

DATA DOCUMENTATION FORM

TT 5081  
REF 319562

NOAA FORM 24-13  
(4-77)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235

FORM APPROVED  
O.M.B. No. 41-R2651  
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <b>WOODS HOLE OCEANOGRAPHIC INST. WOODS HOLE, MA</b>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <b>109</b>	
4. PLATFORM NAME(S) <b>R/V ATLANTIS II</b>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <b>SHIP</b>	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
		7. DATES	
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		<b>08/2/81</b>	<b>09/06/81</b>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  <b>GENERAL AREA</b>	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  <b>George Heimerdinger 617 548 1400 X2492</b>			

### B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Pressure Temperature Salinity O <sub>2</sub>	Decabars deg. C Parts/thousand Mil/lit.	Neil Brown CTD " " " " " " " " "		<p>Ref: WHOI/Brown CTD microprofiler: methods of calibration and data handling. By N.P. Fofonoff, S.P. Hays, and R.C. Millard, Jr., Dec. 1974. WHOI Report 74-89</p> <p>Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 1982. WHOI Report 82-37</p> <p>Ref: CTD Calibration and Data Processing Techniques at WHOI Using the 1978 Practical Salinity Scale. by R.C. Millard, Jr. International STD Conference and Workshop 8-11 Feb. 1982</p>

### C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self documenting in that each field has a readable label. See sample file dump in "RECORD FORMAT DESCRIPTION" section.

**2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION**

This data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contains the basic sampling information for that station. The remaining records are data records. Each record is 35 char. long.

**3. ATTRIBUTES AS EXPRESSED IN**     PL-1     ALGOL     COBOL  
 FORTRAN     \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p><b>5. RECORDING MODE</b></p> <p><u>ASCII</u>    <input type="checkbox"/> BCD    <input type="checkbox"/> BINARY          or    <input checked="" type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC  <del>EBCDIC</del>    <input type="checkbox"/> _____</p>	<p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b>    <input type="checkbox"/> 3/4 INCH  <input type="checkbox"/> _____</p>
<p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____</p>	<p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p><b>7. PARITY</b></p> <p><input checked="" type="checkbox"/> ODD  <input type="checkbox"/> EVEN</p>	<p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p style="text-align: center; font-size: 1.2em;"><b>CTD-011</b></p>
<p><b>8. DENSITY</b></p> <p><del>800</del>    <input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI          or    <input type="checkbox"/> 556 BPI  <input checked="" type="checkbox"/> 1600    <input checked="" type="checkbox"/> 300-BPI  <input type="checkbox"/> _____</p>	<p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b></p> <p style="text-align: center; font-size: 1.2em;"><b>3500</b></p>
<p><b>13. LENGTH OF BYTES IN BITS</b></p>	

**RECORD FORMAT DESCRIPTION**

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DESCRIPTION 1ST</b>	<b>HEADER RECORD</b>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		5H	ALWAYS "SHIP $\emptyset$ " ( $\emptyset$ = blank)
SHIP CODE	7	2		A2	2 CHAR. SHIP CODE AT = ATLANTIS II, KN = KNORR OC = OCEANUS, ETC.
FIELD LABEL	9	7		7H	ALWAYS " $\emptyset$ CRUIS $\emptyset$ "
CRUISE NUMBER	16	3		I3	CRUISE NO.
FIELD LABEL	19	6		6H	ALWAYS " $\emptyset$ STAT:"
STATION NUMBER	25	4		I4	STATION NO.
BLANK	29	1			BLANK
FIELD LABEL	30	3		3H	ALWAYS "C#:"
CAST NUMBER	33	3		I3	CAST NO. USED FOR YO-YO STATIONS
	TOTAL = 35				
<b>DESCRIPTION 2ND</b>	<b>HEADER RECORD</b>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		H5	ALWAYS "DATE $\emptyset$ " ( $\emptyset$ = blank)
DATE:YEAR	7	2		I2	YEAR LAST TWO DIGITS
	9	1		H1	ALWAYS "-" FIELD SEPARATER
MONTH	10	2		I2	MONTH (1-12)
	12	1		H1	ALWAYS "-" FIELD SEPARATER
DAY	13	2		I2	DAY (1-31)
BLANK	15	2			BLANK
FIELD LABEL	17	6		H6	ALWAYS "TIME: $\emptyset$ "
TIME	23	4		I4	TIME GMT 24 HR. CLOCK
TIME LABEL	27	2		H2	ALWAYS " $\emptyset$ Z" SYMBOL FOR GMT OR ZULU TIME
BLANK	29	7			BLANK
	TOTAL = 35				

RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DESCRIPTION 3RD HEADER RECORD</b>					(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	4		4H	ALWAYS "LAT $\emptyset$ " ( $\emptyset$ = blank)
LATITUDE:DEGREES	6	3		I3	DEGREES OF LATITUDE NEGATIVE FOR SOUTH
LATITUDE:MINUTES	9	6		F6.2	MINUTES OF LATITUDE TO HUNDREDTHS OF A MINUTE
FIELD LABEL	15	4		4H	ALWAYS "LNG $\emptyset$ "
LONGITUDE:DEGREES	19	4		I4	DEGREES OF LONGITUDE NEGATIVE FOR WEST
LONGITUDE:MINUTES	23	6		F6.2	MINUTES OF LONGITUDE TO HUNDREDTHS OF A MINUTE
BLANK	29	7			BLANK
	TOTAL =	35			
<b>DESCRIPTION 4TH HEADER RECORD</b>					(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	9			ALWAYS "MAX. $\emptyset$ PRES=" ( $\emptyset$ =blank)
MAX.PRESSURE	11	6		F6.0	MAXIMUM PRESSURE REACHED BY THE CTD CAST, PRESSURE IN DECIBARS
FIELD LABEL	17	11		11H	ALWAYS " $\emptyset$ DB $\emptyset$ DEPTH="
DEPTH TO BOTTOM	28	6		F6.0	WATER DEPTH IN METERS
DEPTH LABEL	34	2		2H	ALWAYS " $\emptyset$ M" M = Meters
	TOTAL =	35			
<b>DESCRIPTION 5TH HEADER RECORD</b>					(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		5H	ALWAYS "AVER $\emptyset$ " ( $\emptyset$ = blank)
AVERAGING INTERVAL*	7	5		F5.1	ALL DATA REDUCED TO A COMMON REPORTING INTERVAL, IN DECIBARS
FIELD LABEL	12	6		6H	ALWAYS " $\emptyset$ INST $\emptyset$ "
INSTRUMENT NO.	18	4		I4	CTD INSTRUMENT NO.
FIELD LABEL	22	6		6H	ALWAYS " $\emptyset$ RATE $\emptyset$ "
SAMPLING RATE	28	6		F6.2	SAMPLING RATE IN HERTZ (SAMPLES/SECOND), TO HUNDREDTHS
UNITS LABEL	34	2			ALWAYS "HZ"
	TOTAL =	35			
* A NEGATIVE VALUE IN THIS FIELD INDICATES AN UP TRACE/PROFILE					

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>DESCRIPTION 6TH HEADER RECORD</u>					
BLANK	1	1			BLANK
FIELD LABEL	2	4		H4	ALWAYS "OBS="
TOTAL DATA CYCLES	6	6		I6	TOTAL NUMBER OF DATA CYCLES THIS STATION
FIELD LABEL	12	4		H4	ALWAYS "FM" MEANING FORMAT
FORTTRAN FORMAT	16	20		H20	ALWAYS "(F7.1,2F8.4,F6.2,I6)"
	TOTAL = 35				To READ DATA RECORD.
<u>DESCRIPTION 7TH HEADER RECORD</u>					
IF TAPE IS DUMPED, THIS RECORD PROVIDES COLUMN HEADING ON LISTING, CONTAINS NO STATION INFORMATION (see sample listing next page)					
<u>DESCRIPTION DATA RECORD</u>					
PRESSURE	1	7		F7.1	PRESSURE AS DECIBARS
TEMPERATURE	8	8		F8.4	TEMPERATURE AS DEGREES C.
SALINITY	16	8		F8.4	SALINITY AS PARTS/THOUSAND
OXYGEN	24	6		F6.2	OXYGEN AS ML/L
QUALITY WORD	30	6		I6	QUALITY CONTROL CODE SEE FOLLOWING TEXT
<p>Quality word defined: If positive, the quality word contains the number of observations from the time-series data that went into the pressure bin. Negative quality words denote data which has been interpolated. The value of the negative number reflects which variable or variables have been modified, based on the variable location in the CTD data file: -1 for T, -2 for S, -4 for O2, -3 for T &amp; S, -5 for T &amp; O, -6 for S &amp; O, -7 for T, S &amp; O. A positive quality word can be used to infer time and lowering rate: lowering rate = sample rate * pressure interval/quality #  time = start time(hr:min) + sample rate * summed quality (secs)</p>					
<p>NOTE: A field will be asterisk filled if the value in question exceeds the allocated field length. At this stage of processing this should not occur.</p>					

