

DDI= A:1114

DATA DOCUMENTATION FORM

AA FORM 24-13 (4-72)

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>Data Management Institute of Marine Science University of Alaska Fairbanks, Alaska 99701</p>			
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>OCSEAP</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>00LIMS</p>	
<p>4. PLATFORM NAME(S)</p> <p>Moana Wave</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>Ship</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <p>USA USA</p>	<p>7. DATES</p> <p>FROM: MO/DAY/YR TO: MO/DAY/YR</p> <p>2/1/76 3/5/76</p>
		<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____</p>	
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>		<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>David L. Nebert (907) 479-7833</p> <p>David Eberhardt (907) 479-7074</p>	

B. SCIENTI. 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 ^o /∞	Model 9040 CTD. S.R. 5319 (Main Instrument)		<u>Description of basic processing attached</u>
Temperature	0.001 ^o C	DSRT for field corrections (temperature)		
Depth	0.1m (1m = 1 db)	Beckman RS7-C for field corrections on salinity		

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

Institute of Marine Science - University of Alaska - OCSEAP File Type 022;
STD Data; Originator Cruise No. MW001;
Stations 1-88

TAPE # ~~445~~
13000

Internal Label:
GE 600 BTL GE PHX MW1-1
MW1-1 0001 76155 000IMS-FINAL

12. PHYSICAL BLOCK LENGTH IN BYTES
15 20 Word Records/Block

13. LENGTH OF BYTES IN BITS
6 Bits/BCD Character
6 Characters/Word

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING	
		NUMBER	UNITS			
File Type	1	3	Bytes	A3	Always '002'	
File Identification	4	6	Bytes	A6		
Record Type	10	1	Bytes	I1		
Cast Number	11	5	Bytes	A5		
Text	16	100	Bytes	100A1		
Sequence Number	116	5	Bytes	I5	Always '1' Analogous to NODC Station Number Additional pertinent information 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' Analogous to NODC Station Number	
Cast Number	11	5	Bytes	A5		
Latitude					'N' or 'S'	
Degrees	16	2	Bytes	I2		
Minutes	18	2	Bytes	I2		
Hundredths of Minutes	20	2	Bytes	I2		
emisphere	22	1	Bytes	A1		
Longitude						'E' or 'W'
Degrees	23	3	Bytes	I3		
Minutes	26	2	Bytes	I2		
Hundredths of Minutes	28	2	Bytes	I2		
Hemisphere	30	1	Bytes	A1		
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification	
Number of Scans	41	5	Bytes	I5		
Year	46	2	Bytes	I2	Number of scans in a 'station' (There are five scans per record type '3') Last two digits of year 1-12 1-31 0-23 0-59 } GMT	
Month	48	2	Bytes	I2		
Day	50	2	Bytes	I2		
Hour	52	2	Bytes	I2		
Minutes	54	2	Bytes	I2		
Depth Interval Indicator	56	1	Bytes	I1	'0' equals unequally spaced depths '1' equals equal spaced depths	
Depth Interval	57	3	Bytes	I3		
Barometric pressure	60	5	Bytes	I5	When above equals '1', the depth interval, to tenths of meters reported. Millibars to tenths	

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, 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	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.					

RECORD FORMAT DESCRIPTION

1-16-'76

RECORD NAME Detail 2 Record (STD)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., 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 NODC 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

C. DATA FORMAT

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

LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
 AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

Three distinct record types: Text (1), Header (2), and Data (3)
 differentiated by byte 10 of every record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF&I Branch 634-7505
 ADDRESS NODC

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 type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input 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>NAPIS Files PJT Vol II Tape #4234 Label = (10,NL) LRECL=120 BLKSIZE=6000</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 align="center">6000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p align="center">4</p>

TABLE 26

Cloud Amount

WMO Code 2700 for recording cloud amount

Code

0	0	.0
1	1 okta or less, but not zero	$\frac{1}{10}$ or less, but not zero
2	2 oktas	$\frac{2}{10} - \frac{3}{10}$
3	3 oktas	$\frac{4}{10}$
4	4 oktas	$\frac{5}{10}$
5	5 oktas	$\frac{6}{10}$
6	6 oktas	$\frac{7}{10} - \frac{8}{10}$
7	7 oktas or more, but not 8 oktas	$\frac{9}{10}$ or more, but not $\frac{10}{10}$
8	8 oktas	$\frac{10}{10}$
9	Sky obscured, or cloud amount cannot be estimated	

