

APPENDIX H. ALTERNATE CALIBRATION RESULTS

This appendix contains the following:

- ◆ Steady-state model results (presented as species predictive accuracy factors [SPAFAFs]) for the six alternate calibrations (Tables 1 to 3)
- ◆ Comparison of parameter sets for alternate calibrations (Table 4 and Figure 1)
- ◆ Dynamic model results for all species and modeling areas

Table 1. Steady state model results for the optimize all SPAF alternate calibrations

Model Compartment	SPAF-all (K_{ow} variable)						SPAF-all (K_{ow} constant)					
	2,3,7,8-TCDD			Tetra CB			2,3,7,8-TCDD			Tetra CB		
	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam
Small filter feeding fish		-1.0			1.0			1.0			-1.3	
Small forage fish	1.7	2.8	-2.6	1.0	-1.0	-1.0	2.8	4.7	-2.2	-1.5	-1.6	-1.4
Small American eel	-2.9	2.7	1.6	-2.0	1.5	1.6	-3.4	2.7	1.3	-2.4	1.2	1.3
Blue crab	-1.3	3.4	-6.5	-1.9	1.4	1.2	1.0	4.7	-5.6	-2.2	1.1	1.1
Carp		1.7	-1.9		-1.6	1.0		1.8	-2.1		-2.1	-1.2
Catfish	-3.2	2.7	-10.7	-2.8	1.2	-1.1	-2.2	3.2	-11.8	-4.8	-1.2	-1.5
White perch	-1.4	2.0	-3.8	-2.1	-1.2	1.3	-1.0	3.0	-3.2	-3.6	-2.0	-1.2
Large American Eel	-1.5	1.6		-1.3	1.7		-1.6	1.7		-2.1	1.2	
Bass		1.1	-1.1		1.0	-1.6		1.4	-1.4		-1.7	-2.3
Average All	2.0	2.1	4.0	1.8	1.3	1.3	2.0	2.7	4.0	2.8	1.5	1.4
Average Priority	2.1			1.5			2.5			1.8		

Table 2. Alternate calibration steady state model results for the optimize priority SPAF simulations

Model Compartment	SPAF-priority (K_{ow} variable)						SPAF-priority (K_{ow} constant)					
	2,3,7,8-TCDD			Tetra CB			2,3,7,8-TCDD			Tetra CB		
	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam
Small filter feeding fish		1.3			-1.1			1.2			-1.3	
Small forage fish	-2.2	1.0	-14.4	1.0	1.1	1.1	-2.0	-1.0	-15.8	1.1	1.0	1.1
Small American eel	-4.2	1.3	-1.2	-2.2	-1.0	1.6	-5.1	1.2	-1.5	-2.4	-1.0	1.4
Blue crab	-1.5	1.5	-12.8	-1.2	1.3	1.7	-1.6	1.8	-15.0	-1.2	1.3	1.5
Carp		1.0	-3.1		-1.5	1.6		-1.0	-3.7		-1.6	1.4
Catfish	-6.1	-1.0	-43.1	-2.2	1.2	1.1	-6.3	1.0	-53.0	-2.6	1.2	-1.0
White perch	-1.1	1.4	-6.4	-1.1	1.0	1.9	-1.3	1.5	-8.1	-1.3	-1.1	1.5
Large American Eel	-1.6	1.0		-1.9	-1.0		-2.0	-1.0		-2.3	1.0	
Bass		-1.1	-2.5		-1.0	-1.4		-1.0	-3.1		-1.1	-1.7
Average All	2.8	1.2	11.9	1.6	1.1	1.5	3.1	1.2	14.3	1.8	1.2	1.4
Average Priority		1.2			1.1			1.2			1.2	

Table 3. Alternate calibration steady state model results for the MLE simulations

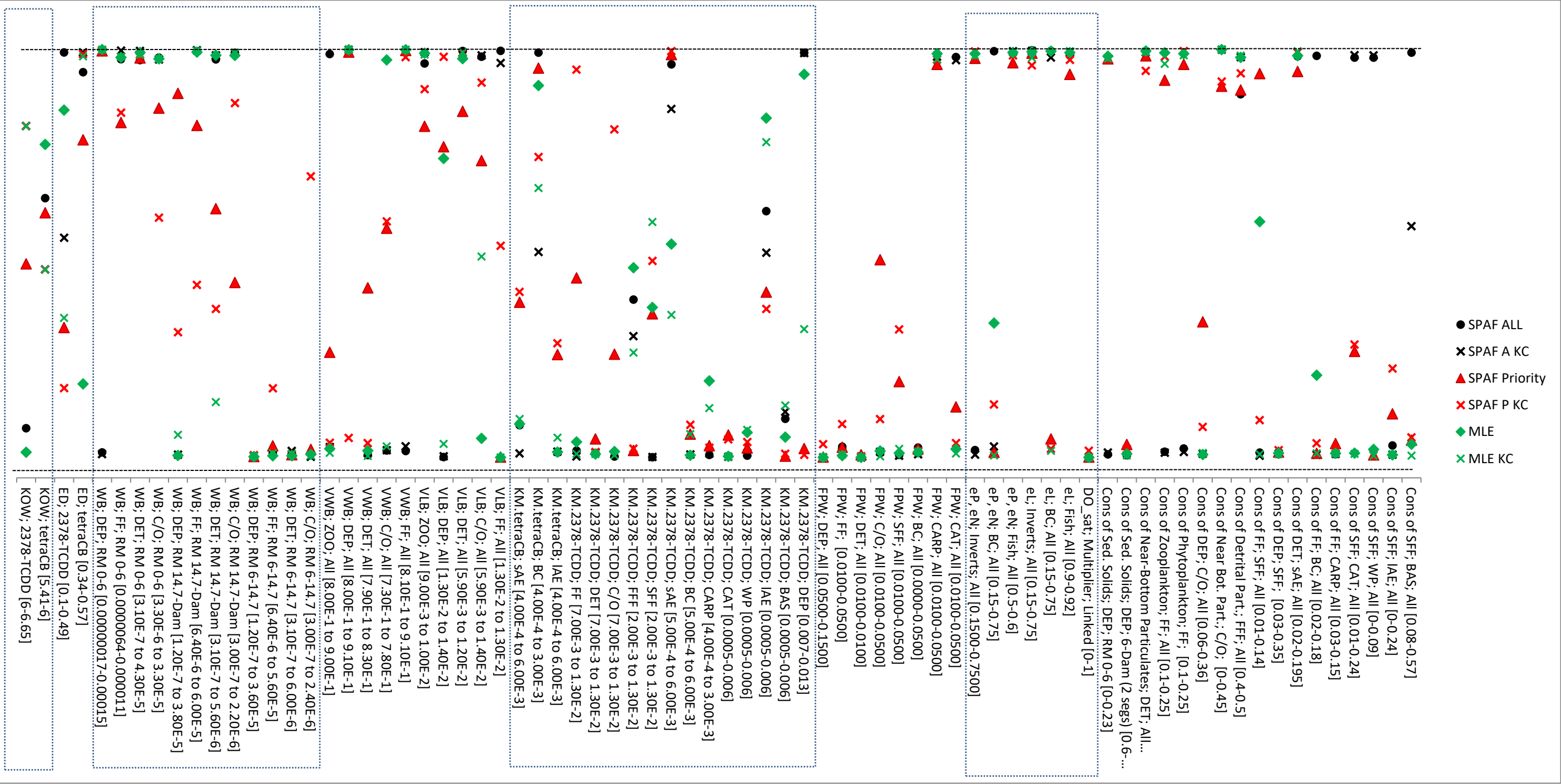
Model Compartment	MLE (K _{ow} variable)						MLE (K _{ow} constant)					
	2,3,7,8-TCDD			Tetra CB			2,3,7,8-TCDD			Tetra CB		
	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam	RM 0-6	RM 6-14.7	RM 14.7-Dam
Small filter feeding fish		-1.3			-1.2			-1.2			-1.3	
Small forage fish	-1.2	1.4	-7.5	1.2	1.0	-1.0	-1.2	1.3	-9.7	1.1	-1.2	-1.1
Small American eel	-1.0	4.1	3.3	-1.4	1.3	1.8	-1.0	5.4	3.2	-1.5	1.3	1.7
Blue crab	1.2	2.5	-7.7	-1.4	1.1	1.1	1.1	2.8	-8.8	-1.3	1.1	1.1
Carp		-1.1	-3.5		-1.9	-1.1		-1.1	-3.8		-1.9	1.1
Catfish	-1.9	2.9	-13.8	-2.2	-1.1	-1.4	-1.7	2.9	-15.8	-2.8	1.1	-1.2
White perch	1.1	1.5	-6.3	-1.3	-1.2	1.2	1.0	2.0	-5.6	-1.6	-1.5	1.1
Large American Eel	-1.6	-1.0		-1.2	1.1		-1.8	-1.0		-1.4	1.3	
Bass		-1.2	-1.7		-1.4	-2.0		-1.2	-2.3		-1.4	-1.7
Average All	1.3	1.9	6.3	1.4	1.2	1.4	1.3	2.1	7.0	1.6	1.3	1.3
Average Priority	1.8			1.3			2.0			1.4		

Table 4. Comparison of parameter sets for alternate calibrations

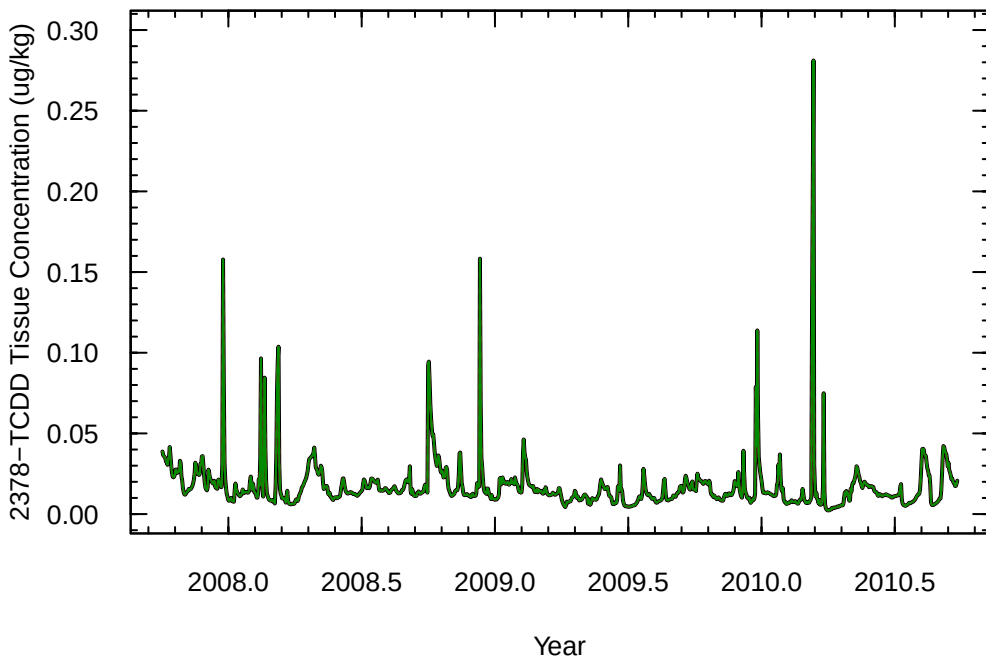
		Distribution Values				Selected Value for Alternate Calibrations							Distribution Percentile					
No.	Parameter Name	Min	Likely (or Max)	Max	Max	SPAF ALL	SPAF A KC	SPAF Priority	SPAF P KC	MLE	MLE KC	Parameter Name and Range	SPAF ALL	SPAF A KC	SPAF Priority	SPAF P KC	MLE	MLE KC
1	KOW; 2378-TCDD	6	6.65	6.8	6.8	6.06	6.65	6.38	6.65	6.01	6.65	KOW; 2378-TCDD [6-6.65]	7%	81%	47%	81%	1%	81%
2	KOW; tetraCB	5.41	6	6.69	6.69	6.22	6.00	6.18	6.00	6.39	6.00	KOW; tetraCB [5.41-6]	64%	46%	60%	46%	77%	46%
3	ED; 2378-TCDD	0.1	0.49	0.76	0.76	0.76	0.46	0.31	0.21	0.66	0.33	ED; 2378-TCDD [0.1-0.49]	99%	54%	32%	17%	85%	34%
4	ED; tetraCB	0.34	0.57	0.83	0.83	0.80	0.83	0.72	0.82	0.43	0.82	ED; tetraCB [0.34-0.57]	94%	99%	78%	99%	18%	98%
5	WB; DEP; RM 0-6	1.7E-07	1.5E-04	1.5E-04	1.5E-04	2.0E-06	1.4E-06	1.5E-04	1.5E-04	1.5E-04	1.50E-04	WB; DEP; RM 0-6 [0.00000017-0.00015]	1%	1%	100%	100%	100%	100%
6	WB; FF; RM 0-6	6.4E-06	1.1E-05	6.1E-05	6.1E-05	6.0E-05	6.1E-05	5.1E-05	5.3E-05	6.0E-05	6.00E-05	WB; FF; RM 0-6 [0.0000064-0.000011]	98%	100%	82%	85%	98%	98%
7	WB; DET; RM 0-6	3.1E-07	4.3E-05	3.3E-04	3.3E-04	3.2E-04	3.3E-04	3.2E-04	3.3E-04	3.3E-04	3.26E-04	WB; DET; RM 0-6 [3.10E-7 to 4.30E-5]	97%	100%	98%	99%	99%	99%
8	WB; C/O; RM 0-6	3.3E-06	3.3E-05	2.2E-04	2.2E-04	2.2E-04	2.1E-04	1.9E-04	1.3E-04	2.2E-04	2.15E-04	WB; C/O; RM 0-6 [3.30E-6 to 3.30E-5]	98%	98%	86%	59%	98%	98%
9	WB; DEP; RM 14.7-Dam	1.2E-07	3.8E-05	4.0E-04	4.0E-04	2.2E-06	2.8E-06	3.6E-04	1.2E-04	2.1E-06	2.23E-05	WB; DEP; RM 14.7-Dam [1.20E-7 to 3.80E-5]	1%	1%	89%	31%	0%	6%
10	WB; FF; RM 14.7-Dam	6.4E-06	6.0E-05	6.1E-05	6.1E-05	6.1E-05	6.1E-05	5.1E-05	2.9E-05	6.1E-05	6.08E-05	WB; FF; RM 14.7-Dam [6.40E-6 to 6.00E-5]	100%	100%	81%	42%	99%	100%
11	WB; DET; RM 14.7-Dam	3.1E-07	5.6E-06	1.1E-05	1.1E-05	1.1E-05	1.1E-05	6.8E-06	4.2E-06	1.1E-05	1.76E-06	WB; DET; RM 14.7-Dam [3.10E-7 to 5.60E-6]	98%	99%	61%	36%	99%	14%
12	WB; C/O; RM 14.7-Dam	3.0E-07	2.2E-06	2.7E-06	2.7E-06	2.7E-06	2.7E-06	1.3E-06	2.4E-06	2.7E-06	2.68E-06	WB; C/O; RM 14.7-Dam [3.00E-7 to 2.20E-6]	99%	99%	43%	87%	99%	99%
13	WB; DEP; RM 6-14.7	1.2E-07	3.6E-05	4.0E-04	4.0E-04	1.3E-06	1.6E-06	1.0E-06	2.4E-06	8.2E-07	1.56E-06	WB; DEP; RM 6-14.7 [1.20E-7 to 3.60E-5]	0%	0%	0%	1%	0%	0%
14	WB; FF; RM 6-14.7	6.4E-06	5.6E-05	6.1E-05	6.1E-05	7.0E-06	7.1E-06	8.0E-06	1.6E-05	6.6E-06	6.98E-06	WB; FF; RM 6-14.7 [6.40E-6 to 5.60E-5]	1%	1%	3%	17%	0%	1%
15	WB; DET; RM 6-14.7	3.1E-07	6.0E-06	1.3E-05	1.3E-05	4.3E-07	5.2E-07	3.9E-07	4.1E-07	3.6E-07	4.30E-07	WB; DET; RM 6-14.7 [3.10E-7 to 6.00E-6]	1%	2%	1%	1%	0%	1%
16	WB; C/O; RM 6-14.7	3.0E-07	2.4E-06	4.0E-06	4.0E-06	3.4E-07	3.1E-07	3.7E-07	2.8E-06	3.3E-07	3.19E-07	WB; C/O; RM 6-14.7 [3.00E-7 to 2.40E-6]	1%	0%	2%	69%	1%	1%
17	VWB; ZOO; All	0.80	0.90	0.98	0.98	0.98	0.80	0.85	0.81	0.80	0.80	VWB; ZOO; All [8.00E-1 to 9.00E-1]	99%	3%	26%	4%	2%	1%
18	VWB; DEP; All	0.80	0.91	0.91	0.91	0.91	0.91	0.91	0.81	0.91	0.91	VWB; DEP; All [8.00E-1 to 9.10E-1]	100%	100%	99%	5%	100%	100%
19	VWB; DET; All	0.79	0.83	0.92	0.92	0.79	0.79	0.84	0.79	0.79	0.79	VWB; DET; All [7.90E-1 to 8.30E-1]	1%	1%	42%	4%	2%	0%
20	VWB; C/O; All	0.73	0.78	0.85	0.85	0.73	0.73	0.80	0.80	0.85	0.73	VWB; C/O; All [7.30E-1 to 7.80E-1]	2%	2%	56%	58%	97%	3%
21	VWB; FF; All	0.81	0.91	0.91	0.91	0.81	0.81	0.91	0.91	0.91	0.91	VWB; FF; All [8.10E-1 to 9.10E-1]	2%	3%	100%	98%	100%	100%
22	VLB; ZOO; All	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	VLB; ZOO; All [9.00E-3 to 1.00E-2]	97%	99%	81%	90%	99%	99%
23	VLB; DEP; All	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.01	VLB; DEP; All [1.30E-2 to 1.40E-2]	0%	0%	76%	98%	73%	3%
24	VLB; DET; All	0.01	0.01	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	VLB; DET; All [5.90E-3 to 1.20E-2]	100%	99%	85%	99%	98%	99%
25	VLB; C/O; All	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	VLB; C/O; All [5.90E-3 to 1.40E-2]	98%	99%	73%	92%	5%	49%
26	VLB; FF; All	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	VLB; FF; All [1.30E-2 to 1.30E-2]	100%	97%	0%	52%	0%	0%
27	KM.tetraCB; sAE	0.0004	0.0060	0.0160	0.0160	0.0016	0.0006	0.0063	0.0067	0.0017	0.0019	KM.tetraCB; sAE [4.00E-4 to 6.00E-3]	8%	1%	38%	41%	8%	9%
28	KM.tetraCB; BC	0.0004	0.0030	0.0160	0.0160	0.0159	0.0083	0.0153	0.0119	0.0146	0.0107	KM.tetraCB; BC [4.00E-4 to 3.00E-3]	99%	50%	95%	74%	91%	66%
29	KM.tetraCB; IAE	0.0004	0.0060	0.0160	0.0160	0.0006	0.0006	0.0043	0.0048	0.0006	0.0012	KM.tetraCB; IAE [4.00E-4 to 6.00E-3]	1%	1%	25%	28%	1%	5%
30	KM.2378-TCDD; FF	0.0070	0.0130	0.0240	0.0240	0.0073	0.0070	0.0145	0.0232	0.0077	0.0072	KM.2378-TCDD; FF [7.00E-3 to 1.30E-2]	2%	0%	44%	95%	4%	1%
31	KM.2378-TCDD; DET	0.0070	0.0130	0.0240	0.0240	0.0072	0.0072	0.0078	0.0072	0.0071	0.0071	KM.2378-TCDD; DET [7.00E-3 to 1.30E-2]	1%	1%	5%	1%	1%	1%
32	KM.2378-TCDD; C/O	0.0070	0.0130	0.0240	0.0240	0.0070	0.0071	0.0113	0.0207	0.0073	0.0071	KM.2378-TCDD; C/O [7.00E-3 to 1.30E-2]	0%	1%	25%	80%	1%	1%
33	KM.2378-TCDD; FFF	0.0020	0.0130	0.0820	0.0820	0.0330	0.0258	0.0034	0.0038	0.0392	0.0226	KM.2378-TCDD; FFF [2.00E-3 to 1.30E-2]	39%	30%	2%	2%	47%	26%
34	KM.2378-TCDD; SFF	0.0020	0.0130	0.0820	0.0820	0.0020	0.0021	0.0302	0.0406	0.0314	0.0482	KM.2378-TCDD; SFF [2.00E-3 to 1.30E-2]	0%	0%	35%	48%	37%	58%
35	KM.2378-TCDD; sAE	0.0005	0.0060	0.0450	0.0450	0.0434	0.0385	0.0445	0.0448	0.0238	0.0161	KM.2378-TCDD; sAE [5.00E-4 to 6.00E-3]	96%	85%	99%	100%	52%	35%
36	KM.2378-TCDD; BC	0.0005	0.0060	0.0450	0.0450	0.0008	0.0008	0.0031	0.0041	0.0007	0.0031	KM.2378-TCDD; BC [5.00E-4 to 6.00E-3]	1%	1%	6%	8%	1%	6%
37	KM.2378-TCDD; CARP	0.0004	0.0030	0.0130	0.0130	0.0005	0.0005	0.0008	0.0007	0.0028	0.0019	KM.2378-TCDD; CARP [4.00E-4 to 3.00E-3]	1%	1%	3%	2%	19%	12%
38	KM.2378-TCDD; CAT	0.0005	0.0060	0.0450	0.0450	0.0007	0.0006	0.0029	0.0025	0.0006	0.0006	KM.2378-TCDD; CAT [0.0005-0.006]	0%	0%	5%	4%	0%	0%
39	KM.2378-TCDD; WP	0.0005	0.0060	0.0450	0.0450	0.0007	0.0010	0.0015	0.0022	0.0032	0.0035	KM.2378-TCDD; WP [0.0005-0.006]	0%	1%	2%	4%	6%	7%
40	KM.2378-TCDD; IAE	0.0005	0.0060	0.0450	0.0450	0.0274	0.0228	0.0185	0.0167	0.0375	0.0349	KM.2378-TCDD; IAE [0.0005-0.006]	60%	50%	41%	36%	83%	77%
41	KM.2378-TCDD; BAS	0.0005	0.0060	0.0450	0.0450	0.0047	0.0055	0.0006	0.0009	0.0027	0.0062	KM.2378-TCDD; BAS [0.0005-0.006]	10%	11%	0%	1%	5%	13%
42	KM.2378-TCDD; DEP	0.0070	0.0130	0.0240	0.0240	0.0239	0.0239	0.0074	0.0071	0.0230	0.0123	KM.2378-TCDD; DEP [0.007-0.013]	99%	99%	2%	1%	94%	31%
43	FPW; DEP; All	0.05	0.15		0.15	0.05	0.05	0.05	0.05	0.05	0.05	FPW; DEP; All [0.0500-0.1500]	0%	0%	0%	3%	0%	0%
44	FPW; FF;	0.01	0.05	0.10	0.10	0.01	0.01	0.01	0.02	0.01	0.01	FPW; FF; [0.0100-0.0500]	3%	1%	2%	8%	0%	1%
45	FPW; DET; All	0.01	0.01	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	FPW; DET; All [0.0100-0.0100]	0%	0%	1%	0%	0%	0%
46	FPW; C/O; All	0.01	0.05	0.05	0.05	0.01	0.01	0.03	0.01	0.01	0.01	FPW; C/O; All [0.0100-0.0500]	1%	1%	48%	9%	2%	0%
47	FPW; SFF; All	0.01	0.05	0.10	0.10	0.01	0.01	0.03	0.04	0.01	0.01	FPW; SFF; All [0.0100-0.0500]	1%	0%	19%	31%	1%	2%

		Distribution Values				Selected Value for Alternate Calibrations							Distribution Percentile					
No.	Parameter Name	Min	Likely (or Max)	Max	Max	SPAF ALL	SPAF A KC	SPAF Priority	SPAF P KC	MLE	MLE KC	Parameter Name and Range	SPAF ALL	SPAF A KC	SPAF Priority	SPAF P KC	MLE	MLE KC
48	FPW; BC; All	0.00	0.05	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	FPW; BC; All [0.0000-0.0500]	2%	1%	2%	2%	1%	1%
49	FPW; CARP; All	0.01	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	FPW; CARP; All [0.0100-0.0500]	99%	98%	96%	98%	99%	98%
50	FPW; CAT; All	0.01	0.05	0.10	0.10	0.10	0.10	0.02	0.01	0.01	0.01	FPW; CAT; All [0.0100-0.0500]	98%	97%	12%	4%	2%	1%
51	eP, eN; Inverts; All	0.15	0.75	0.96	0.96	0.16	0.16	0.94	0.96	0.95	0.95	eP, eN; Inverts; All [0.1500-0.7500]	2%	1%	98%	100%	99%	99%
52	eP, eN; BC; All	0.15	0.75	0.96	0.96	0.96	0.17	0.16	0.26	0.42	0.15	eP, eN; BC; All [0.15-0.75]	100%	3%	1%	13%	33%	0%
53	eP, eN; Fish; All	0.50	0.60	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	eP, eN; Fish; All [0.5-0.6]	99%	100%	97%	99%	99%	99%
54	eL; Inverts; All	0.15	0.75	0.96	0.96	0.96	0.96	0.95	0.93	0.96	0.94	eL; Inverts; All [0.15-0.75]	100%	100%	99%	96%	99%	98%
55	eL; BC; All	0.15	0.75	0.96	0.96	0.96	0.94	0.19	0.17	0.96	0.16	eL; BC; All [0.15-0.75]	100%	98%	5%	2%	100%	2%
56	eL; Fish; All	0.90	0.92	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	eL; Fish; All [0.9-0.92]	99%	99%	94%	97%	99%	100%
57	DO_sat; Multiplier; Linked	0	1		1	0.000	0.000	0.001	0.017	0.000	0.000	DO_sat; Multiplier; Linked [0-1]	0%	0%	0%	2%	0%	0%
58	Cons of Sed. Solids; DEP; RM 0-6	0%	23%	40%	40%	0.3%	0.5%	39%	39%	39%	39%	Cons of Sed. Solids; DEP; RM 0-6 [0-0.23]	1%	1%	98%	98%	98%	98%
59	Cons of Sed. Solids; DEP; 6-Dam (2 segs)	60%	84%	100%	100%	60%	61%	61%	61%	60%	60%	Cons of Sed. Solids; DEP; 6-Dam (2 segs) [0.6-0.84]	1%	2%	3%	2%	1%	0%
60	Cons of Near-Bottom Particulates; DET; All	20%	64%	95%	95%	95%	95%	94%	91%	95%	95%	Cons of Near-Bottom Particulates; DET; All [0.2-0.64]	100%	99%	98%	95%	100%	99%
61	Cons of Zooplankton; FF; All	10%	25%	50%	50%	11%	10%	47%	49%	50%	49%	Cons of Zooplankton; FF; All [0.1-0.25]	1%	1%	93%	98%	99%	96%
62	Cons of Phytoplankton; FF;	10%	25%	50%	50%	11%	11%	49%	50%	50%	49%	Cons of Phytoplankton; FF; [0.1-0.25]	2%	1%	96%	100%	99%	99%
63	Cons of DEP; C/O; All	6%	36%	66%	66%	6%	7%	26%	11%	6%	7%	Cons of DEP; C/O; All [0.06-0.36]	1%	1%	33%	8%	1%	1%
64	Cons of Near Bot. Part.; C/O;	0%	45%		45%	45%	45%	41%	41%	45%	45%	Cons of Near Bot. Part.; C/O; [0-0.45]	100%	100%	91%	92%	100%	100%
65	Cons of Detrital Part.; FFF; All	40%	50%	80%	80%	76%	79%	76%	78%	79%	79%	Cons of Detrital Part.; FFF; All [0.4-0.5]	89%	98%	90%	94%	98%	99%
66	Cons of FF; SFF; All	1%	14%	66%	66%	2%	1.3%	62%	7%	39%	2%	Cons of FF; SFF; All [0.01-0.14]	1%	0%	94%	9%	58%	1%
67	Cons of DEP; SFF;	3%	35%	73%	73%	4%	4%	4%	4%	4%	4%	Cons of DEP; SFF; [0.03-0.35]	1%	1%	1%	2%	1%	1%
68	Cons of DET; sAE; All	2%	20%	66%	66%	65%	66%	63%	66%	65%	66%	Cons of DET; sAE; All [0.02-0.195]	98%	99%	95%	99%	99%	100%
69	Cons of FF; BC; All	2%	18%	59%	59%	58%	2%	3%	4%	13%	3%	Cons of FF; BC; All [0.02-0.18]	98%	1%	1%	3%	20%	1%
70	Cons of FF; CARP; All	3%	15%	50%	50%	3%	3%	5%	4%	3%	3%	Cons of FF; CARP; All [0.03-0.15]	1%	1%	3%	2%	1%	1%
71	Cons of SFF; CAT; All	1%	24%	83%	83%	81%	82%	22%	24%	2%	2%	Cons of SFF; CAT; All [0.01-0.24]	98%	99%	26%	28%	1%	1%
72	Cons of SFF; WP; All	0%	9%	75%	75%	74%	74%	0.5%	0.5%	1%	0.3%	Cons of SFF; WP; All [0-0.09]	98%	99%	1%	1%	2%	0%
73	Cons of SFF; IAE; All	0%	24%	75%	75%	2%	0.5%	8%	16%	0.5%	0.6%	Cons of SFF; IAE; All [0-0.24]	3%	1%	11%	22%	1%	1%
74	Cons of SFF; BAS; All	8%	57%	62%	62%	62%	39%	10%	11%	10%	8%	Cons of SFF; BAS; All [0.08-0.57]	99%	57%	4%	5%	3%	0%

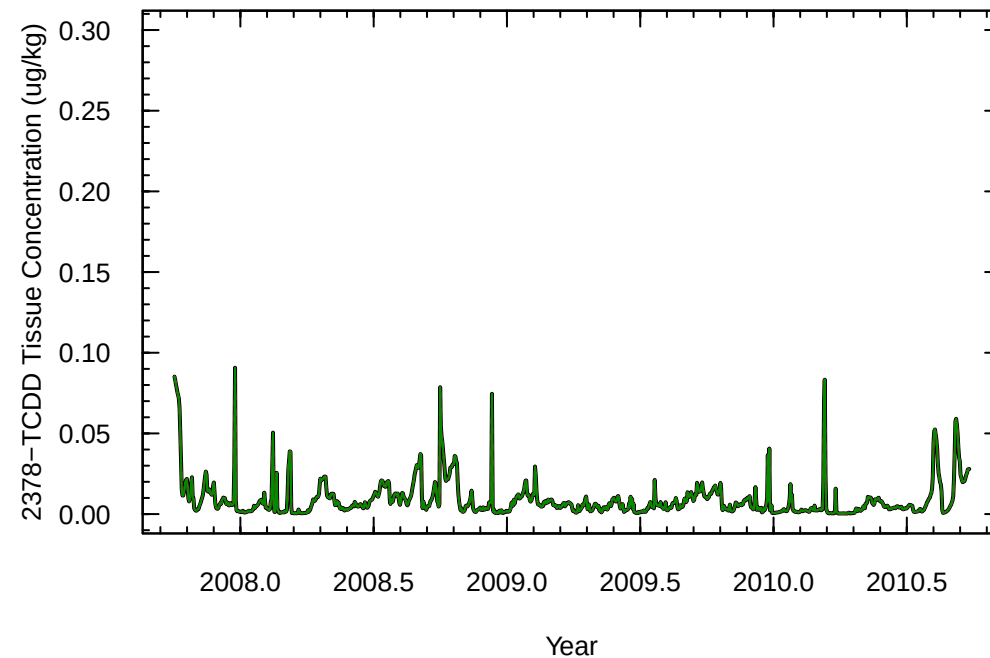
Figure 1. Comparison of parameter sets for alternate calibrations



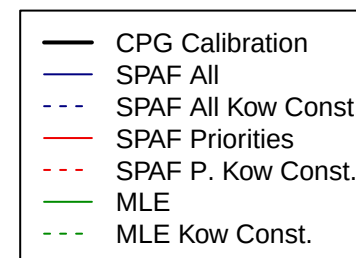
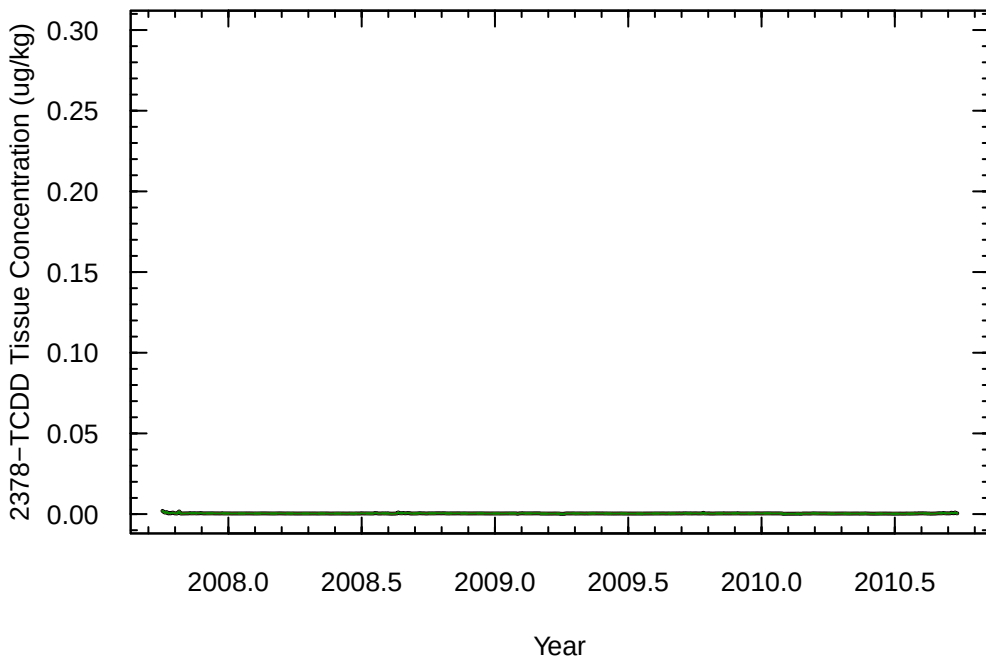
Phytoplankton (RM 0–6)



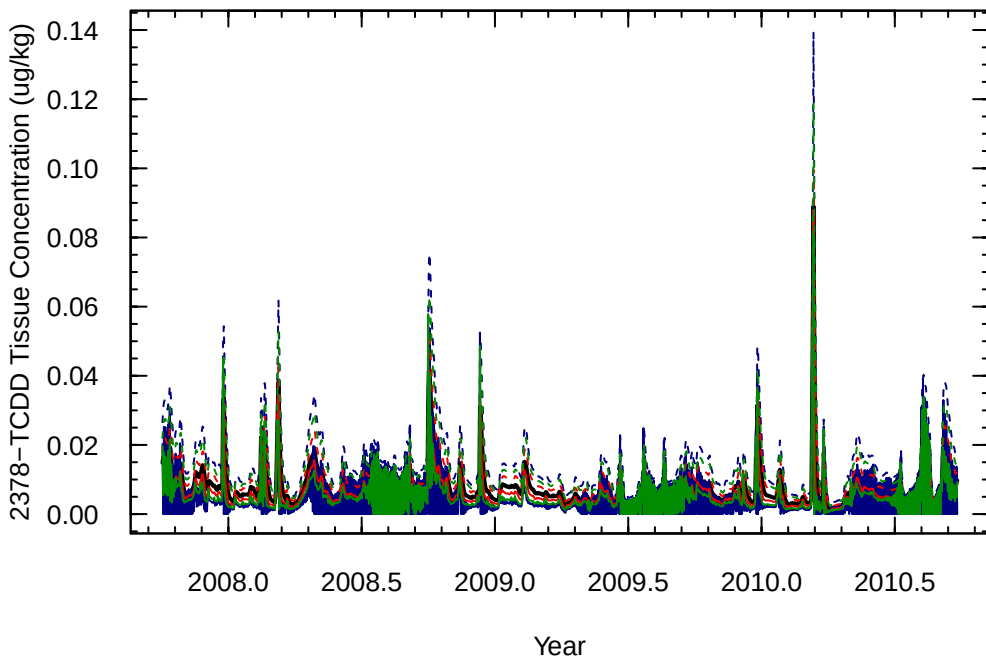
Phytoplankton (RM 6–14.7)



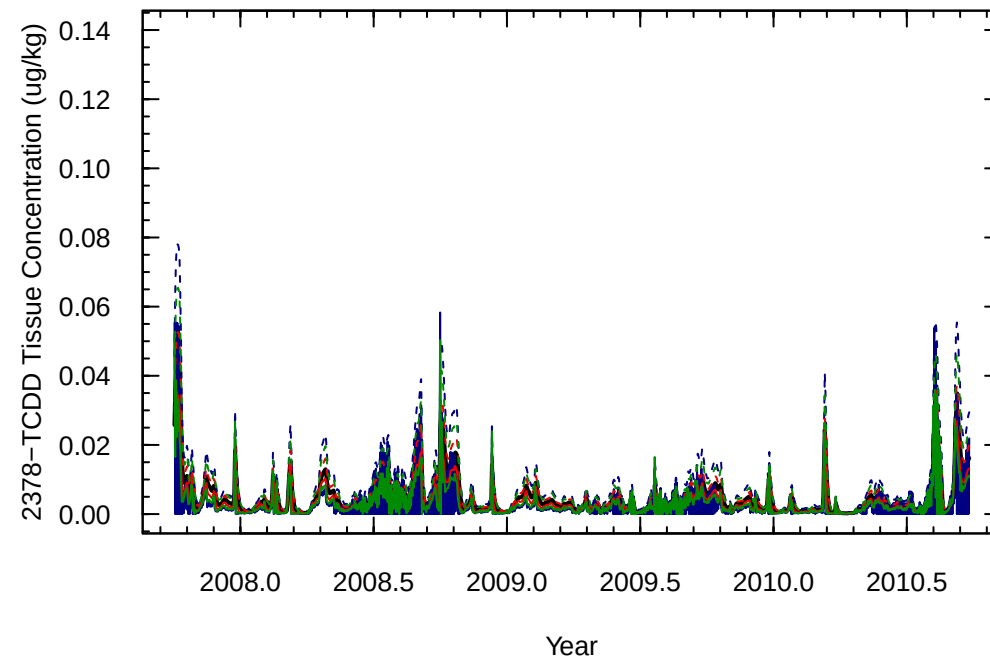
Phytoplankton (RM 14.7–Dam)



