

## DATA DOCUMENTATION FORM

TRO758-875

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

F123

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

Walter T. Pereyra, Martin O. Nelson  
NOAA; NMFS/NWFC, RACE Division  
2725 Montlake Blvd., E.  
Seattle, WA 98112

## 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

OCSEAP - RU #64/354

## 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

File: 760801

## 4. PLATFORM NAME(S)

N/A  
(see "Vessel" code)

5. PLATFORM TYPE(S)  
(E.G., SHIP, BUOY, ETC.)

Ship

6. PLATFORM AND OPERATOR  
NATIONALITY(IES)

U.S.; Can.  
Jap.

U.S.; Can.  
Jap.

## 7. DATES

FROM: MO/DAY/YR TO: MO/DAY/YR

09/21/48 02/19/76

## 8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED  
FOR GENERAL USE? YEAR MONTH

9. ARE DATA DECLARED NATIONAL  
PROGRAM (DNP)?

(I.E., SHOULD THEY BE INCLUDED IN WORLD  
DATA CENTERS HOLDINGS FOR INTERNA-  
TIONAL EXCHANGE?)

☒ NO ☐ YES ☐ PART (SPECIFY BELOW)

PERSON TO WHOM INQUIRIES CONCERNING  
DATA SHOULD BE ADDRESSED WITH TELE-  
PHONE NUMBER (AND ADDRESS IF OTHER  
THAN IN ITEM-1)

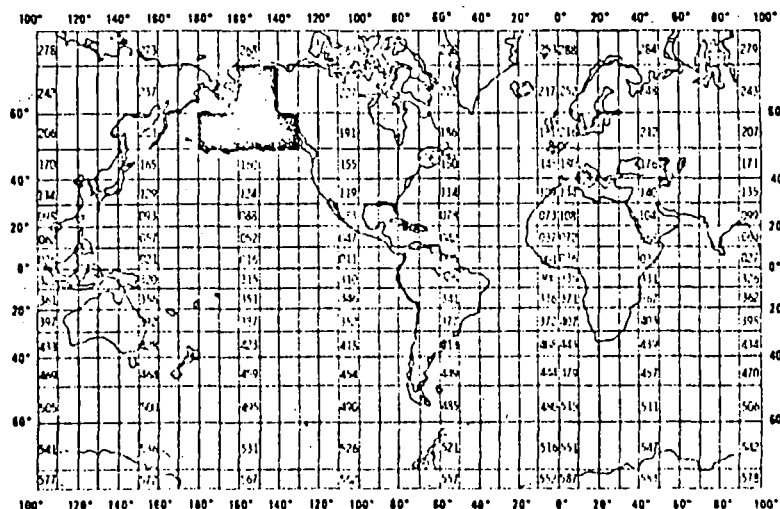
Nickolas D. Lampsakis  
8-399-7796 (FTS)

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA  
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

Gulf of Alaska: 52 N to AK coast; 135 W to 170 W

Bering Sea: Aleutian Is. to 60 N; 180 W to AK coast

GENERAL AREA



# 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
NOT APPLICABLE; SEE ATTACHED DESCRIPTION OF DATA RECORD				

# RECORD FORMAT DESCRIPTION

156-

RECORD NAME: Prey Record, 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		
Weight Method Code	72	1	Bytes	A1	Use File 100 Weight Method Code
Gut Position	73	1	Bytes	A1	1 = Foregut 2 = Midgut 3 = Hindgut 4 = Entire Stomach
Blank	74	26	Bytes	26X	
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting

## 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 (SPECIFY TYPE AND MODEL)	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	Tor	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

## 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.

# 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		
SEE ATTACHED DESCRIPTION OF RECORD FORMAT AND CODES USED					

## D. INSTRUMENT CALIBRATION

NOTE: Section inapplicable to this data file: Retrieval, & Compilation of Historical Sampling R&D  
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

RECORD NAME Haul Record (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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 in- ternal 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)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bit, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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 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)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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 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)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
Gear Type Code	20	2	Bytes	A2	Use File 023 Gear Type Code
Unit 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)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES (In Char mode)	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 FORMAT DESCRIPTION

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 (In CHAR mode)	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.
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting



# RECORD FORMAT DESCRIPTION

RECORD NAME Species Catch Record (Fish Resource Assessment)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (0.4, bits, bytes)	16. LENGTH		17. ATTRIBUTES (In CHAR mode)	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 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 (In CHAR mode)	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

File 023  
AGENCY CODE  
(Originator's Internal Code)

10 - Natl. Oceanic Atmos. Admin. (NOAA), Natl. Mar. Fish. Serv.  
(NMFS)

11 - Northwest Fisheries Center (NWFC), Seattle, WA.

12 - Auke Bay, Alaska

13 - Foreign vessels observer Japan

14 - Foreign vessels observer USSR

20 - State Agencies

21 - Alaska Dept. of Fish and Game (ADFG)

30 - Universities

31 - Univ. of Washington, Seattle, Fisheries Research Institute  
(FRI)

32 - Univ. of Hokkaido, Japan, Suisangakubu

40 - Fisheries Research Board of Canada

41 - Nanaimo Biological Station, B.C.

50 - Japan, Far Seas Fisheries Agency

60 - USSR

## DATA DOCUMENTATION FORM

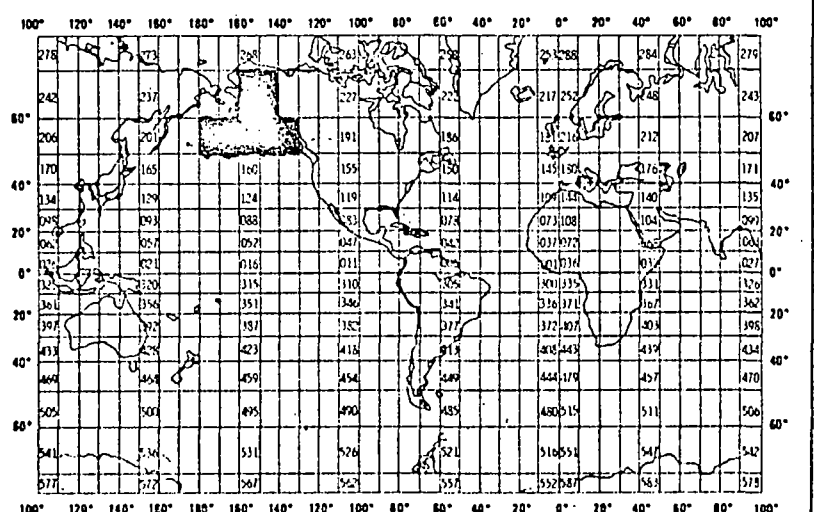
RETURN TO D764

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.

## 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  Walter T. Pereyra, Martin O. Nelson NOAA; NMFS/NWFC, RACE Division 2725 Montlake Blvd., E. Seattle, WA 98112											
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  OCSEAP - RU #64/354		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  File: 760801									
4. PLATFORM NAME(S)  N/A (see "Vessel" code)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"><thead><tr><th>PLATFORM</th><th>OPERATOR</th></tr></thead><tbody><tr><td>U.S.; Can. Jap.</td><td>U.S.; Can. Jap.</td></tr></tbody></table>	PLATFORM	OPERATOR	U.S.; Can. Jap.	U.S.; Can. Jap.	7. DATES <table border="1"><thead><tr><th>FROM: MO/DAY/YR</th><th>TO: MO/DAY/YR</th></tr></thead><tbody><tr><td>09/21/48</td><td>02/19/76</td></tr></tbody></table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	09/21/48	02/19/76
PLATFORM	OPERATOR										
U.S.; Can. Jap.	U.S.; Can. Jap.										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
09/21/48	02/19/76										
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. Gulf of Alaska: 52 N to AK coast; 135 W to 170 W Bering Sea: Aleutian Is. to 60 N; 180 W to AK coast 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)  Nickolas D. Lampsakis 8-399-7796 (FTS)											

10/13/76

File 023  
VESSEL CODE  
(Originator's International Code)

use for files

023

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  
23 - Big Valley  
24 - Skiff  
28 - Deep Sea

N4 - Nuisance 4  
OS - Oshoro Maru  
GR - G.B. Reed  
DG - Dutch Girl

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

### 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

### 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.

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



### File 023 Gear Material Code

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

### 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

### Life History Code

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

- 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

## 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)

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 |   |

# Sea

## 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.

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 - 103	51.0 - 56.0	184 - 201	115 - 125
17	—	109 - 118	56.1 - 61.2	202 - 220	126 - 136

76-1767



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
ENVIRONMENTAL RESEARCH LABORATORIES

Outer Continental Shelf Environmental  
Assessment Program  
Bering Sea-Gulf of Alaska Project Office  
P. O. Box 1808  
Juneau, Alaska 99802  
PH: 907-586-7432

Date : October 26, 1976

To : Jim Audet  
EDS Data Coordinator

From : Francesca M. Cava, Assistant Data Manager *MCava*  
NOAA/OCSEAP - Juneau Project Office

Subject: Submission of Data for R.U. 64/354.

Under separate cover is one magnetic tape, partial printout, errata sheet  
and DDF. This data is labelled as follows:

64/354 023 760801  
US/Canadian/Japanese  
Multy vessel  
09/21/48 - 02/19/76  
9 Track, EBCDIC, ODD, 1600 BPI

cc: W. Pereyra  
N. Lampsakes  
L. Jarvela  
B. Meyer

END.

*11/4 Note -  
Bound Listing accompanies  
this data set.  
Held at D781*





*Elaine - 76-1761*

**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL MARINE FISHERIES SERVICE  
Northwest and Alaska Fisheries Center  
2725 Montlake Boulevard East  
Seattle, WA 98112

**Date** : November 29, 1976

Reply to Attn. of:

**To** : James Audet, NODC/OCSEAP Data Coordinator, NOAA  
National Oceanographic Data Center, Washington, D. C. 20235

**From** : Nick Lampsakis, Fishery Biologist, RACE, NWAFC, F111 *NL*

**Subject**: Errata for Taped Data Record for RU 64/354

Enclosed is an errata sheet with latest corrections for tape  
NWF023.PF760801 which contains data for OCSEAP Research Unit  
64/354.

## CORRECTIONS

TR 758-875

76-1767

File ID changed to TR # for Cruise Vessel

760801

TR 0758

01

not given

TR 0759

02

"

TR 0760

03

"

TR 0761

04

"

TR 0762

05

"

TR 0763

13

"

TR 0764

16

"

TR 0765

17

"

TR 0766

18

"

TR 0767

20

"

TR 0768

21

"

TR 0769

22

"

TR 0770

24

"

TR 0771

25

"

TR 0772

27

"

TR 0773

28

"

TR 0774

29

"

TR 0775

30

"

TR 0776

31

"

TR 0777

32

"

TR 0778

33

"

TR 0779

34

"

TR 0780

36

"

TR 0781

37

"

TR 0782

38

"

✓



File ID changed to TR# for Cruise Vessel

760801

TR0783

40

"

0784

41

"

0785

42

"

0786

43

"

0787

64

"

0788

65

"

0789

66

"

0790

69

"

0791

21

B

0792

22

B

0793

23

B

0794

24

B

0795

27

B

0796

30

B

0797

(not given)

C

0798

10

D

0799

13

D

0800

14

D

0801

17

D

0802

02

F

0803

04

F

0804

25

K

0805

26

K

0806

28

K

0807

31

K

✓

File ID changed to TR# for Cruise Vessel

760801	TR 0808	34	K
	0809	37	K
	0810	40	K
	0811	43	K
	0812	45	K
	0813	46	K
	0814	47	K
	0815	48	K
	0816	49	K
	0817	50	K
	0818	51	K
	0819	52	K
	0820	53	K
	0821	71	K
	0822	72	K
	0823	07	L
	0824	18	M
	0825	09	N
	0826	12	N
	0827	(not given)	O
	0828	(not given)	P
	0829	06	P
	0830	11	P
	0831	16	P
	0832	19	P

File ID changed to TR# for cruise Vessel

760801

TR 0833

35

P

0834

39

S

0835

20

U

0836

(not given)

BB

0837

70

GR

0838

(not given)

N4

0839

(not given)

OS

0840

04

OS

0841

19

OS

0842

24

OS

0843

28

OS

0844

32

OS

0845

37

OS

0846

42

OS

0847

44

OS

0848

46

OS

0849

52

RN

0850

55

RN

0851

56

RN

0852

57

RN

0853

61

RN

0854

(not given)

SY

0855

(not given)

VQ

0856

01

02

0857

05

02

V

File

ID	changed to	TR#	for	Cruise	Vessel
		0858		15	02
		0859		16	02
		0860		23	02
		0861		33	02
		0862		39	02
		0863		44	02
		0864		52	02
		0865		54	02
		0866		43	04
		0867		51	04
		0868		53	04
		0869		54	04
		0870		03	14
		0871		05	20
		0872		15	20
		0873		32	20
		0874		01	27
✓		0875		01	28

# CORRECTIONS

76-1767

● column 4-9 File Identifier

All file Id's changed to a Track number

A unique track number is given to each  
unique cruise

Tracks #s assigned TR0758-TR0875

SORT

1st level	columns 13-14	Vessel code
2nd level	columns 15-16	Cruise number
3rd level	columns 17-19	Haul or set number
4th level	columns 101-104	Sequence number
5th level	column 10	Record type

CORRECTIONS (see also originators' correction sheets)

Seq # 630, vessel. 2D, cruise 14, card type 1 changed to vessel #D

Seq # 4594, card type 1, the 6 in column 39 changed to a 3

Seq # 649, card type 4, the 3 in column 16 changed to a 1

Seq # 650, card type 4, the 3 in column 16 changed to a 1

Seq # 656, card type 4, the 5 in column 16 changed to a 3

Seq # 657, card type 4, the 5 in column 16 changed to a 3

Seq # 699, card type 4, the 4 in column 16 changed to a 2

## CORRECTIONS

Sequence #s 1284-2810 were not sent with the originator tape.



