

DDF-B:2:10

DATA DOCUMENTATION FORM

TR 2994  
F015

NOAA FORM 24-13  
(4-77)

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

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

TT1465 - TT1483

(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

8-009

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			
PMEL / NOAA 3711 15 th Avenue N.E. Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
P.SERP MESA		File id = MESA N	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
MESA N	BUOY	U.S.	U.S.
		PLATFORM	OPERATOR
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		6/11/77	8/31/77
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.	
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)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Mr. Pat Laird (206) 442 7450			

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
SPEED				
U-Direction	CM/SEC	Aanderaa Current Meter RCM-4	N/A	N/A
V-Direction	CM/SEC	"	"	"
TEMPERATURE	°C	"	"	"
CONDUCTIVITY	°/∞	"	"	"
PRESSURE	DECIBARS	"	"	"

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

Three (3) record types, text record (1), meter master record (2), and detail record (3), differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST: Donna McCampbell (206) 543 2007  
NAME AND PHONE NUMBER  
ADDRESS Dept. of Oceanography, University of Washington, Seattle, Wa. 98195

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOAA/PMEL P SERP MESA</p> <p style="text-align: right;">6/19/77 8/3/77</p> <p>File # <u>1</u> File id = MESA N</p> <p>7 TRACK, BCD, 800 BPI, EVEN PARITY</p> <p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">3600 bytes</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">6 bits</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	

Vol. Ser = JFR12 (orig)

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

USER TAPE

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D752-NOAA/EDS/NODC--202 6347505  
ADDRESS WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="font-size: 2em; text-align: center;">005315 (ISL)</p> <p style="font-size: 1.5em; text-align: center;"><del>DEN</del> = TR2994</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI    <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="font-size: 1.5em; text-align: center;">4800</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="font-size: 2em; text-align: center;">60</p>

*MSB.*

Date: 10/15/75

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM-1- MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA N
Record Type	10	1	"	I1	Always '1'
Meter Number	11	5	"		Analogous to NODC Station Number
Text	16	38	"	38A1	Additional pertinent information
Blank	54	1	"	1X	
Sequence Number	55	6	"	I6	Ascending numeric, used for sorting
METER MASTER RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		
Record Type	10	1	"	I1	Always '2'
Meter Number	11	5	"		Analogous to NODC Station Number
Latitude,					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths of minutes	20	2	"	I2	
Hemisphere	22	1	"	A1	'N' or 'S'
Longitude,					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths of minutes	28	2	"	I2	
Hemisphere	30	1	"	A1	'E' or 'W'
Depth to bottom	31	5	"	I5	Whole meters
Depth of current meter	36	5	"	I5	To tenths of a meter
Meter Usage					Number of times meter has been used.
Sequence Number	41	3	"	I3	
Institution Code	44	2	"	A2	NODC Institution Code
Axis Rotation	46	3	"	I3	In whole degrees clockwise from true north of V axis
Location Name	49	6	"	A6	OCSEP internal location code
Number of detail records	55	6	"	I6	Number of type '3' records

CURRENT METER  
RECORD FORMAT DESCRIPTION

*W. J.*  
Date: 10/15/

RECORD NAME DETAIL RECORD (REQUIRED)

14. FIELD NAME	15. POSITION <del>FROM</del> MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA N
Record Type	10	1	"	I1	Always '3'
Meter Number	11	5	"		Analogous to NODC Station #
Year	16	2	"	I2	Last two digits of years)
Month	18	2	"	I2	1-12
Day	20	2	"	I2	1-31
Time,					
Hour	22	2	"	I2	0-23
Minute	24	2	"	I2	0-59
Hundredth of minute	26	2	"	I2	0-99
East-West (u)	28	6	"	I6	To hundredths. Positive (E and North) understood.
North-South (v)	34	6	"	I6	Negative (West and South) w. negative sign.
Temperature	40	5	"	I5	To thousandths. Minus sign negative
Pressure	45	5	"	I5	To tenths
Conductivity	50	5	"	I4	To hundredths
Blank	54	1	"	1X	
Sequence Number	55	5	"	I5	Ascending numeric, used for sorting

### 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 Current Meter RCM-4		X				X			
" same meter	SEPT 76		NOIC	1 yr.					

