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DATA DOCUMENTATION FORM

NUMBER 16-168
 BF0301 TR0516
 BF0302 TR0517
 BF0303 TR0518

NOAA FORM 24-13
 (4-72)

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

FORM APPROVED
 O.M.B. No. 41-K2651

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 Northwest Fisheries Center Resource Assessment and Conservation Engineering Division National Marine Fisheries Service 2725 Montlake Blvd. East, Seattle, Washington 98112					
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCSEAP - R. U. #175		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT FILE I.D. "75EBSB"			
4. PLATFORM NAME(S) Anna Marie 32AY- BF0301 TR0516 Pat San Marie 32PT- BF0302 TR0517 Miller Freeman 31FM- BF0303 TR0518 Ships	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)			
		PLATFORM	OPERATOR	7. DATES	
		U. S.	U. S.	FROM: MO/DAY/YR 08/07/75	TO: MO/DAY/YR 10/20/75
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. Eastern 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) Richard Bakkala FTS 8-399-7703 or 206-442-7703					

Job. No.	User Name 035 (Ashby)	PL S	Task No.	Date 12/2/76
Reel No. 1 of 1	Density 200/ 556,800/ (800)	Drive #	Mast. Reel #	
Track 7A	Tape New/Used	Storage M M M M	Packed M M	Decimal/EBCDIC/ BINARY/ASCII
Data Description 76-1681 FISH RES. Assess (BKup to Orig)				
Remarks/Special Entries/Title/Job Name DSN = FISHRES				
Vol. Ser. 10278	LRECL 104	Blk. Fact. 4160	Release Authorized by	Date Released

NOAA Form 47-29 (4-73) U. S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADM.

Job. No.	User Name 035 (Ashby)	PL N	Task No.	Date 10/15/76
Reel No. 1 of 1	Density 200/ 556,800/ (800)	Drive #	Mast. Reel #	
Track 7A	Tape New/Used	Storage M M M M	Packed M M	Decimal/EBCDIC/ BINARY/ASCII
Data Description 76-1681 OCSEAP FISH RES. Assess (Orig)				
Remarks/Special Entries/Title/Job Name 9654				
Vol. Ser. E135875	LRECL 104	Blk. Fact. 4160	Release Authorized by	Date Released

NOAA Form 47-29 (4-73) U. S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADM.

Job. No.	User Name 035 (Ashby)	PL S	Task No.	Date 11/24/77
Reel No. 01	Density 200/ 556,800/ (600)	Drive #	Mast. Reel #	
Track 7A	Tape New/Used	Storage M M M M	Packed M M	Decimal/EBCDIC/ BINARY/ASCII
Data Description 76-1681 OCSEAP FISH RES. Assess (FINAL)				
Remarks/Special Entries/Title/Job Name BKup				
DSN = FISHRES				
Vol. Ser. 11242	LRECL 104	Blk. Fact. 4160	Release Authorized by	Date Released

NOAA Form 47-29 (4-73) U. S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADM.

April 19, 1977 The field 'File Identifier' (4 for b)
on each record type was replaced with the
correct track number for each corresponding cruise.

BIO 301 → TR0516

BIO 302 → TR0517

BIO 303 → TR0518

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

Total number of Records = 123,040
(LAST 11 Records ARE blank)
Total number of Record Type '6' = 73,157
(Number of individuals)
654 MASTER RECORDS (STA.)

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

ORIGINATOR TAPE: 9 TRK, VOL=SER=EBS075, NL,
104 x 40, FB
COPY OF ORIGINATOR: VOL=SER=010278, SL, 9TRK,
DSN=FISHRES FB, 104 x 40
BKup to ORIGINATOR copy: VOL=SER=01242
(EXACT COPY OF 010278)

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

← NOTE

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 <input 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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>VOL=SER= 010278 DSN= FISHRES</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>4160</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

023 6/28/76

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

Seven distinct record types: Haul (1); Trawl Gear (2);
Miscellaneous Gear (3); Species Catch (4); Length-Frequency (5);
Individual Biological (6); and Prey (7) differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Get all count of
extra RT '6' for
in DDF information
of individuals (counts)

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>

RECORD FORMAT DESCRIPTION

RECORD NAME Haul Record (Fish Resource Assessment)

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 '023'
File Identifier	4	6	Bytes	A6	File Creation Date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '1'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
Number of Hauls	20	4	Bytes	I4	Total number of hauls for this station (from 1 to 9999).
INPFC Area (Optional)	24	5	Bytes	A5	Enter International North Pacific Fishing Commission Area Code (originator's internal code)
Latitude,					
Degrees	29	2	Bytes	I2	If data are summarized, position is noon or average
Minutes	31	2	Bytes	I2	
Seconds	33	2	Bytes	I2	
Hemisphere	35	1	Bytes	A1	Enter 'N' or 'S'
Longitude,					
Degrees	36	3	Bytes	I3	If data are summarized, position is noon or average
Minutes	39	2	Bytes	I2	
Seconds	41	2	Bytes	I2	
Hemisphere	43	1	Bytes	A1	Enter 'E' or 'W'

RECORD FORMAT DESCRIPTION

RECORD NAME Haul, continued (Fish Resource Assessment)

1. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Date - in GMT					
Year	44	2	Bytes	I2	00-99 If data are summarized by month, date should reflect the year and month for the majority of observations. Similarly, including day, if summarized by day.
Month	46	2	Bytes	I2	1-12
Day	48	2	Bytes	I2	1-31
Time - in GMT					
Hour	50	2	Bytes	I2	0-23 Blank if data are summarized
Minute	52	2	Bytes	I2	0-59
Gear Type Code	54	2	Bytes	A2	Use File 023 Gear Type Code
Duration of Fishing (optional)	56	3	Bytes	I3	Hours to tenths
Distance Fished (optional)	59	3	Bytes	I3	Kilometers to tenths
Direction of Tow (optional)	62	1	Bytes	A1	Use Compass Direction Code
Performance Code (optional)	63	1	Bytes	A1	Use File 023 Performance Code
Surface Temperature (optional)	64	3	Bytes	A3	Degrees and tenths Celsius, if negative, enter minus sign adjacent and to the left of the temperature value
Gear Temperature (optional)	67	3	Bytes	A3	(same as above)
Average Depth of Bottom during Tow (optional)	70	4	Bytes	I4	Depth in meters
Bottom Type (optional)	74	2	Bytes	A2	Use File 023 Bottom Type Code

RECORD FORMAT DESCRIPTION

RECORD NAME Haul, continued (Fish Resource Assessment)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Sounding Record	76	1	Bytes	A1	Blank - No information 1 - Echogram 2 - Echogram and photo 3 - Echogram and tape 4 - Depth from chart 5 - Depth estimated
Bottom Trawl Type	77	2	Bytes	A2	Use File 023 Bottom Trawl Gear Code
Bottom Trawl Accessories	79	2	Bytes	A2	Use File 023 Bottom Trawl Gear Accessories Code
Bottom Trawl Warp or Scope Length	81	4	Bytes	I4	Warp or scope length in meters. If Record 2 is used, enter warp or scope in that record and leave this field blank.
Air Temperature (Optional)	85	4	Bytes	I4	Degrees to tenths Celsius, if negative, enter minus sign adjacent and to the left of the temperature value
Present Present Weather (optional)	89	1	Bytes	A1	WMO Code 4501
Cloud Amount (optional)	90	1	Bytes	A1	WMO Code 2700
Sea State (optional)	91	1	Bytes	A1	WMO Code 3700
Wind Direction (optional)	92	1	Bytes	A1	Use Compass Direction Code
Wind Force (optional)	93	1	Bytes	A1	Use Beaufort Wind Force Code (0 thru 9)
Current Direction	94	1	Bytes	A1	Use Compass Direction Code
Current Force	95	2	Bytes	I2	Current magnitude in meters to tenths per second
Record Modifier	97	3	Bytes	A3	'Y' in byte 97 indicates average over a day 'Z' in byte 97 indicates average over a month The number of days used in average is entered on bytes 98 and 99. This field is blank for single observation
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

RECORD NAME Trawl Gear Record (Fish Resource Assessment)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Note: When Record Type 2 is used, Record Type 3 is not used and vice versa.					
File Type	1	3	Bytes	A3	Always '023'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '2'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code. File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
Gear Type Code	20	2	Bytes	A2	File 023 Gear Type Code
^{opening} Opening Height of Trawl	22	3	Bytes	I3	In meters to tenths
Opening Width of Trawl	25	3	Bytes	I3	In meters to tenths
Overall Length of Trawl	28	3	Bytes	I3	In meters
Codend Length	31	2	Bytes	I2	In meters
Foot Rope Length	33	2	Bytes	I2	In meters
Head Rope Length	35	2	Bytes	I2	In meters
Gear Material Code	37	1	Bytes	A1	Use File 023 Gear Material Code
Opening Mesh	38	1	Bytes	A1	Use File 023 Mesh Code
Average Body Mesh	39	1	Bytes	A1	Use File 023 Mesh Code
Codend Mesh	40	1	Bytes	A1	Use File 023 Mesh Code
Codend Liner	41	1	Bytes	A1	Blank - unknown 0 = no, 1 = yes
Number of Floats	42	2	Bytes	I2	
Float Diameter	44	2	Bytes	I2	In centimeters

RECORD FORMAT DESCRIPTION

RECORD NAME Trawl Gear Record, continued (Fish Resource Assessment)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0, 1, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Tickler	46	1	Bytes	A1	Blank - unknown 0 = no, 1 = yes
Roller Gear	47	1	Bytes	A1	Same as above
Length of Bridles	48	3	Bytes	I3	In meters
Length of Doors	51	2	Bytes	I2	In meters to tenths
Width of Doors	53	2	Bytes	I2	In meters to tenths
Warp Length	55	4	Bytes	I4	In meters
Depth of Gear	59	4	Bytes	I4	In meters
Blank	63	34	Bytes	34X	
Record Modifier	97	3	Bytes	A3	'Y' in byte 97 indicates average over a day 'Z' in byte 97 indicates average over a month The number of days used in average is entered on bytes 98 and 99. This field is blank for single observation.
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

RECORD NAME Miscellaneous Gear Record. (optional) (Fish Resource Assessment)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Note: When Record Type 3 is used, Record Type 2 is not used and vice versa					
File Type	1	3	Bytes	A3	Always '023'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number.
Record Type	10	1	Bytes	I1	Always '3'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	
Haul or Set Number	17	3	Bytes	A3	Analogous to NODC Station Number
Gear Type Code	20	2	Bytes	A2	Use File 023 Gear Type Code
Bit Length	22	4	Bytes	I4	Overall length, length/skate, length/shackle, etc. in meters
Net Depth	26	2	Bytes	I2	Depth of gillnet shackles or seine in meters
Number of Units	28	2	Bytes	I2	Number of skates, shackles, troll lines, handlines, etc.
Gangion Length	30	2	Bytes	I2	In meters to tenths
Number of Subunits	32	2	Bytes	I2	Number of gangion/skate, hooks/line, etc.
Gear Material Code	34	1	Bytes	A1	Use File 023 Gear Material Code (except for gillnets)
Bait-Lure Code	35	2	Bytes	A2	Byte 35: 0 = bait, 1 = lure Byte 36: 1 = plastic lure 2 = plastic with feathers
Seine, Towing End Mesh	37	1	Bytes	A1	Use File 023 Mesh Code
Seine, Upper Mesh	38	1	Bytes	A1	Use File 023 Mesh Code

