

CRUISE REPORT

C275

SCIENTIFIC ACTIVITIES

Woods Hole MA –Carriacou-St. George's, Grenada

October 20-November 20, 2017

SSV Corwith Cramer

SEA Semester[®]



Sea Education Association
Woods Hole, Massachusetts

TABLE OF CONTENTS

	<u>Page</u>
Table of Contents and Data Availability	2
Data Description	3
Figure 1. Cruise track of C275	3
Figure 2. Locations of the CTDs on C275.	4
Figure 3. CTD Temperature Cross Section on C275.	4
Figure 4. CTD Salinity Cross Section on C275 .	4
Figure 5. CTD Density Cross Section on C275.	5
Figure 6. <i>In situ</i> Dissolved Oxygen Cross Section on C275.	5
Figure 7. Saturation (%) of Dissolved Oxygen Cross Section on C275.	5
Figure 8. <i>In situ</i> Chlorophyll <i>a</i> Fluorescence Cross Section on C275.	6
Figure 9. CTD Density-200m Cross Section on C275.	6
Figure 10. <i>In situ</i> Dissolved Oxygen Saturation-200m Cross Section on C275.	6
Figure 11. Surface Station derived values of a) Phosphate and b) Nitrate.	7
Figure 12. Surface Station derived values of Chlorophyll.	7
Figure 13. Surface-pumped <i>in situ</i> measurements on C275.	8
Figure 14. ADCP derived current magnitude and direction.	9
Figure 15. Surface a) Temperature and b) Salinity along the cruise track of C275.	9
Table 1. C275 Noon and Midnight Positions.	10
Table 2. Ship's Complement for SSV <i>Corwith Cramer</i> Cruise C275.	12
Table 3. Student Projects Aboard C275.	12
Data and Sampling Appendices	
A. C275 Scientific Station Summary	13
B. C275 Surface Station Information	14
C. C275 Hydrocast Data	16
D. C275 CTD and Secchi Disc Station Summary	18
E. C275 CTD Data Station Profiles	19
F. C275 Net Collections	31

This document should be cited as:

Lea, Charles E., 2017. Final report for S.E.A. cruise C275. Sea Education Association, Woods Hole, MA 02543.
www.sea.edu.

To obtain unpublished data, contact the Chief Scientist or SEA data archivist:

Data Archivist
Sea Education Association
P.O. Box 6
Woods Hole, MA. 02543
Phone: 508.540.3954
Fax: 508.457.4673
E-mail: data-archives@sea.edu
Web: www.sea.edu

Data Description

This cruise report provides a record of data collected aboard the SSV *Corwith Cramer* during Cruise C275 (U.S. State Department Cruise(2017-41). The cruise track of C275 (Figure 1, Table 1) was a passage from Woods Hole to St. George Grenada. Aspects of the western North Atlantic as recorded on C275 including currents, temperature, salinity, chlorophyll, are displayed in Figures 2-15. The cruise participants are listed in Table 2. Student projects aboard C275 are listed in Table 3.

During the six week voyage we collected samples or data at 38 discrete oceanographic stations (Appendix A), and 85 surface stations (Appendix B). Chemical properties of seawater with depth are contained in Appendix C. The CTD and Secchi disc information is listed in Appendix D and the profiles are illustrated in Appendix E. Lists of biological net samples are contained in Appendix F.

Figure 1. Midnight and noon positions on SSV *Corwith Cramer* cruise 275

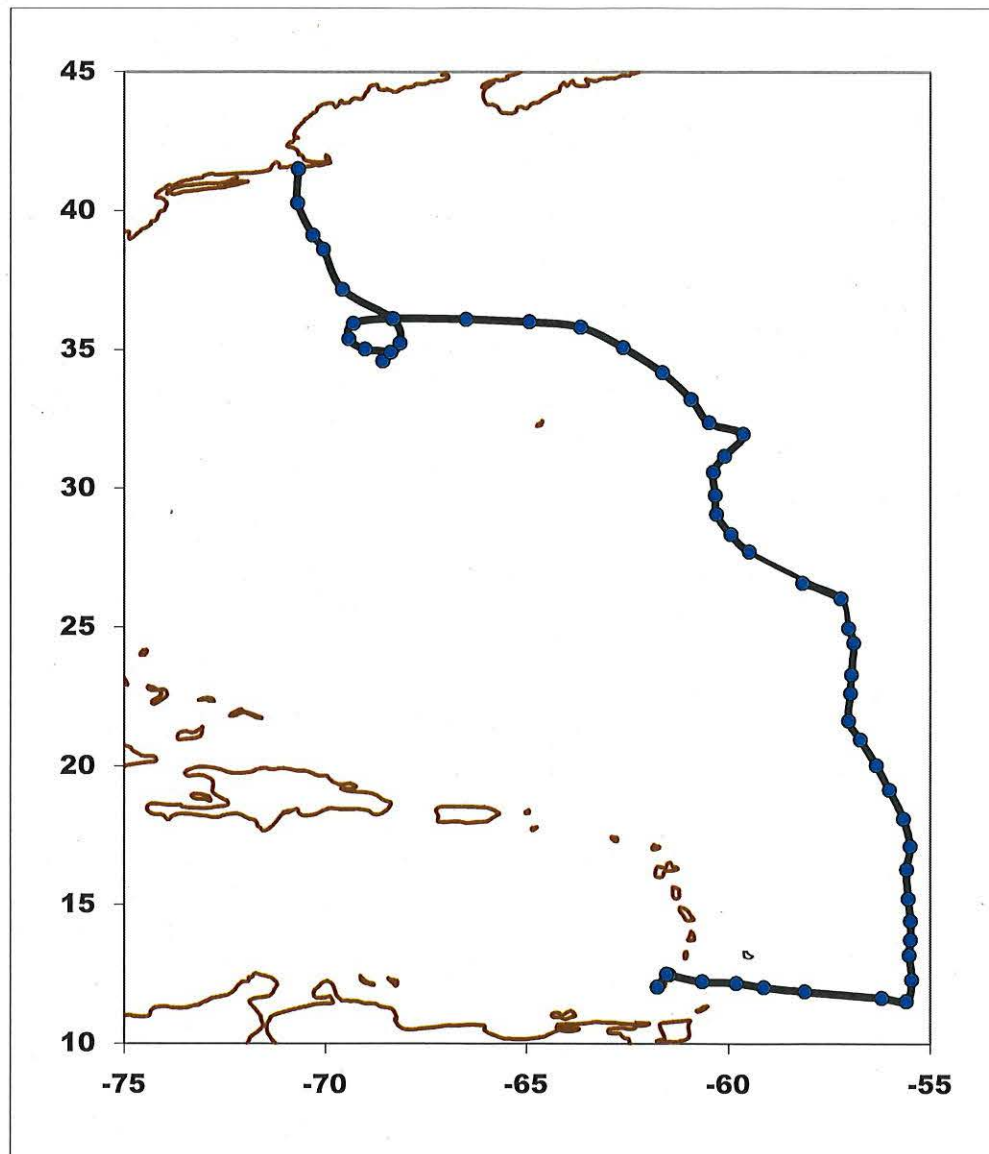


Figure 2. Locations of the CTDs on C275.

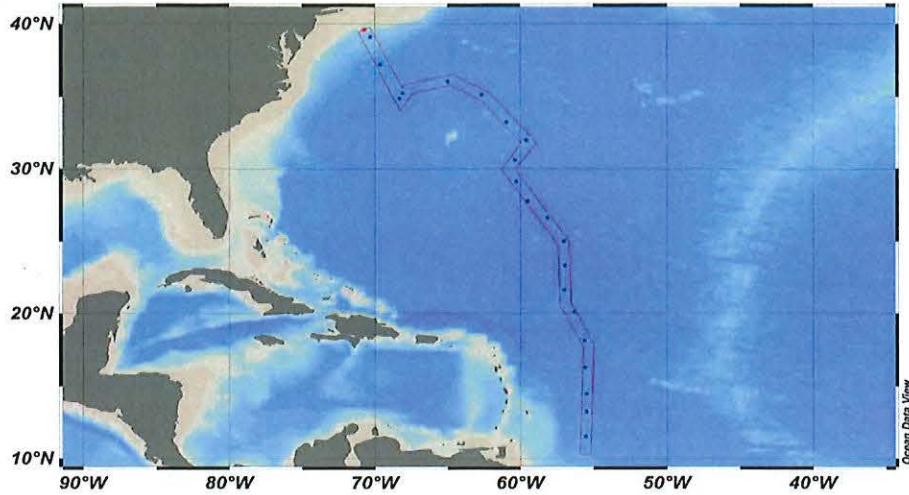


Figure 3. CTD Temperature Cross Section on C275. Station number and degrees North latitude are indicated as are the general oceanic areas.

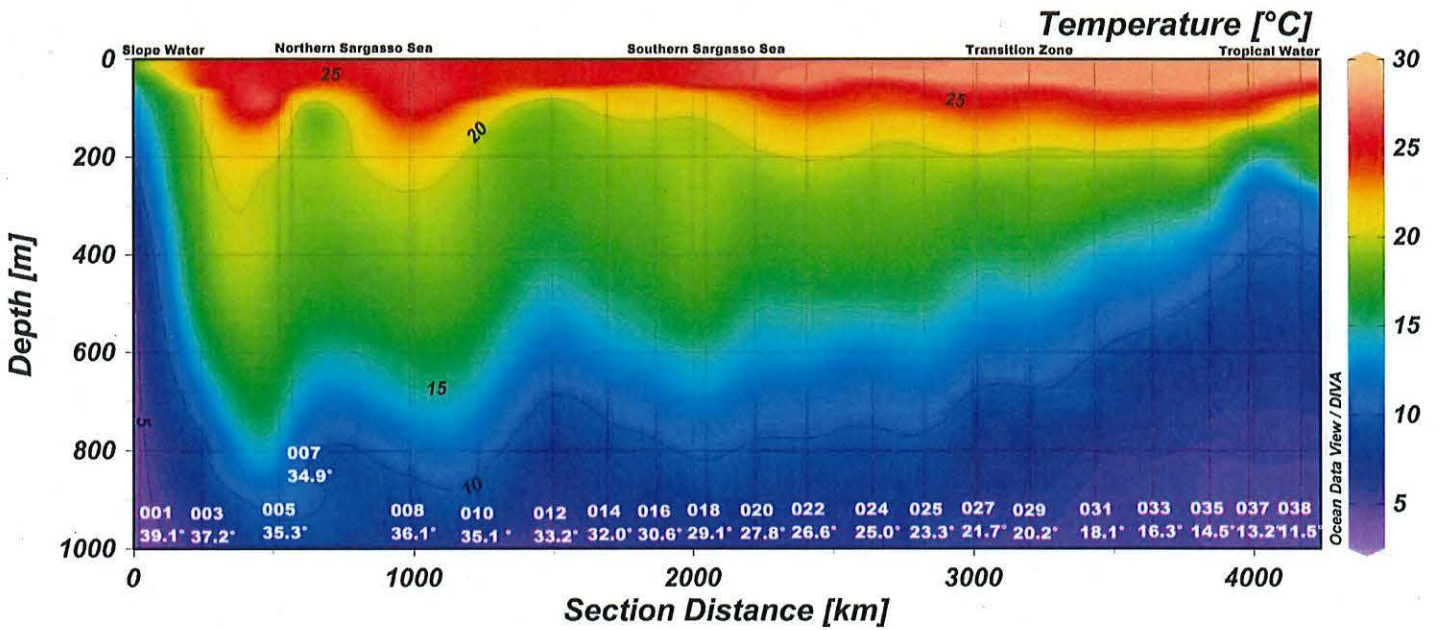


Figure 4. CTD Salinity Cross Section on C275.

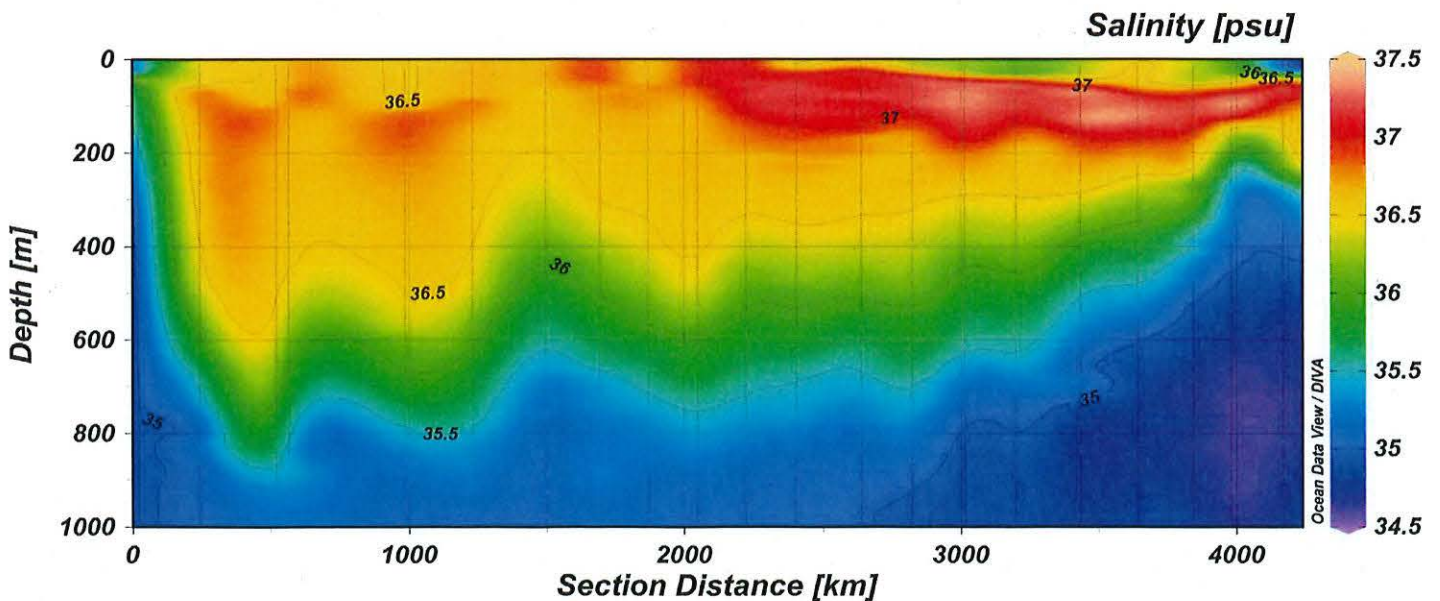


Figure 5. CTD Density Cross Section on C275.

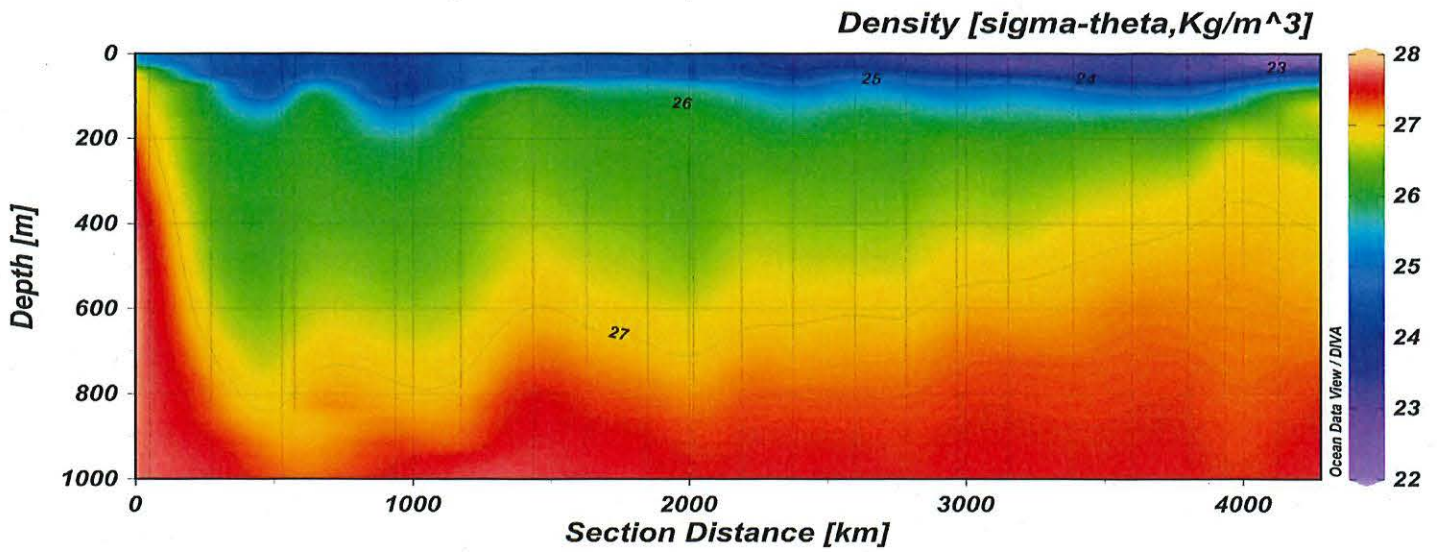


Figure 6. *In situ* Dissolved Oxygen Cross Section on C275.

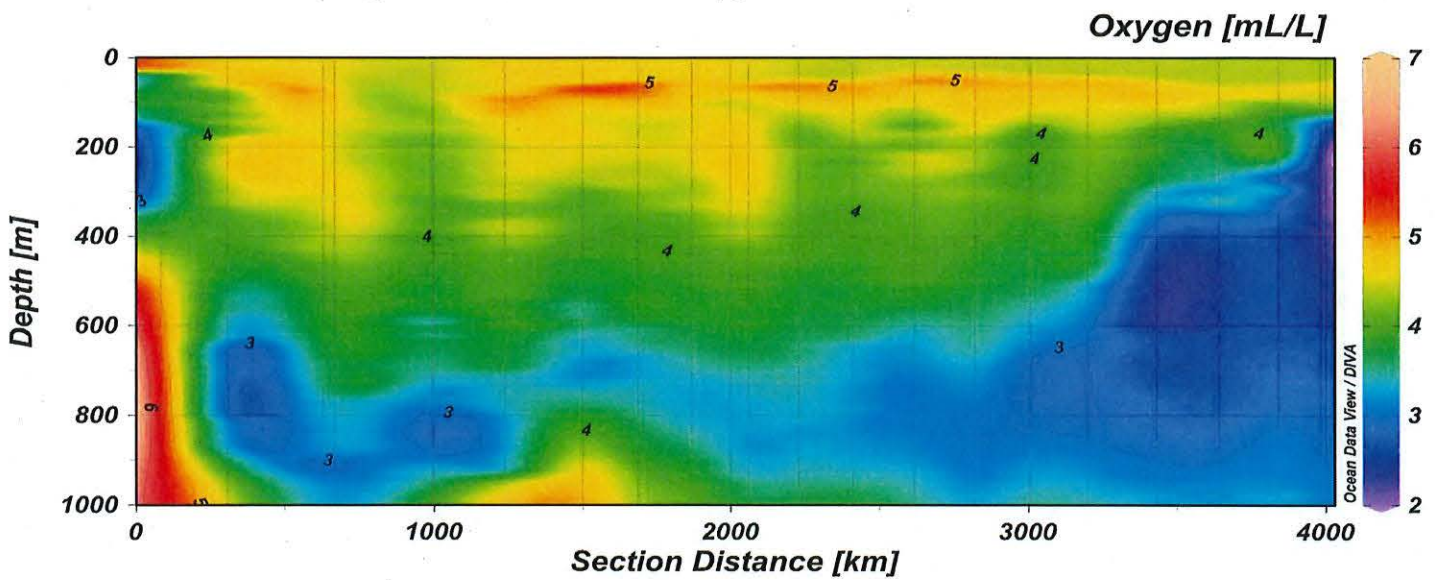


Figure 7. Saturation (%) of Dissolved Oxygen Cross Section on C275.

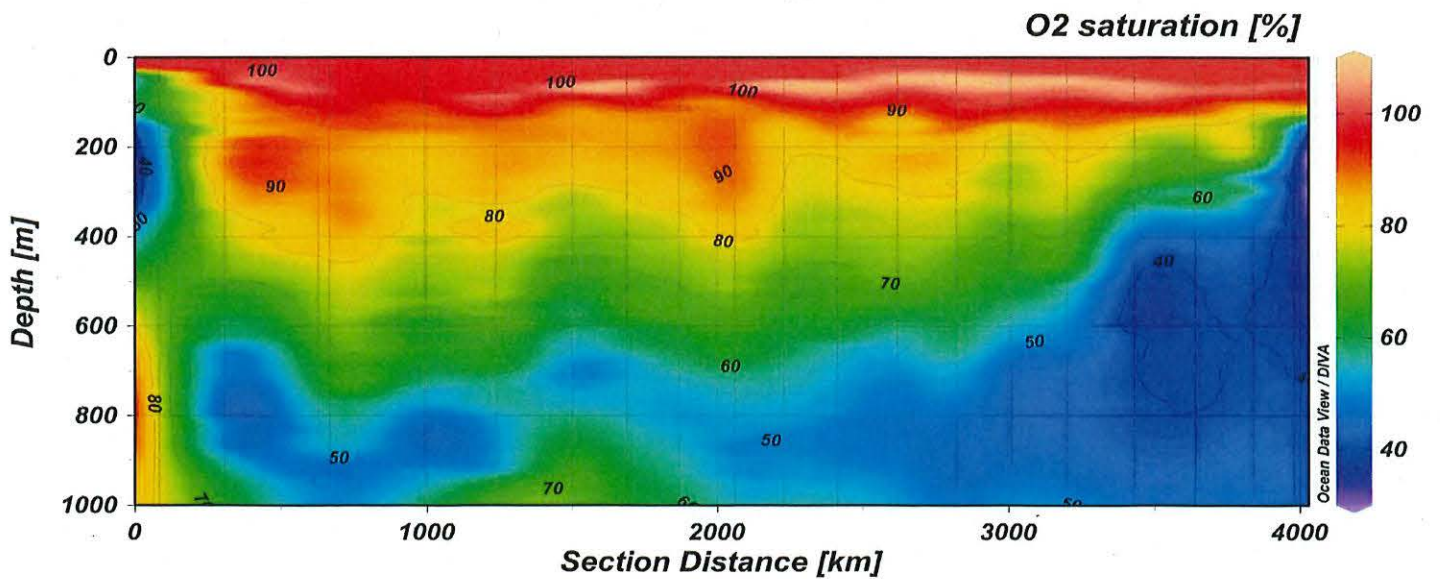


Figure 8. *In situ* Chlorophyll *a* Fluorescence Cross Section on C275.

