

DDF A:2:25

ACCESSION  
NUMBER

8100586

ORIG TRAC<sup>W</sup><sub>A</sub> 2074

## DATA DOCUMENTATION FORM

TR7431-7433

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

RCVD D7513

2/19/81

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                                                                                                                                                                       |                                                 |                                                                                                         |               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES.BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                                       |                                                 |                                                                                                         |               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                                        |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                                |               |
|                                                                                                                                                                                                                                                                            |                                                 | RT08                                                                                                    |               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                                        | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                            | 7. DATES      |
| R/V REDOUBT                                                                                                                                                                                                                                                                | SHIP                                            | USA                                                                                                     | USA           |
|                                                                                                                                                                                                                                                                            |                                                 | PLATFORM                                                                                                | OPERATOR      |
|                                                                                                                                                                                                                                                                            |                                                 | USA                                                                                                     | USA           |
|                                                                                                                                                                                                                                                                            |                                                 | FROM: MO/DAY/YR                                                                                         | TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                            |                                                 | 06/10/80                                                                                                | 06/20/80      |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED<br>FOR GENERAL USE? YEAR MONTH                                                                                                        |                                                 | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA<br>CONTAINED IN YOUR SUBMISSION WERE COLLECTED. |               |
| 9. ARE DATA DECLARED NATIONAL<br>PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD<br>DATA CENTERS HOLDINGS FOR INTERNA-<br>TIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                            |               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING<br>DATA SHOULD BE ADDRESSED WITH TELE-<br>PHONE NUMBER (AND ADDRESS IF OTHER<br>THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                 |                                                                                                         |               |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

### 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5. RECORDING MODE</b><br><input type="checkbox"/> BCD <input type="checkbox"/> BINARY<br><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC<br><input type="checkbox"/> _____      |  | <b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH<br><input checked="" type="checkbox"/> .5 - .6 inch                                                                                                                           |
| <b>6. NUMBER OF TRACKS (CHANNELS)</b><br><input type="checkbox"/> SEVEN<br><input checked="" type="checkbox"/> NINE<br><input type="checkbox"/> _____                                                        |  | <b>10. END OF FILE MARK</b><br><input type="checkbox"/> OCTAL 17<br><input type="checkbox"/> _____                                                                                                                                                              |
| <b>7. PARITY</b><br><input checked="" type="checkbox"/> ODD<br><input type="checkbox"/> EVEN                                                                                                                 |  | <b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b><br><br>022 008IMS<br>REDOUBT CRUISE RT08<br>Dr. Burrell<br>06/10/80 - 06/20/80<br><br>9 trk, 800BPI, EBCDIC, NO LABEL, ODD PARITY |
| <b>8. DENSITY</b><br><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI<br><input type="checkbox"/> 556 BPI<br><input checked="" type="checkbox"/> 800 BPI<br><input type="checkbox"/> _____ |  |                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                              |  | <b>13. LENGTH OF BYTES IN BITS</b><br><br>8 bit bytes                                                                                                                                                                                                           |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
|                    |                            |                                                                            |                                                                              |                                                               |

# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br><br>(e.g., bits, bytes) | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|-------|----------------|---------------------|
|                                                                                                          |                                                                       | NUMBER     | UNITS |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                       |            |       |                |                     |
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# RECORD FORMAT DESCRIPTION

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

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

| CC | 21  | 3603362362360 | 360370311324  | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
|----|-----|---------------|---------------|--------------|--------------|--------------|-------------|
| CC | 41  | 3223311345305 | 331342311343  | 350100326306 | 100301323301 | 342322301100 | NIVERSITY   |
| CC | 61  | 3113342100331 | 305342327326  | 325342311302 | 323305100306 | 326331100343 | IS RESPON   |
| CC | 81  | 3103311342100 | 3043301343301 | 100342310311 | 303310100346 | 301342100303 | HIS DATA    |
| CC | 101 | 322332323305  | 303343305304  | 100100100100 | 100100100100 | 100100100100 | OLLECTED    |
| CC | 21  | 3603362362360 | 360370311324  | 342361100100 | 100100361301 | 302326301331 | 022008IMS   |
| CC | 41  | 304100343310  | 305100331141  | 345100331305 | 304326344302 | 343100303331 | D THE R/V   |
| CC | 61  | 344211342305  | 100331343360  | 370100302305 | 343346205305 | 325100360366 | UISE RT08   |
| CC | 81  | 141361360141  | 370300100343  | 326100360366 | 141362360141 | 370360100302 | /10/80 TO   |
| CC | 101 | 350100304331  | 113100302344  | 331331305323 | 323100100100 | 100100100100 | Y DR. BUR   |
| CC | 21  | 3603362362360 | 360370311324  | 342361100100 | 100100361326 | 306100343310 | 022008IMS   |
| CC | 41  | 305100311325  | 342343311343  | 343326330510 | 323306100324 | 301331311325 | E INSTITUT  |
| CC | 61  | 305100342303  | 311305325303  | 305113130100 | 100100100100 | 100100100100 | E SCIENCE.  |
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| CC | 21  | 3603362362360 | 360370311324  | 342361100100 | 100100361343 | 310305331305 | 022008IMS   |
| CC | 41  | 100346305331  | 305100501100  | 343326343301 | 323100326306 | 100361360362 | WERE A TC   |
| CC | 61  | 100342343301  | 343311326325  | 342100311325 | 100343310305 | 100302326303 | STATIONS    |
| CC | 81  | 301100304305  | 100330344301  | 304331301100 | 301331305301 | 113100100100 | A DE QUADP  |
| CC | 101 | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 21  | 3603362362360 | 360370311324  | 342361100100 | 100100361342 | 343301343311 | 022008IMS   |
| CC | 41  | 3263225100325 | 344324302305  | 331342100301 | 331305100360 | 361140362365 | ON NUMBERS  |
| CC | 61  | 1533362367153 | 362371140363  | 361153363363 | 140363365153 | 363370140364 | .27-29-31   |
| CC | 81  | 3603362362360 | 360370311324  | 342361100100 | 100100361342 | 343301343311 | 0.43-45.45. |
| CC | 101 | 1533362367153 | 140364365153  | 364371140365 | 361153365364 | 140365366153 |             |

| CC | UTL2 | REPORT        | 771101        | PAGE         | 2            |              |             |
|----|------|---------------|---------------|--------------|--------------|--------------|-------------|
| CC | 81   | 365371140367  | 366153367371  | 140371361153 | 371364153100 | 100100100100 | 59-76,79-9  |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100365 |             |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361371 | 366153371371 | 022008IMS   |
| CC | 41   | 1533361360363 | 153361360367  | 153361361360 | 140361362361 | 140361362361 | .103.107.10 |
| CC | 61   | 1533361362364 | 140361363362  | 113100323326 | 343342100326 | 306100311325 | .124-132. L |
| CC | 81   | 343305331327  | 326323301343  | 305304100331 | 305303326331 | 304342100326 | TERPOLATED  |
| CC | 101  | 325100342343  | 301343311326  | 325100361361 | 365113100100 | 100100100100 | N STATION   |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361342 | 343304100343 | 022008IMS   |
| CC | 41   | 326100326325  | 323350100362  | 367100324305 | 343305331342 | 100306326331 | O ONLY 27 M |
| CC | 61   | 100342343301  | 343311326325  | 100361362365 | 113100100100 | 100100100100 | STATION 12  |
| CC | 81   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100367 |             |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361342 | 343301343311 | 022008IMS   |
| CC | 41   | 3263325342100 | 346311343310  | 100360100306 | 326331100323 | 301343311343 | ONS WITH O  |
| CC | 61   | 344304305100  | 120100323326  | 325307311343 | 344304305100 | 311325304311 | UDE & LONGI |
| CC | 81   | 303305331327  | 100323326303  | 301343311326 | 325100325326 | 343100322325 | CATE LOCATI |
| CC | 101  | 326346325113  | 100100100100  | 100100100100 | 100100100100 | 100100100100 | OWN.        |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361306 | 311305323304 | 022008IMS   |
| CC | 41   | 100330326331  | 331305303343  | 311326325100 | 306326331100 | 343310311342 | CORRECTION  |
| CC | 61   | 100330331344  | 311342305100  | 346301342100 | 343301322305 | 325100306331 | CRUISE WAS  |
| CC | 81   | 3263324100331 | 305304326344  | 302343100303 | 331344311342 | 305100331343 | OM REDOUBT  |
| CC | 101  | 360370113100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 06.         |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361306 | 311305323304 | 022008IMS   |
| CC | 41   | 100330326331  | 331305303343  | 311326325100 | 306326331100 | 343310305100 | CORRECTION  |
| CC | 61   | 342343304100  | 304301343301  | 100346301342 | 100304305331 | 311345305304 | STD DATA WA |
| CC | 81   | 100302326343  | 343323305100  | 301331311325 | 307100342311 | 325307323305 | BY COMPARI  |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 323305342100 | 100100100100 | BOTTLE SAM  |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361343 | 326100331305 | 022008IMS   |
| CC | 41   | 3053362331304 | 305304100345  | 301323344305 | 342100306331 | 326324100343 | CORDED VALU |
| CC | 61   | 3103305100342 | 343304100342  | 305325342326 | 331342113100 | 100343310305 | HE STD SENS |
| CC | 81   | 1003362311305 | 3233304100303 | 326331311326 | 303343311326 | 325100311342 | FIELD CORR  |
| CC | 101  | 100302301342  | 305304100326  | 325100362370 | 100100100100 | 100100100100 | BASED ON 2  |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361342 | 301324327323 | 022008IMS   |
| CC | 41   | 3053362330306 | 331326324100  | 301100343326 | 343301323100 | 326306100361 | ES FROM A T |
| CC | 61   | 3603362330306 | 343301343311  | 326325342113 | 100343310305 | 30306311305  | 02 STATIONS |
| CC | 81   | 3253304100303 | 326331311305  | 303343311326 | 325100311342 | 100100100100 | LD CORRECTI |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361100 | 100100100100 | 022008IMS   |
| CC | 41   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 61   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100361363 |             |
| CC | 81   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 21   | 3603362362360 | 360370311324  | 342361100100 | 100100361100 | 100100100100 | 022008IMS   |
| CC | 41   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 61   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 81   | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |
| CC | 101  | 100100100100  | 100100100100  | 100100100100 | 100100100100 | 100100100100 |             |

| CC | UTL2 | REPORT        | 771101       | PAGE         | 3            |              |            |
|----|------|---------------|--------------|--------------|--------------|--------------|------------|
| CC | 21   | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100343 | EMPERATURE |
| CC | 41   | 3053362327305 | 331331342342 | 331305100324 | 305301325115 | 325301325342 | EN-STD) IS |
| CC | 61   | 3053362340342 | 343304135100 | 100311342100 | 100300113360 | 323371365362 |            |
| CC | 81   | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100100 |            |

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    |                             | AUG.79                       | NRCC                                 |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
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|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

REV D7513: 4/9/81

ACCESSION  
NUMBER

ORIGINATOR'S TAPE # W1642 DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2651

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                                                                                                                                                            |                                                 |                                                                                                      |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                           |                                                 |                                                                                                      |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |                               |
|                                                                                                                                                                                                                                                                 |                                                 | RT13                                                                                                 |                               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                             | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR NATIONALITY(IES)                                                            | 7. DATES                      |
| M/V REDOUBT                                                                                                                                                                                                                                                     | SHIP                                            | USA USA                                                                                              | FROM: MO/DAY/YR TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                 |                                                 |                                                                                                      | 11/13/80 11/18/80             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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. |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                         |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                 |                                                                                                      |                               |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

### 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                             |
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| <b>5. RECORDING MODE</b><br><input type="checkbox"/> BCD <input type="checkbox"/> BINARY<br><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC<br><input type="checkbox"/> _____      |  | <b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH<br><input checked="" type="checkbox"/> .5 - .6 inch                                                                                                                                                       |
| <b>6. NUMBER OF TRACKS (CHANNELS)</b><br><input type="checkbox"/> SEVEN<br><input checked="" type="checkbox"/> NINE<br><input type="checkbox"/> _____                                                        |  | <b>10. END OF FILE MARK</b><br><input type="checkbox"/> OCTAL 17<br><input type="checkbox"/> _____                                                                                                                                                                                          |
| <b>7. PARITY</b><br><input checked="" type="checkbox"/> ODD<br><input type="checkbox"/> EVEN                                                                                                                 |  | <b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b><br><br>022 013IMS<br>REDOUBT CRUISE RT13<br>Dr. Burrell<br>11/13/80 - 11/18/80<br>Stations:01-9,15,18,23,26,28-34.<br>9 trk,800BPI,EBCDIC,NO LABEL,ODD PARITY |
| <b>8. DENSITY</b><br><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI<br><input type="checkbox"/> 556 BPI<br><input checked="" type="checkbox"/> 800 BPI<br><input type="checkbox"/> _____ |  |                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                              |  | <b>13. LENGTH OF BYTES IN BITS</b><br><br>8 bit bytes                                                                                                                                                                                                                                       |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
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# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION FROM - 1<br>MEASURED IN<br><br>(e.g., bits, bytes) | 16. LENGTH                        |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------|-------|----------------|---------------------|
|                                                                                                          |                                                                 | NUMBER                            | UNITS |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                 |                                   |       |                |                     |
|                                                                                                          | 1. Col. 45-49                                                   | Depth in meters (I5 to 1/10ths)   |       |                |                     |
|                                                                                                          | 2. Col. 50-53                                                   | Salinity in 0/00 (I4 to 1/100ths) |       |                |                     |
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# RECORD FORMAT DESCRIPTION

