NOAA FORM 24-13 (4-72)

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCK VILLE, MARY LAND 20852

FORM APPROVED O.M.B. No. 41-R2651

ISCOMM-1

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 COMP	LETED BY DONOR	FOR ALL	DATA TRA	HSMIT	TALS	•		
1. NAME AND ADDRESS OF IN	STITUTION, LABOR	ATORY, O	RACTIVIT	Y WITH	H WHICH SUBM	ITTED DATA	RE ASSOC	IATED
University of Wash	ington .		•					
Department of Ocean	nography							
Seattle, Washington	n 98105				•			
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4. PLATFORM NAME(S)	5. PLATFORM TYP	E(S)		_	NDOPERATOR	7. D.	ATES	
	(E.G., SHIP, BUO	Y, ETC.)	NATIO			+		
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OAA FORM 24-13

NOAA FORM 24-15

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMINIMETRIC ADMINISTRATION
NATIONAL OCEANICAND ATMINIMETRIC DATA CENTER
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A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COM			TINDENTITION TO THE			
1. NAME AND ADDRESS OF I					ITTED DATA A	RE ASSOCIATED
University of Wash Department of Ocea Seattle, Washingto	nography					• • • • • • • • • • • • • • • • • • •
2. EXPEDITION, PROJECT, C DATA WERE COLLECTED	R PROGRAM DURING	WHICH		IBER(S) JUSED I IS SHIPMENT	BY ORIGINATO	R TO IDENTIFY
Technical Report N	o. 113		DABIZ.			
Technical Report N			TR1397			**
4. 01	S. PLATFORM TYPE (E.G., SHIP, BUO		5. PLATFORM A		7, DA	TES
		.,,	PLATFORM	OPERATOR	FROM: MO/ AY/Y	TO: MO/DAY/Y
Hydah	Ship		u.s.	u:s.	10/29/60	10/30/60
8. ARE DATA PROPRIETARY	?		SE DARKEN ALL AINED IN YOUR			
IF YES, WHEN CAN THE				GENERAL AF	REA	***************************************
9. ARE DATA DECLARED NA PROGRAM (DNP)? (I.E., SHOULD THEY BE IN DATA CENTERS HOLDING TIONAL EXCHANGE?) [X]NO. []YES []PAH	TIONAL NOLUDED IN WORLD S FOR INTERNA-	136 128°	149" 150" 150" 150" 146	170 100 80 60	40° 20° 0° 70°	40° 50′ 80° 100° 27° 30° 40° 40° 40° 40° 40° 40° 40° 40° 40° 4
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FROM: 7 7 TO: 7		A. ORIG	HNATOR	IDENTIFICAT	ION		•
University of Washington Department of Oceanography Seattle, Washington 98105 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) PLATFORM OPERATOR 7. DATES NATIONALITY(IES) PLATFORW OPERATOR 7.	HIS SECTION MUST BE COM	PLETED BY DONOR F	OR ALL	DATA TRANSMIT	TALS	•	
Department of Oceanography Seattle, Washington 98105 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) (E.G., SHIP, BUGY, STC.) Hydah Ship B. ARE DATA PROPRIETARY? If yes, When Can they be released for General Use! If yes, When Can they be released for General Use! PROGRAM (DATA) 9. ARE DATA DECLARED NATIONAL PROGRAM (DATA) PROGRAM (DATA) 100 111. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 112. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 113. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 114. PROGRAM (DATA) PROGRAM (DATA) 115. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 116. SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TICNAL EXCHANGE!) 117. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	NAME AND ADDRESS OF IN	NSTITUTION, LABOR	ATORY, O	RACTIVITYWIT	H WHICH SUBMI	TTED DATA AF	RE ASSOCIATED
Seattle, Washington 98105 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Hydan Ship 11. PLEASE DARKEN ALL MARSOEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 15. PLATFORW 16. ARE DATA PROPRIETARY? 17. PLEASE DARKEN ALL MARSOEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 9. ARE DATA DECLARED NATIONAL PROGRAM IDNP!? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) X NO YES PART (SPECIFY HELDW)				•			•
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IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) X NO YES PART (SPECIFY BYLOW) GENERAL AREA .GENERAL AREA	. ARE DATA PROPRIETARY	??					
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THIS SECTION MUST BE COMPLET	ED BY DONOR F	FOR ALL D	DATA TRANSMIT	TALS		
1. NAME AND ADDRESS OF INSTIT	UTION, LABOR	ATORY, O	RACTIVITYWIT	н which submi	TTED DATA A	RE ASSOCIATED
University of Washingt Department of Oceanogr Seattle, Washington						•
2. EXPEDITION, PROJECT, OR PR DATA WERE COLLECTED	OGRAM DURING	WHICH		BER(S) USED B	BY ORIGINATOR	TO IDENTIFY
Technical Report No. 1	•		DAG14			
Technical Report No. 1	14		TR139	19		
4. PLATFORM NAME(S) 5. PI	≦(S) Y, !:TC.)	G. PLATFORM A			TES	
			PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YE
Hydah	Ship		u.s	u.s.	12/30/60	12/04/40
8. ARE DATA PROPRIETARY?			SE DARKEN ALL AINED IN YOUR			
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IF YES, WHEN CAN THEY, BE FOR GENERAL USE! YEAR				GENERAL AR	EA	
9. ARE DATA DECLARED NATION PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED ATA CENTERS HOLDINGS FOR TIONAL EXCHANGE?) [X]NO []]YES PART (SP)	DED IN WORLD' R INTERNA-	100 120 120 100 100 100 100 100 100 100	140 156 11.0 160 140	120" 100' 60" 60" 60"	40° 20° 0 20	40° 50° 80° 100°
10. PERSON TO WHOM INQUIRIES C DATA SHOULD BE ADDRESSED PHONE NUMBER (AND ADDRESS THAN IN ITEM-I) Eugene E, Collias	WITH TELE-	26 197 40 140 60 105		100 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	29 (21) 20 (21	15
Clifford A. Barnes		100° 126'	140° 166° 180° 160° 141	n 120° 106° 80 ° 60°	40° 120°, 0° 26"	40° 80° 100°

OAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 解码第二 FORM APPROVED O.M.B. No. 41-R2651

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. Realiable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

	A. ORIO	SINATOR	IDENTIFICAT	ION		
THIS SECTION MUST BE COMPLI	ETED BY DONOR	FOR ALL D	ATA TRANSMIT	TALS		
University of Washin Department of Oceand Seattle, Washington	gton graphy	ATORV, D	ACTIVITY WIT	н which suam	ITTED DATA A	RE ASSOCIATED
Z. EXPEDITION, PROJECT, OR DATA WERE COLLECTED Technical Report No. Technical Report No.	11.3	WHICH		BERIST USED I	BY ORIGINATO	R TO IDENTIFY
4. PLATFORM NAME(S) 5.	PLATFORM TYPE		S. PLATFORM AND OPERATOR 7. DATES			
			PLATFORM	OPERATOR	FROM: HOPE - /	TO: MO, DAY,
Hydah	Ship		u.s.	u.s.	12/10/60	12/11/60
B. ARE DATA PROPRIETARY! X NO YES IF YES, WHEN CAN THEY FOR GENERAL USE! YE 9. ARE DATA DECLARED NATH PROGRAM (DNP)! (I.E., SHOULD THEY RE INC! DATA CENTERS HOLDINGS FOR TIGNAL EXCHANGE!) X NO YES HART!	ONAL LUDED IN WORLD FOR INTERNA-		SE DARKEN AL AINED IN YOUR		ERE COLLECT	
DATA SHOULD BE ADDRESS! FHOME NUMBER (AND ADDRESS! FHOME NUMBER (AND ADDRESS! THIN IN FERMAL) Eugene E, Collias Clifford A, Barnes	ED WITH TELE-	# 30 July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140 - 150° 160° 160° 16	100 tov av ev	N 160000	
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NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED O.M.B. No. 41-R2651

