

VCM 215

## DATA DOCUMENTATION FORM

NUMBER

77-0325

TR 1307

Dup tape: 6993

NOAA FORM 24-13  
(6-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
NICKERBOUR TOWER  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R-1051

FO08

OPLANKTON 008  
4/24/77 Rec'd 4/28/77

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		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
BLM		BLM04W	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V Virginian Sea	Ship	PLATFORM OPERATOR	FROM MO, DAY, YR. TO MO, DAY, YR.
		R/V Virginian Sea VIMS	08/30/76 09/10/76
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (CNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM 1)			
Dr. Gerald L. Engel Virginia Institute of Marine Science Gloucester Point, Va. 23062 (804-642-2111)			

# 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 LC101		Program used to convert from LCRAN C coordinant to Lat. & Long.
Latitudinal Hemisphere	N or S			
Longitudinal Hemisphere	E or W			
Station time	GTM to nearest tenth of an hour	Wrist watch checked daily with W/V		
Water depth	to nearest tenth of a meter	Hydroproducts PDR		
Water sample depth	to nearest meter	CTD Reil Brown MK III		
Surface water temperature	°C to nearest tenth	Mercury in glass stem thermometer		
Barometric pressure	millibars, hundreds to tenths	Barograph-Castella of London		
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 compass		
Wind speed	knots	Anemometer Taylor Wind-scope Model 3105		
Wave direction	tens of degrees WMO code 0877	Ship's compass - Visual observation		
Wave height	1/2 meters WMO code 1555	Visual observation		
Swell direction	tens of degrees WMO code 0877	Ship's compass - visual observation		
Swell height	1/2 meters WMO code 1555	Visual observation		
Weather	WMO code 4677	Visual observation		
Cloud type	WMO codes 0513, 0515, 0509	Visual observation		
Cloud cover	WMO code 2700	Visual observation		
Visibility	WMO code 4300	Visual observation		
Wave period	seconds	Wrist watch - Visual observation		

## B. SCIENTIFIC CONTENT

[illegible]

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

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

804-642-2111

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) VCM 215 Va. Inst. of Marine Sc. Zooplankton (008) BLM04W  File Label: Zooplank. 77/04/24
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 356 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES 86 13. LENGTH OF BYTES IN BITS 8

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	"008" file type (zooplankton)
File Date	4	6	Bytes	3I2	Year, month, day of file generation
Record Type	10	1	Chars	A1	"1" (File Header record)
Vessel	11	11	Chars	11A1	Vessel name (left-justified)
Cruise	22	6	Chars	6A1	Originator's cruise identify (left-justified)
Cruise Dates	28	17	Bytes	5 (I2,A1) I2	XX/XX/XX-XX/XX/XX Beginning year, month, day- Ending year, month, day
Senior Scientist	45	19	Chars	19A1	(left-justified)
Investigator	64	23	Chars	23A1	Investigators & Institution responsible for data.

# 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	"008" file-type (Zooplankton)
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, "E" or "W"
Date	34	8	Bytes	2(I2,A1)I2	xx/xx/xx Sample date, (year, month, day)
Tow Start Time	42	3	Bytes	F3.1*	GMT in hours
Tow Duration	45	3	Bytes	I3	minutes
STEMP	48	3	Bytes	F3.1*	Surface water Temperature(°C)
SSALIN	51	3	Bytes	F3.1*	Surface Salinity(parts per thou)
Tow Max. Depth	54	4	Bytes	I4	Maximum depth of sampling gear (meters)
Gear	58	2	Bytes	I2	Code of gear used (see attached codes)
Replicates	60	2	Bytes	I2	Number of replicates in the Samples
Mesh	62	4	Bytes	I4	Net mesh size (microns)
Type Tow	66	1	Bytes	I1	Type of Tow: 1-Vertical, 2-oblique, 3-stepped oblique, 4-horizontal, discrete, 5-horizontal, open on descent and/or ascent
Flow	67	5	Bytes	F5.1*	Volume of water sampled(cubic meters)
Navigation	72	2	Bytes	I2	Navigation method (see attached codes)
Depth	74	4	Bytes	I4.1*	Total water column depth at start of tow (meters)
Individuals	78	6	Bytes	I6	Number of individuals (blank if not given)
Species	84	3	Bytes	I3	Number of species (blank if not given)

