ACCESSION NUMBER 8700021

# DATA DOCUMENTATION FORM

A00397

NOAA FORM 24-13
(2-85)

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. 0648-0024
EXPIRES 2/29/87

TT8093-TT8094 F022
329513-329514 C022

**(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

Dr. Brad Butman
U.S. Geological Survey
Woods Hole Laboratory
Woods Hole, MA 02543

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

MMS Lydonia Canyon

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

R/V Oceanus Cruises 104 and 122

| 4. PLATFORM NAME(S) | 5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR NATIONALITY(IES) | | 7. DATES | |
|---|---|---|---|---|---|
| | | PLATFORM | OPERATOR | FROM: MO/DAY/YR | TO: MO/DAY/YR |
| R/V Oceanus | ship | Oceanus | USA | 9/29/81 | 10/01/81 |
| | | " " | " | 7/07/82 | 7/15/82 |

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

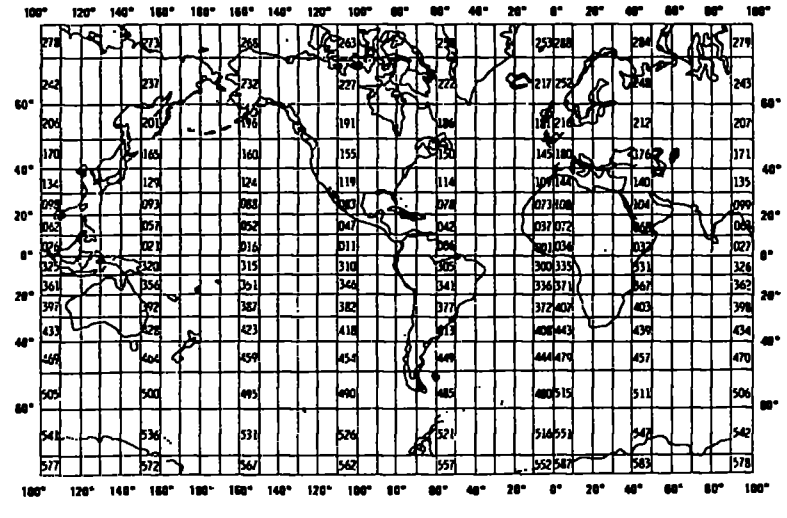
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

[XX] NO [ ] YES [ ] PART *(SPECIFY BELOW)*



10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER *(AND ADDRESS IF OTHER THAN IN ITEM-1)*

Mr. John Moody

Phone (617) 548 8700

## 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 |
|---|---|---|---|---|
| Depth | as pressure in decibars | Neil Brown, Mark III CTD profiler | | Butman, B., J. Moody, and S. Conley, 1986. Hydrography of Lydonia Canyon, Data Report for R/V Oceanus cruise 104, Sept. 25 - Oct. 2, 1981 U.S. Geological Survey, Open File Report 86-504 |
| Temperature | deg. C. | " " " | | |
| Salinity | in practical salinity units | " " " | | |
| Oxygen | ml/l | | | |
| Light Transmission | as beam attenuation cofficent | | | |

## 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 40 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

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☒ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

CTDØ25
CTD/Light Trans. Data, B. Butman, USGS. R/V Oceanus Cr. 104 and 122. Expanded version of the WHOI/NODC CTD exchange format recsize=40 bytes

12. PHYSICAL BLOCK LENGTH IN BYTES
recsize=40 blksize=4000

13. LENGTH OF BYTES IN BITS

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME _____

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|---|---|---|---|---|
| DESCRIPTION 1ST HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | 5H | ALWAYS "SHIPb" (b = blank) |
| SHIP CODE | 7 | 2 | | A2 | 2 CHAR. SHIP CODE<br>AT = ATLANTIS II, KN = KNORR<br>OC = OCEANUS, ETC. |
| FIELD LABEL | 9 | 7 | | 7H | ALWAYS "bCRUISb" |
| CRUISE NUMBER | 16 | 3 | | I3 | CRUISE NO. |
| FIELD LABEL | 19 | 6 | | 6H | ALWAYS "bSTAT:" |
| 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 |
| BLANK | 36 | 5 | | | |
| | TOTAL = | 40 | | | |
| DESCRIPTION 2ND HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | H5 | ALWAYS "DATEb" (b = 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:b" |
| TIME | 23 | 4 | | I4 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 | | H2 | ALWAYS "bZ" SYMBOL FOR GMT OR ZULU TIME |
| BLANK | 29 | 12 | | | BLANK |
| | TOTAL = | 40 | | | |

