

Cruise Report C-198

Scientific data collected aboard
SSV Corwith Cramer

Key West, FL – St. Croix, USVI
25 March – 1 May 2005



Sea Education Association
Woods Hole, Massachusetts

To obtain unpublished data, contact the SEA data archivist:
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Ship's Company

SSV *Robert C. Seamans*, Cruise C-198

Nautical Staff

Chris McGuire	Captain
Mike Dawson	Chief Mate
Sara Beck	Second Mate
Steve Kirk	Third Mate
Sam Taylor	Engineer
Danielle Rioux	Steward

Scientific Staff

Lisa Graziano	Chief Scientist
Jen Barone	First Assistant Scientist
Adam Baske	Second Assistant Scientist
Katie Krause	Third Assistant Scientist

Maritime Studies Staff

Matt McKenzie	Maritime Studies Instructor
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Students

Stephanie R. Anderson	Simmons College
Matthew D. Aschaffenburg	Colby College
Amanda J. Benedict	State University of New York, Cortland
Adam A. Bleckert	Colorado College
Sarah E. Clement	Wells College
Morgan J. Crowley	University of Colorado, Boulder
Rebecca A. Cushing	Middlebury
Edward R. Farrell	Rowan University
Ann M. Halbach	Northern Arizona University
Erik P. Johanson	Eugene Lang College
Lindsey C. Lennek	Fort Lewis College
Kimberly E. McCabe	University of Massachusetts, Boston
Alice O. Neiley	Kenyon College
Dan R. Peguine	Brandeis University
Elizabeth M. Reagh	Wheaton College
Kendall A. Reiss	Dickinson College
Thomas W. Summers	Rollins College
Danielle M. Tommaso	SUNY Environmental Science and Forestry
Elizabeth K. Torgersen	Kenyon College
Mary Ann Vicari	Hamilton College

Table 1: Student research projects, cruise C-198.

Title	Student Investigators
Quantity and distribution of <i>Sargassum</i> in the Sargasso Sea	Stephanie Anderson
The use of epifluorescence microscopy to determine the distribution of the cyanobacteria <i>Synechococcus</i> in the Northern Sargasso Sea	Matthew Aschaffenburg
Abundance and distribution of copepods in the Gulf Stream along Florida	Amanda Benedict
Diel variation in the abundance of cyanobacteria <i>Synechococcus spp.</i> in surface waters of the Sargasso Sea	Adam Bleckert
A historical look at temperature and salinity at BATS	Sarah Clement
Comparison of zooplankton net tow biomass and species diversity to ADCP backscatter signal at corresponding depth	Morgan Crowley and Alice Neiley
Tracking North Atlantic Subtropical Mode Water (18° Water) movement from its formation site across the Sargasso Sea	Rebecca Cushing and Dan Peguine
Leptocephali distribution in relation to local water mass characteristics within the Straits of Florida and Sargasso Sea	Ed Farrell
A comparison of the Apparent Oxygen Utilization throughout the North Atlantic Subtropical Convergence Zone	Ann Halbach
Photosynthetic efficiency as related to phytoplankton size distribution: North vs. South Sargasso Sea	Erik Johanson
Determining Myctophid health based on the Fulton Factor and species abundance in the North and South Sargasso Seas	Lindsey Lennek and Tom Summers
Upon a raft of plenty: studies of floating communities in the Sargasso Sea	Kimberly McCabe and Elizabeth Torgersen
Identificaion of four water masses composing the Florida Current	Elizabeth Reagh
Submarine Chirp profiling of the Blake Plateau, Florida Shelf	Kendall Reiss
Phytoplankton nutrient limitation in the Sargasso Sea: relationships between nitrogen, phosphorus, silica, and phytoplankton productivity	Danielle Tommaso
Foraminifera diversity of the Bahama Banks and Blake Plateau: implications for paleoclimate	Mary Ann Vicari

Data Description

This section provides a record of data collected aboard the SSV *Robert C. Seamans* during cruise C-198 (U.S. State Department Cruise 2004-124), which departed from Key West, FL, USA, and ended in St. Croix, USVI. Leg I transited the Straits of Florida and the Gulf Stream and Florida shelf to approximately 30°N. and the northern Sargasso Sea between Florida and Bermuda. Leg II covered the waters from Bermuda south to Guadeloupe, and ended with a short northward leg to St. Croix (Figure 1).

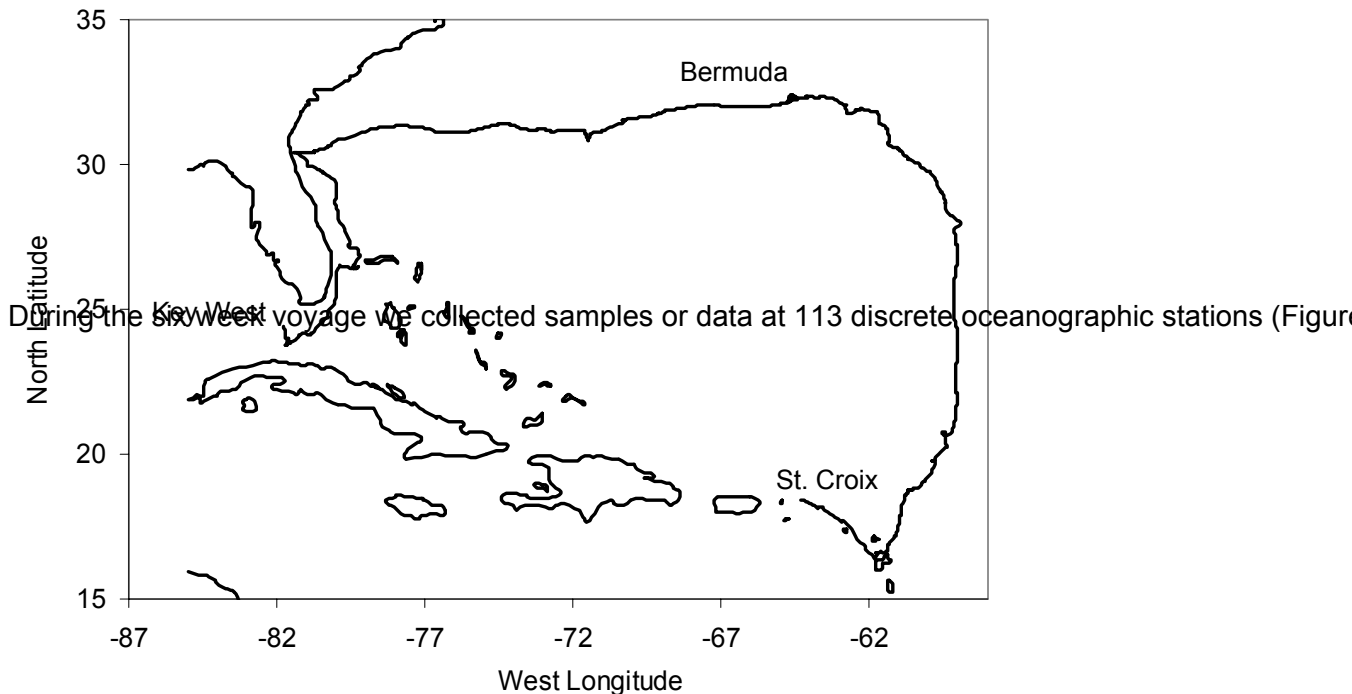


Figure 1. C-198 Cruise Track, based on positions recorded each minute.

