

ACCESSION  
NUMBER

8300043

83 NODC 40-41

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.

TR9418

A. ORIGINATOR IDENTIFICATION

REF 319285

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  
INSTITUTE OF MARINE SCIENCE  
UNIVERSITY OF ALASKA  
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

HX36

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)  
(E.G., SHIP, BUOY, ETC.)

6. PLATFORM AND OPERATOR NATIONALITY(IES)

7. DATES

R/V ALPHA HELIX

SHIP

USA

USA

FROM: MO/DAY/YR  
10/19/82

TO: MO/DAY/YR  
10/25/82

8. ARE DATA PROPRIETARY?

NO  YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR \_\_\_ MONTH \_\_\_

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

GENERAL AREA

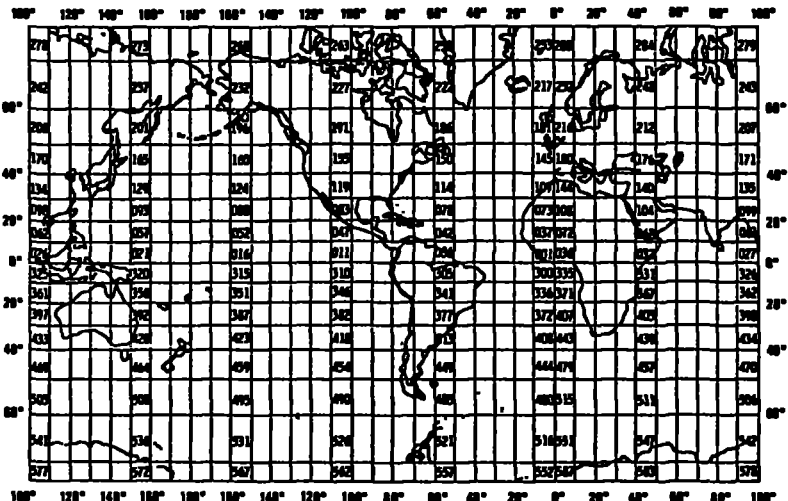
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

NO  YES  PART (SPECIFY BELOW)

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

DATA MANAGEMENT, IMS  
Data Manager  
(907) 474-7836 (907) 474-7074



## IMS STD/CTD DATA REDUCTION

JUNE 1980

### STDCP

Raw 9-track magnetic tapes from the Neil Brown Mark IIIB microprofiler are input. The conductivity is converted to salinity by a relation based on the work of A. S. Bennett (DSR, Vol. 23, No. 2, February 1976).

Output of this program is on 9-track tape and includes entered header data and all STD values from the raw 9-track tape. Output from this program is input for STDAV.

### STDCP PRINT OUT

- 1) Print out the type of "FISH" used.
- 2) Input from 9-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators).

### 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 judgments as to the quality of the field correction data is made at this time.

Output from this program provides input for STDAV.

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 & NEIL BROWN MARK IIIB CTD/O	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O	"	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	"	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 by byte 10:

"1" for Text Record  
"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 Master 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)474-7836  
ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 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  <input type="checkbox"/> ASCII      <input checked="" type="checkbox"/> EBCDIC  <input type="checkbox"/> _____</p> <p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____</p> <p><b>7. PARITY</b></p> <p><input checked="" type="checkbox"/> ODD  <input type="checkbox"/> EVEN</p> <p><b>8. DENSITY</b></p> <p><input type="checkbox"/> 200 BPI      <input type="checkbox"/> 1600 BPI  <input type="checkbox"/> 556 BPI  <input checked="" type="checkbox"/> 800 BPI  <input type="checkbox"/> _____</p>	<p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH  <input checked="" type="checkbox"/> .5 inch - 0.6 inch</p> <p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17  <input checked="" type="checkbox"/> octal 23</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 036IMS                  ALPHA HELIX CRUISE HX36                  10/19/82 - 10/25/82                  Dr. Muench/SAI Sta.1-30.                  9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY</p> <p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b>                  5-120 bytes/block</p> <p><b>13. LENGTH OF BYTES IN BITS</b></p> <p style="text-align: center;">8 bits/byte</p>
--	--

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

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

FDEF IN,GFRC,ASCII.  
FDEF OT,IBM,MLAB,NSER,EBCDIC,F120,C1600.  
FDEF IN,RECCT.  
PAGE REP. IN COPY 11 TO OT 1F. REW OT. DUMP OT 15R.

\*\*\*\*\* 3A ADDITIONAL CORE NEEDED \*\*\*\*\*

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

FILE CODE IN FILE # 1 CONTAINED 1390 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	I	R	1	21	41	61	81	101
				360362362360	363366311324	342361100100	100100361343	310305100344
				325311345305	331342311343	350100326306	100301323301	349322301100
				311342100331	3053342327326	325342311302	323305100306	326331100343
				310311342100	304301343301	100346310311	303310100346	301342100303
				326323323305	303343305304	100100100100	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100361
				360362362360	363366311324	342361100100	100100361301	302326301331
				304100343310	305100331141	345100301323	327310301100	310305323311
				347100303331	344311342305	100310347363	366100302305	343346305305
				325100361360	141361371141	370362100140	100361360141	362365141370
				362100100100	100100100100	100100100100	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100362
				360362362360	363366311324	342361100100	100100361302	350100304331
				113100324344	305325303310	100326306100	342303311305	325303305100
				301327327323	3113303301343	311326325342	153100311325	303113141325
				326331343310	346305342343	113100100100	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100363
				360362362360	363366311324	342361100100	100100361343	310305331305
				100346305331	305100301100	343326343301	323100326306	100363360100
				342343301343	311326325342	100311325100	343310305100	302305331311
				325307100342	305301100301	331305301113	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100100
				100100100100	100100100100	100100100100	100100100100	100100100364
				360362362360	363366311324	342361100100	100100361343	310305100342
				343301343311	326325100325	344324302305	331342100301	331305100100
				361140363360	113100100100	100100100100	100100100100	100100100100

022036IMS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

022036IMS1 1ABOAR  
D THE R/V ALPHA HELI  
X CRUISE HX36 BETWEE  
N 10/19/82 - 10/25/8  
2

022036IMS1 1BY DR  
. MUENCH OF SCIENCE  
APPLICATIONS, INC./N  
ORTHWEST.

022036IMS1 1THERE  
WERE A TOTAL OF 30  
STATIONS IN THE BERI  
NG SEA AREA.

022036IMS1 1THE S  
TATION NUMBERS ARE  
1-30.