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME _____

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|---|---|---|---|---|---|
| DESCRIPTION 3RD HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 4 | | 4H | ALWAYS "LATb" (b = 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 "bLGb" |
| 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 | 12 | | | BLANK |
| | TOTAL = | 40 | | | |
| DESCRIPTION 4TH HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 9 | | | ALWAYS "MAX.bPRES=" (b=blank) |
| MAX.PRESSURE | 11 | 6 | | F6.0 | MAXIMUM PRESSURE REACHED BY THE CTD CAST, PRESSURE IN DECIBARS |
| FIELD LABEL | 17 | 11 | | 11H | ALWAYS "bDBbbDEPTH=" |
| DEPTH TO BOTTOM | 28 | 6 | | F6.0 | WATER DEPTH IN METERS |
| DEPTH LABEL | 34 | 2 | | 2H | ALWAYS "bM" M = Meters |
| BLANK | 36 | 5 | | | |
| | Total = | 40 | | | |
| DESCRIPTION 5TH HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | 5H | ALWAYS "AVERb" (b = blank) |
| AVERAGING INTERVAL* | 7 | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON REPORTING INTERVAL, IN DECIBARS |
| FIELD LABEL | 12 | 6 | | 6H | ALWAYS "bINSTb" |
| INSTRUMENT NO. | 18 | 4 | | I4 | CTD INSTRUMENT NO. |
| FIELD LABEL | 22 | 6 | | 6H | ALWAYS "bRATEb" |
| SAMPLING RATE | 28 | 6 | | F6.2 | SAMPLING RATE IN HERTZ (SAMPLES/SECOND), TO HUNDREDTHS |
| UNITS LABEL | 34 | 2 | | | ALWAYS "HZ" |
| BLANK | 36 | 5 | | | |
| | Total = | 40 | | | |

* A NEGATIVE VALUE IN THIS FIELD INDICATES AN UP TRACE/PROFILE

NOAA FORM 24-13

## RECORD FORMAT DESCRIPTION

RECORD NAME _____

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|---|---|---|---|---|
| DESCRIPTION 6TH HEADER RECORD | | | | | |
| 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 "ØFMT" MEANING FORMAT |
| FORTRAN FORMAT | 16 | | | | USED TO READ DATA RECORD SEE ATTACHED SAMPLE DUMP |
| BLANK | 36 | 5 | | | |
| | TOTAL = | 40 | | | |
| DESCRIPTION 7TH HEADER RECORD | | | | | |
| IF TAPE IS DUMPED, THIS RECORD PROVIDES COLUMN HEADING ON LISTING, CONTAINS NO STATION INFORMATION (see sample listing next page) | | | | | |
| DESCRIPTION DATA RECORD | | | | | |
| 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 |
| Light Trans. | 36 | 5 | | F5.2 | Light beam attenuation coefficient |
| | TOTAL = | 40 | | | |

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[redacted] data file: -1 for T, -2 for S, -4 for 02, -3 for T & S, -5 for T & O, -6 for S & O, -7 for T,S & 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)

NOTE: A field will be asterisk filled if the value in question exceeds the alocated field length. At this stage of processing this should not occur.

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|---|---|---|---|---|
| | | | | | |

SHIP OC CRUIS 140 STAT: 023 C#:
DATE 83-10-22 TIME: 0736 Z
LAT 40 19.4 LG -68 40.2
MAX. PRS= 98. 08 DEPTH= 101 M
AVER 2.0 INST 0038 RATE 31.25HZ
OBS= 49 FMT(F7.1,2F8.4,F5.2,16,F5.2)