DATA DOCUMENTATION FORM

TR 2995  
FOIS

NOAA FORM 24-13  
(4-77)

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

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

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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			
PMEL / NOAA 3711 15 th Avenue N.E. Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
PSERP MESA		File id = MESA E	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
MESA E	BUOY	U.S.	U.S.
		PLATFORM	OPERATOR
		U.S.	U.S.
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		6/20/77	8/4/77
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		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)			
Mr. Pat Laird (206) 442 7450			



### 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
SPEED				
U-Direction	CM/SEC	Aanderaa Current Meter RCM-4	N/A	N/A
V-Direction	CM/SEC	"	"	"
TEMPERATURE	°C	"	"	"
CONDUCTIVITY	°/∞	"	"	"
PRESSURE	DECIBARS	"	"	"

C. DATA FORM 1

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

Three (3) record types, text record (1), meter master record (2),  
and detail record (3), differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST: Donna McCampbell (206) 543 2007  
NAME AND PHONE NUMBER  
ADDRESS Dept. of Oceanography, University of Washington, Seattle, Wa. 98195

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOAA/PMEL P SERP MESA</p> <p style="text-align: right;">6/20/77 8/4/77</p> <p>File # 2 File id = MESA E</p> <p>7 TRACK, BCD, 800 BPI, EVEN PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3600 bytes</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>6 bits</p>

Vol. Ser. = JRI12 (orig.)

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

USER TAPE

[Empty box for listing record types]

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for file organization description]

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D 752-NOAA/EDS/NODC--202 6347505  
ADDRESS WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><b>005315 (1,5L)</b></p> <p><b>DSN=TR2994</b></p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><b>4800</b></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><b>60</b></p>

*MSB*

RECORD NAME TEXT RECORD (OPTIONAL)

Date: 10/15/75

14. FIELD NAME	15. POSITION FROM - TO - MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA E
Record Type	10	1	"	I1	Always '1'
Meter Number	11	5	"		Analogous to NODC Station Number
Text	16	38	"	38A1	Additional pertinent information
Blank	54	1	"	1X	
Sequence Number	55	6	"	I6	Ascending numeric, used for sorting
METER MASTER RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		
Record Type	10	1	"	I1	Always '2'
Meter Number	11	5	"		Analogous to NODC Station Number
Latitude,					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths of minutes	20	2	"	I2	
Hemisphere	22	1	"	A1	'N' or 'S'
Longitude,					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths of minutes	28	2	"	I2	
Hemisphere	30	1	"	A1	'E' or 'W'
Depth to bottom	31	5	"	I5	Whole meters
Depth of current meter	36	5	"	I5	To tenths of a meter
Meter Usage					Number of times meter has been used.
Sequence Number	41	3	"	I3	
Institution Code	44	2	"	A2	NODC Institution Code
Axis Rotation	46	3	"	I3	In whole degrees clockwise from true north of V axis
Location Name	49	6	"	A6	OCSEP internal location code
Number of detail records	55	6	"	I6	Number of type '3' records

CURRENT METER  
RECORD FORMAT DESCRIPTION

*[Signature]*  
Date: 10/15/

RECORD NAME DETAIL RECORD (REQUIRED)

14. FIELD NAME	15. POSITION <del>FROM 1-</del> MEASURED IN Bytes  (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA E
Record Type	10	1	"	I1	Always '3'
Meter Number	11	5	"		Analogous to NODC Station N
Year	16	2	"	I2	Last two digits of years)
Month	18	2	"	I2	1-12
Day	20	2	"	I2	1-31
Time,					
Hour	22	2	"	I2	0-23
Minute	24	2	"	I2	0-59
Hundredth of minute	26	2	"	I2	0-99
East-West (u) Current Component	28	6	"	I6	To hundredths. Positive (E and North) understood.
North-South (v) Current Component	34	6	"	I6	Negative (West and South) w negative sign.
Temperature	40	5	"	I5	To thousandths. Minus sign negative
Pressure	45	5	"	I5	To tenths
Conductivity	50	5	"	I4	To hundredths
Blank	54	1	"	1X	
Sequence Number	55	5	"	I5	Ascending numeric, used for sorting