### 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 (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION  (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS  (✓)	BEFORE OR AFTER USE  (✓)	BEFORE AND AFTER USE  (✓)	ONLY AFTER REPAIR  (✓)	ONLY WHEN NEW  (✓)	
NEIL BROWN MARK IIIB CTD/O Microprofiler	May 1981		NEIL BROWN						
<b>NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.</b>									

ACCESSION/TRACK # 830043

TR 9419

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	1/17/83	H	W1198	1	600	122	2616
QUADI/SCAN TAPE							
ASSIGNED FOR PROCESS.	1/31/83	H	07446	1	600	122	2601
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"							



## TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8360043

TRACK NO(s): TR 9419

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	W1198	NL	122	600	FB	
Duplicate	07446	SL	122	600	FB	DSN DN.ODX 83NODC 090
Reformatted						
First User						
Final User						

83 NODC 040-02

TR 9419  
REF 319286

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>4/15/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN AND PRINT 200 RECORDS**

PTP 022

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
<i>W1198</i>	<b>07446</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>5L</b>	<b>FB</b>	<b>120</b>	<b>600</b>
INPUT	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD *83 NODC 040-02</b>			PURGE DATE
	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
OUTPUT	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>83042115</b>	<del>4/16/83</del> <b>5/6/83</b>	<del>8:35</del> <b>8:52</b>	<b>7:58</b>	<b>C</b>	<b>MTI - 1 mount</b>

COMMENTS

Completed by E. G. Mason  
Returned tape W1198 to Halminski  
(Bin-33) **5/6/83**

83 NODC 840-1

ACCESSION/TRACK # 8300043

DDF 13:3:11

TR 941E

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	1/17/83	#	W2655	1	600	122	
QUADI/SCAN TAPE							
ASSIGNED FOR PROCESS.	3/2/83	#	8860	1	600	122	1390
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"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8300043

TRACK NO(s): TR 9418

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	W2655	NL	120	600	FB	800 BPI
Duplicate	8860	SL	120	600	FB	1600 BPI
Reformatted						
First User						
Final User						

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMIŃSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>4/15/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN AND PRINT 200 RECORDS**

**FTP 022**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>8860</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>SL</b>	<b>FB</b>	<b>120</b>	<b>600</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DN00*83N0PC040-</b>			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
	<b>4/18/83</b>	<b>8:41</b>	<b>8:46</b>	<b>C</b>	<b>MT1-1 mount</b>

COMMENTS

*Completed by E.G. Mason*

ACCESSION  
NUMBER

83 NODC 40-02 DATA DOCUMENTATION FORM

8300043

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701		TR 9419 REF 319286	
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
		HX35 FID 035IMS	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V ALPHA HELIX	SHIP	USA USA	FROM: MO, DAY, YR TO: MO, DAY, YR
			9/28/82 10/15/82
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) DATA MANAGEMENT, IMS Data Manager (907) 474-7836 (907) 474-7074			

## IMS STD/CTD DATA REDUCTION

JUNE 1980

### STDCP

Raw 9-track magnetic tapes from the Neil Brown Mark IIIB microprofiler are input. The conductivity is converted to salinity by a relation based on the work of A. S. Bennett (DSR, Vol. 23, No. 2, February 1976).

Output of this program is on 9-track tape and includes entered header data and all STD values from the raw 9-track tape. Output from this program is input for STDAV.

### STDCP PRINT OUT

- 1) Print out the type of "FISH" used.
- 2) Input from 9-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators).

### 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 judgments as to the quality of the field correction data is made at this time.

Output from this program provides input for STDAV.

**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 & NEIL BROWN MARK IIIB CTD/O	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O	"	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	"	N/A



## IMS STD/CTD DATA REDUCTION

JUNE 1980

### STDAV

Data from STDCP and CALVAL are input with header information which includes individual station position, time and weather.

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1 m = 1 db) and averaged. Field corrections are added to the one meter averages. (NOTE: depth related data values, are accepted for inclusion in averaging, and only if, depth N is greater than or equal to depth N + 1).

### STDAV PRINT OUT

STDAV print out will include the following in addition to header:

- 1) All header information and corrected data in one meter intervals.
- 2) Field corrections used, to include mean and standard deviation for each parameter.
- 3) Flags indicating interpolated (\*) and/or extrapolated (E) data printed with associated data values.
- 4) Pertinent comments are solicited from the responsible principal investigator and attached to the final print out.

### STDAV OUTPUT TAPE

A tape with one meter averages for Depth, Temperature, Salinity, and Delta-D/per station is generated for data storage and further analysis.

### NODC-F

This program is used to convert the output tape from STDAV (IMS S final format) to an NODC formatted tape for submission to 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 by byte 10:

"1" for Text Record  
"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 Master 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)474-7836  
 ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 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  <input type="checkbox"/> ASCII      <input checked="" type="checkbox"/> EBCDIC  <input type="checkbox"/> _____                 </p>	<p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH  <input checked="" type="checkbox"/> .5 inch - 0.6 inch</p>
<p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p> <input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____                 </p>	<p><b>10. END OF FILE MARK</b></p> <p> <input type="checkbox"/> OCTAL 17  <input checked="" type="checkbox"/> octal 23                 </p>
<p><b>7. PARITY</b></p> <p> <input checked="" type="checkbox"/> ODD  <input type="checkbox"/> EVEN                 </p>	<p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>022 035IMS                      ALPHA HELIX CRUISE HX35                      Dr. Hunt 09/28/82 - 10/15/82                      Stations: 1-18,20-50,52,54-85.                      Bering Sea Area                      9trk,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  <input type="checkbox"/> 556 BPI  <input type="checkbox"/> 800 BPI  <input type="checkbox"/> _____                 </p>	<p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 5-120 bytes/block</p> <p><b>13. LENGTH OF BYTES IN BITS</b> 8 bits/byte</p>

**RECORD FORMAT DESCRIPTION**

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

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

FBI FT. WORTH, TEXAS, DIVISION OF INVESTIGATION, FILE NO. 77-1101.

\*\*\*\*\* ADDITIONAL COPIES FOLLOWS \*\*\*\*\*

FURTHER INFORMATION: 15 RECORDS.

1	360362362360	363365311324	342361100100	100100361343	310305100344	022035IMS1	1THE U
21	325311345305	331342311343	50100326306	100301323301	342322301100	022035IMS1	NIVERSITY OF ALASKA
41	311342100331	305344327326	325342311302	323305100306	326331100343	022035IMS1	IS RESPONSIBLE FOR T
61	310311342100	3043011343301	100346310311	303310100346	301342100303	022035IMS1	HIS DATA WHICH WAS C
81	326323323305	303343305304	100100100100	100100100100	100100100100	022035IMS1	OLLECTED
101	100100100100	100100100100	100100100100	100100100100	100100100361		1
2	360362362360	363365311324	342361100100	100100361301	302326301331	022035IMS1	LABOAR
21	304103343310	305103331141	345100301323	327310301100	310305323311	022035IMS1	D THE R/V ALPHA HELI
41	347105303331	344311342305	100310347363	365100302305	343346305305	022035IMS1	X CRUISE HX35 BETWEE
61	325100371141	362375141370	362100140100	361360141361	365141370362	022035IMS1	N 9/28/82 - 10/15/82
81	100100100100	100100100100	100100100100	100100100100	100100100100		2
101	100100100100	100100100100	100100100100	100100100100	100100100362		
3	360362362360	363365311324	342361100100	100100361302	350100304331	022035IMS1	1BY DR
21	115103310344	325343100326	306100343310	305100344325	311345305331	022035IMS1	HUNT OF THE UNIVER
41	342311343350	100326306100	303301323311	306326331325	311301153100	022035IMS1	SITY OF CALIFORNIA,
61	311331345311	325305113100	100100100100	100100100100	100100100100	022035IMS1	IRVINE.
81	100100100100	100100100100	100100100100	100100100100	100100100100		3
101	100100100100	100100100100	100100100100	100100100100	100100100363		
4	360362362360	363365311324	342361100100	100100361343	310305331305	022035IMS1	1THERE
21	100346305331	305100301100	343326343301	323100326306	100370362100	022035IMS1	WERE A TOTAL OF 82
41	34234331343	311325325342	100311325100	343310305100	302305331311	022035IMS1	STATIONS IN THE BERI
61	325307100342	305301100301	331305301113	100100100100	100100100100	022035IMS1	NG SEA AREA.
81	100100100100	100100100100	100100100100	100100100100	100100100100		4
101	100100100100	100100100100	100100100100	100100100100	100100100364		
5	360362362360	363365311324	342361100100	100100361343	310305100342	022035IMS1	1THE S
21	343301343311	326325100325	344324302305	331342100301	331305100100	022035IMS1	TATION NUMBERS ARE
41	361140361370	153362360140	365360153365	362153365364	140370365113	022035IMS1	1-18,20-50,52,54-85.
61	100100100100	100100100100	100100100100	100100100100	100100100100		5
101	100100100100	100100100100	100100100100	100100100100	100100100365		
6	360362362360	363365311324	342361100100	100100361306	311305323304	022035IMS1	1FIELD
21	100305326331	331305303343	311326325100	306326331100	343310311342	022035IMS1	CORRECTION FOR THIS
41	100303331344	311342305100	346301342100	343301322305	325100306331	022035IMS1	CRUISE WAS TAKEN FR
61	326324100301	323327310301	100310305323	311347100303	331344311342	022035IMS1	OM ALPHA HELIX CRUIS
81	205100310347	363365113100	100100100100	100100100100	100100100100	022035IMS1	E HX35.
101	100100100100	100100100100	100100100100	100100100100	100100100366		6
7	360362362360	363365311324	342361100100	100100361306	311305323304	022035IMS1	1FIELD

