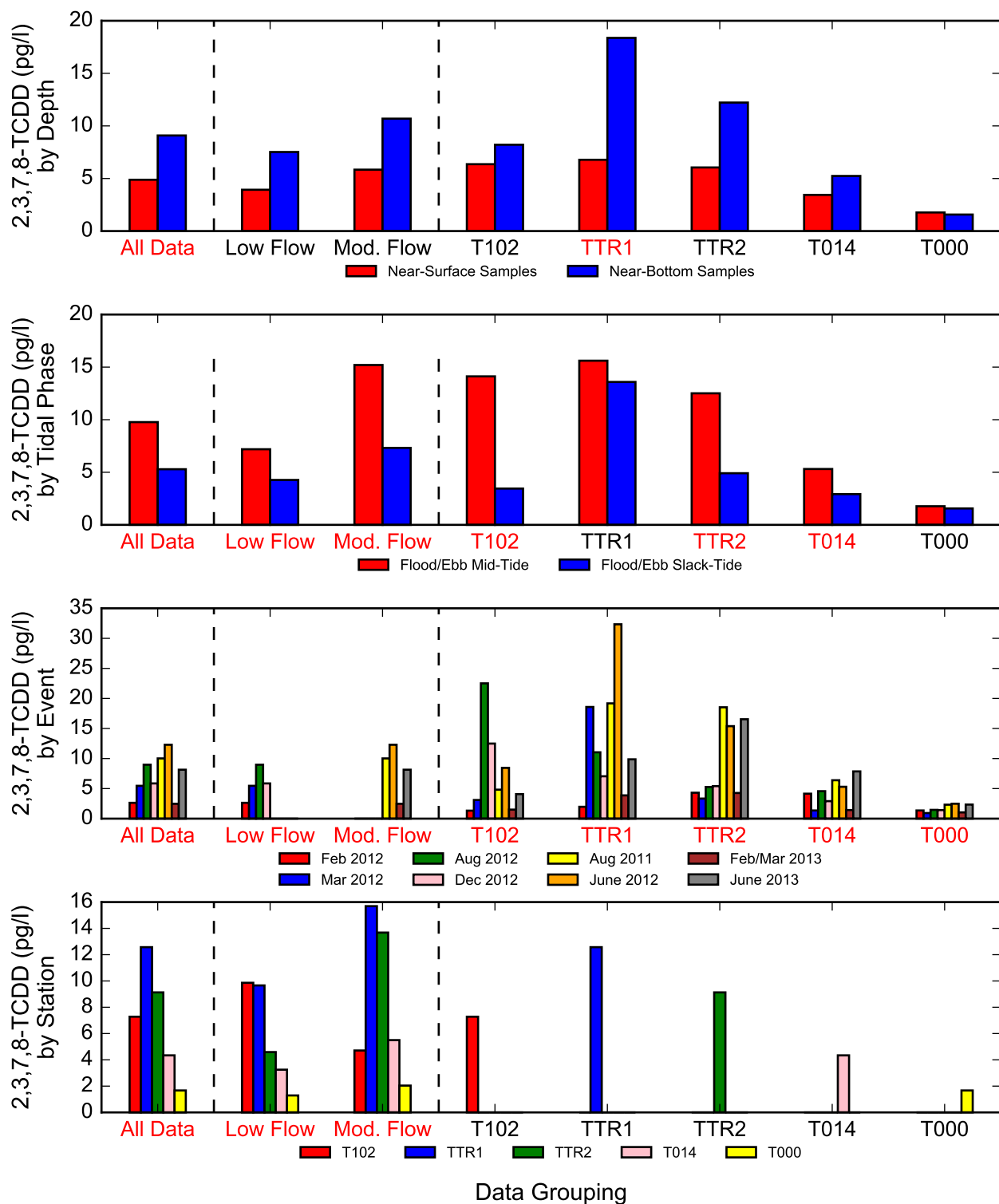
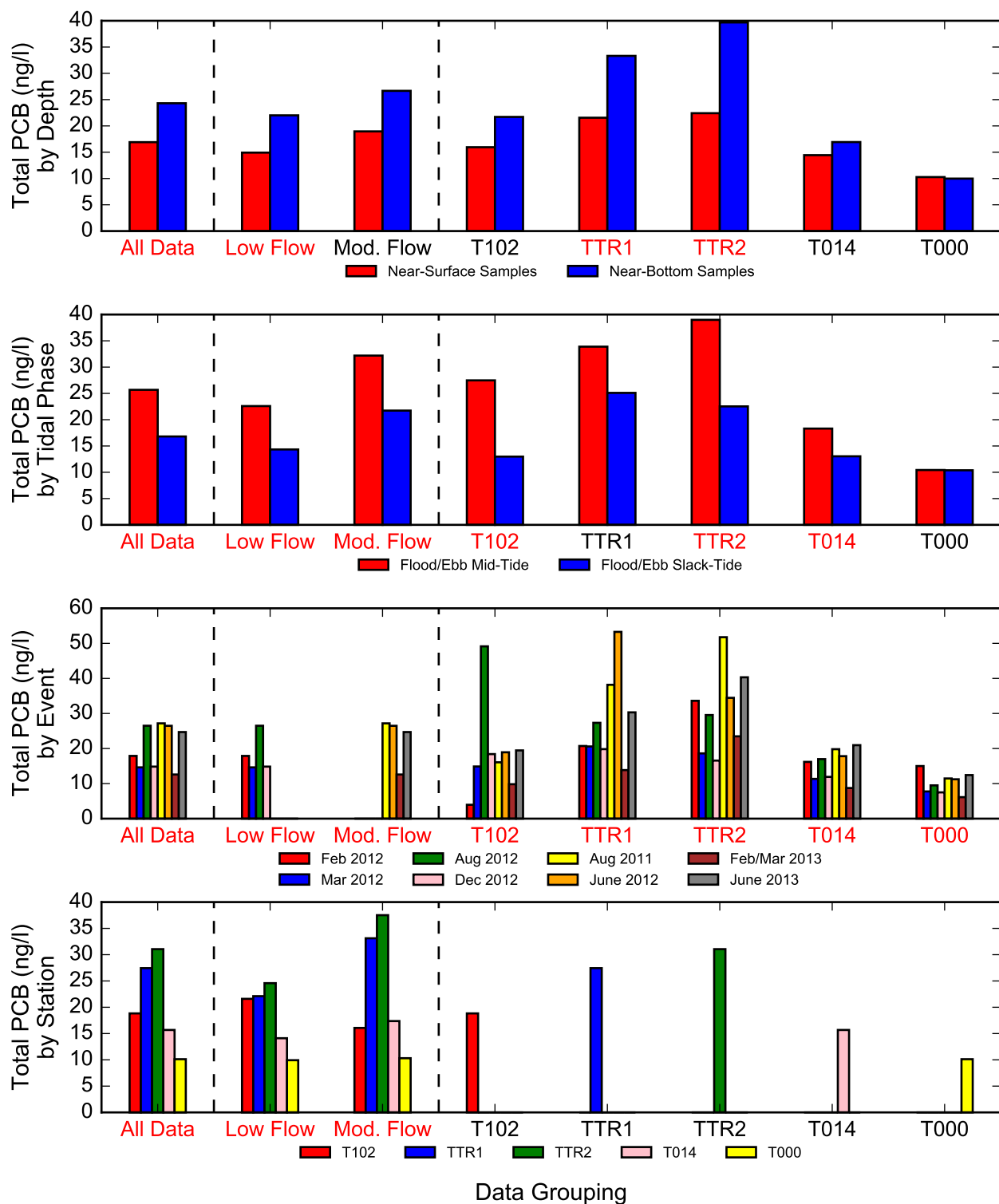


Figures



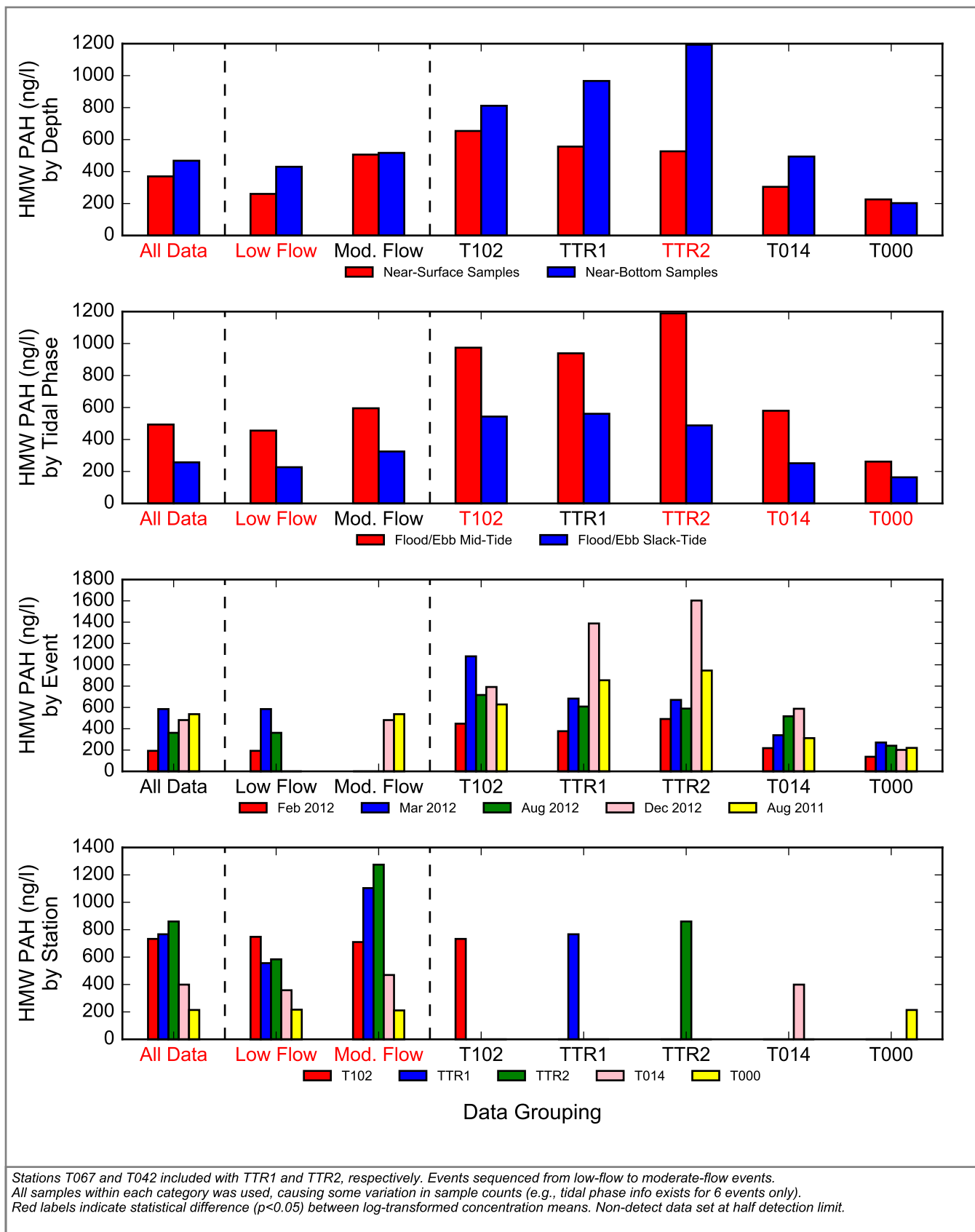
Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means.
Stations T067 and T042 included with TTR1 and TTR2, respectively. Non-detect data set at half detection limit.
All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only).
Events sequenced from low-flow to moderate-flow events. Two high TCDD concentration outliers ($> 1,800$ pg/L) removed from Aug 2011 / June 2012 events.

Figure 1-1a
Mean 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



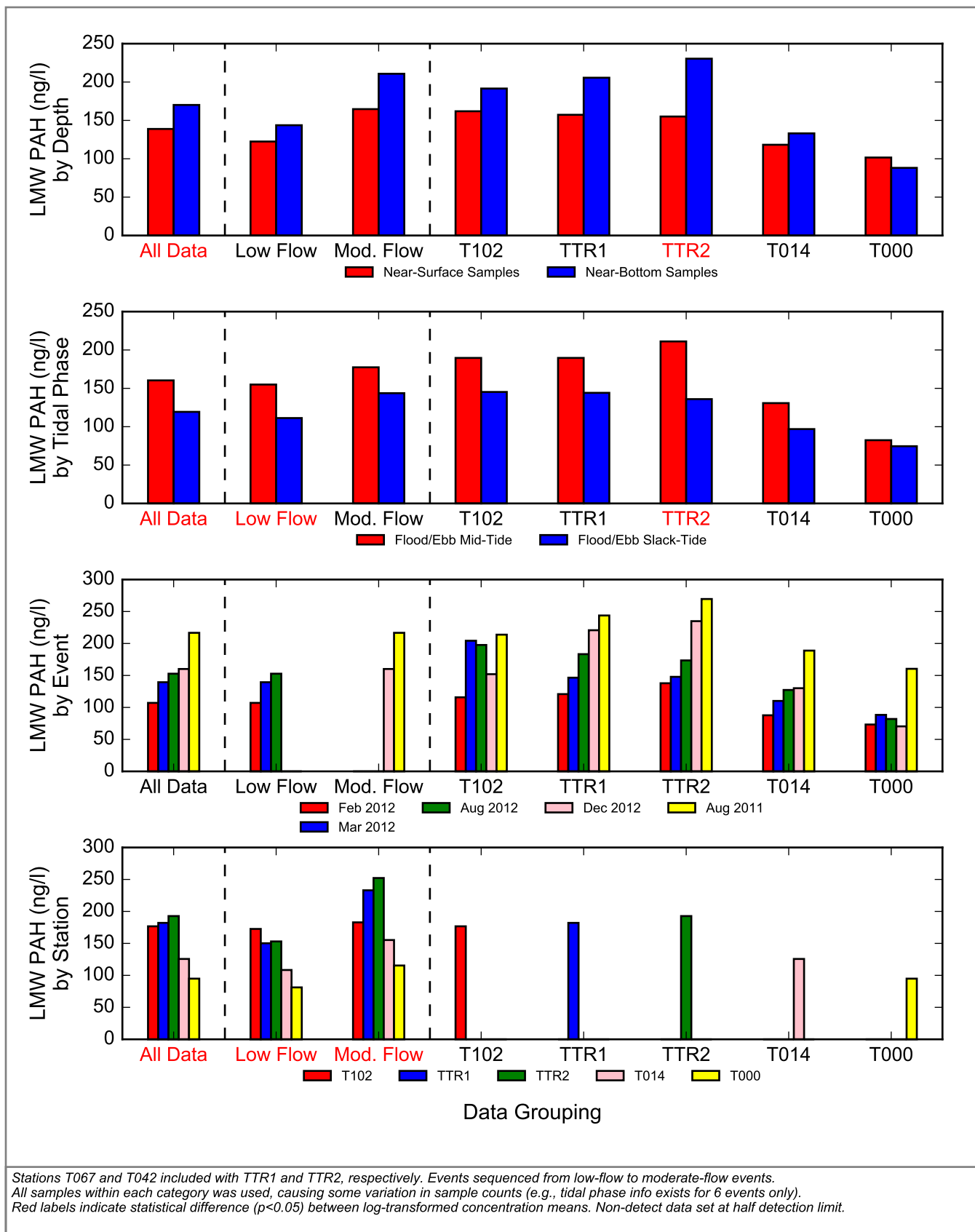
Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means.
 Stations T067 and T042 included with TTR1 and TTR2, respectively. Non-detect data set at half detection limit.
 All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only).
 Events sequenced from low-flow to moderate-flow events. Two low PCB concentration outliers (< 0.05 ng/L) removed from February/March 2013 event.

Figure 1-1b
Mean Total PCB Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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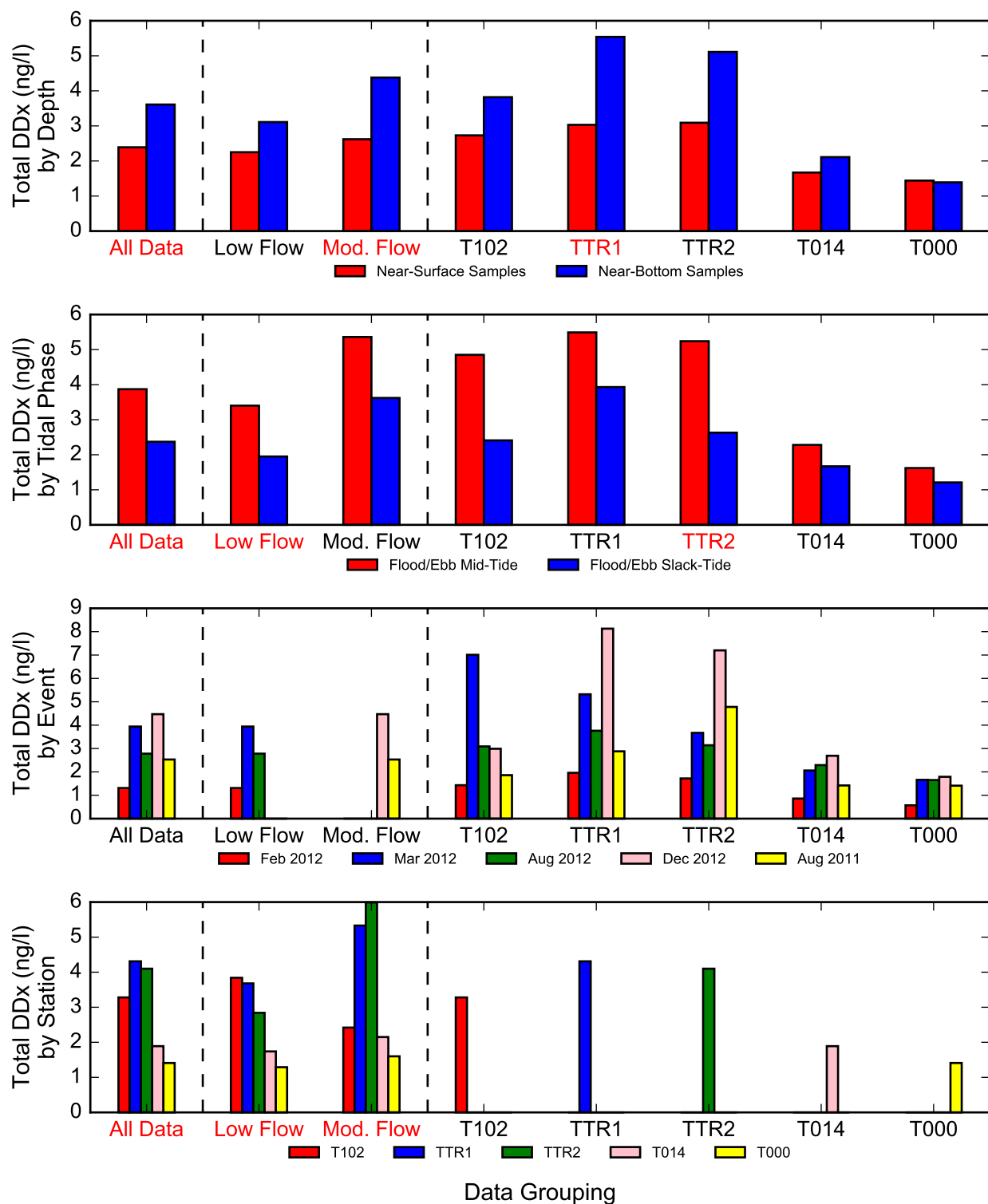
Figure 1-1c
Mean HMW PAH Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Publish Date: 10/05/2018 15:11 PM | User: WCL-PKW0

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Figure 1-1d
Mean LMW PAH Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
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Stations T067 and T042 included with TTR1 and TTR2, respectively. Events sequenced from low-flow to moderate-flow events. All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only). Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means. Non-detect data set at half detection limit.

Figure 1-1e
Mean Total DDx Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

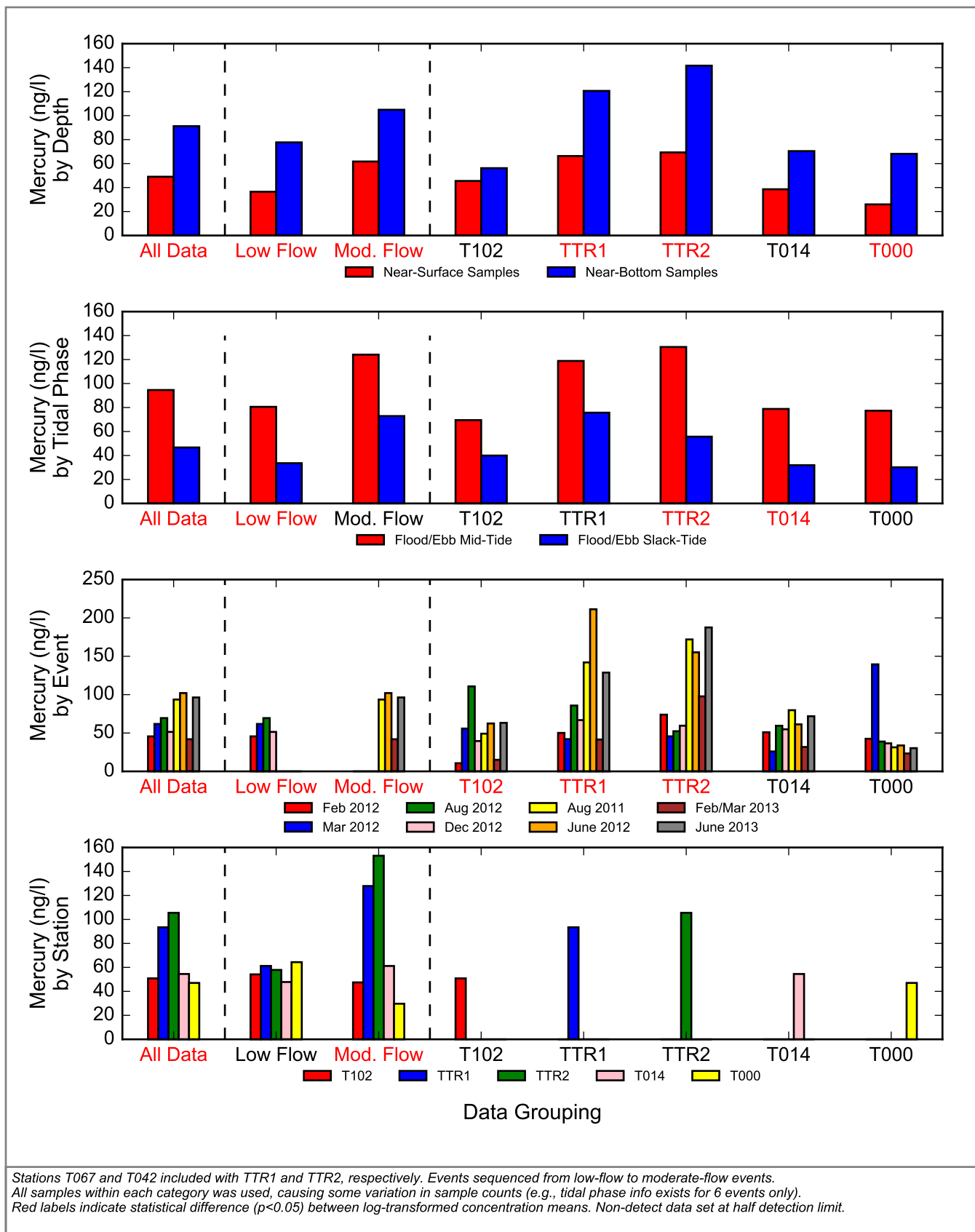


Figure 1-1f

**Mean Mercury Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station**

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation/Feasibility Study

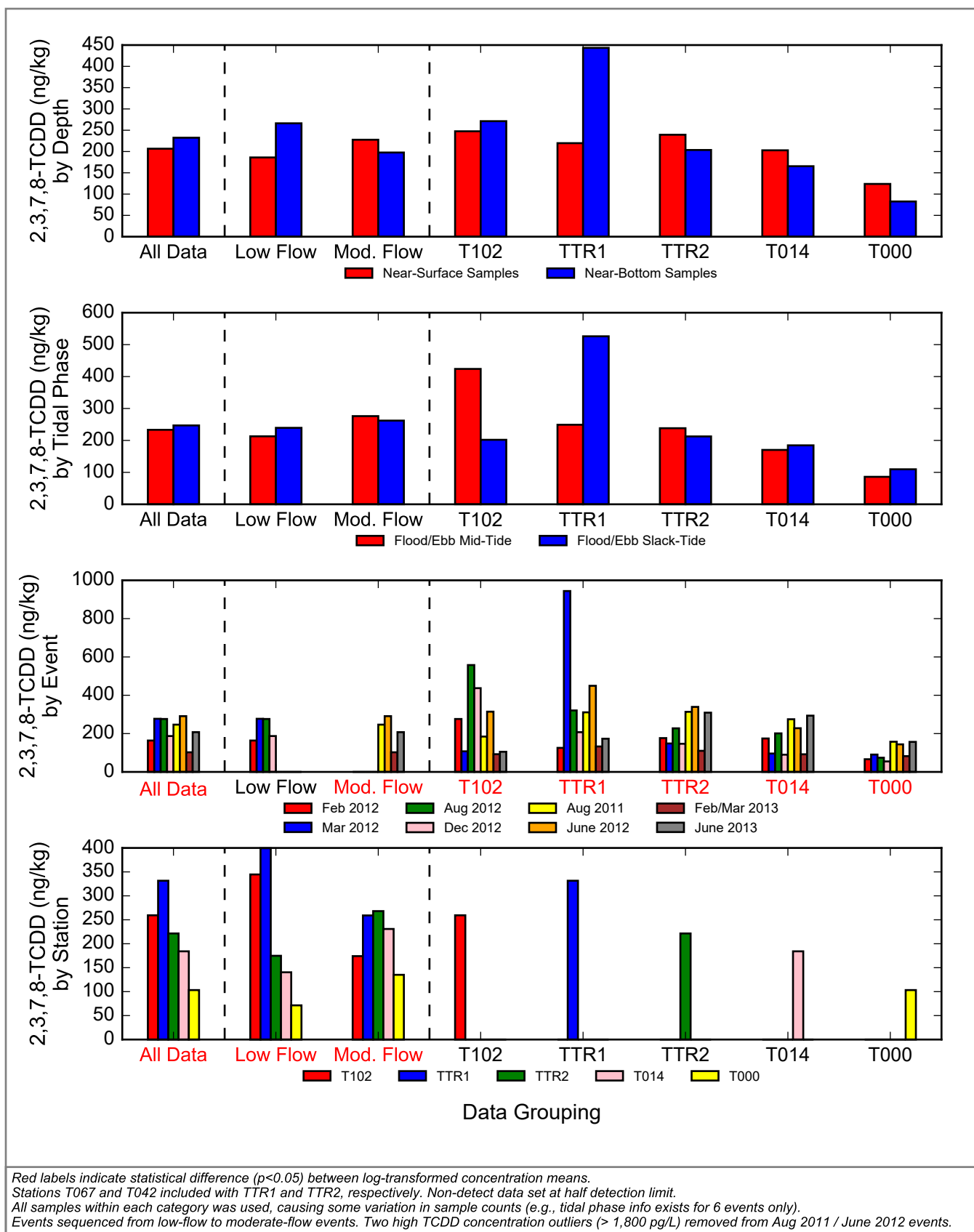
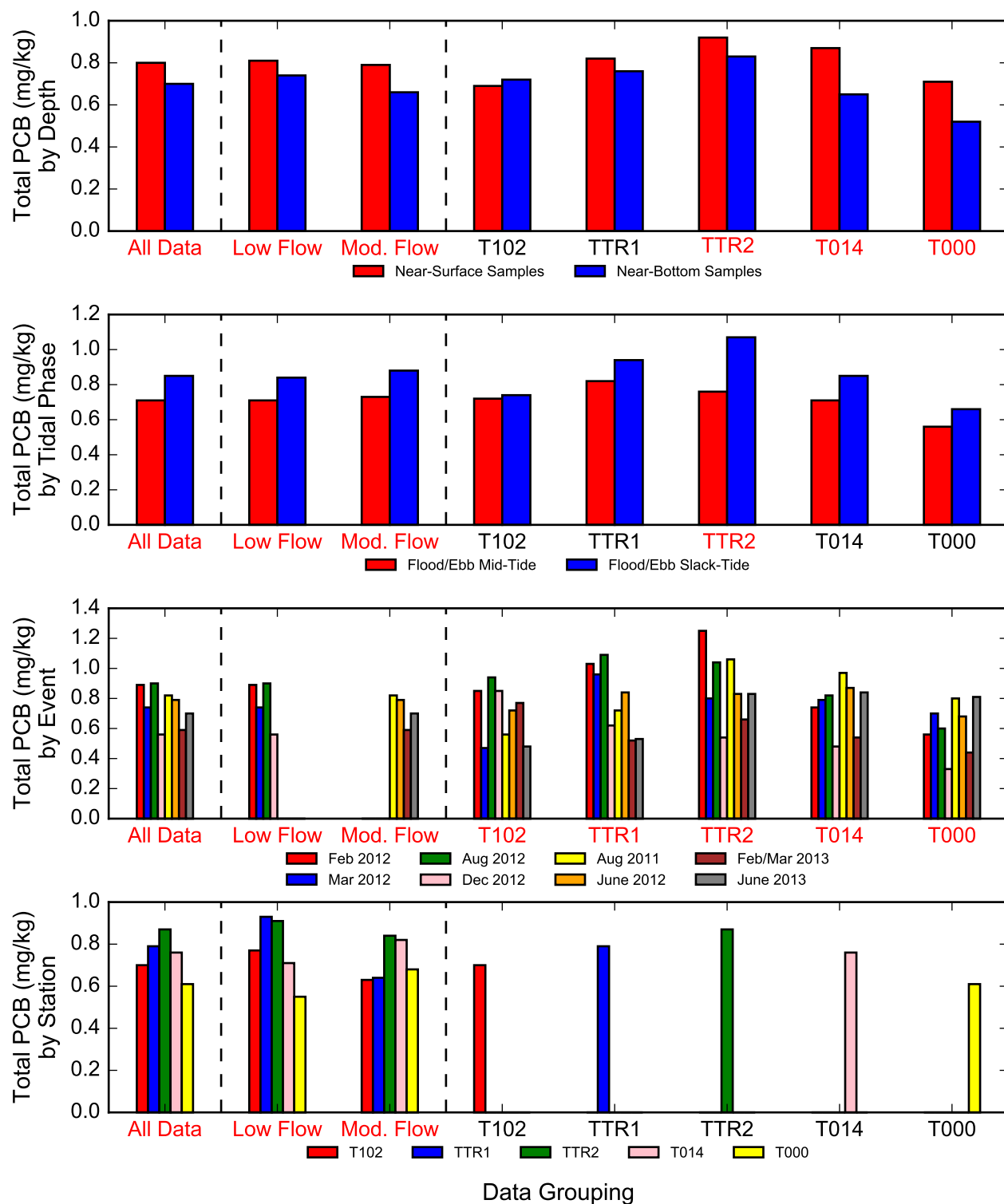


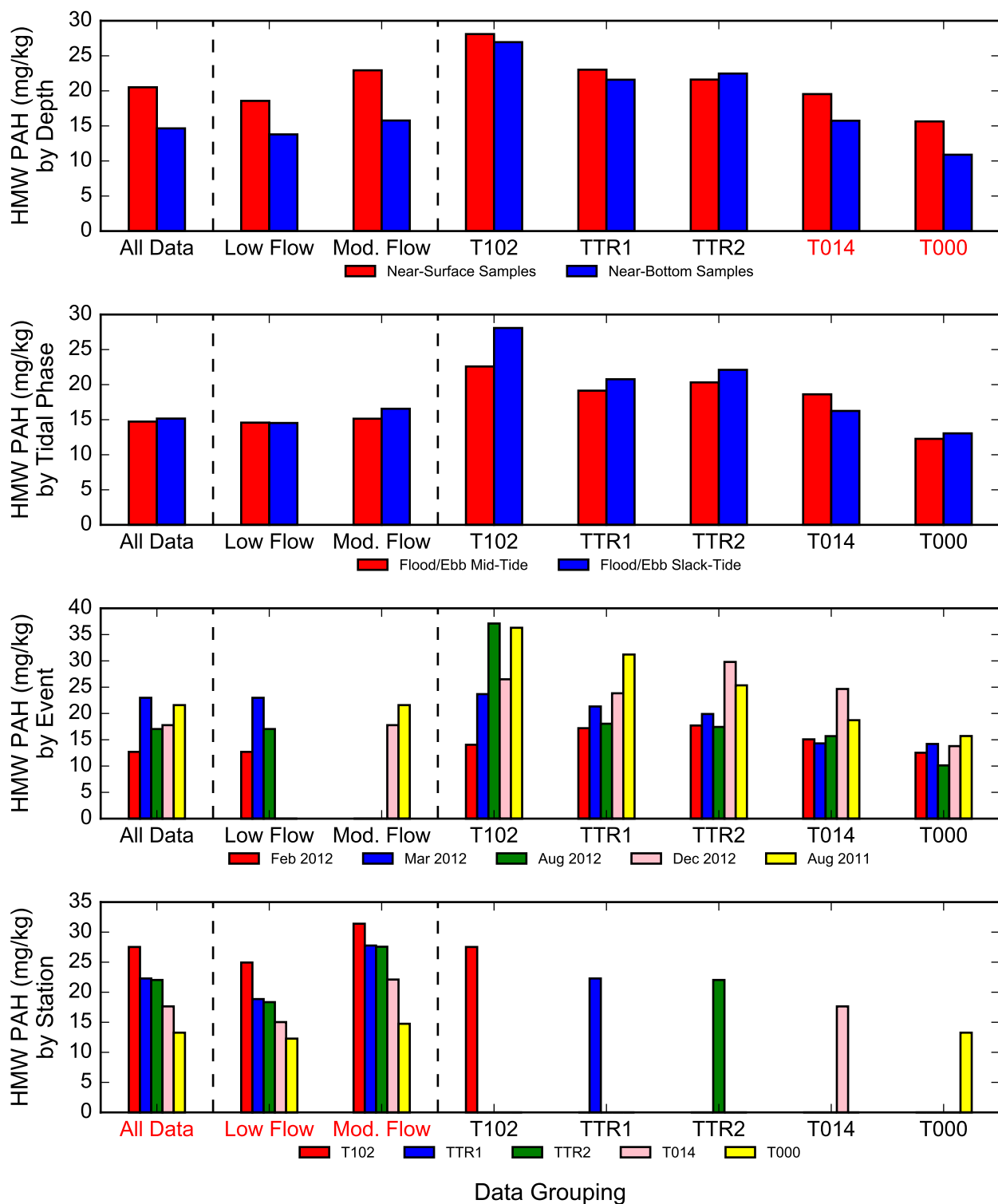
Figure 1-2a
Mean Solids-Normalized 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means.
 Stations T067 and T042 included with TTR1 and TTR2, respectively. Non-detect data set at half detection limit.
 All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only).
 Events sequenced from low-flow to moderate-flow events. Two low PCB concentration outliers (< 0.05 ng/L) removed from February/March 2013 event.

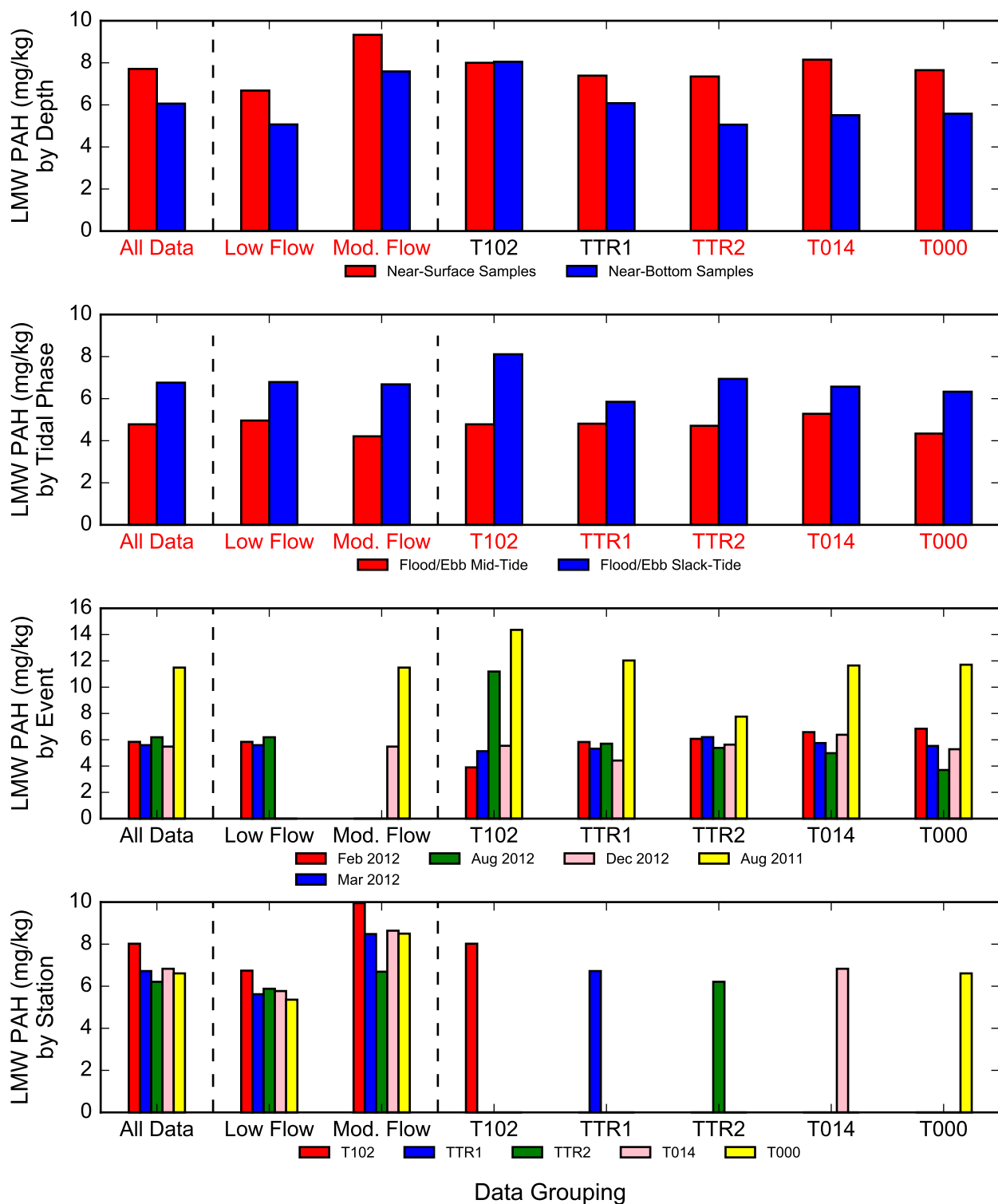
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Figure 1-2b
Mean Solids-Normalized Total PCB Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Stations T067 and T042 included with TTR1 and TTR2, respectively. Events sequenced from low-flow to moderate-flow events. All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only). Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means. Non-detect data set at half detection limit.

Figure 1-2c
Mean Solids-Normalized HMW PAH Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Stations T067 and T042 included with TTR1 and TTR2, respectively. Events sequenced from low-flow to moderate-flow events. All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only). Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means. Non-detect data set at half detection limit.

Figure 1-2d
Mean Solids-Normalized LMW PAH Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

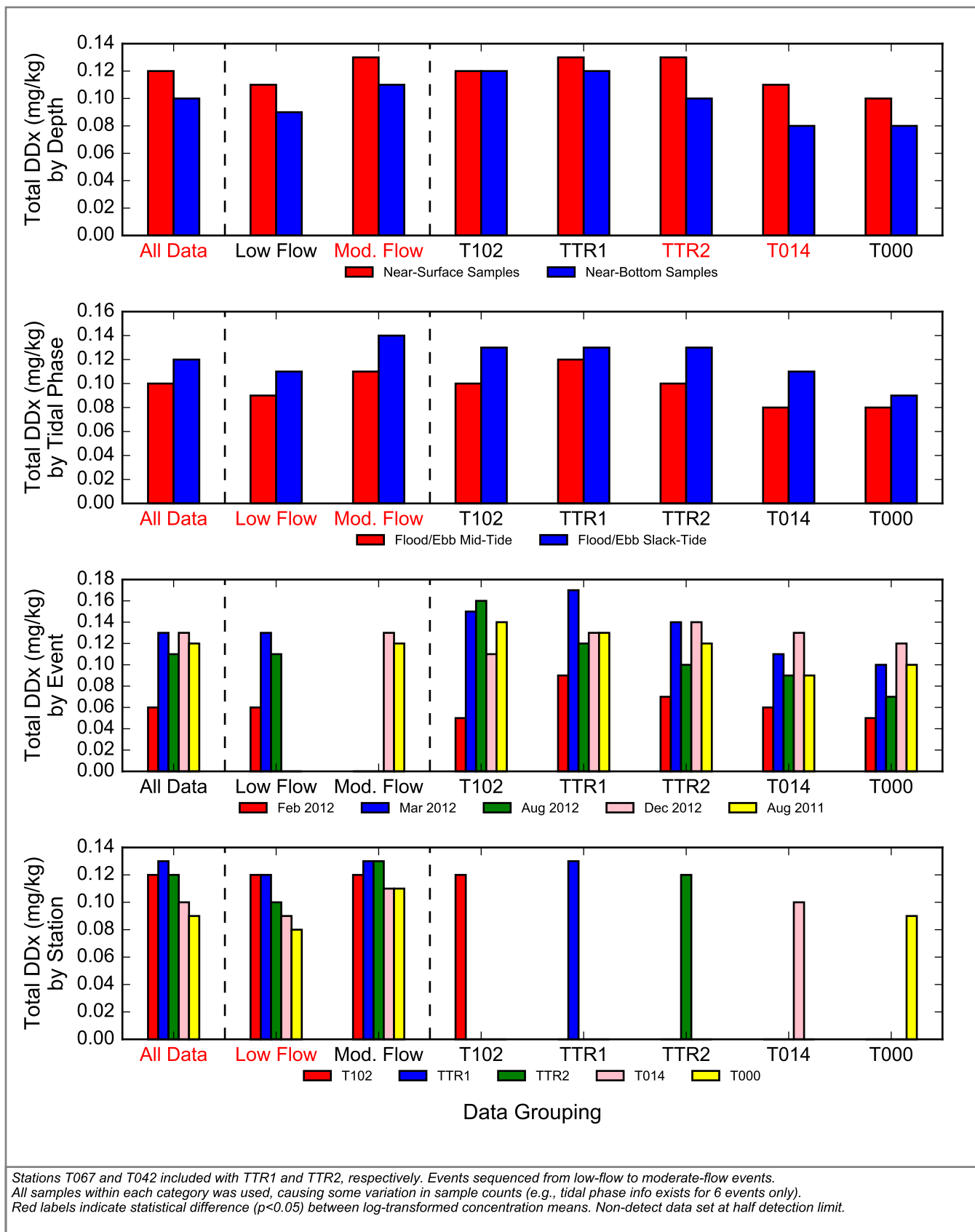
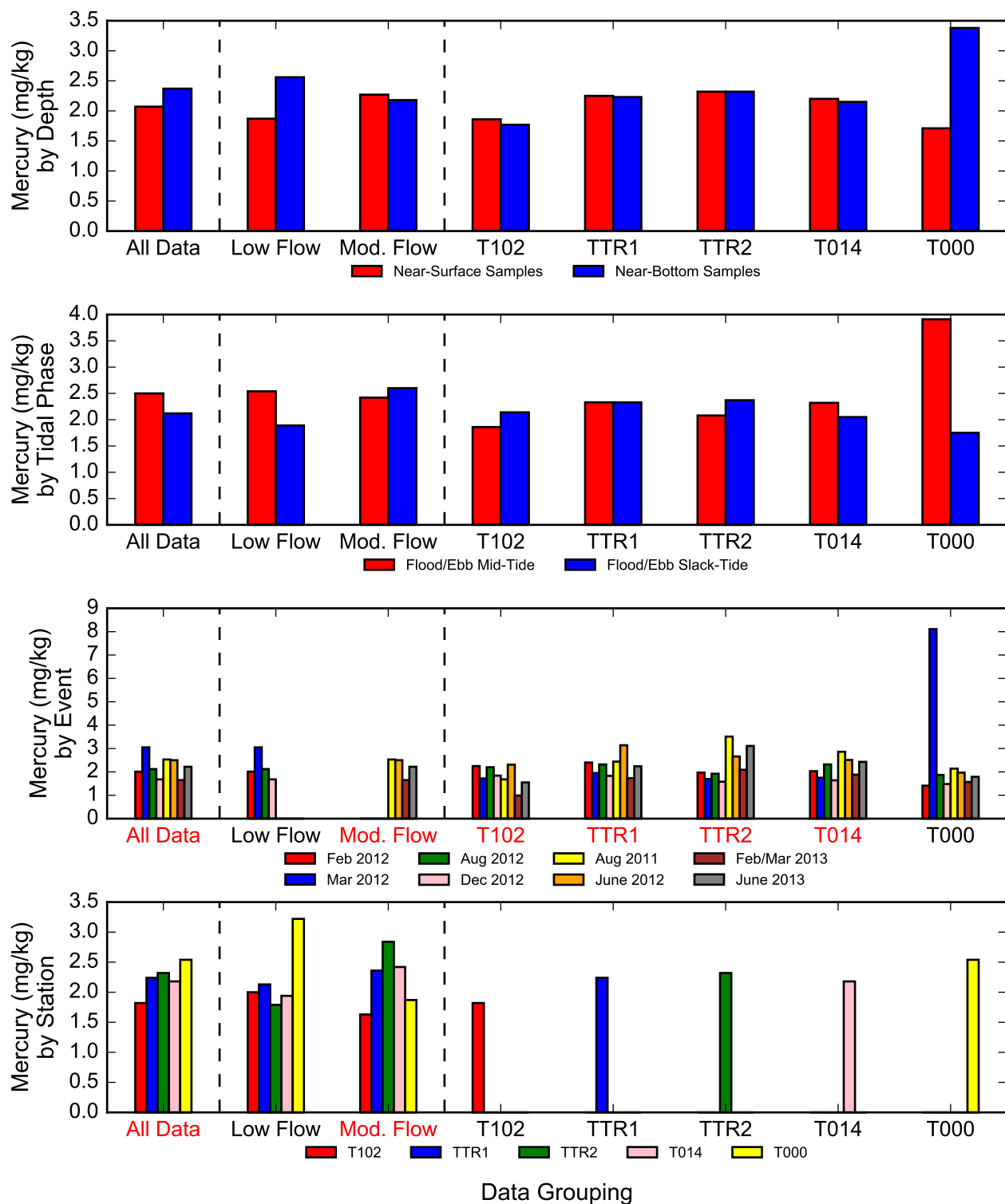


Figure 1-2e
Mean Solids-Normalized Total DDx Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Stations T067 and T042 included with TTR1 and TTR2, respectively. Events sequenced from low-flow to moderate-flow events. All samples within each category was used, causing some variation in sample counts (e.g., tidal phase info exists for 6 events only). Red labels indicate statistical difference ($p < 0.05$) between log-transformed concentration means. Non-detect data set at half detection limit.

Figure 1-2f
Mean Solids-Normalized Mercury Concentrations at LPR sv-CWCM Stations
by Sampling Depth, Tidal Phase, Event, and Station
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

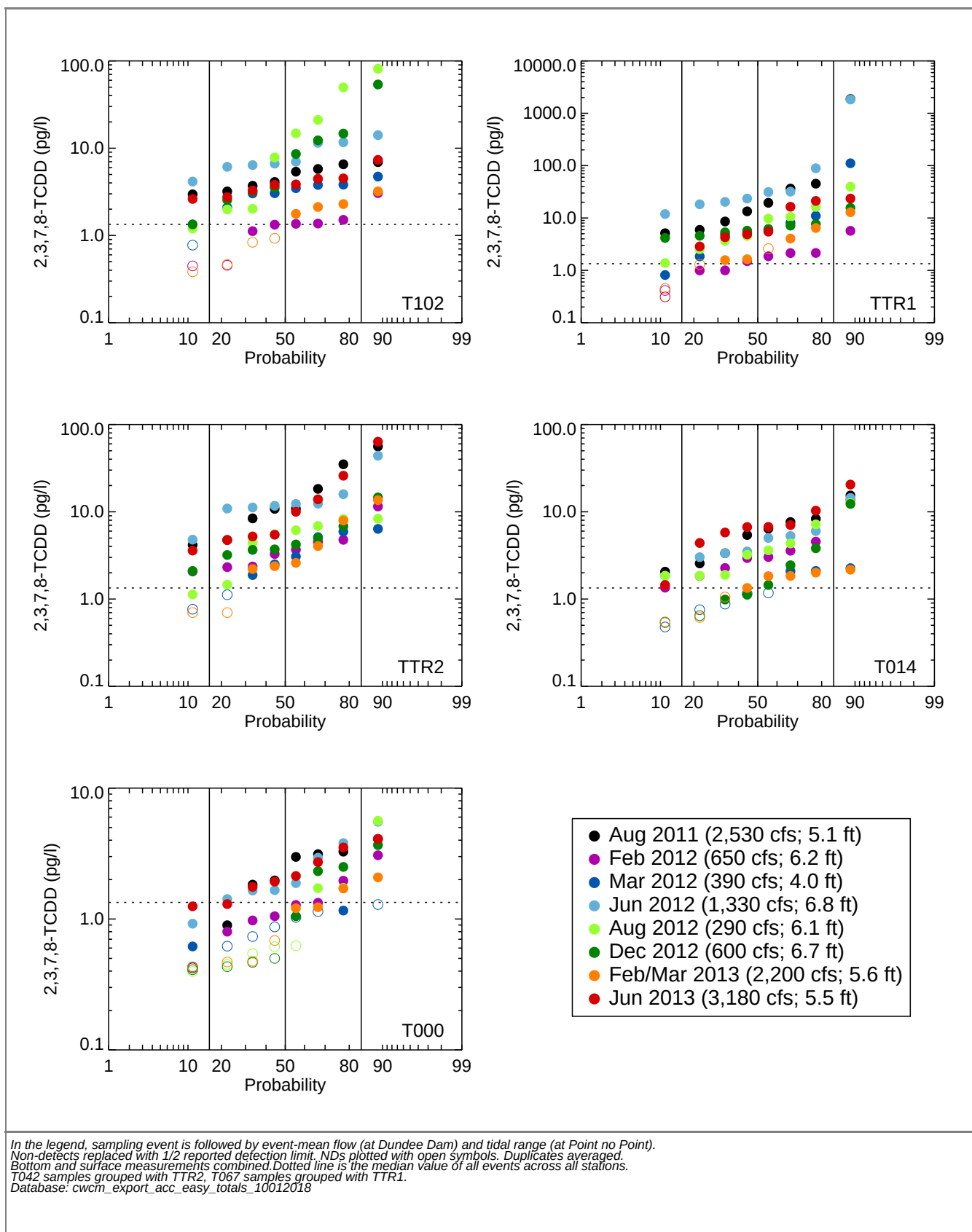


Figure 1-3a

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

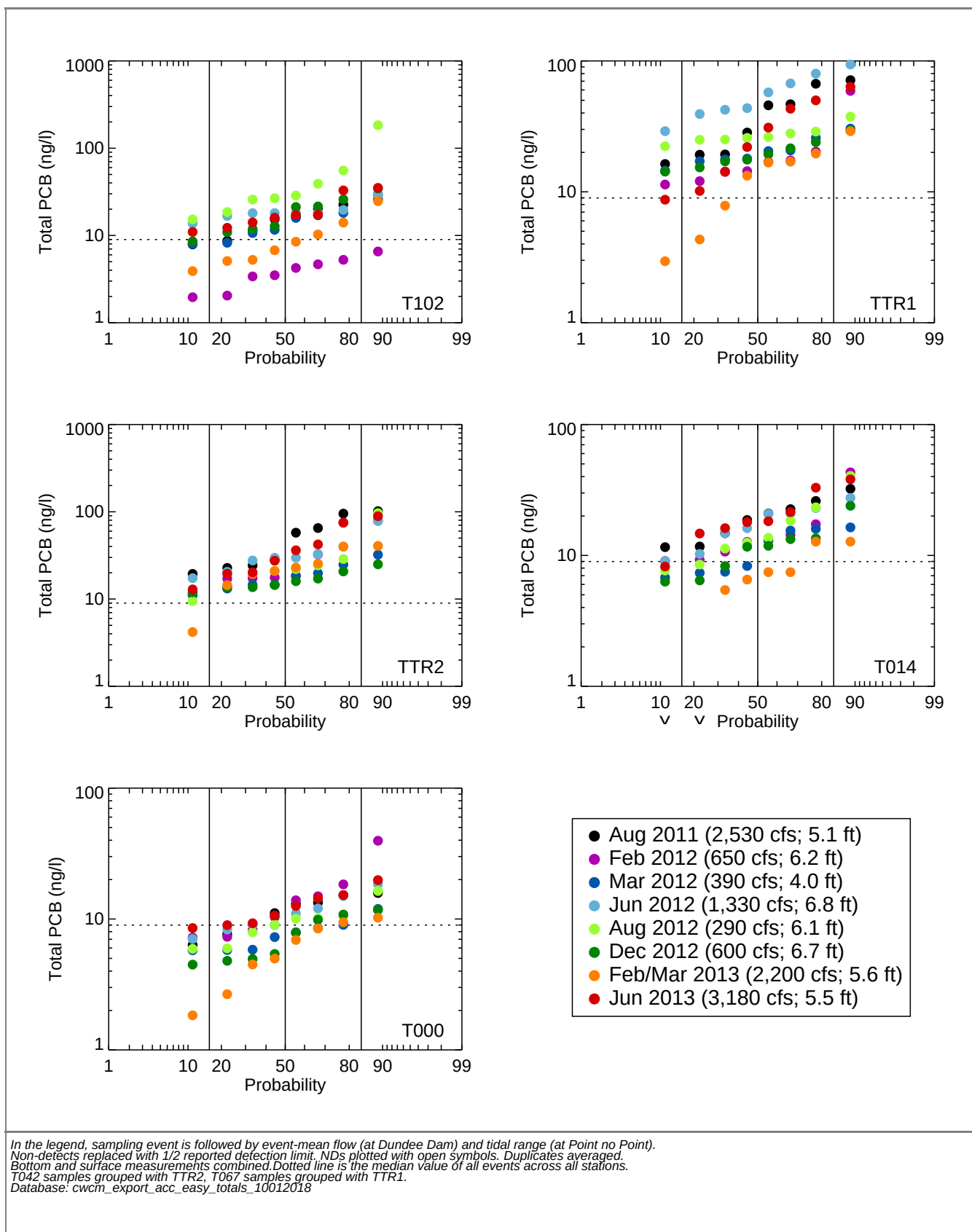


Figure 1-3b

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

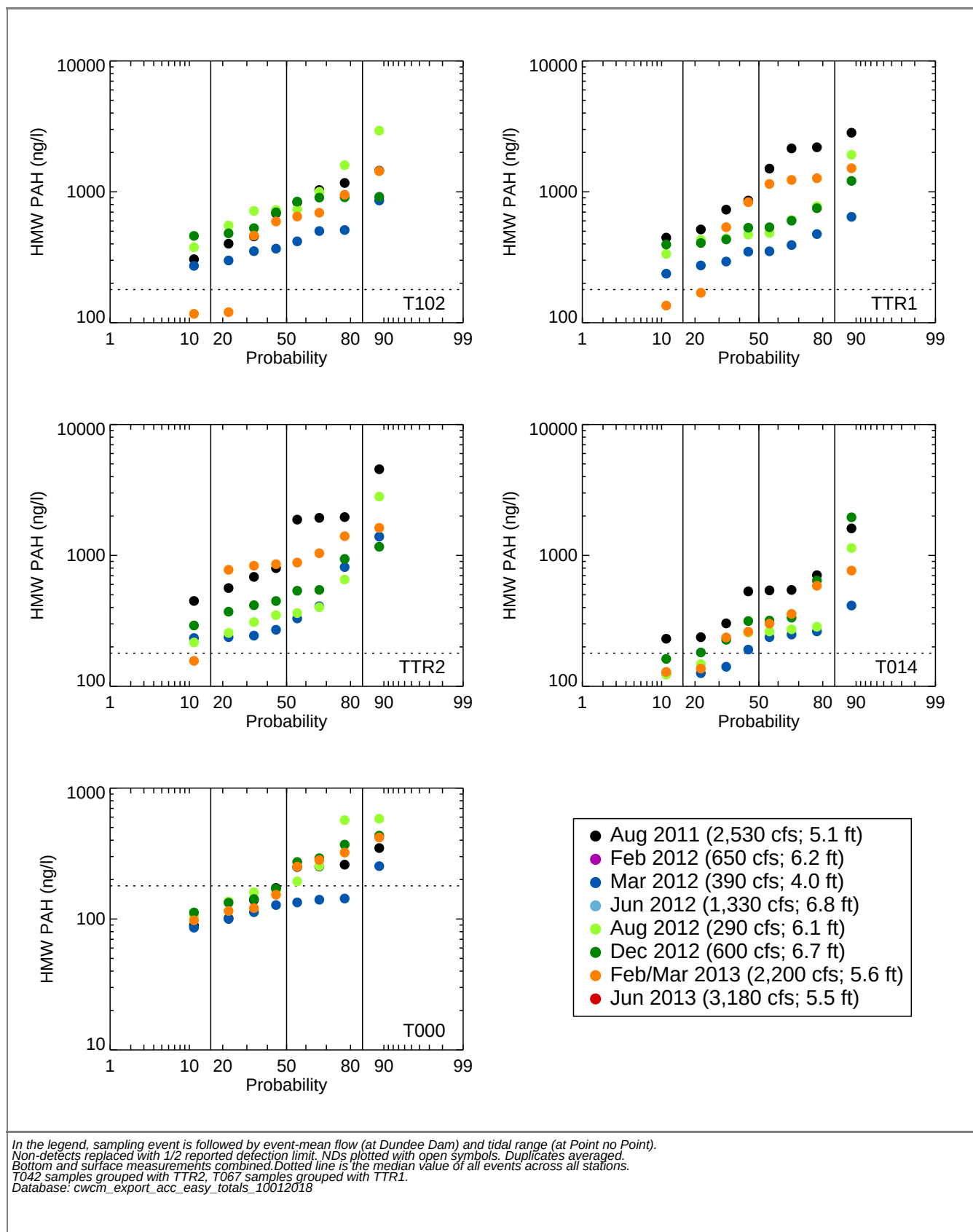
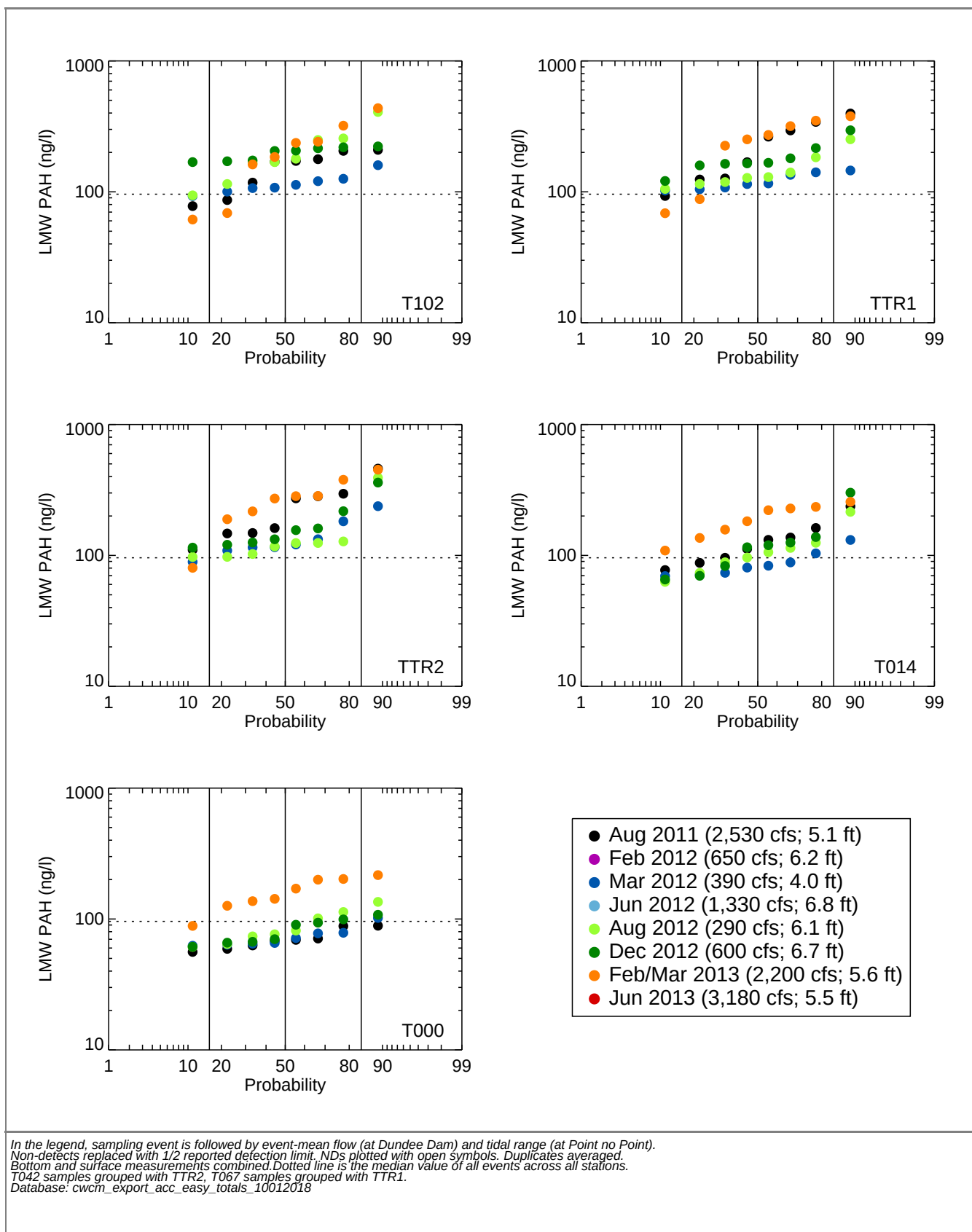


Figure 1-3c

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations



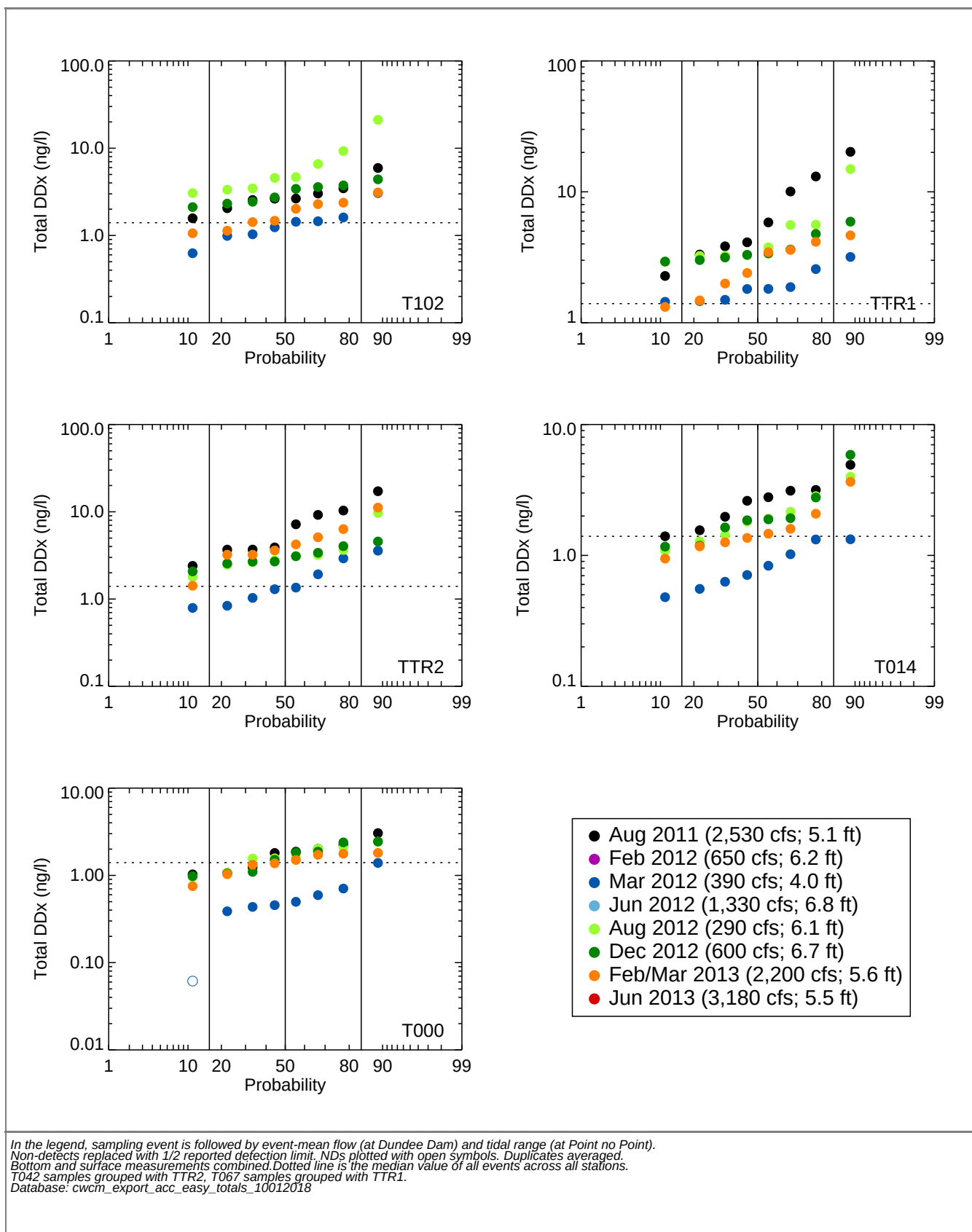
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Figure 1-3d