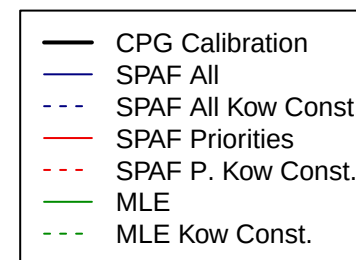
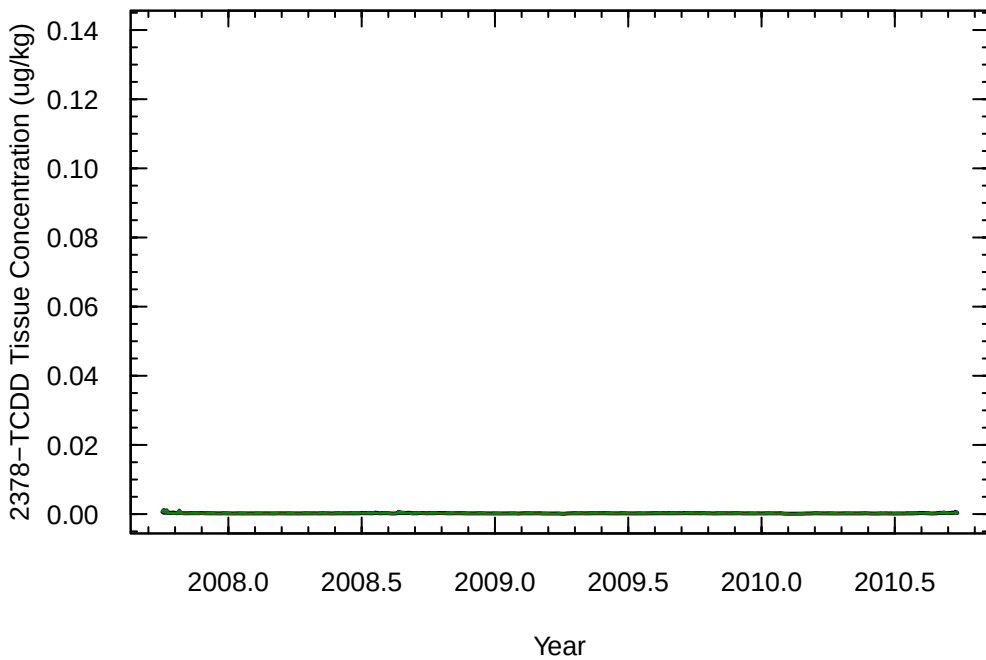
Zooplankton (RM 0–6)



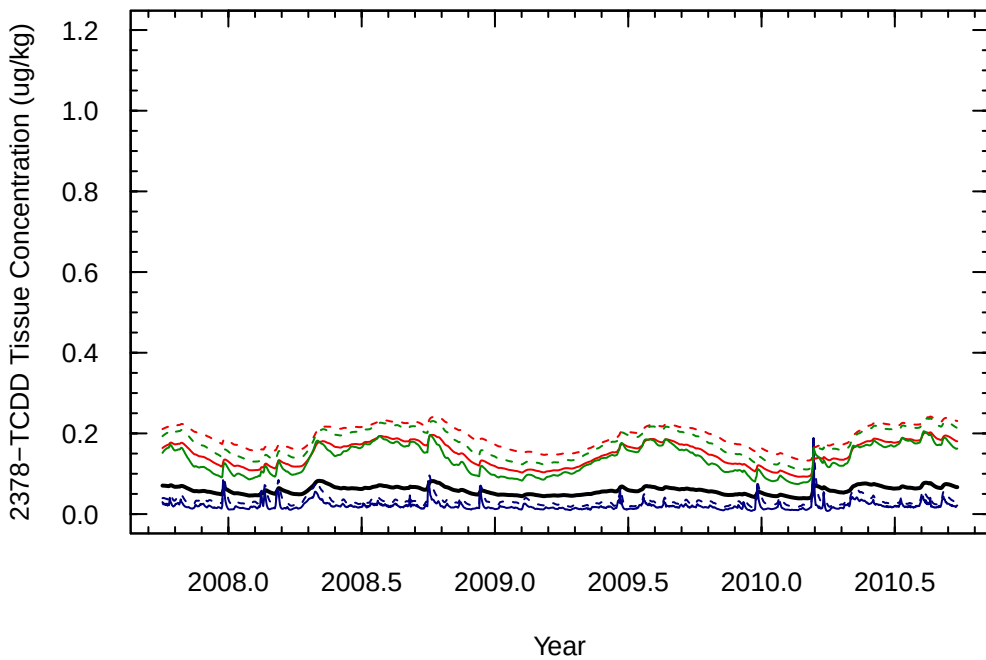
Zooplankton (RM 6–14.7)



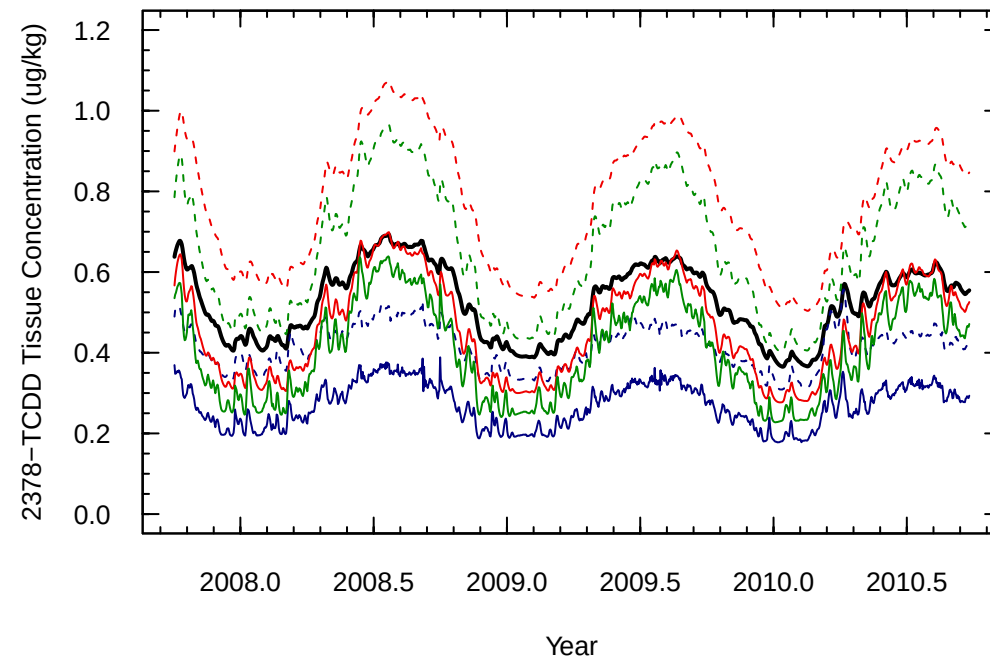
Zooplankton (RM 14.7–Dam)



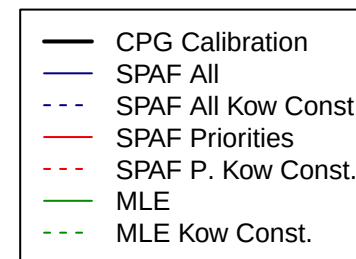
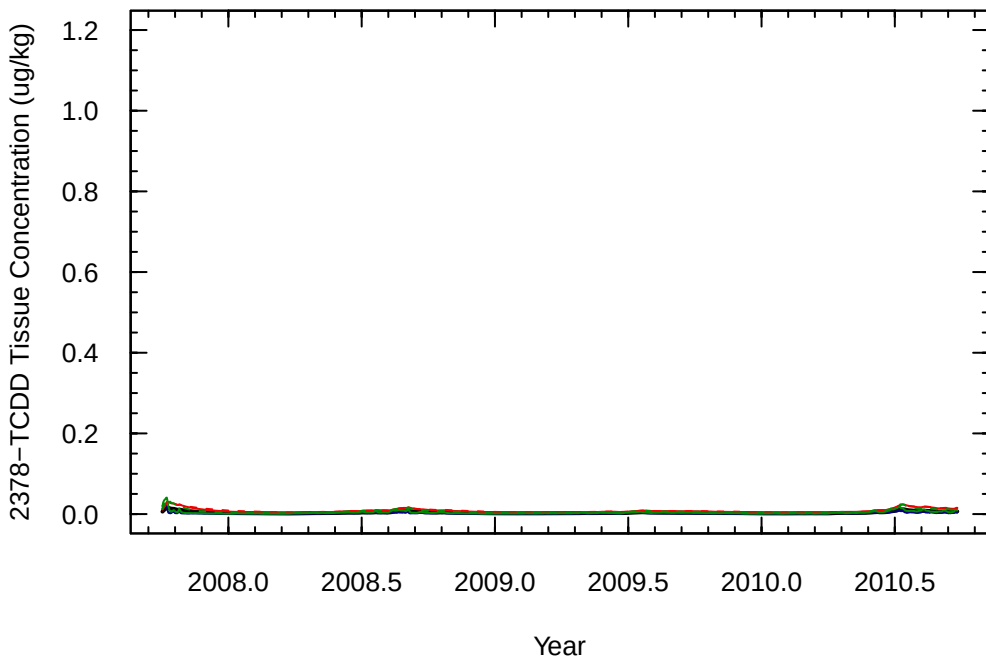
Benthic invert deposit feeder (RM 0–6)



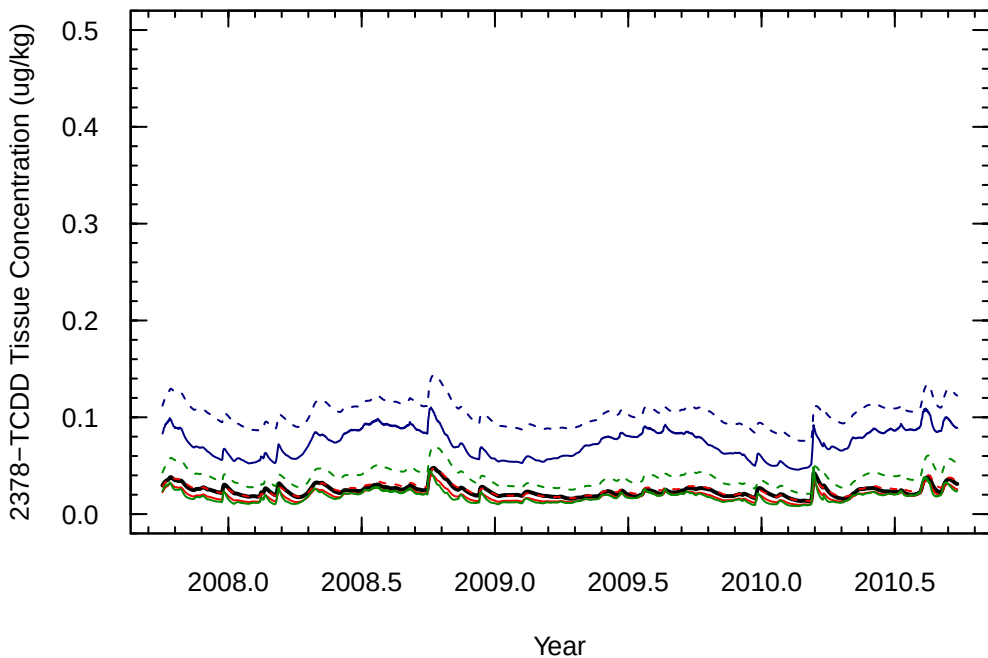
Benthic invert deposit feeder (RM 6–14.7)



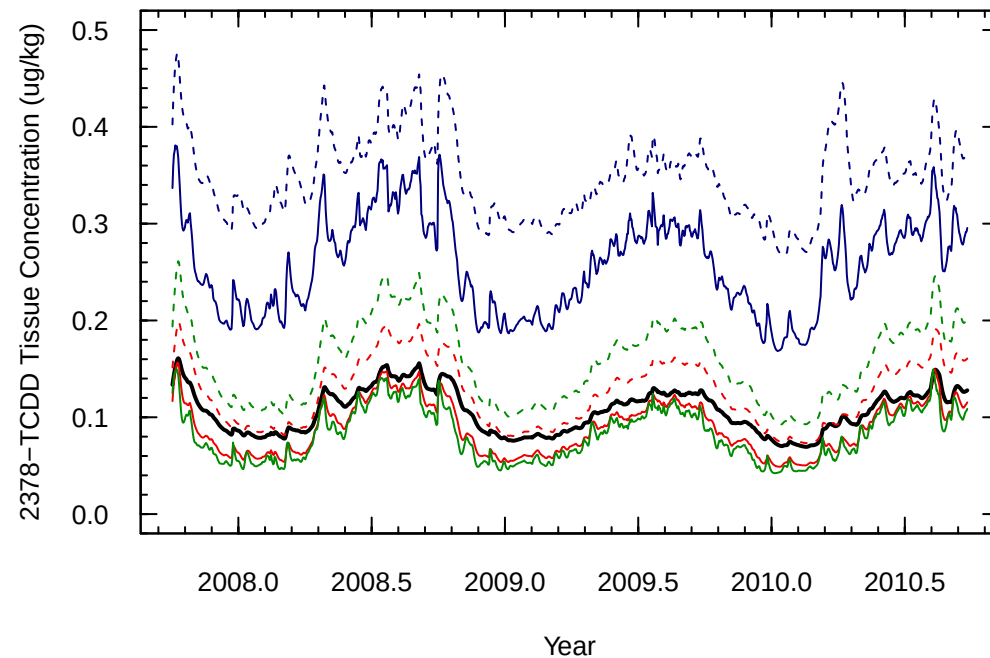
Benthic invert deposit feeder (RM 14.7–Dam)



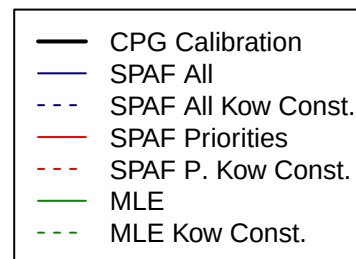
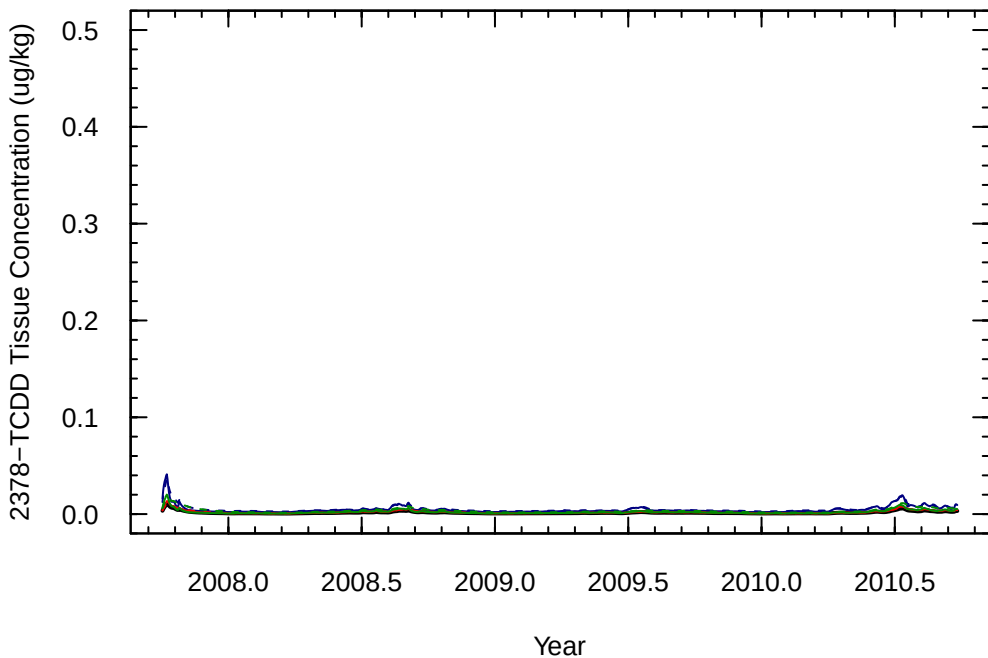
Benthic invert filter feeder (RM 0–6)



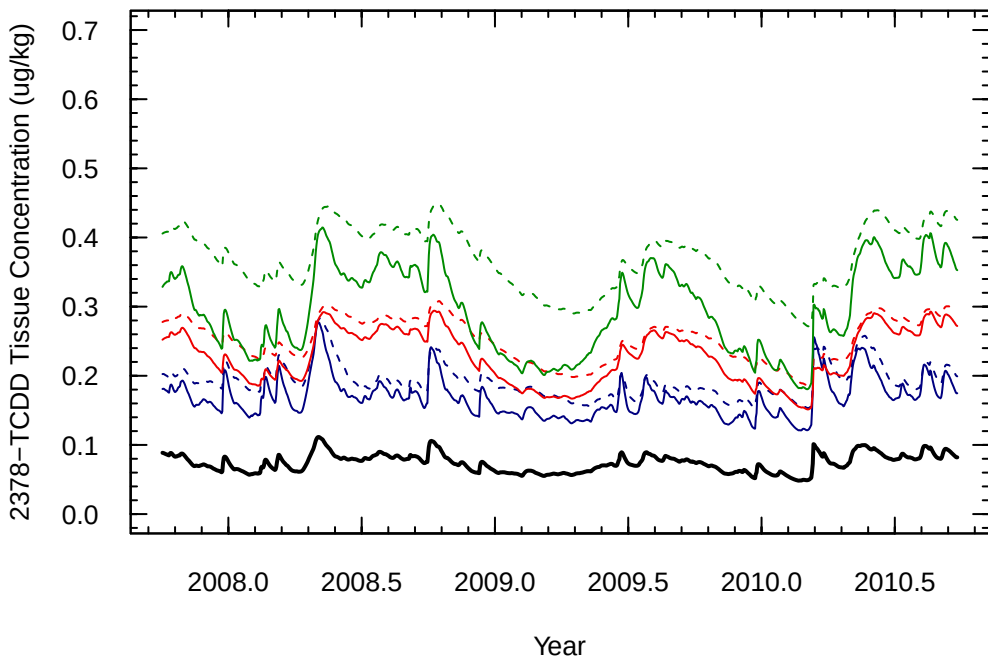
Benthic invert filter feeder (RM 6–14.7)



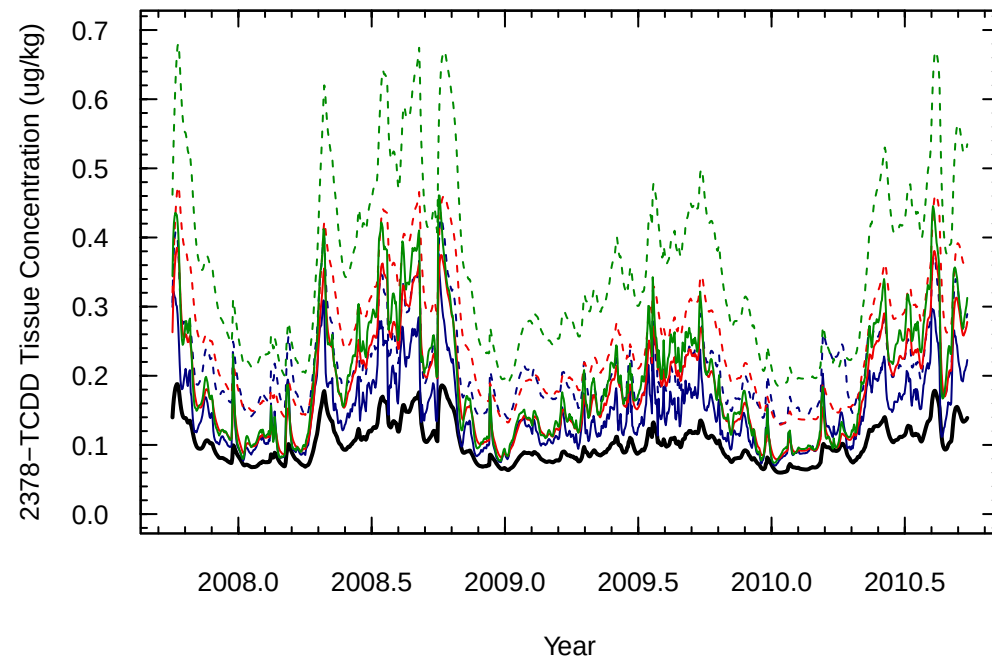
Benthic invert filter feeder (RM 14.7–Dam)



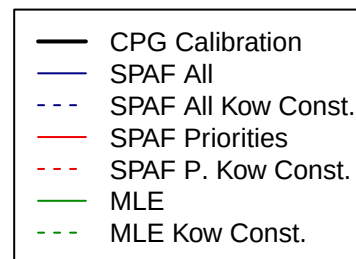
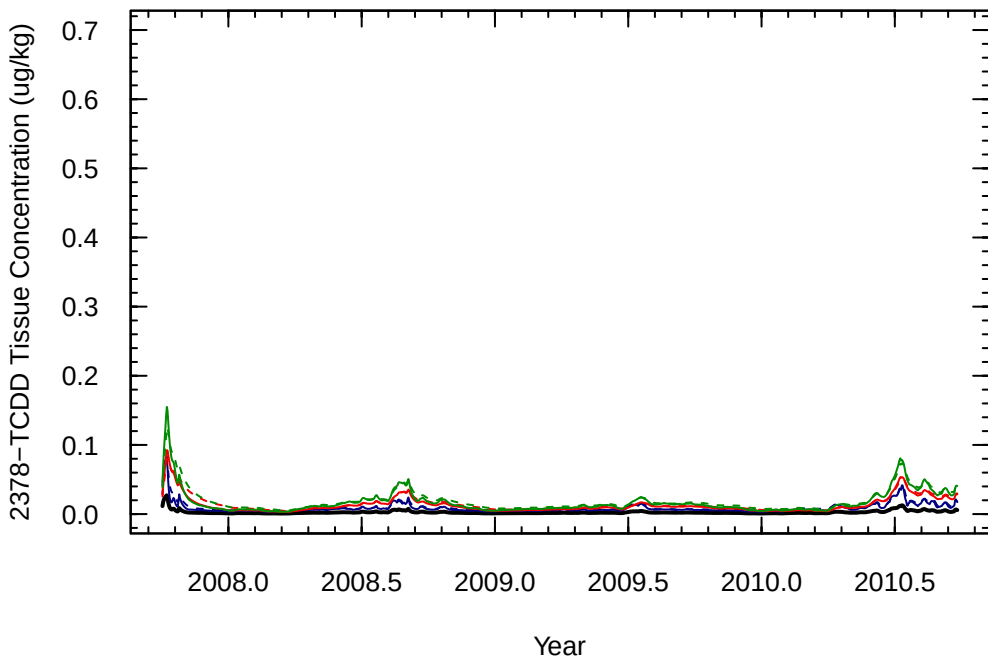
Benthic invert detritivore (RM 0–6)



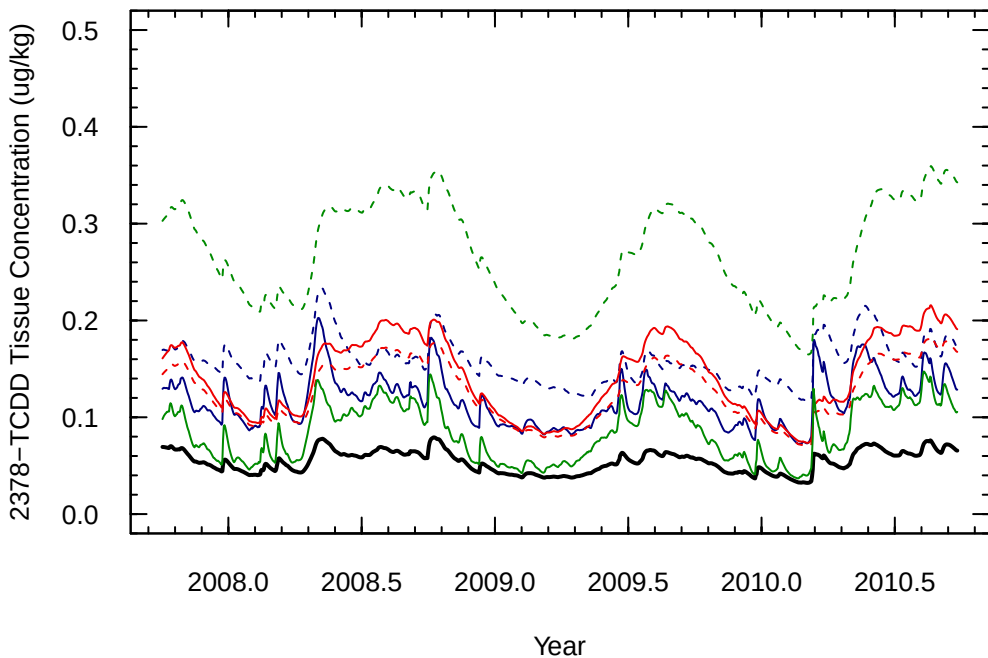
Benthic invert detritivore (RM 6–14.7)



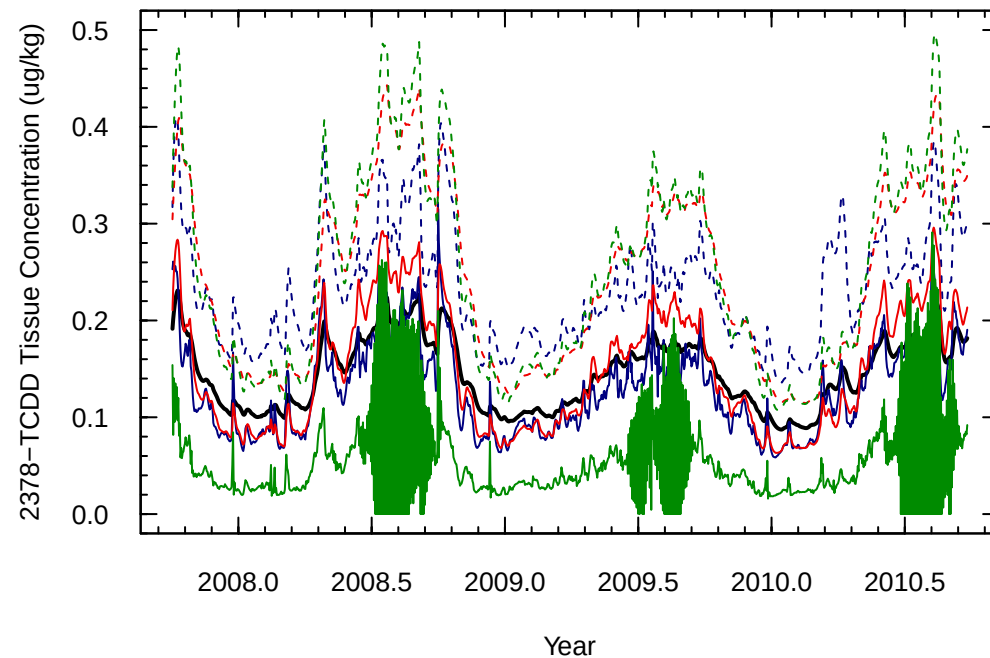
Benthic invert detritivore (RM 14.7–Dam)



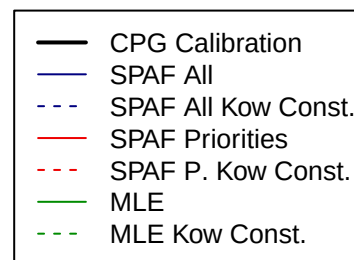
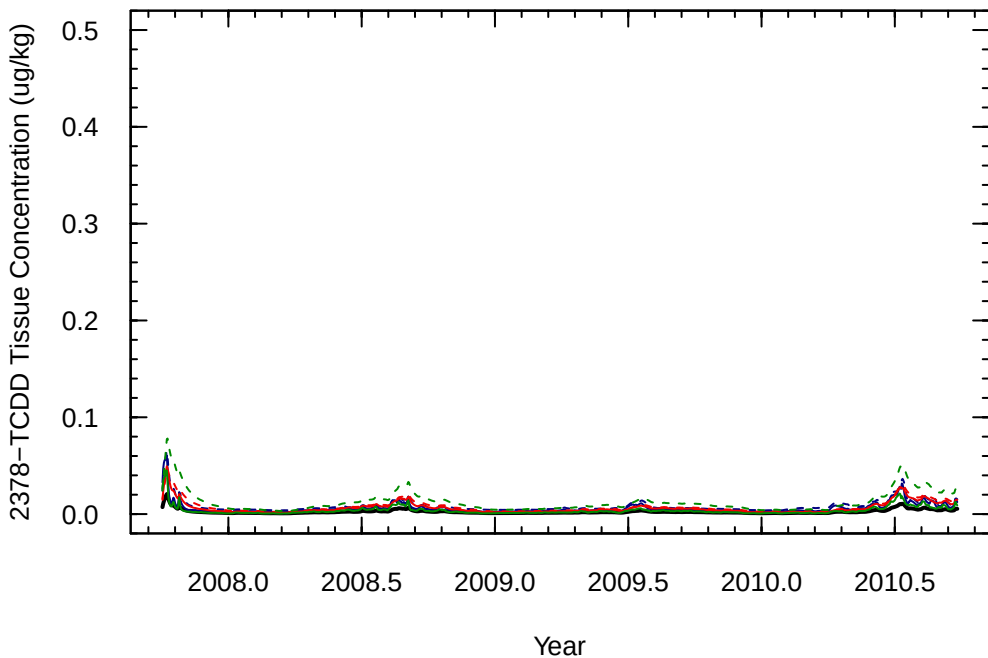
Benthic invert carnivore/omnivore (RM 0–6)



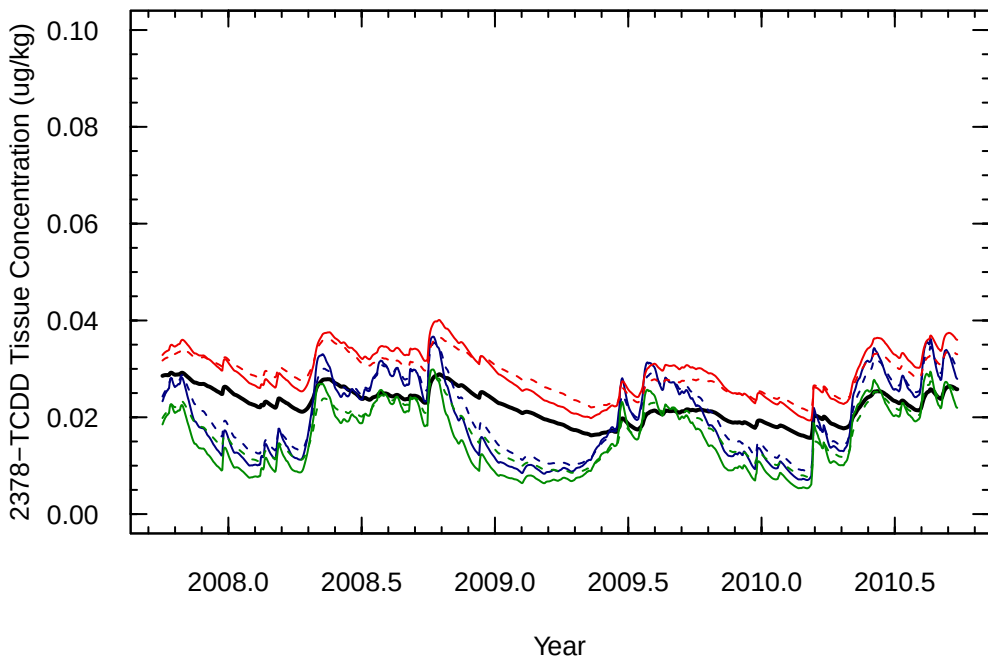
Benthic invert carnivore/omnivore (RM 6–14.7)



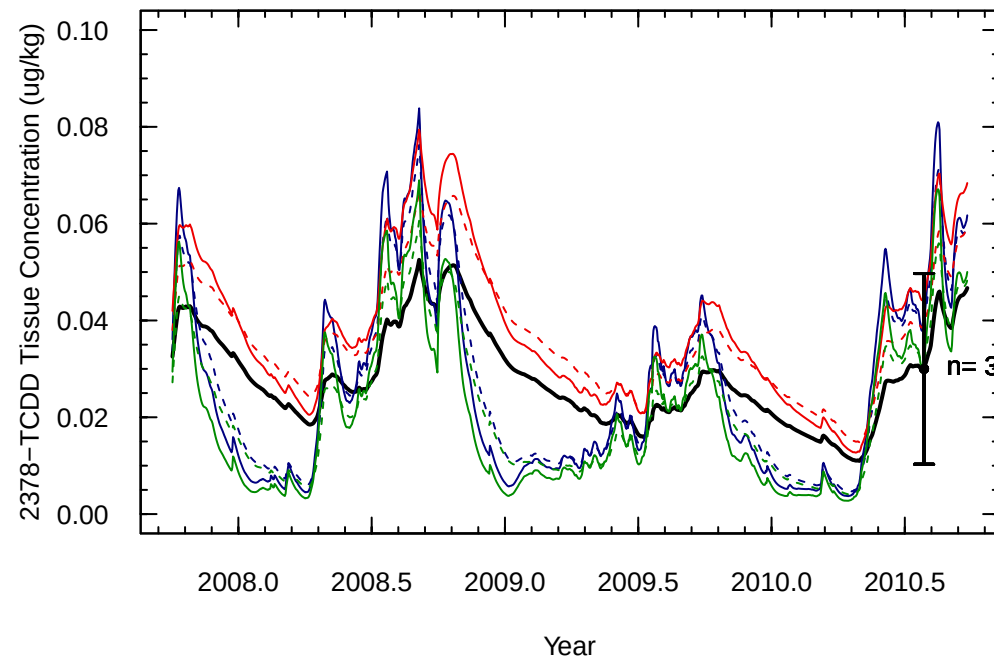
Benthic invert carnivore/omnivore (RM 14.7–Dam)



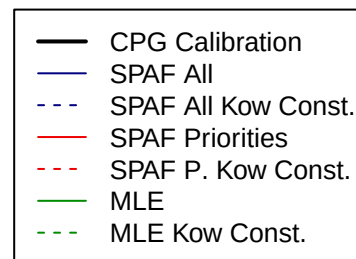
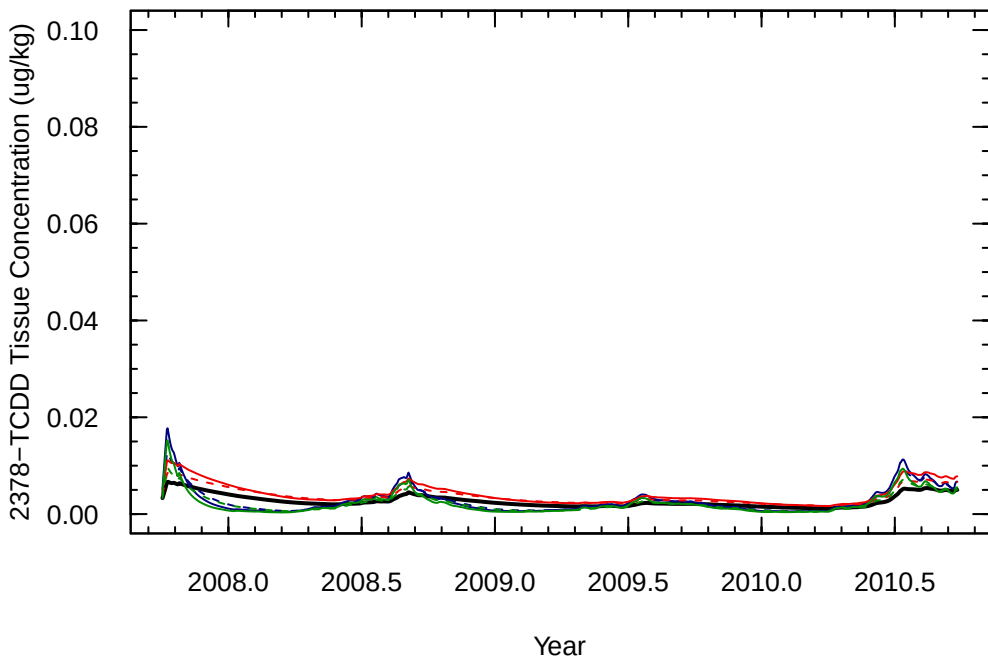
Small filter feeding fish (RM 0–6)



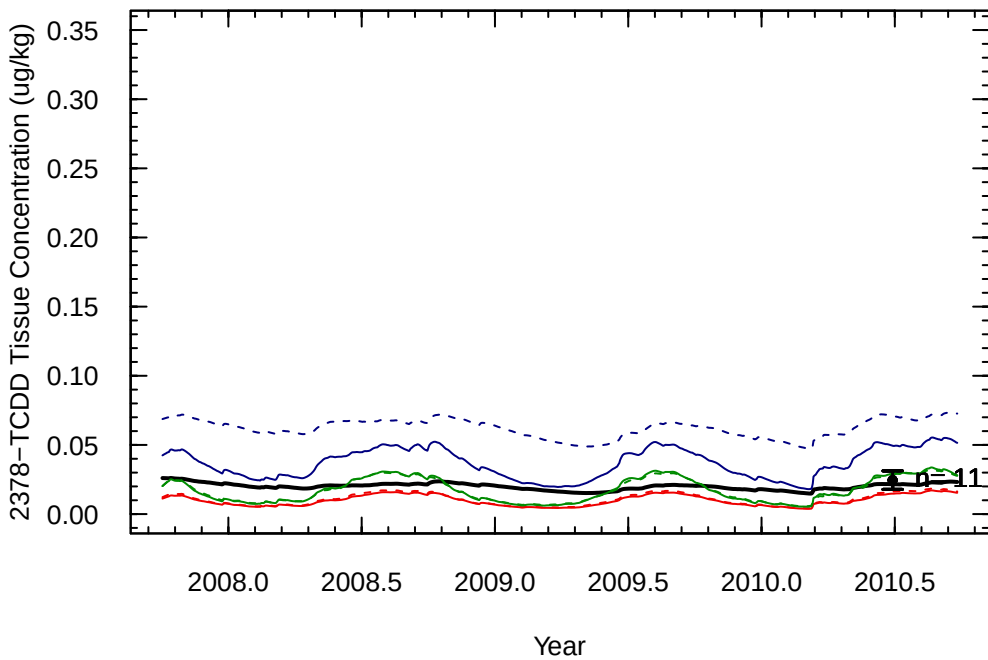
Small filter feeding fish (RM 6–14.7)



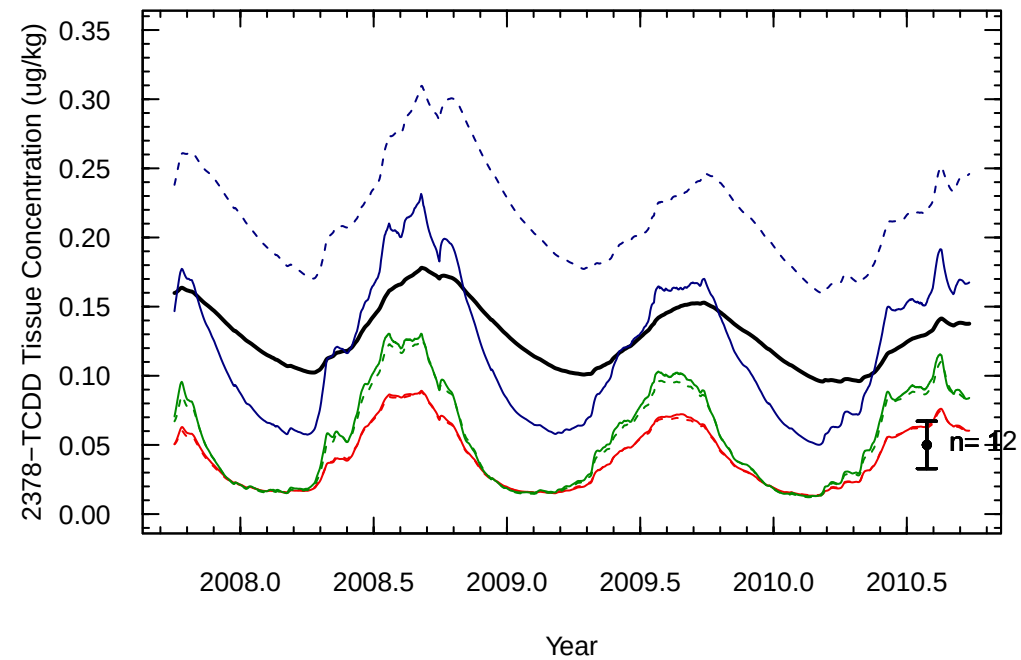
Small filter feeding fish (RM 14.7–Dam)