### 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 (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
NEIL BROWN MARK IIIB CTD/O Microprofiler	May 1981		NEIL BROWN						
<b>NOTE:</b> ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

DATA SET ROUTE SHEET

ACCESSION/TRACK # TR 9420

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	4/17/83	K	W2558	1	600	120	375
QUADI/SCAN TAPE	4/21/83	K	007447	1	600	120	375
ASSIGNED FOR PROCESS.		K	007447	1	600	120	375
DDF EVALUATION	4/17/83	K					
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.:

TRACK NO(s):

TR 9420

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	W2558	NL	120	600	FB	1600 BPI
Duplicate	007447	SL	120	600	FB	DSN DNOV83N0DC90-03 1600 BPI
Reformatted						
First User						
Final User						

TR9420  
REF # 319287

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>4/15/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN AND PRINT 200 RECORDS** *completed*

*FTP 022*

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>07447</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>5L</b>	<b>F8</b>	<b>120</b>	<b>600</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DN0D *83 NCP 440-03</b>			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>42113</b>	<b>4/18/83</b>			<b>C</b>	<b>MT1 - 1 mount</b>
	<b>5/6/83</b>	<b>7:42</b>	<b>7:45</b>		<b>MT1 - 1 mount</b>

COMMENTS

*Completed by E. G. Viles*



83 NODC 40-43

ACCESSION  
NUMBER

9300043

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-R26

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.

TR 9420

A. ORIGINATOR IDENTIFICATION

REF 319287

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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	
			RT29	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES	
R/V REDOUBT	SHIP	PLATFORM	OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		USA	USA	08/24/82 09/04/82
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.		
		GENERAL AREA		
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)				
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Marcia Boyette (907) 474-7092 (907) 474-7836				

**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  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:  
NAME AND PHONE NUMBER DATA MANAGER (907) 474-7836  
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"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> <u>OCTAL 23</u></p>
<p>7. PARITY <input checked="" type="checkbox"/> ODD <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><u>022029IMS</u> <u>REDOUBT CRUISE RT29</u> <u>Dr. Burrell 08/24/82 - 09/04/82</u> <u>Sta: 2,4,6,8,10,12-19,21,23,28,30,32-34,</u> <u>37-39,41,44,46-57,62,65,67-99.</u> <u>9 trk, 600BPI, EBCDIC, NO LABEL, ODD PARITY</u></p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES <u>5-120 bytes/block</u></p>
	<p>13. LENGTH OF BYTES IN BITS <u>8 bit bytes</u></p>

### RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

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

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.

2266T 1 11/03/82

UTL2

REPORT 771101

PAGE

2

R	7	360362362360	362371311324	342361100100	100100362306	311305323304
CC	21	100305326331	331305303343	311326325100	306326331100	343310311342
CC	41	100303331344	311342305100	346301342100	343301322305	325100306331
CC	61	326324100331	305304326344	302343100303	331344311342	305100331343
CC	81	362371113100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100367
R	8	360362362360	362371311324	342361100100	100100362306	311305323304
CC	21	100305326331	331305303343	311326325100	306326331100	343310305100
CC	41	342343304100	304301343301	100346301342	100304305331	311345305304
CC	61	1003023350100	303326324327	301331311325	307100342311	325307323305
CC	81	100302326343	343323305100	342301324327	323305342100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100370
R	9	360362362360	362371311324	342361100100	100100362343	326100331305
CC	21	303326331304	305304100345	301323344305	342100306331	326324100343
CC	41	310305100342	343304100342	305325342326	331342113100	100343310305
CC	61	100306311305	323304100303	326331331305	303343311326	325100311342
CC	81	100302301342	305304100326	325100371100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100371
R	10	360362362360	362371311324	342361100100	100100362342	301324327323
CC	21	305342100306	331326324100	301100343326	343301323100	326306100370
CC	41	360100342343	301343311326	325342113100	343310305100	306311305323
CC	61	304100303326	331331305303	343311326325	100311342100	100100100100
CC	81	100100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100361360
R	11	360362362360	362371311324	342361100100	100100362100	100100100100
CC	21	100100100100	100100100100	100100100100	100100100100	100100100100
CC	101*	100100100100	100100100100	100100100100	100100100100	100100361361
R	12	360362362360	362371311324	342361100100	100100362100	100100100100
CC	21	100100100100	100100100100	100100100100	100100100100	100100100343
CC	41	305324327305	331301343344	331305100324	305301325115	325301325342
CC	61	305325140342	343304135100	100311342100	100140360113	360363360365
CC	81	371100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100361362
R	13	360362362360	362371311324	342361100100	100100362100	100100100100
CC	21	100100100100	100100100100	100100100100	100100100100	100100100100
CC	41	100100342301	323311325311	343350100324	305301325115	325301325342
CC	61	305325140342	343304135100	100311342100	100140360113	362362364362
CC	81	370100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100361363
R	14	360362362360	362371311324	342362100100	100100362365	365361370360
CC	21	371325361363	360364367364	360346360362	371100311325	343305331100
CC	41	100100362364	367370362100	370362365361	370100360361	100361360100
CC	61	100100100360	100100100100	100100100100	360360100360	100360100100
CC	81	100326303305	301325100303	301342342305	343342305100	100100100100
CC	101	100342302100	100100363100	100362366367	100362364366	100100100100
R	15	360362362360	362371311324	342363100100	100100362100	100100100360
CC	21	361366361364	360362360365	361366361364	366367361100	100100361360
CC	41	361366360362	360362360367	367365361364	371360361100	100100362360

