

LEG II = TR905
LEG III = TR906

RECEIVED
ACCESSION NUMBER
76-1874

DDF A:2:05

DATA DOCUMENTATION FORM

NOV 11 1976

NOAA FORM 24-13
(4-72)

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

NEG OA

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

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

7601874

TR0905-TR0906

F013

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 Bruce McCain Northwest Fisheries Center - NMFS, Rm. 223 2725 Montlake Blvd. East Seattle, Wa. 98112 TR0910-TR0911 F028			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED R. V. # 332 OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT File ID # 760327 CHANGE TO 750905	
4. PLATFORM NAME(S) Miller Freeman Fall 1975 Cruise Legs II, III	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship 750908-750929 (II) 751002-751024 (III)	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR U.S. U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 9/12/75 10/21/75
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. Bering Sea 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) Bruce McCain Northwest Fisheries Center, NMFS Room 223 2725 Montlake Blvd. E. Seattle, Wa. 98112			

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	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

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

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

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 checked="" 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 checked="" 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 checked="" 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 checked="" 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>

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
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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		

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

LOS I = TR 0907
LOS II = TR 0908
LOS III = TR 0909NOAA 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-R2651

OCT 1 1976

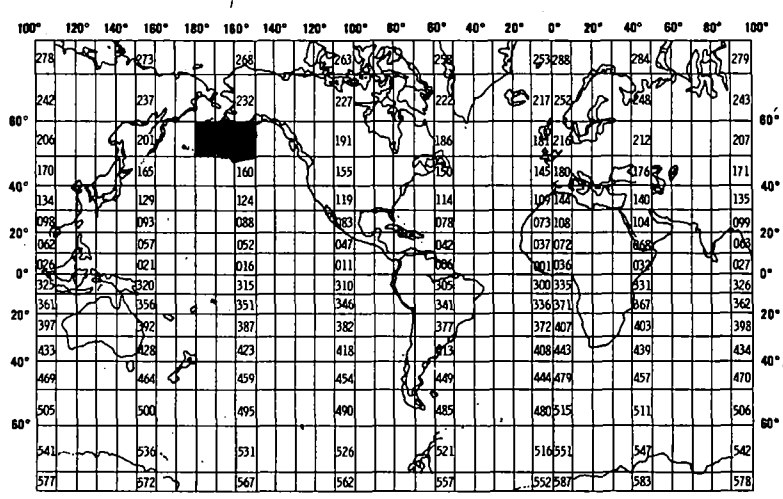
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7601874

TR0907-TR0909

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 Bruce McCain, School of Medicine, Dept. of Pathology, U. of California at Davis, Davis, Calif.			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 76-1 FILE ID - 760327 (may want to change file ID for this)	
4. PLATFORM NAME(S) Miller FRS-21 Freeman Logs I, II, III	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship LOS I = 760324-760414 US LOS II = 760424-760513 LOS III = 760518-760604	6. PLATFORM AND OPERATOR 7. DATES CRUISE NATIONALITY(IES) PLATFORM OPERATOR FROM: MO, DAY, YR TO: MO, DAY, YR US US 4/1/76 6/1/76 11/1/76	
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 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) Bruce McCain Northwest Fisheries Center NMFS 2725 Montlake Blvd. E. Seattle, WA. 98112			

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	700	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
<u>Species Catch</u>				
(1) Surface temp. Bottom temp.	0.1 C°	X BT	N/A	N/A
(2) Ave. depth of bottom during tow	meters	Sonar	N/A	averaged over tow length
(3) Total weight of species	0.01 kg	topload scale (heavy duty)	N/A	N/A
(4) Weight Total Number of one species in haul	whole units	visual-hand counter	N/A	Actual Count Proportion estimate
(5) Weight of species sub-sample	0.01 kg	topload scale (heavy duty)	N/A	N/A
(6) Number in subsample	whole units	visual-hand counter	N/A	Actual Count
(7) Number examined	"	"	N/A	Actual Count
(8) Disease code	"	visual	N/A	N/A
(9) Individuals affected	"	visual	N/A	N/A
<u>Indiv. Record</u>				
(1) Sex	N/A	visual/surgical	N/A	N/A
(2) weight	grams	balance scale	N/A	N/A
(3) Length	mm	meter stick	N/A	N/A
(4) Age	whole years	scale or otolith	N/A	N/A
(5) Number of lesions	whole units	Visual	N/A	N/A
(6) Disease Code	-	Visual	N/A	N/A

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
(7) lesion location	see dictionary for data format	visual	N/A	N/A
(8) width of lesion length of lesion	mm	calipers	N/A * Lesions analyzed by electron microscopy, bacteriology, virology, histology to define pathological processes (in laboratory). Also photographs of characteristic diseases.	N/A

C. DATA FORMAT

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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

File Header Record (Marine Fish Pathology)
 Station Header Record (" " ")
 Species Catch Record (" " ")
 Individual Record (" " ")
 Supplementary Lesion Record (" " ")

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Same as above - station header defines parameters of each haul, species catch defines species and pathology represented, individual record and supplementary lesion record describe specifics of the gross pathology seen in/on each fish

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS Dean Dale
PMEL, Seattle, Wa. 98112

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 checked="" 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 checked="" 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 checked="" 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 checked="" 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>	

RECORD NAME

NOAA FORM 24-13

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 NAMEUSCOMM-DC 44289-P72

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 (✓)	

