6.4 gpm

TRANSPORT Consecutive Station Log: BMAP-10-01

May 7, 2010, RV Terrapin

Station	Date	Time (LMT)	Latitude	Longitude	Depth (m)	BTMØØ2 CTD	Pump Samples	Water Samples	Notes
01	5/7/10	8:51	38.38.183	07 19.648	33ft (9.9m)	BTMAP01	01	01	BTMAP-01
02	"	9:34	38 39.003	76 16.443	7m	BTMAPØ2			
03	"	10:02	38 41.264	76 16.971	5.4	BTMAPØ3			
04	"	10:38	38 42.916	76 15.605	6m	BTMAPØ4			
~~05~~	~~"~~	~~11:08~~	~~38 40.409~~	~~76 13.025~~	~~2.8m~~				
05	"	11:13	38 40.343	76 13.214	5.0m	BTMAPØ5			
06	"	11:38	38 38.380	76 11.822	10.0m	BTMAPØ6			
07	"	12:03	38 39.964	76 10.871	5.3m	BTMAPØ7			
Ø8	"	12:37	38 37.768	76 07.942	10.8m	BTMAPØ8			
Ø9	"	13:04	38 35.814	76 06.973	4.7m	BTMAPØ9			
10	"	13:30	38 35.927	76 04.993	13.8m	BTMAP10			
11	"	14:03	38 34.802	76 03.457	8.5m	BTMAP11			
12	"	14:24	38 34.560	76 02.535	4.5m	BTMAP12			
13	"	14:47	38 35.333	76 00.605	8.2m	BTMAP13			
14	"	15:08	38 36.360	75 58.991	9.2m	BTMAP14			
15	"	15:33	38 38.046	75 58.970	3.8m	BTMAP15			

add Secchi Depth

BMAP-10-01 Water Sample Log

(Secchi

Sample Number	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume (ml) through filter	Time (GMT)
1	01	0.5			50	13:13
2	Ø2	Ø.5	~~2.1~~	~~2.0 Wetlab~~	30	13:47
3	Ø3	4.4	0.085	0.74		14:07
4	Ø4	5.5	0.062	0.122		14:53
5	Ø5	5.0	0.049	0.265		15:26
6	Ø6	10.0	0.051	0.645		15:53
7	07	5.3	NO	PUMP	SAMPLE	
8	Ø8	10.8	.055	0.353		16:51 → Possible [illegible] contamination
9	Ø9	4.0	0.076	0.479	bottom	17:07
10	10	13.5	0.060	0.306	surf	17:50
11	11	8.5	0.062	0.322	"	18:17 – lost mark bad
12	12	7.7	0.143	0.309	bottom	18:49
13	13	9.0	↓	↓	↓	↓
14						
15	15	3.5	0.106	0.397	bottom	19 36
16		0.5	0.105	0.339	Surface	19 46
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

BMAP-10-01 Plankton Sample Log

Sample Number	Station Number	Interval	Interval Bottom (m)	Interval Top (m)	Volume Filtered	Time ~~Duration~~
1	01	Oblique	9.15	Surface	568.5 - 628.4	
2	02	Oblique	7.00	Surface	650.0 - 700.9	
3	03	Oblique	4.4	Surface	745 - 802	10:10 - 10:19
4	04	Oblique	5.5	Surface	811 - 870	10:42 - 10:51
5	05	Oblique	4.7	Surface	904 - 957	11:17 - 11:25
6	06	Oblique	9.0	Surface	980 - 1039	11:42 - 11:51
7	07	Oblique	4.6	Surface	1064 - 1129	12:06 - 12:16
8	08	Oblique	10.0	Surface	1136 - 1198	12:40 - 12:50
9	09	Oblique	4.0	Surface	1229 - 1282	13:08 - 13:16
10	10	Oblique	13.5	Surface	1294 - 1353	13:37 - 13:49
11	11	Oblique	7.8	Surface	1370 - 1415	14:08 - 14:15
12	12	Oblique	4.0	"	1435 - 1488	14:27 - 14:35
13	13	Oblique	8.2	"	1498 - 1550	14:50 - 14:58
14	14	Oblique	8.5	"	1557 - 1615	15:11 - 15:20
15	15	"	3.4	"	1632 - 1676	15:37 - 15:44
16						
17		[illegible]	[illegible]			
18		Oblique	[illegible]			
19		Bottom	9.15 - 7.8			
20		[illegible]	[illegible]			
21		[illegible]	[illegible]			
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

O= oblique S= surface
B= bottom P= pycnocline

BT10-10-03 Water Sample Log

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	Station Notes
Both	1	9.5	0.12	0.26	20		1.4 m	bott. temp 22.1°C - B
Surf	2	7.5	0.07	0.27	20	13:27	1.3 m	bot. temp 23.3°C
None	3	5.0					1.5 m	bot. temp 24.3°C
None	4						1.2 m	bot. temp 25.5°C
Bot.	5	4.2	0.18	0.42	20	14:49	1.0 m	" " 23.9°C - bott. chl ↑
None	6	9.5					1.4 m	bot. temp 23.1°C
None	7	4.5					1.1 m	" " 24.1°C
Surf.	8	10.5	0.08	0.22	20	16:27	1.1 m	bot. temp. 23.6°C
None	9	4.4					1.3 m	" " 23.9°C
None	10	12.0					0.9 m	" " 23.7°C
Bot.	11	8.0	0.28	0.19	20	17.40	0.8 m	bot. temp. 23.8°C
None	12	3.5					0.7 m	" " 24.7°C
None	13	6.5					0.5 m	" " 24.5°C
Surf.	14	0.5	0.16	0.93	20	19:08	0.5 m	cast 14 surf. hex - surf. chl bloom
Bott.	15	3.0	0.29	0.49	20	19:21	0.4 m	bot. temp 25.7°C

1 B
2
5 - B
8
11 - B
→ 14

TRANSPORT Consecutive Station Log: BT10-10-03

June 2nd
~~May 28~~, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
1	0833	10	38°38.146	76°19.711	B(P)	7.0 - 9.50	5:07	3559-3590	984-1015	Btm 201
1	"	"	"	"	S	0.5 - 6.50	6:25	3601-3638	1028-1065	"
2	0909	8.0	38°39.012	76°16.462	B	4.0 - 7.50	4:23	3659-3684	1081-1107	02
2	"	"	"	"	S	0.5 - 3.50	4:42	3688-3714	1111-1138	"
3	0940	5.5	38°41.237	76°16.953	B	2.5 - 4.50	4:31	3745-3771	1160-1186	03
3	"	"	"	"	S	0.5 - 2.0	5:20	3774-3805	1189-1220	"
4	1009	6.0	38°42.915	76°15.650	B	3.0 - 5.5	5:35	3833-3866	1235-1267	04
"	"	"	"	"	S	0.5 - 2.5	5:37	3875-3908	1276-1308	"
5	1042	4.6	38°40.320	76°13.122	B	2.0 - 4.2	5:04	3940-3969	1329-1357	05
5	"	"	"	"	S	0.5 - 1.5	5:14	3970-4001	1359-1389	"
6	1111	10.0	38°38.404	76°11.809	B	5.5 - 9.5	5:43	4021-4054	1403-1435	06
6	"	"	"	"	S	0.5 - 5.0	5:41	4057-4093	1437-1469	"
7	1137	5.2	38°39.945	76°10.861	B	2.5 - 4.5	4:41	4111-4129	1481-1498	07
7	"	"	"	"	S	0.5 - 2.0	4:38	4130-4146	1499-1513	"
8	1206	10.8	38°37.779	76°07.950	B	5.5 - 10.5	6:47	4164-4203	1520-1533	08
8	"	"	"	"	S	0.5 - 5.0	6:59	4206-4245	1534-1543	"
9	1241	4.8	38°35.823	76°07.005	B	2.5 - 4.4	4:22	4269-4295	1556-1583	09
9	"				S	0.5 - 2.0	4:37	4297-4323	1586-1614	"
10	1311	12.6	38°35.964	76°05.010	B	6.5 - 12.0	5:27	4342-4363	1629-1664	10
10	"	"	"	"	S	0.5 - 6.0	6:12	4365-4382	1667-1704	"
11	1337	8.5	38°34.809	76°03.448	B	4.0 - 7.5	4:34	4390-4410	1712-1740	"
11					S	0.5 - 3.5	4:53	4412-4432	1743-1773	"
12	1359	4.1	38°34.543	76°02.507	B	2.5 - 3.5	5:09	4444-4464	1795-1826	12

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

page ____

TRANSPORT Consecutive Station Log: BT10-10-03

June 2nd

[redacted], 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
12	1359	4.1	38° 34.543	76° 02.507	S	0.5 - 2.0	5:01	4466 - 4484	1829 - 1859	12
13	1427	7.0	38° 35.340	76° 00.589	B	4.0 - 7.0	4:28	4496 - 4517	1869 - 1896	13
13	"	"	"	"	S	0.5 - 3.5	5:20	4520 - 4542	1901 - 1933	"
14	1451	10.0	38° 36.355	75° 58.949	B	5.0 - 9.5	4:50	4551 - 4571	1941 - 1971	14
14	"	"	"	"	S	0.5 - 4.5	4:59	4572 - 4592	1974 - 2004	"
15	1517	3.5	38° 38.131	75° 58.947	B	2.0 - 3.0	5:14	4619 - 4640	2036 - 2061	15
15	"	"	"	"	S	0.5 - 1.5	5:15	4641 - 4662	2069 - 2100	"

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

page ____

TRANSPORT Consecutive Station Log: BT10-10-04

June 8, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
8	0805	10.5	38 37.744	76° 07.921	B	5.0 - 10.0	4:39	4836 - 4858	2158 - 2188	st ∅8
8	"	"	"	"	S	0.5 - 4.5	4:24	4862 - 4881	2194 - 2222	"
9	0840	4.0	38°35.874	76°06.936	B	2.0 - 3.0	4:16	4903 - 4923	2250 - 2268	st ∅9
9	"	"	"	"	S	0.5 - 1.5	4:19	4927 - 4946	2271 - 2287	"
10	0907	13.5	38° 35.873	76°05.013	B	6.5 - 11.5	5:44	4960 - 4989	2296 - 2327	st 10
10	"	"	"	"	S	0.5 - 6.0	6:04	4993 - 5020	2331 - 2361	"
11	0946	8.0	38 34.820	76° 03.478	B	4.0 - 7.0	5:00	5037 - 5066	2378 - 2410	st 11
11	"	"	"	"	S	0.5 - 3.5	6:00	5069 - 5100	2415 - 2452	"
12	1014	4.5	34.537	76° 02.472	B	2.0 - 3.5	5:10	5113 - 5140	2461 - 2493	st 12
12	"	"	"	"	S	0.5 - 1.5	5:03	5143 - 5168	2496 - 2523	"
13	1042	7.6	38° 35.307	76° 00.523	B	3.5 - 6.5	4:29	5191 - 5215	2540 - 2567	st 13
13	"	"	"	"	S	0.5 - 3.0	5:07	5219 - 5245	2571 - 2602	"
14	1108	10.0	38 36.370	75°58.988	B	5.0 - 9.0	4:24	5255 - 5275	2610 - 2637	st 14
14	"	"	"	"	S	0.5 - 4.5	5:08	5277 - 5297	2640 - 2671	"
15	1135	4.0	38°38.101	75°58.992	B	2.0 - 3.5	4:39	5315 - 5337	2686 - 2712	st 15
15	"	"	"	"	S	0.5 - 1.5	4:36	5339 - 5361	2713 - 2728	"
∅1	1344	10.0	38° 38.140	76° 19.647	B	7.0 - 9.5	4:45	5676 - 5705	2868 - 2897	st ∅1-6
∅1	"	"	"	"	P	3.5 - 6.5	4:31	5708 - 5736	2901 - 2928	"
∅1	"	"	"	"	S	0.5 - 3.0	4:35	5739 - 5767	2932 - 2960	"
∅2	1418	8.0	38° 39.004	76° 16.479	B	6.5 - 7.5	5:00	5784 - 5815	2971 - 3001	st ∅2
"	"	"	"	"	P	5.0 - 6.0	4:46	5818 - 5847	3005 - 3034	"
"	"	"	"	"	S	0.5 - 4.5	5:00	5849 - 5879	3036 - 3066	"
∅3	1450	5.0	38° 41.284	76° 16.996	B(P)	3.0 - 4.5	4:43	5897 - 5925	3079 - 3107	st ∅3

