

# **CRUISE REPORT**

**C-211**

## **SCIENTIFIC ACTIVITIES**

**St. Croix, USVI– St. George’s, Bermuda – Lunenburg, Nova Scotia –Woods Hole, MA**

**10 May - 16 June, 2007**

***SSV Corwith Cramer***

**Sea Education Association  
Woods Hole, Massachusetts**

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To obtain unpublished data, contact the SEA data archivist:

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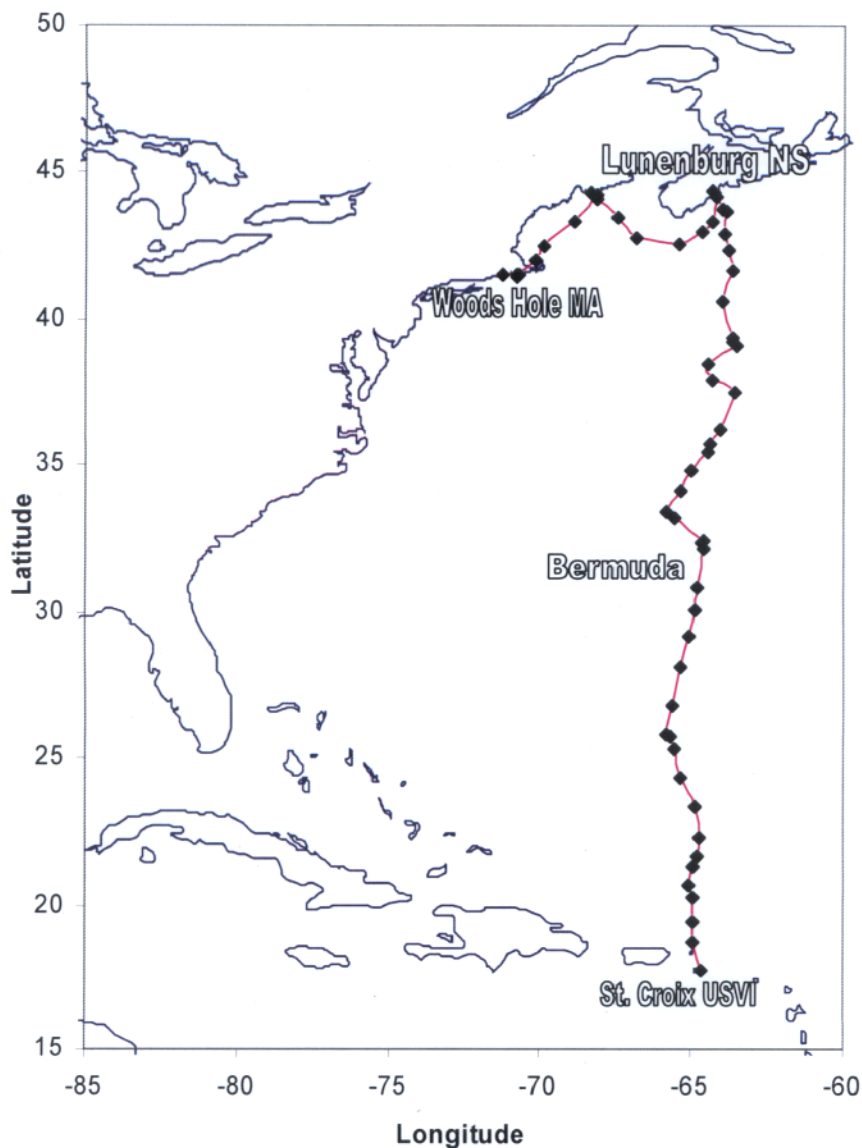
Web: [www.sea.edu](http://www.sea.edu)

## Data Description

This cruise report provides a record of data collected aboard the SSV *Corwith Cramer* during Cruise C-211 (U.S. State Department Cruise 2006-115). The cruise track of C-211 (Figure 1, Table 1) was a passage from St. Croix USVI to Bermuda, Nova Scotia, and ending in Woods Hole MA. The CTD-fluorometer generated temperature and salinity, and *in vitro* chlorophyll a cross sections from St. Croix to Lunenburg are shown in Figures 2, 3, and 4. Acoustic Doppler Current Profiler (ADCP) display of east-west currents and the ADCP surface current vectors are Tables 5 and 6. The cruise participants are listed in Table 2. Student projects aboard C-211 are listed in Table 3.

During the six week voyage we collected samples or data at 52 discrete oceanographic stations (Appendix A), and 49 surface stations (Appendix B). Summaries of sediment collections are listed in Appendix C. Chemical properties with depth are contained in Appendix D. The CTD information is listed in Appendix E and the profiles are illustrated in Appendix F. Summaries of biological net samples are contained in Appendix G. Appendix H records the deployments of the bathyphotometer.

Figure 1. Midnight and noon positions on SSV *Corwith Cramer* cruise 211.



**TABLE 1.**  
**C-211 Noon and Midnight Positions.**

<b>DATE</b>	<b>TIME</b>	<b>LAT.</b>	<b>LONG.</b>	<b>COMMENTS</b>
<b>2007</b>	<b>(local)</b>	<b>°N</b>	<b>°W</b>	
10-May	1200	17°44.8' N	64°41.9' W	Alongside Christiensted, St. Croix, USVI
11-May	0000	17°44.8' N	64°41.9' W	Alongside Christiensted, St. Croix, USVI
	1200	17°45.0' N	64°41.9' W	
12-May	0000	18°41.9' N	64°57.2' W	
	1200	19°25.0' N	64°57.2' W	
13-May	0000	20°17.0' N	64°57.6' W	
	1200	20°40.6' N	65°03.4' W	
14-May	0000	21°16.6' N	64°57.1' W	
	1200	21°38.9' N	64°48.8' W	
15-May	0000	22°17.3' N	64°46.2' W	
	1200	23°20.9' N	64°53.7' W	
16-May	0000	24°19.6' N	65°19.9' w	
	1200	25°17.4' N	65°34.8' W	
17-May	0000	25°41.1' N	65°39.7' W	
	1200	25°47.5' N	65°48.2' W	
18-May	0000	26°45.1' N	65°39.1' W	
	1200	28°3.8' N	65°20.4' W	
19-May	0000	29°8.1' N	65°5.3' W	
	1200	30°1.0' N	64°52.5' W	
20-May	0000	30°49.6' N	64°50.5' W	
	1200	32°10.3' N	64°38.1' W	
21-May	0000	32°22.8' N	64°40.6' W	Alongside St. George's Bermuda
	1200	32°22.8' N	64°40.6' W	Alongside St. George's Bermuda
22-May	0000	32°22.8' N	64°40.6' W	Alongside St. George's Bermuda
	1200	32°22.8' N	64°40.6' W	Alongside St. George's Bermuda
23-May	0000	32°22.8' N	64°40.6' W	Alongside St. George's Bermuda
	1200	32°22.4' N	64°40.7' W	Anchored St. David's Bermuda
24-May	0000	32°22.4' N	64°40.7' W	Anchored St. David's Bermuda
	1200	32°27.6' N	64°37.3' W	
25-May	0000	33°10.7' N	65°32.3' W	
	1200	33°25.8' N	65°48.3' W	
26-May	0000	34°5.0' N	65°21.0' W	
	1200	34°49.9' N	64°59.5' W	
27-May	0000	35°26.7' N	64°27.6' W	
	1200	35°44.5' N	64°22.4' W	
28-May	0000	36°12.9' N	64°4.3' W	
	1200	37°26.7' N	63°34.1' W	
29-May	0000	37°54.5' N	64°19.2' W	
	1200	38°28.7' N	64°26.5' W	
30-May	0000	39°3.3' N	63°31.1' W	
	1200	40°38.9' N	63°59.8' W	
31-May	0000	41°38.2' N	63°37.7' W	
	1200	42°21.5' N	63°49.2' W	
1-Jun	0000	42°53.9' N	63°57.5' W	
	1200	42°21.5' N	63°49.2' W	
2-Jun	0000	42°53.9' N	63°57.5' W	
	1200	43°40.8' N	63°52.1' W	
3-Jun	0000	43°46.0' N	64°0.4' W	
	1200	44°18.2' N	64°15.7' W	Anchored Rose Bay, N.S.
4-Jun	0000	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.



5-Jun	1200	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
	0000	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
	1200	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
6-Jun	0000	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
	1200	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
7-Jun	0000	44°22.6' N	64°18.8' W	Alongside, Lunenburg N.S.
	1200	44°11.2' N	64°13.2' W	Alongside, Lunenburg N.S.
8-Jun	0000	43°20.2' N	64°18.4' W	
	1200	43°0.1' N	64°42.3' W	
9-Jun	0000	42°34.8' N	65°24.7' W	
	1200	42°47.2' N	66°49.6' W	
10-Jun	0000	43°28.3' N	67°28.0' W	
	1200	44°6.2' N	68°6.4' W	
11-Jun	0000	44°20.0' N	68°18.8' W	Anchored, Somes Sound. M.D.I. ME, U.S.A.
	1200	44°20.0' N	68°18.8' W	Anchored, Somes Sound. M.D.I. ME, U.S.A.
	1200	44°20.0' N	68°18.8' W	Anchored, Somes Sound. M.D.I. ME, U.S.A.
12-Jun	0000	44°20.0' N	68°18.8' W	
	1200	44°15.8' N	68°6.5' W	
13-Jun	0000	43°22.2' N	68°52.3' W	
	1200	42°28.9' N	69°54.9' W	
14-Jun	0000	42°2.5' N	70°10.4' W	Anchored, Provincetown MA
	1200	41°31.6' N	70°48.3' W	
15-Jun	0000	41°30.6' N	71°13.3' W	Anchored, Seconet River RI
	1200	41°26.4' N	70°46.7' W	
16-Jun	0000	41°28.3' N	70°45.3' W	Anchored, Tarpualin Cove MA
	1200	41°31.4' N	70°40.3' W	Alongside Woods Hole

Figure 2. CTD Temperature profile from St. Croix USVI to Lunenburg Nova Scotia.

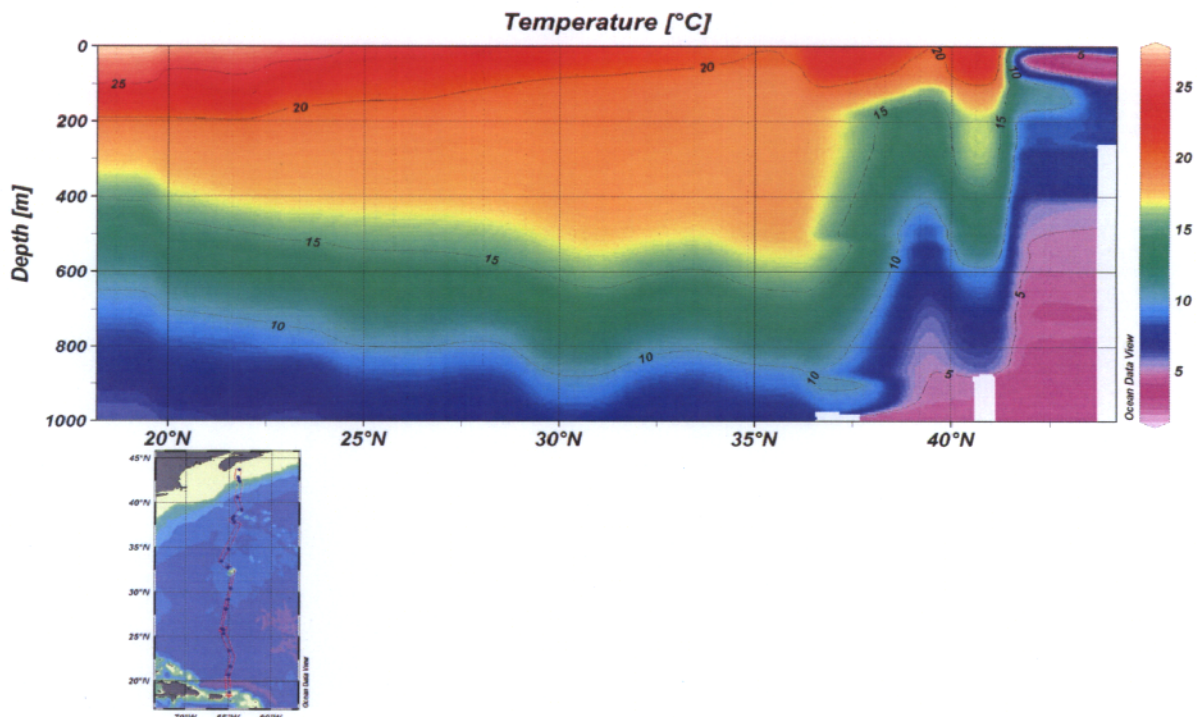


Figure 3. CTD Salinity profile from St. Croix USVI to Lunenburg Nova Scotia.

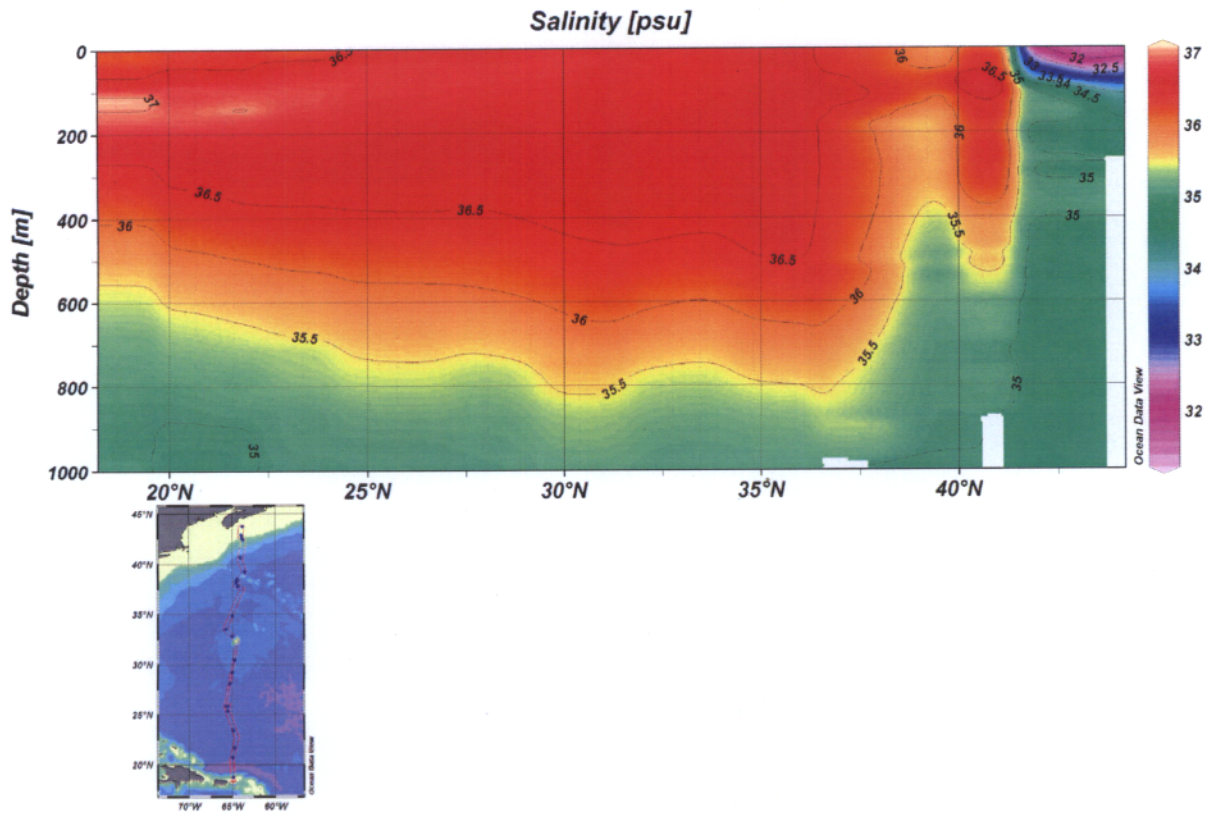


Figure 4. CTD-fluorometer relative *in vivo* Chlorophyll-*a* profile from St. Croix USVI to Lunenburg Nova Scotia.

