ACCESSION NUMBER 8900170

8900170 Proj = 0194

DATA DOCUMENTATION FORM

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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.

RECEIVED JUN 05 1989 145

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

Oregon State University
College of Oceanography
Corvallis, OR 97331

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

PER (Subarctic Pacific Ecosystem Research)

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

211, 216, 220, 223

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
Thomas G. Thompson	Ship	U.S.	U.S.	6/3/87 9/12/87 5/7/88 8/4/88	6/25/87 10/5/87 5/30/88 8/29/88

8. ARE DATA PROPRIETARY?

☒ 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?)

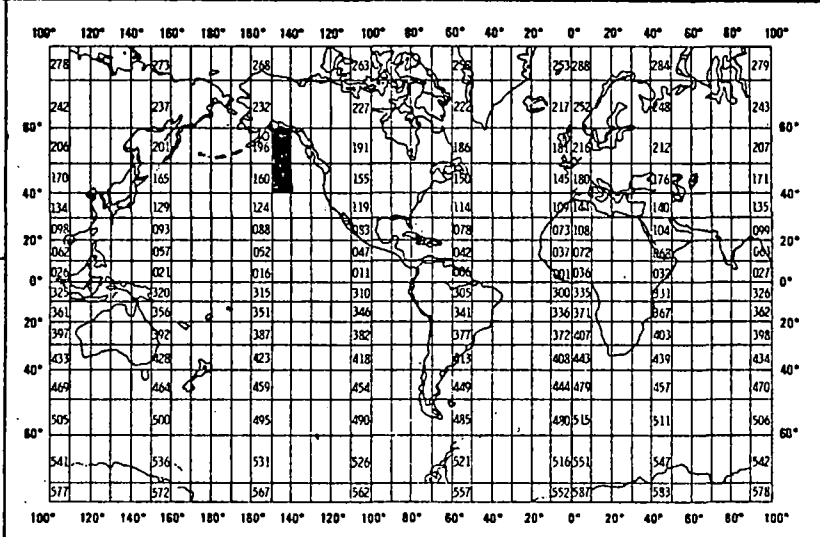
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

harles B. Miller
503) 754-4524

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

GENERAL AREA



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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
Pressure	db.	Neil Brown Mark III CTD	See data report	Values averaged over 1db. intervals
Temperature	°C			
Salinity				

NOAA FORM 24-13

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

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self-documenting in that each field has a readable label. See Sample file dump in Record Format Description section.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Each data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contain the basic sampling information for that station. The remaining records are data records. Each record is 35 characters long.
As the last physical block of each file may contain fewer than 100 records, the block is padded out to 3500 characters using the ASCII "Null" character (decimal 0).

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Anne Raich (503) 754-4524
ADDRESS Oregon State University, College of Oceanography
Corvallis, OR 97331

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 ☒ NRZI

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*)
NODC 3db REPORT FILES 5/12/89
SUPER ~~I~~ 3.485
9 TRACK 1600 BPI ASCII ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
3500 (35 char/rec, 100 rec/block)

13. LENGTH OF BYTES IN BITS

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RECORD FORMAT DESCRIPTION

D NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 1st Header Record				(all fields right justified)	
Field Label	1	6		6H	Always "ΦSHIPΦ" (Φ=blank)
Ship Code	7	2		A2	TT = R/V Thomas G. Thompson
Field Label	9	7		7H	Always "ΦCRUISΦ"
Cruise Number	16	3		I3	Cruise No.
Field Label	19	6		6H	Always "ΦSTAT:"
Station Number	25	4		I4	Station No.
Field Label	29	4		4H	Always "ΦC#:"
Cast Number	33	3		I3	Cast Number - always blank
	total =	35			
Description of 2nd Header Record				(all fields right justified)	
Field Label	1	6		6H	Always "ΦDATEΦ" (Φ=blank)
Date:					
Year	7	2		I2	Last 2 digits of year
Field Separator	9	1		1H	Always "-"
Month	10	2		I2	Month (1-12)
Field Separator	12	1		1H	Always "-"
Day	13	2		I2	Day (1-31)
Field Label	15	8		8H	Always "ΦΦTIME:Φ"
Time	23	4		I4	Time (GMT) - 24 hour clock
Time Label	27	2		2H	Always "ΦG" - Symbol for GMT
Blank	29	7			
	total =	35			
Description of 3rd Header Record				(all fields right justified)	
Field Label	1	5		5H	always "ΦLATΦ" (Φ=blank)
Latitude	6	8		A8	Latitude in degrees and minutes to tenths of a minute (negative for South Latitudes)
Blank	14	3			
Field Label	17	3		3H	Always "LGΦ"
Longitude	20	9		A9	Longitude in degrees and minutes to tenths of a minute (negative for West Longitudes)
Blank	29	7		7H	
	total =	35			

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RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 4th Header Record				(all fields right justified)	
Field Label	1	10		10H	Always "␣MAX.␣PRS = " (␣=blank)
Maximum Pressure	11	6		F6.0	Maximum pressure reached by the CTD cast, pressure in decibars
Field Label	17	13		13H	Always "␣DB␣␣DEPTH = ␣␣"
Depth of cast	30	4		F4.0	Maximum depth of CTD cast in meters
Field Label	34	2		2H	Always "␣M"
	total	= 35			
Description of 5th Header Record				(all fields right justified)	
Field Label	1	8		8H	Always "␣AVER␣␣␣"
Averaging Interval	9	3		F3.0	All data reduced to a common reporting interval, in decibars; always 1.0
Field Label	12	6		6H	Always "␣INST␣"
Instrument No.	18	4		I4	CTD Instrument No. - always "2776"
Field Label	22	7		7H	Always "␣RATE␣␣"
Sampling Rate	29	5		F5.0	Sampling Rate in Hertz (samples/second) - always "32.00"
Field Label	34	2		2H	Always "HZ"
	total =	35			
Description of 6th Header Record				(all fields right justified)	
Field Label	1	5		5H	Always "␣OBS="
Total Data Cycles	6	6		I6	Total number of data cycles this station
Field Label	12	4		4H	Always "␣FMT"
FORTRAN Format	16	20		20H	Always "(F7.1,2F8.4,F6.2,I6)"
	total =	35			

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RECORD FORMAT DESCRIPTION

RECORD NAME _____

FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 7th Header Record					
If tape is dumped, this record provides column headings on the listing. It contains no station information. (See sample listing on the next page.)					
Description of Data Records					
Pressure	1	7		F7.1	Pressure in decibars
Temperature	8	8		F8.4	Temperature in degrees C.
Salinity	16	8		F8.4	Salinity in parts/thousand
Oxygen	24	6		F6.2	Not used - always "-9.99"
Quality Word	30	6		I6	Not used - always "1"
	total	=35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING

SHIP TT CRUIS 216 STAT:1300 C#:
DATE 87-09-19 TIME: 1400 G
LAT 49 59.7 LG -145 1.0
MAX. PRS= 147. DB DEPTH= 150. M
AVER 1.0 INST 2776 RATE 32.00HZ
OBS= 146 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	11.6905	32.4582	-9.99	1
3.0	11.6910	32.4557	-9.99	1
4.0	11.6909	32.4547	-9.99	1
5.0	11.6911	32.4544	-9.99	1
6.0	11.6909	32.4541	-9.99	1
7.0	11.6899	32.4544	-9.99	1
8.0	11.6924	32.4540	-9.99	1
9.0	11.6924	32.4538	-9.99	1
10.0	11.6929	32.4541	-9.99	1
11.0	11.6938	32.4539	-9.99	1
12.0	11.6937	32.4535	-9.99	1
13.0	11.6939	32.4529	-9.99	1
14.0	11.6941	32.4527	-9.99	1
15.0	11.6931	32.4528	-9.99	1
16.0	11.6933	32.4524	-9.99	1
17.0	11.6943	32.4518	-9.99	1
18.0	11.6940	32.4515	-9.99	1
19.0	11.6940	32.4519	-9.99	1
20.0	11.6948	32.4514	-9.99	1
21.0	11.6946	32.4517	-9.99	1
22.0	11.6937	32.4515	-9.99	1
23.0	11.6938	32.4508	-9.99	1
24.0	11.6935	32.4504	-9.99	1
25.0	11.6940	32.4502	-9.99	1
26.0	11.6888	32.4506	-9.99	1
27.0	11.6869	32.4508	-9.99	1
28.0	11.6877	32.4504	-9.99	1
29.0	11.6873	32.4506	-9.99	1
30.0	11.6863	32.4501	-9.99	1
31.0	11.6862	32.4498	-9.99	1
32.0	11.6871	32.4498	-9.99	1
33.0	11.6854	32.4490	-9.99	1
34.0	11.6683	32.4488	-9.99	1
35.0	11.6514	32.4520	-9.99	1
36.0	11.6591	32.4510	-9.99	1
37.0	11.6424	32.4495	-9.99	1
38.0	11.6200	32.4528	-9.99	1
39.0	11.6028	32.4523	-9.99	1
40.0	11.5752	32.4533	-9.99	1

D. INSTRUMENT CALIBRATION

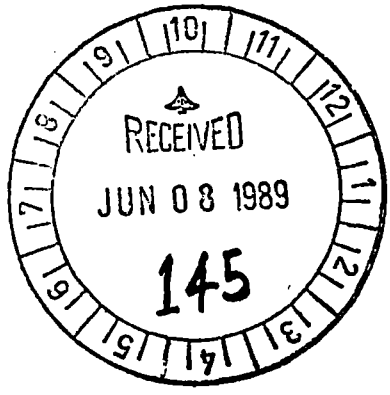
This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (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 (√)	(√)
Neil Brown Mark III CTD # 2776	3/18/88		Northwest Regional Calibration Center		✓				

