ACCESSION 8400064

DATA DOCUMENTATION FORM

DAA 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 DONOI | FOR ALL | DATA TRANSHIT | TTALS | - | |
|---|-------------|-------------------------|----------------------|---|------------------|
| 1. NAME AND ADDRESS OF INSTITUTION, LABO | | | H WHICH SUBM | ITTED DATA AF | RE ASSOCIATED |
| WOODS HOLE OCEANOGRAP | HIC INS | TITUTION | , | | |
| | | • | | | |
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| · | | | | | |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURI DATA WERE COLLECTED | NG WHICH | | MBER(S) USED E | Y ORIGINATOR | TO IDENTIFY |
| · - | | | | | |
| | • | † | Y | ا من المنظم المنظم المنظم المنظم المنظ | |
| | | | | | • |
| 4. PLATFORM NAME(S) 5. PLATFORM TY | PE(S) | 6. PLATFORM | AND OPERATOR | 7. DA | TES |
| (E.G., SHIP, BU | OY, ETC.) | NATIONALIT | Y(IES) | | |
| DI. THAMPS INCHINETED SHIP | | PLATFORM | OPERATOR | FROM: MO,DAY,YF | TO: MO DAY AR |
| R/U THOMAS WASHINGTON SAIT | | WASHINGTON | 450 | 06/07/81 | 06/19/8/ |
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| , · · · · · · · · · · · · · · · · · · · | • | | ļ | | |
| 8. ARE DATA PROPRIETARY? | | SE DARKEN AL | | | |
| NO YES | CONT | AINED IN YOUR | SUBMISSION W | ERE COLLECTI | ED. |
| IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE! YEARMONTH | | | GENERAL AR | EA | |
| 9. ARE DATA DECLARED NATIONAL | | | | · · · · · · · · · · · · · · · · · · · | |
| PROGRAM (DNP)? | F | 140° 150° 180° 180° 140 | 0° 120° 100° 60° 60° | | 40° 60° 80° 100° |
| (I.E., SHOULD THEY BE INCLUDED IN WORL DATA CENTERS HOLDINGS FOR INTERNA- | 278 | | | 3 23 kss | |
| TIONAL EXCHANGE?) | 60. | 27/2 | 12 34 73 22 | 21151 | 743 243 600 |
| NO YES PART (SPECIFY BELOW) | 200 | 4 1 | 101 128 | 19 51 67 | 212 207 |
| 7 | 40 170 | 1 7 165 | 1 155 | 12/18/2 | 370 2 171 |
| | " 🔟 🟋 | 124 | 119 114 | 107110 | 1120 |
| | 20. 002 | 1057 052 | 027 | ┡ ╸╄┈╄┈╄┈╄┈╄┈╂ | 1000 200 |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- | | 021 016 | 011 To | 300 335 | 03/ 52/ 0° |
| PHONE NUMBER (AND ADDRESS IF OTHER | 20- 361 | VPM a 1 m | 346 | 336 371 | B67 142 20. |
| THAN IN ITEM-1) | 797 | 120 120 | 352 377 | 372 507 | (10) (3) |
| BOB MILLARD | 40° | 0 26.2 6 459 | 154 8 47 | ╎ ╌╂═╂═╂╼╂═╂═╂═╂╼╂╼╉ | 457 470 |
| | 505 | 500 495 | 459 | 430,515 | 511 506 |
| 617 548 1400 × 2528 | 80° | 530 | 524 | 516/552 | 547 542 50° |
| | | T 577 1 1 1 577 | 1 4 55 | 552587 | 53 7 7 7 7 5 |
| | 100* 120* | 140" 160" 130" 160" 140 | 0° 120° 100° 80° 60° | 40° 20° 0° 20° | 40. 20. 30. 100- |
| NOAA FORM 24-13 | | | | · | |

B. SCIENTIFE 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 2 | Decabars deg. C Parts/thousand Mil/lit. | Neil Brown CTD """" """" | | 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 Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 1982 WHOI Report 82-37 |
| | | | | Ref: CTD Calibration and Data Processing Techniques at WHOI Using the 1978 Practical Salinity Scale. by R.C. Millard, Jr. International STD Conferent and Workshop 8-11 Feb. 198 |
| | | | | |
| | | | | |

NOAA FORM 24-13 .

C. DATA FORMAT

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

| LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE | AL OF YOUR FILE |
|---|--|
| "n" data records (variable length file | e basic sampling information followed by s). The record type is identified by its 7 records are self documenting in that sample file dump in "RECORD FORMAT" |
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| | • |
| L | |
| 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION | |
| file with each station being a separate | sts from one cruise. The tape is multi- e file. The first seven records of each mation for that station. The remaining is 35 char. long. |
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| | and the second |
| | |
| 3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN | ALGOL COBOL LANGUAGE |
| | • |
| 4. RESPONSIBLE COMPUTER SPECIALIST: | |
| WANTE AND FROME NOMBER | ILLARD |
| ADDRESS WOODS HOLE OCEAN | DOGRAPHIC INST. WOODS HOLE, MA |
| , | • |
| COMPLETE THIS SECTION IF DATA ARE ON MAGNE | |
| 5. RECORDING MODE BINARY | 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH |
| | |
| ASCII _ EBCDIC | 10. END OF FILE MARK |
| | OCTAL 17 |
| 6. NUMBER OF TRACKS | - |
| (CHANNELS) SEVEN | |
| NINE | 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS |
| ₩ nine | OF DATA TYPE, VOLUME NUMBER) |
| | TAPE CTD 908 |
| 7. PARITY | CTD DATA NODE/WHOI EXCHANGE FORMAT |
| ODD | 40 STATIONS, 1 FILE PER STATION R/U THOMAS WASHINGTON, JUNE 1981 |
| EVEN | R/U THOMAS WASHING = 36 OLK SIZE - 1500 |
| 8. DENSITY | 9TK, 1600 BPI, RECSIZE = 35, BLK SIZE = 3500 |
| 200 BPI X 1600 BPI | ASCII, MULTI-FILE. |
| 556 BPI | 12. PHYSICAL BLOCK LENGTH IN BYTES |
| | 3500 |
| 800 BPI | 13. LENGTH OF BYTES IN BITS |
| | 1 |