RECORD FORMAT DESCRIPTION

FILE NAME File Header Record (Marine Fish Pathology)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (Oct, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '013'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '1'
Vessel	11	11	Bytes	11A1	Left justified
Cruise or Leg Number	22	6	Bytes	6A1	Left Justified
Cruise Dates	28	17	Bytes	5(I2,A1),I2	XX/XX/XX-XX/XX/XX Beginning Month, Day, Year; Ending Month, Day, Year
Senior Scientist	45	19	Bytes	19A1	Left justified
Investigator/ Institution	64	17	Bytes	17A1	Left justified

RECORD FORMAT DESCRIPTION

7

Station Header Record (Marine Fish Pathology)

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 '013'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '2'
Cruise Number	11	2	Bytes	A2	Analogous to NODC Station Number
haul or Set Number	13	3	Bytes	A3	
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, GMT					
Year	31	2	Bytes	I2	00-99
Month	33	2	Bytes	I2	01-12
Day	35	2	Bytes	I2	01-31
Time, GMT					
Hours	37	2	Bytes	I2	00-23
Minutes	39	2	Bytes	I2	00-59
Gear Type Code	41	2	Bytes	A2	Use File 023 Gear Type Code
Duration of Fishing	43	3	Bytes	I3	Hours to tenth
Distance Fished	46	3	Bytes	I3	Kilometers to tenths
Surface Temperature	49	3	Bytes	I3	Degrees and tenths Celsius, if negative, enter minus sign adjacent and to the left of temperature value

RECORD FORMAT DESCRIPTION

7-10-71

NAME Station Header Record, cont'd (Marine Fish Pathology)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., 51th byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Water Temperature	52	3	Bytes	I3	Degrees and tenths Celsius, if negative, enter minus sign adjacent and to the left of temperature value
Average Depth of Bottom During Tow	55	4	Bytes	I4	Depth in meters
Bottom: Type Code	59	2	Bytes	A2	Use File 023 Bottom Type Code
Bottom Trawl Type Code	61	2	Bytes	A2	Use File 023 Bottom Trawl Gear Code
Blank	63	18	Bytes	18X	

RECORD FORMAT DESCRIPTION

Species Catch Record (Marine Fish Pathology)

NAME	15. POSITION FROM -1 MEASURED IN Bytes (Oct, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '013'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '3'
Cruise Number	11	2	Bytes	A2	Analogous to NODC Station Number
Haul or Set Number	13	3	Bytes	A3	
Taxonomic Code	16	10	Bytes	5A2	To species level
Total Weight of Species	26	8	Bytes	I8	Total weight of one species for a haul in kilograms to hundredths
Weight Determination	34	1	Bytes	A1	1) Total catch of species weighed 2) Prorated on basis of sub- sample 3) Rough estimate
Total Number	35	6	Bytes	I6	Total number of one species in a haul
Number Determination	41	1	Bytes	A1	1) Actual count 2) Prorated on basis of subsample 3) Rough estimate 4) Volumetric estimation 5) Rough estimate of a few hundred 6) Rough estimate of a few thousand
Sex Maturity Code	42	1	Bytes	A1	
Group Age	43	1	Bytes	A1	Predominant age of group. Use Life History Code
Weight of Sub-sample	44	5	Bytes	I5	Kilograms to hundredths
Number in Sub-sample	49	3	Bytes	I3	
Sex Code	52	1	Bytes	A1	
Number Examined	53	3	Bytes	I3	
Disease Code	56	1	Bytes	A1	Use File 013 Disease Code

RECORD FORMAT DESCRIPTION

1-1

Species Catch Record, cont'd (Marine Fish Pathology)

NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Individuals Affected	57	2	Bytes	I2	
Disease Code	59	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	60	2	Bytes	I2	
Disease Code	62	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	63	2	Bytes	I2	
Disease Code	65	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	66	2	Bytes	I2	
Disease Code	68	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	69	2	Bytes	I2	
Blank	71	10	Bytes	10X	

RECORD FORMAT DESCRIPTION

7-22-10

Individual Record (Marine Fish Pathology)

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 '013'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '4'
Cruise Number	11	2	Bytes	A2	Analogous to MODC Station Number
Pool or Set Number	13	3	Bytes	A3	
Specimen Number	16	4	Bytes	A4	Originator's internal number
Taxonomic Code	20	10	Bytes	5A2	
Sex Code	30	1	Bytes	A1	
Sex Maturity Code	31	1	Bytes	A1	
Length of Individual	32	4	Bytes	I4	Whole millimeters
Length Code	36	1	Bytes	A1	
Weight of Individual	37	6	Bytes	I6	Whole grams
Weight Determination	43	1	Bytes	I6	1) Observed weight of specimen 2) Calculated weight of specimen
Age	44	2	Bytes	I2	Whole years
Age Structure	46	1	Bytes	A1	Use Age Method Code
Disease Code	47	1	Bytes	A1	Use File 013 Disease Code
Frequency	48	1	Bytes	A1	
Disease Code	49	1	Bytes	A1	Use File 013 Disease Code
Frequency	50	1	Bytes	A1	
Disease Code	51	1	Bytes	A1	Use File 013 Disease Code
Frequency	52	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

7-21 10

Individual Record, cont'd (Marine Fish Pathology)

14. NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., 515, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
General Health Code	53	1	Bytes	A1	Use File 013 General Health Code
Pigmentation Code	54	1	Bytes	A1	Use File 013 Pigmentation Code
Lesion #1,					
Lesion Location Code	55	2	Bytes	A2	Use File 013 Lesion Location Code
Length of Lesion	57	2	Bytes	I2	In millimeters
Width of Lesion	59	2	Bytes	I2	In millimeters
					The above three fields are repeated on this and the next record type
Lesion #2	61	6	Bytes	A2,2I2	
Lesion #3	67	6	Bytes	A2,2I2	
Lesion #4	73	6	Bytes	A2,2I2	
Blank	79	2	Bytes	2X	

RECORD FORMAT DESCRIPTION

NAME Supplementary Lesion Record (Optional) (Marine Fish Pathology)

10. NAME	15. POSITION FROM - 1 MEASURED IN Bytes (o.f., b/s, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '013'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '5'
Cruise Number	11	2	Bytes	A2	} Analogous to NODC Station Number
Haul or Set Number	13	3	Bytes	A3	
Specimen Number	16	4	Bytes	A4	Originator's internal number
Lesion #5 thru Lesion #14	20	10x6	Bytes	10(A2,2I2)	See record type 4
Blank	80	1	Bytes	1X	

Job No.	Case Name	PL	Task No.	Date
	035 ASHBY	NL	R71208	05/23/77
Reel No.	Drum No.	Drum	Drum	Drum
01	003/119 1909	#	#	#
Track	Tap	Storage Location	Packed	Original
7.2	Reel		SGR/SIMPLY/ASCH	SGR/SIMPLY/ASCH
Data Description				
76-1874 OCSEAP FISH PATH (O)				
Remarks: Special Exhibits/Title and Name				
NMFS file type 013 (TR0905-9) (origtap = FC1874)				
Ver. No.	Level	Dir. File	Release Authorized by	Date Released
009539	80	1		

NOAA Form 4729
(4-73)

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

Job No.	Case Name	PL	Task No.	Date
	035 ASHBY	NL	R71208	05/23/77
Reel No.	Drum No.	Drum	Drum	Drum
01	003/119 1909	#	#	#
Track	Tap	Storage Location	Packed	Original
7.2	Reel		SGR/SIMPLY/ASCH	SGR/SIMPLY/ASCH
Data Description				
76-1874 OCSEAP FISH PATH (O/C)				
Remarks: Special Exhibits/Title and Name				
XXXX NMFS file type 013 (TR0905-9)				
Ver. No.	Level	Dir. File	Release Authorized by	Date Released
009767	80	50		

NOAA Form 4729
(4-73)

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

Job No.	Case Name	PL	Task No.	Date
	035 ASHBY	SL	R71208	06/03/77
Reel No.	Drum No.	Drum	Drum	Drum
01	003/119 1909	#	#	#
Track	Tap	Storage Location	Packed	Original
7.2	Reel		SGR/SIMPLY/ASCH	SGR/SIMPLY/ASCH
Data Description				
76-1874 OCSEAP FISH PATH (U)				
Remarks: Special Exhibits/Title and Name				
DSN = TR0905 NMFS file type 013 (TR0905-9)				
Ver. No.	Level	Dir. File	Release Authorized by	Date Released
001625	80	60		

NOAA Form 4729
(4-73)

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

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

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

Five distinct record types: (1) File Header; (2) Station Header; (3) Species Type; (4) Individual; and (5) supplementary Lesion differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

One physical file with five file identifiers (TR0905thru TR0909) sorted by station number and record type within each station..

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1☐ ALGOL☐ COBOL☒ FORTRAN☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

Pete Topoly

4-7505

NAME AND PHONE NUMBER

ADDRESS DSF&I Branch

D752

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) VOL=SER=001625 LABEL=(1,SL) DSN = TR0905 LRECL=80 BLKSIZE=4800
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES 4800
	13. LENGTH OF BYTES IN BITS

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	NL	R71208	05/23/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
76-1874 OCSEAP FISH PATH (O)				
Remarks/Special Entries/Title/Job Name				
NMFS file type 013 (TR0905-9) (origtap = FC1874)				
Vol-Ser-	LRECL	Blk. Fact.	Release Authorized by	Date Released
009539	80	1		

NOAA Form 47-29
(4-73)

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

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	NL	R71208	05/23/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
76-1874 OCSEAP FISH PATH (O/C)				
Remarks/Special Entries/Title/Job Name				
EXNXX NMFS file type 013 (TR0905-9)				
Vol-Ser-	LRECL	Blk. Fact.	Release Authorized by	Date Released
009767	80	50		

NOAA Form 47-29
(4-73)

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

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	SL	R71208	06/03/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
76-1874 OCSEAP FISH PATH (U)				
Remarks/Special Entries/Title/Job Name				
DSN = TR0905 NMFS file type 013 (TR0905-9)				
Vol-Ser-	LRECL	Blk. Fact.	Release Authorized by	Date Released
001625	80	60		

NOAA Form 47-29
(4-73)

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

USER TAPE

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

Five distinct record types: (1) File Header; (2) Station Header; (3) Species Type; (4) Individual; and (5) supplementary Lesion differentiated by byte 10.

One physical file with five file identifiers (TR0905thru TR0909) sorted by station number and record type within each station.