NOAA FORM 24-13

Directory of NODC Tape
SUPER 3

```
 1  SHIP TT CRUIS 211 STAT:  811 C#:
 2  SHIP TT CRUIS 211 STAT:  801 C#:
 3  SHIP TT CRUIS 211 STAT:  803 C#:
 4  SHIP TT CRUIS 211 STAT:  802 C#:
 5  SHIP TT CRUIS 211 STAT:  806 C#:
 6  SHIP TT CRUIS 211 STAT:  804 C#:
 7  SHIP TT CRUIS 211 STAT:  810 C#:
 8  SHIP TT CRUIS 211 STAT:  813 C#:
 9  SHIP TT CRUIS 211 STAT:  890 C#:
10  SHIP TT CRUIS 211 STAT:  805 C#:
11  SHIP TT CRUIS 211 STAT:  816 C#:
12  SHIP TT CRUIS 211 STAT:  807 C#:
13  SHIP TT CRUIS 211 STAT:  814 C#:
14  SHIP TT CRUIS 211 STAT:  808 C#:
15  SHIP TT CRUIS 211 STAT:  809 C#:
16  SHIP TT CRUIS 211 STAT:  815 C#:
17  SHIP TT CRUIS 211 STAT:  817 C#:
18  SHIP TT CRUIS 211 STAT:  818 C#:
19  SHIP TT CRUIS 211 STAT:  903 C#:
20  SHIP TT CRUIS 211 STAT:  990 C#:
21  SHIP TT CRUIS 211 STAT:  906 C#:
22  SHIP TT CRUIS 211 STAT:  912 C#:
23  SHIP TT CRUIS 211 STAT:  910 C#:
24  SHIP TT CRUIS 211 STAT:  904 C#:
25  SHIP TT CRUIS 211 STAT:  914 C#:
26  SHIP TT CRUIS 211 STAT:  919 C#:
27  SHIP TT CRUIS 211 STAT:  907 C#:
28  SHIP TT CRUIS 211 STAT:  913 C#:
29  SHIP TT CRUIS 211 STAT:  901 C#:
30  SHIP TT CRUIS 211 STAT:  908 C#:
31  SHIP TT CRUIS 211 STAT:  909 C#:
32  SHIP TT CRUIS 211 STAT:  915 C#:
33  SHIP TT CRUIS 211 STAT:  911 C#:
34  SHIP TT CRUIS 211 STAT:  916 C#:
35  SHIP TT CRUIS 211 STAT:  918 C#:
36  SHIP TT CRUIS 211 STAT:  920 C#:
37  SHIP TT CRUIS 211 STAT:  921 C#:
38  SHIP TT CRUIS 211 STAT: 1007 C#:
39  SHIP TT CRUIS 211 STAT: 1000 C#:
40  SHIP TT CRUIS 211 STAT: 1008 C#:
41  SHIP TT CRUIS 211 STAT: 1011 C#:
42  SHIP TT CRUIS 211 STAT: 1002 C#:
43  SHIP TT CRUIS 211 STAT: 1003 C#:
44  SHIP TT CRUIS 211 STAT: 1005 C#:
45  SHIP TT CRUIS 211 STAT: 1012 C#:
46  SHIP TT CRUIS 211 STAT: 1004 C#:
47  SHIP TT CRUIS 211 STAT: 1006 C#:
48  SHIP TT CRUIS 211 STAT: 1013 C#:
49  SHIP TT CRUIS 211 STAT: 1009 C#:
50  SHIP TT CRUIS 211 STAT: 1014 C#:
51  SHIP TT CRUIS 211 STAT: 1103 C#:
52  SHIP TT CRUIS 211 STAT: 1105 C#:
53  SHIP TT CRUIS 211 STAT: 1107 C#:
54  SHIP TT CRUIS 211 STAT: 1113 C#:
55  SHIP TT CRUIS 211 STAT: 1101 C#:
56  SHIP TT CRUIS 211 STAT: 1106 C#:
57  SHIP TT CRUIS 211 STAT: 1102 C#:
```



SHIP TT CRUIS 211 STAT:1104 C#:
SHIP TT CRUIS 211 STAT:1108 C#:
SHIP TT CRUIS 211 STAT:1109 C#:
SHIP TT CRUIS 211 STAT:1110 C#:
SHIP TT CRUIS 211 STAT:1112 C#:
SHIP TT CRUIS 211 STAT:1115 C#:
SHIP TT CRUIS 211 STAT:1116 C#:

NUMBER

$9:0170

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

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

Oregon State University
College of Oceanography
Corvallis, OR 97331

RECEIVED
JUN 08 1989
145

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

IPER (Subarctic Pacific Ecosystem Research)

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

none

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
R/V Wecoma	Ship	U.S.	U.S.	4/30/84 8/2/84	5/21/84 8/23/84

8. ARE DATA PROPRIETARY?

☒ 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?)

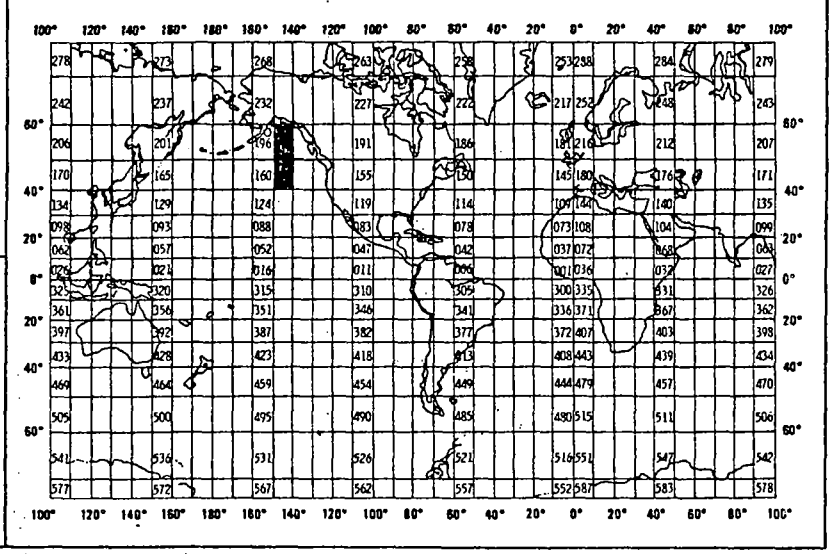
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Charles B. Miller
(503) 754-4524

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

GENERAL AREA



NOAA FORM 24-13

B. S[redacted] 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
Pressure Temperature Salinity	db. °C	Neil Brown Mark III-B CTD	See data report	Values averaged over 2 db. intervals

NOAA FORM 24-13

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

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self-documenting in that each field has a readable label. See sample file dump in Record Format Description section.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Each data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contain the basic sampling information for that station. The remaining records are data records. Each record is 35 characters long. As the last physical block of each file may contain fewer than 100 records, the block is padded out to 3500 characters using the ASCII "Null" character (decimal 0).

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Anne Raich (503) 754-4524
ADDRESS Oregon State University, College of Oceanography
Corvallis, OR 97331

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
☒ NRZI

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*)
NODC 2 db REPORT FILES 5/12/89
SUPER 192
9 TRACK 1600 BPI ASCII ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
3500 (35 char/rec, 100 rec/block)

13. LENGTH OF BYTES IN BITS

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RD NAME _____

FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 1st Header Record				(all fields right justified)	
Field Label	1	6		6H	Always "ϕSHIPϕ" (ϕ=blank)
Ship Code	7	2		A2	WC = R/V Wecoma
Field Label	9	7		7H	Always "ϕCRUISϕ"
Cruise Number	16	3		I3	Cruise No. - always blank
Field Label	19	6		6H	Always "ϕSTAT:"
Station Number	25	4		I4	Station No.
Field Label	29	4		4H	Always "ϕC#:"
Cast Number	33	3		I3	Cast Number - always blank
	total =	35			
ription of 2nd Header Record				(all fields right justified)	
d Label	1	6		6H	Always "ϕDATEϕ" (ϕ=blank)
Date: year	7	2		I2	Last 2 digits of year
Field Separator	9	1		1H	Always "-"
onth	10	2		I2	Month (1-12)
ield Separator	12	1		1H	Always "-"
ay	13	2		I2	Day (1-31)
Field Label	15	8		8H	Always "ϕϕTIME:ϕ"
Time	23	4		I4	Time (GMT) - 24 hour clock
Time Label	27	2		2H	Always "ϕZ" - Symbol for GMT or Zulu Time
Blank	29	7			
	total =	35			
Description of 3rd Header Record				Call fields	right justified)
Field Label	1	5		5H	always "ϕLATϕ" (ϕ=blank)
Latitude	6	9		A9	Latitude in degrees and minutes to hundredths of a minute
Field Label	15	4		4H	Always "ϕLGϕ"
Longitude	19	10		A10	Longitude in degrees and minutes to hundredths of a minute (negative for west latitudes)
Blank	29	7		7H	
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 4th Header Record				(all fields right justified)	
Field Label	1	10		10H	Always "bMAX. bPRS=" (b=blank)
Maximum Pressure	11	6		F6.0	Maximum pressure reached by the CTD cast, pressure in decibars
Field Label	17	12		12H	Always "bDB bb DEPTH =b"
Depth of Cast	29	5		F5.0	Water depth in meters
Field Label	34	2		2H	Always "bM"
	total =	35			
Description of 5th Header Record				(all fields	right justified)
Field Label	1	8		8H	Always "bAVER bbb"
Averaging Interval	9	3		F3.0	All data reduced to a common reporting interval, in decibars; always 2.0
Field Label	12	6		6H	Always "bINSTb"
Instrument No.	18	4		I4	CTD Instrument No.
Field Label	22	7		7H	always "bRATE bb"
Sampling Rate	29	5		F5.0	Sampling rate in Hertz (samples/second)
Field Label	34	2		2H	Always "HZ"
	total =	35			
Description of 6th Header Record				(all fields	right justified)
Field Label	1	5		5H	Always "bOBS="
Total Data Cycles	6	6		I6	Total number of data cycles this station
Field Label	12	4		4H	Always "bFMT"
FORTRAN Format	16	20		20H	Always "(F7.1, 2F8.4, F6.2, I6)"
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 1st Header Record					
If tape is dumped, this record provides column headings on the listing. It contains no station information. (See the sample listing on the next page)					
Description of Data Records					
Pressure	1	7		F7.1	Pressure in decibars
Temperature	8	8		F8.4	Temperature in degrees C.
Salinity	16	8		F8.4	Salinity in parts/thousand
Oxygen	24	6		F6.2	Oxygen in ml/l
Quality Word	30	6		I6	Not used- always "1"
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING

```
SHIP WC CRUIS      STAT: 313 C#:
DATE 84- 5-19  TIME: 1200 Z
LAT  50  4.10 LG -145  2.30
MAX. PRS=  305. DB  DEPTH= 4240. M
AVER   2.0 INST 2561 RATE  31.25HZ
OBS=   153 FMT(F7.1,2F8.4,F6.2,I6)
 PRES     TEMP     SALT    OXYG  QUAL
  1.0   7.0224  32.5602  -9.99     1
  3.0   7.0222  32.5605  -9.99     1
  5.0   7.0221  32.5603  -9.99     1
  7.0   7.0224  32.5604  -9.99     1
  9.0   7.0179  32.5599  -9.99     1
 11.0   7.0181  32.5596  -9.99     1
 13.0   7.0183  32.5599  -9.99     1
 15.0   7.0182  32.5602  -9.99     1
 17.0   7.0185  32.5600  -9.99     1
 19.0   7.0187  32.5602  -9.99     1
 21.0   7.0191  32.5600  -9.99     1
 23.0   7.0190  32.5596  -9.99     1
 25.0   7.0183  32.5598  -9.99     1
 27.0   7.0178  32.5601  -9.99     1
 29.0   7.0091  32.5607  -9.99     1
 31.0   7.0137  32.5603  -9.99     1
 33.0   7.0132  32.5603  -9.99     1
 35.0   7.0065  32.5608  -9.99     1
 37.0   7.0024  32.5608  -9.99     1
 39.0   7.0002  32.5610  -9.99     1
 41.0   6.9971  32.5613  -9.99     1
 43.0   6.9973  32.5608  -9.99     1
 45.0   6.9973  32.5608  -9.99     1
 47.0   6.9942  32.5614  -9.99     1
 49.0   6.9887  32.5617  -9.99     1
 51.0   6.9637  32.5627  -9.99     1
 53.0   6.9223  32.5643  -9.99     1
 55.0   6.8775  32.5647  -9.99     1
 57.0   6.8263  32.5673  -9.99     1
 59.0   6.7361  32.5747  -9.99     1
 61.0   6.6686  32.5767  -9.99     1
 63.0   6.6291  32.5758  -9.99     1
 65.0   6.6226  32.5760  -9.99     1
 67.0   6.6164  32.5763  -9.99     1
 69.0   6.6112  32.5772  -9.99     1
```

