

RCVD: 13 JAN 77

ACCESSION
NUMBER

77-0054

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DATA DOCUMENTATION FORM

43 STATIONS

BL2560-BL2562

U.S. DEPARTMENT OF COMMERCE
NATIONAL CENTER FOR ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

BL2560 L50 FORM APPROVED
BL2561 L133 N.O.B. No. 41-R3651

BL2562 L129

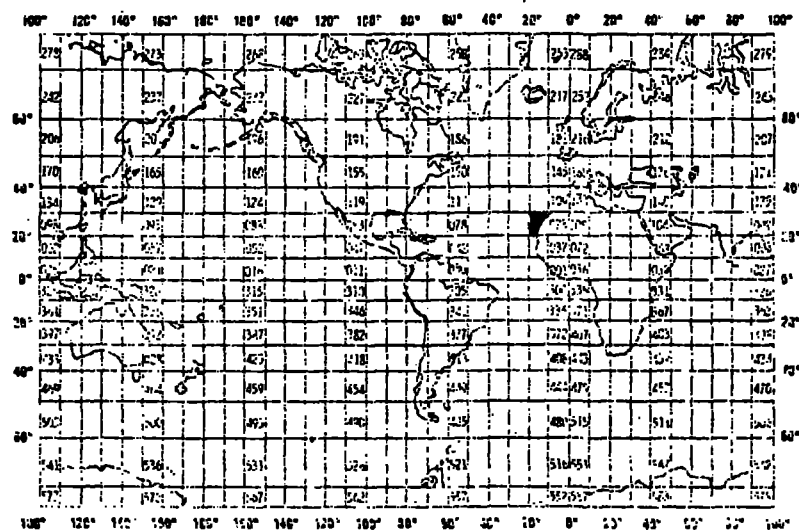
This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, 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.

L01372 L505

NODC TAPE H. 10188

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 COASTAL UPWELLING ECOSYSTEMS ANALYSIS UNIVERSITY OF WASHINGTON DEPARTMENT OF OCEANOGRAPHY WB-10 SEATTLE, WASHINGTON 98195			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED IDOE/CUEA JOINT - I		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT CRUISE 082	
4. PLATFORM NAME(S) ATLANTIS II	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 8 MAR 74 25 MAY 74
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) R. C. DUGDALE BIGELOW LAB FOR OCEAN SCIENCE MCCOWN POINT WEST BARRHARBOR, MAINE 04575 (207)633-5572			

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
LATITUDE	DEGREES, MINUTES, AND TENTHS	SATELLITE NAVIGATION, RADAR, AND LORAN	N/A	N/A
LONGITUDE	DEGREES, MINUTES, AND TENTHS	SATELLITE NAVIGATION, RADAR, AND LORAN	N/A	N/A
DATE	DAY, MONTH, YEAR LOCAL	CALENDAR	N/A	N/A
TIME	HOURS, MINUTES, AND SECONDS LOCAL	SHIP'S CHRONOMETER	N/A	N/A
SONIC DEPTH - 212	METERS	DEPTH RECORDER SUBMARINE	N/A	N/A
INCIDENT PERCENT/LIGHT 199 PENETRATION 0055	PERCENT OF SURFACE LIGHT	QUANTUM METER MODEL LI185 LAMBDA INSTRUMENT CORP.	N/A	N/A
SAMPLE DEPTH 1000	METERS	METER WHEEL	N/A	N/A
FLUOROMETRIC CHLOROPHYLL 5000	UG/L	NISKIN BOTTLE, TURNER MODEL-FLUOROMETER	MODIFICATION OF LORENZEN? METHOD (HARMON, BREITNER, 1976)	N/A
UNESCO CHLOROPHYLL	UG/L	NISKIN BOTTLE, BECKMAN ACTA II	UNESCO METHOD	N/A
PHAEOPHYTIN - 8802	UG/L	NISKIN BOTTLE, BECKMAN ACTA II	MODIFICATION OF UNESCO METHOD (HARMON, BREITNER, 1976)	N/A
PHOSPHATE - 0010	UGAT/L	NISKIN BOTTLE, AUTOANALYZER	PAVLOU, 1972	N/A
SILICATE - 0030	UGAT/L	NISKIN BOTTLE, AUTOANALYZER	PAVLOU, 1972	N/A

