

DATA DOCUMENTATION FORM

Bacteriological 76-1289

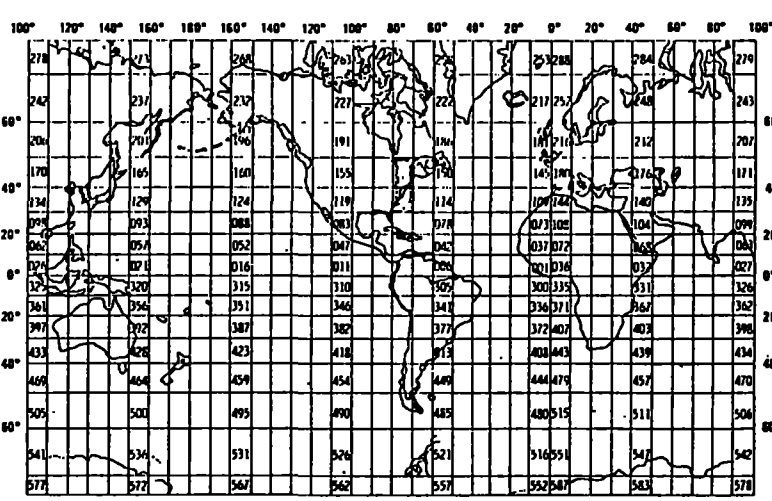
TR0306

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) R/V Columbus Iselin University of Miami USA	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 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	T _{or}	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 coordinats 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 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		

B. SCIENTIFIC CONTENT CONTINUED

[illegible]

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 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 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 (bacteriologica
File Date	4	6	Bytes	3I2	Year, month, day of file gener- ation
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
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 <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 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 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	
<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					

Rec'd 6/9/76 JRM

ACCESSION
NUMBER

PDF A:1:20

DATA DOCUMENTATION FORM

Bacteriological 76-1289

A FORM 24-13

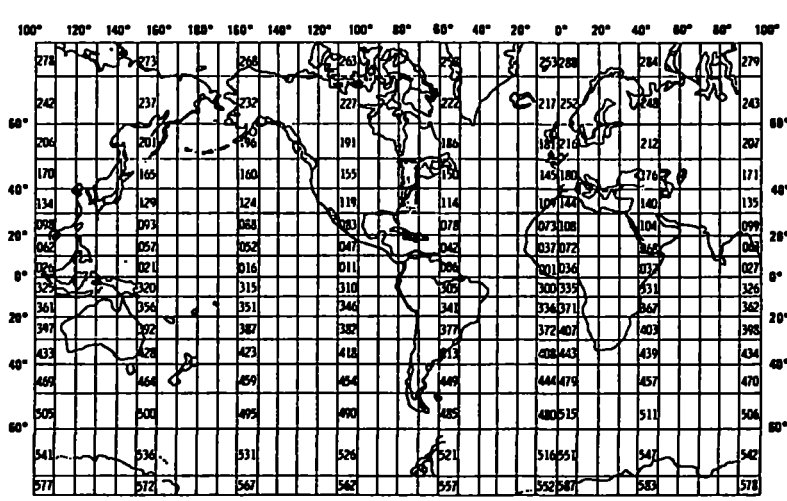
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R26517R0306
F009

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.

RESUBMITTED

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	
4. PLATFORM NAME(S) Iselin	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR R/V Columbus Iselin University of Miami	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 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	T _{or}	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)

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 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 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		

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.

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 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 <p style="text-align: center;">80</p> 13. LENGTH OF BYTES IN BITS <p style="text-align: center;">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	"009" file type (bacteriologica
File Date	4	6	Bytes	3I2	Year, month, day of file gener- ation
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
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 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 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. ELD 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)
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)
Blank	34	47	bytes	47X	Blank
<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					

RECORDS

Acc# 76-1344

ORIGINATOR TAPE

VOL=SER=013146, 9TRK, LABEL=(,NL),
DCB=(RECFM=FB, BLKSIZE=800, LRECL=80)

USER TAPE

VOL=SER=008971, 9TRK, LABEL=(,SL), DSN=ACEI.ATLANTIC,
DCB=(RECFM=FB, BLKSIZE=800, LRECL=80)

