

90003

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000139 Reference No.: TV6043
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape

Exchange Format: E056 - Marine Animal Sightings & Census (F127)

Processing Format: F127 - Marine Animal Sighting and Census

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 31SW Country/Platform Code: 3191

Platform Type (DINDB): 01 - Aircraft Orig. Cruise ID: 890001-3

Cruise Start Date: 09/20/89 Project Code:

Cruise End Date: 11/03/89 Data Use Code (DUC): 3

Number of Stations: 338 Number of Records: 4,473

If stations/records not appropriate then:

Number: Units:

Ocean Area:

Code 1: 12 Meaning: Chukchi Sea
Code 2: Meaning:
Code 3: Meaning:

DINDB Transaction Date:

159

ACCESSION NO. 9000139 FILETYPE F127 ~~1010~~ TRACK NO. _____ PROJECT IDENTIFICATION _____

Distribution of Chukchi Sea Whales

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	6/28/90	MEC	1010 * 1		80	212 1000	4473
DUPLICATE TAPE	10/8/90	MEC	* 2				
REFORMATTED TAPE DUPL.	2-22-91	R.P.S.	W08674 **	1	80	8000	4473
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: ¹ VAX: ~~DEC1 [MITCHELL.OrigData.9000139]~~.01
 .02
 .03

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.) ² Darnus: ~~DNODE * WHALE 1.~~
~~DNODE * WHALE 2.~~
~~DNODE * WHALE 3.~~

OUT
 ** LABEL: DNODE * 9000139 DAT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D127P

Initially tape sent but data could not be read -
 replaced by through the VAX.

ACCESSION
NUMBER

9000139

DATA DOCUMENTATION FORM

A01209

NOAA FORM 24-13
(2-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 0648-0024
EXPIRES 2/29/87

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA WERE COLLECTED</p> <p>Sue E. Moore SAIC/SEACO 2845-D Nimitz San Diego, CA 92106-2343</p> <p>(SAIC = Science Applications International Corp)</p>																			
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>Monitoring the Distribution of Chukchi Sea Whales (Minerals Management Service Contract #14-35-0001-30468 to SAIC/SEACO)</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>File Identifier (Cruise Id.)</p> <p>890001 (890920) 890002 (891001) 890003 (891101)</p> <p>(See APPENDIX 1 for more information)</p>																	
<p>4. PLATFORM NAME(S)</p> <p>Grumman Super Goose</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>Airplane</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <table border="1"> <thead> <tr> <th>PLATFORM</th> <th>OPERATOR</th> <th>FROM: MO/DAY/YR</th> <th>TO: MO/DAY/YR</th> </tr> </thead> <tbody> <tr> <td>U.S.</td> <td>U.S.</td> <td>9/20/89</td> <td>9/30/89</td> </tr> <tr> <td></td> <td></td> <td>10/1 /89</td> <td>10/31/89</td> </tr> <tr> <td></td> <td></td> <td>11/1 /89</td> <td>11/3 /89</td> </tr> </tbody> </table>	PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR	U.S.	U.S.	9/20/89	9/30/89			10/1 /89	10/31/89			11/1 /89	11/3 /89	<p>7. DATES</p>
PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR																
U.S.	U.S.	9/20/89	9/30/89																
		10/1 /89	10/31/89																
		11/1 /89	11/3 /89																
<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p>GENERAL AREA</p>																	
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</p> <p>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>		<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>Sue Moore (619)225-8631 Karen Miller McClune Sea World Research Institute 1700 South Shores Rd. San Diego, CA 92109 (619)226-3870</p>																	



B. SCIENTIFIC CONTENT

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

EXAMPLE (HYPOTHETICAL INFORMATION)

