

Cruise Report

C-204

Scientific data collected aboard
SSV Corwith Cramer

Key West, FL – Jamaica – Roatan, Honduras – Key West, FL
24 March 2006 – 30 April 2006

Sea Education Association
Woods Hole, Massachusetts



To obtain unpublished data, contact the SEA data archivist:

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Charles Wisotzkey	Vassar College

Visitors

Sean Townsend	Jamaican Observer
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Data Description

This report provides a record of the data collected during cruise C-204 of the SSV *Corwith Cramer* (U.S. State Department Cruise 2005-108) on her voyage from Key West, FL to Key West FL, March 24 – April 30, 2006 (Figure 1). Samples and/or data were collected at 70 discrete oceanographic stations (Table 1) in addition to continuously sampling water depth, sub-bottom profiles, Acoustic Doppler Current Profiles (ADCP), and flow-through sea surface temperature, salinity and in vivo fluorescence.

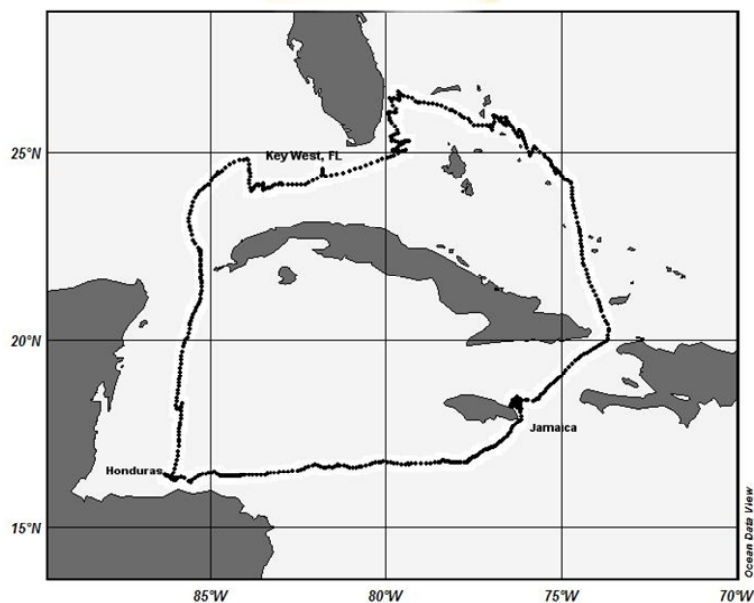


Figure 1: C-204 Cruise Track.

This report summarizes sea surface chemical and biological characteristics (Tables 2 and 3), subsurface biological samples (Table 4), surface sediment characteristics (Table 5) and chemical properties with depth (Table 6). Summary contour plots of temperature and salinity show large-scale hydrography of the western Caribbean Sea (Figure 2). Lengthy CTD, CHIRP, ADCP, and flow-through data are not reported here. All unpublished data can be made available by arrangement with the Sea Education Association (SEA) archivist (contact information, p.2). The information in this report is not intended to represent final interpretation of the data and should not be excerpted or cited without written permission from SEA.

As part of SEA's educational program, undergraduates conduct student-designed oceanographic research during the cruise. Project topics include physical, chemical, biological and geological oceanography (Table 7). Student research efforts culminate in a written paper and oral presentation to the ship's company. These papers are available on request from SEA.

Timothy Scott
Chief Scientist C-204

Figure 2: Temperature and salinity cross section from cruise C-204. Electronic CTD data are available on request.