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Publish Date: 06/18/2019 17:28 | User: UK/SL/EP

File Path: \\BOSTON1\Jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\lv5\Appendix_H\code\wc_conc_dist_single_station_event_overlay.pro

Figure 1-3e

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

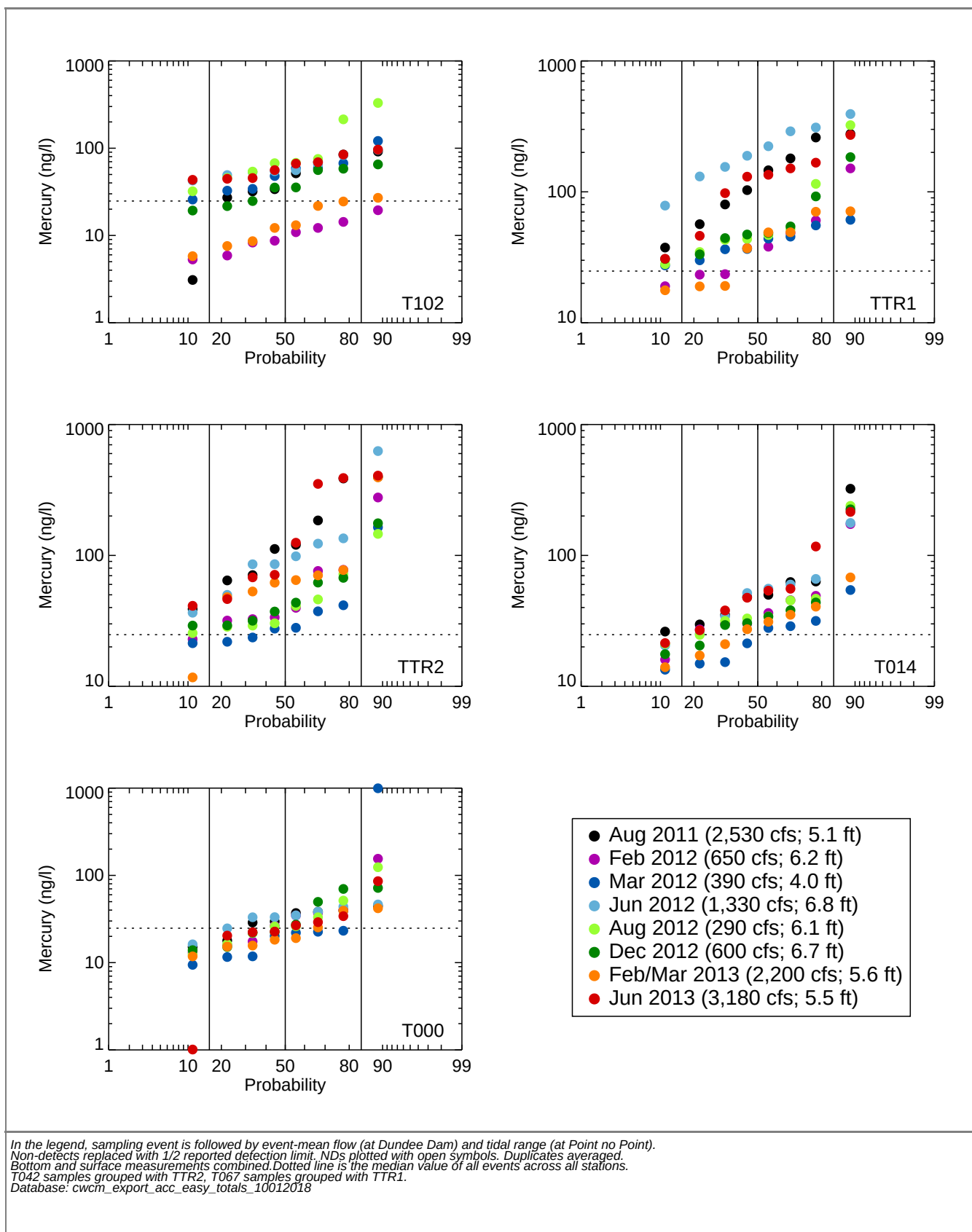
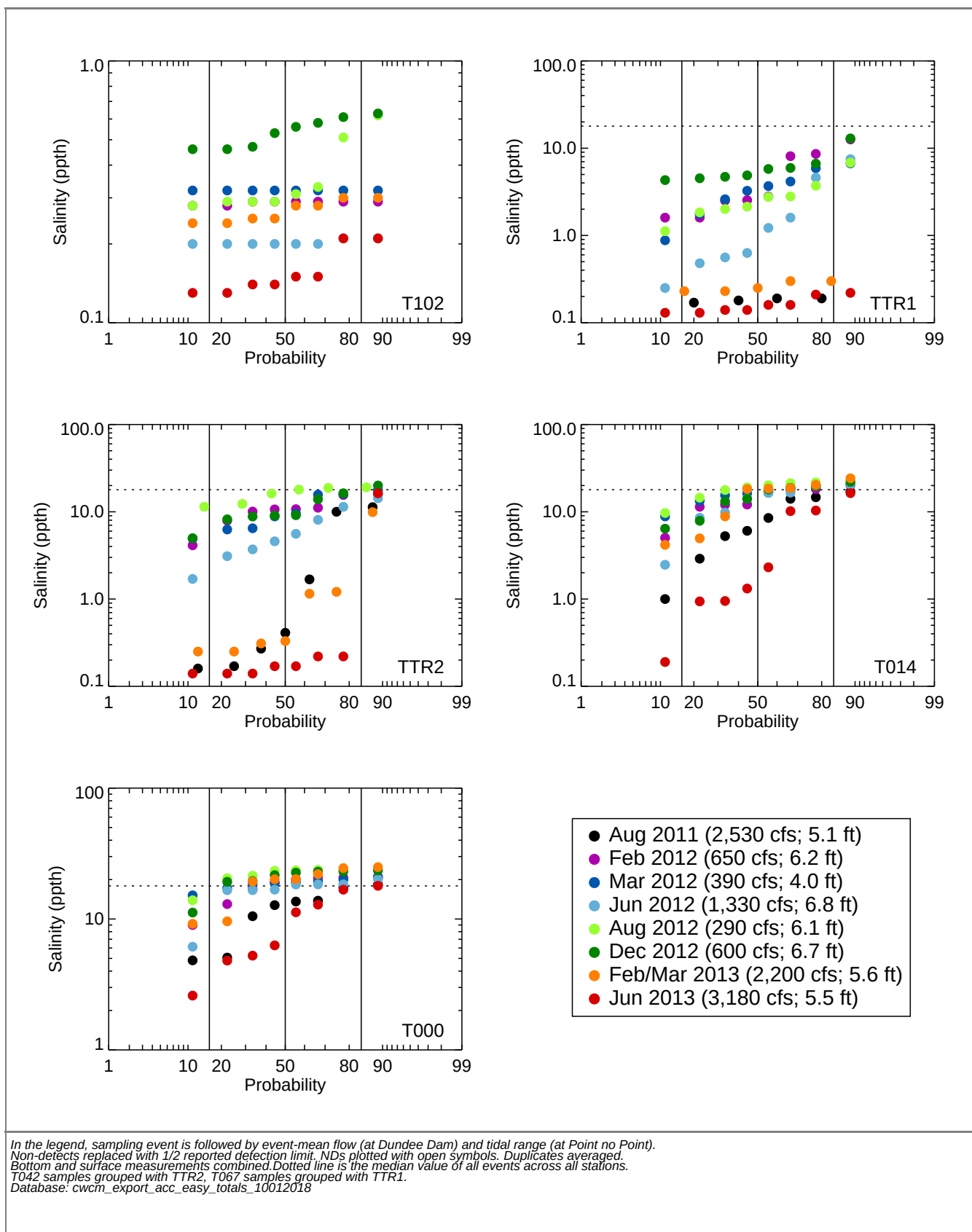


Figure 1-3f

Water Column COPC Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

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Publish Date: 06/18/2019 17:28 | User: UK/SL/EP

File Path: \\BOSTON1\Jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\l5\Appendix_H\code\wc_conc_dist_single_station_event_overlay.pro

Figure 1-3g
Salinity Measurement Distributions for sv-CWCM Sampling Events at LPR Stations

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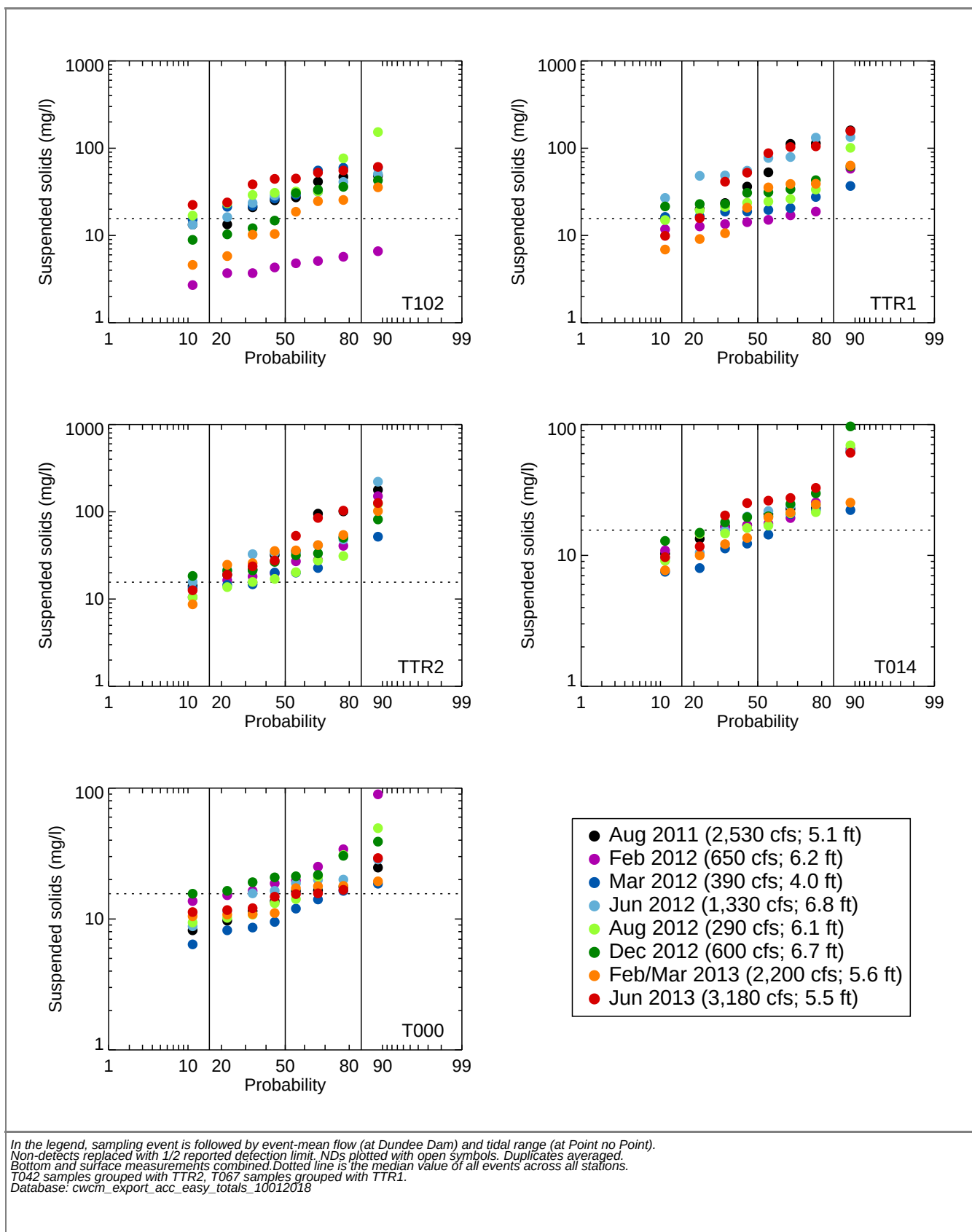


Figure 1-3h

Suspended Solids Concentration Distributions for sv-CWCM Sampling Events at LPR Stations

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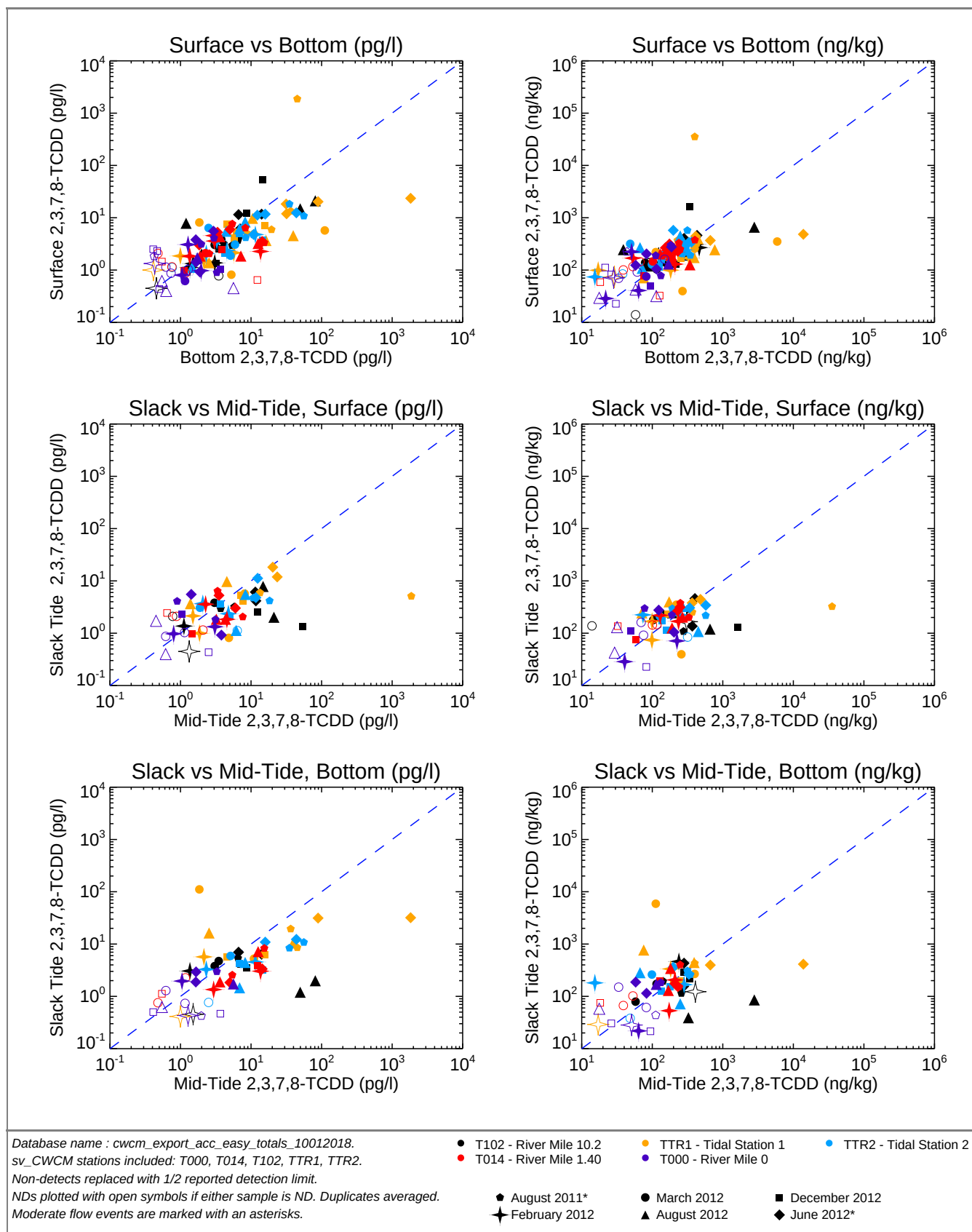


Figure 2-1a

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

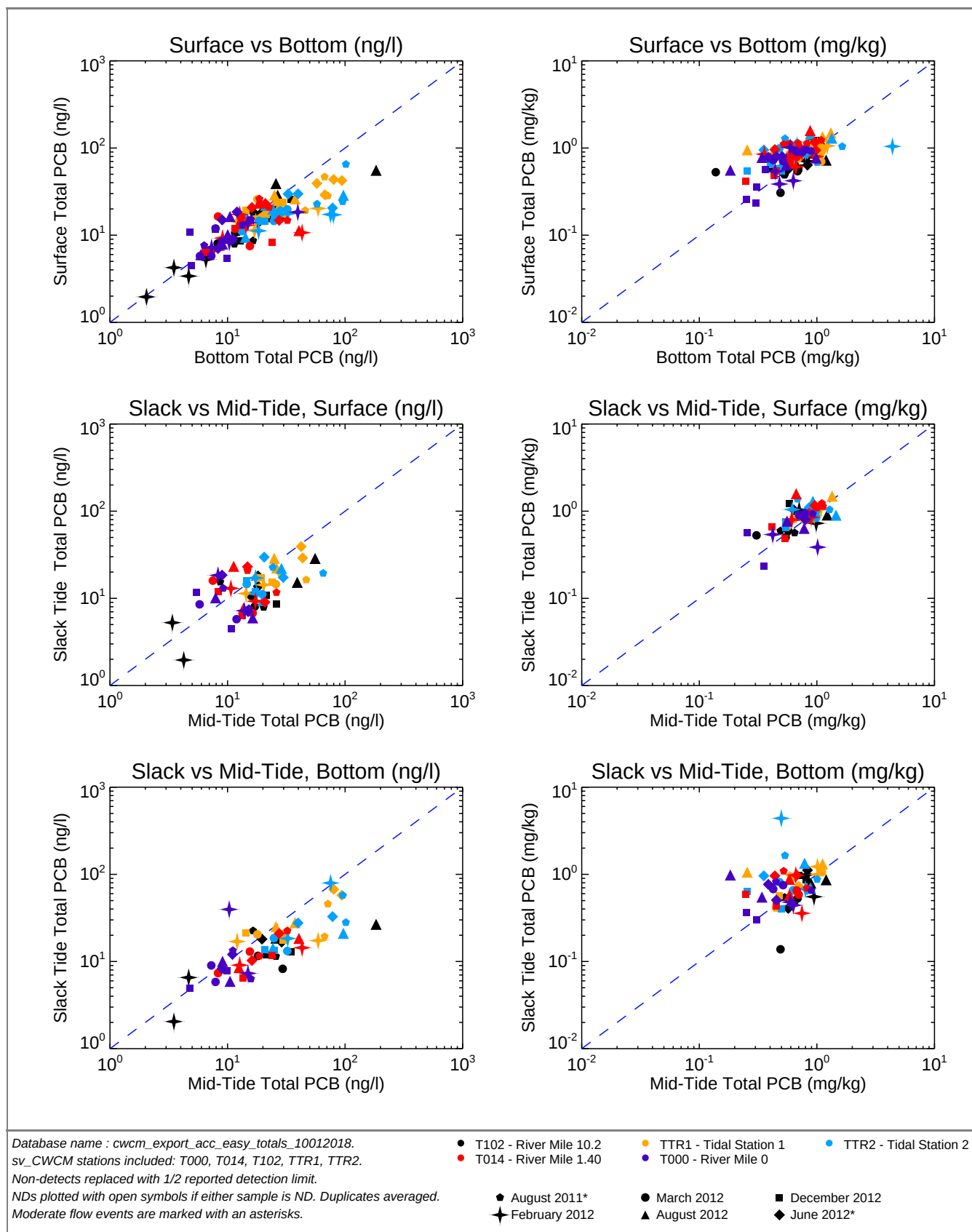


Figure 2-1b

Water Column Total PCB Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

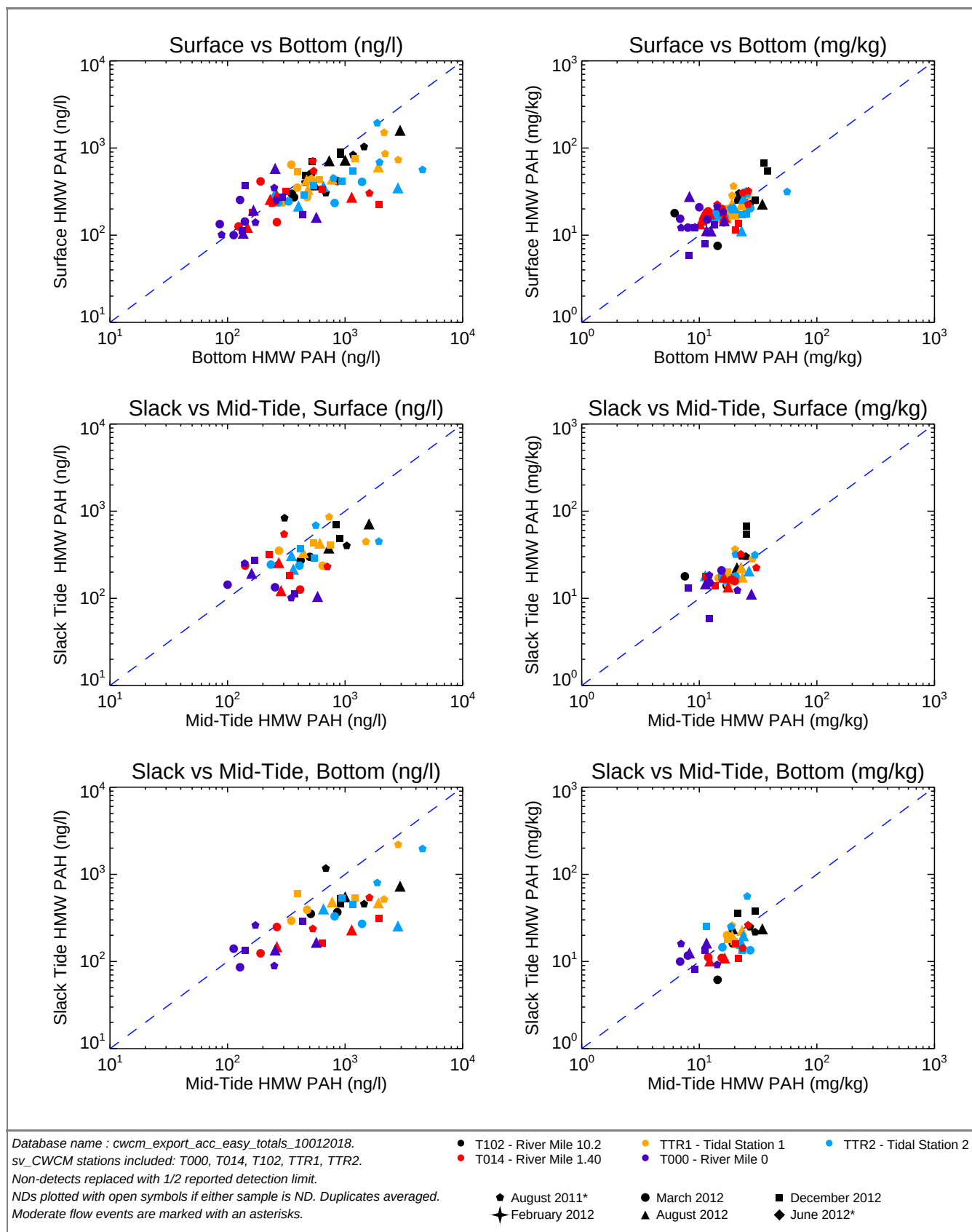


Figure 2-1c

Water Column HMW PAH Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

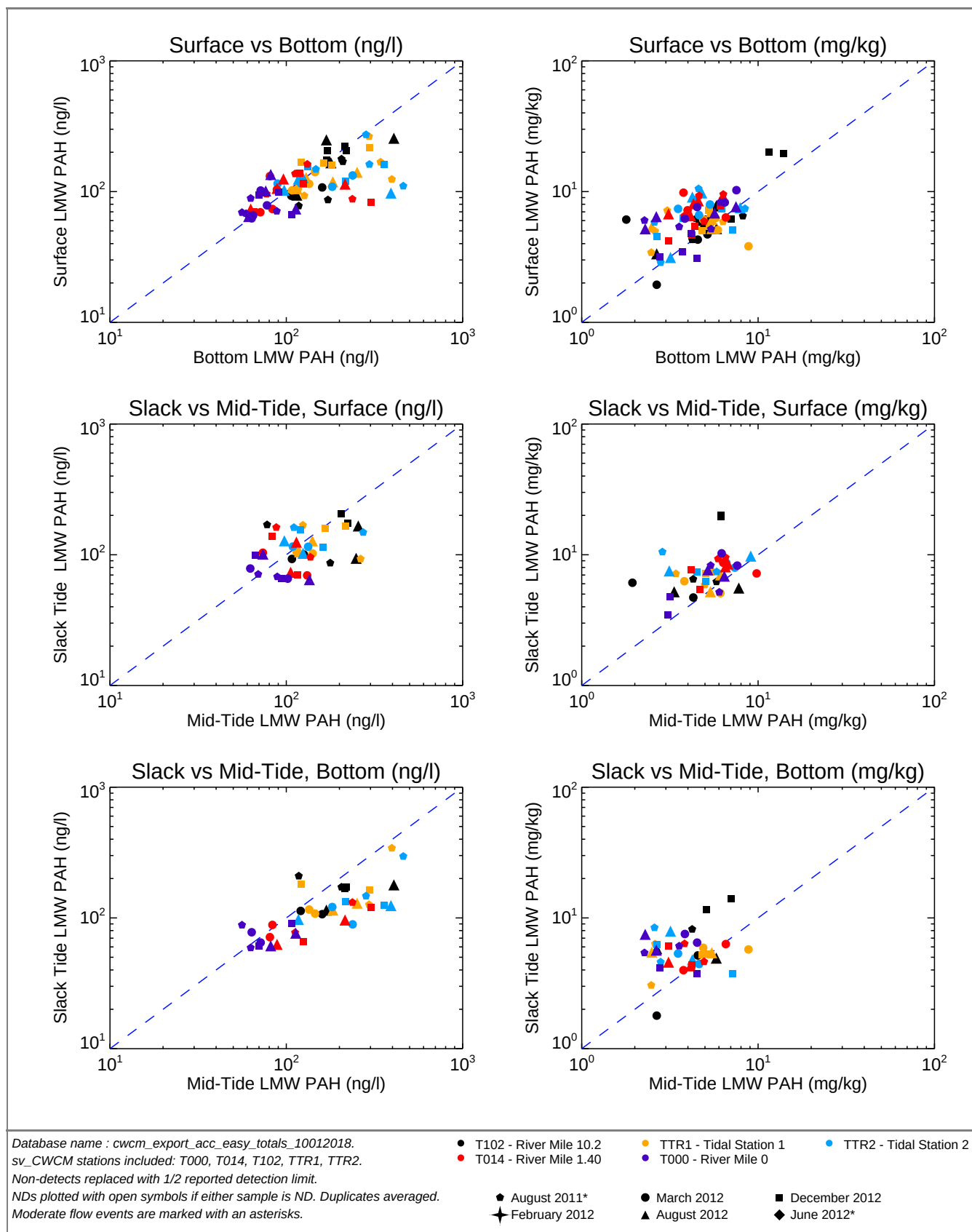


Figure 2-1d

Water Column LMW PAH Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

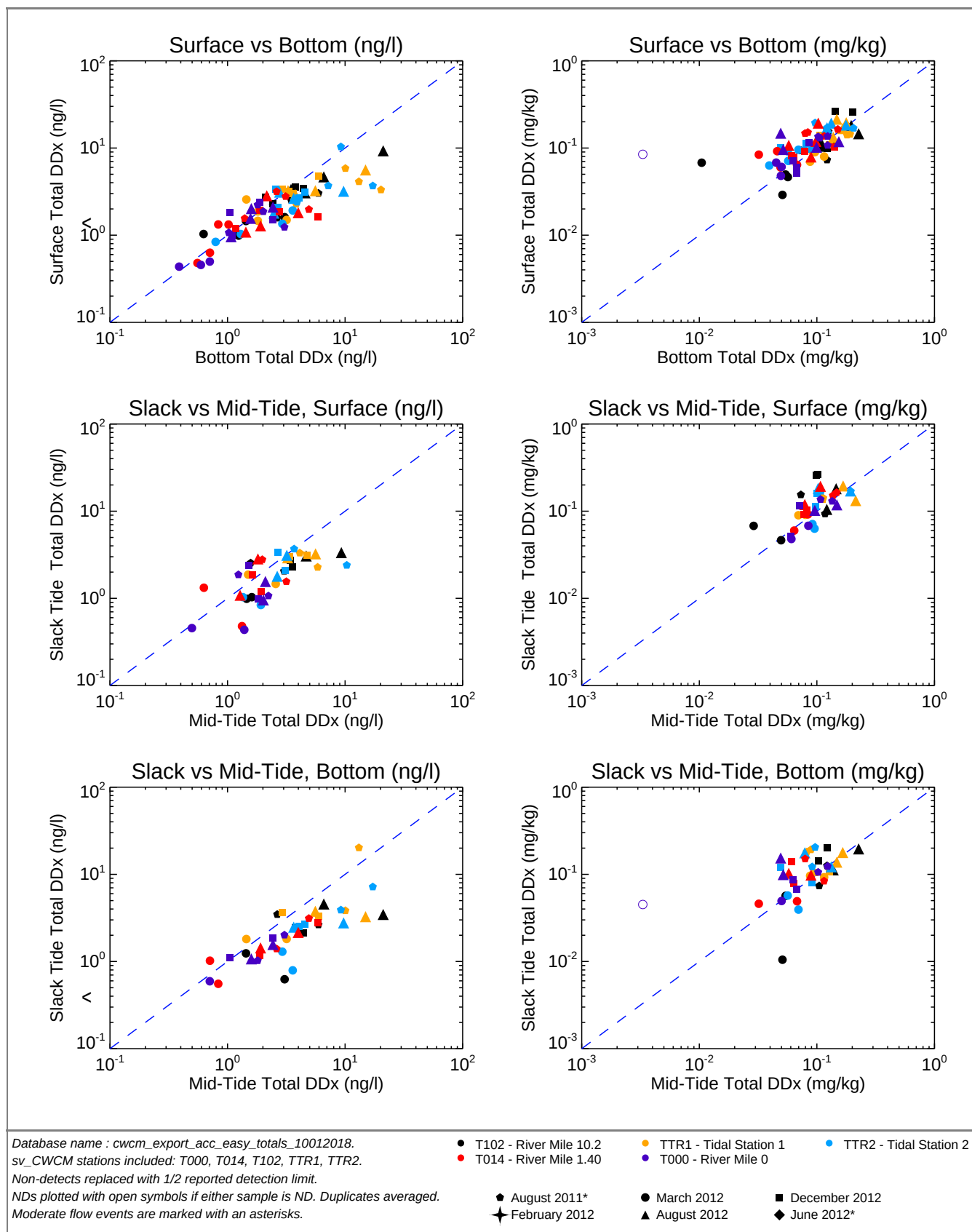


Figure 2-1e

Water Column Total DDx Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

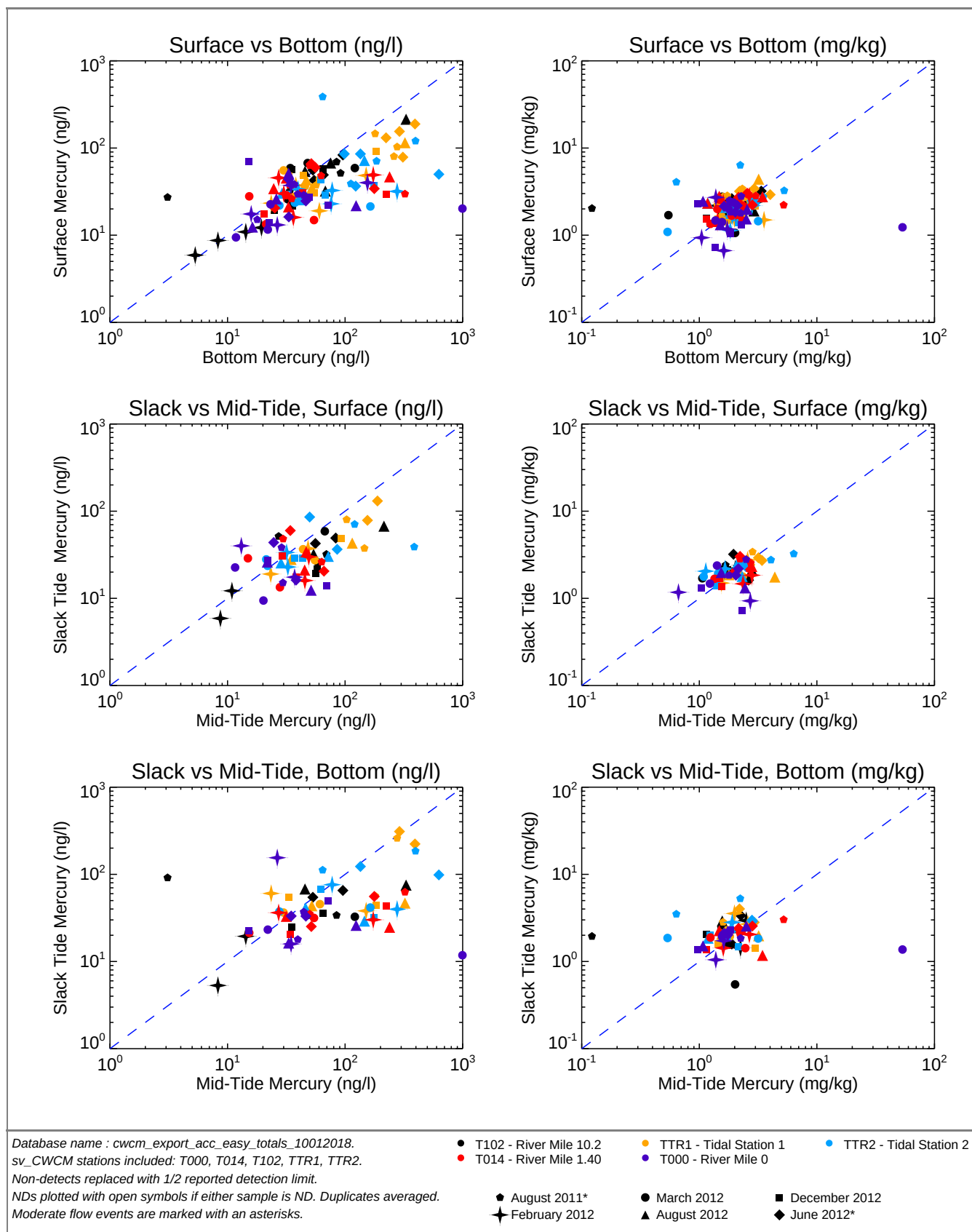
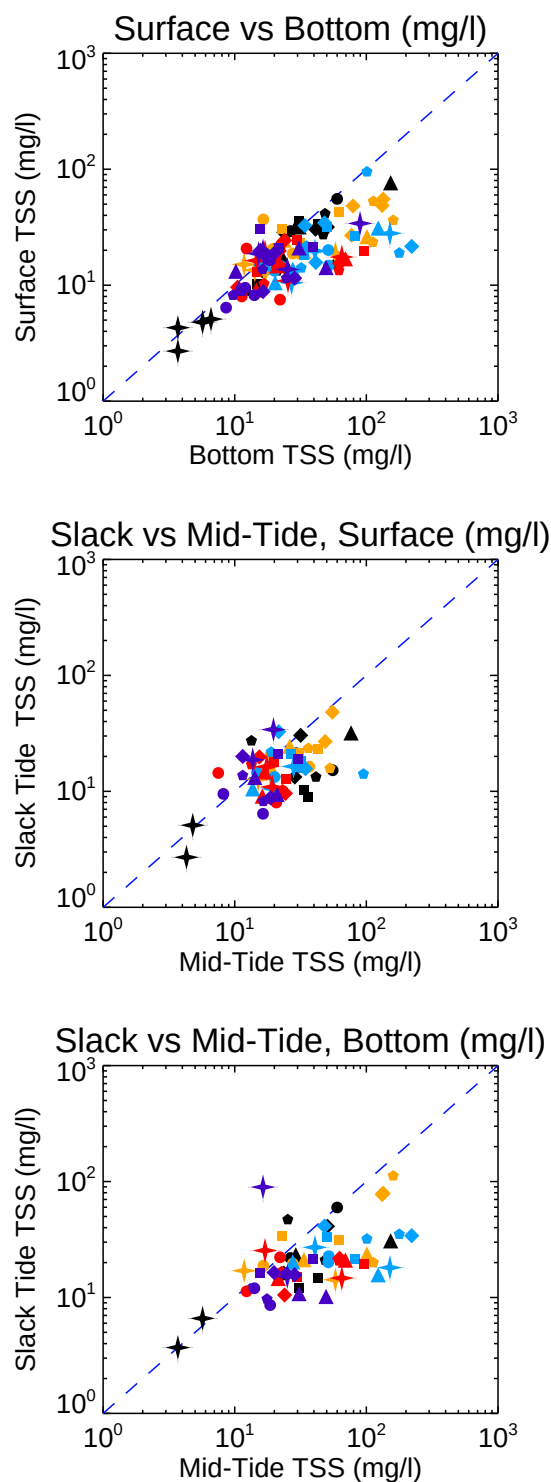


Figure 2-1f

Water Column Mercury Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Database name : cwc_m_export_acc_easy_totals_10012018.

sv_CWCM stations included: T000, T014, T102, TTR1, TTR2.

Non-detects replaced with 1/2 reported detection limit.

NDs plotted with open symbols if either sample is ND. Duplicates averaged.

Moderate flow events are marked with an asterisks.

● T102 - River Mile 10.2

● T014 - River Mile 1.40

● TTR1 - Tidal Station 1

● T000 - River Mile 0

● TTR2 - Tidal Station 2

★ August 2011*

★ February 2012

● March 2012

▲ August 2012

■ December 2012

◆ June 2012*

Publish Date: 06/18/2019 17:34 | User: KMB/EP

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Figure 2-1g

Water Column TSS Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

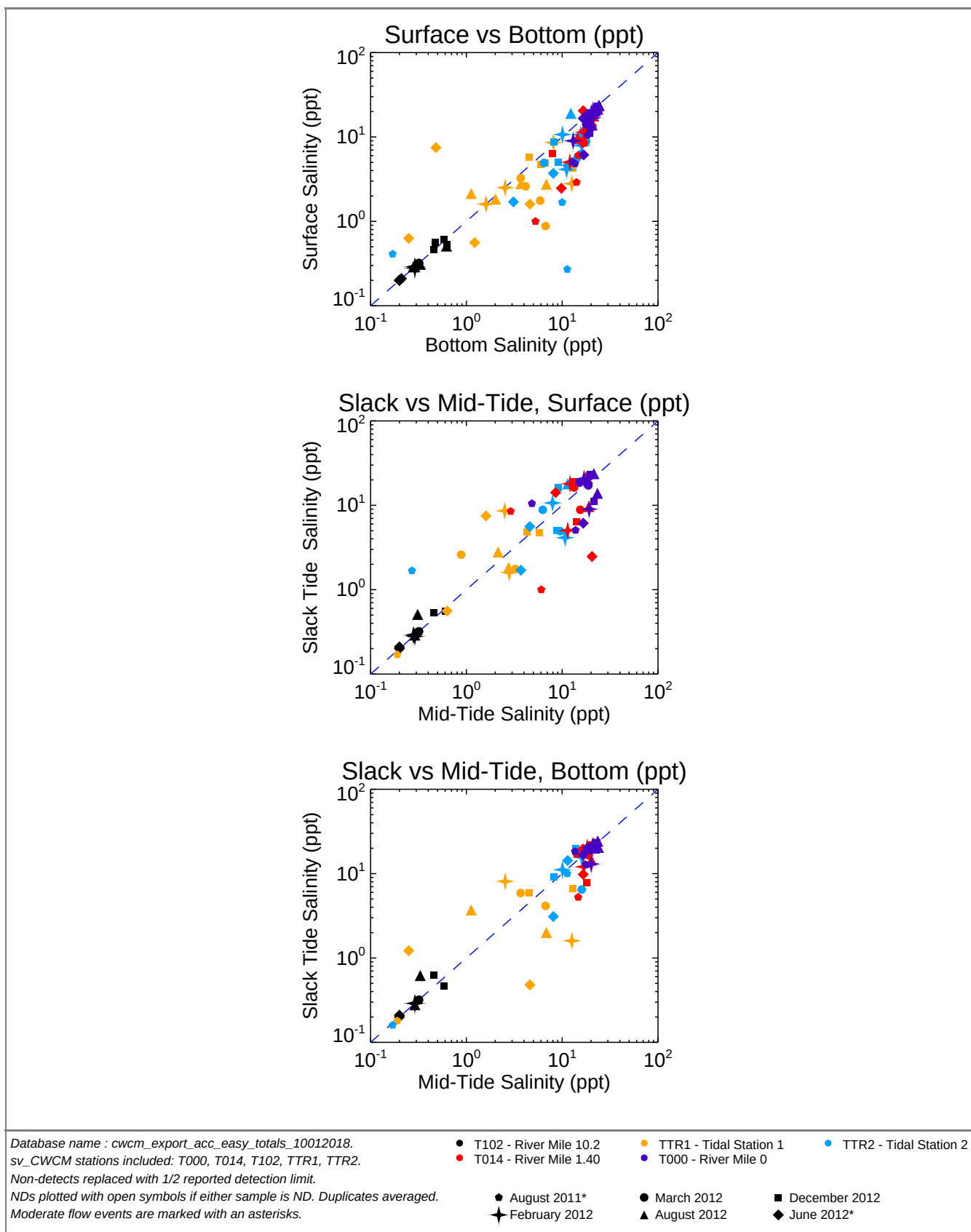


Figure 2-1h

Water Column Salinity Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

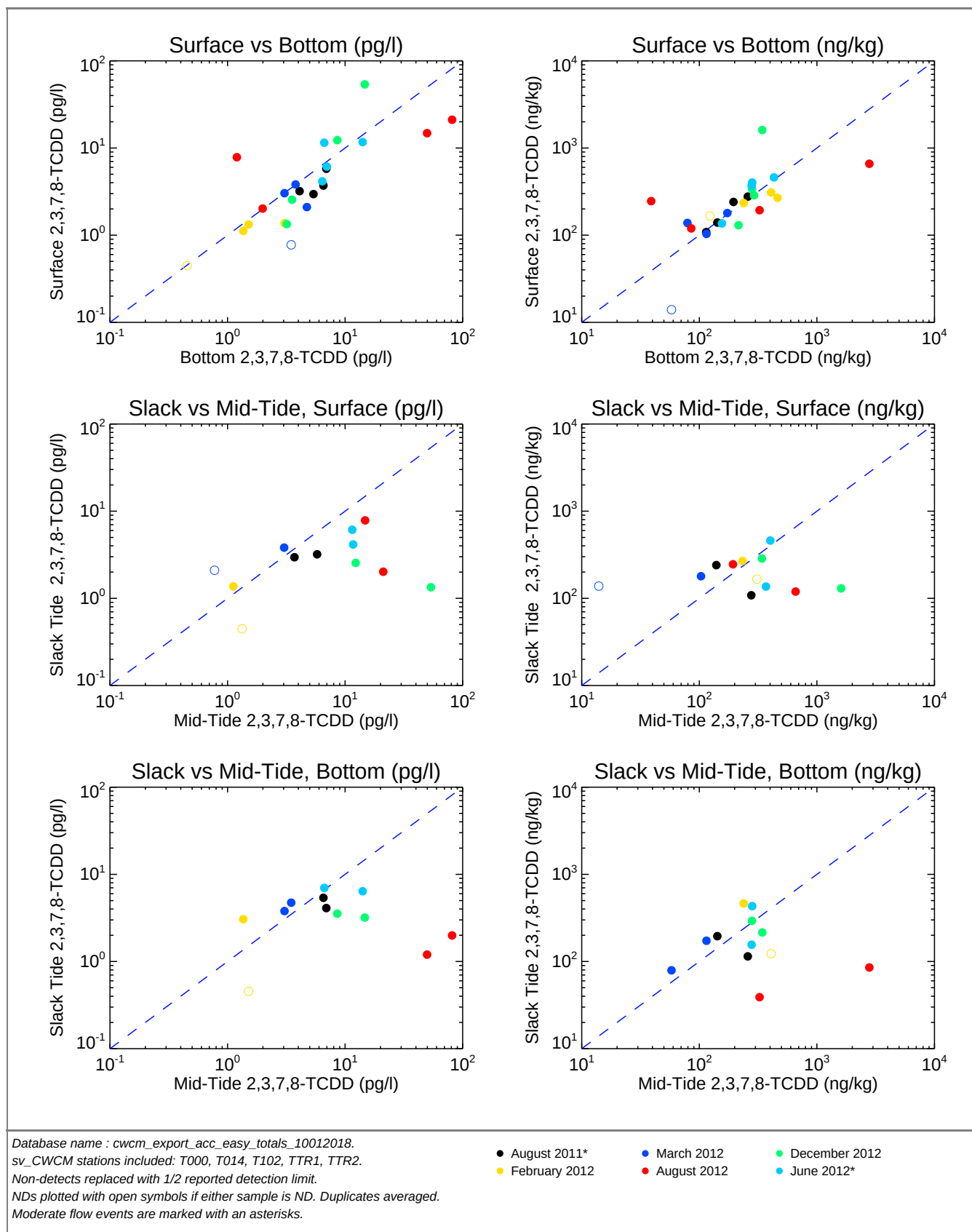


Figure 2-2a

**Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase
by Station: T102**

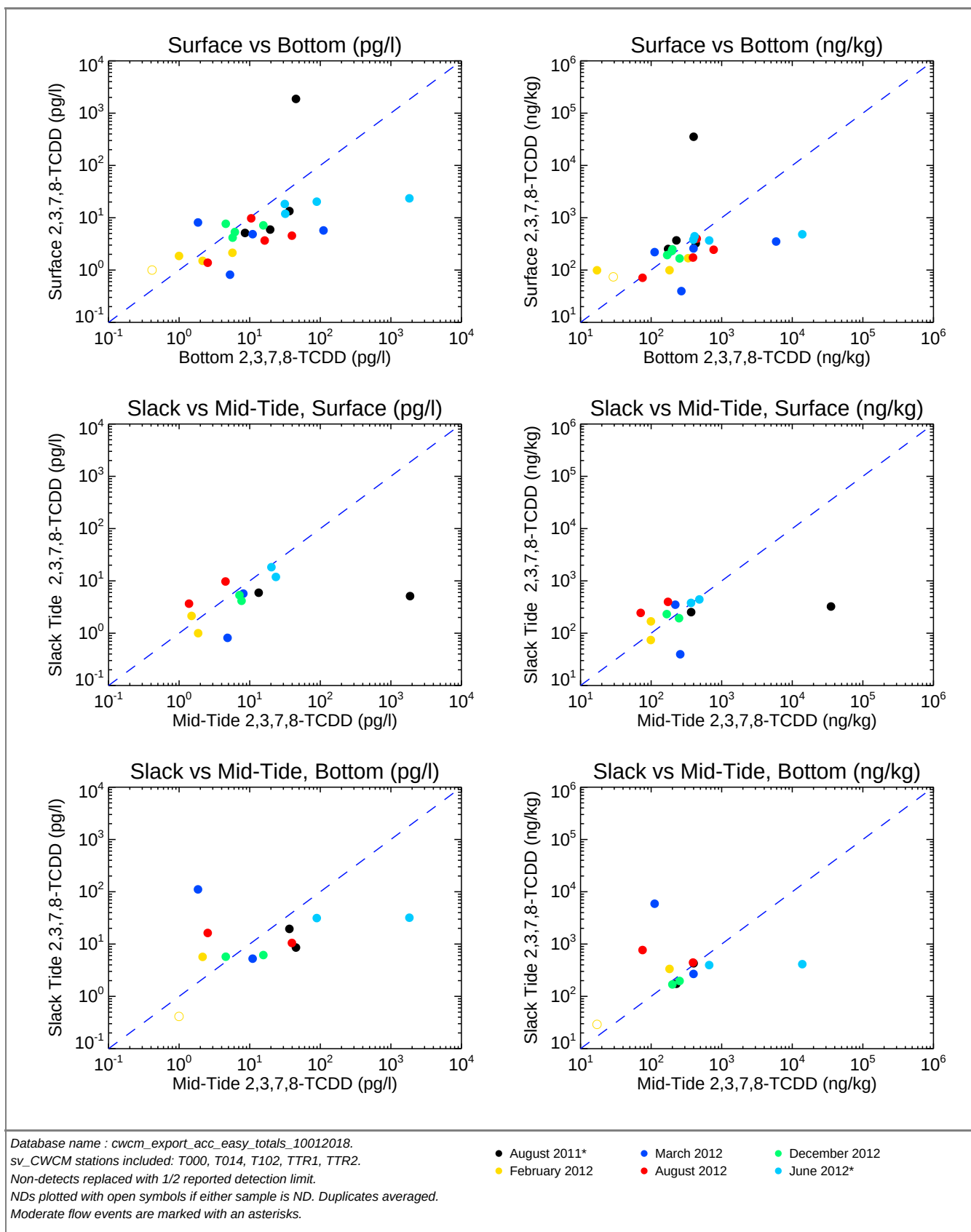


Figure 2-2b

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Station: TTR1

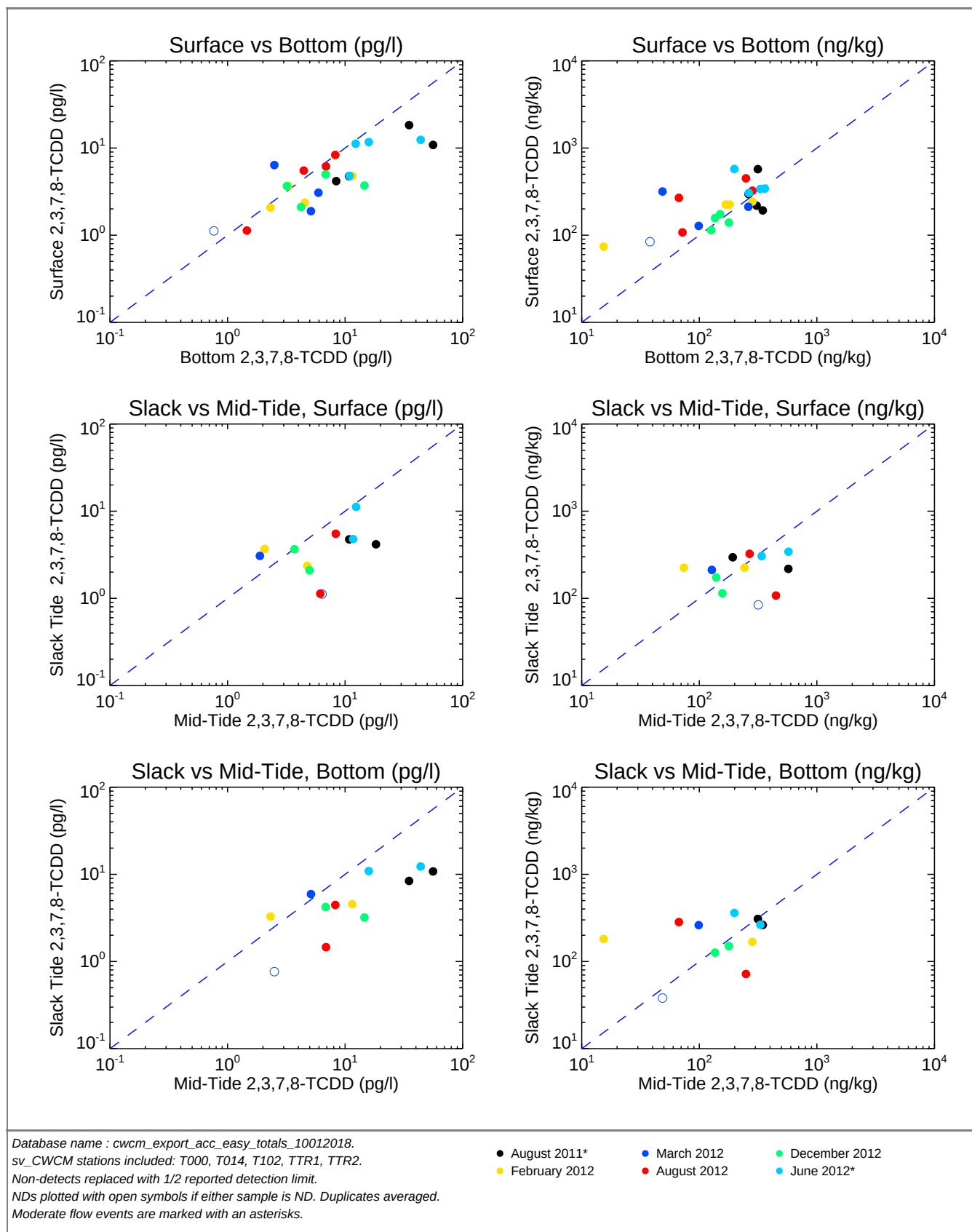


Figure 2-2c

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Station: TTR2

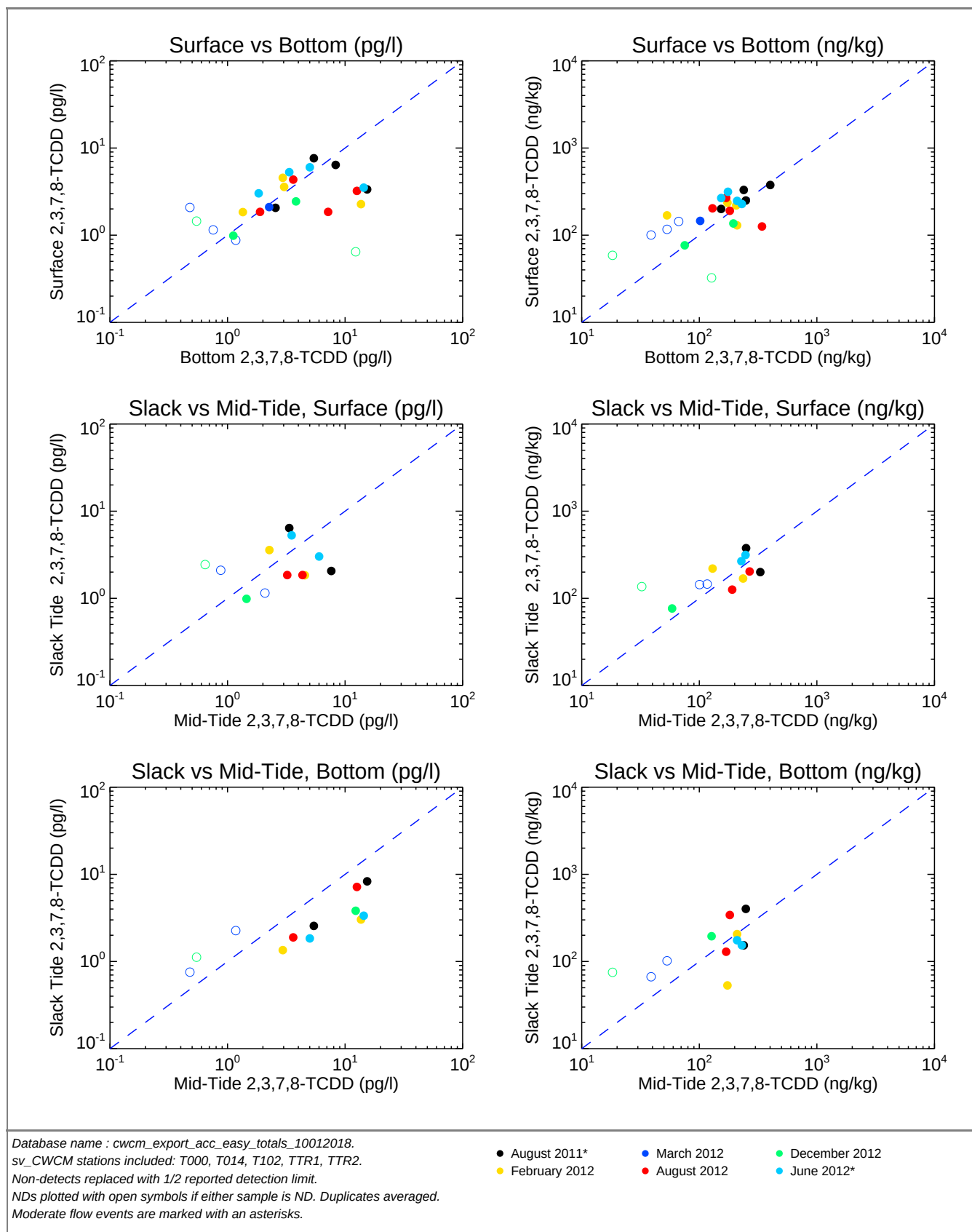


Figure 2-2d

**Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase
 by Station: T014**

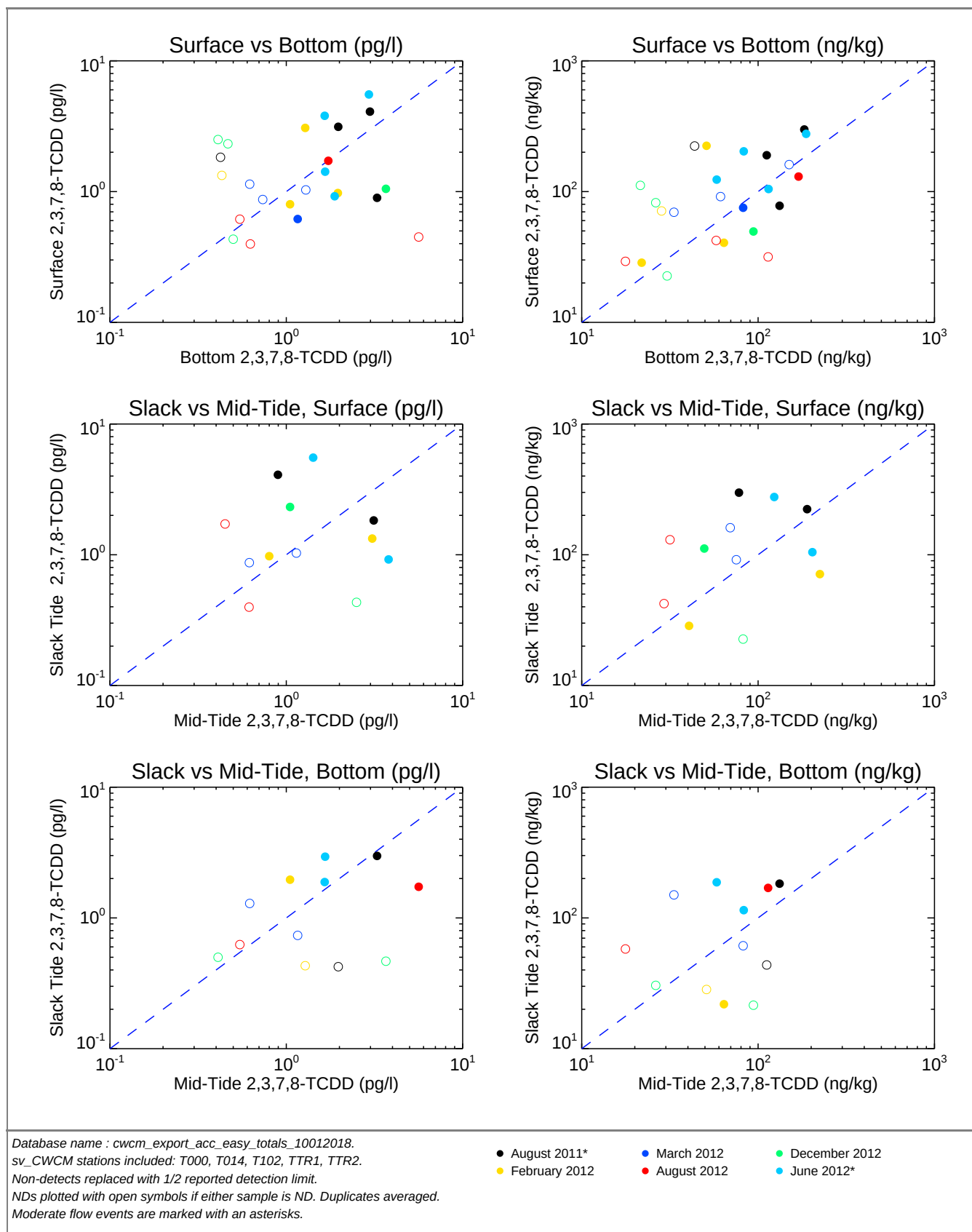


Figure 2-2e

**Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase
 by Station: T000**

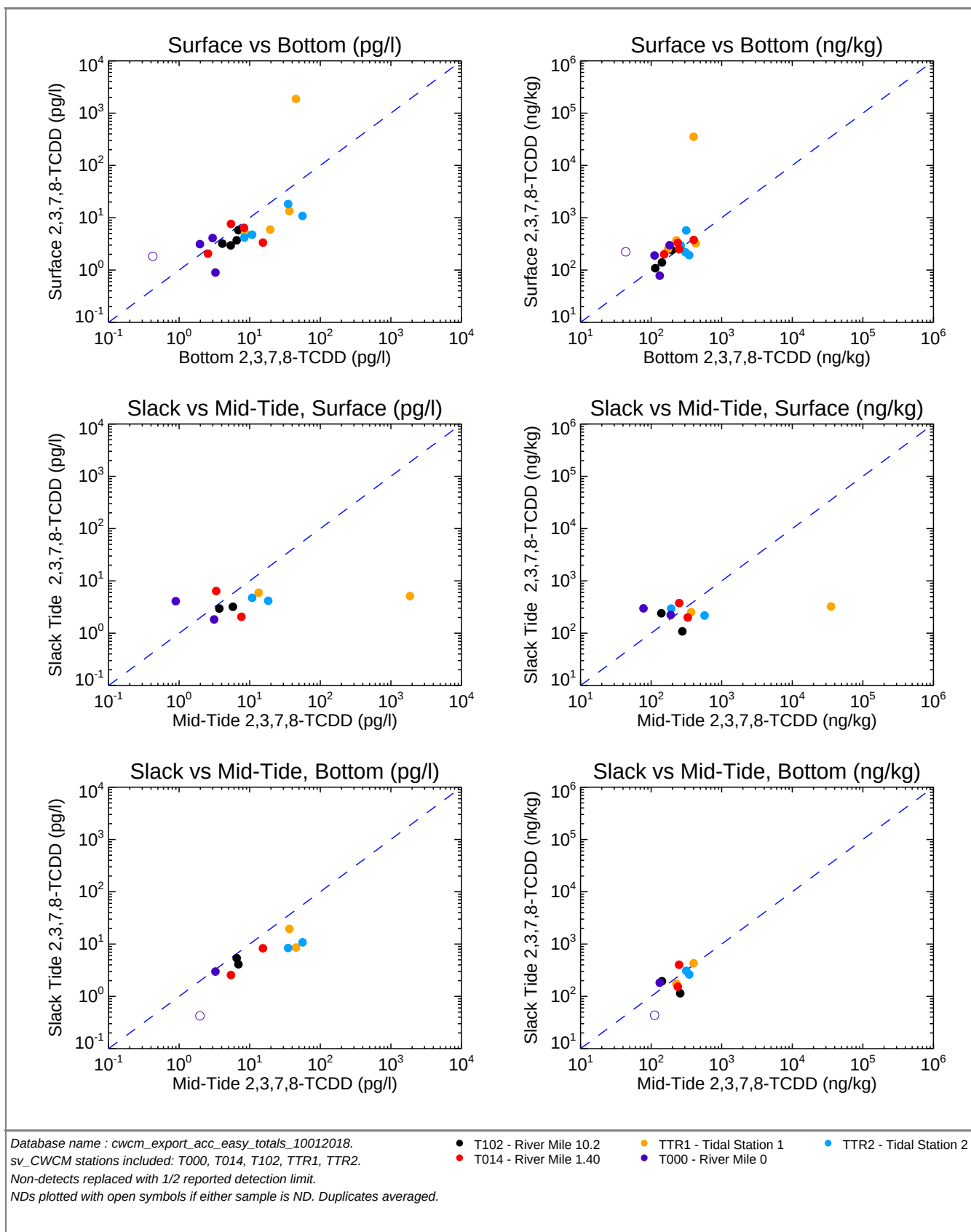


Figure 2-3a

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: August 2011 (Moderate Flow)