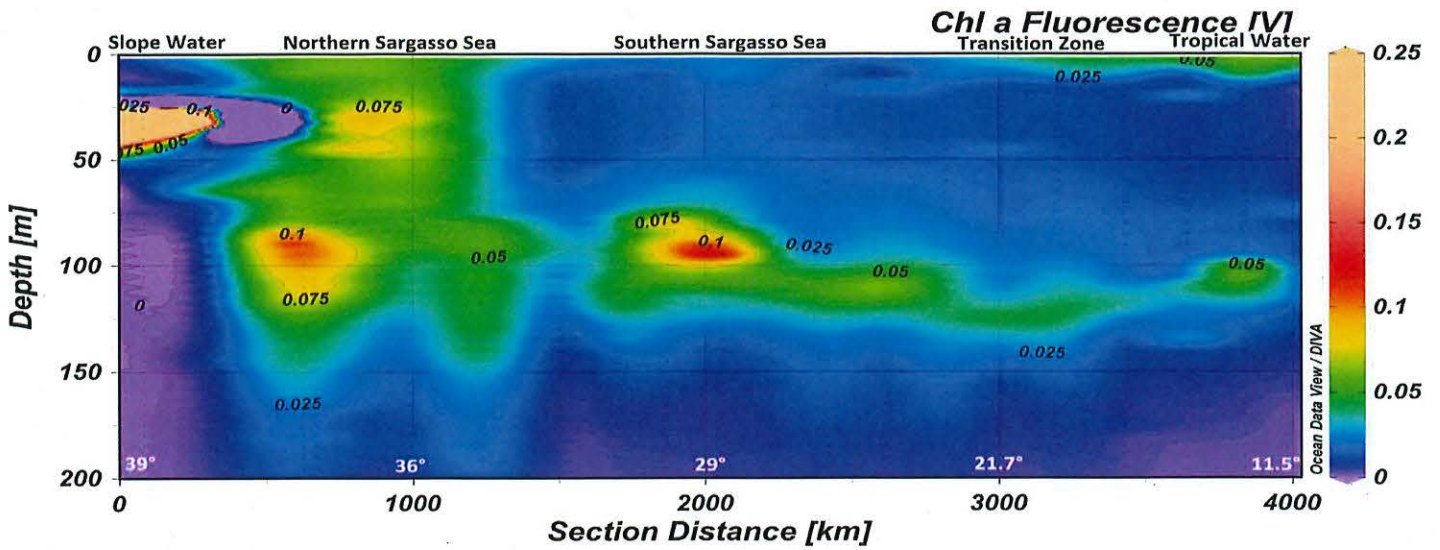


Figure 9. CTD Density-200m Cross Section on C275.

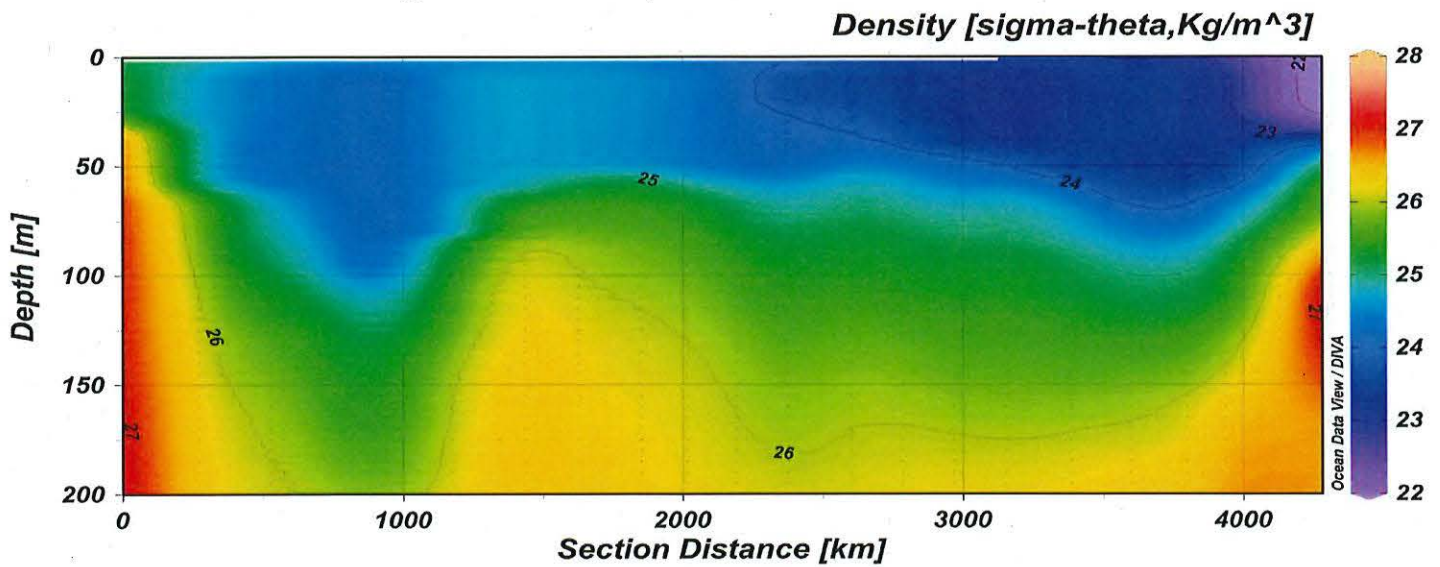


Figure 10. *In situ* Dissolved Oxygen Saturation-200m Cross Section on C275.

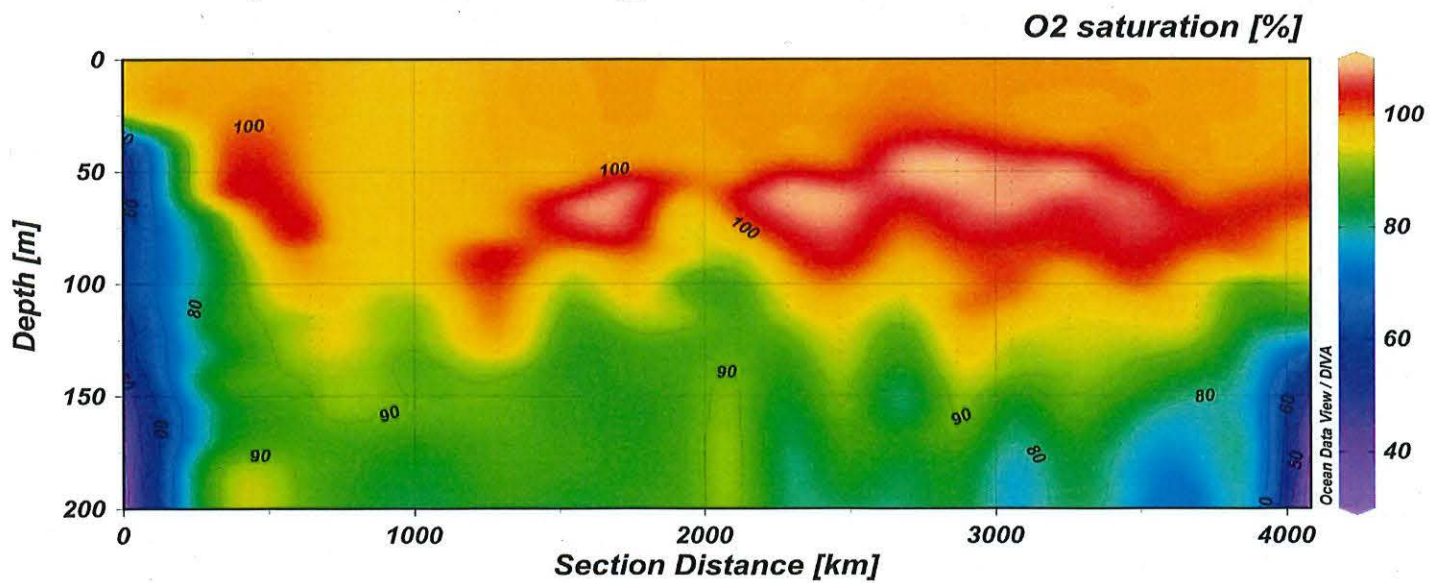


Figure 11. Surface Station derived values of a) Phosphate and b) Nitrate.

Figure 11a. Surface Phosphate concentrations.

Figure 11b. Surface Nitrate concentrations.

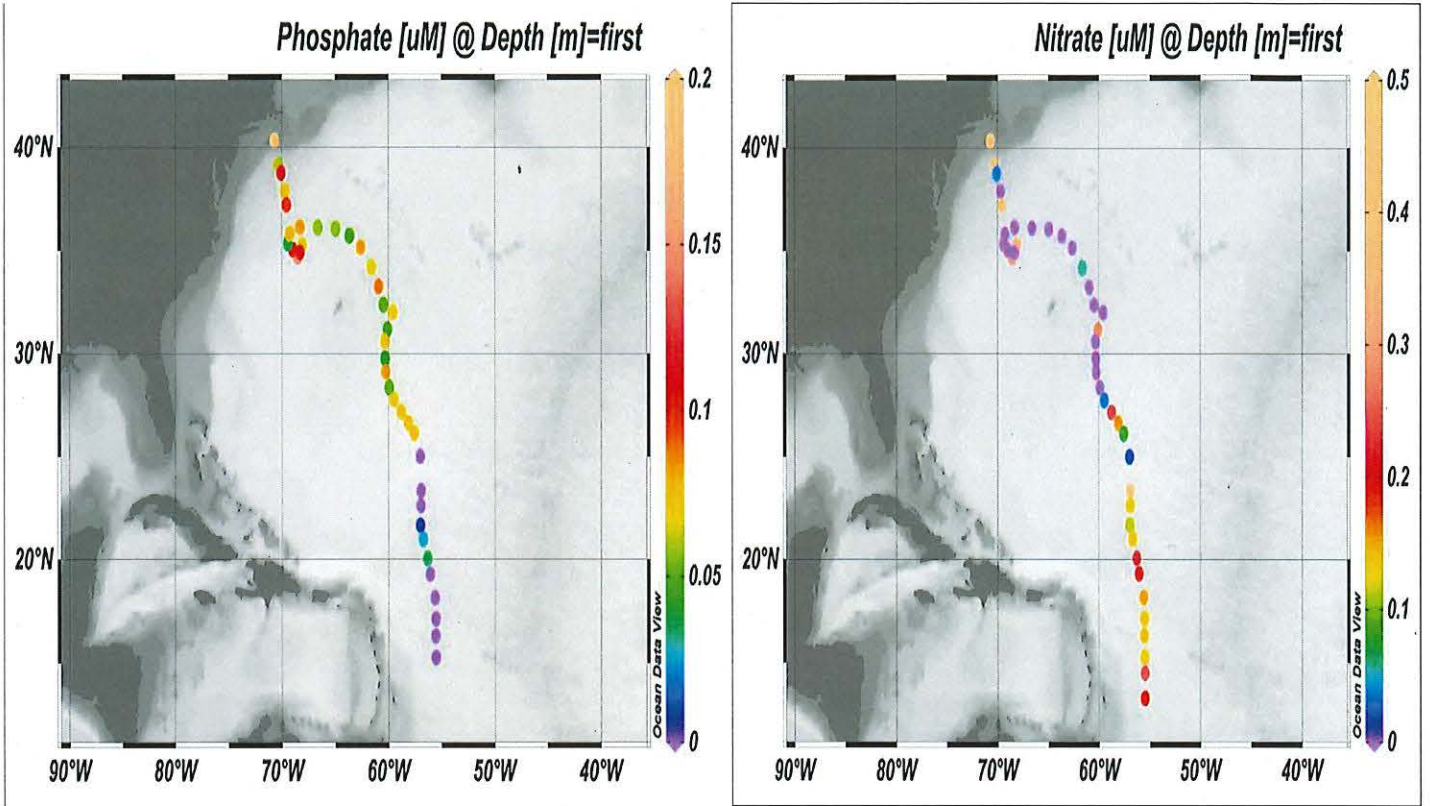


Figure 12. Surface Station derived values of Chlorophyll.

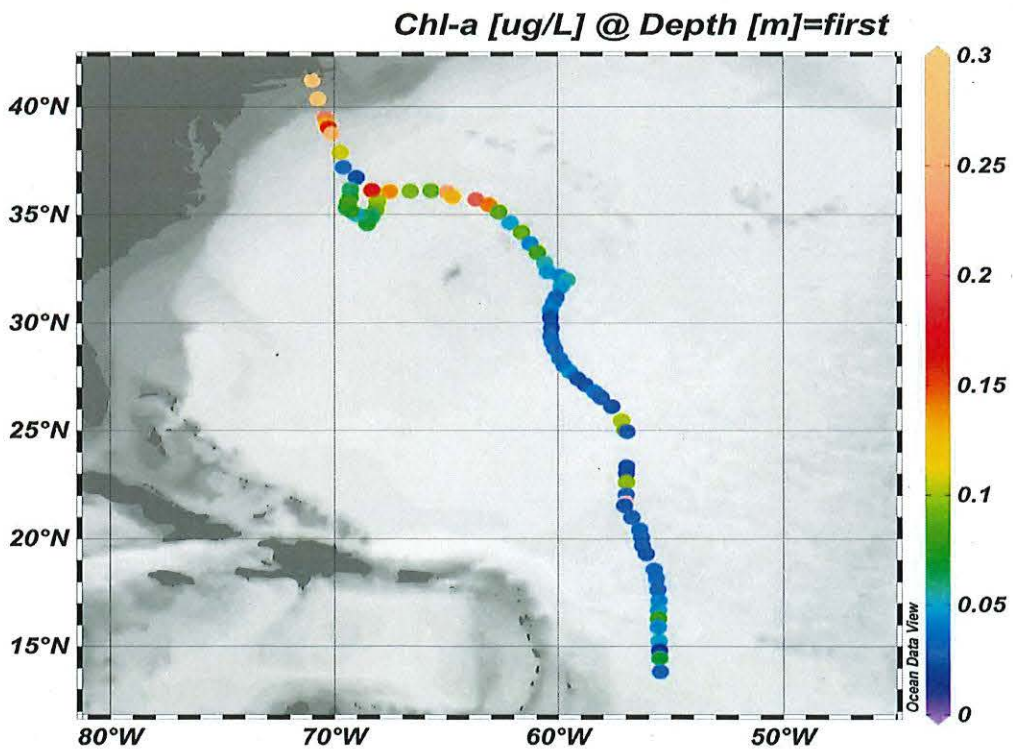


Figure 13. Surface-pumped *in situ* measurements on C275.

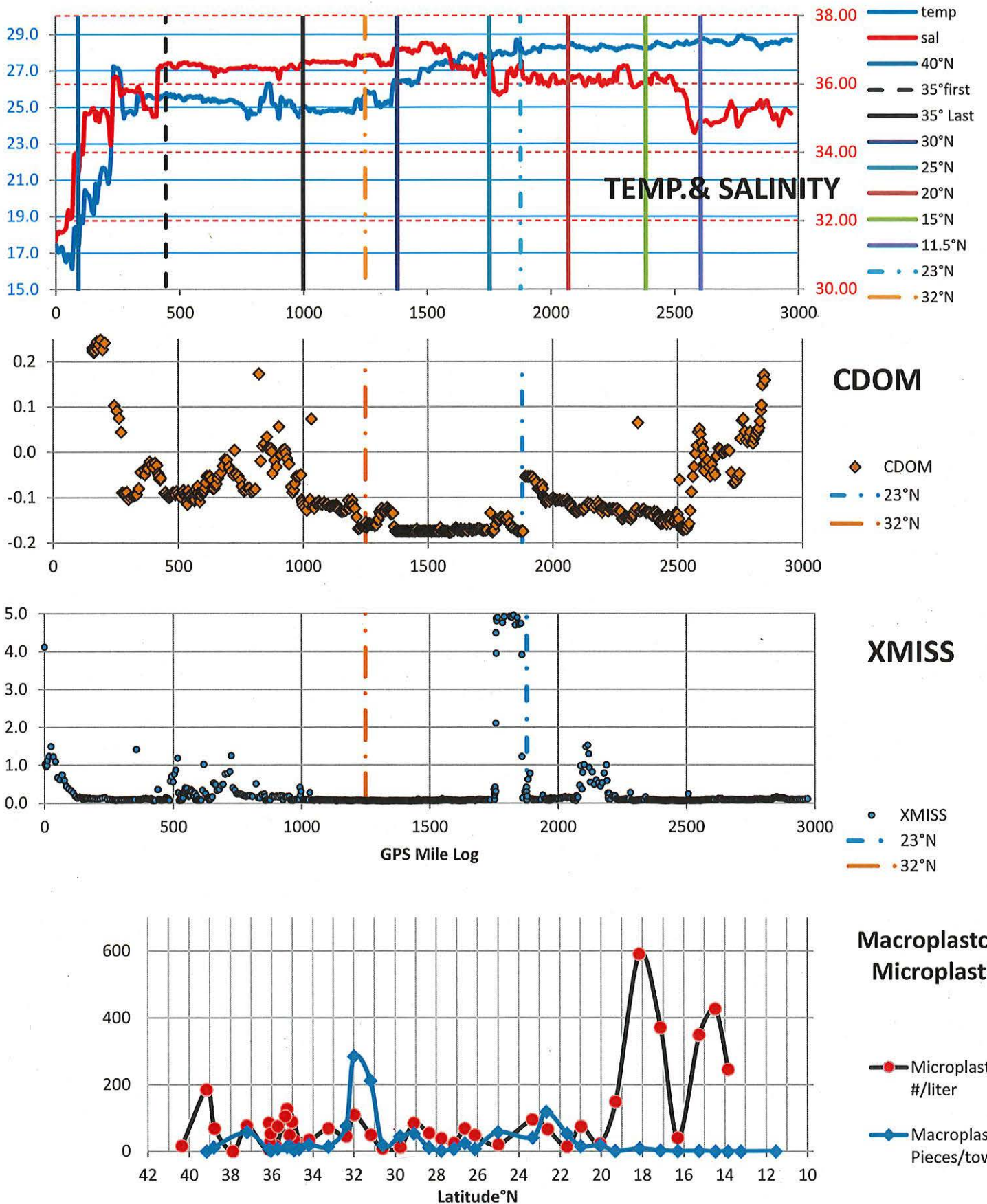


Figure 14. ADCP derived surface current magnitude and direction.

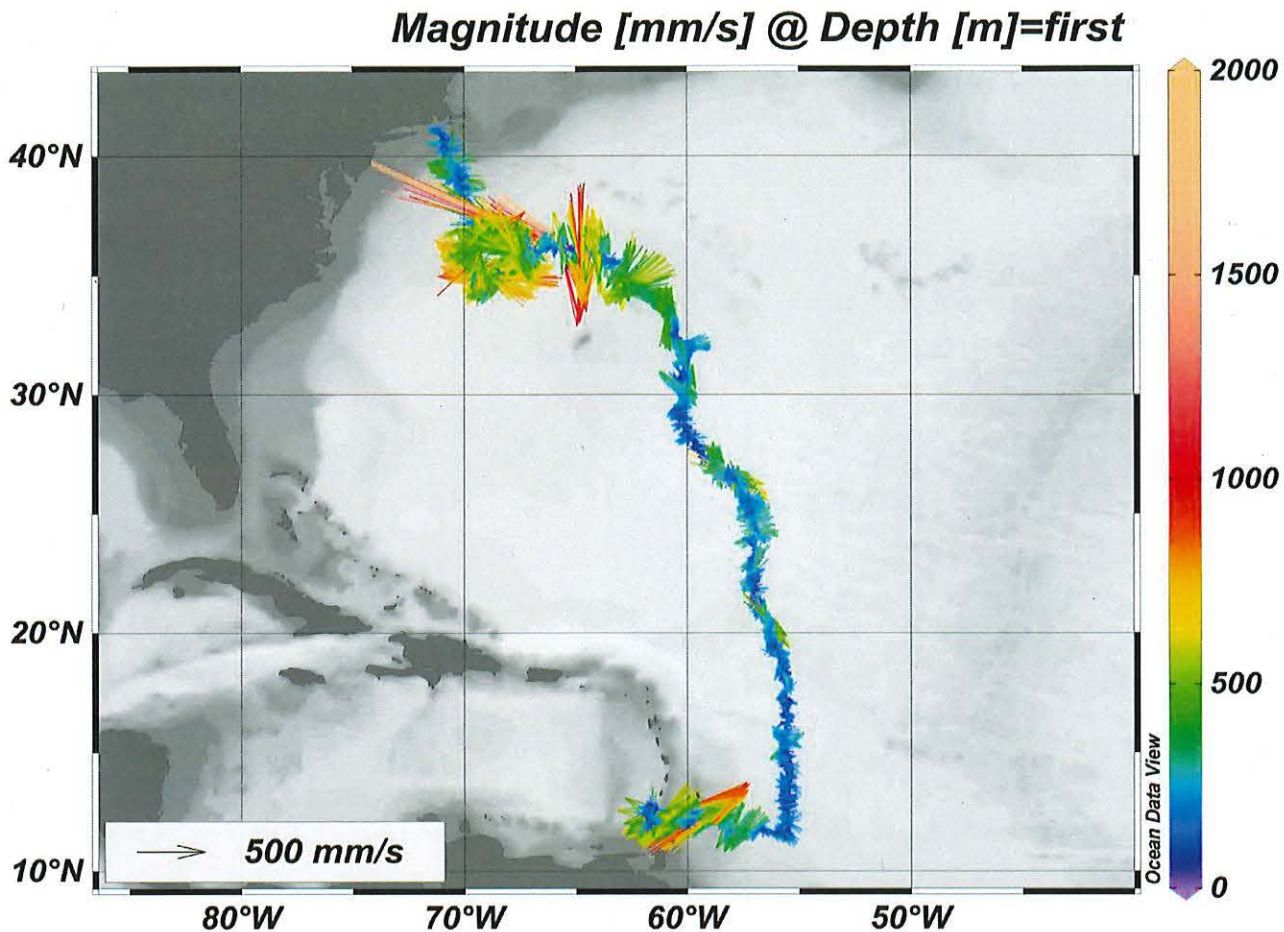


Figure 15. Surface a) Temperature and b) Salinity along the cruise track of C275.