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

4. RESPONSIBLE COMPUTER SPECIALIST: Pete Topoly 4-7505
NAME AND PHONE NUMBER _____
ADDRESS DSF&I Branch D752

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" 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 checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" 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>VOL=SER=001625 LABEL=(1,SL)</p> <p>DSN = TR0905</p> <p>LRECL=80</p> <p>BLKSIZE=4800</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><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>4800</p> <p>13. LENGTH OF BYTES IN BITS</p>

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.

File Type 013 Data Structure

- The PI has included redundant data records (record 3s converted to 7s) for most stations. One record contains total weights and numbers for one species (sex field is blank). Supplementary records contain the number for each sex and any disease data - weight for the subsamples by sex are not included. Not all records with weights and numbers have subsets by sex. Counts of the subsamples when added together should equal the total count for each species. The number examined also may be a subset of the total number collected for each species, particularly when the total number is large. In these cases, the number determination generally is based on a prorate of the subsample (code of 2) rather than exact count (code of 1).

Jim Audet

File 023 Bottom Type Code

- 01 - Mud
- 02 - Green mud
- 03 - Grey mud and sand

- 10 - Grey mud
- 11 - Grey clay
- 12 - Mud and clay
- 13 - Grey mud and clay
- 14 - Mud, clay, and sand

- 30 - Green mud and sand
- 31 - Mud and sand
- 32 - Mud and clay-pipes (worm tubes)
- 33 - Green mud -- black sand

- 48 - Green sand and mud
- 49 - Grey sand and worm tubes
- 50 - Green sand
- 51 - Sandy
- 52 - Grey sand
- 53 - Green sand and clay
- 54 - Black sand
- 55 - Grey sand, mud, gravel
- 56 - Green sand, mud, stones
- 57 - Green sand, mud, gravel
- 58 - Green sand, gravel or pebbles
- 59 - Gravel and sand
- 60 - Rock and mud
- 61 - Gravel and mud
- 62 - Rocky
- 63 - Gravel
- 64 - Gravel and shell
- 65 - Rocky and gravel
- 66 - Green sand and shell
- 67 - Stones and sand
- 68 - Stones
- 69 - Stones and gravel
- 70 - Hard clay with sand and mud
- 71 - Clay and rock
- 72 - Hard clay
- 73 - Hard clay and rock
- 74 - Hard
- 75 - Rock and grey mud
- 76 - Gravel and grey mud
- 77 - Blue-grey mud and sand
- 78 - Rock, green sand
- 79 - Blue mud

83 - Coral and grey mud
84 - Coral, green sand
85 - Coral, gravel and grey mud
86 - Coral and stones

90 - Shells, rocks
91 - Shells, grey mud and sand
95 - Boulders

File 023 Gear Type Codes

- 10 - Purse seines, ringnets, etc.
- 11 - Purse seine with power block
- 12 - Lampara
- 13 - Beach Seine

- 20 - Gillnets
- 21 - Drift gillnet
- 22 - Towed gillnet
- 23 - Set gillnet

- 30 - Bottom trawls
- 31 - Otter trawl
- 32 - Pair trawl
- 33 - Danish seine
- 34 - Beam trawl
- 35 - Shrimp trawl

- 40 - Midwater trawls
- 41 - Isaacs-Kidd trawl
- 42 - Bongo Net
- 43 - Herring trawl

- 50 - Surface trawls
- 51 - Towner
- 52 - Two-vessel operated towner
- 53 - Single-vessel operated towner
- 54 - Plankton-larvae net

- 60 - Pelagic longline
- 61 - Surface longline
- 62 - Midwater longline

- 70 - Bottomset longline

- 80 - Setnets, reef nets, traps
- 81 - Trammel net

- 90 - Trolls, handlines, etc.
- 91 - Troll
- 92 - Handlines
- 93 - Dipnets, hand-held
- 94 - Liftnets

File 023 Bottom Trawl Gear Code

- 00 - Modified eastern trawl with 94' footrope and 70' headrope; 5 1/2" mesh (#42) in wings and body, 3 1/2" mesh (#60) in intermediate, and 3 1/2" mesh (#96) in codend; 21 floats (8" diam.) on headrope; chain and rubber discs on footrope.
- 01 - Same as 00 but no chain on footrope
- 05 - Modified eastern trawl with 111' footrope; 5 1/2" mesh web in wings and body, 3 1/4 " web in intermediate, and 3" mesh web in codend; 21 floats - 18 of 8" diam. and 3 of 10" diam.
- 06 - Same as 05 but with roller gear.
- 10 - Norwegian trawl.
- 11 - Same as 10 but with roller gear.
- 20 - 400 mesh eastern fish trawl with 94' footrope and 71' headrope; 4" mesh (#36) in wings, square and belly, 3 1/2 " mesh (#60) in intermediate, and 3 1/2" mesh (#96) in codend, 11 to 15 (deep-sea) floats (8" diam.) on headrope.
- 30 - Mark II (modified) universal trawl with 94' footrope and 94' headrope; 5 1/2" (#36) mesh in wings and forward sections, 2 1/2" (#36) mesh in after sections, 3 1/2" (#96) mesh in codend; 31 floats (8" diam) on headrope.
- 22 - Same as 20 but with 21 floats.
- 23 - Same as 20 but with 21 floats and roller gear.
- 24 - Same as 20 but with 36 floats and roller gear.
- 40 - 2/3 scale Cobb pelagic trawl, 2" size multifilament web (#18) in body and 2" size multifilament web (#60) in codend, 41 floats.