| PRES | TEMP | SALT | OXYG | QUAL | EXTC |
|---|---|---|---|---|---|
| 3.0 | 14.3828 | 33.2380 | 5.77 | 0 | 0.23 |
| 4.0 | 14.4048 | 33.2441 | 5.73 | 0 | 0.23 |
| 6.0 | 14.4043 | 33.2444 | 5.81 | 0 | 0.23 |
| 8.0 | 14.3971 | 33.2419 | 5.78 | 0 | 0.23 |
| 10.0 | 14.4021 | 33.2425 | 5.71 | 0 | 0.24 |
| 12.0 | 14.3969 | 33.2404 | 5.73 | 0 | 0.23 |
| 14.0 | 14.3946 | 33.2400 | 5.72 | 0 | 0.23 |
| 16.0 | 14.3950 | 33.2396 | 5.80 | 0 | 0.23 |
| 18.0 | 14.3881 | 33.2374 | 5.86 | 0 | 0.23 |
| 20.0 | 14.3867 | 33.2360 | 5.89 | 0 | 0.23 |
| 22.0 | 14.3880 | 33.2363 | 5.91 | 0 | 0.23 |
| 24.0 | 14.4019 | 33.2415 | 5.90 | 0 | 0.23 |
| 26.0 | 14.3756 | 33.2559 | 5.83 | 0 | 0.23 |
| 28.0 | 14.2719 | 33.3173 | 5.80 | 0 | 0.21 |
| 30.0 | 14.1124 | 33.2945 | 5.84 | 0 | 0.20 |
| 32.0 | 14.1004 | 33.2953 | 5.77 | 0 | 0.20 |
| 34.0 | 14.0904 | 33.2935 | 5.80 | 0 | 0.20 |
| 36.0 | 14.0453 | 33.2885 | 5.80 | 0 | 0.20 |
| 38.0 | 14.1024 | 33.3509 | 5.73 | 0 | 0.19 |
| 40.0 | 13.9846 | 33.3749 | 5.73 | 0 | 0.17 |
| 42.0 | 13.4409 | 33.3409 | 5.71 | 0 | 0.17 |
| 44.0 | 11.7240 | 32.9736 | 5.91 | 0 | 0.16 |
| 46.0 | 11.3350 | 32.9713 | 5.80 | 0 | 0.15 |
| 48.0 | 10.9679 | 32.9529 | 5.80 | 0 | 0.15 |

INVENTORY Record found

Record 18636 on screen

167135 DATA ENTRY INFORMATION SYSTEM FJM

(DATASET INVENTORY) 8700021

DATE OF ENTRY: 06/24/87

REFERENCE NUMBER: TT8094 ACCESSION NUMBER: 8700021

FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

---

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09

EXCHANGE (FORMAT): E071 - WHOI CTD Exchange

PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 31W4

PLATFORM (COUNTRY AND PLATFORM CODES): 320C

PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: 122

CRUISE START DATE: 07/07/82 CRUISE END DATE: 07/15/82 Press PgDn

PROJECT CODE: DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 66 NUMBER OF RECORDS: 1,593

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:

AVERAGE REC SIZE: 120 MBYTES: 0.191160

---

OCEAN AREA

CODE 1: 23B MEANING: NW Atlantic (limit-40 W)

CODE 2: MEANING:

CODE 3: MEANING:

---

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY Record found
Record 18634 on screen
167133 DATA ENTRY INFORMATION SYSTEM FJM
(DATASET INVENTORY)

DATE OF ENTRY: 06/24/87

REFERENCE NUMBER: TT8093 ACCESSION NUMBER: 8700021
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

---

INVENTORY
MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E071 - WHOI CTD Exchange
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 31W4
PLATFORM (COUNTRY AND PLATFORM CODES): 320C
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: 104
CRUISE START DATE: 09/29/81 CRUISE END DATE: 10/01/81 Press PgDn
PROJECT CODE: DATA USE CODE (DUC): 3 to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 34 NUMBER OF RECORDS: 791

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:

AVERAGE REC SIZE: 120 MBYTES: 0.094920

---

OCEAN AREA
CODE 1: 23B MEANING: NW Atlantic (limit-40 W)
CODE 2: MEANING:
CODE 3: MEANING:

---

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

ACCESSION 8700021 FILETYPE F022 TRACK NO. _____ PROJECT IDENTIFICATION _____

| STEP | DATE | INIT. | TAPE OR DISK DSN | NO. FILES | LRECL | BLK SIZE | NO. RECORDS |
|---|---|---|---|---|---|---|---|
| ORIG. TAPE | 1/23/87 | MRL | A00397/CTD025 | 100 | 40 | 4000 | |
| DUPLICATE TAPE | 1/[illegible]/87 | MRL | W02970 | 100 | 40 | 4000 | |
| REFORMATTED TAPE | | ~~MRL~~ RPS | OCEANOUT. | 1 | | | 2384 |
| 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.)

