CRUISE REPORT

C-195

SCIENTIFIC ACTIVITIES UNDERTAKEN ABOARD THE

SSV Corwith Cramer

Woods Hole, MA – Bequia - Iles des Saintes - St. Croix USVI

14 October – 20 November 2004

Sea Education Association
Woods Hole, Massachusetts
To obtain unpublished data, contact the SEA data archivist:
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Sea Education Association
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Woods Hole, MA 02543

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Ship's Complement for SSV Corwith Cramer C-195

Nautical Staff

Binh Le
TC Collyer
PJ Meyer
Lizzy Grubin
Morgan Simmons
Sarah Kleb
Dr. Edward Walton
Rick Burns
Captain
Chief Mate
Second Mate
Third Mate
Engineer
Steward
Medical Officer
Guest Watchstander

Scientific Staff

Gary Jaroslow
Meg Estapa
Jen Barone
Justin Shaw
Chief Scientist
First Assistant Scientist
Second Assistant Scientist
Third Assistant Scientist

Observer

Thomas Nelson
Department of Fisheries
Ministry of Agriculture, Forestry and Fisheries
Pointe Seraphine, Castries
Saint Lucia

Students

Emma R. Bassein
Joel L. Cartwright
Catherine R. Crafts
Ian F. Dargon
Rachel A. Decker
Kathryn D. Feller
M. Charles Festa
Paul T. Fusco-Gessick
Amber E. Gillis
Kimberly A. Gniadek
Gavin E. Gregory
Travis L. Hollingsworth
Randolph M. Jones
Jonathan Liberzon
Maureen A. Lynch
Brittain M. Mason
Ann K. Miller
Madeleine C. Moulton
Sarah E. O'Connor
Elizabeth A. Ochoa
Stephanie R. Pritchard
Adele L. Roland
Elizabeth A. Summers
Yoana G. Voynova
Jeremy M. Wansor
Massachusetts Institute of Technology
Bowdoin College
UC, Santa Cruz
Colorado College
Oberlin College
Hobart & William Smith Colleges
URI, Narragansett Bay
Ithaca College
Hamilton College
Northeastern University
Colgate University
Georgetown University
Connecticut College
U of Michigan, Ann Arbor
Colgate University
Skidmore College
Wellesley College
Emerson College
University of New Hampshire
Cornell University
Middlebury College
Cornell University
Barnard College
Franklin & Marshall College
UC, San Diego
Data Description

This cruise report provides a record of data collected aboard the SSV Corwith Cramer during Cruise C-195 during October and November of 2004. The cruise track transected the North Atlantic Ocean from Woods Hole, MA to St. Croix, USVI (Fig. 1). The sea-going program is an extension of Sea Education Association (SEA) courses conducted for six weeks on shore in Woods Hole and emphasizes the application of theoretical concepts to the study of the oceans. Oceanographic research conducted during Cruise C-195 involved extensive data collection for individual student projects (Table 1) and ongoing SEA research programs. The student projects focused on current scientific problems in physical, chemical, biological, geological, and environmental oceanography, and stressed the interdisciplinary nature of the applied science. In particular, the complex interaction of oceanic processes was emphasized by interdisciplinary, regional, and temporal comparative analyses of the various data sets collected. Student research papers are available on request from SEA.

During the cruise, samples or data were collected at 153 discrete oceanographic stations (Table 2) in addition to continuously sampling water depth, sub-bottom acoustic profiling, Acoustic Doppler Current Profiles (ADCP) and flow-through sea surface temperature, salinity and in-vivo fluorescence. This report summarizes sea surface chemical properties (Table 3), subsurface physical, chemical and biological characteristics (Fig. 2, Tables 4 and 5), and surface sediment qualities (Table 6). Lengthy CTD, CHIRP, ADCP and flow-through data are not reported here. All unpublished data can be made available by arrangement with the SEA archivist (Contact information, p.2). The information contained 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.

Gary E. Jaroslow
Chief Scientist
C-195
Figure 1. Cruise-track map for Cruise C-195 of the SSV *Corwith Cramer* from October 14 - November 20, 2004. The cruise began in Woods Hole, MA USA, made port stops in the Caribbean islands of Bequia and Iles des Saintes and ended in St. Croix, USVI.
Figure 2. Data collected at CTD stations located in map (lower left, stations shown by blue dots). Along-track water temperature, salinity, transmissometer beam attenuation and in-vivo fluorescence (top and middle sections). Plots of water-column temperature and temperature versus salinity (lower right).
## Table 1. Student Research Projects

