

DDFA: 2:01

ACCESSION NUMBER

7700425

VCM 457

DATA DOCUMENTATION FORM

TR 1322

NOAA FORM 24-13 (4-77)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION WASHINGTON, DC 20236

FORM APPROVED O.M.B. No. 41-R2651 EXPIRES 1-81

(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 23062</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>BLM04B</i>	
4. PLATFORM NAME(S) <i>G.W. Pierce</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>USA USA</i>	7. DATES FROM: <i>8/17/76</i> TO: <i>9/2/76</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. 23062</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 S 510)	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
Latitude & Long.	degrees, mins., seconds	Loran C SIMRAD Model LC 101		Program used to convert from Loran C coordinates to latitude & longitude
Latitudinal hem.	N or S			
Longitudinal hemisphere	E or W			
Station time	MM to nearest tenth of an hr.	Wrist Watch checked daily with WW		
Water depth	to nearest tenth of a meter	EPC Model 4500 Recorder ORE 12KH ₂ 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		
17-mib air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
10-mib air temperature	°C to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wind direction	Tens of degrees IMO Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind Speed	knots	Ship's Anemometer Bendix Model 120/135		
Wave direction	Tens of degrees IMO Code 0877	Ship's Compass		
Wave height	1/2 meters IMO Code 1555	Visual estimate		
Well direction	Tens of degrees IMO Code 0877	Ship's compass		
Well height	1/2 meters IMO Code 1555	Visual estimate		
Weather	IMO Code 4017	Visual estimate		
Cloud type	IMO Codes 0113, 0515, 0609	Visual estimate		

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 "993" in positions 11-13.
6. Data Record "4" in position 10
7. Terminator for data for Positions 1-10 identical to last data record, "993" - 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 ALCOL 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 LAY SPECIFICATIONS OF LABEL TYPE, VOLUME NUMBER)</p> <p>VCM439 Virginia Institute of Marine Science Bacteriology File Label = 'BACTER.009.BLMO4B'</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 80</p> <p>13. LENGTH OF BYTES IN BITS 8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM 1 MEASURED IN BYTES <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"009" 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 identifi- (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) 12	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

[10]

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHARACTERS (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,A	Same as Sample Header Record
Sequence	11	3	Chars	A3	"008" (constant)
Blank	14	66	Bytes	66X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"009" (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	A1	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 2706; 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

14. FILE NAME	15. POSITION FROM 1st CHARACTER IN (e.g., bits, bytes)	16. LENGTH		17. ALPHABETS	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record Type "3" Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as sample header record 2
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
<u>Data Record</u>					
File type	1	3	Chars	A3	"009" (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	5A1	Sample identifier
Replicate	19	1	Char	A1	Replicate I.D. for grab
Heterotrophic	20	7	Bytes	E7.0	Heterotrophic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
Hydrocarbonoclastic	27	7	Bytes	E7.0	Hydrocarbonoclastic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
	34	1	Bytes	F1	Heterotrophic bacteria too few for detecting if this col=1 and col 20-26 are blank
	35	1	Byte	F1	Hydrocarbonoclastic bacteria are too few for detection if this col=1 and col 27-33 are blank
Blank	36	45	Byte	45X	Blank
<u>Data Record Terminator</u>					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"998" (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

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.

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 (✓)	

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700425

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR1322

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

- END OF STATION RECORDS (998 in col 11-13) DELETED
- END OF CRUISE RECORD (999 in col 11-13) DELETED
- REPLICATE NO. (COL 19) CHANGED. A TO 1, B TO 2
- BLANKS IN TEMP REPLACED WITH ZEROS
- LATITUDE RANGE CHANGED TO 30°-40°