NOAA FORM 24-13

| 4. FIELD NAME | 15. POSITION FROM - 1 MEASURED | j | ЭТН | 17. ATTRIBUTES | 18. USE AND MEANING |
|-----------------|--------------------------------------|----------|------------|----------------|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | · |
| DESCRIPTION 1ST | HEADER REC | ORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | į | BLANK |
| FIELD LABEL | 2 | 5 | | . 5н | ALWAYS "SHIPD" (D = blank) |
| SHIP CODE | 7 | 2 | | A2 | 2 CHAR. SHIP CODE |
| | · | | | | AT = ATLANTIS II, KN = KNORR OC = OCEANUS, ETC. |
| FIELD LABEL | 9 | 7 | | 7H | ALWAYS "KCRUISK" |
| CRUISE NUMBER | 16 | 3 | | 13 | CRUISE NO. |
| FIELD LABEL | 19 | 6 | | 6н | ALWAYS "#STAT:" |
| STATION NUMBER | 25 | 4 | | 14 | STATION NO. |
| BLANK | 29 | 1 | | [· | BLANK |
| FIELD LABEL | 30 | 3 | | 3н | ALWAYS "C#:" |
| CAST NUMBER | 33 | 3 | | 13 | CAST NO. USED FOR YO-YO STATIC |
| | TOTAL = | 35 | | | |
| | WARD BUSINESS | ODD | | | (2) Sielle wicht instifice) |
| DESCRIPTION 2ND | HEADER RE | URD | | | (All fields right justified) |
| BLANK | 1 |] 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | н5 | ALWAYS "DATEN" (V = blank) |
| ATE:YEAR | 7 | 2 | | 12 | YEAR LAST TWO DIGITS |
| • | 9 | 1 | | H1 | ALWAYS "-" FIELD SEPARATER |
| MONTH | 10 | 2 | | 12 | MONTH (1-12) |
| • | 12 | 1 . | | н1 | ALWAYS "-" FIELD SEPARATER |
| DAY | 13 | 2 | , | 12 | DAY (1-31) |
| BLANK | 15 | 2 | | | BLANK |
| FIELD LABEL | 17 | 6 | | н6 | ALWAYS "TIME: "" |
| TIME | 23 | 4 | | 7.4 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 | | н2 | ALWAYS "#Z" SYMBOL FOR |
| \; | | 1 | | i · | GMT OR ZULU TIME |
| BLANK | 29 | 7 | | | BLANK |
| | TOTAL = | 35 | | | |
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| 14 SIELD NAME | FROM-1 MEASURED | } | G TH | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------|---------------------|-----------|-------------|------------------|---------------------------------|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 3RD | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | • | BLANK |
| FIELD LABEL | 2 | 4 | Ì | 4H | ALWAYS "LAT½" (½ = blank) |
| LATITUDE: DEGREES | 6 | 3 | | 13 | DEGREES OF LATITUDE |
| | | | | | NEGATIVE FOR SOUTH |
| LATITUDE: MINUTES | 9 | 6 | | F6.2 | MINUTES OF LATITUDE TO |
| | | | | | HUNDREDTHS OF A MINUTE |
| FIELD LABEL | 15 | 4 | | 4н | ALWAYS "RICR" |
| LONGITUDE: DEGREES | | 4 | | 14 | · · · |
| LONGITUDE DEGREES | 1, 19 | * | | 7.4 | DEGREES OF LONGITUDE |
| T ONG TOOLS ATSTRUCT | 23 | | 1 | 70.0 | NEGATIVE FOR WEST |
| LONGITUDE: MINUTES | 23 | 6 | | F6.2 | MINUTES OF LONGITUDE TO |
| m | | | | · | HUNDREDTHS OF A MINUTE |
| BLANK | . 29 | 7 | l | · · | BLANK |
| | TOTAL = | 35 | | | |
| | 1011111 | | | • | |
| | } |] | Ì | | |
| | | | | | |
| nacottnatou Am | | - COND | | | 422 61 22 4 24 4 4 4 4 4 |
| DESCRIPTION 4T | H HEADER R | ECORD | | | (All fields right justified) |
| BLANK | 1 | lı | | | BLANK |
| FIELD LABEL | 2 | 9 | | | ALWAYS "MAX. &PRES=" (&=blank) |
| MPRESSURE | 11 | 6 | | F6.0 | MAXIMUM PRESSURE REACHED BY |
| | | | | | THE CTD CAST, PRESSURE IN |
| | <u>,</u> | |] | · | DECIBARS |
| FIELD LABEL | 17 | 11 | ļ | 11H | i i |
| ·- | | | | | ALWAYS "KDBKKDEPTH=" |
| DEPTH TO BOTTOM | 28 | 6 | | F6.0 | WATER DEPTH IN METERS . |
| DEPTH LABEL | 34 | 2 | | 2Н | ALWAYS "比M" M = Meters |
| | TOTAL = | 35 | | | |
| | | | | , | |
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| | | | • | | |
| DESCRIPTION 5TH | HEADER RE | CORD | | | (All fields right justified) |
| | | | ļ | • | (actus rayine justified) |
| BLANK | 1 | 1 | | • | BLANK |
| FIELD LABEL | , 2 | 5 | | 5н | ALWAYS "AVERØ" (Ø = blank) |
| AVERAGING INTERVA | 7 | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON |
| | | | , | | REPORTING INTERVAL, IN DECIBAR |
| FIELD LABEL | 12 | 6 | | 6н | ALWAYS "BINSTB" |
| INSTRUMENT NO. | 18 | 4 | | 14 | CTD INSTRUMENT NO. |
| FIELD LABEL | 22 | 6 | | 6н | ALWAYS "BRATEB" |
| SAMPLING RATE | 28 | 6 | | , 1 | SAMPLING RATE IN HERTZ |
| | | | | | (SAMPLES/SECOND), TO HUNDREDTHE |
| UNITS LABEL | 34 | 2 | | | ALWAYS "HZ" |
| | | | j i | · | |
| | TOTAL = | 35 | | | |
| | | | | יים אורוורים דיי | S AN UP TRACE / PROFILE |
| A NEGATIVE | VALUE | ולנים טאן | > 1-12 | 1.000,000 | |
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| NOAA FORM 24-13 | <u> </u> | | لـــــــا | | |
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| 4. FIELD NAME | 15. POSITION FROM-1 MEASURED | 16. LEN | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|-----------------------|------------------------------------|---------|---------------|-----------------|------------------------------------|
| | (e.g., bits, bytes) | NUMBER | טאודs | | |
| DESCRIPTION 6TH | HEADER RE | CORD | | | |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 4 | | Н4 | ALWAYS "OBS=" |
| TOTAL DATA CYCLES | . 6 | 6 | | 16 | TOTAL NUMBER OF DATA CYCLES |
| | | | | · · | THIS STATION |
| FIELD LABEL | 12 | 4 | | н4 | ALWAYS "FMT" MEANING FORMAT |
| FORTRAN FORMAT | 16 | 20 | | н20 | ALWAYS "(F7.1,2F8.4,F6.2,I6)' |
| ONLIGHT LOIGHT | 20 | 20 | | 1120 | ALIWAIS (17.1,210.4,10.2,10) |
| | TOTAL = | 35 | | i | |
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| 1 | |] | ' | | , |
| DESCRIPTION 7TH | HEADER RE | CORD | | | |
| | | | <u> </u> | · | |
| IF TAPE IS DUMPED | , THIS REC | DRD PR | DVIDES | COLUMN HEADIN | G ON LISTING, CONTAINS NO |
| STATION INFORMATI | on (see | SAMP | le li | sting NEXT P | age) |
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| DESCRIPTION DAT | A RECORD |] | Ì | | |
| | | _ | İ | _ | |
| PRESSURE | 1 | 7 | 1 . | F7.1 | PRESSURE AS DECIBARS |
| ERATURE | 8 | 8 | | F8.4 | TEMPERATURE AS DEGREES C |
| SALINITY | 16 | 8 | | F8.4 | SALINITY AS PARTS/THOUSAND |
| OXYGEN | 24 | 6 | ŀ | F6.2 | OXYGEN AS ML/L |
| QUALITY WORD | 30 | 6 | | 16 | QUALITY CONTROL CODE SEE |
| ~ | | | | | FOLLOWING TEXT |
| Quality word defi | ned: If n | psitiv | e. the | quality word | contains the number of observation |
| from the time-ser | ies data t | hat we | nt int | n the pressure | bin. Negative quality words |
| denote data which | has been | intern | hlated | The value of | f the negative number reflects |
| which variable or | variables | have | been m | bdified based | on the variable location in the |
| Company data file | variables -1 for | m -2 | for C | 1 for 02 | on the variable location in the |
| CID GREEN UNICA TITLE | · -I IOI | r, -2 | LOI S, | -4 IOI U2, -3 | for T & S, -5 for T & O, -6 for |
| s a U, =/ IOI I,s | a U. A p | bsitiv | e quar | ity word can b | e used to infer time and lowerin |
| rate: lowering r | are = samp | re rat | e * pr | essure interva | 1/quality # |
| time = sta | rt time(nr | :min) · | + samp | le rate * summ | ed quality (secs) |
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| NOTE: A field w | ill he ast | erisk : | الموالة | if the value | n question exceeds the |
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| alocated | Tera Teug | n. | AC CIT | re erede of bro | cessing this should not |
| occur. | | |] | | |
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| TIELD NAME | 15. POSITION 16. LEN FROM-1 MEASURED | істн . | 17. ATTRIBUTES | 18. USE AND MEANING | |
|--|--|----------------|--------------------------------|---------------------|--|
| | (o.g., bits, bytes) | צדואט | | | |
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| | SHIP KN CR | | | 1 C\$: 3 | |
| C | DATE 77- 6 LAT 36 2 | .− 2 •00 L: | TIME: 1200 7 G -37 53.20 | | |
| | MAX. PRS= | | | 5968. M | |
| | | INST FMT(| 4 RATE F7.1,2F8.4,! | 31.00HZ F6.2.I6) | Ó |
| \.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\. | | EMP | SALT 0X1 36.1420 6.5 | YG QUAL | |
| | 9.0 19. | | 36.1421 5.3 | | , , |
| : | 11.0 19. 13.0 19. | | 36,1425 5.3 36,1426 5.3 | | |
| 3 | 15.0 17. | | | 28 69 | |
| - | 17.0 19. 19.0 19. | | 36.1429 5.2 36.1420 5.2 | | ·-} |
| O + | 21.0 19. | | 36.1410 5.2 | | } |
| | 23.0 19. 25.0 19. | | 36.1421 - 5.2 36.1458 - 5.3 | | |
| | 27.0 19. | 2378 | 36.1431 5. | 30 49 | |
| | | | 36.1439 5.3 36.1461 5.3 | | |
| 0 | 33.0 19. | | 36.1484 5.3 | 32 88 | |
| | 35.0 19. 37.0 19. | 1152 | 36.1576 5.3 | | |
| | 39.0 18. 41.0 18. | | 36.1682 5.3 36.1837 5.3 | | |
| ^ | 43.0 18. | | | | |
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| NOAA FORM 24-13 | | | | | |

| WOA | FORM 24-5 |
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| (8-73 |) |

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

| TRANSMITTAL AND (Please sign and return carbon | D RECEIPT RECORD n copy acknowledging receipt) |
|---|---|
| O: National Oceanographic Data Center | REFER TO |
| 3300 Whitehaven St., NW Washington, D.C. 20235 | ATTENTION Dr. Tony Picciolo |
| THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY | |
| ORDINARY REGISTERED AIR CERTINAL MAIL MAIL | FIED GOVERNMENT BY HAND OTHER TRUCK |
| The following CTD data are forwarde R/V Thomas Washington June 7 a) Magnetic tape CTDØØ8 b) Data Documentation Form c) Sample dump of first and las d) NAPIS Form | |

84NODE 692

FORWARDED BY (Signature)
George Heimerdinger

ill T

NODC Liaison Officer

Mar. 27, 84

Lamar Bennett

TITLE Technician, E/OC13 Apr. 02, 84

NOAA FORM 24-5 (8-73)

ACCESSION/TRACK # 8400064/17 16 15

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|-----------------|--|---------------------------------------|---|---|---|--|
| Completion Date | /Init. | Tape # or DSN | # of Files | BLKSIZE | LRECL | # RECORDS |
| 1/30/87 | STAR | CTD\$68 | 40 | 3500 | 35. | |
| 4/30/87 | SER | WB1354 | 40 | 3500 | 35 | · |
| | | | • | ^ | | |
| 07/16/84 | CMH | | | | • | 19306 |
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| 07/16/84 | const | | | | | 19306 |
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| 07/16/84 | CUH | | | | | 19306 |
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| 07/17/84 | cust | | | | | 19306 |
| | 8/30/87 4/30/87 07/16/84 07/16/84 | 4/30/84 CMH 07/16/84 CMH 07/16/84 CMH | Ompletion Date/Init. or DSN 1/30/84 STED CTD\$68 1/30/84 STED W\$1354 07/16/84 CMH 07/16/84 CMH 07/16/84 CMH | ## STOP STOP Files A 30 87 STOP WE 354 40 40 4 30 87 CURT CTD 68 40 40 40 40 40 40 40 4 | Completion Date/Init. or DSN Files BLKSIZE #/30/87 PBD CTD#88 40 3500 #/30/87 PBD W6/354 40 3500 07/16/84 CUIH 67/16/84 CUIH 07/16/84 CUIH | Completion Date/Init. or DSN Files BLKSIZE LRECL #\30/84 & \overline{Files} 40 \ 3500 \ 35 #\30/84 & \overline{Files} 40 \ 3500 \ 35 07/16/84 CMH 07/16/84 CMH 07/16/84 CMH 07/16/84 CMH |

(DNODC*MPD15. TT1615/FO22

(Rev. 11/80)