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 (√)	(√)
Neil Brown Mark III-B CTD # 2501	Nov. '82		Neil Brown Instruments	✓					

NOAA FORM 24-13

Directory of NODC Tape
SUPER 1 and 2

1	SHIP	WC CRUIS	STAT: 1 C#:
2	SHIP	WC CRUIS	STAT: 101 C#:
3	SHIP	WC CRUIS	STAT: 102 C#:
4	SHIP	WC CRUIS	STAT: 103 C#:
5	SHIP	WC CRUIS	STAT: 104 C#:
6	SHIP	WC CRUIS	STAT: 105 C#:
7	SHIP	WC CRUIS	STAT: 106 C#:
8	SHIP	WC CRUIS	STAT: 107 C#:
9	SHIP	WC CRUIS	STAT: 108 C#:
10	SHIP	WC CRUIS	STAT: 109 C#:
11	SHIP	WC CRUIS	STAT: 110 C#:
12	SHIP	WC CRUIS	STAT: 111 C#:
13	SHIP	WC CRUIS	STAT: 112 C#:
14	SHIP	WC CRUIS	STAT: 113 C#:
15	SHIP	WC CRUIS	STAT: 191 C#:
16	SHIP	WC CRUIS	STAT: 192 C#:
17	SHIP	WC CRUIS	STAT: 193 C#:
18	SHIP	WC CRUIS	STAT: 194 C#:
19	SHIP	WC CRUIS	STAT: 195 C#:
20	SHIP	WC CRUIS	STAT: 201 C#:
21	SHIP	WC CRUIS	STAT: 202 C#:
22	SHIP	WC CRUIS	STAT: 203 C#:
23	SHIP	WC CRUIS	STAT: 204 C#:
24	SHIP	WC CRUIS	STAT: 205 C#:
25	SHIP	WC CRUIS	STAT: 206 C#:
26	SHIP	WC CRUIS	STAT: 207 C#:
27	SHIP	WC CRUIS	STAT: 208 C#:
28	SHIP	WC CRUIS	STAT: 209 C#:
29	SHIP	WC CRUIS	STAT: 210 C#:
30	SHIP	WC CRUIS	STAT: 211 C#:
31	SHIP	WC CRUIS	STAT: 212 C#:
32	SHIP	WC CRUIS	STAT: 213 C#:
33	SHIP	WC CRUIS	STAT: 214 C#:
34	SHIP	WC CRUIS	STAT: 215 C#:
35	SHIP	WC CRUIS	STAT: 216 C#:
36	SHIP	WC CRUIS	STAT: 217 C#:
37	SHIP	WC CRUIS	STAT: 218 C#:
38	SHIP	WC CRUIS	STAT: 219 C#:
39	SHIP	WC CRUIS	STAT: 220 C#:
40	SHIP	WC CRUIS	STAT: 301 C#:
41	SHIP	WC CRUIS	STAT: 302 C#:
42	SHIP	WC CRUIS	STAT: 303 C#:
43	SHIP	WC CRUIS	STAT: 304 C#:
44	SHIP	WC CRUIS	STAT: 305 C#:
45	SHIP	WC CRUIS	STAT: 306 C#:
46	SHIP	WC CRUIS	STAT: 307 C#:
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48	SHIP	WC CRUIS	STAT: 309 C#:
49	SHIP	WC CRUIS	STAT: 310 C#:
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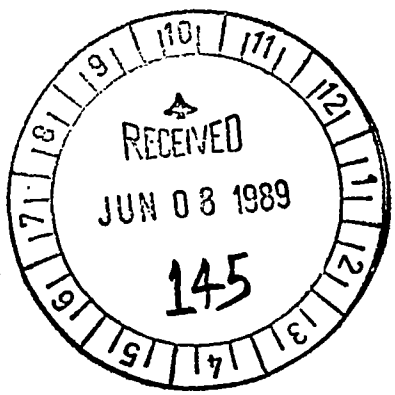
52	SHIP	WC CRUIS	STAT: 313 C#:
53	SHIP	WC CRUIS	STAT: 314 C#:
54	SHIP	WC CRUIS	STAT: 315 C#:
55	SHIP	WC CRUIS	STAT: 316 C#:
56	SHIP	WC CRUIS	STAT: 317 C#:
57	SHIP	WC CRUIS	STAT: 318 C#:



SHIP WC CRUIS STAT: 319 C#:
SHIP WC CRUIS STAT: 401 C#:
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SHIP WC CRUIS STAT: 616 C#:

11	SHIP	WC	CRUIS	STAT: 617 C#:
119	SHIP	WC	CRUIS	STAT: 618 C#:
120	SHIP	WC	CRUIS	STAT: 619 C#:
121	SHIP	WC	CRUIS	STAT: 620 C#:
122	SHIP	WC	CRUIS	STAT: 621 C#:
1	SHIP	WC	CRUIS	STAT: 622 C#:
1	SHIP	WC	CRUIS	STAT: 701 C#:
125	SHIP	WC	CRUIS	STAT: 702 C#:
126	SHIP	WC	CRUIS	STAT: 703 C#:
127	SHIP	WC	CRUIS	STAT: 704 C#:
128	SHIP	WC	CRUIS	STAT: 705 C#:
129	SHIP	WC	CRUIS	STAT: 706 C#:
130	SHIP	WC	CRUIS	STAT: 707 C#:
131	SHIP	WC	CRUIS	STAT: 708 C#:
132	SHIP	WC	CRUIS	STAT: 709 C#:
133	SHIP	WC	CRUIS	STAT: 709 C#:
134	SHIP	WC	CRUIS	STAT: 710 C#:
135	SHIP	WC	CRUIS	STAT: 711 C#:
136	SHIP	WC	CRUIS	STAT: 712 C#:
137	SHIP	WC	CRUIS	STAT: 713 C#:
138	SHIP	WC	CRUIS	STAT: 714 C#:
139	SHIP	WC	CRUIS	STAT: 715 C#:
140	SHIP	WC	CRUIS	STAT: 716 C#:
141	SHIP	WC	CRUIS	STAT: 717 C#:
142	SHIP	WC	CRUIS	STAT: 718 C#:
143	SHIP	WC	CRUIS	STAT: 718 C#:
1	SHIP	WC	CRUIS	STAT: 718 C#:

ACCESSION NUMBER	REFERENCE NUMBER	PROFORMAT	INST	PLATFORM	CRUISE ID	CRUISE START DATE	END DATE	NUM STATIONS	NUM RECORDS
8900170	319862	C022	3103	31TT	TV2952	06/03/87	06/25/87	63	4,894
8900170	319863	C022	3103	31TT	TV2953	07/06/87	07/06/87	1	62
8900170	319864	C022	3103	31TT	TV2954	09/12/87	10/05/87	88	4,547
8900170	319865	C022	3103	31TT	TV2955	05/04/88	05/30/88	107	5,393
8900170	319866	C022	3103	31TT	TV2956	08/04/88	09/05/88	97	5,310
8900170	329600	C022	3103	32WC	TV2950	05/02/84	05/21/84	57	2,385
8900170	329601	C022	3103	32WC	TV2951	08/02/84	08/23/84	86	3,490

499

8900170

... NO. [redacted] FILETYPE F022 TR. [redacted] O. [redacted] PROJECT IDENTIFICATION [redacted]

8900170

0194

319862-319866 329600-601

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	06/19/89	B.B	A00924	144	35	3500	31,500
ORIG. TAPE	06/19/89	B.B	A00925	64	35	3500	30,600
ORIG. TAPE	06/19/89	B.B	A00926	292	35	3500	94,200
	06/27/89	B.B.	W11284	144	35	3500	31,500
ITED TAPE	06/27/89	B.B.	W11175	64	35	3500	30,600
	06/27/89	B.B.	W10874	292	35	3500	94,200
ITED ~~DISK~~ Tape	7/18/89	R.P.S.	W15608 *	1	120	12000	26,081
ULCHEK							
ULCHEK							
R F022							
FINALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: Tapes W11284, W11175, W10874 are 9TRK, NL, 1600 bpi.

* Label = DNODC *SUPEROUT.

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

TS (TRACKS DELETED, FIELDS DELETED, ETC.)

NAMEEN REF. #

319862

MUIDARS TRACK #

TV2952

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TV2952)

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

None

Quality Indicators were applied to two stations

HANSEN REF. # 319863

MULDARS TRACK # TV2953

MONITOR: CONTACT SELKIRK

LOCATION OF F022 SOURCE ARCHIVES

RECORD ALL ERRORS FOUND

NONE

HANSEN REF. #
319864

MULDARS TRACK #
TV2954

MONITOR: CONTACT
S. KIRK

LOCATION OF F022 SOURCE
ARCHIVES

RECORD ALL ERRORS FOUND

NONE

HANSEN REF. # 319865

HULDARS TRACK # TV2955

MONITOR: CONTACT SELKIRK

LOCATION OF F022 SOURCE ARCHIVES

RECORD ALL ERRORS FOUND

34
79

85

BAD DEPTH TO BOTTOM (DELETE)

CHANGE DAT to 25.
(BECOMES CONSEC 83)

CHANGE CONG. DEGREES TO 144

CONSEC 80
81
82
83
79

BECOMES 79
80
81
82
83

Sort

8/23/89

HANSEN REF. # ~ 319866

MULDARS TRACK # TV2956

MONITOR: CONTACT SELKIRK

LOCATION OF F022 SOURCE ARCHIVES

RECORD ALL ERRORS FOUND

54.
82

DELETE BAD "DEPTH TO BOTTOM

CHANGE ~~LAT~~ LONG. DEGREES
FROM 014 TO 144

8/23/89

NIELSEN REF. #

329600

MILDARS TRACK #

TV2950

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TV2950)

RECORD ALL ERRORS FOUND

CONSEC(S)	ERRORS FOUND
15 ✓	Delete Station (Questionable Longitude)
49	Change Day from 19 to 18

8/23/89

NANSEN REF. #

329601

MILDARS TRACK #

TV2951

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TV2951)

RECORD ALL ERRORS FOUND

CONSEC(S)	ERRORS FOUND
6	Change Degrees of Long from 154° to 145° V
86	Consec 86 was added to Consec 85, and, therefore changed to Consec 85. The two Master Records were identical with respect to location and date-time.