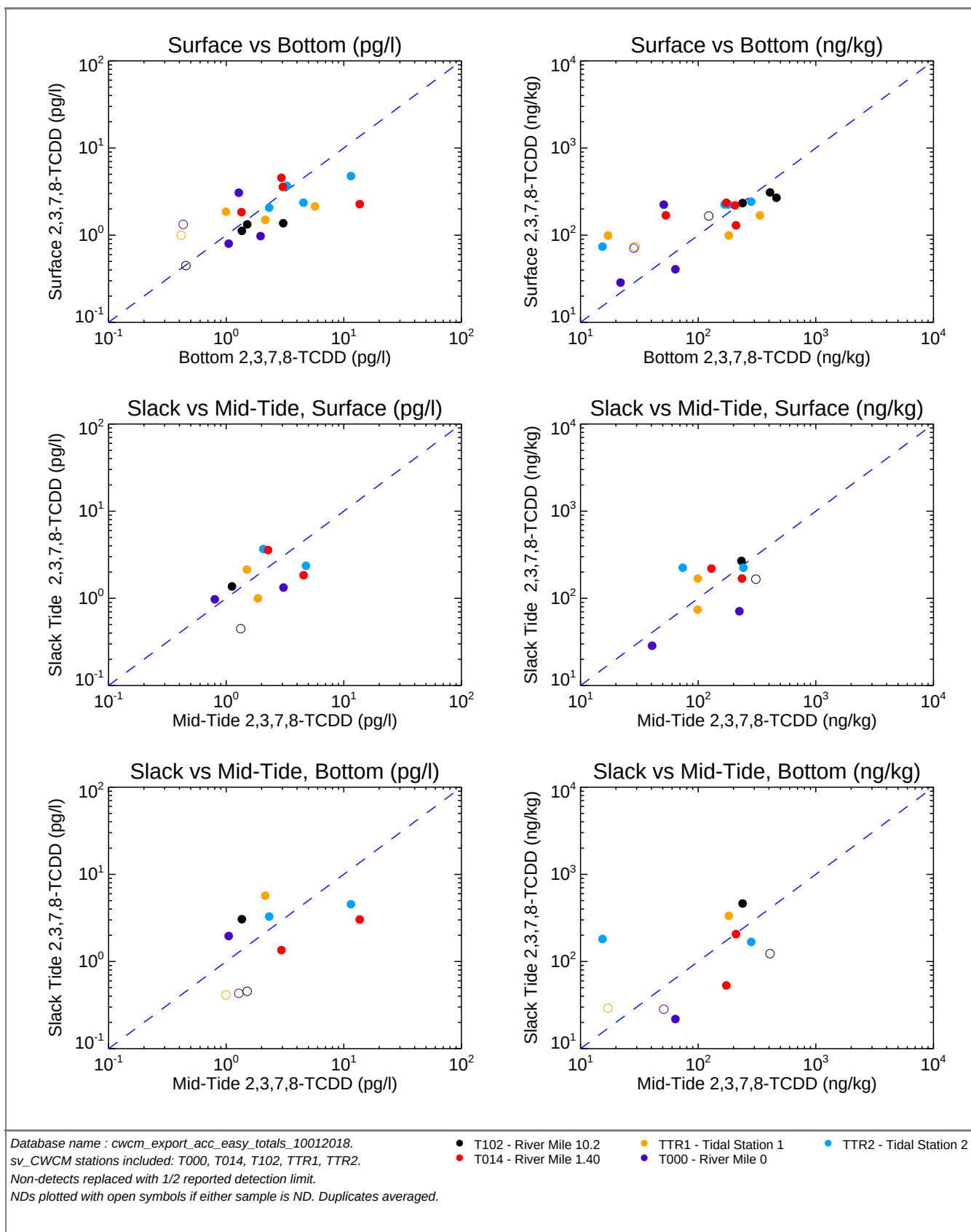


Figure 2-3b

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: February 2012 (Low Flow)

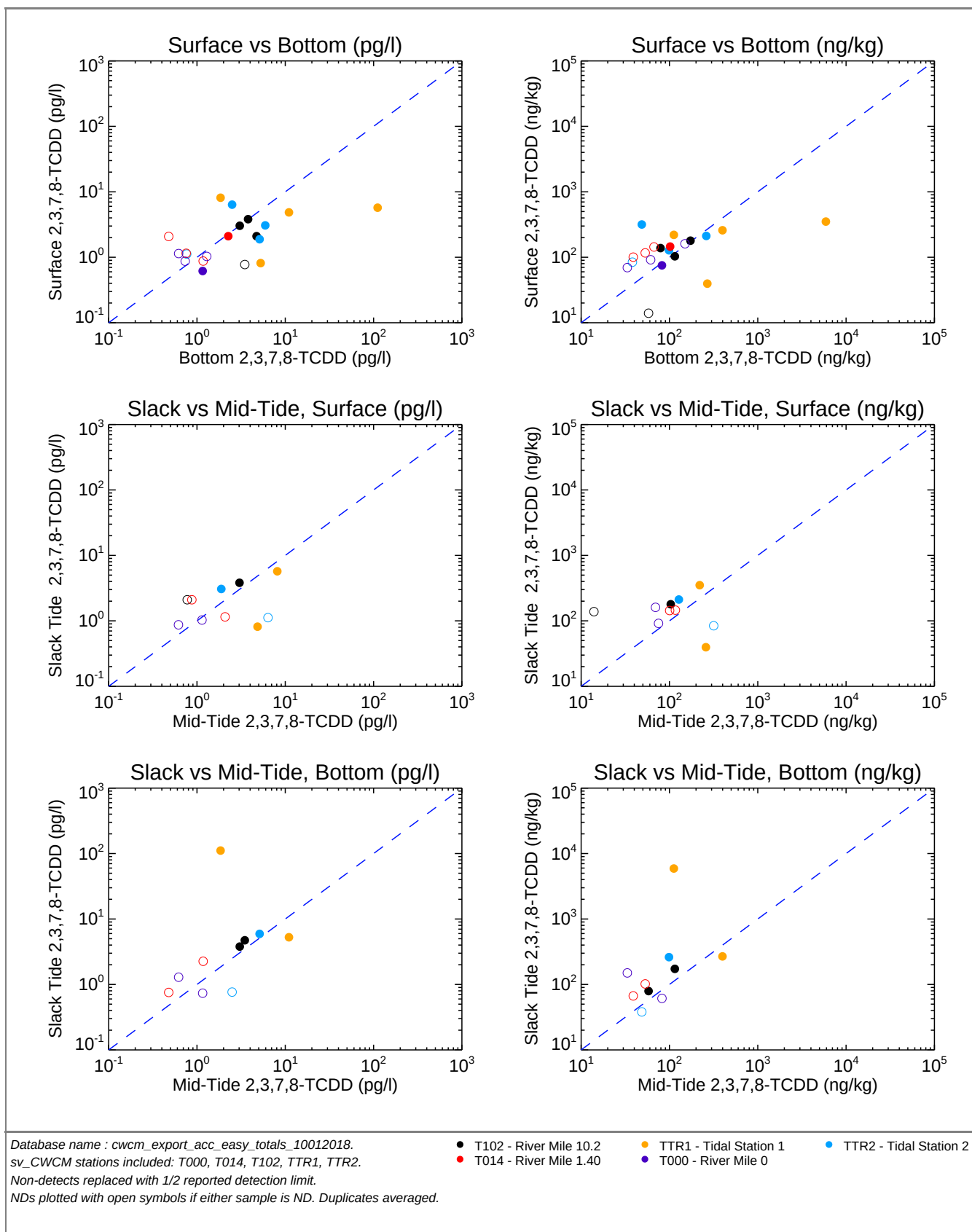


Figure 2-3c

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: March 2012 (Low Flow)

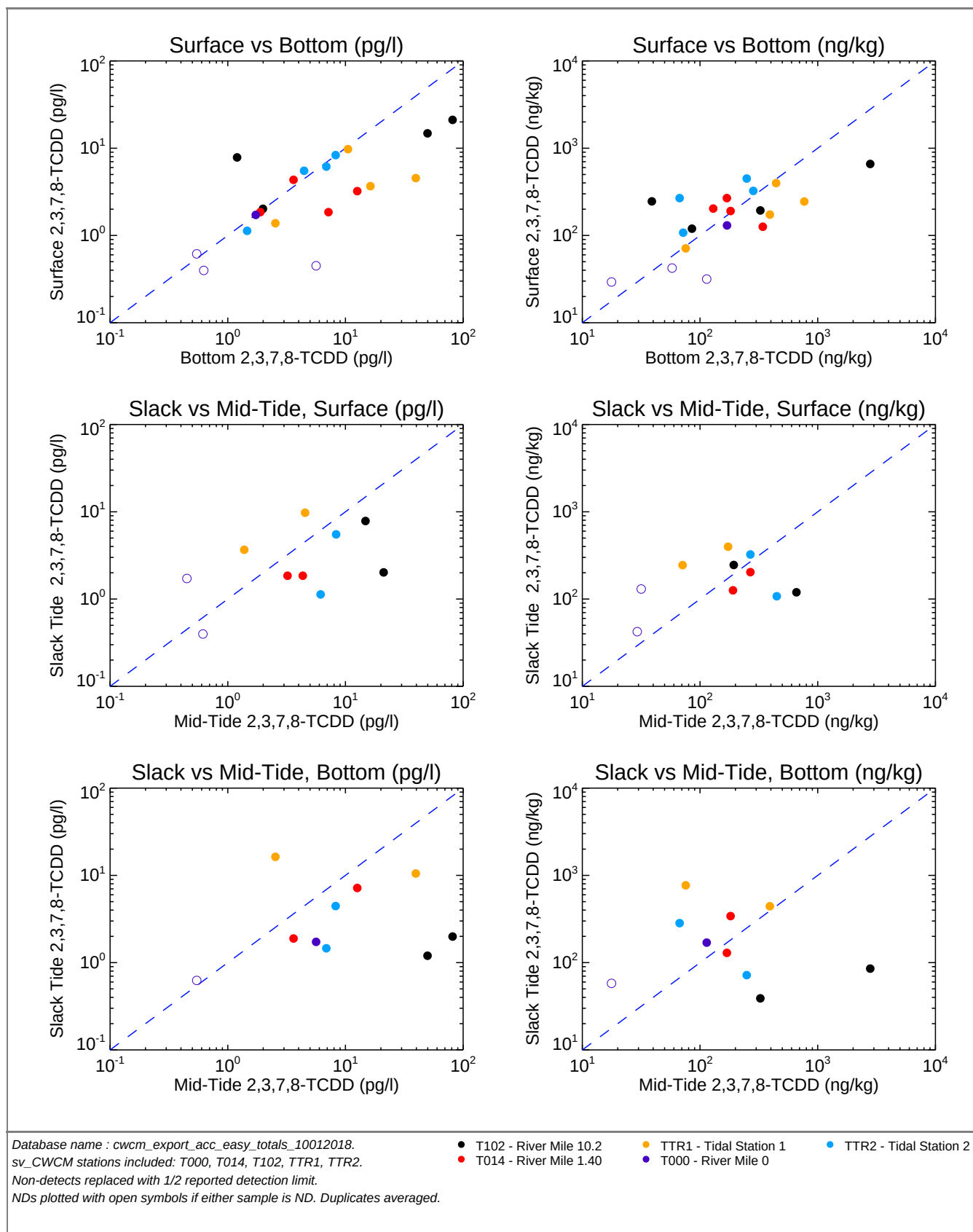


Figure 2-3d

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: August 2012 (Low Flow)

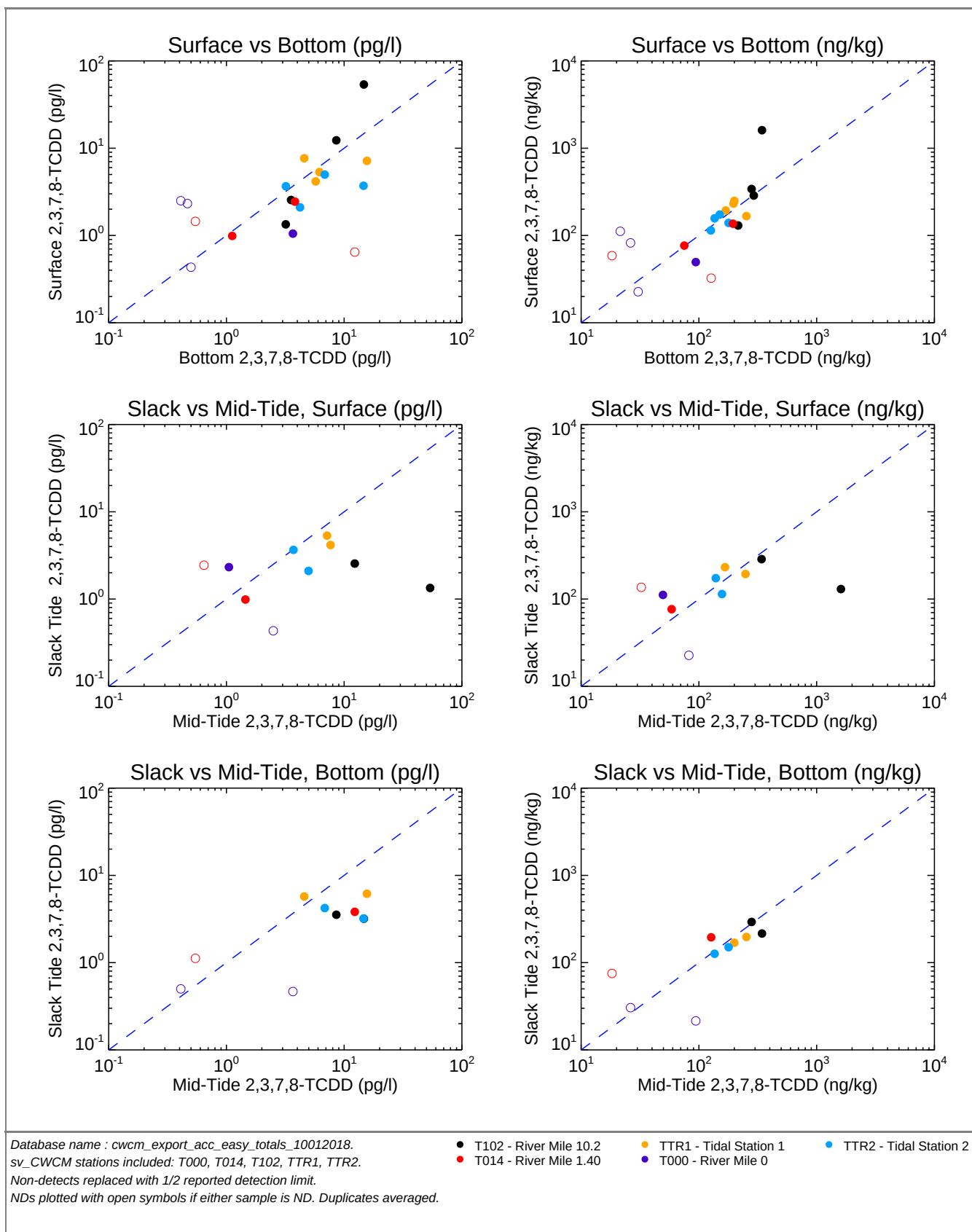


Figure 2-3e

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: December 2012 (Low Flow)

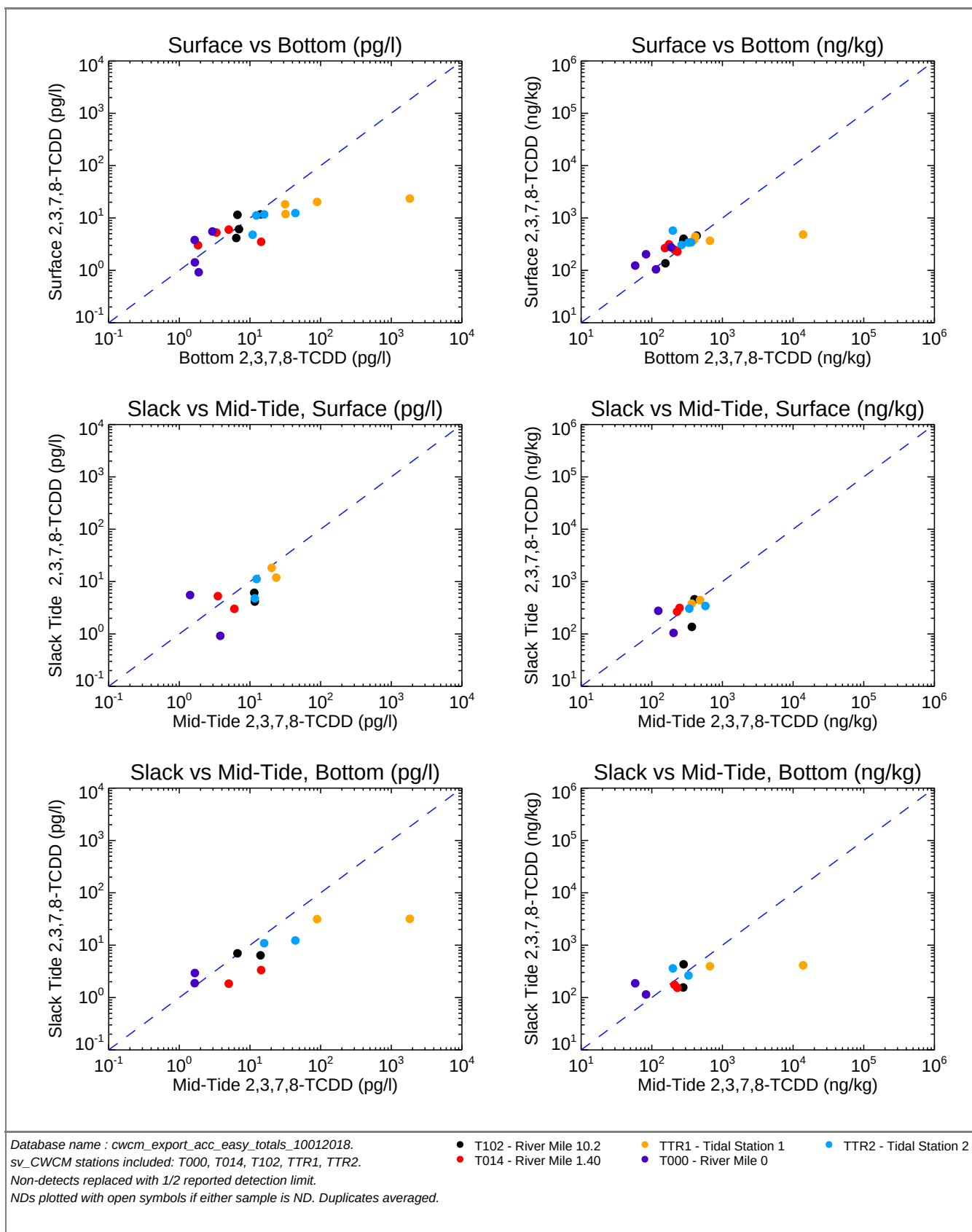


Figure 2-3f

Water Column 2,3,7,8-TCDD Concentrations at LPR sv-CWCM Stations by Depth and Tidal Phase by Event: June 2012 (Moderate Flow)

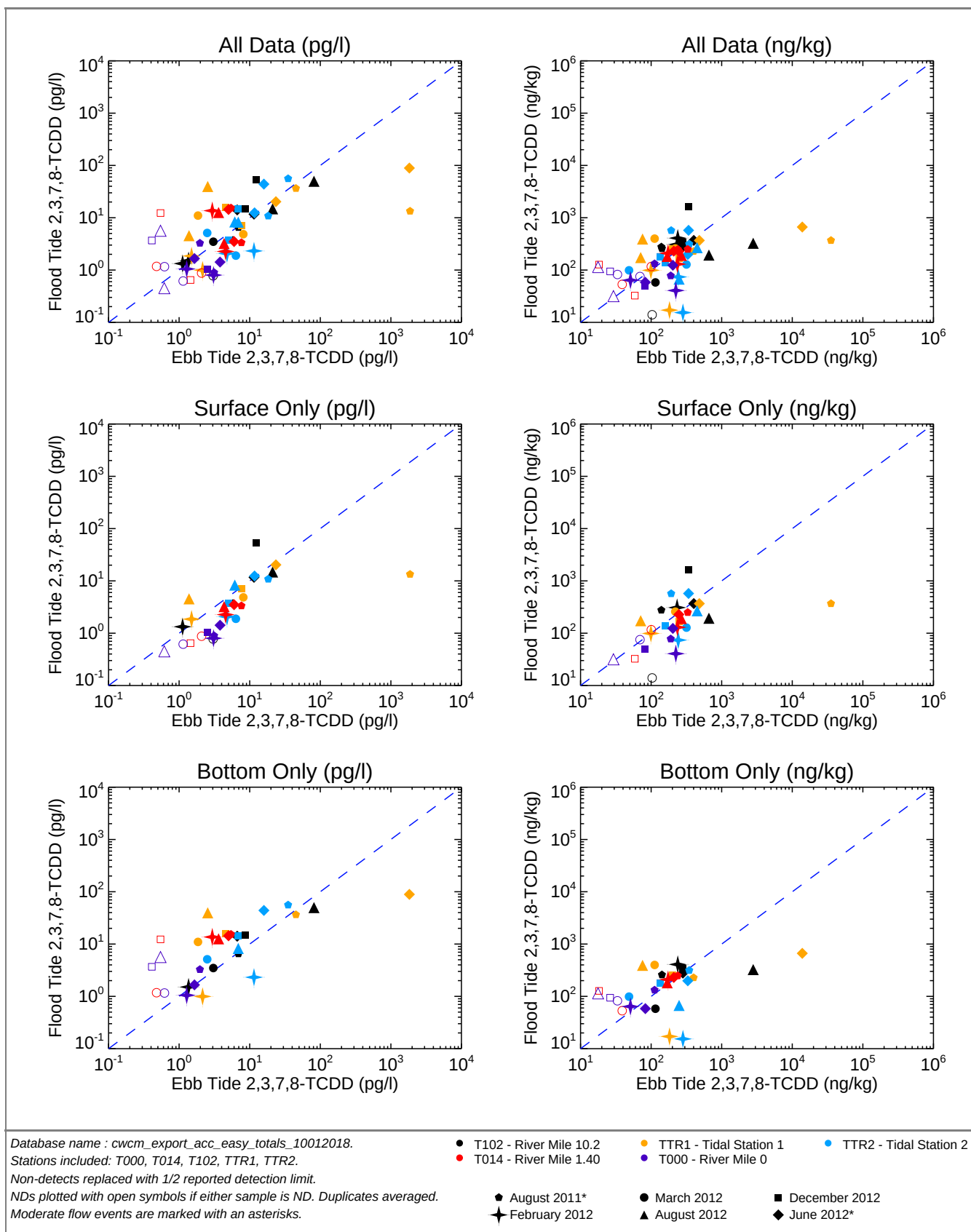


Figure 2-4a

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

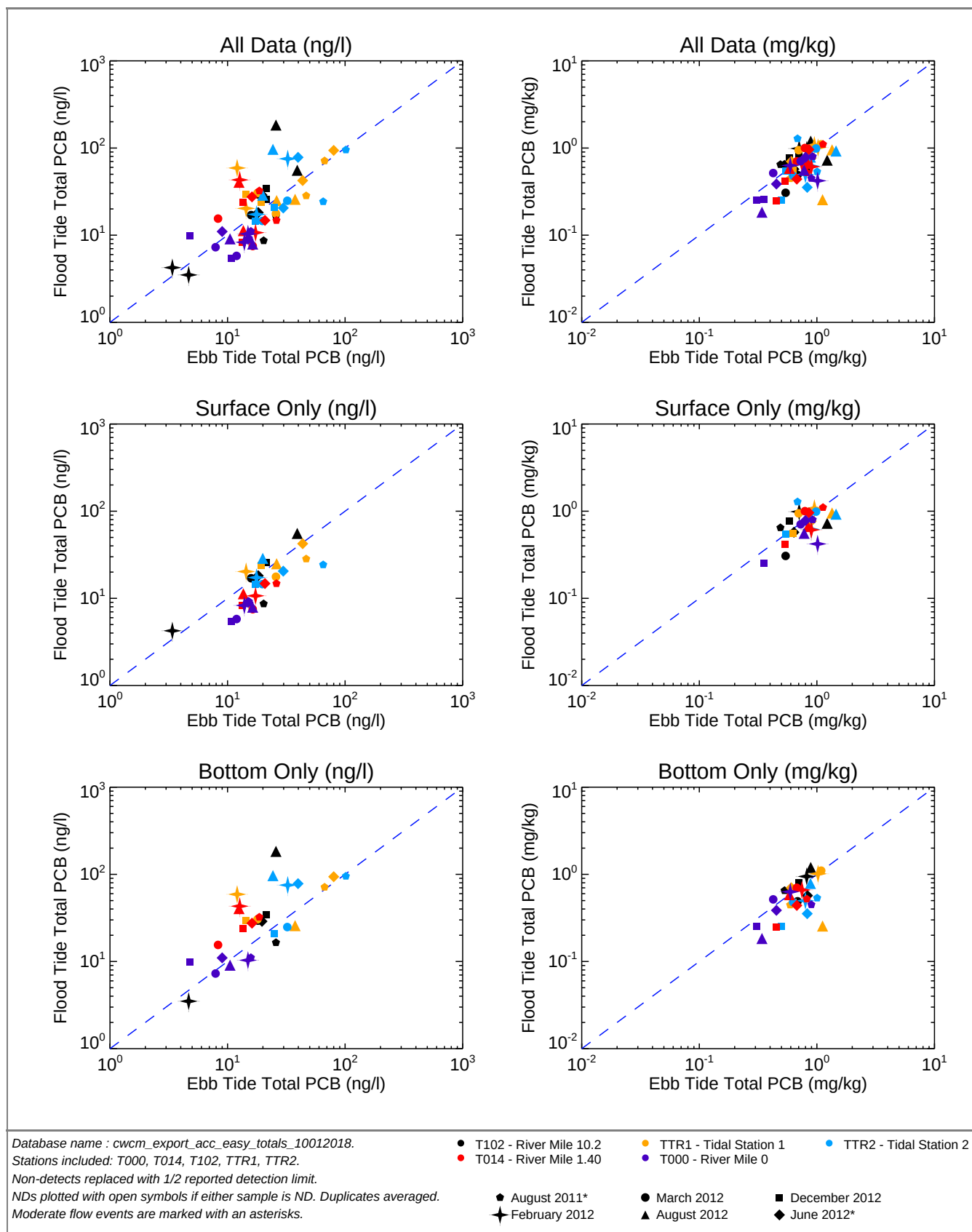


Figure 2-4b

Water Column Total PCB Concentrations at LPR Stations, Mid-Tide Comparison

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 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

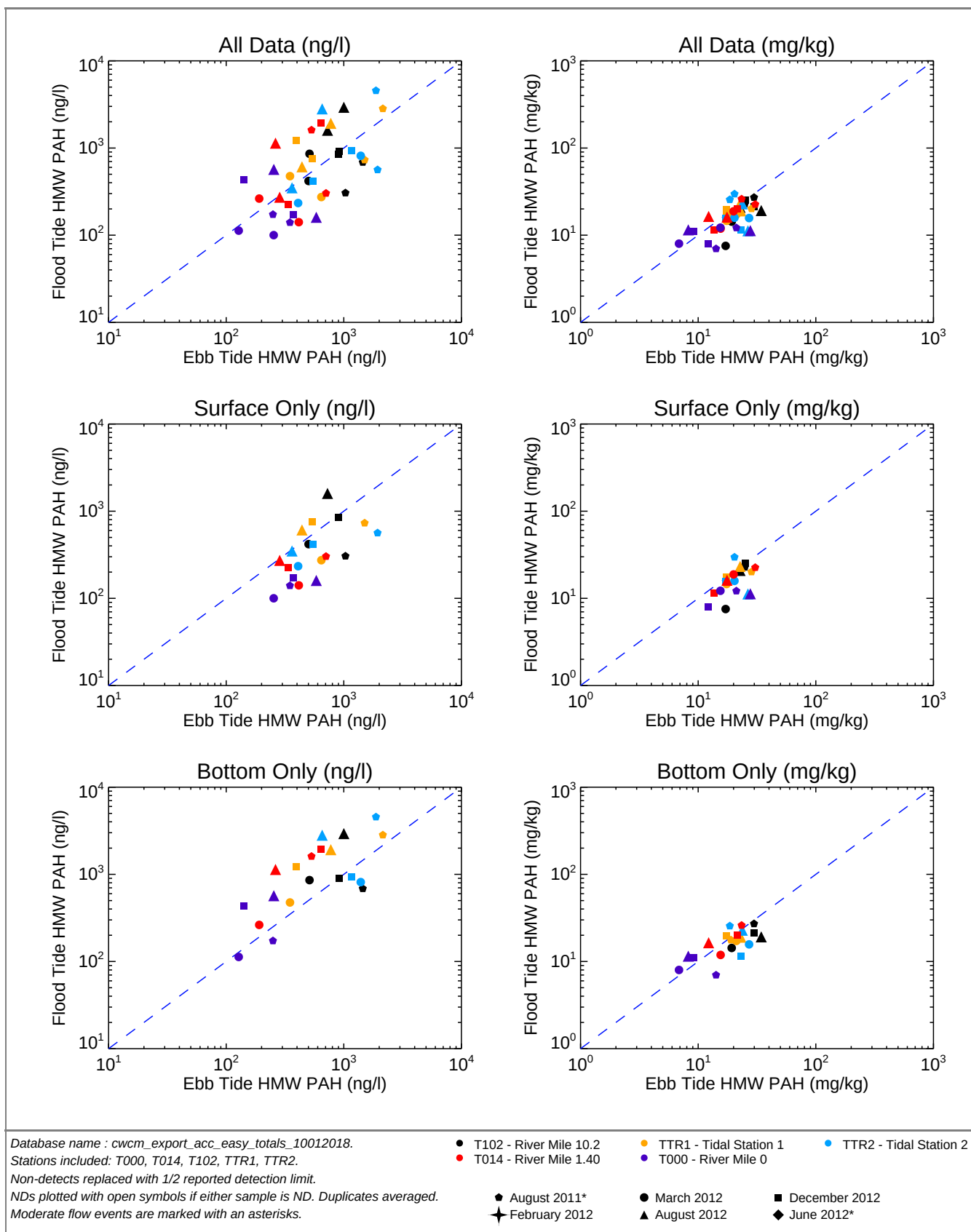


Figure 2-4c

Water Column HMW PAH Concentrations at LPR Stations, Mid-Tide Comparison

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

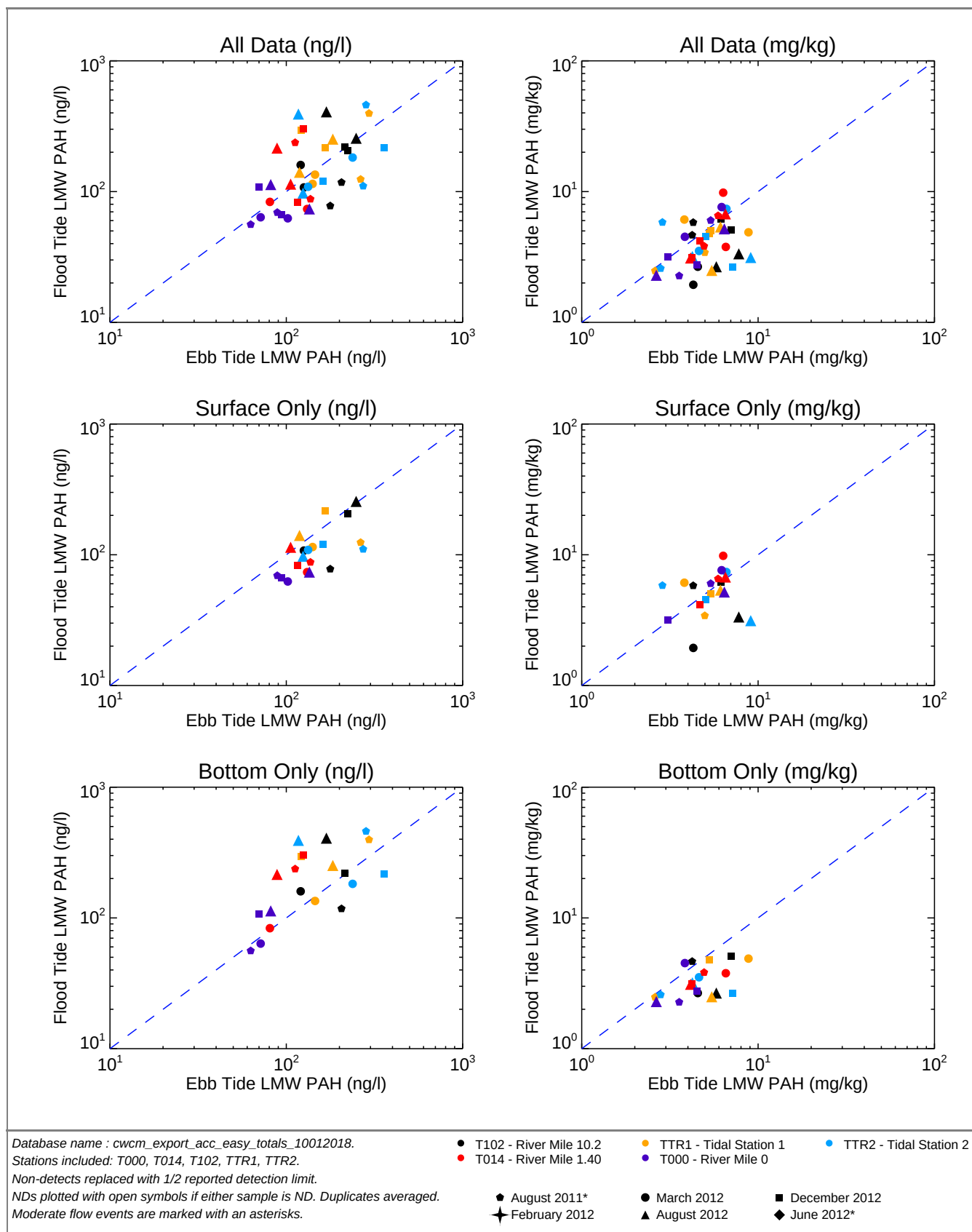


Figure 2-4d

Water Column LMW PAH Concentrations at LPR Stations, Mid-Tide Comparison

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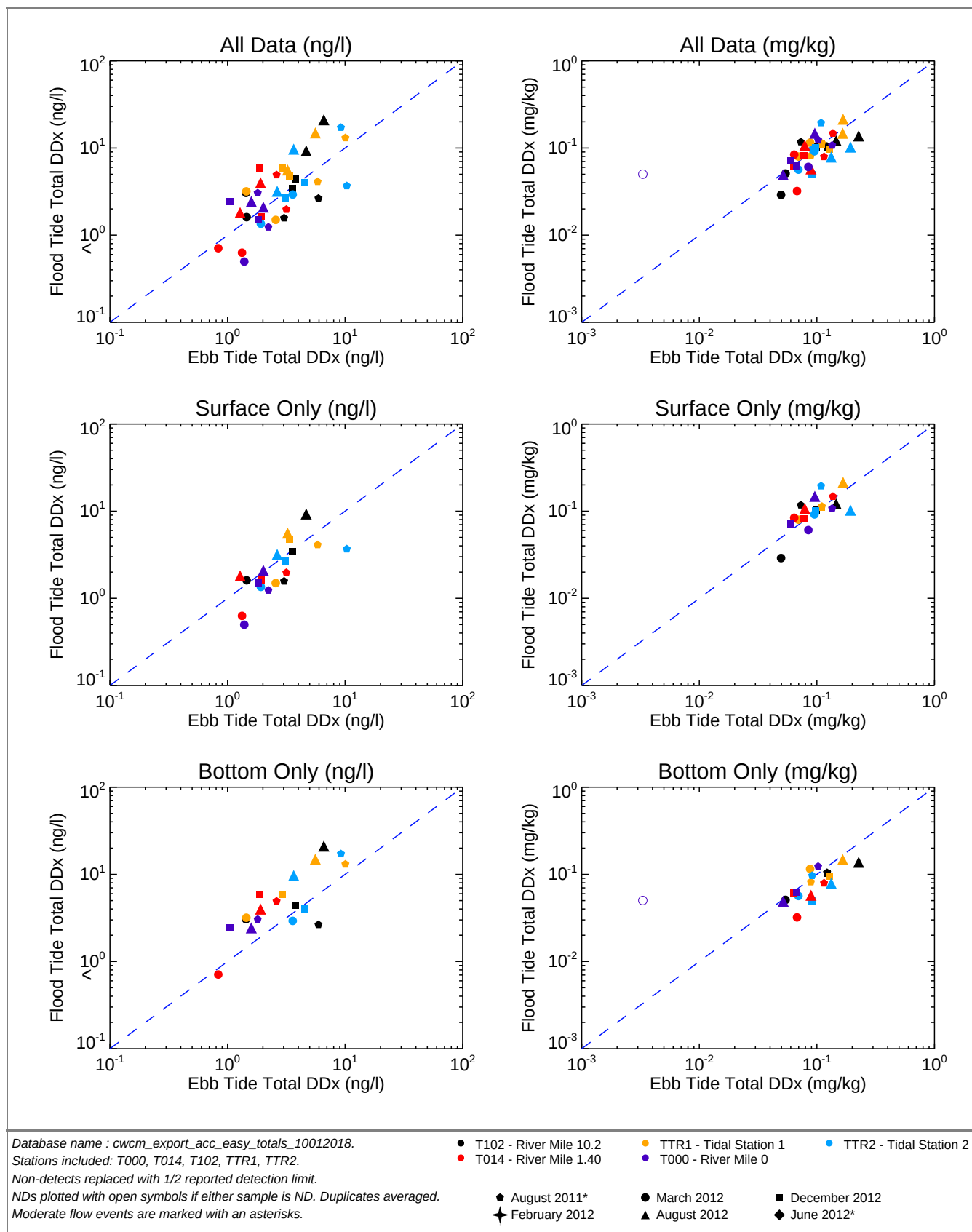


Figure 2-4e

Water Column Total DDx Concentrations at LPR Stations, Mid-Tide Comparison

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study

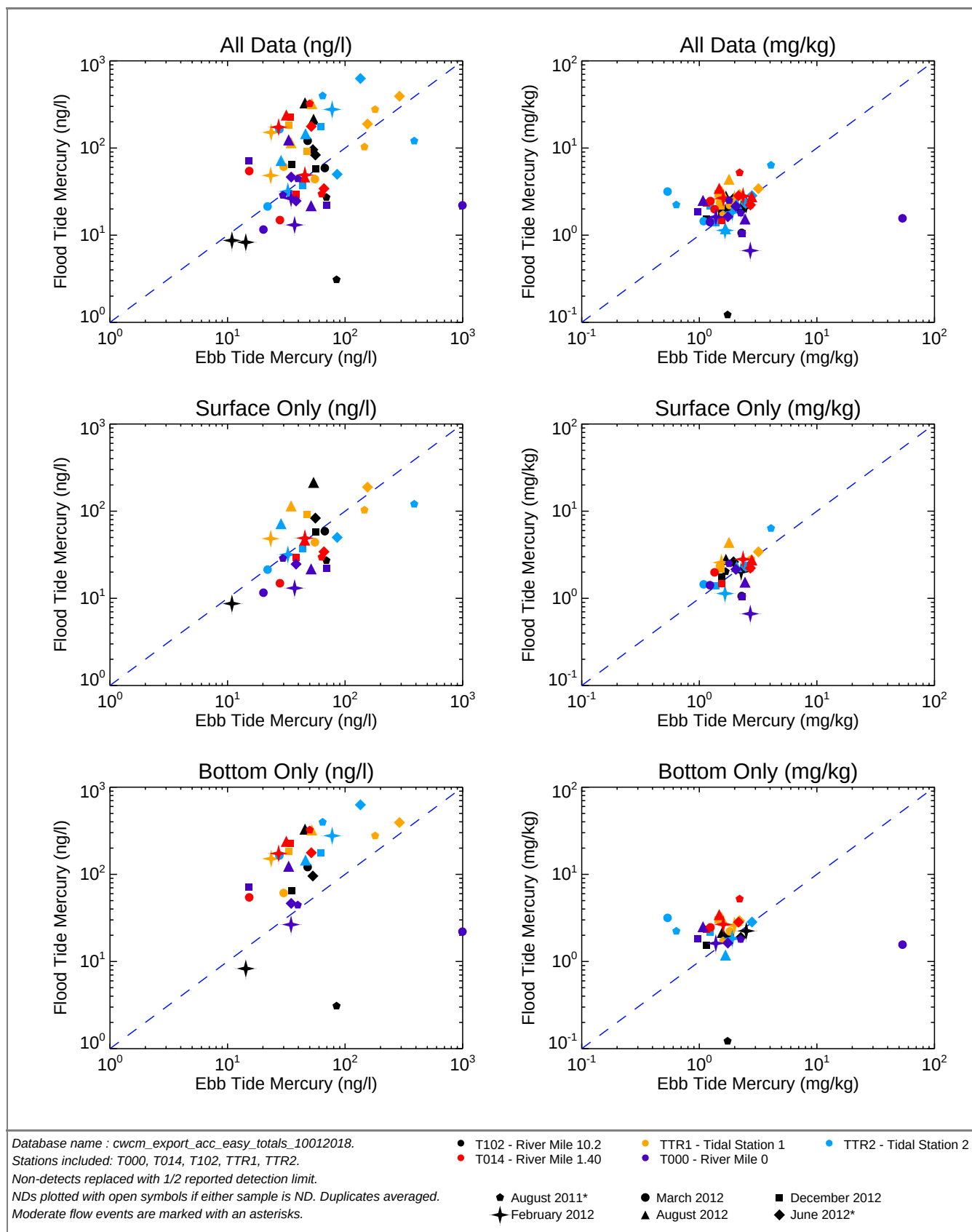
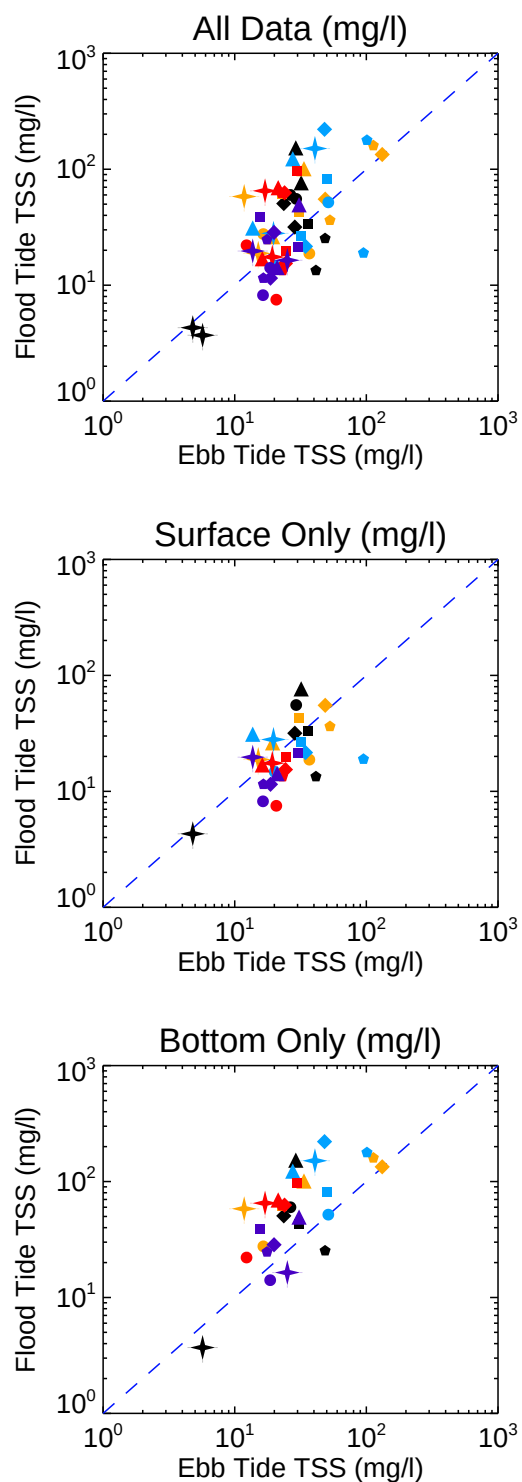


Figure 2-4f

Water Column Mercury Concentrations at LPR Stations, Mid-Tide Comparison

Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Database name : cwc_m_export_acc_easy_totals_10012018.

Stations included: T000, T014, T102, TTR1, TTR2.

Non-detects replaced with 1/2 reported detection limit.

NDs plotted with open symbols if either sample is ND. Duplicates averaged.

Moderate flow events are marked with an asterisks.

● T102 - River Mile 10.2

● T014 - River Mile 1.40

● TTR1 - Tidal Station 1

● T000 - River Mile 0

● TTR2 - Tidal Station 2

◆ August 2011*

◆ February 2012

● March 2012

▲ August 2012

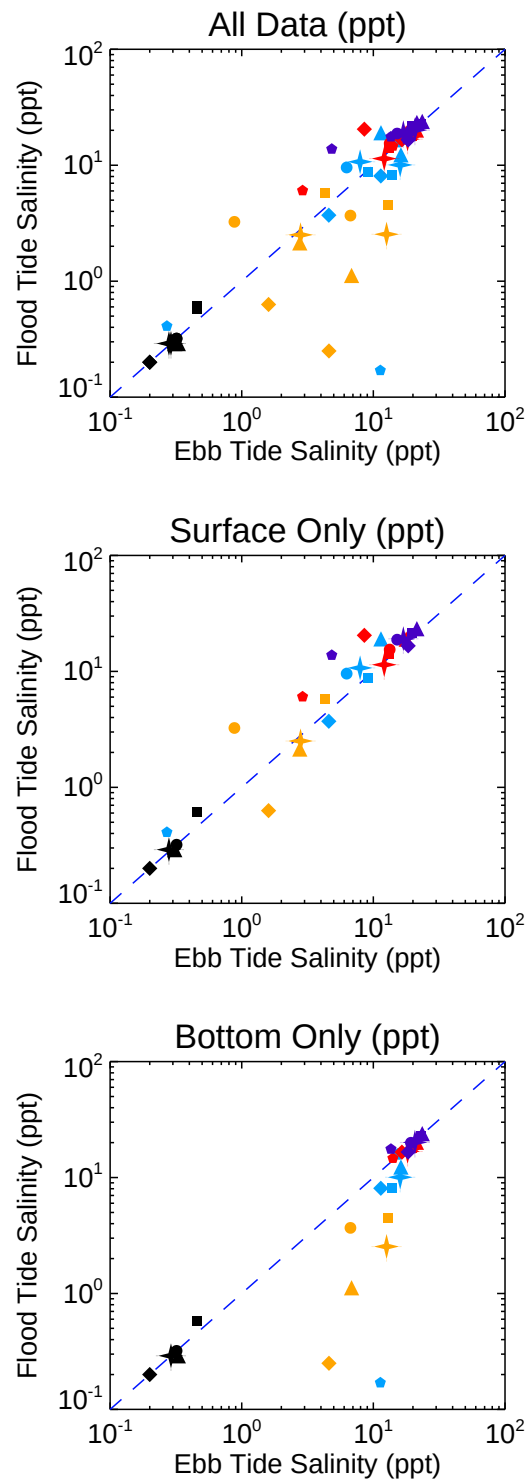
■ December 2012

◆ June 2012*

Figure 2-4g

Water Column TSS Concentrations at LPR Stations, Mid-Tide Comparison

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Database name : cwc_m_export_acc_easy_totals_10012018.

Stations included: T000, T014, T102, TTR1, TTR2.

Non-detects replaced with 1/2 reported detection limit.

NDs plotted with open symbols if either sample is ND. Duplicates averaged.

Moderate flow events are marked with an asterisks.

● T102 - River Mile 10.2

● T014 - River Mile 1.40

● TTR1 - Tidal Station 1

● T000 - River Mile 0

● TTR2 - Tidal Station 2

● August 2011*

◆ February 2012

● March 2012

▲ August 2012

■ December 2012

◆ June 2012*

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Figure 2-4h

Water Column Salinity Concentrations at LPR Stations, Mid-Tide Comparison

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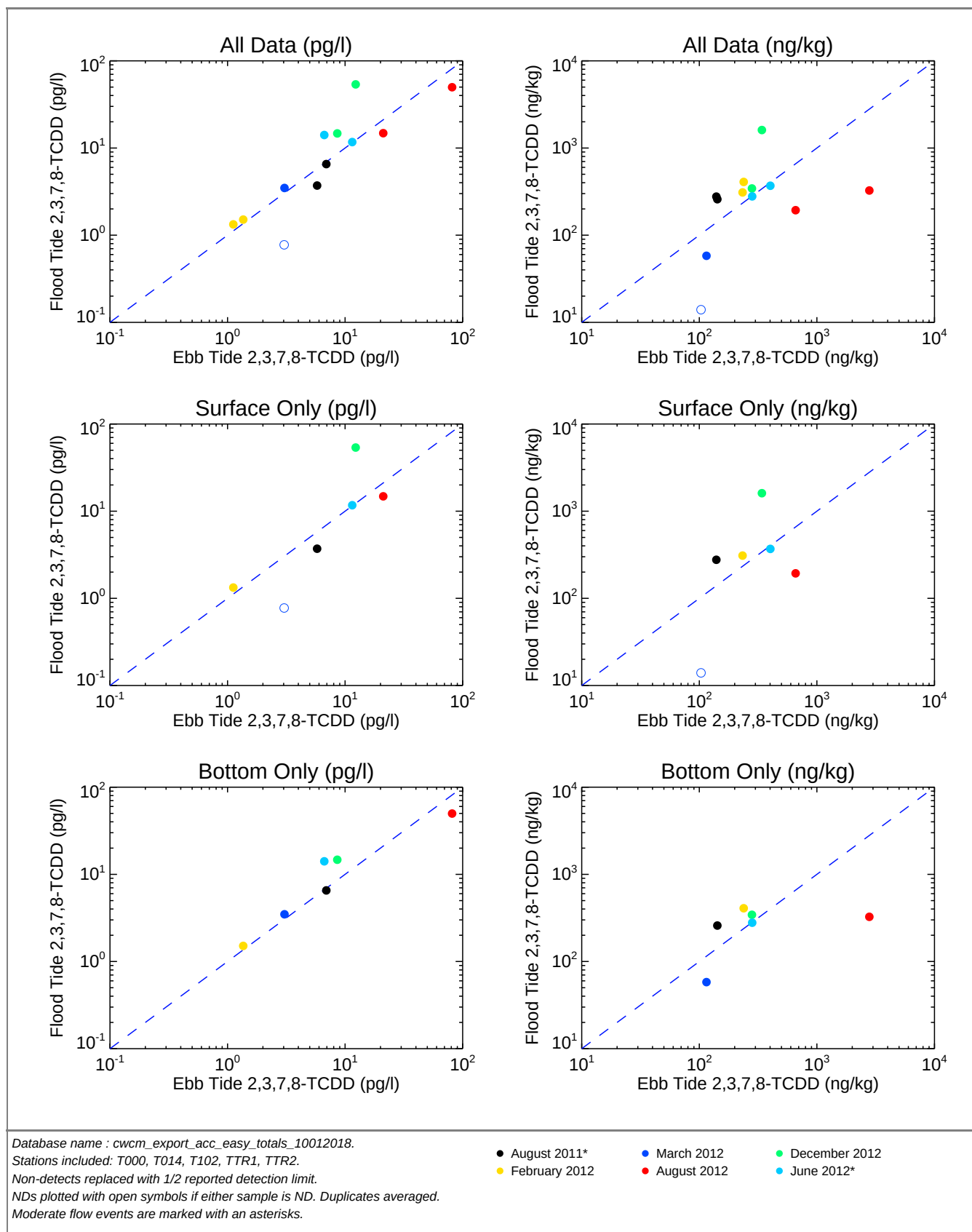


Figure 2-5a

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Station: T102**

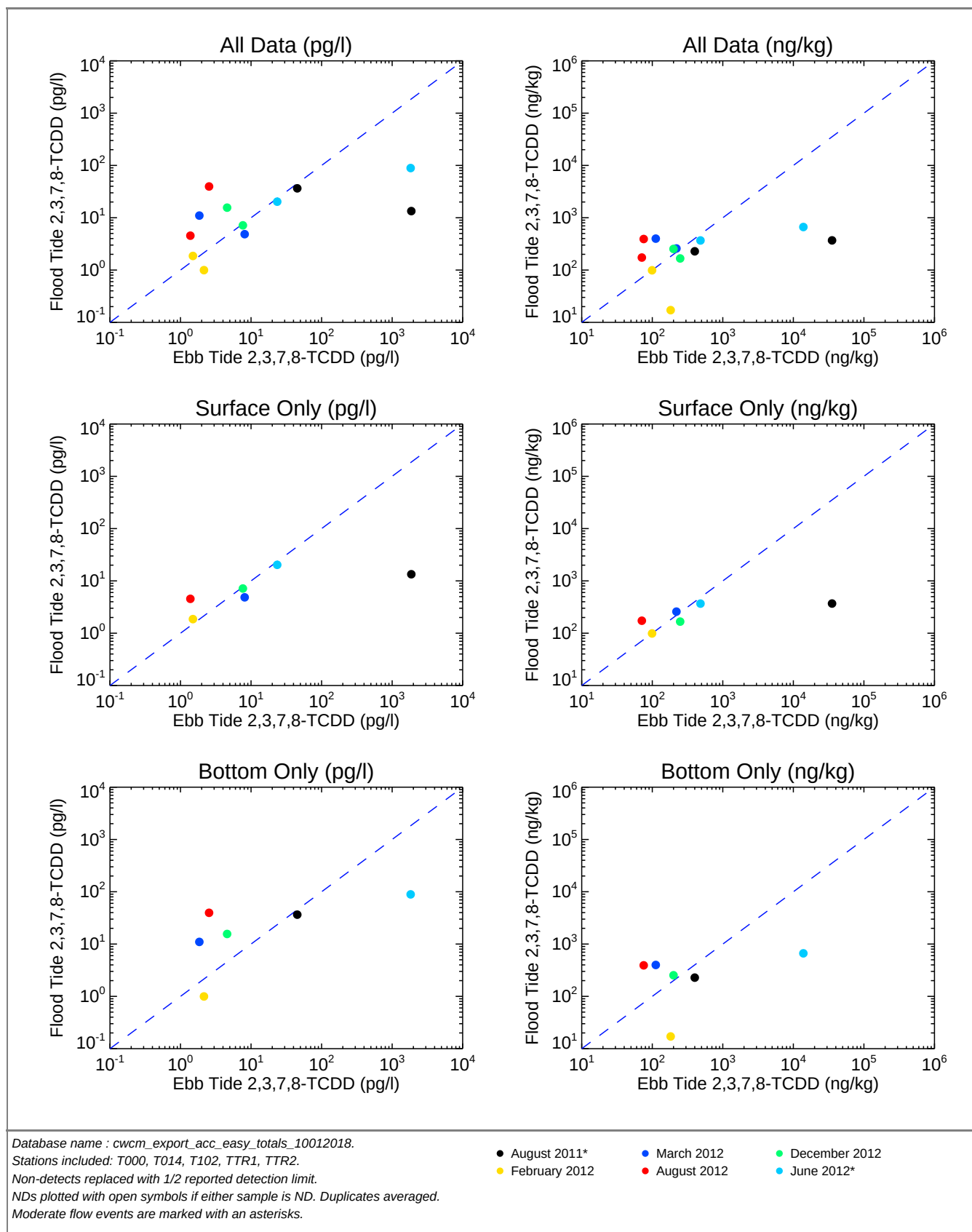


Figure 2-5b

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Station: TTR1**

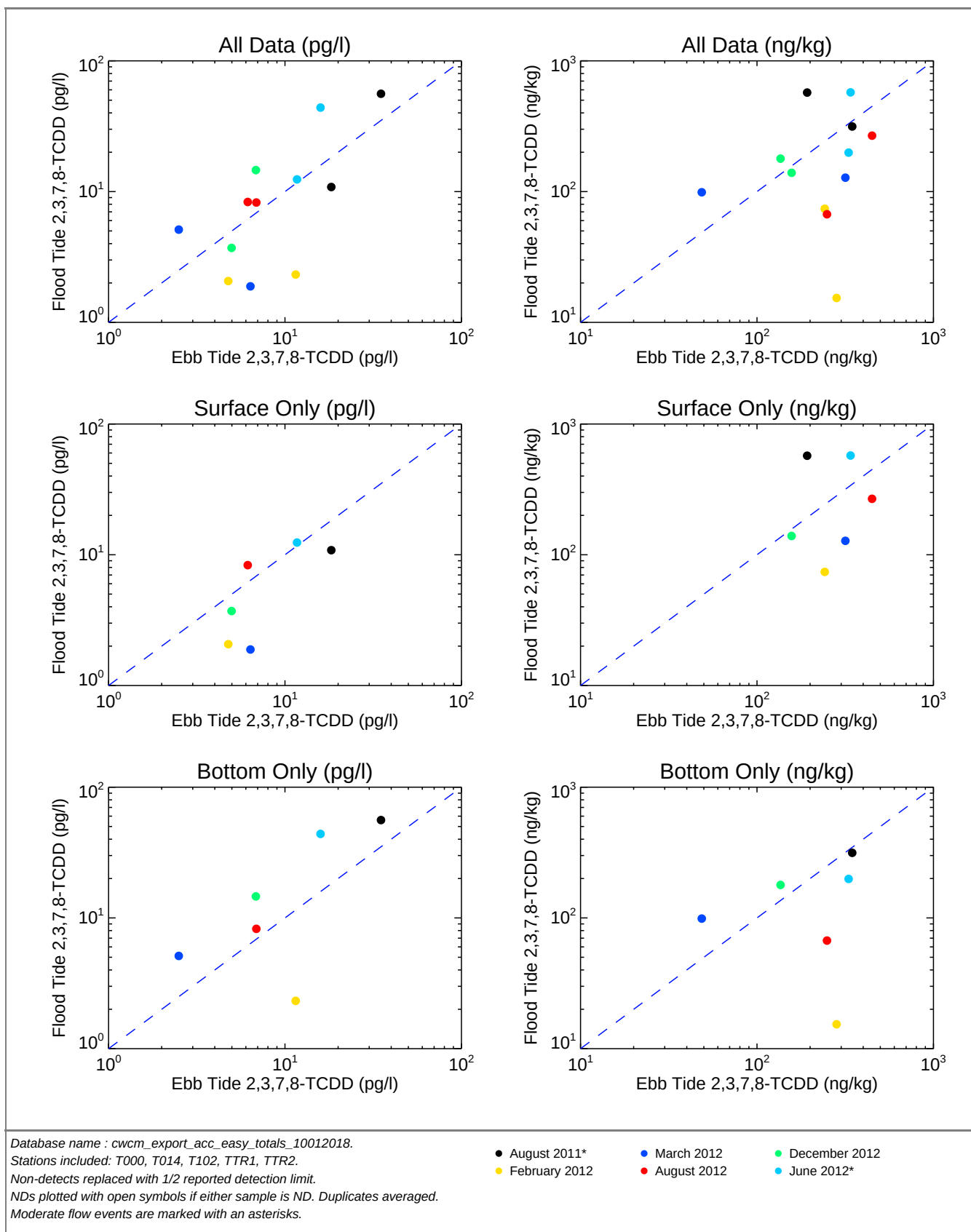


Figure 2-5c

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison by Station: TTR2

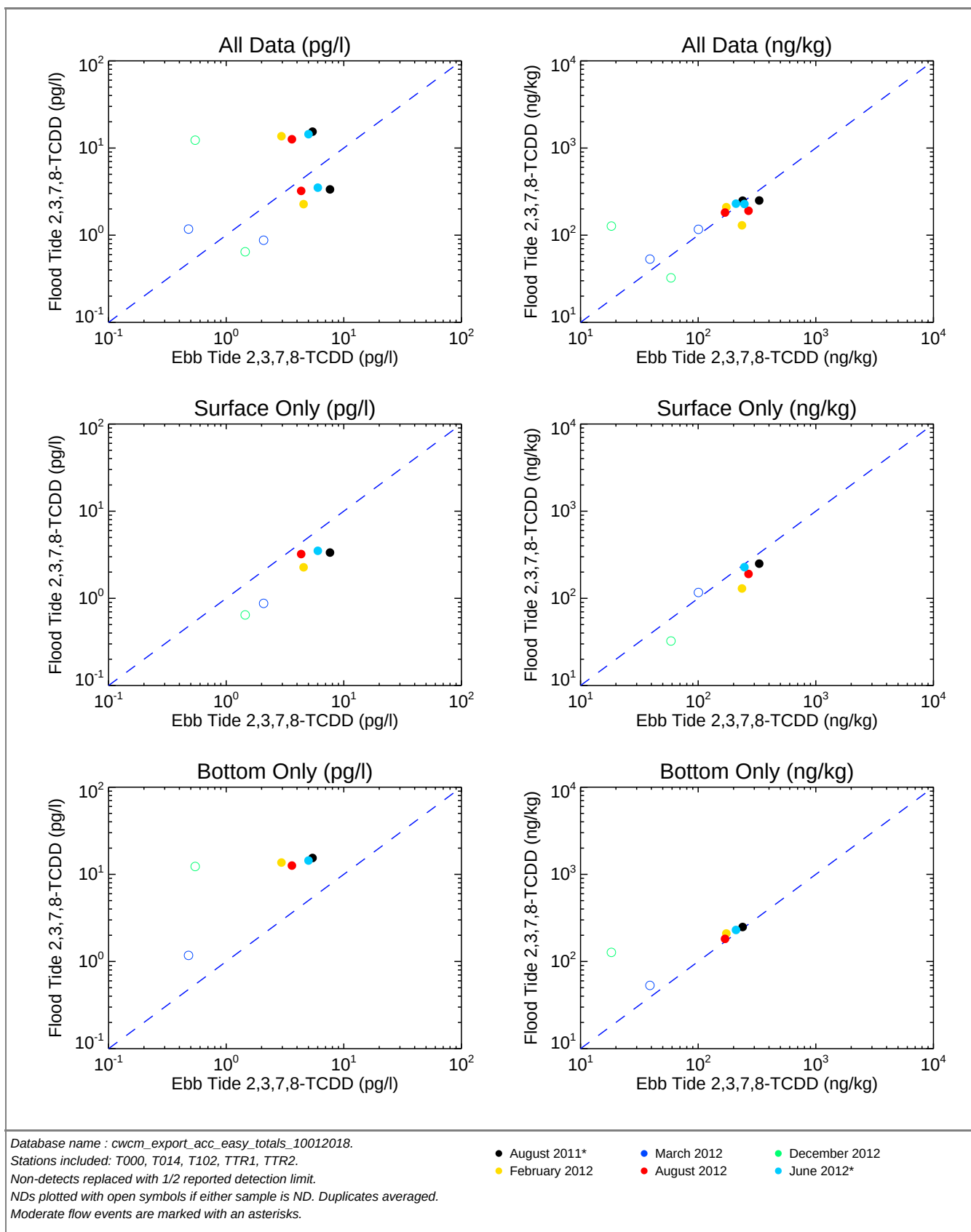


Figure 2-5d

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Station: T014**

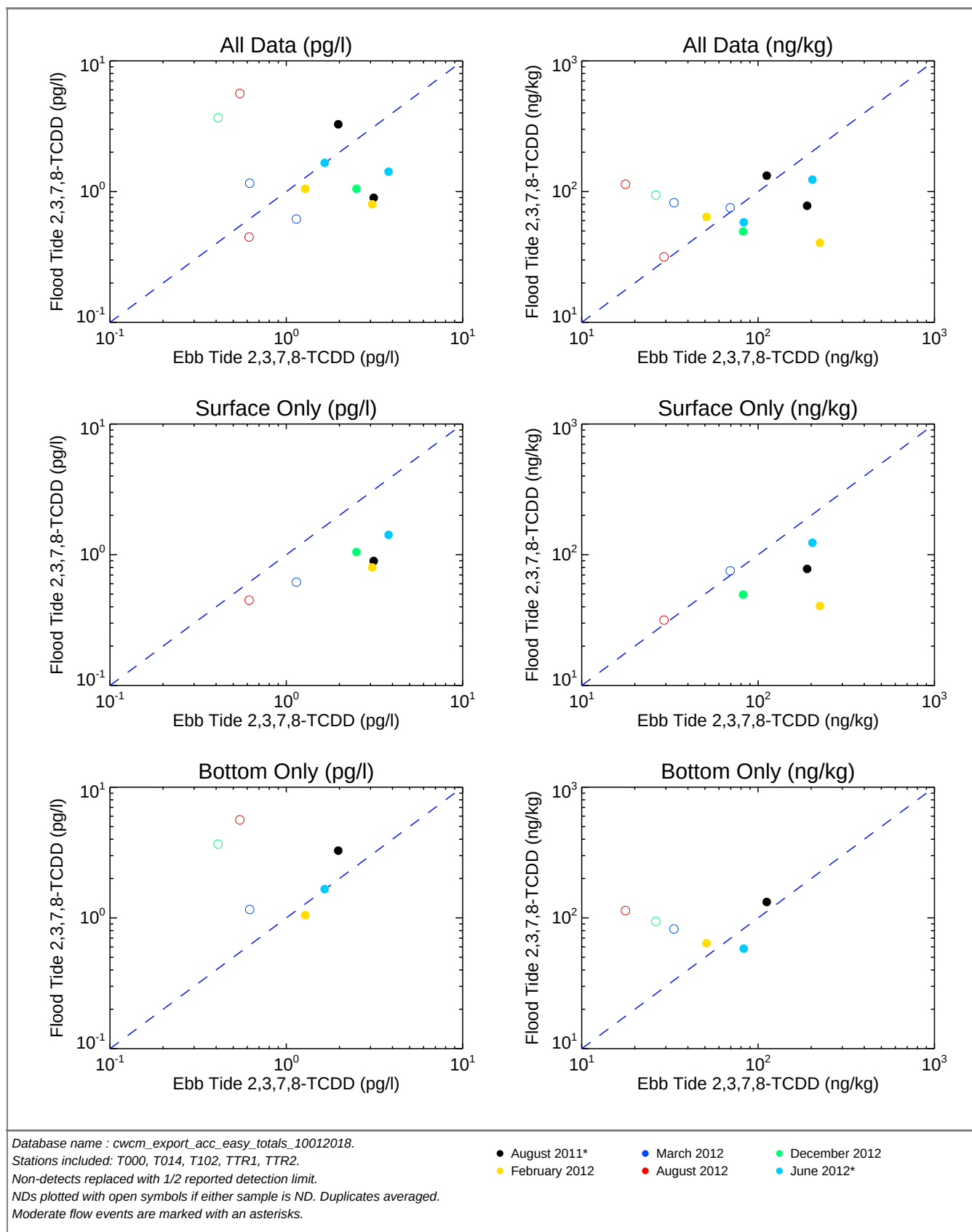


Figure 2-5e

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Station: T000**

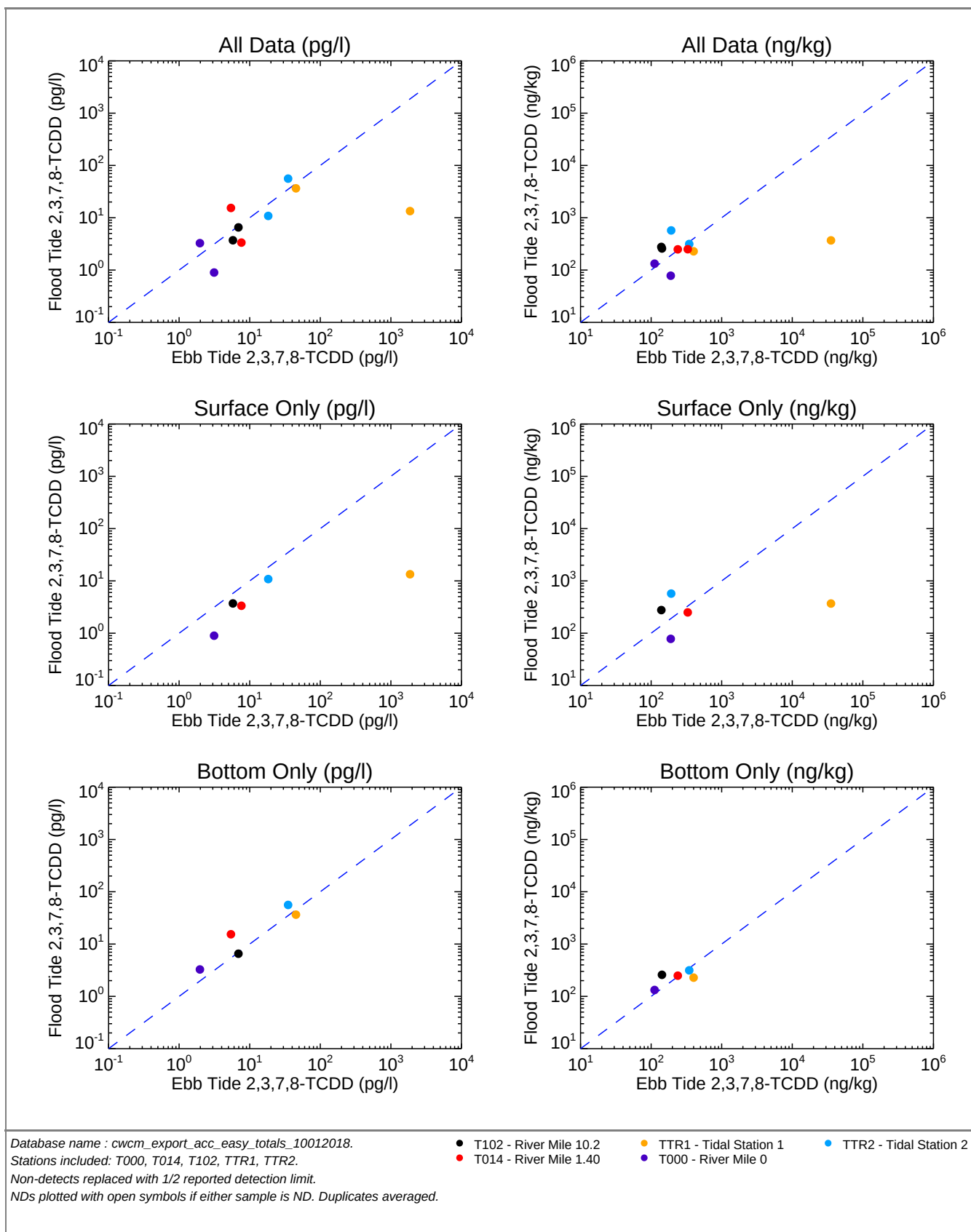


Figure 2-6a

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: August 2011 (Moderate Flow)**