F°SION/TRACK NO.: 84.00064/TT1815

| . 710117 1111 | ion no y | .0000 | 111010 | | • | | |
|----------------------|----------------|-----------|------------|---------|---------------------------|----------|-----------|
| PE OF | TAPE NUMBER | LABEL | LRECL | BLKSIZE | RECFM | REMARKS | # RECORDS |
| IGINATOR | CTD Ø Ø 8 | NL | 35 | 3500 | 9-ti 1600 BPI ASCII | 40 file | |
| UPLICATE | WØ1357 | <i>5L</i> | 35 | 3500 | 9-tc 1600 BPI FSCII | 40 files | • |
| FORMATTED | | | | | | | |
| FIRST 'ISER | | | | | - | | |
| FINAL | | | | . • | | | |
| SK FILE | ', DSN | | | | | REMARKS | # RECORDS |
| WORK DISK FILE | \ | | | | | | • |
| FILE | DNOI | *MPD1 | 5, TT1615, | FOZZ | | | 19306 |

| | 1029 |
|------------------------------------|------------------------------|
| 1) File Type: | 022 |
| 2) Project Ident.: | |
| 3) Work Nos.: | TT1615 |
| • | , • |
| . Error Corrections as reported to | Principal Investigator: |
| · | |
| Error | Correction Completed (Check) |
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| | ions necessary |
| 7100 | |
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| | |
| TT Additional error corrections: | |
| II. Additional error corrections: | Correction Completed (Check) |

11. Processor Name: Cliff Hartley

ACCESSION/TRACK # 8400064/11/16/15

| Step | Completion Date | e/Init. | Tape # or DSN | # of Files | BLKSIZE | LRECL | # RECORDS |
|-----------------------|-----------------|---------|------------------|---------------|---------|-------|-----------|
| MIGINATOR TAPE | 1/30/87 | STAR | CTD\$68 | 40 | 3500 | 35. | |
| UADI/SCAN TAPE | 4/30/84 | PBP | WØ1354 | 40 | 3500 | 35 | |
| ASSIGNED FOR PROCESS. | | | | | | | · |
| Tayer to diok | 07/16/84 | cut | | | | + | 19306 |
| QUALITY REVIEW | | | • | | | | |
| PRELIMINARY DATA-SORT | | ; | | | | | |
| PRELIMINARY MULCHEK | 07/16/84 | Cuis | | | | | 19306 |
| FIRST USER TAPE | | | | · · · | | | ٠ |
| WORK DISK FILE | 07/16/84 | Cont | | | | | 19,306 |
| FINAL USER TAPE | | | | | | | |
| INAL MULCHEK | 07/16/84 | CMH | | | | | 19,306 |
| TED DISK FILE | | | | | | | |
| DATA SET "FINALIZED" | 07/17/84 | Cuit | · | | | | 19,306 |

DNODC*MPD75.TT1615/F022

| 1) | File Type: 02 | 2 |
|------------------|--------------------------|--------------------------------|
| 2) | Project Ident.: | |
| I. Error Correct | ions as reported to Prin | cipal Investigator: |
| Error | • | · Correction Completed (Check) |
| | no conecti | ons necessary |
| II. Additional | error corrections: | |
| Error | | Correction Completed (Cheek |

11. Processor Hame: Cliff Hartley

DATE:

(MRL) 11/6/78 (Rev. 11/80)

CFSSION/TRACK NO.: 84.00064/TT1615

| 1 | | .00064/ | 1 1 1613 | · · · · · · · · · · · · · · · · · · · | | | |
|--------------------------------|----------------|---------|----------|---------------------------------------|---------------------------|----------|-----------|
| PE OF | TAPE NUMBER | LABEL | LRECL | BLKSIZE | RECFM | REMARKS | # RECORDS |
| RIGINATOR | CTD Ø Ø 8 | NL | 35 | 3500 | 9-ti 1600 BPI ASCII | 40 file | |
| DUPLICATE | WØ1357 | SL. | 35 | 3500 | 9-ti 1600 BRI ASCII | 40 feles | |
| EFORMATTED | | | | | | | |
| FIRST 'JSER | | | | | | | |
| FINAL USER | | | | | | | |
| SK FILE | \ DSN | | | | | REMARKS | # RECORDS |
| WORK DISK FILE | | | | | | | |
| Final DITED DISK FILE | DN - | ODC*MP. | 015.TT | 1615/FO2 | 2 | | 19,306 |

| DATE: | |
|---|--|
| 70: OC17 | |
| FROM: 0C13 | |
| DBJECT: Error Correction in Proces | ssing of Data Set - Accession 11840064 |
| | |
| | |
| 1) File Type: | F022 |
| 2) Project Ident .: | |
| | TT1616 |
| , 2, 2, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | |
| T. Farry Company ions or reported | to Principal Investigators |
| I. Error Corrections as reported | |
| Error | Correction Completed (Check) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| II. Additional error corrections | • • • • • • • • • • • • • • • • • • • |
| Error | Correction Completed (Check) |
| | |
| \sim | |
| No errors | |
| | |
| . | |
| Mari | 10/- |
| il. Processor Name: | Mauro |
| · / | • |

(MRL) 11/6/78
(Rev. 11/80)

| l | ACK NO.: 840 | 50064/TI | 7616 | | | | |
|-----------------------|----------------|----------|--------|---------|---------------------------|----------|-----------|
| PE OF | TAPE NUMBER | LABEL | LRECL | BLKSIZE | RECFM | REMARKS | # RECORDS |
| RIGINATOR | CTDØ99 | NL | 35 | 3500 | 9-tr 1600 BPI ASCII | 22 files | |
| DUPLICATE | WØ133Ø | SL. | 35 | 3570 | 9-tr 1600BPI ASCII | 22 file | |
| EFORMATTED | WO1135 | SDFF | 5CII | DNOJC# | FNW HOI | - 3 | //903 |
| FIRST 'JSER | | | | | | | |
| FINAL USER | | | | | | | |
| ISK FILE | \ DSN | | | | | REMARKS | # RECORDS |
| WORK DISK FILE | DNOD | CXM | PARYIT | 71616A | 16022 | | 11903 |
| OITED DISK FILE | | | | | | | |

| | · | ··· | | | | | |
|-----------------------|-----------------|---------|------------------|---------------|-----------|--------|-----------|
| <u>Step</u> | Completion Date | e/Init. | Tape # or DSN | # of Files | BLKSIZE | LRECL | # RECORDS |
| RIGINATOR TAPE | 4/30/84 | STEED | CTDØØ9 | 22 | 3500 | 35 | į |
| QUADI/SCAN TAPE | 1/30/84 | (B) | WØ 1330 | 22 | 3500 | 35 | |
| ASSIGNED FOR PROCESS. | | · | | • | | | |
| DDF EVALUATION | 1/24/84 | ma | | · | | - | • |
| QUALITY REVIEW | 764/84 | | • | | | | • |
| PRELIMINARY DATA-SORT | | | | | | | |
| PRELIMINARY MULCHEK | 7/26/84 | | DNOJCX | Mary! | TT 1618 | 4022 | 1903 |
| FIRST USER TAPE | | | | · | | | |
| YORK DISK FILE | 7/2484 | | DNODCX | ME | RY1. 17/2 | 16/022 | 1194 3 |
| FINAL USER TAPE | | | | | 7 | | |
| FINAL MULCHEK | 7/27/84 | 1 | DNODEX | mary! | V11616 | 1622 | 11903 |
| ED DISK FILE | 7 7 | | | | 1 | | |
| DATA SET "FINALIZED" | | | : | | | | |

ACCESSION NUMBER

8400064

DATA DOCUMENTATION FORM

NOAA FORM 24-13 (4-77)

U.S. DEPARTMENT OF COMMERCE NAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION WASHINGTON, DC 20295 NATIONAL

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 I | FOR ALL I | DATA TRANSMIT | TALS | | |
|--|---|--------------------------------|-------------------------------------|--------------------|--|
| 1. NAME AND ADDRESS OF INSTITUTION, LABOR | - | | | ITTED DATA AF | RE ASSOCIATED |
| WOODS HOLE OCEANOGRA | | NSTITUTION | , | | |
| WOODS HOLE, MA 0254 | 3 | | | | |
| | | | | | |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED | WHICH | | IBER(S) USED E IS SHIPMENT | Y ORIGINATOR | TO IDENTIFY |
| RAMA EXPEDITION | | Thomas to | IASHING. | | |
| | | | | | · |
| 4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO | | 6. PLATFORM A | | 7. DA | TES |
| | | PLATFORM | OPERATOR | FROM: MODAY,YR | TO: MO/DAY/YR |
| THOMAS WASHINGTON SHIP | | | | may 13,81 | may 28,81 |
| | | | | | |
| 8. ARE DATA PROPRIETARY? | | SE DARKEN ALL AINED IN YOUR | | | |
| MNO □YES | CONT | AINED IN TOOK | SUBMISSION WI | ERE COLLECT | -5. |
| IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE! YEARMONTH | | | GENERAL AR | EA | |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? | 100° 120° | 140° 150° 180° 160° 140' | , 150. 100. 8 0. 8 0. | 40" 20" 0" 20" | ID" 80" 80" 100" |
| (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- | | | | | |
| TIONAL EXCHANGE?) | 50* | 237 | 211 - 525 3 122 | 211/252 | 243 60° |
| NO YES PART (SPECIFY BELOW) | 170 | 165 160 | 191 186 | 145 180 | 212 207 276 2 9 171 |
| · | 134 | 124 | 119 114 | | 140 135 |
| 10, PERSON TO WHOM INQUIRIES CONCERNING | 20. 063 | 057 052 021 016 | 011 | 037 072 | 032 Co |
| DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER | 0° 32° 73° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20 | 320 315 √ 356 351 | 310 305 346 341 | 300333 | 331 326 B67 362 |
| THAN IN ITEM-1) | | 992 387 428 423 | 382 377 418 ./ 913 | 372 507 403 443 | 439 434 40° |
| | 40° 459 | 0 464 459 | 454 | 8/4/079 | 457 470 |
| MR BOB MILLARD | 505 | 500 495 | 490 96 485 | | 511 506 60° |
| 617 548 1400 | 541 | 576 567 | 526 521 562 557 | 516 551 | 583 578 |
| | 100° 120° | 140° 160° 180° 160° 140 | | 40° 20° 0° 20° | 40° 60° 80° 100° |
| 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 |
|---|---|--|--|--|
| Pressure Temperature Salinity O ₂ | Decabars deg. C Parts/thousand Mil/lit. | Neil Brown CTD """ """ """ | | 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 |
| | • | | | Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 1982 WHOI Report 82-37 |
| | | | | 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 |
| | | | | CTD TRANSECT of the KUROSHIO EXTENSION 27° - 42°N, 152°E MAY 1581 NILER + WHITMAN, OREGON STATE UNIV. DATA REPORT 94 |
| | | | | REF. 82-7 JUNE 1993 |
| | , | | | |

