TR-0126 | ACCESSION NUMBER 76-1552

DDF-B:1:15

DATA DOCUMENTATION FORM

July 29, 1976 A
9 pages

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.

319041 C022

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

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

~~OCSEAP~~ NEGOA

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

AC 212
212IMS

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
ACONA STD	Ship	USA	USA	6-3-75	6-13-75

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

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

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

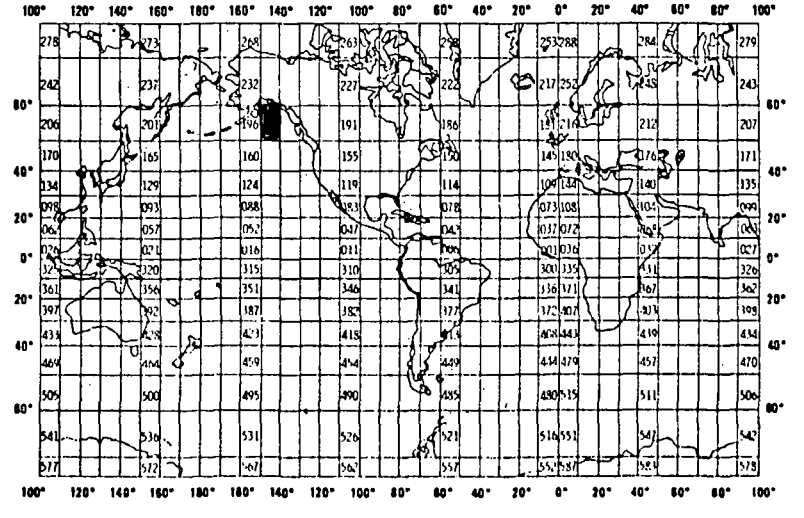
[X] NO [ ] YES [ ] PART *(SPECIFY BELOW)*

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

DAVID L. NEBERT (907) 479-7833
DAVID EBERHARDT (907) 479-7074

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

GENERAL AREA



USCOMM-DC 44289-P72

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°/oo	Bissett-Berman STD model 9040 SER. no. 5341. used for collecting STD Data	DESCRIPTION OF BASIC PROCESSING ATTACHED	
TEMPERATURE	0.001°C			
DEPTH	0.1m (1m = 1 db)	model 6230 Bissett-Berman Salinometer used to determine Sample Salinities.		

IMS STD/CTD DATA REDUCTION
July 1976

STDCOPY

Raw, 7-track mag tapes from 8400 or 8114 Plessey Digitizers are input, along with conversion equations specific for each sensor. These equations reflect the latest calibration or factory compliance data. If the FISH contains a conductivity sensor, it 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 digitally entered header data and all STD values on the 7-track tape. Output from this program is input for STDAV.

CALVAL

Periods from a frequency counter, taken at the time discrete samples were taken, is 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 and standard deviations for T and S. Generally, values for T and S 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.

STDAV

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

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1m = 1db) and averaged. Field corrections are added to the one meter averages.

STD Scan condition codes are set:

0 - Data processed prior to implementation of code. All values will be labeled 0.

1 - Value obtained from raw data at that depth interval. Processing to obtain this value must be specified in a DDF.

2 - Values are linearly interpolated from adjacent depth intervals.

3 - Values are obtained by "Vertical Extrapolation" from the first depths for which a value is found that falls within sensor limits.

Output includes header information and all corrected data in one meter intervals.

FINAL PRINT-OUT: To include the following, in addition to header and data:

1) Print-out "FISH" serial No. and stations for which it was used if more than one was used.

2) Equations used to convert frequency to parameters for each FISH used.

3) Field corrections used, to include mean and S.D. for each parameter. (If more than one fish was used, this is given for all fish).

4) Indicate how many bottles were used to determine each field correction for each fish used.

5) Other comments pertinent to individual stations or whole cruise.

TAPE 9431

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 Master Record, Followed by

0 to 99,999 Detail Records

Repeats.