76-1767

ERRATA

MAGNETIC DATA TAPE NWF023.PF760801

Research Unit (OCSEAP) #64/354

File 023

Tape ID 760801

November 27, 1976

*corrections made CMT*

<u>Sequence No.</u>		<u>Record No.</u>	<u>Character(s)</u>	<u>From</u>	<u>Change</u>	<u>To</u>
<i>✓</i> 646	<sup>13 for 2</sup> Vessel	<sup>15 for 2</sup> Cruise 01	1	16	7	1
<i>✓</i> 983	M	18	1	44-45	10	61
<i>not on tape</i> 2054			1	54	5	1

76-1767

ERRATA

## MAGNETIC DATA TAPE NWF023.PF760801

Research Unit (OCSEAP) #64/354

File 023

Tape I.D. 760801

September 30, 1976

corrections made CWT

<u>Sequence No.</u>	<u>Record No.</u>	<u>Character(s)</u>	<u>From</u>	<u>Change</u>	<u>To</u>
<i>13 for 2 Vessel</i> C ✓ 30	<i>15 for 2 Cruise</i> 02 1	27	4		5
C ✓ 635	38 1	28-29	58		85
C ✓ 669	05 1	31	9		4
C ✓ 895 N 12	1	38-39	78		80
<i>not on tape</i> 2725	1	35	I		N
<i>no tape</i> 2725	1	43	L		W
C 2820 BB	1	40			5
C 3566 OS 19	1	29-32	8189		5818
C 4594 20 32	1	39	6		3
C 4966 02 54	1	29	8		5
C 4460 <i>removed entire record</i>	4	all	Record extraneous, <u>eliminate</u>		

101	4	NE	'4460'
10	01	WE	'4'
1			
1			
101	4	E	
1			

\* SWITCH

101

10

\* SWITCH

\* SWITCH

1

01 = '0'

04 EQ '4460'

01 EQ '4'

01 = '1'

01 EQ '0'

01 =

AND

AND

FELS

## CORRECTIONS

In cols 15-16 (cruise) : 1, 2, 3, 4, 5, 6, 7 and 9,  
a zero(0) was inserted in col 15.

Cols 15-16 (cruise) : are now 01, 02, 03,  
04, 05, 06, 07 and 09

This was done for a correct SORT

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 023

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

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

31 5

RECORD NAME, Haul 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	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)

14. 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	
Day	48	2	Bytes	I2	
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

6-26-71

RECORD NAME 'Haul, continued (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		
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 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

3-12-14  
5

RECORD NAME Trawl Gear 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		
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 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)

10/22/76  
62

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., 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
Gear Salinity	63	3	Bytes	I3	Salinity measured at the gear parts / thousandths to tenths
Transparency	66	3	Bytes	I3	Secchi disk depth is meters to tenths
Re	69	3	Bytes	A3	Meters to tenths (with respect to mean lower low water) no sign for positive values, negative (-) in byte 69 with zero fill in byte 70 as necessary
Tide Stage Code	72	1	Bytes	A1	
Blank	73	24	Bytes	24X	
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	Analogous to NODC Station Number
Haul or Set Number	17	3	Bytes	A3	
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 (e.g., 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 FORMAT DESCRIPTION

RECORD NAME Miscellaneous Gear Record (optional), 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		
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
Outside (wing) Mesh of Seine	69	1	Bytes	A1	Use File 023 Mesh Code
Middle Mesh of Seine	70	1	Bytes	A1	Use File 023 Mesh Code
Bag Mesh of Seine	71	1	Bytes	A1	Use File 023 Mesh Code
Trammel Net, Number of Shackles	72	2	Bytes	I2	Number of Trammel Net Shackles
Material of Outer Panels	74	1	Bytes	A1	Use File 023 Gear Material Code
Mesh of Outer Panels	75	1	Bytes	A1	Use File 023 Mesh Code
Material of Inner Panel	76	1	Bytes	A1	Use File 023 Material Code
Mesh of Inner Panel	77	1	Bytes	A1	Use File 023 Mesh Code
Gear Salinity	78	3	Bytes	I3	Salinity measured at the gear. Parts/thousandths to tenths
Tide	81	3	Bytes	A3	Meters to tenths (with respect to mean lower low water) no sign for positive values, negative (-) in byte 69 with zero fill in byte 70 as necessary
Tide Stage Code	84	1	Bytes	A1	
Blank	85	12	Bytes	12X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Miscellaneous Gear Record (optional), Continued (Fish Resource Assessment) 96

FIELD NAME	15. POSITION FROM -1 MEASURED IN <u>Byte</u> (e.g., bits, bytes)	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 FORMAT DESCRIPTION

10/26/74  
10

RECORD NAME Species Catch Record (Fish Resource Assessment)

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 '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 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

# RECORD FORMAT DESCRIPTION

11/5/76

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

11

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Volume of Catch	56	1	Bytes	I5	In Whole milliliters
Fish per liter	61	4	Bytes	I4	Number of fish of this species/ liter
Weight of Small Catches	65	4	Bytes	I4	Grams to tenths
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
Sequence Number	100	5	Bytes	I5	Ascending numeric, used for sorting



## RECORD FORMAT DESCRIPTION

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 (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 '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

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
Carapace Width	58	3	Bytes	I3	In whole millimeters
Shell Condition Code	61	1	Bytes	A1	Use File 023 Shell Condition Code
Egg Color Code	62	1	Bytes	A1	Use File 023 Egg Color Code
Egg Condition Code	63	1	Bytes	A1	Use File 023 Egg Condition Code
Clutch Size Code	64	1	Bytes	A1	Use File 023 Clutch Size Code
Chelae Length	65	3	Bytes	I3	In millimeters to tenths
Blank	68	29	Bytes	29X	
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 an 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

15 / 26 / 12  
15a

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	
Haul or Set Number	17	3	Bytes	A3	Analogous to NODC station number
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	Milliter to tenths
Organ Code	54	1	Bytes	A1	Where prey are found 1 - Stomach 2 - Intestine
Stomach Fullness Code	55	1	Bytes	A1	
Life History Code of Predator	56	1	Bytes	A1	
Stomach Digestion Code	57	1	Bytes	A1	Use File 100 Stomach Digestion Code
Weight of Stomach Contents	58	6	Bytes	I6	Grams to hundredths
Life History Code of Prey	64	1	Bytes	A1	
Wet Weight of Prey	65	7	Bytes	I7	Grams to thousandths

RETURN TO D764

RESOURCES OF NON-SALMONID PELAGIC FISHES  
OF THE GULF OF ALASKA AND EASTERN BERING SEA  
-----

DESCRIPTION OF THE DATA RECORD

by

Nickolas D. Lampsakis

Submitted as part of the Final Report for Contracts #R7120811 and #R7120812  
Task A-7, Research Unit #64/354  
OUTER CONTINENTAL SHELF ENERGY ASSESSMENT PROGRAM

Sponsored by  
U. S. Department of the Interior  
Bureau of Land Management

U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Northwest Fisheries Center  
2725 Montlake Boulevard East  
Seattle, Washington 98112

September 1976

Job No.	User Name	PL	Task No.	Date
	ASHBY 035	SL	R 71208	1/24/77
Reel No.	Density 200/	Drive	Master	
	556 80 1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			LRCL
Data Description				
76-1767 OCSEAP FISH NMFS (OR 1G.)				
Remarks Special Entries/Title Job Name				
DSN = NWFO23.PF760801				
Vol. Ser.	LRCL	Bik. Fact.	Release Authorized by	Date Released
009655	104	43		

NOAA Form 47-29 (4-73)

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

009655 104 43

Job No.	User Name	PL	Task No.	Date
	ASHBY 035	SL	R 71208	1/24/77
Reel No.	Density 200/	Drive	Master	
	556 80 1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			LRCL
Data Description				
76-1767 OCSEAP FISH NMFS (COPY OR 1G.)				
Remarks Special Entries/Title Job Name				
DSN = RHCE				
Vol. Ser.	LRCL	Bik. Fact.	Release Authorized by	Date Released
011541	101	43		

NOAA Form 47-29 (4-73)

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

011541 101 43

Job No.	User Name	PL	Task No.	Date
	ASHBY 035	SL	R 71208	03/21/77
Reel No.	Density 200/	Drive	Master	
	556 80 1600	#	#	
Track	Tape	Storage Location	Packed	Decimal
7/9	New/Used			LRCL
Data Description				
76-1767 OCSEAP FISH NMFS (COPY)				
Remarks Special Entries/Title Job Name				
DSN = FISH				
Vol. Ser.	LRCL	Bik. Fact.	Release Authorized by	Date Released
012782	104	43		

NOAA Form 47-29 (4-73)

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

012782 104 43

76-1767

Job. No.	User Name	PL	Task No.	Date
	ASHBY D31	SL	R71208	03/30/77
Reel No.	Density 200/	Drive	Mast. Reel	
1 of 1	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal/BCDIC
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
76-1767 OCEAN FISH NMFS (CORP BKUP)				
Remarks/Special Entries/Title/Job Name				
DSN = FISHC				
Vol. Ser.	LREC	Dik. Fact.	Release Authorized by	Date Released
004376	104	4-3		

NOAA Form 47-29  
(4-73)

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

DATE:

TO:

83 NODC 805

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 7601767

- 1) File Type: 123
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR0758 - TR0875

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

*No errors*

III.

Processor Name:

*Mary Lewis*



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

ACCESSION/TRACK NO.:

OF E	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	OCSE62	NL	80	4000	FB		11,800
DUPLICATE	W04278	SL	80	4000	FB	DSN = DNO DC* 83NOTC805.	
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DNO DC* F123TR0758.					*split in two Parts for check (Removal)	11,800
EDITED DISK FILE							

## DATA SET ROUTE SHEET

ACCESSION/TRACK # 7601767 / TR0758-875

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #	2/7/84	SH.	DCSE62	1	4000	80	11,800
QUADI/SCAN TAPE #	2/7/84	SH.	W04278	1	4000	80	11,800
DDF EVALUATION	3/5/84	max					
QUALITY REVIEW	2/7/84	max					
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	2/29/84	max	*				
FIRST USER TAPE #							
WORK DISK FILE	2/27/84	max	DNODC* F123TR0758.				11,800
FINAL USER TAPE #							
FINAL MULCHEK	3/5/84		*DNODC* MARY. TR0758/F123				11,800
EDITED DISK FILE			*DNODC* MARY. TR0822/F123				
DATA SET "FINALIZED"							

University of Alaska  
Arctic Environmental Information and Data Center

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Ms. Sid Halminski REFERENCE TO: \_\_\_\_\_  
NODC, Page Building #1 ATTENTION: Sid Halminski  
2001 Wisconsin N.W.  
Washington, D.C. 20235

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

☐ Ordinary ☐ Registered ☒ Air ☐ Certified ☐ Government ☐ By Hand ☐ Other  
Mail Mail Mail Mail Truck

Enclosed is the finalized version of Nelson RU064, FT123 data. The 118 data sets included range from TR0758 through TR0875 consecutively.

The following items may appear as a "flagged" parameter on your processing runs:

1. Check time. Time not available.
2. Check date. Day not available.

The following items are over the NODC recommended range, however, are valid values:

1. Average wet weight of catches
2. Width of doors
3. Fishing duration
4. Average bottom depth

The following items are under the NODC recommended range, yet are valid values:

1. Float diameter
2. Opening height of trawl
3. Opening width of trawl
4. Overall length

Included are the DINDB forms, the DDF, the final listings, and the diskettes containing the data.

