TO: E/OC12 - Douglas Hamilton

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Current Meters

(F015)

Acc: 9000294 Ref: TV5725 - TV5743 19 sta. 170,622 rec.

Battelle Pacific NW Division

cc: Division Director

19 170,622

ACCESSION NO. 90 0029 4 FILETYPE FO15 TRACK NO. PROJECT IDENTIFICATION TV5725-5743

STEP	DATE ,	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE DISKettes	12-10-90	FJM	NINE(9) 3.5"	19	60	_	
DUPLICATE TAPE	1-15-91	R.P.S.	W17785 *	1	60	6000	170,622
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* LABEL: DNOPC * BATOUT.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION # 9000294

THE FOLLOWING CURRENT METER DATA FILES WERE RECEIVED ON NINE (9) 3.5 INCH DISKETTES; THESE FILES WERE COPIED TO THE VAX 780 AND THENCE TO DAMUS.

VAX	FILENAME	DAMUS FILE NAME
1. BB17	ron.	DNODC*BLLE1. 5725
2. BB27	ron.	DNUBUABLLEZ.
3. BB37	ron.	DNODC*BLLE3. 7
4. BM17	ron.	DNODC*BLLE4. ~~ 8
5. BM2	ron.	DNODC*BLLE5.
6. BM37	ron.	DNODC*BLLE6.
7. BM45	ron.	DNODC*BLLE7.
8. BT13	ron.	DNODC*BLLE8.
9. BT27	ron.	DNODC*BLLE9.
10. BT37	ron.	DNODC*BLLE10.
11. BT47	ron.	DNODC*BLLE11.
12. MB17	ron.	DNODC*BLLE12.
13. MB23	ron.	DNODC*BLLE13.
14. MB37	ron.	DNODC*BLLE14.
15. MB47	ron.	DNODC*BLLE15.
16. MT17	ron.	DNODC*BLLE16.
17. MT23	ron.	DNODC*BLLE17.
18. MT33	ron.	DNODC*BLLE18.
19. MT47	ron.	DNODC*BLLE19.

= F. MITCHELL, E/OC13, 1-8-91 =

NOAA FORM 24-5

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	ATTENTION
Washington DC 20235	E/OC13, Dr. Anthony R. Picciolo
THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY	
XXORDINARY REGISTERED AIR CERT.	FIED GOVERNMENT SY HAND OTHER

Enclosed, find documentation and nine (9) 3.5" HD diskettes containing current meter data as received from Mr. Chris Sherwood, Battelle Northwest Div. The diskettes should contain a total of 19 files of current meter data in NODC File Type 015 as processed from four deployments from two locations (see attached documentation).

Deployment dates - 4/27/88 through 6/2/89



cc: Mr. Chris Sherwood, Battelle, Pacific Northwest Div.

m# 9000294

766



	·	
FORWARDED BY Signature TI DILLINGTH	TITLE	DATE FORWARDED
Sid Stillwaugh	NODC Liaison Officer, Seattle	12/6/90
RECEIVED BY (Signature)	TITLE	DATE RECEIVED
Lauces Millelle		100 Decar

NOAA PORM 24-5 (8-73)



RECEIVED

Pacific Northwest Division Marine Sciences Laboratory 439 West Seguim Bay Road Sequim, Washington 98382 (206) 683-4151

November 29, 1990

Mr. Sid Stillwaugh Pacific Northwest Liaison Office NOAA/NESDIS/NODC 7600 Sand Point Way N.E. Seattle, WA 98115

Dear Mr. Stillwaugh:

SUBJECT: Submission of Current Meter Data from Sites B1B and 1M to NODC Database

Enclosed please find disks containing current meter data recorded at two sites in the Gulf of the Farallones during 1988 and 1989. These data were collected by Pacific Northwest Laboratory for the U. S. Army Corps of Engineers, San Francisco District. A complete description of the program and results are contained in the enclosed two-volume report. The disk and data formats are described in Volume 2, Appendix D, of our report. I have also enclosed a completed Data Documentation Form.

