

DDF-B:2:21

## DATA DOCUMENTATION FORM

TR 0053

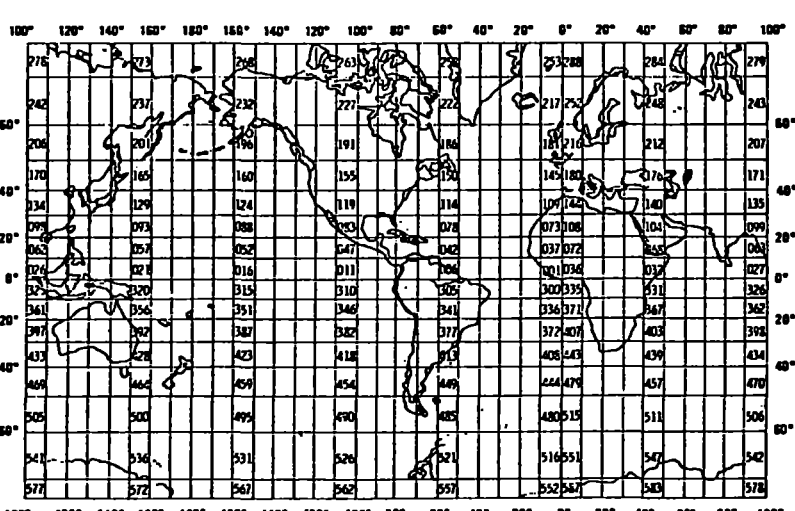
Cruise # 319024

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

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

## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Data Management Institute of Marine Science University of Alaska Fairbanks, AK 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  193IMS	
4. PLATFORM NAME(S)  R/V Acona	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)  U.S.      U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 7/2/74      7/10/74
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  David Eberhardt (907) 479-7074  David Nebert (907) 479-7833			

April 9, 1976

# 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‰	} STD MOD. 9040 PLESSEY w/ 8114 DATA LOGGER	(DESCRIPTION OF BASIC PROCESSING ATTACHED.)	
TEMPERATURE	0.001 °C			
DEPTH	0.1 METERS (1m ≡ 1db)			

Input 2, 1976

## IMS STD/CTD DATA REDUCTION - FEB. 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 Bennett (In press).

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 both T and S are rejected if either value falls beyond 2S.D.

Subjective judgements as to the quality of the field correction data can be 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.

April 9,

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.

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:

THIS SECTION  
NOT FULLY  
OPERATIONAL  
AT THIS TIME.

- 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 must be given for all fish.)
- 4) Indicate how many bottles were used to determine each field correction (If more than one FISH..... ALL FISH.)
- 5) Other comments pertinent to individual stations or whole cruise.

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

Three (3) record types; Text (1), Master (2), and Detail (3) differentiated by byte 10.

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 Cydney Hansen (907) 479-7836  
ADDRESS IMS, Univ. 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 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 <input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</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>Institute of Marine Science University of Alaska OCSEP File 022, STD Data Originator Cruise No. 193</p> <p>ORIGINATOR TAPE <u>PJT012</u></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"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>Unblocked</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

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

Three (3) record types, text record (1), master record (2), and detail record (3) differentiated by byte 10.

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 DSF+I BRANCH D752  
ADDRESS \_\_\_\_\_

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 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 <input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>USER TAPE 11575</p> <p>VOL=SER= 011575</p> <p>LABEL= ( 8 , NL)</p> <p>DCB= (BLKSIZE=4800, LRECL=120, RECFM=FB)</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>4800</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>6</p>

# RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTE	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'
Cast 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'
Cast 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
Depth Interval	57	3	Bytes	I3	'1' equals equal spaced depths
					When above equals '1', the depth interval, to tenths of meters reported.
Barometric pressure	60	5	Bytes	I5	Millibars to tenths

## RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., 115, 145)	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	OCSEP 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	4X	
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.					



## 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 9040 STD	FEB 76		NRCC/NOIC BELLEVUE	✓ 12 to 24 mo					

NAVIS # : 76-1138

INSTITUTION : UNIV. OF ALASKA

INSTITUTE OF MARINE SCIENCE

TRUCK # : TR-0053

PROJECT : OCSEAP (NEGOA)

CRUISE # : 193IMS

SHIP : R/V ~~SENA~~ ACONA

COUNTRY : U.S.A.

DNP : NO

NAREDEN SQ.

INCLUSIVE DATES

STATIONS

SAMPLES

195

7/2/74 TO 7/10/74

56

40,405

231

7/2/74 TO 7/4/74

4

451

PARAMETERS :

STD DATA [CODE (101)]

WITH

~~TEMPERATURE~~ TEMPERATURE

[CODE (130)]

SALINITY

[CODE (181)]

~~STANDARD~~

[CODE ( )]

ALL  
STATIONS

ORIGINATOR TAPE : PJT012

USER TAPE :

11575

LABEL : (8, NL)

022-1

#2 001544

ANSI 013839

2995

2418

(C 4048)

120/4800, F022

#1 UØ2Ø660

TR (53-60), 74-75, 96, 107-112, 115-117, 119-123, 125,  
127-128, 134-135, 146-153

162, 089

Area 53	accession no:	76-1138	no ch. num
54-57	"	" : 76-1139	no ch. num.
58	"	" : 76-1155	no ch. num.
59	"	" : 76-0929	no ch. num.
60	"	" : 76-1156	no ch. num.

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7601138	F022	TR0053	0081	31C1	31AC	1974/07/02	193IMS	299404
7601138	C022	319024	0081	31C1	31AC	1974/07/02	TR0053	299405

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
7601138	F022	TR0053	31AC	60	8330	74/07/02	74/07/10
7601138	C022	319024	31AC	60	85	74/07/02	74/07/10

(2 rows affected)