

VCM535

DATA DOCUMENTATION FORM

ACCESSION
NUMBER

7800319

NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

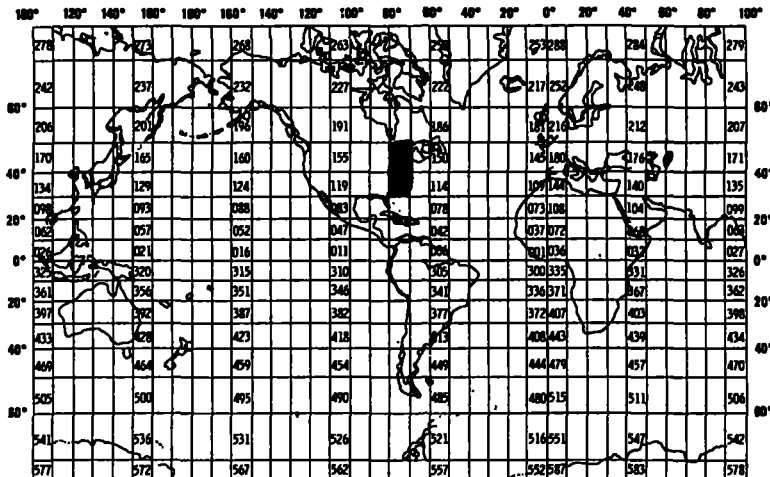
TR2982

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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 <i>Virginia Institute of Marine Sciences Gloucester Point, Virginia 23082</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>BLM</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>BLM 05B</i>	
4. PLATFORM NAME(S) <i>J.W. Fay</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR <i>USA USA</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>11/3/76 11/18/76</i>
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 checked="" type="checkbox"/> NO <input 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) <i>Dr. Gerald L. Engel VIMS Gloucester Pt., Va. 23082</i>			

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)

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 (✓)	

NAME OF DATA FIELD	REPORTING UNIT OR CODE	METHOD OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS INCLUDING MODIFICATIONS AND LABORATORY PROCEDURES	DATA REDUCTION TECHNIQUES WITH LISTING AND AVERAGING
Latitude & Long.	degrees, mins., seconds	Loran C SHEPAD Model LC 101		Program used to convert from Loran C coordinates to latitude & longitude
Altitude	N or S			
Longitude	E or W			
Station time	GMT to nearest tenth of an hr.	Wrist Watch checked daily with WWV		
Water depth	to nearest tenth of a meter	EDO Model 55A Recorder EDO Model 444D/248D Tranceiver		
Water sample depth	to nearest meter	CID Neil Brown MK III		
Surface water temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Surface temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Pressure	Millibars, tens to tenths	Danforth Aneroid Barometer Model 310		
Wet-bulb air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Dry-bulb air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wind direction	Tens of degrees AMD Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind speed	AMOTS	Ship's Anemometer Bendix Model 120/135		
Wave direction	Tens of degrees AMD Code 0877	Ship's compass		
Wave height	1/2 meters AMD Code 1555	Visual estimate		
Swell direction	Tens of degrees AMD Code 0877	Ship's compass		
Swell height	1/2 meters AMD Code 1555	Visual estimate		
Current	AMD Code 4877	Visual estimate		
Cloud type	AMD Codes 0513, 0515, 0509	Visual estimate		

4-1-1-1

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

1. File Header "1" in position 10
2. Sample Header 1 "2" in position 10
3. Terminator for Sample Header 1 Positions 1-10 identical to last sample header, "998" in positions 11-13
4. Sample Header 2 "3" in position 10
5. Terminator for Positions 1-10 identical to the last sample header Sample Header 2 "998" in positions 11-13.
6. Data Record "4" in position 10
7. Terminator for data for Positions 1-10 identical to last data record, "998" in positions 11-13
8. File Terminator Positions 1-10 identical to last data record, "998" in positions 11-13

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

First record is File Header. Following this are Sample Header records 1 & 2, each followed by a Terminator record. Following this are Data Records for that sample followed by Terminator record. Sample headers, terminators, data records, terminator sequence is repeated until final terminator record.

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Gerald L. Engel
ADDRESS Gloucester Point, Virginia

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	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 inch <input checked="" type="checkbox"/> 0.6 inch
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/>
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) VCM536 Virginia Institute of Marine Science Meio Benthos File Label = 'MEIOBN.084.BLM05B'
8. DENSITY <input type="checkbox"/> 200 DPI <input checked="" type="checkbox"/> 1600 DPI <input type="checkbox"/> 556 DPI <input type="checkbox"/> 800 DPI	12. PHYSICAL BLOCK LENGTH IN BYTES 80
	13. LENGTH OF BYTES IN BITS 8

Meio ben

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BITS (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"1" (file header record)
Vessel	11	11	Chars	11A1	Vessel name (left-justified)
Cruise	22	6	Chars	6A1	Originator's cruise identify (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- ending year, month, day (left-justified)
Senior scientist	45	19	Chars	19A1	Investigators & Institution responsible for data
Investigator	64	17	Chars	17A1	

