

DDFA: 4: ~~32~~
23

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 80-00587

- 1) File Type: 124
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR 6433 - 6438

I. Error Corrections as reported to Principal Investigator:

ErrorCorrection Completed (Check)

II. Additional error corrections:

ErrorCorrection Completed (Check)

1. Duplicate Station Numbers (53).
Stations re-numbered. See attached list

a.

III. Processor Name:

Mary R Lewis

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 80-00587

- 1) File Type: 124
- 2) Project Ident.: GCSEAP
- 3) Track Nos.: TR 6433 - 6438

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

1. Duplicate Station Numbers (53).
Stations re-numbered. See attached list

III. Processor Name:

Mary R Lewis

Duplicate Station Numbers

TRACK	OLD NO.	NEW NO.	TRACK	OLD NO.	NEW NO.
TR6433	4	A4	TR6434	11	A11
	4	B4		11	B11
	5	A5		11	C11
	5	B5		11	D11
	51	A51		11	E11
	51	B51		12	A12
	55	A55		12	B12
TR6434	4	A4		12	C12
	4	B4		12	D12
	4	C4		12	E12
	5	A5	TR6434	12	F12
	5	B5	TR6437	1	A1
	5	C5		2	A2
	6	A6		3	A3
	6	B6		4	A4
	6	C6		5	A5
	7	A7		6	A6
	7	B7		7	A7
	7	C7		7	B7
	9	A9		7	C7
	9	B9		9	A9
	9	C9		9	B9
	9	DD D1	TR6438	1	A1
	10	A10		2	A2
	10	B10		3	A3
	10	C10		5	A5
6434	10	D10			

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

ACCESSION/TRACK NO.: 80 0587 TR6433-6438

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	DISKETTE CRSE13	NL	80	4800	FB		
DUPLICATE	015497	SL	80	4800	FB		
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	D15773* F124 .TR6433						
EDITED DISK FILE							



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235
National Oceanographic Data Center

April 26, 1982

D723/JRR

TO: OA/D782 - Chris Noe

FROM: OA/D723 - Rick Rinn

SUBJECT: Computed Concentrations in File Type 124 Data

In the fall of 1979 an OCSEAP request was received asking for a NODC product utilizing submitted file type 124 data. Upon examination of the submitted data, it was discovered that the following NODC track numbers were missing the zooplankton concentration values:

TR0450	TR0558
TR0499	TR0561
TR0503	TR1335
TR0532	

Through correspondence with the submitter, it was determined that the missing concentrations could be computed provided the other required parameters were present. To compute concentration in record "E", "number in subsample" (record E, cols. 38-42) was first divided by "size of subsample" (record E, cols. 34-37), then this value was divided by "volume of water filtered" (record D, cols. 26-31). For computed concentrations less than .0001, a value of .0001 was used. Text records (record G) were added at the end of each station which had concentrations computed within it.





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DATA SET ROUTE SHEET

ACCESSION/TRACK # 80 0587 TR6433-6438

<u>Step</u>	<u>Completion Date/Init.</u>		<u>Tape # or DSN</u>	<u># of Files</u>	<u>BLKSIZE</u>	<u>LRECL</u>	<u># RECORDS</u>
ORIGINATOR TAPE #	12/3/80	DAI	OCSE13	1	4800	80	
QUADI/SCAN TAPE #	12/10/80	DAI	015497	1	4800	80	
DDF EVALUATION	3/81	DAI					
QUALITY REVIEW	3/12/81	MRL					
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	3/9/81	MRL	*				
FIRST USER TAPE #							
WORK DISK FILE			*				
FINAL USER TAPE #	3/16/81	MRL					
FINAL MULCHEK	3/16/81	MRL	*				
EDITED DISK FILE							
DATA SET "FINALIZED"							

* DIS 773 * F124. TR6433

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

ACCESSION/TRACK NO.: *80..0587 TR6433-6438*

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	<i>DISKETTE</i> <i>OCSE13</i>	<i>NL</i>	<i>80</i>	<i>4800</i>	<i>FB</i>		
DUPLICATE	<i>015497</i>	<i>SL</i>	<i>80</i>	<i>4800</i>	<i>FB</i>		
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	<i>D15773* F124.TR6433</i>						
EDITED DISK FILE							

>@ADD,L D15773*773.TPDISK0

@PRT,S D15773*773.TPDISK0 . THE NAME OF THIS NEW RUNSTREAM
FURPUR 27R3A E33 SL74R1 03/06/81 11:49:57

F124

D15773*773(1).TPDISK0

```
1      @PRT,S D15773*773.TPDISK0 . THE NAME OF THIS NEW RUNSTRE
AM
2      @MSG,C PLEASE MOUNT TAPE 015497
3      @MSG,T QUADI14*TAPE.,U9V,015497
4      @USE FLIN,QUADI14*TAPE.
5      @XQT DMUTL*WORK.WHATLENGTH
6      @REWIND QUADI14*TAPE.
7      @DFP,E QUADI14*TAPE.,TPF$.FLIN
8      FILE=SDF/CON
9      RECORD=33
10     BLOCK=224
11     @DFP,E D15773*F124.TR6433,TPF$.FLOUT
12     FILE=SDF/PAR
13     RECORD=33
14     BLOCK=224
15     @XQT DMUTL*WORK.MOVIT
16     @FREE QUADI14*TAPE.
```