During the six-week voyage we collected samples or data at 112 discrete oceanographic stations (Table 2 and Figure 3), surface samples at 46 locations, and continuously sampled water depth and subbottom profiles (Chirp), upper ocean currents (ADCP), and sea surface temperature, temperature, salinity and *in vivo* fluorescence (seawater flow-through system; Figure 2). This report summarizes sea surface chemical and biological characteristics, and chemical and biological properties with depth. 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) data archivist (contact information, p. 2).

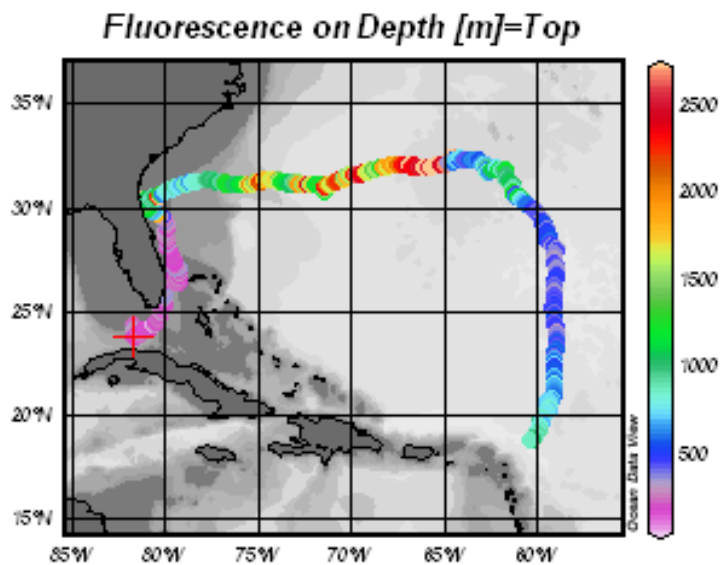
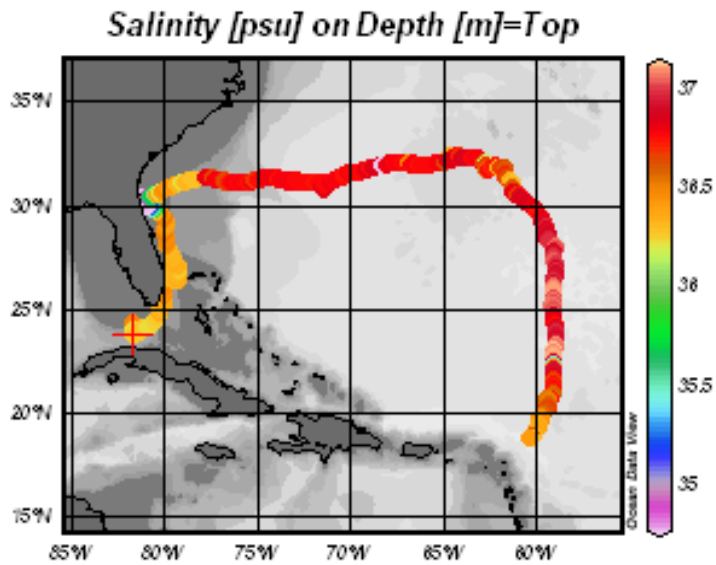
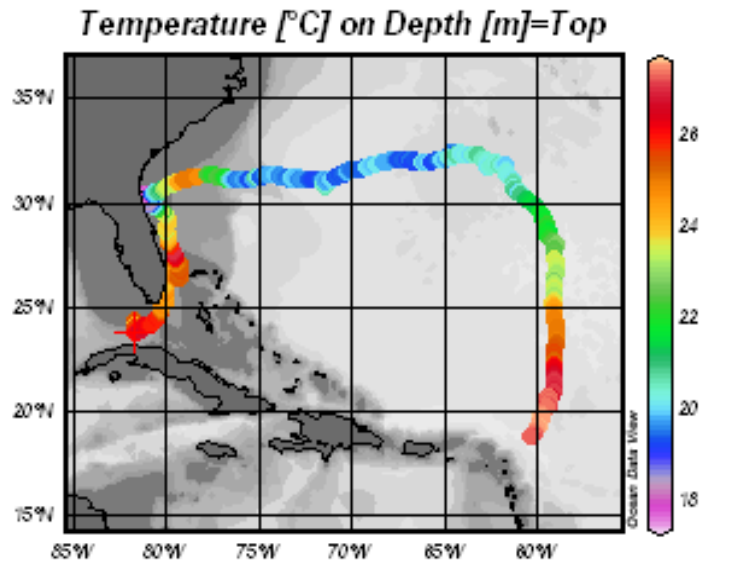


Figure 2. A) Temperature, B) Salinity, and C) Chl-a Fluorescence plotted from hourly data.

