

ACCESSION
NUMBER

73-0118

DDF A:1:19

DATA DOCUMENTATION FORM

TR0013

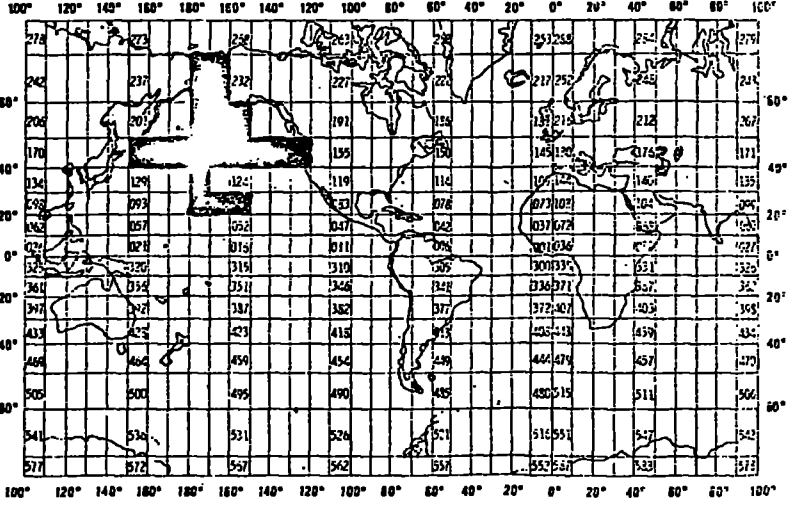
NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-k2651

L130

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 Oregon State University School of Oceanography Corvallis, Oregon 97331			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Air-Sea Gas Exchange (NSF)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT Y6808C Y6812A Surveyor Cruise 9-20-68 to 10-23-68 Endeavor Transpac 3-17-69 to 5-01-69 Y6906C (COOC-4) Y6908A (COOC-6) Y6910E (COOC-10)	
4. PLATFORM NAME(S) R/V Yaquina Surveyor Endeavour	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ships	6. PLATFORM AND OPERATOR NATIONALITY(IES) USA USA	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 6-23-68 10-31-69
8. ARE DATA PROPRIETARY? <input type="checkbox"/> NO <input checked="" 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 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) L.I Gordon (503) 754-1271			

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	T _{or}	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
Date	Digits 1&2:Month Digits 3&4:Day	N/A	N/A	N/A
Time	Local	Ship's Clocks	N/A	N/A
Station	Arbitrary Name	N/A	N/A	N/A
Depth	Meters; if entry is a depth, this is coded by an "M" followings the number. If a "*" follows the "M" this line of data is from a hydro-cast. If no "*", the data are from a PCO ₂ cast.	Wire length and angle	N/A	Correction for wire angle by multiplying wire-length by cosine of wire angle.
Latitude	Degrees in Decimal Fractions	Ships position reports determined by radar, loran and satellite navigation.	N/A	A positive number denotes North, a negative (-)number Denotes South,
Longitude	Degrees in Decimal Fractions	Ships position reports determined by radar, loran and satellite navigation	N/A	A positive number denotes West, a negative number (-) denoted East.
Temperature	°C	Thermometer in equilibrator	N/A	Systematically higher than in-situ T by 0-0.7°C
Salinity	‰	Water from equilibrator (see sea PCO ₂) or bottle cast	Inductive Salinometer Hytech Models 621, 6230 & Industria Mfg. Engr. Model II.	Hytech & Unesco tables