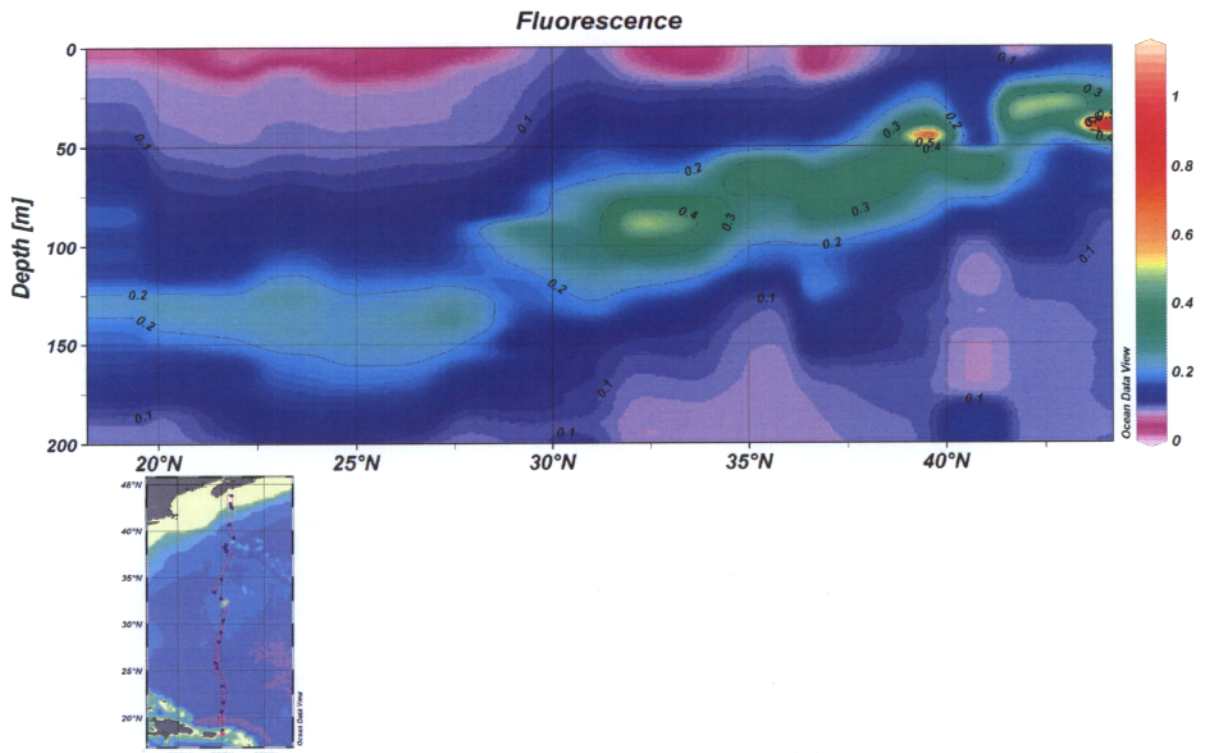




Figure 5. Acoustic Doppler Current Profile of East–West Currents from St. Croix USVI to Lunenburg Nova Scotia

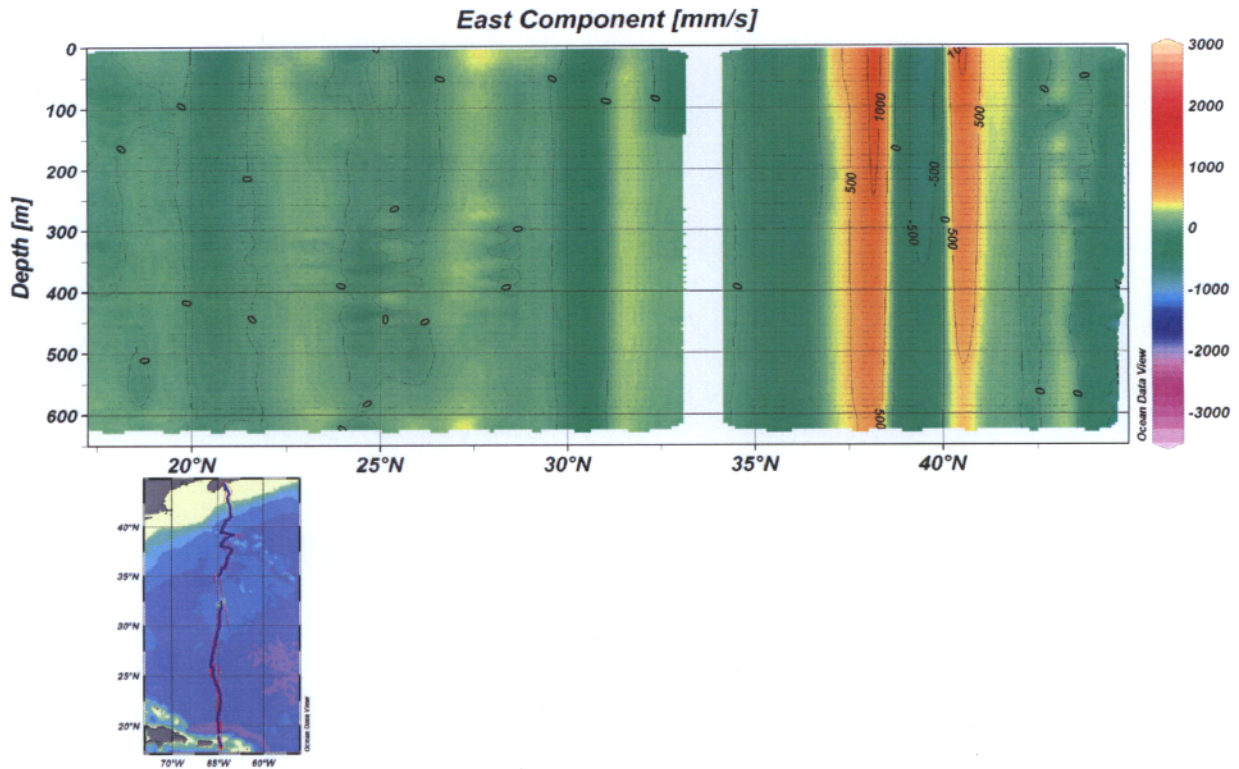


Figure 6. Acoustic Doppler Current Profiler Vectors of Surface Current Velocity from St. Croix USVI to Woods Hole MA.

**Magnitude [mm/s] @ Depth [m]=Top**

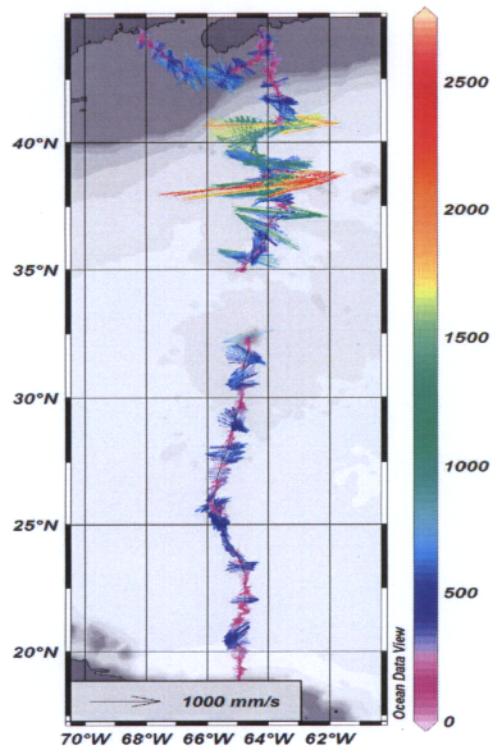


Table 2. Ship's Complement for SSV *Corwith Cramer* Cruise C-207

Nautical Staff

Beth Doxsee	Captain
Tim Frush; St. Croix to Lunenburg.	First Mate
Jen Haddock; Lunenburg to Woods Hole.	First Mate
Amanda Madeira; St. Croix to Bermuda	Second Mate
Bin Le; Legs II, III.	Second Mate
Sandy Aylesworth	Third Mate
Kate Haber	Engineer
Laura Morrissey	Steward
Anne Handschy	Deckhand
Aaron Norland	Deckhand
Mark O'Brien	Deckhand

Scientific Staff

Chuck Lea	Chief Scientist
Jim Foley	First Assistant Scientist
Matt Lambert	Second Assistant Scientist
Pat Curran	Third Assistant Scientist

Visitors

John Bullard	Sea Education Association
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Students

Alyssa Abegg	University of Denver
Tom Backof	Drexel University
Jennefer Bailey	University of Northern Colorado
Jocelyn Bishop	Marist College, NY
Gordy Blackwood	Guilford College
Katie Boldt	Dartmouth College
Scott Brewer	Hamilton College
Jeremiah Cobb	Wheaton College
Audrey Douglas	University of Oregon
Nate Fried	Drexel University
Vanna Hosanny	Colorado State University
Christina Kim	University of California, Los Angeles
Kelley Parsons	Emerson College
Rebecca Salzer	Carleton College
Alice Shoen	Lawrence University
Carla Scocchi	University of Rhode Island
Andrea Shank	University of Miami
Sarah Taylor	
Emily Williams	Marlboro College

**Table 2. Student Projects Aboard C-211**

<b>STUDENT AUTHOR(S)</b>	<b>TITLE</b>
Alyssa Abegg	A Study of the Distribution of North Atlantic Pelagic Macro and Micro Plastics
Jennifer Bailey, Katie Boldt	Analysis of Gulf Stream recirculation in the Sargasso Sea
Jocelyn Bishop, Rebecca Salzer, Kelley Parsons	Chlorophyll <i>a</i> Distribution in the Sargasso Sea, Slope and Shelf Waters of the Atlantic Ocean
Gordon Blackwood Scott Brewer, Tom Backof	The Effects of Depth and Region on Subtropical Underwater The Correlation Between North Atlantic Oscillation and the Formation of the 18° Water Mass
Jeremiah Cobb, Audrey Douglas	Seasonal Variation in <i>Halobates micans</i> : Distribution and Mechanisms for Re-Population in the Northwest Atlantic
Nathan Fried, Christina Kim	Neustonic Myctophid Distribution and Net Avoidance in the Western North Atlantic Ocean
Vanna Hosanny, Andrea Shank	Meter Nets Mesh Size: Biomass Density and Diversity Differences in the Western North Atlantic
Alice Schoen	Distribution and Surface Waters-Water Column Variation of Pteropods Species in the of the Western North Atlantic
Carla Scocchi	Seasonal variation of euthecosomatous pteropods in the Western North Atlantic
Sarah T. Taylor	Leptocephali Distribution and Size Comparison
Emily K. Williams	Frontal Zones: Temperature, Salinity and Fluorescence Changes Across the Subtropical Convergence, Gulf Stream and Slope-Shelf Front



**APPENDIX A**  
**STATION INFORMATION SUMMARY OF C-211**

STATION C-211	DATE	LOG (NM)	LAT. (°N)	LONG. (°W)	GENERAL LOCALE	EQUIPMENT
001	12-May-07	52.7	18°39.8'	64°57.5'	Tropical North Atlantic	CTD Bathypotometer Neuston Nets
002	12-May-07	96.3	19°25.7'	64°56.9'	Tropical North Atlantic	CTD Neuston Net
003	12-May-07	135.6	20°4.8'	64°57.3'	Southern Sargasso Sea	Meter Nets
004	13-May-07	150.0	20°16.2'	64°59.3'	Southern Sargasso Sea	Neuston Nets
005	13-May-07	177.5	20°40.5'	65°4.4'	Southern Sargasso Sea	CTD Secchi Disc Phytoplankton Net Niskin Bottles Meter Net Neuston Nets
006	13-May-07	205.6	21°7.8'	64°57.7'	Southern Sargasso Sea	Meter Nets
007	14-May-07	216.5	21°16.6'	64°57.1'	Southern Sargasso Sea	Neuston Net
008	14-May-07	237.2	21°38.9'	64°48.9'	Southern Sargasso Sea	CTD Neuston Net
009	15-May-07	270	22°17.3'	64°46.2'	Southern Sargasso Sea	Neuston Nets
010	15-May-07	318.7	23°22.2'	64°54.6'	Southern Sargasso Sea	CTD Neuston Net
011	16-May-07	433.8	25°18.5'	65°33.9'	Southern Sargasso Sea	CTD Neuston Net
012	16-May-07	466.7	25°44.7'	65°34.8'	Southern Sargasso Sea	CTD Bathypotometer Meter Nets
013	17-May-07	467.1	25°40.1'	65°40.9'	Southern Sargasso Sea	Neuston Nets
014	17-May-07	490.0	25°48.2'	65°45.4'	Southern Sargasso Sea	CTD Secchi Disc Phytoplankton Net Niskin Bottles Meter Net
015	17-May-07	534.9	26°30.9'	65°40.2'	Southern Sargasso Sea	Meter Nets
016	18-May-07	549.2	26°45.6'	65°40.2'	Southern Sargasso Sea	Neuston Net
017	18-May-07	622.6	28°03.7'	65°19.2'	Southern Sargasso Sea	CTD Neuston Net
018	18-May-07	686.6	29°09.0'	65°04.0'	Southern Sargasso Sea	Neuston Nets
019	19-May-07	760	30°23.7'	64°48.7'	Northern Sargasso Sea	CTD
020	19-May-07	764.8	30°20.9'	64°51.4'	Northern Sargasso Sea	Neuston Net
021	24-May-07	912.5	32°45.5'	65°4.5'	Northern Sargasso Sea	CTD
022	25-May-07	969.3	33°27.1'	65°49.1'	Northern Sargasso Sea	CTD Meter Net Neuston Net
023	25-May-07	997.0	33°51.7'	65°24.8'	Northern Sargasso Sea	Meter Nets
024	26-May-07	1008.5	34°3.2'	65°18.9'	Northern Sargasso Sea	Neuston Nets
025	26-May-07	1048.8	34°43.3'	65°2.9'	Northern Sargasso Sea	CTD Meter Net Neuston Net
026	26-May-07	1079.5	35°18.1'	64°40.5'	Northern Sargasso Sea	Meter Nets