022029IMS1 2FIELD  
CORRECTION FOR THIS  
CRUISE WAS TAKEN FR  
OM REDOUBT CRUISE RT  
29.  
7

022029IMS1 2FIELD  
CORRECTION FOR THE  
STD DATA WAS DERIVED  
BY COMPARING SINGLE  
BOTTLE SAMPLES  
8

022029IMS1 2TO RE  
CORDED VALUES FROM T  
HE STD SENSORS. THE  
FIELD CORRECTION IS  
BASED ON 9  
9

022029IMS1 25AMPL  
ES FROM A TOTAL OF 8  
0 STATIONS. THE FIEL  
D CORRECTION IS  
10

022029IMS1 2  
11

022029IMS1 2  
TEMPERATURE MEAN(NANS  
EN-STD) IS -0.0305  
9  
12

022029IMS1 2  
SALINITY MEAN(NANS  
EN-STD) IS -0.2242  
8  
13

022029IMS2 255180  
9N1304740W029 INTER  
24782 82518 01 10  
0 00 0  
OCEAN CASSETTE  
SB 3 267 246

022029IMS3 2 0  
161402051614671 10  
160202077514901 20

CT 3

FDEF OT,IBM,NLAB,NSER,EBCDIC,F120,CI600.  
PROC DUMP OT 15R.

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

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

FILE CODE	OT	FILE NUMBER	1
CT	1	R	1
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	2
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	3
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	4
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	5
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
CT	2	R	6
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101

022029IMS1 2THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED 1

022029IMS1 2ABOAR  
D THE R/V REDOUBT CR  
UISE RT29 BETWEEN 08  
/24/82 - 09/04/82 2

022029IMS1 2BY DR  
.BURRELL OF THE INST  
ITUTE OF MARINE SCIE  
NCE. 3

022029IMS1 2THERE  
WERE A TOTAL OF 80  
STATIONS IN THE BOCA  
DE CUADRA AREA. 4

022029IMS1 2THE S  
TATION NUMBERS ARE  
2,4,6,8,10,12-19,21,  
23,28,30,32-34,37-39  
,41,44,46-57. 5

022029IMS1 262.65  
.67-.99. THERE WAS NO  
STD DATA FOR STATIO  
NS 5,24-25,29,36,42,  
64 & 101. 6

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



DATA SET ROUTE SHEET

ACCESSION/TRACK # TR 9421

83N0DC 40-44

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	1/17/83	R	W2640	1	600	120	1670
QUADI/SCAN TAPE	1/21/83	R	007755	1	600	120	1670
ASSIGNED FOR PROCESS.	1/21/83	U	007755	1	600	120	1670
DDF EVALUATION	<del>1/17/83</del>	<del>R</del>					
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.:

TRACK NO(s).:

TR9421

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	W2640	KL	120	600	FB	
Duplicate	007755	SL	120	600	FB	DSN DNOD*83NODC046-44
Reformatted						
First User						
Final User						

83 NODE 044-84

ADP FACILITIES REQUEST FORM

USER NAME HRLMINSKI	PHONE # 634-7441	ORG/TASK #	DATE SUBMITTED 4/15/83	DATE DUE	BIN # 33
------------------------	---------------------	------------	---------------------------	----------	-------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN AND PRINT 200 RECORDS**

TR 9421  
 REF # 319288

FTP 022

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	7755	9	1600	ODD	SL	FB	122	600
	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME DNOD * 83 NODE 044-01			PURGE DATE
	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
83042114	5/6/83	7:47 <del>8:15</del> 9:17	7:50	C	MTI - 1 mount

COMMENTS

Completed by E. G. Man

83 NODC 40-44

DATA DOCUMENTATION FORM

8300043

NOAA FORM 24-13  
(4-72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20882

FORM APPROVAL  
O.M.B. No. 41-4

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 reports, public data, and formal data shipments. This may be most easily accomplished by attaching a description of data collection, analysis, and format acceptable in all cases. All

*Resubmission*

TR 9421

DITION

REF 319288

TTALS

THIS SECTION MUST BE COMPLETED

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

DATA MANAGEMENT  
INSTITUTE OF MARINE SCIENCE  
UNIVERSITY OF ALASKA  
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

HX31

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)  
(E.G., SHIP, BUOY, ETC.)

6. PLATFORM AND OPERATOR NATIONALITY(IES)

7. DATES

R/V ALPHA HELIX

SHIP

USA

USA

FROM: MO/DAY/YR

TO: MO/DAY/YR

07/23/82

08/13/82

8. ARE DATA PROPRIETARY?

NO  YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH

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

GENERAL AREA

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

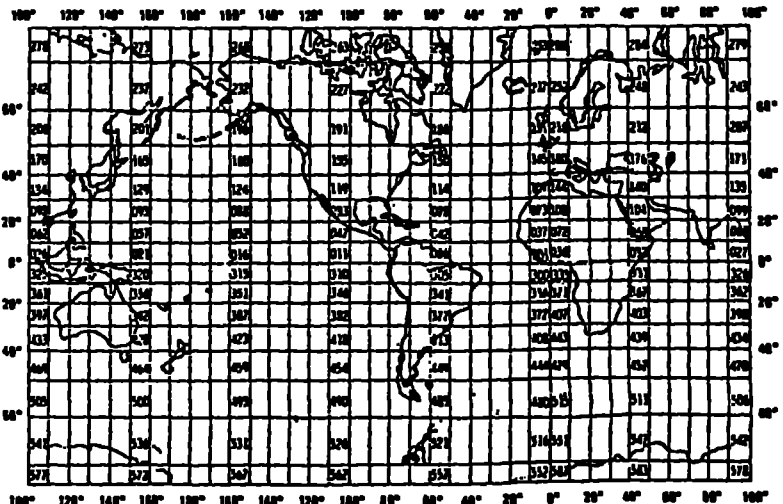
NO  YES  PART (SPECIFY BELOW)

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

(907)

(907) 474-7074

474-7092



### 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 by byte 10:

"1" for Text Record  
"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 Master record, Followed by  
0 to 99,999 Detail records  
  
Repeats

**3. ATTRIBUTES AS EXPRESSED IN**

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL	
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	<input type="checkbox"/> _____	LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER (907)474-7836  
 ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 99701

— COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p><b>5. RECORDING MODE</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input type="checkbox"/> ASCII</td> <td><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table> <p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table> <p><b>7. PARITY</b></p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table> <p><b>8. DENSITY</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<input checked="" type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 3/4 INCH</td> </tr> <tr> <td><input checked="" type="checkbox"/> .5 inch - 0.6 inch</td> </tr> </table> <p><b>10. END OF FILE MARK</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> octal 23</td> </tr> </table> <p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>022 031IMS          ALPHA HELIX CRUISE HX31          Dr. Hunt Bering Sea Area          07/23/82 - 08/13/82          Sta: 1-6, 8-36, 43-64.          9trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> <p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 5-120 bytes/block</p> <p><b>13. LENGTH OF BYTES IN BITS</b> 8 bits/byte</p>	<input type="checkbox"/> 3/4 INCH	<input checked="" type="checkbox"/> .5 inch - 0.6 inch	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> octal 23
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY																							
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC																							
<input type="checkbox"/> _____																								
<input type="checkbox"/> SEVEN																								
<input checked="" type="checkbox"/> NINE																								
<input type="checkbox"/> _____																								
<input checked="" type="checkbox"/> ODD																								
<input type="checkbox"/> EVEN																								
<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI																							
<input type="checkbox"/> 556 BPI																								
<input type="checkbox"/> 800 BPI																								
<input type="checkbox"/> _____																								
<input type="checkbox"/> 3/4 INCH																								
<input checked="" type="checkbox"/> .5 inch - 0.6 inch																								
<input type="checkbox"/> OCTAL 17																								
<input checked="" type="checkbox"/> octal 23																								

DDFF DT. I AM. NI. AH. USER. FRCNIC. F120. C1600.  
PROC DUMP OT 15R.