RECORD FORMAT DESCRIPTION

RECORD NAME Miscellaneous Gear Record (optional), continued (Fish Resource Assessment)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0.4, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Seine, Average Body Mesh	39	1	Bytes	A1	Use File 023 Mesh Code
Seine, Bunt Mesh	40	1	Bytes	A1	Use File 023 Mesh Code
First Gillnet, Number of Shackles	41	2	Bytes	I2	Number of gillnet shackles
Material	43	1	Bytes	A1	Use File 023 Gear Material Code
Mesh	44	1	Bytes	A1	Use File 023 Mesh Code
Second Gillnet, Number of Shackles	45	2	Bytes	I2	Gillnet information in positions 41 through 44 can be repeated up to six times. Positions not required should be left blank.
Material	47	1	Bytes	A1	
Mesh	48	1	Bytes	A1	
THIRD Gillnet, Number of Shackles	49	2	Bytes	I2	
Material	51	1	Bytes	A1	
Mesh	52	1	Bytes	A1	
Fourth Gillnet, Number of Shackles	53	2	Bytes	I2	
Material	55	1	Bytes	A1	
Mesh	56	1	Bytes	A1	
Fifth Gillnet, Number of Shackles	57	2	Bytes	I2	
Material	59	1	Bytes	A1	
Mesh	60	1	Bytes	A1	

RECORD NAME Miscellaneous Gear Record (optional), continued (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Sixth Gillnet, Number of Shackles	61	2	Bytes	I2	
Material	63	1	Bytes	A1	
Mesh	64	1	Bytes	A1	
Depth of Gear	65	4	Bytes	I4	In meters.
Blanks	69	28	Bytes	28X	
Record Modifier	97	3	Bytes	A3	'Y' in byte 97 indicates average over a day 'Z' in byte 97 indicates average over a month The number of days used in average is entered on bytes 98 and 99. This field is blank for single observation.
<i>Sequence</i> Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD NAME Species Catch Record - (Fish Resource Assessment)

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 '023'
File Identifier	4	6	Bytes	A6	File Creation Date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '4'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
Sample Number	20	4	Bytes	A4	
Taxonomic Code	24	10	Bytes	5A2	To species level
Total Weight of Species	34	8	Bytes	I8	Total weight of one species for a haul in kilograms to hundredths
Weight Determination (optional if total weight of species not given)	42	1	Bytes	A1	1 - Total catch of species weighed 2 - Prorated on basis of subsample 3 - Rough estimate
Total Number	43	6	Bytes	I6	Total number of one species in a haul
Number Determination (optional if total number not given)	49	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 (optional)	50	1	Bytes	A1	Average or predominate maturity
Life History Code (Optional)	51	1	Bytes	A1	Average age or predominate ^{mt} age of group
Number of Species Examined (optional)	52	4	Bytes	I4	Number of species examined in a haul-relates to Record Types 5 and/or 6
Blanks	56	41	Bytes	41X	

RECORD FORMAT DESCRIPTION

RECORD NAME Species Catch Record, continued (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Record Modifier	97	3	Bytes	A3	'Y' in byte 97 indicates average over a day 'Z' in byte 97 indicates average over a month The number of days used in average is entered on bytes 98 and 99. This field is blank for single observation
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD NAME Length-Frequency Record (optional) (Fish Resource Assessment)

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 '023'
File Identifier	4	6	Bytes	A6	File creation data (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '5'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
Sample Number	20	4	Bytes	A4	
✓ Taxonomic Code	24	10	Bytes	5A2	Taxonomic Code to species level
Sex Code	34	1	Bytes	A1	
Length of Class (optional)	35	4	Bytes	I4	In whole millimeters
Length Code (optional)	39	1	Bytes	A1	
Length Frequency (optional)	40	4	Bytes	I4	Number of individuals in the length class
Length Sample (optional)	44	1	Bytes	A1	Length-frequency determination 2 = entire catch 4 = subset of catch
Blanks	45	52	Bytes	52X	
Record Modifier	97	3	Bytes	A3	'Y' in byte 97 indicates average over a day 'Z' in byte 97 indicates average over a month The number of days used in a average is entered on bytes 98 and 99. This field is blank for single observation
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

RECORD NAME Individual Biological Record (optional) (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (o.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '023'
File Identifier	4	6	Bytes	A6	File creation date (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '6'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC station number
Haul or Set Number	17	3	Bytes	A3	
Sample Number	20	4	Bytes	A4	
Taxonomic Code	24	10	Bytes	5A2	To species level
Sex Code	34	1	Bytes	A1	
Sex Maturity Code (optional)	35	1	Bytes	A1	
Length of Individual (optional)	36	4	Bytes	I4	In whole millimeters
Length Code (optional)	40	1	Bytes	A1	
Weight of Individual (optional)	41	6	Bytes	I6	In grams
Weight Determination (optional)	47	1	Bytes	A1	1 - Observed weight of specimen 2 - Calculated weight of specimen
Age	48	2	Bytes	I2	Age of specimen in years
Age Structure	50	1	Bytes	A1	Use Age Method Code
Age Determination	51	1	Bytes	A1	1 - Observed age 2 - Calculated age
Sample Type	52	1	Bytes	A1	1 - Random sample 2 - Size stratified 3 - Random stratified

count
CT-6

RECORD FORMAT DESCRIPTION

RECORD NAME Individual Biological Record (optional), continued (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Data Type Code	53	1	Bytes	A1	Use File 023 Data Type Code
Stomach Examined	54	1	Bytes	A1	Use Decision Code
Gut Collected	55	1	Bytes	A1	Use Decision Code
Fin Clip Code	56	2	Bytes	A2	ØØ - No clips ØA - Adipose RV - Right Ventral LV - Left Ventral RP - Right Pectoral LP - Left Pectoral ØC - Caudal
Blanks	58	42	Bytes	42X	
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