III. Processor Name: Charles B. Selisk

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	2/22/83	CBF	VCM457	3	80	80	
QUADI/SCAN TAPE	2/22/83	CBF	W10010	3	4000	80	350
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/24/84	CBF	DNDLX SELDATA.F009 TR 1322	1		80	350
FIRST USER TAPE							
WORK DISK FILE	9/24/84	CBF	"	1		80	350
FINAL USER TAPE							
FINAL MULCHEK	9/26/84	CBF	"	1		80	199
EDITED DISK FILE	9/26/84	CBF	MP075. TR 1322/F009	1		80	199
DATA SET "FINALIZED"	9/27/84	CBF	"	1		80	199

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700425

TRACK NO(s): TR1322

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM457	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10010	SL	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User	SEL DATA, F009 TR 1322		80			
Final User	DWCDC* MP075, TR1322/ F009		80			

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700425

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR1323

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

End of station records deleted (998 in vol 11-13)

End of cruise record deleted (999 in vol 11-13)

REPLICATE NO. (COL 19). CHANGED A to 1, B to 2

LAT. RANGE CHANGED TO 30° to 40°

III. Processor Name:

Charles B. Selisk

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700425

TRACK NO(s): TR1323

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM459	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10684	SL	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User	SELDATA, F009 TR 1323		80			
Final User	MPD75, TR1323/ F009		80			

ACCESSION/TRACK # 7700425/TR1323

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	2/14/83	882P	VCM459	3	80	80	
QUADI/SCAN TAPE	2/14/83	882P	W10684	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/25/84	CBF		1		80	88
FIRST USER TAPE							
WORK DISK FILE	9/25/84	CBF		1		80	88
FINAL USER TAPE							
FINAL MULCHEK	9/26/84	CBF		1		80	48
EDITED DISK FILE	9/26/84	CBF		1		80	48
DATA SET "FINALIZED"	9/27/84	CBF		1		80	48

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700425

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR1323

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

End of station records deleted (998 in vol 11-13)

End of cruise record deleted (999 in vol 11-13)

REPLICATE NO. (COL 19). CHANGED A to 1, B to 2

LAT. RANGE CHANGED TO 30° to 40°

III. Processor Name:

Charles B. Beckel

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700425

TRACK NO(s): TR1323

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM459	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10684	SL	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User	SEL DATA, F009 TR 1323		80			
Final User	MPD 75, TR 1323/ F009		80			

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7700425/TR 1323

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	2/14/83	BBP	VCM459	3	80	80	
QUADI/SCAN TAPE	2/14/83	BBP	W10684	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/25/84	CBF		1		80	88
FIRST USER TAPE							
WORK DISK FILE	9/25/84	CBF		1		80	88
FINAL USER TAPE							
FINAL MULCHEK	9/26/84	CBF		1		80	48
EDITED DISK FILE	9/26/84	CBF		1		80	48
DATA SET "FINALIZED"	9/27/84	CBF		1		80	48

VCM459

DATA DOCUMENTATION FORM

TR1323

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4. PLATFORM NAME(S) <i>John Smith</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>9/12/76 9/14/76</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)			
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		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

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Latitude & Longitude	Degrees, min., seconds	Loran C SIMPAD Model LC 101		Program used to convert from Loran C coordinates to latitude & longitude
Longitudinal Hemisphere	N or S			
Longitudinal Hemisphere	E or W			
Station time	MM to nearest tenth of an hr.	Wrist Watch checked daily with WWV		
Water depth	to nearest tenth of a meter	EPC Model 4500 Recorder CRE 12KH ₂ 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, tenths 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 IMO Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind Speed	knots	Ship's Anemometer Bendix Model 120/135		
Wave direction	Tens of degrees IMO Code 0877	Ship's Compass		
Wave height	1/2 meters IMO Code 1555	Visual estimate		
Well direction	Tens of degrees IMO Code 0877	Ship's compass		
Well height	1/2 meters IMO Code 1555	Visual estimate		
Weather	IMO Code 4077	Visual estimate		
Cloud type	IMO Codes 0513, 0515, 0509	Visual estimate		

