

## DATA DOCUMENTATION FORM

5/24/76

DDF A:1:21

NOAA FORM 24-13  
(1-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

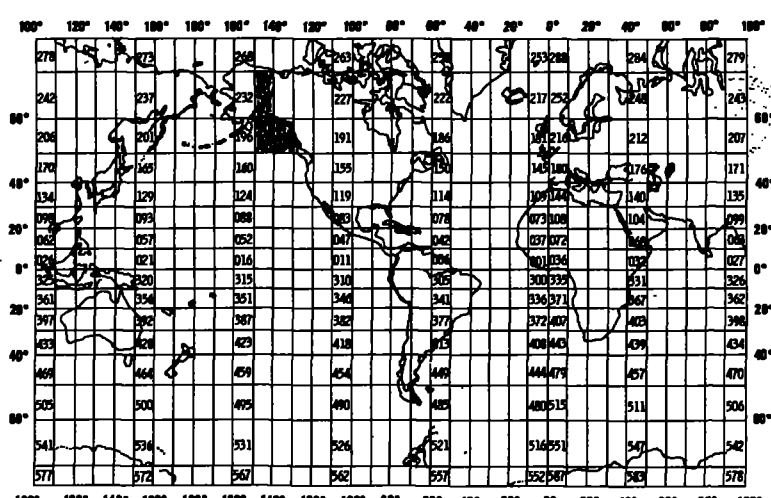
TR 0461

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.

(ORIGINATOR'S DDF)

## 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>Institute of Marine Science University of Alaska Fairbanks, Alaska 99701</i>					
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>NOAA/Blm. Outer Continental Shelf Environmental Assessment Program Feder, Benthic Biology</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>North Pacific 817 File 10 = 000817 OCSEAP</i>			
4. PLATFORM NAME(S) <i>North Pacific</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
		USA	USA	4/25/75	8/7/75
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>H. M. Feder R. S. Hadley</i>					

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING TWO PAGES FOR THIS INFORMATION)

# B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
<i>Benthic Organisms</i>	<i>Species list using Mueller Carbon Cools weight/gms.</i>	<i>see procedures enclosed</i>		<i>5/24/76</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

5/24/76

### C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

# C. DATA FORMAT

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

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

5/24/76

File Type '032'  
Record Types 1, 2, 3, 5

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Record type, A set of Record Type 1 including Text, sequenced  
one Record type 2 & 3 per station  
many Record type 5, per station.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

R. Hobson (907) 479-7074

U. Alaska

479-7086 (Hadley)

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOR PAC</p> <p>5/24/76</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>unblocked</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>87.6</p>

# RECORD FORMAT DESCRIPTION

5/24/76

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
As per accepted File Type '032' Benthic Organisms					2/20/76 amended, Record type #5 approved 5/6/76
Comment: Station 0814 Talon Code 680309611 <u>total count exceeded field.</u>					Count 125000 weight 75000.0
This station was entered thus					

long extra record gap

## RECORD FORMAT DESCRIPTION

**RECORD NAME**

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		



# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

## 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 (✓)	
None.									

*5/24/76*

## INVERTEBRATE IDENTIFICATION PROCEDURE

Laboratory procedures for verification of field identifications are as follows: Specimens are deformalized by draining off the 10% formaldehyde, rinsing in fresh water and adding aqueous ammonia (28%) to neutralize the formic acid. A minimum of two hours is normally needed to neutralize the odor so the organisms are bearable to work with.

Any corrections in identifications are made on the original field notes as well as the benthic trawl data forms. Larger organisms that were weighed in pounds in the field are converted to kilograms in the laboratory. Weights of smaller organisms (clams, polychaetes, etc.) that were estimated in the field are weighed in the laboratory to the nearest gram.

Completed trawl data forms are key punched and ready for analysis.

All representative material returned to the laboratory is archived, properly labeled for identification, in 10% formalin.

#### 400-MESH EASTERN OTTER TRAWL - SPECIFICATIONS

Headrope	71 feet plus thimble eyes, of 3/8" 6 x 19 galvanized wire rope wrapped (full wrap) with 3/8" polypropylene rope.
Footrope	94 feet plus thimble eyes of 1/2" 6 x 19 galvanized wire rope wrapped with 9/16" polypropylene rope.
Breast lines	6 feet of 1/4" galv. proof coil chain.
Riblines	6 each, of 1/2" nylon; one each center top and bottom from headrope and footrope through entire net including codend. Four, one from each junction of wing and body extending to approximately the intermediate.
Seams	Side seams shall consist of lacing 3 knots (2 meshes) from each panel with No. 36 nylon twine. Tie each full mesh.
Hanging	Headrope: Wings - 2 meshes to 6" Bosom - 4 meshes to 5-1/4"  Footrope: Wings - 4 bars to 7-9/16" Lower Bosom - 4 meshes to 7"
Footrope weight	112.5 feet of 1/4" galv. proof coil chain. 9 inches chain per 7-1/2" hanging.
Puckering rings	5/16" by 2-1/4" galv. steel (approx. 33 pieces), secured with No. 38 braided polypropylene.
Splitting rings	1/2" by 4" galv. steel (5 pieces)
Liner in intermediate and bag sections	1-1/4" mesh, No. 18 nylon; 280-340 meshes around, 200-240 meshes deep secured 15 meshes up from bottom of intermediate (leave about 2 feet of liner extending from end of bag).
Chafing gear	Standard commercial construction (approx. 4 inch mesh 1/4" polypropylene. 110 meshes around, 55 meshes deep, secured at junction of intermediate and codend.
Webbing	Nylon, preshrunk, dyed green, with full mesh selvage.
Floats	15, 8" <u>Deep Sea</u> floats, evenly spaced (5.5 lbs. buoyancy each)

than 0.5 lb were counted and their weights were calculated from count-weight ratios determined on previous samples of the same taxon.

The following information was recorded for each trawl: Station number, Tow number, Date, Sea conditions, Start - finish times, Start - finish position, Distance fished - minimum - maximum depth, Percent of trawl sampled.

## TRAWL SAMPLING

Trawl operations were conducted in a joint operation by the University of Alaska (Institute of Marine Science) and the Seattle Northwest Fisheries Center of National Marine Fisheries Service. Trawling was conducted with a standard 400 mesh Eastern otter trawl (specifications enclosed) for a duration of 1 hour (Gulf of Alaska) or 1/2 hour (Bering Sea) along pre-selected transects.