I would appreciate a brief note acknowledging your receipt of the data. Please contact me at Battelle (206-683-4151) or at the University of Washington (543-5099) if you have any problems reading the disks or any questions regarding the data. 100 29 W

Sincerely,

Christopher R. Sherwood Research Scientist

Enclosures: 9-3.5" disks

Report PNL-7553 (2 volumes) Data Documentation Form

Duke Roberts, USACE, S.F. District

CRS: 1m



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 20235

FORM 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 SUBMIT Battelle Pacific Northwest Laboratory Marine Sciences Laboratory 439 West Sequim Bay Road Sequim. WA 98382 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH 3. CRUISE NUMBER(S) USED BY ORIGIN DATA WERE COLLECTED DATA IN THIS SHIPMENT Oakland Inner Harbor (see attached sheets) Dredged Material Disposal Monitoring Project 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) 6. PLATFORM AND OPERATOR 7. DATES (E.G., SHIP, BUOY, ETC.) NATIONALITY(IES) FROM: MODAY,YR TO: MO,DAY,YE PLATFORM OPERATOR B1B & M1 Subsurface moorings USA USA 4/27/88 6/2/89 8. ARE DATA PROPRIETARY? 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. X NO YES IF YES, WHEN CAN THEY BE RELEASED GENERAL AREA FOR GENERAL USE! YEAR_ 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-TIONAL EXCHANGE?) X YES PART (SPECIFY BELOW) 171 160 40 134 135 124 0731108 088 052 10. PERSON TO WHOM INQUIRIES CONCERNING 011 027 DATA SHOULD BE ADDRESSED WITH TELE-310 300 335 326 PHONE NUMBER (AND ADDRESS IF OTHER 341 336 371 362 382 398 THAN IN ITEM-1) 387 372 407 403 423 418 408 443 439 434 454 459 457 470 480 515 511 506 Chris Sherwood (206)683-4151 572 567 562 557 552587 140" 160" 180" 160" 140" 120" 100" 80" 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	Tor	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	\$\text{units and} percent by weight	Ewing corer	Standard sieves Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk 165

(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
Current U & V	M/S (x 100)	Neil Brown Smart Accoustic Current Meter with Temperature Sensor	N/A.	None
Temperature	^O C (x 100)	Neil Brown Smart Accoustic Current Meter with Temperature Sensor	N/A	despiking, surrounding values, replace spikes
			·	
	* 	•		
OAA FORM 24•13 .				DC 44285

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.

	S CONTAINED IN THE TRANSMIT DENTIFYING EACH RECORD TYP	
NODC 015 forma	t on DSHD 3 1/2" MS-DOS	diskettes
CIVE DRIFT DECOR		
GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	· · · · · · · · · · · · · · · · · · ·
(see attac	hed sheets)	
ATTRIBUTES AS EX	PRESSED IN PL-1	ALGOL COBOL
	FORTRAN	LANGUAGE
RESPONSIBLE COME	FORTRAN	_
NAME AND	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	ris Sherwood
NAME AND	FORTRAN	sis Sherwood
NAME AND	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	ris Sherwood West Seguina Bay Rd., Seguins, Wo. 983
NAME AND ADDRESS COMPLETE THIS	PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE SIGNIA BOY Rd., SIGNIA, WO. 983 NETIC TAPE 9. LENGTH OF INTER-
NAME AND ADDRESS COMPLETE THIS	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE NIS Servood West Seguina Bay Rd., Seguina, Wa. 983 NETIC TAPE
NAME AND ADDRESS COMPLETE THIS	PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE NAS Servood West Servood West Servood West Servood West Servood Netic tape 9. Length of Inter- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK
NAME AND ADDRESS COMPLETE THIS RECORDING MODE	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH
NAME AND ADDRESS COMPLETE THIS RECORDING MODE	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17
NAME AND ADDRESS COMPLETE THIS RECORDING MODE	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SULVOOO WIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST SIGNIM BOY Rd., SIGNIM, WO. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS)
ADDRESS COMPLETE THIS RECORDING MODE	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE Mest. Slama Boy Rd., Slama, Wa. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
NAME AND ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	FORTRAN PUTER SPECIALIST: D PHONE NUMBER	LANGUAGE MIST Slaving Bay Rd., Slaving, Wa. 983 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)