NOTE: 2 casts for station 13

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

NOTE: All computations done with Fortran

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836

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

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☐ ASCII ☒ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☒ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☐ 1600 BPI ☐ 556 BPI ☒ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☒ 0.5 - 0.6 Inch

10. END OF FILE MARK ☐ OCTAL 17 ☒ Octal 23

ØØ9431

289 Ø22 212IMS
Acona 212
Sta's 1-6Ø
6/3/75 - 6/13/75 T. Royer
9Trk, 8ØØBPI, EBCDIC, No Label, Odd

12. PHYSICAL BLOCK LENGTH IN BYTES 120 BYTES

13. LENGTH OF BYTES IN BITS 8 BITS /BYTE

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☑ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER P.J. TOPOLY 634-7505
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☑ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☑ NINE
☐ _____

7. PARITY
☑ ODD
☐ EVEN

8. DENSITY
☐ 200 BPI ☑ 1600 BPI
☐ 556 BPI
☐ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☑ 3/4 INCH
☐ _____

10. END OF FILE MARK
☑ OCTAL 17
☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

TAPE # ØØ4262
LABEL = (3, NL)

12. PHYSICAL BLOCK LENGTH IN BYTES
4800 (LRECL = 120)

13. LENGTH OF BYTES IN BITS

STD RECORD FORMAT DESCRIPTION

RECORD NAME TEXT RECORD (OPTIONAL) Date: 10/15/75

14. FIELD NAME	15. POSITION EQUALS MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	"		
Record Type	10	1	"	I1	Always '1'
Cast Number	11	5	"		Analogous to NODC Station Number
Text	16	100	"	100A1	Additional pertinent information
Sequence Number	116	5	"	I5	Ascending numeric, used for sorting
MASTER RECORD		(Required Thru Bytes 59)			Date: 10/15/75
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	"		
Record Type	10	1	"	I1	Always '2'
Cast Number	11	5	"		Analogous to NODC Station Number
Latitude,					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths of Minutes	20	2	"	I2	
Hemisphere	22	1	"	A1	'N' or 'S'
Longitude,					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths of Minutes	28	2	"	I2	
Hemisphere	30	1	"	A1	'E' or 'W'
Cruise Identification	31	10	"	10A1	Originator Cruise Identification
Number of Scans	41	5	"	I5	Number of scans in a 'station'. (There are five scans per record type '3')
Year	46	2	"	I2	Last two digits of year)
Month	48	2	"	I2	1-12)
Day	50	2	"	I2	1-31) GMT
Hour	52	2	"	I2	0-23)
Minutes	54	2	"	I2	0-59)
Depth Interval Indicator	56	1	"	I1	'0' equals unequally spaced depths '1' equals equal spaced depths
Depth Interval	57	3	"	I3	When above equals '1', the depth interval, to tenths of meters reported
Barometric pressure	60	5	"	I5	Millibars To tenths

STD RECORD FORMAT DESCRIPTION 10-15-75

RECORD NAME _____ Date: 10/15/75

14. FIELD NAME	15. POSITION FROM-TO MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Wet bulb temperature	65	4	Bytes	I4	Degrees C To tenths
Dry bulb temperature	69	4	"	I4	Degrees C To tenths
Wind direction	73	2	"	I2	Tens of degrees WMO Codes 0855
Wind speed	75	2	"	I2	Whole knots and 0877
Weather Code	77	1	"	I1	WMO 4501
Sea State Code	78	1	"	I1	WMO 3700
Visibility Code	79	1	"	I1	WMO 4300
Cloud Type Code	80	1	"	A1	WMO 0500
Cloud Amount Code	81	1	"	I1	WMO 2700
Instrument Information	82	20	"	20A1	Type and Serial Number
Location Name	102	6	"	A6	OCSEP Internal Location Code
Depth to bottom	108	5	"	I5	To whole meters
Maximum depth of cast	113	4	"	I4	To whole meters
Blank	117	4	"	4X	
	DETAIL RECORD (Required)				Date: 10/15/75
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	"		
Record Type	10	1	"	I1	Always '3'
Cast Number	11	5	"	I1	Analogous to NODC Station Number
Depth	16	5	"	I5	Meters to Tenths)
Temperature	21	5	"	I5	Deg. C to Thousandths)
Salinity	26	5	"	I5	P.P.T. to Thousandths) SCAN DATA
Sigma-t	31	4	"	I4	To hundredths)
Scan Condition Code	35	1	"	A1	Code describing how) data arrived at)
SCAN DATA	36	4(20)	"	4(3I5,I4,A1)	Repetition of above
Sequence Number	116	5	"	I5	Ascending numeric, used for sorting
					Blanks are used when significance of field indicated exceeds what is measured.

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE.					

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 (√)	(√)
STD model 9040 ser. no. 534 Bissett-Berman	4-23-73		Bissett-Berman	✓					
Bissett-Berman model 6230 salinometer	1975 spot check	✓		✓					

NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.

