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## DATA DOCUMENTATION FORM

TR 1706

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

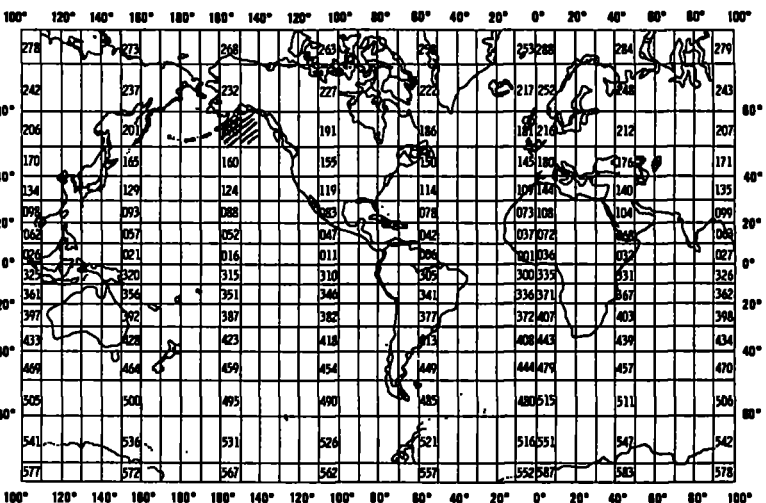
FO13

NEGOA

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

## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>Northwest and Alaska Fisheries Center (NAFAC)</i> <i>2725 Montlake Blvd E.</i> <i>Seattle, WA. 98102</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>OCSEAP</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>03</i> <i>File ID 760327</i>	
4. PLATFORM NAME(S) <i>Miller</i> <i>Freeman</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR <i>US US</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>1/27/77 2/10/77</i>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <i>KODIAK</i> <i>GENERAL AREA</i>	
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 checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Dr. Bruce McCain</i> <i>NAFAC</i> <i>Seattle, WA. 98102</i> <i>206-442-4806</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	$\phi$ 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
(1) Taxonomic Code	OCEAN code	visual	NA	NA
(2) Total weight of species	Kg to 0.01	pressure scale	NA	NA
(3) Total number	units	counted or extrap. by weight	NA	NA
(4) weight of subsample	Kg to 0.01	pressure scale	NA	NA
(5) number in sample	units	count	NA	NA
(6) " examined	"	count	NA	NA
(7) Disease code	see format code	NA visual	NA	NA
(8) Individ. affected	"	visual	NA	NA
(9) Haul #	units	sequential	NA	NA
(10) Lat. + Longit.	Deg-Min-Sec.	Satellite system	?	?
(11) Date GMT	yr./mo./Day	NA	NA	NA
(12) Time GMT	Hr/Min	clock	NA	NA
(13) Duration of fishing	Hr to 0.1	clock	NA	NA
(14) Distance fished	Km to 0.1	Logan	NA	NA
(15) Surface + Gear temp.	C to 0.1°	XBT	NA	NA
(16) Ave. Depth of Bottom during tow	meters	Sonar	NA	NA
(17) Bottom trawl type	see format code	NA	NA	NA
(18) Specimen #	alphanumeric	NA	NA	NA
(19) Length of indiv.	mm	measuring board	NA	NA
(20) weight of indiv.	grams	balance scale	NA	NA
(21) Age	otolith scale	reading machine	agreement checks	agreement checks
(22) Lesion Location	Disease Code	visual/histology/EM	NA	NA
(a) Length	mm	calipers	NA	NA
(b) width	mm	"	NA	NA

## 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:

Individual Specimen Record File type 013, type 4  
Station Header Record " " " " type 2  
Species Catch Record " " " " type 3  
File Header " " " " type 1  
Suppl. Lesion Record " " " " type 5

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></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>_____</p>	
<p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>	

# RECORD FORMAT DESCRIPTION

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

FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>See previous submissions to your office (Jensen) and record format alterations submitted by Dean Dale (PMEL), Sandpoint Laboratory, Seattle Washington to your office.</p> <p>NOTE: OLD ALASKAN TAXONOMIC CODES USED.</p>					

**RECORD NAME**NOAA FORM 24-18



# RECORD FORMAT DESCRIPTION

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

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 <i>(e.g., bits, bytes)</i>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

# RECORD FORMAT DESCRIPTION

RECORD NAME

77-0662

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
TR1706				(1)	CRUISE 03 AND HAUL 022 TAX CODE CHANGED FROM 29 09020701 to 79 09020701

## 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

NO NAME - File Header Record (Marine Fish Pathology)

4. 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 '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

WORD NAME Station Header Record (Marine Fish Pathology)

1. 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 '2'
Cruise Number	11	2	Bytes	A2	Analogous to NODC Station Number
Trawl 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

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

1. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Water Temperature at Gear Level	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	