027	27-May-07	1091.7	35°29.9'	64°38.7'	Northern Sargasso Sea	Neuston Nets
028	27-May-07	1115.8	35°47.0'	64°23.2'	Northern Sargasso Sea	CTD Secchi Disc Phytoplankton Net Niskin Bottles Neuston Nets
029	28-May-07	1148.1	37°13.8'	64°4.1'	Gulf Stream	Neuston Nets
030	28-May-07	1201.2	37°14.7'	63°41.2'	Gulf Stream	CTD
031	28-May-07	1201.2	37°14.7'	63°41.2'	Gulf Stream Gulf Stream/N.Sargasso Sea	Neuston Net CTD
032	28-May-07	1213.0	37°28.0'	63°33.4'	Gulf Stream	CTD
033	29-May-07	1295.4	38°6.7'	64°38.6'	Gulf Stream	CTD
034	29-May-07	1309.1	38°19.2'	64°34.1'	Gulf Stream	CTD
035	29-May-07	1317.4	38°28.5'	64°27.5'	Slope Water	CTD Neuston Net
036	29-May-07	1359.9	38°57.3'	63°43.1'	Slope Water	Meter Net
037	30-May-07	1373.3	39°3.3'	63°31.2'	Slope Water	Neuston Net
038	30-May-07	1397.4	39°13.3'	63°36.7'	Slope Water	CTD Neuston Net
039	30-May-07	1423.2	39°21.4'	64°27.0'	Slope Water	Meter Nets
040	31-May-07	1429.1	39°22.7'	64°38.6'	Slope Water	Neuston Net
041	30-May-07	1490.0	40°37.3'	64°5.0'	Gulf Stream/Slope Water	CTD Secchi Disc Phytoplankton Net Niskin Bottles Neuston Nets
042	1-Jun-07	1554.5	41°37.5'	63°38.2'	Slope Water	CTD
043	1-Jun-07	1597.8	42°21.3'	63°47.8'	Slope Water	Secchi Disc Phytoplankton Net Niskin Bottles Neuston Nets
044	1-Jun-07	1608.2	42°31.3'	63°53.1'	Slope Water	CTD
045	1-Jun-07	1626.5	42°47.4'	63°57.1'	Shelf Slope Break	CTD Meter Net
046	1-Jun-07	1629.8	42°50.9'	63°59.0'	Shelf Slope Break	CTD
047	2-Jun-07	1635.6	42°56.3'	63°56.3'	Shelf Water	Neuston Net
048	2-Jun-07	1678.1	43°41.1'	63°51.6'	Shelf- Baccaro Basin	CTD Niskin Bottle Shipek Grab Gravity Core
049	8-Jun-07	1809.0	43°20.4'	64°17.9'	Continental Shelf	Neuston Net
050	8-Jun-07	1835.9	43°1.1'	64°43.3'	Shelf- Baccaro Bank	CTD Neuston Net
051	8-Jun-07	1873.0	42°34.7'	65°24.0'	Continental Shelf	Neuston Net
052	9-Jun-07	1922.8	42°47.5'	66°48.8'	Continental Shelf	CTD

**APPENDIX B C-211 Surface Stations.**

Dashes (-) indicate no data, asterix (\*) indicate values below detectable limits.

Station	Date	Log (n.mile)	Latitude (°N)	Longitude (°W)	Temp (°C)	Salinity (PSU)	PO <sub>4</sub> (ug/l)	Chlor. ( <i>in Vivo</i> )	Chlor. (ug/l)	Micro Plastic # /liter
SS-001	11-May-07	12.4	18°1.9'	64°44.9'	28.7	35.4	-	97	0.144	812
002	11-May-07	35.2	18°24.0'	64°51.4'	28.0	36.2	-	110	0.183	156
003	12-May-07	67.5	18°55.0'	64°57.0'	28.0	35.5	-	1016	0.043	267
004	12-May-07	110.5	19°39.3'	64°57.7'	28.0	36.2	-	173	0.131	512
005	12-May-07	155.3	20°20.3'	65°2.1'	27.7	35.4	-	260	*	145
006	13-May-07	197.4	20°58.7'	64°59.8'	27.5	34.3	-	91	0.098	89
007	14-May-07	237.2	21°37.8'	64°48.2'	27.3	36.5	-	127	0.135	367
008	15-May-07	277.2	22°27.1'	64°46.5'	26.6	36.1	-	338	0.124	222
009	15-May-07	318.7	23°22.0'	64°54.4'	26.3	35.7	-	168	0.245	67
010	15-May-07	358.7	23°56.8'	65°9.5'	26.2	35.7	-	404	0.133	445
011	16-May-07	396.4	24°39.1'	65°26.7'	25.2	36.3	-	1322	0.064	834
012	16-May-07	435.3	25°15.8'	65°35.2'	25.6	36.2	-	188	0.196	0
013	17-May-07	477.3	25°35.5'	65°44.8'	24.4	36.2	-	343	0.203	567
014	17-May-07	519.0	26°14.9'	65°46.5'	24.6	36.3	-	517	0.231	211
015	18-May-07	559.0	26°55.3'	65°39.4'	24.9	36.2	-	437	0.198	1790
016	18-May-07	601.6	27°40.4'	65°27.3'	25.3	35.9	-	373	0.248	56
017	18-May-07	622.6	28°3.8'	65°19.7'	24.5	36.2	*	200	*	133
018	18-May-07	641.5	28°25.7'	65°16.1'	24.1	36.4	*	243	0.011	278
019	18-May-07	661.5	28°46.2'	65°12.3'	24.2	36.2	*	301	0.124	334
020	18-May-07	682.2	29°6.2'	65°5.1'	22.4	36.8	*	359	0.129	1101
021	19-May-07	702.0	29°21.6'	65°2.9'	22.3	36.5	*	316	0.114	1735
022	19-May-07	721.7	29°43.1'	64°56.0'	22.1	36.7	*	366	0.311	278
023	19-May-07	743.6	30°5.9'	64°51.5'	22.1	36.5	*	290	0.129	1902
024	19-May-07	763.7	30°29.4'	64°50.9'	21.3	36.6	*	576	0.117	311
025	20-May-07	803.6	31°11.6'	64°49.4'	21.5	36.5	0.06	501	0.362	167
026	20-May-07	843.6	31°53.2'	64°37.7'	21.7	36.4	*	351	0.406	267
027	24-May-07	878.1	32°20.9'	64°29.4'	20.7	36.8	-	374	0.246	890
028	24-May-07	718.7	32°47.7'	65°11.1'	21.5	36.7	-	421	0.221	478
029	25-May-07	958.9	33°24.4'	65°39.1'	20.4	36.6	-	743	0.317	178
030	25-May-07	999.0	33°54.5'	65°22.1'	21.3	36.5	-	418	0.110	133
031	26-May-07	1038.9	34°38.8'	65°9.2'	20.4	36.4	-	378	0.408	256
032	26-May-07	1077.8	35°17.0'	64°41.2'	20.8	36.7	-	725	0.364	278
033	27-May-07	1120.9	35°44.5'	64°19.6'	22.4	36.6	-	407	0.279	133
034	27-May-07	1142.0	36°7.9'	64°6.5'	22.6	36.6	-	735	0.381	200
035	28-May-07	1182.0	36°54.0'	63°33.8'	23.9	36.5	-	620	0.325	756
036	28-May-07	1201.8	37°15.7'	63°37.7'	24.6	36.2	-	229	0.642	489
037	28-May-07	1223.2	37°37.8'	63°32.5'	23.8	36.6	-	551	0.374	289
038	28-May-07	1263.8	37°54.2'	64°15.8'	24.4	36.5	-	326	0.280	145
039	29-May-07	1305.0	38°18.0'	64°35.7'	24.8	36.5	-	232	0.357	234
040	29-May-07	1342.8	38°46.8'	63°57.3'	22.8	35.8	-	790	0.525	311
041	30-May-07	1382.1	39°5.3'	63°19.1'	17.6	35.1	-	3176	0.388	411
042	30-May-07	1402.7	39°11.9'	63°44.7'	19.1	35.3	-	1145	0.457	222
043	31-May-07	1447.5	39°44.2'	64°31.4'	23.5	36.5	-	1124	0.546	801
044	31-May-07	1487.5	40°34.0'	64°8.2'	23.8	36.5	-	883	0.233	656
045	31-May-07	1534.2	41°19.0'	63°37.5'	18.1	35.6	-	5169	0.432	178
046	1-Jun-07	1573.5	41°56.1'	63°40.1'	10.0	32.2	-	2654	0.320	189
047	1-Jun-07	1613.8	42°37.0'	63°54.4'	10.0	31.7	-	1597	0.316	267
048	2-Jun-07	1653.8	43°14.8'	63°49.2'	8.3	31.3	-	1749	0.340	434
049	2-Jun-07	1687.8	43°46.4'	63°58.8'	8.2	31.4	-	3826	0.338	89



APPENDIX  
C

C-211 SEDIMENT SAMPLES

Shipek Grab Stations:

STATION #	DATE	TIME (local)	LOG (nm)	LAT. (°N)	LONG. (°W)	GENERAL LOCALE	DEPTH (m)	DESCRIPTION
048	2-Jun-07	0950	1678.1	43°41.1'	63°51.6'	Lehave Basin	251	Dark Yellowish Brown 104R 4/2, silty

Gravity Core Stations:

STATION #	DATE	TIME (local)	LOG (nm)	LAT. (°N)	LONG. (°W)	GENERAL LOCALE	DEPTH (m)
048	2-Jun-07	1105	1678.1	43°41.1'	63°51.6'	Lehave Basin	251

APPENDIX D.

C-211 HYDROCAST DATA. Station locations are given in Appendix A.

Dash (-) indicates no value. Asterix (\*) indicates a value below detectable limits.

STATION #	BOTTLE	DEPTH (m)	TEMP (°C)	SAL (PSU)	DENSITY (σ <sub>t</sub> )	O2 (ml/l)	PO4 (ug/l)	CHLOR (ug/l)
C-211-								
005	13	0	27.1	36.30	23.65	5.2	*	0.163
Southern Sargasso Sea	12	16	26.6	36.34	23.86	5.2	*	0.145
Secchi depth: 38m	11	50	25.2	36.59	24.50	5.2	*	0.174
	10	75	24.2	36.66	24.83	5.8	*	0.214
	9	100	23.7	36.84	25.13	5.4	*	0.114
	8	151	21.7	36.89	25.74	5.0	0.075	0.146
	7	200	19.6	36.73	26.20	4.9	*	0.730
	6	250	18.5	36.61	26.38	5.5	0.009	-
	5	375	16.8	36.32	26.60	4.6	0.409	-
	4	501	14.2	35.89	26.85	4.1	0.327	-
	3	600	12.1	35.56	27.03	3.7	0.803	-
	2	750	9.3	35.18	27.22	3.5	1.413	-
	1	1000	6.2	34.92	27.47	5.2	1.639	-
014	13	43	22.9	36.80	25.33	-	*	-
Southern Sargasso Sea	12	68	22.2	36.79	25.50	-	*	0.234
Secchi depth: m	11	93	21.2	36.78	25.82	-	*	0.274
	10	143	21.4	36.7	26.50	-	*	0.068
	9	168	19.5	36.68	26.70	-	*	0.145
028	13	0	22.0	36.58	25.41	5.5	*	0.266
Northern Sargasso Sea	12	25	21.8	36.60	25.48	5.7	*	0.242
Secchi depth: 21m	11	50	21.2	36.63	25.69	5.6	0.007	0.280
	10	60	21.0	36.68	25.79	5.7	*	0.384
	9	75	19.9	36.65	26.04	5.8	*	0.327
	8	100	19.8	36.65	26.08	5.9	0.017	0.785
	7	123	19.2	36.66	26.25	5.8	*	0.237

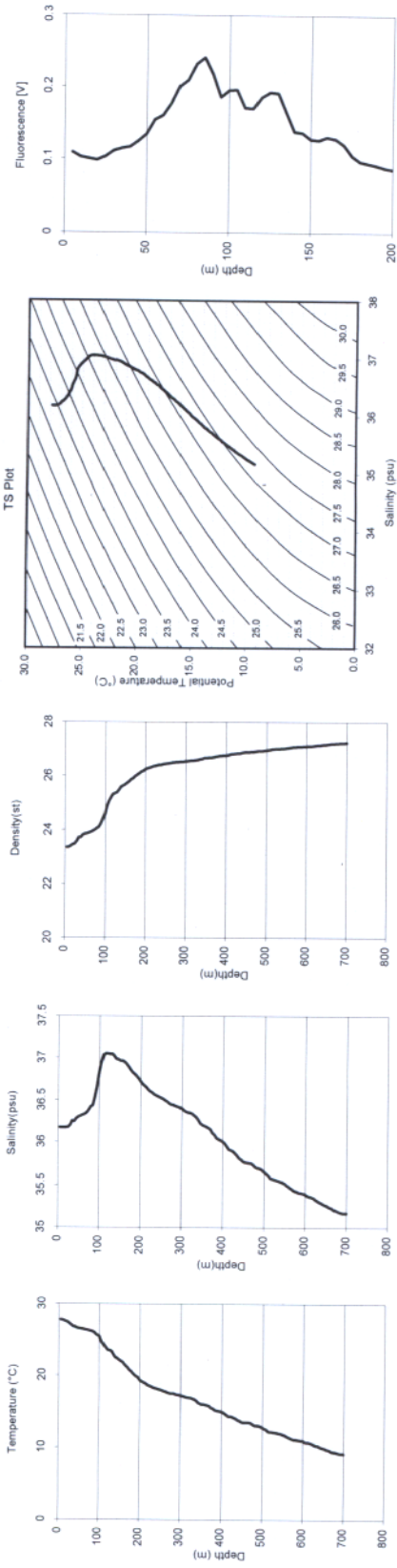
	6	149	18.8	36.66	26.35	6.0	0.046	0.174
	5	199	18.5	36.64	26.40	5.6	0.114	0.327
	4	248	18.4	36.62	26.43	5.4	0.109	-
	3	496	17.9	36.57	26.51	5.6	0.153	-
	2	743	13.6	35.85	26.96	4.8	0.212	-
	1	992	7.9	35.09	27.37	4.4	1.493	-
041	11	26	23.6	36.47	24.87	5.3	*	0.339
Gulf Stream/Slope	10	36	23.6	36.47	24.87	5.7	0.012	0.274
Water								
Secchi depth: 25m	9	51	23.6	36.48	24.90	5.6	*	0.305
	8	55	22.9	36.55	25.13	5.3	0.012	0.390
	7	65	22.4	36.74	25.42	5.2	0.026	0.312
	6	75	22.0	36.73	25.54	5.2	0.056	0.231
	5	100	20.4	36.76	26.00	4.7	0.129	0.293
	4	149	17.9	36.47	26.44	4.5	0.421	0.339
	3	199	16.6	36.31	26.62	5.9	0.192	-
	2	348	15.8	36.20	26.74	5.5	0.392	-
	1	497	12.8	35.58	26.89	4.7	0.908	-
043	13	0	10.3	32.87	25.23	7.43	0.343	0.432
Slope Water	12	10.2	9.6	32.80	25.31	7.66	0.324	0.291
Secchi depth: 14m	11	24.1	8.6	33.20	25.77	7.95	0.289	0.483
	10	35.3	5.6	33.42	26.35	8.31	0.455	0.906
	9	40.1	5.4	33.39	26.35	8.02	0.611	0.368
	8	49.8	8.7	34.20	26.55	7.11	0.484	0.300
	7	75.0	8.5	34.24	26.61	7.02	0.631	0.299
	6	99.4	11.7	35.23	26.83	8.12	0.333	0.427
	5	148.6	9.4	34.87	26.95	5.5	0.972	0.697
	4	247.8	7.9	35.03	27.32	4.23	1.576	-
	3	496.1	4.9	34.92	27.62	5.89	1.332	-
	2	744.4	4.6	34.93	27.68	6.51	1.269	-
	1	991.8	4.2	34.94	27.73	6.64	1.245	-
048								
Lehave Basin	1	245	7.8	34.73	27.1	3.8	1.605	-



