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:

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)

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:

DINDB Transaction Date:

8900284

	DATE	INIT.	TAPE OR . DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORI
	11/24/89	cent	A01069	2	120	2400	106
TAPE	12/07/89	cont	w10456**	2	120	2400	106
D TAPE	3-1-90.	R.P.S.	W12533 ***	<u></u>	120	12000	106
2 215K ~.						,	
HEK	3/14/90	CBf	SEZDATA, FOZZTV 4650A	1	120		101
HEK	1						
022	3/14/90	CES	FOREMARY, TV 4650A/ROZZ	(	120		1.06
INALIZED							

\*\* DSN= DNODC \* 8900284-01

XXX DNODCX ISHOUT.

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

TRACKS DELETED, FIELDS DELETED, ETC.)

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	DISKETTE	SLUI #	IRK	DEWOTIL	PARITI	TYPE	TYPE	LENGTH		FILE
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21	i	1 .		. 1			•		CARDS RETTE	11112
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And the forest the second sections

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JOB #	DATE JOB COMPLETED			PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED
	COMPLETED	IIIIE	TIME		DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
$\mathcal{E}_{I_{2}}$	11/24/89	\$7:3P	Φ7:35		COMPLETED BY J.S.
MENIS					

NOAA FORM 24-5 U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TRANSMITTAL AND RECEIPT RECORD (Please sign and return carbon copy acknowledging receipt) NODC : REFER TO NODC HX131 1825 Connecticut Ave NW ATTENTION E/OCi3 Frandics Mitchell Washington DC 20235 THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY ORDINARY REGISTERED CERTIFIED GOVERNMENT X AIR BY HAND OTHER Enclosed is a nine panck tape of FT022 data. IMS submitted the data, see the station stat sheet attached. Please deliver to the Mitschell. Thouks Me



FORWARDED BY (Signature)

Michael L. Crane

E/C24

Oceanographer

TITLE

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

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 COMP					121	
1. NAME AND ADDRESS OF IN		ATORY, O	RACTIVITYWIT	H WHICH SUBM	TED DATALA	ASSOCIATED
UNIVERSITY OF ALAS				$\wedge$	<b>Y</b>	<b>\^7</b>
INSTITUTE OF MARIN	E SCIENCE				RECEIVED	/2/
DATA MANAGEMENT					I/LCEIAED	
ROOM 111 O'NEAL BU				1-1	NOV 17 1	000 [57]
FAIRBANKS, ALASKA						
2. EXPEDITION, PROJECT, O	R PROGRAM DURING	WHICH	3. CRUISE NUM	IBER(S) USED E	Y ORIGINATOR	TO IDENTIFY
DATA WERE GOLDEN					2/7	\~\\
ISHTAR					1401	$\checkmark$
1 JAIN				HX131	6/1191	116
DDR 84052	286					
4. PLATFORM NAME(S)	5. PLATFORM TYPI (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	ND OPERATOR Y(IES)		TES
			PLATFORM	OPERATOR	FROM: MO DAY Y	TO: MO/DAY/YR
R/V ALPHA HELIX	SHIP	SHIP				
	2		USA	USA	09/12/89	09/3/89
					10,7,707	01/01/01
8. ARE DATA PROPRIETARY	?		E DARKEN ALI			
X NO YES		CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.
IF YES, WHEN CAN THE FOR GENERAL USE?				GENERAL AR	REA	
9. ARE DATA DECLARED NA		<u> </u>	<del></del>			
PROGRAM (DNP)?	_	100" 120"	140° 100° 180° 160° 140	* 129* 180* 80* 60*	40" 20" 0" 20"	40° 00° 00° 100°
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS		278	702	Con Co	\$ 253280	204 7 279
TIONAL EXCHANGE?)	, rommer comm	202	237 232	27 22 22	(   C   1753   )	240 PMS 240
NO XYES PART	(SPECIFY BELOW)	206		101	1121	212 207
THO TARE	(SPECIFY BELOW)	170	165 160	1 155	lec uso	2762 0 171
		4. PH 1A	129 124	119 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		20 D3 1	093 088 057 052	007 5 00	073000	200
10. PERSON TO WHOM INQUIRE			021 016	011 50	101036	027
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD		201	320 315 356 3 351	310 35		631 326 667 362
THAN IN ITEM-1)			362 387 363 2 423	382 377 418 / 101	372 407	403 398
DATA MANAGER		40 40	1 may 2 m	54 8 4	<del>}                                    </del>	457 470
(907) 474-7836		505	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 480515	5111 506
1 3			5001        2042			
(907) 474-7092		•••	500 495	<del></del>	<del>}                                    </del>	
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1 ,		541	<del>1                                    </del>	<del></del>	<del>}                                    </del>	
1 '		541 577 100° 120°	<del>1                                    </del>	526 52	1 514551 552547 49° 28° 8° 29°	39 30