Figure 15a. Surface Temperature
Salinity [psu] @ Depth [m]=first

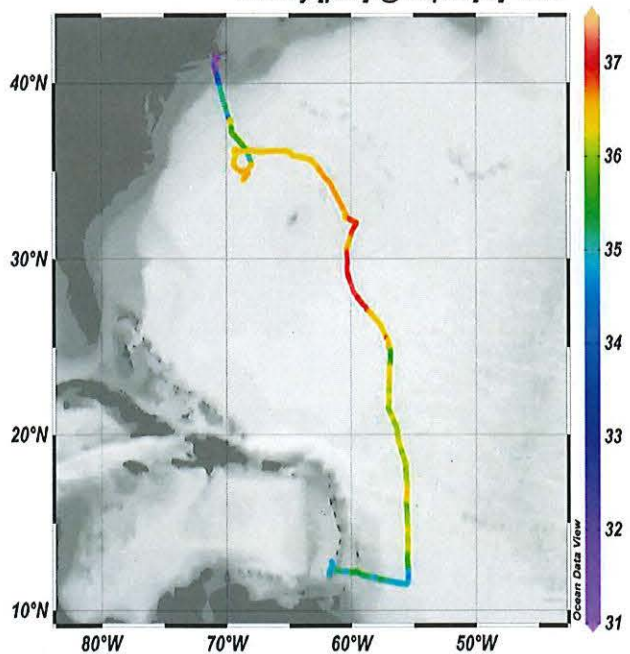


Figure 15b. Surface Temperature
Temperature [°C] @ Depth [m]=first

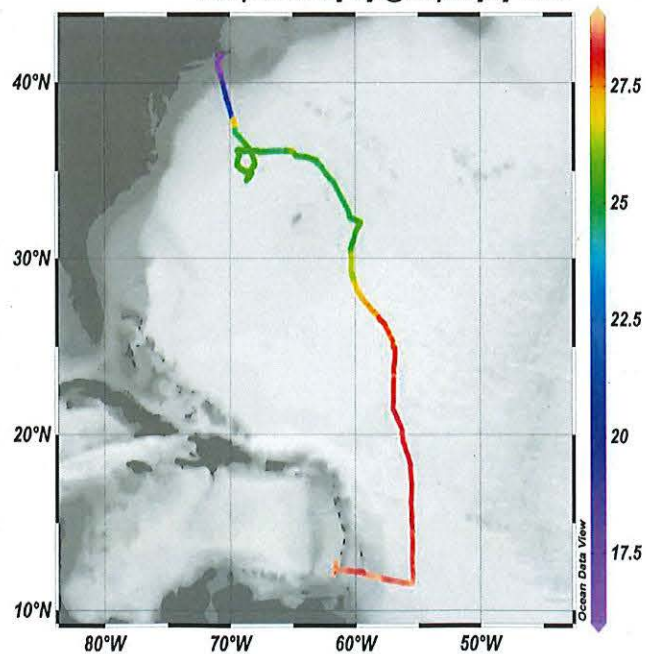


TABLE 1.
C275 Midnight and Noon Positions

DATE	TIME	LAT. °N	LONG. °W	COMMENTS
2017	(local)			
20-Oct	0000	41°31.4'	70°40.5'	Alongside, Woods Hole, MA
	1200	41°30.4'	70°40.2'	
21-Oct	0000	40°17.8'	70°41.5'	
	1200	39°8.5'	70°18.9'	
22-Oct	0000	38°37.9'	70°3.0'	
	1200	37°11.2'	69°34.4'	
23-Oct	0000	36°7.7'	68°0.8'	
	1200	35°14.9'	68°9.6'	
24-Oct	0000	34°35.9' N	68°34.9' W	
	1200	34°54.7' N	68°23.4' W	
25-Oct	0000	35°1.9' N	69°1.0' W	
	1200	35°57.5' N	69°25.1' W	
26-Oct	0000	35°57.5' N	69°18.3' W	
	1200	36°8.1' N	68°19.5' W	
27-Oct	0000	36°6.6' N	66°30.0' W	
	1200	36°1.2' N	64°55.8' W	
28-Oct	0000	35°49.9' N	63°39.6' W	
	1200	35°5.5' N	62°36.5' W	
29-Oct	0000	34°11.1' N	61°37.9' W	
	1200	33°13.1' N	60°55.5' W	
30-Oct	0000	32°22.7' N	60°28.8' W	
	1200	31°57.7' N	59°38.4' W	
31-Oct	0000	31°10.2' N	60°6.1' W	
	1200	30°35.3' N	60°22.8' W	
1-Nov	0000	29°45.2' N	60°19.9' W	
	1200	29°4.7' N	60°18.1' W	
2-Nov	0000	28°20.5' N	59°56.6' W	
	1200	27°43.6' N	59°29.0' W	
3-Nov	0000	27°3.5' N	58°42.3' W	
	1200	26°36.3' N	58°9.9' W	
4-Nov	0000	26°3.0' N	57°13.2' W	
	1200	24°59.2' N	57°1.7' W	
5-Nov	0000	24°26.9' N	56°54.3' W	
	1200	23°18.5' N	56°57.7' W	
6-Nov	0000	22°38.2' N	56°58.9' W	
	1200	21°39.2' N	57°1.8' W	
7-Nov	0000	20°58.5' N	56°44.1' W	
	1200	20°2.8' N	56°20.6' W	
8-Nov	0000	19°9.3' N	56°1.1' W	
	1200	18°7.1' N	55°40.1' W	
9-Nov	0000	17°6.8' N	55°0.1' W	

	1200	16°17.4' N	55°35.5' W	
10-Nov	0000	15°14.0' N	55°33.1' W	
	1200	14°26.2' N	55°29.5' W	
11-Nov	0000	13°45.1' N	55°29.5' W	
	1200	13°12.0' N	55°31.3' W	
12-Nov	0000	12°18.3' N	55°27.8' W	
	1200	11°32.0' N	55°35.7' W	
13-Nov	0000	11°38.9' N	56°12.5' W	
	1200	11°52.6' N	58°6.6' W	
14-Nov	0000	12°2.0' N	59°7.2' W	
	1200	12°11.1' N	59°48.8' W	
15-Nov	0000	12°14.0' N	60°39.2' W	
	1200	12°29.1' N	61°27.8' W	Anchored, Hillsborough, Carriacou
16-Nov	0000	12°29.1' N	61°27.8' W	Anchored, Hillsborough, Carriacou
	1200	12°29.1' N	61°27.8' W	Anchored, Hillsborough, Carriacou
17-Nov	0000	12°30.4' N	61°31.6' W	
	1200	12°2.6' N	61°45.5' W	Anchored St George's, Grenada
18-Nov	0000	12°2.6' N	61°45.5' W	Anchored St George's, Grenada
	1200	12°2.6' N	61°45.5' W	Anchored St George's, Grenada
19-Nov	0000	12°2.6' N	61°45.5' W	
	1200	12°2.6' N	61°45.5' W	
20-Nov	0000	12°2.6' N	61°45.5' W	
	1200	12°2.7' N	61°45.0' W	Alongside, Port Louis Marina, St George's, Grenada

Table 2. Ship's Complement for SSV *Corwith Cramer* Cruise S275Staff

Jason Quilter	Captain
Cassie Sleeper	Chief Mate
Tim Patrick	2nd Mate
Lydia Mathewson	3rd Mate
Kim Reed	Steward
Nate Bears	Engineer
Clare Feely	Assistant Engineer
Chuck Lea	Chief Scientist
Gabo Page	1st Scientist
Farley Miller	2nd Scientist
Grayson Huston	3rd Scientist

Sailing InternsStudents

Darcy Cogswell	Zoe Camillaci	Cornell University
Isaiah Lineaweaver	Erin Cody	Burlington High School
Sonia Pollock	Christos Coulouvatos	Hamilton College
Emma Tolerton	Christopher Driscoll	Stonehill College
Anna Wietelmann	Carolyn Hanrahan	Sturgis Charter School
Jesse Whitney	Rachel Hemond	Middlebury College
	Mercer Lynch	Gilman School
	Erik Shook	Graduate, U Tulsa
	Jessica Whitney	Hart High School
	Molly (Hanqing) Wu	Boston University
	Celine Yam	Hamilton College

Table 3. Student Projects Aboard C275.

Title	Author(s)
Neustonic Zooplankton Biomass Densities and Their Distributions in the Northern Atlantic	Erik Shook
Plastic in the Western North Atlantic	Jack Rozen & Christos Coulouvatos
Variation Over Time of the Eighteen Degree Water and Subtropical Underwater in the North Atlantic	Christopher Driscoll
Deep Chlorophyll Maxima in the Western North Atlantic	Carolyn Hanrahan
Autumnal Euthecosomatous Pteropod Species Distribution in the Western North Atlantic	Zoe Camillaci and Rachel Hemond
Latitudinal Distribution and Examination of Length of Myctophid Species in the Western North Atlantic	Jessica Whitney and Mercer Lynch
<i>Halobates micans</i> : A Distributional Study in the Western North Atlantic	Celine Yam
Ratios of Dinoflagellates and Diatoms, and the Distribution of <i>Trichodesmium</i> in the Western North Atlantic Ocean	Erin Cody
North Atlantic Morphometrics of Three Sargassum Species and Their Distribution in the fall 2017	Hanqing Wu

Data and Sampling Appendices

APPENDIX A STATION INFORMATION SUMMARY OF C275

Sta. Num	Date 2017	Time	Latitude°N	Longitude °W	Neuston Tow	Meter Net	Phyto Net	Hyd.cas t- CTD	Secchi Disk	Surface Station	General Locale
1	21-Oct	0947	39°9.3'	70°18.2'	X		X	X	X	SS-004	Slope Water
2	21-Oct	2124	38°49.3'	70°8.3'	X	X				SS-006	Slope Water
3	22-Oct	0955	37°12.8'	69°35.0'	X		X	X	X	SS-008	N. Sargasso Sea
4	22-Oct	2332	36°8.3'	N°68.20'	X					SS-010	N. Sargasso Sea
5	23-Oct	0947	35°15.4'	68°5.3'	X		X	X	X	SS-012	N. Sargasso Sea
6	23-Oct	2108	34°42.2'	68°27.4'	X	X				SS-014	N. Sargasso Sea
7	24-Oct	1005	34°53.3'	68°16.9'	X		X	X	X	SS-016	N. Sargasso Sea
8	27-Oct	0954	36°4.0'	64°58.0'	X		X	X	X	SS-028	N. Sargasso Sea
9	27-Oct	2338	35°42.8'	N°63.40'	X					SS-030	N. Sargasso Sea
10	28-Oct	0933	35°9.2'	62°39.3'	X		X	X	X	SS-032	N. Sargasso Sea
11	28-Oct	2329	34.11'	N°61.38'	X					SS-034	N. Sargasso Sea
12	29-Oct	0941	33°14.5'	60°56.4'	X		X	X	X	SS-036	N. Sargasso Sea
13	30-Oct	0003	32°22.1'	60°29.0'	X					SS-038	N. Sargasso Sea
14	30-Oct	0939	31°59.2'	59°35.4'	X		X	X	X	SS-040	S. Sargasso Sea
15	30-Oct	2336	31°10.8'	60°5.6'	X					SS-042	S. Sargasso Sea
16	31-Oct	0950	30°36.8'	60°20.5'	X		X	X	X	SS-044	S. Sargasso Sea
17	31-Oct	2331	29°46.4'	60°18.8'	X					SS-046	S. Sargasso Sea
18	1-Nov	0934	29°6.6'	60°16.3'	X		X	X	X	SS-048	S. Sargasso Sea
19	1-Nov	2320	28°21.7'	59°56.4'	X					SS-050	S. Sargasso Sea
20	2-Nov	0940	27°16.5'	59°28.6'	X		X	X	X	SS-052	S. Sargasso Sea
21	2-Nov	2115	27°10.4'	58°48.4'	X	X				SS-054	S. Sargasso Sea
22	3-Nov	0951	26°37.1'	58°8.4'	X		X	X	X	SS-056	S. Sargasso Sea
23	3-Nov	2232	26°7.7'	57°36.5'	X					SS-058	S. Sargasso Sea
24	4-Nov	0942	24°59.9'	57°2.1'	X		X	X	X	SS-060	S. Sargasso Sea
25	5-Nov	0944	23°20.9'	56°57.1'	X		X	X	X	SS-062	S. Sargasso Sea
26	5-Nov	2330	22°39.7'	56°58.7'	X					SS-064	S. Sargasso Sea
27	6-Nov	0942	21°40.2'	57°0.5'	X		X	X	X	SS-066	Transition Zone
28	6-Nov	2321	20°59.3'	56°43.9'	X					SS-068	Transition Zone
29	7-Nov	0949	20°4.2'	56°18.5'	X		X	X	X	SS-070	Transition Zone
30	7-Nov	2105	19°20.1'	56°5.5'	X	X				SS-072	Transition Zone
31	8-Nov	0947	18°9.0'	55°38.1'	X		X	X	X	SS-074	Transition Zone
32	8-Nov	2332	17°7.5'	55°32.7'	X					SS-076	Transition Zone
33	9-Nov	0955	16°17.6'	55°33.6'	X		X	X	X	SS-078	Transition Zone
34	9-Nov	2336	15°14.9'	55°32.6'	X					SS-080	Transition Zone
35	10-Nov	0943	14°27.95'	55°29.53'	X		X	X	X	SS-082	Tropical Zone
36	10-Nov	2107	13°52.6'	55°28.5'	X	X				SS-083	Tropical Zone
37	11-Nov	0946	13°14.0'	55°29.2'	X		X	X	X	SS-084	Tropical Zone
38	12-Nov	0907	11°32.0'	55°32.2'	X		X	X	X	SS-085	Tropical Zone
39	14-Nov	1128	12°11.7'	59°47.5'	X						Tropical Zone
40	14-Nov	2331	12°14.4'	60°37.7'	X						Tropical Zone

Appendix B. C275 Surface Station Information.

Sta.	Date	Time	Log	Lat.	Long.	Temp.	Salin.	Chloro- phyll <i>a</i>	CDOM Fluor. <i>in vivo</i>	Tx	PO ₄	NO ₃	pH	Alk	Micro- plastic
#	2017	(local)	(nm)	°N	°W	(°C)	(PSU)	(µg/l)	(V)	(1 min Avg)	(µM)	(µM)			(piece/L)
001	10/20	1709	11.0	41°13.4'	70°58.3'	17.3	31.66	3.680	240.9	10930	-	-	-	-	16
002	10/20	2325	65.9	40°21.8'	70°43.2'	18.7	34.09	1.278	133.4	13907	0.201	2.538	8.13	2.57	-
003	10/21	0543	121.7	39°29.8'	70°24.0'	19.8	35.19	0.211	108.6	14843	-	-	-	-	184
004	10/21	1050	139.9	39°8.8'	70°18.9'	19.2	35.30	0.120	107.6	14960	0.060	0.473	-	-	-
005	10/21	1701	144.7	39°2.6'	70°15.2'	20.8	34.96	0.157	103.2	14927	-	-	-	-	68
006	10/21	2251	159.0	38°45.9'	70°6.3'	20.7	34.92	0.253	105.2	14974	0.112	0.034	8.02	2.44	-
007	10/22	0511	212.0	37°53.4'	69°43.8'	27.2	36.16	0.105	96.9	14880	0.074	0.000	-	-	76
008	10/22	1040	252.0	37°12.5'	69°35.3'	24.4	35.73	0.032	83.0	15147	0.098	0.888	-	-	-
009	10/22	1700	289.0	36°43.8'	69°0.6'	24.6	35.76	0.022	82.8	15085	-	-	-	-	6
010	10/22	2342	336.4	36°8.3'	68°20.3'	25.6	35.31	0.117	85.6	15162	0.060	0.779	8.03	2.47	-
011	10/23	0506	367.9	35°37.4'	68°5.1'	25.5	35.06	0.098	86.8	14984	-	-	-	-	126
012	10/23	1154	389.9	35°15.2'	68°8.9'	25.5	36.52	0.091	85.1	15150	0.065	0.332	-	-	-
013	10/23	1659	414.3	34°58.6'	68°19.4'	25.7	36.56	0.055	83.1	15109	-	-	-	-	20
014	10/23	2255	433.0	34°39.5'	68°32.8'	25.6	36.53	0.073	82.5	15059	0.145	0.292	8.04	2.38	-
015	10/24	0525	454.5	34°35.1'	68°31.4'	25.5	36.53	0.074	82.7	13814	-	-	-	-	32
016	10/24	1052	470.1	34°53.9'	68°19.5'	25.4	36.61	0.062	83.2	15153	0.107	0.000	-	-	-
017	10/24	1701	481.5	34°56.5'	68°39.0'	25.5	36.55	0.062	82.3	14892	-	-	-	-	88
018	10/24	2353	481.2	35°1.9'	69°0.7'	25.0	36.58	0.051	82.1	14528	0.102	0.000	8.08	2.51	-
019	10/25	0539	481.2	35°11.1'	69°15.3'	26.0	36.56	0.078	83.0	13904	-	-	-	-	104
020	10/25	1103	481.2	35°20.3'	69°26.6'	25.6	36.57	0.072	82.2	15106	0.037	0.000	-	-	-
021	10/25	1707	481.2	35°34.5'	69°23.1'	25.3	36.50	0.077	83.3	15128	-	-	-	-	16
022	10/25	2219	481.2	35°48.4'	69°16.8'	25.4	36.47	0.083	85.7	12129	0.079	0.000	-	2.37	-
023	10/26	0511	481.2	36°11.0'	69°15.8'	25.3	36.42	0.061	84.2	15084	-	-	-	-	84
024	10/26	1145	481.2	36°8.1'	68°19.1'	25.3	36.43	0.164	87.7	12948	0.084	0.000	-	-	-
025	10/26	1720	509.8	36°4.1'	67°32.2'	25.3	36.46	0.137	85.7	13894	-	-	-	2.33	24
026	10/26	2310	550.0	36°5.8'	66°37.7'	24.3	36.46	0.093	84.3	14683	0.056	0.000	8.09	-	-
027	10/27	0503	596.6	36°6.8'	65°41.2'	20.8	36.46	0.089	85.2	14990	-	-	-	-	52
028	10/27	1043	634.5	36°3.2'	64°57.6'	26.3	36.44	0.232	89.4	15128	0.056	0.000	-	-	-
029	10/27	1705	642.3	35°49.9'	64°42.2'	25.1	36.44	0.130	88.3	15069	-	-	-	-	74
030	10/27	2343	695.7	35°42.8'	63°40.1'	25.2	36.44	0.200	89.1	14929	0.046	0.000	8.00	2.4527	-
031	10/28	0544	734.2	35°27.9'	63°5.2'	25.0	36.50	0.142	84.0	15143	-	-	-	-	48
032	10/28	1005	761.2	35°8.3'	62°38.9'	25.0	36.60	0.088	82.0	13893	0.084	0.000	-	-	-
033	10/28	1700	799.8	34°38.6'	62°8.9'	24.7	36.63	0.047	93.8	14399	-	-	-	-	34
034	10/28	2337	841.5	34°11.4'	61°38.2'	24.6	36.63	0.090	81.8	15175	0.065	0.053	8.03	2.50	-
035	10/29	0500	880.0	33°40.9'	61°16.1'	24.9	36.66	0.041	80.7	15114	-	-	-	-	68
036	10/29	1038	915.9	33°14.7'	60°56.5'	24.8	36.63	0.083	80.8	15182	0.088	0.000	-	-	-
037	10/29	1650	951.5	32°46.1'	60°36.2'	24.8	36.65	0.054	80.5	15130	-	-	-	-	44
038	10/30	0008	979.9	32°22.0'	60°29.1'	24.8	36.61	0.044	81.0	15189	0.051	0.000	8.04	2.5531	-
039	10/30	0515	1010.7	32°9.9'	59°54.9'	25.2	36.82	0.041	78.0	15151	-	-	-	-	108
040	10/30	1025	1036.0	31°59.1'	59°36.1'	25.7	36.84	0.055	78.2	15193	0.070	0.000	-	-	-
041	10/30	1707	1056.2	31°40.0'	59°52.0'	25.8	36.85	0.046	78.5	15169	-	-	-	-	48
042	10/30	2342	1086.2	31°10.5'	60°5.8'	25.2	36.70	0.028	80.5	15194	0.046	0.282	-	2.4805	-
043	10/31	0500	1079.5	30°56.7'	60°13.1'	25.1	36.59	0.035	80.7	15198	-	-	-	-	8
044	10/31	1032	1117.8	30°36.5'	60°21.1'	25.3	36.59	0.042	80.4	15194	0.074	0.000	-	-	-