ATLANTIC COASTAL EXPERIMENT (ACE-1)

ATLANTIS II Cruise 087

Data submitted from:
University of Washington

RECORDS

ATLANTIS II

Cruise 087

Acc# 76-1344

marens square 152

<u>categories + parameters</u>	<u>stations or hits</u>
100-0180 Temperature	48
100-0181 Salinity	48
100-0001 Oxygen	26
100-0003 Apparent Oxygen Utilization (AOU)	26
100-0002 Oxygen, % saturation	26
501-5000 Chlorophyll	47
100-0010 phosphate	48
100-0030 silicate	48
100-0021 nitrate	48
100-0019 nitrite	48
100-0041 Ammonia	48
200-0016 nitrate/silicate ratio	48

ATLANTIS II
Cruise 087

RECORDS

Acc# 76-1344

maraden square 116

<u>categories + parameters</u>	<u>stations or lts</u>
Temperature	29
Salinity	29
Oxygen	22
AOU	22
% oxygen	22
Chlorophyll	29
phosphate	29
silicate	29
nitrate	29
nitrite	29
Ammonia	29
nitrate/silicate ratio	29

ACCESSION
NUMBER

76-1344

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
REPORT SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-10651

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.

INHOUSE

2718 Records
77 stations

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			
UNIVERSITY OF WASHINGTON DEPARTMENT OF OCEANOGRAPHY SEATTLE, WASHINGTON 98195			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
ATLANTIC COASTAL EXPERIMENT (ACE-1)		CRUISE 087	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, ETC.)	6. PLATFORM AND OPERATOR'S NATIONALITY(IES)	DATES
ATLANTIS II	SHIP	U.S.	U.S.
		PLATFORM	OPERATOR
		22 Mar 75	11 Apr 75
9. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MAPS OR SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		152 - 48 stations 116 - 29 stations	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? (E.G., MONTH, YEAR)		GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (NP)?			
I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTRES HOLDINGS FOR INTERNATIONAL EXCHANGE?			
<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS, IF OTHER THAN INTER-O)			
DR. JOHN WALSH BROOKHAVEN NATIONAL LAB			

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 FILTER AND AVERAGING
STATION NUMBER	N/A	N/A	N/A	N/A
CAST	N/A	N/A	N/A	N/A
LATITUDE	DEGREES <small>MINUTES AND SECONDS</small>	SATELITE NAVIGATION, RADAR LORAN	N/A	N/A
LONGITUDE	DEGREES <small>MINUTES AND SECONDS</small>	SATELITE NAVIGATION, RADAR LORAN	N/A	N/A
DATE	(GMT) DAY, MONTH, YEAR	CALENDER	N/A	N/A
TIME	HOURS (GMT) <small>MINUTES AND SECONDS</small>	SHIP'S CHRONOMETER	N/A	N/A
SONIC DEPTH	METERS	PRECISION DEPTH RECORDER	N/A	N/A
SECCHI DISK DEPTH	METERS	SECCHI DISK	N/A	N/A
SAMPLE DEPTH	METERS	METER WHEEL	N/A	N/A
TEMPERATURE	CENTIGRADE	REVERSING THERMOMETERS	N/A	H.O. 614
SALINITY	o/oo	NISKIN BOTTLES	GUILDLINE SALINOMETER AND WHOI SALINOMETER	N/A
SIGMA - T	N/A	N/A	N/A	H.O. 615
OXYGEN	ML/L	NISKIN BOTTLE	CHESAPEAKE BAY WINKLER METHOD	N/A
OXYGEN	MGAT/L	NISKIN BOTTLE	N/A	
APPARENT OXYGEN UTILIZATION	MGAT/L	N/A	N/A	WEISS' FORMULA(1970)
PERCENT OXYGEN SATURATION	N/A	N/A	N/A	WEISS' FORMULA (1970)
FLUOROMETRIC CHLOROPHYLL	UG/L	NISKIN BOTTLE	TURNER FLUOROMETER	N/A

