

77-0285

TW3758-TW3776

F015 UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

March 16, 1977

Department of Oceanography

Cable Address: UNWADO

77-005

NOAA
Environmental Data Service
National Oceanographic Data Center
Page Building 1 Code D75
2001 Wisconsin Ave. NW
Washington, D.C. 20235

Dear Sir:

Enclosed magnetic tape contains current meter data collected on the Washington continental shelf during 1975. These data were collected as part of work sponsored by both NSF and ERDA.

Platform: All meters were deployed via anchored taut-wire moorings with sub-surface floats.

Instrument: Of the 19 data records 16 are from Aanderaa RCM-4 digital magnetic tape recording meters and 3 are from Braincon 381 film recording meters. The meter type can be determined from the meter number which appears as the last six characters of the ID field in the label record. The Aanderaa meter numbers are entirely numeric (e.g. 1297/1) whereas Braincons are of the form XXX/BR.

Recording Mode and Treatment: The sensing mode of the Aanderaa meters results in spot samples of direction, temperature, pressure and conductivity sensors each interrogation interval and an average speed over the interrogation interval. The digitizing method applied to the Braincon film records produces an average speed over the sampling interval and a direction somewhere between the mean and mode during the interval.

The interrogation interval was ten minutes for all Aanderaa RCM-4 meters and twenty minutes for the Braincon meters. This interval is implicit in the data since date and time of each data point is specified. The raw speed and direction data were plotted and edited for unacceptable values. These edited data were then filtered as follows: An N point binomial filter (N is specified in the label records) was applied to the speed. The corresponding N direction values were treated as unit vectors and vectorially added to produce a smoothed direction. These filtered speed and direction values were then used to calculate the corresponding U and V

components. The temperature, pressure, and conductivity values which appear on certain of the Aanderaa records have not been filtered. The temperature and pressure data have been edited only for large spikes and the conductivity data is essentially unedited. Calibration data for the Aanderaa conductivity cell have not been satisfactory and at most these values give an indication of relative change. These data should not be released without this warning.

A data documentation form is attached which in combination with this letter will hopefully contain the necessary description of these data. To save time I would appreciate receiving a new replacement tape instead of your copying this tape.

Sincerely yours,

John R. Beck

John R. Beck
Oceanographer

*Tape sent by
C. Selkirk on
April 1, 1977.*

JRB:sb

Enclosures

C. DATA FORMAT

77-0285

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.

Label Record - First Record in Any File
Data Record - Remaining Records in Each File

2. PLEASE GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Tape is multi-file with one file per current meter. All meters from one array are grouped in depth order, top to bottom. Logical records are blocked 20 per physical record. Last valid data record is followed by a blank record with direction = 9999 and the remainder of the block filled with blanks. Total number of files on tape = 19

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Hella MacIntosh 543-0738
ADDRESS Dept of Ocean, Univ of Wash Seattle Wa. 98105

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☒ BCD ☐ BINARY ☐ ASCII ☐ EBCDIC ☐ _____	9. LENGTH OF IRG ☒ 3/4 INCH ☐ _____
6. NUMBER OF TRACKS (CHANNELS) ☒ SEVEN ☐ NINE ☐ _____	10. END OF FILE MARK ☒ OCTAL 17 ☐ _____
7. PARITY ☐ ODD ☒ EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) <u>WISP Current Meter Data</u> <u>Feb - March 1975 19 files</u>
8. DENSITY ☐ 200 CPI ☐ 1600 CPL ☐ 556 CPI ☒ 800 CPI ☐ _____	12. PHYSICAL BLOCK LENGTH IN BYTES <u>1000</u> 13. LENGTH OF BYTES IN BITS <u>6</u>

SECTION 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., 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.

NOTE: The form for this information is on the reverse side of the page.

RECORD FORMAT DESCRIPTION

RECORD NAME

Label Record

14. FIELD NAME	15. MEASURE- MENT UNITS AND LOCATION FROM (1)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ID	Bytes 1	10	char	A 10	Meter ID
DPTH	Bytes 11	5	char	I 5	Depth in meters
LAT	Bytes 16	10	char	A 10	Latitude
LON	Bytes 26	10	char	A 10	Longitude
NPF	Bytes 36	3	char	I 3	Number of points in filter

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. MEASURE- MENT UNITS AND LOCATION FROM (1)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