RECORD NAME Prey Record (Fish Resource Assessment)

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 '023'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '7'
Agency Code	11	2	Bytes	A2	Originator's internal code File 023
Vessel Code	13	2	Bytes	A2	Originator's internal code File 023
Cruise Number	15	2	Bytes	A2	Analogous to NODC station number
Haul or Set Number	17	3	Bytes	A3	
Sample Number	20	4	Bytes	A4	
Taxonomic Code, Predator	24	10	Bytes	5A2	To species level
Taxonomic Code, Prey	34	10	Bytes	5A2	To species level
Number of Prey Individuals	44	5	Bytes	I5	Whole number
Volume of Prey	49	5	Bytes	I5	Milliliter to tenths
Organ Code	54	1	Bytes	A1	Where prey are found 1 - Stomach 2 - Intestine
Stomach Fullness Code	55	1	Bytes	A1	
Blank	56	44	Bytes	44X	
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

7/1/76

File 023 Gear Material Code

- 0 - Monofilament Nylon
- 1 - Multifilament (braided) Nylon
- 2 - Multifilament (braided) Cotton
- 3 - Synthetic, various
- 4 - Silk
- 5 - Manila

FISH RESOURCE ASSESSMENT

D2

HAUL
 TRAWL GEAR
 MISCELLANEOUS GEAR

FILE TYPE	FILE IDENTIFIER	RECORD TYPE	AGENCY CODE	VESSEL CODE	CRUISE NUMBER	HAUL OR SET NUMBER	NUMBER OF HAULS	INPEC AREA	LATITUDE			LONGITUDE			DATE (GMT)			TIME (GMT)		GEAR CODE	DURATION OF FISHING (HOUR TO %)	DISTANCE FISHED (KM. TO %)	DIRECTION OF TOW	SURFACE TEMPERATURE	GEAR TEMPERATURE	AVG. DEPTH OF BOTTOM DURING TOW (M)	BOTTOM TRAWL WARP OR SCOPE LENGTH (M)	AIR TEMPERATURE (°C)	CURRENT SPEED (KNOTS)	WIND DIRECTION	WIND FORCE	CURRENT (M. TO %)	RECORD NUMBER	SEQUENCE NUMBER		
									DEG	MIN	SEC	N	DEG	MIN	SEC	E	YR	MO	DY																HR	MIN
'023'																																				
'023'																																				
'023'																																				

PUNCH CARD TRANSCRIPT

AF FORM 1530 PREVIOUS EDITIONS ARE OBSOLETE

FISH RESOURCE ASSESSMENT

6-28-76

SPECIES CATCH	FILE TYPE	FILE IDENTIFIER	AGENCY TYPE	AGENCY CODE	VESSEL NUMBER	CURTAIN NUMBER	HAUL OR SET NUMBER	SAMPLE NUMBER	TAXONOMIC CODE	TOTAL WEIGHT OF SPECIES (KG. TO 1/100)	WEIGHT NUMBER	TOTAL NUMBER	NO. OF SPECIES	NUMBER OF SPECIES EXAMINED	BLANK		SEQUENCE NUMBER	
	'023'																	
LENGTH-FREQUENCY	FILE TYPE	FILE IDENTIFIER	AGENCY TYPE	AGENCY CODE	VESSEL NUMBER	CURTAIN NUMBER	HAUL OR SET NUMBER	SAMPLE NUMBER	TAXONOMIC CODE	LENGTH OF CLASS (MM)	LENGTH FREQUENCY	BLANK						SEQUENCE NUMBER
	'023'																	
INDIVIDUAL-BIOLOGICAL	FILE TYPE	FILE IDENTIFIER	AGENCY TYPE	AGENCY CODE	VESSEL NUMBER	CURTAIN NUMBER	HAUL OR SET NUMBER	SAMPLE NUMBER	TAXONOMIC CODE	SEX CODE	SEX MATURITY	LENGTH OF INDIVIDUAL (MM)	WEIGHT OF INDIVIDUAL (GM)	AGE	AGE DETERMINATION	BLANK		SEQUENCE NUMBER
	'023'																	

PUNCH CARD TRANSCRIPT

1550

File 023 Mesh Code

0	-	0-0.99"	(0-25mm)
1	-	1.0-1.99"	(25.4-50.5mm)
2	-	2.0-2.99"	(51-76mm)
3	-	3.0-3.99"	(76.2-101.4mm)
4	-	4.0-4.99"	(101.6-126.8mm)
5	-	5.0-5.99"	(127-152.2mm)
6	-	6.0-6.99"	(152.4-177.5mm)
7	-	7.0-7.99"	(177.8-203mm)
8	-	8.0-8.99"	(203.2-228.4)
9	-	9.0"++	(228.6-
A	-	0-1mm	
B	-	1-4mm	

Compass Direction Code

blank - No information

0 - Calm (Stationary)

1 - N 337.5° to 22.5°

2 - NE 22.5° to 67.5°

3 - E 67.5° to 112.5°

4 - SE 112.5° to 157.5°

5 - S 157.5° to 202.5°

6 - SW 202.5° to 247.5°

7 - W 247.5° to 292.5°

8 - NW 292.5° to 337.5°

9.- Multiple directions (confused)

A - Directly overhead

Stomach Fullness Code

- blank - No information
- 1 - Empty
- 2 - Trace of prey organisms
- 3 - 25% full
- 4 - 50% full
- 5 - 75% full
- 6 - 100% or full
- 7 - distended

Age Method Code

3-31-76

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

Life History Code

- blank - No information
- 0 - Indeterminable
- 1 - Egg
- 2 - Nauplius
- 3 - Zoea
- 4 - Megalóp
- 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