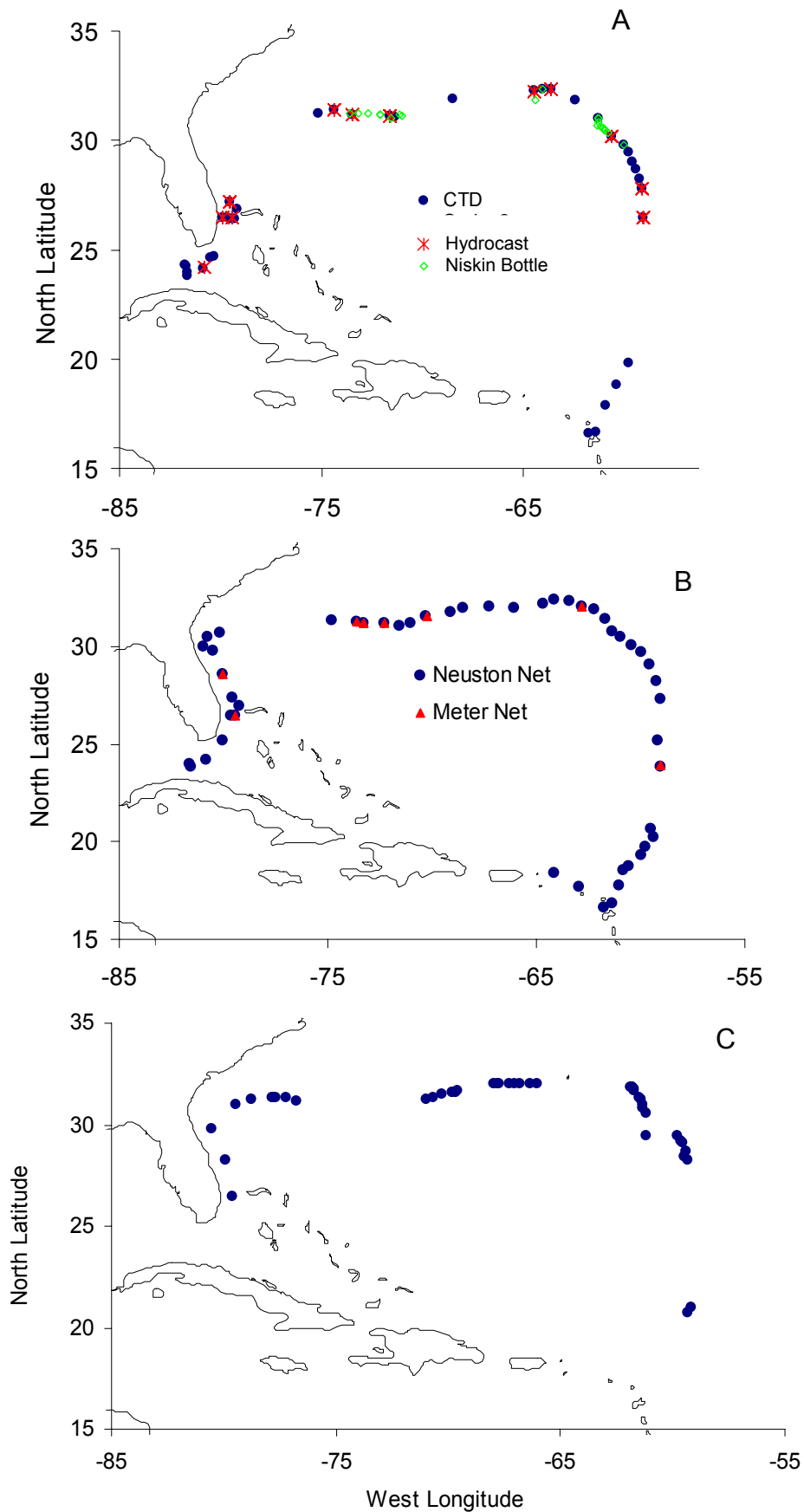


Figure 3: Locations of oceanographic sampling stations. A) Hydrographic equipment B) Net tows C) Surface stations. There were three Shipek Grab (sediment) stations on the Florida Shelf between 28 and 31 degrees N (not shown).

Table 2: Station Locations

Station	Date	Time	Latitude, degrees N	Longitude, degrees W	Station Type
C-198-001-CTD/FL	26-Mar-05	16:32	24°20.1'	81°45.8'	CTD with Fluorometer
C-198-002-CTD/FL	26-Mar-05	18:33	24°13.9'	81°43.2'	CTD with Fluorometer
C-198-003-CTD/FL	27-Mar-05	0:25	23°59.6'	81°39.2'	CTD with Fluorometer
C-198-005-CTD/FL	27-Mar-05	10:27	23°47.1'	81°39.4'	CTD with Fluorometer
C-198-008-HC/CTD	27-Mar-05	22:00	24°7.9'	80°51.0'	Hydrocast with CTD
C-198-010-CTD	28-Mar-05	5:40	24°32.58'	80°29.0'	CTD only
C-198-011-CTD	28-Mar-05	7:55	24°42.0'	80°18.3'	CTD only
C-198-013-HC/CTD	28-Mar-05	22:00	26°29.7'	79°53.0'	Hydrocast with CTD
C-198-014-CTD	29-Mar-05	1:45	26°27.6'	79°38.5'	CTD only
C-198-016-CTD	29-Mar-05	5:00	26°26.0'	79°27.3'	CTD only
C-198-017-CTD	29-Mar-05	7:45	26°25.7'	79°16.8'	CTD only
C-198-021-CTD	29-Mar-05	22:01	26°50.2'	79°12.5'	CTD only
C-198-023-CTD	30-Mar-05	3:10	27°11.7'	79°34.1'	CTD only
C-198-035-CTD	3-Apr-05	20:06	31°14.2'	75°10.5'	CTD only
C-198-037-CTD	4-Apr-05	9:40	31°24.1'	74°23.7'	CTD only
C-198-039-CTD	5-Apr-05	4:45	31°10.7'	73°28.7'	CTD only
C-198-048-HC/CTD	6-Apr-05	9:30	31°6.1'	71°38.1'	Hydrocast with CTD
C-198-051-HC/CTD	6-Apr-05	20:10	31°5.0'	71°22.6'	Hydrocast with CTD
C-198-055-HC/CTD	8-Apr-05	9:00	31°55.4'	68°29.4'	Hydrocast with CTD
C-198-060-HC/CTD	13-Apr-05	15:47	32°15.6'	64°27.6'	Hydrocast with CTD
C-198-061-CTD	13-Apr-05	23:55	32°19.0'	64°5.0'	CTD only
C198-063-HC/CTD	14-Apr-05	8:25	32°19.7'	63°39.3'	Hydrocast with CTD
C198-066-CTD	15-Apr-05	7:57	31°51.5'	62°26.9'	CTD only
C198-069-CTD	16-Apr-05	8:15	31°1.0'	61°19.6'	CTD only
C198-079-HC/CTD	17-Apr-05	8:13	30°10.6'	60°37.9'	Hydrocast with CTD
C198-081-CTD	17-Apr-05	21:00	29°46.5'	60°3.9'	CTD only
C198-083-CTD	18-Apr-05	5:08	29°27.1'	59°46.6'	CTD only
C198-084-CTD	18-Apr-05	10:45	29°2.0'	59°35.7'	CTD only
C198-086-CTD	18-Apr-05	17:05	28°39.8'	59°25.7'	CTD only
C198-087-CTD	19-Apr-05	0:35	28°13.4'	59°16.1'	CTD only
C198-089-HC/CTD	19-Apr-05	9:20	27°47.3'	59°8.3'	Hydrocast with CTD
C198-092-HC/CTD	20-Apr-05	0:14	26°26.7'	59°4.4'	Hydrocast with CTD
C198-099-CTD	23-Apr-05	8:50	19°48.8'	59°47.7'	CTD only
C198-103-CTD	24-Apr-05	8:32	18°49.9'	60°25.0'	CTD only
C198-106-CTD	25-Apr-05	7:50	17°52.1'	60°55.7'	CTD only
C198-109-CTD	26-Apr-05	4:20	16°39.3'	61°24.1'	CTD only
C198-110-CTD	26-Apr-05		16°36.9'	61°45.9'	CTD only
C198-006-DN	27-Mar-05	1030	23°47.4'	81°3.9'	Dip Net
C198-090-DN	19-Apr-05	1335	27°31.3'	59°5.8'	Dip Net
C198-094-DN	20-Apr-05	1210	25°9.1'	59°10.2'	Dip Net
C198-095-DN	20-Apr-05	1240	25°8.2'	59°9.5'	Dip Net
C198-027-GC	31-Mar-05	1053	29°33.7'	80°12.1'	Gravity Core
C198-025-SG	31-Mar-05	0000	28°8.64'	79°54.68'	Shipek Grab
C198-028-SG	31-Mar-05	1332	29°43.9'	80°25.9'	Shipek Grab
C198-033-SG	2-Apr-05	0000	30°51.5'	79°57.5'	Shipek Grab
C198-004-NT	27-Mar-05	1:10	23°59.0'	81°38.5'	Neuston Tow
C198-007-NT	27-Mar-05	12:14	23°50.5'	81°33.1'	Neuston Tow