Depending on the size of the haul, either the total haul or split was sorted. Sub-sampling was accomplished, when necessary, with a cargo net which retained 1/2 the haul dumped into a 5,000 lb capacity checker. If sub-sampling was necessary, the weight of the unsampled portion was recorded prior to returning to sea.

The total haul or sub-sample was placed on the sorting table and sorted as follows: fishes were sorted first, in order of dominance. Once all vertebrates were removed, the invertebrate sort commenced. Invertebrates were sorted in order of dominance. Sorting was supervised by a person knowledgeable in invertebrate identification. Any doubt as to identification led to the preservation of specimens in 10% buffered formalin and later identification at the Marine Sorting Center, University of Alaska. In such cases the species was tentatively identified in the field to best taxon and coded, i.e. Pandalus A, Pandalus B, Sea Star A, Sea Star B, etc. The remainder of the haul was returned to the sea.

Following sorting, each specimen type was collectively weighed to the nearest 0.5 lb and counted. Specimen types collectively weighing less

5/24/76

NIPAC 817

PROCEDURES AND QUALITY CONTROL  
FOR  
THE DISTRIBUTION, ABUNDANCE, DIVERSITY, AND PRODUCTIVITY  
OF BENTHIC ORGANISMS IN THE GULF OF ALASKA

as used by

Howard M. Feder, Principal Investigator  
Contract Number 03-5-022-56  
Task Order 20, R. U. #281

Date: 5/24/76

Pages: 4



## B. SCIENTIFIC CONTENT

[illegible]

May 12, 1976

# Benthic Organisms

Header (Text)  
Station (Sample)  
Segment Detail  
Species

FILE TYPE	CRUISE NUMBER	RECORD TYPE	VESSEL NAME	TEXT										SAMPLE NUMBER	BLANK																	
(032)																																
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	START DEPTH (M)	START DATE (GMT)			START TIME (GMT)			START LATITUDE			START LONGITUDE			END DEPTH (M)	END DATE			END TIME (GMT)			END LATITUDE			END LONGITUDE			DISTANCE OFF-SHORE (KM)	TOW DIRECTION (DEG.)	BLANK
(032)					YR.	MO.	DY.	HR.	MIN.	SEC.	N OF S	DEG.	MIN.	SEC.	E OF W		YR.	MO.	DY.	HR.	MIN.	SEC.	N OF S	DEG.	MIN.	SEC.	E OF W					
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	SAMPLE SEGMENT (CM)		CORE PENETRATION DEPTH (MM)	AREA SAMPLED (M <sup>2</sup> TO THOUSANDTHS)	BOTTOM SALINITY (‰ TO THOUSANDTHS)	BOTTOM TEMPERATURE (°C TO HUNDREDTHS)	BOTTOM OXYGEN CONC. (ML/L TO TENTHS)	SEDIMENT CARBON		PERCENT SAND	PERCENT SILT	PERCENT CLAY	MINIMUM SIEVE SIZE (MM. TO HUNDREDTHS)	WIRE LENGTH OUT (M)	WIRE ANGLE (DEG.)	Avg. PHI SIZE (TO TENTHS)	EQUIPMENT CODE	SAMPLE NUMBER	SAMPLE VOLUME (LITERS TO 100)	NO. OF SAMPLES IN SAMPLE VOLUME									
(032)				START DEPTH	END DEPTH						ORGANIC	TOTAL																				
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	SPECIES CODE		SUB SPECIES	NUMBER OF INDIVIDUALS	SPECIES TOTAL WEIGHT (GRAMS TO THOUSANDTHS)		BLANK										SAMPLE NUMBER	BLANK											
(032)																																

PUNCH CARD TRANSCRIPT

60

64

70

90

PUR-

R 71208

LRCL=86

BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

RECORD NAME SPECIES RECORD

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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	I5	
Species Code	16	10	Bytes	5A2	
Sub Species Code	26	2	Bytes	A2	
Number of Individuals	28	5	Bytes	I5	
Species Total Weight	33	10	Bytes	I10	Grams to thousandths
Blank	43	36	Bytes	36X	
Segment Sequence Number	79	2	Bytes	I2	Corresponding to the sample segment sequence number in which the species is found. (e.g. when record type 3 has a segment sequence no. of 06, all record type 5 records as- sociated will have segment sequence no. of 06.)
Blank	81	6	Bytes	6X	
					The first N records (optional) of each file may be Type 1 records sequenced in ascending order 01 through N. Each sam- pling station within the file will begin with a single Type 2 record. Each segment within a sample will have one Type 3 record with a unique, ascend- ing sequence number (01 through the total number of delineated segments). Each species de- tected in a segment will have a unique Type 5 record and will be tied to the segment with a corresponding segment sequence number.

BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

2. 20-76

RECORD NAME SEGMENT DETAIL RECORD, CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Average Phi Size	69	3	Bytes	I3	To tenths
Equipment Code	72	3	Bytes	A3	'BMT' = Beam Trawl 'OTB' = Otter Trawl 'SMG' = Smith-MacIntyre Grab 'DSC' = Deep Sea Camera 'MCB' = Multiple Core 'QMB' = 1/4 Meter Sq. Box Core 'GMB' = 1/10 Meter Sq. Box Core 'VVG' = Van Veen Grab Originator's Number
Sample Number	75	4	Bytes	I4	
Segment Sequence	79	2	Bytes	I2	Sequential number indicating an individual segment of a sample. These numbers should be consecutive (01,02,03,etc.)
Sample Volume	81	4	Bytes	I4	Liters to tenths
Number of Grabs	85	2	Bytes	I2	Total number making up sample volume

BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

SEGMENT DETAIL RECORD

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	I3	Always '032'
Cruise Number	4	6	Bytes	I6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	I5	
Sample Segment					
Start Depth	16	2	Bytes	I2	Start depth of segment within sample in cm.
End Depth	18	2	Bytes	I2	End depth of segment within sample in cm.
Penetration Depth	20	3	Bytes	I3	Core penetration in mm.
Area Sampled	23	7	Bytes	I7	Meters squared to thousandths
Bottom Salinity	30	5	Bytes	I5	Parts per thousand to thousandths
Bottom Temperature	35	4	Bytes	I4	Degrees Celsius to hundredths
Bottom Oxygen	39	3	Bytes	I3	Milliliters per liter to tenths
Sediment Organic Carbon	42	4	Bytes	I4	Percent by weight to hundredths
Sediment Total Carbon	46	4	Bytes	I4	Percent by weight to hundredths
Sand	50	3	Bytes	I3	Percent by volume to tenths
Silt	53	3	Bytes	I3	Percent by volume to tenths
Clay	56	3	Bytes	I3	Percent by volume to tenths
Minimum Sieve Size	59	4	Bytes	I4	Millimeters to hundredths
Wire Length	63	4	Bytes	I4	Length of wire out in whole meters.
Wire Angle	67	2	Bytes	I2	In whole degrees from verticals

BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

2-20-76

RECORD NAME STATION (SAMPLE) HEADER RECORD, CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
End Date (GMT)					
Year	48	2	Bytes	I2	00 to 99
Month	50	2	Bytes	I2	01 to 12
Day	52	2	Bytes	I2	01 to 31
End Time (GMT)					
Hours	54	3	Bytes	I3	To tenths (000 to 239)
End Latitude					
Degrees	57	2	Bytes	I2	00 to 90
Minutes	59	2	Bytes	I2	00 to 59
Seconds	61	2	Bytes	I2	00 to 59
Hemisphere	63	1	Bytes	A1	'N' or 'S'
End Longitude					
Degrees	64	3	Bytes	I3	000 to 180
Minutes	67	2	Bytes	I2	00 to 59
Seconds	69	2	Bytes	I2	00 to 59
Hemisphere	71	1	Bytes	A1	'E' or 'W'
Distance Offshore	72	3	Bytes	I3	Distance to nearest shoreline in whole kilometers.
Tow Direction	75	3	Bytes	I3	Direction from true North in whole degrees.
Blank	78	9	Bytes	9X	

# BENTHIC ORGANISMS RECORD FORMAT DESCRIPTION

RECORD NAME STATION (SAMPLE) HEADER RECORD

2-20-76

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always '2'
Station Number	11	5	Bytes	I5	
Start Depth	16	4	Bytes	I4	To whole meters
Start Date (GMT)					
Year	20	2	Bytes	I2	00 to 99
Month	22	2	Bytes	I2	01 to 12
Day	24	2	Bytes	I2	01 to 31
Start Time (GMT)					
Hour	26	3	Bytes	I3	To tenths (000 to 239)
Start Latitude					
Degrees	29	2	Bytes	I2	00 to 80
Minutes	31	2	Bytes	I2	00 to 59
Seconds	33	2	Bytes	I2	00 to 59
Hemisphere	35	1		A1	'N' or 'S'
Start Longitude					
Degrees	36	3	Bytes	I3	000 to 180
Minutes	39	2	Bytes	I2	00 to 59
Seconds	41	2	Bytes	I2	00 to 59
Hemisphere	43	1	Bytes	A1	'E' or 'W'
End Depth	44	4	Bytes	I4	To whole meters



BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

2-30-76

RECORD NAME    HEADER (TEXT)    RECORD    (OPTIONAL)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Ship Name	11	6	Bytes	A6	
Text	17	62	Bytes	62A1	
Sequence Number	79	2	Bytes	I2	Incremented by one for each text record.
Blank	81	6	Bytes	6X	

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

Four record types differentiated by a "Record Type Identifier" field in byte 10 of every record.

RECORD TYPE

DATA TYPE

1	Header (Text) Record (Optional)
2	Station (Sample) Header Record
3	Segment Detail Record
5	Species Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER \_\_\_\_\_

ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

## Benthic Organisms

(+n-1.) -207000

Station (sample)

Copyright © 1991

Supplies

[illegible]

PUNCH CARD TRANSCRIPT

# WENTHILL ORGANISM RECORD FORMAT DESCRIPTION

RECORD NAME SPECIES RECORD

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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	I5	
Species Code	16	10	Bytes	5A2	
Sub Species Code	26	2	Bytes	A2	
Number of Individuals	28	5	Bytes	I5	
Species Total Weight	33	10	Bytes	I10	Grams to thousandths
Blank	43	36	Bytes	36X	
Segment Sequence Number	79	2	Bytes	I2	Corresponding to the sample segment sequence number in which the species is found. (e.g. when record type 3 has a segment sequence no. of 06, all record type 5 records as- sociated will have segment sequence no. of 06.)
Blank	81	6	Bytes	6X	
					The first N records (optional) of each file may be Type 1 records sequenced in ascending order 01 through N. Each sam- pling station within the file will begin with a single Type 2 record. Each segment within a sample will have one Type 3 record with a unique, ascend- ing sequence number (01 through the total number of delineated segments). Each species de- tected in a segment will have a unique Type 5 record and will be tied to the segment with a corresponding segment sequence number.

# RECORD FORMAT DESCRIPTION

2. 20-76

RECORD NAME SEGMENT DETAIL RECORD, CONTINUED

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Average Phi Size	69	3	Bytes	I3	To tenths
Equipment Code	72	3	Bytes	A3	'BMT' = Beam Trawl 'CTB' = Otter Trawl 'SMG' = Smith-MacIntyre Grab 'DSC' = Deep Sea Camera 'MCB' = Multiple Core 'QMB' = 1/4 Meter Sq. Box Core 'GMB' = 1/10 Meter Sq. Box Core 'VVG' = Van Veen Grab Originator's Number
Sample Number	75	4	Bytes	I4	
Segment Sequence	79	2	Bytes	I2	Sequential number indicating an individual segment of a sample. These numbers should be consecutive (01,02,03,etc.)
Sample Volume	81	4	Bytes	I4	Liters to tenths
Number of Grabs	85	2	Bytes	I2	Total number making up sample volume

RECORD FORMAT DESCRIPTION

SEGMENT DETAIL RECORD

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	I3	Always '032'
Cruise Number	4	6	Bytes	I6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	I5	
Sample Segment					
Start Depth	16	2	Bytes	I2	Start depth of segment within sample in cm.
End Depth	18	2	Bytes	I2	End depth of segment within sample in cm.
Penetration Depth	20	3	Bytes	I3	Core penetration in mm.
Area Sampled	23	7	Bytes	I7	Meters squared to thousandths
Bottom Salinity	30	5	Bytes	I5	Parts per thousand to thousandths
Bottom Temperature	35	4	Bytes	I4	Degrees Celsius to hundredths
Bottom Oxygen	39	3	Bytes	I3	Milliliters per liter to tenths
Sediment Organic Carbon	42	4	Bytes	I4	Percent by weight to hundredths
Sediment Total Carbon	46	4	Bytes	I4	Percent by weight to hundredths
Sand	50	3	Bytes	I3	Percent by volume to tenths
Silt	53	3	Bytes	I3	Percent by volume to tenths
Clay	56	3	Bytes	I3	Percent by volume to tenths
Minimum Sieve Size	59	4	Bytes	I4	Millimeters to hundredths
Wire Length	63	4	Bytes	I4	Length of wire out in whole meters.
Wire Angle	67	2	Bytes	I2	In whole degrees from verticals