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
PH	PH Units	(1) Samples from equilibrator (see sea PCO ₂) or bottle casts, or (2) Direct measurement of water in equilibrator	PH meters and glass electrodes. If method used is (1), Orion model 801-method described by Park (1966); if method used is (2), Leeds & Northrup model 7405-method Wyatt et al (1971).	N/A
Sea PCO ₂ (Partial Pressure of CO ₂)	10 ⁻⁶ ATM or PPM	Non-dispersive infrared gas analyzer. Mine safety Appliances model lira 200. See Gordon and Park (1972)	CO ₂ concentration measured with gas analyzer (IRA) of an air stream equilibrated with sea water.	Data corrected for non-linearity of IRA, pressure in IRA and change of concentration caused by drying the air stream
Air PCO ₂ (Partial Pressure of CO ₂)	10 ⁻⁶ ATM or PPM	Non-dispersive infrared gas analyser. Mine safety Appliances model lira 200. See Gordon and Park (1972).	CO ₂ concentration in undried atmospheric air pumped from top of bow jack staff or foremast or mainmast head, depending on wind direction	Data corrected for non-linearity of IRA and change of concentration caused by drying the air stream
CO ₂ Saturation	10 ⁻⁶ ATM or PPM	N/A	Difference between sea and air PCO ₂	Simple arithmetic subtraction
Alkalinity	Milli-equivalents Per Liter	Samples from equilibrator (See Sea PCO ₂) or bottlecasts	Anderson-Robinson Method (1971)	N/A
Oxygen	ML STP/L	Samples from equilibrator (See Sea PCO ₂) or bottlecasts.	Winkler titration per Strickland & Parsons(1968)	N/A
Apparent O ₂ Utilization	ML STP/L	N/A	Calculated from Carpenters solubility data	Apparent O ₂ utilization values calculated from equation of Gilbert, Pawley & Parks (1968).
Phosphate Nitrate(+Nitrite) Silicate	μMOL/KG	Samples from equilibrator or bottle casts.	Technicon autoanalyzer by methods of Atlas et al (1971). Some samples frozen for analysis ashore.	N/A

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
Dry Bulb Temperature	° C	Sling Psychrometer	N/A	N/A
Relative Humidity	%	Sling Psychrometer	N/A	N/A
Total Carbon Dioxide	ML/L	Samples from equilibrator or bottle cast	Gas chromatograph See Park et al (1964)	Calculated as in Gordon & Park (1972.)

C. DATA FORMAT

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

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

1st record is a 64 character record describing file, number, cruise number and date of cruise, with the remaining "Data" Records of 132 characters each.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Files are arranged in chronological order with each file representing an originators cruise.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER David Standley 503-754-1271
ADDRESS School of Oceanography, Oregon State University, Corvallis, Ore 97331

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE (Originators 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>L. Gordon, D. Standley Oregon State University N. Pacific Surface PCO₂ V.I. 1968, 1969 Tape No. 13261</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input checked="" 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>132</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>6</p>

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.

RECORD FORMAT DESCRIPTION

Data Records

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Date	1	4	bytes	I4	Month of year, day of month
Time	5	4	"	I4	Station time (local time)
Station	9	5	"	A5	<p>Station name. Observations are taken at the surface unless the field contains a number followed by the letter 'M'. This indicates observations were taken at that depth (meters) for the proceeding station.</p> <p>AH=Off Astoria, Ore., along 46°14.0'N</p> <p>BH=Off Brookings, Ore., along 42°00.0'N</p> <p>CH=Off Coos Bay, Ore., along 43°20.6'N</p> <p>DB=Off Depoe Bay, Ore., on a line between 44°48.8'N-124°05.4'W and 45°00.0'N, 124°34.6'W</p> <p>UH=Off Umpqua River, Ore., along 43°39.0'N</p> <p>YH=Off Yachats, Ore., along 44°20.0'N</p> <p>OR=Off Otter Rock, Ore., 44°45.3'N</p> <p>BC=Off Beaver Creek, Ore., 44°31.0'N</p> <p>A=Off Alsea, Ore., along 44°26.0'N</p> <p>Y=Off Yachats, Ore., along 44°20.0'N</p> <p>GK=Off Gwynn Knoll, Ore., along 44.13.9'N</p> <p>HH=Off Heceta Head, Ore., along 44°08.1'N</p> <p>FH=Off Florence, Ore., along 43°59.0'N</p> <p>NH=Off Newport, Ore., along 44°39.1'N</p> <p>Most stations are identified by a letter number code. Numerals that have a letter or letters prefix are the distance offshore in nautical miles. Thus NH-85 is a hydrographic station 85 miles off the coast from Newport, Ore. All stations that have other than the above letter prefixes were numbered sequentially with the letter prefix designating either a particular leg of that cruise or designating what work was done on that particular station.</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Data Records (continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Latitude	14	7	bytes	F7.3	Decimal Degrees. North is a positive number and South is a negative number.
Longitude	21	7	"	F7.3	Decimal Degrees. West is a positive number and East is a negative number.
Temperature	28	7	"	F7.3	Centigrade
Salinity	35	7	"	F7.3	‰
pH	42	7	"	F7.3	pH Units
Sea PCO2	49	7	"	F7.2	PPM
Air PCO2	56	7	"	F7.2	PPM
Satin PCO2	63	7	"	F7.2	PPM
Alkalinity	70	7	"	F7.2	MEQ/L
Oxygen	77	7	"	F7.3	ML/L
AOU	84	7	"	F7.3	ML/L
Phosphate	91	7	"	F7.3	μM
Nitrate	98	7	"	F7.3	μM
Silicate	105	7	"	F7.3	μM
DBT	112	7	"	F7.3	Dry Bulb Temperature/Centigrade
RH	119	7	"	F7.3	Relative Humidity/%
TCO2	126	7	"	F7.3	ML/L