### 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 Current Meter RCM-4		X				X			
" same meter	MAY 77		NOIC	1 yr.					

DATA DOCUMENTATION FORM

TR 2996  
FOIS

NOAA FORM 24-13  
(4-77)

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

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

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

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THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>PMEL / NOAA 3711 15 th Avenue N.E. Seattle, Washington 98105</p>			
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>PSERP MESA</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>File id = MESA S</p>	
<p>4. PLATFORM NAME(S)</p> <p>MESA S</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>BUOY</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <p>U.S. U.S.</p>	<p>7. DATES</p> <p>FROM: MO/DAY/YR TO: MO/DAY/YR</p> <p>6/19/77 8/3/77</p>
<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p>GENERAL AREA</p>	
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>			
<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>Mr. Pat Laird (206) 442 7450</p>			

### 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
SPEED				
U-Direction	CM/SEC	Aanderaa Current Meter	N/A	N/A
V-Direction	CM/SEC	RCM-4	"	"
TEMPERATURE	°C	"	"	"
CONDUCTIVITY	°/oo	"	"	"
PRESSURE	DECIBARS	"	"	"



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

Three (3) record types, text record (1), meter master record (2), and detail record (3), differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST: Donna McCampbell (206) 543 2007  
NAME AND PHONE NUMBER  
ADDRESS Dept. of Oceanography, University of Washington, Seattle, Wa. 98195

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOAA/PMEL PSERP MESA</p> <p>6/19/77 8/3/77</p> <p>File # 3 File id = MESA S</p> <p>7 TRACK, BCD, 800 BPI, EVEN PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3600 bytes</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>6 bits</p>

Vol. Ser. = JR 112 (orig)

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

USER TAPE

[Empty box for listing record types]

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for describing file organization]

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D 752 - NOAA/EDS/NODC - 202 634 7505  
ADDRESS WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><b>005315 (1,SL)</b></p> <p><b>DSN = TR 2994</b></p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><b>480</b></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><b>60</b></p>

*MSB.*

Date: 10/15/75

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM-TO MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA S
Record Type	10	1	"	I1	Always '1'
Meter Number	11	5	"		Analogous to NODC Station Numb
Text	16	38	"	38A1	Additional pertinent informati
Blank	54	1	"	1X	
Sequence Number	55	6	"	I6	Ascending numeric, used for sorting
METER MASTER RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		
Record Type	10	1	"	I1	Always '2'
Meter Number	11	5	"		Analogous to NODC Station Numb
Latitude,					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths of minutes	20	2	"	I2	
Hemisphere	22	1	"	A1	'N' or 'S'
Longitude,					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths of minutes	28	2	"	I2	
Hemisphere	30	1	"	A1	'E' or 'W'
Depth to bottom	31	5	"	I5	Whole meters
Depth of current meter	36	5	"	I5	To tenths of a meter
Meter Usage					Number of times meter has been used.
Sequence Number	41	3	"	I3	
Institution Code	44	2	"	A2	NODC Institution Code
Axis Rotation	46	3	"	I3	In whole degrees clockwise from true north of V axis
Location Name	49	6	"	A6	OCSEP internal location code
Number of detail records	55	6	"	I6	Number of type '3' records

CURRENT METER  
RECORD FORMAT DESCRIPTION

*WJG*  
Date: 10/15/

RECORD NAME DETAIL RECORD (REQUIRED)