## RECORD FORMAT DESCRIPTION

1-00-70

RECORD NAME STATION (SAMPLE) HEADER RECORD, CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
End Date (GMT)					
Year	48	2	Bytes	I2	00 to 99
Month	50	2	Bytes	I2	01 to 12
Day	52	2	Bytes	I2	01 to 31
End Time (GMT)					
Hours	54	3	Bytes	I3	To tenths (000 to 239)
End Latitude					
Degrees	57	2	Bytes	I2	00 to 90
Minutes	59	2	Bytes	I2	00 to 59
Seconds	61	2	Bytes	I2	00 to 59
Hemisphere	63	1	Bytes	A1	'N' or 'S'
End Longitude					
Degrees	64	3	Bytes	I3	000 to 180
Minutes	67	2	Bytes	I2	00 to 59
Seconds	69	2	Bytes	I2	00 to 59
Hemisphere	71	1	Bytes	A1	'E' or 'W'
Distance Offshore	72	3	Bytes	I3	Distance to nearest shoreline in whole kilometers.
Tow Direction	75	3	Bytes	I3	Direction from true North in whole degrees.
Blank	78	9	Bytes	9X	

# BENTHIC ORGANISMS RECORD FORMAT DESCRIPTION

2-12-76

RECORD NAME STATION (SAMPLE) HEADER RECORD

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always '2'
Station Number	11	5	Bytes	I5	
Start Depth	16	4	Bytes	I4	To whole meters
Start Date (GMT)					
Year	20	2	Bytes	I2	00 to 99
Month	22	2	Bytes	I2	01 to 12
Day	24	2	Bytes	I2	01 to 31
Start Time (GMT)					
Hour	26	3	Bytes	I3	To tenths (000 to 239)
Start Latitude					
Degrees	29	2	Bytes	I2	00 to 80
Minutes	31	2	Bytes	I2	00 to 59
Seconds	33	2	Bytes	I2	00 to 59
Hemisphere	35	1		A1	'N' or 'S'
Start Longitude					
Degrees	36	3	Bytes	I3	000 to 180
Minutes	39	2	Bytes	I2	00 to 59
Seconds	41	2	Bytes	I2	00 to 59
Hemisphere	43	1	Bytes	A1	'E' or 'W'
End Depth	44	4	Bytes	I4	To whole meters



BIOETHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

2-30-76

RECORD NAME HEADER (TEXT) RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Ship Name	11	6	Bytes	A6	
Text	17	62	Bytes	62A1	
Sequence Number	79	2	Bytes	I2	Incremented by one for each text record.
Blank	81	6	Bytes	6X	

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

Four record types differentiated by a "Record Type Identifier" field in byte 10 of every record.

RECORD TYPE

1  
2  
3  
5

DATA TYPE

Header (Text) Record (Optional)  
Station (Sample) Header Record  
Segment Detail Record  
Species Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

9 TRK, VOL=SER=001088, DSN=HADLEY, LRECL=84,  
BKIsize=1680, 1600 BPI, SL, FB 2533 Records  
RECORD Type 2 Station '00935' was corrected bytes 16-43  
ON USER tape

~~VOL=SER=001151~~ IS AN EXACT COPY NOT  
~~DSN=HADLEY~~ TRANSFERRED

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL  
☒ FORTRAN ☐ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE

☐ BCD ☐ BINARY  
☐ ASCII ☒ EBCDIC  
☐

6. NUMBER OF TRACKS (CHANNELS)

☐ SEVEN  
☒ NINE  
☐

7. PARITY

☐ ODD  
☐ EVEN

8. DENSITY

☐ 200 BPI ☒ 1600 BPI  
☐ 556 BPI  
☐ 800 BPI  
☐

9. LENGTH OF INTER-RECORD GAP (IF KNOWN)

☐ 3/4 INCH  
☐

10. END OF FILE MARK

☐ OCTAL 17  
☐

11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)

VOL=SER=001088, DSN=HADLEY  
NAPIS # = 76-1352

12. PHYSICAL BLOCK LENGTH IN BYTES

1680

13. LENGTH OF BYTES IN BITS

ORIGINATOR TAPE: (TRANSFERRED TO 035)

9 TRK, BCD, 1600 BPI, ODD PARITY

VOL= SER= NORPAC

Translated to:

9 TRK, SL, EBCDIC, 1600 BPI, DSN= NORPAC,

VOL= SER: 073362, DCB=(RECFM=FB, LRECL=84, BLKSIZE=1600)  
→ (TRANSFERRED TO 035)

ON ORIGINATOR TAPE: STATION '00935'

A RECORD Type 2 DATE '750709' WAS INCORRECT  
from byte 16-43 AND WAS CORRECTED ON USER  
TAPE:

'16375070920593700(442010064'  
N.I.

WAS CHANGED TO

'016375070920593700N1420103CW'

## INVERTEBRATE IDENTIFICATION PROCEDURE

Laboratory procedures for verification of field identifications are as follows: Specimens are deformed by draining off the 10% formaldehyde, rinsing in fresh water and adding aqueous ammonia (28%) to neutralize the formic acid. A minimum of two hours is normally needed to neutralize the odor so the organisms are bearable to work with.

Any corrections in identifications are made on the original field notes as well as the benthic trawl data forms. Larger organisms that were weighed in pounds in the field are converted to kilograms in the laboratory. Weights of smaller organisms (clams, polychaetes, etc.) that were estimated in the field are weighed in the laboratory to the nearest gram.

Completed trawl data forms are key punched and ready for analysis.

All representative material returned to the laboratory is archived, properly labeled for identification, in 10% formalin.