C DATA.F022TT8093

NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## TRANSMITTAL AND RECEIPT RECORD

*(Please sign and return carbon copy acknowledging receipt)*

| | |
|---|---|
| National Oceanographic Data Ctr.<br>1825 Connecticut Ave., NW<br>Washington, D.C. 20235 | REFER TO<br>ATTENTION Dr. Tony Picciolo |

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

XX ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

The enclosed reel of magnetic tape (CTDØ25) contains the CTD/Light trans. data for the following cruises.

Files: 1-66 R/V Oceanus Cr. 122 Jul 7 - 14 1982 66 stations
67-100 " " Cr. 104 Sep 29- Oct. 1, 1981 34 stations

These data were released by Dr. Brad Butman, U.S. Geological Survey - Woods Hole Lab., and are part of the Minerals Management Service funded research in the area of the Lydonia Canyon (New England Continental Margin). These data have been formated to an expanded version of the WHOI/NODC CTD exchange format. The format has been simply expanded by 5 bytes to accommodate the parameter of light transmission.

a..Tape CTDØ25 (9track, 1600 bpi, ASCII, recsize=40, blksize=4000, 100 files)

b..Sample dump of selected stations

c..DDF

#420/12-11-86

8700021

A00397

cc: B. Butman, J. Moody

Approx. 9,000 records

| FORWARDED BY (Signature) | TITLE | DATE FORWARDED |
|---|---|---|
| Jorge Heimerdinger | NODC Northeast Service Center Rep. | Dec. 8, 86 |
| RECEIVED BY (Signature) | TITLE | DATE RECEIVED |
| S. Mitchell | | 12-11-86 |

NOAA FORM 24-5 (8-73)

ACCESSION J. 8700021 FILETYPE C022 TRACK NO. _____ IDE. _____

| STEP | DATE | INIT. | TAPE OR DISK DSN | NO. FILES | LRECL | BLK SIZE | NO. RECORDS |
|---|---|---|---|---|---|---|---|
| ORIG. TAPE | 1/13/87 | MRL | A00397 /CTD025 | 100 | 40 | 4000 | |
| DUPLICATE TAPE | 1/14/87 | MRL | WO2970* | 100 | 40 | 4000 | |
| REFORMATTED TAPE | | | | | | | |
| REFORMATTED DISK | | RPS | DNODC.X-OCEANOUT. | 1 | 120 | 2244 | 2354 |
| FIRST MULCHEK | | | | | | | |
| FINAL MULCHEK | | | | | | | |
| MPD75 OR F022 | | | | | | | |
| DATA SET FINALIZED | | | | | | | |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: *DNODC* 8700021-01

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

# TRANSMITTAL AND RECEIPT RECORD

*(Please sign and return carbon copy acknowledging receipt)*

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| National Oceanographic ata Ctr.<br>1825 Connecticut Ave., NW<br>Washington, D.C. 20235 | REFER TO<br>ATTENTION Dr. Tony Picciolo |

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XX ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

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67-100 " " Cr. 104 Sep 29- Oct. 1, 1981 34 stations

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a..Tape CTDØ25 (9track, 1600 bpi, ASCII, recsize=40, blksize=4000, 100 files)

b..Sample dump of selected stations

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#420/12-11-86

8700021

A00397

cc: B. Butman, J. Moody

Approx. 9,000 records

| FORWARDED BY (Signature) | TITLE | DATE FORWARDED |
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NOAA FORM 24-5 (8-73)

ACCESSION NUMBER 8700021

A00397

# DATA DOCUMENTATION FORM

NOAA FORM 24-13
(2-85)

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. 0648-0024
*EXPIRES 2/29/87*

(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.)