@MSG,C PLEASE MOUNT TAPE 015497

@MSG,T QUADI14*TAPE.,U9V,015497
READY

@USE FLIN,QUADI14*TAPE.
READY

@XQT DMUTL*WORK.WHATLENGTH

WHATLENGTH *** A PROGRAM TO SCAN AN SDF DISK FILE
DETERMINING SIZE IN RECORDS AND LENGTH
IN CHARACTERS

MAX. INPUT RECORD LENGTH IN THIS VERSION = 14000 BYTES

✓ 2987 RECORDS FOUND
MINIMUM INPUT RECORD LENGTH WAS 80
MAXIMUM INPUT RECORD LENGTH WAS 80
YOU HAVE ENCOUNTERED A FIXED LENGTH FILE!

END OF REPORT...BYE!

@REWIND QUADI14*TAPE.
FURPUR 27R3A E33 SL74R1 03/06/81 11:51:12

@DFP,E QUADI14♦TAPE.,TPF\$.FLIN
DFP 1R1 .03/06/81 11:51:18
END DFP

@DFP,E D15773♦F124.TR6433,TPF\$.FLDOUT
DFP 1R1 03/06/81 11:51:21
END DFP

@XOT DMUTL♦WORK.MOVIT

THIS VERSION OF MOVIT CAN HANDLE RECORDS UP TO 14000 BYTES.

RECORD LENGTHS MIN= 80 MAX= 80 IN BYTES.

DONE, 2987 RECORDS WRITTEN.

@FREE QUADI14♦TAPE.
READY

>@PRT,T D15773♦F124.
FURPUR 27R3A E33 SL74R1 03/06/81 11:52:28

D15773♦F124(1)
SYM TR6433(0)

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-K20;
EXPIRES 1-31

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

[illegible]

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Rita A. Horner 4211 NE 88th St. Seattle Wa 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Web sec 72		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT WEBSEC - 72 FT 124 FILE 10 720800	
4. PLATFORM NAME(S) USCG Glacier	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR US Coast Guard	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 4 AUG 72 5 Sept. 72
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER AND ADDRESS IF OTHER THAN IN ITEM-1) Rita A Horner 206 543 8599	

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D Volume of water filtered	whole cubic meters	N/A	N/A	(net length) x (mouth area of .75 m ring net) Mouth area = $\pi r^2 = 3.14 \times (\frac{.75}{2})^2 = .44 \text{ m}^2$
Duration of tow	seconds	Stopwatch	N/A	N/A
Record Type E Size of subsample	Percent to tenths	Samples split in Folsom plankton splitter	N/A	$\frac{1}{2} (\text{number of splits}) \times 100$
Concentration	number per m^3 to ten thousands	Isaacs Kidd midwater trawl 38mm mesh $\frac{1}{2}$ m ring net and 1 m ring net both fished horizontally, mesh size 570 um	Samples were sorted for all animals. the most abundant taxon were sorted from subsamples containing not less than 100 animals	$\frac{(\# \text{ animals counted})}{(\text{vol. water filtered})} \times \frac{2}{2} (\# \text{ split})$

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

FILE TYPE 124

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

Five
Five Record Types: File Header Record (A); Location Record (B); ~~Environmental Record (C)~~; Total Haul Data Record (D); Subsample Data Record (E); ~~Subsample Data 2 Record (F)~~; Text Record (G); ~~Plankton Data Record (H)~~; and ~~Leptophantrion Record (I)~~; differentiate by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File sorted by Station Number, and Sequence Number to obtain proper sequence.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

Rita A Horner 206 543 8596
4211 NE 98th St Seattle WA 98115

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES 13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME File Header Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECNR NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'B'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD NAME Environmental Record (Zooplankton)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always '6'
Station Number	11	5	Bytes	A5	
Depth of Sample	16	4	Bytes	I4	Meters to tenths
Temperature at Sample Depth	20	4	Bytes	I4	Degrees Celsius to hundredths
Salinity at Sample Depth	24	4	Bytes	I4	Parts/thousand to hundredths
Blank	28	50	Bytes	50x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Seined Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HHMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Size of Sub-sample	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record 2 (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'F'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Subspecies if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Dry Weight	34	7	Bytes	I7	Grams to thousandths
Wet Weight	41	7	Bytes	I7	Grams to thousandths
Blank	48	30	Bytes	30x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Plankton Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always "H"
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Sample Size	20	4	Bytes	I4	Percent to tenths
Estimated Density of Holoplankton	24	11	Bytes	I11	Per cubic meters to tenths
Estimated Density of Meroplankton	35	11	Bytes	I11	Per cubic meters to tenths
Proportion of Meroplankton to the Total Haul	46	6	Bytes	T6	Percent to ten thousandths
Blank	52	24	Bytes	24x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Ichthyoplankton (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., b11a, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'I'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species
Number Caught	32	5	Bytes	I5	Whole number
Minimum Size	37	4	Bytes	I4	Millimeters to tenths
Maximum Size	41	4	Bytes	I4	Millimeters to tenths
Mean Size	45	4	Bytes	I4	Millimeters to tenths
Number of Eggs of this species	49	6	Bytes	I6	Whole number
Blank	55	21	Bytes	21x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