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

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

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
latitude	originally measured in degrees, decimal minutes	Global Navigation System 500		converted to degrees, minutes, seconds
longitude	originally measured in degrees, decimal minutes	Global Navigation System 500		converted to degrees, minutes, seconds
altitude	originally measured in feet	onboard radar altimeter*		converted to meters
sea state	Beaufort scale (≤ 8)	see <u>Piloting, Seamanship and Small Boat Handling</u> (Chapman, 1971)		
water depth	originally reported as fathoms		Automated depth analysis computer program (DEPTH) based on NOAA chart grid sizes of 5 minutes x 20min.	converted to meters
**Clinometer angle (angle between the horizon and an imaginary line to the sighting when the platform was abeam of the animals)	degrees	Clinometer		Used to calculate <u>distance of animal from platform</u> (perpendicular distance): $x = H \tan (90 - \alpha)$ where x is perpendicular distance, H is altitude and α is clinometer angle)
animal or group heading (swim direction)	degrees (magnetic)	onboard compass*		

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
ice coverage (octas of moderate ice)	originally reported as percent cover			converted to octas of ice
<p>* Type and model unknown -- see Office of Aircraft Services, U.S. Department of the Interior which provided the aircraft.</p> <p>** This data field was not reported directly but used to calculate distance of animal from platform.</p> <p style="text-align: center;">SEE APPENDIX 2</p>				

C. DATA FORMAT

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

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

C. DATA FORMAT

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

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

File type OCSEAP 127 -- all record types (A,B,C,D,E,F,T) used. Identify each record type by the letter code in column 10. There is only one T records per cruise and it is placed at the end of the file.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Line transect aerial survey data divided into cruises by month.

Transects are identified by platform activity (C)=04; sightings outside transect strip have distance from platform (D)=0. Other data (ie. connect legs and search surveys) are identified by platform activity =09. All ice characteristics and octas are listed as moderate (actual thickness unknown). Behavior 2 (F) indicates speed of animal travel; behavior 3 indicates possible response to aircraft.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Karen Miller McClune/Ann Bowles (619)226-3870

ADDRESS Sea World Research Institute, 1700 S. Shores Rd., San Diego, CA 92109

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____		9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 1/2 inch
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____		10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Moore, SAIC/SEACO, San Diego, CA. OCSEAP 127 format of Distribution of Chukchi Sea Whales, 1989
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____		
		12. PHYSICAL BLOCK LENGTH IN BYTES <u>80</u>
		13. LENGTH OF BYTES IN BITS 8

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
	CODED AS OCSEAP 127			(See Appendix 3)	

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		
	CODED AS OCSEAP 127			(See Appendix 3)	

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
	CODED AS	OCSEAP	FILETYPE 127	(See	Appendix 3)

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		
					<p>CODED AS OCSEAP FILETYPE 127 (See Appendix 3)</p>

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
			N/A						

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: NODC
1825 Connecticut Ave NW
Washington, DC 20235REFER TO
SeaWprldATTENTION
Francis Mitchell

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

☐ ORDINARY
MAIL☐ REGISTERED
MAIL☒ AIR
MAIL☐ CERTIFIED
MAIL☐ GOVERNMENT
TRUCK☐ BY HAND☐ OTHER

Enclosed is a tape, DDF and list of stations for the FT127 data sets on
nine track tape.



FORWARDED BY (Signature)

Michael L. Crane

TITLE

Arctic and Alaska L.O.

DATE FORWARDED

6/20/90

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

NOAA FORM 24-23
(1-76)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER

A00 DATA CENTER

OCEANOGRAPHY - GENERAL CRUISE INVENTORY
(ROSCOP - II)

A40 REFERENCE NUMBER

A01 EXPEDITION/PROJECT 89001 Monitoring the distribution of Chukchi Sea Whales		YES	NO	PART	
A11 CRUISE NUMBER OR NAME 1989 Field Season		A91 Declared national program?		X	
A02 SHIP OR PLATFORM 05 Aircraft		A81 Exchange restricted?		X	
A12 PLATFORM TYPE Grumman Supergoose N780		A92 Co-operative program?		X	A72 NAME
A03 COUNTRY U.S.		A04 ORGANIZATION Minerals Management Service/Alaska OCS		X	A62 BY WHOM?
		A05 CHIEF SCIENTIST(S) Sue E. Moore (MS)			