RECORD FORMAT DESCRIPTION

RECORD NAME

Data Record

14. FIELD NAME	15. MEASURE- MENT UNITS AND LOCATION FROM (1)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<i>Date</i>	<i>1</i>	<i>6</i>	<i>Char</i>	<i>I6</i>	<i>MMDDYY</i>
<i>Time</i>	<i>7</i>	<i>4</i>	<i>"</i>	<i>I4</i>	<i>hour and minutes</i>
<i>SPD</i>	<i>11</i>	<i>6</i>	<i>"</i>	<i>F6.1</i>	<i>speed cm/sec</i>
<i>DIR</i>	<i>17</i>	<i>4</i>	<i>"</i>	<i>I4</i>	<i>direction</i>
<i>U</i>	<i>21</i>	<i>6</i>	<i>"</i>	<i>F6.1</i>	<i>U (+east) component cm/sec</i>
<i>V</i>	<i>27</i>	<i>6</i>	<i>"</i>	<i>F6.1</i>	<i>V (+north) component cm/sec</i>
<i>T</i>	<i>33</i>	<i>6</i>	<i>"</i>	<i>F6.2</i>	<i>temperature °C</i>
<i>P</i>	<i>39</i>	<i>6</i>	<i>"</i>	<i>F6.1</i>	<i>pressure psi</i>
<i>C</i>	<i>45</i>	<i>6</i>	<i>"</i>	<i>F6.2</i>	<i>conductivity mmho/cm</i>

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. MEASURE- MENT UNITS AND LOCATION FROM (1)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
7700285	TW3758	F015		3109	317F	31297/1	02/22/75	03/26/75	1	4,577
7700285	TW3759	F015		3109	317F	3525/04	02/22/75	03/16/75	1	3,147
7700285	TW3760	F015		3109	317F	3529/06	02/22/75	03/26/75	1	4,578
7700285	TW3761	F015		3109	317F	3298/09	02/22/75	03/26/75	1	4,581
7700285	TW3762	F015		3109	317F	6353/08	02/24/75	03/27/75	1	4,495
7700285	TW3763	F015		3109	317F	6796/04	02/24/75	03/27/75	1	4,493
7700285	TW3764	F015		3109	317F	6351/12	02/24/75	03/17/75	1	3,110
7700285	TW3765	F015		3109	317F	7349/11	03/27/75	04/16/75	1	2,850
7700285	TW3766	F015		3109	317F	7798/03	03/27/75	05/06/75	1	5,713
7700285	TW3767	F015		3109	317F	71300/2	03/27/75	05/06/75	1	5,713
7700285	TW3768	F015		3109	317F	1797/02	01/11/75	02/22/75	1	6,055
7700285	TW3769	F015		3109	317F	1349/10	01/11/75	02/22/75	1	6,058
7700285	TW3770	F015		3109	317F	11300/1	01/11/75	02/22/75	1	6,059
7700285	TW3771	F015		3109	317F	1350/11	01/11/75	02/22/75	1	6,058
7700285	TW3772	F015		3109	317F	5350/12	02/23/75	04/05/75	1	5,837
7700285	TW3773	F015		3109	317F	5354/07	02/25/75	03/22/75	1	3,549
7700285	TW3774	F015		3109	317F	2130/BR	02/22/75	03/22/75	1	2,030
7700285	TW3775	F015		3109	317F	2 74/BR	02/22/75	03/27/75	1	2,364
7700285	TW3776	F015		3109	317F	2153/BR	02/22/75	03/22/75	1	2,048

19 83315

ACCESSION NO. 7700285 FILETYPE F015TRACK NO. Tw 3258-3276PROJECT IDENTIFICATION W15P

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	3-16-77	FDM	* <u>W17685</u>	19	52	1040	83500
DUPLICATE TAPE	5-15-92	R.P.S.	<u>W53201</u> **	1	52	5200	83500
REFORMATTED TAPE	5-19-92	R.P.S.	<u>W58552</u> ***	1	60	6000	83400
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * 7 trk tape sent to Asheville March 27,
to be converted.

** DNODC * WASHCRR9.

*** DNODC * UWASHCRR00T.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D015P

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
7700285	TW3758	F015		3109	317F	31297/1	02/22/75	03/26/75	1	4,577
7700285	TW3759	F015		3109	317F	3525/04	02/22/75	03/16/75	1	3,147
7700285	TW3760	F015		3109	317F	3529/06	02/22/75	03/26/75	1	4,578
7700285	TW3761	F015		3109	317F	3298/09	02/22/75	03/26/75	1	4,581
7700285	TW3762	F015		3109	317F	6353/08	02/24/75	03/27/75	1	4,495
7700285	TW3763	F015		3109	317F	6796/04	02/24/75	03/27/75	1	4,493
7700285	TW3764	F015		3109	317F	6351/12	02/24/75	03/17/75	1	3,110
7700285	TW3765	F015		3109	317F	7349/11	03/27/75	04/16/75	1	2,850
7700285	TW3766	F015		3109	317F	7798/03	03/27/75	05/06/75	1	5,713
7700285	TW3767	F015		3109	317F	71300/2	03/27/75	05/06/75	1	5,713
7700285	TW3768	F015		3109	317F	1797/02	01/11/75	02/22/75	1	6,055
7700285	TW3769	F015		3109	317F	1349/10	01/11/75	02/22/75	1	6,058
7700285	TW3770	F015		3109	317F	11300/1	01/11/75	02/22/75	1	6,059
7700285	TW3771	F015		3109	317F	1350/11	01/11/75	02/22/75	1	6,058
7700285	TW3772	F015		3109	317F	5350/12	02/23/75	04/05/75	1	5,837
7700285	TW3773	F015		3109	317F	5354/07	02/25/75	03/22/75	1	3,549
7700285	TW3774	F015		3109	317F	2130/BR	02/22/75	03/22/75	1	2,030
7700285	TW3775	F015		3109	317F	2 74/BR	02/22/75	03/27/75	1	2,364
7700285	TW3776	F015		3109	317F	2153/BR	02/22/75	03/22/75	1	2,048