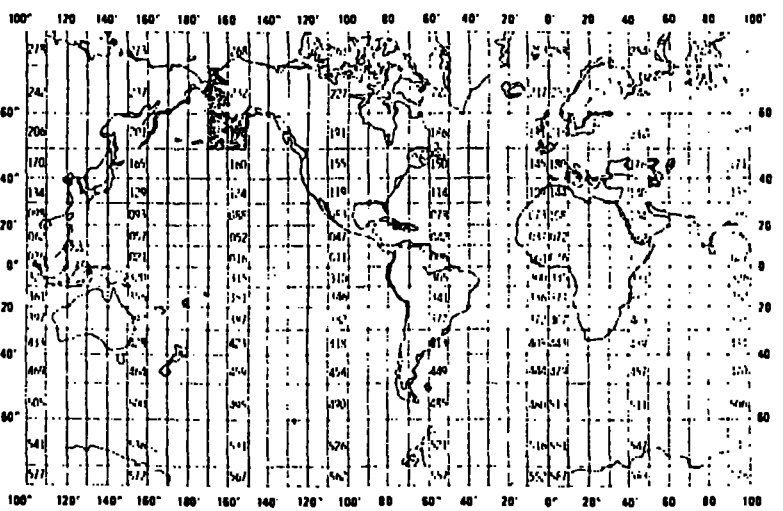
FORM APPROVED
O.M.B. No. 41-R0001
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>Rita A. Horner 4211 NE 89th St. Seattle WA. 98115</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Polar Sea / OCSEAP</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>Polar Sea FT 124 File ID 790405</i>	
4. PLATFORM NAME(S) <i>EGC Polar Sea</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>US Coast Guard</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>04/17/79 05/07/79</i>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSEEN SQUARES IN WHICH DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Rita A Horner (206) 543-8599</i>			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D Haul Length	* whole meters † whole meters	* # of revolution read from TSK flow meter † meter wheel on winch	* Calibration curve used from TSK to get $F = \left(\frac{\text{meters}}{\text{revolution}} \right)$ † N/A	Haul length = $(F) \times (\# \text{ revolutions})$ = meters Haul length = depth of haul = meters
Volume of water filtered	whole cubic meters	refer above	refer above	* $(\text{Haul length}) \times (\text{Mouth Area of } 60\text{cm Bongo frame}) = \text{m}^3$ Mouth area = $\pi r^2 = 3.14 \left(\frac{60}{2} \right)^2 = 2800$ † $(\text{Haul length}) \times (\text{Mouth Area of } 0.75 \text{ m. ring net})$ Mouth area = $\pi r^2 = (3.14) \times \left(\frac{0.75}{2} \right)^2 = 0.44 \text{ m}^2$
Mesh Size	reported in old sizes 505um = 500um 333um = 335um	N/A	N/A	N/A
Duration of Tow	seconds	stopwatch	N/A	N/A
Record Type E Size of subsample	Percent to tenths	Samples split in Folsom Splitter	N/A	$\frac{1}{2}(\text{number of splits}) \times 100 (\text{approx.})$
Concentration	Number per m ³ to	* Double oblique tow sent out 50m/min. to within 10 meters of bottom and retrieved at 20m/min. One side of the net 500um mesh, other net 335um mesh. † 308um mesh 0.75 ring net was towed at 50m/min. to just above the bottom and was hauled vertically by winch at a speed 20m/min. to the surface.	* † Samples were sorted for larger less abundant organisms then split until a subsample containing about 100 specimens of the remaining most abundant taxon was obtained. All specimens were identified and counted using a dissecting microscope. Copepods were separated and counted as adults and juveniles without determining genus or species.	$\frac{\# \text{ animals counted}}{\text{vol. water filtered}} \times 2 (\# \text{ splits})$
Record Type I Maximum Size and Minimum Size.	millimeters to tenths	Fish larvae and eggs measured with micrometer on dissecting scope. Eggs were held in grooved tray. (If greater than 10mm. they were measured with metric ruler to a whole number.)	Larvae were flattened with forceps and standard length was measured for the longest and the shortest. Diameter of eggs was was measured.	N/A
Mean Size Fish larvae Fish eggs	millimeters to tenths	N/A	Was only calculated for two or less fish. N/A	$\frac{(\text{maximum size}) \times (\text{minimum size})}{2}$ $\frac{(\# \text{ eggs of diameter a}) \times (\# \text{ eggs of diameter b}) \times (\# \text{ eggs of diameter c}) \times \text{etc.}}{\text{total \# of eggs}}$
* 60um. Bongo Tow † 0.75 m. Ring Net				

RECORD FORMAT DESCRIPTION

12-12-78

RECORD NAME File Header Record (Zooplankton)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'B'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Tenths of minutes
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	Tenths of minutes
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD NAME ~~Environmental Record (Zooplankton)~~