RECORD FORMAT DESCRIPTION

RECORD NAME SAMPLE HEADER 1

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN PAGES (e.g. bfr, bytes)	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"2" (first sample header record)
Sequence	11	3	Chars	A3	Sequence of this record type within sample
Lab sample no.	14	5	Chars	5A1	Sample identifier
Latitude	19	6	Bytes	3I2	Degrees, minutes, seconds
Lat hem	25	1	Char	A1	Hemisphere "N" or "S"
Longitude	26	7	Bytes	I3,2I2	Degrees, minutes, seconds
Long hem	33	1	Char	A1	Hemisphere "E" or "W"
Time	34	3	Byte	F3.1*	Sample time (GMT to nearest tenth of an hour)
Date	37	8	Bytes	2(I2,A1)I2	Sample date in form xx/xx/xx (year, month, day)
WDepth	45	5	Bytes	F5.1*	Water depth (to nearest tenth of a meter)
Gear	50	1	Bytes	I1	Gear: 1=0.1 Smith-McIntyre grab 2=Shipek 3=Gravity corer 4=Box corer 5=Vibro corer 6=Ewing corer 7=Hydrostatically damped core 8=0.2 m ² VanVeen grab
Replicate	51	2	Bytes	I2	Core number
Sieve	53	4	Bytes	F4.3*	Sieve Size (mm, 3 decimals)
Navigation	57	2	Bytes	I2	Navigation: 01=Loran (mixed or unspecified) 02=Radar and/or fixes 03=Raydist without complications 04=Raydist with errors, drift, etc. 05=Satellite 06=Omega 07=Loran A only 08=Loran C only
Area	59	4	Bytes	F4.2*	Surface area of sample: (cm ² , 2 decimals)
PDepth	63	3	Bytes	F3.1*	Depth of sample penetration: (cm, 1 decimal)
Total Biomass	66	5	Bytes	F5.4*	Total biomass (micrograms/6.25 & ten thousandths)
Biomass	71	5	Bytes	F5.4*	Biomass - nematoda 2 ⁵ Harpactic (micrograms/6.25 cm ² & ten thousandths)
Blank	76	5	Bytes	5X	Blank

*Decimal place IMPLIED: "period" is not

RECORD FORMAT DESCRIPTION

RECORD NAME

14. RECORD NAME	15. POSITION FROM -1 MEASURED IN -1 (e.g., 010, 0100)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2" Terminators					
Ident	1	10	Bytes	A3,3I2,A1	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"084" (constant)
File Date	4	6	Bytes	3I2	Year,month,day of file generation
Record Type	10	1	Char	A1	"3" (second sample header record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	SA1	Sample number identifier
Barometer	19	3	Bytes	F3.1*	Pressure in millibars
Wet Bulb	22	4	Bytes	F4.1*	Air temperature; degrees Celsius
Dry Bulb	26	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wind Direction	30	2	Bytes	I2	WHO code 0877; tens of degrees
Wind Speed	32	2	Bytes	I2	Knots
Wave Direction	34	2	Bytes	I2	WHO code 0877; tens of degrees
Wave Height	36	1	Byte	I1	WHO code 1555
Swell Direction	37	2	Bytes	I2	WHO code 0877; tens of degrees
Swell Height	39	1	Byte	I1	WHO code 1555
Water	40	2	Bytes	I2	WHO code 4677
Cloud type	42	3	Bytes	I3	WHO codes 0513,0515,0509
Cloud Cover	45	1	Bytes	I1	WHO code 2700; percent of cloud cover
Visibility	46	1	Byte	I1	WHO code 4300
Blank	47	1	Byte	1x	Blank
Turbidity	48	1	Byte	I1	Turbidity measurement technique (see attached codes)
Wave Period	49	2	Bytes	I2	Seconds
Swell Period	51	2	Bytes	I2	Seconds
Sea SFC Temp	53	3	Bytes	F3.1*	Sea surface temperature degrees celsius
Blank	56	25	Bytes	25X	Blank

*Decimal place is IMPLIED; "period" is not present

RECORD FORMAT DESCRIPTION

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		
<u>Record Type "3" Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as sample header record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>Data Record</u>					
File type	1	3	Chars	A3	"084" (constant)
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Char	A1	"4" (data record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	A1	Sample identifier
Replicate	19	2	Chars	A2	Core number
Species	21	12	Chars	10A1	Species (NODC code)
Count	33	6	Bytes	I5	Count (number of individuals)
Blank	38	41	Bytes	41X	Blank
<u>Data Record Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>File Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
*Decimal place is IMPLIED: "period" is not present					

NAVIGATION:

- 01 = Loran (mixed or unspecified)
- 02 = Radar and/or fixes
- 03 = Raydist without complications
- 04 = Raydist with errors, drifting, etc.
- 05 = Satellite
- 06 = Omega
- 07 = Loran A only
- 08 = Loran C only

TURBIDITY MEASUREMENT TECHNIQUE

- 1 = Turbidometer; in JTU
- 2 = Transmissometer; in percent of light transmission over a 10 cm. path
- 3 = Fluorometer; suspended solids calibration
- 4 = Nephelometer