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
PHOSPHATE	UGAT/L	NISKIN BOTTLE	AUTANALYZER	N/A
SILICATE	UGAT/L	NISKIN BOTTLE	AUTANALYZER	N/A
NITRATE	UGAT/L	NISKIN BOTTLE	AUTANALYZER	CORRECTED FOR THE NI CONTRIBUTION WHENEVER NITRITE DATA WERE AVAILABLE.
NITRITE	UGAT/L	NISKIN BOTTLE	AUTANALYZER	N/A
AMMONIA	UGAT/L	NISKIN BOTTLE	AUTANALYZER	N/A
NITRATE/ SILICATE RATIO	N/A	N/A	N/A	NITRATE/SILICATE

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

HEADER RECORD - AN 'H' IN COLUMN 1. TWO HEADER RECORDS PER STATION CONTAINING ONE CAST. (i.e. FOUR(4) HEADER RECORDS FOR A STATION WITH A DOUBLE CAST.)

DATA RECORD - A 'D' IN COLUMN 1. THERE ARE FOUR (4) DATA RECORDS PER SAMPLE DEPTH.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

EACH STATIONS DATA HAS TWO (2) (FOUR (4) DEPENDING ON NUMBER OF CASTS) HEADER RECORDS FOLLOWED BY FOUR (4) DATA RECORDS PER SAMPLE DEPTH. DATA RECORDS ARE ALWAYS SEQUENCED BY INCREASING DEPTH IN GROUPS OF FOUR (4) DATA RECORDS PER SAMPLE DEPTH.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DON BISHOP (206) 543-7242

ADDRESS UNIVERSITY OF WASHINGTON WB-10 SEATTLE, WASHINGTON 98195

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> 777</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" 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>AA UNIVERSITY OF WASHINGTON ANSI STANDARD 9-TRACK TAPE DON BISHOP ACE - 1 HYDRO (206) 543-7242</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 DPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 555 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>256</p>

Acc # 76-1344

C. DATA FORMAT ORIGINATOR TAPE

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

VOL=SER=013146

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

Header Records: 2 kinds, H appears in column 2 of both
H- identified with latitude, longitude, date and time
H- (second kind) none of these
D (Data or detail cards)
a D in column 2 of each; 4 types

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

2718 Records
77 Stations

VOL=SER=013146, 9 TRK, LABEL=(,NL), DSN=IN,
DCB=(RECFM=FB, BLKSIZE=800, LRECL=80)

3. ATTRIBUTES AS EXPRESSED IN



PL-1



ALGOL



COBOL



FORTRAN



LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____

ADDRESS _____

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 checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
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 type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) University of Washington ANSI Standard 9 Track Tape Don Bishop ACE-1 Hydro (206) 543-7242
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 _____ 13. LENGTH OF BYTES IN BITS _____

Acc # 76-1344

C. DATA FORMAT

USER TAPE

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

VOL=SER=008971

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

Header Records: 2 kinds, H appears in column 2 of both

H1 - a 1 in column 3

H

D (Data or detail cards) - a D in column 2 of each

D1 - a 1 in column 3

D2 - a 2 in column 3

D3 - a 3 in column 3

D4 - a 4 in column 3

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

2718 Records
77 Stations

VOL=SER=008971, 9 TRK, LABEL=(,SL), DSN=ACEI.ATLANTIC

DCB=(RECFM=FB, BLKSIZE=800, LRECL=80)

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____

ADDRESS _____

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 type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 600 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>13. LENGTH OF BYTES IN BITS</p>

Acc# 76-1344

USER TAPE VOL=SER=8971

RECORD FORMAT DESCRIPTION

ORD NAME HEADER RECORD #1 (& 3)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR. (e.g., bit, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1 2	1	CHAR	blank AT	AN "H" INDICATES HEADER RECORD
STATION NUMBER	3 7	4 3	CHAR	blank I 3	STATION DESIGNATION
CAST	10 23	13 1	CHAR	blank I 51	DESIGNATES THE NUMBER OF THE WIRE CAST FOR A STATION.
LATITUDE	24 32	8 7	CHAR	blank -9AT F 7.1	XX XX.X (NOTE: ' ' DENOTES A BLANK SPACE)
LONGITUDE	39 44	1 8	CHAR	BLANK -10AT F 8.1	XXX XX.X (NOTE: ' ' DENOTES A BLANK SPACE)
DATE	52 57	1 9	CHAR	BLANK -9AT A 9	GMT DATE (dd mm yy) (NOTE: ' ' DENOTES A BLANK SPACE)
TIME	66 71	5 8	CHAR	BLANK -9AT A 8	GMT TIME (hh:mm:ss)
HEMISPHERE	79 40	2 1	"	blank A 1	'N'
HEMISPHERE	41 53	3 1	"	blank A 1	'W'
	54	3	"	blank	

