

Rec'd 6/9/76

ACCESSION
NUMBER

7601289

DATA DOCUMENTATION FORM

Bathological 76-1289

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-R7651

TR0306

F009

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 Virginia Institute of Marine Science Gloucester Point, Virginia 23062			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED BLM		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BLM01B VEM 069 070	
4. PLATFORM NAME(S) Iselin	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR FROM: MO/DAY/YR TO: MO/DAY/YR R/V Columbus Iselin University of Miami USA 10/27/75 11/06/75	
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) Dr. Gerald L. Engel Virginia Institute of Marine Science Gloucester Point, Va. 23061 804-642-2111			

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
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 hour	Ships chronometer checked w/ WWV		
Water depth	to nearest tenth of a meter	PDR Hydroproducts		
Water sample depth	to nearest meter	Neil Brown Ltd. MK III		
Surface water temperature	°C to nearest tenth	Stem thermometer		
Sediment temperature	°C to nearest tenth	Stem thermometer		
Barometric pressure	millibars, tens to tenths	Ships Barometer		
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-Friez Model 120/135		
Wind Speed	knots	Ship's anemometer Bendix-Friez 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 0513, 0515, 0509	Visual estimate		

NOAA FORM 24-13 (3-72) USCOMM-DC 44289-P72

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

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

1. 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 of data for each sample Positions 1-10 identical to last data record, "998" in positions 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

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	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 <input type="checkbox"/> _____	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) VCM069 Va. Inst. of Marine Sc. Bacteriological (009)
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
12. PHYSICAL BLOCK LENGTH IN BYTES 80	
13. LENGTH OF BYTES IN BITS 8	

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	"009" file type (bacteriological)
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 (12,A1), I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- Ending year, month, day
Senior Scientist	45	19	Chars	19A1	(left justified)
Investigator	64	17	Chars	17A1	Investigators & Institution responsible for data.

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	"009" file-type (bacteriological)
File Date	4	6	Bytes	3I2	Year, month, day of file generation
Record Type	10	1	Char	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
Lathem	25	1	Char	A1	Hemisphere, "N" or "S"
Longitude	26	7	Bytes	I3, 2I2	Degrees, minutes, seconds
Lonhem	33	1	Char	A1	Hemisphere, "N" or "S"
Time	34	3	Bytes	F3.1*	GMT in hours
Date	37	8	Bytes	2(I2,A1),I2	xx/xx/xx sample date (year, month, day)
Depth	45	5	Bytes	F5.1	Water depth, meters
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=Air 2=Surface floating 3=Water 4=Bottom 5=Land
W Temp	58	3	Bytes	F3.1*	Surface water temperature (°C)
S Temp	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

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>bytes</u> (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 1
Sequence	11	3	Chars	A3	"998" (constant)
Blank	14	67	bytes	67X	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	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 bytes (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 2 "998" (constant) Blank
Sequence	11	3	chars	A3	
Blank	14	67	bytes	67X	
<u>Data Record</u>					
File Type	1	3	Chars	A3	"009" (constant) year,month,day of file genera- tion
File Date	4	6	bytes	3I2	
Record Type	10	1	char	A1	
Sequence	11	3	bytes	I3	"4" (data record) Sequence of this record type within sample Sample identifier Replicate I.D. for grab Heterotrophic bacteria* (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code) Hydrocarbonoclastic bacteria* (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code) Blank
Sample	14	5	chars	5A1	
Replicate	19	1	char	A1	
Heterotrophic	20	7	bytes	E7.0	
Hydrocarbonoclastic	27	7	bytes	E7.0	
Blank	34	47	bytes	47X	Same as Data Record "998" (constant) Blank
<u>Data Record Terminator</u>					
Ident	1	10	bytes	A3,3I2,A1	
Sequence	11	3	chars	A3	Same as Data Record "999" (constant) Blank
Blank	14	67	bytes	67X	
<u>File Terminator</u>					
Ident	1	10	bytes	A3,3I2,A1	Same as Data Record "999" (constant) Blank
Sequence	11	3	chars	A3	
Blank	14	67	bytes	67X	
					*"9999+99"= indeterminate because bacterial population is too small for detection by method being used.

