DOF A:3:15

DATA DOCUMENTATION, FORM

TR6532-1R6579

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

F100

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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Dr. Herbert L. Webber

Huxley College of Env					
Western Washington St Bellingham, WA 9822					
beilingham, wa 9022	bellingham, wa your				
2. EXPEDITION, PROJECT, OR PROGR. DATA WERE COLLECTED	AM DURING WHICH		MBER(S) USED I	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound I	Project.		i	770428	, I
R.U. 106			į		l
	FORM TYPE(S) SHIP, BUOY, ETC.)	6. PLATFORM A NATIONALIT		1	TES
·		PLATFORM	OPERATOR	FROM: MODAY,Y	TO: MO/DAY/YR
,				04/28/77	04/28/77
8. ARE DATA PROPRIETARY?		SE DARKEN AL			
XX NO YES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.
IF YES, WHEN CAN THEY BE REL FOR GENERAL USET YEAR			GENERAL AF	REA	İ
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	199* 729*	140* 160* 180* 160* 140	r 120* 100* 60* 68*	40" 20" 8" 20"	40" 60" 60" 100"
(I.E., SHOULD THEY BE INCLUDED		1 Me 200	Like Side	\$ \$ \$P\$	284 () / 1/5 279
DATA CENTERS HOLDINGS FOR INT TIONAL EXCHANGE?)	l pe	237 232		© 2020	243
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	20.00	129 124 124 1088 1	110 12		104 135
10. PERSON TO WHOM INQUIRIES CONCI	1062 15	057 052 021 016	027 04	2 (897072	obs obs
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THAN IN ITEM-1)	, m	198 V 198	382 37	# 	463 398 20°
Michael L. Crane	40*	1 Es	64 33 4		67 470 49*
NOAA/Edis AEIDC	ap. 505	500 495	900	, , , , , , , , , , , , , , , , , , , 	511 506
707 A St.	541	536 531	526	1 516551	59 10
Anehorage, AK 99501 Ph: (907) 279-4523	577 100° 120°	148° 183° 180° 180° 14	542 555 2° 120° 100° 60° 60°	40° 70° 9° 20°	583 578 40° 60° 50° 100°
NOAA FORM 24-13					
HAND LAUM FALIS				USCO	DMM-DC 44289-P72

IAPE OR DISK ASSIGNMENT SHEET (MRL) 11/6/78 (Rev. 11/80)

CESSION/TRACK NO.: 8/00068 TR6532 - 6579

,.PE OF	TAPE			32 - 65		T.	,
TAPE	NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
RIGINATOR	JBR004	NL	88	4000	FB		
OUPLICATE	000789	54	80	80	F		
FORMATTED						-	
FIRST							
FINAL USER					-		
SK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DIIM	RL *	F/00 A	R653	2		29,590
EDITED DISK FILE		-					

	DATE:	
	TO:	
	FROM:	
	SUBJ. J.: Error Correction in Processing of Data C	et - Accession # 8100068
		•
	1) File Type:	
	2) Project Ident.: MESA	25
	3) Track Nos.: TR 6532 - 6	579
		*
	I. Error Corrections as reported to Principal In	vestigator:
•		orrection Complete: (Check)
	·. ————————————————————————————————————	
		**
	II. Additional error corrections:	•
	Ecror	Correction Complet A (Check)
	1 11/10	·
	bee attacked	
	<u>.</u>	
J	•	
	III. Processor Name: MARY R.LEWS	F5_

Corrections 8/00068 TR 65 32-65 79 1. Weight of intertidal values of -99899 were deleted.

2. Regature sinkertital spices aunt were deleted.

3. TR 6565 - evroneous values of thomp (85.3°C)
and zero (0) palinity were deleted.

4. Portions of tracks 6576 and 6577 were dut of squence - corrected.

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

	_	1 (0		11		
Record	Туре	-	n Header Record			
11	11		nt Size Analys:			
11	11	3 (Biological Sample Description) 4 (Species Identification Record)				
11	11	7 (Text R		on Record)		
		/ (Text Ki	ecorq)			
				· · · · · · · · · · · · · · · · · · ·		
SIVE BRIEF	DESCRI	PTION OF FIL	E ORGANIZATION			
	quence	numbers		gth. Record types are sorted by station er. Each record type is a new station		
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				•		
ATTRIBUTES	S AS EX	PRESSED IN	∏pL•1 [ALGOL COBOL		
ATTRIBUTES	S AS EX	PRESSED IN	PL-1 FORTRAN	ALGOL COBOL LANGUAGE		
ATTRIBUTES	S AS EX	PRESSED IN		=		
			FORTRAN	=		
RESPONSIBL	E COMF	PUTER SPECIA	FORTRAN [LANGUAGE		
RESPONSIBL NA	E COMF	PUTER SPECIA PHONE NUMI	FORTRAN ALIST: BER <u>Michael</u>	Language L. Crane (907) 279-4523		
RESPONSIBL NA	E COMF	PUTER SPECIA PHONE NUMI	FORTRAN ALIST: BER <u>Michael</u>	LANGUAGE		
RESPONSIBL NA AD COMPLET	E COMF ME AND DRESS	PUTER SPECIA PHONE NUMI NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u>	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501		
RESPONSIBL NA AD COMPLET	E COMF ME AND DRESS	PUTER SPECIA PHONE NUMI NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 JETIC TAPE S. LENGTH OF INTER-		
RESPONSIBL NA AD COMPLET	E COMF ME AND DRESS	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501		
RESPONSIBL NA AD COMPLET	E COMF ME AND DRESS	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH		
RESPONSIBL NA AD COMPLET	E COMF ME AND DRESS	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 JETIC TAPE S. LENGTH OF INTER-		
RESPONSIBL NA AD COMPLET RECORDING	E COMF ME AND DRESS TE THIS MODE	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH		
RESPONSIBL NA AD COMPLET RECORDING	E COMF	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	Language L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17		
RESPONSIBL NA AD COMPLET RECORDING	E COMF	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17		
RESPONSIBL NA AD COMPLET RECORDING	E COMF	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17		
RESPONSIBL NA AD COMPLET RECORDING	E COMF	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17 II. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)		
COMPLET RECORDING	E COMF	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E BCD ASCII SS SEVEN XX NINE	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 BETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION)		
RESPONSIBL NA AD COMPLET RECORDING NUMBER OF (CHANN	E COMF	PUTER SPECIAL PHONE NUMBER NOAA/EDIS	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770428		
RESPONSIBL NA AD COMPLET RECORDING NUMBER OF (CHANN	E COMF	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E BCD ASCII SS SEVEN XX NINE	FORTRAN ALIST: BER <u>Michael</u> S, AEIDC, 707 DATA ARE ON MAGN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770428 77/04/28 WEBBER		
RESPONSIBL NA AD COMPLET RECORDING NUMBER OF (CHANN	E COMF	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E BCD ASCII SEVEN XX NINE ODD EVEN	FORTRAN ALIST: BER Michael S, AEIDC, 707 DATA ARE ON MAGN BINARY XX EBCDIC	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770428		
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RESPONSIBL NA AD COMPLET RECORDING NUMBER OF (CHANN	E COMF	PUTER SPECIA PHONE NUMI NOAA/EDIS SECTION IF E BCD ASCII SEVEN XX NINE ODD EVEN	FORTRAN ALIST: BER Michael S. AEIDC, 707 DATA ARE ON MAGN BINARY XX EBCDIC	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770428 77/04/28 WEBBER		

NOAA FORM 24-18

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225					
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED		IBER(S) USED E	Y ORIGINATOR	TO IDENTIFY	
NOAA, MESA Puget Sound Project R.U. 106			770407		
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES
	, _ , _ ,	PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YR
				04/07/77	04/07/77
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USET YEAR MONTH		GENERAL AREA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	180° 120°	140° 180° 180° 180° 146	* 120° 100° 60° 60°	40° 20° 8° 20°	40° 80° 80° 100°
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)	242	231 222	227	\$ 532ss	200 200 200 200 200 200 200 200 200 200
NO XX YES PART (SPECIFY BELOW)	206 170 40° 334 20°	201	101 125 125 126 110 124	073 108	7 140 135 40°
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St.	905 104 105	057 052 052 071 016 016 016 016 016 016 016 016 016 01	047 049 049 049 049 049 049 049 049 049 049	900 034 300 035 334 571 (372 407) 408 443	100 20 107 1
Anchorage, AK 99501 Ph: (907) 279-4523	100" 120"	148° 180° 180° 140	- 150. 100. 80. 80. 251	40° 20° 6° 20°	583 578 40° 60° 80° 180°

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				
Record I	" 2 " 3 " 4	(Sediment (Biolog)	n Header Record) nt Size Analysis ical Sample Desc s Identification ecord)	Record)	
2. GIVE BRIEF DE	ESCRIPT	ION OF FIL	E ORGANIZATION		
and sequ	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.				
4. RESPONSIBLE	ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501				
	•				
		CTION IF	DATA ARE ON MAGNE		
5. RECORDING M	ODE	BCD ASCII	BINARY XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17	
6. NUMBER OF T					
(CHANNEL	_S)	SEVEN		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE	
	•	XXNINE		ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)	
		U		4.4.4.1.0.0	
7. PARITY 8. DENSITY		VY ODD EVEN		106 100 770407 '77/04/07 WEBBER 9TRK,1600BPI, ODD, EBCDIC	
		200 80	XX 1600 BPI	Sand State of the Court of the	
				·	
		556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES	
		800 BPI		4,000 characters/block	
				13. LENGTH OF BYTES IN BITS	
NOAA FORM 24-13	,			USCOMM-DC 44289-P72	

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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Dr. Herbert L.	Webber					
Huxley College	of Environmen	tal Stud	iies			
1	gton State Uni					
Bellingham, WA		•				ľ
						
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		IBER(S) USED E IS SHIPMENT	BY ORIGINATO! 	R TO IDENTIFY
NOAA, MESA Puget	Sound Project		<u> </u>		770430	
R.U. 106	bound froject				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1 8.0. 100					į.	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	ND OPERATOR Y(IES)	<u> </u>	TES
·			PLATFORM	OPERATOR	FROM: MODAY,YI	TO: MO/DAY/YR
					li .	į.
					04/30/77	04/30/77
						, 07, 30, 1,
B. ARE DATA PROPRIETARY			E DARKEN AL			
XXNO YES		CONT	AINED IN YOUR	SUBMISSION WI	ERE COLLECT	ED.
XXNO TES						1
IF YES, WHEN CAN TH		GENERAL AREA				
FOR GENERAL USER		<u>-</u>				
PROGRAM (DNP)?	HORAL	189* 129* 1	40° 160° 160° 166° 146	120" 100" 60" 60"		40" 80" 90" 100"
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS	CLUDED IN WORLD	778	200	Con Test	\$ 233200 G	224 (1) 1279
TIONAL EXCHANGE?)	FOR INTERNA-	242	257 252		2020	240 240
		2006		d los Tolas	1	212 207
NO XX YES PART	「(SPECIFY BELOW)	170	165 160	17 155 25 13	▎▕▗ ▗ ▗ ▗▗ ▗	2762 9 171
,		40. 134 4.85	120 124	119 114		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		20.	093 088 052 052 052 052 052 052 052 052 052 052	OF CONTROL OF	(073)10E	104 pp 20 -
10. PERSON TO WHOM INQUIRE			021 016		703,036	027 027 a.
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD			1 351 351 351	910 905 346 341		951 362
THAN IN ITEM-1)			392 387	342 377		403 398 20
Michael L. Crane	,	40-	100 00 00	122 105 654 8 1049		67 600
NOAA/Edis		505	900		 - - - - - - - - - - - - - - - - - - -	511 506
AEIDC 707 A St.		♥ [] + }	╏╏╏ ╏	 	┡╸╏╶╏ ╴╏╌╏	
Anehorage, AK 9950	1		536 531		516551	
Anehorage, AK 9950 Ph: (907) 279-4523	_	100° 120°	1 <u>1 194 7 (1997 (</u> 140° 160° 160° 140	- 150- 160- 89- 69-	40° 20° 0° 28°	583 578 40° 60° 60° 100°
NOAA FORM 24-13				 		2MM-DC 44380-B73

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				
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)				
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION				
Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.				
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN 4. RESPONSIBLE COMPUTER SPECIALIST:	ALGOL COBOL LANGUAGE			
NAME AND PHONE NUMBER <u>Michael L.</u> Address <u>NOAA/EDIS, AEIDC, 707 A</u>				
ADDRESS NORA/EDIS, ACIDC, /U/ A	Street, Anchorage, An 99301			
COMPLETE THIS SECTION IF DATA ARE ON MAGNET	TIC TAPE 19. LENGTH OF INTER-			
BCD BINARY	RECORD GAP (IF KNOWN) XX 3/4 INCH			
ASCII XX EBCDIC	10. END OF FILE MARK			
	OCTAL 17			
6. NUMBER OF TRACKS (CHANNELS) SEVEN				
XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS			
	OF DATA TYPE, VOLUME NUMBER)			
7. PARITY	106 100 770430			
XX ODD				
EVEN .	77/04/30 WEBBER 9TRK,1600BPI, ODD, ERCDIC			
200 BPI XX 1600 BPI	I ve			
556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES			
800 BPI	4,000 characters/block			
	13. LENGTH OF BYTES IN BITS			
<u> </u>				

NO A A FORM 24-13 U5COMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE NAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION ROCKVILLE, MARYLAND 20862 NATIONAL

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

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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY						
NOAA, MESA Puget Sound Project R.U. 106				IS SHIPMENT	770408	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO)	E(S) Y, <i>ETC</i> .)	6. PLATFORM A NATIONALIT		7. DA	TES
• .			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
				·	04/08/77 -	04/08/77
8. ARE DATA PROPRIETARY	· · · · · · · · · · · · · · · · · · ·		SE DARKEN ALI			
XXNO TYES		CORT	AINED IN 100K			
FOR GENERAL USET		GENERAL AREA				
9. ARE DATA DECLARED NAT PROGRAM (DNP)?	TIONAL	100" 129" 1	MG- 160- 160- 160- 140	. 138. rot. 60. 60.	40" 20" 6" 20" 4	10° 68° 80° 100°
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PART	FOR INTERNA-	278 - 262 - 208 - 170 -	237 232 237 232 237 232 24 260 128 124 128 124 127 128 127 128	227 227 227 227 227 23 24 24 24 24 24 24 24 24 24 24 24 24 24	100 100 (073 108 (657 1072	284 (1) 270 212 207 212 207 216 207 110 207 100 20°
O. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523		8° 32 7° 32 8° 32	221 016 350 315 350 351 350 351 350 351 350 445 350 445 350 455 350 455 465 459 465 459 465 459 465 459 465 459 465 459 465 459 466 459 467 468 468 468 468 468 468 468 468 468 468	310 356 356 341 357 377 441 - 753 352 357 377 355 355 355 355 355 355 355 355	901 034 300 335 336 371 377 407 408 443 444 474 400 715 514 551	027 07 07 07 07 07 07 07
NOAA FORM 24-13					11500	MM-DC 44330-B73

	PES CONTAINED IN THE TRANSMIT IDENTIFYING EACH RECORD TYPI					
Record Typ """ """"	e 1 (Station Header Recor 2 (Sediment Size Analys 3 (Biological Sample De 4 (Species Identificati 7 (Text Record)	is Record) escription)				
2. GIVE BRIEF DESC	RIPTION OF FILE ORGANIZATION					
and sequen	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.					
NAME A	FORTRAN MPUTER SPECIALIST: ND PHONE NUMBER <u>Michael</u>	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501				
COMPLETE THE	IIS SECTION IF DATA ARE ON MAGI	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK				
6. NUMBER OF TRA	CKS					
(CHANNELS)	SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)				
7. PARITY	TY ODD	106 100 770408 77/04/08 WEBBER				
8. DENSITY		9TRK,1600BPI, ODD, EBCDIC				
	200 BPI XX 1600 BPI	the second of th				
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES				
	800 BPI	4,000 characters/block				
		13. LENGTH OF BYTES IN BITS				
	U	-				
NOAA FORM 24-13		USCOMM-DC 44289-P7				

NOAA FORM 24-13 (4-72) 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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSO				RE ASSOCIATED	
Dr. Herbert L. Webber	Dr. Herbert L. Webber				
Huxley College of Environmen	tal Stud	dies			
Western Washington State Uni					
Bellingham, WA 98225					
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E	Y ORIGINATOR	TO IDENTIFY
DATA WERE COLLECTED		I DATAIN IN	IIS SHIPMENI	. 1	1
NOAA, MESA Puget Sound Project				770419	
R.U. 106		İ		·	
		Ì			
	<u></u>				
4. PLATFORM NAME(S) 5. PLATFORM TYPI (E.G., SHIP, BUO		6. PLATFORM /	AND OPERATOR 'Y(IES)	7. DA	TES
(- 1, - 1, - 1, - 1, - 1, - 1, - 1, - 1	-,,	PLATFORM	OPERATOR	FROM: MODAY,YF	TO: MO/DAY/YR
					
		}		}	}
			ĺ.	04/19/77	04/19/77
8. ARE DATA PROPRIETARY?	144 54 54				
6. ARE DATA PROPRIETARY?		SE DARKEN AL AINED IN Y <i>o</i> ur			
XXNO YES					
AT A TO WILLIAM CAN THE AT THE AT THE	•		OFMERAL AR	\ 	ļ
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		•	GENERAL AR	EA	
9. ARE DATA DECLARED NATIONAL					
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD		100° 100° 100° 100° 144	1 130 100 53 60°	40- 20- 6- 20-	
DATA CENTERS HOLDINGS FOR INTERNA-				977	284 (1) 279
TIONAL EXCHANGE?)	24	77	277 77 37 222	Pansal le	745 243
NO XX YES PART (SPECIFY BELOW)	206	4 1	101 Yu		212 207
	40- 170	165 160	155		2762 9 171
		27 129 124 124 1093 1088	119 114		7 140 135
	***************************************	057 052	047 5 2 042	037 072	7 00 7
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-		021 016 320 315	310 (305	300(335)	631 326 e-
PHONE NUMBER (AND ADDRESS IF OTHER	a. M	V 301	346 340		367 362 20.
THAN IN ITEM-1)		307	382 577 418 5 863	372 407	100 000
Michael L. Crane	40" 466	944 d 159	54 8 5 44		677 470 48*
NOAA/Edis	BO- 205	900 495	000 9 02	, 480515	511 506
AEIDC 707 A St.	541	534. 531	526	516551	547 547
Anehorage, AK 99501 Ph: (907) 279-4523	577	572	562 557	55256	533
Ph: (907) 279-4523	100" 120"	148- 160- 168- 160- 140	. 150. 100. 60. ED.	40. 20. 6. 50.	49. 40. 86. 700.
NOAA FORM 24-13	<u></u>			11400	MM-DC 44289-D72

	LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE GIVE METHOD OF IDENTIFYING EACH RECORD TYPE			
11 11	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)		
2 GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION			
Z. GIVE BRIEF DESCRI	THON OF FILE ONGANIZATION			
Each record and sequence header recor	numbers for proper order	ch. Record types are sorted by station c. Each record type is a new station		
3. ATTRIBUTES AS EXF	PRESSED IN PL-1	ALGOL COBOL		
	UTER SPECIALIST: PHONE NUMBER <u>Michael L.</u> NOAA/EDIS, AEIDC, 707 A			
COMPLETE THIS	SECTION IF DATA ARE ON MAGNE	TIC TAPE		
5. 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		
6. NUMBER OF TRACK		1 🗆		
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)		
		OF DATA TIPE, VOLUME NUMBER)		
7. PARITY	ODD EVEN	106 100 770419 77/04/19 WEBBER		
8. DENSITY	200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC		
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES		
	800 BPI .	4,000 characters/block		
		,		
		1 4 to 1		
NOAA FORM 24-13		USCOMM-DC 44289-P7:		

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LAB	RATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
Dr. Herbert L. Webber					
Huxley College of Environmental Studies					
Western, Washington State U Bellingham, WA 98225	itversity				
		Ta - 12		==	
2. EXPEDITION, PROJECT, OR PROGRAM DURI DATA WERE COLLECTED	NG WHICH		MBER(S) USED I IIS SHIPMENT	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound Projec	<u>-</u>			770406	
R.U. 106		†		110700	
				1	
4. PLATFORM NAME(S) 5. PLATFORM TY (E.G., SHIP, B		6. PLATFORM	AND OPERATOR	7. DA	TES
,2.5, 5,111, 2	,,	PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
		1		04/06/77	04/06/77
B. ARE DATA PROPRIETARY?	11 PLEA	SE DARKEN AL	MARSOEN SO	UARES IN WHIC	L ANY DATA
				ERE COLLECT	
XXNO YES					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH_			GENERAL AR	REA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100" 120"	140° 160° 180° 140° 140	r 120° 100° 80° 80°	40° 20° 0° 20° (40° 60° 100°
(I.E., SHOULD THEY BE INCLUDED IN WORL DATA CENTERS HOLDINGS FOR INTERNA-	o man	740 200	1000 MB	\$ 259249	270 270
TIONAL EXCHANGE?)	262	27		C Puzzy P	243
NO XX YES PART (SPECIFY BELOW)	204	4-1	393	Silve	212 207
	40- 120	120 124	119 114	100 100	176 2 171
	n. 1	073 D86	00 5 00		277
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-		121 016 220 015	911 9 Ga	300339	032 027 631 326
PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I)	20" 361	V 336 4 351	346 341	336371	967 362 403 398
Michael L. Crane	40 00		410 / 102	10046	G9 G4
NOAA/Edis	469 Sps	500 695	G4 8 44	 	511 506
AEIDC 707 A St.	80°	536 531	526	516531	547 542
Anchorage, AK 99501 Ph: (907) 279-4523	27	m -	542 557	55250	583 578
Fil. (90/) 2/9-4323	100" . 120"	148° 180° 180° 180° 140	r 120° 160° 80° 60°	40" 20" 0" 20"	40° 60° 80° 100°
NOAA FORM 24-13				USCO	MM-DC 44289-P72