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7800319

- 1) File Type: F084
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR2982

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7800319

TRACK NO(s): TR2982

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM535	SL	80	80	9-tv 1600 BPI EBCDIC	
Duplicate	W10062	SL	80	4000	9-tv 1600 BPI ASCII	
Reformatted						
First User						
Final User						

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7800319/TR2982

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	2/24/83	88P	VC M535	3	80	80	
QUADI/SCAN TAPE	2/24/83	88P	W10062	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

PDF A: 4: 14

ACCESSION
NUMBER

78-0319

DATA DOCUMENTATION FORM

VCM 536

TR2983

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-R-2651

'MEIOBN. 084. BLM06B'

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A. ORIGINATOR IDENTIFICATION

rec'd 3/31/78

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					
Virginia Institute of Marine Science Gloucester Point, Virginia 23062					
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT			
BLM		BLM06B			
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR 7. DATES			
H.J.W. Fay	Ship	NATIONALITY(IES)			
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
		H.J.W. Fay	Tracor Marine	02/04/77 03/06/77	02/17/77 03/13/77
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.			
9. ARE DATA IN A NATIONAL PROGRAM (ONP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN 1114-1) Dr. Gerald L. Engel Va. Institute of Marine Science Gloucester Pt., Va. 23062 804-442-2111					

44 5 - 4 4-11 (3-2)

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

1. File Header "1" in position 10
2. Sample Header 1 "2" in position 10
3. Terminator for Sample Header 1 Positions 1-10 identical to last sample header, "998" in positions 11-13
4. Sample Header 2 "3" in position 10
5. Terminator for Sample Header 2 Positions 1-10 identical to the last sample header "998" in positions 11-13.
6. Data Record "4" in position 10
7. Terminator for data for Positions 1-10 identical to last data record, "998" in positions 11-13
8. File Terminator Positions 1-10 identical to last data record, "998" in positions 11-13

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

First record is File Header. Following this are Sample Header records 1 & 2, each followed by a Terminator record. Following this are Data Records for that sample followed by Terminator record. Sample headers, terminators, data records, terminator sequence is repeated until final terminator record.

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Gerald L. Engel
ADDRESS Gloucester Point, Virginia

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 type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 0.6 inch</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 <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" 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>VCM536</p> <p>Virginia Institute of Marine Science</p> <p>Meio Benthos</p> <p>File Label = 'MEIOBN.084.BLM06B'</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input 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>80</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

Meio ben

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"1" (File header record)
Vessel	11	11	Chars	11A1	Vessel name (left-justified)
Cruise	22	6	Chars	6A1	Originator's cruise identify (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- ending year, month, day (left-justified)
Senior scientist	45	19	Chars	19A1	Investigators & Institution responsible for data
Investigator	64	17	Chars	17A1	

RECORD FORMAT DESCRIPTION

RECORD NAME SAMPLE HEADER 1

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"2" (first sample header record)
Sequence	11	3	Chars	A3	Sequence of this record type within sample
Lab sample no.	14	5	Chars	5A1	Sample identifier
Latitude	19	6	Bytes	3I2	Degrees, minutes, seconds
Lat hem	25	1	Char	A1	Hemisphere "N" or "S"
Longitude	26	7	Bytes	I3,2I2	Degrees, minutes, seconds
Lon hem	33	1	Char	A1	Hemisphere "E" or "W"
Time	34	3	Byte	F3.1*	Sample time (GMT to nearest tenth of an hour)
Date	37	8	Bytes	2(I2,A1)I2	Sample date in form xx/xx/xx (year, month, day)
WDepth	45	5	Bytes	F5.1*	Water depth (to nearest tenth of a meter)
Gear	50	1	Bytes	I1	Gear: 1=0.1 Smith-McIntyre grab 2=Shipek 3=Gravity corer 4=Box corer 5=Vibro corer 6=Ewing corer 7=Hydrostatically damped core 8=0.2 m ² VanVeen grab
Replicate	51	2	Bytes	I2	Core number
Sieve	53	4	Bytes	F4.3*	Sieve Size (mm, 3 decimals)
Navigation	57	2	Bytes	I2	Navigation: 01=Loran (mixed or unspecified) 02=Radar and/or fixes 03=Raydist without complications 04=Raydist with errors, drifts, etc. 05=Satellite 06=Omega 07=Loran A only 08=Loran C only
Area	59	4	Bytes	F4.2*	Surface area of sample: (Cm ² , 2 decimals)
PDepth	63	3	Bytes	F3.1*	Depth of sample penetration: (Cm, 1 decimal)
Total Biomass	66	5	Bytes	F5.4*	Total biomass (micrograms/6.25 & ten thousandths)
Biomass	71	5	Bytes	F5.4*	Biomass - nematoda & Harpactic (micrograms/6.25 cm ² & ten thousandths)
Blank	76	5	Bytes	5X	Blank