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Settled Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HHMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Size of Sub-sample	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths thousands ten thousands
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME Ichthyoplankton (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'I'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species
Number Caught	32	5	Bytes	I5	Whole number
Minimum Size	37	4	Bytes	I4	Millimeters to tenths
Maximum Size	41	4	Bytes	I4	Millimeters to tenths
Mean Size	45	4	Bytes	I4	Millimeters to tenths
Number of Eggs of this species	49	6	Bytes	I6	Whole number
Blank	55	21	Bytes	21x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
TSK Flowmeter	Jan. 12, 1976		T.S.K. Company					✓	

DATA DOCUMENTATION FORM

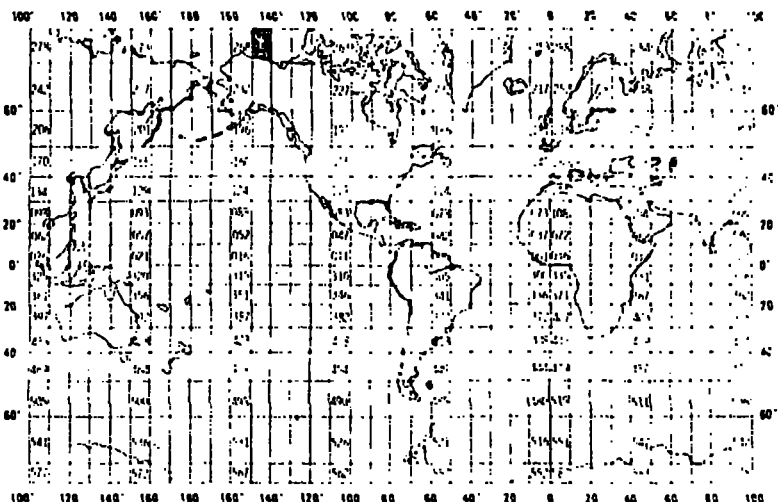
NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required auxiliary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>Rita A. Horner 1211 N.E. 88th St. Seattle, WA 98115</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Boulder Patch / OCSEAP</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>Boulder Patch May FT 124 File ID 790500</i>	
4. PLATFORM NAME(S) <i>None</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ice</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. OCSEAP</i>	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR <i>05/17/79 05/17/79</i>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Rita A. Horner (206) 543-8599</i>			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D Volume of water filtered	whole cubic meters	N/A	N/A	(Haul length) x (mouth area of 0.75m ring net) mouth area = $\pi r^2 = (3.14) \times$ $(\frac{.75}{2})^2 = 0.44 m^2$
Duration of tow	seconds	Stop Watch	N/A	N/A
Record type E size of subsample	Percent to tenths	Samples divided by use of calibrated automatic pipette		$\frac{\text{Subsample}}{100} \times 100 = \text{Animals}$
Concentration	number per m ³ to 10,000s	A 0.75m ring net with mesh size 216 μm was lowered to the bottom and hauled vertically to the surface by hand.	Samples, which had previously been sorted for larger planktonic organisms, were subsampled with a calibrated automatic pipette to obtain a subsample containing about 100 specimens of the most abundant copepod species. Copepods were identified, counted, and recorded by sex and copepodid stage.	$\frac{\# \text{Animals} (\frac{no}{\text{subsample}})}{(\text{vol. water filtered})} = \frac{\# \text{animals}}{\text{sample}}$

RECORD FORMAT DESCRIPTION.

RECORD NAME File Header Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0.4 = bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'B'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD NAME Environmental Record (Zooplankton)

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Settled Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HEMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code 10	33	1	Bytes	A1	
Size of Sub-sample 20	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record 2 (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'F'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Dry Weight	34	7	Bytes	I7	Grams to thousandths
Wet Weight	41	7	Bytes	I7	Grams to thousandths
Blank	48	30	Bytes	30x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'H'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Sample Size	20	4	Bytes	I4	Percent to tenths
Estimated Density of Holoplankton	24	11	Bytes	I11	Per cubic meters to tenths
Estimated Density of Meroplankton	35	11	Bytes	I11	Per cubic meters to tenths
Proportion of Meroplankton to the Total Haul	46	6	Bytes	I6	Percent to ten thousandths
Blank	52	24	Bytes	24x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