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-10-04

June 8, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
Ø3	1450	5.0	38° 41.284	76° 16.996	S	0.5 - 2.5	4:57	5929 - 5957	3111 - 3140	"
Ø4	1514	6.0	38° 42.916	76° 15.640	B	3.5 - 5.5	4:43	5969 - 5998	3149 - 3178	stØ4
"	"	"	"	"	S	0.5 - 3.0	5:19	6003 - 6032	3183 - 3215	"
Ø5	1543	4.0	38° 40.358	76° 13.151	B	2.0 - 3.5	4:28	6044 - 6069	3221 - 3248	stØ5
"	"	"	"	"	S	0.5 - 1.5	4:37	6071 - 6096	3250 - 3277	"
Ø6	1605	9.6	38° 38.382	76° 11.835	B	5.0 - 9.0	4:41	6108 - 6134	3285 - 3313	stØ6
"	"	"	"	"	S	0.5 - 4.5	5:09	6135 - 6163	3314 - 3344	"
Ø7	1627	5.0	38° 39.933	76° 10.868	B	2.5 - 4.5	4:28	6177 - 6200	3355 - 3381	stØ7
07	"	"	"	"	S	0.5 - 2.0	4:36	6202 - 6226	3383 - 3409	"

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-10-04 Water Sample Log 6/8/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	Station Notes
TSS + Chl Surf.	8	0.5	0.09	0.30	20	12:26	0.85	bottom temp 25°C well-mixed
Bot.	9	3.0	0.12	0.38	20	12:47	0.80	" temp 25.5°C
Surf.	10	0.5	0.12	0.39	20	13:33	0.75	" temp 25
Bot.	11	7.0	0.25	0.36	20	13:52	0.60	" " 25.6°C
Surf.	12	0.5	0.18	0.45	20	14:31	0.65	" " 25.5°C
Bot.	13	6.5	0.35	0.32	20	14:48	0.55	" " 25.9°C
Surf.	14	0.5	0.24	0.74	20	15:26	0.55	" " 26.1°C
Bot	15	3.5	0.28	0.57	20	15:42	0.50	" " 26.0°C
None	Ø1						2.20	
Bot.	Ø2	7.5	0.05	0.24	20	16:25	1.70	" " 19.0°C low O_2 at bottom
None	Ø3						1.10	" " 23.5°C
Bot.	Ø4	5.5	0.18	0.32	20	19:20	0.90	" " 25.4°C
None	Ø5						1.10	
None	Ø6						1.00	
	Ø7						1.0	" " 25.3°C

TRANSPORT Consecutive Station Log: BT10-10-05

June 14, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
01	0756	10.0	38°38.079	76°19.722	B(P)	7.0 - 9.5	4:26	6369 - 6396	3470 - 3498	st01
01	"	"	"	"	S	0.5 - 6.5	5:10	6400 - 6432	3502 - 3533	"
02	0834	5.0	38°38.868	76°16.394	B	4.0 - 7.5	4:27	6455 - 6484	3549 - 3576	st02
02	"	"	"	"	S	0.5 - 3.5	4:23	6485 - 6517	3582 - 3608	"
03	0859	5.4	38°41.259	76°17.086	B	2.5 - 5.0	4:22	6532 - 6560	3617 - 3643	st03
03	"	"	"	"	S	0.5 - 2.0	5:12	6562 - 6594	3645 - 3675	"
04	0930	6.0	38°42.271	76°15.667	B	3.0 - 5.5	4:04	6617 - 6642	3694 - 3718	st04
04	"	"	"	"	S	0.5 - 2.5	4:23	6644 - 6670	3720 - 3745	"
05	0957	4.5	38°40.326	76°13.195	B	2.5 - 4.0	4:09	6686 - 6710	3755 - 3779	st05
05	"	"	"	"	S	0.5 - 2.0	4:23	6712 - 6734	3781 - 3806	"
06	1020	9.5	38°38.421	76°11.880	B	5.0 - 9.0	4:20	6742 - 6765	3811 - 3836	st06
06	"		"	"	P	2.5 - 4.5	4:33	6768 - 6789	3839 - 3864	"
06	"		"	"	S	0.5 - 2.0	4:29	6792 - 6808	3868 - 3891	"
07	1050	5.0	38°39.953	76°10.907	B	2.5 - 4.5	4:43	6820 - 6844	3901 - 3927	st07
07	"	"	"	"	S	0.5 - 2.0	4:39	6846 - 6866	3929 - 3953	"
08	1116	11.0	38°37.796	76°07.972	B	8.0 - 10.5	5:13	6875 - 6901	3961 - 3990	st08
08	"	"	"	"	P	2.0 - 7.5	5:22	6903 - 6924	3993 - 4019	"
08	"	"	"	"	S	0.5 - 1.5	5:28	6925 - 6945	4021 - 4047	"
09	1153	4.7	38°35.833	76°07.024	B	2.0 - 4.0	5:32	6957 - 6981	4052 - 4083	st09
09	"	"	"	"	S	0.5 - 1.5	5:30	6983 - 7000	4083 - 4111	"
10	1218	12.8	38°35.947	76°05.037	B	6.0 - 12.0	5:51	7009 - 7039	4117 - 4144	st10
10					S	0.5 - 5.5	6:03	7040 - 7070	4145 - 4172	"
11	1245	8.1	38°34.824	76°03.453	B	4.0 - 8.0	5:26	7087 - 7119	4182 - 4206	st11

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-10-05

June 14, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
11	1245	8.1	38°34.824	76°03.453	S	0.5 - 3.5	5:35	7123 - 7152	4209 - 4230	St 11
12	1310	4.2	38°34.550	76°02.473	B	2.0 - 3.5	5:21	7165 - 7193	4237 - 4256	St 12
12	"	"	"	"	S	0.5 - 1.5	5:25	7195 - 7219	4257 - 4274	"
13	1332	7.6	38°35.314	76°00.556	B	5.0 - 6.5	5:44	7233 - 7258	4282 - 4300	St 13
13	"	"	"	"	P	3.0 - 4.5	6:35	7259 - 7282	4301 - 4315	St 13
13	"	"	"	"	S	0.5 - 2.5	11:15	7284 - 7335	4316 - 4319	"
14	1415	12.1	38°36.159	75°59.036	B	5.0 - 10.5	6:30	7363 - 7383	4325 - 4352	St 14
14	"	"	"	"	S	0.5 - 4.5	6:37	7383 - 7403	4353 - 4382	"
15	1441	4.0	38°38.101	75°58.983	B	2.5 - 3.5	6:34	7413 - 7443	4388 - 4409	St 15
15	"	"	"	"	S	0.5 - 2.0	10:37	7447 - 7492	4411 - 4418	"

pump pm loss

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-10-05 Water Sample Log 6/14/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	Station Notes
None	Ø1	—			—	—	1.45	bot. temp 21°C
Bot.	Ø2	7.5	0.11	0.52	20	12:40	1.0	" " 24.5°C
None	Ø3	—				—	1.15	" " 24.8°C
Bot.	Ø4	5.5	0.09	0.58	20	13:35	1.15	" " 25.6°C
None	Ø5	—				—	0.90	
Surf.	Ø6	0.5	0.06	0.43	20	14:41	1.20	" " ~24°C
None	Ø7	—				—	0.80	" " 25°C
Bot.	Ø8	10.5	0.23	0.35	20	15:21	0.85	" " 24.1°C
None	Ø9	—				—	0.70	" " 25.6
Surf.	10	0.5	0.12	0.79	20	16:38	0.65	" " 25.7
Bot.	11	7.5	0.27	0.61	20	16:50	0.35	" " 26°C
None	12	—				—	0.60	" " 26.4
Surf.	13	0.5	0.20	1.18	20	18:05	0.20	st13_surf.hex
None	14	—				—	0.25	
Bot.	15	3.5	0.24	0.93	20	18:46	0.25	bot. temp 26.8

TRANSPORT Consecutive Station Log: BT10-10-06

June 18, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT0[illegible]6 CTD
Ø1	0806	10	38°38.164	76°19.568	B	5.0 - 9.5	4:57	7779 - 7812	4535 - 4568	stØ1
Ø1	"	"	"	"	S	0.5 - 4.5	4:46	7814 - 7845	4570 - 4601	"
Ø2	084	7.9	38°38.948	76 16.340	B	3.5 - 7.5	4:07	7880 - 7907	4632 - 4660	stØ2
Ø2	"	"	"	"	S	3.5 - 0.5	4:08	7915 - 7941	4669 - 4695	"
03	0909	5.6	38 41.242	76 16.982	B	5.0 - 2.5	4:03	7957 - 7982	4706 - 4731	stØ3
03	"	"	"	"	S	2.5 - 0.5	4:28	7985 - 8011	4734 - 4761	"
Ø4	0938	6.1	38 42.913	76 15.666	B	3.0 - 5.5	4:28	8027 - 8054	4771 - 4798	stØ4
Ø4	"	"	"	"	S	0.5 - 3.0	4:44	8056 - 8083	4800 - 4827	"
Ø5	1003	5.9	38 40.295	76 13.145	B	3.0 - 5.5	4:28	8105 - 8132	4841 - 4866	stØ5
Ø5	"	"	"	"	S	0.5 - 3.0	4:36	8134 - 8160	4867 - 4890	"
Ø6	1031	10.1	38 38.370	76 11.803	B	5.0 - 9.5	4:23	8177 - 8199	4901 - 4923	stØ6
Ø6	"	"	"	"	B	5.0	1:00	8203 - 8208	4928 - 4933	- extra gals.
Ø6	"	"	"	"	S	0.5 - 5.0	5:02	8210 - 8233	4935 - 4960	stØ6
07	1102	5	38 39.917	76 10.8[illegible]	B	5 - 2.5	5:24	8248 - 8274	4973 - 5000	stØ7
07	"	"	"	"	S	2.5 - 0.5	5:29	8277 - 8302	5003 - 5232	"
Ø8	1131	11.4	38 37.808	76 07.916	B	5.5 - 11.0	6:28	8314 - 8345	5039 - 5080	stØ8
Ø8	"	"	"	"	S	0.5 - 5.5	5:56	8347 - 8374	5082 - 5117	"
Ø9	1200	4.6	38 35.771	76 06.992	B	2.0 - 4.2	5:58	8386 - 8412	5124 - 5163	stØ9
Ø9	"	"	"	"	S	0.5 - 2.0	5:46	8414 - 8438	5166 - 5198	stØ9
10	1225	13.0	38 35.961	76 05.009	B	6.5 - 12.5	6:32	8449 - 8471	5211 - 5243	st10
10	"	"	"	"	S	0.5 - 6.5	6:35	8472 - 8489	5246 - 5278	"
11	1259	8.4	38 34.805	76 03.455	B	4.0 - 8.0	5:19	8499 - 8532	5286 - 5312	st11
11					S	0.5 - 4.0	5:30	8534 - 8562	5313 - 5338	"