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

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

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 1078 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
FILE CODE OT FILE NUMBER 1

|    |   |    |     |              |               |              |              |              |
|----|---|----|-----|--------------|---------------|--------------|--------------|--------------|
| CI | 1 | R  | 1   | 360362362360 | 361363311324  | 342361100100 | 100100361343 | 310305100344 |
|    |   | CC | 21  | 325311345305 | 331342311343  | 350100326306 | 100301323301 | 342322301100 |
|    |   | CC | 41  | 311342100331 | 305342327326  | 325342311302 | 323305100306 | 326331100343 |
|    |   | CC | 61  | 310311342100 | 304301343301  | 100346310311 | 303310100346 | 301342100303 |
|    |   | CC | 81  | 326323323305 | 303343305304  | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100361 |
|    |   | R  | 2   | 360362362360 | 361363311324  | 342361100100 | 100100361301 | 302326301331 |
|    |   | CC | 21  | 304100343310 | 305100324141  | 345100331305 | 304326344302 | 343100303331 |
|    |   | CC | 41  | 344311342305 | 100331343361  | 363100302305 | 343346305305 | 325100361361 |
|    |   | CC | 61  | 141361363141 | 370360100140  | 100361361141 | 361370141370 | 360100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100362 |
|    |   | R  | 3   | 360362362360 | 361363311324  | 342361100100 | 100100361302 | 350100304331 |
|    |   | CC | 21  | 113100302344 | 331331305323  | 323100326306 | 100343310305 | 100311325342 |
|    |   | CC | 41  | 343311343344 | 343305100326  | 306100324301 | 331311325305 | 100342303311 |
|    |   | CC | 61  | 305325303305 | 113100100100  | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100363 |
|    |   | R  | 4   | 360362362360 | 361363311324  | 342361100100 | 100100361343 | 310305331305 |
|    |   | CC | 21  | 100346305331 | 305100301100  | 343326343301 | 323100326306 | 100362361100 |
|    |   | CC | 41  | 342343301343 | 311326325342  | 100311325100 | 343310305100 | 342324305301 |
|    |   | CC | 61  | 343326325100 | 3023013050100 | 301331305301 | 113100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100  | 100100100100 | 100100100100 | 100100100364 |
|    |   | R  | 5   | 360362362360 | 361363311324  | 342361100100 | 100100361343 | 310305100342 |
|    |   | CC | 21  | 343301343311 | 326325100325  | 344324302305 | 331342100301 | 331305100100 |
|    |   | CC | 41  | 361140371153 | 361365153361  | 370153362363 | 153362366153 | 362370140363 |

022013IMS1 1THE U  
NIVERSITY OF ALASKA  
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TATION NUMBERS ARE  
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REPORT 771101

PAGE 2

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|----|---|----|------|--------------|--------------|--------------|--------------|--------------|
|    |   | CC | 61   | 364113100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
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|    |   | CC | 101  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100365 |
| CI | 2 | R  | 6    | 360362362360 | 361363311324 | 342361100100 | 100100361343 | 310305331305 |
|    |   | CC | 21   | 100311342100 | 325326100342 | 343304100304 | 301343301100 | 306326331100 |
|    |   | CC | 41   | 342343301343 | 311326325100 | 361360113100 | 100100100100 | 100100100100 |
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|    |   | R  | 7    | 360362362360 | 361363311324 | 342361100100 | 100100361306 | 311305323304 |
|    |   | CC | 21   | 100303326331 | 331305303343 | 311326325100 | 306326331100 | 343310311342 |
|    |   | CC | 41   | 100303331344 | 311342305100 | 346301342100 | 343301322305 | 325100306331 |
|    |   | CC | 61   | 326324100324 | 141345100331 | 305304326344 | 302343100303 | 331344311342 |
|    |   | CC | 81   | 305100331343 | 361363113100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100367 |
|    |   | R  | 8    | 360362362360 | 361363311324 | 342361100100 | 100100361306 | 311305323304 |
|    |   | CC | 21   | 100303326331 | 331305303343 | 311326325100 | 306326331100 | 343310305100 |
|    |   | CC | 41   | 342343304100 | 304301343301 | 100346301342 | 100304305331 | 311345305304 |
|    |   | CC | 61   | 100302350100 | 303326324327 | 301331311325 | 307100342311 | 325307323305 |
|    |   | CC | 81   | 100302326343 | 343323305100 | 342301324327 | 323305342100 | 100100100100 |
|    |   | CC | 101  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100370 |
|    |   | R  | 9    | 360362362360 | 361363311324 | 342361100100 | 100100361343 | 326100331305 |
|    |   | CC | 21   | 303326331304 | 305304100345 | 301323344305 | 342100306331 | 326324100343 |

4.

5

022013IMS1 1THERE  
IS NO STD DATA FOR  
STATION 10.

6

022013IMS1 1FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM M/V REDOUBT CRUISE  
RT13.

7

022013IMS1 1FIELD  
CORRECTION FOR THE  
STD DATA WAS DERIVED  
BY COMPARING SINGLE  
BOTTLE SAMPLES022013IMS1 1TO ME  
CORDED VALUES FROM T

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | SEPT. 80                    |                              | INTER<br>OCEAN                       |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
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|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

RCD 07513: 4/9/81

ACCESSION  
NUMBER

# ORIGINATOR'S TAPE # W1564 DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2651

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                                       |                                                 |                                                                                                      |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.<br>FAIRBANKS, ALASKA 99701                      |                                                 |                                                                                                      |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                        |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |                               |
|                                                                                                                                            |                                                 | RT14                                                                                                 |                               |
| 4. PLATFORM NAME(S)                                                                                                                        | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                         | 7. DATES                      |
| M/V REDOUBT                                                                                                                                | SHIP                                            | USA USA                                                                                              | FROM: MO/DAY/YR TO: MO/DAY/YR |
|                                                                                                                                            |                                                 |                                                                                                      | 12/05/80 12/18/80             |
| 8. ARE DATA PROPRIETARY?                                                                                                                   |                                                 | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. |                               |
| <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH       |                                                 | GENERAL AREA<br>                                                                                     |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) |                                                 |                                                                                                      |                               |
| <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)                          |                                                 |                                                                                                      |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)               |                                                 |                                                                                                      |                               |
| Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                                            |                                                 |                                                                                                      |                               |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br><br>(e.g., bits, bytes)                            | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------|-------|----------------|---------------------|
|                                                                                                          |                                                                                                  | NUMBER     | UNITS |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                                                  |            |       |                |                     |
|                                                                                                          | 1. Col. 45-49 Depth in meters (I5 to 1/10ths)<br>2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) |            |       |                |                     |

## RECORD FORMAT DESCRIPTION

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

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

### 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5. RECORDING MODE</b><br><input type="checkbox"/> BCD <input type="checkbox"/> BINARY<br><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC<br><input type="checkbox"/> _____      | <b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH<br><input checked="" type="checkbox"/> .5 - .6 inch                                                                                                                                                             |
| <b>6. NUMBER OF TRACKS (CHANNELS)</b><br><input type="checkbox"/> SEVEN<br><input checked="" type="checkbox"/> NINE<br><input type="checkbox"/> _____                                                        | <b>10. END OF FILE MARK</b><br><input type="checkbox"/> OCTAL 17<br><input type="checkbox"/> _____                                                                                                                                                                                                |
| <b>7. PARITY</b><br><input checked="" type="checkbox"/> ODD<br><input type="checkbox"/> EVEN                                                                                                                 | <b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b><br>022 014IMS<br>REDOUBT CRUISE RT14<br>Dr. Burrell<br>12/05/80 - 12/18/80<br>Stations:1-3,6,10,15,18,20,24-25,30,33,36.<br>9 trk,800BPI,EBCDIC,NO LABEL,ODD PARITY |
| <b>8. DENSITY</b><br><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI<br><input type="checkbox"/> 556 BPI<br><input checked="" type="checkbox"/> 800 BPI<br><input type="checkbox"/> _____ | <b>12. PHYSICAL BLOCK LENGTH IN BYTES</b><br>5-120 bytes/block                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                              | <b>13. LENGTH OF BYTES IN BITS</b><br>8 bit bytes                                                                                                                                                                                                                                                 |

## B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
|                    |                            |                                                                            |                                                                              |                                                               |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED

802 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.

FILE CODE OT FILE NUMBER 1

| CI | 1   | R  | 1   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305100344 |
|----|-----|----|-----|--------------|--------------|--------------|--------------|--------------|
| CC | 21  | CC | 21  | 325311345305 | 331342311343 | 350100326306 | 100301323301 | 342322301100 |
| CC | 41  | CC | 41  | 311342100331 | 305342327326 | 325342311302 | 323305100306 | 326331100343 |
| CC | 61  | CC | 61  | 310311342100 | 304301343301 | 100346310311 | 303310100346 | 301342100303 |
| CC | 81  | CC | 81  | 326323323305 | 303343305304 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100361 |
| R  | 2   | R  | 2   | 360362362360 | 361364311324 | 342361100100 | 100100361301 | 302326301331 |
| CC | 21  | CC | 21  | 304100343310 | 305100331141 | 345100331305 | 304326344302 | 343100303331 |
| CC | 41  | CC | 41  | 344311342305 | 100331343361 | 364100302305 | 343346305305 | 325100361362 |
| CC | 61  | CC | 61  | 141360365141 | 370360100140 | 100361362141 | 361370141370 | 360100100100 |
| CC | 81  | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100362 |
| R  | 3   | R  | 3   | 360362362360 | 361364311324 | 342361100100 | 100100361302 | 350100304331 |
| CC | 21  | CC | 21  | 113100302344 | 331331305323 | 323100326306 | 100343310305 | 100311325342 |
| CC | 41  | CC | 41  | 343311343344 | 343305100326 | 306100324301 | 331311325305 | 100342303311 |
| CC | 61  | CC | 61  | 305325303305 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 81  | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100363 |
| R  | 4   | R  | 4   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305331305 |
| CC | 21  | CC | 21  | 100346305331 | 305100301100 | 343326343301 | 323100326306 | 100361370100 |
| CC | 41  | CC | 41  | 342343301343 | 311326325342 | 100311325100 | 343310305100 | 302326303301 |
| CC | 61  | CC | 61  | 100304305100 | 330344301304 | 331301100120 | 100342324305 | 301343326325 |
| CC | 81  | CC | 81  | 100302301350 | 100301331305 | 301113100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100364 |
| R  | 5   | R  | 5   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305100342 |
| CC | 21  | CC | 21  | 343301343311 | 326324302325 | 344324302305 | 331342100301 | 331305100100 |
| CC | 41  | CC | 41  | 361140363153 | 366153361360 | 153361365153 | 361370153362 | 360153362364 |

022014IMS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

1

022014IMS1 1ABOAR  
D THE R/V REDOUBT CR  
UISE RT14 BETWEEN 12  
/05/80 - 12/18/80

2

022014IMS1 1BY DR  
BURRELL OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

3

022014IMS1 1THERE  
WERE A TOTAL OF 18  
STATIONS IN THE BOCA  
DE QUADRA & SMEATON  
BAY AREA.

4

022014IMS1 1THE S  
TATION NUMBERS ARE  
1-3,6,10,15,18,20,24

7658T 2 04/02/81

UTL2

REPORT

771101

PAGE

2

| CI | 2   | R  | 6   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305331305 |
|----|-----|----|-----|--------------|--------------|--------------|--------------|--------------|
| CC | 21  | CC | 21  | 100311342100 | 325326100342 | 343304100304 | 301343301100 | 306326331100 |
| CC | 41  | CC | 41  | 342343301311 | 326325342100 | 370153361362 | 153361364153 | 363362153100 |
| CC | 61  | CC | 61  | 120100363365 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 81  | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100366 |
| R  | 7   | R  | 7   | 360362362360 | 361364311324 | 342361100100 | 100100361325 | 326343305100 |
| CC | 21  | CC | 21  | 343310301343 | 100342343301 | 343311326325 | 100363100310 | 301342100323 |
| CC | 41  | CC | 41  | 326343342100 | 326306100311 | 325343305331 | 327326323301 | 343305304100 |
| CC | 61  | CC | 61  | 304301343301 | 100301343100 | 302326343343 | 326324100326 | 306100343310 |
| CC | 81  | CC | 81  | 305100303301 | 342343113100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100367 |
| R  | 8   | R  | 8   | 360362362360 | 361364311324 | 342361100100 | 100100361306 | 311305323304 |
| CC | 21  | CC | 21  | 100303326331 | 331305303343 | 311326325100 | 306326331100 | 343310311342 |
| CC | 41  | CC | 41  | 100303331344 | 311342305100 | 346301342100 | 343301322305 | 325100306331 |
| CC | 61  | CC | 61  | 326324100331 | 305304326344 | 302343100303 | 331344311342 | 305100331343 |
| CC | 81  | CC | 81  | 361364113100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100370 |
| R  | 9   | R  | 9   | 360362362360 | 361364311324 | 342361100100 | 100100361306 | 311305323304 |
| CC | 21  | CC | 21  | 100303326331 | 331305303343 | 311326325100 | 306326331100 | 343310311342 |
| CC | 41  | CC | 41  | 342343304100 | 304301343301 | 100346301342 | 100304305331 | 311345305304 |
| CC | 61  | CC | 61  | 100302350100 | 303326324327 | 301331311325 | 307100342311 | 325307323305 |

-25,30,33,36.

5

022014IMS1 1THERE  
IS NO STD DATA FOR  
STATIONS 8,12,14,32,  
& 35.

6

022014IMS1 1NOTE  
THAT STATION 3 HAS L  
OTS OF INTERPOLATED  
DATA AT BOTTOM OF TH  
E CAST.

7

022014IMS1 1FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUBT CRUISE RT  
14.

