

8900277

02/15/90

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: 8900277 Ref: 319876 - 319879 sta. rec.

Low Resolution STD (C022)

Acc: 8900277 Ref: 329614 - 329614 sta. rec.

C/STD (F022) ✓

Acc: 8900277 Ref: TV4629 - TV4633 365 sta. 10,867 rec. ✓

NOAA-PMEL

(Puget Sound Long Range Eff.)

Current Meters (F015)

Acc: 8900277 Ref: TV4793 - TV4849 57 sta. 249,141 rec.

NOAA-PMEL

(Puget Sound Long Range Eff.)

DIV DIR

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900277	TV4629	F022	0173	313F	31M4	PS84	08/06/84	08/15/84	28	750
8900277	TV4630	F022	0173	313F	31M4	PS85	03/26/85	04/16/85	167	5,003
8900277	TV4631	F022	0173	313F	31M4	PS85	06/27/85	07/02/85	53	1,084
8900277	TV4632	F022	0173	313F	31FN	PS86	08/18/86	09/06/87	104	3,519
8900277	TV4633	F022	0173	313F	32D2	PS87	09/01/87	09/10/87	13	511

ACCESSION NO. 8900277FILETYPE F022

TRACK NO. _____

PROJECT
IDENTIFICATION PSTV 4629-TV4633LONG RANGE
EFFECTS

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11-27-89	C.M.H.	A01007	4	120	3600	17,250
DUPLICATE TAPE	12-12-89	C.M.H.	W10229 *	4	↓	↓	↓
REFORMATTED TAPE	1-3-90	B.R.S.	W16136 **	1	120	12000	10,867
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* LABEL DNODC * 8900227-01.

** LABEL = DNODC * PGCTDOUT.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

259/11-13-89

8900277

A01007

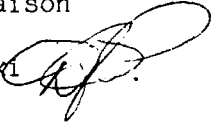
A01008



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL RESEARCH LABORATORIES
Pacific Marine Environmental Laboratory
NOAA Building Number 3
7600 Sand Point Way N.E.
Seattle, WA 98115

November 2, 1989

R/E/PM

MEMORANDUM FOR: Sid Stillwaugh
NEDIS-NODC Liaison
NEDIS -
FROM: David Pashinski 
PMEL/MARD
SUBJECT: Data Transmittal to NODC

Included with this letter of data transmittal are two (2) data tapes and DDFs which represent the unsubmitted data from the Puget Sound Long Range Effects Program covering the period from 1984 to 1987. With this submission of data (CTD and Current Meter) all viable physical oceanographic data collected by the Marine Environmental Assessment Division of PMEL associated with this program will have been transmitted to NODC.

This submission includes:

Tape 1. NODC.PSCTD Four files CTD data (378 casts) most with light attenuation data.

Tape 2. NODC.PSCMS Twenty-one files Current Meter data (21 moorings 56 instruments) many with light attenuation data.

Attachments



TRANSMITTAL AND RECEIPT RECORD
(Please sign and return carbon copy acknowledging receipt)

TO: NOAA/NESDIS/NODC 1825 Connecticut Ave NW Washington DC 20235	REFER TO
	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 two (2) magnetic data tapes containing Puget Sound Long Range Effects Studies CTD and current meter datasets. These data were contributed by Mr. David Pashinski, PMEL.

Tape 1 - NODC.PSCTD, 4 files 378 casts, from 8/84 to 8/87.

Tape 2 - NODC.PSCMS, 21 files (56 instruments) 4/85 to 10/86.

CC: Mr. David Pashinski, NOAA/PMEL



FORWARDED BY (Signature) <i>Sid Stillwaugh</i> Sid Stillwaugh	TITLE NODC Liaison Officer, Seattle	DATE FORWARDED 11/7/89
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

TRANSMITTAL AND RECEIPT RECORD
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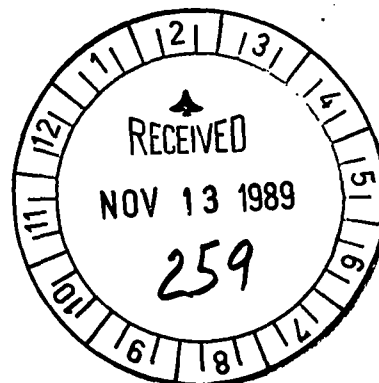
☒ ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

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CC: Mr. David Pashinski, NOAA/PMEL



FORWARDED BY (Signature) Sid Stillwaugh	TITLE NODC Liaison Officer, Seattle	DATE FORWARDED 11/7/89
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