## C. DATA FORMAT

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

	S CONTAINED IN THE TRANSMITT DENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
	THREE RECORD TYPES WITH	HIN FILE TYPE 22
	Designated by byte 10:	
	"1" for Text Record "2" for Master Recor "3" for Detail Recor	
GIVE BRIEF DESCR	IPTION OF FILE ORGANIZATION	
	File 22, STD/CTD: 0 to	99,999 Text records, followed by
	1 Mas	ster record, followed by
	0 to	99,999 Detail records
	Repea	ats
	PRESSED IN PL-1  X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Manag	LANGUAGE  ger (907) 474-7836
		titute of Marine Science, Fairbanks, Alaska 99
	SECTION IF DATA ARE ON MAGNI	
RECORDING MODE	BCD BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH
	X ASCII EBCDIC	10. END OF FILE MARK
NUMBER OF TRACE	(S SEVEN	X Octal 32
(0///////223/	X NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
		- OZZIMS
PARITY	X 000	HX131 AND HX130 2 FILES ON THIS TAPE
DENSITY	EVEN	9 TRK, 1600 BPI, ASCII, NLABEL, ODD
	200 BPI X 1600 BPI	
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 20 -120 bytes/block
		13. LENGTH OF BYTES IN BITS
	U	- 8 bits/byte

NOAA FORM 24-13 USCOMM-DC 44289-P72

## RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

TA. FIELD NAME	15. POSITION	16. LEN	GTH	17. ATTRIB	UTES	18. USE A	ND MEANING	
14. FIELD NAME	FROM-1 MEASURED	i						
	IN			†				
	(e.g., bile, bytee)	NUMBER	UNITS					
FILE TYPE "22" AS	DESIGNATI	D BY	CSEP .	and nodc.	THER	ARE NO	O INTENDED	DEVIATIONS
FROM THIS TYPE	(水谷)			1				
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## 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	н	N/A
DEPTH	0.1M (1M = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	11	N/A
			·	
	;			
				,
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#### 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 ("\(\sigma'\)") 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.)				CH INSTRUMEN	INSTRU- MENT IS				
	DATE OF LAST Calibration	YOUR ORGANIZATION (√.)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE ()	ONLY AFTER REPAIR (√)	ONLY WHEN NEW	
EIL BROWN MARK IIIE TD/O Microprofiler	5/89.	14.	NEIL BROWN		· · · · · · · · · · · · · · · · · · ·	\ <b>V</b> ,	, <b>, ,</b> ,		
·									<u> </u>
	<u></u>								· · · · ·
	O UNITS ARE FIE		Y COMPARISON W	TH DISCRE	TE SAMPLES	TO INCREASE	ACCURAC	OVER	

## 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. ORIC	SINATOR	IDENTIFICAT	ION	11121/13	$\rightarrow$	
THIS SECTION MUST BE COMP				/^\		$\langle \rangle$	
UNIVERSITY OF ALAS INSTITUTE OF MARIN DATA MANAGEMENT ROOM 111 O'NEAL BU FAIRBANKS, ALASKA	KA E SCIENCE ILDING 99701				10V 17 1989 247	151/6	
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH	DATA IN TH	BER(S) USED	6/ TOTAL	TO DENTIFY	
OFFSHORE CHI		1X130	7181	·			
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	AND OPERATOR 'Y(IES)	7. DA	TES	
			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR	
R/V ALPHA HELIX	SHIP		USA	USA	09/02/89	09/09/89	
8. ARE DATA PROPRIETARY	?				UARES IN WHICE		
X NO YES		ţ				Ţ	
IF YES, WHEN CAN TH			GENERAL AREA				
FOR GENERAL USE? YEAR MONTH  9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?  (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?)  NO YES PART (SPECIFY BELOW)  44			237 238 238 239 239 239 239 239 239 239 239 239 239	227 227 227 227 227 227 227 227 227 227	073008 037072	200	
10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-I)  DATA MANAGER  (907) 474-7836  (907) 474-7092	SED WITH TELE-	10 23 23 23 23 23 23 23 23 23 23 23 23 23	221 016 2320 315 356 335 927 387 428 423 429 425 500 655 500 655 536 531 572 567 166° 166° 166° 166	011 589 346 34 342 377 418 92 454 44 470 470 48 520 521 542 551	377 407 408 40 444 479 316 53 5 516 53 5 48° 28° 6° 28°	103	

