77-0085

DATA DOCUMENTATION FORM

RECEIVED JAN 17 1977

TR0527

NOAA FORM 24-13 (4-72)

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

NEGOA W3081

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.

RU 356

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

A.C. BROAD
DEPT. OF BIOLOGY
WESTERN WASHINGTON STATE COLLEGE
BELLINGHAM, WA 98225

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

OCSEAP RU 356

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

FILE ID H08J24
FILE TYPE 030

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
~~Discoverer~~ ~~PROPERTY OF Lloyd~~	ON FOOT	US	US	8/6/75	9/6/75

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

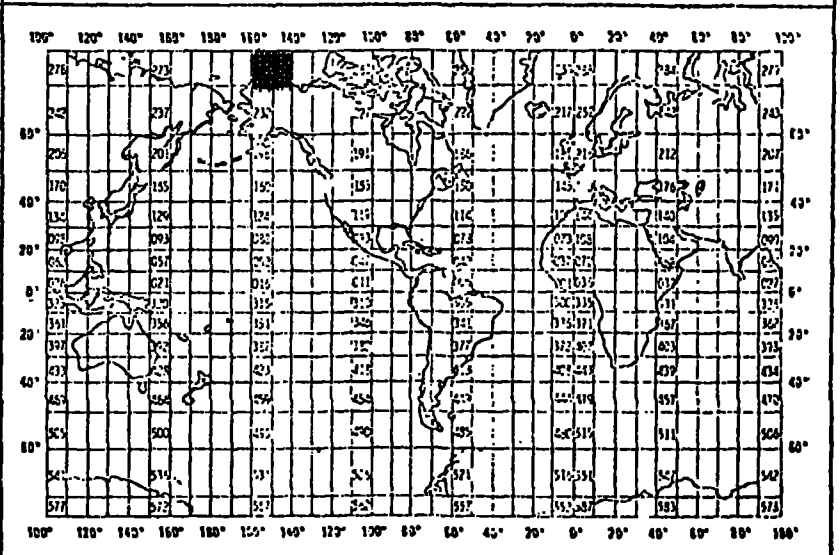
☒ NO ☐ YES ☐ PART *(SPECIFY BELOW)*

10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER *(AND ADDRESS IF OTHER THAN IN ITEM-1)*

GREGG PETRIE
DEPT. GEOLOGY
WESTERN WASHINGTON STATE COLLEGE
BELLINGHAM, WA 98225
(206) 676 - 8339

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA



Intertidal Data

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS. 1

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

Seven distinct record types; (1) File Header, (2) Station Header, (3) Site Header, (4)Composite Data, (5) Individual Sample Data, (6) Profile Data, and (7) Comment Records, differentiated by byte 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

After the file header, records are grouped together by station number (in increasing order) with a station header record (type=2) being the first of a set of related records. (i.e., each record type 2 is followed by corresponding record types 3, 4, 6, and 7). No record type 5 format is used.

Note: Any unused fields are filled with spaces.

ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Gregg Petrie (206) 676-8339
ADDRESS Dept. Geology, W.W.S.C., Bellingham, WA 98225

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

7. PARITY
☐ ODD
☒ EVEN

8. DENSITY
☐ 200 BPI ☐ 1600 BPI
☐ 556 BPI
☒ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN)
☐ 3/4 INCH
☒ IBM Standard

10. END OF FILE MARK
☐ OCTAL 17
☒ IBM Standard

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*
Originator: A.C. Broad, Dept. Biology W.W.S.C., Bellingham, WA 98225
Data Type: remarks, hydrographic, profile, environment, biological
Volume No: 000941 (no label on tape)

12. PHYSICAL BLOCK LENGTH IN BYTES
1200

13. LENGTH OF BYTES IN BITS
8

NOAA FORM 24-13 USCOMM-DC 44289-P72

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (File Header)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '1'
Vessel Name	11	11	Bytes	A11	
Cruise Number	22	6	Bytes	A6	
Start Date,					
Year	28	2	Bytes	I2	00 to 99
Month	30	2	Bytes	I2	01 to 12
Day	32	2	Bytes	I2	01 to 31
End Date,					
Year	34	2	Bytes	I2	00 to 99
Month	36	2	Bytes	I2	01 to 12
Day	38	2	Bytes	I2	01 to 31
Senior Scientist	40	19	Bytes	A19	Left justified
Investigator and/or Institution	59	62	Bytes	A62	Left justified

