

DATA DOCUMENTATION FORM

M. 1 179

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

329451 C022
TT6261 F022

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.

DSN = CUEA.AC790205
TAPE# 14941
9 TRK 1600 bpc

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 Dr. C. W. K. Mooers College of Marine Studies, University of Delaware Lewes, DE 19958			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED NSF/IDOE CUEA Joint - II		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT R/V Columbus Iselin Joint - II Leg 1	
4. PLATFORM NAME(S) R/V Iselin	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) USA USA	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 3/15/77 3/31/77
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 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) Mr. Walter R. Johnson (302) 645-4265			

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
Depth	meters	Bissett Berman 9040 CSTD	N/A	N/A
Salinity	0/00	Bissett Berman 9040 CSTD	N/A	Values averaged over 2 meter intervals for both up and down profile
Temperature	°C	Bissett Berman 9040 CSTD	N/A	"
Conductivity	mmhos	Bissett Berman 9049 CSTD	N/A	"
				Missing values of any parameter are denoted by -999.00

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.

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

- 1) Header definition record 1 - "D" col 1, "H" col 2, "1" col 3
 2) Header definition record 2 - "D" col 1, "H" col 2, "2" col 3
 3) Data definition record - "D" col 1, "D" col 2, "1" col 3
 4) Header input record 1 - "I" col 1, "H" col 2, "1" col 3
 5) Header input record 2 - "I" col 1, "H" col 2, "2" col 3
 6) Data input record - "I" col 1, "D" col 2, "1" col 3

See attached document DAM Card Format.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3 Definition cards are the first 3 records of file
 Input data consist of 2 Header records followed by a
 varying number of profile data input cards

See attached partial list.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Mr. Walter R. Johnson (320) 645-4265ADDRESS CMS, Univ. of Delaware P.O. Box 286, Lewes, DE 19958

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD <input 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>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES Byte=Character 4000 characters. <i>4000</i></p> <p>13. LENGTH OF BYTES IN BITS Byte=Character 40 character record 8 bit ASC II</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Header Definition and Data Definition Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Character (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Card Type	1	3	char		"DH1" Definition Header 1
Header Variable	5	3			"STA" Station Number
Header Variable	9	3			"DAT" Date Variable
Header Variable	13	3			"TIM" Time Variable
	16	25			Blank
Card Type	1	3	Char		"DH2" Definition Header 2
Header Var	5	3			"LAT" Latitude Variable
Header Var	9	3			"LON" Longitude Variable
Header Var	13	3			"SDE: Sonic Depth Variable
	16	5			Blank
Card Type	1	3			"DD1" Definition Data 1
Data Var	5	3			"DEP" Depth Var
Data Var	9	3			"SAL" Salinity Var
Data Var	13	3			"TEM: Temperature Var
Data Var	17	3			"CON" Conductivity Var
	20	21			Blank
See Attached Document DAM Card Format					

RECORD FORMAT DESCRIPTION

RECORD NAME Input Data Record

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		
Record Type	1	3			"ID1"
Depth	7	7			F7.2 Depth in meters
Salinity	16	7			F7.2 Salinity in 0/00
Temperature	25	7			F7.2 Temp in °C
Conductivity	34	7			F7.2 Cond in meters
					"Missing" or bad values of Salinity, Temperature, or Conductivity are stored as -999.00

RECORD FORMAT DESCRIPTION

RECORD NAME Header Input Record 1

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(c.f., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Record Type	1	3	Char		"IH1" Header Card 1
Station Number	5	3	"		Cast Number, Consecutive
Month	9	2			3 = March
Day	12	2			Day of Month
Year	15	2			77 = 1977
Hour	18	2			Hour of Day
Minute	21	2			Minute of Hour
Second	24	2			Second of Minute
	26	15			Blank

RECORD FORMAT DESCRIPTION

RECORD NAME Header Input Record 2

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(o.f., b/lr, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Record Type	1	3	Char		"IH2"
	5	2			Latitude Degree I2
	9	4			Latitude Minutes F4.1
	14	1			Latitude [N or S] A1
	16	3			Longitude Degree I3
	20	4			Longitude Minutes F4.1
	25	1			Longitude [E or W] A1
	27	6			Water Depth F6.1
	33	8			Blank

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 (✓)	
Bissett Berman 9040 CSTD	Unknown Instrument	Owned by	RSMAS/Univ. of Miami						

CTD - File Erratta

Profile	Error	Correction
7	Longitude = 76	Longitude = 75
85	Sonic depth 150 (fathoms)	Sonic depth 274 m.

