

03/05/90

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

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Low Resolution STD (C022)

Acc: 8900284 Ref: 319890 - 319890 sta. rec.

C/STD (F022)

Acc: 8900284 Ref: TV4650 - TV4650 99 sta. 1,063 rec.

Univ. of Alaska



cc: Division Director

Unique No.: 190736

Date of Entry: 03/05/90

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY - DINDB)

Accession No.: 8900284                      Reference No.: TV4650  
Former Accession No.:                      Former Reference No.:                      (Resub ONLY)

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Media-In (DINDB):            09 - Digital Magnetic Tape

Exchange Format:            E018 - STD/CTD (F022)

Processing Format:           F022 - CTD/STD

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

Country/Institute Code:        31I7

Country/Platform Code: 31HX

Platform Type (DINDB): 09 - Ship

Orig. Cruise ID: HX-130/1

Cruise Start Date: 09/02/89

Project Code:

Cruise End Date:    09/23/89

Data Use Code (DUC): 3

-----  
Number of Stations:            99

Number of Records:            1,063

If stations/records not appropriate then:

Number:

Units:

-----  
Ocean Area:

Code 1: 12            Meaning: Chukchi Sea

Code 2:                Meaning:

Code 3:                Meaning:

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DINDB Transaction Date:

NO. 8900284

FILETYPE F022

TRACK NO. \_\_\_\_\_

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

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	11/24/89	CMH	A01009	2	120	2400	106
TAPE	12/07/89	CMH	W10456 **	2	120	2400	106
TAPE	3-1-90	R.P.S.	W12533 ***	1	120	2000	106
DISK							
TEXT	3/12/90	CB	SO2DATA, F022TV 4650A	1	120		106
TEXT							
F022	3/14/90	CB	FORMATT. TV 4650A / F022	1	120		106
FINALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: Tape W10456 is 9 TRK, 1600bpi, SL  
 \*\* DSN = DNODC \* 8900284-01

\*\*\* DNODC \* ISHOUT.

ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)  
 NONE

(TRACKS DELETED, FIELDS DELETED, ETC.)

NAME <i>Cliff Hartley</i>	PHONE # <i>673-5436</i>	ORG/TASK # <i>EG12008N3HH9</i>	DATE SUBMITTED <i>12/03/89</i>	DATE DUE <i>ASAP</i>	Q. IN # <i>09</i>
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NUMBER TO BE USED AND FUNCTION TO BE PERFORMED

*Copy to a 'w' tape  
Please scan 'w' tape*

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

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
INPUT	<b>A01009</b>		9	1600	ODD	NL	FB	120	2400	2	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
OUTPUT	<b>W10456</b>		9	1600	ODD	SL	FB	120	2400	2	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <i>DMODC*8900284-01</i>				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS

*Please send 'w' tape to Asheville, N.C.*

ESTIMATED  
EXECUTION  
TIME

FOR USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINT DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIE
<i>11-07-89</i>	<i>11/07/89</i>	<i>13:30</i>	<i>13:40</i>	<i>C</i>	<i>COMPLETED BY EJS</i>

ADP FACILITIES REQUEST FORM

USER NAME <i>Cliff Bartley</i>	PHONE # <i>673-5636</i>	ORG/TASK # <i>EG1200 8N3AH9</i>	DATE SUBMITTED <i>11/24/89</i>	DATE DUE <i>ASAP</i>	BIN # <i>09</i>
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EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

*Please scan tape*

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<i>A01009</i>		<i>9</i>	<i>1600</i>					<i>2400</i>	<i>2</i>
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				PURGE DATE
OUTPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS

*Please return tape A01009 to Bin 09.*

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<i>391124-01</i>	<i>11/24/89</i>	<i>07:30</i>	<i>07:35</i>	<i>C</i>	<i>COMPLETED BY J.S.</i>

REMARKS

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

TO: NODC  
1825 Connecticut Ave NW  
Washington DC 20235

REFER TO HX131  
ATTENTION Francis Mitchell E/0013

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

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

Enclosed is a nine track tape of FT022 data.  
IMS submitted the data, see the station stat sheet attached.