MRL
8/23/89

Quality Indicators were applied to three stations

NOAA FORM 24-5
(8-73)

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

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO:	REFER TO
NOAA/NESDIS/NODC 1825 Connecticut Ave NW Washington DC 20235	ATTENTION E/OC13, Dr. Anthony R. Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

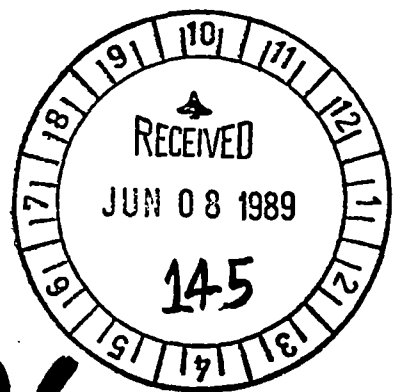
☒ ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

Enclosed, find documentation and three (3) magnetic Data tapes containing 500 stations of CTD data taken during six cruises of the Subarctic Pacific Ecosystems Research (SUPER) project. These are NSF funded data sets (contract nos. OCE8545921 and OCE8643328) and have been submitted by principal investigator Dr. Charles Miller and data manager Ms. Anne Raich, Oregon State University, oceanography dept.

Cruise dates cover cruise periods between April 30, 1984 through August 29, 1988.

Tape Specs. - 9 track, ASCII, odd parity, 1600 bpi.

cc: Dr. Charles B. Miller, OSU, oceanography
Ms. Anne Raich, OSU, oceanography



8900170

A00924, 925, 926

FORWARDED BY (Signature)	TITLE	DATE FORWARDED
Sid Stillwaugh	NODC Liaison Officer, Seattle	6/5/89
RECEIVED BY (Signature)	TITLE	DATE RECEIVED
F.J. Mitchell		

NOAA FORM 24-5 (8-73)

College of Oceanography

Oregon State University

Oceanography Admin Bldg 104
Corvallis, OR 97331-5503

(503) 754-3504

May 30, 1989

Sid Stillwaugh
Northwest Liaison Office
NOAA/NESDIS/Bin 15700/Bldg. 1
7600 Sand Point Way, NE
Seattle, WA 98115

Dear Mr. Stillwaugh:

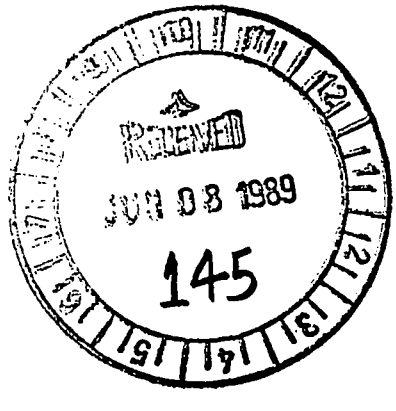
Here are the SUPER data tapes that you requested. The six cruises are on three tapes. There is one blank tape that I didn't use. If you have any questions about the tapes or the NODC forms, please call me at (503) 754-4524.

737

Sincerely,

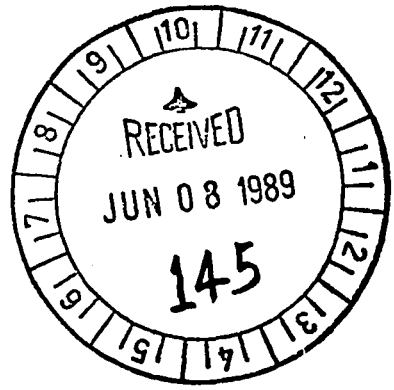
Anne Raich

Anne Raich



Directory of NODC Tape
SUPER 4, 5, and 6

1 SHIP TT CRUIS 216 STAT:1293 C#:
2 SHIP TT CRUIS 216 STAT:1212 C#:
3 SHIP TT CRUIS 216 STAT:1294 C#:
4 SHIP TT CRUIS 216 STAT:1200 C#:
5 SHIP TT CRUIS 216 STAT:0001 C#:
6 SHIP TT CRUIS 216 STAT:1201 C#:
7 SHIP TT CRUIS 216 STAT:1202 C#:
8 SHIP TT CRUIS 216 STAT:1203 C#:
9 SHIP TT CRUIS 216 STAT:1205 C#:
10 SHIP TT CRUIS 216 STAT:1210 C#:
11 SHIP TT CRUIS 216 STAT:1206 C#:
12 SHIP TT CRUIS 216 STAT:1207 C#:
13 SHIP TT CRUIS 216 STAT:1208 C#:
14 SHIP TT CRUIS 216 STAT:1209 C#:
15 SHIP TT CRUIS 216 STAT:1291 C#:
16 SHIP TT CRUIS 216 STAT:1292 C#:
17 SHIP TT CRUIS 216 STAT:1211 C#:
18 SHIP TT CRUIS 216 STAT:1393 C#:
19 SHIP TT CRUIS 216 STAT:1395 C#:
20 SHIP TT CRUIS 216 STAT:1315 C#:
21 SHIP TT CRUIS 216 STAT:1318 C#:
22 SHIP TT CRUIS 216 STAT:1300 C#:
23 SHIP TT CRUIS 216 STAT:1304 C#:
24 SHIP TT CRUIS 216 STAT:1301 C#:
25 SHIP TT CRUIS 216 STAT:1302 C#:
26 SHIP TT CRUIS 216 STAT:1303 C#:
27 SHIP TT CRUIS 216 STAT:1305 C#:
28 SHIP TT CRUIS 216 STAT:1308 C#:
29 SHIP TT CRUIS 216 STAT:1389 C#:
30 SHIP TT CRUIS 216 STAT:1307 C#:
31 SHIP TT CRUIS 216 STAT:1309 C#:
32 SHIP TT CRUIS 216 STAT:1310 C#:
33 SHIP TT CRUIS 216 STAT:1311 C#:
34 SHIP TT CRUIS 216 STAT:1317 C#:
35 SHIP TT CRUIS 216 STAT:1316 C#:
36 SHIP TT CRUIS 216 STAT:1412 C#:
37 SHIP TT CRUIS 216 STAT:1410 C#:
38 SHIP TT CRUIS 216 STAT:1409 C#:
39 SHIP TT CRUIS 216 STAT:1414 C#:
40 SHIP TT CRUIS 216 STAT:1411 C#:
41 SHIP TT CRUIS 216 STAT:1413 C#:
42 SHIP TT CRUIS 216 STAT:1416 C#:
43 SHIP TT CRUIS 216 STAT:1492 C#:
44 SHIP TT CRUIS 216 STAT:1417 C#:
45 SHIP TT CRUIS 216 STAT:1415 C#:
46 SHIP TT CRUIS 216 STAT:1497 C#:
47 SHIP TT CRUIS 216 STAT:1495 C#:
48 SHIP TT CRUIS 216 STAT:1421 C#:
49 SHIP TT CRUIS 216 STAT:1400 C#:
50 SHIP TT CRUIS 216 STAT:1406 C#:
51 SHIP TT CRUIS 216 STAT:1402 C#:
52 SHIP TT CRUIS 216 STAT:1490 C#:
53 SHIP TT CRUIS 216 STAT:1408 C#:
54 SHIP TT CRUIS 216 STAT:1403 C#:
55 SHIP TT CRUIS 216 STAT:1401 C#:
56 SHIP TT CRUIS 216 STAT:1404 C#:
57 SHIP TT CRUIS 216 STAT:1491 C#:



SHIP TT CRUIS 216 STAT:1405 C#:
SHIP TT CRUIS 216 STAT:1493 C#:
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SHIP TT CRUIS 216 STAT:1496 C#:
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SHIP TT CRUIS 216 STAT:1306 C#:
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8900170

07/20/89

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: 8900170 Ref: 319862 - 319866 sta. rec.

Low Resolution STD (C022)

Acc: 8900170 Ref: 329600 - 329601 sta. rec.

C/STD (F022)

Acc: 8900170 Ref: TV2950 - TV2956 499 sta. 26,081 rec.

Oregon State Univ.

(SUPER)

ACCESSION NUMBER	REFERENCE NUMBER	PROFORMAT	INST	PLATFORM	CRUISE ID	CRUISE START DATE	END DATE	NUM STATIONS	NUM RECORDS
8900170	TV2950	F022	3103	32WC		05/02/84	05/21/84	57	2,385
8900170	TV2951	F022	3103	32WC		08/02/84	08/23/84	86	3,490
8900170	TV2952	F022	3103	31TT	211	06/03/87	06/25/87	63	4,894
8900170	TV2953	F022	3103	31TT	211	07/06/87	07/06/87	1	62
8900170	TV2954	F022	3103	31TT	216	09/12/87	10/05/87	88	4,547
8900170	TV2955	F022	3103	31TT	220	05/04/88	05/30/88	107	5,393
8900170	TV2956	F022	3103	31TT	223	08/04/88	09/05/88	97	5,310

... NO. ~~8900170~~ [redacted] FILETYPE F022 TR[redacted] NO. PROJECT IDENTIFICATION [redacted]

8900170 CTD TV2950-2956 0194

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	06/19/89	B.B	A00924	144	35	3500	37,500
ORIG. TAPE	06/19/89	B.B	A00925	64	35	3500	30,600
ORIG TAPE	06/19/89	B.B	A00926	292	35	3500	94,200
	06/27/89	B.B.	W11284	144	35	3500	37,500
ITED TAPE	06/27/89	B.B.	W11175	64	35	3500	30,600
	06/27/89	B.B.	W10874	292	35	3500	94,200
ITED ~~DISK~~ TAPE	7-18-89	R.P.S.	W15608 *	1	120	12000	26,081
ULCHEK	7/26/89	CBS	SEDATA.F022TV2950	1	120	12000	26,171
ULCHEK							
R F022	7/26/89	CBS	F022MARY.TV2950/F022	1	120	12000	26,171
T FINALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: Tapes W11284, W11175, W10874 are 9TRK, NL, 1600 bpi.

* LABEL = DNODC*SUPEROUT.

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

DELETED 1 BAD TEMP, [redacted] SALINITY

DELETED -999 O_2

DELETED 1 98 MIN OF TIME

TS (TRACKS DELETED, FIELDS DELETED, ETC.)

NOAA FORM 24-5
(8-73)

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

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO:	REFER TO
NOAA/NESDIS/NODC 1825 Connecticut Ave NW Washington DC 20235	ATTENTION E/OC13, Dr. Anthony R. Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☒ ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

Enclosed, find documentation and three (3) magnetic Data tapes containing 500 stations of CTD data taken during six cruises of the Subarctic Pacific Ecosystems Research (SUPER) project. These are NSF funded data sets (contract nos. OCE8545921 and OCE8643328) and have been submitted by principal investigator Dr. Charles Miller and data manager Ms. Anne Raich, Oregon State University, oceanography dept.

Cruise dates cover cruise periods between April 30, 1984 through August 29, 1988.

