

DATA DOCUMENTATION FORM

TR0592

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

319057

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						
Institute of Marine Science U. of Alaska Fairbanks, Alaska 99701						
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED				3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT		
OCSEEP Project 289				814 IMS		
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)		6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES
Surveyor		Ship		US US		FROM: MO, DAY, YR TO: MO, DAY, YR 10/28/75 11/17/75
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____				11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.		
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)				GENERAL AREA		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) DAVE NEBERT DATA PROCESSING 907/479-7833 907/479-7074						

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Autosal 8400 and Hytech salinometers, CTD (Plessey)	See attached data processing procedure sheet	N/A
Temperature	°C	DSR Thermometers, CTD (Plessey)		
Depth	meters	Thermometric depth, CTD (Plessey)		

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

NODC USER TAPE 76-1830

See Originator's

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

See Originator's

3. ATTRIBUTES AS EXPRESSED IN

- PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER N/A

ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____ </p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .56</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"/> EBCDIC </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>VOL = SER. = 3914 LABEL = (1, NL)</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>3600 (120 x 30)</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</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 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.

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

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 0.5 - 0.6 Inch</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> Octal 23</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>²⁸⁹ 307 022 814IMS Surveyor 814 Sta 1-74, 84-123, 125, 126 10/28/75-11/17/75 T. Royer 9TRK, 800BPI, EBCDIC, NO LABEL, ODD</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 600 BPI</p> <p><input type="checkbox"/> _____</p>	<p>VOL-SER = 9446</p> <p>12. PHYSICAL BLOCK LENGTH IN BYTES 3600 BYTES</p> <p>13. LENGTH OF BYTES IN BITS 8 BITS / BYTE</p>

ORIGINATOR

CORD NAME TEXT RECORD (OPTIONAL)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (0, 1, 2, 3, 4, 5, 6, 7, 8, 9)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Post Number	11	5	Bytes	A5	Analogous to NODC Station Number
Text	16	100	Bytes	100A1	Additional pertinent information
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
MASTER RECORD (REQUIRED THRU BYTES 59)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Post Number	11	5	Bytes	A5	Analogous to NODC Station Number
Latitude					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Hundredths of Minutes	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Hundredths of Minutes	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification
Number of Scans	41	5	Bytes	I5	Number of scans in a 'station' (There are five scans per record type '3')
Year	46	2	Bytes	I2	Last two digits of year
Month	48	2	Bytes	I2	1-12
Day	50	2	Bytes	I2	1-31
Hour	52	2	Bytes	I2	0-23
Minutes	54	2	Bytes	I2	0-59
Depth Interval Indicator	56	1	Bytes	I1	'0' equals unequally spaced depths '1' equals equal spaced depths
Depth Interval	57	3	Bytes	I3	When above equals '1', the depth interval, to tenths of meters reported.
Barometric pressure	60	5	Bytes	I5	Millibars to tenths

RECORD FORMAT DESCRIPTION STD

2-20-76

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., 500, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wet bulb temperature	65	4	Bytes	I4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	I4	Degrees C to tenths
Wind direction	73	2	Bytes	I2	Tens of degrees WMO Codes 0855 and 0877
Wind speed	75	2	Bytes	I2	Whole knots
Weather Code	77	1	Bytes	I1	WMO 4501
Sea State Code	78	1	Bytes	I1	WMO 3700
Visibility Code	79	1	Bytes	I1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	I1	WMO 2700
Instrument Information	82	20	Bytes	20A1	Type and Serial Number
Location Name	102	6	Bytes	A6	OCSEF Internal Location Code
Depth to bottom	108	5	Bytes	I5	To whole meters
Maximum depth of cast	113	4	Bytes	I4	To whole meters
Blank	117	4	Bytes	X	
DETAIL RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	I5	Meters to tenths
Temperature	21	5	Bytes	I5	Degrees C to thousandths
Salinity	26	5	Bytes	I5	P.P.T. to thousandths
Sigma-t	31	4	Bytes	I4	To hundredths
Scan Condition Code	35	1	Bytes	A1	Code describing how data arrived at
SCAN DATA	36	4(20)	Bytes	4(3I5,I4,A1)	Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
Blanks are used when significance of field indicated exceeds what is measured.					

} SCAN DATA

RECORD FORMAT DESCRIPTION

1-15-76

RECORD NAME Detail 2 Record (STD)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN BYTES (i.e., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING	
		NUMBER	UNITS			
File Type	1	3	Bytes	A3	Always '022'	
File Identification	4	6	Bytes	A6		
Record Type	10	1	Bytes	I1	Always '4'	
Cast Number	11	5	Bytes	A5	Analogous to NOIC Station Number	
Depth	16	5	Bytes	I5	Meters to tenths	
Dissolved Oxygen	21	5	Bytes	I5	ml/l to thousandths	
Transmissivity	26	5	Bytes	I5	% to thousandths	
Blank	31	4	Bytes	4X	Scan Data	
Scan Condition Code	35	1	Bytes	A1		Code describing how data arrived at
Scan Data	36	4(20)	Bytes	4(3I5,4X,A1)		Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting	

Blanks are used when significance of field indicated exceeds what is measured

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 (✓)		
Plessey CTD MOD. NO. 9040 SER. NO. 6201	1975		NRCC						✓	
PLESSEY CTD MOD. NO. 9040 SER. NO. 5887	1975		NRCC						✓	
Autosal Mod. 8400				✓						
Hytech Salinometer				✓						

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.