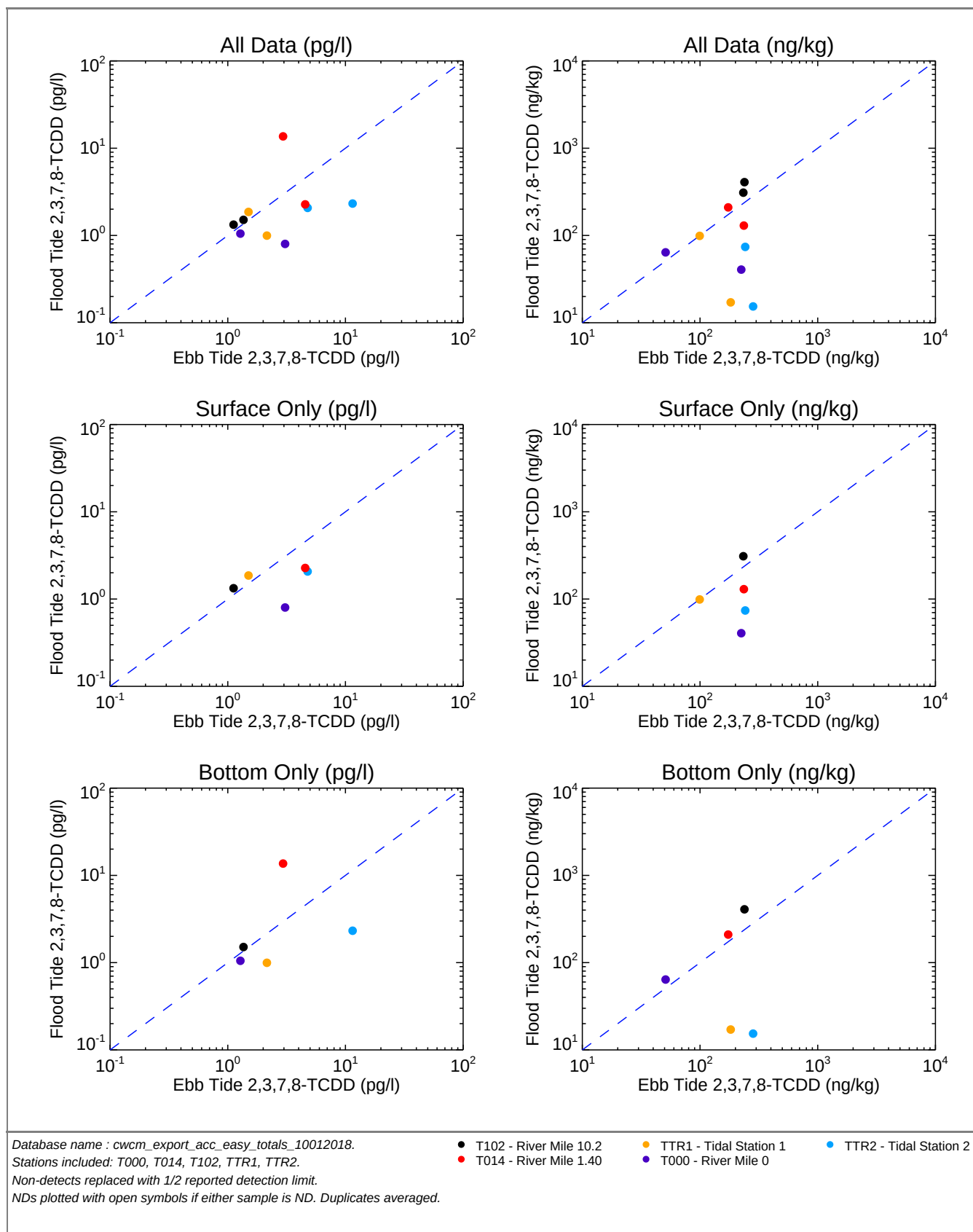


Figure 2-6b

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: February 2012 (Low Flow)**

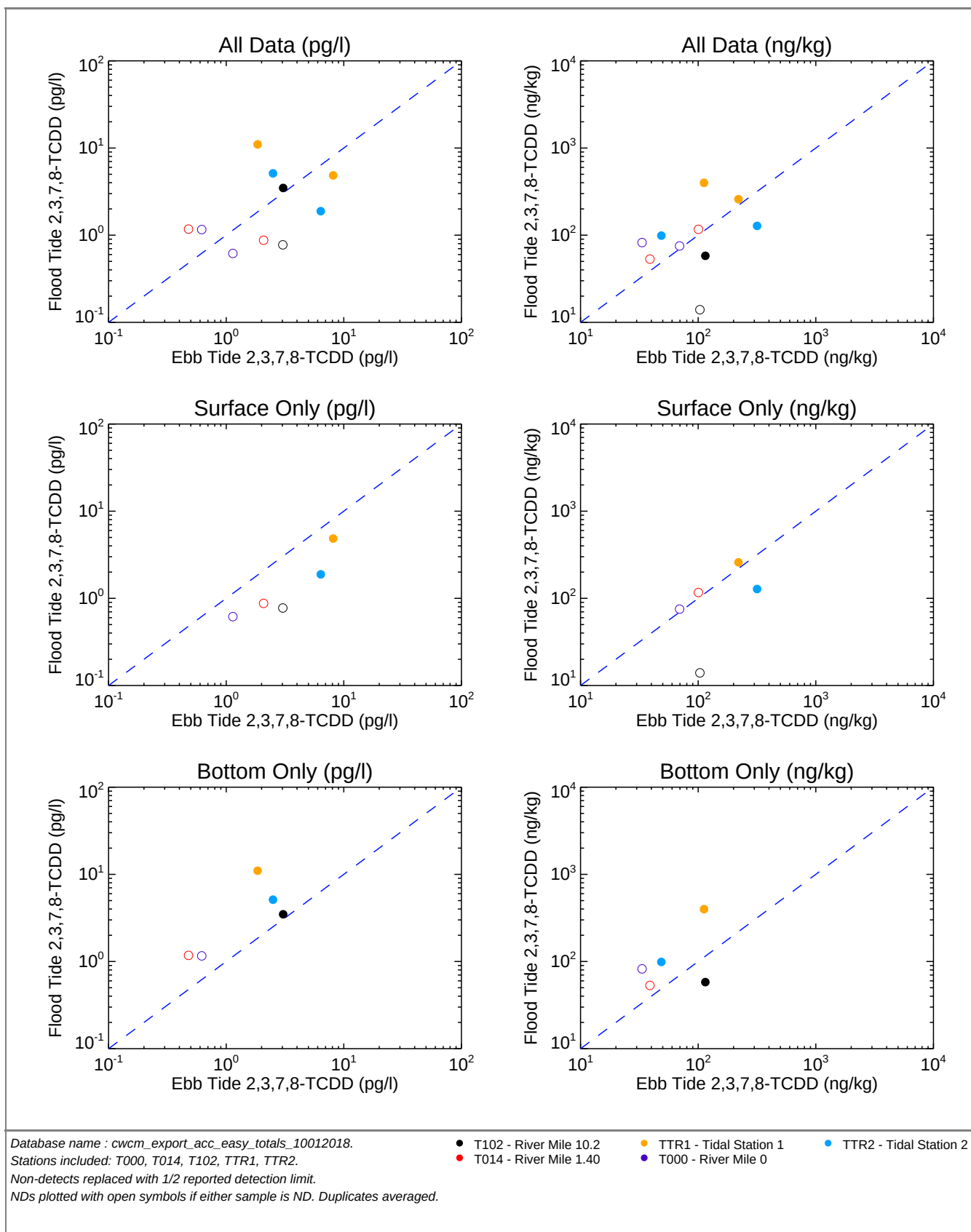


Figure 2-6c

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: March 2012 (Low Flow)**

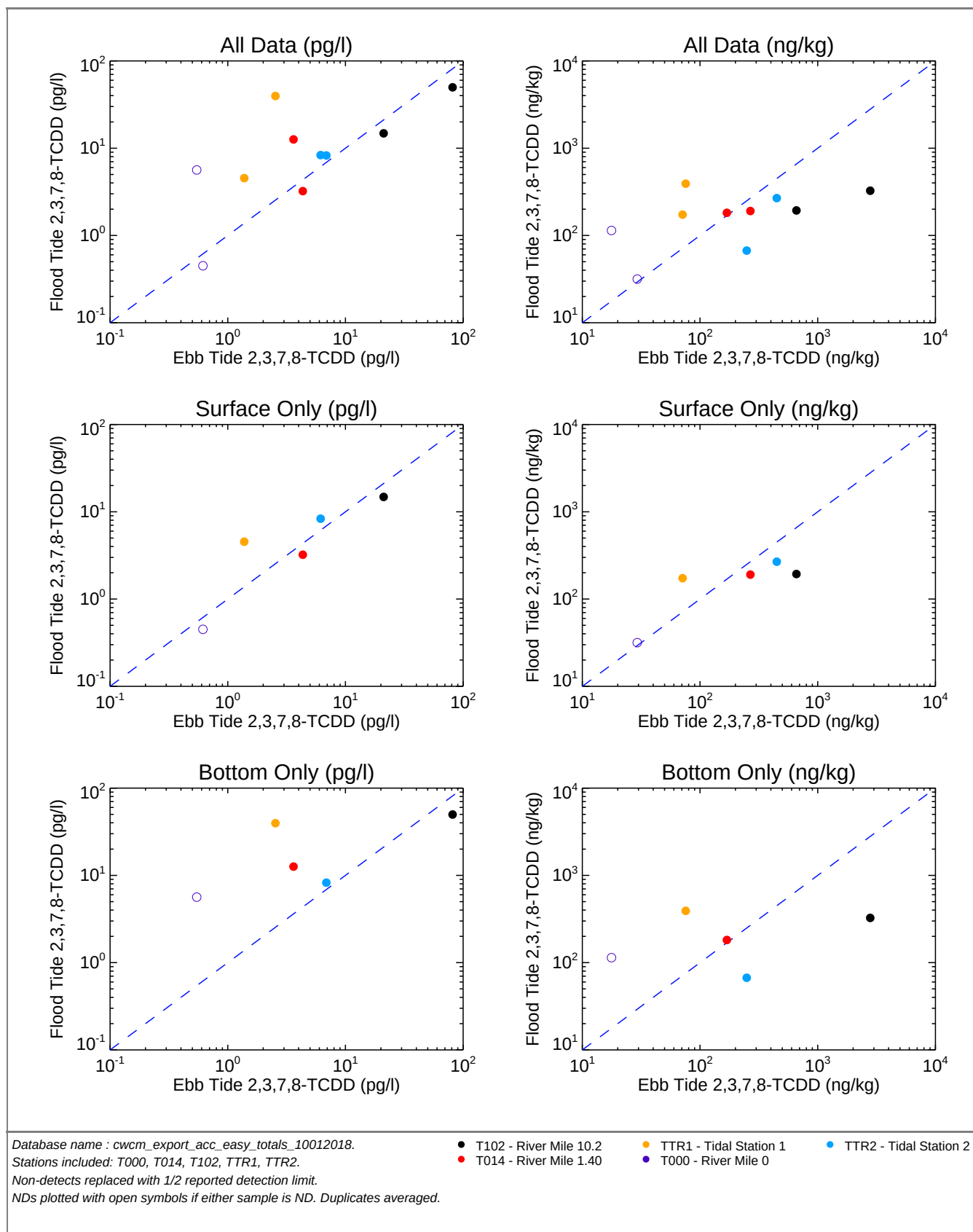


Figure 2-6d

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: August 2012 (Low Flow)**

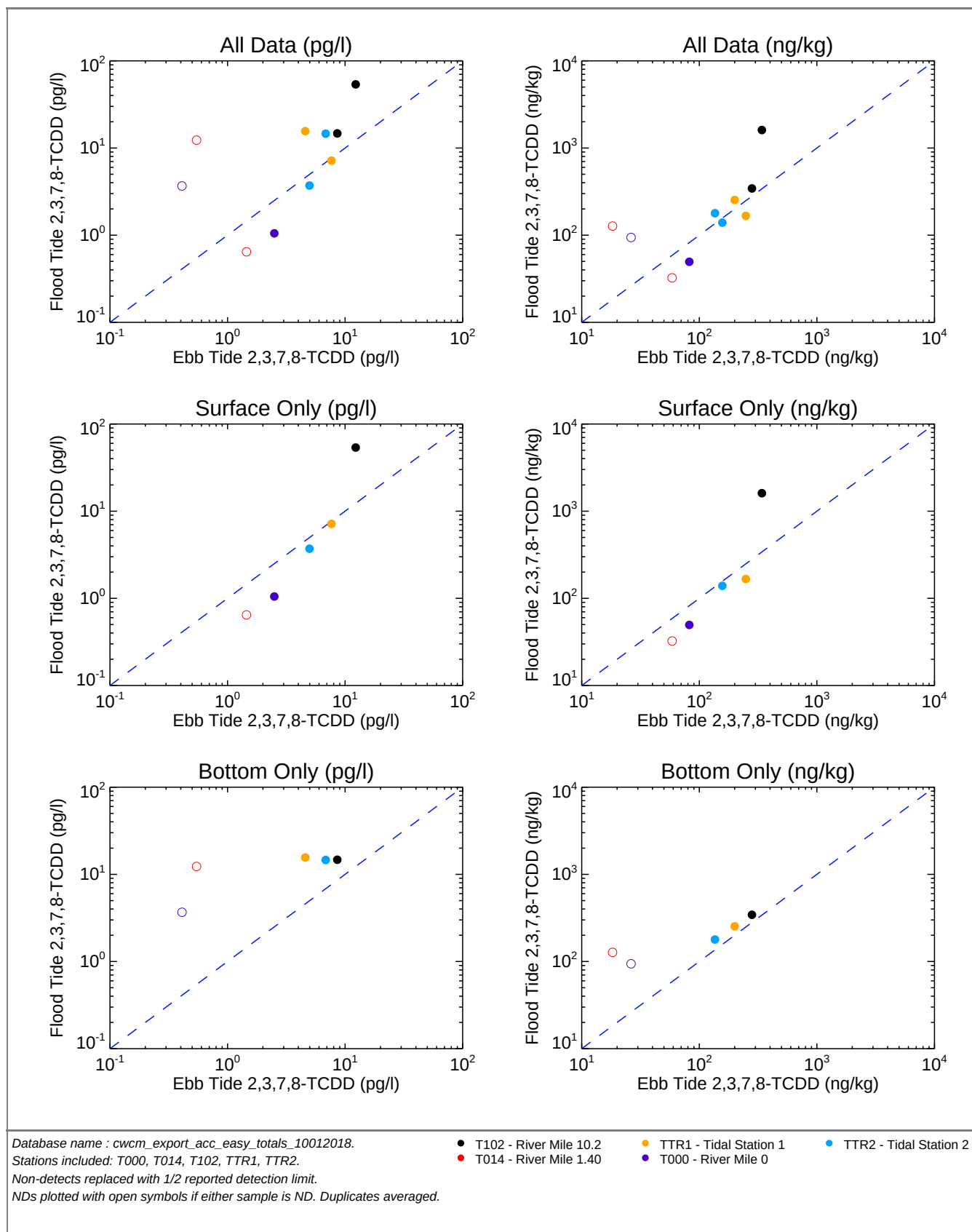


Figure 2-6e

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: December 2012 (Low Flow)**

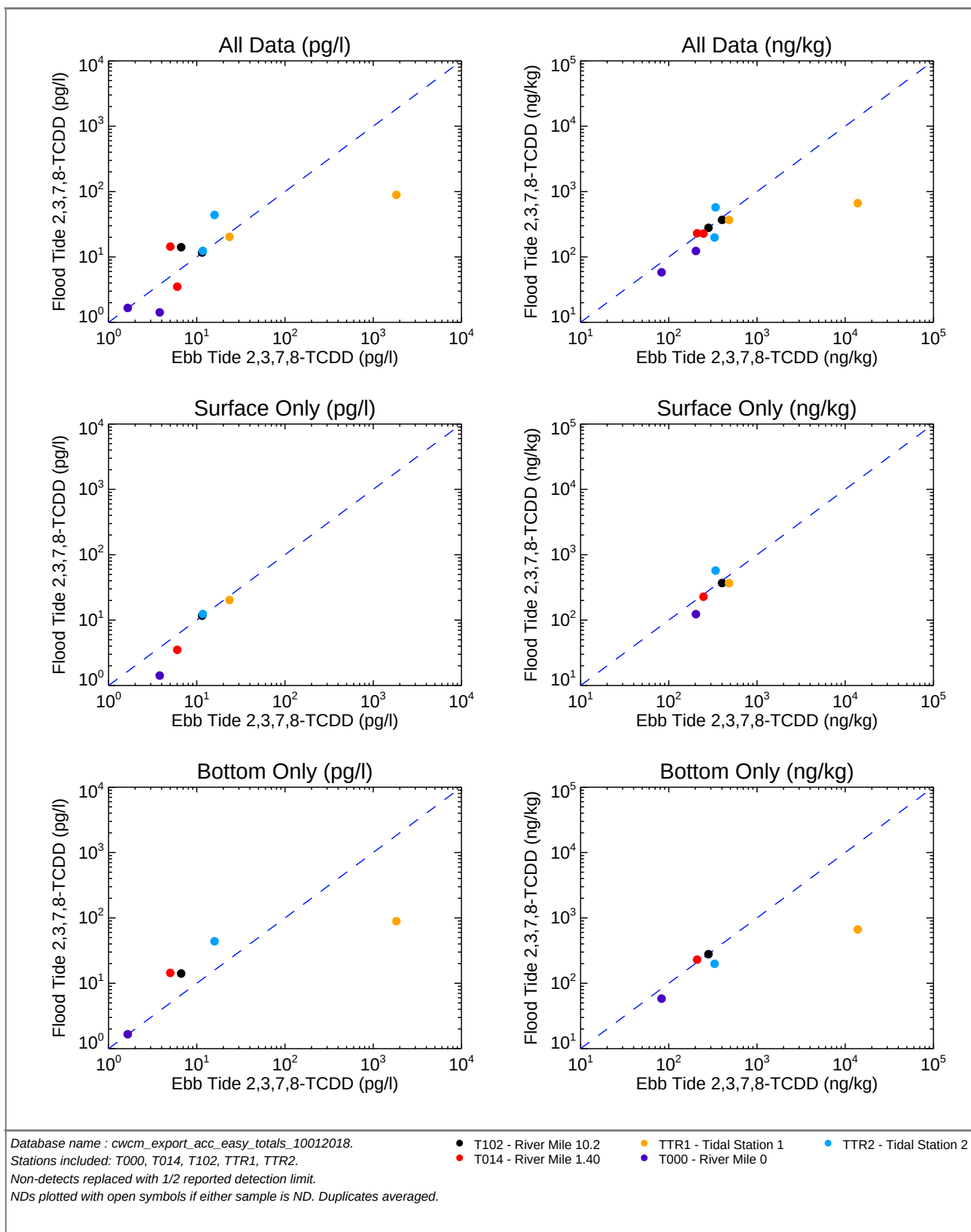


Figure 2-6f

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Mid-Tide Comparison
by Event: June 2012 (Moderate Flow)**

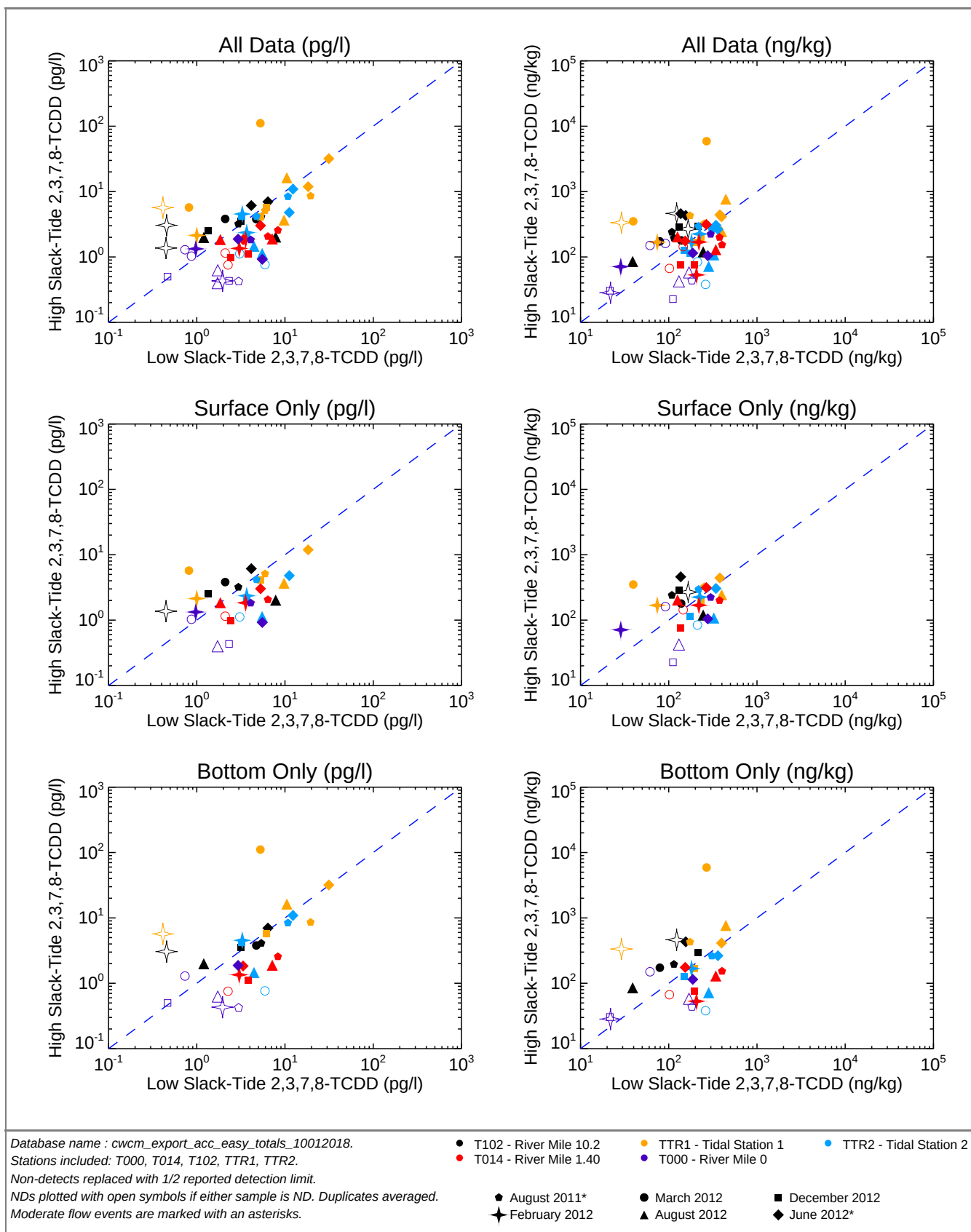


Figure 2-7a

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison

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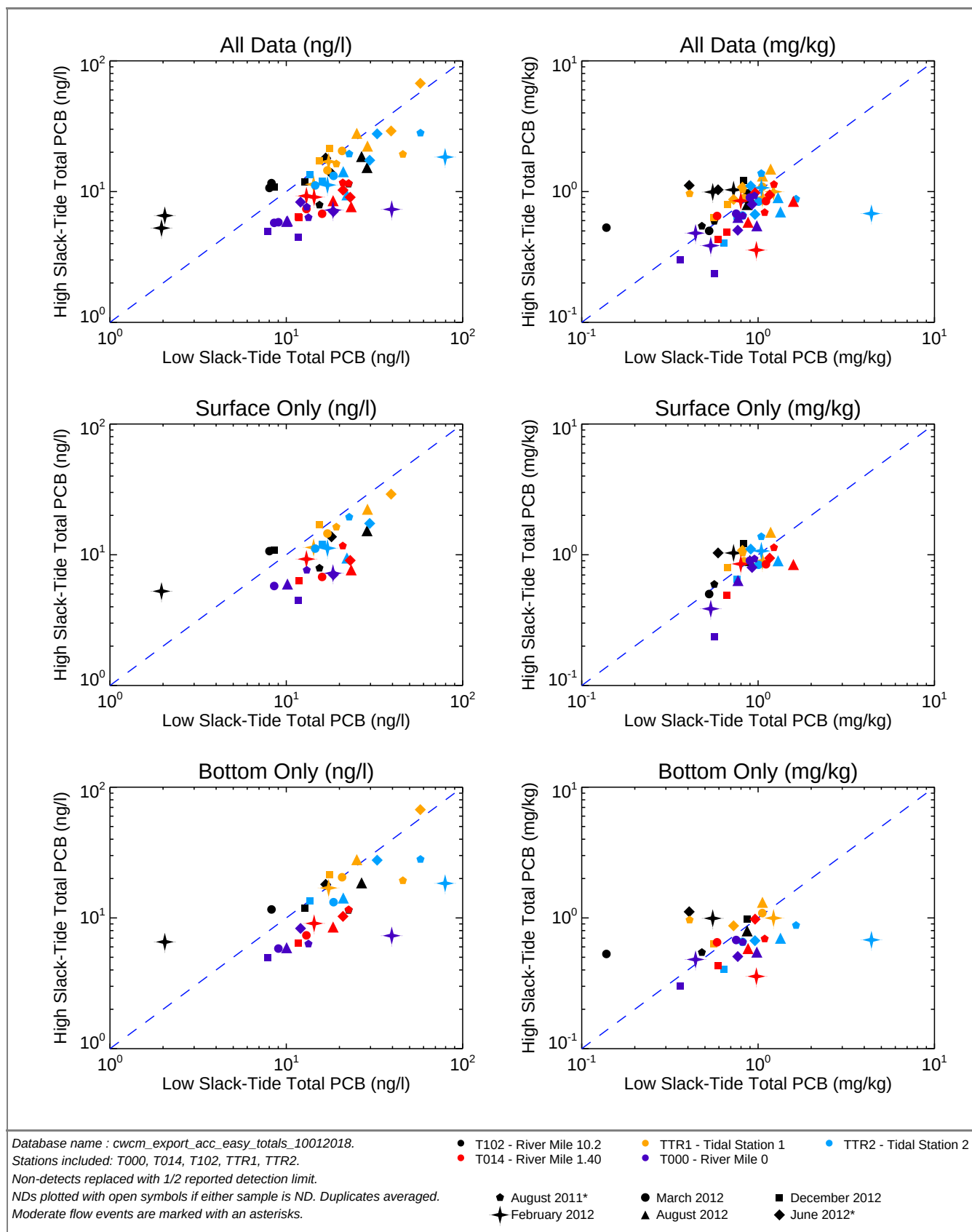


Figure 2-7b

Water Column Total PCB Concentrations at LPR Stations, Slack-Tide Comparison

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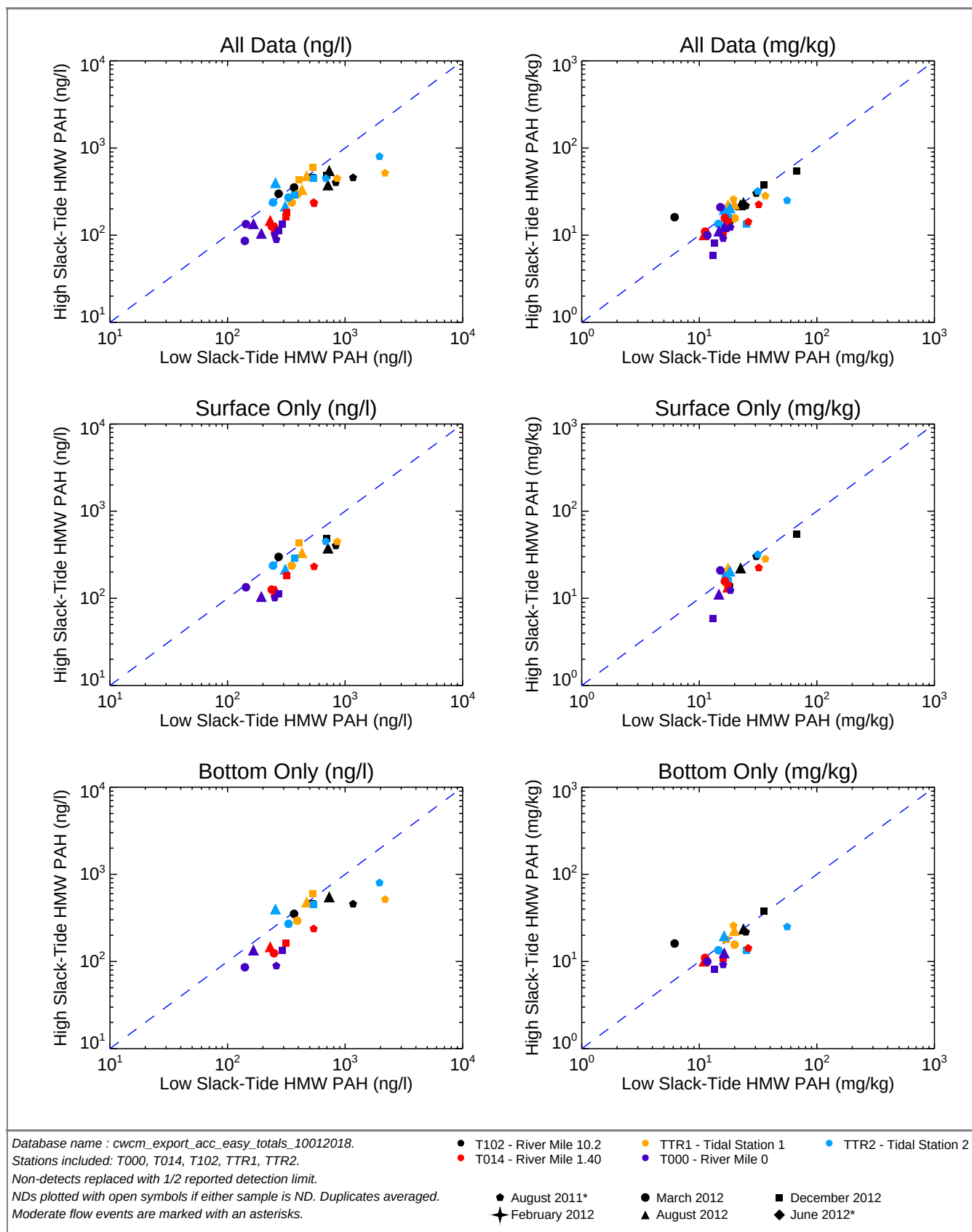


Figure 2-7c

Water Column HMW PAH Concentrations at LPR Stations, Slack-Tide Comparison

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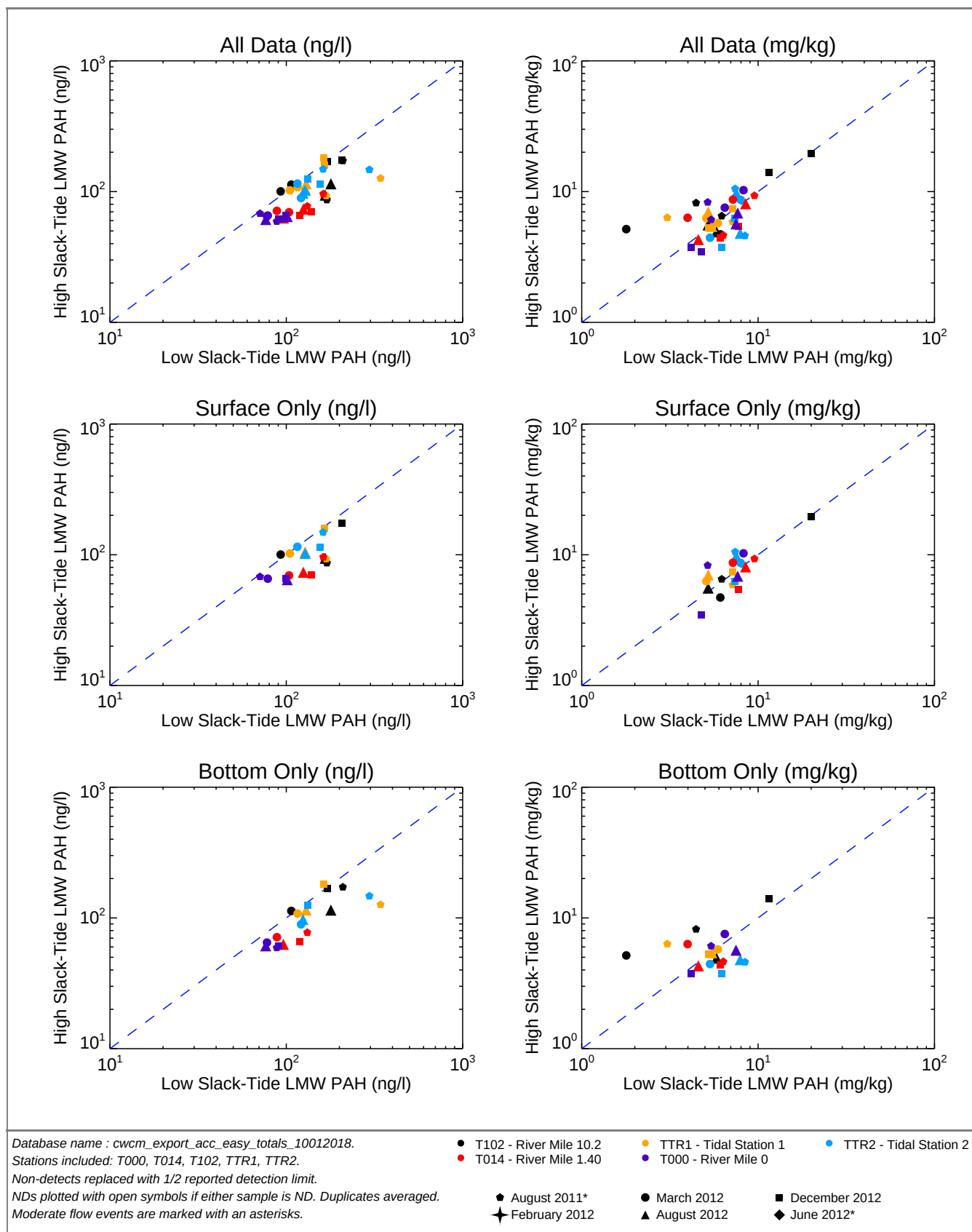


Figure 2-7d

Water Column LMW PAH Concentrations at LPR Stations, Slack-Tide Comparison

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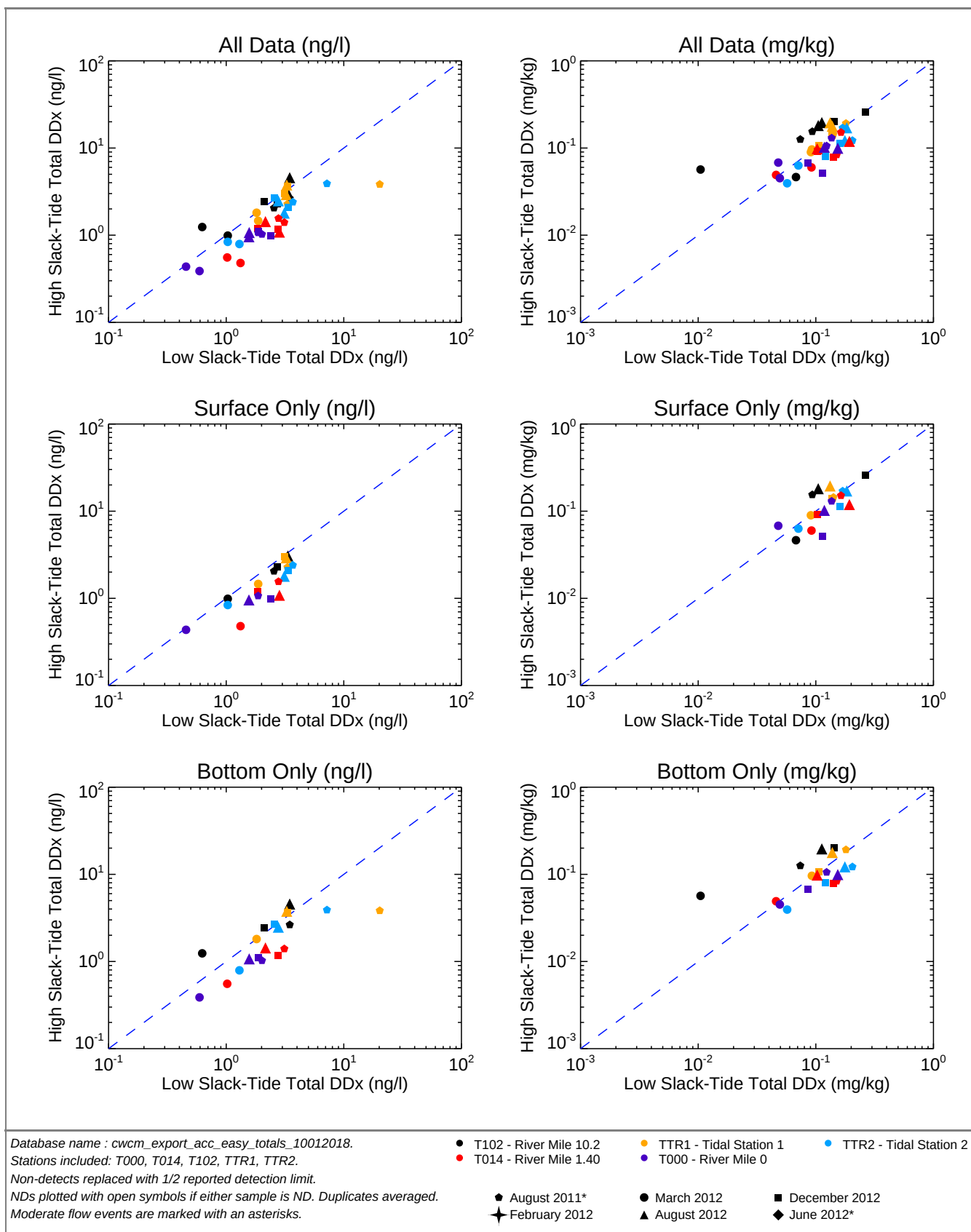


Figure 2-7e

Water Column Total DDx Concentrations at LPR Stations, Slack-Tide Comparison

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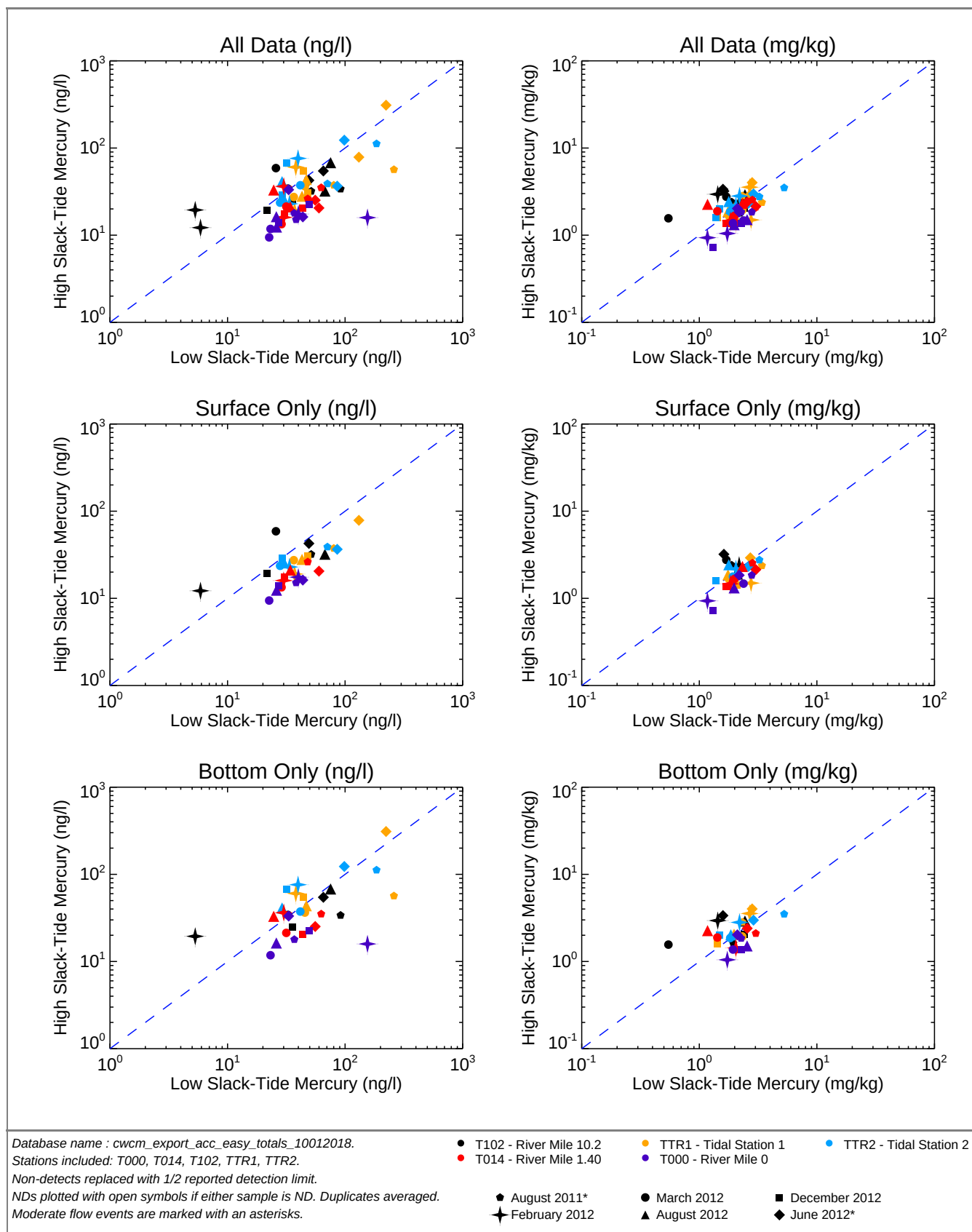
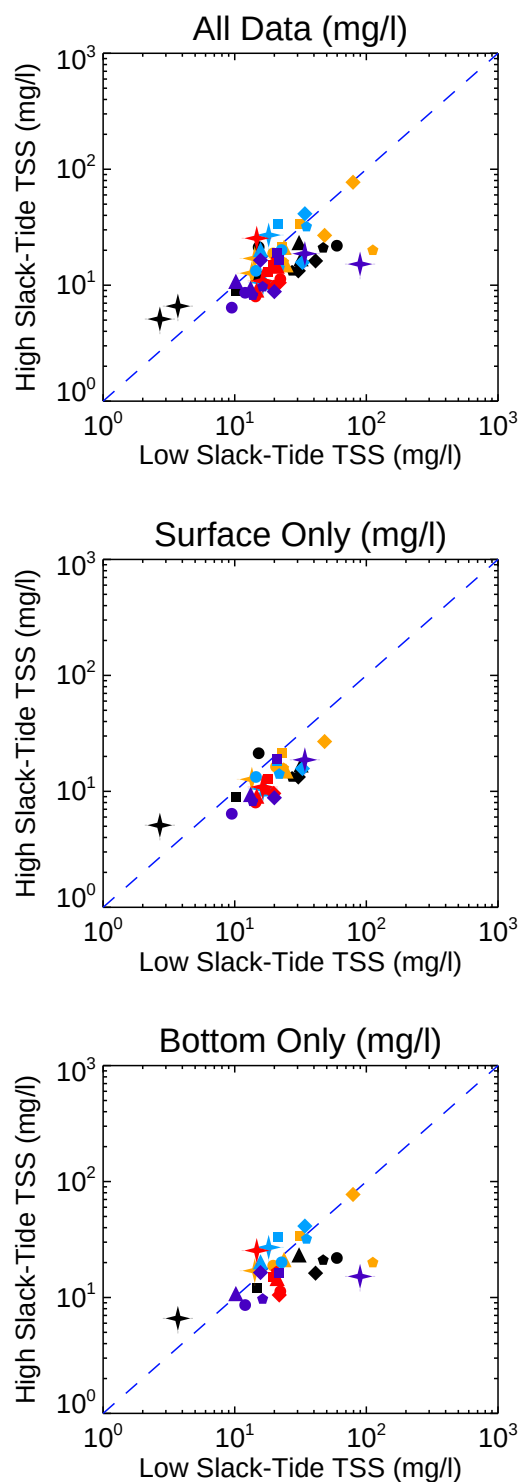


Figure 2-7f

Water Column Mercury Concentrations at LPR Stations, Slack-Tide Comparison

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Database name : cwc_m_export_acc_easy_totals_10012018.

Stations included: T000, T014, T102, TTR1, TTR2.

Non-detects replaced with 1/2 reported detection limit.

NDs plotted with open symbols if either sample is ND. Duplicates averaged.

Moderate flow events are marked with an asterisks.

● T102 - River Mile 10.2

● T014 - River Mile 1.40

● TTR1 - Tidal Station 1

● T000 - River Mile 0

● TTR2 - Tidal Station 2

★ August 2011*

★ February 2012

● March 2012

▲ August 2012

■ December 2012

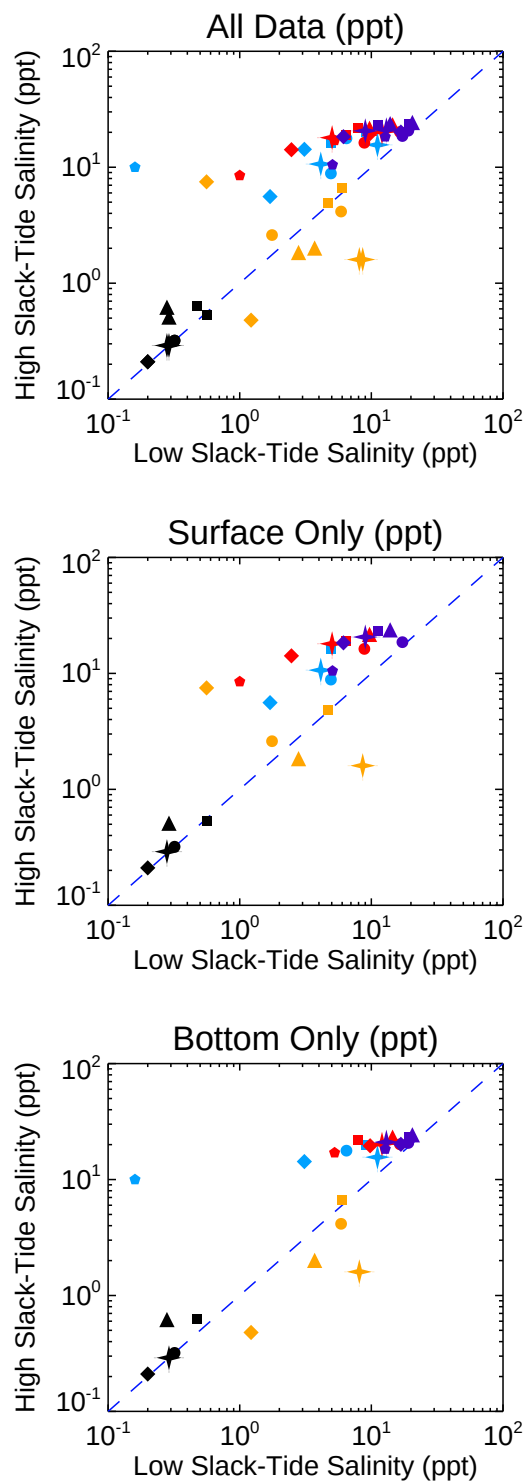
◆ June 2012*

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Figure 2-7g
Water Column TSS Concentrations at LPR Stations, Slack-Tide Comparison

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Database name : cwc_m_export_acc_easy_totals_10012018.

Stations included: T000, T014, T102, TTR1, TTR2.

Non-detects replaced with 1/2 reported detection limit.

NDs plotted with open symbols if either sample is ND. Duplicates averaged.

Moderate flow events are marked with an asterisks.

● T102 - River Mile 10.2

● T014 - River Mile 1.40

● TTR1 - Tidal Station 1

● T000 - River Mile 0

● TTR2 - Tidal Station 2

● August 2011*

★ February 2012

● March 2012

▲ August 2012

■ December 2012

◆ June 2012*

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Figure 2-7h

Water Column Salinity Concentrations at LPR Stations, Slack-Tide Comparison

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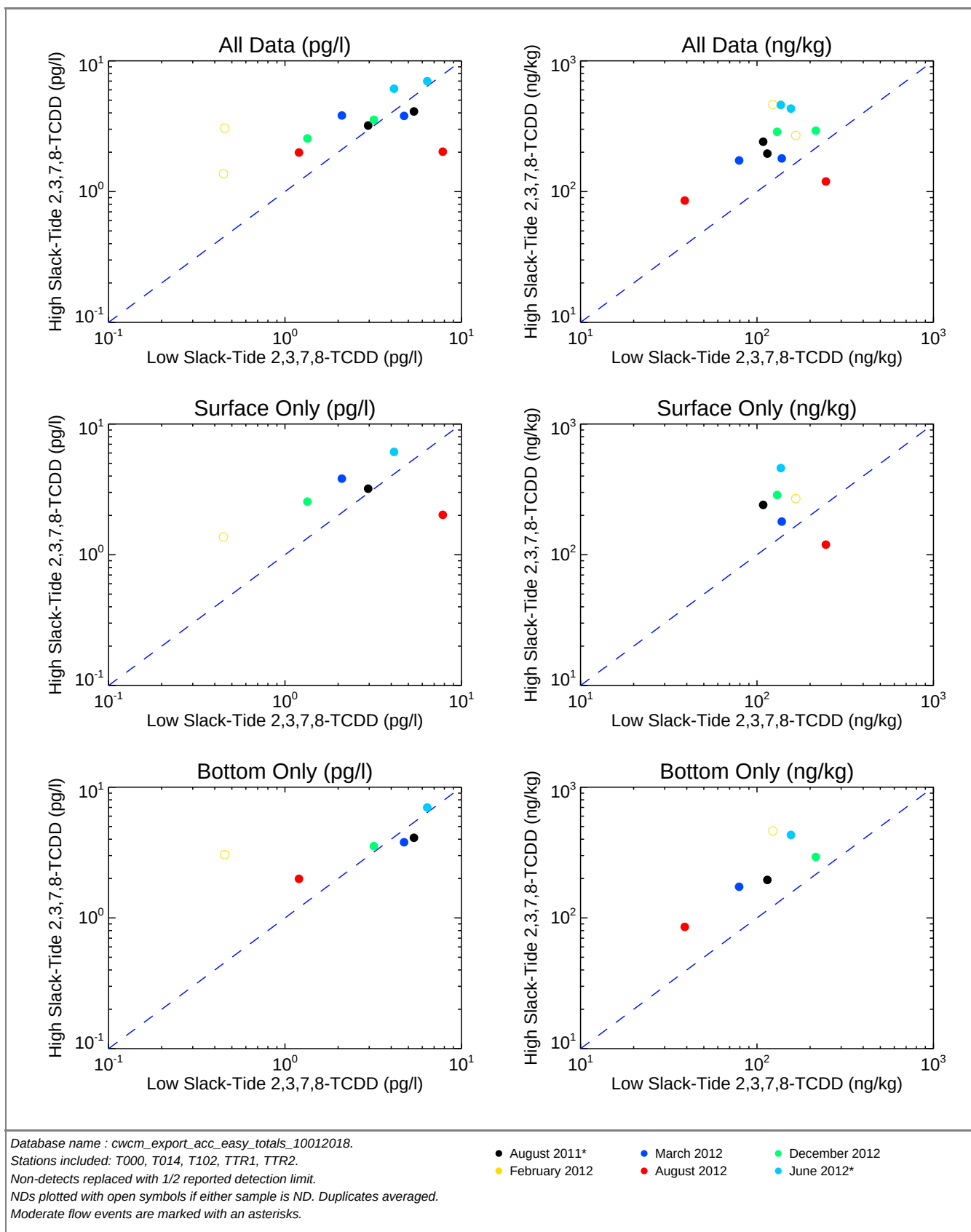