C. DATA FORMAT

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

| 1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE | L OF YOUR FILE |
|---|---|
| "n" data records (variable length files | e basic sampling information followed by s). The record type is identified by its 7 records are self documenting in that ample file dump in "RECORD FORMAT" |
| | |
| , | |
| | |
| | |
| 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION | |
| file with each station being a separate file contains the basic sampling inform records are data records. Each record | ts from one cruise. The tape is multi- file. The first seven records of each ation for that station. The remaining is 35 char. long. |
| | |
| | |
| | |
| 3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN | ALGOL COBOL LANGUAGE |
| 4. RESPONSIBLE COMPUTER SPECIALIST: | mulaan an cup uum |
| | MILLARD 617 548 1400 RAPHIC INSTITUTION |
| ADDRESS WOODS HOLE OFFICE | , |
| COMPLETE THIS SECTION IF DATA ARE ON MAGNET | |
| S. RECORDING MODE BCD BINARY | 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH |
| ASCII EBCDIC | |
| Z 23011 | 10. END OF FILE MARK |
| 6. NUMBER OF TRACKS | |
| (CHANNELS) SEVEN | MA DARKE ON DARKE AREA DESCRIPTION (INCLUDE |
| MINE NINE | 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS |
| | OF DATA TYPE, VOLUME NUMBER) CTDØ69 |
| 7. PARITY | CTD DATA, THOMAS WASHINGTON, MAY 1981. |
| <u></u> | I STATION YER PICE, TIN |
| L EVEN | ILMORPT . RECSIZE = 35, BUXSIZE 3500, MSCII |
| 8. DENSITY | NON LABELLED - HEIMERDINGER - |
| 556 BPI | 12. PHYSICAL BLOCK LENGTH IN BYTES |
| 800 BP1 | 3500 13. LENGTH OF BYTES IN BITS |
| | - CENOTH OF BITES IN DITE |

NOAA FORM 24-13

| FIELD NAME | 15. POSITION FROM - 1 MEASURED | ļ | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|-------------------------|--------------------------------------|--------|-------|---|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 1ST | HEADER REC | ORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | • | 5н | ALWAYS "SHIPW" (W = blank) |
| SHIP CODE | 7 | 2 | | A2 | 2 CHAR. SHIP CODE |
| | | | | | AT = ATLANTIS II, KN = KNORR |
| | | | | | OC = OCEANUS, ETC. |
| FIELD LABEL | 9 | 7 | | 7H | ALWAYS "BCRUISB" |
| CRUISE NUMBER | 16 | 3 | | 13 | CRUISE NO. |
| FIELD LABEL | 19 | 6 | | 6н | ALWAYS "ØSTAT:" |
| STATION NUMBER BLANK | 25 | 4 | | 14 | STATION NO. |
| FIELD LABEL | 29 30 | 3 | | 3н | BLANK ALWAYS "C#:" |
| CAST NUMBER | 33 | 3 | | 13 | CAST NO. USED FOR YO-YO STATIO |
| CILCI MONDEM | | | | | Cast No. Obbs for to to similar |
| | TOTAL = | 35 | | ļ | |
| : | | | | , | |
| | | | | | |
| DESCRIPTION 2ND | HEADER REC | ORD | | | (All fields right justified) |
| | | _ | | | |
| BLANK FIELD LABEL | 1 2 | 1 5 | | н5 | BLANK ALWAYS "DATED" (D = blank) |
| DATE:YEAR | 7 | 2 | | 12 | YEAR LAST TWO DIGITS |
| Jane - Bank | 9 | 1 | | H1 . | ALWAYS "-" FIELD SEPARATER |
| MONTH | 10 | 2 | | 12 | MONTH (1-12) |
| | 12 | 1 . | ; | н1 | ALWAYS "-" FIELD SEPARATER |
| DAY | 13 | 2 | | 12 | DAY (1-31) |
| BLANK | 15 | 2 | | | BLANK |
| FIELD LABEL | 17 | 6 | | н6 | ALWAYS "TIME:"⊌" |
| TIME | 23 | 4 | | 14 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 . | | н2 | ALWAYS "½Z" SYMBOL FOR GMT OR ZULU TIME |
| BLANK | 29 | 7 | | | BLANK |
| | TOTAL = | 35 | | | |
| | | | | | |
| | • | : [| | | |
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| 14 ELD NAME | 15. POSITION FROM - 1 MEASURED | 16. LEN | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|--------------------------------------|---------|-------|----------------|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 3RD | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | , | BLANK |
| FIELD LABEL | 2 | 4 | | 4H | ALWAYS "LATD" (D = blank) |
| LATITUDE: DEGREES | 6 | 3 | | 13 | DEGREES OF LATITUDE |
| | | | | | NEGATIVE FOR SOUTH |
| LATITUDE: MINUTES | 9 | 6 | | F6.2 | MINUTES OF LATITUDE TO |
| FIELD LABEL | 15 | 4 | | 4н | HUNDREDTHS OF A MINUTE ALWAYS "比LGW" |
| LONGITUDE: DEGREES | | 4 | | 14 | DEGREES OF LONGITUDE |
| California de la constanta de | ` 19 | -4 | | | NEGATIVE FOR WEST |
| LONGITUDE: MINUTES | 23 | 6 | | F6.2 | MINUTES OF LONGITUDE TO |
| | • | | | - | HUNDREDTHS OF A MINUTE |
| BLANK | 29 | 7 | | | BLANK |
| · . | TOTAL = | 35 | | | |
| | | | | · | |
| | | | | | · |
| DESCRIPTION 4T | HEADER R | ECORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 9 | | | ALWAYS "MAX. PRES=" (= blank) |
| PRESSURE | 11 | 6 | | F6.0 | MAXIMUM PRESSURE REACHED BY |
| | | , | | | THE CTD CAST, PRESSURE IN |
| | | | | | DECIBARS |
| FIELD LABEL | 17 | 11 | ٠ | 11H | ALWAYS "WDBWWDEPTH=" |
| DEPTH TO BOTTOM DEPTH LABEL | 28 34 | 6 | | F6.0 2H | WATER DEPTH IN METERS ALWAYS "½M" M = Meters |
| DEFIII LADED | | _ | | ZH . | ALWAIS OF M - Meters |
| | TOTAL = | 35 | | | |
| · | | | | | • |
| | | | | | · · |
| DESCRIPTION 5TH | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | 1 ' | 1 | | , | BLANK |
| FIELD LABEL | 2 | 5 | | 5н | ALWAYS "AVERW" (% = blank) |
| AVERAGING INTERVA | * 7 | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON |
| | | | | | REPORTING INTERVAL, IN DECIBAR |
| FIELD LABEL | 12 | 6 | | 6н | always "Minst", |
| INSTRUMENT NO. | 18 | 4 | | 14 | CTD INSTRUMENT NO. |
| FIELD LABEL | 22 | 6 | | 6H | ALWAYS "BRATEB" |
| SAMPLING RATE | 28 | 6 | | F6.2 | SAMPLING RATE IN HERTZ (SAMPLES/SECOND), TO HUNDREDTH |
| UNITS LABEL | 34 | 2 | | | ALWAYS "HZ" |
| | TOTAL = | 35 | | | |
| | | | | | S AN UP TRACE / PROFILE |
| A NEGATIVE | NATHE | IN TH | S FIL | ED INDIENTE | - · · · · · · · · · · · · · · · · · · · |
| | | , | | | |
| NOAA FORM 24-13 | <u> </u> | L | L | <u></u> | <u> </u> |

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED | | ЭТН | 17. ATTRIBUTES | 18. USE AND MEANING |
|------------------------|--------------------------------------|------------|---------|----------------------------------|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 6TH | HEADER RE | CORD | | | |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 4 | | H4 | ALWAYS "OBS=" |
| TOTAL DATA CYCLES | В | 0 | | 16 | TOTAL NUMBER OF DATA CYCLES THIS STATION |
| FIELD LABEL | 12 | 4 | | н4 . | ALWAYS "ÞFMT" MEANING FORMAT |
| FORTRAN FORMAT | 16 | 20 | | н20 | ALWAYS "(F7.1,2F8.4,F6.2,I6)" |
| | TOTAL = | 35 | | | |
| | • | | | · | |
| | | | | • | · |
| DESCRIPTION 7TH | HEADER RE | CORD | | | · |
| | | | | | G ON LISTING, CONTAINS NO |
| STATION INFORMATI | on (see | SAMP | le // | sling NEXT P | age) |
| | | | | 1 | |
| | | | | | |
| DESCRIPTION DAT | A RECORD | | | | ` |
| PRESSURE | 1 | 7 | | E7.1 | PRESSURE AS DECIBARS |
| PERATURE | 8 | 8 | | F8.4 | TEMPERATURE AS DECIDARS |
| SALINITY | 16 | 8 | | F8.4 | SALINITY AS PARTS/THOUSAND |
| OXYGEN QUALITY WORD | 24 30 | 6 | | F6.2 I6 | OXYGEN AS ML/L QUALITY CONTROL CODE SEE |
| QUALITI WORD | 30 | " | | 10 | FOLLOWING TEXT |
| | | | | | contains the number of observation |
| | | | | | bin. Negative quality words f the negative number reflects |
| | | | | | on the variable location in the |
| | | | | | for T & S, -5 for T & O, -6 for |
| | | | | ity word can b essure interva | e used to infer time and lowering |
| | | | | | ed quality (secs) |
| | | | | | |
| | · | | | | |
| Mogra. A at -3-3 | ግግ ኤ' | ٠ | | 2. F. 11. 3 | a continue de la |
| | _ | _ | | | n question exceeds the ocessing this should not |
| occur. | field leng | 11. | | - 20050 OI pr | Second outs sustanted |
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| - | | | | | |
| NOAA FORM 24-13 | | <u> </u> | <u></u> | | |

| ELD NAME | 15. POSITION FROM - 1 MEASURED | | GTH | 17. ATTRIBUTES | 18. USE AND MEANING | |
|----------|--------------------------------------|------------------|--------------|--|---------------------|---------------|
| | (e.g., bits, bytes) | NUMBER | UNITS | | | |
| | | | | | | |
| | SHIP I DATE : LAT : | 77- 6 | | TIME: 1200 7 | | |
| | MAX. i | PRS= - | 4157. | DB DEPTH= | 5968. M | |
| | >AVER OBS≈ | 2076 | | 4 RATE F7.1,2F8.4,F | | |
| 0 | 9.0 | 0 19.1 0 19.1 | 2472 | 36.1420 6.5 36.1421 5.2 | 27 75 | |
| 0 | 13.6 15.6 | 3 19. | 2472 2477 | 36.1425 5.3 36.1426 5.3 36.1431 5.2 36.1429 5.2 | 34 131 28 69 | |
| 0 | 19.0 21.0 | 0 19.5 | 2482 2466 | 36.1429 5.2 36.1420 5.3 36.1410 5.2 36.1421 5.2 | 32 11.9 29 65 | |
| 6 | 25.0 27.0 | 0 19. | 2393 2378 | 36.1438 5.3 36.1431 5.3 36.1439 5.3 | 30 97 30 49 | 00 |
| | 31.0 33.0 35.0 | 0 19.0 0 19.0 | 2343 2074 | 36.1461 5.3 36.1484 5.3 | 33 111 | |
| 0 1 | 37.6 39.6 | 0 19. | 1152 9882 | 36.1576 5.3 36.1682 5.3 36.1837 5.3 | 37 135 38 70 * | |
| | | | | 36,2002 5,5 | | |
| | | | | | | enga r |
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| | | | | | : | |
| | | | | | • 10 C | Section 5. |
| | | | | | | |
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| | | | | | | |

