

DATA DOCUMENTATION FORM

TR3489

DDF 0:2:11

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20882

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

F021

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

78-018

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			
Pacific Marine Environmental Laboratory 3711 15th Ave. N.E. Seattle, WA 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Deep Ocean Mining Environmental Studies (DOMES)		750823 (File ID) 760211	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
OCEANOGRAPHER	SHIP	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		US US	8/22/75 10/14/75
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)		Eastern Tropical Pacific GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Dr. Edward T. Baker 442-5436 (Commercial) 399-5436 (FTS)			

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

RECORD TYPE 1 - 1	IN COL. 10
RECORD TYPE 2 - 2	IN COL. 10
RECORD TYPE 5 - 5	IN COL. 10
RECORD TYPE 4 - 4	IN COL. 10
RECORD TYPE A - A	IN COL. 10
RECORD TYPE B - B	IN COL. 10
RECORD TYPE C - C	IN COL. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE IS COMPOSED OF DATA FROM 1 CRUISE. RECORD TYPE 1 IS A CRUISE AND STATION NUMBER HEADER CARD; RECORD TYPE 2 IS A STATION NUMBER AND CAST IDENTIFIER CARD; RECORD TYPE 5 IS A DATA LISTING CARD; RECORD TYPE 4 IS A CONTINUATION OF RECORD TYPE 5; RECORD TYPE A IS A DATA LISTING CARD; RECORD TYPES B AND C ARE A CONTINUATION OF RECORD TYPE A.

3. ATTRIBUTES AS EXPRESSED IN

PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER MR. KENNETH MUTH, DOMES PROJECT,
 ADDRESS BLDG 264, 7600 SAND POINT WAY NE, SEATTLE, WA.
(206-442-1964)

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____	
6. NUMBER OF TRACKS (CHANNELS) <input checked="" type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____	
7. PARITY <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) E.T. BAKER, SPM DATA (DOMES) 8/22/75 TO 10/14/75 7 TRACK, BCD, 800 BPI, EVEN PARITY 80 CHAR/REC., 50 REC./BLOCK	
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____		12. PHYSICAL BLOCK LENGTH IN BYTES 4000
		13. LENGTH OF BYTES IN BITS 6

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.

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
Nephels	kHz to hundredths	See attached sheet	N/A	N/A
Total Suspended Matter (TSM)	µg/l (micrograms per liter)	See attached sheet	See attached sheet	N/A
Particulate Major and Minor elements Al ₂ O ₃ , SiO ₂ , K ₂ O, TiO ₂ , Mn, and Fe	Al ₂ O ₃ - Wt% SiO ₂ - Wt% K ₂ O - Wt% TiO ₂ - Wt% Mn - ppm Fe - Wt%	See attached sheet	See attached sheet	See attached sheet
Particle Size	Microns (cumulative percent to tenths)	See attached	See attached sheet	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Station/Sample Header)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bit, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '021'
File Identifier	4	6	Bytes	A6	'YMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '1'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Latitude,					
Degrees	19	2	Bytes	I2	
Minutes	21	2	Bytes	I2	
Seconds	23	2	Bytes	I2	
Hemisphere	25	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	26	3	Bytes	I3	
Minutes	29	2	Bytes	I2	
Seconds	31	2	Bytes	I2	
Hemisphere	33	1	Bytes	A1	'E' or 'W'
Sample Collection					
Date-Time					
Year	34	2	Bytes	I2	00 to 99 G.M.T.
Month	36	2	Bytes	I2	01 to 12 "
Day	38	2	Bytes	I2	01 to 31 "
Hour	40	2	Bytes	I2	00 to 23 "
Minutes	42	2	Bytes	I2	00 to 59 "
Depth to Bottom	44	5	Bytes	I5	Whole meters
Sphere Code	49	1	Bytes	A1	
Blank	50	31	Bytes	31X	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data II)

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 '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '4'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	I4	
Titanium Dioxide (TiO ₂)	28	5	Bytes	I5	% by weight to thousandths
Trace Code	33	1	Bytes	A1	*
Total Manganese	41	5	Bytes	I5	Parts per million by weight to tenths
Trace Code	46	1	Bytes	A1	*
Total Iron	47	5	Bytes	I5	% by weight to thousandths
Trace Code	52	1	Bytes	A1	*
Blank	77	4	Bytes	4X	