MA/sn

cc. D. Friis  
S. Swanner

FORWARDED BY (Signature) Marilyn Allen TITLE Project Manager DATE FORWARDED 16 December 1983

RECEIVED BY (Signature) \_\_\_\_\_ TITLE \_\_\_\_\_ DATE RECEIVED \_\_\_\_\_

NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK # <b>OCSEAP</b>	DATE SUBMITTED <b>2/15/84</b>	DATE DUE	BIN # <b>33</b>
--------------------------	----------------------------	-----------------------------	----------------------------------	----------	--------------------

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

**FT 123 MAKE SL COPY. RUN SCAN AND LOOK AND PRINT 200 RECORDS ON OUTPUT TAPE**

*Initialized tape, 15 copy 15 scan, 1 look, & 1 Print*  
**83 NODC 805**

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<b>QCSE62</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>4000</b>	<b>1</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	<b>Wφ4278</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>SL</b>	<b>80</b>		<b>4000</b>	<b>1</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>DNOD *83NODC 805</b>			PURGE DATE

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------------

31 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<i>21526</i>	<b>2/15/84</b>	<b>2:09</b>	<b>2:17</b>	<b>0</b>	<b>MT1-MT2 - 2 mounts</b>

REMARKS

*Completed by E. G. Smach*

NAME BALMINSKI	PHONE # 634- 7441	ORG/TASK # OCSEAP	DATE SUBMITTED 2/7/84	DATE DUE	BIN # 33
-------------------	-------------------------	----------------------	-----------------------------	----------	-------------

ATTENTION TO BE USED AND FUNCTION TO BE PERFORMED  
FT 123 RUN SCAN AND LOOP

83 NODC 805

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	OCSE.62		9	1600	ODD	NL	FB	80	4000	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD LENGTH	RECORD SIZE	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------------

USE ONLY					
	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
	2/8/84	8:24	8:27	C	MT1 - 1 - mount

REMARKS  
Completed by E. G. Mason

USER NAME <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK # <b>OCSEAP</b>	DATE SUBMITTED <b>2/7/87</b>	DATE DUE	BIN # <b>33</b>
-------------------------------	----------------------------	-----------------------------	---------------------------------	----------	--------------------

ATTACHMENT TO BE USED AND FUNCTION TO BE PERFORMED

**FT 123 RUN SCAN AND LOOK**

**83 NODC 805**

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

TAPE/DISKETTE INFORMATION

	TAPE #/ <del>DISKETTE</del>	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<b>OCSE62</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>4000</b>	<b>1</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD LENGTH	RECORD SIZE	MAX. BLOCK SIZE	# OF FILES

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------------

31 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>0704</b>	<b>2/7/84</b>	<b>12:07</b>	<b>12:16</b>	<b>C</b>	<b>MTI-1-mount</b>

REMARKS

*Completed by E. G. Mason*

USER NAME. <b>HALMINSKI</b>	PHONE # <b>634-7441</b>	ORG/TASK # <b>OCSEAP</b>	DATE SUBMITTED <b>1/26/84</b>	DATE DUE	BIN # <b>33</b>
--------------------------------	----------------------------	-----------------------------	----------------------------------	----------	--------------------

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

**FT 123**

**RUN SCAN, LOOK AND PRINT 200 RECORDS**

**88 NODC 805**

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<b>OCSE62</b>		<b>9</b>	<b>1600</b>	<b>ODD</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>4000</b>	<b>1</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD LENGTH	RECORD SIZE	MAX. BLOCK SIZE	# OF FILES

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
----------------------	--------------------------------

0731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>4012601</b>	<b>1/26/84</b>	<b>9:50</b>	<b>9:57</b>	<b>C</b>	<b>MT1 - 1 mount</b>

REMARKS  
**Completed by E. G. Smason**

## CORRECTED BACKUP TAPE

VOL=SER= 004376, 9 TRK, DSN=FISHC, LABEL=(,SL)  
DCB=(LRECL=104, BLKSIZE=4472, RECFM=FB)



## CORRECTIONS

J. Andet

76-1767

File ID	changed to	TR #	for Cause	Vessel
760801		TR0758	01	not given
		TR0759	02	"
		TR0760	03	"
		TR0761	04	"
		TR0762	05	"
		TR0763	13	"
		TR0764	16	"
		TR0765	17	"
		TR0766	18	"
		TR0767	20	"
		TR0768	21	"
		TR0769	22	"
		TR0770	24	"
		TR0771	25	"
		TR0772	27	"
		TR0773	28	"
		TR0774	29	"
		TR0775	30	"
		TR0776	31	"
		TR0777	32	"
		TR0778	33	"
		TR0779	34	"
		TR0780	36	"
		TR0781	37	"
		TR0782	38	"

✓

<u>File ID</u>	<u>changed to</u>	<u>TR#</u>	<u>for</u>	<u>Crimes</u>	<u>Version</u>
760801		TR0783		40	"
		0784		41	"
		0785		42	"
		0786		43	"
		0787		64	"
		0788		65	"
		0789		66	"
		0790		69	"
		0791		21	B
		0792		22	B
		0793		23	B
		0794		24	B
		0795		27	B
		0796		30	B
		0797	(not given)		C
		0798		10	D
		0799		13	D
		0800		14	D
		0801		17	D
		0802		02	F
		0803		04	F
		0804		25	K
		0805		26	K
		0806		28	K
		0807		31	K

File ID changed to TR# for Cause Vessel

760801	TR 0808	34	K
	0809	37	K
	0810	40	K
	0811	43	K
	0812	45	K
	0813	46	K
	0814	47	K
	0815	48	K
	0816	49	K
	0817	50	K
	0818	51	K
	0819	52	K
	0820	53	K
	0821	71	K
	0822	72	K
	0823	07	L
	0824	18	M
	0825	09	N
	0826	12	N
	0827	(not given)	O
	0828	(not given)	P
	0829	06	P
	0830	11	P
	0831	16	P
	0832	19	P

File ID changed to TP# for Cruise Vessel

760801

TR 0833

35

P

0834

39

S

0835

20

U

0836

(not given)

BB

0837

70

GR

0838

(not given)

N4

0839

(not given)

OS

0840

09

OS

0841

19

OS

0842

24

OS

0843

28

OS

0844

32

OS

0845

37

OS

0846

42

OS

0847

44

OS

0848

46

OS

0849

50

RN

0850

55

RN

0851

56

RN

0852

57

RN

0853

61

RN

0854

(not given)

SY

0855

(not given)

VQ

0856

61

O2

0857

65

O2

V

File

ID	changed to	TR#	for	Cruise	Vessel
		0858		15	02
		0859		16	02
		0860		23	02
		0861		33	02
		0862		34	02
		0863		44	02
		0864		52	02
		0865		34	02
		0866		43	04
		0867		51	04
		0868		53	04
		0869		54	04
		0870		03	14
		0871		05	20
		0872		15	20
		0873		32	20
		0874		01	27
		0875		01	28

V

# CORRECTIONS

76-1767

columns 4-9 File Identifier

All file IDs changed to a Track number

A unique track number is given to each  
unique cruise

Tracks #s assigned TR0758-TR0875

SORT

1st level

Columns 13-14

Vessel code

2nd level

columns 15-16

Cruise number

3rd level

columns 17-19

Haul or pit number

4th level

columns 101-104

Sequence number

5th level

column 10

Record Type

CORRECTIONS (see also original correction sheets)

Seq # 630, Vessel 2D, Cruise 14, card type 1 changed to Vessel 1D

Seq # 4594, card type 1, the 6 in column 39 changed to a 3

Seq # 649, card type 4, the 3 in column 16 changed to a 1

Seq # 650, card type 4, the 3 in column 16 changed to a 1

Seq # 656, card type 4, the 5 in column 16 changed to a 3

Seq # 659, card type 4, the 5 in column 16 changed to a 3

Seq # 699, card type 4, the 4 in column 16 changed to a 2



## CORRECTIONS

Sequence #s 1284-2810 were not  
sent with the original top.

76-1767

ERRATA

MAGNETIC DATA TAPE NWF023.PF760801

Research Unit (OCSEAP) #64/354

File 023

Tape ID 760801

November 27, 1976

*Corrections made CWH*

<u>Sequence No.</u>	<u>Record No.</u>	<u>Character(s)</u>	<u>Change</u>	<u>From</u>	<u>To</u>
<i>13 Jan 72</i> <i>Version</i> C 646	<i>15 Jan 72</i> <i>01</i> 1	16	7	1	
C 983	M 18 1	44-45	10	61	
<i>not on tape</i> 2054	1	54	5	1	

ERRATA

MAGNETIC DATA TAPE NWF023.PF760801

Research Unit (OCSEAP) #64/354  
File 023  
Tape I.D. 760801

September 30, 1976

*corrections made Curt*

Sequence No.	Record No.	Character(s)	Change	
			From	To
<i>13 for 2 15 for 2</i> C 30	1	27	4	5
C 635	1	28-29	58	85
C 669	1	31	9	4
C 895	1	38-39	78	80
<i>not on tape</i> 2725	1	35	I	N
<i>not on tape</i> 2725	1	43	L	W
C 2820	1	40		5
C 3566	1	29-32	8189	5818
C 4594	1	39	6	3
C 4966	1	29	8	5
C 4460 <i>removed entire record</i>	4	all	Record extraneous, <u>eliminated</u>	

## CORRECTIONS

In cols 15-16 (cruise) 1, 2, 3, 4, 5, 6, 7 and 9,  
a zero (0) was inserted in col 15.

Cols 15-16 (cruise) are now 01, 02, 03,  
04, 05, 06, 07 and 09.

This was done for a correct SORT

76-1767

RETURN TO D764

RESOURCES OF NON-SALMONID PELAGIC FISHES  
OF THE GULF OF ALASKA AND EASTERN BERING SEA

-----  
DESCRIPTION OF THE DATA RECORD

by

Nickolas D. Lampsakis

RU 64

Submitted as part of the Final Report for Contracts #R7120811 and #R7120812  
Task A-7, Research Unit #64/354

OUTER CONTINENTAL SHELF ENERGY ASSESSMENT PROGRAM

Sponsored by

U. S. Department of the Interior  
Bureau of Land Management

U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Northwest Fisheries Center  
2725 Montlake Boulevard East  
Seattle, Washington 98112

September 1976

ACCESSION  
NUMBER

76-1767

## DATA DOCUMENTATION FORM

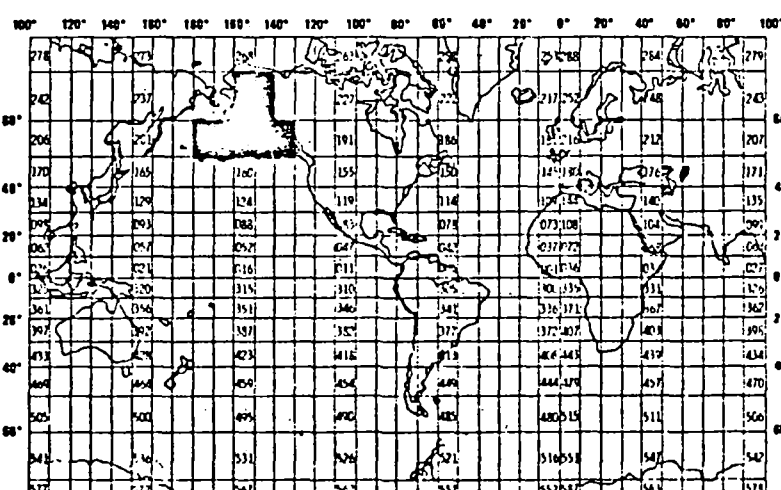
RETURN TO D764

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.

## 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  Walter T. Pereyra, Martin O. Nelson NOAA; NMFS/NWFC, RACE Division 2725 Montlake Blvd., E. Seattle, WA 98112											
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  OCSEAP - RU #64/354		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  File: 760801									
4. PLATFORM NAME(S)  N/A (see "Vessel" code)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"><thead><tr><th>PLATFORM</th><th>OPERATOR</th></tr></thead><tbody><tr><td>U.S.; Can. Jap.</td><td>U.S.; Can. Jap.</td></tr></tbody></table>	PLATFORM	OPERATOR	U.S.; Can. Jap.	U.S.; Can. Jap.	7. DATES <table border="1"><thead><tr><th>FROM: MO, DAY, YR</th><th>TO: MO, DAY, YR</th></tr></thead><tbody><tr><td>09/21/48</td><td>02/19/76</td></tr></tbody></table>	FROM: MO, DAY, YR	TO: MO, DAY, YR	09/21/48	02/19/76
PLATFORM	OPERATOR										
U.S.; Can. Jap.	U.S.; Can. Jap.										
FROM: MO, DAY, YR	TO: MO, DAY, YR										
09/21/48	02/19/76										
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. Gulf of Alaska: 52 N to AK coast; 135 W to 170 W Bering Sea: Aleutian Is. to 60 N; 180 W to AK coast 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)  Nickolas D. Lampsakis 8-399-7796 (FTS)											

# 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
NOT APPLICABLE; SEE ATTACHED DESCRIPTION OF DATA RECORD				

# 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 E METHOD OF IDENTIFYING EACH RECORD TYPE

Four distinct record types differentiated by character 10:

- (1) Haul information
- (2) Trawl gear description
- (3) Miscellaneous gear description
- (4) Species catch

Records of complete hauls (w/ gear descr. and catch included) are differentiated by characters 100 - 104

## 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Tape has standard header label

The EOF mark is placed at the end of the file

Computer used: IBM 360

Record sequencing: by sequence pointer (CHAR 100-104) and by record type (CHAR 10)

Record grouping: by originating agency differentiated by characters 11,12

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

## 4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Robert W. Riemann, 8-399-0171 (FTS)

ADDRESS 2725 Montlake Blvd., E., Seattle, WA 98112

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 0.6 inch
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>  Originators: Various government & academic institutions Historical, unpublished sampling records. Content: Selected non salmonid pelagic fish.
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	



RESOURCES OF NON-SALMONID PELAGIC FISHES  
OF THE GULF OF ALASKA AND EASTERN BERING SEA

- - - - -

DESCRIPTION OF THE DATA RECORD  
MAGNETIC DATA TAPE NWF023.PF760801

Tape Specifications: See appended Data Documentation Form.

- - - - -

The records contained in tape NWF023.PF760801 constitute a compilation of heretofore unpublished research vessel data, obtained from a variety of governmental and academic sources. Certain records containing proprietary information have been excluded at the request of the agency providing them (e.g., Fisheries Research Institute, University of Washington). The entire volume of data has been analyzed and used to supplement the narrative report bearing the above title, prepared at the Northwest Fisheries Center of the National Marine Fisheries Service in Seattle, Washington.

The historical nature of the data has precluded any objective verification of the data and of the instruments and methods used in generating them.

The tape contains four distinct types of records (haul description, trawl gear description, miscellaneous gear description, catch description), differentiated by character 10 and described in the coding format appended to this report. Records are grouped according to originators, differentiated by characters 11, 12.

Completeness of Record

Every attempt has been made to incorporate all usable data pertaining to sampling for pelagic fish in the study area. Certain proprietary records, however, could not be obtained. These include, but are not limited to, pelagic sampling conducted by the Pacific Biological Station of the Fisheries Research Board of Canada, Soviet exploratory survey records of the All-Union Institute

of Fisheries and Oceanography (VNIRO) and the Pacific Institute of Fisheries and Oceanography (TINRO), records of exploratory fishing by the Japanese Far Seas Fisheries Agency, and fishery sampling data of Japanese fishing companies. Domestic and foreign published catch statistics for species of interest in the area have been excluded because of their summary nature and, by our standards, inadequate coverage. All available statistics, however, have been incorporated in the separately published narrative report of this project.