*Decimal place IMPLIED: "period" is not printed

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM 1 MEASURED IN DECADES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2" Terminators					
Ident	1	10	Bytes	A3,3I2,A1	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"084" (constant)
File Date	4	6	Bytes	3I2	Year,month,day of file generation
Record Type	10	1	Char	A1	"3" (second sample header record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	SA1	Sample number identifier
Barometer	19	3	Bytes	F3.1*	Pressure in millibars
Dry Bulb	22	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wet Bulb	26	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wind Direction	30	2	Bytes	I2	WHO code 0877; tens of degrees
Wind Speed	32	2	Bytes	I2	Knots
Wave Direction	34	2	Bytes	I2	WHO code 0877; tens of degrees
Wave Height	36	1	Byte	I1	WHO code 1555
Swell Direction	37	2	Bytes	I2	WHO code 0877; tens of degrees
Swell Height	39	1	Byte	I1	WHO code 1555
Weather	40	2	Bytes	I2	WHO code 4677
Cloud type	42	3	Bytes	I3	WHO codes 0513,0515,0509
Cloud Cover	45	1	Bytes	I1	WHO code 2700; percent of cloud cover
Visibility	46	1	Byte	I1	WHO code 4300
Blank	47	1	Byte	1x	Blank
Turbidity	48	1	Byte	I1	Turbidity measurement technique (see attached codes)
Wave Period	49	2	Bytes	I2	Seconds
Swell Period	51	2	Bytes	I2	Seconds
Sea SFC Temp	53	3	Bytes	F3.1*	Sea surface temperature degrees celsius
Blank	56	25	Bytes	25X	Blank

*Decimal place is IMPLIED; "period" is not present

RECORD FORMAT DESCRIPTION

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		
<u>Record Type "3" Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as sample header record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>Data Record</u>					
File type	1	3	Chars	A3	"084" (constant)
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Char	A1	"4" (data record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	A1	Sample identifier
Replicate	19	2	Chars	A2	Core number
Species	21	12	Chars	10A1	Species (NODC code)
Count	33	6	Bytes	I5	Count (number of individuals)
Blank	38	41	Bytes	41X	Blank
<u>Data Record Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>File Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank

*Decimal place is IMPLIED: "period" is not present

NAVIGATION:

- 01 = Loran (mixed or unspecified)
- 02 = Radar and/or fixes
- 03 = Raydist without complications
- 04 = Raydist with errors, drifting, etc.
- 05 = Satellite
- 06 = Omega
- 07 = Loran A only
- 08 = Loran C only

TURBIDITY MEASUREMENT TECHNIQUE

- 1 = Turbidometer; in JTU
- 2 = Transmissometer; in percent of light transmission over a 10 cm. path
- 3 = Fluorometer; suspended solids calibration
- 4 = Nephelometer

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.

BLM06B, BLM06W

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 (✓)	
Neil Brown Inst. CTD MK III.	Jan., 1977	✓			✓				
Beckman Minds D.C. Sensor	Jan., 1977	✓			✓				
Guildline Autosac MCD8400	Jan., 1977	✓			✓				

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7800319

1) File Type: F084

2) Project Ident.: VIMS-OCS

3) Track Nos.: TR2983

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7800319

TRACK NO(s): TR2983

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCN536	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10162	SL	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User						
Final User						

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	3/21/83	818R	VC M536	3	80	80	
QUADI/SCAN TAPE	3/21/83	818R	W10162	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

DATA DOCUMENTATION FORM

ACCESSION
NUMBER

78-0319

VCM 537

TFR 2984

NOAA FORM 24-13
(6-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.N.B. No. 41-R2651

'MELOBN. 084. BLM07B'

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

rec'd 3/31/78

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

Virginia Institute of Marine Science
Gloucester Point, Virginia 230622. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH
DATA WERE COLLECTED

BLM

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

BLM07B

4. PLATFORM NAME(S)

H.J.W. Fay

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

Ship

6. PLATFORM AND OPERATOR
NATIONALITY(IES)H.J.W.
FayTracor
Marine

7. DATES

FROM MO/DAY/YR TO MO/DAY/YR

05/30/77

06/05/77

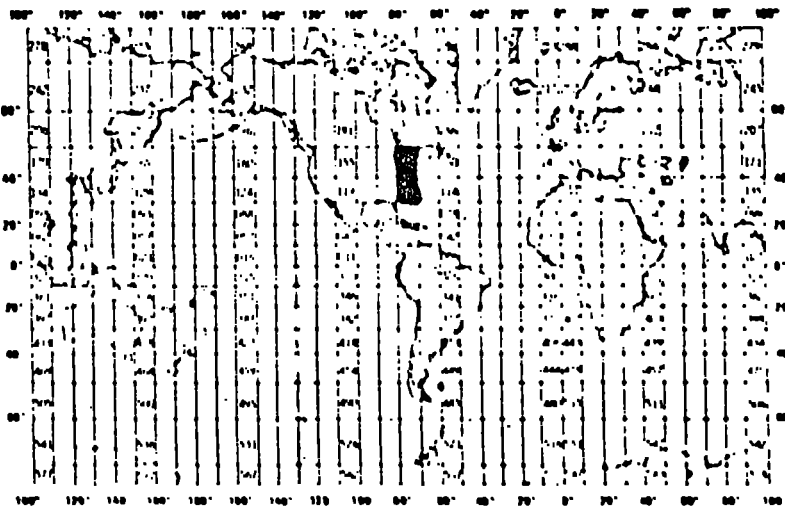
8. ARE DATA PROPRIETARY?