C198-009-NT	28-Mar-05	0:14	24°11.6'	80°48.4'	Neuston Tow
C198-012-NT	28-Mar-05	12:10	25°12.7'	80°1.9'	Neuston Tow
C198-015-NT	29-Mar-05	2:10	26°28.9'	79°37.8'	Neuston Tow
C198-019-NT	29-Mar-05	11:52	26°25.6'	79°24.5'	Neuston Tow
C198-022-NT/MN	30-Mar-05	0:25	26°57.1'	79°14.7'	Neuston Tow and Meter Nets
C198-024-NT	30-Mar-05	12:08	27°23.0'	79°32.9'	Neuston Tow
C198-026-NT/MN	31-Mar-05	0:18	28°36.0'	80°0.9'	Neuston Tow and Meter Nets
C198-029-NT	31-Mar-05	15:41	29°47.0'	80°31.3'	Neuston Tow
C198-030-NT	31-Mar-05	22:50	29°58.2'	80°58.0'	Neuston Tow
C198-031-NT	1-Apr-05	13:40	30°27.4'	80°45.6'	Neuston Tow
C198-032-NT	2-Apr-05	0:47	30°39.5'	80°8.8'	Neuston Tow
C198-036-NT	4-Apr-05	0:38	31°19.6'	74°47.9'	Neuston Tow
C198-038-NT/MN	5-Apr-05	0:30	31°13.5'	73°37.4'	Neuston Tow and Meter Nets
C198-040-NT/MN	5-Apr-05	11:21	31°10.6'	73°14.9'	Neuston Tow and Meter Nets
C198-045-NT/MN	6-Apr-05	0:13	31°10.3'	72°18.4'	Neuston Tow and Meter Nets
C198-050-NT	6-Apr-05	12:25	31°1.3'	71°33.7'	Neuston Tow
C198-052-NT	6-Apr-05	23:45	31°9.0'	71°2.5'	Neuston Tow
C198-053-NT/MN	7-Apr-05	10:46	31°30.6'	70°17.6'	Neuston Tow and Meter Net
C198-054-NT	8-Apr-05	0:04	31°44.8'	69°6.4'	Neuston Tow
C198-056-NT	8-Apr-05	9:44	31°55.6'	68°30.4'	Neuston Tow
C198-057-NT	9-Apr-05	0:06	32°2.6'	67°15.3'	Neuston Tow
C198-058-NT	9-Apr-05	11:58	31°59.5'	66°1.6'	Neuston Tow
C198-059-NT	13-Apr-05	15:47	32°10.6'	64°41.9'	Neuston Tow
C198-062-NT	14-Apr-05	2:08	32°21.4'	64°7.1'	Neuston Tow
C198-064-NT	14-Apr-05	11:55	32°18.3'	63°23.4'	Neuston Tow
C198-065-NT/ MN	15-Apr-05	0:32	32°2.2'	62°47.5'	Neuston Tow and Meter Net
C198-067-NT	15-Apr-05	11:39	31°54.5'	62°14.7'	Neuston Tow
C-198-068-NT	15-Apr-05	23:58	31°24.5'	61°40.8'	Neuston Tow
C-198-071-NT	16-Apr-05	11:47	30°46.4'	61°19.7'	Neuston Tow
C198-076-NT	17-Apr-05	0:42	30°27.8'	60°58.5'	Neuston Tow
C-198-080-NT	17-Apr-05	13:48	30°3.5'	60°24.1'	Neuston Tow
C-198-082-NT	18-Apr-05	0:00	29°41.3'	59°58.2'	Neuston Tow
C198-085-NT	18-Apr-05	11:45	29°3.5'	59°34.4'	Neuston Tow
C198-088-NT	19-Apr-05	1:40	28°13.2'	59°15.0'	Neuston Tow
C198-091-NT	19-Apr-05	16:04	27°18.0'	59°4.2'	Neuston Tow
C198-093-NT	20-Apr-05	12:08	25°9.2'	59°10.3'	Neuston Tow
C198-096-NT/ MN	21-Apr-05	1:06	23°52.1'	59°1.8'	Neuston Tow and Meter Nets
C198-097-NT	22-Apr-05	12:52	20°40.3'	59°29.6'	Neuston Tow
C198-098-NT	22-Apr-05	23:47	20°15.9'	59°24.1'	Neuston Tow
C198-101-NT	23-Apr-05	17:59	19°45.7'	59°47.6'	Neuston Tow
C198-102-NT	24-Apr-05	0:05	19°18.8'	59°56.3'	Neuston Tow
C198-104-NT	24-Apr-05	12:03	18°46.3'	60°35.6'	Neuston Tow
C198-105-NT	24-Apr-05	23:27	18°34.0'	60°48.9'	Neuston Tow
C 198-108-NT	26-Apr-05	0:00	16°52.2'	61°21.7'	Neuston Tow
C198-111-NT	26-Apr-05	12:41	16°36.6'	61°45.5'	Neuston Tow
C198-018-MN	29-Mar-05	11:48	26°25.6'	79°24.0'	Meter Net
C198-041-NB	5-Apr-05	13:59	31°13.2'	73°9.2'	Single Niskin Bottle
C198-042-NB	5-Apr-05	17:15	31°11.8'	72°4.4'	Single Niskin Bottle
C198-043-NB	5-Apr-05	20:05	31°9.0'	72°6.6'	Single Niskin Bottle
C198-044-NB	5-Apr-05	23:58	31°10.27'	72°39.39'	Single Niskin Bottle
C198-046-NB	6-Apr-05	3:20	31°9.49'	72°87.87'	Single Niskin Bottle