		IN THE TRANSMITT.	AL OF YOUR FILE			
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)						
2. GIVE BRIEF DES	CRIPTION OF FIL	E ORGANIZATION				
and seque	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.					
4. RESPONSIBLE CO	ALGOL COBOL FORTRAN LANGUAGE 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501					
COMPLETE T	HIS SECTION IS F	DATA ARE ON MAGNI	ETIC TAPE			
5. RECORDING MOD		BINARY XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17			
6. NUMBER OF TRA (CHANNELS)			11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)			
1			- Similar in a final managery			
7. PARITY 8. DENSITY	XX ODD EVEN		77/04/06 WEBBER 9TRK,1600BPI, ODD, EBCDIC			
J. DENSITY	200 881	XX 1600 BPI	CONTRACTOR OF THE ACTION OF TH			
1	_		12 DUVIGAL DI OCI I TICTUM			
	556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block			
	800 BPI		13. LENGTH OF BYTES IN BITS			
NOAA FORM 24-13		· · · · · · · · · · · · · · · · · · ·	USCOMM-DC 44289-P7			

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED					
Dr. Herbert L. Webber					
Huxley College of Environmental Studies					
	Western Washington State University				
Bellingham, WA 98225		•			
2. EXPEDITION, PROJECT, OR PROGRAM DURING	WHICH	19 CRILISE NUM	REDIST LISED E	Y ORIGINATOR TO IDENTIFY	
DATA WERE COLLECTED			IS SHIPMENT		
NOAA, MESA Puget Sound Project				770822	
R.U. 106				11 VOLE	
K.01 200					
			·	· · · · · · · · · · · · · · · · · · ·	
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A	ND OPERATOR Y(IES)	7. DATES	
		PLATFORM	OPERATOR	FROM: MO DAY YR TO: MO DAY YR	
1		1		ļ	
			·	08/22/77 08/22/77	
'				00,22,77	
8. ARE DATA PROPRIETARY!				UARES IN WHICH ANY DATA	
XXINO TYES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECTED.	
	}			}	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH			GENERAL AR	REA	
9. ARE DATA DECLARED NATIONAL	190* 190*		* 170° 100° 50° 50°		
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD	T POTE	- 100 100 100 100 100 100 100 100 100 10	120° 100° 80° 80°	THE STATE OF THE S	
DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?)	[] 				
TIONAL EXCHANGE?	80. 242		27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	21723 1243	
NO XX YES PART (SPECIFY BELOW)	206	41 2017	191	1872163-17 212 207	
	40. 170	120 120	119 114	16 100 0 171 45°	
	20.	093 088	1 00 () 371	073 306 104 099	
10. PERSON TO WHOM INQUIRIES CONCERNING		057 052 021 016	007 000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER		320 315 W 366 3 361	310 305	300339 531 126	
THAN IN ITEM-1)		351 362 387 423	382 377		
Michael L. Crane	40- 403	464 \$ 659		}- - - - - - - - - - - - - - - - - - - 	
NOAA/Edis	505	500 #5	m	480535 9331 506	
AEIDC 707 A St.	80.	536 531	526	516551 547 592	
Anehorage, AK 99501	 	572 - 567	562 557	552 547 563 578	
Ph: (907) 279-4523	100° 120°	148" 189" 180" 160" 146	. 150. 100. 20. 6 0.	40" 20" 6" 20" 40" 60" 80" 100"	
NOAA FORM 24-13	L			USCOMM-DC 44289-P72	

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

LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE						
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis " " 3 (Biological Sample Desc " " 4 (Species Identification " " 7 (Text Record)	s Record) cription)					
GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION						
Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.						
ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279~4523						
ADDRESS NOAA/EDIS, AEIDC, 707 A						
RECORDING MODE BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH					
NUMBER OF TRACKS	10. END OF FILE MARK					
(CHANNELS) SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)					
PARITY TO DD EVEN	106 100 770822 77/08/22 WEBBER					
DENSITY 200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC					
556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS					

NOAA FORM 24-13 USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

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Dr. Herbert L.	Webber				
Huxley College of Environmental Studies					
Western Washin	gton State Uni	versity			
Bellingham, WA	98225	•			
2 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			Ta		
2. EXPEDITION, PROJECT, OF DATA WERE COLLECTED	R PROGRAM DURING	WHICH		MBER(S) USED E	BY ORIGINATOR TO IDENTIFY
NOAA, MESA Puget	Sound Project				770701
R.U. 106			ļ		
4. PLATFORM NAME(S)	5. PLATFORM TYPE			ND OPERATOR	7. DATES
	(E.G., SHIP, BUO	Y, ETC.)	NATIONALIT		NO DAY VEL MO DAY VE
[i	PLATFORM	OPERATOR	FROM: MODAY,YR
1				i	
!				ļ	07/01/77 07/01/77
				<u> </u>	
8. ARE DATA PROPRIETARY?	•				UARES IN WHICH ANY DATA ERE COLLECTED.
ZY ON KK		00			
15 V-2 W11-11 CA11 -11					
IF YES, WHEN CAN THE FOR GENERAL USE? Y				GENERAL AR	ie A
9. ARE DATA DECLARED NAT	TIONAL		400 1000 1001 1001 140	4 1981 1881 1981 1981	400 940 80 900 400 800 900 1000
(I.E., SHOULD THEY BE IN	CLUDED IN WORLD	774		1/24/15/2015	1 5 25 25 1 25 K 1/2 5 270
DATA CENTERS HOLDINGS				4	
TIONAL EXCHANGE?)		99 242		27 3 4 3 72	20/25 7 1/65 25
NO XX YES PART	(SPECIFY BELOW)	206	4 1	101 10	212 207
		40.	129 124	119 114	10 100 100 100 100 100 100 100 100 100
	·		079 124 124 128	110 114	104 099 and
10. PERSON TO WHOM INQUIRE	ES CONCERNING	" M	057 052 021 016	200	037072 045
DATA SHOULD BE ADDRES	SED WITH TELE-		320 315	310 505	300)335\ 331 326
PHONE NUMBER (AND ADD. THAN IN ITEM-1)	KESS IF OTHER	** 3	356 3 351	382 377	372 407 403 392 200
Michael L. Crane		40		418 2 2015	2014G G9 E34 60°
NOAA/Edis		468	944 B 69	54 8 649	
AEIDC 707 A St.		so•	900 495	670 G85	1 , 480515 511 506 eg·
707 A St. Anehorage, AK 9950	1	547	536 531	526 221	516551 542 542
Anehorage, AK 9950 Ph: (907) 279-4523	•	[577] [00° 120° 1			40° 20° 2° 20° 40° 40° 80° 100°
NOAA FORM 24-13					USCOMM-DC 44289-P72

	CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE				
11 11 11 11 11	Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record)					
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION					
and sequence	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.					
4. RESPONSIBLE COMP	ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501					
	SECTION IF DATA ARE ON MAGNE					
5. RECORDING MODE	BCD BINARY ASCII XXEBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17				
6. NUMBER OF TRACKS (CHANNELS)	S SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)				
7. PARITY 8. DENSITY	YYODD EVEN	77/07/01 WEBBER 77/07/01 WEBBER 77/07/01 WEBBER				
	200 BPI XX 1600 BPI 556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS				
NOAA FORM 24-13		USCOMM-DC 44289-P7:				

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20882

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABOR	1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED				
Dr. Herbert L. Webber	Dr. Herbert L. Webber				
Huxley College of Environmen	tal Stud	dies			
Western Washington State Uni					
Bellingham, WA 98225	•				
		· · · · · · · · · · · · · · · · · · ·			
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		BER(S) USED E	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound Project				770826	
R.U. 106		ł			
		<u> </u>		<u> </u>	
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM / NATIONALIT	ND OPERATOR Y(IES)	L	TES
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				00,20,	
8. ARE DATA PROPRIETARY?		SE DARKEN AL			
XXNO YES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.
MANO (1) 123	Ì				
IF YES, WHEN CAN THEY BE RELEASED			GENERAL AR	REA	
FOR GENERAL USE? YEARMONTH 9. ARE DATA DECLARED NATIONAL					
PROGRAM (DNP)?	100" 120"	140° 188° 180° 168° 144	° 128° 106° 60° 60°	40" 20" 0" 20"	48* 66* 60* 100*
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-	270	70	C - C - C	\$ 253250 Jan	204 (1) 175 279
TIONAL EXCHANGE?)	242	237 232		(C 20 25/ 2)	14 Zes
NO XX YES PART (SPECIFY BELOW)	206		101	A SUP	212 207
LINO KATES LIPARI (SPECIFI BELOW)	170	165 160	17 155 1 2510	Jeg 180	2762 0 171
	" W 14	124 124	119 114	un tu	7 140 135 46°
	20 2	093 088	100 () m	(037)006 (037)072	104 20-
10. PERSON TO WHOM INQUIRIES CONCERNING		021 016	011 00	901136	1027 1 2 1027 0.
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER	M	320 315 V 356 3 331	310 325 346 541		531 326 567 362 20°
THAN IN ITEM-1)		302 547	382 377		ן ושייען וין דאשין
Michael L. Crane	40	1 CO 1 CO 1 CO 1 CO 1 CO 1 CO 1 CO 1 CO	416		67 600
NOAA/Edis	505	300 495	700	┞╸╎┈╏╸┢┈┢╸╽╸╏═┿╸	511 506
AEIDC 707 A St.	60.	╿╏╏ ┩┞┞╂╂┪	 	╿╸ ┤ ╏ ╏╏	. I
Anchorage, AK 99501		536 531	526	516551	
Anehorage, AK 99501 Ph: (907) 279-4523	100" 120"	<u>1 914 7 190° 160° 146</u>	- 120° 100° 80° 60°	40° 20° 0° 20°	10° 50° 50° 100°
NOAA FORM 24-12	<u> </u>		····		

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

	YPES CONTAINED IN THE TF F IDENTIFYING EACH RECO	RANSMITTAL OF YOUR FILE RD TYPE						
Record Ty	' 4 (Species Identi	Analysis Record) ple Description)						
2. GIVE BRIEF DE	GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION							
	ence numbers for prop	in length. Record types are sorted by station per order. Each record type is a new station						
ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE								
NAME		chael L. Crane (907) 279-4523 C. 707 A Street, Anchorage, AK 99501						
COUR ETE I	THIS SECTION IF DATA ARE	ON MACHETIC TARE						
5. RECORDING MO		P. LENGTH OF INTER- RY RECORD GAP (IF KNOWN) XX 3/4 INCH						
		10. END OF FILE MARK						
6. NUMBER OF TR (CHANNELS		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS						
		OF DATA TYPE, VOLUME NUMBER) 106 100 770826						
7. PARITY	YY ODD EVEN	77/08/26 WEBBER						
8. DENSITY	200 BPI XX 1600	9TRK,1600BPI, ODD, EBCDIC						
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES						
	800 BPI	4,000 characters/block						
	·							
	<u> </u>							

NO A A FORM 24-13 USCOMM-DC 44289-P7

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

1. NAME AND ADDRESS OF INSTITUTION, LABOR	ATORY, O	ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
Dr. Herbert L. Webber Huxley College of Environmental Studies					
Western Washington State Uni Bellingham, WA 98225	versity				i
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		BER(S) USED E	Y ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound Project R.U. 106				770630	
			· 		
4. PLATFORM NAME(S) 5. PLATFORM TYPI (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	ND OPERATOR Y(IES)		TES
		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
				06/30/77	06/30/77
8. ARE DATA PROPRIETARY?		E DARKEN ALI			
XX NO YES	J GONT				
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH			GENERAL AR	REA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100* 125* 1	148° 168° 180° 160° 140	. 138. 180. 60. 60.	40" 25" 6" 25"	40" 60" 60" 100"
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)	212	237 245	20 70 2	\$ 23022 21722	254 (1) (279 243 243
NO XX YES PART (SPECIFY BELOW)	206	201 - 55	191		212 207
·	20' 000	129 124 099 088 057 052	119 114 100 000 1000 000	037 072	7 140 135 104 999 20°
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	361 307 307	021 016 320 315 V 336 351 387 387	910 905 346 340 382 377	 	672 027 531 326 567 362 403 398
Michael L. Crane	467	100 D 02	418 . 97	440,00	67 67 40°
NOAA/Edis	505	900 495	490	 	511 506 mi*
AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	541	536 531 572 567	576 552 562 553 5 120 100 100 100 100	516551 532567	547 542 583 578
NOAA FORM 24-13					

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

		S CONTAINED IN THE TRANSMITT ENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
Record	Type	1 (Station Header Record 2 (Sediment Size Analysi 3 (Biological Sample Des 4 (Species Identification 7 (Text Record)	s Record)
GIVE BRIEF	DESCRI	PTION OF FILE ORGANIZATION	
	quence	numbers for proper orde	gth. Record types are sorted by station er. Each record type is a new station
			· · · · · · · · · · · · · · · · · · ·
		PRESSED IN PL-1 FORTRAN	ALGOL COBOL LANGUAGE
NA	ME AND	PUTER SPECIALIST: PHONE NUMBER <u>Michael I</u> NOAA/FDIS AFIDO 707 A	. Crane (907) 279-4523 A Street, Anchorage, AK 99501
			•
RECORDING		BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
-			10. END OF FILE MARK
NUMBER OF (CHANN		SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
	•	XX NINE	ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)
PARITY	 ,-	TY ODD	77/06/30 WERRER
DENSITY		200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC
		556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
		800 BPI .	4,000 characters/block

USCOMM-DC 44289-P72

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225						
2. EXPEDITION, PROJECT, OR PRODUCT DATA WERE COLLECTED	GRAM DURING WHICH		MBER(S) USED E	BY ORIGINATOR	R TO IDENTIFY	
NOAA, MESA Puget Sound Project R.U. 106			770810			
	ATFORM TYPE(S) G., SHIP, BUOY, ETC.		AND OPERATOR (Y(IES)	1	TES	
		PLATFORM	OPERATOR	FROM: MO,DAY,YF	TO: MO/DAY/YR	
				08/10/77	08/10/77	
8. ARE DATA PROPRIETARY? XX NO YES IF YES, WHEN CAN THEY BE	Col	EASE DARKEN AL NTAINED IN YOUR		ERE COLLECT		
FOR GENERAL USET YEAR_	MON TH	· · · · · · · · · · · · · · · · · · ·	OEREKAL AR			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDE DATA CENTERS HOLDINGS FOR I TIONAL EXCHANGE?) NO XX YES PART (SPEC	DIN WORLD	9" 140" 183" 180" 180" 140 223 232 41 207 223 5 165 160 160	129° 100° C2° 80° C2° 80° C2° C2° C2° C2° C2° C2° C2° C2° C2° C2	100 DE	40° 82° C2° 199° 224 (1) (125 27° 125 27 207 212 207 171 160 199 21-	
O. PERSON TO WHOM INQUIRIES CONDATA SHOULD BE ADDRESSED WE PHONE NUMBER (AND ADDRESS IN THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	TH TELE-	22 016 320 315 321 327 322 327 323 327 324 325 325 327 326 325 327 327 328 327 329 448 180° 180° 180° 140°	011 38: 310 36: 346 341 348 36: 348	300 335 300 335 300 335 301 3371 / 372 sarr 372 sarr 400 515 516551 40° 20° 0° 20°	100 100	

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

I. LIST RECORD TYPES CONTAINED IN THE TR					
Record Type 1 (Station Header " " 2 (Sediment Size " " 3 (Biological Sam " " 4 (Species Identi " " 7 (Text Record)	Analysis Record) uple Description)				
<u> </u>					
2. GIVE BRIEF DESCRIPTION OF FILE ORGANI	ZATION				
Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.					
RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501					
COMPLETE THIS SECTION IF DATA ARE					
5. RECORDING MODE BCD BIN A ASCII XX EBCE	9. LENGTH OF INTER- RY RECORD GAP (IF KNOWN) XX 3/4 INCH				
6. NUMBER OF TRACKS (CHANNELS) SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS				
7. PARITY	106 100 770810				
EVEN 8. DENSITY 200 BPI XX 1600	77/08/10 WEBBER 9TRK,1600BPI, ODD, EBCDIC				
556 8PI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS				

A FORM 24-13

NOAA FORM 24-13 (4-72) 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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Dr. Herbert L. Webber

Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING WH DATA WERE COLLECTED				BER(S) USED E	BY ORIGINATOR TO IDENTI	FY	
NOAA, MESA Puget R.U. 106	Sound Project				770702		
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT		1		
			PLATFORM	OPERATOR	FROM: MO/DAY/YR TO: MO/DAY	/YR	
			_		07/02/77 07/02/7	7	
8. ARE DATA PROPRIETARY	?				UARES IN WHICH ANY DATA	A	
XX NO YES			•				
IF YES, WHEN CAN TH	_			GENERAL AR	REA		
9. ARE DATA DECLARED NA PROGRAM (DNP)?	TIONAL	100° 120°	148" 180" 180" 180" 146	* 126* 100* £3* 66*	40- 20- 0- 20- 40- 80- 80- 100	,	
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDING: TIONAL EXCHANGE?)		778 4 5	27 292	27 27 2	7 5328 284 (1 1 279 20 22 22 (1 1 22)	60-	
NO XX YES PAR	T (SPECIFY BELOW)	40° 134 TV	2017 - 596 165 1660 129 124	191 125 155 155		40"	
		25"	093 1088 057 052	007 000	037 072 655 003	20-	
10. PERSON TO WHOM INQUIRED DATA SHOULD BE ADDRESS PHONE NUMBER (AND ADDITION OF THAN IN ITEM-I)	SSED WITH TELE-	20.	221 016 315 315 351 351 351 357	911 7 500 310 950 346 341 382 377	300 333 531 326 338 371 367 362 372 407 403 398	20 -	
Michael L. Crane		46"	1 464 S 50	418 / pr	 	40-	
NOAA/Edis AEIDC 707 A St.		505	500 475	526	5 , 480515 511 506 1 516551 547	6 0.	
Anchorage, AK 9950 Ph: (907) 279-4523)1	577 106* 120*	572 569 148° 160° 160° 160° 146)- 150- 100- 80- 60-	40° 28° 9° 29° 40° 50° 80° 100	r	
NOAA FORM 24-13					USCOMM-DC 44289-	 -P72	

Record	Туре	l (Station Head	er Record)
71			e Analysis Record)
11	11	3 (Biological S	Sample Description)
**		4 (Species Iden	ntification Record)
11	**	7 (Text Record)	
GIVE BRIEF (DESCRIF	TION OF FILE ORGA	ANIZATION
Each re	ecord	is 80 character	es in length. Record types are sorted by station
			coper order. Each record type is a new station
header	recor	d.	•
ATTRIBUTES	AS EXP	RESSED IN PL	-1 ALGOL COBOL
ATTRIBUTES	AS EXP	··	
ATTRIBUTES	AS EXP	··	
ATTRIBUTES	AS EXP	··	
		··	DRTRANLANGUAGE
RESPONSIBLE NAM	E COMPI	FO JTER SPECIALIST: PHONE NUMBER	Michael L. Crane (907) 279-4523
RESPONSIBLE NAM	E COMPI	FO JTER SPECIALIST: PHONE NUMBER	DRTRANLANGUAGE
RESPONSIBLE NAM ADI	E COMPI ME AND DRESS _	FO JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	FO JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	TFO JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE [9. LENGTH OF INTER-
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	TFO JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	TFO JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
RESPONSIBLE NAM Add Complet	E COMPI ME AND DRESS _ E THIS !	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE NARY 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR BCD BIN ASCII XX E8	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
RESPONSIBLE NAM ADD COMPLET	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE NARY 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR BCD BIN ASCII XX E8	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION)
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE NARY 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION)
COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR BCD BIN ASCII XX EB SEVEN	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)
RESPONSIBLE NAM ADD COMPLET RECORDING	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AET SECTION IF DATA AR BCD SIN ASCII XX EB SEVEN XX NINE	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770702
COMPLETI RECORDING I	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB SEVEN XX NINE SEVEN	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770702 77/07/02 WEBBER 9TRK, 1600BPI, ODD, EBCDIC
COMPLETI RECORDING I	E COMPI ME AND DRESS _ E THIS! MODE	JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB SEVEN XX NINE 200 BPI XX 160	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE NARY 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770702 77/07/02 WEBBER 9TRK, 1600BPI, ODD, EBCDIC
COMPLETI RECORDING I	E COMPI ME AND DRESS _ E THIS! MODE	TER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB SEVEN XX NINE SEVEN	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770702 77/07/02 WEHBER 9TRK, 1600BPI, ODD, EBCDIC
COMPLETING I	E COMPI ME AND DRESS _ E THIS! MODE	JTER SPECIALIST: PHONE NUMBER NOAA/EDIS, AEI SECTION IF DATA AR BCD BIN ASCII XX EB SEVEN XX NINE 200 BPI XX 160	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 RE ON MAGNETIC TAPE NARY 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 770702 77/07/02 WEBBER 9TRK, 1600BPI, ODD, EBCDIC

NOAA FORM 24-13 (4-72)