Length Code

- blank - no information
- 1 - tip of snout to fork of tail
- 2 - mideye to fork of tail
- 3 - tip of snout to hypural plate
- 4 - mideye to hypural plate
- 5 - total length (extremity to extremity)
- 6 - snout to second dorsal (ratfish...)

21-12

Sex Maturity Code

blank - No information

0 - Indeterminable

1 - Immature - Gonads small (barely determine sex), apparently
has not spawned for the first time

2 - Maturing - Ovaries small to large, eggs all opaque or mixture
of opaque and transparent eggs or mostly transparent eggs,
testes swelling

3 - Spawning - Eggs and milt running

4 - Spent - Ovaries and testes flacid

5 - Sexually inactive - Adults with gonads firm and shaped

Age Method Code

- Blank - No information
- 0 - Undetermined
- 1 - Otolith reading
- 2 - Scale reading
- 3 - Otolith and scale
- 4 - Length

Sex Code

blank - No information

0 - Indeterminable

1 - Male

2 - Female

11 19 76

013

File 013 Lesion Location Code

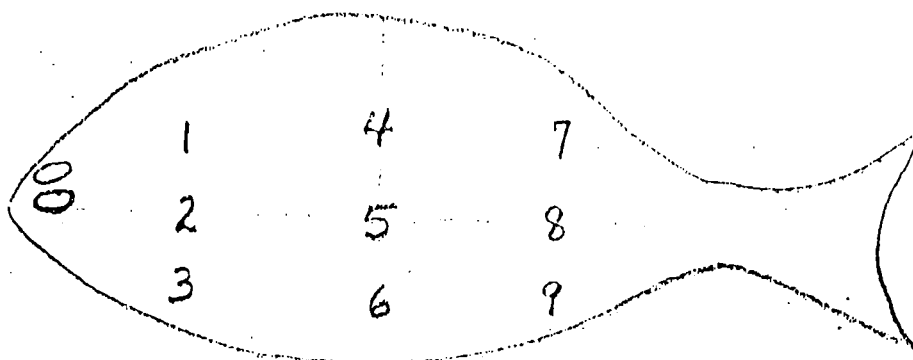
This is a two byte code; the first byte indicates the organ affected; the second byte indicates the location of the lesion

<u>Organ Byte</u>	<u>Location Byte</u>
A - Body surface	1 - Left/eyed anterodorsal body surface
B - Dorsal fin (anterior)	2 - Left/eyed anteromedial body surface
C - Dorsal fin (posterior)	3 - Left/eyed anteroventral body surface
D - Anal fin (anterior)	4 - Left/eyed middorsal body surface
E - Anal fin (posterior)	5 - Left/eyed medial body surface
F - Pectoral fin	6 - Left/eyed midventral body surface
G - Pelvic fin	7 - Left/eyed posterodorsal body surface
H - Caudal fin	8 - Left/eyed posteromedial body surface
I - Heart	9 - Left/eyed posteroventral body surface
J - Liver	A - Right/blind anterodorsal body surface
K - Spleen	B - Right/blind anteromedial body surface
L - Kidney	C - Right/blind anteroventral body surface
M - Gill filaments	D - Right/blind middorsal body surface
N - Intestine	E - Right/blind medial body surface
O - Pseudobranch	F - Right/blind midventral body surface
P - Anus/rectum	G - Right/blind posterodorsal body surface
Q - Operculum	H - Right/blind posteromedial body surface
R - Head	I - Right/blind posteroventral body surface
S - Isthmus	J - Anterodorsal body surface - both sides
T - Lips	K - Anteroventral body surface - both sides
U - Esophagus	L - Posterodorsal body surface - both sides
V - Eye	M - Posteroventral body surface - both sides
W - Pancreas	N - Left side
X - Pyloric caecae	O - Right side
Y - Ovary	P - Both sides
Z - Testes	Q - Caudal

