

DDI- A:2:16

DATA DOCUMENTATION

RECEIVED

TR 301

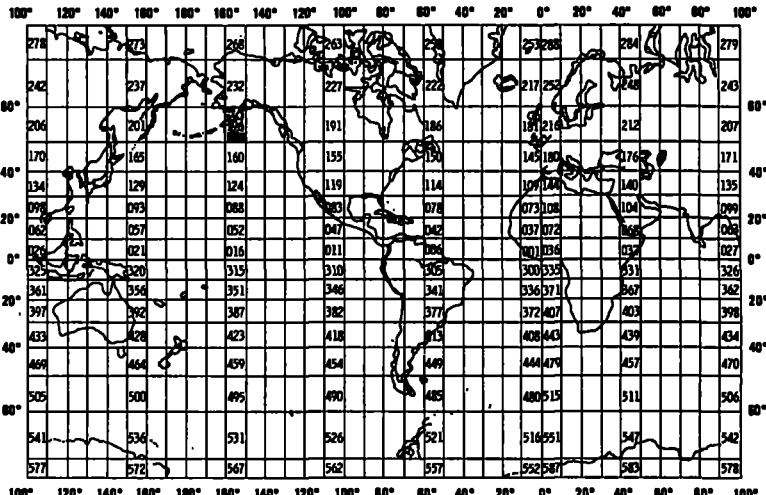
NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

NEGOA

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			
Richard Feely Pacific Marine Environmental Laboratory/ERL/NOAA 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	
OCSEAP (Bureau of Land Management) Research Unit 152		770627	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
ACONA -245	ship	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		USA USA	06/27/77 07/12/77
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. Lower Cook Inlet and Shelikof Strait 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 checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Dr. Richard Feely MEL/ERL/NOAA 442-5436 (commercial) 399-5436 (FTS)			

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Particulate major and minor elements:	C- Wt. % N- Wt. % MgO- Wt. % Al ₂ O ₃ - Wt. % SiO ₂ - Wt. % K ₂ O- Wt. % CaO- Wt. % TiO ₂ - Wt. % Cr- ppm Mn- ppm Fe- Wt. % Ni- ppm Cu- ppm Zn- ppm Pb- ppm	See attached sheet.	See attached sheet.	See attached sheet.
C, N, MgO, Al ₂ O ₃ , SiO ₂ , K ₂ O, CaO, TiO ₂ , Cr, Mn, Fe, Ni, Cu, Zn and Pb				
Total suspended matter (TSM)	µg/l			
Nephels	kHz to hundredths			

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
			<div style="text-align: center;"> <p>NOAA FORM 13 (3-72)</p> <p>USCOM 44289-P72</p> </div>	

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

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.

Record type 1 is a cruise and station description header card;

Record type 2 is a station number 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 Jane Hannuksela (206) 442-5436

ADDRESS PMEL, Hanger 32, 7600 Sand Point Way N. E., Seattle, WA 98115

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Station/Sample Header)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., b/ta, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '021'
File Identifier	14	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
Month	36	2	Bytes	I2	01 to 12
Day	38	2	Bytes	I2	01 to 31 G.M.T.
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
Core Code	49	1	Bytes	A1	
Blank	50	31	Bytes	31X	

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Text)

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 '2'
Sequence Number	11	3	Bytes	I3	Ascending order for sorting
Station Number	14	5	Bytes	A5	
Text	19	62	Bytes	62A1	Any descriptive alpha-numeric information

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data III)

11 011 2 0107 0 011

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., b10, 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 '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	Kilohertz to hundredths
Total Suspended Matter (TSM)	33	6	Bytes	I6	Micrograms per liter
Total Particulate Carbon (TPC)	39	5	Bytes	I5	% by weight to thousandths
Trace Code	44	1	Bytes	A1	*
Total Particulate Nitrogen (TPN)	45	5	Bytes	I5	% by weight to thousandths
Trace Code	50	1	Bytes	A1	*
Magnesium Oxide (MgO)	51	5	Bytes	I5	% by weight to thousandths
Trace Code	56	1	Bytes	A1	*
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

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data III) (continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Trace Code	74	1	Bytes	A1	*
Calcium Oxide (CaO)	75	5	Bytes	I5	% by weight to thousandths
Trace Code	80	1	Bytes	A1	* *Trace code - to be used when no concentrations recorded ' ' - no information '1' - trace found but too small to measure '2' - measurement beyond limits of instrumen- tation

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data II)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g., bfts, 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 Chromium	34	6	Bytes	I6	Parts per million by weight to tenths
Trace Code	40	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	*
Total Nickel	53	5	Bytes	I5	Parts per million by weight to tenths
Trace Code	58	1	Bytes	A1	*
Total Copper	59	5	Bytes	I5	Parts per million by weight to tenths
Trace Code	64	1	Bytes	A1	*
Total Zinc	65	5	Bytes	I5	Parts per million by weight to tenths

RECORD FORMAT DESCRIPTION

RECORD NAME Trace Metals (Data II) (continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Trace Code	70	1	Bytes	A1	* Parts per million by weight to tenths * *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
Total Lead	71	5	Bytes	I5	
Trace Code	76	1	Bytes	A1	
Blank	77	4	Bytes	4X	

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

Acc # 78-0451

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 NOAA/EDS/NODC-D752 (202) 634-7505
ADDRESS 2001 Wisconsin Ave. N.W. Wash. D.C. 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 <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>VOL. SER = 009306 (1, SL)</p> <p>DSN = TR3101</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>BLK SIZE = 4800</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>LRFL = 80</p>

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	06/27/77	✓			✓				

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800451	F144	TR3101	0081	313F	31AC	1977/07/02	245	307150

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
7800451	F144	TR3101	31AC	71	1617	77/07/02	77/07/11

(1 row affected)