

## NODC Electronic Data Documentation Form

NOAA FORM 24-13  
(Revised 9/2001)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE  
NATIONAL OCEANOGRAPHIC DATA CENTER  
SSMC-3 FOURTH FLOOR, 1315 EAST WEST HWY  
SILVER SPRING MD 20910-3282

FORM APPROVAL PENDING

This form should accompany all data submissions to the National Oceanographic Data Center. Section 1, Contributor Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent descriptive information about the submitted data at that time. Please include any relevant reports, publications, or other supporting documentation that assist in describing data collection, analysis, and format specifics.

### SECTION 1. CONTRIBUTOR IDENTIFICATION (PLEASE COMPLETE INFORMATION ABOUT WHO IS SENDING THE DATA TO NODC.)

1. Name of contributor  Ruth Curry	5. Telephone 1-508-289-2799
2. Organization/Institution name  Woods Hole Oceanographic Institution	6. Email rcurry@whoi.edu
3. Mailing address  MS #21	7. FAX
4. City                      Woods Hole State/Province        MA Zip/Postal Code        02543 Country                  USA	8. Other contact methods/information

### SECTION 2. DATA COLLECTOR IDENTIFICATION (PLEASE COMPLETE INFORMATION ABOUT WHO COLLECTED THESE DATA.)

1. Name of data collector  John Toole, Ruth Curry, Terry Joyce (WHOI) Bill Smethie (LDEO)	5. Telephone 508-289-2531 (Toole)    845-365-8566 (Smethie) 508-289-2799 (Curry)
2. Organization/Institution name  Woods Hole Oceanographic Institution	6. Email <a href="mailto:rcurry@whoi.edu">rcurry@whoi.edu</a> <a href="mailto:jtoole@whoi.edu">jtoole@whoi.edu</a> <a href="mailto:bsmeth@ldeo.columbia.edu">bsmeth@ldeo.columbia.edu</a>
3. Mailing address MS #21 WHOI	7. FAX
4. City                      Woods Hole State/Province        MA Zip/Postal Code        02543 Country                  USA	8. Other contact methods/information

**SECTION 3. GENERAL DATASET DESCRIPTION**  
**(PLEASE COMPLETE GENERAL INFORMATION ABOUT THESE DATA.)**

1. Dataset Title (if applicable) (may be sent in an included ASCII text file named "abcTITLE.TXT" where abc are your initials)

Line W Hydrography 2005apr\_cjlTITLE.TXT

2. Dataset Abstract (please provide a brief description of the contents of the dataset) (may be sent in an included ASCII text file named "abcABSTRACT.TXT" where abc are your initials)

2005apr\_cjlABSTRACT.TXT

3. Dataset Purpose (please provide a brief statement about the purpose for collecting these data) (may be sent in an included ASCII text file named "abcPURPOSE.TXT" where abc are your initials)

Line W is a sustained observational program focused on the cold limb of the Atlantic Meridional Overturning Circulation through high resolution measurements of the deep western boundary current (DWBC) southeast of New England. The field study consists of a 6-element moored array -- spanning the continental slope and underlying an altimeter satellite ground track -- and periodic reoccupations of a full-depth hydrographic section along the line extending from the continental shelf towards Bermuda.

2005apr\_cjlPURPOSE.TXT

4. Dataset collection dates

First day of data collection April 26, 2005

Last day of data collection May 3, 2005

5 Dataset location

Northernmost Latitude 40

Southernmost Latitude 35

Easternmost Longitude 67

Westernmost Longitude 70

Ocean/sea area names

Western North Atlantic Ocean

6. Platform(s) used to collect these data

Platform name(s) and type(s)

R/V Oceanus

7. Instruments used to collect these data

Instrument(s)

SeaBird 911plus with dual T and C sensors and 1 SBE-43 oxygen sensor.

Water samples were collected at discrete depth intervals using a rosette with 4 liter Niskin bottles.