CA[CRD]=f Initiates card entry from card formatted data on file f. f is in the form of device:[uic]filename.extension;version

CARD FORMAT

The first three columns of each card are used for card control. The last 77 columns are used for data. Data on the cards are in free format with one or more blank columns (spaces) separating data entries. The decimal point must be included in all non-integer, non-alpha data entries.

CARD CONTROL

COLUMN 1 is used for card type.

- D for variable definition card
I for initial data card
U for update existing data card

COLUMN 2 is used for data type.

- H for header (station) data
D for data associated with current header (station)

COLUMN 3 is card sequence number (1 through 9).

EXAMPLES

DH1 STA CAS/DAT TIM This card defines header card 1 (cards beginning with IH1 or UH1) to have four entries - station, cast, date, and time - in that order. See the UH1 card for the meaning of the slash (/).

DH2 LAT LON SDE This card defines header card 2 (cards beginning with IH1 or UH1) to have three entries - latitude, longitude, and sonic depth - in that order.

DD1 DEP/TEM SAL O2 This card defines data card 1 (cards beginning with ID1 or UD1) to have four entries - depth, temperature, salinity, and oxygen - in that order. See UD1 card for the meaning of the slash (/).

DD2 PO4 SIO NO3 NO2 NH4 This card defines data card 2 (cards beginning with ID2 or UD2) to have five entries - phosphate, silicate, nitrate, nitrite, and ammonia - in that order.

IH1 12 2 3 8 78 23 30 0 This card initializes a new header record as station 12 cast 2 with date May 8, 1978 and time 23:30:00 (assuming DH1 card has been defined as above). All data cards that

NUT-SUM
NUT-ADRV
HYD
FUN
PEN
SAP
MAD
EJP
BEP
CTR
TDP
RED
NUT
NUT-OP
NUT-FAC

- IH2 21 43 N 17 31.8 W 364 This card enters latitude 21 43.0 N and longitude 17 31.8 W into the current header (station) (assuming DH2 card has been defined as above).
- ID1 10 18.17 36.33 5.67 This card initializes a new data record of the current header (station) with depth 10 temperature 18.17 salinity 26.33 and oxygen 5.67 (assuming DD1 card has been defined as above). All data cards that follow an ID1 card will be entered in this data record until another ID1 card or a UD1 card is encountered.
- ID2 62 1.36 3.78 .59 .13 This card enters phosphate .62 silicate 1.36 nitrate 3.78 nitrite .59 and ammonia .13 into the current data record of the current header (station) (assuming DD2 card has been defined as above).
- UH1 67 2 4 1 78 This card searches the SDF to find station 67 cast 2 and changes date to April 1, 1978. Because the slash (/) followed CAS on the DH1 card, both station and cast must match for an update to occur. If the slash had followed STA or had been omitted, only station name would be required to match. If no station 67 cast 2 can be found in the SDF, a new header (station) is initialized. That is, if no match is found on a UH1 card, the UH1 card has the same effect as an IH1 card.
- UH2 21 36.2 N 17 31.5 W This card has the same effect as an IH2 card.
- UD1 121 15.23 36.1 3.2 This card searches the data records of the current header (station) for a depth of 121 and updates temperature 15.23 salinity 36.1 and oxygen 3.2. The slash in the DD1 card has the same meaning as in the DH1 card. If no depth 121 can be found, a new depth record is initialized in the current header (station). That is, if no match is found on an UD1 card, the UD1 card has the same effect as a ID1 card.
- UD2 55 2 19 4.37 .88 .56 This card has the same effect as an ID2 card.