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies						
Western Washington State University						
Bellingham, WA 98225						
perrangham, w						· · · · · · · · · · · · · · · · · · ·
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED		WHICH		MBER(S) USED E	Y ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget	Sound Project				771118	
R.U. 106				•		
4. PLATFORM NAME(S)	5. PLATFORM TYPI	E(S)	6. PLATFORM	AND OPERATOR	7. DA	TES
,	(E.G., SHIP, BUO		NATIONALIT		1	
			PLATFORM	OPERATOR	FROM: MODAY/YR	TO: MO/DAY/YR
]			1	1		
					11/18/77	11/18/77
8. ARE DATA PROPRIETARY	7	11. PLEAS	SE DARKEN AL	L MARSDEN SO	UARES IN WHIC	H ANY DATA
XXNO YES					ERE COLLECT	
IF YES, WHEN CAN THE FOR GENERAL USE?		!		GENERAL AR	REA	
9. ARE DATA DECLARED NA						
PROGRAM (DNP)?	ICLUDED IN WORLD	- 12-14-14-14-14-14-14-14-14-14-14-14-14-14-	140- 160- 180- 140	1, 130, 100, 53, 60,		THE POST
DATA CENTERS HOLDING TIONAL EXCHANGE?)		22	27 272		1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	20
NO XX YES PAR		┃ 88° ┡┼┼┼┼)		
٠٠٠٠ ١١٠٠٠ ١١٠٠٠	T (SPECIFY BELOW)	200	4	191	Sp. A. P	212 207
	T (SPECIFY BELOW)	40* 206	165 166	155 35 13	143 180	212 207
	T (SPECIFY BELOW)	"] 	201		148 Lary 100 fixe	212 207 276 2 9 171 140 135
		206 170 170 170 170 170 170 170 170 170 170	129 124 124 1093 1088 1057 1052	1155 SAX	143 Lac 100 Exa (073 Loc (057 D72	212 207 276 9 1171 1160 135 106 999 267
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE	IES CONCERNING SSED WITH TELE-	"] 	129 124 093 088 057 052 021 016 320 315	156 30 314 314 314 315 310 335 335 335 335 335 335 335 335 335 33	148 Len 1987 202 1037 202 1003 334	212 207 276
10. PERSON TO WHOM INQUIR	IES CONCERNING SSED WITH TELE-	"] 	129 124 088 085 085 021 016	1155 SAX	148 Len 199 520 (1273 loc 1337 172 120 1334 130 1335 133 1371	212 207 216 2 9 111 44° 140 3 135 104 99 24° 256 060 24° 531 326 667 362 20°
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1)	IES CONCERNING SSED WITH TELE-	20 DA 7 DA 7 DA 7 DA 7 DA 7 DA 7 DA 7 DA	129 124 108 108 108 108 108 108 108 108 108 108	155 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	148 Len 199 7570 (477) 000 1 (577) 72 1 (577) 72 1 (577) 72 1 (578) 734 1 (578	212 207 214 9 111 40° 116 9 135 106 99 24° 86 06 06 07 86 07 36 20° 403 396 404 60°
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1) Michael L. Crane	IES CONCERNING SSED WITH TELE-	20 DA DA DA DA DA DA DA DA DA DA DA DA DA	129 124 124 125 125 125 125 125 125 125 125 125 125	156 2 12 119 114 110 2 12 111 2 12 112 2 1	148 Leo 1987 DE 679 DE 1037 072 1031 334 1300 335 336 371 372 487 488 40 444 679	212 207 216 2 9 111 46* 1160 1335 1064 999 24* 256 02 20* 257 0* 358 20* 403 998 409 404 409 404 409 4
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1) Michael L. Crane NOAA/Edis	IES CONCERNING SSED WITH TELE-	20 DA DA DA DA DA DA DA DA DA DA DA DA DA	129 124 108 108 108 108 108 108 108 108 108 108	155 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	148 Leo 1987 DE 679 DE 1037 072 1031 334 1300 335 336 371 372 487 488 40 444 679	212 207 214 9 111 100 9 135 100 9 211 86 0 00 211 86 0 00 211 86 0 00 27 90 207 90 300 90 300 90 300 90 300 90 404 405 406 407 408 408
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St.	IES CONCERNING SSED WITH TELE- DRESS IF OTHER	20° 062 7 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	129 124 124 125 125 125 125 125 125 125 125 125 125	156 2 12 119 114 110 2 12 111 2 12 112 2 1	148 Leo 1987 DE 679 DE 1037 072 1031 334 1300 335 336 371 372 487 488 40 444 679	212 207 216 2 9 1171 44° 104 3 135 104 9 21° 24° 24° 340 340 340 370 382 407 407 408 409 409 409 409 409 409 409
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1) Michael L. Crane NOAA/Edis	IES CONCERNING SSED WITH TELE- DRESS IF OTHER	20° 062 7 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	138 124 138 1324 1339 1339 1339 1339 1339 1339 1339 133	155 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	148 Len 199 730 (973 106 (973 106 (973 107 (90) 334 (300) 335 (300) 337 (307 407 (400) 403 (444 474 (400) 430 (400) 430	212 207 216 2 9 111 46* 104 9 135 105 009 24* 207 0* 331 326 407 0* 407 0* 407 400 311 556
10. PERSON TO WHOM INQUIR DATA SHOULD BE ADDRE PHONE NUMBER (AND ADI THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St.	IES CONCERNING SSED WITH TELE- DRESS IF OTHER	20° 062 7 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	138 124 138 1324 1339 1339 1339 1339 1339 1339 1339 133	155 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	148 Len 199 530 (97 510 (197 507	212 207 216 2 9 1171 44° 104 3 135 104 9 21° 24° 24° 340 340 340 370 382 407 407 408 409 409 409 409 409 409 409

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
Record Type """ """ """	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record) cription)
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
Each record and sequence header recor	numbers for proper order	th. Record types are sorted by station c. Each record type is a new station
	PUTER SPECIALIST: O PHONE NUMBER	Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE THIS 5. RECORDING MODE	SECTION IF DATA ARE ON MAGNE BCD BINARY ASCII XX EBCDIC	TIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
5. NUMBER OF TRACK (CHANNELS)	S SEVEN	10. END OF FILE MARK
	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY 3. DENSITY	ODD EVEN .	106 100 771118 77/11/18 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI 556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-13	<u> </u>	U5COMM-DC 44289-F

NOAA FORM 24-13 (4-72)

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

PRATORY, O	R ACTIVITY WIT	H WHICH SUBM	IITTED DATA A	RE ASSOCIATED
NG WHICH			BY ORIGINATOR	R TO IDENTIFY
Ē.			771017	
	NATIONALIT	Y(IES)		TES
	PLATFORM	OPERATOR	FROM: MO/DAY/Y	TO: MO/DAY/YR
			10/17/77	10/17/77
_		GENERAL AF	REA	
100" 120"	140* 160* 180* 160* 148	r 130° 100° 63° 60 °	40" 25" 6" 20"	40° 60° 50° 100°
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20° 065 023 024 025 025 025 025 025 025 025 025 025 025	057 002 221 016 320 315 320 335 320 337 320 337 320 337 321 327 322 327 336 531 337 338 531 337 338 531 337 338 531 338 531 337 338 531 337 338 531 338 531 338 531 337 338 531 338 538 531 338 5	342 377 415 254	2 (037072 00)136 300333 333571 372407 400443	Sec Oct. 20°
	ental Stuniversity ING WHICH t (PE(S) UOY, ETC.) 11. PLEA CONT 11. PLEA CONT 12. PLEA 13. PLEA 14. PLEA 15. PLEA	ental Studies niversity ING WHICH 3. CRUISE NUM DATA IN TH t (PE(S) UOY, ETC.) 11. PLEASE DARKEN AL CONTAINED IN YOUR 11. PLEASE DARKEN AL CONTAINED IN YOUR 12. 12. 12. 12. 12. 12. 12. 12. 12. 12.	ental Studies niversity OR WHICH 3. CRUISE NUMBER(S) USED DATA IN THIS SHIPMENT TO DATA IN THIS SHIPMENT COPE(S) PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR OPERATOR 11. PLEASE DARKEN ALL MARSDEN SO CONTAINED IN YOUR SUBMISSION W GENERAL AI 12. SEPTIMENT 1887 1887 1887 1887 1887 1887 1887 188	ING WHICH 3. CRUISE NUMBER(S) USED BY ORIGINATOR DATA IN THIS SHIPMENT 771017 (PE(S) LOY, ETC.) 6. PLATFORM AND OPERATOR 7. DAING NATIONALITY(IES) PLATFORM OPERATOR FROM: MO PAY/YI 10/17/77 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH CONTAINED IN YOUR SUBMISSION WERE COLLECT GENERAL AREA DESCRIPTION OF STATE OF S

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

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	Ļ OF YOUR FILE
Record Type """ """ """	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
. GIVE BRIEF DESCR	IPTION OF FILE ORGANIZATION	·
	e numbers for proper order	th. Record types are sorted by station r. Each record type is a new station
	•	·
	FORTRAN PUTER SPECIALIST: D PHONE NUMBER <u>Michael L</u>	ALGOL COBOL LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
	SECTION IF DATA ARE ON MAGNE	,
. RECORDING MODE	BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NUMBER OF TRACK	(S	OCTAL 17
(CHANNELS)	SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER)
PARITY	XX ODD EVEN	106 100 771017 77/10/17 WEBBER
DENSITY	200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC
	□ 800 BPI	4,000 characters/block 13. LENGTH OF BYTES IN BITS

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH 3.		BER(S) USED E	Y ORIGINATOR	TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106			i 	771108			
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		PLATFORM A	ND OPERATOR Y(IES)	7. DA	TES		
		PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO DAY YR		
			•	11/08/77	11/08/77		
8. ARE DATA PROPRIETARY?				UARES IN WHIC ERE COLLECT			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH	 -		GENERAL AR	EA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	20. 000	227 228 227 222 201 150 150 128 124 103 108 107 102	129° 100° 63° 69° 227 227 227 227 227 227 227 227 227 22	107 (M2) (M2) (M2) (M2) (M2) (M2) (M2) (M2)	104 000		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	20 341 20 469	021 016 220 015 326 0 351 327 223 223 444 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	911 95 310 95 346 341 342 341 418 95 454 48 454 48 455 48 450 526 52 526 52 527	300 339 339 371 377 477 400 440 444 478 , 480 515 514 551 40° 20° 0° 20°	C2		

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

	S CONTAINED IN THE TRANSMITT ENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
Record Type """ """ """	1 (Station Header Record 2 (Sediment Size Analysi 3 (Biological Sample Des 4 (Species Identificatio 7 (Text Record)	s Record) cription)
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
	numbers for proper orde	th. Record types are sorted by station er. Each record type is a new station
	FORTRAN PUTER SPECIALIST: D PHONE NUMBER <u>Michael L</u>	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE THIS	SECTION IF DATA ARE ON MAGNE	ETIC TARE
5. 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
6. NUMBER OF TRACK (CHANNELS)	S	
(CHANNELS)	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY 8. DENSITY	ODD EVEN	77/11/08 WEBBER 9TRK,1600BPI, ODD, EBCDIC
32	200 BPI XX 1600 BPI	received an account one of the decide of the decided d
		12 PUVSICAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH TO THE TOTAL PLACE LENGTH
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block
	800 BPI .	13. LENGTH OF BYTES IN BITS
		- :
NOAA FORM 24-18		USCOMM-DC 44289-P

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) 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

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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	S WHICH		IBER(S) USED F IS SHIPMENT	BY ORIGINATOR	R TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106				771018			
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	Y(IES)		TES		
		PLATFORM	OPERATOR	FROM: MO/DAY/YF	TO: MO/DAY/YR		
				10/18/77	10/18/77		
8. ARE DATA PROPRIETARY?		E DARKEN ALI					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR			GENERAL AR	REA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD	188° 128° 1	e0" 160" 180" 160" 160	120° 100° 52° 56°	40° 20° 6° 20°	40" 80" 80" 100" 274 (1 1) (255 279)		
DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?)	30	27	27 27 22	3 2025	70 20		
NO XX YES PART (SPECIFY BELOW)	206	201/ 298	191 126		212 207 2102 9 171		
·	10. 00.	7 129 124 124 1088 1057 1052	119 114 105 07		7 160 135 104 099 21:"		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	20 30	221 016 220 315 V 336 4 351 392 347	011 080 310 550 346 541	300535 336371 372407	607 0° 551 326 847 342 20°		
Michael L. Crane NOAA/Edis	40" 468	U464 8 659	412 F	444,079	439 43° 457 40°		
AEIDC 707 A St. Anchorage, AK 99501	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°	500 495 534 531 572 567	526 552 542 553	516551 518551	511 506 co 547 542 533 578		
Ph: (907) 279-4523	100" 120" 1	46" 180" 180" 180" 140	- 120° 100° 50° 50°	40° 20° 8° 20°	40" 50" 50" 100" DMM-DC 44269-P72		

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
Record Type """ """ """	1 (Station Header Record 2 (Sediment Size Analysi 3 (Biological Sample Des 4 (Species Identificatio 7 (Text Record)	s Record) cription)
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
	numbers for proper orde	th. Record types are sorted by station r. Each record type is a new station
	PUTER SPECIALIST: PHONE NUMBER	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE THE	SECTION IF DATA ARE ON MAGNE	TIC TABE
5. 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
6. NUMBER OF TRACK (CHANNELS)	S SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
		OF DATA TIPE, VOLUME NUMBER)
7. PARITY 8. DENSITY	200 BPI XX 1600 BPI	106 100 771018 77/10/18 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
1	800 BPI .	4,000 characters/block
		is zerom or bites in bits
NOAA FORM 24-18		USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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1. NAME AND ADDRESS OF INSTITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA A	RE ASSOCIATED		
Dr. Herbert L. Webber							
Huxley College of Environmental Studies							
Western Washington State Uni							
Bellingham, WA 98225	-		•				
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E IIS SHIPMENT	BY ORIGINATOR	TO IDENTIFY		
NOAA, MESA Puget Sound Project				771103			
R.U. 106				// 11			
4. PLATFORM NAME(S) 5. PLATFORM TYP	E(S)	6. PLATFORM	ANDOPERATOR	7. DA	TES		
(E.G., SHIP, BUO	Y, ETC.)	NATIONALIT					
1		PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YR		
			ŀ]			
				11/03/77	11/03/77		
			ł	11/03///			
8. ARE DATA PROPRIETARY?		SE DARKEN AL					
XXNO TYES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.		
MANO [123							
IF YES, WHEN CAN THEY BE RELEASED	GENERAL AREA						
FOR GENERAL USET YEARMONTH	· <u> </u>						
PROGRAM (DNP)?	188° 128° 140° 160° 160° 160° 160° 120° 120° 120° 120° 120° 100° 120° 12						
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-	77 - C - PAGE 260 C 261						
TIONAL EXCHANGE?)	242	27 22		20 20 25	20		
NO XX YES PART (SPECIFY BELOW)	206		191 124	13.21	212 207 50°		
Mo MAILES CITARY (SPECIAL BERGA)	170	165 160	17 155 1 23 18		276 2 (3) 171		
	4. DA 1.A	129 124	110 114	Ipp DEC			
] 25° [20] - 2	093 988 057 052	047 S 047		104 Dee 21r		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-		021 016	911 984 310 305	300535	931 326 0°		
PHONE NUMBER (AND ADDRESS IF OTHER	a. M.	V 356 4 351	344 341	336371	367 362		
THAN IN ITEM-1)		922 1917 1628 1623	382 377	372 057	(39 434		
Michael L. Crane	40" 469	1944 de 1 601	G4 23 44	- 	67 00 00		
NOAA/Edis	505	500 495	000 9 00	450515	511 506		
AEIDC 707 A St.	80° MI	536 531	The state of	516551	26.		
Anehorage, AK 99501	[1 52 1 45 55	552567			
Ph: (907) 279-4523	100° 120°	140° 180° 180° 160° 140	P 120° 100° 80° 60°	40° 20° 0° 20°	40" 50" 80" 100"		
NOAA FORM 24-13	<u> </u>	····		11800	MM-DC 44289-P72		

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

	ES CONTAINED IN THE TRANSMITT. DENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
Record Type	1 (Station Header Record 2 (Sediment Size Analysi 3 (Biological Sample Des 4 (Species Identificatio 7 (Text Record)	s Record) cription)
. GIVE BRIEF DESCR	RIPTION OF FILE ORGANIZATION	
	e numbers for proper order	th. Record types are sorted by station er. Each record type is a new station
NAME AN	FORTRAN PUTER SPECIALIST: D PHONE NUMBER <u>Michael I</u>	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE THE	S SECTION IF DATA ARE ON MAGNI	ETIC TAPE
5. 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
S. NUMBER OF TRAC		
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY	XX ODD EVEN	77/11/03 WEBBER
8. DENSITY	200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC
	☐ 556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	800 BPI .	4,000 characters/block
	<u> </u>	

NOAA FORM 24-13

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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

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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		IBER(S) USED E IS SHIPMENT	Y ORIGINATOR	TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106		771015					
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES		
·		PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR		
				10/15/77	10/15/77		
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH		GENERAL AREA					
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?)	200 200 200 200 200 200 200 200 200 200	140° 160° 180° 160° 140° 140° 160° 140° 160° 160° 160° 160° 160° 160° 160° 16	129° 160° C2° 80° 243	(07) 108 (037) 072 (01) 94 (030) 339 (300) 339 (303) 371 (372) 407 (48) 443	274 (1) 279 279		

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

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL GIVE METHOD OF IDENTIFYING EACH RECORD TYPE	L OF YOUR FILE						
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)							
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION							
Each record is 80 characters in lengt and sequence numbers for proper order header record.	th. Record types are sorted by station Each record type is a new station						
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. ADDRESS NOAA/EDIS, AEIDC, 707 A							
COMPLETE THIS SECTION IF DATA ARE ON MAGNE	TIC TAPE						
5. 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						
6. NUMBER OF TRACKS SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)						
7. PARITY XX ODD	106 100 771015						
8. DENSITY 200 BPI XX 1600 BPI	77/10/15 WEBBER 9TRK,1600BPI, ODD, EBCDIC						
556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS						

NOAA FORM 24-13

USCOMM-DC 44289-P7:

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

	ATORT, O	R ACTIVITY WIT	H MUICH SOBM					
Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225								
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT								
NOAA, MESA Puget Sound Project R.U. 106		780213						
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A	ND OPERATOR	7. DA	TES			
		PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO DAY YR			
			·	02/13/78	02/13/78			
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR						
IF YES, WHEN CAN THEY BE RELEASED	ļ	GENERAL AREA						
FOR GENERAL USET YEARMONTH								
9. ARE DATA DECLARED NATIONAL	100 100		CENERAL AN	40° 20° 8° 20° (40° 60° 60° 100°			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW) 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane	278 - 25 - 26 - 278 - 26 - 278	180° 180° 180° 180° 140° 180° 140° 180° 140° 140° 140° 140° 140° 140° 140° 14	1287 1687 80 80 80 80 122 122 122 122 122 122 122 122 122 12	40° 20° 0° 20° 20° 20° 217'253 217'252 217'252 217'252 217'252 217'252	224			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW) 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	245 206 170 34 40 134 170 180 180 180 180 180 180 180 180 180 18	129 124 193 198 1957 1952 1971 1952 1921 1916 1920 1915 1934 1931 1942 1947 1952 1947	139 106 40 90 127 127 127 127 127 127 127 127 127 127	40° 20° 0° 20° 20° 20° 20° 20° 20° 20° 20	212 207 276 9 171 140 135 140 207 140 207 140 135 140 207 140 135 140 207 140 140 140 140 140 140 140 140 140 140			

Record	Type	2 (Sedi 3 (Bio) 4 (Spec	ment Size Logical Sa	er Record) e Analysis Record) ample Description) tification Record)
			·	
IVE BRIEF	DESCR	PTION OF	FILE ORGAN	NIZATION
Each ro and sec header	quenc	e numbei	characters s for pro	s in length. Record types are sorted by station oper order. Each record type is a new station
				•
TTRIBUTES	9 49 EX	PKE35EU	IN PL-1	-1 ALGOL COBOL
NA	ME ANI	PHONE N	ECIALIST:	Michael L. Crane (907) 279-4523
NA	ME ANI	PHONE N	ECIALIST:	RTRAN LANGUAGE
AD COMPLET	ME ANI	NOAA/I	ECIALIST: NUMBER <u>M</u>	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE
NA AD	ME ANI	NOAA/I	ECIALIST: IUMBERM DIS, AEID IF DATA ARE	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NA AD COMPLET	ME ANI	NOAA/I	ECIALIST: IUMBERM DIS, AEID IF DATA ARE	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
COMPLET	ME ANI	PHONE M NOAA/E SECTION BCC ASC	ECIALIST: HUMBER MEDIS, AEID IF DATA ARE BINGS HILL XX EBC	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
NA AD COMPLET	ME ANI	PHONE M NOAA/F SECTION BCC ASC	ECIALIST: NUMBER M EDIS, AEID IF DATA ARE D BIN HI XX EBC	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION
COMPLET	ME ANI	PHONE M NOAA/E SECTION BCC ASC	ECIALIST: NUMBER M EDIS, AEID IF DATA ARE D BIN HI XX EBC	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK OCTAL 17
COMPLET	ME ANI	PHONE M NOAA/F SECTION BCC ASC SEV XXNIN	ECIALIST: IUMBER M EDIS, AEID IF DATA ARE D BIN EN EN	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION
COMPLET RECORDING	ME ANI	PHONE M NOAA/F SECTION BCC ASC	ECIALIST: HUMBER MEDIS, AEID IF DATA ARE BIN XX EBC	Michael L. Crane (907) 279-4523 DC, 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 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 SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780213 WERBER
COMPLET RECORDING	ME ANI	PHONE M NOAA/E SECTION BCC ASC SEV XX NIN	ECIALIST: HUMBER MEDIS, AEID IF DATA ARE BIN XX EBC	Michael L. Crane (907) 279-4523 DC. 707 A Street. Anchorage. AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780213 78/02/13 WERBER 9TRK, 1600BFI, ODD, EBCDIC
COMPLET RECORDING	ME ANI	PHONE M NOAA/E SECTION BCC ASC SEV XX NIN	ECIALIST: IUMBER M DIS, AEID IF DATA ARE D SIN XX EBC	Michael L. Crane (907) 279-4523 DC. 707 A Street. Anchorage. AK 99501 E ON MAGNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780213 78/02/13 WERBER 9TRK, 1600BFI, ODD, EBCDIC
COMPLET RECORDING	ME ANI	SECTION BCT ASC XX NIN XX O DE Z00	ECIALIST: SUMBER M EDIS, AEID IF DATA ARE SILL XX EBC EN BPI XX 1600 BPI	Michael L. Crane (907) 279-4523 DC. 707 A Street, Anchorage, AK 99501 E ON MAGNETIC TAPE 1ARY P. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH CDIC 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780213 78/02/13 WERBER 9TRK, 1600BPI, ODD, EBCDIC

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		BER(S) USED E	ORIGINATOR	R TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106		780107					
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A	ND OPERATOR	7. DA	TES		
		PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YR		
				01/07/78	01/07/78		
8. ARE DATA PROPRIETARY?	11. PLEAS CONT	SE DARKEN ALI AINED IN YOUR	L MARSDEN SQ SUBMISSION W	UARES IN WHICE	H ANY DATA ED.		
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH		GENERAL AREA					
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	200° 720° 770° 770° 770° 770° 770° 770°	180" 180" 186 146 146 146 146 146 146 146 146 146 14	227 227 222 227 227 222 227 227 222 227 227	(073108 037072	104 mm 211"		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523	8° 535 77 8 901 901 900 901 900 901 900 900 900 900	021 016 320 333 335 360 4331 367 469 500 467 500 467 500 467 468 188 188 188 188 188 188	011 305 310 355 346 341 382 377 413 455 456 469 469 526 527 527 100° 80° 80°	300 333 336 371 4 372 487 400 445 444 479 460 515 516351 516351 40° 20° 0° 20°	1027 9 1027 9 1027		