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
NITRATE - 0021	UGAT/L	NISKIN BOTTLE AUTOANALYZER	PAVLOU 1972	CORRECTED FOR THE NITRITE CONTRIBUTION WHENEVER NITRITE DATA WERE AVAILABLE
NITRITE - 0020	UGAT/L	NISKIN BOTTLE AUTOANALYZER	PAVLOU 1972	N/A
AMMONIA - 0041	UGAT/L	NISKIN BOTTLE AUTOANALYZER	PAVLOU 1972	N/A
ELECTRON TRANSPORT SYSTEM - 5007	MICRO LITERS OF O ₂ per LITER HOUR	NISKIN BOTTLE BECKMAN ACTA II	PACKARD, T., 1971	N/A
Particulate matter - 8600 TOTAL PARTICLES	COUNTS PER LITER	NISKIN BOTTLE	BIOPHYSICS LASER PARTICLE COUNTER	N/A
Particulate matter - 8600 PARTICLE AREA	SQUARE MICRONS	NISKIN BOTTLE	BIOPHYSICS LASER PARTICLE COUNTER	N/A
Volume of particulate matter - 5011 PARTICLE VOLUME	CUBIC MICRONS	NISKIN BOTTLE	BIOPHYSICS LASER PARTICLE COUNTER	N/A
NITRATE REDUCTASE - 5008	NANOGRAM ATOMS PER LITER PER HOUR	NISKIN BOTTLE BECKMAN ACTA II	EPPLEY, R., J. COATSWORTH AND L. SOLORZANO, 1969.	
ATP CARBON - 8805	MICROGRAMS PER LITER			

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
<i>Particle (suspended)</i> PARTICULATE CARBON - 8610 CARBON 14 UPTAKE <i>Carbon (excreted)</i> CARBON EXCRETION - 8201 506	REFER TO: COASTAL UPWELLING ECOSYSTEMS ANALYSIS DATA REPORT 14 JOINT I CARBON, CHLOROPHYLL, AND LIGHT EXTINCTION R/V ATLANTIS II CRUISE 82 RICHARD T. BARBER AND SUSAN A. HUNTSMAN, MARCH 1975.			76-0744
<i>Particle (suspended)</i> PARTICULATE NITROGEN - 0022	UGAT/L			
NITRATE UPTAKE VELOCITY - 5012	PER HOUR	ROSETTE WITH 30 LITER NISKIN BOTTLES	GUNTER, FLOSS, SIMON 1966.	
AMMONIA UPTAKE VELOCITY - 5013	PER HOUR	AEI MS10-MASS SPECTROMETER	MACISAAC AND DUGDALE 1972.	
RHO NITRATE - No code	UGAT/L/HR	N/A	DUGDALE AND GOERING 1967	PARTICULATE NITROGEN NITRATE UPTAKE VELOCITY
RHO AMMONIA - No code	UGAT/L/HR	N/A	DUGDALE AND GOERING 1967.	PARTICULATE NITROGEN NITRATE UPTAKE VELOCITY

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**

THERE ARE TWO (2) TYPES OF RECORDS, HEADER RECORDS, AND DATA RECORDS.

AN 'H' IN COLUMN ONE (1) DENOTES THE HEADER RECORD. THERE ARE TWO (2) HEADER RECORDS PER STATION.

A 'D' IN COLUMN ONE (1) DENOTES A DATA RECORD. THERE ARE SIX (6) DATA RECORDS PER SAMPLE DEPTH.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

THERE ARE TWO(2) HEADER RECORDS PER STATION WITH SIX (6) DATA RECORDS PER SAMPLE DEPTH.

LOGICAL RECORDS ARE 80 ASCII CHARACTERS LONG WITH A PHYSICAL BLOCK LENGTH OF 256 BYTES.

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

DON BISHOP (206) 543-7242

ADDRESS

UNIVERSITY OF WASHINGTON DEPARTMENT OF OCEANOGRAPHY WB-10

SEATTLE, WASHINGTON 98195

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

☐

10. END OF FILE MARK

☐ OCTAL 17

☒ OCTAL 777

**11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
ORIGINATOR NAME AND SOME KEY SPECIFICATIONS
OF DATA TYPE, VOLUME NUMBER)**

JOINT-I Productivity

8 MAR-25 MAY 1974

9-TRACK, ASC-II, 800 BPI

EVEN PARITY

ATLANTIS-II DATA

12. PHYSICAL BLOCK LENGTH IN BYTES

256 bytes

13. LENGTH OF BYTES IN BITS

8 bits/byte

RECORD FORMAT DESCRIPTION

RECORD NAME HEADER RECORD 1

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	AN 'H' INDICATES A HEADER RECORD
STATION NUMBER	2	6	CHAR	I6	STATION DESIGNATION
DATE	17	9	CHAR	9A1	GMT DATE(DD MMM YY) (NOTE: ' ' DENOTES A BLANK SPACE)
TIME	31	8	CHAR	8A1	GMT TIME (HH:MM:SS)
LATITUDE	44	9	CHAR	9A1	XX XX.X N (NOTE: ' ' DENOTES A BLANK SPACE)
LONGITUDE	56	10	CHAR	10A1	XXX XX.X W (NOTE: ' ' DENOTES A BLANK SPACE)