USCOMM-DC 44289-P72

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (Station Header)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Latitude,					
Degrees	20	2	Bytes	I2	
Minutes	22	4	Bytes	I4	To hundredths
Hemisphere	26	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	27	3	Bytes	I3	
Minutes	30	4	Bytes	I4	To hundredths
Hemisphere	34	1	Bytes	A1	'E' or 'W'
Year	35	2	Bytes	I2	00 to 99 } G.M.T.
Month	37	2	Bytes	I2	01 to 12 } G.M.T.
Day	39	2	Bytes	I2	01 to 31 } G.M.T.
Start Time					
Hours	41	2	Bytes	I2	00-23 } G.M.T.
Minutes	43	2	Bytes	I2	00-59 } G.M.T.
Elapsed Time,					
Hours	45	2	Bytes	I2	
Minutes	47	2	Bytes	I2	
Time Zone	49	3	Bytes	A3	-12 to +12
Surface Salinity	52	5	Bytes	I5	Parts per thousand to thousandths
Surface Temperature	57	5	Bytes	I5	Deg. C. to hundredths

RECORD NAME Intertidal Data (Station Header Continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (Digits, bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
Air Temperature	62	4	Bytes	I4	Deg. C. to tenths
SECCHI Disc Depth	66	3	Bytes	I3	Meters to tenths
Weather Code	69	2	Bytes	A2	WMO Code 4677
Cloud Type Code	71	1	Bytes	A1	WMO Code 0500
Cloud Amount Code	72	1	Bytes	A1	WMO Code 2700
Wind Speed	73	2	Bytes	I2	Whole knots
Wind Direction	75	3	Bytes	I3	Whole degrees
Sea State Code	78	1	Bytes	A1	WMO Code 3700
Breaker Height Code	79	1	Bytes	A1	WMO Code 3700
Exposure Direction	80	3	Bytes	I3	Whole degrees
Substrata Type Codes					Any combination of up to three Substrata Type Codes. Code from right to left (most predominant on the right).
Primary	83	1	Bytes	A1	
Secondary	84	1	Bytes	A1	
Tertiary	85	1	Bytes	A1	
Barometric Pressure	86	4	Bytes	I4	Millibars to tenths
Habitat Codes					
Geomorphic	90	1	Bytes	A1	Use Habitat Code
Composition	91	1	Bytes	A1	Use File Type '030' Composition Code
Cover	92	1	Bytes	A1	Use File Type '030' Cover Code
Slope	93	1	Bytes	A1	Use File Type '030' Slope Code
Blank	94	27	Bytes	27X	

RECORD NAME Intertidal Data (Site Header)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Catalog Number	20	8	Bytes	A8	Originator's internal number
Photograph Number	28	10	Bytes	A10	Originator's internal number
Gear Type Code	38	1	Bytes	A1	Use File 030 Gear Type Code
Transect Number	39	2	Bytes	A2	
Transect Direction	41	3	Bytes	I3	Whole Degrees
Meter Number	44	4	Bytes	A4	
Zone/Arrow/ No. of Sample	48	3	Bytes	A3	
Quadrat Size	51	5	Bytes	I5	Square meters to ~~ten~~ thousandths
Elevation	56	4	Bytes	I4	Meters to hundredths
Substrata Type Codes	60	3	Bytes	3A1	Any combination of up to three Substrata Type Codes. Code from right to left (most predominant to right).
Surface Topography Codes	63	3	Bytes	3A1	Any combination of up to three File 030 Surface Topography Codes Code from right to left (most predominant to right).

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (Site Header, Continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
Collection Time Hours	66	2	Bytes	I2	G.M.T.
Minutes	68	2	Bytes	I2	G.M.T.
Sieve Size	70	4	Bytes	I4	Millimeters to hundredths
Dilution Volume	74	3	Bytes	I3	*Decimal Equivalents (.XXX)
Quadrat Slope	77	2	Bytes	I2	Whole degrees
Direction of Quadrat Slope	79	3	Bytes	I3	Whole degrees
Grab Number	82	2	Bytes	I2	Sequential order of multiple digs
Sediment	84	7	Bytes	I7	Liters to thousandths
Grain Size	91	2	Bytes	I2	Ø number ($-LOG_2$ MM.) with a range from -8 to +12. Minus Ø must be explicitly reported with a minus sign in byte 91, plus Ø should not incorporate '+' sign.
Patch Grid Size	93	5	Bytes	I5	Square meters To Thousands
Medium Frame Multiple	98	2	Bytes	I2	Number of Grids Occupied by all Species within
Large Frame Multiple	100	2	Bytes	I2	
Total Work Area	102	5	Bytes	I5	Square meters To Thousands
Depth	107	5	Bytes	I5	Meters to tenths
Distance of Net Tow	112	3	Bytes	I3	Meters to tenths
Blank	115	6	Bytes	6X	

*The dilution volume is that portion of a sample which is analyzed after the sample has been diluted, as a means of statistically estimating the composition of the sample without having to examine the entire sample. Therefore, the dilution volume will be recorded in decimal equivalents. Example: a sample that is diluted so as to equal 16 times its original volume, with one sixteenth being the part studied, will have its dilution volume recorded as .063.