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

	PES CONTAINED IN THE TRANSMITTA IDENTIFYING EACH RECORD TYPE	AL OF YOUR FILE
Record Typ	e 1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Dese 4 (Species Identification 7 (Text Record)	s Record) cription)
. GIVE BRIEF DESC	RIPTION OF FILE ORGANIZATION	·
Each recor and sequen header rec	ice numbers for proper order	th. Record types are sorted by station r. Each record type is a new station
·	•	
ATTRIBUTES AS E	EXPRESSED IN PL-1 FORTRAN	ALGOL COBOL LANGUAGE
NAME A	MPUTER SPECIALIST: IND PHONE NUMBER <u>Michael L</u> SS <u>NOAA/EDIS, AEIDC, 707 A</u>	. Crane (907) 279-4523 Street, Anchorage, AK 99501
COMBLETE TH	IS SECTION IF DATA ARE ON MAGNE	TIC TARE
5. RECORDING MOD		9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
		10. END OF FILE MARK
NUMBER OF TRA	CKS	
	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
. PARITY	——————————————————————————————————————	106 100 780107
	EVEN .	78/01/07 WEBBER
B. DENSITY	200 BPI XX 1600 BPI	9TRK,1600BPI, ODD, EBCDIC
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
		4,000 characters/block
		13. LENGTH OF BYTES IN BITS
	—	- (

NOAA FORM 24-18

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS BECTION
ROCKVILLE, MARYLAND 20852

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmen Western Washington State Uni		dies			
Bellingham, WA 98225					
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		BER(S) USED I	BY ORIGINATOR	R TO IDENTIFY
NOAA, MESA Puget Sound Project R.U. 106				780206	
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES
	•	PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
				02/06/78	02/06/78
8. ARE DATA PROPRIETARY?		SE DARKEN ALI			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH			GENERAL AR	REA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	100° 120° 271	237 232 237 232 239 232 240 250 150 250 br>250 250 250 250 250 250 250 250 2	120° 150° C2° 80° 22 22 22 191 191 1155 125 125 125 125 125 125 125 125 1	037072	7 140 135 104 599 202
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	8° 53° 77° 120° 120° 120°	221 016 3300 315 350 3315 350 3315 350 3317 360 9 423 464 464 469 300 465 331 557 557 144* 159* 188* 180* 140	011 000 000 000 000 000 000 000 000 000	90) 304 300 535 330 537 1 372 407 400 400	107 107

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

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL GIVE METHOD OF IDENTIFYING EACH RECORD TYPE	L OF YOUR FILE						
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)							
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION							
Each record is 80 characters in lengt and sequence numbers for proper order header record.	h. Record types are sorted by station . Each record type is a new station						
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L.							
ADDRESS NOAA/EDIS, AEIDC, 707 A							
5. RECORDING MODE BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17						
6. NUMBER OF TRACKS SEVEN (CHANNELS) SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)						
7. PARITY YYODD EVEN 8. DENSITY	106 100 780206 78/02/06 WEBBER 9TRK,1600BPI, ODD, EBCDIC						
200 BPI XX 1600 BPI 556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS						

NOAA FORM 24-13 USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	3. CRUISE NUMBER(S) U DATA IN THIS SHIPME	SED BY ORIGINATOR TO IDENTIFY ENT					
NOAA, MESA Puget Sound Project R.U. 106		780108					
4. PLATFORM NAME(S) 5. PLATFORM TYPI (E.G., SHIP, BUO	6. PLATFORM AND OPER TC.) NATIONALITY(IES)	ATOR 7. DATES					
	PLATFORM OPERAT	TOR FROM: MO DAY YR TO: MO DAY YR					
		01/08/78 01/08/78					
8. ARE DATA PROPRIETARY?	PLEASE DARKEN ALL MARSDE CONTAINED IN YOUR SUBMISSI	N SQUARES IN WHICH ANY DATA ON WERE COLLECTED.					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH	GENERA	AL AREA					
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	279 140° 158° 160° 180° 140° 120° 100° 2 279 223 225 227 225 227 225 227 227 227 227 227	22					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523	22 016 011 013 0	100 100					

	CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
11 11 11 11 11 11 11 11 11 11 11 11 11	l (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
2. GIVE BRIEF DESCRII	PTION OF FILE ORGANIZATION	
Each record and sequence header recor	numbers for proper order	th. Record types are sorted by station c. Each record type is a new station
	FORTRAN UTER SPECIALIST: PHONE NUMBER Michael L.	Crane (907) 279-4523 Street, Anchorage, AK 99501
ADDRESS .	NOAN/EDIS, ABIDO, 707 A	Street, Auchorage, Ak 99301
5. RECORDING MODE	SECTION IF DATA ARE ON MAGNE	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
6. NUMBER OF TRACKS (CHANNELS)	S SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY 8. DENSITY	200 BPI XX 1600 BPI	106 100 780108 78/01/08 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	556 8PI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-18		U5COMM-DC 44289-P72

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

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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED							
Dr. Herbert L. Webber							
Huxley College of Environmental Studies							
Western Washington State University							
Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT							
NOAA, MESA Puget Sound Project			•	700104			
R.U. 106		1		780124			
4. PLATFORM NAME(S) 5. PLATFORM TYP	E/6\	C DI AZEORNI	ND OPERATOR	54	TES		
(E.G., SHIP, BUO		NATIONALIT		/. DA	153		
		PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR		
				01/24/78	01/24/78		
			j	01/27/10	01/24/10		
8. ARE DATA PROPRIETARY?	11. PLEAS	SE DARKEN ALI	L MARSDEN SQ	UARES IN WHIC	H ANY DATA		
	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.		
XXNO YES]				1		
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USET YEARMONTH	1	GENERAL AREA					
9. ARE DATA DECLARED NATIONAL	†		··				
PROGRAM (DNP)?	1889 1239 1407 1600 1800 1800 1407 1239 1239 1237 1237 1237 1237 1237 1237 1237 1237						
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-	270 270 270 270 270 270 270 270 270 270						
TIONAL EXCHANGE?)	262		27-36-72	\$2023	243 20		
NO XX YES PART (SPECIFY BELOW)	206		101 102	18 21 62 10	212 207		
	40. 170	165 160	155		276 2 271		
	" TY	129 124 1979 1988	119 114	107/102	71240		
	20' 000	079 068	00 00	037 072	1004 21.°		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-	1 3 7	021 016	911 50x	303335	1331 120 0°		
PHONE NUMBER (AND ADDRESS IF OTHER	a. M	V 354 d 351	346 341	336371	367 362		
THAN IN ITEM-1)		367 362	382 377 419 85	372 407	403 399 20°		
Michael L. Crane	40" 464	104 8 69	64 8 5 04	444,479	657 670 60*		
NOAA/Edis		500 475	490 905	450,515	511 506		
AEIDC 707 A St.	90° S40 S50 S	536 531	526	516(551)	349 340		
Anehorage AK 99501	577	577	1 50 1 45 50	552367	578		
Ph: (907) 279-4523	100" 120" 1	140" 160" 160" 160" 140	r 120° 183° 88° 60°	40° 20° 0° 20°	40" 60" 50" 100"		
NOAA FORM 24-13	L			USCO	MM-DC 44289-P72		

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

Record Type """ """ """	1 (Station Header Recor 2 (Sediment Size Analys 3 (Biological Sample De 4 (Species Identificati 7 (Text Record)	is Record) scription)
		· · · · · · · · · · · · · · · · · · ·
GIVE BRIEF DESCR	IPTION OF FILE ORGANIZATION	
Each record and sequenc header reco	e numbers for proper ord	gth. Record types are sorted by station er. Each record type is a new station
ATTRIBUTES AS EX	(PRESSED IN PL-1 FORTRAN	ALGOL COBOL LANGUAGE
NAME AN	PUTER SPECIALIST: D PHONE NUMBER <u>Michael</u> NOAA/EDIS AEIDC 707	
NAME AN ADDRESS	D PHONE NUMBER <u>Michael</u> NOAA/EDIS, AEIDC, 707	A Street, Anchorage, AK 99501
NAME AN ADDRESS COMPLETE THIS	D PHONE NUMBER Michael	A Street, Anchorage, AK 99501 HETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
NAME AN ADDRESS COMPLETE THIS RECORDING MODE	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC	A Street, Anchorage, AK 99501 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NAME AN ADDRESS COMPLETE THIS RECORDING MODE	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC	A Street, Anchorage, AK 99501 METIC TAPE 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 (INCLUD)
NAME AN ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACE (CHANNELS)	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC SEVEN	A Street, Anchorage, AK 99501 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUD. ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780124 VERBER
NAME AN ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACE (CHANNELS)	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC SEVEN XX NINE	A Street, Anchorage, AK 99501 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDIO ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780124
NAME AN ADDRESS COMPLETE THIS RECORDING MODE NUMBER OF TRACK (CHANNELS)	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC SEVEN XX NINE EVEN	A Street, Anchorage, AK 99501 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDIC ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780124 78/01/24 WEBBER 9TRK, 1600BPI, ODD, ERCDIC
NAME AN ADDRESS COMPLETE THIS RECORDING MODE	D PHONE NUMBER Michael NOAA/EDIS, AEIDC, 707 S SECTION IF DATA ARE ON MAGN BCD BINARY ASCII XX EBCDIC SEVEN XX NINE 200 BPI XX 1600 BPI	A Street, Anchorage, AK 99501 SETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDIC ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 780124 78/01/24 WEBBER 9TRK, 1600BPI, ODD, ERCDIC

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF IN	ISTITUTION, LABOR	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA A	RE ASSOCIATED
Dr. Herbert L. Webber						
Huxley College	of Environmen	tal Stud	iies			
Western Washin	gton State Uni	versity				
Bellingham, WA	98225	•				
			Ta			
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		IBER(S) USED E	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget	Sound Project					
R.U. 106	boding 110ject		ĺ		78010 6	
100						
					· .	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	AND OPERATOR 'Y(IES)		TES
			PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YR
}] }		{	ł·
					01/06/78	01/06/78
8. ARE DATA PROPRIETARY	?		SE DARKEN ALI			
XXNO YES		CONT	RINED IN TOUR	SUBMISSION WI	ERE COLLECT	- D.
						}
IF YES, WHEN CAN TH		GENERAL AREA				
9. ARE DATA DECLARED NA						
PROGRAM (DNP)?	CLUDED IN WORLD	1887 1897 1807 1807 1807 1807 1807 1007 C21 007 647 207 0 87 607 607 607 607 607 607 607 607 607 60				
DATA CENTERS HOLDINGS		770 770 770 770 770 770 770 770 770 770				
TIONAL EXCHANGE?)		m. 20	P/2 222	27 26 22	Pana	775 243 gg-
NO XX YES PART	(SPECIFY BELOW)	204	4 1 1	191 1	The state of the s	212 207
		40- 170	165 160	155 29136		2762 9 171
	•		7 129 124 1093 1088	119 114		
10. PERSON TO WHOM INQUIRE	ES CONCERNING		057 052 021 016	007 042	037072	000 211° 000 211°
DATA SHOULD BE ADDRES	SED WITH TELE-	. 22	320 315	310 305	300 339	W23 1 1926 P
PHONE NUMBER (AND ADD THAN IN ITEM-1)	RESS IF OTHER	28. 261	356 4 351	346 341		967 362 403 398
Michael L. Crane		40 00		100 100	1 0000	G4 (g.
NOAA/Edis			944 S 59	54 8 69	444 479	67 470
AEIDC 707 A St.		80° 505		90 985	480515	511 506 60°
707 Å St. Anehorage, AK 9950	17	543	536 531	520 521	516551	549 540
Anehorage, AK 9950 Ph: (907) 279-4523	′ ±	577 T	572 567	562 557	40° 20° 9° 20°	563 578
		140 144 1	144 IN 150 IN	150. 100. 40. 20.		
NOAA FORM 24-13					USCO	MM-DC 44289-P72

	CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
11 11 11 11	l (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
2. GIVE BRIEF DESCRIF	PTION OF FILE ORGANIZATION	
	numbers for proper order	th. Record types are sorted by station r. Each record type is a new station
	· •	•
	FORTRAN	
	SECTION IF DATA ARE ON MAGNE	
5. 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
6. NUMBER OF TRACKS (CHANNELS)	SEVEN	
	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
		10/ 100 70010/
7. PARITY	TY ODD	106 100 780106 78/01/06 WEBBER 9TRK,1600BPI, ODD, EBCDIC
8. DENSITY		ALMATOAABLTA ODDA FEDRIC
	200 BPI XX 1600 BPI	·
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	800 BPI	4,000 characters/block
		13. LENGTH OF BYTES IN BITS
	<u> </u>	(
NOAA FORM 24-13		USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION	, LABORATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA A	RE ASSOCIATED
Dr. Herbert L. Webber		• •			
Huxley College of Envi Western Washington Sta					
Bellingham, WA 98225					
2. EXPEDITION, PROJECT, OR PROGRAI DATA WERE COLLECTED	M DURING WHICH		MBER(S) USED E	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound Pr R.U. 106	coject			780508	
	ORM TYPE(S) HIP, BUOY, ETC.)	6. PLATFORM / NATIONALIT	AND OPERATOR	Ì	TES
		PLATFORM	OPERATOR	FROM: MO,DAY,YF	TO: MO/DAY/YR
				05/08/78	05/08/78
8. ARE DATA PROPRIETARY?		SE DARKEN AL			
XXNO TES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECTI	ED.
IF YES, WHEN CAN THEY BE RELE	ASED		GENERAL AR	PFA	
•	NTH				
PROGRAM (DNP)?	1	140* 160* 180* 180* 140	r 130° 100° C9° 60 °	40° 20° 6° 20°	40° 63° C0° 100°
(I.E., SHOULD THEY BE INCLUDED IN DATA CENTERS HOLDINGS FOR INTE	RNA-		o Cross	7 7700	284 () () () () ()
TIONAL EXCHANGE?)	242	23	27 3 2 2	Ozubay le	249 249
NO XX YES PART (SPECIFY I	BELOW) 206	4 1	191 19	Maria 4	212 207
	40 170	165 160	1155 125		176 2 0 171 140 135 40°
	20. 00	073 088 057 052	ag Call an	/07300B	104 D89 24-
10. PERSON TO WHOM INQUIRIES CONCEP DATA SHOULD BE ADDRESSED WITH		021 016 3320 315	911 7 Day	7001034	631 027 e-
PHONE NUMBER (AND ADDRESS IF O'S		V 356 2 351 382 347	346 341	336 371	20-
Michael L. Crane	40 65		418 .7 .81		69 64 60*
NOAA/Edis		7464 C\$ 469 500 485	450 450	 - - - - - - - - - - - - - - - - - - -	511 506
AEIDC 707 A St.	80-	536 531	500	516551	547_ 549
Anehorage, AK 99501	377	377 567	542 557	552 550	543 578
Ph: (907) 279-4523	100° 120°	146* 189* 180* 180* 140	9° 120° 100° 80° 60°	40° 20° 0° 20°	40" 60" 80" 100"

			IN THE TRANSMITTA ACH RECORD TYPE	L OF YOUR FILE
Record 7	11	2 (Sedimer 3 (Biologi	n Header Record) nt Size Analysis ical Sample Desc s Identification ecord)	Record)
2. GIVE BRIEF D	ESCRIF	TION OF FIL	E ORGANIZATION	
	uence	numbers i		th. Record types are sorted by station Each record type is a new station
	COMPI	JTER SPECIA PHONE NUMB	BER Michael L.	Crane (907) 279-4523 Street, Anchorage, AK 99501
5. RECORDING M		BCD	BINARY SECONO	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
				OCTAL 17
6. NUMBER OF T		SEVEN		
(0		XXNINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
			· a · 	
7. PARITY		XX ODD EVEN		106 100 780508 78/05/08 WEBBER
8. DENSITY			····	9TRK,1600BPI, DDD, EBCDIC
		200 BPI	XX 1600 BPI	
1			and the second	12. PHYSICAL BLOCK LENGTH IN BYTES
		556 BPI		4,000 characters/block
		800 BPI		13. LENGTH OF BYTES IN BITS
}				4:
NOAA FORM 24-1:	<u> </u>			<u></u>
FURM 44*1	•			USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20662

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmen Western Washington State Uni Bellingham, WA 98225	versity	
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	BY ORIGINATOR TO IDE	NTIFY
NOAA, MESA Puget Sound Project R.U. 106	780426	
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		
	PLATFORM OPERATOR FROM MO PAYY TO: MO	DAY/YR
	04/26/78 04/2	6/78
8. ARE DATA PROPRIETARY?	11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DOCUMENTAINED IN YOUR SUBMISSION WERE COLLECTED.	ATA
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USET YEARMONTH	GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	1887 1287 1467 (657 1807 1807 1407 1507 1007 601 807 407 207 67 207 407 607 807	100*
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW) 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St.	0	245 207 207 207 207 207 207 207 207 207 207
Anchorage, AK 99501 Ph: (907) 279-4523	541 534 531 526 57 557 555 57 57	578

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

	PES CONTAINED IN THE TRANSMI IDENTIFYING EACH RECORD TY	
Record Tyj " " " "	pe 1 (Station Header Reco 2 (Sediment Size Analy 3 (Biological Sample 1 4 (Species Identificat 7 (Text Record)	ysis Record) Description)
	 	
2. GIVE BRIEF DES	CRIPTION OF FILE ORGANIZATIO	N
	nce numbers for proper of	ength. Record types are sorted by station rder. Each record type is a new station
NAME /	FORTRAN MPUTER SPECIALIST: AND PHONE NUMBER <u>Michae</u>	ALGOL COBOL LANGUAGE 1 L. Crane (907) 279-4523 7 A Street, Anchorage, AK 99501
		THE PERCENT MEMORITARIES IN THE PERCENT PROPERTY OF THE PERCENT PROPERTY PROPERTY OF THE PERCENT PROPERTY PR
S. RECORDING MOD	HIS SECTION IF DATA ARE ON MA	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
		10. END OF FILE MARK
6. NUMBER OF TRA (CHANNELS)		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY	TY ODD	78/04/26 WEBBER 9TRK,1600BPI, ODD, EBCDIC
. DENSIT	200 BPI XX 1600 BPI	ALIMATOODETA ONDA EDUNTO
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block
		13. LENGTH OF BYTES IN BITS
NOAA FORM 24-13		USCOMMODE AA2800RT

USCOMM-DC 44289-P72

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Huxley College of Environmental Studies

Dr. Herbert L. Webber

Western Washin Bellingham, WA	ngton State Uni A 98225	versity				
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		MBER(S) USED I	BY ORIGINATOR	R TO IDENTIFY
NOAA, MESA Puget R.U. 106	Sound Project				780516	i
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM / NATIONALIT	AND OPERATOR Y(IES)	7. DA	TES
			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
					05/16/78	05/16/78
8. ARE DATA PROPRIETARY	7				UARES IN WHIC ERE COLLECTI	
IF YES, WHEN CAN TH FOR GENERAL USE!				GENERAL AR	REA	
9. ARE DATA DECLARED NA PROGRAM (DNP)?	TIONAL	100" 120"	140° 160° 180° 180° 140	r 120° 100° 60° 68°	40" 20" @" 20"	40° 60° 60° 100°
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDING TIONAL EXCHANGE?) NO XX YES PAR	S FOR INTERNA- T (SPECIFY BELOW)	278 200 200 200 200 200 200 200 200 200 20	237 232 237 232 24 207 1 24 26 140 24 24 29 28 207 29 29	263 (27) 227 3 27 3 27	073 108	7 140 135 104 099 211
10. PERSON TO WHOM INQUIRED DATA SHOULD BE ADDRESS PHONE NUMBER (AND ADDITION IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 9950 Ph: (907) 279-4523	SED WITH TELE- DRESS IF OTHER	8° 505 77 80° 541 77 80° 541 77 80° 541 77 80° 541 80°	021 016 315 315 325 325 325 325 325 325 325 325 325 32	011 090 000 000 000 000 000 000 000 000	100 236 300 333 300 337 372 407 400 443 444 477 5 440 515 5 16 551	102 102 103
NOAA FORM 24-13		_			USCO	MM-DC 44289-P72

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
Record Type """ """ """	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
	numbers for proper order	th. Record types are sorted by station r. Each record type is a new station
	FORTRAN PUTER SPECIALIST: PHONE NUMBER <u>Michael L.</u>	ALGOL COBOL LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
		·
5. 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
6. NUMBER OF TRACK (CHANNELS)	S	
(CHANNELS)	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY		106 100 780516
8. DENSITY	TYODD EVEN	78/05/16 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BP1	
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	800 BPI .	4,000 characters/block
		19. LENGTH OF BYTES IN BITS
<u></u>	<u> </u>	
NOAA FORM 24-13		USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
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RECORDS SECTION
ROCKVILLE, MARYLAND 20852

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF IN	STITUTION, LABORA	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
	of Environmen gton State Uni		dies			
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		ABER(S) USED E	Y ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget R.U. 106	Sound Project				780427	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO	E(S) Y, ETC.)	6. PLATFORM A	AND OPERATOR		TES
			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
					04/27/78	04/27/78
8. ARE DATA PROPRIETARY XX NO YES IF YES, WHEN CAN TH	EY BE RELEASED				UARES IN WHIC ERE COLLECTI	
FOR GENERAL USE? 9. ARE DATA DECLARED NAPOGRAM (DNP)? (I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PART	CLUDED IN WORLD	778 - 65 778 - 65 206 - 206 40° 334 - 7	180" 180" 180" 180 160 172 235 237 232 120 120 120 120 120 120 120 120 120 120 120 120	253 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	\$ 25200 2022 25 0 1421 25 0 1421 25 0	274 (1 AC 279 274 (2 279 274
10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 9950 Ph: (907) 279-4523	SED WITH TELE- RESS IF OTHER	9° 361 77 120° 120° 1	1021 016 1230 315 1356 351 1367 425 1068 351 1370 425 1070 4	011 320 325 327 327 327 328 328 327 327 327 328 328 327 327 328 328 327 327 328 328 328 328 328 328 328 328 328 328	701 036 300 339 336 371 372 077 403 040	1027 0°