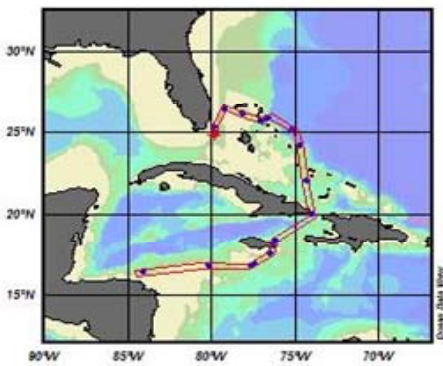
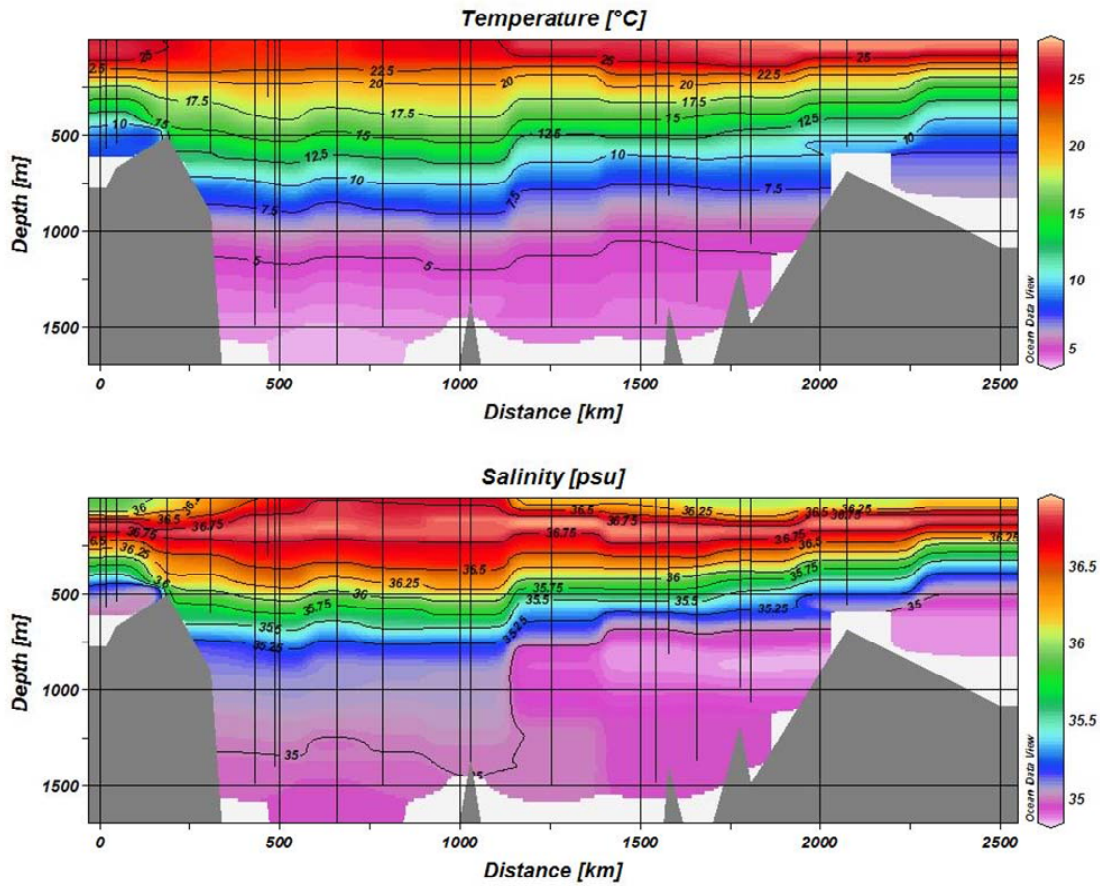


Table 1: Oceanographic Sampling Stations.