#### Methods Used in the Selection of Data

Records made available to this project were evaluated for acceptability as follows:

##### Criteria for inclusion in the record:

Data records from each originator were arranged according to vessel cruise number; i.e., a number of hauls performed by a single vessel or mothership within a unit time period. Cruise records acceptable for inclusion were:

- a) Cruises conducted within the geographic area of interest. Often, cruises would contain only a number of hauls conducted in the area; in such cases, only those hauls were included;
- b) Cruises for which locations, times and methods of sampling were adequately documented;
- c) Cruises in which incidental catches of the species of interest were fully documented;
- d) Cruises in which incidental catches of the species of interest occurred and were reported for more than 10% of the hauls conducted in the geographical area of interest. Cruise records not satisfying this requirement included primarily those in which the sampling gear and stratum were totally inappropriate for the species of interest (e.g., most bottomfish sampling, king crab and Tanner crab surveys as well as most shrimping cruises).

As a general rule, very few bottom trawling cruises were included. Those included were deemed marginally acceptable and have been utilized to demonstrate the degree of vulnerability and availability of pelagic species to such gear.

#### Organization of the Data Record

Within the total data package, sampling records are differentiated by characters 100-104. These form an ascending numerical sequence, incremented once with each haul record (Record 1). The sequence address is the same for all records pertaining to a given haul.

A number of haul records are followed by no catch data. This is because only catches of selected species (see appended species coding list) were included in the record. Such haul records are included as an aid for the estimation of the fishing effort.

#### Comments on Data Completeness and Accuracy

Within each record type, individual data entries and fields may be qualified as follows:

##### — Haul Record (Record 1)

Location descriptions (area, latitude, longitude) were entered as supplied by the originators. Occasionally, when data were summarized, the position designation was averaged or a center-point was arbitrarily chosen for closely related hauls. Summation or averaging occurred when individual haul data were unavailable or contained fragmentary information.

—Time designations (date, hour, minute) were entered in GMT converted by computer program subroutine from the supplied local time designations (1/10 hrs). Records obtained from certain originators failed to list these; with the critical exception of date, these fields may occasionally be blank.

Parameters describing physical conditions during sampling were not always available.

Subjective information (bottom type, haul effectiveness, weather conditions, etc.,) has been entered as supplied by the originators with no further evaluation.

#### Gear Description (Records 2,3)

These records are alternate to each other. In using them, an attempt is made to convey a description of the methods used in the collection of data. Such information was extracted from cruise reports and/or in consultation, whenever possible, with the original investigators. The resulting records, at times quite fragmentary or entirely missing, provide the sole documentation of the methods used.

#### Catch Record (Record 4)

Catches of the species of interest (see Appendix) are recorded along with weight, number and age measurements with the following cautionary note: None of the cruises in the record considered the species listed as their primary research target. Consequently, in spite of efforts to secure accuracy in identification and enumeration, the validity of identification at the species level is doubtful whenever numbers and/or weights are qualified as "rough estimate" or whenever the samples contained large numbers of non-target species juveniles or larvae.

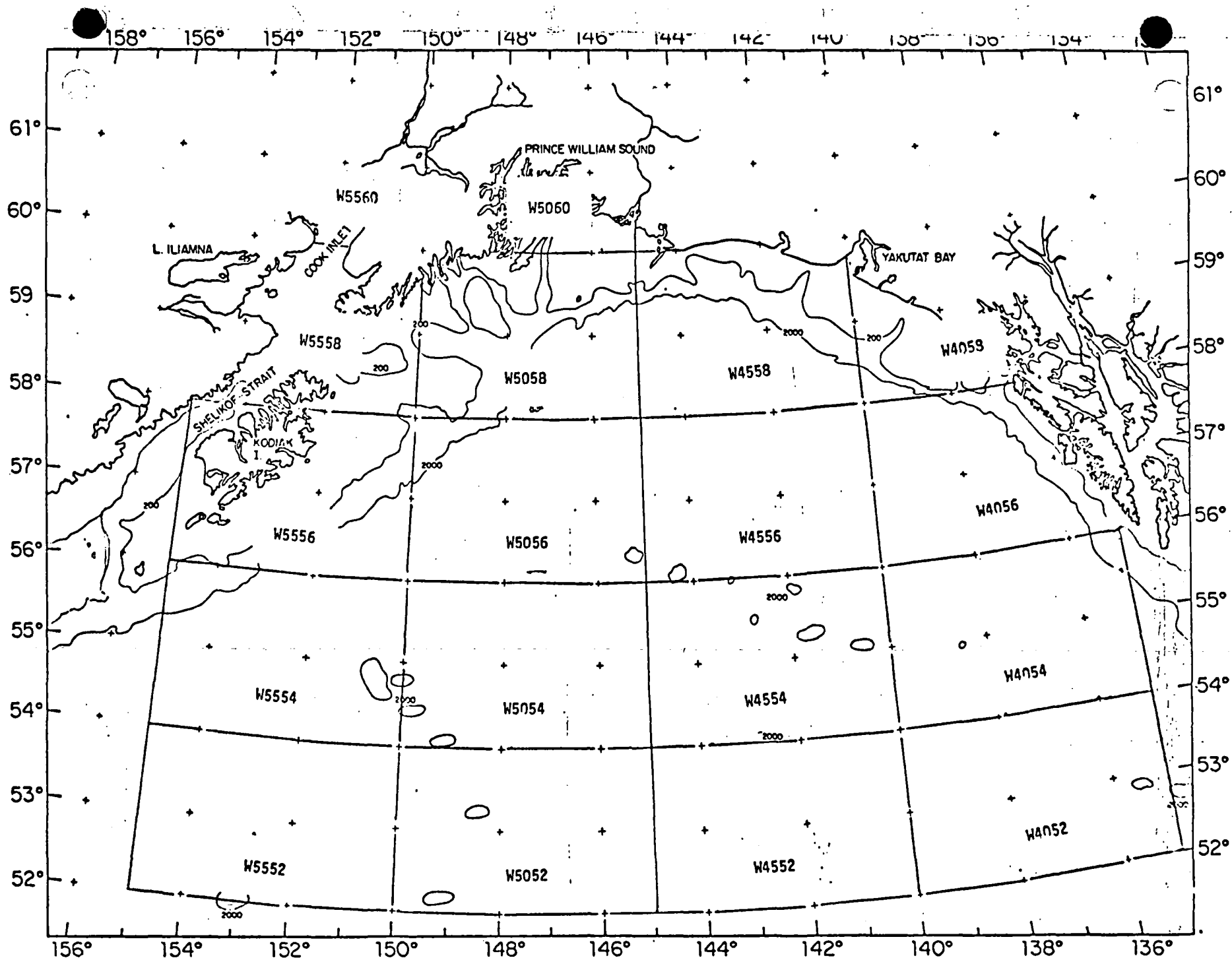
#### Discussion

As an overall evaluation, the record is admittedly quite fragmentary and, at times, of doubtful accuracy and precision. However, it must be emphasized that this record, along with the excluded proprietary information, constitutes the sum total of usable sampling information currently available on the subject species in the geographical area outlined.

## APPENDIX

-----

### TAPE RECORD FORMAT AND CODING DESCRIPTION



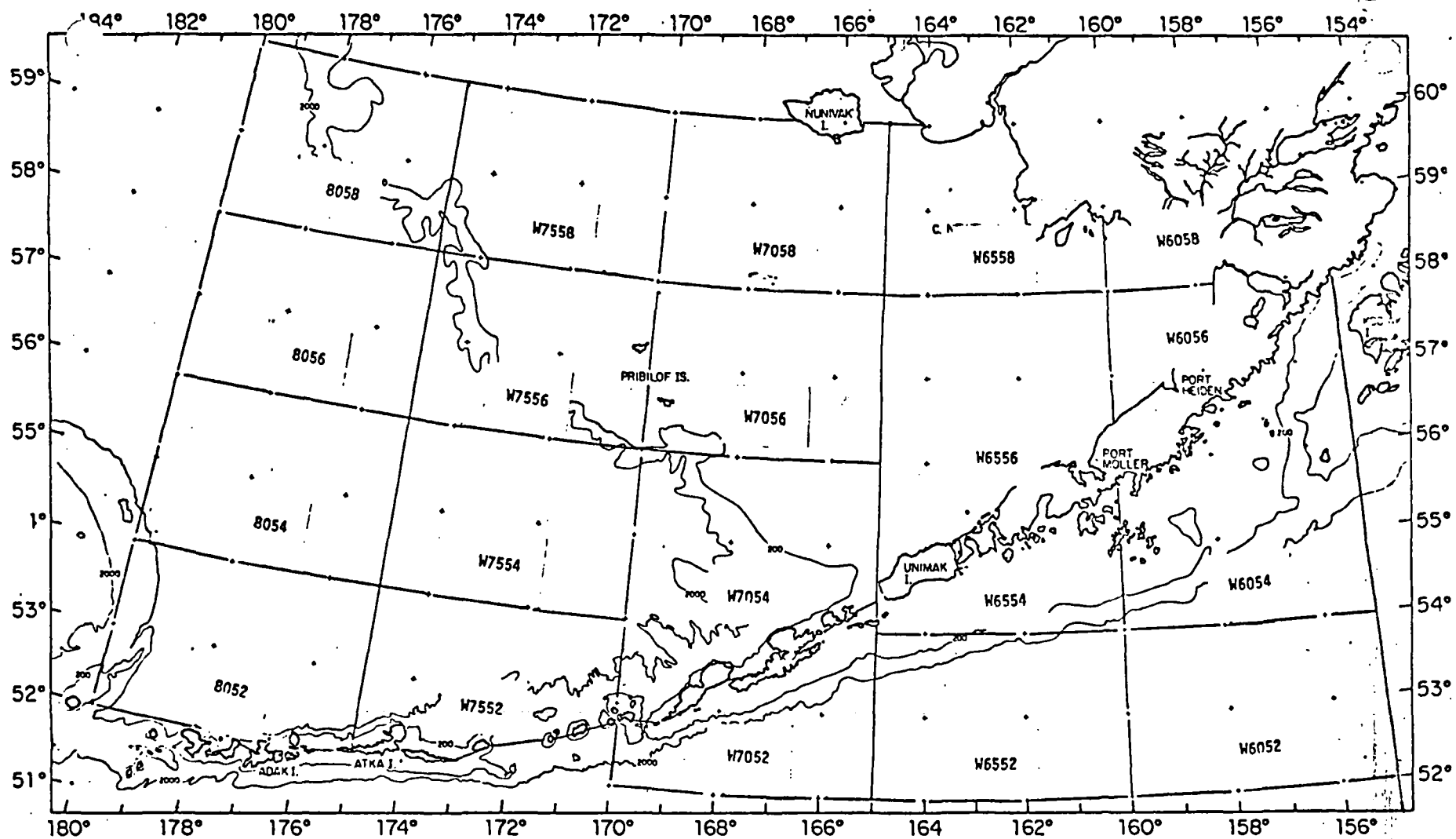


FIGURE 2. International North Pacific Fisheries Commission (INPFC) coding system

PELAGIC SPECIES CODING

-----

<u>Scientific Name</u>	<u>Common Name</u>	<u>Code</u>
Lamnidae	Mackerel sharks	760202
Cetorhinus maximus	Basking shark	7602020201
Lamna ditropis	Salmon shark	7602020301
Carcharhinidae	Requiem sharks	760204
Prionace glauca	Blue shark	7602040201
Galeorhinus zyopterus	Soupfin shark	7602040101
Squalidae	Dogfishes	760205
Squalus acanthias	Spiny dogfish	7602050201
Clupeidae	Herrings	790301
Clupea harengus pallasii	Pacific herring	7903010201
Alosa sapidissima	American shad	7903010101
Osmeridae	Smelts	790402
Hypomesus pretiosus	Surf smelt	7904020101
Mallotus villosus	Capelin	7904020201
Osmerus mordax	Rainbow smelt	7904020302
Thaleichthys pacificus	Eulachon	7904020501
Hypomesus olidus	Pond smelt	7904020102
Osmerus eperlanus	Boreal smelt	7904020301
Spirinchus thaleichthys	Longfin smelt	7904020402
Cololabis saira	Pacific saury	7910010101
Trachurus symmetricus	Jack mackerel	7916010101
Brama japonica	Pacific pomfret	7916020101
Trichodon trichodon	Pacific sandfish	7916080201
Aprora silenus	Prowfish	7916150101
Ammodytes hexapterus	Pacific sand lance	7916170101



PELAGIC SPECIES CODING (Cont.)