Sta.	Date	Time	Log	Lat.	Long.	Temp.	Salin.	Chloro- phyll <i>a</i>	CDOM Fluor. <i>in vivo</i>	Tx	PO ₄	NO ₃	pH	Alk	Micro- plastic
#	2017	(local)	(nm)	°N	°W	(°C)	(PSU)	(µg/l)	(V)	(1 min Avg)	(µM)	(µM)			(piece/L)
045	10/31	1702	1135.4	30°14.8'	60°21.3'	26.1	36.87	0.021	77.7	19184	-	-	-	-	12
046	10/31	2333	1163.5	29°46.3'	60°18.9'	26.4	37.01	0.023	77.3	15187	0.041	0.000	8.13	2.5785	
047	11/1	0507	1180.5	29°23.5'	60°20.7'	26.4	36.99	0.029	77.5	15197	-	-	-	-	84
048	11/1	1013	1196.2	29°6.5'	60°17.0'	26.2	39.92	0.036	77.3	15196	0.084	0.000	-	-	-
049	11/1	1656	1213.7	28°47.6'	60°9.6'	26.3	36.98	0.028	77.5	15169	-	-	-	-	54
050	11/1	2330	1240.7	28°21.4'	59°56.5'	27.1	37.19	0.032	77.3	15164	0.051	0.000	8.01	2.5156	
051	11/2	0505	1259.7	28°1.4'	59°45.1'	27.0	37.16	0.033	77.6	15160	-	-	-	-	38
052	11/2	1040	1277.4	27°45.6'	59°29.3'	27.3	37.01	0.041	77.2	-	0.074	0.033	-	-	-
053	11/2	1700	1302.9	27°25.8'	59°8.4'	27.4	36.92	0.022	77.5	15113	-	-	-	-	24
054	11/2	2227	1327.5	27°8.5'	58°48.0'	27.4	37.03	0.021	77.3	15180	0.074	0.239	7.95	2.178	
055	11/2	0502	1358.8	26°49.3'	58°22.8'	27.5	36.56	0.037	77.9	15183	-	-	-	-	68
056	11/3	1024	1378.6	26°37.0'	58°8.7'	27.7	36.46	0.028	77.6	15178	0.074	0.157	-	-	-
057	11/3	1659	1395.6	26°31.8'	58°4.3'	27.8	36.48	0.025	77.6	15163	-	-	-	-	48
058	11/3	2238	1423.4	26°7.8'	57°36.5'	27.8	36.44	0.022	77.7	15138	0.076	0.078	-	-	-
059	11/4	0505	1467.3	25°28.3'	57°10.9'	27.5	36.92	0.101	77.7	15094	-	-	-	-	20
060	11/4	1015	1500.2	25°0.1'	57°2.0'	27.9	36.59	0.091	77.7	15015	0.000	0.019	-	-	-
061	11/4	1700	1501.2	24°57.9'	56°56.1'	27.7	36.44	0.025	77.4	6024	-	-	-	-	94
062	11/5	1045	1597.4	23°20.5'	56°57.6'	28.1	36.26	0.023	77.7	12049	0.000	0.782	-	-	-
063	11/5	1824	1617.1	23°2.1'	56°58.3'	28.1	36.43	0.021	77.5	15100	-	-	-	-	66
064	11/5	2334	1635.8	22°36.9'	56°58.7'	27.9	36.13	0.096	85.4	15093	0.000	0.126	8.01	2.4146	-
065	11/6	0500	1672.6	22°1.8'	56°59.1'	28.2	36.26	0.029	83.8	14535	-	-	-	-	14
066	11/6	1026	1695.9	21°40.2'	57°0.7'	28.3	36.23	0.267	82.5	15044	0.007	0.115	-	-	-
067	11/6	1709	1701.2	21°31.4'	57°3.5'	28.3	36.04	0.024	81.7	14933	-	-	-	-	74
068	11/6	2327	1738.5	20°59.2'	56°43.9'	28.2	36.24	0.027	52.0	14929	0.025	0.132	8.06	2.3571	
069	11/7	0454	1775.9	20°25.1'	56°23.5'	28.3	36.08	0.034	81.6	14811	-	-	-	-	22
070	11/7	1023	1795.0	20°4.0'	56°19.0'	28.3	36.03	0.030	81.1	15154	0.034	0.219	-	-	-
071	11/7	1710	1818.5	19°40.6'	56°16.8'	28.3	36.18	0.027	80.2	11905	-	-	-	-	148
072	11/7	2218	1844.4	19°17.9'	56°5.9'	28.2	36.20	0.024	80.5	12408	0.000	0.195	8.03	3.0401	-
073	11/8	0450	1891.2	18°33.4'	55°45.5'	28.1	36.11	0.033	81.2	13883	-	-	-	-	590
074	11/8	1035	1917.6	18°8.8'	55°38.6'	28.3	36.26	0.033	80.1	14456	0.000	0.155	-	-	-
075	11/8	1705	1944.4	17°38.4'	55°35.7'	28.3	35.98	0.028	80.8	15014	-	-	-	-	370
076	11/8	2340	1974.9	17°7.5'	55°32.7'	28.2	36.30	0.040	80.3	15151	0.000	0.137	7.98	2.6439	-
077	11/9	0500	2002.2	16°41.0'	55°33.6'	28.2	36.46	0.045	79.5	15154	-	-	-	-	40
078	11/9	1005	2023.4	16°17.6'	55°33.6'	28.3	36.52	0.080	79.7	15151	0.000	0.144	-	-	-
079	11/9	1700	2045.5	15°54.2'	55°34.6'	28.4	35.90	0.041	80.7	15076	-	-	-	-	348
080	11/9	2345	2085.6	15°14.9'	55°32.6'	28.2	36.01	0.048	80.1	15162	0.000	0.126	6.41	2.3359	-
081	11/10	0501	2110.0	14°47.8'	55°31.2'	28.2	36.08	0.012	79.7	15152	-	-	-	-	426
082	11/10	1019	2127.0	14°27.8'	55°30.2'	28.3	36.29	0.067	79.5	15169	-	0.239	-	-	244
083	11/10	2217	2159.5	13°50.1'	55°29.1'	28.4	36.05	-	79.7	15183	-	-	-	-	-
084	11/11	1017	2184.1	13°13.9'	55°29.8'	28.4	36.00	-	79.9	15186	-	0.190	-	-	-
085	11/12	0945	2207.9	11°32.0'	55°33.0'	28.7	34.90	-	89.2	15030	-	-	-	-	-

Appendix C.

C275 HYDROCAST DATA. Dash (-) indicates no value.

STATION	BOT-TLE	DEPTH	TEMP.	SAL.	DENSITY	O ₂	PO ₄	NO ₃	CHLOR.	CHLOR.
C275	C275	(m)	(°C)	(PSU)	(σ _t)	probe (ml/l)	(μg/l)	(μg/l)	(μg/l)	(volts)
001	SS-004	0	19.2	35.30	25.3	5.1	0.060	0.473	0.120	0.005
Slope Water	12	10	19.0	35.35	25.3	5.1	0.121	0.169	0.165	0.004
21-Oct-17	11	25	18.8	35.39	25.4	5.1	0.102	-	0.368	0.022
39°8.9' N	10	35	16.8	35.91	26.3	4.1	0.478	4.433	1.750	1.105
70°18.9' W	9	45	16.3	36.13	26.5	3.7	0.609	9.131	0.481	0.050
1% light (Secchi)=64	8	54	15.5	36.04	26.7	3.7	0.679	11.406	0.200	0.014
	7	64	14.8	35.89	26.7	3.8	0.755	12.109	0.135	0.007
	6	75	14.4	35.81	26.7	3.8	0.750	2.355	0.067	0.003
	5	125	13.1	35.66	26.9	3.7	1.027	5.400	-	0.001
	4	248	10.1	35.33	27.2	3.1	1.557	11.925	-	0.001
	3	496	5.8	35.06	27.6	4.8	1.463	10.118	-	0.001
	2	744	4.6	35.00	27.7	5.5	1.233	6.136	-	0.001
	1	893	4.4	34.98	27.7	5.6	1.289	5.902	-	0.001
007	SS-016	0	25.4	36.61	24.5	4.6	0.107	0.000	0.062	0.059
Northern Sargasso Sea	12	25	25.4	36.66	24.5	4.6	0.074	0.180	0.054	0.051
24-Oct-17	11	50	25.3	36.66	24.5	4.6	0.037	0.009	0.080	0.055
34°53.9' N	10	60	24.8	36.74	24.7	4.7	1.111	0.026	0.127	0.067
68°18.5'	9	70	23.5	36.77	25.1	5.0	0.093	0.148	0.165	0.078
1% light (Secchi)=67	8	80	22.7	36.73	25.3	5.1	0.074	0.000	0.232	0.083
	7	100	21.4	36.73	25.7	4.9	0.046	0.049	0.242	0.106
	6	124	20.4	36.70	25.9	4.7	0.102	0.572	0.139	0.062
	5	199	19.5	36.64	26.2	4.6	0.088	2.209	-	0.017
	4	348	18.8	36.59	26.3	4.4	0.182	3.814	-	0.008
	3	497	17.5	36.43	26.5	4.0	0.346	-	-	0.006
	2	743	13.2	35.75	26.9	3.5	1.088	2.991	-	0.005
	1	838	11.0	35.43	27.1	3.2	1.482	7.910	-	0.006
022	SS-056	0	27.7	36.46	23.7	4.4	0.074	0.157	0.025	0.025
Southern Sargasso Sea	11	50	27.6	37.15	24.1	4.5	0.084	0.628	0.070	0.016
3-Nov-17	10	60	26.9	37.21	24.4	4.9	0.088	0.000	0.174	0.019
26°37.0' N	9	80	25.2	37.18	24.9	4.9	0.074	0.037	0.199	0.024
58°8.7' W	8	95	24.2	37.16	25.2	4.8	0.102	0.000	0.051	0.029
1% light (Secchi)=88	7	125	23.0	37.13	25.6	4.5	0.088	0.110	0.087	0.036
	6	149	21.8	36.95	25.8	4.5	0.079	0.232	-	0.019
	5	199	20.5	36.80	26.0	4.1	0.093	1.572	-	0.007
	4	347	17.8	36.52	26.5	4.0	0.295	4.942	-	-
	3	496	15.3	36.09	26.8	3.9	0.661	2.121	-	-
	2	744	10.6	35.41	27.2	3.2	1.416	3.596	-	-
	1	894	7.8	35.11	27.4	3.3	1.721	4.446	-	-

C275 HYDROCAST DATA. (cont.) Dash (-) indicates no value.

STATION	BOT-TLE	DEPTH	TEMP.	SAL.	DENSITY	O ₂	PO ₄	NO ₃	CHLOR.	CHLOR.
C275	C275	(m)	(°C)	(PSU)	(σ _t)	probe (ml/l)	(µg/l)	(µg/l)	(µg/l)	(volts)
	SS-074	0	28.3	36.285	23.3	4.4	0.000	0.155	0.033	0.037
031	11	50	28.2	36.57	23.5	4.5	0.021	0.002	0.243	0.011
Transition Zone	10	75	26.3	37.31	24.7	4.8	0.030	0.000	0.281	0.015
11/8/17	9	99	24.7	37.27	25.2	4.7	0.030	0.088	0.175	0.019
18°8.9' N	8	109	24.3	37.29	25.3	4.6	0.062	0.033	0.059	0.026
55°8.3' W	7	125	23.7	37.35	25.5	4.4	0.071	0.685	0.319	0.023
1% light (Secchi)=105	6	149	22.4	37.17	25.7	4.2	0.044	0.536	0.052	0.009
	5	199	19.6	36.81	26.2	3.9	0.232	2.570	-	-
	4	348	15.6	36.14	26.7	3.1	0.865	13.295	-	-
	3	496	12.0	35.53	27.0	2.4	1.429	19.251	-	-
	2	743	7.3	34.90	27.3	2.7	2.057	13.848	-	-
	1	893	5.8	34.77	27.4	3.0	2.195	14.458	-	-
	SS-082	0	28.3	36.285	23.1	4.4		0.239	0.067	0.011
035	12	20	28.2	36.31	23.3	4.4	0.000	0.013	0.319	0.010
Tropical Water	11	40	28.2	36.31	23.3	4.4	0.000	0.030	0.052	0.009
10-Nov-17	10	59	28.1	36.59	23.6	4.5	0.057	0.000	0.043	0.010
14°27.9' N	9	80	26.5	37.08	24.4	4.6	0.000	0.000	0.200	0.016
55°29.9' W	8	99	24.9	37.24	25.1	4.1	0.085	0.097	0.326	0.049
1% light (Secchi)=83	7	124	23.2	37.17	25.5	3.8	0.085	1.674	0.156	0.019
	6	150	21.7	37.12	25.9	3.7	0.117	2.595	0.016	0.007
	5	199	19.0	36.70	26.3	4.0	0.186	3.202	-	-
	4	249	17.0	36.39	26.6	3.4	0.562	9.801	-	-
	3	496	9.3	35.08	27.1	2.6	1.764	13.072	-	-
	2	744	6.0	34.71	27.3	2.9	2.236	20.392	-	-
	1	893	5.4	34.74	27.4	3.1	2.241	14.847	-	-

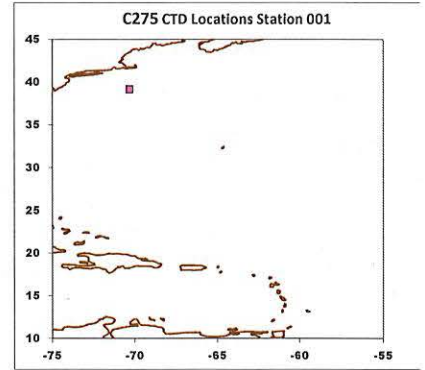
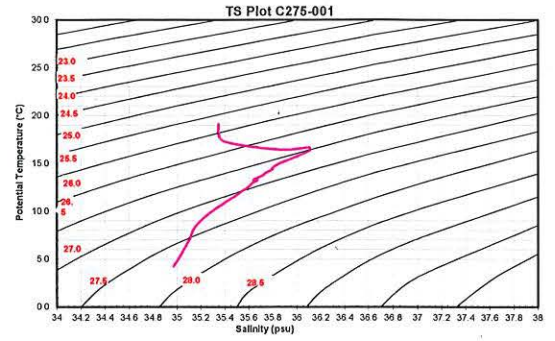
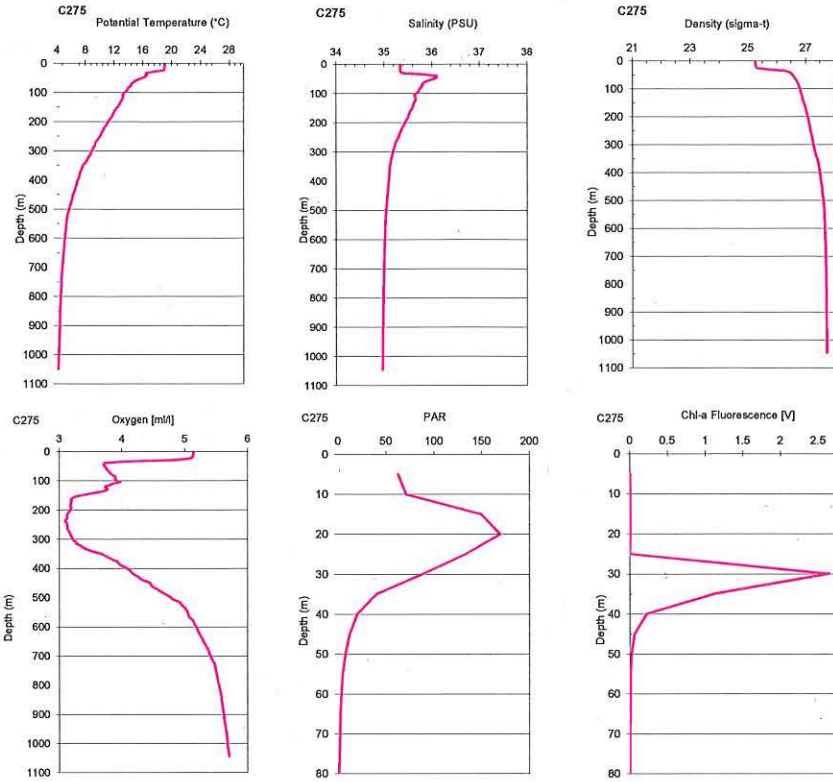
APPENDIX D

C275 CTD AND SECCHI DISC STATION SUMMARY

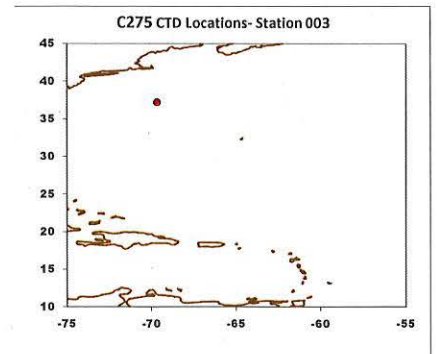
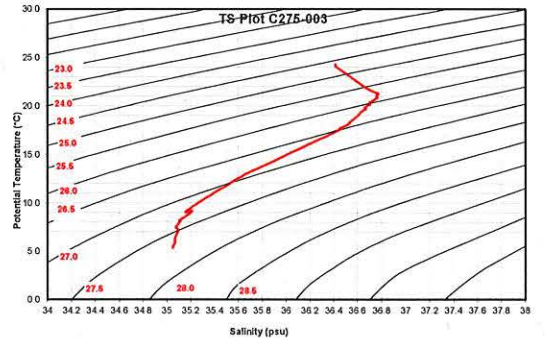
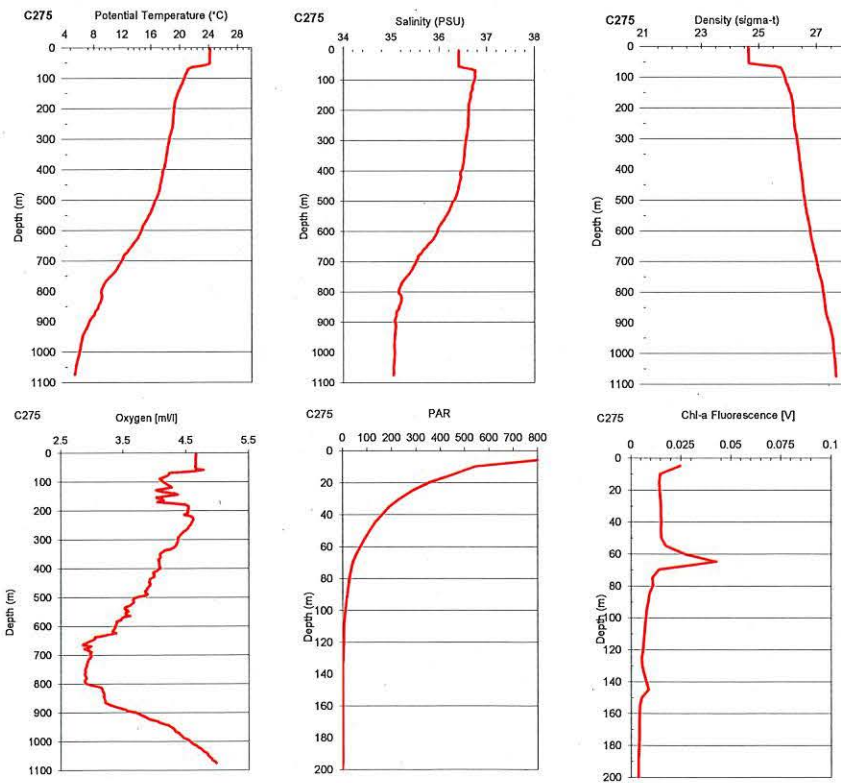
STATION	DATE	LAT.	LONG.	CAST DEPTH	GENERAL LOCATION	Secchi Depth	SD 1% Depth
C275	2017	(°N)	(°W)	(m)		(m)	(m)
001	21-Oct	39°8.9'	70°18.9'	1045	Slope Water	24	64
003	22-Oct	37°12.7'	69°39.3'	1076	North Sargasso Sea	37	99
005	23-Oct	35°15.4'	68°5.3'	1067	North Sargasso Sea	26	70
007	24-Oct	34°53.9'	68°18.5'	840	North Sargasso Sea	25	67
008	27-Oct	36°3.4'	64°57.7'	1101	North Sargasso Sea	26	70
010	28-Oct	35°8.5'	62°39.0'	927	North Sargasso Sea	35	94
012	29-Oct	33°14.6'	60°56.8'	1097	North Sargasso Sea	32	86
014	30-Oct	31°59.1'	59°35.7'	1027	South Sargasso Sea	34	91
016	31-Oct	30°36.6'	60°20.9'	1177	South Sargasso Sea	33	89
018	1-Nov	29°6.6'	60°16.6'	1087	South Sargasso Sea	32	86
020	2-Nov	27°45.8'	59°29.1'	1067	South Sargasso Sea	28	75
022	3-Nov	26°37.0'	58°8.7'	1065	South Sargasso Sea	33	88
024	4-Nov	25°0.1'	57°2.1'	1092	South Sargasso Sea	43	115
025	5-Nov	23°20.8'	56°57.2'	1067	South Sargasso Sea	43	115
027	6-Nov	21°40.2'	57°0.7'	1052	Transition Zone	38	102
029	7-Nov	20°9.0'	56°18.8'	1037	Transition Zone	35	94
031	8-Nov	18°8.9'	55°8.3'	1055	Transition Zone	39	105
033	9-Nov	16°17.6'	55°34.4'	1072	Transition Zone	32	86
035	10-Nov	14°27.9'	55°29.9'	985	Tropical Zone	31	83
037	11-Nov	13°14.0'	55°29.5'	1012	Tropical Zone	30	81
038	12-Nov	11°32.0'	55°32.7'	2230	Tropical Zone	25	67

