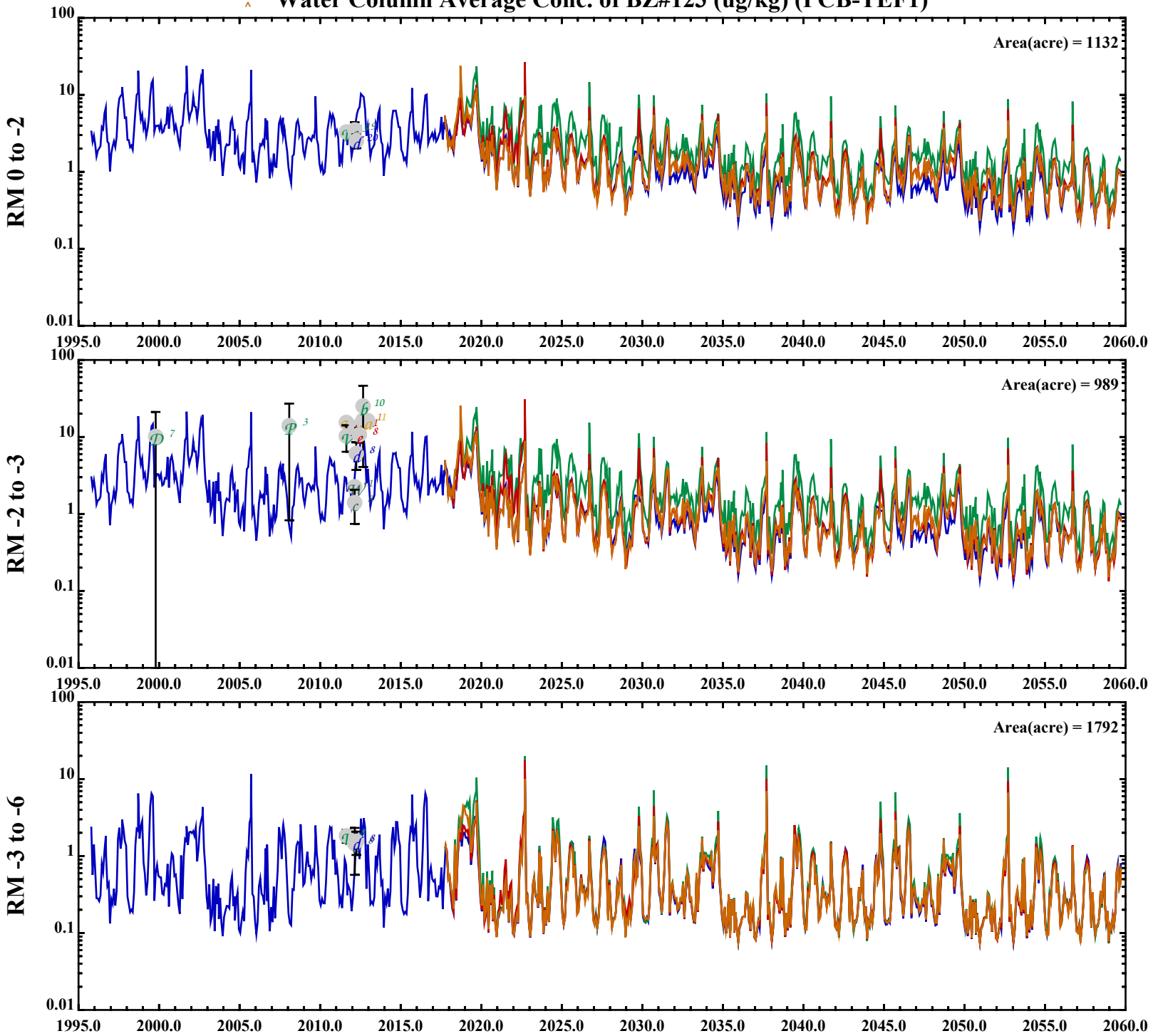


- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)



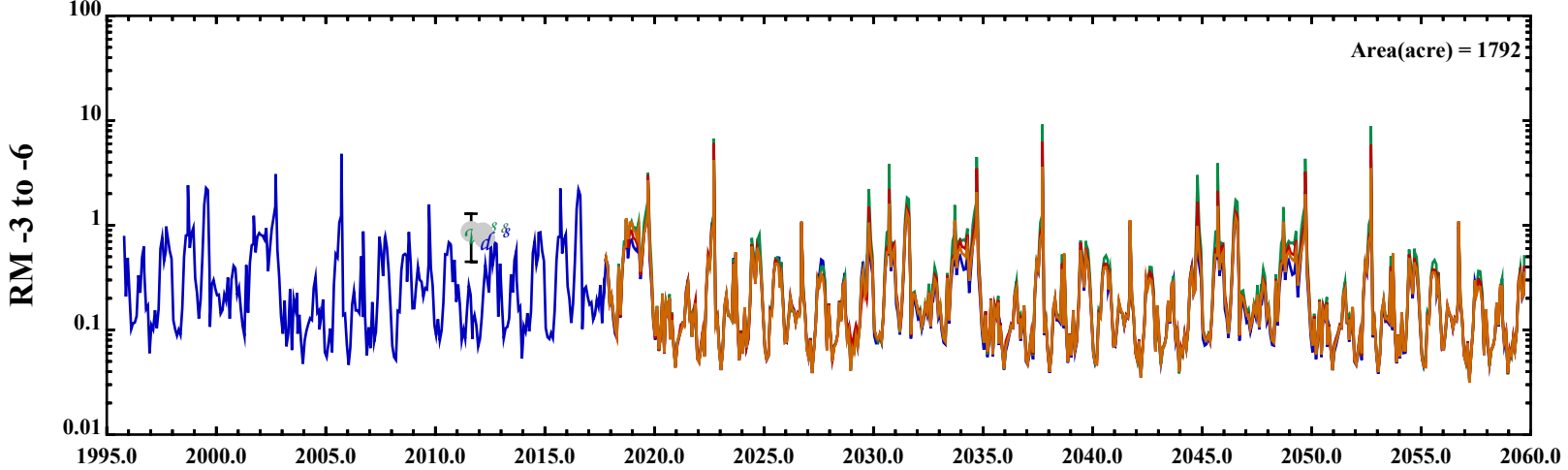
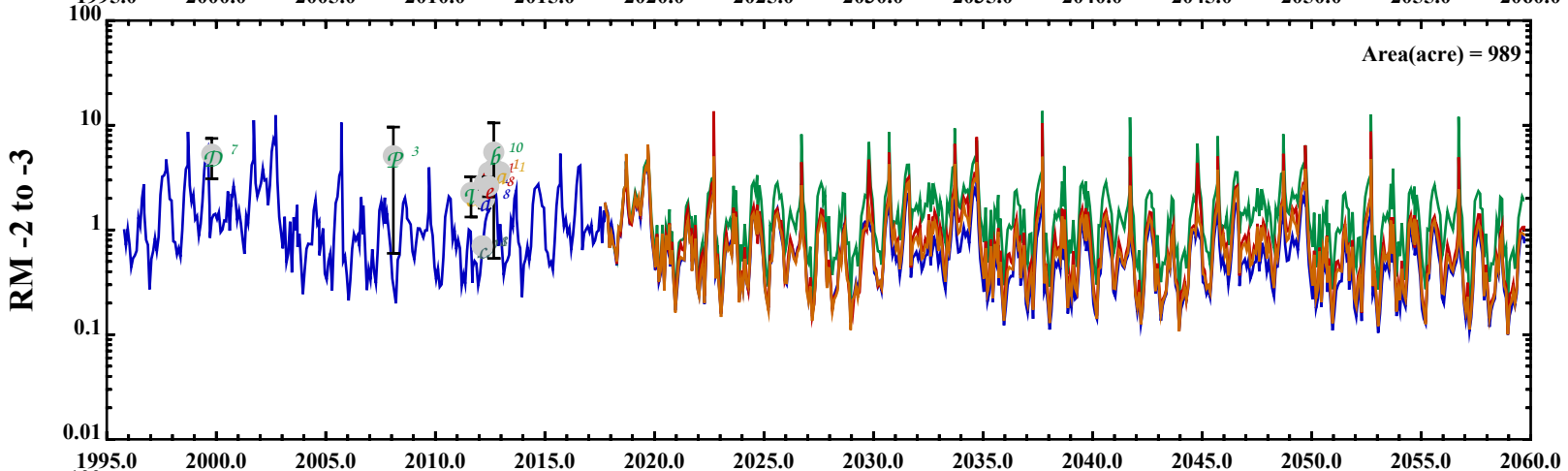
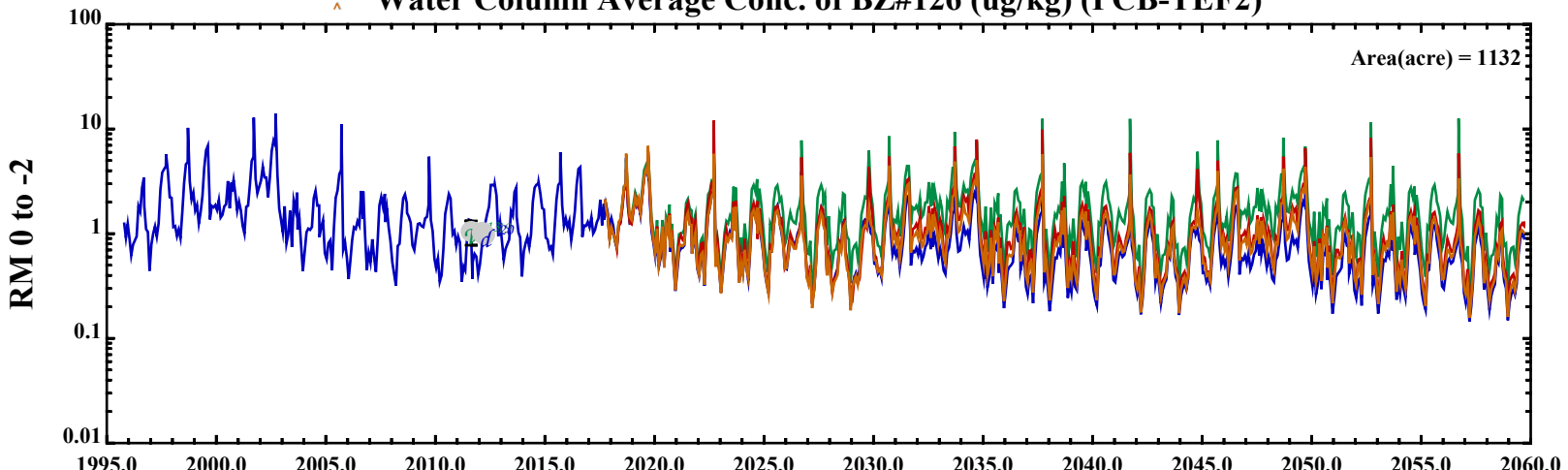
# Water Column Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

Time (Years)

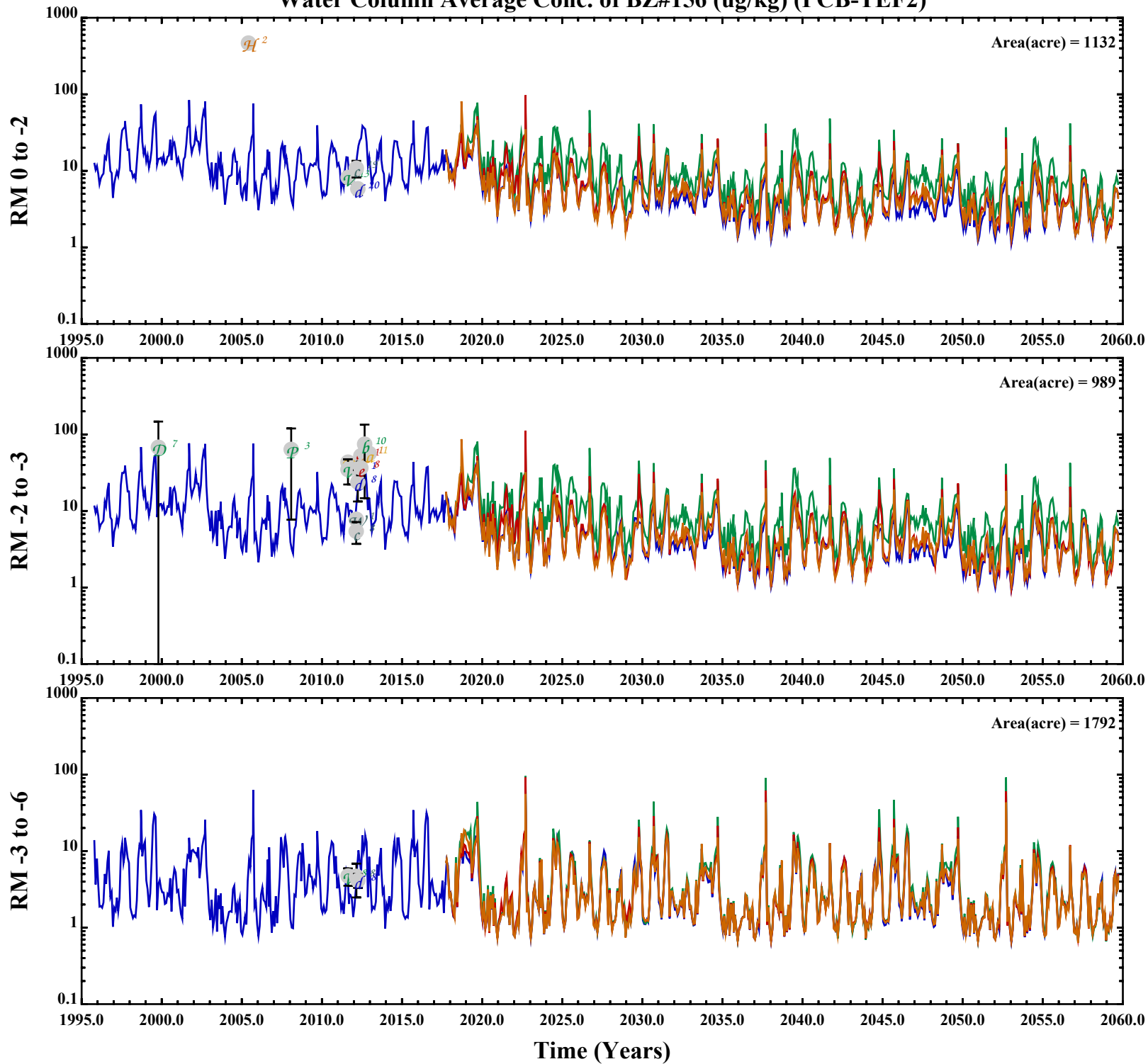
# Water Column Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

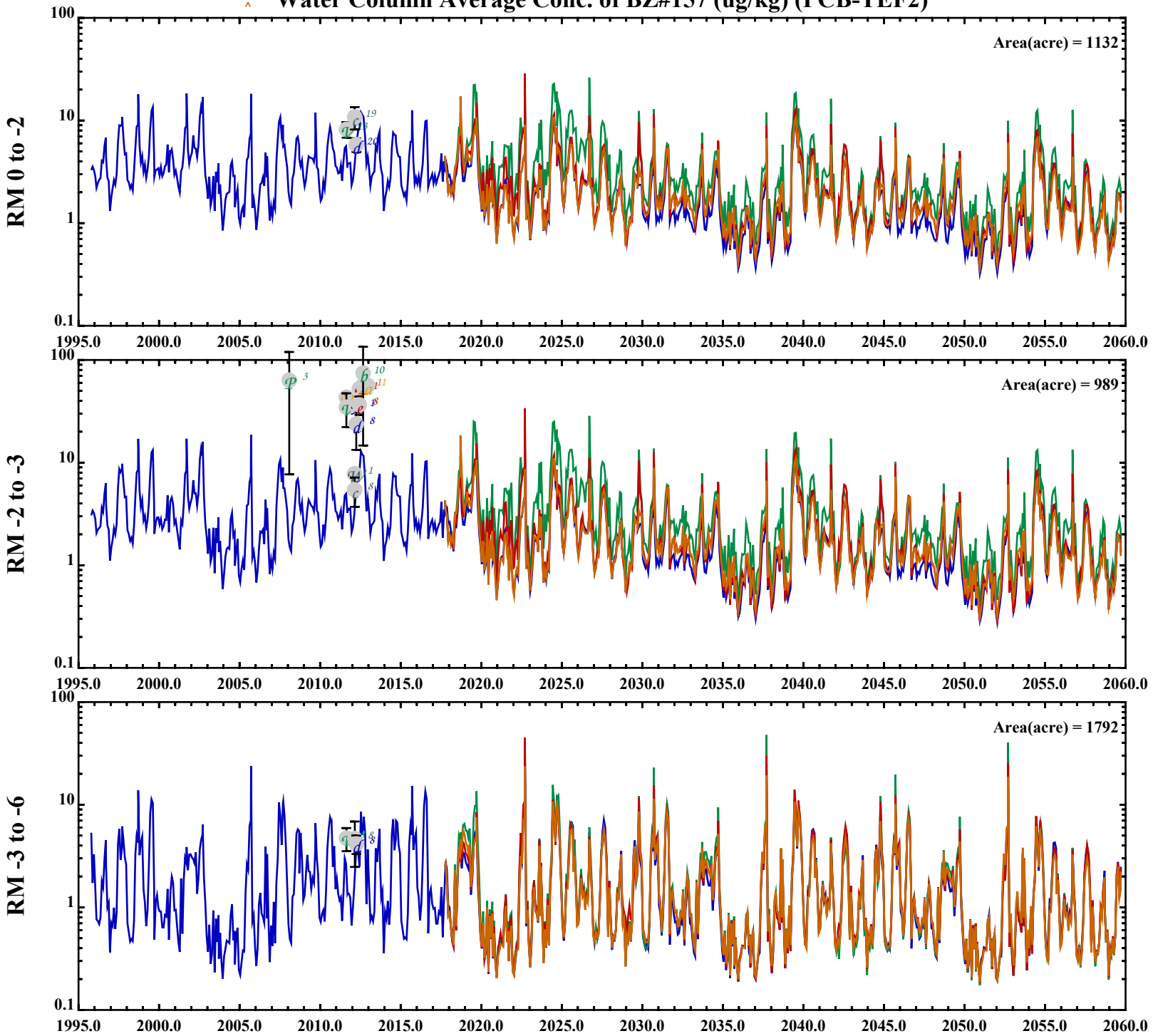
Time (Years)

# Water Column Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)



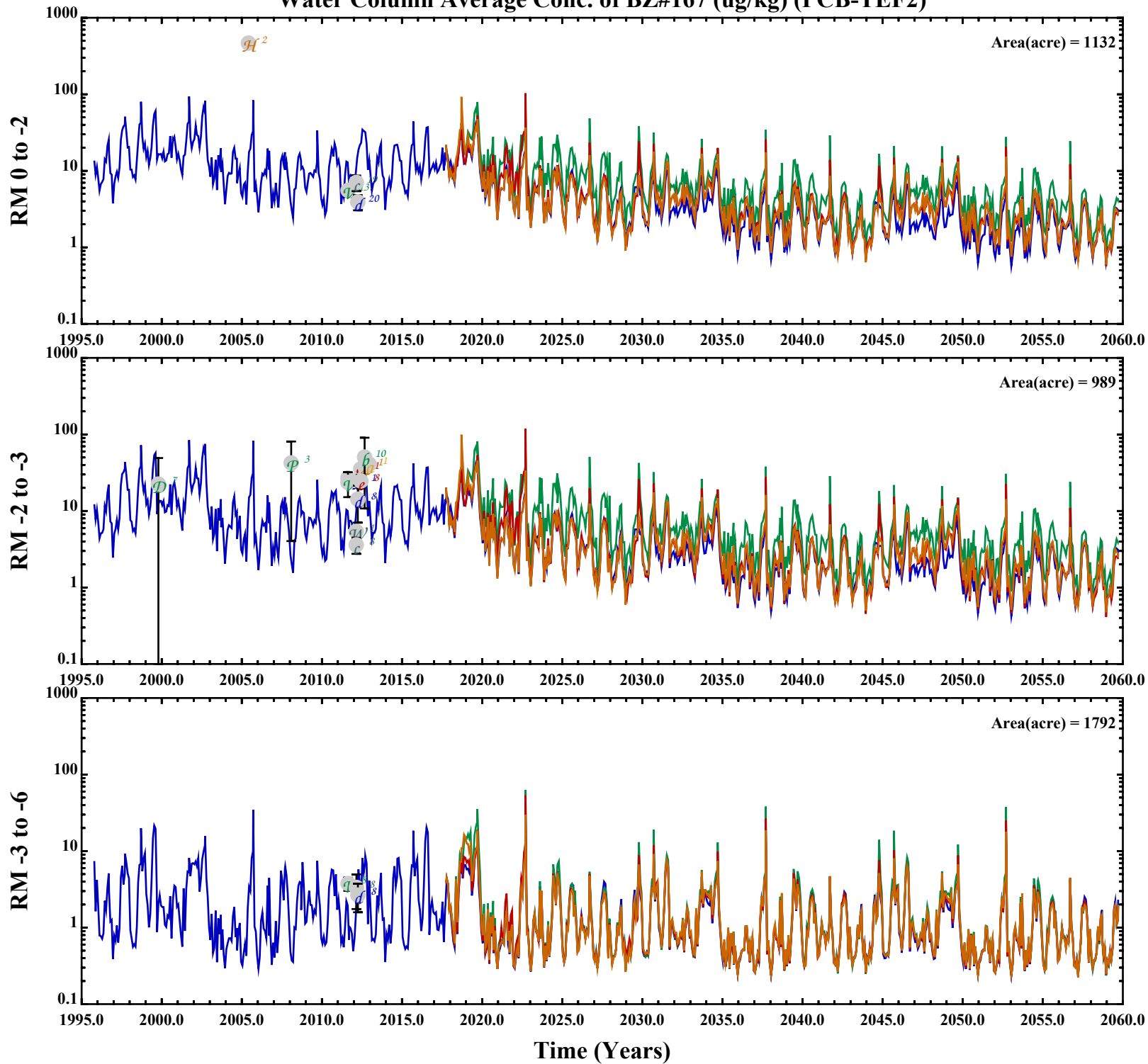
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 USEPA LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

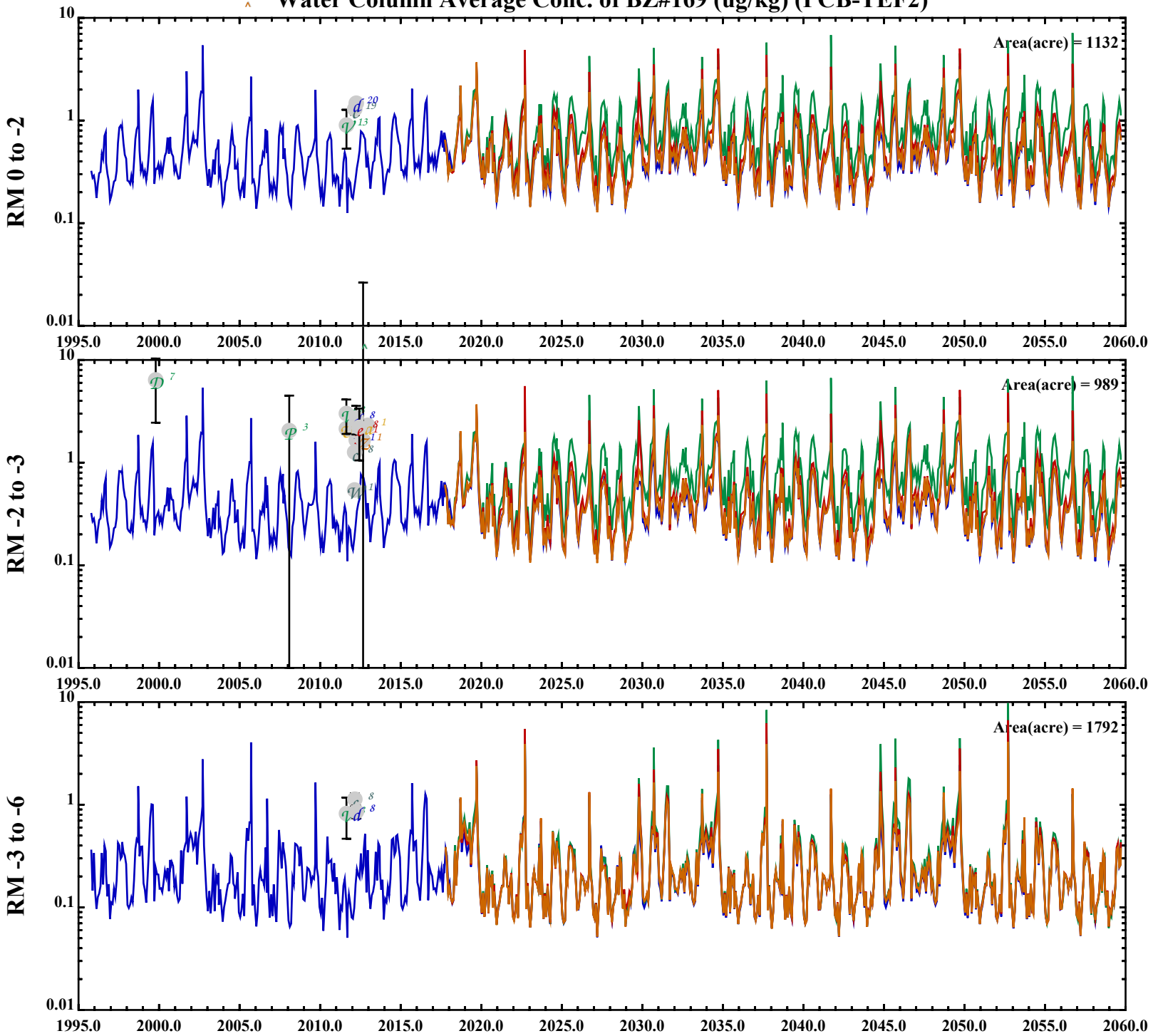
# Water Column Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)



- $A$  1993-1997 USACE - DMDAT
  - $B$  1995-96 Passaic Study RI/FS Sed Mobility
  - $C$  1997 Outfall Sampling Program
  - $D$  1998-2001 CARP Database
  - $E$  1999 Newark Bay Reach A Monitoring
  - $F$  1999 Newark Bay Reach ABCD Baseline Sampling
  - $G$  1999 USACE Drift Removal Monitoring
  - $H$  1999-2006 Honeywell Intl Sampling
  - $I$  2000 Toxicity Identification Evaluation
  - $J$  2005 Hydrodynamic Mooring
  - $K$  2005 MPI SPMD Deployment
  - $L$  2005 USEPA-MPI High Flow Water Column
  - $M$  2005 USEPA-MPI Large Volume Study
  - $N$  2005 USEPA-MPI Small Volume Water Column
  - $O$  2005 USEPA-MPI Water Column Above RM 8.5
  - $P$  2007 USEPA-MPI-EMBM Water Column Sample
  - $Q$  2009 CPG LPR Water Column Monitoring DEC
  - $R$  2010 CPG LPR-NB PWCM Field Measurements
  - $S$  2010 CPG LPR-NB PWCM Sample Dataset
  - $T$  2010 USEPA LBG-CDM PWCM Oversight
  - $U$  2011 CDM Smith CWCM Sampling Data
  - $V$  2011 CPG CWCM Sampling Data
  - $W$  2012 CDM Smith CWCM Sampling - Round 2
  - $X$  2012 CDM Smith CWCM Sampling - Round 3
  - $Y$  2012 CDM Smith CWCM Sampling - Round 4
  - $Z$  2012 CDM Smith CWCM Sampling - Round 5
  - $a$  2012 CDM Smith CWCM Sampling Round - 6
  - $b$  2012 CPG CWCM Sampling - Low Flow
  - $c$  2012 CPG CWCM Sampling - Round 2
  - $d$  2012 CPG CWCM Sampling - Round 3
  - $e$  2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

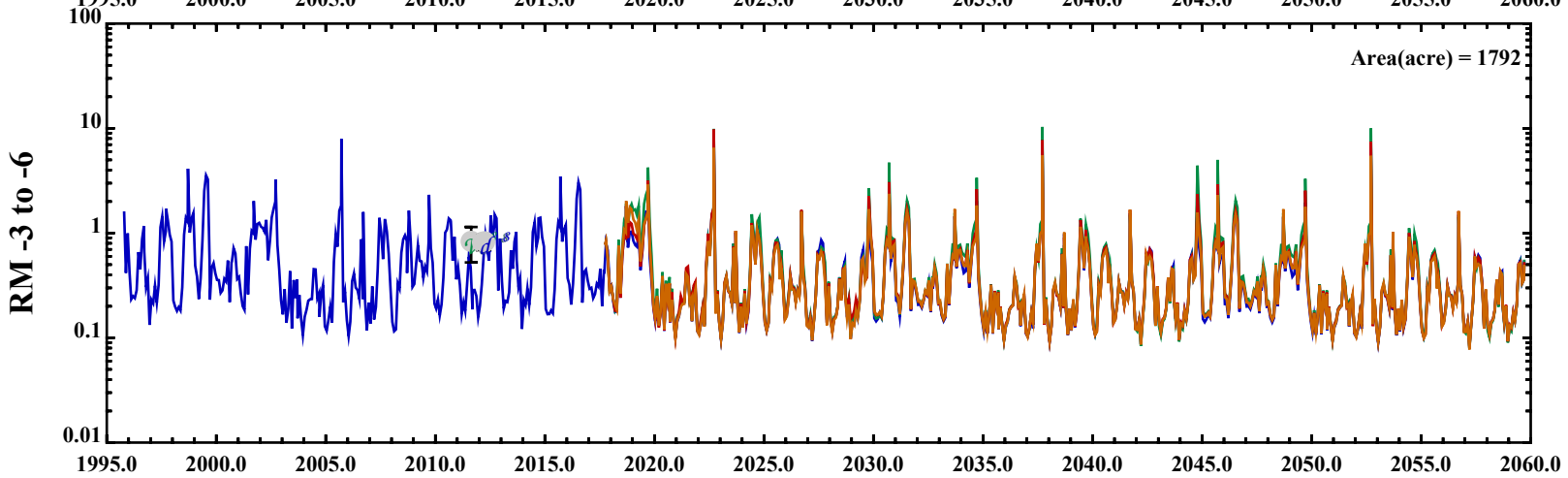
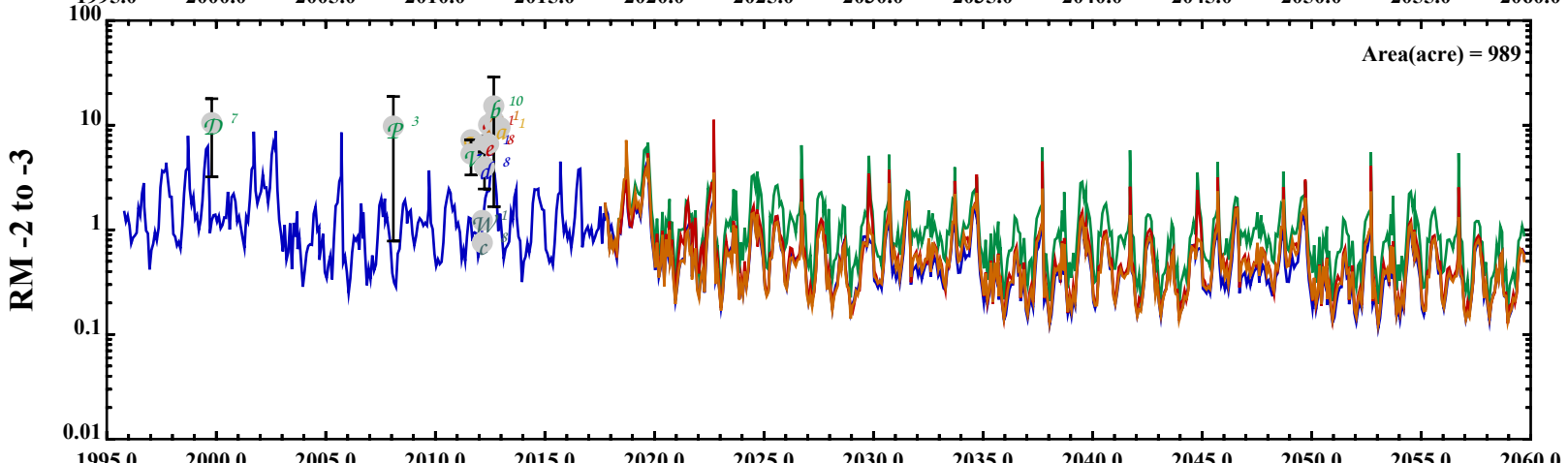
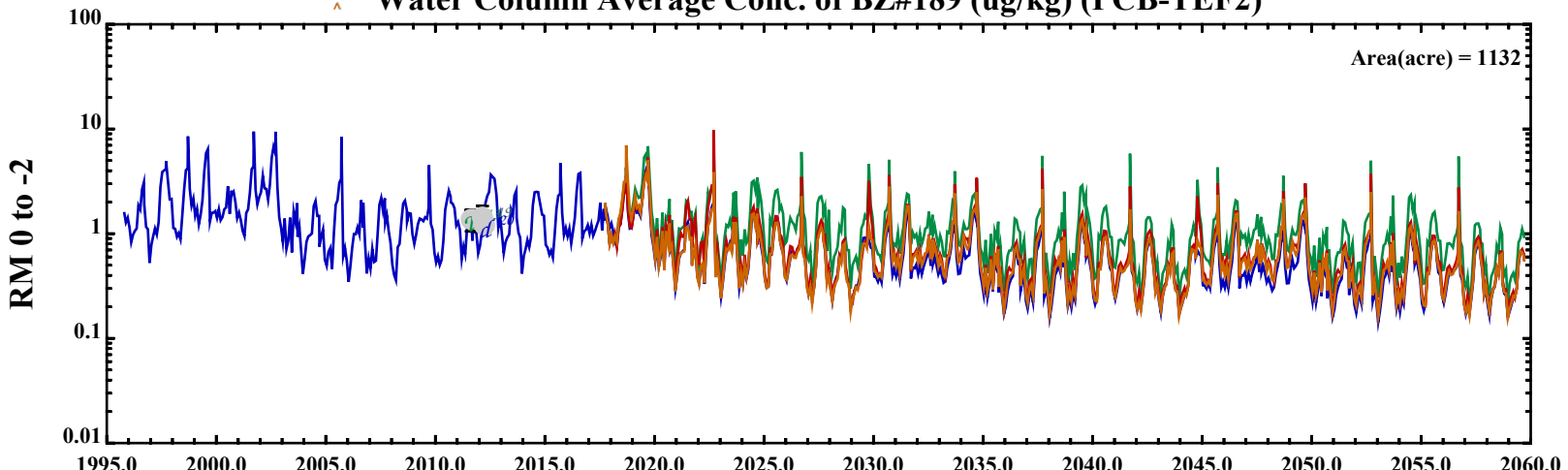


# Water Column Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
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  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)

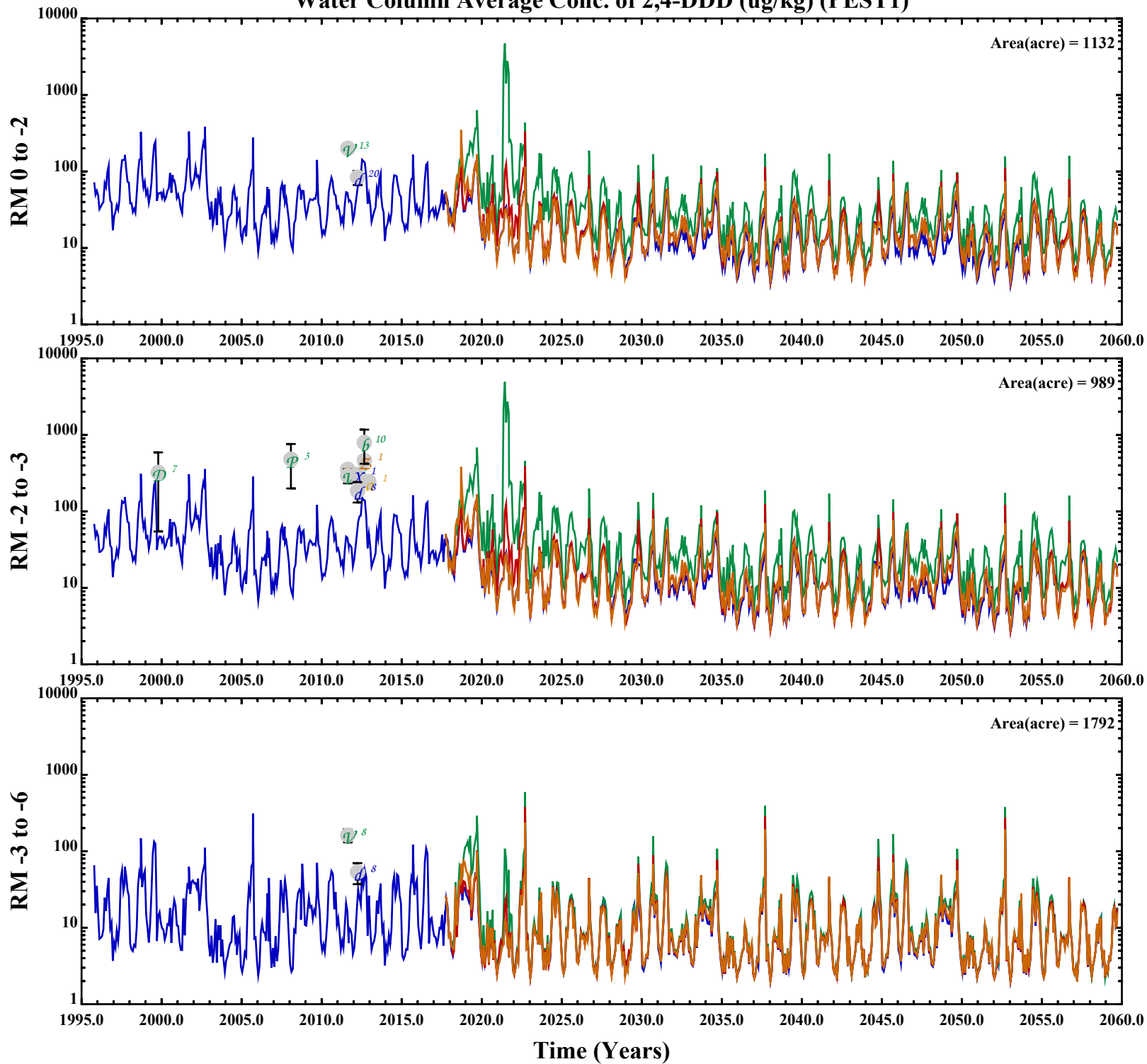


- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 NewarkBay ReachABCDBaselineSampling
- G 1999 USACE Drift Removal Monitoring
- H 1999-2006 Honeywell Intl Sampling
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- J 2005 Hydrodynamic Mooring
- K 2005 MPI SPMD Deployment
- L 2005 USEPA-MPI High Flow Water Column
- M 2005 USEPA-MPI Large Volume Study
- N 2005 USEPA-MPI Small Volume Water Column
- O 2005 USEPA-MPI Water Column Above RM 8.5
- P 2007 USEPA-MPI-EMBM Water Column Sample
- Q 2009 CPG LPR Water Column Monitoring DEC
- R 2010 CPG LPR-NB PWCM Field Measurements
- S 2010 CPG LPR-NB PWCM Sample Dataset
- T 2010 USEPA LBG-CDM PWCM Oversight
- U 2011 CDM Smith CWCM Sampling Data
- V 2011 CPG CWCM Sampling Data
- W 2012 CDM Smith CWCM Sampling - Round 2
- X 2012 CDM Smith CWCM Sampling - Round 3
- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