NUT-SUM
 NUT-APPV
 HYD
 FUN
 PEN
 MAD
 SAP
 EZP
 GTR
 BEP
 RED
 TDP
 NUT
 NUT-FAC
 NUT-OP

CARD NOTES

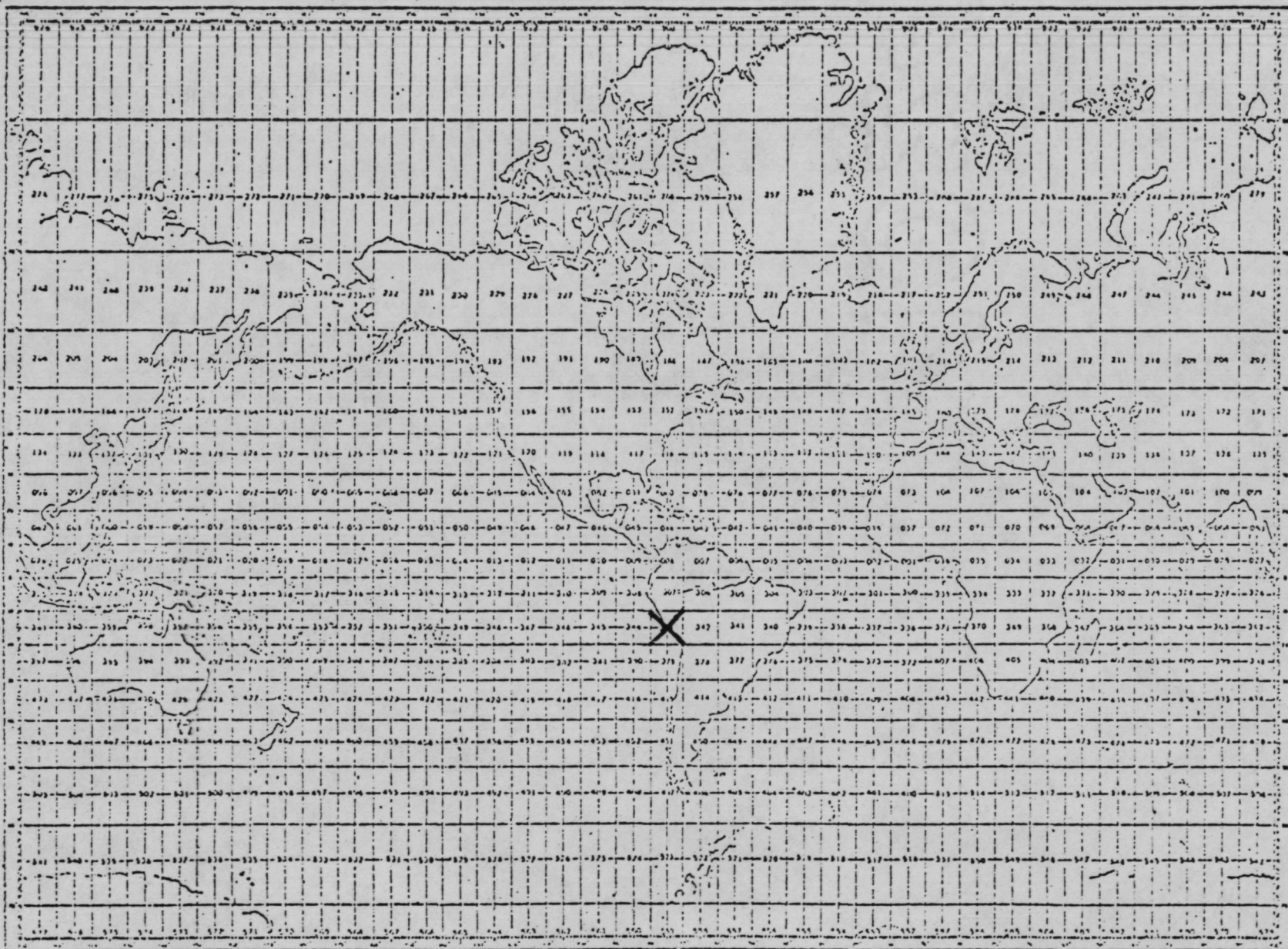
A maximum of 10 data variable entries is allowed per card.