Figure 2-8a

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Station: T102

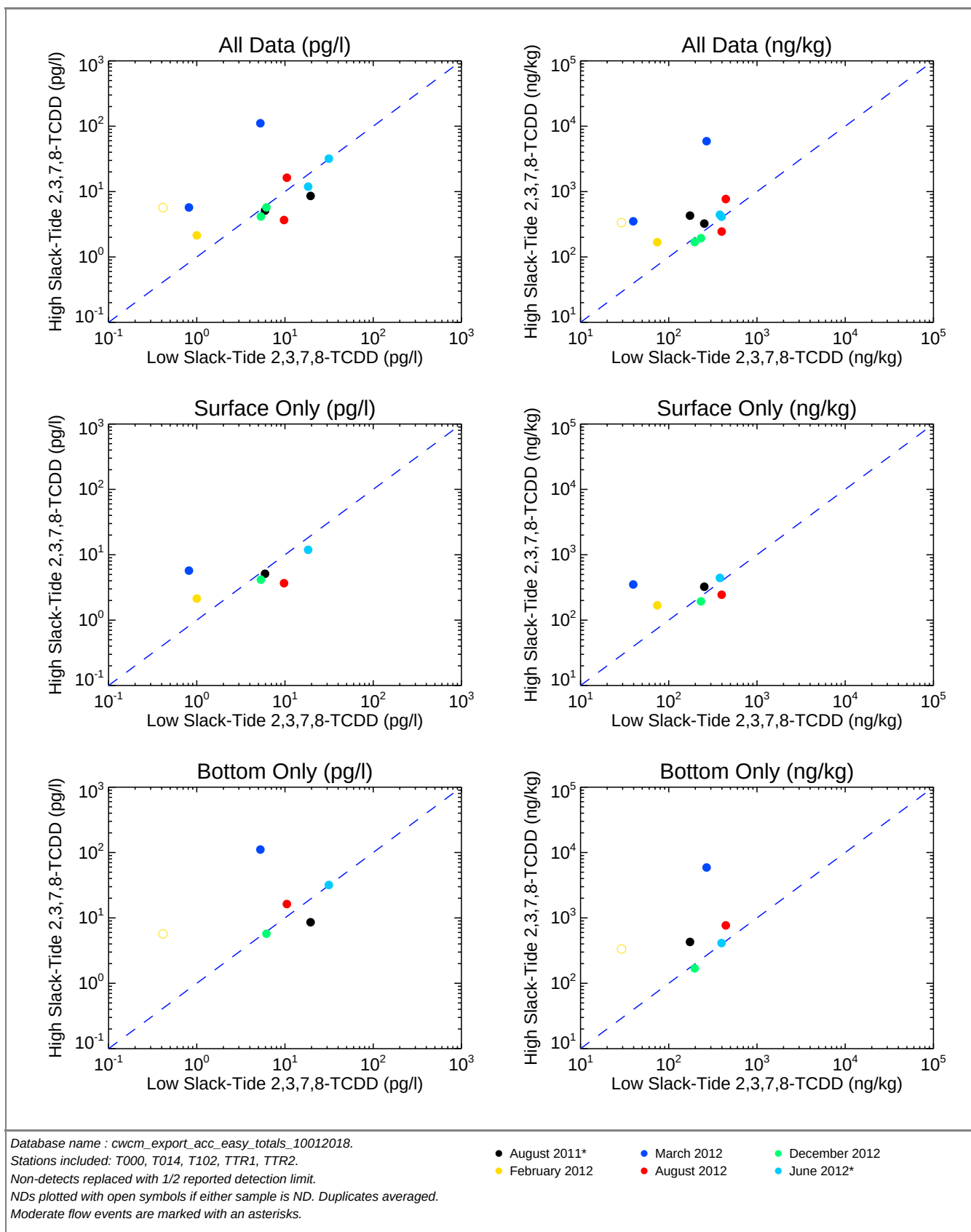


Figure 2-8b

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Station: TTR1

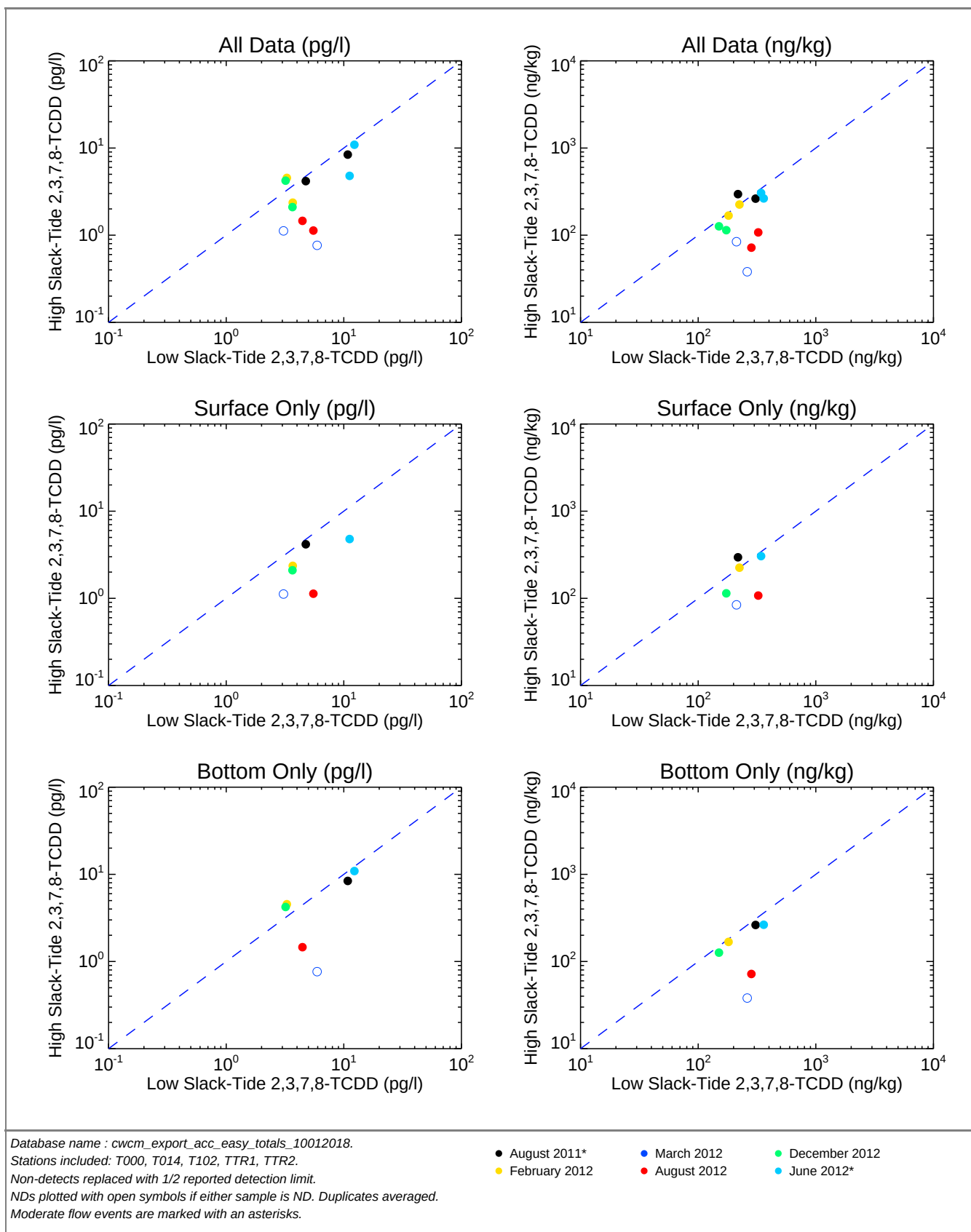


Figure 2-8c

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Station: TTR2

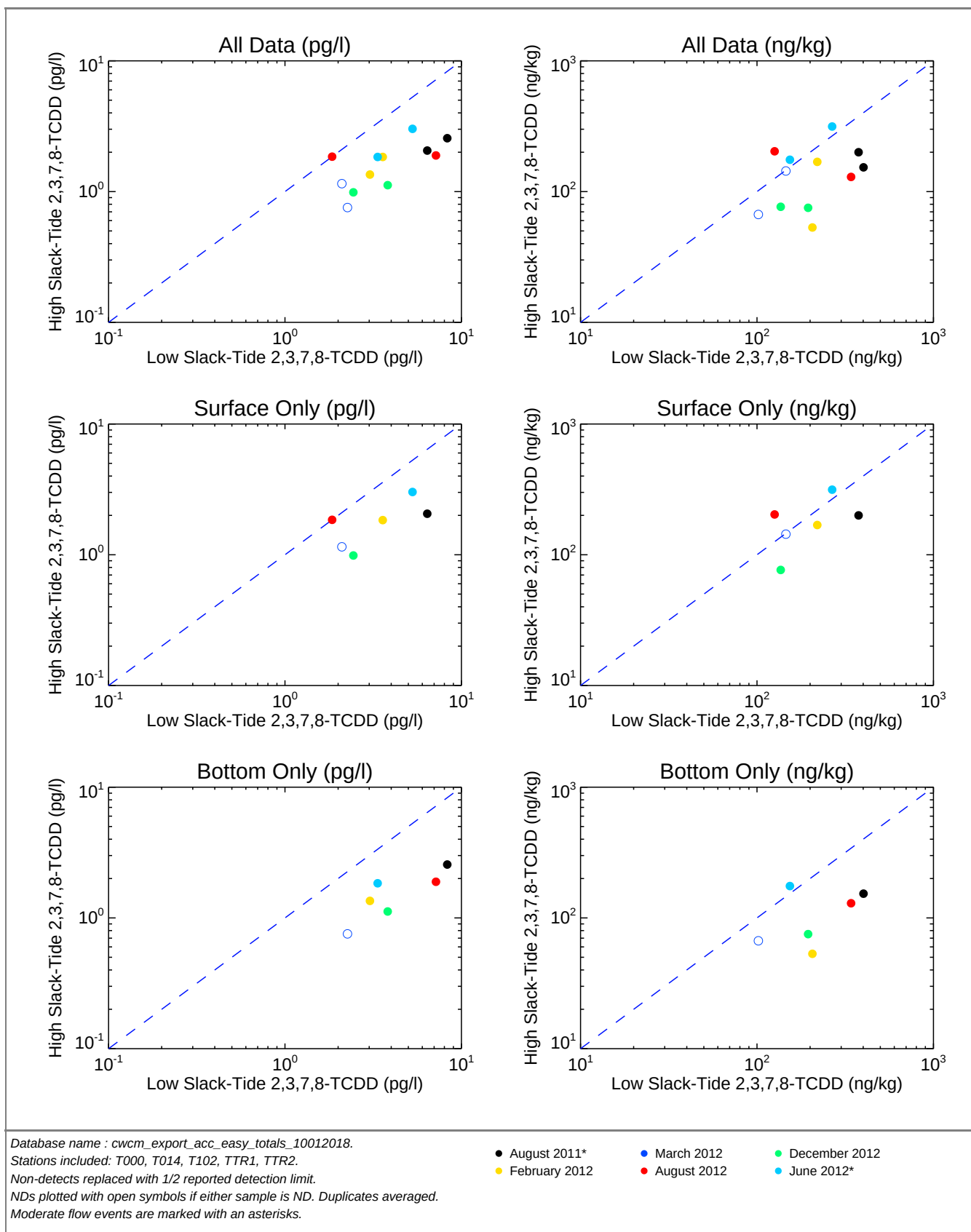


Figure 2-8d

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Station: T014

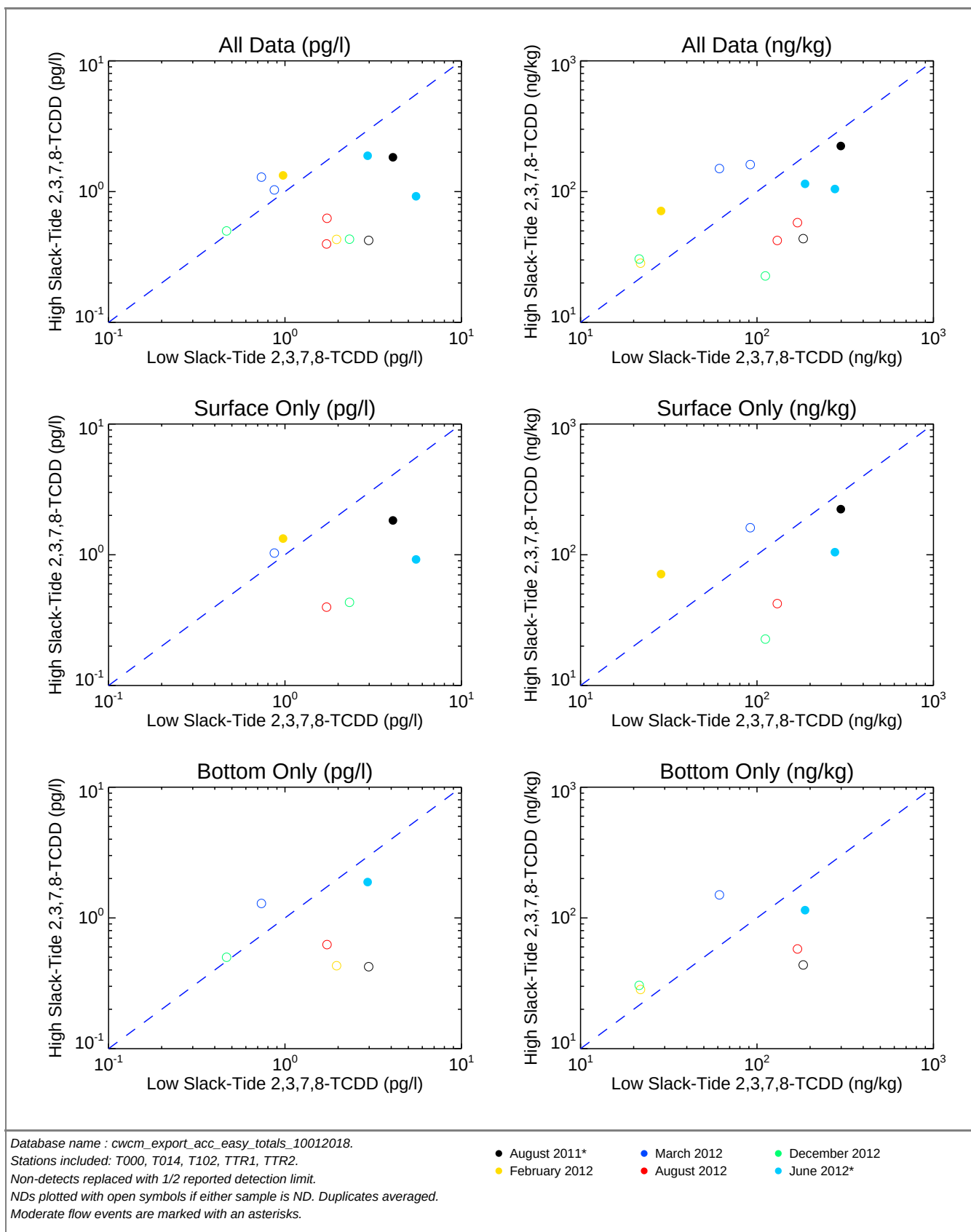


Figure 2-8e

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Station: T000

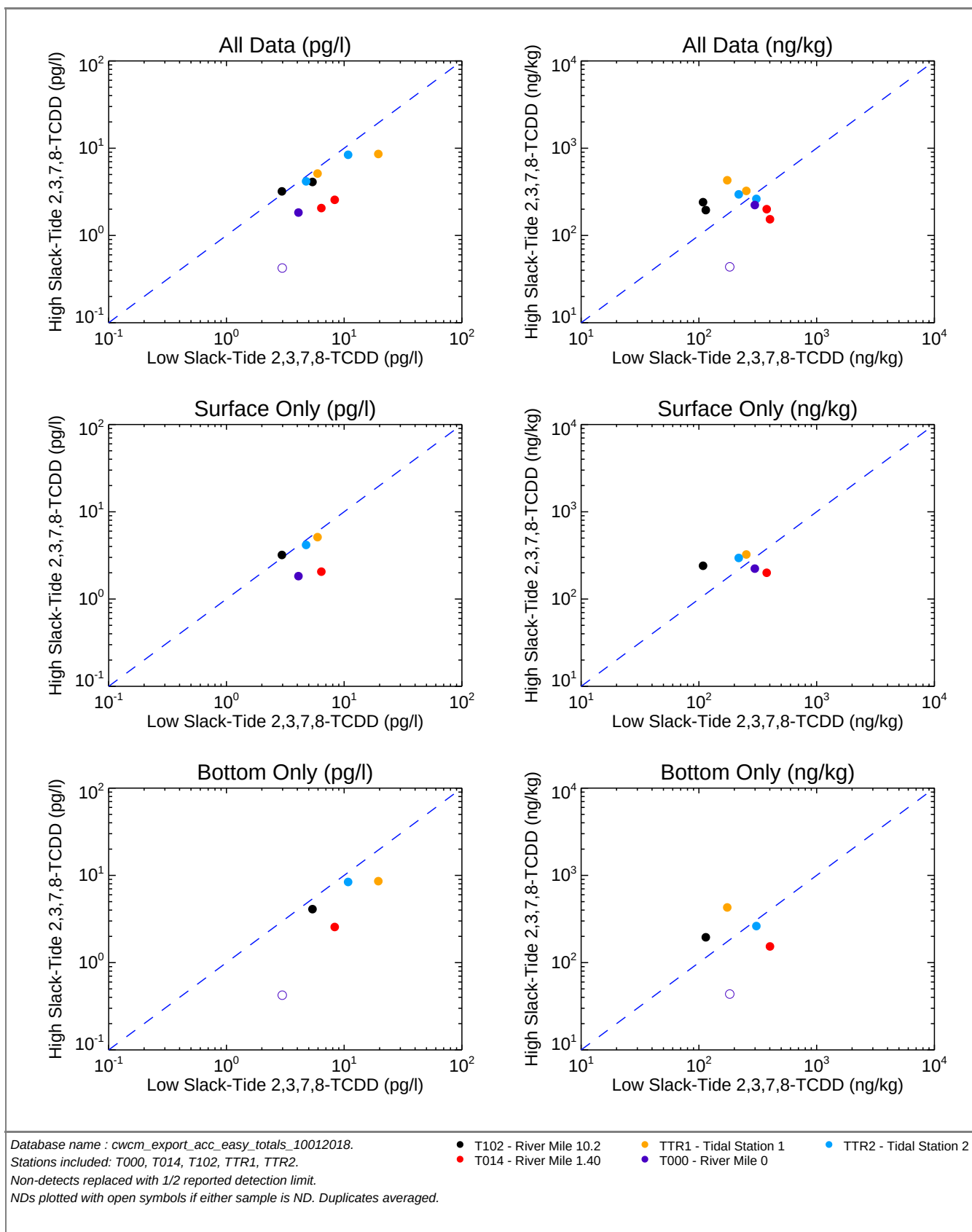


Figure 2-9a

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison
by Event: August 2011 (Moderate Flow)**

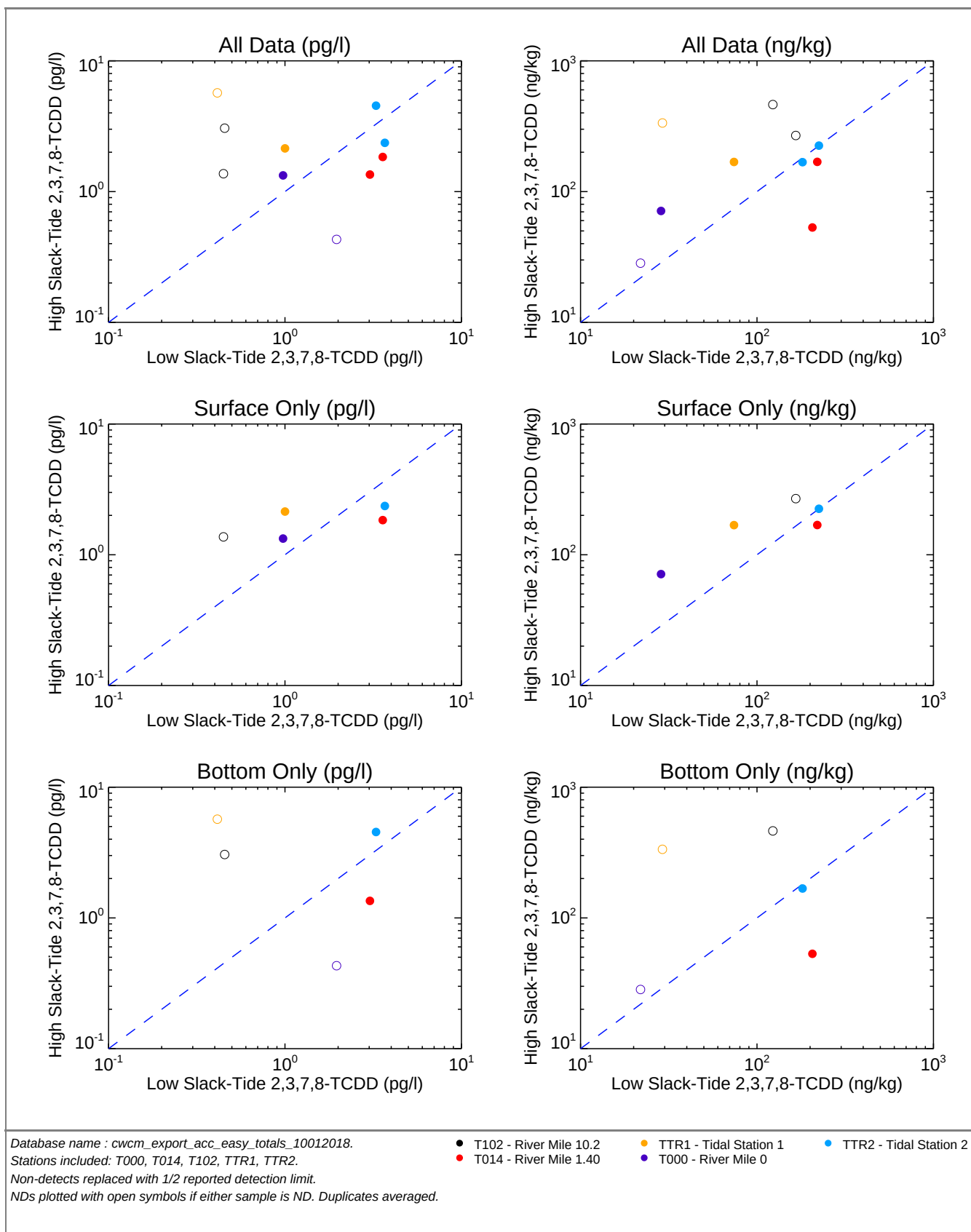


Figure 2-9b

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison
by Event: February 2012 (Low Flow)**

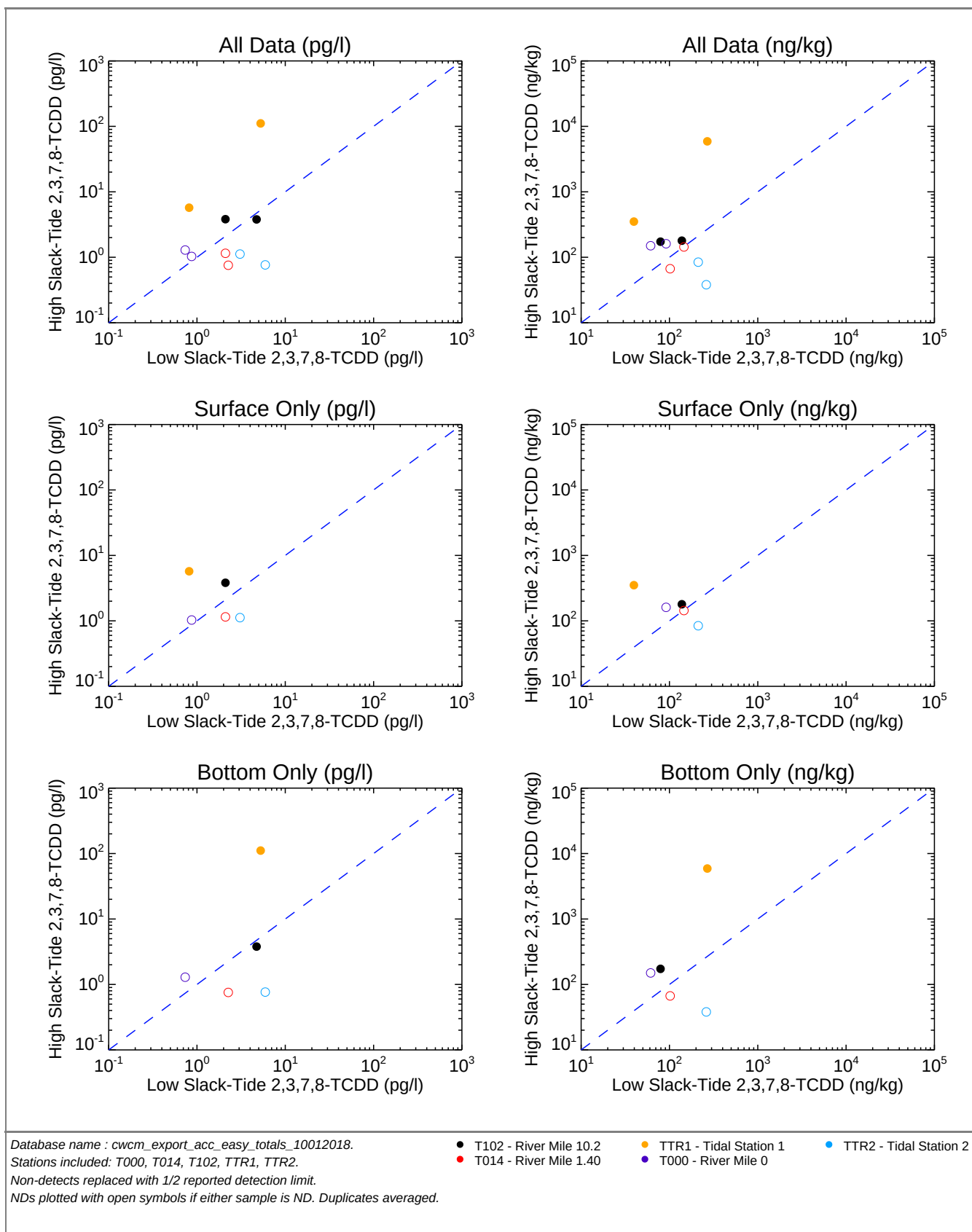


Figure 2-9c

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Event: March 2012 (Low Flow)

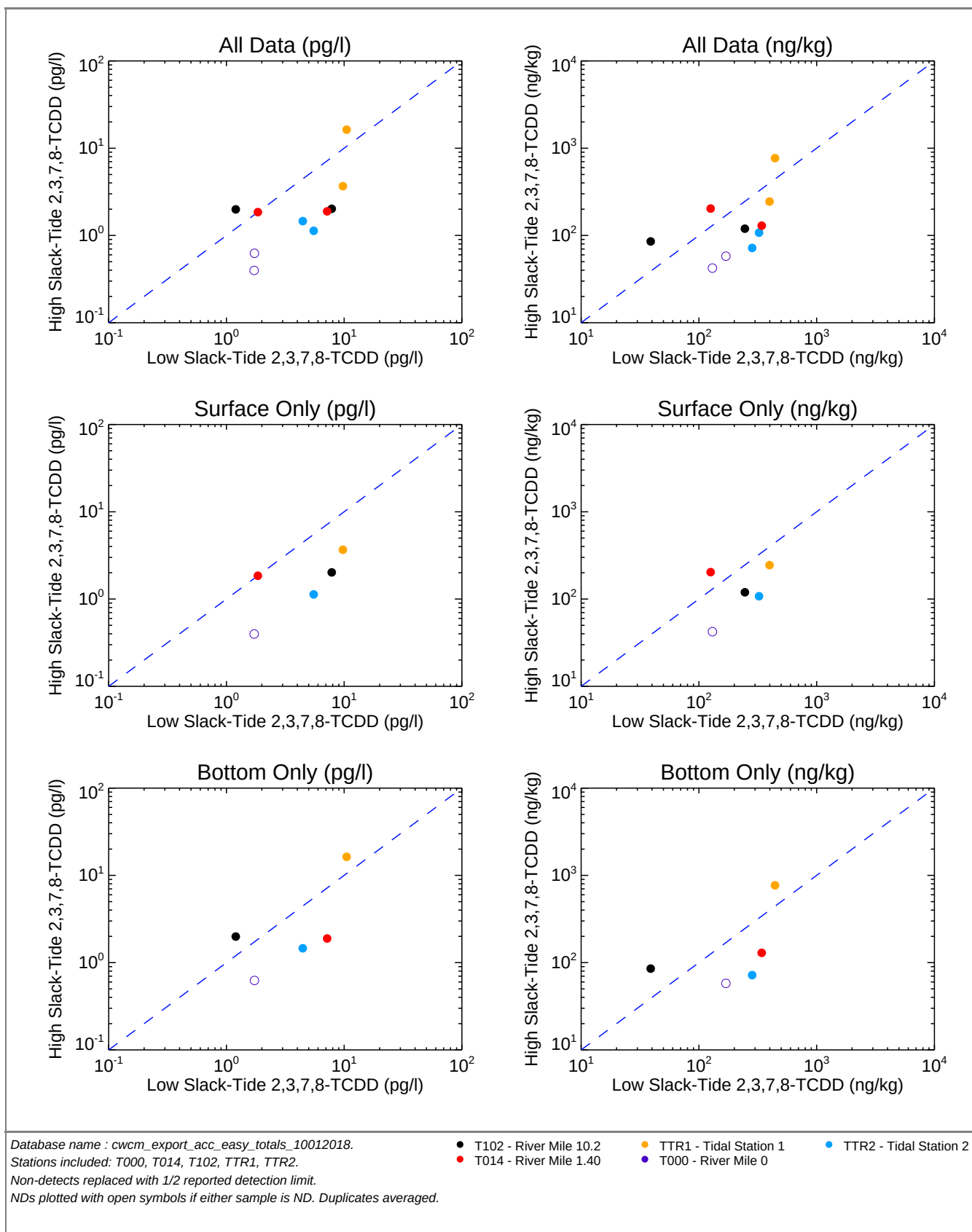


Figure 2-9d

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison
by Event: August 2012 (Low Flow)**

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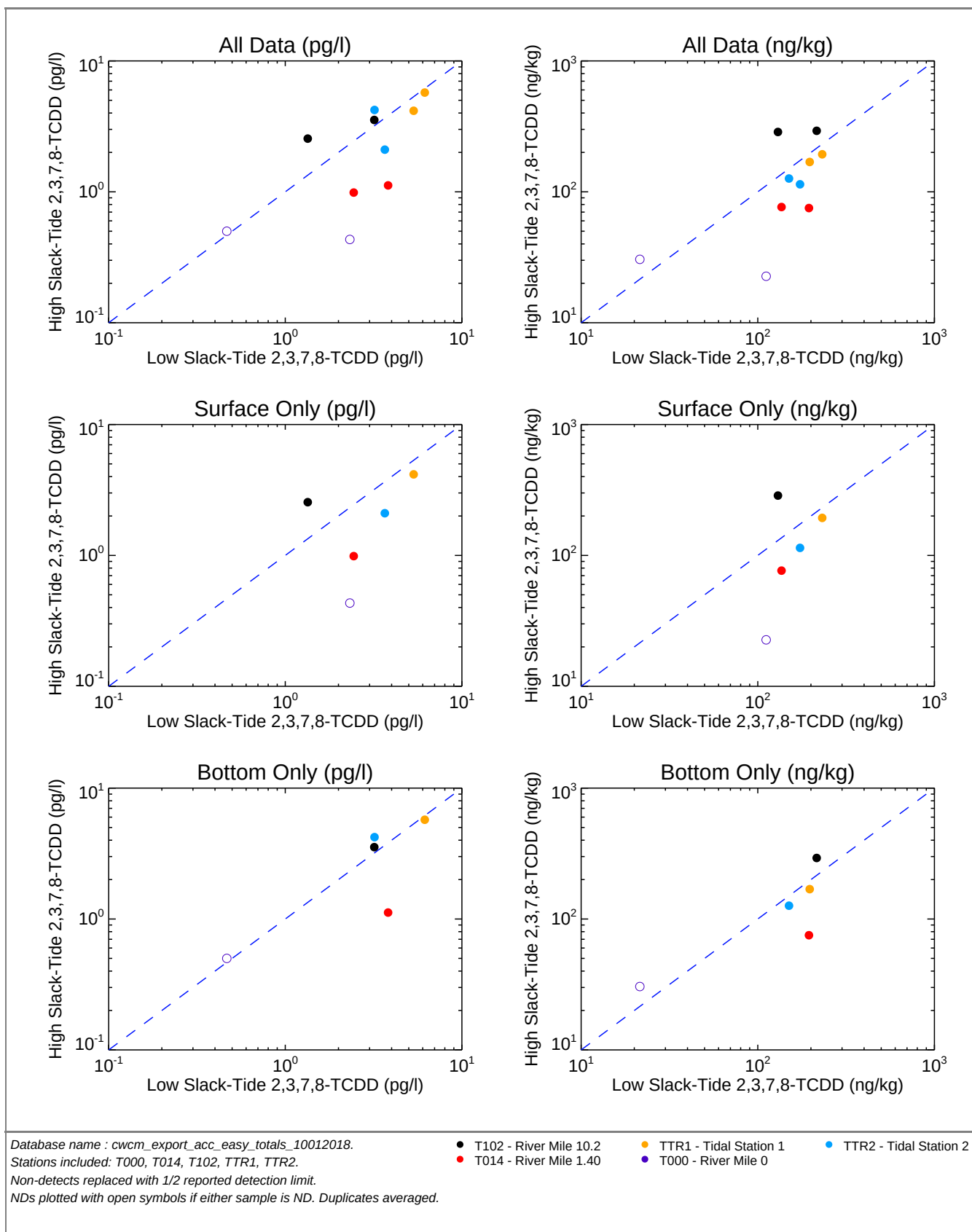


Figure 2-9e

**Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison
by Event: December 2012 (Low Flow)**

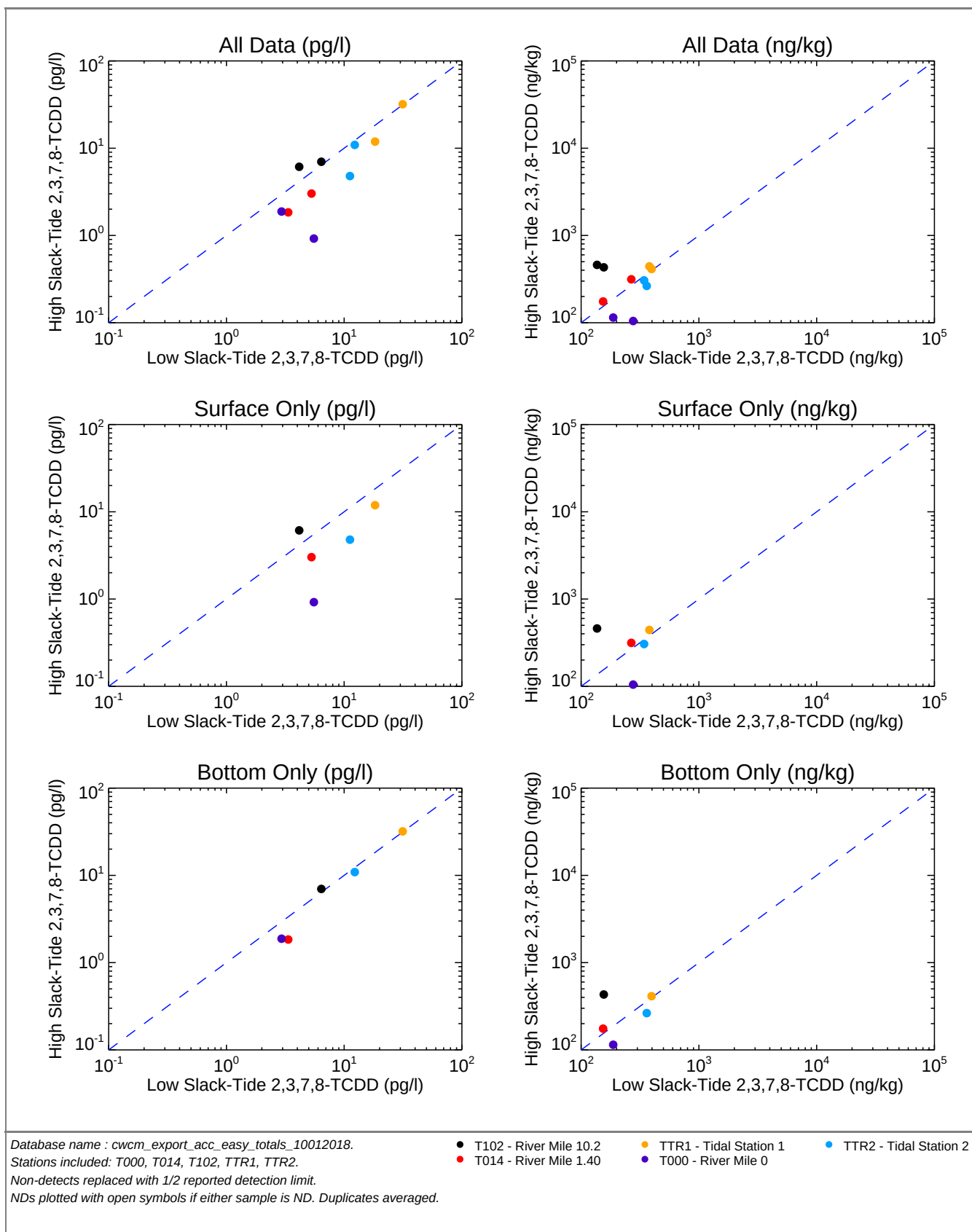
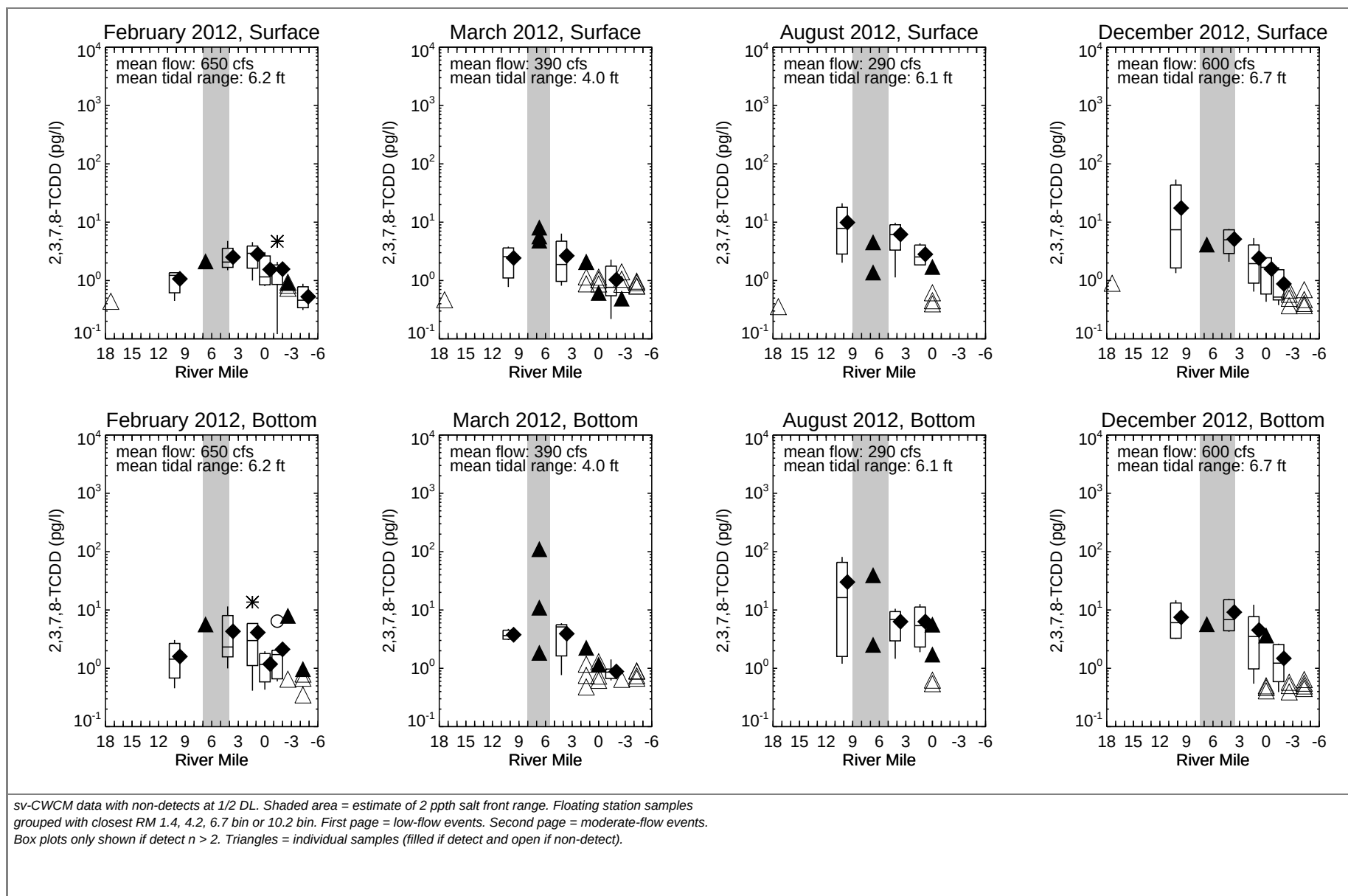


Figure 2-9f

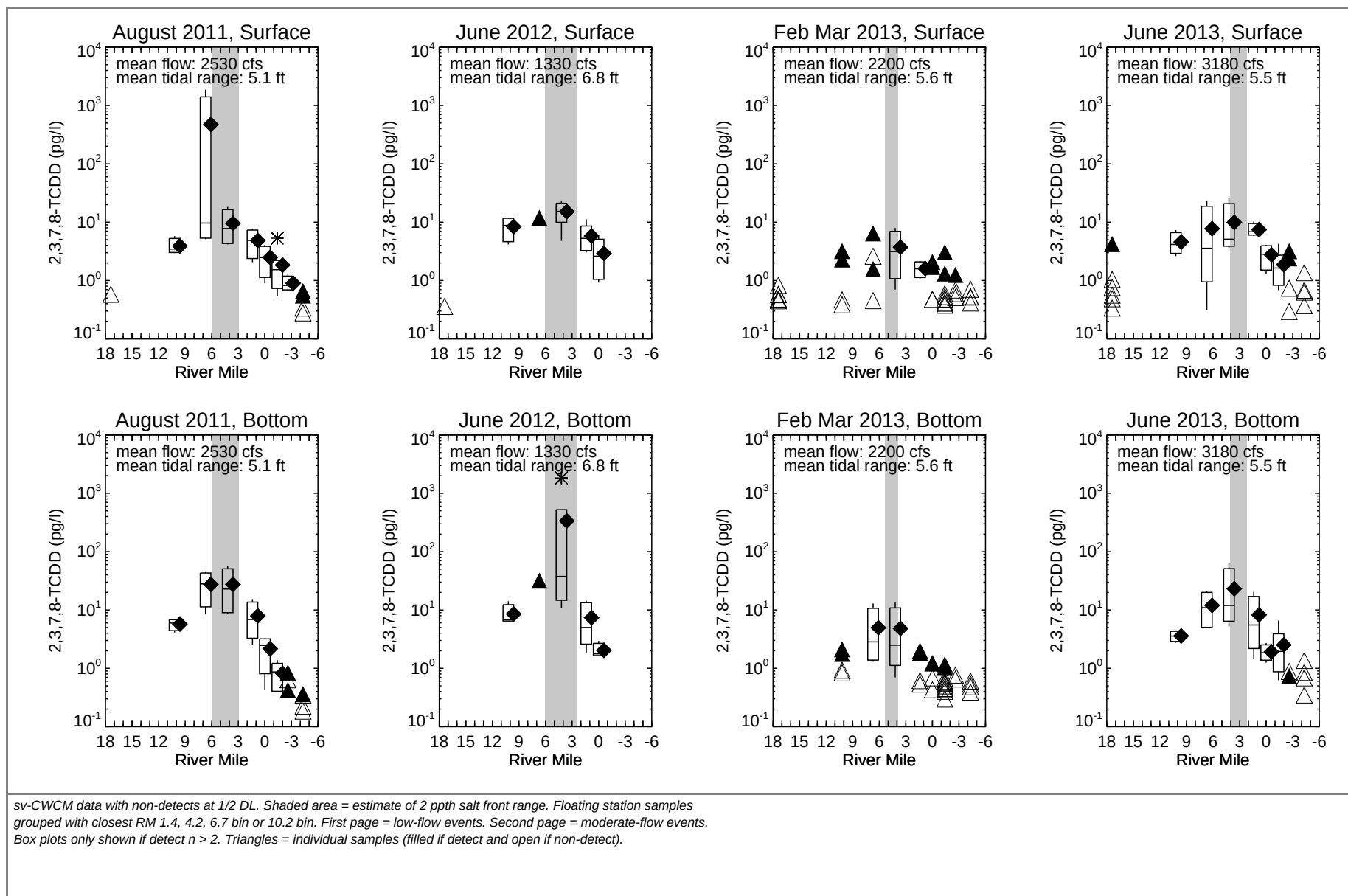
Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Slack-Tide Comparison by Event: June 2012 (Moderate Flow)



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Figure 3-1a
2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

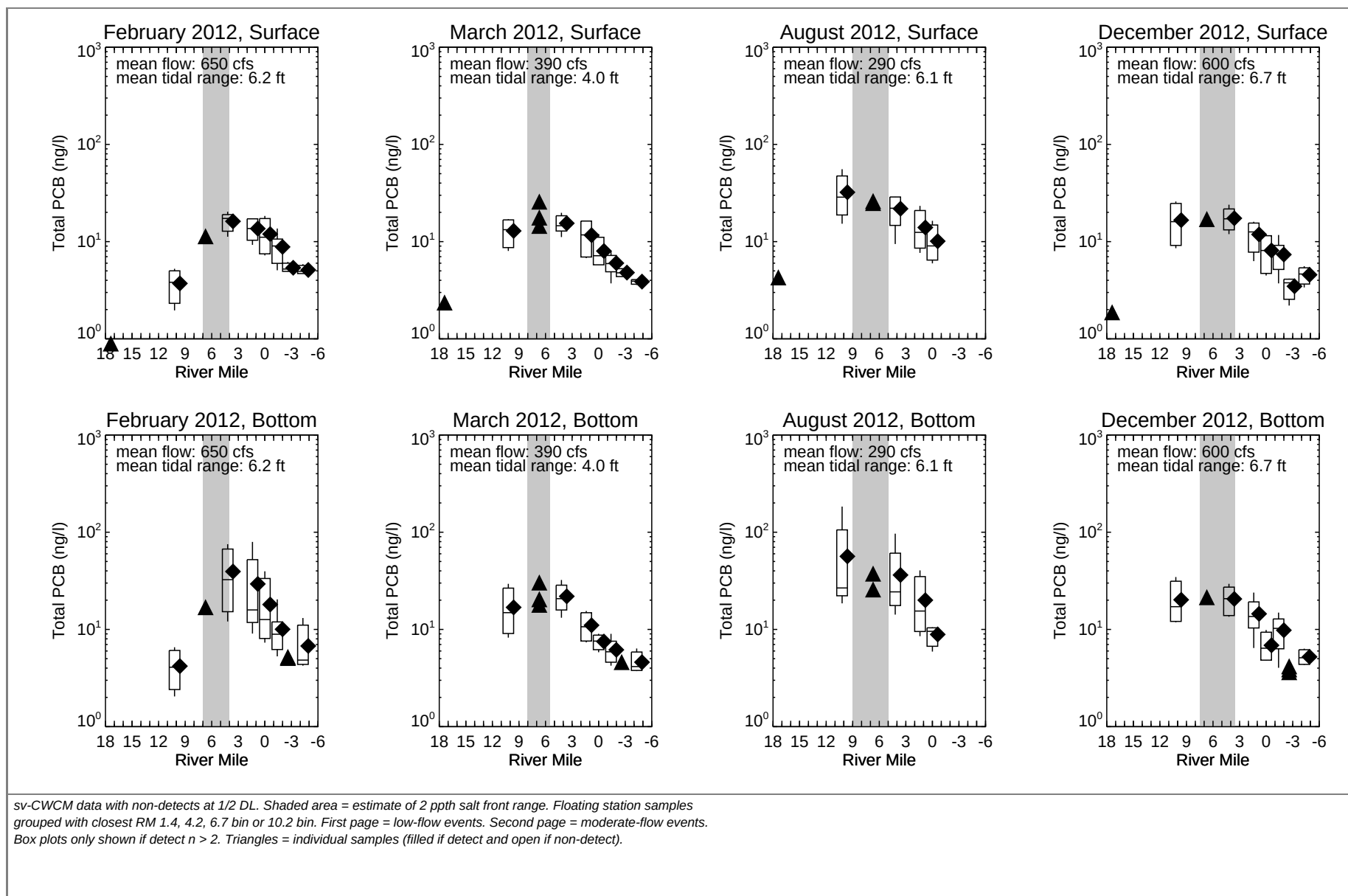
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Figure 3-1b
2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

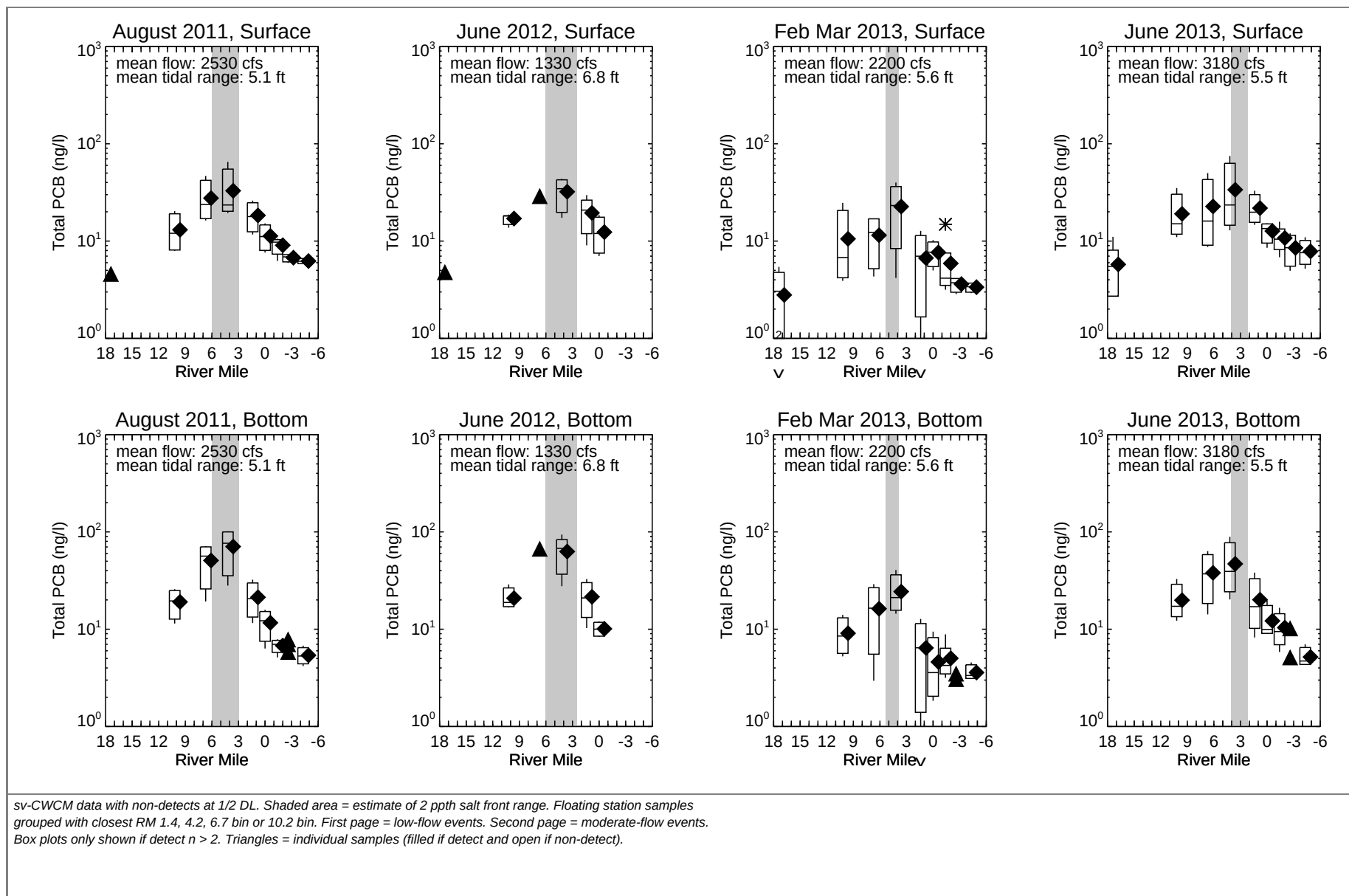
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Figure 3-1c
Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

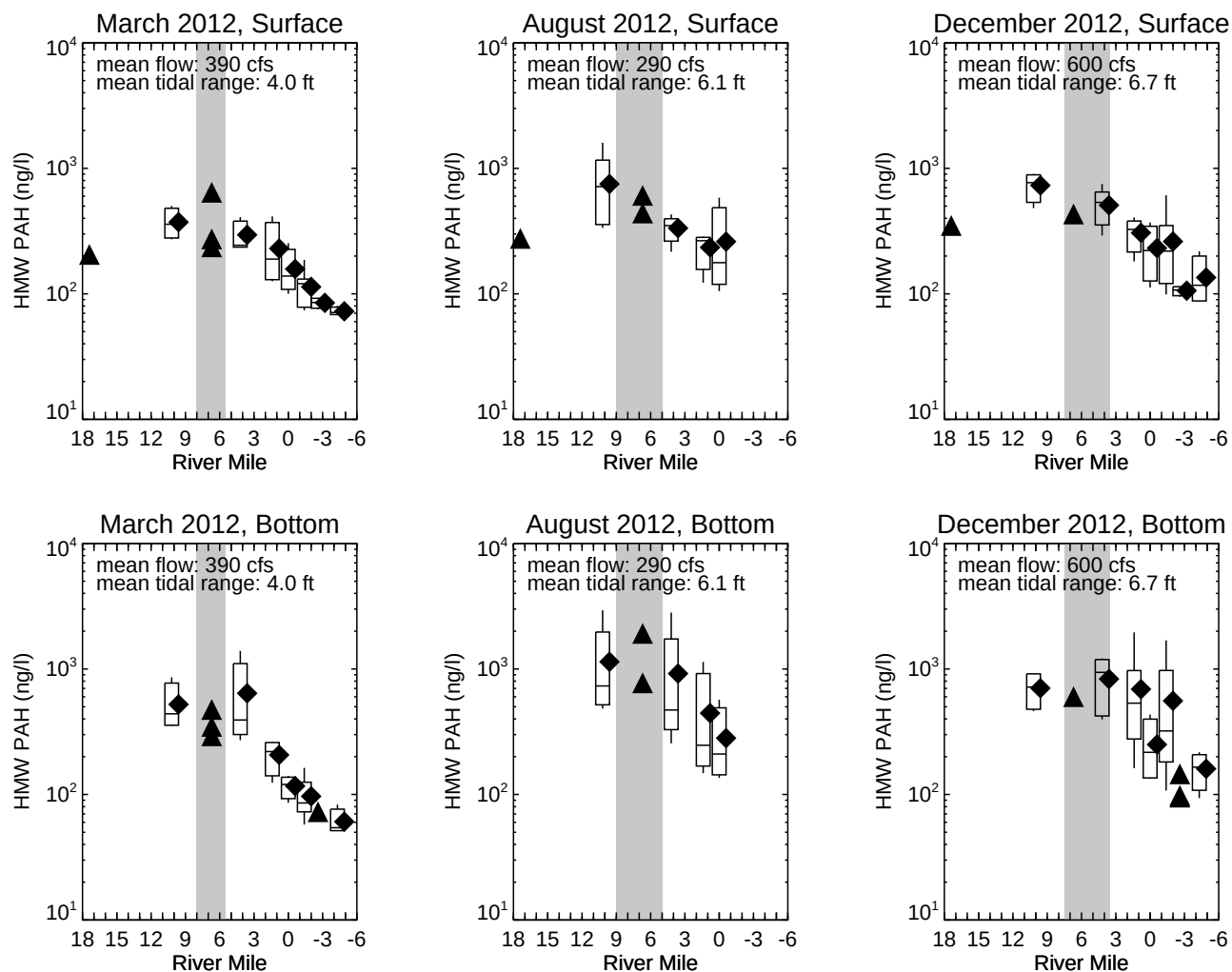
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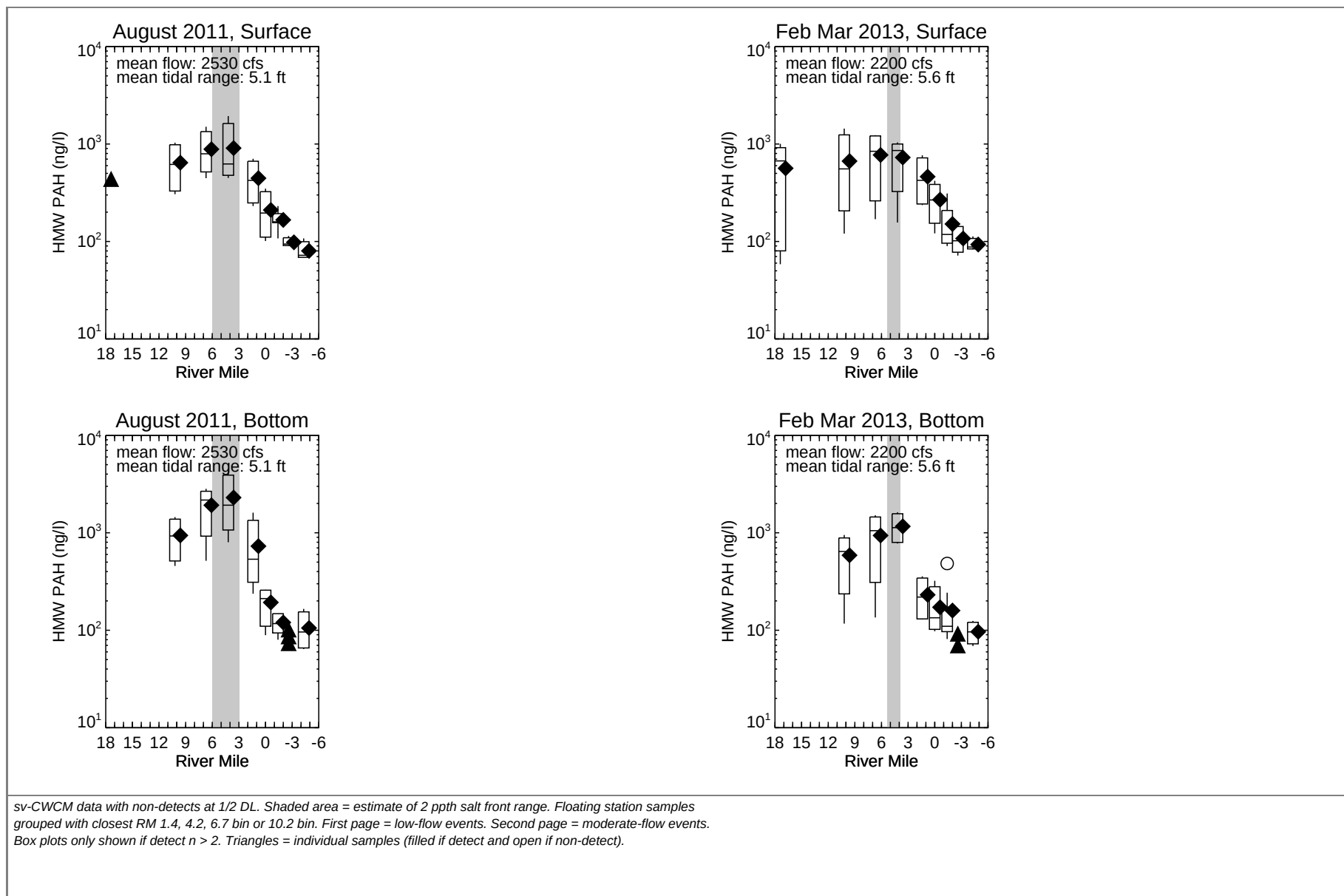
Figure 3-1d
Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

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sv-CWCM data with non-detects at 1/2 DL. Shaded area = estimate of 2 ppt salt front range. Floating station samples grouped with closest RM 1.4, 4.2, 6.7 bin or 10.2 bin. First page = low-flow events. Second page = moderate-flow events. Box plots only shown if detect $n > 2$. Triangles = individual samples (filled if detect and open if non-detect).

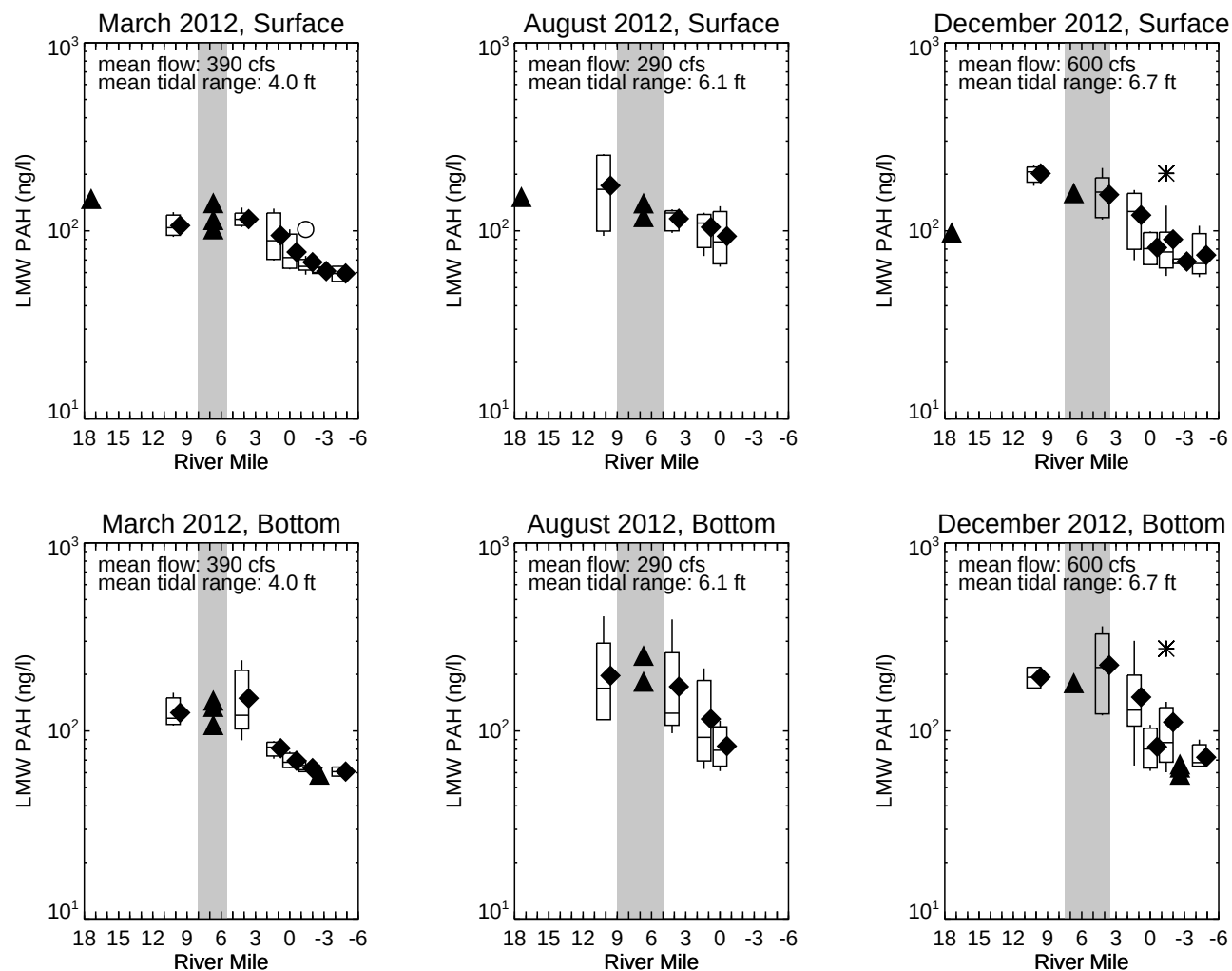
Figure 3-1e
HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth



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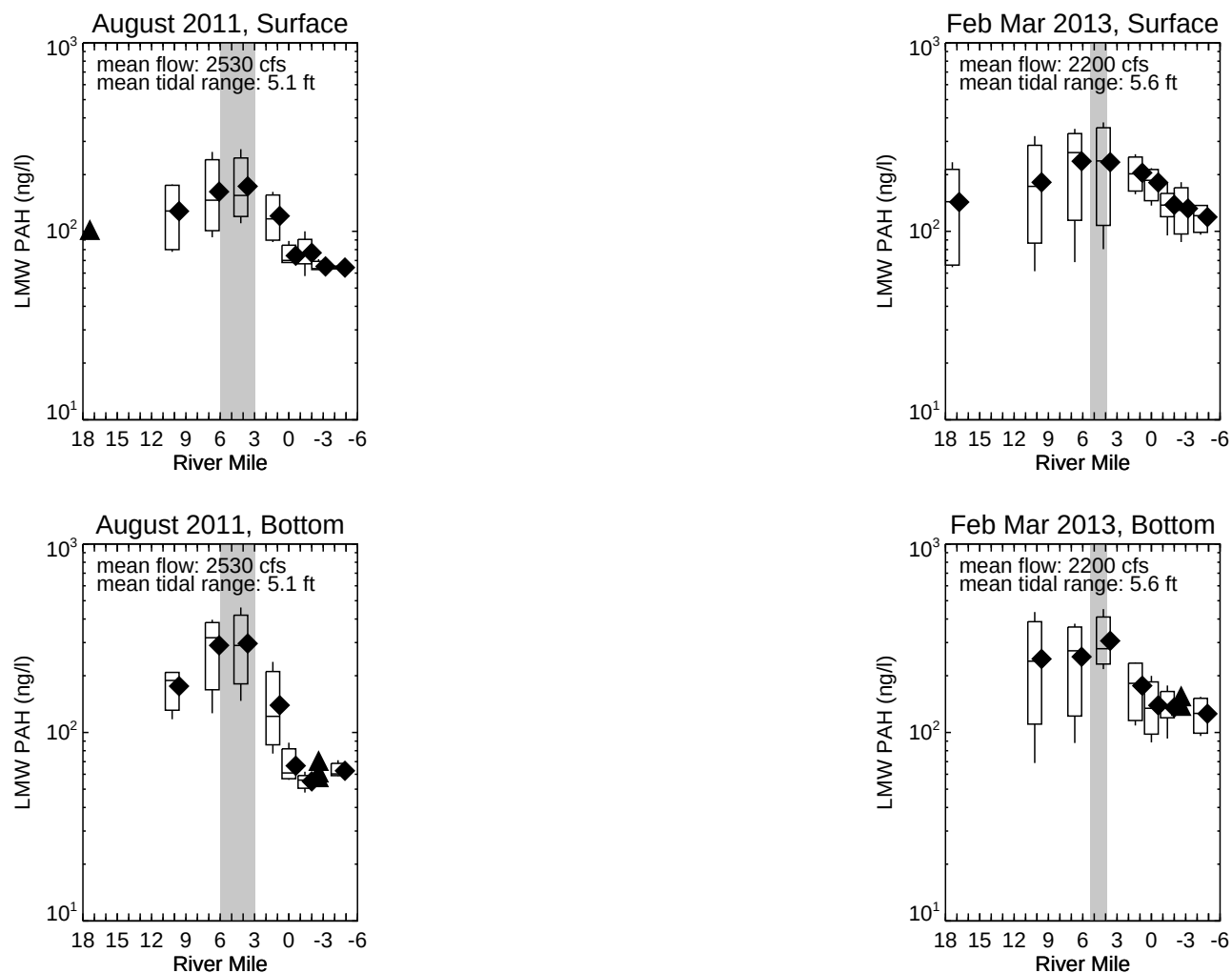
Figure 3-1f
HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

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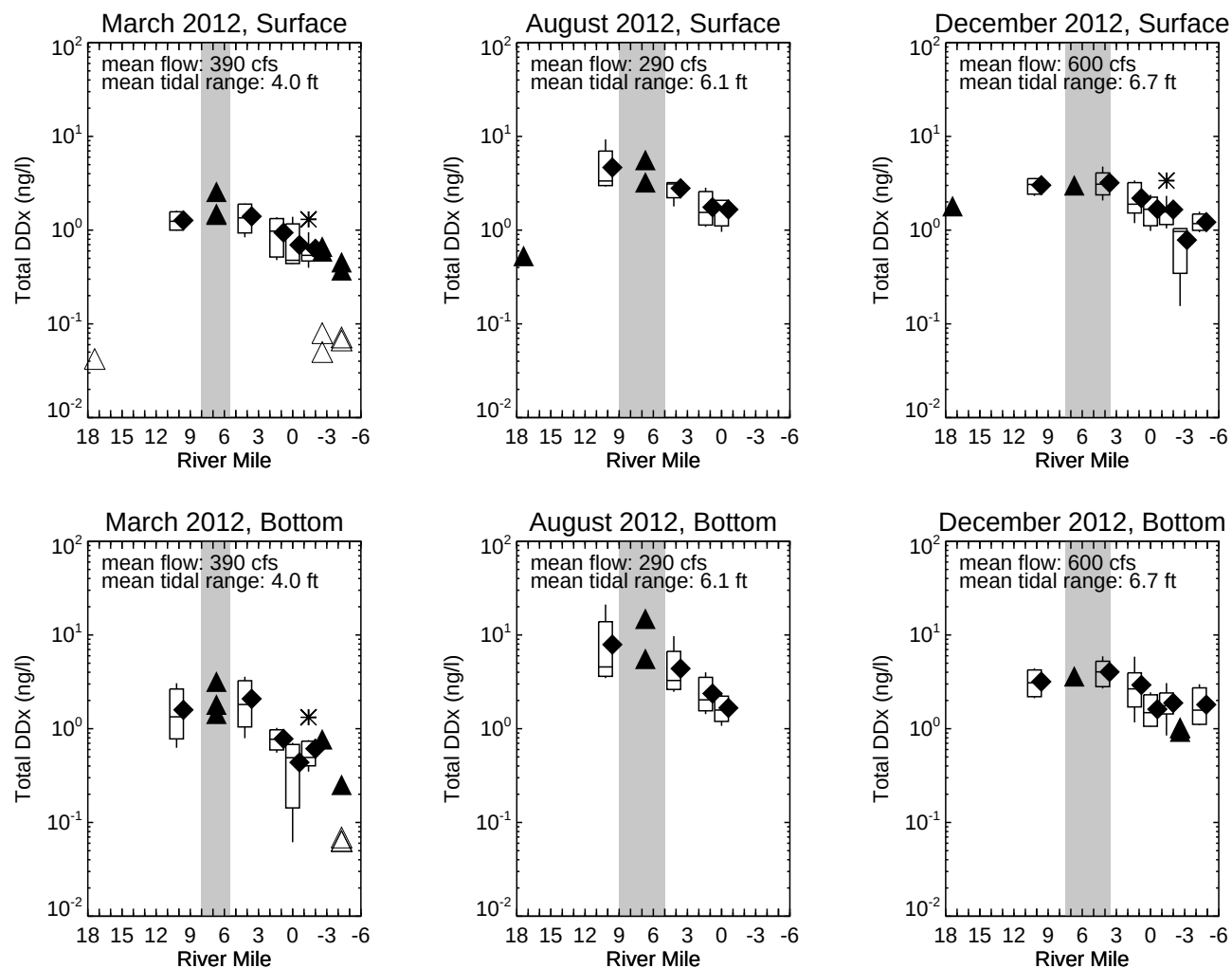
sv-CWCM data with non-detects at 1/2 DL. Shaded area = estimate of 2 ppt salt front range. Floating station samples grouped with closest RM 1.4, 4.2, 6.7 bin or 10.2 bin. First page = low-flow events. Second page = moderate-flow events. Box plots only shown if detect n > 2. Triangles = individual samples (filled if detect and open if non-detect).