14. FIELD NAME	15. POSITION FROM - 1		ЗТН	17. ATTRIBUTES	18. USE AND MEANING
	MEASURED IN	NUMBER	UNITS		
	(e.g., bits, bytes)	NOMBER	UNITS		
					;
					į
		vee	atto	thed sheet	ts)
				thed shee	
			i		
					·
'					
NOAA FORM 24-13					

RECORD NAME		_				
14. FIELD NAME	15. POSITION FROM - 1 MEASURED	ì	GTH	17. ATTRIBUTES	18. USE AND MEANING	
	IN_	NUMBER	UNITS			
	(e.g., bits, bytes)					
		<u> </u>		}		
1						
				:		
					İ	
	:					
		İ				
		!				
		!	!			
			ļ			
1						

T. FIELD NAME 1. FORM 1 1. ENGTH 17. ATTRIBUTES 18. USE AND MEANING 18. USE A	RECORD NAME					
NUMBER UNITS	14. FIFLD NAME	IIS POSITION	16 LEN	GTH	17 ATTRIBUTES	118 LISE AND MEANING
MEASURED NO PROPERTY OF THE PR	TITE NAME	FROM-1	, LEN	O I II	AT TRIBUTES	10. USE AND MEANING
N (C.4) 20(0, 5yr00) NUMBER UNITS		MEASURED	Ì			1
(r.e.g. Min. byras) NAMEER UNITS		I IMI				
			NUMBER	UNITS		
		(e.g., one, bytes)				· · · · · · · · · · · · · · · · · · ·
					1	1
	ŀ	1				
		1				
	i					
	İ					
	1	1				
	1					
	1					
	i					
		ļ			Ì	
	1	İ			1	
	1	1				•
		1			İ	
]	Ì				
	1		'		}	
		li.				
	!					
	l	1	1			i
		1			Ì	
		1				
	1					
	i		1		}	
	j		, :			
	i	Ì				
	ŧ					
	İ	i	1		!	
	İ					
	1	1				
						i
	:					
		!			1	
	1					
						,
	1	1	l		1	
NOAA FORM ALLD		İ			{	1
NOAA FORM A4-12	1	1		1	1	
NOAA FORM 24-12	1	1			1	
NOAA FORM A4-12	1		{			
NOAA FORM A4-12		1		1		
NOAA FORM 24-12		1	}		1	
NOAA FORM 24-12				1		1
NOAA FORM A4-12	i	1	ŀ	l		
NOAA FORM A4-12	Υ					
NOAA FORM ALLIA	4	J				
NOAA FORM ALIA		}	}		1	
NOAA FORM ALIA	1	1		ļ	1	1
NOAA FORM 24-12	1					
NOAA FORM 24-12	[l	1	
	NOAA FORM ST. 12		<u> </u>	! _	L	

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

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 ("V") 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					INSTRU- MENT IS
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW	NOT CALI- BRATED (√)
,									

APPENDIX D

CURRENT-METER DATA FILE FORMAT

This appendix describes the contents of data disks prepared for submission to the National Oceanographic Data Center (NODC). The disks contain data recorded by current meters moored in the Gulf of the Farallones as part of an oceanographic study conducted by the Pacific Northwest Laboratory (PNL) for the U.S. Army Corps of Engineers (USACE), San Francisco District. A complete description of the study and an analysis of the results is presented elsewhere in this report.

The original 19 data files were received from KLI and subsequently edited at PNL. The final data files differ from the original data in five ways: 1) the header information has been standardized in all files, 2) the location (latitude and longitude) have been corrected in all files, 3) temperature data were despiked (outliers were replaced by averaging the adjacent four points) in all but two files (1385 records were changed in total), 4) missing velocity components were replaced by interpolation in one file (10 records were changed), and 5) the first data record was deleted in two files.