The variables LAT, LON, DAT, and TIM require 3 entries each. For LAT and LON, enter degrees, minutes, and direction. For DAT, enter month, day, and year. For TIM, enter hours, minutes, seconds. See card examples above.

Within a given header (station), it is not advisable to mix initial data cards (cards with I in first column) with update data cards (cards with U in first column). That is after an IH1 (or UH1) card, the following cards should begin with an I (or U) until another IH1 or a UH1 card is encountered.

The form of input data may be changed at any time by issuing a new definition card (a card with a D in column 1).





Please place a large X in the square(s) for which data are documented in attached Data Documentation Form.

Documentation of Processed STD Velocimeter Data

National Oceanographic Data Center

September 1971

Please use this form as a supplement to the NODC "Data Definition Form, General Information."

All items on this form are considered of importance to the archive processing and future use of STD-velocimeter data. In submitting computer processed data, it is especially important to complete the section titled "Reduction-Processing."

A. Instrument - Sensors

1. Instrument - Sensors

- a. Manufacturer Bissett Berman (Plessy)
- b. Model 9040 CSTD
- c. Serial _____ owned by RSMAS/Univ. of Miami
- d. Sensors (The questions asked about each sensor listed may serve as a guide for information to be submitted about other sensors.)

2. Salinity (Compensated Conductivity)

- a. Model
- b. Serial
- c. Date of last calibration

3. Temperature

- a. Model
- b. Serial
- c. Date of last calibration

4. Pressure

- a. Model
- b. Serial
- c. Date of last calibration
- d. If pressure is recorded as depth, what relationship was used to arrive at depth?

5. Sound Velocity

- a. Model
- b. Serial number
- c. Date of last calibration

- d. Is raw calibration data available? Yes _____ No _____
- e. Person to be contacted for calibration information. Dr. John Van Leer
- f. Reference equation used for sound velocity (i.e., Wilson, Greenspan, etc., or variations thereon).

6. Conductivity (if used)

- a. Model
- b. Serial
- c. Date of last calibration

7. Other (Attach a list for other parameters such as ambient light, transmissivity, etc.)

8. Is calibration data for the above sensors available? Yes ___ No ___

9. Have you modified your instrument and/or sensors?

10. Which parameters are affected by the modifications?

11. What is the result of the modification with respect to the accuracy, resolution, and precision of the data?

B. Operational Methods

1. Mode of use

- (a) Platform is affected by pitch and roll which is not decoupled from the package.
- b. Platform is stable or platform motion is decoupled from package.
- c. Unit is freefalling.
- d. Other (describe).

2. Lowering rate (meters/min)

- a. Enter lowering rate in regions of high parameter gradients 25 m/minute
- b. Enter lowering rate in regions of low parameter gradients 25 m/minute

3. Time Response

- a. Unit measures continuously
- (b) Unit measures 1 samples per second
- c. Samples are averages of measurements over _____ time or _____ depth.

4. Power Supply

- a. Power supply is unstabilized _____ Maximum fluctuations + _____ Volts about _____ volts nom
- b. Power supply to the following portions of the system is stabilized.

5. Field Checks (Indicate any operational "Deck" tests routinely made on the system (e.g., ice point tests on temperature sensors, electrical tests, etc.). (Describe)

6. Thermal Environment

- a. Instrument stored in water bath at _____ °C to _____ °C

C. Reduction-Processing

1. Primary Data Output

- a. Strip chart (state scale setting(s))
- b. Paper tape
- c. Magnetic tape
 - (1) Digital
 - (2) Analog

2. Initial Reduction

- a. Down trace only
- b. Down trace and up trace processed
 - (1) Separate
 - (2) Averaged
- c. Multiple lowerings _____ through depth interval _____
- d. Values smoothed against depth. Describe (e.g., running average, etc.) Averaged up and down in 2 meter intervals
- e. Special routines to compensate for "spiking" (describe)
- f. Compression applied to final data record (i.e., vertical spacing, rounding of depth, temperature, salinity, etc.)