14. FIELD NAME	15. POSITION <del>FROM 1</del> MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA S
Record Type	10	1	"	I1	Always '3'
Meter Number	11	5	"		Analogous to NODC Station #
Year	16	2	"	I2	Last two digits of years)
Month	18	2	"	I2	1-12
Day	20	2	"	I2	1-31
Time,					
Hour	22	2	"	I2	0-23
Minute	24	2	"	I2	0-59
Hundredth of minute	26	2	"	I2	0-99
East-West (u) Current Component	28	6	"	I6	To hundredths. Positive (E and North) understood.
North-South (v) Current Component	34	6	"	I6	Negative (West and South) w negative sign.
Temperature	40	5	"	I5	To thousandths. Minus sign negative
Pressure	45	5	"	I5	To tenths
Conductivity	50	5	"	I4	To hundredths
Blank	54	1	"	1X	
Sequence Number	55	5	"	I5	Ascending numeric, used for sorting

### 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 Current Meter RCM-4		X				X			
" same meter	FEB. 77		NOIC	1 yr.					

DATA DOCUMENTATION FORM

TR 2997  
FO15

NOAA FORM 24-13  
(4-77)

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

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
PMEL / NOAA 3711 15 th Avenue N.E. Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
PSERP MESA		File id = MESA W	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
MESA W	BUOY	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR 6/18/77 8/2/77
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.	
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)		GENERAL AREA 	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Mr. Pat Laird (206) 442 7450			

**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
SPEED				
U-Direction	CM/SEC	Aanderaa Current Meter RCM-4	N/A	N/A
V-Direction	CM/SEC	"	"	"
TEMPERATURE	°C	"	"	"
CONDUCTIVITY	‰	"	"	"
PRESSURE	DECIBARS	"	"	"

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

Three (3) record types, text record (1), meter master record (2), and detail record (3), differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST: Donna McCampbell (206) 543 2007  
NAME AND PHONE NUMBER  
ADDRESS Dept. of Oceanography, University of Washington, Seattle, Wa. 98195

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOAA/PMEL P SERP MESA</p> <p>6/18/77</p> <p>8/2/77</p> <p>File # 4 File id = MESA W</p> <p>7 TRACK, BCD, 800 BPI, EVEN PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3600 bytes</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>6 bits</p>

Vol. Ser. = JR 112 (orig)



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

USER TAPE

[Empty box for listing record types]

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for describing file organization]

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D 752-NOAA/EDS/NODC--202 6347505  
ADDRESS WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><u>005315 (65L)</u></p> <p><u>DSN=TR2994</u></p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><u>4800</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><u>60</u></p>

CURRENT METER  
RECORD FORMAT DESCRIPTION

*MSB.*

Date: 10/15/75

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM-1- MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identification	4	6	"		MESA W
Record Type	10	1	"	I1	Always '1'
Meter Number	11	5	"		Analogous to NODC Station Number
Text	16	38	"	38A1	Additional pertinent information
Blank	54	1	"	1X	
Sequence Number	55	6	"	I6	Ascending numeric, used for sorting
<b>METER MASTER RECORD (REQUIRED)</b>					
File Type	1	3	Bytes	A3	Always '015'
File Identification	4	6	"		
Record Type	10	1	"	I1	Always '2'
Meter Number	11	5	"		Analogous to NODC Station Number
Latitude,					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths of minutes	20	2	"	I2	
Hemisphere	22	1	"	A1	'N' or 'S'
Longitude,					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths of minutes	28	2	"	I2	
Hemisphere	30	1	"	A1	'E' or 'W'
Depth to bottom	31	5	"	I5	Whole meters
Depth of current meter	36	5	"	I5	To tenths of a meter
Meter Usage					Number of times meter has been used.
Sequence Number	41	3	"	I3	
Institution Code	44	2	"	A2	NODC Institution Code
Axis Rotation	46	3	"	I3	In whole degrees clockwise from true north of V axis
Location Name	49	6	"	A6	OCSEP internal location code
Number of detail records	55	6	"	I6	Number of type '3' records

CURRENT METER  
RECORD FORMAT DESCRIPTION

*M. J.*  
Date: 10/15/

RECORD NAME DETAIL RECORD (REQUIRED)