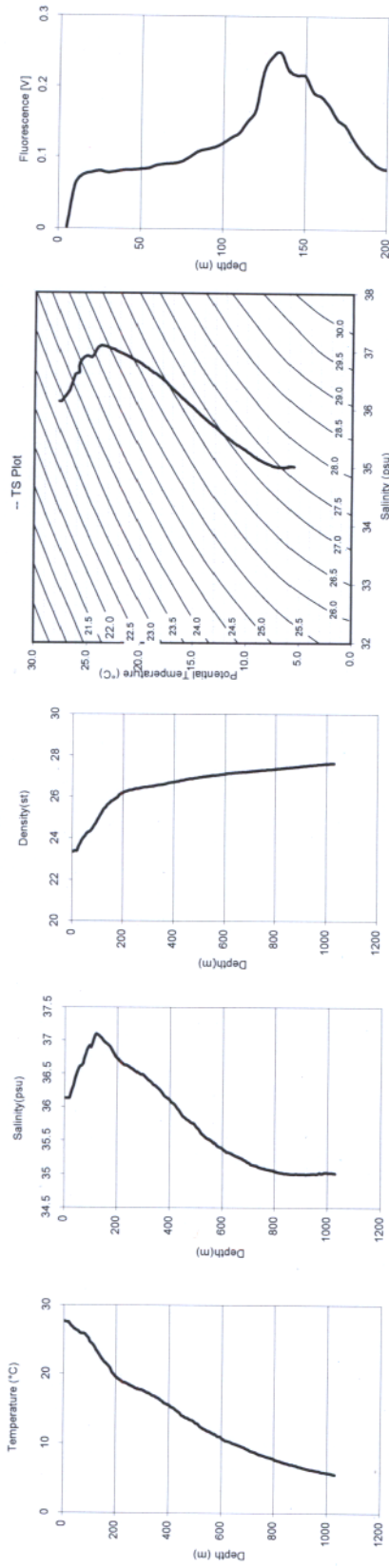
**APPENDIX E**  
**C-211 CTD STATION SUMMARY**

<b>STATION</b>	<b>DATE</b>	<b>LOG</b>	<b>LAT.</b>	<b>LONG.</b>	<b>DEPTH</b>	<b>GENERAL LOCATION</b>
<b>C-211</b>	<b>2007</b>	<b>(nm)</b>	<b>(°N)</b>	<b>(°W)</b>	<b>(m)</b>	
001	11-May-07	51.5	18°42.0'	64°56.6'	700	Tropical North Atlantic
002	12-May-07	96.1	19°26.0'	64°56.1'	1032	Tropical North Atlantic
005	13-May-07	177.5	20°40.8'	65°1.3'	1037	Southern Sargasso Sea
008	14-May-07	237.4	21°37.9'	64°48.3'	1039	Southern Sargasso Sea
010	15-May-07	318.7	23°22.2'	64°54.6'	1115	Southern Sargasso Sea
011	16-May-07	433.8	25°18.5'	65°33.9'	1115	Southern Sargasso Sea
012	16-May-07	466.7	25°44.7'	65°34.8'	980	Southern Sargasso Sea
014	17-May-07	490.0	25°48.2'	65°45.4'	1114	Southern Sargasso Sea
017	18-May-07	622.6	28°3.7'	65°19.2'	1043	Southern Sargasso Sea
018	18-May-07	686.6	29°9.0'	65°4.0'	730	Southern Sargasso Sea
019	19-May-07	760.0	30°23.7'	64°48.7'	1075	Northern Sargasso Sea
021	24-May-07	912.5	32°45.5'	65°4.5'	1075	Northern Sargasso Sea
022	25-May-07	969.3	33°27.1'	65°49.1'	4939	Northern Sargasso Sea
025	26-May-07	1048.8	34°43.3'	65°2.9'	1105	Northern Sargasso Sea
028	27-May-07	1115.8	35°47.0'	64°23.2'	1150	Northern Sargasso Sea
030	28-May-07	1201.2	37°14.7'	63°41.2'	1250	Gulf Stream
032	28-May-07	1213.0	37°28.0'	63°33.4'	1042	Gulf Stream/Northern Sargasso Sea
033	29-May-07	1295.4	38°6.7'	64°38.6'	887	Gulf Stream
034	29-May-07	1309.1	38°19.2'	64°34.1'	515	Gulf Stream
035	29-May-07	1317.4	38°28.5'	64°27.5'	881	Slope Water
038	30-May-07	1397.4	39°13.3'	63°36.7'	2260	Slope Water
041	30-May-07	1490.0	40°37.3'	64°5.0'	861	Gulf Stream/Slope Water
043	1-Jun-07	1597.8	42°21.3'	63°47.8'	1080	Slope Water
044	1-Jun-07	1608.2	42°31.3'	63°53.1'	1022	Slope Water
045	1-Jun-07	1626.5	42°47.4'	63°57.1'	228	Shelf Slope Break
046	1-Jun-07	1629.8	42°50.9'	63°59.0'	105	Shelf Slope Break
048	2-Jun-07	1678.1	43°41.1'	63°51.6'	250	Shelf Water
050	8-Jun-07	1835.9	43°1.1'	64°43.3'	74	Shelf- Baccaro Bank
052	9-Jun-07	1922.8	42°47.5'	66°48.8'	204	Continental Shelf

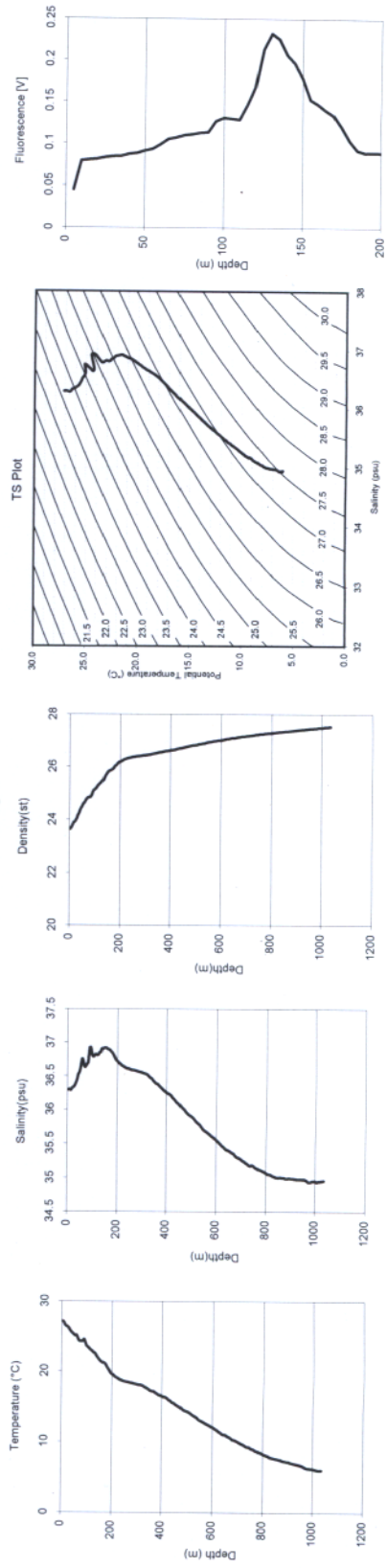
CTD 001 Tropical Water 1-18°N



CTD 002 Tropical Water 2-19°N

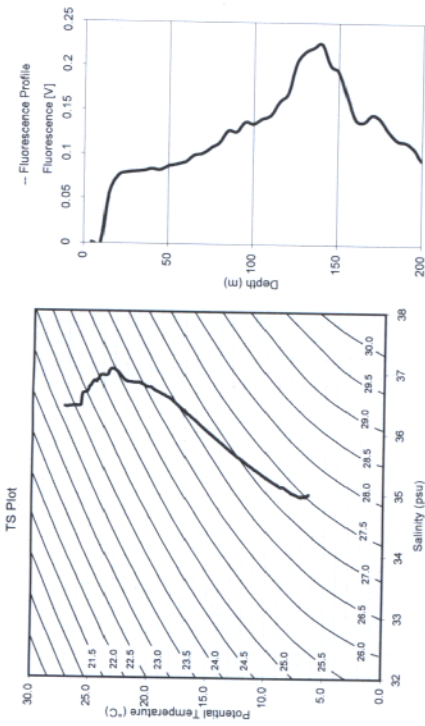
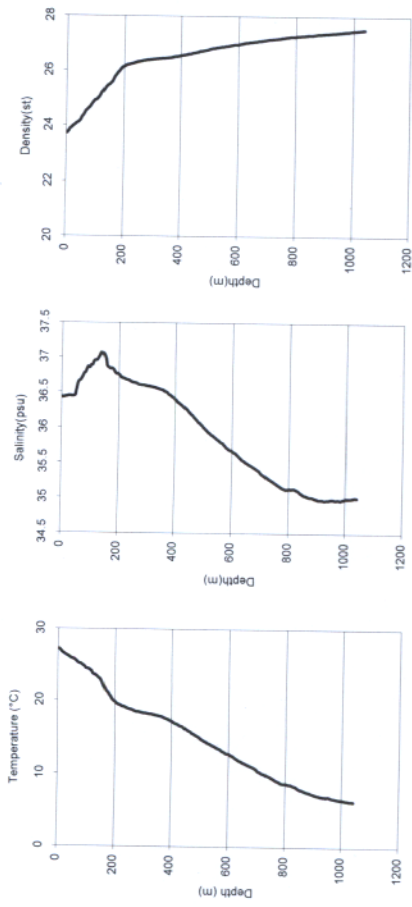


CTD 005 S.Sarg.Sea-1 20°N

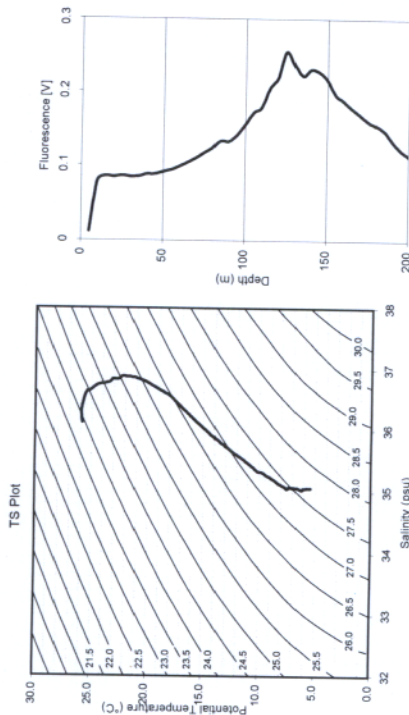
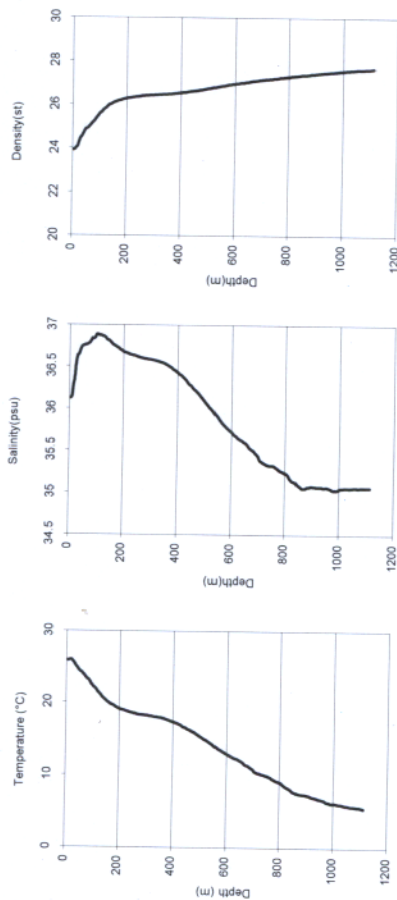


Appendix F. CTD Station Profiles (cont.)

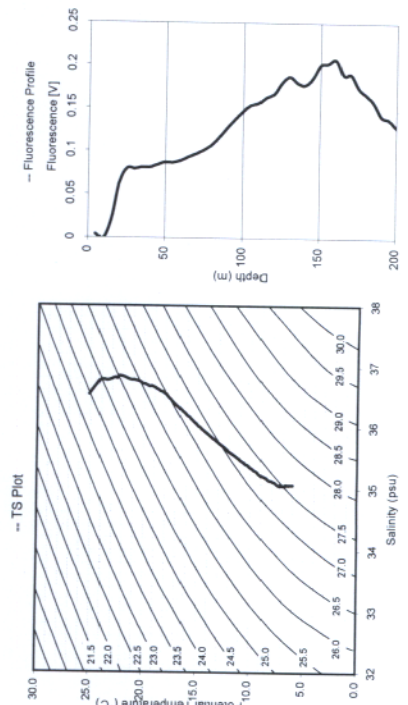
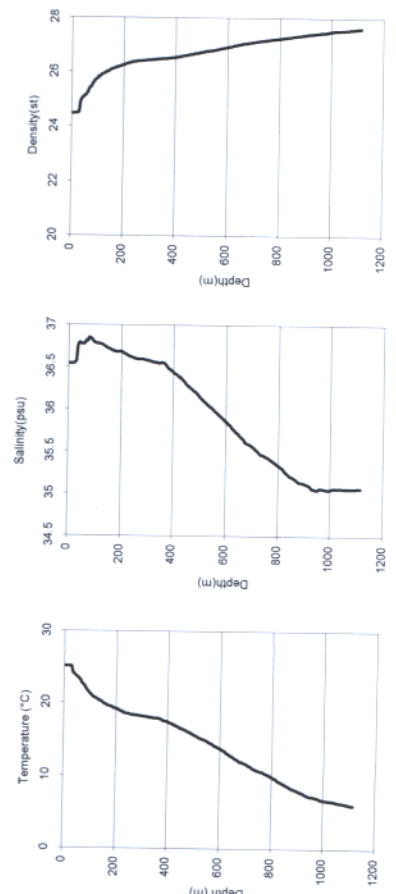
CTD 008 S.Sarg.Sea-2 21°N



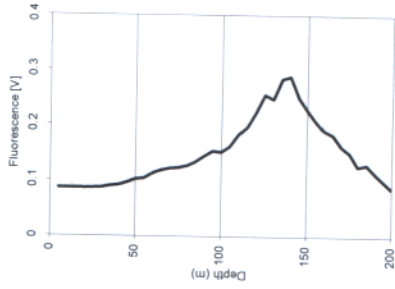
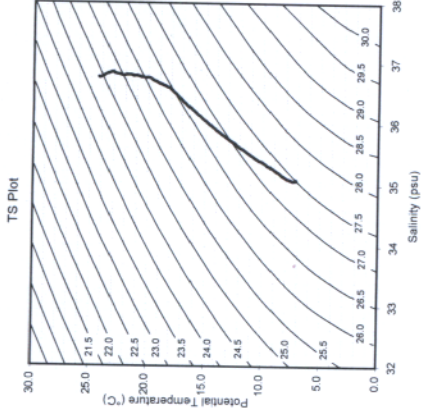
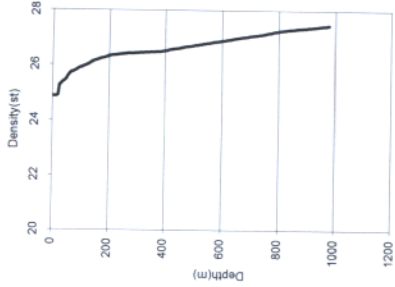
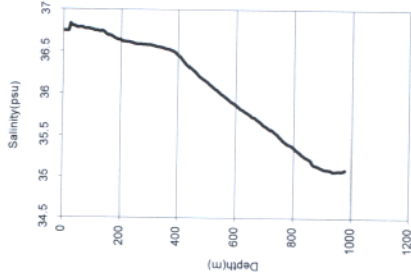
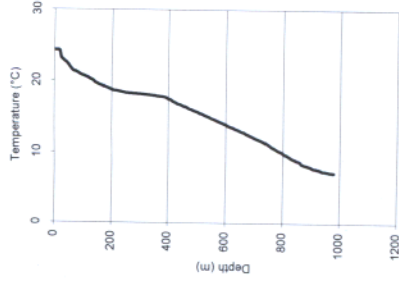
CTD 010 S.Sarg.Sea-3 23°N