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

		IN THE TRANSMITTA	AL OF YOUR FILE
Record Ty	2 (Sedimer 3 (Biolog: 4 (Species	n Header Record nt Size Analysical Sample Des s Identification ecord)	s Record) cription)
2. GIVE BRIEF DES	CRIPTION OF FIL	E ORGANIZATION	<u> </u>
Each reco and seque header re	nce numbers :	racters in leng for proper orde	th. Record types are sorted by station r. Each record type is a new station
3. ATTRIBUTES AS 4. RESPONSIBLE CONAME	OMPUTER SPECIA	PL-1 FORTRAN ALIST: BER Michael L	ALGOL COBOL LANGUAGE Crane (907) 279-4523
ADDRE	ss <u>NOAA/EDI</u>	S. AEIDC, 707 A	Street, Anchorage, AK 99501
COMP. ETE T	We section is	DATA ARE ON MAGNE	TIC TABL
5. RECORDING MOI	DE BCD	BINARY XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
		CAA - DOD!	10. END OF FILE MARK
6. NUMBER OF TR	7CK8		
(CHANNELS			
	XXNINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
			OF DATA TITE, VOLUME NUMBER)
7. PARITY		 	106 100 780427
	XX ODD		78/04/27 WEBBER
8. DENSITY			9TRK, 1600BPI, ODD, EBCDIC
	200 BPI	XX 1600 BPI	and the day the day the
	556 BPI	_	12. PHYSICAL BLOCK LENGTH IN BYTES
			4,000 characters/block
}	800 BPI	•	13. LENGTH OF BYTES IN BITS
	<u> </u>		-
NOAA FORM 24-18			USCOMM-DC 44289-P7

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
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NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmen Western Washington State Uni Bellingham, WA 98225					
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E	Y ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget Sound Project R.U. 106			:	780418	
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A	AND OPERATOR Y(IES)	7. DA	TES
		PLATFORM	OPERATOR	FROM: MODAY,YF	TO: MO/DAY/YR
				04/18/78	04/18/78
8. ARE DATA PROPRIETARY? XXNO YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USET YEAR MONTH		SE DARKEN ALI AINED IN YOUR		ERE COLLECT	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	278 7 25 278 7 25 242 9 30 20 40 334 7 20 002	160° 160° 160° 160° 160° 160° 160° 160°	233 (20 22 22 22 22 22 22 22 22 22 22 22 22 2	To prove	224 (100° 100° 279 243 243 243 243 243 243 243 243 243 243
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523	20° 505 507 100° 120°	100 100	011 300 305 346 346 341 348 347 377 418 454 441 490 482 526 527 521	100 234 300 335 304 371 / 302 437 / 408 443 444 479 400 515 516551 40° 20° 0° 20°	Second S

	CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
11 11 11 11 11 11	l (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
2. GIVE BRIEF DESCRIF	PTION OF FILE ORGANIZATION	
Each record and sequence header record	numbers for proper order	th. Record types are sorted by station Each record type is a new station
	•	·
	FORTRAN UTER SPECIALIST: PHONE NUMBER Michael L.	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
5. RECORDING MODE	BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
	<u> </u>	OCTAL 17
6. NUMBER OF TRACKS (CHANNELS)	SEVEN	
	XXNINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY		106 100 780418
7. PARILY	YYODD EVEN	78/04/18 WEBBER
B. DENSITY		9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI	
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	800 BPI .	4,000 characters/block 13. LENGTH OF BYTES IN BITS
		4 :
NOAA FORM 24-13		USCOMM-DC 44289-P72

NOAA FORM 24-13

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

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Western Washin Bellingham, WA	e of Environmen ngton State Uni 1 98225	versity	dies			
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED NOAA, MESA Puget R.U. 106		WHICH		BER(S) USED E IS SHIPMENT	780425	TO IDENTIFY
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES
		,	PLATFORM		FROM: MO,DAY,YR	TO: MO/DAY/YR
					04/25/78	04/25/78
8. ARE DATA PROPRIETARY XX NO YES IF YES, WHEN CAN THE FOR GENERAL USES	EY BE RELEASED		SE DARKEN ALI AINED IN YOUR		ERE COLLECT	
9. ARE DATA DECLARED NAPROGRAM (DNP)? (I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PART 10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRESS PHONE NUMBER (AND ADDITHAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 9950 Ph: (907) 279-4523	CLUDED IN WORLD S FOR INTERNA- T (SPECIFY BELOW) ES CONCERNING ISED WITH TELE- DRESS IF OTHER	276 128° 128° 128° 1276 128° 128° 128° 128° 128° 128° 128° 128°	168° 180° 180° 140°	130° 100° 50° 80° 10° 222 227 227 222 391 144 144 144 144 144 144 144 144 144 1		284 (127) 284 (127) 284 (127) 284 (127) 284 (127) 284 (127) 284 (127) 285 (127) 285 (127) 285 (127) 285 (127) 285 (127) 285 (127) 285 (127) 285 (127) 285 (127) 286 (127) 287 (127) 288 (127) 288 (127) 288 (127) 288 (127) 288 (127) 288 (127) 288 (127) 288 (127) 289 (127) 280 (127) 280 (127) 281 (127) 282 (127) 283 (127) 284 (127) 285 (1

			IN THE TRANSMITTAL	L OF YOUR FILE
Record '	11	2 (Sedimer 3 (Biologi	Header Record) at Size Analysis cal Sample Desc dis Identification ecord)	Record)
2. GIVE BRIEF D	ESCRIF	TION OF FIL	E ORGANIZATION	
	uence	numbers i		h. Record types are sorted by station . Each record type is a new station
	COMP	UTER SPECIA PHONE NUME	BER Michael L.	Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE	THIS	SECTION IF D	ATA ARE ON MAGNE	TIC TAPE
5. RECORDING N	ODE	BCD ASCII	BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17
6. NUMBER OF T	RACK			·
(CHANNE	LS)	XX NINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY				106 100 780425
8. DENSITY		EVEN 200 BPI	XX 1600 BPI	78/04/25 WEBBER 9TRK,1600BPI, ODD, EBCDIC
		556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES
				4,000 characters/block
		800 BPI		13. LENGTH OF BYTES IN BITS
				4
				
NOAA FORM 24-1	8			USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

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Dr. Herbert L. Webber Huxley College of Environmen Western Washington State Uni Bellingham, WA 98225	versity		······			
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		IBER(S) USED E IS SHIPMENT	BY ORIGINATOR	TO IDENTIFY	
NOAA, MESA Puget Sound Project R.U. 106				780630		
4. PLATFORM NAME(S) 5. PLATFORM TYP (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	Y(IES)		TES	
		PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR	
				06/30/78	06/30/78	
8. ARE DATA PROPRIETARY?		SE DARKEN ALL				
XXNO YES	[
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH	İ	GENERAL AREA				
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100" 120" 1	146° 160° 180° 180° 140°	. 120- 180- 80- 88-	40" 20" 8" 20"	40° 80° 80° 180°	
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	278 - 8 242 - 200	234 232 232 232 232 232 232 232 232 232	227 227 227 227 227 227 227 227 227 227	107/024 073/008 087/07Z	104 099 210	
NO. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523	0° 125 7° 127 128° 128° 128° 128° 128° 128° 128° 128°	22) 016 230 315 250 315 250 315 250 46 4 331 250 450 450 250 465 250 4	011 956 310 955 344 341 352 377 415 pt3 454 466 460 465 526 521 526 527 120 100 80 50	336(371) 372(407)	1032 1027 0° 531	

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

	CONTAINED IN THE TRANSMITTA NTIFYING EACH RECORD TYPE	L OF YOUR FILE
n ii ii ii ii ii	(Station Header Record) (Sediment Size Analysis (Biological Sample Desc (Species Identification (Text Record)	Record)
		
2. GIVE BRIEF DESCRIP	TION OF FILE ORGANIZATION	
Each record and sequence header record	numbers for proper order	th. Record types are sorted by station Each record type is a new station
	FORTRAN JTER SPECIALIST: PHONE NUMBER <u>Michael L</u>	Crane (907) 279-4523 Street, Anchorage, AK 99501
COMPLETE THE	SECTION IS DATA ADE ON MACHE	TIC TARE
5. 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
6. NUMBER OF TRACKS		1
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY 8. DENSITY	ODD EVEN	106 100 780630 78/06/30 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI 556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-18		USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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A. ORIGINATOR IDENTIFICATION

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Dr. Herbert L. Webber Huxley College of Environmen Western Washington State Uni Bellingham, WA 98225	versity				
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED NOAA, MESA Puget Sound Project	WHICH		MBER(S) USED E	ORIGINATOR	TO IDENTIFY
R.U. 106				780621	
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	ND OPERATOR Y(IES)		TES
		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
				06/21/78	06/21/78
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR			
XX NO YES					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR	GENERAL AREA				
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100" 120"	140- 160- 180- 180- 140	. 120. 100. 63. 20.	40° 20° 0° 20° 4	10° 60° 80° 100°
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)	218 4 64	27, 12, 22	271 20 22	S Gran	24 () 27v
NO XX YES PART (SPECIFY BELOW)	206	1 ies 1 160	191 128	IN EIGH	212 207 2176 2 5 171
	20. M	129 124 1993 088	119 114	107048	* 120 1 1 1 1 1 1 1 1 1
10. PERSON TO WHOM INQUIRIES CONCERNING		057 052 021 016	000 000 011 000 010 000	901 074 300 335	002 0°
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	20. 361	351 362 367	346 341 342 377	334371	967 362 403 398
Michael L. Crane	45- 455	1 623 D 623		444 (75	67 470
NOAA/Edis	505	500 495	970 25	480 515	511 506
AEIDC 707 A St. Anehorage, AK 99501	5417	536 531	526 521	5166551	30
Ph: (907) 279-4523	577 120°		- 120° 100° 80° 60°	40° 20° 0° 20°	533 578 G* 60* 80* 100*
NOAA FORM 24-13				USCO	MM-DC 44390-D33

1. LIST RECORD TYPES CONTAINED IN THE TRAI GIVE METHOD OF IDENTIFYING EACH RECORD	
Record Type 1 (Station Header F " " 2 (Sediment Size Ar " " 3 (Biological Samp) " " 4 (Species Identifi " " 7 (Text Record)	alysis Record) Le Description)
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZA	TION
	n length. Record types are sorted by station order. Each record type is a new station
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRA	ALGOL COBOL AN LANGUAGE
	nael L. Crane (907) 279-4523 707 A Street, Anchorage, AK 99501
COMPLETE THIS SECTION IF DATA ARE ON	MAGNETIC TAPE
5. RECORDING MODE BCD BINARY	
	OCTAL 17
6. NUMBER OF TRACKS (CHANNELS) SEVEN	
XX NINE	111. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY YYODD EVEN	106 100 780621 78/06/21 WEBBER
8. DENSITY 200 BPI XX 1600 BP	9TRK,1600BPI, ODD, EBCDIC
□ 800 BPI	4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-18	// UBCOMM-DC 44289-P72

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED	
Dr. Herbert L. Webber						
Huxley College of Environmen	tal Stu	dies				
Western Washington State Uni						
Bellingham, WA 98225	•					
C		To anyone				
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		IBER(S) USED E	Y ORIGINATOR	R TO IDENTIFY	
NOAA, MESA Puget Sound Project			•			
R.U. 106		ļ		780701		
			1			
4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) 6. PLATFORM AND OPERATOR 7. DATES						
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		NATIONALIT	Y(IES)			
į į		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR	
			•			
ł		ŀ		07/01/78	07/01/78	
		Ì				
8. ARE DATA PROPRIETARY?		SE DARKEN AL				
XXNO YES	CONT	AINED IN YOUR	SUBMISSION WI	ERE COLLECTI	ED.	
-	}					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH	ļ	GENERAL AREA				
9. ARE DATA DECLARED NATIONAL						
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD						
DATA CENTERS HOLDINGS FOR INTERNA-						
TIONAL EXCHANGE?)	m. 500	27	27 3 3 72	21753	2/48 2/3	
NO XX YES PART (SPECIFY BELOW)	206	4 201	101	in the same	212 207	
	40- 170	165 160	155 59150	1001100	171	
·	<u>"</u>	27 129 124 124 1068	110 114		A TOM SHOW	
10. PERSON TO WHOM INQUIRIES CONCERNING		057 052	047 042	037072	000 21/°	
DATA SHOULD BE ADDRESSED WITH TELE-	2	320 315	310 305	300 339	531 326	
PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	** M	354 d 351 362 380	346 343		867 362 403 398 20°	
Michael L. Crane	40 63 4	(de) (2)	412 200	408 443	639 634 400	
NOAA/Edis	464	464 \$ 459	454 8 449	- 	67 (270	
AEIDC 707 A St.	800 505	500 495	490 485	480515	511 506 60*	
707 A St. Anehorage, AK 99501	547	536 531	526 521	516551	507	
Anehorage, AK 99501 Ph: (907) 279-4523	577 100° 120°		562 557 * 120* 100* 80* 80*	40° 20° 0° 20°	583 578 40° 60° C0° 100°	
					}	
NOAA FORM 24-13	L				MM-DC 44289-P72	

		IN THE TRANSMITT ACH RECORD TYPE	AL OF YOUR FILE
Record Ty	2 (Sedimen 3 (Biologi 4 (Species	Header Record it Size Analysi cal Sample Des Identification	s Record) cription)
2. GIVE BRIEF DES	CRIPTION OF FIL	E ORGANIZATION	
Each reco and seque header re	nce numbers i	racters in leng for proper orde	th. Record types are sorted by station er. Each record type is a new station
	OMPUTER SPECIA	ER <u>Michael I</u>	ALGOL COBOL LANGUAGE Crane (907) 279-4523
ADDRI	ESS NUAA/EDIS	O. ALIDG. /U/ A	Street, Anchorage, AK 99501
COMPLETE T		BINARY EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17
6. NUMBER OF TR (CHANNELS			11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY	YYODD EVEN	XX 1600 BPI	106 100 780701 78/07/01 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-18			USCOMM-DC 44289-P7

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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Dr. Herbert L. Webber						
Huxley College of Environmen	tal Stu	dies			i	
Western Washington State Uni						
Bellingham, WA 98225	•					
	···	<u> </u>				
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E IIS SHIPMENT	BY ORIGINATOR	TO IDENTIFY	
NOAA, MESA Puget Sound Project		Ī			Į	
R.U. 106		ļ	:	780622		
R.U. 100			!			
·						
4. PLATFORM NAME(S) 5. PLATFORM TYPI (E.G., SHIP, BUO		6. PLATFORM / NATIONALIT	AND OPERATOR 'Y(IES)	7. DA	TES	
		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR	
]		l		06/22/7B	06/22/78	
8. ARE DATA PROPRIETARY?		SE DARKEN AL				
XXNO YES	CONT	AINED IN YOUR	SUBMISSION WI	ERE COLLECT	ED.	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH			GENERAL AR	EA		
9. ARE DATA DECLARED NATIONAL		148* 160* 180* 180* 14	P 120° 100° 80° 80°	40* 20* 0* 20*	40° 60° 60° 100°	
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD						
DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?)						
	100.		27 36 7 22	21725	42-CS 7 243 10°	
NO XX YES PART (SPECIFY BELOW)	206	4 2	191 184	18 18 19	212 207	
	40- 170	129 124 124	119 134		176 2 0 171 100 135	
		043 088	100 July 107	/073b08	104 20	
	1 Prist M			(037)072	Thesi	
10. PERSON TO WHOM INQUIRIES CONCERNING		057 052 021 016	007 002	001036	1027 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-		021 016 320 315	911 966 310 965	300 335	261 326	
	8. 125 - 74 128 - 74 28. 361	021 016	011 7 204	300 333 334 371	631 326 867 362 403 598	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER	9° 23 77 1 28° 361 28° 377	021 016 320 315 3 36 4 351 362 367 428 5 423	911 926 910 925 346 941 342 977	90) 134 300 335 336 371 (377 407	326 326 367 362 403 398 404 404	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I)	469	016 020 015 036 037 028 0425 0425 0425	011 96 310 95 346 341 342 97 418 95 449 449	901336 300335 306371 372 407 40640 444479	851 320 867 342 409 398 457 470	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis	8" 22 24 24 24 24 24 24 24 24 24 24 24 24	221 016 320 315 351 351 322 351 327 428 0 423 429 0 423 429 0 475	011 506 310 505 346 341 382 377 418 654 449	90,1356 300,335 330,337 3372,407 400,443 444,479 480,513	326 326 367 362 403 398 404 404	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St.	469	016 020 015 036 037 028 0425 0425 0425	011 96 310 95 346 341 342 97 418 95 449 449	90,1356 300,335 3336,371 3372,407 400,440 444,476 440,515	501 326 657 342 20° 400 40° 457 470 511 506 60° 547	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis	469	221 016 320 315 351 351 322 351 327 428 0 423 429 0 423 429 0 475	011 506 310 505 346 341 382 377 418 654 449	90,1356 300,335 330,337 3372,407 400,443 444,479 480,513	531 326 567 362 20° (30) (30) (30) (40) (40) (40) (51) (56	
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage. AK 99501	90° 505 505 541	221 016 320 315 351 351 322 351 327 428 0 423 429 0 423 429 0 475	011 506 310 505 346 341 382 377 418 654 449	901336 300335 330371 3372407 400443 444479 440515 516551	501 326 657 342 20° 400 40° 457 470 511 506 60° 547	

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE				
11 11	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Dese 4 (Species Identification 7 (Text Record)	s Record) cription)				
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION					
	numbers for proper order	th. Record types are sorted by station r. Each record type is a new station				
4. RESPONSIBLE COMP	A. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL LANGUAGE 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501					
5. RECORDING MODE	SECTION IF DATA ARE ON MAGNE BCD BINARY ASCII XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17				
6. NUMBER OF TRACK		 				
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)				
		106 100 780622				
8. DENSITY	200 BPI XX 1600 BPI	78/06/22 WEBBER 9TRK,1600BPI, ODD, EBCDIC				
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES				
	_	4,000 characters/block				
	800 BPI	13. LENGTH OF BYTES IN BITS				
		4 :				
NOAA FORM 24-18		U5COMM-DC 44289-P72				

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

1. NAME AND ADDRESS OF INSTITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED	
Dr. Herbert L. Webber						
Huxley College of Environmen	tal Stud	lies				
Western Washington State Uni	versity					
Bellingham, WA 98225	_					
		Ta				
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		NBER(S) USED E (IS SHIPMENT	BY ORIGINATOR	R TO IDENTIFY	
NOAA, MESA Puget Sound Project		<u> </u>				
R.U. 106		1		780629		
100]]	
~~						
4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) 6. PLATFORM AND OPERATOR 7. DATES (E.G., SHIP, BUOY, ETC.) NATIONALITY(IES)					TES	
		PLATFORM	OPERATOR	FROM: MODAY/YR	TO: MO/DAY/YR	
		}	Į	l	1	
				06/29/78	06/29/78	
				ļ.	i i	
8. ARE DATA PROPRIETARY!			L MARSDEN SQ			
XXNO TYES	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.	
	1					
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEARMONTH		GENERAL AREA				
9. ARE DATA DECLARED NATIONAL						
PROGRAM (DNP)?	188° 189° 180° 180° 180° 180° 180° 180° 180° 180					
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-				\$ 53mm		
TIONAL EXCHANGE?)	80. 200	272	27 3 3 22	2020	269 7 9 263	
NO XX YES PART (SPECIFY BELOW)	206	4 1 - 1 - 1 - 1 - 1 - 1	191	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1	212 207	
	40- 170	165 160	155 2593	1	171 40	
·	I III V	2 129 1 124 1 1979 1 1982	119 114		Arna Ineo	
10. PERSON TO WHOM INQUIRIES CONCERNING	20'	057 052 021 016	011 000		032 027	
DATA SHOULD BE ADDRESSED WITH TELE-	22	320 315	310 305	300 335	531 326	
PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	20- 261	950 9 380 380	346 349		403 362 20*	
Michael L. Crane	40 63 4		415 . 105	43843	G4 G4 45.	
NOAA/Edis	464	64 6 59		┡┈┞┈┞┈┞┈┞┈┞┈┞┈	457 470	
AETDC	80* 505		990 99	480515	511 506 60°	
l 707 A St.	╽╶┋╬┼┼┿	536 531		516551		
Anehorage, AK 99501 Ph: (907) 279-4523	577	572 3 567	557		563 578	
	100" 120" 1	149" 190" 199" 190" 144 	r 120° 100° 60° 60°	40° 20° 0° 20°	40- 80- 80- 100- }	
NOAA FORM 24-13				11000	1414-DC 44000 DZ0	

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

	S CONTAINED IN THE TRANSMITTA ENTIFYING EACH RECORD TYPE	L OF YOUR FILE
Record Type """" """"" """""	1 (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	Record)
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
	numbers for proper order	th. Record types are sorted by station c. Each record type is a new station
3. ATTRIBUTES AS EXI	PRESSED IN PL-1	ALGOL COBOL
ADDRESS	PHONE NUMBERMichael L.	Street, Anchorage, AK 99501
5. RECORDING MODE	BCD BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
	ASCII XX EBCDIC	10. END OF FILE MARK
6. NUMBER OF TRACK		<u> </u>
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY	XX ODD	106 100 780629
8. DENSITY	EVEN .	78/06/29 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI	
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block
	800 BPI	13. LENGTH OF BYTES IN BITS
1	U	

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED							
Dr. Herbert L. Webber							
Huxley College of 1	Environmen	tal Stu	iles				
Western Washington		versity					
Bellingham, WA 98	3225		•				
2. EXPEDITION, PROJECT, OR PRO	GRAM DURING	WHICH	3. CRUISE NU	ABER(S) USED E	Y ORIGINATOR	R TO IDENTIFY	
DATA WERE COLLECTED DATA IN THIS SHIPMENT							
NOAA, MESA Puget Sound	Project				780620	i	
R.U. 106			Į.		IDVOEV		
	TFORM TYPE		6. PLATFORM /	AND OPERATOR	7. DA	TES	
			PLATFORM	OPERATOR	FROM: MODAY,YE	TO: MO/DAY/YR	
]			l		06/20/78	06/20/78	
			[[ł			
8. ARE DATA PROPRIETARY?					UARES IN WHIC		
XXNO YES		CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.	
		İ				į	
IF YES, WHEN CAN THEY BE I FOR GENERAL USE? YEAR_		GENERAL AREA					
9. ARE DATA DECLARED NATIONAL				r 120° 100° CD° 60°	40* 20* 0* 20*	ATTA AND ATTA 1875	
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDE	D IN WORLD						
DATA CENTERS HOLDINGS FOR I	NTERNA-				2020		
					132	┤┤┤ ┪╸┃	
NO XX YES PART (SPEC	IFY BELOW)	120	1 165	1 155 250	1 1 1 1 1 1 MW 1 1 1 1	21.2 207 2076 2 0 1771	
		40. 24	2 129 124	119 114	107144	7 140 135 48"	
		20:	073 068 057 052	929		104 pm 20*	
10. PERSON TO WHOM INQUIRIES COI			021 016	011 7 200	903,036	m2 027 a.	
DATA SHOULD BE ADDRESSED W PHONE NUMBER (AND ADDRESS I			320 315 V 566 2 361	310 305 346 341	336371(531 326 567 362	
THAN IN ITEM-1)		92 1 1927 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	382 577 418 7875	372 407 ()	GIO 634		
Michael L. Crane		40" 469	0464 8 459	54 3 64	▍▗▎▄▎▗▎▝▀▊▀ ▍ ▄ ▎▗▍	457 470 40°	
NOAA/Edis		505	300 495	990 985	480515	511 506	
AEIDC 707 A St.		50	536 531	526 521	516531	547	
Anehorage, AK 99501 Ph: (907) 279-4523		577	Bra Ser	542 557	552547	583 578	
	i	100" 120" 1	148° 189° 180° 180° 144	r 120° 100° 60° 60°	40- 20- 0- 20-	40" 50" 68" 100"	
NOAA FORM 24-13						MM-DC 44289-P72	