File 023 Data Type Code

- 1 - Length/Frequency
- 2 - Length/Weight
- 3 - Length/Age
- 4 - Length/Weight/Age
- 5 - Stomach Content
- 6 - Length/Age/Maturity
- 7 - Length/Age/Frequency
- 8 - Length/Age/Weight/Stomach/Maturity
- 9 - Length/Age/Weight/Maturity
- A - Length/Weight/ Stomach/Maturity
- B - Length/Weight/Maturity
- C - Length/Stomach/Maturity
- D - Length/Age/Stomach/Maturity
- E - Length/Maturity
- F - Length/Weight/Stomach

3-21-76

Decision Code

blank - No information

Y - Yes

N - No

File 023
VESSEL CODE
(Originator's International Code)

Right adjusted with blank to left

A. - California Rose
B. - Bertha Ann
BB. - Brown Bear
C. - Commander
D. - Pioneer
F. - Mitkof
H. - Harmony
K. - George B. Kelez
L. - Celtic
M. - Marine View
N. - Attu
O. - Ocean Pride
P. - Paragon
R. - Renown
RN. - Resolution
S. - St. Michael
SY. - Sockeye
T. - Malka
U. - Windward
VQ. - Viking Queen
X. - Storm

02 - Cobb
04 - Commando
14 - Oregon
16 - Mark I
17 - Anna Marie
18 - North Pacific
19 - Pat San Marie
20 - Tordenskjold
21 - Miller Freeman
22 - Pacific Raider

N4 - Nuisance 4
ØS - Oshoro Maru

File 023
AGENCY CODE
(Originator's Internal Code)

- 10 - NOAA, NMFS
 - 11 - NWFC Seattle
 - 12 - Auke Bay
 - 13 - Foreign vessels observer Japan
 - 14 - Foreign vessels observer USSR
-
- 20 - State Agencies
 - 21 - ADFG
-
- 30 - Universities
 - 31 - U. of Washington, FRI
 - 32 - U. of Hokkaido, Suisangakubu
-
- 40 - Fisheries Research Board of Canada
 - 41 - Nanaimo Biological Station
-
- 50 - Japan, Far Seas Fisheries Agency
-
- 60 - USSR

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 townet
- 53 - Single-vessel operated townet
- 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

2-50-14

TABLE 26

Cloud Amount

WMO Code 2700 for recording cloud amount

Code

0	0	0
1	1 okta or less, but not zero	$\frac{1}{10}$ or less, but not zero
2	2 oktas	$\frac{2}{10} - \frac{3}{10}$
3	3 oktas	$\frac{4}{10}$
4	4 oktas	$\frac{5}{10}$
5	5 oktas	$\frac{6}{10}$
6	6 oktas	$\frac{7}{10} - \frac{8}{10}$
7	7 oktas or more, but not 8 oktas	$\frac{9}{10}$ or more, but not $\frac{10}{10}$
8	8 oktas	$\frac{10}{10}$
9	Sky obscured, or cloud amount cannot be estimated	

TABLE 21

Present Weather

WMO Code 4501 for recording present weather

Code
figure

- 0 Clear (no cloud at any level)
- 1 Partly cloudy (scattered or broken)
- 2 Continuous layer(s) of cloud(s)
- 3 Sandstorm, duststorm, or blowing snow
- 4 Fog, thick dust or haze
- 5 Drizzle
- 6 Rain
- 7 Snow, or rain and snow mixed
- 8 Shower(s)
- 9 Thunderstorm(s)

TABLE 17

Wind Force

Conversion from knots, meters per second, kilometers per hour, and miles per hour to the Beaufort wind scale

CODE	DESCRIPTIVE TERM	VELOCITY EQUIVALENT AT A STANDARD HEIGHT OF 10 METERS ABOVE OPEN FLAT GROUND			
		mean velocity in knots	meters/sec	km/h	m.p.h.
0	Calm	< 1	0 - 0.2	< 1	< 1
1	Light air	1 - 3	0.3 - 1.5	1 - 5	1 - 3
2	Light breeze	4 - 6	1.6 - 3.3	6 - 11	4 - 7
3	Gentle breeze	7 - 10	3.4 - 5.4	12 - 19	8 - 12
4	Moderate breeze	11 - 16	5.5 - 7.9	20 - 28	13 - 18
5	Fresh breeze	17 - 21	8.0 - 10.7	29 - 38	19 - 24
6	Strong breeze	22 - 27	10.8 - 13.8	39 - 49	25 - 31
7	Near gale	28 - 33	13.9 - 17.1	50 - 61	32 - 38
8	Gale	34 - 40	17.2 - 20.7	62 - 74	39 - 46
9	Strong gale	41 - 47	20.8 - 24.4	75 - 88	47 - 54
10	Storm	48 - 55	24.5 - 28.4	89 - 102	55 - 63
11	Violent storm	56 - 63	28.5 - 32.6	103 - 117	64 - 72
12	Hurricane	64 - 71	32.7 - 36.9	118 - 133	73 - 82
13	—	72 - 80	37.0 - 41.4	134 - 149	83 - 92
14	—	81 - 89	41.5 - 46.1	150 - 166	93 - 103
15	—	90 - 99	46.2 - 50.9	167 - 183	104 - 114
16	—	100 - 108	51.0 - 56.0	184 - 201	115 - 125
17	—	109 - 118	56.1 - 61.2	202 - 220	126 - 136

TABLE 12

Sea State

WMO Code 3700 for Recording Sea State

Description	Height (†)		Code
	Feet*	Meters	
Calm-glassy	0	0	0
Calm-rippled	0 - 1/3	0 - 0.1	1
Smooth-wavelet	1/3 - 1 2/3	0.1 - 0.5	2
Slight	1 2/3 - 4	0.5 - 1.25	3
Moderate	4 - 8	1.25 - 2.5	4
Rough	8 - 13	2.5 - 4	5
Very rough	13 - 20	4 - 6	6
High	20 - 30	6 - 9	7
Very high	30 - 45	9 - 14	8
Phenomenal	> 45	> 14	9

(†) The average wave height as obtained from the larger well-formed waves of the wave system being observed.