DATA DOCUMENTATION FORM

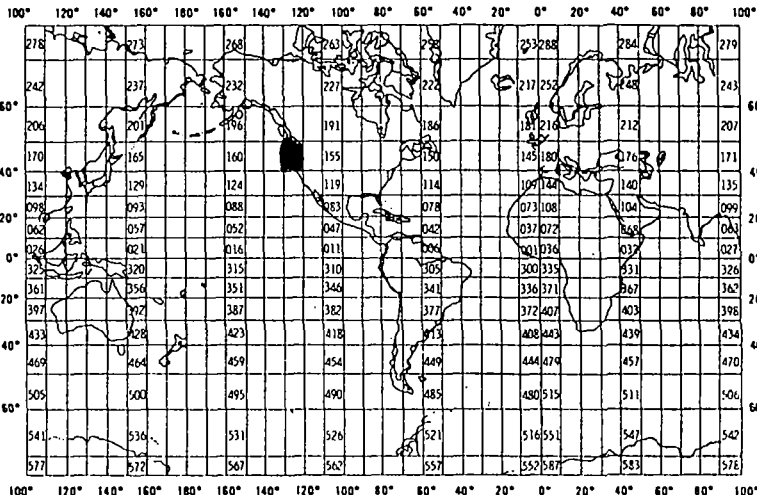
NOAA FORM 24-13
(2-85)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 0648-0024
EXPIRES 2/29/87

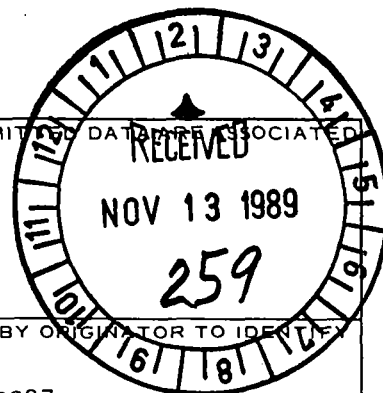
(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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 SUBMITTER IS ASSOCIATED NOAA PMEL MARD Bin 15700 Bldg 3. 7500 Sandpoint Way NE Seattle WA 98115		2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Puget Sound Long Range Effects		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT PS84, PS85, PS86, PS87	
4. PLATFORM NAME(S) S-330 R-223	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR US US	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 8/84 8/87		
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) D. Pashinski 206-526-6781					



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 salinity temperature attenuation	db ppt deg C na	plessey 9041 " " " w/seatech transm.		1 meter averaging " " "

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

File type 22 -- CTD

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Four (4) files

file 1.	1984	CTDs	28 casts
2.	1985		220
3.	1986		117
4.	1987		13

3. ATTRIBUTES AS EXPRESSED IN
- | | | |
|---|--------------------------------|--------------------------------|
| <input type="checkbox"/> PL-1 | <input type="checkbox"/> ALGOL | <input type="checkbox"/> COBOL |
| <input checked="" type="checkbox"/> FORTRAN | <input type="checkbox"/> _____ | LANGUAGE |

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D. Pashinski 206 526 6781

ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table border="0"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input checked="" type="checkbox"/> ASCII</td> <td><input type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>		
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY								
<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC								
<input type="checkbox"/> _____									
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table border="0"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<p>10. END OF FILE MARK</p> <table border="0"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> OCTAL 17	<input type="checkbox"/> _____			
<input type="checkbox"/> SEVEN									
<input checked="" type="checkbox"/> NINE									
<input type="checkbox"/> _____									
<input type="checkbox"/> OCTAL 17									
<input type="checkbox"/> _____									
<p>7. PARITY</p> <table border="0"> <tr> <td><input type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table>	<input type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NODC.PSCTD 6250 bpi, 9trk. ascii 3600 characters/block 30 (120 character records/block)</p>						
<input type="checkbox"/> ODD									
<input type="checkbox"/> EVEN									
<p>8. DENSITY</p> <table border="0"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 6250</td> <td></td> </tr> </table>	<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input type="checkbox"/> 800 BPI		<input checked="" type="checkbox"/> 6250		<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><u>3600 (120/rec)</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><u>8</u></p>
<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI								
<input type="checkbox"/> 556 BPI									
<input type="checkbox"/> 800 BPI									
<input checked="" type="checkbox"/> 6250									

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File structure -

Eight 120-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, (4) Detail Record 2, (5) Detail Record 3, (6) Detail Record 4, (7) Detail Record 5, and (8) Detail Record 6.