Station #	Date	Time	Log (nm)	Latitude (N)	Longitude (W)	General Locale
C204-001-NT	3-26-06	0053	86.3	24° 51.2'	79° 51.4'	Florida Straits
C204-002-CTD	3-26-06	0939	136.0	25° 02.3'	79° 47.8'	Florida Straits
C204-003-NT	3-26-06	1533	159.0	25° 10.3'	79° 22.8'	Florida Straits
C204-004-CTD	3-26-06	2130	189.0	25° 18.5'	79° 48.3'	Florida Straits
C204-005-NT	3-27-06	0004	193.8	25° 28.2'	79° 50.7'	Florida Straits
C204-006-NT	3-27-06	1144	240.5	26° 03.2'	79° 55.6'	Florida Straits
C204-007-NT	3-28-06	0015	297.0	26° 30.7'	79° 38.1'	East of Miami
C204-008-CTD/HC	3-28-06	0930	338.9	26° 25.7'	79° 14.0'	NW Providence Channel
C204-009-NT	3-28-06	1152	350.5	26° 02.3'	79° 05.4'	NW Providence Channel
C204-010-CTD/PN	3-28-06	2023	405.9	26° 07.6'	78° 09.0'	NW Providence Channel
C204-011-NT	3-29-06	0004	429.8	25° 55.8'	77° 47.6'	NW Providence Channel
C204-012-CTD/HC	3-29-06	0833	480.2	25° 42.9'	77° 01.8'	NW Providence Channel
C204-013-CTD/PN	3-29-06	2130	533.2	25° 42.9'	77° 01.8'	NW Providence Channel
C204-014-NT/MN	3-30-06	0053	544.8	25° 54.7'	77° 43.9'	Southern Sargasso Sea
C204-015-CTD/HC	3-30-06	1007	588.0	25° 54.9'	76° 33.9'	Southern Sargasso Sea
C204-016-PN	3-30-06	1017	588.0	25° 54.8'	76° 34.7'	Southern Sargasso Sea
C204-017-NT	3-31-06	0030	663.1	25° 21.8'	76° 04.0'	NE of Eleuthra Island
C204-018-CTD/HC	3-31-06	0909	701.1	25° 08.5'	75° 45.9'	Southern Sargasso Sea
C204-019-MN	3-31-06	1710	739.3	24° 41.7'	75° 15.4'	Southern Sargasso Sea
C204-020-MN	3-31-06	2119	755.5	24° 28.1'	75° 08.8'	Southern Sargasso Sea
C204-021-CTD/HC	4-01-06	1009	803.3	24° 09.3'	74° 42.3'	NW of San Salvador
C204-022-NT	4-02-06	0008	891.0	22° 31.7'	74° 28.9'	Crooked Island Passage
C204-023-CTD/HC	4-02-06	1104	950.0	21° 59.3'	74° 20.6'	Mira Porvos Passage
C204-024-PN	4-02-06	1126	950.0	21° 59.3'	74° 20.6'	Mira Porvos Passage
C204-025-MP	4-02-06	2111	1015.2	20° 59.6'	73° 54.4'	NW of Great Inagua
C204-026-NT	4-03-06	0014	1026.8	20° 48.7'	73° 51.6'	NW of Great Inagua
C204-027-CTD/HC	4-03-06	0855	1081.1	19° 59.9'	73° 40.8'	Windward Passage
C204-028-NT	4-04-06	0724	1190.3	18° 43.5'	75° 21.9'	Windward Passage
C204-029-SG	4-04-06	1738	1216.4	18° 23.4'	75° 56.9'	Formigas Bank
C204-030-SG	4-04-06	1744	1216.4	18° 23.4'	75° 57.4'	Formigas Bank
C204-031-SG	4-04-06	1754	1216.4	18° 23.5'	75° 57.9'	Formigas Bank
C204-032-SG	4-04-06	1819	1216.4	18° 23.7'	75° 59.6'	Formigas Bank
C204-033-CTD/HC	4-04-06	1959	1224.0	18° 24.1'	76° 09.4'	NE of Jamaica
C204-034-PN	4-04-06	2003	1224.0	18° 24.1'	75° 09.4'	NE of Jamaica
C204-035-PN	4-07-06	0955	1234.4	18° 10.8'	76° 27.2'	Port Antonio, Jamaica
C204-036-NT	4-08-06	1109	1247.0	18° 23.9'	76° 22.7'	NE of Jamaica
C204-037-NT	4-08-06	2357	1301.2	18° 26.5'	76° 12.6'	NE of Jamaica
C204-038-CTD/HC	4-09-06	1000	1325.7	18° 10.7'	76° 15.4'	NE of Jamaica
C204-039-NT	4-09-06	1404	1343.2	18° 23.1'	76° 07.3'	NE of Jamaica
C204-040-NT	4-09-06	2343	1388.9	17° 52.6'	76° 07.8'	SE of Jamaica
C204-041-CTD/HC/PN	4-10-06	1020	1411.3	17° 30.7'	76° 28.4'	SE of Jamaica
C204-042-NT	4-10-06	1130	1411.5	17° 29.1'	76° 29.6'	SE of Jamaica
C204-043-NT	4-10-06	1638	1428.5	17° 15.9'	76° 44.9'	SE of Jamaica
C204-044-NT	4-11-06	0010	1440.4	17° 06.6'	77° 20.8'	East of Pedro Bank
C204-045-NT	4-11-06	0738	1457.1	16° 56.9'	77° 20.5'	East of Pedro Bank

Table 1 Continued

Station #	Date	Time	Log (nm)	Latitude (N)	Longitude (W)	General Locale
C204-046-CTD/HC	4-11-06	1006	1460.3	16° 53.9'	77° 24.5'	East of Pedro Bank
C204-047-CTD/HC	4-11-06	1830	1468.5	16° 45.5'	77° 39.0'	East of Pedro Bank
C204-048-NT	4-12-06	0007	1480.5	16° 43.6'	77° 54.3'	SE of Pedro Bank
C204-049-SG	4-12-06	0920	1492.1	16° 45.5'	78° 13.9'	Pedro Bank
C204-050-SG	4-12-06	0950	1492.5	16° 45.5'	78° 14.4'	Pedro Bank
C204-051-NT	4-12-06	1120	1493.5	16° 45.6'	78° 16.2'	Pedro Bank
C204-052-SG	4-12-06	1620	1500.0	16° 44.6'	78° 25.3'	Pedro Bank
C204-053-NT	4-13-06	0023	1551.1	16° 40.3'	79° 19.8'	Pedro Bank
C204-054-CTD/HC	4-13-06	0835	1600.6	16° 44.3'	80° 08.7'	East of Rosalind Bank
C204-055-SG	4-13-06	1312	1613.2	16° 40.9'	80° 23.8'	Rosalind Bank
C204-056-SG	4-13-06	1647	1633.3	16° 35.9'	80° 45.5'	Rosalind Bank
C204-057-NT	4-14-06	0024	1668.1	16° 38.2'	81° 24.5'	West of Rosalind Bank
C204-058-NT	4-14-06	1323	1721.5	16° 34.7'	82° 19.6'	West of Rosalind Bank
C204-059-SG	4-14-06	2028	1766.6	16° 26.8'	83° 02.7'	West of Rosalind Bank
C204-060-NT	4-15-06	0005	1786.6	16° 25.2'	83° 23.0'	NE of Honduras
C204-061-CTD/HC	4-15-06	1022	1733.0	16° 21.7'	84° 07.6'	NE of Honduras
C204-062-NT	4-16-06	0000	1861.2	16° 22.8'	84° 44.2'	NE of Honduras
C204-063-CTD/HC	4-16-06	0811	1866.8	16° 26.1'	84° 59.6'	NE of Honduras
C204-064-NT	4-16-06	1638	1902.3	16° 10.9'	85° 33.2'	NE of Honduras
C204-065-MN	4-16-06	2108	1931.6	16° 17.8'	85° 55.6'	NE of Honduras
C204-066-MN	4-24-06	2134	2468.9	24° 28.4'	84° 45.4'	SW of Florida
C204-067-CTD	4-25-06	1000	2529.1	24° 30.2'	83° 52.7'	SW of Florida
C204-068-NT	4-26-06	0013	2579.0	24° 10.0'	83° 28.9'	SW of Florida
C204-069-CTD	4-27-06	2114	2714.9	24° 03.3'	82° 00.4'	SW of Florida
C204-070-NT	4-28-06	0004	2720.7	23° 57.7'	81° 58.8'	SW of Florida