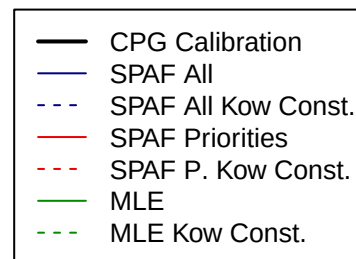
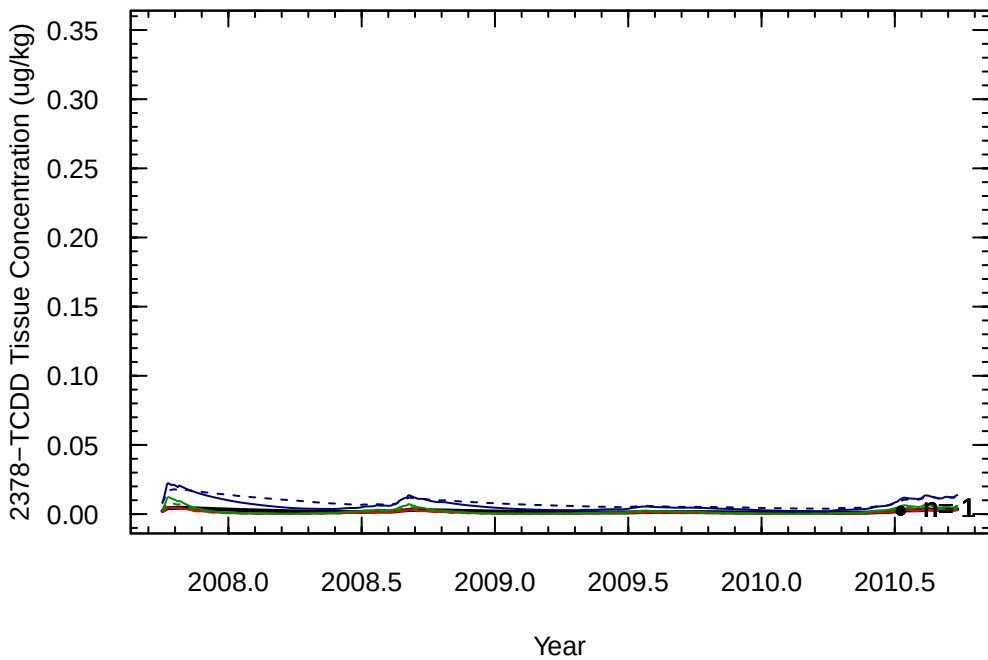
Small forage fish (RM 0–6)



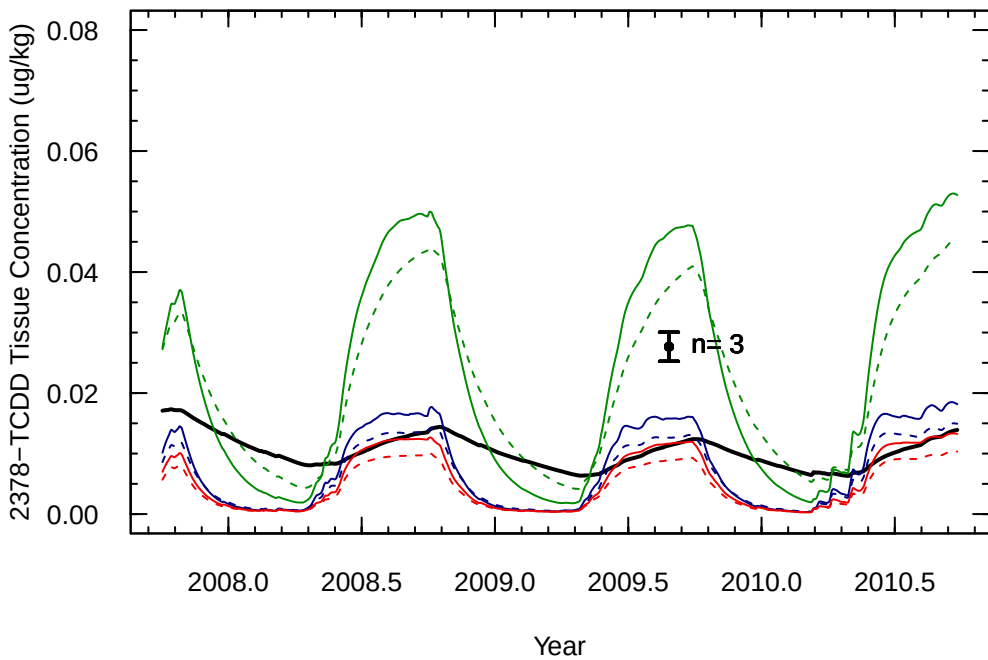
Small forage fish (RM 6–14.7)



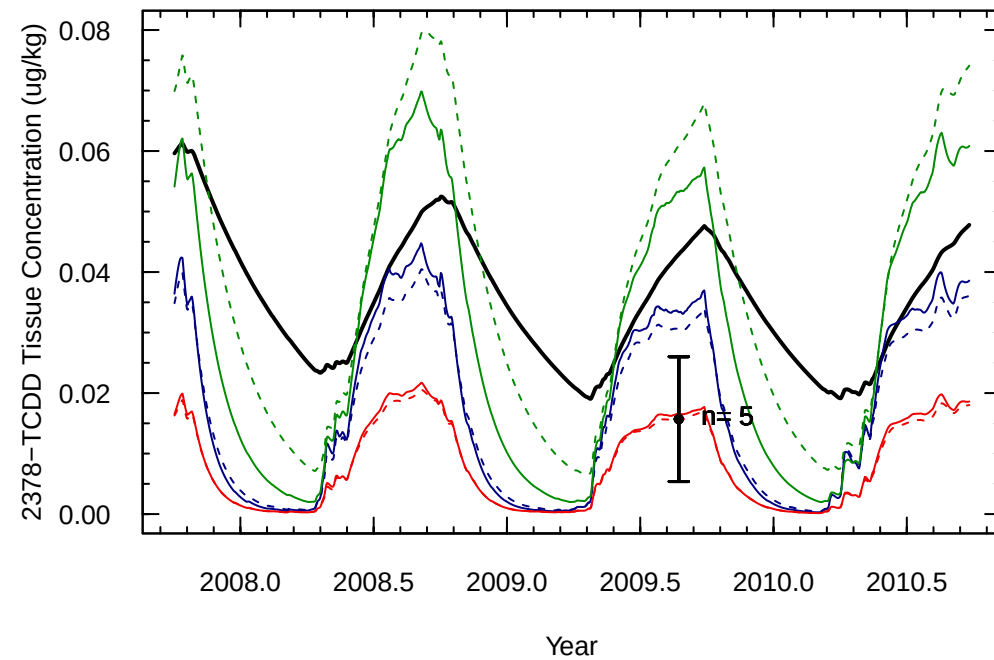
Small forage fish (RM 14.7–Dam)



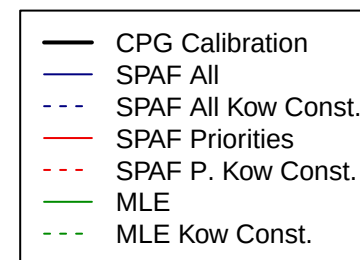
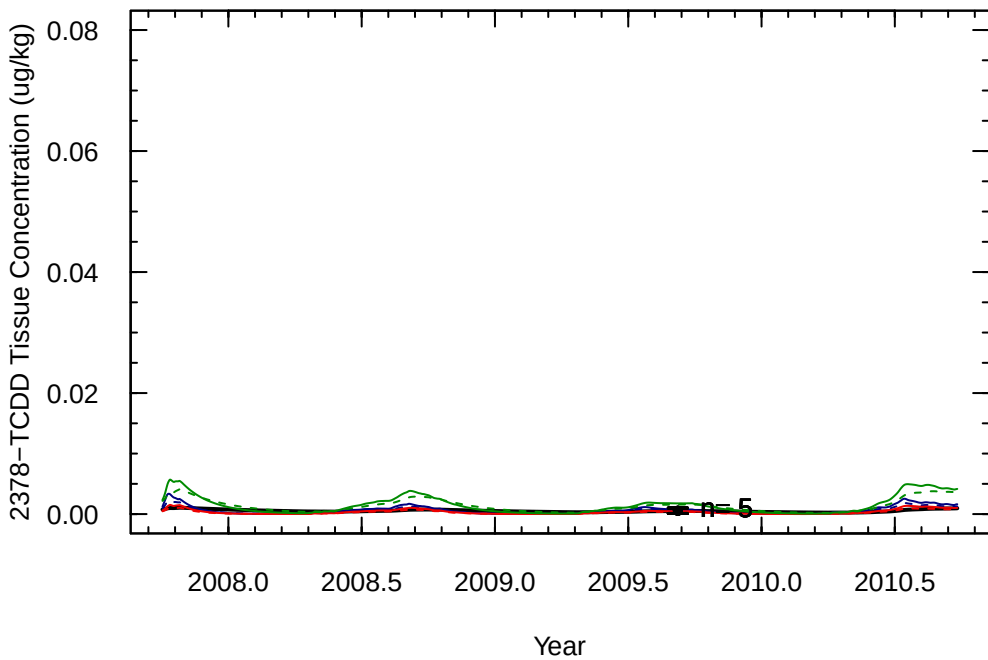
Small American eel (RM 0–6)



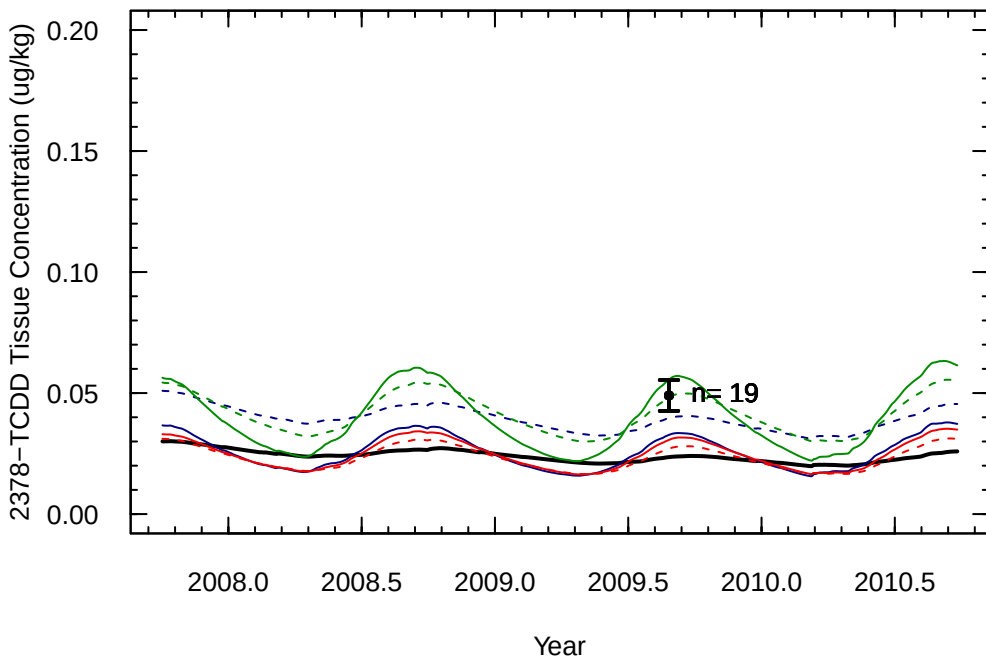
Small American eel (RM 6–14.7)



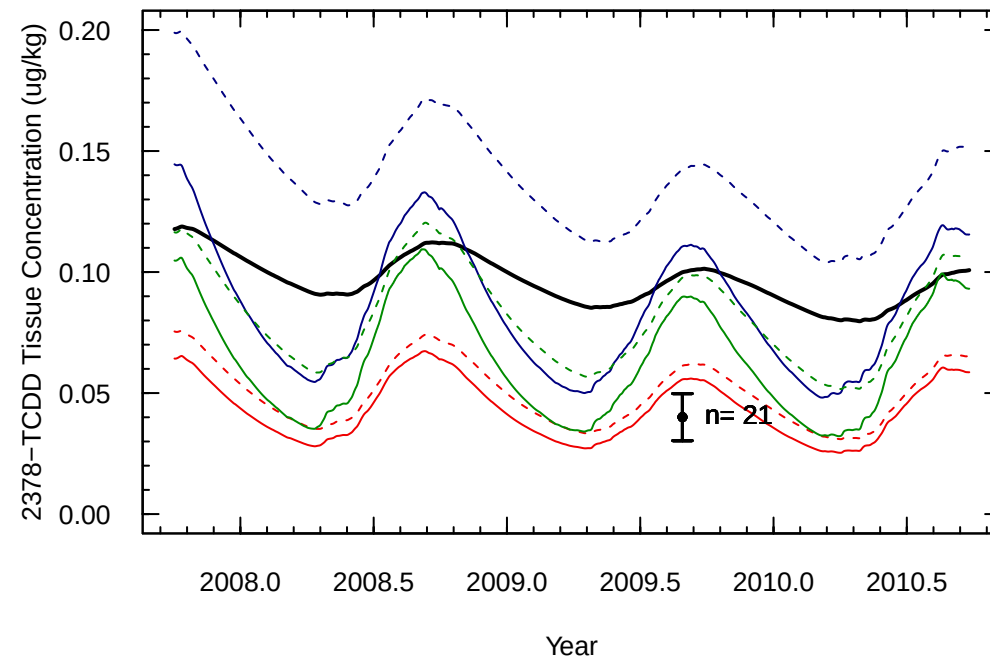
Small American eel (RM 14.7–Dam)



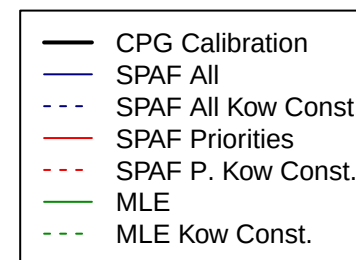
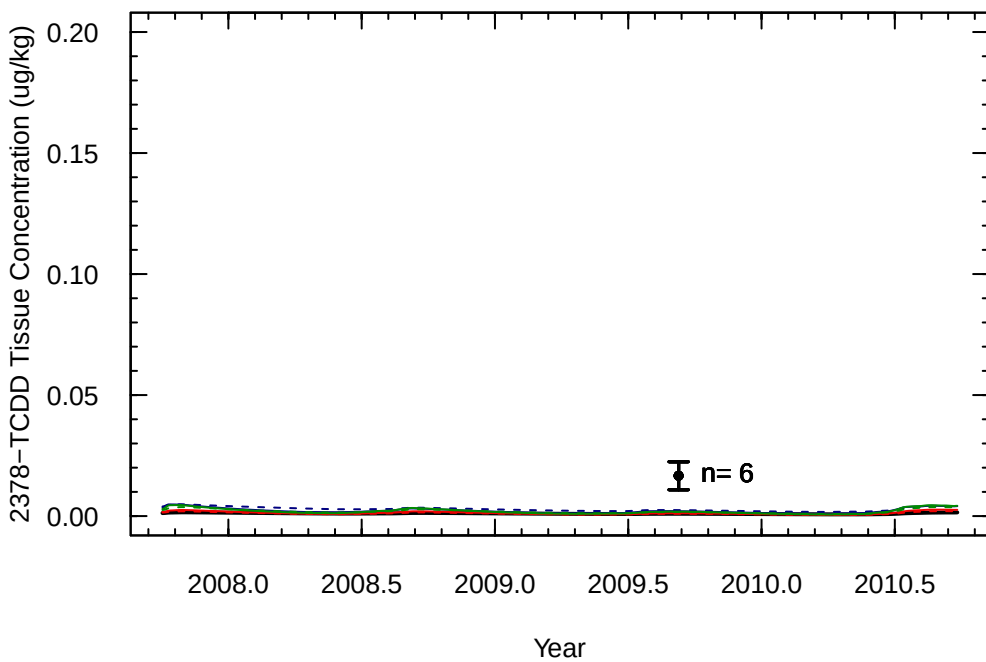
Blue crab (RM 0–6)



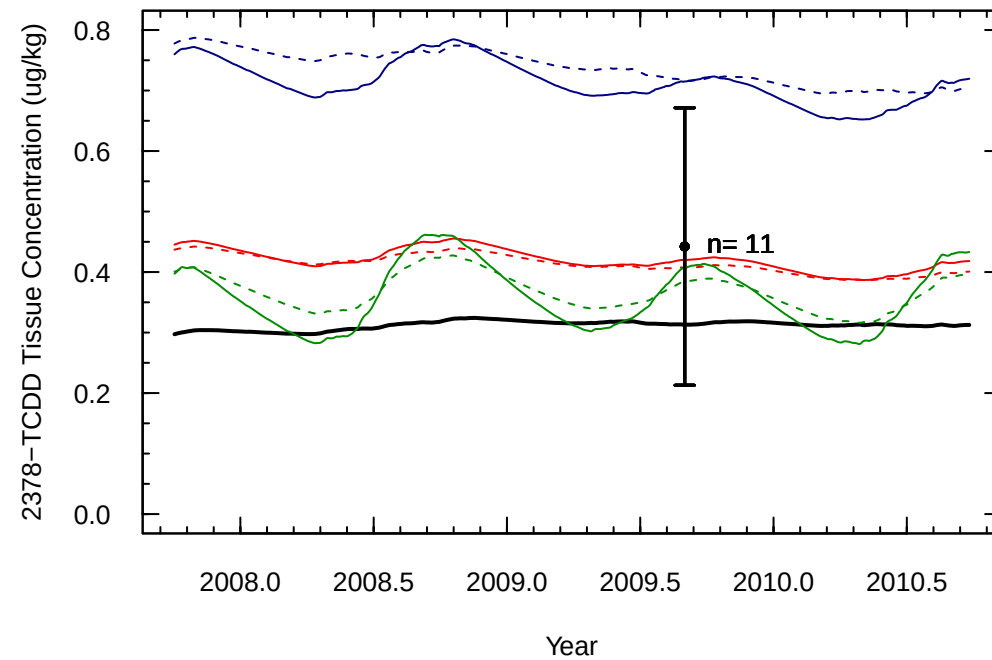
Blue crab (RM 6–14.7)



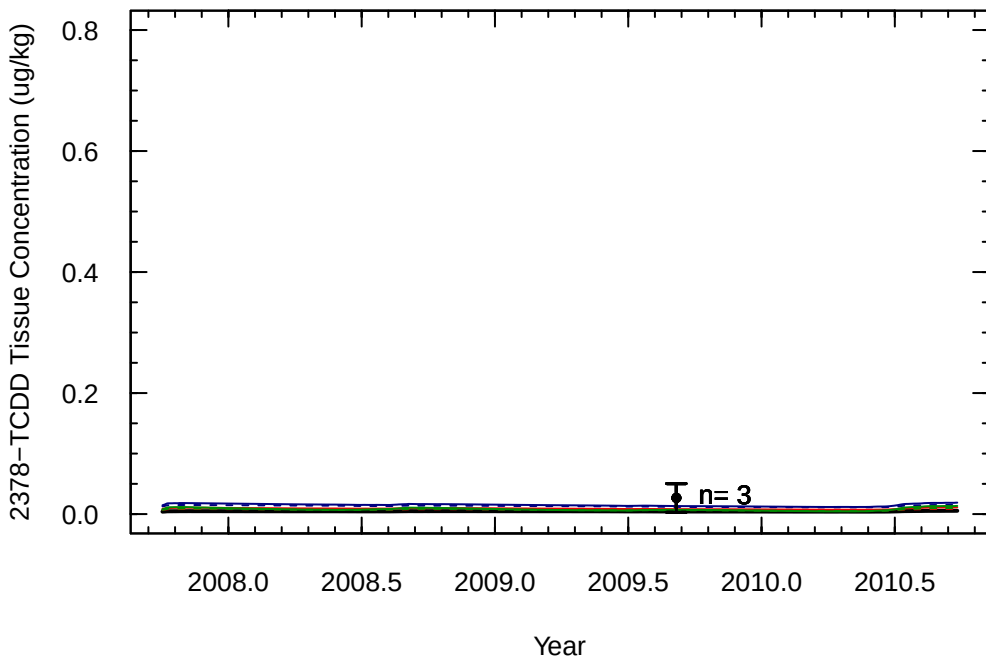
Blue crab (RM 14.7–Dam)



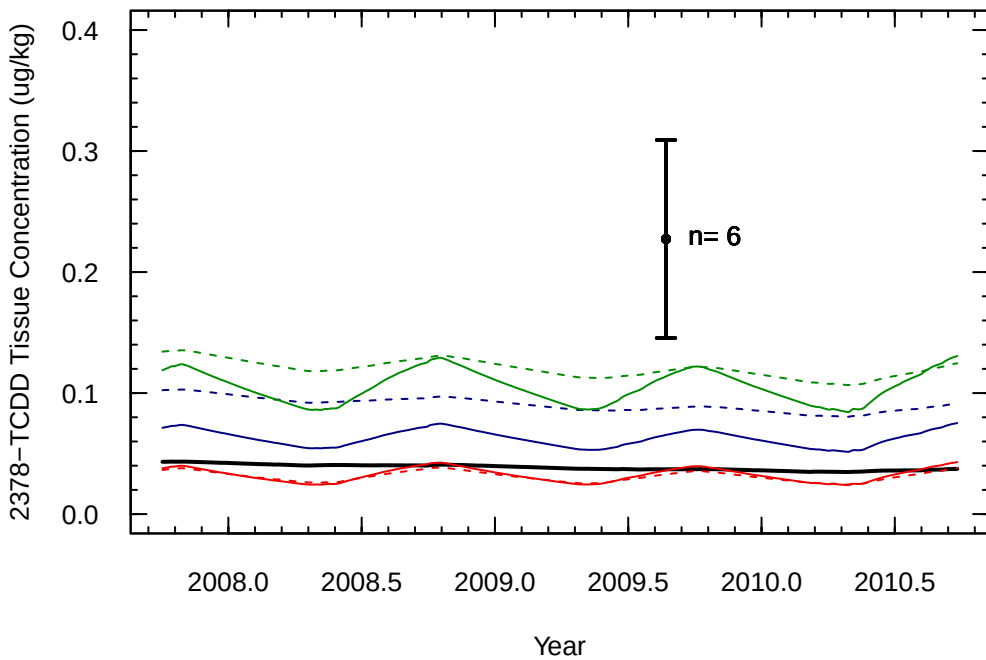
Carp (RM 6–14.7)



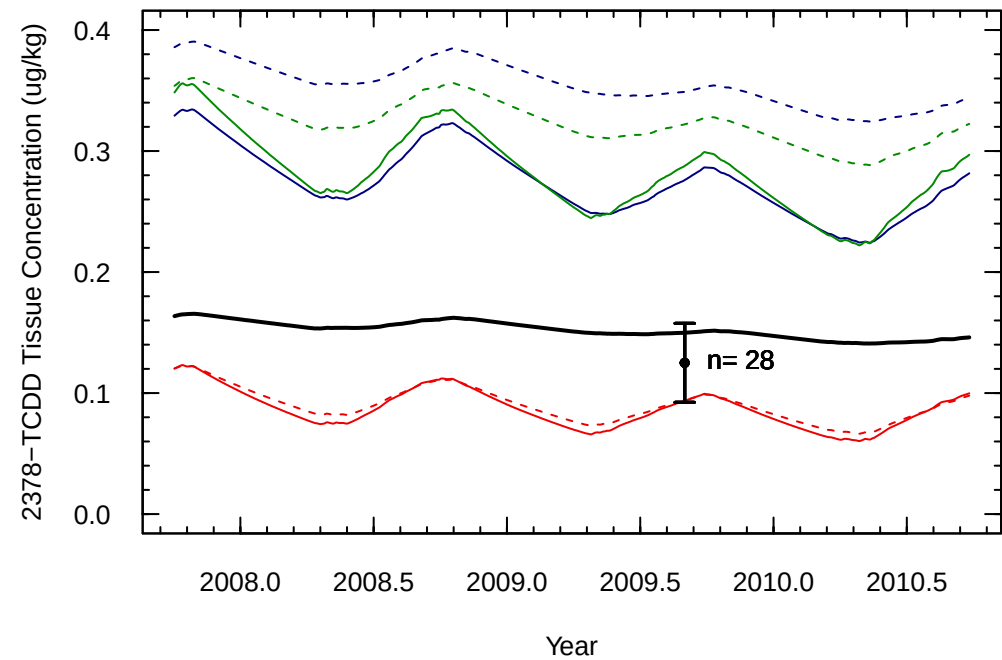
Carp (RM 14.7–Dam)



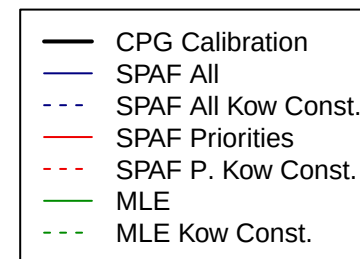
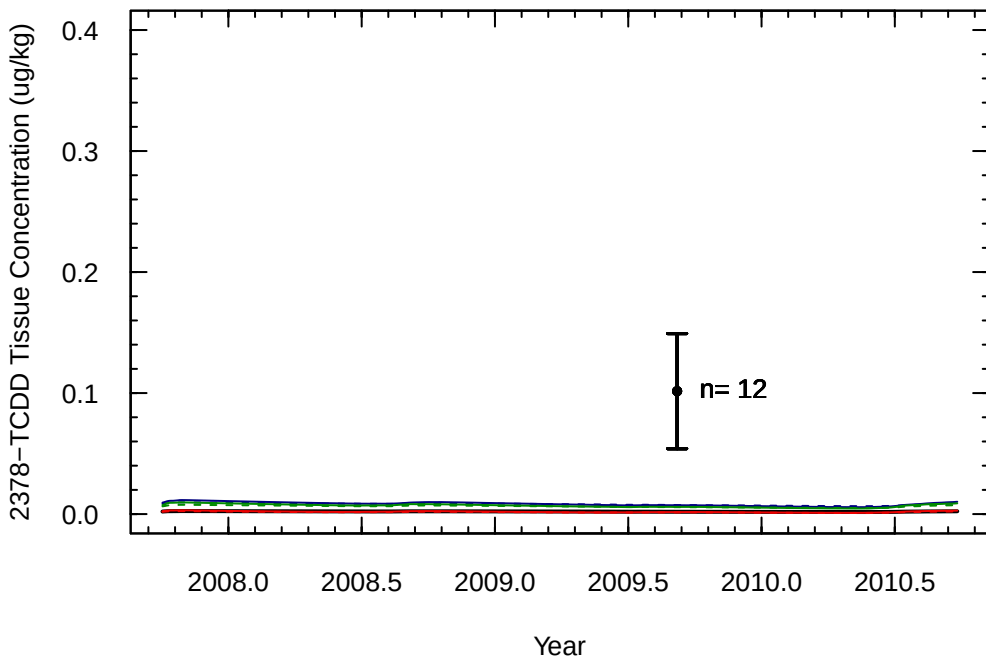
Catfish (RM 0–6)



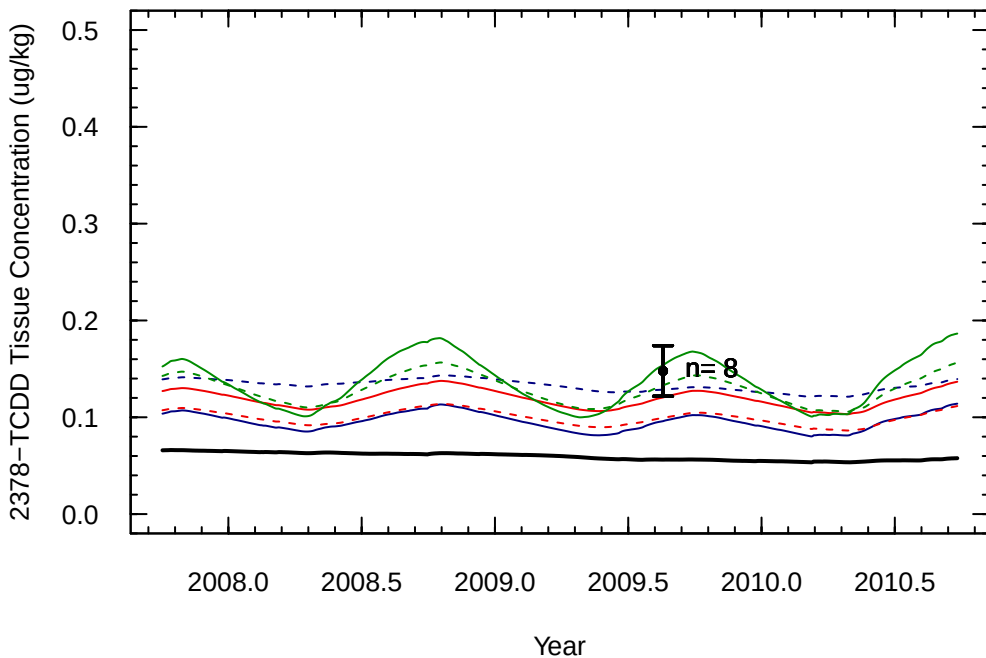
Catfish (RM 6–14.7)



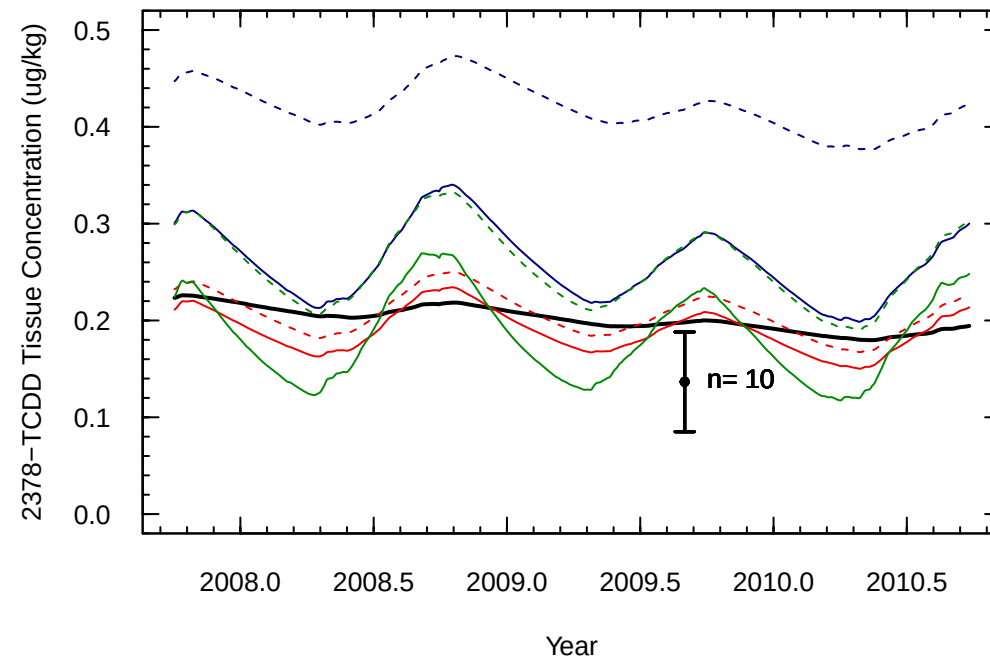
Catfish (RM 14.7–Dam)



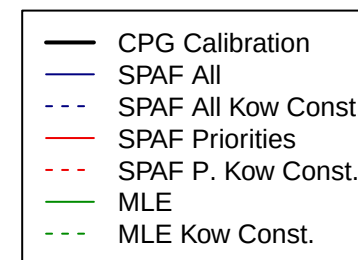
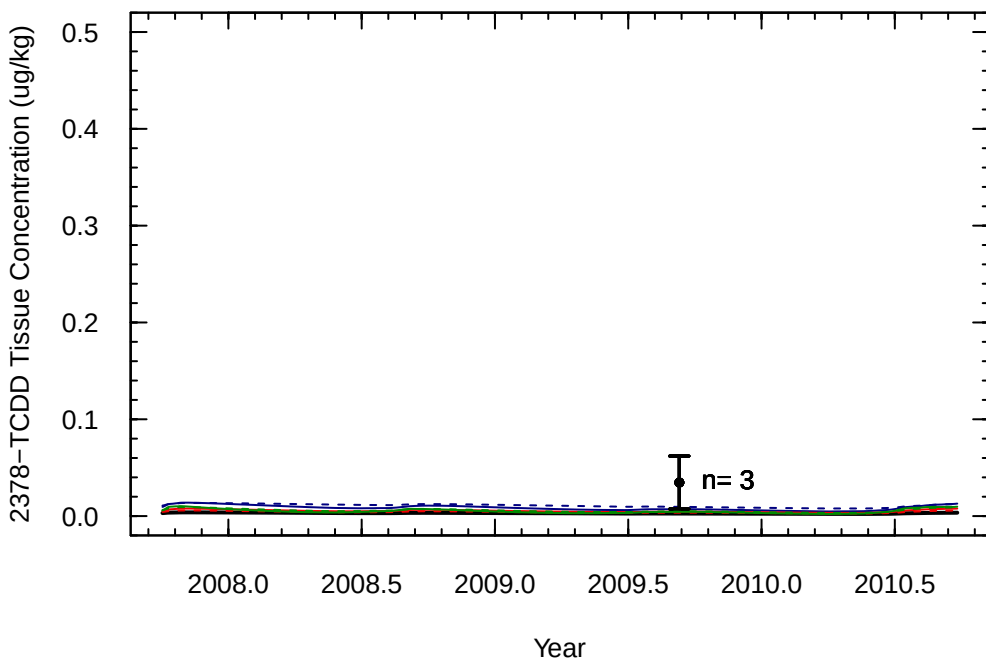
White perch (RM 0–6)



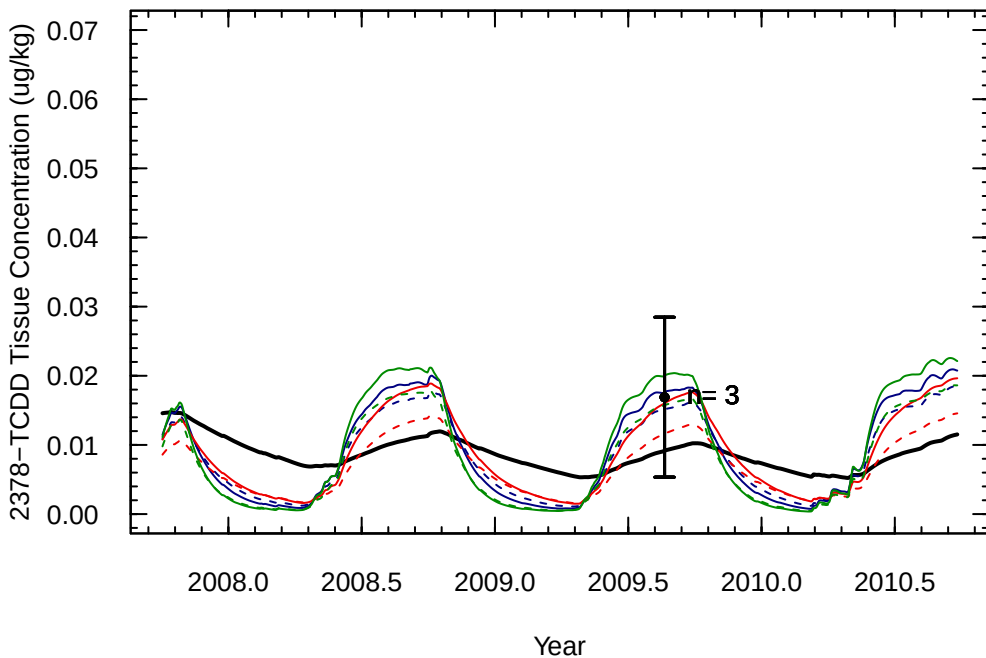
White perch (RM 6–14.7)



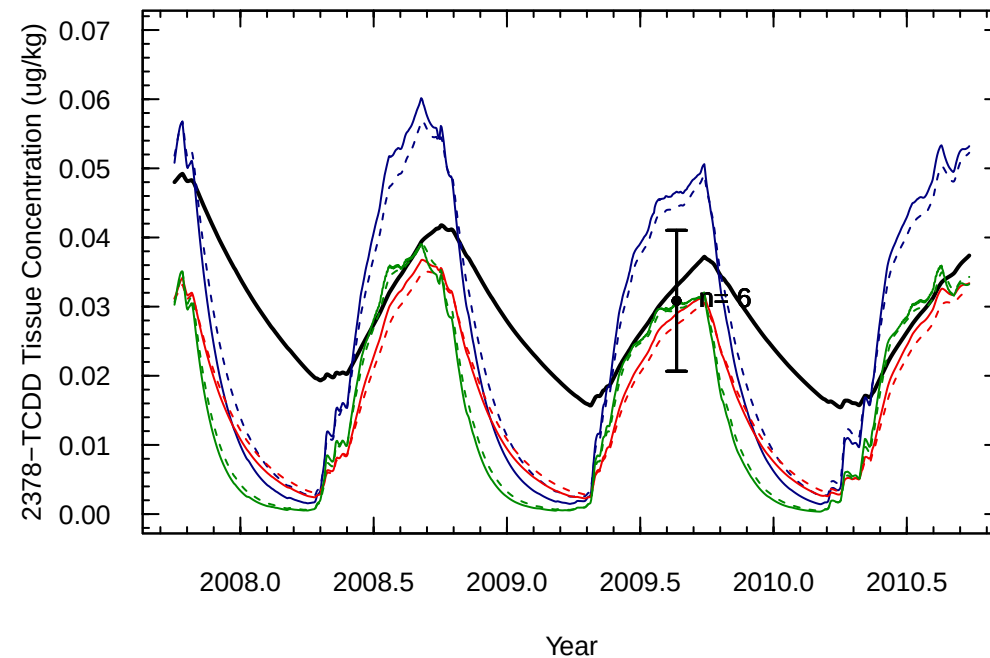
White perch (RM 14.7–Dam)