☒ NO ☐ YESIF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA

9. ARE DATA DECLARED NATIONAL
PROGRAM (ONP)?I.E., SHOULD THEY BE INCLUDED IN WORLD
DATA CENTERS HOLDINGS FOR INTERNA-
TIONAL EXCHANGE?☒ NO ☐ YES ☐ PART (SPECIFY BELOW)10. PERSON TO WHOM INQUIRIES CONCERNING
DATA SHOULD BE ADDRESSED WITH TELE-
PHONE NUMBER (AND ADDRESS IF OTHER
THAN IN U.S.)Dr. Gerald L. Engel
Va. Institute of Marine Science
Gloucester Pt., Va. 23062

804-642-2111



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
Latitude & Long.	Degrees, mins., seconds	Loran C SIMRAD Model LC 101		Program used to convert from Loran C coordinates to Latitude & Longitude
Latitudinal Hemisphere	N or S			
Longitudinal Hemisphere	E or W			
Station time	GMT to nearest tenth of an hr.	Wrist Watch checked daily with WWV		
Water depth	to nearest tenth of a meter	EPC Model 4600 Recorder ORE 12KH ₂ Transceiver		
Water sample depth	to nearest meter	CTD Neil Brown MK III		
Surface water temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Sediment temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Barometric pressure	Millibars, tens to tenths	Danforth Aneroid Barometer Model 310		
Dry-bulb air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wet-bulb air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wind direction	Tens of degrees WMO Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind Speed	Knots	Ship's Anemometer Bendix Model 120/135		
Wave direction	Tens of degrees WMO Code 0877	Ship's Compass		
Wave height	1/2 meters WMO Code 1555	Visual estimate		
Swell direction	Tens of degrees WMO Code 0877	Ship's compass		
Swell height	1/2 meters WMO Code 1555	Visual estimate		
Weather	WMO Code 4677	Visual estimate		
Cloud type	WMO Codes 0113, 0515, 0509	Visual estimate		

2. 4. 0. 22. 4. 1. 1 - 0. 1

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

1. File Header "1" in position 10
2. Sample Header 1 "2" in position 10
3. Terminator for Sample Header 1 Positions 1-10 identical to last sample header, "999" in positions 11-13
4. Sample Header 2 "3" in position 10
5. Terminator for Sample Header 2 Positions 1-10 identical to the last sample header "999" in positions 11-13.
6. Data Record "4" in position 10
7. Terminator for data for Positions 1-10 identical to last data record, "999" in position 11-13
8. File Terminator Positions 1-10 identical to last data record, "999" in positions 11-13

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

First record is File Header. Following this are Sample Header records 1 & 2, each followed by a Terminator record. Following this are Data Records for that sample followed by Terminator record. Sample headers, terminators, data records, terminator sequence is repeated until final terminator record.

3. ATTRIBUTES AS EXPRESSED IN

☒ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Gerald L. Engel
ADDRESS Gloucester Point, Virginia

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 type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input checked="" type="checkbox"/> 0.6 inch</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>VCM537</p> <p>Virginia Institute of Marine Science</p> <p>Meio Benthos</p> <p>File Label = 'MEIOBN.084.BLM07B'</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>80</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"1" (File header record)
Vessel	11	11	Chars	11A1	Vessel name (left-justified)
Cruise	22	6	Chars	6A1	Originator's cruise identify (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- ending year, month, day (left-justified)
Senior scientist	45	19	Chars	19A1	Investigators & Institution responsible for data
Investigator	64	17	Chars	17A1	

RECORD FORMAT DESCRIPTION

RECORD NAME SAMPLE HEADER 1

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"2" (first sample header record)
Sequence	11	3	Chars	A3	Sequence of this record type within sample
Lab sample no.	14	5	Chars	5A1	Sample identifier
Latitude	19	6	Bytes	3I2	Degrees, minutes, seconds
Lat hem	25	1	Char	A1	Hemisphere "N" or "S"
Longitude	26	7	Bytes	I3,2I2	Degrees, minutes, seconds
Lon hem	33	1	Char	A1	Hemisphere "E" or "W"
Time	34	3	Byte	F3.1*	Sample time (GMT to nearest tenth of an hour)
Date	37	8	Bytes	2(I2,A1)I2	Sample date in form 'xx/xx/xx' (year, month, day)
WDepth	45	5	Bytes	F5.1*	Water depth (to nearest tenth of a meter)
Gear	50	1	Bytes	I1	Gear: 1=0.1 Smith-McIntyre grab 2=Shipek 3=Gravity corer 4=Box corer 5=Vibro corer 6=Ewing corer 7=Hydrostatically damped corer 8=0.2 m ² VanVeen grab
Replicate	51	2	Bytes	I2	Core number
Sieve	53	4	Bytes	F4.3*	Sieve Size (mm, 3 decimals)
Navigation	57	2	Bytes	I2	Navigation: 01=Loran (mixed or unspecified) 02=Radar and/or fixes 03=Raydist without complications 04=Raydist with errors, drift, etc 05=Satellite 06=Omega 07=Loran A only 08=Loran C only
Area	59	4	Bytes	F4.2*	Surface area of sample: (Cm ² , 2 decimals)
PDepth	63	3	Bytes	F3.1*	Depth of sample penetration: (Cm, 1 decimal)
Total Biomass	66	5	Bytes	F5.4*	Total biomass (micrograms/6.25 & ten thousandths)
Biomass	71	5	Bytes	F5.4*	Biomass - nematoda & Harpacticoid (micrograms/6.25 cm ² & ten thousandths)
Blank	76	5	Bytes	5X	Blank