*Please deliver to Mr Mitchell. Thanks  
me*



8900284  
~~XXXXXXXXXX~~ A01009

FORWARDED BY (Signature) Michael L. Crane <i>[Signature]</i> E/0024	TITLE Oceanographer	DATE FORWARDED 11/6/89
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

022 HX131 438 RECORDS 39 STATIONS DATES 890912 THRU 890923  
022 HX130 625 RECORDS 60 STATIONS DATES 890902 THRU 890909  
TOTAL RECORDS= 1063



DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

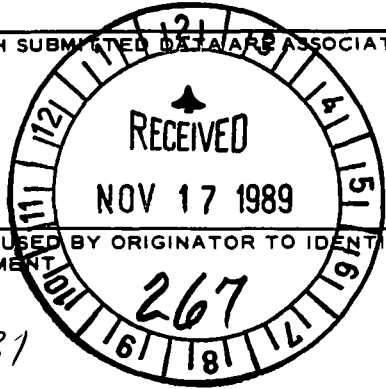
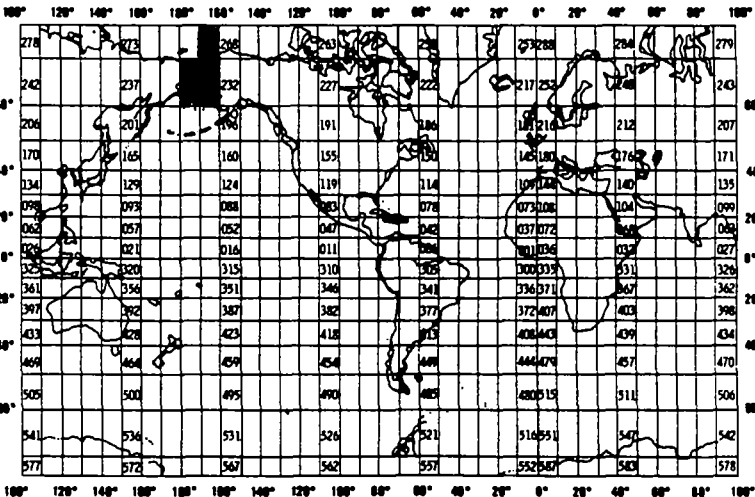
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

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 UNIVERSITY OF ALASKA INSTITUTE OF MARINE SCIENCE DATA MANAGEMENT ROOM 111 O'NEAL BUILDING FAIRBANKS, ALASKA 99701							
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  ISHTAR DDR 8405286		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  HX131					
4. PLATFORM NAME(S)  R/V ALPHA HELIX		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  SHIP		6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR USA USA		7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 09/12/89 09/23/89	
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)  DATA MANAGER (907) 474-7836 (907) 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  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

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

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</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"/> Octal 32</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) <i>022 IMS HX131 AND HX130 2 FILES ON THIS TAPE 9 TRK, 1600 BPI, ASCII, N LABEL, ODD</i></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 20-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 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					

### 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

### 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.

## 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.

### 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 CALIBRATED (✓)
		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 IIIIB CTD/O Microprofiler	5/89		NEIL BROWN	✓					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

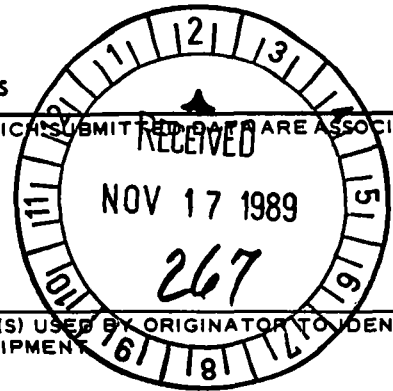
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

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  
 UNIVERSITY OF ALASKA  
 INSTITUTE OF MARINE SCIENCE  
 DATA MANAGEMENT  
 ROOM 111 O'NEAL BUILDING  
 FAIRBANKS, ALASKA 99701

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  
 OFFSHORE CHUKCHI SEA  
 NOAA/MMS