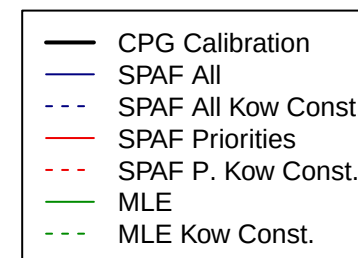
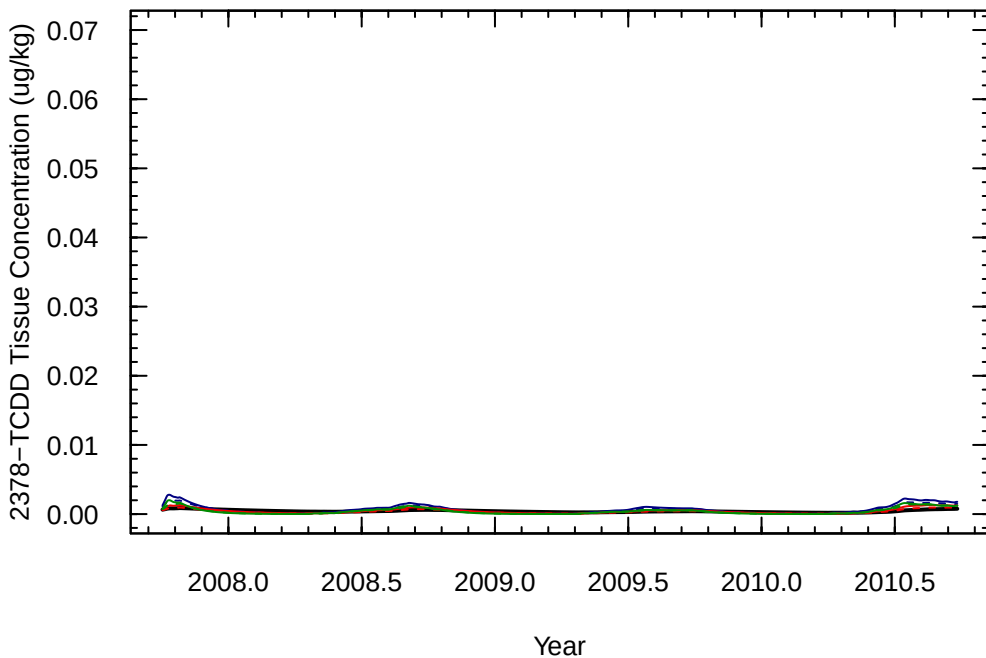
Large American eel (RM 0–6)



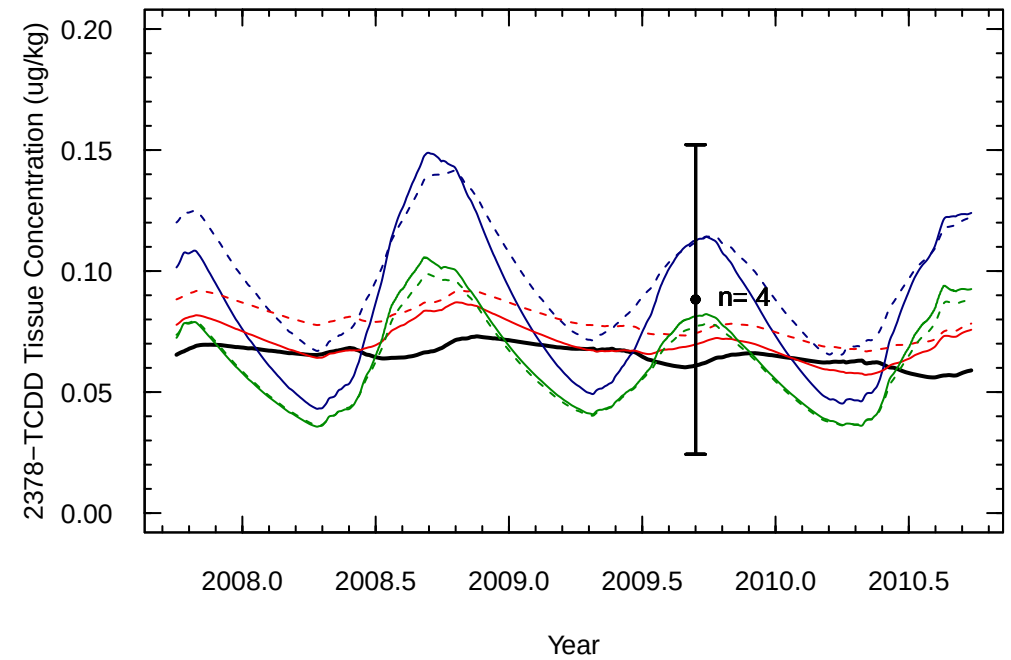
Large American eel (RM 6–14.7)



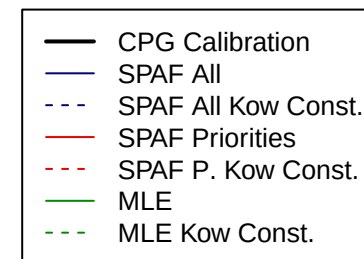
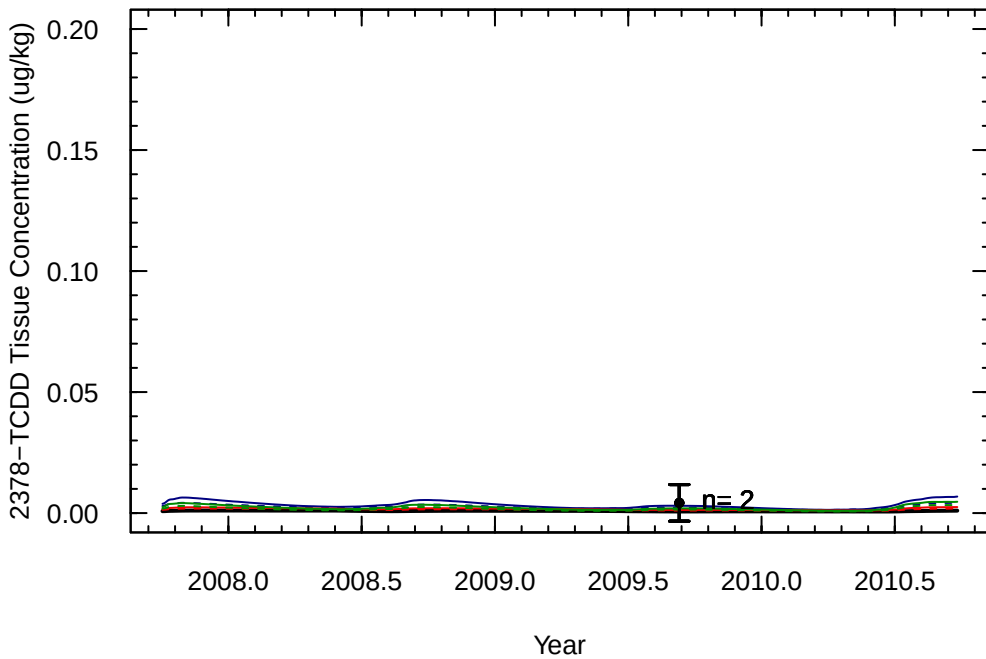
Large American eel (RM 14.7–Dam)



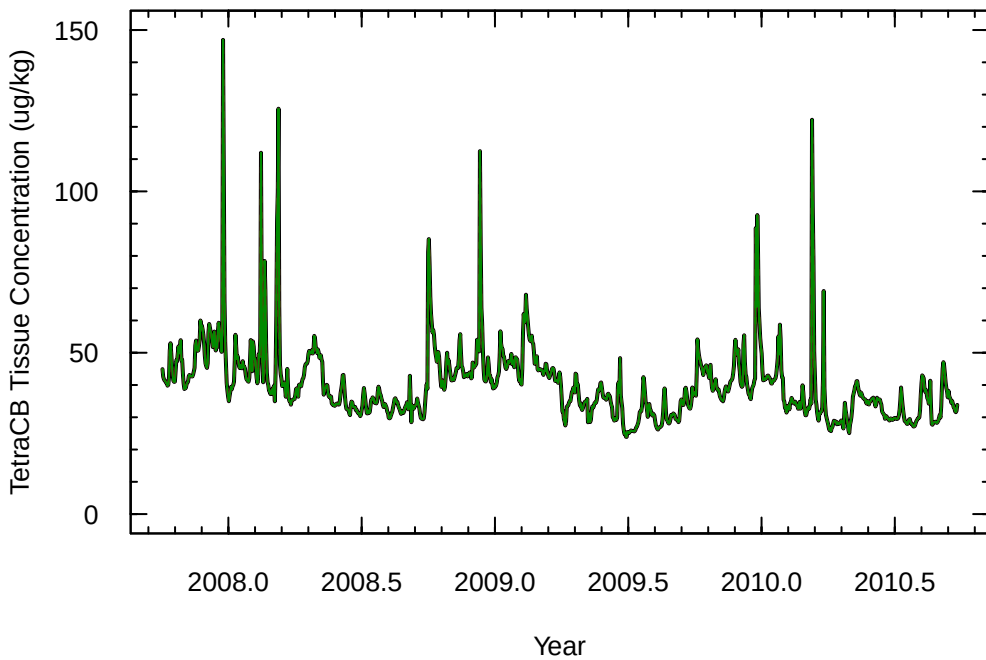
Bass (RM 6–14.7)



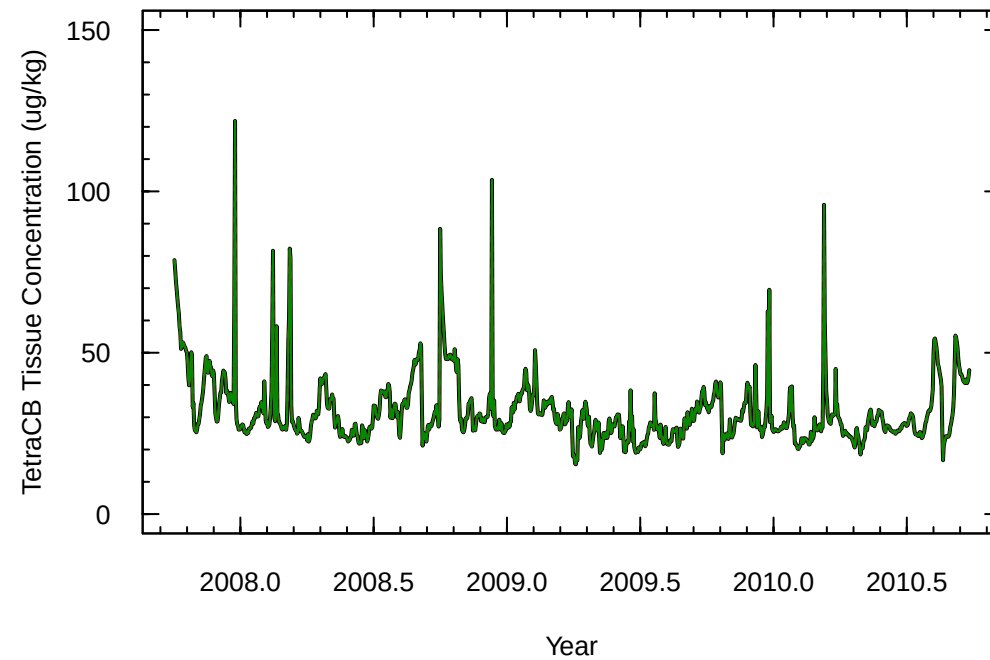
Bass (RM 14.7–Dam)



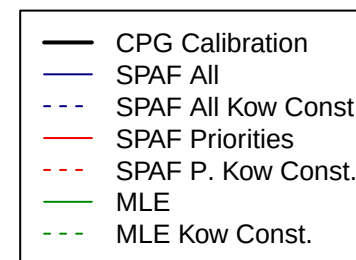
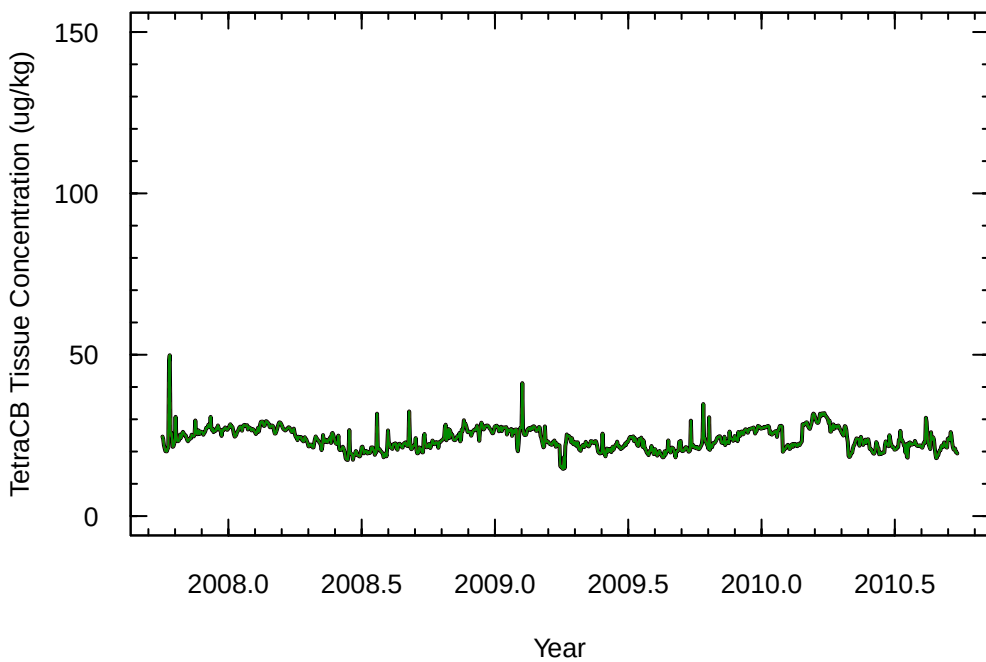
Phytoplankton (RM 0–6)



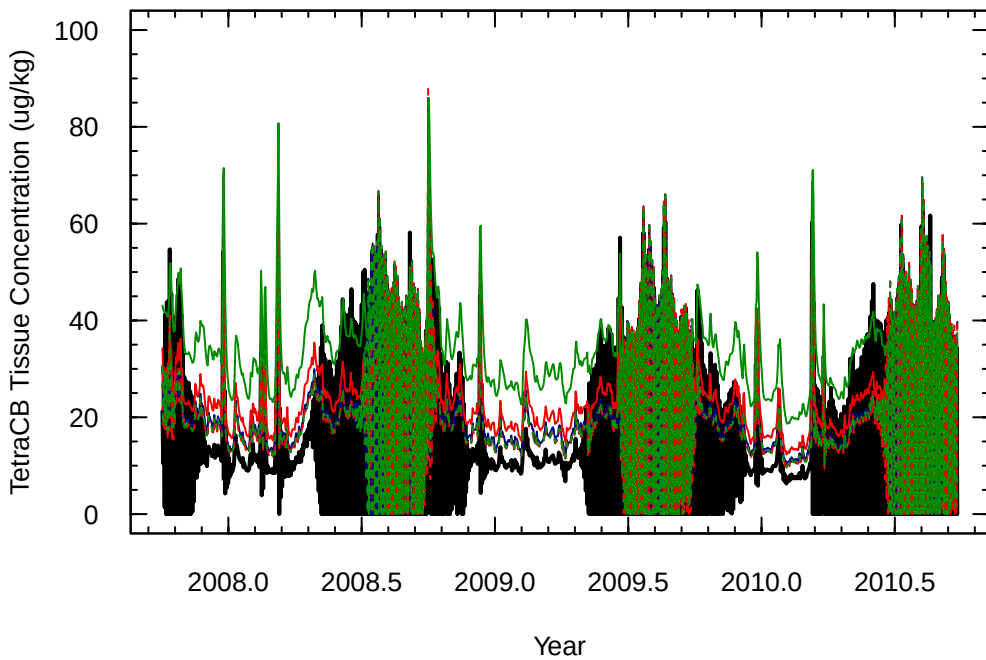
Phytoplankton (RM 6–14.7)



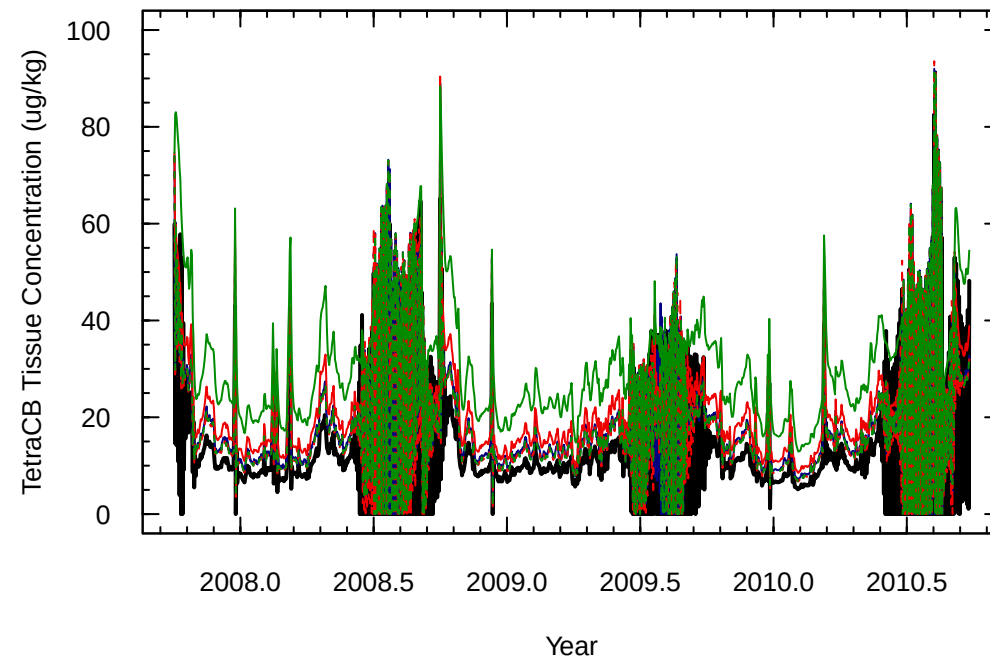
Phytoplankton (RM 14.7–Dam)



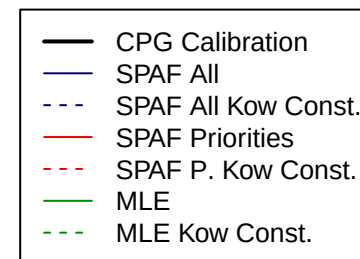
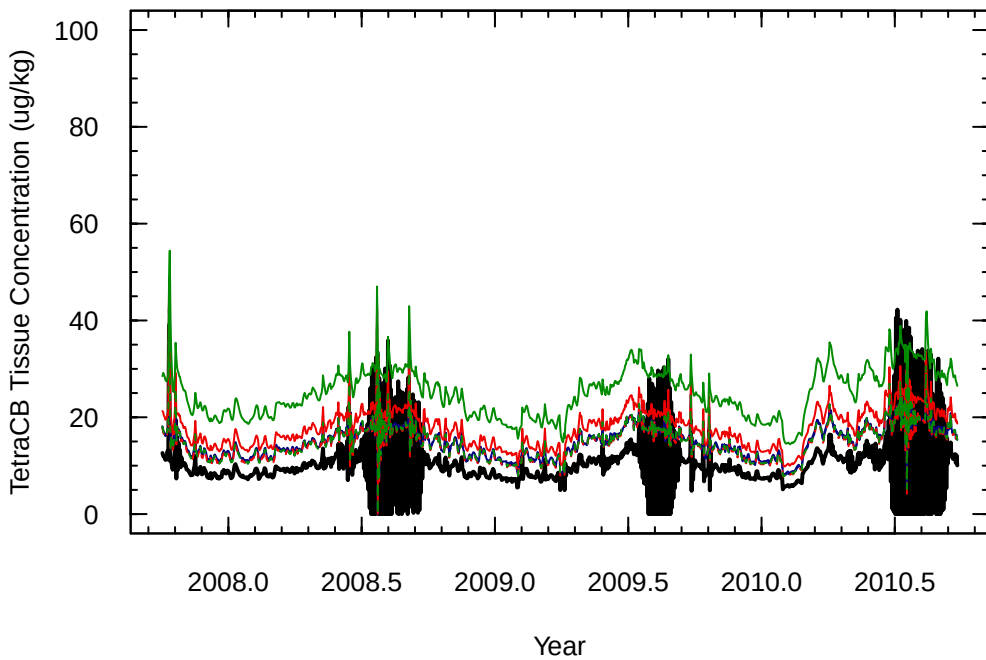
Zooplankton (RM 0–6)



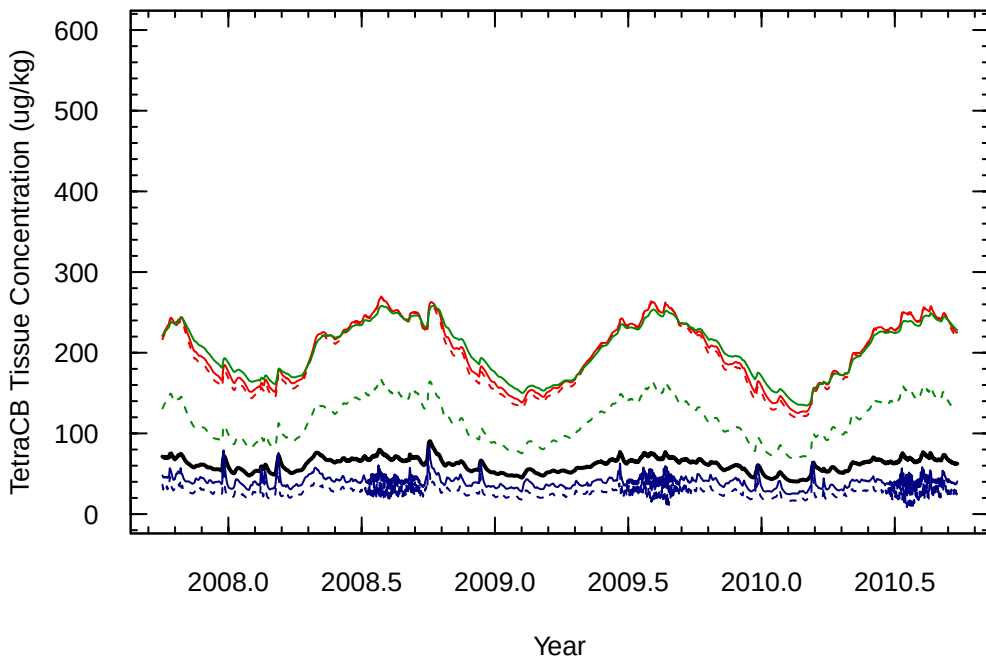
Zooplankton (RM 6–14.7)



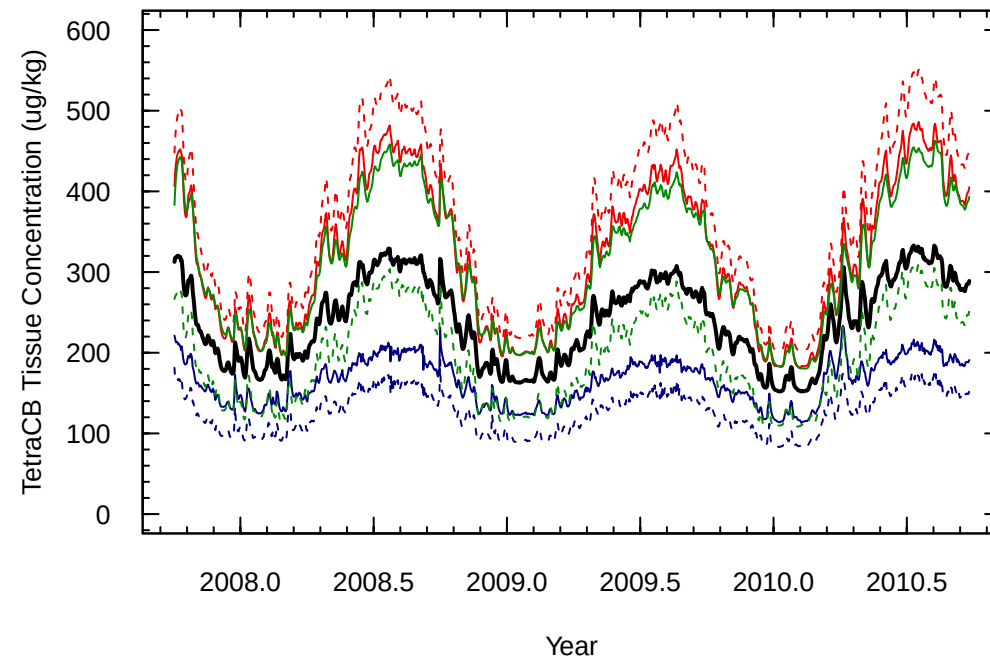
Zooplankton (RM 14.7–Dam)



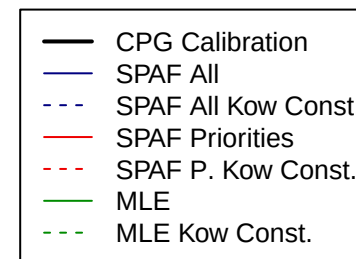
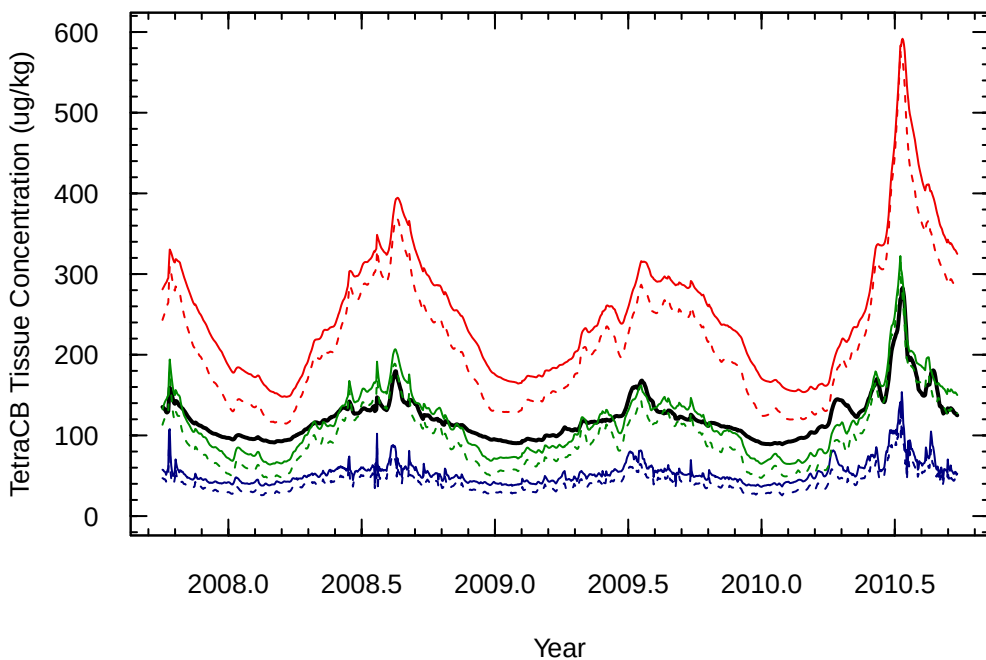
Benthic invert deposit feeder (RM 0–6)



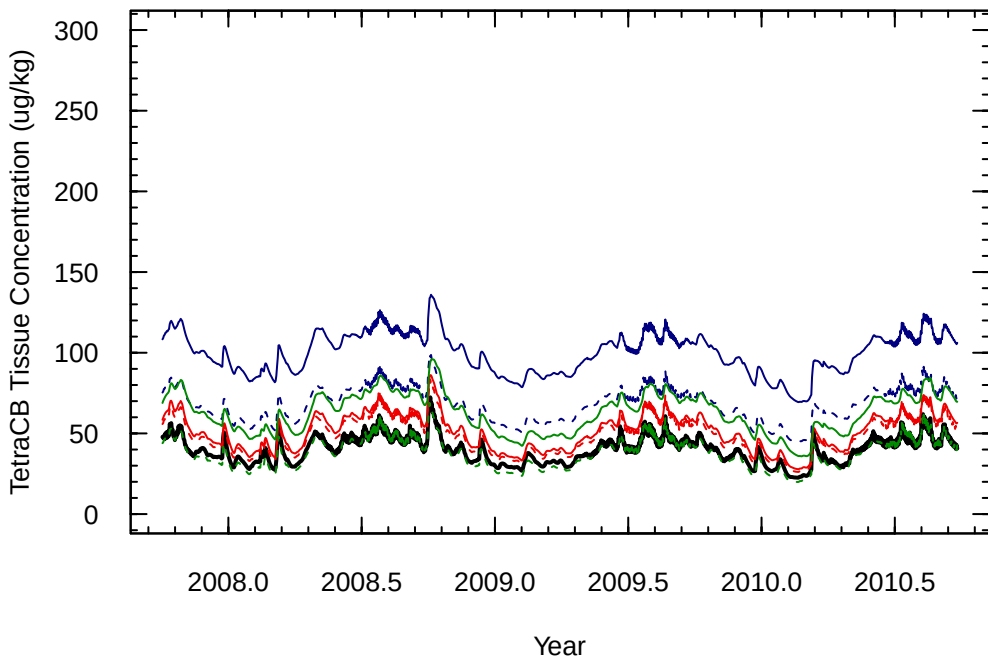
Benthic invert deposit feeder (RM 6–14.7)



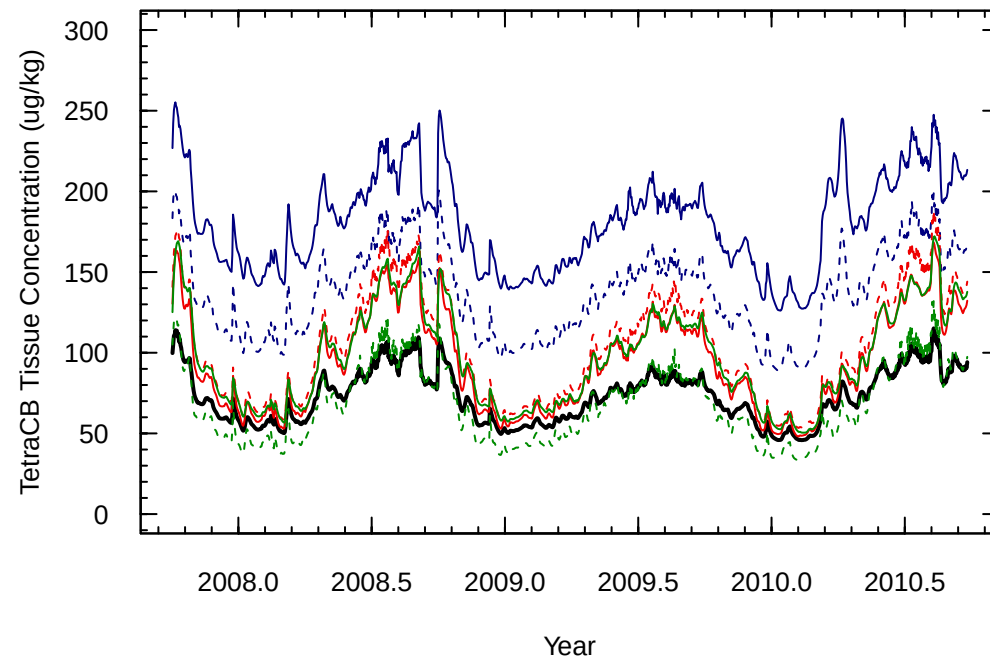
Benthic invert deposit feeder (RM 14.7–Dam)



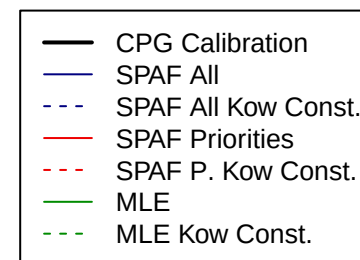
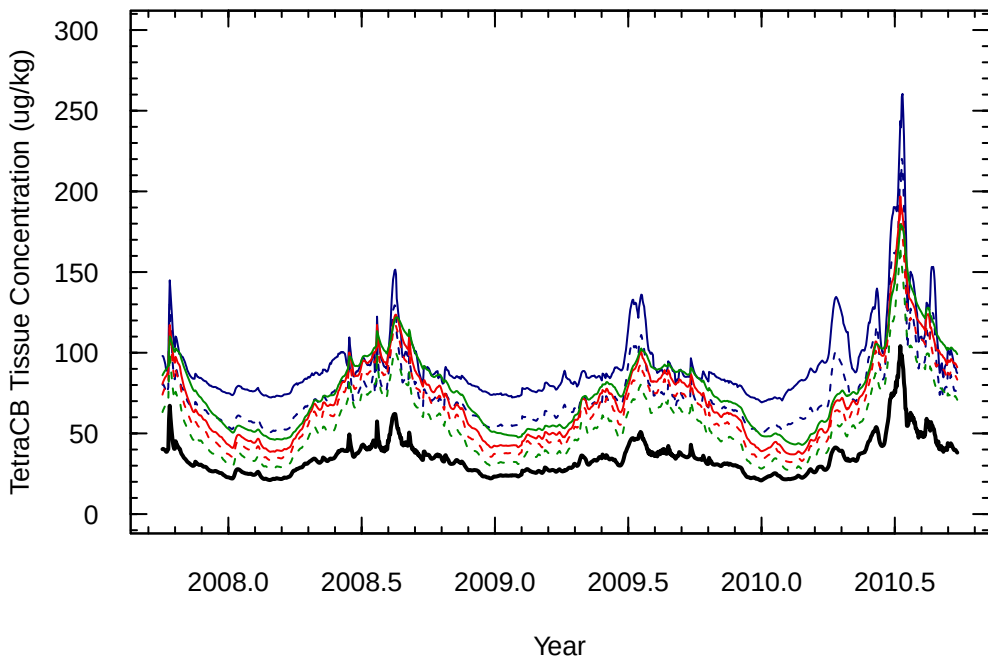
Benthic invert filter feeder (RM 0–6)



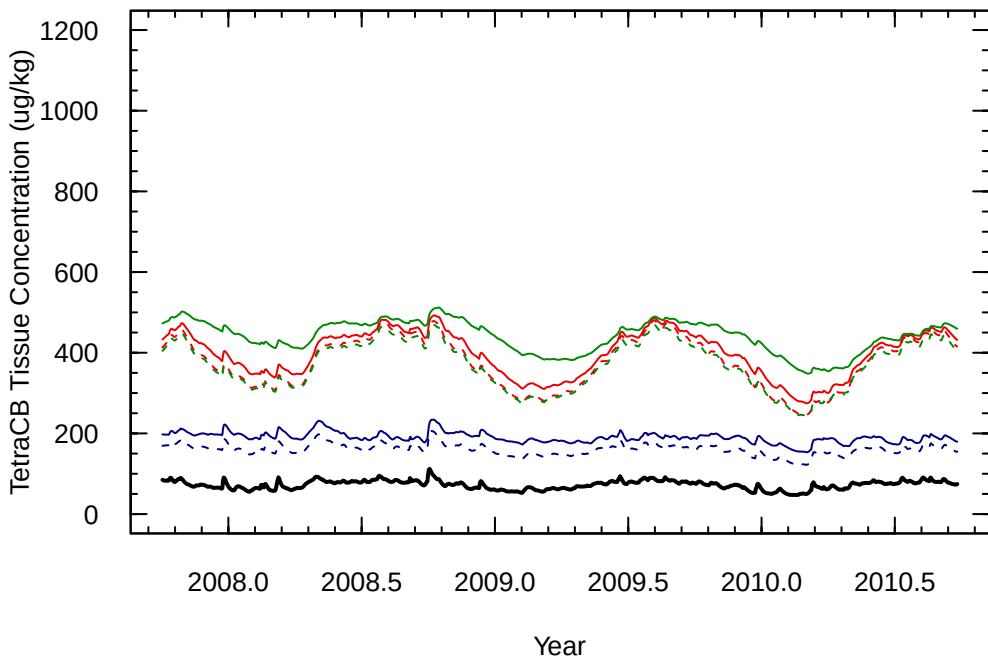
Benthic invert filter feeder (RM 6–14.7)



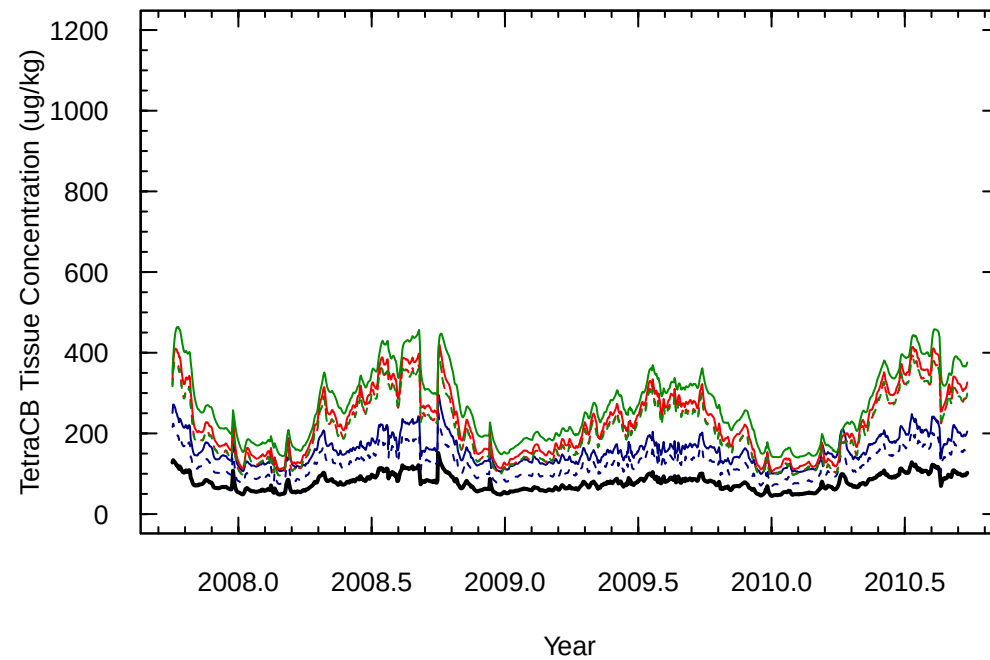
Benthic invert filter feeder (RM 14.7–Dam)



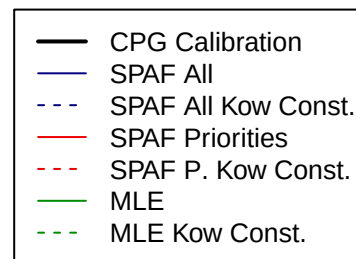
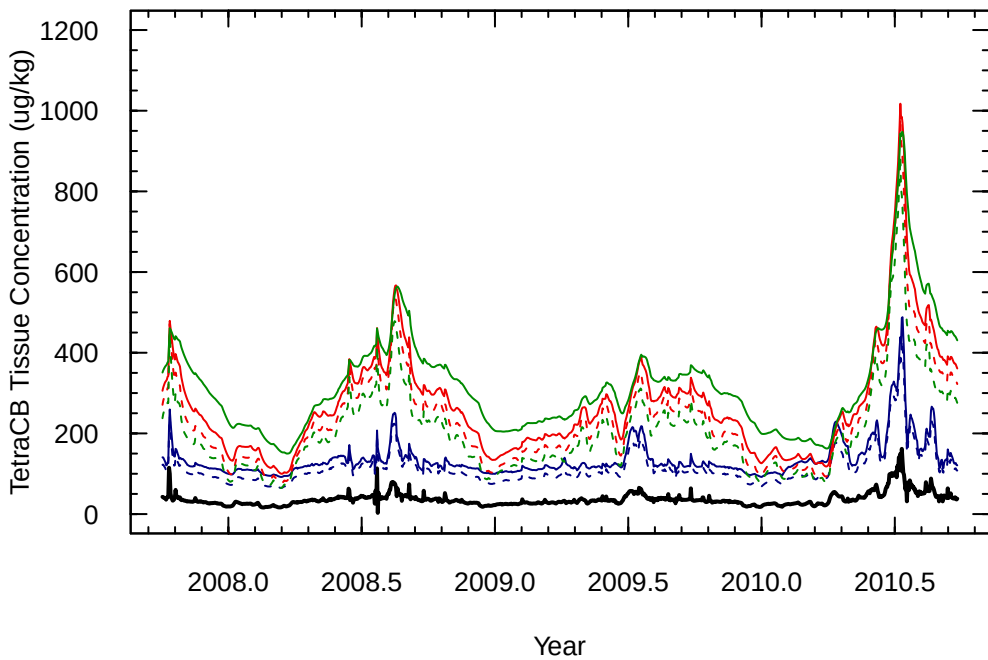
Benthic invert detritivore (RM 0–6)