3. Corrections

- a. Were corrections applied to final data? Yes
- b. Corrections based on (by parameter)

7900205

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo *from / for*

DATE: May 12, 1986

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVES BRANCH (E/OC11)

F022/C022

<u>Acc #</u>	<u>Ref No.</u>	<u>Stations</u>	<u>Records</u>
7000362	TT6265	78	4,415
7200374	TT6262	48	6,574
7900205	TT6261 ✓	193	3,932 ✓
8500219	TT6266	22	494
8500219	TT6267	85	3,831

DATA PROCESSING BRANCH (E/OC12) XBT's

cc: E/OC1 - I. Perlroth

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

from / for

DATE: May 12, 1986

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

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7200374	TT6262	48	6,574
7900205	TT6261	193	3,932
8500219	TT6266	22	494
8500219	TT6267	85	3,831

DATA PROCESSING BRANCH (E/OC12) XBT's

cc: E/OC1 - I. Perlroth

009994

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

RPS

DATE OF ENTRY: 05/08/86

REFERENCE NUMBER: TT6261 ACCESSION NUMBER: 7900205
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E089 - CUEA STD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 31C5
PLATFORM (COUNTRY AND PLATFORM CODES): 32IC
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: JOINT II, L61
CRUISE START DATE: 03/17/77 CRUISE END DATE: 03/30/77 Press PgDn
PROJECT CODE: 0071 DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 193 NUMBER OF RECORDS: 3,932

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

OCEAN AREA

CODE 1: 61B MEANING: SW Pacific (limit-140 W)
CODE 2: _____ MEANING: _____
CODE 3: _____ MEANING: _____

DINDB TRACK TRANSACTION GENERATED: / /

ACCESSION NO. 7900205

FILETYPE F022

TRACK NO. TT6261

PROJECT IDENTIFICATION FODE/CUEA/
JOINT IT

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS	
ORIG. TAPE								
DUPLICATE TAPE	<u>W12632</u>	<u>8/12/82</u>	<u>JBR</u>	<u>DNODC*</u>	<u>7900205.</u>	<u>1</u>	<u>40</u>	<u>4200</u>
REFORMATTED TAPE								
REFORMATTED DISK	<u>4/18/86</u>	<u>RPS</u>	<u>DNODC*</u>	<u>ISELINOUT.</u>	<u>1</u>	<u>120</u>	<u>224</u>	<u>3932</u>
FIRST MULCHEK								
FINAL MULCHEK								
MPD75 OR F022								
DATA SET FINALIZED								

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7900205	C022	329451	0071	31C5	32IC	1977/03/17	TT6261	309453
7900205	F022	TT6261	0071	31C5	32IC	1977/03/17	JOINT II	309454

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7900205	C022	329451	32IC	193	194	77/03/17	77/03/30
7900205	F022	TT6261	32IC	193	3932	77/03/17	77/03/30

(2 rows affected)

UNIVERSITY OF DELAWARE

LEWES, DELAWARE

19958

COLLEGE OF MARINE STUDIES
LEWES COMPLEX
PHONE: 302-845-4265

June 8, 1979

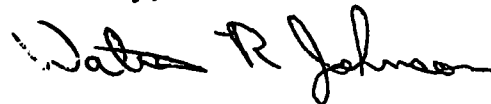
National Oceanic and Atmospheric Administration
National Oceanographic Data Center
Records Section
Rockville, MD 20852

Dear Sirs:

Enclosed is a magnetic tape and the appropriate forms for data submission. The data are part of the NSF/DOE Coastal Upwelling Ecosystems Analysis (CUEA) program data collection. A data report, CUEA Data Report #56 is currently being printed at the Duke University CUEA Program Office, and will be forwarded directly to you from there.

If any problems occur with the tape or with the forms, please contact us.