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							
Record Type 1 (Station Header Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)							
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION						
and sequence	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.						
4. RESPONSIBLE COMP	ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501						
COMBI ETE TUIS	SECTION IF DATA ARE ON MAGNE	TIC TARE					
5. 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					
6. NUMBER OF TRACK (CHANNELS)	SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)					
7. PARITY 8. DENSITY	TY ODD EVEN	106 100 780620 78/06/20 WEBBER 9TRK,1600BPI, ODD, EBCDIC					
	200 BPI 1600 BPI 556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS					
NOAA FORM 24-13		U8COMM-DC 44289-P7					

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE NAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION ROCK VILLE, MARYLAND 20862 NATIONAL

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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		BER(S) USED B	Y ORIGINATOR	TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106				781012			
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT	Y(IES)		TES		
		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR		
				10/12/78	10/12/78		
8. ARE DATA PROPRIETARY?		SE DARKEN ALI					
XX NO YES	35						
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USET YEARMONTH	GENERAL AREA						
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100" 120" 1	140° 160° 160° 180° 140°	120" 100" (3" 60"	40* 20* 0* 20*	er er er 107		
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)	270 - 242	27, 7, 23		\$ 50000 \$21725	284 (
NO XX YES PART (SPECIFY BELOW)	204	Toly Lead	191 124	Training -	212 207		
	40. 174	129 124	119 114	W TO THE REAL PROPERTY OF THE PERTY OF THE P	100 135 40°		
10 DEDSON TO WHOM INCUSTS COVERN	20'	093 088	989 (.a. 976 947 (.a. 942	037072	1 000 M.		
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-	* 2	022 016 200 315 V 056 4 351	910 905 346 346	90) 034 300 535	(32) (27) 0. (31) (36)		
PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)	20"	307 307 307 307 307 307 307 307 307 307	1 100 17		20° 20° 20° 20° 20°		
Michael L. Crane	49* 469	1 464 S 659	64 8 49	4609	457 470		
NOAA/Edis AEIDC	ao* 505	300 495	000 000	480 515	511 506		
AEIDC 707 A St.	501	536 531	526 521	514551	343		
Anehorage, AK 99501 Ph: (907) 279-4523	577 100° 120°		150. 163. CQ. C3.	40° 20° 0° 20°	533 578 60° 60° C3° 100°		
NOAA FORM 24-13	<u> </u>	 		11800	MM-DC 44209-973		

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						
Record !	" " 3 (Biological Sample Description) " 4 (Species Identification Record)						
		·					
2. GIVE BRIEF D	ESCRIF	TION OF FIL	E ORGANIZATION				
Each real and sequence the sequ	uence	numbers f	racters in lengt For proper order	th. Record types are sorted by station c. Each record type is a new station			
	E AND	PHONE NUME	BER Michael L	Crane (907) 279-4523 Street, Anchorage, AK 99501			
COMPLETE	THIS	SECTION IF D	ATA ARE ON MAGNE	TIC TAPE			
5. RECORDING N		BCD	BINARY XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH			
				OCTAL 17			
6. NUMBER OF T		SEVEN					
	٠	XXNINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)			
7. PARITY				106 100 781012			
		XX ODD EVEN		78/10/12 WEBBER			
8. DENSITY		<u></u>		9TRK,1600BPI, ODD, EBCDIC			
		200 BPI	XX 1600 BPI				
		556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES			
		■ 800 BPI		4,000 characters/block			
				. LENGIN OF BTIES IN BILS			
		<u></u>					
NOAA FORM 24-1	8	· · · · · · · · · · · · · · · · · · ·		USCOMM-DC 44289-P7;			

NOAA FORM 24-13 (4-72)

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

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1. NAME AND ADDRESS OF IN	STITUTION, LABOR	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED	
Dr. Herbert L. Webber							
Huxley College	of Environmen	tal Stud	iies				
Western Washin							
Bellingham, WA	98225	•					
2. EXPEDITION, PROJECT, O	R PROGRAM DURING	WHICH		MBER(S) USED E IS SHIPMENT	BY ORIGINATOR	TO IDENTIFY	
NOAA, MESA Puget	Sound Project				. 781018		
R.U. 106			Ī		, ,01010		
4. PLATFORM NAME(S)	5. PLATFORM TYPE	E(S)	6. PLATFORM A	NDOPERATOR	7. DA	TES	
	(E.G., SHIP, BUO		NATIONALIT			·	
ļ			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR	
					.		
					10/18/78	10/18/78	
8. ARE DATA PROPRIETARY			E DARKEN ALI				
XXNO YES		CONT	AINED IN YOUR	SUBMISSION WI	ERE COLLECTI	ED.	
						ŀ	
IF YES, WHEN CAN THE			GENERAL AREA				
FOR GENERAL USET							
PROGRAM (DNP)?		188° 129° 140° 163° 180° 180° 180° 180° 120° 100° 52° 60° 40° 20° 6° 28° 40° 63° 60° 100°					
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS	CLUDED IN WORLD FOR INTERNA-	270 270 200 200 270					
TIONAL EXCHANGE?)			237		(Canasi)	The 20	
NO KX YES PART	(SPECIFY BELOW)	**		191 1286	18 210	212 207	
Man Man Committee Committe	(or boile babon)	170	165 160	1 155	16 180	276 2 7 171	
		"· M	129 124	119 114	lor inc		
		200 002	093 088 0 057 052	007 5 002	/073 108 037 072	104 000 21-	
10. PERSON TO WHOM INQUIR!		- 3	021 016 320 315	310 355	90)036	1331 1226 e-	
PHONE NUMBER (AND ADD		20. 261	V 356 a 351	346 341	336371	367 382	
THAN IN ITEM-1)			987 987	382 377	372 607	(403 398 ma	
Michael L. Crane		944 8 159	E4 3 40	446/279	657 G70 G0°		
NOAA/Edis		505	500 495	00 9 05	480515	511 506 sn.	
AEIDC 707 A St.	1	543	536 531	526	516551	547 542	
Anchorage, AK 9950 Ph: (907) 279-4523	1	577	572	562 650	552587	583 578	
Ph: (907) 279-4523	•	100" 120" 1	140° 189° 180° 160° 140	120- 100- 80- 60-	40 - 20 - 0 - 20 -	40° 60° 68° 100°	
NOAA FORM 24-13			 			ئـــــــــــــــــــــــــــــــــــــ	

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						
Record Type 1 (Station Header. Record) " " 2 (Sediment Size Analysis Record) " " 3 (Biological Sample Description) " " 4 (Species Identification Record) " " 7 (Text Record)							
2. GIVE BRIEF DESCRIP	PTION OF FILE ORGANIZATION						
and sequence	Each record is 80 characters in length. Record types are sorted by station and sequence numbers for proper order. Each record type is a new station header record.						
4. RESPONSIBLE COMP	3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL FORTRAN LANGUAGE 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L. Crane (907) 279-4523 ADDRESS NOAA/EDIS, AEIDC, 707 A Street, Anchorage, AK 99501						
	SECTION IF DATA ARE ON MAGNE						
5. 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					
6. NUMBER OF TRACKS	SEVEN	1					
	XX NIN E	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)					
7. PARITY 8. DENSITY	200 BPI XX 1600 BPI	106 100 781018 78/10/18 WEBBER 9TRK,1600BPI, ODD, EBCDIC					
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS					
NOAA FORM 24-13		U5COMM-DC 44289-P72					

NOAA FORM 24-13 (4-72) 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

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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		ABER(S) USED E	Y ORIGINATOR	TO IDENTIFY	
NOAA, MESA Puget R.U. 106				781013			
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A	AND OPERATOR	7. DA	TES	
			PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR	
					10/13/78	10/13/78	
8. ARE DATA PROPRIETARY	,				UARES IN WHIC ERE COLLECTI		
IF YES, WHEN CAN THE FOR GENERAL USER		GENERAL AREA					
9. ARE DATA DECLARED NAT		100° 120°	140° 160° 180° 180° 140	r 120° 100° 60° 50°	40° 20° 0° 20°	40° 80° 80° 100°	
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PART 10. PERSON TO WHOM INQUIRED DATA SHOULD BE ADDRES	S FOR INTERNA- (SPECIFY BELOW) ES CONCERNING SED WITH TELE-	276 - 206 -	237 232 232 232 232 232 232 232 232 232	277 2 222 277 2 222 391 144 155 2 33 119 144 107 107 101 101 310 565	1075100 1075100 10371072 1001034 3003335	104 000 20° 002 002 00° 002 00° 00° 00° 00°	
PHONE NUMBER (AND ADD THAN IN ITEM-1) Michael L. Crane	RESS IF OTHER	20: 361	W 356 351 362 367 423 52 423	346 341 382 377 438 2 85	372 407	867 362 403 398 634 40°	
NOAA/Edis AEIDC 707 A St. Anchorage, AK 9950 Ph: (907) 279-4523	1	669 505 541 577	900 659 900 655 336 531	454 8 465 460 485 526 527 542 557	516551 518551	511 506 60° 547 572	
()0// 2/3-4/23		100° 120°	148° 180° 188° 188° 146	120* 100* 80* 60*	46- 20- 9- 20-	40" 60" 80" 100"	

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

	CONTAINED IN THE TRANSMITT ENTIFYING EACH RECORD TYPE	
11 11 11 11	l (Station Header Record 2 (Sediment Size Analysi 3 (Biological Sample Des 4 (Species Identification 7 (Text Record)	is Record) scription)
2. GIVE BRIEF DESCRIF	PTION OF FILE ORGANIZATION	
	numbers for proper orde	gth. Record types are sorted by station er. Each record type is a new station
	FORTRAN UTER SPECIALIST: PHONE NUMBER <u>Michael</u> I	ALGOL COBOL LANGUAGE L. Crane (907) 279-4523 A Street, Anchorage, AK 99501
COMPLETE THIS	SECTION IF DATA ARE ON MAGN	ETIC TABE
5. 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
6. NUMBER OF TRACKS		-
(CHANNELS)	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY		106 100 781013
8. DENSITY	EVEN .	78/10/13 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI	
	556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	■ 800 BPI .	4,000 characters/block
		13. LENGTH OF BYTES IN BITS
NOAA FORM 24-18		USCOMM-DC 44289-P7

NOAA FORM 24-13 (4-72) 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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Dr. Herbert L. Webber Huxley College of Environmental Studies							
Western Washington State Uni Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		ABER(S) USED I	BY ORIGINATOR	TO IDENTIFY		
NOAA, MESA Puget Sound Project R.U. 106				781019			
4. PLATFORM NAME(S) 5. PLATFORM TYPE (E.G., SHIP, BUO							
1		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR		
				10/19/78	10/19/78		
8. ARE DATA PROPRIETARY!				UARES IN WHIC ERE COLLECTI			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		GENERAL AREA					
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW) 10. PERSON TO WHOM INQUIRIES CONCERNING	270 138 270 1370 1370 1370 1370 1370 1370 1370 13	232 232 232 232 232 232 232 232 232 232	191 114 191 114 1191 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 114 119 119 114 119 119 119 119 119 119 119 119 119 119	(0731.08 (037072 (037072	1 140 135 135 100 100 100 100 100 100 100 100 100 10		
DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St.	20° 505 40° 446 40° 511	220 315 354 351 352 337 423 444 4 45 500 475 531	310 365 346 341 342 347 454 467 470 488	300 339 336 571 372 407 444 479	10 120		
Anehorage, AK 99501 Ph: (907) 279-4523	100" 120"	572 567 160° 160° 140		40° 20° 0° 20°	583 578 40° 60° 80° 160°		

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

		_	IN THE TRANSMITTA	L OF YOUR FILE
Record "" ""	" 2 " 3	CSedime CBiolog	n Header Record) nt Size Analysis ical Sample Desc s Identification ecord)	Record)
SIVE BRIEF	DESCRIP	TION OF FIL	LE ORGANIZATION	·
	quence	numbers		th. Record types are sorted by station c. Each record type is a new station
TTRIBUTES	E COMPL	ITER SPECI	PL-1	ALGOL COBOL LANGUAGE Crane (907) 279-4523
AD	DRESS _	NOAA/EDI	S, AEIDC, 707 A	Street, Anchorage, AK 99501
COMPLET		BCD BCD ASCII	DATA ARE ON MAGNE	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17
NUMBER OF (CHANNI		SEVEN		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIO OF DATA TYPE, VOLUME NUMBER)
PARITY		XX ODD EVEN		106 100 781019 78/10/19 WEBBER 9TRK,1600BPI, ODD, EBCDIC
		200 BP	1 XX 1600 BP1	12. PHYSICAL BLOCK LENGTH IN BYTES
		800 BPI		4,000 characters/block 13. LENGTH OF BYTES IN BITS
		·		

NOAA FORM 24-13

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Dr. Herbert L. Webber

Huxley College	of Environmen	tal Stu	dies				
Western Washington State University							
Bellingham, WA	98225						
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		MBER(S) USED I	BY ORIGINATOR	₹ TO IDENTIFY	
NOAA, MESA Puget	Sound Project						
R.U. 106	_		ļ -	781014			
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES	
	(2.0., 3.117, 200	1, 210.,	PLATFORM		FROM: MODAY,YR	TO: MO/DAY/YR	
İ				or annual on	PROM: /	10: / /	
					10/14/78	10/14/78	
8. ARE DATA PROPRIETARY		01 50 5 0				1	
6. ARE DATA PROPRIETARY					UARES IN WHICE ERE COLLECTI		
XX NO YES							
IF YES, WHEN CAN TH	EV RE BEI FASEN			GENERAL A	DE A		
FOR GENERAL USET		VENERAL ARCA					
9. ARE DATA DECLARED NA PROGRAM (DNP)?	TIONAL	188° 128° 140° 180° 180° 180° 180° 140° 120° 100° 80° 60° 40° 20° 6° 20° 48° 60° 80° 100°					
(I.E., SHOULD THEY BE IN		27	7472 366	C261 100	\$ 20km	204 () 1279	
DATA CENTERS HOLDINGS TIONAL EXCHANGE?)	FOR INTERNA-	242	27 24 22		(C)21/23/2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
		500	1			212 207	
NO XX YES PAR	(SPECIFY BELOW)	170	165 160	1 29	/ 	2762 2 171	
	• ,	40 34 14	129 124	110 11			
		20.	093 088 052 052	007 5 0		104 1099 1045 24°	
10. PERSON TO WHOM INQUIR			021 016	011 70	001036	032 027 0.	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD		20.	350 315	310 346 54	300 335	631 326 Ber 362	
THAN IN ITEM-1)	ALDO II O I II LA	** m	307	342 37	372 407	403 398 28*	
Michael L. Crane		40 19 19	64 3 69			67 40	
NOAA/Edis			500 495	600 8 60		511 506	
ĄĘĮDÇ S.		80°	 	^	 - 	 	
707 Å St. Anehorage, AK 9950	1		534 532	526 56 20	516551	547	
Ph: (907) 279-4523	•	100° 120° 1			40° 20° 9° 28°	583 578 40° 60° 69° 100°	
NOAA FORM 24-13		<u> </u>		 , 	usco	MM-DC 44289-P72	

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

I. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE GIVE METHOD OF IDENTIFYING EACH RECORD TYPE						
Record Ty	2 (Sedimer 3 (Biolog: 4 (Species	n Header Record) nt Size Analysis ical Sample Desc s Identification ecord)	Record)			
2. GIVE BRIEF DES	SCRIPTION OF FIL	E ORGANIZATION				
	nce numbers :		th. Record types are sorted by station c. Each record type is a new station			
	OMPUTER SPECIA	BER <u>Michael L</u>	ALGOLCOBOLLANGUAGELANGUAGELANGUAGELANGUAGE			
ADDRI	ess <u>NOAA/EDI</u>	S, AEIDC, 707 A	Street, Anchorage, AK 99501			
	·					
5. RECORDING MO		DATA ARE ON MAGNE	TIC TAPE 19. LENGTH OF INTER-			
	ВСО	BINARY	RECORD GAP (IF KNOWN) XX 3/4 INCH			
	ASCII	XX EBCDIC				
1			10. END OF FILE MARK			
			000172 17			
6. NUMBER OF TR (CHANNELS						
	XXHINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS			
			OF DATA TYPE, VOLUME NUMBER)			
			·			
7. PARITY	XX ODD		106 100 781014			
}	EVEN	,	70.740.744			
8. DENSITY			78/10/14 WEBBER 9TRK,1600BPI, ODD, EBCDIC			
		XX 1600 BP1				
	556 BPI		12. PHYSICAL BLOCK LENGTH IN BYTES			
	800 BPI		4,000 characters/block			
	<u> </u>					
NOAA FORM 24-18			U5COMM-DC 44289-P72			

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

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A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

, ,	of Environmen gton State Uni		dies			
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		MBER(S) USED I	BY ORIGINATOR	TO IDENTIFY
NOAA, MESA Puget R.U. 106			, 78 1	1017	;	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM /		7. DA	TES
	, , ,		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
					10/17/78	10/17/78
8. ARE DATA PROPRIETARY XXNO YES IF YES, WHEN CAN TH					UARES IN WHICERE COLLECTI	
FOR GENERAL USE?						
PROGRAM (DNP)? (I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PART	CLUDED IN WORLD FOR INTERNA- (Specify Below)	776 C	237 180° 180° 180° 180° 180° 180° 180° 180°	227 27 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	101/020 7773 108 2 097/072	10A 21-
10. PERSON TO WHOM INQUIRED DATA SHOULD BE ADDRESS PHONE NUMBER (AND ADDITHAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 9950 Ph: (907) 279-4523	SED WITH TELE- RESS IF OTHER	8° 32 75 38° 377 40° 466 60° 541 188° 220° 1	221 016 220 315 256 251 252 327 258 257 258 357 258 357 258 358 25	011	300 335 335 336 336 337 437 377 407 408 443 444 479	93 0° 578 100°
NOAA FORM 24-13		<u> </u>		 -	USCO	MM-DC 44289-P72

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						
n ii n n	l (Station Header Record) 2 (Sediment Size Analysis 3 (Biological Sample Desc 4 (Species Identification 7 (Text Record)	s Record) cription)				
2. GIVE BRIEF DESCRIF	TION OF FILE ORGANIZATION	 				
	numbers for proper order	th. Record types are sorted by station r. Each record type is a new station				
	FORTRAN JTER SPECIALIST: PHONE NUMBER <u>Michael L</u>	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501				
COMPLETE THIS	SECTION IF DATA ARE ON MAGNE	TIC TABE				
5. 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				
6. NUMBER OF TRACKS (CHANNELS)	SEVEN					
	XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)				
7. PARITY 8. DENSITY	EVEN .	106 100 781017 78/10/17 WEBBER 9TRK,1600BPI, ODD, EBCDIC				
	200 BPI XX 1600 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES				
	800 BPI	4,000 characters/block 13. LENGTH OF BYTES IN BITS				
NOAA FORM 24-13		· USCOMM-DC 44289-P72				

NOAA FORM 24-13 (4-72) U.S. DEPARTMENT OF COMMERCE
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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	G WHICH 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT						
NOAA, MESA Puget Sound Project R.U. 106	790118						
4. PLATFORM NAME(S) 5. PLATFORM TYPI (E.G., SHIP, BUO							
	PLATFORM OPERATOR FROM: MO/DAY/YR TO: MO/DAY/YR						
	01/18/79 01/18/79						
8. ARE DATA PROPRIETARY? XX NO YES IF YES, WHEN CAN THEY BE RELEASED	11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA						
FOR GENERAL USE? YEARMONTH	GENERAL AREA						
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW)	262 277 233 227 222 210753 12658 245 265 265 265 265 265 265 265 265 265 26						
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	8° 22						

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

I. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE GIVE METHOD OF IDENTIFYING EACH RECORD TYPE						
Record Type 1 (Station Header Record " " 2 (Sediment Size Analysis " " 3 (Biological Sample Des " " 4 (Species Identification " " 7 (Text Record)	s Record) cription)					
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION						
	th. Record types are sorted by station r. Each record type is a new station					
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORTRAN 4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Michael L	ALGOL COBOL LANGUAGE Crane (907) 279-4523					
ADDRESS NOAA/EDIS, AEIDC, 707 A	Street, Anchorage, AK 99501					
5. 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					
6. NUMBER OF TRACKS SEVEN (CHANNELS) SEVEN XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)					
7. PARITY TO DD EVEN 8. DENSITY	106 100 790118 79/01/18 WEBBER 9TRK,1600BPI, ODD, EBCDIC					
200 BPI XX 1600 BPI 556 BPI 600 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS					

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT						TO IDENTIFY	
NOAA, MESA Puget R.U. 106	Sound Project	790126					
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A		7. DA	TES	
			PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR	
				·	01/26/79	01/26/79	
8. ARE DATA PROPRIETARY XX NO YES IF YES, WHEN CAN THE FOR GENERAL USET	EY BE RELEASED				UARES IN WHICERE COLLECTE		
9. ARE DATA DECLARED NA PROGRAM (DNP)? (I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?) NO XX YES PAR	CLUDED IN WORLD	180° 128° 127° 128° 127° 128° 127° 128° 128° 128° 128° 128° 128° 128° 128	237 232 232 232 232 232 232 232 232 232	188° 108° C2° 80° C2° 100° C2°	1077 hos	284 (1) 279 284 (2) 279 284 (2) 283 283 212 207 2176 7 1171 26* 26* 209 200 200 200 200 200 200 200 200 200	
10. PERSON TO WHOM INQUIRED DATA SHOULD BE ADDRESS PHONE NUMBER (AND ADETHAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 9950 Ph: (907) 279-4523	SSED WITH TELE- DRESS IF OTHER	002 24 25 73 301 301 46° 469 46° 505 505 807 100° 120°	127 128 128 148	911 310 36 310 35 346 347 377 418 45 450 48 526 52 55	701036 300333 300333 336371 372407 40843 44469	002 003 004 005 005 005 005 005 005 005 005 005	