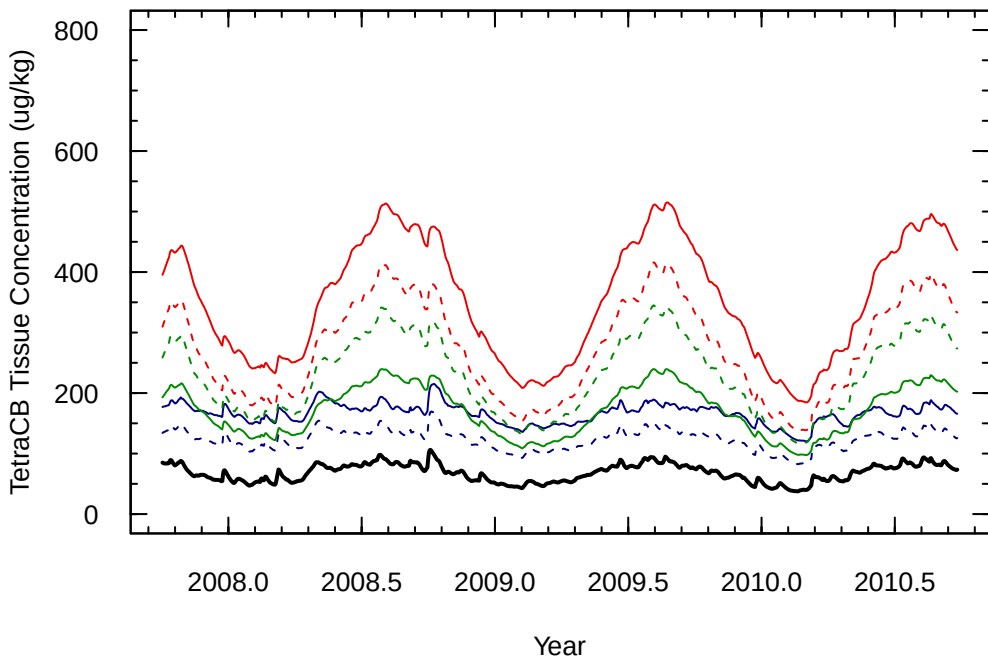
Benthic invert detritivore (RM 6–14.7)



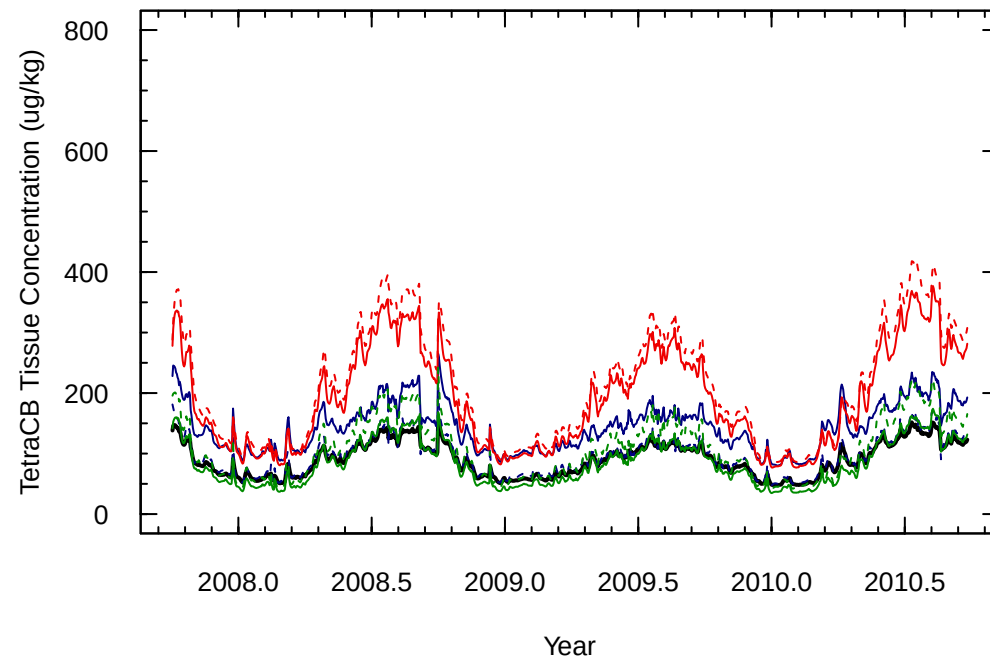
Benthic invert detritivore (RM 14.7–Dam)



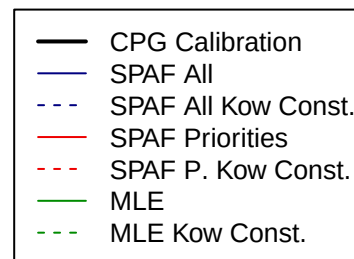
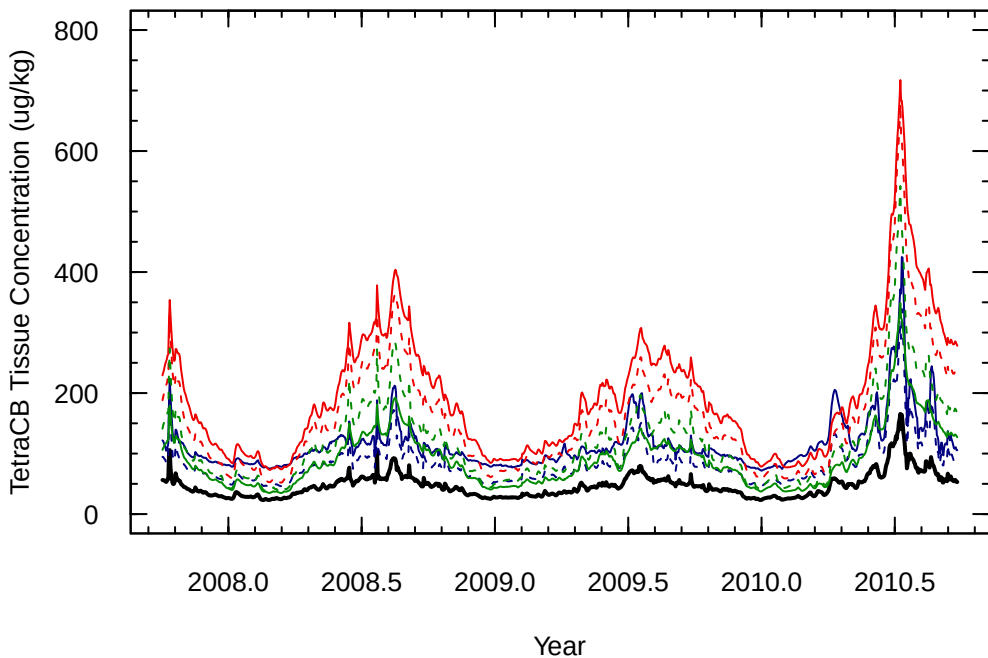
Benthic invert carnivore/omnivore (RM 0–6)



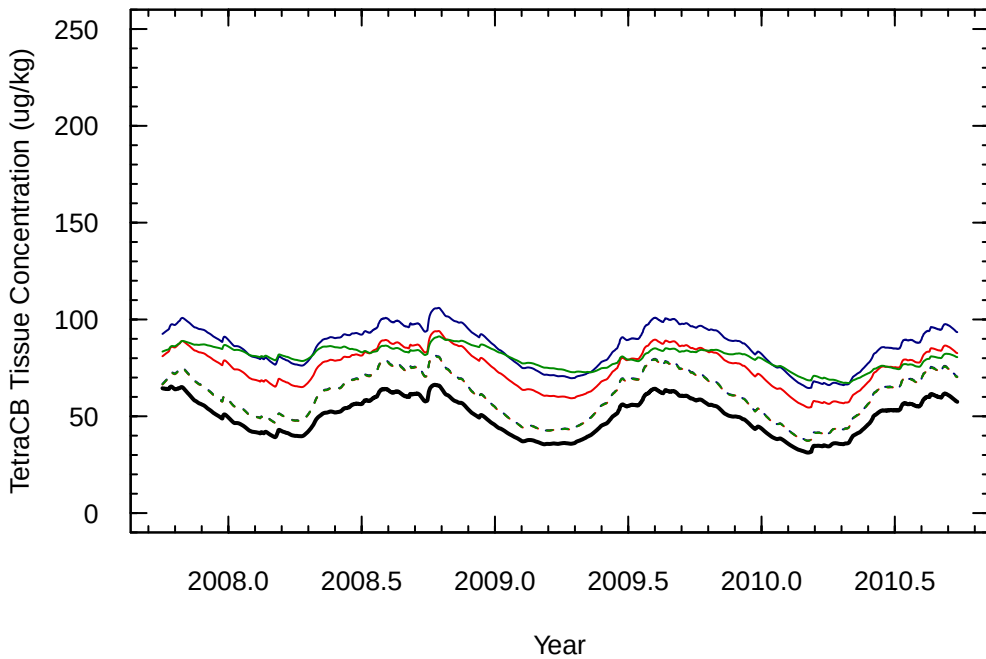
Benthic invert carnivore/omnivore (RM 6–14.7)



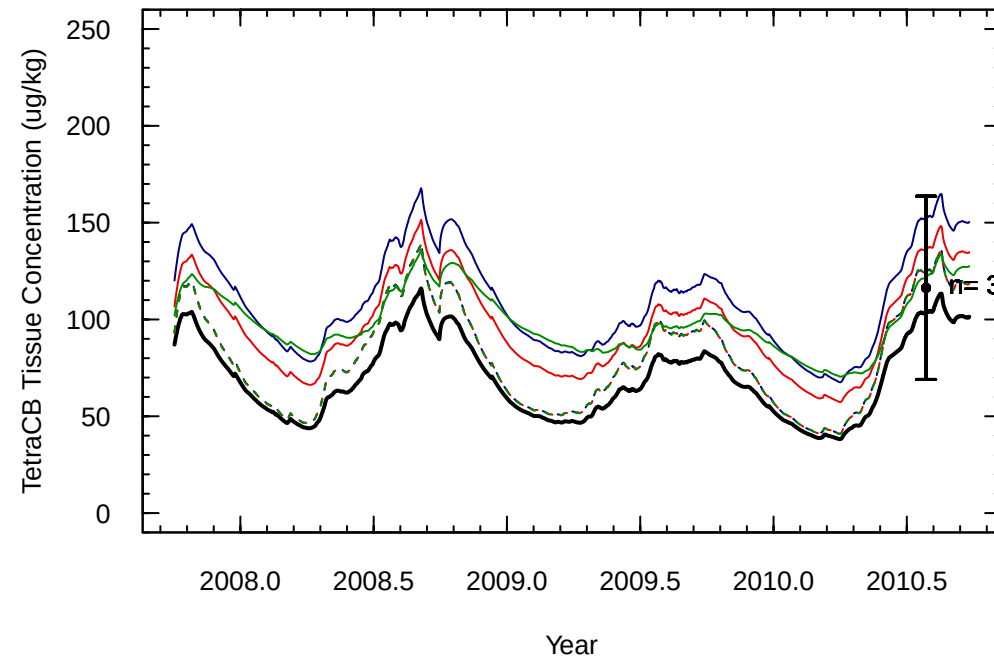
Benthic invert carnivore/omnivore (RM 14.7–Dam)



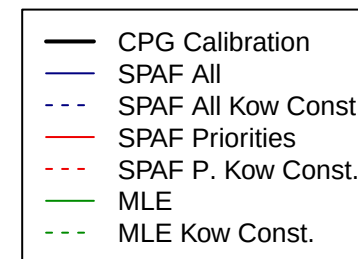
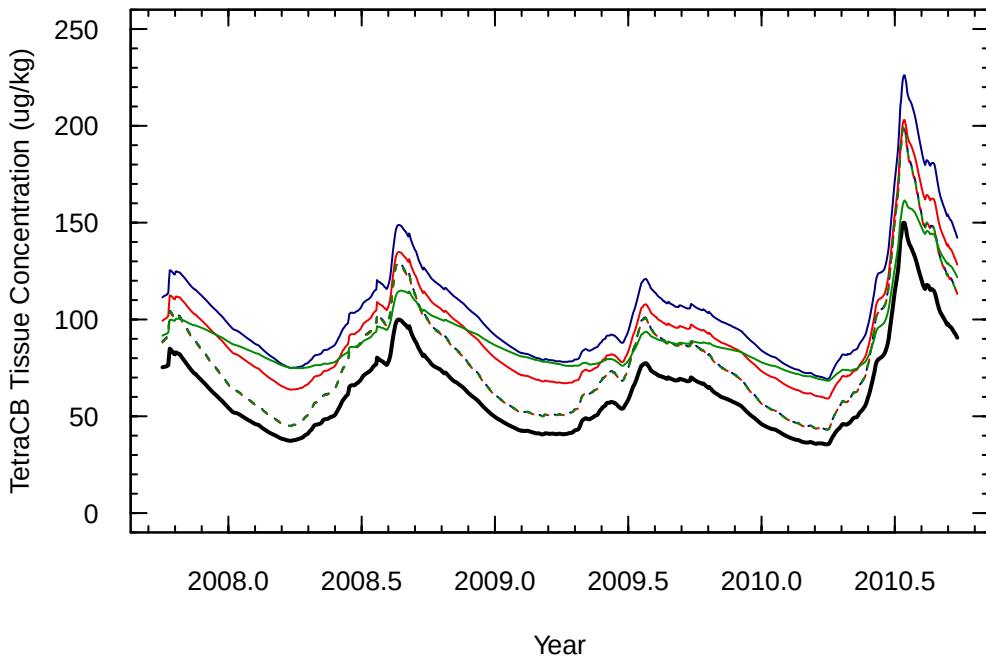
Small filter feeding fish (RM 0–6)



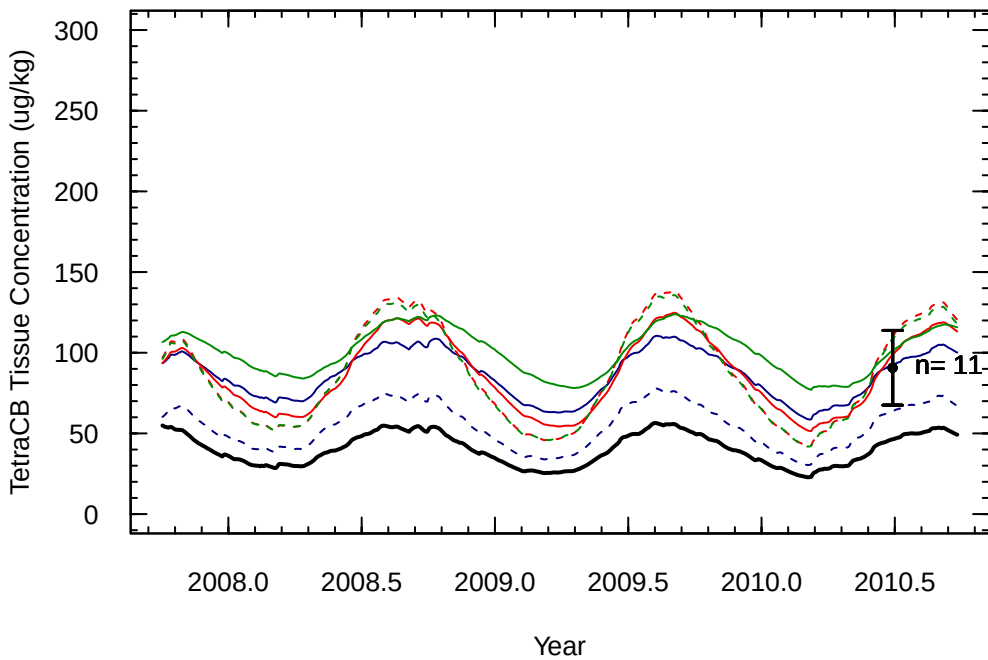
Small filter feeding fish (RM 6–14.7)



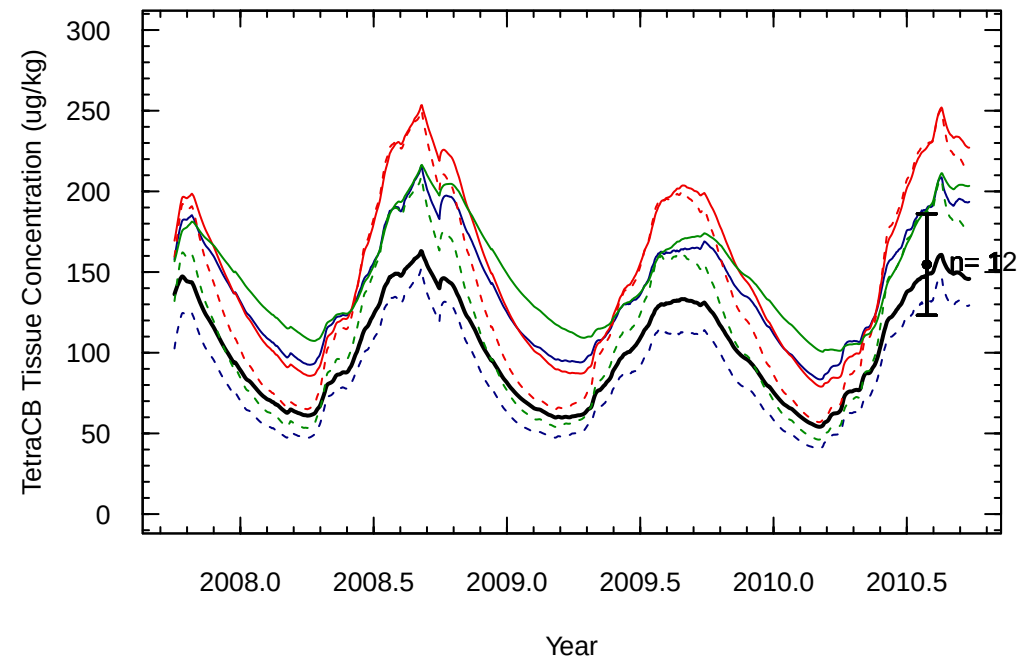
Small filter feeding fish (RM 14.7–Dam)



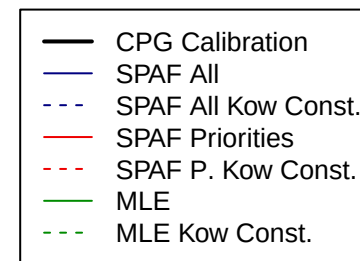
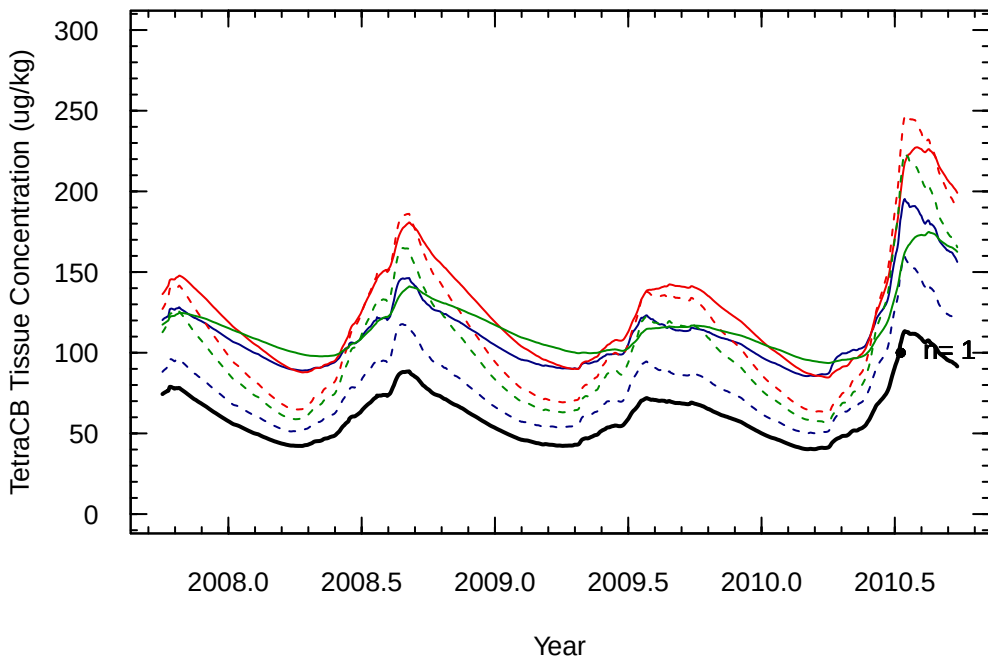
Small forage fish (RM 0–6)



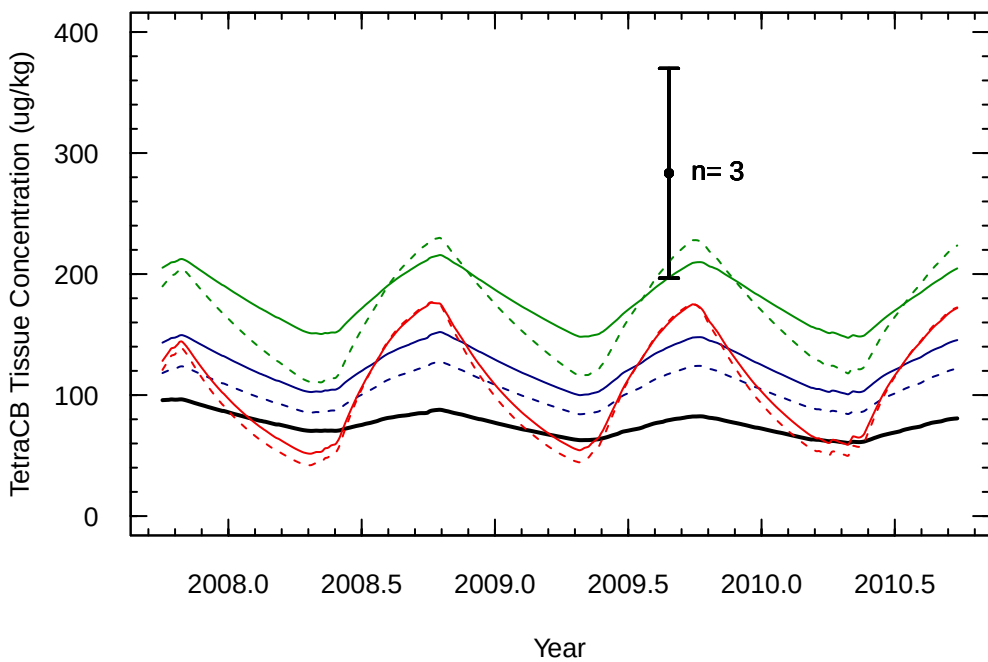
Small forage fish (RM 6–14.7)



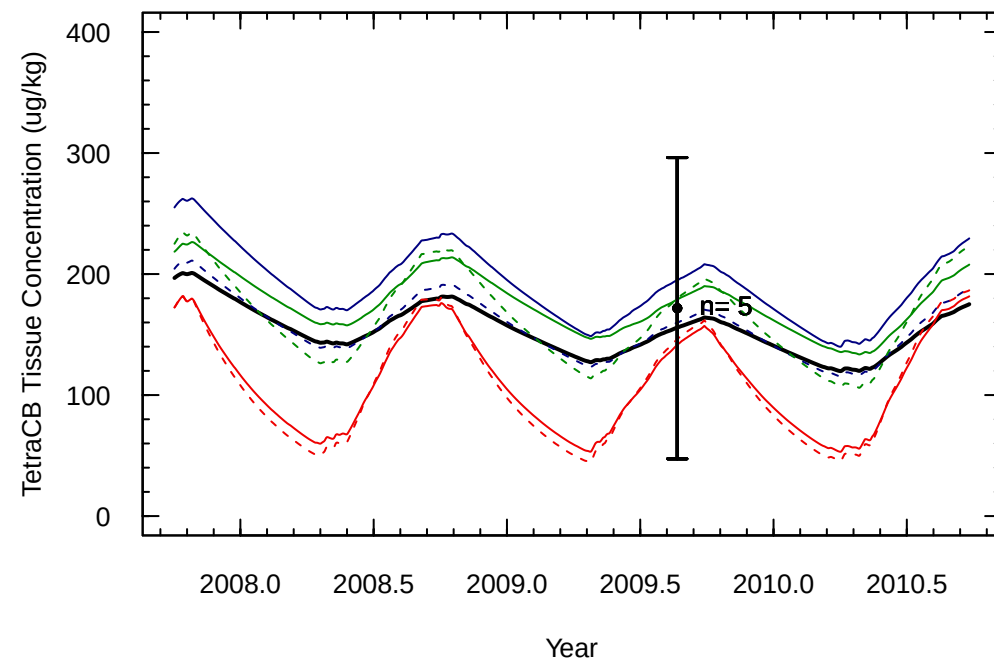
Small forage fish (RM 14.7–Dam)



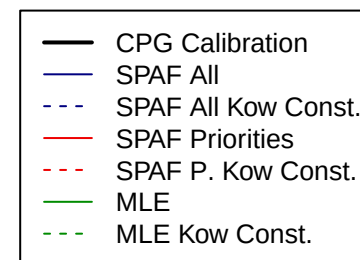
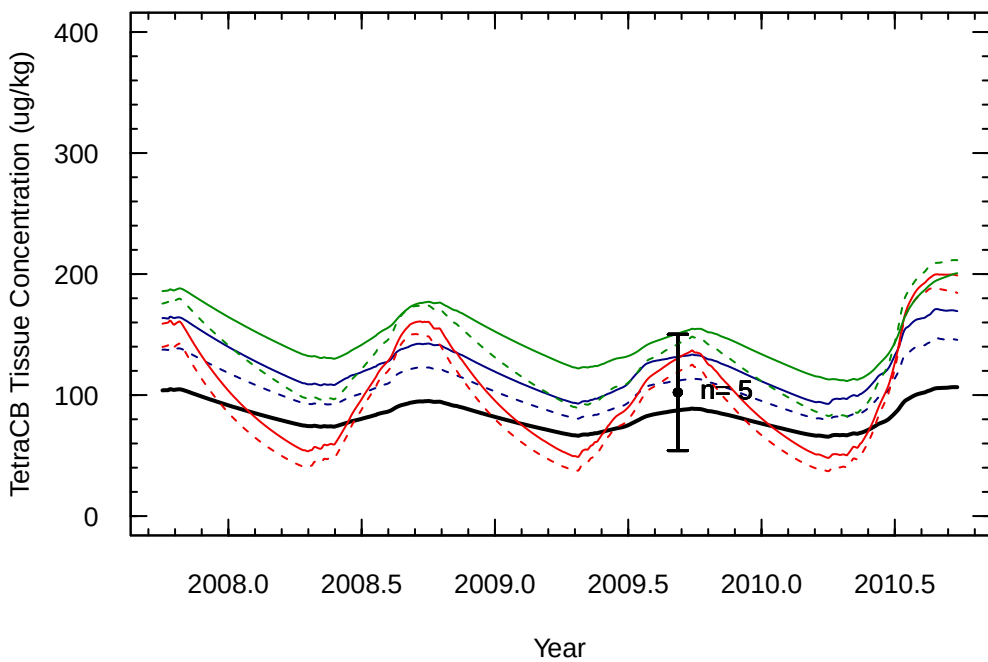
Small American eel (RM 0–6)



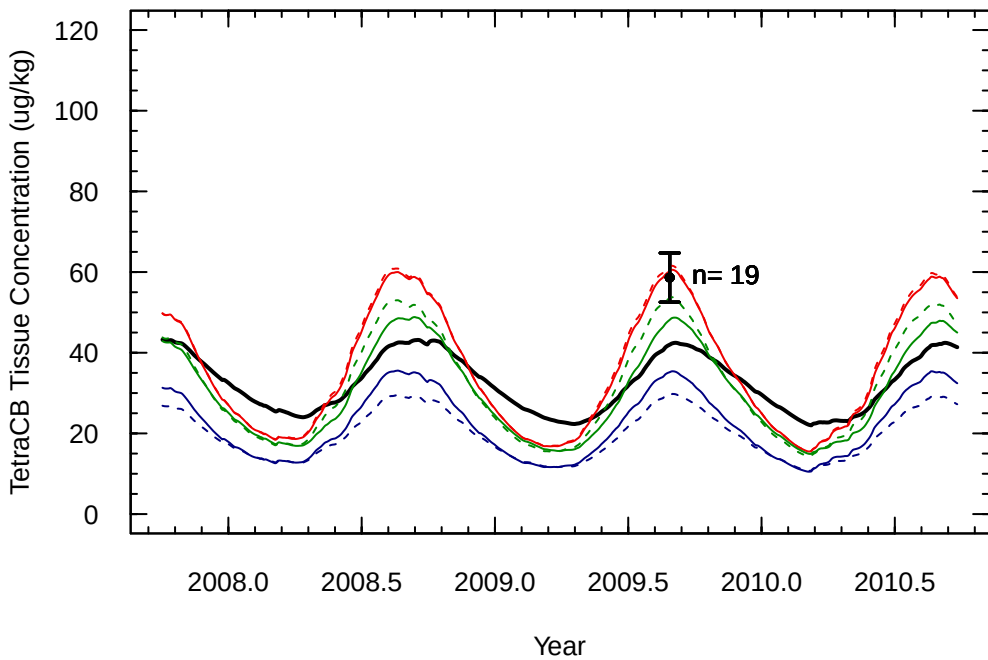
Small American eel (RM 6–14.7)



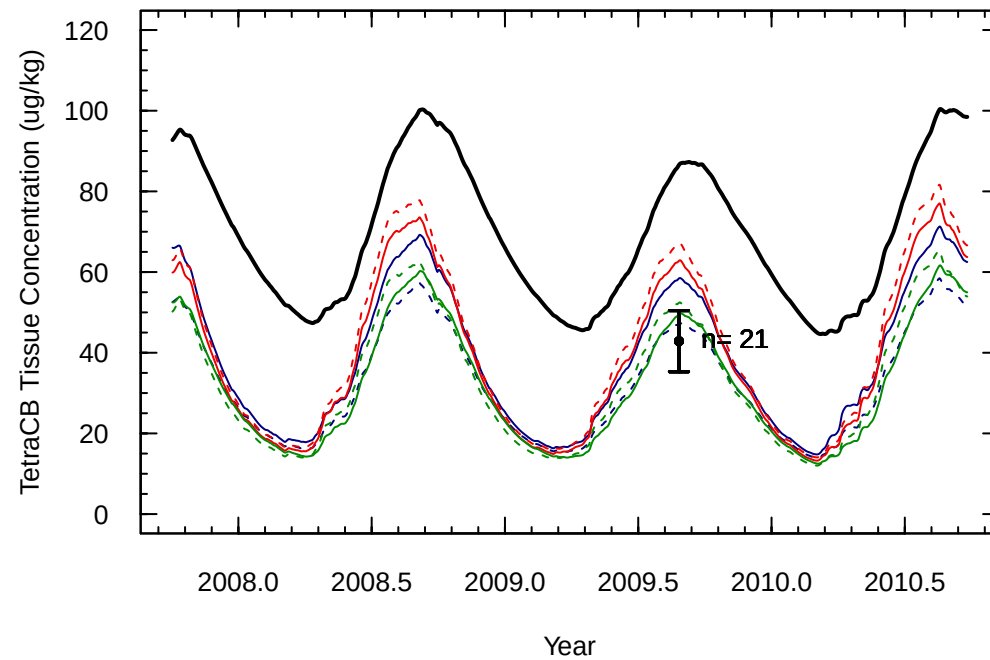
Small American eel (RM 14.7–Dam)



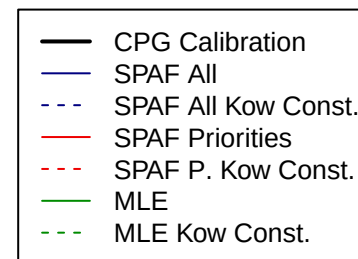
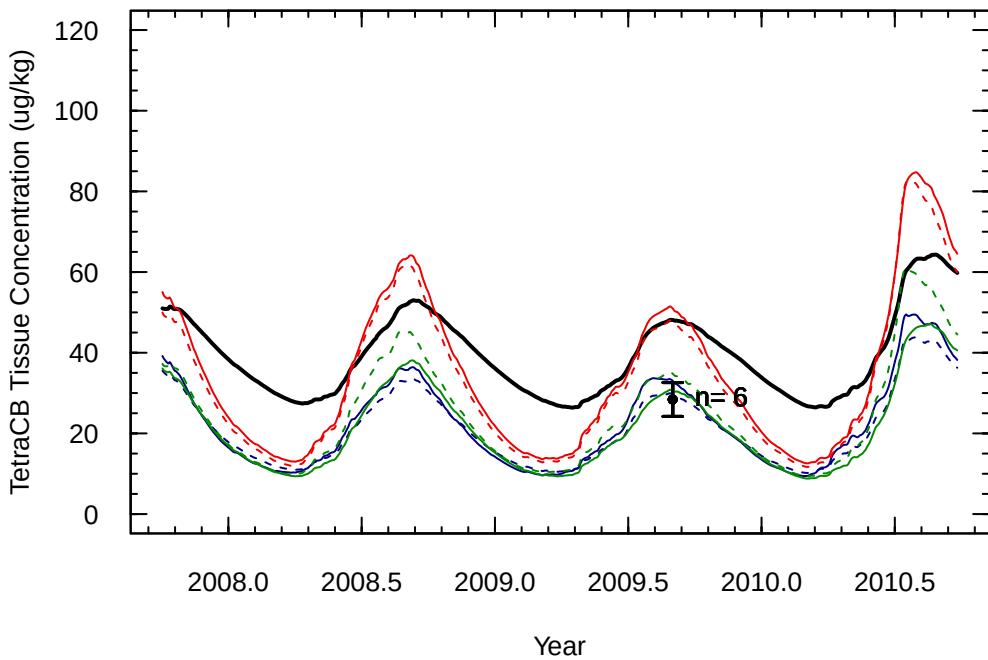
Blue crab (RM 0–6)



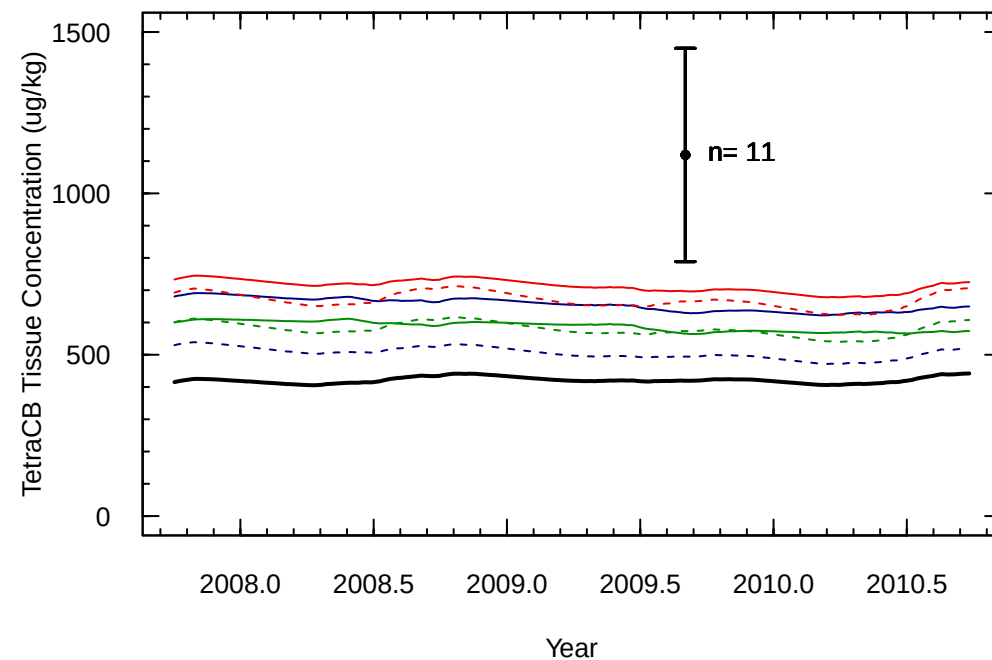
Blue crab (RM 6–14.7)



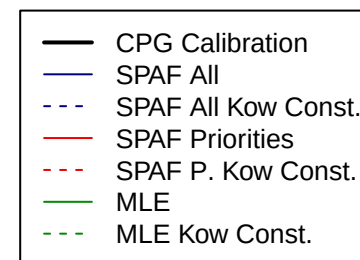
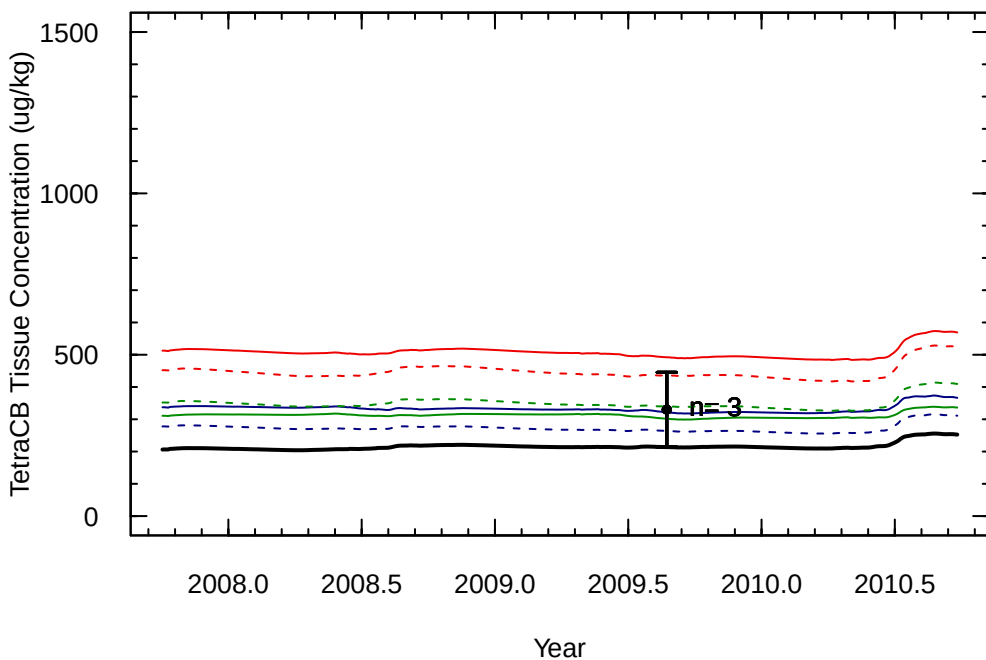
Blue crab (RM 14.7–Dam)