Acc # 76-1344

USER TAPE

76-1344

VOL=SER=8971

RECORD FORMAT DESCRIPTION

WORD NAME HEADER RECORD #2 (8 #4)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN CHAR (e.g., bit, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1 2	1 1	CHAR	BLANK AT	AN 'H' INDICATES HEADER RECORD
STATION NUMBER	3 27	4 52	CHAR	BLANK 15 I2	STATION DESIGNATION
CAST	9 18 23	14 21	CHAR	BLANK 15 I1	CAST DESIGNATION
SONIC DEPTH	24 29 34	10 73	CHAR	BLANK 17.5 I3	DEPTH TO BOTTOM
SECCHI DEPTH	37 43 48	11 52	CHAR	BLANK 15 I2	SECCHI DISK DEPTH FOR EACH STATION.
	50	31		BLANK	

Acc# 76-1344

USER TAPE

VOL=SER= 8971

RECORD FORMAT DESCRIPTION

DATA RECORD # 1

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (No. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	12 3	1	CHAR	BLANK	A '0' INDICATES A DATA RECORD
CAST	2 10	8 1	CHAR	BLANK	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	11 21	10 3	CHAR	BLANK	SAMPLE DEPTH IN METERS
TEMPERATURE	23 32	13 6	CHAR	BLANK	TEMPERATURE AT SAMPLE DEPTH DEGREES CELSIUS.
SALINITY	28 45	13 6	CHAR	BLANK	SALINITY AT SAMPLE DEPTH, PARTS PER THOUSAND.
SIGMA-T	49 58	13 6	CHAR	BLANK	AN EXPRESSION FOR THE DENSITY OF THE SAMPLE AT ATMOSPHERIC PRESSURE.
OXYGEN	62 71	13 6	CHAR	BLANK	ML/L
	77	4		BLANK	

Temperature
 *1 If no data -9900. is found in field. F6.0
 If data the maximum length is F5.2

Salinity
 *2 If no data -9900. is found in field. F6.0
 If data the maximum length is F6.3

Sigma-T
 *3 If no data -9900. is found in field. F6.0
 If data the maximum length is F6.3

Oxygen
 *4 If no data -9900. is found in field. F6.0
 If data the maximum length is F4.2.

Leading zeroes suppressed except for units digit for all parameters.

Acc # 76-1344

USER TAPE

RECORD FORMAT DESCRIPTION VOL=SER=8971

3RD NAME

DATA RECORD #2

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (0-2, 3-5, 6-9, etc.)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	1 2	1	CHAR	BLANK A1	A '0' INDICATES A DATA RECORD
CAST	3 4 10	1 6 8	CHAR	BLANK 18	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	11 21	10 3	CHAR	BLANK F13.0	SAMPLE DEPTH IN METERS
*1 OXYGEN	24 32	8 6	CHAR	BLANK F5.3, F13.0, F6.0	MILLIGRAM-ATOMS/LITER
*2 APPARENT OXYGEN UTILIZATION	34 45	7 6	CHAR	BLANK F13.0 F6.3 or F6.0	DIFFERENCE BETWEEN THE SURFACE EQUILIBRIUM SOLUBILITY OF THE SAMPLE WATER AS DETERMINED BY WEISS' (1970) FORMULA AND THE OBSERVED OXYGEN CONCENTRATION IN MG-ATOMS/LITER.
*3 PERCENT OXYGEN SATURATION	51 58	7 6	CHAR	BLANK F13.0 F5.1 or F6.0	OBSERVED OXYGEN CONCENTRATION DIVIDED BY THE SURFACE EQUILIBRIUM SOLUBILITY VALUE (FROM WEISS' FORMULA).
*4 FLUOROMETRIC CHLOROPHYLL	64 71	7 6	CHAR	BLANK F5.2 or F6.0 F13.0	IN MICROGRAMS PER LITER
	77	4		BLANK	

- oxygen
- *1 If no data -9900. is found in field. F6.0
If data the maximum length is F5.3
- A04
- *2 If no data -9900. is found in field. F6.0
If data the maximum length is F6.3
- 0002
- *3 If no data -9900. is found in field. F6.0
If data the maximum length is F5.1.
- *4 Fluorometric chlorophyll
If no data -9900. is found in field. F6.0
If data the maximum length is F5.2.