File format -

CTD/STD Recorder Data (F022)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
CAST NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2,3 AND 4	11
TEXT	100-CHARACTER FIELD - USED FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXXXX - USED FOR SORTING TEXT RECORDS	116
MASTER RECORD	ALWAYS '2'	10
CAST NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
CRUISE IDENTIFICATION	TEN-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR	31
NUMBER OF SCANS	XXXXX - USED TO INDICATE NUMBER OF SCANS PER STATION (FIVE/RECORD)	41
DATE (GMT)	YYMMDD	46
TIME (GMT)	XXXX (HOURS AND MINUTES)	52
SAMPLE INTERVAL INDICATOR	ONE-DIGIT CODE - USE CODE 0216	56
SAMPLE INTERVAL	XXX - WHEN INDICATOR CODE=1 (EQUAL SPACED DEPTHS) - (METERS TO TENTHS)	57
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	60
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	65
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	69
WIND DIRECTION	XX - TWO-DIGIT CODE - WMO 885/887 DIRECTION FROM - USE CODE 0110	73
WIND SPEED	XX (WHOLE KNOTS)	75
WEATHER	ONE-DIGIT CODE - WMO 4501 - USE CODE 0108	77
SEA STATE	ONE-DIGIT CODE - WMO 3700 - USE CODE 0109	78
VISIBILITY	ONE-DIGIT CODE - WMO 4300 - USE CODE 0157	79
CLOUD TYPE	ONE-DIGIT CODE - WMO 0500 - USE CODE 0053	80
CLOUD AMOUNT	ONE-DIGIT CODE - WMO 2700 - USE CODE 0105	81
INSTRUMENT INFORMATION	TWENTY-CHARACTER FIELD FOR TYPE OF INSTRUMENT, SERIAL NUMBER, ETC	82
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY THE ORIGINATOR	102

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DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST	XXXX (WHOLE METERS)	113
BLANKS		117
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	106
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 2	ALWAYS '4'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	21
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	41
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	61
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	96
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	101
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 3	ALWAYS '5'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
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SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91

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SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
DEPTH	SCANNING DATA - USE CODE 0080	
TEMPERATURE	XXXXX (METERS TO TENTHS)	96
	XXXXX NEGATIVE TEMPERATURES ARE	101
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 4	ALWAYS '6'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
SALINITY	XXXXX - PARTS PER THOUSAND TO	26
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
SALINITY	XXXXX - PARTS PER THOUSAND TO	46
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
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SALINITY	XXXXX - PARTS PER THOUSAND TO	106
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 5	ALWAYS '7'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

DATE March 1984	NODC Users Guide	SECTION 4.1.10	PAGE 8
--------------------	------------------	-------------------	-----------

DETAIL RECORD G	ALWAYS '8'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PPT TO THOUSANDTHS	26
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	31
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	35
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PPT TO THOUSANDTHS	46
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	51
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	55
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PPT TO THOUSANDTHS	66
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	71
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	75
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PPT TO THOUSANDTHS	86
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	91
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	95
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PPT TO THOUSANDTHS	106
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	111
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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 9041	annual		NRCC	X					
Seatech transm.	?	X			X				

