

DATA DOCUMENTATION FORM

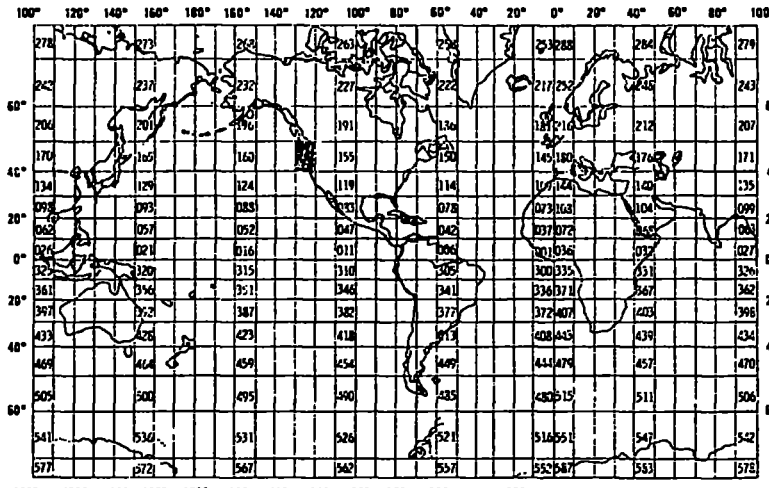
73 STATIONS

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

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 UNIVERSITY OF WASHINGTON DEPARTMENT OF OCEANOGRAPHY SEATTLE, WASHINGTON 98195				NODC TAPE # 3435 9TRK 1600 B.P.L. DCB = (RECFM = FB, LRECL = 80, BLKS, 32 = 800) LABEL = (, NL)			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Coastal Upwelling Ecosystem Analysis (CUEA) CUE - II IDOE				3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT CRUISE TT 081			
4. PLATFORM NAME(S) R/V TG THOMPSON		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP		6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S.		7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 11 JUL 73 21 JUL 73	
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 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) DON BISHOP (206) 543-7242							

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
STATION NUMBER	N/A	N/A	N/A	N/A
CAST	N/A	N/A	N/A	N/A
LATITUDE	DEGREES, MINUTES AND TENTHS	SATELLITE NAVIGATION, RADAR LORAN	N/A	N/A
LONGITUDE	DEGREES, MINUTES AND TENTHS	SATELLITE NAVIGATION, RADAR LORAN	N/A	N/A
DATE	GMT - DAY, MONTH, YEAR	CALENDAR	N/A	N/A
TIME	GMT - HOUR, MIN., SECONDS	SHIP'S CHRONOMETER	N/A	N/A
SONIC DEPTH	METERS	DEPTH RECORDER	N/A	N/A
SAMPLE DEPTH	METERS	METER WHEEL	N/A	N/A
TEMPERATURE	CENTIGRADE	REVERSING THERMOMETERS	N/A	N/A
SALINITY	‰	NISKIN BOTTLES	UNIVERSITY OF WASHINGTON SALINITY BRIDGE	N/A
SIGMA - T	N/A	N/A	N/A	H.O. 615
OXYGEN	ML/L	NISKIN BOTTLES	CHESAPEAKE BAY WINKLER METHOD	N/A
OXYGEN	MGAT/L	NISKIN BOTTLES	N/A	N/A
APPARENT OXYGEN UTILIZATION	N/A	N/A	N/A	WEISS' FORMULA (1970)
PERCENT OXYGEN SATURATION	N/A	N/A	N/A	WEISS' FORMULA (1970)

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 PROCESS TECHNIQUES WITH FILE AND AVERAGING
PHOSPHATE	UGAT/L	NISKIN BOTTLE	AUTOCANALYZER	N/A
SILICATE	UGAT/L	NISKIN BOTTLE	AUTOCANALYZER	N/A
NITRATE	UGAT/L	NISKIN BOTTLE	AUTOCANALYZER	CORRECTED FOR T CONTRIBUTION NITR. NITRITE DATA WERE AVAILABLE.
NITRITE	UGAT/L	NISKIN BOTTLE	AUTOCANALYZER	N/A
AMMONIA	UGAT/L	NISKIN BOTTLE	AUTOCANALYZER	N/A

C. DATA FORM 177

COMPLETE THIS SECTION FOR PUNCH CARDS, TAPE, MAGNETIC TAPE, OR DATA SUBASSEMBLES.

1. LIST RECORD TYPE(S) CONTAINED IN THE SEQUENCE(S) OF YOUR FILE.
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE.

HEADER RECORD - AN 'H' IN COLUMN 1. TWO HEADER RECORDS PER STATION CONTAINING ONE CAST. (I.E. FOUR(4) HEADER RECORDS FOR A STATION WITH A DOUBLE CAST.)

DATA RECORD - A 'D' IN COLUMN 1. THERE ARE FOUR (4) DATA RECORDS PER SAMPLE DEPTH.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

EACH STATIONS DATA HAS TWO (2) (FOUR (4) DEPENDING ON NUMBER OF CASTS) HEADER RECORDS FOLLOWED BY FOUR (4) DATA RECORDS PER SAMPLE DEPTH. DATA RECORDS ARE ALWAYS SEQUENCED BY INCREASING DEPTH IN GROUPS OF THREE(3) DATA RECORDS PER SAMPLE DEPTH.