### RECORD FORMAT DESCRIPTION

**RECORD NAME**

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING																																																																																																				
		NUMBER	UNITS																																																																																																						
<p>SHIP KN CRUIS 66 STAT: 21 C#: 3</p> <p>DATE 77- 6- 2 TIME: 1200 Z</p> <p>LAT 38 2.00 LG -37 53.20</p> <p>MAX. PRS= 4157. DB DEPTH= 5968. M</p> <p>Y AVER 2.0 INST 4 RATE 31.00HZ</p> <p>OBS= 2076 FMT(F7.1,2F8.4,F6.2,I6)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">PRES</th> <th style="width: 10%;">TEMP</th> <th style="width: 10%;">SALT</th> <th style="width: 10%;">OXYG</th> <th style="width: 10%;">QUAL</th> </tr> </thead> <tbody> <tr><td>7.0</td><td>19.2491</td><td>36.1420</td><td>6.56</td><td>583</td></tr> <tr><td>9.0</td><td>19.2472</td><td>36.1421</td><td>5.27</td><td>75</td></tr> <tr><td>11.0</td><td>19.2472</td><td>36.1425</td><td>5.30</td><td>76</td></tr> <tr><td>13.0</td><td>19.2472</td><td>36.1426</td><td>5.34</td><td>131</td></tr> <tr><td>15.0</td><td>19.2477</td><td>36.1431</td><td>5.28</td><td>69</td></tr> <tr><td>17.0</td><td>19.2484</td><td>36.1429</td><td>5.28</td><td>70</td></tr> <tr><td>19.0</td><td>19.2482</td><td>36.1420</td><td>5.32</td><td>119</td></tr> <tr><td>21.0</td><td>19.2466</td><td>36.1410</td><td>5.29</td><td>65</td></tr> <tr><td>23.0</td><td>19.2419</td><td>36.1421</td><td>5.25</td><td>71</td></tr> <tr><td>25.0</td><td>19.2393</td><td>36.1458</td><td>5.30</td><td>97</td></tr> <tr><td>27.0</td><td>19.2378</td><td>36.1431</td><td>5.30</td><td>49</td></tr> <tr><td>29.0</td><td>19.2405</td><td>36.1439</td><td>5.31</td><td>42</td></tr> <tr><td>31.0</td><td>19.2343</td><td>36.1461</td><td>5.33</td><td>111</td></tr> <tr><td>33.0</td><td>19.2074</td><td>36.1484</td><td>5.32</td><td>88</td></tr> <tr><td>35.0</td><td>19.1652</td><td>36.1553</td><td>5.31</td><td>63</td></tr> <tr><td>37.0</td><td>19.1152</td><td>36.1576</td><td>5.37</td><td>135</td></tr> <tr><td>39.0</td><td>18.9882</td><td>36.1682</td><td>5.38</td><td>70</td></tr> <tr><td>41.0</td><td>18.8389</td><td>36.1837</td><td>5.38</td><td>55</td></tr> <tr><td>43.0</td><td>18.5625</td><td>36.2002</td><td>5.50</td><td>167</td></tr> </tbody> </table>						PRES	TEMP	SALT	OXYG	QUAL	7.0	19.2491	36.1420	6.56	583	9.0	19.2472	36.1421	5.27	75	11.0	19.2472	36.1425	5.30	76	13.0	19.2472	36.1426	5.34	131	15.0	19.2477	36.1431	5.28	69	17.0	19.2484	36.1429	5.28	70	19.0	19.2482	36.1420	5.32	119	21.0	19.2466	36.1410	5.29	65	23.0	19.2419	36.1421	5.25	71	25.0	19.2393	36.1458	5.30	97	27.0	19.2378	36.1431	5.30	49	29.0	19.2405	36.1439	5.31	42	31.0	19.2343	36.1461	5.33	111	33.0	19.2074	36.1484	5.32	88	35.0	19.1652	36.1553	5.31	63	37.0	19.1152	36.1576	5.37	135	39.0	18.9882	36.1682	5.38	70	41.0	18.8389	36.1837	5.38	55	43.0	18.5625	36.2002	5.50	167
PRES	TEMP	SALT	OXYG	QUAL																																																																																																					
7.0	19.2491	36.1420	6.56	583																																																																																																					
9.0	19.2472	36.1421	5.27	75																																																																																																					
11.0	19.2472	36.1425	5.30	76																																																																																																					
13.0	19.2472	36.1426	5.34	131																																																																																																					
15.0	19.2477	36.1431	5.28	69																																																																																																					
17.0	19.2484	36.1429	5.28	70																																																																																																					
19.0	19.2482	36.1420	5.32	119																																																																																																					
21.0	19.2466	36.1410	5.29	65																																																																																																					
23.0	19.2419	36.1421	5.25	71																																																																																																					
25.0	19.2393	36.1458	5.30	97																																																																																																					
27.0	19.2378	36.1431	5.30	49																																																																																																					
29.0	19.2405	36.1439	5.31	42																																																																																																					
31.0	19.2343	36.1461	5.33	111																																																																																																					
33.0	19.2074	36.1484	5.32	88																																																																																																					
35.0	19.1652	36.1553	5.31	63																																																																																																					
37.0	19.1152	36.1576	5.37	135																																																																																																					
39.0	18.9882	36.1682	5.38	70																																																																																																					
41.0	18.8389	36.1837	5.38	55																																																																																																					
43.0	18.5625	36.2002	5.50	167																																																																																																					