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
-----	-----	-----	-----	-----	-----	-----	-----	-----
8900277	F015	TV4793	0173	313F	317F	1985/03/27	8502/98	189332
8900277	F015	TV4794	0173	313F	317F	1985/03/27	8502/101	189333
8900277	F015	TV4795	0173	313F	317F	1985/03/25	8504/4	189334
8900277	F015	TV4796	0173	313F	317F	1985/03/26	8505/152	189335
8900277	F015	TV4797	0173	313F	317F	1985/04/16	8506/10	189336
8900277	F015	TV4799	0173	313F	317F	1985/04/16	8507/10	189338
8900277	F015	TV4800	0173	313F	317F	1985/04/16	8507/30	189339
8900277	F015	TV4801	0173	313F	317F	1985/03/28	8509/24	189340
8900277	F015	TV4802	0173	313F	317F	1985/03/28	8509/44	189341
8900277	F015	TV4803	0173	313F	317F	1985/03/28	8509/74	189342
8900277	F015	TV4804	0173	313F	317F	1985/03/28	8509/109	189343
8900277	F015	TV4805	0173	313F	317F	1985/03/28	8509/194	189344
8900277	F015	TV4806	0173	313F	317F	1985/03/28	8509/179	189345
8900277	F015	TV4807	0173	313F	317F	1985/03/28	8508/108	189346
8900277	F015	TV4808	0173	313F	317F	1985/03/28	8508/153	189347
8900277	F015	TV4809	0173	313F	317F	1985/03/28	8508/186	189348
8900277	F015	TV4810	0173	313F	317F	1985/03/28	8510/19	189349
8900277	F015	TV4811	0173	313F	317F	1985/03/28	8510/39	189350
8900277	F015	TV4812	0173	313F	317F	1985/03/28	8510/69	189351
8900277	F015	TV4813	0173	313F	317F	1985/03/28	8510/104	189352
8900277	F015	TV4814	0173	313F	317F	1985/03/28	8510/149	189353
8900277	F015	TV4815	0173	313F	317F	1985/03/28	8510/174	189354
8900277	F015	TV4816	0173	313F	317F	1985/03/28	8511/20	189355
8900277	F015	TV4817	0173	313F	317F	1985/03/28	8511/40	189356
8900277	F015	TV4818	0173	313F	317F	1985/03/28	8511/70	189357
8900277	F015	TV4819	0173	313F	317F	1985/03/28	8511/154	189358
8900277	F015	TV4820	0173	313F	317F	1986/05/07	8602/176	189359
8900277	F015	TV4821	0173	313F	317F	1986/05/07	8602/178	189360
8900277	F015	TV4822	0173	313F	317F	1986/08/06	8603/28	189361
8900277	F015	TV4823	0173	313F	317F	1986/08/06	8604/19	189362
8900277	F015	TV4824	0173	313F	317F	1986/08/06	8604/39	189363
8900277	F015	TV4825	0173	313F	317F	1986/08/06	8604/59	189364
8900277	F015	TV4826	0173	313F	317F	1986/08/06	8604/79	189365
8900277	F015	TV4827	0173	313F	317F	1986/08/06	8605/38	189366
8900277	F015	TV4828	0173	313F	317F	1986/08/05	8605/58	189367
8900277	F015	TV4829	0173	313F	317F	1986/08/05	8605/78	189368
8900277	F015	TV4830	0173	313F	317F	1986/08/06	8606/5	189369
8900277	F015	TV4831	0173	313F	317F	1986/08/05	8607/5	189370
8900277	F015	TV4832	0173	313F	317F	1986/08/06	8608/61	189371
8900277	F015	TV4833	0173	313F	317F	1986/08/06	8609/24	189372
8900277	F015	TV4834	0173	313F	317F	1986/08/06	8609/44	189373
8900277	F015	TV4835	0173	313F	317F	1986/08/06	8609/64	189374
8900277	F015	TV4836	0173	313F	317F	1986/08/05	8610/40	189375
8900277	F015	TV4837	0173	313F	317F	1986/08/05	8610/70	189376
8900277	F015	TV4838	0173	313F	317F	1986/08/05	8610/100	189377
8900277	F015	TV4839	0173	313F	317F	1986/08/05	8611/21	189378
8900277	F015	TV4840	0173	313F	317F	1986/08/05	8611/51	189379
8900277	F015	TV4841	0173	313F	317F	1986/08/05	8611/81	189380
8900277	F015	TV4842	0173	313F	317F	1986/08/04	8612/102	189381
8900277	F015	TV4843	0173	313F	317F	1986/08/04	8612/182	189382
8900277	F015	TV4844	0173	313F	317F	1986/08/05	8612/193	189383
8900277	F015	TV4845	0173	313F	317F	1986/08/05	8612/195	189384
8900277	F015	TV4846	0173	313F	317F	1986/08/04	8613/110	189385
8900277	F015	TV4847	0173	313F	317F	1986/08/04	8613/190	189386
8900277	F015	TV4848	0173	313F	317F	1986/08/04	8613/201	189387
8900277	F015	TV4849	0173	313F	317F	1986/08/04	8613/204	189388

8900277	F015	TV4798	0173	313F	31FF	1985/04/16	8506/4	189337
8900277	C022	329614	0173	313F	32D2	1987/09/01	TV4633	189330
8900277	F022	TV4633	0173	313F	32D2	1987/09/01	PS87	189331