A06 NAME AND ADDRESSES OF ORGANIZATIONS AND PERSONS
WHOM TO QUERY

FINAL DISPOSITION OF DATA

A1 Sue E. Moore, SEACO, 2845-D Nimitz,	A2 NODC, 1825 Connecticut Ave. NW,
XX San Diego, CA 92106	XX Washington D.C. 20235
C1 Karen Miller McClune, Sea World	C2
XX Research Institute, 1700 S. Shores	D2
XX Rd., San Diego CA 92109	E2

DATE	DAY	MONTH	YEAR	A08 GENERAL OCEAN AREAS
A07 FROM	2	0	0	12 Chukchi Sea
A17 TO	0	3	1	A09 TYPE(S) OF MARINE ZONE(S) 07, 08, 09 (continental shelf, margin & open ocean)

GEOGRAPHIC AREA

A10 LATITUDE

A20 LONGITUDE

If all data were collected at a fixed station, fill in the co-ordinates

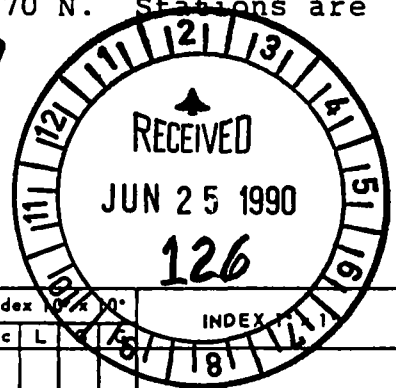
N/S E/W

A15 FEDERAL SUPPORT Minerals Management Service

A25 REMARKS

Supported by Contract 14-35-0001-30468 to SAIC/SEACO, Dr. Jerome Montague, COTR. Flights in area bounded by 151°W 74°N and 151°W 70°N, 169°W 65° and 169°W 74°N, and 160°W 70°N. Stations are the beginnings of transect lines.

AC-119 9000139



DISCIPLINE AND TYPE OF MEASUREMENTS	Index 10' x 10'				INDEX 1' x 1'	DISCIPLINE AND TYPE OF MEASUREMENTS	Index 10' x 10'				INDEX 1' x 1'
	Qc	L	G	G			Qc	L	G	G	
B61, A B26, B52, B57B	7	6	1	6		A	B				
B61, A B26, B52, B57B	7	7	1	6		A	B				
B61, A B26, B52, B57B	7	7	1	5		A	B				
A B						A	B				
A B						A	B				
A B						A	B				
A B						A	B				

[illegible]

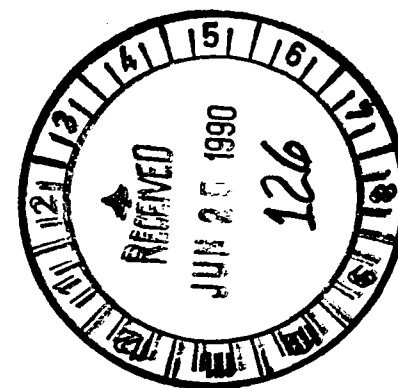
H - HYDROGRAPHY											
HS SURFACE		NUMBER	i	l	FORMAT	HC CHEMICAL		NUMBER	i	l	FORMAT
H01	Continuous temperature recording					H26	Silicates				
H02	Continuous salinity recording					H27	Alkalinity				
H03	Discrete temperature measurements					H28	pH				
H04	Discrete salinity measurements					H29	Chlorinity				
NEAR SEA FLOOR (≤ 10 m)						H30	Trace elements				
H05	Continuous temperature recording					H31	Radioactivity				
H06	Continuous salinity recording					H32	Isotopes				
H07	Discrete temperature measurements					H33	Dissolved gases				
H08	Discrete salinity measurements					H90	Other measurements				
HP PHYSICAL											
H09	Classical oceanographic stations										
H10	Vertical profiles (STD/CTD)					P - POLLUTION					
H11	Sub-surface measurements underway					P01	Suspended solids				
H12	Mechanical bathythermograph (No. of drops)					P02	Heavy metals				
H13	Bathythermograph-expendable (No. of drops)					P03	Petroleum residues				
H14	Sound velocity stations					P04	Chlorinated hydrocarbons				
H15	Acoustic stations					P05	Other dissolved substances				
H16	Transparency					P06	Thermal pollution				
H17	Optics					P07	Waste water: BOD				
H18	Diffusion (Dynamic)					P08	Waste water: Nitrates				
H80	Other measurements					P09	Waste water: Microbiology				
						P10	Waste water: Other				
						P11	Discolored water				
						P12	Bottom deposits				
HC CHEMICAL						P13	Contaminated organisms				
H21	Oxygen					P90	Other measurements				
H22	Phosphates										
H23	Total-P										
H24	Nitrates										
H25	Nitrites										