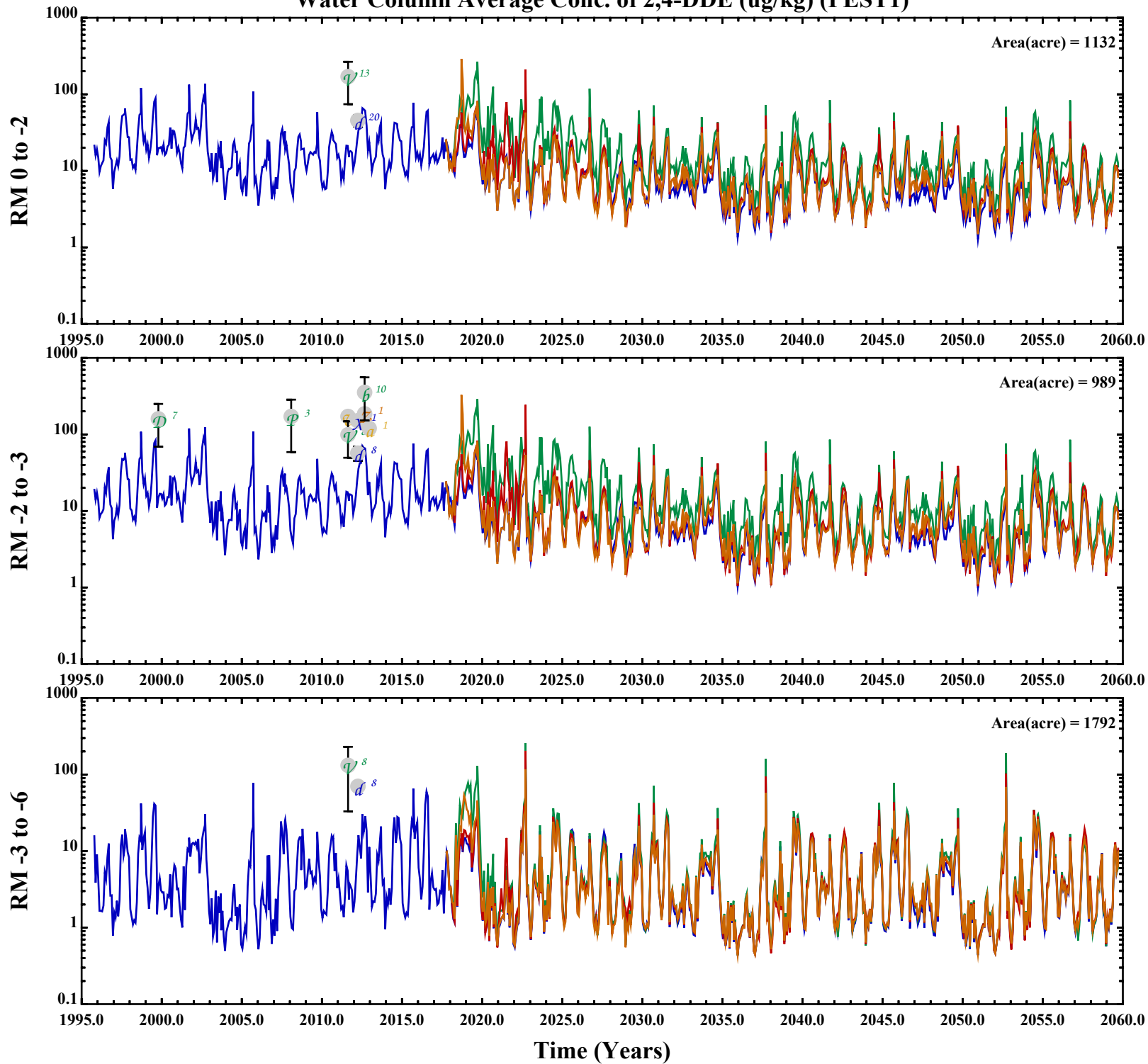
Time (Years)

# Water Column Average Conc. of 2,4-DDD (ug/kg) (PEST1)



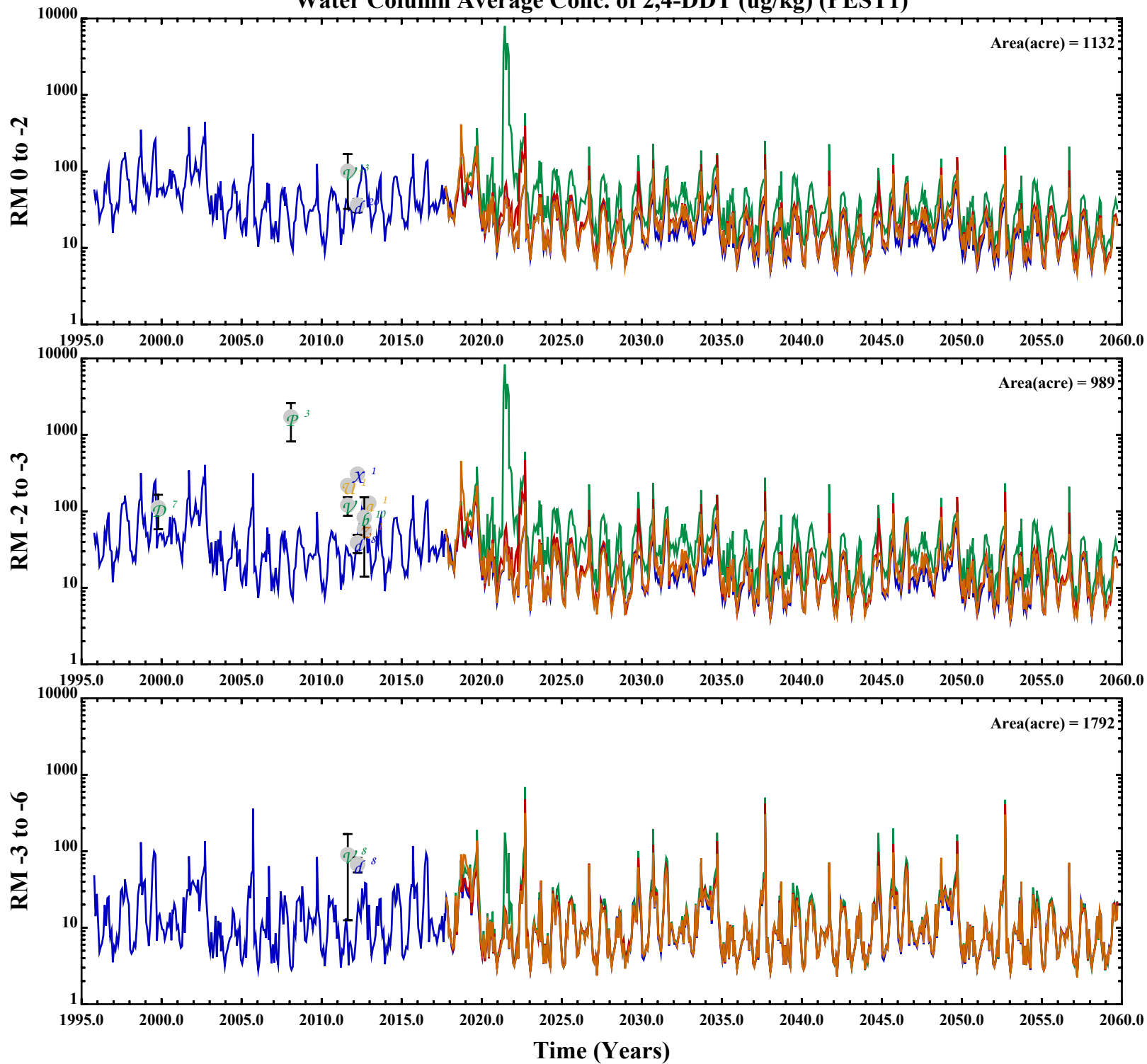
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
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  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 2,4-DDE (ug/kg) (PEST1)



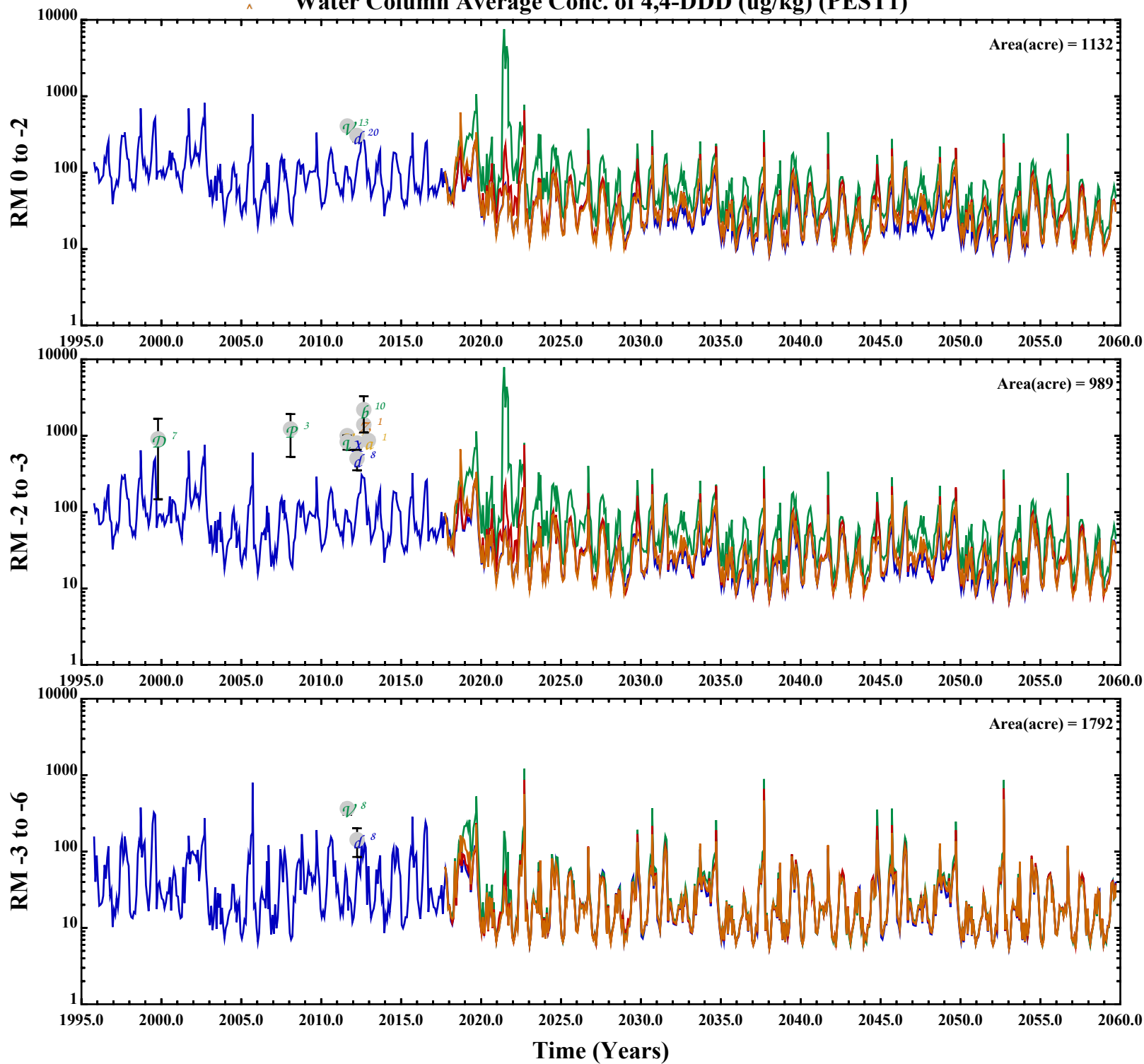
- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
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  - P 2007 USEPA-MPI-EMBM Water Column Sample
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  - S 2010 CPG LPR-NB PWCM Sample Dataset
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  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

# Water Column Average Conc. of 2,4-DDT (ug/kg) (PEST1)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
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  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
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  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

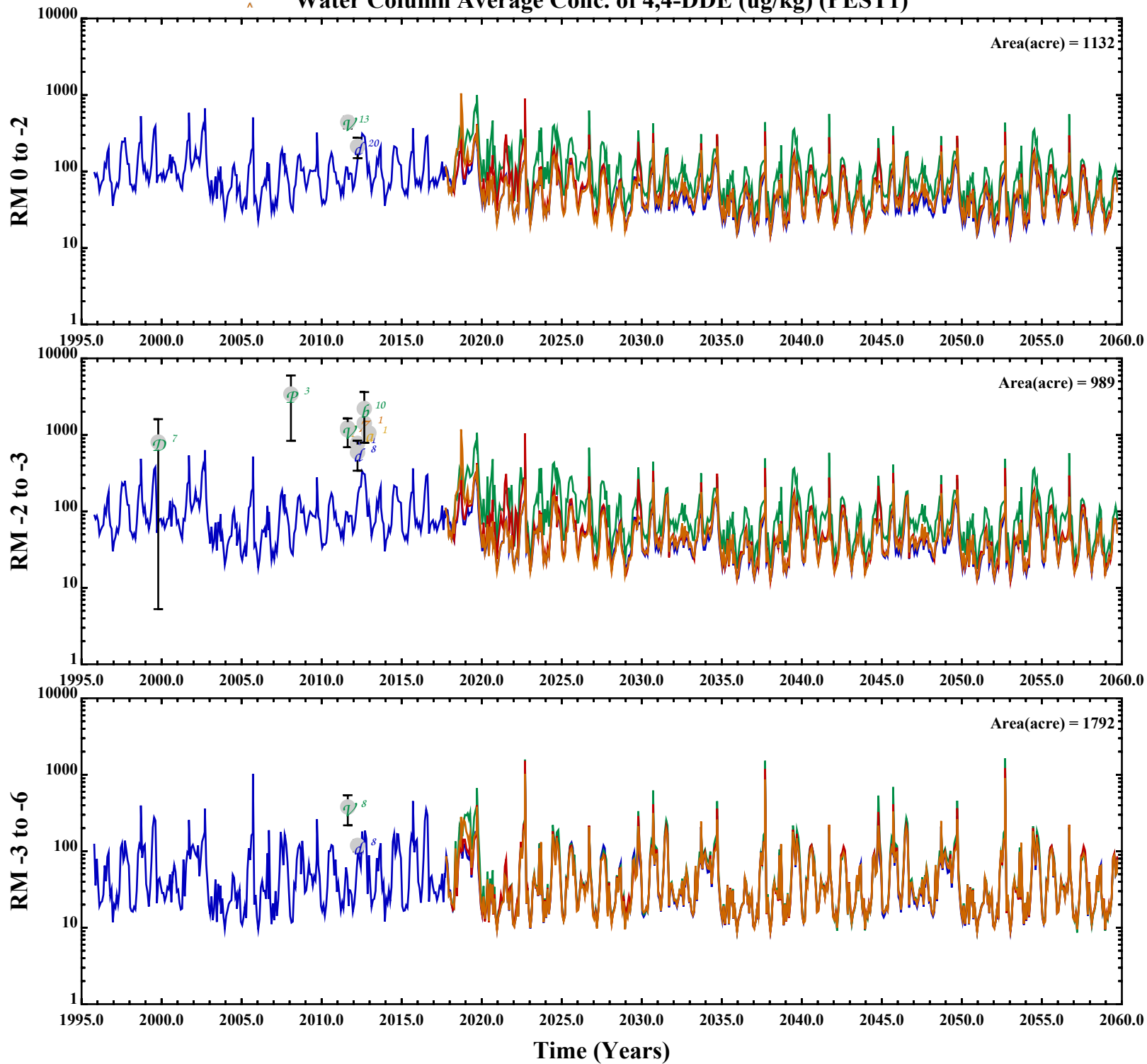
# Water Column Average Conc. of 4,4-DDD (ug/kg) (PEST1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- A 2012 CDM Smith CWCM Sampling Round - 6
- B 2012 CPG CWCM Sampling - Low Flow
- C 2012 CPG CWCM Sampling - Round 2
- D 2012 CPG CWCM Sampling - Round 3
- E 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

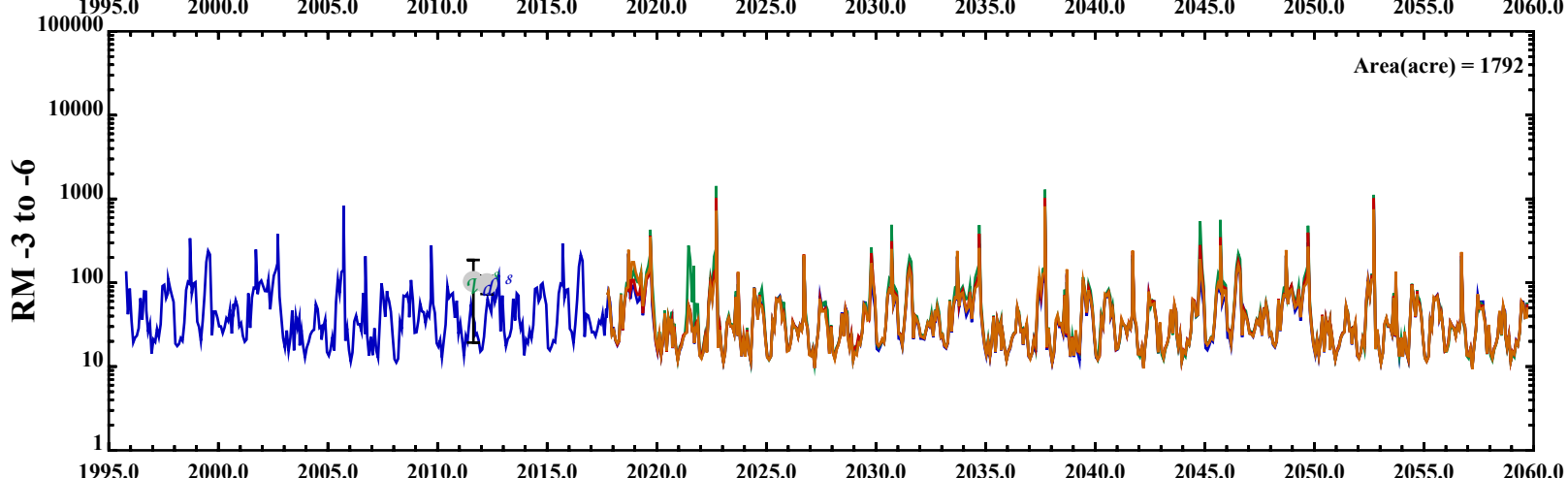
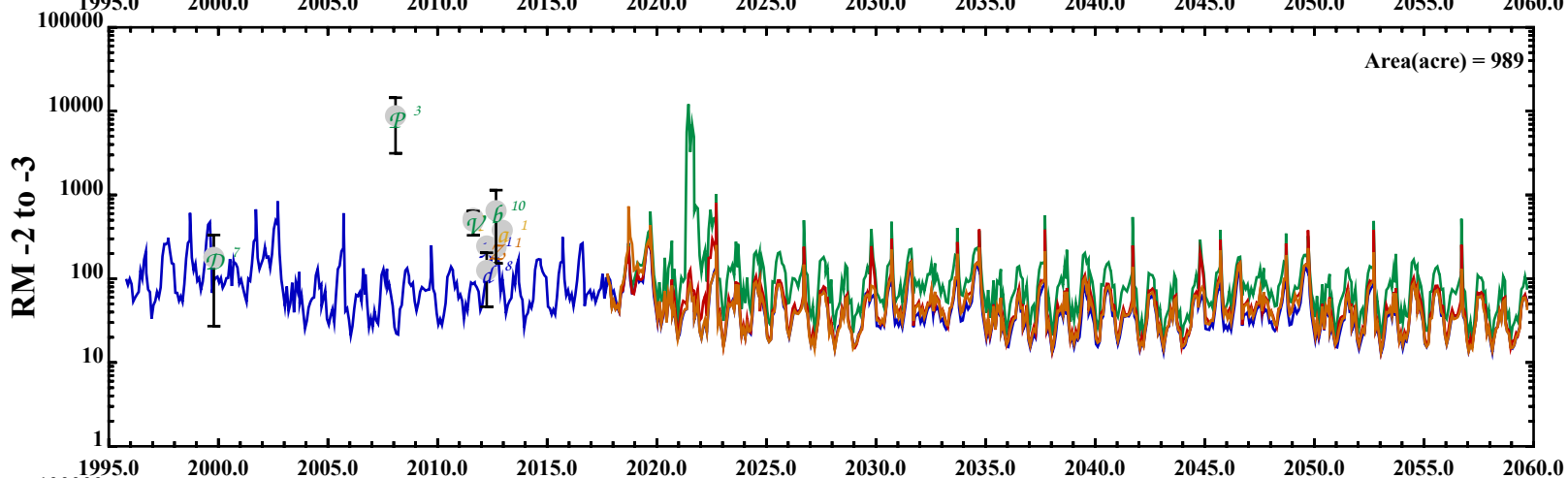
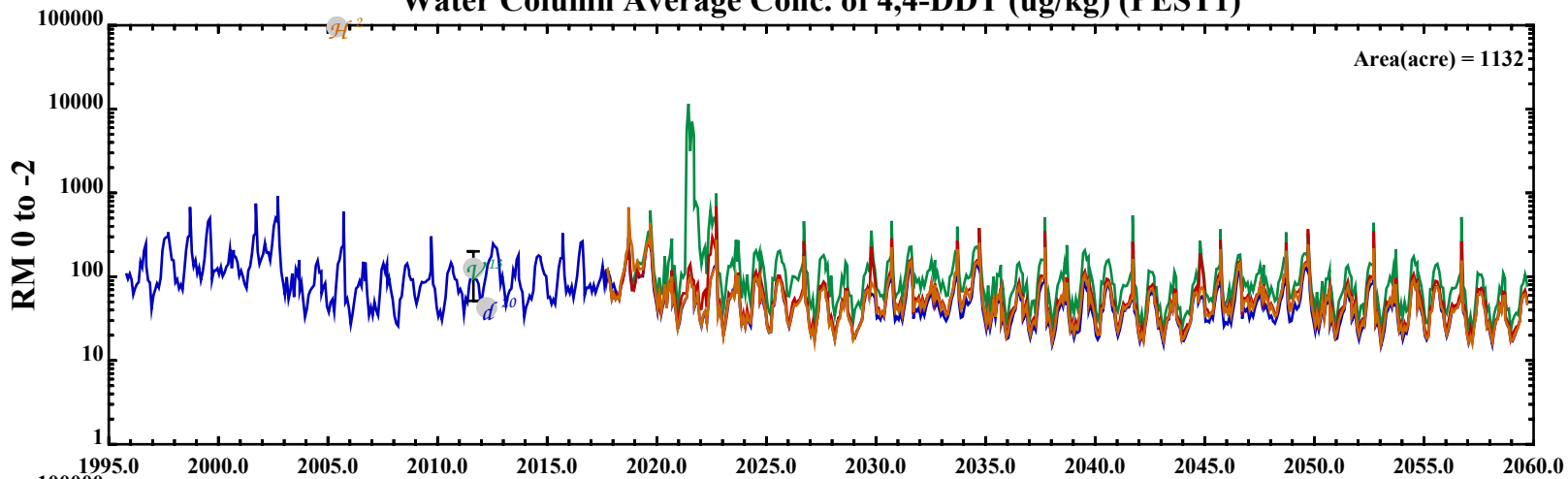
# Water Column Average Conc. of 4,4-DDE (ug/kg) (PEST1)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
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- T 2010 USEPA LBG-CDM PWCM Oversight
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- Z 2012 CDM Smith CWCM Sampling - Round 5
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- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

# Water Column Average Conc. of 4,4-DDT (ug/kg) (PEST1)



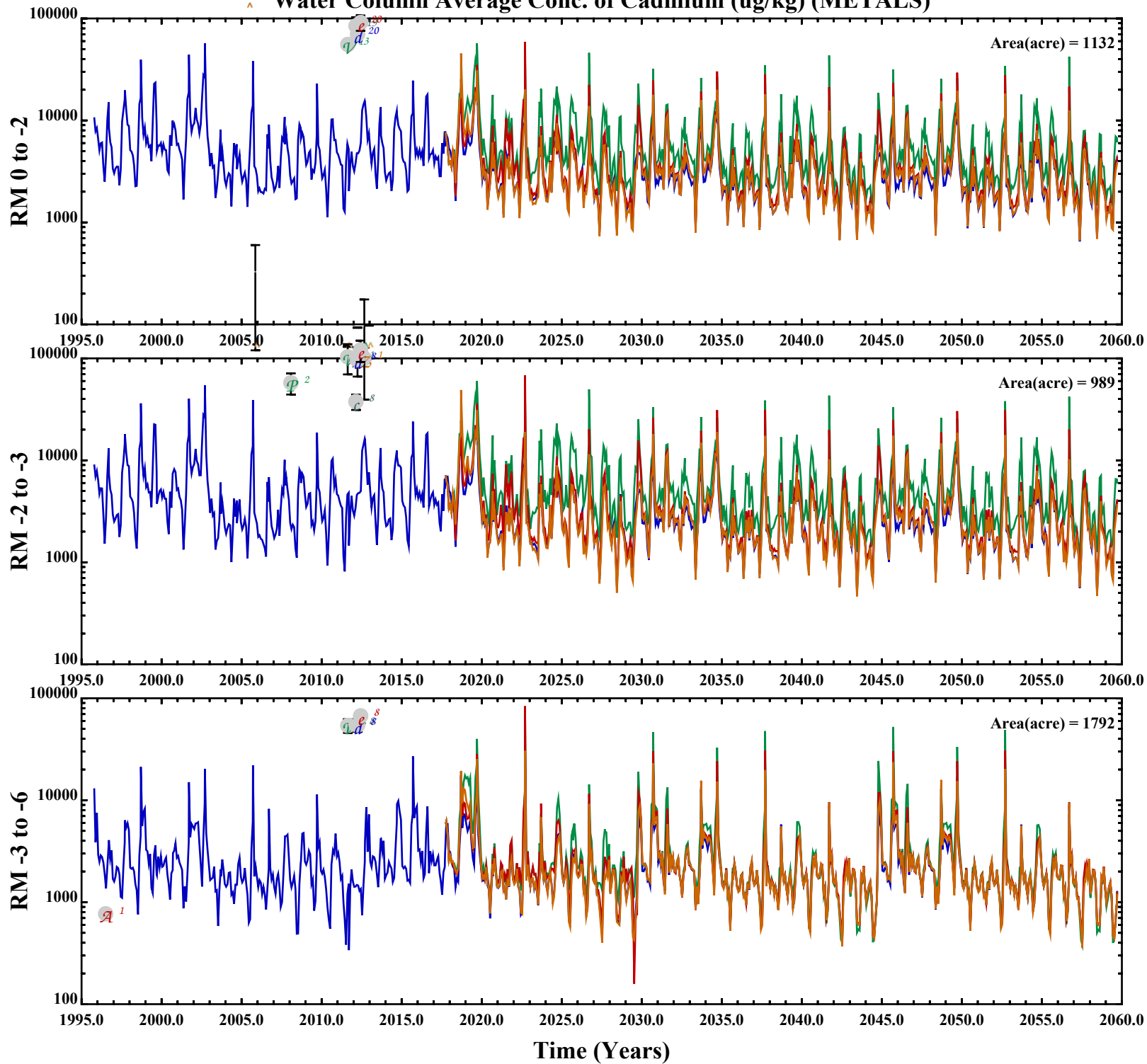
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- B* 1995-96 Passaic Study RI/FS Sed Mobility
- C* 1997 Outfall Sampling Program
- D* 1998-2001 CARP Database
- E* 1999 Newark Bay Reach A Monitoring
- F* 1999 NewarkBay ReachABCDBaselineSampling
- G* 1999 USACE Drift Removal Monitoring
- H* 1999-2006 Honeywell Intl Sampling
- I* 2000 Toxicity Identification Evaluation
- J* 2005 Hydrodynamic Mooring
- K* 2005 MPI SPMD Deployment
- L* 2005 USEPA-MPI High Flow Water Column
- M* 2005 USEPA-MPI Large Volume Study
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- P* 2007 USEPA-MPI-EMBM Water Column Sample
- Q* 2009 CPG LPR Water Column Monitoring DEC
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- W* 2012 CDM Smith CWCM Sampling - Round 2
- X* 2012 CDM Smith CWCM Sampling - Round 3
- Y* 2012 CDM Smith CWCM Sampling - Round 4
- Z* 2012 CDM Smith CWCM Sampling - Round 5
- a* 2012 CDM Smith CWCM Sampling Round - 6
- b* 2012 CPG CWCM Sampling - Low Flow
- c* 2012 CPG CWCM Sampling - Round 2
- d* 2012 CPG CWCM Sampling - Round 3
- e* 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

Time (Years)



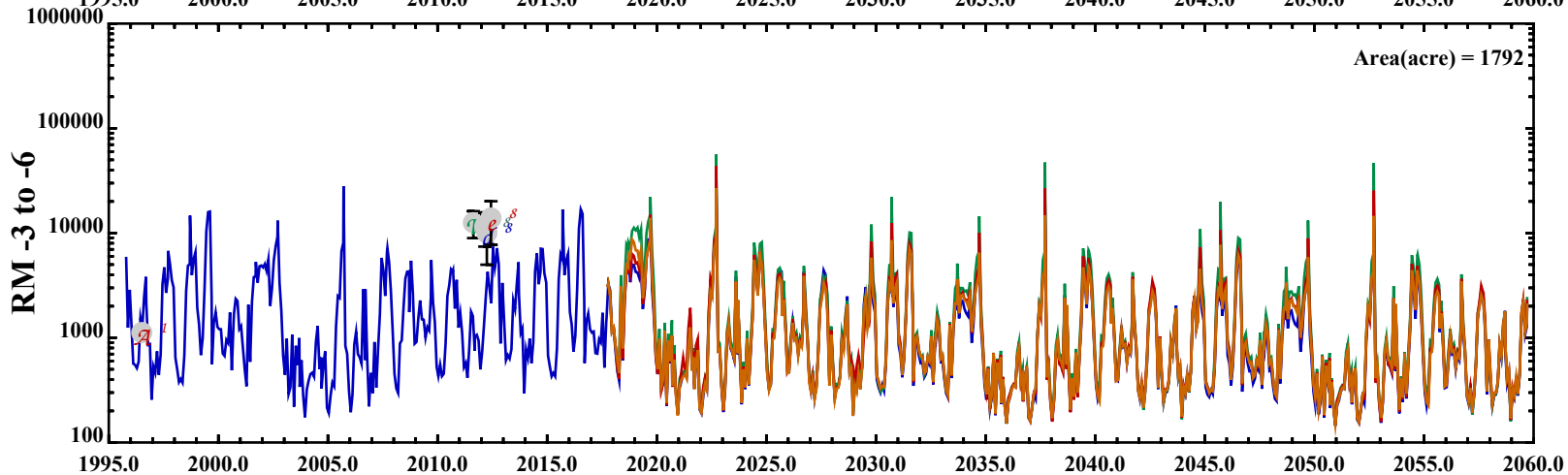
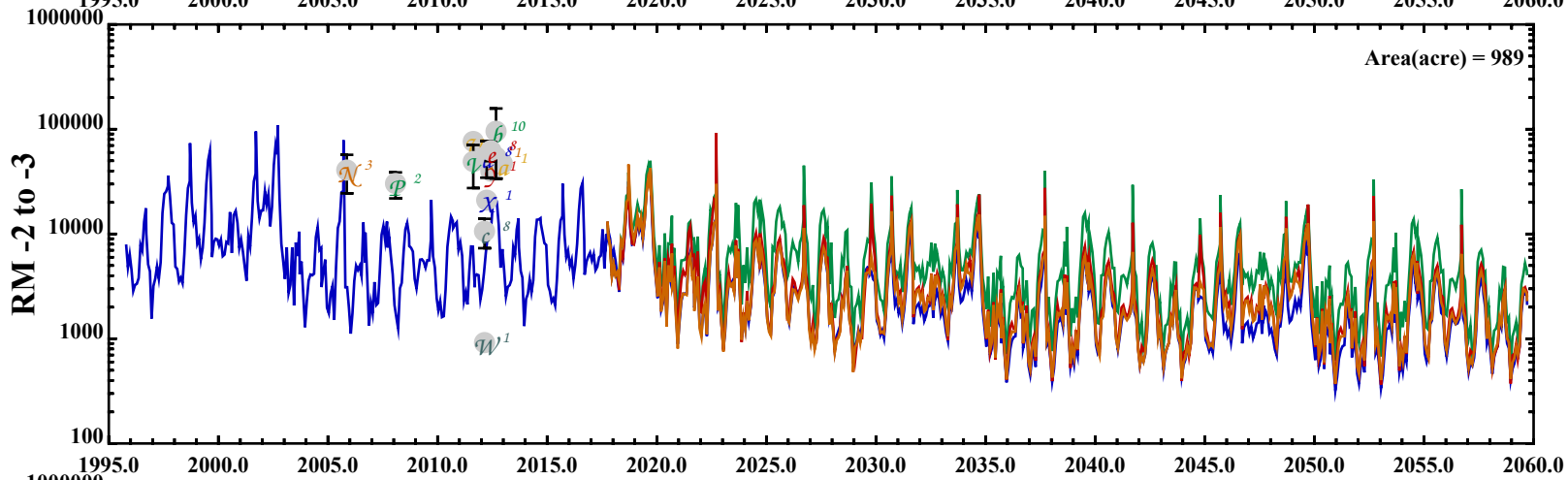
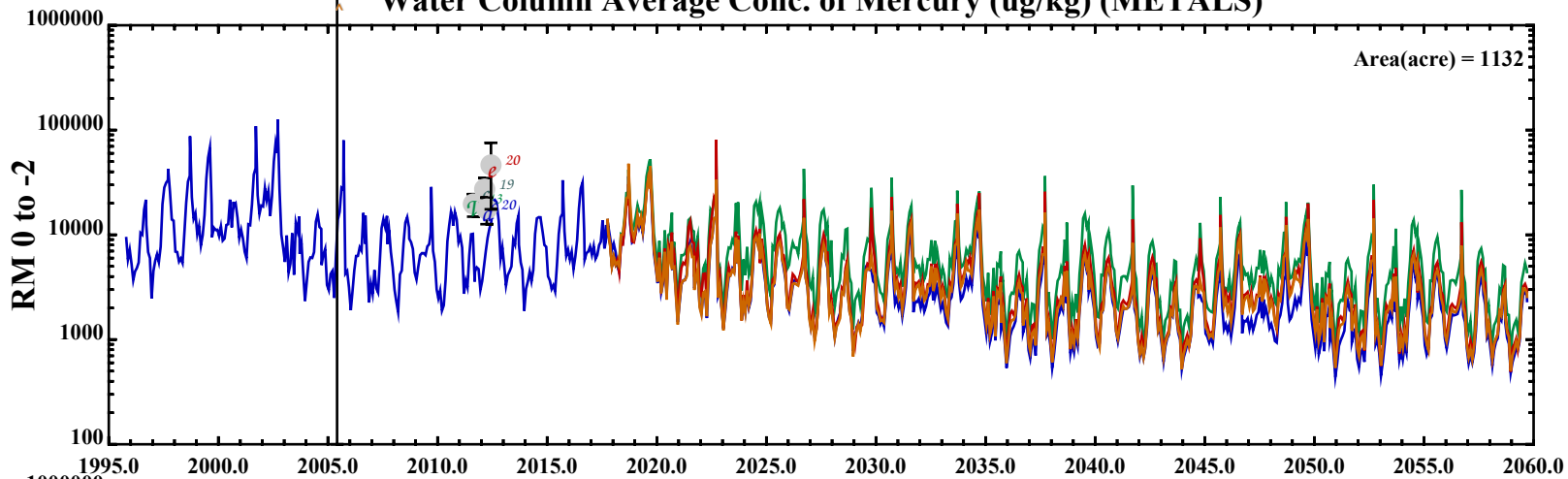
# Water Column Average Conc. of Cadmium (ug/kg) (METALS)



- A 1993-1997 USACE - DMDAT
- B 1995-96 Passaic Study RI/FS Sed Mobility
- C 1997 Outfall Sampling Program
- D 1998-2001 CARP Database
- E 1999 Newark Bay Reach A Monitoring
- F 1999 Newark Bay Reach ABCD Baseline Sampling
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- P 2007 USEPA-MPI-EMBM Water Column Sample
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- Y 2012 CDM Smith CWCM Sampling - Round 4
- Z 2012 CDM Smith CWCM Sampling - Round 5
- a 2012 CDM Smith CWCM Sampling Round - 6
- b 2012 CPG CWCM Sampling - Low Flow
- c 2012 CPG CWCM Sampling - Round 2
- d 2012 CPG CWCM Sampling - Round 3
- e 2012 CPG CWCM Sampling - Round 4

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

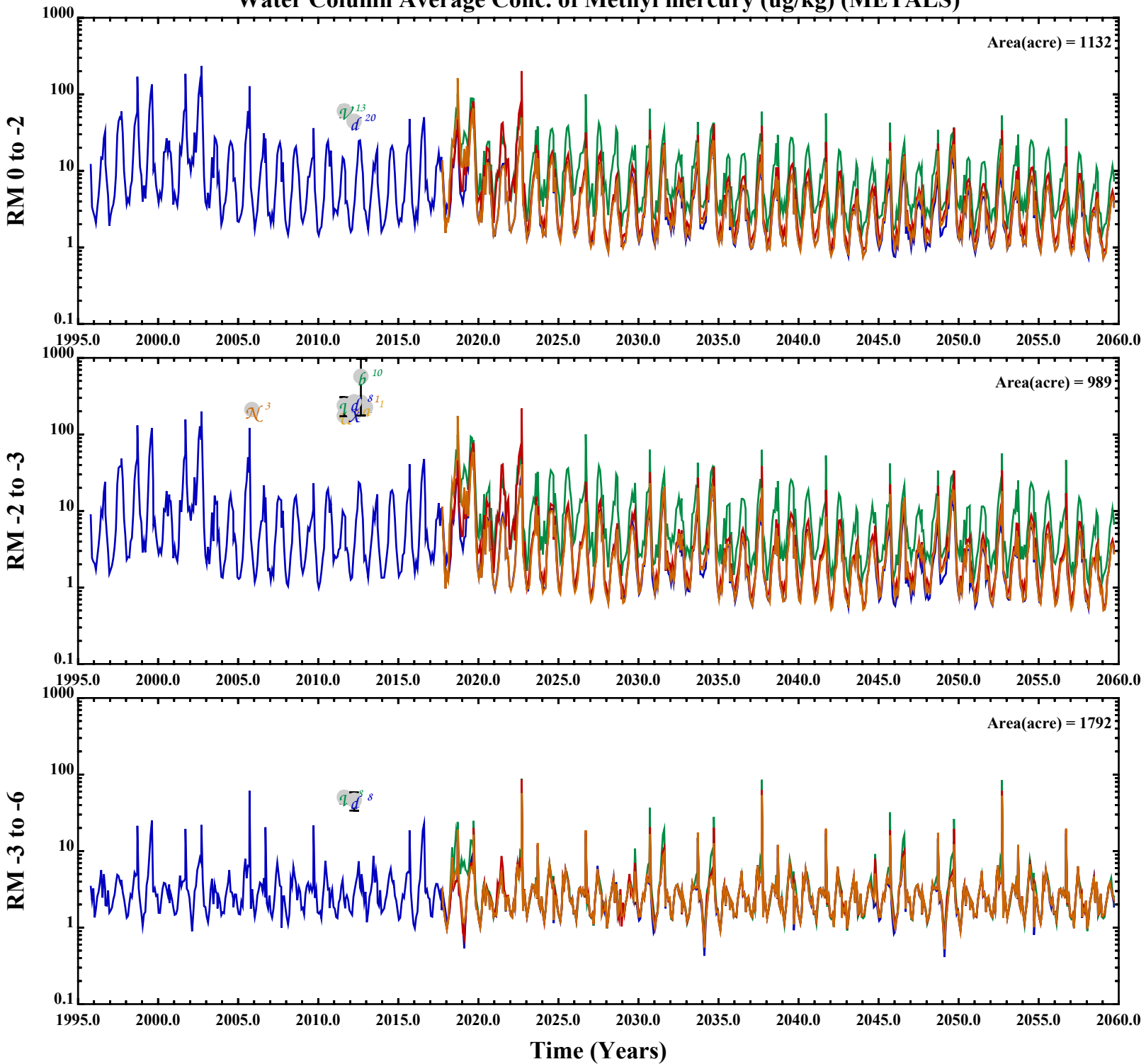
# Water Column Average Conc. of Mercury (ug/kg) (METALS)



- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 Newark Bay Reach ABCD Baseline Sampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
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  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
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  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

Time (Years)