8

022014IMS1 1FIELD  
CORRECTION FOR THIS  
STD DATA WAS DERIVED  
BY COMPARING SINGLE  
RATIOS

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | SEPT. 80                    |                              | INTER<br>OCEAN                       |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

TAPE OR DISK ASSIGNMENT SHEET  
(MRL) 11/6/78  
(Rev. 11/80)

ACCESSION/TRACK NO.:

| TYPE OF TAPE     | TAPE NUMBER | LABEL | LRECL | BLKSIZE | RECFM | REMARKS                                            | # RECORDS |
|------------------|-------------|-------|-------|---------|-------|----------------------------------------------------|-----------|
| ORIGINATOR       | 013138      | NL    | 600   | 600     | FB    | Took three<br>Orig tapes<br>copied to<br>one file. |           |
| DUPLICATE        |             |       |       |         |       |                                                    |           |
| REFORMATTED      |             |       |       |         |       |                                                    |           |
| FIRST USER       |             |       |       |         |       |                                                    |           |
| FINAL USER       |             |       |       |         |       |                                                    |           |
| DISK FILE        | DSN         |       |       |         |       | REMARKS                                            | # RECORDS |
| WORK DISK FILE   |             |       |       |         |       |                                                    |           |
| EDITED DISK FILE |             |       |       |         |       |                                                    |           |

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # \_\_\_\_\_

- 1) File Type: File Type 022
- 2) Project Ident.: \_\_\_\_\_
- 3) Track Nos.: \_\_\_\_\_

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: \_\_\_\_\_

ACCESSION/TRACK # \_\_\_\_\_

| <u>Step</u>           | <u>Completion Date/Init.</u> |    | <u>Tape #<br/>or DSN</u> | <u># of<br/>Files</u> | <u>BLKSIZE</u> | <u>LRECL</u> | <u># RECORDS</u> |
|-----------------------|------------------------------|----|--------------------------|-----------------------|----------------|--------------|------------------|
| ORIGINATOR TAPE #     | 5/6/81                       | EA | 013138                   | ONE                   | 600            | 600          |                  |
| QUADI/SCAN TAPE #     |                              |    |                          |                       |                |              |                  |
| ASSIGNED FOR PROCESS. |                              |    |                          |                       |                |              |                  |
| DDF EVALUATION        |                              |    |                          |                       |                |              |                  |
| QUALITY REVIEW        |                              |    |                          |                       |                |              |                  |
| PRELIMINARY DATA SORT |                              |    |                          |                       |                |              |                  |
| PRELIMINARY MULCHEK   |                              |    |                          |                       |                |              |                  |
| FIRST USER TAPE #     |                              |    |                          |                       |                |              |                  |
| WORK DISK FILE        |                              |    |                          |                       |                |              |                  |
| FINAL USER TAPE #     |                              |    |                          |                       |                |              |                  |
| FINAL MULCHEK         |                              |    |                          |                       |                |              |                  |
| EDITED DISK FILE      |                              |    |                          |                       |                |              |                  |
| DATA SET "FINALIZED"  |                              |    |                          |                       |                |              |                  |



RCVP  
4/20/81

UNIVERSITY OF ALASKA, FAIRBANKS  
Fairbanks, Alaska 99701  
INSTITUTE OF MARINE SCIENCE

Mr. Robert N. Stone  
Data Section  
U.S. Dept. of Commerce  
National Oceanographic Data Center  
Washington, D.C. 20235  
April 15, 1981

Dear Mr. Stone:

We have dumped the beginning of the enclosed tape and the end of the tape to verify that we can read this tape. Since you state that you are experiencing problems reading this tape, perhaps you could try it again and be more detailed in your explanation of your problems if you are still experiencing problems. We encountered no problems reading this tape. We sent several other tapes of this same format with this tape originally. Since you did not mention the other tapes, I assume that you did not have any problems with those tapes. If I do not hear from you I will assume that you were able to read this tape as well.

Sincerely yours,

A handwritten signature in cursive script that reads "Marcia Boyette".

Marcia Boyette  
Data Control Clerk

Enclosures - Tape W2074 - Redoubt cruise RT8



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
ENVIRONMENTAL DATA AND INFORMATION SERVICE  
Washington, D.C. 20235  
**NATIONAL OCEANOGRAPHIC DATA CENTER**

April 6, 1981

D7513/RNS

Ms. Cydney Hansen  
Institute of Marine Science  
University of Alaska  
Fairbanks, Alaska 99701

Dear Ms. Hansen:

We have encountered problems with some data submitted by your organization. These are:

1. Your tape W1541, File Type 015 - Within this file type there are two detail records - a record type "3" and "4". The data on your tape reports depth and salinity in columns designated for pressure and conductivity in record type "3". We could accomodate the salinity values in record type "4", but nowhere do we have a field for depth. We do on rare occasions create new record types, but try to keep this course of action to a minimum. This is done to keep the standard formats from constantly changing. Would it be possible to receive pressure values for this data vice depth? If so please include in record type "4" with reported salinities.

2. Your tape W2074, File Type 022 - We are experiencing problems reading this tape. Could you supply us with another copy?

Thank you for your help in these two matters.

Sincerely yours,

Robert N. Stone  
Chief,  
Multidisciplinary Data Section

Enclosures



**10TH ANNIVERSARY 1970-1980**

**National Oceanic and Atmospheric Administration**

A young agency with a historic  
tradition of service to the Nation

Andy

1-CD L NA

W.O.D.C. -- TRACK RECORD

ACCESSION NO [ 8100586 ] REFERENCE NO [ TR743 ] DNP (Y/N) [ Y ]

COUNTRY CODE [ 31 ] COUNTRY [ U.S.A ]

INST. CODE [ I7 ]

FILE-ALIAS [ F022 ] FILE-NAME [ STD ]

PROJ-CODE [ ] PROJ-NAME [ ]

MEDIUM: CODE [ 9 ] TYPE [ Mag. Tape ]

PLATFORM:

TYPE CODE [ 9 ] TYPE [ Ship ]

PLAT CODE [ 32YQ ] NAME [ ]

CRUISE NO [ RT08 ] CRUISE-START [ 800610 ] CRUISE-END [ 800620 ]

ACOUNT [ 1029 ] STATIONS-IN [ ] STATIONS-OUT [ ]

STATUS REJ [ ] SU [ ] SP [ 810731 ] QUAD [ ]

DATES: PROCESS [ ] DIP [ ] VELOCITY [ ] RETCOR [ ]

DATA TRACK: RU [ ] FILE-ID [ ] LEASE [ ]

ACCESSION NO [ ] REFERENCE NO [ TR7432 ] DNP (Y/N) [ ]

COUNTRY CODE [ 31 ] COUNTRY [ USA ]

INST. CODE [ I7 ]

FILE-ALIAS [ F022 ] FILE-NAME [ STD ]

PROJ-CODE [ ] PROJ-NAME [ ]

MEDIUM: CODE [ 9 ] TYPE [ Mag. Tape ]

PLATFORM:

TYPE CODE [ 9 ] TYPE [ Ship ]

PLAT CODE [ 32YQ ] NAME [ ]

CRUISE NO [ RT13 ] CRUISE-START [ 801113 ] CRUISE-END [ 801118 ]

ACOUNT [ 215 ] STATIONS-IN [ ] STATIONS-OUT [ ]

STATUS REJ [ ] SU [ ] SP [ 810731 ] QUAD [ ]

DATES: PROCESS [ ] DIP [ ] VELOCITY [ ] RETCOR [ ]

T-CD [ NA ]

## N.O.D.C. -- TRACK RECORD

ACCESSION NO [ ] REFERENCE NO [ TR7438 ] DNP (Y/N)

COUNTRY CODE [ 31 ] COUNTRY [ USA ]

INST. CODE [ I7 ]  
[ ]

FILE-ALIAS [ F022 ] FILE-NAME [ ]

PROJ-CODE [ ] PROJ-NAME [ ]

MEDIUM: CODE [ 9 ] TYPE [ Mag. Tape ]  
PLATFORM:

TYPE CODE [ 9 ] TYPE [ Ship ]

PLAT CODE [ 32YQ ] NAME [ ]

CRUISE NO [ RT14 ] CRUISE-START [ 801205 ] CRUISE-END [ 801218 ]

RCOUNT [ 160 ] STATIONS-IN [ ] STATIONS-OUT [ ]

STATUS REJ [ ] SU [ ] SP [ 810731 ] QUADI [ ]

DATES: PROCESS [ ] DIP [ ] MFUPDT [ ] RETCOR [ ]

DATA TRACK: RU [ ] FILE-ID [ ] LEASE [ ]  
-----

ACCESSION NO [ ] REFERENCE NO [ ] DNP (Y/N) [ ]

COUNTRY CODE [ ] COUNTRY [ ]

INST. CODE [ ]  
[ ]

FILE-ALIAS [ ] FILE-NAME [ ]

PROJ-CODE [ ] PROJ-NAME [ ]

MEDIUM: CODE [ ] TYPE [ ]

PLATFORM:

TYPE CODE [ ] TYPE [ ]

PLAT CODE [ ] NAME [ ]

CRUISE NO [ ] CRUISE-START [ ] CRUISE-END [ ]

RCOUNT [ ] STATIONS-IN [ ] STATIONS-OUT [ ]

STATUS REJ [ ] SU [ ] SP [ ] QUADI [ ]

DATES: PROCESS [ ] DIP [ ] MFUPDT [ ] RETCOR [ ]

DATA TRACK: RU [ ] FILE-ID [ ] LEASE [ ]

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100586

- 1) File Type: FT 822  
2) Project Ident.: NON-1007EC1  
3) Track Nos.: 7431-33 & 7911-13 & 8022

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

Pressure values of 0

Values of 0 deleted

Positions missing in  
274 Records in Track

Records Deleted

7913,  
Repetition of Record Type  
1 in all tracks

Eliminated excess  
Record Type 1s in  
all tracks (Total

III. Processing Name:

*J. Nelson* eliminated 2,652. *AK*

104 556 / 7431-33, 7911-13, 8p22

| TAPE<br>NUMBER         | LABEL                                             | LRCL                     | BLKSIZE | RECEN | REMARKS | # RECORDS                    |
|------------------------|---------------------------------------------------|--------------------------|---------|-------|---------|------------------------------|
| ORIGINATOR             | <del>*</del>                                      | NL                       | 12φ     | 48φφ  | FB      |                              |
| DUPLICATE              | <del>5124-2</del><br><del>5124-1</del><br>RDT 022 | NL                       | 12φ     | 48φφ  | FB      | <del>5291</del><br>10,464    |
| REFORMATTED            |                                                   |                          |         |       |         |                              |
| FILE<br>USER           |                                                   |                          |         |       |         |                              |
| FILE<br>USER           |                                                   |                          |         |       |         |                              |
| DISK FILE              | DSH                                               |                          |         |       | REMARKS | # RECORDS                    |
| WORK<br>DISK<br>FILE   |                                                   | DIS JOY * F022A. TR 7431 |         |       |         | 18 190<br>* - 2 652<br>7,538 |
| EDITED<br>DISK<br>FILE |                                                   |                          |         |       |         |                              |

\* Put all six originators input tapes onto cc  
single file output tape.

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8104586

- 1) File Type: FT 822  
2) Project Ident.: NON-PROJECT  
3) Track Nos.: 7431-33 & 7911-13 & 8022

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

Pressure value of 0

Pressure value of 0  
deleted.

Positions missing in  
274 Records in track

Records Deleted

<sup>7913</sup>  
Repetition of Record Type  
Is in all tracks.

Eliminated Int'l of  
\* 2,652 Record Type  
Is.

III. Processor Name:

J. Nelson

SESSION/TRACK NO.: 8104556/7431-33, 7911-13, 8022

| TYPE OF TAPE     | TAPE NUMBER                                              | LABEL                  | LRECL | BLKSIZE | RECFM | REMARKS | # RECORDS                    |
|------------------|----------------------------------------------------------|------------------------|-------|---------|-------|---------|------------------------------|
| ORIGINATOR       | *                                                        | NL                     | 120   | 4800    | FB    |         |                              |
| DUPLICATE        | <del>5104556</del><br><del>8104556</del><br>DD<br>RDT022 | NL                     | 120   | 4800    | FB    |         | <del>5291</del><br>10,464    |
| REFORMATTED      |                                                          |                        |       |         |       |         |                              |
| FIRST USER       |                                                          |                        |       |         |       |         |                              |
| FINAL USER       |                                                          |                        |       |         |       |         |                              |
| DISK FILE        | DSN                                                      |                        |       |         |       | REMARKS | # RECORDS                    |
| WORK DISK FILE   |                                                          | DISJOY* F022A. TR 7431 |       |         |       |         | 10,190<br>* 2,652<br># 7,538 |
| EDITED DISK FILE |                                                          |                        |       |         |       |         |                              |

\* Put all six originators input tapes onto a single file output tape.