* Trace code - to be used when no concentrations recorded

- ' ' = no information
- '1' = trace found but too small to measure
- '2' = measurement beyond limits of instrumentation

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data III)

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	A1	Always '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '5'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	I4	
Nephels	28	5	Bytes	I5	kHz to hundredths
Total Suspended Matter (TSM)	33	6	Bytes	I6	Micrograms per liter
Aluminum Trioxide (Al ₂ O ₃)	57	5	Bytes	I5	% by weight to thousandths
Trace Code	62	1	Bytes	A1	*
Silicone Dioxide (SiO ₂)	63	5	Bytes	I5	% by weight to thousandths
Trace Code	68	1	Bytes	A1	*
Potassium Oxide (K ₂ O)	69	5	Bytes	I5	% by weight to thousandths
Trace Code	74	1	Bytes	A1	*

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Particle Size Record 1)

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 '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always 'A'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	A4	Originator's internal number
Coccoliths	28	3	Bytes	I3	Percent to tenths
Diatoms	31	3	Bytes	I3	Percent to tenths
Aggregates	34	3	Bytes	I3	Percent to tenths
Mineral Grains and Fragments	37	3	Bytes	I3	Percent to tenths
Particles Sizes					All particle size units are cumulative percent to tenths
< 1.29 μ	40	3	Bytes	I3	Cumulative percent to tenths
< 1.38 μ	43	3	Bytes	I3	
< 1.47 μ	46	3	Bytes	I3	
< 1.57 μ	49	3	Bytes	I3	
< 1.68 μ	52	3	Bytes	I3	
< 1.79 μ	55	3	Bytes	I3	
< 1.91 μ	58	3	Bytes	I3	
< 2.04 μ	61	3	Bytes	I3	
< 2.18 μ	64	3	Bytes	I3	
< 2.33 μ	67	3	Bytes	I3	
< 2.48 μ	70	3	Bytes	I3	
< 2.65 μ	73	3	Bytes	I3	
< 2.83 μ	76	3	Bytes	I3	
Blank	79	2	Bytes	2x	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Particle Size Record 2)

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 '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always 'B'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	A4	Originator's internal number
Particle Sizes					Cumulative percent to tenths
< 3.02 μ	28	3	Bytes	I3	Cumulative percent to tenths
< 3.22 μ	31	3	Bytes	I3	
< 3.44 μ	34	3	Bytes	I3	
< 3.67 μ	37	3	Bytes	I3	
< 3.92 μ	40	3	Bytes	I3	
< 4.18 μ	43	3	Bytes	I3	
< 4.46 μ	46	3	Bytes	I3	
< 4.77 μ	49	3	Bytes	I3	
< 5.09 μ	52	3	Bytes	I3	
< 5.43 μ	55	3	Bytes	I3	
< 5.80 μ	58	3	Bytes	I3	
< 6.19 μ	61	3	Bytes	I3	
< 6.60 μ	64	3	Bytes	I3	
< 7.05 μ	67	3	Bytes	I3	
< 7.52 μ	70	3	Bytes	I3	
< 8.03 μ	73	3	Bytes	I3	
< 8.57 μ	76	3	Bytes	I3	
Blank	79	2	Bytes	2x	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Particle Size Record 3)

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 '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always 'C'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	A4	Originator's internal number
Particle Sizes					Cumulative percent to tenths
< 9.15 μ	28	3	Bytes	I3	Cumulative percent to tenths
< 9.76 μ	31	3	Bytes	I3	
< 10.42 μ					
< 11.12 μ	37	3	Bytes	I3	
< 11.87 μ	40	3	Bytes	I3	
< 12.67 μ	43	3	Bytes	I3	
< 13.53 μ	46	3	Bytes	I3	
< 14.44 μ	49	3	Bytes	I3	
< 15.41 μ	52	3	Bytes	I3	
< 16.45 μ	55	3	Bytes	I3	
< 17.56 μ	58	3	Bytes	I3	
< 18.74 μ	61	3	Bytes	I3	
< 20.00 μ	64	3	Bytes	I3	
< 21.35 μ	67	3	Bytes	I3	
< 22.79 μ	70	3	Bytes	I3	
< 24.32 μ	73	3	Bytes	I3	
< 25.96 μ	76	3	Bytes	I3	
Blank	79	2	Bytes	2x	

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 (✓)	
PMEL Analog Nephelometer	See attached sheet								

SAMPLING METHODS

Water samples were collected in 30 liter Niskin bottles and filtered under vacuum, through preweighed 0.4 μm Nuclepore filters. The filters were removed from the filtration apparatus, placed into individually marked petri dishes, dried in a desiccator for 24 hours and stored for shipment to the laboratory.