# Water Column Average Conc. of Methyl mercury (ug/kg) (METALS)

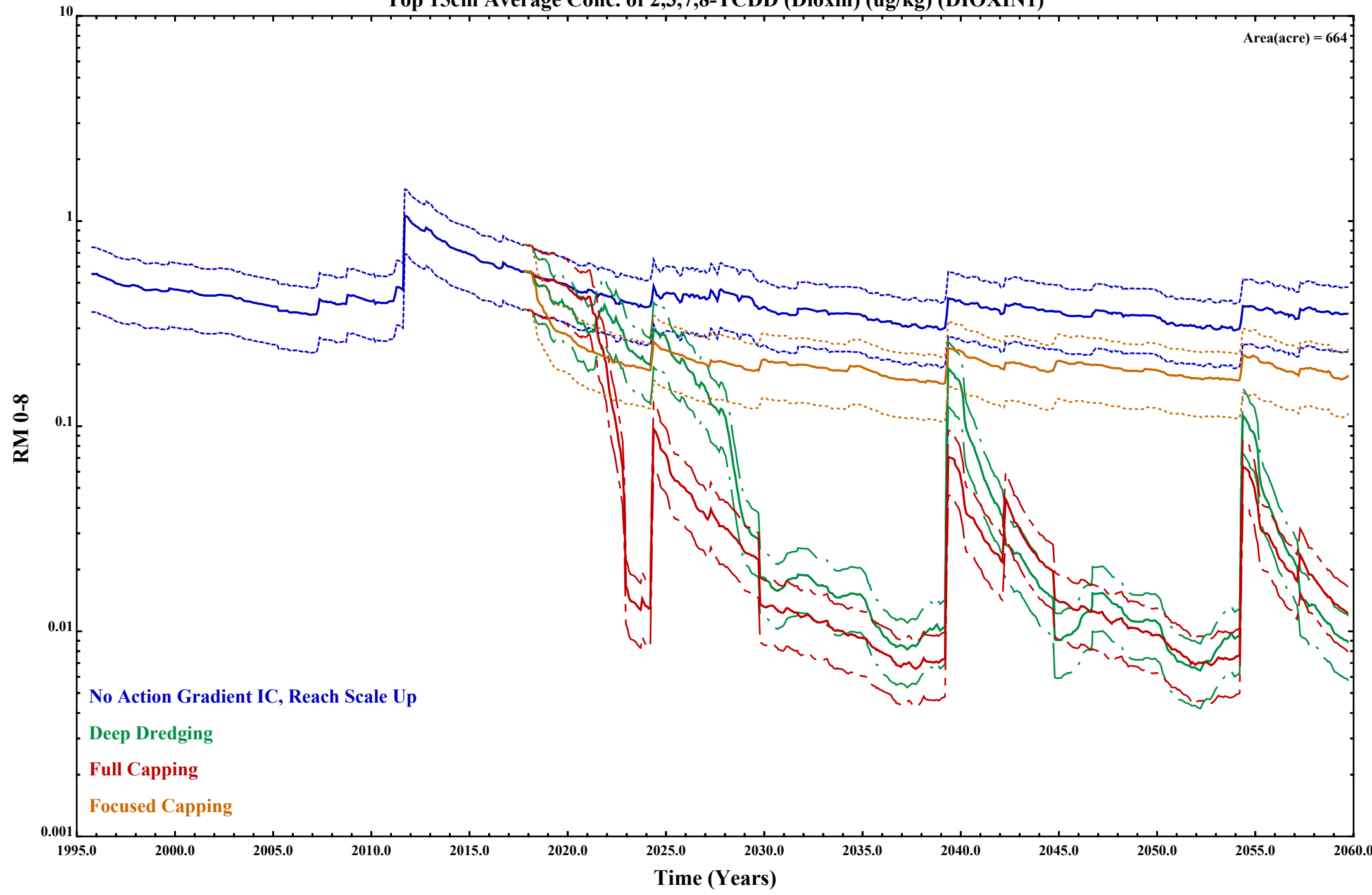


- A 1993-1997 USACE - DMDAT
  - B 1995-96 Passaic Study RI/FS Sed Mobility
  - C 1997 Outfall Sampling Program
  - D 1998-2001 CARP Database
  - E 1999 Newark Bay Reach A Monitoring
  - F 1999 NewarkBay ReachABCDBaselineSampling
  - G 1999 USACE Drift Removal Monitoring
  - H 1999-2006 Honeywell Intl Sampling
  - I 2000 Toxicity Identification Evaluation
  - J 2005 Hydrodynamic Mooring
  - K 2005 MPI SPMD Deployment
  - L 2005 USEPA-MPI High Flow Water Column
  - M 2005 USEPA-MPI Large Volume Study
  - N 2005 USEPA-MPI Small Volume Water Column
  - O 2005 USEPA-MPI Water Column Above RM 8.5
  - P 2007 USEPA-MPI-EMBM Water Column Sample
  - Q 2009 CPG LPR Water Column Monitoring DEC
  - R 2010 CPG LPR-NB PWCM Field Measurements
  - S 2010 CPG LPR-NB PWCM Sample Dataset
  - T 2010 USEPA LBG-CDM PWCM Oversight
  - U 2011 CDM Smith CWCM Sampling Data
  - V 2011 CPG CWCM Sampling Data
  - W 2012 CDM Smith CWCM Sampling - Round 2
  - X 2012 CDM Smith CWCM Sampling - Round 3
  - Y 2012 CDM Smith CWCM Sampling - Round 4
  - Z 2012 CDM Smith CWCM Sampling - Round 5
  - a 2012 CDM Smith CWCM Sampling Round - 6
  - b 2012 CPG CWCM Sampling - Low Flow
  - c 2012 CPG CWCM Sampling - Round 2
  - d 2012 CPG CWCM Sampling - Round 3
  - e 2012 CPG CWCM Sampling - Round 4
- 
- No Action Gradient IC, Reach Scale Up
  - Deep Dredging
  - Full Capping
  - Focused Capping

**Attachment F**  
**Trajectories with Uncertainty Bounds**

# Top 15cm Average Conc. of 2,3,7,8-TCDD (Dioxin) (ug/kg) (DIOXIN1)

Area(acre) = 664



No Action Gradient IC, Reach Scale Up

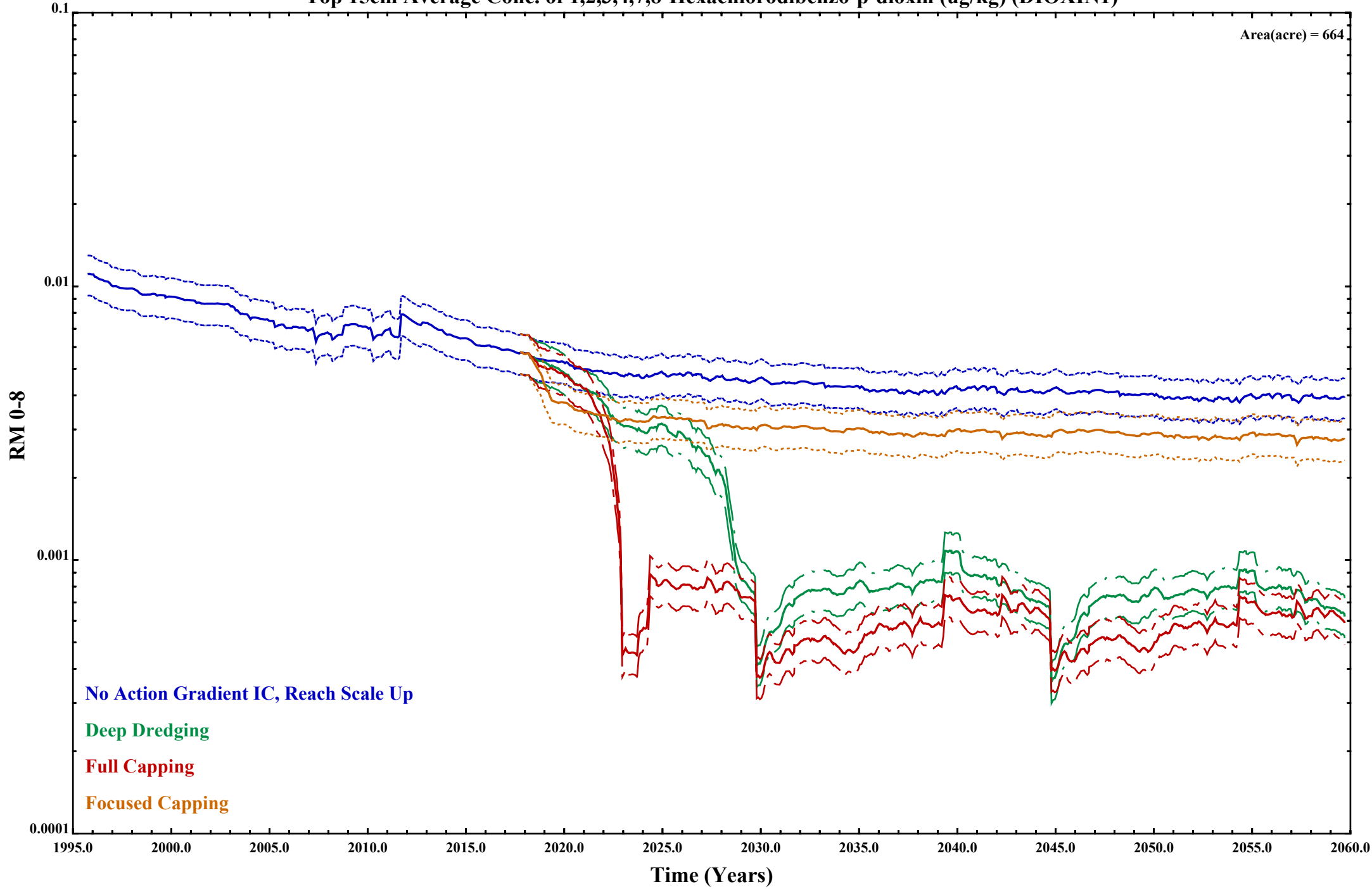
Deep Dredging

Full Capping

Focused Capping

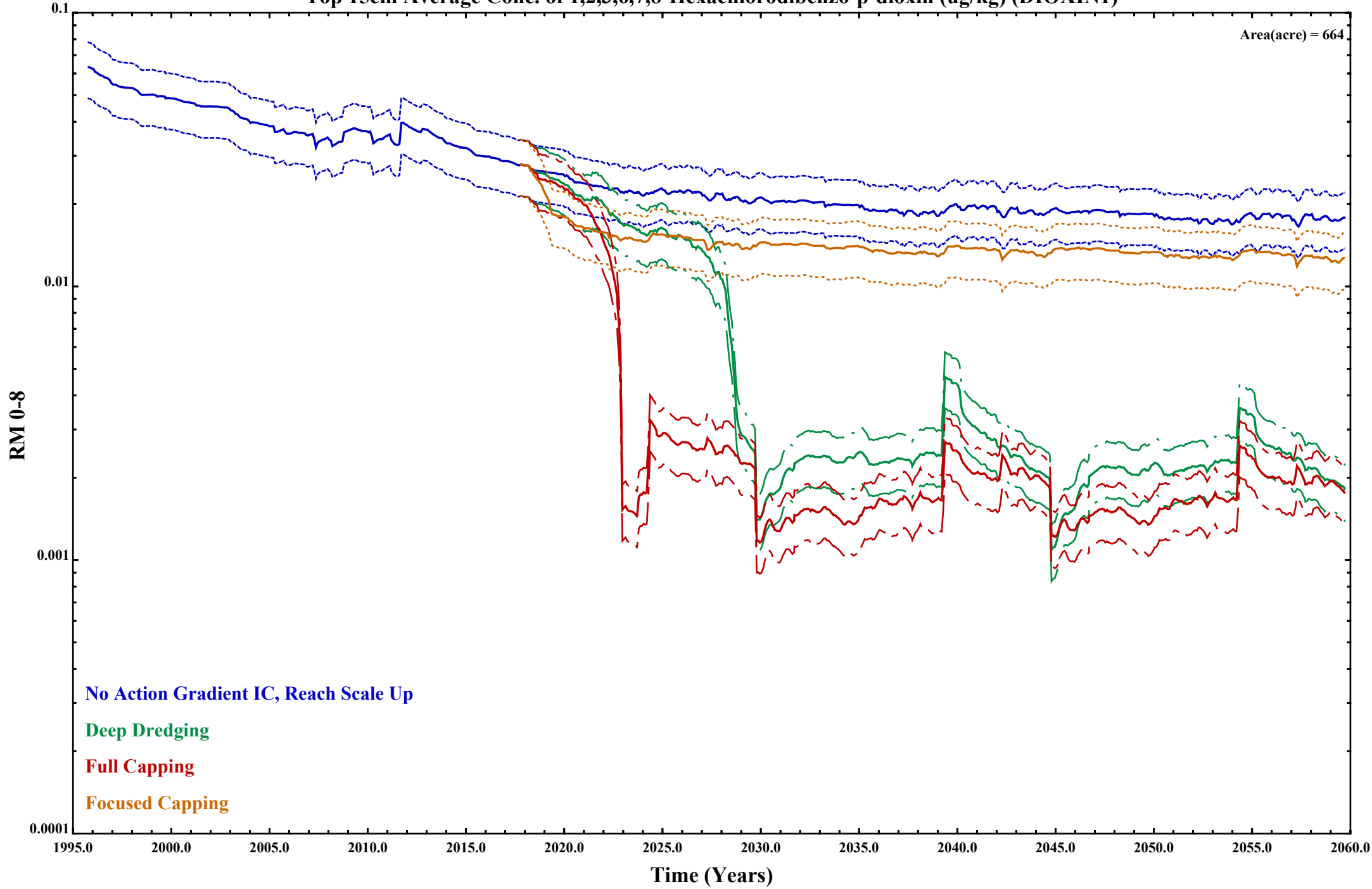
# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

Area(acre) = 664



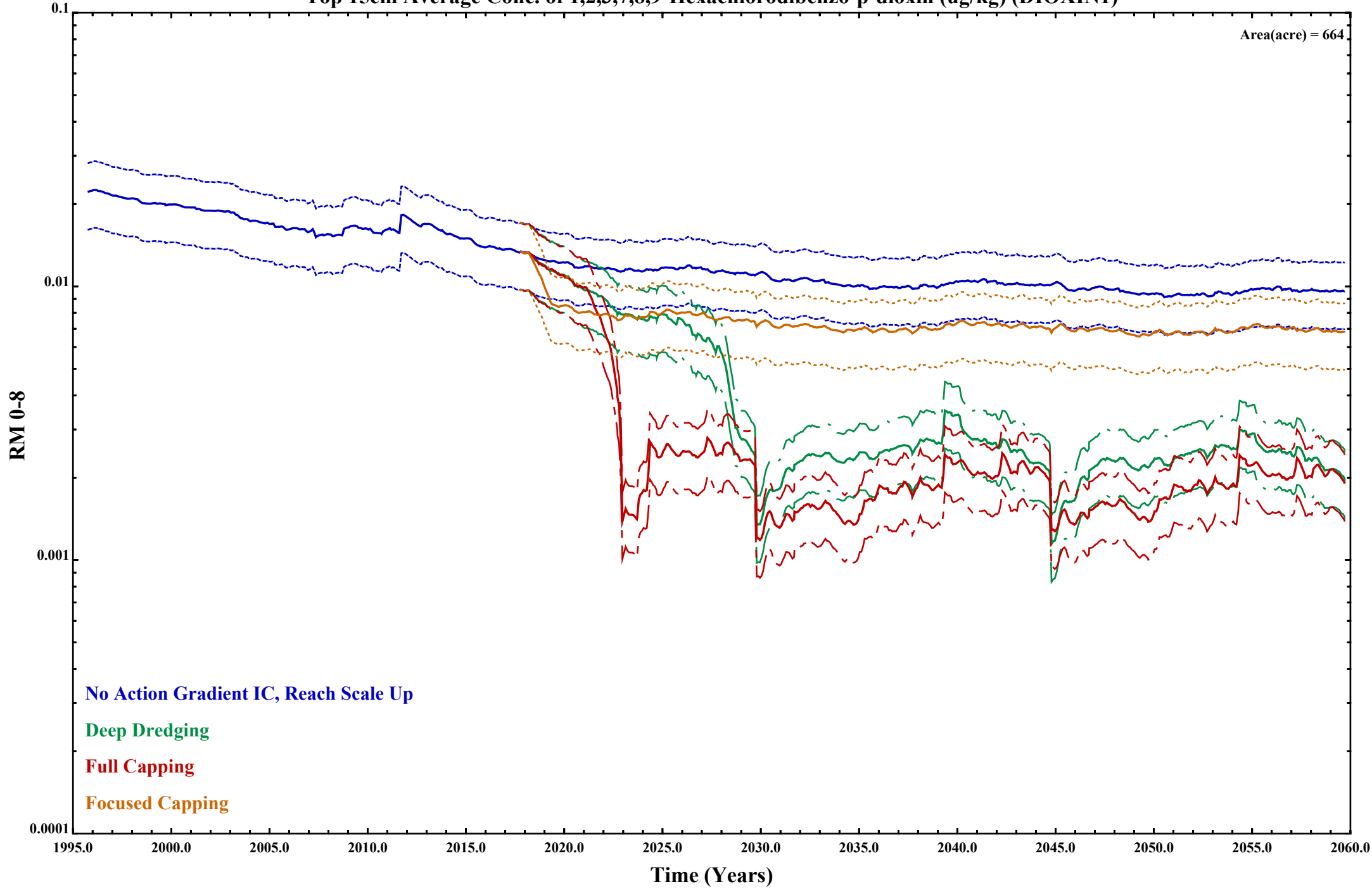
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

Area(acre) = 664



# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

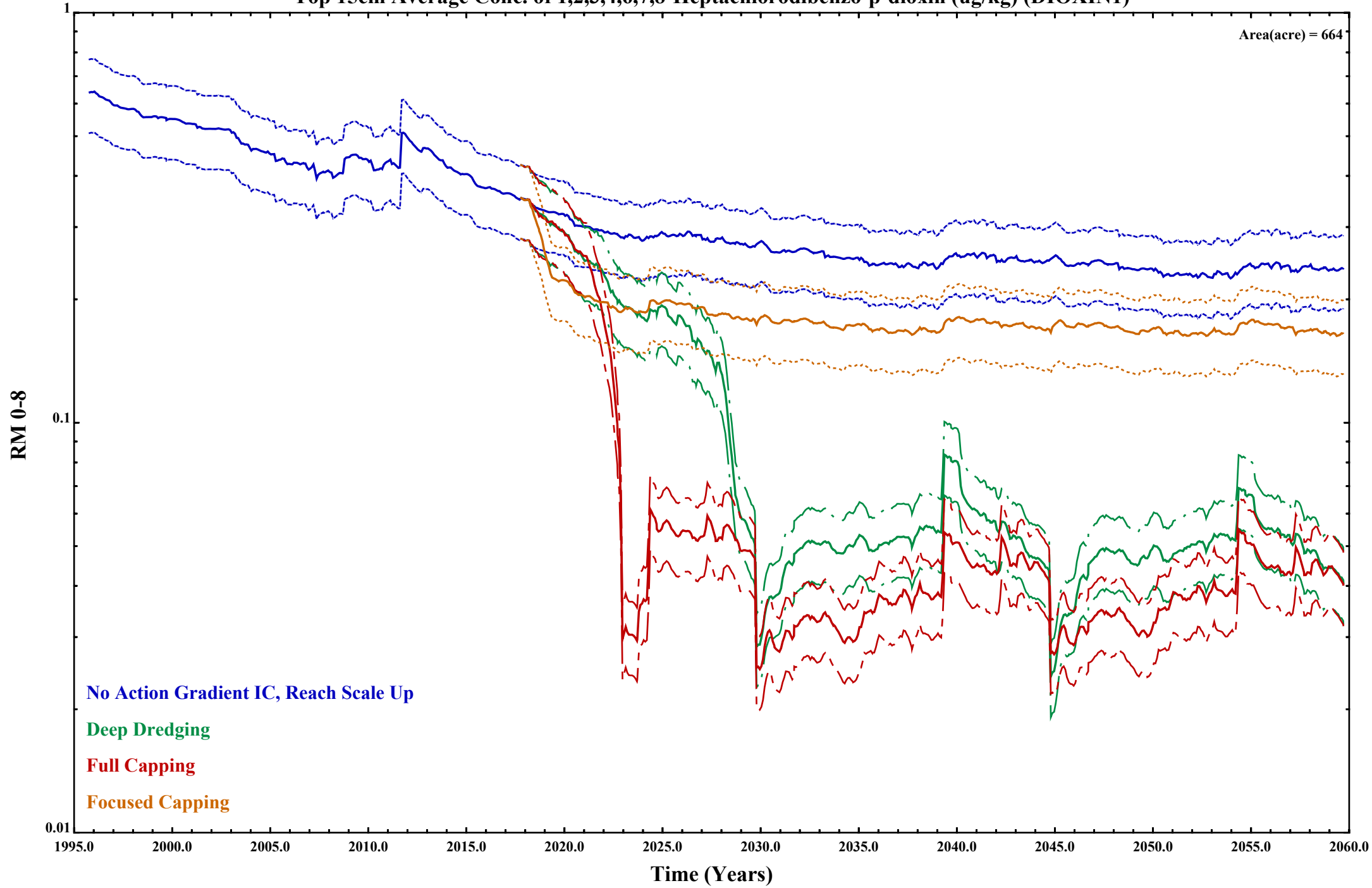
Area(acre) = 664





# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (ug/kg) (DIOXIN1)

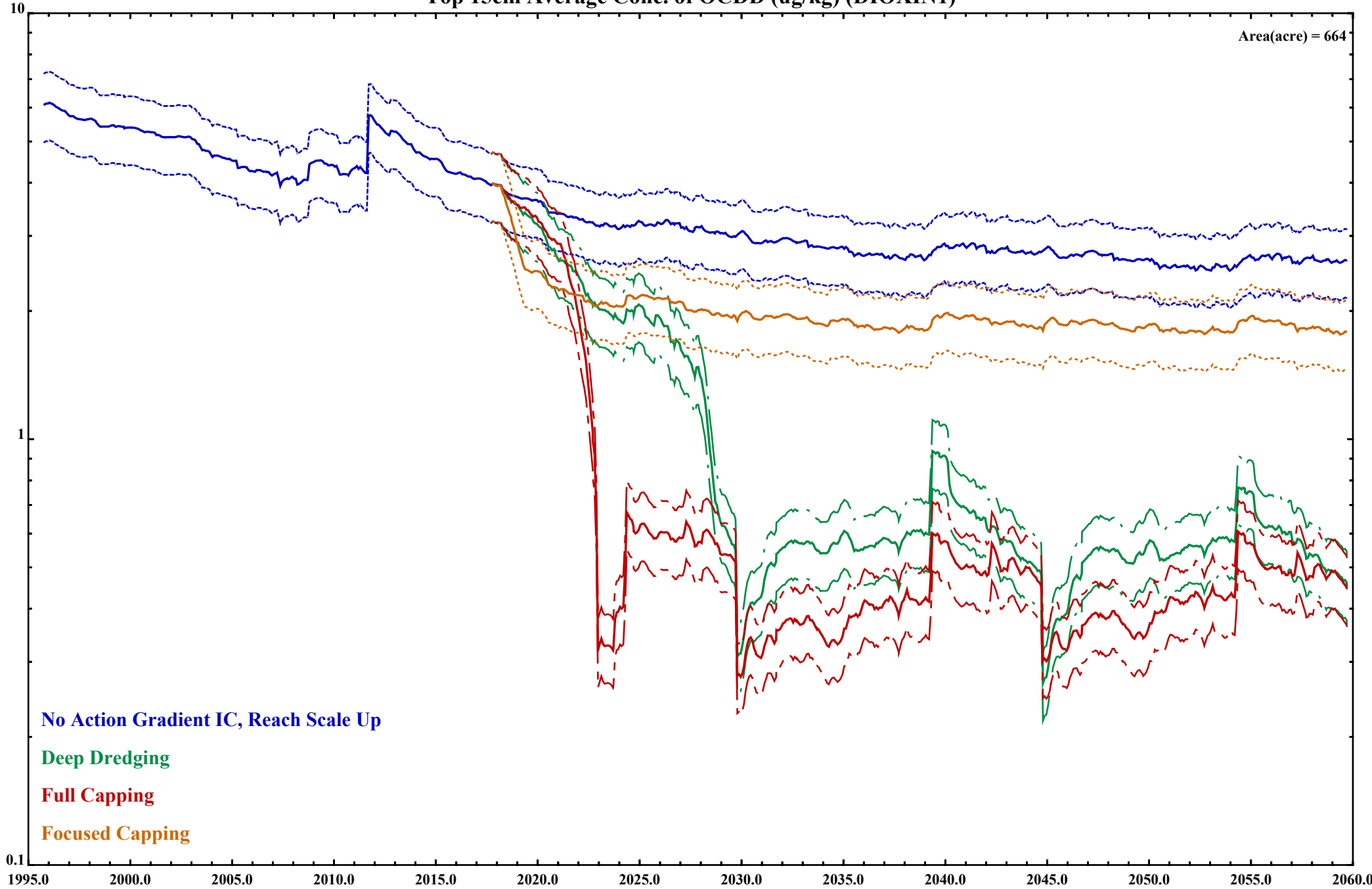
Area(acre) = 664



# Top 15cm Average Conc. of OCDD (ug/kg) (DIOXIN1)

Area(acre) = 664

RM 0-8



No Action Gradient IC, Reach Scale Up

Deep Dredging

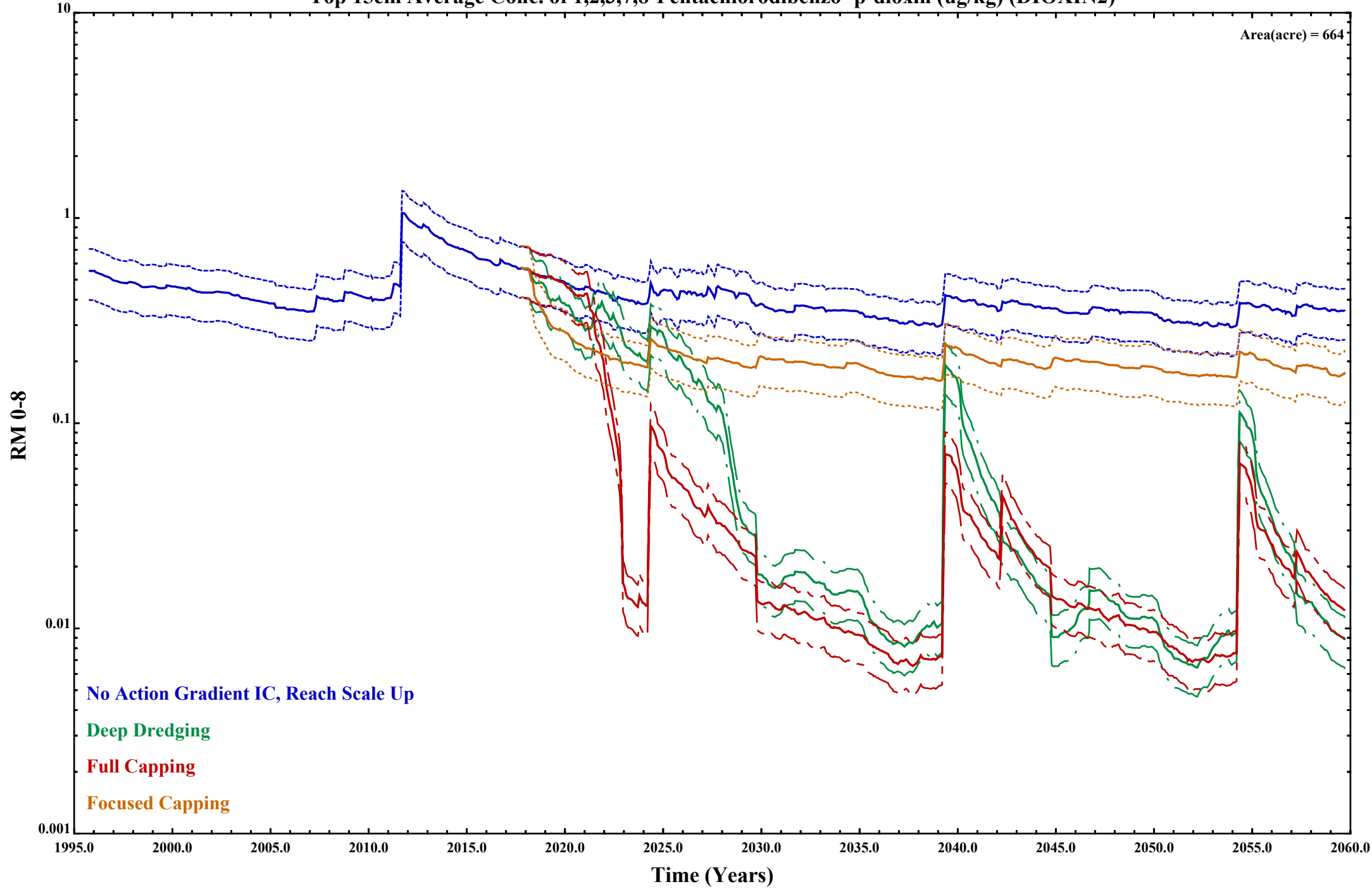
Full Capping

Focused Capping

Time (Years)

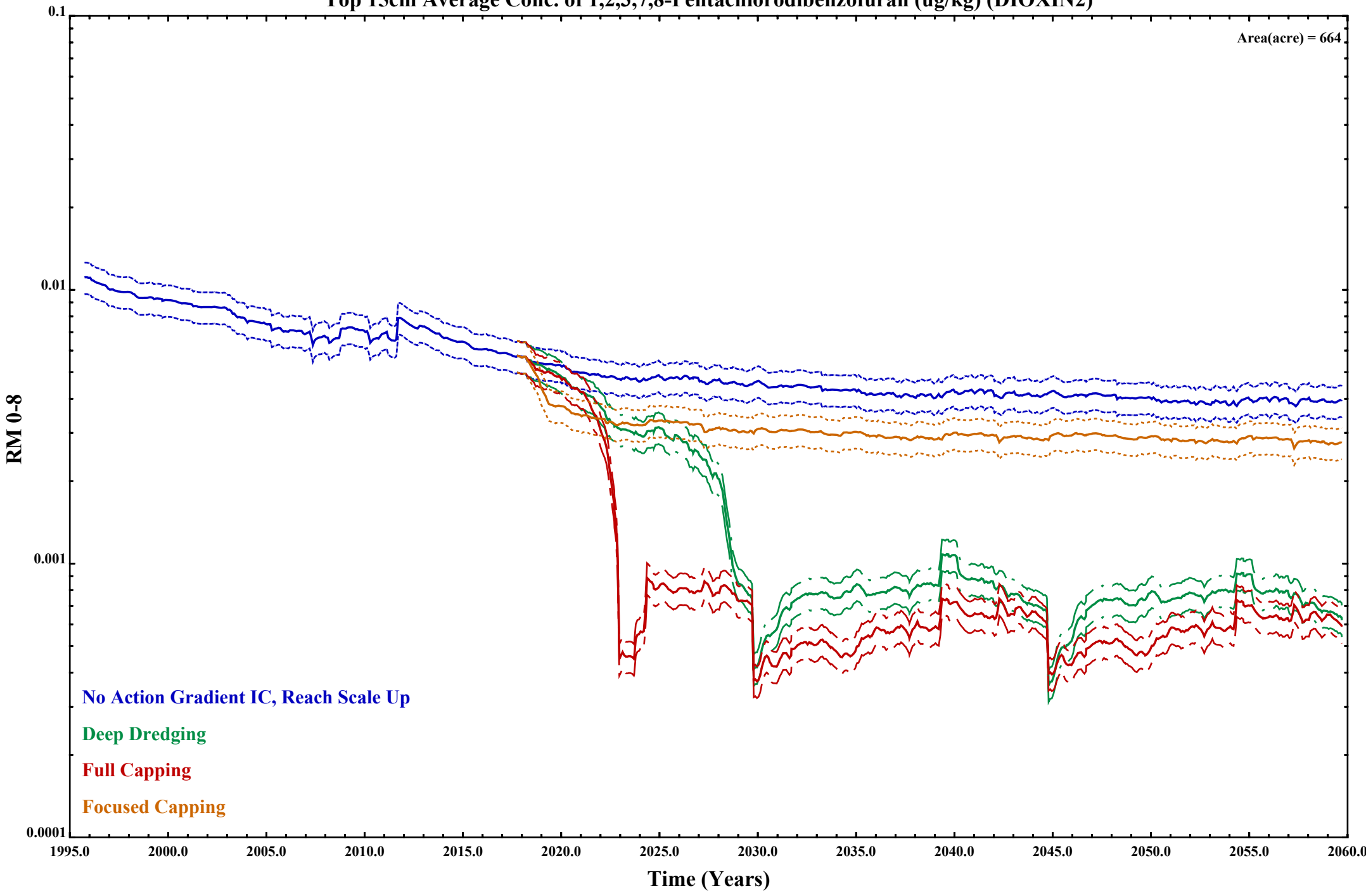
# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzo- p-dioxin (ug/kg) (DIOXIN2)

Area(acre) = 664



# Top 15cm Average Conc. of 1,2,3,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN2)

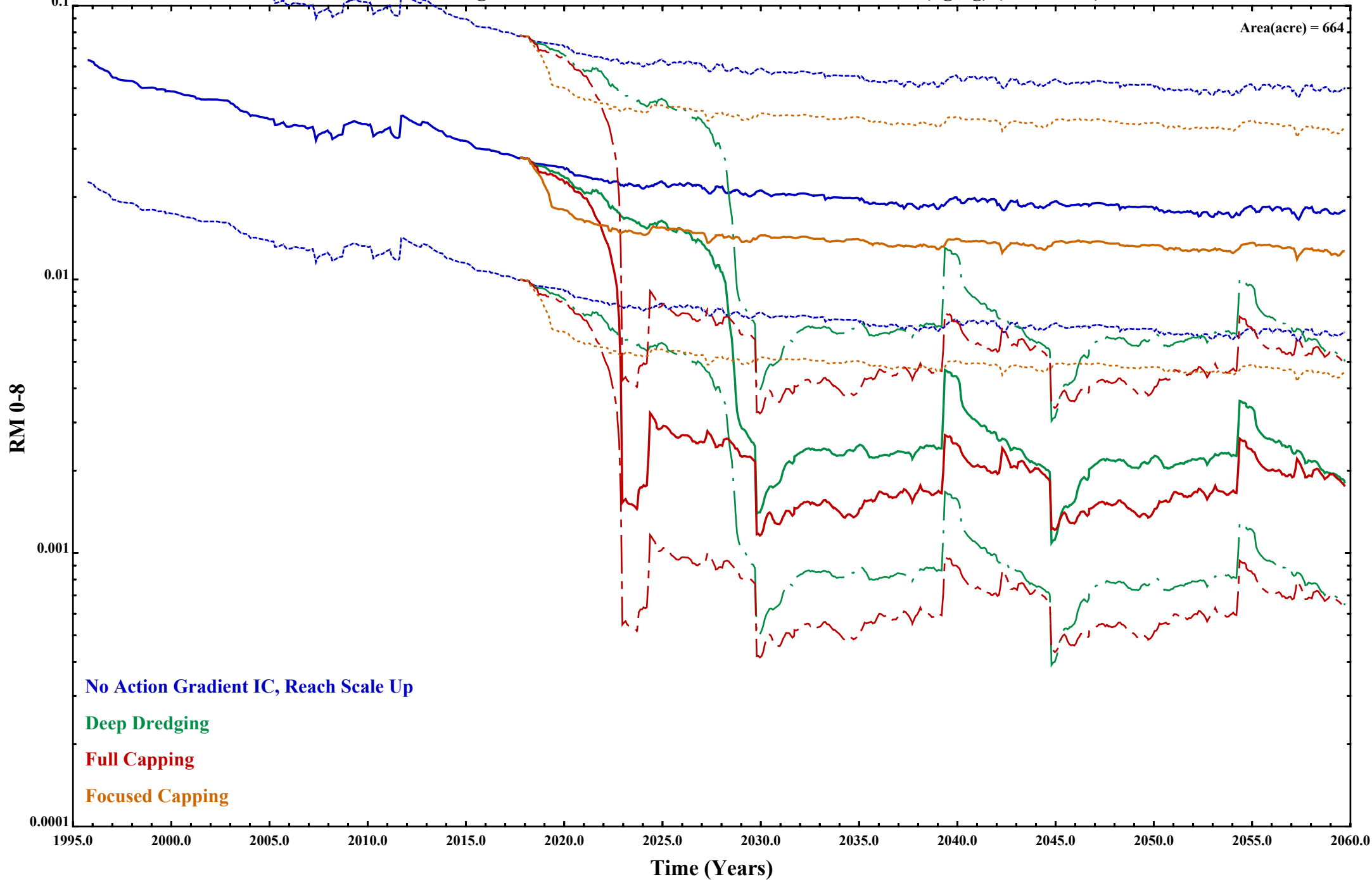
Area(acre) = 664



No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

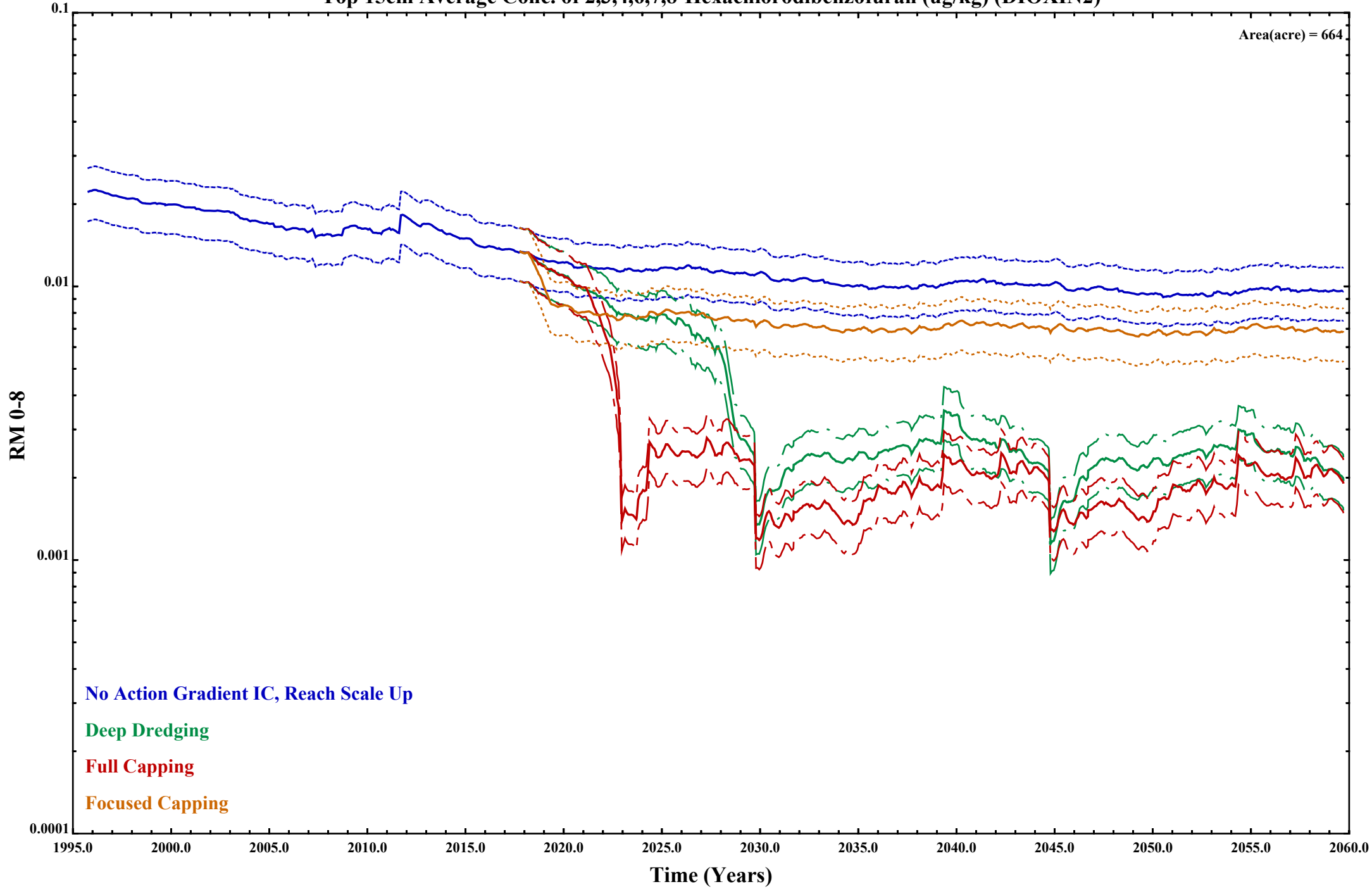
# Top 15cm Average Conc. of 1,2,3,7,8,9-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