Acc# 76-1344

USER TAYE

RECORD FORMAT DESCRIPTION VOL=SER= 8971

ORD NAME DATA RECORD #3

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN CHAR (a.g., bits, bytes)	16. LENGTH NUMBER UNITS	17. ATTRIBUTES	18. USE AND MEANING
RECORD CODE	1 2	1 1	CHAR A1	BLANK A 'D' INDICATES A DATA RECORD
CAST	3 4 16	1 8	CHAR 16 11	BLANK INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	11 21	10 33	CHAR F13.0 F13	BLANK SAMPLE DEPTH IN METERS
PHOSPHATE	24 32	8 6	CHAR F13.0 F4.2 or F6.0	BLANK REACTIVE PHOSPHOROUS IN MICROGRAM ATOMS PER LITER.
SILICATE	38 45	7 6	CHAR F13.0 F5.2 or F6.0	BLANK DISSOLVED SILICON IN MICROGRAM ATOMS PER LITER.
NITRATE	51 59	7 6	CHAR F13.0 F5.2 or F6.0	BLANK IN MICROGRAM ATOMS PER LITER CORRECTED FOR THE NITRITE CONTRIBUTION WHENEVER NITRITE DATA WERE AVAILABLE.
NITRITE	64 71	7 6	CHAR F2.2 F13.0 F6.0	BLANK IN MICROGRAM ATOMS PER LITER
	77	4	CHAR	BLANK

Phosphate

- *1 If no data -9900. is found in field. F6.0
If data the maximum length is F4.2

Silicate

- *2 If no data -9900. is found in field F6.0
If data the maximum length is F5.2

Nitrate

- *3 If no data -9900. is found in field F6.0
If data the maximum length is F5.2

Nitrite

- *4 If no data -9900. is found in field F6.0
If data the maximum length is F2.2

Acc# 76-1314

USER TAPE

RECORD FORMAT DESCRIPTION

VOL=SER=8971

DATA RECORD #4

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN CHAR (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
RECORD CODE	13 4	1 6	CHAR	AT BLANK	A 'D' INDICATES A DATA RECORD
CAST	2 10	8 10	CHAR	10 1	INDICATES CAST TO WHICH THIS DATA RECORD BELONGS
DEPTH	11 21	10 13	CHAR	BLANK F13.0 F13	SAMPLE DEPTH IN METERS
AMMONIA	23 34	10 14	CHAR	BLANK F13.0 F4.2	IN MICROGRAM ATOMS PER LITER
NITRATE/SILICATE RATIO	38	9		BLANK	
	28 47	13 4	CHAR	F13.0 F4.2	NITRATE CONCENTRATION DIVIDED BY THE SILICATE CONCENTRATION.
	51	30	"	BLANK	

DATE:

TO: OC12FROM: OC13SUBJECT: 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:

ErrorCorrection Completed (Check)

II. Additional error corrections:

ErrorCorrection 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 AT 1, SITE 2.
 LATITUDE RANGE CHANGED TO 30°-40°.

III. Processor Name:

Charles B. Adair

DATA SET ROUTE SHEET

ACCESSION/TRACK # 7601289/TR0306

Step	Completion Date/Init.	Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECOR
ORIGINATOR TAPE	3/2/83	TRP VCM070	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 <small>PNDCXSEL DATA F009TR0306</small>	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 <small>MPD75. TR0306 F009</small>	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	VEH070	SL	80	80	9-tr 1600 BPI EBCDIC	
Duplicate	W10065	SL	80	4000	9-tr 1600 BPI ASCII	
Reformatted						
First User	DNODC* SEL DATA. F009 TR 0306		80			
Final User	DNODC* MPD 75. TR0306/ F009		80			

Password:

accNo	fleA	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
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7601289	F009	TR0306	32IC	34	129	75/10/28	75/11/05

(1 row affected)