Sincerely,



Walter R. Johnson

WRJ/phh
Enclosures

cc: Dr. Mooers

7900205

GIVEN TO R. Kuhn
6/28/79

ACCESSION NUMBER

79 ~~0205~~ 0205

DATA DOCUMENTATION FORM

Reid 6/14/79

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

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Tape # 1494/
9TRK 1600 bpi

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 Dr. C. N. K. Mooers College of Marine Studies, University of Delaware Lewes, DE 19958			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED NSF/IDOE CUEA Joint - II		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT R/V Columbus Iselin Joint - II Leg 1	
4. PLATFORM NAME(S) R/V Iselin	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
		USA	USA
		7. FROM: MO/DAY/YR	TO: MO/DAY/YR
		3/15/77	3/31/77
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 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) Mr. Walter R. Johnson (302) 645-4265			

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
Depth	meters	Bisett Berman 9040 CSTD	N/A	N/A
Salinity	0/00	Bisett Berman 9040 CSTD	N/A	Values averaged over 2 meter intervals for both up and down profile
Temperature	°C	Bisett Berman 9040 CSTD	N/A	"
Conductivity	mmhos	Bisett Berman 9049 CSTD	N/A	"
				Missing values of any parameter are denoted by -999.00

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

- 1) Header definition record 1 - "D" col 1, "H" col 2, "1" col 3
- 2) Header definition record 2 - "D" col 1, "H" col 2, "2" col 3
- 3) Data definition record - "D" col 1, "D" col 2, "1" col 3
- 4) Header input record 1 - "I" col 1, "H" col 2, "1" col 3
- 5) Header input record 2 - "I" col 1, "H" col 2, "2" col 3
- 6) Data input record - "I" col 1, "D" col 2, "1" col 3

See attached document DAM Card Format.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3 Definition cards are the first 3 records of file
Input data consist of 2 Header records followed by a
varying number of profile data input cards

See attached partial list.

194 profiles

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Mr. Walter R. Johnson (320) 645-4265

ADDRESS CMS, Univ. of Delaware P.O. Box 286, Lewes, DE 19958

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"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input 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>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>Byte=Character 4000 <i>4200</i> characters.</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>Byte=Character 40 character record</p> <p style="text-align: right;">8 bit ASC II</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Header Definition and Data Definition Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Character (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Card Type	1	3	char		"DH1" Definition Header 1
Header Variable	5	3			"STA" Station Number
Header Variable	9	3			"DAT" Date Variable
Header Variable	13	3			"TIM" Time Variable
	16	25			Blank
Card Type	1	3	Char		"DH2" Definition Header 2
Header Var	5	3			"LAT" Latitude Variable
Header Var	9	3			"LON" Longitude Variable
Header Var	13	3			"SDE: Sonic Depth Variable
	16	5			Blank
Card Type	1	3			"DD1" Definition Data 1
Data Var	5	3			"DEP" Depth Var
Data Var	9	3			"SAL" Salinity Var
Data Var	13	3			"TEM: Temperature Var.
Data Var	17	3			"CON" Conductivity Var
	20	21			Blank
See Attached Document DAM Card Format					

RECORD FORMAT DESCRIPTION

RECORD NAME Input Data Record

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		
Record Type	1	3			"ID1"
Depth	7	7			F7.2 Depth in meters
Salinity	16	7			F7.2 Salinity in 0/00
Temperature	25	7			F7.2 Temp in °C
Conductivity	34	7			F7.2 Cond in meters
					"Missing" or bad values of Salinity, Temperature, or Conductivity are stored as -999.00

RECORD FORMAT DESCRIPTION

RECORD NAME Header Input Record 1

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		
Record Type	1	3	Char		"IH1" Header Card 1
Station Number	5	3	"		Cast Number, Consecutive
Month	9	2			3 = March
Day	12	2			Day of Month
Year	15	2			77 = 1977
Hour	18	2			Hour of Day
Minute	21	2			Minute of Hour
Second	24	2			Second of Minute
	26	15			Blank

RECORD FORMAT DESCRIPTION

RECORD NAME Header Input Record 2

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		
Record Type	1	3	Char		"IH2"
	5	2			Latitude Degree I2
	9	4			Latitude Minutes F4.1
	14	1			Latitude [N or S] A1
	16	3			Longitude Degree I3
	20	4			Longitude Minutes F4.1
	25	1			Longitude [E or W] A1
	27	6			Water Depth F6.1
	33	8			Blank

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 (✓)	
Bissett Berman 9040 CSTD	Unknown Instrument	Owned by	RSMAS/Univ. of Miami						