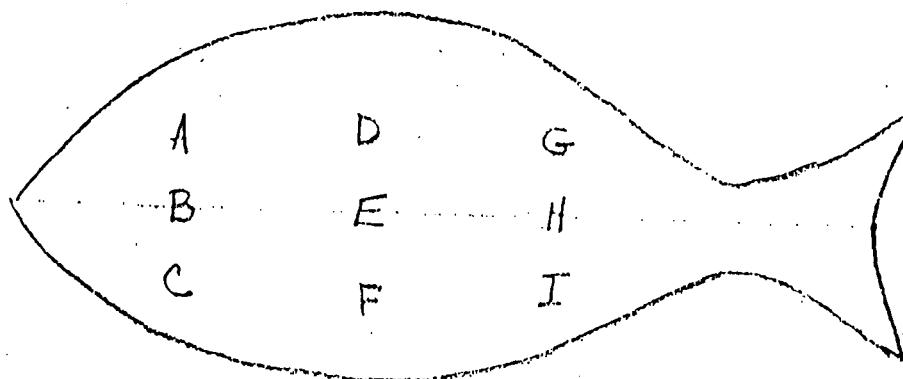
11-19-76

LOCATION CODE - BODY SURFACE - SCHEMATIC

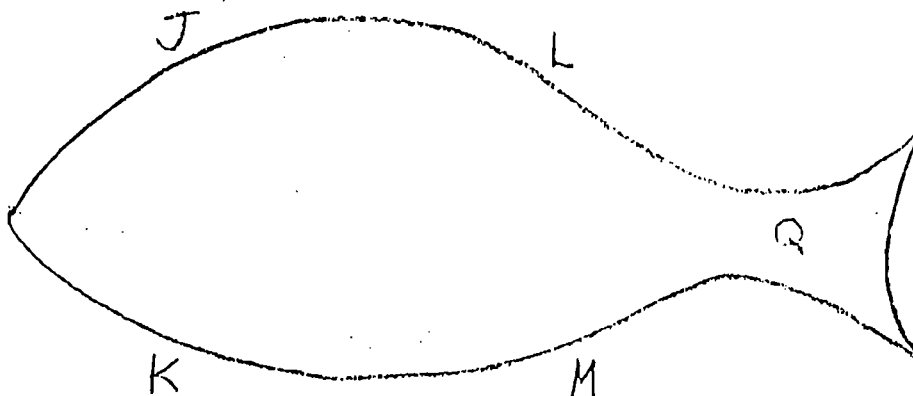
LEFT/EYED



RIGHT/BLIND



BODY SURFACE/FINS - BOTH SIDES



File 013 Disease Code

blank - no information

- 0 - Normal control
- 1 - Epidermal papilloma
- 2 - Pseudobranchial tumors
- 3 - Lymphocystis
- 4 - Skin ulceration
- 5 - Fin erosion
- 6 - Liver disease
- 7 - Large red gill parasite
- 8 - Severe internal parasitism
- 9 - Miscellaneous
- A - Small white gill parasite
- B - Necrotic gill disease
- C - White cysts in muscle
- D - Leech inside operculum

7. : . 46.

File 013 Pigmentation Code

blank - no information

1 - Normal

2 - Darker than normal

3 - Lighter than normal

File 013 General Health Code

blank - no information

1 - Normal appearing

2 - Emaciated

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7601874	F028	TR0910	0081	31A8	31DS	1976/04/07	DI76-III	301381
7601874	F028	TR0911	0081	31A8	31DS	1976/05/06	DI76-V	301382
7601874	F013	TR0905	0081	31A8	31FN	1975/09/08	MF75-II	301376
7601874	F013	TR0906	0081	31A8	31FN	1975/10/02	MF75-III	301377
7601874	F013	TR0907	0081	31A8	31FN	1976/03/24	MF76-I	301378
7601874	F013	TR0908	0081	31A8	31FN	1976/04/24	MF76-II	301379
7601874	F013	TR0909	0081	31A8	31FN	1976/05/18	MF76-III	301380

(7 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
7601874	F028	TR0910	31DS	15	251	76/04/07	76/04/13
7601874	F028	TR0911	31DS	14	216	76/05/06	76/05/09
7601874	F013	TR0905	31FN	66	436	75/09/08	75/09/29
7601874	F013	TR0906	31FN	64	455	75/10/02	75/10/24
7601874	F013	TR0907	31FN	55	1629	76/03/24	76/04/14
7601874	F013	TR0908	31FN	44	657	76/04/24	76/05/13
7601874	F013	TR0909	31FN	15	220	76/05/18	76/06/04

(7 rows affected)

FR 0910

ACCESSION
NUMBER

76-1874

DATA DOCUMENTATION FORM

Released 10-1-76
Ruffio

DDF A:2:05

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-R2651

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

RU 425

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 Jerry Larrance Pacific Marine Environmental Laboratory (NOAA) 3711 15th Ave N.E. Seattle, Wa. 98105; 442-4900 or (FTS) 399-4900			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Outer Continental Shelf Environmental Assessment Program RU#156/164C		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT File ID # 760515 FILE TYPE 028	
4. PLATFORM NAME(S) NOAA Ship DISCOVERER (3) RP 4DI76A Leg III	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR U.S.A. U.S.A.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 04/07/76 04/13/76
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Lower Cook Inlet, Alaska, USA. 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) Patricia Ruffio (FTS) 399-4903 or 206-442-4903			

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
1. Taxonomic Group	10-digit OCSEAP numerical code	Zeiss Inverted Microscope (Invertoscope D")	Utermöhl Inverted Microscope Technique (SCOR-UNESCO guidelines)	N/A.
2. Sample Count	Number of cells counted	"	"	"
3. Cells/liter	Cells/liter	"	"	"

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

Two record types are employed

1. Master Record (type 1) and
2. Detail record (type 3)

Record types are differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

All data is submitted on keypunched cards. Data consists of a single Master Record and several Detail Records per Niskin Cast.

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1☐ ALGOL☐ COBOL☒ FORTRAN☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Patricia A. Ruffio 442-4903ADDRESS 3711 15th AVE N.E. SEATTLE, WA 98105

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

RECORD FORMAT DESCRIPTION

2-70-76

RECORD NAME MASTER RECORD Phytoplankton Species

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (c.p., blts, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '028'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
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	
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31	2	Bytes	I2	Last two digits of year
Month	33	2	Bytes	I2	1-12
Day	35	2	Bytes	I2	1-31
Hour	37	2	Bytes	I2	0-23
Minutes	39	2	Bytes	I2	0-59
Time Zone	41	1	Bytes	A1	Always '+' or '-'
Time Zone	42	2	Bytes	A2	01-12
Depth to Bottom	44	5	Bytes	I5	To whole meters
Blank	49	32	Bytes	32X	