## C. DATA FORMAT

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

	THREE RECORD TYPES WI	THIN FILE TYPE 22
	Designated by byte 10	:
	"1" for Text Recor	
	"2" for Master Rec	ord
	"3" for Detail Rec	ord
GIVE BRIEF DESCR	RIPTION OF FILE ORGANIZATION	
	File 22, STD/CTD: 0 to	o 99,999 Text records, followed by
	1 M	aster record, followed by
	0 t	o 99,999 Detail records
	Rep	eats
		•
		•
ATTRIBUTES AS E	XPRESSED IN PL-1	ALGOL COBOL
ATTRIBUTES AS E	XPRESSED IN PL-1	ALGOL COBOL LANGUAGE
	<b>=</b>	
RESPONSIBLE COM	X FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.	LANGUAGE ager (907) 474~7836
. RESPONSIBLE COM NAME AN ADDRESS	X FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I	LANGUAGE  ager (907) 474-7836  nstitute of Marine Science, Fairbanks, Alaska 99
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI	FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I	LANGUAGE  ager (907) 474~7836  Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  19. LENGTH OF INTER-
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI	FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I:  IS SECTION IF DATA ARE ON MAG.  BCD BINARY	LANGUAGE  ager (907) 474-7836  nstitute of Marine Science, Fairbanks, Alaska 99
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI	FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I	LANGUAGE  ager (907) 474~7836  Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  19. LENGTH OF INTER-
RESPONSIBLE COMPANDED THE RECORDING MODE	FORTRAN  APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC	ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK
RESPONSIBLE COMPLETE THE	APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC	ager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$232  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
RESPONSIBLE COMPANDESS  COMPLETE THE RECORDING MODE	APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I:  IS SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC  CKS SEVEN	ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal 8232  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
RESPONSIBLE COMPLETE THE RECORDING MODE  NUMBER OF TRAC (CHANNELS)	APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I:  IS SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC  CKS SEVEN  X NINE	ager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$232  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
RESPONSIBLE COMPLETE THE RECORDING MODE  NUMBER OF TRAC (CHANNELS)	APUTER SPECIALIST:  ND PHONE NUMBER Data Man.  S University of Alaska, I:  IS SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC  CKS SEVEN	ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 99  Institute of Marine Science, Fairban
RESPONSIBLE COMPLETE THE RECORDING MODE  NUMBER OF TRACTOR (CHANNELS)	APUTER SPECIALIST:  IND PHONE NUMBER Data Man.  IS University of Alaska, I:  IS SECTION IF DATA ARE ON MAGE  BCD BINARY  X ASCII EBCDIC  X NINE  X ODD EVEN	ager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 99  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$237  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  OZZ IMS HX 13   AND HX 13 0
RESPONSIBLE COMPLETE THE RECORDING MODE  NUMBER OF TRACE (CHANNELS)	APUTER SPECIALIST:  IND PHONE NUMBER Data Man.  IS University of Alaska, I:  IS SECTION IF DATA ARE ON MAGE  BCD BINARY  X ASCII EBCDIC  CKS SEVEN  X NINE  200 BPI X 1600 BPI	ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 99  Institute of Marine Science, Fairban
. RESPONSIBLE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE THE COMPLETE COMPLICATION COMPLETE COM	APUTER SPECIALIST:  IND PHONE NUMBER Data Man.  S University of Alaska, I:  IS SECTION IF DATA ARE ON MAGE  BCD BINARY  X ASCII EBCDIC  CKS SEVEN  X NINE  200 BPI X 1600 BPI  556 BPI	ager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 9  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$232  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE. VOLUME NUMBER)  OZZ IM S  HX 13   AND HX 13 O  Z FILES ON THIS TAPE  9 TRK, 1600BPI, ASCII, NLABEL, 6DD  12. PHYSICAL BLOCK LENGTH IN BYTES  20 -120 bytes/block
NAME AN ADDRESS COMPLETE THIS. RECORDING MODE	APUTER SPECIALIST:  IND PHONE NUMBER Data Man.  IS University of Alaska, I:  IS SECTION IF DATA ARE ON MAGE  BCD BINARY  X ASCII EBCDIC  CKS SEVEN  X NINE  200 BPI X 1600 BPI	ager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 9  SNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal 8232  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE. VOLUME NUMBER)  OZZ IMS HX131 AND HX130 Z FILES ON THIS TAPE  9TRK, 1600BPI, ASCII, NLABEL, ODD  12. PHYSICAL BLOCK LENGTH IN BYTES