---

<u>Scientific Name</u>	<u>Common Name</u>	<u>Code</u>
Scombridae		791619
Scomber japonicus	Chub mackerel	7916190301
Thunnus sp.	Tunas	79161904
Thunnus alalunga	Albacore	7916190401
Thunnus thynnus	Bluefin tuna	7916190402
Pleurogrammus monopterygius-Atka mackerel		7915020301
Myctophidae	Lanternfishes	790506
Hierops crockeri	Flashlightfish	7905060401
Stenobrachius leucopsarus	Northern lampfish	7905060801
Diaphus theta	California headlightfish	7905060301
Tarletonbeania crenularis	Blue lanternfish	7905061001
Hierops thompsoni	Bigeye lanternfish	7905060402
Lampanyctus ritteri	Broadfin lampfish	7905060605
Ceratoscopelus townsendi	Dogtooth lampfish	7905060201
Bathylagidae	Deep sea smelts	790404
Bathylagus milleri	Stout blacksmelt	7904040103
Bathylagus pacificus	Slender blacksmelt	7904040104
Bathylagus stilbius	California smoothtongue	7904040105
Bathylagus schmidtii	" "	7904040107

FILE TYPE 123 - FISH/SHELLFISH RESOURCE ASSESSMENT - 05/10/82 VERSION

NOTES AND CORRECTIONS

THIS FORMAT IS DESIGNED TO SUPPORT STUDIES OF DISTRIBUTION AND ABUNDANCE OF FISHES RESULTING FROM EITHER MIDWATER OR BOTTOM TOW CATCHES AND TO PROVIDE INFORMATION ON POPULATIONS THAT MAY BE SUSCEPTABLE TO IMPACTS FROM OFFSHORE OIL AND GAS DEVELOPMENT, OFFSHORE DUMPING AND OTHER MARINE POLLUTION ACTIVITIES.

THE FORMAT CONSISTS OF A VARIETY OF SEVENTEEN DATA RECORDS FOR REPORTING DETAILED INFORMATION ON CRUISE DATA, GEAR AND TOW METHODS, DEPTHS OF OPERATION, POSITION, DATE, TIME AND RELATED ENVIRONMENTAL DATA. INFORMATION PERTAINING TO SPECIES IS DEPENDANT ON THE TYPE OF STUDY BEING REPORTED. IT MAY INCLUDE TOTAL, AVERAGE OR INDIVIDUAL CATCHES, LENGTH/FREQUENCY RESULTS, INDIVIDUAL OR SUMMARY PREY AND PREDATOR RECORDS AND SPECIMEN DATA FOR BOTH FISHES AND CRUSTACEANS. A TEXT RECORD IS INCLUDED FOR COMMENTS WHICH MAY BE GENERAL OR REFERENCED TO INDIVIDUAL HAULS, SAMPLES OR SPECIMENS.

ALL RECORDS ARE 80 CHARACTERS IN LENGTH. THIS FILE IS SORTED BY STATION NUMBER, HAUL NUMBER AND SEQUENCE NUMBER TO OBTAIN THE PROPER SEQUENCE OF RECORDS. SAMPLE AND SPECIMEN NUMBER FIELDS, WHERE USED, WILL ALLOW MORE SPECIFIC SORTING OR RETRIEVAL OF DATA RECORDS.

THIS FORMAT IS A REVISED, EXPANDED VERSION OF FILE TYPE 023. IT IS DESIGNED TO ACCOMMODATE THE NODC 12-DIGIT TAXONOMIC CODE AND TO PROVIDE FOR A GREATER VARIETY OF FISH AND CRUSTACEAN RESOURCE STUDIES INCLUDING SPECIFIC PREY/PREDATOR RELATIONSHIPS. RECORDS ARE ARRANGED IN A SOMEWHAT HIERARCHICAL FORM WITH STATION AND HAUL ENTRIES FOR RECORDS B THROUGH F, SAMPLE NUMBERS FOR RECORDS G THROUGH Q AND SPECIMEN NUMBERS FOR K THROUGH N.

\*\*\*\*\*12/11/80 - PREY SUMMARY RECORD (RECORD TYPE Q) - ADDED SMALL PREY WEIGHT (59-63) AND SMALL PREY VOLUME (64-66)  
\*\*\*\*\*1/18/82 - ADDED VOLUME OF TOTAL GUT CONTENTS, REC 'M' - LENGTH OF PREY SIZE, PCT OF PREY ITEMS, REC 'N'  
\*\*\*\*\*05/10/82 - ADDED RECORD TYPE 'R' GROWTH RECORD

~~\*\*\*\*~~ 11/04/83 - ADDED FISHING DURATION (59-61), DISTANCED FISHED (62-65) TO RECORD 'B'.

*Handwritten signature*  
11-30-83

PARAMETER	DESCRIPTION	SC
CRUISE HEADER RECORD	ALWAYS 'A' - THIS RECORD SHOULD BE USED ONLY ONCE FOR EACH FILE ID. INFORMATION SHOULD AGREE WITH THAT IN THE DOCUMENTATION THAT ACCOMPANIES THE DATA.	10
VESSEL/PLATFORM NAME	ELEVEN-CHARACTER FIELD	11
CRUISE NUMBER	SIX-CHARACTER FIELD ASSIGNED BY THE ORIG.	22
START DATE OF SURVEY	YYMMDD	28
END DATE OF SURVEY	YYMMDD	34
INVESTIGATOR, SCIENTIST OR DATA SOURCE	FIFTEEN-CHARACTER FIELD IDENTIFYING DATA SOURCE	40
INSTITUTION OR AGENCY	FIFTEEN-CHARACTER FIELD IDENTIFYING ORGANIZATION	55
AGENCY CODE	TWO-CHARACTER CODE - USE CODE 0079	70
VESSEL CODE	TWO-CHARACTER CODE - USE CODE 0133 - THESE TWO CODE FIELDS ARE INCLUDED PRIMARILY TO PERMIT CONVERSION OF DATA PREVIOUSLY SUBMITTED IN FILE TYPE 023. IT IS RECOMMENDED THAT THE INVESTIGATOR AND INSTITUTION NAME FIELDS BE UTILIZED WHERE POSSIBLE RATHER THAN THE CODE FIELDS WHEN SUBMITTING DATA IN THIS FORMAT.	72
BLANKS		74
STATION HEADER RECORD	ALWAYS 'B' - THIS RECORD INCLUDES MANDATORY FIELDS FOR POSITION, DATE, AND FISHING DATA THAT PERMITS THE DETERMINATION OF CATCH STATISTICS AND OTHER DATA PRODUCTS. ONLY ONE RECORD FOR EACH STATION NUMBER SHOULD BE SUBMITTED.	10
STATION NUMBER	SIX-CHARACTER FIELD ASSIGNED BY THE INVESTIGATOR WHICH MUST BE UNIQUE WITHIN A FILE ID. REOCCUPATION OF STATIONS WITHIN THE SAME CRUISE OR SURVEY CAN BE MODIFIED BY PREFIXING ALPHA-CHARACTERS (E.G. STATION 1, A1,B1,C1,ETC)	11
HAUL NUMBER	THREE-CHARACTER FIELD ASSIGNED BY THE INVESTIGATOR	17
NUMBER OF HAULS	XXX - INDICATES THE TOTAL NUMBER OF HAULS TAKEN AT A STATION - ENTRY WILL BE REPEATED FOR MULTIPLE HAULS PER STATION	20
LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	23
LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	30
DATE (GMT)	YYMMDD	38
TIME (GMT)	XXXX (HOURS AND MINUTES)	44
GEAR TYPE	TWO-CHARACTER CODE - USE CODE 0129	48
FISHING DURATION	XXX <del>(HOURS TO TENTHS)</del> (MINUTES)	<del>50</del> 59-61
DISTANCE FISHED	XXXX <del>(KILOMETERS TO TENTHS)</del> (Meters)	<del>50</del> 62-65
DIRECTION OF TOW	ONE-CHARACTER CODE - USE CODE 0096	57
PERFORMANCE	ONE-CHARACTER CODE - USE CODE 0131	58
BLANKS		59
SEQUENCE NUMBER	XXXX - USED FOR SORTING ALL RECORDS WITHIN A STATION OR A FILE ID	77

ENVIRONMENT RECORD	ALWAYS 'C' - THIS RECORD CONTAINS ENVIRONMENTAL DATA RELATED TO EACH STATION. ONLY ONE RECORD FOR EACH STATION SHOULD BE SUBMITTED	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
GEAR DEPTH	XXXX (WHOLE METERS)	20
GEAR TEMPERATURE	XXXX - TEMPERATURE AT GEAR DEPTH - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO VALUE (DEG C TO HUNDREDTHS)	24
GEAR SALINITY	XXXX - SALINITY AT GEAR DEPTH (PARTS PER THOUSAND TO HUNDREDTHS)	28
AVERAGE BOTTOM DEPTH	XXXX - AVERAGE DEPTH FOR THE STATION (WHOLE METERS)	32
BOTTOM TYPE	TWO-CHARACTER CODE - USE CODE 0077	36
SOUNDING RECORD	ONE-CHARACTER CODE - USE CODE 0165	38
BOTTOM TEMPERATURE	XXXX - WATER TEMPERATURE ON THE OCEAN BOTTOM - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO VALUE (DEG C TO HUNDREDTHS)	39
BOTTOM SALINITY	XXXX - WATER SALINITY ON THE OCEAN BOTTOM (PARTS PER THOUSAND TO HUNDREDTHS)	43
SURFACE TEMPERATURE	XXXX - SEA SURFACE TEMPERATURE - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO VALUE (DEG C TO HUNDREDTHS)	47
SURFACE SALINITY	XXXX - SEA SURFACE SALINITY (PARTS PER THOUSAND TO HUNDREDTHS)	51
TRANSPARENCY	XXX - SECCHI DISC DEPTH (METERS TO TENTHS)	55
TIDE HEIGHT	XXX - HEIGHT WITH RESPECT TO MEAN LOWER LOW WATER PRECEDED BY MINUS SIGN WHERE APPLICABLE (METERS TO TENTHS)	58
TIDE STAGE	ONE-CHARACTER CODE - USE CODE 0154	61
AIR TEMPERATURE	XXXX - AIR TEMPERATURE AT THE STATION LOCATION - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO VALUE (DEG C TO HUNDREDTHS)	62
WEATHER	ONE-CHARACTER CODE - USE CODE 0108	66
CLOUD AMOUNT	ONE-CHARACTER CODE - USE CODE 0105	67
SEA STATE	ONE-CHARACTER CODE - USE CODE 0109	68
WIND DIRECTION (FROM)	ONE-CHARACTER CODE - USE CODE 0096	69
WIND FORCE (BEAUFORT)	ONE-CHARACTER CODE - USE CODE 0052	70
CURRENT DIRECTION (TOWARD)	ONE-CHARACTER CODE - USE CODE 0096	71
CURRENT SPEED	XX (METERS PER SECOND TO TENTHS)	72
BLANKS		74
SEQUENCE NUMBER	SEE RECORD 'B'	77

BOTTOM TRAWL RECORD	ALWAYS 'D' - THIS RECORD IS TO BE USED ONLY FOR BOTTOM TRAWLS. RECORD TYPE 'E' IS TO BE USED FOR ALL OTHER TYPES OF STUDIES.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
GEAR DEPTH	XXXX (WHOLE METERS) - SAME AS RECORD 'C'	20
GEAR TYPE	TWO-CHARACTER CODE - USE CODE 0129	24
BOTTOM TRAWL TYPE	TWO-CHARACTER CODE - USE CODE 0076	26
BOTTOM TRAWL ACCESSORIES	TWO-CHARACTER CODE - USE CODE 0124	28
OPENING HEIGHT OF TRAWL	XXX (METERS TO TENTHS)	30
OPENING WIDTH OF TRAWL	XXX (METERS TO TENTHS)	33
OVERALL LENGTH	XXX (WHOLE METERS)	36
CODEND LENGTH	XX (WHOLE METERS)	39
FOOT ROPE LENGTH	XX (WHOLE METERS)	41
HEAD ROPE LENGTH	XX (WHOLE METERS)	43
GEAR MATERIAL	ONE-CHARACTER CODE - USE CODE 0078	45
OPENING MESH	ONE-CHARACTER CODE - USE CODE 0130	46
AVERAGE BODY MESH	ONE-CHARACTER CODE - USE CODE 0130	47
CODEND MESH	ONE-CHARACTER CODE - USE CODE 0130	48
CODEND LINER	ONE-CHARACTER CODE - USE CODE 0324	49
NUMBER OF FLOATS	XX	50
FLOAT DIAMETER	XX (WHOLE CENTIMETERS)	52
TICKLER	ONE-CHARACTER CODE - USE CODE 0324	54
ROLLER GEAR	ONE-CHARACTER CODE - USE CODE 0324	55
LENGTH OF BRIDLES	XXX (WHOLE METERS)	56
LENGTH OF DOORS	XX (METERS TO TENTHS)	59
WIDTH OF DOORS	XX (METERS TO TENTHS)	61
WARP LENGTH	XXXX (WHOLE METERS)	63
SCOPE OF WARP	XXXX (WHOLE METERS)	67
BLANKS		71
SEQUENCE NUMBER	SEE RECORD 'B'	77

MISC GEAR RECORD :	ALWAYS 'E' - THIS RECORD IS TO BE USED FOR CATCHES OTHER THAN BOTTOM TRAWL STUDIES. THE GEAR DEPTH FIELD IS REDUNDANT FOR RECORDS C,D,E TO ASSURE THAT THIS INFORMATION IS SUBMITTED IN CASES WHERE NO ENVIRONMENTAL DATA MAY BE AVAILABLE.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
GEAR DEPTH	XXXX (WHOLE METERS) - SAME AS RECORD 'C'	20
GEAR TYPE	TWO-CHARACTER CODE - USE CODE 0129	24
NET DEPTH	XX - DEPTH OF GILLNET SHACKLES OR SEINE (WHOLE METERS)	26
UNIT LENGTH	XXXX - OVERALL LENGTH, LENGTH/SKATE OR LENGTH/SHACKLE (WHOLE METERS)	28
NUMBER OF UNITS	XX - NUMBER OF SKATES, SHACKLES, TROLL LINES, HANDLINES, ETC	32
NUMBER OF SUBUNITS	XX - NUMBER OF GANGION/SKATE, HOOKS/LINE, ETC	34
GEAR MATERIAL	ONE-CHARACTER CODE - USE CODE 0078	36
BAIT/LURE	ONE-CHARACTER CODE - USE CODE 0167	37
TYPE OF LURE	ONE-CHARACTER CODE - USE CODE 0353	38
SEINE MESH - TOWING	ONE-CHARACTER CODE - USE CODE 0130	39