Figure 3-1g
LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth



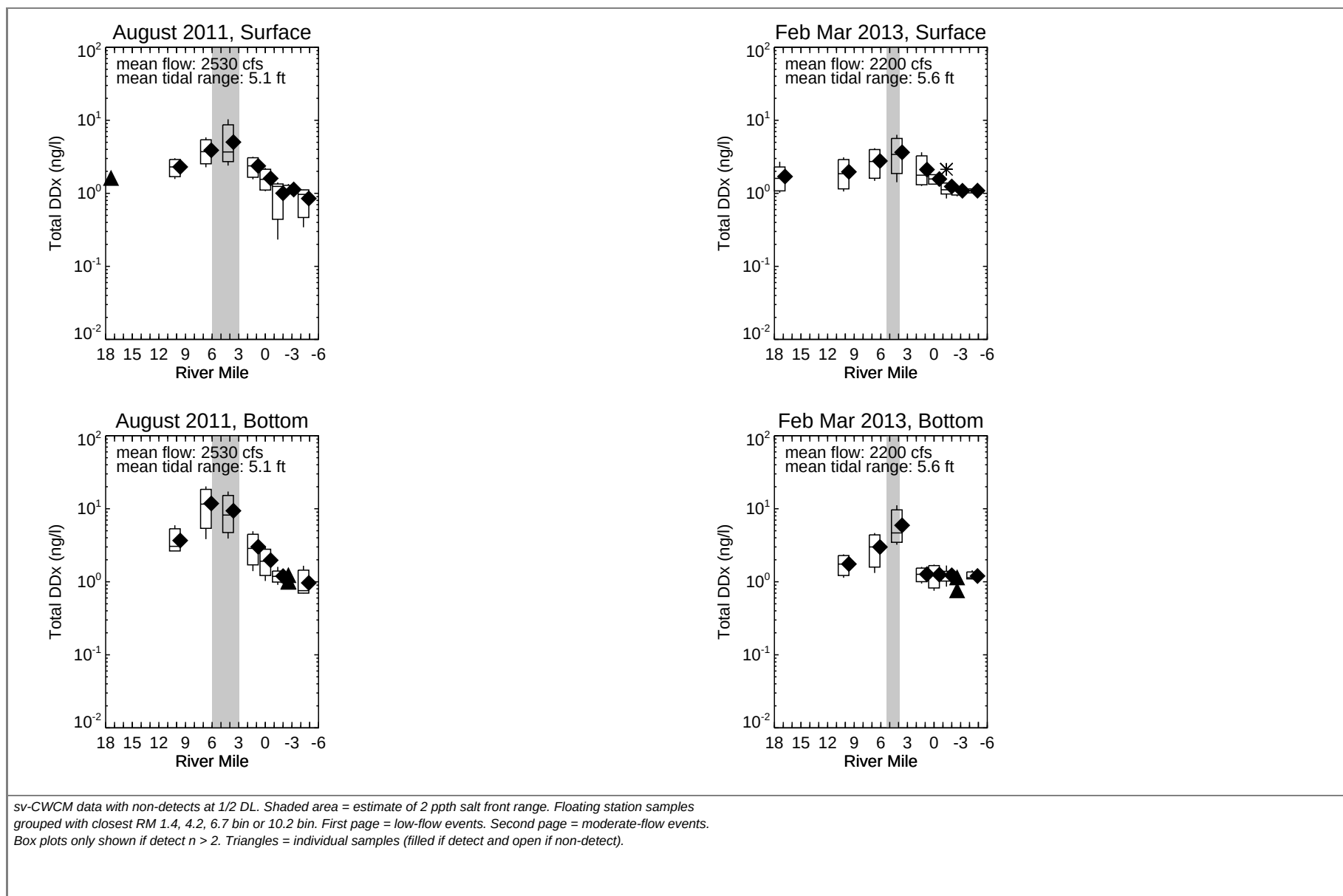
sv-CWCM data with non-detects at 1/2 DL. Shaded area = estimate of 2 ppt salt front range. Floating station samples grouped with closest RM 1.4, 4.2, 6.7 bin or 10.2 bin. First page = low-flow events. Second page = moderate-flow events. Box plots only shown if detect $n > 2$. Triangles = individual samples (filled if detect and open if non-detect).

Figure 3-1h
LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth



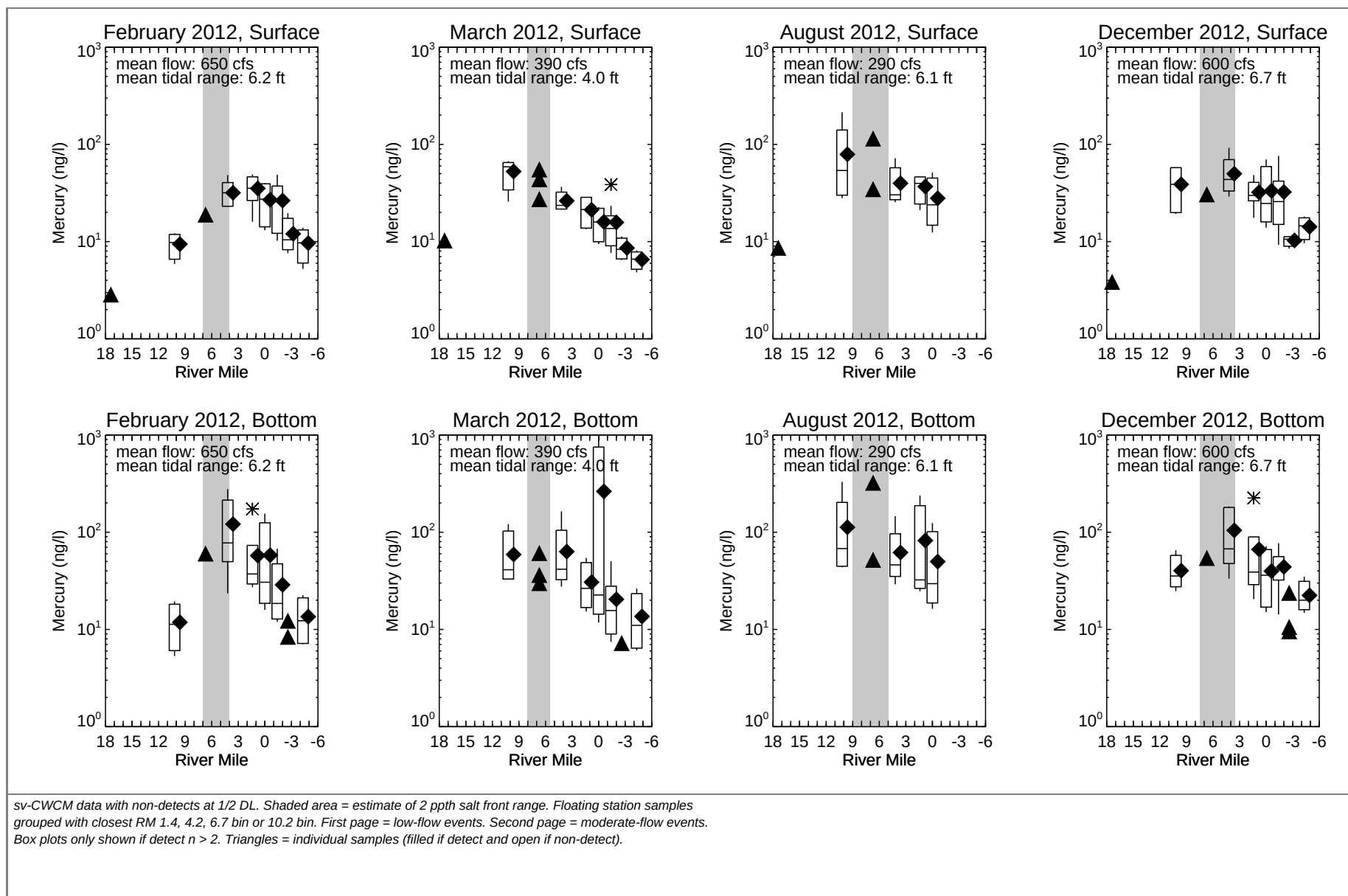
sv-CWCM data with non-detects at 1/2 DL. Shaded area = estimate of 2 ppt salt front range. Floating station samples grouped with closest RM 1.4, 4.2, 6.7 bin or 10.2 bin. First page = low-flow events. Second page = moderate-flow events. Box plots only shown if detect $n > 2$. Triangles = individual samples (filled if detect and open if non-detect).

Figure 3-1i
Total DDx Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth
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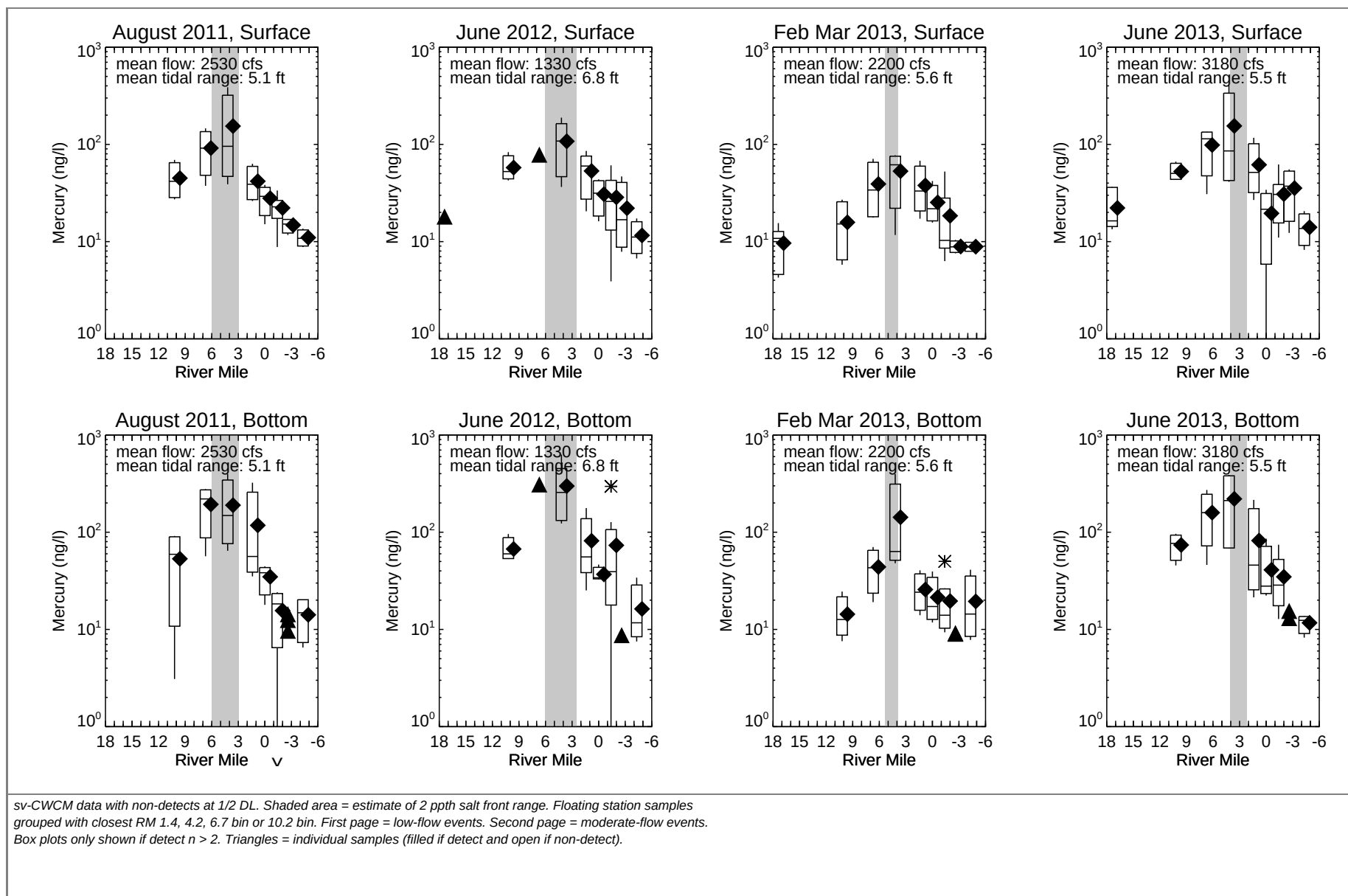
Figure 3-1j
Total DDx Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth
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Figure 3-1k
Mercury Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

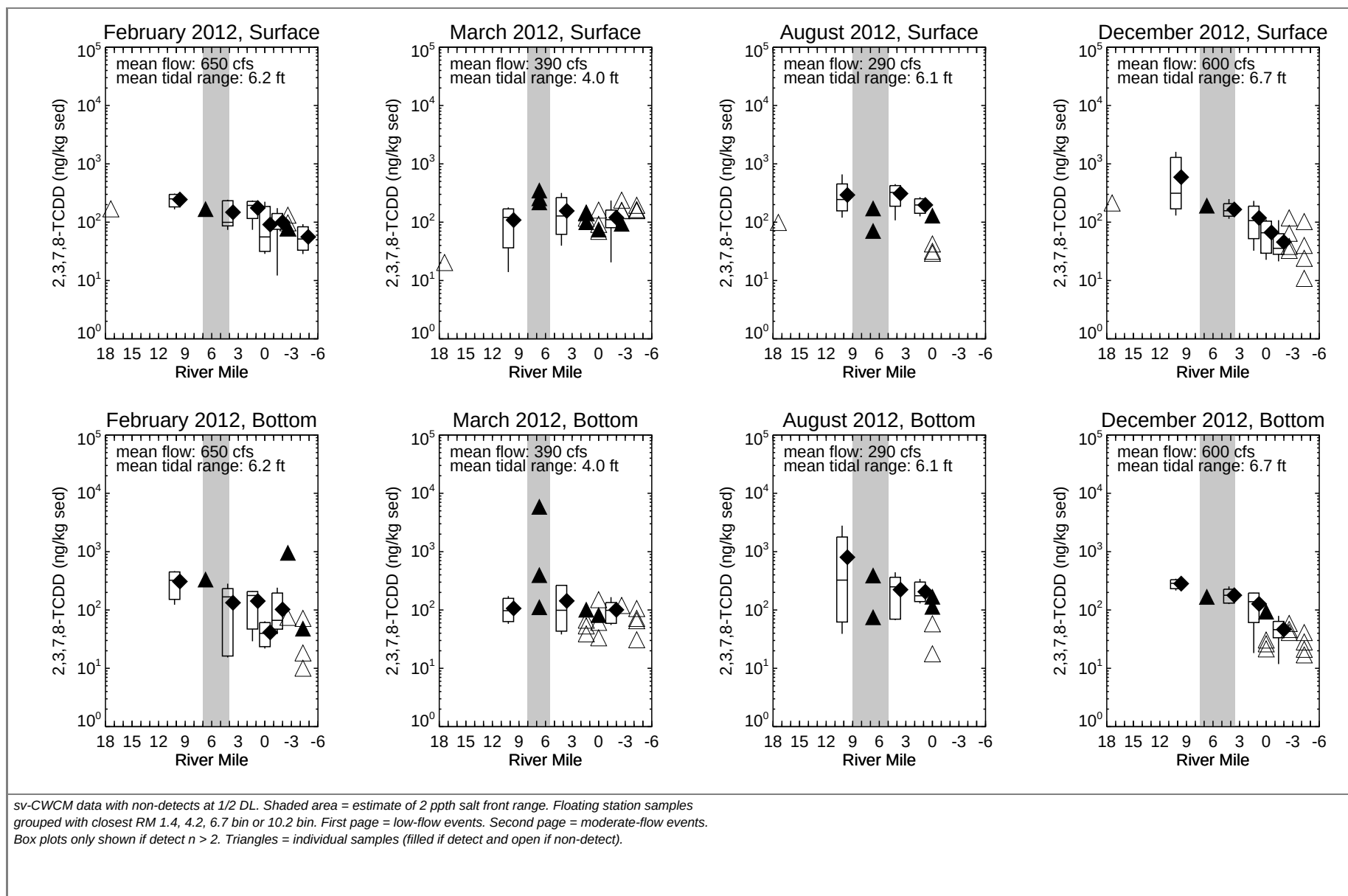
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Figure 3-11
Mercury Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

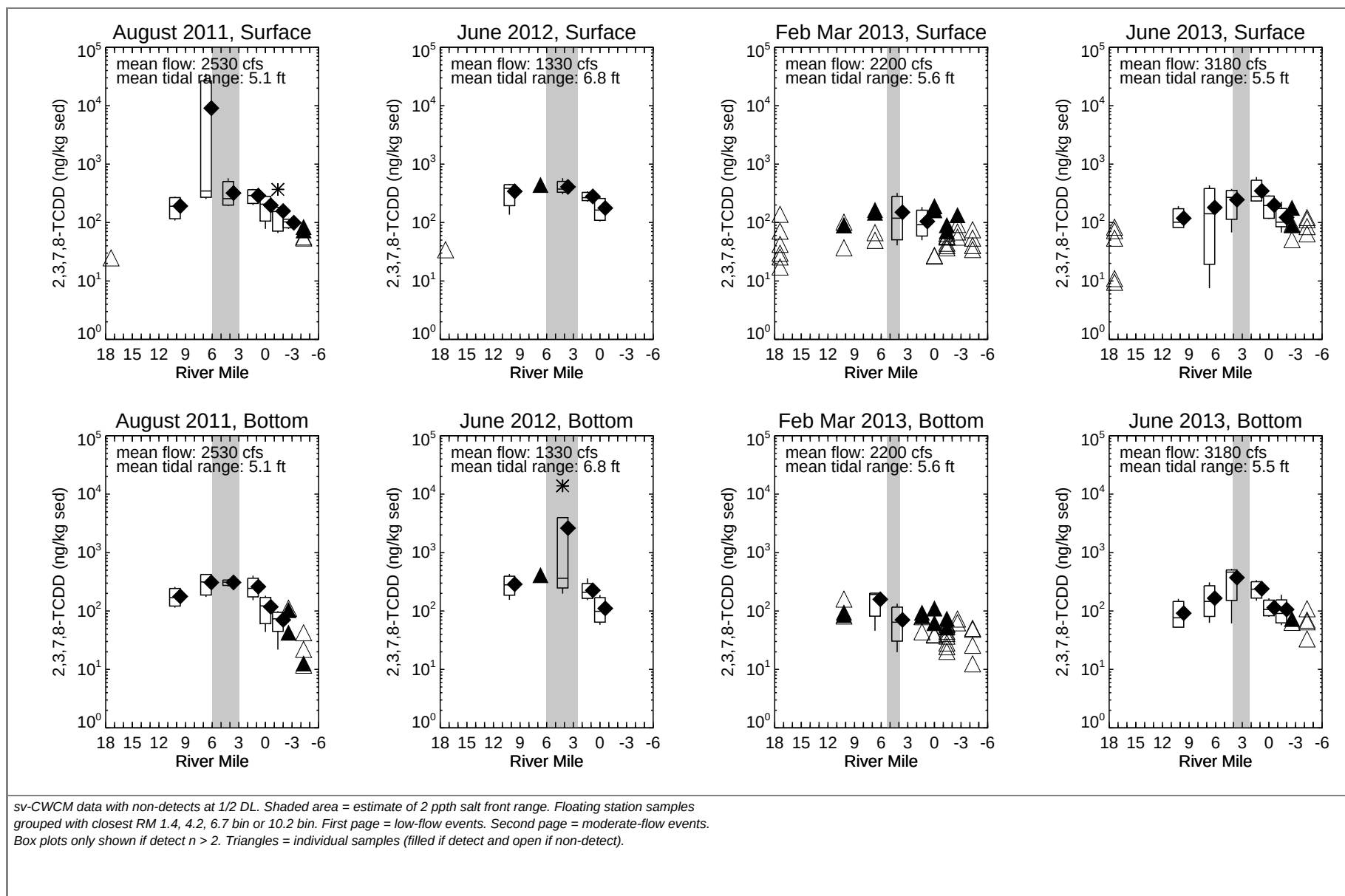
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Figure 3-2a
Solids-normalized 2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

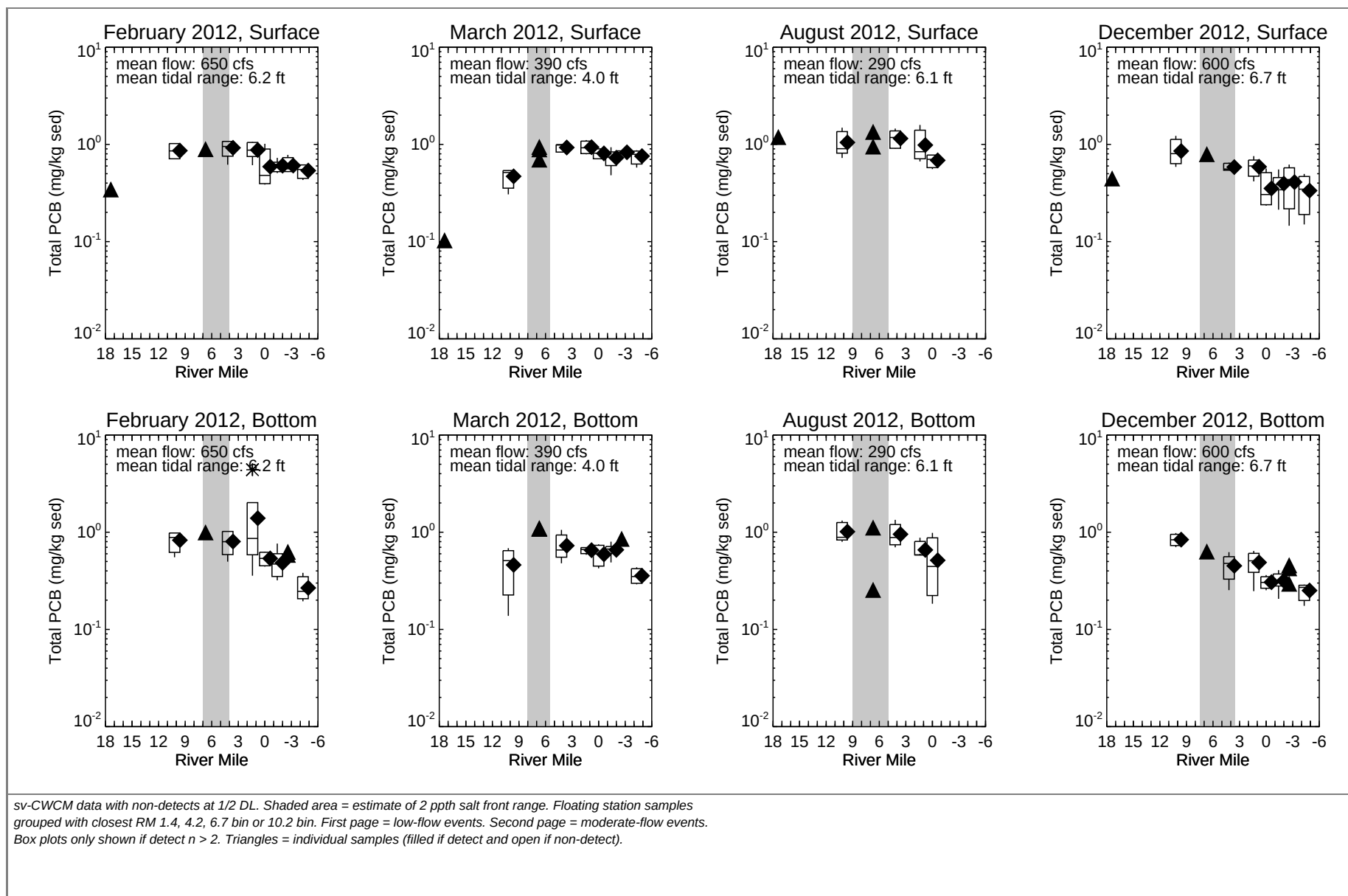
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Figure 3-2b
Solids-normalized 2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

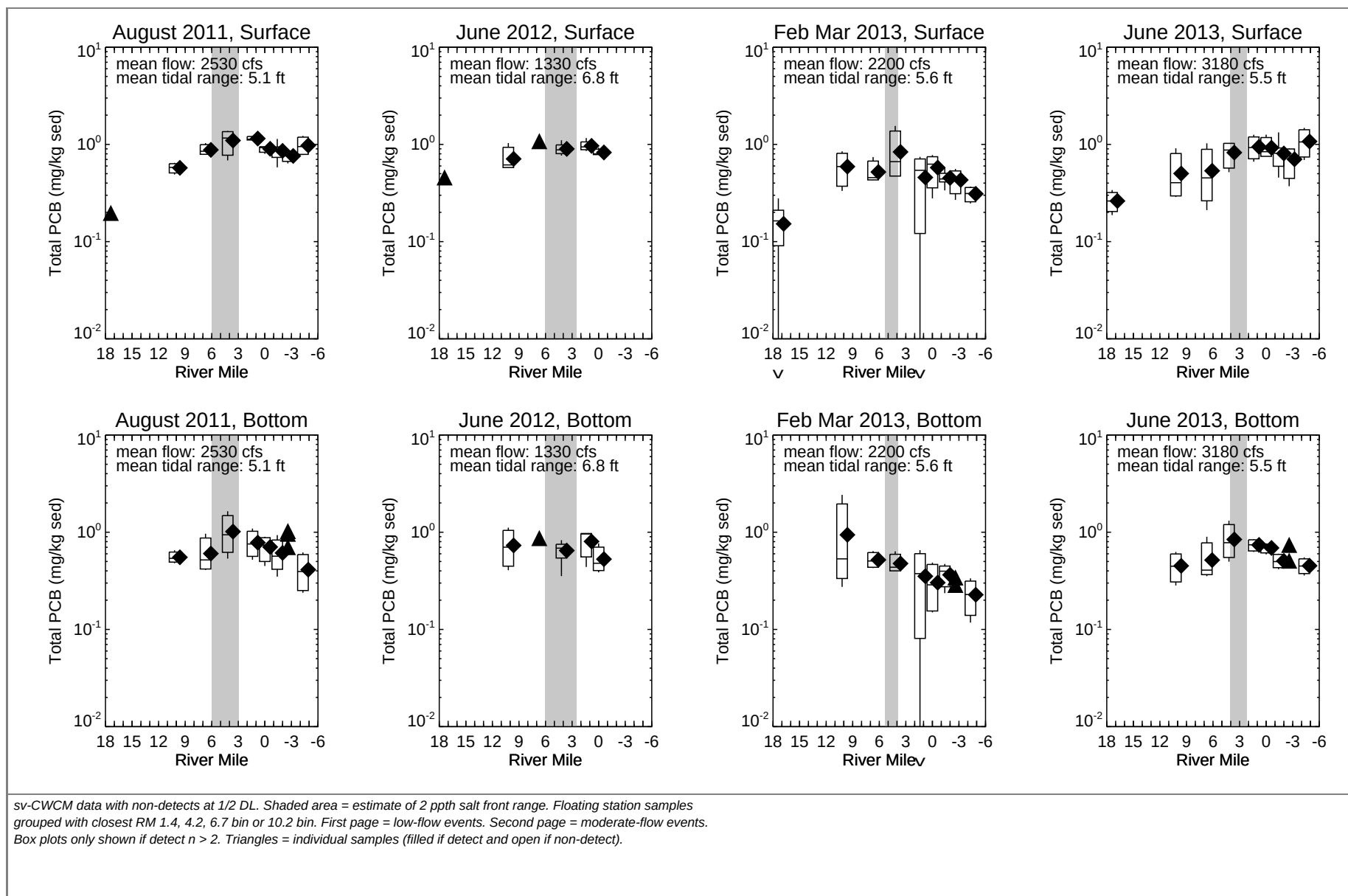
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Figure 3-2c
Solids-normalized Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

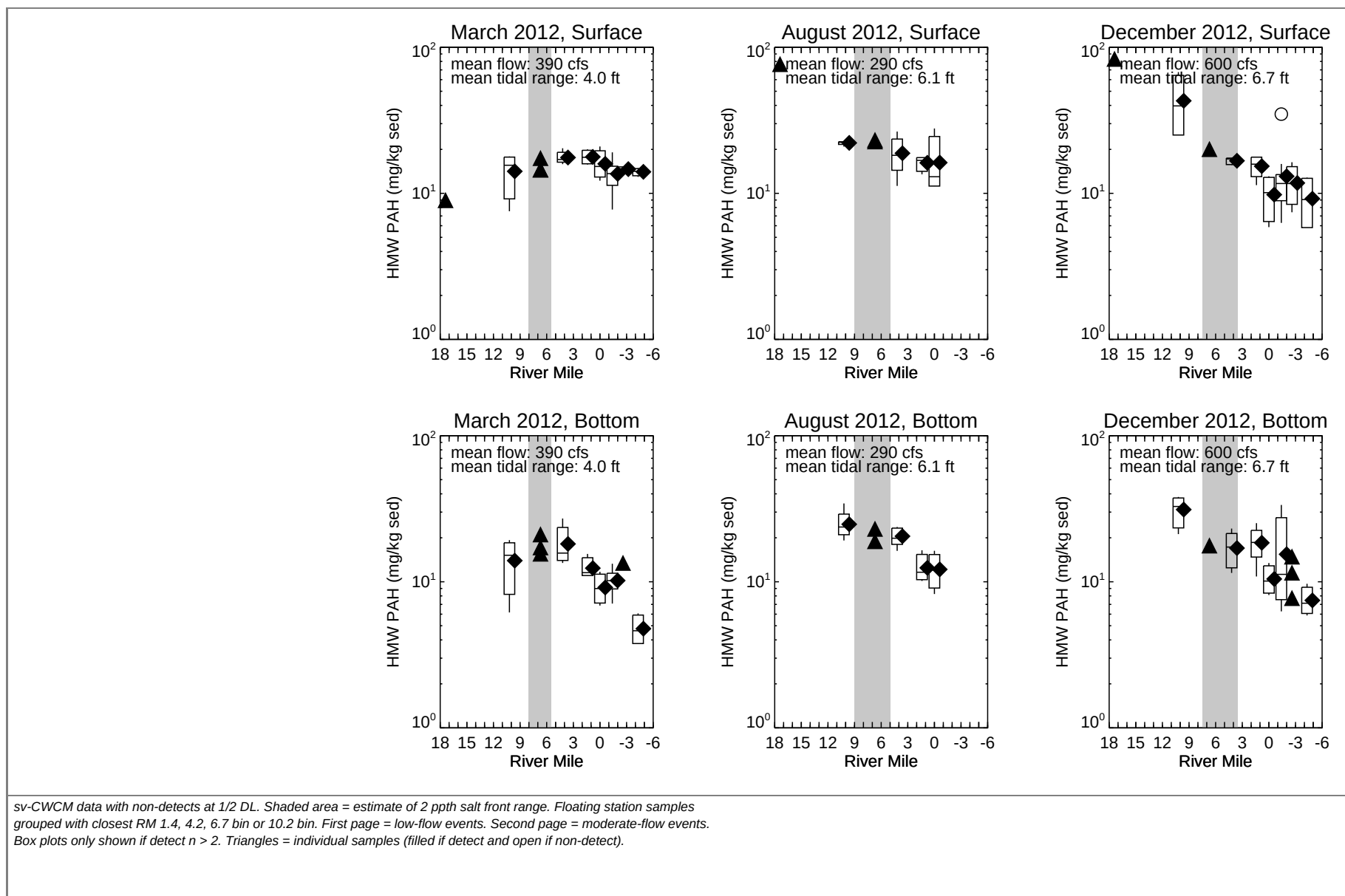
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Figure 3-2d
Solids-normalized Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

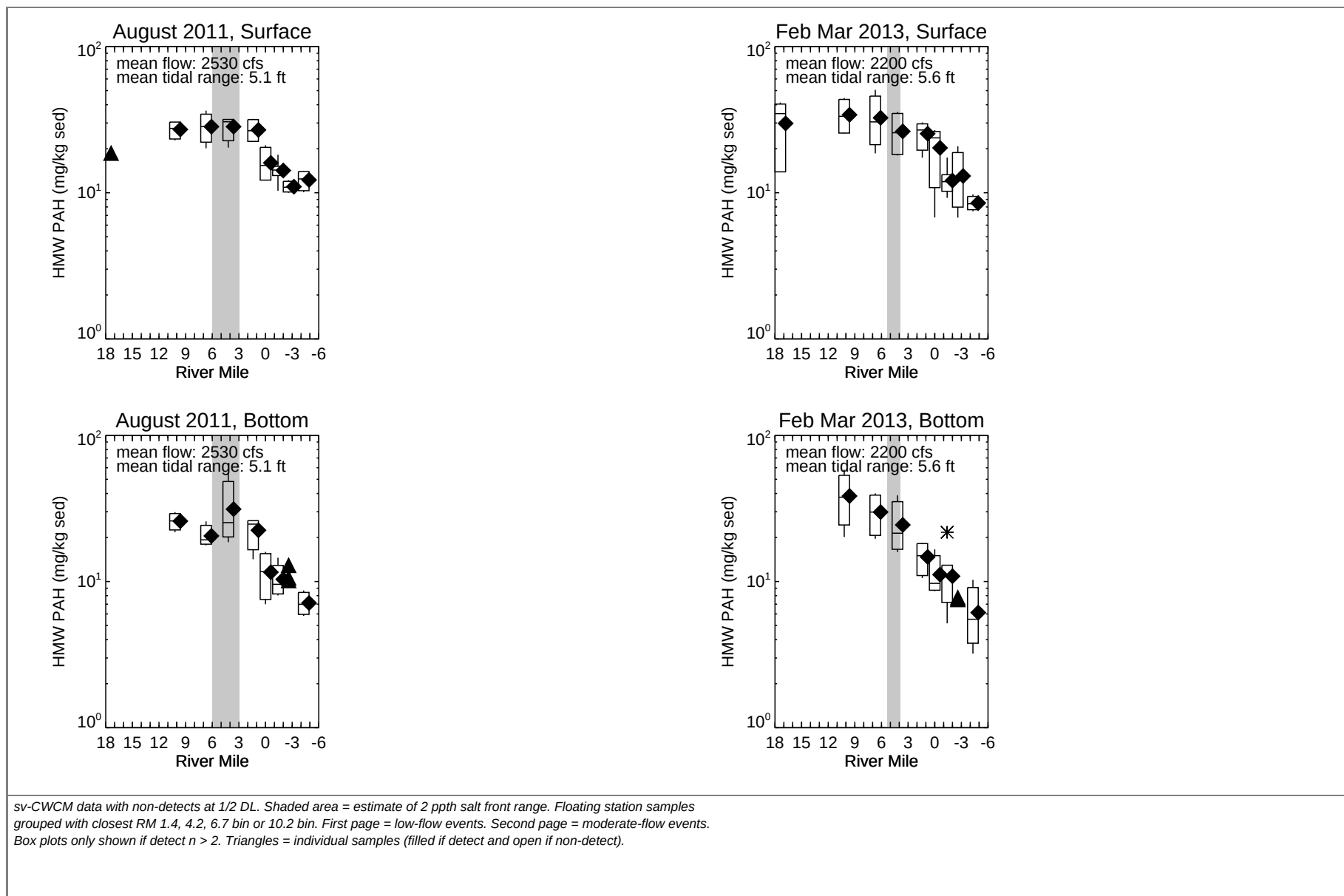
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Figure 3-2e
Solids-normalized HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

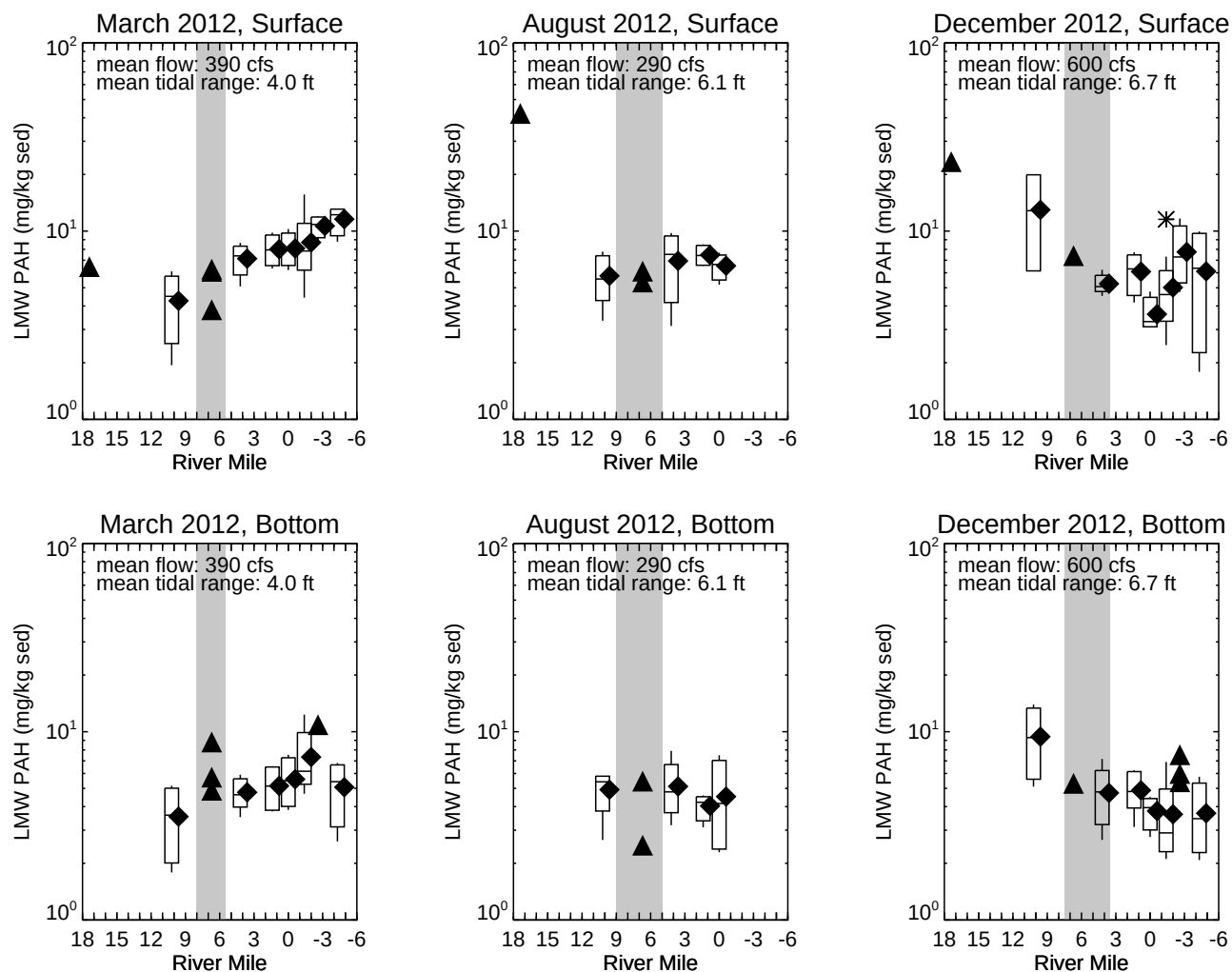
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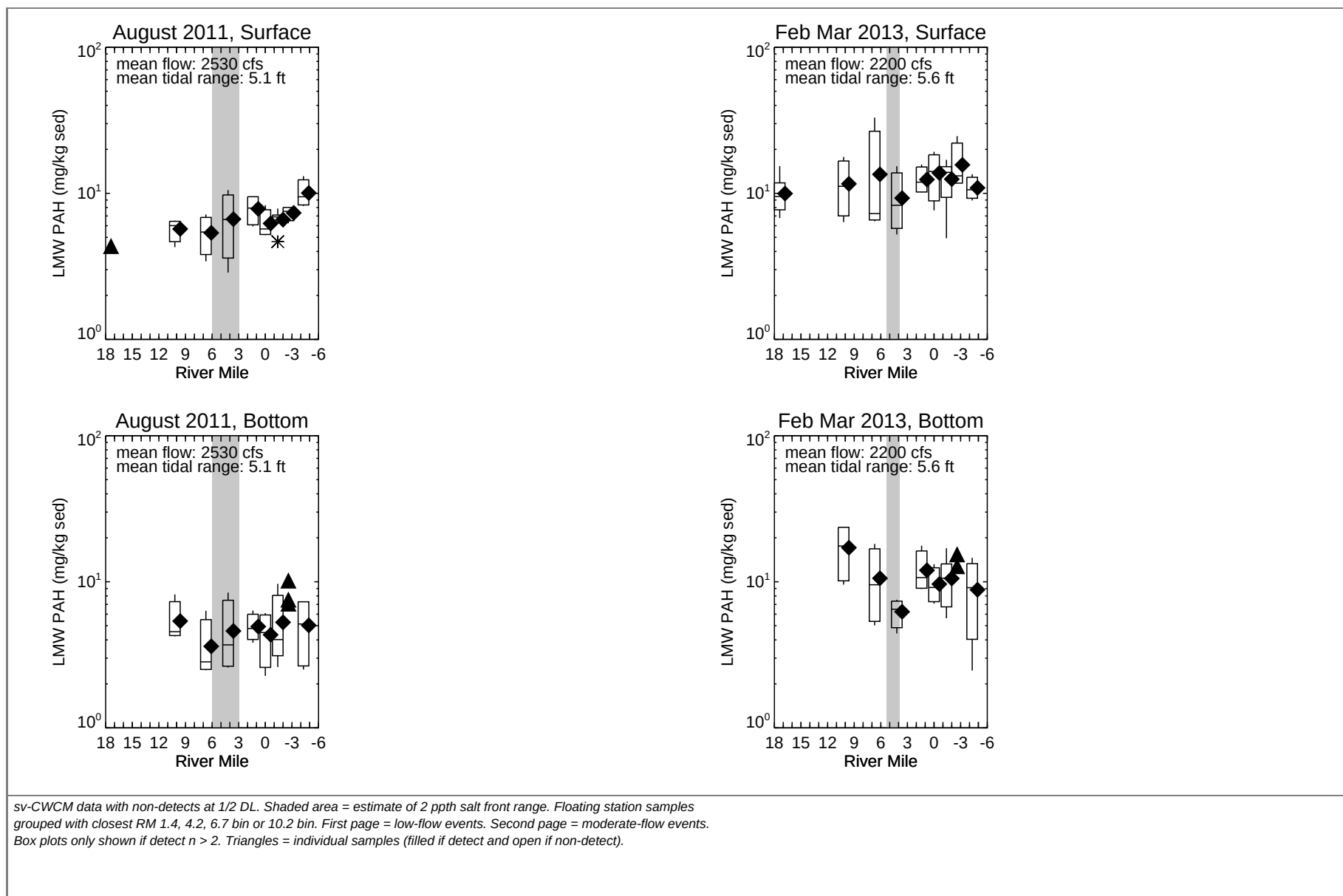
Figure 3-2f
Solids-normalized HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

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sv-CWCM data with non-detects at 1/2 DL. Shaded area = estimate of 2 ppt salt front range. Floating station samples grouped with closest RM 1.4, 4.2, 6.7 bin or 10.2 bin. First page = low-flow events. Second page = moderate-flow events. Box plots only shown if detect $n > 2$. Triangles = individual samples (filled if detect and open if non-detect).

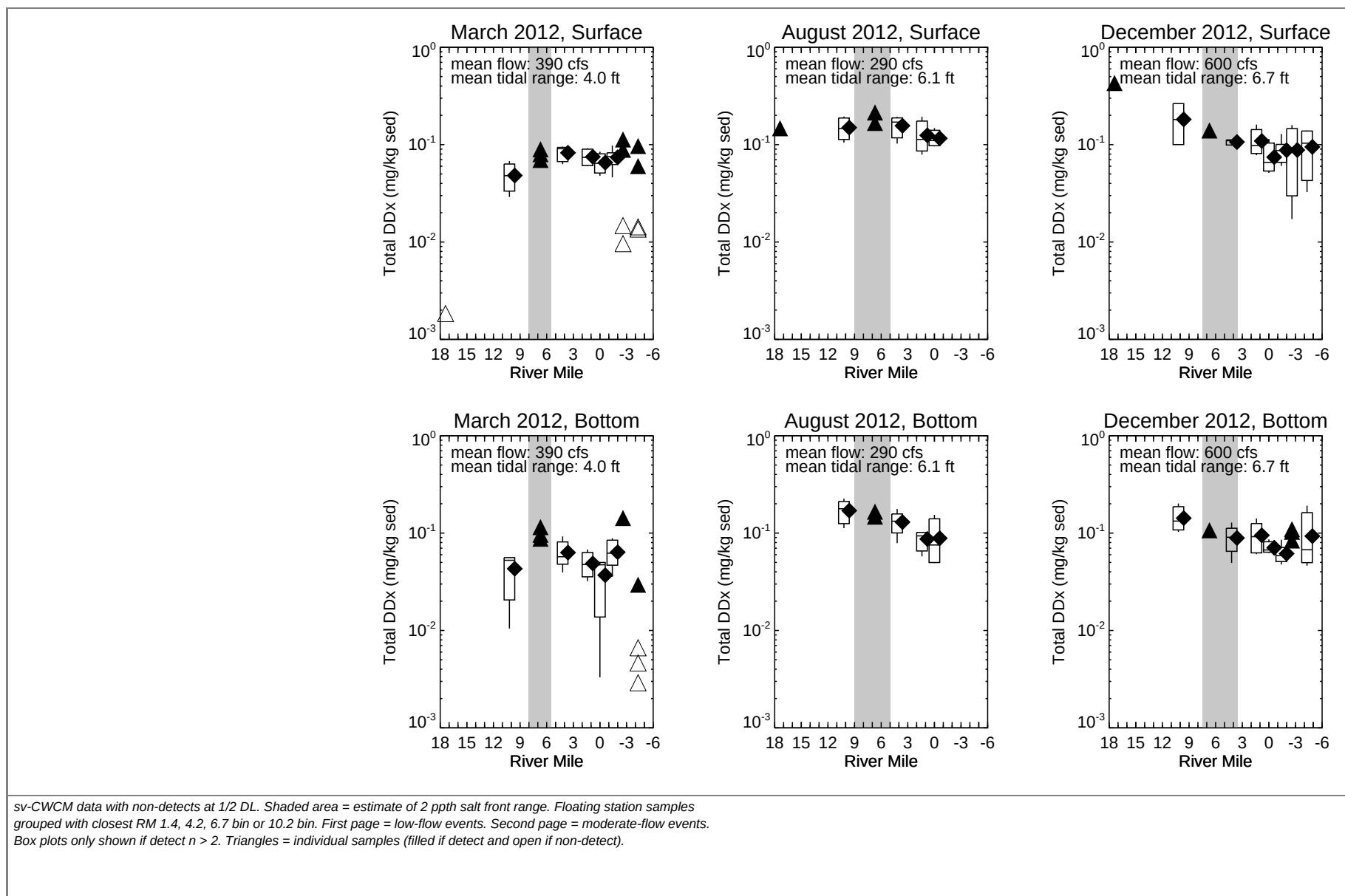
Figure 3-2g
Solids-normalized LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth



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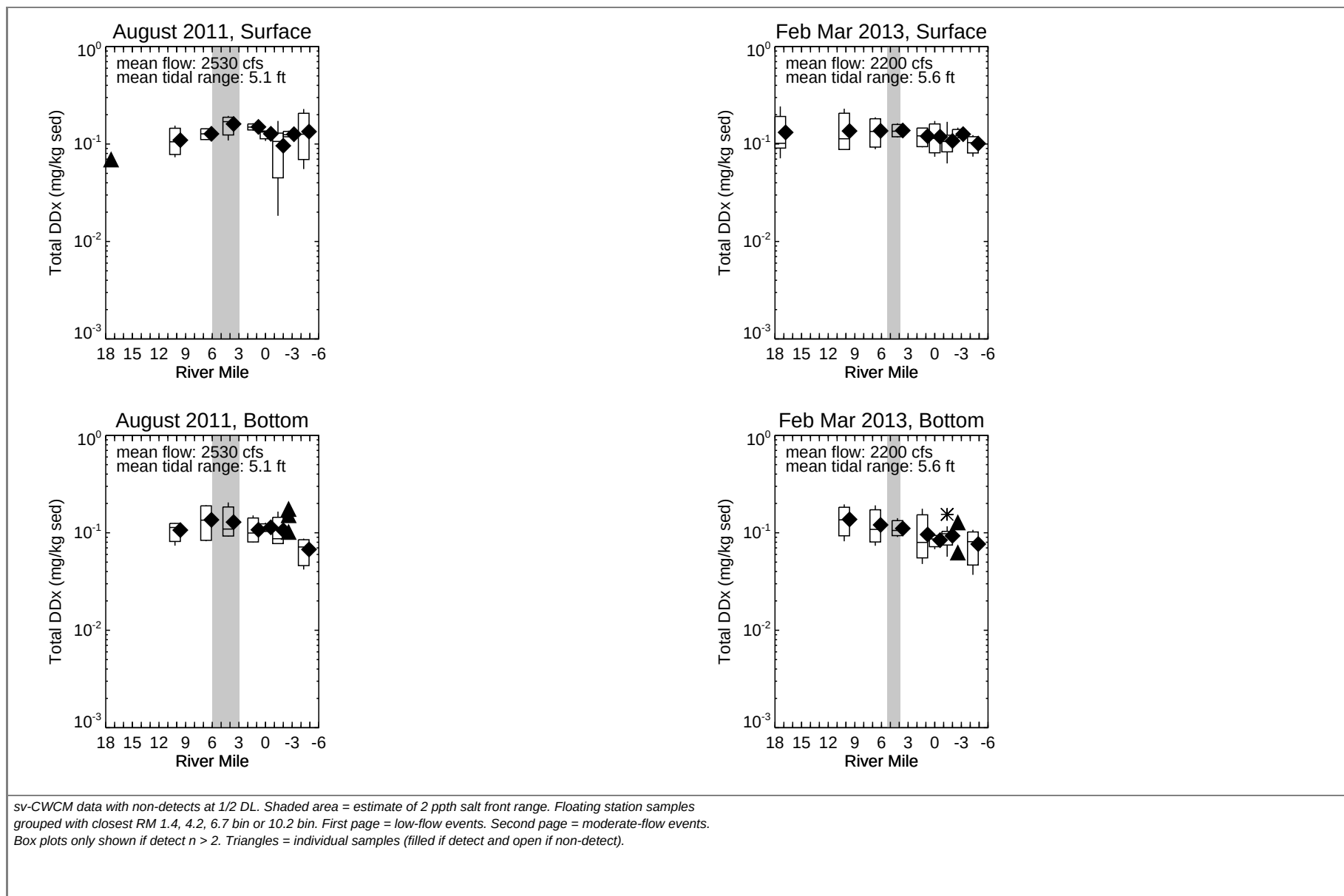
Figure 3-2h
Solids-normalized LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

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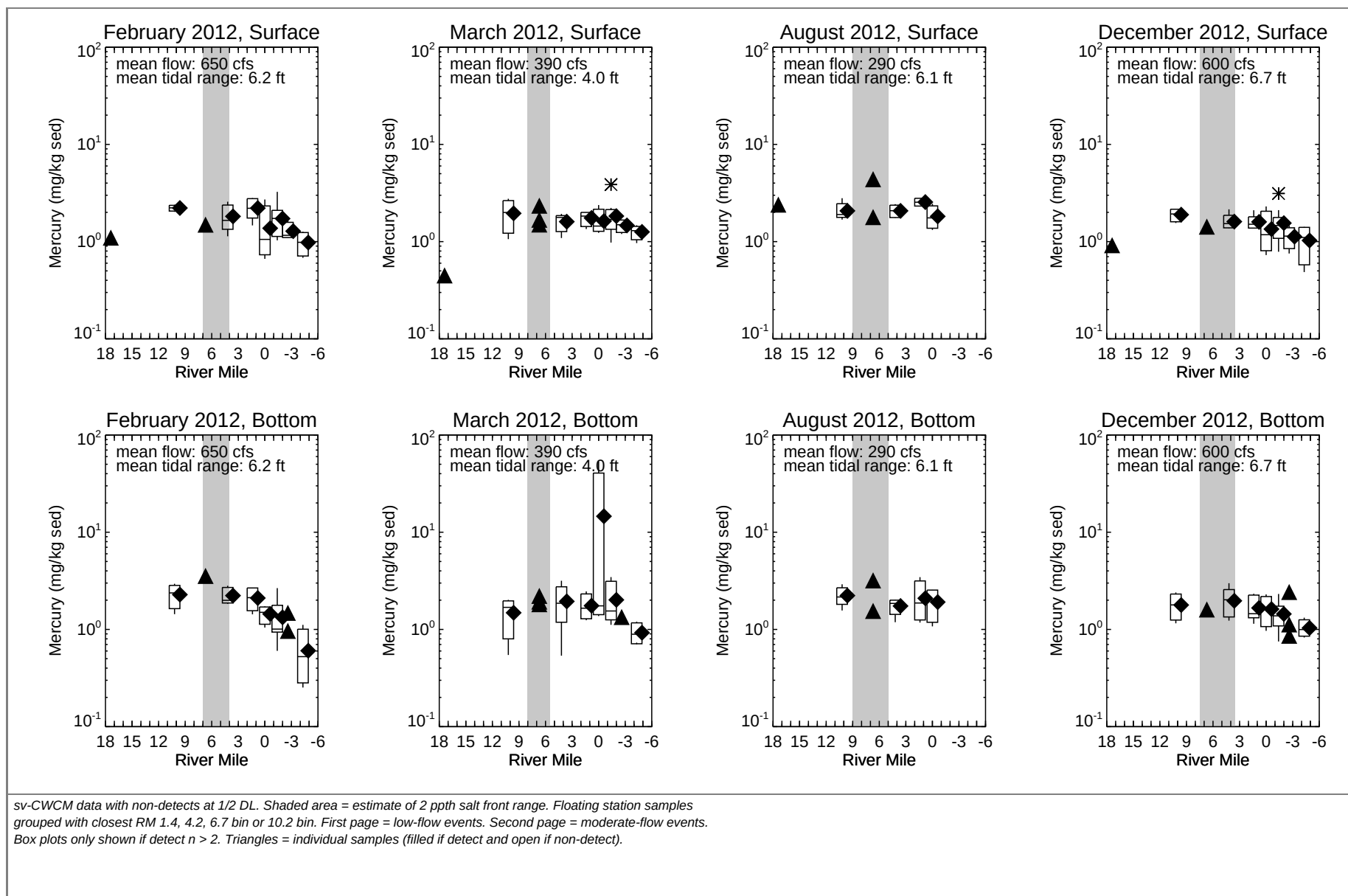
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Figure 3-2i
Solids-normalized Total DDx Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth
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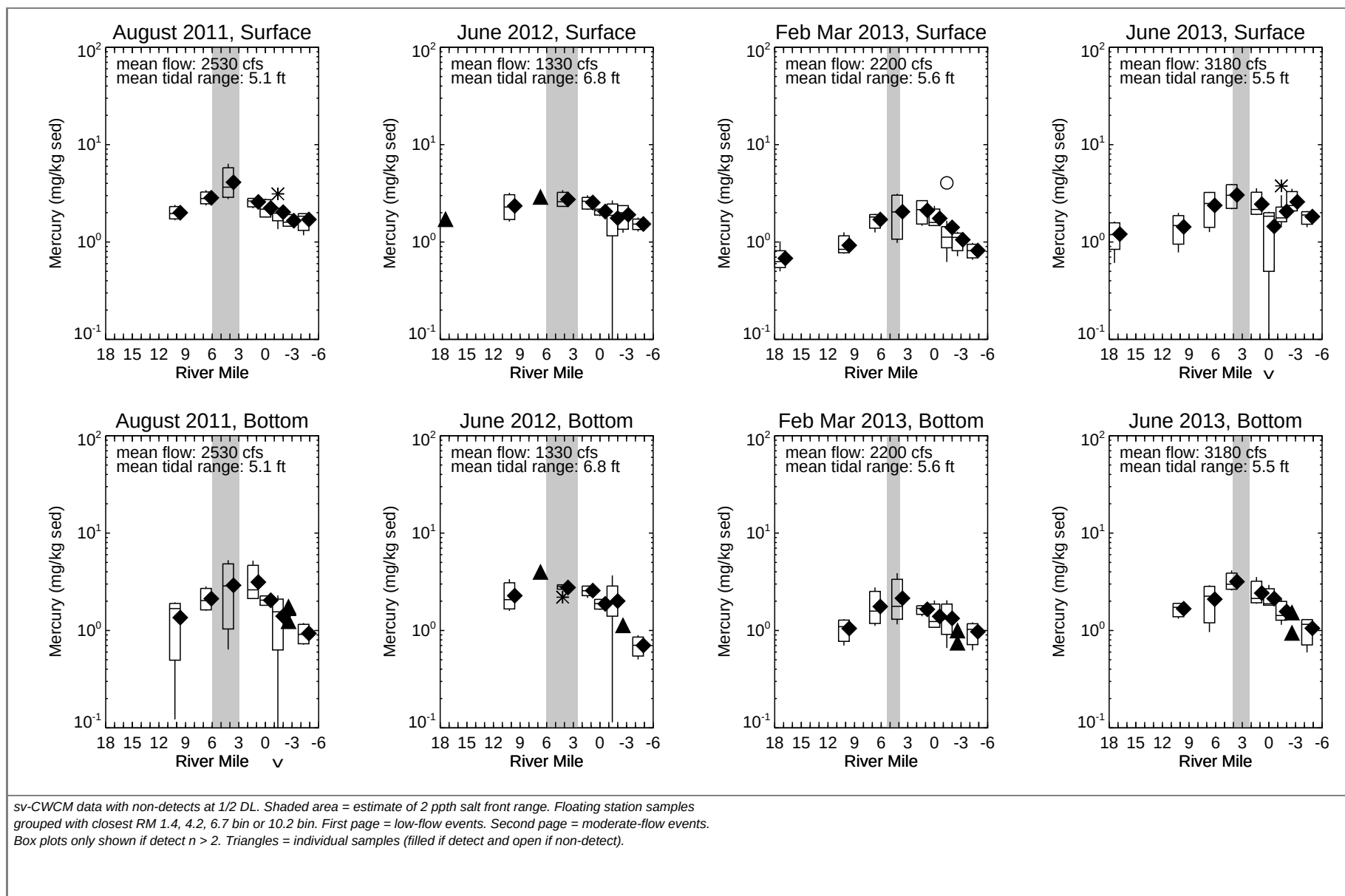
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Figure 3-2j
Solids-normalized Total DDx Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth
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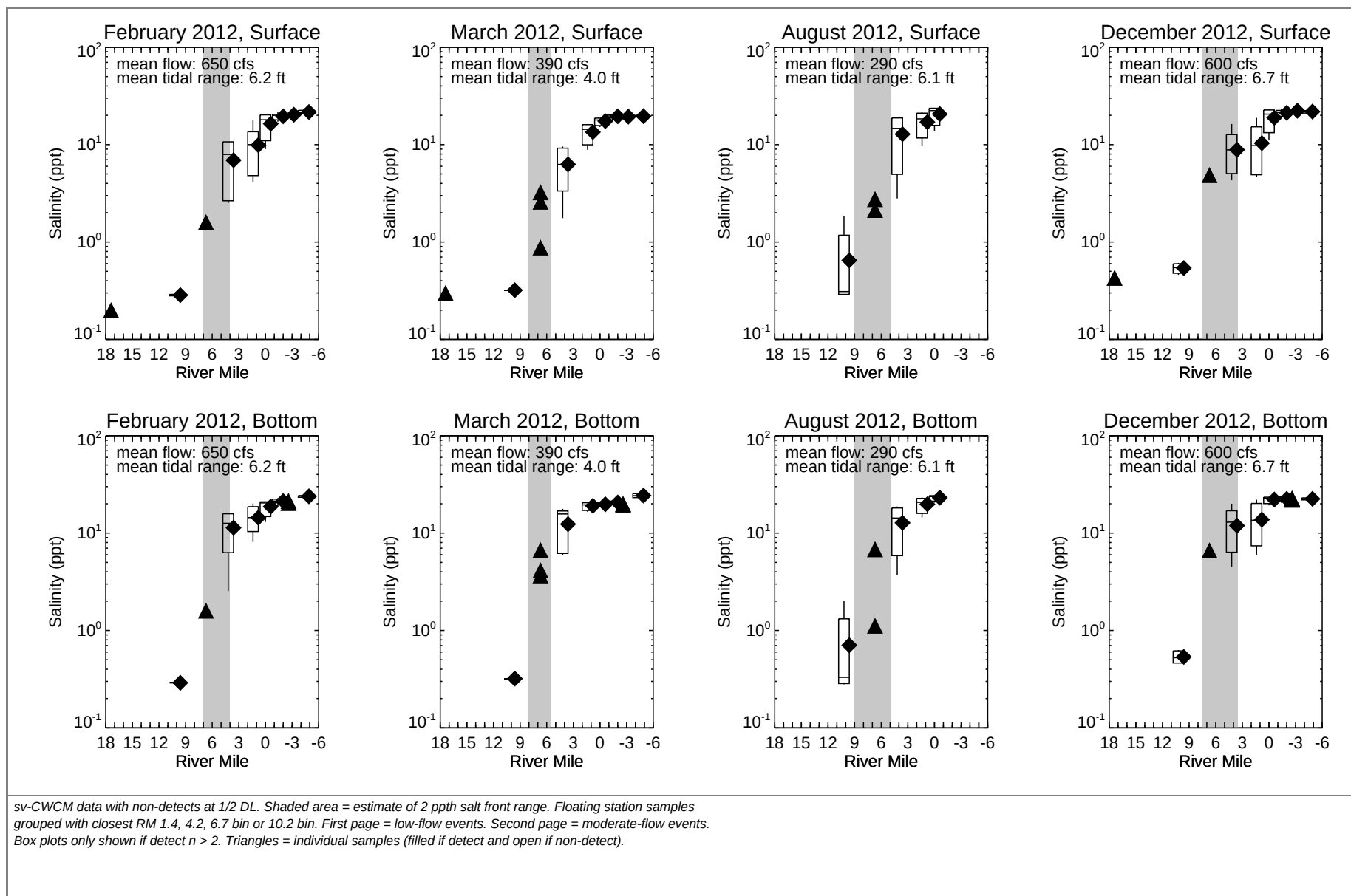
Figure 3-2k
Solids-normalized Mercury Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth
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Figure 3-21
Solids-normalized Mercury Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