(59 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
8900277	F015	TV4793	317F	5	4996	85/03/27	85/07/01
8900277	F015	TV4794	317F	5	5016	85/03/27	85/07/01
8900277	F015	TV4795	317F	2	2036	85/03/25	85/04/01
8900277	F015	TV4796	317F	2	2036	85/03/26	85/04/01
8900277	F015	TV4797	317F	4	11961	85/04/16	85/07/01
8900277	F015	TV4799	317F	4	5961	85/04/16	85/07/01
8900277	F015	TV4800	317F	4	5981	85/04/16	85/07/01
8900277	F015	TV4801	317F	5	4926	85/03/28	85/07/01
8900277	F015	TV4802	317F	5	4926	85/03/28	85/07/01
8900277	F015	TV4803	317F	5	4926	85/03/28	85/07/01
8900277	F015	TV4804	317F	5	4926	85/03/28	85/07/01
8900277	F015	TV4805	317F	5	4925	85/03/28	85/07/01
8900277	F015	TV4806	317F	5	4957	85/03/28	85/07/01
8900277	F015	TV4807	317F	5	4922	85/03/28	85/07/01
8900277	F015	TV4808	317F	5	4922	85/03/28	85/07/01
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8900277	F015	TV4811	317F	5	4935	85/03/28	85/07/01
8900277	F015	TV4812	317F	5	4936	85/03/28	85/07/01
8900277	F015	TV4813	317F	5	4936	85/03/28	85/07/01
8900277	F015	TV4814	317F	5	4937	85/03/28	85/07/01
8900277	F015	TV4815	317F	5	4967	85/03/28	85/07/01
8900277	F015	TV4816	317F	5	4937	85/03/28	85/07/01
8900277	F015	TV4817	317F	5	4935	85/03/28	85/07/01
8900277	F015	TV4818	317F	5	4936	85/03/28	85/07/01
8900277	F015	TV4819	317F	5	4936	85/03/28	85/07/01
8900277	F015	TV4820	317F	4	4281	86/05/07	86/08/01
8900277	F015	TV4821	317F	4	4296	86/05/07	86/08/01
8900277	F015	TV4822	317F	7	9121	86/08/06	87/02/01
8900277	F015	TV4823	317F	2	2132	86/08/06	86/09/01
8900277	F015	TV4824	317F	2	2132	86/08/06	86/09/01
8900277	F015	TV4825	317F	2	2132	86/08/06	86/09/01
8900277	F015	TV4826	317F	2	2188	86/08/06	86/09/01
8900277	F015	TV4827	317F	1	602	86/08/06	86/08/06
8900277	F015	TV4828	317F	7	9119	86/08/05	87/02/01
8900277	F015	TV4829	317F	7	9122	86/08/05	87/02/01
8900277	F015	TV4830	317F	4	5401	86/08/06	86/11/01
8900277	F015	TV4831	317F	4	5461	86/08/05	86/11/01
8900277	F015	TV4832	317F	4	8581	86/08/06	86/11/01
8900277	F015	TV4833	317F	2	3037	86/08/06	86/09/01
8900277	F015	TV4834	317F	2	3037	86/08/06	86/09/01
8900277	F015	TV4835	317F	2	3049	86/08/06	86/09/01
8900277	F015	TV4836	317F	2	3078	86/08/05	86/09/01
8900277	F015	TV4837	317F	2	3077	86/08/05	86/09/01
8900277	F015	TV4838	317F	2	3088	86/08/05	86/09/01
8900277	F015	TV4839	317F	2	3069	86/08/05	86/09/01
8900277	F015	TV4840	317F	2	3067	86/08/05	86/09/01
8900277	F015	TV4841	317F	2	3107	86/08/05	86/09/01
8900277	F015	TV4842	317F	2	2160	86/08/04	86/09/01
8900277	F015	TV4843	317F	1	503	86/08/04	86/08/04
8900277	F015	TV4844	317F	2	2159	86/08/05	86/09/01
8900277	F015	TV4845	317F	2	2187	86/08/05	86/09/01
8900277	F015	TV4846	317F	2	1525	86/08/04	86/09/01
8900277	F015	TV4847	317F	2	1527	86/08/04	86/09/01
8900277	F015	TV4848	317F	2	1527	86/08/04	86/09/01
8900277	F015	TV4849	317F	2	1530	86/08/04	86/09/01

8900277	F015	TV4798	31FF	4	11981	85/04/16	85/07/01
8900277	C022	329614	32D2	13	13	87/09/01	87/09/10
8900277	F022	TV4633	32D2	13	511	87/09/01	87/09/10

(59 rows affected)

TRANSMITTAL AND RECEIPT RECORD
(Please sign and return carbon copy acknowledging receipt)TO: NOAA/NESDIS/NODC
1825 Connecticut Ave NW
Washington DC 20235

REFER TO

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 two (2) magnetic data tapes containing Puget Sound Long Range Effects Studies CTD and current meter datasets. These data were contributed by Mr. David Pashinski, PMEL.