# DATA SET ROUTE SHEET

ACCESSION/TRACK # 8144586 / 7431-33  
7911-13  
8022

| Step                  | Completion Date/Init. |    | Tape #<br>or DSN                       | # of<br>Files | BLKSIZE | LRECL | # RECORDS                 |
|-----------------------|-----------------------|----|----------------------------------------|---------------|---------|-------|---------------------------|
| ORIGINATOR TAPE #     |                       |    |                                        |               |         |       |                           |
| QUADI/SCAN TAPE #     |                       |    |                                        |               |         |       |                           |
| DDF EVALUATION        | 6/3/82                | JN |                                        |               |         |       |                           |
| QUALITY REVIEW        | 6/3/82                | JN |                                        |               |         |       |                           |
| PRELIMINARY DATA SORT |                       |    |                                        |               |         |       |                           |
| PRELIMINARY MULCHEK   | 6/3/82                | JN | DISJ04 * F022A.TR7431                  |               |         |       |                           |
| FIRST USER TAPE #     | 3/5/82                | EA | <del>RD1072</del><br><del>510/22</del> | ONE           | 4800    | 120   | 19464<br><del>5,291</del> |
| WORK DISK FILE        | 6/3/82                | JN | DISJ04 * F022A.TR7431                  |               |         |       |                           |
| FINAL USER TAPE #     |                       |    |                                        |               |         |       |                           |
| FINAL MULCHEK         | 6/4/82                | JN | DISJ04 * F022A.TR7431                  |               |         |       |                           |
| EDITED DISK FILE      |                       |    |                                        |               |         |       | 7348<br><del>10,190</del> |
| DATA SET "FINALIZED"  |                       |    |                                        |               |         |       |                           |

# DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2631

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                                                                                                                                                            |                                                 |                                                                                                                       |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                           |                                                 |                                                                                                                       |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                                              |                               |
|                                                                                                                                                                                                                                                                 |                                                 | RT08                                                                                                                  |                               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                             | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                                          | 7. DATES                      |
| R/V REDOUBT                                                                                                                                                                                                                                                     | SHIP                                            | PLATFORM OPERATOR                                                                                                     | FROM: MO/DAY/YR TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                 |                                                 | USA USA                                                                                                               | 06/10/80 06/20/80             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED<br>FOR GENERAL USE? YEAR MONTH                                                                                             |                                                 | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.<br>GENERAL AREA: |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 |                                                                                                                       |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                 |                                                                                                                       |                               |

# 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 |
|--------------------|-------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------|
| SALINITY           | 0.001 ‰                 | NANSEN BOTTLES & INTEROCEAN CASSETTE CTD                             | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |
| TEMPERATURE        | °C                      | DSR THERMOMETERS & INTEROCEAN CASSETTE CTD                           | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |
| DEPTH              | 0.1m (1m = 1db)         | THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD                         | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

## 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

### THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

### COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                   |                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5. RECORDING MODE</b><br><input type="checkbox"/> BCD <input type="checkbox"/> BINARY<br><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC<br><input type="checkbox"/> | <b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH<br><input checked="" type="checkbox"/> .5 - .6 inch                                                                                                                       |
| <b>6. NUMBER OF TRACKS (CHANNELS)</b><br><input type="checkbox"/> SEVEN<br><input checked="" type="checkbox"/> NINE<br><input type="checkbox"/>                                                   | <b>10. END OF FILE MARK</b><br><input type="checkbox"/> OCTAL 17<br><input type="checkbox"/>                                                                                                                                                                |
| <b>7. PARITY</b><br><input checked="" type="checkbox"/> ODD<br><input type="checkbox"/> EVEN                                                                                                      | <b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b><br><br>022 008IMS<br>REDOUBT CRUISE RT08<br>Dr. Burrell<br>06/10/80 - 06/20/80<br>9 trk, 800BPI, EBCDIC, NO LABEL, ODD PARITY |
| <b>8. DENSITY</b><br><input type="checkbox"/> 200 BPI 1600 BPI<br><input type="checkbox"/> 556 BPI<br><input checked="" type="checkbox"/> 800 BPI<br><input type="checkbox"/>                     | <b>12. PHYSICAL BLOCK LENGTH IN BYTES</b><br>5-120 bytes/block                                                                                                                                                                                              |
|                                                                                                                                                                                                   | <b>13. LENGTH OF BYTES IN BITS</b><br>8 bit bytes                                                                                                                                                                                                           |

# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                                                                                                                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br>(e.g., bits, bytes) | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------|-------|----------------|---------------------|
|                                                                                                                                                                                                                                                                          |                                                                   | NUMBER     | UNITS |                |                     |
| <p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> <li>1. Col. 45-49 Depth in meters (I5 to 1/10ths)</li> <li>2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths)</li> </ol> |                                                                   |            |       |                |                     |

DEFF IN,GFRC,ASCII,  
 DEFF OT,IBM,MLAB,NSEP,ERCDC,F120,C1600.  
 DEPT IN,RFCT,  
 PRGC RFW IN. COPY IN TO OT 1F. REV OT. DUMP OT 15R.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
 FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 5174 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
 FILE CODE OT FILE NUMBER

| FILE CODE | OT  | FILE NUMBER  | 1            | 2            | 3            | 4            | 5            |
|-----------|-----|--------------|--------------|--------------|--------------|--------------|--------------|
| CC        | R   | 1            | 360362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |
| CC        | 21  | 325311345305 | 331342311343 | 350100326306 | 100301323301 | 342322301100 |              |
| CC        | 41  | 311342100331 | 305342327326 | 325342311302 | 323305100306 | 326331100343 |              |
| CC        | 61  | 310311342100 | 304301343301 | 100346310311 | 303310100346 | 301342100303 |              |
| CC        | 81  | 32632333305  | 303343305304 | 100100100100 | 100100100100 | 100100100100 |              |
| CC        | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100361 |              |
| CC        | R   | 2            | 360362362360 | 360370311324 | 342361100100 | 100100361301 | 302326301331 |
| CC        | 21  | 30410033310  | 305100331141 | 345100331305 | 304326344302 | 343100303331 |              |
| CC        | 41  | 344311342305 | 100331343360 | 370100302305 | 343346305305 | 325100360366 |              |
| CC        | 61  | 141361360141 | 370360100140 | 100360366141 | 362360141370 | 360100100100 |              |
| CC        | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |              |
| CC        | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100362 |              |
| CC        | R   | 3            | 360362362360 | 360370311324 | 342361100100 | 100100361302 | 350100304331 |
| CC        | 21  | 113100302344 | 331331305323 | 323100326306 | 100343310305 | 100311325342 |              |
| CC        | 41  | 343311343344 | 343305100326 | 306100324301 | 331311325305 | 100342303311 |              |
| CC        | 61  | 305325303305 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |              |
| CC        | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |              |
| CC        | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100363 |              |
| CC        | R   | 4            | 360362362360 | 360370311324 | 342361100100 | 100100361343 | 310305331305 |
| CC        | 21  | 100346305331 | 305100301100 | 343326343301 | 323100326306 | 100361360362 |              |
| CC        | 41  | 100342343301 | 343311326325 | 342100311325 | 100343310305 | 100302326303 |              |
| CC        | 61  | 301100304305 | 100330344301 | 304331301100 | 301331305301 | 113100100100 |              |
| CC        | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |              |
| CC        | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100364 |              |
| CC        | R   | 5            | 360362362360 | 360370311324 | 342361100100 | 100100361342 | 343301343311 |
| CC        | 21  | 325325100325 | 344324302305 | 331342100301 | 331305100360 | 361140362365 |              |
| CC        | 41  | 153362367153 | 362371140353 | 361153363363 | 140363365153 | 363370140364 |              |

022008IMS1 1THE U  
 NIVERSITY OF ALASKA  
 IS RESPONSIBLE FOR T  
 HIS DATA WHICH WAS C  
 OLLECTED 1

022008IMS1 1ABOAR  
 D THE R/V REDOUBT CR  
 UISE RT08 BETWEEN 06  
 /10/80 - 06/20/80 2

022008IMS1 1BY DR  
 BURRELL OF THE INS  
 TITUTE OF MARINE SCI  
 ENCE. 3

022008IMS1 1THERE  
 WERE A TOTAL OF 102  
 STATIONS IN THE 80C  
 A DE CUADRA AREA. 4

022008IMS1 1STATI  
 ON NUMBERS ARE 01-25  
 .27.29-31.33-35.38-4

|    |     |               |              |              |              |              |             |
|----|-----|---------------|--------------|--------------|--------------|--------------|-------------|
| 1  | 21  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 2  | 41  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | UNIVERSITY  |
| 3  | 61  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | IS RESPON   |
| 4  | 81  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | HIS DATA    |
| 5  | 101 | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | COLLECTED   |
| 6  | 21  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 7  | 41  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | D THE R/V   |
| 8  | 61  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | UISE RT08   |
| 9  | 81  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | /10/80 TO   |
| 10 | 101 | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | Y DR. BURF  |
| 11 | 21  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 12 | 41  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | E INSTITU   |
| 13 | 61  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | E SCIENCE.  |
| 14 | 81  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 15 | 101 | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | WERE A TC   |
| 16 | 21  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | STATIONS    |
| 17 | 41  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | A DE QUADP  |
| 18 | 61  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 19 | 81  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | ON NUMBERS  |
| 20 | 101 | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | .27.29-31.  |
| 21 | 21  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 0.43-45.46. |
| 22 | 41  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |             |
| 23 | 61  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |             |
| 24 | 81  | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |             |
| 25 | 101 | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |             |

|    |          |               |              |              |              |              |             |
|----|----------|---------------|--------------|--------------|--------------|--------------|-------------|
| 2  | 02/05/81 | UTL2          | REPORT       | 771101       | PAGE         | 2            |             |
| 1  | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 59-76.79-9. |
| 2  | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 3  | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | .103.107.10 |
| 4  | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | .124-132. L |
| 5  | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | TERPOLATED  |
| 6  | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | N STATION   |
| 7  | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 8  | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | O ONLY 27 W |
| 9  | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | STATION 12  |
| 10 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 11 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | ONS WITH O  |
| 12 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | UDE & LONGI |
| 13 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | CATE LOCATI |
| 14 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | OWN.        |
| 15 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 16 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | CORRECTION  |
| 17 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | CRUISE WAS  |
| 18 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | OM REDOUBT  |
| 19 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 08.         |
| 20 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 21 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | CORRECTION  |
| 22 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | STD DATA WA |
| 23 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | BY COMPARI  |
| 24 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | BOTTLE SAM  |
| 25 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 26 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | CORDED VALU |
| 27 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | HE STD SENS |
| 28 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | FIELD CORR  |
| 29 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | BASED CN 2  |
| 30 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 31 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | ES FROM AT  |
| 32 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 02 STATIONS |
| 33 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | LD CORRECTI |
| 34 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | 022008IMS   |
| 35 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |             |

|   |          |               |              |              |              |              |            |
|---|----------|---------------|--------------|--------------|--------------|--------------|------------|
| 2 | 02/05/81 | UTL2          | REPORT       | 771101       | PAGE         | 3            |            |
| 1 | 21       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | EMPERATURE |
| 2 | 41       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 | EN-STD1 IS |
| 3 | 61       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |            |
| 4 | 81       | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |            |
| 5 | 101      | 3603362362360 | 360370311324 | 342361100100 | 100100361343 | 310305100344 |            |

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    |                             | AUG. 79                      | NRCC                                 |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

8100-586

ACCESSION  
NUMBER

# DATA DOCUMENTATION FORM

NOAA FORM 24-13  
14

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2651

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                                                                                                                                                            |                                                 |                                                                                                      |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                           |                                                 |                                                                                                      |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |                               |
|                                                                                                                                                                                                                                                                 |                                                 | RT13                                                                                                 |                               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                             | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                         | 7. DATES                      |
|                                                                                                                                                                                                                                                                 |                                                 | PLATFORM OPERATOR                                                                                    | FROM: MO/DAY/YR TO: MO/DAY/YR |
| MV REDOUBT                                                                                                                                                                                                                                                      | SHIP                                            | USA USA                                                                                              | 11/13/80 11/18/80             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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. |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA<br>                                                                                     |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                 |                                                                                                      |                               |

# B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

## 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>                  | <p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                                                                             |
| <p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>                                                                          | <p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>                                                                                                                                                                                                                                            |
| <p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>                                                                                                                                       | <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 013IMS</p> <p>REDOUBT CRUISE RT13</p> <p>Dr. Burrell</p> <p>11/13/80 - 11/18/80</p> <p>Stations: 01-9, 15, 18, 23, 26, 28-34.</p> <p>9 trk 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 356 BPI</p> <p><input checked="" type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> _____</p> | <p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>5-120 bytes/block</p>                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                            | <p>13. LENGTH OF BYTES IN BITS</p> <p>8 bit bytes</p>                                                                                                                                                                                                                                                                                                 |

RECORD NAME: STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 1078 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
FILE CODE OT FILE NUMBER 1

| CI | 1 | R  | 1   | 360362362360 | 361363311324 | 342361100100 | 100100361343 | 310305100344 |
|----|---|----|-----|--------------|--------------|--------------|--------------|--------------|
|    |   | CC | 21  | 325311345305 | 331342311343 | 350100326306 | 100301323301 | 342322301100 |
|    |   | CC | 41  | 311342100331 | 305342327326 | 325342311302 | 323305100306 | 326331100343 |
|    |   | CC | 61  | 310311342100 | 304301343301 | 100346310311 | 303310100346 | 301342100303 |
|    |   | CC | 81  | 326323323305 | 303343305304 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100361 |
|    |   | R  | 2   | 360362362360 | 361363311324 | 342361100100 | 100100361301 | 302326301331 |
|    |   | CC | 21  | 304100343310 | 305100324141 | 345100331305 | 304326344302 | 343100303331 |
|    |   | CC | 41  | 344311342305 | 100331343361 | 363100302305 | 343346305305 | 325100361361 |
|    |   | CC | 61  | 141361363141 | 370360100140 | 100361361141 | 361370141370 | 360100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100362 |
|    |   | R  | 3   | 360362362360 | 361363311324 | 342361100100 | 100100361302 | 350100304331 |
|    |   | CC | 21  | 113100302344 | 331331305323 | 323100326306 | 100343310305 | 100311325342 |
|    |   | CC | 41  | 343311343344 | 343305100326 | 306100324301 | 331311325305 | 100342303311 |
|    |   | CC | 61  | 305325303305 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100363 |
|    |   | R  | 4   | 360362362360 | 361363311324 | 342361100100 | 100100361343 | 310305331305 |
|    |   | CC | 21  | 100346305331 | 305100301100 | 343326343301 | 323100326306 | 100362361100 |
|    |   | CC | 41  | 342343301343 | 311326325342 | 100311325100 | 343310305100 | 342324305301 |
|    |   | CC | 61  | 343326325100 | 302301350100 | 301331305301 | 113100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100364 |
|    |   | R  | 5   | 360362362360 | 361363311324 | 342361100100 | 100100361343 | 310305100342 |
|    |   | CC | 21  | 343301343311 | 326325100325 | 344324302305 | 331342100301 | 331305100100 |
|    |   | CC | 41  | 361140371153 | 361365153361 | 370153362363 | 153362366153 | 362370140363 |

022013IMS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSTELE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

022013IMS1 1A50AR  
D THE M/V REDOUBT CR  
UISE RT13 BETWEEN 11  
/13/80 - 11/18/80

022013IMS1 1BY DR  
BURRELL OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

022013IMS1 1THERE  
WERE A TOTAL OF 21  
STATIONS IN THE SMEA  
TON BAY AREA.