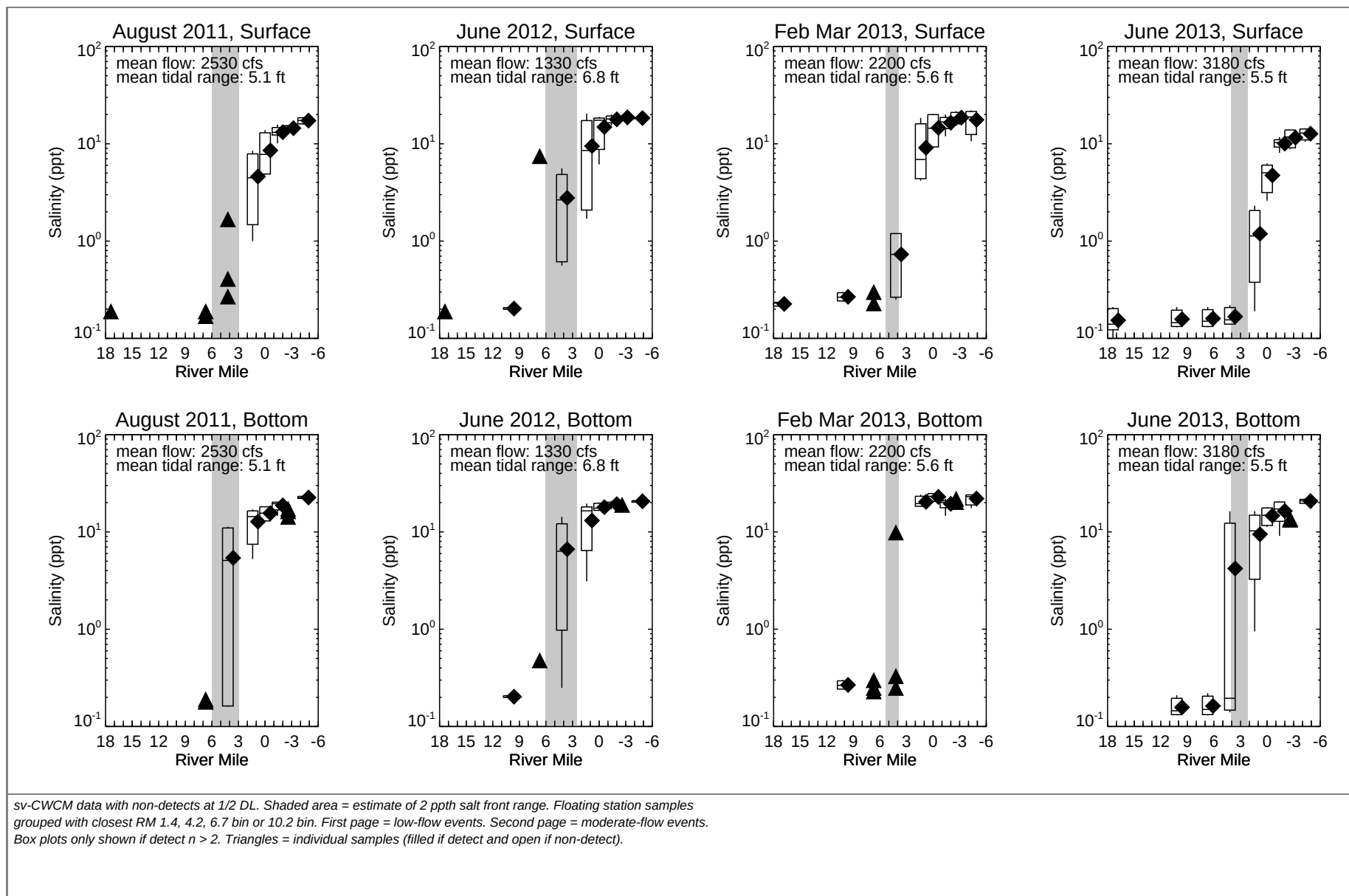
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Figure 3-3a
Salinity Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

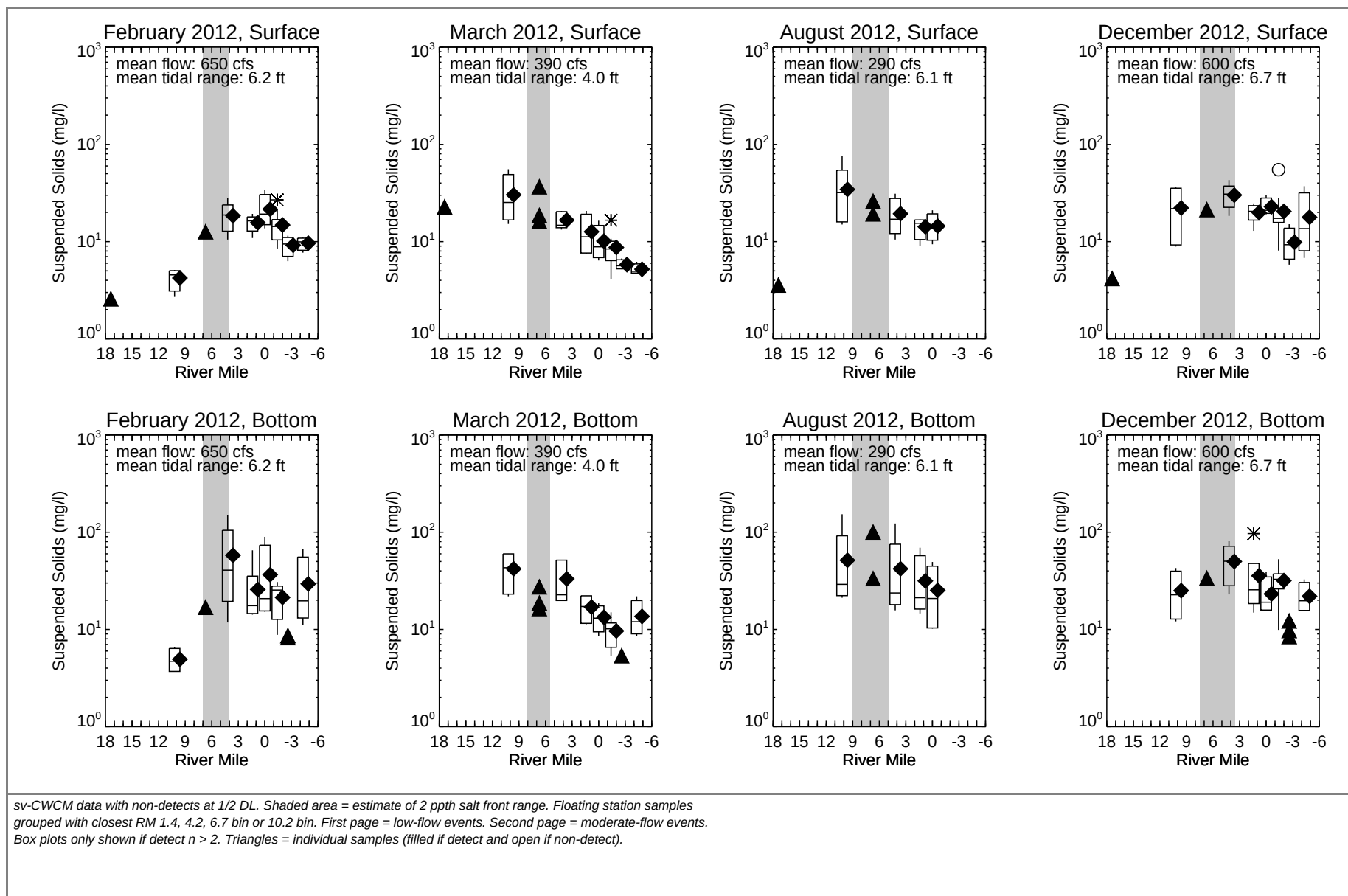
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Figure 3-3b
Salinity Water Column Concentration vs. River Mile for sv-CWCM Events, Split by Depth

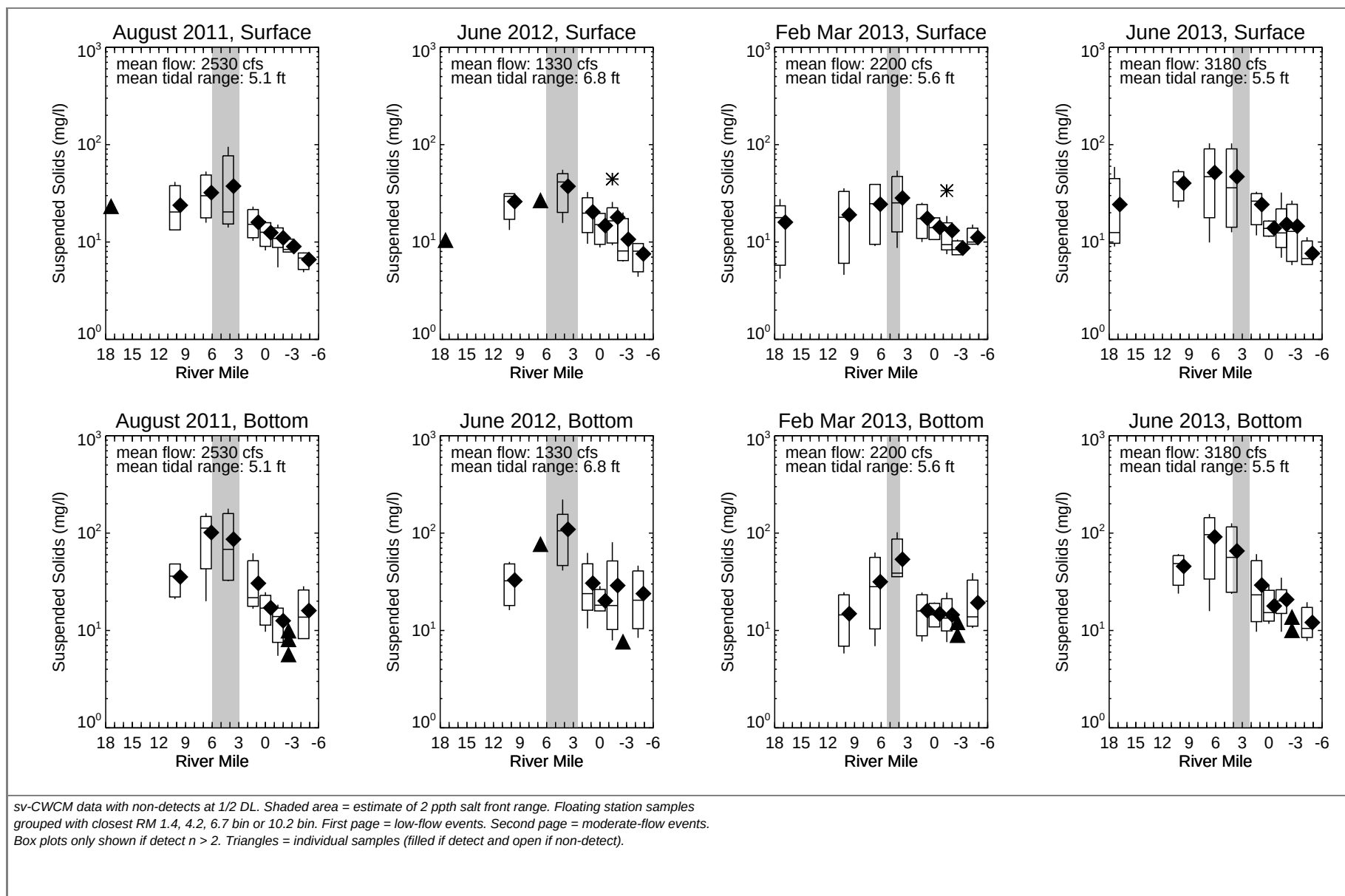
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Figure 3-3c
Suspended Solids Concentration vs. River Mile for sv-CWCM Events, Split by Depth

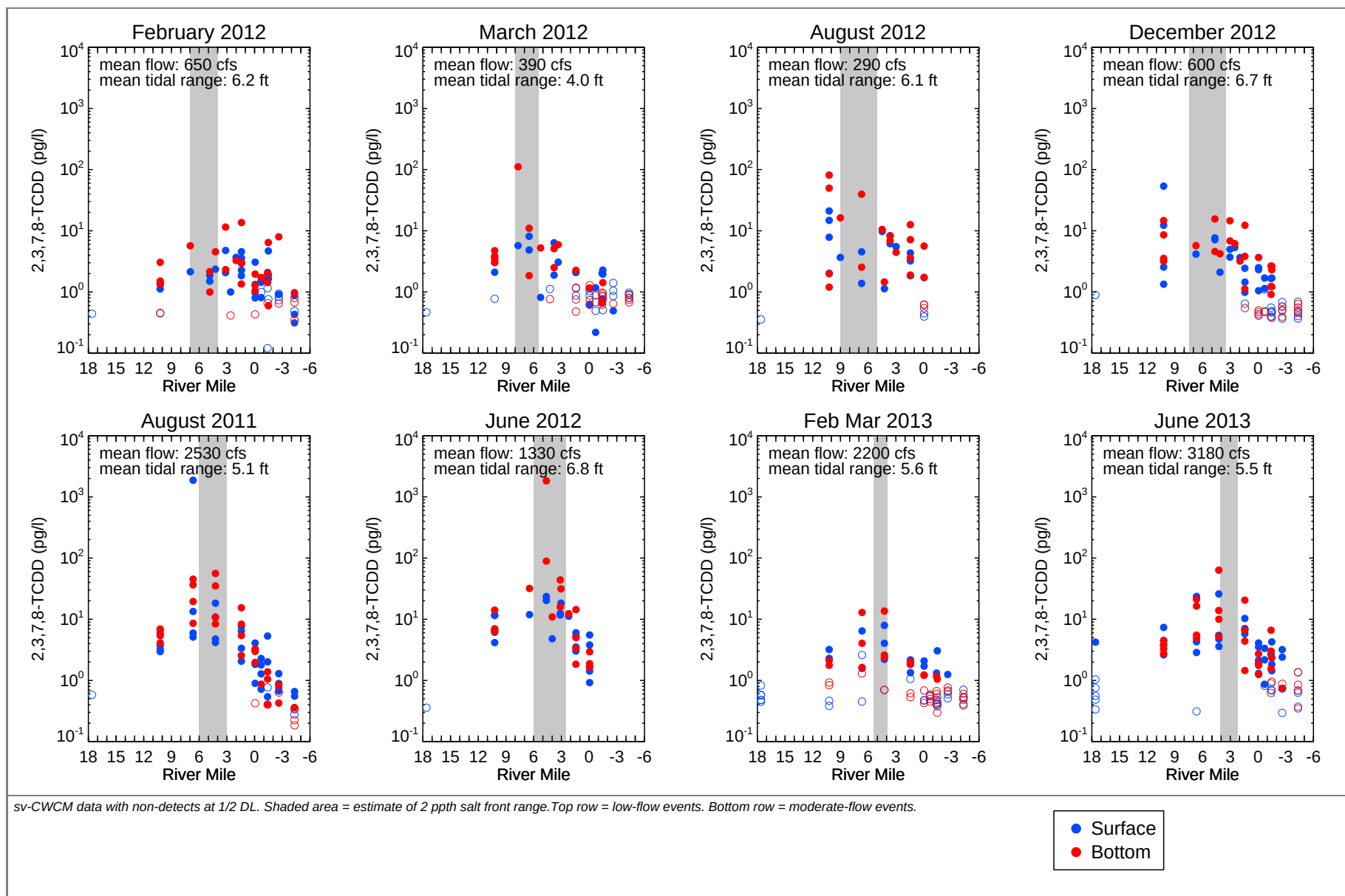
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Figure 3-3d
Suspended Solids Concentration vs. River Mile for sv-CWCM Events, Split by Depth

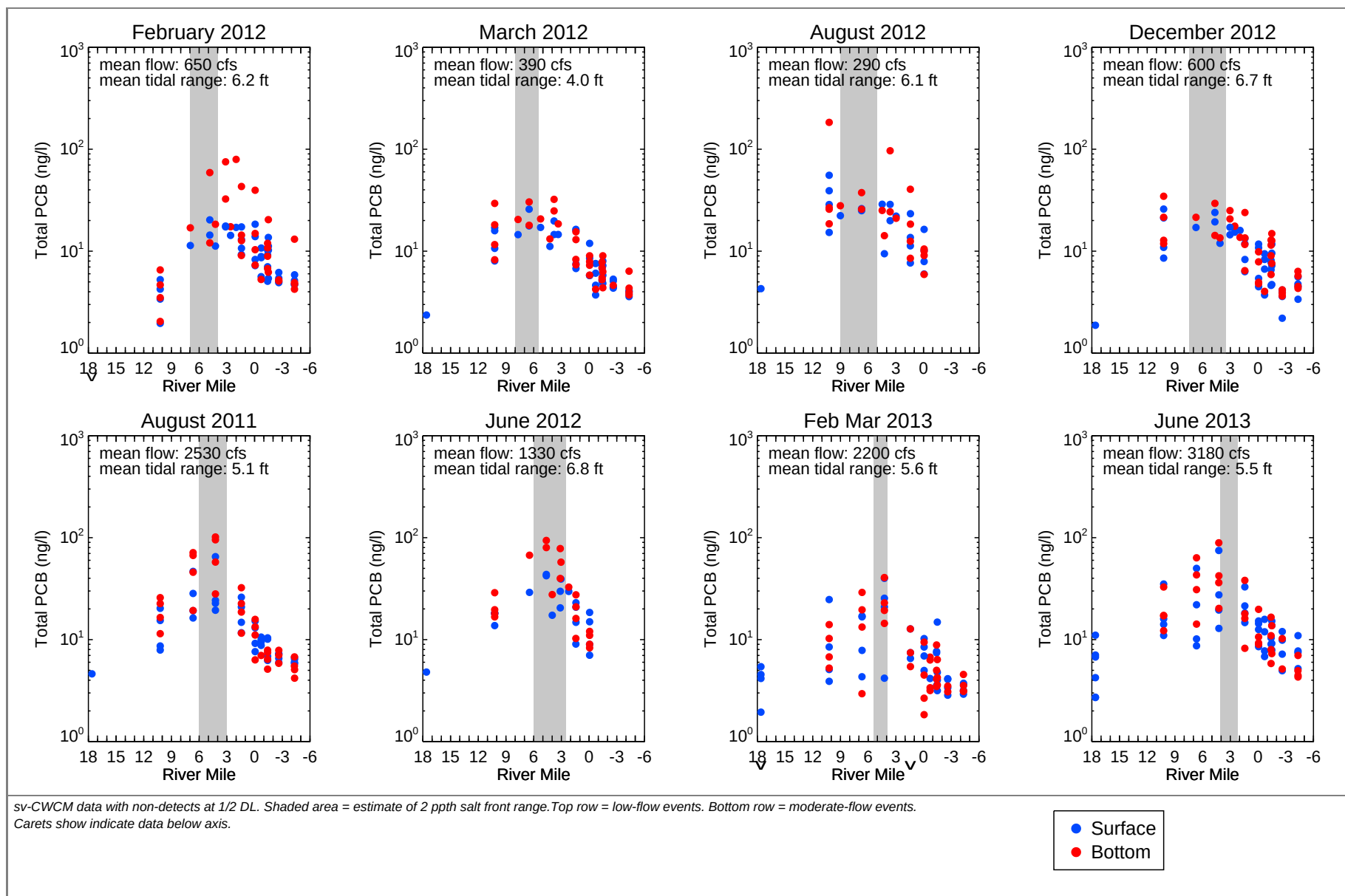
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Figure 3-4a
2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events

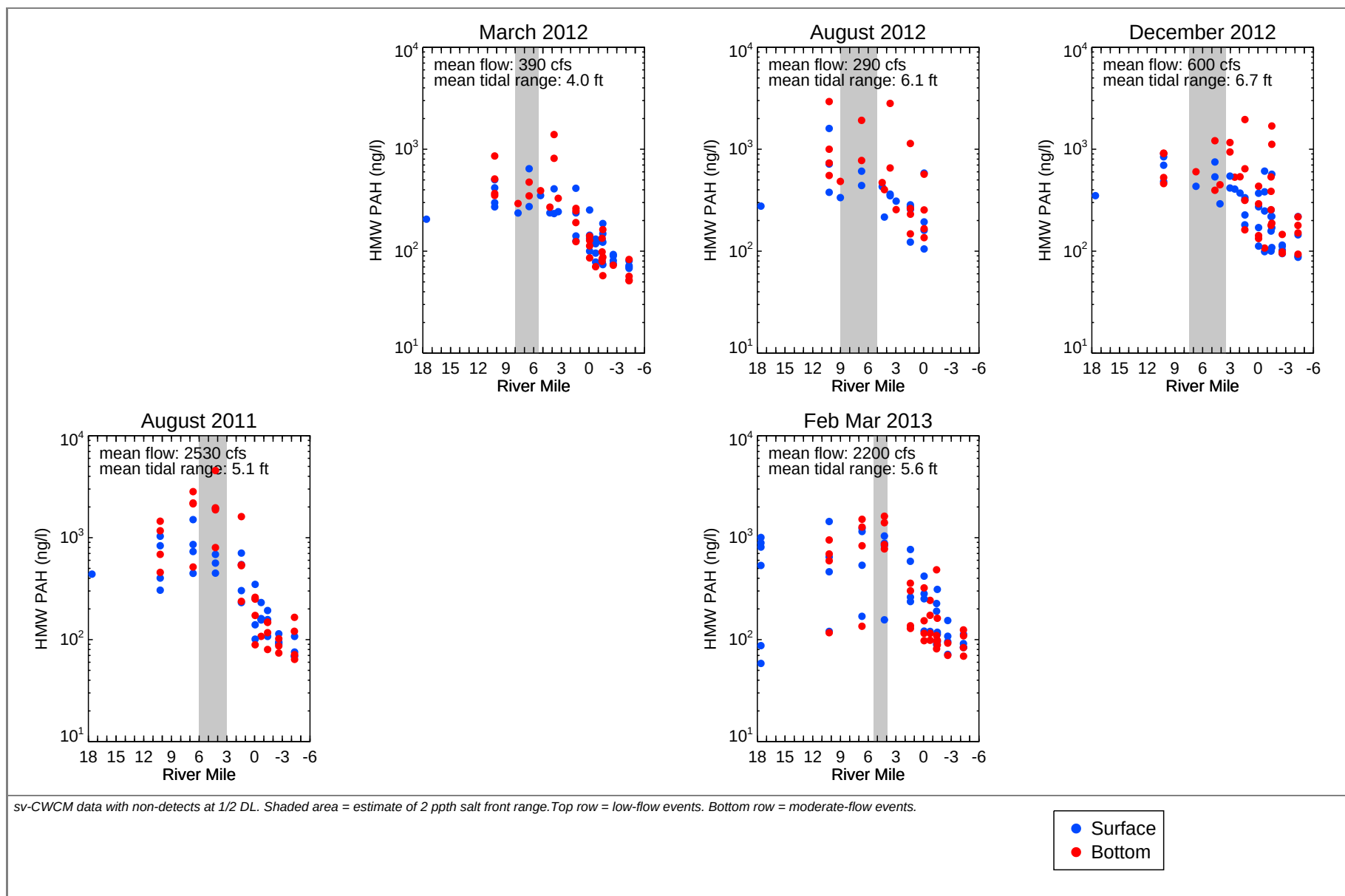
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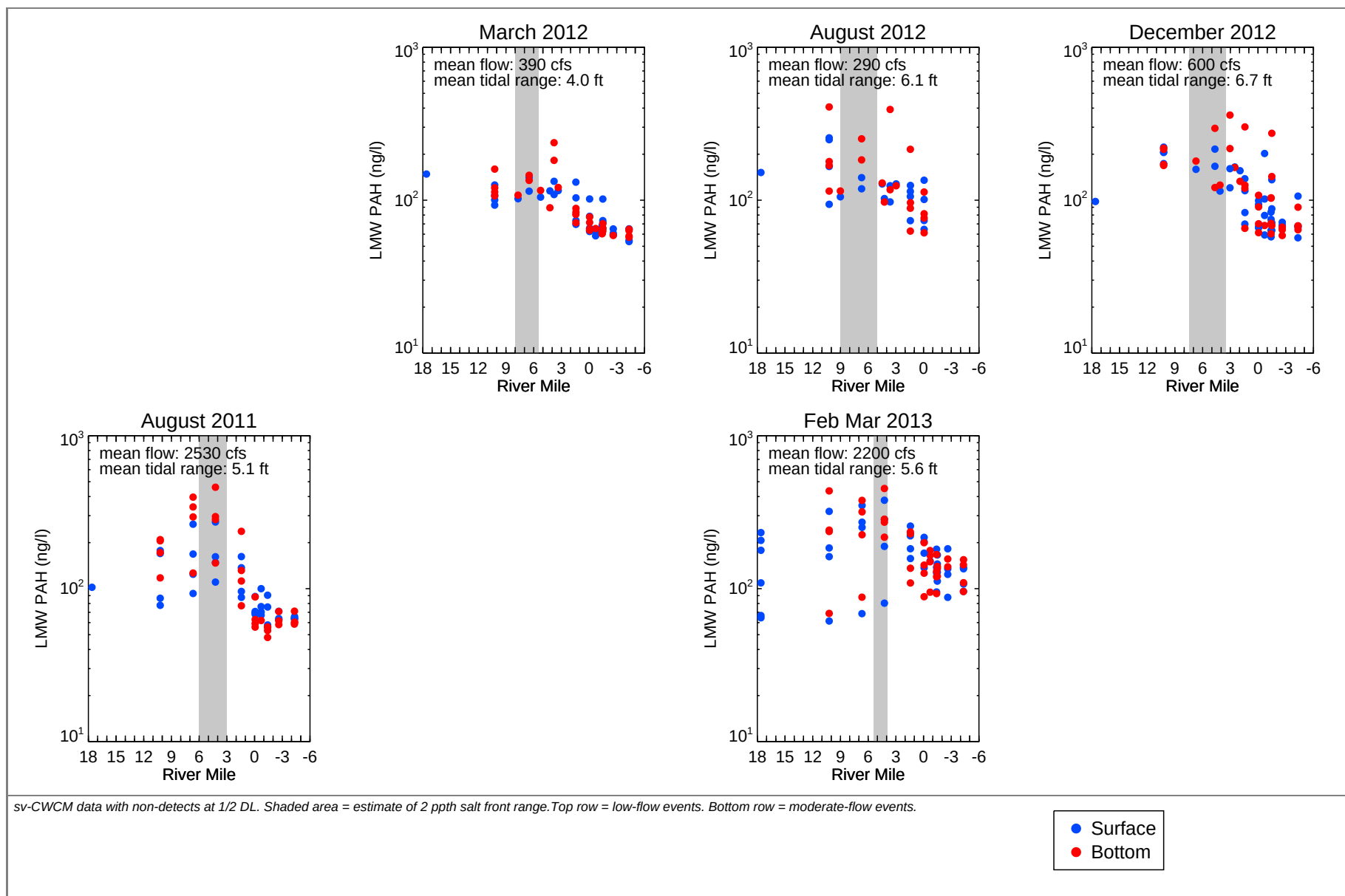
Figure 3-4b
Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events

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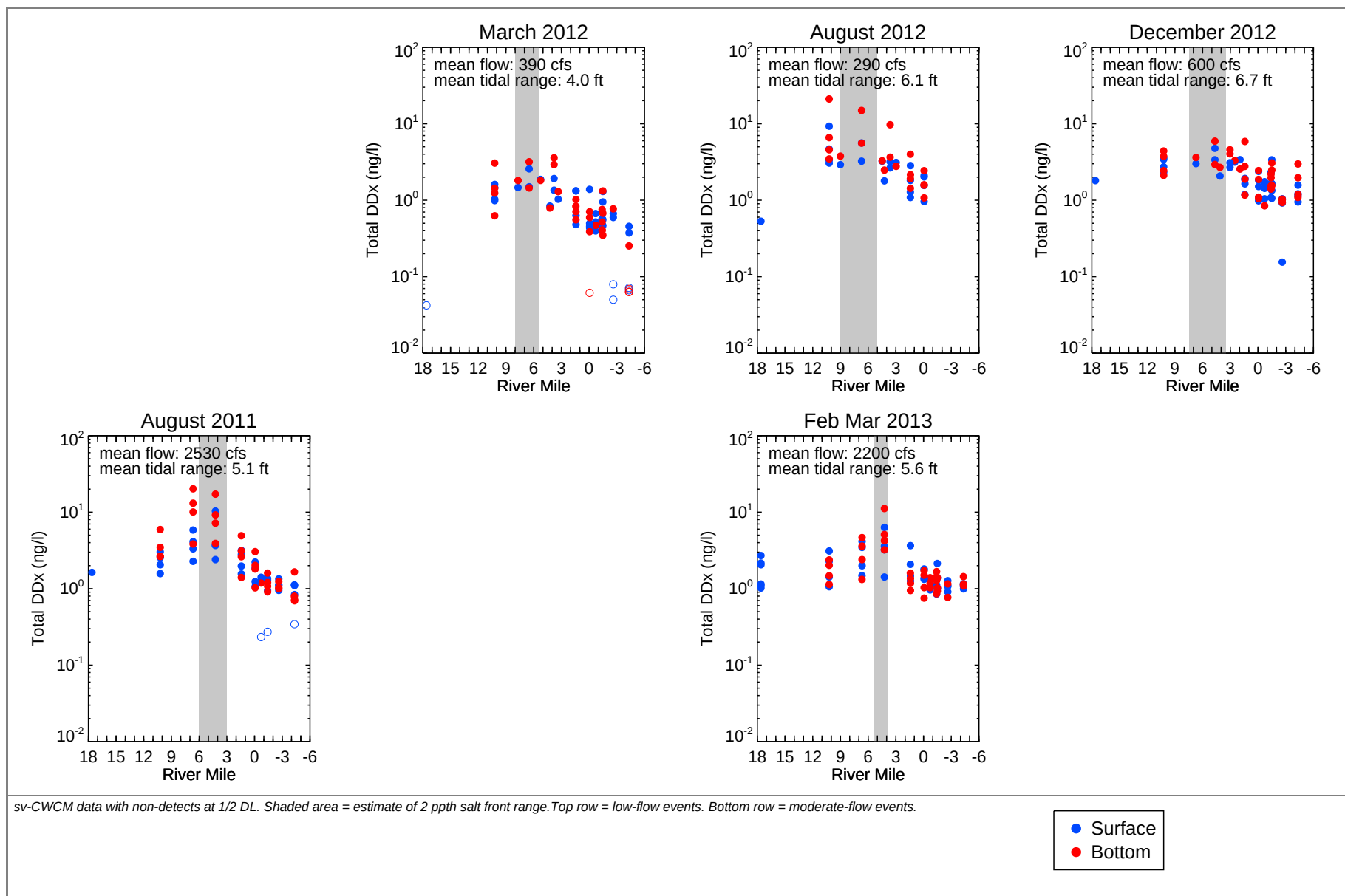
Figure 3-4c
HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events
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Figure 3-4d
LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events

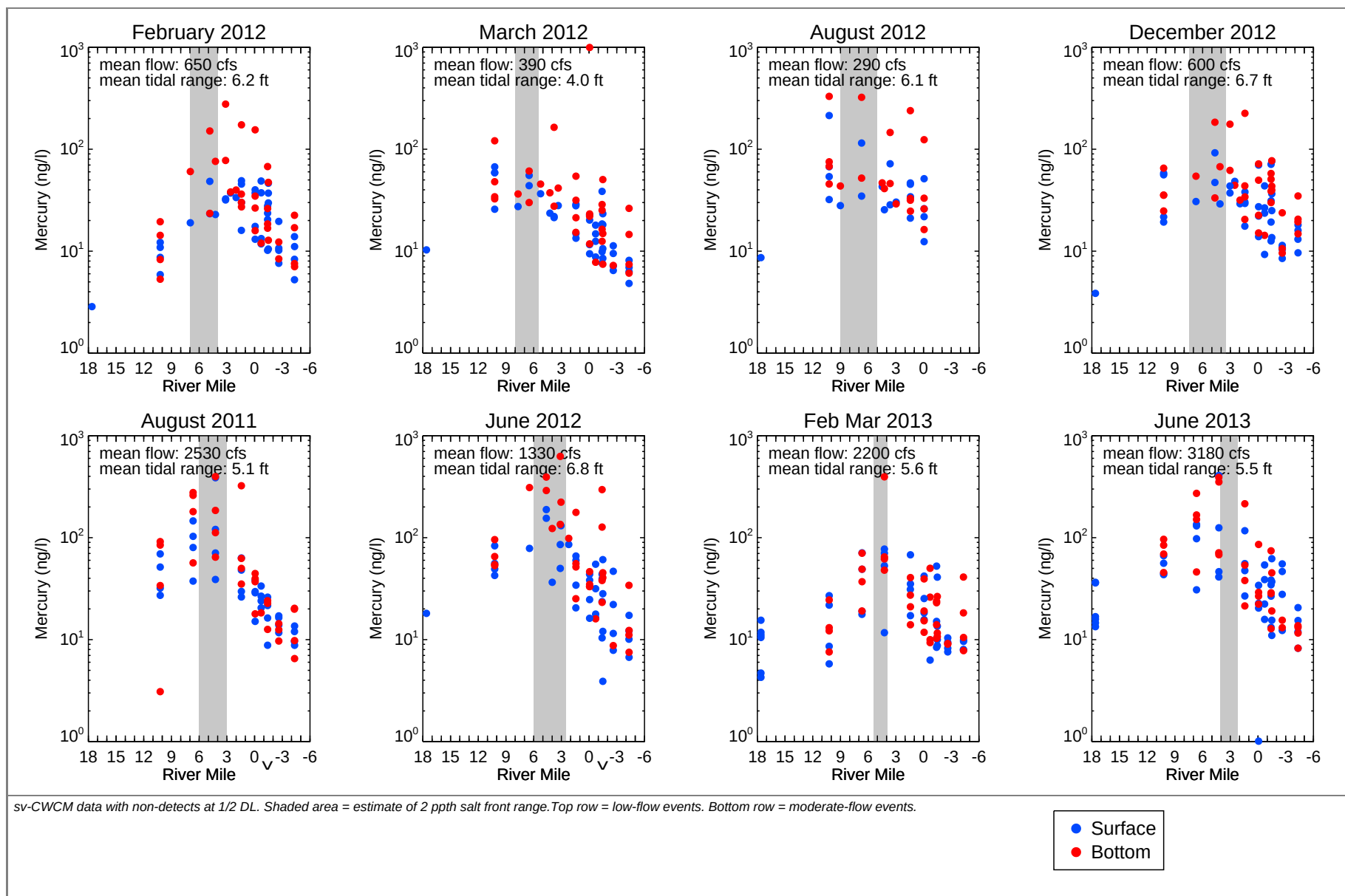
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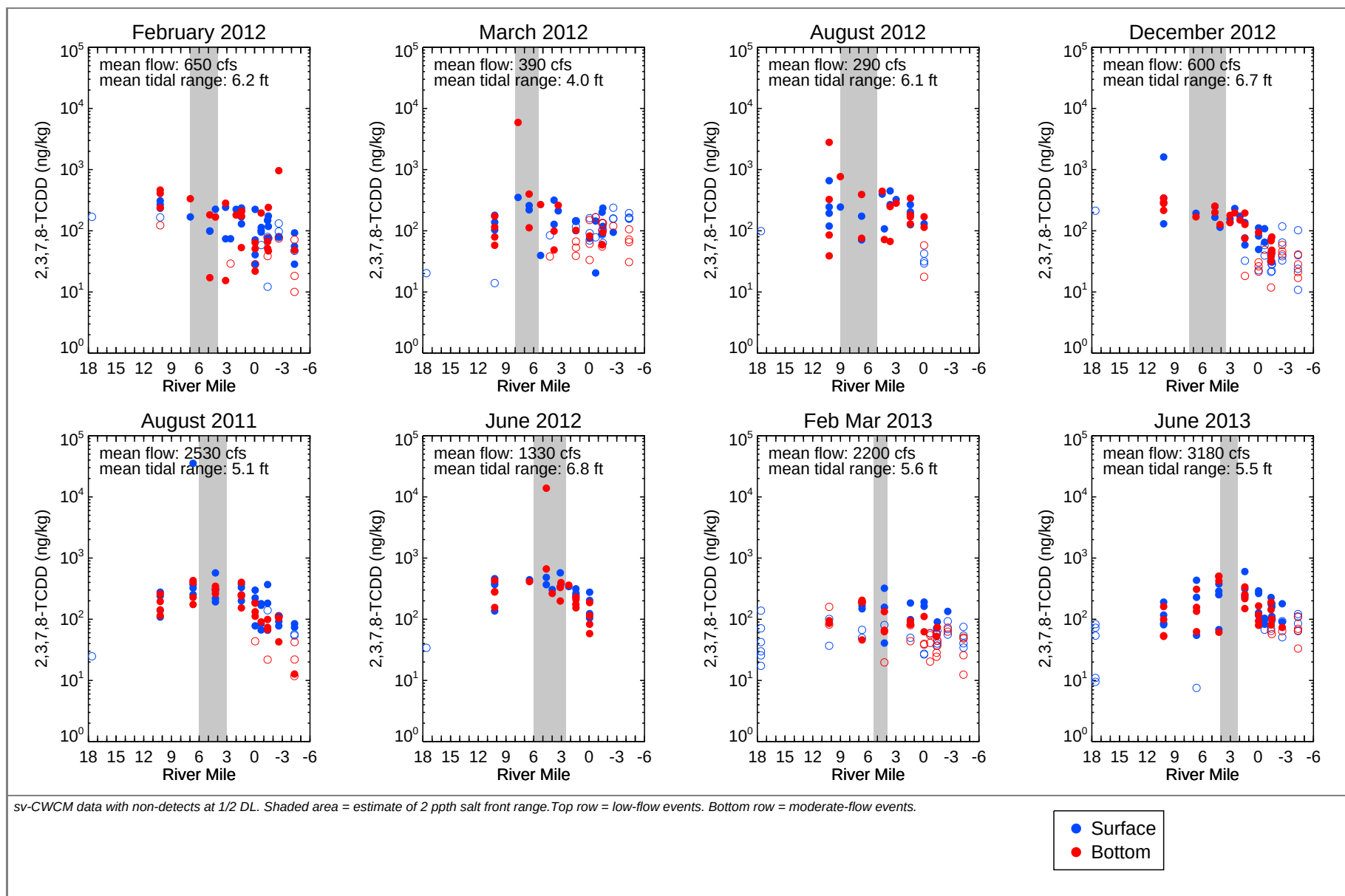
Figure 3-4e
Total DDx Water Column Concentration vs. River Mile for sv-CWCM Events

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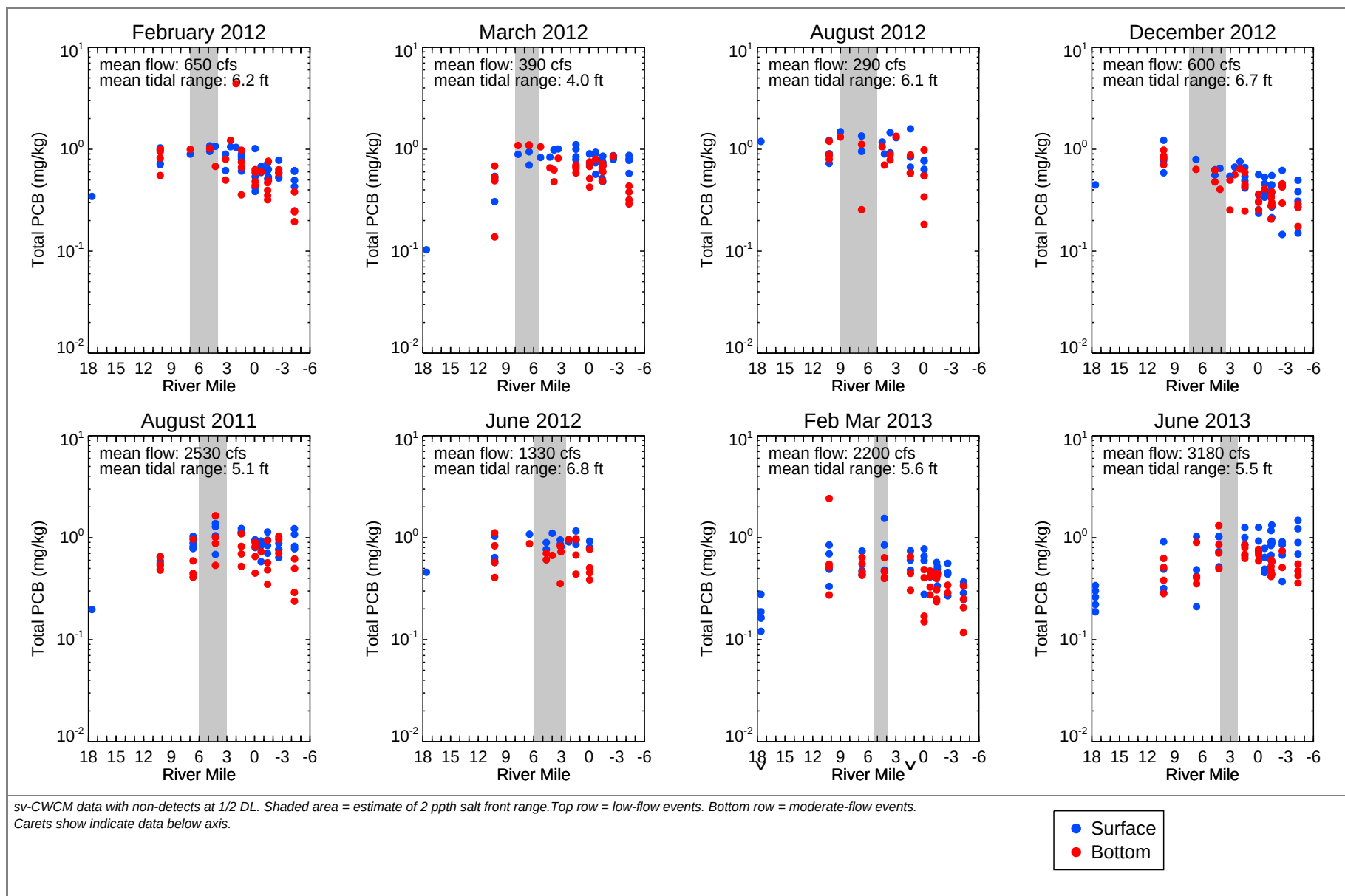
Figure 3-4f
Mercury Water Column Concentration vs. River Mile for sv-CWCM Events
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Figure 3-5a
Solids-Normalized 2,3,7,8-TCDD Water Column Concentration vs. River Mile for sv-CWCM Events

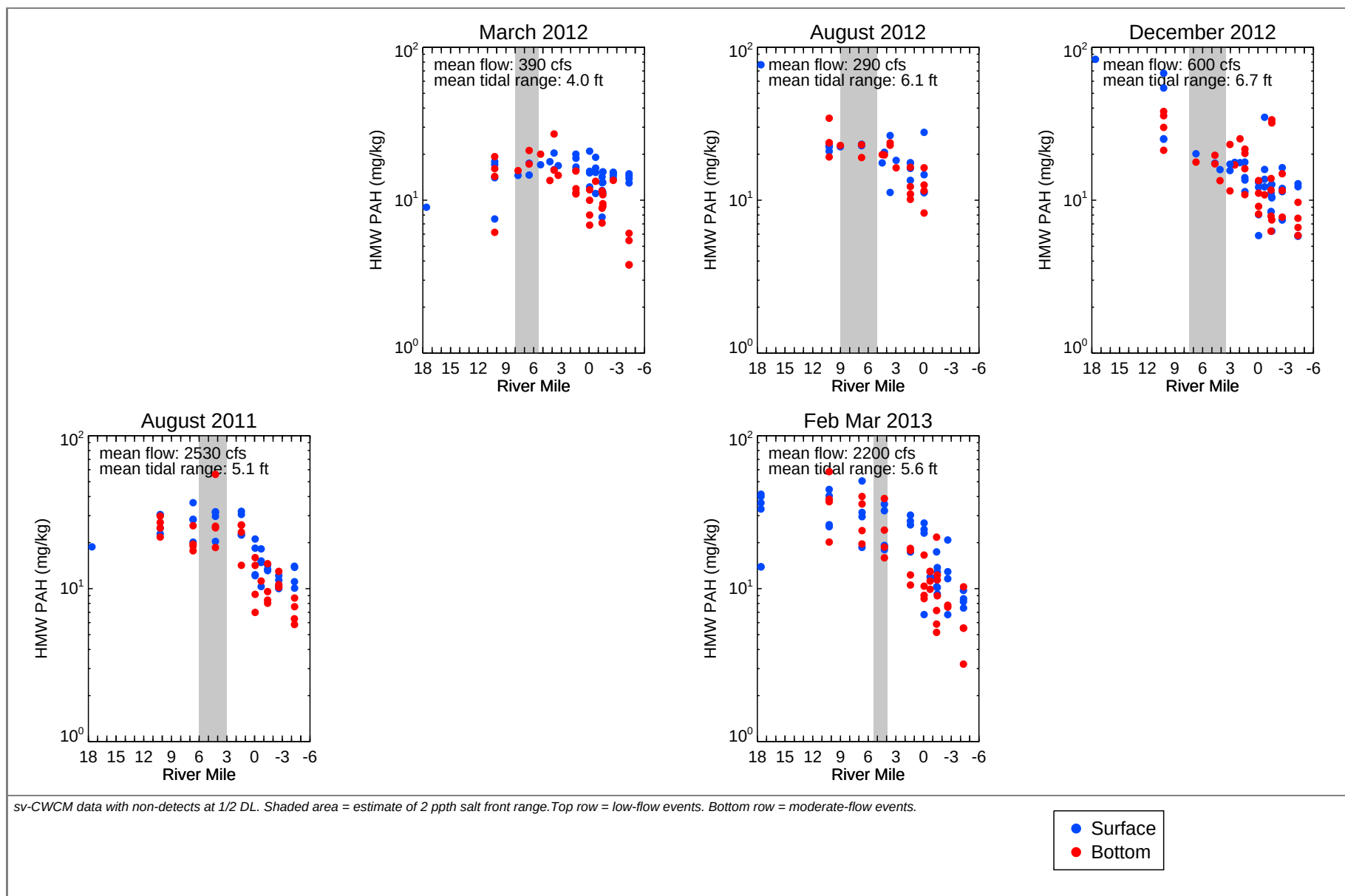
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Figure 3-5b
Solids-Normalized Total PCB Water Column Concentration vs. River Mile for sv-CWCM Events

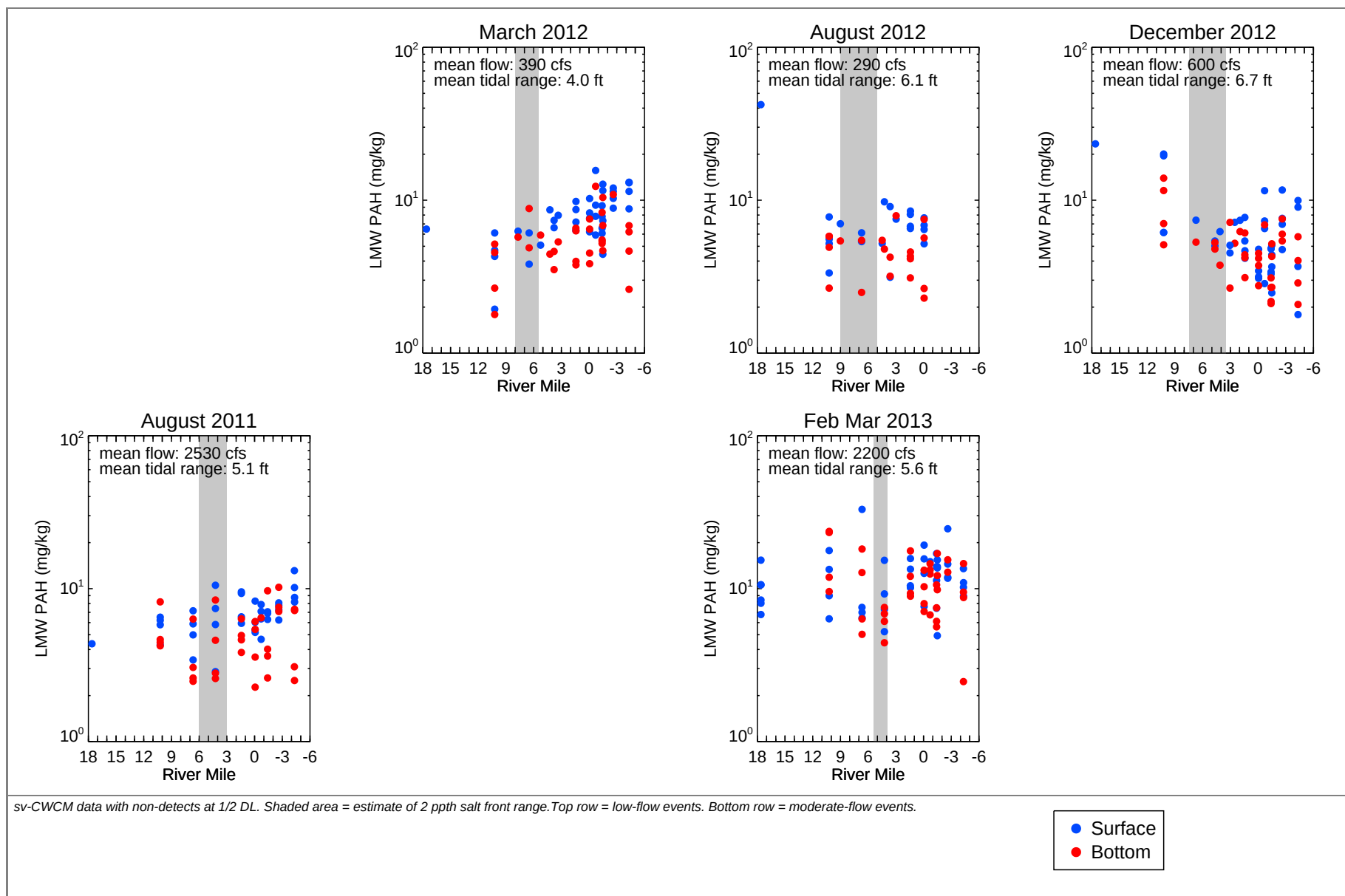
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Figure 3-5c
Solids-Normalized HMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events

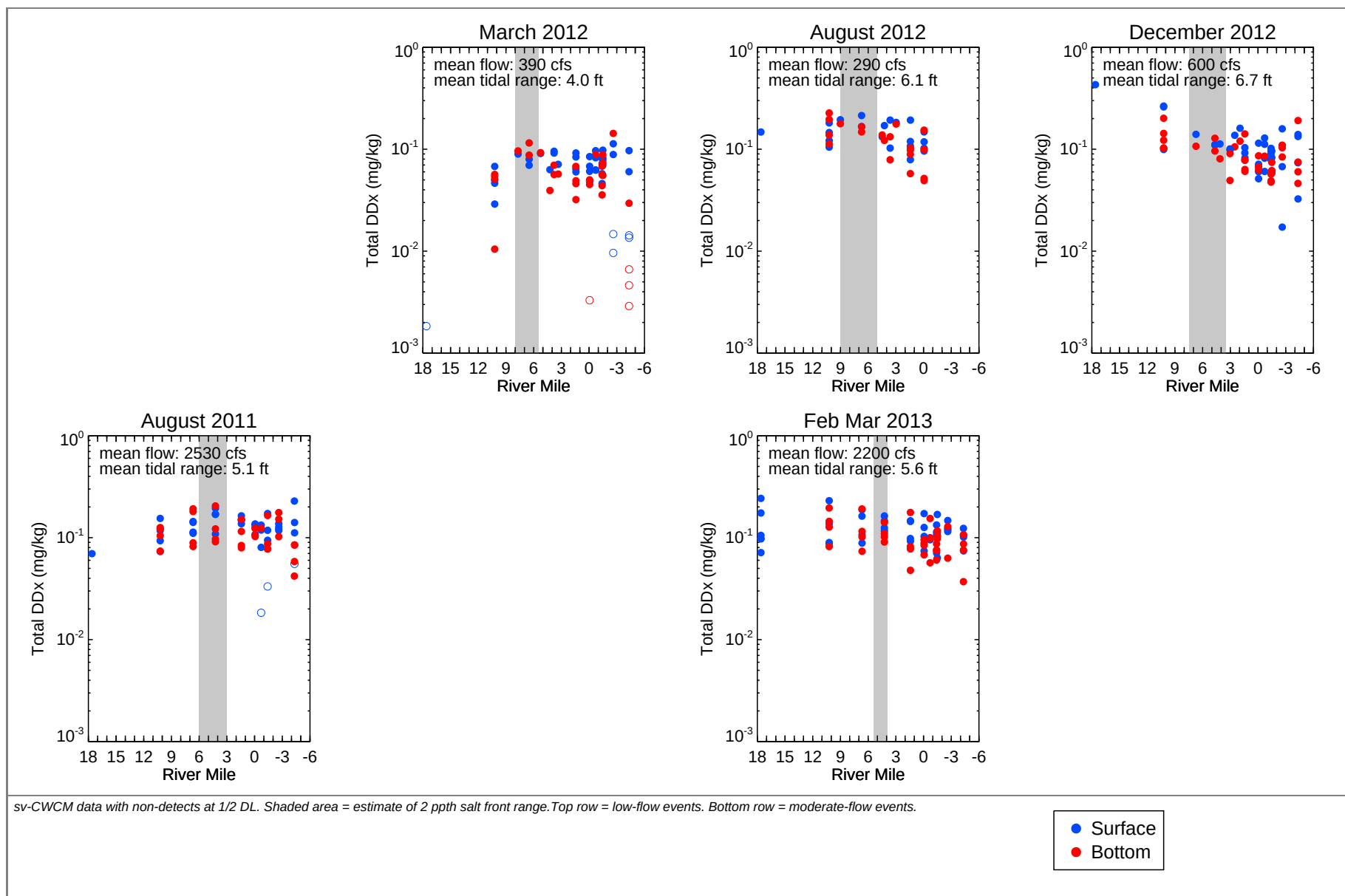
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Figure 3-5d
Solids-Normalized LMW PAH Water Column Concentration vs. River Mile for sv-CWCM Events

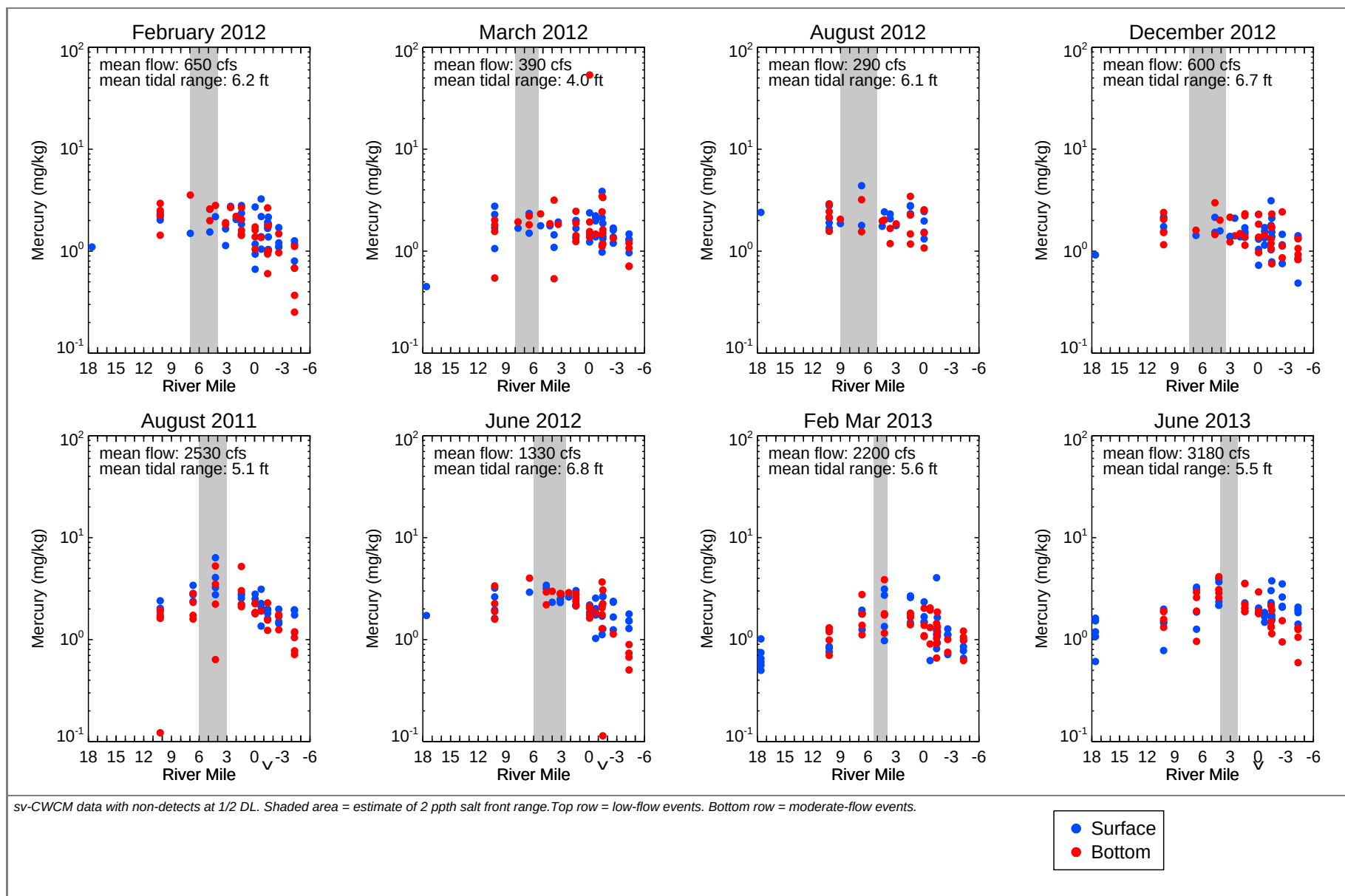
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Figure 3-5e
Solids-Normalized Total DDX Water Column Concentration vs. River Mile for sv-CWCM Events

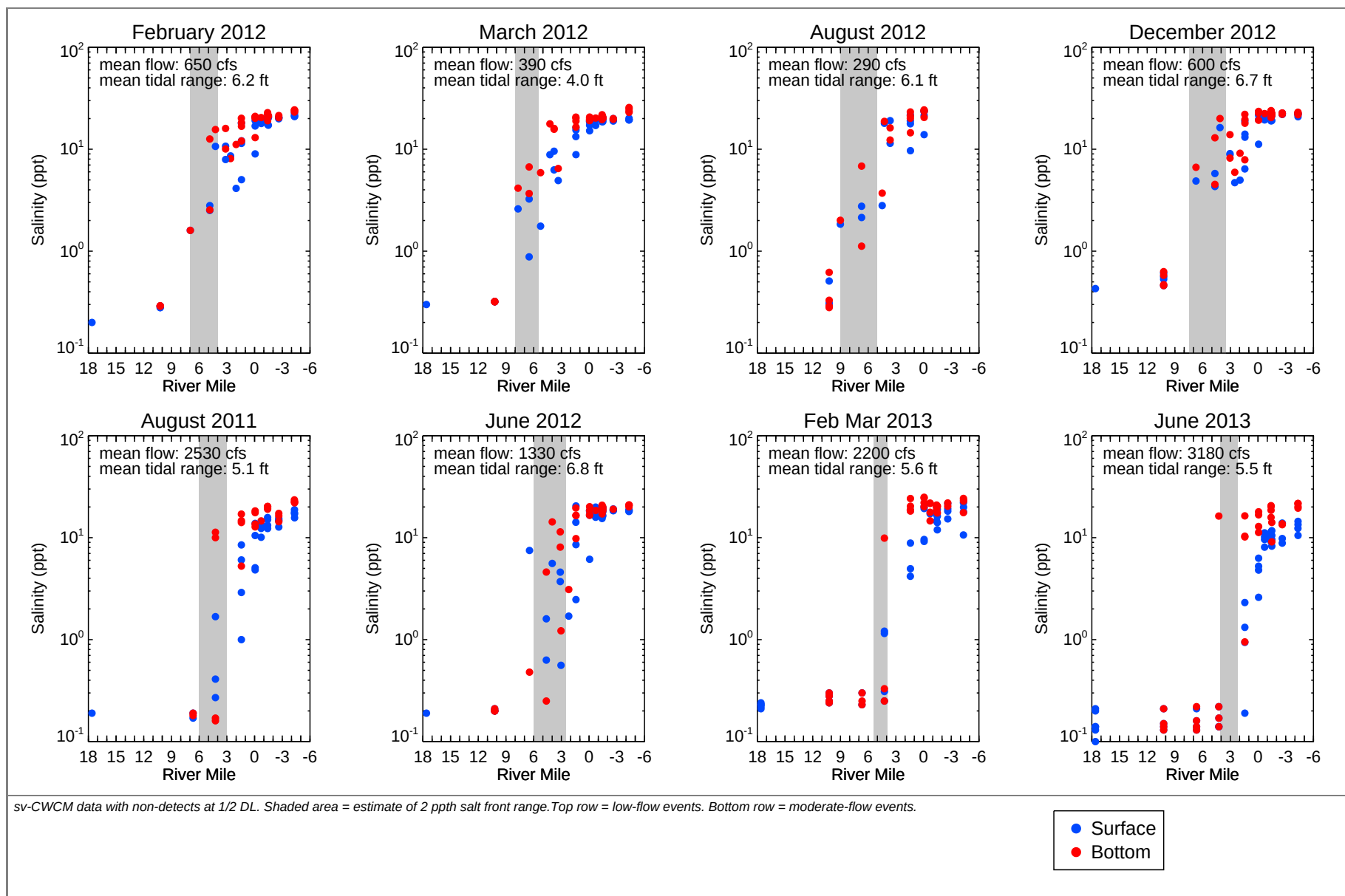
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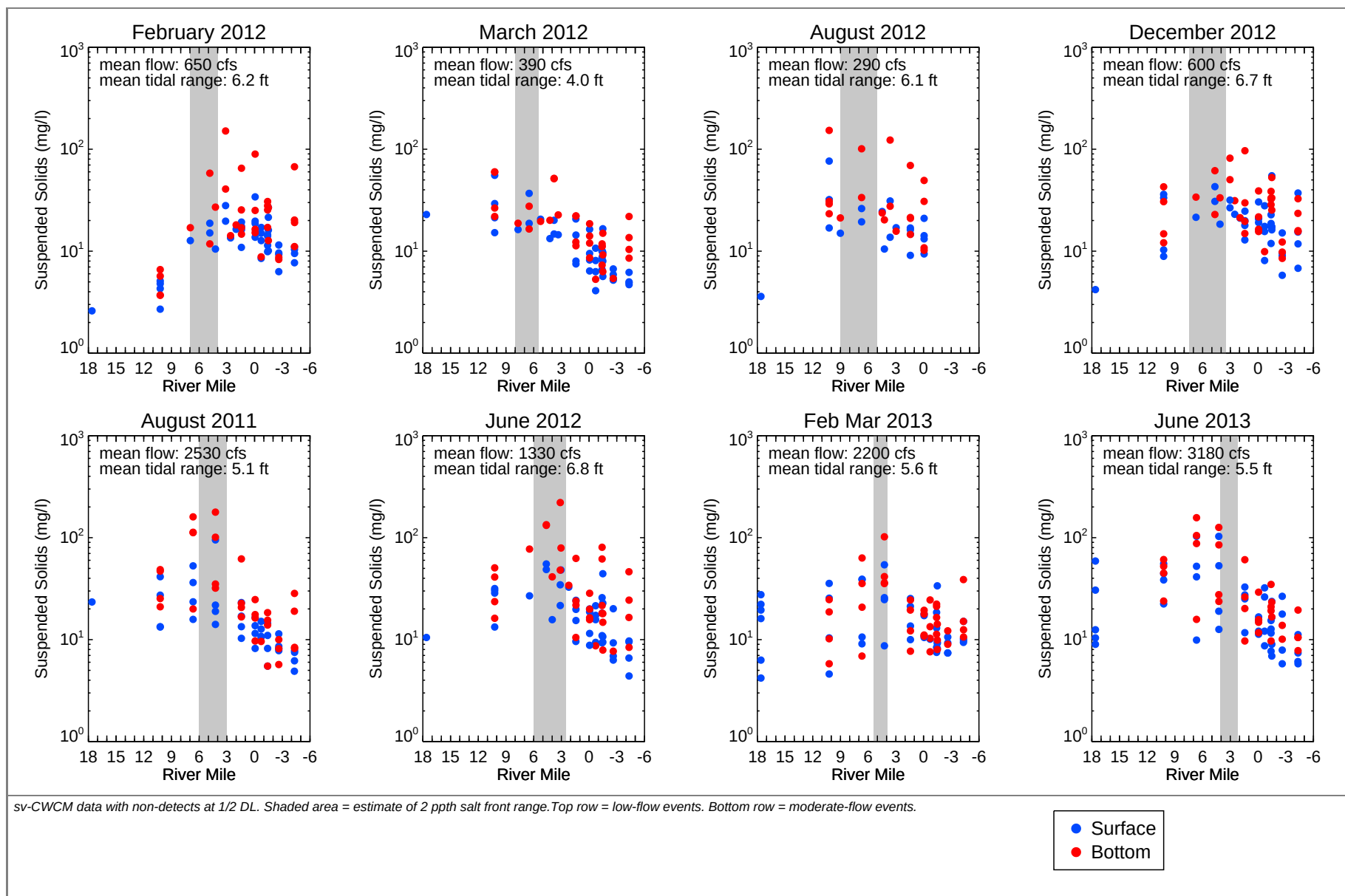
Figure 3-5f
Solids-Normalized Mercury Water Column Concentration vs. River Mile for sv-CWCM Events