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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Brad Butman
U.S. Geological Survey
Woods Hole Laboratory
Woods Hole, MA 02543

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

MMS Lydonia Canyon

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

R/V Oceanus Cruises 104 and 122

| 4. PLATFORM NAME(S) | 5. PLATFORM TYPE(S) *(E.G., SHIP, BUOY, ETC.)* | 6. PLATFORM AND OPERATOR NATIONALITY(IES) | | 7. DATES | |
|---|---|---|---|---|---|
| | | PLATFORM | OPERATOR | FROM: MO/DAY/YR | TO: MO/DAY/YR |
| R/V Oceanus | ship | Oceanus<br>" " | USA<br>" | 9/29/81<br>7/07/82 | 10/01/81<br>7/15/82 |

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

[XX] NO [ ] YES [ ] PART *(SPECIFY BELOW)*

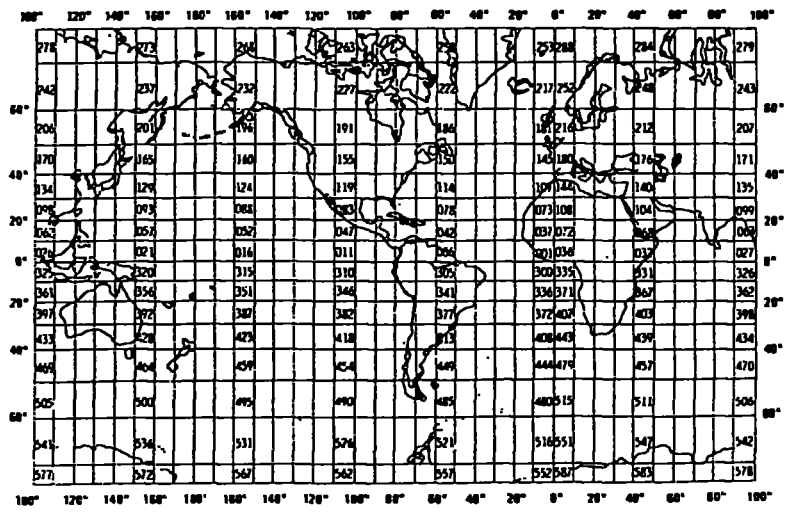
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER *(AND ADDRESS IF OTHER THAN IN ITEM-1)*

Mr. John Moody

Phone (617) 548 8700

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA



NOAA FORM 24-13

## 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 |
|---|---|---|---|---|
| Depth | as pressure in decibars | Neil Brown, Mark III CTD profiler | | Butman, B., J. Moody, and S. Conley, 1986. Hydrography of Lydonia Canyon, Data Report for R/V Oceanus cruise 104, Sept. 25 - Oct. 2, 1981 U.S. Geological Survey, Open File Report 86-504 |
| Temperature | deg. C. | " " " | | |
| Salinity | in practical salinity units | " " " | | |
| Oxygen | ml/l | | | |
| Light Transmission | as beam attenuation cofficent | | | |

## 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 40 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

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☒ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

CTDØ25
CTD/Light Trans. Data, B. Butman, USGS. R/V Oceanus Cr. 104 and 122. Expanded version of the WHOI/NODC CTD exchange format recsize=40 bytes

12. PHYSICAL BLOCK LENGTH IN BYTES
recsize=40 blksize=4000

13. LENGTH OF BYTES IN BITS

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME _____

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|---|---|---|---|---|
| DESCRIPTION 1ST HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | 5H | ALWAYS "SHIP⌀" (⌀ = blank) |
| SHIP CODE | 7 | 2 | | A2 | 2 CHAR. SHIP CODE<br>AT = ATLANTIS II, KN = KNORR<br>OC = OCEANUS, ETC. |
| FIELD LABEL | 9 | 7 | | 7H | ALWAYS "⌀CRUIS⌀" |
| CRUISE NUMBER | 16 | 3 | | I3 | CRUISE NO. |
| FIELD LABEL | 19 | 6 | | 6H | ALWAYS "⌀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 |
| BLANK | 36 | 5 | | | |
| | TOTAL = | 40 | | | |
| DESCRIPTION 2ND HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | H5 | ALWAYS "DATE⌀" (⌀ = 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:⌀" |
| TIME | 23 | 4 | | I4 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 | | H2 | ALWAYS "⌀Z" SYMBOL FOR GMT OR ZULU TIME |
| BLANK | 29 | 12 | | | BLANK |
| | TOTAL = | 40 | | | |