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 I					····
University of Washington Department of Oceanography	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
Seattle, Washington 98105					
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E IS SHIPMENT	BY ORIGINATOR	R TO IDENTIFY
Technical Report No. 113		DA617			
Technical Report No. 114		TR1401			
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT		Α.	TES
		PLATFORM	OPERATOR	FROM: MO,DAY,YF	TO: MO/DAY/YE
Skiff Ship	:	U.S.	u.s.	02/04/61	10/24/61
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR	SUBMISSION W	ERE COLLECT	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH 9. ARE DATA DECLARED NATIONAL			GENERAL AF	REA	
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERMATIONAL EXCHANGE?) XX NO YES PART (SPECIFY BELOW)	100° 120° 278	146° 160° 180° 160° 140	120° 100° 80° 60° 263 200 227 227 222 227 222 131	40° 20° 0° 20° 57 25 3288 50 217 252	2844 279 279 243 243 243 269 212 207 69 °
	40° 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 134 6 13	165 160 160 124 129 124 1093 1088 1057 1052	155 119 119 047 047	2 (037 072	7 140 171 40° 7 140 099 20°
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	0° 026 328 7 7 20° 361 397 7 40° 433 469	122 016 3320 315 351 356 351 387 423 444 459	011 56 310 55 346 346 34 18 91 454 4 4	5 300 335 1 336 571 (7 372 407 408 443	027 00 027 00 031 0326 031 0326 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034 034
Eugene E. Collias Clifford A. Barnes	50° 505 541 577 100° 120°	500 495 536 531 572 567 140° 160° 180° 180° 140	520 520 52 562 550 50° 120° 100° 80° 60°	7 516/551 7552/587	511 506 50° 547 542 578 578 40° 60° 80° 100°
NOA4 FORM 24-13				্ একচে	DMM-C



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
Temperature	^O Centigrade	"Determined by use of accepted Oceanographic procedures"		
Salinity	100	•		
Si g ma-t		•		
Oxygen	ML/L	•		
Phosphate	Microgram-at/L	•		
			與 海 減 湿	
		•		

SCOMM-DC 44289-P71

LIST RECORD TYPES CONTAINED IN THE TRAM	
FILE HEADER RECORD - "1" in col. 1 FIRST STATION HEADER RECORD - "2" SECOND STATION HEADER RECORD - "3" DATA RECORDS - "4" in col. 10	in col. 10
GIVE BRIEF DESCRIPTION OF FILE ORGANIZA	TION
:	
XX FORTRA	LANGUAGE
RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER ADDRESS	
NAME AND PHONE NUMBER	MAGNETIC TAPE
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY	MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE	MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY ASCII XX EBCDIC	MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY ASCII XX EBCDIC NUMBER OF TRACKS (CHANNELS) SEVEN XX NINE	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
NAME AND PHONE NUMBER ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY ASCII XX EBCDIC NUMBER OF TRACKS (CHANNELS) SEVEN XX NINE PARITY XX ODD EVEN	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Data on tape is in card image dcb = (recfm+fb,lrecl+80,blksize=3200) DSN = AC680201 ,vol=ser=0076/C
ADDRESS COMPLETE THIS SECTION IF DATA ARE ON RECORDING MODE BCD BINARY ASCII XX EBCDIC NUMBER OF TRACKS (CHANNELS) SEVEN XX NINE PARITY XX ODD EVEN	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Data on tape is in card image dcb = (recfm+fb,lrecl+80,blksize=3200) DSN = AC680201 ,vol=ser=00761C

NOAA FORM 24-13

3

- Mancher Sallenome

USCOMM-DC 44289-P72

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

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004") 14. FIELD NAME 15. POSITION 16. LENGTH 17. ATTRIBUTES 18. USE AND MEANING FROM-1 (FORTRAN) in bytes MEASURED IN NUMBER (e.g., bits, bytes) File Header Record File Type 1 3 A3 "004" (constant) Track Number 4 6 6A1 NODC (in-house) Identifier Record Type 10 1 A1"1" (File Header Record) Vessel 11 11 11A1 (left aligned) Cruise 22 6 6AI Originator's Cruise Identifier Cruise Dates 28 17 5(I2,A1) I2 XX/XX/XX-XX/XX/XXBeginning Month, Day, Year; Ending Month, Day, Year Senior Scientist 45 19 19A1 (left aligned) Investigator 64 17 17A1 Responsible Institution (left aligned) NOAA FORM 24-13