END		
SEINE MESH - UPPER	ONE-CHARACTER CODE - USE CODE 0130	40
SEINE MESH - AVG BODY	ONE-CHARACTER CODE - USE CODE 0130	41
SEINE MESH - BUNT	ONE-CHARACTER CODE - USE CODE 0130	42
SEINE MESH - OUTSIDE	ONE-CHARACTER CODE - USE CODE 0130	43
SEINE MESH - MIDDLE	ONE-CHARACTER CODE - USE CODE 0130	44
SEINE MESH - BAG	ONE-CHARACTER CODE - USE CODE 0130	45
NUMBER OF SHACKLES	XX	46
(1ST GILLNET)		
MATERIAL (1ST GILLNET)	ONE-CHARACTER CODE - USE CODE 0078	48
MESH (1ST GILLNET)	ONE-CHARACTER CODE - USE CODE 0130	49
NUMBER OF SHACKLES	XX	50
(2ND GILLNET)		
MATERIAL (2ND GILLNET)	ONE-CHARACTER CODE - USE CODE 0078	52
MESH (2ND GILLNET)	ONE-CHARACTER CODE - USE CODE 0130	53
NUMBER OF SHACKLES	XX	54
(3RD GILLNET)		
MATERIAL (3RD GILLNET)	ONE-CHARACTER CODE - USE CODE 0078	56
MESH (3RD GILLNET)	ONE-CHARACTER CODE - USE CODE 0130	57
NUMBER OF SHACKLES	XX	58
(4TH GILLNET)		
MATERIAL (4TH GILLNET)	ONE-CHARACTER CODE - USE CODE 0078	60
MESH (4TH GILLNET)	ONE-CHARACTER CODE - USE CODE 0130	61
NUMBER OF SHACKLES -	XX	62
TRAMMEL NET		
OUTER PANEL MATERIAL	ONE-CHARACTER CODE - USE CODE 0078	64
TRAMMEL NET		
OUTER PANEL MESH -	ONE-CHARACTER CODE - USE CODE 0130	65
TRAMMEL NET		
INNER PANEL MATERIAL -	ONE-CHARACTER CODE - USE CODE 0078	66
TRAMMEL NET		
INNER PANEL MESH -	ONE-CHARACTER CODE - USE CODE 0130	67
TRAMMEL NET		
BLANKS		68
SEQUENCE NUMBER	SEE RECORD 'B'	77
TOTAL CATCH RECORD	ALWAYS 'F' - THIS RECORD IS TO BE USED TO	10
	RECORD GENERAL INFORMATION ON CATCHES	
	WITHOUT REGARD TO SPECIES	
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
TOTAL WET WEIGHT OF	XXXXXXXX - WEIGHT OF ALL SPECIES (WHOLE	20
CATCH	GRAMS OR KILOGRAMS TO THOUSANDTHS)	
WEIGHT DETERMINATION	ONE-CHARACTER CODE - USE CODE 0161	29
TOTAL NUMBER	XXXXXX - TOTAL FOR ALL SPECIES	30
NUMBER DETERMINATION	ONE-CHARACTER CODE - USE CODE 0162	36
VOLUME OF CATCH	XXXXX - USED PRIMARILY FOR SMALL CATCHES	37
	(WHOLE MILLILITERS)	
NUMBER OF FISH PER	XXXX - NUMBER FOR ALL SPECIES COMBINED	42
LITER		
NUMBER OF SPECIES	XXXX - NUMBER EXAMINED FROM TOTAL CATCH	46
EXAMINED		
BLANKS		50
SEQUENCE NUMBER	SEE RECORD 'B'	77

LENGTH/FREQUENCY RECORD	ALWAYS 'G' - THIS RECORD PROVIDES FOR REPORTING LENGTH/FREQUENCY DATA FOR INDIVIDUAL SAMPLES OF A GIVEN SPECIES WITHIN EACH HAUL	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	FOUR-CHARACTER FIELD FOR IDENTIFYING SUBSAMPLES OF EACH HAUL	20
BLANKS	BLANKS INSERTED HERE TO ALLOW FOR TAXONOMIC CODE FIELD TO OCCUR IN THE SAME POSITION IN ALL RECORD TYPES	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES - ALSO USED IN RECORDS H THRU Q	28
PREDOMINATE SEX OF SAMPLE	ONE-CHARACTER CODE - USE CODE 0101	40
PREDOMINATE AGE OF SAMPLE	XX - AGE IN YEARS	41
AGE METHOD	ONE-CHARACTER CODE - USE CODE 0090	43
LENGTH OF CLASS	XXXX (WHOLE MILLIMETERS)	44
LENGTH CODE	ONE-CHARACTER CODE - USE CODE 0082	48
LENGTH FREQUENCY	XXXX - NUMBER OF EACH SPECIES IN LENGTH CLASS INDICATED ABOVE	49
LENGTH SAMPLE	ONE-CHARACTER CODE - USE CODE 0169	53
BLANKS		54
SEQUENCE NUMBER	SEE RECORD 'B'	77
AVERAGE CATCH RECORD	ALWAYS 'H' - THIS RECORD IS TO BE USED PRINCIPALLY TO CONVERT HISTORICAL DATA AND DATA THAT USES THE RECORD MODIFIER SCHEME FOR THE EARLIER FILE TYPE 023.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
BLANKS	SAME AS RECORD 'G' NOTE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	28
AVERAGE WET WEIGHT OF CATCH/SPECIES	XXXXXXXX - WEIGHT FOR EACH SPECIES (WHOLE GRAMS OR KILOGRAMS TO THOUSANDTHS)	40
WEIGHT DETERMINATION	ONE-CHARACTER CODE - USE CODE 0161	49
AVERAGE NUMBER IN CATCH/SPECIES	XXXXXX - NUMBER FOR EACH SPECIES	50
NUMBER DETERMINATION	ONE-CHARACTER CODE - USE CODE 0162	56
PREDOMINATE SEX OF CATCH	ONE-CHARACTER CODE - USE CODE 0101	57
PREDOMINATE AGE OF CATCH	XX - AGE IN YEARS	58
AGE METHOD	ONE-CHARACTER CODE - USE CODE 0090	60
NUMBER OF DAYS	XX - NUMBER OF DAYS USED TO DETERMINE THE AVERAGE CATCH	61
NUMBER OF SPECIES EXAMINED	XXXX - NUMBER OF 'H' RECORDS SHOULD EQUAL THE NUMBER OF SPECIES EXAMINED	63
BLANKS		67
SEQUENCE NUMBER	SEE RECORD 'B'	77

	THIS RECORD CAN BE USED TO REPRESENT A SUBSET OF THE CATCH FOR EACH SPECIES IDENTIFIED, COUNTED AND WEIGHED FOR EACH SAMPLE.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
BLANKS	SAME AS RECORD 'G' NOTE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	28
TOTAL WET WEIGHT	XXXXXXXX - TOTAL WET WEIGHT FOR EACH SPECIES (GRAMS OR KILDOGRAMS TO THOUSANDTHS)	40
WEIGHT DETERMINATION	ONE-CHARACTER CODE - USE CODE 0161	49
TOTAL NUMBER FOR SPECIES	XXXXXX - NUMBER FOR EACH SPECIES	50
NUMBER DETERMINATION	ONE-CHARACTER CODE - USE CODE 0162	56
VOLUME OF CATCH	XXXXX - VOLUME FOR INDIVIDUAL SPECIES (WHOLE MILLILITERS)	57
NUMBER OF FISH PER LITER	XXXX - NUMBER FOR INDIVIDUAL SPECIES	62
PREDOMINATE SEX OF EACH SPECIES	ONE-CHARACTER CODE - USE CODE 0101	66
PREDOMINATE AGE OF EACH SPECIES	XX - AGE IN YEARS	67
AGE METHOD	ONE-CHARACTER CODE - USE CODE 0090	69
BLANKS		70
SEQUENCE NUMBER	SEE RECORD 'B'	77
INDIVIDUAL SPECIMEN RECORD (FISH)	ALWAYS 'K' - THIS RECORD IS ONE OF FOUR THAT LINKS DATA TO THE SPECIMEN LEVEL AND IS NEARLY IDENTICAL TO RECORD 'L' FOR CRUSTACEANS. MULTIPLE RECORDS MAY BE SUBMITTED FOR EACH SAMPLE USING THE SPECIMEN NUMBER FIELD.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	FOUR-CHARACTER FIELD - USED TO IDENTIFY INDIVIDUAL SPECIMEN SAMPLES AND TO LINK TO PREDATOR DATA WHERE AVAILABLE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	28
SEX	ONE-CHARACTER CODE - USE CODE 0101	40
SEX MATURITY	ONE-CHARACTER CODE - USE CODE 0091	41
LENGTH OF INDIVIDUAL	XXXX (WHOLE MILLIMETERS)	42
LENGTH CODE	ONE-CHARACTER CODE - USE CODE 0082	46
WET WEIGHT OF INDIVIDUAL	XXXXXXX (GRAMS TO TENTHS)	47
WEIGHT DETERMINATION	ONE-CHARACTER CODE - NOTE DIFFERENT CODE THAN RECORDS 'F' AND 'H' - USE CODE 0163	54
AGE OF INDIVIDUAL	XX - AGE IN YEARS	55
AGE METHOD (STRUCTURE)	ONE-CHARACTER CODE - USE CODE 0090	57



	ONE-CHARACTER CODE - USE CODE 0128	74
	ONE-CHARACTER CODE - USE CODE 0125	75
NUMBER	SEE RECORD 'B'	76
		77
INDIVIDUAL SPECIMEN RECORD (CRUSTACEAN)	ALWAYS 'L' - THIS RECORD IS SIMILAR TO RECORD 'K' FOR FISH DATA. MULTIPLE RECORDS MAY BE SUBMITTED FOR EACH SAMPLE USING THE SPECIMEN NUMBER FIELD.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	FOUR-CHARACTER FIELD - USED TO IDENTIFY INDIVIDUAL SPECIMEN SAMPLES AND TO LINK TO PREDATOR DATA WHERE AVAILABLE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	28
SEX	ONE-CHARACTER CODE - USE CODE 0101	40
SEX MATURITY	ONE-CHARACTER CODE - USE CODE 0091	41
CARAPACE WIDTH	XXXX (WHOLE MILLIMETERS)	42
SHELL CONDITION	ONE-CHARACTER CODE - USE CODE 0132	46
WET WEIGHT OF INDIVIDUAL	XXXXXXX (GRAMS TO TENTHS)	47
WEIGHT DETERMINATION	ONE-CHARACTER CODE - NOTE DIFFERENT CODE THAN RECORDS 'F' AND 'H' - USE CODE 0163	54
AGE OF INDIVIDUAL	XX - AGE IN YEARS	55
AGE METHOD (STRUCTURE)	ONE-CHARACTER CODE - USE CODE 0090	57
AGE DETERMINATION	ONE-CHARACTER CODE - USE CODE 0170	58
SAMPLE TYPE	ONE-CHARACTER CODE - USE CODE 0171	59
DATA TYPE	ONE-CHARACTER CODE - USE CODE 0126	60
CHELAE LENGTH	XXX (WHOLE MILLIMETERS)	61
PETASMA/THELYCUM	ONE-CHARACTER CODE - USE CODE 0345	64
GONAD OR OVARIAN WEIGHT	XXXXX (GRAMS TO HUNDREDTHS)	65
GONAD-SOMATIC INDEX	XXXX (EXPRESSED TO HUNDREDTHS) - RATIO OF GONAD TO WHOLE BODY WEIGHT	70
EGG COLOR	ONE-CHARACTER CODE - USE CODE 0127	74
EGG CONDITION	ONE-CHARACTER CODE - USE CODE 0128	75
CLUTCH SIZE	ONE-CHARACTER CODE - USE CODE 0125	76
SEQUENCE NUMBER	SEE RECORD 'B'	77