Table 2: Surface Station Data.

Station	Date	Time	Latitude (°N)	Longitude (°W)	Temp (°C)	Salinity (PSU)	PO4 (uM)
SS-01	3-25-06	0709	24° 53.9'	81° 48.0'	23.9	36.0	0.270
SS-02	3-25-06	1730	24° 32.7'	80° 54.6'	25.5	36.1	1.220
SS-03	3-25-06	2130	24° 44.1'	80° 17.5'	25.5	35.6	0.002
SS-04	3-26-06	0700	25° 00.7'	79° 37.1'	25.4	36.2	2.090
SS-05	3-26-06	1315	25° 10.9'	79° 32.8'	25.7	35.9	0.130
SS-06	3-26-06	1810	25° 15.8'	79° 32.4'	25.6	36.1	0.560
SS-07	3-27-06	0600	25° 44.3'	79° 47.3'	25.8	36.1	0.260
SS-08	3-27-06	1327	26° 02.8'	79° 51.1'	25.6	36.2	0.080
SS-09	3-27-06	1800	26° 18.6'	79° 48.5'	25.6	36.2	0.030
SS-10	3-28-06	0542	26° 33.8'	79° 35.9'	25.7	36.2	0.100
SS-11	3-28-06	2053	26° 07.6'	78° 09.0'	23.7	36.7	0.310
SS-12	3-29-06	0006	25° 55.8'	77° 47.6'	24.2	36.7	0.360
SS-13	3-29-06	0540	25° 42.9'	77° 12.7'	23.4	36.6	0.600
SS-14	3-29-06	1700	25° 57.9'	76° 54.9'	23.2	37.0	0.160
SS-15	3-29-06	1908	25° 54.1'	76° 49.1'	23.4	36.7	0.180
SS-16	3-30-06	0200	25° 53.0'	76° 44.1'	23.2	37.0	0.040
SS-17	3-30-06	0700	25° 47.6'	76° 34.3'	23.7	37.2	0.040
SS-18	3-30-06	2130	25° 33.6'	76° 11.1'	23.6	37.4	0.110
SS-19	3-31-06	0045	25° 21.8'	76° 04.0'	23.8	38.3	0.160
SS-20	3-31-06	0715	24° 58.9'	75° 49.7'	23.7	37.4	0.190
SS-21	3-31-06	2145	24° 27.8'	75° 08.8'	23.9	37.4	0.170
SS-22	4-01-06	0130	24° 33.9'	75° 08.8'	24.5	37.3	0.000
SS-23	4-01-06	1010	24° 09.2'	74° 42.3'	24.5	37.3	0.050
SS-24	4-01-06	1800	23° 30.5'	74° 36.9'	24.5	37.3	0.000
SS-25	4-01-06	2240	25° 59.2'	74° 29.7'	24.4	36.6	0.160
SS-26	4-02-06	0013	25° 52.0'	74° 29.0'	24.3	37.4	0.120
SS-27	4-02-06	1800	21° 20.0'	74° 06.0'	25.1	37.2	0.030
SS-28	4-03-06	0027	18° 48.6'	73° 51.5'	25.5	36.8	0.180
SS-29	4-04-06	0727	18° 43.5'	75° 21.9'	26.4	36.7	0.020
SS-30	4-04-06	1312	18° 26.2'	75° 38.3'	26.9	36.2	1.280
SS-31	4-07-06	1120	18° 10.8'	76° 27.2'	26.9	36.0	0.453
SS-32	4-08-06	0810	18° 12.0'	76° 26.7'	26.6	36.5	0.214
SS-33	4-08-06	1121	18° 23.3'	76° 23.0'	26.9	36.5	0.122
SS-34	4-08-06	2200	18° 22.4'	76° 17.7'	26.9	36.5	0.269
SS-35	4-08-06	2358	18° 26.5'	76° 12.6'	27.0	36.6	0.117
SS-36	4-09-06	1124	18° 23.3'	76° 15.9'	26.4	36.5	0.120
SS-37	4-09-06	1637	18° 11.6'	76° 10.6'	27.5	36.5	0.448
SS-38	4-10-06	0100	17° 50.8'	76° 10.7'	27.4	36.5	0.133
SS-39	4-10-06	2215	17° 07.9'	76° 54.9'	27.2	36.5	0.182
SS-40	4-11-06	0010	17° 06.6'	77° 20.8'	27.4	36.0	0.073
SS-41	4-12-06	0020	16° 43.6'	77° 55.3'	27.3	36.1	0.117
SS-42	4-12-06	1130	16° 45.5'	78° 16.5'	27.8	36.0	0.133
SS-43	4-13-06	0025	16° 41.1'	79° 21.6'	27.4	36.1	0.133
SS-44	4-13-06	2000	16° 35.4'	81° 02.2'	27.3	36.6	0.648
SS-45	4-14-06	0030	16° 38.2'	81° 24.5'	27.2	36.6	0.111
SS-46	4-14-06	1330	16° 34.7'	82° 19.6'	27.4	36.7	0.100
SS-47	4-15-06	2200	16° 20.7'	84° 40.3'	27.4	36.7	0.052
SS-48	4-15-06	2350	16° 20.6'	84° 43.9'	26.3	36.3	0.090
SS-49	4-16-06	2142	16° 17.1'	85° 55.0'	27.6	35.5	0.697
SS-50	4-18-06	1155	16° 24.8'	86° 17.6'	28.5	36.3	0.373