B SCIENTIFIC CONTENT

Bacteriology

NAME OF DATA FIELD	REPORT NO UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPEC BY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Cloud cover	WMO Code 2700	Visual observation		
Visibility	WMO Code 4300	Visual observation		
Wave period	Seconds	Wrist watch - visual observation		
Swell period	Seconds	Wrist watch - visual observation		
Microaerophilic bacteria	per ml if water per gram if sediment per m ² if surface film	Water samples obtained with Niskin sterile bag sampler. Surface film with "Nutex" screen sampler. Sediment samples taken from undisturbed Smith - McIntyre grab sample using sterile "mini" lozers made from disposable syringes.	Most probably number (MPN) technique utilizing mineral salts enriched seawater & sterile crude oil broth	Mean (\bar{x}) value calculated from replicate samples
Heterotrophic bacteria	per ml. if water, per gram if sediment, per m ² if surface film		Most probable number (MPN) technique utilizing a modified peptone-yeast extract seawater broth	Mean (\bar{x}) value calculate from replicate sample

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, "999" in position 11-13
8. File terminator Positions 1-10 identical to last data record, "999" in Positions 11-15

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
- | | | |
|---|--------------------------------|-----------------------------------|
| <input type="checkbox"/> PL-1 | <input type="checkbox"/> ALGOL | <input type="checkbox"/> COBOL |
| <input checked="" type="checkbox"/> FORTRAN | <input type="checkbox"/> _____ | <input type="checkbox"/> 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</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><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 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 LABEL TYPE, VOLUME NUMBER)</p> <p>VCM439</p> <p>Virginia Institute of Marine Science Bacteriology File Label = 'BACTER.009.BLMO439'</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>

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN IN FILE (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"009" 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 identifi- (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) 12	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 UNITS (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Chars	A3	"009" 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)
Navigation	50	2	Bytes	I2	NAVIGATION: (see attached codes)
Procedure	52	1	Byte	I1	Analytical procedure: 1=Hydrocarbonoclastic bacteria MPN dilution procedure 2=Heterotrophic bacteria MPN dilution procedure 3=Both
Sample depth	53	4	Bytes	I4	Water sample depth (meters)
Sphere	57	1	Byte	I1	Sphere code: 1=surface water 2=sediment 3=microlayer (surface film) 4=thermocline water 5=bottom water
WTemp	58	3	Bytes	F3.1*	Surface water temperature (°C)
STemp	61	3	Bytes	F3.1*	Sediment temperature (°C)
Grab	64	1	Byte	I1	Grab replicate number (blank if not applicable)
Blank	65	16	Bytes	16X	Blank

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

RECORD FORMAT DESCRIPTION

1-10-61

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g. bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2"					
Ident	1	10	Bytes	A3,3I2,A	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	66	Bytes	66X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"009" (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	A1	Sample number identifier
Barometer	19	5	Bytes	F5.1*	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

14. FILE NAME	15. POSITION FROM 1st ADDRESS IN (e.g., 810, 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 2
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Data Record					
File type	1	3	Chars	A3	"009" (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	5A1	Sample identifier
Replicate	19	1	Char	A1	Replicate I.D. for grab
Heterotrophic	20	7	Bytes	E7.0	Heterotrophic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
Hydrocarbonoclastic	27	7	Bytes	E7.0	Hydrocarbonoclastic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
	34	1	Bytes	F1	Heterotrophic bacteria too few for detecting if this col=1 and col 20-26 are blank
	35	1	Byte	F1	Hydrocarbonoclastic bacteria are too few for detection if this col=1 and col 27-33 are blank
Blank	36	45	Byte	45X	Blank
Data Record Terminator					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"998" (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

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

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700425

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR1324

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

END OF STATION RECORDS (998 in vol. 11-13) DELETED
END OF CRUISE RECORD (999 in vol. 11-13) DELETED
REPLICATE NO. (COL. 19) CHANGED A to 1, B to 2.
LATITUDE RANGE CHANGED TO 30°-40° (data not changed)
DELETED WEATHER CODE OF H9.