3. ATTRIBUTES AS EXPRESSED IN ☐ PL/I ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DON BISHOP (206) 543-7242
ADDRESS UNIVERSITY OF WASHINGTON RD -10 SEATTLE, WASHINGTON 98195

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 checked="" 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 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 type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> 111</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 WAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)</p> <p>AA UNIVERSITY OF WASHINGTON ANSI STANDARD 9-TRACK TAPE DON BISHOP CUE - II HYDRO (206) 543-7242</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 250 BPI <input type="checkbox"/> 150 BPI</p>	

RECORD FORMAT 1 SUMMARY

HEADER RECORD 1 (2 3)

RECORD NAME

FIELD NAME	POSITION FROM-1 MEASURED IN CHAR (c, b, bits, bytes)	LENGTH		DATA TYPE	USE AND REMARKS
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	AN 'H' INDICATES HEADER RECORD
STATION NUMBER	2	5	CHAR	15	STATION DESIGNATION
CAST	18	5	CHAR	15	DESIGNATES THE NUMBER OF THE WIRE CAST FOR A STATION.
LATITUDE	30	9	CHAR	9A1	XX_XX.X_N (NOTE: ' ' DENOTES A BLANK SPACE)
LONGITUDE	42	10	CHAR	10A1	XXX_XX.X_W (NOTE: ' ' DENOTES A BLANK SPACE)
DATE	55	9	CHAR	9A1	GMT DATE (dd mm yy) (NOTE: ' ' DENOTES A BLANK SPACE)
TIME	69	8	CHAR	8A1	GMT TIME (hh:mm:ss)

RECORD FORMAT DESCRIPTION

RECORD NAME HEADER RECORD #2 (2 #4)

FIELD NAME	POSITION FROM-1 MEASURED IN CHAR (col, line, bytes)	LENGTH		UNIT	REMARKS AND MESSAGE
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	AN 'H' INDICATES HEADER RECORD
STATION NUMBER	2	5	CHAR	15	STATION DESIGNATION
CAST	18	5	CHAR	15	CAST DESIGNATION
SONIC DEPTH	29	7	CHAR	F7.0	DEPTH TO BOTTOM

RECORD FORMAT DESCRIPTION

DATA RECORD # 1

RECORD NAME

FIELD NAME	POSITION FROM 1 MEASURED IN CHAR (e.g., 118, 1000)	LENGTH		TEXT INCLUDED	REMARKS AND UNITS
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
CAST	2	8	CHAR	I8	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	10	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
TEMPERATURE	23	13	CHAR	F13.0	TEMPERATURE AT SAMPLE DEPTH DEGREES CELSIUS.
SALINITY	36	13	CHAR	F13.0	SALINITY AT SAMPLE DEPTH, PARTS PER THOUSAND.
SIGMA-T	49	13	CHAR	F13.0	AN EXPRESSION FOR THE DENSITY OF THE SAMPLE AT ATMOSPHERIC PRESSURE.
OXYGEN	62	13	CHAR	F13.0	ML/L

RECORD FORMAT B OPTION

RECORD NAME DATA RECORD 72

FIELD NAME	IS POSITION FROM-1 MEASURED 13 CHAR (0.1, 5.0, 1.0)	IS LENGTH		IS TYPE F13.0	IS. OBSERVED IN ADHIS
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
CAST	2	8	CHAR	I8	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	10	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
OXYGEN	23	13	CHAR	F13.0	MILLIGRAM-ATOMS/LITER
APPARENT OXYGEN UTILIZATION	36	13	CHAR	F13.0	DIFFERENCE BETWEEN THE SURFACE EQUILIBRIUM SOLUBILITY OF THE SAMPLE WATER AS DETERMINED BY WEISS' (1970) FORMULA AND THE OBSERVED OXYGEN CONCENTRATION IN MG-ATOMS/LITER.
PERCENT OXYGEN SATURATION	49	13	CHAR	F13.0	OBSERVED OXYGEN CONCENTRATION DIVIDED BY THE SURFACE EQUILIBRIUM SOLUBILITY VALUE (FROM WEISS' FORMULA).
PHOSPHATE	23	13	CHAR	F13.0	RELATIVE PHOSPHATE IN MICROGRAM ATOMS PER LITER.

RECORD NAME					
PARAMETER NAME	UNIT		DATA TYPE		DESCRIPTION
	SI UNIT	US UNIT	DATA TYPE	DATA TYPE	
PARAMETER NAME	SI UNIT	US UNIT	DATA TYPE	DATA TYPE	DESCRIPTION
RECORD CODE	1	1	CHAR	NO	A 'D' INDICATES A DATA RECORD
CAST	2	8	CHAR	16	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	10	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
SILICATE	25	13	CHAR	F13.0	DISSOLVED SILICON IN MICROGRAM ATOMS PER LITER
NITRATE	49	13	CHAR	F13.0	IN MICROGRAM ATOMS PER LITER CORRECTED FOR THE NITRITE CONCENTRATION WHEN NITRITE DATA WERE AVAILABLE
NITRITE	62	13	CHAR	F13.0	IN MICROGRAM ATOMS PER LITER
AMMONIA	73	13	CHAR	F13.0	IN MICROGRAM ATOMS PER LITER