C198-047-NB	6-Apr-05	7:05	31°10.7'	71°9.9'	Single Niskin Bottle
C198-048-NB	6-Apr-05	10:13	31°6.1'	71°1.1'	Single Niskin Bottle
C198-049-NB	6-Apr-05	12:10	31°2.1'	71°34.0'	Single Niskin Bottle
C198-070-NB	16-Apr-05	11:04	30°49.8'	61°19.2'	Single Niskin Bottle
C198-072-NB	16-Apr-05	13:50	30°41.2'	61°21.9'	Single Niskin Bottle
C198-073-NB	16-Apr-05	17:00	30°36.4'	61°12.1'	Single Niskin Bottle
C198-074-NB	16-Apr-05	20:00	30°32.7'	61°3.7'	Single Niskin Bottle
C198-075-NB	16-Apr-05	22:55	30°28.7'	60°59.0'	Single Niskin Bottle
C198-077-NB	17-Apr-05	2:00	30°29.6'	60°58.4'	Single Niskin Bottle
C198-078-NB	17-Apr-05	5:04	30°20.6'	60°50.5'	Single Niskin Bottle
C198-100-PN	4-Apr-05	8:00	19°45.7'	59°47.6'	Phytoplankton Net
C198-SS-001	29-Mar-05	2:30	26°29.0'	79°37.0'	Surface Station
C198-SS-002	29-Mar-05	20:30	28°17.0'	79°56.0'	Surface Station
C198-SS-003	31-Mar-05	16:23	29°47.0'	80°31.0'	Surface Station
C198-SS-004	2-Apr-05	7:33	30°59.7'	79°26.0'	Surface Station
C198-SS-005	2-Apr-05	12:05	31°12.8'	78°43.0'	Surface Station
C198-SS-006	2-Apr-05	18:12	31°21.5'	77°51.9'	Surface Station
C198-SS-007	2-Apr-05	19:09	31°21.0'	77°45.7'	Surface Station
C198-SS-008	2-Apr-05	20:00	31°19.8'	77°40.2'	Surface Station
C198-SS-009	3-Apr-05	0:00	31°17.3'	77°13.3'	Surface Station
C198-SS-010	3-Apr-05	5:16	31°10.0'	76°43.1'	Surface Station
C198-SS-011	7-Apr-05	1:53	31°12.0'	70°56.6'	Surface Station
C198-SS-012	7-Apr-05	5:00	31°19.0'	70°40.2'	Surface Station
C198-SS-013	7-Apr-05	12:30	31°32.2'	70°16.9'	Surface Station
C198-SS-014	7-Apr-05	17:15	31°36.4'	69°47.0'	Surface Station
C198-SS-015	7-Apr-05	18:15	31°37.3'	69°40.0'	Surface Station
C198-SS-016	7-Apr-05	19:15	31°37.9'	69°33.5'	Surface Station
C198-SS-017	8-Apr-05	17:22	32°1.1'	67°55.5'	Surface Station
C198-SS-018	8-Apr-05	18:22	32°1.5'	67°48.6'	Surface Station
C198-SS-019	8-Apr-05	19:16	32°2.0'	67°42.4'	Surface Station
C198-SS-020	8-Apr-05	23:40	32°2.6'	67°14.7'	Surface Station
C198-SS-021	9-Apr-05	3:10	32°1.5'	67°0.6'	Surface Station
C198-SS-022	9-Apr-05	5:30	32°0.7'	66°45.8'	Surface Station
C198-SS-023	9-Apr-05	9:30	32°0.4'	66°18.1'	Surface Station
C198-SS-024		12:10	31°59.4'	66°1.9'	Surface Station
C198-SS-025	15-Apr-05	17:00	31°48.8'	61°49.6'	Surface Station
C198-SS-026	15-Apr-05	18:00	31°48.6'	61°46.9'	Surface Station
C198-SS-027	15-Apr-05	17:20	31°48.8'	61°48.2'	Surface Station
C198-SS-028	15-Apr-05	21:00	31°40.6'	61°42.1'	Surface Station
C198-SS-029	16-Apr-05	0:06	31°44.5'	61°40.8'	Surface Station
C198-SS-030	16-Apr-05	3:00	31°21.1'	61°30.3'	Surface Station
C198-SS-031	16-Apr-05	6:00	31°13.1'	61°24.1'	Surface Station
C198-SS-032	16-Apr-05	9:15	31°0.8'	61°19.4'	Surface Station
C198-SS-033	16-Apr-05	12:00	30°46.4'	61°20.2'	Surface Station
C198-SS-034	16-Apr-05	17:53	30°35.0'	61°9.4'	Surface Station
C198-SS-035	18-Apr-05	6:00	29°28.2'	59°46.0'	Surface Station
C198-SS-036	18-Apr-05	9:00	29°10.7'	59°39.4'	Surface Station
C198-SS-037	18-Apr-05	12:00	29°4.5'	59°33.1'	Surface Station
C198-SS-038	18-Apr-05	18:00	28°40.8'	59°25.5'	Surface Station
C198-SS-039	18-Apr-05	23:20	28°26.5'	59°27.2'	Surface Station
C198-SS-040	18-Apr-05	22:00	28°16.5'	59°18.6'	Surface Station

C198-SS-041	21-Apr-05	21:00	21°49.1'	59°3.4'	Surface Station
C198-SS-042	22-Apr-05	0:00	21°19.7'	59°4.8'	Surface Station
C198-SS-043	22-Apr-05	6:00	20°59.8'	59°9.7'	Surface Station
C198-SS-044	22-Apr-05	9:00	20°41.8'	59°17.0'	Surface Station
C198-SS-045	22-Apr-05	12:00	20°38.2'	59°29.2'	Surface Station
C198-SS-046	22-Apr-05	12:00	20°45.0'	59°27.6'	Surface Station

Table 3: Hydrocast data

Station	Date	Time	Latitude deg. N	Longitude deg. W	Depth m	O ₂ mL/L	PO ₄ ³⁻ μM	Chl-a size fractions, μm			SiO ₂ μM	NO ₃ ⁻ μM	Fv/Fm Ratio	Chl-a >0.45μm	Bacteria Colonies	Cyanobact. cells/mL
								0.45-5.0	5.0-20	>20						
C198-008-HC/CTD	27-Mar-05	23:00	24.182	-80.810	10	4.39										
C198-008-HC/CTD	27-Mar-05	23:00	24.182	-80.810	60	4.69										
C198-008-HC/CTD	27-Mar-05	23:00	24.182	-80.810	110	4.57										
C198-008-HC/CTD	27-Mar-05	23:00	24.182	-80.810	160	3.67										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	10	4.85										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	35	4.84										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	60	4.82										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	85	4.90										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	110	4.78										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	135	4.62										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	160	4.07										
C198-013-HC/CTD	28-Mar-05	22:00	26.495	-79.883	185	4.79										
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	2		0.162	0.022	0.010	0.027	3.320	0.325	0.23			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	15	4.86	0.152	0.017	0.005	0.047	3.430	0.229	0.39			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	30	4.86	0.233	0.012	0.005	0.048	2.570	0.193	0.35			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	45	4.95	0.200	0.014	0.006	0.055	3.200	0.241	0.41			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568												
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	75	4.73	0.200	0.025	0.025	0.160	2.760	0.379	0.60			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	90	4.36	0.233	0.012	0.013	0.092	1.530	1.189	0.48			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	105	4.83	0.171	0.010	0.006	0.030	6.290	0.782	0.26			
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	120	5.00	0.267				4.730	0.502				
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	135	4.66	0.195				4.400	0.941				
C198-023-HC/CTD	30-Mar-05	8:10	27.195	-79.568	150	4.10	0.291				5.920	2.281				
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	2		0.243				4.840	0.346	0.11	0.176		908339
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	20	5.22	0.157				5.480	0.415	0.13	0.224		3540915
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	40	5.19	0.147				2.910	0.410	0.25	0.172		2021658
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	60		0.171				3.100	0.452	0.33	0.211		3287706
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	80		0.166	0.018	0.018	0.257	2.500	0.530	0.38	0.118		3412301
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	100		0.281				1.940	1.552	0.19			129901
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	120		0.324				4.280	2.233				
C198-037-HC.CTD	4-Apr-05	9:40	31.405	-74.395	140		0.252				7.190	2.108				

Station	Date	Time	Latitude	Longitude	Depth	O ₂	PO ₄ ³⁻	Chl-a size fractions, μM			SiO ₂	NO ₃ ⁻	Fv/Fm	Chl-a	Bacteria	Cyanobact.
								0.45-5.0	5.0-20	>20						
			deg. N	deg. W	m	mL/L	μM			μM	μM	Ratio	>0.45μm	Colonies	cells/mL	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	30	5.27	0.228	0.022	0.028	0.215		0.490	0.39	0.154		
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	80	5.25	0.219	0.026	0.030	0.201		0.571	0.35	0.156		
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	90	5.22	0.243	0.017	0.018	0.054		0.868	0.17	0.086		
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	120	5.19	0.281					1.448				
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	300	5.03	0.314					2.523			6	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	600	4.15	0.792					6.070			0	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	700	4.04									0	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	800	3.01									10	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	900	4.71									1	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478	1000										12	
C198-039-HC.CTD	5-Apr-05	4:45	31.178	-73.478												
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	2	5.33	0.214					0.166	0.09	0.050	74596	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	20		0.334					0.346	0.22	0.135	397901	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	40		0.195					0.258	0.45	0.506	1081165	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	60		0.214					0.408	0.47	0.170	1475046	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	80		0.248					1.227	0.23	0.202	23151	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	100	5.11	0.276					1.419	0.10	0.102	164787	
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	120	5.15	0.295					1.429				
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	150	5.15	0.281					1.640				
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	200	5.10	0.267					1.304				
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	300	5.06										
C198-048-HC.CTD	6-Apr-05	9:30	31.102	-71.635	450	4.47										
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	26											
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	367	5.10										
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	372											
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	373	4.76										
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	383	5.07										
C198-060-HC.CTD	13-Apr-05	15:47	32.255	-64.453	497											
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	2		0.101					7.263	0.422	0.17	0.061	
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	20	5.31	0.064					8.148	0.256	0.18	0.069	