These data are publicly available through NODC:

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Oceanographic Data Center Records Section
Washington, D.C. 20235

D.1 FORMAT

D.1.1 Disk Format

The distribution disks are 3.5-in. double-sided, high-density floppy disks formatted for 1.44 Mb using IBM DOS 3.30. Data are contained in 19 American Standard Code for Information Interchange (ASCII) files on 9 disks. File names and contents are summarized in Table D.1.

D.1.2 File Format

File format conforms to NODC Format F015 (NODC 1984, Table D.2). The NODC file structure uses four types of 60-character records: 1) Text Record containing descriptive header information, 2) Master Record containing specific header information, and either 3) Detail Record 1 containing currentmeter data, or 4) Detail Record 2 containing current-meter data. All of the files contained on these distribution disks use the following structure: 1) the first record in the file is a Text Record, 2) the second record is a Master Record, and 3) remaining records are data records of type Detail Record 2. The number of Detail Records varies with the length of the data file and can be determined by subtracting two from the number of records listed in Table D.1. Record format for each record type is specified in Table D.2. Note that the current meters used did not have pressure or conductivity sensors; thus, no data appear in those columns. A listing of the first 30 records in file BT1TON (Table D.3) provides an example of the file and record formats.

D.2 REFERENCE

NODC (National Oceanographic Data Center). 1984. National Oceanographic Data Center Users Guide Key to Oceanographic Records Documentation No. 14. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, Washington, D.C.

TABLE D.1. Summary of Current-Meter Data Files in NODC Format

Disk Number	File Name	Station Name	Number <u>Rec</u>	Water Depth,	Instr. Depth,	Loca: Latitude	tion Longitude	Start Date	Stop Date
1	bt1t0n.	B1BTA8	8 4008	86	21	37°28'06"N	122°47'09"W	4/27/88	6/ 7/88
1	bt2t0n.	B1886T	9 9214	86	21	37°28'13"N	122°47'03"W	6/ 9/88	9/13/88
2	bt3t0n.	B1889T	10 12197	86	21	37°28'15"N	122°46'43"W	9/15/88	1/20/89
3	bt4t0n.	B1891T	711815~	86	21	37°28'13"N	122°47'03"W	1/30/89	6/ 2/89
3	bm1tOn.	B1BMA8	4 4009 ~	86	46	37°28'06"N	122°47'09"W	4/27/88	6/ 7/88
1	bm2t0n.	B1886M	5 9205	86	46	37°28'13"N	122°47'03"W	6/ 9/88	9/13/88
4	bm3tOn.	B1889M	€ 12197 ✓	86	46	37°28'15"N	122°46'43"W	9/15/88	1/20/89
5	bm4tOn.	B1891M	511816/	86	46	37°28'13"N	122°47'03"W	1/30/89	6/ 2/89
3	bb1tOn.	B1BBA8	1 4011 ~	86	85	37°28'06"N	122°47'09"W	4/27/88	6/ 7/88
5	bb2t0n.	B1886B	Z 9215·	86	85	37°28'13"N	122°47'03"W	6/ 9/88	9/13/88
6	bb3t0n.	B1889B	→ 12197 ✓	86	85	37°28'15"N	122°46'43"W	9/15/88	1/20/89
6	mt1tOn.	1MTA8	16 2953 /	42	21	37°38'50"N	122°42'01"W	5/ 8/88	6/ 7/88
6	mt2tOn.	1M886T	17 8051	42	21	37°38'43"N	122°42'16"W	6/ 9/88	9/ 1/88
7	mt3t0n.	1M889T	/8 12997	42	21	37°38'39"N	122°42'19"W	9/ 3/88	1/17/89
2	mt4t0n.	1M891T	1911252 V	42	21	37°38′43″N	122°42'16"W	1/30/89	5/28/89
3	mb1tOn.	1MBA8	12 2509 /	42	40	37°38'50"N	122°42'01"W	5/ 8/88	6/ 3/88
4	mb2t0n.	1M886B	13 8052	42	40	37°38'43"N	122°42'16"W	6/ 9/88	9/ 1/88
8	mb3t0n.	1M889B	14 13094 🗸	42	40	37°38'39"N	122°42'19"W	9/ 2/88	1/17/89
9	mb4t0n.	1M891B	1111111	42	40	37°38'43"N	122°42′16″W	1/30/89	6/ 2/89