# 400-MPSH EASTERN OTTER TRAWL - SPECIFICATIONS

Headrope	71 feet plus thimble eyes, of 3/8" 6 x 19 galvanized wire rope wrapped (full wrap) with 3/8" polypropylene rope.
Footrope	94 feet plus thimble eyes of 1/2" 6 x 19 galvanized wire rope wrapped with 9/16" polypropylene rope.
Breast lines	6 feet of 1/4" galv. proof coil chain.
Riblines	6 each, of 1/2" nylon; one each center top and bottom from headrope and footrope through entire net including codend. Four, one from each junction of wing and body extending to approximately the intermediate.
Seams	Side seams shall consist of lacing 3 knots (2 meshes) from each panel with No. 36 nylon twine. Tie each full mesh.
Hanging	Headrope: Wings - 2 meshes to 6" Bosom - 4 meshes to 5-1/4"  Footrope: Wings - 4 bars to 7-9/16" Lower Bosom - 4 meshes to 7"
Footrope weight	112.5 feet of 1/4" galv. proof coil chain. 9 inches chain per 7-1/2" hanging.
Puckering rings	5/16" by 2-1/4" galv. steel (approx. 33 pieces secured with No. 38 braided polypropylene.
Splitting rings	1/2" by 4" galv. steel (5 pieces)
Liner in intermediate and bag sections	1-1/4" mesh, No. 18 nylon; 280-340 meshes around, 200-240 meshes deep secured 15 meshes up from bottom of intermediate (leave about 2 feet of liner extending from end of bag).
Chafing gear	Standard commercial construction (approx. 4 inch mesh 1/4" polypropylene. 110 meshes around, 55 meshes deep, secured at junction of intermediate and codend.
Webbing	Nylon, preshrunk, dyed green, with full mesh selvage.
Floats	15, 8" <u>Deep Sea</u> floats, evenly spaced (5.5 lbs. buoyancy each)

than 0.5 lb were counted and their weights were calculated from count-weight ratios determined on previous samples of the same taxon.

The following information was recorded for each trawl: Station number, Tow number, Date, Sea conditions, Start - finish times, Start - finish position, Distance fished - minimum - maximum depth, Percent of trawl sampled.

Trawl operations were conducted in a joint operation by the University of Alaska (Institute of Marine Science) and the Seattle Northwest Fisheries Center of National Marine Fisheries Service. Trawling was conducted with a standard 400 mesh Eastern otter trawl (specifications enclosed) for a duration of 1 hour (Gulf of Alaska) or 1/2 hour (Bering Sea) along pre-selected transects.

Depending on the size of the haul, either the total haul or split was sorted. Sub-sampling was accomplished, when necessary, with a cargo net which retained 1/2 the haul dumped into a 5,000 lb capacity checker. If sub-sampling was necessary, the weight of the unsampled portion was recorded prior to returning to sea.

The total haul or sub-sample was placed on the sorting table and sorted as follows: fishes were sorted first, in order of dominance. Once all vertebrates were removed, the invertebrate sort commenced. Invertebrates were sorted in order of dominance. Sorting was supervised by a person knowledgeable in invertebrate identification. Any doubt as to identification led to the preservation of specimens in 10% buffered formalin and later identification at the Marine Sorting Center, University of Alaska. In such cases the species was tentatively identified in the field to best taxon and coded, i.e. Pandalus A, Pandalus B, Sea Star A, Sea Star B, etc. The remainder of the haul was returned to the sea.

Following sorting, each specimen type was collectively weighed to the nearest 0.5 lb and counted. Specimen types collectively weighing less

5/24/76

WIPAC 817

PROCEDURES AND QUALITY CONTROL

FOR

THE DISTRIBUTION, ABUNDANCE, DIVERSITY, AND PRODUCTIVITY  
OF BENTHIC ORGANISMS IN THE GULF OF ALASKA

as used by

Howard M. Feder, Principal Investigator  
Contract Number 03-5-022-56  
Task Order 20, R. U. #281

Date: 5/24/76



# RECORD FORMAT DESCRIPTION

5/24/76

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
As per accepted File Type '032' Benthic Organism.					2/20/76 amended, Record type #5 approved 5/6/76
Comment.					
Station 0814					
Talon Code				680309611	
<u>total count species field.</u>					Count 125000 weight 75000.0
This station was entered thus					
Talon				Count	wt
680309611				62500	37500.0
680309611				62500	37500.0

BOTH TRANSFERRED TO  
035 ON 08/27/76

MAGNETIC TAPE LABEL/RECEIPT					
Job. No.	User Name	PL	Task No.	Date	
	031			8/19/76	
Reel No.	Density	200/	Drive	Mast. Reel	
1 01 1	556/800/1600		#	#	
Track	Tape	Storage Location	Packed	Decimal/EBCDIC/	
7/9	New/Used			BCD/BINARY/ASCII	
Data Description					
OCSEAP FROM 03041 A A					
Remarks/Special Entries/Title/Job Name					
DSN= HADLEY					
Vol-Ser.	LRCL	Bk. Fact.	Release Authorized by	Date Released	
00151	84	20			

NOAA Form 47-29  
(4-73)

U. S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADM.

NOT TRANSFERRED,

#3362 TRANSFERRED  
AS WORKING  
COPY OF

ORIGINATOR'S TAPE,  
CHARACTERISTICS  
SAME EXCEPT  
DSN= NORPAC

MAGNETIC TAPE LABEL/RECEIPT					
Job. No.	User Name	PL	Task No.	Date	
	031			8/19/76	
Reel No.	Density	200/	Drive	Mast. Reel	
1 01 1	556/800/1600		#	#	
Track	Tape	Storage Location	Packed	Decimal/EBCDIC/	
7/9	New/Used			BCD/BINARY/ASCII	
Data Description					
OCSEAP A A A A					
Remarks/Special Entries/Title/Job Name					
DSN= HADLEY					
Vol-Ser.	LRCL	Bk. Fact.	Release Authorized by	Date Released	
001088	84	20			

NOAA Form 47-29  
(4-73)

U. S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADM.

# 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
Benthic Organisms	Species list using Mueller Turon Code weight/gms.	all procedures enclosed		<div data-bbox="1749 508 1948 693">5/24/76</div>

## DATA DOCUMENTATION FORM

5/24/76

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

NORPAC

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.