2-31-76

TABLE 21

Present Weather

WMO Code 4501 for recording present weather

Code
figure

- 0 Clear (no cloud at any level)
- 1 Partly cloudy (scattered or broken)
- 2 Continuous layer(s) of cloud(s)
- 3 Sandstorm, duststorm, or blowing snow
- 4 Fog, thick dust or haze
- 5 Drizzle
- 6 Rain
- 7 Snow, or rain and snow mixed
- 8 Shower(s)
- 9 Thunderstorm(s)

TABLE 12

Sea State

WMO Code 3700 for Recording Sea State

Description	Height (†)		Code
	Feet*	Meters	
Calm-glassy	0	0	0
Calm-rippled	0 - $\frac{1}{3}$	0 - 0.1	1
Smooth-wavelet	$\frac{1}{3}$ - $1\frac{2}{3}$	0.1 - 0.5	2
Slight	$1\frac{2}{3}$ - 4	0.5 - 1.25	3
Moderate	4 - 8	1.25 - 2.5	4
Rough	8 - 13	2.5 - 4	5
Very rough	13 - 20	4 - 6	6
High	20 - 30	6 - 9	7
Very high	30 - 45	9 - 14	8
Phenomenal	> 45	> 14	9

(†) The average wave height as obtained from the larger well-formed waves of the wave system being observed.

* The exact bounding height is to be assigned for the lower code figure, e.g. a height of 4 meters is coded as 5.

TABLE 8

Direction

In tens of degrees from which waves and/or winds are coming

Code		Code	
00	Calm (no waves - no motion)	22	215° - 224°
01	5° - 14°	23	225° - 234°
02	15° - 24°	24	235° - 244°
03	25° - 34°	25	245° - 254°
04	35° - 44°	26	255° - 264°
05	45° - 54°	27	265° - 274°
06	55° - 64°	28	275° - 284°
07	65° - 74°	29	285° - 294°
08	75° - 84°	30	295° - 304°
09	85° - 94°	31	305° - 314°
10	95° - 104°	32	315° - 324°
11	105° - 114°	33	325° - 334°
12	115° - 124°	34	335° - 344°
13	125° - 134°	35	345° - 354°
14	135° - 144°	36	355° - 4°
15	145° - 154°		
16	155° - 164°	49	Waves confused, direction indeterminate (waves equal to or less than 4 3/4 metres)
17	165° - 174°		
18	175° - 184°		
19	185° - 194°		
20	195° - 204°		
21	205° - 214°	99	Waves confused, direction indeterminate (waves greater than 4 3/4 metres)
			Winds variable, or all directions or unknown

Table 8 is a combination of WMO Codes 0885 and 0877.

TABLE 25

Cloud Type (Genus)

WMO Code 0500 for recording cloud type (genus)

Code		
0	Cirrus	Ci
1	Cirrocumulus	Cc
2	Cirrostratus	Cs
3	Alto cumulus	Ac
4	Altostratus	As
5	Nimbostratus	Ns
6	Stratocumulus	Sc
7	Stratus	St
8	Cumulus	Cu
9	Cumulonimbus	Cb
x	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena	

TABLE 27

Visibility

WMO Code 4300 for recording visibility at surface

Code

- 0 Less than 50 metres (less than 55 yards)
- 1 50-200 metres (approx. 55-220 yards)
- 2 200-500 metres (approx. 220-550 yards)
- 3 500-1,000 metres (approx. 550 yards-5/8 n.m.)
- 4 1- 2 km (approx. 5/8-1 n.m.)
- 5 2- 4 km (approx. 1- 2 n.m.)
- 6 4-10 km (approx. 2- 6 n.m.)
- 7 10-20 km (approx. 6-12 n.m.)
- 8 20-50 km (approx. 12-30 n.m.)
- 9 50 km or more (30 n.m. or more)