The vertical distribution of suspended matter was determined with a continuously recording integrating nephelometer. The instrument was • interfaced with Plessey CTD system using the sound velocity channel (14-16 kHz) such that real time measurements of forward light scattering were obtained at each station.

ANALYTICAL METHODS

The major and trace inorganic elements in the suspended matter are determined by secondary emission x-ray fluorescence spectrometry. Radiation from a silver x-ray tube is used to obtain a monochromatic source of x-rays from a secondary target. USGS standard rocks and NBS glass standards are used for calibration of the individual elements.

The total suspended matter is determined by reweighing the preweighed Nuclepore filters on a Cahn 4700 electrobalance.

Particle size is determined by taking Polaroid photographs of particles on 47 mm Nuclepore filters using an I.S.I. Super Mini - SEM. Using a Carl Zeiss TGZ 3 particle size counter, particles on the photographs were sized and counted manually.

DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING

The concentration of each element was calculated from the corrected peak areas and compared to peak areas from standards prepared in the same manner as the samples.

Accuracy

The accuracy of the NBS standards are quoted to be in the range from 0.5-20.0%.

Precision

The total precision for each element, based on replicate sample analysis, is estimated to be:

<u>Element</u>	<u>Coefficient of Variation</u>
Aluminum	9.8
Silicon	9.6
Potassium	10.3
Titanium	9.3
Manganese	9.4
Iron	9.9

DATA DOCUMENTATION FORM

TR3490

DDF B:2:11

NOAA FORM 24-13 (4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20238

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

F021

(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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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Pacific Marine Environmental Laboratory 3711 15th Ave. N.E. Seattle, WA 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Deep Ocean Mining Environmental Studies (DOMES)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 760211 (File ID) 750823	
4. PLATFORM NAME(S) OCEANOGRAPHER	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) US	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 2/11/76 4/16/76
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. Eastern Tropical Pacific 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) Dr. Edward T. Baker 442-5436 (Commercial) 399-5436 (FTS)			

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
Nephels	kHz to hundredths	See attached sheet	N/A	N/A
Total Suspended Matter (TSM)	ug/l (micrograms per liter)	See attached sheet	See attached sheet	N/A
Particulate Major and minor elements Al ₂ O ₃ , SiO ₂ , K ₂ O, TiO ₂ , Mn, and Fe	Al ₂ O ₃ - Wt% SiO ₂ - Wt% K ₂ O - Wt% TiO ₂ - Wt% Mn - ppm Fe - Wt%	See attached sheet	See attached sheet	See attached sheet

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

RECORD TYPE 1 - 1 IN COL. 10
RECORD TYPE 2 - 2 IN COL. 10
RECORD TYPE 5 - 5 IN COL. 10
RECORD TYPE 4 - 4 IN COL. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE IS COMPOSED OF DATA FROM 1 CRUISE (TWO LEGS)
RECORD TYPE 1 IS A CRUISE AND STATION DESCRIPTION
HEADER CARD; RECORD TYPE 2 IS A STATION NUMBER AND
CAST IDENTIFIER CARD; RECORD TYPE 5 IS A DATA LISTING
CARD; RECORD TYPE 4 IS A CONTINUATION OF RECORD TYPE 5.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER MR. KENNETH MUTH DOMES PROJECT
ADDRESS BLDG 264, 7600 SAND POINT WAY N.E., SEATTLE WA. 98115
(206-442-1964)

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 <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><u>E.T. BAKER SPM DATA (DOMES)</u> <u>2/11/76 TO 4/16/76</u> <u>7 TRACK BCD, 800 BPI, EVEN PARITY</u> <u>80 CHAR/REC, 50 REC/BLOCK</u></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><u>4000</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><u>8</u></p>

C. DATA FORMAT

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- 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.
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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.