*Decimal place IMPLIED: "period" is not printed

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN DATES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2" Terminators					
Ident	1	10	Bytes	A3,3I2,A1	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"084" (constant)
File Date	4	6	Bytes	3I2	Year,month,day of file generation
Record Type	10	1	Char	A1	"3" (second sample header record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	5A1	Sample number identifier
Barometer	19	3	Bytes	F3.1*	Pressure in millibars
Dry Bulb	22	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wet Bulb	26	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wind Direction	30	2	Bytes	I2	WHO code 0877; tens of degrees
Wind Speed	32	2	Bytes	I2	Knots
Wave Direction	34	2	Bytes	I2	WHO code 0877; tens of degrees
Wave Height	36	1	Byte	I1	WHO code 1555
Swell Direction	37	2	Bytes	I2	WHO code 0877; tens of degrees
Swell Height	39	1	Byte	I1	WHO code 1555
Other	40	2	Bytes	I2	WHO code 4677
Cloud type	42	3	Bytes	I3	WHO codes 0513,0515,0509
Cloud Cover	45	1	Bytes	I1	WHO code 2700; percent of cloud cover
Visibility	46	1	Byte	I1	WHO code 4300
Blank	47	1	Byte	1x	Blank
Turbidity	48	1	Byte	I1	Turbidity measurement technique (see attached codes)
Wave Period	49	2	Bytes	I2	Seconds
Swell Period	51	2	Bytes	I2	Seconds
Sea SFC Temp	53	3	Bytes	F3.1*	Sea surface temperature degrees celsius
Blank	56	25	Bytes	25X	Blank
*Decimal place is IMPLIED; "period" is not present					

*Decimal place is IMPLIED; "period" is not present

RECORD FORMAT DESCRIPTION

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		
Record Type "3" Terminator					
Ident	1	10	Bytes	A3,3I2,A1	Same as sample header record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
Data Record					
File type	1	3	Chars	A3	"084" (constant)
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Char	A1	"4" (data record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	A1	Sample identifier
Replicate	19	2	Chars	A2	Core number
Species	21	12	Chars	10A1	Species (NODC code)
Count	33	6	Bytes	I5	Count (number of individual)
Blank	38	41	Bytes	41X	Blank
Data Record Terminator					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
File Terminator					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
*Decimal place is IMPLIED: "period" is not present					

*Decimal place is IMPLIED: "period" is not present

NAVIGATION:

- 01 = Loran (mixed or unspecified)
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- 03 = Raydist without complications
- 04 = Raydist with errors, drifting, etc.
- 05 = Satellite
- 06 = Omega
- 07 = Loran A only
- 08 = Loran C only

TURBIDITY MEASUREMENT TECHNIQUE

- 1 = Turbidometer; in JTU
- 2 = Transmissometer; in percent of light transmission over a 10 cm. path
- 3 = Flourometer; suspended solids calibration
- 4 = Nephelometer

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.

BLM07B, BLM07W

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 (✓)	
Neil Brown Inst. CTD MK.III.	May, 1977	✓			✓				
Berkman Minds D.O. Sensor	May, 1977	✓			✓				
Guildline Autosac MOD 8400	May, 1977	✓			✓				

DATE:

TO: OC12FROM: OC13SUBJECT: Error Correction in Processing of Data Set - Accession # 7800319

- 1) File Type: F084
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR2984

I. Error Corrections as reported to Principal Investigator:

ErrorCorrection Completed (Check)

II. Additional error corrections:

ErrorCorrection Completed (Check)

III. Processor Name: _____

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7800319/TR2984

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	3/16/83	800	UCM537	3	80	80	
QUADI/SCAN TAPE	3/16/83	800	W10179	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7800319

TRACK NO(s): TR2984

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM537	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10179	SL -	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User						
Final User						

DDF # 4:14
DATA DOCUMENTATION FORMACCESSION
NUMBER

78-0319

VCM 538 TR2985

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

'ME10BN.084,BLM08B'

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

Rec'd 3/31/78

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			
Virginia Institute of Marine Science Gloucester Point, Virginia 23062			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
BLM		BLM08B	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
H.J.W. Fay	Ship	PLATFORM OPERATOR	FROM MO, DAY, YR TO MO, DAY, YR
		H.J.W. Fay Marine	08/03/77 08/17/77
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 MAJDDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM 1) Dr. Gerald L. Engel Va. Institute of Marine Science Gloucester Pt., Va. 23062 804-642-2111			