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Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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TRANSPORT Consecutive Station Log: BT10-10-06

June 18, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
12	1322	4.4	38 34.543	76 02.518	B	2.0 - 4.0	5:51	8578-8607	5349 - 5379	st 12
12	"	"	"	"	S	0.5 - 2.0	6:17	8608 - 8634	5381 - 5415	st 12
13	1349	7.3	38 35.266	76 00.626	B	3.0 - 6.5	5:16	8643 - 8675	5422 - 5454	st 13
13	"	"	"	"	S	0.5 - 3.0	5:11	8679 - 8708	5458 - 5489	"
14	1419	14.0	38 36.103	75 59.093	B	7.0 - 13.5	5:44	8721 - 8751	5497 - 5527	st 14
14	"	"	"	"	S	0.5 - 7.0	6:07	8754 - 8785	5531 - 5562	"
15	1446	3.7	38 38.101	75 58.962	B	2.0 - 3.2	5:35	8810 - 8832	5579 - 5606	[illegible]
15	"	"	"	"	S	0.5 - 2.0	6:04	8837 - 8860	5612 - 5643	"

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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BT10-10-06 Water Sample Log 6/18/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH	T	Bottom temp Station Notes
None	01						2.0			
Tss/chl	02	7.5	.06593	0.4220	20	12:46	1.3	8.01		~~Bottom~~ 24.8
None	03						1.4	8.0		≥5.0
Tss/chl	04	0.5	.068	0.191	20	13:53	1.1	7.6	8.2	25.1 ↑chl @ bo
None	05						1.3		8.2	25.2
Tss/chl	06	9.5	0.188	0.533	20	14:37	1.1	8.0	8.1	25.6
None	07						0.85	8.0	8.0	
Tss/chl	08	0.5	0.081	0.101	20	15:50	1.0	8.0	8.0	25.4
None	09						0.8	7.9	7.9	25.8
Tss/chl	10	12.5	0.371	0.393	20	16:33	0.45	7.8	7.9	25.9
Tss/chl	11	0.5	0.162	0.581	20	17:17	0.65	7.8	8.0	26.0
None	12						0.35	7.8	8.0	26.1
Tss/chl	13	6.5	0.351	0.452	20	17:53	0.3	7.8	8.1	26.2
None	14						0.4	7.8	8.1	26.2
Tss/chl	15	3.2	0.34	0.619	20	18:33	0.2	7.8		26.5

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TRANSPORT Consecutive Station Log: BT10-10-07

June 23, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
01	8:01	9.9	38 38.067	076 19.645	B	9 – 5	4:00	9019 – 9048	5673 – 5710	01
01	8:18	9.9			S	5 – 0.5	4:52	9053 – 9077	5716 – 5741	01
02	8:36	[illegible]	[illegible]	76 16.555	B	[illegible]	5:06	[illegible]	[illegible]	02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
02	[illegible]	7.5	[illegible]	[illegible]	S	[illegible] – 0.5	[illegible]	9162 – 9189	[illegible]	02
03	9:27	4.5	38 41.341	76 17.019	B	[illegible] – 5	4:22	9212 – 9232	5869 – 5896	03
03	9:32	4.5			S	[illegible] – 0.5	5:13	[illegible]	[illegible]	03
04	9:52	6.0	38 42.925	[illegible]	S	[illegible] – 3.0	[illegible]	[illegible]	[illegible]	03
04	10:04	[illegible]			S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
05	10:22	[illegible]	38 40.329	76 [illegible].117	B	[illegible]	[illegible]	9352 – [illegible]	[illegible]	05
05	[illegible]	3.5			S	[illegible]	4:52	9350 – 9404	6056 – 6075	05
[illegible]	[illegible]	[illegible]	38 38.402	76 [illegible].562	S	[illegible]	[illegible]	[illegible] – 9440	[illegible] – 6123	[illegible]
[illegible]	[illegible]	[illegible]			S	[illegible]	[illegible]	9443 – 9464	[illegible] – 6152	[illegible]
07	[illegible]	4.5	[illegible]	[illegible]	B	[illegible]	[illegible]	9472 – [illegible]	[illegible]	[illegible]
07	[illegible]	4.5			S	[illegible]	[illegible]	[illegible]	[illegible] – 6222	07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] – 5.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	38 35.[illegible]	76 06.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			S	[illegible]	[illegible]	[illegible]	[illegible]	09
[illegible]	[illegible]	[illegible]	[illegible]	76 04.460	B	[illegible]	[illegible]	[illegible]	[illegible] – 6362	09
[illegible]	12:27	[illegible]			S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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TRANSPORT Consecutive Station Log: BT10-10-07

June 23, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	1:23	4.0	" "	" "	B	4-2.5	[illegible]	9530-9564	6529-6552	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	2.5-0.5	5:26	9567-[illegible]	[illegible]	[illegible]
13	[illegible]	7.0	[illegible]	[illegible]	B	6.5-3.5	4:39	[illegible]	[illegible]	13
13	[illegible]		" "	[illegible]	T	3.5-0.5	4:13	[illegible]	[illegible]	13
[illegible]	2:00	8.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9979-10005	[illegible]	[illegible]
[illegible]	2:15		" "	" "	[illegible]	[illegible]	[illegible]	10010-10037	6681-6706	[illegible]
15	2:17	[illegible]	[illegible]	[illegible]	B	4.0-2.5	4:19	10047-10070	6711-6736	[illegible]
15	[illegible]	"	" "	" "	T	2.5-0.5	5:01	10095-10102	[illegible]-6764	[illegible]

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

GO USA BEAT Algeria!!! 1-0

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BT10-10-07 Water Sample Log 6/23/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH top	pH _B	Bottom temp Station Notes
None	01						1.1	5m 8.3	5m 8.3	
		0.5	[illegible]	[illegible]	20		1.2	8.1	8.1	Surface
None	03						1.1	8.3	8.1	
Both	04	5.8	0.2344	0.35775	20	2:00	1.1	8.0	8.2	Surface Sample
None	05						1.2	8.2	[illegible]	
Both	06	0.5	[illegible]	[illegible]		3:00	[illegible]	8.2	8.2	Surface
None	07						1.0	[illegible]	8.1	
Both	08	7.6	0.14286	0.5 1404	20	3:35	1.2	8.1	8.0	Bottom
None	09						0.8	[illegible]	8.6	
None	10						0.9	8.2	7.9	
Both	11	3.5	[illegible]	[illegible]	20	[illegible]	0.7	8.1	8.0	Bottom
None	12							8.1	8.0	
Both	13	0.5	[illegible]	[illegible]	20	[illegible]	0.7	8.2	7.9	Surface
None	14						0.6	8.1	8.0	
Both	15	[illegible]	[illegible]	[illegible]	20	6:19	0.5	8.3	7.9	Bottom

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Where pH_B = Bottom pH

TRANSPORT Consecutive Station Log: BT10-10-08

June 28, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
15	8:11	4.0	38 38.071	075 58.893	B	3.5 - 2.0		8112	10214	15
15b	8:33	4.1	38 38.110	075 58.903	B	3.5 - 0.5		1017 - 1030	6857 - 6557	15b
15b		"	" "	" "						15b
14b	9:01	10.0	38 36.332	75 58.905	B	10 - 5	5:00	6865 - 6887	10320 - 10352	14b
14b	9:13	10.0	" "	" "	T	4.5 - 0.5	5:24	6890 - 6907	10356 - 10383	14b
13	9:33	6.5	38 35.290	76 00.653	B	6.5 - 3.5	5:44	6915 - 6935	10399 - 10425	13
13	[illegible]	6.5	" "	" "	T	3.0 - 0.5	5:50	6936 - 6953	[illegible] - 10453	13
12	[illegible]	10.0	38 34.610	76 02.543	O	4.0 - 0.5	8:00	6969 - 6990	10493 - 10521	12
12	[illegible]	10.0	" "	" "						12
11	10:35	7.0	38 34.910	76 03.604	B	7.0 - 4.0	3:42	7002 - 7032	10541 - 10569	11
11	10:50	" "	" "	" "	T	3.5 - 0.5	[illegible]	7032 - 7052	10570 - 10596	11
10	11:21	12	38 35.915	76 05.213	B	12 - 6	7:06	7060 - 7093	10608 - 10630	10
10	11:31	12	" "	" "	T	6.5 - 0	6:30	7096 - 7119	10632 - 10653	10
9	11:52	3.5	38 35.761	76 06.915	B	3.5 - 1.5	5:03	7126 - 7145	10663 - 10682	9
9	12:05	3.5	" "	" "	T	1.5 - 0.5	5:15	7151 - 7172	10685 - 10711	9
8	12:31	10.0	38 37.787	76 07.055	B	9.5 - 5.0	5:35	7186 - 7204	10714 - 10731	8
8	12:44	10.0	" "	" "	T	4.5 - 0.5		7206 - 7227	10732 - 10757	8
8b	1:00	4.5	38 37.750	76 07.595	T	4.5 - 0.5	5:45	7255 - 7277	[illegible] - 10836	8b
7	1:52	4.5	38 39.941	76 10.359	B	4.5 - 2.5	5:05	7284 - 7303	10818 - 10847	7
7	1:57	[illegible]	" "	" "	T	2.0 - 1.5	5:16	7305 - 7323	10850 - 10881	7

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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BT10-10-08 Water Sample Log 6/~~18~~/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume Filtered (ml)	Time (GMT)	Secchi Depth	B pH S	Station Notes
Bath	015	3.5	0.256	0.6535	20	12:18 pm	0.3		
—	014						0.35	8.1 8.3	
Surface	013	0.5	0.1462	0.6860	20	1:50	0.5	8.0 7.9	
Surface	012	0.5	0.4771	0.10256	20	2:25	0.5		
Bottom	011	7.5	0.1433	0.55331	20	2:44	0.5	8.0 ±2	Bottom temp 29.33
—	~~09~~ 10						0.5	8.0	29.00
Surface	09	0.5	0.1391	0.10379	20	4:12	0.6	8.0	29.30
	05						0.7		
Bottom	07	4.5	0.1157	0.29915	20	6:06	0.6		29.30