Area(acre) = 664



# Top 15cm Average Conc. of 2,3,4,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN2)

Area(acre) = 664



No Action Gradient IC, Reach Scale Up

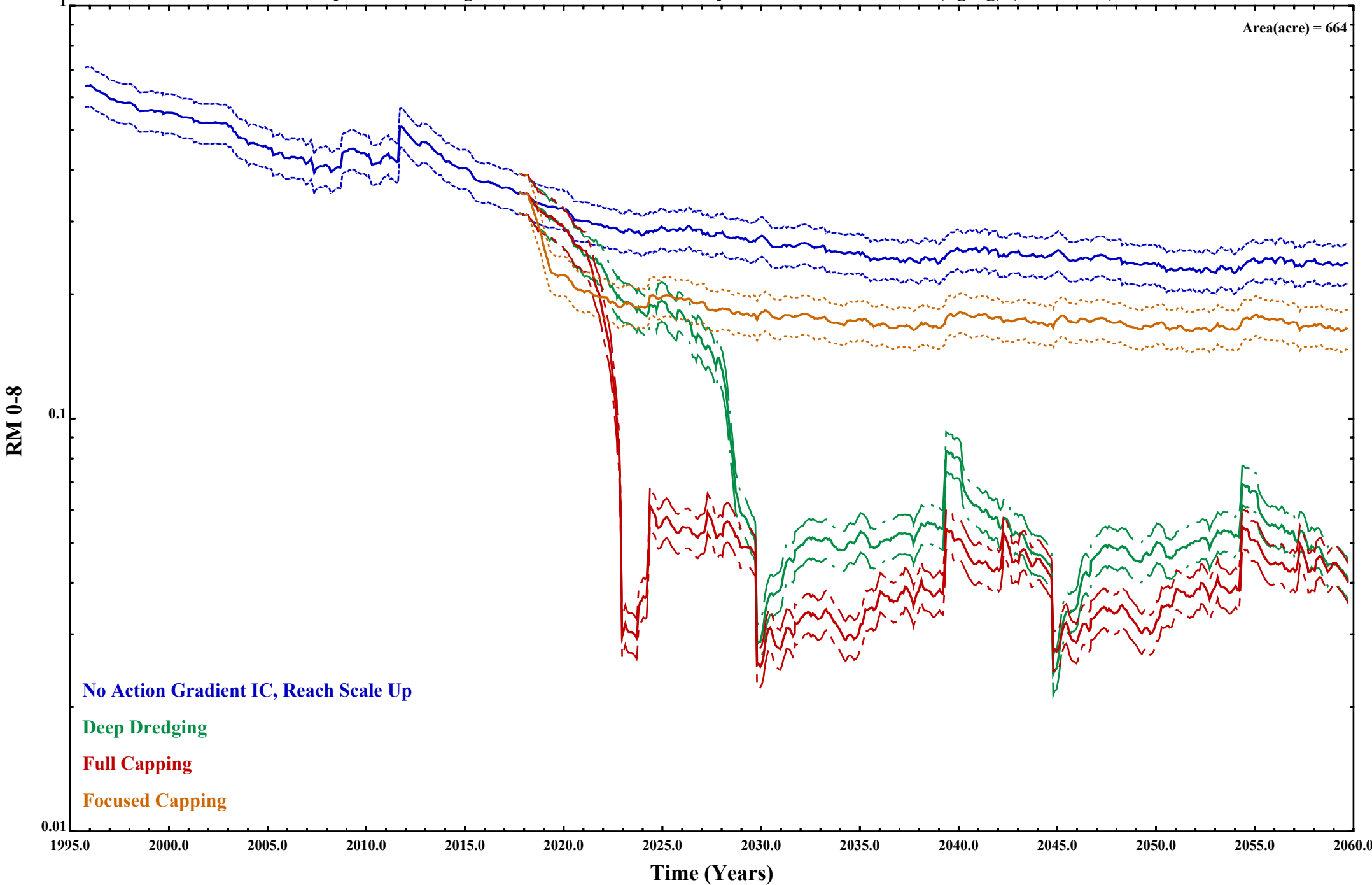
Deep Dredging

Full Capping

Focused Capping

# Top 15cm Average Conc. of 1,2,3,4,7,8,9-Heptachlorodibenzofuran (ug/kg) (DIOXIN2)

Area(acre) = 664



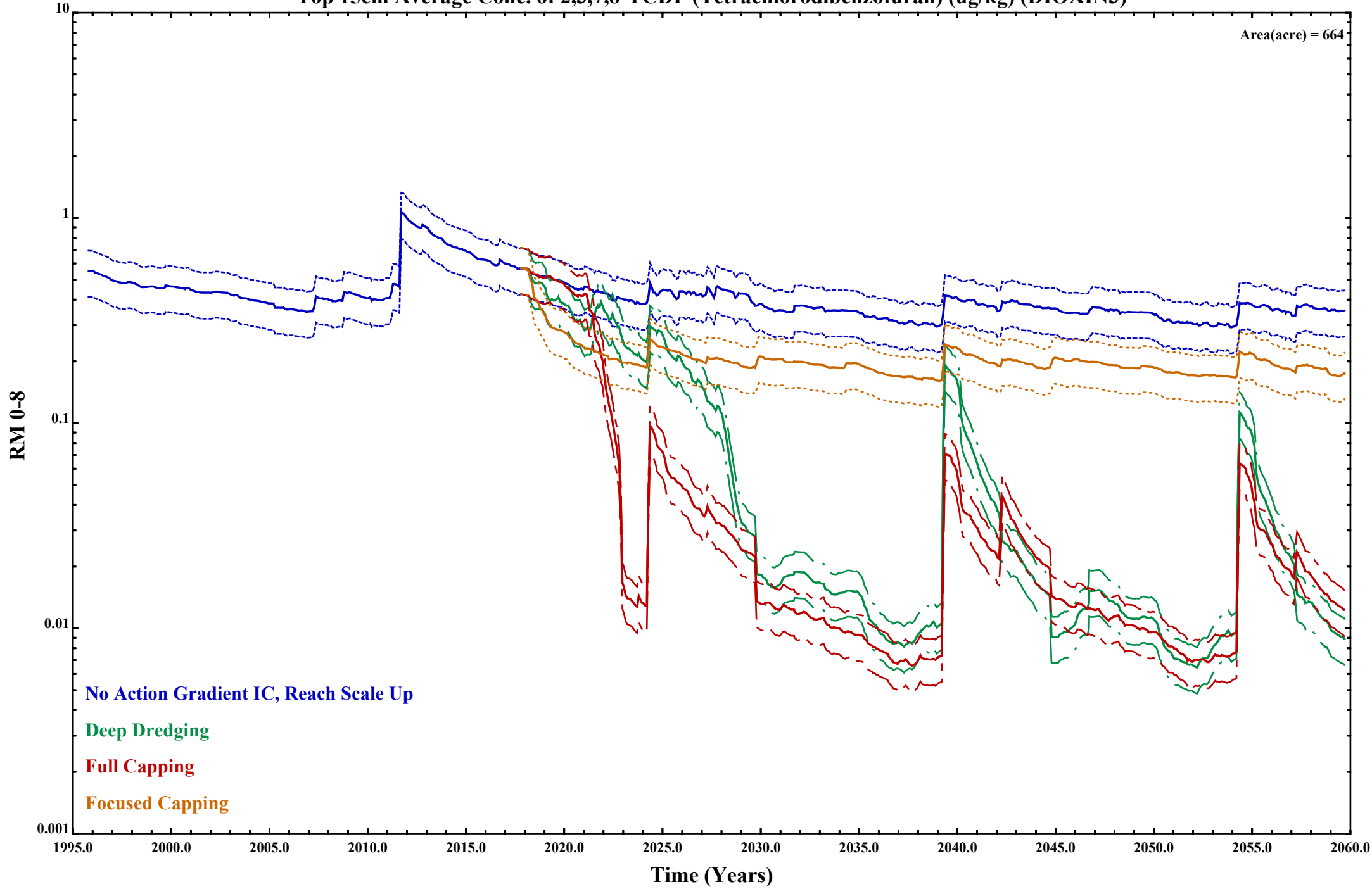
RM 0-8

No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

Time (Years)

# Top 15cm Average Conc. of 2,3,7,8-TCDF (Tetrachlorodibenzofuran) (ug/kg) (DIOXIN3)

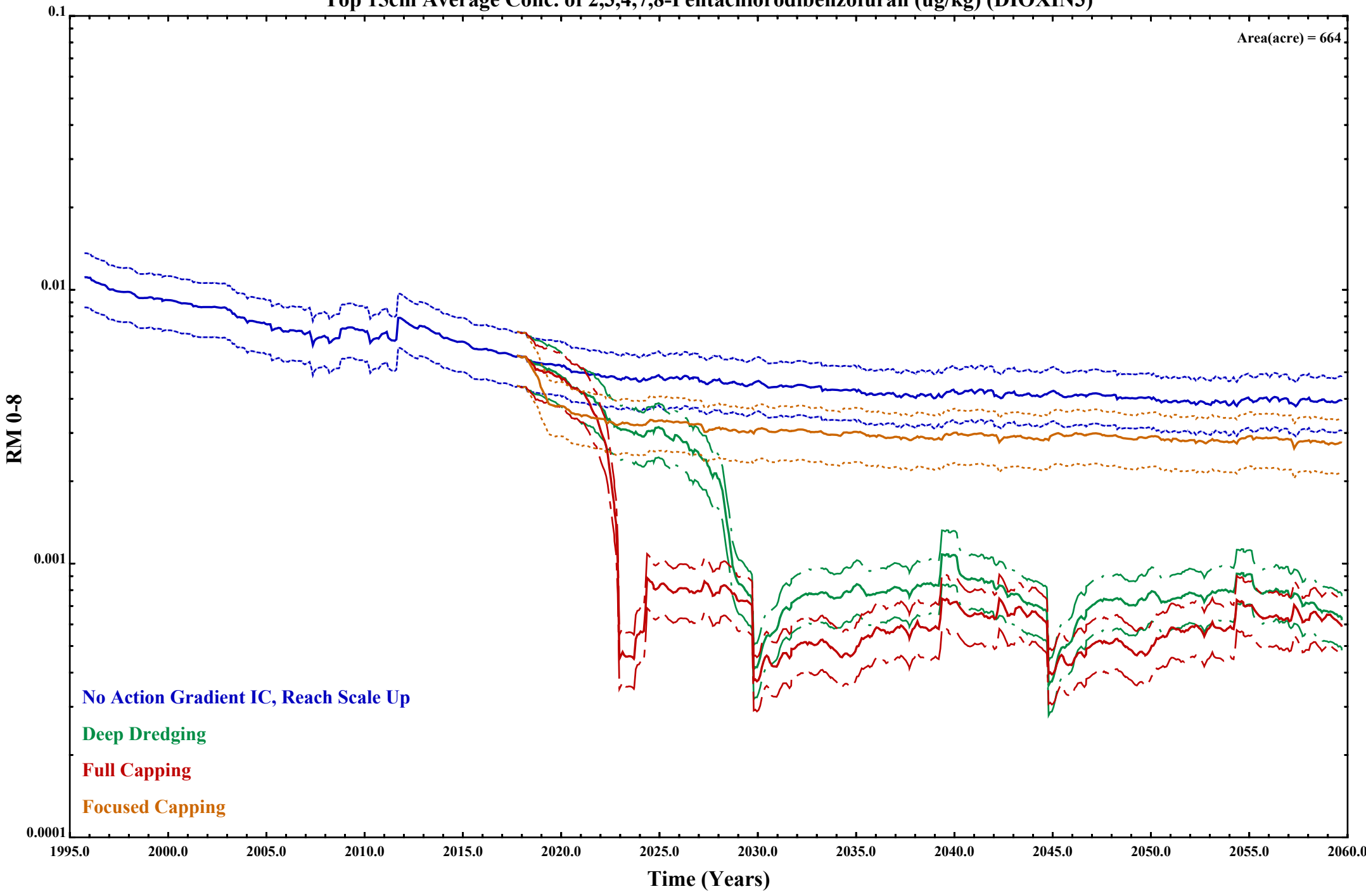
Area(acre) = 664





# Top 15cm Average Conc. of 2,3,4,7,8-Pentachlorodibenzofuran (ug/kg) (DIOXIN3)

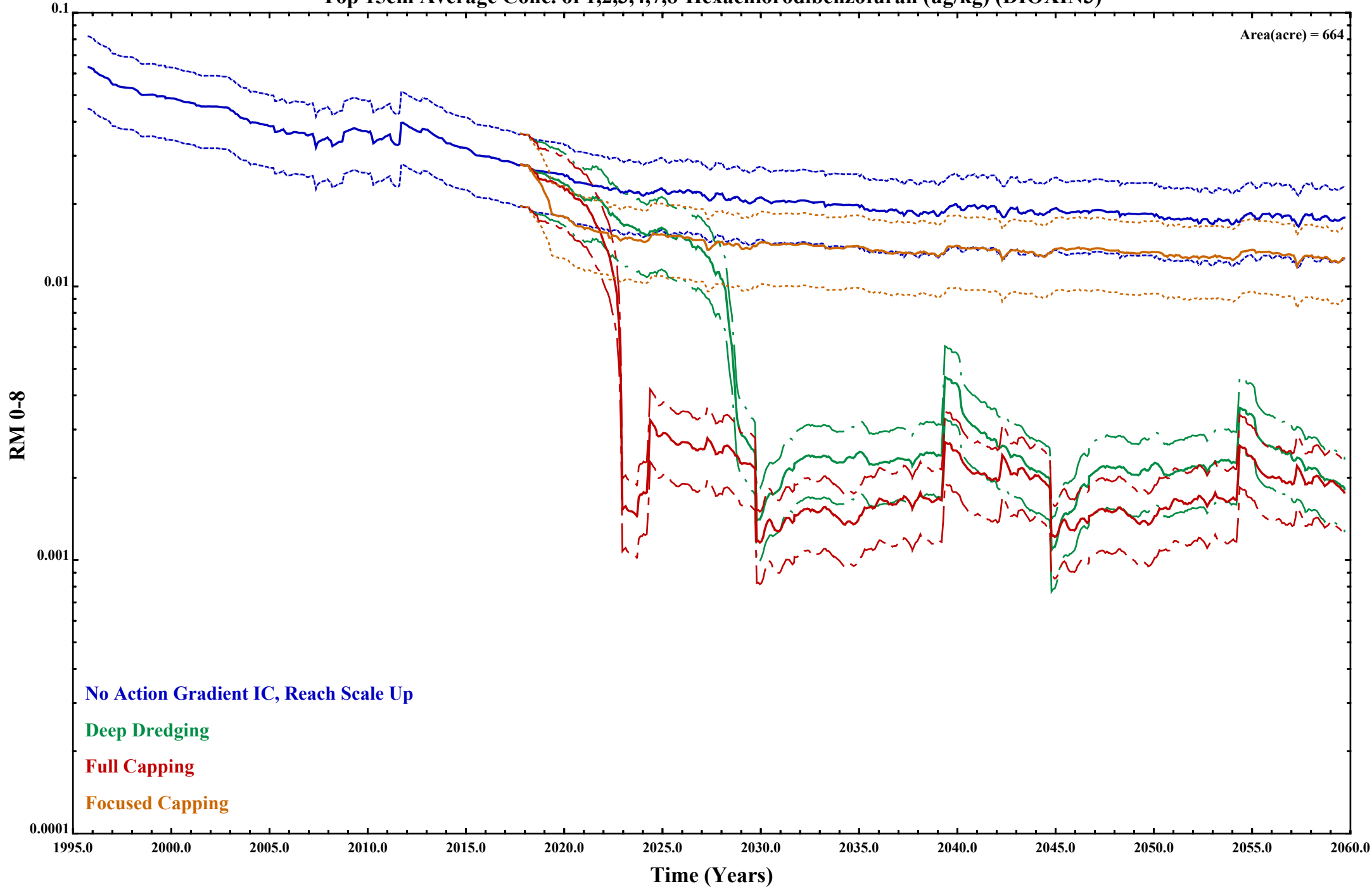
Area(acre) = 664



No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

# Top 15cm Average Conc. of 1,2,3,4,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

Area(acre) = 664



No Action Gradient IC, Reach Scale Up

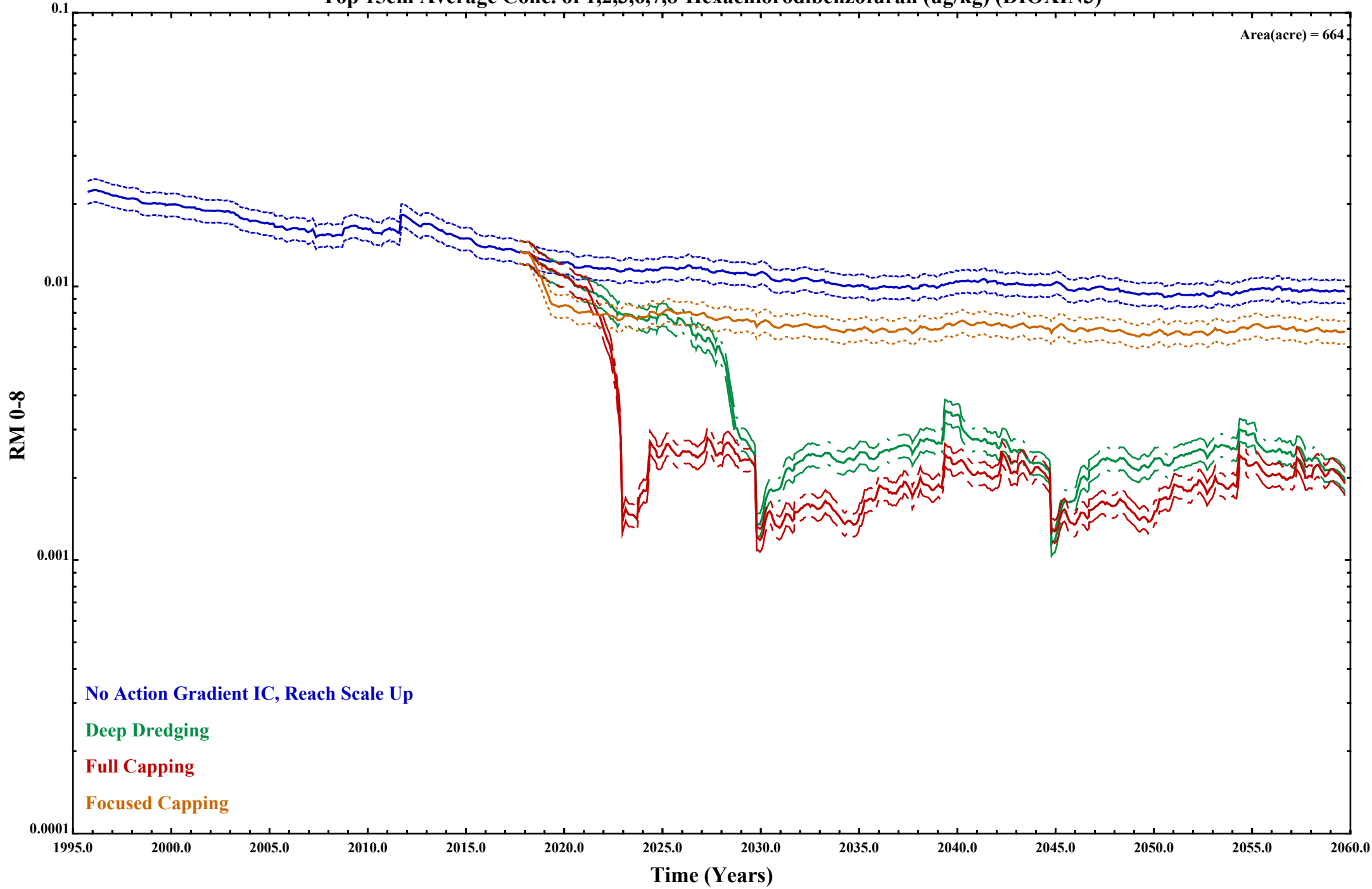
Deep Dredging

Full Capping

Focused Capping

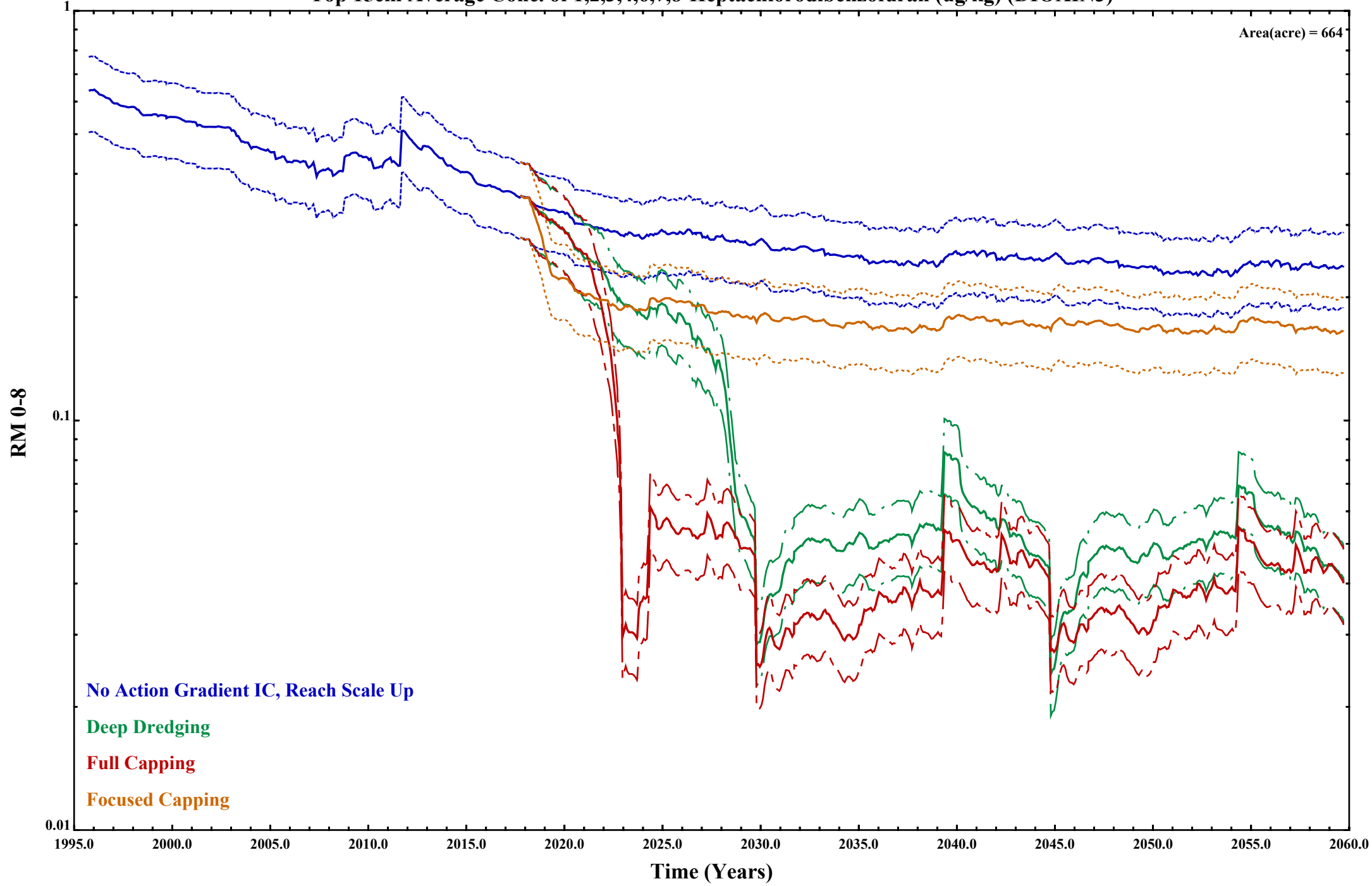
# Top 15cm Average Conc. of 1,2,3,6,7,8-Hexachlorodibenzofuran (ug/kg) (DIOXIN3)

Area(acre) = 664



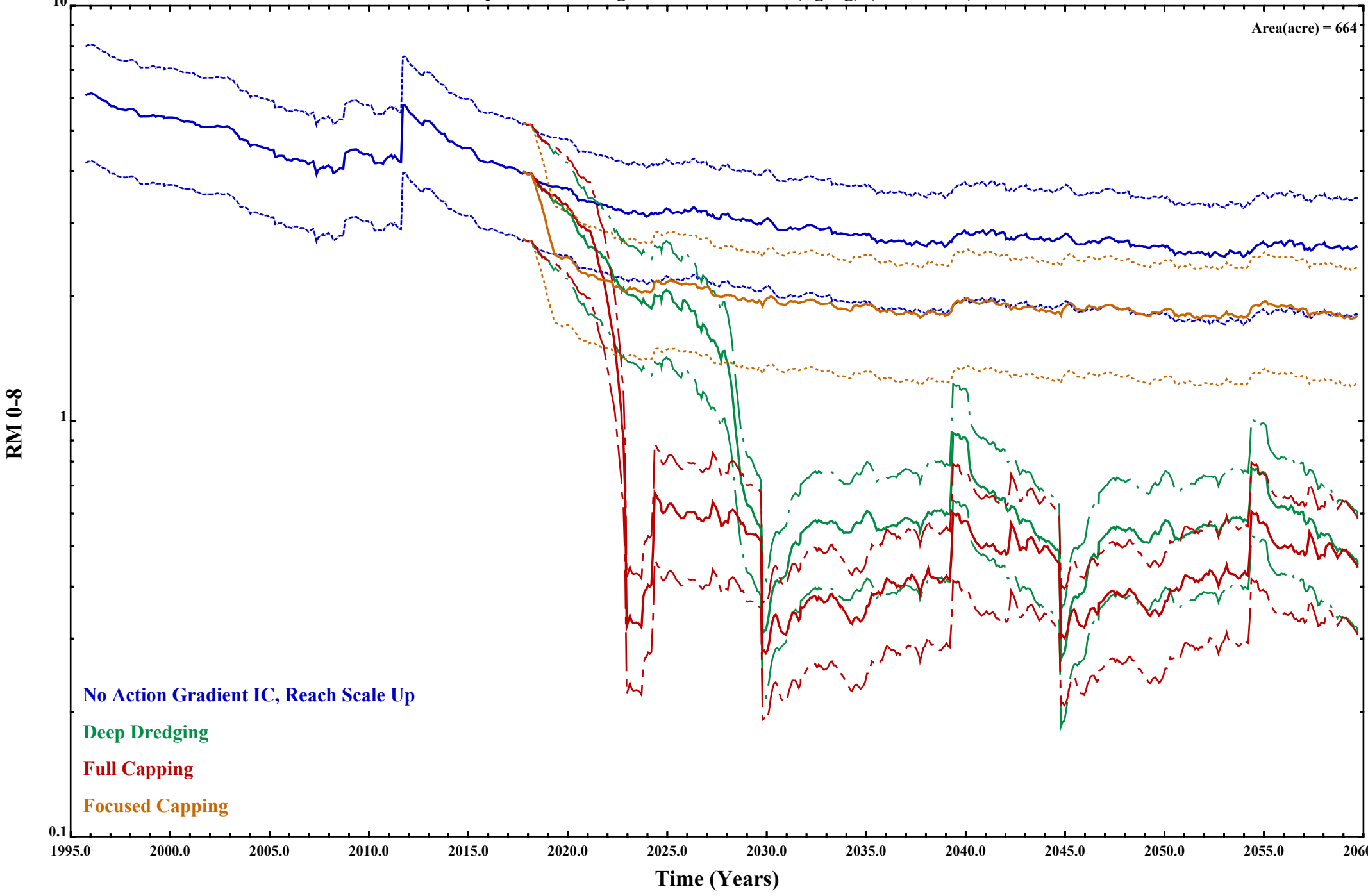
# Top 15cm Average Conc. of 1,2,3,4,6,7,8-Heptachlorodibenzofuran (ug/kg) (DIOXIN3)

Area(acre) = 664



# Top 15cm Average Conc. of OCDF (ug/kg) (DIOXIN3)

Area(acre) = 664

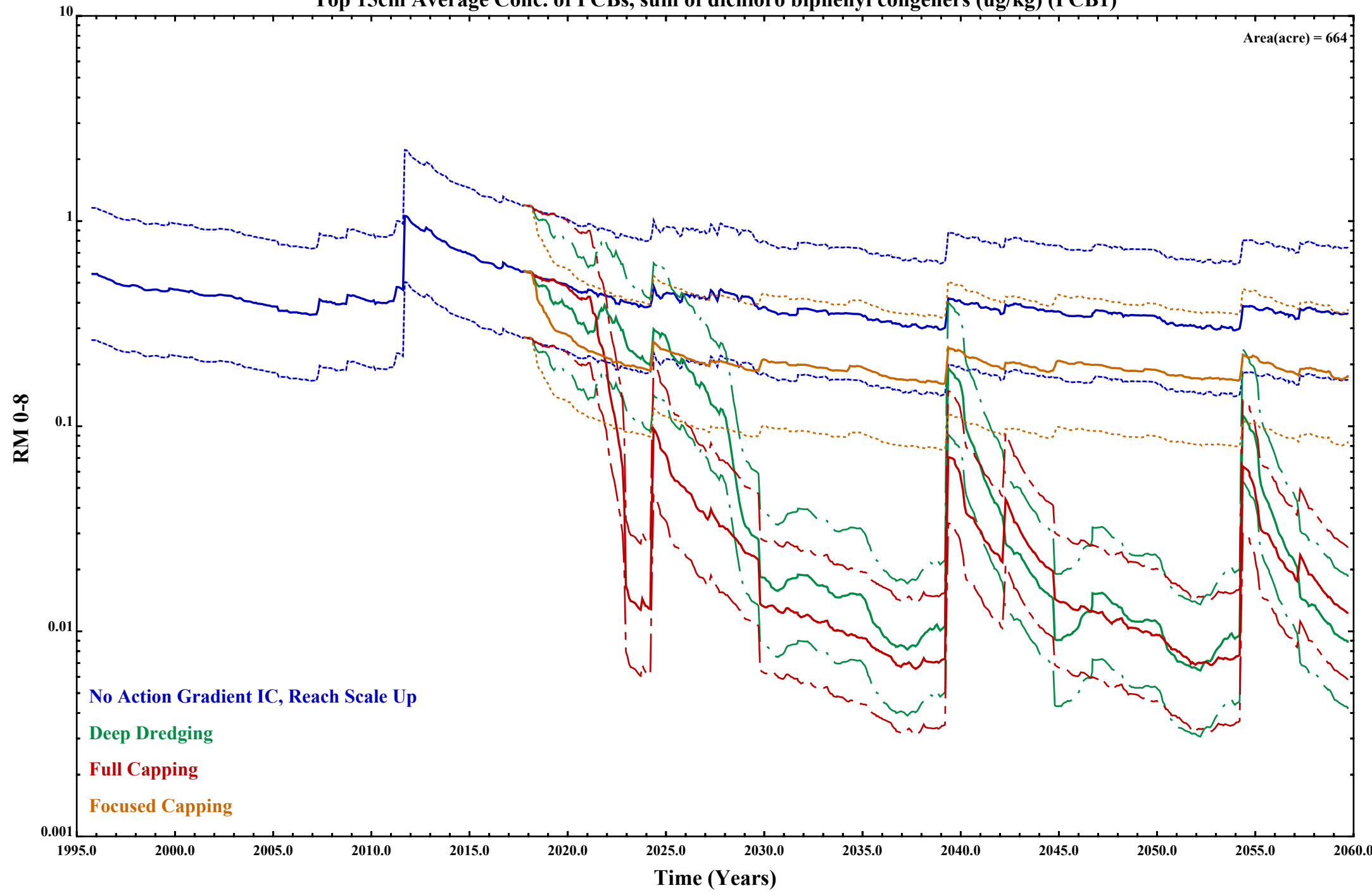


**No Action Gradient IC, Reach Scale Up**  
**Deep Dredging**  
**Full Capping**  
**Focused Capping**

RM 0-8  
Time (Years)

# Top 15cm Average Conc. of PCBs, sum of dichloro biphenyl congeners (ug/kg) (PCB1)

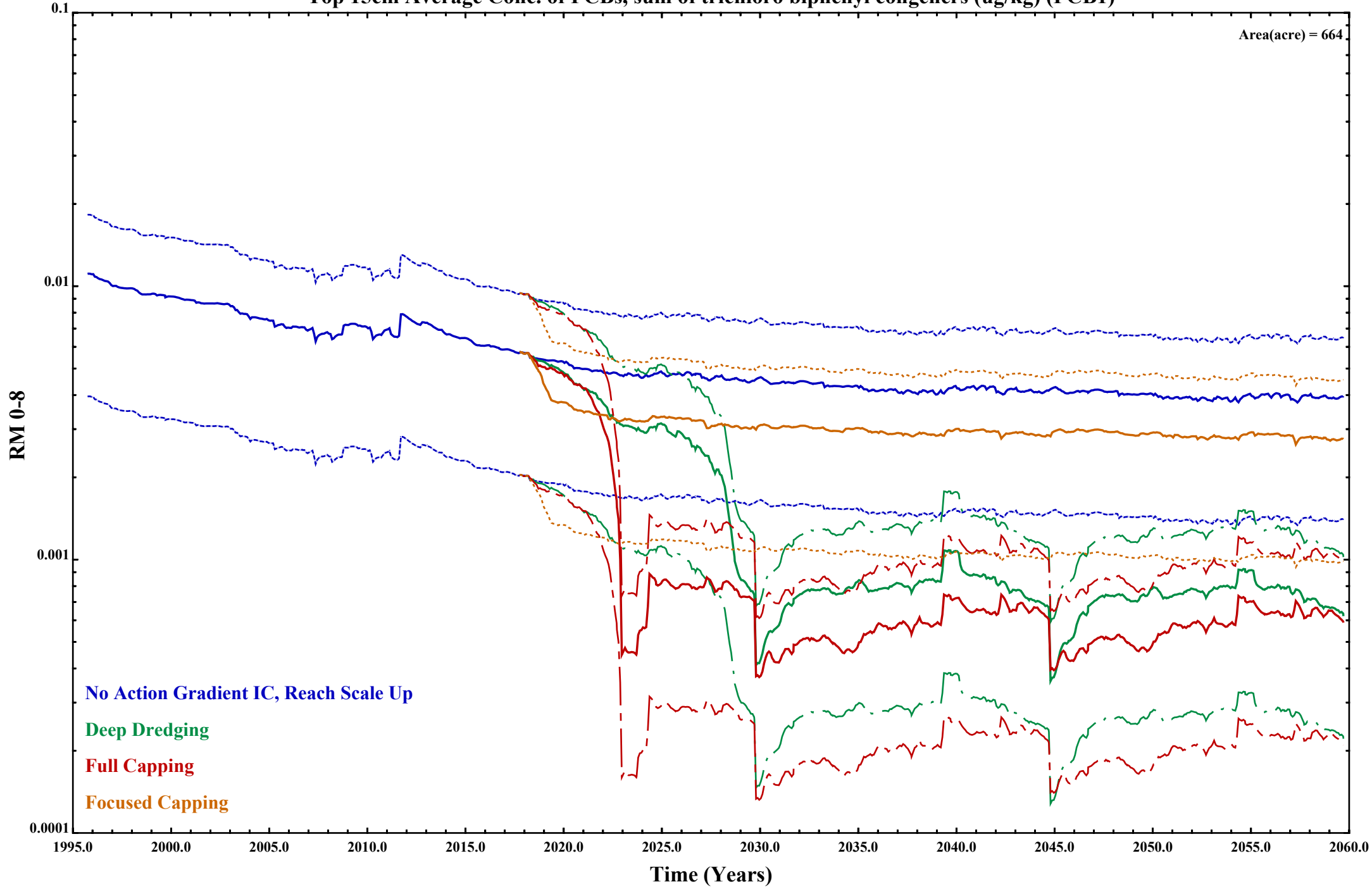
Area(acre) = 664



**No Action Gradient IC, Reach Scale Up**  
**Deep Dredging**  
**Full Capping**  
**Focused Capping**

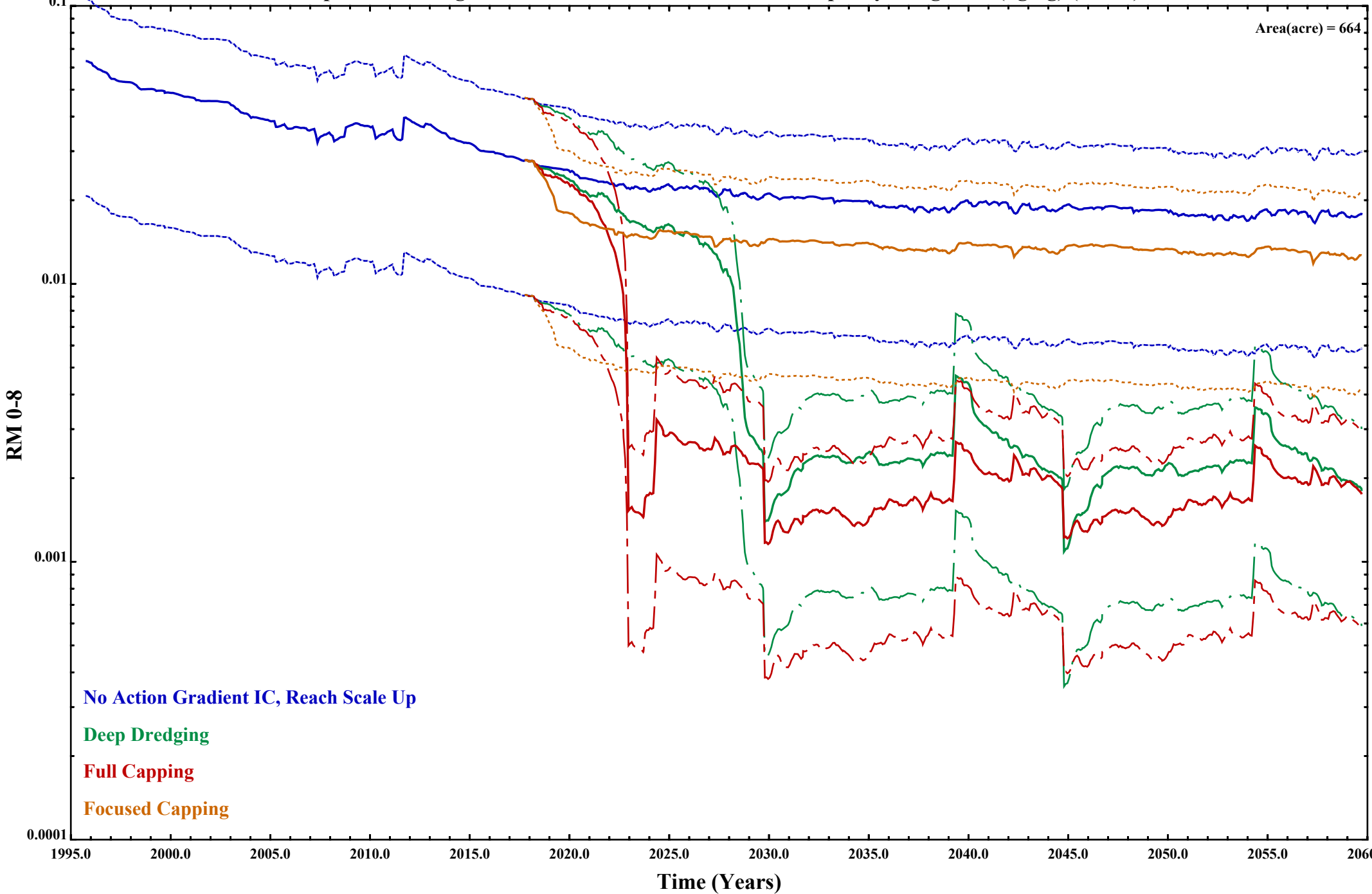
# Top 15cm Average Conc. of PCBs, sum of trichloro biphenyl congeners (ug/kg) (PCB1)