ACCESSION NO. 8500224 FILETYPE F022 <sup>C022</sup>

TRACK NO. TT5081

PROJECT IDENTIFICATION \_\_\_\_\_

REF 319562

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	9/27/85	lt	CTD#11 (A00029)	112	35	3500	228,501
DUPLICATE TAPE	10/4/85	lt	WD5641	1	35	3500	228,501
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>10/3/88</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED  
**TO MAKE SL COPY, AND MAKE OUTPUT 1 FILE INSTEAD OF 112. NEED 2 SCANS ON OUTPUT AND ALSO PRINT 3 PAGES OF RECORDS TWICE FOR F022 & C022 FOLDS**

INPUT MEDIUM PAPER CARD DISK <b>(TAPE)</b> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT <b>(TAPE)</b> PLOT DISKETTE OTHER(SPECIFY)
--	--

TAPE/DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
<b>CTD 11</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>(NL)</b>	<b>FB</b>	<b>35</b>	<b>3500</b>	<b>(112)</b>	
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
<b>W05641</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>(SL)</b>	<b>FB</b>	<b>35</b>	<b>3500</b>	<b>(1)</b>	
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNODE 8500224-01</b>				PURGE DATE

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------

USE ONLY					DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
DATE JOB COMPLETED	START TIME	END TIME	PRIORITY		
<b>10/3/88</b>			<b>0</b>		<b>MTAO-MTAI-2 minant</b>

REMARKS  
**Completed by E. G. Mack**

SER NAME: <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>9/27/85</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED  
**CTD RUN SCAN. PRINT 3 PAGES OF RECORDS**

INPUT MEDIUM PAPER CARD DISK <b>TAPE</b> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	---

**TAPE/DISKETTE INFORMATION**

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<b>CTD 11</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>NL</b>	<b>FB</b>	<b>35</b>	<b>3500</b>	<b>1/2</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------

**731 USE ONLY**

DATE	JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>9/30/85</b>				<b>C</b>	<b>MTAs - 10 min</b>

*Completed by E. G. Mason*

**TRANSMITTAL AND RECEIPT RECORD**  
(Please sign and return carbon copy acknowledging receipt)

**TO:** National Oceanographic Data Center  
3300 Whitehaven St., NW  
Washington, D.C. 20235

**REFER TO**

**ATTENTION** Dr. Tony Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY  
 ORDINARY MAIL     REGISTERED MAIL     AIR MAIL     CERTIFIED MAIL     GOVERNMENT TRUCK     BY HAND     OTHER

The following CTD data set is forwarded for processing and archiving:

R/V ATLANTIS II Cr. 109 Aug. 12 - Sept. 6 1981 112 sta.