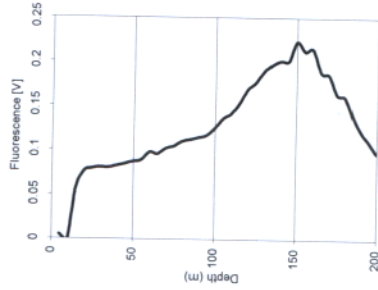
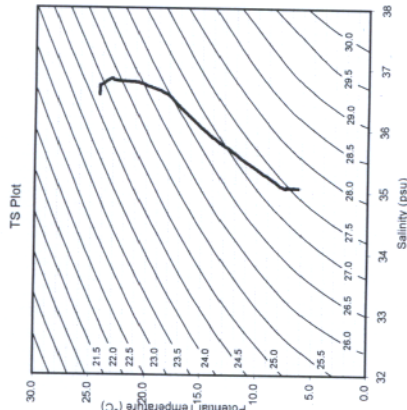
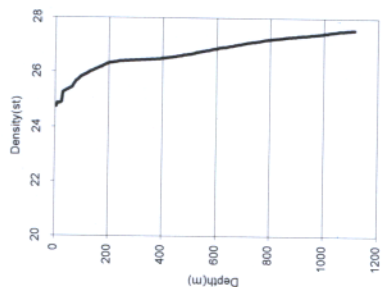
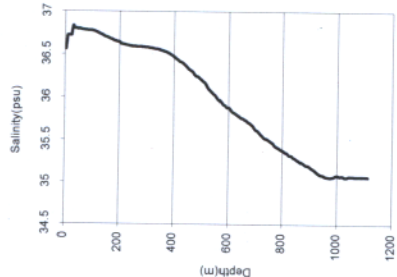
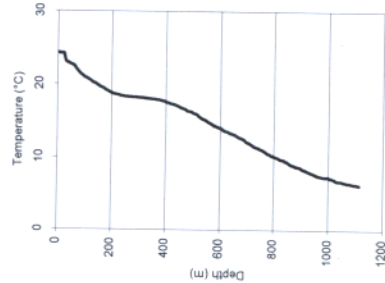
CTD 011 S.Sarg.Sea-4 25°N



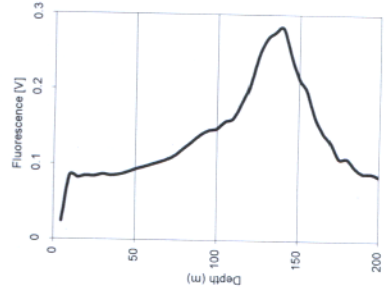
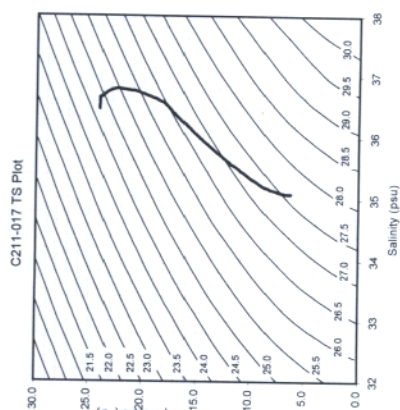
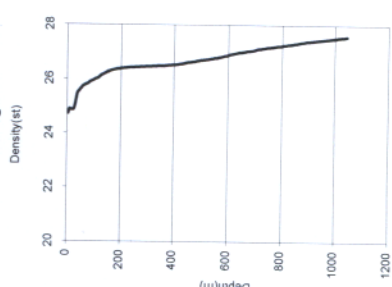
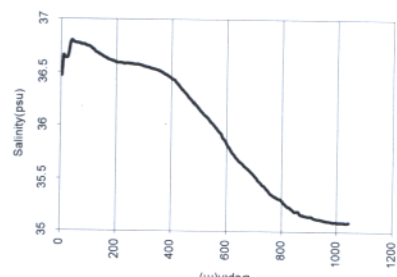
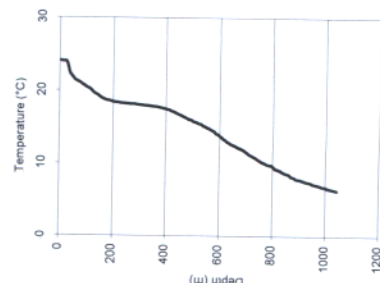
**CTD 012 S.Sarg.Sea-5 25°N**



**CTD 014 S.Sarg.Sea-6 25°N**

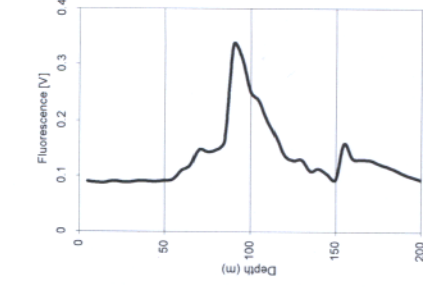
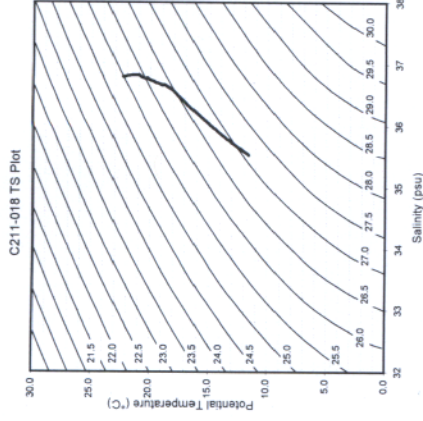
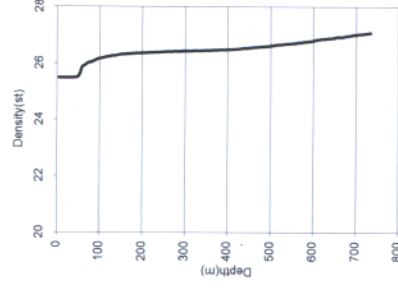
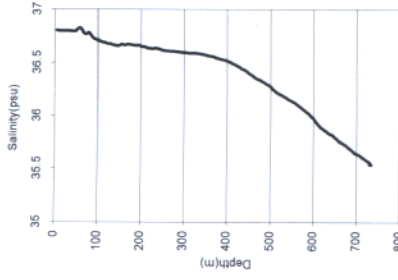
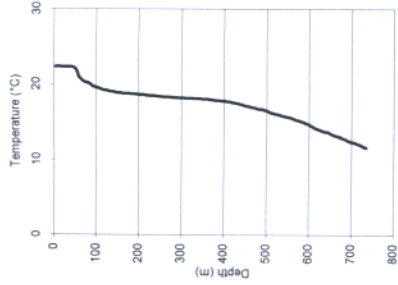


**CTD 017 S.Sarg.Sea-7 28°N**

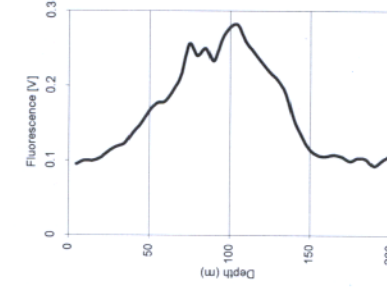
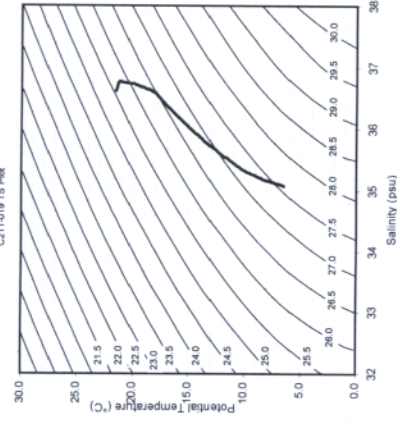
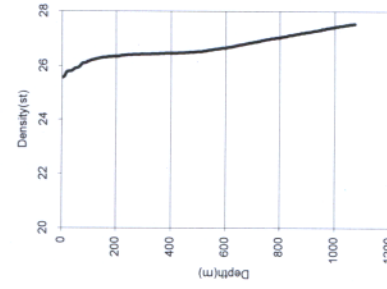
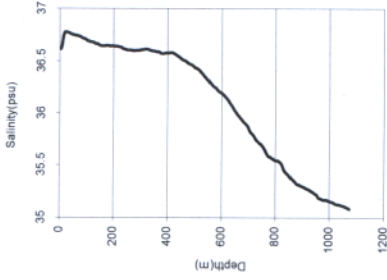
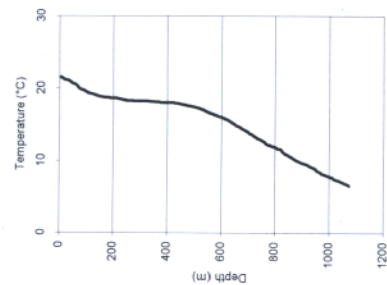




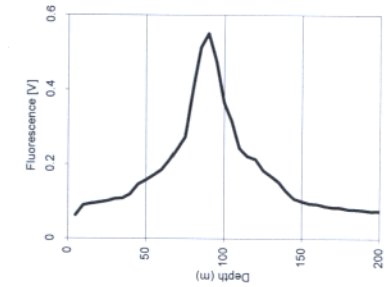
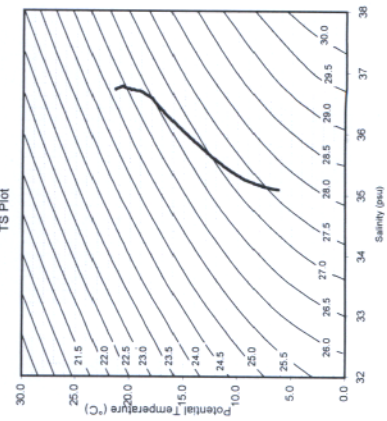
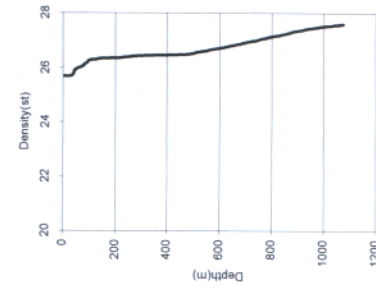
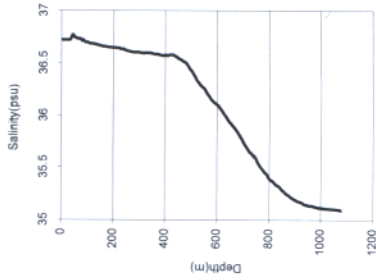
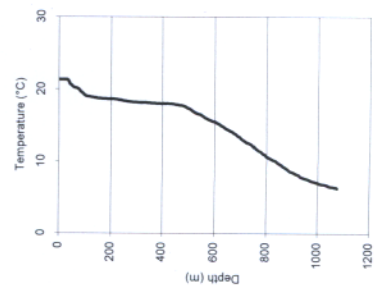
**CTD 018 N.Sarg.Sea-1 29°N**