19 83315

ACCESSION NO. 77-00285 FILETYPE F015

PROJECT IDENTIFICATION W15P

TRACK NO. Tw 3758-3776

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3-16-77	FDM	* <u>W117685</u>	19	52	1040	83500
DUPLICATE TAPE	5-15-92	R.P.S.	<u>W53201</u> **	1	52	5200	83500
REFORMATTED TAPE	5-19-92	R.P.S.	<u>W58552</u> ***	1	60	6000	83410
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * 7trk tape sent to Arhville March 27, 1992
to be converted.

** DNOC * WASHCRR9.

*** DNOC * UWASHCRR0UT.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

DDISP

✓
Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
7700285	F015	TW3758	9999	3109	317F	1975/02/22	31297/1	303248
7700285	F015	TW3759	9999	3109	317F	1975/02/22	3525/04	303249
7700285	F015	TW3760	9999	3109	317F	1975/02/22	3529/06	303250
7700285	F015	TW3761	9999	3109	317F	1975/02/22	3298/09	303251
7700285	F015	TW3762	9999	3109	317F	1975/02/24	6353/08	303252
7700285	F015	TW3763	9999	3109	317F	1975/02/24	6796/04	303253
7700285	F015	TW3764	9999	3109	317F	1975/02/24	6351/12	303254
7700285	F015	TW3765	9999	3109	317F	1975/03/27	7349/11	303255
7700285	F015	TW3766	9999	3109	317F	1975/03/27	7798/03	303256
7700285	F015	TW3767	9999	3109	317F	1975/03/27	71300/2	303257
7700285	F015	TW3768	9999	3109	317F	1975/01/11	1797/02	303258
7700285	F015	TW3769	9999	3109	317F	1975/01/11	1349/10	303259
7700285	F015	TW3770	9999	3109	317F	1975/01/11	11300/1	303260
7700285	F015	TW3771	9999	3109	317F	1975/01/11	1350/11	303261
7700285	F015	TW3772	9999	3109	317F	1975/02/23	5350/12	303262
7700285	F015	TW3773	9999	3109	317F	1975/02/25	5354/07	303263
7700285	F015	TW3774	9999	3109	317F	1975/02/22	2130/BR	303264
7700285	F015	TW3775	9999	3109	317F	1975/02/22	2	303265
7700285	F015	TW3776	9999	3109	317F	1975/02/22	2153/BR	303266

(19 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7700285	F015	TW3758	317F	1	4577	75/02/22	75/03/26
7700285	F015	TW3759	317F	1	3147	75/02/22	75/03/16
7700285	F015	TW3760	317F	1	4578	75/02/22	75/03/26
7700285	F015	TW3761	317F	1	4581	75/02/22	75/03/26
7700285	F015	TW3762	317F	1	4495	75/02/24	75/03/27
7700285	F015	TW3763	317F	1	4493	75/02/24	75/03/27
7700285	F015	TW3764	317F	1	3110	75/02/24	75/03/17
7700285	F015	TW3765	317F	1	2850	75/03/27	75/04/16
7700285	F015	TW3766	317F	1	5713	75/03/27	75/05/06
7700285	F015	TW3767	317F	1	5713	75/03/27	75/05/06
7700285	F015	TW3768	317F	1	6055	75/01/11	75/02/22
7700285	F015	TW3769	317F	1	6058	75/01/11	75/02/22
7700285	F015	TW3770	317F	1	6059	75/01/11	75/02/22
7700285	F015	TW3771	317F	1	6058	75/01/11	75/02/22
7700285	F015	TW3772	317F	1	5837	75/02/23	75/04/05
7700285	F015	TW3773	317F	1	3549	75/02/25	75/03/22
7700285	F015	TW3774	317F	1	2030	75/02/22	75/03/22
7700285	F015	TW3775	317F	1	2364	75/02/22	75/03/27
7700285	F015	TW3776	317F	1	2048	75/02/22	75/03/22

(19 rows affected)