Table 3: Neuston Net Data. Station Locations are in Table 1.

Station #	Tow Length (m)	Temp (°C)	Salinity (PSU)	Zooplankton Biomass Density		Plastic Pieces Pellets		Tar (g)
				(ml)	(ml/m ²)	(#)	(#)	
C204-001A	1852	25.7	36.0	16.0	0.009	1	0	0
C204-001B	1852	26.3	35.9	9.0	0.005	2	0	--
C204-003	1852	25.7	36.1	3.5	0.002	7	0	0
C204-005A	926	26.2	35.9	8.5	0.090	0	0	0
C204-005B	648	26.2	36.0	9.5	0.015	0	0	--
C204-006	1389	25.4	36.2	2.0	0.001	0	0	0
C204-007	1296	25.4	36.1	11.0	0.008	1	0	0
C204-009	1111	25.1	36.0	2.5	0.002	2	0	0
C204-011A	1852	24.5	36.3	5.0	0.003	1	0	0
C204-011B	1852	24.5	36.3	7.0	0.004	1	0	--
C204-014	1852	23.4	37.0	5.5	0.003	3	0	0.30
C204-017	1667	23.9	36.8	7.0	0.004	15	0	0
C204-022A	1852	24.3	37.4	4.0	0.002	31	0	0.02
C204-022B	1852	24.3	37.4	7.0	0.004	17	0	--
C204-026A	1852	25.7	36.4	5.0	0.003	1	0	0
C204-026B	1852	25.8	36.4	4.5	0.002	8	0	--
C204-028	1852	26.4	36.7	6.4	0.004	0	0	0
C204-036	1852	26.9	36.1	7.4	0.004	0	0	0.04
C204-037A	1852	27.1	36.0	9.0	0.005	5	1	0
C204-037B	1852	27.1	36.0	1.0	0.001	0	0	--
C204-039	1852	27.7	36.6	1.5	0.001	2	0	0
C204-040A	1852	27.6	35.9	11.0	0.006	16	0	0
C204-040B	1852	27.6	35.9	6.0	0.003	2	0	--
C204-042	1852	27.3	36.0	----	-----	--	--	--
C204-043	1852	27.5	36.0	3.9	0.002	13	2	0
C204-044A	1111	27.4	36.0	8.0	0.007	3	0	0
C204-044B	1482	27.4	36.0	8.0	0.005	1	0	--
C204-045	1852	27.1	36.0	4.5	0.002	22	0	0.08
C204-048A	1852	27.4	36.5	10.5	0.006	2	0	0
C204-048B	1852	27.4	36.5	17.5	0.009	6	0	--
C204-051	1852	27.8	36.0	8.5	0.005	1	0	0
C204-053A	1204	27.4	36.1	18.0	0.015	0	0	0
C204-053B	1852	27.4	36.1	14.0	0.008	0	0	--
C204-057A	1389	27.2	36.6	30.0	0.022	0	0	0.17
C204-057B	2130	27.2	36.6	21.0	0.010	7	0	--
C204-058	2037	27.5	36.3	7.0	0.003	10	0	0
C204-060A	1296	27.5	36.5	46.0	0.035	0	0	0
C204-060B	4630	27.5	36.6	32.0	0.007	0	0	--
C204-062A	790	27.4	36.1	12.0	0.015	0	0	0
C204-062B	790	27.3	36.2	25.0	0.032	0	0	--
C204-064	1852	27.7	36.5	5.0	0.003	10	0	0
C204-068	1482	26.6	36.3	35.0	0.024	2	0	0
C204-070	1852	26.4	36.3	62.0	0.033	0	0	0