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 (✓)	
Neil Brown Instr. CTD MK III	Oct. 1975		Neil Brown Instr.					X	
Beckman Minds D.D. Sensor	Nov. 1975	X				X			
Beckman Inductive Salinometer RS7B		X		* X Annually					

Rec'd 6/9/76 Asm

ACCESSION
NUMBER

PDF A:1:20 DATA DOCUMENTATION FORM

Bacteriological 76-1289

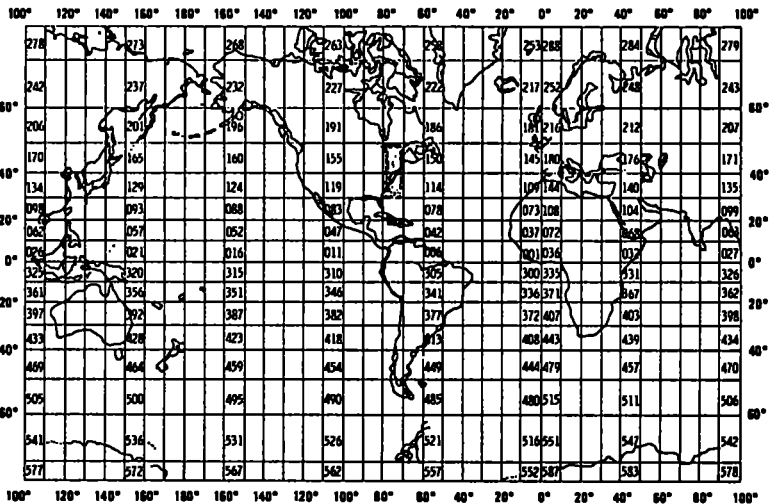
A FORM 24-13
(4/72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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RECORDS SECTION
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RESUBMITTED

A. ORIGINATOR IDENTIFICATION

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4. PLATFORM NAME(S) Iselin	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"><thead><tr><th>PLATFORM</th><th>OPERATOR</th></tr></thead><tbody><tr><td>R/V Columbus Iselin</td><td>University of Miami USA</td></tr></tbody></table>	PLATFORM	OPERATOR	R/V Columbus Iselin	University of Miami USA	7. DATES <table border="1"><thead><tr><th>FROM: MO/DAY/YR</th><th>TO: MO/DAY/YR</th></tr></thead><tbody><tr><td>10/27/75</td><td>11/06/75</td></tr></tbody></table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	10/27/75	11/06/75
PLATFORM	OPERATOR										
R/V Columbus Iselin	University of Miami USA										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
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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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Longitudinal Hemisphere	E or W			
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Water sample depth	to nearest meter	Neil Brown Ltd. MK III		
Surface water temperature	°C to nearest tenth	Stem thermometer		
Sediment temperature	°C to nearest tenth	Stem thermometer		
Barometric pres- sure	millibars, tens to tenths	Ships Barometer		
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-Friez Model 120/135		
Wind Speed	knots	Ship's anemometer Bendix-Friez 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 0513, 0515, 0509	Visual estimate		

NOAA FORM 24-13 (3-72)

C. DATA FORMAT

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14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.
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18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

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 of data for Positions 1-10 identical to last data record,
each sample "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

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	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 <input type="checkbox"/> _____	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 LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) VCM069 Va. Inst. of Marine Sc. Bacteriological (009)
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES <u>80</u> 13. LENGTH OF BYTES IN BITS <u>8</u>

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	"009" file type (bacteriological)
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 (12,A1), I2	xx/xx/xx-xx/xx/xx Beginning year, month, day- Ending year, month, day
Senior Scientist	45	19	Chars	19A1	(left justified)
Investigator	64	17	Chars	17A1	Investigators & Institution responsible for data.