Station	Date	Time	Latitude	Longitude	Depth	O ₂	PO ₄ ³⁻	Chl-a size fractions, μM			SiO ₂	NO ₃ ⁻	Fv/Fm	Chl-a	Bacteria	Cyanobact.
			deg. N	deg. W				m	mL/L	μM				0.45-5.0	5.0-20	>20
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	40	5.27	0.120						0.177	0.17	0.058	1840794
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	60	5.25	0.283						0.310	0.14	0.097	2588365
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	75											892262
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	75											1535334
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	75											
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	75	5.29	0.082	0.097	0.074	0.157	7.786	0.167	0.33	0.191		
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	95	5.14	0.032				10.577	0.625				1535334
C198-063-HC/CTD	14-Apr-05	8:25	32.328	-63.655	120	5.19	0.064					0.658				
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	2		0.051	0.018	0.014			0.322	0.19	0.03	1	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	20	5.05	0.032	0.017	0.045			0.633	0.18	0.036	3	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	40	4.95	0.057					0.366	0.07	0.062		
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	60	5.08	0.051	0.074	0.029			0.144	0.13	0.075	4	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	80	5.18	0.032	0.029	0.087			0.272	0.22	0.134	273	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	100	5.26	0.045	0.032	0.121			0.231	0.34	0.193	228	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	300	4.65	0.321					3.693			26	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	500	4.25	0.736					7.358			2	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	700	3.86	1.370					17.031			3	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	800	3.93	1.848					18.049			23	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	900	3.97	2.149					19.195			27	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	1000	4.38	2.225					19.729			33	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632	1200	4.18	1.232					13.238			6	
C198-079-HC/CTD	17-Apr-05	8:13	30.177	-60.632												
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	2		0.007	0.018	0.021		6.260	0.000	0.13	0.067		
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	20	5.07	0.038	0.014	0.031		6.206	0.002	0.20	0.035		
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	40	5.18	0.026	0.017	0.045		8.409	0.000	0.03	0.056		
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	60	5.07	0.012	0.077	0.079		9.629	0.000	0.19	0.207		
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	80											
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	80											
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	80											
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	76											
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	79	4.90	0.037	0.054	0.078		11.958	0.116	0.26	0.184		
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	98	4.44	0.095	0.033	0.034		9.502	1.308	0.04	0.073		

Station	Date	Time	Latitude	Longitude	Depth	O ₂	PO ₄ ³⁻	Chl-a size fractions, μM			SiO ₂	NO ₃ ⁻	Fv/Fm	Chl-a	Bacteria	Cyanobact.
			deg. N	deg. W				m	mL/L	μM						
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	118											
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	148	4.90	0.045			10.459	0.903		0.032			
C198-089-HC/CTD	19-Apr-05	9:20	27.788	-59.138	312	4.67	0.541			10.802	6.238					
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	2								0.027	81		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	20	4.83							0.024	95		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	40	4.98							0.027	57		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	60	4.94							0.03	44		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	80	4.94							0.042	39		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	100	4.93							0.079	50		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	200	4.47								74		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	300	4.57								74		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	500	4.31								28		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	650	3.82								63		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	800	3.58								70		
C198-092-HC/CTD	20-Apr-05	0:14	26.445	-59.073	1100	4.20	2.212				26.322			39		

Table 4. Niskin Bottle Data

Station	Date	Time	Bottle Depth, m	Oxygen mL/L	Temp deg. C	Salinity PSU	Fluorescence mV
C198-041-NB	5/Apr/05	13:59	2	5.41	20.0	36.8	904
C198-042-NB	5/Apr/05	17:15	2	5.45	19.8	36.8	1511
C198-043-NB	5/Apr/05	20:05	2	5.48	19.7	36.8	1595
C198-044-NB	5/Apr/05	23:58	2	5.54	19.4	36.7	2502
C198-046-NB	6/Apr/05	3:20	2	5.53	19.3	36.8	1709
C198-047-NB	6/Apr/05	7:05	2	5.06	19.4	36.6	1988
C198-048-NB	6/Apr/05	10:13	2	5.33	19.7	36.8	1248
C198-049-NB	6/Apr/05	12:10	2		19.9	36.8	1359
C198-061-CTD/NB	13/Apr/05	23:55	300	4.70			
C198-066-CTD/NB	15/Apr/05	7:57	313	5.19	20.5	36.7	947
C198-069-CTD/NB2	16/Apr/05	8:15	2	5.05	20.7	36.5	885
C198-069-CTD/NB1	16/Apr/05	8:15	420	4.41			
C198-070-NB	16/Apr/05	11:04	2	5.19	20.7	36.6	1090
C198-072-NB	16/Apr/05	13:50	2	4.29	20.8	36.8	966
C198-073-NB	16/Apr/05	17:00	2	5.13	20.9	36.8	610
C198-074-NB	16/Apr/05	20:00	2	5.31	20.2	36.6	912
C198-075-NB	16/Apr/05	22:55	2	5.23	20.1	36.6	1032
C198-077-NB	17/Apr/05	2:00	2	5.19	20.4	36.7	1105
C198-078-NB	17/Apr/05	5:04	2	5.05	20.9	36.9	757
C198-081-CTD/NB	17/Apr/05	21:00	350	4.01			