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Station/Sample Header)

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		NUMBER	UNITS		
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File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '1'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Latitude,					
Degrees	19	2	Bytes	I2	
Minutes	21	2	Bytes	I2	
Seconds	23	2	Bytes	I2	
Hemisphere	25	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	26	3	Bytes	I3	
Minutes	29	2	Bytes	I2	
Seconds	31	2	Bytes	I2	
Hemisphere	33	1	Bytes	A1	'E' or 'W'
Sample Collection					
Date-Time					
Year	34	2	Bytes	I2	00 to 99 G.M.T.
Month	36	2	Bytes	I2	01 to 12 "
Day	38	2	Bytes	I2	01 to 31 "
Hour	40	2	Bytes	I2	00 to 23 "
Minutes	42	2	Bytes	I2	00 to 59 "
Depth to Bottom	44	5	Bytes	I5	Whole meters
Sphere Code	49	1	Bytes	A1	
Blank	50	31	Bytes	31X	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data II)

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 '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '4'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	I4	
Titanium Dioxide (TiO ₂)	28	5	Bytes	I5	% by weight to thousandths
Trace Code	33	1	Bytes	A1	*
Total Manganese	41	5	Bytes	I5	Parts per million by weight to tenths
Trace Code	46	1	Bytes	A1	*
Total Iron	47	5	Bytes	I5	% by weight to thousandths
Trace Code	52	1	Bytes	A1	*
Blank	77	4	Bytes	4X	

* Trace code - to be used when no concentrations recorded

- ' ' = no information
- '1' = trace found but too small to measure
- '2' = measurement beyond limits of instrumentation

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data III)

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	A1	Always '021'
File Identifier	4	6	Bytes	A6	'YYMMDD' = date of file creation or unique cruise number
Record Type	10	1	Bytes	A1	Always '5'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Sample Depth	19	4	Bytes	I4	Whole meters
Replicate Number	23	1	Bytes	I1	
Lab Sample Number	24	4	Bytes	I4	
Nephels	28	5	Bytes	I5	kHz to hundredths
Total Suspended Matter (TSM)	33	6	Bytes	I6	Micrograms per liter
Aluminum Trioxide (Al ₂ O ₃)	57	5	Bytes	I5	% by weight to thousandths
Trace Code	62	1	Bytes	A1	*
Silicone Dioxide (SiO ₂)	63	5	Bytes	I5	% by weight to thousandths
Trace Code	68	1	Bytes	A1	*
Potassium Oxide (K ₂ O)	69	5	Bytes	I5	% by weight to thousandths
Trace Code	74	1	Bytes	A1	*

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 (✓)	
PMEL Analog Nephelometer	See attached sheet								

ANALYTICAL METHODS

The major and trace inorganic elements in the suspended matter are determined by secondary emission x-ray fluorescence spectrometry. Radiation from a silver x-ray tube is used to obtain a monochromatic source of x-rays from a secondary target. USGS standard rocks and NBS glass standards are used for calibration of the individual elements.

The total suspended matter is determined by reweighing the pre-weighed Nuclepore filters on a Cahn 4700 electrobalance.

SAMPLING METHODS

Water samples were collected in 30 liter Niskin bottles and filtered under vacuum, through preweighed 0.4 μm Nuclepore filters. The filters were removed from the filtration apparatus, placed into individually marked petri dishes, dried in a desiccator for 24 hours and stored for shipment to the laboratory.

The vertical distribution of suspended matter was determined with a continuously recording integrating nephelometer. The instrument was interfaced with Plessey CTD system using the sound velocity channel (14-16 kHz) such that real time measurements of forward light scattering were obtained at each station.

DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING

The concentration of each element was calculated from the corrected peak areas and compared to peak areas from standards prepared in the same manner as the samples.

Accuracy

The accuracy of the NBS standards are quoted to be in the range from 0.5-20.0%.