RECORD FORMAT DESCRIPTION

RECORD NAME Sample Header 1

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	"009" file-type (bacteriological)
File Date	4	6	Bytes	3I2	Year, month, day of file generation
Record Type	10	1	Char	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, "N" or "S"
Time	34	3	Bytes	F3.1*	GMT in hours
Date	37	8	Bytes	2(I2,A1),I2	xx/xx/xx sample date (year, month, day)
Depth	45	5	Bytes	F5.1	Water depth, meters
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=Air 2=Surface floating 3=Water 4=Bottom 5=Land
W Temp	58	3	Bytes	F3.1*	Surface water temperature (°C)
S Temp	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

RECORD NAME _____

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		
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	"009" (constant)
File Date	4	6	bytes	3I2	year,month,day of file generatio
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 <u>bytes</u> (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 2 "998" (constant) Blank
Sequence	11	3	chars	A3	
Blank	14	67	bytes	67X	
<u>Data Record</u>					
File Type	1	3	Chars	A3	"009" (constant) year,month,day of file generation
File Date	4	6	bytes	3I2	
Record Type	10	1	char	A1	"4" (data record) Sequence of this record type within sample
Sequence	11	3	bytes	I3	
Sample	14	5	chars	5A1	Sample identifier Replicate I.D. for grab Heterotrophic bacteria* (per ml. if water, per gram if sediment, per m ² if surface film: MPN value)(see sphere code)
Replicate	19	1	char	A1	
Heterotrophic	20	7	bytes	E7.0	
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) Blank
Blank	34	47	bytes	47X	
<u>Data Record Terminator</u>					
Ident	1	10	bytes	A3,3I2,A1	Same as Data Record "998" (constant) Blank
Sequence	11	3	chars	A3	
Blank	14	67	bytes	67X	
<u>File Terminator</u>					
Ident	1	10	bytes	A3,3I2,A1	Same as Data Record "999" (constant) Blank
Sequence	11	3	chars	A3	
Blank	14	67	bytes	67X	
* "9999+99" = indeterminate because bacterial population is too small for detection by method being used.					

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 (✓)	
Neil Brown Instr. CTD MK III	Oct. 1975		Neil Brown Instr.					X	
Beckman Minds D.D. Sensor	Nov. 1975	X				X			
Beckman Inductive Salinometer RS7B		X		* X Annually					

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7601289

- 1) File Type: F009
- 2) Project Ident.: VIMS-OCS
- 3) Track Nos.: TR0306

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

MICRO BIOTA COUNTS OF 999⁺⁹⁹ DELETED
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 300-400.

III. Processor Name: Charles B. Adair

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7601289/TR0306

<u>Step</u>	<u>Completion Date/Init.</u>		<u>Tape # or DSN</u>	<u># of Files</u>	<u>BLKSIZE</u>	<u>LRECL</u>	<u># RECORDS</u>
ORIGINATOR TAPE	3/2/83	TRP	VC0070	3	80	80	
QUADI/SCAN TAPE	3/2/83	TRP	W10065	3	4000	80	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/25/84	CBT	PN00CKSEL DATA F009TR0306	1		80	232
FIRST USER TAPE							
WORK DISK FILE	9/25/84	CBT	"	1		80	232
FINAL USER TAPE							
FINAL MULCHEK	9/26/84	CBT	"	1		80	130 129
EDITED DISK FILE	9/26/84	CBT	MP075, TR0306 F009	1		80	129
DATA SET "FINALIZED"	9/27/84	CBT	"	1		80	129

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7601289

TRACK NO(s): TR0306

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCH070	SL	80	80	9-t 1600 BPI EBCDIC	
Duplicate	W10065	SL	80	4000	9-t 1600 BPI ASCII	
Reformatted						
First User	DNODC* SEL DATA. F009 TR 0306		80			
Final User	DNODC* MPD 75. TR0306/ F009		80			

Password:

accNo-	flēA	refNo	proj	inst	ship	startDate	cruise	catId
7601289	F009	TR0306	0084	3128	32IC	1975/10/28	BLM01B	299742

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
7601289	F009	TR0306	32IC	34	129	75/10/28	75/11/05

(1 row affected)