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

| To: National Oceanographic Data Center 3300 Whitehaven St., NW | REFER TO | | | | | |
|--|-------------------------------------|--|--|--|--|--|
| Washington, D.C. 20235 | ATTENTION Tony Picciolo | | | | | |
| THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY | | | | | | |
| ORDINARY REGISTERED AIR CERTI | FIED GOVERNMENT BY HAND OTHER TRUCK | | | | | |

The following CTD data set is forwarded to NODC for processing:

R/V Thomas Washington May 13 - 28, 1981 22 stations

- a) Magnetic tape CTDØØ9
- b) Data Documentation Form
- c) Sample dump of first and last station
- d) NAPIS Form

These data were received from the Woods Hole Oceanographic Inst.

84 NOD & 693

George Heimereinger

RECEIVED BY (Signatura)

Lamar Bennett

NODC Liaison Officer

TITLE
Technician, E/0C13

Mar. 27, 84

Apr. 02, 84

NONCOLL ACCESSION NUMBER 8400064

ACCESSION

DATA DOCUMENTATION FORM

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

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A. ORIGINATOR IDENTIFICATION

| THIS SECTION MUST BE COMP | LETED BY DONOR | FOR ALL I | DATA TRANSMIT | TALS | - | |
|--|---|-----------|------------------------------------|-------------------------------|----------------------------|-----------------------------|
| 1. NAME AND ADDRESS OF IN | STITUTION, LABOR | ATORY, O | R ACTIVITY WIT | H WHICH SUBM | ITTED DATA AF | RE ASSOCIATED |
| WOODS HOLE OC | EANOGRAPH | ic ins | TITUTION | | | |
| · | | | | | | |
| • | • | | - '· : | | | |
| 1 | | | | | • | |
| 2. EXPEDITION, PROJECT, O DATA WERE COLLECTED | R PROGRAM DURING | WHICH | | IBER(S) USED E IS SHIPMENT | Y ORIGINATOR | TO IDENTIFY |
| _ | | | | | | |
| | | | 1 | . 1 | | |
| T · · | • | | Ì | | | |
| 1 | | | i | | | |
| 4. PLATFORM NAME(S) | 5. PLATFORM TYPI (E.G., SHIP, BUO | | 6. PLATFORM A NATIONALIT | Y(IES) | | TES |
| | SHIP | | PLATFORM | | FROM: MO,DAY,YR | |
| R/U THOMAS WASHINGTON | 5//// | | WASHINGTON | 4515 | 06/07/81 | 06/19/8/ |
| · | | | | | | |
| 1 | • • | | | | | |
| 8. ARE DATA PROPRIETARY | ? | | SE DARKEN ALI | | | |
| NO YES | | CONT | AINED IN YOUR | SUBMISSION WI | ERE COLLECTE | ED. |
| MO LITES | • | | | | • | |
| IF YES, WHEN CAN THE FOR GENERAL USE? | | | | GENERAL AR | EA | |
| 9. ARE DATA DECLARED NATE PROGRAM (DNP)? | TIONAL | 100* 120* | 140° 150° 180° 160° 140° | · 120° :00° 80° 60° | 40° 20° 0° 20° 6 | (D. 80. 80. 100. |
| (I.E., SHOULD THEY BE IN | CLUDED IN WORLD | 278 | Pr-273 268 | 1 (200) 47 D | \$\frac{253958}{253958} | 284 A hold 279 |
| DATA CENTERS HOLDINGS TIONAL EXCHANGE?) | FOR INTERNA- | | 1,1 1,2 | | \$217.52 | |
| TIONAL EXCHANGE! | | 60° | | | | 500 |
| NO YES PART | (SPECIFY BELOW) | 206 | 4 2017 | 193 186 | 18 21 2 | 217 207 |
| 1 | • | 40° 170 | 129 124 | 155 5150 | | 120 135 46 |
| | | 20. 098 | 093 088 | 073 | 073 IC8 | 104 |
| 10. PERSON TO WHOM INQUIRE | ES CONCERNING | | 057 052 | 047 042 | | BCS 1 (CON) |
| DATA SHOULD BE ADDRES | SED WITH TELE- | 0. | 320 315 | 310 \$ 305 | 300 335 | 631 326 |
| PHONE NUMBER (AND ADD THAN IN ITEM-1) | RESS IF OTHER | 20° 301 | 350 351 387 | 346 341 382 377 | 372 407 | 867 362 403 393 |
| | | 40° 433 | 022 423 | 418 . 913 | 408 443 | 439 434 40* |
| BOB MILLARD | | 469 | 464 459 | 454 8 449 | ┟╸╽╸╽╸╽╺┞╼╏╼╏═╏ | 457 470 |
| 617 548 1400 X | (2528 | 60° 505 | 500 495 | 490 435 | 480 515 | 511 506 60* |
| | ~ | 54) | 536 | 526 5521 | 516551 | 547 |
| 1 | | 577, 120° | 572 567 140- 160- 180- 160- 140 | 562 557 | | 583 578 40° 60° 80° 100° |
| | | 100 120" | 140 160 180 160 140 | 120 100 60 50 | | 4 an an, 100. |

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 | Decabars deg. C Parts/thousand Mil/lit. | Neil Brown CTD """" """" """" | | 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 |
| | | • | | Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 1982 WHOI Report 82-37 |
| | | | | Ref: CTD Calibration and Data Processing Techniques at WHOI Using the 1978 Practical Salinity Scale. by R.C. Fillard, Jr. International STD Conference and Workshop 8-11 Feb. 1982 |
| | | | | |
| | | | | |

C. DATA FORMAT

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

| 1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE | L OF YOUR FILE |
|--|--|
| "n" data records (variable length files | e basic sampling information followed by s). The record type is identified by its 7 records are self documenting in that sample file dump in "RECORD FORMAT" |
| | |
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| | |
| | • |
| 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION | |
| life with each station being a separate | sts from one cruise. The tape is multi- e file. The first seven records of each mation for that station. The remaining is 35 char. long. |
| | |
| | |
| 3. ATTRIBUTES AS EXPRESSED IN PL-1 | ALGOL COBOL LANGUAGE |
| NAME AND PHONE NUMBER BOB M | ILLARD |
| ADDRESS WOODS HOLE OCEAN | OGRAPAIC INST. WOODS HOLE, MA |
| | |
| COMPLETE THIS SECTION IF DATA ARE ON MAGNET | FIC TAPE 19. LENGTH OF INTER- |
| 5. RECORDING MODE BCD BINARY | RECORD GAP (IF KNOWN) 3/4 INCH |
| ASCII EBCDIC | L |
| | 10. END OF FILE MARK |
| | . COCTAL 17 |
| 6. NUMBER OF TRACKS (CHANNELS) SEVEN | |
| NINE | 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) |
| <u> </u> | CTD DATA NODC/WHOI EXCHANGE FORMAT |
| 7. PARITY CODD | 40 STATIONS, 1 FILE PER STATION R/U THOMAS WASHINGTON, JUNE 1981 |
| EVEN | RIU THOMAS WASHINGTON, JUNE 1981 |
| B. DENSITY | 9TK, 1600 8PI, RECSIZE = 33, BLX 3128, 3300 |
| 200 BPI X 1600 BPI | ASCII, MULTI-FILE. |
| ☐ 556 BPI | 12. PHYSICAL BLOCK LENGTH IN BYTES 3500 |
| 800 BPI | 13. LENGTH OF BYTES IN BITS |
| | |