B - BIOLOGY

	NUMBER			FORMAT		NUMBER			FORM
B01 Primary productivity					B31 Vitamin concentrations				
B02 Phytoplankton pigments					B32 Amino acid concentration				
B03 Seston					B33 Hydrocarbon concentrations				
B04 Particulate organic carbon					B34 Lipid concentrations				
B05 Particulate organic nitrogen					B35 ATP-ADP-AMP concentrations				
B06 Dissolved organic matter					B36 DNA-RNA concentrations				
B07 Bacterial and pelagic micro-organisms					B37 Taggings				
B08 Phytoplankton					B80 Other measurements				
B09 Zooplankton									
B10 Neuston					BS TYPES OF STUDIES				
B11 Nekton					B51 Identification				
B12 Invertebrate nekton					B52 Spatial and temporal distribution	153	A1	A2	7
B13 Pelagic eggs and larvae					B53 Monitoring and surveillance				
B14 Pelagic fish					B54 Biomass determination				
B15 Amphibians					B55 Description of communities				
B16 Benthic bacteria and micro-organisms					B56 Food chains energy transfers				
B17 Phytobenthos					B57 Population and environments	153	A1	A2	7
B18 Zoobenthos					B58 Population structures				
B19 Commercial demersal fish					B59 Taxonomy, systematics, classification				
B20 Commercial benthic molluscs					B60 Physiology				
B21 Commercial benthic crustacean					B61 Behaviour	153	A1	A2	7
B22 Attached plants and algae					B62 Pathology, parasitology				
B23 Intertidal organisms					B63 Toxicology				
B24 Borers and foulers					B64 Gear research				
B25 Birds					B65 Exploratory fishing				
B26 Mammals and reptiles	153	A1	A2	7	B66 Commercial fishing				
B27 Deep scattering layers					B67 Aquaculture				
B28 Acoustical reflections on marine organisms					B90 Other measurements				
B29 Biologic sounds									
B30 Bioluminescence									

127 890001 1230 RECORDS 97 STATIONS DATES 890920 THRU 890930
127 890002 2989 RECORDS 214 STATIONS DATES 891001 THRU 891031
127 890003 254 RECORDS 27 STATIONS DATES 891101 THRU 891103
TOTAL RECORDS= 4473

338



SEA WORLD
RESEARCH INSTITUTE

HUBBS MARINE
RESEARCH CENTER

1700 South Shores Road
San Diego, California 92109

619/226-3870



March 23, 1990

Michael Crane
NOAA
707 A Street
Anchorage, AK 99501

Dear Mr. Crane:

Please find enclosed the Data Documentation Form (DDF) and a magnetic tape with the data that we are submitting for Sue Moore of SAIC\SEACO. This data was collected and analyzed by SAIC\SEACO under the study name "Monitoring the Distribution of Chukchi Sea Whales" for Minerals Management Service (contract # 14-35-0001-30468, Jerome Montague, Minerals Management Service COTR.)

Details on the tape and data format are included in the DDF and associated appendices.

As per my telephone conversation with you on March 22, I understand that your office will review this data and then send it on to Washington for final NODC submission.