Precision

The total precision for each element, based on replicate sample analysis, is estimated to be:

<u>Element</u>	<u>Coefficient of Variation</u>
Aluminum	9.8
Silicon	9.6
Potassium	10.3
Titanium	9.3
Manganese	9.4
Iron	9.9

DDF-B:2:11

DATA DOCUMENTATION FORM

TR3491

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

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

F015

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

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>Dr. Stanley Hayes Pacific Marine Environmental Laboratory (PMEL/ERL/NOAA) 3711 - 15th Avenue N. E. Seattle, WA 98105 (Telephone 206-442-4598)</p>											
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>EBW-3</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>FILE ID NS0698 EBW-3 CURRENT METEC DATA</p>									
<p>4. PLATFORM NAME(S)</p> <p>EBW-3</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>NOAA Ship</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <table border="1"> <thead> <tr> <th>PLATFORM</th> <th>OPERATOR</th> <th>FROM: MO, DAY, YR</th> <th>TO: MO, DAY, YR</th> </tr> </thead> <tbody> <tr> <td>U.S.</td> <td>U.S.</td> <td>7/4/77</td> <td>12/8/77</td> </tr> </tbody> </table>	PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR	U.S.	U.S.	7/4/77	12/8/77	<p>7. DATES</p>
PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR								
U.S.	U.S.	7/4/77	12/8/77								
<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>Dr. Stanley Hayes (206) 442-4598</p>									

Note:

All records not accepted
by QMADI program appear
to be record type #3

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
TIME/DATE	GMT	CRYSTAL CLOCK	N/A	N/A
CURRENT VELOCITY	CM/SEC		PROCESSED AT PMEL. TRANSFERRED TO 7-TRACK TAPE. CALIBRATIONS APPLIED. DATA EDITED AND BAD VALUES REPLACED BY LINEAR INTERPOLATION.	REPORTED VALUES REPRESENT AVERAGES
TEMPERATURE	DEGREES, C	THERMISTORS ON AMF CURRENT METERS	SAME AS CURRENT VELOCITY	AVERAGE VALUES

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
 GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

DONES Program CURRENT METER FORMAT

There are three record types: (1) Data Header I (optional)
 (2) Data Header II (required)
 (3) Data Record (required)

There is no File Header record type for this format.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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

RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Nancy Soreide (206-543-5276)
 ADDRESS PMEL/NOAA 3711 - 15th Ave. NE, Seattle, WA 98105

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>4. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> DECIMAL</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p>
<p>5. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> OTHER</p>	<p>10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17</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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>EBW -3 CURRENT METER DATA TAPE FILE ID NS0698 7-TRACK, BCD, EVEN PARITY, 800BPI ORIGINATOR - DR. S. HAYES</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 555 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES <u>3600</u></p> <p>13. LENGTH OF BYTES IN BITS <u>"015"</u></p> <p>Page 1</p>

Vol. Ser. = DOME (orig.)
 Vol. Ser. = 14228 (o/c)

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
METHOD OF IDENTIFYING EACH RECORD TYPE

USER TAPE

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

CONTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

D 752-NOAA/EDIS/NODC-202-6347505
WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<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)</p> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <input checked="" 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>003375 (15L NO PAPER READ)</p> <p>DSN = TR 3491</p>
<p>8. DENSITY</p> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>13. LENGTH OF BYTES IN BITS</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Data Header II (required)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (i.e., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always "015"
File Identification	4	6	"	A6	
Record Type	10	1	"	I1	Always "2"
Meter number	11	5	"	A5	
Latitude					
Degrees	16	2	"	I2	
Minutes	18	2	"	I2	
Hundredths	20	2	"	I2	Hundredths of minutes
Hemisphere	22	1	"	A1	"N" or "S"
Longitude					
Degrees	23	3	"	I3	
Minutes	26	2	"	I2	
Hundredths	28	2	"	I2	
Hemisphere	30	1	"	A1	"E" or "W"
Depth to bottom	31	5	"	I5	To whole meters
Depth of meter	36	5	"	I5	To tenths of meter
Meter Usage Sequence Number	41	3	"	I3	Number of times meter has been deployed (by investigator)
Institution code	44	2	"	A2	NODC Institution Code
Axis Rotation	45	3	"	I3	In whole degrees clockwise from true north of positive V axis
Location Name	49	6	"	A6	Not used by DOMES
Number of data records	55	6	"	I6	Number of record type "3" records

DOMES Program
Current Meter Format
"015"
page 3

RECORD FORMAT DESCRIPTION

RECORD NAME Data Header I (Optional)

14. FIELD NAME	15. POSITION FROM -1 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 Identification	4	6	"	A6	
Record Type	10	1	"	I1	Always "1"
Meter Number	11	5	"	A5	
Text	16	38	"	38A1	Descriptive information
Blank	54	1	"	1X	
Sequence number	55	6	"	I6	ascending numeric used for ordering data header records upon retrieval