NOAA FORM 24-13

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

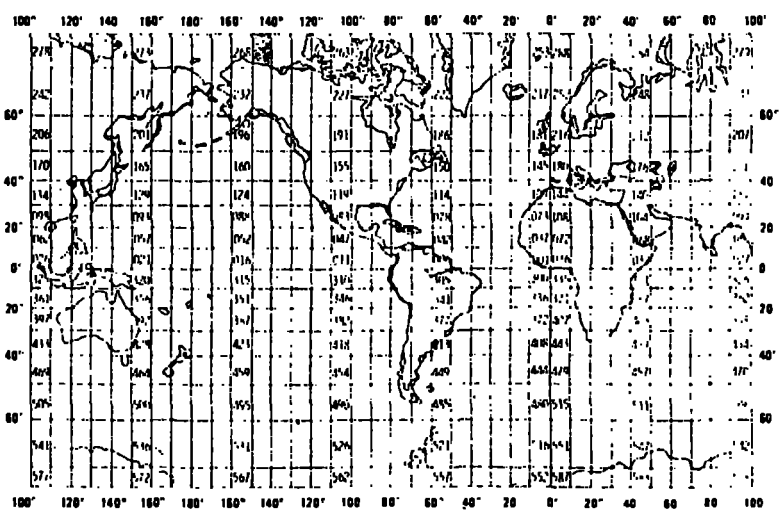
FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Rita A. Horner 1211 N.E. 88th St. Seattle, Wash. 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Boulder Patch / CC SEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT Boulder Patch Nov FT 124 File ID 781100	
4. PLATFORM NAME(S) None	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ice	6. PLATFORM AND OPERATOR NATIONALITY(IES) US CCSEAP	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 11/18/73 11/16/73
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSCEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Rita A. Horner (206) 543-8599			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D Volume of water filtered	whole cubic meters	N/A	N/A	$\text{(haul length)} \times \text{(mouth area of 0.75 m ring net)}$ $\text{mouth area} = \pi r^2 = (3.14) \times \left(\frac{0.75}{2}\right)^2 = 0.44 \text{ m}^2$
Duration of tow	seconds	Stopwatch	N/A	N/A
Record Type E size of subsample	Percent to tenths	samples split by use of calibrated automatic pipette		$\frac{\text{Subsample}}{100} \times 100 = \text{Animals}$
Concentration	number per m^3 to 10,000 10,000's	A 0.75 m ring net with mesh size 300 ³⁰⁰ μm was lowered to the bottom and hauled vertically to the surface by hand	Samples were sorted for mysids, amphipods, shrimp, euphausiids, and fish eggs and larvae for identification. A calibrated, automatic pipette was used to obtain a subsample containing about 100 specimens of the most abundant copepod species. Copepods were identified, counted, and recorded by sex and copepodid stage.	$\# \text{ Animals } \left(\frac{100}{\text{Subsamp}} \right) = \frac{\# \text{ animals}}{\text{sample}}$ $\left(\frac{\text{Vol. Water filtered}}{\text{sample}} \right)$

RECORD FORMAT DESCRIPTION

RECORD NAME File Header Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'B'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD NAME Environmental Record (Zooplankton)

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Settled Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HHMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Size of Sub-sample	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record 2 (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'F'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Dry Weight	34	7	Bytes	I7	Grams to thousandths
Wet Weight	41	7	Bytes	I7	Grams to thousandths
Blank	48	30	Bytes	30x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Plankton Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., b1/a, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'H'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Sample Size	20	4	Bytes	I4	Percent to tenths
Estimated Density of Holoplankton	24	11	Bytes	I11	Per cubic meters to tenths
Estimated Density of Meroplankton	35	11	Bytes	I11	Per cubic meters to tenths
Proportion of Meroplankton to the Total Haul	46	6	Bytes	I6	Percent to ten thousandths
Blank	52	24	Bytes	24x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always '1'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species
Number Caught	32	5	Bytes	I5	Whole number
Minimum Size	37	4	Bytes	I4	Millimeters to tenths
Maximum Size	41	4	Bytes	I4	Millimeters to tenths
Mean Size	45	4	Bytes	I4	Millimeters to tenths
Number of Eggs of this species	49	6	Bytes	I6	Whole number
Blank	55	21	Bytes	21x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

DATA DOCUMENTATION FORM

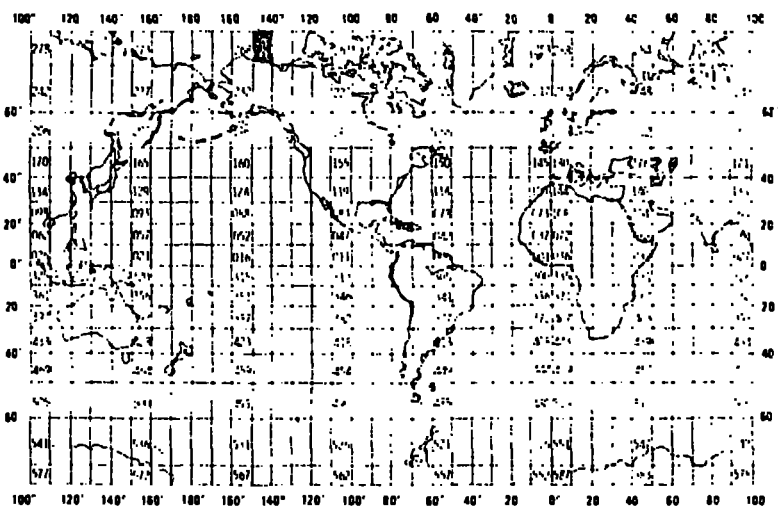
NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>Rita A Horner 4211 N.E. 88th St Seattle, WA 98115</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Boulder Patch / OCSEAP</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>Boulder Patch Mar FT 124 File ID 790300 790300</i>	
4. PLATFORM NAME(S) <i>None</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ice</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR <i>US OCSEAP</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>03/12/79 03/16/79</i>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONPI)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN ITEM-1) <i>Rita A. Horner (206) 543-8599</i>			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D Volume of water filtered	whole cubic meters	N/A	N/A	(Haul length) x (mouth area of 0.15m king net) mouth area = $\pi r^2 = (3.14) \times$ $\left(\frac{.15}{2}\right)^2 = 0.44 \text{ m}^2$
Duration of tow	seconds	Stop watch	N/A	N/A
Record type E size of subsample	Percent to tenths	Samples divided by use of calibrated automatic pipette		$\frac{\text{Subsample}}{100} \times 100 = \text{Animals}$
Concentration	Number per m ³ to 10,000 S	A 0.15 m king net with mesh size 216 μm was lowered to the bottom and hauled vertically to the surface by hand	Samples, which had previously been sorted for larger planktonic organisms, were subsampled with a calibrated automatic pipette to obtain a subsample containing about 100 specimens of the most abundant copepod species. Copepods were identified, counted, and recorded by sex and copepodid stage.	$\frac{\# \text{ animals } \left(\frac{100}{\text{subsample}} \right)}{\text{vol water filtered}} = \frac{\# \text{ animals}}{\text{in sample}}$