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

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	73	Bytes	73X	Blank
Sample Header Record 2					
File Type	1	3	Chars	A3	"008" (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	31	Bytes	31X	Blank
					*Decimal place is IMPLIED; "period" is not present

## 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"</u>	<u>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	73	Bytes	73X	
<u>Data Record</u>					
File Type	1	3	Chars	A3	"008" (constant) year, month, day of file generation
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 Species code (VIMS code) Number of individuals Order of Magnitude Blank
Sample	14	5	Chars	5A1	
Species	19	10	Bytes	I10	
Count	29	5	Bytes	I6	
Order of Mag	34	1	Byte	I1	
Blank	35	52	Bytes	52X	
<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	73	Bytes	73X	
<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	73	Bytes	73X	



### 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

### Gear:

- 01-one meter conical net
- 02-1/2 meter conical net
- 03-Clark-Bumpus (5")
- 04-Miller High-Speed sampler (5")
- 05-Bongo sampler (8")
- 06-Bongo sampler (1/2 meter)
- 07-Bongo sampler (24")
- 08-Neuston net, PNS (Zaitsev-type)
- 09-Neuston net, simple rectangular
- 10-Neuston net, WHOI-type
- 11-Clarke-Bumpus 12"

## 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 (IMFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
Neil Brown Inst. CTD MK III	July, 1976	✓			✓				
Beckman Minds D. O. Sensor	July, 1976	✓			✓				
Beckman Inductive Salinometer RS 7B	Dec. 1975	✓		* ✓ Annually					

# RECORD FORMAT DESCRIPTION

RECORD NAME 77-0324 ; 77-0325 Zooplankton

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
				(1)	TR1307 RECORD <u>008</u> WAS ELIMINATED
(1)	77-0324	LAT & LONG FOR SAMPLES			
	D1190	390624N	735506W		
	F2161	384548N	730618W		
	J1149	383918N	730448W		
	J1150	383842N	730542W		
	J1947	384130N	730442W		
	J1948	384142N	730600W		
(2)	FOR SAMPLES C1177, D1185, E316P, E3206, F2158 J1149 N 3195 - TOW START TIME OVER 239 - IF OVER 240, I Added to DAY & 240 MINUS FROM TOW START TIME				
(3)	DEPTH FOR STATIONS J1155, J1156 & J1154 WAS CHANGED TO 370				
77-0325	(1) TOW STARTS TIMES ALSO CHANGED FOR STATIONS C1222, D1226, E3246, F2255, J1266 AND N3236				
					77-0325
				(1)	DATES CHANGED FROM 76/08/32 to 76/09/01 FOR STATIONS SAMPLES C1213 C1214 C1215

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 7700325

- 1) File Type: F008 (converted to F124)  
2) Project Ident.: VIMS-PCS  
3) Track Nos.: TR1347

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

1. Date - 760832 - changed to 760901

III. Processor Name:

MARY R. Lewis

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
VATOR TAPE	2/23/83	<del>MR</del>	VC M215	3	86	86	
/SCAN TAPE	2/23/83	<del>MR</del>	001815	3	86	86	
ED FOR PROCESS.							
EVALUATION	2/6/84	<del>MR</del>					
ITY REVIEW	2/6/84	<del>MR</del>					
IMINARY DATA SORT							
IMINARY MULCHEK	2/3/84	<del>MR</del>	DNOD EX MARY TR1307A/F124				
ST USER TAPE							
K DISK FILE	2/3/84	<del>MR</del>					2915
AL USER TAPE	<del>2/2/84</del>	<del>MR</del>					<del>2915</del>
AL MULCHEK	2/7/84	<del>MR</del>					2915
TED DISK FILE							
A SET "FINALIZED"							

## TAPE ASSIGNMENT SHEET

ACCESSION NO.: 7700325 TRACK NO(s): TR1307

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	VCN215	SL	86	86	9- <del>u</del> 1600 BPI EBCDIC	
Duplicate	001815	SL	86	86	9- <del>u</del> 1600 BPI ASCII	
Reformatted						
First User						
Final User						
<del>to</del> DISK File	DNDIC * MARY. TR1307A / K124					2915 records

•  
Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
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7700325	F124	TR1307	0084	3128	32VS	1976/09/01	BLM04W	303824

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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7700325	F124	TR1307	32VS	61	2915	76/09/01	76/09/09

(1 row affected)