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

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

FILE CODE	OT	FILE NUMBER	1	15 RECORDS.
C1	1	R	1	360362362360 363361311324 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 363361311324 342361100100 100100361301 302326301331
		CC	21	304100343310 305100331141 345100301323 327310301100 310305323311
		CC	41	347100303331 344311342305 100310347363 361100302305 343346305305
		CC	61	325100360367 141362363141 370362100140 100360370141 361363141370
		CC	81	367100100100 100100100100 100100100100 100100100100 100100100100
CC	101	100100100100 100100100100 100100100100 100100100100 100100100362		
		R	3	360362362360 363361311324 342361100100 100100361302 350100304331
		CC	21	113100310344 325343100306 331326324100 343310305100 344325311345
		CC	41	305331342311 343350100326 306100303301 323311306326 331325311301
		CC	61	100311325100 311331345311 325305113100 100100100100 100100100100
		CC	81	100100100100 100100100100 100100100100 100100100100 100100100100
CC	101	100100100100 100100100100 100100100100 100100100100 100100100363		
		R	4	360362362360 363361311324 342361100100 100100361343 310305331305
		CC	21	100346305331 305100301100 343326343301 323100326306 100366364100
		CC	41	342343301343 311326325342 100311325100 343310305100 302305331311
		CC	61	325307100342 305301100301 331305301113 100100100100 100100100100
		CC	81	100100100100 100100100100 100100100100 100100100100 100100100100
CC	101	100100100100 100100100100 100100100100 100100100100 100100100364		
		R	5	360362362360 363361311324 342361100100 100100361343 310305100342
		CC	21	343301343311 326325100325 344324302305 331342100301 331305100100
		CC	41	361140366364 113100325326 100342343304 100304301343 301100346301
		CC	61	342100343301 322305325100 306326331100 342343301343 311326325342
		CC	81	100367100120 100363367140 364362113100 100100100100 100100100100
CC	101	100100100100 100100100100 100100100100 100100100100 100100100365		
C1	2	R	6	360362362360 363361311324 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 100100100366		

022031IMS1 1THE U  
NIVERSITY OF ALASKA  
IS RESPONSIBLE FOR T  
HIS DATA WHICH WAS C  
OLLECTED

1

022031IMS1 1ABOAR  
D THE R/V ALPHA HELI  
X CRUISE HX31 BETWEE  
N 07/23/82 - 08/13/8  
2

2

022031IMS1 1BY DR  
HUNT FROM THE UNIV  
ERSITY OF CALIFORNIA  
IN IRVINE.

3

022031IMS1 1THERE  
WERE A TOTAL OF 64  
STATIONS IN THE BERI  
NG SEA AREA.

4

022031IMS1 1THE S  
TATION NUMBERS ARE  
1-64. NO STD DATA WA  
S TAKEN FOR STATIONS  
7 & 37-42.

5

022031IMS1 1FIELD  
CORRECTION FOR THE  
STD DATA WAS DERIVED  
BY COMPARING SINGLE  
BOTTLE SAMPLES

6

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

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

**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 & NEIL BROWN MARK IIIB CTD/O	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O		N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O		N/A



## IMS STD/CTD DATA REDUCTION

JUNE 1980

### STDAV

Data from STDCP and CALVAL are input with header information which includes individual station position, time and weather.

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1 m = 1 db) and averaged. Field corrections are added to the one meter averages. (NOTE: depths, and their related data values, are accepted for inclusion in averaging, if and only if, depth N is greater than or equal to depth N + 1).

### STDAV PRINT OUT

STDAV print out will include the following in addition to header and data:

- 1) All header information and corrected data in one meter intervals.
- 2) Field corrections used, to include mean and standard deviation for each parameter.
- 3) Flags indicating interpolated (\*) and/or extrapolated (E) data are printed with associated data values.
- 4) Pertinent comments are solicited from the responsible principle investigator and attached to the final print out.

### STDAV OUTPUT TAPE

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.

### NODC-F

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



ACCESSION/TRACK # 83000 Y3

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
	ORIGINATOR TAPE	1/17/83	A	NO AOF565 6EOWHO	24 24	3500 3500	35 35
QUADI/SCAN TAPE		A	W10382	24	3500	35	
ASSIGNED FOR PROCESS.	5/23/82	A	07758	24	3500	35	35,411
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"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8300043

TRACK NO(s):

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	AOF505	NL	35	3500	FB	800 BPI
	GEOWHO	NL	35	3500	FB	1600 BPI
Duplicate	SOITLAND 07758	SL	35	3500	FB	1600 BPI
	ASHEVILLE W10382 TAPE	SL	35	3500	FB	1600 BPI
Reformatted						
First User						
Final User						

83NODR 036

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>3/28/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN AND LOOK, PRINT 200 RECORDS**

**CTD FORMAT- C139**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>GEOWHO</b>	<b>9</b>	<b>1600</b>		<b>NL</b>		<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>83032803</b>	<b>3/29/83</b>	<b>7:47</b>	<b>7:53</b>	<b>@</b>	<b>MTI-1 mount</b>

COMMENTS

*Completed by E. G. Mason*

*W FTP for "Look" program.*

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI.</b>	PHONE # <b>47441</b>	ORG/TASK #	DATE SUBMITTED <b>1/17/83</b>	DATE DUE	BIN # <b>33</b>
--------------------------------	-------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUB SCAN AND LOCK, ALSO PRINT 200 LINES**

**CTD DATA FORMAT 139**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>R0F505</b>	<b>9</b>	<b>1600</b>				<b>3500</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>83011701</b>	<b>1/19/83</b>	<b>1:59</b>	<b>2:16</b>	<b>C</b>	<b>MT-1 - 1 mount</b>

COMMENTS

*skipped parity errors on MT1 (input tape) Cleared tape still - skipped parity errors. NO FTP given unless it's 036 - invalid record type - found. Completed by E.G. Mason*

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>47441</b>	ORG/TASK #	DATE SUBMITTED <b>1/26/63</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	-------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**COPY TAPE THEN RUN SCAN AND PRINT 200 RECORDS OF THE COPY TAPE**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>A0F505</b>	<b>9</b>	<b>1600</b>		<b>NL</b>		<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	<b>007758</b>	<b>9</b>	<b>1600</b>		<b>SL</b>		<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD * 83NODC 36</b>			PURGE DATE

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

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>83012613</b>	<b>2/17/63</b> <b>CDZ</b>	<b>10:01</b>	<b>10:45</b>	<b>C</b>	<i>Cleaned tapes and tapes read hard. Switch tape drives trying to copy. Copied original to a blank tape. Nothing on input or output tapes</i>