Station 9 surface has some contamination

TRANSPORT Consecutive Station Log: BT10-10-09

July 2nd, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
01	7:57	9.5	38 38.090	76 19.837	B	9.5-8.5	4:18	7341-7369	10898-10928	01
01	7:57	↓	" "	" "	P	8.0-5	4:42	7372-7401	10931-10962	01
01	↓	↓	" "	" "	T	4.5-0.5	4:31	7408-7434	10970-11000	01
02	8:45	7.0	38 38.999	76 16.472	B	7.5-4.5	4:15	7449-7481	11020-11051	02
02	8:45	↓	" "	" "	T	4.0-0.5	4:29	7483-7510	11054-11083	02
03	9:21	4.5	38 41.273	76 17.037	B	4.5-2.5	4:09	7523-7550	11097-11124	03
03	9:21	—	" "	" "	T	2.0-0.5	4:11	7553-7580	11128-11150	03
04	9:55	5.5	38 42.908	76 15.624	B	5.5-3.0	4:21	7585-7610	11164-11189	04
04	9:55	5.5	" "	" "	T	2.5-0.5	4:17	7613-7639	11192-11219	04
05	10:23	4.0	38 40.384	76 13.22	O	4.5-0.5	4:27	7657-7683	11242-11267	05
06	10:45	9.5	38 38.345	76 11.862	B	9.5-8.5	4:10	7690-7716	11278-11304	06
06	"	↓	" "	" "	P	8.0-5.0	4:20	7719-7746	11306-11431	06
06	"		" "	" "	T	4.5-0.5	4:06	7752-7776	11536-11357	06
07	11:16	4.5	38 39.930	76 10.930	B	4.5-2.5	4:20	7787-7813	11369-11392	07
07	"	"	" "	" "	T	2.0-0.5	4:19	7816-7840	11399-11413	07
08	11:46	9.5	38 37.773	76 08.042	B	9.5-4.5	4:31	7846-7874	11422-11447	08
08	↓	↓	" "	" "	T	4.0-0.5	4:40	7877-7902	11450-11472	08
09	12:27	4.5	38 35.852	76 07.069	O	4.5-0.5	4:29	7924-7950	11497-11517	09
~~10~~	~~1:00~~	~~12.0~~	~~38~~			~~12-6.0~~	~~5~~			~~10~~ 10
10	1:00		38 35.939	76 05.151	B	12-6.0	5:21	7966-7994	11531-11553	10
10	↓		" "	" "	T	5.5-0.5	5:41	7996-8021	11555-11575	10
11	1:30	7.5	38 34.841	76 03.544	B	7.5-4.0	4:30	8042-8072	11595-11615	11
11	↓	↓	" "	" "	T	3.5-0.5	4:44	8074-8103	11617-11633	11

2nd file for 10 15

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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TRANSPORT Consecutive Station Log: BT10-10-09

July 2nd, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
12	1:58	3.5	38 34.530	76 02.578	B	3.5-2.5	4:39	8111-8139	11642-11664	12
12	"	"	" "	" "	T	2.0-0.5	4:42	8142-8170	11665-11685	12
13	2:22	6.5	38 35.267	76 00.659	B	6.5-3.5	5:20	8174-8206	11692-11714	13
13	"	"	" "	" "	T	3.0-0.5	5:18	8208-8242	11715-11737	13
14	2:48	7.5	38 36.380	75 58.981	B	7.5-4.0	5:11	8253-8284	11748-11769	14
14	"	"	" "	" "	T	3.5-0.5	5:13	8288-8322	11772-11795	14
15	3:15	3.5	38 38.085	75 58.999	O	3.5-0.5	5:07	8328-8361	11801-11822	15
16	3:35	4.5	38 39.257	75 57.325	O	4.5-0.5	5:48	8369-8405	11829-11837	16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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BT10-10-09 Water Sample Log 7/2/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes	
None	01					12:07	1.5	8.2	7.9	23.8	
Both	02	7.0	0.0782	0.2793	20	12:52	1.2	8.2	7.8	23.5 Bot	B
None	03					1:33	1.1	8.3	8.3	25.9	- M.S
Both	04	0.5	0.11722	0.28815	20	2:07	1.7	8.3	8.3	26.35	S
None	05					2:27	1.0	8.3		25.8	
Both	06		0.2319	0.25071	20	2:48	1.2	8.2	7.8	25.6	Both
None	07					3:21	0.8	8.2	8.1	26.7	
Both	08	0.5	0.10989	0.5183	20	4:00	0.8	8.1		26.9	Surface
None	09					4:32	0.6	8.2	8.1	27.3	
Both	10	0.5	0.14428	0.8432	20	5:18	0.5	8.2			Surf
Both	11	7.5	0.2596	0.42002	20	5:47	0.4	8.2	8.0		

Go USA beat Slovenia

BT10-10-09 Water Sample Log 7/2/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
None	12					6:06	0.6	8.2	8.2	
Both	13	0.5	0.1807	0.7912	20	6:28	0.4	8.2	8.1	27.5
None	14						0.3	8.3	8.1	
Both	15	3.5	0.3112	0.93040	20	7:23			8.0	27.4
	16									

Go USA beat Slovenia

ORDER GF5's!

TRANSPORT Consecutive Station Log: BT10-10-10

July 6, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	~~BT02~~ CTD
Ø1	0755	9.9	38° 38.140	76° 19.639	B	5.0 - 9.5	4:11	8430 - 8455	11860 - 11911	st Ø1
Ø1	"	"	"	"	S	0.5 - 4.5	4:12	8459 - 8481	11916 - 11941	"
Ø2	0825	7.9	38° 39.048	76° 16.501	B	4.0 - 7.5	4:32	8495 - 8524	11959 - 11987	st Ø2
Ø2	"	"	"	"	S	0.5 - 3.5	4:25	8529 - 8554	11992 - 12017	st Ø2
Ø3	0850	5.3	38° 41.274	76° 16.978	B	2.5 - 4.8	3:58	8562 - 8588	12029 - 12050	st Ø3
Ø3	"	"	"	"	S	0.5 - 2.0	4:03	8590 - 8607	12052 - 12071	st Ø3
Ø4	0914	6.0	38° 42.925	76° 15.654	B	3.0 - 5.5	4:26	8615 - 8642	12082 - 12103	st Ø4
Ø4	"	"	"	"	S	0.5 - 2.5	4:19	8644 - 8668	12105 - 12125	st Ø4
Ø5	0940	4.8	38° 40.343	76° 13.175	O	0.5 - 4.5	4:45	8676 - 8704	12137 - 12159	st Ø5
Ø6	0959	10.0	38° 38.402	76° 11.837	B	6.5 - 9.5	4:05	8710 - 8735	12169 - 12192	st Ø6
Ø6	"	"	"	"	P	3.0 - 6.0	4:13	8737 - 8760	12194 - 12217	" Ø6
Ø6	"	"	"	"	S	0.5 - 2.5	4:16	8769 - 8788	12225 - 12247	st Ø6
Ø7	1023	5.4	38° 39.964	76° 10.866	B(P)	2.5 - 5.0	4:22	8792 - 8821	12260 - 12281	st Ø7
Ø7	"	"	"	"	S	0.5 - 2.0	4:30	8823 - 8846	12283 - 12306	"
Ø8	1047	11.2	38° 37.751	76° 07.885	B	7.5 - 10.5	4:26	8854 - 8879	12316 - 12339	st Ø8
Ø8	"	"	"	"	P	2.0 - 7.0	4:48	8881 - 8906	12341 - 12365	" Ø8
Ø8	"	"	"	"	S	0.5 - 1.5	4:57	8908 - 8933	12367 - 12391	" Ø8
Ø9	1114	4.9	38° 35.825	76° 06.960	O	0.5 - 4.5	5:08	8939 - 8962	12400 - 12425	st Ø9
10	1129	13.1	38° 35.956	76° 05.023	B	6.5 - 12.5	4:34	8973 - 8999	12436 - 12456	st 10
10	"	"	"	"	S	0.5 - 6.0	4:37	9003 - 9027	12459 - 12477	st 10
11	1152	8.4	38° 34.815	76° 03.455	B(P)	3.5 - 9.0	4:53	9034 - 9061	12486 - 12510	st 11
11	"	"	"	"	S	0.5 - 3.0	4:23	9063 - 9086	12512 - 12533	st 11

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

~~GO USA BEAT SLOVENIA!!!~~

TRANSPORT Consecutive Station Log: BT10-10-10

July 6, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
12	1218	4.5	38° 34.568	76° 02.518	B	2.5 - 4.0	4:42	9095 - 9121	12550 - 12573	St 12
12	"	"	"	"	S	0.5 - 2.0	4:37	9122 - 9146	12575 - 12598	St 12
13	1240	7.3	38° 35.280	76° 00.631	B	6.0 - 7.0	4:21	9156 - 9178	12609 - 12631	St 13
13	"	"	"	"	P	3.0 - 5.5	4:51	9181 - 9206	12633 - 12657	St 13
13	"	"	"	"	S	0.5 - 2.5	4:46	9214 - 9238	12663 - 12686	St 13
14	1308	10.0	38° 36.374	75° 59.006	B	5.0 - 9.5	5:22	9249 - 9279	12699 - 12725	St 14
14	"	"	"	"	S	0.5 - 4.5	5:34	9280 - 9309	12727 - 12754	St 14
15	1330	4.7	38° 38.108	75° 59.013	B	2.5 - 4.2	5:32	9323 - 9352	12771 - 12798	St 15
15	"	"	"	"	S	0.5 - 2.0	5:46	9353 - 9383	12800 - 12827	St 15
~~15~~	1401	—	— No	Good —	—	Salt 6.0	—	—	—	~~St 16~~
16	1414		38° 43.082	76° 00.217	O	0.5 - 4.5	5:41	9389 - 9419	12835 - 12862	St 16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

GO USA BEAT SLOVENIA!!!