14. FIELD NAME	15. POSITION <del>FROM 1-</del> MEASURED IN Bytes <small>(i.e., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '015'
File Identifica- tion	4	6	"		MESA W
Record Type	10	1	"	I1	Always '3'
Meter Number	11	5	"		Analogous to NODC Station I
Year	16	2	"	I2	Last two digits of years)
Month	18	2	"	I2	1-12
Day	20	2	"	I2	1-31
Time,					
Hour	22	2	"	I2	0-23
Minute	24	2	"	I2	0-59
Hundredth of minute	26	2	"	I2	0-99
East-West (u) Current Component	28	6	"	I6	To hundredths. Positive (E and North) understood.
North-South (v) Current Component	34	6	"	I6	Negative (West and South) v. negative sign.
Temperature	40	5	"	I5	To thousandths. Minus sign negative
Pressure	45	5	"	I5	To tenths
Conductivity	50	5	"	I4	To hundredths
Blank	54	1	"	IX	
Sequence Number	55	5	"	I5	Ascending numeric, used for sorting

### 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 Current Meter RCM-4		X				X			
" same meter	MAY 77		NOIC	1 yr.					



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
 ENVIRONMENTAL RESEARCH LABORATORIES  
 Pacific Marine Environmental Laboratory  
 NOAA Building Number 264  
 7600 Sand Point Way NE  
 Seattle, WA 98115

DATE: April 18, 1978  
 TO: NODC Attn: Dr. James Ridlon (D781)  
 FROM: N.P. Laird *NPL*  
 SUBJECT: Transmittal of Current Meter Data

Under separate cover we are sending one (1) magnetic tape, and data documentation forms for four (4) current meter stations for the PSERP MESA project. The four files on the magnetic tape are as follows:

<u>File No.</u>	<u>File I.D.</u>	<u>Time Period</u>	<u>Depth in Meters</u>
<u>TR 2994</u> 1	MESA N	June 19, 1977 to August 3, 1977	15
	"	"	30 *
	"	"	80
	"	"	161
<u>TR 2995</u> 2	MESA E	June 20, 1977 to August 4, 1977	27
	"	"	77
	"	"	157
	* {	Time base error unresolved, 100 too few records	12
		Record too short	47
Meter failed	117		
<u>TR 2996</u> 3	MESA S	June 19, 1977 to August 3, 1977	13
	"	"	14
	"	"	29
	"	"	79
	"	"	159 **
<u>TR 2997</u> 4	MESA W	June 18, 1977 to August 2, 1977	14
	"	"	29
	"	"	49
	"	"	79
	"	"	119 ***
	"	"	159
			237

\* MESA W mooring dragged to 3m deeper water 28 June.

*L→(over)→*



RECEIVED 24 APR 1978



Page 2  
NODC  
April 18, 1978

- \* Speed failed after 11 days on 1 July
- \*\* Some conductivity spikes remain
- \*\*\* Temperature noisy starting 16 July

Encls: 1 (One) magnetic tape  
1 (One) DDF (and documentation)

cc: R. Charnell  
G. Cannon



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
ENVIRONMENTAL DATA SERVICE  
Washington, D.C. 20235  
National Oceanographic Data Center

Date :  
To : D781  
From : D752 *FR 11*  
Subject : Error Correction in Processing of  
Data Set - Accession # 78-0337

- 1) File Type: # 015
- 2) Project Ident.: Puget Sound/PSERP
- 3) Track Nos.: TR 2994-7

I. Error corrections as reported to Principal Investigator:

*Please note that there are 235 blank records.*

II. Additional error corrections:

*1. deleted (55550) in columns (~~45-49~~)*

III. Processor name: \_\_\_\_\_



1. THIS NUMBER OF ORIGINALS	/	/	JR 112 (four files)
2. COPY (DIFF.) TO SOURCE TAPES / TAPE	/	/	13338 (four files) (four checks)
3. REFORMATTED TAPE ( IF REQUIRED )	/	/	
4. USER TAPE GENERATION	/	6/13 GRAY	<del>13338</del> 005315
5. CHECK RUN (ERRORS)	/	6/11 GRAY	013338
5. CHECK RUN (OK)	/	6/17 GRAY	005315 DSN = TR 2994
6. CRUNCH TAPE FROM "USER"	/	/	/
7. EVALUATION OF ORIGINATOR DCF	/	MA 6/20	
8. NAPIS COUNT PROGRAM RUN	/	6/7 GRAY	
9. DIP INVENTORY PROGRAM RUN	/	7/18 CES	
10. THIS NUMBER OF ORIGINALS	/	/	