LINE#	FFILE	IN	PHREC	IN	DUMP	FILE	PHREC	DUMP	FILE	1	FILECODE	IN
PK#	CODE	CC	MODE	MODE	MODE	MODE	MODE	MODE	MODE			
1	BINARY									00000000		
5										00000000		
9												

LINE#	FFILE	IN	PHREC	IN	DUMP	FILE	PHREC	DUMP	FILE	1	FILECODE	IN
PK#	CODE	CC	MODE	MODE	MODE	MODE	MODE	MODE	MODE			
1					7471713627617	0764625358342	742401002004	036170744305	201447237056			
6					1711707628343	6124032561144	032450384711	653425007054	171161352703			
11					612403117044	033151361327	655527628234	132361240306	655545007074			
16					431170440304	6036117012014	172664781705	607617856194	030160583301			
21					645421002204	010020040100	200401002004	010020040100	200401002004			
26					010020040100	200401002004	010020040100	010020040100	010020040100			
31					200403436214	250070562331	713427450555	450060542743	715427056524			
36					032660761725	605427312017	137020140725	610403256556	270565141305			
41					662403617565	550074374767	752403022204	034322741513	201547267214			
46					273120153306	201617106124	010020040100	200401002004	010020040100			
51					200401002004	010020040100	200401002004	036274171362	761707646235			
56					234274240100	200403612804	031175361363	623617447074	290065543100			
61					651607316235	270520161303	623427256074	251320040100	200401002004			
66					010020040100	200401002004	010020040100	010020040100	200401002004			
71					200401002004	010020040100	200401002004	010020040100	200401002004			
76					010020040100	200401002004	010020040100	200401002004	010020040363			
81					741713627617	076462352342	742401002004	036170040100	200401002004			
86					010020040100	200401002004	010020040100	200401002004	010020040100			
91					200401002004	010020040100	200401002004	010020040100	200401002004			
96					010020040100	200401002004	010020040100	010020040100	200401002004			
101					200401002004	010020040100	200401002004	010020040100	200401002004			
106					010020040100	200403647417	136276170764	623523427424	010020040361			
111					607617042015	232661142723	261747607817	615320161305	663447018464			
116					032671132302	613545007557	136072460346	603611007116	130561040305			
121					65545007056	170170744726	653611507426	037174445500	201612436035			
126					17116552742	201747639017	076275640100	200401002004	010020040100			
131					200401002004	010020040100	200401002004	036574171362	761707646235			
136					234274240100	200403612004	034470542704	201617436104	032465542305			
141					646403717417	236037640342	613547116035	1910065362334	605427312017			
146					277076173513	200403056616	230170744726	653611007116	130561040343			
151					64403076135	270566340743	612401002004	010020040100	200401002004			
156					010020040100	200401002004	010020040100	200401002004	010020040366			
161					761713627617	076462352342	742401002004	036170040327	633547016514			
166					274361354742	201433316555	210061554705	661423056534	175020143326			
171					647517267167	510020040100	200401002004	010020040100	200401002004			
176					010020040100	200401002004	010020040100	200401002004	200401002004			
181					200401002004	010020040100	200401002004	200401002004	200401002004			
186					010020040100	200403677417	136276170764	623523427424	010020040361			
191					200401002004	010020040100	200401002004	010020040100	200401002004			
196					010020040100	200401002004	010020040100	200401002004	010020040100			
201					270401002004	010020040100	200401002004	010020040100	200401002004			
206					010020040100	200401002004	010020040100	200401002004	010020040100			
211					250401002004	010020040100	200401002004	037074171362	761707646235			
216					234274240100	200403612004	010020040100	200401002014	332566240342			
221					613567116035	150065353113	201733427417	034030040100	200401002004			
226					010020040100	200401002004	010020040100	200401002004	010020040100			

DENS 800

ACCESSION # 76-1830

CRUISE VESSEL PARAMETER COUNT BEGIN & END T

8141MS

STATIONS	PARAMETER	COUNT	BEGIN	END	T
116	BAROMETRIC PRESSURE	116	751030	751111	+
104	WET BULB TEMPERATURE	104	751030	751111	+
104	DRY BULB TEMPERATURE	104	751030	751111	+
116	WIND DIRECTION	116	751030	751111	+
116	WIND SPEED	116	751030	751111	+
112	WEATHER CODE	112	751030	751111	+
116	SEA STATE CODE	116	751030	751111	+
109	VISIBILITY CODE	109	751030	751111	+
27	CLOUD TYPE CODE	27	751030	751111	+
28	CLOUD AMOUNT CODE	28	751030	751111	+
84305	DEPTH	84305	751030	751111	+
84305	TEMPERATURE	84305	751030	751111	+
84305	SALINITY	84305	751030	751111	+
84305	SIGMA-T	84305	751030	751111	+
0	DEPTH2	0	0	0	+
0	DISSOLVED OXYGEN	0	0	0	+
0	TRANSMISSIVITY	0	0	0	+
84305	ALL * DATA PRESENT	84305	751030	751111	+

022-2

#2 001545
007508
12014800, FD22

RNSL 000295
5464
(C4049)
#1 U020118

TR 268, 530-531, 551, 578, 582, 592, 740-741, 1320-1321,
1338, 1339, 1449-1453, 1541-1548, 1702-1704, 1720-1721,
1846-1851, 1854, 1892, 2095, 2100-2101, 2127-2128,
2381, 2387-2388, 2776-2777, 2931-2933

263,398

accession no: 76-1830

NANSEN REF. #

319057

MULDARS TRACK #

TR0592

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TR0592)

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

104

Change degree of longitude
from 163° to 160°

108 & 113

Delete depth to bottom

Muldass corrections made 10/14/83