* The exact bounding height is to be assigned for the lower code figure, e.g. a height of 4 meters is coded as 5.

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

Sex Code

blank - No information

0 - Indeterminable

1 - Male

2 - Female

3-21-76

File 023 Bottom Trawl Gear Accessories Code

- 00 - 6'x9' steel V-doors; two 15-fathom bridles from each wing joined to a single 30-fathom bridle; 18" extension on lower wing.
- 01 - Same as 00 but with 1 1/4" mesh liner in codend.
- 05 - 6'x9' aluminum V-doors, 30-fathom bridles, 1 1/4" mesh liner in codend.
- 07 - 6'x9' aluminum V-doors, 20-fathom bridles.
- 08 - 6'x9' aluminum V-doors, 20-fathom bridles, 1 1/4 mesh liner in codend.
- 10 - 5'x7' steel V-doors; two 20-fathom bridles from each wing
- 11 - 5'x7' steel V-doors; three 30-fathom bridles from each wing
- 12 - Same as 10 but with 1 1/4 mesh liner in codend.
- 13 - Same as 11 but with 1 1/4 mesh liner in codend
- 20 - 5'x7' steel V-door; two 30-fathom bridles from each wing
- 30 - 6'x9' steel V-doors with Norwegian trawl bridle (1 1/4" liner) arrangement.
- 31 - Same as 30 but with 1 1/4" mesh liner in codend.

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

3-31-71

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.

File 023 Performance Code

- 0 - Satisfactory
- 1 - Satisfactory in spite of gear problems; snarling, bottom gear hung up, etc.
- 2 - Catch affected by predators
- 5 - Unsatisfactory
- 6 - Unsatisfactory; gear problems, snarling, bottom gear hung up, etc.
- 7 - Unsatisfactory; gear damage
- 8 - Unsatisfactory; mechanical failures.

Length Type 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...)

HAUL RECORD - TYPE 1 (FISH RESOURCE ASSESSMENT)

FIELD NAME *****	POSITION FROM 1 IN BYTES *****	LENGTH IN BYTES *****	ATTRI- BUTES *****	USE AND MEANING *****
FILE TYPE	1	3	A3	'023'
FILE IDENTIFIER	4	6	A6	'75EBS'
RECORD TYPE	10	1	I1	'1'
AGENCY CODE	11	2	A2	'11'
VESSEL CODE	13	2	A2	'21'=MILLER FREEMAN '17'=ANNA MARIE '19'=PAT SAN MARIE
CRUISE NUMBER	15	2	A2	'01'
HAUL NUMBER	17	3	A3	
BLANKS	20	9	A9	
LATITUDE, DEGREES	29	2	I2	
MINUTES	31	2	I2	
SECONDS	33	2	I2	'00'
HEMISPHERE	35	1	A1	'N'
LONGITUDE, DEGREES	36	3	I3	
MINUTES	39	2	I2	
SECONDS	41	2	I2	'00'
HEMISPHERE	43	1	A1	'W'
DATE, IN GMT YEAR	44	2	I2	'75'
MONTH	46	2	I2	'08'-'10'
DAY	48	2	I2	
TIME, GMT HOUR	50	2	I2	
MINUTE	52	2	I2	'00'
GEAR TYPE CODE	54	2	A2	'31'-OTTER TRAWL
DURATION OF FISHING	56	3	I3	HOURS TO TENTHS
DISTANCE FISHED	59	3	I3	KILOMETERS TO TENTHS

HAUL RECORD - TYPE 1, CONTINUED.

FIELD NAME	POSITION FROM 1 IN BYTES	LENGTH IN BYTES	ATTRIBUTES	USE AND MEANING
*****	*****	*****	*****	*****
BLANK	62	1	A1	
PERFORMANCE CODE	63	1	A1	'0'=SATISFACTORY '6'=UNSATISFACTORY, GEAR PROBLEMS, SNARLING, BOTTOM GEAR HUNG UP, ETC. '7'=UNSATISFACTORY, GEAR DAMAGE
SURFACE TEMPERATURE	64	3	A3	DEGREES AND TENTHS, CELSIUS. IF NEGATIVE, FLOATING - SIGN.
GEAR TEMPERATURE	67	3	A3	(SAME AS ABOVE)
AVERAGE DEPTH OF BOTTOM DURING TOW	70	4	I4	DEPTH IN METERS
BOTTOM TYPE	74	2	A2	'01'=MUD '02'=GREEN MUD '03'=GREY MUD AND SAND '10'=GREY MUD '12'=MUD AND CLAY '31'=MUD AND SAND '51'=SANDY '52'=GREY SAND '59'=GRAVEL AND SAND '60'=ROCK AND MUD '74'=HARD '75'=ROCK AND GREY MUD '91'=SHELLS, GREY MUD AND SAND ' '=NO INFORMATION
SOUNDING RECORD	76	1	A1	BLANK = NO INFORMATION '1'=ECHOGRAM
BOTTOM TRAWL TYPE	77	2	A2	'21'=EASTERN TRAWL, 112 FT. FOOT-ROPE, 83 FT. HEADROPE. 4 IN. MESH (NO. 48) IN WINGS AND BODY, 3-1/2 IN. MESH (NO. 96) IN INTERMEDIATE, 3-1/2 IN. MESH (NO. 96) IN CODEND, 41 FLOATS (8 IN. DIA.) ON HEADROPE

HAUL RECORD - TYPE 1, CONTINUED.