Area(acre) = 664



# Top 15cm Average Conc. of PCBs, sum of tetrachloro biphenyl congeners (ug/kg) (PCB1)

Area(acre) = 664

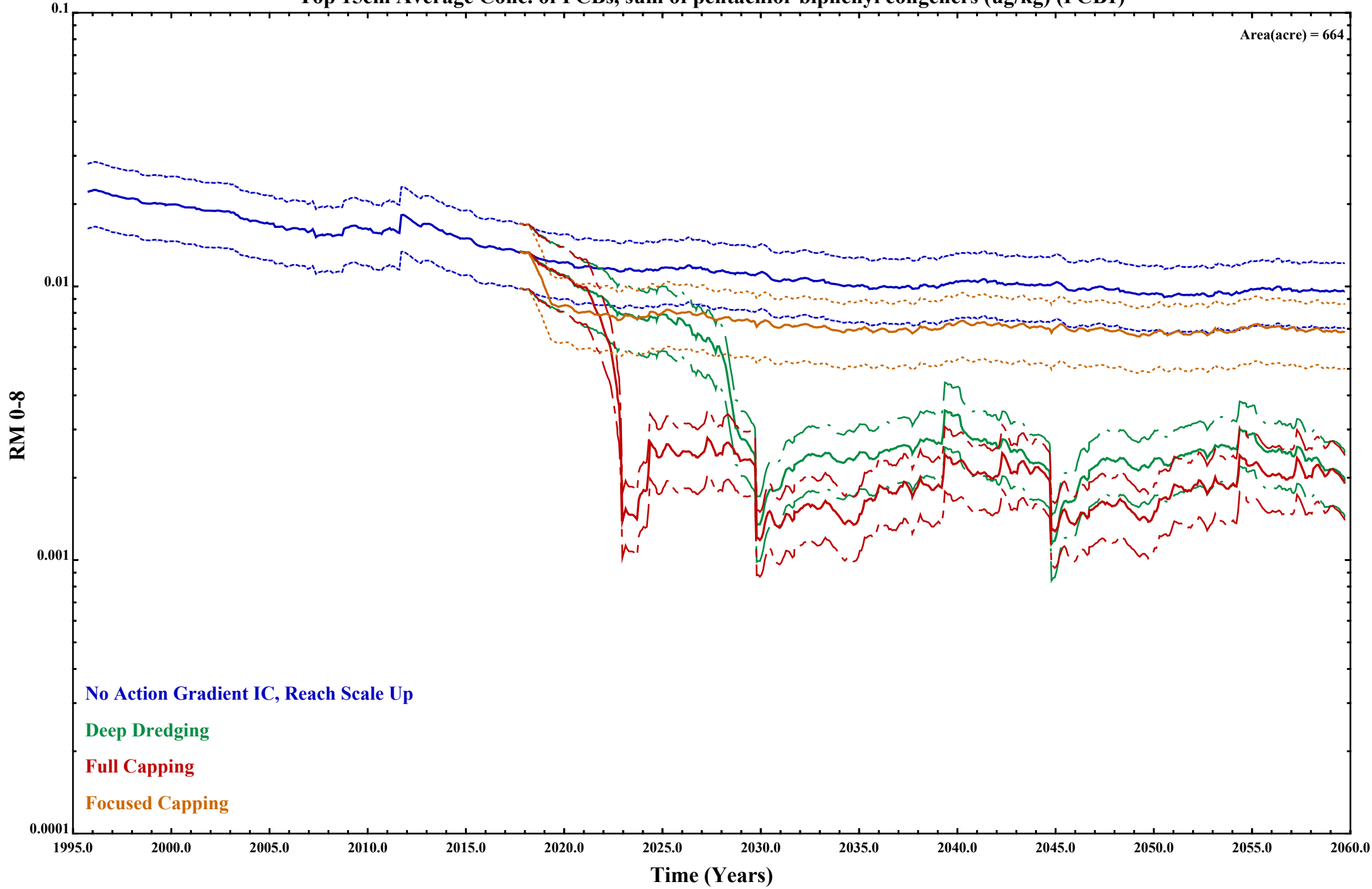


No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping



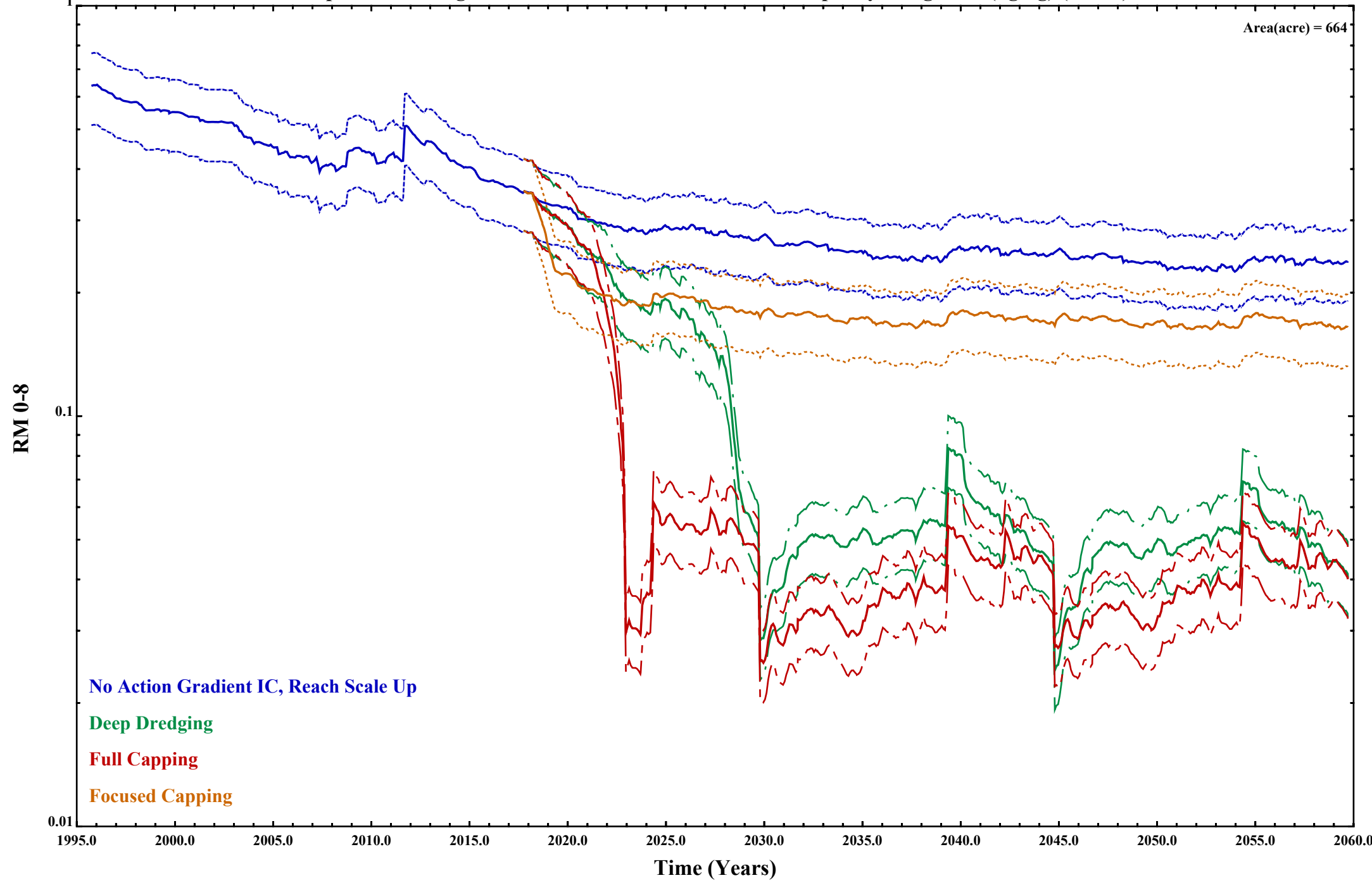
# Top 15cm Average Conc. of PCBs, sum of pentachlor biphenyl congeners (ug/kg) (PCB1)

Area(acre) = 664



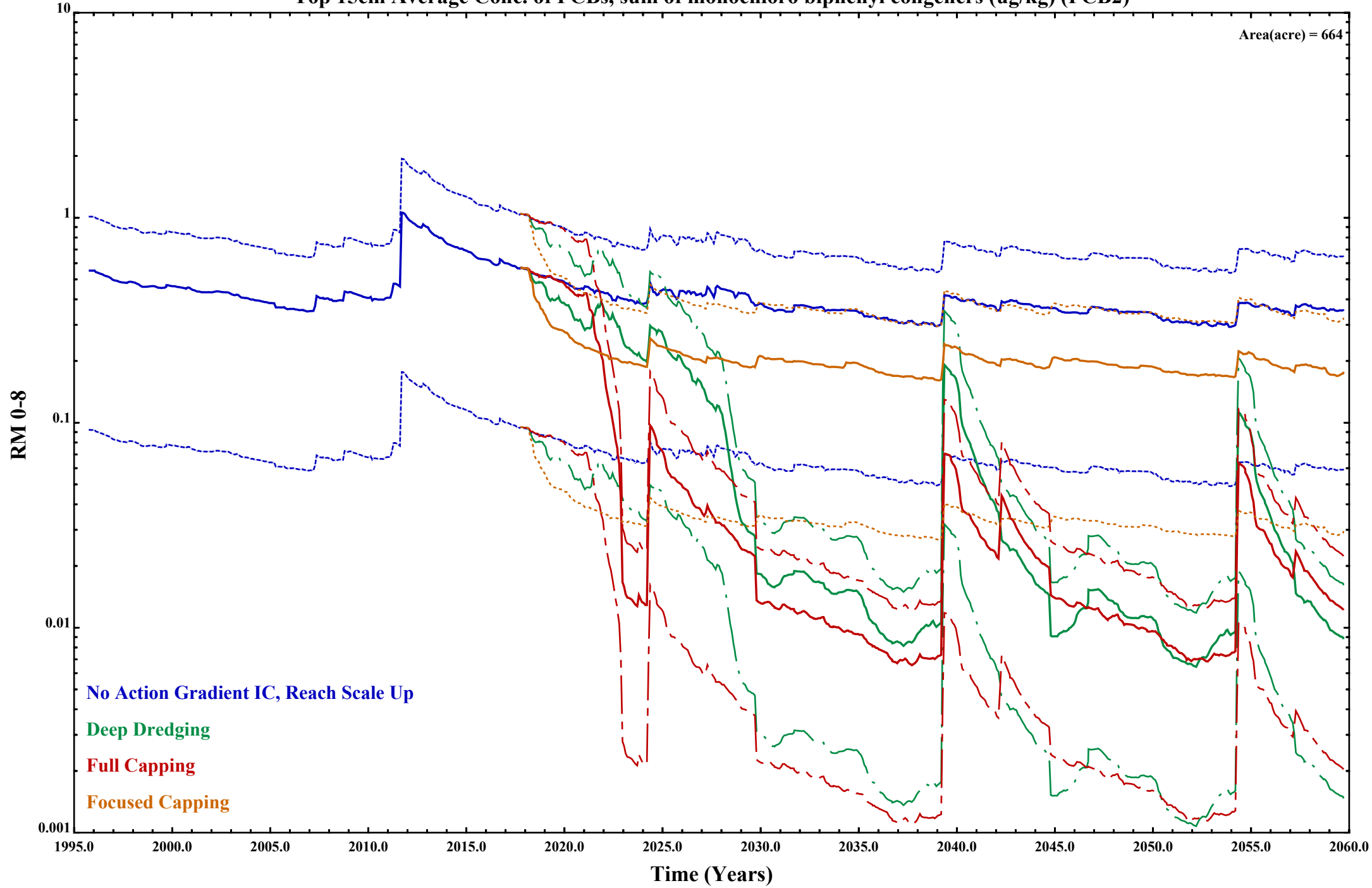
# Top 15cm Average Conc. of PCBs, sum of hexachloro biphenyl congeners (ug/kg) (PCB1)

Area(acre) = 664



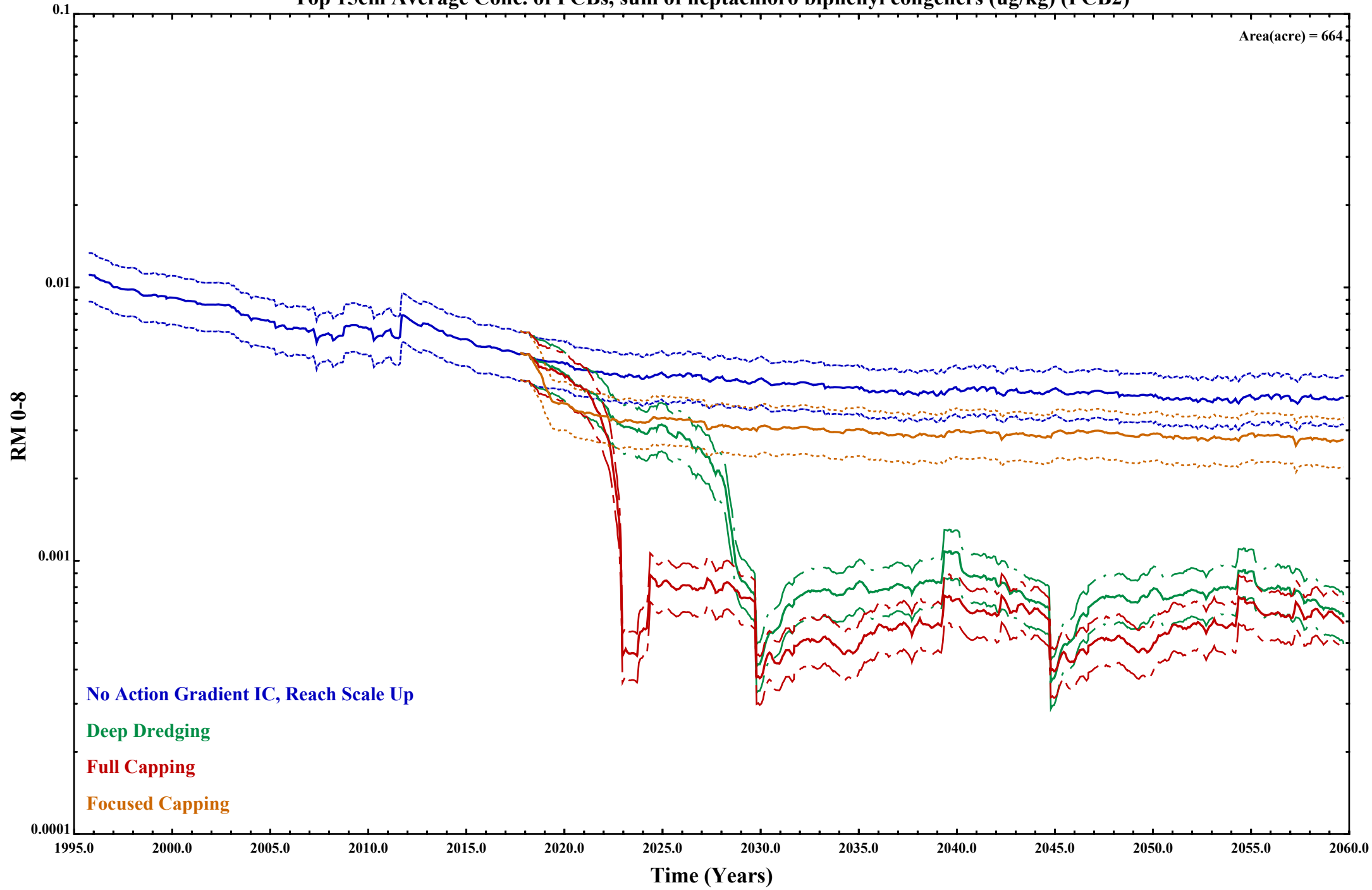
# Top 15cm Average Conc. of PCBs, sum of monochloro biphenyl congeners (ug/kg) (PCB2)

Area(acre) = 664



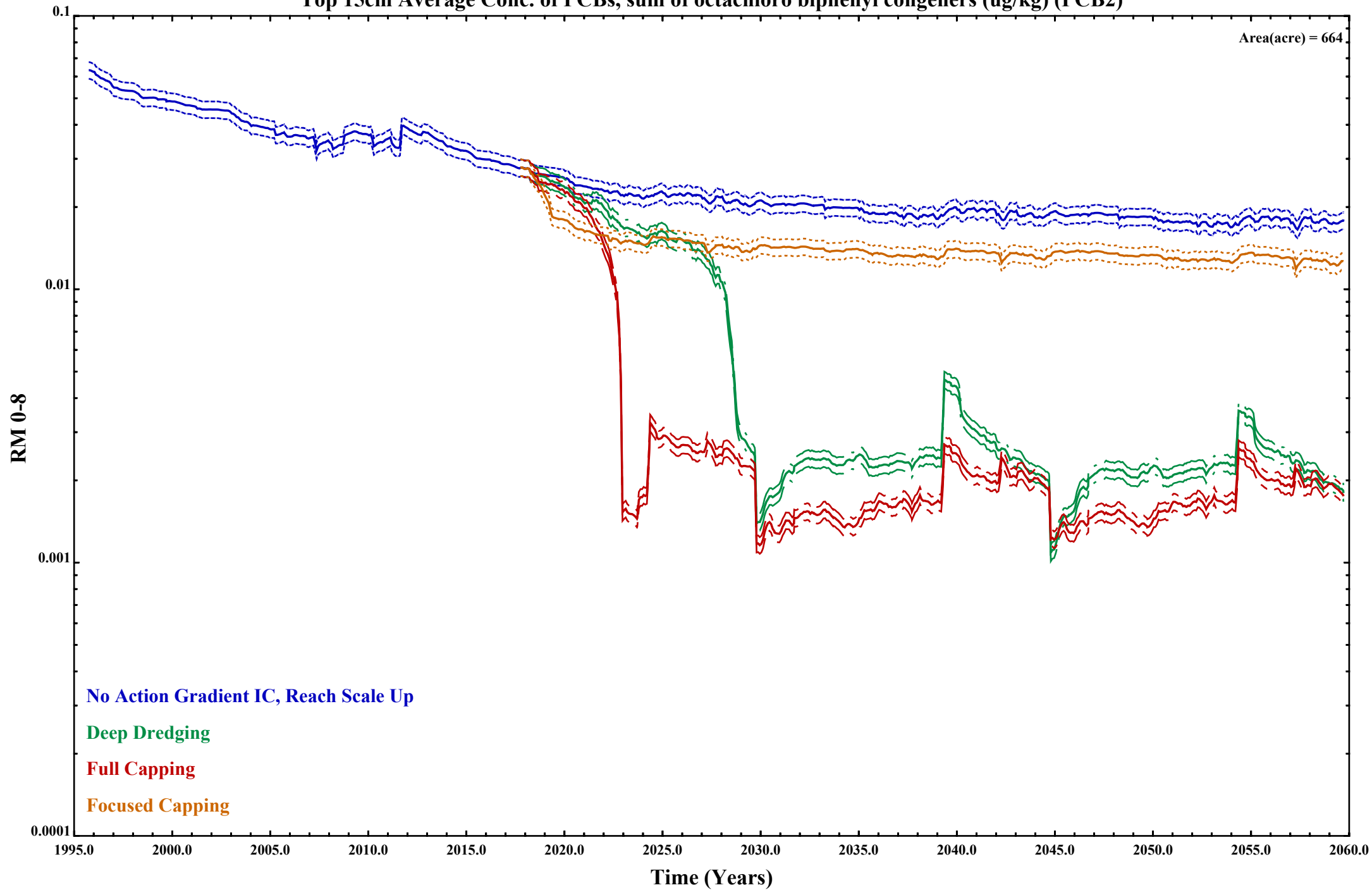
# Top 15cm Average Conc. of PCBs, sum of heptachloro biphenyl congeners (ug/kg) (PCB2)

Area(acre) = 664



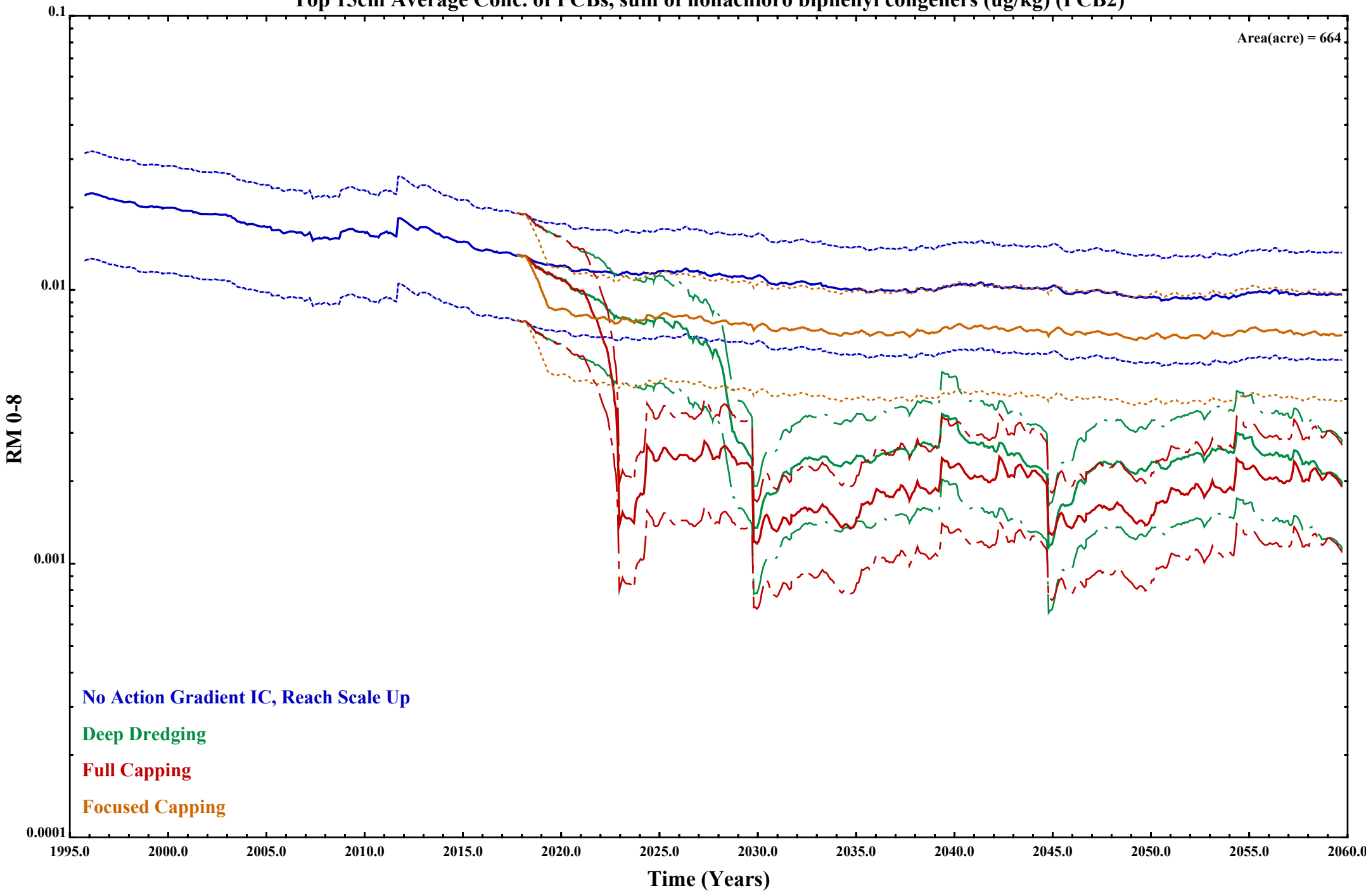
# Top 15cm Average Conc. of PCBs, sum of octachloro biphenyl congeners (ug/kg) (PCB2)

Area(acre) = 664



# Top 15cm Average Conc. of PCBs, sum of nonachloro biphenyl congeners (ug/kg) (PCB2)

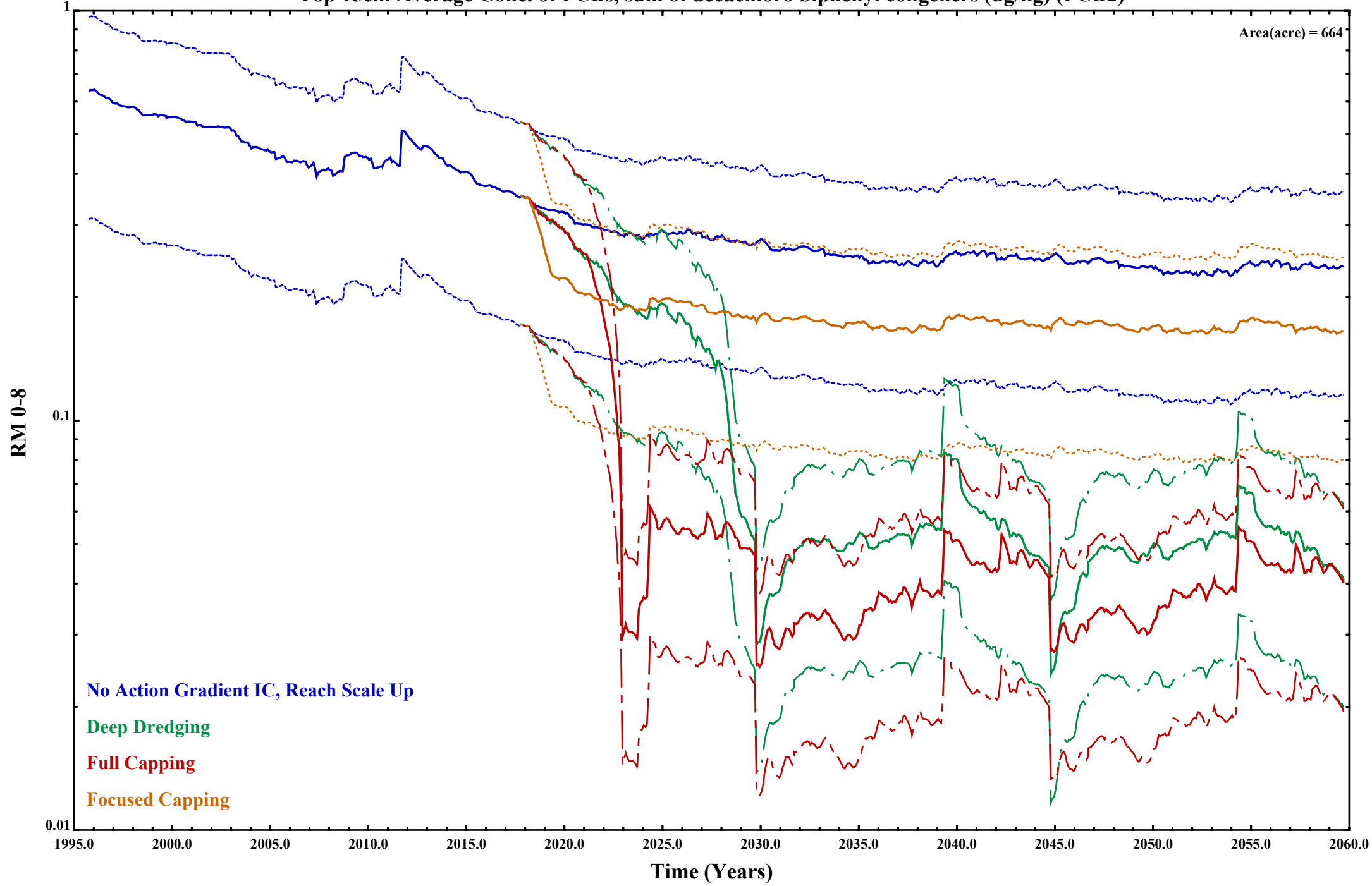
Area(acre) = 664



**No Action Gradient IC, Reach Scale Up**  
**Deep Dredging**  
**Full Capping**  
**Focused Capping**

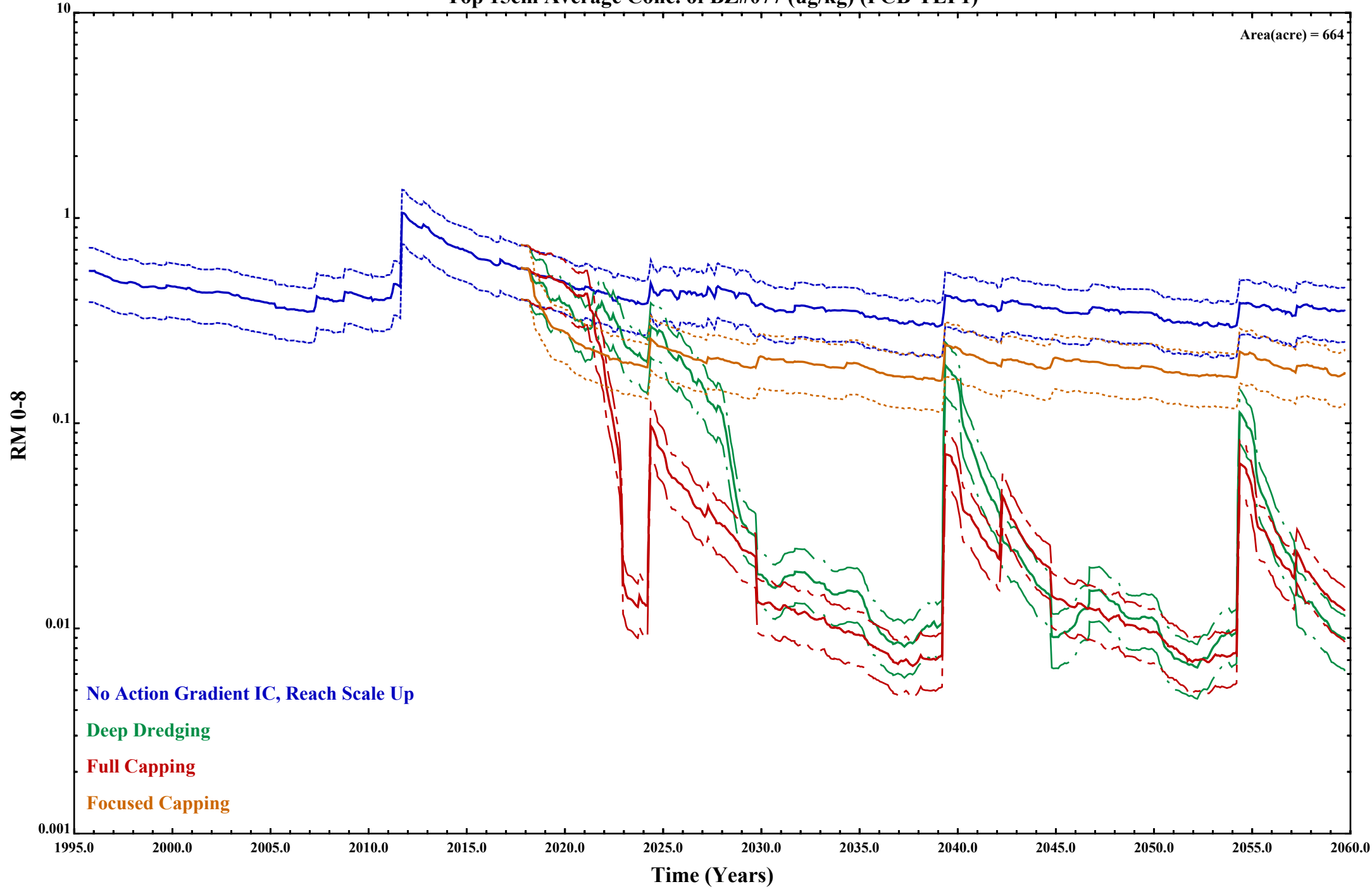
# Top 15cm Average Conc. of PCBs, sum of decachloro biphenyl congeners (ug/kg) (PCB2)

Area(acre) = 664



# Top 15cm Average Conc. of BZ#077 (ug/kg) (PCB-TEF1)

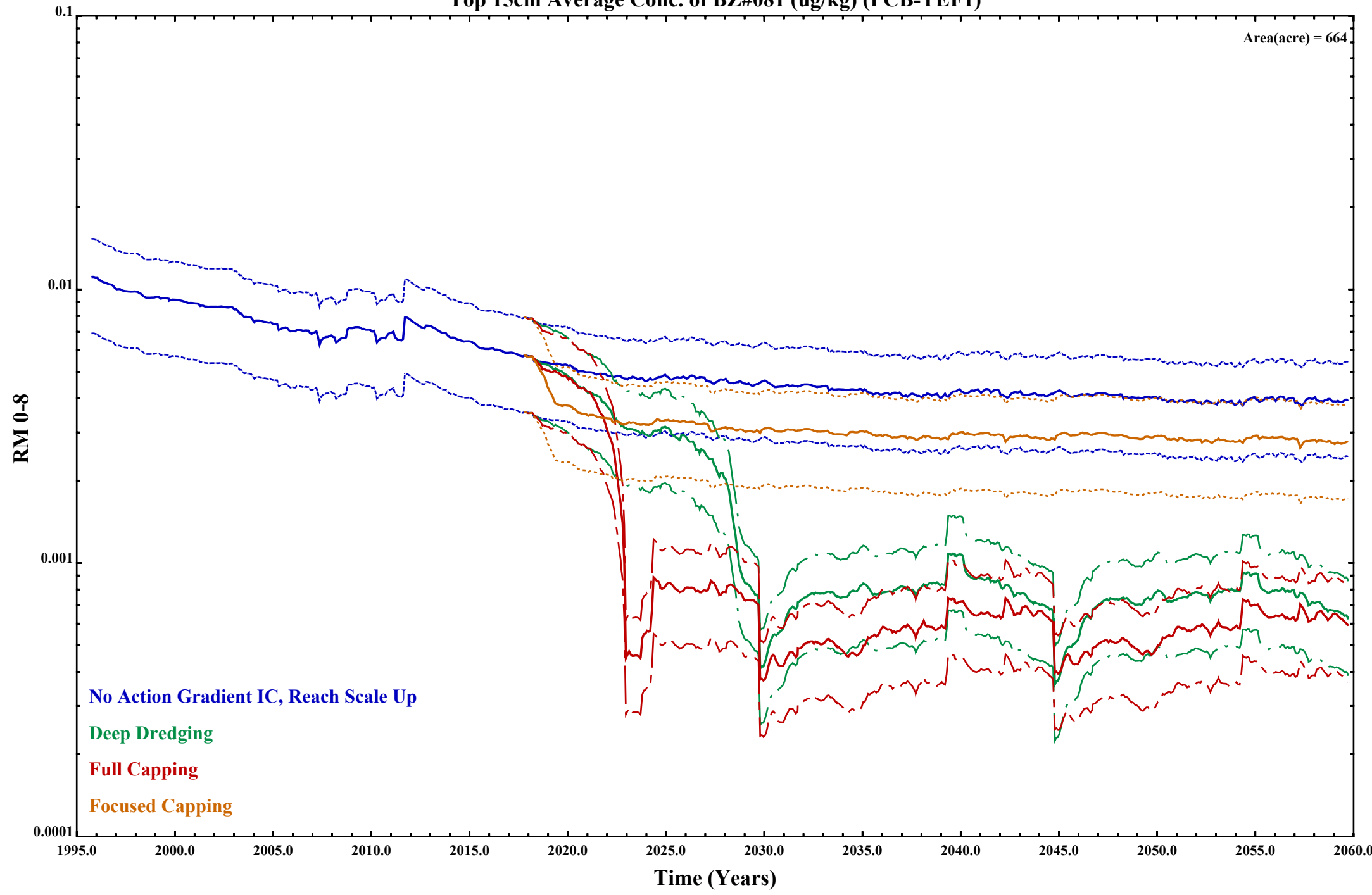
Area(acre) = 664





# Top 15cm Average Conc. of BZ#081 (ug/kg) (PCB-TEF1)

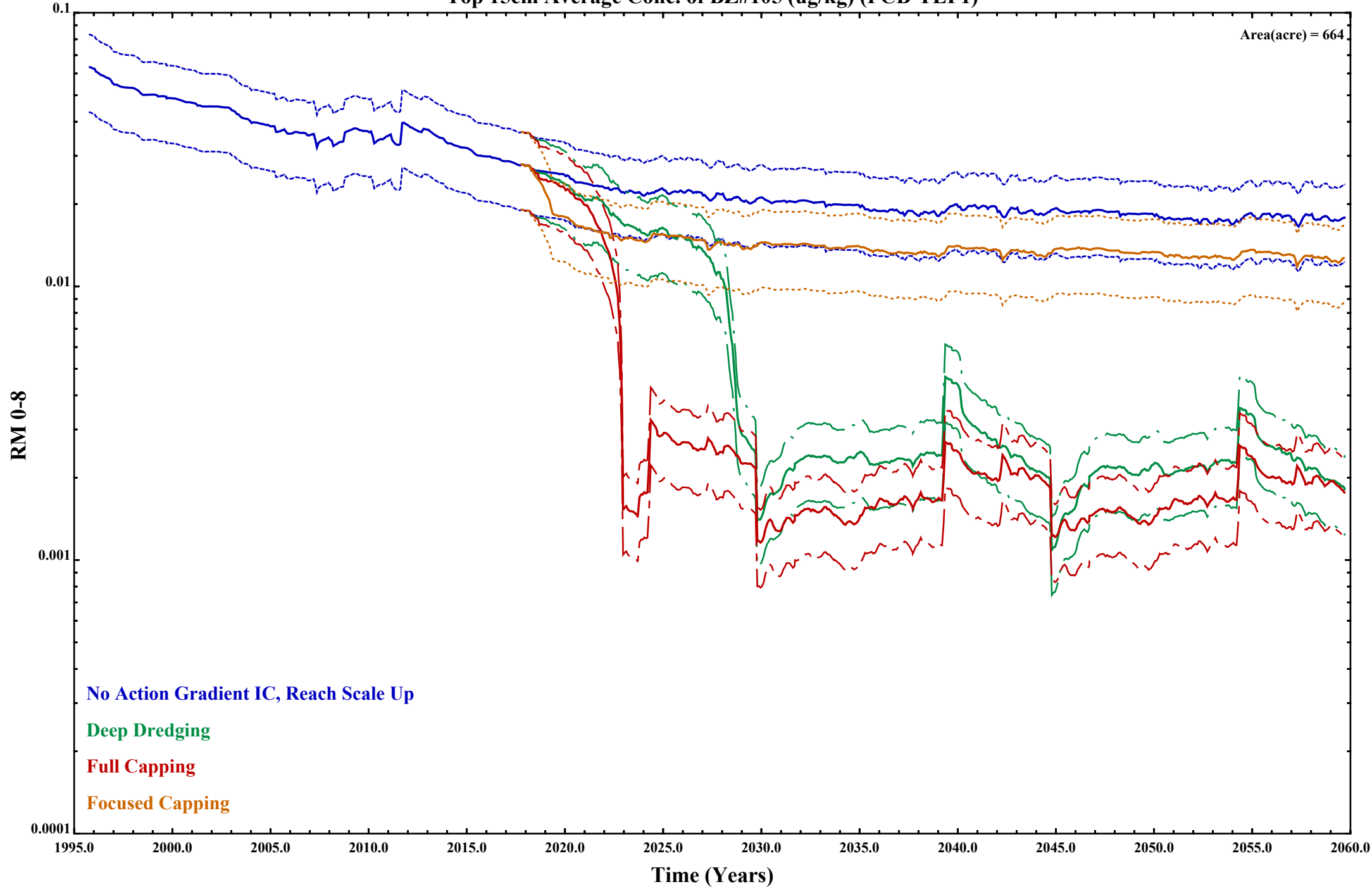
Area(acre) = 664



No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

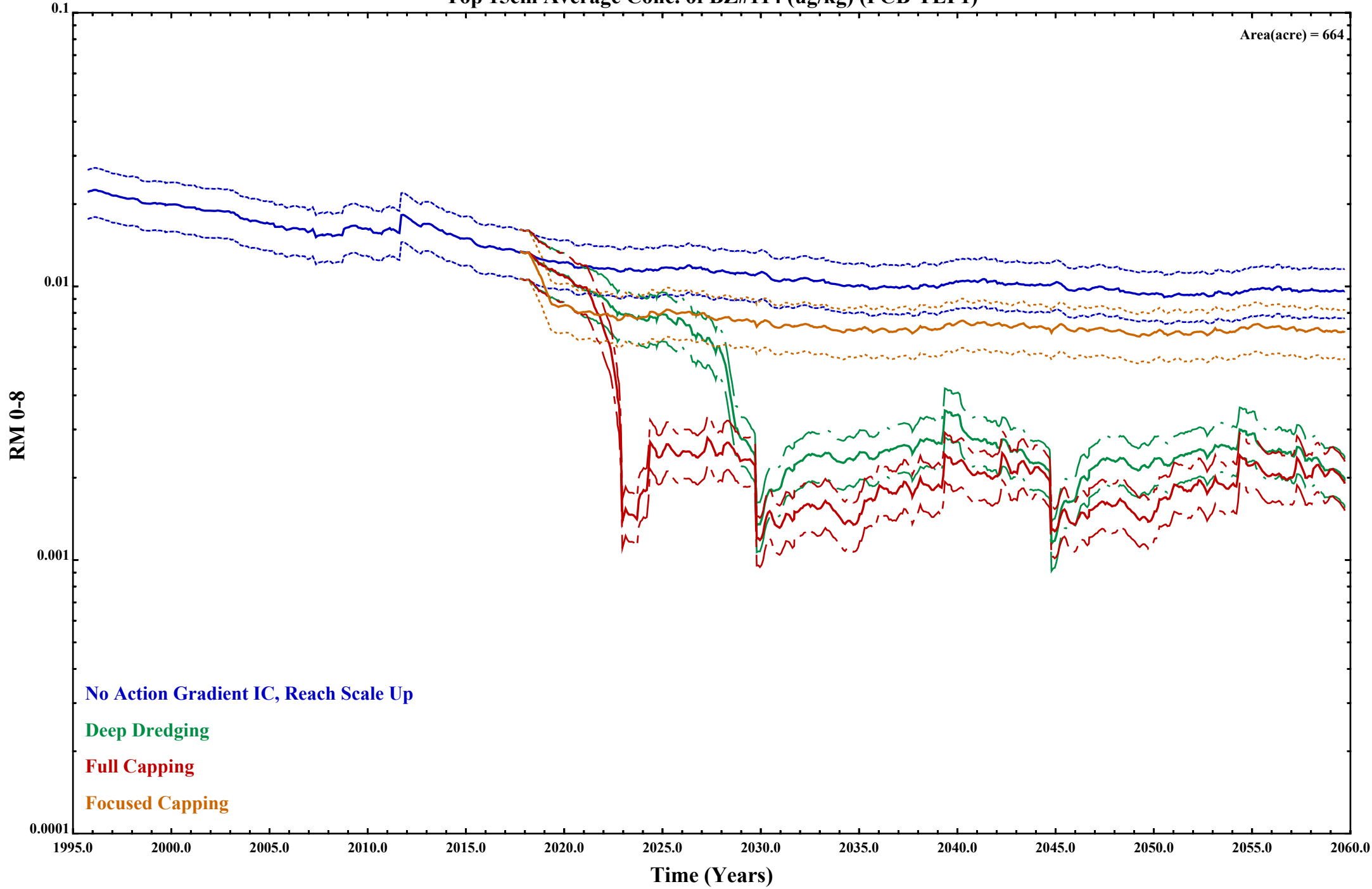
# Top 15cm Average Conc. of BZ#105 (ug/kg) (PCB-TEF1)