Table 4: Meter Net Data. Station Locations are in Table 1.

Station #	Tow Length (m)	Net Diameter (m)	Cast Depth (m)	Zooplankton	
				Biomass (ml)	Density (ml/m ³)
C204-014	290	1.0	250	13.0	0.057
C204-019	2021	1.0	400	4.0	0.002
	2052	1.0	200	14.0	0.009
	1483	1.0	100	25.0	0.021
	2778	1.0	400	18.0	0.008
C204-020	2455	1.0	200	19.0	0.010
	1763	1.0	100	26.0	0.019
	3340	2.0	350	44.0	0.004
C204-066	565	1.0	250	250.0	0.563

Table 5: Sediment Grain Size Data. Station Locations are in Table 1.

Station #	Depth (m)	Grain Size Fraction (% of sediment retained on sieves – sizes in mm)						
		2.000	1.000	0.500	0.250	0.125	0.063	<0.063
C204-029-SG	41	-----	-----	-----	-----	-----	-----	-----
C204-030-SG	31	-----	-----	-----	-----	-----	-----	-----
C204-031-SG	32	-----	-----	-----	-----	-----	-----	-----
C204-032-SG	64	-----	-----	-----	-----	-----	-----	-----
C204-049-SG	220	31.6	5.6	14.0	2.4	9.6	1.6	35.2
C204-050-SG	28	-----	-----	-----	-----	-----	-----	-----
C204-051-SG	33	15.0	38.0	40.0	1.0	0.7	1.0	4.3
C204-052-SG	40	48.6	14.6	23.3	6.0	1.3	0.1	5.3
C204-055-SG	32	5.5	26.9	48.0	16.1	3.1	0.4	0.0
C204-056-SG	29	0.7	1.0	15.3	38.6	37.6	6.8	0.0
C204-059-SG	55	6.9	0.8	4.0	6.3	5.2	5.0	77.2

Table 6: Hydrocast Station Data. Station Locations are in Table 1.

Station #	Depth (m)	Temp (°C)	Salinity (PSU)	O₂ (ml/l)	PO₄ (uM)
C204-008	0	25.1	36.2	-----	0.890
	15	25.1	36.1	-----	0.194
	30	25.1	36.1	4.41	0.194
	40	25.1	36.1	4.39	0.247
	60	25.1	36.1	4.39	0.505
	150	23.4	36.6	4.32	0.269
	199	20.6	36.8	3.53	0.537
	248	19.2	36.6	3.66	0.590
	299	17.7	36.4	3.91	0.700
397	16.6	36.3	3.75	-----	
C204-012	0	23.7	36.5	4.62	0.067
	15	23.6	36.45	-----	-----
	30	23.6	36.5	4.54	0.029
	39	23.6	36.4	4.91	0.041
	59	23.5	36.6	4.48	0.007
	78	23.4	36.7	4.61	0.051
	99	23.3	36.8	-----	-----
	148	22.9	36.7	5.08	0.032
	199	21.4	36.8	4.57	0.034
	297	18.8	36.6	3.70	0.063
	496	15.3	36.1	4.06	0.260
	792	8.2	35.1	3.40	0.263
	1189	4.8	35.0	5.48	0.350
C204-015	0	24.2	36.8	4.74	0.030
	15	24.1	36.8	-----	0.018
	40	24.1	36.8	4.59	0.010
	59	23.8	36.8	4.49	0.015
	79	23.7	36.8	-----	0.039
	149	22.7	36.9	4.24	0.022
	198	20.7	36.8	-----	0.006
	298	18.8	36.6	-----	0.058
	496	16.0	36.2	4.05	0.106
	794	9.6	35.3	-----	0.321
1189	4.9	35.0	-----	0.286	
C204-018	0	23.9	37.4	4.86	0.170
	37	23.7	36.8	4.51	0.170
	59	23.7	36.8	5.54	-----
	79	23.4	36.8	4.85	0.270
	100	23.2	36.8	5.45	0.180
	119	22.8	36.9	4.76	0.210
	199	22.3	36.9	4.69	0.270
	249	19.3	36.7	4.19	0.300
	496	14.6	36.0	3.42	1.800
	744	9.4	35.2	3.16	1.760
	991	6.0	35.1	4.30	1.168
	1486	4.0	34.9	5.29	1.470