FIELD NAME	POSITION FROM 1 IN BYTES	LENGTH IN BYTES	ATTRI- BUTES	USE AND MEANING
***** BOTTOM TRAWL ACCESSORIES	***** 79	***** 2	***** A2	***** '03'=6 X 9 FOOT STEEL V-DOORS, TWO 25-FATHOM BRIDLES, 1-1/4 IN. MESH LINER IN CODEND. '32'=7 X 10 FOOT STEEL V-DOORS, 25-FATHOM DOUBLE DANDYLINES, 12-FATHOM SINGLE, AND 1-1/4 IN. MESH LINER IN CODEND.
BOTTOM TRAWL SCOPE	81	4	I4	SCOPE LENGTH IN METERS
BLANK	85	5	5X	
CLOUD AMOUNT	90	1	A1	'0'=CLEAR '1'=1 OKTA OR LESS, BUT NOT 0 '2'=2 OKTAS '3'=3 OKTAS '4'=4 OKTAS '5'=5 OKTAS '6'=6 OKTAS '7'=7 OKTAS OR MORE, BUT NOT 8. '8'=8 OKTAS '9'=SKY OBSCURED, OR CLOUD AMOUNT NOT ESTIMATED.
BLANK	91	9	9X	
SEQUENCE NUMBER	100	5	I5	ASCENDING NUMERIC, SORTING ON VESSEL (MAJOR), HAUL NUMBER, AND SEQUENCE NUMBER RESTORES ORIGINAL ORDER OF FILE. PADDING RECORDS AT END OF LAST BLOCK CONTAIN NO SEQUENCE NUMBER.

SPECIES CATCH RECORD - TYPE 4 (FISH RESOURCE ASSESSMENT)

FIELD NAME	POSITION FROM 1 IN BYTES	LENGTH IN BYTES	ATTRIBUTES	USE AND MEANING
*****	*****	*****	*****	*****
FILE TYPE	1	3	A3	'023'
FILE IDENTIFIER	4	6	A6	'75EBS'
RECORD TYPE	10	1	A1	'4'
AGENCY CODE	11	2	A2	'11'
VESSEL CODE	13	2	A2	'21'=MILLER FREEMAN '17'=ANNA MARIE '19'=PAT SAN MARIE
CRUISE NUMBER	15	2	A2	'01'
HAUL NUMBER	17	3	A3	
BLANK	20	4	4X	
TAXONOMIC CODE	24	10	5A2	UNIV. OF ALASKA CODES. MAY HAVE TRAILING BLANKS. THERE MAY BE DUPLICATE TAXONOMIC CODES WITHIN THE SAME HAUL, E. G., FOR UNIDENTIFIED CATCH CLASSIFIED AT THE GENUS, OR HIGHER, LEVEL.
TOTAL WEIGHT OF SPECIES	34	8	I8	TOTAL WEIGHT IN KILOGRAMS TO HUNDRETHS.
BLANK	42	1	1X	
TOTAL NUMBER	43	6	I6	NUMBER OF SPECIES 0=NUMBERS NOT COUNTED
BLANK	49	51	51X	
SEQUENCE NUMBER	100	5	I5	ASCENDING NUMERIC.

LENGTH-FREQUENCY RECORD - TYPE 5 (FISH RESOURCE ASSESSMENT)

FIELD NAME	POSITION FROM 1 IN BYTES	LENGTH IN BYTES	ATTRIBUTES	USE AND MEANING
*****	*****	*****	*****	*****
FILE TYPE	1	3	A3	'023'
FILE IDENTIFIER	4	6	A6	'75EBS'
RECORD TYPE	10	1	A1	'5'
AGENCY CODE	11	2	A2	'11'
VESSEL CODE	13	2	A2	'21'=MILLER FREEMAN '17'=ANNA MARIE '19'=PAT SAN MARIE
CRUISE NUMBER	15	2	A2	'01'
HAUL NUMBER	17	3	A3	
BLANK	20	4	4X	
TAXONOMIC CODE	24	10	5A2	UNIV. OF ALASKA CODES. MAY HAVE TRAILING BLANKS.
SEX CODE	34	1	A1	'1'=MALE '2'=FEMALE '0'=UNSEXED
LENGTH OF CLASS	35	4	I4	LENGTH IN MILLIMETERS
LENGTH CODE	39	1	A1	'1'=TIP OF SNOUT TO FORK OF TAIL '7'=LENGTH OF CARAPACE FROM BACK OF RIGHT EYE SOCKET TO END OF CARAPACE.
LENGTH FREQUENCY	40	4	I4	NUMBER OF INDIVIDUALS IN THE LENGTH CLASS
BLANK	44	56	56X	
SEQUENCE NUMBER	100	5	I5	ASCENDING NUMERIC.

INDIVIDUAL BIOLOGICAL RECORD - TYPE 6 (FISH RESOURCE ASSESSMENT)

FIELD NAME	POSITION FROM 1	LENGTH IN BYTES	ATTRIBUTES	USE AND MEANING
*****	*****	*****	*****	*****
FILE TYPE	1	3	A3	'023'
FILE IDENTIFIER	4	6	A6	'75EBS'
RECORD TYPE	10	1	A1	'6'
AGENCY CODE	11	2	A2	'11'
VESSEL CODE	13	2	A2	'21'=MILLER FREEMAN '17'=ANNA MARIE '19'=PAT SAN MARIE
CRUISE NUMBER	15	2	A2	'01'
HAUL NUMBER	17	3	A3	
BLANK	20	4	4X	
TAXONOMIC CODE	24	10	5A2	UNIV. OF ALASKA CODES. MAY HAVE TRAILING BLANKS.
SEX CODE	34	1	A1	'1'=MALE '2'=FEMALE '0'=UNSEXED
BLANK	35	1	1X	
LENGTH OF INDIVIDUAL	36	4	I4	LENGTH OF CARAPACE IN MILLIMETERS ' '=NO LENGTH MEASURED
LENGTH CODE	40	1	A1	'7'=LENGTH OF CARAPACE FROM BACK OF RIGHT EYS SOCKET TO END OF CARAPACE '8'=MAXIMUM CARAPACE WIDTH
BLANK	41	17	17X	
WIDTH	58	3	I3	CARAPACE WIDTH IN MILLIMETERS ' '=NO WIDTH MEASURED