022013IMS1 1THE S  
TATION NUMBERS ARE  
1-9,15,18,23,26,28-3

7657T 2 04/02/81

UTL2 REPORT 771101

PAGE 2

| CI | 2 | R  | 6   | 360362362360  | 361363311324  | 342361100100  | 100100361343  | 310305331305 |
|----|---|----|-----|---------------|---------------|---------------|---------------|--------------|
|    |   | CC | 21  | 100311342100  | 3253326100342 | 3433304100304 | 1021343301100 | 308326331100 |
|    |   | CC | 41  | 342343301343  | 311326325100  | 351360113100  | 102100100100  | 100100100100 |
|    |   | CC | 61  | 100100100100  | 100100100100  | 100100100100  | 100100100100  | 100100100100 |
|    |   | CC | 101 | 100100100100  | 100100100100  | 100100100100  | 100100100100  | 100100100365 |
|    |   | R  | 7   | 360362362360  | 361363311324  | 342361100100  | 100100361306  | 311305323304 |
|    |   | CC | 21  | 100303326331  | 311305323304  | 311326325100  | 305303301100  | 308326331100 |
|    |   | CC | 41  | 1003033331344 | 311326325100  | 3463061342100 | 3433061342100 | 308326331100 |
|    |   | CC | 61  | 1003033331344 | 311326325100  | 3463061342100 | 3433061342100 | 308326331100 |
|    |   | CC | 81  | 1003033331344 | 311326325100  | 3463061342100 | 3433061342100 | 308326331100 |
|    |   | CC | 101 | 100100100100  | 100100100100  | 100100100100  | 100100100100  | 100100100367 |
|    |   | R  | 8   | 360362362360  | 361363311324  | 342361100100  | 100100361306  | 311305323304 |
|    |   | CC | 21  | 100303326331  | 311305323304  | 311326325100  | 305303301100  | 308326331100 |
|    |   | CC | 41  | 1003033304100 | 304326325301  | 100346310311  | 303310100346  | 301342100303 |
|    |   | CC | 61  | 1003033304100 | 304326325301  | 100346310311  | 303310100346  | 301342100303 |
|    |   | CC | 81  | 1003033304100 | 304326325301  | 100346310311  | 303310100346  | 301342100303 |
|    |   | CC | 101 | 100100100100  | 100100100100  | 100100100100  | 100100100100  | 100100100370 |

4.  
5

022013IMS1 1THERE  
IS NO STD DATA FOR  
STATION 10.

022013IMS1 1FIELD  
CORRECTION FOR T  
CORRECTION FOR T  
C M/V REDOUBT CRUISE  
RT13.

022013IMS1 1FIELD  
CORRECTION FOR T  
STATION 10. 100  
BY COMPARING WITH  
BOTTLE SAMPLE

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|---------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                   |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | SEPT. 80                    |                              | INTER<br>OCEAN                       |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                   |

May 1980 9-7-81

ACCESSION  
NUMBER

DATA DOCUMENTATION FORM

NOAA FORM 74-13  
(4-72)

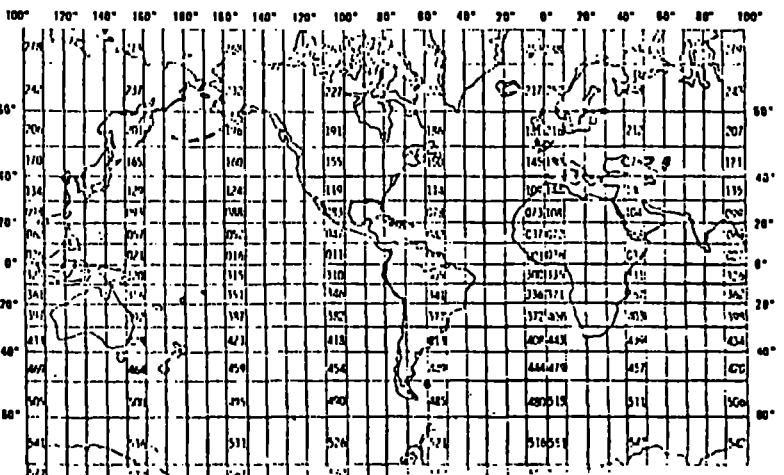
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2651

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.

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|                                                                                                                                                                                                                                                                            |                                                 |                                                                                                         |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------|
| 1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED                                                                                                                                                                       |                                                 |                                                                                                         |               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES.BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                                       |                                                 |                                                                                                         |               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                                        |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                                |               |
|                                                                                                                                                                                                                                                                            |                                                 | RT14                                                                                                    |               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                                        | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                            | 7. DATES      |
| M/V REDOUBT                                                                                                                                                                                                                                                                | SHIP                                            | USA                                                                                                     | USA           |
|                                                                                                                                                                                                                                                                            |                                                 | PLATFORM                                                                                                | OPERATOR      |
|                                                                                                                                                                                                                                                                            |                                                 | USA                                                                                                     | USA           |
|                                                                                                                                                                                                                                                                            |                                                 | FROM: MO/DAY/YR                                                                                         | TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                            |                                                 | 12/05/80                                                                                                | 12/18/80      |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED<br>FOR GENERAL USE? YEAR MONTH                                                                                                        |                                                 | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA<br>CONTAINED IN YOUR SUBMISSION WERE COLLECTED. |               |
| 9. ARE DATA DECLARED NATIONAL<br>PROGRAM (DNF)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD<br>DATA CENTERS HOLDINGS FOR INTERNA-<br>TIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                            |               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING<br>DATA SHOULD BE ADDRESSED WITH TELE-<br>PHONE NUMBER (AND ADDRESS IF OTHER<br>THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                 |                     |               |

# B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

## 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**

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

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

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

**3. ATTRIBUTES AS EXPRESSED IN**

☐ PL-1    ☐ ALGOL    ☐ COBOL  
☒ FORTRAN    ☐ \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

|                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>5. RECORDING MODE</b></p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY<br/> <input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC<br/> <input type="checkbox"/> _____</p>                | <p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH<br/> <input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                                                        |
| <p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN<br/> <input checked="" type="checkbox"/> NINE<br/> <input type="checkbox"/> _____</p>                                                                        | <p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17<br/> <input type="checkbox"/> _____</p>                                                                                                                                                                                                                       |
| <p><b>7. PARITY</b></p> <p><input checked="" type="checkbox"/> ODD<br/> <input type="checkbox"/> EVEN</p>                                                                                                                                   | <p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>022 014IMS<br/> REDOUBT CRUISE RT14<br/> Dr. Burrell<br/> 12/05/80 - 12/18/80<br/> Stations: 1-3, 6, 10, 15, 18, 20, 24-25, 30, 33, 36.<br/> 9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p><b>8. DENSITY</b></p> <p><input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI<br/> <input type="checkbox"/> 556 BPI<br/> <input checked="" type="checkbox"/> 800 BPI<br/> <input type="checkbox"/> _____</p> | <p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b></p> <p>5-120 bytes/block</p> <p><b>13. LENGTH OF BYTES IN BITS</b></p> <p>8 bit bytes</p>                                                                                                                                                                                                |



—



INS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 802 RECORDS  
FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
FILE CODE OT FILE NUMBER 1

| CI | 1 | R  | 1   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305100344 |
|----|---|----|-----|--------------|--------------|--------------|--------------|--------------|
|    |   | CC | 21  | 325311345305 | 331342311343 | 350100326306 | 100301323301 | 342322301100 |
|    |   | CC | 41  | 311342100331 | 305342327326 | 325342311302 | 323305100306 | 326331100343 |
|    |   | CC | 61  | 310311342100 | 304301343301 | 100346310311 | 303310100346 | 301342100303 |
|    |   | CC | 81  | 32632323305  | 303343305304 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100361 |
|    |   | R  | 2   | 360362362360 | 361364311324 | 342361100100 | 100100361301 | 302326301331 |
|    |   | CC | 21  | 304100343310 | 305100331141 | 345100331305 | 304326344302 | 343100303331 |
|    |   | CC | 41  | 344311342305 | 100331343361 | 364100302305 | 343346305305 | 325100361362 |
|    |   | CC | 61  | 141360385141 | 370360100140 | 100361362141 | 361370141370 | 360100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100362 |
|    |   | R  | 3   | 360362362360 | 361364311324 | 342361100100 | 100100361302 | 350100304331 |
|    |   | CC | 21  | 113100302344 | 331331305323 | 323100326306 | 100343310305 | 100311325342 |
|    |   | CC | 41  | 343311343344 | 343305100326 | 306100324301 | 331311325305 | 100342303311 |
|    |   | CC | 61  | 305325303305 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100363 |
|    |   | R  | 4   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305331305 |
|    |   | CC | 21  | 100346305331 | 305100301100 | 343326343301 | 323100326306 | 100361370100 |
|    |   | CC | 41  | 342343301343 | 311326325342 | 100311325100 | 343310305100 | 302326303301 |
|    |   | CC | 61  | 100304305100 | 330344301304 | 331301100120 | 100342324305 | 301343326325 |
|    |   | CC | 81  | 100302301350 | 100301331305 | 301113100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100364 |
|    |   | R  | 5   | 360362362360 | 361364311324 | 342361100100 | 100100361343 | 310305100342 |
|    |   | CC | 21  | 343301343311 | 326325100325 | 342324302305 | 331342100301 | 331305100100 |
|    |   | CC | 41  | 361140363153 | 366153361360 | 153361365153 | 361370153362 | 360153362364 |

0220141MS1 1THE U  
UNIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
LLECTED

1

0220141MS1 1A50AR  
E THE R/V REDOUBT CR  
UISE RT14 BETWEEN 12  
7C5780 - 12/18/80

2

0220141MS1 1BY DR  
J. BURRELL OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

3

0220141MS1 1THERE  
WERE A TOTAL OF 18  
STATIONS IN THE BOCA  
QUADRA 6 SMEATON  
BAY AREA.

4

0220141MS1 1THE S.  
TATION NUMBERS ARE  
1-3.6.10.15.18.20.24

7658T 2 04/02/81

UTL2 REPORT 771101

PAGE 2

| CI | 2 | R  | 6   | 360362362360  | 361364311324 | 342361100100 | 100100361343 | 310305331305 |
|----|---|----|-----|---------------|--------------|--------------|--------------|--------------|
|    |   | CC | 21  | 100311342100  | 325326100342 | 343304100304 | 301343301100 | 306326331100 |
|    |   | CC | 41  | 342343301311  | 326325342100 | 370153361362 | 153361364153 | 363362153100 |
|    |   | CC | 61  | 120100363365  | 113100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 81  | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100366 |
|    |   | R  | 7   | 360362362360  | 361364311324 | 342361100100 | 100100361325 | 326343305100 |
|    |   | CC | 21  | 343310301343  | 100342343301 | 343311326325 | 100363100310 | 301342100323 |
|    |   | CC | 41  | 326343342100  | 326304100311 | 325343305331 | 322326323301 | 343305304100 |
|    |   | CC | 61  | 304301343301  | 100301343100 | 302326343343 | 326326100326 | 306100343100 |
|    |   | CC | 81  | 305100100100  | 326343311300 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100367 |
|    |   | R  | 8   | 360362362360  | 361364311324 | 342361100100 | 100100361306 | 311305323304 |
|    |   | CC | 21  | 1003031326331 | 311305303343 | 311326325100 | 306326331100 | 343310311342 |
|    |   | CC | 41  | 100303131344  | 311326305100 | 346301342100 | 325100303301 | 325100303301 |
|    |   | CC | 61  | 326326100311  | 305304326344 | 302343100303 | 311343311342 | 305100311343 |
|    |   | CC | 81  | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100368 |
|    |   | R  | 9   | 360362362360  | 361364311324 | 342361100100 | 100100361306 | 311305323304 |
|    |   | CC | 21  | 1003031326331 | 311305303343 | 311326325100 | 306326331100 | 343310311342 |
|    |   | CC | 41  | 100303131344  | 311326305100 | 346301342100 | 325100303301 | 325100303301 |
|    |   | CC | 61  | 326326100311  | 305304326344 | 302343100303 | 311343311342 | 305100311343 |
|    |   | CC | 81  | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100100 |
|    |   | CC | 101 | 100100100100  | 100100100100 | 100100100100 | 100100100100 | 100100100369 |

-25.30.33.36.

5

0220141MS1 1THERE  
IS NO STD DATA FOR  
STATIONS 8.12.14.32.  
6.34.

6

0220141MS1 1NOTE  
THAT STATION 3 HAS L  
OTS OF INTERPOLATED  
DATA AT BOTTOM OF TH  
E CASE.

7

0220141MS1 1FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUBT CRUISE RT  
14.

8

0220141MS1 1FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUBT CRUISE RT  
14.