Table 5. Surface station data

Station	Date	Time	Latitude deg. N	Longitude deg. W	Temp deg. C	Salinity ppt	PO ₄ ³⁻ μM	Chl-a μg/L	Fv/Fm Ratio	NO ₃ ⁻ μM	<i>In Vivo</i> Fluoresc.	Cyanobact. cells/mL
C198-SS-001	29-Mar-05	2:30	26.483	-79.617	24.7	36.3		0.051	0.21		325	
C198-SS-002	29-Mar-05	20:30	28.283	-79.933	24.5	36.5		0.845			297	
C198-SS-003	31-Mar-05	16:23	29.783	-80.517	21.4	36.0					566	
C198-SS-004	2-Apr-05	7:33	30.995	-79.433	24.0	36.3	0.224	0.131	0.31	0.557	815	
C198-SS-005	2-Apr-05	12:05	31.213	-78.717	25.0	36.3	0.228	0.062	0.05	0.273	818	
C198-SS-006	2-Apr-05	18:12	31.358	-77.865	22.4	36.7	0.243	0.095	0.30	0.260	1151	
C198-SS-007	2-Apr-05	19:09	31.350	-77.762	22.4	36.8	0.209	0.074	0.20	0.239	829	
C198-SS-008	2-Apr-05	20:00	31.330	-77.670	22.3	36.8	0.181	0.108	0.30	0.233	1029	
C198-SS-009	3-Apr-05	0:00	31.288	-77.222	22.5	36.8	0.205	0.128	0.34	0.264	1011	
C198-SS-010	3-Apr-05	5:16	31.167	-76.718	21.6	36.6	0.205	0.169	0.38	0.227	1430	
C198-SS-011	7-Apr-05	1:53	31.200	-70.943	19.3	36.8	0.200	0.031	0.35	0.212	1976	542592
C198-SS-012	7-Apr-05	5:00	31.317	-70.670	18.4	36.8	0.267	0.039	0.28	0.181	2294	3741875
C198-SS-013	7-Apr-05	12:30	31.537	-70.282	19.9	36.8	0.195	0.015	0.13	0.195	1369	2387405
C198-SS-014	7-Apr-05	17:15	31.607	-69.783	19.5	36.8	0.238	0.030	0.30	0.220	3130	1784525
C198-SS-015	7-Apr-05	18:15	31.622	-69.667	19.3	36.8	0.224	0.031	0.21	0.189	2417	2098022
C198-SS-016	7-Apr-05	19:15	31.632	-69.558	19.5	36.8	0.228	0.028	0.23	0.179	2428	1868928
C198-SS-017	8-Apr-05	17:22	32.018	-67.925	19.7	36.7	0.205	0.011	0.17	0.220	2286	1856870
C198-SS-018	8-Apr-05	18:22	32.025	-67.810	19.2	36.7	0.209	0.009	0.25	0.413	1710	
C198-SS-019	8-Apr-05	19:16	32.033	-67.707	19.4	36.8	0.219	0.009	0.20	0.323	1762	
C198-SS-020	8-Apr-05	23:40	32.043	-67.245	19.9	36.8	0.300	0.009	0.19	0.298	2698	932454
C198-SS-021	9-Apr-05	3:10	32.025	-67.010	19.2	36.7	0.267	0.012	0.23	0.291	2317	1085184
C198-SS-022	9-Apr-05	5:30	32.012	-66.763	19.2	36.7	0.300	0.010	0.36	0.314	2308	1422797
C198-SS-023	9-Apr-05	9:30	32.007	-66.302	19.8	36.7	0.219	0.010	0.29	0.212	2730	1696102
C198-SS-024		12:10	31.990	-66.032	20.2	36.8	0.205	0.010	0.25	0.229	2438	2387405
C198-SS-025	15-Apr-05	17:00	31.813	-61.827	20.2	36.7	0.082	0.116	0.22	0.473	764	
C198-SS-026	15-Apr-05	18:00	31.810	-61.782	20.2	36.7	0.000	0.083	0.16	0.233	864	
C198-SS-027	15-Apr-05	17:20	31.813	-61.803	20.2	36.7		0.050			841	
C198-SS-028	15-Apr-05	21:00	31.677	-61.702	20.2	36.6	0.164	0.080	0.30	0.287	1323	2966170
C198-SS-029	16-Apr-05	0:06	31.742	-61.680	20.4	36.6	0.076	0.053	0.23	0.289	832	2049792

Station	Date	Time	Latitude deg. N	Longitude deg. W	Temp deg. C	Salinity ppt	PO ₄ ³⁻ μM	Chl-a μg/L	Fv/Fm PSU	NO ₃ ⁻ μM	<i>In Vivo</i> Fluoresc.	Cyanobact. cells/mL
C198-SS-030	16-Apr-05	3:00	31.352	-61.505	20.1	36.5	0.170	0.064	0.18	0.302	1067	8199168
C198-SS-031	16-Apr-05	6:00	31.218	-61.402	20.2	36.3		0.033	0.31	0.274	1005	2966170
C198-SS-032	16-Apr-05	9:15	31.013	-61.323	20.6	36.4	0.095	0.300	0.18	0.322	1032	450150
C198-SS-033	16-Apr-05	12:00	30.773	-61.337	20.1	36.6	0.265	0.121	0.31	0.300	1342	2186445
C198-SS-034	16-Apr-05	17:53	30.583	-61.157	20.9	36.8	0.158	0.009	0.13	0.238	651	
C198-SS-035	18-Apr-05	6:00	29.470	-61.157	21.8	36.8					346	
C198-SS-036	18-Apr-05	9:00	29.470	-59.767	21.8	36.8	0.070	0.009		0.223	466	1326336
C198-SS-037	18-Apr-05	12:00	29.178	-59.657	21.9	36.9	0.076	0.009		0.287	510	659149
C198-SS-038	18-Apr-05	18:00	29.075	-59.552	21.7	36.9	0.089	0.009		0.249	422	401920
C198-SS-039	18-Apr-05	23:20	28.680	-59.425	21.9	36.9	0.051	0.063	0.11	0.322	616	1077146
C198-SS-040	18-Apr-05	22:00	28.275	-59.310	22.2	37.0		0.028	0.09		287	924416
C198-SS-041	21-Apr-05	21:00	28.442	-59.453	26.6	36.7		0.023	Below detection			1487104
C198-SS-042	22-Apr-05	0:00	28.275	-59.310	27.0	36.7		0.044				
C198-SS-043	22-Apr-05	6:00	21.818	-59.057	27.0	36.6		0.027	limit			506419
C198-SS-044	22-Apr-05	9:00	20.997	-59.162	26.7	36.7		0.023	0.09			667187
C198-SS-045	22-Apr-05	12:00	20.697	-59.283	27.2	36.6		0.015	Below detect.			626995
C198-SS-046	22-Apr-05	12:00	20.637	-59.487	27.6	36.6		0.028	Limit			635034