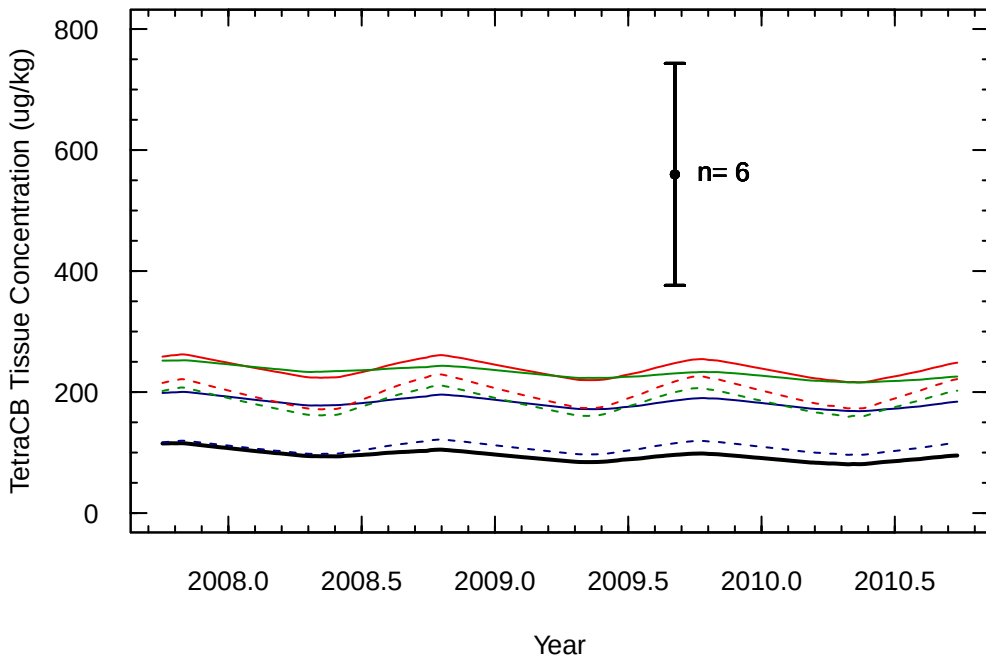
Carp (RM 6–14.7)



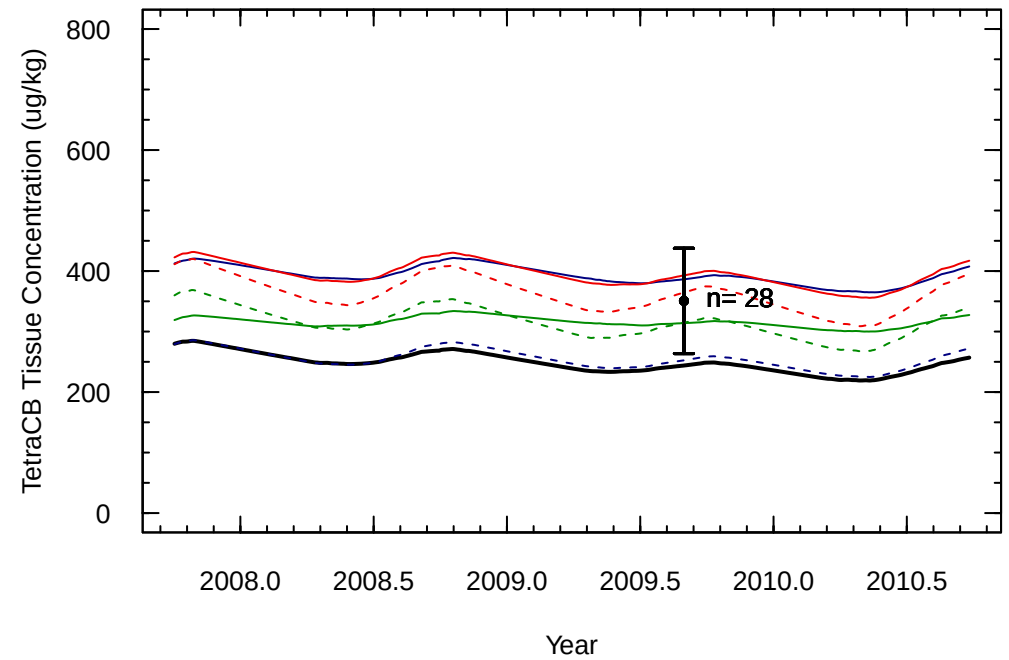
Carp (RM 14.7–Dam)



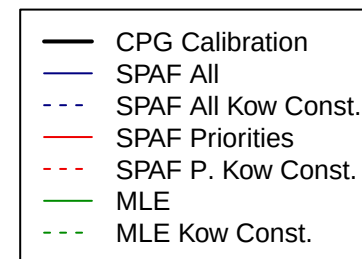
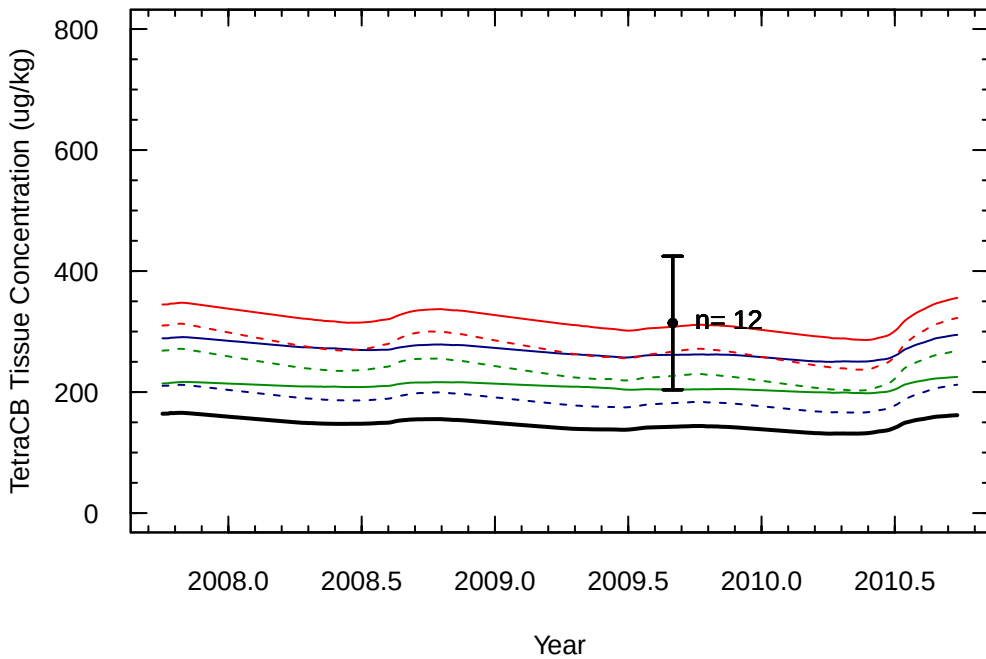
Catfish (RM 0–6)



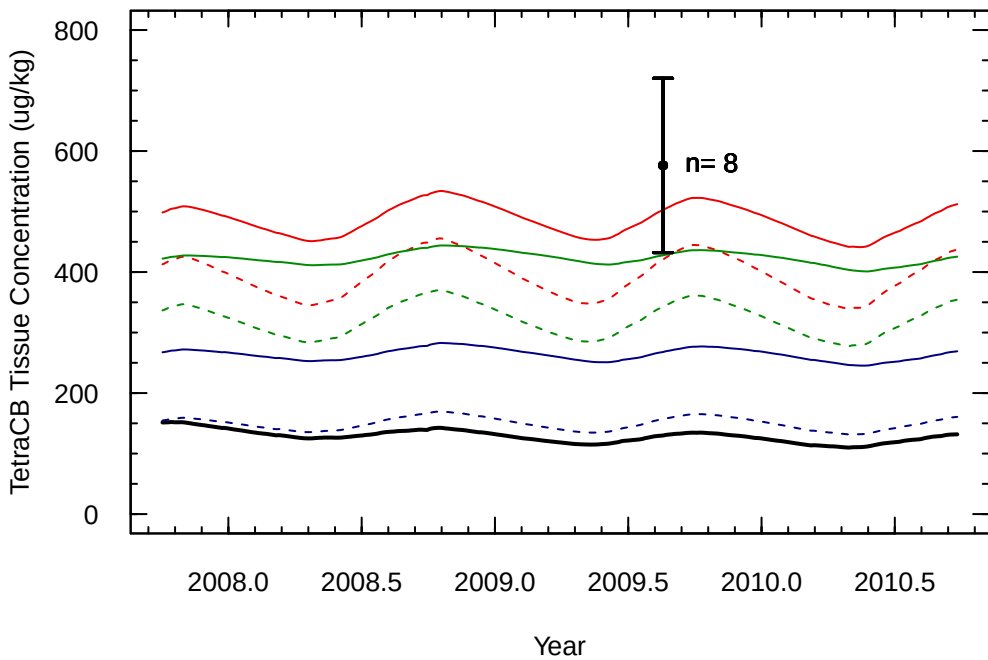
Catfish (RM 6–14.7)



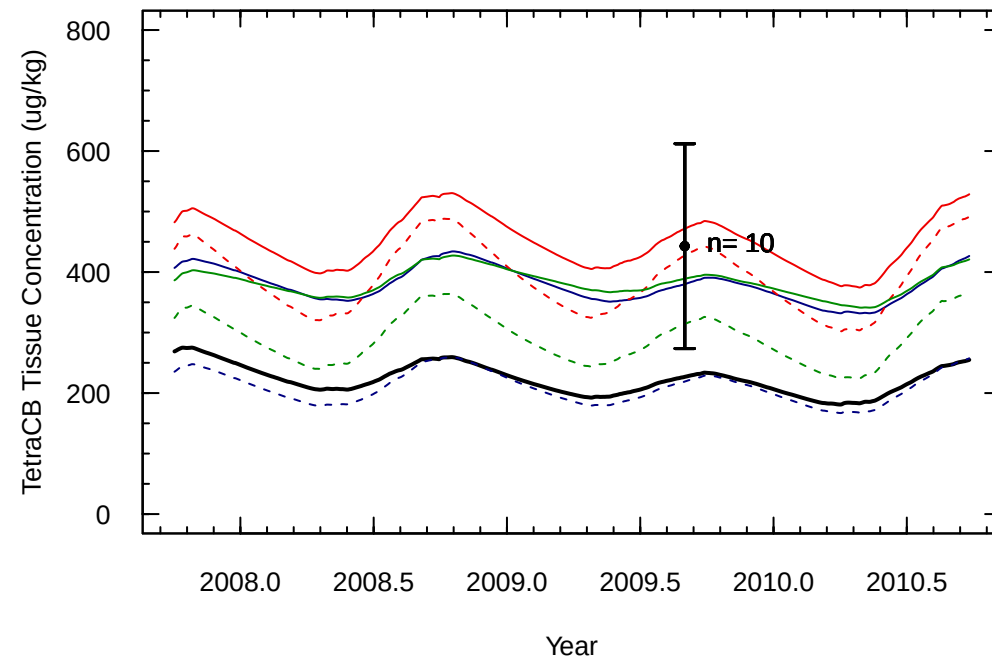
Catfish (RM 14.7–Dam)



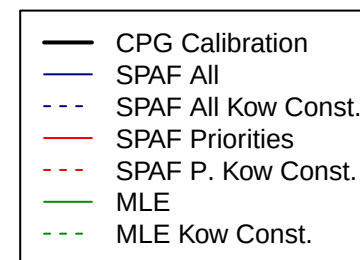
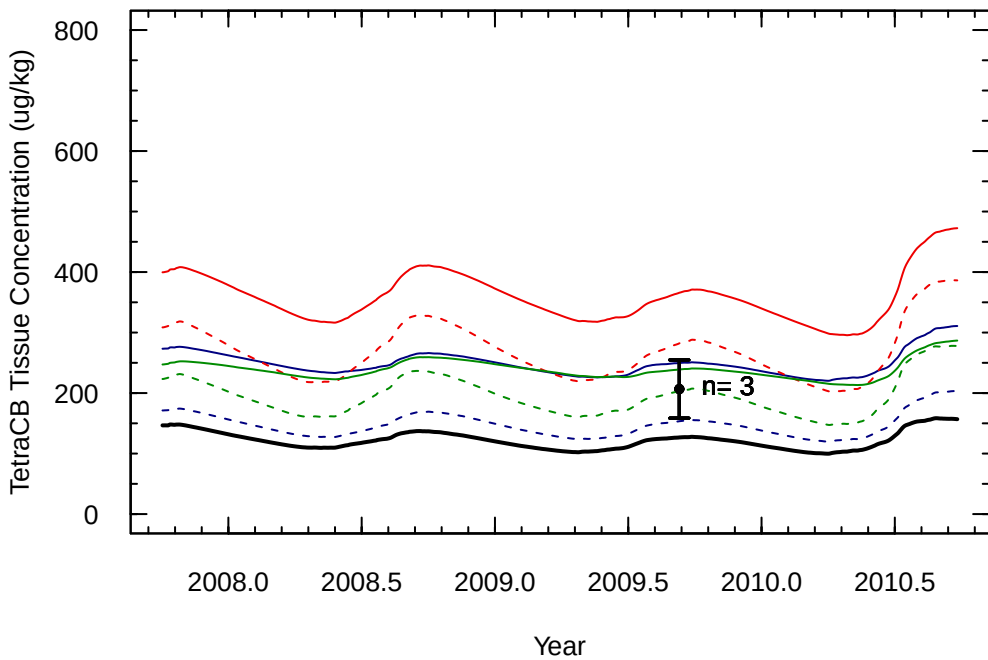
White perch (RM 0–6)



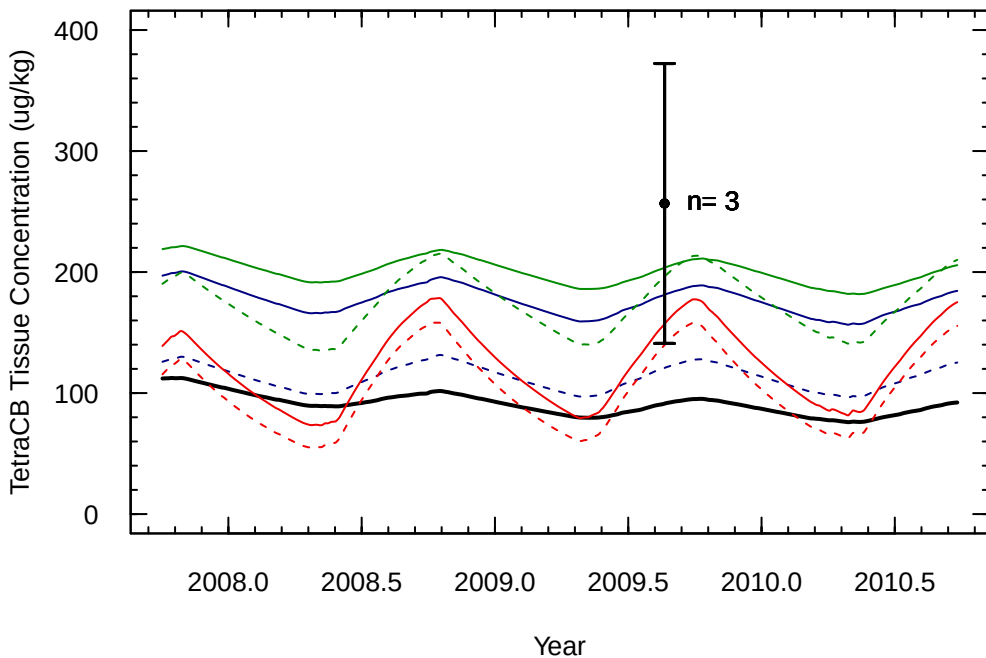
White perch (RM 6–14.7)



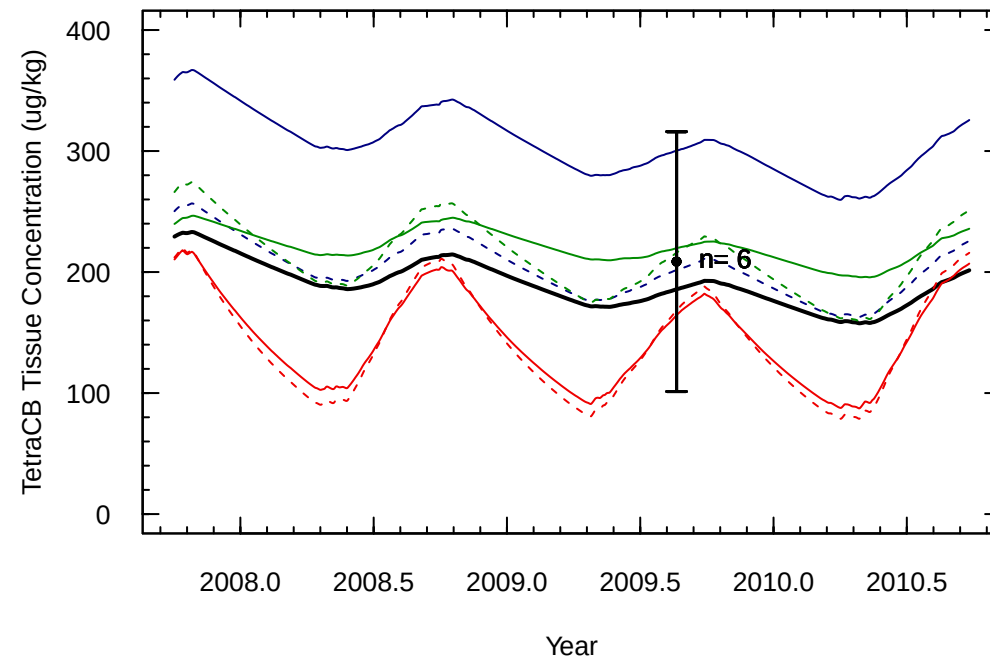
White perch (RM 14.7–Dam)



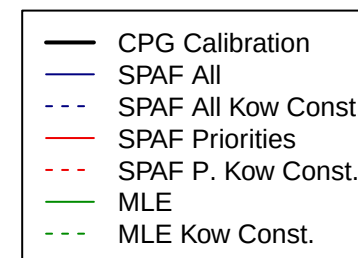
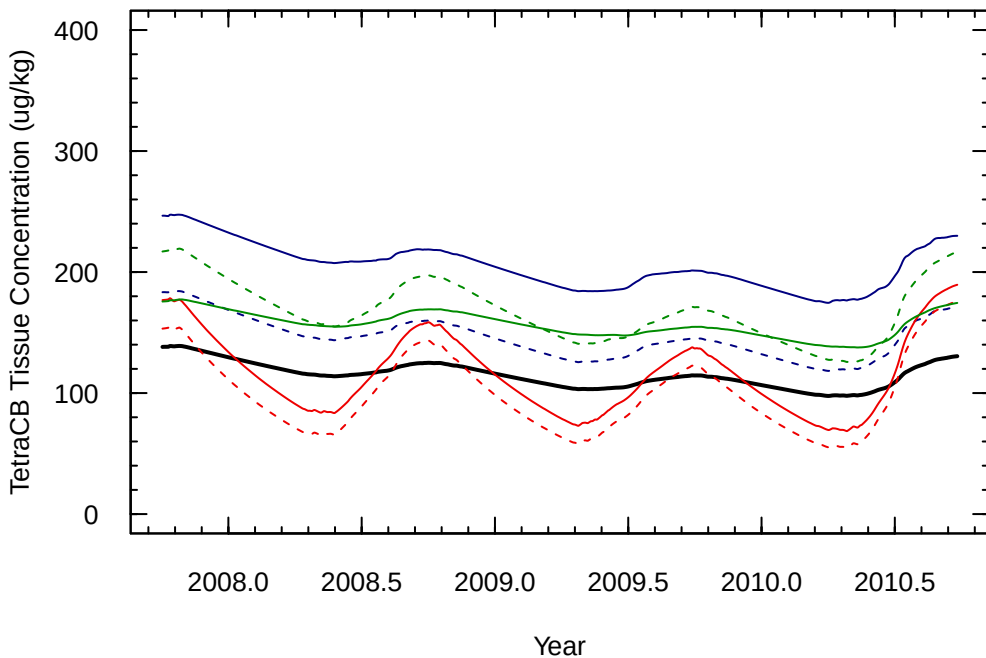
Large American eel (RM 0–6)



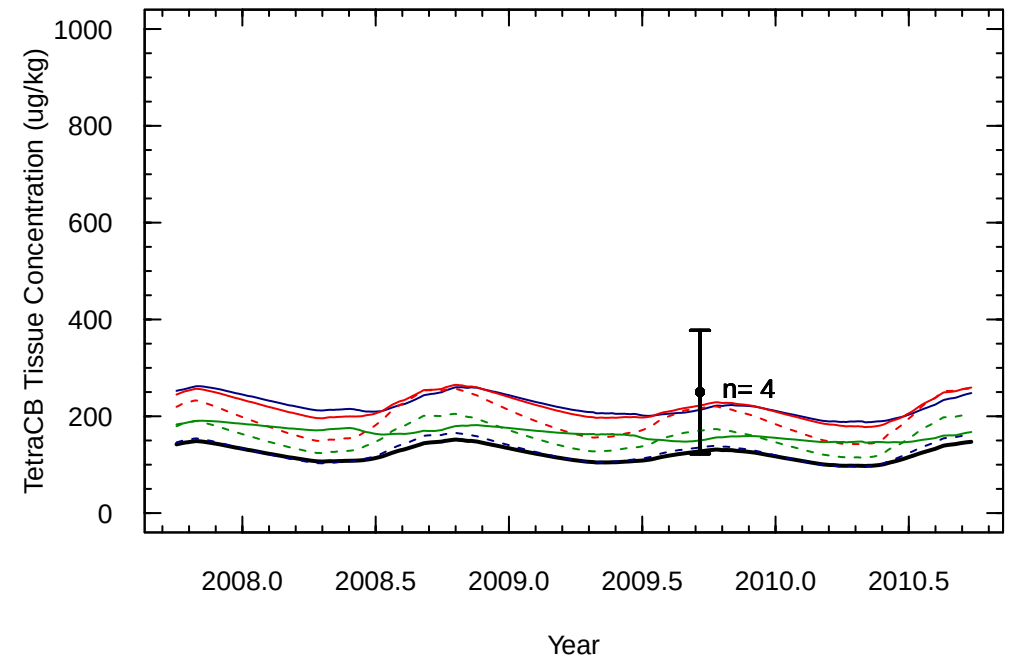
Large American eel (RM 6–14.7)



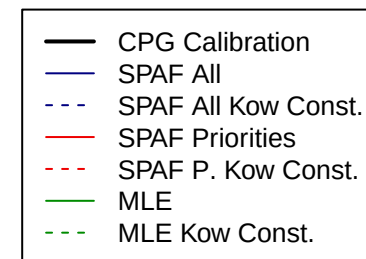
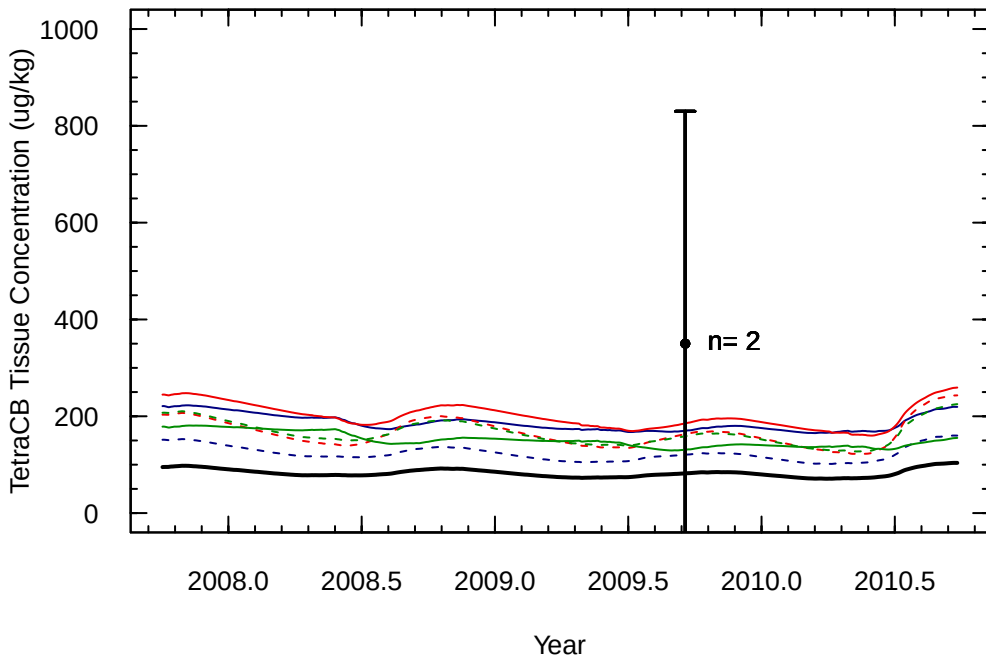
Large American eel (RM 14.7–Dam)



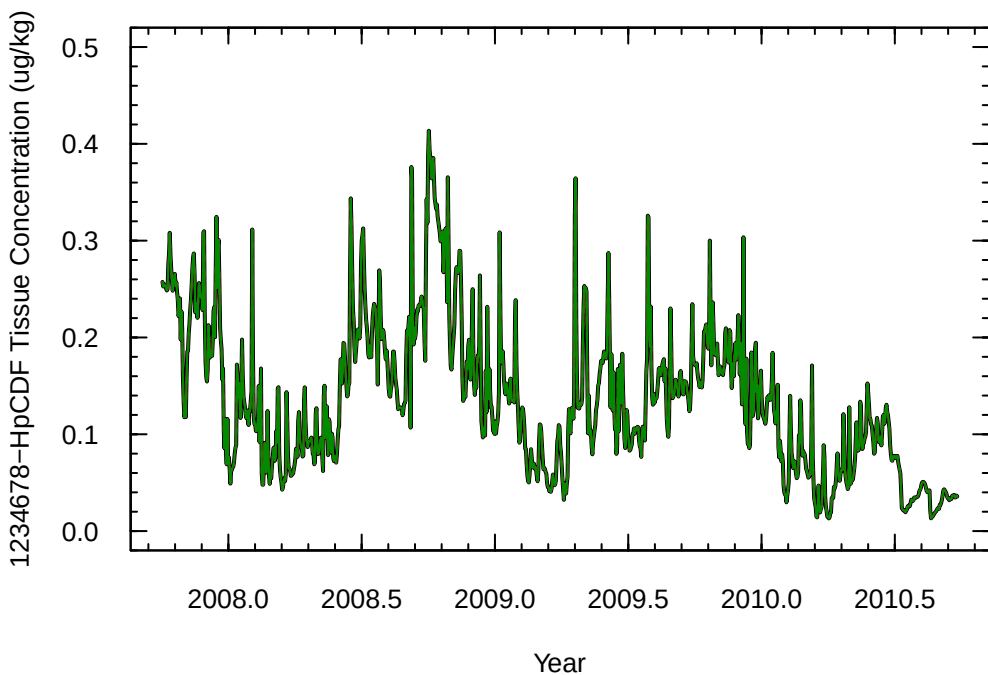
Bass (RM 6–14.7)



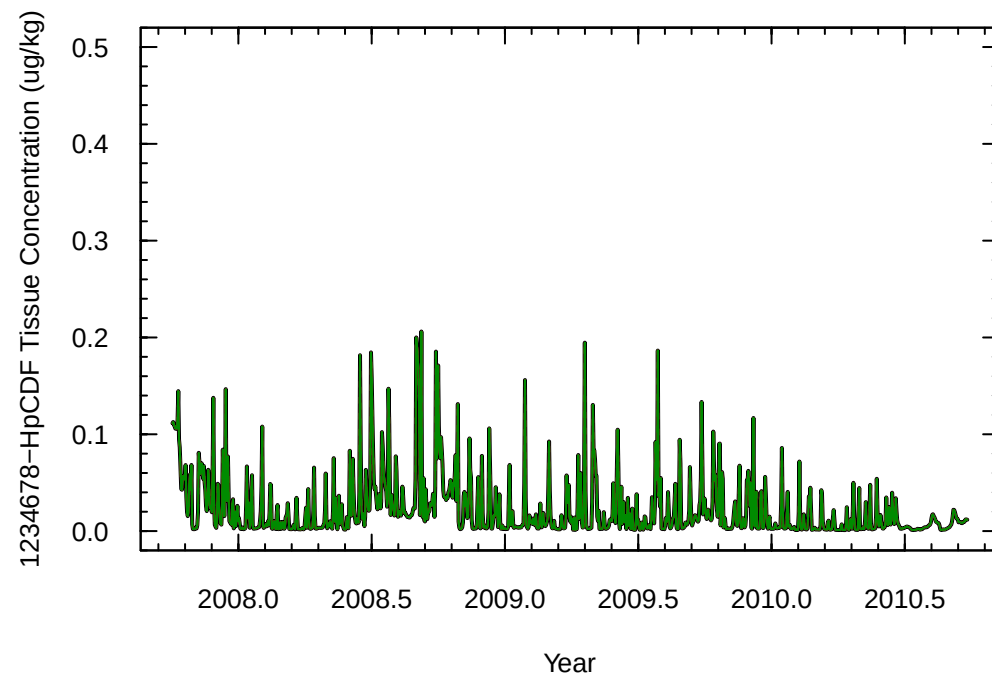
Bass (RM 14.7–Dam)



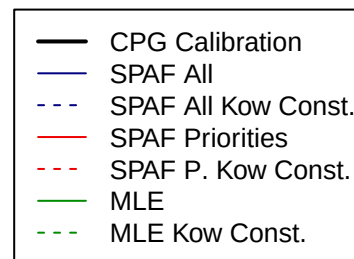
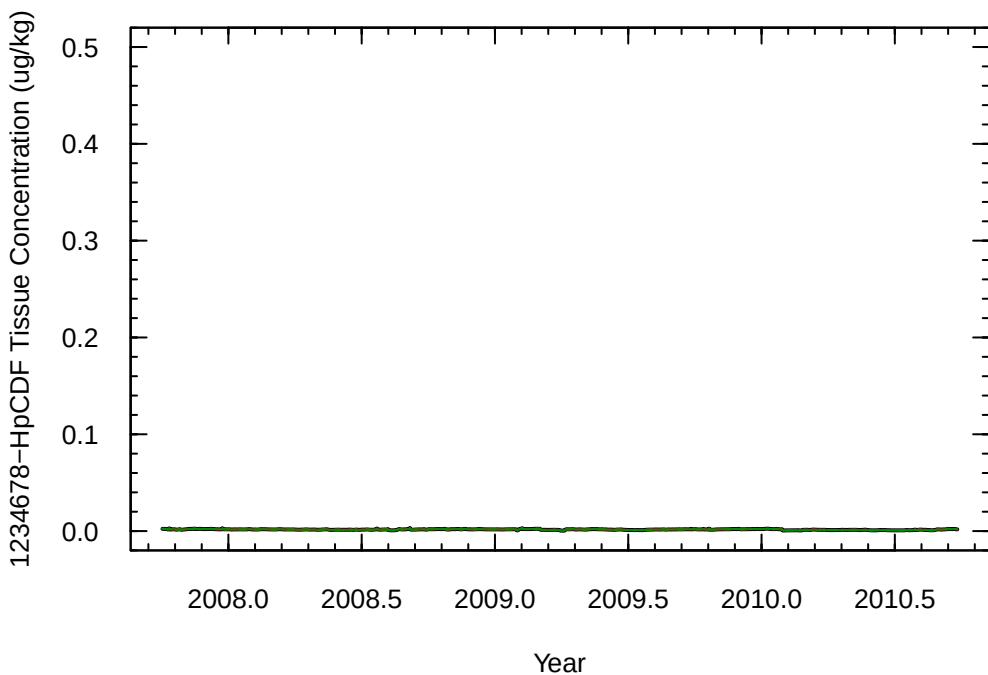
Phytoplankton (RM 0–6)



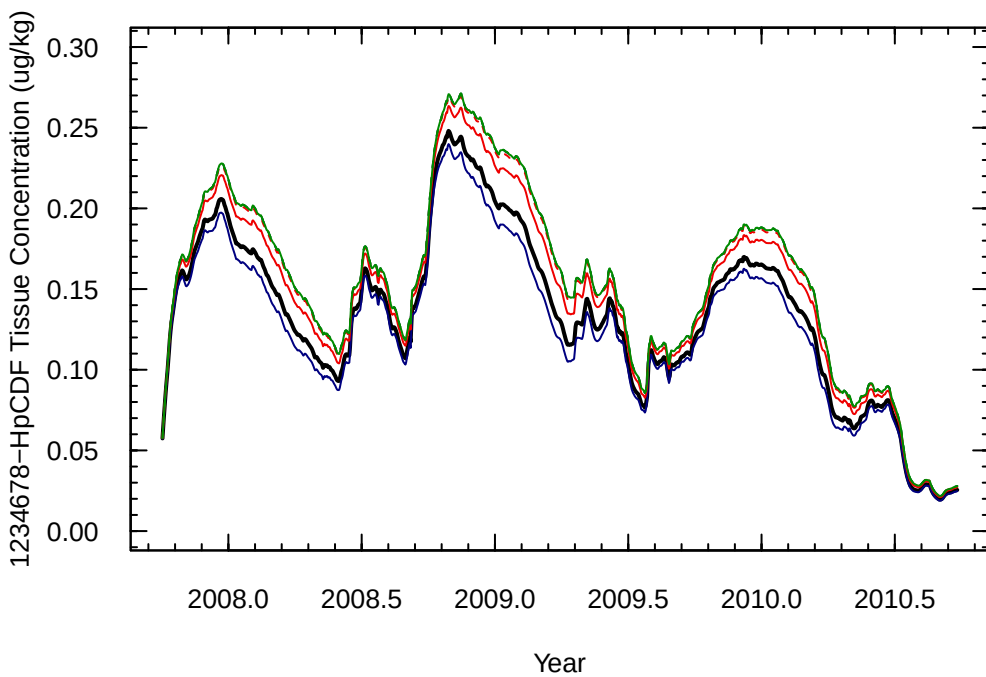
Phytoplankton (RM 6–14.7)



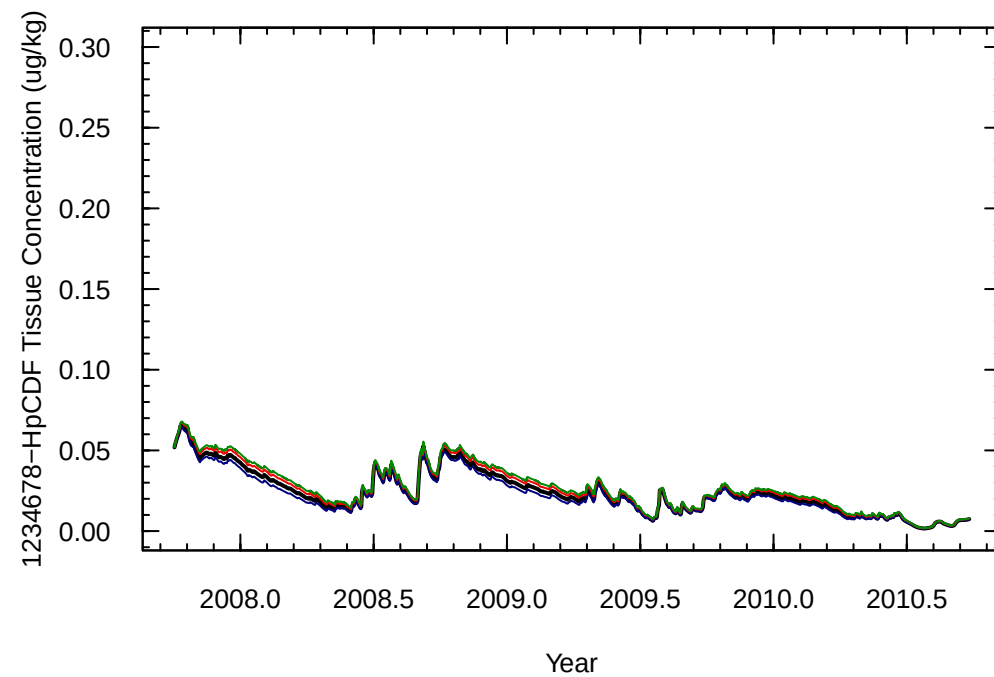
Phytoplankton (RM 14.7–Dam)



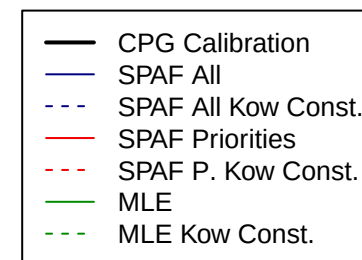
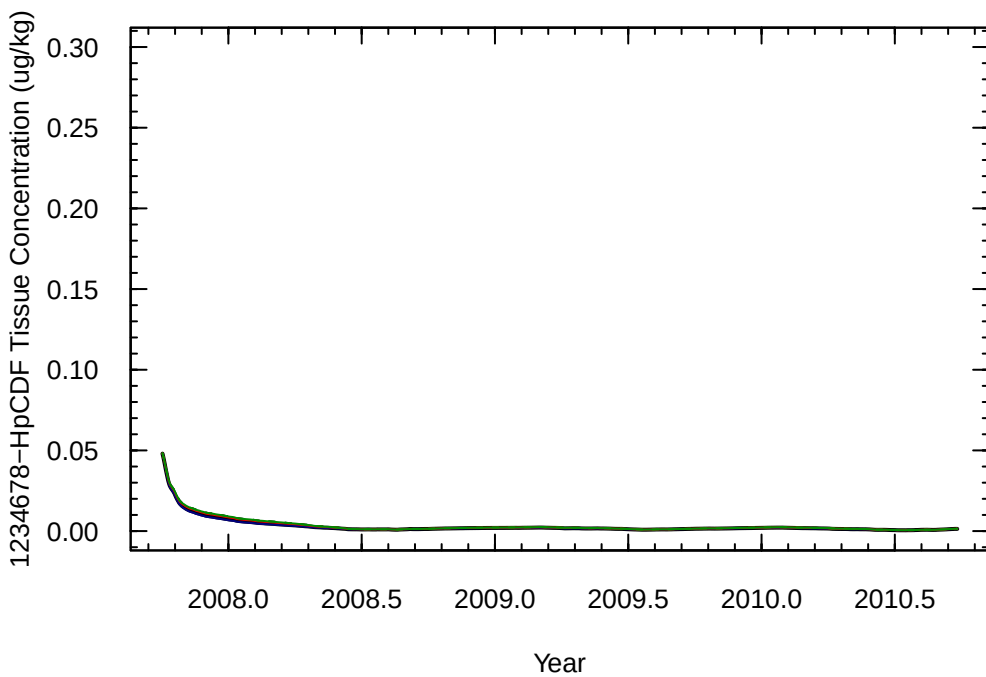
Zooplankton (RM 0–6)