BT10-10 Water Sample Log 7/6/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	Bot pH	Top pH	Station Notes
None	Ø1						1.7	8.2	7.9	
Bot	Ø2	7.5	0.101	0.330	20	12:31	1.5	8.2	8.5	
None	Ø3						1.2	8.2	8.5	~~[illegible]~~ (1)
Surf.	Ø4	0.5	0.073	0.118	20	13:30	1.0	8.2	8.4	- sample taken @ end of cast - no MARK
None	Ø5						1.1	7.9		
None	Ø6						1.0	7.9	8.4	
Bot.	Ø7	5.0	0.162	0.592	20	14:29	1.1	7.9	8.3	
Surf.	Ø8	0.5	0.074	0.616	20	15:07	1.0	7.8	8.5	
None	Ø9						0.9		8.4	
None	10						1.0		8.3	
Bot.	11	8.0	0.195	0.260	20	1559	0.6	7.8	8.4	
None	12						0.8	8.0	4.2	
Surf.	13	0.5	0.114	0.137	20	1701	0.5		8.2	
None	14						0.4	7.9	8.2	
Bot	15	4.2	0.206	0.399	20	1735	0.3	7.8	8.3	27°C - bottom temp

Go USA beat Slovenia

(1) mixed some top water w/ bottom sample into on accident

TRANSPORT Consecutive Station Log: BT10-11

July 9, 2010, RV Terrapin

bt1011-

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
Ø1	0745	9.7	38° 38.130	76° 19.723	B	4.5 - 9.2	4:52	9514 - 9542	13012 - 13041	stØ1
Ø1	"	"	"	"	S	0.5 - 4.0	6:06	9543 - 9564	13044 - 13074	stØ1
Ø2	0811	8.0	38° 39.019	76° 16.511	B	4.0 - 7.5	5:20	9569 - 9596	13083 - 13116	stØ2
Ø2	"	"	"	"	S	0.5 - 3.5	4:46	9598 - 9621	13118 - 13148	stØ2
Ø3	0838	5.1	38° 41.292	76° 16.900	B	3.0 - 4.7	5:29	9630 - 9657	13166 - 13192	stØ3
Ø3	"	"	"	"	S	0.5 - 2.5	6:04	9658 - 9683	13194 - 13224	stØ3
Ø4	0904	6.0	38° 42.913	76° 15.639	B	3.0 - 5.5	6:24	9688 - 9721	13233 - 13262	stØ4
Ø4	"	"	"	"	S	0.5 - 2.5	6:38	9728 - 9754	13263 - 13288	stØ4
Ø5	0938	4.9	38° 40.325	76° 13.166	O	0.5 - 4.5	6:31	9787 - 9821	13316 - 13345	stØ5
Ø6	0959	10.0	38° 38.404	76° 11.789	B	5.0 - 9.5	5:37	9826 - 9856	13352 - 13377	stØ6
Ø6	"	"	"	"	S	0.5 - 4.5	6:04	9857 - 9888	13378 - 13403	stØ6
Ø7	1025	5.3	38° 39.977	76° 10.856	B	3.0 - 5.0	6:11	9894 - 9926	13413 - 13440	stØ7
Ø7	"	"	"	"	S	0.5 - 2.5	6:27	9928 - 9960	13442 - 13467	stØ7
Ø8	1054	10.9	38° 37.806	76° 08.011	B	9.5 - 5.0		9966 - 9992	13475 - 13496	stØ8
Ø8	1101	10.0	38° 37.819	76 08.011	S	needed extra H2O	6:03	9996 - 10000	13500 - 13504	stØ8
Ø8	"	"	"	"	S	4.5 - 0.5	6:24	10003 - 10037	13507 - 13532	stØ8
Ø9	1122	5.9	38° 35.891	76° 07.102	O	0.5 - 5.5	6:05	10037 - 10065	13539 - 13562	stØ9
10	1144	12.6	38° 35.928	76° 04.928	B	6.5 - 12.0	6:56	10069 - 10101	13570 - 13591	st10
10	"	"	"	"	S	0.5 - 6.0	8:32	10105 - 10139	13593 - 13611	st10
11	1223	8.0	38° 34.854	76° 03.509	B	4.0 - 7.5	7:02	10149 - 10185	13620 - 13640	st11
11	"	"	"	"	S	0.5 - 3.5	11:09	10186 - 10230	13641 - stopped flow	st11
12	1301	4.7	38° 34.584	76° 02.510	B	2.5 - 4.2	6:49	6 - 31	- 10273	st12
12	"	"	"	"	S	0.5 - 2.0	6:20	38.7 - 64	1.8 - 28	st12

4.29

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

VAYA ESPANA!!!!!

TRANSPORT Consecutive Station Log: BT10-11 July 9, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	1334	7.1	38°35.329	76°00.660	B	3.5 - 6.5	6:22	74 - 100	34 - 62	st13
13	"	"	"	"	S	0.5 - 3.0	7:58	101 - 120	64 - 97	st13
14	1403	8.0	38°36.444	75°58.970	B	4.0 - 7.5	7:26	127 - 157	102 - 135	st14
14	"	"	"	"	S	0.5 - 3.5	6:56	158 - 185	137 - 166	st14
15	1427	4.2	38°38.085	75°58.956	O	0.5 - 3.5	6:47	194 - 222	172 - 204	st15
16	1455	6.7	38°43.247	76°00.498	O	0.5 - 6.8	7:11	233 - 264	211 - 246	st16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline VAYA ESPANA!!!!!

BT10-11 Water Sample Log 7/8/2010

No pH meter

	Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	bott. temp. Station Notes
	None	Ø1						1.4			~25.8°C
2	Surf.	Ø2	0.5	0.067	0.293	20	12:27	1.6			~25.8
4	None	Ø3						1.2			
	Bot.	Ø4						1.3			28.5°C
6	Bot.	Ø4	5.5	0.221	0.501	20	13:27				stØ4b
8	None	Ø5						1.1			27.7°C
	Surf.	Ø6	0.5	0.090	0.601	20	14:17	1.1			
10	None	Ø7						1.1			26.5°C
11	Bott	Ø8	9.5	0.09158	0.24298	20	3:00	1.0			26.75
	None	Ø9						1.0			
13	Surf.	1Ø	0.5	0.101	0.643	20	16:08	0.9			~27°C
16	Bot.	11	7.5	0.538	0.340	20	16:33	0.8			~28°C
	None	12						0.8			
	Surf.	13	0.5	0.123	0.802	20	17:54	0.7			~28°C
	None	14						0.6			
	None	15						0.5			28.8°C
	Bot.	16	6.5	0.428	0.829	20	19:01	0.5			~29.5°C

Vaya Espana!!!!

TRANSPORT Consecutive Station Log: BT10-12

July 12, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
Ø1	0755	10.0	38°38.063	76°19.747	B	8.5 - 9.5	06:31	270 - 299	297 - 337	stØ1
Ø1	"	"	"	"	P	4.5 - 8.0	06:03	300 - 326	339 - 374	stØ1
Ø1	"	"	"	"	S	0.5 - 4.0	5:35	328 - 351	376 - 407	stØ1
Ø2	0841	8.0	38°39.042	76°16.449	B	4.0 - 7.5	6:23	356 - 386	418 - 439	stØ2
Ø2	"	"	"	"	S	0.5 - 3.5	5:55	398 - 423	443 - 480	stØ2
Ø3	0921	5.5	38°41.237	76°16.941	B	3.0 - 5.0	5:17	427 - 451	490 - 522	stØ3
Ø3	"	"	"	"	S	0.5 - 2.5	6:16	452 - 478	524 - 559	stØ3
Ø4	0954	6.1	38°42.874	76°15.638	B	3.0 - 5.5	5:42	487 - 511	576 - 608	stØ4
Ø4	"	"	"	"	S	0.5 - 2.5	6:09	513 - 538	611 - 644	stØ4
Ø5	1030	4.6	38°40.329	76°13.130	O	0.5 - 4.0	5:48	543 - 568	654 - 684	stØ5
Ø6	1049	9.6	38°38.340	76°11.819	B	5.0 - 9.0	6:25	572 - 599	694 - 726	stØ6
Ø6	"	"	"	"	S	0.5 - 4.5	6:22	601 - 626	728 - 757	stØ6
Ø7	1117	5.1	38°39.922	76°10.895	B	2.5 - 4.5	6:11	632 - 659	768 - 797	stØ7
Ø7	"	"	"	"	S	0.5 - 2.0	6:01	661 - 686	799 - 825	stØ7
Ø8	1150	10.3	38°37.785	76°07.997	B	5.5 - 10.0	5:29	693 - 723	835 - 863	stØ8
Ø8	"	"	"	"	S	0.5 - 5.0	5:53	725 - 753	864 - 891	stØ8
Ø9	1218	5.0	38°35.874	76°07.001	O	0.5 - 4.5	5:28	761 - 790	903 - 927	stØ9
10	1239	12.9	38°35.974	76°05.042	B	6.5 - 12.3	6:32	800 - 833	938 - 965	st10
10	"	"	"	"	S	0.5 - 6.0	6:55	834 - 864	967 - 994	st10
11	1311	8.1	38°34.826	76°03.444	B	4.0 - 7.5	6:25	868 - 903	1000 - 1028	st11
11	"	"	"	"	S	0.5 - 3.5	6:37	906 - 938	1030 - 1055	st11
12	1339	4.5	38°34.573	76°02.479	B	2.5 - 4.0	6:12	945 - 976	1063 - 1086	st12
12	"	"	"	"	S	0.5 - 2.0	6:32	978 - 1009	1088 - 1111	st12

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-12 July 12, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	14:06	8.1	38° 35.336	76° 00.605	B	4.0 - 7.5	7:03	1021 - 1054	1122 - 1150	st13
13	"	"	"	"	S	0.5 - 3.5	6:31	1055 - 1084	1151 - 1175	st13
14	14:36	10.4	38° 36.330	75° 59.006	B	5.5 - 10.0	7:57	1091 - 1127	1183 - 1208	st14
14	"	"	"	"	S	0.5 - 5.0	8:31	1129 - 1167	1209 - 1230	st14
15	1507	4.0	38° 38.052	75° 59.021	O	0.5 - 4.0	8:16	1176 - 1208	1237 - 1257	st15
16	1543	4.5	38° 43.291	076 00.471	O	0.5 - 4.5	9:38	1214 - 1254	1261 - 1277	st16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-12 Water Sample Log 7/12/2010

	Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
2	None	Ø1						1.8			~26°C
4	Surf.	Ø2	0.5	0.057	0.525	20	13:04	1.3			~26.6°C
6	None	Ø3						1.2			~28°C
8	Bot.	Ø4	5.5	0.301	0.378	20	13:58	1.1			
10	None	Ø5						1.2			~27.5°C
11	Surf.	Ø6	0.5	0.081	0.437	20	15:09	1.35			~27°C
13	None	07						1.0			27.5°C
16	Bot.	Ø8	10.0	0.113	0.337	20	15:55	0.9			27.4
	None	Ø9						0.8			27.5
	Surf	10	0.5	0.132	0.565	20	16:59	0.8			~27.5
	Bot.	11	7.5	0.217	0.382	20	17:16	0.7			~27.8
	None	12						0.6			
	Surf.	13	0.5	0.424	1.01	20	18:29	0.4			~28°C
	None	14						0.3			~28°C
	None	15						0.3			
	Bot.	16	4.0	0.383	0.981	20	19:47	0.3			28.8°C