COMMENTS **A SCAN WAS MADE ON ORIGINATOR TAPE A0F505 ON THE MODCOMP AND A NUMBER OF PARITY ERRORS OCCURRED. THIS TAPE WAS TAKEN TO CEAS AND THE TAPE WAS FOUND TO BE OK IF YOU HAVE PROBLEMS AGAIN I'LL HAVE CEAS MAKE A COPY FOR ME**

83 NODC 036

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>3/28/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**RUN SCAN ALSO PRINT 200 LINES**

*Scanned*

**CTD FORMAT-C139**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>A0F505</b>	<b>9</b>	<b>800</b>		<b>NL</b>	<b>FB</b>	<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT								
	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

*9 trk (MTI-800BPI) failed on Scan*

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<i>83 032804</i>	<i>3/29/83</i>	<i>7:57</i>	<i>8:16</i>	<i>C</i>	<i>MTI-1 mount</i>

COMMENTS

*Completed by E.A. Mosh*



5200 # OBSERVATIONS= 1667 PRS. INT.= 2.00 REF. #= 16  
5300  
5400  
5500 KN- 66- 37 DATE: 77- 6- 5 TIME: 1213Z LAT: 33 41.20 LONG: -33 9.39  
5600 # OBSERVATIONS= 1558 PRS. INT.= 2.00 REF. #= 17  
5700  
5800  
5900 KN- 66- 38 DATE: 77- 6- 6 TIME: 1835Z LAT: 33 11.20 LONG: -32 37.80  
7000 # OBSERVATIONS= 1704 PRS. INT.= 2.00 REF. #= 18  
7100  
7200  
7300 KN- 66- 39 DATE: 77- 6- 6 TIME: 30Z LAT: 32 38.90 LONG: -32 5.00  
7400 # OBSERVATIONS= 1826 PRS. INT.= 2.00 REF. #= 19  
7500  
7600  
7700 KN- 66- 40 DATE: 77- 6- 7 TIME: 836Z LAT: 34 0.00 LONG: -38 30.00  
7800 # OBSERVATIONS= 1428 PRS. INT.= 2.00 REF. #= 20  
7900  
8000  
8100 KN- 66- 41 DATE: 77- 6- 7 TIME: 1446Z LAT: 33 56.60 LONG: -38 24.30  
8200 # OBSERVATIONS= 971 PRS. INT.= 2.00 REF. #= 21  
8300  
8400  
8500 KN- 66- 42 DATE: 77- 6- 7 TIME: 1949Z LAT: 33 56.20 LONG: -38 24.20  
8600 # OBSERVATIONS= 1561 PRS. INT.= 2.00 REF. #= 22  
8700  
8800  
8900 KN- 66- 43 DATE: 77- 6- 8 TIME: 18Z LAT: 33 50.30 LONG: -37 55.10  
9000 # OBSERVATIONS= 1298 PRS. INT.= 2.00 REF. #= 23  
9100  
9200  
9300 KN- 66- 44 DATE: 77- 6- 8 TIME: 322Z LAT: 33 56.53 LONG: -38 21.60  
9400 # OBSERVATIONS= 1604 PRS. INT.= 2.00 REF. #= 24  
9500  
9600  
9700 MAX. STATIONS= 24 TOTAL # RECORDS= 24 MISSING STATIONS= 0  
9800 STATION 21 ON 77 6 2 TO STATION 44 ON 77 6 8  
9900 MIN POSITION= 32.65 LT -38.50 LG MAX POS= 38.03 LT -32.08 LG  
0000 STATION TRACK= 1513.8 KM DIAGONAL BOX= 834.4 KM RATIO= 1.8  
0100 SUMMARY ROUTINE STILL BEING DEVELOPED  
0200 ~~KN- 66- 21 DATE: 77- 6- 2 TIME: 1200Z LAT: 38 2.00 LONG: -37 53.20~~  
0300 ~~FILE= <CTD,KN066D001>0021E003.CTD;1 CREATED 29-APR-80 11:18:52 BY ED800~~  
0400  
0500 ~~TE r 2.3414 19.249~~  
0600 ~~SA r 34.908 36.245~~  
0700 ~~DX r 4.0676 6.5610~~  
0800 ~~TS r 1.0000 2771.0~~  
0900 ~~PR N 7.0000 4157.0~~  
1000 # OBSERVATIONS= 2076 PRS. INT.= 2.00 REF. #= 1  
1100  
1200  
1300 KN- 66- 22 DATE: 77- 6- 2 TIME: 1845Z LAT: 37 32.80 LONG: -37 27.10  
1400 FILE= <CTD,KN066D001>0022E004.CTD;1 CREATED 29-APR-80 13:25:28 BY ED800  
1500  
1600 ~~TE r 2.3918 20.200~~  
1700 ~~SA r 34.918 36.215~~  
1800 ~~DX r 4.1719 6.1737~~  
1900 ~~TS r 13.000 305.00~~  
2000 ~~PR N 9.0000 3931.0~~  
2100 # OBSERVATIONS= 1962 PRS. INT.= 2.00 REF. #= 2  
2200

# STATION SUMMARY

100	KN- 66- 21	DATE: 77- 6- 2	TIME: 1200Z	LAT: 38 2.00	LONG: -37 53.20
200	# OBSERVATIONS=	2076	PRS. INT.=	2.00	REF. #= 1
300					
400					
500	KN- 66- 22	DATE: 77- 6- 2	TIME: 1845Z	LAT: 37 32.80	LONG: -37 27.10
600	# OBSERVATIONS=	1962	PRS. INT.=	2.00	REF. #= 2
700					
800					
900	KN- 66- 23	DATE: 77- 6- 2	TIME: 135Z	LAT: 37 2.80	LONG: -36 54.50
000	# OBSERVATIONS=	1928	PRS. INT.=	2.00	REF. #= 3
100					
200					
300	KN- 66- 24	DATE: 77- 6- 3	TIME: 526Z	LAT: 36 49.50	LONG: -36 40.00
400	# OBSERVATIONS=	1752	PRS. INT.=	2.00	REF. #= 4
500					
600					
700	KN- 66- 25	DATE: 77- 6- 3	TIME: 1055Z	LAT: 36 31.80	LONG: -36 25.00
800	# OBSERVATIONS=	1499	PRS. INT.=	2.00	REF. #= 5
900					
000					
100	KN- 66- 26	DATE: 77- 6- 3	TIME: 1535Z	LAT: 36 20.60	LONG: -36 7.80
200	# OBSERVATIONS=	1553	PRS. INT.=	2.00	REF. #= 6
300					
400					
500	KN- 66- 27	DATE: 77- 6- 3	TIME: 2015Z	LAT: 36 6.00	LONG: -35 52.20
600	# OBSERVATIONS=	1437	PRS. INT.=	2.00	REF. #= 7
700					
800					
900	KN- 66- 28	DATE: 77- 6- 3	TIME: 5Z	LAT: 35 51.60	LONG: -35 36.80
000	# OBSERVATIONS=	1235	PRS. INT.=	2.00	REF. #= 8
100					
200					
300	KN- 66- 29	DATE: 77- 6- 4	TIME: 415Z	LAT: 35 37.00	LONG: -35 19.50
400	# OBSERVATIONS=	1313	PRS. INT.=	2.00	REF. #= 9
500					
600					
700	KN- 66- 30	DATE: 77- 6- 4	TIME: 743Z	LAT: 35 22.70	LONG: -35 4.69
800	# OBSERVATIONS=	802	PRS. INT.=	2.00	REF. #= 10
900					
000					
100	KN- 66- 31	DATE: 77- 6- 4	TIME: 1105Z	LAT: 35 8.00	LONG: -34 47.50
200	# OBSERVATIONS=	1269	PRS. INT.=	2.00	REF. #= 11
300					
400					
500	KN- 66- 32	DATE: 77- 6- 4	TIME: 1500Z	LAT: 34 53.00	LONG: -34 32.50
600	# OBSERVATIONS=	1376	PRS. INT.=	2.00	REF. #= 12
700					
800					
900	KN- 66- 33	DATE: 77- 6- 4	TIME: 1850Z	LAT: 34 38.70	LONG: -34 15.40
000	# OBSERVATIONS=	1460	PRS. INT.=	2.00	REF. #= 13
100					
200					
300	KN- 66- 34	DATE: 77- 6- 4	TIME: 2250Z	LAT: 34 25.80	LONG: -33 59.90
400	# OBSERVATIONS=	1577	PRS. INT.=	2.00	REF. #= 14
500					
600					
700	KN- 66- 35	DATE: 77- 6- 5	TIME: 310Z	LAT: 34 10.60	LONG: -33 43.00
800	# OBSERVATIONS=	1673	PRS. INT.=	2.00	REF. #= 15
900					
000					
100	KN- 66- 36	DATE: 77- 6- 5	TIME: 712Z	LAT: 33 54.90	LONG: -33 28.00