APPENDIX E. C275 CTD STATION PROFILES

C275 001 Slope Water 39°8.9' N 70°18.9' W

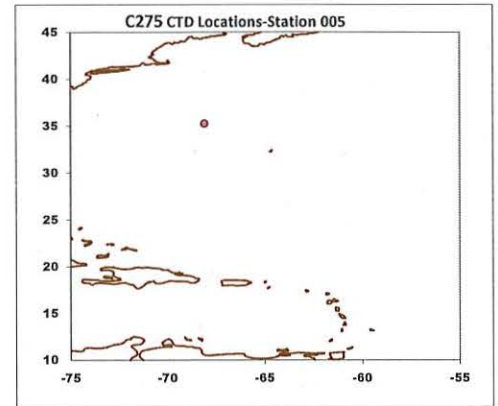
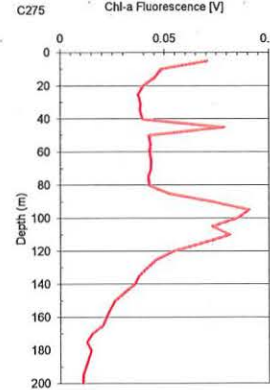
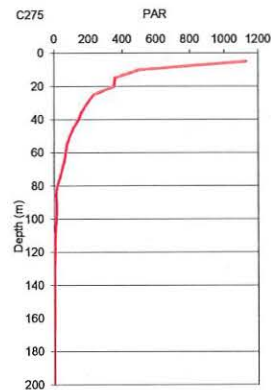
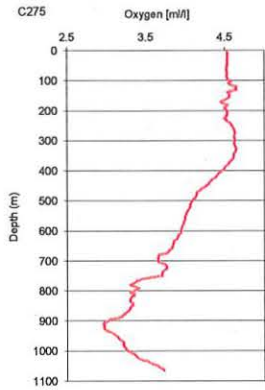
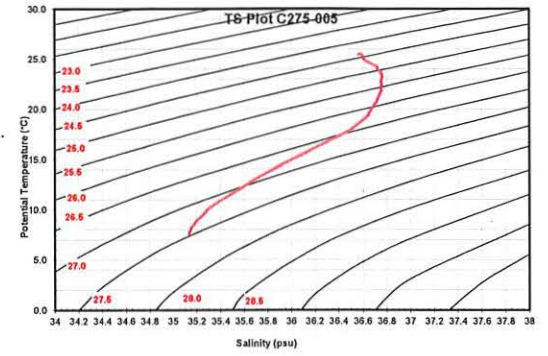
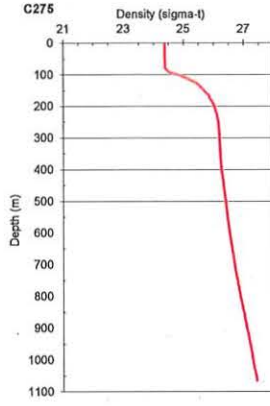
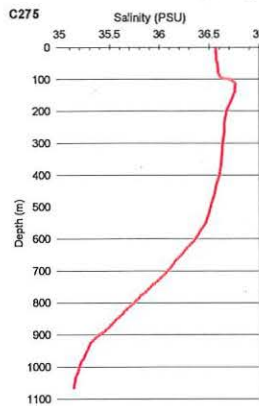
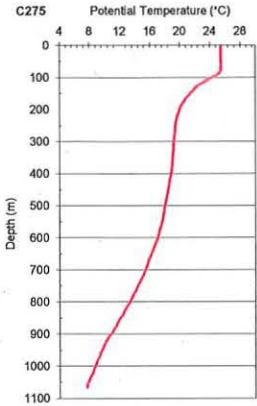


C275 003 Northern Sargasso Sea 1 37°12.8' N 69°39.3' W

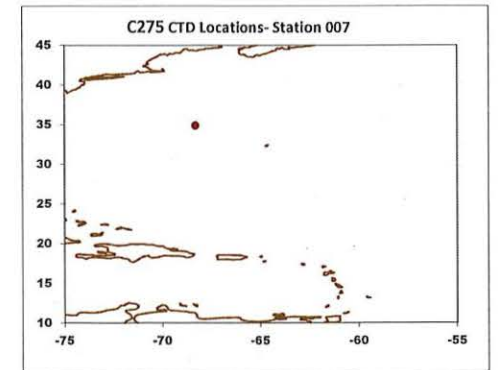
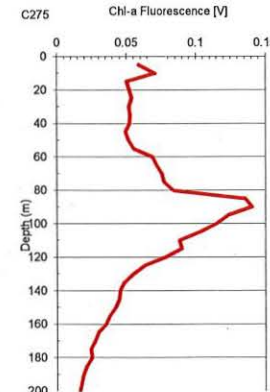
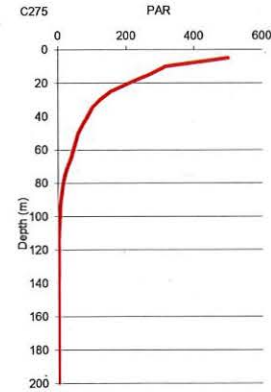
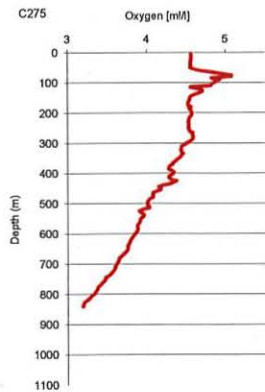
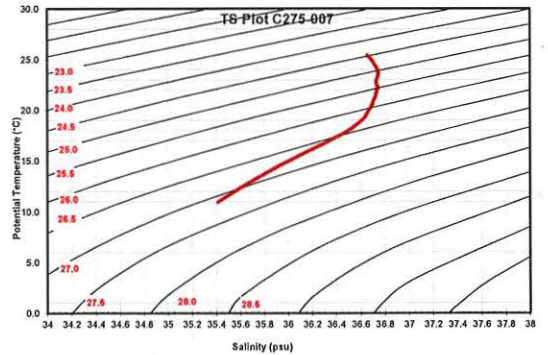
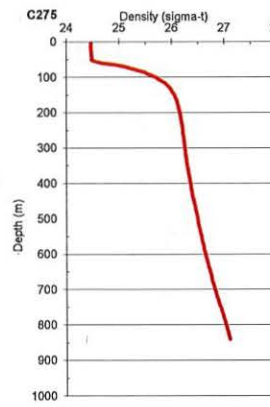
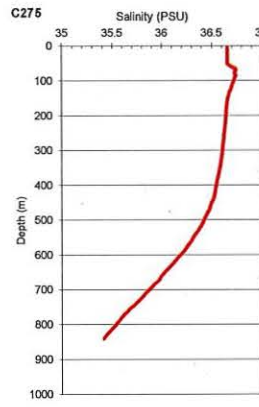
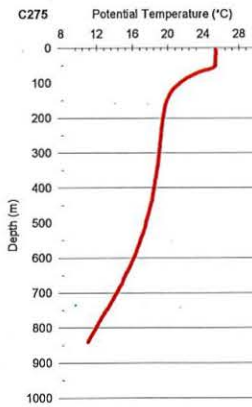


APPENDIX E. C275 CTD STATION PROFILES

C275 005 N. Sargasso Sea 2 35°15.4' N 68°5.7' W

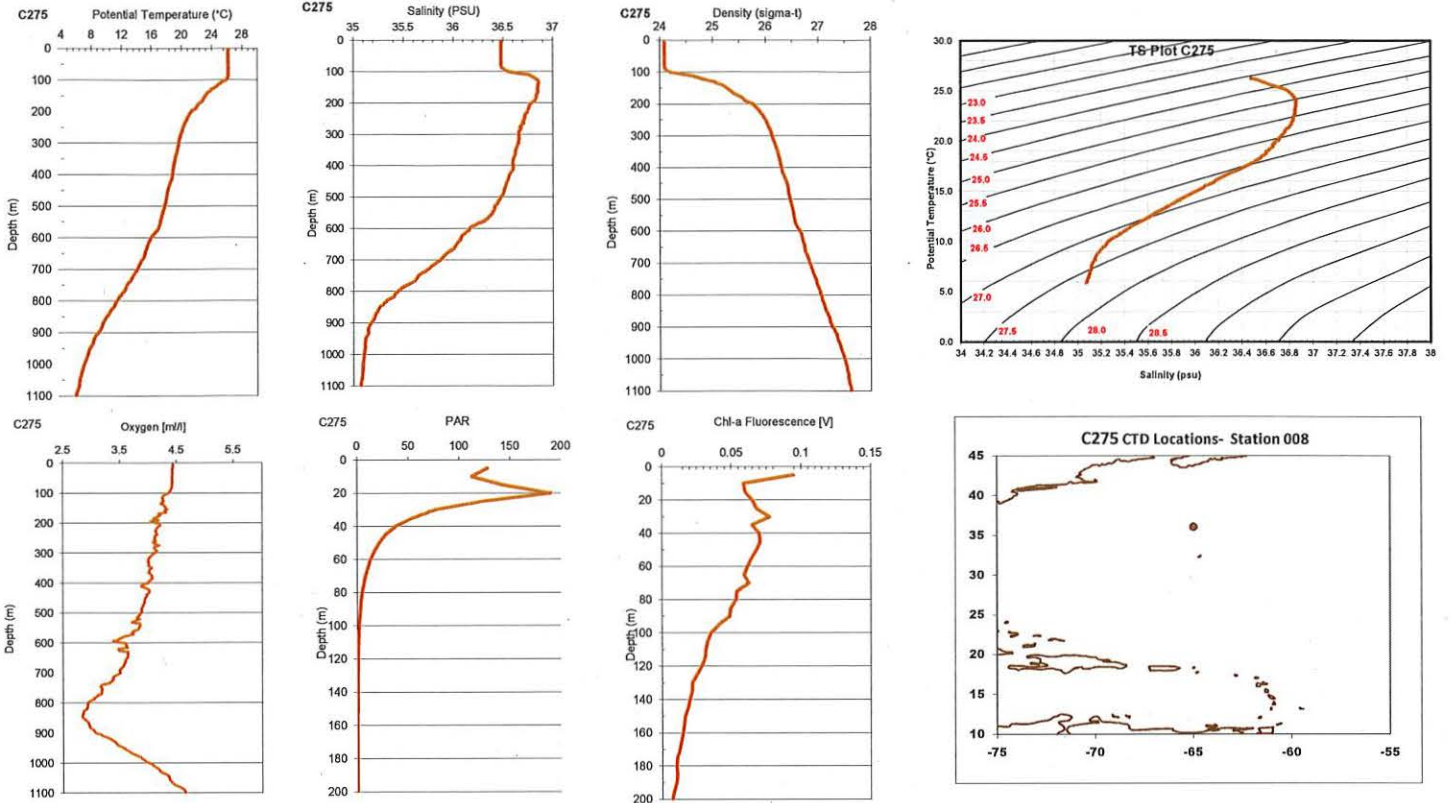


C275 007 N. Sargasso Sea 3 34°53.9' N 68°18.5'

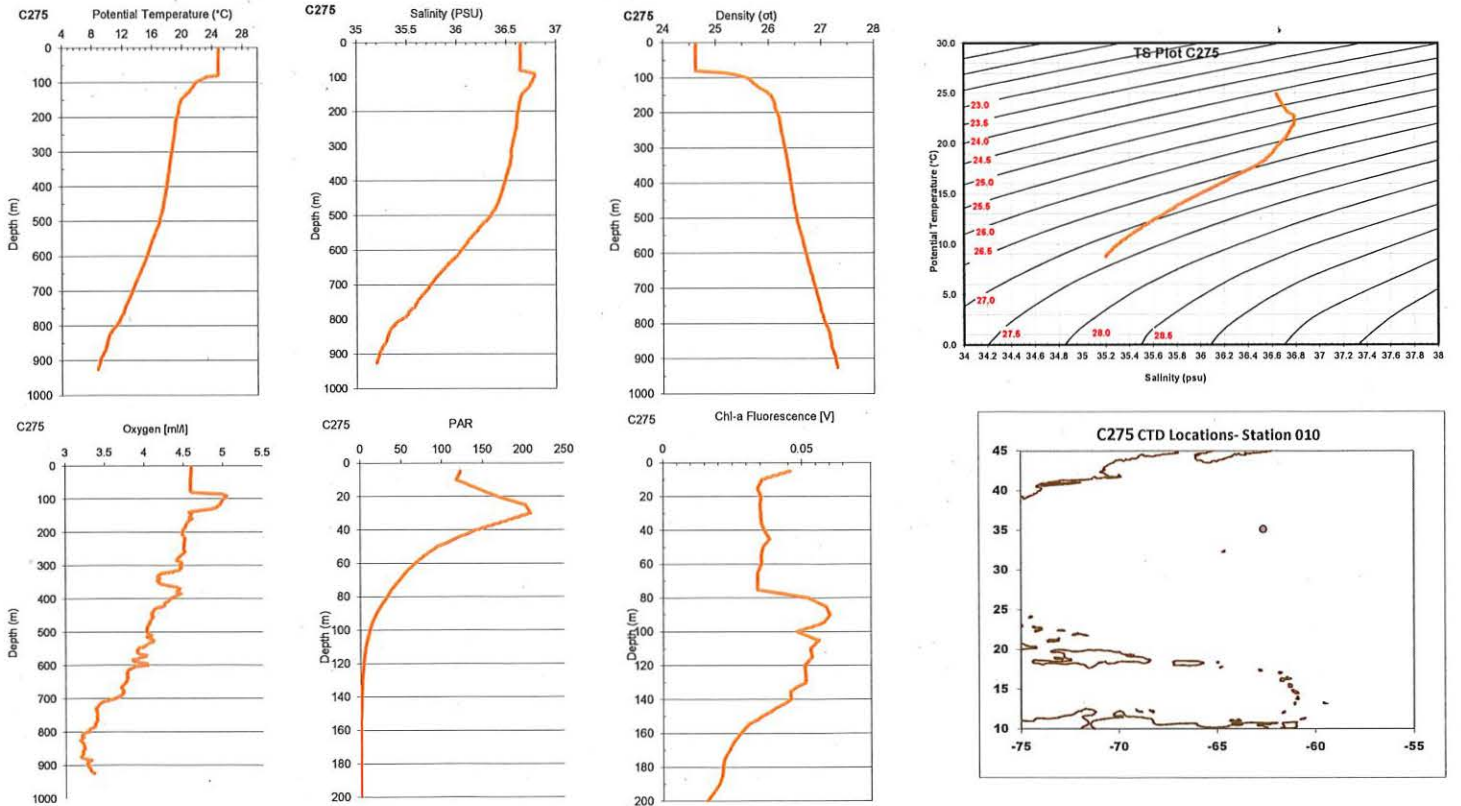


APPENDIX E. C275 CTD STATION PROFILES

C275 008 N. Sargasso Sea 4 36°3.4' N 64°57.7'