TABLE D.2. NODC File Format (after NODC 1984)

Current Meter Data (Components) (F015)

<u>Parameter</u>	<u>Description</u>	<u>Columr</u>	
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 in hundredths	16	
Longitude	DDDMMXX plus hemisphere 'E' or 'W' minutes in hundredths	23	
Depth of Bottom	XXXXX (Whole Meters)	31	
Depth of Current Meter	XXXXX (Meters in Tenths)	36	
Meter Usage Sequence Number	XXX - Used for indicating number of times meter has been used	41	
(NODC_Use)	Two characters for NODC internal use	44	
Axis Rotation	<pre>XXX - Degrees clockwise from true north of V axis - values should be O when final processed to provide true direction information</pre>	46	
Location Name	Six-character name determined by originator	49	
Number of Detail	<pre>XXXXXX - used to indicate number of detail records (3) to follow the master record (2)</pre>	55	
Detail Record 1	Always '3'	10	
Meter Number	See Record '1'	11	
Date (GMT)	YYMMDD	16	
Time (GMT)	XXXXXX (Hours, Minutes in hundredths)	22	
East-West Current Component (U)	XXXXXX - CM/SEC in 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 in hundredths with positive directions (east and north) indicated without plus sign - negative directions (west and south) preceded by minus sign - direction toward	34	

TABLE D.2. (contd) Current Meter Data (Components) (F015)

Parameter	XXXXX with negative temperatures preceded by minus sign (deg C to thousandths)				
Temperature					
Pressure	XXXXX (decibars in tenths)	45			
Conductivity	XXXX - MMHOS/CM in hundredths	50			
Blank	AAAA TII III III III III III III III III	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	16			
Time (GMT)	XXXXXX (hours, minutes in hundredths)	22			
East-West Current	XXXXXX - CM/SEC in hundredths with	28			
Component (U)	positive directions (east and north) indicated without plus sign - negative directions (west and south) preceded by minus sign - direction toward				
North-South Current	XXXXXX - CM/SEC in hundredths with	34			
Component (V)	positive directions (east and north)indicated without plus sign - negative directions (west and south) preceded by minus sign				
Temperature	XXXXX with negative temperatures preceded by minus sign (deg C				
	thousandths)	40			
Pressure	XXXXX (decibars in tenths)	45			
Salinity	XXXXX parts per thousand in thousandths	50			
Sequence Number	XXXXXX - used for sorting data records	55			

TABLE D.3. NODC File Sample (First 30 records from File BT1TON)

015B1BTA81S1070US	ACE/PNL B1B	TOP	DEPL 1 OF	4	1
015B1BTA82S107037	2809N122471	5W 8	36 210	0B1B	4006
015B1BTA84S107088	427040000	889	143011210		1
015B1BTA84S107088	427041500	641	143811230		2
015B1BTA84S107088	427043000	866	91711200		3
015B1BTA84S107088	427044500	728	43611010		4
015B1BTA84S107088	427050000	810	28810700		5
015B1BTA84S107088	427051500	393	-910960		6
015B1BTA84S107088	427053000	286	-16510920		7
015B1BTA84S107088	427054500	489	-32710710		8
015B1BTA84S107088	427060000	766	-59410590		9
015B1BTA84S107088	427061500	557	-59610690		10
015B1BTA84S107088	427063000	357	-49710980		111
015B1BTA84S107088	427064500	602	-29711540		12
015B1BTA84S107088	427070000	117	-97010540		13
015B1BTA84S107088	427071500	782	-126511130		14
015B1BTA84S107088	427073000	-12	-105811100		15
015B1BTA84S107088	427074500	-29	-126110870		16
015B1BTA84S107088	427080000	24	-129711330		17
015B1BTA84S107088	427081500	-276	-154410770		18
015B1BTA84S107088	427083000	-164	-180510580		19
015B1BTA84S107088	427084500	-548	-154911470		20
015B1BTA84S107088	427090000	-109	-175811630		21
015B1BTA84S107088	427091500	-505	-183211170		22
015B1BTA84S107088	427093000	-771	-181811630		23
015B1BTA84S107088	427094500	-837	-175710880		24
015B1BTA84S107088	427100000	-864	-185311430		25
015B1BTA84S107088	427101500	-820	-126311750		26
015B1BTA84S107088	427103000	-770	-152710900		27
015B1BTA84S107088	427104500	-430	-120810460		28
015B1BTA84S107088	427110000	-361	-133210530		29
015B1BTA84S107088	427111500	-921	-140011160		30