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  
 HX130

4. PLATFORM NAME(S)  
 R/V ALPHA HELIX

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

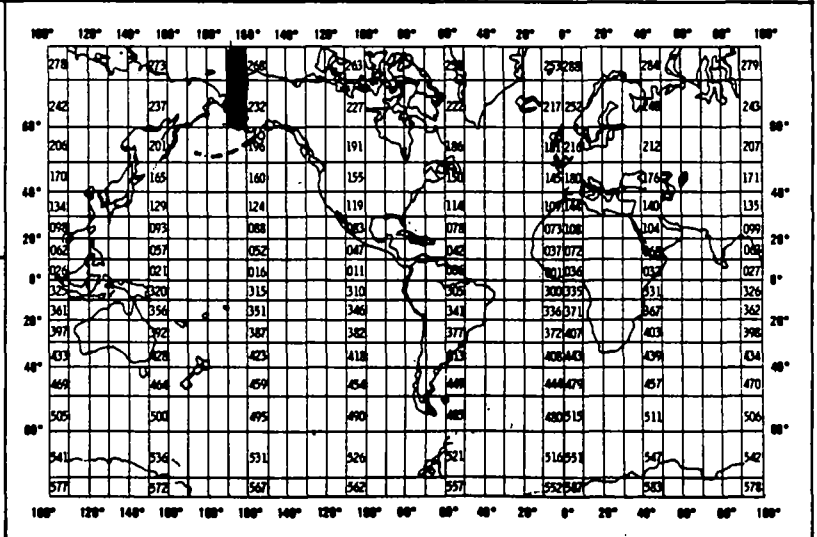
6. PLATFORM AND OPERATOR NATIONALITY(IES)  
 PLATFORM OPERATOR  
 USA USA

7. DATES  
 FROM: MO, DAY, YR TO: MO, DAY, YR  
 09/02/89 09/09/89

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 MANAGER  
 (907) 474-7836  
 (907) 474-7092

C. DATA FORMAT

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

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 University of Alaska, Institute of Marine Science, Fairbanks, Alaska 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 checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</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 <u>8232</u></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><u>022 IMS</u> <u>HX131 AND HX130</u> <u>2 FILES ON THIS TAPE</u> <u>9TRK, 1600BPI, ASCII, N LABEL, ODD</u></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 type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES <u>20-120 bytes/block</u></p> <p>13. LENGTH OF BYTES IN BITS <u>8 bits/byte</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		
FILE TYPE "22" AS FROM THIS TYPE	DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS				

**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

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### STDCP PRINT OUT

- 1) Print out the type of "FISH" used.
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### CALVAL

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### 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 III CTD/O Microprofiler	5/89		NEIL BROWN	✓					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

Unique No.: 190737

Date of Entry: 03/05/90

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY - DINDB)

Accession No.: 8900284                      Reference No.: 319890  
Former Accession No.:                      Former Reference No.:                      (Resub ONLY)

-----  
Media-In (DINDB):      09 - Digital Magnetic Tape  
Exchange Format:      E001 - Low Resolution STD  
Processing Format:      C022 - Low Resolution STD (SD2 Format)

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

Country/Institute Code:      31I7                      Country/Platform Code: 31HX  
Platform Type (DINDB): 09 - Ship                      Orig. Cruise ID: TV4650  
Cruise Start Date: 09/02/89                      Project Code:  
Cruise End Date:      09/23/89                      Data Use Code (DUC): 3

-----  
Number of Stations:      99                      Number of Records:      1,063

    If stations/records not appropriate then:

    Number:                      Units:  
-----

Ocean Area:

    Code 1: 12      Meaning: Chukchi Sea  
    Code 2:      Meaning:  
    Code 3:      Meaning:  
-----

DINDB Transaction Date:

FILETYPE

~~FO22~~

TRACK

M

PROJECT  
IDENTIFICATION

8900284

C022

319890

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	11/24/89	CMH	A01009	2	120	2400	1063
PE	12/07/89	CMH	W10456 **	2	120	2400	1063
TAPE	3-1-90	R.P.S.	W12533 ***	1	120	12000	1063
DISK							
EX							
EX							
22							
REALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: Tape W10456 is 9 TRK, 1600 bpi, SL  
 \*\* DSN = DNODC \* 8900284-01

\*\*\* DNODC \* ISHOUT.