ADP FACILITIES REQUEST FORM

USER NAME <b>WALMIWSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>5/10/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**MAKE DUPLICATE SL COPY, THERE ARE 24 FILES, MAKE SCAN OF OUTPUT TAPE**  
*initialized tape* *Q. Copy of Scan SK copy*

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

TAPE INFORMATION								
	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>07758</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>SL</b>	<b>FB</b>	<b>35</b>	<b>3500</b>
	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD * 83 NODC 036</b>			PURGE DATE
OUTPUT	<b>W10382</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>SL</b>	<b>FB</b>	<b>35</b>	<b>3500</b>
	CODE: <b>(ASCII)</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD * 83 NODC 036</b>			PURGE DATE

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

D731 USE ONLY					
JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>8305/100</b>	<b>5/11/83</b>	<b>10:19</b>	<b>10:29</b>	<b>C</b>	<b>MT1-MT2-2 mount</b>

REMARKS  
*Completed by E. G. Mason*

139

ADP FACILITIES REQUEST FORM

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK #	DATE SUBMITTED <b>3/30/83</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	------------	----------------------------------	----------	--------------------

MACHINE JOB IS TO BE DONE ON AND DESCRIBE THE FUNCTIONS TO BE DONE  
**COPY TAPE - RUN SCAN ON OUTPUT AND PRINT 200 RECORDS**

**FILE C139 CTD FORMAT**

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

TAPE INFORMATION

	TAPE #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	BLOCK SIZE
INPUT	<b>GE0VHO</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>NL</b>		<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	<b>07758</b>	<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>SL</b>		<b>35</b>	<b>3500</b>
	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD*83NODC 636</b>			PURGE DATE

SPECIAL INSTRUCTIONS  
**THERE IS DATA ON OUTPUT TAPE BUT WRITE OVER IT ANYWAY.**

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB DONE	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED
<b>83033020</b>	<b>3/31/83</b>	<b>7:46</b>	<b>8:05</b>	<b>C</b>	<b>MT1-MT2-2 mounts</b>

COMMENTS  
**Completed by E. G. Mastor**

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

**83 NODC 036**

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

REFER TO

ATTENTION

Dr. Tony Picciolo

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

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

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

R/V KNORR                      Cr. 66                      June 2-8, 1977                      sta. 21-44

These data are contained on Tape # AOF505 and are in the WHOI exchange format authorized by NODC as acceptable. These data were received from Dr. Terry Joyce, WHOI.

- a) DDF
- b) WHOI Station inventory
- c) Sample tape dump of files 1 and 2
- d) NAPIS RECORD

cc: Dr. Terry Joyce  
Doug Hamilton

*Returned tape to Geo 3/8/83. for checking and to copy.*

*Received original tape AOF505 along with copy tapes having 1600 BPI. 3/29/83.*

FORWARDED BY *[Signature]*  
George Heimerdinger

TITLE  
EDIS Liaison Officer

DATE FORWARDED  
12/30/82

RECEIVED BY (Signature) *[Signature]*

TITLE  
*[Signature]*

DATE RECEIVED  
1/17/83.

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

83 NODC 636

TO: Northeast Liaison Officer  
NESDIS/NOAA Clark Laboratory, WHOI  
Woods Hole, MA 02543

REFER TO  
Phonecon March 8, 1983  
ATTENTION  
George Heimerdinger

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

- ORDINARY MAIL   
  REGISTERED MAIL   
  AIR MAIL   
  CERTIFIED MAIL   
  GOVERNMENT TRUCK   
  BY HAND   
  OTHER  
First Class

I am returning the enclosed tape #AOF505 that we discussed on the telephone. If you find the tape readable and in proper form, please make an extra copy tape and return the two tapes to me. I will send the copy tape to Suitland, where the data can be processed, and bypass our MODCOMP where we have had problems. Also enclosed are copies of your original transmittal and DDF just in case you might need them.

FORWARDED BY (Signature) <i>Sid Halminski</i> Sid Halminski	TITLE Data Coordinator	DATE FORWARDED 3/10/83
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

DATA DOCUMENTATION FORM

83 NODC 036  
TT/686 F022

NOAA FORM 24-13  
(4-77)

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

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED  Dr. Terry Joyce, Woods Hole Oceanographic Institution, Woods Hole, MA 02543			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  R/V KNORR CR. #66	
4. PLATFORM NAME(S)  R/V KNORR	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES)  KNORR USA/WHOI	7. DATES  FROM: MO/DAY/YR TO: MO/DAY/YR June/2/77 June/8/77
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input 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)  Mr. Robert Millard Ms. Nan Galbraith  617-548-1400			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Pressure Temperature Salinity O <sub>2</sub>	Decabars deg. C Parts/thousand Mil/lit.	Neil Brown CTD " " " " " " " " "		Ref: WHOI/Brown CTD microprofiler: methods of calibration and data handling. By N.P. Fofonoff, S.P. Hays, and R.C. Millard, Jr., Dec. 1974. WHOI Report 74-89  Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 1982. WHOI Report 82-37  Ref: CTD Calibration and Data Processing Techniques at WHOI Using the 1978 Practical Salinity Scale. by R.C. Millard, Jr. International STD Conference and Workshop 8-11 Feb. 1982
<hr/> <p>DOCUMENTATION FILE FOR KN 66 21-44                      UPDATED 821126 NRC</p> <hr/> <p>KNORR 66 STATIONS 21-44 FOR TERRY JOYCE, W.H.O.I.  <del>Medwater study on the Mid-Atlantic Ridge</del>                      See 'The Influence of the Mid-Atlantic Ridge upon the circulation and the properties of the Mediterranean Water southwest of the Azores', T. Joyce, Journal of Marine Research, V.39,1,1981</p> <hr/> <p><del>MOST STATIONS APPROXIMATELY 3000 db</del>                      24 STATIONS USING CTD# 4 (NO STATIONS MISSING)  <del>STATION 21 ON 2 JUNE 77 TO STATION 44 ON 8 JUNE 77</del>                      MIN POSITION= 32.65 LT -38.50 LG MAX POS= 38.03 LT -32.08 LG  <del>STATION TRACK= 1513.8 KM DIAGONAL BOX= 834.4 KM RATIO= 1.8</del></p> <hr/>				