RECORD FORMAT DESCRIPTION

RECORD NAME HEADER RECORD 2

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	AN 'H' INDICATES HEADER RECORD
STATION NUMBER	2	6	CHAR	I6	STATION DESIGNATION
SURFACE TEMPERATURE	13	10	CHAR	F10.0	DEGREES C
SONIC DEPTH	27	10	CHAR	F10.0	DEPTH TO BOTTOM

RECORD FORMAT DESCRIPTION

DATA RECORD 1

RECORD NAME

1. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
NITRATE REDUCTASE (-4.5 g/l)	24	14	CHAR	F14.0	NG-AT/L/HR
NITRATE	38	12	CHAR	F12.0	IN MICROGRAM ATOMS PER LITER CORRECTED FOR THE NITRITE CONTRIBUTION WHENEVER NO ₂ DATA WERE AVAILABLE.
NITRITE	50	13	CHAR	F13.0	IN MICROGRAM ATOMS PER LITER
AMMONIA	63	13	CHAR	F13.0	IN MICROGRAM ATOMS PER LITER

RECORD FORMAT DESCRIPTION

RECORD NAME DATA RECORD 2

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	12	CHAR	F12.0	SAMPLE DEPTH IN METERS
SILICATE	24	13	CHAR	F13.0	DISSOLVED SILICON IN MICROGRAM ATOMS PER LITER
PHOSPHATE	37	13	CHAR	F13.0	REACTIVE PHOSPHOROUS IN MICROGRAM ATOMS PER LITER
CHLOROPHYLL A UNESCO	50	13	CHAR	F13.0	IN MICROGRAMS PER LITER
CHLOROPHYLL FLUOROMETRIC	63	13	CHAR	F13.0	IN MICROGRAMS PER LITER

RECORD FORMAT DESCRIPTION

RECORD NAME DATA RECORD 3

14. FIELD NAME	15. POSITION FROM - 1 - MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
PHAEOPHYTIN	24	13	CHAR	F13.0	IN MICROGRAMS PER LITER
PARTICULATE CARBON	37	13	CHAR	F13.0	MILLIGRAMS PER CUBIC METER
ATP CARBON	50	13	CHAR	F13.0	MICROGRAMS PER LITER
CARBON 14 UPTAKE	63	13	CHAR	F13.0	MILLIGRAMS PER CUBIC METER PER HOUR

RECORD FORMAT DESCRIPTION

DATA RECORD 4

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
CARBON EXCRETION	24	13	CHAR	F13.0	MILLIGRAMS PER CUBIC METER PER HOUR
PARTICULATE NITROGEN	37	13	CHAR	F13.0	MICROGRAM ATOMS PER LITER
NITRATE UPTAKE VELOCITY	50	14	CHAR	F14.0	PER HOUR
RHO NITRATE <i>NITRATE UPTAKE VELOCITY</i>	64	13	CHAR	F13.0	MICROGRAM ATOMS PER LITER PER HOUR

RECORD FORMAT DESCRIPTION

DATA RECORD 5

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	13	CHAR	FT3.0	SAMPLE DEPTH IN METERS
AMMONIA UPTAKE VELOCITY	24	13	CHAR	F13.0	PER HOUR
RHO AMMONIA	37	13	CHAR	F13.0	MICROGRAM ATOMS PER LITER PER HOUR
ELECTRON TRANSPORT SYSTEM	50	13	CHAR	F13.0	MICRO LITERS OF OXYGEN PER LITER PER HOUR

RECORD FORMAT DESCRIPTION

RECORD NAME DATA RECORD 6

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1	1	CHAR	A1	A 'D' INDICATES A DATA RECORD
LIGHT DEPTH	2	9	CHAR	F9.0	PERCENT INCIDENT LIGHT PENETRATION
DEPTH	11	13	CHAR	F13.0	SAMPLE DEPTH IN METERS
PARTICLE COUNTS	28	13	CHAR	F13.0	TOTAL PARTICLES PER LITER
PARTICLE AREA	41	13	CHAR	F13.0	TOTAL PARTICLE SURFACE AREA IN SQUARE MICRONS PER LITER
PARTICLE VOLUME	54	13	CHAR	F13.0	TOTAL PARTICLE VOLUME IN CUBIC MICRONS PER LITER
SIGMA-T*COUNTS	67	13	CHAR	F13.0	SIGMA-T times PARTICLE COUNTS

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7700054	L501	BL2560	0071	3109	31AN	1974/03/08	082	302462
7700054	L133	BL2561	0071	3109	31AN	1974/03/08	082	302463
7700054	L129	BL2562	0071	3109	31AN	1974/03/08	082	302464
7700054	L505	L01372	0071	3109	31AN	1974/03/08	NULL	302465

(4 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7700054	L501	BL2560	31AN	43	0	74/03/08	74/05/25
7700054	L133	BL2561	31AN	43	0	74/03/08	74/05/25
7700054	L129	BL2562	31AN	43	0	74/03/08	74/05/25
7700054	L505	L01372	31AN	43	0	74/03/08	74/05/25

(4 rows affected)