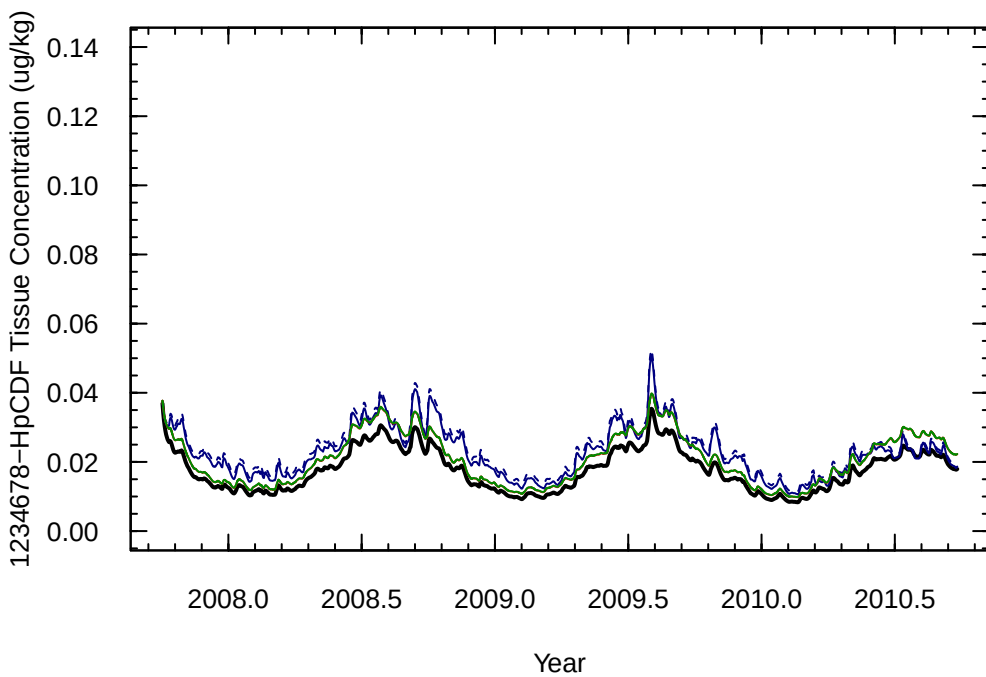
Zooplankton (RM 6–14.7)



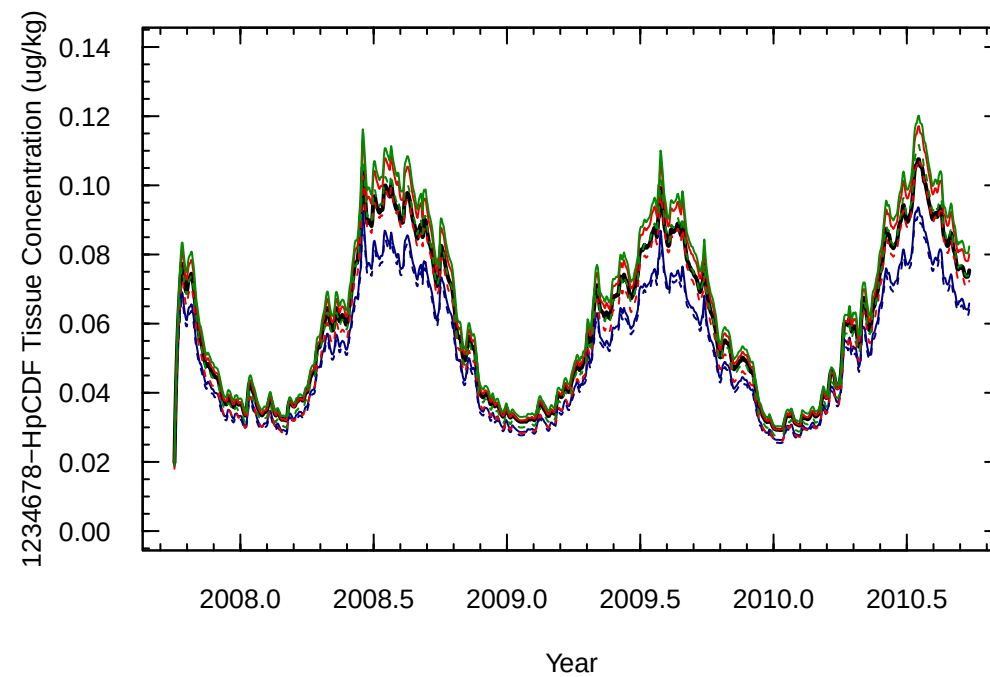
Zooplankton (RM 14.7–Dam)



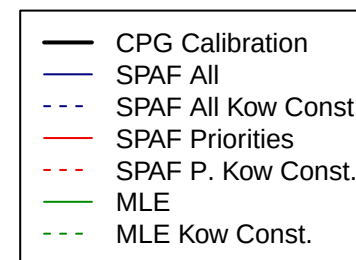
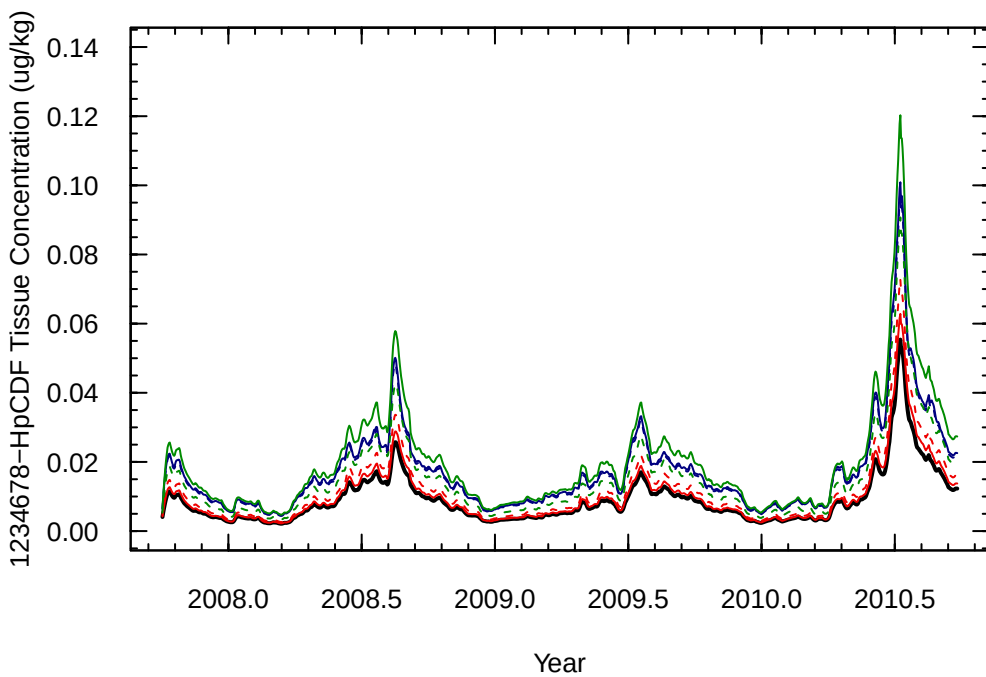
Benthic invert deposit feeder (RM 0–6)



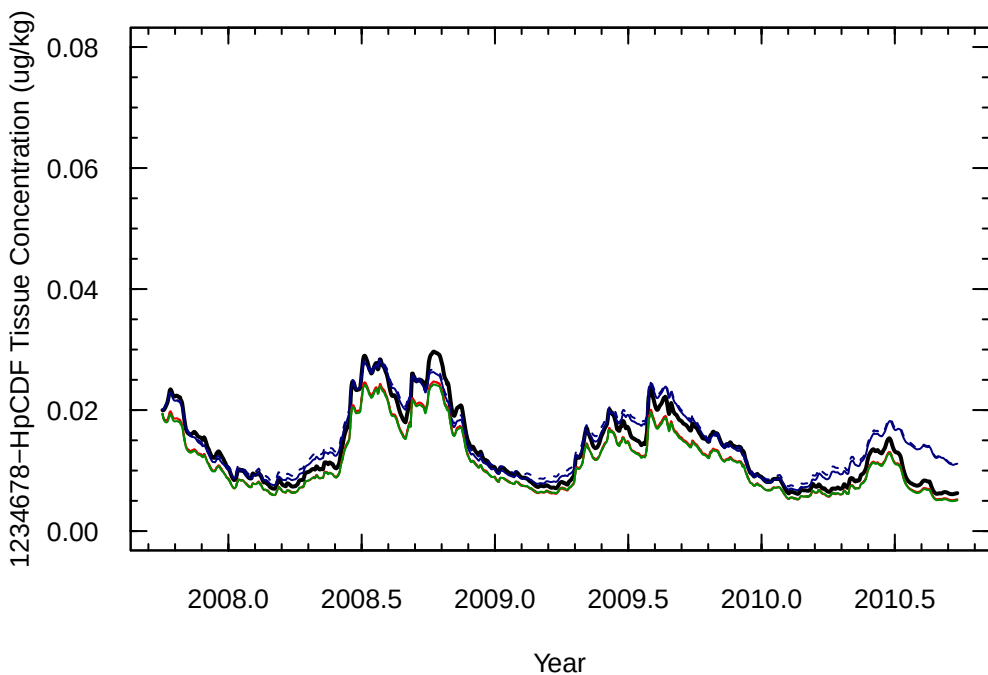
Benthic invert deposit feeder (RM 6–14.7)



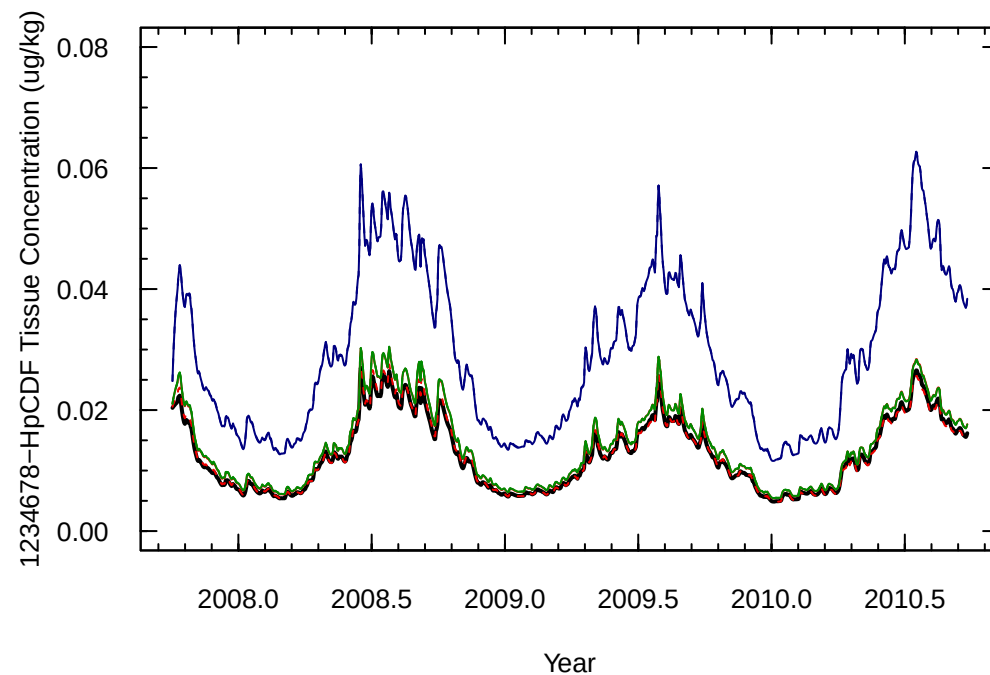
Benthic invert deposit feeder (RM 14.7–Dam)



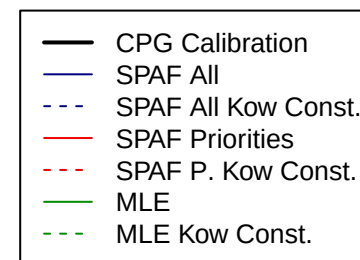
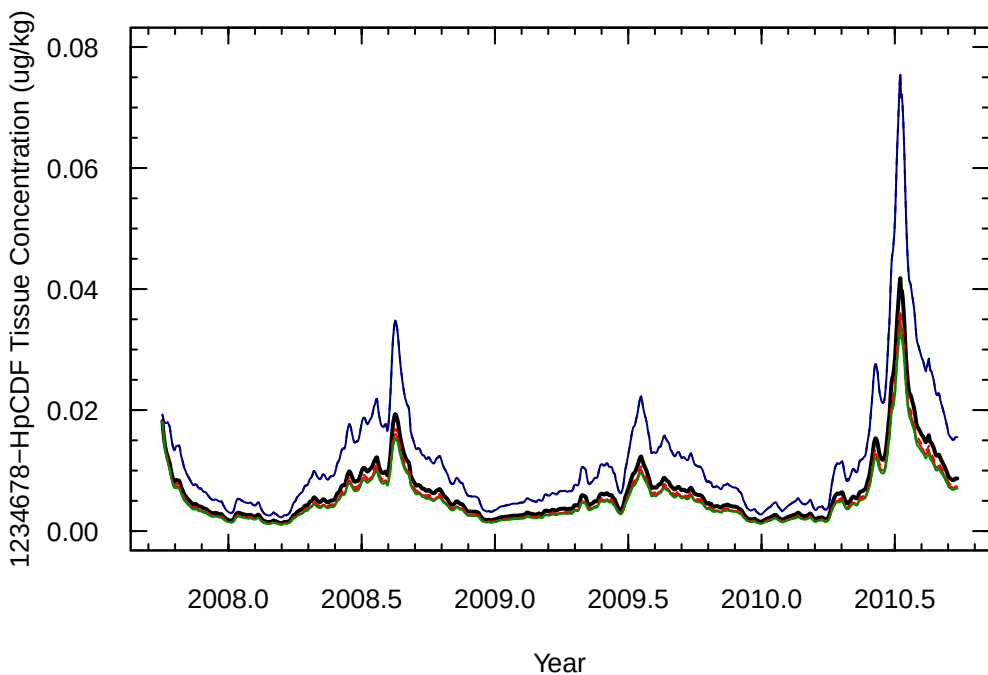
Benthic invert filter feeder (RM 0–6)



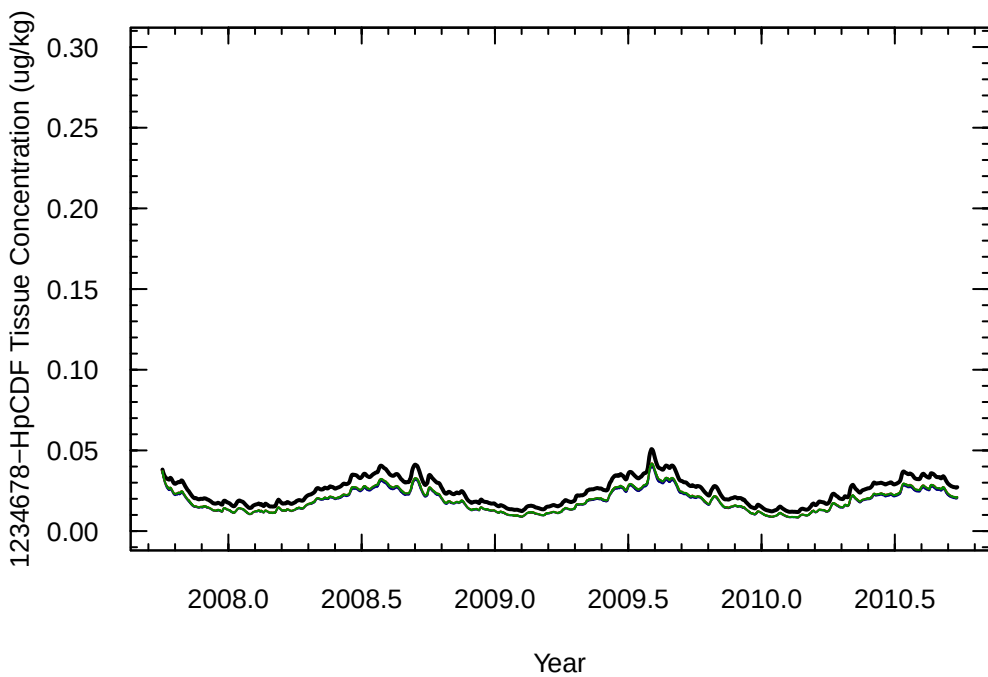
Benthic invert filter feeder (RM 6–14.7)



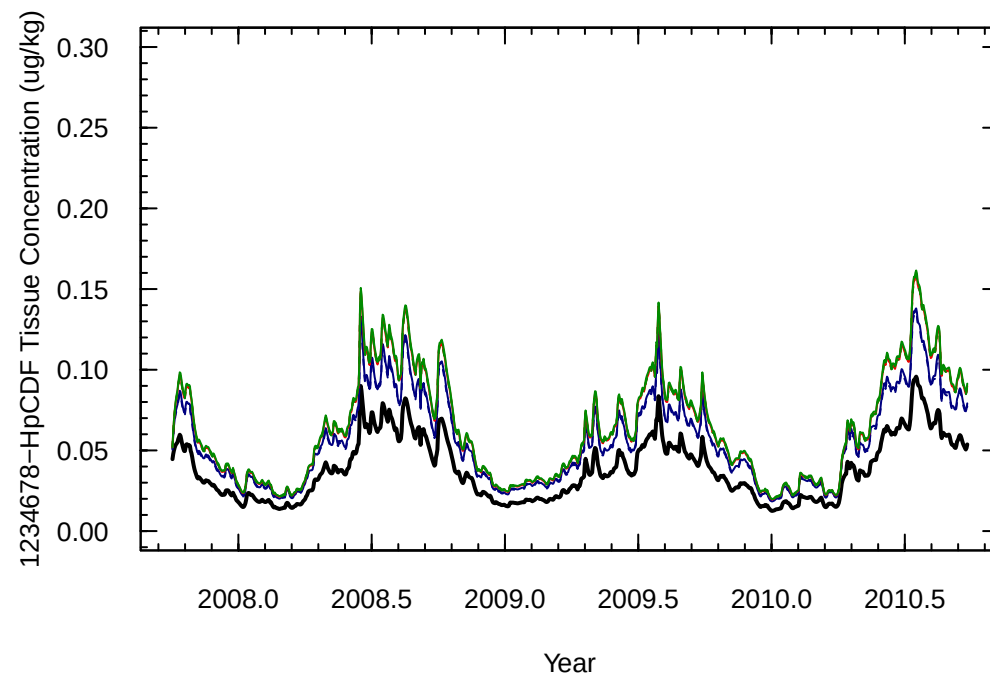
Benthic invert filter feeder (RM 14.7–Dam)



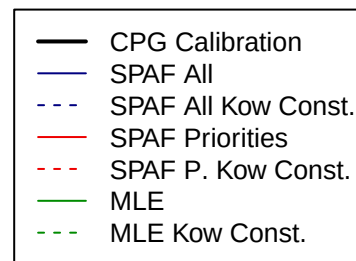
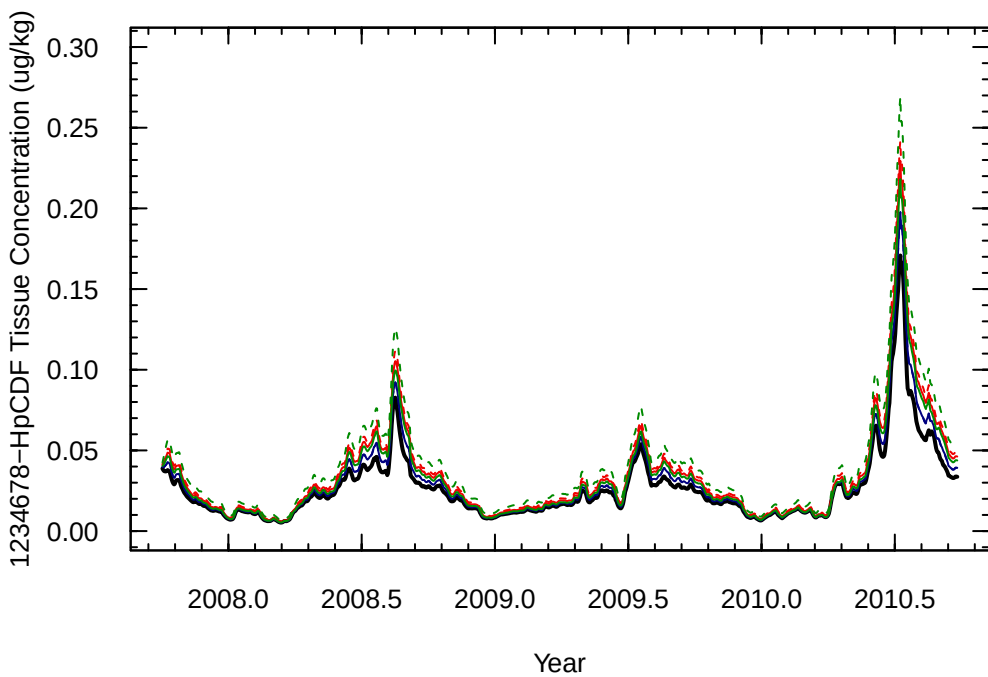
Benthic invert detritivore (RM 0–6)



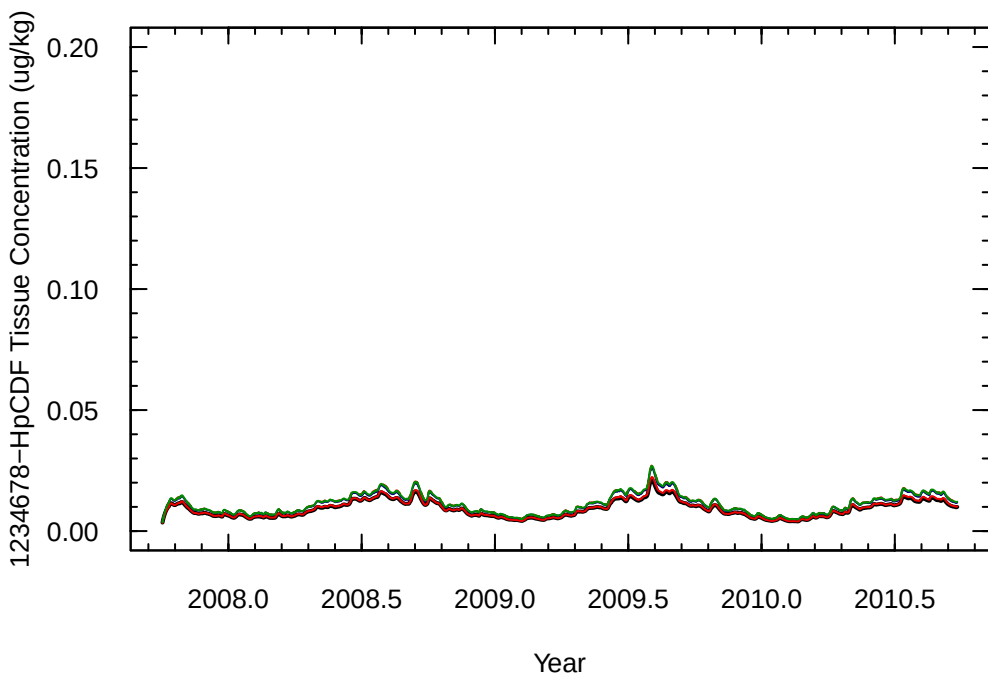
Benthic invert detritivore (RM 6–14.7)



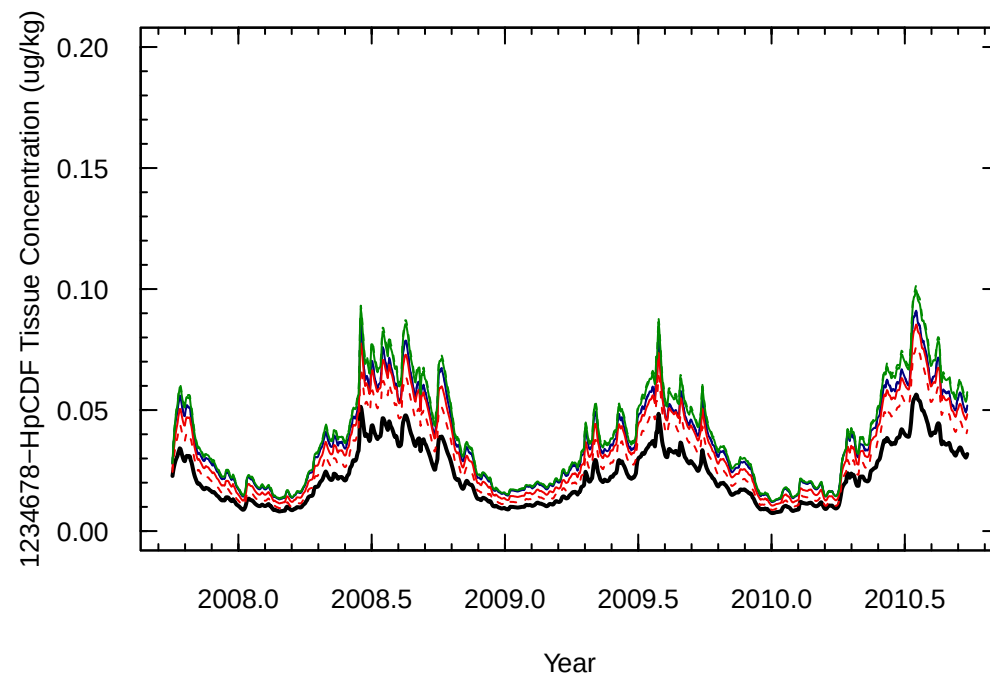
Benthic invert detritivore (RM 14.7–Dam)



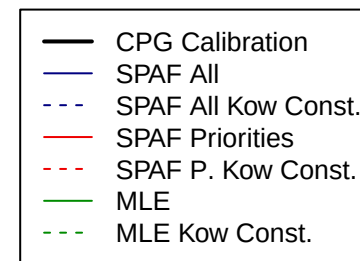
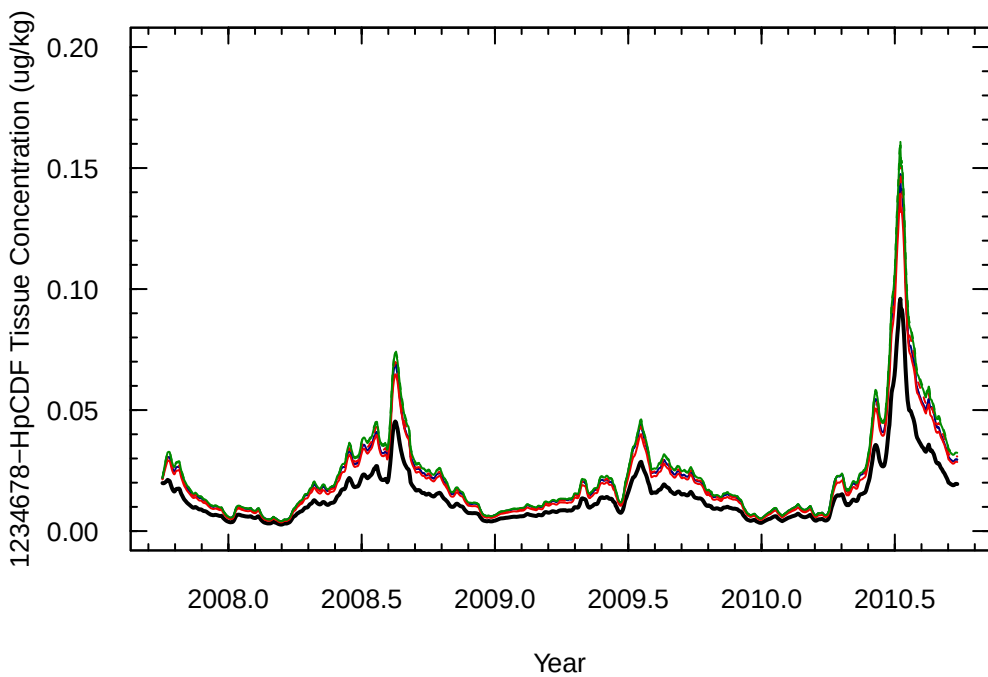
Benthic invert carnivore/omnivore (RM 0–6)



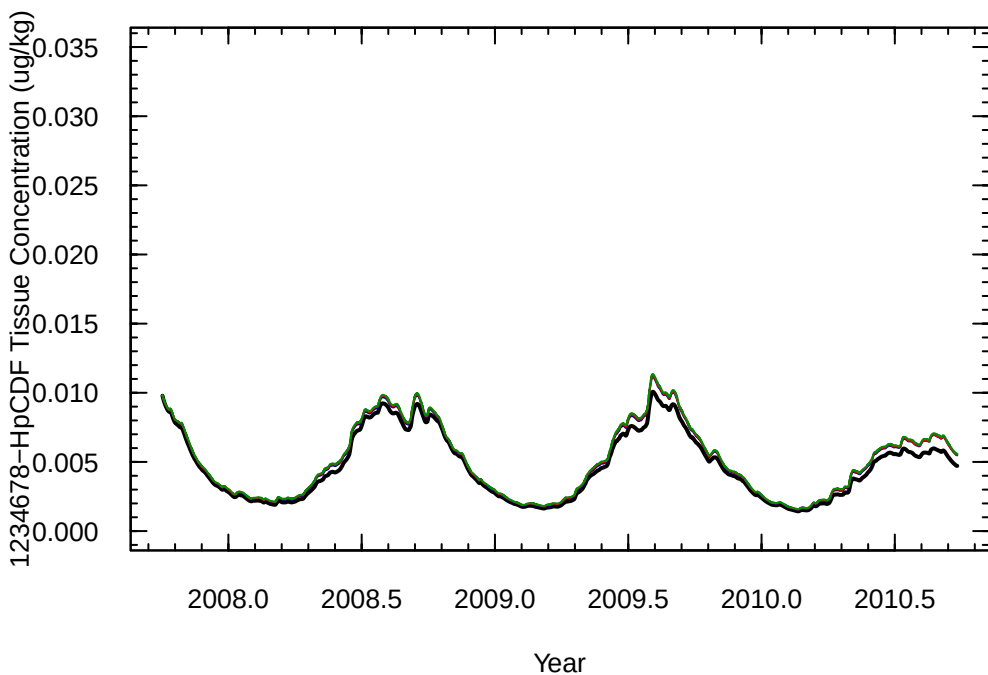
Benthic invert carnivore/omnivore (RM 6–14.7)



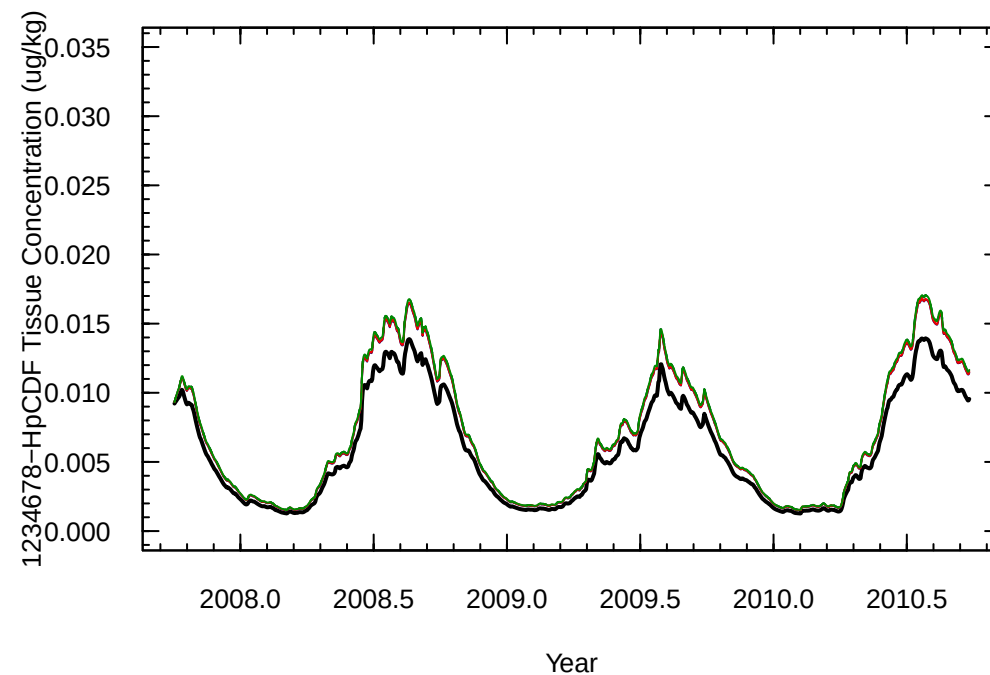
Benthic invert carnivore/omnivore (RM 14.7–Dam)



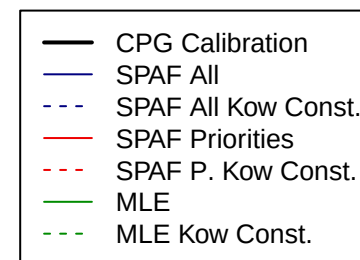
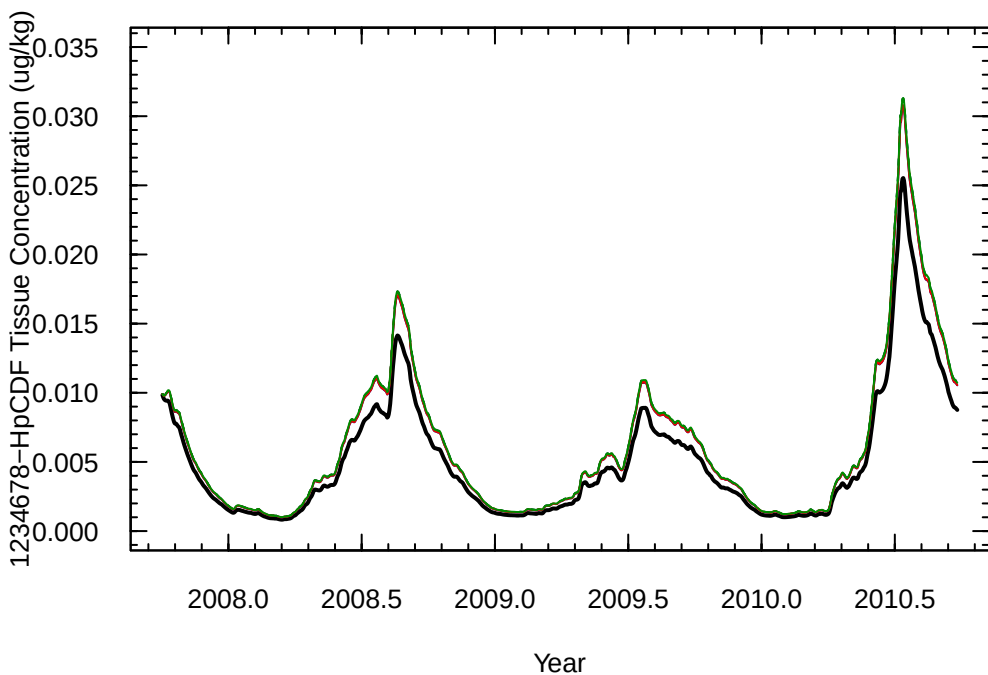
Small filter feeding fish (RM 0–6)



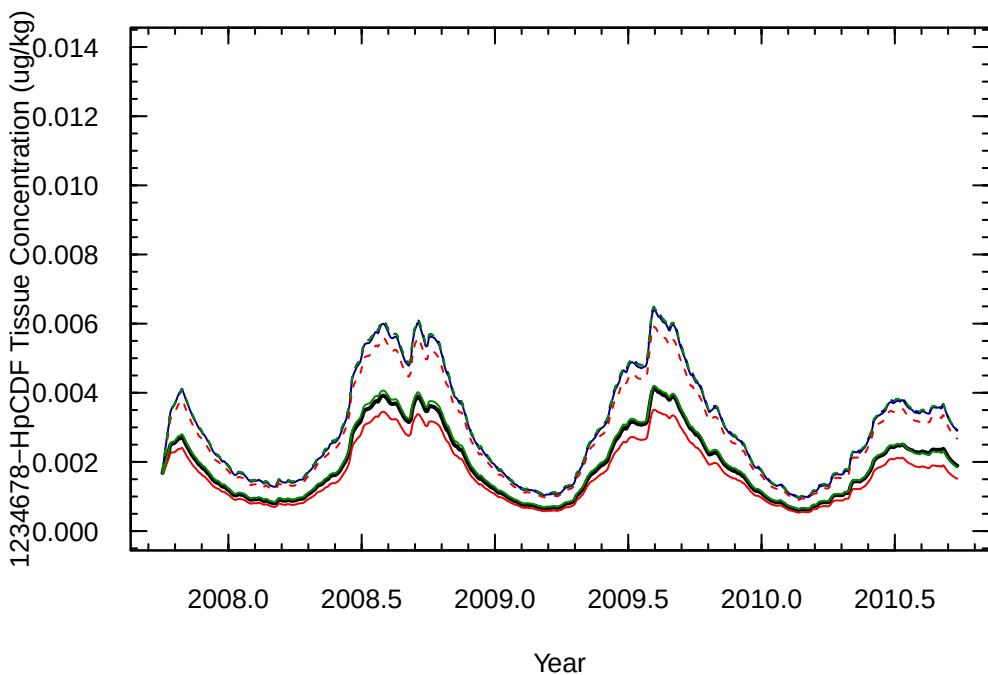
Small filter feeding fish (RM 6–14.7)



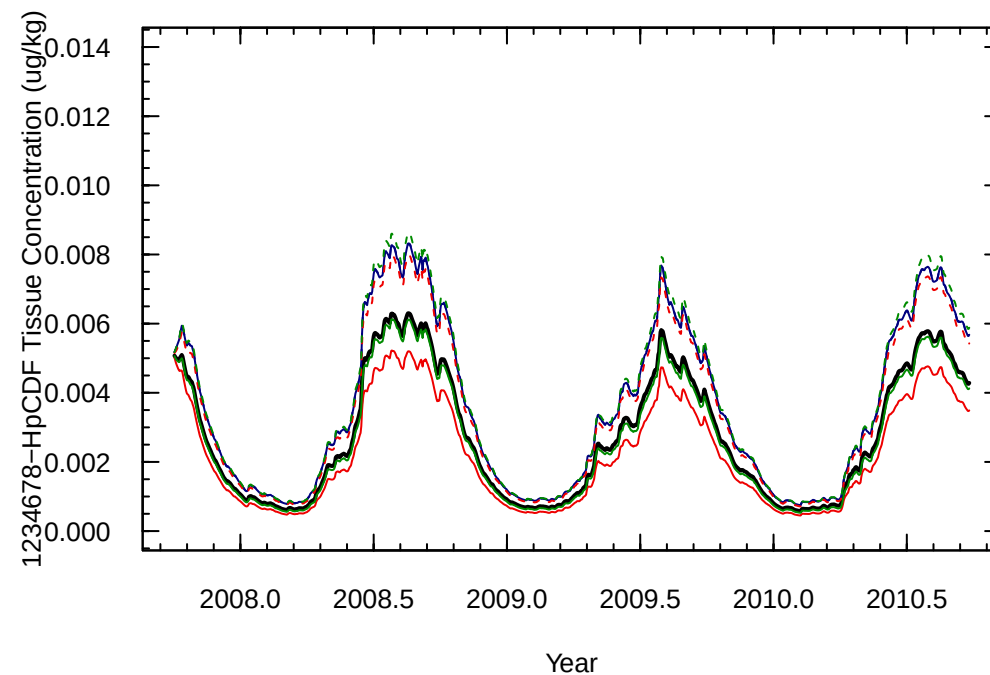
Small filter feeding fish (RM 14.7–Dam)