Area(acre) = 664



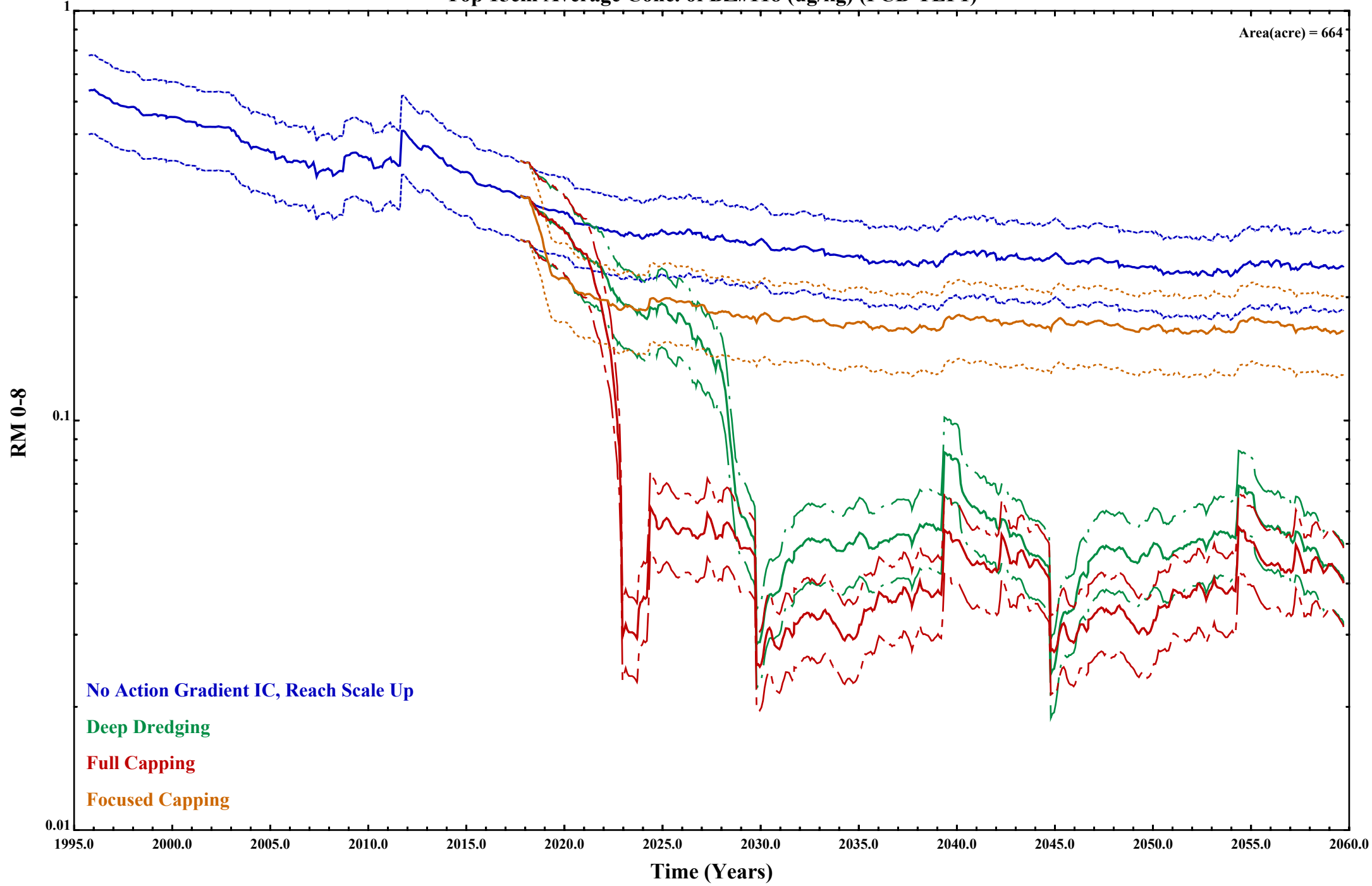
# Top 15cm Average Conc. of BZ#114 (ug/kg) (PCB-TEF1)

Area(acre) = 664



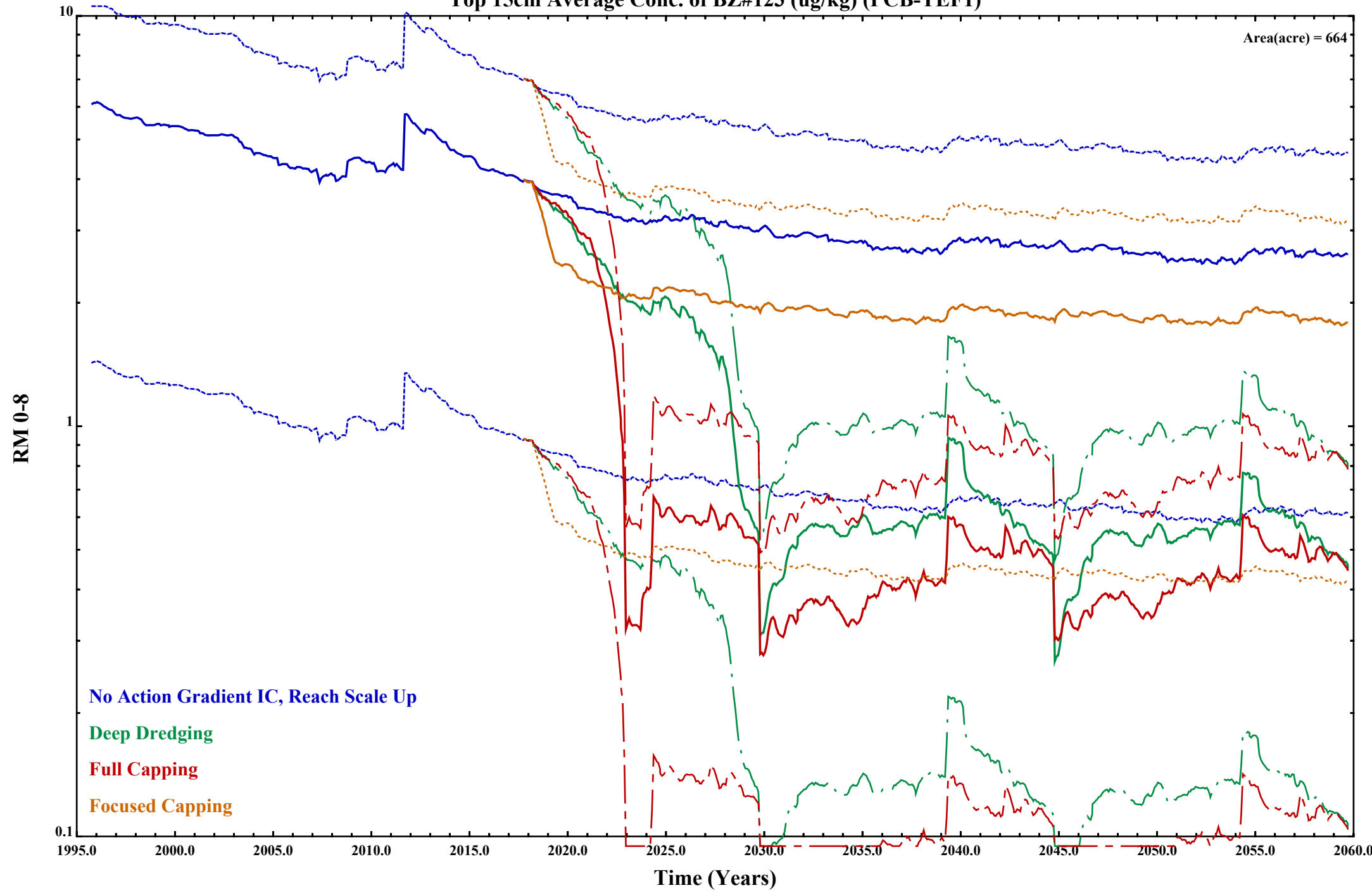
# Top 15cm Average Conc. of BZ#118 (ug/kg) (PCB-TEF1)

Area(acre) = 664



# Top 15cm Average Conc. of BZ#123 (ug/kg) (PCB-TEF1)

Area(acre) = 664

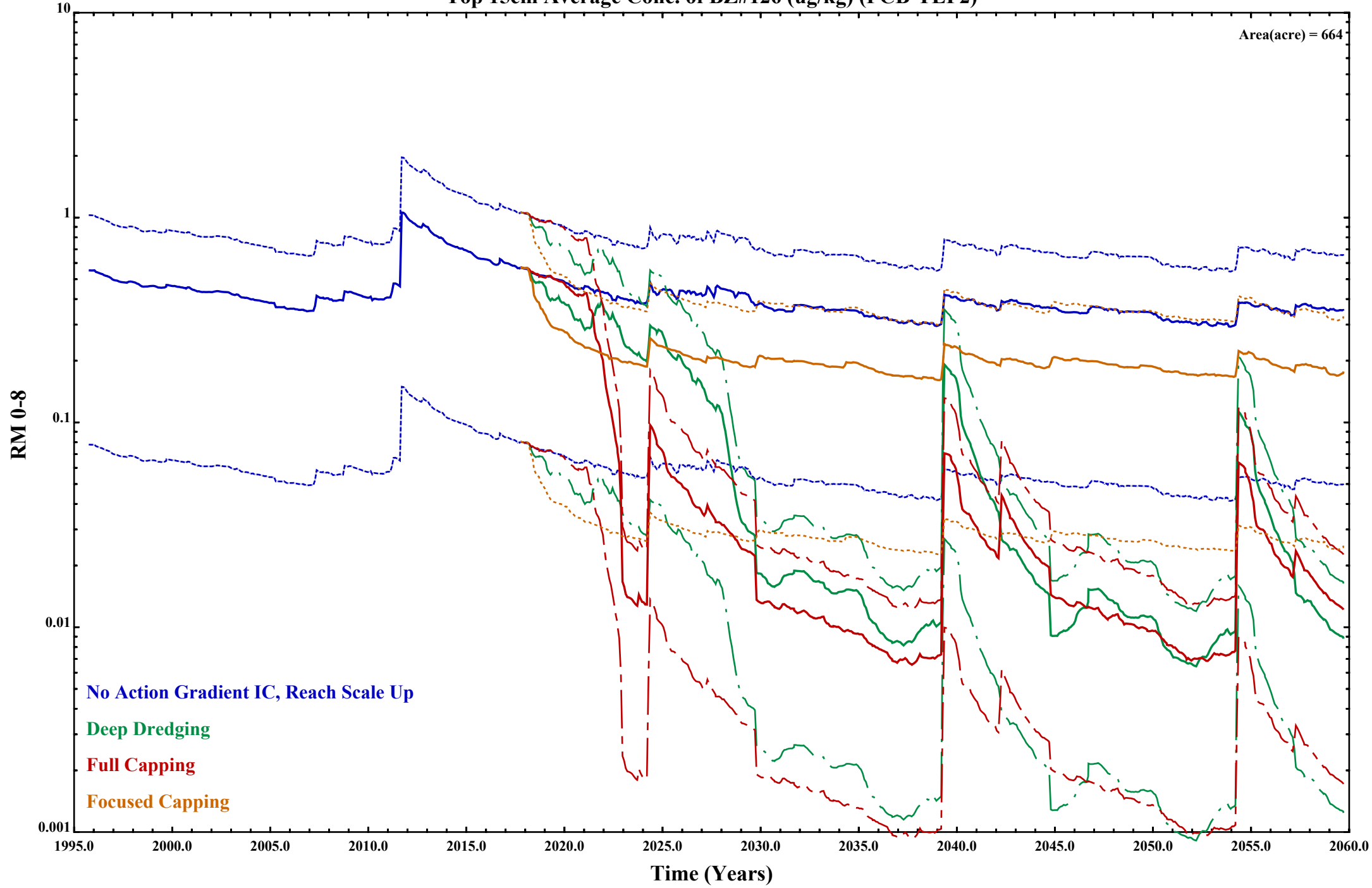


RM 0-8

- No Action Gradient IC, Reach Scale Up
- Deep Dredging
- Full Capping
- Focused Capping

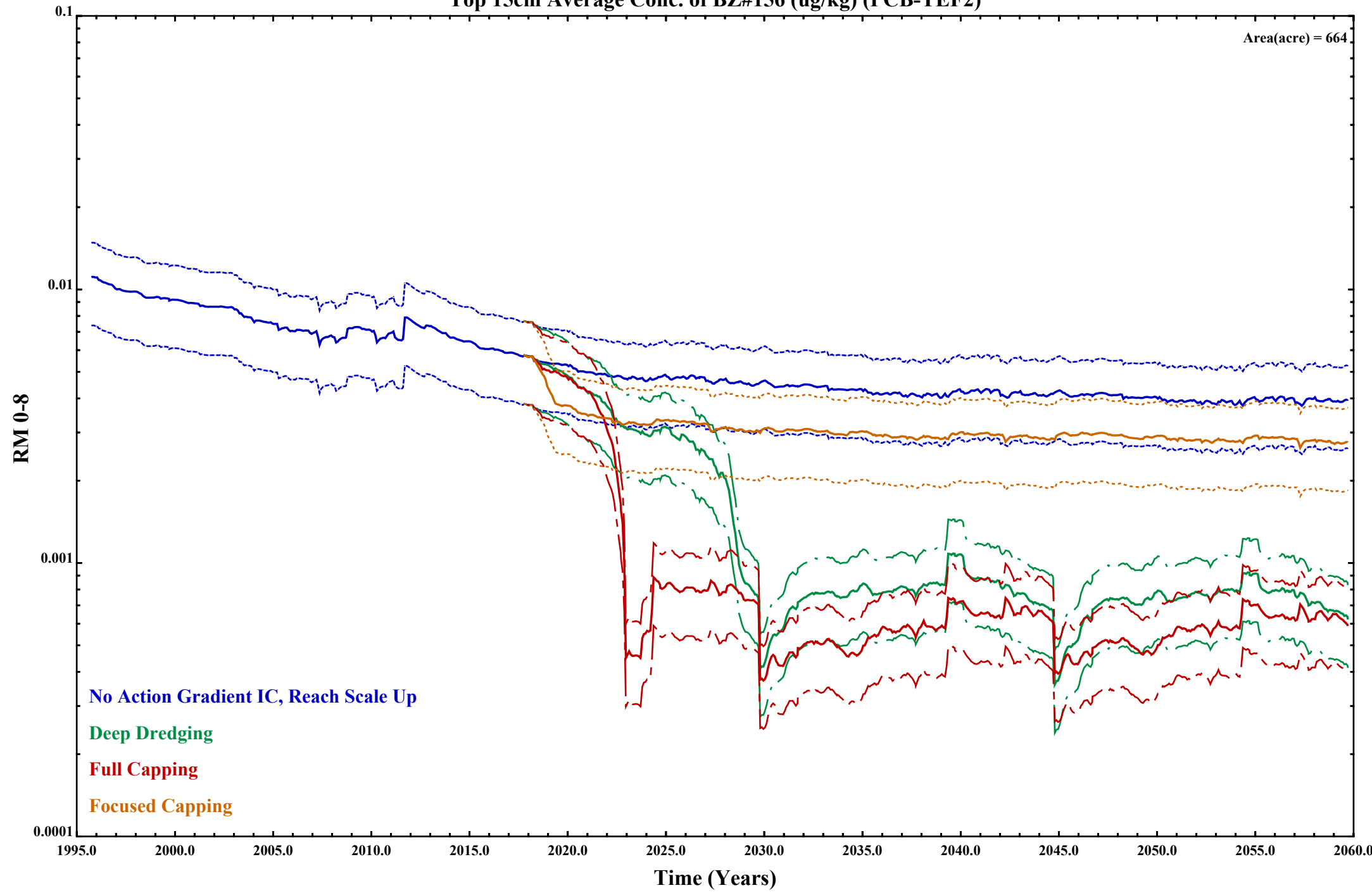
# Top 15cm Average Conc. of BZ#126 (ug/kg) (PCB-TEF2)

Area(acre) = 664



# Top 15cm Average Conc. of BZ#156 (ug/kg) (PCB-TEF2)

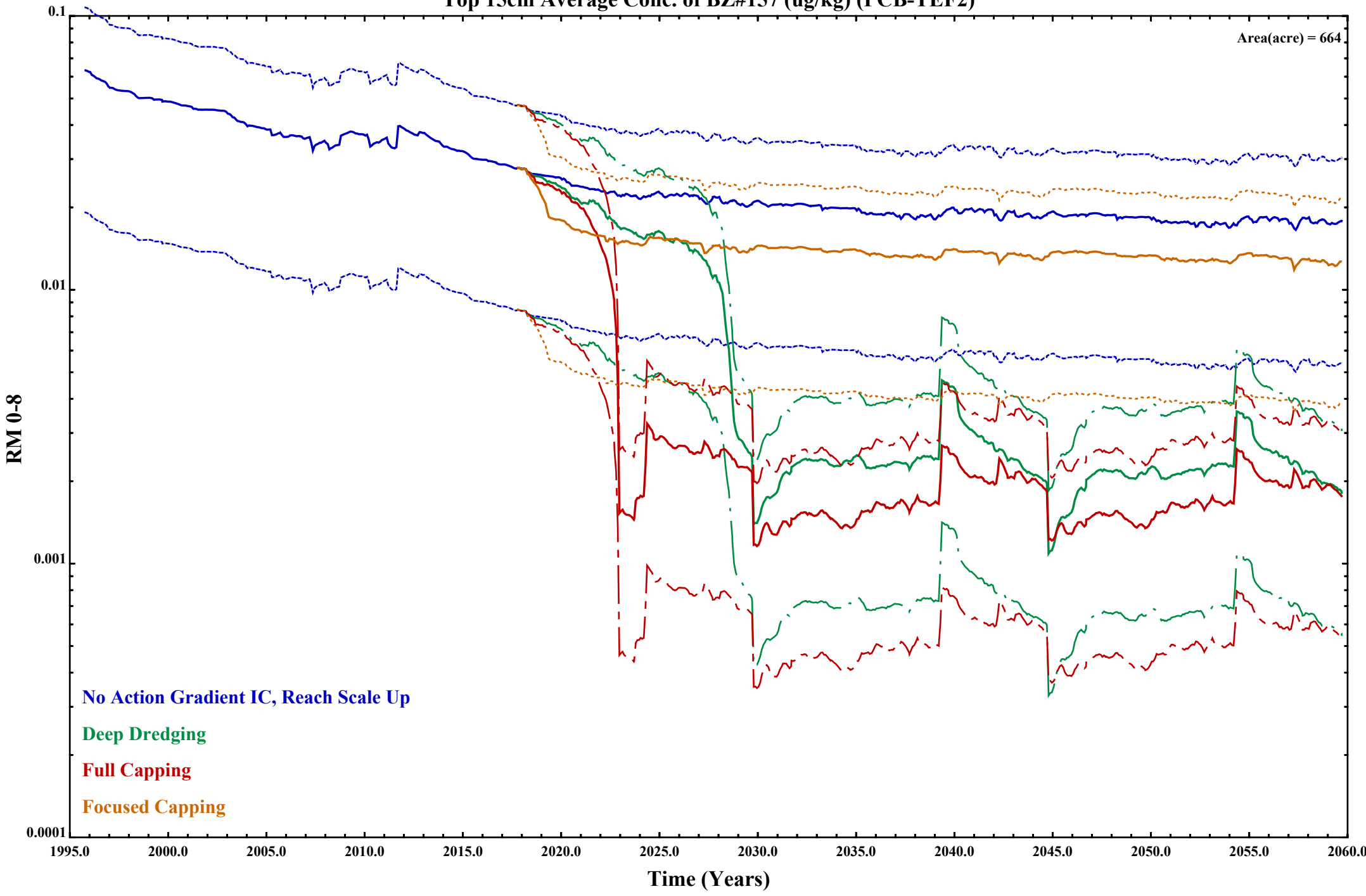
Area(acre) = 664



No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

# Top 15cm Average Conc. of BZ#157 (ug/kg) (PCB-TEF2)

Area(acre) = 664



No Action Gradient IC, Reach Scale Up

Deep Dredging

Full Capping

Focused Capping

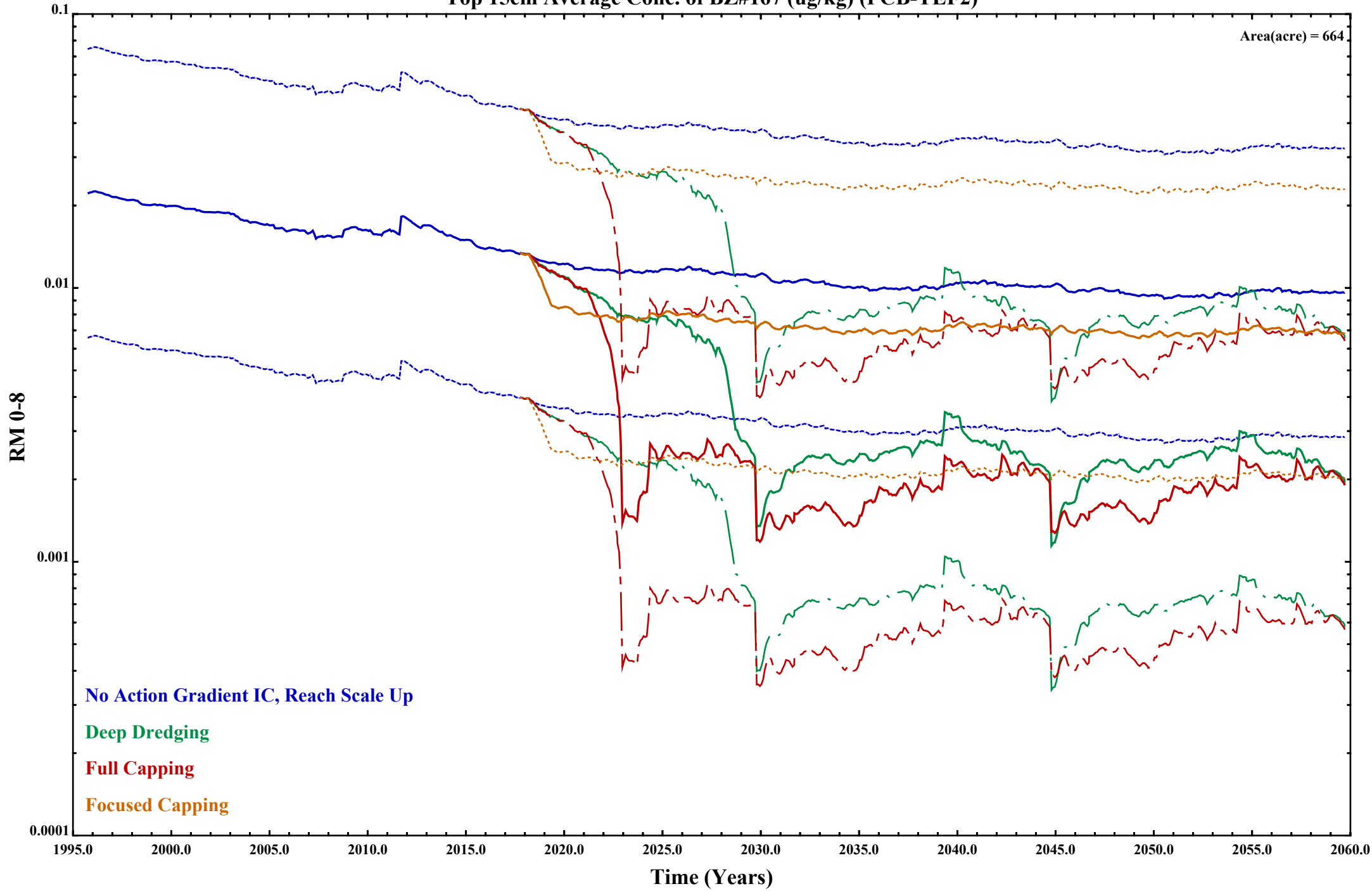
Time (Years)

RM 0-8



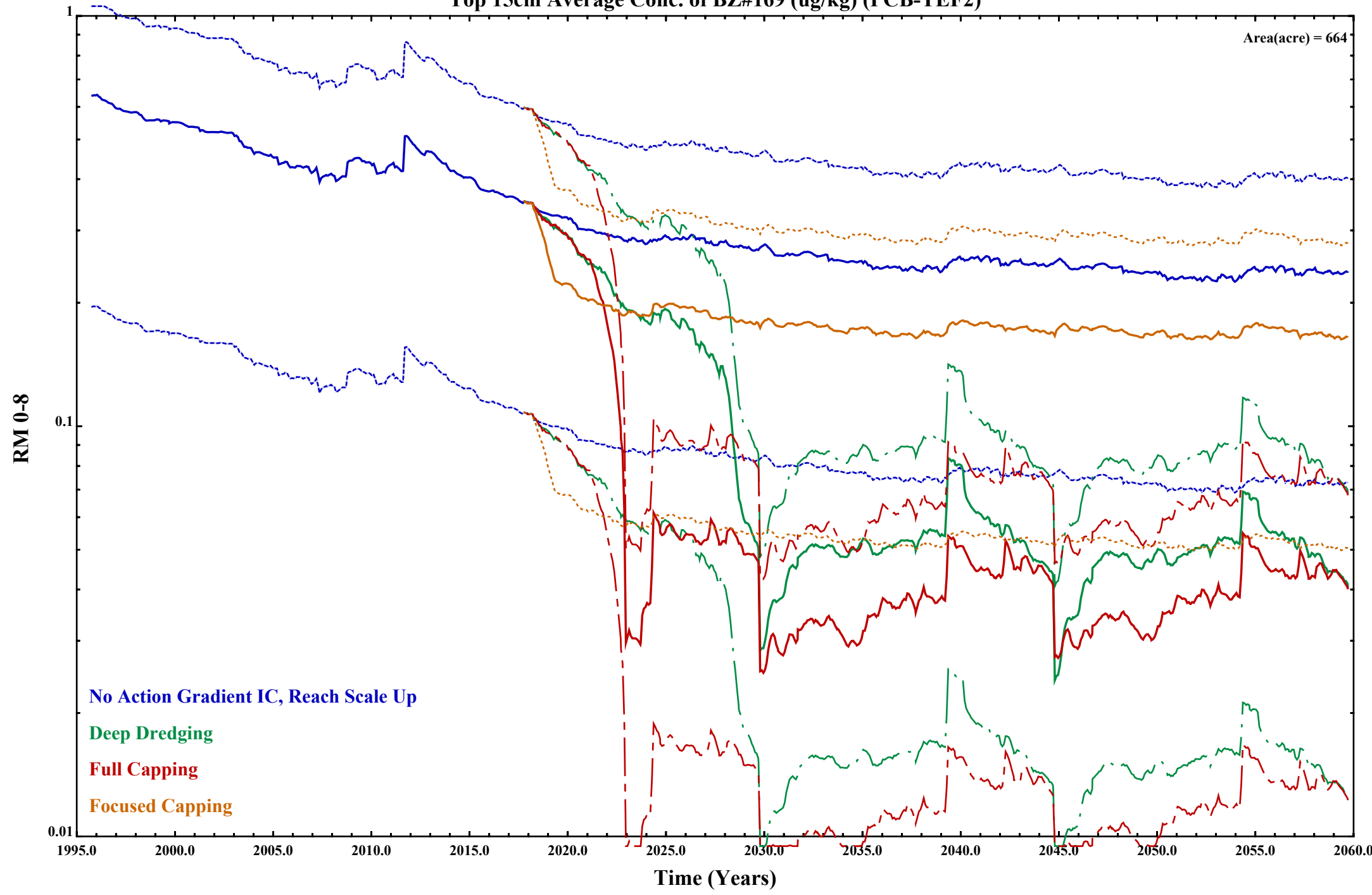
# Top 15cm Average Conc. of BZ#167 (ug/kg) (PCB-TEF2)

Area(acre) = 664



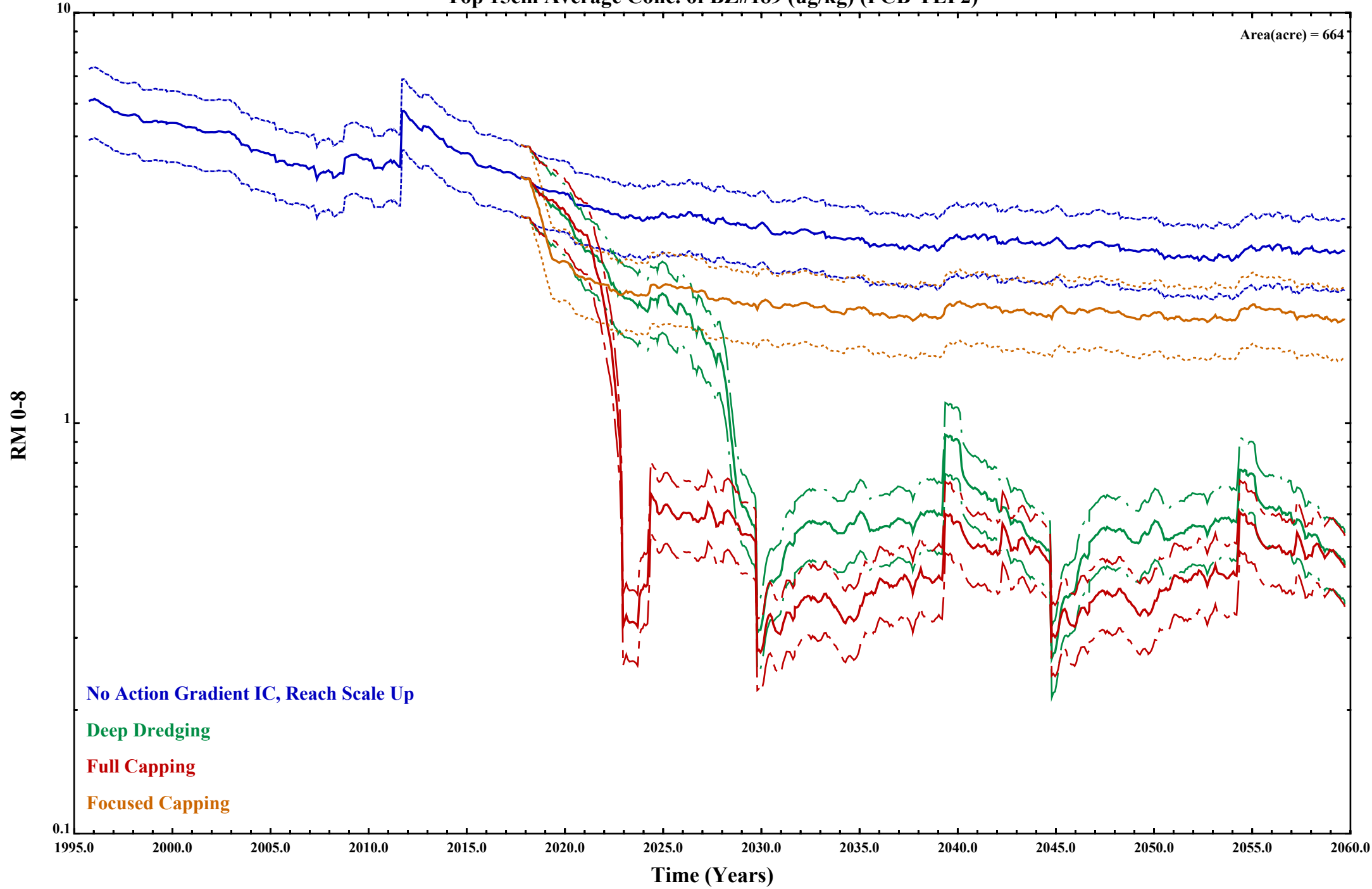
# Top 15cm Average Conc. of BZ#169 (ug/kg) (PCB-TEF2)

Area(acre) = 664



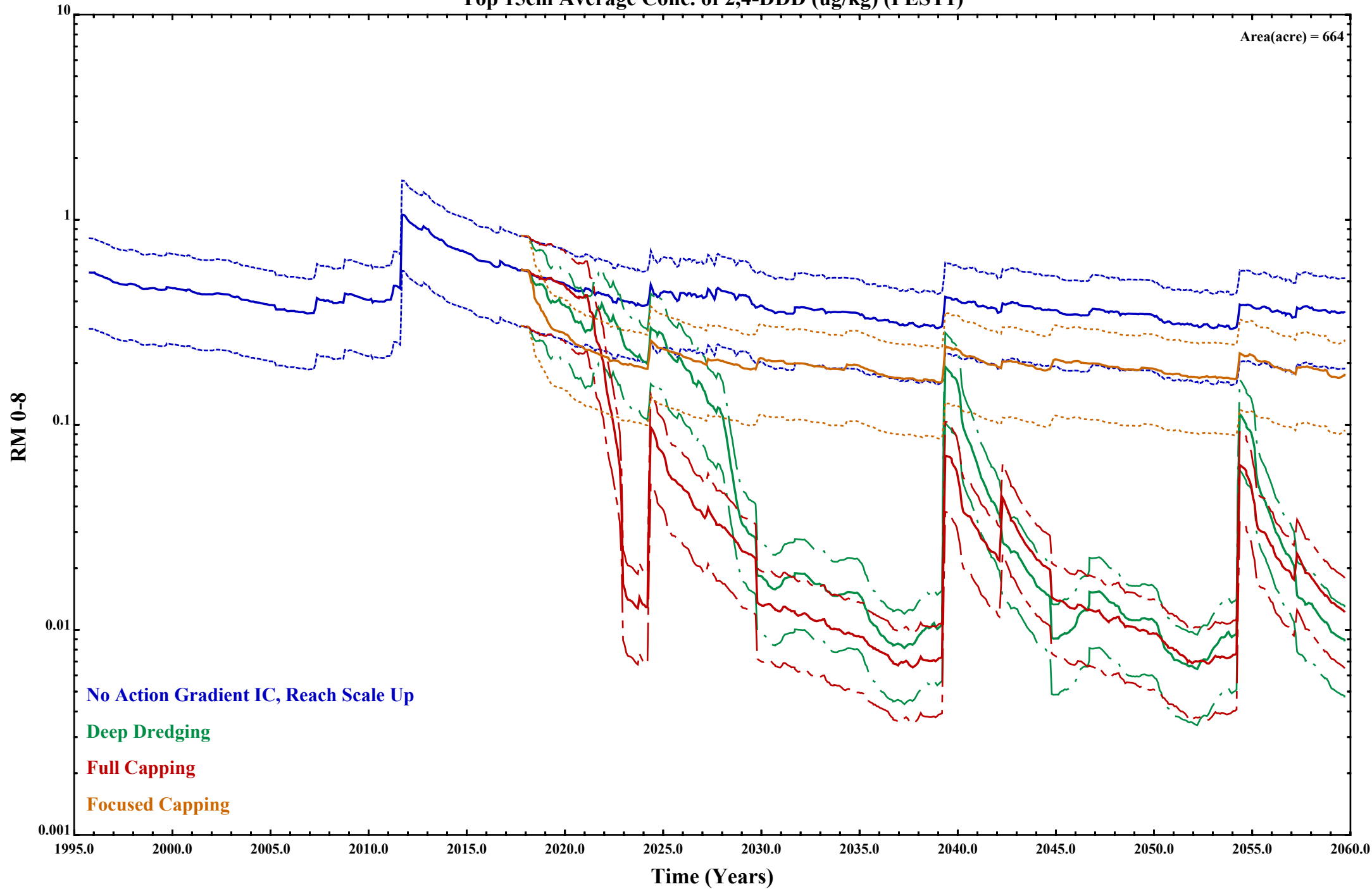
# Top 15cm Average Conc. of BZ#189 (ug/kg) (PCB-TEF2)

Area(acre) = 664



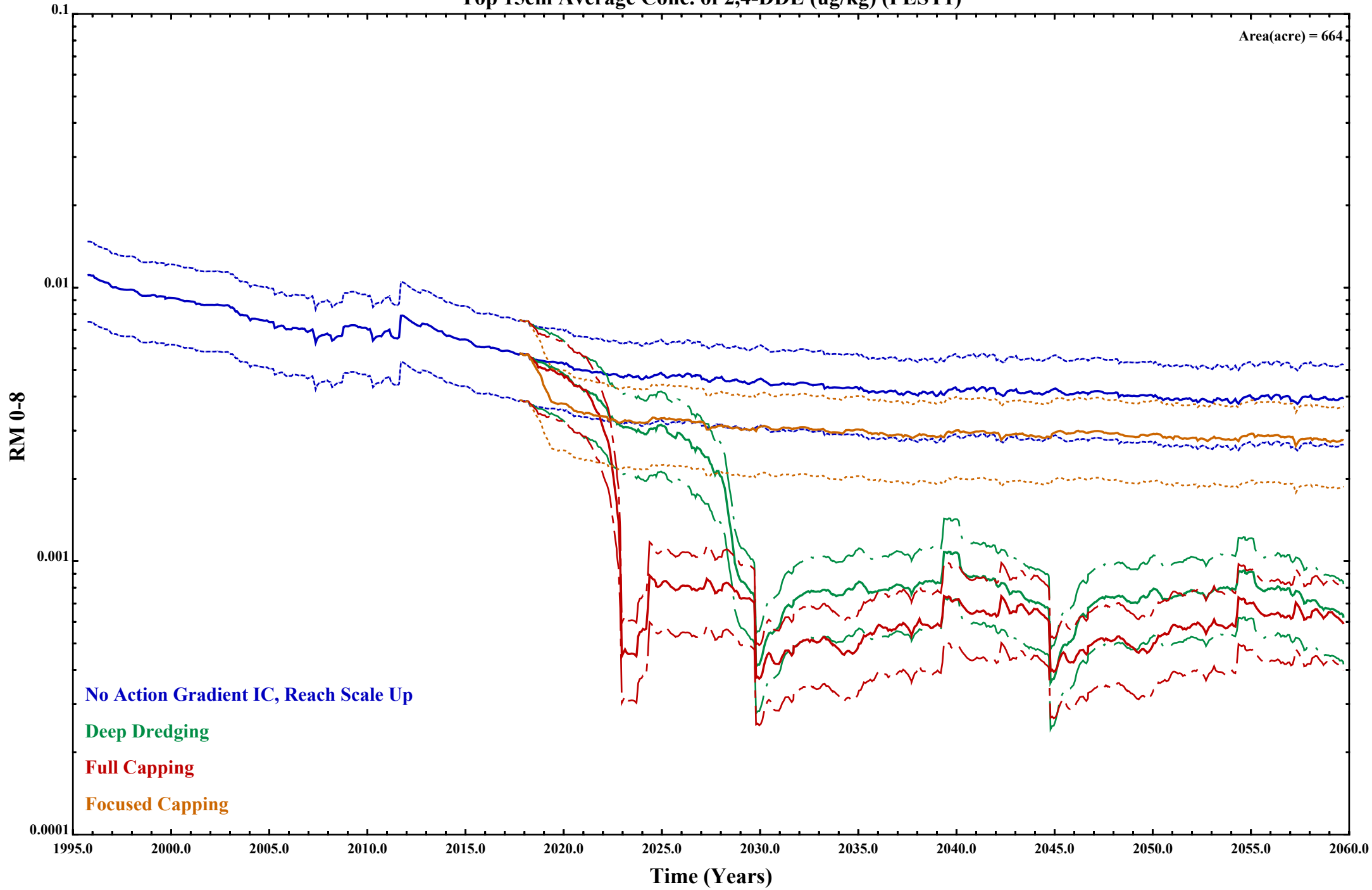
# Top 15cm Average Conc. of 2,4-DDD (ug/kg) (PEST1)