INDIVIDUAL BIOLOGICAL RECORD - TYPE 6, CONTINUED

FIELD NAME	POSITION FROM 1	LENGTH IN	ATTRI- BUTES	USE AND MEANING
*****	*****	*****	*****	*****
SHELL CONDITION	61	1	A1	' '=NO INFORMATION

'0'=MOLTING

'1'=CARAPACE SOFT AND PLIABLE,
BRICK RED.

'2'=CARAPACE FIRM TO HARD, CLEAN,
BRICK RED TO YELLOW BROWN ON
TOPSIDE. (GREEN COLORED CRABS ARE
SOMETIMES ENCOUNTERED IN CERTAIN
AREAS OF BRISTOL BAY). EPIFAUNA
LIMITED EXCEPT THAT LEECH CASES
MAY SOMETIMES BE PRESENT. DACTYLI
RELATIVELY SHARP. PTERYGOSTOMIAL
AND BRANCHIAL SPINES SHARP.
THORACIC STERNUM AND UNDERSIDE OF
LEGS WHITE TO YELLOWISH, WHITE
WITH NONE OR ONLY A FEW SCRATCHES.
SPINES ON MERI AND METABRANCHIAL
REGION SHARP, WELL DEFINED, NOT
ROUNDED.

'3'=CARAPACE HARD. TOPSIDE
USUALLY YELLOW TO YELLOWISH BROWN.
THORACIC STERNUM AND UNDERSIDE OF
LEGS YELLOW WITH NUMEROUS
SCRATCHES. PTERYGOSTOMIAL AND
BRANCHIAL SPINES WORN AND POLISHED
DACTYLI ON MERI AND METABRANCHIAL
REGION ROUNDED. EPIFAUNA
(BARNACLES AND LEECH CASES)
USUALLY PRESENT BUT NOT ALWAYS.

INDIVIDUAL BIOLOGICAL RECORD - TYPE 6, CONTINUED

FIELD NAME	POSITION FROM 1	LENGTH IN	ATTRIBUTES	USE AND MEANING
*****	IN BYTES	BYTES	*****	*****
SHELL CONDITION, CONTINUED				<p>*4*=CARAPACE HARD, TOPSIDE YELLOWISH-BROWN TO DARK BROWN. THORACIC STERNUM AND UNDERSIDES OF LEGS DARK YELLOW WITH MANY SCRATCHES AND DARK STAINS. PTERYGOSTOMIAL AND BRANCHIAL SPINES ROUNDED WITH TIPS SOMETIMES WORN OFF, DACTYLI VERY WORN SOMETIMES FLATTENED ON TIPS. SPINES ON MERI AND METABRANCHIAL REGION WORN SMOOTH, SOMETIMES COMPLETELY GONE. EPIFAUNA MOST ALWAYS PRESENT (LARGE BARNACLES AND BRYOZOANS).</p> <p>*5*=CONDITIONS OBSERVED IN SHELL CONDITION *4* MUCH ADVANCED. LARGE EPIFAUNA ALMOST COMPLETELY COVERS CRAB. CARAPACE IS WORN THROUGH IN METABRANCHIAL REGION, ALONG PTERYGOSTOMIAL BRANCHIAL SPINES, OR ON MERI. DACTYLI FLATTENED SOMETIMES WORN THROUGH, MOUTH PARTS AND EYES SOMETIMES NEARLY IMMOBILIZED BY BARNACLES.</p>

INDIVIDUAL BIOLOGICAL RECORD - TYPE 6, CONTINUED

FIELD NAME	POSITION FROM 1 IN BYTES	LENGTH IN BYTES	ATTRIBUTES	USE AND MEANING
*****	*****	*****	*****	*****
EGG COLOR	62	1	A1	' '=NO INFORMATION ' 2'=PURPLE ' 3'=BROWN ' 4'=ORANGE ' 5'=PURPLE-BROWN
EGG CONDITION	63	1	A1	' '=NO INFORMATION ' 1'=NOT EYED ' 2'=EYED ' 3'=DEAD ' 7'=MATURE, EGG CASES EMPTY ' 8'=MATURE, NO EGG CASES ' 9'=IMMATURE
CLUTCH SIZE	64	1	A1	' '=NO INFORMATION ' 0'=IMMATURE ' 1'=NO EGGS ' 2'=TRACE - 1/8 FULL ' 3'=1/4 FULL ' 4'=1/2 FULL ' 5'=3/4 FULL ' 6'=FULL ' 7'=EXTRA FULL
BLANK	65	35	35X	
SEQUENCE NUMBER	100	5	15	ASCENDING NUMERIC.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7601681	F123	TR0516	0081	31A8	32AY	1975/08/07	75EBSB	300723
7601681	F123	TR0517	0081	31A8	32P7	1975/08/07	75EBSB	300724
7601681	F123	TR0518	0081	31A8	31FN	1975/08/18	75EBSB	300725

(3 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7601681	F123	TR0516	32AY	224	42378	75/08/07	75/10/01
7601681	F123	TR0517	32P7	206	32901	75/08/07	75/10/01
7601681	F123	TR0518	31FN	219	53704	75/08/18	75/10/21

(3 rows affected)