| FIELD NAME | 15. POSITION FROM - 1 MEASURED | | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|-----------------|--------------------------------------|--------|------------|----------------|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 1ST | HEADER REC | ORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | 5н | ALWAYS "SHIP\$" (\$\beta = blank) |
| SHIP CODE | 7 | 2 | | A2 | 2 CHAR. SHIP CODE |
| | · | | | | AT = ATLANTIS II, KN = KNORR OC = OCEANUS, ETC. |
| FIELD LABEL | 9 | 7 | | 7н | ALWAYS "bCRUISb" |
| CRUISE NUMBER | 16 | 3 | | 13 | CRUISE NO. |
| FIELD LABEL | 19 | 6 | | 6н | ALWAYS "BSTAT:" |
| STATION NUMBER | 25 | 4 | | 14 | STATION NO. |
| BLANK | 29 | 1 | | | BLANK |
| FIELD LABEL | 30 | 3 | | 3н | ALWAYS "C#:" |
| CAST NUMBER | 33 | 3 | | 13 | CAST NO. USED FOR YO-YO STATIONS |
| : | TOTAL = | 35 | | | |
| DESCRIPTION 2ND | HEADER REC | ORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 5 | | н5 | ALWAYS "DATED" (D = blank) |
| DATE:YEAR | 7 | 2 | | 12 | YEAR LAST TWO DIGITS |
| | 9 | 1 | | H1 | ALWAYS "-" FIELD SEPARATER |
| MONTH | 10 | 2 | | 12 | MONTH (1-12) |
| | 12 | 1 . | | H1 | ALWAYS "-" FIELD SEPARATER |
| DAY | 13 | 2 | · | 12 | DAY (1-31) |
| BLANK | 15 | 2 | | | BLANK |
| FIELD LABEL | 17 | 6 | | Н6 | ALWAYS "TIME: " |
| TIME | 23 | 4 | | 14 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 | | H2 | ALWAYS "½Z" SYMBOL FOR |
| | | İ | | | GMT OR ZULU TIME |
| BLANK | 29 | 7 | | | BLANK |
| | TOTAL = | 35 | | | |
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| | 15. POSITION FROM - 1 MEASURED | } | | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------|--------------------------------------|--------|-------|----------------|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | |
| DESCRIPTION 3RD | HEADER RE | CORD | | | (All fields right justified) |
| BLANK_ | 1 | 1 | | , | BLANK |
| FIELD LABEL | 2 | 4 | | 4H | ALWAYS "LATID" (D = blank) |
| LATITUDE: DEGREES | 6 | 3 | | 13 | 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 | | 14 | 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 | | | • |
| DESCRIPTION 4T | H HEADER R | ECORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL PRESSURE | 2 11 | 9 6 | | F6.0 | ALWAYS "MAX. PRES=" (P=blank MAXIMUM PRESSURE REACHED BY THE CTD CAST, PRESSURE IN DECIBARS |
| FIELD LABEL | 17 | 11 | | 11н | ALWAYS "KOBKKDEPTH=" |
| DEPTH TO BOTTOM | 28 | 6 | - | F6.0 | WATER DEPTH IN METERS |
| DEPTH LABEL | 34 | 2 | | 2Н | ALWAYS "比M" M = Meters |
| | TOTAL = | 35 | | | |
| DESCRIPTION 5TH | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | | | | • . | |
| FIELD LABEL | 1 2 | 1 5 | | 5н | BLANK ALWAYS "AVERV" (V = blank) |
| AVERAGING INTERVA | ~ | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON REPORTING INTERVAL, IN DECIBA |
| FIELD LABEL | 12 | 6 | | 6н | ALWAYS "BINSTB" |
| INSTRUMENT NO. | 18 | 4 | | 14 | CTD INSTRUMENT NO. |
| FIELD LABEL | 22 | 6 | | 6н | ALWAYS "BRATEB" |
| SAMPLING RATE | 28 | 6 | | F6.2 | SAMPLING RATE IN HERTZ |
| UNITS LABEL | 34 | 2 | | | (SAMPLES/SECOND), TO HUNDREDT |
| · | TOTAL = | 35 | | | |
| NEGATIVE | VALUE | 143 TH | s Ell | LD INDICATE | S AN UP TRACE / PROFILE |

| 14. FIELD NAME | 15. POSITION FROM - 1 | 16. LEN | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|-------------------|--------------------------|--|---------------|----------------|------------------------------------|
| | MEASURED IN | | | , | |
| | (e.g., bits, bytes) | NUMBER | UNITS | <u>.</u> | |
| DESCRIPTION 6TH | HEADER RE | CORD | | | |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 4 | | Н4 | ALWAYS "OBS=" |
| TOTAL DATA CYCLES | 6 | 6 | | 16 | TOTAL NUMBER OF DATA CYCLES |
| | | | | | THIS STATION |
| FIELD LABEL | 12 | 4 | | H4 . | ALWAYS "ØFMT" MEANING FORMAT |
| FORTRAN FORMAT | 16 | 20 | | Н20 | ALWAYS "(F7.1,2F8.4,F6.2,I6)" |
| | TOTAL = | 35 | | | |
| | · | | | | |
| DESCRIPTION TORE | HEADED DE | nonn | | | |
| DESCRIPTION 7TH | | | } | | |
| IF TAPE IS DUMPED | , THIS REC | DRD PR | DVIDES | COLUMN HEADIN | G ON LISTING, CONTAINS NO |
| STATION INFORMATI | on (see | SAMP | le]/ | sting NEXT P | age) |
| | İ | | | _ | |
| | · | | | | · |
| | | 1 | | | |
| DESCRIPTION DAT | A RECORD | | | | ` |
| PRESSURE | 1 1 | 7 | | E7.1 | PRESSURE AS DECIBARS |
| PERATURE | 8 | 8 | | F8.4 | TEMPERATURE AS DEGREES C |
| SALINITY | 16 | 8 | | F8.4 | SALINITY AS PARTS/THOUSAND |
| OXYGEN | 24 | 6 | 1 | F6.2 | OXYGEN AS ML/L |
| QUALITY WORD | 30 | 6 | | · 16 | QUALITY CONTROL CODE SEE |
| | | | | | FOLLOWING TEXT |
| Quality word defi | hed: If p | ositiv | e, the | quality word | contains the number of observation |
| from the time-ser | ies data t | hat we | ht int | o the pressure | bin. Negative quality words |
| denote data which | has been | interp | blated | . The value o | f the negative number reflects |
| which variable or | variables | have | been m | odified, based | on the variable location in the |
| CTD | : -1 for | г, -2 | for S, | -4 for 02, -3 | for T & S, -5 for T & O, -6 for |
| S & O, -/ for T,S | & O. A p | ositiv | e qual | ity word can b | e used to infer time and lowering |
| rate: lowering r | rt time/br | re rat | e opr | essure interva | 1/quality # |
| cime - sca | rc crue(iir | : III) | r samp | re rate * summ | ed quality (secs) |
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| NOTE: A field w | ill be aste | erisk i | illed | if the value | n question exceeds the |
| | field leng | h. | At th | is stage of pr | pcessing this should not |
| occur. | | | İ | | |
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| FIELD NAME | 15. POSITION FROM - 1 MEASURED IN | ì | GTH | 17. ATTRIBUT | ES 1 | 8. USE AND | MEANING | | |
|---|--|--------|-------------|------------------------|------|------------|---------------------------------------|-----------|---------------|
| | (e.g., bits, bytes) | NUMBER | UNITS | | | | | | |
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| | SHIP I | (N DRI | LL | 66 STAT: | 21 | C\$: 3 | · · · · · · · · · · · · · · · · · · · | 1 | |
| _ | DATE : | | | TIME: 120 | | | | | |
| | LAT | 38 2 | .00 L | G -37 53 | .20 | | | | |
| | MAX. I | | | | | 968. M | | ì | |
| . | ⇒AVER | | INST | 4 RAT | | 1.00HZ | |) | |
| Vanitir : | | | | F7.1,2F8. | | QUAL | | | |
| · •• | PRES | | EMP Dagi | SALT 36.1420 | - | | • | { | |
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| · · · · · · · · · · · · · · · · · · · | 13. | 0 19. | | | 5.34 | | | | |
| | 15.0 | 0 19. | 2477 | 36.1431 | 5.28 | 69 | | 1 | |
| Sec. 9 | | | | | 5.28 | | ** ; | } | |
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| | 33. | 0 19. | 2074 | 36.1484 | 5.32 | 88 | | | |
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| \circ | | | | | 5.37 | | | | |
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| TO: | OC12 | | | |
|-------------|---------------|-------------------|----------------|------------------------------|
| FROH | :0013 | | | |
| D IN | ECT: Error Co | orrection in Proc | essing of Data | Set - Accession 840006.1 |
| | | | | |
| | | | | |
| | 1) | File Type: | C022 | |
| | 2) | Project Ident. | | |
| | 3) | Ref. Wos.: | 319388 | •• |
| | | • | | |
| ı. | Error Correct | ions as reported | to Principal | Investigator: |
| • | Error | | | Correction Completed (Check) |
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| 1 | I. Additional | error correction | ıs: | |
| | Error | • | | Correction Completed (Check) |
| | ; •——— | • | | • |
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Processor Name:

DATE:

| | | | | · | | | |
|-----------------------|-----------------|-------------|------------------|---------------|-----------------|-------------|-----------|
| <u>Step</u> | Completion Date | e/Init. | Tape # or DSN | # of Files | BLKSIZE | LRECL | # RECORDS |
| RIGINATOR TAPE | 1/30/84 | STERE | CTD\$68 | 40 | 3500 | 35 | |
| UADI/SCAN TAPE | A/30/88 | SBR | WØ1357 | 40 | 3500 | 35 | |
| SSIGNED FOR PROCESS. | | · | | | | | |
| ODF EVALUATION | | | | | | - | |
| QUALITY REVIEW | | | • | | | | |
| PRELIMINARY DATA-SORT | | : | | | | | |
| PRELIMINARY MULCHEK | | | | | | | |
| FIRST USER TAPE | | • | | · | | | |
| WORK DISK FILE | · | | | | | | |
| FINAL USER TAPE | | | | | | | |
| FINAL MULCHEK | | <u>.</u> | | | | | |
| ED DISK FILE | | | | | 10 - 44 - 5 - 3 | | |
| DATA SET "FINALIZED" | | | | | | | |
| | | | | | | | |

(MRL) 11/6/78 (Rev. 11/80)

| FSION/TRA | ACK NO.: 84 | 00064/3 | 18388 | | | | |
|-----------------------|-----------------|-----------|-------|---------|-----------------------------|----------|-----------|
| IPE OF | TAPE NUMBER | LABEL | LRECL | BLKSIZE | RECFM | REMARKS | # RECORDS |
| RIGINATOR | CTD \$ 48 | NL | 35 | 3500 | 9-ti 1600 BPI ASCII | 40 file | |
| DUPLICATE | W q 1357 | <i>SL</i> | 35 | 3500 | 9-tr 1600 BPI FISC II | 40 files | • |
| EFORMATTED | | | | | | | |
| FIRST 'JSER | | | | | | | |
| FINAL USER | | | | | | | • |
| SK FILE | \ DSN | | | | | REMARKS | # RECORDS |
| WORK DISK FILE | | | | | | | |
| OITED DISK FILE | ~~ | | | | | | |

TITLE NODC Liaison Officer

TITLE
Technician, E/0C13

DATE FORWARDED Mar. 27, 84

DATE RECEIVED Apr. 02, 84

NOAA FORM 24-5 (8-73)

George Heimerdi

Lamar Bennett

NANSEN REF. #

3/9388

MULDARS TRACK #

TT/615

MONITOR: CONTACT

Gerald W. Damon

LOCATION OF FO22 SOURCE

Archives (TT/6/5

RECORD ALL ERRORS FOUND

CONSEC(S)