9

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INST-<br>MEN-<br>IS<br>NOT<br>CAL-<br>BRAT<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | SEPT. 80                    |                              | INTER<br>OCEAN                       |                                        |                                  |                                   |                                |                            | .                                                     |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            | .                                                     |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

C DATA FORMAT

ACCESSION  
NUMBER

W 1724

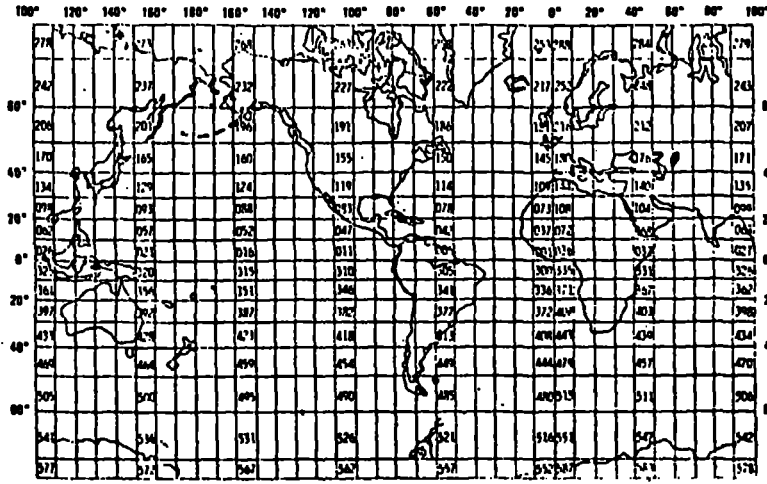
## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

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<br><br>DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.<br>FAIRBANKS, ALASKA 99701                               |                                                             |                                                                                                                          |                                                                |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                             | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br><br>RT15                                     |                                                                |
| 4. PLATFORM NAME(S)<br><br>R/V REDOUBT                                                                                                                                                                                                                          | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br><br>SHIP | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br><br>USA USA                                                              | 7. DATES<br>FROM: MO/DAY/YR TO: MO/DAY/YR<br>01/28/81 02/09/81 |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br><br>GENERAL AREA |                                                                |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                             |                                      |                                                                |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                             |                                                             |                                                                                                                          |                                                                |

# B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1db)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

### 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**

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

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

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

**3. ATTRIBUTES AS EXPRESSED IN**

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐ \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

|                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>5. RECORDING MODE</b></p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>                | <p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH</p> <p><input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                                                         |
| <p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>                                                                        | <p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>                                                                                                                                                                                                                        |
| <p><b>7. PARITY</b></p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>                                                                                                                                     | <p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>022 015IMS</p> <p>REDOUBT CRUISE RT15</p> <p>01/28/81 - 02/09/81</p> <p>Dr. Burrell</p> <p>Stations: 1-4, 12-15, 17, 19, 21, 22, 26, 37.</p> <p>9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p><b>8. DENSITY</b></p> <p><input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> | <p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b></p> <p>5-120 bytes/block</p>                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                 | <p><b>13. LENGTH OF BYTES IN BITS</b></p> <p>8 bit bytes</p>                                                                                                                                                                                                                                                                             |

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br>(e.g., bits, bytes) | 16. LENGTH |                           | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------|---------------------------|----------------|---------------------|
|                                                                                                          |                                                                   | NUMBER     | UNITS                     |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                   |            |                           |                |                     |
|                                                                                                          | 1. Col. 45-49                                                     | Depth      | in meters (I5 to 1/10ths) |                |                     |
|                                                                                                          | 2. Col. 50-53                                                     | Salinity   | in 0/00 (I4 to 1/100ths)  |                |                     |

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and other parameters is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REDOUT:

FILE CODE IN FILE # 1 CONTAINED

850 RECORDS

FILE OF REDOUT

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: RUMP OT  
FILE CODE OT FILE NUMBER 1 15 RECORDS.

| CI | 1   | 1   | 1   | 360362362360 | 361365311324 | 342361100100  | 100100361343  | 310365100344 |  |
|----|-----|-----|-----|--------------|--------------|---------------|---------------|--------------|--|
| CC | 21  | 21  | 21  | 325311345335 | 331342311343 | 350100326306  | 100301023301  | 342322301100 |  |
| CC | 41  | 41  | 41  | 311342100331 | 365342327326 | 325342311302  | 323305100306  | 326331100343 |  |
| CC | 61  | 61  | 61  | 310311342100 | 304301343301 | 100346310311  | 303310100346  | 301342100303 |  |
| CC | 81  | 81  | 81  | 320323323305 | 303343305304 | 100100100100  | 100100100100  | 100100100100 |  |
| CC | 101 | 101 | 101 | 100100100100 | 100100100100 | 100100100100  | 100100100100  | 100100100361 |  |
| CC | 21  | 21  | 21  | 360362362360 | 361365311324 | 342361100100  | 100100361301  | 302326301331 |  |
| CC | 41  | 41  | 41  | 304100343310 | 305100331141 | 345100331305  | 304326344302  | 343100303331 |  |
| CC | 61  | 61  | 61  | 344311342305 | 100331343361 | 365100322305  | 343345305305  | 325100360361 |  |
| CC | 81  | 81  | 81  | 141362370141 | 370361100343 | 326100360362  | 141363371141  | 370361100100 |  |
| CC | 101 | 101 | 101 | 100100100100 | 100100100100 | 100100100100  | 100100100100  | 100100100100 |  |
| CC | 21  | 21  | 21  | 360362362360 | 361365311324 | 342361100100  | 100100361302  | 350100304331 |  |
| CC | 41  | 41  | 41  | 113100303344 | 331331305353 | 323100326306  | 100343310305  | 100311325342 |  |
| CC | 61  | 61  | 61  | 344311342305 | 343305100326 | 306100324301  | 331311325305  | 100342303311 |  |
| CC | 81  | 81  | 81  | 303323303305 | 113100100100 | 100100100100  | 100100100100  | 100100100100 |  |
| CC | 101 | 101 | 101 | 100100100100 | 100100100100 | 100100100100  | 100100100100  | 100100100100 |  |
| CC | 21  | 21  | 21  | 360362362360 | 361365311324 | 342361100100  | 100100361343  | 310305331305 |  |
| CC | 41  | 41  | 41  | 100346305331 | 305100301100 | 343326343301  | 323100326306  | 100311367100 |  |
| CC | 61  | 61  | 61  | 344311342305 | 311326325362 | 100311325100  | 3433103205100 | 30326303301  |  |
| CC | 81  | 81  | 81  | 100304305100 | 330344301304 | 331301100301  | 331305301113  | 100100100100 |  |
| CC | 101 | 101 | 101 | 100100100100 | 100100100100 | 100100100100  | 100100100100  | 100100100100 |  |
| CC | 21  | 21  | 21  | 360362362360 | 361365311324 | 342361100100  | 100100361343  | 310305100342 |  |
| CC | 41  | 41  | 41  | 343304100342 | 343301343311 | 3263225100325 | 344324302305  | 331342100301 |  |
| CC | 61  | 61  | 61  | 331305100100 | 361140364153 | 361362140361  | 365153361367  | 153361371153 |  |

C22C151MS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

C22C151MS1 1ABOAR  
C THE R/V REDOUT CR  
UISE FT15 BETWEEN 01  
/28/81 TO 02/09/81

C22C151MS1 1BY DR  
BUREAU OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

C22C151MS1 1THERE  
WERE A TOTAL OF 17  
STATIONS IN THE BOCA  
DE GUADRA AREA.

C22C151MS1 1THE S  
TATION NUMBERS A  
RE 1-12-15,17,19.

REPORT 2 05/14/81

UTLR

REPORT 77101

PAGE

2

| CI | 2   | 2   | 2   | 360362362360  | 361365311324  | 342361100100  | 100100361343 | 310365100344  |  |
|----|-----|-----|-----|---------------|---------------|---------------|--------------|---------------|--|
| CC | 61  | 61  | 61  | 362361153362  | 362153362366  | 100120100363  | 347113100100 | 100100100100  |  |
| CC | 81  | 81  | 81  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100100  |  |
| CC | 101 | 101 | 101 | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100365  |  |
| CC | 21  | 21  | 21  | 360362362360  | 361365311324  | 342361100100  | 100100361306 | 311305323304  |  |
| CC | 41  | 41  | 41  | 100303325331  | 331305303343  | 311326325100  | 306326331100 | 3053310311342 |  |
| CC | 61  | 61  | 61  | 100303331344  | 311342305100  | 344301342100  | 343301322305 | 305100306331  |  |
| CC | 81  | 81  | 81  | 326324100331  | 305304326344  | 302343100303  | 331301113426 | 305100331342  |  |
| CC | 101 | 101 | 101 | 361365113100  | 100100100100  | 100100100100  | 100100100100 | 100100100100  |  |
| CC | 21  | 21  | 21  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100366  |  |
| CC | 41  | 41  | 41  | 360362362360  | 361365311324  | 342361100100  | 100100361306 | 311305323304  |  |
| CC | 61  | 61  | 61  | 100303326331  | 331305303343  | 311326325100  | 306326331100 | 3053310311342 |  |
| CC | 81  | 81  | 81  | 342343304100  | 304301343301  | 100346301342  | 100306405331 | 305100306331  |  |
| CC | 101 | 101 | 101 | 100302350100  | 303326324327  | 3001331311325 | 307100342311 | 100305323304  |  |
| CC | 21  | 21  | 21  | 100302326343  | 343323305100  | 342323324327  | 303305343100 | 100305323304  |  |
| CC | 41  | 41  | 41  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100367  |  |
| CC | 61  | 61  | 61  | 360362362360  | 361365311324  | 342361100100  | 100100361343 | 310365100344  |  |
| CC | 81  | 81  | 81  | 303326331304  | 3053304100345 | 3001331342305 | 307100342311 | 100305323304  |  |
| CC | 101 | 101 | 101 | 310305100342  | 301342305100  | 344301342100  | 343301322305 | 305100306331  |  |
| CC | 21  | 21  | 21  | 100306311305  | 3233304100303 | 302633331305  | 303100311326 | 100305323304  |  |
| CC | 41  | 41  | 41  | 100302301342  | 3053304100326 | 305100305100  | 100305323304 | 100305323304  |  |
| CC | 61  | 61  | 61  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100368  |  |
| CC | 81  | 81  | 81  | 360362362360  | 361365311324  | 342361100100  | 100100361343 | 310365100344  |  |
| CC | 101 | 101 | 101 | 3053304100345 | 301342305100  | 344301342100  | 343301322305 | 305100306331  |  |
| CC | 21  | 21  | 21  | 367100342343  | 301342305100  | 344301342100  | 343301322305 | 305100306331  |  |
| CC | 41  | 41  | 41  | 304100303326  | 331331305303  | 3033304100326 | 100305323304 | 100305323304  |  |
| CC | 61  | 61  | 61  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100369  |  |
| CC | 81  | 81  | 81  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100370  |  |
| CC | 101 | 101 | 101 | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100371  |  |

21,22,26 & 37.

C22C151MS1 1FIELD  
CORRECTION FOR THIS  
STATION WAS TAKEN TO  
THE REDOUT CRUISE AT  
15.

C22C151MS1 1FIELD  
CORRECTION FOR THIS  
STATION WAS RECEIVED  
BY COMPARING SINGLE  
BOTTLE SAMPLES

C22C151MS1 1TO RE  
TOTAL OF 17  
STATIONS. THE  
FIELD CORRECTION IS  
BASED ON 10

C22C151MS1 1SAMPL  
STATIONS. TOTAL OF 1  
STATIONS. THE  
CORRECTION IS

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATE<br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|--------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                  |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | SEPT. 80                    |                              | INTEROCEAN                           | 1 year                                 |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                  |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NONC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R7

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 ASSOCIATE                                                                                                                                                             |                                                 |                                                                                                      |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA<br>FAIRBANKS, ALASKA 99701                                                                                                                                                               |                                                 |                                                                                                      |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |                               |
|                                                                                                                                                                                                                                                                 |                                                 | RT16                                                                                                 |                               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                             | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                         | 7. DATES                      |
| M/V Redoubt                                                                                                                                                                                                                                                     | SHIP                                            | PLATFORM OPERATOR                                                                                    | FROM: MO/DAY/YR TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                 |                                                 | USA USA                                                                                              | 03/13/81 03/15/81             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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. |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                         |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br>DATA MANAGEMENT, IMS<br>(907) 479-7836 (907) 479-7074                                                                           |                                                 |                                                                                                      |                               |

# 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 |
|--------------------|-------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------|
| SALINITY           | 0.001 ‰                 | NANSEN BOTTLES & INTEROCEAN CASSETTE CTD                             | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |
| TEMPERATURE        | °C                      | DSR THERMOMETERS & INTEROCEAN CASSETTE CTD                           | "                                                                      | N/A                                                     |
| DEPTH              | 0.1m (1m = 1db)         | THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD                         | "                                                                      | N/A                                                     |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

# 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

## THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS:

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

## COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>                     | <p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH<br/><input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                            |
| <p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>                                                                       | <p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17<br/><input checked="" type="checkbox"/> OCTAL 23</p>                                                                                                                                                                                    |
| <p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>                                                                                                                                    | <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>022 016IMS<br/>Redoubt Cruise RT16<br/>Dr. Burrell 03/13/81 - 03/15/81<br/>Stations: 1-2,5-7,9,11,14-15.</p> <p>9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p> | <p>12. PHYSICAL BLOCK LENGTH IN BYTES<br/>5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS<br/>8 bit bytes</p>                                                                                                                                                                                |

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION FROM - 1 MEASURED IN<br>(e.g., bits, bytes) | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING                                                                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|-------|----------------|--------------------------------------------------------------------------------------------------|
|                                                                                                          |                                                          | NUMBER     | UNITS |                |                                                                                                  |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                          |            |       |                | 1. Col. 45-49 Depth in meters (I5 to 1/10ths)<br>2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) |