Table 6 Continued

Station #	Depth (m)	Temp (°C)	Salinity (PSU)	O₂ (ml/l)	PO₄ (uM)
C204-021	0	24.7	36.8	5.50	0.285
	30	24.6	36.8	4.72	0.280
	40	24.6	36.8	4.82	0.306
	59	24.6	36.8	4.80	0.333
	80	24.6	36.8	4.80	0.285
	99	24.1	36.8	4.65	0.253
	119	23.6	36.8	4.65	0.269
	148	22.8	36.8	4.49	0.285
	248	19.6	36.7	4.21	0.210
	496	15.4	36.1	3.53	0.751
	744	10.0	35.3	3.07	1.554
	992	5.9	35.1	4.71	1.485
	1189	4.8	35.0	5.13	1.362
C204-023	0	25.1	36.7	4.26	0.296
	40	24.8	36.8	4.46	0.285
	60	24.7	36.8	4.44	0.258
	80	24.5	36.8	4.41	0.269
	99	24.1	36.9	4.30	0.274
	119	23.2	36.9	4.22	0.296
	149	22.6	36.9	4.33	0.371
	248	19.3	36.7	3.99	0.371
	496	15.9	36.2	4.11	0.810
	744	10.3	35.3	2.85	1.790
	992	6.4	35.1	4.28	1.710
	1189	5.1	35.0	4.87	1.512
	C204-027	0	26.6	36.2	-----
30		26.5	36.2	-----	-----
40		26.5	36.2	4.68	0.221
59		25.6	36.5	4.74	0.183
79		25.3	36.6	4.73	0.167
99		24.7	36.8	4.58	0.178
119		23.9	36.9	-----	-----
149		22.1	37.0	4.33	0.210
248		18.4	36.6	4.41	0.365
496		12.3	35.6	3.21	1.415
744		8.1	35.0	3.33	2.036
991		5.7	34.9	4.43	1.790
1189		4.8	35.0	1.69	1.635
C204-033	0	26.4	36.2	-----	0.296
	30	26.1	36.3	4.87	-----
	40	26.1	36.4	4.75	0.253
	60	26.0	36.4	4.84	0.381
	79	25.7	36.5	4.49	0.258
	99	25.2	36.6	4.70	0.280
	149	23.3	36.9	4.33	0.403
	248	20.1	36.8	3.80	0.371
	496	12.8	35.7	3.06	-----
	741	7.6	34.9	-----	2.235
	742	7.6	34.9	2.73	2.186

Table 6 Continued

Station #	Depth (m)	Temp (°C)	Salinity (PSU)	O₂ (ml/l)	PO₄ (uM)
C204-038	0	27.3	36.5	-----	0.138
	20	26.4	36.1	4.59	-----
	39	26.4	36.1	4.68	0.106
	59	26.4	36.2	4.41	-----
	80	26.2	36.3	4.54	0.062
	99	26.1	36.4	4.83	0.068
	119	25.0	36.7	5.25	0.095
	149	24.3	36.8	4.68	0.090
	248	19.5	36.7	4.53	0.285
	348	16.9	36.3	4.24	-----
	497	12.9	35.7	3.11	1.256
	595	10.4	35.3	2.92	-----
	793	7.0	34.9	2.74	2.275
C204-041	0	27.2	36.1	4.31	0.041
	31	26.9	36.0	-----	-----
	40	26.9	36.0	4.44	0.057
	60	26.6	36.1	4.38	-----
	80	26.0	36.4	4.07	0.052
	100	25.4	36.6	4.35	0.052
	150	24.2	36.8	3.99	0.079
	250	19.6	36.7	3.92	-----
	499	12.8	35.6	3.14	1.245
	749	8.0	34.5	2.95	1.955
	1199	4.8	35.0	4.62	1.663
C204-046	0	27.2	36.1	4.19	0.046
	20	26.9	36.0	4.22	0.068
	40	26.9	36.0	4.11	0.046
	59	26.6	36.1	5.15	0.052
	79	26.6	36.1	5.21	0.198
	100	26.4	36.2	5.06	0.079
	119	26.0	36.4	4.89	0.084
	149	24.0	36.8	4.69	0.274
	248	18.7	26.32	3.92	0.534
	348	15.6	36.1	3.88	0.789
	497	12.3	35.5	3.41	1.634
	694	8.5	34.9	3.47	2.069
	892	6.3	34.9	3.54	2.237
C204-047	0	27.9	35.9	4.57	0.055
	21	27.3	36.0	-----	-----
	39	27.0	36.1	4.66	0.223
	59	26.7	36.1	4.56	0.045
	79	26.8	36.2	4.57	0.066
	99	26.6	36.3	4.49	0.281
	149	24.8	36.8	4.26	0.034
	248	19.0	36.6	4.05	0.018
	348	16.5	36.2	4.01	0.601
	496	11.5	35.4	3.39	1.429
	892	6.1	34.9	3.72	2.101