_			,				-	
D	2	C	C	7.7	\sim	r	d	٠
F	а	3	3	w	v	_	u	•

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9000294	F015	TV5725	9999	31BD	317F	1988/04/27	S1070	194178
9000294	F015	TV5726	9999	31BD	317F	1988/06/09	S1070	194179
9000294	F015	TV5727	9999	31BD	317F	1988/09/15	S1070	194180
9000294	F015	TV5728	9999	31BD	317F	1989/01/30	S1072	194181
9000294	F015	TV5729	9999	31BD	317F	1988/04/27	S1072	194182
9000294	F015	TV5730	9999	31BD	317F	1988/06/09	S1072	194183
9000294	F015	TV5731	9999	31BD	317F	1988/09/15	S1072	194184
9000294	F015	TV5732	9999	31BD	317F	1989/01/30	S1075	194185
9000294	F015	TV5733	9999	31BD	317F	1988/04/27	S1075	194186
9000294	F015	TV5734	9999	31BD	317F	1988/06/09	S1075	194187
9000294	F015	TV5735	9999	31BD	317F	1988/09/15	S1075	194188
9000294	F015	TV5736	9999	31BD	317F	1988/05/08	S1059	194189
9000294	F015	TV5737	9999	31BD	317F	1988/06/09	S1059	194190
9000294	F015	TV5738	9999	31BD	317F	1988/09/03	S1059	194191
9000294	F015	TV5739	9999	31BD	317F	1989/01/30	S1059	194192
9000294	F015	TV5740	9999	31BD	317F	1988/05/08	S1079	194193
9000294	F015	TV5741	9999	31BD	317F	1988/06/09	S1079	194194
9000294	F015	TV5742	9999	31BD	317F	1988/09/02	S1079	194195
9000294	F015	TV5743	9999	31BD	317F	1989/01/30	S1070	194196
						•		

(19 rows affected)

Pasśword: accNo fleA refNo ship staCnt recCnt startDate endDate											
accNo	ileA	reino	snip	stacht	recent	startDate	endDate				
9000294	F015	TV5725	317F	3	4009	88/04/27	88/06/01				
9000294	F015	TV5726	317F	4	9215	88/06/09	88/09/01				
9000294	F015	TV5727	317F	5	12198	88/09/15	89/01/01				
9000294	F015	TV5728	317F	6	11817	89/01/30	89/06/01				
9000294	F015	TV5729	317F	3	4010	88/04/27	88/06/01				
9000294	F015	TV5730	317F	4	9206	88/06/09	88/09/01				
9000294	F015	TV5731	317F	5	12198	88/09/15	89/01/01				
9000294	F015	TV5732	317F	6	11812	89/01/30	89/06/01				
9000294	F015	TV5733	317F	3	4012	88/04/27	88/06/01				
9000294	F015	TV5734	317F	4	9216	88/06/09	88/09/01				
9000294	F015	TV5735	317F	5	12198	88/09/15	89/01/01				
9000294	F015	TV5736	317F	2	2954	88/05/08	88/06/01				
9000294	F015	TV5737	317F	4	8052	88/06/09	88/09/01				
9000294	F015	TV5738	317F	5	12998	88/09/03	89/01/01				
9000294	F015	TV5739	317F	5	11253	89/01/30	89/05/01				
9000294	F015	TV5740	317F	2	2510	88/05/08	88/06/01				
9000294	F015	TV5741	317F	4	8053	88/06/09	88/09/01				
9000294	F015	TV5742	317F	5	13095	88/09/02	89/01/01				
9000294	F015	TV5743	317F	6	11816	89/01/30	89/06/01				

(19 rows affected)