5232T 2 07/01/81 UTL2 REPORT 771101

PAGE 1

FDEF 14.GPRC,ASCII.  
FDEF OT,INN,HLAS,USER,EJCDC,F120,C1600.  
FORT IN,RECCT.  
PROC REW IN: COPY IN TO OT IF. REW OT. DUMP OT 15R.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REMOVED

FILE CODE IN FILE \* 1 CONTAINED 477 RECORDS

FILE OT REMOVED

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
FILE CODE OT FILE NUMBER 1

| CI | 1   | R  | 1   | 360362362360 | 361366311324 | 342361100100 | 100100361343 | 310305100344 |
|----|-----|----|-----|--------------|--------------|--------------|--------------|--------------|
| CC | 21  | CC | 21  | 325311345305 | 331342311343 | 325311345305 | 100100361343 | 310305100344 |
| CC | 41  | CC | 41  | 311342100331 | 305342327326 | 325311345305 | 100100361343 | 310305100344 |
| CC | 61  | CC | 61  | 310311342100 | 304301363301 | 100346311301 | 100100361343 | 310305100344 |
| CC | 81  | CC | 81  | 325323325305 | 303343305304 | 100100100100 | 100100361343 | 310305100344 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| R  | 2   | R  | 2   | 360362362360 | 361366311324 | 342361100100 | 100100361343 | 310305100344 |
| CC | 21  | CC | 21  | 304100343310 | 305100331141 | 145110324141 | 100100361343 | 310305100344 |
| CC | 41  | CC | 41  | 343100303331 | 344311342305 | 100321343301 | 100100361343 | 310305100344 |
| CC | 61  | CC | 61  | 325100360363 | 141361363141 | 370361100100 | 100100361343 | 310305100344 |
| CC | 81  | CC | 81  | 301100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| R  | 3   | R  | 3   | 360362362360 | 361366311324 | 342361100100 | 100100361343 | 310305100344 |
| CC | 21  | CC | 21  | 113100302344 | 331331305323 | 323100324305 | 100100361343 | 310305100344 |
| CC | 41  | CC | 41  | 343111343344 | 343305100326 | 306130324301 | 100100361343 | 310305100344 |
| CC | 61  | CC | 61  | 305325303305 | 113100100100 | 100100100100 | 100100361343 | 310305100344 |
| CC | 81  | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| R  | 4   | R  | 4   | 360362362360 | 361366311324 | 342361100100 | 100100361343 | 310305100344 |
| CC | 21  | CC | 21  | 100346305321 | 305100301100 | 343326343301 | 100100361343 | 310305100344 |
| CC | 41  | CC | 41  | 342346301343 | 311326323342 | 100311325107 | 100100361343 | 310305100344 |
| CC | 61  | CC | 61  | 343326325100 | 302301350100 | 201311345301 | 100100361343 | 310305100344 |
| CC | 81  | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| CC | 101 | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100361343 | 310305100344 |
| R  | 5   | R  | 5   | 360362362360 | 361366311324 | 342361100100 | 100100361343 | 310305100344 |
| CC | 21  | CC | 21  | 343301343311 | 326324100325 | 344324302405 | 100100361343 | 310305100344 |
| CC | 41  | CC | 41  | 361140362153 | 345140367153 | 371153361361 | 100100361343 | 310305100344 |

022014IMS1 TITLE U  
DIVISION OF ALASKA  
IS RESPONSIBLE FOR  
THIS DATA WHICH WAS C  
OLLECTED

022014IMS1 LADDER  
D THER 2/V 3/V RETOUR  
T C CUSE FT16 RETOUR  
N 03/13/81 - 03/15/8  
1

022014IMS1 DAY D2  
: CUSEL OF THE 123  
TITUTE OF MARINE SCI  
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| 6390755    | 353241 | 00 |
| 6400295    | 322311 | 2  |

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                                 | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                                      |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                           | SEPT. 80                    |                              | INTEROCEAN                           |                                        |                                  |                                   |                                |                            |                                                       |
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| <b>NOTE:</b> ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

ACCESSION  
NUMBER

W 271

# 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  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2051

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                                                                                                                                                                     |                                                 |                                                                                                         |                               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES.BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                                     |                                                 |                                                                                                         |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                                      |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                                |                               |
|                                                                                                                                                                                                                                                                          |                                                 | RT17                                                                                                    |                               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                                      | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                            | 7. DATES                      |
|                                                                                                                                                                                                                                                                          |                                                 | PLATFORM OPERATOR                                                                                       | FROM: MO/DAY/YR TO: MO/DAY/YR |
| R/V REDOUBT                                                                                                                                                                                                                                                              | SHIP                                            | USA USA                                                                                                 | 04/08/81 04/15/81             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED<br>FOR GENERAL USE? YEAR MONTH                                                                                                      |                                                 | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA<br>CONTAINED IN YOUR SUBMISSION WERE COLLECTED. |                               |
| 9. ARE DATA DECLARED NATIONAL<br>PROGRAM (DNP)?<br>I.E., SHOULD THEY BE INCLUDED IN WORLD<br>DATA CENTERS HOLDINGS FOR INTERNA-<br>TIONAL EXCHANGE?<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                            |                               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING<br>DATA SHOULD BE ADDRESSED WITH TELE-<br>PHONE NUMBER (AND ADDRESS IF OTHER<br>THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072 (907) 479-7836                                                                           |                                                 |                                                                                                         |                               |

# 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 |
|--------------------|-------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------|
| SALINITY           | 0.001 ‰                 | NANSEN BOTTLES & INTEROCEAN CASSETTE CTD                             | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |
| TEMPERATURE        | °C                      | DSR THERMOMETERS & INTEROCEAN CASSETTE CTD                           | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |
| DEPTH              | 0.1m (1m = 1db)         | THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD                         | DESCRIPTION OF BASIC PROCESSING ATTACHED                               | N/A                                                     |

### 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

3. ATTRIBUTES AS EXPRESSED IN

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PL-1

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ALGOL

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COBOL

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FORTRAN

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LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>                  | <p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                                                                   |
| <p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>                                                                          | <p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> OCTAL 23</p>                                                                                                                                                                                                                    |
| <p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>                                                                                                                                       | <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>022 017IMS</p> <p>REDOUBT CRUISE RT17</p> <p>Dr. Burrell</p> <p>04/08/81 - 04/15/81</p> <p>Sta: 1-2, 4-5, 7-10, 12, 15, 18, 25-26, 29-30, 32-33, 3</p> <p>9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p> | <p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>5-120 bytes/block</p>                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                            | <p>13. LENGTH OF BYTES IN BITS</p> <p>8 bit bytes</p>                                                                                                                                                                                                                                                                                       |

# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br><br>(e.g., bits, bytes) | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|-------|----------------|---------------------|
|                                                                                                          |                                                                       | NUMBER     | UNITS |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                       |            |       |                |                     |
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IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NONC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

FUNCTION REQUESTED: COPIES IN TO OT 1 FILE.

FUNCTION REQUESTED: DUAL OT 15 RECORDS.

FILE CODE OT FILE NUMBER 1

| FILE CODE | OT  | FILE NUMBER | 1            | 15 RECORDS.  |
|-----------|-----|-------------|--------------|--------------|
| CC        | 1   | 1           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 2   | 2           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 3   | 3           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 4   | 4           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 5   | 5           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |

022017IMS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

1

022017IMS1 1ABOAR  
D THE R/V REDOUST CR  
UISE RT17 BETWEEN 04  
/08/61 - 04/15/81

2

022017IMS1 1BY DR  
SURRELL OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

3

022017IMS1 1THERE  
WERE A TOTAL OF 25  
STATIONS IN THE BOCA  
DE GUADRA AREA.

4

022017IMS1 1THE S  
TATION NUMBERS ARE  
1-5,7-10,12,15-16,18

59577 2 08/08/81

TITLE REPORT 771101

PAGE 2

| FILE CODE | OT  | FILE NUMBER | 1            | 15 RECORDS.  |
|-----------|-----|-------------|--------------|--------------|
| CC        | 61  | 61          | 140361471153 | 362365140362 |
| CC        | 81  | 81          | 140361471153 | 362365140362 |
| CC        | 101 | 101         | 140361471153 | 362365140362 |
| CC        | 2   | 2           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 7   | 7           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 3   | 3           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 4   | 4           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |
| CC        | 5   | 5           | 360362362360 | 361367311324 |
| CC        | 21  | 21          | 360362362360 | 361367311324 |
| CC        | 41  | 41          | 360362362360 | 361367311324 |
| CC        | 61  | 61          | 360362362360 | 361367311324 |
| CC        | 81  | 81          | 360362362360 | 361367311324 |
| CC        | 101 | 101         | 360362362360 | 361367311324 |

-19,25-27,29-30,32-3  
5,39-40.

5

022017IMS1 1THERE  
WAS NO STD DATA FOR  
STATIONS 3,16,19,27  
34-35, & 40.

6

022017IMS1 1THE S  
TD FISH FOR STA. 5 W  
ENT TO ONLY 25 METER  
S DEEP.

7

022017IMS1 1THE S  
TD FISH FOR STA. 12 W  
ENT TO ONLY 25 METER  
S DEEP.

8

022017IMS1 1THE S  
TD FISH FOR STA. 33 W  
ENT TO ONLY 33 METER  
S DEEP.

9

022017IMS1 1FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUST CRUISE  
17.

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|--------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                            |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    |                             | Sept. 80                     |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                            |

ACCESSION  
NUMBER

# DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

FORM APPROVED  
O.M.B. No. 41-R2651

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                                                                                                                                                            |                                                 |                                                                                                      |               |
| DATA MANAGEMENT<br>INSTITUTE OF MARINE SCIENCE<br>UNIVERSITY OF ALASKA, O'NEILL RES.BLDG.<br>FAIRBANKS, ALASKA 99701                                                                                                                                            |                                                 |                                                                                                      |               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED                                                                                                                                                                                             |                                                 | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |               |
|                                                                                                                                                                                                                                                                 |                                                 | RT18                                                                                                 |               |
| 4. PLATFORM NAME(S)                                                                                                                                                                                                                                             | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)                                                         | 7. DATES      |
|                                                                                                                                                                                                                                                                 |                                                 | PLATFORM                                                                                             | OPERATOR      |
| R/V REDOUBT                                                                                                                                                                                                                                                     | SHIP                                            | USA                                                                                                  | USA           |
|                                                                                                                                                                                                                                                                 |                                                 | FROM: MO/DAY/YR                                                                                      | TO: MO/DAY/YR |
|                                                                                                                                                                                                                                                                 |                                                 | 05/03/81                                                                                             | 05/08/81      |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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. |               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |                                                 | GENERAL AREA                                                                                         |               |
| 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br><br>Marcia Boyette<br>(907) 479-9072, (907) 479-7836                                                                            |                                                 |                                                                                                      |               |

# B. SCIENTIFIC CONTENT

| NAME OF DATA FIELD | REPORTING UNITS<br>OR CODE | METHODS OF OBSERVATION AND<br>INSTRUMENTS USED<br>(SPECIFY TYPE AND MODEL) | ANALYTICAL METHODS<br>(INCLUDING MODIFICATIONS)<br>AND LABORATORY PROCEDURES | DATA PROCESSING<br>TECHNIQUES WITH FILTERING<br>AND AVERAGING |
|--------------------|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| SALINITY           | 0.001 ‰                    | NANSEN BOTTLES &<br>INTEROCEAN CASSETTE CTD                                | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| TEMPERATURE        | °C                         | DSR THERMOMETERS &<br>INTEROCEAN CASSETTE CTD                              | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |
| DEPTH              | 0.1m (1m = 1fb)            | THERMOMETRIC DEPTH &<br>INTEROCEAN CASSETTE CTD                            | DESCRIPTION OF BASIC<br>PROCESSING ATTACHED                                  | N/A                                                           |

## 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

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

|                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. RECORDING MODE <input type="checkbox"/> RCD <input type="checkbox"/> BINARY<br/><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC<br/><input type="checkbox"/> _____</p>                  | <p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH<br/><input checked="" type="checkbox"/> .5 - .6 inch</p>                                                                                                                                                                             |
| <p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN<br/><input checked="" type="checkbox"/> NINE<br/><input type="checkbox"/> _____</p>                                                                    | <p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17<br/><input checked="" type="checkbox"/> OCTAL 23</p>                                                                                                                                                                                                     |
| <p>7. PARITY <input checked="" type="checkbox"/> ODD<br/><input type="checkbox"/> EVEN</p>                                                                                                                              | <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)<br/><br/>022 018IMS<br/>REDOUBT CRUISE RT18<br/>05/03/81 - 05/08/81<br/>Dr. Burrell<br/>Stations: 1-2,4-8,10-15,17,19,21-26,28-32,3<br/>9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> |
| <p>8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI<br/><input type="checkbox"/> 556 BPI<br/><input checked="" type="checkbox"/> 900 BPI<br/><input type="checkbox"/> _____</p> | <p>12. PHYSICAL BLOCK LENGTH IN BYTES<br/>5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS<br/><br/>8 bit bytes</p>                                                                                                                                                                                            |

# RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

| 14. FIELD NAME                                                                                           | 15. POSITION<br>FROM - 1<br>MEASURED<br>IN<br>(e.g., bits, bytes)                                | 16. LENGTH |       | 17. ATTRIBUTES | 18. USE AND MEANING |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------|-------|----------------|---------------------|
|                                                                                                          |                                                                                                  | NUMBER     | UNITS |                |                     |
| FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT: |                                                                                                  |            |       |                |                     |
|                                                                                                          | 1. Col. 45-49 Depth in meters (I5 to 1/10ths)<br>2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) |            |       |                |                     |

IMS STD/CTD DATA REDUCTION  
(Interocean)  
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - CALVAL

Data values from the instrument display, taken at the time discrete samples were taken, are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

Extrapolated and interpolated data are so marked (E and \* respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

#### Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

#### Program - NODCF

This program is used to convert the output tape from IOCOUT (IMS STD final format) to an NODC formatted tape for submission for NODC to fulfill contractual obligations.