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME _____

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|---|---|---|---|---|
| DESCRIPTION 3RD HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 4 | | 4H | ALWAYS "LATb" (b = 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 "bLGb" |
| 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 | 12 | | | BLANK |
| | TOTAL = | 40 | | | |
| DESCRIPTION 4TH HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 9 | | | ALWAYS "MAX.bPRES=" (b=blank) |
| MAX.PRESSURE | 11 | 6 | | F6.0 | MAXIMUM PRESSURE REACHED BY THE CTD CAST, PRESSURE IN DECIBARS |
| FIELD LABEL | 17 | 11 | | 11H | ALWAYS "bDBbbDEPTH=" |
| DEPTH TO BOTTOM | 28 | 6 | | F6.0 | WATER DEPTH IN METERS |
| DEPTH LABEL | 34 | 2 | | 2H | ALWAYS "bM" M = Meters |
| BLANK | 36 | 5 | | | |
| | Total = | 40 | | | |
| DESCRIPTION 5TH HEADER RECORD | | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | 5H | ALWAYS "AVERb" (b = blank) |
| AVERAGING INTERVAL* | 7 | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON REPORTING INTERVAL, IN DECIBARS |
| FIELD LABEL | 12 | 6 | | 6H | ALWAYS "bINSTb" |
| INSTRUMENT NO. | 18 | 4 | | I4 | CTD INSTRUMENT NO. |
| FIELD LABEL | 22 | 6 | | 6H | ALWAYS "bRATEb" |
| SAMPLING RATE | 28 | 6 | | F6.2 | SAMPLING RATE IN HERTZ (SAMPLES/SECOND), TO HUNDREDTHS |
| UNITS LABEL | 34 | 2 | | | ALWAYS "HZ" |
| BLANK | 36 | 5 | | | |
| | Total = | 40 | | | |

* A NEGATIVE VALUE IN THIS FIELD INDICATES AN UP TRACE/PROFILE

NOAA FORM 24-13

# RECORD FORMAT DESCRIPTION

RECORD NAME _____

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES - | 18. USE AND MEANING |
|---|---|---|---|---|---|
| DESCRIPTION 6TH HEADER RECORD | | | | | |
| 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 "ØFMT" MEANING FORMAT |
| FORTRAN FORMAT | 16 | | | | USED TO READ DATA RECORD SEE ATTACHED SAMPLE DUMP |
| BLANK | 36 | 5 | | | |
| | TOTAL = | 40 | | | |
| DESCRIPTION 7TH HEADER RECORD | | | | | |
| IF TAPE IS DUMPED, THIS RECORD PROVIDES COLUMN HEADING ON LISTING, CONTAINS NO STATION INFORMATION (see sample listing NEXT page) | | | | | |
| DESCRIPTION DATA RECORD | | | | | |
| 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 |
| Light Trans. | 36 | 5 | | F5.2 | Light beam attenuation coefficient |
| | TOTAL = | 40 | | | |

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 02, -3 for T & S, -5 for T & O, -6 for S & O, -7 for T,S & 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)

NOTE: A field will be asterisk filled if the value in question exceeds the alocated field length. At this stage of processing this should not occur.

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME

| 14. FIELD NAME | 15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH NUMBER | 16. LENGTH UNITS | 17. ATTRIBUTES | | 18. USE AND MEANING |
|---|---|---|---|---|---|---|
| | | | | | | |

SHIP OC CRUIS 140 STAT: 023 C#:
DATE 83 10 22 TIME: 0736 Z
LAT 40 19.4 LG -68 40.2
MAX. PRS= 98. DO DEPTH= 101 M
AVER 2.0 INST 0038 RATE 31.25HZ
OBS= 49 FMT(F7.1,2F8.4,F5.2,16,F5.2)