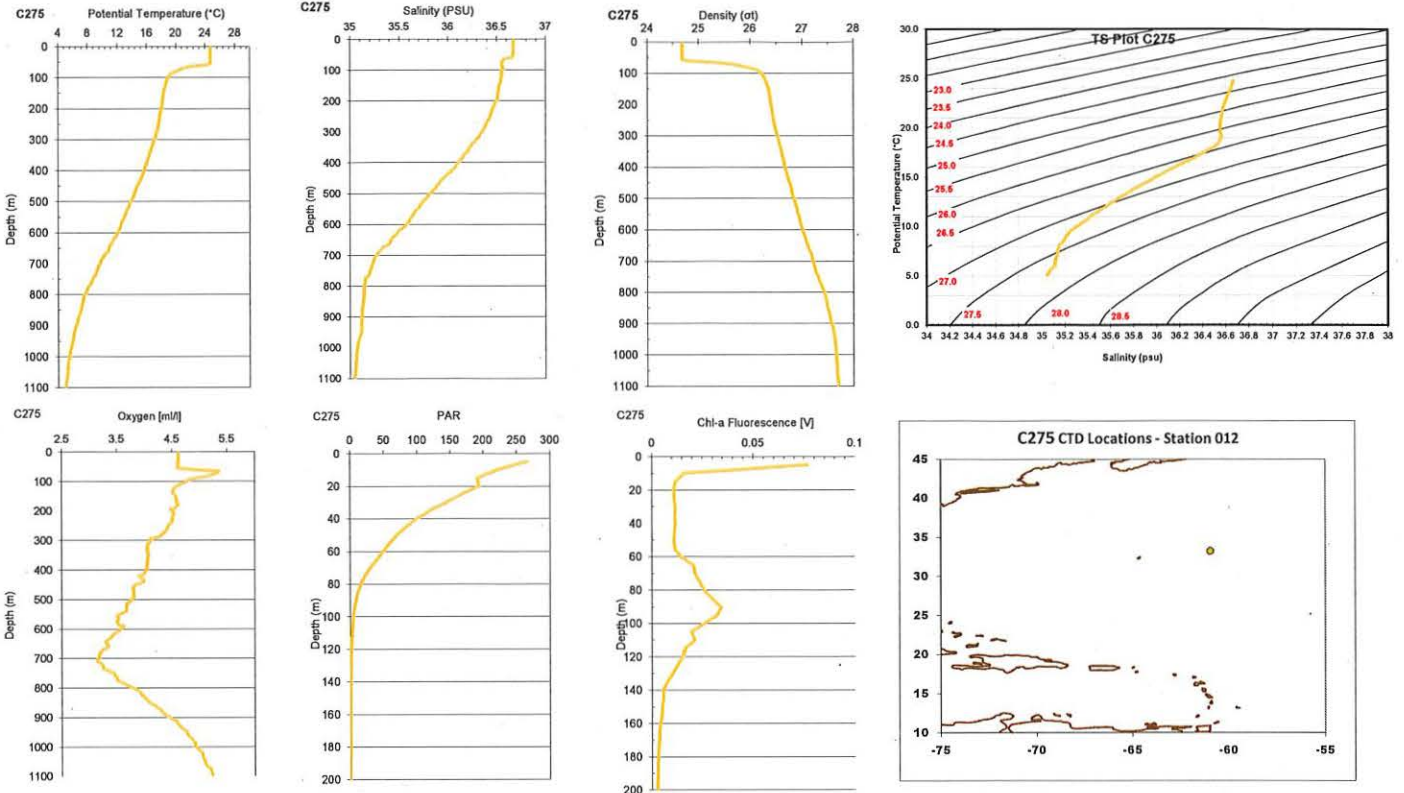


C275 010 N. Sargasso Sea 5 35°8.5' N 62°39.0' W

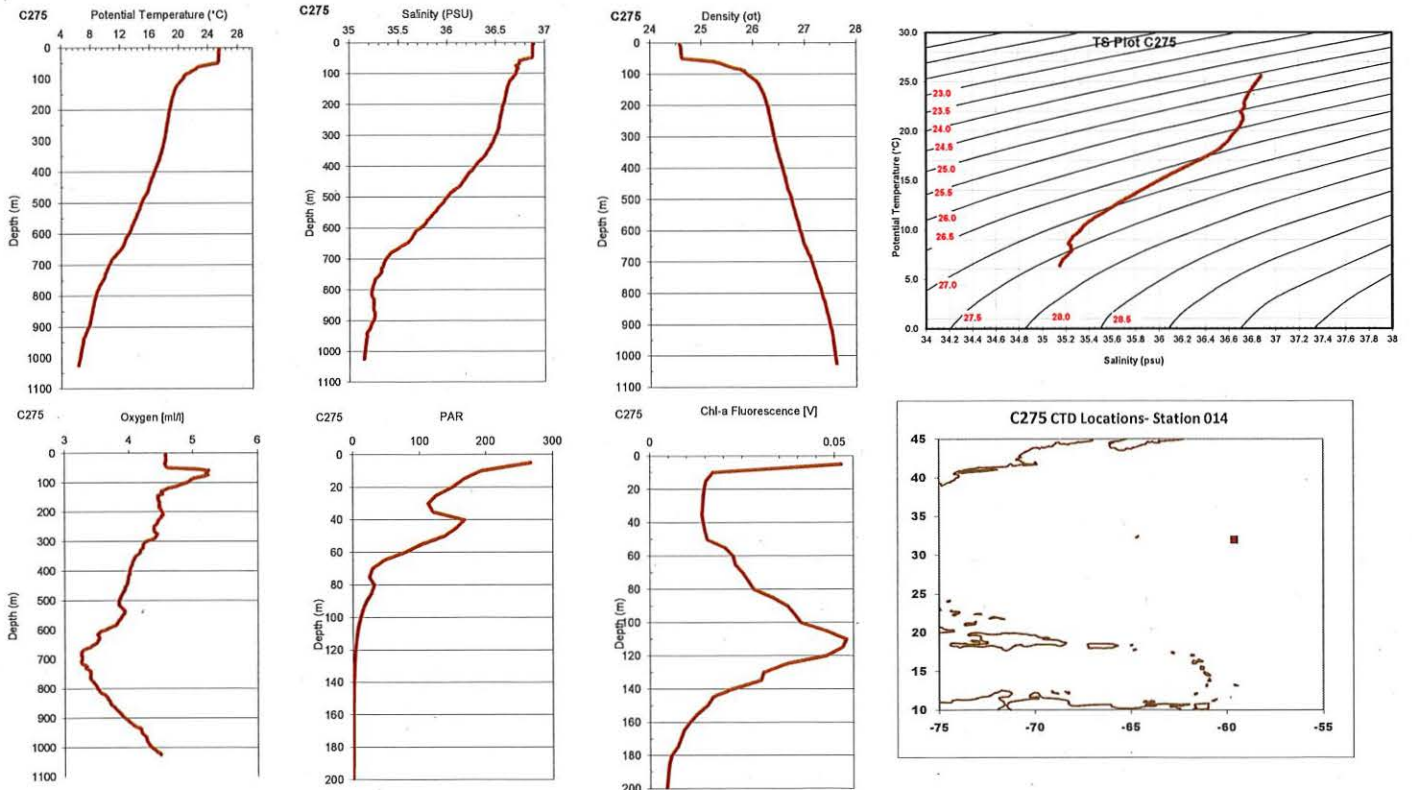


APPENDIX E. C275 CTD STATION PROFILES

C275 012 N. Sargasso Sea 6 33°14.6' N 60°56.4' W

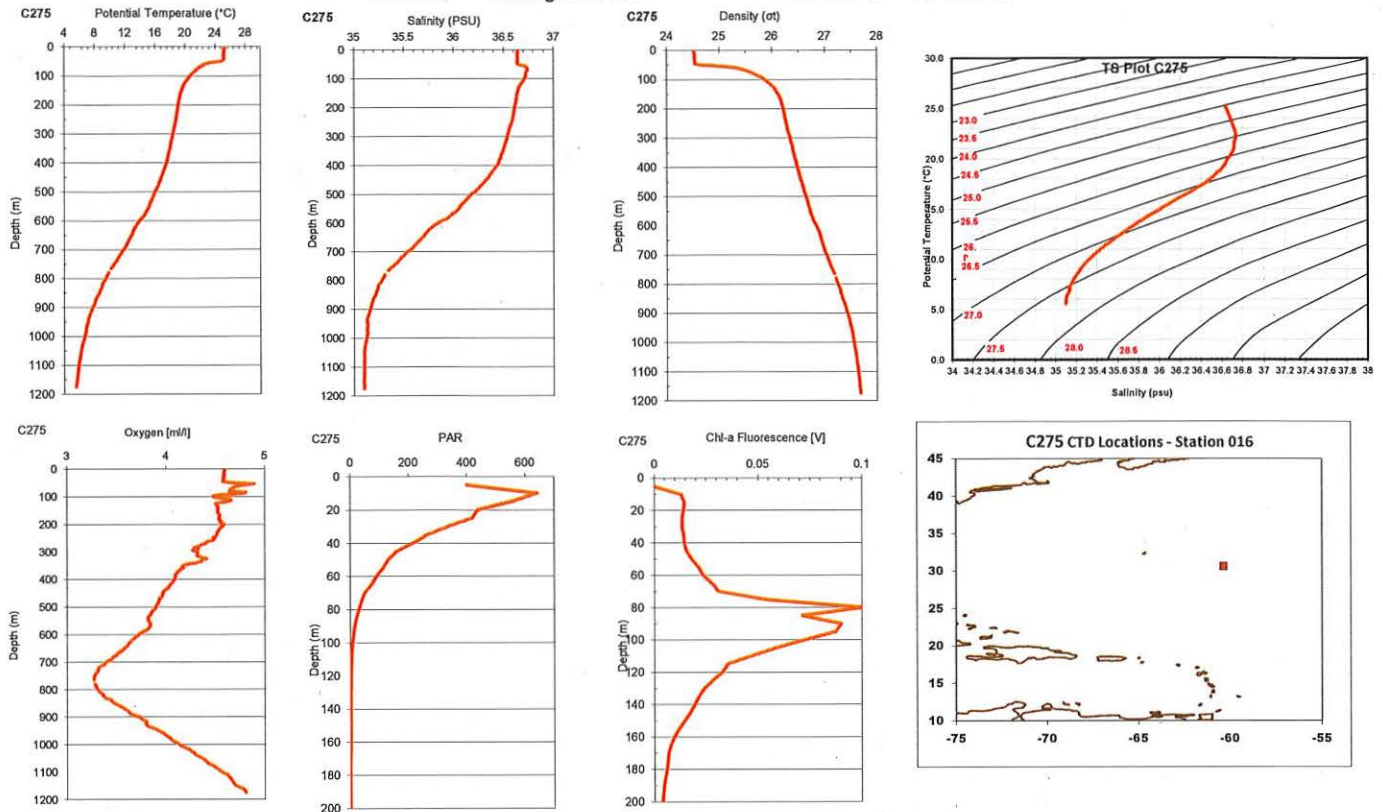


C275 014 S. Sargasso Sea 1 31°59.1' N 59°35.7' W

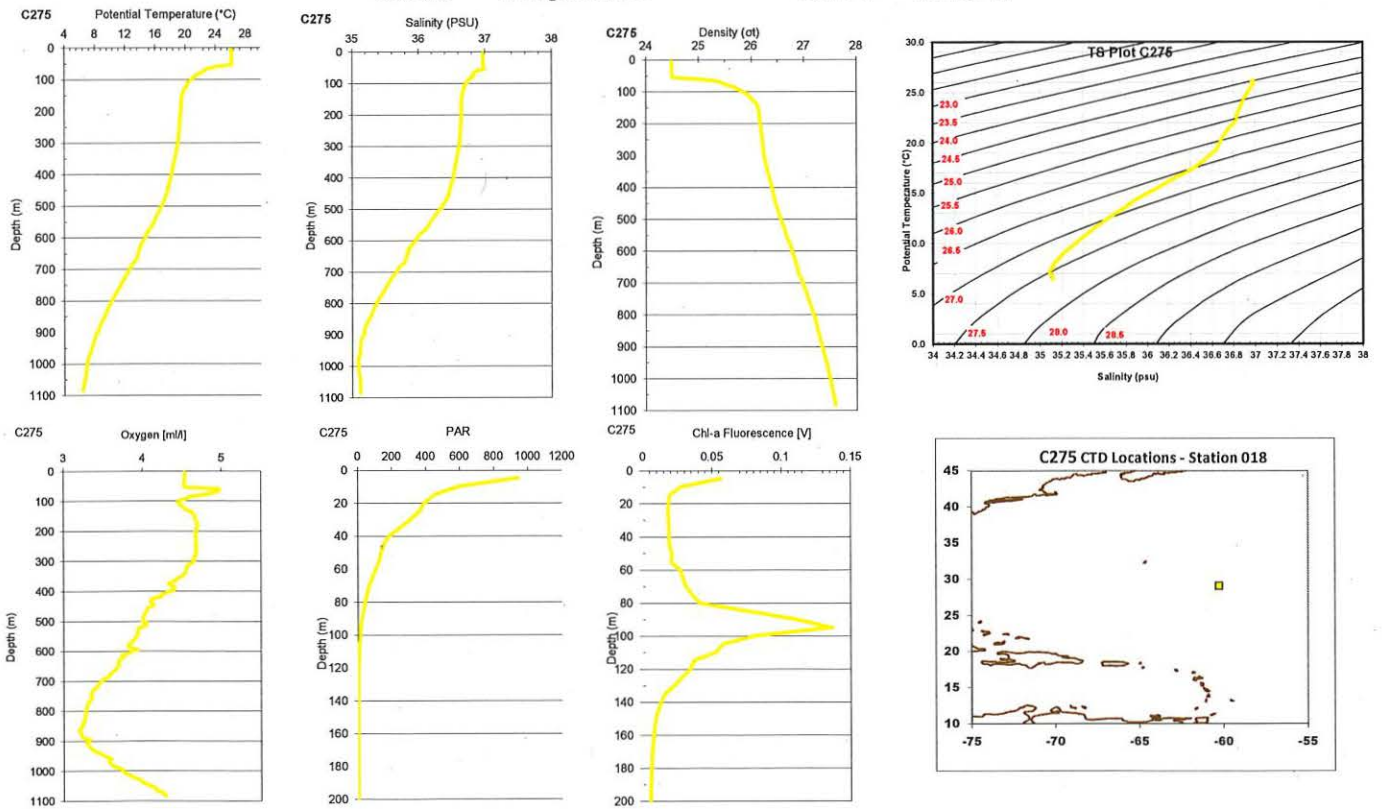


APPENDIX E. C275 CTD STATION PROFILES

C275 016 S. Sargasso Sea 2 30°36.6' N 60°20.9' W

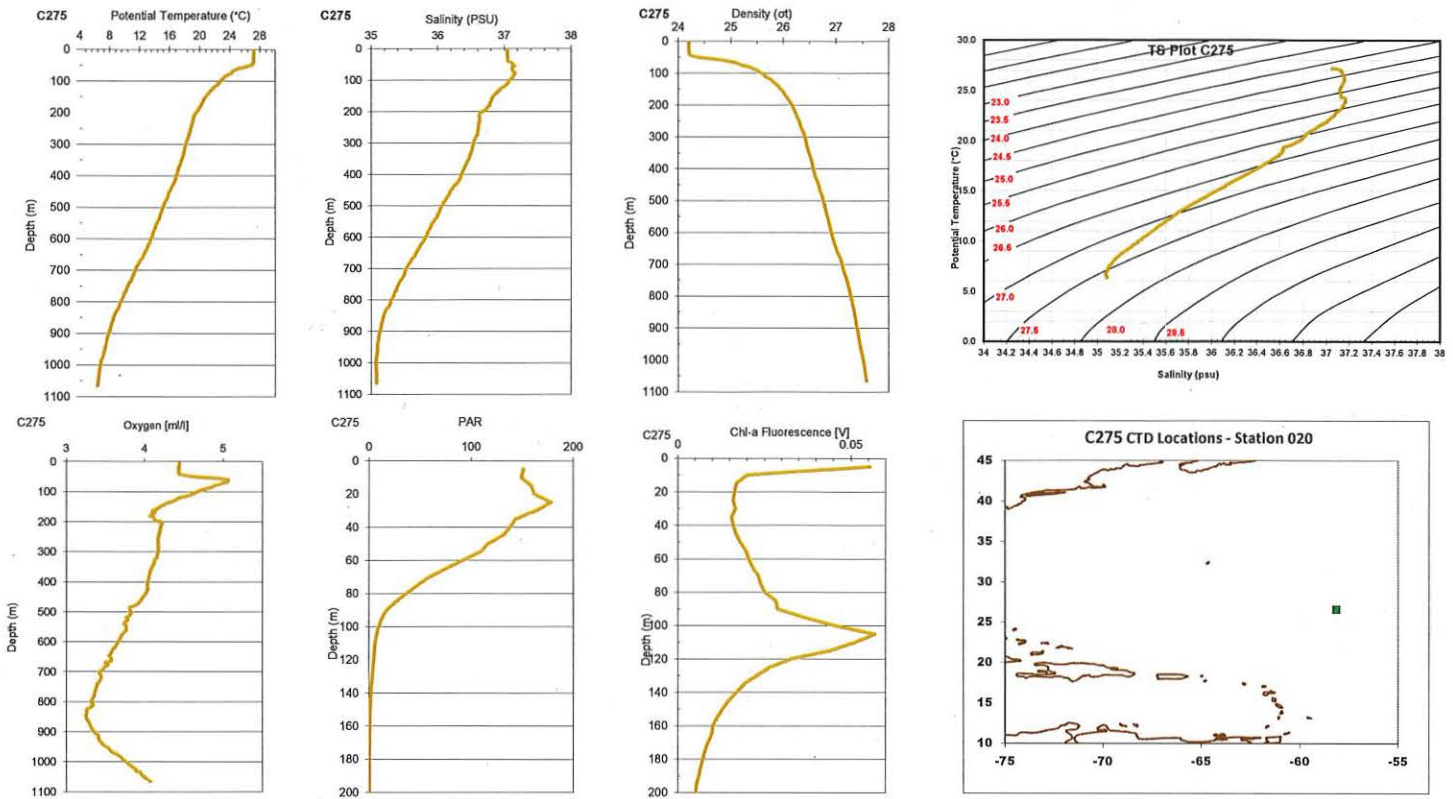


C275 018 S. Sargasso Sea 3 29°6.5' N 60°16.6' W

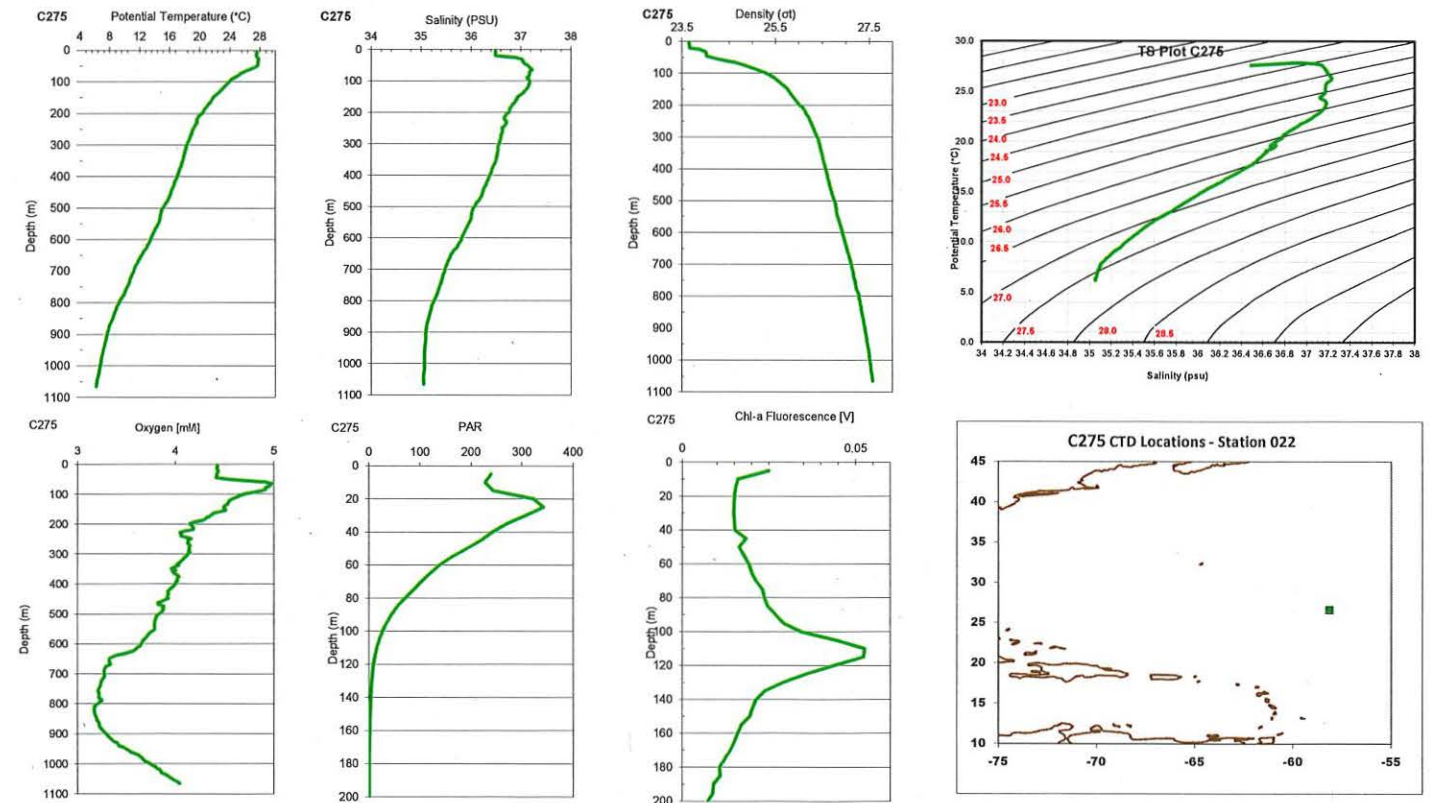


APPENDIX E. C275 CTD STATION PROFILES

C275 020 S. Sargasso Sea 4 27°45.8' N 59°29.1' W

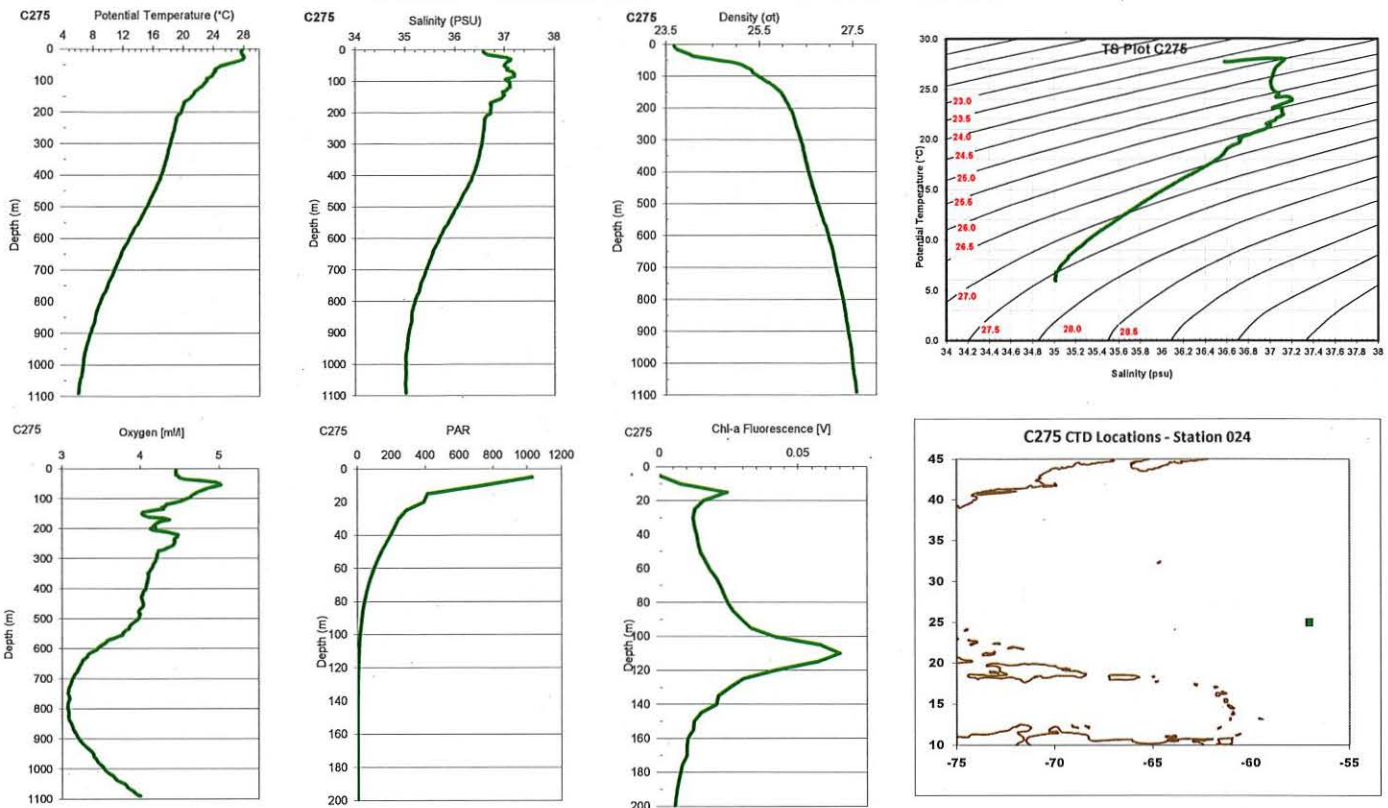


C275 022 S. Sargasso Sea 5 26°37.0' N 58°8.7' W

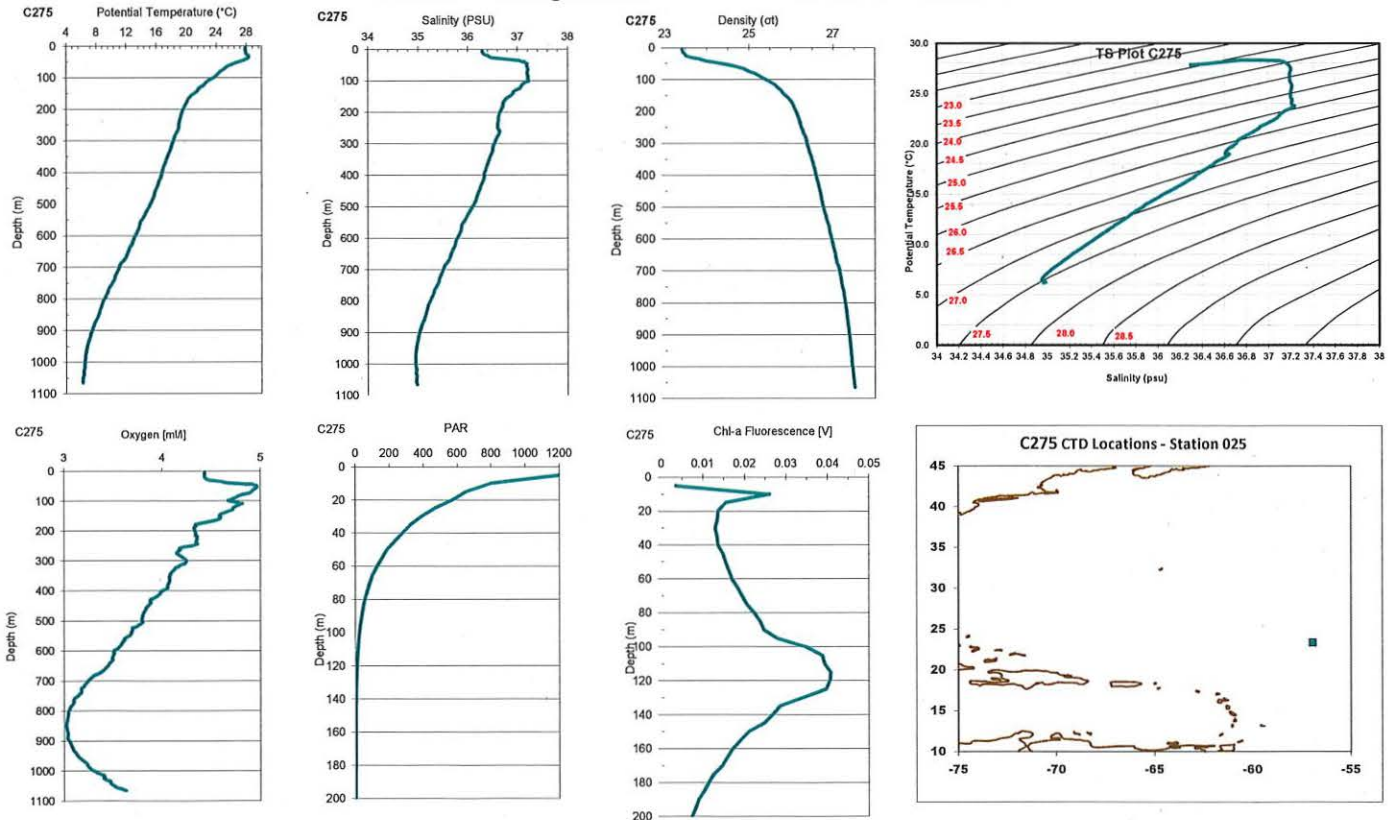


APPENDIX E. C275 CTD STATION PROFILES

C275 024 S. Sargasso Sea 6 25°0.1' N 57°2.1' W



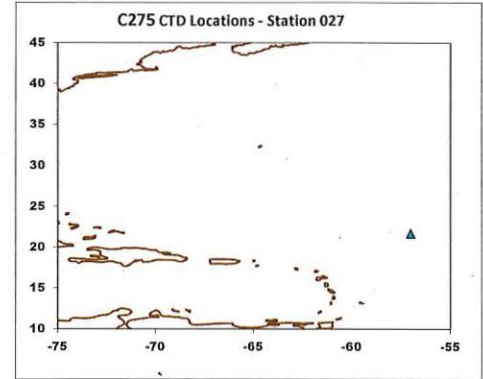
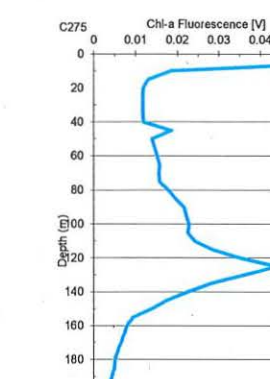
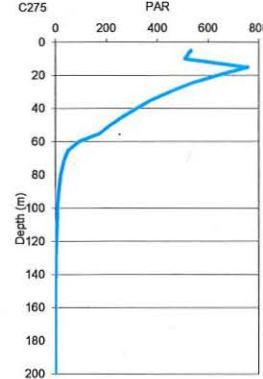
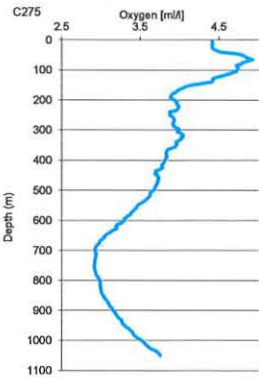
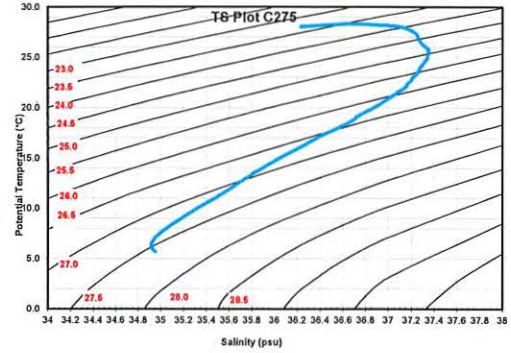
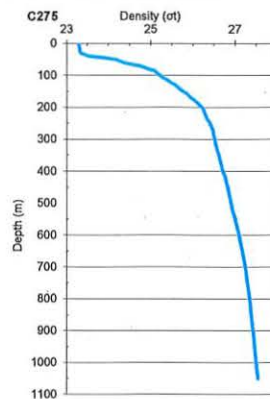
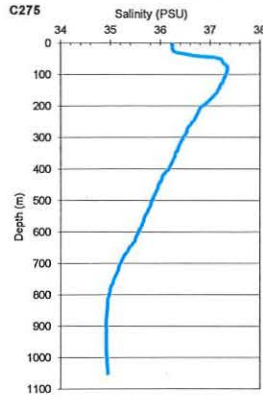
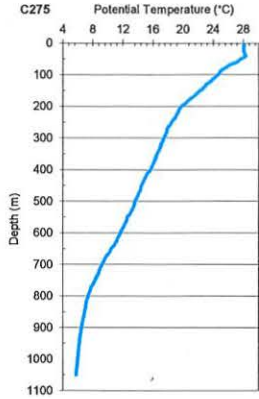
C275 025 S. Sargasso Sea 7 23°20.8' N 56°57.2' W



APPENDIX E. C275 CTD STATION PROFILES

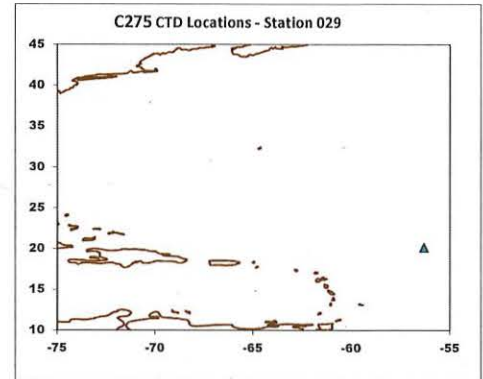
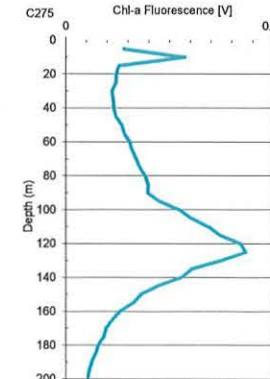
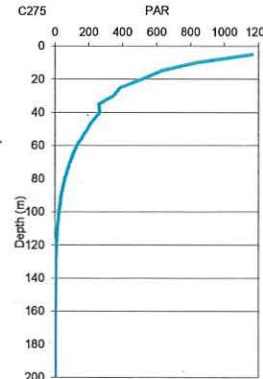