2 11

TRANSPORT Consecutive Station Log: BT10-13

July 15, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
01	11 55	10	38 38 113	076 19.617	B	[illegible]	[illegible]	0 - 26	0 - 27	01
					S	5.0 - 9.5	[illegible]	[illegible] - 59	[illegible] - 57	01
[illegible]		8	38 38.950	076 16.558	L	[illegible]	[illegible]	[illegible] - 89	[illegible] - 93	[illegible]
[illegible]		[illegible]			[illegible]	[illegible]	5:03	91 - 116	97 - 124	[illegible]
03	8:51		38 41.358	076						03
03	1129	[illegible]	38° 41.277	076 16.[illegible]	B	3.0 - 4.5	5:22	126 - 154	133 - 161	St 03
03	"	"	"	"	S(P)	0.5 - 2.5	5:06	157 - 175	166 - 198	St 03
04	1156	5.7	38° 42.882	76° 15.679	B	3.0 - 5.0	5:56	186 - 201	210 - 247	St 04
04	"		"	"	T	0.5 - 2.5	6:17	203 - 215	250 - 289	St 04
06	1229	9.6	38° 38.409	76° 11.828	B	5.0 - 9.0	5:43	224 - 250	298 - 336	St 06
06	"	"	"	"	T	0.5 - 4.5	5:38	252 - 277	339 - 373	St 06
08	1256	10.5	38° 37.763	76° 02.904	B	5.5 - 10.0	6:00	283 - 297	381 - 420	St 08
08	"	"	"	"	T	0.5 - 5.0	6:09	298 - 314	422 - 461	St 08
07	1324	4.9	38° [illegible]	76° 12.826	B	2.0 - 4.5	5:45	319 - 339	462 - 502	St 07
07	"	"	"	"	T	0.5 - 2.0	6:50	340 - 359	504 - 541	St 07
10	1402	12.6	38° 35.950	76° 05.087	B	5.5 - 12.0	5:34	365 - 390	[illegible] - 576	St 10
10	"	"	"	"	T	0.5 - 6.0	6:37	392 - 418	578 - 612	St 10
11	1431	7.7	38° 34.[illegible]	76° 03.424	B	4.0 - 7.5	7:06	426 - 442	[illegible] - 601	St 11
"	"	"	"	"	T	0.5 - 3.5	6:53	443 - 458	667 - [illegible]	St 11
12	1500	4.0	38° [illegible] 536	[illegible]	B	[illegible] - 3.5	6:42	462 - 424	[illegible] - 744	St 12
12	"	"	"	"	T	0.5 - 3.0	7:58	47[illegible] - 489	752 - 793	St 12
13	1524	7.0	38° [illegible]	[illegible]	B	3.5 - [illegible]	5:59	497 - 521	80[illegible] - 827	St 13
13	"	"	"	"	T	0.5 - 3.0	7:12	524 - 550	830 - 860	St 13

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-13

July 15, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
14	15:53	7.5	38°36.387	75°58.960	B	4.0 - 7.5	6:11	556 - 581	863 - 890	S+14
14	"	"	"	"	T	0.5 - 3.5	6:56	582 - 602	891 - 920	S+14
15	16:18	4.0	38°38.117	75°58.985	O	0.5 - 3.5	7:59	620 - 640	926 - 960	S+15
16	16:43	5.9	38°40.350	75°56.884	O	0.5 - 5.3	8:17	644 - 663	964 - 1000	S+16
19	17:22	4.3	38°35.770	76°06.847	O	0.5 - 3.8	12:51		1018 - 1068	S+19

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-13 Water Sample Log 7/15/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Bot. temp. Station Notes
NONE	01						1.7		7.9	26.5
Both	02	5.0	0.1135	0.461	20	12:33	1.6		[illegible]	[illegible]
	03	5.5					1.4			
None	Ø3b						1.0	8.3		
Surf.	Ø4	0.5	0.113	0.117	20	16:14	1.1		8.2	
Bot.	Ø6	9.0	0.128	0.247	20	16:34	1.1			26.8
Bot.	Ø8	10.0	0.171	0.399	20	17:04	1.0	8.2	8.1	27.1
None	Ø7						1.0	8.2	8.1	27.2
Top	10	0.5	0.123	0.641	20	18:27	1.1		8.0	27.3
B.1	11	7.5	0.210	0.429	20	18:42	0.8	8.1	8.0	27.4
None	12						0.4	8.4	8.0	27.5
None	13						0.2			27.6
Surf.	14	0.5	0.227	0.588	20	20:12	0.2			
None	15							7.9	7.9	29.2
Surf.	16	0.5	0.239	0.115	20	20:57	0.2	7.8		28.4
	9						0.5	8.3		27.3

get new tape on secchi

-1[illegible] dock @ 0725

TRANSPORT Consecutive Station Log: BT10-14

July 20, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	~~BT02~~ CTD
Ø1	0752	9.6	38° 38.135	76° 19.704	S	5.0 - 9.0	5:28	4 - 34	3 - 28	st Ø1
Ø1	"	"	"	"	T	0.5 - 4.5	6:54	41 - 73	34 - 64	st Ø1
Ø2	0820	7.5	38° 39.017	76° 16.419	B	4.0 - 7.0	6:28	78 - 103	2 - 36	st Ø2
Ø2	"	"	"	"	T	0.5 - 3.5	6:43	104 - 128	31 - 60	st Ø2
Ø3	0853	5.[illegible]	38° 41.302	76° 16.935	B	3.0 - 4.7	6:15	135 - 159	64 - 92	st Ø3
Ø3	"	"	"	"	T	0.5 - 2.5	6:50	160 - 185	92 - 121	st Ø3
Ø4	0922	6.0	38° 42.894	76° 15.599	B	3.0 - 5.5	6:35	197 - 222	128 - 154	st Ø4
Ø4	"	"	"	"	T	0.5 - 2.5	8:29	223 - 248	155 - 185	st Ø4
Ø5	1001	3.5	38° 40.367	76° 13.136	O	0.5 - 3.0	9:05	254 - 278	191 - 224	st Ø5
Ø6	[illegible]35	9.7	38° 38.360	76° 11.779	B	5.0 - 9.0	6:20	302 - 344	235 - 260	st Ø6
Ø6	"	"	"	"	T	0.5 - 4.5	5:42	345 - 380	261 - 283	st Ø6
Ø7	[illegible]00	5.4	38° 39.949	76° 10.854	B	3.0 - 5.0	5:46	391 - 424	288 - 313	st Ø7
Ø7	"	"	"	"	T	0.5 - 2.5	6:14	426 - 453	314 - 340	st Ø7
Ø8	1126	11.1	38° 37.793	76° 07.947	B	5.5 - 10.5	6:13	465 - 500	348 - 376	st Ø8
Ø8	"	"	"	"	T	0.5 - 5.0	6:35	501 - 533	377 - 404	st Ø8
Ø9	1155	4.9	38° 35.250	76° 06.940	O	0.5 - 4.5	6:06	545 - 577	410 - 434	st Ø9
10	1211	12.8	38° 35.965	76° 04.969	B	6.0 - 12.0	6:58	589 - 618	442 - 472	st 10
10	"	"	"	"	T	0.5 - 5.5	7:12	620 - 650	474 - 501	st 10
11	1238	11.0	38° [illegible].960	76° 03.528	B	4.5 - 10.0	7:43	667 - 698	508 - 541	st 11
11	"	11.0	"	"	T	0.5 - 4.0	~7:00	700 - 733	543 - 565	st 11
12	1306	4.3	38° 34.533	76° 02.527	B	2.5 - 4.0	7:10	745 - 777	572 - 605	st 12
12	"	"	"	"	T	0.5 - 2.0	6:40	778 - 804	607 - 636	st 12

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-14

July 20, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	1333	8.0	38° 35.324	76° 00.580	B	4.0 - 7.5	5:20	815 - 844	641 - 665	st 13
13	"	"	"	"	T	0.5 - 3.5	6:19	845 - 875	667 - 696	st 13
14	1357	10.0	38° 36.379	75° 59.004	B	5.0 - 9.5	6:22	887 - 914	702 - 730	st 14
14	"	"	"	"	T	0.5 - 4.5	6:33	916 - 943	732 - 761	st 14
15	1421	4.0	38° 38.071	75° 59.033	O	0.5 - 3.5	7:00	952 - 982	766 - 791	st 15
16	1451	4.0	38° 42.118	75° 59.551	O	0.5 - 3.2	6:45	997 - 1025	799 - 829	st 16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-14 Water Sample Log 7/20/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
None	Ø1						1.5			~28.2°C
Bot.	Ø2	7.0	0.105	0.357	20	12:26	1.2			~28.4°C
None	Ø3						1.3			~28.6°C
	Ø4	0.5	0.101	0.315	20	13:53	1.1			~29°C
None	Ø5						1.1			
Bot.	Ø6	9.0	0.157	0.239	20	14:45	1.1			~28.3°
None	Ø7						0.8			28.7°
Surf.	Ø8	0.5	0.112	0.427	20	15:46	0.9			
None	Ø9						0.8			
Bot.	10	12.1	0.245	0.326	20	16:18	0.8			28.9°
Bot.	11	10.0	[illegible]	[illegible]	20	16:47	0.7			28.7°
None	12						0.6			
Surf.	13	0.5	0.139	0.103	20	17:53	0.5			
None	14						0.4			~29.2°C
None	15						0.4			
End	16	3.5	0.394	0.954	20	18:58	0.25			29.8°C

TRANSPORT Consecutive Station Log: BT10-15

July 23, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	~~BT02~~ CTD
Ø1	0821	9.6	38° 38.191	76° 19.680	B	4.5 - 8.7	05:09	1 - 25	Ø - 30	st Ø1
Ø1	"	"	"	"	T	0.5 - 4.0	05:24	27 - 56	33 - 59	st Ø1
Ø2	0859	7.8	38° 39.027	76° 16.479	B	4.0 - 7.5	6:12	66 - 97	67 - 107	st Ø2
Ø2	"	"	"	"	T	0.5 - 3.5	5:25	100 - 127	110 - 143	st Ø2
Ø3	0923	5.2	38° 41.286	76° 16.973	B	2.5 - 4.5	5:35	135 - 163	149 - 184	st Ø3
Ø3	"	"	"	"	T	0.5 - 2.0	6:06	164 - 194	186 - 220	st Ø3
Ø4	0950	5.6	38° 42.949	76° 15.758	B	3.0 - 5.0	5:47	201 - 230	226 - 261	st Ø4
Ø4	"	"	"	"	T	0.5 - 2.5	5:10	232 - 258	264 - 291	st Ø4
Ø5	1019	5.2	38° 40.251	76° 13.185	O	0.5 - 4.5	5:08	269 - 294	300 - 330	st Ø5
Ø6	1037	9.8	38° 38.428	76° 11.817	B	5.0 - 9.5	5:17	305 - 331	339 - 371	st Ø6
Ø6	"	"	"	"	T	0.5 - 4.5	5:08	333 - 358	373 - 400	st Ø6
Ø7	1058	5.1	38° 39.941	76° 10.863	B	2.5 - 4.5	5:03	365 - 390	405 - 435	st Ø7
Ø7	"	"	"	"	T	0.5 - 2.0	5:45	392 - 420	437 - 468	st Ø7
Ø8	1124	10.9	38° 37.816	76° 07.999	B	5.5 - 10.5	5:48	432 - 461	474 - 505	st Ø8
Ø8	"	"	"	"	T	0.5 - 5.0	5:43	462 - 491	506 - 535	st Ø8
Ø9	1151	4.5	38° 35.848	76° 06.902	O	0.5 - 4.0	5:04	500 - 526	540 - 569	st Ø9
10	1207	12.3	38° 35.990	76° 05.028	B	6.0 - 11.5	6:47	534 - 568	576 - 618	st 10
10	"	"	"	"	T	0.5 - 5.5	5:43	570 - 598	619 - 648	st 10
11	1240	9.4	38° 34.808	76° 03.478	B	4.5 - 8.0	5:27	609 - 635	656 - 688	st 11
11	"	"	"	"	T	0.5 - 4.0	6:07	638 - 668	691 - 723	st 11
12	1305	4.5	38° 34.541	76° 02.461	B	2.5 - 4.0	5:40	675 - 703	728 - 760	st 12
12	"	"	"	"	T	0.5 - 2.0	5:44	704 - 732	761 - 790	st 12