RECORD FORMAT DESCRIPTION.

RECORD NAME File Header Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	Always 'B'
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	
Longitude, Degrees	23	3	Bytes	I3	'N' or 'S'
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Date in GMT, Year	31	2	Bytes	I2	'E' or 'W'
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT, Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	To whole meters
Depth to Bottom	41	5	Bytes	I5	
Sample Interval, Upper	46	4	Bytes	I4	
Lower	50	4	Bytes	I4	
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	Ascending numeric to order records
Sequence Number	78	3	Bytes	I3	

RECORD NAME Environmental Record (Zooplankton)

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Settled Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HHMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code 10	33	1	Bytes	A1	
Size of Sub-sample 22	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record 2 (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'F'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Dry Weight	34	7	Bytes	I7	Grams to thousandths
Wet Weight	41	7	Bytes	I7	Grams to thousandths
Blank	48	30	Bytes	30x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Plankton Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'H'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Sample Size	20	4	Bytes	I4	Percent to tenths
Estimated Density of Holoplankton	24	11	Bytes	I11	Per cubic meters to tenths
Estimated Density of Meroplankton	35	11	Bytes	I11	Per cubic meters to tenths
Proportion of Meroplankton to the Total Haul	46	6	Bytes	I6	Percent to ten thousandths
Blank	52	24	Bytes	24x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Ichthyoplankton (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'I'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species
Number Caught	32	5	Bytes	I5	Whole number
Minimum Size	37	4	Bytes	I4	Millimeters to tenths
Maximum Size	41	4	Bytes	I4	Millimeters to tenths
Mean Size	45	4	Bytes	I4	Millimeters to tenths
Number of Eggs of this species	49	6	Bytes	I6	Whole number
Blank	55	21	Bytes	21x	
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Jim Audet

REFER TO D781x5-80-222

ATTENTION
Jim Audet

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☐ ORDINARY
MAIL☐ REGISTERED
MAIL☐ AIR
MAIL☒ CERTIFIED
MAIL☐ GOVERNMENT
TRUCK☐ BY HAND☐ OTHER

The enclosed materials relate to the following File Type 124 data sets submitted by Rita Horner RU359:

720800

080076

790405

790500

The following check run printouts are included:

ID124 - Checks for data base requirements and specific ranges.
No significant errors remain.

BL124 - Embedded blank check. No errors detected.

EX124 - Executive summary.

RA124 - Parametric range check.

CD124 - Digital Code check. No code errors were found.

MXMN124 - Displays the minimum, maximum, distribution, and number of entries for each parametric field.

TC124 - Tax code check. No taxonomic errors were detected.

TFILE124 - Listing of the file with taxonomic names appended to records containing tax codes.

Two diskettes are also enclosed. The first label of each disk (RU359) pertains to all data on the disk. Each subsequent label pertains only to the data set named on the label.

A copy of the DDF's is also enclosed.

Please let us know if you have any questions regarding the enclosed materials.

Thanks

FORWARDED BY (Signature)

Mike Crane

RECEIVED BY (Signature)

TITLE

Alaska Liaison Officer

TITLE

DATE FORWARDED

9-22-80

DATE RECEIVED

SEP 30 REC'D

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Jim Audet

REFER TO

D781x5-80-223

ATTENTION

Jim Audet

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☐ ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☒ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

The enclosed materials relate to the following File Type 124 data sets
resubmitted by Rita Horner RU359 to be merged with the previous submissions:

781100

790300

The following check run printouts are included:

ID124 - Checks for data base requirements and specific ranges.
No significant errors remain.

BL124 - Embedded blank check. No errors detected.

EX124 - Executive summary.

RA124 - Parametric range check.

CD124 - Digital Code check. No code errors were found.

MXMN124 - Displays the minimum, maximum, distribution, and number of
entries for each parametric field.

TC124 - Tax code check. No taxonomic errors were detected.

TFILE124 - Listing of the file with taxonomic names appended to records
containing tax codes.

One diskette is also enclosed. The first label of the disk (RU359) pertains
to all data on the disk. Each subsequent label pertains only to the data
set named on the label.

A copy of the DDF's is also enclosed.

Please let us know if you have any questions regarding the enclosed materials.