| PRES | TEMP | SALT | OXYG | QUAL | EXTC |
|---|---|---|---|---|---|
| 3.0 | 14.3828 | 33.2380 | 5.77 | 0 | 0.23 |
| 4.0 | 14.4048 | 33.2441 | 5.73 | 0 | 0.23 |
| 6.0 | 14.4043 | 33.2444 | 5.81 | 0 | 0.23 |
| 8.0 | 14.3971 | 33.2419 | 5.78 | 0 | 0.23 |
| 10.0 | 14.4021 | 33.2425 | 5.71 | 0 | 0.24 |
| 12.0 | 14.3969 | 33.2404 | 5.73 | 0 | 0.23 |
| 14.0 | 14.3946 | 33.2400 | 5.72 | 0 | 0.23 |
| 16.0 | 14.3950 | 33.2396 | 5.80 | 0 | 0.23 |
| 18.0 | 14.3881 | 33.2374 | 5.86 | 0 | 0.23 |
| 20.0 | 14.3867 | 33.2360 | 5.89 | 0 | 0.23 |
| 22.0 | 14.3880 | 33.2363 | 5.91 | 0 | 0.23 |
| 24.0 | 14.4019 | 33.2415 | 5.90 | 0 | 0.23 |
| 26.0 | 14.3756 | 33.2559 | 5.83 | 0 | 0.23 |
| 28.0 | 14.2719 | 33.3173 | 5.80 | 0 | 0.21 |
| 30.0 | 14.1124 | 33.2945 | 5.64 | 0 | 0.20 |
| 32.0 | 14.1004 | 33.2953 | 5.77 | 0 | 0.20 |
| 34.0 | 14.0904 | 33.2935 | 5.80 | 0 | 0.20 |
| 36.0 | 14.0453 | 33.2885 | 5.80 | 0 | 0.20 |
| 38.0 | 14.1024 | 33.3509 | 5.73 | 0 | 0.19 |
| 40.0 | 13.9846 | 33.3749 | 5.73 | 0 | 0.17 |
| 42.0 | 13.4409 | 33.3409 | 5.71 | 0 | 0.17 |
| 44.0 | 11.7240 | 32.9736 | 5.91 | 0 | 0.16 |
| 46.0 | 11.3350 | 32.9713 | 5.80 | 0 | 0.15 |
| 48.0 | 10.9679 | 32.9529 | 5.89 | 0 | 0.15 |

NOAA FORM 24-13

HANSEN REF. #

829514

MULDARS TRACK #

TT8094

MONITOR: CONTACT

SIMPSON

LOCATION OF F022 SOURCE

ARCHIVES (TT8094)

RECORD ALL ERRORS FOUND

CONSEC(S)

0018, 0028

0019

ERRORS FOUND

DELETE DEPTH TO BOTTOM

CHANGE STATION

TIME TO 017

```
INVENTORY                                   Record found
Record 18635 on screen
167134                  DATA ENTRY INFORMATION SYSTEM                        FJM
                              (DATASET INVENTORY)

DATE OF ENTRY: 06/24/87

       REFERENCE NUMBER: 329513          ACCESSION NUMBER: 8700021
FORMER REFERENCE NUMBER:          FORMER ACCESSION NUMBER:          (RESUB ONLY)
-------------------------------------------------------------------------------
INVENTORY
         MEDIA-IN: 01 - Digital Magnetic Tape            DINDB CODE 09
         EXCHANGE (FORMAT):   E001 - Low Resolution STD
         PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

   * NOTE * If data is F022, create an additional record for C022.

         INSTITUTE (COUNTRY AND INSTITUTE CODES): 31W4
         PLATFORM (COUNTRY AND PLATFORM CODES):   320C
         PLATFORM TYPE:  9 - Ship            DINDB CODE  09

         ORIGINATORS FILE ID:          ORIGINATORS CRUISE ID: TT8093
         CRUISE START DATE: 09/29/81   CRUISE END DATE: 10/01/81    Press PgDn
         PROJECT CODE:                 DATA USE CODE (DUC): 3       to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY


         VOLUME - NUMBER OF STATIONS:      34   NUMBER OF RECORDS:     791

                  If STA/REC counts are not appropriate then enter -

                  NUMBER:                  UNITS:

                  AVERAGE REC SIZE:     120   MBYTES:       0.094920
-------------------------------------------------------------------------------
OCEAN AREA
             CODE 1: 23B     MEANING: NW Atlantic (limit-40 W)
             CODE 2:         MEANING:
             CODE 3:         MEANING:
-------------------------------------------------------------------------------

DINDB TRACK TRANSACTION GENERATED:   /  /




F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI
```

```
INVENTORY                                   Record found
Record 18637 on screen
167136                DATA ENTRY INFORMATION SYSTEM                        FJM
                           (DATASET INVENTORY)

DATE OF ENTRY: 06/24/87

       REFERENCE NUMBER: 329514          ACCESSION NUMBER: 8700021
FORMER REFERENCE NUMBER:          FORMER ACCESSION NUMBER:          (RESUB ONLY)
-------------------------------------------------------------------------------
INVENTORY
         MEDIA-IN: 01 - Digital Magnetic Tape            DINDB CODE 09
         EXCHANGE (FORMAT):   E001 - Low Resolution STD
         PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

   * NOTE * If data is F022, create an additional record for C022.

         INSTITUTE (COUNTRY AND INSTITUTE CODES): 31W4
         PLATFORM (COUNTRY AND PLATFORM CODES):   320C
         PLATFORM TYPE:  9 - Ship            DINDB CODE  09

         ORIGINATORS FILE ID:          ORIGINATORS CRUISE ID: TT8094
         CRUISE START DATE: 07/07/82   CRUISE END DATE: 07/15/82    Press PgDn
         PROJECT CODE:                 DATA USE CODE (DUC): 3       to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY


         VOLUME - NUMBER OF STATIONS:      66   NUMBER OF RECORDS:   1,593

                  If STA/REC counts are not appropriate then enter -

                  NUMBER:                 UNITS:

                  AVERAGE REC SIZE:     120   MBYTES:       0.191160

-------------------------------------------------------------------------------
OCEAN AREA
             CODE 1: 23B      MEANING: NW Atlantic (limit-40 W)
             CODE 2:          MEANING:
             CODE 3:          MEANING:
-------------------------------------------------------------------------------

DINDB TRACK TRANSACTION GENERATED:   /  /




F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI
```