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.  
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 1122 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.  
FILE CODE OT FILE NUMBER 1

|    |   |    |     |              |              |              |              |              |            |                      |
|----|---|----|-----|--------------|--------------|--------------|--------------|--------------|------------|----------------------|
| CT | 1 | R  | 1   | 360362362360 | 361370311324 | 342361100100 | 100100361343 | 310305100344 | 022018IMS1 | ITHE U               |
|    |   | CC | 21  | 325311345305 | 331342311343 | 350100326306 | 100301323301 | 342322301100 |            | NIVERSITY OF ALASKA  |
|    |   | CC | 41  | 311342100331 | 305342327326 | 325342311302 | 323305100306 | 326331100343 |            | IS RESPONSIBLE FOR T |
|    |   | CC | 61  | 310311342100 | 304301343301 | 100346310311 | 303310100346 | 301342100303 |            | HIS DATA WHICH WAS C |
|    |   | CC | 81  | 326323323305 | 303343305304 | 100100100100 | 100100100100 | 100100100100 |            | OLLECTED             |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100361 |            | 1                    |
|    |   | R  | 2   | 360362362360 | 361370311324 | 342361100100 | 100100361301 | 302326301331 | 022018IMS1 | LABOAR               |
|    |   | CC | 21  | 304100345310 | 305100324141 | 345100331305 | 304326344302 | 343100303331 |            | D THE M/V REDOUST CR |
|    |   | CC | 41  | 344311342305 | 100331343361 | 370100302305 | 343346305305 | 325100360365 |            | UISE RT18 BETWEEN 05 |
|    |   | CC | 61  | 141360363141 | 370361100140 | 100360365141 | 360370141370 | 361100100100 |            | /03/81 - 05/08/81    |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |            | 2                    |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100362 |            |                      |
|    |   | R  | 3   | 360362362360 | 361370311324 | 342361100100 | 100100361302 | 350100304331 | 022018IMS1 | BY DR                |
|    |   | CC | 21  | 113100302344 | 331331305323 | 323100326306 | 100343310305 | 100311325342 |            | SURRELL OF THE INS   |
|    |   | CC | 41  | 343311343344 | 343305100326 | 306100324301 | 331311325305 | 100342303311 |            | TITUTE OF MARINE SCI |
|    |   | CC | 61  | 305325303305 | 113100100100 | 100100100100 | 100100100100 | 100100100100 |            | ENCE.                |
|    |   | CC | 81  | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100100 |            | 3                    |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100363 |            |                      |
|    |   | R  | 4   | 360362362360 | 361370311324 | 342361100100 | 100100361343 | 310305331305 | 022018IMS1 | ITHERE               |
|    |   | CC | 21  | 100346305331 | 305100301100 | 343326343301 | 323100326306 | 100363360100 |            | WERE A TOTAL OF 30   |
|    |   | CC | 41  | 342343301343 | 311326325342 | 100311325100 | 343310305100 | 302326303301 |            | STATIONS IN THE BOCA |
|    |   | CC | 61  | 100304305100 | 330344301304 | 331301100120 | 100342324305 | 301343326325 |            | DE GUADRA & SMEATON  |
|    |   | CC | 81  | 100302301350 | 100301331305 | 301113100100 | 100100100100 | 100100100100 |            | BAY AREA.            |
|    |   | CC | 101 | 100100100100 | 100100100100 | 100100100100 | 100100100100 | 100100100364 |            | 4                    |
|    |   | R  | 5   | 360362362360 | 361370311324 | 342361100100 | 100100361343 | 310305100342 | 022018IMS1 | ITHE 5               |
|    |   | CC | 21  | 343301343311 | 326325100325 | 344324302305 | 331342100301 | 331305100100 |            | TATION NUMBERS ARE   |
|    |   | CC | 41  | 361140362153 | 364140370153 | 361360140361 | 365153361367 | 153361371153 |            | 1-2,4-8,10-15,17,19. |

|       |   |          |      |               |               |               |              |                    |
|-------|---|----------|------|---------------|---------------|---------------|--------------|--------------------|
| 1705T | 2 | 09/01/81 | UTL2 | REPORT        | 771101        | PAGE          | 2            |                    |
|       |   | CC       | 61   | 362361140362  | 366153362370  | 140363362153  | 363364140363 | 365113100100       |
|       |   | CC       | 81   | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100365       |
|       |   |          |      |               |               |               |              | 21-26,28-32,34-35. |
| CT    | 2 | R        | 6    | 360362362360  | 361370311324  | 342361100100  | 100100361342 | 310301323323       |
|       |   | CC       | 21   | 326346100342  | 343304100303  | 301342343342  | 100306326331 | 100342343301       |
|       |   | CC       | 41   | 343311326325  | 342100367153  | 36135153362   | 361153362363 | 140362366153       |
|       |   | CC       | 61   | 362371140363  | 362113100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 81   | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100366       |
|       |   | R        | 7    | 360362362360  | 361370311324  | 342361100100  | 100100361323 | 326343342100       |
|       |   | CC       | 21   | 326308100305  | 347343331301  | 325322323301  | 343311326325 | 342100301343       |
|       |   | CC       | 41   | 100343310305  | 100362305307  | 311325325311  | 325307100326 | 306100342343       |
|       |   | CC       | 61   | 301343311326  | 325100361113  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 81   | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100367       |
|       |   | R        | 8    | 360362362360  | 361370311324  | 342361100100  | 100100361306 | 311305323304       |
|       |   | CC       | 21   | 1003033226331 | 331305303343  | 3113263225100 | 306326331100 | 343310311332       |
|       |   | CC       | 41   | 100303331344  | 3113032305100 | 346301342100  | 343301322302 | 325100306331       |
|       |   | CC       | 61   | 326324100331  | 302304326344  | 302343100303  | 331344311342 | 305100331343       |
|       |   | CC       | 81   | 361370113100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100370       |
|       |   | R        | 9    | 360362362360  | 361370311324  | 342361100100  | 100100361306 | 311305323304       |
|       |   | CC       | 21   | 1003033226331 | 331305303343  | 3113263225100 | 306326331100 | 343310311332       |
|       |   | CC       | 41   | 100303331344  | 3113032305100 | 346301342100  | 343301322302 | 325100306331       |
|       |   | CC       | 61   | 326324100331  | 302304326344  | 302343100303  | 331344311342 | 305100331343       |
|       |   | CC       | 81   | 361370113100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100370       |
|       |   | R        | 10   | 360362362360  | 361370311324  | 342361100100  | 100100361306 | 311305323304       |
|       |   | CC       | 21   | 1003033226331 | 331305303343  | 3113263225100 | 306326331100 | 343310311332       |
|       |   | CC       | 41   | 100303331344  | 3113032305100 | 346301342100  | 343301322302 | 325100306331       |
|       |   | CC       | 61   | 326324100331  | 302304326344  | 302343100303  | 331344311342 | 305100331343       |
|       |   | CC       | 81   | 361370113100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100370       |
|       |   | R        | 11   | 360362362360  | 361370311324  | 342361100100  | 100100361306 | 311305323304       |
|       |   | CC       | 21   | 1003033226331 | 331305303343  | 3113263225100 | 306326331100 | 343310311332       |
|       |   | CC       | 41   | 100303331344  | 3113032305100 | 346301342100  | 343301322302 | 325100306331       |
|       |   | CC       | 61   | 326324100331  | 302304326344  | 302343100303  | 331344311342 | 305100331343       |
|       |   | CC       | 81   | 361370113100  | 100100100100  | 100100100100  | 100100100100 | 100100100100       |
|       |   | CC       | 101  | 100100100100  | 100100100100  | 100100100100  | 100100100100 | 100100100370       |

022018IMS1 ITHE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

022018IMS1 LABOAR  
D THE M/V REDOUST CR  
UISE RT18 BETWEEN 05  
/03/81 - 05/08/81

022018IMS1 BY DR  
SURRELL OF THE INS  
TITUTE OF MARINE SCI  
ENCE.

022018IMS1 ITHERE  
WERE A TOTAL OF 30  
STATIONS IN THE BOCA  
DE GUADRA & SMEATON  
BAY AREA.

022018IMS1 ITHE 5  
TATION NUMBERS ARE  
1-2,4-8,10-15,17,19.

21-26,28-32,34-35.

022018IMS1 ISHALL  
OK STD CRSTS FOR STA  
TIONS 7,15,21,23-26.  
29-32.

022018IMS1 ILOTS  
OF EXTRAPOLATIONS AT  
THE BEGINNING OF ST  
ATION 1.

022018IMS1 IFIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUST CRUISE RT  
15.

022018IMS1 IFIELD  
CORRECTION FOR THE  
STD DATA TAKEN FR  
OM REDOUST CRUISE

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

| INSTRUMENT TYPE<br>(MFR., MODEL NO.)                                                                                                          | DATE OF LAST<br>CALIBRATION | INSTRUMENT WAS CALIBRATED BY |                                      | CHECK ONE:<br>INSTRUMENT IS CALIBRATED |                                  |                                   |                                |                            | INSTRUMENT<br>IS<br>NOT<br>CALI-<br>BRATED<br><br>(✓) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------------------------------|
|                                                                                                                                               |                             | YOUR<br>ORGANIZATION<br>(✓)  | OTHER<br>ORGANIZATION<br>(GIVE NAME) | AT FIXED<br>INTERVALS<br>(✓)           | BEFORE<br>OR<br>AFTER USE<br>(✓) | BEFORE<br>AND<br>AFTER USE<br>(✓) | ONLY<br>AFTER<br>REPAIR<br>(✓) | ONLY<br>WHEN<br>NEW<br>(✓) |                                                       |
| INTEROCEAN<br>CASSETTE CTD                                                                                                                    | Sept. 80                    |                              | INTEROCEAN                           |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
|                                                                                                                                               |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |
| NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION. |                             |                              |                                      |                                        |                                  |                                   |                                |                            |                                                       |

Password:

| accNo   | fleA | refNo  | proj | inst | ship | startDate  | cruise | catId  |
|---------|------|--------|------|------|------|------------|--------|--------|
| 8100586 | F022 | TR7432 | 9999 | 3117 | 32YQ | 1980/12/06 | RT13   | 314976 |
| 8100586 | C022 | 329277 | 9999 | 3117 | 32YQ | 1980/12/06 | TR7432 | 314977 |
| 8100586 | F022 | TR7433 | 9999 | 3117 | 32YQ | 1981/01/29 | RT14   | 314978 |
| 8100586 | C022 | 329278 | 9999 | 3117 | 32YQ | 1981/01/29 | TR7433 | 314979 |
| 8100586 | F022 | TR7431 | 9999 | 3117 | 32YQ | 1980/11/15 | RT15   | 314980 |
| 8100586 | C022 | 329279 | 9999 | 3117 | 32YQ | 1980/11/15 | TR7431 | 314981 |
| 8100586 | F022 | TR7911 | 9999 | 3117 | 32YQ | 1981/03/13 | RT16   | 314982 |
| 8100586 | C022 | 329280 | 9999 | 3117 | 32YQ | 1981/03/13 | TR7911 | 314983 |
| 8100586 | F022 | TR7912 | 9999 | 3117 | 32YQ | 1981/04/09 | RT17   | 314984 |
| 8100586 | C022 | 329281 | 9999 | 3117 | 32YQ | 1981/04/09 | TR7912 | 314985 |
| 8100586 | F022 | TR7913 | 9999 | 3117 | 32YQ | 1981/05/03 | RT18   | 314986 |
| 8100586 | C022 | 329282 | 9999 | 3117 | 32YQ | 1981/05/03 | TR7913 | 314987 |
| 8100586 | F022 | TR8022 | 9999 | 3117 | 32YQ | 1980/06/10 | RT08   | 314988 |
| 8100586 | C022 | 329283 | 9999 | 3117 | 32YQ | 1980/06/10 | TR8022 | 314989 |

(14 rows affected)

Password:

| accNo   | fleA | refNo  | ship | staCnt | recCnt | startDate | endDate  |
|---------|------|--------|------|--------|--------|-----------|----------|
| 8100586 | F022 | TR7432 | 32YQ | 13     | 634    | 80/12/06  | 80/12/16 |
| 8100586 | C022 | 329277 | 32YQ | 13     | 14     | 80/12/06  | 80/12/16 |
| 8100586 | F022 | TR7433 | 32YQ | 13     | 681    | 81/01/29  | 81/02/06 |
| 8100586 | C022 | 329278 | 32YQ | 13     | 15     | 81/01/29  | 81/02/06 |
| 8100586 | F022 | TR7431 | 32YQ | 13     | 830    | 80/11/15  | 80/11/18 |
| 8100586 | C022 | 329279 | 32YQ | 13     | 20     | 80/11/15  | 80/11/18 |
| 8100586 | F022 | TR7911 | 32YQ | 9      | 381    | 81/03/13  | 81/03/15 |
| 8100586 | C022 | 329280 | 32YQ | 9      | 9      | 81/03/13  | 81/03/15 |
| 8100586 | F022 | TR7912 | 32YQ | 22     | 729    | 81/04/09  | 81/04/15 |
| 8100586 | C022 | 329281 | 32YQ | 22     | 19     | 81/04/09  | 81/04/15 |
| 8100586 | F022 | TR7913 | 32YQ | 25     | 624    | 81/05/03  | 81/05/07 |
| 8100586 | C022 | 329282 | 32YQ | 25     | 19     | 81/05/03  | 81/05/07 |
| 8100586 | F022 | TR8022 | 32YQ | 100    | 3652   | 80/06/10  | 80/06/19 |
| 8100586 | C022 | 329283 | 32YQ | 100    | 117    | 80/06/10  | 80/06/19 |

(14 rows affected)