III. Processor Name: Charles B. Selkirk

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700425

TRACK NO(s): TR1324

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VEM455	SL	80	80	9- tu 1600 BPI EBCDIC	
Duplicate	W10687	SL	80	4000	9- tu 1600 BPI ASCII	
Reformatted						
First User	DNDPC* SELDATA. FOO9TR 1324		80			
Final User	MPD750 TR1324/ FOO9		80			# Records 137

ACCESSION/TRACK # 7700425/TK1324

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	2/11/83	CBP	VC M455	3	80	80	246
QUADI/SCAN TAPE	2/11/83	CBP	W10687	3	4000	80	246
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/25/84	CBP	INDEXES SEL DATA. FOOT TR1324	1		80	246
FIRST USER TAPE							
WORK DISK FILE	9/25/84	CBP	"	1		80	246
FINAL USER TAPE							
FINAL MULCHEK	9/27/84	CBP	"	1		80	137
EDITED DISK FILE	10/10/84	CBP	MP075, TR1324 F009	1		80	137
DATA SET "FINALIZED"	10/10/84	CBP	"	1		80	137

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

14. FILE NAME	15. FIELD OR FIELD NUMBER MEASURED IN (e.g. bits, bytes)	16. LENGTH		17. ABBREVIATION	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	"998" (constant)
Blank	14	67	Bytes	67X	Blank
Data Record					
File type	1	3	Chars	A3	"009" (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	5A1	Sample identifier
Replicate	19	1	Char	A1	Replicate I.D. for grab
Heterotrophic	20	7	Bytes	E7.0	Heterotrophic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
Hydrocarbonoclastic	27	7	Bytes	E7.0	Hydrocarbonoclastic bacteria (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
	34	1	Bytes	F1	Heterotrophic bacteria too few for detecting if this col=1 and col 20-26 are blank
	35	1	Byte	F1	Hydrocarbonoclastic bacteria are too few for detection if this col=1 and col 27-33 are blank
Blank	36	45	Byte	45X	Blank
Data Record Terminator					
Ident	1	10	Bytes	A3,3I2,A1	Same as data record
Sequence	11	3	Chars	A3	"998" (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

RECORD FORMAT DESCRIPTION

1-10-61

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHARACTERS (e.g., 010, 0100)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
Record Type "2" Terminators					
Blank	1	10	Bytes	A3,3I2,A	Same as Sample Header Record
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	66	Bytes	66X	Blank
Sample Header Record 2					
File type	1	3	Chars	A3	"009" (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 Identifier	14	5	Chars	A1	Sample number identifier
Barometer	19	3	Bytes	F4.1*	Pressure in millibars
Air Temp	22	4	Bytes	F4.1*	Air temperature; degrees Celsius
Sea Temp	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 2706; 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 FILE HEADER

14. FIELD NAME	15. POSITION FROM - TO MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
File type	1	3	Chars	A3	"009" 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 identifi, (left-justified)
Cruise dates	28	17	Bytes	5 (I2,A1) 12	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	

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 "993" 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. RECORD MODE</p> <p><input type="checkbox"/> PCD <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 TAPE TYPE, VOLUME NUMBER)</p> <p>VCM439 Virginia Institute of Marine Science Bacteriology File Label = 'BACTER.009.BLMO3B'</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 BITS 8</p>

B SCIENTIFIC CONTENT

Bacteriology

NAME OF DATA FIELD	REPORT NO UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPEC BY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDE MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Cloud cover	WMO Code 2700	Visual observation		
Visibility	WMO Code 4300	Visual observation		
Wave period	seconds	Wrist watch - visual observation		
Swell period	seconds	Wrist watch - visual observation		
Hydrocarbon- lastic bacteria	per ml if water per gram if sediment per m ² if surface film	Water samples obtained with Niskin sterile bag sampler. Surface film with "Nutex" screen sampler. Sediment samples taken from undisturbed Smith - McIntyre grab sample using sterile "mini" lorers made from disposable syringes.	Most probably number (MPN) technique utilizing mineral salts enriched seawater & sterile crude oil broth	Mean (\bar{X}) value calculated from replicate samples
Sterotrophic bacteria	per ml. if water, per gram if sediment, per m ² if surface film		Most probable number (MPN) technique utilizing a modified peptone-yeast extract seawater broth	Mean (\bar{X}) value calculate from replicate sample