(IN house DDF)

## A. ORIGINATOR IDENTIFICATION

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>Institute of Marine Science University of Alaska Fairbanks, Alaska 99701</i>											
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>NOAA/Blm. Outer Continental Shelf Environmental Assessment Program Federal Benthic Biology</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>North Pacific 817 File ID = 004317 OCSEAP</i>									
4. PLATFORM NAME(S) <i>North Pacific</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"> <tr> <th>PLATFORM</th> <th>OPERATOR</th> </tr> <tr> <td>USA</td> <td>USA</td> </tr> </table>	PLATFORM	OPERATOR	USA	USA	7. DATES <table border="1"> <tr> <th>FROM: MO, DAY, YR</th> <th>TO: MO, DAY, YR</th> </tr> <tr> <td>4/25/75</td> <td>8/2/75</td> </tr> </table>	FROM: MO, DAY, YR	TO: MO, DAY, YR	4/25/75	8/2/75
PLATFORM	OPERATOR										
USA	USA										
FROM: MO, DAY, YR	TO: MO, DAY, YR										
4/25/75	8/2/75										
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA 									
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)											
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>H.M. Feeler R.S. Hooley</i>											

DDE A: 1:21

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 7601352

- 1) File Type: CIA
- 2) Project Ident.: SECRET
- 3) Track Nos.: 0461

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

Isotonomie Code - Update  
# 5001830101 changed to  
5001840101.  
3-26-82.

J. Nelson

# DATA SET FILE - TEST

ADDITIONAL TRACK

1601352/0461

Step	Completion Date/Init.		Tape # or ID#	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #	12/9/81	JH	W00028	1	86	86	2529
QUAD/SCAN TAPE #	12/9/81	JH	603592	1	86	86	2529
ASSIGNED FOR PROCESS.							
SELF EVALUATION	12/23/81	JH					
QUALITY REVIEW	12/23/81	JH					
PRELIMINARY DATA SORT							
PRELIMINARY CHECK	12/29/81	JH					
FIRST USER TAPE #							2529
WORK DISK FILE	12/29/81	JH					
FORM USER TAPE #							
FORM MURDER	12/29/81	JH					
EDITED DISK FILE							
DATA SET "FINALIZED"							

DISJOY \* F032 .TR0461

DISJOY \* F032 .TR0461

DISJOY \* F032 .TR0461

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

ACCESSION/TRACK NO.: 7601352/0461

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	W00028	NL	86	86	FB		2529
DUPLICATE	003592	NL	86	86	FB		2529
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE		DISJOY# F032. TR 0461					2529
EDITED DISK FILE							

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

ACC # 76-1352

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			
Institute of Marine Science University of Alaska Fairbanks Alaska 99701			
2. EXPEdition, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCS/NOAA R.U. # 5/3/83		Miller Freeman 817 FID = 000817	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATE
Miller Freeman	Ship	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		USA USA	8/16 10/20/7
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input type="checkbox"/> NO <input type="checkbox"/> YES 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 INTERNATIONAL EXCHANGE?)			
<input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
H. Feder R. Haeckel			



# B. SCIENTIFIC CONTENT

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
es 3 ight	Taylor code 1 gms	See procedures	Enclosed	

# C. DATA FORMAT

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

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

Record Type I Text  
Type II  
Type III  
Type IV

## 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

all record type I  
followed by station data in the following  
order.  
Record type II  
III  
IV

## 3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL  
☒ FORTRAN ☐ LANGUAGE

## 4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907) 478-7856

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK  
99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/></p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .5 INCH</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/></p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> OCTAL 23</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN</p>	<p>5/303 32 000817 MILLER FREEMAN 8/16-10/20/75 H. Feder 9Trk, 800BPI, EBCDIC, No Label, Odd Par</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 87 BYTES/BLOCK 13. LENGTH OF BYTES IN BITS</p>

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<del>File Type</del>	File	Type	2	'032'	revised 76/5/06

#### 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.

[illegible]



4 133162342135 301707632015 230164742 226401003677 110070542747  
11 201547017074 472620143326 662403036214 472665353305 607427436136  
16 110060540742 613421005555 250074172500 200401002004 010020000000

#ISIA(H\7T :C1U%GL 190Y\*GP  
:PIY%PF @.FWD3350PFV(.5+%GL/<  
90+\*7K/1A0V)E0%VE0 410 410 000

PROCEDURES AND QUALITY CONTROL  
FOR  
THE DISTRIBUTION, ABUNDANCE, DIVERSITY AND PRODUCTIVITY  
OF BENTHIC ORGANISMS IN THE BERING SEA

as used by

Howard M. Feder, Principle Investigator  
Contract Number 03-5-022-56  
Task Order 15, R. U. #5/303

## TRAWL SAMPLING

Trawl operations were conducted in a joint operation by the University of Alaska (Institute of Marine Science) and the Seattle Northwest Fisheries Center of National Marine Fisheries Service. Trawling was conducted with a standard 400 mesh Eastern otter trawl (specifications enclosed) for a duration of 1 hour (Gulf of Alaska) or 1/2 hour (Bering Sea) along pre-selected transects.

Depending on the size of the haul, either the total haul or split was sorted. Sub-sampling was accomplished, when necessary, with a cargo net which retained 1/2 the haul dumped into a 5,000 lb capacity checker. If sub-sampling was necessary, the weight of the unsampled portion was recorded prior to returning to sea.

The total haul or sub-sample was placed on the sorting table and sorted as follows: fishes were sorted first, in order of dominance. Once all vertebrates were removed, the invertebrate sort commenced. Invertebrates were sorted in order of dominance. Sorting was supervised by a person knowledgeable in invertebrate identification. Any doubt as to identification led to the preservation of specimens in 10% buffered formalin and later identification at the Marine Sorting Center, University of Alaska. In such cases the species was tentatively identified in the field to best taxon and coded, i.e. Pandalus A, Pandalus B, Sea Star A, Sea Star B, etc. The remainder of the haul was returned to the sea.

Following sorting, each specimen type was collectively weighed to the

... times collectively weighing less



than 0.5 lb were counted and their weights were calculated from count-weight ratios determined on previous samples of the same taxon.

The following information was recorded for each trawl: Station number, Tow number, Date, Sea conditions, Start - finish times, Start - finish position, Distance fished - minimum - maximum depth, Percent of trawl sampled.

## TAPE OR DISK ASSIGNMENT SHEET

(MRL) 11/6/78

(Rev. 11/80)

ACCESSION/TRACK NO.: 7601392/0461

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	W00028	NL	86	86	FB		2529
DUPLICATE	003592	NL	86	86	FB		2529
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE		DISTRIBUTION F032-TR 0461					2529
EDITED DISK FILE							

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 7601-552

- 1) File Type: CONF
- 2) Project Ident.: CONF
- 3) Track Nos.: CONF

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

*No Error*

\* 3-26-81 updated

*Economic Code 5001030701  
changed to 5001040101*

*J. Nelson*



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
ENVIRONMENTAL DATA SERVICE

National Oceanographic Data Center

March 25, 1982

OA/D781/SJH

TO: OA/D781 - Michael Crane  
FROM: OA/D781 - *Sylvester Haliminski*  
SUBJECT: File Type 032 Benthic Organisms, OCSEAP Data

Please find enclosed our OCSEAP parameter check summaries, inventory runs and list of taxonomic codes on FTP 032 Benthic Organisms from Dr. Feder, RU005/281. The data are identified by NODC track numbers TR0461 (FID 000817) and TR3269 (FID FN002). They were reprocessed by you and submitted to NODC for final processing and archiving.