Table 6 Continued

Station #	Depth (m)	Temp (°C)	Salinity (PSU)	O₂ (ml/l)	PO₄ (uM)
C204-054	0	27.2	36.6	4.62	0.039
	20	27.4	36.1	4.66	0.034
	40	27.4	36.1	4.62	0.008
	59	27.3	36.1	4.68	0.134
	80	25.5	36.7	4.47	0.086
	98	24.8	36.8	4.36	0.081
	148	22.4	36.9	3.86	0.144
	198	18.9	36.6	3.73	0.359
	248	18.1	36.5	3.81	0.491
	298	16.1	36.2	3.64	0.732
	397	13.0	35.6	3.17	1.508
496	11.0	35.3	3.00	1.712	
C204-061	0	27.3	36.1	4.82	0.081
	30	27.2	36.2	4.82	0.044
	39	27.2	36.2	4.75	0.066
	59	26.5	36.3	4.61	0.024
	78	24.8	36.8	4.40	0.129
	149	19.8	36.7	3.31	0.412
	198	17.1	36.3	3.61	0.721
	248	14.9	35.9	4.59	2.436
	298	13.1	35.7	3.25	1.492
	392	10.3	35.2	3.16	2.744
	496	8.6	35.0	2.78	2.641
C204-063	0	27.5	36.1	4.47	0.087
	20	27.5	36.2	-----	-----
	40	26.8	36.1	4.67	0.045
	59	26.2	36.4	4.28	0.040
	79	25.1	36.7	4.05	0.050
	99	23.9	36.8	4.06	0.165
	119	22.3	36.9	3.75	0.160
	149	20.1	36.7	3.80	0.286
	248	15.3	36.0	3.51	0.884
	348	11.8	35.4	3.04	1.476
	496	8.8	35.0	3.00	-----
	595	7.5	34.9	3.02	2.022
794	5.83	34.9	3.86	1.996	

Table 7: Student Research Projects, C-204

Project Title	Student Researchers
Comparison of Current Measurements using an ADCP and the Geostrophic Equation in the Western Caribbean Sea.	Alex Conrad Ryan Mullins
Distribution and Diversity of Phytoplankton along the C-204 Cruise Track	Kathleen Creel
Transport and Structure of the NW Providence Channel	Alexander Dorsk
Environmental Controls on Benthic Foraminifera Distribution of the Nicaraguan Rise	Chas Fricke
Vertical Migration Patterns of Copepods and their Predators	Marshall Frye
Bioluminescence in the Caribbean Sea	Katherine Giglio
Distribution of the Bryozoan, <i>Membranipora tuberculata</i> , on <i>Sargassum</i> in the Sargasso and Caribbean Sea	Eleanor Gordon
Myctophid Distribution and Gut Content Analysis to Determine Prey Selectivity	Halley Gray
The Island Mass Effect at San Salvador and Pedro Bank	Genevieve Greer Charles Wisotzkey
Chlorophyll-a and Nutrient Distribution in a Mesoscale Eddie Feature	Luke Harrington
Physical Structure of a Caribbean Mesoscale Eddie Feature	Nick Lauder
Effect of Iron Enrichment on Primary Productivity in the Atlantic Ocean	Anya Lewis
Harbor Pollution Study: Key West, FL; Port Antonio, Jamaica; Roatan, Honduras	Christopher Lord
Rosalind Bank Sedimentation: An Investigation of Sediment Fabric and Deposition	Lindsay McKenna
Antimicrobial Activity of <i>Sargassum fluitans</i>	Erin Morgan
Distribution of the Phyllosoma Larvae of the Spiny Lobster, <i>Panuliris argus</i>	Allison Neterer
Vertical Migration of the Deep Scattering Layer Correlated with Light Intensity and Chlorophyll-a Maximum	Aaron Norlund
Distribution of <i>Sargassum</i> sp. along the C-204 Cruise Track	Micaela O'Connor
Distribution of Leptocephali along the C-204 Cruise Track	Laurie Ortiz
Water Mass Exchange between the Sargasso and Caribbean Seas	Edward Quanstrom
Relationship between Phytoplankton Size and Nutrient Availability	Annika Saltman
Distribution of Chaetognatha along the C-204 Cruise Track	Daniel Stone
Distribution of Pelagic Tar and Plastic along the C-204 Cruise Track	Stewart Stout