FILE NAME: WATER PHYSICS and CHEMISTRY (File:Type "004") 14. FIELD NAME 15. POSITION 16. LENGTH 17. ATTRIBUTES 118. USE AND MEANING FROM-1 (FORTRAN) in butes MEASURED NUMBER (e.g., bits, bytes) First Station Header Record File Type 1 3 A 3 "004" (constant) Track Number 6AI NODC (in-house) Identifier "2" (First Station Header Record Type 10 1 AIRecord) Sequence 11 3 I2Sequence of this record type within station. (Leading zeros or leading blanks.) Station 14 5 5A 1 Station Identifier Latitude 19 6 312 Degrees, Minutes, Seconds Lathem AI25 1 Hemisphere "N" or "S" Longitude I3, 2I2 26 Degrees, Minutes, Seconds 33 AI onhem 1 Hemisphere "W" or "E" Time I3-GMT in hour to tenths 34 3 Date 37 2(I2,A1), I2 XX/XX/XX Station Date; Month, Day, Year Bottom 45 5 *I5* Water Depth, meters to tenths Navigation *I2* 50 2 (See attached codes) Method . (See attached codes) 52 1 II**Blank** 53 28 28X Blank

NOAA FORM 24-13

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004") 3 /5

14. FIELD NAME	15. POSITION FROM - 1.			1	TTRIBUTES PRTRAN)	18. USE AND MEANING
	MEASURED !N	in by	i		MIKHN)	
	(e.g., bits, bytes)	NUMBER				
Second Station I	leader Reco	rd				•
File Type	1	3		A3		"004" (constant)
Track Number	4	6		6A1		NODC (in-house) Identifier
Record Type	10	1		Al		"3" (Second Station Header Record)
Sequence	11	3		13		Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5		5A1		Station Identifier
Barometer	19	3		13		Pressure in millibars to tenths
Dry Bulb	22	4		I4		Air temperature; degrees Celsius to tenths
Wet Bulb	26	4		14		Air temperature; degrees Celsius to tenths
Wind Direction	30	. 2		12		WMO code 0877; tens of degrees
Wind Speed	32	2		12		Knots
Sea Direction	34	. 2		<i>12</i>		WMO code 0885; tens of degrees
Sea Height	36	1		A1		WMO code 1555
Swell Direction	37	2		12		WMO code 0885
Swell Height	39	1		Al·		WMO code 1555
Weather	40	1		I1		WMO code 4501
Cloud Type	. 41	1		Al		WMO code 0500
Cloud Cover	42	1		I1		WMO code 2700
Visibility	. 43	1		I.		WMO code 4300
Transparency	44	4		14		Secchi Disk Depth; meters to tenths
Turbidity Code	48	1		<i>I</i> 1		(See attached codes)
Blank	49	37		37X		Blank

14. FIELD NAME	15. POSITION FROM-1 MEASURED	in by	1	18. USE AND MEANING
	(e.g., bits, bytes)			
Data Record				-
File Type	1	3	А3	"004" (constant)
Track Number	4	6	6AI	NODC (in-house) Identifier
Record Type	10	1	A1	"4" (Data Record)
Sequence	11	3	<i>I3</i>	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Depth	19	4	14	Sample Depth; to tenths
Temperature	23	. 5	I5	Water Temp.; degrees Celsius to thousandths
Salinity	28	5	I5	Salinity; parts per thousand to thousandths
Sigma-T	33	4	I4	Sigma-t to hundredths
Transmissivity	37	3	I3	Transmissivity; percent to tenths
рН	40	3	<i>I3</i>	pH to hundredths
eН	43	4	<i>I4</i>	eH to hundredths
Oxygen	47	4	<i>14</i>	Dissolved; hundredths to ml./liter
Ammonia	51	3	I3	Tenths of microgram (ug)- atoms/liter
Nitrite	. 54	3	13	Hundredths of ug-atoms/liter
Nitrate	57	4.	14	Hundredths of ug-atoms/liter
Silicate	61	4	14	Hundredths of ug-atoms/liter
Phosphate	65	3	I3	Inorganic; hundredths of ug- atoms/liter
Solids	68	4	<i>14</i>	Suspended solids in hundredths of mg./liter
OAA FORM 24-13				•

RECORD FORMAT DESCRIPTION

•5 /5 FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004") 15. POSITION 16. LENGTH
FROM - 1 in hutes 17. ATTRIBUTES 18. USE AND MEANING 14. FIELD NAME MEASURED in bytes (FORTRAN) NUMBER (e.g., bits, bytes) Data Record (cont'd) Turbidity 72 4 I4Turbidity; in hundredths of mg./liter Chlorophyll; in hundredths of Chlorophy11 76 5 *I5* mg./meter3 NOAA FORM 24-13