INDIVIDUAL PREDATOR RECORD	ALWAYS 'M' - THIS RECORD IS LINKED TO ONE OR MORE PREY RECORDS (RECORD 'N') THROUGH THE SPECIMEN NUMBER. THE RECORD CAN BE USED TO REPORT PREDATOR DATA FOR SPECIMENS THAT MAY NOT HAVE BEEN MEASURED OR IDENTIFIED IN OTHER DATA RECORDS BY USING UNIQUE SPECIMEN NUMBERS.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	SEE RECORD 'K'	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODE TO IDENTIFY PREDATOR SPECIMEN	28
LIFE HISTORY	ONE-CHARACTER CODE TO IDENTIFY LIFE HISTORY OF PREDATOR - USE CODE 0148	40
ORGAN CODE	ONE-CHARACTER CODE TO IDENTIFY ORGAN EXAMINED - USE CODE 0173	41
GUT POSITION	ONE-CHARACTER CODE - USE CODE 0174	42
STOMACH FULLNESS	ONE-CHARACTER CODE TO DESCRIBE FULLNESS OF STOMACH - USE CODE 0092	43
STOMACH DIGESTION	ONE-CHARACTER CODE TO DESCRIBE AMOUNT OF CONTENTS THAT ARE IDENTIFIABLE - USE CODE 0155	44
WET WEIGHT OF SPECIMEN STOMACH CONTENTS	XXXXX - WET WEIGHT FOR SPECIES IDENTIFIED IN TAXONOMIC CODE FIELD (GRAMS TO TENTHS)	45
WEIGHT DETERMINATION	ONE-CHARACTER CODE - USE CODE 0163	50
VOLUME OF TOTAL GUT CONTENTS	XXXX - MILLILITERS TO TENTHS	51
BLANKS		55
SEQUENCE NUMBER	SEE RECORD 'B'	77
PREY RECORD-INDIVIDUAL PREDATOR	ALWAYS 'N' - MULTIPLE RECORDS MAY BE SUBMITTED FOR EACH PREDATOR SPECIMEN. THE PREY/PREY PART CODE MAY RESULT IN SEVERAL RECORDS FOR THE SAME SPECIES CODE.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	SEE RECORD 'K'	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODE TO IDENTIFY PREY SAMPLE OR SAMPLES	28
LIFE HISTORY	ONE-CHARACTER CODE TO IDENTIFY PREDOMINATE LIFE HISTORY OF PREY SAMPLES - USE CODE 0148	40
WET WEIGHT OF PREY SPECIMEN	XXXXX (GRAMS TO HUNDREDTHS)	41
WEIGHT METHOD	ONE-CHARACTER CODE - USE CODE 0156	46
NUMBER OF PREY	XXXX - NUMBER OF INDIVIDUAL SPECIMEN PREY FOR THE SPECIES CODE INDICATED ABOVE	47
NUMBER DETERMINATION	ONE-CHARACTER CODE - USE CODE 0162	51

VOLUME OF PREY	XXXXX - VOLUME OF PREY INDIVIDUALS FOR THE SPECIES CODE INDICATED ABOVE - (MILLILITERS TO TENTHS)	52
PREY OR PREY PART	TWO-CHARACTER CODE TO IDENTIFY PORTION OF PREY SPECIMEN EXAMINED - MULTIPLE RECORDS FOR A SPECIES MAY RESULT IF SIGNIFICANTLY DIFFERENT PREY PARTS CAN BE DETERMINED AND SEPARATELY MEASURED - USE CODE 0231	57
LENGTH OF PREY SIZE	XXXX - MILLIMETERS TO TENTHS	59
PERCENT OF PREY ITEMS	ONE-CHARACTER CODE - USE CODE 0155	63
BLANKS		64
SEQUENCE NUMBER	SEE RECORD 'B'	77
PREDATOR SUMMARY RECORD	ALWAYS 'P' - THIS RECORD CAN BE USED TO REPORT SUMMARY INFORMATION FOR EACH PREDATOR SPECIES	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
BLANKS	SAME AS RECORD 'G' NOTE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE TO IDENTIFY PREDATOR SPECIES - USE NODC TAXONOMIC CODES	28
NUMBER OF STOMACHS POOLED	XXX - NUMBER OF PREDATOR STOMACHS POOLED TO OBTAIN DATA ENTERED IN RECORD 'Q'	40
TOTAL WET WEIGHT	XXXXX - TOTAL WET WEIGHT FOR ALL STOMACH CONTENTS FOR EACH PREDATOR SPECIES (GRAMS TO TENTHS)	43
WEIGHT DETERMINATION	ONE-CHARACTER CODE - USE CODE 0163	48
BLANKS		49
SEQUENCE NUMBER	SEE RECORD 'B'	77
PREY SUMMARY RECORD	ALWAYS 'Q' - THIS RECORD IS ASSOCIATED WITH RECORD 'P' FOR REPORTING SUMMARY DATA FOR EACH PREY SPECIES FOR ANY NUMBER OF STOMACHS POOLED, AS ENTERED IN RECORD 'P'	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
BLANKS	SAME AS RECORD 'G' NOTE	24
TAXONOMIC CODE	TWELVE-CHARACTER CODE TO IDENTIFY PREY SPECIES - USE NODC TAXONOMIC CODES	28
TOTAL WET WEIGHT	XXXXX - TOTAL WET WEIGHT OF PREY SAMPLE FOR EACH SPECIES (GRAMS TO TENTHS)	40
WEIGHT METHOD	ONE-CHARACTER CODE - USE CODE 0156	45
TOTAL NUMBER	XXXXX - TOTAL NUMBER OF PREY ITEMS FOR EACH SPECIES IN THE SAMPLE	46
NUMBER DETERMINATION	ONE-CHARACTER CODE - USE CODE 0162	51
TOTAL VOLUME	XXXXX - TOTAL VOLUME OF ALL PREY ITEMS FOR EACH SPECIES IN THE SAMPLE (WHOLE MILLILITERS)	52

PREY OR PREY PART	TWO-CHARACTER CODE TO IDENTIFY PORTION OF PREY SPECIMEN EXAMINED - MULTIPLE RECORDS FOR A SPECIES MAY RESULT IF SIGNIFICANTLY DIFFERENT PREY PARTS CAN BE DETERMINED AND SEPARATELY MEASURED - USE CODE 0231	57
SMALL PREY WET WEIGHT	XXXXX - WET WEIGHTS FOR VERY SMALL POOLED PREY SAMPLES FOR EACH PREY SPECIES PARTICULARLY SHELLFISH (GRAMS TO HUNDREDTHS)	59
SMALL PREY VOLUME	XXX - VOLUMES OF VERY SMALL POOLED PREY SPECIES FOR EACH PREY SPECIES PARTICULARLY SHELLFISH (ML TO TENTHS)	64
BLANKS		67
SEQUENCE NUMBER	SEE RECORD 'B'	77
TEXT RECORD	ALWAYS 'T' - THE TEXT RECORD CAN BE USED FOR SPECIFIC HAULS, SAMPLES, ETC BY ENTERING THE NUMBERS IN THE RELATED FIELDS AND BY PROPER USE OF SEQUENCE NUMBERS WITHIN A STATION AND A FILE ID.	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	SEE RECORD 'K'	24
TEXT	49-CHARACTER FIELD FOR TEXT OR COMMENTS - MAY BE USED FOR INDIVIDUAL HAULS, SAMPLES OR SPECIMEN BY ENTERING THE NUMBER IN THE PROPER FIELDS - MAY BE LEFT BLANK FOR MORE GENERAL COMMENTS	28
SEQUENCE NUMBER	SEE RECORD 'B'	77
GROWTH RECORD	ALWAYS 'R' - THIS RECORD IS USED FOR GROWTH MEASUREMENTS FROM SCALE FOCUS TO YR ANNULIS	10
STATION NUMBER	SEE RECORD 'B'	11
HAUL NUMBER	SEE RECORD 'B'	17
SAMPLE NUMBER	SEE RECORD 'G'	20
SPECIMEN NUMBER	SEE RECORD 'K'	24
TAXONOMIC CODE	TWELVE-CHARACTER NODC CODE	28

GROWTH MESUREMENT	XXX - 1ST ANNULIS - MM TO TENTHS	40
GROWTH MEASUREMENT	XXX - 2ND ANNULIS - MM TO TENTHS	43
GROWTH MEASUREMENT	XXX - 3RD ANNULIS - MM TO TENTHS	46
GROWTH MEASUREMENT	XXX - 4TH ANNULIS - MM TO TENTHS	49
GROWTH MEASUREMENT	XXX - 5TH ANNULIS - MM TO TENTHS	52
GROWTH MEASUREMENT	XXX - 6TH ANNULIS - MM TO TENTHS	55
GROWTH MEASUREMENT	XXX - 7TH ANNULIS - MM TO TENTHS	58
GROWTH MEASUREMENT	XXX - 8TH ANNULIS - MM TO TENTHS	61
GROWTH MEASUREMENT	XXX - 9TH ANNULIS - MM TO TENTHS	64
GROWTH MEASUREMENT	XXX - 10TH ANNULIS - MM TO TENTHS	67
GROWTH MEASUREMENT	XXX - 11TH ANNULIS - MM TO TENTHS	71
BLANKS		73
CONTINUATION	ONE-CHARACTER CODE - USE CODE 0387	76
SEQUENCE NUMBER	SEE RECORD 'B'	77

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
7601767	F123	TR0758	0081	9000	9099	1974/11/22	01	300928
7601767	F123	TR0759	0081	4900	4999	1973/03/09	02	300929
7601767	F123	TR0760	0081	9000	9099	1975/01/05	000013	300930
7601767	F123	TR0761	0081	9000	9099	1975/02/16	04	300931
7601767	F123	TR0762	0081	9000	9099	1975/03/02	05	300932
7601767	F123	TR0763	0081	4900	4999	1973/10/20	13	300933
7601767	F123	TR0764	0081	4900	4999	1973/12/26	16	300934
7601767	F123	TR0765	0081	4900	4999	1974/02/04	17	300935
7601767	F123	TR0766	0081	4900	4999	1974/02/09	18	300936
7601767	F123	TR0767	0081	4900	4999	1974/03/24	20	300937
7601767	F123	TR0768	0081	4900	4999	1974/04/09	21	300938
7601767	F123	TR0769	0081	4900	4999	1974/04/19	22	300939
7601767	F123	TR0770	0081	4900	4999	1974/05/27	24	300940
7601767	F123	TR0771	0081	4900	4999	1974/07/28	25	300941
7601767	F123	TR0772	0081	4900	4999	1974/08/18	27	300942
7601767	F123	TR0773	0081	4900	4999	1974/08/26	28	300943
7601767	F123	TR0774	0081	4900	4999	1974/09/29	29	300944
7601767	F123	TR0775	0081	4900	4999	1974/10/19	30	300945
7601767	F123	TR0776	0081	4900	4999	1974/10/23	31	300946
7601767	F123	TR0777	0081	4900	4999	1974/12/15	32	300947
7601767	F123	TR0778	0081	4900	4999	1975/04/16	33	300948
7601767	F123	TR0779	0081	4900	4999	1975/04/20	34	300949
7601767	F123	TR0780	0081	4900	4999	1975/05/14	36	300950
7601767	F123	TR0781	0081	4900	4999	1975/05/09	37	300951
7601767	F123	TR0782	0081	4900	4999	1975/06/08	38	300952
7601767	F123	TR0783	0081	4900	4999	1975/07/17	40	300953
7601767	F123	TR0784	0081	4900	4999	1975/08/02	41	300954
7601767	F123	TR0785	0081	4900	4999	1975/08/03	42	300955
7601767	F123	TR0786	0081	4900	4999	1975/08/06	43	300956
7601767	F123	TR0787	0081	4900	4999	1964/08/23	64	300957
7601767	F123	TR0788	0081	4900	4999	1965/04/06	65	300958
7601767	F123	TR0789	0081	4900	4999	1966/04/28	66	300959
7601767	F123	TR0790	0081	4900	4999	1969/06/03	69	300960
7601767	F123	TR0791	0081	31A8	31BN	1961/08/12	21	300961
7601767	F123	TR0792	0081	31A8	31BN	1962/03/19	22	300962
7601767	F123	TR0793	0081	31A8	31BN	1962/06/16	23	300963
7601767	F123	TR0794	0081	31A8	31BN	1962/07/01	24	300964
7601767	F123	TR0795	0081	31A8	31BN	1963/01/28	27	300965
7601767	F123	TR0796	0081	31A8	31BN	1963/07/22	30	300966
7601767	F123	TR0797	0081	31A8	31C7	1969/06/15	NULL	300967
7601767	F123	TR0798	0081	31A8	31PN	1957/06/22	10	300968
7601767	F123	TR0799	0081	31A8	31PN	1958/05/28	13	300969
7601767	F123	TR0800	0081	31A8	31PN	1959/04/24	14	300970
7601767	F123	TR0801	0081	31A8	31PN	1960/06/10	17	300971
7601767	F123	TR0802	0081	31A8	31MI	1955/08/12	02	300972
7601767	F123	TR0803	0081	31A8	31MI	1956/07/06	04	300973
7601767	F123	TR0804	0081	31A8	31KE	1962/08/16	25	300974
7601767	F123	TR0805	0081	31A8	31KE	1962/12/02	26	300975
7601767	F123	TR0806	0081	31A8	31KE	1963/02/11	28	300976
7601767	F123	TR0807	0081	31A8	31KE	1964/03/04	31	300977
7601767	F123	TR0808	0081	31A8	31KE	1965/06/06	34	300978
7601767	F123	TR0809	0081	31A8	31KE	1966/06/20	37	300979
7601767	F123	TR0810	0081	31A8	31KE	1967/01/30	40	300980
7601767	F123	TR0811	0081	31A8	31KE	1968/04/18	43	300981
7601767	F123	TR0812	0081	31A8	31KE	1969/01/13	45	300982
7601767	F123	TR0813	0081	31A8	31KE	1969/04/25	46	300983
7601767	F123	TR0814	0081	31A8	31KE	1969/09/10	47	300984