Tape 1 - NODC.PSCTD, 4 files 378 casts, from 8/84 to 8/87.

Tape 2 - NODC.PSCMS, 21 files (56 instruments) 4/85 to 10/86.

CC: Mr. David Pashinski, NOAA/PMEL

FORWARDED BY (Signature)

Sid Stillwaugh

TITLE

NODC Liaison Officer, Seattle

DATE FORWARDED

11/7/89

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

11/13/89

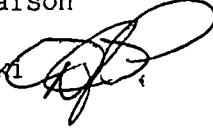


U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL RESEARCH LABORATORIES
Pacific Marine Environmental Laboratory
NOAA Building Number 3
7600 Sand Point Way N.E.
Seattle, WA 98115

November 2, 1989

R/E/PM

MEMORANDUM FOR: Sid Stillwaugh
NEDIS-NODC Liaison

FROM: David Pashinski 
PMEL/MARD

SUBJECT: Data Transmittal to NODC

Included with this letter of data transmittal are two (2) data tapes and DDFs which represent the unsubmitted data from the Puget Sound Long Range Effects Program covering the period from 1984 to 1987. With this submission of data (CTD and Current Meter) all viable physical oceanographic data collected by the Marine Environmental Assessment Division of PMEL associated with this program will have been transmitted to NODC.

This submission includes:

- Tape 1. NODC.PSCTD Four files CTD data (378 casts) most with light attenuation data.
- Tape 2. NODC.PSCMS Twenty-one files Current Meter data (21 moorings 56 instruments) many with light attenuation data.

Attachments



DATA DOCUMENTATION FORM

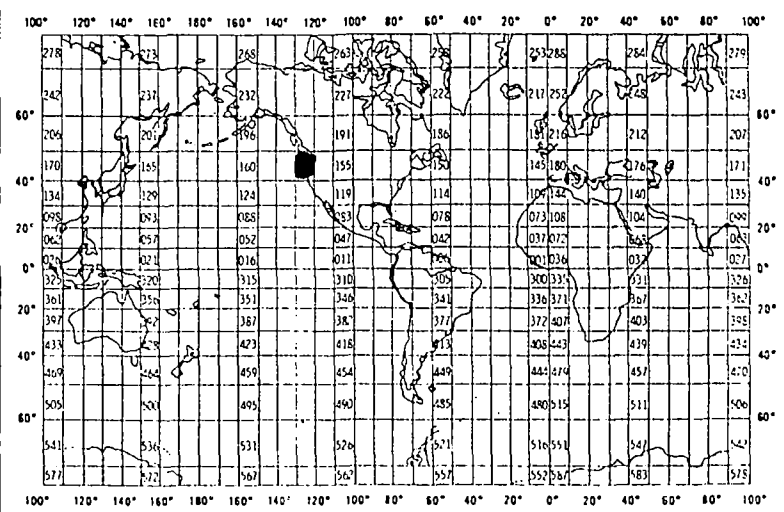
NOAA FORM 24-13
(2-85)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 0648-0024
EXPIRES 2/29/87

(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 NOAA PMEL MARD Bin 15700 Bldg. 3 7600 Sandpoint Way NE Seattle, WA 98115											
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Puget Sound Long Range Effects		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT PS8502,04,05,06,07,08,09,10,11 PS8602,03,04,05,06,07,08,09,10,11,12,13									
4. PLATFORM NAME(S) see (3)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Subsurface Moorings	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"><thead><tr><th>PLATFORM</th><th>OPERATOR</th></tr></thead><tbody><tr><td>US</td><td>US</td></tr></tbody></table>	PLATFORM	OPERATOR	US	US	7. DATES <table border="1"><thead><tr><th>FROM: MO/DAY/YR</th><th>TO: MO/DAY/YR</th></tr></thead><tbody><tr><td>4/85</td><td>10/86</td></tr></tbody></table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	4/85	10/86
PLATFORM	OPERATOR										
US	US										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
4/85	10/86										
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 									
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)											
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) D. Pashinski 206-526-6781											

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
U & V	cm/sec	Aanderaa RCM-4		interpolated to common time
temperature	deg C.	"		"
pressure	db.	"		"
salinity	ppt.	"		"
attenuation	na	" w/seatech beam transmissometer		"