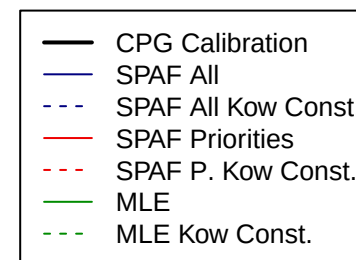
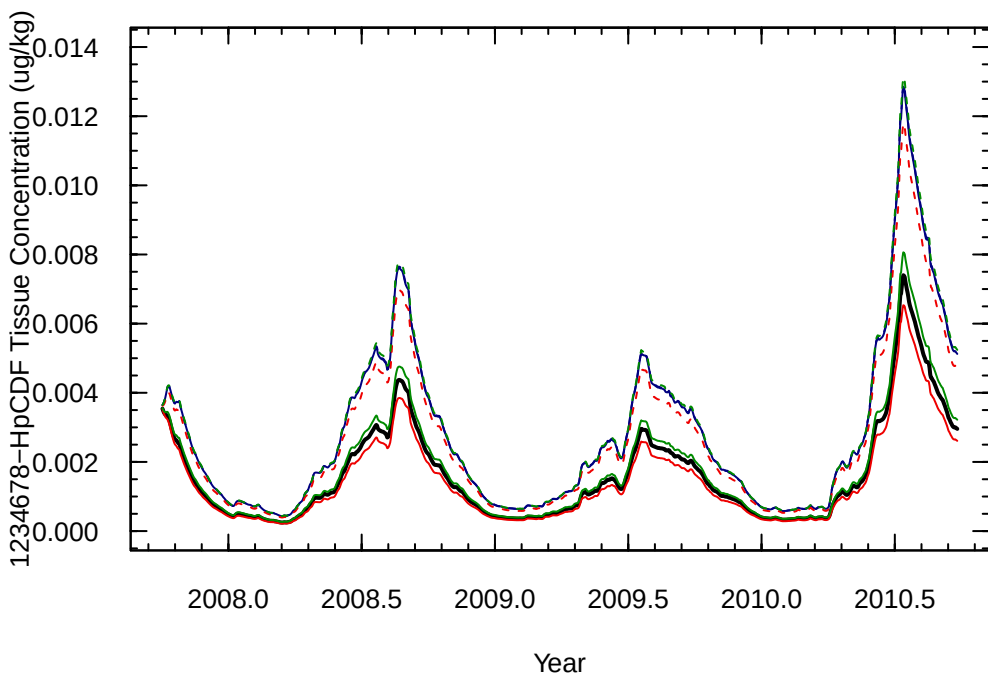
Small forage fish (RM 0–6)



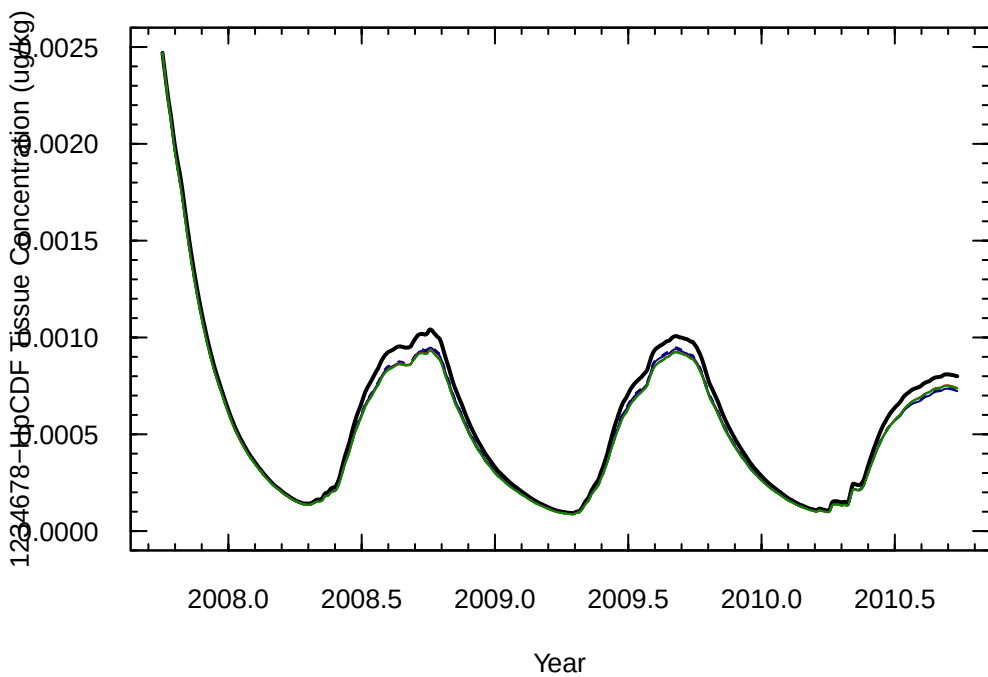
Small forage fish (RM 6–14.7)



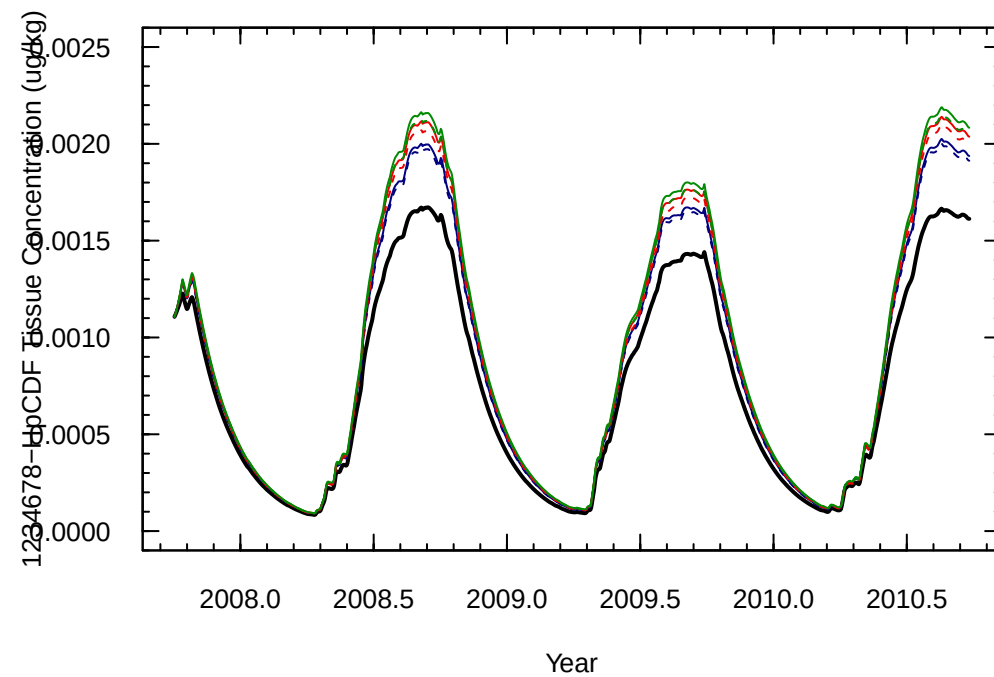
Small forage fish (RM 14.7–Dam)



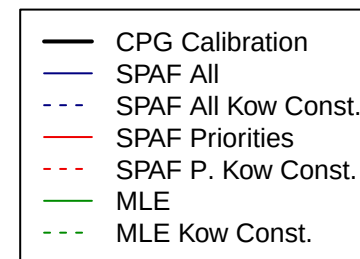
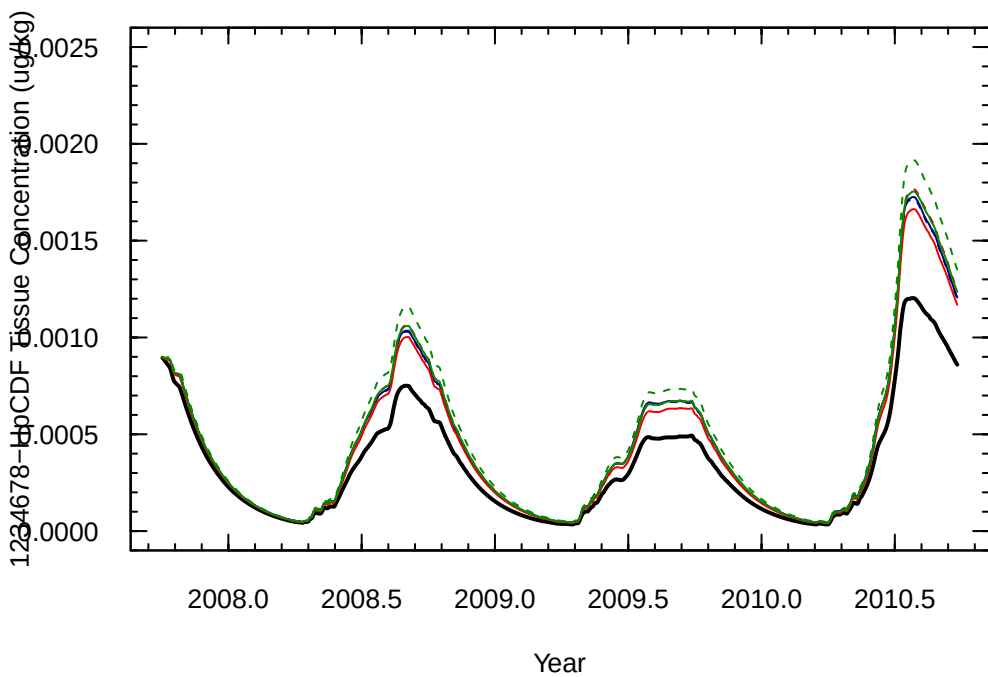
Small American eel (RM 0–6)



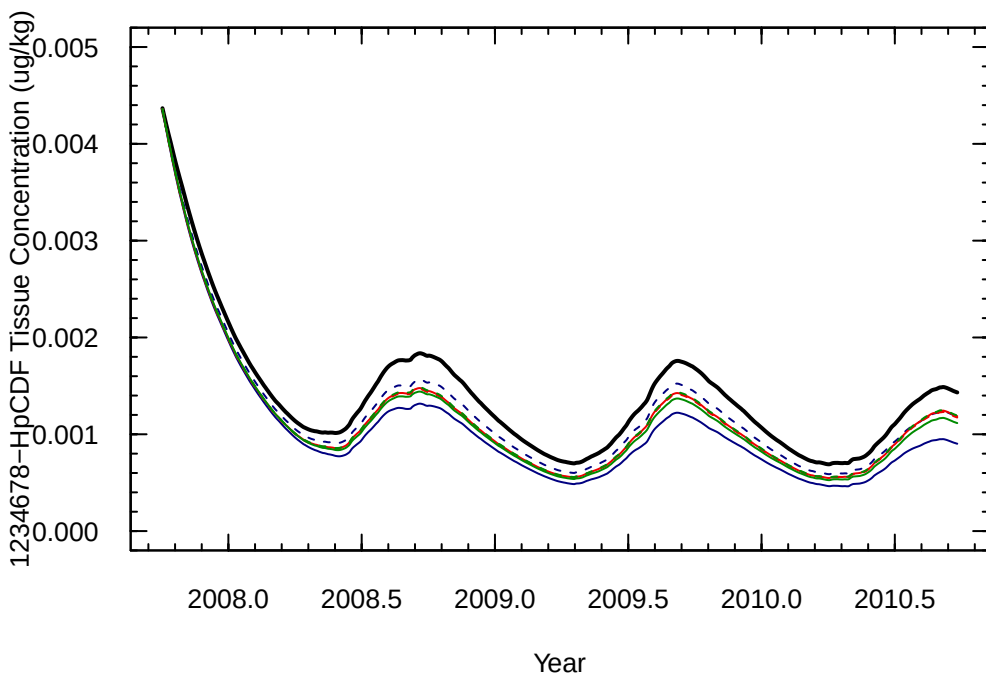
Small American eel (RM 6–14.7)



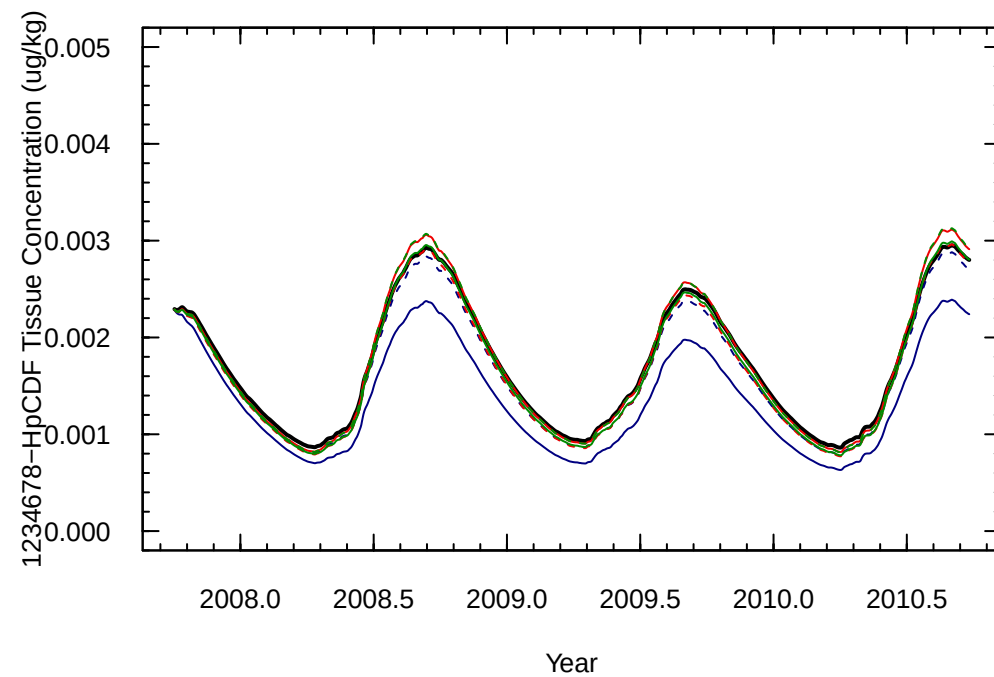
Small American eel (RM 14.7–Dam)



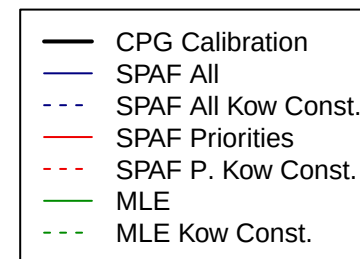
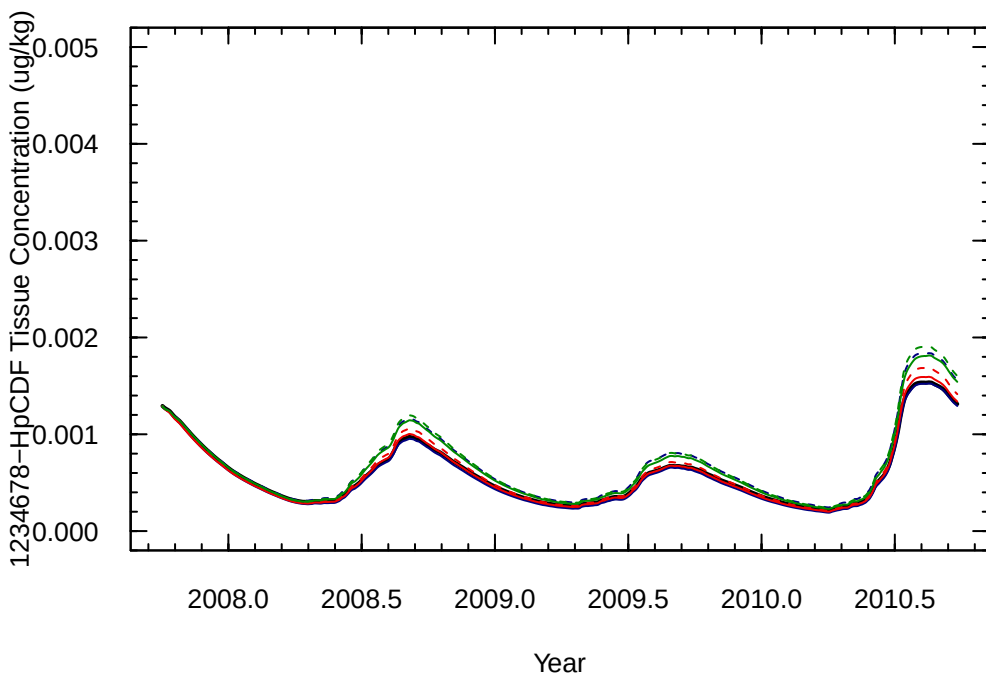
Blue crab (RM 0–6)



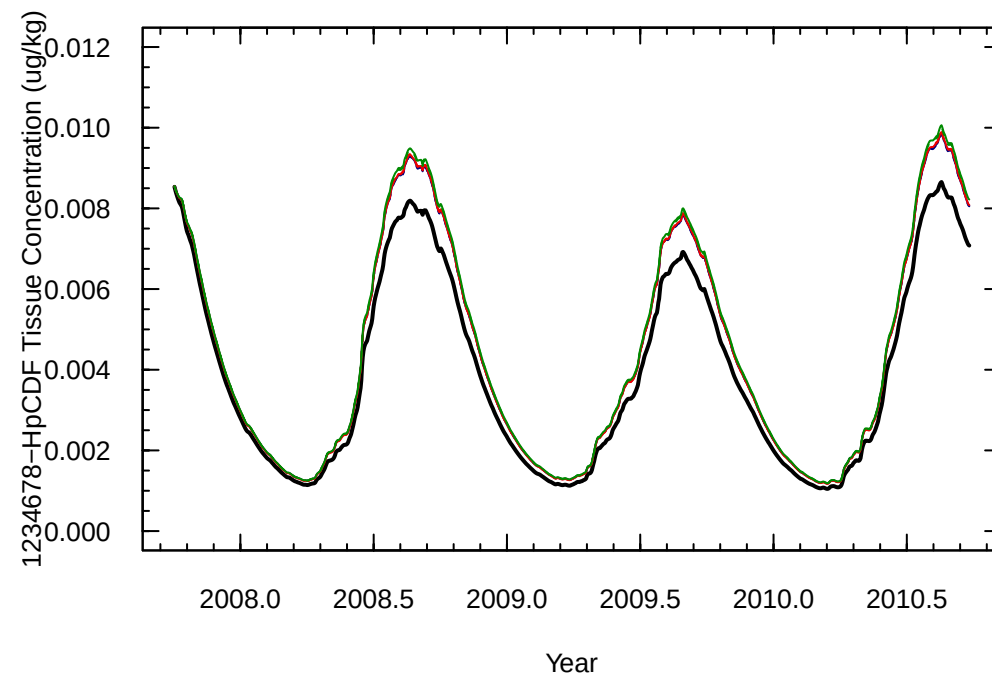
Blue crab (RM 6–14.7)



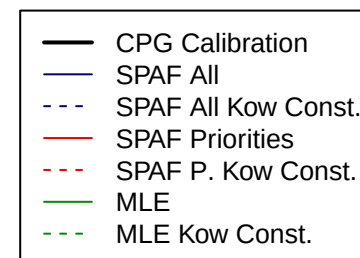
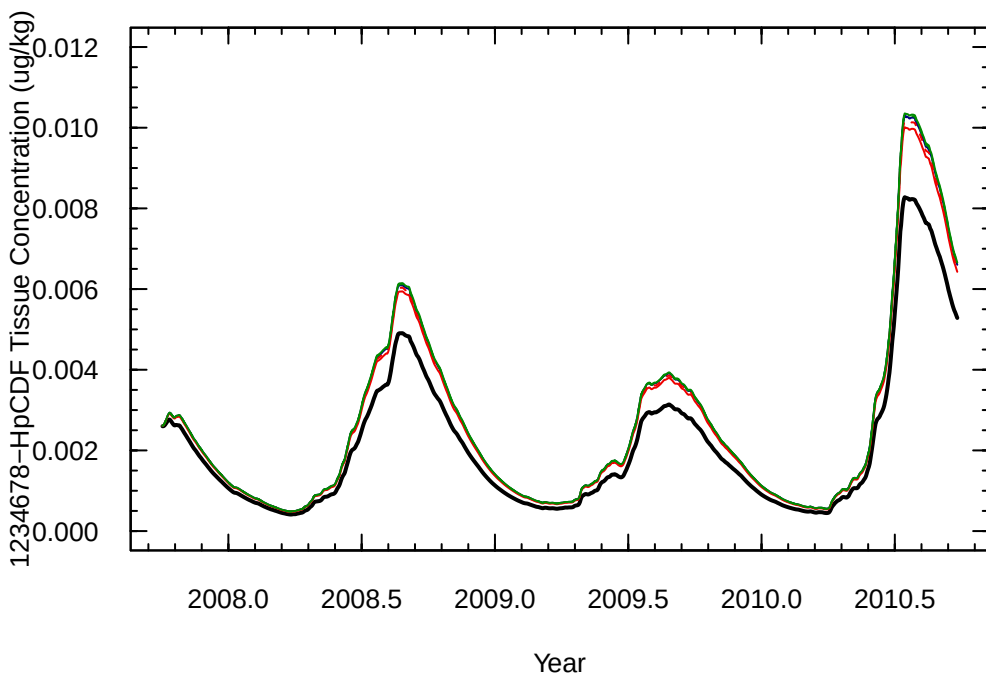
Blue crab (RM 14.7–Dam)



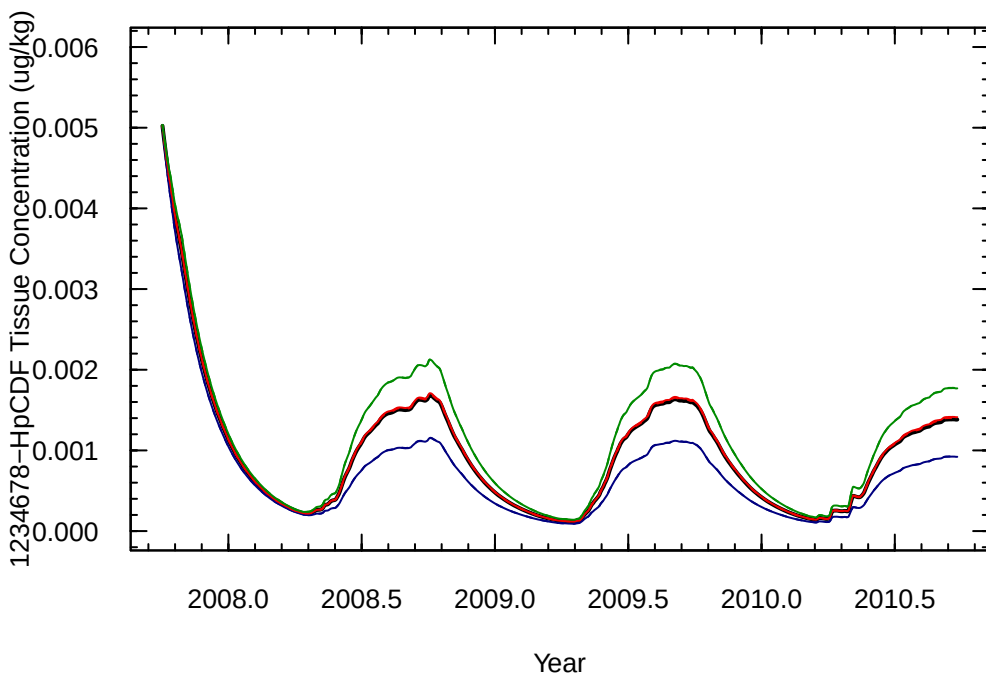
Carp (RM 6–14.7)



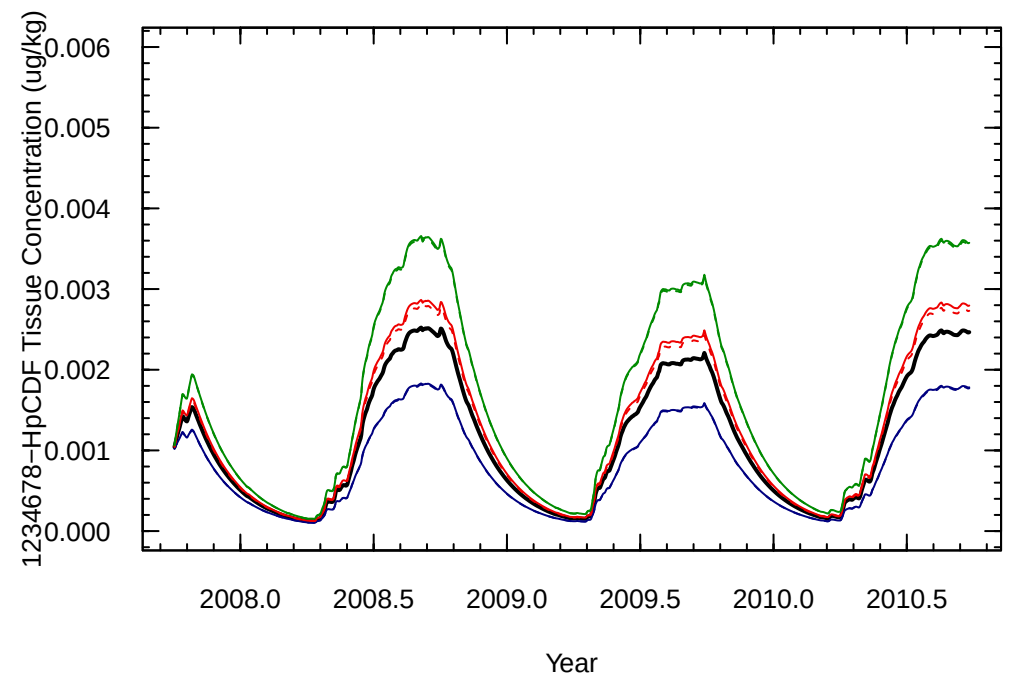
Carp (RM 14.7–Dam)



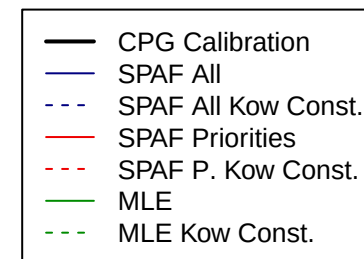
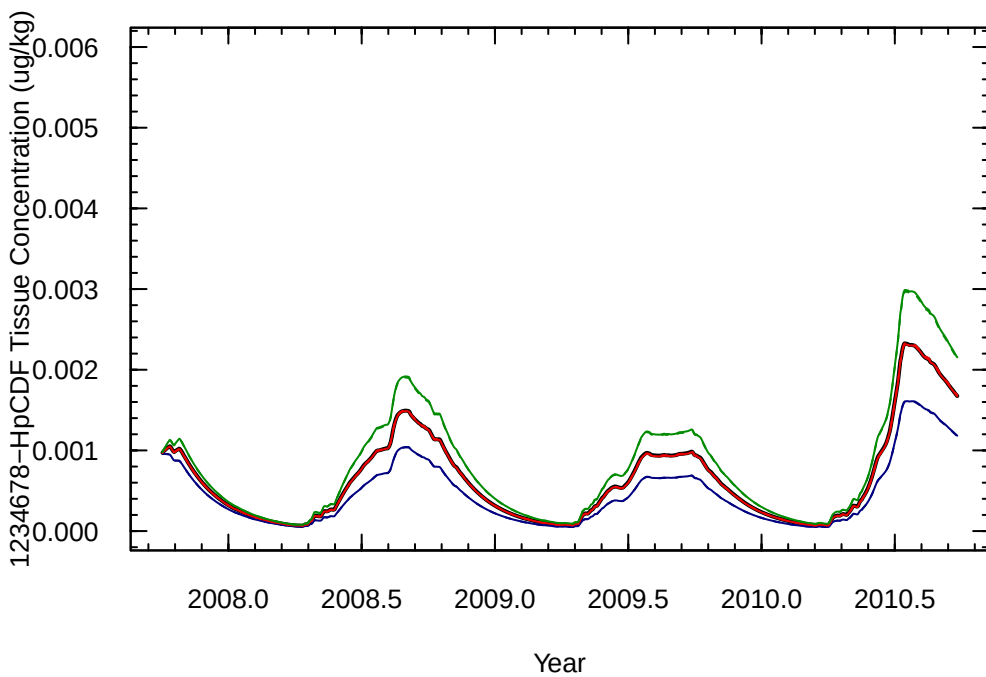
Catfish (RM 0–6)



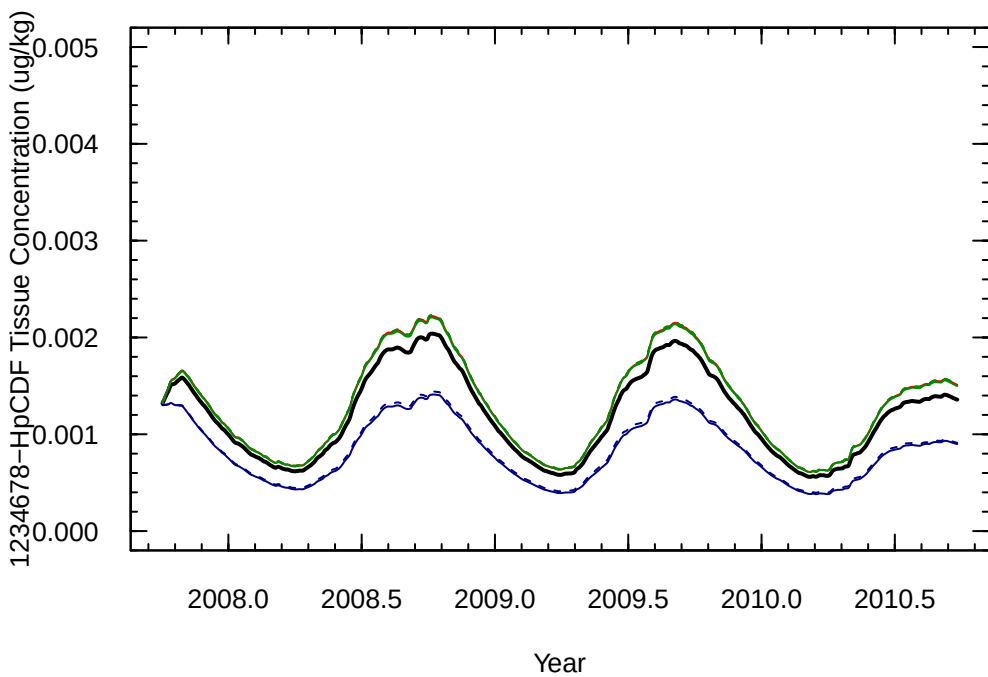
Catfish (RM 6–14.7)



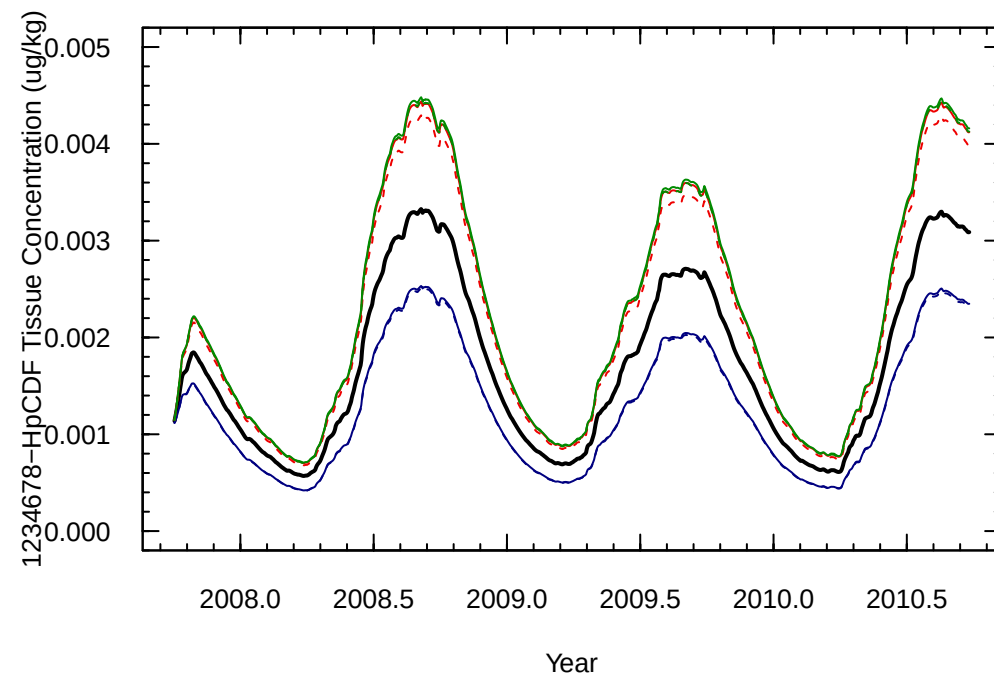
Catfish (RM 14.7–Dam)



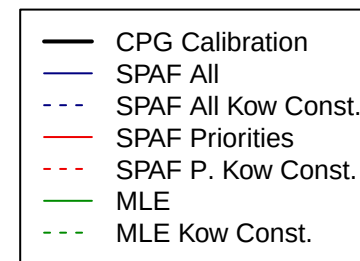
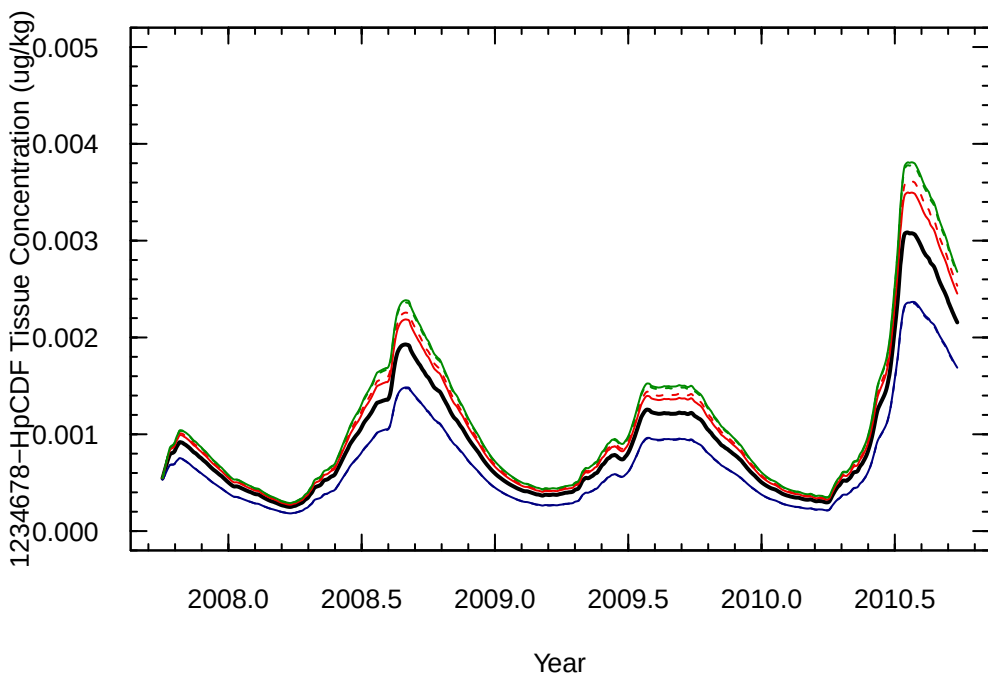
White perch (RM 0–6)



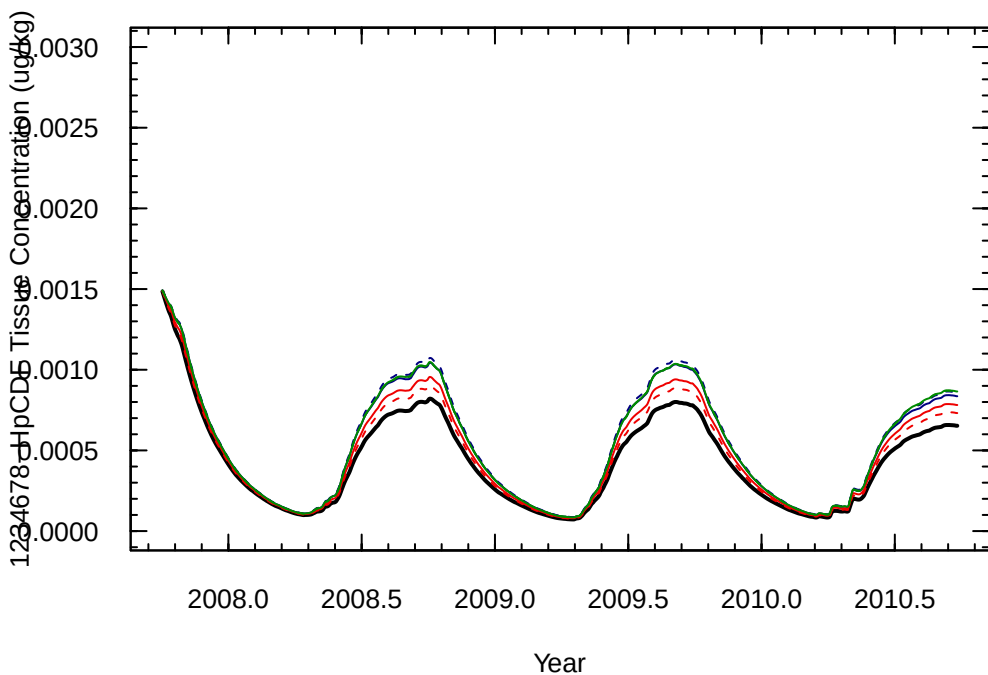
White perch (RM 6–14.7)



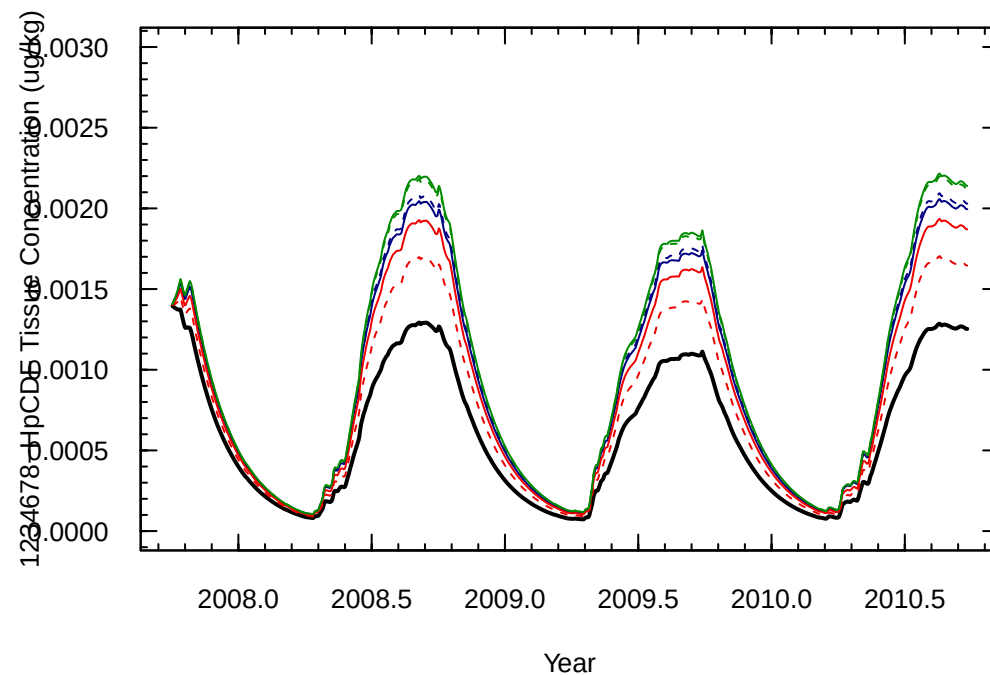
White perch (RM 14.7–Dam)



Large American eel (RM 0–6)



Large American eel (RM 6–14.7)



Large American eel (RM 14.7–Dam)