8. Parameters measured

Parameters

Pressure (db)

Temperature (deg C)

Salinity (psu)

Dissolved Oxygen

CFC-11, CFC-12, CFC-113

9. Project name(s) Line W		10. Original cruise name(s) 32OC411		
11. Volume of data transferred (in bytes)  432		12. Filenames in data submission 2005apr.whp_btl 2005apr.whp_ctd.zip 2005apr.sum		
<p align="center"><b>SECTION 4. SCIENTIFIC CONTENT OF DATASET</b>  <b>(PLEASE COMPLETE SPECIFIC INFORMATION ABOUT THESE DATA.)</b></p> <p>Include enough information concerning the manner of observation, instrumentation, analysis, and data reduction techniques to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained 'as is' as a permanent part of the data and will be available for future users.</p> <p>Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of observational and analytical methods). Enter publication citation information here:</p>				
Scientific content citation:				
NAME OF MEASURED PARAMETER	UNIT OF MEASURE USED FOR PARAMETER	OBSERVATION METHOD AND INSTRUMENT USED (TYPE & MODEL	ANALYTICAL METHOD AND LABORATORY PROCEDURES USED (INCLUDING MODIFICATIONS)	DATA PROCESSING TECHNIQUES (WITH FILTERING AND AVERAGING)

**Downcast CTD 2-db**

SeaBird 911plus with dual  
T and C sensors and 1  
SBE-43 oxygen sensor.

- |                |             |
|----------------|-------------|
| 1. Pressure    | 1. Decibars |
| 2. Temperature | 2. deg C    |
| 3. Salinity    | (ITS-90)    |
| 4. Oxygen      | 3. PSS-78   |
|                | 4. umol/kg  |

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**Bottle Data**

CTD/Rosette equipped  
with 22 Niskin bottles.

- |                       |             |
|-----------------------|-------------|
| 1. Salinity           | 1. IPTS-68  |
| 2. Oxygen             | 2. umol/kg  |
| 3. CFC-11             | 3. pmol/kg  |
| 4. CFC-12             |             |
| 5. CFC-113            | 4. pmol/kg  |
| 6. CTD<br>Pressure    | 5. pmol/kg  |
| 7. CTD<br>Temperature | 6. Decibars |
| 8. CTD Salinity       | 7. ITS-90   |
| 9. CTD Oxygen         | 8. PSS-78   |
|                       | 9. umol/kg  |

**SECTION 5. DATA FORMAT OF DATASET****(PLEASE COMPLETE SPECIFIC INFORMATION ABOUT THE FORMAT OF THESE DATA.)**

Include enough information concerning the format of these data to make them understandable to future users. Furnish at least the minimum documentation considered relevant for your data. Documentation will be retained 'as is' as a permanent part of the data and will be available for future users. Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of the data format).

Data format information citation:

At a minimum, please include the following information:

1. Media type on which data were submitted (e.g., FTP, exabyte tape, etc.)

FTP

2. Name of included file that contains specific record layout, if applicable, including:

FIELD NAME, POSITION FROM 0 MEASURED IN (BITS, BYTES, ETC.), LENGTH (NUMBER, UNITS), ATTRIBUTES, USE AND MEANING

woce\_format.pdf

3. Brief description of file organization

2005apr.whp\_btl            This has the upcast CTD data and the Niskin bottle data.

2005apr.whp\_ctd.zip      This has downcast 2 decibar CTD data.

2005apr.sum              This is a metadata file about the cruise.

4. Record type(s)

ASCII/WOCE Hydrographic Programme Format

5. Data format information contact person

Name    Chris Lernihhan

Email    clernihan@whoi.edu

Telephone    1-508-289-2468

Address      Woods Hole Oceanographic Institution

MS #21

Woods Hole, MA

02543

USA

**SECTION 6. INSTRUMENT CALIBRATION****(PLEASE COMPLETE SPECIFIC CALIBRATION INFORMATION ABOUT INSTRUMENTS USED TO COLLECT THESE DATA.)**

Include enough information about instrument calibration to make it understandable to future users. Furnish the minimum documentation considered relevant for each instrument. Documentation will be retained 'as is' as a permanent part of the data and will be available for future users. Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of observational and analytical methods).

1. Name of included file that contains specific calibration details, if applicable, including:  
INSTRUMENT TYPE (MFR., MODEL#), DATE OF LAST CALIBRATION, LAST CALIBRATED BY (NAME,  
ORGANIZATION), INSTRUMENT CALIBRATED AT (FIXED INTERVALS/BEFORE USE/AFTER USE/BEFORE AND  
AFTER USE/ONLY AFTER REPAIR/ONLY WHEN NEW/OTHER (SPECIFY)/INSTRUMENT NOT CALIBRATED