NOAA FORM 24-13

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						
" " 3 (Biological Sa	r Record) Analysis Record) Imple Description) ification Record)					
2. GIVE BRIEF DESCRIPTION OF FILE ORGAN	IIZATION					
Each record is 80 characters and sequence numbers for pro header record.	in length. Record types are sorted by station per order. Each record type is a new station					
·						
3. ATTRIBUTES AS EXPRESSED IN PL-1	TRANLANGUAGE					
	C. 707 A Street, Anchorage, AK 99501					
COMPLETE THIS SECTION IF DATA ARE	ON MAGNETIC TAPE					
5. RECORDING MODE BCD BING ASCII XX EBC						
	OCTAL 17					
6. NUMBER OF TRACKS (CHANNELS) SEVEN						
XX NINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)					
	· ·					
7. PARITY YYODD	79/01/26 WERRER					
8. DENSITY 200 BPI XX 1600	9TRK,1600BPI, ODD, EBCDIC					
556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES					
800 BPI	4,000 characters/block					
₩ 500 BPI	13. LENGTH OF BYTES IN BITS					
LJ						

USCOMM-DC 44289-P72

NOAA FORM 24-13

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

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

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A. ORIGINATOR IDENTIFICATION

	,		SUDMI	1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED						
Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225										
2. EXPEDITION, PROJECT, OR PROGRAM DURING WI DATA WERE COLLECTED		NUMBER(S) IN THIS SHIPM		ORIGINATOR	TO IDENTIFY					
NOAA, MESA Puget Sound Project R.U. 106	790122									
4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) (E.G., SHIP, BUOY,		ORM AND OPE	RATOR	7. DA	TES					
	PLATFO	RM OPERA	TOR F	ROM: MO AY,YR	TO: MO/DAY/YR					
				01/22/79	01/22/79					
XX NO YES	PLEASE DARKEI CONTAINED IN Y	OUR SUBMISS		RE COLLECTE						
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) NO XX YES PART (SPECIFY BELOW) 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anehorage, AK 99501 Ph: (907) 279-4523	278 272 273 274 275 275 275 275 275 275 275 275 275 275	180° 148° 128° 168° 228 223 227 27 27 27 27 27 27 27 27 27 27 27 27	10° 60° 22° 22° 22° 22° 22° 22° 22° 22° 22° 2	300 522 (073 108 (037 1072 (037 1072 (03) 1344 (300 1335)	284					

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

I. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE GIVE METHOD OF IDENTIFYING EACH RECORD TYPE						
Record Type 1 (Station Header " " 2 (Sediment Size " " 3 (Biological Sam " " 4 (Species Identi " " 7 (Text Record)	Analysis Record) uple Description)					
2. GIVE BRIEF DESCRIPTION OF FILE ORGANI	ZATION					
Each record is 80 characters and sequence numbers for prop header record.	in length. Record types are sorted by station er order. Each record type is a new station					
3. ATTRIBUTES AS EXPRESSED IN PL-1 FORT	RAN COBOL LANGUAGE					
4. RESPONSIBLE COMPUTER SPECIALIST:						
	chael L. Crane (907) 279-4523					
ADDRESS NOAA/EDIS, AEIDC	. 707 A Street. Anchorage. AK 99501					
COMPLETE THIS SECTION IF DATA ARE	ON MACHETIC TARE					
5. RECORDING MODE	9. LENGTH OF INTER-					
BCD BINA	RY RECORD GAP (IF KNOWN) XX 3/4 INCH					
ASCII XX EBCD						
	10. END OF FILE MARK					
6. NUMBER OF TRACKS						
(CHANNELS) SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE					
XXNINE	ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)					
7. PARITY	106 100 790122					
TYODD EVEN	79/01/22 WEBBER					
8. DENSITY	9TRK,1600BPI, ODD, EBCDIC					
200 BPI XX 1600 I	BPI					
556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES					
	4,000 characters/block					
800 BPI	13. LENGTH OF BYTES IN BITS					

NOAA FORM 24-18

USCOMM-DC 44289-P72

NOAA FORM 24-13 (4-72)

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

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Dr. Herbert L. Webber Huxley College of Environmental Studies Western Washington State University Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DATA WERE COLLECTED NOAA, MESA Puget Sound Pro R.U. 106		WHICH 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTITION OF THE SHIPMENT 790127					
4. PLATFORM NAME(S) 5. PLATFOR (E.G., SHI	M TYPE(S) P, BUOY, ETC.)	6. PLATFORM AND OPERATOR 7. DATES NATIONALITY(IES)			TES		
[PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR		
				01/27/79	01/27/79		
8. ARE DATA PROPRIETARY?		SE DARKEN ALI AINED IN YOUR					
IF YES, WHEN CAN THEY BE RELEAS FOR GENERAL USE? YEARMON			GENERAL AR	REA	į		
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?	100" 120"	140* 160* 180* 180* 140	. 150. 100. 63. 69.	40* 20* 0* 20*	40° 80° 80° 100°		
(I.E., SHOULD THEY BE INCLUDED IN WITH DATA CENTERS HOLDINGS FOR INTERNIONAL EXCHANGE?) NO XX YES PART (SPECIFY BE	NA 242	257 258 258 273 258 273 273 273 273 273 273 273 273 273 273	227 227 227 227 227 227 227 227 227 227	1073408	243 279 229 243 243 243 243 243 243 243 243 243 243		
10. PERSON TO WHOM INQUIRIES CONCERN DATA SHOULD BE ADDRESSED WITH TE PHONE NUMBER (AND ADDRESS IF OTH THAN IN ITEM-I) Michael L. Crane NOAA/Edis AEIDC 707 A St. Anchorage, AK 99501 Ph: (907) 279-4523	LE-	021 016 200 315 305 305 307 409 100* 100* 100* 140	011 966 310 965 346 341 342 973 413 973 434 440 456 440 470 485 526 557 120° 100° 80° 80°	901336 500333 336371 372407 40843 444479	100° 100°		

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

Record Type	2 (Station Header Record 2 (Sediment Size Analys 3 (Biological Sample De 4 (Species Identificat 7 (Text Record)	sis Record) escription)
SIVE BRIEF DESCI	RIPTION OF FILE ORGANIZATION	
	ce numbers for proper or	ngth. Record types are sorted by station der. Each record type is a new station
	·	·
		·
•	·	
	- 	LANGUAGE
NAME AN		L. Crane (907) 279-4523 A Street, Anchorage, AK 99501
NAME AN ADDRES	nd Phone number <u>Michael</u> s <u>NOAA/EDIS, AEIDC, 707</u>	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501
NAME AN ADDRESS	ND PHONE NUMBER Michael S NOAA/EDIS, AEIDC, 707 IS SECTION IF DATA ARE ON MAGE BCD BINARY	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501
NAME AN ADDRESS	ND PHONE NUMBER Michael S NOAA/EDIS, AEIDC, 707 IS SECTION IF DATA ARE ON MAG	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NAME AN ADDRESS	ND PHONE NUMBER Michael S NOAA/EDIS, AEIDC, 707 IS SECTION IF DATA ARE ON MAGE BCD BINARY	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 19. LENGTH OF INTER-
NAME AN ADDRESS COMPLETE THE RECORDING MODE	ND PHONE NUMBER	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
NAME AN ADDRESS COMPLETE THI RECORDING MODE	ND PHONE NUMBERMichael SNOAA/EDISAEIDC707 IS SECTION IF DATA ARE ON MAG BCDBINARY ASCIIXX EBCDIC CKSSEVEN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17
NAME AN ADDRESS COMPLETE THE RECORDING MODE	ND PHONE NUMBER	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK OCTAL 17
NAME AN ADDRESS COMPLETE THE RECORDING MODE	ND PHONE NUMBERMichael SNOAA/EDISAEIDC707 IS SECTION IF DATA ARE ON MAG BCDBINARY ASCIIXX EBCDIC CKSSEVEN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 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 SPECIFICATION OF DATA TYPE, VOLUME NUMBER)
NAME AN ADDRESS COMPLETE THIS RECORDING MODE MODE MODE MODE MODE MODE MODE MODE	ND PHONE NUMBERMichael SNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAG EBCDBINARY ASCIIXX EBCDIC CKSSEVENXX NINE	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 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 SPECIFICATION)
NAME AN ADDRESS COMPLETE THE RECORDING MODE MODE MODE MODE MODE MODE MODE MODE	ND PHONE NUMBERMichael SNOAA/EDISAEIDC707 IS SECTION IF DATA ARE ON MAG BCDBINARY ASCIIXX EBCDIC CKSSEVEN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127
NAME AN ADDRESS COMPLETE THE RECORDING MODE NUMBER OF TRAC (CHANNELS)	ND PHONE NUMBERMichaelsNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAGEBECDBINARYASCIIXEBCDIC CKSSEVENXXNINE	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 NETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127
NAME AN ADDRESS COMPLETE THE RECORDING MODE MODE MODE (CHANNELS)	ND PHONE NUMBERMichaelsNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAGEBECDBINARYASCIIXEBCDIC CKSSEVENXXNINE	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127 79/01/27 WEBBER
NAME AN ADDRESS COMPLETE THE RECORDING MODE MODE (CHANNELS)	ND PHONE NUMBERMichael SNOAA/EDIS_AEIDC707 IS SECTION IF DATA ARE ON MAGE BCDBINARY ASCIIXX EBCDIC CKSSEVEN XX NINE XODDEVEN	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127 WEBBER
NAME AN ADDRESS COMPLETE THE RECORDING MODE	ND PHONE NUMBERMichael SNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAGE BCDBINARY ASCIIXX EBCDIC CKSSEVEN XX NINE 200 BPIXX 1600 BPI556 BPI	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK 11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127 79/01/27 WEBBER 9TRK, 1600BPI, ODD, EBCDIC 12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block
NAME AN ADDRESS COMPLETE THE RECORDING MODE MODE (CHANNELS)	ND PHONE NUMBERMichael SNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAGE BCDBINARY ASCIIXX EBCDIC CKSSEVENXX NINE ZODDEVEN 200 BPIXX 1600 BPI	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK 10. END OF FILE MARK OCTAL 17 ORIGINATOR NAME AND SOME LAY SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127 79/01/27 WERBER 9TRK, 1600BPI, ODD, EBCDIC
NAME AN ADDRESS COMPLETE THE RECORDING MODE MODE (CHANNELS)	ND PHONE NUMBERMichael SNOAA/EDIS_ AEIDC_ 707 IS SECTION IF DATA ARE ON MAGE BCDBINARY ASCIIXX EBCDIC CKSSEVEN XX NINE 200 BPIXX 1600 BPI556 BPI	L. Crane (907) 279-4523 A Street, Anchorage, AK 99501 SNETIC TAPE 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 SPECIFICATION OF DATA TYPE, VOLUME NUMBER) 106 100 790127 79/01/27 WEBBER 9TRK, 1600BPI, ODD, EBCDIC 12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20862

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

1. NAME AND ADDRESS OF INSTITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED		
Dr. Herbert L. Webber							
Huxley College of Environmental Studies							
Western Washington State University							
Bellingham, WA 98225							
2. EXPEDITION, PROJECT, OR PROGRAM DURING DATA WERE COLLECTED	WHICH		MBER(S) USED E HS SHIPMENT	SY ORIGINATOR	R TO IDENTIFY		
NOAA, MESA Puget Sound Project							
R.U. 106			79	0121			
		<u>]</u>					
4. PLATFORM NAME(S) 5. PLATFORM TYP		6. PLATFORM	ND OPERATOR	7. DA	TES		
(E.G., SHIP, BUO	Y, ETC.)	NATIONALIT	Y(IES)				
		PLATFORM	OPERATOR	FROM: MODAY/YE	TO: MO/DAY/YR		
		†					
		}		01/21/79	01/21/79		
8. ARE DATA PROPRIETARY?		SE DARKEN ALI					
XXNO YES	CONT	AINED IN TOOK	SUBMISSION W	ERE COLLECT	ED.		
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH			GENERAL AR	EA			
9. ARE DATA DECLARED NATIONAL							
PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD	1997 1397 1	- 160° 180° 180° 140	120 100 00 07	40° 20° 8° 20°	47 87 87 180°		
DATA CENTERS HOLDINGS FOR INTERNA-				3 53 km	720		
TIONAL EXCHANGE?)	90- 202	27 22	27 32	2020	7 243 mg-		
NO XX YES PART (SPECIFY BELOW)	206	4 60	191 1286	in Signatur	212 207		
	40. 120	165 160	155	re in	2762 171		
	"	27 129 1 124 1 1973 1 1988	119 114	107/10	140 135		
	200	057 052	00	057072			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE-		021 016	310 (355	300335	027 0°		
PHONE NUMBER (AND ADDRESS IF OTHER	a. M	V 354 351	346 140	336371	28-		
THAN IN ITEM-1)		927 July 1	382 J 577	377 407 408 403	403 398 ²		
Michael L. Crane	49	164 \$ 69	54 8 5 04	444 475	67 470		
NOAA/Edis	905	200 675	900 025	480515	511 506		
AEIDC 707 A St.	30	536 531	526 2521	516551	547		
Anchorage, AK 99501 Ph: (907) 279-4523	577	577 560	562 557	552 580	583 570		
rn: (907) 279-4523	100* 120* 1	149" 160" 160" 160" 146	* 120° 100° 80° 60°	40" 20" 9" 20"	40" 60" 80" 100"		
NOAA FORM 24-13	L						

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

1. LIST RECORD TYPES CONTAINED GIVE METHOD OF IDENTIFYING E		AL OF YOUR FILE
" " 3 (Biolog	nt Size Analysi ical Sample Des s Identificatio	s Record) cription)
2. GIVE BRIEF DESCRIPTION OF FI	E ORGANIZATION	
		th. Record types are sorted by station er. Each record type is a new station
3. ATTRIBUTES AS EXPRESSED IN 4. RESPONSIBLE COMPUTER SPECI	PL-1 FORTRAN	ALGOL COBOL LANGUAGE
NAME AND PHONE NUM	BER <u>Michael L</u>	Crane (907) 279-4523
ADDRESS <u>NUAA/EDI</u>	S. AEIDC. 707 A	Street, Anchorage, AK 99501
COMPLETE THIS SECTION IF	DATA ARE ON MAGNE	
5. RECORDING MODE BCD ASCII	BINARY XX EBCDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH 10. END OF FILE MARK
6. NUMBER OF TRACKS (CHANNELS) SEVEN		
. XX NINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY VY ODD EVEN		79/01/21 WEBBER
8. DENSITY	XX 1600 BP1	9TRK,1600BPI, ODD, EBCDIC
5\$6 BP	I	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block
800 BP		13. LENGTH OF BYTES IN BITS
]		- 4.

USCOMM-DC 44289-P72

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

1. NAME AND ADDRESS OF I	STITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA A	RE ASSOCIATED	
Dr. Herbert L	. Webber						
Huxley College	Huxley College of Environmental Studies						
	ngton State Uni						
Bellingham, W	_	•					
2. EXPEDITION, PROJECT, C DATA WERE COLLECTED	OR PROGRAM DURING	WHICH		ABER(S) USED,E IIS SHIPMENT	BY ORIGINATOR	R TO IDENTIFY	
NOAA, MESA Puget	Sound Project		}				
R.U. 106	5		1	. 7	90125		
				_			
4. PLATFORM NAME(S)	5. PLATFORM TYPE	7(6)	6. PLATFORM	NDOBERATOR	17 04	TES	
4. FERTFORM RAME(S)	(E.G., SHIP, BUO		NATIONALIT		1		
			PLATFORM	OPERATOR	FROM: MODAY/YE	TO: MO/DAY/YR	
			}			<u> </u>	
	ļ		į		01/25/79	01/25/79	
	ĺ		[l		
8. ARE DATA PROPRIETARY	7		SE DARKEN AL				
XX NO YES	·	CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	FD.	
IF YES, WHEN CAN THE FOR GENERAL USE?				GENERAL AR	REA	ł	
9. ARE DATA DECLARED NA							
PROGRAM (DNP)?	ICI UDED IN WORLD		·Br	1/30- 100- 60- 60-			
DATA CENTERS HOLDING							
TIONAL EXCHANGE?)		242	27	27 70 22	1 2 1 2 1 P	J245 243 sp-	
NO XX YES PAR	T (SPECIFY BELOW)	204	4 201	191	18,5197	212 207	
·		40- 170	165 160	155 3919	100 122	71160 171	
	•	13	27 129 124 124 1099 1088	110		104 099	
10. PERSON TO WHOM INQUIR	IES CONCERNING		057 052	007	037/072	1 1 100	
DATA SHOULD BE ADDRES	SSED WITH TELE-		1 320 BIS	310 86		631 326 0°	
PHONE NUMBER (AND ADI THAN IN ITEM-1)	DRESS IF OTHER	20° 20° 1	\$556 d \$51 \$62 367	346 341 382 377		403 398 200	
Michael L. Crane		w (III)	164 S 69		40843	657 670	
NOAA/Edis		100 I		 	} 	1 1 1 1 1 1 1	
ĄĘĮDÇ		80. 502		1 100 1 79 les	┡╸┨╶╏ ╌╏╌╂╌╂╌╂	511 506	
707 A St. Anehorage, AK 995()1		536 531	526 521	516551		
Anchorage, AK 995(Ph: (907) 279-4523	-	100" 120"			40° 20° 0° 20°	583 578 40° 60° 80° 100°	
NOAA FORM 24-13		· ·			1,000	MM-DC 44289-B72	

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

	CONTAINED IN THE TRANSMITTA NTIFYING EACH RECORD TYPE	L OF YOUR FILE
11 11 11 11 11 11 11 11 11 11 11 11 11	(Station Header Record) (Sediment Size Analysis (Biological Sample Desc (Species Identification (Text Record)	Record)
2. GIVE BRIEF DESCRIP	TION OF FILE ORGANIZATION	
	numbers for proper order	th. Record types are sorted by station c. Each record type is a new station
	FORTRAN JTER SPECIALIST: PHONE NUMBER <u>Michael L</u>	LANGUAGE Crane (907) 279-4523 Street, Anchorage, AK 99501
	ECTION IF DATA ARE ON MAGNE	
5. 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
6. NUMBER OF TRACKS (CHANNELS)	SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY	TYODD EVEN .	106 100 790125 79/01/25 WEBBER 9TRK,1600BPI, ODD, EBCDIC
	200 BPI XX 1600 BPI 556 BPI 800 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 4,000 characters/block 13. LENGTH OF BYTES IN BITS
NOAA FORM 24-13		/

FILE TYPE 100 - INTERTIDAL/SUBTIDAL - 3/14/78 VERSION

THIS FORMAT IS USED TO SUPPORT PHYSICAL AND BIGLOGICAL STUDIES OF THE INTERTIDAL/SUBTIDAL REGIME. THERE ARE SEVEN DATA RECORD TYPES TO: 1) IDENTIFY THE STATION, 2) REPORT ON THE SEDIMENT ANALYSIS, 3) DESCRIBE THE BIOLOGICAL SAMPLE, 4) IDENTIFY SPECIES, 5) EXAMINATION OF AN INDIVIDUAL FISH, 6) ANALYZE THE STOMACH CONTENTS OF THE INDIVIDUAL FISH EXAMINED, AND 7) A TEXT RECORD.

EACH RECORD IS 80 CHARACTERS IN LENGTH, SORTED BY STATION AND SEQUENCE NUMBERS FOR PROPER ORDER.