STA's 1-60

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OCTAL DUMP — FIRST 10 Rec's

$ FEILE IN.PHYREC 00000000
$ FUTIL I*..DUMP/1602/ 00000000

BLK#	MODE	CC	WRD#	PHYREC	DUMP FILE#	1 FILECODE IN	DENS 1600
1	BINARY	4	1	741713627457 076262352342	742401002004 036170744305	201447257056	%\#S%*7SS(CK%D10 43/Y%L5 #PEY:
			6	171170762343 612403266144	032460354711 653425007054	471161352703	\9Y"CL/D3F/M3D+(P9V)E0Y*\9/(G3
			11	612403117044 033161361327	655527426234 132361240306	655545007074	/D39YM3I/<#GV)GKS)*C/D36V)N0Y%
			16	431170440304 603617012014	172664751705 607617056104	030160553301	L9YM34+<\1 @\FU=\5+"\5/431+).1
			21	663421002004 010020040100	200401002004 010020040100	200401002004	W)A0 410 410 410 410 410 410 4
			26	010020040100 200403610000			10 410 43/00
2		4	1	741713627457 076262352342	742401002004 036120040343	621425006034	%\#S%*7SS(CK%D10 43/ 43L5#E0+)
			6	172665340500 605427437154	270565240321 711527052017	150060352704	\FV150+*GLZ*G5VD3AZ:G5 \:0+(G4
			11	201507446534 250074371553	201707717577 250060564100	706455006635	:7MV)E0%\:$ \7Z=\E0+:J0YU)0W(
			16	335661354500 655431007074	430520144725 705617117076	234361240326	.Q/(N0V*10Y%L5 #PEY:\9Y"CL/D3F
			21	614401002004 010020040100	200401002004 010020040100	200401002004	/M10 410 410 410 410 410 410 4
			26	010020040100 200403620000			10 410 43S00
3		4	1	741713627457 076262352342	742401002004 036120040324	603547116534	%\#S%*7SS(CK%D10 43/ 43D+(P9V)
			6	250070541711 613527036124	550020040100 200401002004	010020040100	E0Y*\9/(G3/D)0 410 410 410 410
			11	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			21	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			26	010020040100 200403630000			10 410 43T00
4		4	1	741713627457 076262352342	742401002004 036120040100	200401002004	%\#S%*7SS(CK%D10 43/ 410 410 4
			6	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			11	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			21	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			26	010020040100 200403640000			10 410 43U00
5		4	1	741713627457 076262352342	742401002004 036170561704	201523266114	%\#S%*7SS(CK%D10 43/Y;\4 :CF/@
			6	272320174760 751701532016	130566344701 646403257115	230261354500	GC \P+=\1$ >*5W)P1UU3EZ:C2/(N0
			11	753717647424 034660361100	711613056104 550020040100	200401002004	=\\U%D30+<90Z>#5/410 410 410 4
			16	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			21	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			26	010020040100 200403650000			10 410 43V00
6		4	1	741713627457 076262352342	742401002004 036120040100	200401002004	%\#S%*7SS(CK%D10 43/ 410 410 4
			6	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			11	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100 200401002004	010020040100 200401002004	010020040100	10 410 410 410 410 410 410 410
			21	200401002004 010020040100	200401002004 010020040100	200401002004	410 410 410 410 410 410 410 4
			26	010020040100 200403660000			10 410 43W00
7		4	1	741713627457 076262352342	742401002004 036161544705	647421006075	%\#S%*7SS(CK%D10 43//*P5U%A0+=
			6	333166342703 707447266524	030665554500 707443117044	030460361701	.IW)G3Y%PFVD36V)N0Y%L9YM34+<\1
			11	201633017044 030165753723	623427042014 472520161710	612403066555	>.1YM31V=\CS)G4 @PE >\8/D36V)
			16	472420153306 201405006474	472561340731 200401002004	010020040100	PD :.6 @50U%PE/171 410 410 410

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 7601552 F022 TR0120 0081 31I7 31AC    1975/06/03 212IMS       300517
 7601552 C022 319041 0081 31I7 31AC    1975/06/03 TR0120       300518

(2 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 7601552 F022 TR0120 31AC 61     8967   75/06/03   75/06/13
 7601552 C022 319041 31AC 61     89     75/06/03   75/06/13

(2 rows affected)
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