<table>
<thead>
<tr>
<th>Title</th>
<th>Student Researcher(s)</th>
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<tr>
<td>North Atlantic Oscillation and its affect on the formations of Eighteen Degree Water and Salinity Maximum Water</td>
<td>Ann Miller, Kimberly Gniadek</td>
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<tr>
<td>Flow variations in mesoscale eddies</td>
<td>Katie Crafts</td>
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<tr>
<td>Thermohaline structure of mesoscale eddies</td>
<td>Travis Hollingsworth</td>
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<td>Studying mesoscale eddies in the Sargasso Sea through nutrient signal</td>
<td>Emma Bassein, Stephanie Pritchard</td>
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<td>Diatom and dinoflagellate species variation in response to formation of mesoscale eddies in the North Atlantic</td>
<td>Yoana Voynova</td>
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<tr>
<td>Bathymetrically-induced flow and associated chemical and biological responses</td>
<td>Paul Fusco-Gessick</td>
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<td>Phytoplankton concentration and population composition in relation to wind-induced mixing in a transect of the Sargasso Sea</td>
<td>Kathryn Feller</td>
</tr>
<tr>
<td>Phytoplankton size and other factors contributing to the Deep Chlorophyll Maximum depth and magnitude from the temperate to tropical North Atlantic</td>
<td>Amber Gillis</td>
</tr>
<tr>
<td>The vertical distribution of dissolved oxygen in the Western Atlantic: a study of the SOM</td>
<td>Rachel Decker</td>
</tr>
<tr>
<td>Changes in light intensity as a cue for diel vertical migration in the North Atlantic</td>
<td>Elly Roland</td>
</tr>
<tr>
<td>Active transport of nutrients below the pycnocline by DVM zooplankton in the North Atlantic</td>
<td>Randolph Jones</td>
</tr>
<tr>
<td>Size-dependent timing of diel zooplankton migration as a test of the predator avoidance theory</td>
<td>Jonathon Liberzon</td>
</tr>
<tr>
<td>The lifecycle and seasonal variation of <em>Halobates micans</em> in the Atlantic Ocean</td>
<td>Ian Dargon</td>
</tr>
<tr>
<td>Distribution and relative health of myctophids in the Northwest Atlantic in relation to water masses and food availability</td>
<td>Maureen Lynch, Sarah O'Connor</td>
</tr>
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<td>Euthecosomatous pteropods as an indicator species for climate changing the southwestern North Atlantic</td>
<td>Joel Cartwright, Elizabeth Ochoa</td>
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<tr>
<td>The effects of hydrodynamic forces and sediment composition on bedform structure</td>
<td>M. Charles Festa, Brittain Mason, Jeremy Wansor</td>
</tr>
</tbody>
</table>
Sub-bottom structure and marine sedimentation patterns in the
tectonically active region of the southern Lesser Antilles

A comparison of compositional variations of sediment on the
windward versus leeward side of Bequia island, Lesser Antilles
island arc, East Caribbean

Gavin Gregory
Besty Summers
Madeleine Moulton
### Table 2: Oceanographic sampling stations

<table>
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<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>(nm)</th>
<th>(N)</th>
<th>(W)</th>
<th>Sampling Depth (m)</th>
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<td>6.5 nm S of Nantucket</td>
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<td>6.5 nm S of Nantucket</td>
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<td>*<em>Meter Nets</em></td>
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**Shipek Sediment Grabs**