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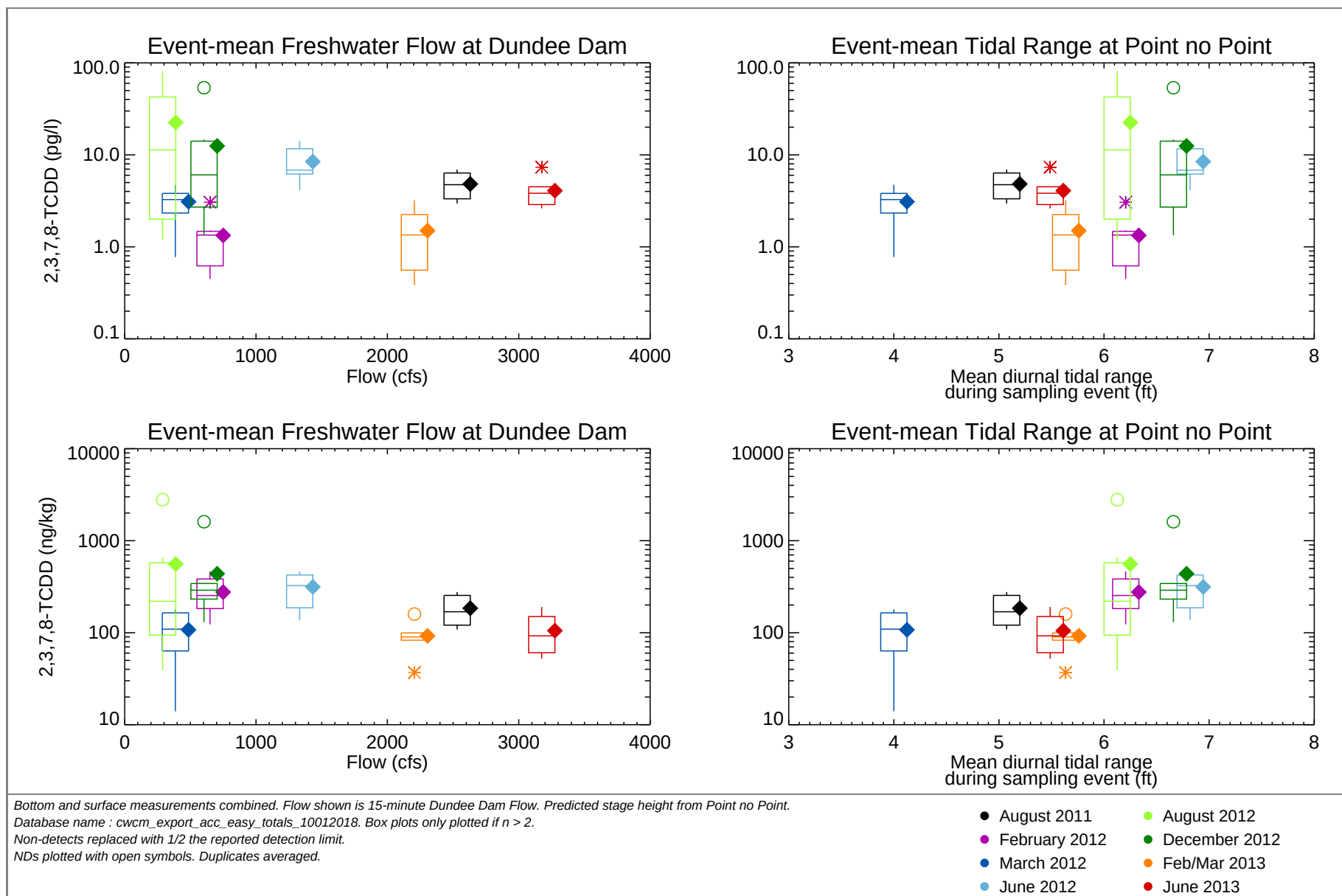
Figure 3-6a
Salinity Water Column Concentration vs. River Mile for sv-CWCM Events
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Figure 3-6b
Suspended Solids Concentration vs. River Mile for sv-CWCM events

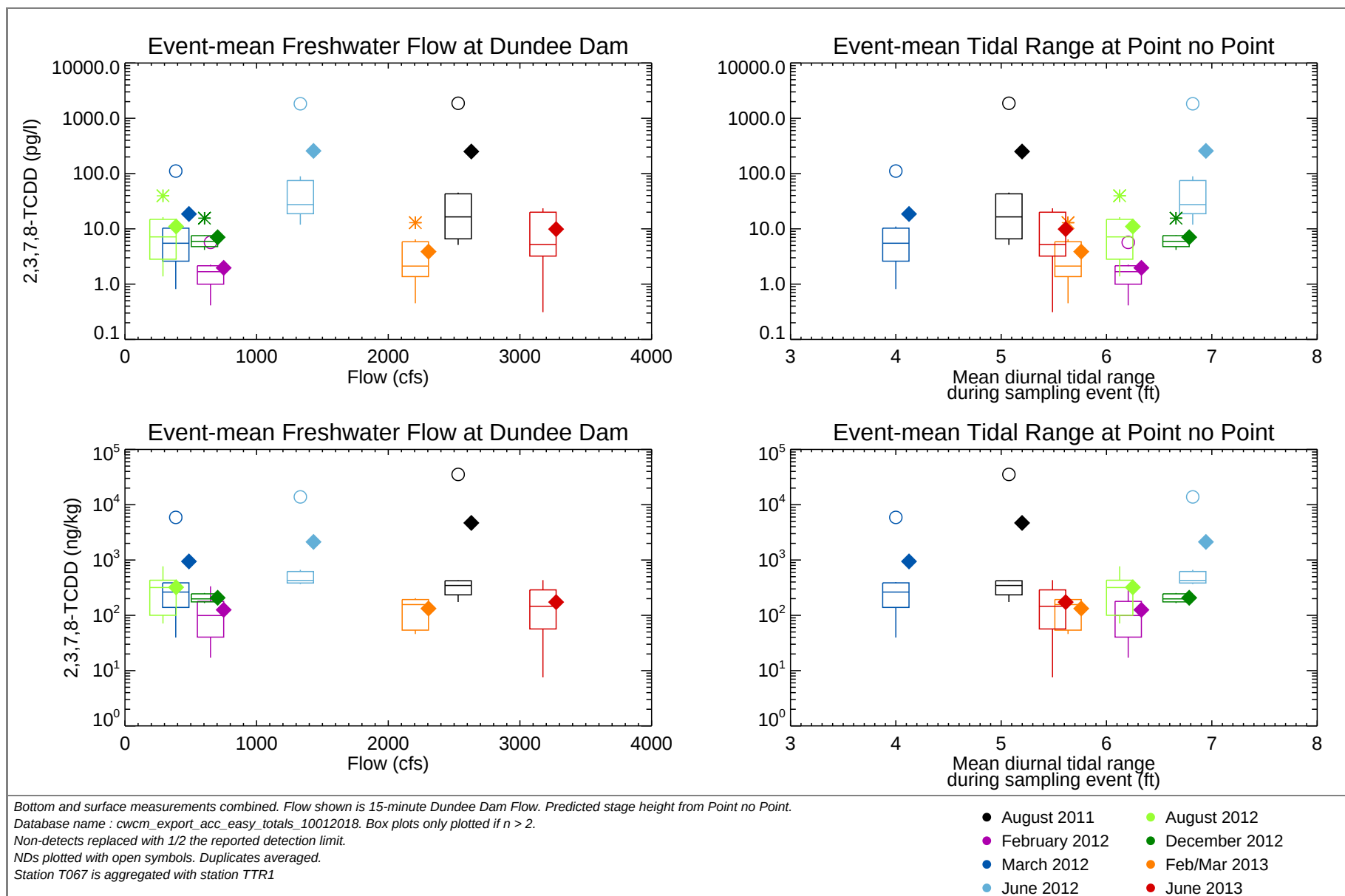
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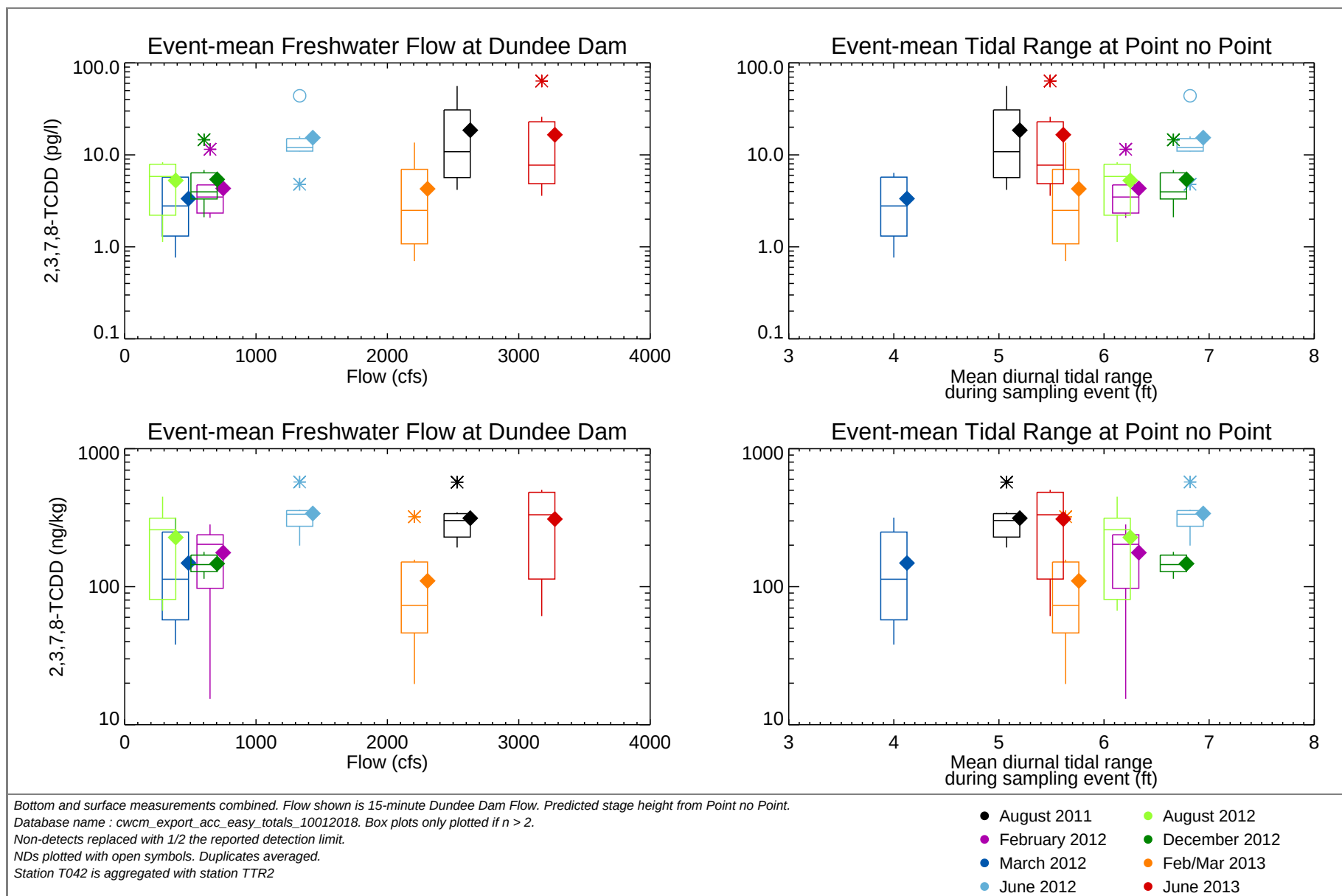
Figure 4-1a
Station T102: Water Column 2,3,7,8-TCDD Concentrations vs. Mean Flow and Tidal Range

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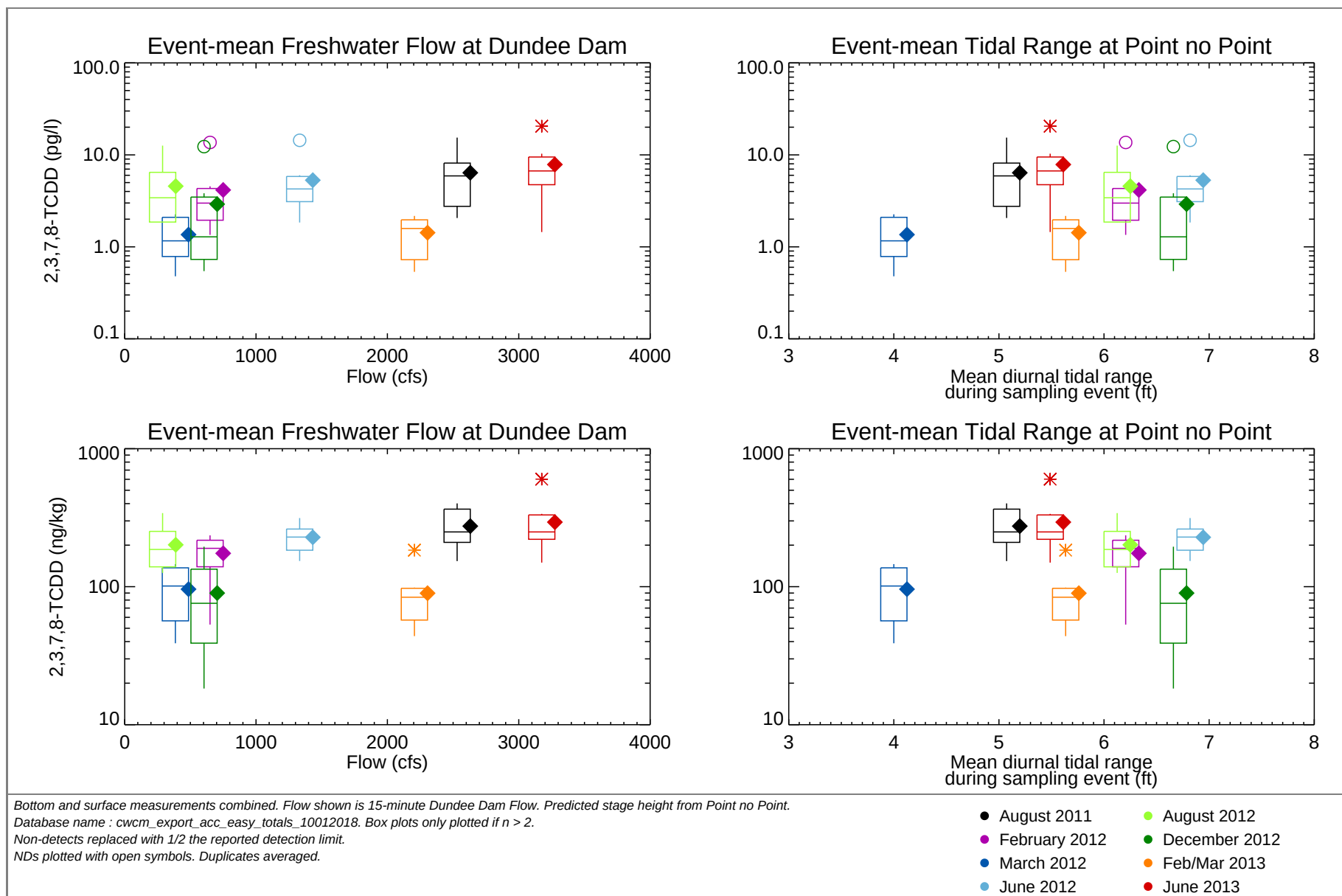
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Figure 4-1b
Station TTR1: Water Column 2,3,7,8-TCDD Concentrations vs. Mean Flow and Tidal Range



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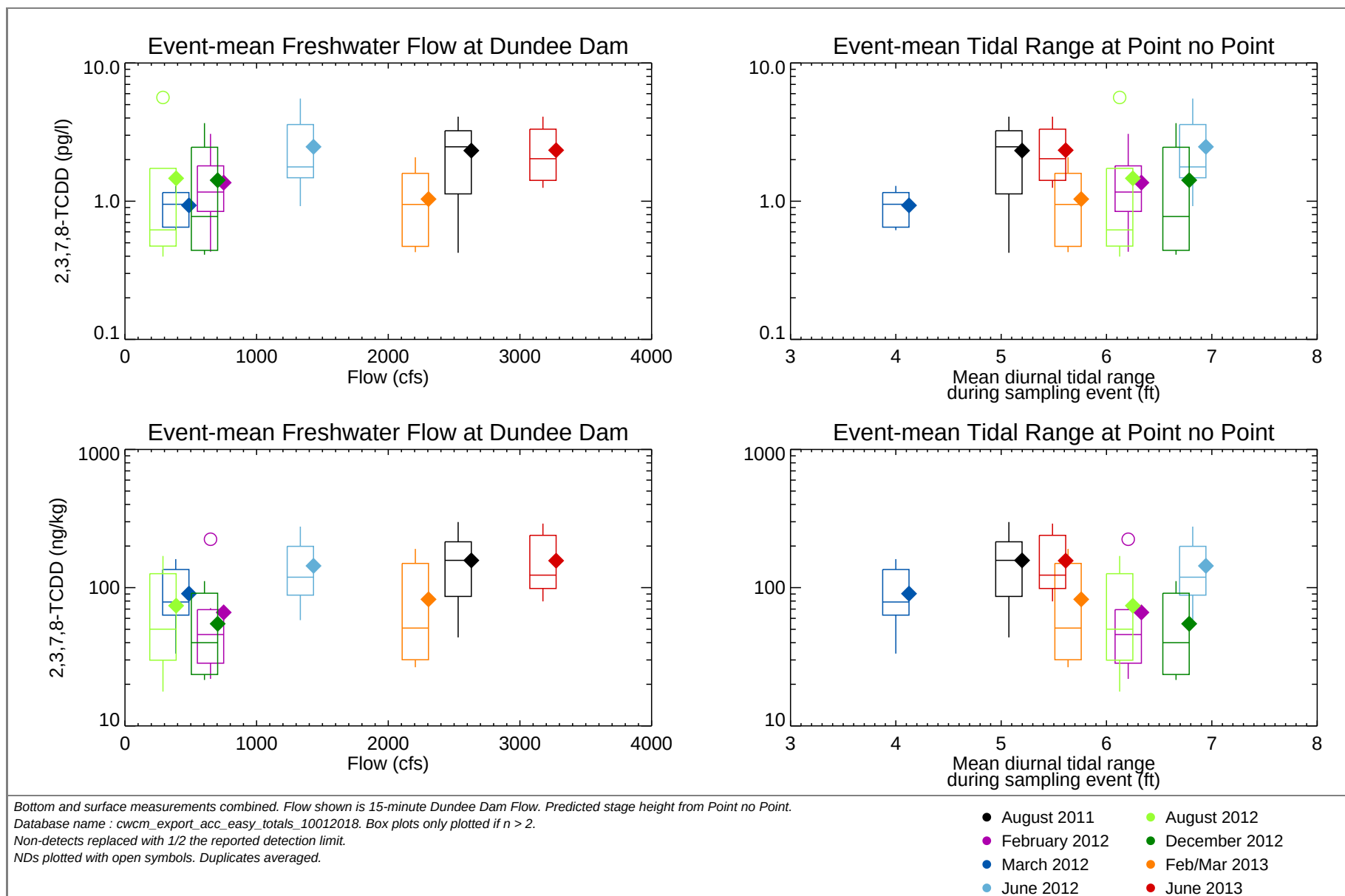
Figure 4-1c
Station TTR2: Water Column 2,3,7,8-TCDD Concentrations vs. Mean Flow and Tidal Range



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Figure 4-1d
Station T014: Water Column 2,3,7,8-TCDD Concentrations vs. Mean Flow and Tidal Range

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Figure 4-1e
Station T000: Water Column 2,3,7,8-TCDD Concentrations vs. Mean Flow and Tidal Range

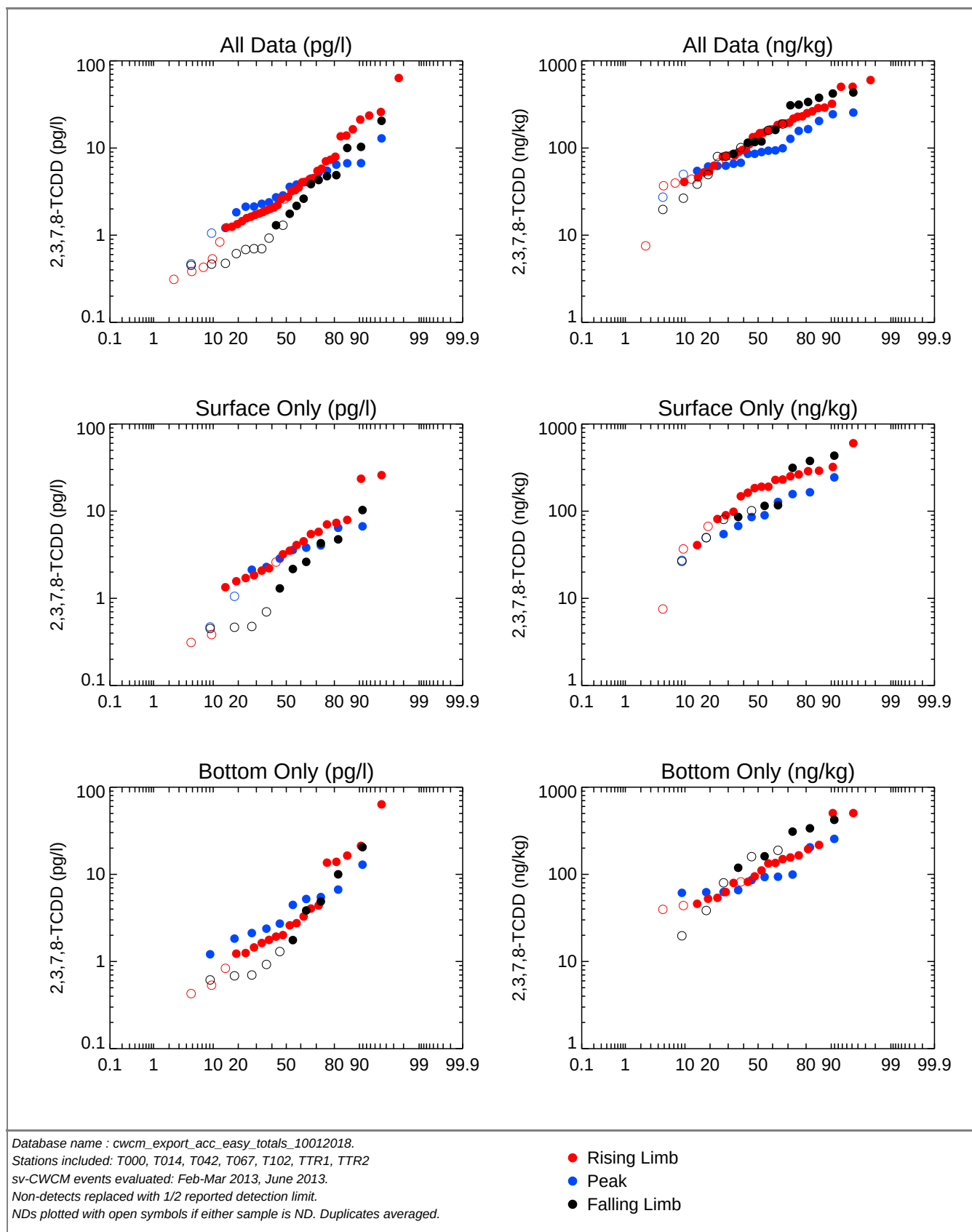


Figure 4-2a

Water Column 2,3,7,8-TCDD Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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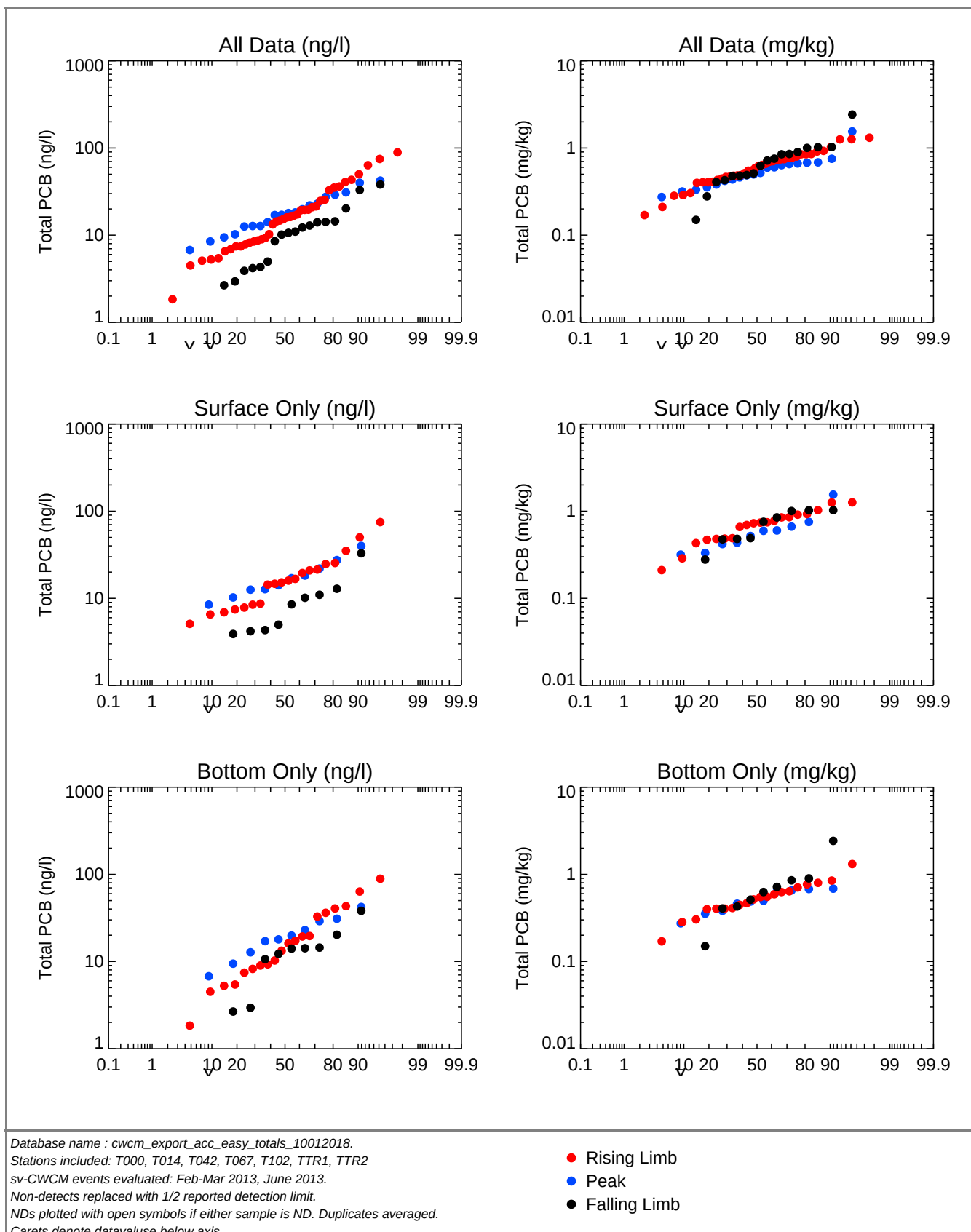


Figure 4-2b

Water Column Total PCB Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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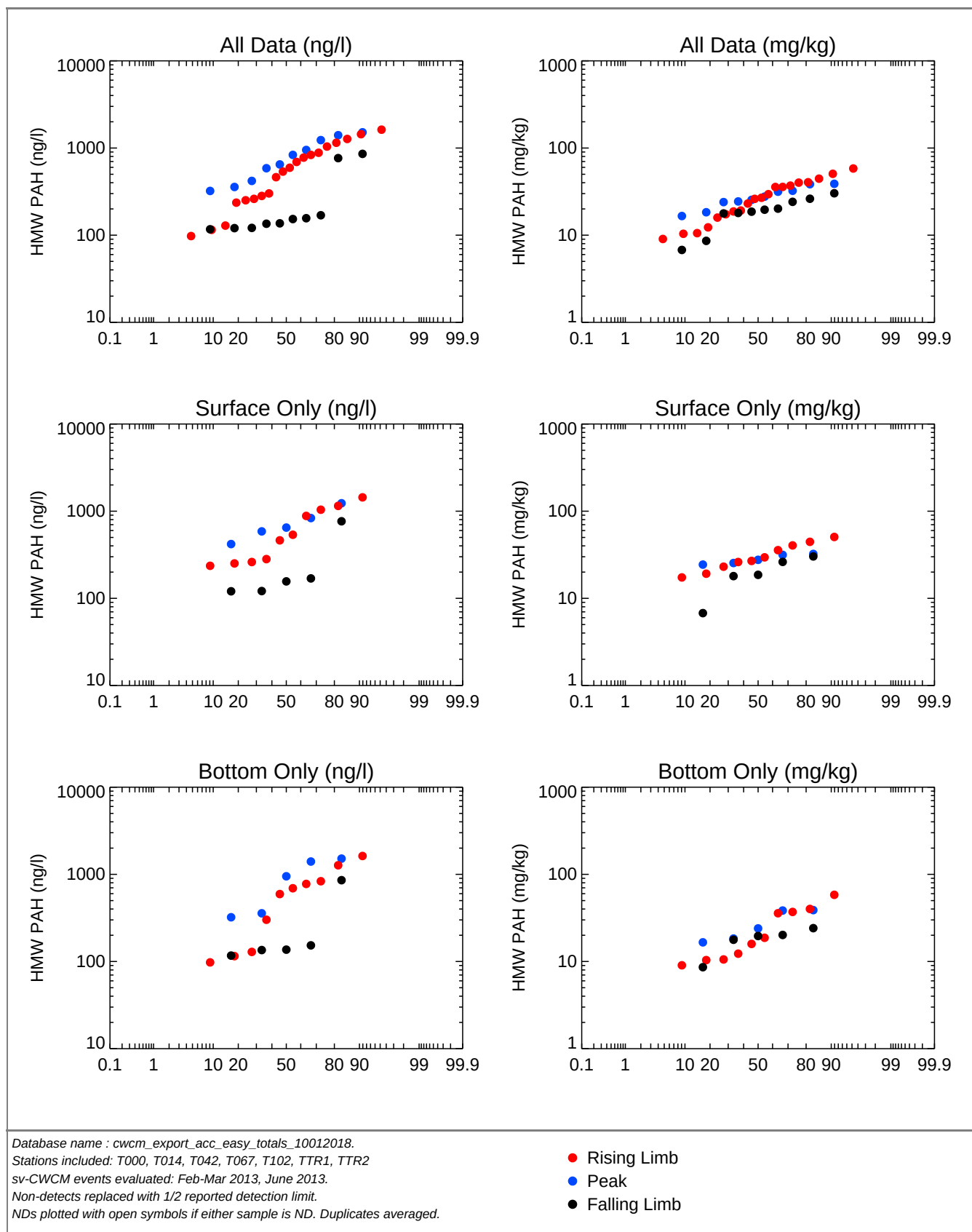


Figure 4-2c

Water Column HMW PAH Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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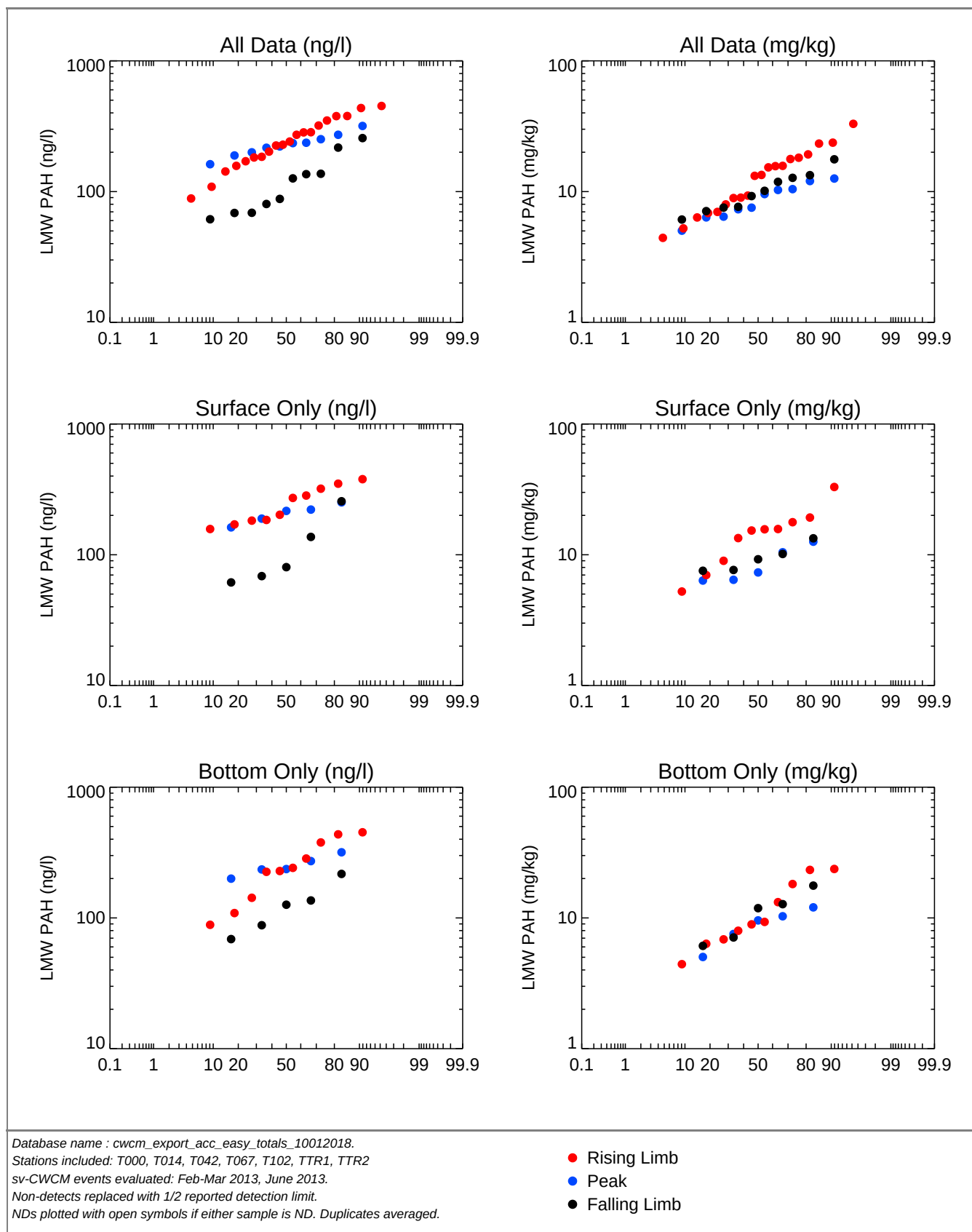


Figure 4-2d

Water Column LMW PAH Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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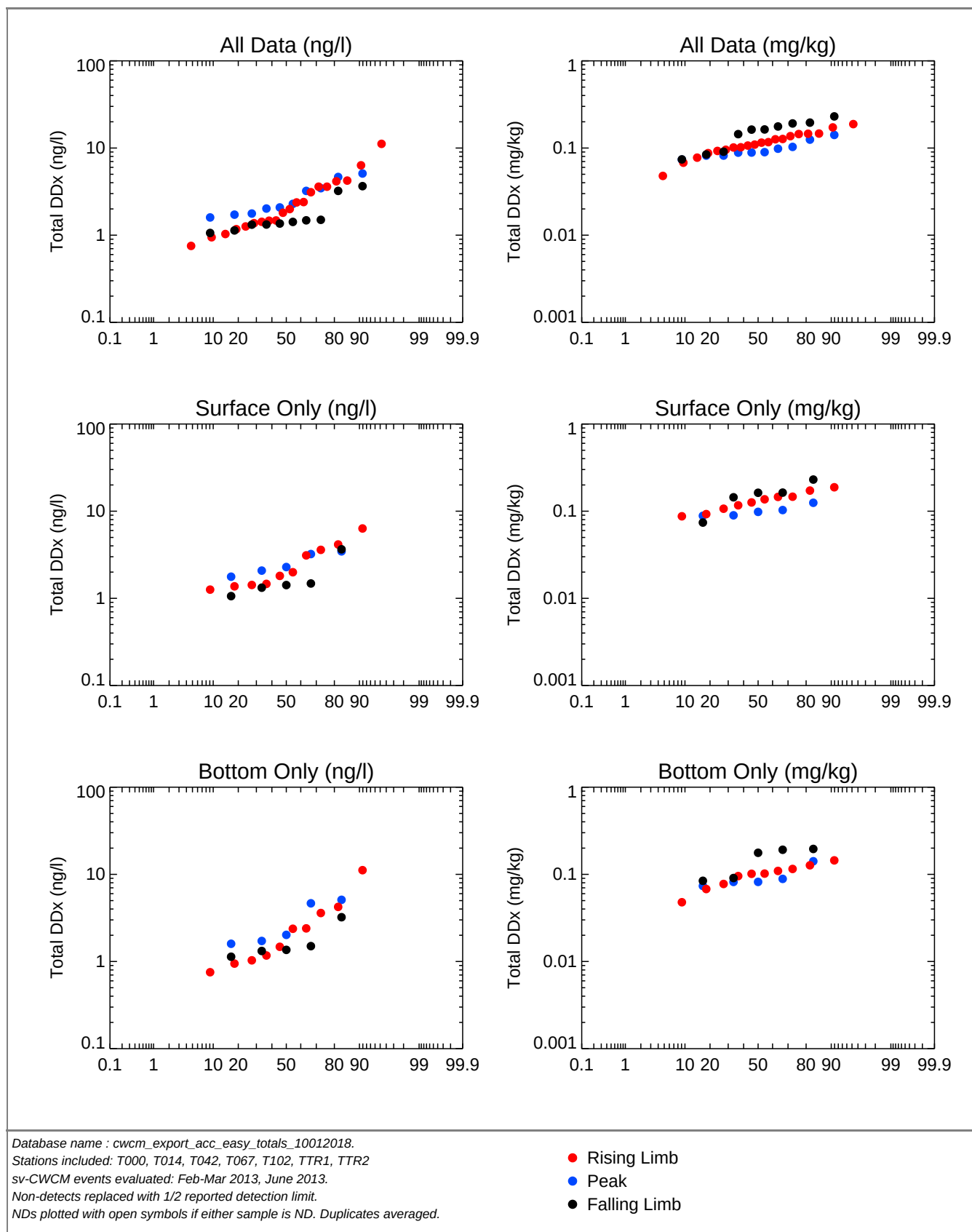


Figure 4-2e

Water Column Total DDX Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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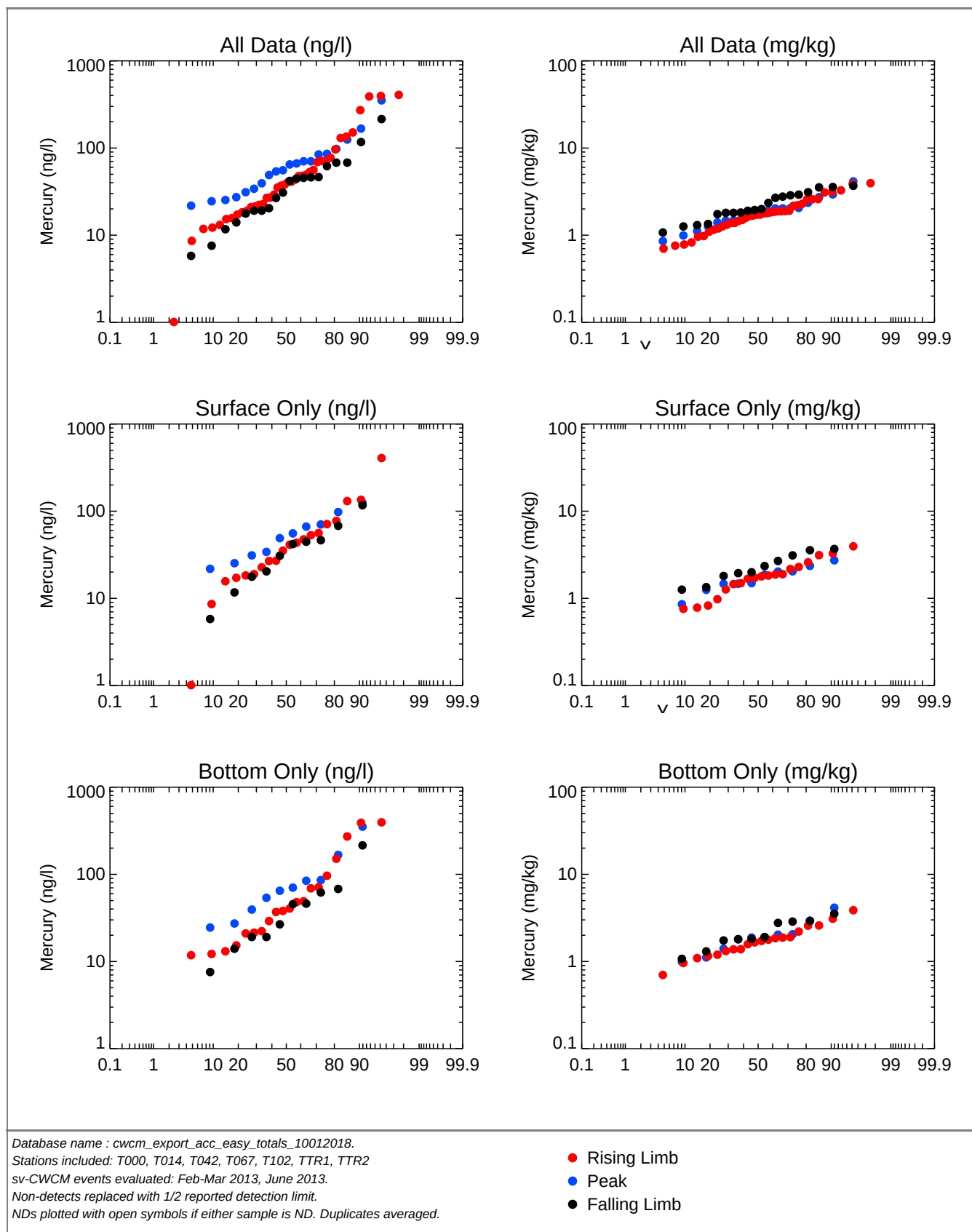
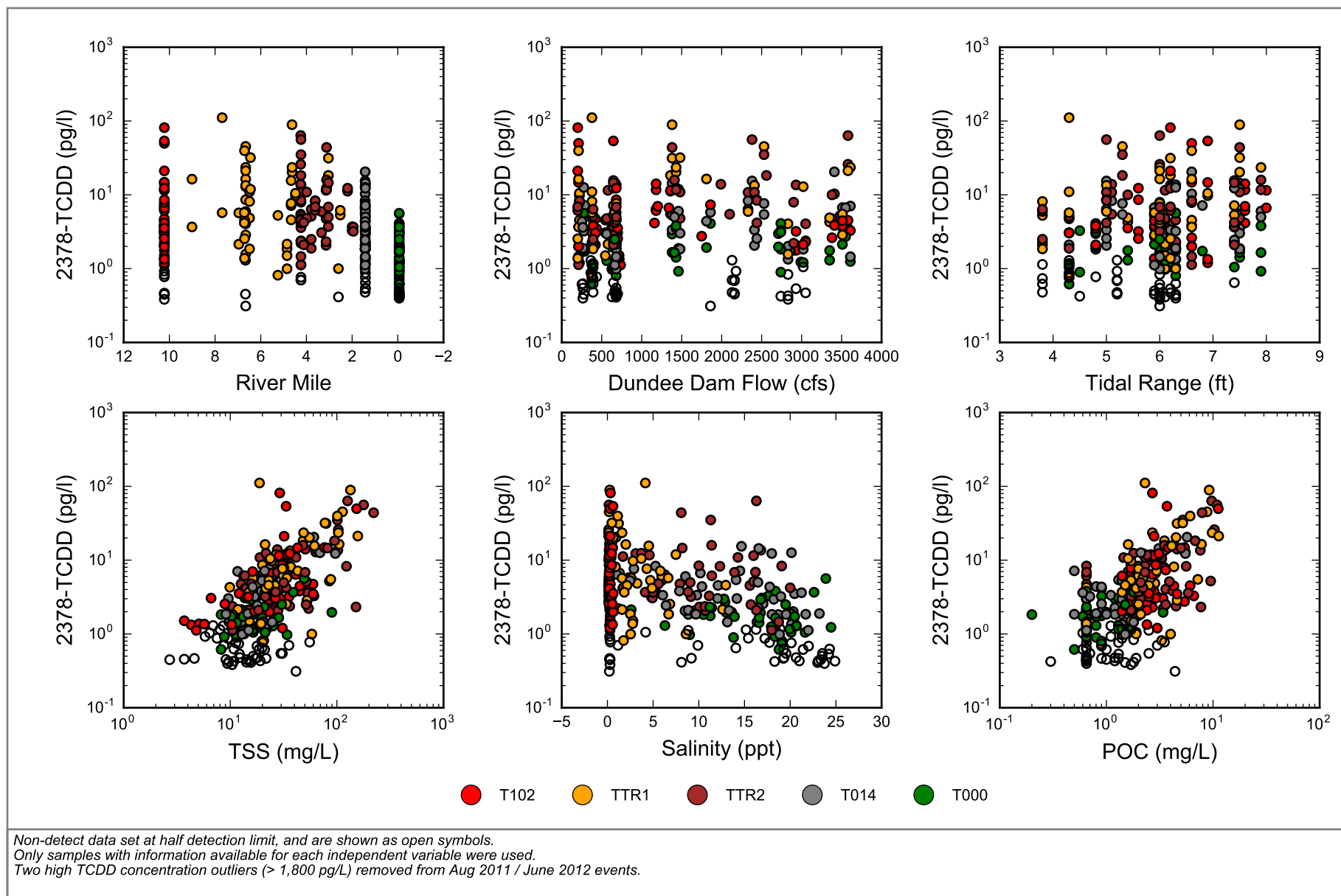


Figure 4-2f

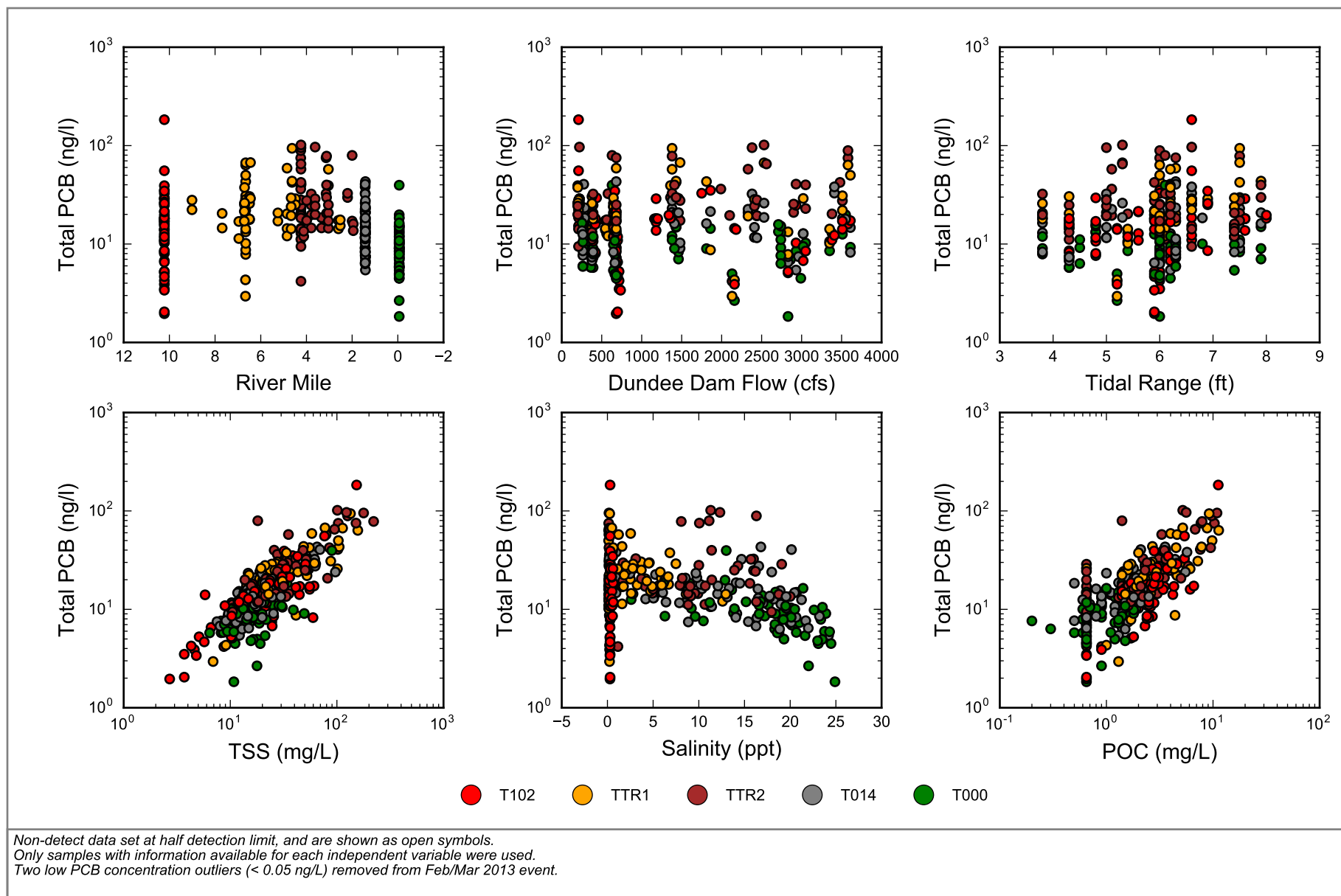
Water Column Mercury Concentrations at LPR Stations, Rising/Falling Hydrograph Limbs

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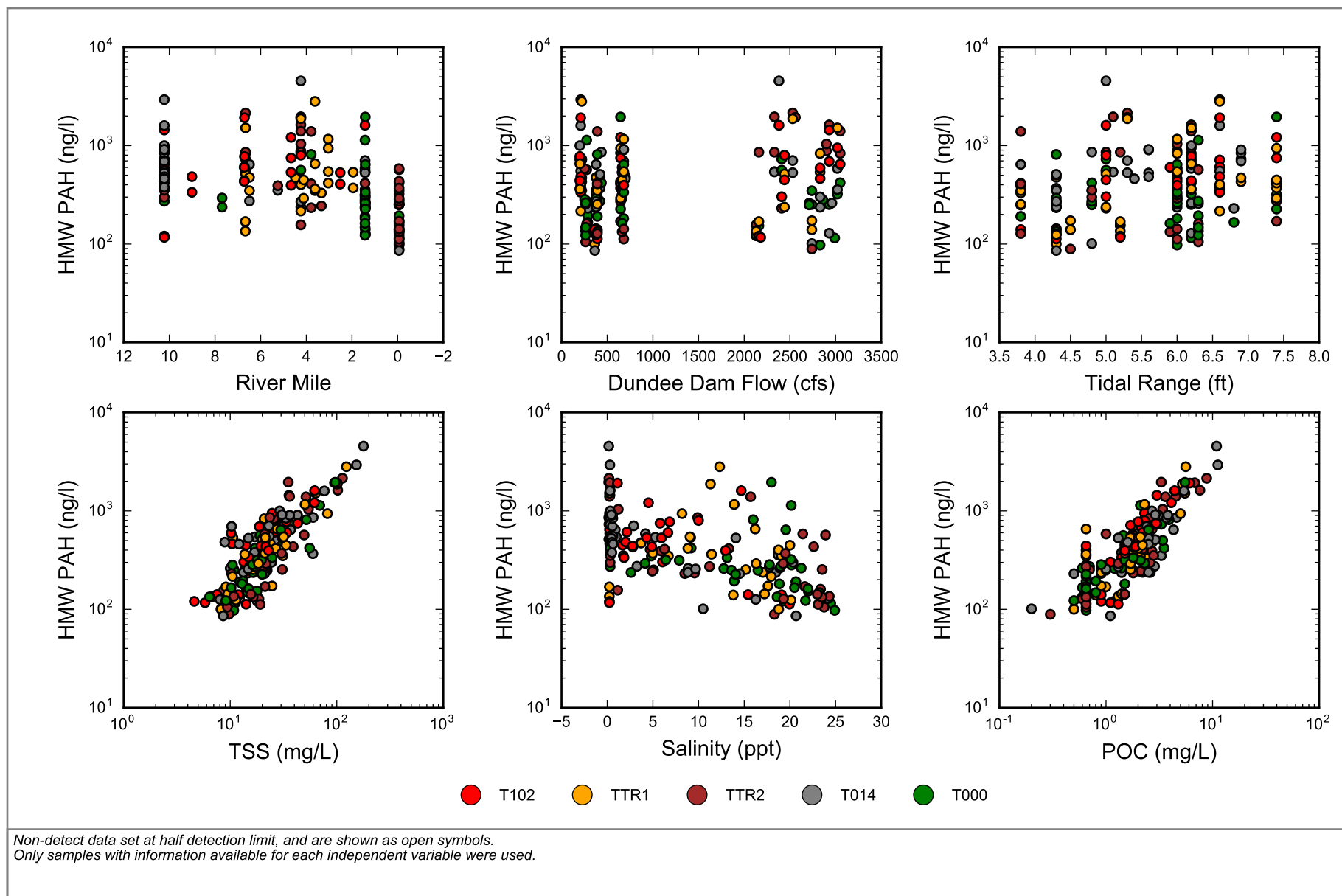
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Figure 5-1a
Water Column 2,3,7,8-TCDD Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
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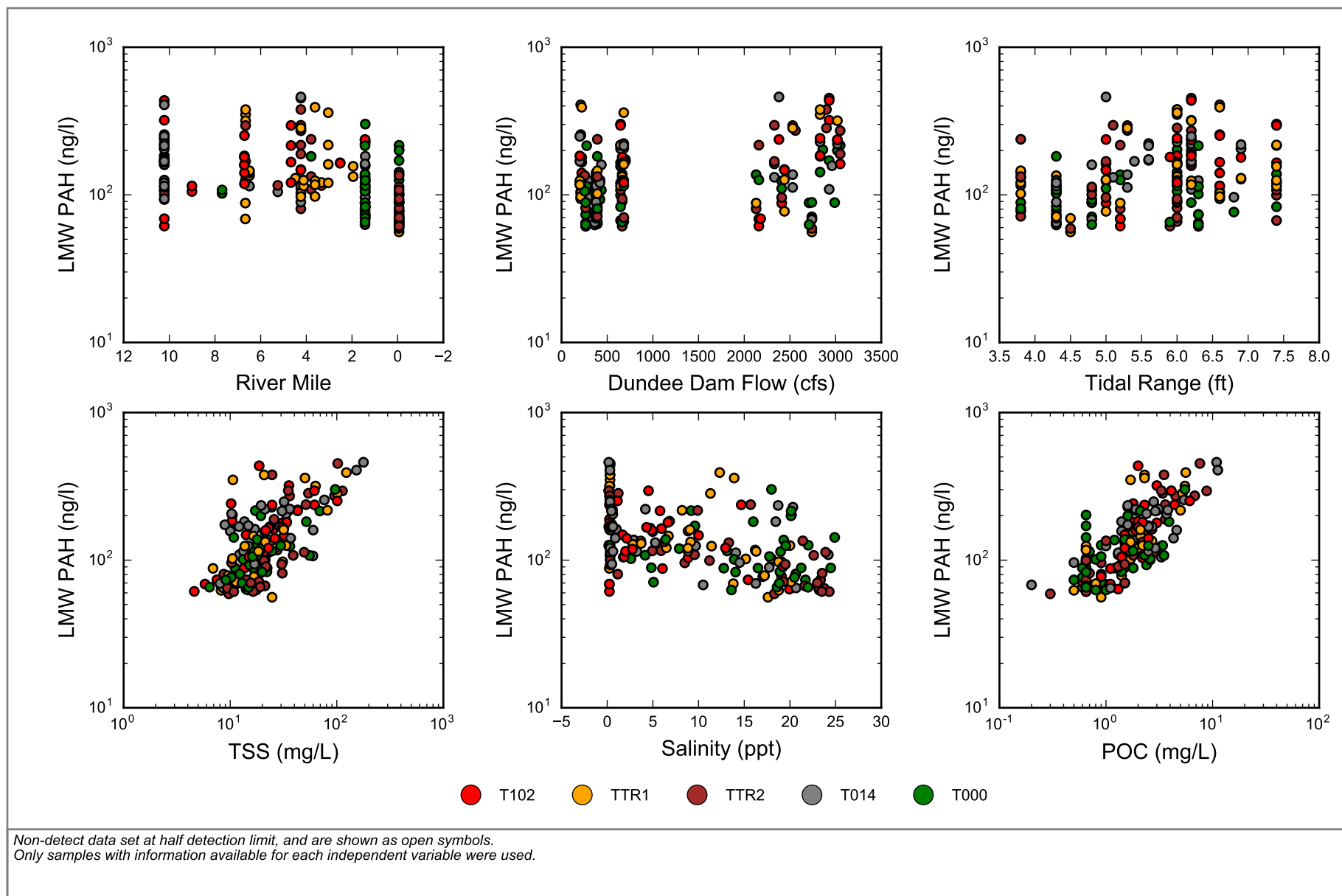
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Figure 5-1b
Water Column Total PCB Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
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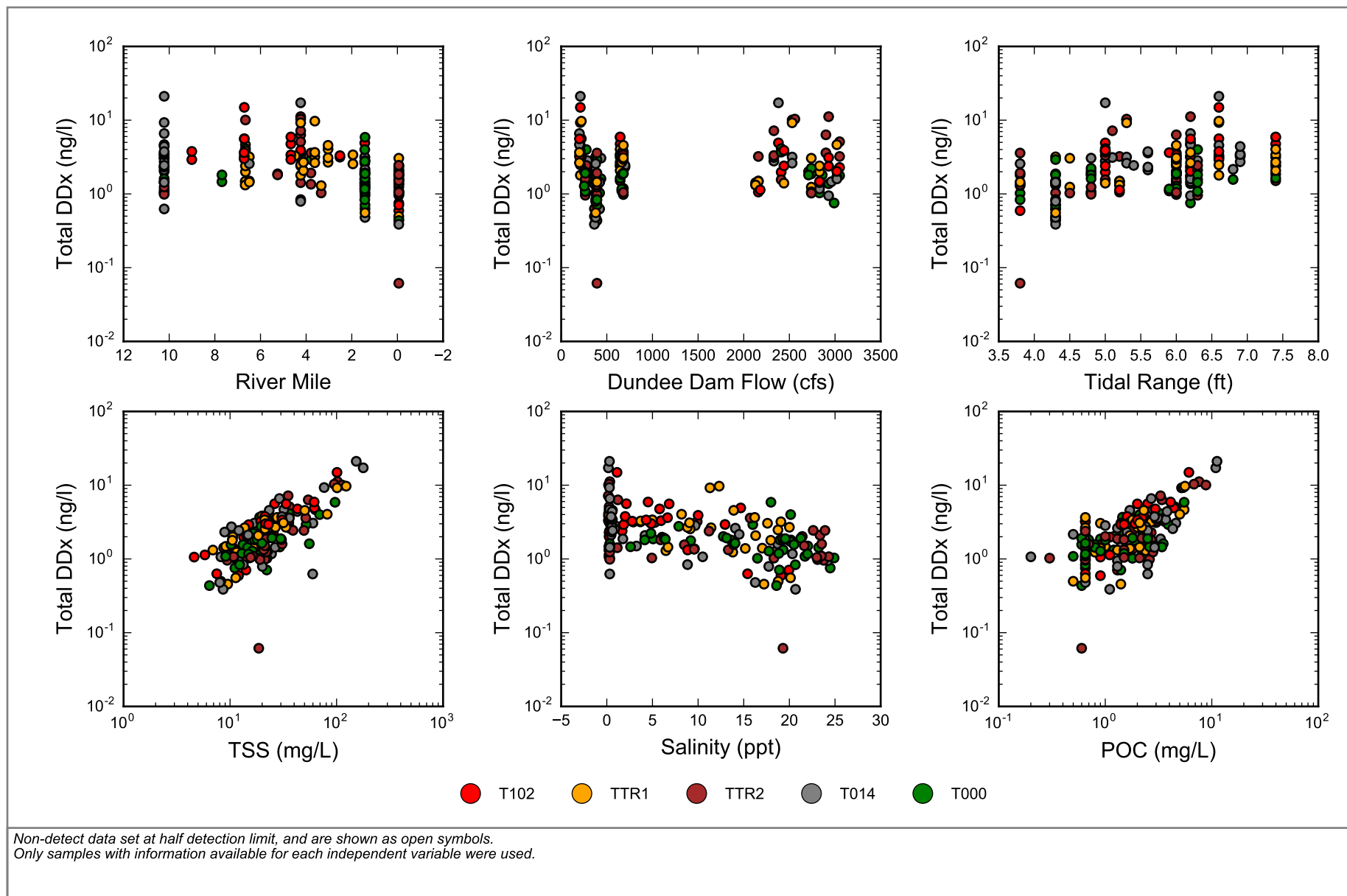
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Figure 5-1c
Water Column HMW PAH Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
 Remedial Investigation Report
 Lower Passaic River Study Area Remedial Investigation/Feasibility Study



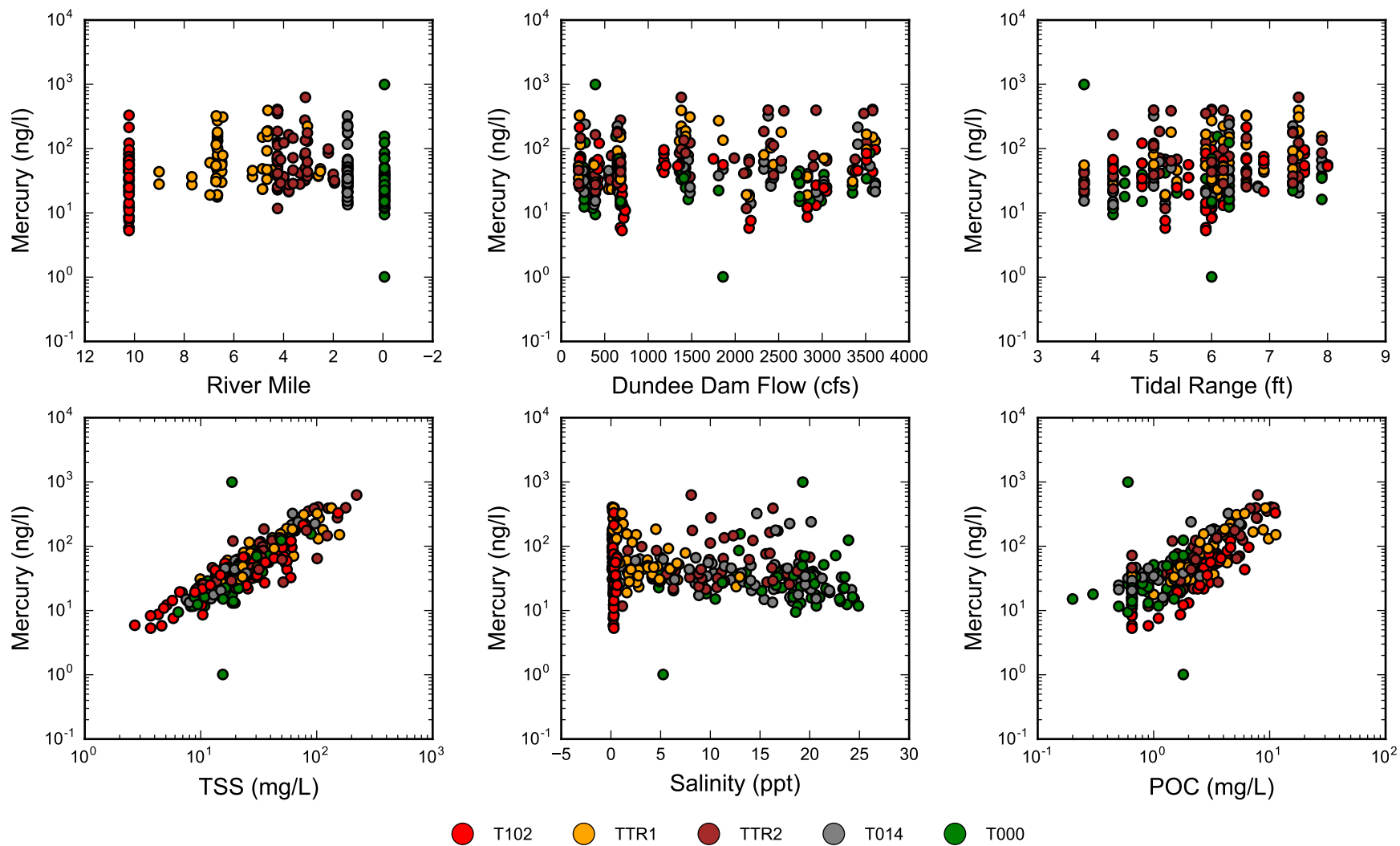
Publish Date: 06/18/2019 19:14 PM | User: WCL-PKWO
 File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\lv5\Appendix_H\code\python\COPC_evaluation_LMW_PAH.py

Figure 5-1d
Water Column LMW PAH Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
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Figure 5-1e
Water Column Total DDX Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
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Non-detect data set at half detection limit, and are shown as open symbols.
Only samples with information available for each independent variable were used.

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Figure 5-1f
Water Column Mercury Concentration vs. Flow, Tidal Range, TSS, Salinity, and POC
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