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 8700021 C022 329513 9999 31W4 32OC    1981/09/29 TT8093       166984
 8700021 C022 329514 9999 31W4 32OC    1982/07/07 TT8094       166985
 8700021 F022 TT8093 9999 31W4 32OC    1981/09/29 104          166986
 8700021 F022 TT8094 9999 31W4 32OC    1982/07/07 122          166987

(4 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8700021 C022 329513 32OC 34     39     81/09/29   81/10/01
 8700021 C022 329514 32OC 66     74     82/07/07   82/07/15
 8700021 F022 TT8093 32OC 34     791    81/09/29   81/10/01
 8700021 F022 TT8094 32OC 66     1593   82/07/07   82/07/15

(4 rows affected)
```

NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

# TRANSMITTAL AND RECEIPT RECORD

*(Please sign and return carbon copy acknowledging receipt)*

| TO: | REFER TO |
|---|---|
| National Oceanographic Data Ctr.<br>1825 Connecticut Ave., NW<br>Washington, D.C. 20235 | ATTENTION Dr. Tony Picciolo |

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

XX ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER _____

The enclosed reel of magnetic tape (CTDØ25) contains the CTD/Light trans. data for the following cruises.

Files: 1-66 R/V Oceanus Cr. 122 Jul 7 - 14 1982 66 stations
67-100 " " Cr. 104 Sep 29- Oct. 1, 1981 34 stations

These data were released by Dr. Brad Butman, U.S. Geological Survey - Woods Hole Lab., and are part of the Minerals Management Service funded research in the area of the Lydonia Canyon (New England Continental Margin). These data have been formated to an expanded version of the WHOI/NODC CTD exchange format. The format has been simply expanded by 5 bytes to accommodate the parameter of light transmission.

a..Tape CTDØ25 (9track, 1600 bpi, ASCII, recsize=40, blksize=4000, 100 files)

b..Sample dump of selected stations

c..DDF

#420/12. 11 XX

8700021

A00397

cc: B. Butman, J. Moody

Approx. 9,000 records

| FORWARDED BY (Signature) | TITLE | DATE FORWARDED |
|---|---|---|
| George Heimerdinger | NODC Northeast Service Center Rep. | Dec. 8, 86 |
| **RECEIVED BY (Signature)** | **TITLE** | **DATE RECEIVED** |
| S. Mulcahey | | 12-11-86 |

NOAA FORM 24-5 (8-73)