9

ERRORS FOUND

Last depth: delete depth to bottom-C/02120/1 to C/___/

19306 19306

ACCESSION

DATA DOCUMENTATION FORM

Ref #319389

AA 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 I | | | | | |
| 1. NAME AND ADDRESS OF INSTITUTION, LABOR | = | | | ITTED DATA AF | REASSOCIATED |
| WOODS HOLE OCEANOGRA | | NS11/4/16^ | | | i |
| WOODS HOLE, MA 0254 | 3 | | | | 1 |
| | | · • • | | | |
| · | | | | • | |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED | WHICH | | BER(S) USED E | Y ORIGINATOR | TO IDENTIFY |
| RAMA EXPEDITION | | THOMAS - | JASHTN G | | |
| | | | · | | ÷ |
| 4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO | | 6.PLATFORM A NATIONALIT | <u>: </u> | <u>L</u> | |
| | | PLATFORM | OPERATOR | FROM: MODAY/YR | |
| THOMAS WASHINGTON SHIP | ! | • | } | may 13,81 | MAY 28,81 |
| | | | : | | · |
| 8. ARE DATA PROPRIETARY? | | | | UARES IN WHICE | |
| ØHO □YES | CONT | AINED IN TOOK | SUBMISSION TO | ERE COLLECT | |
| IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH | | | GENERAL AR | EA | |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? | 100* 120* 1 | 40° 150° 180° 150° 140 |)* 120* 100* 80* 80* | 40* 20* 9* 20* 4 | 10° 80° 80° 100° |
| (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) | 213 - 68 | 237 258 | 21 - 2 72 | \$ 23224 \$211252 P | 250 |
| NO YES PART (SPECIFY BELOW) | 200 | 7017 - 4736 | 191 135 | 15/192 | 212 207 80° |
| | 20. 033 | 124 | 110 114 | 1072 108 | 120 135 40 |
| 10, PERSON TO WHOM INQUIRIES CONCERNING | | 057 052 021 016 | 017 047 | (037/072 101/036 | 965 (0) |
| DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER | | 315 D56 331 | 310 305 326 351 | 386371 | (3) 32e 367 362 20° |
| THAN IN ITEM-1) | 20' 337 | 25 387 | 392 377 | 312 507 | 40 N 393 |
| | 40. 469 | 0-54 5 459 | 454 8 47 | 4r.; 4rg | 457 470 40* |
| MR. BOB MILLARD | 505 | 500 493 | 35 | ╎ ┍ ┤╸ ┤╶ ╏ ╶╏ | 511 506 60* |
| 617 548 1400 | 577 | 536 531 | 526 552 562 553 | 516/551 | 583 1578 |
| | 160* 120° | 140° 160° 180° 160° 140 |), 150, 160, 80, 80, | 40^ 20" 0" 20" | 10. ED. RO. 100. |

B. SCIENTI 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 ₂ | Decabars deg. C Parts/thousand Mil/lit. | Neil Brown CTD " " " " " " | | Ref: WHOI/Brown CTD microprofiler: methods of calibration and data handling. By N.P. Fofonof S.P. Hays, and R.C. Millar | |
| | | | | Jr., Dec. 1974. WHOI Report 74-89 | |
| | | | | Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 198 WHOI Report 82-37 | |
| | | | | Ref: CTD Calibration and Data Processing Technique at WHOI Using the 1978 Practical Salinity Scale. by R.C. Fillard, Jr. International STD Conference and Workshop 8-11 Feb. 198 | |
| | | | | CTD TRANSECT OF The KUROSHIO EXTEUSION | |
| | | | | 27° - 42°N, 152°E MAY 158 NILER + WHITMAN, OREGON STATE UNIV. DATA REPORT SY | |
| • | | | | REF. 82-7 JUNE 1993 | |
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| | , | ·. | | | |

C. DATA FORMAT

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

| LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE | L OF YOUR FILE |
|--|--|
| n data records (variable length files | e basic sampling information followed by s). The record type is identified by its 7 records are self documenting in that ample file dump in "RECORD FORMAT |
| | |
| | |
| | |
| 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION | |
| TOTAL DESCRIPTION OF THE ORGANIZATION | |
| file contains the basic sampling inform records are data records. Each record | e file. The first seven records of each nation for that station. The remaining is 35 char. long. |
| | |
| | |
| | |
| ATTRIBUTES AS EXPRESSED IN PL-1 | ALGOL COBOL |
| FORTRAN | LANGUAGE |
| | |
| RESPONSIBLE COMPUTER SPECIALIST: | |
| | MILLARD 617 548 1400 |
| | RAPHIC HISTITUTU INSTITUTION |
| | • |
| COMPLETE THIS SECTION IF DATA ARE ON MAGNET | |
| 5. RECORDING MODE BCD BINARY | 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH |
| ASCII EBCDIC | |
| MASCII PERCEIC | 10. END OF FILE MARK |
| | OCTAL 17 |
| 6. NUMBER OF TRACKS (CHANNELS) SEVEN | |
| | 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE |
| MINE | ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) |
| | CTDØØ9 |
| 7. PARITY ODD | CTD DATA, THOMAS WASHINGTON, MAY 1981. 22 STATIONS, I STATION PER FILE, 9TE |
| EVEN | 1600 BPI, RECSIZE = 35, BLKSIZE 3500, ASCII |
| B. DENSITY | NON LABELLED - HEIMERDINGER - |
| 200 BPI 1600 BPI | NON CADECIAL. |
| 556 BPI | 12. PHYSICAL BLOCK LENGTH IN BYTES |
| 800 BPI | 3500 |
| :1 ann Be1 | 13. LENGTH OF BYTES IN BITS |
| | 1 |

NOAA FORM 24-13

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED | | GTH | 17. AT | TRIBUT | ES | 18. USE AND MEANING |
|-----------------------------------|--------------------------------------|-------------|-------|--------|------------------|-----|--|
| | (e.g., bits, bytes) | NUMBER | UNITS | | | | |
| DESCRIPTION 1ST | HEADER REC | ORD | | | | | (All fields right justified) |
| BLANK FIELD LABEL SHIP CODE | 1 2 7 | 1 5 2 | | | 5н А 2 | | BLANK ALWAYS "SHIPØ" (Ø = blank) 2 CHAR. SHIP CODE |
| | | | | | • | | AT = ATLANTIS II, KN = KNORR OC = OCEANUS, ETC. |
| FIELD LABEL CRUISE NUMBER | 9 16 | 7 | | · | 7H 13 | | ALWAYS "比CRUIS比" CRUISE NO. |
| FIELD LABEL | 19 | 6 | | | 6н | - 1 | ALWAYS "ESTAT:" |
| STATION NUMBER | 25 | 4 | | | 14 | | STATION NO. |
| BLANK | 29 | 1 3 | | | 211 | l | BLANK |
| FIELD LABEL CAST NUMBER | 30 33 | 3 | | | 3H I3 | 1 | ALWAYS "C#:" CAST NO. USED FOR YO-YO STATION |
| | TOTAL = | 35 | | | | | |
| : | | | | | | : | |
| DESCRIPTION 2ND | HEADER REC | CORD | · | | | | (All fields right justified) |
| BLANK | 1 | 1 | | | | - 1 | BLANK |
| FIELD LABEL | 2 | 5 | | | н5 | I | ALWAYS "DATE" (|
| ATE: YEAR | 7 9 | 2 1 | | | 12 H1 | } | YEAR LAST TWO DIGITS ALWAYS "-" FIELD SEPARATER |
| MONTH | 10 | 2 | | | 12 | | MONTH (1-12) |
| | 12 | 1 . | | | H1 | | ALWAYS "-" FIELD SEPARATER |
| DAY | 13 | 2 2 | | | 12 | | DAY (1-31) |
| BLANK FIELD LABEL | 15 17 | 6 | | | н6 | 1 | BLANK ALWAYS "TIME:" |
| TIME | 23 | 4 | | | 1.4 | 1 | TIME GMT 24 HR. CLOCK |
| TIME LABEL | 27 | 2 | | | н2 | | ALWAYS "½Z" SYMBOL FOR GMT OR ZULU TIME |
| BLANK | 29 | 7 | | | | ĺ | BLANK |
| | TOTAL = | 35 | | | | | |
| | | | | · | • | | |
| ; ; | ; | | | | | l | |
| | | } | | | | | |
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| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED | 1 | GTH | 17. ATTRIBUTES | 18. USE AND MEANING |
|--------------------|--------------------------------------|------------|----------|----------------|---|
| | IN | NUMBER | UNITS | · | |
| DESCRIPTION 3RD | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | , | BLANK |
| FIELD LABEL | 2 | 4 | | 4H | ALWAYS "LATW" (W = blank) |
| LATITUDE: DEGREES | 6 | 3 | | 13 | 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 "WLGW" |
| LONGITUDE: DEGREES | . 19 | 4 | | 14 | DEGREES OF LONGITUDE |
| ٠, | | | | , | NEGATIVE FOR WEST |
| LONGITUDE: MINUTES | 23 | 6 | | F6.2 | MINUTES OF LONGITUDE TO |
| | · | | | | HUNDREDTHS OF A MINUTE |
| BLANK | 29 | 7 | i | ł | BLANK |
| | TOTAL = | 25 | | | |
| · | TOTAL = | 35 | | , | |
| | | | | | . } |
| | · | | | · • | |
| DESCRIPTION 4T | ם משטעמט ה | ECOBD | | | (All fields might instiffed) |
| DESCRIPTION 41 | · NEADER R | ECORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | | BLANK |
| FIELD LABEL | 2 | 9 | | | ALWAYS "MAX. PRES=" (b=blank) |
| MPRESSURE | 11 | 6 | | F6.0 | MAXIMUM PRESSURE REACHED BY |
| | | 1 | | | THE CTD CAST, PRESSURE IN |
| | | | | | DECIBARS |
| FIELD LABEL | 17 | 11 | | 11H | ALWAYS "KDBKKDEPTH=" |
| DEPTH TO BOTTOM | 28 | 6 | | F6.0 | WATER DEPTH IN METERS |
| DEPTH LABEL | 34 | 2 | | 2н | ALWAYS "MM" M = Meters |
| | TOTAL = | 35 | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | |
| | | | | | |
| | · | | | | |
| DESCRIPTION 5TH | HEADER RE | CORD | | | (All fields right justified) |
| BLANK | 1 | 1 | | • | BLANK |
| FIELD LABEL | 2 | 5 | | 5н | ALWAYS "AVERY" (1 = blank) |
| AVERAGING INTERVA | ا ما | 5 | | F5.1 | ALL DATA REDUCED TO A COMMON |
| | | | | | REPORTING INTERVAL, IN DECIBARS |
| FIELD LABEL | 12 | 6 | | 6н | ALWAYS "KINSTK" |
| INSTRUMENT NO. | 18 | 4 | | 14 | CTD INSTRUMENT NO. |
| FIELD LABEL | - 22 | 6. | | 6н | ALWAYS "BRATEB" |
| SAMPLING RATE | 28 | 6 | | F6.2 | SAMPLING RATE IN HERTZ |
| | | | | | (SAMPLES/SECOND), TO HUNDREDTHS |
| UNITS LABEL | 34 | 2 | | | ALWAYS "HZ" |
| | TOTAL = | 35 | | · | |
| Ì | 201410 - | | | | l e e e e e e e e e e e e e e e e e e e |
| | | ا ير | | LD INDICATE | S AN UP TRACE / PROFILE |
| * NEGATIVE | NALUE | ויזי ז טון | > F-18 | -LU , | T 1 |
| | | | | | 1 |
| · | | | | | |
| NOAA FORM 24-13 | I | L | <u> </u> | | |