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

File type 15 current meter

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

21 files

file 1. ps8502 2 cms

2 4 1
3 5 1
4 6 2
5 7 2
6 9 6
7 8 3
8 10 5

file 9. ps8511 4 cms

10. ps8602 2
11. 3 1
12. 4 4
13. 5 3
14. 6 1
15. 7 1

file 16. ps8608 1 cms

17. 9 3
18. 10 3
19. 11 3
20. 12 4
21. 13 4

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D Pashinski 206 526 6781

ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <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) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) NODC.PSCMS 6250 bpi 9trk ascii 3600 character blocks 60 (60 character) records/block</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input checked="" type="checkbox"/> 6250</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 3600 (60/rec)</p> <p>13. LENGTH OF BYTES IN BITS 8</p>

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File structure -

Four 60-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, and (4) Detail Record 2.

File format -

Current Meter Data (Components) (F015)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
METER NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2 AND 3	11
TEXT	THIRTY-EIGHT CHARACTER FIELD FOR COMMENTS OR PERTINENT INFORMATION	16
BLANK		54
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING TEXT INFORMATION	55
MASTER RECORD	ALWAYS '2'	10
METER NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
DEPTH OF BOTTOM	XXXXX (WHOLE METERS)	31
DEPTH OF CURRENT	XXXXX (METERS TO TENTHS)	36
METER		
METER USAGE SEQUENCE	XXX - USED FOR INDICATING NUMBER OF TIMES METER HAS BEEN USED	41
NUMBER		
INSTITUTION	TWO-CHARACTER NODC INSTITUTION CODE - USE CODE 0218	44
AXIS ROTATION	XXX - DEGREES CLOCKWISE FROM TRUE NORTH OF V AXIS - VALUES SHOULD BE 0 WHEN FINAL PROCESSED TO PROVIDE TRUE DIRECTION INFORMATION	46
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY ORIGINATOR	49
NUMBER OF DETAIL	XXXXXX - USED TO INDICATE NUMBER OF DETAIL RECORDS (3) TO FOLLOW THE MASTER RECORD (2)	55
RECORDS		
DETAIL RECORD 1	ALWAYS '3'	10
METER NUMBER	SEE RECORD '1'	11
DATE (GMT)	YYMMDD	16
TIME (GMT)	XXXXXX (HOURS, MINUTES TO HUNDREDTHS)	22
EAST-WEST CURRENT	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	28
COMPONENT (U)		

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NORTH-SOUTH CURRENT COMPONENT (V)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	34
TEMPERATURE	XXXXX WITH NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN (DEG C TO THOUSANDTHS)	40
PRESSURE	XXXXX (DECIBARS TO TENTHS)	45
CONDUCTIVITY	XXXX - MMHOS/CM TO HUNDREDTHS	50
BLANK		54
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING DATA RECORDS ORIGINATOR	55
DETAIL RECORD 2	ALWAYS '4'	10
METER NUMBER	SEE RECORD '1'	11
DATE (GMT)	YYMMDD	15
TIME (GMT)	XXXXXX (HOURS, MINUTES TO HUNDREDTHS)	22
EAST-WEST CURRENT COMPONENT (U)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	28
NORTH-SOUTH CURRENT COMPONENT (V)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN	34
TEMPERATURE	XXXXX WITH NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN (DEG C TO THOUSANDTHS)	40
PRESSURE	XXXXX (DECIBARS TO TENTHS)	45
SALINITY	XXXXX PARTS PER THOUSAND TO THOUSANDTHS	50
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING DATA RECORDS	55

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 (✓)	
Aanderaa RCM-4	annual		NRCC		x				
Seatech transm.	?	x			x				

DATA DOCUMENTATION FORM

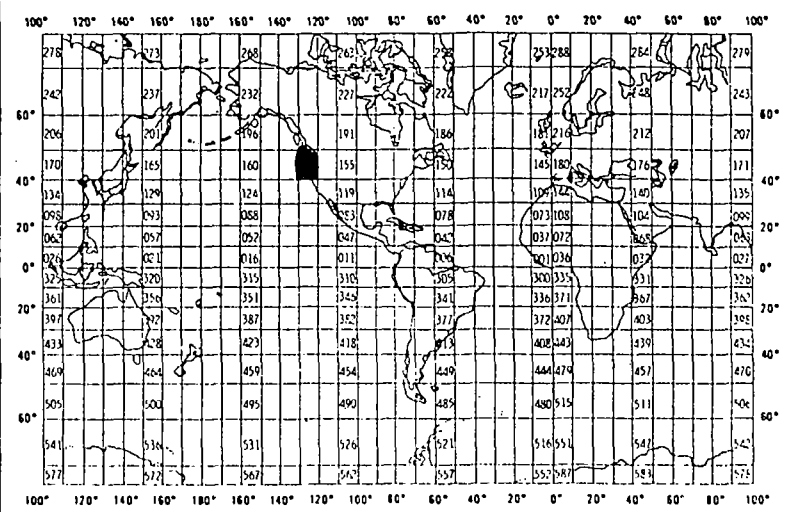
NOAA FORM 24-13
(2-85)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 0648-0024
EXPIRES 2/29/87