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
Latitude & Long	Degrees, mins., seconds	Loran C SIMRAD Model LC 101		Program used to convert from Loran C coordinates to latitude & longitude
Latitudinal hemis.	N or S			
Longitudinal Hemisphere	E or W			
Station time	GMT to nearest tenth of an hr.	Wrist Watch checked daily with WWV		
Water depth	to nearest tenth of a meter	EDO Model 55A Recorder EDO Model 444 Tranceiver		
Water sample depth	to nearest meter	CTD Neil Brown MK III		
Surface water temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Sediment temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Barometric pressure	Millibars, tens to tenths	Danforth Aneroid Barometer Model 310		
Dry-bulb air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wet-bulb air temperature	°C to nearest tenth	Ship's Anemometer Bendix Model 120/135		
Wind direction	Tens of degrees WMO Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind Speed	Knots	Ship's compass		
Wave direction	Tens of degrees WMO Code 0877	Visual estimate		
Wave height	1/2 meters WMO Code 1555	Visual estimate		
Swell direction	Tens of degrees WMO Code 0877	Ship's compass		
Swell height	1/2 meters WMO Code 1555	Visual estimate		
Weather	WMO Code 4877	Visual estimate		
Cloud type	WMO Codes 0513, 0515, 0509	Visual estimate		

19. 2. 1944

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

1. File Header "1" in position 10
2. Sample Header 1 "2" in position 10
3. Terminator for Sample Header 1 Positions 1-10 identical to last sample header, "998" in positions 11-13
4. Sample Header 2 "3" in position 10
5. Terminator for Sample Header 2 Positions 1-10 identical to the last sample header "999" in positions 11-13.
6. Data Record "4" in position 10
7. Terminator for data for Positions 1-10 identical to last data record, "998" - position 11-13
8. File terminator Positions 1-10 identical to last data record, "999" in positions 11-13

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

First record is File Header. Following this are Sample Header records 1 & 2, each followed by a Terminator record. Following this are Data Records for that sample followed by Terminator record. Sample headers, terminators, data records, terminator sequence is repeated until final terminator record.

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Gerald L. Engel
ADDRESS Gloucester Point, Virginia

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 type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 0.6 inch</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>VCMS38 Virginia Institute of Marine Science Meio Benthos File Label = 'MEIOBN.084.BLM08B'</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 356 BPI</p> <p><input type="checkbox"/> 800 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 80</p> <p>13. LENGTH OF BYTES IN UNITS 8</p>

Meio ben

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"1" (File header record)
Vessel	11	11	Chars	11A1	Vessel name (left-justified)
Cruise	22	6	Chars	6A1	Originator's cruise identify (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- ending year, month, day (left-justified)
Senior scientist	45	19	Chars	19A1	Investigators & Institution responsible for data
Investigator	64	17	Chars	17A1	

RECORD FORMAT DESCRIPTION

RECORD NAME SAMPLE HEADER 1

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Chars	A3	"084" file type
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Chars	A1	"2" (first sample header record)
Sequence	11	3	Chars	A3	Sequence of this record type within sample
Lab sample no.	14	5	Chars	5A1	Sample identifier
Latitude	19	6	Bytes	3I2	Degrees, minutes, seconds
Lat hem	25	1	Char	A1	Hemisphere "N" or "S"
Longitude	26	7	Bytes	I3,2I2	Degrees, minutes, seconds
Lon hem	33	1	Char	A1	Hemisphere "E" or "W"
Time	34	3	Byte	F3.1*	Sample time (GMT to nearest tenth of an hour)
Date	37	8	Bytes	2(I2,A1)I2	Sample date in form xx/xx/xx (year, month, day)
WDepth	45	5	Bytes	F5.1*	Water depth (to nearest tenth of a meter)
Gear	50	1	Bytes	I1	Gear: 1=0.1 Smith-McIntyre grab 2=Shipek 3=Gravity corer 4=Box corer 5=Vibro corer 6=Ewing corer 7=Hydrostatically damped corer 8=0.2 m ² VanVeen grab
Replicate	51	2	Bytes	I2	Core number
Sieve	53	4	Bytes	F4.3*	Sieve Size (mm, 3 decimals)
Navigation	57	2	Bytes	I2	Navigation: 01=Loran (mixed or unspecified) 02=Radars and/or fixes 03=Raydist without complications 04=Raydist with errors, drift, etc 05=Satellite 06=Omega 07=Loran A only 08=Loran C only
Area	59	4	Bytes	F4.2*	Surface area of sample: (Cm ² , 2 decimals)
Depth	63	3	Bytes	F3.1*	Depth of sample penetration: (Cm, 1 decimal)
Total Biomass	66	5	Bytes	F5.4*	Total biomass (micrograms/6.2 & ten thousandths)
Biomass	71	5	Bytes	F5.4*	Biomass - nematoda & Harpactic (micrograms/6.25 cm ² & ten thousandths)
Blank	76	5	Bytes	5X	Blank