Thanks

FORWARDED BY (Signature)

Mike Crane



TITLE

Alaska Liaison Officer

DATE FORWARDED

9-22-80

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

SEP 30 1980

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Concentration ring net	Number per m^3 to ten thousandths	308 μm mesh, 0.75 m ring net. Tows vertical with net lowered to some predetermined depth and retrieved at 20 m/min. Ship was stationary while net was towed. Samples were concentrated in net cups and put in jars and preserved with 40% formaldehyde buffered with saturated sodium borate and sodium acetate solutions.	Samples were sorted for amphipods, shrimps, mysids, euphausiids, fish eggs and larvae. Sample was split in a Folsom plankton splitter until about 100 specimens of the most abundant remaining taxon was obtained. Sub-sample plus all amphipods, mysids, shrimps, euphausiids, fish eggs and larvae were identified and counted using a dissecting microscope. Copepods in the subsample were separated and counted as adults and juveniles without determining genus or species.	$(\# \text{ animals counted})$ $\times (\text{volume of water filtered})^{-1}$ $\times 2 (\# \text{ splits})$

ZOOPLANKTON

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

FILE TYPE 124

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

^{Six}
Nine Record Types: File Header Record (A); Location Record (B); ~~Environmental~~
~~Record (C)~~; Total Haul Data Record (D); Subsample Data Record (E);
~~Subsample Data 2 Record (F)~~; Text Record (G); ~~Plankton Data Record (H)~~; and
Ichthyophankton Record (I); differentiate by byte 10.

- ## 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File sorted by Station Number, and Sequence Number to obtain proper sequence.

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

- 4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER Rita A. Horner (206) 543-8599
ADDRESS 4211 N.E. 88th St. Seattle WA. 98115

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
8. DENSITY <input type="checkbox"/> 200 SPI <input type="checkbox"/> 1600 SPI <input type="checkbox"/> 556 SPI <input type="checkbox"/> 800 SPI <input type="checkbox"/> _____	
	12. PHYSICAL BLOCK LENGTH IN BYTES
	13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME File Header Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'A'
Vessel	11	11	Bytes	A11	
Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left Justified
Investigator/ Institution	64	14	Bytes	A14	Left Justified
Blank	78	3	Bytes	3x	

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'B'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Ship Speed	54	3	Bytes	I3	Knots to tenths
Blank	57	21	Bytes	21x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD NAME ~~Environmental Record (Zooplankton)~~

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Total Haul Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., b10, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'D'
Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(Use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Haul Length	22	4	Bytes	I4	Whole meters
Volume of Water Filtered	26	6	Bytes	I6	Whole cubic meters
Total Settled Volume	32	4	Bytes	I4	Whole milliliters
Total Water Displaced	36	4	Bytes	I4	Whole milliliters
Total Dry Weight of Haul	40	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	47	7	Bytes	I7	Grams to hundredths
Duration of Tow	54	6	Bytes	3I2	Hours, minutes, and seconds (HHMMSS)
Haul Type Code	60	1	Bytes	A1	Use File 124 Haul Type Code
Blank	61	17	Bytes	17x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'E'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species if possible
Life History Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Size of Sub-sample	34	4	Bytes	I4	Percent to tenths
Number in Sub-sample	38	5	Bytes	I5	Whole number
Concentration	43	9	Bytes	I9	Number per cubic meters to thousandths <i>ten thousandths</i>
Number of Adults	52	5	Bytes	I5	Whole number
Number of Juveniles	57	5	Bytes	I5	Whole number
Number of Eggs	62	5	Bytes	I5	Whole number
Number of Larvae	67	5	Bytes	I5	Whole number
Blank	72	6	Bytes	6x	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

[illegible]

RECORD FORMAT DESCRIPTION

RECORD NAME Text Record (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always 'G'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence Number	78	3	Bytes	I3	Ascending numeric to order records

12-12-78

12-12-78

RECORD FORMAT DESCRIPTION

RECORD NAME Ichthyoplankton (Zooplankton)

12-12-78

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '124'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
NODC Taxonomic Code	20	12	Bytes	6A2	To Sub-species
Number Caught	32	5	Bytes	I5	Whole number
Minimum Size	37	4	Bytes	I4	Millimeters to tenths
Maximum Size	41	4	Bytes	I4	Millimeters to tenths
Mean Size	45	4	Bytes	I4	Millimeters to tenths
Number of Eggs of this species	49	6	Bytes	I6	Whole number
Blank	55	21	Bytes	21x	COL 76 Life History Code - OHG COL 77 Blank Ascending numeric to order records
Text	76	2	Bytes	A2	
Sequence Number	78	3	Bytes	I3	

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
TSK flowmeters	30 MAY 1966		Tsurumi-Seiki Kosokusho Co., Ltd.					X	