(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 NOAA PMEL MARD Bin 15700 Bldg 3. 7500 Sandpoint Way NE Seattle WA 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Puget Sound Long Range Effects		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT PS84, PS85, PS86, PS87	
4. PLATFORM NAME(S) (S-330) 31MY R-223 <i>McArthur</i> <i>Davisson</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR US US	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 8/84 8/87
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) D. Pashinski 206-526-6781			

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 salinity temperature attenuation	db ppt deg C na	plessey 9041 " " " w/seatech transm.		1 meter averaging " " "

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

File type 22 -- CTD

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Four (4) files

file 1.	1984	CTDs	28	casts
2.	1985		220	
3.	1986		117	
4.	1987		13	

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D. Pashinski 206 526 6781

ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" 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 type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) NODC.PSCTD 6250 bpi, 9trk. ascii 3600 characters/block 30 (120 character records/block)
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input checked="" type="checkbox"/> 6250	12. PHYSICAL BLOCK LENGTH IN BYTES <u>3600 (120/rec)</u> 13. LENGTH OF BYTES IN BITS <u>8</u>

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File structure -

Eight 120-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, (4) Detail Record 2, (5) Detail Record 3, (6) Detail Record 4, (7) Detail Record 5, and (8) Detail Record 6.

File format -

CTD/STD Recorder Data (F022)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
CAST NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2,3 AND 4	11
TEXT	100-CHARACTER FIELD - USED FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXXXX - USED FOR SORTING TEXT RECORDS	116
MASTER RECORD	ALWAYS '2'	10
CAST NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
CRUISE IDENTIFICATION	TEN-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR	31
NUMBER OF SCANS	XXXXX - USED TO INDICATE NUMBER OF SCANS PER STATION (FIVE/RECORD)	41
DATE (GMT)	YYMMDD	46
TIME (GMT)	XXXX (HOURS AND MINUTES)	52
SAMPLE INTERVAL INDICATOR	ONE-DIGIT CODE - USE CODE 0216	56
SAMPLE INTERVAL	XXX - WHEN INDICATOR CODE=1 (EQUAL SPACED DEPTHS) - (METERS TO TENTHS)	57
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	60
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	65
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	69
WIND DIRECTION	XX - TWO-DIGIT CODE - WMO 885/887 DIRECTION FROM - USE CODE 0110	73
WIND SPEED	XX (WHOLE KNOTS)	75
WEATHER	ONE-DIGIT CODE - WMO 4501 - USE CODE 0108	77
SEA STATE	ONE-DIGIT CODE - WMO 3700 - USE CODE 0109	78
VISIBILITY	ONE-DIGIT CODE - WMO 4300 - USE CODE 0157	79
CLOUD TYPE	ONE-DIGIT CODE - WMO 0500 - USE CODE 0053	80
CLOUD AMOUNT	ONE-DIGIT CODE - WMO 2700 - USE CODE 0105	81
INSTRUMENT INFORMATION	TWENTY-CHARACTER FIELD FOR TYPE OF INSTRUMENT, SERIAL NUMBER, ETC	82
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY THE ORIGINATOR	102

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DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST	XXXX (WHOLE METERS)	113
BLANKS		117
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	106
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 2	ALWAYS '4'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	21
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	41
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	61
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	96
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	101
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 3	ALWAYS '5'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91

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SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 4	ALWAYS '6'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	106
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 5	ALWAYS '7'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD G	ALWAYS '8'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PPT TO THOUSANDTHS	26
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	31
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	35
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PPT TO THOUSANDTHS	46
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	51
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	55
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PPT TO THOUSANDTHS	66
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	71
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	75
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PPT TO THOUSANDTHS	86
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	91
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	95
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PPT TO THOUSANDTHS	106
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	111
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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 9041	annual		NRCC	X					
Seatech transm.	?	x			x				