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
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 4500 Recorder CRE 12KH ₂ Tranceiver		
Water sample depth	to nearest meter	CTD Neil Brown MK III		
Surface water temperature	to nearest tenth	Mercury in glass stem thermometer		
Sediment temperature	to nearest tenth	Mercury in glass stem thermometer		
Barometric pressure	Millibars, tens to tenths	Danforth Aneroid Barometer Model 310		
Dry-bulb air temperature	to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wet-bulb air temperature	to nearest tenth	Aspirated Psychrometer Bendix Model 566		
Wind direction	tens of degrees IMO Code 0877	Ship's Anemometer Bendix Model 120/135		
Wind Speed	knots	Ship's Anemometer Bendix Model 120/135		
Wave direction	tens of degrees IMO Code 0877	Ship's Compass		
Wave height	1/2 meters IMO Code 1555	Visual estimate		
Swell direction	tens of degrees IMO Code 0877	Ship's compass		
Swell height	1/2 meters IMO Code 1555	Visual estimate		
Other	IMO Code 4577	Visual estimate		
Cloud type	IMO Codes 0513, 1515, 0509	Visual estimate		

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	Foresl scale	Visual comparison with Foresl 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)

VCM455 DATA DOCUMENTATION FORM

TR1324

NOAA FORM 24-13
(-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20238

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(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 23062</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>BLM03B</i>	
4. PLATFORM NAME(S) <i>Gilliss</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
		PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		<i>USA USA</i>	<i>6/14/76 6/24/76</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. 23062</i>			

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700425

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR1324

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

END OF STATION RECORDS (998 incl. 11-13) DELETED
END OF CRUISE RECORD (999 incl. 11-13) DELETED
REPLICATE NO. (COL. 19) CHANGED A to 1, B to 2.
LATITUDE RANGE CHANGED TO 30°-40° (data not changed)
DELETED WEATHER CODE OF. H9.

III. Processor Name:

Charles B. Selkirk

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700425

TRACK NO(s): TR1324

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCM455	SL	80	80	9-TR 1600 BPI EBCDIC	
Duplicate	W10687	SL	80	4000	9-TR 1600 BPI ASCII	
Reformatted						
First User	DNVDC* SELDATA. FOO9TR 1324		80			
Final User	MPD750 TR1324/ FOO9		80			# records 137

ACCESSION/TRACK # 7700425/TK1324

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
	ORIGINATOR TAPE	2/11/83	CBP	VCMA55	3	80	80
QUADI/SCAN TAPE	2/11/83	CBP	W10687	3	4000	80	246
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/25/84	CBP	QNDCK SEL DATA TR1324	1		80	246
FIRST USER TAPE							
WORK DISK FILE	9/25/84	CBP	"	1		80	246
FINAL USER TAPE							
FINAL MULCHEK	9/27/84	CBP	"	1		80	137
EDITED DISK FILE	10/10/84	CBP	MPD75, TR1324 F009	1		80	137
DATA SET "FINALIZED"	10/10/84	CBP	"	1		80	137

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7700425	F009	TR1322	0084	3128	31PP	1976/08/16	BLM04B	304087
7700425	F009	TR1323	0084	3128	32IT	1976/09/14	BLM04G	304088
7700425	F009	TR1324	0084	3128	31GI	1976/06/15	BLM03B	304089

(3 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7700425	F009	TR1322	31PP	50	199	76/08/16	76/09/01
7700425	F009	TR1323	32IT	13	48	76/09/14	76/09/14
7700425	F009	TR1324	31GI	36	137	76/06/15	76/06/23

(3 rows affected)