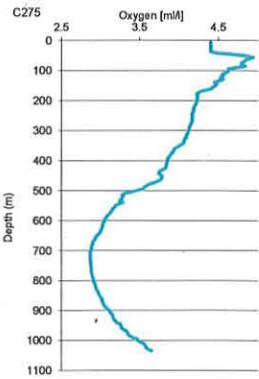
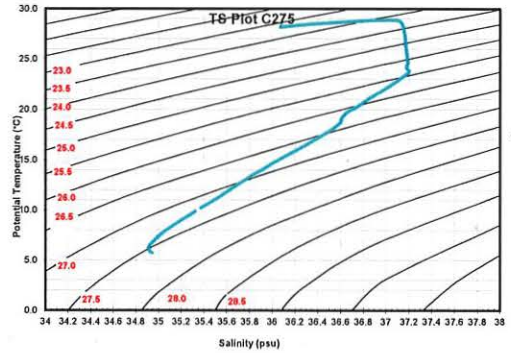
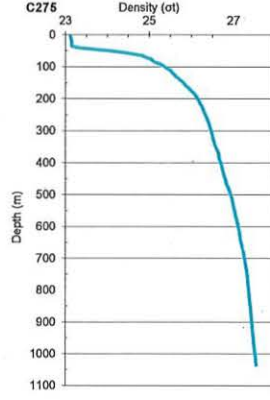
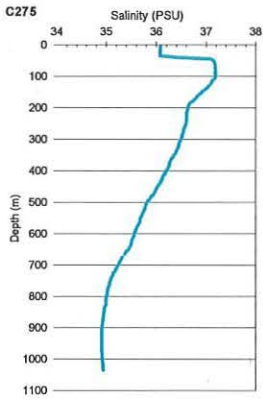
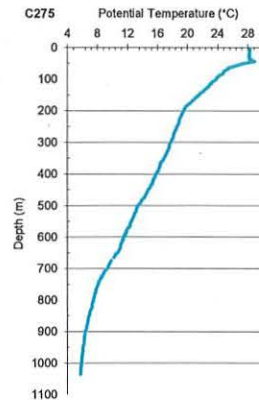
C275 027 Subtropical to Tropical Transition Zone 1

21°40.2' N 57°0.7' W



C275 029 Subtropical to Tropical Transition Zone 2

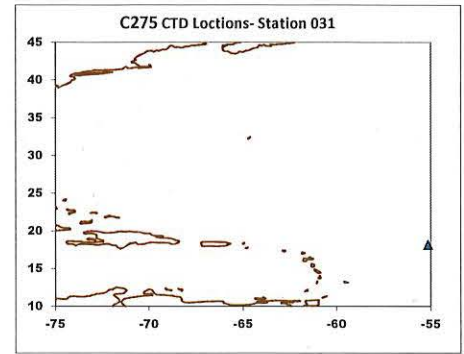
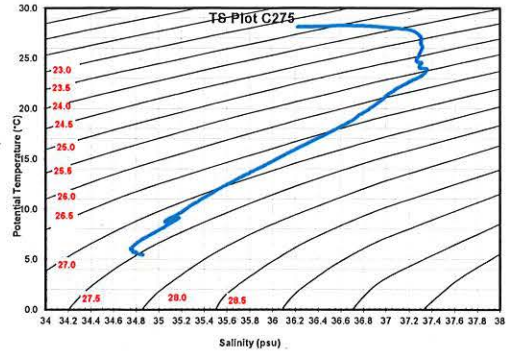
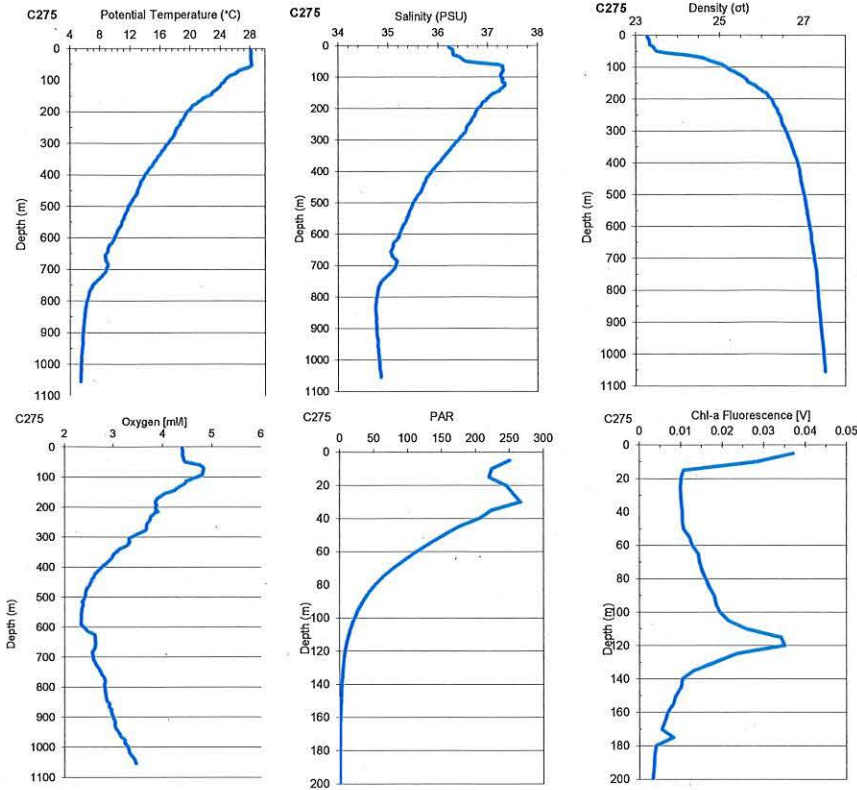
20°9.0' N 56°18.8' W



APPENDIX E. C275 CTD STATION PROFILES

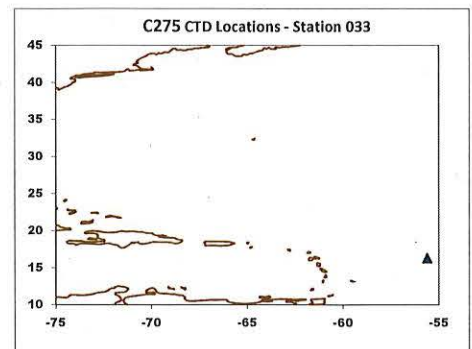
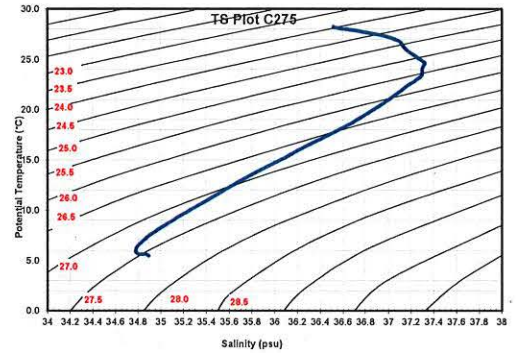
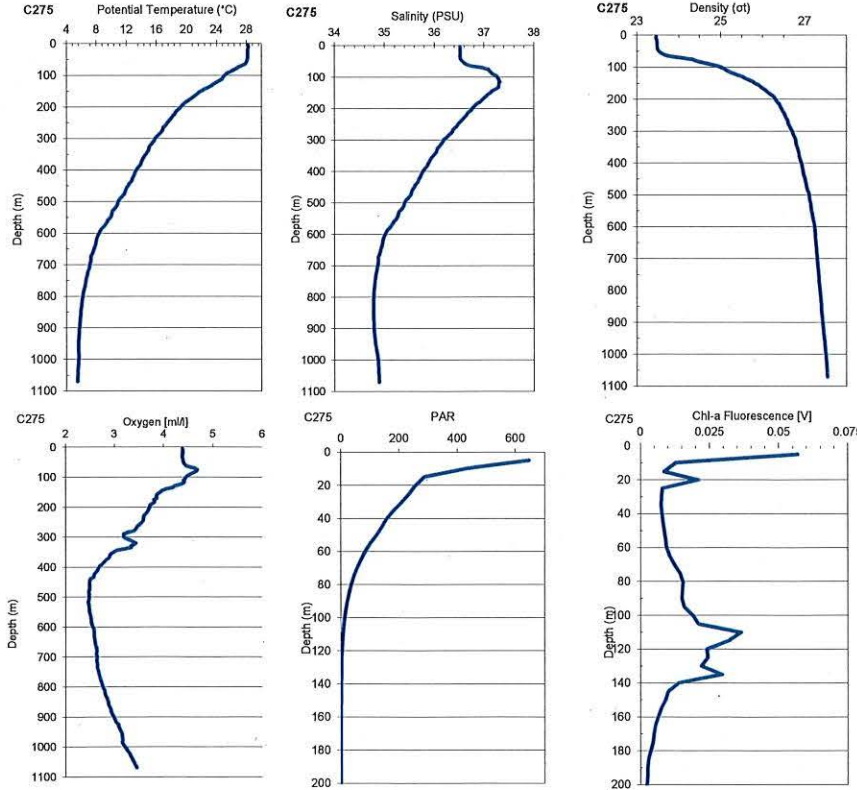
C275 031 Subtropical to Tropical Transition Zone 3

18°8.9' N 55°8.3' W



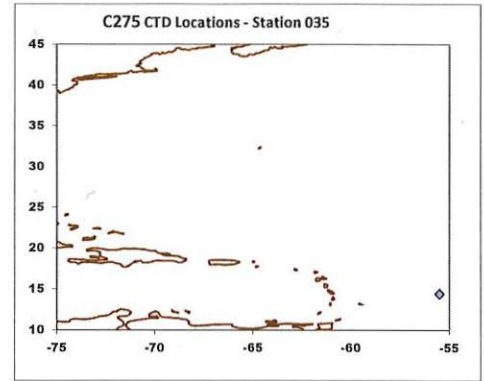
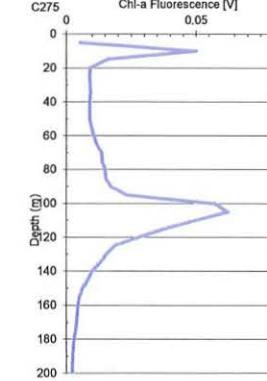
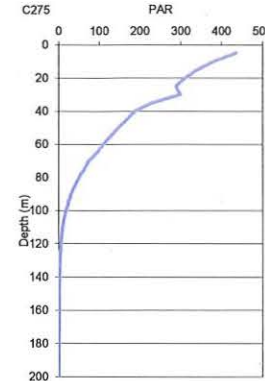
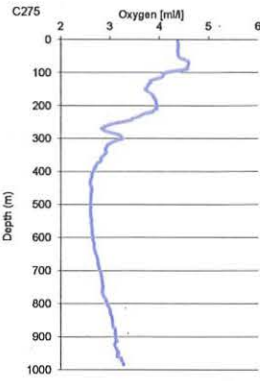
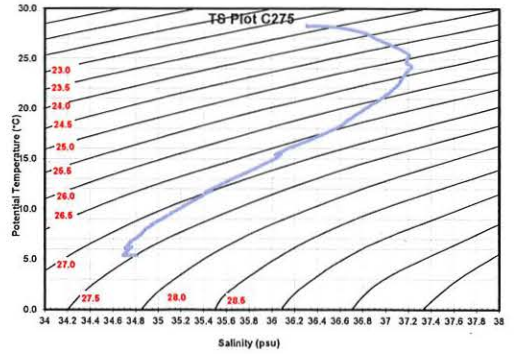
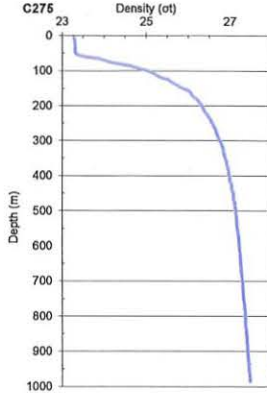
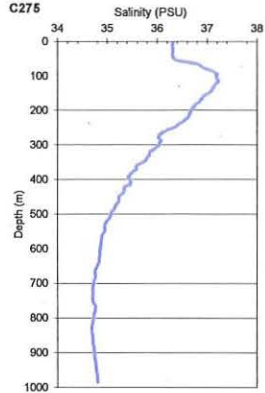
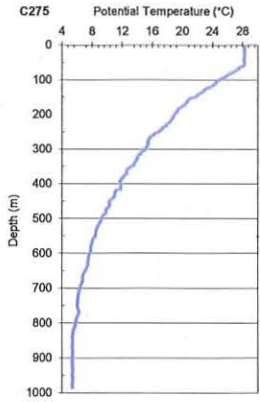
C275 033 Subtropical to Tropical Transition Zone 4

16°17.4' N 55°36.5' W

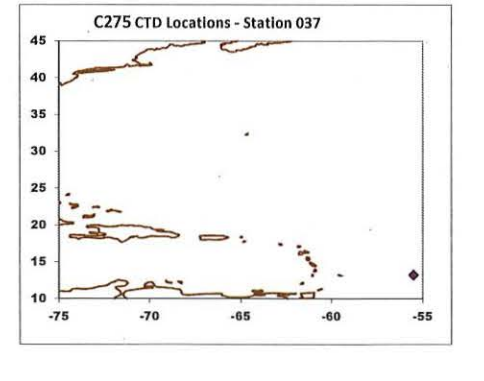
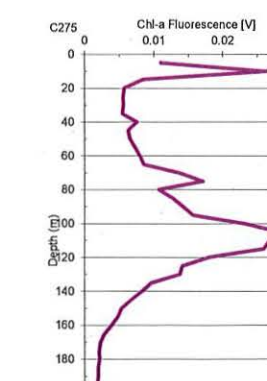
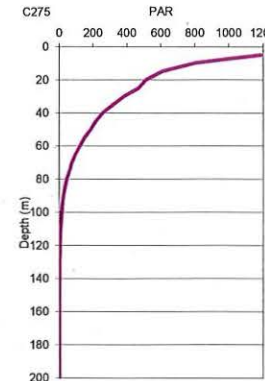
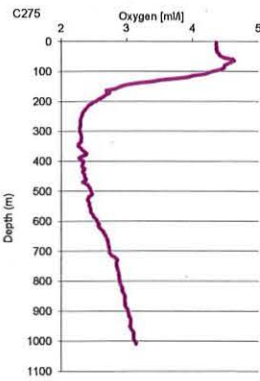
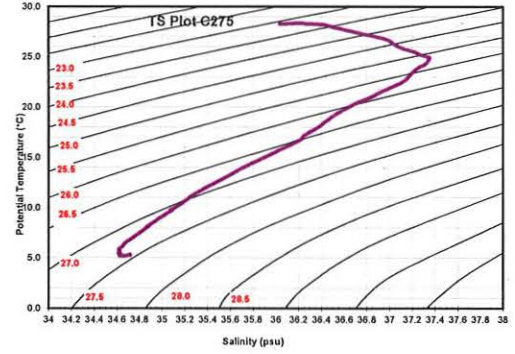
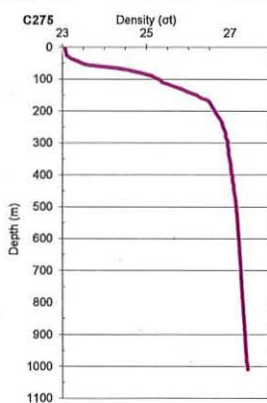
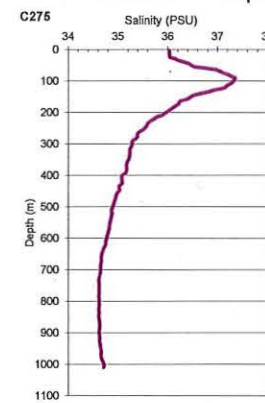
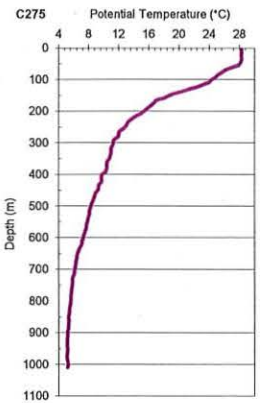