7601767	F123	TR0815	0081	31A8	31KE	1970/02/01	48	300985
7601767	F123	TR0816	0081	31A8	31KE	1970/04/29	49	300986
7601767	F123	TR0817	0081	31A8	31KE	1970/07/30	50	300987
7601767	F123	TR0818	0081	31A8	31KE	1971/01/24	51	300988
7601767	F123	TR0819	0081	31A8	31KE	1971/04/26	52	300989
7601767	F123	TR0820	0081	31A8	31KE	1971/07/29	53	300990
7601767	F123	TR0821	0081	31A8	31KE	1971/05/26	71	300991
7601767	F123	TR0822	0081	31A8	31KE	1972/04/27	72	300992
7601767	F123	TR0823	0081	31A8	31CX	1956/07/13	07	300993
7601767	F123	TR0824	0081	31A8	31MW	1961/05/05	18	300994
7601767	F123	TR0825	0081	31A8	312T	1957/06/08	09	300995
7601767	F123	TR0826	0081	31A8	312T	1958/06/10	12	300996
7601767	F123	TR0827	0081	31A8	31OP	1970/06/08	NULL	300997
7601767	F123	TR0828	0081	31A8	31PG	1967/06/10	NULL	300998
7601767	F123	TR0829	0081	31A8	31PG	1956/07/12	06	300999
7601767	F123	TR0830	0081	31A8	31PG	1957/07/24	11	301000
7601767	F123	TR0831	0081	31A8	31PG	1960/05/18	16	301001
7601767	F123	TR0832	0081	31A8	31PG	1961/06/09	19	301002
7601767	F123	TR0833	0081	31A8	31PG	1965/06/01	35	301003
7601767	F123	TR0834	0081	31A8	31SM	1966/07/08	39	301004
7601767	F123	TR0835	0081	31A8	31WD	1961/06/10	20	301005
7601767	F123	TR0836	0081	31A8	31BB	1957/07/28	NULL	301006
7601767	F123	TR0837	0081	1800	18RB	1970/03/09	70	301007
7601767	F123	TR0838	0081	31A8	32NI	1968/06/16	NULL	301008
7601767	F123	TR0839	0081	4900	49OS	1955/07/11	NULL	301009
7601767	F123	TR0840	0081	4900	49OS	1963/06/14	04	301010
7601767	F123	TR0841	0081	4900	49OS	1966/06/17	19	301011
7601767	F123	TR0842	0081	4900	49OS	1967/06/14	24	301012
7601767	F123	TR0843	0081	4900	49OS	1968/06/13	28	301013
7601767	F123	TR0844	0081	4900	49OS	1969/06/10	32	301014
7601767	F123	TR0845	0081	4900	49OS	1970/07/19	37	301015
7601767	F123	TR0846	0081	4900	49OS	1958/06/08	42	301016
7601767	F123	TR0847	0081	4900	49OS	1959/06/24	44	301017
7601767	F123	TR0848	0081	4900	49OS	1960/06/22	46	301018
7601767	F123	TR0849	0081	31A8	32RS	1975/05/16	52	301019
7601767	F123	TR0850	0081	31A8	32RS	1975/10/03	55	301020
7601767	F123	TR0851	0081	31A8	32RS	1975/10/30	56	301021
7601767	F123	TR0852	0081	31A8	32RS	1975/12/03	57	301022
7601767	F123	TR0853	0081	31A8	32RS	1976/02/14	61	301023
7601767	F123	TR0854	0081	31A8	32OE	1966/06/06	NULL	301024
7601767	F123	TR0855	0081	31A8	32VQ	1968/06/06	NULL	301025
7601767	F123	TR0856	0081	31A8	31JC	1955/07/01	01	301026
7601767	F123	TR0857	0081	31A8	31JC	1950/08/22	05	301027
7601767	F123	TR0858	0081	31A8	31JC	1953/03/01	15	301028
7601767	F123	TR0859	0081	31A8	31JC	1953/07/07	16	301029
7601767	F123	TR0860	0081	31A8	31JC	1955/06/30	23	301030
7601767	F123	TR0861	0081	31A8	31JC	1957/07/21	33	301031
7601767	F123	TR0862	0081	31A8	31JC	1958/07/22	39	301032
7601767	F123	TR0863	0081	31A8	31JC	1959/10/14	44	301033
7601767	F123	TR0864	0081	31A8	31JC	1961/09/11	52	301034
7601767	F123	TR0865	0081	31A8	31JC	1962/04/23	54	301035
7601767	F123	TR0866	0081	31A8	31CU	1974/05/28	43	301036
7601767	F123	TR0867	0081	31A8	31CU	1975/04/11	51	301037
7601767	F123	TR0868	0081	31A8	31CU	1975/07/04	53	301038
7601767	F123	TR0869	0081	31A8	31CU	1975/07/29	54	301039
7601767	F123	TR0870	0081	31A8	31OE	1949/08/29	03	301040
7601767	F123	TR0871	0081	31A8	31TO	1956/05/25	05	301041
7601767	F123	TR0872	0081	31A8	31TO	1959/05/25	15	301042
7601767	F123	TR0873	0081	31A8	31TO	1957/07/18	32	301043
7601767	F123	TR0874	0081	31A8	3199	1948/09/21	01	301044

7601767 F123 TR0875 0081 31A8 32D3

1949/06/24 02

301045

(118 rows affected)



Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	----	-----	----	-----	-----	-----	-----
7601767	F123	TR0758	9099	10	32	74/11/22	74/12/01
7601767	F123	TR0759	4999	39	54	73/03/09	73/04/01
7601767	F123	TR0760	9099	13	82	75/01/05	75/02/24
7601767	F123	TR0761	9099	8	22	75/02/16	75/02/27
7601767	F123	TR0762	9099	13	29	75/03/02	75/03/14
7601767	F123	TR0763	4999	27	62	73/10/20	73/11/15
7601767	F123	TR0764	4999	21	50	73/12/26	74/01/19
7601767	F123	TR0765	4999	20	45	74/02/04	74/02/25
7601767	F123	TR0766	4999	30	63	74/02/09	74/03/11
7601767	F123	TR0767	4999	15	36	74/03/24	74/04/10
7601767	F123	TR0768	4999	30	71	74/04/09	74/05/08
7601767	F123	TR0769	4999	28	61	74/04/19	74/05/16
7601767	F123	TR0770	4999	27	56	74/05/27	74/06/23
7601767	F123	TR0771	4999	27	80	74/07/28	74/08/26
7601767	F123	TR0772	4999	24	60	74/08/18	74/09/10
7601767	F123	TR0773	4999	32	67	74/08/26	74/09/26
7601767	F123	TR0774	4999	24	50	74/09/29	74/10/26
7601767	F123	TR0775	4999	8	39	74/10/19	74/11/17
7601767	F123	TR0776	4999	28	61	74/10/23	74/11/24
7601767	F123	TR0777	4999	18	40	74/12/15	75/01/02
7601767	F123	TR0778	4999	7	17	75/04/16	75/04/24
7601767	F123	TR0779	4999	23	48	75/04/20	75/05/15
7601767	F123	TR0780	4999	22	56	75/05/14	75/06/04
7601767	F123	TR0781	4999	41	84	75/05/09	75/06/18
7601767	F123	TR0782	4999	36	78	75/06/08	75/07/13
7601767	F123	TR0783	4999	23	51	75/07/17	75/08/12
7601767	F123	TR0784	4999	30	63	75/08/02	75/09/01
7601767	F123	TR0785	4999	29	60	75/08/03	75/08/31
7601767	F123	TR0786	4999	20	55	75/08/06	75/08/25
7601767	F123	TR0787	4999	48	153	64/08/23	64/10/16
7601767	F123	TR0788	4999	29	104	65/04/06	65/05/08
7601767	F123	TR0789	4999	24	77	66/04/28	66/05/24
7601767	F123	TR0790	4999	12	38	69/06/03	69/06/14
7601767	F123	TR0791	31BN	26	129	61/08/12	61/09/29
7601767	F123	TR0792	31BN	4	14	62/03/19	62/03/24
7601767	F123	TR0793	31BN	4	15	62/06/16	62/06/20
7601767	F123	TR0794	31BN	9	40	62/07/01	62/09/02
7601767	F123	TR0795	31BN	1	4	63/01/28	63/01/28
7601767	F123	TR0796	31BN	30	126	63/07/22	63/09/13
7601767	F123	TR0797	31C7	70	405	69/06/15	69/08/27
7601767	F123	TR0798	31PN	6	24	57/06/22	57/09/07
7601767	F123	TR0799	31PN	10	37	58/05/28	58/08/20
7601767	F123	TR0800	31PN	9	33	59/04/24	59/06/28
7601767	F123	TR0801	31PN	9	34	60/06/10	60/08/26
7601767	F123	TR0802	31MI	1	4	55/08/12	55/08/12
7601767	F123	TR0803	31MI	13	45	56/07/06	56/09/16
7601767	F123	TR0804	31KE	15	72	62/08/16	62/09/24
7601767	F123	TR0805	31KE	1	4	62/12/02	62/12/02
7601767	F123	TR0806	31KE	3	10	63/02/11	63/03/07
7601767	F123	TR0807	31KE	1	4	64/03/04	64/03/04
7601767	F123	TR0808	31KE	15	50	65/06/06	65/07/02
7601767	F123	TR0809	31KE	31	110	66/06/20	66/08/29
7601767	F123	TR0810	31KE	9	30	67/01/30	67/03/11
7601767	F123	TR0811	31KE	14	51	68/04/18	68/06/15
7601767	F123	TR0812	31KE	9	28	69/01/13	69/02/11
7601767	F123	TR0813	31KE	10	32	69/04/25	69/05/27

7601767	F123	TR0814	31KE	3	15	69/09/10	69/09/12
7601767	F123	TR0815	31KE	4	14	70/02/01	70/03/01
7601767	F123	TR0816	31KE	1	4	70/04/29	70/04/29
7601767	F123	TR0817	31KE	9	34	70/07/30	70/08/31
7601767	F123	TR0818	31KE	4	13	71/01/24	71/02/15
7601767	F123	TR0819	31KE	2	7	71/04/26	71/04/28
7601767	F123	TR0820	31KE	5	27	71/07/29	71/08/06
7601767	F123	TR0821	31KE	92	412	71/05/26	71/11/02
7601767	F123	TR0822	31KE	66	292	72/04/27	72/05/10
7601767	F123	TR0823	31CX	25	101	56/07/13	56/09/17
7601767	F123	TR0824	31MW	11	40	61/05/05	61/08/16
7601767	F123	TR0825	312T	29	99	57/06/08	57/08/18
7601767	F123	TR0826	312T	20	68	58/06/10	58/08/27
7601767	F123	TR0827	31OP	44	209	70/06/08	70/09/15
7601767	F123	TR0828	31PG	33	130	67/06/10	67/07/26
7601767	F123	TR0829	31PG	14	47	56/07/12	56/09/08
7601767	F123	TR0830	31PG	14	50	57/07/24	57/08/18
7601767	F123	TR0831	31PG	20	79	60/05/18	60/07/25
7601767	F123	TR0832	31PG	18	67	61/06/09	61/06/30
7601767	F123	TR0833	31PG	20	72	65/06/01	65/07/02
7601767	F123	TR0834	31SM	19	70	66/07/08	66/08/31
7601767	F123	TR0835	31WD	23	90	61/06/10	61/09/03
7601767	F123	TR0836	31BB	47	266	57/07/28	57/09/14
7601767	F123	TR0837	18RB	55	199	70/03/09	70/05/17
7601767	F123	TR0838	32NI	19	71	68/06/16	68/08/01
7601767	F123	TR0839	49OS	32	144	55/07/11	56/08/13
7601767	F123	TR0840	49OS	8	57	63/06/14	63/06/30
7601767	F123	TR0841	49OS	41	142	66/06/17	66/07/22
7601767	F123	TR0842	49OS	28	120	67/06/14	67/08/18
7601767	F123	TR0843	49OS	62	214	68/06/13	68/08/01
7601767	F123	TR0844	49OS	74	266	69/06/10	69/08/03
7601767	F123	TR0845	49OS	15	59	70/07/19	70/07/25
7601767	F123	TR0846	49OS	7	36	58/06/08	58/06/17
7601767	F123	TR0847	49OS	9	43	59/06/24	59/07/10
7601767	F123	TR0848	49OS	15	65	60/06/22	60/07/28
7601767	F123	TR0849	32RS	31	95	75/05/16	75/05/29
7601767	F123	TR0850	32RS	21	102	75/10/03	75/10/04
7601767	F123	TR0851	32RS	35	127	75/10/30	75/11/04
7601767	F123	TR0852	32RS	22	79	75/12/03	75/12/07
7601767	F123	TR0853	32RS	22	74	76/02/14	76/02/19
7601767	F123	TR0854	32OE	43	384	66/06/06	67/08/15
7601767	F123	TR0855	32VQ	12	44	68/06/06	68/07/19
7601767	F123	TR0856	31JC	47	185	55/07/01	55/09/13
7601767	F123	TR0857	31JC	10	33	50/08/22	50/09/05
7601767	F123	TR0858	31JC	74	252	53/03/01	53/04/01
7601767	F123	TR0859	31JC	8	30	53/07/07	53/07/28
7601767	F123	TR0860	31JC	52	200	55/06/30	55/09/13
7601767	F123	TR0861	31JC	55	226	57/07/21	57/08/24
7601767	F123	TR0862	31JC	109	430	58/07/22	58/08/27
7601767	F123	TR0863	31JC	101	386	59/10/14	59/11/11
7601767	F123	TR0864	31JC	64	253	61/09/11	61/10/15
7601767	F123	TR0865	31JC	82	270	62/04/23	62/06/01
7601767	F123	TR0866	31CU	106	339	74/05/28	74/06/23
7601767	F123	TR0867	31CU	101	361	75/04/11	75/05/07
7601767	F123	TR0868	31CU	63	207	75/07/04	75/07/21
7601767	F123	TR0869	31CU	60	196	75/07/29	75/08/07
7601767	F123	TR0870	31OE	7	25	49/08/29	49/09/05
7601767	F123	TR0871	31TO	36	120	56/05/25	56/09/21
7601767	F123	TR0872	31TO	20	76	59/05/25	59/07/26
7601767	F123	TR0873	31TO	97	341	57/07/18	57/10/01

7601767	F123	TR0874	3199	24	52	48/09/21	48/10/14
7601767	F123	TR0875	32D3	14	46	49/06/24	49/07/06

(118 rows affected)