RECORD FORMAT DESCRIPTION

RECORD NAME User tape supplement for "File Header" and "Data" records.

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
FILE HEADER RECORDS ON TAPE # 5065 ALL LOGICAL FILES ARE ON ONE PHYSICAL FILE.					
HEAD	001	64-76	bytes	16A4 to 19A4	Text describing the logical file.
FILLER	65-77	58-70	"	58A1 to 70A1	Blank filler characters.
RECTYP	135	1	"	I1	Record type for header = 1.
DATA RECORDS ON TAPE # 5065 ANY NUMBER OF DATA RECORDS MAY FOLLOW EACH FILE HEADER.					
DATA	001	132	bytes	various	See record format of originator tape format in this DDF.
LATHEM	133	1	"	A1	Latitude hemisphere. N or S.
LONHEM	134	1	"	A1	Longitude hemisphere. W or E.
RECTYP	135	1	"	I1	Record type for data = 2.

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

4. RESPONSIBLE COMPUTER SPECIALIST: Code DM5200, NODC, EDS, NOAA.
NAME AND PHONE NUMBER _____
ADDRESS _____

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 checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____		9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .56 inches	
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____		10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> Std. IBM 9 Track.	
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Oregon State Univ. data. NODC Acc. # 73-0118 DCB=(BLKSIZE=2700,LRECL=135,RECFM=FB), LABEL=(1,NL),VOL=SER=5065,	
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____			
		12. PHYSICAL BLOCK LENGTH IN BYTES 2700	
		13. LENGTH OF BYTES IN BITS 8	

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7300118	L130	TR0013	9999	3103	31SU	1968/09/20	Y6808C	281751
7300118	L130	L05442	9999	3103	31YQ	1969/06/01	Y6906C	281752
7300118	L130	L05441	9999	3103	31YQ	1969/10/01	Y6910E	281750
7300118	L130	L05443	9999	3103	31YQ	1969/07/01	Y6908A	281749
7300118	L130	L05444	9999	3103	31YQ	1968/06/01	Y6806C	281748
7300118	L130	TR0013	9999	3103	31YQ	1968/12/01	Y6812A	281747

(6 rows affected)

Pa\$\$word:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7300118	L130	TR0013	31SU	592		0 Sep 20 1968	Oct 23 1968
7300118	L130	L05442	31YQ	153		0 Jun 1 1969	Jul 1 1969
7300118	L130	L05441	31YQ	70		0 Oct 1 1969	Oct 1 1969
7300118	L130	L05443	31YQ	167		0 Jul 1 1969	Aug 1 1969
7300118	L130	L05444	31YQ	179		0 Jun 1 1968	Jul 1 1968
7300118	L130	TR0013	31YQ	38		0 Dec 1 1968	Dec 1 1968

(6 rows affected)