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 (✓)	
THERMISTOR YSI 44032 ON V238	MAY 76		NWRCC		✓				
V240	JUN 76		"		✓				
V242	MAR 76		"		✓				

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: MESA Data Coordinator
NOAA/EDIS/NODC
Washington, D.C. 20235

REFER TO

ATTENTION
Dr. James B. Ridlon

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

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

(cert. no. 523053)

Enclosed, find magnetic tapes (2) and associated documentation for:

a) E.T. Baker/PMEL - SPM data, FT 021, for DOMES cruises RP - 8 - OC - 75, and RP - 8 - OC - 76 (legs 1 & 2), file I.D.'s 750823 and 760211 respectively. 1 tape.

b) S. Hayes/PMEL - FT 015, DOMES EBW - 3, file I.D. NS0698, field period 7/4/77, to 12/8/77. 1 tape.

RECEIVED 02 OCT 1978

FORWARDED BY <i>Sid Stillwaugh</i> Sid Stillwaugh	TITLE Seattle L.O.	DATE FORWARDED 9/26/78
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

FILE NO. DATE TIME ATTEMPTED NO. DAY BY CENTRAL NO. DAY BY TAPE # / FILE #

1 LOGS NUMBER ON ORIGINATOR TAP | / : | / : | ✓ | DOME4/

2 COPY (DITTE) TO BACKUP TAPE QUADRE | / : | / : | 14228/

3 REFORMATTED TAPE (- IF REQUIRED) | / : | / : | / : | / : |

4 USER TAPE GENERATION | 11 / 21 : EA | 11 / 21 : EA | 003375(SL) DS/1-TR 3491

5 CHECK RUN (ERRORS) | 10 / 24 : EA | 10 / 24 : EA | 14288 BIKsize 4800, LRECL 060

5 CHECK RUN (OK) | 11 / 21 : EA | 11 / 21 : EA | 003375(SL) BIKsize 4800, LRECL 060

6 CRUNCH TAPE FROM "USER" | / : | / : | / : | / : |

7 EVALUATION OF ORIGINATOR DCP | / : | / : | / : | / : |

8 NAFIS COUNT PROGRAM RUN | 11 / 21 : EA | 11 / 21 : EA

9 DIP INVENTORY PROGRAM RUN | / : | 12 / 78 : MRL

10 ALL INFO INFO | / : | / : | / : | / : |

*			49
	015-4		
#2 013842		ANCI 013377	
2740	6774	(c 4045)	
60/4800, FOIS		#1 UØ2Ø656	
TR 3263-3267, 3324-3327, 3329, 3469-3473,			
3491, 3595-3603, 3968-3991			
			358, 930
			328, 319

accession no: 78-0741
 MESA DOWNS

NSDCHEK *** NON-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 - 1234
STATION STARTS IN POSITION 11 FOR 5 BYTES
STATION WILL APPEAR ON RECORD TYPES : 1234
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

015TR34912V 23814383 N125293 W 45064456 3F 0 3768
?????

FIRST FILE ID

??
DATA BELOW RANGE IN LATDEG

??
ILLEGAL BLANKS IN LATMIN 1/100

??
ILLEGAL BLANKS IN LONMIN 1/100

?????
ILLEGAL BLANKS IN DEPTH OF METER

015TR34912V 24014383 N125293 W 45064476 3F 0 3768
??

??
DATA BELOW RANGE IN LATDEG

??
ILLEGAL BLANKS IN LATMIN 1/100

??
ILLEGAL BLANKS IN LONMIN 1/100

?????
ILLEGAL BLANKS IN DEPTH OF METER

015TR34912V 24214383 N125293 W 45064500 3F 0 3768
??

??
DATA BELOW RANGE IN LATDEG

??
ILLEGAL BLANKS IN LATMIN 1/100

??
ILLEGAL BLANKS IN LONMIN 1/100

?????
ILLEGAL BLANKS IN DEPTH OF METER

015TR34912V214T14383 N125293 W 45064306 3F 0 3768
??