NOTES AND CORRECTIONS

100/PG 1 NOTES AND CORRECTIONS

PARAMETER	DESCRIPTION	sc
STATION HEADER RECORD STATION	ALWAYS '1' FIVE-CHARACTER STATION NUMBER (FILE TYPE 100 STATION CODE MAY BE USED)	10 11
SEQUENCE NUMBER	XXXX - ALWAYS "0001" INITIALLY, THEN ASCENDING NUMERICALLY UNTIL ANOTHER RECORD '1' IS ENCOUNTERED	16
BLANKS Date (GMT)	YYMMDD	20 23
TIME (GMT)	HHMM	29
LATITUDE	DOMMSS PLUS HEMISPHERE 'N' OR 'S'	33
LONGITUDE	DDDMMSS PLUS HEMISPHERE 'E' OR 'W'	40
TEMPERATURE	XXX - SEA SURFACE NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	
SALINITY	XXX - PARTS PER THOUSAND TO TENTHS	51
DISSOLVED OXYGEN BLANK	XXXX - PERCENT SATURATION TO TENTHS	54 58
	•	
SEDIMENT SIZE ANALYSIS RECORD		10
STATION NUMBER	SEE RECORD '1'	11
SEQUENCE NUMBER SAMPLE NUMBER	SEE RECORD '1' THREE-CHARACTER UNIQUE SAMPLE ID	16 20
GEAR TYPE	TWO-CHARACTER CODE - USE CODE 0075	23
SAMPLE ELEVATION	XXX - WITH RESPECT TO MEAN LOW WATER	25
· ·	METERS TO TENTHS (NO SIGN FOR POSITIVE, FLOATING "-" FOR NEGATIVE VALUES)	
SAMPLE SURFACE AREA	XXXX - SQ METERS TO THOUSANDTHS	28
DEPTH OF SAMPLE	XXX - WHOLE MILLIMETERS	32
DRY WEIGHT	XXXXX - TOTAL WEIGHT IN WHOLE GRAMS .	35
WEIGHT OF SHELL FRACMENTS PARTICLE SIZE	XXXXX - DRY TOTAL WEIGHT IN WHOLE GRAMS THE FOLLOWING 12 FIELDS ARE USED TO	40
FARITOLE SILE	REPORT PERCENT BY WEIGHT TO TENTHS	
•	(BY PHI SIZE)	
> -6 -6 TO -5	XXX XXX	45 48
-5 TO -4	XXX	51
-4 TO -3	XXX	54
-3 TO -2	xxx	57
-2 TO -1	XXX	60
-1 TO 0 0 TO +1	XXX XXX	63 66
+1 TO +2	XXX	69
+2 TO +3	XXX	72
+3 TO +4	XXX	75
> +4	XXX	78

100/PG 2 NOTES AND CORRECTIONS

•

BIOLOGICAL SAMPLE DESCRIPTION STATION NUMBER SEQUENCE NUMBER SAMPLE NUMBER DATE (GMT) TIME (GMT) HABITAT	ALWAYS '3' SEE RECORD '1' SEE RECORD '1' THREE-CHARACTER UNIQUE QUADRANT OR HAUL YYMMDD HHMM	10 11 16 20 23 29
WAVE ENERGY SEDIMENT SIZE SURFACE ORGANICS GEAR TYPE SAMPLE ELEVATION DEPTH TO BOTTOM AREA SAMPLED VOLUME SAMPLED DISTANCED FISHED	ONE-CHARACTER CODE - USE CODE 0280 ONE-CHARACTER CODE - USE CODE 0231 ONE-CHARACTER CODE - USE CODE 0232 TWO-CHARACTER CODE - USE CODE 0075 XXXX XXX - METERS (HAULS ONLY) XXXXXXXX - SQ METERS TO THOUSANDTHS XXXXXXXXXXX - CUBIC METERS TO TEN THOUSANDTHS XXX - METERS (HAULS ONLY)	33 34 35 36 38 42 45 53
SAMPLING DURATION TIDE STAGE	XX - HOURS TO TENTHS (HAULS ONLY) ONE-CHARACTER CODE - USE CODE 0154	67 69
TIDE HEIGHT	XXX - WITH RESPECT TO MEAN LOWER LOW WATER (METERS TO TENTHS)	70
PLANT COVER	XXX - PERCENT OF SAMPLE AREA COVERED BY PLANT GROWTH TO WHOLE PERCENT	73
PHOTO TAKEN Blanks	ONE-CHARACTER CODE - USE CODE 0117	76 77
SPECIES IDENTIFICATION RECORD STATION NUMBER SEQUENCE NUMBER SAMPLE NUMBER TAXONOMIC CODE LIFE HISTORY SUBSAMPLE	ALWAYS '4' SEE RECORD '1' SEE RECORD '1' THREE-CHARACTER UNIQUE QUADRANT OR HAUL TEN-DIGIT NODC TAXONOMIC CODE ONE-CHARACTER CODE - USE CODE 0148 XX - PERCENT OF SAMPLE USED FOR COUNT AND WEIGHT COMPUTATION FOR THIS SPECIES. (PERCENT AREA FOR QUADRANTS, PERCENT VOLUME FOR NET HAULS, OR BLANK IF NO SUBSAMPLE USED FOR COMPUTATION).	23 33 34
COUNT	XXXXX - NUMBER OF ORGANISMS OF THIS	36
_	SPECIES FOR ENTIRE HAUL OR QUADRANT	
WET WEIGHT	SPECIES FOR ENTIRE HAUL OR QUADRANT XXXXXXX - GRAMS TO HUNDREDTHS OF THIS SPECIES FOR ENTIRE HAUL OR QUADRANT	41
_	SPECIES FOR ENTIRE HAUL OR QUADRANT XXXXXXX - GRAMS TO HUNDREDTHS OF THIS SPECIES FOR ENTIRE HAUL OR QUADRANT ONE-CHARACTER CODE - USE CODE 0156 XXXXXXX - GRAMS TO HUNDREDTHS OF ENTIRE HAUL OR QUADRANT	48 49
WET WEIGHT WEIGHT METHOD	SPECIES FOR ENTIRE HAUL OR QUADRANT XXXXXXX - GRAMS TO HUNDREDTHS OF THIS SPECIES FOR ENTIRE HAUL OR QUADRANT ONE-CHARACTER CODE - USE CODE 0156 XXXXXXX - GRAMS TO HUNDREDTHS OF	48
WET WEIGHT WEIGHT METHOD DRY WEIGHT	SPECIES FOR ENTIRE HAUL OR QUADRANT XXXXXXX - GRAMS TO HUNDREDTHS OF THIS SPECIES FOR ENTIRE HAUL OR QUADRANT ONE-CHARACTER CODE - USE CODE 0156 XXXXXXX - GRAMS TO HUNDREDTHS OF ENTIRE HAUL OR QUADRANT TWO-DIGIT EXTENSION OF 10-DIGIT NODC TAXONOMIC CODE (STARTING COLUMN 23,	48 49

100/PG 3 NOTES AND CORRECTIONS
ALWAYS '5' 10

	•	
INDIVIDUAL FISH EXAMINATION	ALWAYS '5'	10
STATION NUMBER	SEE RECORD '1'	11
SEQUENCE NUMBER	SEE RECORD '1'	16
SAMPLE NUMBER	THREE-CHARACTER UNIQUE QUADRANT OR HAUL	-
SPECIMEN NUMBER		.23
TAXONGMIC CODE	TEN-DIGIT NODC TAXONOMIC CODE	25
LIFE HISTORY	ONE-CHARACTER CODE - USE CODE 0148	35
NORMAL/ABNORMAL	ONE-CHARACTER CODE - USE CODE 0073	36
PRESERVATION	ONE-CHARACTER CODE - USE CODE 0073	37
LENGTH	ONE-CHARACTER CODE - USE CODE, 0082	38
ORGANISM LENGTH	XXXX - WHOLE MILLIMETERS	39
ROUND WEIGHT	XXXXXXX - WEIGHT BEFORE DRESSING IN	43
	GRAMS TO HUNDREDTHS -	
SEX	ONE-CHARACTER CODE - USE CODE 0101	50
SEXUAL MATURITY	DNE-CHARACTER CODE - USE CODE 0091	51
AGE METHOD	ONE-CHARACTER CODE - USE CODE 0090	52
AGE	XX - WHOLE YEARS	53
FIN ROT	THE FOLLOWING 7 ONE-CHARACTER FIELDS	
•	ARE USED TO IDENTIFY THE EXTENT OF	
•	ROT ON VARIOUS FINS. EACH OF THE	•
•	IDENTIFIED FINS REMAINS IN THE SAME	
	POSITION ON EACH RECORD WITH THE	
	CODE INDICATING THE EXTENT OF ROT.	
DORSAL	ONE-CHARACTER CODE - USE CODE 0087	55
ANAL	DNE-CHARACTER CODE - USE CODE 0087	56
CAUDAL . ·	ONE-CHARACTER CODE - USE CODE 0087	57
RIGHT PECTORAL	ONE-CHARACTER CODE - USE CODE 0087	58
LEFT PECTORAL	ONE-CHARACTER CODE - USE CODE 0087	59
RIGHT VENTRAL	ONE-CHARACTER CODE - USE CODE 0087	60
LEFT VENTRAL	ONE-CHARACTER CODE - USE CODE 0087	61
AEN TUMOR COUNT	THE NUMBER OF ANGIO EPITHELIAL NODULE	0.
AEN TOMOR COOK!	TUMORS FOR:	
TOTAL	· - · · · ·	60
TOTAL	XX	62 64
EYED	XX	
BLIND	XX	66
EP TUMOR COUNT	THE NUMBER OF EPIDERMAL PAPPILOMA FOR:	
TOTAL	XX	68
	XX	70
BLIND	XX	72
PARASITE OCCURRENCE-ENDO	ONE-CHARACTER CODE - USE CODE 0095	74
PARASITE OCCURRENCE-ECTO	ONE-CHARACTER CODE - USE CODE 0095	75
BLANKS	•	76
•		
•	·	
STOMACH CONTENTS EXAMINATION	ALWAYS '6'	10
STATION NUMBER	SEE RECORD '1'	11
SEQUENCE NUMBER	SEE. RECORD '1'	16
SAMPLE NUMBER	THREE-CHARACTER UNIQUE QUADRANT OR HAUL	_
SPECIMEN NUMBER	TWO-CHARACTER SCIENTIST'S IDENTIFIER	23
PREDATOR TAXONOMIC CODE	TEN-DIGIT NODC TAXONOMIC CODE	25
LIFE HISTORY	ONE-CHARACTER CODE - USE CODE 0148	35
FILE HISTORY		J J

	•		
		100/PG 4	•
	STOMACH FULLNESS	ONE-CHARACTER CODE - USE CODE 0092	36
		ONE-CHARACTER CODE - USE CODE 0155	37
		XXXXXX - GRAMS TO HUNDREDTHS	38
		TEN-DIGIT NODC TAXONOMIC CODE	44
	LIFE HISTORY	DNE-CHARACTER CODE - USE CODE 0148	54
	PREY COUNT	XXXX - NUMBER OF PREY ORGANISMS OF THIS SPECIES	55
	WET WEIGHT OF PREY	XXXXXXX - GRAMS TO THOUSANDTHS	59
	WEIGHT METHOD	ONE-CHARACTER CODE - USE CODE 0156	66
	MISCELLANEOUS STOMACH CONTENTS	DNE-CHARACTER CODE - USE CODE 0209	67
	BLANK		68
[EXI	RECORD	ALWAYS '7'	10
-/.	STATION NUMBER	SEE RECORD '1'	11
	SEQUENCE NUMBER	SEE RECORD '1' ->	16
	TEXT	61-CHARACTER FIELD FOR TEXT	20
		•	

NOTES AND CORRECTIONS

TAPE OR DISK ASSIGNMENT SHEET (MRL) 11/6/78 (Rev. 11/80)

ACCESSION/TRACK NO.: 8/00068 TR6532 - 6579

	MOK 110 0/		1700	Ja - 03	/ 7		
TAPE OF	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	JBR004	NL	83	400	FB		
DUPLICATE	000789	5 4	80	83	F		
REFORMATTED							
FIRST							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE	المها						

DATA SET ROUTE SHEET

ACCESSION/TRACK # 8/00068
TR6532-6579

<u>Step</u>	Completion Dat	e/Init.	Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #		JBR	JBR004	/	4000	80	
QUADI/SCAN TAPE #	3-19-81	800	000789	1	80	80	
DDF EVALUATION		0					
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK				<u> </u>			
FIRST USER TAPE #							
WORK DISK FILE							
FINAL USER TAPE #							
FINAL MULCHEK							
E ED DISK FILE							
DATA SET "FINALIZED"							

TRANSMITTAL AND RECEIPT RECORD

· (Please sign and return	n carbon copy acknowledging receipt)	
TO: James Ridlon	REFER TO	
NODC	D781×5-81-1	·
Page Building 1 2001 Wisconsin, N.W., Wash, D.C. 20		-
THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY		··
ORDINARY REGISTERED AIR X	CERTIFIED GOVERNMENT BY HAND	OTHER
sets. Forty-eight file I.D.'s are in sheet listing each file I.D. present the final check run listings: a tax code check. Also included are the l report list of the files, the DDF's tape.	. Included in this transmittal are conomic code check and a digital istings of the 48 files, a tracking (part A and C only), and the magnetic	
The magnetic tape specifications are	:	
9 track 1600 BPI		
EBCD1C	·	
ODD Parity		
Unlabeled	•	
Blocking factor 50 Record Length 80		
	•	
	•	
•		
·	·	
	•	
	• •	
cc: B. Webber		
S. Stillwaugh		•
		· .
	•	
WARDED BY (Signature)	TITLE	DATE FORWARDED
Michael L. Crane じんと	Alaska Liaison Officer	1/5/81
RECEIVED BY (Signature)	EDIS/AMEN Data Construction	DATE RECEIVED

NOAA FORM 24-5 (8-73)

Webber RU106 FT100 MESA data file I.D.'s

770428

1.

F100T6532 8100068

```
2.
     770407
 3.
     770430
     770408
 5.
     770419
     770406
 6.
     770822
 7.
 8.
     770701
 9.
     770826
10.
     770630
11.
     770810
12.
     770702
13.
     771118
14.
     77.1017
     771108
15.
16.
      77.1.018
17.
      771103
18.
      771015
19.
     780213
20.
     780107
21.
      780206
22.
      780108
23.
      780124
24.
      780106
25.
      780508
     .780426
26.
27.
      780516
28.
      780427
29.
      780418
30.
      780425
31.
      780630
32.
      780621
33.
      780701
34.
      780622
35.
      780629
36.
      780620
37.
      78L012
38.
      781.018
39.
      781.013
40.
      781019 -
41.
      781.014
42.
      781.017
43.
      790118
44.
      790126
45.
      790122
46.
      790127
47.
      790121
48.
      790125
```

DATE:	
TO:	
FROM:	_
SUBJ. D: Error Correction in Processing of Data	tet - Accession # 810006
1) File Type:	
2) Preject Ident.: MESA	PS
3) Track Nos.: TR 6532 -	6579
I. Error Corrections as reported to Prescipal	Investigator:
<u> Earor</u>	Correction Complete (Check'
e	
II. Additional error corrections:	
<u>Error</u>	Correction Complet (Check)
	•
be attacked)
see affaction	
III. Processor Baine: MARY R.LEU	ITS_

Carrections 8/00068

TR 65 32-65 79

1. Whight of intertidal values of -99899

were deletal.

2. Regarine sink tital spices aunit were deletal.

3. TR 6565 - erronesus values of thomp (85.3°C)

and zero (0) palinity were deletal.

4. Portions of tracks 6576 and 6577

were dut of sequence - carrected.

IAPE OR DISK ASSIGNMENT SHEET (MRL) 11/6/78 (Rev. 11/80)

CCESSION/TRACK NO.: 8/00068 TR6532 - 6579

	ACK 110 0/		1103	JJ - 63 1	7		
TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECEM	REMARKS	# RECORDS
RIGINATOR	JBR004	NL	88	4000	FB		
DUPLICATE	000789	54	80	83	F		
EFORMATTED							
FIRST							
FINAL USER							
SK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DIIN	nRL *	F 100 A.	R653	2		29,590
DITED DISK FILE		•					

ACCESSION/TRACK # 8/00068
TR6532-6579

<u>w</u>	 			····	· · · · · · · · · · · · · · · · · · ·			 -
<u>Step</u>	Completion Date	e/Init.	Tape # or DSN	# of Files	BLKSIZE	LRECL	# RE	CORD
ORIGINATOR TAPE #		JBR	JBR004	/	4000	80	29.5	90
QUADI/SCAN TAPE #	3-19-81	800	000789	1	80	80	29,5	
DDF EVALUATION	1/11/82	mos						
QUALITY REVIEW	1/11/82	mil						
PRELIMINARY DATA SORT	7.							
PRELIMINARY MULCHEK	1/11/83	DII	DRL *	FIODA	TR65	32	29.3	90
FIRST USER TAPE #	/ /							
WORK DISK FILE	1/10/83	DIIM	RLX	-100A	TR65	32		
FINAL USER TAPE #							$\top T$	
FINAL MULCHEK	1/12/83	DIL	NRLX	FIOOA	TRES	32	J	
E ED DISK FILE	17. 1							
DATA SET "FINALIZED"								

1 1	D RECEIPT RECORD on copy acknowledging receipt)	1
TO: James Ridlon NODC Page Building 1 2001 Wisconsin, N.W., Wash, D.C. 20235	REFER TO 1)781×5-81-1 AT : ENTION	
THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY [ORDINARY REGISTERED IAIR X CERT MAIL MA		OTHER
Enclosed is the finalized version of the sets. Forty-eight file 1.0.'s are inclushed listing each file 1.0. present. In the final check run listings: a taxonomicode check. Also included are the listing report list of the files, the DDF's (partage.	ded. Attached is a separate neluded in this transmittal are ic code check and a digital ngs of the 48 files, a tracking	
The magnetic tape specifications are:		
9 track 1600 BPI EBCDIC ODD Parity Unlabeled Blocking factor 50 Record Length 80		
·		
ec: B. Webber S. Stillwaugh		·
Michael I Connect 1		DATE FORWARDED
DECEIVED BY (Signature) of	ska Linison Officer Description (1818)	1/5/81 DATE PECEIVED

Password	•							
accNo		refNo	proi	inst	ship	startDate	cruise	catId
8100068	F100	TR6532	0082	312W	3199	1977/04/28	770428	313749
8100068		TR6533		312W	3199	1977/04/07	770407	313750
8100068	F100	TR6534	0082	312W	3199	1977/04/30	770430	313751
8100068		TR6535	0082	312W	3199	1977/04/08	770408	313752
8100068	F100	TR6536	0082	312W	3199	1977/04/19	770419	313753
8100068	F100	TR6537	0082	312W	3199	1977/04/06	770406	313754
8100068	F100	TR6538	0082	312W	3199	1977/08/22	770822	313755
8100068	F100	TR6539	0082	312W	3199	1977/07/01	770701	313756
8100068	F100	TR6540	0082	312W	3199	1977/08/26	770826	313757
8100068	F100	TR6541	0082	312W	3199	1977/06/30	770630	313758
8100068	F100	TR6542	0082	312W	3199	1977/08/10	770810	313759
8100068	F100	TR6543	0082	312W	3199	1977/07/02	770702	313760
8100068	F100	TR6544	0082	312W	3199	1977/11/18	771118	313761
8100068	F100	TR6545	0082	312W	3199	1977/10/17	771017	313762
8100068	F100	TR6546	0082	312W	3199	1977/11/08	771108	313763
8100068	F100	TR6547	0082	312W	3199	1977/10/18	771018	313764
8100068		TR6548	0082	312W	3199	1977/11/03	771103	313765
8100068		TR6549	0082	312W	3199	1977/10/15	771015	313766
8100068		TR6550	0082	312W	3199	1978/02/13	780213	313767
8100068		TR6551	0082	312W	3199	1978/01/07	780107	313768
8100068		TR6553	0082	312W	3199	1978/01/08	780108	313769
	F100	TR6554	0082	312W	3199	1978/01/24	780124	313770
8100068	F100	TR6555	0082	312W	3199	1978/01/06	780106	313771
8100068	F100	TR6557	0082	312W	3199	1978/04/26	780426	313772
	F100	TR6558	0082	312W	3199	1978/05/16	780516	313773
8100068	F100	TR6559	0082	312W	3199	1978/04/27	780427	313774
8100068	F100	TR6560	0082	312W	3199	1978/04/18	780418	313775
8100068	F100	TR6562	0082	312W	3199	1978/06/30	780630	313776
8100068	F100	TR6563	0082	312W	3199	1978/06/21	780621	313777
8100068	F100	TR6564	0082	312W	3199	1978/07/01	780701	313778
8100068	F100	TR6565	0082	312W	3199	1978/06/22	780622	313779
8100068	F100	TR6566	0082	312W	3199	1978/06/29	780629	313780
8100068	F100	TR6567	0082	312W	3199	1978/06/20	780620	313781
8100068							781012	313782
8100068 8100068						1978/10/18		313783
8100068						1978/10/13 1978/10/19		313784 313785
8100068						1978/10/19		313786
8100068						1978/10/17		313787
8100068						1979/01/18	790118	313788
8100068						1979/01/26	790116	313789
8100068						1979/01/20	790120	313790
8100068						1979/01/27	790127	313791
8100068						1979/01/21	790127	313792
8100068						1979/01/25	790121	313793
8100068						1978/04/25	780425	313794
8100068						1978/02/06	780206	313795
8100068						1978/05/08		313796
2_30000					· —	==:=,:=,:0		

(48 rows affected)

P				

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8100068	E100	TR6532	3199	1	396	77/04/28	77/04/28
8100068	F100		3199	1	99	77/04/07	77/04/07
8100068	F100		3199	ī	478	77/04/30	77/04/30
8100068	F100		3199	ī	548	77/04/08	77/04/08
8100068	F100	TR6536	3199	ī	191	77/04/19	77/04/19
8100068	F100	TR6537	3199	1	83	77/04/06	77/04/06
8100068	F100	TR6538	3199	<u>1</u>	831	77/08/22	77/08/22
8100068	F100	TR6539	3199	ī	180	77/07/01	77/07/01
8100068	F100	TR6540	3199	ī .	882	77/08/26	77/08/26
8100068	F100	TR6541	3199	1	1933	77/06/30	77/06/30
8100068	F100	TR6542	3199	ī	463	77/08/10	77/08/10
8100068	F100	TR6543	3199	ī	102	77/07/02	77/07/02
8100068	F100	TR6544	3199	1	586	77/11/18	77/11/18
8100068	F100	TR6545	3199	ī	133	77/10/17	77/10/17
8100068	F100	TR6546	3199	ī	535	77/11/08	77/11/08
8100068	F100	TR6547	3199	ī	939	77/10/18	77/10/18
8100068	F100	TR6548	3199	_ 1	313	77/11/03	77/11/03
8100068	F100	TR6549	3199	1	116	77/10/15	77/10/15
8100068	F100	TR6550	3199	1	811	78/02/13	78/02/13
8100068	F100	TR6551	3199	1	158	78/01/07	78/01/07
8100068	F100	TR6553	3199	1	1377	78/01/08	78/01/08
8100068	F100	TR6554	3199	1	428	78/01/24	78/01/24
8100068	F100	TR6555	3199	1	72	78/01/06	78/01/06
8100068	F100	TR6557	3199	1	118	78/04/26	78/04/26
8100068	F100	TR6558	3199	1	743	78/05/16	78/05/16
8100068	F100	TR6559	3199	1	828	78/04/27	78/04/27
8100068	F100	TR6560	3199	1	259	78/04/18	78/04/18
8100068	F100	TR6562	3199	1	1434	78/06/30	78/06/30
8100068	F100	TR6563	3199	1	288	78/06/21	78/06/21
8100068	F100	TR6564	3199	1	1623	78/07/01	78/07/01
8100068	F100	TR6565	3199	1	3269	78/06/22	78/06/22
8100068	F100	TR6566	3199	1	443	78/06/29	78/06/29
8100068		TR6567	3199	1	132	78/06/20	78/06/20
8100068		TR6568	3199	1	767	78/10/12	78/10/12
8100068					123	78/10/18	78/10/18
8100068					935	78/10/13	78/10/13
8100068				1	708	78/10/19	78/10/19
8100068			3199	1	325	78/10/14	78/10/14
8100068		TR6573	3199	1	108	78/10/17	78/10/17
8100068		TR6574	3199	1	783	79/01/18	79/01/18
8100068		TR6575	3199	1	91	79/01/26	79/01/26
8100068		TR6576	3199	1	1331	79/01/22	79/01/22
8100068		TR6577		1	1721	79/01/27	79/01/27
8100068		TR6578	3199	1	359	79/01/21	79/01/21
8100068		TR6579	3199	1	99 70	79/01/25	79/01/25
8100068		TR6561		1	79 601	78/04/25	78/04/25
8100068		TR6552	3199		691 679	78/02/06	78/02/06
8100068	LIOO	TR6556	3199	+	0/7	78/05/08	78/05/08

(48 rows affected)