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C195-047B-SG 5-Nov-04 0455 2246.0 12°59.9' 061°09.7' 44 Sill south of Bequia
C195-048-SG 5-Nov-04 0541 2252.0 12°55.0' 061°13.5' 30 Sill south of Bequia
C195-049-SG 5-Nov-04 0607 2253.0 12°54.1' 061°14.1' 95 Sill south of Bequia
C195-050-SG 5-Nov-04 0625 2253.0 12°53.9' 061°14.3' 225 Sill south of Bequia
C195-051-SG 5-Nov-04 0650 2253.2 12°53.9' 061°14.4' 344 Sill south of Bequia
C195-053-SG 8-Nov-04 1159 n/a 13°00.3' 061°14.7' 8 Admiralty Bay, Bequia
C195-054-SG 8-Nov-04 1230 n/a 13°00.3' 061°15.0' 34 Admiralty Bay, Bequia
C195-055-SG 8-Nov-04 1249 n/a 13°00.1' 061°15.3' 45 Admiralty Bay, Bequia
C195-056-SG 8-Nov-04 1312 n/a 13°00.9' 061°16.5' 79 Admiralty Bay, Bequia
C195-057-SG 8-Nov-04 1339 n/a 13°00.0' 061°16.8' 269 Admiralty Bay, Bequia
C195-058-SG 8-Nov-04 1401 n/a 13°00.0' 061°14.0' 323 Admiralty Bay, Bequia
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C195-002-HS 5-Nov-04 1420 n/a 13°00.3' 061°14.7' 1.5 Admiralty Bay, Bequia
C195-003-HS 5-Nov-04 1440 n/a 13°00.3' 061°14.7' 1.5 Admiralty Bay, Bequia
C195-004-HS 5-Nov-04 1500 n/a 13°00.3' 061°14.7' 1.8 Admiralty Bay, Bequia
C195-005-HS 5-Nov-04 1520 n/a 13°00.3' 061°14.7' 1.8 Admiralty Bay, Bequia
C195-006-HS 5-Nov-04 1540 n/a 13°00.3' 061°14.7' 2.3 Admiralty Bay, Bequia
C195-007-HS 5-Nov-04 1600 n/a 13°00.3' 061°14.7' 2.3 Admiralty Bay, Bequia
C195-009-HS 5-Nov-04 1620 n/a 13°00.3' 061°14.7' 2.5 Admiralty Bay, Bequia
C195-010-HS 6-Nov-04 1000 n/a 12°59.8' 061°14.7' 1.1 Friendship Bay, Bequia
C195-011-HS 6-Nov-04 1015 n/a 12°59.8' 061°14.7' 1.1 Friendship Bay, Bequia
C195-012-HS 6-Nov-04 1030 n/a 12°59.8' 061°14.7' 1.4 Friendship Bay, Bequia
C195-013-HS 6-Nov-04 1045 n/a 12°59.8' 061°14.7' 1.4 Friendship Bay, Bequia
C195-014-HS 6-Nov-04 1100 n/a 12°59.8' 061°14.7' 1.9 Friendship Bay, Bequia
C195-015-HS 6-Nov-04 1115 n/a 12°59.8' 061°14.7' 1.9 Friendship Bay, Bequia

*SG=Shipek Grab
HS=Hand Sample

**Phytoplankton Nets**

<p>| C-195-001-PN | 15-Oct-04 | 2000 | 0.0 | 41°21.5' | 70°46.9' | 0 |
| C-195-002-PN | 17-Oct-04 | 0700 | 72.7| 40°08.8' | 69°57.8' | 0 |
| C-195-003-PN | 17-Oct-04 | 1610 | 114.0| 39°57.5' | 69°28.3' | 0 |
| C-195-004-PN | 17-Oct-04 | 2319 | 152.1| 39°45.8' | 69°41.3' | 0 |
| C-195-005-PN | 18-Oct-04 | 1259 | 212.2| 39°45.4' | 67°00.5' | 0 |
| C-195-006-PN | 18-Oct-04 | 1759 | 234.4| 39°36.5' | 66°27.0' | 0 |
| C-195-007-PN | 19-Oct-04 | 0600 | 317.5| 38°42.0' | 65°01.8' | 0 |
| C-195-008-PN | 19-Oct-04 | 0641 | 323.2| 38°40.3' | 64°59.9' | 0 |
| C-195-009-PN | 19-Oct-04 | 1215 | 363.0| 38°16.6' | 64°22.5' | 0 |
| C-195-010-PN | 19-Oct-04 | 2051 | 402.5| 37°42.3' | 63°42.0' | 0 |
| C-195-011-PN | 20-Oct-04 | 0300 | 446.5| 37°04.1' | 63°11.9' | 0 |
| C-195-012-PN | 20-Oct-04 | 1015 | 485.9| 36°30.6' | 62°05.6' | 0 |
| C-195-013-PN | 20-Oct-04 | 1634 | 536.7| 35°49.5' | 62°12.6' | 0 |
| C-195-014-PN | 20-Oct-04 | 2315 | 584.5| 35°11.7' | 61°46.4' | 0 |
| C-195-015-PN | 21-Oct-04 | 0614 | 635.1| 34°29.1' | 61°22.6' | 0 |
| C-195-016-PN | 21-Oct-04 | 1540 | 688.8| 33°54.8' | 60°54.5' | 0 |
| C-195-017-PN | 22-Oct-04 | 0300 | 744.3| 33°17.8' | 60°30.9' | 0 |
| C-195-018-PN | 22-Oct-04 | 1400 | 798.7| 32°36.9' | 59°57.3' | 0 |
| C-195-019-PN | 22-Oct-04 | 2310 | 851.7| 31°56.5' | 59°19.1' | 0 |
| C-195-020-PN | 23-Oct-04 | 0710 | 913.3| 30°46.0' | 58°48.0' | 0 |
| C-195-021-PN | 23-Oct-04 | 1730 | 986.5| 29°58.3' | 58°35.2' | 0 |</p>
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Table 4: Neuston tow data. Locations given in Table 1.

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