STD - Scan Condition Code

- 0 - Processed prior to code
- 1 - From raw data
- 2 - Linear interpolation
- 3 - Vertical extrapolation, i.e. if data start at 7 meters, the values from 7 meter depth are to be used at all depths listed above 7 meters
- 4.- Averaged
- 9 - Temperature, Salinity, and Sigma-t not given

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 S.R. 5319	February 1976		NRCC/NOIC	✓					
Beckman RS7-C	February 1976		NRCC/NOIC	✓					
<p><u>NOTE:</u> All STD or CTD units are field corrected by comparison with discrete samples to increase accuracy over standard laboratory calibration</p>									

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7601433	F022	TR0096	0081	31I7	32MW	1976/02/22	001IMS	300175
7601433	C022	329037	0081	31I7	32MW	1976/02/22	TR0096	300176

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7601433	F022	TR0096	32MW	88	13976	76/02/22	76/03/05
7601433	C022	329037	32MW	88	124	76/02/22	76/03/05

(2 rows affected)

DDF A:114

DATA DOCUMENTATION FORM

Cruise # 319637

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

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Data Management
Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99701

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

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT
00LIMS

4. PLATFORM NAME(S)
Moana Wave

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)
USA USA

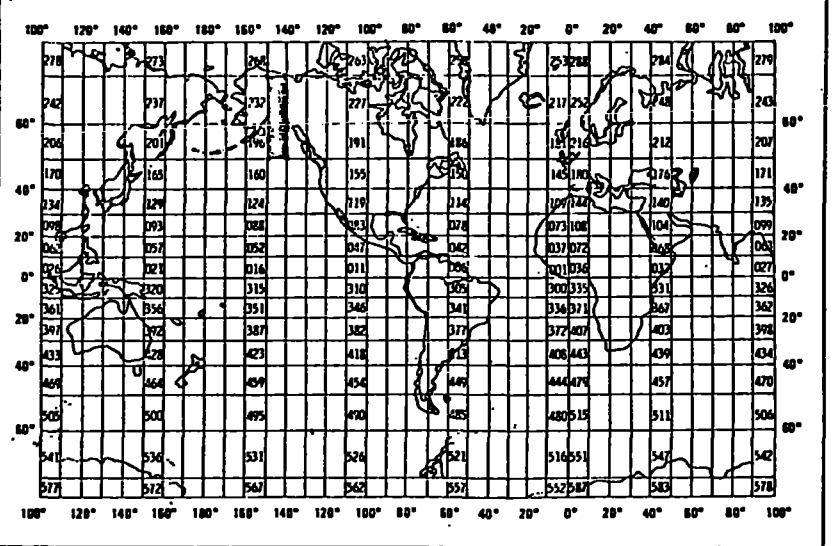
7. DATES
FROM: 2/1/76 TO: 3/5/76

8. ARE DATA PROPRIETARY?
[X] NO [] YES
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH

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

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



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°/∞	Model 9040 CTD. S.R. 5319 (Main Instrument)		Description of basic processing attached
Temperature	0.001°C	DSRT for field corrections (temperature)		
Depth	0.1m (1m = 1 db)	Beckman RS7-C for field corrections on salinity		

ORIGINATOR TAPE

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

5. RECORDING MODE <input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 0.5 - 0.6 Inch
	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> Octal 23

6. NUMBER OF TRACKS (CHANNELS)
 SEVEN
 NINE

7. PARITY
 ODD
 EVEN

8. DENSITY
 200 BPI 1600 BPI
 556 BPI
 800 BPI

Institute of Marine Science - University of Alaska - OCSEAP File Type 022; STD Data; Originator Cruise No. MW001; Stations 1-88

TAPE # ~~11~~
13000

Internal Label:
GE 600 BTL GE PHX MW1-1
MW1-1 0001 76155 000IMS-FINAL

12. PHYSICAL BLOCK LENGTH IN BYTES 15 20 Word Records/Block
13. LENGTH OF BYTES IN BITS 6 Bits/BCD Character 6 Characters/Word

RECORD FORMAT DESCRIPTION STD

2-20-76

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bit, byte)	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'
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 } GMT	
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	
Barometric pressure	60	5	Bytes	I5	When above equals '1', the depth interval, to tenths of meters reported. Millibars to tenths	

RECORD FORMAT DESCRIPTION STD

2-20-76

RD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, 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	OCSEP Internal Location Code
Depth to bottom	108	5	Bytes	I5	To whole meters
Maximum depth of last	113	4	Bytes	I4	To whole meters
Cast					
nk	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.					