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (Composite Data)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Taxonomic Code	20	10	Bytes	5A2	
Sub Species Code	30	2	Bytes	A2	
Sex Code	32	1	Bytes	A1	
Condition Codes	33	3	Bytes	3A1	Use File Type '030' Condition Code. Any combination of up to three Condition Codes. Code from right to left.
Coverage	36	3	Bytes	I3	The number of species too small to be counted, or too well attached to the substrate to be removed, will be estimated by the percentage of the quadrat which they cover. Range is greater than 0% and less than or equal to 100%.
Count	39	5	Bytes	I5	Total number of individuals
Wet Weight	44	7	Bytes	I7	Grams to thousandths
Dry Weight	51	7	Bytes	I7	Grams to thousandths
Minimum Length	58	6	Bytes	I6	Millimeters to hundredths
Maximum Length	64	6	Bytes	I6	Millimeters to hundredths
Displacement Volume	70	5	Bytes	I5	Milliliters to tenths
Mean Length	75	6	Bytes	I6	Millimeters to hundredths
Minimum Width	81	6	Bytes	I6	Millimeters to hundredths
Maximum Width	87	6	Bytes	I6	Millimeters to hundredths
Mean Width	93	6	Bytes	I6	Millimeters to hundredths

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (Composite Data) Continued

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Minimum Age	99	2	Bytes	I2	Whole years
Maximum Age	101	2	Bytes	I2	Whole years
Mean Age	103	2	Bytes	I2	Whole years
Small Frame	105	3	Bytes	I3	Number of grids occupied by species within
Medium Frame	108	3	Bytes	I3	
Large Frame	111	2	Bytes	I2	
Dilution Volume	113	3	Bytes	I3	*Decimal equivalents (.XXX)
Plant Height	116	2	Bytes	I2	Whole centimeters
Blank	118	3	Bytes	3X	

*The dilution volume is that portion of a sample which is analyzed after the sample has been diluted, as a means of statistically estimating the composition of the sample without having to examine the entire sample. Therefore, the dilution volume will be recorded in decimal equivalents. Example: a sample that is diluted so as to equal 16 times its original volume, with one sixteenth being the part studied, will have its dilution volume recorded as .063.

RECORD NAME Intertidal Data (Individual Sample Data)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Taxonomic Code	20	10	Bytes	5A2	
Subspecies Code	30	2	Bytes	A2	
Sex Code	32	1	Bytes	A1	
Condition Codes	33	3	Bytes	3A1	Use File Type '030' Condition Codes, most predominant to left.
Age	36	2	Bytes	I2	Whole years
Wet Weight	38	7	Bytes	I7	Grams to thousandths
Dry Weight	45	7	Bytes	I7	Grams to thousandths
Length	52	6	Bytes	I6	Millimeters to hundreds
Width	58	6	Bytes	I6	Millimeters to hundreds
Displacement Volume	64	5	Bytes	I5	Milliliters to tenths
Blank	69	52	Bytes	52X	

RECORD NAME Intertidal Data (Profile Data)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '6'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Oxygen	20	3	Bytes	I3	Milliliters per liter To Tenths
pH	23	2	Bytes	I2	To tenths
pH Scale	25	1	Bytes	A1	1 = NBS pH scale 2 = Sorensen pH scale 3 = Hansson pH scale
Salinity	26	3	Bytes	I3	Parts per thousand to tenths
Interstitial Salinity	29	3	Bytes	I3	Parts per thousand to tenths
Permafrost Depth	32	2	Bytes	I2	Meters to tenths
Water Temperature	34	3	Bytes	I3	Degrees Celsius to tenths
Secchi Disk Depth	37	4	Bytes	I4	Meters to hundredths (centimeters
Grain Size in Phi Unit Levels					
Greater than -8	41	3	Bytes	I3	
-8 to -6	44	3	Bytes	I3	
-6 to -4	47	3	Bytes	I3	
-4 to -2	50	3	Bytes	I3	
-2 to -1	53	3	Bytes	I3	Percent by weight to tenths
-1 to 0	56	3	Bytes	I3	
0 to 1	59	3	Bytes	I3	
1 to 2	62	3	Bytes	I3	
2 to 3	65	3	Bytes	I3	

RECORD NAME Intertidal Data (Profile Data) Continued //

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
3 to 4	68	3	Bytes	I3	Percent by weight to tenths
Less than 4	71	3	Bytes	I3	
Blank	74	47	Bytes	47X	

RECORD FORMAT DESCRIPTION

RECORD NAME Intertidal Data (Comment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '030'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '7'
Station Number	11	5	Bytes	A5	Right justified
Sequence Number	16	4	Bytes	I4	Ascending order for sorting
Comments	20	101	Bytes	A101	Any alphanumeric comment data

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 7700084 F030 TR0526 0081 311W 32P8    1975/07/17 NULL          302623

(1 row affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 7700084 F030 TR0526 32P8 5      93     75/07/17   75/07/27

(1 row affected)
```