Tape Specs. - 9 track, ASCII, odd parity, 1600 bpi.

cc: Dr. Charles B. Miller, OSU, oceanography
Ms. Anne Raich, OSU, oceanography

RECEIVED
JUN 08 1989
145

8900170

A00924, 925, 926

FORWARDED BY (Signature)	TITLE	DATE FORWARDED
Sid Stillwaugh	NODC Liaison Officer, Seattle	6/5/89
RECEIVED BY (Signature) F.J. Mitchell	TITLE	DATE RECEIVED

NOAA FORM 24-5 (8-73)

8900170

College of Oceanography

Oregon State University

Oceanography Admin Bldg 104
Corvallis, OR 97331-5503

(503) 754-3504

May 30, 1989

Sid Stillwaugh
Northwest Liaison Office
NOAA/NESDIS/Bin 15700/Bldg. 1
7600 Sand Point Way, NE
Seattle, WA 98115

Dear Mr. Stillwaugh:

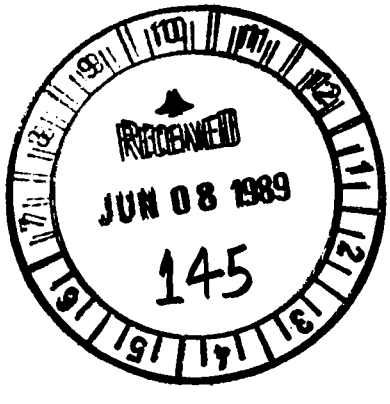
Here are the SUPER data tapes that you requested. The six cruises are on three tapes. There is one blank tape that I didn't use. If you have any questions about the tapes or the NODC forms, please call me at (503) 754-4524.

737

Sincerely,

Anne Raich

Anne Raich



ACCESSION NUMBER

8900170

DATA DOCUMENTATION FORM

Proj = 0194

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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.

RECEIVED
JUN 08 1989
145

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

Oregon State University
College of Oceanography
Corvallis, OR 97331

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

SUPER (Subarctic Pacific Ecosystem Research)

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

211, 216, 220, 223

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
Thomas G. Thompson	Ship	U.S.	U.S.	6/3/87	6/25/87
				9/12/87	10/5/87
				5/7/88	5/30/88
				8/4/88	8/29/88

8. ARE DATA PROPRIETARY?

☒ 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?)

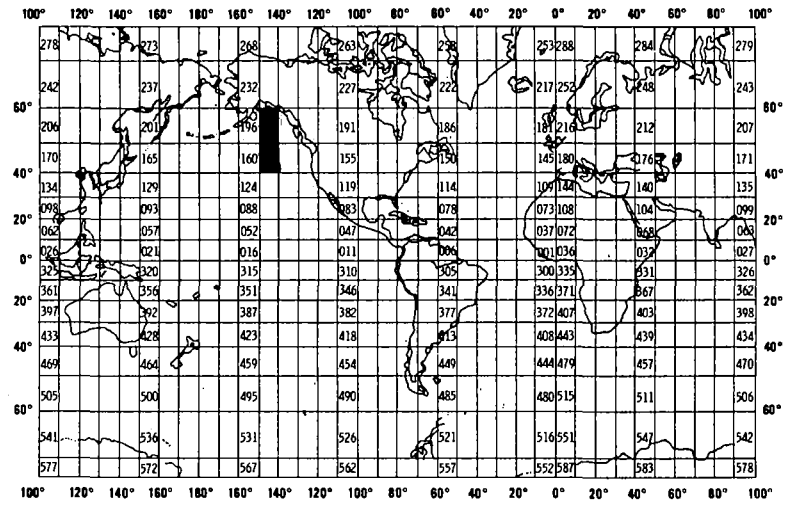
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Charles B. Miller
(503) 754-4524

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

GENERAL AREA



NOAA FORM 24-13

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

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	‰	Nansen bottles	Inductive salinometer (Hytech model S 510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	ϕ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING TWO PAGES FOR THIS INFORMATION)

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
Pressure Temperature Salinity	db. °C	Neil Brown Mark III CTD	See data report	Values averaged over 1db. intervals

NOAA FORM 24-13

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

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).

2. Describe briefly how your file is organized.

3-13. Self-explanatory.

14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.

15. Enter starting position of the field.

16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.

17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").

18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

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

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self-documenting in that each field has a readable label. See Sample file dump in Record Format Description section.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Each data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contain the basic sampling information for that station. The remaining records are data records. Each record is 35 characters long.
As the last physical block of each file may contain fewer than 100 records, the block is padded out to 3500 characters using the ASCII "Null" character (decimal 0).

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Anne Raich (503) 754-4524
ADDRESS Oregon State University, College of Oceanography
Corvallis, OR 97331

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 ☒ NRZI

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*)
NODC 3db REPORT FILES 5/12/89
SUPER ~~I~~ 3, 485
9 TRACK 1600 BPI ASCII ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
3500 (35 char/rec, 100 rec/block)

13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

D NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 1st Header Record				(all fields right justified)	
Field Label	1	6		6H	Always "␣SHIP␣" (␣=blank)
Ship Code	7	2		A2	TT = R/V Thomas G. Thompson
Field Label	9	7		7H	Always "␣CRUIS␣"
Cruise Number	16	3		I3	Cruise No.
Field Label	19	6		6H	Always "␣STAT:"
Station Number	25	4		I4	Station No.
Field Label	29	4		4H	Always "␣C#:"
Cast Number	33	3		I3	Cast Number - always blank
	total = 35				
cription of 2nd Header Record				(all fields right justified)	
Field Label	1	6		6H	Always "␣DATE␣" (␣=blank)
Date:					
Year	7	2		I2	Last 2 digits of year
Field Separator	9	1		1H	Always "-"
Month	10	2		I2	Month (1-12)
Field Separator	12	1		1H	Always "-"
Day	13	2		I2	Day (1-31)
Field Label	15	8		8H	Always "␣␣TIME:␣"
Time	23	4		I4	Time (GMT) - 24 hour clock
Time Label	27	2		2H	Always "␣G" - Symbol for GMT
Blank	29	7			
	total = 35				
Description of 3rd Header Record				(all fields right justified)	
Field Label	1	5		5H	always "␣LAT␣" (␣=blank)
Latitude	6	8		A8	Latitude in degrees and minutes to tenths of a minute (negative for South Latitudes)
Blank	14	3			
Field Label	17	3		3H	Always "LG␣"
gitude	20	9		A9	Longitude in degrees and minutes to tenths of a minute (negative for West Longitudes)
Blank	29	7		7H	
	total = 35				

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 4th Header Record				(all fields right justified)	
Field Label	1	10		10H	Always "bMAX.bPRS=" (b=blank)
Maximum Pressure	11	6		F6.0	Maximum pressure reached by the CTD cast, pressure in decibars
Field Label	17	13		13H	Always "bDBbbDEPTH=bb"
Depth of cast	30	4		F4.0	Maximum depth of CTD cast in meters
Field Label	34	2		2H	Always "bM"
	total	= 35			
Description of 5th Header Record				(all fields right justified)	
Field Label	1	8		8H	Always "bAVERbbb"
Averaging Interval	9	3		F3.0	All data reduced to a common reporting interval, in decibars; always 1.0
Field Label	12	6		6H	Always "bINSTb"
Instrument No.	18	4		I4	CTD Instrument No. - always "2776"
Field Label	22	7		7H	Always "bRATEbb"
Sampling Rate	29	5		F5.0	Sampling Rate in Hertz (samples/second) - always "32.00"
Field Label	34	2		2H	Always "HZ"
	total =	35			
Description of 6th Header Record				(all fields right justified)	
Field Label	1	5		5H	Always "bOBS="
Total Data Cycles	6	6		I6	Total number of data cycles this station
Field Label	12	4		4H	Always "bFMT"
FORTRAN Format	16	20		20H	Always "(F7.1,2F8.4,F6.2,I6)"
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 7th Header Record					
If tape is dumped, this record provides column headings on the listing. It contains no station information. (See sample listing on the next page.)					
Description of Data Records					
Pressure	1	7		F7.1	Pressure in decibars
Temperature	8	8		F8.4	Temperature in degrees C.
Salinity	16	8		F8.4	Salinity in parts/thousand
Oxygen	24	6		F6.2	Not used - always "-9.99"
Quality Word	30	6		I6	Not used - always "1"
	total = 35				

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING

SHIP TT CRUIS 216 STAT:1300 C#:
DATE 87-09-19 TIME: 1400 G
LAT 49 59.7 LG -145 1.0
MAX. PRS= 147. DB DEPTH= 150. M
AVER 1.0 INST 2776 RATE 32.00HZ
OBS= 146 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	11.6905	32.4582	-9.99	1
3.0	11.6910	32.4557	-9.99	1
4.0	11.6909	32.4547	-9.99	1
5.0	11.6911	32.4544	-9.99	1
6.0	11.6909	32.4541	-9.99	1
7.0	11.6899	32.4544	-9.99	1
8.0	11.6924	32.4540	-9.99	1
9.0	11.6924	32.4538	-9.99	1
10.0	11.6929	32.4541	-9.99	1
11.0	11.6938	32.4539	-9.99	1
12.0	11.6937	32.4535	-9.99	1
13.0	11.6939	32.4529	-9.99	1
14.0	11.6941	32.4527	-9.99	1
15.0	11.6931	32.4528	-9.99	1
16.0	11.6933	32.4524	-9.99	1
17.0	11.6943	32.4518	-9.99	1
18.0	11.6940	32.4515	-9.99	1
19.0	11.6940	32.4519	-9.99	1
20.0	11.6948	32.4514	-9.99	1
21.0	11.6946	32.4517	-9.99	1
22.0	11.6937	32.4515	-9.99	1
23.0	11.6938	32.4508	-9.99	1
24.0	11.6935	32.4504	-9.99	1
25.0	11.6940	32.4502	-9.99	1
26.0	11.6888	32.4506	-9.99	1
27.0	11.6869	32.4508	-9.99	1
28.0	11.6877	32.4504	-9.99	1
29.0	11.6873	32.4506	-9.99	1
30.0	11.6863	32.4501	-9.99	1
31.0	11.6862	32.4498	-9.99	1
32.0	11.6871	32.4498	-9.99	1
33.0	11.6854	32.4490	-9.99	1
34.0	11.6683	32.4488	-9.99	1
35.0	11.6514	32.4520	-9.99	1
36.0	11.6591	32.4510	-9.99	1
37.0	11.6424	32.4495	-9.99	1
38.0	11.6200	32.4528	-9.99	1
39.0	11.6028	32.4523	-9.99	1
40.0	11.5752	32.4533	-9.99	1

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 (√)	(√)
Neil Brown Mark III CTD # 2776	3/18/88		Northwest Regional Calibration Center		✓				

NOAA FORM 24-13

ADP FACILITIES REQUEST FORM

R NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
BURROWS	673-5236	EG12008N34H9	6/21/89	ASAP	11

QUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

COPY to 'W' Tape
Scan 'W' tape

INPUT MEDIUM	OUTPUT MEDIUM
PAPER CARD DISK (TAPE) DISKETTE OTHER(SPECIFY)	CARD DISK (PRINT) (TAPE) PLOT DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A00924		9	1600	ODD	NL	FB	35	3500	144
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	W11284		9	1600	ODD	NL	FB	35	3500	144
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please Send 'W' tape
to Ashville, N.C.