RECORD NAME Detail 2 Record (STD)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g., 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 NODC 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	
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

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

Three distinct record types: Text (1), Header (2), and Data (3)
 differentiated by byte 10 of every record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty space for description of file organization]

ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF&I Branch 634-7505
 ADDRESS NODC

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</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input 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>NAPIS Files PJT Vol II Tape #4234 Label = (10,NL) LRECL=120 BLKSIZE=6000</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>6000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>4</p>

TABLE 26

Cloud Amount

WMO Code 2700 for recording cloud amount

Code

0	0	0
1	1 okta or less, but not zero	$\frac{1}{10}$ or less, but not zero
2	2 oktas	$\frac{2}{10} - \frac{3}{10}$
3	3 oktas	$\frac{4}{10}$
4	4 oktas	$\frac{5}{10}$
5	5 oktas	$\frac{6}{10}$
6	6 oktas	$\frac{7}{10} - \frac{8}{10}$
7	7 oktas or more, but not 8 oktas	$\frac{9}{10}$ or more, but not $\frac{10}{10}$
8	8 oktas	$\frac{10}{10}$
9	Sky obscured, or cloud amount cannot be estimated	

TABLE 21

Present Weather

WMO Code 4501 for recording present weather

Code
figure

- 0 Clear (no cloud at any level)
- 1 Partly cloudy (scattered or broken)
- 2 Continuous layer(s) of cloud(s)
- 3 Sandstorm, duststorm, or blowing snow
- 4 Fog, thick dust or haze
- 5 Drizzle
- 6 Rain
- 7 Snow, or rain and snow mixed
- 8 Shower(s)
- 9 Thunderstorm(s)

TABLE 12

Sea State

WMO Code 3700 for Recording Sea State

Description	Height (†)		Code
	Feet*	Meters	
Calm-glassy	0	0	0
Calm-rippled	0 - $\frac{1}{3}$	0 - 0.1	1
Smooth-wavelet	$\frac{1}{3}$ - $1\frac{2}{3}$	0.1 - 0.5	2
Slight	$1\frac{2}{3}$ - 4	0.5 - 1.25	3
Moderate	4 - 8	1.25 - 2.5	4
Rough	8 - 13	2.5 - 4	5
Very rough	13 - 20	4 - 6	6
High	20 - 30	6 - 9	7
Very high	30 - 45	9 - 14	8
Phenomenal	> 45	> 14	9

(†) The average wave height as obtained from the larger well-formed waves of the wave system being observed.

* The exact bounding height is to be assigned for the lower code figure, e.g. a height of 4 meters is coded as 5.

TABLE 8

Direction

In tens of degrees from which waves and/or winds
are coming

Code		Code	
00	Calm (no waves - no motion)	22	215° - 224°
01	5° - 14°	23	225° - 234°
02	15° - 24°	24	235° - 244°
03	25° - 34°	25	245° - 254°
04	35° - 44°	26	255° - 264°
05	45° - 54°	27	265° - 274°
06	55° - 64°	28	275° - 284°
07	65° - 74°	29	285° - 294°
08	75° - 84°	30	295° - 304°
09	85° - 94°	31	305° - 314°
10	95° - 104°	32	315° - 324°
11	105° - 114°	33	325° - 334°
12	115° - 124°	34	335° - 344°
13	125° - 134°	35	345° - 354°
14	135° - 144°	36	355° - 4°
15	145° - 154°		
16	155° - 164°	49	Waves confused, direction indeterminate (waves equal to or less than $4\frac{3}{4}$ metres)
17	165° - 174°		
18	175° - 184°		
19	185° - 194°		
20	195° - 204°		
21	205° - 214°	99	Waves confused, direction indeterminate (waves greater than $4\frac{3}{4}$ metres) Winds variable, or all directions or unknown

Table 8 is a combination of WMO Codes 0885 and 0877.