## NO NAME Species Catch Record (Marine Fish Pathology)

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 '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 subsample 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	Predominant sex
Number Examined	53	3	Bytes	I3	
Disease Code	56	1	Bytes	A1	Use File 013 Disease Code



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

14. FIELD 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	Number of individuals
Disease Code	59	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	60	2	Bytes	I2	Number of individuals
Disease Code	62	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	63	2	Bytes	I2	Number of individuals
Disease Code	65	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	66	2	Bytes	I2	Number of individuals
Disease Code	68	1	Bytes	A1	Use File 013 Disease Code
Individuals Affected	69	2	Bytes	I2	Number of individuals
Blank	71	10	Bytes	10X	

## RECORD FORMAT DESCRIPTION

NO NAME 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 NODC Station Number
haul 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

NO NAME Individual Record, cont'd (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		
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, 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	
Link	79	2	Bytes	2X	

# RECORD FORMAT DESCRIPTION

NAME Supplementary Lesion Record (Optional) (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 '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	

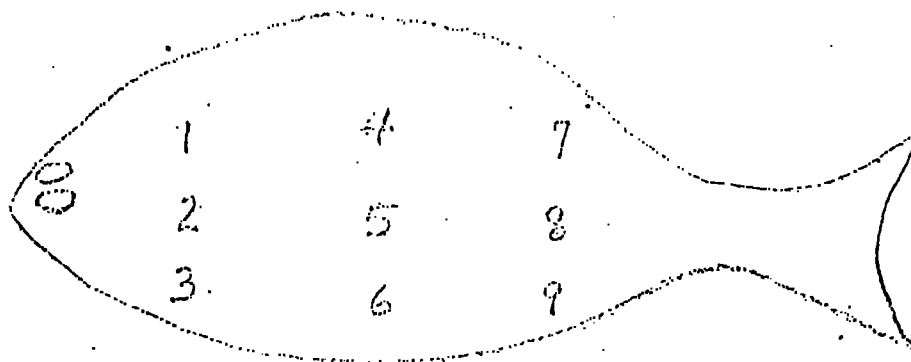
# File 013 Lesion Location Code

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

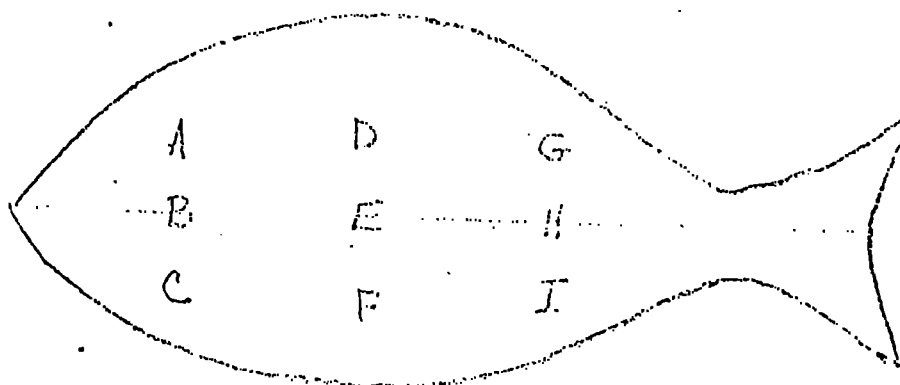
<u>Organ Byte</u>	<u>Location Byte</u>
A - Body surface	1 - Left/eyed anterodorsal body surface
B - Dorsal fin (anterior)	2 - Left/eyed anteromedial body surface
C - Dorsal fin (posterior)	3 - Left/eyed anteroventral body surface
D - Anal fin (anterior)	4 - Left/eyed middorsal body surface
E - Anal fin (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	
X - Pyloric caecae	
Y - Ovary	
Z - Testes	

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

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

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...)

Sex Determination

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 small;

3 - Spawning - Eggs are still running

4 - Spent - Ovaries and testes flaccid

5 - Sexually inactive - Adults with gonads firm and shapely

Measurement

- Blank - no ink on line
- 0 - Transmitted
- 1 - Width reading
- 2 - Scale reading
- 3 - Width and scale
- 4 - Length



Sex Code

blank - No information

0 - Indeterminable

1 - Male

2 - Female

## Life History Code

- blank - No information
- 0 - Indeterminable
- 1 - Egg
- 2 - Nauplius
- 3 - Zoca.
- 4 - Megalop
- 5 - Veliger
- 6 - Larva
- 7 - Juvenile
- 8 - Adult
- 9 - Combination of 6, 7, and 8
- A - Combination of 7 and 8
- B - Combination of 6 and 7
- C - Juvenile/adult - sexual maturity unknown

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7700662	F013	TR1706	0081	31A8	31FN	1977/01/27	760327	304884

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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7700662	F013	TR1706	31FN	33	427	77/01/27	77/02/10

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