DATA DOCUMENTATION FORM

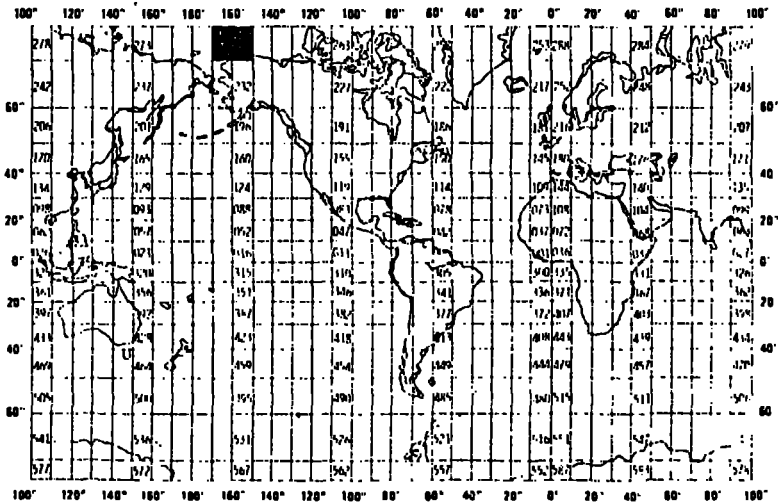
NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>Rita A. Horner 4211 N.E. 83th St. Seattle, WA. 98115</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Glacier/OCSEAP</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>Glacier 76 FT 124 File 10 080076</i>	
4. PLATFORM NAME(S) <i>CGC Glacier</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>ship</i>	6. PLATFORM AND OPERATOR 7. DATES NATIONALITY(IES) PLATFORM OPERATOR FROM: MO/DAY/YR TO: MO/DAY/YR <i>Ship US Coast Guard 08/07/76 09/04/76</i>	
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Rita A. Horner (206) 543-8599</i>			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record Type D				
Haul length bongo net	whole meters	TSK flowmeter	N/A	<p>volume of tow mouth area of bongo net</p> $\text{mouth area} = \pi r^2$ $= (3.14) \times \left(\frac{0.60}{2}\right)^2$ $= 0.2827 \text{ m}^2$
Haul length ring net	whole meters	meter wheel	N/A	N/A
Volume of water filtered bongo net	whole m ³	TSK flowmeter	N/A	<p>(factor) x (revolutions) x (mouth area) (of bongo net)</p> <p>factor = m/rev from TSK calibration curve</p> <p>revolutions from TSK meter</p> <p>mouth area = 0.2827 m²</p>

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Volume of water filtered ring net	whole m ³	meter wheel	N/A	<p>(Haul length) x (mouth area of ring net)</p> <p>Haul length from meter wheel</p> <p>mouth area = πr^2 $= (3.14) \times \left(\frac{0.75}{2}\right)^2$ $= 0.44 \text{ m}^2$</p>
Duration of tow	minutes, seconds	Wristwatch second hand	N/A	N/A
Volume of water filtered (estimated) bongo net only	whole m ³	N/A	N/A	<p>(estimated ship speed) x (duration of tow) x (mouth area of bongo net)</p> <p>ship speed was requested to be about 3 kt.</p>
Record Type E				
Size of sub-sample	Percent to tenths	<p>Volume of samples with excessive phytoplankton measured in bucket. Portion of sample retained noted on sample label as a fraction, remainder discarded.</p> <p>Samples split further using a Folsom plankton splitter</p>	N/A	<p>$\left(\frac{1}{\text{Fraction}}\right) \times \frac{1}{2 (\# \text{ splits})} \times 100$</p> <p>Fraction = portion of sample retained</p>

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Concentration bongo net	Number per m^3 to ten thousandths	335 or 500 μm mesh, 0.6m bongo net; TSK flowmeter Model 313 mounted in mouth of net. Tows double oblique with net lowered at 40-50 m/min to about 10m from the bottom at shallow stations and to 200m at deep stations, soaked for 30 sec, and retrieved at 20 m/min. Requested ship speed was about 3 kt. Samples were con- centrated in net cups and subsampled if plankton volume exceeded one liter. Plankton volume was measured in a bucket. Portion of sample retained noted on sample label as a fraction, remainder discarded. Samples were put in jars and preserved with 40% formaldehyde buffered with saturated sodium borate and sodium acetate solutions.	Samples were sorted for amphipods, shrimps, mysids, euphausiids, fish eggs and larvae. sample was split in a Folsom plankton splitter until about 100 specimens of the most abundant remaining taxon was obtained. Subsample plus all amphipods, mysids, shrimps, euphausiids, fish eggs and larvae were identified and counted using a dissecting micro- scope. Copepods in the subsample were separated and counted as adults and juveniles without determining genus or species.	(# animals counted) $\times (\text{Volume of waterfiltered})^{-1}$ $\times 2$ (# splits) $\times (\text{Fraction})^{-1}$

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8000587	F124	TR6436	0081	3100	3199	1979/05/17	790500	313337
8000587	F124	TR6437	0081	3100	3199	1978/11/08	781100	313338
8000587	F124	TR6438	0081	3100	3199	1979/03/12	790300	313339
8000587	F124	TR6433	0081	3100	31GL	1972/08/04	720800	313334
8000587	F124	TR6434	0081	3100	31GL	1976/08/10	080076	313335
8000587	F124	TR6435	0081	3100	32L9	1979/04/19	790405	313336

(6 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
8000587	F124	TR6436	3199	1	57	79/05/17	79/05/17
8000587	F124	TR6437	3199	20	509	78/11/08	78/11/16
8000587	F124	TR6438	3199	9	276	79/03/12	79/03/16
8000587	F124	TR6433	31GL	19	341	72/08/04	72/09/05
8000587	F124	TR6434	31GL	39	1050	76/08/10	76/08/17
8000587	F124	TR6435	32L9	28	754	79/04/19	79/05/06

(6 rows affected)