Only one minor problem was noted in TR0461. Taxonomic code 5001030101 Peisidice aspera was changed to number 5001040101. The former code is not used any more in the NODC code system. In TR3269 the "start time" field, in tenths of hours, was not reported in any stations. This is not critical.

The data sets are considered final processed. However, please review the actual range values in the check runs for verification and notify me if any corrections are required.

Enclosure

cc: D. Dale (w/enclosure)



#### 400-MESH EASTERN OTTER TRAWL - SPECIFICATIONS

Headrope	71 feet plus thimbled eyes, of 3/8" 6 x 19 galvanized wire rope wrapped (full wrap) with 3/8" polypropylene rope.
Footrope	94 feet plus thimbled eyes of 1/2" 6 x 19 galvanized wire rope wrapped with 9/16" polypropylene rope.
Breast lines	6 feet of 1/4" galv. proof coil chain.
Riblines	6 each, of 1/2" nylon; one each center top and bottom from headrope and footrope through entire net including codend. Four, one from each junction of wing and body extending to approximately the intermediate.
Seams	Side seams shall consist of lacing 3 knots (2 meshes) from each panel with No. 36 nylon twine. Tie each full mesh.
Hanging	Headrope: Wings - 2 meshes to 6" Bosom - 4 meshes to 5-1/4"  Footrope: Wings - 4 bars to 7-9/16" Lower Bosom - 4 meshes to 7"
Footrope weight	112.5 feet of 1/4" galv. proof coil chain. 9 inches chain per 7-1/2" hanging.
Puckering rings	5/16" by 2-1/4" galv. steel (approx. 33 pieces), secured with No. 38 braided polypropylene.
Splitting rings	1/2" by 4" galv. steel (5 pieces)
Liner in intermediate and bag sections	1-1/4" mesh, No. 18 nylon; 280-340 meshes around, 200-240 meshes deep secured 15 meshes up from bottom of intermediate (leave about 2 feet of liner extending from end of bag).
Chafing gear	Standard commercial construction (approx. 4 inch mesh 1/4" polypropylene. 110 meshes around, 55 meshes deep, secured at junction of intermediate and codend.
Webbing	Nylon, preshrunk, dyed green, with full mesh selvage.
Floats	15, 8" <u>Deep Sea</u> floats, evenly spaced (5.5 lbs. buoyancy each)

## INVERTEBRATE IDENTIFICATION PROCEDURE

Laboratory procedures for verification of field identifications are as follows: Specimens are deformed by draining off the 10% formaldehyde, rinsing in fresh water and adding aqueous ammonia (28%) to neutralize the formic acid. A minimum of two hours is normally needed to neutralize the odor so the organisms are bearable to work with.

Any corrections in identifications are made on the original field notes as well as the benthic trawl data forms. Larger organisms that were weighed in pounds in the field are converted to kilograms in the laboratory. Weights of smaller organisms (clams, polychaetes, etc.) that were estimated in the field are weighed in the laboratory to the nearest gram.

Completed trawl data forms are key punched and ready for analysis.

All representative material returned to the laboratory is archived, properly labeled for identification, in 10% formalin.

## DATA DOCUMENTATION FORM

TR 0461

NOAA FORM 24-13  
(2-85)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM APPROVED  
O.M.B. No. 0648-0024  
EXPIRES 2/29/87

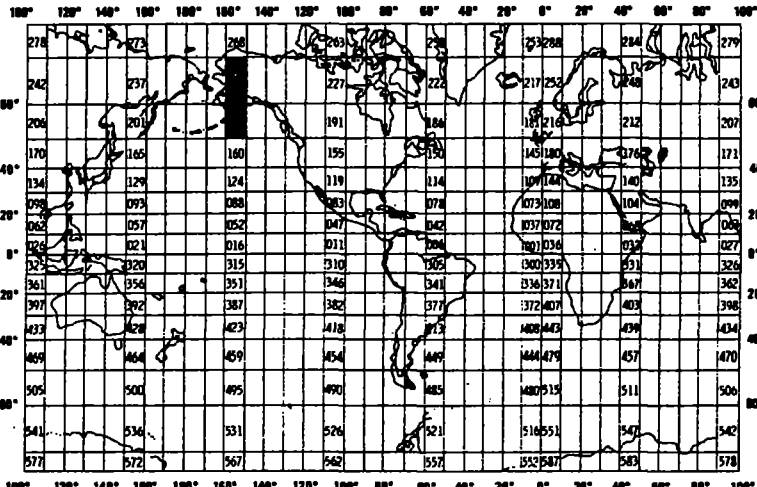
F032 + F132

(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  Howard M. Feder Institute of Marine Science University of Alaska Fairbanks, Alaska 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  NOAA/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  NO 817	
4. PLATFORM NAME(S)  N, Pacific	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)  U.S., U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR  5/3/75 8/7/75
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input 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)  Howard M. Feder 907-474-7824			

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	7or	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	$\phi$ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)



## B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
PLEASE REFER TO	NODC FILE TYPE	132		

## C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

### C. DATA FORMAT

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

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organized as according to File Type 132 structure,

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER John Hennessy

ADDRESS 397 Washington St., Duxbury, MA 02360 (617) 934-5682

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____		<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____		<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input type="checkbox"/> ODD <input type="checkbox"/> EVEN		<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____		
<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 8000		
		<b>13. LENGTH OF BYTES IN BITS</b>

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_


14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

## 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 (✓)	

03/23/89

TO: E/OC12 - Branch Chief 

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

---

Benthic Organisms

(F132)

Acc: 7601352 Ref: TR0461 - TV0461 133 sta. 3,659 rec. 

Battelle-NE

(OCSEAP) (replacement data)

cc: Division Director

03/23/89

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

---

Benthic Organisms (F132)

Acc: 7601352 Ref: TR0461 - TV0461 133 sta. 3,659 rec.