NOAA FORM 24-13

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED | | GТH | 17. ATTRIBUTES | 18. USE AND MEANING |
|---|--------------------------------------|--------------------------|----------------------------|---|---|
| | (e.g., bits, bytes) | NUMBER | UNITS | | · |
| DESCRIPTION 6TH | HEADER RE | CORD | | | |
| BLANK FIELD LABEL TOTAL DATA CYCLES | 1 2 6 | 1 4 6 | | H4 16 | BLANK ALWAYS "OBS=" TOTAL NUMBER OF DATA CYCLES |
| FIELD LABEL FORTRAN FORMAT | 12 16 | 4 20 | | н4 | THIS STATION ALWAYS "&FMT" MEANING FORMAT |
| PORTRAIN PORTAI | TOTAL = | - | | H20 | ALWAYS "(F7.1,2F8.4,F6.2,I6)" |
| DECARTORION Provi | WEIDEN DE | | | | |
| DESCRIPTION 7TH IF TAPE IS DUMPED STATION INFORMATI | , THIS REC | ORD PR | OVIDES | COLUMN HEADIN STING WEST P | G ON LISTING, CONTAINS NO |
| | | | | 3 11-7 | 3-7 |
| DESCRIPTION DAT | A RECORD | | | | , |
| PRESSURE PERATURE SALINITY OXYGEN | 1 8 16 24 | 7 8 8 | · | F7.1 F8.4 F8.4 F6.2 | PRESSURE AS DECIBARS TEMPERATURE AS DEGREES C SALINITY AS PARTS/THOUSAND |
| QUALITY WORD | 30 | 6 | | 16 | OXYGEN AS ML/L QUALITY CONTROL CODE SEE FOLLOWING TEXT |
| from the time-ser denote data which which variable or | ies data t has been variables | hat we interp have | nt int olated been m | o the pressure . The value o odified, based | contains the number of observation bin. Negative quality words f the negative number reflects on the variable location in the |
| CTD如 知道 data file S & O, =7 for T,S | : -1 for & O. Ap | ľ, -2 ositiv | for S, e qual | -4 for $02, -3$ | for T & S, -5 for T & O, -6 for e used to infer time and lowering |
| time = sta | rt time(hr | :min) | - samp | le rate * summ | ed quality (secs) |
| | | | illed | if the value | n question exceeds the |
| alocated occur. | field leng | th. | AT Th | is stage of pro | ocessing this should not |
| · | | | | | |
| | | | | | |
| | | | | · | |

RECORD FORMAT DESCRIPTION RECORD NAME 15. POSITION 16. LENGTH IELD NAME 17. ATTRIBUTES 18. USE AND MEANING FROM-1 MEASURED IN NUMBER UNITS (e.g., bits, bytes) SHIP KN CRUIS 66 STAT: 21 C%: DATE 77- 6- 2 TIME: 1200 Z 2.00 LG -37 53.20 LAT 38 MAX. PRS= 4157. DB DEPTH= 5968. M 4 RATE SAVER 2.0 INST 31.00HZ OBS= 2076 FMT(F7.1,2F8.4,F6.2,I6) PRES TEMP SALT DXY6 RUAL 7.0 19.2491 36.1420 6,56 583 5.27 9.0 19.2472 36.1421 75 11.0 19.2472 36.1425 5.30 ... 76 131 5.34 13.0 19.2472 36.1426 5.28 . 69 15.0 19.2477 35.1431 5.28 ...70 17.0 19.2484 36.1429 19.0 19.2482 36.1420 5.32 11.9 5.29 21.0 19.2456 36.1410 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 5.31 35.0 19.1652 36.1553 - 63 -37.0 19.1152 36.1576 5.37 135 39.0 18.9882 34.1682 5.38 70 41.0 18.8389 36.1837 5.38 55 43.0 18.5625 36.2002 5.50 167

NOAA FORM 24-13

| TO: OCIZ | |
|---|--|
| FROM: <i>OC 1 3</i> | |
| UBJECT: Error Correction in Processing of Dal | la Set - Accession <u>8400064</u> |
| · · · · · · · · · · · · · · · · · · · | |
| | 1 . |
| 1) File Type: <u>6022</u> | |
| 2) Project Ident.: | |
| 3) Ref Nos.: 3/9389 | , •• |
| | • . |
| 1. Error Corrections as reported to Principal | Investigator: |
| Error | Correction Completed (Check) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| II. Additional error corrections: | |
| Error | Correction Completed (Check) |
| | |
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| | |
| Processor Hame: | and the second distribution of the second se |

DATE:

| | | | | | | | |
|-----------------------|-----------------|---------|------------------|---------------|---------|-------|----------|
| Step | Completion Date | e/Init. | Tape # or DSN | # of Files | BLKSIZE | LRECL | # RECORL |
| GRIGINATOR TAPE | A/30/84 | SAR | CTDØØ9 | 22 | 3500 | 35. | |
| QUADI/SCAN TAPE | 4/30/87 | (B) | Wd1336 | 22 | 3500 | 35 | |
| ASSIGNED FOR PROCESS. | | | | | | | |
| DOF EVALUATION | | | | | | - | |
| QUALITY REVIEW | | | | | | | |
| PRELIMINĀRY DATA-SORT | | : | | | | | |
| PRELIMINARY MULCHEK | | | | | | | |
| FIRST USER TAPE | | • | | | | , | |
| WORK DISK FILE | | | | | | | |
| FINAL USER TAPE # 7 | | | | | | | |
| FINAL MULCHEK | | · | | | | | |
| ED DISK FILE | | | | | | | |
| DATA SET "FINALIZED" | | | : | | | | |

(MRL) 11/6/78 (Rev. 11/80)

F°SION/TRACK NO.: 8400064 /#319389 PE OF TAPE TAPE NUMBER LABEL LRECL BLKSIZE **RECFM** REMARKS # RECORDS 9-tr 22 files iginator CTD\$99 NL 35 1600 BPI 3500 ASCII 9-tr SL 1600 BPI SUPLICATE W \$ 1336 35 3500 22 file ASC II EFORMATTED Ar. FIRST 'JSER FINAL SER SK FILE \ DSN REMARKS # RECORDS WORK DISK FILE DITED DISK

FILE

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

| TO: | National Oceanographic Data Center 3300 Whitehaven St., NW | REFER TO | | | | | |
|-----|--|-------------------------|--|--|--|--|--|
| | Washington, D.C. 20235 | ATTENTION Tony Picciolo | | | | | |
| THE | ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY | | | | | | |
| (3 | MORDINARY REGISTERED AIR CER | | | | | | |

The following CTD data set is forwarded to NODC for processing:

R/V Thomas Washington

May 13 - 28, 1981

22 stations

- a) Magnetic tape CTDØØ9
- b) Data Documentation Form
- c) Sample dump of first and last station
- d) NAPIS Form

These data were received from the Woods Hole Oceanographic Inst.

84 NODE 693

| • | | |
|--|----------------------|-------------|
| George Heimerdinger | NODC Liaison Officer | Mar. 27, 84 |
| RECEIVED BY (Signatura) Lamar Bennett | Technician, E/OC13 | Apr. 02, 84 |

Password:

| accNo | fleA | refNo | proj | inst | ship | startDate | cruise | catId |
|---------|------|--------|------|------|------|------------|--------|--------|
| | | | | | | | | |
| 8400064 | F022 | TT1615 | 9999 | 3102 | 31WT | 1981/06/07 | NULL | 148587 |
| 8400064 | C022 | 319388 | 9999 | 3102 | 31WT | 1981/06/07 | TT1615 | 148588 |
| 8400064 | F022 | TT1616 | 9999 | 3102 | 31WT | 1981/05/13 | NULL | 148589 |
| 8400064 | C022 | 319389 | 9999 | 3102 | 31WT | 1981/05/13 | TT1616 | 148590 |

(4 rows affected)

Password:

| fleA | refNo | ship | staCnt | recCnt | startDate | endDate |
|------|----------------------|---|--|--|---|--|
| | | | | | | |
| F022 | TT1615 | 31WT | 40 | | | 81/06/19 |
| C022 | 319388 | 31WT | 40 | 110 | 81/06/07 | 81/06/19 |
| F022 | TT1616 | 31WT | 22 | | | 81/05/28 |
| C022 | 319389 | 31WT | 22 | 62 | 81/05/13 | 81/05/28 |
| | F022 C022 F022 | F022 TT1615 C022 319388 F022 TT1616 | F022 TT1615 31WT C022 319388 31WT F022 TT1616 31WT | fleA refNo ship staCnt F022 TT1615 31WT 40 C022 319388 31WT 40 F022 TT1616 31WT 22 C022 319389 31WT 22 | F022 TT1615 31WT 40 19306 C022 319388 31WT 40 110 F022 TT1616 31WT 22 11903 | C022 319388 31WT 40 110 81/06/07 F022 TT1616 31WT 22 11903 81/05/13 |

(4 rows affected)