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED	1	GTH	17. A	TRIBL	JTES	18. USE AND MEANING
	(e.g., bite, bytee)	NUMBER	UNITS				
FILE TYPE "22" AS	DESIGNATI	D BY	CSEP	ND N	ODC.	THERI	E ARE NO INTENDED DEVIATIONS
	`~ د .	! 	   		`:	, ,	Harana Barana Harana

## 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	11	N/A
DEPTH	0.1M (1M = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	11	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.
- 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.

#### 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	DATE OF LACT	INSTRUMENT WAS	CALIBRATED BY			IECK ONE: NT IS CALIBRAT	ED		INSTRU- MENT IS NOT
(MFR., MODEL NO.)	DATE OF LAST CALIBRATION	YOUR OTHER ORGANIZATION (GIVE NAME)		AT FIXED INTERVALS	BEFORE OR AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (V)	NOT CALI- BRATED	
NEIL BROWN MARK III CTD/O Microprofiler		(4)	NEIL BROWN			(√)	( )		
			·		1				
								-	
·					<u> </u>				·
									<del>-</del>
	ID UNITS ARE FIE ORATORY CALIBRAT		COMPARISON WI	TH DISCRE	TE SAMPLES	TO INCREASE	ACCURAC	OVER	<del></del>
· ·									

Date of Entry: 03/05/90 Unique No.: 190737

## 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:

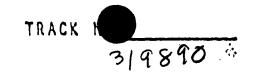
Ocean Area:

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

DINDB Transaction Date:

89000	54

FILETYPE	4	22
		22



P'ROJECT IDENTIFICATION\_\_\_\_

	DATE	· INIT.	TÄPE OR . DISK DSN		NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	11/24/89	cinit	, A01009		2	120	2400	1063
P E	12/07/87	cant	w10456**		2	120	2400	1063
TAPE"	3-1-90		W12533 ***	-	<u>'</u>	120	12000	1063
DISK .								
X								
				:	j.		• • • • • • • • •	
, , , , , , , , , , , , , , , , , , , ,		"						
TALTZED	·							,

\*\* DSN= DNODC\* 8900284-01

XXX DNODCX ISHOUT.

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

PACKS DELETED, FIELDS DELETED, ETC.)

NAMSEN REF. # 319890

MULDARS TRACK #

TV4650

MONITOR: CONTACT

J. Frank

LOCATION OF FO22 SOURCE

Archives (TV4650)

RECORD ALL ERRORS FOUND

CONSEC(S)

23

ERRORS FOUND

Change Day from 5 to 6

Quality Indicators were applied to one station

NOAA FORM 24-5 U.S. DEPARTMENT OF COMMERCE NATIONAL OCFANIC AND ATMOSPHERIC ADMINISTRATION TRANSMITTAL AND RECEIPT RECORD (Please sign and return carbon copy acknowledging receipt) NODC: NODC HX131 1825 Connecticut Ave NW ATTENTION Washington DC 20235 Francics Mitchell E/OCi3 THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY ORDINARY REGISTERED MAIL CERTIFIED GOVERNMENT TRUCK BY HAND OTHER Enclosed is a nine panck tape of FT022 data. IMS submitted the data, see the station stat sheet attached. Please deliver to the Mitshell. Thorks Mee