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-15

July 23, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	1328	8.5	38° 35.308	76° 00.593	B	4.5 - 8.0	5:10	743 - 768	800 - 830	St 13
13	"	"	"	"	T	0.5 - 4.0	5:21	771 - 797	833 - 860	St 13
16	1408	3.8	38° 41.242	75° 58.388	O	0.5 - 3.3	6:34	810 - 840	872 - 906	St 16
15	1435	4.0	38° 38.075	75° 58.953	O	0.5 - 3.5	—	~~856 - No~~	~~9[illegible]00D~~	St 15
15	1444	4.2	"	"	O	0.5 - 3.5	4:41	887 - 909	954 - 977	St 15 b
14	1459	11.0	38° 36.147	75° 59.043	B	6.0 - 11.0	5:42	915 - 943	981 - 1013	St 14
14	"	"	"	"	T	0.5 - 5.5	5:46	944 - 972	1014 - 1038	St 14

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-15 Water Sample Log 7/23/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	bot. temp Station Notes
None	Ø1						1.5			28.8°C
BOT	Ø2	6.5	0.074	0.410	20	13:07	1.5			
None	Ø3						1.1			28.8°C
Top	Ø4	0.5	0.068	0.354	20	14:08	1.2			~29°C
None	Ø5						0.6			~29°C
Bot.	Ø6	9.5	0.139	0.304	20	14:43	1.3			28.5°C
None	Ø7						1.1			~29.2°C
Top	Ø8	0.5	0.089	0.675	20	15:43	0.8			29.1°C
None	Ø9						0.6			
None	10	11.0	0.218	0.272	20	16:15	0.9			
Bot.	11	8.0	0.293	0.268	20	16:45	0.6			29.3°C
None	12						0.7			
Surf.	13	0.5	0.116	0.893	20	17:46	0.6			← no mark on CTD - just took last reading
Bot.	16	3.5	0.704	0.724	20	18:14	0.2			
None	15						0.15			29.8°C
None	14									29.7°C

BT10-16 Water Sample Log 7/27/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
None	Ø1						1.2			bot. temp 27.2
Bot	Ø2	7.5	0.087	0.421	20	12:22	1.2			28.6
None	Ø3						1.1			29.5
Surf.	Ø4	0.5	0.089	0.091	20	13:26	1.0			30.1
None	Ø5						0.7			29.6
Bot.	Ø6	8.5	0.092	0.359	20	14:00	1.0			
None	Ø7						0.7			29.7
Surf.	Ø8	0.5	0.101	0.092	20	15:08	0.6			29.8
None	Ø9						0.7			29.8
Bot.	10	12.0	0.175	0.362	20	15:44	0.65			
Bot.	11	7.0	0.179	0.420	20	16:04	0.3			
None	12						0.3			30.1
Surf.	13	0.5	0.190	0.092	20	17:12	0.3			29.9
None	14						0.2			
None	15									
Bot.	16	3.0	0.228	0.963	20	18:06				

TRANSPORT Consecutive Station Log: BT10-16

July 27, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
Ø1	0738	9.8	38° 38.151	76° 19.712	B	6.0 - 9.5	5:18	1 - 36	Ø - 27	St Ø1
Ø1	"	"	"	"	P	3.0 - 5.5	5:51	38 - 72	29 - 59	st Ø1
Ø1	"	"	"	"	T	0.5 - 2.5	5:21	78 - 113	60 - 88	st Ø1
Ø2	0815	7.9	38° 39.028	76° 16.452	B	3.5 - 7.5	5:48	124 - 162	93 - 12[illegible]	St Ø2
Ø2	"	"	"	"	T	0.5 - 3.0	5:38	164 - 198	124 - 152	st Ø2
Ø3	0829	5.3	38° 41.260	76° 17.024	B	3.0 - 5.0	5:07	211 - 240	159 - 184	st Ø3
Ø3	0839	"	"	"	T	0.5 - 2.5	5:22	241 - 266	186 - 212	St Ø3
Ø4	0908	5.9	38° 42.912	76° 15.629	B	3.0 - 5.5	6:21	273 - 298	212 - 250	St Ø4
Ø4	"	"	"	"	T	0.5 - 2.5	6:22	300 - 323	252 - 284	st Ø4
Ø5	0935	4.6	38° 40.345	76° 13.125	O	0.5 - 4.0	5:52	334 - 358	292 - 321	st Ø5
Ø6	0952	9.7	38° 38.398	76° 11.824	B	5.0 - 9.0	5:13	368 - 392	326 - [illegible]	St Ø6
Ø6	"	"	"	"	T	0.5 - 4.5	5:44	39[illegible] - 418	354 - 382	st Ø6
Ø7	1014	5.1	38° 39.962	76° 10.279	B	2.5 - 4.5	5:32	426 - 450	387 - 415	St Ø7
Ø7	"	"	"	"	T	0.5 - 2.0	5:59	452 - 478	417 - 446	St Ø7
Ø8	1050	10.4	38° 37.790	76° 07.999	B	5.0 - 10.0	5:53	485 - 513	451 - 481	st Ø8
Ø8	"	"	"	"	T	0.5 - 4.5	5:33	514 - 538	482 - 509	St Ø8
Ø9	1117	4.6	38° 35.844	76° 06.974	O	0.5 - 4.0	5:46	546 - 571	515 - 543	St Ø9
1Ø	1137	12.6	38° 35.952	76° 05.060	B	6.5 - 12.0	5:58	579 - 616	548 - 5[illegible]	St 10
1Ø	"	"	"	"	T	0.5 - 6.0	6:20	617 - 653	578 - 610	st 10
11	1200	7.8	38° 34.838	76° 03.522	B	4.0 - 7.0	5:06	663 - 691	616 - 640	st 11
11	"	"	"	"	T	0.5 - 3.5	6:01	693 - 722	643 - 671	st 11
12	1219	4.1	38° 34.557	76° 02.435	O	2.0 - 3.5	MESSED	[illegible]	UP	st 12
12	"	"	"	"		0.5 - 1.5				

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-16

July 27, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
12b	~1230	4.0	38°34.657	76°02.525	B	2.0 - 3.5	5:57	775 - 801	720 - 749	St12b
12b	"	"	"	"	T	0.5 - 1.5	5:52	803 - 828	751 - 779	St12b
13	1252	7.8	38° 35.389	76° 00.505	B	4.0 - 7.0	6:02	840 - 868	786 - 815	St13
13	"	"	"	"	T	0.5 - 3.5	6:31	869 - 900	817 - 848	St13
14	1316	7.6	38°36.432	75°58.945	B	4.0 - 7.0	5:46	909 - 938	854 - 882	St14
14	"	"	"	"	T	0.5 - 3.5	5:51	939 - 962	884 - 912	St14
15	1338	3.6	38° 38.042	75° 59.000	O	0.5 - 3.0	5:33	975 - 1000	917 - 943	St15
16	1401	3.5	38° 40.900	75° 57.751	O	0.5 - 3.0	6:01	1009 - 1038	950 - 978	St16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-17 (Skipped one) too Rough SSW

July 29, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
02	7:51	5.0	38 39.019	076 12.553	B	[illegible]	4:33	3 - [illegible]	[illegible]	[illegible]
02	"	"	"		S	[illegible]	5:02	31 - 52	35 - 61	[illegible]
03	8:17	5.0	38 41.271	076 17.027	B	5.0 - 3.0	5:42	62 - 100	65 - 121	03
03	"	"	" "	" "	S	2.5 - 0.5	4:50	102 - 121	96 - 120	03
04	[illegible]	[illegible]	38 42.841	076 15.591	B	5.5 - 3.0	[illegible]	130 - 143	126 - 149	[illegible]
04		"	" "	" "	S	2.5 - 0.5	5:12	[illegible] - [illegible]	[illegible] - [illegible]	[illegible]
05	9:18	5.0	38 40.296	076 13.453	O	5.0 - 0.5	6:27	172 - 200	[illegible] - [illegible]	[illegible]
06	9:36	9.0	38 38.331	076 11.826	B	[illegible] - 5.0	4:41	227 - 237	[illegible] - 244	[illegible]
06	" "	"	" "	" "	S	[illegible] - [illegible]	4:39	239 - 262	246 - [illegible]	[illegible]
07	9:57	5.0	38 39.925	076 10.870	B	5.0 - 3.0	4:35	268 - 295	272 - [illegible]	07
07	"	"	" "	" "	S	2.5 - [illegible]	4:33	297 - 320	297 - 320	07
08	[illegible]	10.0	38 37.807	076 07.946	B	10 - 5.5	[illegible]	326 - [illegible]	329 - [illegible]	[illegible]
08		"	" "	"	S	[illegible]	5:19	342 - 364	349 - 374	[illegible]
09	[illegible]	4.5	38 35.817	076 06.962	O	4.5 - 0.5	4:58	370 - 492	378 - 402	09
10	11:02	11	38 35.920	076 05.149	B	11 - 6.0	[illegible]	400 - 424	406 - 421	10
10	" "	" "	" "	" "	S	5.5 - 0.5	4:58	426 - 445	431 - 456	10
11	11:21	8	38 34.840	076 03.509	B	7.0 - [illegible]	4:44	452 - 473	461 - 485	11
11	" "	" "	" "	" "	S	[illegible]	4:59	475 - 496	487 - 510	11
12	11:39	4.0	38 34.555	076 02.557	B	4.0 - 2.5	4:58	502 - 523	514 - 537	12
12	" "	" "	" "	" "	S	2.5 - 0.5	4:54	525 - 560	540 - 567	12
13	12:05	6.0	38 35.275	076 00.680	B	6.5 - 3.5	5:10	556 - 582	572 - [illegible]	13
13	" "	" "	" "	" "	S	[illegible]	5:13	583 - 606	603 - 630	13

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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TRANSPORT Consecutive Station Log: BT10-[redacted] 17

July 29, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
~~14~~	~~12:25~~	~~9.5~~	~~38 36.312~~	~~75 58.966~~	~~S~~	~~1.5-5.0~~		~~608~~	~~635~~	~~14~~
~~14~~	~~"~~	~~"~~	~~"~~	~~"~~	~~S~~	~~4.5-0.5~~				~~14~~
14	12:45	11	38 36.152	75 59.081	B	11-6.0	4:54	637-662	stopped at 4 g/m	14b
14	"	"	"	"	S	5.5-0.5	5:27	665-685	↓	~~14b~~
15	1:05	3	38 38.050	75 58.973	O	3.0-0.5	5:08	700-731	↓	15
16	1:30	5	38 41.852	75 58.553	O	5.0-0.5	4:50	739-762	↓	16