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

PACKS DELETED, FIELDS DELETED, ETC.)

NANSEN REF. #

319890

MILDARS TRACK #

TV4650

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TV4650)

RECORD ALL ERRORS FOUND

CONSEC(S)

23

ERRORS FOUND

Change Day from 5 to 6

*WAF*  
4/26/90

Quality Indicators were applied to one station

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

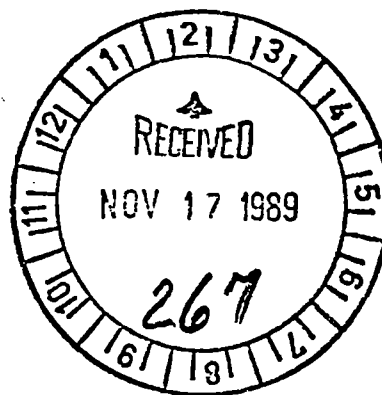
TO: NODC 1825 Connecticut Ave NW Washington DC 20235	REFER TO HX131
	ATTENTION Francis Mitchell <i>E/oc13</i>

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

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

Enclosed is a nine track tape of FT022 data.  
 IMS submitted the data, see the station stat sheet attached.

*Please deliver to Mr  
 Mitchell. Thanks  
 me*



*8900284*  
~~100000~~ *A01009*

FORWARDED BY (Signature) Michael L. Crane <i>[Signature]</i> <i>E/oc24</i>	TITLE Oceanographer	DATE FORWARDED 11/6/89
RECEIVED BY (Signature)	TITLE	DATE REC'D



DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

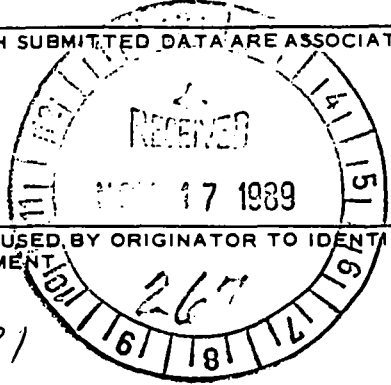
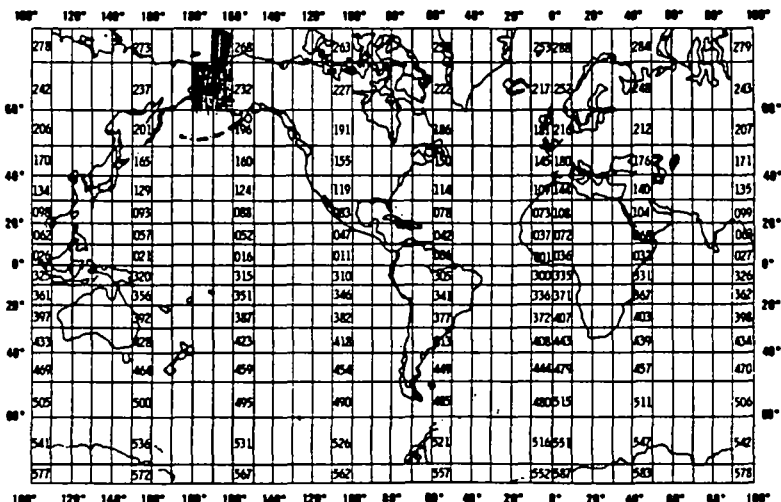
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

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

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>UNIVERSITY OF ALASKA INSTITUTE OF MARINE SCIENCE DATA MANAGEMENT ROOM 111 O'NEAL BUILDING FAIRBANKS, ALASKA 99701</p>					
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>ISHTAR DDR 8405286</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>HX131</p>			
<p>4. PLATFORM NAME(S)</p> <p>R/V ALPHA HELIX</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>SHIP</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <p>USA</p>	<p>7. DATES</p> <p>FROM: MO, DAY, YR TO: MO, DAY, YR</p> <p>09/12/89 09/23/89</p>		
<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p>GENERAL AREA</p> 			
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</p> <p>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>					
<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>DATA MANAGER (907) 474-7836 (907) 474-7092</p>					

C. DATA FORMAT

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

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

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 University of Alaska, Institute of Marine Science, Fairbanks, Alaska 99701.