## DATA DOCUMENTATION FORM

NOAA FORM 24-13

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

INIS SECTION MUST BE COMP	LEIED BI DUNUK I	FUR ALL I	DATA TRANSMI	I I A L S	1	<u></u>			
1. NAME AND ADDRESS OF IN	STITUTION, LABOR	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA A	RE ASSOCIATED			
UNIVERSITY OF ALAS	KA			<u> </u>		`			
INSTITUTE OF MARIN	IE SCIENCE			(6)	Dromon	\ <u>\</u>			
DATA MANAGEMENT				$I^{\otimes l}$	NECENCE!				
ROOM 111 O'NEAL BU	ILDING .				21 - 2 - 4	000 5			
FAIRBANKS, ALASKA	99701			=	17 1	888  -			
2. EXPEDITION, PROJECT, O	R PROGRAM DURING	WHICH	3. CRUISE NUM	BER(S) USED,	Y ORIGINATOR	TO IDENTIFY			
DATA WERE COLLECTED			DATA IN THIS SHIPMENT						
TCUTAD			ļ		766	$\sim$			
ISHTAR			ĺ	HX131	6/1101	(1)			
DDP 84052	286			,,,,,,,,	7.8.				
4. PLATFORM NAME(S)	5. PLATFORM TYPE	-(6)	6. PLATFORM A	NO OBERATOR	17 04	TES			
4. FEATFORM NAME(3)	Y, ETC.)	NATIONALIT		) <i>'</i>	153				
			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR			
R/V ALPHA HELIX	SHIP								
10, 1 1121 121 1122 111	01111		USA	USA	09/12/89	09/2/89			
			00	0011	01/1901	10/2/01			
8. ARE DATA PROPRIETARY			SE DARKEN ALI						
X NO YES		CONT	TAINED IN YOUR SUBMISSION WERE COLLECTED.						
A NO TES									
IF YES, WHEN CAN THE				GENERAL AR	EA				
FOR GENERAL USE?									
PROGRAM (DNP)?		100" 120" 1	40" 180" 180" 160" 140	- 120° 100° 80° 60°	48" 28" 8" 28"	er or or our			
(I.E., SHOULD THEY BE IN-		278 27	Prog Joseph	Company of the	B 23200	284 (1) 1/25 270			
TIONAL EXCHANGE?)	FOR INTERNA-	242	237 272	27 20 2	2020	20 20			
		206			A Jack	212 207			
NO YES PART	(SPECIFY BELOW)	170	15 160	171 155	re na	176 <b>2 0</b> 171			
		40 N	129 124	110		140 135 40*			
		70. 039. 6	093 088	90 C 978		200 20			
10. PERSON TO WHOM INQUIRE	ES CONCERNING		057 052	047 000					
DATA SHOULD BE ADDRES	SED WITH TELE-	<b>357</b>	315 V 356 2 351	310 305	3003319	631 326			
PHONE NUMBER (AND ADD THAN IN ITEM-1)	KESS IF OTHER	29. Sale (	1992 1 347	382 377	<del>}                                    </del>	AU3 700 200 1			
DATA MANAGER		4 5	Ver 20 00	418	<del>╿┈┡╸╿╶┡═┥═┩╶╽═╿</del> ╌╉╴	09 O4 40.			
(907) 474-7836		469	44 8 69		<del>}                                    </del>	67 470			
(907) 474-7092		<b>∞</b> • 505	500 495	100 90 005	480515	511 506			
. ,	ĺ	butter	236     534	520 521	514551	199 199			
		577	572 567	362 B57	552580	583 578			
		100" 120" 1	148" 188" 188" 188" 148	- 129° 189° 88° <b>60</b> °	40. 50. 6. 50.	4F. 8E. 88. 186.			
NOAA FORM 24-13									