Table 6: Neuston net tow data summary

Station	Date	Time	Latitude	Longitude	Temp.	Salinity	Zooplankton	Sargassum,	grams	General Locale
			deg. N	deg. W	deg. C	ppt	Density mL/m ²	S. natans	S. fluitans	
C198-004-NT	27-Mar-05	1:10	23.983	-81.642	26.7	36.3	0.0150	0	5	35nm S of Key West
C198-007-NT	27-Mar-05	12:14	23.842	-81.552	26.3	36.3	0.0162	60	80	60nm S of Key West
C198-009-NT	28/Mar/05	0:14	24.193	-80.807	25.8	36.2	0.0302	0	0	23nm NW of Elbow Cay
C198-012-NT	28-Mar-05	12:10	25.212	-80.032	24.7	36.1	0.0017	0	0	
C198-015-NT	29-Mar-05	2:10	26.482	-79.630	24.7	36.3	0.0033	0	115	Florida Shelf N of Miami
C198-019-NT	29-Mar-05	11:52	26.427	-79.408	25.0	36.3	0.0032	0	5	Florida Shelf W of Palm Beach
C198-022-NT	30-Mar-05	0:25	26.952	-79.245	25.4	36.2	0.1030	70	0	W of Little Bahama Bank
C198-024-NT	30-Mar-05	12:08	27.383	-79.548	25.8	36.4	0.0323	5	0	W of Little Bahama Bank
C198-026-NT	31-Mar-05	0:18	28.600	-80.015	23.9	36.5	0.0583	65	120	34nm E of Florida Coast
C198-029-NT	31-Mar-05	15:41	29.783	-80.522	21.2	35.8	0.1070	0	0	39nm E of Daytona Beach FL
C198-030-NT	31-Mar-05	22:50	29.970	-80.967	18.6	34.6	0.1600	0	0	19nm E of Anastasia I, FL
C198-031-NT	1-Apr-05	13:40	30.457	-80.760	19.7	35.6	0.0027	0	0	35 nm from Jacksonville, FL
C198-032-NT	2-Apr-05	0:47	30.658	-80.147	23.0	36.4	0.0051	0	5	E of Jacksonville, FL
C198-036-NT	4-Apr-05	0:38	31.327	-74.798	19.4	36.7	0.0086	0	0	E of Blake Plateau
C198-038-NT	5-Apr-05	0:30	31.225	-73.623	19.6	36.8	0.0320	0	0	Western Sargasso Sea
C198-040-NT	5-Apr-05	11:21	31.177	-73.248	19.9	36.8	0.0020	0	0	N Sargasso Sea
C198-045-NT	6-Apr-05	0:13	31.172	-72.307	19.4	36.7	0.2150	0	0	N Sargasso Sea
C198-050-NT	6-Apr-05	12:25	31.022	-71.562	19.9	36.8	0.0643	0	0	350 nm SW of Bermuda
C198-052-NT	6-Apr-05	23:45	31.150	-71.042	20.1	36.8	0.0280	0	0	N Sargasso Sea
C198-053-NT	7-Apr-05	10:46	31.510	-70.293	19.8	36.7	0.0173	0	0	N Sargasso Sea
C198-054-NT	8-Apr-05	0:04	31.747	-69.107	20.0	36.7	0.0215	0	0	SW of Bermuda
C198-056-NT	8-Apr-05	9:44	31.927	-68.507	20.1	36.8	0.0057	0	0	N Sargasso Sea
C198-057-NT	9-Apr-05	0:06	32.043	-67.255	19.3	36.8	0.0160	0	0	N Sargasso Sea W of Bermuda
C198-058-NT	9-Apr-05	11:58	31.992	-66.027	20.3	30.5	0.0578	0	0	80nm W of Bermuda
C198-059-NT	13/Apr/05	15:47	32.177	-64.698	20.7	36.9	0.0027	0	0	7 nm SE of Bermuda
C198-062-NT	14-Apr-05	2:08	32.357	-64.118	20.1	36.8	0.0030	0	0	E of Bermuda
C198-064-NT	14-Apr-05	11:55	32.305	-63.390	21.6	36.7	0.0041	0	0	E of Bermuda
C198-065-NT	15-Apr-05	0:32	32.037	-62.792	20.5	36.3	0.2400	0	0	SE of Bermuda
C198-067-NT	15-Apr-05	11:39	31.908	-62.245	20.0	36.7	0.0500	0	0	E of Bermuda
C-198-068-NT	15-Apr-05	23:58	31.408	-61.680	20.4	36.7	0.0972	0	0	E of Bermuda

C-198-071-NT	16-Apr-05	11:47	30.773	-61.328	20.1	36.6	0.1580	0	0	SE of Bermuda
C198-076-NT	17-Apr-05	0:42	30.463	-60.975	20.2	36.6	0.0059	0	0	
C-198-080-NT	17/Apr/05	13:48	30.058	-60.402	21.4	36.8	0.0054	0	0	SE of Bermuda
C-198-082-NT	18/Apr/05	0:00	29.688	-59.970	21.4	36.8	0.0108	0	2	SE of Bermuda
C198-085-NT	18-Apr-05	11:45	29.058	-59.573	21.8	36.9	0.0005	5	0	SE of Bermuda
C198-088-NT	19-Apr-05	1:40	28.220	-59.250	22.2	37.0	0.0007	5	0	SE of Bermuda
C198-091-NT	19-Apr-05	16:04	27.300	-59.070	23.5	37.0	0.0011	0	0	SE of Bermuda
C198-093-NT	20-Apr-05	12:08	25.153	-59.172	24.0	37.0	0.0020	100	0	Sargasso Sea
C198-096-NT	21-Apr-05	1:06	23.868	-59.030	25.0	37.0	0.0394	85	0	STCZ Area
C198-097-NT	22/Apr/05	12:52	20.672	-59.493	27.2	36.5	0.0022	0	550	S of STCZ
C198-098-NT	22-Apr-05	23:47	20.265	-59.402	27.3	36.7	0.0047	0	986	S of STCZ
C198-101-NT	23-Apr-05	17:59	19.762	-59.793	27.5	36.5	0.0086	0	5	South Sargasso Sea
C198-102-NT	24-Apr-05	0:05	19.313	-59.938	27.6	36.4	0.0042	0	55	South Sargasso Sea
C198-104-NT	24-Apr-05	12:03	18.772	-60.593	27.2	36.4	0.0040	0	600	60nm NE of Caribbean Islands
C198-105-NT	24-Apr-05	23:27	18.567	-60.815	27.5	36.2	0.0140	0	0	NE of lesser Antilles
C198-107-NT	25-Apr-05	11:36	17.722	-61.000	28.3	36.6	0.0090	0	0	NE of Guadelope
C 198-108-NT	26-Apr-05	0:00	16.870	-61.362	28.1	35.9	0.0267	0	0	E of Barbuda
C198-111-NT	26-Apr-05	12:41	16.610	-61.758	28.7	35.8	0.0023	0	0	btwn antigua, monti., and guadeloupe
C198-112-NT	28-Apr-05	0:19	17.672	-62.923	28.5	35.8	0.0270	0	0	NE of St. Eustatius
C198-113-NT	28-Apr-05	23:58	18.367	-64.128	28.6	36.0	0.1830	0	0	Caribbean Sea, BVIs

Table 7: Dip net data summary

Station	Date	Time	Latitude	Longitude	Temp	Salinity
			deg N	deg. W	Deg. C	PSU
C198-SS-027	15-Apr-05	1720	31.800	-61.456	20.2	36.6
C198-090-DN	19-Apr-05	1335	27.522	-59.097	22.6	36.9
C198-094-DN	20-Apr-05	1210	25.152	-59.170	24.0	37.0
C198-095-DN	20-Apr-05	1240	25.137	-59.158	24.0	37.0
C198-050-NT	6-Apr-05	12:25	31.022	-71.562	1852	19.9

Table 8. Meter net tow data summary

Station	Date	Time	Latitude	Longitude	Tow depth	Zooplankton	General Locale
			deg. N	deg. W	m	Density mL/m ³	
C198-018-MN	29-Mar-05	11:48	26.427	-79.408	50	0.044	Florida Shelf
C198-022-NT/MN	30-Mar-05	0:19	26.952	-79.245	51	0.088	5nm W of Little Bahama Bank
C198-026-MN	31-Mar-05	0:08	28.600	-80.015	50	0.170	34nm E of Florida Coast
C198-038-MN	5-Apr-05	0:23	31.223	-73.623	49	0.250	Western Sargasso Sea
C198-040-MN1	5-Apr-05	10:40	31.162	-73.258	500	0.051	N Sargasso Sea
C198-040-MN2	5-Apr-05	10:50	31.162	-73.258	400	0.050	N Sargasso Sea
C198-045-NT/MN	6-Apr-05	0:05	31.172	-72.305	50	0.462	N Sargasso Sea
C198-053-MN1	7-Apr-05	9:57	31.507	-70.242	450	0.021	N Sargasso Sea
C198-053-MN2	7-Apr-05	10:07	31.507	-70.242	350	0.015	N Sargasso Sea
C198-065-MN1	14-Apr-05	23:58	32.037	-62.792	300	0.078	SE of Bermuda
C198-065-MN2	15-Apr-05	0:14	32.037	-62.792	200	0.111	SE of Bermuda
C198-096-MN1	21-Apr-05	0:25	23.892	-59.032	300	0.009	Sub-tropical convergence zone
C198-096-MN2	21-Apr-05	0:25	23.892	-59.032	200	0.032	Sub-tropical convergence zone