47

015-3

#Z 000577

ANSE 013804

10328

7435 (C 4042)

60/4800, FOIS

#1 UØ2Ø422

TR 2087-2091, 2790-2804, 2955-2963, 2994-2997,  
2999, 3081-3085, 3088-3095

545,088

accession no: 78-0337  
Page 8 Serial/PSERP

MSDCHEK \*\*\* NCN-STANDARD DATA FIELD CHECKING PROGRAM  
 THIS IS 03/15/78 VERSION WITH NUMERIC RANGE CHECKING

USER'S INPUT REQUESTS FOLLOW:

LRECL HAS BEEN SPECIFIED AS 60  
 STATION HEADER RECORD SPECIFIED AS 2  
 RECORD TYPES FLAGGED FOR RETRIEVAL ARE - 123  
 STATION STARTS IN POSITION 11 FOR 5 BYTES  
 STATION WILL APPEAR ON RECORD TYPES : 123  
 RECORD TYPE WILL BE TAKEN FROM COLUMN 10 OF THE INPUT RECORDS  
 FILETYPE IS 015

NO OBVIOUS ERRORS FOUND IN TABLE GENERATION PHASE - SUCCESSFUL EXECUTION EXPECTED

\*\*\*\*\*  
 015TR299421820 48224 N124 54 W 165 150 3F OMESA N 3298  
 ??????

FIRST FILE ID

THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED		ACTUAL RANGE		MEAN	S. DEV	COUNT
					LOW	HIGH	LOWEST	HIGHEST			
M	3	16	2	OBS DATE YR	74	77	77	77	77.00	00	12905
M	3	18	2	OBS DATE MO	01	12	6	8	6.81	61	12905
M	3	20	2	OBS DATE DAY	01	31	1	31	17.32	9.41	12905
M	3	22	2	OBS DATE HR	00	23	0	23	11.45	6.92	12905
M	3	24	2	OBS DATE MIN	00	59	7	48	27.24	16.34	12905
N	3	26	2	OBS DATE 1/100 MIN	00	99	NO VALUES FOUND FOR THIS PARAMETER				
M	3	28	5	E-W (U) COMPONENT	-4000	20000	-1337	1125	32.96	367.87	12905
M	3	34	5	N-S (V) COMPONENT	-4000	20000	-815	758	13.87	166.22	12905
N	3	40	4	TEMPERATURE TO 1/100	-200	2000	0	1039	612.71	375.43	12905
N	3	45	5	PRESSURE DB TO 1/10	00100	11950	123	1669	781.98	612.49	12905
N	3	50	4	CONDUCTIVITY	0000	3700	3144	3543	3406.82	41.16	12905

RECORDS READ : 12909

\*\*\*\*\*  
 015TR299522495 48148 N123440 W 169 1570 3F OMESA E 3177  
 ??????