??
DATA BELOW RANGE IN LATDEG

??
ILLEGAL BLANKS IN LATMIN 1/100

??
ILLEGAL BLANKS IN LONMIN 1/100

?????
ILLEGAL BLANKS IN DEPTH OF METER

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	2	16	2	LATDEG	30	80	14	14	14.00	00	4

M	2	18	2	LATMIN	00	59	38	38	38.00	.00	.4
N	2	20	2	LATMIN 1/100	00	99	NO VALUES FOUND FOR THIS PARAMETER				
C	2	22	1	LATHEH	N	N					
M	2	23	3	LONGDEC	065	179	125	125	125.00	.00	.4
M	2	26	2	LONMIN	00	59	29	29	29.00	.00	.4
N	2	28	2	LONMIN 1/100	00	99	NO VALUES FOUND FOR THIS PARAMETER				
C	2	30	1	LONHEH	W	W					
N	2	31	5	DEPTH TO BOTTOM	00001	60000	4506	4506	4506.00	.00	.4
N	2	36	5	DEPTH OF METER	00000	60000	NO VALUES FOUND FOR THIS PARAMETER				
M	3	16	2	OBS DATE YR	74	80	77	77	77.00	.00	15072
M	3	18	2	OBS DATE MO	01	12	7	12	9.17	1.53	15072
M	3	20	2	OBS DATE DAY	01	31	1	31	15.55	8.86	15072
M	3	22	2	OBS DATE HR	00	23	0	23	11.50	6.92	15072
M	3	24	2	OBS DATE MIN	00	59	0	0	.00	.00	15072
N	3	26	2	OBS DATE 1/100 MIN	00	99	NO VALUES FOUND FOR THIS PARAMETER				
M	3	28	6	E-W (U) COMPONENT	-20000	20000	912	944	49.48	235.14	15072
M	3	34	6	N-S (V) COMPONENT	-20000	20000	1037	1536	145.01	421.56	15072
N	3	40	4	TEMPERATURE TO 1/100	-200	2200	143	152	145.94	1.38	11304
N	3	45	5	PRESSURE DB TO 1/10	00010	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	3	50	4	CONDUCTIVITY	1500	5500	NO VALUES FOUND FOR THIS PARAMETER				
M	4	16	2	OBS DATE YR	74	80	NO VALUES FOUND FOR THIS PARAMETER				
M	4	18	2	OBS DATE MO	01	12	NO VALUES FOUND FOR THIS PARAMETER				
M	4	20	2	OBS DATE DAY	01	31	NO VALUES FOUND FOR THIS PARAMETER				
N	4	22	2	OBS DATE HR	00	23	NO VALUES FOUND FOR THIS PARAMETER				
M	4	24	2	OBS DATE MIN	00	59	NO VALUES FOUND FOR THIS PARAMETER				
N	4	26	2	OBS DATE 1/100 MIN	00	99	NO VALUES FOUND FOR THIS PARAMETER				
M	4	28	6	E-W (U) COMPONENT	-20000	20000	NO VALUES FOUND FOR THIS PARAMETER				
M	4	34	6	N-S (V) COMPONENT	-20000	20000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	40	4	TEMPERATURE TO 1/100	-200	2200	NO VALUES FOUND FOR THIS PARAMETER				
N	4	45	5	PRESSURE DB TO 1/10	00010	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	50	4	SALINITY	2000	3600	NO VALUES FOUND FOR THIS PARAMETER				

RECORDS READ :

15076

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800741	F144	TR3489	0080	313F	310C	1975/08/29	750823	308015
7800741	F144	TR3490	0080	313F	310C	1976/02/18	760211	308016
7800741	F015	TT1530	0080	313F	317F	1977/07/04	EBW-3	308017
7800741	F015	TT1531	0080	313F	317F	1977/07/04	EBW-3	308018
7800741	F015	TT1532	0080	313F	317F	1977/07/04	EBW-3	308019
7800741	F015	TT1533	0080	313F	317F	1977/07/04	EBW-3	308020

(6 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7800741	F144	TR3489	310C	21	668	75/08/29	75/10/13
7800741	F144	TR3490	310C	18	651	76/02/18	76/04/14
7800741	F015	TT1530	317F	24	3769	77/07/04	77/12/01
7800741	F015	TT1531	317F	24	3769	77/07/04	77/12/01
7800741	F015	TT1532	317F	24	3769	77/07/04	77/12/01
7800741	F015	TT1533	317F	24	3769	77/07/04	77/12/01

(6 rows affected)