APPENDIX E. C275 CTD STATION PROFILES

C275 035 Tropical Water 1 14°27.9' N 55°29.9' W

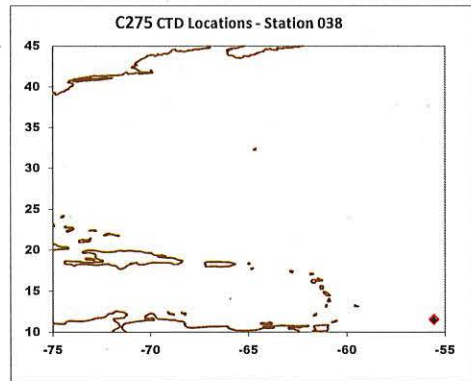
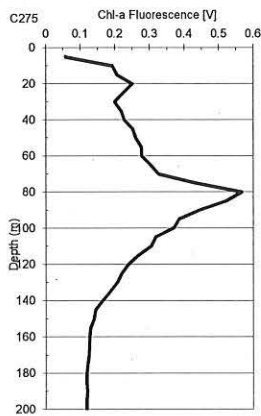
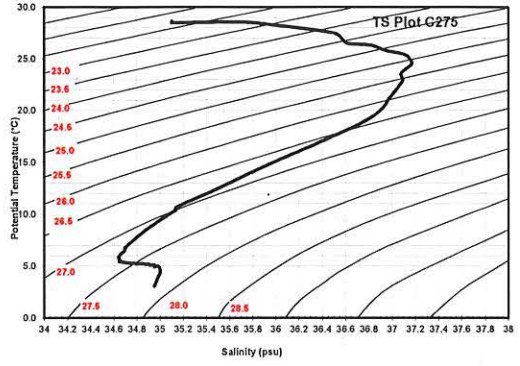
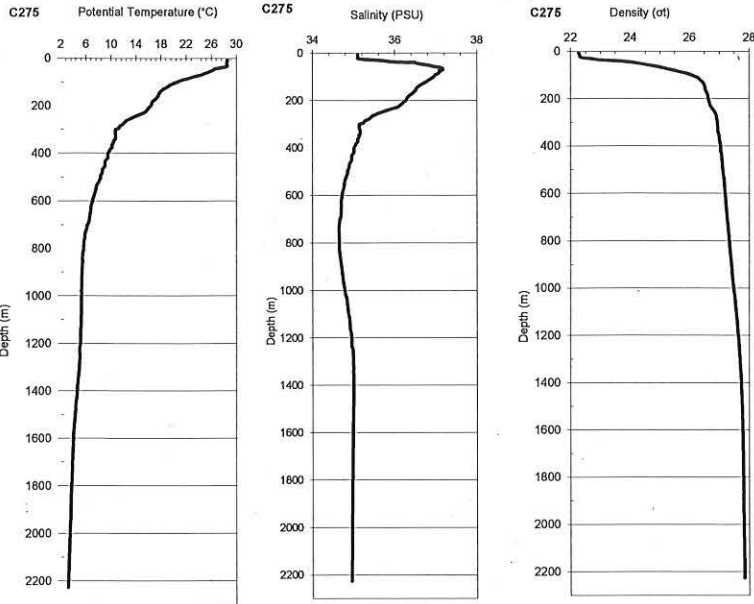


C275 037 Tropical Water 2 13°14.0' N 55°29.5' W



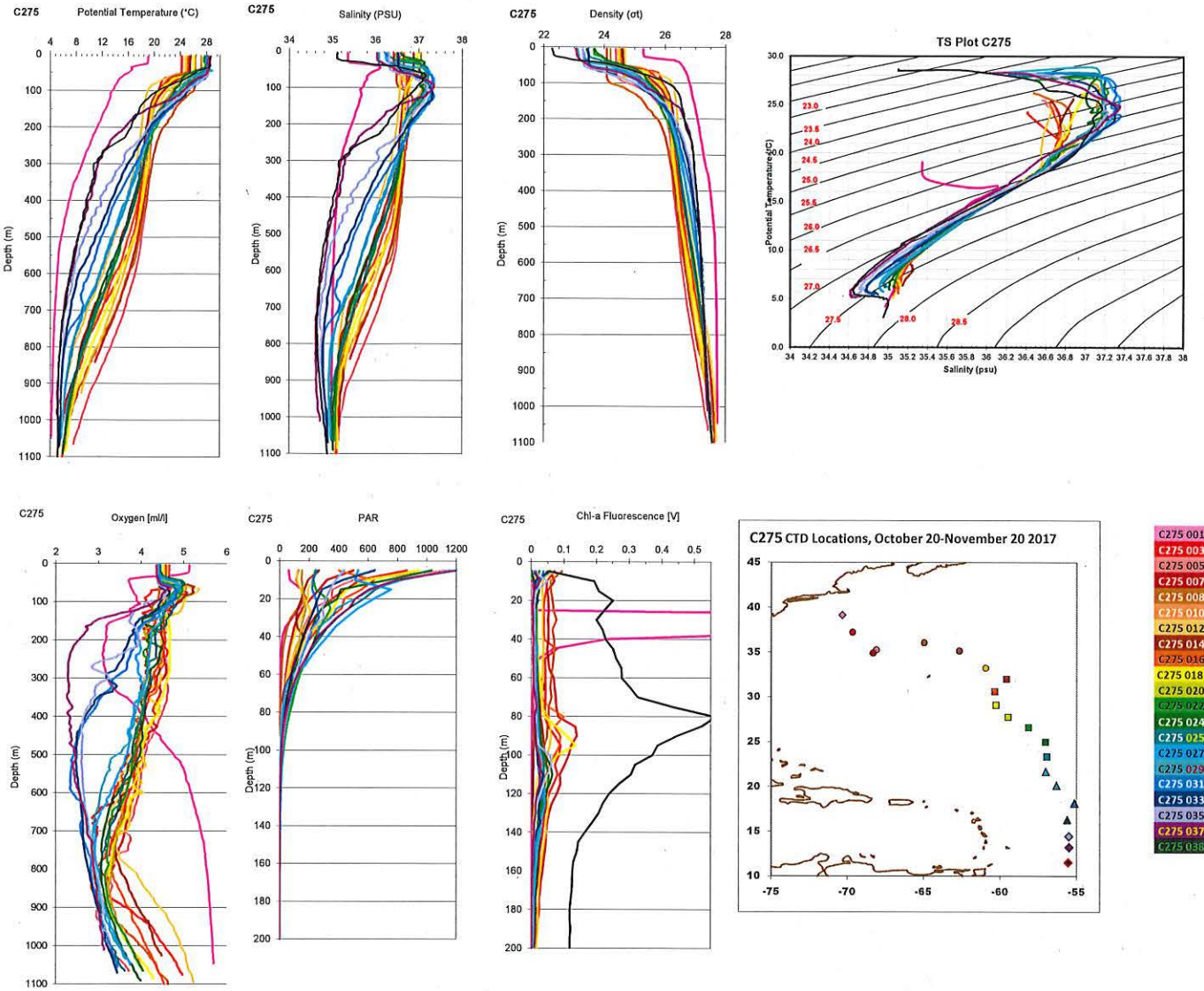
APPENDIX E. C275 CTD STATION PROFILES

C275 038 Tropical Water 3 11°32.0' N 55°32.7'



APPENDIX E. C275 CTD STATION PROFILES

C275: All CTD Stations



STATION	DATE	TIME	LOG	LAT.	LONG.	GENERAL LOCALE	SURF. TEMP	SURF. CHLOR	SURF. SALIN	TOW DIST.	ZOOPL. VOL	ZOOPL. Density	PLASTIC (Pellets)	PLASTIC (Pieces)	TAR (pieces)	SARGASSUM					PHYLLLO-SOMA	LEPTO-CEPHALI	HALO-BATES	
																<i>S.natans</i> I	<i>S.natans</i> II	<i>S. natans</i> VIII (g)	<i>S.fluitans</i> III (g)	Other Sargassum (g)				
C275	2017	(local)	(nm)	(°N)	(°W)		(°C)	(ug/l)	(PSU)	(m)	(ml)	(ml/100m ²)				(g)	(g)	VIII (g)	III (g)	(g)				
001	10/21	1202	139.9	39°8.5'	70°18.7'	Slope Water	19.2	0.120	35.30	1369	32.3	2.36	0	0	0	3.0	0.0	550.0	5.0	0.0	0	0	0	
002	10/21	2213	158.5	38°47.9'	70°7.4'	Slope Water	20.7	0.253	34.90	2938	31.0	1.06	0	12	0	0.0	6.0	5.0	0.0	0.0	7	0	0	
003	10/22	1138	252.1	37°12.1'	69°35.3'	North Sargasso Sea	24.4	0.032	35.74	3394	5.0	0.15	0	57	0	54.0	0.0	63.0	208.0	43.0	0	0	0	
004	10/22	2332	336.1	36°8.5'	68°20.1'	North Sargasso Sea	25.5	0.117	35.30	1828	5.5	0.30	0	6	0	0.0	0.0	185.0	0.0	0.0	0	0	0	
005	10/23	1151	389.9	35°15.2'	68°8.9'	North Sargasso Sea	25.5	0.091	36.51	3155	0.6	0.02	0	13	0	0.0	0.0	0.0	20.0	0.0	0	0	0	
006	10/23	2206	431.1	34°40.9'	68°30.5'	North Sargasso Sea	25.6	0.073	36.54	2348	5.5	0.23	1	7	0	2.0	0.0	50.0	128.0	0.0	0	0	0	
007	10/24	1207	480.8	34°54.8'	68°23.8'	North Sargasso Sea	25.5	0.062	36.61	2735	3.5	0.13	0	4	0	0.0	0.0	0.3	11.7	0.0	0	0	0	
008	10/27	1146	634.0	36°1.7'	64°56.5'	North Sargasso Sea	26.3	0.232	36.44	2298	2.8	0.12	0	2	0	3.0	0.0	0.0	89.0	0.0	0	0	0	
009	10/27	2338	-	35°42.8'	63°40.4'	North Sargasso Sea	25.3	0.200	36.40	1552	12.0	0.77	0	8	0	0.2	0.0	0.0	40.0	0.0	0	9	0	
010	10/28	1123	761.2	35°6.3'	62°37.7'	North Sargasso Sea	25.0	0.088	36.62	1739	2.5	0.14	0	14	0	3.0	0.0	0.0	30.0	0.0	0	0	0	
011	10/28	2329	841.5	34°11.6'	61°38.3'	North Sargasso Sea	24.6	0.090	36.64	1105	10.0	0.90	1	19	0	39.0	0.0	0.0	320.0	0.0	2	1	0	
012	10/29	1104	915.5	33°14.7'	60°56.6'	North Sargasso Sea	24.8	0.083	36.63	997	2.8	0.28	0	14	0	4.0	0.0	0.0	157.0	0.0	0	0	0	
013	10/30	0003	979.9	32°22.1'	60°29.0'	North Sargasso Sea	24.8	0.044	36.61	2376	4.7	0.20	0	75	0	2.5	0.0	0.7	47.7	0.0	0	0	0	
014	10/30	1121	1036.2	31°58.8'	59°37.1'	South Sargasso Sea	25.8	0.055	36.84	2266	3.0	0.13	0	284	0	0.0	0.0	0.0	7.0	0.0	0	0	2	
015	10/30	2336	1086.0	31°10.8'	60°5.6'	South Sargasso Sea	25.3	0.028	36.70	2175	19.0	0.87	0	211	0	2.0	55.0	11.0	786.0	93.0	0	0	1	
016	10/31	1138	1118.2	30°35.8'	60°22.3'	North Sargasso Sea	25.3	0.042	36.60	1429	3.0	0.21	0	18	0	0.0	0.0	3.0	129.0	0.0	0	0	0	
017	10/31	2331	1163.5	29°46.4'	60°18.8'	South Sargasso Sea	26.4	0.023	37.01	2040	1.7	0.08	3	44	0	0.2	5.1	0.0	210.0	0.0	0	0	1	
018	11/1	1109	1196.2	29°6.1'	60°18.1'	South Sargasso Sea	26.2	0.036	36.90	1154	2.0	0.17	1	53	0	0.0	0.0	0.0	18.0	13.0	0	0	0	
019	11/1	2320	1240.3	28°21.7'	59°56.4'	South Sargasso Sea	27.1	0.032	37.19	1673	1.4	0.08	0	11	0	0.0	0.0	8.0	12.5	0.0	0	4	6	
020	11/2	1120	1277.5	27°45.0'	59°29.5'	South Sargasso Sea	27.3	0.041	37.00	2203	1.3	0.06	0	2	0	0.0	7.5	0.0	0.1	0.0	0	0	1	
021	11/2	2214	1227.5	27°8.9'	58°48.1'	South Sargasso Sea	27.4	0.021	37.04	1905	1.5	0.08	0	7	0	0.0	0.0	8.5	0.0	0.0	0	2	2	
022	11/3	1128	1378.7	26°36.8'	58°9.7'	South Sargasso Sea	27.7	0.028	36.46	807	1.2	0.15	0	24	0	0.0	0.0	0.0	4.4	0.0	0	0	7	
023	11/3	2232	1423.4	26°7.7'	57°36.5'	South Sargasso Sea	27.8	0.022	36.44	2097	13.0	0.62	0	7	0	0.0	0.0	0.0	0.0	0.0	0	0	14	
024	11/4	1112	1500.2	25°0.5'	57°1.9'	South Sargasso Sea	27.9	0.091	36.52	2171	1.2	0.06	0	57	0	0.0	3.5	0.0	0.0	0.0	0.0	0	0	19
025	11/5	1123	1601.2	23°20.1'	56°57.8'	South Sargasso Sea	28.5	0.023	36.29	1916	31.0	1.62	0	41	0	0.0	4.0	0.0	0.0	0.0	0	0	7	
026	11/5	2330	1632.8	22°39.7'	56°58.7'	South Sargasso Sea	27.9	0.096	36.13	3618	3.5	0.10	0	118	0	0.0	0.0	16.0	8.0	0.0	0	0	25	
027	11/6	1126	1695.0	21°40.0'	57°1.5'	Transition Zone	28.2	0.267	36.17	1363	2.0	0.15	0	53	0	0.0	0.0	13.0	0.0	0.0	0	0	14	
028	11/6	2321	1738.5	20°59.3'	56°43.9'	Transition Zone	28.2	0.027	36.24	1516	4.5	0.30	0	15	0	0.0	0.0	7.4	0.0	0.0	0	0	5	
029	11/7	1036	1795.0	20°3.5'	56°20.1'	Transition Zone	28.4	0.030	36.04	1616	1.0	0.06	0	18	0	0.0	0.0	5.0	0.0	0.0	0	0	3	
030	11/7	2158	1845.4	19°18.4'	56°5.9'	Transition Zone	28.2	0.024	36.20	1462	3.5	0.24	0	1	0	0.0	0.0	10.0	0.0	0.0	0	0	6	
031	11/8	1119	-	18°8.4'	55°39.2'	Transition Zone	28.2	0.033	36.17	1986	12.0	0.60	0	9	0	0.0	0.0	101.0	0.0	0.0	0	0	1	
032	11/8	2332	1974.9	17°7.5'	55°32.7'	Transition Zone	28.2	0.040	36.30	2174	5.8	0.26	0	3	0	0.0	0.0	80.0	0.0	0.0	0	0	13	
033	11/9	1207	2025.3	16°17.4'	55°35.5'	Transition Zone	28.3	0.080	36.48	2061	2.0	0.10	0	1	0	0.0	0.0	34.0	0.0	0.0	0	0	0	
034	11/9	2336	2085.6	15°14.9'	55°32.6'	Transition Zone	28.2	0.048	36.01	1988	23.0	1.16	0	1	0	0.4	0.0	605.0	35.0	0.0	0	0	2	
035	11/10	1125	2128.5	14°27.3'	55°31.3'	Tropical Zone	28.4	0.067	36.26	1764	4.0	0.23	0	0	0	0.0	0.0	151.0	0.0	0.0	0	0	0	
036	11/10	2204	2159.3	13°50.5'	55°29.0'	Tropical Zone	28.4	-	36.05	1757	18.0	1.02	0	0	0	20.0	0.0	268.0	23.0	23.0	0	0	10	
037	11/11	1124	2185.5	13°13.3'	55°31.0'	Tropical Zone	28.4	-	36.00	2112	na	-	0	0	0	4655.0	0.0	4274.0	12196.0	0.0	0	0	0	
038	11/12	1235	2287.9	11°31.8'	55°36.5'	Tropical Zone	28.7	-	34.91	1447	7.3	0.50	0	0	0	0.0	0.0	0.0	0.7	0.0	0	0	1	
039	11/14	1128	2539.0	12°11.7'	59°47.5'	Tropical Zone	28.4	-	35.29	2120	36.0	1.70	0	0	0	18.0	0.0	22.0	390.0	0.0	0	0	1	
040	11/14	2331	2582.6	12°14.4'	60°37.7'	Tropical Zone	28.5	-	34.79	1346	5.0	0.37	0	0	0	0.0	0.0	2.0	0.0	0.0	0	0	14	

APPENDIX F (cont.) C275 NET COLLECTIONS

C275 METER NET COLLECTIONS

COLLECTION	DATE	TIME	LOG	LAT.	LONG.	GENERAL LOCALE	NET TYPE	TOW TYPE	MESH SIZE	DEPTH	TOW VOL.	ZOOP. VOL.	ZOOPL. DEN.	Target Organism
C275		(local)	(NM)	(°N)	(°W)				(μ)	(m)	(m ³)	(ml)	(ml/100m ³)	
002	10/21	2124	157.7	38°49.3'	70°8.3'	Slope Water	1m	Stepped Oblique	333	87	1181.1	141.0	11.94	Pteropods
006	10/23	2108	429.6	34°42.2'	68°27.4'	North Sargasso Sea	1m	Stepped Oblique	333	55	1269.4	29.0	2.28	Pteropods
021	11/2	2115	1226.3	27°10.4'	58°48.4'	South Sargasso Sea	1m	Stepped Oblique	333	81	1141.6	38.0	3.33	Pteropods
030	11/7	2105	1843.3	19°20.1'	56°5.5'	Transition Zone	1m	Stepped Oblique	333	102	1044.7	19.0	1.82	Pteropods
036	11/10	2107	2157.4	13°52.6'	55°28.5'	Tropical Zone	1m	Stepped Oblique	333	110	964.1	65.0	6.74	Pteropods

C27 PHYTOPLANKTON NET COLLECTIONS

STATION	DATE	TIME	LOG	LAT.	LONG.	GENERAL LOCALE	SURF.TEMP.	SURF.SALINITY	CHLOR.	Diatoms	Dinoflagellates	<i>Trichodesmium</i>
C275	2017	(local)	(NM)	(°N)	(°W)		°C	PSU	(ug/l)	%	%	
001	10/21	0947	141.1	39°9.3'	70°18.2'	Slope Water	19.2	35.28	0.120	87.0%	13.0%	
003	10/22	0955	252.0	37°12.8'	69°35.0'	North Sargasso Sea	24.6	35.76	0.032	55.0%	45.0%	
005	10/23	0947	389.9	35°15.4'	68°5.3'	North Sargasso Sea	25.6	36.54	0.091	59.0%	41.0%	
007	10/24	1005	480.7	34°53.3'	68°16.9'	North Sargasso Sea	25.4	36.62	0.062	51.0%	49.0%	
008	10/27	0954	634.5	36°4.0'	64°58.0'	North Sargasso Sea	26.2	36.43	0.232	45.0%	55.0%	
010	10/28	0933	761.2	35°9.2'	62°39.3'	North Sargasso Sea	25.0	36.60	0.088	17.0%	83.0%	
012	10/29	0941	911.0	33°14.5'	60°56.4'	North Sargasso Sea	24.8	36.62	0.083	35.0%	65.0%	<i>Trichodesmium</i> present
014	10/30	0939	1036.0	31°59.2'	59°35.4'	North Sargasso Sea	25.7	36.84	0.055	45.0%	55.0%	
016	10/31	0950	1117.8	30°36.8'	60°20.5'	South Sargasso Sea	25.3	36.60	0.042	43.0%	57.0%	<i>Trichodesmium</i> present
018	11/1	0934	1196.2	29°6.6'	60°16.3'	South Sargasso Sea	26.2	36.91	0.036	65.0%	35.0%	<i>Trichodesmium</i> present
020	11/2	0940	1277.4	27°16.5'	59°28.6'	South Sargasso Sea	27.3	37.01	0.041	64.0%	36.0%	
022	11/3	0951	1378.6	26°37.1'	58°8.4'	South Sargasso Sea	27.6	36.48	0.028	75.0%	25.0%	
024	11/4	0942	1501.0	24°59.9'	57°2.1'	South Sargasso Sea	27.9	36.58	0.091	52.0%	48.0%	<i>Trichodesmium</i> present
025	11/5	0944	1601.5	23°20.9'	56°57.1'	South Sargasso Sea	28.0	36.28	0.023	73.0%	27.0%	
027	11/6	0942	1695.9	21°40.2'	57°0.5'	Transition Zone	28.2	36.24	0.267	85.0%	15.0%	<i>Trichodesmium</i> present
029	11/7	0949	1795.0	20°4.2'	56°18.5'	Transition Zone	28.3	36.04	0.030	84.0%	16.0%	<i>Trichodesmium</i> present
031	11/8	0947	1916.0	18°9.0'	55°38.1'	Transition Zone	28.2	36.20	0.033	91.0%	9.0%	<i>Trichodesmium</i> present
033	11/9	0955	2023.4	16°17.6'	55°33.6'	Transition Zone	28.3	36.50	0.080	92.0%	8.0%	<i>Trichodesmium</i> present
035	11/10	0943	2127.0	14°27.95'	55°29.53'	Tropical Zone	28.3	36.20	0.067	92.0%	8.0%	<i>Trichodesmium</i> present
037	11/11	0946	2185.5	13°14.0'	55°29.2'	Tropical Zone	28.4	36.02	-	92.0%	8.0%	<i>Trichodesmium</i> present
038	11/12	0907	2287.9	11°32.0'	55°32.2'	Tropical Zone	28.6	34.80	-	95.0%	5.0%	<i>Trichodesmium</i> present