## C. DATA FORMAT

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

	THREE RECORD TYPES WI	THIN FILE TYPE 22
	Designated by byte 10	
	"1" for Text Recor	,1
	"2" for Master Rec	ord
	"3" for Detail Rec	ord
GIVE BRIEF DESCR	IPTION OF FILE ORGANIZATION	
	File 22, STD/CTD: 0 to	o 99,999 Text records, followed by
	1 Ma	aster record, followed by
	0 to	o 99,999 Detail records
	Repe	eats
	X FORTRAN	ALGOL COBOL LANGUAGE
RESPONSIBLE COM	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana	LANGUAGE
RESPONSIBLE COMINAME AND ADDRESS	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana	LANGUAGE  ager (907) 474-7836  astitute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE
RESPONSIBLE COMINAME AND ADDRESS	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY	LANGUAGE  ager (907) 474-7836  astitute of Marine Science, Fairbanks, Alaska 9
RESPONSIBLE COMI NAME AN ADDRESS COMPLETE THIS	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir	LANGUAGE  ager (907) 474-7836  astitute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII BECDIC	LANGUAGE  ager (907) 474-7836  astitute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII EBCDIC	DANGUAGE  Ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal 32  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG BCD BINARY X ASCII BECDIC SSEVEN	DANGUAGE  Ager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal 32  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE)
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE  NUMBER OF TRACE (CHANNELS)	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG BCD BINARY X ASCII BECDIC SSEVEN	Induscription (1000) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTERRECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  12. AND HX(3C)
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE  NUMBER OF TRACE (CHANNELS)	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII BECDIC  S SEVEN  X NINE	Interpretations of Data Type, Volume Number)  Octal 17  Octal 32  11. Paste-on-paper Label Description (Include Originator Name and Some Lay Specifications of Data Type, Volume Number)  O22 IMS  HX131 AND HX130  2 FILES ON THIS TAPE
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE  NUMBER OF TRACE (CHANNELS)	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII BECDIC  S SEVEN  X NINE	Induscription (1000) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTERRECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  12. AND HX(3C)
RESPONSIBLE COMINAME AND ADDRESS  COMPLETE THIS RECORDING MODE  NUMBER OF TRACE (CHANNELS)	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCD BINARY  X ASCII BECDIC  SSEVEN  X NINE  X ODD EVEN	Interpretations of Data Type, Volume Number)  Octal 17  Octal 32  11. Paste-on-paper Label Description (Include Originator Name and Some Lay Specifications of Data Type, Volume Number)  O22 IMS  HX131 AND HX130  2 FILES ON THIS TAPE
ADDRESS  COMPLETE THIS RECORDING MODE	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBERData Mana University of Alaska, Ir  S SECTION IF DATA ARE ON MAG  BCDBINARY  X ASCIIBECDIC  S  S EVEN  X NINE   Z ODD EVEN  200 BPI X 1600 BPI	Institute of Marine Science, Fairbanks, Alaska 9  NETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  12. EILES ON THIS TAPE  9. TRK, 1600 BPL, ASCII, NLABEL, OD)

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED	Į	GTH	17. AT	TRIBUT	ES	18. US	EAN	DMEANING	
	(e.g., bills, bytee)	NUMBER	UNITS							
FILE TYPE "22" AS	DESIGNATI	BD BY (	CSEP .	ND NO	DDC. 1	HERI	E ARE	NO	INTENDED	DEVIATIONS
		   				,	•			
	I									

## 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	11	N/A
<b>ВЕРТ</b> Н	0.1M (In = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	11	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 ("\(\sigma\)") 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	0475.051.407	INSTRUMENT WAS	CALIBRATED BY			ECK ONE: IT IS CALIBRAT	ED	·	INSTRU- MENT IS		
(MFR., MODEL NO.)	DATE OF LAST CALIBRATION	YOUR ORGANIZATION (V)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW	NOT CALI- BRATED (√)		
NEIL BROWN MARK IIIB CTD/O Microprofiler	5/64		NEIL BROWN	<u> </u>							
									· · · · · · · · · · · · · · · · · · ·		
									·		
	<del></del>							~			
	D UNITS ARE FIE		COMPARISON W	TH DISCRET	E SAMPLES	TO INCREASE	ACCURAC'	OVER	<del></del>		
			,, <u>.,</u> .,						<del></del>		

## DATA DOCUMENTATION FORM

NOAA FORM 24-13

NOAA EORM 24-13

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

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

USCOMM-DC 44289-P72

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 17 1939 INSTITUTE OF MARINE SCIENCE J DATA MANAGEMENT ROOM 111 O'NEAL BUILDING FAIRBANKS, ALASKA 99701 3. CRUISE NUMBER(S) USED BY ORIGINATOR TOJOENTIFY 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED DATA IN THIS SHIPMENT OFFSHORE CHUKCHI SEA HX130 NOAA/MMS 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) 6. PLATFORM AND OPERATOR 7. (E.G., SHIP, BUOY, ETC.) NATIONALITY(IES) FROM: MODAY,YF TO: PLATFORM OPERATOR R/V ALPHA HELIX SHTP USA USA 8. ARE DATA PROPRIETARY? 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. X NO YES IF YES, WHEN CAN THEY BE RELEASED GENERAL AREA FOR GENERAL USET YEAR \_\_\_\_ MONTH 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-TIONAL EXCHANGE?) YES PART (SPECIFY BELOW) 119 פט 10. PERSON TO WHOM INQUIRIES CONCERNING 102 100 DATA SHOULD BE ADDRESSED WITH TELE-ন্দ্ৰ 310 3000339 320 341 PHONE NUMBER (AND ADDRESS IF OTHER 351 336971 THAN IN ITEM-1) 972 1218 387 382 372 407 0840 23 415 9 64 DATA MANAGER 69 457 470 (907) 474-7836 (907) 474-7092 531 572 - 567 562 557 148" 188" 188" 198" HOT 128" 198" 96"