Cline Sp[illegible] HL Bottle

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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BT10-17 Water Sample Log 7/29/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
Bottom	02	1.0	0.0857	0.5333	20	12:01	1.0			28.9 Windy
None	03					12:20	1.0			
Surface	04	0.5	0.1099	0.3095	20	1:05	0.7			29.1
None	05									
Bottom	06	9.0	0.8475	0.3029	20	1:40	1.2			29.2
None	07						0.7			29.5
Surface	08	0.5	0.12088	0.50917	20	2:27	0.7			29.1
None	09					2:47	0.8			29.5
Bottom	10	0.5	0.19049	0.31990	20	3:02	0.7			29.6
Bottom	11	7.0	0.21008	0.51624	20	3:26	0.7			29.1
None	12						0.6			29.5
Surface	13	0.5	0.14778	0.64300	20	4:04	0.5			29.5
None	14						0.4			29.6
None	15						0.5			29.7 lots of current
Bottom	16	5.0	0.57875	0.89133	20	5:35	0.3			

TRANSPORT Consecutive Station Log: BT10-18

August 2, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-18

August 2, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

page

BT10-18 Water Sample Log 8/2/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes

BT10-18 Water Sample Log 8/2/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes

TRANSPORT Consecutive Station Log: BT10-19 August ~~12~~ 19, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
Ø1	0805	10.0	38° 38.087	76° 19.643	B	4.5 - 9.0	9:34	59 - 105	783 - 813	stØ1
Ø1	"	"	"	"	T	0.5 - 4.0	9:36	107 - 145	815 - 867	stØ1
Ø2	0844	8.0	38° 38.978	76° 16.546	B	4.0 - 7.5	6:58	172 - 214	895 - 939	stØ2
Ø2	"	"	"	"	T	0.5 - 3.5	7:21	215 - 248	940 - 969	stØ2
Ø3	0921	5.1	38° 41.513	76° 16.956	B	2.5 - 4.5	7:58	260 - 298	975 - 1004	stØ3
Ø3	"	"	"	"	T	0.5 - 2.0	7:51	300 - 335	1005 - 1032	stØ3
Ø4	0953	6.0	38° 42.814	76° 15.716	B	3.0 - 5.5	8:27	356 - 397	1047 - 1089	stØ4
Ø4	"	"	"	"	T	0.5 - 2.5	8:35	400 - 437	1091 - 1127	stØ4
Ø5	1028	5.2	38° 40.225	76° 13.016	O	0.5 - 4.5	7:04	454 - 488	1137 - 1174	stØ5
Ø6	1047	8.5	38° 38.248	76° 11.478	B	4.5 - 8.0	6:44	502 - 533	1186 - 1221	stØ6
Ø6	"	"	"	"	T	0.5 - 4.0	6:43	536 - 559	1224 - 1255	stØ6
Ø7	1115	5.0	38° 39.897	76° 10.661	B	2.5 - 4.5	6:07	567 - 596	17540 - 17570	stØ7
Ø7	"	"	"	"	T	0.5 - 2.0	5:56	600 - 628	1298 - 1323	stØ7
Ø8	1145	10.5	38° 37.748	76° 07.951	B	5.5 - 10.0	5:35	652 - 677	3 - 32	stØ8
Ø8	"	"	"	"	T	0.5 - 5.0	6:34	679 - 706	33 - 65	stØ8
Ø9	1216	4.5	38° 35.762	76° 06.923	O	0.5 - 4.0	5:58	721 - 748	77 - 107	stØ9
10	1235	12.6	38° 35.900	76° 04.874	B	6.5 - 12.0	7:05	763 - 793	113 - 149	st10
10	"	"	"	"	T	0.5 - 6.0	6:00	795 - 820	151 - 178	st10
11	1259	8.0	38° 34.811	76° 03.468	B	4.0 - 7.5	5:30	842 - 867	197 - 225	st11
11	"	8.0	"	"	T	0.5 - 3.5	6:26	869 - 892	231 - 259	st11
12	1326	4.6	38° 34.494	76° 02.569	B	2.5 - 4.0	7:13	913 - 949	272 - 304	st12
12	"	"	"	"	T	0.5 - 2.0	6:05	950 - 980	305 - 329	st12
13	1354	7.5	38° 35.433	76° 00.577	B	4.0 - 7.0	5:38	993 - 1018	335 - 362	st13

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-19

August ~~12~~ 19, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	"	"	"	"	T	0.5-3.5	6:05	1021-1046	365-390	St 13
14	1417	9.7	38° 36.314	75° 58.987	B	5.0-9.0	5:40	1063-1089	397-424	St 14
~~14~~	"	"	"	"	T	0.5-4.5	6:51	1092-1120	428-457	St 14
15	1442	4.0	38° 38.099	75° 58.989	O	0.5-3.5	8:13	1134-1153	479-518	St 15
16	1516	5.0	38° 43.371	76° 00.645	O	0.5-4.5	7:10	1161-1196	523-562	St 16

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

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BT10-~~18~~ 19 Water Sample Log 8/12/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
None	01						1.3			
B	Ø2	7.5	0.102	0.245	20	1256	1.2			
None	Ø3						0.8			
T	Ø4	0.5	0.109	0.095	20	1420	1.0			
None	Ø5						1.0			
B	Ø6	8.0	0.162	0.267	20	1453	1.0			
None	Ø7						0.9			
T	Ø8	0.5	0.092	0.384	20	1610	0.8			
None	Ø9						0.8			
B	10	12.0	0.221	0.304	20	1641	0.8			
B	11	7.5	0.382	0.274	20	1709	0.7			
None	12						0.7			
T	13	0.5	0.100	0.695	20	1812	0.6			
None	14						0.6			
None	15						0.5			
Bot	16	4.5	0.241	0.651	20	1922	0.4			

1 pump No good

Liters/min

TRANSPORT Consecutive Station Log: BT10-20

September 15, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	~~BT02~~ CTD
Ø1	0759	10.1	38° 38.162	76° 19.650	B	4.5 - 9.0	8:21	2184 - 2338		St Ø1
Ø1	"	"	"	"	T	0.5 - 4.0	6:50	2348 - 2471		St Ø1
Ø2	0838	8.3	38° 39.059	76° 16.542	B	4.0 - 7.5	8:06	10 - 160		St Ø2
Ø2	"	"	"	"	T	0.5 - 3.5	7:45	165 - 304		St Ø2
Ø3	0908	5.0	38° 41.285	76° 16.951	B	3.0 - 5.0	6:58	4584 - 4697	355 - 480	St Ø3
Ø3	"	"	"	"	T	0.5 - 2.5	6:34	4708 - 4795	492 - 612	St Ø3
Ø4	0942	6.1	38° 42.924	76° 15.667	B	3.0 - 5.5	6:23	63 - 166	658 - 776	St Ø4
Ø4	"	"	"	"	T	0.5 - 2.5	6:21	177 - 274	788 - 903	St Ø4
Ø5	1011	5.8	38° 40.296	76° 13.163	O	0.5 - 5.2	5:38	321 - 414	939 - 1040	St Ø5
Ø6	1028	10.1	38° 38.395	76° 11.832	B	5.5 - 9.5	6:08	471 - 578	1064 - 1175	St Ø6
Ø6	"	"	"	"	T	0.5 - 5.0	7:02	583 - 700	1180 - 1306	St Ø6
Ø7	1056	5.5	38° 39.945	76° 10.846	B	3.0 - 5.0	6:15	733 - 848	1328 - 1442	St Ø7
Ø7	"	"	"	"	T	0.5 - 2.5	6:18	853 - 967	1444 - 1562	St Ø7
Ø8	1124	10.7	38° 37.766	76° 07.983	B	5.5 - 10.0	5:59	1014 - 1129	1600 - 1709	St Ø8
Ø8	"	"	"	"	T	0.5 - 5.0	6:07	1135 - 1251	1714 - 1824	St Ø8
Ø9	1151	5.1	38° 35.825	76° 07.017	B	2.5 - 4.5	5:53	1311 - 1425	1876 - 1982	St Ø9
Ø9	"	"	"	"	T	0.5 - 2.0	6:54	1430 - 1560	1986 - 2110	St Ø9
1Ø	1214	13.4	38° 35.931	76° 05.094	B	6.5 - 12.5	7:06	1612 - 1713	2170 - 2300	St 1Ø
1Ø	"	"	"	"	T	0.5 - 6.0	6:21	1729 - 1833	2318 - 2433	St 1Ø
11	1242	8.4	38° 34.815	76° 03.458	B	4.5 - 8.0	6:01	1869 - 1973	2449 - 2560	St 11
11	"	"	"	"	T	0.5 - 4.0	6:00	1976 - 2078	2564 - 2674	St 11
12	1305	4.7	38° 34.616	76° 02.751	B	2.5 - 4.0	6:02	2155 - 2265	2732 - 2843	St 12
12	"	"	"			0.5 - 2.0	6:25	2270 - 2380	2848 - 2963	St 12

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

TRANSPORT Consecutive Station Log: BT10-20

September 15, 2010, RV Terrapin

Station	Time (LMT)	Depth (m)	Latitude	Longitude	Interval	Interval Range (m)	Pump Duration	Vol. Filtered Pump (1)	Vol. Filtered Pump (2)	BT02 CTD
13	1331	7.9	38°35.309	76°00.594	B	4.0 - 7.5	6:00	2416-2533	2989-3100	st13
13	"	"	"	"	T	0.5 - 3.5	6:04	2537-2642	3110-3214	st13
14	1352	10.0	38°36.364	75°58.954	B	5.0 - 9.5	6:08	2671-2787	3232-3346	st14
14	"	"	"	"	T	0.5 - 4.5	6:32	2791-2900	3352-3450	st14
15	1417	3.9	38°38.070	75°58.963	O	0.5 - 3.5	8:11	2949-3043	3463-3589	st15
16	1506	5.5	38°45.305	75°59.905	O	0.5 - 4.5	7:10	Stopped	3605-3716	st16
16B	1521	6.0	38°45.134	76°00.035	O	0.5 - 4.5	6:19	3136-3236	3732-3841	st16b

Drifting over shelf break toward deep water

Interval O=Oblique, S = Surface, B = Bottom, P = Pycnocline

BT10-20 Water Sample Log 9/15/2010

Sample Type	Station Number	Sample Depth (m)	OBS Voltage 1	Fluorometer Voltage 4	Volume filtered (ml)	Time (GMT)	Secchi Depth	pH Top	pH Bot.	Station Notes
None	Ø1						2.8			
Bot	Ø2	7.5	2.23	0.169	20	1247	3.3			
None	Ø3						3.0			
Top	Ø4	0.5	2.32	0.103	20	14:04	2.0			
None	Ø5						3.0			
Bot	Ø6	9.5	2.09	0.163	20	14:38	2.5			
None	Ø7						2.4			
Top	Ø8	0.5	2.76	0.095	20	15:45	1.8			"forgot to hit" MARK
None	Ø9						1.3			
Bot	10	12.5	2.15	0.189	20	16:23	1.4			
Surf.	11	0.5	2.70	0.097	20	17:03	1.0			
None	12						1.0			
None	13						0.9			
None	14						0.7			
Bot	15	3.5	2.22	0.404	20	18:26	0.7			