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
6235	6/27/89	09:35	09:55	C	COMPLETED BY JS

COMMENTS

LP NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
BURROWS	6735636	EG12203N3449	6/21/89	ASAP	11

MENT TO BE USED AND FUNCTION TO BE PREFORMED

Please Copy to 'W' tape

Scan 'W' tape

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) (TAPE) PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	800925		9	1600	ODD	NL	FB	35	3500	64
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	W11175		9	1600	ODD	NL	FB	35	3500	64
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS
Please send 'W' tape to Asheville, NC

ESTIMATED EXECUTION TIME

E731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
26[illegible]	6/27/89	09:15	09:34	C	COMPLETED BY J.S.

COMMENTS

NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
BURROWS	673-5436	EG12CBN2SH9	6/21/89	ASAP	11

SHIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Copy to 'W' tape

Scan 'W' tape

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) (TAPE) PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	000996		9	1600	ODD	NL	FB	35	3500	~~28~~ 26
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	W0514		9	1600	ODD	NL	FB	35	3500	26 ~~257~~
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS
Please Send 'W' tape to Ashville, NC

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
EC6887	12/27/89	07:30	08:00	C	COMPLETED BY JS

COMMENTS

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
[illegible]	[illegible]	[illegible]	6/16/89	[illegible]	11

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

TAPESCAN - Please Scan Tape for 11/780

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A02424		9	1600	ODD				3500	144
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please Return tape to Bin-11
↓
A02424

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
A02424	06/19/89	09:15	09:20	C	COMPLETED BY J.S.

COMMENTS

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
BURTONS	[illegible]	EG.[illegible]	6/16/89	[illegible]	11

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

TAPESCAN - Please Scan Tape Bin-11
S900170

INPUT MEDIUM	OUTPUT MEDIUM
PAPER CARD DISK (TAPE) DISKETTE OTHER(SPECIFY)	CARD DISK (PRINT) TAPE PLOT DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A02475		9	1600	ODD				3500	~~194~~ 94
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please Return tape to Bin-11
↓
A02475

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
6/19/89	6/19/89	09:15	09:20	C	COMPLETED BY J.S.

COMMENTS

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
BURRUS	[redacted]	[redacted]	6/11/89	ASAP	11

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

[redacted] Please Scan tape

8-9001-70

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00926		9	1600	ODD				3500	292
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
[redacted]	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A00926 to Bin - 11

ESTIMATED EXECUTION TIME

D731 USE ONLY

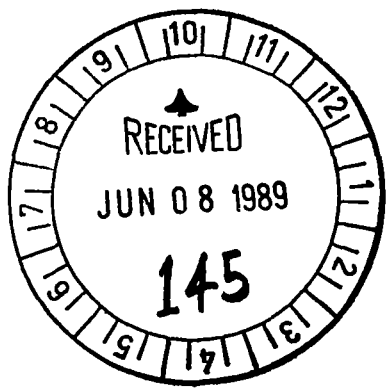
JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
[redacted]	06/19/89	09:45	10:00	C	COMPLETED BY J.S

COMMENTS

8900170

Directory of NODC Tape
SUPER 3

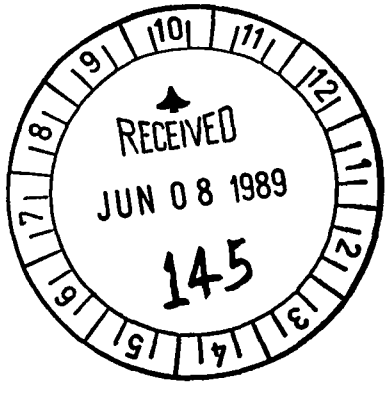
1 SHIP TT CRUIS 211 STAT: 811 C#:
2 SHIP TT CRUIS 211 STAT: 801 C#:
[redacted] SHIP TT CRUIS 211 STAT: 803 C#:
[redacted] SHIP TT CRUIS 211 STAT: 802 C#:
5 SHIP TT CRUIS 211 STAT: 806 C#:
6 SHIP TT CRUIS 211 STAT: 804 C#:
7 SHIP TT CRUIS 211 STAT: 810 C#:
8 SHIP TT CRUIS 211 STAT: 813 C#:
9 SHIP TT CRUIS 211 STAT: 890 C#:
10 SHIP TT CRUIS 211 STAT: 805 C#:
11 SHIP TT CRUIS 211 STAT: 816 C#:
12 SHIP TT CRUIS 211 STAT: 807 C#:
13 SHIP TT CRUIS 211 STAT: 814 C#:
14 SHIP TT CRUIS 211 STAT: 808 C#:
15 SHIP TT CRUIS 211 STAT: 809 C#:
16 SHIP TT CRUIS 211 STAT: 815 C#:
17 SHIP TT CRUIS 211 STAT: 817 C#:
18 SHIP TT CRUIS 211 STAT: 818 C#:
19 SHIP TT CRUIS 211 STAT: 903 C#:
20 SHIP TT CRUIS 211 STAT: 990 C#:
21 SHIP TT CRUIS 211 STAT: 906 C#:
22 SHIP TT CRUIS 211 STAT: 912 C#:
[redacted] SHIP TT CRUIS 211 STAT: 910 C#:
[redacted] SHIP TT CRUIS 211 STAT: 904 C#:
[redacted] SHIP TT CRUIS 211 STAT: 914 C#:
26 SHIP TT CRUIS 211 STAT: 919 C#:
27 SHIP TT CRUIS 211 STAT: 907 C#:
28 SHIP TT CRUIS 211 STAT: 913 C#:
[redacted] SHIP TT CRUIS 211 STAT: 901 C#:
[redacted] SHIP TT CRUIS 211 STAT: 908 C#:
31 SHIP TT CRUIS 211 STAT: 909 C#:
32 SHIP TT CRUIS 211 STAT: 915 C#:
33 SHIP TT CRUIS 211 STAT: 911 C#:
34 SHIP TT CRUIS 211 STAT: 916 C#:
35 SHIP TT CRUIS 211 STAT: 918 C#:
36 SHIP TT CRUIS 211 STAT: 920 C#:
37 SHIP TT CRUIS 211 STAT: 921 C#:
38 SHIP TT CRUIS 211 STAT:1007 C#:
39 SHIP TT CRUIS 211 STAT:1000 C#:
40 SHIP TT CRUIS 211 STAT:1008 C#:
41 SHIP TT CRUIS 211 STAT:1011 C#:
42 SHIP TT CRUIS 211 STAT:1002 C#:
43 SHIP TT CRUIS 211 STAT:1003 C#:
44 SHIP TT CRUIS 211 STAT:1005 C#:
45 SHIP TT CRUIS 211 STAT:1012 C#:
46 SHIP TT CRUIS 211 STAT:1004 C#:
47 SHIP TT CRUIS 211 STAT:1006 C#:
48 SHIP TT CRUIS 211 STAT:1013 C#:
[redacted] SHIP TT CRUIS 211 STAT:1009 C#:
[redacted] SHIP TT CRUIS 211 STAT:1014 C#:
[redacted] SHIP TT CRUIS 211 STAT:1103 C#:
52 SHIP TT CRUIS 211 STAT:1105 C#:
53 SHIP TT CRUIS 211 STAT:1107 C#:
54 SHIP TT CRUIS 211 STAT:1113 C#:
[redacted] SHIP TT CRUIS 211 STAT:1101 C#:
[redacted] SHIP TT CRUIS 211 STAT:1106 C#:
57 SHIP TT CRUIS 211 STAT:1102 C#:



[redacted] SHIP TT CRUIS 211 STAT:1104 C#:
59 SHIP TT CRUIS 211 STAT:1108 C#:
60 SHIP TT CRUIS 211 STAT:1109 C#:
61 SHIP TT CRUIS 211 STAT:1110 C#:
62 SHIP TT CRUIS 211 STAT:1112 C#:
[redacted] SHIP TT CRUIS 211 STAT:1115 C#:
[redacted] SHIP TT CRUIS 211 STAT:1116 C#:

Directory of NODC Tape
SUPER 4, 5, and 6

1 SHIP TT CRUIS 216 STAT:1293 C#:
2 SHIP TT CRUIS 216 STAT:1212 C#:
[redacted] SHIP TT CRUIS 216 STAT:1294 C#:
[redacted] SHIP TT CRUIS 216 STAT:1200 C#:
5 SHIP TT CRUIS 216 STAT:0001 C#:
6 SHIP TT CRUIS 216 STAT:1201 C#:
7 SHIP TT CRUIS 216 STAT:1202 C#:
8 SHIP TT CRUIS 216 STAT:1203 C#:
9 SHIP TT CRUIS 216 STAT:1205 C#:
10 SHIP TT CRUIS 216 STAT:1210 C#:
11 SHIP TT CRUIS 216 STAT:1206 C#:
12 SHIP TT CRUIS 216 STAT:1207 C#:
13 SHIP TT CRUIS 216 STAT:1208 C#:
14 SHIP TT CRUIS 216 STAT:1209 C#:
15 SHIP TT CRUIS 216 STAT:1291 C#:
16 SHIP TT CRUIS 216 STAT:1292 C#:
17 SHIP TT CRUIS 216 STAT:1211 C#:
18 SHIP TT CRUIS 216 STAT:1393 C#:
19 SHIP TT CRUIS 216 STAT:1395 C#:
20 SHIP TT CRUIS 216 STAT:1315 C#:
21 SHIP TT CRUIS 216 STAT:1318 C#:
22 SHIP TT CRUIS 216 STAT:1300 C#:
[redacted] SHIP TT CRUIS 216 STAT:1304 C#:
[redacted] SHIP TT CRUIS 216 STAT:1301 C#:
[redacted] SHIP TT CRUIS 216 STAT:1302 C#:
26 SHIP TT CRUIS 216 STAT:1303 C#:
27 SHIP TT CRUIS 216 STAT:1305 C#:
28 SHIP TT CRUIS 216 STAT:1308 C#:
[redacted] SHIP TT CRUIS 216 STAT:1389 C#:
[redacted] SHIP TT CRUIS 216 STAT:1307 C#:
31 SHIP TT CRUIS 216 STAT:1309 C#:
32 SHIP TT CRUIS 216 STAT:1310 C#:
33 SHIP TT CRUIS 216 STAT:1311 C#:
34 SHIP TT CRUIS 216 STAT:1317 C#:
35 SHIP TT CRUIS 216 STAT:1316 C#:
36 SHIP TT CRUIS 216 STAT:1412 C#:
37 SHIP TT CRUIS 216 STAT:1410 C#:
38 SHIP TT CRUIS 216 STAT:1409 C#:
39 SHIP TT CRUIS 216 STAT:1414 C#:
40 SHIP TT CRUIS 216 STAT:1411 C#:
41 SHIP TT CRUIS 216 STAT:1413 C#:
42 SHIP TT CRUIS 216 STAT:1416 C#:
43 SHIP TT CRUIS 216 STAT:1492 C#:
44 SHIP TT CRUIS 216 STAT:1417 C#:
45 SHIP TT CRUIS 216 STAT:1415 C#:
46 SHIP TT CRUIS 216 STAT:1497 C#:
47 SHIP TT CRUIS 216 STAT:1495 C#:
48 SHIP TT CRUIS 216 STAT:1421 C#:
[redacted] SHIP TT CRUIS 216 STAT:1400 C#:
[redacted] SHIP TT CRUIS 216 STAT:1406 C#:
[redacted] SHIP TT CRUIS 216 STAT:1402 C#:
52 SHIP TT CRUIS 216 STAT:1490 C#:
53 SHIP TT CRUIS 216 STAT:1408 C#:
54 SHIP TT CRUIS 216 STAT:1403 C#:
[redacted] SHIP TT CRUIS 216 STAT:1401 C#:
[redacted] SHIP TT CRUIS 216 STAT:1404 C#:
57 SHIP TT CRUIS 216 STAT:1491 C#:



SHIP TT CRUIS 216 STAT:1405 C#:
SHIP TT CRUIS 216 STAT:1493 C#:
60 SHIP TT CRUIS 216 STAT:1407 C#:
61 SHIP TT CRUIS 216 STAT:1418 C#:
62 SHIP TT CRUIS 216 STAT:1494 C#:
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SHIP TT CRUIS 216 STAT:1496 C#:
65 SHIP TT CRUIS 216 STAT:1419 C#:
66 SHIP TT CRUIS 216 STAT:1306 C#:
67 SHIP TT CRUIS 216 STAT:1392 C#:
68 SHIP TT CRUIS 216 STAT:1390 C#:
69 SHIP TT CRUIS 216 STAT:1510 C#:
70 SHIP TT CRUIS 216 STAT:1506 C#:
71 SHIP TT CRUIS 216 STAT:1312 C#:
72 SHIP TT CRUIS 216 STAT:1511 C#:
73 SHIP TT CRUIS 216 STAT:1505 C#:
74 SHIP TT CRUIS 216 STAT:1502 C#:
75 SHIP TT CRUIS 216 STAT:1503 C#:
76 SHIP TT CRUIS 216 STAT:1500 C#:
77 SHIP TT CRUIS 216 STAT:1507 C#:
78 SHIP TT CRUIS 216 STAT:1509 C#:
79 SHIP TT CRUIS 216 STAT:1590 C#:
80 SHIP TT CRUIS 216 STAT:1504 C#:
81 SHIP TT CRUIS 216 STAT:1592 C#:
82 SHIP TT CRUIS 216 STAT:1501 C#:
SHIP TT CRUIS 216 STAT:1508 C#:
SHIP TT CRUIS 216 STAT:1313 C#:
SHIP TT CRUIS 216 STAT:1512 C#:
86 SHIP TT CRUIS 216 STAT:1314 C#:
87 SHIP TT CRUIS 216 STAT:1591 C#:
88 SHIP TT CRUIS 216 STAT:1391 C#:
SHIP TT CRUIS 220 STAT:1693 C#:
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91 SHIP TT CRUIS 220 STAT:1603 C#:
92 SHIP TT CRUIS 220 STAT:1605 C#:
93 SHIP TT CRUIS 220 STAT:1690 C#:
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97 SHIP TT CRUIS 220 STAT:1609 C#:
98 SHIP TT CRUIS 220 STAT:1692 C#:
99 SHIP TT CRUIS 220 STAT:1612 C#:
100 SHIP TT CRUIS 220 STAT:1694 C#:
101 SHIP TT CRUIS 220 STAT:1616 C#:
102 SHIP TT CRUIS 220 STAT:1696 C#:
103 SHIP TT CRUIS 220 STAT:0000 C#:
104 SHIP TT CRUIS 220 STAT:1601 C#:
105 SHIP TT CRUIS 220 STAT:1604 C#:
106 SHIP TT CRUIS 220 STAT:1691 C#:
107 SHIP TT CRUIS 220 STAT:1611 C#:
108 SHIP TT CRUIS 220 STAT:1617 C#:
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112 SHIP TT CRUIS 220 STAT:1695 C#:
113 SHIP TT CRUIS 220 STAT:1615 C#:
114 SHIP TT CRUIS 220 STAT:1620 C#:
SHIP TT CRUIS 220 STAT:1621 C#:
SHIP TT CRUIS 220 STAT:1701 C#:
117 SHIP TT CRUIS 220 STAT:1702 C#:

SHIP TT CRUIS 220 STAT:1703 C#:
SHIP TT CRUIS 220 STAT:1790 C#:
120 SHIP TT CRUIS 220 STAT:1704 C#:
121 SHIP TT CRUIS 220 STAT:1791 C#:
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126 SHIP TT CRUIS 220 STAT:1792 C#:
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130 SHIP TT CRUIS 220 STAT:1794 C#:
131 SHIP TT CRUIS 220 STAT:1712 C#:
132 SHIP TT CRUIS 220 STAT:1713 C#:
133 SHIP TT CRUIS 220 STAT:1714 C#:
134 SHIP TT CRUIS 220 STAT:1715 C#:
135 SHIP TT CRUIS 220 STAT:1716 C#:
136 SHIP TT CRUIS 220 STAT:1717 C#:
137 SHIP TT CRUIS 220 STAT:1718 C#:
138 SHIP TT CRUIS 220 STAT:1796 C#:
139 SHIP TT CRUIS 220 STAT:1719 C#:
140 SHIP TT CRUIS 220 STAT:1700 C#:
141 SHIP TT CRUIS 220 STAT:1709 C#:
142 SHIP TT CRUIS 220 STAT:1795 C#:
SHIP TT CRUIS 220 STAT:1720 C#:
SHIP TT CRUIS 220 STAT:1819 C#:
SHIP TT CRUIS 220 STAT:1891 C#:
146 SHIP TT CRUIS 220 STAT:1805 C#:
147 SHIP TT CRUIS 220 STAT:1806 C#:
148 SHIP TT CRUIS 220 STAT:1807 C#:
SHIP TT CRUIS 220 STAT:1892 C#:
SHIP TT CRUIS 220 STAT:1808 C#:
151 SHIP TT CRUIS 220 STAT:1893 C#:
152 SHIP TT CRUIS 220 STAT:1809 C#:
153 SHIP TT CRUIS 220 STAT:1800 C#:
154 SHIP TT CRUIS 220 STAT:1810 C#:
155 SHIP TT CRUIS 220 STAT:1895 C#:
156 SHIP TT CRUIS 220 STAT:1896 C#:
157 SHIP TT CRUIS 220 STAT:1820 C#:
158 SHIP TT CRUIS 220 STAT:1801 C#:
159 SHIP TT CRUIS 220 STAT:1812 C#:
160 SHIP TT CRUIS 220 STAT:1813 C#:
161 SHIP TT CRUIS 220 STAT:1890 C#:
162 SHIP TT CRUIS 220 STAT:1814 C#:
163 SHIP TT CRUIS 220 STAT:1815 C#:
164 SHIP TT CRUIS 220 STAT:1816 C#:
165 SHIP TT CRUIS 220 STAT:1817 C#:
166 SHIP TT CRUIS 220 STAT:1818 C#:
167 SHIP TT CRUIS 220 STAT:1894 C#:
168 SHIP TT CRUIS 220 STAT:1803 C#:
SHIP TT CRUIS 220 STAT:1802 C#:
SHIP TT CRUIS 220 STAT:1899 C#:
SHIP TT CRUIS 220 STAT:1804 C#:
172 SHIP TT CRUIS 220 STAT:1811 C#:
173 SHIP TT CRUIS 220 STAT:1897 C#:
174 SHIP TT CRUIS 220 STAT:1898 C#:
SHIP TT CRUIS 220 STAT:1901 C#:
SHIP TT CRUIS 220 STAT:1902 C#:
177 SHIP TT CRUIS 220 STAT:1903 C#:

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[redacted] SHIP TT CRUIS 220 STAT:1906 C#:
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186 SHIP TT CRUIS 220 STAT:1991 C#:
187 SHIP TT CRUIS 220 STAT:1914 C#:
188 SHIP TT CRUIS 220 STAT:1915 C#:
189 SHIP TT CRUIS 220 STAT:1916 C#:
190 SHIP TT CRUIS 220 STAT:1992 C#:
191 SHIP TT CRUIS 220 STAT:1917 C#:
192 SHIP TT CRUIS 220 STAT:1918 C#:
193 SHIP TT CRUIS 220 STAT:1900 C#:
194 SHIP TT CRUIS 220 STAT:1904 C#:
195 SHIP TT CRUIS 220 STAT:1907 C#:
196 SHIP TT CRUIS 220 STAT:1908 C#:
197 SHIP TT CRUIS 223 STAT:2000 C#:
198 SHIP TT CRUIS 223 STAT:2001 C#:
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[redacted] SHIP TT CRUIS 223 STAT:2012 C#:
211 SHIP TT CRUIS 223 STAT:2013 C#:
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213 SHIP TT CRUIS 223 STAT:2047 C#:
214 SHIP TT CRUIS 223 STAT:2015 C#:
215 SHIP TT CRUIS 223 STAT:2016 C#:
216 SHIP TT CRUIS 223 STAT:2017 C#:
217 SHIP TT CRUIS 223 STAT:2018 C#:
218 SHIP TT CRUIS 223 STAT:2019 C#:
219 SHIP TT CRUIS 223 STAT:2020 C#:
220 SHIP TT CRUIS 223 STAT:2009 C#:
221 SHIP TT CRUIS 223 STAT:2045 C#:
222 SHIP TT CRUIS 223 STAT:2102 C#:
223 SHIP TT CRUIS 223 STAT:2144 C#:
224 SHIP TT CRUIS 223 STAT:2104 C#:
225 SHIP TT CRUIS 223 STAT:2145 C#:
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[redacted] SHIP TT CRUIS 223 STAT:2110 C#:
[redacted] SHIP TT CRUIS 223 STAT:2111 C#:
232 SHIP TT CRUIS 223 STAT:2113 C#:
233 SHIP TT CRUIS 223 STAT:2114 C#:
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241 SHIP TT CRUIS 223 STAT:2100 C#:
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[redacted] SHIP TT CRUIS 223 STAT:2103 C#:
[redacted] SHIP TT CRUIS 223 STAT:2105 C#:
245 SHIP TT CRUIS 223 STAT:2106 C#:
246 SHIP TT CRUIS 223 STAT:2112 C#:
247 SHIP TT CRUIS 223 STAT:2244 C#:
248 SHIP TT CRUIS 223 STAT:2201 C#:
249 SHIP TT CRUIS 223 STAT:2202 C#:
250 SHIP TT CRUIS 223 STAT:2203 C#:
251 SHIP TT CRUIS 223 STAT:2245 C#:
252 SHIP TT CRUIS 223 STAT:2204 C#:
253 SHIP TT CRUIS 223 STAT:2205 C#:
254 SHIP TT CRUIS 223 STAT:2206 C#:
255 SHIP TT CRUIS 223 STAT:2207 C#:
256 SHIP TT CRUIS 223 STAT:2208 C#:
257 SHIP TT CRUIS 223 STAT:2210 C#:
258 SHIP TT CRUIS 223 STAT:2246 C#:
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260 SHIP TT CRUIS 223 STAT:2213 C#:
261 SHIP TT CRUIS 223 STAT:2290 C#:
262 SHIP TT CRUIS 223 STAT:2291 C#:
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[redacted] SHIP TT CRUIS 223 STAT:2293 C#:
[redacted] SHIP TT CRUIS 223 STAT:2200 C#:
266 SHIP TT CRUIS 223 STAT:2209 C#:
267 SHIP TT CRUIS 223 STAT:2211 C#:
268 SHIP TT CRUIS 223 STAT:2301 C#:
[redacted] SHIP TT CRUIS 223 STAT:2302 C#:
[redacted] SHIP TT CRUIS 223 STAT:2303 C#:
271 SHIP TT CRUIS 223 STAT:2304 C#:
272 SHIP TT CRUIS 223 STAT:2305 C#:
273 SHIP TT CRUIS 223 STAT:2306 C#:
274 SHIP TT CRUIS 223 STAT:2307 C#:
275 SHIP TT CRUIS 223 STAT:2347 C#:
276 SHIP TT CRUIS 223 STAT:2348 C#:
277 SHIP TT CRUIS 223 STAT:2308 C#:
278 SHIP TT CRUIS 223 STAT:2309 C#:
279 SHIP TT CRUIS 223 STAT:2310 C#:
280 SHIP TT CRUIS 223 STAT:2312 C#:
281 SHIP TT CRUIS 223 STAT:2313 C#:
282 SHIP TT CRUIS 223 STAT:2314 C#:
283 SHIP TT CRUIS 223 STAT:2315 C#:
284 SHIP TT CRUIS 223 STAT:2316 C#:
285 SHIP TT CRUIS 223 STAT:2317 C#:
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287 SHIP TT CRUIS 223 STAT:2300 C#:
288 SHIP TT CRUIS 223 STAT:2345 C#:
[redacted] SHIP TT CRUIS 223 STAT:2344 C#:
[redacted] SHIP TT CRUIS 223 STAT:2346 C#:
[redacted] SHIP TT CRUIS 223 STAT:2311 C#:
292 SHIP TT CRUIS 223 STAT:2349 C#:

ACCESSION NUMBER

8900170

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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

Oregon State University
College of Oceanography
Corvallis, OR 97331

RECEIVED
JUN 08 1989
145

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

SUPER (Subarctic Pacific Ecosystem Research)

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

none

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
R/V Wecoma	Ship	U.S.	U.S.	4/30/84 8/2/84	5/21/84 8/23/84

8. ARE DATA PROPRIETARY?

☒ 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?)

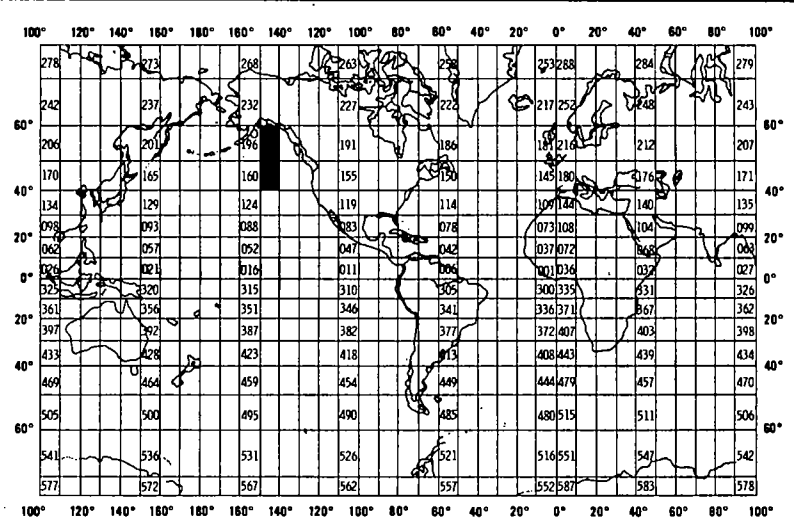
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Charles B. Miller
(503) 754-4524

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

GENERAL AREA



NOAA FORM 24-13

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

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	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	ϕ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING TWO PAGES FOR THIS INFORMATION)

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
Pressure Temperature Salinity	db. °C	Neil Brown Mark III-B CTD	See data report	Values averaged over 2 db. intervals

NOAA FORM 24-13

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

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).

2. Describe briefly how your file is organized.

3-13. Self-explanatory.

14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.

15. Enter starting position of the field.

16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.

17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").

18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

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

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self-documenting in that each field has a readable label. See sample file dump in Record Format Description section.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Each data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contain the basic sampling information for that station. The remaining records are data records. Each record is 35 characters long.
As the last physical block of each file may contain fewer than 100 records, the block is padded out to 3500 characters using the ASCII "Null" character (decimal 0).

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Anne Raich (503) 754-4524
ADDRESS Oregon State University, College of Oceanography
Corvallis, OR 97331

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 ☒ NRZ1

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)*
NODC 2 26 REPORT FILES 5/12/89
SUPER 1 2
9 TRACK 1600 BPI ASCII ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
3500 (35 char/rec, 100 rec/block)

13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME _____

FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 1st Header Record (all fields right justified)					
Field Label	1	6		6H	Always "ϕSHIPϕ" (ϕ=blank)
Ship Code	7	2		A2	WC = R/V Wecoma
Field Label	9	7		7H	Always "ϕCRUISϕ"
Cruise Number	16	3		I3	Cruise No. - always blank
Field Label	19	6		6H	Always "ϕSTAT:"
Station Number	25	4		I4	Station No.
Field Label	29	4		4H	Always "ϕC#:"
Cast Number	33	3		I3	Cast Number - always blank
	total =	35			
Description of 2nd Header Record (all fields right justified)					
Field Label	1	6		6H	Always "ϕDATEϕ" (ϕ=blank)
Date: year	7	2		I2	Last 2 digits of year
Field Separator	9	1		1H	Always "-"
Month	10	2		I2	Month (1-12)
Field Separator	12	1		1H	Always "-"
Day	13	2		I2	Day (1-31)
Field Label	15	8		8H	Always "ϕϕTIME:ϕ"
Time	23	4		I4	Time (GMT) - 24 hour clock
Time Label	27	2		2H	Always "ϕZ" - Symbol for GMT or Zulu Time
Blank	29	7			
	total =	35			
Description of 3rd Header Record				Call fields	right justified)
Field Label	1	5		5H	always "ϕLATϕ" (ϕ=blank)
Latitude	6	9		A9	Latitude in degrees and minutes to hundreths of a minute
Field Label	15	4		4H	Always "ϕLGϕ"
Longitude	19	10		A10	Longitude in degrees and minutes to hundreths of a minute (negative for west latitudes)
Blank	29	7		7H	
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of 4th Header Record				(all fields right justified)	
Field Label	1	10		10H	Always "bMAX. bPRS=" (b=blank)
Maximum Pressure	11	6		F6.0	Maximum pressure reached by the CTD cast, pressure in decibars
Field Label	17	12		12H	Always "bDB bb DEPTH=b"
Depth of Cast	29	5		F5.0	Water depth in meters
Field Label	34	2		2H	Always "bM"
	total =	35			
Description of 5th Header Record				(all fields	right justified)
Field Label	1	8		8H	Always "bAVER bbb"
Averaging Interval	9	3		F3.0	All data reduced to a common reporting interval, in decibars; always 2.0
Field Label	12	6		6H	Always "bINSTb"
Instrument No.	18	4		I4	CTD Instrument No.
Field Label	22	7		7H	always "bRATE bb"
Sampling Rate	29	5		F5.0	Sampling rate in Hertz (samples/second)
Field Label	34	2		2H	Always "HZ"
	total =	35			
Description of 6th Header Record				(all fields	right justified)
Field Label	1	5		5H	Always "bOBS="
Total Data Cycles	6	6		I6	Total number of data cycles this station
Field Label	12	4		4H	Always "bFMT"
FORTRAN Format	16	20		20H	Always "(F7.1, 2F8.4, F6.2, I6)"
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Description of ~~1st~~ Header Record					
If tape is dumped, this record provides column headings on the listing. It contains no station information. (See the sample listing on the next page.)					
Description of Data Records					
Pressure	1	7		F7.1	Pressure in decibars
Temperature	8	8		F8.4	Temperature in degrees C.
Salinity	16	8		F8.4	Salinity in parts/thousand
Oxygen	24	6		F6.2	Oxygen in ml/l
Quality Word	30	6		I6	Not used- always "1"
	total =	35			

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING

SHIP WC CRUIS STAT: 313 C#:
DATE 84- 5-19 TIME: 1200 Z
LAT 50 4.10 LG -145 2.30
MAX. PRS= 305. DB DEPTH= 4240. M
AVER 2.0 INST 2561 RATE 31.25HZ
OBS= 153 FMT(F7.1,2F8.4,F6.2,I6)

PRES	TEMP	SALT	OXYG	QUAL
1.0	7.0224	32.5602	-9.99	1
3.0	7.0222	32.5605	-9.99	1
5.0	7.0221	32.5603	-9.99	1
7.0	7.0224	32.5604	-9.99	1
9.0	7.0179	32.5599	-9.99	1
11.0	7.0181	32.5596	-9.99	1
13.0	7.0183	32.5599	-9.99	1
15.0	7.0182	32.5602	-9.99	1
17.0	7.0185	32.5600	-9.99	1
19.0	7.0187	32.5602	-9.99	1
21.0	7.0191	32.5600	-9.99	1
23.0	7.0190	32.5596	-9.99	1
25.0	7.0183	32.5598	-9.99	1
27.0	7.0178	32.5601	-9.99	1
29.0	7.0091	32.5607	-9.99	1
31.0	7.0137	32.5603	-9.99	1
33.0	7.0132	32.5603	-9.99	1
35.0	7.0065	32.5608	-9.99	1
37.0	7.0024	32.5608	-9.99	1
39.0	7.0002	32.5610	-9.99	1
41.0	6.9971	32.5613	-9.99	1
43.0	6.9973	32.5608	-9.99	1
45.0	6.9973	32.5608	-9.99	1
47.0	6.9942	32.5614	-9.99	1
49.0	6.9887	32.5617	-9.99	1
51.0	6.9637	32.5627	-9.99	1
53.0	6.9223	32.5643	-9.99	1
55.0	6.8775	32.5647	-9.99	1
57.0	6.8263	32.5673	-9.99	1
59.0	6.7361	32.5747	-9.99	1
61.0	6.6686	32.5767	-9.99	1
63.0	6.6291	32.5758	-9.99	1
65.0	6.6226	32.5760	-9.99	1
67.0	6.6164	32.5763	-9.99	1
69.0	6.6112	32.5772	-9.99	1

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 (√)	(√)
Neil Brown Mark III-B CTD# 2961	Nov. '82		Neil Brown Instruments	✓					

NOAA FORM 24-13

8900170

Directory of NODC Tape
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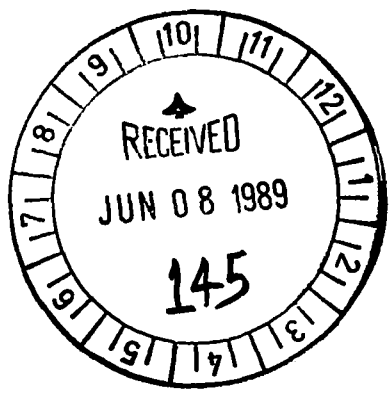

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