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII    <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> Octal 32</p>
<p>7. PARITY</p> <p><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 style="font-family: cursive;">OZZIMS HX131 AND HX130 2 FILES ON THIS TAPE 9TRK, 1600 BPI, ASCII, N LABEL, ODD</p>
<p>8. DENSITY</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>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">20-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</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		
FILE TYPE "22" AS FROM THIS TYPE					DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS

**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

### 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.

## 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.

### 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 III CTD/O Microprofiler	5/87		NEIL BROWN	✓					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)

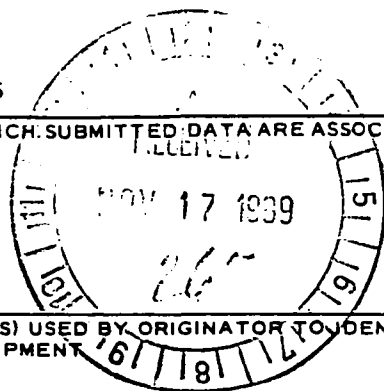
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

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

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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  
UNIVERSITY OF ALASKA  
INSTITUTE OF MARINE SCIENCE  
DATA MANAGEMENT  
ROOM 111 O'NEAL BUILDING  
FAIRBANKS, ALASKA 99701

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  
OFFSHORE CHUKCHI SEA  
NOAA/MMS

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  
HX130

4. PLATFORM NAME(S)  
R/V ALPHA HELIX

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

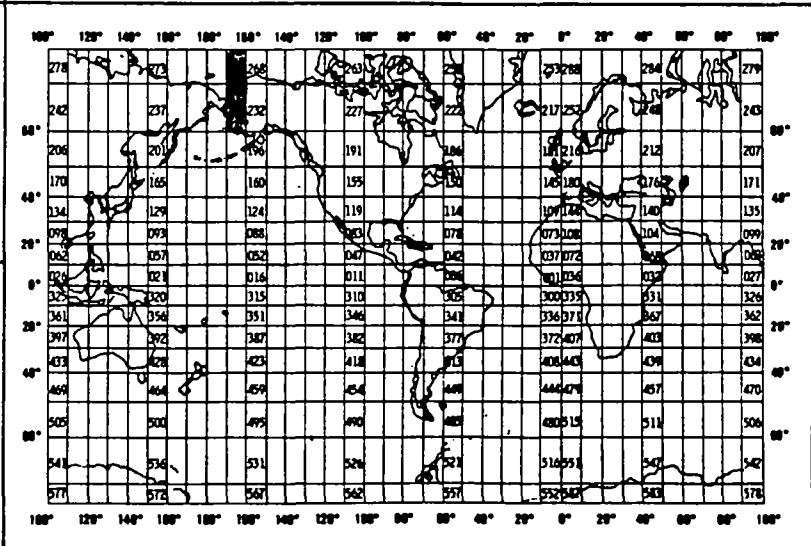
6. PLATFORM AND OPERATOR NATIONALITY(IES)  
PLATFORM OPERATOR  
USA USA

7. DATES  
FROM: MO/PAY/YR TO: MO/DAY/YR  
09/02/89 09/09/89

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 MANAGER  
(907) 474-7836  
(907) 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:

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- "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

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Data Manager (907) 474-7836

ADDRESS University of Alaska, Institute of Marine Science, Fairbanks, Alaska 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 checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</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 <u>232</u></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><u>022 IMS</u> <u>HX131 AND HX130</u> <u>2 FILES ON THIS TAPE</u> <u>9TRK, 1600BPI, ASCII, LABEL, ODD</u></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 type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><u>20 -120 bytes/block</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><u>8 bits/byte</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		
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE					

**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

### 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).

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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 III CTD/O Microprofiler	5/07		NEIL BROWN	✓					
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
8900284	C022	319890	9999	31I7	31HX	1989/09/02	TV4650	189399
8900284	F022	TV4650	9999	31I7	31HX	1989/09/02	HX-130/1	189400

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
8900284	C022	319890	31HX	99	100	89/09/02	89/09/23
8900284	F022	TV4650	31HX	99	1063	89/09/02	89/09/23

(2 rows affected)