FILE ID HAS CHANGED

THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERIC/M=MANDATORY NUMERIC

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED		ACTUAL RANGE		MEAN	S. DEV	COUNT
					LOW	HIGH	LOWEST	HIGHEST			
M	3	16	2	OBS DATE YR	74	77	77	77	77.00	00	9532
M	3	18	2	OBS DATE MO	01	12	6	8	6.83	63	9532
M	3	20	2	OBS DATE DAY	01	31	1	31	17.20	9.52	9532
M	3	22	2	OBS DATE HR	00	23	0	23	11.52	6.93	9532
M	3	24	2	OBS DATE MIN	00	59	2	46	24.00	16.41	9532
N	3	26	2	OBS DATE 1/100 MIN	00	99	NO VALUES FOUND FOR THIS PARAMETER				
M	3	28	5	E-W (U) COMPONENT	-4000	20000	-1408	1422	11.03	527.50	9532
M	3	34	5	N-S (V) COMPONENT	-4000	20000	-754	940	27.05	227.60	9532
N	3	40	4	TEMPERATURE TO 1/100	-200	2000	607	1011	732.41	102.39	9532
N	3	45	5	PRESSURE DB TO 1/10	00100	11950	292	916	557.01	209.62	9532
N	3	50	4	CONDUCTIVITY	0000	3700	2751	3491	3384.49	49.82	9532

RECORDS READ : 9535

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800337	F015	TT1465	0082	3114	317F	1977/06/20	MESA N	306866
7800337	F015	TT1466	0082	3114	317F	1977/06/20	MESA N	306867
7800337	F015	TT1467	0082	3114	317F	1977/06/20	MESA N	306868
7800337	F015	TT1468	0082	3114	317F	1977/06/20	MESA N	306869
7800337	F015	TT1469	0082	3114	317F	1977/06/20	MESA E	306870
7800337	F015	TT1470	0082	3114	317F	1977/06/20	MESA E	306871
7800337	F015	TT1471	0082	3114	317F	1977/06/20	MESA E	306872
7800337	F015	TT1472	0082	3114	317F	1977/06/19	MESA S	306873
7800337	F015	TT1473	0082	3114	317F	1977/06/19	MESA S	306874
7800337	F015	TT1474	0082	3114	317F	1977/06/19	MESA S	306875
7800337	F015	TT1475	0082	3114	317F	1977/06/19	MESA S	306876
7800337	F015	TT1476	0082	3114	317F	1977/06/19	MESA S	306877
7800337	F015	TT1477	0082	3114	317F	1977/06/19	MESA W	306878
7800337	F015	TT1478	0082	3114	317F	1977/06/19	MESA W	306879
7800337	F015	TT1479	0082	3114	317F	1977/06/18	MESA W	306880
7800337	F015	TT1480	0082	3114	317F	1977/06/17	MESA W	306881
7800337	F015	TT1481	0082	3114	317F	1977/06/18	MESA W	306882
7800337	F015	TT1482	0082	3114	317F	1977/06/18	MESA W	306883
7800337	F015	TT1483	0082	3114	317F	1977/06/18	MESA W	306884

(19 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7800337	F015	TT1465	317F	12	3227	77/06/20	77/08/01
7800337	F015	TT1466	317F	12	3227	77/06/20	77/08/01
7800337	F015	TT1467	317F	12	3227	77/06/20	77/08/01
7800337	F015	TT1468	317F	12	3228	77/06/20	77/08/01
7800337	F015	TT1469	317F	9	3178	77/06/20	77/08/01
7800337	F015	TT1470	317F	9	3178	77/06/20	77/08/01
7800337	F015	TT1471	317F	9	3179	77/06/20	77/08/01
7800337	F015	TT1472	317F	15	6446	77/06/19	77/08/01
7800337	F015	TT1473	317F	15	3222	77/06/19	77/08/01
7800337	F015	TT1474	317F	15	3222	77/06/19	77/08/01
7800337	F015	TT1475	317F	15	3222	77/06/19	77/08/01
7800337	F015	TT1476	317F	15	3222	77/06/19	77/08/01
7800337	F015	TT1477	317F	21	3229	77/06/19	77/08/01
7800337	F015	TT1478	317F	21	3229	77/06/19	77/08/01
7800337	F015	TT1479	317F	21	3229	77/06/18	77/08/01
7800337	F015	TT1480	317F	21	3229	77/06/17	77/08/01
7800337	F015	TT1481	317F	21	3231	77/06/18	77/08/01
7800337	F015	TT1482	317F	21	3230	77/06/18	77/08/01
7800337	F015	TT1483	317F	21	3230	77/06/18	77/08/01

(19 rows affected)