

File type 29

ACCESSION
NUMBER

78-0021

DDF-A:1:06

DATA DOCUMENTATION FORM

TR 2665
F029NOAA FORM 24-13
(2)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

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 PACIFIC MARINE ENVIRONMENTAL LABORATORY/NOAA 7600 SAND POINT WAY NE SEATTLE, WA 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED PUGET SOUND ENERGY - RELATED RESEARCH PROJECT (MESA)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT SF7706	
4. PLATFORM NAME(S) SNOW GOOSE	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR USA USA	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 10/3/77 10/5/77
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. 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) A. J. CHESTER 399-4700			

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USCOMM-DC 44289-P72

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
CHLOROPHYLL - A	mg m ⁻³ : mg m ⁻²	WATER BOTTLES	FLUORESCENT (TURNER II)	For m ² values numerically integrated from 0-50 m
PHEOPIGMENTS				

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

*TWO RECORD TYPES, MASTER (TYPE 1) AND DETAIL
RECORD (TYPE 2) DIFFERENTIATED BY BYTE 10*

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

*ALL DATA IS ON KEY PUNCHED CARDS. EVERY DATA GROUP
(DATA FROM A MUSKIE BOTTLE CAST) IS COMPOSED OF ONE
MASTER RECORD AND SEVERAL DETAIL RECORDS*

(ONE DETAIL RECORD PER SAMPLE DEPTH).

*Cards converted to tape at NODC with characteristics
as denoted under blocks #5-#13 below.*

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER *ALEXANDER J. CHESTER*

ADDRESS *7000 SAND POINT WAY NE SEATTLE, WA 98115*

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 checked="" 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 checked="" 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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><i>Non-Label tape:</i></p> <p><i>Vol. Ser. = 09769 (orig.)</i></p> <p><i>Vol. Ser. = 14470 (o/c)</i></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>_____</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>

RECORD FORMAT DESCRIPTION

CORD NAME MASTER RECORD - PRIMARY PRODUCTIVITY

15. FIELD NAME	16. POSITION FROM-1 MEASURED IN BYTES (e.g. 100, 1000)	17. LENGTH NUMBER	18. UNITS	19. ATTRIBUTES	20. USE AND MEANING
File Type	1	3	Bytes	A3	Always '009'
File Identifier	4	6	Bytes		
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes		
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	
Longitude					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31	2	Bytes	I2	Last two digits of year 1-12 1-31 0-23 0-59 GMT
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minutes	39	2	Bytes	I2	
Time Zone	41	1	Bytes	A1	Always '+' or '-'
Time Zone	42	2	Bytes	A2	01-12
Depth to Bottom	44	5	Bytes	I5	To Whole Meters
Chlorophyll <u>a</u> (Integrated)	49	4	Bytes	I4	To Tenths (mg. m ⁻²)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., 5 ft, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Phaeopigments (Integrated)	53	4	Bytes	I4	To Tenths (mg m^{-2})
Carbon Assimilation (Integrated)	57	5	Bytes	I5	To Tenths ($\text{mg C m}^{-2} \text{ Day}^{-1}$)
One Percent Light Depth	62	3	Bytes	I3	To Whole Meters
Phosphate $\text{PO}_4\text{-P}$ Reactive time	65	2	Bytes	I2	To Whole Minutes
pH Scale	67	1	Bytes	I1	1 = NBS pH scale 2 = Sorensen pH scale 3 = Hansson pH scale
In Situ Corrections for pH measurements	68	1	Bytes	I1	1 - Temperature and pressure correction have been made. 2 - No corrections made.
SECCHI Depth	69	2	Bytes	I2	To Whole Meters
Mixed Layer Depth	71	3	Bytes	I3	To Whole Meters
Light Level (Aboard Platform)	74	3	Bytes	I3	Langley/Day
Blank	77	4	Bytes	4X	

RECORD FORMAT DESCRIPTION

RECORD NAME: DETAIL RECORD - PRIMARY PRODUCTIVITY

15. FIELD NAME	16. POSITION FROM - 1 MEASURED IN Bytes (e.g., 5th, 4 bytes)	17. LENGTH		18. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '029'
File Identifier	4	6	Bytes		
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes		
Depth of Sample	16	4	Bytes	I3	To Tenths of Meters
Chlorophyll a Concentration	20	4	Bytes	I4	To Hundredths (mg m ⁻³)
Phaeopigment Concentration	24	4	Bytes	I4	To Hundredths (mg m ⁻³)
Carbon Assimilation	28	5	Bytes	I5	To Hundredths (mg C m ⁻³ hr ⁻¹)
Elapsed Time of Incubation	33	4	Bytes	I4	2 bytes hours, 2 bytes minutes
Oxygen	37	4	Bytes	I4	To Hundredths (ml/l)
Phosphate PO ₄ -P (inorganic)	41	3	Bytes	I3	To Hundredths (μg-at/l)
Ammonia NH ₃ -N	44	3	Bytes	I3	To Tenths (μg-at/l)
Nitrate NO ₃ -N	47	3	Bytes	I3	To Tenths (μg-at/l)
Nitrite NO ₂ -N	50	3	Bytes	I3	To Hundredths (μg-at/l)
Silicate SiO ₃ -Si	53	5	Bytes	I5	To Hundredths (μg-at/l)
pH	58	3	Bytes	I3	To Hundredths
Alkalinity, total	61	4	Bytes	I4	To Thousandths (meq/l)
Temperature	65	4	Bytes	I4	To Hundredths (°C)
Salinity	69	4	Bytes	I4	To Hundredths (‰)
Blank	73	4	Bytes	4X	
Sequence Number	78	3	Bytes	I3	

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 (✓)	
FLUOROMETER (TURNER 111)	7 JAN 1977	✓			✓				

RECORD FORMAT DESCRIPTION

RECORD NAME

78-0021

FILE 029

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
TR 2665				(1)	RECORD TYPE '2' CHANGED to '3' OTHER COLUMN SHIFTS MADE to CORRECT THE FORMAT CHANGES OF FILE 029.

File type	029	177
SDF1	002158	
SDF2	020081	
ANSI	020075	
TR	154-183, 270, 448, 506-510, 514, 579, 878-880, 947, 948, 950-1049, 1054, 1055, 1310, 1325-1330, 1549, 1683-1688, 1750, 1751, 2039, 2040, 2665, 3097-3099, 3646-3650, 3839, 3889, 6454, 6455	192, 261

Accession No: 78-0021

ID: Primary Productivity

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800021	F029	TR2665	0082	313F	32GS	1977/10/04	TR2665	306249

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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7800021	F029	TR2665	32GS	3	21	77/10/04	77/10/05

(1 row affected)