**CTD 019 N.Sarg.Sea-2 30°N**

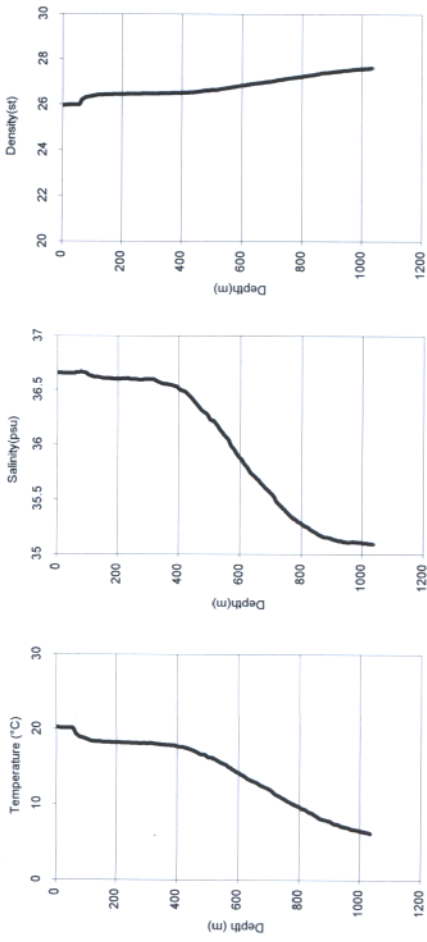


**CTD 021 N.Sarg.Sea-3 32°N**

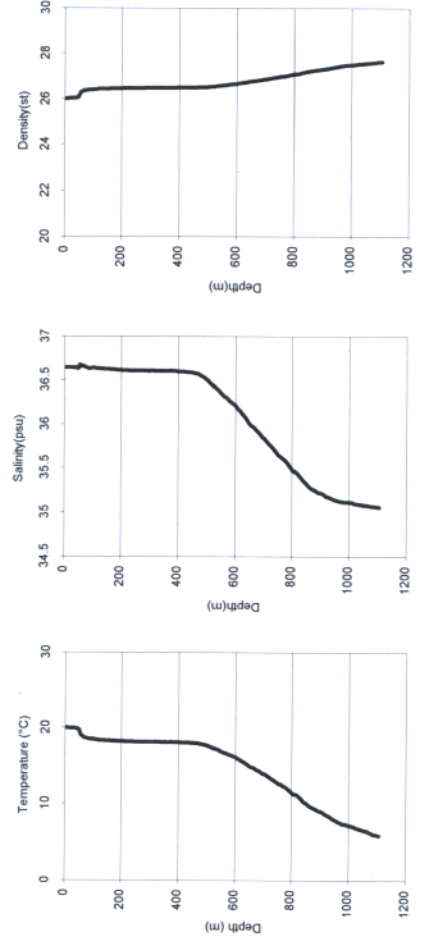




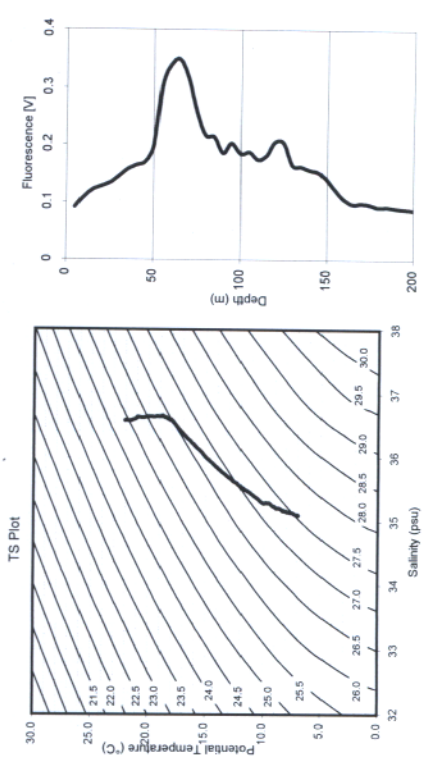
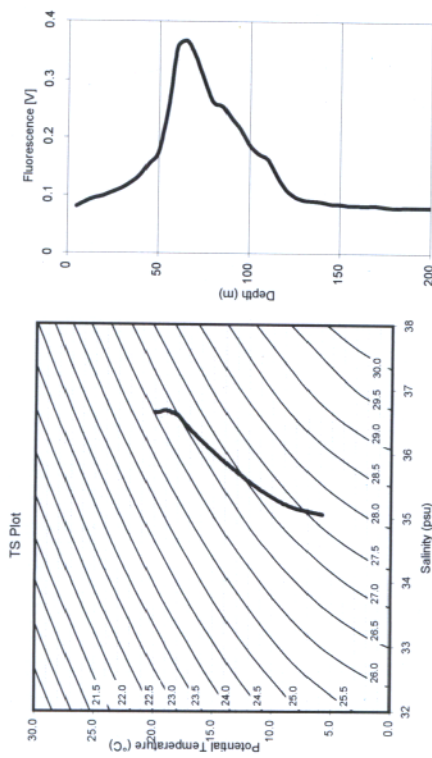
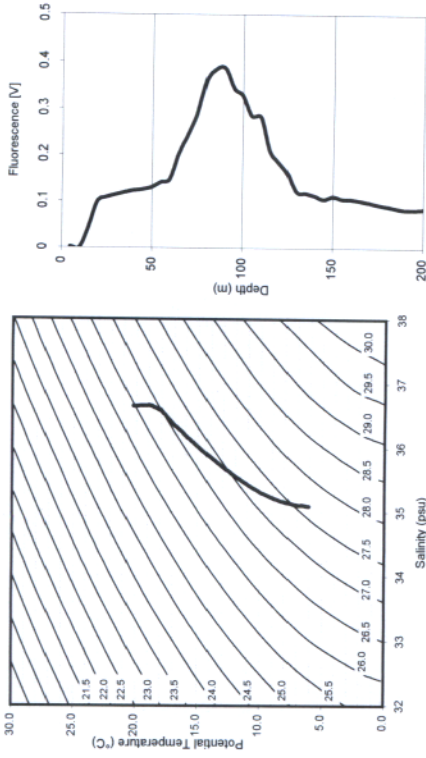
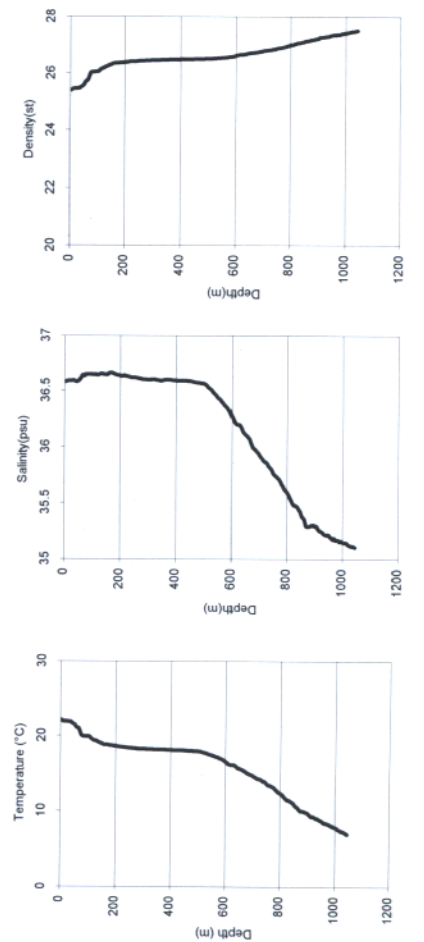
CTD 022 N.Sarg.Sea-4 33°N