RECORD FORMAT DESCRIPTION

RECORD NAME DETAIL RECORD) Phytoplankton Species

14. FIELD NAME	15. POSITION FROM 1 MEASURED IN Bytes	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '028'
File Identifier	4	6	Bytes	A6	
Record	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	Originator's internal use
Sample Depth	20	4	Bytes	I4	In tenths of meters
Taxonomic Code	24	10	Bytes	I10	
Blank	34	3	Bytes	3X	
Count	37	5	Bytes	I5	Of species identified in previous field
Number of Cells/Liter	42	9	Bytes	I9	Of species identified in previous field
Wet Weight	51	7	Bytes	I7	To thousandths of grams
Dry Weight	58	7	Bytes	I7	To thousandths of grams
Volume of Water Filtered	65	5	Bytes	I5	Whole milliliters
Blank	70	8	Bytes	8X	
Sequence Number	78	3	Bytes	I3	Ascending numeric order for sorting*

* The Sequence Number may be used to structure the data in such a way that the Text Record could precede or follow the corresponding taxonomic code on the Detail Record. An example would be two organisms named on two Text Records with Sequence Numbers of '002' and '004' and corresponding Detail Records with Sequence Numbers of '001' and '003' (NOTE: The Sequence Number need not be a consecutive number, but a number that is ascending numerically.) If the data were to be sorted, within a station, by Sequence Number, the Master Record (blanks in bytes 78-80) would be first followed by Detail Record '001', Text Record '002', Detail Record '003' and Text Record '004'.

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 (✓)	
2 Zeiss Invertro- scope D" Inverted Microscopes	6-16-76	✓					✓	✓	
							when moved		

02874051530002406240100000002410	000040000000020	003
02874051530002406240100000002407	000040000000020	003
02874051530002406240100000000000	000020000000020	003
028740515300024062401000000002205	000020000000020	003
02874051530002406240100000000000	000020000000020	003
028740515300024062401000000002001	000020000000020	003
02874051530002406240100000000000	000020000000020	003
028740515300024062401000000002420	000020000000020	003
028740515300024062401000000001908	000030000000030	003
028740515300024062401000000001000	000010000000010	003
02874051530002406240100000000000	000010000000010	003
02874051530000305090000000000000	000140000000234	003
02874051530000305090000000000000	000020000000113	003
02874051530000305090000000000000	000050000000084	003
02874051530000305090000000000000	000040000000067	003
02874051530000305090000000000000	000050000000100	003
02874051530000305090000000000000	000020000000033	003
02874051530000305090000000000000	000020000000023	003
02874051530000305090000000000000	000020000000020	003
02874051530000305090000000000000	000010000000010	003
028740515300004051601000000004405	0000200000003920	003
028740515300004051601000000000000	000060000000240	003
028740515300004051601000000002405	000040000000160	003
028740515300004051601000000003101	000030000000120	003
028740515300004051601000000000300	000010000000040	003
028740515300004051601000000005009	000010000000040	003
028740515300004051601000000002410	000010000000040	003
028740515300054060901100000007205	003710000024709	005
028740515300054060901100000000000	001550000020646	005
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028740515300054060901100000005108	000440000002930	005
028740515300054060901100000007205	001120000007459	005
028740515300054060901100000007101	000090000000599	005
028740515300054060901100000007200	000220000001465	005
028740515300054060901100000007501	000160000001066	005
028740515300054060901100000007208	000050000000400	005
028740515300054060901100000000000	000010000000067	005
028740515300054060901100000000000	000020000000133	005
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0287405153000540536010000000007209	000720000000720	005
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0287405153000540536010000000007208	000190000000190	003
0287405153000540536010000000004403	000060000000060	003
0287405153000540536010000000001900	000040000000040	003
0287405153000540536010000000000000	000050000000050	003
0287405153000540536010000000007210	000040000000040	003
0287405153000540536010000000000000	000020000000020	003
0287405153000540536010000000000000	000020000000020	003
02874051530005405360100000000064501	000060000000060	003
0287405153000540536010000000002418	000010000000010	003
0287405153000540536010000000002400	000010000000010	003
028740515300008061801000000001908	000380000003800	004
0287405153000080618010000000007208	000140000001400	004
0287405153000080618010000000007200	000170000001700	004
0287405153000080618010000000007101	000080000000800	004
0287405153000080618010000000002405	000030000000300	004
0287405153000080618010000000002407	000010000000100	004
0287405153000080618010000000000000	000010000000100	004
0287405153000070635010000000007206	000090000000297	004
0287405153000070635010000000007206	000080000000266	004
0287405153000070635010000000007101	000040000000133	004
0287405153000070635010000000007209	000070000000234	004
0287405153000070635010000000005108	000030000000100	004
0287405153000070635010000000007200	000030000000100	004

[illegible]

CKW Audet if
RCUP-

TR0911

ACCESSION
NUMBER

76-1874

DATA DOCUMENTATION FORM

Released 10-1-76

Luffio

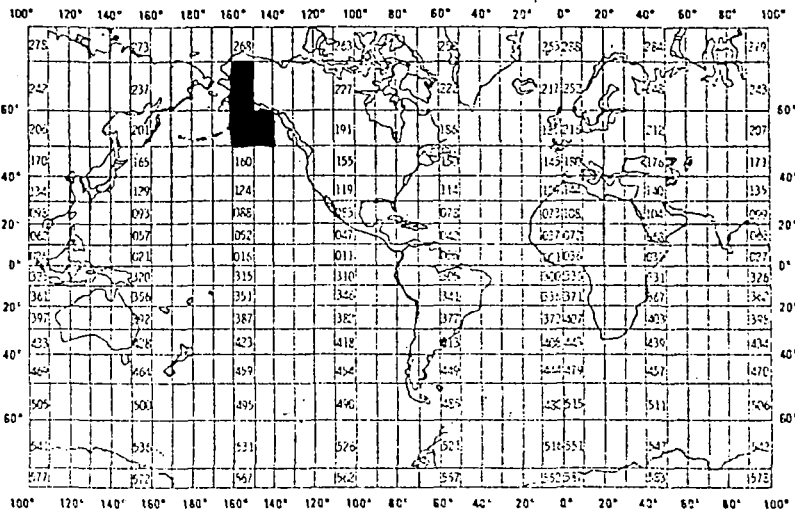
NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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