### C. DATA FORMAT

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

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

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

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

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

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

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER 617-548-1400    Ms. Nan Galbraith  
 ADDRESS Woods Hole Oceanographic Institution, Woods Hole, MA 02543

**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 checked="" type="checkbox"/> ASCII    <input 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  <input type="checkbox"/> _____</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>    <input type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p><b>7. PARITY</b></p> <p><input 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><i>TAPE # AOF-505</i></p> <p><i>KNORR 66 STA. 21-44 (24 Files)</i></p> <p><i>REC. SIZE 35, ASCII</i></p> <p><i>29 NOV. 82, NAN GALBRAITH, WHOI</i></p> <p><i>900 BPI, 9 TRACK</i></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"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b></p> <p>3500 (35 char. rec. blocked 100)</p> <p><b>13. LENGTH OF BYTES IN BITS</b></p>

RECORD NAME

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

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

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SHIP KN CRUIS 66 STAT: 21 C#: 3 DATE 77- 6- 2 TIME: 1200 Z LAT 36 2.00 LG -37 53.20 MAX. PRS= 4157. DB DEPTH= 5968. M >AVER 2.0 INST 4 RATE 31.00HZ OBS= 2076 FMT(F7.1,2F8.4,F6.2,I6) PRES TEMP SALT OXYG QUAL 7.0 19.2491 36.1420 6.56 583 9.0 19.2472 36.1421 5.27 75 11.0 19.2472 36.1425 5.30 76 13.0 19.2472 36.1426 5.34 131 15.0 19.2477 36.1431 5.28 69 17.0 19.2484 36.1429 5.28 70 19.0 19.2482 36.1420 5.32 119 21.0 19.2466 36.1410 5.29 65 23.0 19.2419 36.1421 5.25 71 25.0 19.2393 36.1458 5.30 97 27.0 19.2378 36.1431 5.30 49 29.0 19.2405 36.1439 5.31 42 31.0 19.2343 36.1461 5.33 111 33.0 19.2074 36.1484 5.32 88 35.0 19.1652 36.1553 5.31 63 37.0 19.1152 36.1576 5.37 135 39.0 18.9682 36.1682 5.38 70 41.0 18.8389 36.1837 5.38 55 43.0 18.5625 36.2002 5.50 167					

WHOI RED system

\$ TY FILE1.DAT

SHIP KN CRUIS 66 STAT: 21 C#: 31

DATE 77- 6- 2 TIME: 1200 Z

LAT 38 2.00 LG -37 53.20

MAX. PRS= 4157. DB DEPTH= 5968. M

MAVER 2.0 INST 4 RATE 31.00HZ

OBS= 2076 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
7.0	19.2491	36.1420	6.56	583
9.0	19.2472	36.1421	5.27	75
11.0	19.2472	36.1425	5.30	76
13.0	19.2472	36.1426	5.34	131
15.0	19.2477	36.1431	5.28	69
17.0	19.2484	36.1429	5.28	70
19.0	19.2482	36.1420	5.32	119
21.0	19.2466	36.1410	5.29	65
23.0	19.2419	36.1421	5.25	71
25.0	19.2393	36.1458	5.30	97
27.0	19.2378	36.1431	5.30	49
29.0	19.2405	36.1439	5.31	42
31.0	19.2343	36.1461	5.33	111
33.0	19.2074	36.1484	5.32	88
35.0	19.1652	36.1553	5.31	63
37.0	19.1152	36.1576	5.37	135
39.0	18.9882	36.1682	5.38	70
41.0	18.8389	36.1837	5.38	55
43.0	18.5625	36.2002	5.50	167
45.0	18.3066	36.2315	5.55	51
47.0	18.0941	36.2371	5.59	45
49.0	17.9844	36.2348	5.65	155
51.0	17.8851	36.2382	5.62	66
53.0	17.8336	36.2419	5.60	50
55.0	17.8078	36.2446	5.63	124
57.0	17.7387	36.2394	5.59	83
59.0	17.6136	36.2328	5.56	67
61.0	17.5566	36.2378	5.60	76
63.0	17.4672	36.2285	5.57	74
65.0	17.3983	36.2361	5.56	119
67.0	17.3112	36.2371	5.45	80
69.0	17.2855	36.2369	5.44	101
71.0	17.2392	36.2424	5.58	61
73.0	17.2239	36.2436	5.36	124
75.0	17.2061	36.2435	5.34	77
77.0	17.1193	36.2316	5.30	65
79.0	17.0919	36.2358	5.31	90
81.0	17.0831	36.2307	5.30	2
83.0	17.0042	36.2299	5.30	56
85.0	16.9807	36.2256	5.18	10
87.0	16.9786	36.2251	5.18	2
89.0	16.9781	36.2246	5.21	1
91.0	16.9314	36.2227	5.17	124
93.0	16.8721	36.2119	5.16	48
95.0	16.8162	36.2028	5.25	90
97.0	16.7526	36.1909	5.21	79
99.0	16.7308	36.1931	5.21	120
101.0	16.7338	36.2118	5.16	54
103.0	16.7106	36.2125	5.13	80
105.0	16.6942	36.2131	5.09	123
107.0	16.6429	36.2055	5.03	76
109.0	16.5920	36.2035	5.03	70
111.0	16.5837	36.2016	5.04	1

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8300043	F022	TT1686	9999	3102	316N	1977/06/02	66	320921
8300043	C022	319394	9999	3102	316N	1977/06/02	TT1686	320922
8300043	C022	319285	9999	31I7	31HX	1982/10/21	TR9418	320913
8300043	C022	319290	9999	31I7	31HX	1982/09/30	TR9419	320914
8300043	C022	319292	9999	31I7	31HX	1982/07/26	TR9421	320916
8300043	F022	TR9418	9999	31I7	31HX	1982/10/21	HX36	320917
8300043	F022	TR9419	9999	31I7	31HX	1982/09/30	HX35	320918
8300043	F022	TR9421	9999	31I7	31HX	1982/07/26	HX31	320920
8300043	C022	329291	9999	31I7	32YQ	1982/08/25	TR9420	320915
8300043	F022	TR9420	9999	31I7	32YQ	1982/08/25	RT29	320919

(10 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8300043	F022	TT1686	316N	24	7093	77/06/02	77/06/08
8300043	C022	319394	316N	24	46	77/06/02	77/06/08
8300043	C022	319285	31HX	30	34	82/10/21	82/10/25
8300043	C022	319290	31HX	81	84	82/09/30	82/10/14
8300043	C022	319292	31HX	57	57	82/07/26	82/08/09
8300043	F022	TR9418	31HX	30	926	82/10/21	82/10/25
8300043	F022	TR9419	31HX	81	1641	82/09/30	82/10/14
8300043	F022	TR9421	31HX	57	1054	82/07/26	82/08/09
8300043	C022	329291	32YQ	72	74	82/08/25	82/09/04
8300043	F022	TR9420	32YQ	72	2852	82/08/25	82/09/04

(10 rows affected)