Area(acre) = 664



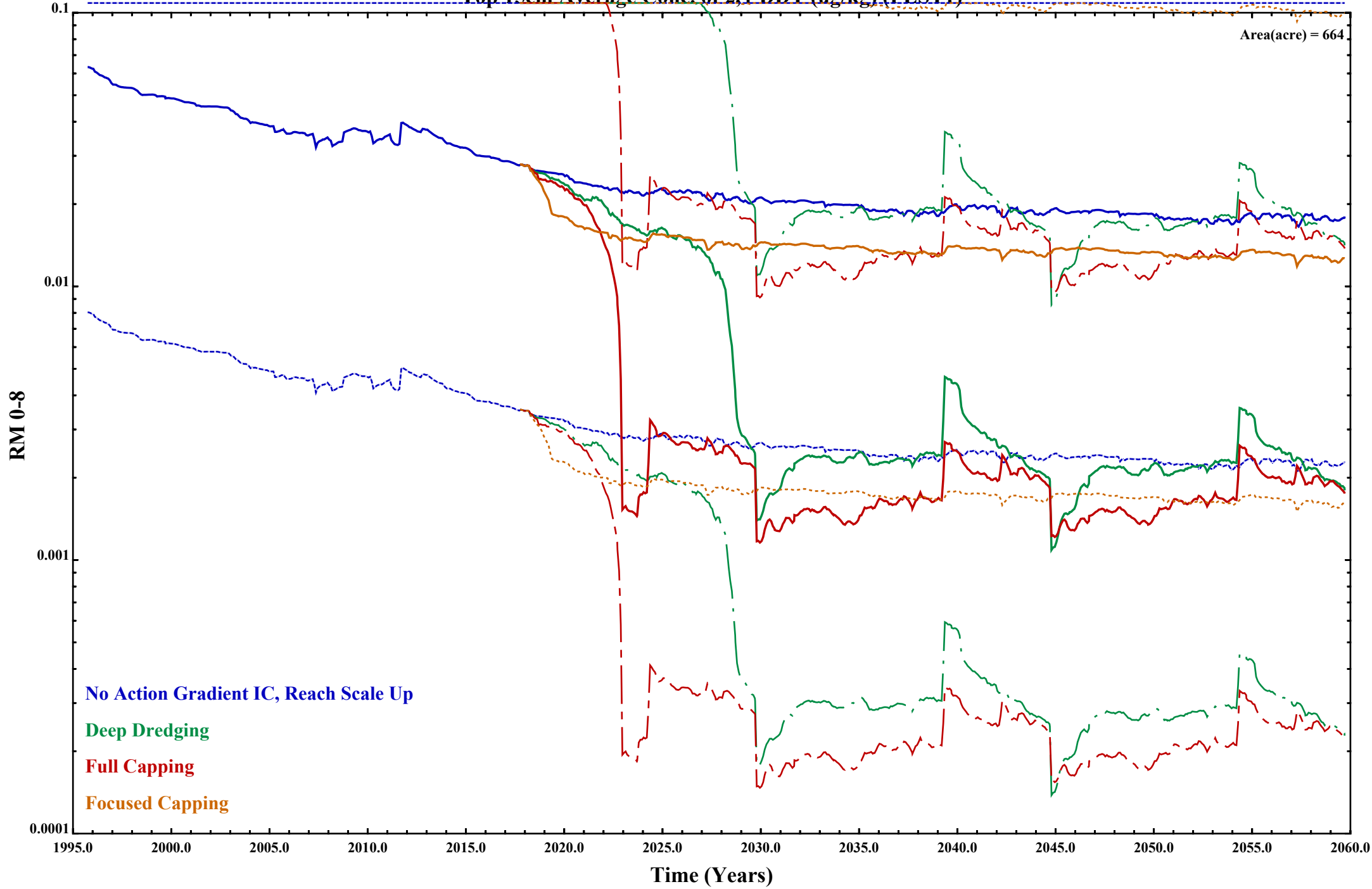
# Top 15cm Average Conc. of 2,4-DDE (ug/kg) (PEST1)

Area(acre) = 664



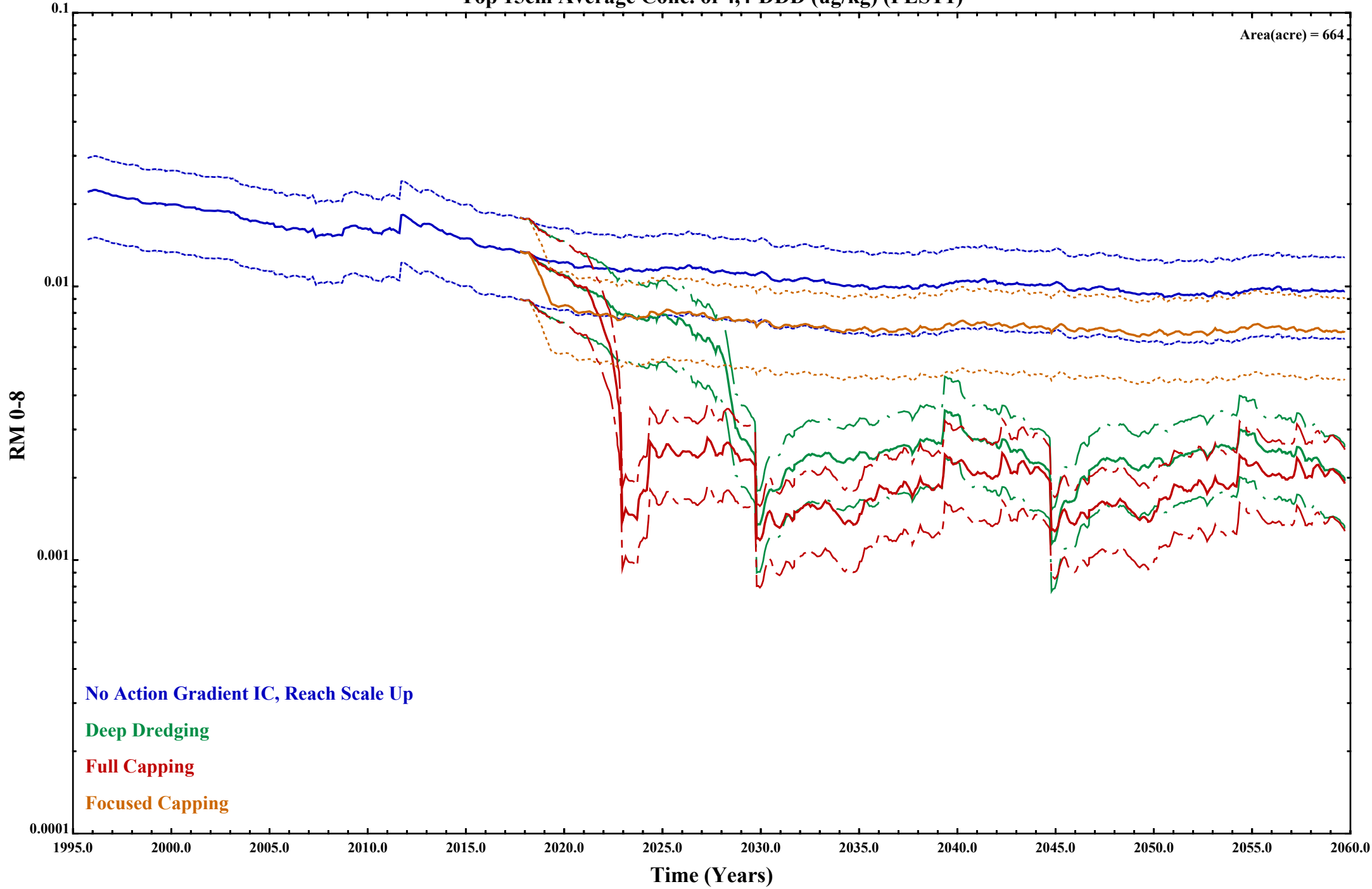
Top 15cm Average Conc. of 2,4-DDT (ug/kg) (PEST1)

Area(acre) = 664



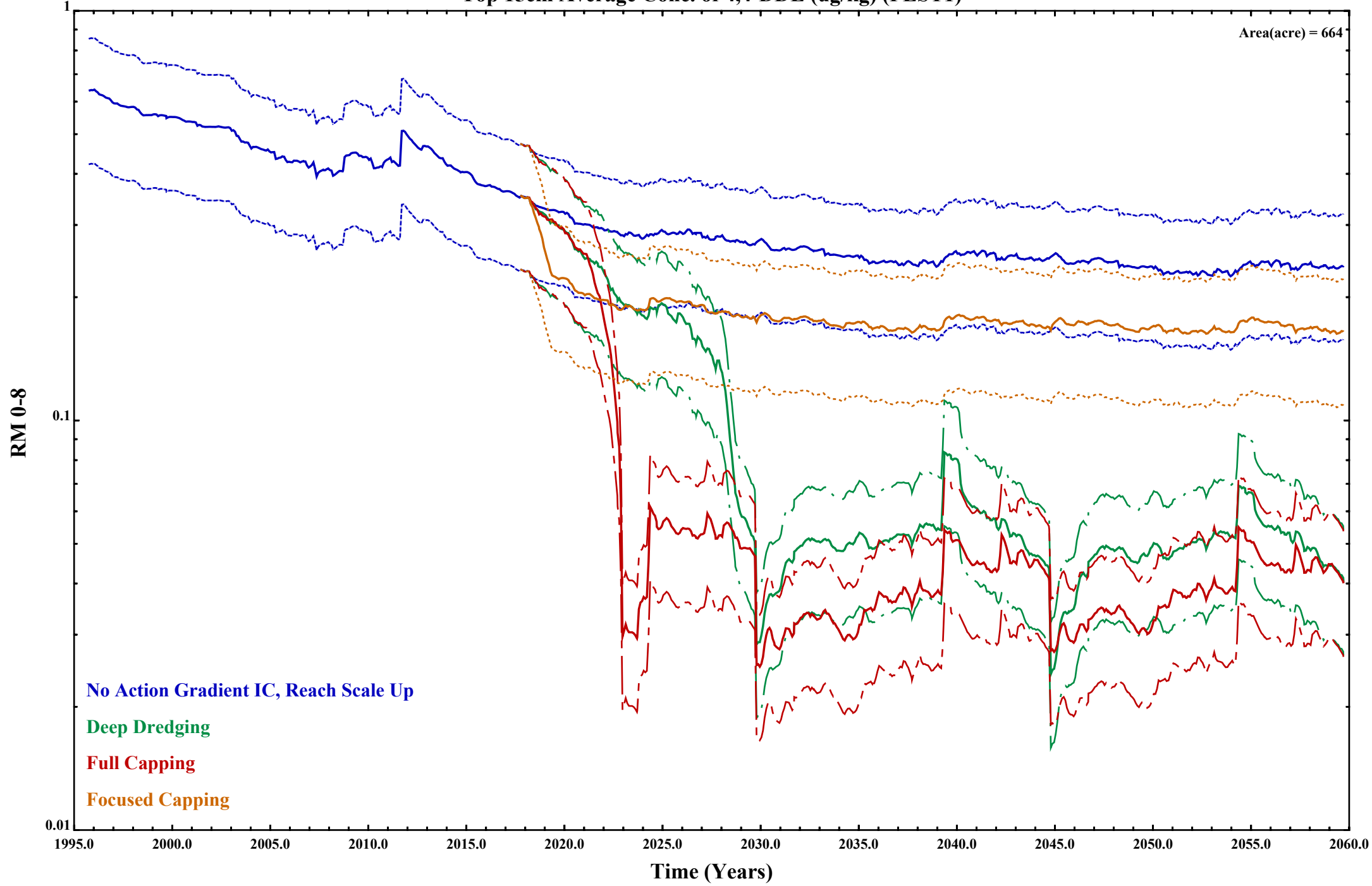
# Top 15cm Average Conc. of 4,4-DDD (ug/kg) (PEST1)

Area(acre) = 664



# Top 15cm Average Conc. of 4,4-DDE (ug/kg) (PEST1)

Area(acre) = 664

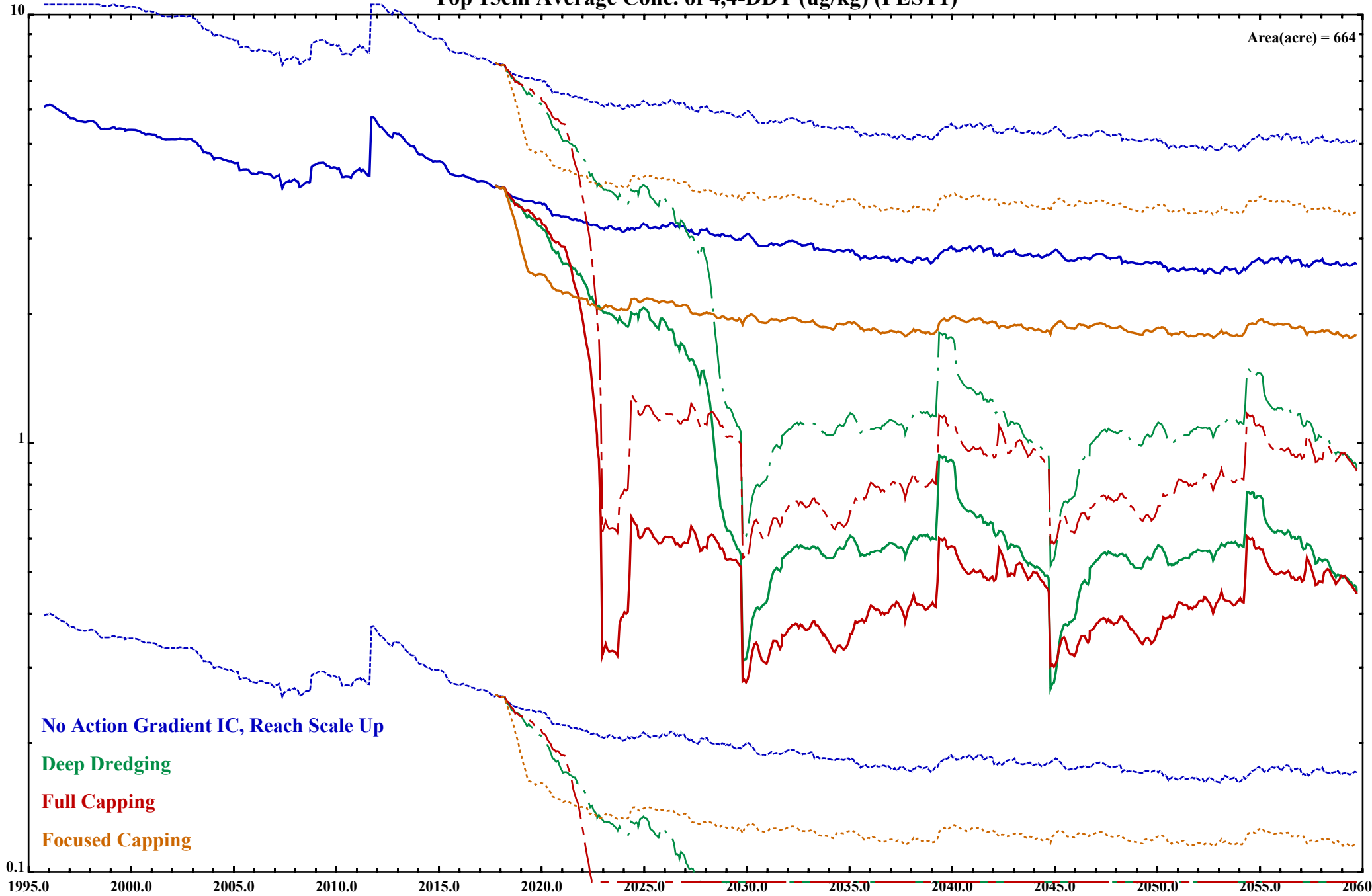




# Top 15cm Average Conc. of 4,4-DDT (ug/kg) (PEST1)

Area(acre) = 664

RM 0-8



No Action Gradient IC, Reach Scale Up

Deep Dredging

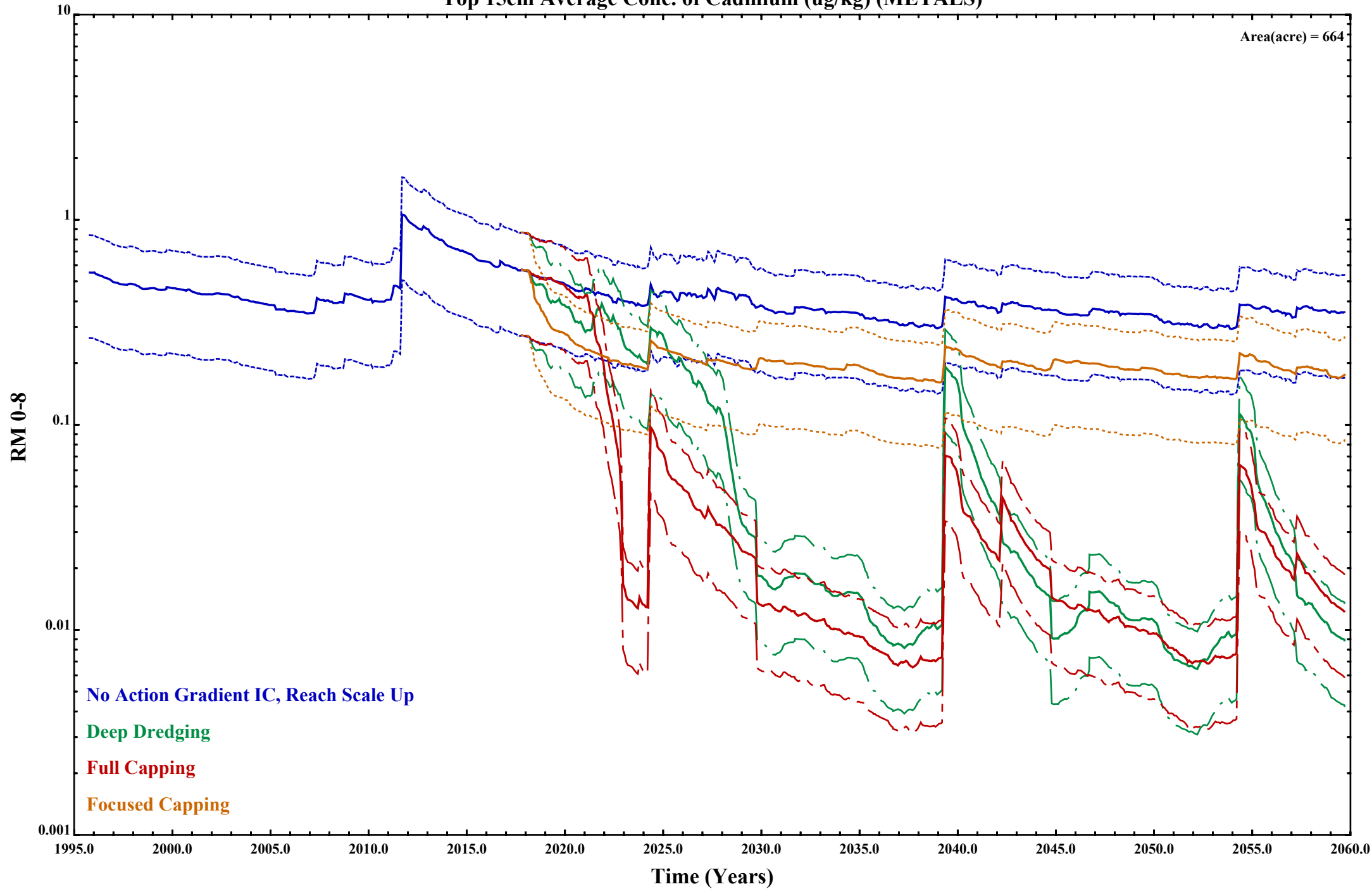
Full Capping

Focused Capping

Time (Years)

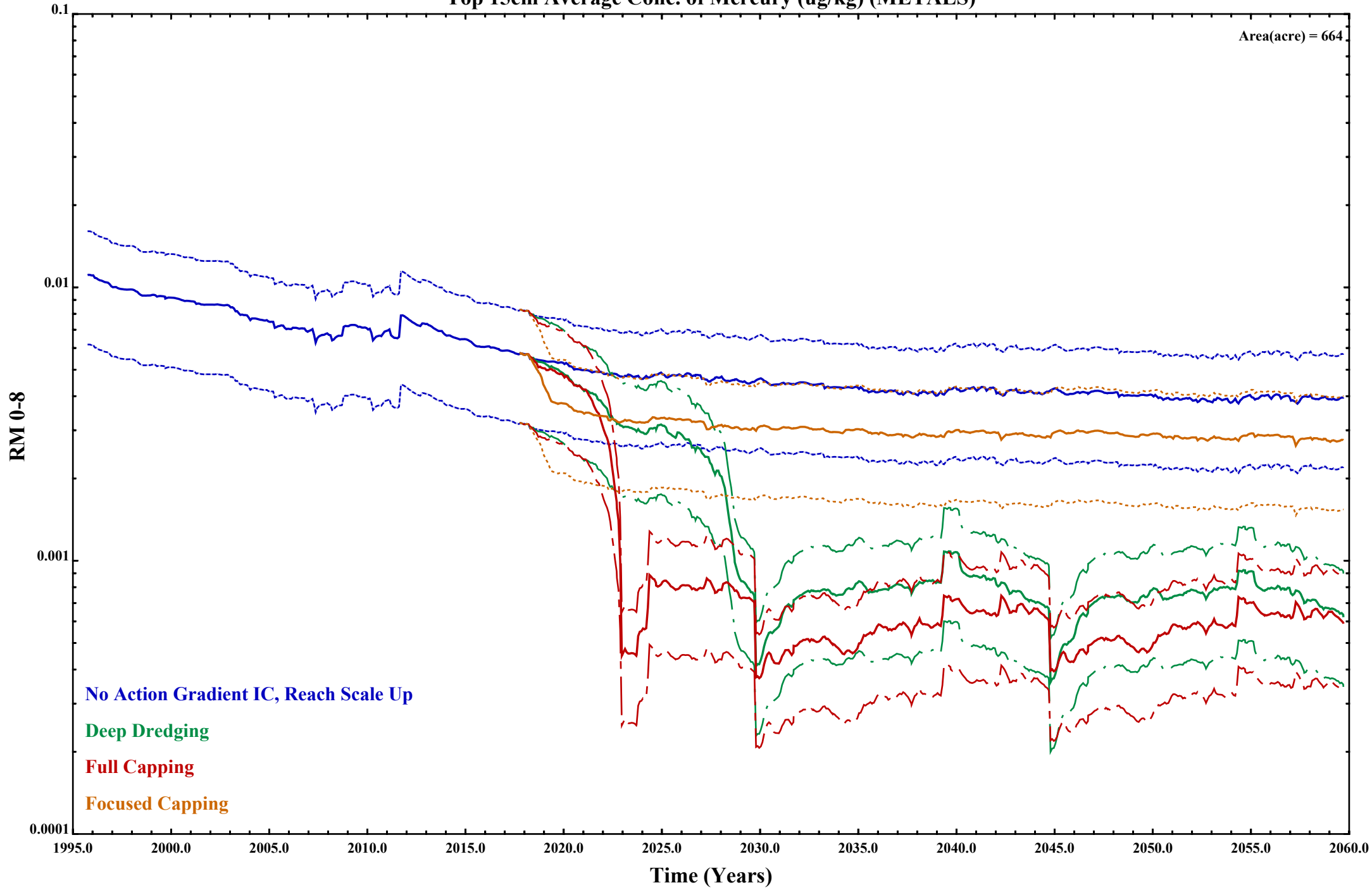
# Top 15cm Average Conc. of Cadmium (ug/kg) (METALS)

Area(acre) = 664



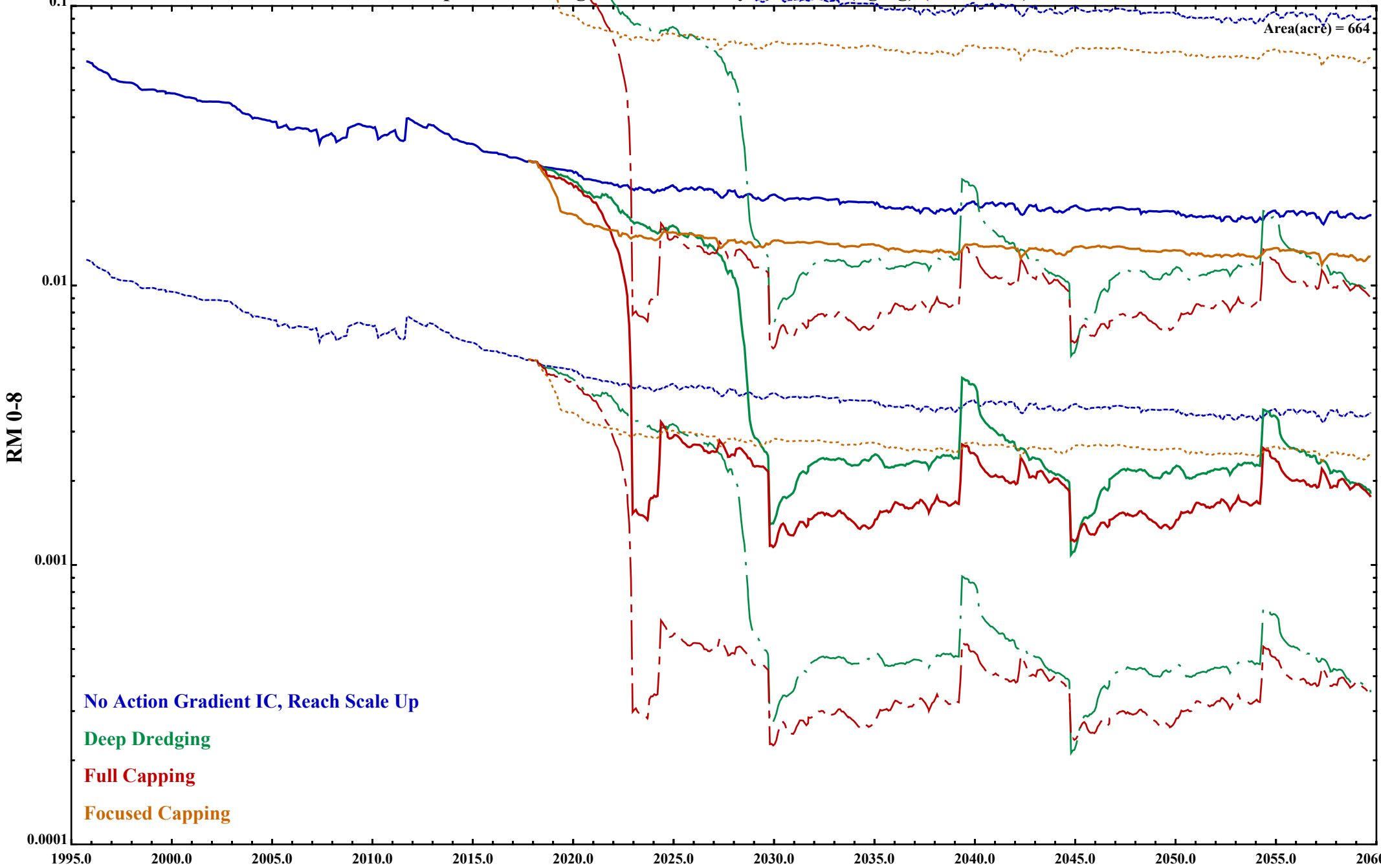
# Top 15cm Average Conc. of Mercury (ug/kg) (METALS)

Area(acre) = 664



Top 15cm Average Conc. of Methyl mercury (ug/kg) (METALS)

Area(acre) = 664



RM 0-8

No Action Gradient IC, Reach Scale Up  
Deep Dredging  
Full Capping  
Focused Capping

Time (Years)

**Attachment G**  
**Revisions to CARP Loads**

## **Application of the CARP Models to the Lower Passaic River Focused Feasibility Study**

### **Reevaluation of External Contaminant Loadings**

As part of the application of the Contamination Assessment and Reduction Project (CARP) models to support the Focused Feasibility Study (FFS) for the Lower Passaic River, external contaminant loadings used in the CARP models were re-evaluated in light of contaminant concentration data collected since the completion of CARP. The reevaluation of contaminant concentrations associated with external loadings include: head of tide inputs from the Upper Passaic River over Dundee Dam and from the Saddle, Second, and Third Rivers; CSO inputs, and SWO inputs. The contaminants considered include: 2,3,7,8-TCDD, 2,3,4,7,8-PCDF, di-CB, tetra-CB, hexa-CB, and octa-CB. The reevaluation is discussed below in terms of the external loading sources considered. Summary results of changes to contaminant loading concentration CARP model inputs are presented in Tables 1 and 2.

#### *Dundee Dam*

The assignment of contaminant loading concentrations for the Passaic River at Dundee Dam in the CARP models included specification of a median dissolved phase concentration and a median particulate concentration on an organic carbon normalized basis. Median dissolved and median particulate concentrations were developed based on water column measurements made by CARP at Little Falls, upstream of Dundee Dam. After the completion of CARP, as part of the Lower Passaic River Remedial Investigation and Feasibility Study (RI/FS) and supporting the development of the Lower Passaic River Conceptual Site Model (CSM), particulate phase contaminant data were collected in the vicinity of Dundee Dam. The particulate phase contaminant loading data for Dundee Dam for the CSM included water column, surface sediments, and sediment traps.

To generate a more robust estimate of the median particulate phase contaminant concentrations, these two data sets (i.e., CSM and CARP) were combined as part of the reevaluation effort of external loading estimates for the FFS. While the consideration of both data sets resulted in some modifications to the median particulate contaminant concentrations specified for CARP model application in support of the FFS, it confirmed the original CARP loading estimates for particulate phase 2,3,4,7,8-PCDF and tetra-, hexa-, and octa- CB coming over the Dundee Dam. Figures in Appendix 1 display the data and the original CARP model input values. Table 1 shows a comparison between original CARP and CARP FFS application model input concentrations. In addition to adjustments to particulate phase contaminant loading concentrations for modeling use, model inputs for dissolved phase contaminant loading concentrations were adjusted as indicated in Table 1, consistent with the particulate phase concentrations, to maintain appropriate contaminant phase partitioning.

#### *Saddle River*

CARP did not make any measurements of contaminant concentrations at head of tide for the Saddle River. Accordingly, Saddle River contaminant loading concentrations in the CARP models were assigned based on lowest values observed in other tributaries for which contaminant concentrations were measured. In most cases, this was the Hackensack River at the Oradell Dam where there is a drinking water supply. The assignment of contaminant concentrations for the

Saddle River in the CARP models included specification of a median dissolved phase concentration and a median particulate concentration on an organic carbon normalized basis.

As part of the Lower Passaic River Remedial Investigation and Feasibility Study (RI/FS) and supporting the development of the Lower Passaic River Conceptual Site Model (CSM), particulate phase contaminant data were collected for the Saddle River. The measured median particulate phase contaminant concentrations normalized by organic carbon replaced the previous estimates developed by CARP for FFS CARP application. It is more scientific and technically defensible to base the Saddle River contaminant loading concentrations on data collected in the Saddle River than measurements collected elsewhere in the NY/NJ Harbor. Also, in the absence of data but with the intention of maintaining realistic ratios between the dissolved and particulate contaminant fractions, the median dissolved contaminant concentrations assigned for the Saddle River previously by CARP were adjusted to be consistent with the changes to particulate phase contaminant concentrations. Table 1 shows a comparison between the contaminant concentrations for the Saddle River loading used in the original CARP and as adjusted on the basis of the newer particulate phase data. Table 1 includes information for both dissolved and particulate contaminant phases.

#### *CSOs*

CARP reported measured CSO effluent contaminant concentration data for both dissolved and particulate contaminant phases simultaneously. CSO loading contaminant concentrations in the CARP models were specified as median total contaminant (i.e., dissolved phase plus particulate phase) based on the CARP data for both phases. As part of the Lower Passaic River Remedial Investigation and Feasibility Study (RI/FS) and supporting the development of the Lower Passaic River Conceptual Site Model (CSM), particulate phase contaminant concentration data were collected for CSO effluents. While these two data sets are not directly comparable (i.e., both phases vs. particulate phase only), examining them together provides an understanding of the reasonableness of each of the data sets. The two data sets agree reasonably well and the median concentrations developed as CARP model inputs for both phases, fall within the range of, but above the fiftieth percentile, as expected, of log probability distributions of the RI/FS CSM data for particulate phase only. Accordingly, no adjustments were made to CSO inputs for CARP model application in support of the FFS. Appendix 2 shows the comparisons between the CARP model inputs for dissolved plus particulate phases and the RI/FS CSM data for particulate phase only.

#### *SWOs*

CARP reported measured SWO effluent contaminant concentration data for both dissolved and particulate contaminant phases simultaneously. SWO loading contaminant concentrations in the CARP models were specified as median total contaminant (i.e., dissolved phase plus particulate phase) based on the CARP data for both phases. As part of the Lower Passaic River Remedial Investigation and Feasibility Study (RI/FS) and supporting the development of the Lower Passaic River Conceptual Site Model (CSM), particulate phase contaminant concentration data were collected for SWO effluents. While these two data sets are not directly comparable (i.e., both phases vs. particulate phase only), examining them together provides an understanding of the reasonableness of each of the data sets. The two data sets agree reasonably well for PCB

homologs and the median concentrations developed as CARP model inputs for both phases, fall within the range of, but above the fiftieth percentile, as expected, of log probability distributions of the RI/FS CSM data for particulate phase only. Accordingly, no adjustments were made to PCB homolog SWO inputs for CARP model application in support of the FFS. For the case of 2,3,7,8-TCDD and 2,3,4,7,8-PCDF, which are largely in the particulate phase, the median concentrations developed as CARP model inputs were too high (i.e., within the same order of magnitude as, but exceeding all, the RI/FS CSM data). Accordingly, CARP model concentration inputs for SWOs were adjusted down to the median concentrations measured for the RI/FS CSM for purposes of application to support the FFS. Appendix 2 shows the comparisons between the CARP model inputs for dissolved plus particulate phases and the RI/FS CSM data for particulate phase only. Table 2 includes the previous and new CARP model input concentrations.

#### *Second River and Third River*

CARP did not collect any data in the Second and Third Rivers. Further, the structure of the CARP models considers the Second and Third Rivers as though they were stormwater runoff (i.e., their flows carry the same contaminant concentrations assigned to SWOs). As part of the Lower Passaic River Remedial Investigation and Feasibility Study (RI/FS) and supporting the development of the Lower Passaic River Conceptual Site Model (CSM), particulate phase contaminant concentration data were collected for the Second and Third Rivers. The particulate phase contaminant concentrations measured in the Second and Third Rivers compare well with the particulate phase contaminant concentrations measured in SWOs. This demonstrates that the structure of the CARP model which considers the Second and Third Rivers as carrying contaminant concentrations similar to SWOs is reasonable. Probability diagrams of measured particulate phase contaminant concentrations in water samples from SWOs, the Second River, and the Third River are included in Appendix 2. This comparability between particulate phase contaminant concentrations in the two Rivers and SWO was also observed when samples from sediment traps and surficial sediments were also considered (see Appendix 1). The handling of the Second and Third Rivers as stormwater runoff in the CARP models will not change for the application of the CARP models to support the FFS.