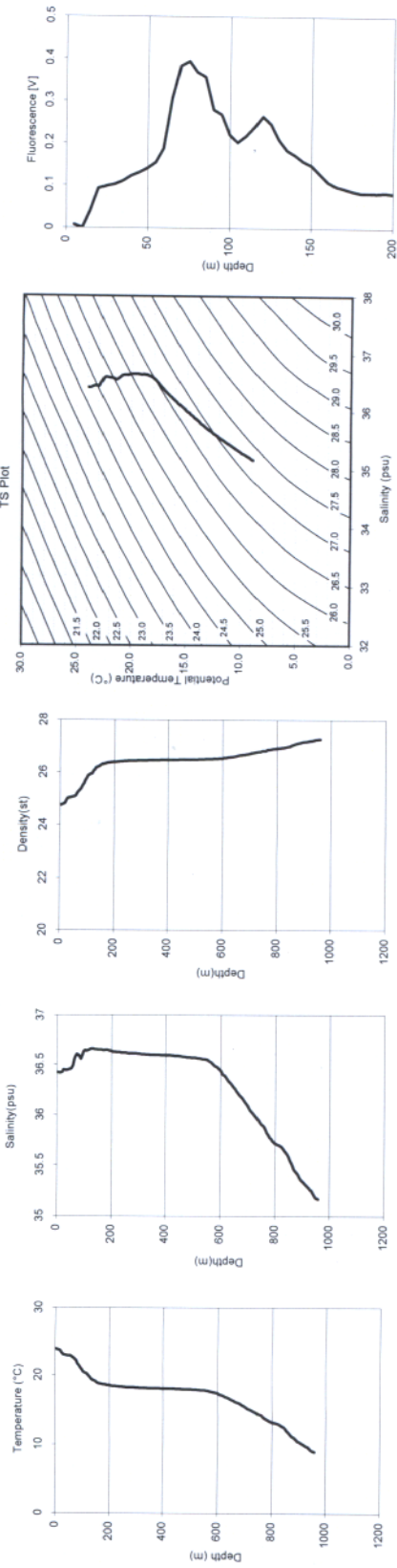
CTD 025 N.Sarg.Sea-5 34°N



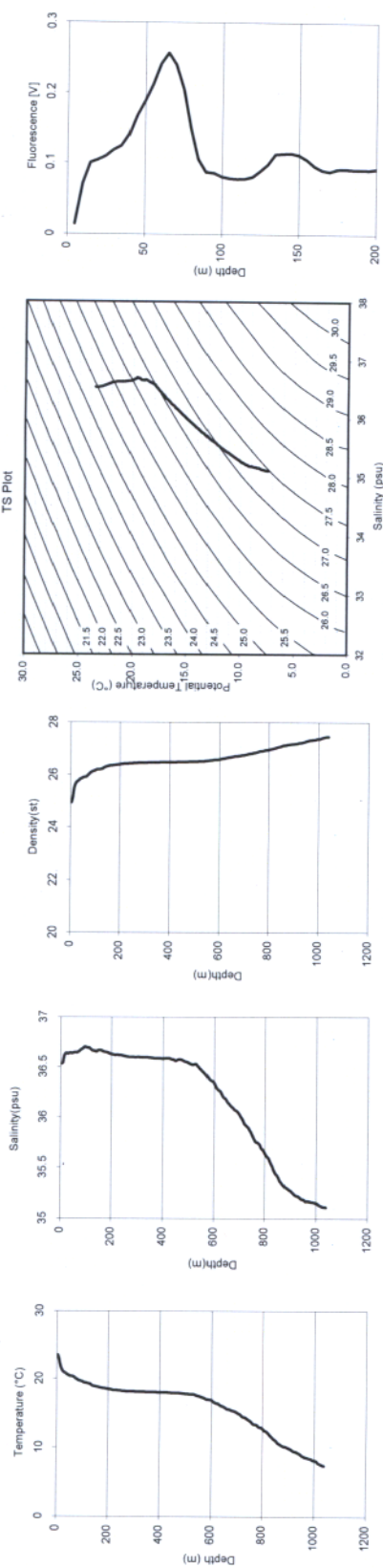
CTD 028 N.Sarg.Sea-6 35°N



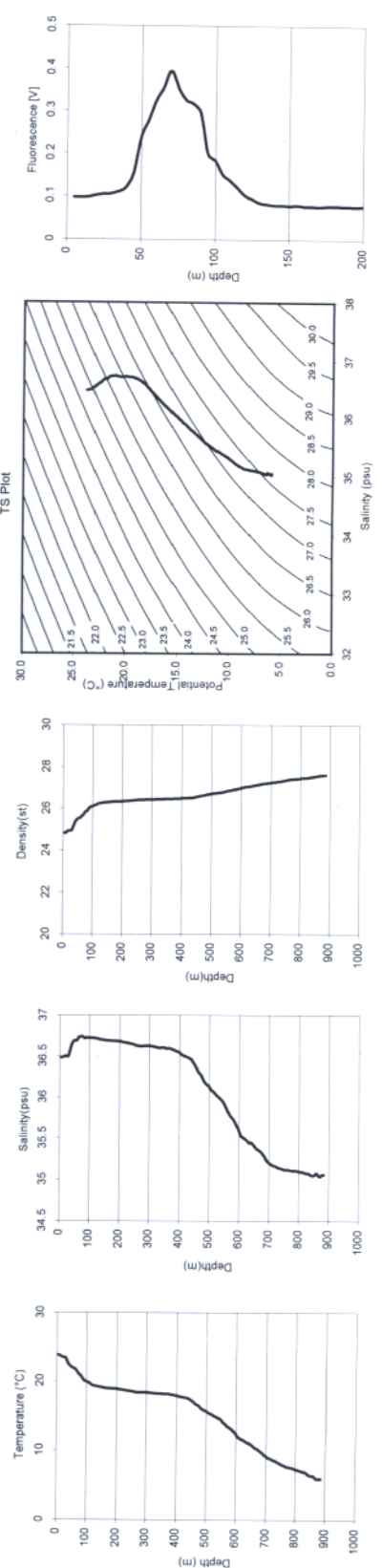
CTD 030 Gulf Stream -1 37°N



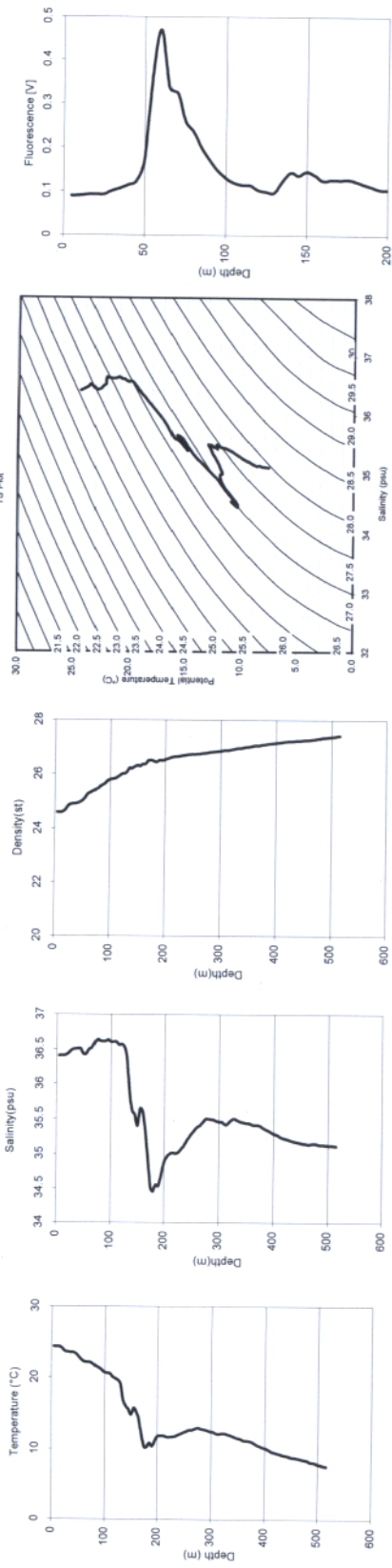
CTD 032 Gulf Stream/Sargasso Sea 37°N



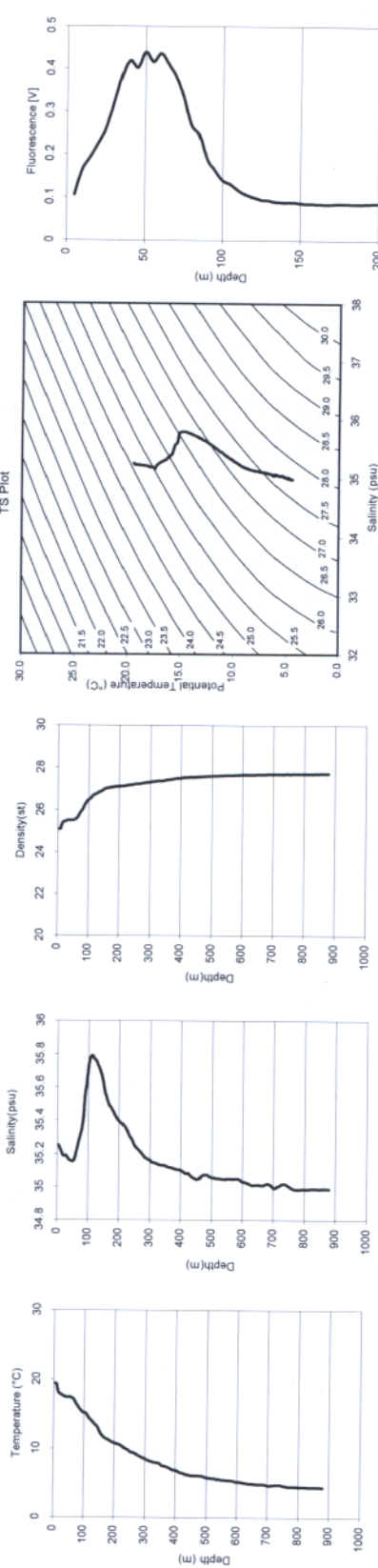
CTD 033 Gulf Stream-2 38°N



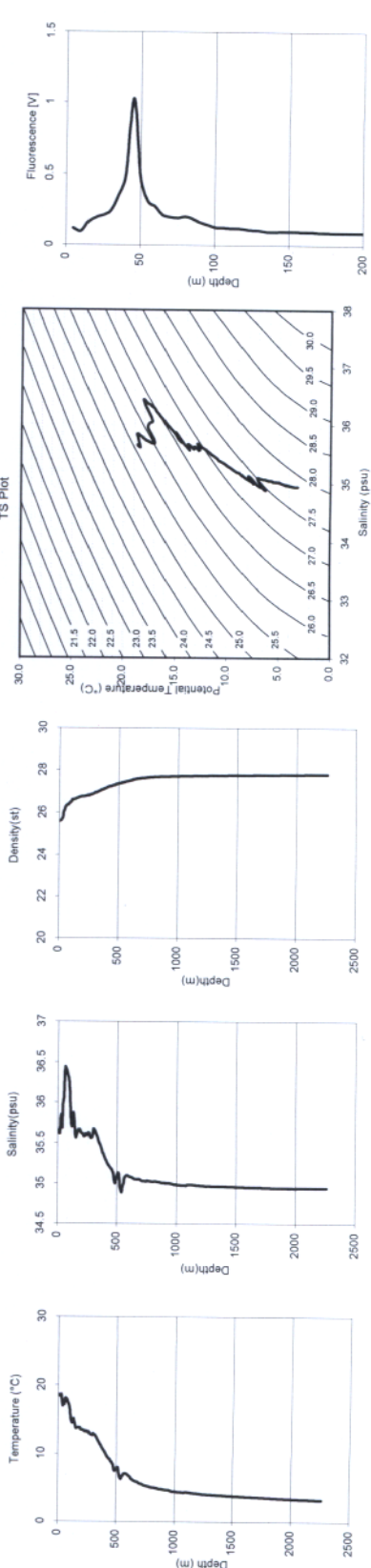
CTD 034 Gulf Stream-3 38°N



CTD 035 Slope Water-1 38°N

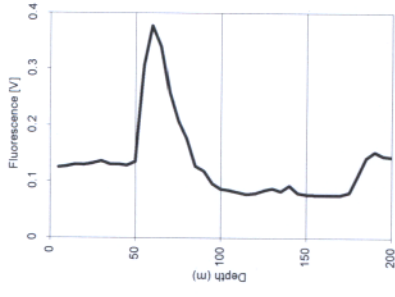
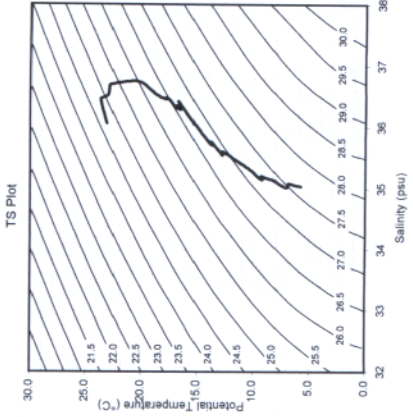
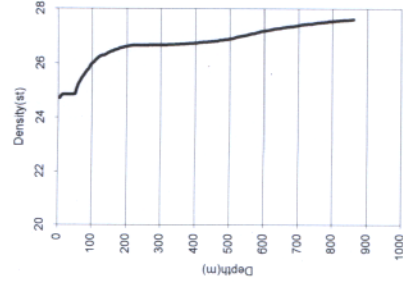
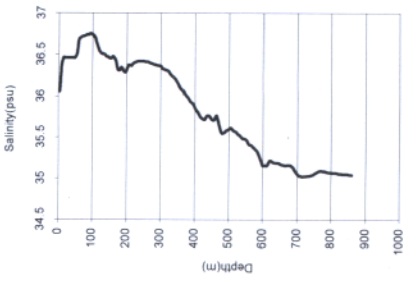
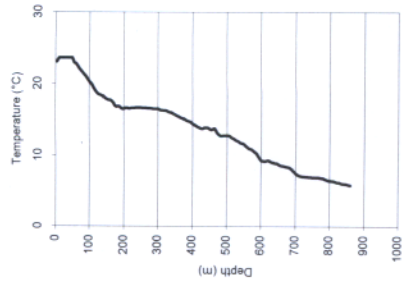


CTD 038 Slope Water-2 39°N

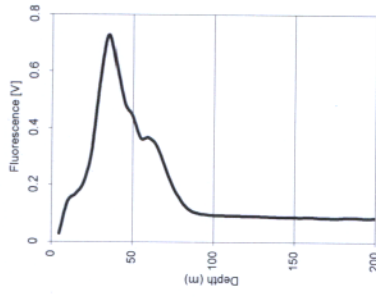
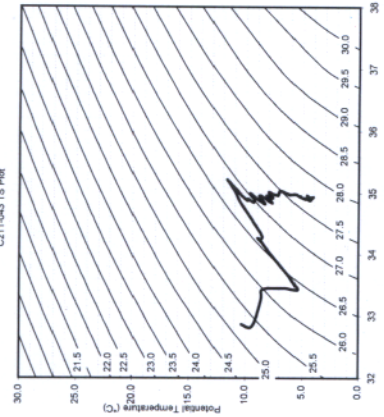
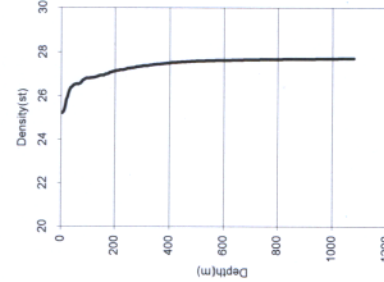
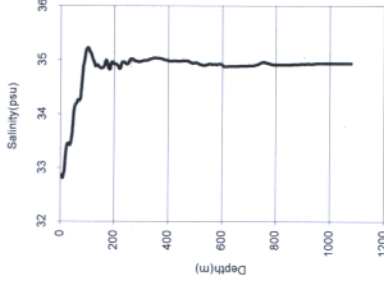
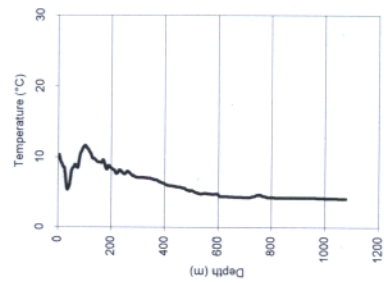


Appendix F. CTD Station Profiles (cont.)

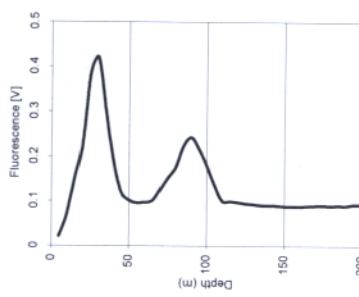
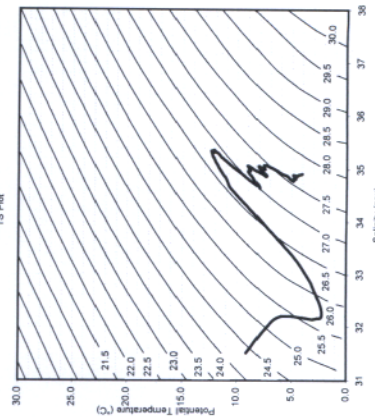
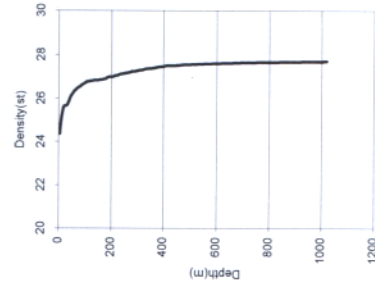
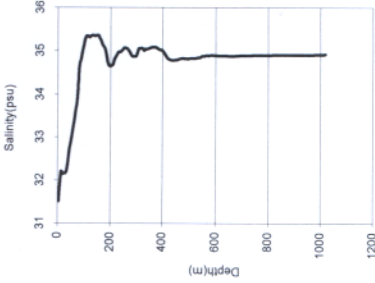
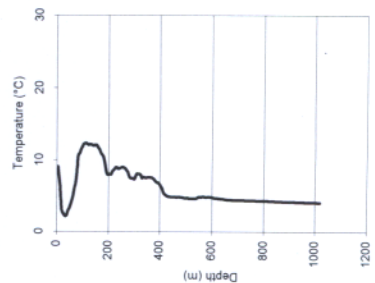
CTD 041 Gulf Stream 41°N



CTD 043 Slope Water-3 42°N

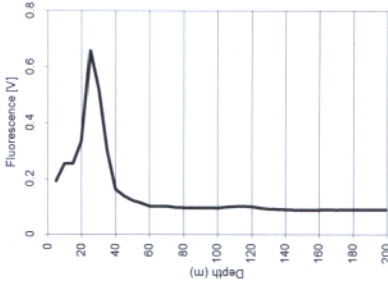
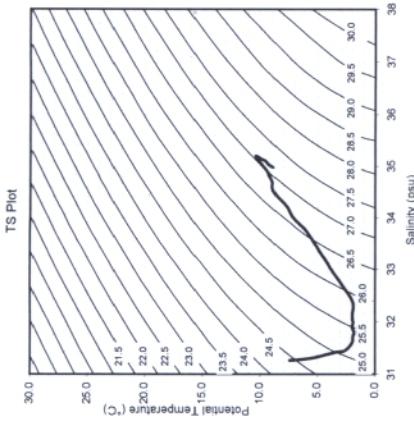
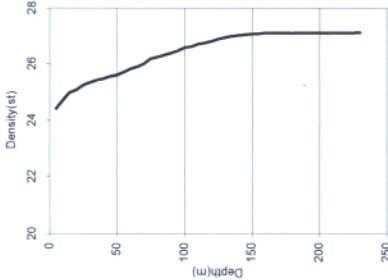
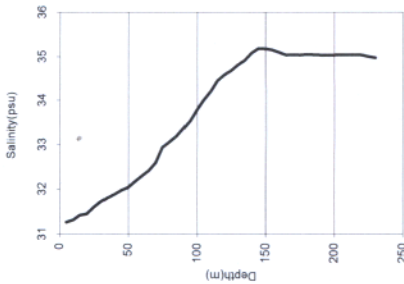
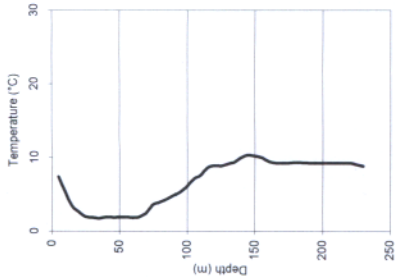


CTD 044 Slope Water-4 42°N

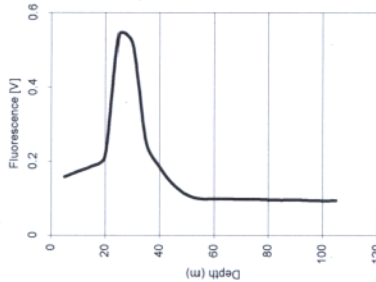
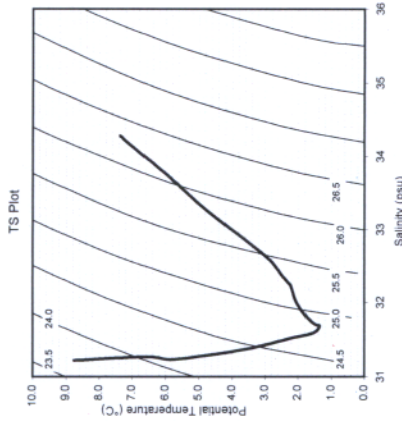
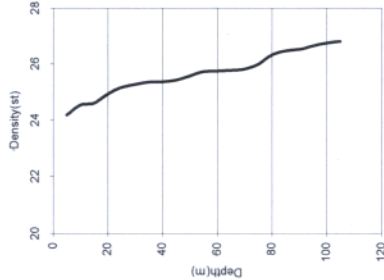
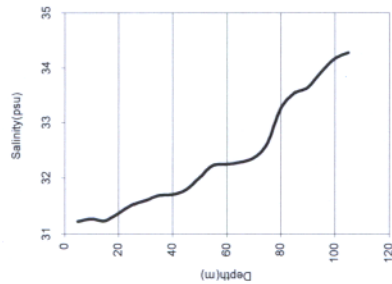
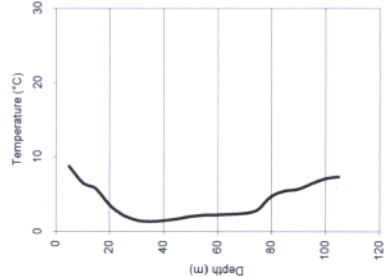




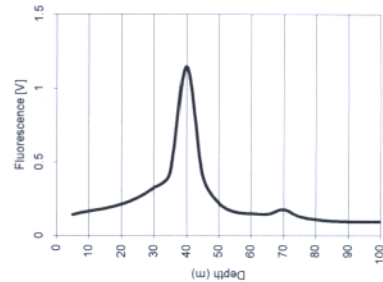
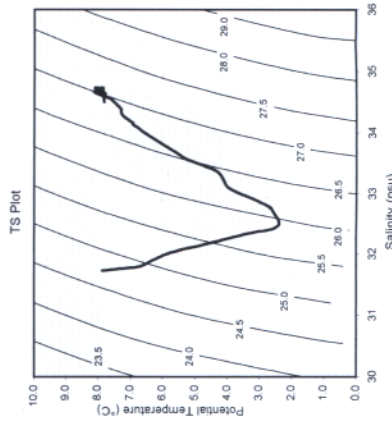
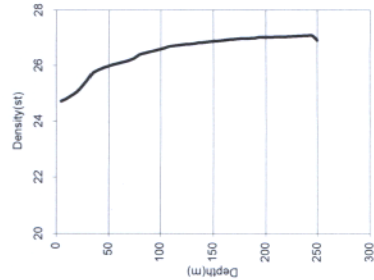
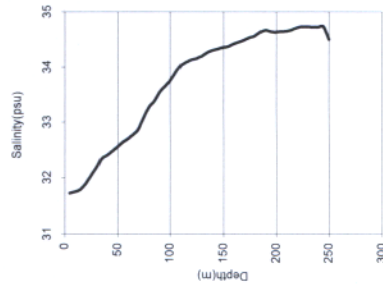
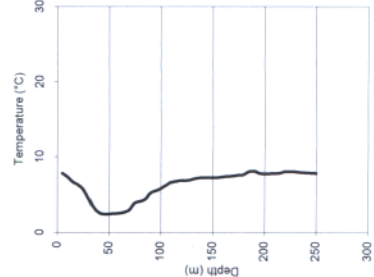
**CTD 045 Slope-Shelf Break 42°N**



**CTD 046 Shelf-1 42°N**

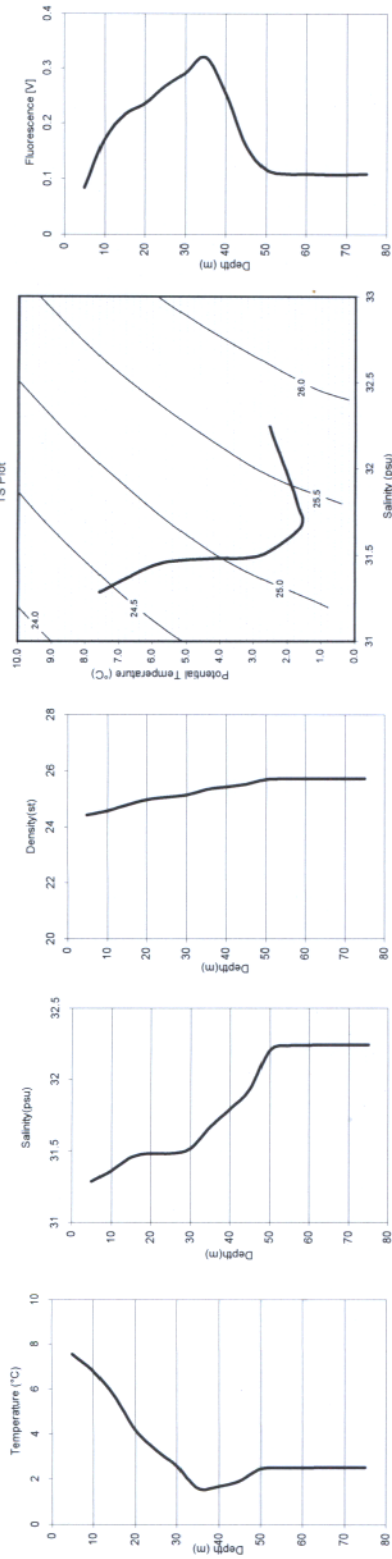


**CTD 048 Shelf-2 43°N**

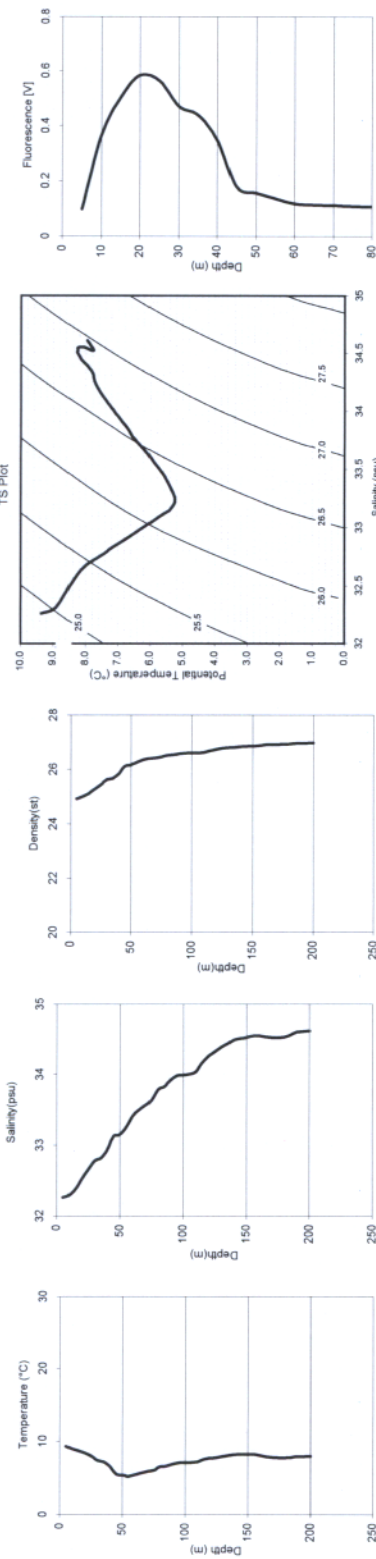




CTD 050 Shelf-3 43°N



CTD 052 Shelf-4 42°N



APPENDIX G. C-211 NET COLLECTIONS

NEUSTON DATA SUMMARY. White and black refer to nets which have been dyed (black) or left undyed (white).