•	THREE RECORD TYPES W	CITHIN FILE TYPE 22
	Designated by byte 1	0:
	"1" for Text Reco	
	"2" for Master Re "3" for Detail Re	
GIVE BRIEF DESCR	RIPTION OF FILE ORGANIZATION	NC
	File 22, STD/CTD: 0	to 99,999 Text records, followed by
	1	Master record, followed by
	0	to 99,999 Detail records
	Re	peats
ATTRIBUTES AS EX	X FORTRAN	ALGOL COBOL LANGUAGE
RESPONSIBLE COM	X FORTRAN  PUTER SPECIALIST: Description of the phone number Data Ma	LANGUAGE
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Ma University of Alaska,	nager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 9
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBER Data Ma University of Alaska,  S SECTION IF DATA ARE ON MA	nager (907) 474-7836 Institute of Marine Science, Fairbanks, Alaska 9
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RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI RECORDING MODE	T FORTRAN  A PUTER SPECIALIST: D PHONE NUMBER Data Ma University of Alaska,  S SECTION IF DATA ARE ON MA BCD BINARY X ASCII BCDIC	Inager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  AGNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK OCTAL 17 X Octal \$237
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI RECORDING MODE	X FORTRAN  APUTER SPECIALIST: D PHONE NUMBER Data Ma University of Alaska,  S SECTION IF DATA ARE ON MA BCD BINARY X ASCII BECDIC  KS	nager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  AGNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI RECORDING MODE NUMBER OF TRAC (CHANNELS)	X FORTRAN    PUTER SPECIALIST:   D PHONE NUMBER	Inager (907) 474-7836  Institute of Marine Science, Fairbanks, Alaska 9  AGNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$237  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  622 TM S
RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI RECORDING MODE  NUMBER OF TRAC (CHANNELS)	X FORTRAN    PUTER SPECIALIST:   D PHONE NUMBER	Institute of Marine Science, Fairbanks, Alaska 9  AGNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  OCTAL 17  X Octal \$237  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
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RESPONSIBLE COM NAME AN ADDRESS COMPLETE THI RECORDING MODE	X FORTRAN  PUTER SPECIALIST: D PHONE NUMBERData Ma     University of Alaska,  S SECTION IF DATA ARE ON MA	Institute of Marine Science, Fairbanks, Alaska 9  AGNETIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) X 3/4 INCH  10. END OF FILE MARK  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  622 IMS  HX 131 AND HX 130  2 FILES ON THIS TAPE  9 TRK, 1600BPI, ASCII, NLABEL, 6DD

## RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

	14. FIEI	DNA	AE		15. POSITION FROM - 1 MEASURED	1	GTH	117.	ATTRIBL	DTES	18. US	EAN	DMEANING	
1					(e.g., blin, bytee)	NUMBER	UNITS							
	FILE FROM	TYPE THIS	"22" TYPE	AS	DESIGNAT	BD BY	CSEP .	ND	NODC.	THERI	ARE	NO	INTENDED	DEVIATIONS
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## B. SCIENTIFIC CONTENT

D. 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	11	N/A							
DEPTH	0.1M (1H = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	11	N/A							
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## 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.

#### 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 ("\sum'") 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					INSTRU- MENT IS
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS	BEFORE OR After Use	BEFORE AND AFTER USE ( \( \frac{1}{2} \)	ONLY AFTER REPAIR (V)	ONLY WHEN NEW	NOT CALI- BRATED
EIL BROWN MARK IIIE TD/O Microprofiler	5/01.		NEIL BROWN						
						_			
									,
	UNITS ARE FIE RATORY CALIBRAT		COMPARISON WI	TH DISCRET	TE SAMPLES	TO INCREASE	ACCURAC	OVER	

## Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
89002	84 C022	319890	9999	3117	31HX	1989/09/02	TV4650	189399
89002	84 F022	TV4650	9999	3117	31HX	1989/09/02	HX-130/1	189400

(2 rows affected)

## Password:

accNo	fleA	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)