*Decimal place IMPLIED: "period" is not

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN BITS (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2" Terminators					
Ident	1	10	Bytes	A3,3I2,A1	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"084" (constant)
File Date	4	6	Bytes	3I2	Year,month,day of file generation
Record Type	10	1	Char	A1	"3" (second sample header record)
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	5A1	Sample number identifier
Barometer	19	3	Bytes	F3.1*	Pressure in millibars
Dry Bulb	22	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wet Bulb	26	4	Bytes	F4.1*	Air temperature; degrees Celsius
Wind Direction	30	2	Bytes	I2	WMO code 0877; tens of degrees
Wind Speed	32	2	Bytes	I2	Knots
Wave Direction	34	2	Bytes	I2	WMO code 0877; tens of degrees
Wave Height	36	1	Byte	I1	WMO code 1555
Swell Direction	37	2	Bytes	I2	WMO code 0877; tens of degrees
Swell Height	39	1	Byte	I1	WMO code 1555
Weather	40	2	Bytes	I2	WMO code 4677
Cloud type	42	3	Bytes	I3	WMO codes 0513,0515,0509
Cloud Cover	45	1	Bytes	I1	WMO code 2700; percent of cloud cover
Visibility	46	1	Byte	I1	WMO code 4300
Blank	47	1	Byte	1x	Blank
Turbidity	48	1	Byte	I1	Turbidity measurement technique (see attached codes)
Wave Period	49	2	Bytes	I2	Seconds
Swell Period	51	2	Bytes	I2	Seconds
Sea SFC Temp	53	3	Bytes	F3.1*	Sea surface temperature degrees celsius
Blank	56	25	Bytes	25X	Blank

*Decimal place is IMPLIED; "period" is not present

RECORD FORMAT DESCRIPTION

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		
<u>Record Type "3" Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as sample header reco:
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>Data Record</u>					
File type	1	3	Chars	A3	"084" (constant)
File date	4	6	Bytes	3I2	Year, month, day of file generation
Record type	10	1	Char	A1	"4" (data record).
Sequence	11	3	Bytes	I3	Sequence of this record type within sample
Sample	14	5	Chars	A1	Sample identifier
Replicate	19	2	Chars	A2	Core number
Species	21	12	Chars	10A1	Species (NODC code)
Count	33	6	Bytes	I5	Count (number of individual
Blank	38	41	Bytes	41X	Blank
<u>Data Record Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
<u>File Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"999" (constant)
Blank	14	67	Bytes	67X	Blank
*Decimal place is IMPLIED: "period" is not present					

NAVIGATION:

- 01 = Loran (mixed or unspecified)
- 02 = Radar and/or fixes
- 03 = Raydist without complications
- 04 = Raydist with errors, drifting, etc.
- 05 = Satellite
- 06 = Omega
- 07 = Loran A only
- 08 = Loran C only

TURBIDITY MEASUREMENT TECHNIQUE

- 1 = Turbidometer; in JTU
- 2 = Transmissometer; in percent of light transmission over a 10 cm. path
- 3 = Fluorometer; suspended solids calibration
- 4 = Nephelometer

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.

BLM08B, BLM08W

INSTRUMENT TYPE (SER., 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 (✓)	
Neil Brown Inst. STD MK III	July, 1977	✓			✓				
Beckman Minds D.C. Sensor	July, 1977	✓			✓				
Guildline Autosac MCD8400	July, 1977	✓			✓				

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7800319

- 1) File Type: F084
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR2985

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7800319

TRACK NO(s): TR2985

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM538	SL	79	79	9- to 1600BPI EBCDIC	
Duplicate	W10180	SL	79	4740	9- to 1600BPI ASCII	
Reformatted						
First User						
Final User						

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7800319/TR2985

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	3/16/83	2002	VCM538	3	79	79	
QUADI/SCAN TAPE	3/16/83	2002	W10180	3	4740	79	
ASSIGNED FOR PROCESS.							
OF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800319	F004	TR2980	0084	3128	32CW	1977/05/16	BLM07T	306830
7800319	F004	TR2981	0084	3128	32CW	1977/09/07	BLM08T	306831
7800319	L504	L01429	0084	3128	31FY	1976/11/03	BLM05B	306832
7800319	L504	L01430	0084	3128	31FY	1977/04/02	BLM06B	327072
7800319	L504	L01431	0084	3128	31FY	1977/05/30	BLM07B	306833
7800319	L504	L01432	0084	3128	31FY	1977/08/03	BLM08B	306834

(6 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7800319	F004	TR2980	32CW	60	0	77/05/16	77/05/21
7800319	F004	TR2981	32CW	67	0	77/09/07	77/09/15
7800319	L504	L01429	31FY	8	93920	76/11/03	76/11/18
7800319	L504	L01430	31FY	8	109360	77/04/02	77/04/13
7800319	L504	L01431	31FY	8	116320	77/05/30	77/06/05
7800319	L504	L01432	31FY	8	121520	77/08/03	77/08/17

(6 rows affected)