C-211	STATION	DATE	TIME (local)	LOG (nm)	LAT. (°N)	LONG. (°W)	GENERAL LOCALE	SURF. TEMP. (°C)	PSU (PSU)	TOW DIST. (m)	ZOOP. VOL. (ml)	ZOOP. BIOMASS (ml/100m2)	PLASTIC (Pellets)	TAR (µg)	Sargassum natans (g)	LEPTO- CEPHALI	HALOBATES	PHYLLLO- SOMA
001-A (White)	001-A (White)	12-May-07	0048	52.4	18°40.6'	64°57.3'	Tropical North Atlantic	27.8	36.7	1308	13.0	0.9939	0	0.0	0	0	0	0
001-B (Black)	001-B (Black)	12-May-07	0120	52.7	18°39.8'	64°57.5'	Tropical North Atlantic	27.8	36.2	1343	14.0	1.0424	0	0.0	0	1	0	0
002	002	12-May-07	1133	96.3	19°25.7'	64°56.9'	Tropical North Atlantic	27.9	36.2	1852	5.0	0.2700	0	0.0	0	0	2	0
004-A (White)	004-A (White)	13-May-07	0010	149.0	20°16.8'	64°57.0'	Southern Sargasso Sea	27.4	36.3	2281	4.0	0.1754	0	0.0	0	0	1	0
004-B (Black)	004-B (Black)	13-May-07	0044	150.0	20°16.2'	64°59.3'	Southern Sargasso Sea	27.3	36.3	1852	5.0	0.2700	0	0.0	0	0	10	0
005	005	13-May-07	1234	177.5	20°40.5'	65°4.4'	Southern Sargasso Sea	27.5	36.3	2077	5.0	0.2407	0	0.0	0	0	22	0
007	007	14-May-07	0001	216.5	21°16.6'	64°57.1'	Southern Sargasso Sea	27.1	36.4	2786	22.0	0.7897	0	0.0	0	40 g	18	0
008	008	14-May-07	1200	237.2	21°38.9'	64°48.9'	Southern Sargasso Sea	27.4	36.5	2309	11.0	0.4764	23	0.0	<1 g	1.5 g	33	0
009-A (White)	009-A (White)	15-May-07	0000	270	22°17.3'	64°46.2'	Southern Sargasso Sea	26.7	36.1	1852	13	0.7019	0	0.0	0	560	72	21
009-B (Black)	009-B (Black)	15-May-07	0035	271.2	22°18.5'	64°46.3'	Southern Sargasso Sea	26.7	36.1	1482	361.0	24.3656	0	0.0	0	79	0	47
010	010	15-May-07	1156	318.9	23°21.0'	64°53.8'	Southern Sargasso Sea	26.0	36.2	1741	2.0	0.1149	2	0.0	0	5	0	3
011	011	16-May-07	1220	434.3	25°16.2'	65°35.2'	Southern Sargasso Sea	25.2	36.6	1430	3.0	0.2098	0	0.0	0	0	0	13
013-A (White)	013-A (White)	17-May-07	0046	467.1	25°40.1'	65°40.9'	Southern Sargasso Sea	24.2	35.9	1710	11.0	0.6433	0	0.0	0	140	0	0
013-B (Black)	013-B (Black)	17-May-07	0125	467.3	25°38.8'	65°41.2'	Southern Sargasso Sea	24.2	36.2	1877	10.0	0.5328	0	0.0	0	110	1	0
016	016	18-May-07	0016	549.2	26°45.6'	65°40.2'	Southern Sargasso Sea	24.9	36.4	2037	3.5	0.1718	2	0.0	0	400	3	0
017	017	18-May-07	1158	622.9	28°3.8'	65°20.4'	Southern Sargasso Sea	24.2	36.5	1976	2.0	0.1012	0	0.0	0	1100	0	2
018-A (White)	018-A (White)	18-May-07	2345	686.3	29°68.4'	65°5.0'	Northern Sargasso Sea	22.5	36.8	1581	6.7	0.4238	1	0.0	0	10	0	1
018-B (Black)	018-B (Black)	18-May-07	0022	686.7	29°7.6'	65°6.0'	Northern Sargasso Sea	22.6	36.7	1713	2.0	0.1168	0	0.0	0	0	2	0
020	020	19-May-07	2113	764.8	30°30.9'	64°51.4'	Northern Sargasso Sea	21.4	36.6	2245	11.0	0.4900	0	0.0	0	3	0	1
022	022	25-May-07	1201	696.5	33°25.8'	65°48.2'	Northern Sargasso Sea	20.6	36.7	2085	24.0	1.1511	0	0.0	0	0	1	2
024-A (White)	024-A (White)	26-May-07	0034	1008.5	34°3.2'	65°18.9'	Northern Sargasso Sea	21.3	36.8	2427	6.0	0.2472	0	0.0	0	0	0	0
024-B (Black)	024-B (Black)	26-May-07	0107	1009.3	34°4.6'	65°18.7'	Northern Sargasso Sea	21.0	36.7	2412	16.0	0.6633	0	0.0	0	0	0	0
025	025	26-May-07	1150	1048.2	34°49.6'	65°0.1'	Northern Sargasso Sea	20.1	36.7	2492	30.0	1.2039	0	0.0	0	0	0	0
027 A (White)	027 A (White)	27-May-07	0020	1091.7	35°29.9'	64°38.7'	Northern Sargasso Sea	23.3	36.5	1304	86.0	6.5973	0	0.0	0	0	0	0
027 B (Black)	027 B (Black)	27-May-07	0054	1092.8	35°30.5'	64°38.3'	Northern Sargasso Sea	23.3	36.5	955	25.0	2.6173	0	0.0	0	0	0	0
028	028	27-May-07	1235	1115.9	35°43.7'	64°22.1'	Northern Sargasso Sea	22.7	36.6	935	34.0	3.6364	2	0.0	<1 g	0	0	0
029 A (White)	029 A (White)	28-May-07	0005	1148.1	37°13.8'	64°4.1'	Northern Sargasso Sea	22.4	36.2	2242	-	-	0	0.0	0	0	0	0
029 B (Black)	029 B (Black)	28-May-07	0040	1148.5	36°15.1'	64°3.9'	Northern Sargasso Sea	22.5	36.2	2227	-	-	0	0.0	0	0	0	0
031	031	28-May-07	0917	1201.2	37°14.7'	63°41.2'	Gulf Stream	23.9	36.6	2166	22.0	1.0157	0	0.0	0	0	0	0
035	035	29-May-07	1242	1317.7	38°29.8'	64°24.1'	Slope Water	20.1	35.4	1600	1.0	0.0625	0	0.0	0	0	0	0
037 A (White)	037 A (White)	30-May-07	0012	1373.3	39°3.3'	63°31.2'	Gulf Stream/Slope Water	23.4	36.4	2047	35.0	1.7098	0	0.0	0	0	0	0
037 B (Black)	037 B (Black)	30-May-07	0049	1374.4	39°3.1'	63°29.7'	Gulf Stream/Slope Water	23.6	36.4	2188	21.0	0.9598	0	0.0	0	0	0	0
038	038	30-May-07	1227	1397.7	39°11.1'	63°38.8'	Slope Water	18.2	35.4	857	6.0	0.7001	0	0.0	0	0	0	0
040	040	31-May-07	0008	1429.1	39°22.7'	64°38.6'	Slope Water	19.3	35.8	340	-	-	0	0.0	0	0	0	0
042 A (White)	042 A (White)	1-Jun-07	0001	1553.5	41°38.2'	63°37.7'	Slope Water	10.6	32.3	1242	50.0	4.0258	0	0.0	0	0	0	0
042 B (Black)	042 B (Black)	1-Jun-07	0037	1554.5	41°37.5'	63°38.2'	Slope Water	10.6	32.4	1410	70.0	4.9645	0	0.0	0	0	0	0
C211-043 NT	C211-043 NT	1-Jun-07	1219	1597.8	42°21.6'	63°49.3'	Slope Water	10.5	32.7	1852	1.0	0.0540	0	1.0	0	0	0	0
047	047	2-Jun-07	0038	1635.6	42°56.3'	63°56.3'	Shelf Water	9.0	31.2	1836	18.0	0.9804	0	0.0	0	0	0	0
049	049	8-Jun-07	0016	1809.0	43°20.4'	64°17.9'	Continental Shelf	9.1	31.3	2078	11.0	0.5294	1	0.0	0	0	0	0
050	050	8-Jun-07	1133	1836.1	43°0.9'	64°42.9'	Continental Shelf	8.6	31.3	1972	0.5	0.0254	2	0.0	0	0	0	0
051	051	8-Jun-07	2356	1873.0	42°34.7'	65°24.0'	Continental Shelf	7.9	31.7	2598	-	-	0	0.0	0	0	0	0

## APPENDIX G (cont.) C-211 NET COLLECTIONS

C-207 METER NET AND 2-METER NET COLLECTIONS												
STATION	DATE	TIME	LOG LAT.	LONG.	GENERAL LOCALE	NET TYPE / #	TOW TYPE	MESH SIZE	DEPTH	TOW VOL.	ZOOPLANK. VOL.	ZOOPLANK. DENSITY
		(local)	(NM)	(°N) (°W)				(µ)	(m)	(m <sup>3</sup> )	(ml)	(ml/100m)
C-211												
003	12-May-07	2243	135.6	20°04.8'	64°57.3'	Southern Sargasso Sea	2m/#1	333	144	4752	50	1.1
							2m/#2	1000	137	931	27	2.9
							1m	200	0-50	-	-	-
005	13-May-07	1003	177.5	20°40.8'	65°1.3'	Southern Sargasso Sea	1m/#1	1000	0-103	866	11	1.3
006	13-May-07	2044	205.5	21°7.8'	64°57.7'	Southern Sargasso Sea	1m/#2	333	0-95	1134	40	3.5
							1m/#3	200	0-87	716	22	3.1
012	16-May-07	2126	466.7	25°44.0'	65°36.1'	Southern Sargasso Sea	2m/#1	333	0-154	4918	38	0.8
							2m/#2	1000	0-144	1007	44	4.4
							1m	200	0-50	-	-	-
014	17-May-07	1200	490	25°43.2'	65°45.4'	Southern Sargasso Sea	1m/#1	1000	0-72	1941	11.5	0.6
015	17-May-07	2046	534.7	26°30.9'	65°40.2'	Southern Sargasso Sea	1m/#2	333	0-68	1467	23	1.6
							1m/#3	200	0-64	1287	34	2.6
022	25-May-07	1115	969.3	33°26.5'	65°48.9'	Northern Sargasso Sea	1m	200	0-50-100	-	-	-
023	25-May-07	2335	997.0	33°51.7'	65°24.8'	Northern Sargasso Sea	1m/#1	333	0-75	1535	140	9.1
							1m/#2	200	0-72	1226	40	3.3
025	26-May-07	1100	1048.8	34°49.4'	65°1.0'	Northern Sargasso Sea	1m	1000	0-120	960	60	6.3
026	26-May-07	2042	1079.5	35°18.1'	64°40.5'	Northern Sargasso Sea	1m/#1	333	0-116	930	135	14.5
							1m/#2	200	0-112	838	90	10.7
028	27-May-07	1110	1115.8	35°45.6'	64°22.8'	Northern Sargasso Sea	1m	200	0-50	-	-	-
036	29-May-07	2056	1359.9	38°57.3'	63°43.1'	Slope water	1m	333	0-89	1167	190	16.3
039	30-May-07	2113	1423.2	39°21.4'	64°27.0'	Slope water	1m/#1	1000	0-76	1374	30	2.2
							1m/#2	333	0-72	977	72	7.4
							1m/#3	200	0-68	905	85	9.4
045	1-Jun-07	2130	1626.5	42°47.7'	63°57.7'	Slope water	1m	333	0-89	1005	445	44.3

## APPENDIX G (continued)

## C211 PHYTOPLANKTON NET COLLECTIONS

STATION	DATE	LOG LAT.	LONG.	DEPTH	GENERAL LOCALE	TEMP.	SAL.
C-211		(NM)	(°N) (°W)	(m)		(°C)	(PSU)
005	13-May-07	177.5	20°40.8 65°1.3'	0-5	Southern Sargasso Sea	27.8	35.8
014	17-May-07	489.9	25°48.6 64°43.6'	0-5	Southern Sargasso Sea	24.3	36.6
028	27-May-07	1115.8	35°48.4 64°23.7'	0-5	Northern Sargasso Sea	22.1	36.6
041	31-May-07	1490.0	40°37.6 64°5.0'	0-5	Gulf Stream/Slope Water	23.7	36.5
043	1-Jun-07	1597.6	42°21.6 63°47.0'	0-5	Slope Water	10.2	32.9

## APPENDIX H. C-211 BATHYPHOTOMETER DEPLOYMENTS

STATION	DATE	LOG LAT.	LONG.	WireOut	GENERAL LOCALE	TEMP.	SAL.	Fluorescence	Moon phase
C-211		(NM)	(°N) (°W)	(m)		(°C)	(PSU)	(in vivo)	
001	11-May-07	51.9	18°42.0 64°56.2'	100	Tropical North Atlantic	27.9	36.0	414	Waning crescent
012	16-May-07	466.8	25°44.9 65°34.2'	100	Southern Sargasso Sea	24.4	36.5	240	New