Battelle-NE

(OCSEAP) (replacement data)

cc: Division Director

ACCESSION NO. 7601352FILETYPE F132TRACK NO. TR0461PROJECT  
IDENTIFICATION 0081OCSEAP

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	2/2/87	K	COMDEC - A00416	1	80	8000	3659
DUPLICATE TAPE	2/17/87	K	W08080	1	80	8000	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

DSN DNOBC #7601352

DATED ARCHIVED AS F032

D132X

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

3659  
records

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



## DINDE QUERY LISTING

02/24/1989

* ACC-NO	REFNO	F-A	PROJ	INST	PLAT	CRUISE	***CRUISE START	DATES*** END	STA IN	STA OUT
***										
* 7601352	TR0461	F132	0081	3117	3144	000817	05/03/1975	08/07/1975	133	133

NODC ERRONEOUS DATA FORM (1083)

Use This Form to Notify the Data Base Administrator  
of Any Error in NODC's Files

File Type: F132 Date: Feb. 24, 1989 Number: \_\_\_\_\_

Tape/Disk Name: \_\_\_\_\_ Tape Number: \_\_\_\_\_

Describe Error(s) (Provide Any Available Documentation.)

Acc: 7601352 Ref: TR0461

-----  
These data have been resubmitted by Battelle as a replacement data set.

\_\_\_\_\_  
Name: F. Mitchell

Date Received: \_\_\_\_\_

Master File:

Date Retrieved for Corrections: \_\_\_\_\_ Inventory Updated: \_\_\_\_\_

Date Given to Processing: \_\_\_\_\_ Deleted: \_\_\_\_\_

Date Received from Processing: \_\_\_\_\_

Date Added to Master File: \_\_\_\_\_ Inventory Updated: \_\_\_\_\_

Ancillary File:

Date Corrected: \_\_\_\_\_

Remarks:

CC: T. Knapik



New England Marine Research Laboratory  
397 Washington Street  
Duxbury, Massachusetts 02332  
Telephone (617) 934-5682

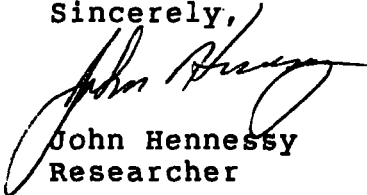
February 2, 1987

Sid Halminski  
National Oceanographic Data Center  
NOAA/NESDIS E/OC21  
2001 Wisconsin Avenue, NW  
Washington, DC 20235

Dear Sid:

Enclosed is a Data Definition Form for the tape that we submitted on January 21, 1987. I am sorry for any inconvenience this oversight has caused. If you have any further questions concerning this data tape please contact John Hennessy or Thomas Gulbransen at (617)934-5682.

Sincerely,



John Hennessy  
Researcher

#022/01-28-87



New England Marine Research Laboratory  
397 Washington Street  
Duxbury, Massachusetts 02332  
Telephone (617) 934-5682

January 21, 1987

National Oceanographic Data Center  
NOAA/NESDIS E/OC21  
2001 Wisconsin Avenue, NW  
Washington, DC 20235

Dear Sir:

The enclosed magnetic tape contains 1 data file that is being submitted to NODC by Battelle Memorial Institute's Department of Ocean Sciences and Technology. Submission of this file to NODC represents a deliverable under contract number 84-ABC-000149 between the National Oceanic and Atmospheric Administration and the Battelle Memorial Institute.

(Included with this tape is a Data Definition Form. This DDF describes the surveys conducted by the University of Alaska.)

Tape description: Battelle New England Marine Research Lab.  
397 Washington St.  
Duxbury, MA 02332  
OCSEAP data of NODC File Type 132  
ASCII unlabelled  
dens=1600 bpi, blksize=8000, recl=80  
3659 records

If there are any questions concerning this data tape please contact John Hennessy or Thomas Gulbransen at (617)934-5682.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Hennessy".

John Hennessy  
Researcher

Enclosure

USER NAME <b>HALMINSKI</b>	PHONE # <b>673-5643</b>	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIR
-------------------------------	----------------------------	------------	----------------	----------	-----

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

*200100*

*F132.*

INPUT MEDIUM PAPER CARD DISK <b>TAPE</b> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	---

TAPE/DISKETTE INFORMATION

	TAPE #/ <del>DISKETTE</del>	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FIL
PUT	<i>COMB</i>		<i>9</i>	<i>1600</i>			<i>FB</i>	<i>20</i>	<i>8000</i>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF. OTHER(SPECIFY)				DATA SET NAME			PUR DAT
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FIL
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT
INPUT	<del>DISKETTE</del>									
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT

SPECIAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

31 USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<i>2/3/87</i>	<i>09.25</i>	<i>09.30</i>	<i>C</i>	<i>COMPLETED BY JAMES</i>

REMARKS

USER NAME <b>HALMINSKI</b>	PHONE # <b>673-5643</b>	ORG/TASK #	DATE SUBMITTED <b>2/9/87</b>	DATE DUE	BJH
-------------------------------	----------------------------	------------	---------------------------------	----------	-----

INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

**F132**

**MAKE SL COPY  
SCAN OUTPUT**

**7601352**

INPUT MEDIUM PAPER CARD DISK <u>TAPE</u> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT <u>TAPE</u> PLOT DISKETTE OTHER(SPECIFY)
--	--

TAPE/DISKETTE INFORMATION

	TAPE #/ <del>DISKETTE</del>	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FIL
INPUT	<b>COMDEC</b>		<b>9</b>	<b>1600</b>		<b>NL</b>	<b>FB</b>	<b>80</b>	<b>8000</b>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF. OTHER(SPECIFY)				DATA SET NAME			PUR DAT
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FIL
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT
INPUT	<b>W08050</b>		<b>9</b>	<b>1600</b>		<b>SL</b>	<b>FB</b>	<b>80</b>	<b>8000</b>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNDC * 7601352</b>			PUR DAT

SPECIAL INSTRUCTIONS

**NEED 'W' TAPE**

ESTIMATED  
EXECUTION  
TIME

31 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>1020907</b>	<b>2/10/87</b>	<b>08:40</b>	<b>08:50</b>	<b>C</b>	<b>COMPLETED BY JAMES</b>

REMARKS

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7601352	F132	TR0461	0081	31I7	3144	1975/05/03	000817	299808

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7601352	F132	TR0461	3144	133	3599	75/05/03	75/08/07

(1 row affected)