TABLE 25

Cloud Type (Genus)

WMO Code 0500 for recording cloud type (genus)

Code

0	Cirrus	Ci
1	Cirrocumulus	Cc
2	Cirrostratus	Cs
3	Alto cumulus	Ac
4	Altostratus	As
5	Nimbostratus	Ns
6	Stratocumulus	Sc
7	Stratus	St
8	Cumulus	Cu
9	Cumulonimbus	Cb
x	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena	

TABLE 27

Visibility

WMO Code 4300 for recording visibility at surface

Code

0	Less than 50 metres	(less than 55 yards)
1	50-200 metres	(approx. 55-220 yards)
2	200-500 metres	(approx. 220-550 yards)
3	500-1,000 metres	(approx. 550 yards-5/8 n.m.)
4	1- 2 km	(approx. 5/8-1 n.m.)
5	2- 4 km	(approx. 1- 2 n.m.)
6	4-10 km	(approx. 2- 6 n.m.)
7	10-20 km	(approx. 6-12 n.m.)
8	20-50 km	(approx. 12-30 n.m.)
9	50 km or more	(30 n.m. or more)

STD - Scan Condition Code

- 0 - Processed prior to code
- 1 - From raw data
- 2 - Linear interpolation
- 3 - Vertical extrapolation, i.e. if data start at 7 meters, the values from 7 meter depth are to be used at all depths listed above 7 meters
- 4.- Averaged
- 9 - Temperature, Salinity, and Sigma-t not given.

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 S.R. 5319	February 1976		NRCC/NOIC	✓					
Beckman RS7-C	February 1976		NRCC/NOIC	✓					
<p>NOTE: All STD or CTD units are field corrected by comparison with discrete samples to increase accuracy over standard laboratory calibration</p>									

7601433

NANSEN REF. #

329037

MULDARS TRACK #

TR0096

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

43

Change Month and Day
to 02 and 28, respectively.
Delete Station Time (HOUR + MIN)

47 thru 58

Change Month and Day
to 02 and 29, respectively.

65

Change Month to 03

76

Delete Station Time (HOUR
+ MINUTES)

Corrections made 9/21/83

ACCESSION # 76-1433

TR 0096

CRUISE	VESSEL	PARAMETER	COUNT	BEGIN & END DATES	TEN DEG, SQUARES
00145	MOANA WAVE	STATIONS	88	760201 760305	N50+ W140+ N60+ W140+
		BAROMETRIC PRESSURE	88	760201 760305	N50+ W140+ N60+ W140+
		WET BULB TEMPERATURE	75	760201 760305	N50+ W140+ N60+ W140+
		DRY BULB TEMPERATURE	75	760201 760305	N50+ W140+ N60+ W140+
		WIND DIRECTION	88	760201 760305	N50+ W140+ N60+ W140+
		WIND SPEED	88	760201 760305	N50+ W140+ N60+ W140+
		WEATHER CODE	84	760201 760305	N50+ W140+ N60+ W140+
		SEA STATE CODE	88	760201 760305	N50+ W140+ N60+ W140+
		VISIBILITY CODE	81	760201 760305	N50+ W140+ N60+ W140+
		CLOUD TYPE CODE	28	760222 760305	N50+ W140+
		CLOUD AMOUNT CODE	29	760222 760305	N50+ W140+ N60+ W140+
		DEPTH	34048	760201 760305	N50+ W140+ N60+ W140+
		TEMPERATURE	34040	760201 760305	N50+ W140+ N60+ W140+
		SALINITY	34040	760201 760305	N50+ W140+ N60+ W140+
		DEPTH	0	0 0	
		TEMPERATURE OXYGEN	0	0 0	
		TEMPERATURE TRANSMISSIVITY	0	0 0	

Passwörd:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7601433	F022	TR0096	0081	31I7	32MW	1976/02/22	001IMS	300175
7601433	C022	329037	0081	31I7	32MW	1976/02/22	TR0096	300176

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7601433	F022	TR0096	32MW	88	13976	76/02/22	76/03/05
7601433	C022	329037	32MW	88	124	76/02/22	76/03/05

(2 rows affected)