Table 1. Summary of CARP Contaminant Loading Concentration Model Inputs  
Re-Evaluation for Lower Passaic River FFS Application

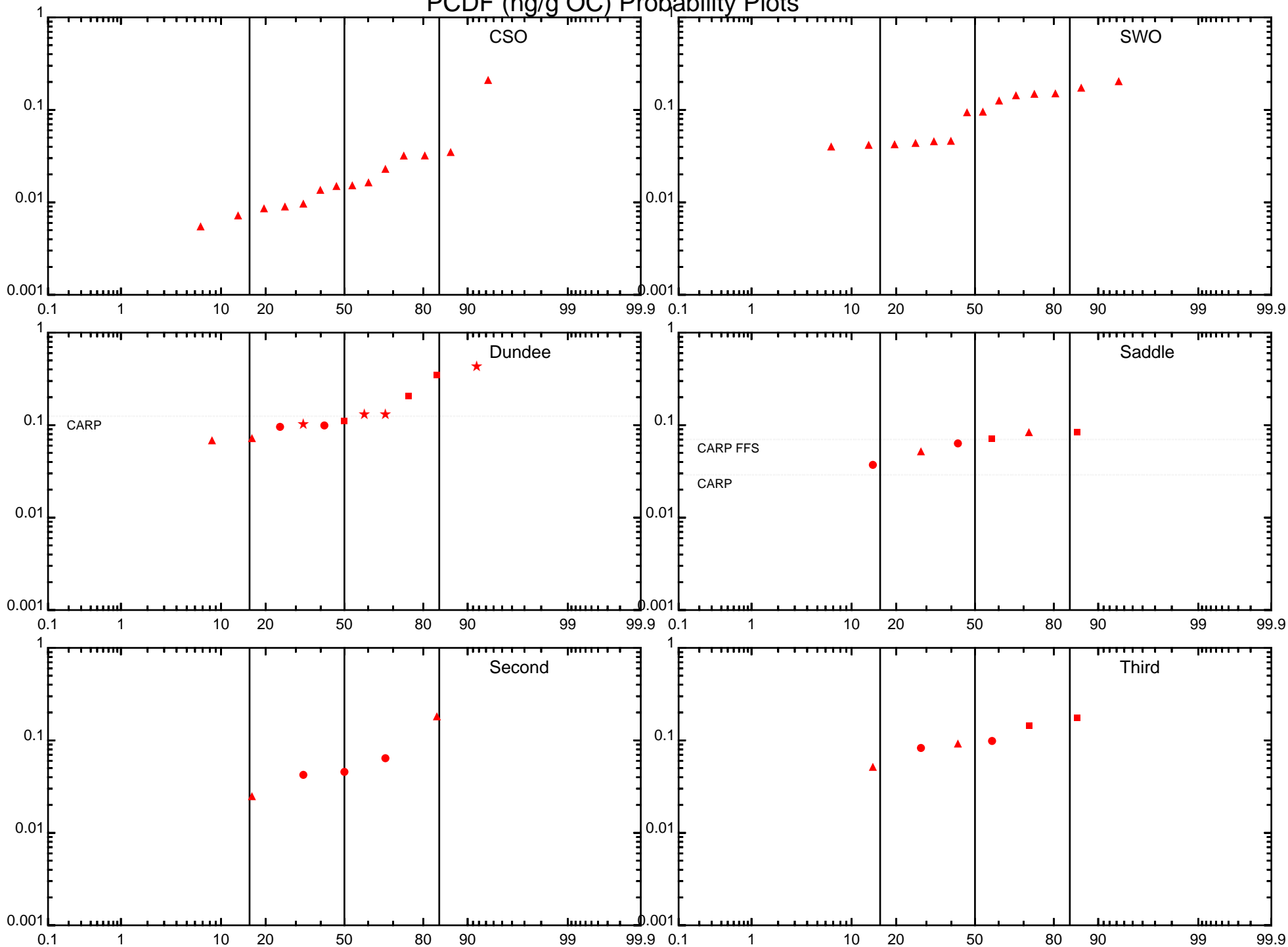
Contaminant	Application	Dundee Dam particulate phase	Dundee Dam dissolved phase	Saddle River particulate phase	Saddle River dissolved phase
2,3,7,8-TCDD	CARP	0.6462 ng/g OC	0.0113 pg/L	0.0076 ng/g OC	0.0113 pg/L
	FFS CARP	0.0441 ng/g OC	0.0008 pg/L	0.0300 ng/g OC	0.0446 pg/L
2,3,4,7,8-PCDF	CARP	0.1250 ng/g OC	0.0150 pg/L	0.0290 ng/g OC	0.0150 pg/L
	FFS CARP	as above	as above	0.0700 ng/g OC	0.0362 pg/L
di-CB	CARP	0.0365 ug/g OC	0.0835 ng/L	0.0063 ug/g OC	0.0075 ng/L
	FFS CARP	0.1331 ug/g OC	0.3045 ng/L	0.0864 ug/g OC	0.1029 ng/L
tetra-CB	CARP	1.1965 ug/g OC	0.5820 ng/L	0.0936 ug/g OC	0.1300 ng/L
	FFS CARP	1.4554 ug/g OC	0.7079 ng/L	0.5000 ug/g OC	0.6944 ng/L
hexa-CB	CARP	0.8700 ug/g OC	0.0496 ng/L	0.1261 ug/g OC	0.0167 ng/L
	FFS CARP	1.3192 ug/g OC	0.0752 ng/L	0.7000 ug/g OC	0.0927 ng/L
octa-CB	CARP	0.1320 ug/g OC	0.0014 ng/L	0.0196 ug/g OC	0.0137 ng/L
	FFS CARP	0.1967 ug/g OC	0.0021 ng/L	0.0800 ug/g OC	0.0559 ng/L

Table 2. Summary of CARP Contaminant Loading Concentration Model Inputs  
 Re-Evaluation for Lower Passaic River FFS Application

Contaminant	Application	CSO	SWO	Second River	Third River
2,3,7,8-TCDD	CARP	0.3200 pg/L	3.3000 pg/L	3.3000 pg/L	3.3000 pg/L
	FFS CARP	as above	0.2175 pg/L	0.2175 pg/L	0.2175 pg/L
2,3,4,7,8-PCDF	CARP	1.5900 pg/L	7.4000 pg/L	7.4000 pg/L	7.4000 pg/L
	FFS CARP	as above	0.4715 pg/L	0.4715 pg/L	0.4715 pg/L
di-CB	CARP	0.4110 ng/L	0.6070 ng/L	0.6070 ng/L	0.6070 ng/L
	FFS CARP	as above	as above	as above	as above
tetra-CB	CARP	4.9200 ng/L	7.0700 ng/L	7.0700 ng/L	7.0700 ng/L
	FFS CARP	as above	as above	as above	as above
hexa-CB	CARP	6.7300 ng/L	8.8100 ng/L	8.8100 ng/L	8.8100 ng/L
	FFS CARP	as above	as above	as above	as above
octa-CB	CARP	1.2000 ng/L	1.0900 ng/L	1.0900 ng/L	1.0900 ng/L
	FFS CARP	as above	as above	as above	as above

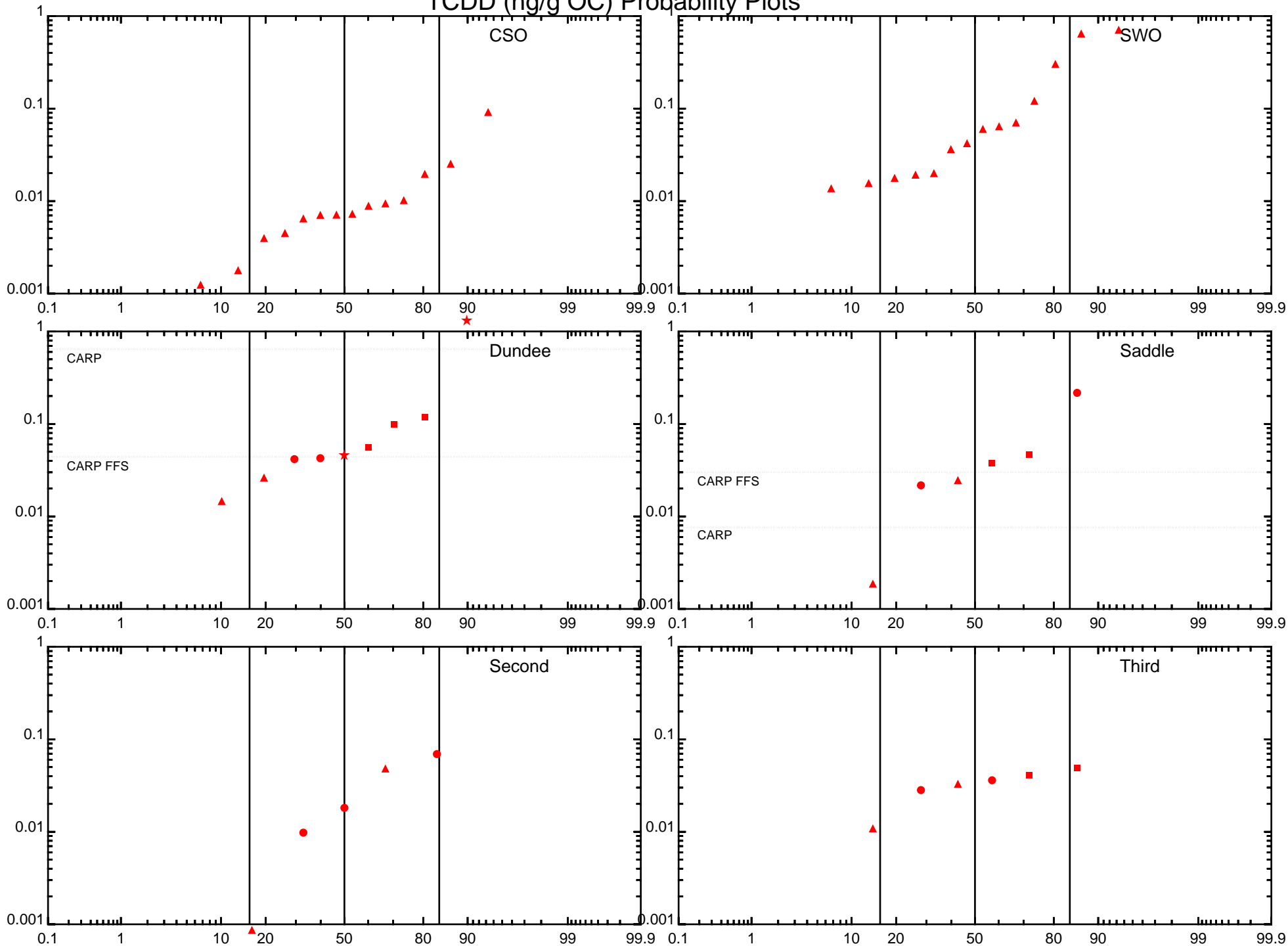
**APPENDIX 1**  
**Particle Phase Contaminant Loading Concentration Data Measured in Support of the CSM**  
**with Carbon Normalization and Comparisons to Particulate Phase Contaminant Loading**  
**Concentration CARP Model Inputs**

# PCDF (ng/g OC) Probability Plots



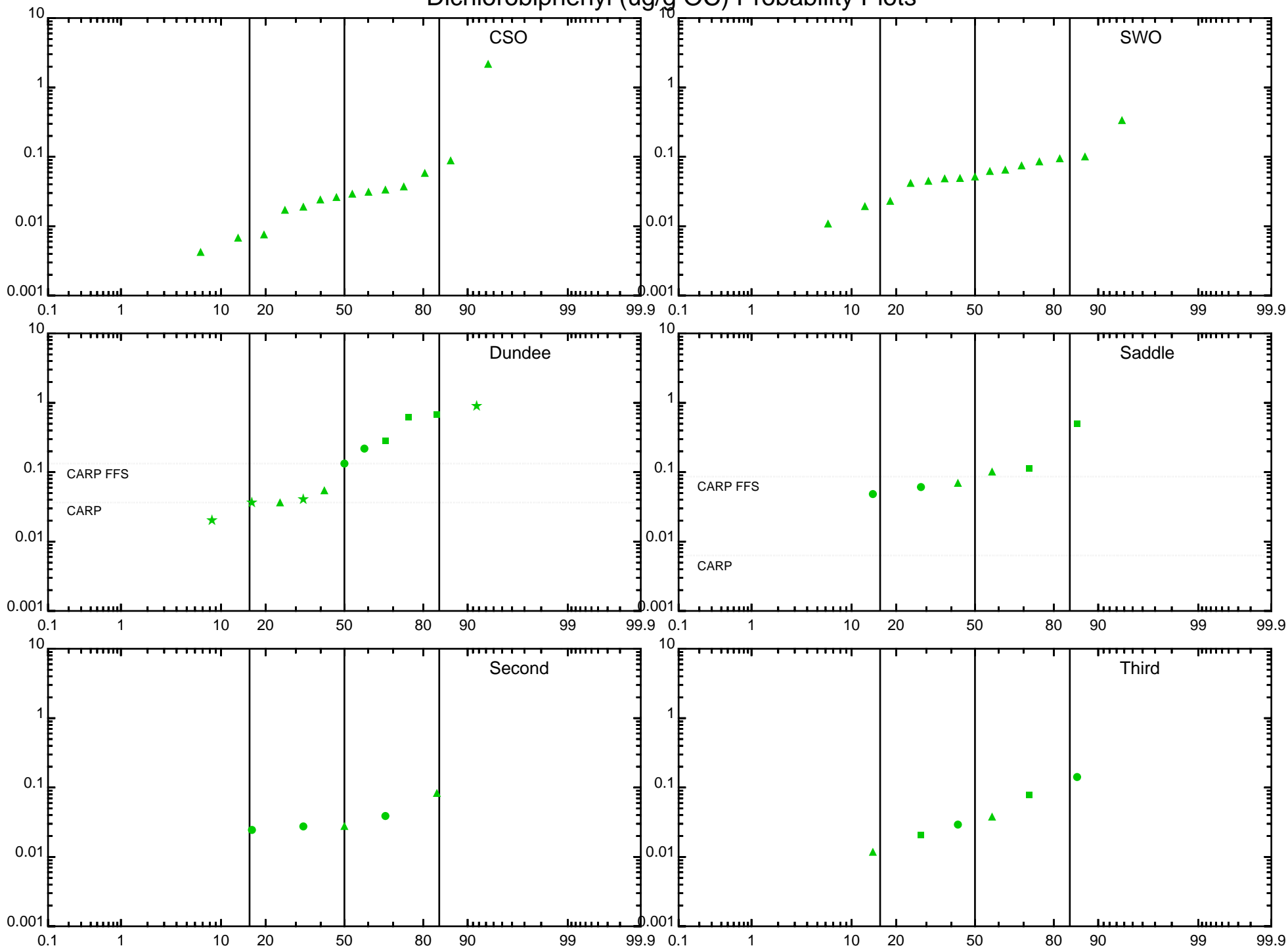
▲ Water Column      ■ Surface Sediment      ● Sediment Trap      ★ CARP Little Falls

# TCDD (ng/g OC) Probability Plots



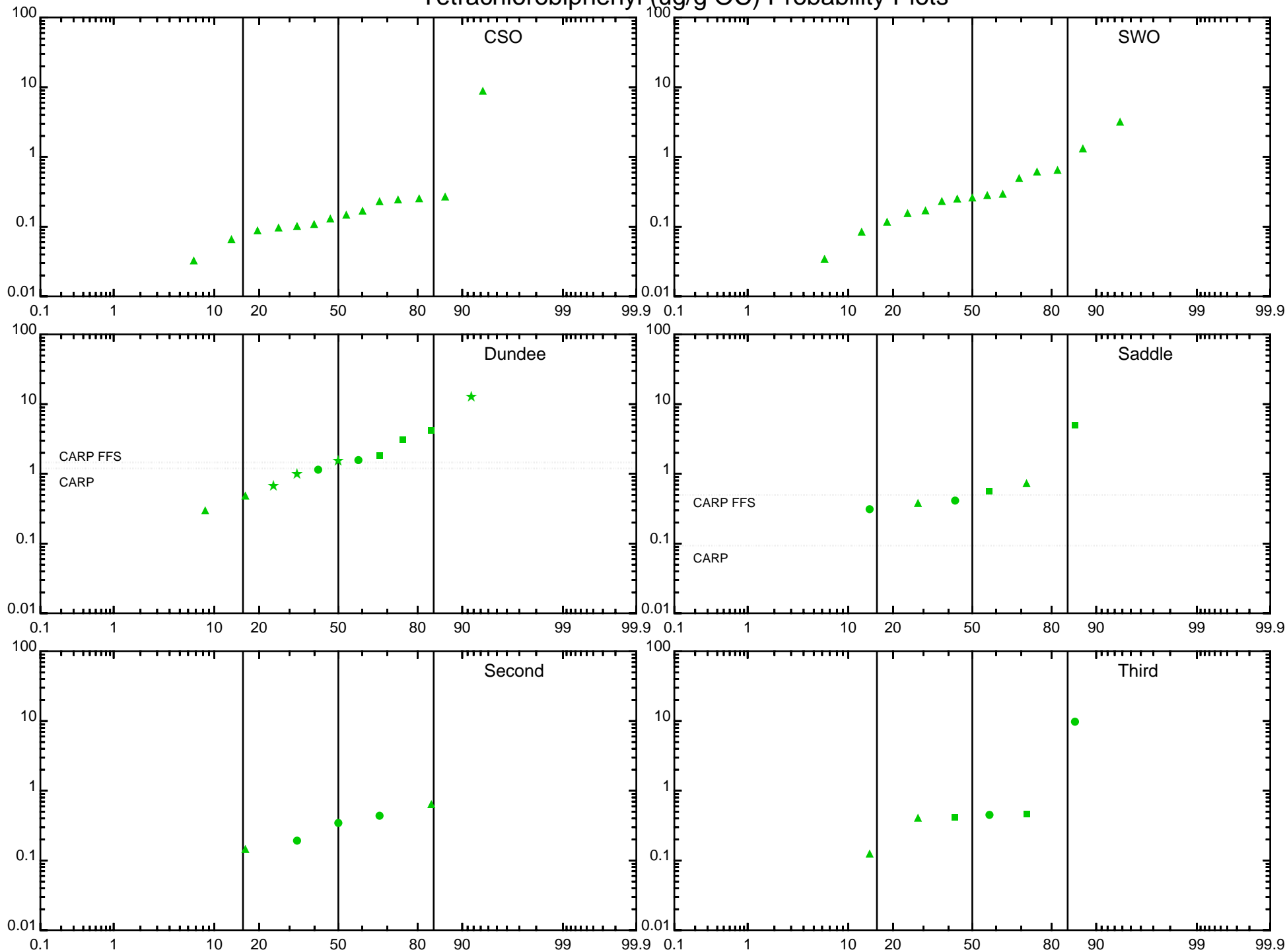
▲ Water Column     
 ■ Surface Sediment     
 ● Sediment Trap     
 ★ CARP Little Falls

# Dichlorobiphenyl (ug/g OC) Probability Plots



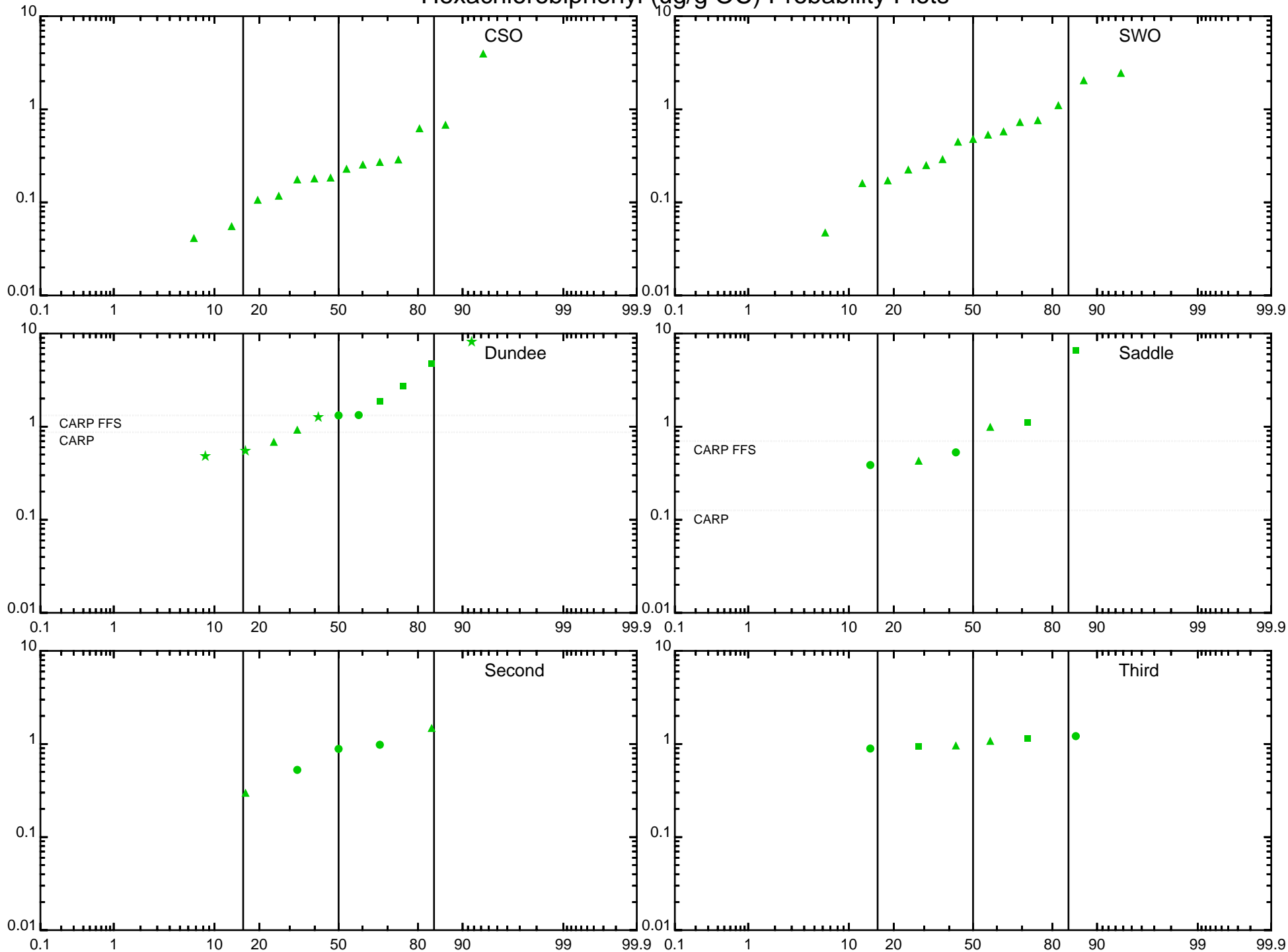
▲ Water Column      ■ Surface Sediment      ● Sediment Trap      ★ CARP Little Falls

# Tetrachlorobiphenyl (ug/g OC) Probability Plots



▲ Water Column     
 ■ Surface Sediment     
 ● Sediment Trap     
 ★ CARP Little Falls

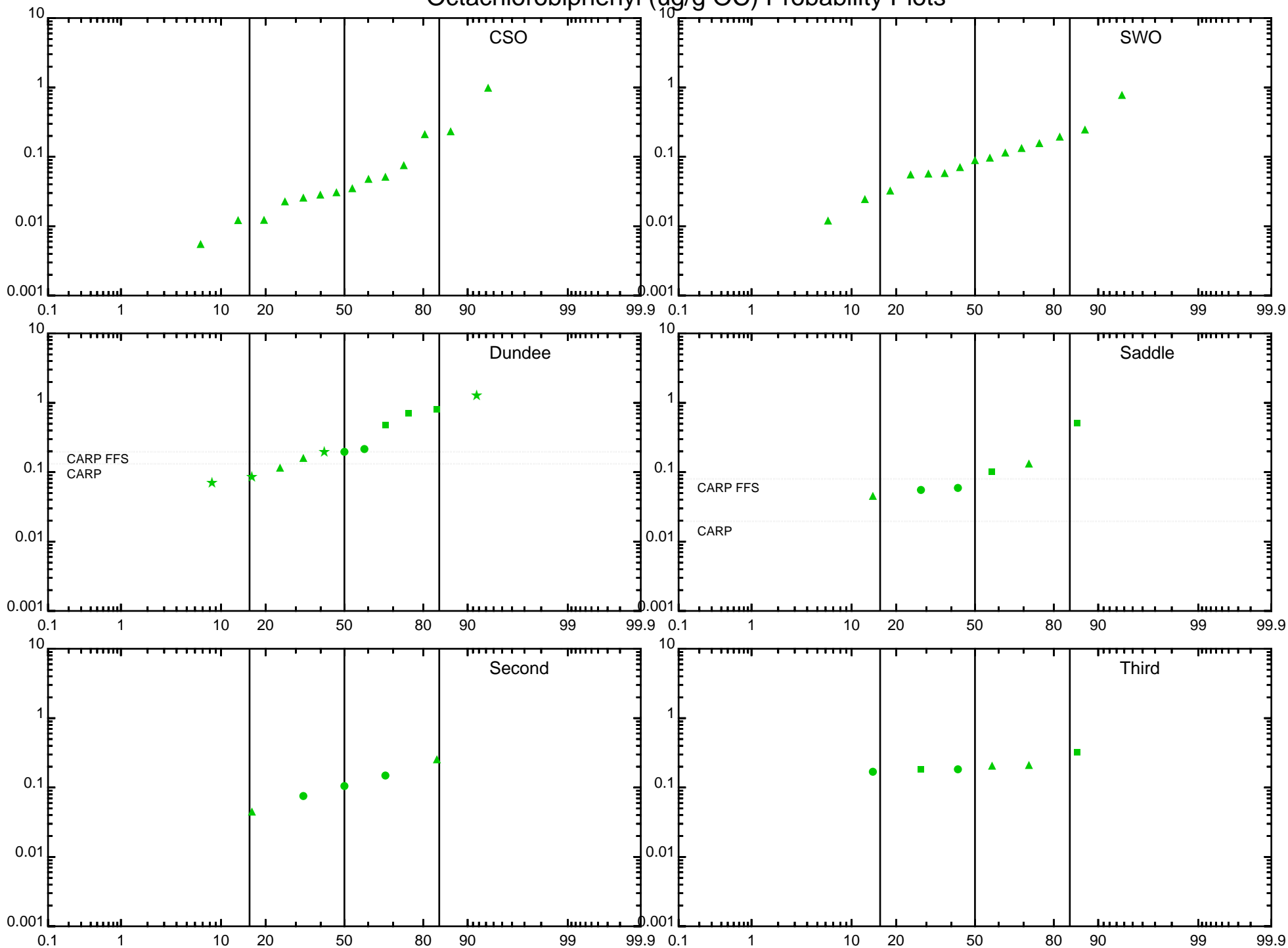
# Hexachlorobiphenyl (ug/g OC) Probability Plots



▲ Water Column      ■ Surface Sediment      ● Sediment Trap      ★ CARP Little Falls



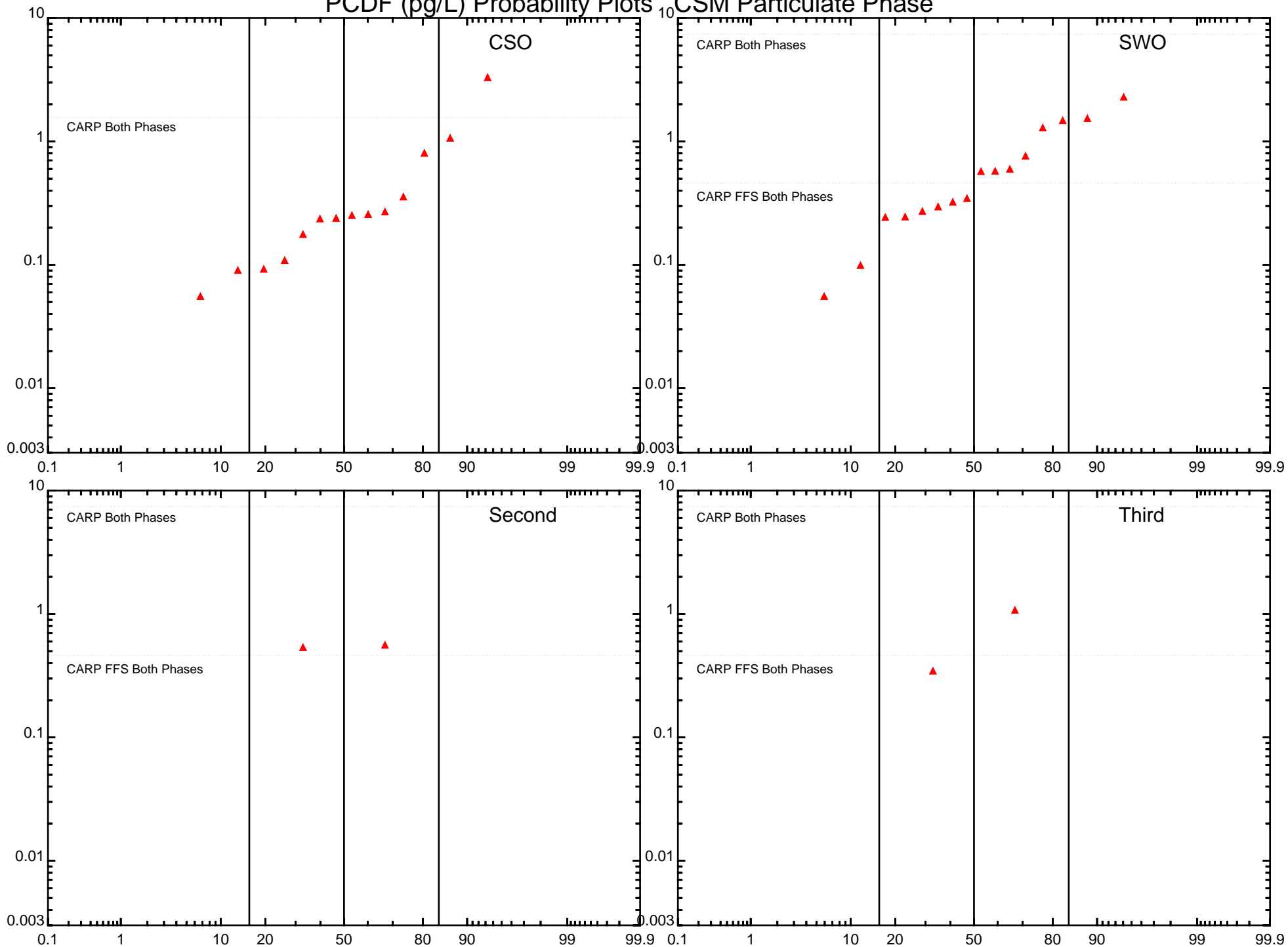
# Octachlorobiphenyl (ug/g OC) Probability Plots



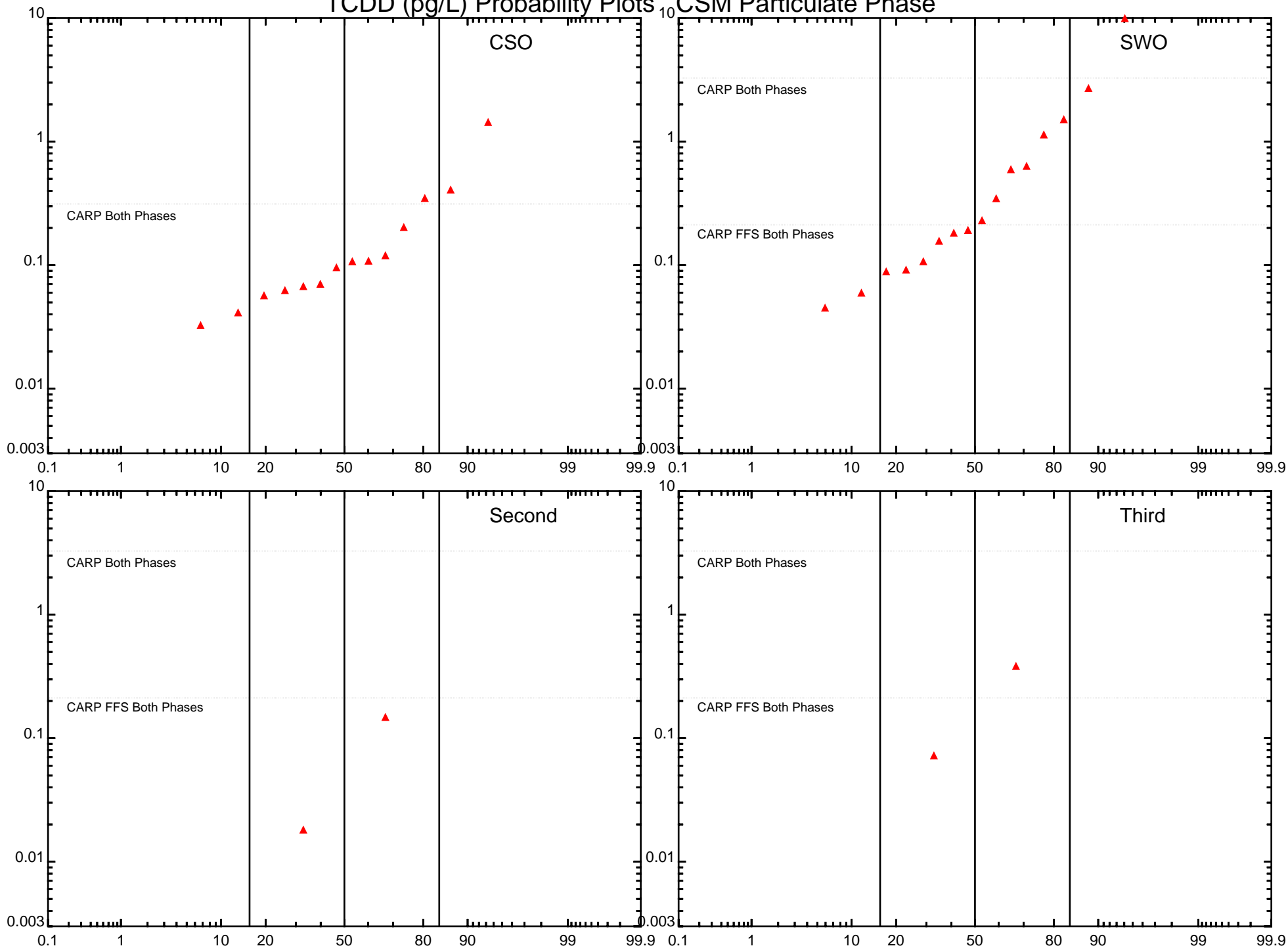
▲ Water Column      ■ Surface Sediment      ● Sediment Trap      ★ CARP Little Falls

**APPENDIX 2**  
**Water Only Particulate Phase Contaminant Loading Concentration Data Measured in**  
**Support of the CSM with Comparisons to Particulate and Dissolved Phase (i.e., Total)**  
**Contaminant Loading Concentration CARP Model Inputs**

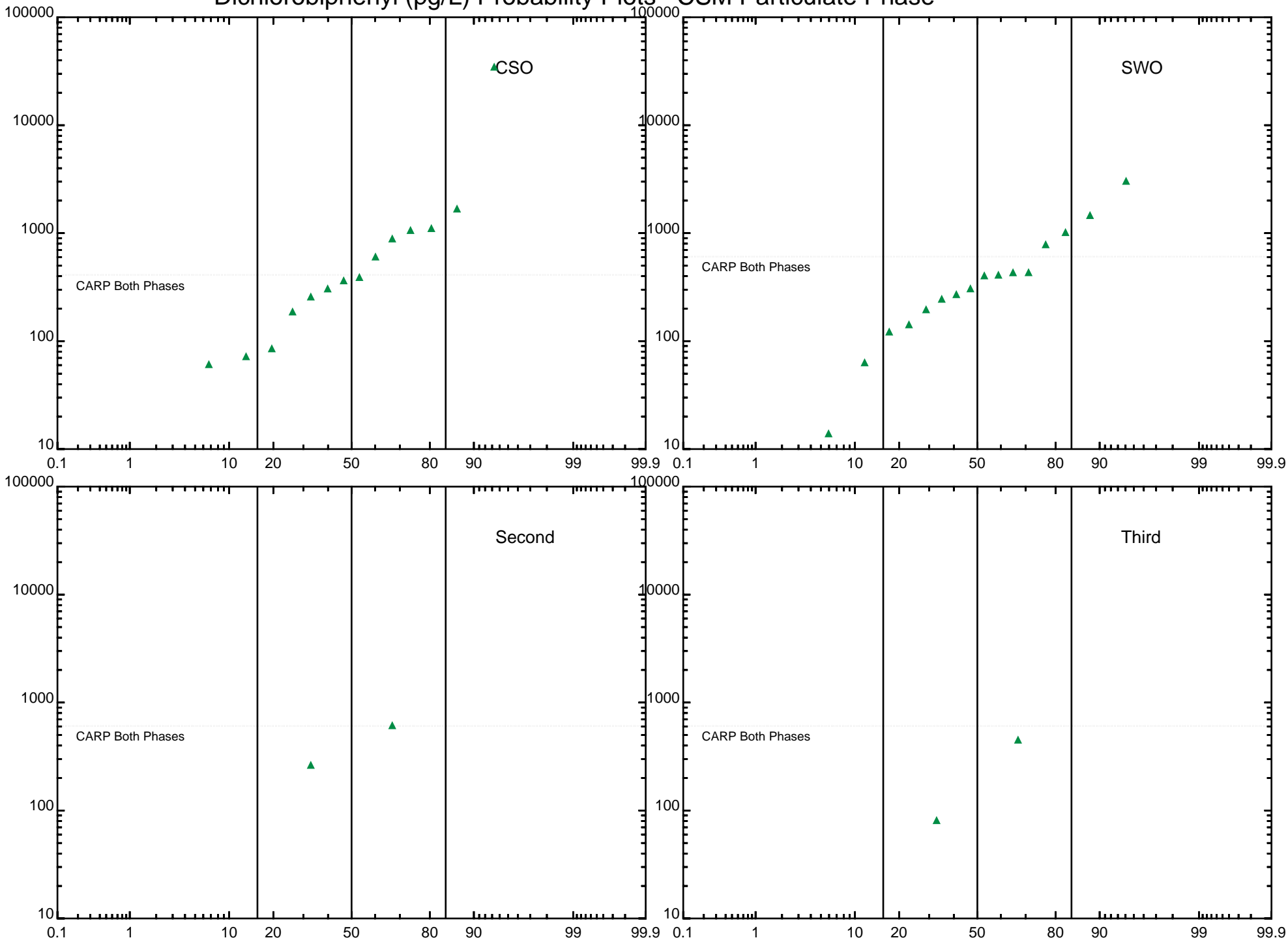
# PCDF (pg/L) Probability Plots



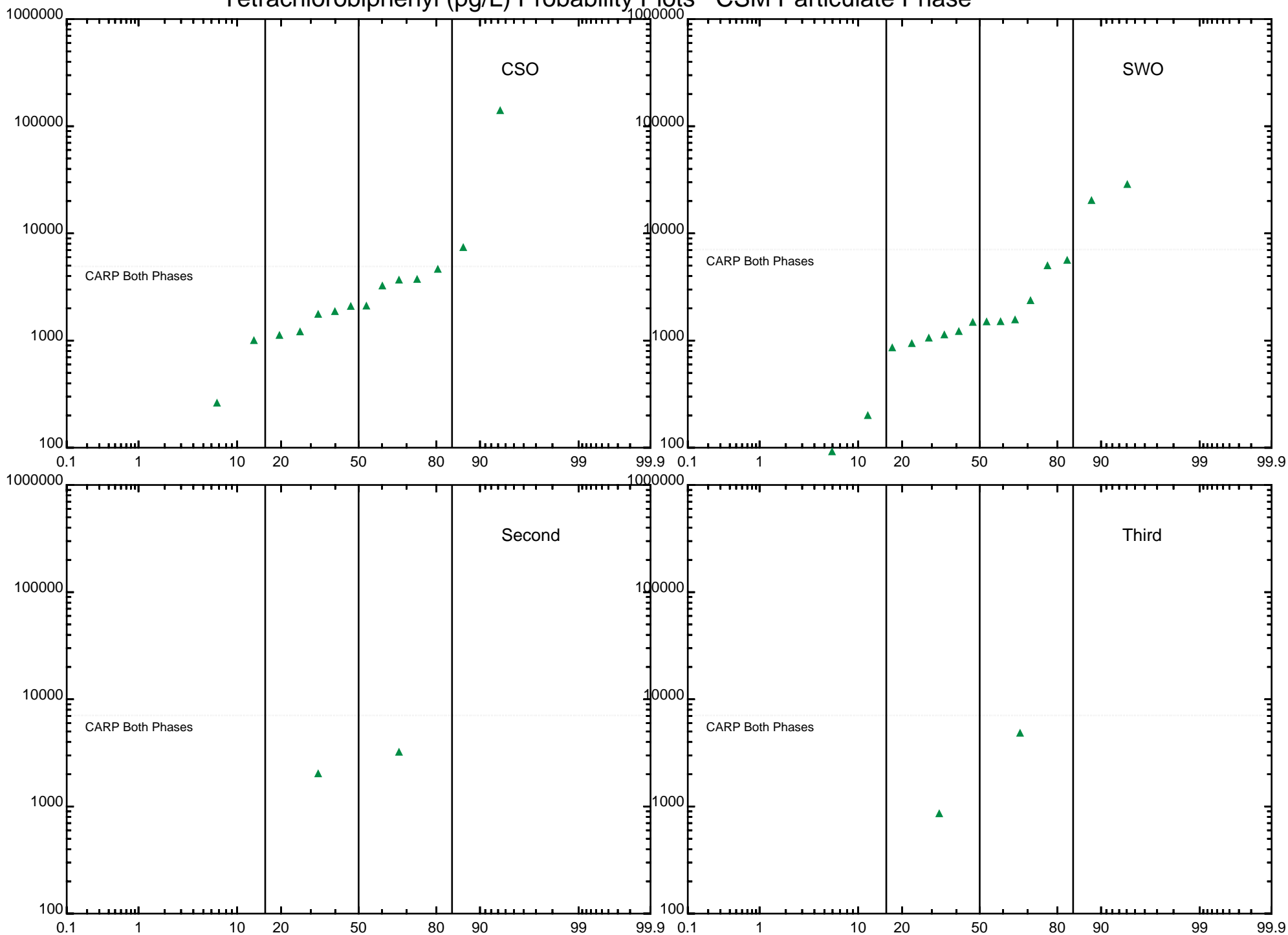
# TCDD (pg/L) Probability Plots



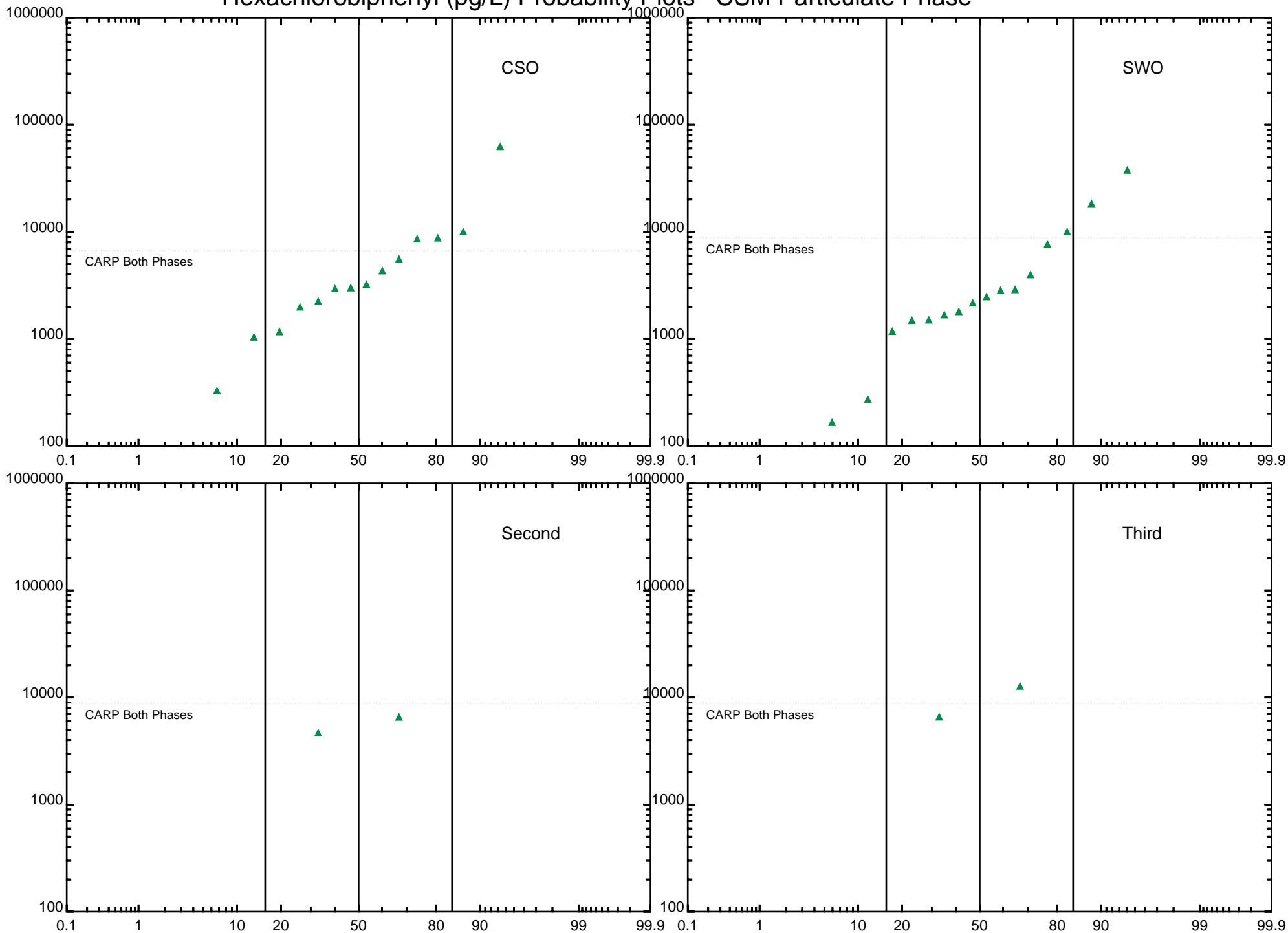
# Dichlorobiphenyl (pg/L) Probability Plots CSM Particulate Phase



# Tetrachlorobiphenyl (pg/L) Probability Plots CSM Particulate Phase



# Hexachlorobiphenyl (pg/L) Probability Plots CSM Particulate Phase



# Octachlorobiphenyl (pg/L) Probability Plots CSM Particulate Phase