These data have been released by Dr. Carl Wunsch and are for an east - west section along 24 degrees north. The data have been averaged to two decibar levels and are formatted to the WHOI/NODC exchange format.

- a..Tape CTD/11
- b..Sample tape dump of first five files
- c..NAPIS record
- d..DDF

#43 9/26/85  
RCC 8500224  
F022 - TT 5081  
C022 - 319562

cc: C. N. e

FORWARDED BY (Signature)  
*George Heiminger*  
RECEIVED BY (Signature)  
*[Signature]*

TITLE  
NODC Service Center Woods Hole  
TITLE

DATE FORWARDED  
Sept. 22, 86  
DATE RECEIVED  
9/27/85

SAMPLE DUMP

1st few records of  
The first 5 files

TAPE CTD-011

SHIP AT CRUIS 109 STAT: 150 C#: 0 - 1

DATE 81- 8-12 TIME: 226 Z

LAT 27 54.69 LG -13 21.92

MAX. PRS= 129. DB DEPTH= 112. M

AVER 2.0 INST 8 RATE 31.00HZ

OBS= 65 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	20.2243	36.1255	6.55	103
3.0	20.2307	36.1545	5.05	184
5.0	20.2319	36.1790	4.99	145
7.0	20.2327	36.1845	4.98	181
9.0	20.2324	36.2214	5.05	2715
11.0	20.2276	36.2317	4.99	261

SHIP AT CRUIS 109 STAT: 151 C#: 0 - 2

DATE 81- 8-12 TIME: 309 Z

LAT 27 54.00 LG -13 23.90

MAX. PRS= 279. DB DEPTH= 302. M

AVER 2.0 INST 8 RATE 31.00HZ

OBS= 140 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	20.2767	36.2288	4.78	74
3.0	20.2786	36.2458	5.38	112
5.0	20.2791	36.2467	5.39	144
7.0	20.2766	36.2464	5.33	84
9.0	20.2776	36.2459	5.19	158
11.0	20.2775	36.2461	5.26	146

SHIP AT CRUIS 109 STAT: 152 C#: 0 - 3

DATE 81- 8-12 TIME: 414 Z

LAT 27 52.94 LG -13 25.36

MAX. PRS= 549. DB DEPTH= 573. M

AVER 2.0 INST 8 RATE 31.00HZ

OBS= 275 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	20.1159	36.5080	5.67	106
3.0	20.3218	36.2530	5.47	109
5.0	20.3332	36.2507	5.51	123
7.0	20.3257	36.2508	5.40	225
9.0	20.3224	36.2511	5.36	523
11.0	20.3248	36.2506	5.34	122

SHIP AT CRUIS 109 STAT: 153 C#: 0 - 4

DATE 81- 8-12 TIME: 524 Z

LAT 27 51.00 LG -13 33.00

MAX. PRS= 983. DB DEPTH= 1008. M

AVER 2.0 INST 8 RATE 31.00HZ

OBS= 492 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	20.2080	36.3941	5.49	94
3.0	20.3284	36.2704	5.28	100
5.0	20.3365	36.2695	5.12	110
7.0	20.3359	36.2684	5.14	124
9.0	20.3356	36.2680	5.17	119
11.0	20.3263	36.2679	5.18	119

SHIP AT CRUIS 109 STAT: 154 C#: 0 - 5

DATE 81- 8-12 TIME: 757 Z

LAT 27 47.55 LG -13 49.12

MAX. PRS= 1521. DB DEPTH= 1513. M

AVER 2.0 INST 8 RATE 31.00HZ

OBS= 761 FMT(F7.1,2F8.4,F6.2,I6)

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8500224	C022	319562	9999	3102	31AN	1981/08/12	TT5081	156382
8500224	F022	TT5081	9999	3102	31AN	1981/08/12	109	156383

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
8500224	C022	319562	31AN	112	279	81/08/12	81/09/06
8500224	F022	TT5081	31AN	112	44547	81/08/12	81/09/06

(2 rows affected)