RU 425

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 Jerry Larrance Pacific Marine Environmental Laboratory 3711 15th Ave. N.E., Seattle, WA 98105 206-442-4900 or (FTS) 399-4900			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Outer Continental Shelf Environmental Assessment Program RU#156/164C		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT File ID# 760701 FILE TYPE 028	
4. PLATFORM NAME(S) NOAA Ship "DISCOVERER" RP4DI76A Leg V	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR U.S.A. U.S.A.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 05/06/76 05/09/76
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Lower Cook Inlet, Alaska, USA. 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) Patricia A. Ruffio 442-4903 or (FTS) 399-4903			

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
1. Taxonomic Group	10-digit OCSEAP numerical code	Zeiss "Invertroscope D" Inverted Microscopes	Utermohl Inverted Microscope Techniques (Using SCOR-UNESCO guidelines)	N/A
2. Sample Count	Number of cells counted	"	"	"
3. Cells per liter	Cells/liter	"	"	"

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

Two record types are employed

- 1) Master Record (type 1)
- 2) Detail Record (type 3)

Record types are differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

All data is submitted on keypunch cards. Data is grouped by station and consists of a single Master Record and several Detail Records per Diskin bottle cast.

3. ATTRIBUTES AS EXPRESSED IN

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS 3711 15th Ave NE., Seattle WA 98105

Patricia A. Ruffio 442-4903

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 checked="" 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 checked="" 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 checked="" 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> </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 checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p> </p> <p>13. LENGTH OF BYTES IN BITS</p> <p> </p>

RECORD FORMAT DESCRIPTION

2-20-70

RECORD NAME MASTER RECORD Phytoplankton Species

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 '028'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
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	
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31	2	Bytes	I2	Last two digits of year
Month	33	2	Bytes	I2	1-12
Day	35	2	Bytes	I2	1-31
Hour	37	2	Bytes	I2	0-23
Minutes	39	2	Bytes	I2	0-59
Time Zone	41	1	Bytes	A1	Always '+' or '-'
Time Zone	42	2	Bytes	A2	01-12
Depth to Bottom	44	5	Bytes	I5	To whole meters
Blank	49	32	Bytes	32X	

GMT

RECORD FORMAT DESCRIPTION

4

RECORD NAME (DETAIL RECORD) Phytoplankton Species

14. FIELD NAME	15. POSITION FROM 1 MEASURED IN Bytes (e.g., 51st, 1st-3rd)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEASURES
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '028'
File Identifier	4	6	Bytes	A6	
Record	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	Originator's internal use
Sample Depth	20	4	Bytes	I4	In tenths of meters
Taxonomic Code	24	10	Bytes	I10	
Blank	34	3	Bytes	3X	
Count	37	5	Bytes	I5	Of species identified in previous field
Number of Cells/Liter	42	9	Bytes	I9	Of species identified in previous field
Wet Weight	51	7	Bytes	I7	To thousandths of grams
Dry Weight	58	7	Bytes	I7	To thousandths of grams
Volume of Water Filtered	65	5	Bytes	I5	Whole milliliters
Blank	70	8	Bytes	8X	
Sequence Number	78	3	Bytes	I3	Ascending numeric order for sorting*

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D. INSTRUMENT CALIBRATION

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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 (✓)	
2 Zeiss Invertroscope D Inverted Microscopes	6-16-76	✓				when moved	✓	✓	

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7601874	F028	TR0910	0081	31A8	31DS	1976/04/07	DI76-III	301381
7601874	F028	TR0911	0081	31A8	31DS	1976/05/06	DI76-V	301382
7601874	F013	TR0905	0081	31A8	31FN	1975/09/08	MF75-II	301376
7601874	F013	TR0906	0081	31A8	31FN	1975/10/02	MF75-III	301377
7601874	F013	TR0907	0081	31A8	31FN	1976/03/24	MF76-I	301378
7601874	F013	TR0908	0081	31A8	31FN	1976/04/24	MF76-II	301379
7601874	F013	TR0909	0081	31A8	31FN	1976/05/18	MF76-III	301380

(7 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7601874	F028	TR0910	31DS	15	251	76/04/07	76/04/13
7601874	F028	TR0911	31DS	14	216	76/05/06	76/05/09
7601874	F013	TR0905	31FN	67	436	75/09/08	75/09/29
7601874	F013	TR0906	31FN	66	455	75/10/02	75/10/24
7601874	F013	TR0907	31FN	57	1629	76/03/24	76/04/14
7601874	F013	TR0908	31FN	44	657	76/04/24	76/05/13
7601874	F013	TR0909	31FN	16	220	76/05/18	76/06/04

(7 rows affected)