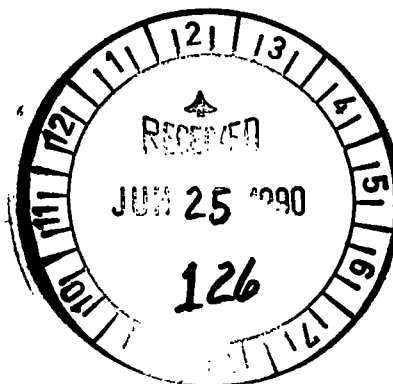
Please be advised that there was some confusion between myself and Sue Moore about where this data was to be submitted. She had spoken with Nancy Nicolaisen (in the NOAA office in the federal building across town from you) and discussed sending the data to her. I believe that she later notified Nancy that it would instead be routed to you as you had been the primary contact, but you might want to give Nancy a call when you have the package in hand.

Thank you for your assistance. I can be reached at (619) 226-3870 if you have any questions about this submission.

Sincerely,

Karen W. Miller McClune

cc: A. Bowles
J. Montague
S. Moore



SEA WORLD
RESEARCH INSTITUTE

HUBBS MARINE
RESEARCH CENTER

1700 South Shores Road
San Diego, California 92109

619/226-3870



March 30, 1990

Michael Crane
NOAA
707 A Street
Anchorage, AK 99501

Dear Mr. Crane:

Please find enclosed our second tape submission for SAIC\SEACO under the study name "Monitoring the Distribution of Chukchi Sea Whales" for Minerals Management Service (contract # 14-35-0001-30468).

As per your instructions, this tape has been formatted as 80 characters plus a carriage return per record and 20 records per block (1620-byte blocks). If this format works fine for you, I'd appreciate it if you would send the second tape and envelope labelled "Jerome Montague" to the MMS COTR at:

Dr. Jerome Montague
Minerals Management Service/Alaska OCS
949 East 36th Avenue, Room 110
Anchorage, AK 99508-4302

I will give you a call next week to make sure all is well. You can reach me at (619) 226-3870 if you have any questions.

Sincerely,

Karen W. Miller McClune

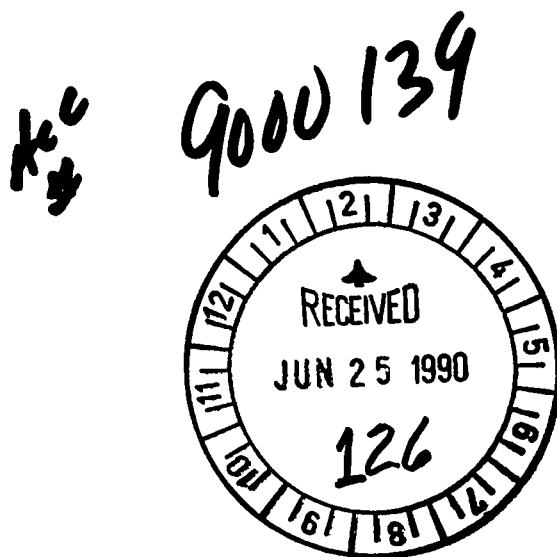
cc: A. Bowles
S. Moore



APPENDIX 1

File and Cruise Specifications for Aerial Surveys Monitoring the Distribution of Chukchi Sea Whales, 1989

File Identifier	File Name (on tape)	Platform Name	Cruise Id	Start Date	End Date	Number of Records per File
890001	8901.DAT	Grumman Goose	890920	9/20/89	9/30/89	1230
890002	8902.DAT	Grumman Goose	891001	10/1/89	10/31/89	2989
890003	8903.DAT	Grumman Goose	891101	11/01/89	11/3/89	254



APPENDIX 2

SEACO/SAIC Chukchi Sea Aerial Survey Data Code Sheet, 1989 (Including OCSEAP Filetype 127 Equivalents)

Field Number	Column	Digits in Field	Field Name	Description/Codes	Converted to Filetype 127 data field (record type)
1	1- 3	3	Entry Number	Sequential number within a flight	
2	4- 7	4	Greenwich Mean Time		begin time (B), end time (B), time (D)
3	8-12	5	Latitude	(degrees, decimal minutes)	begin latitude (B), end latitude (B), latitude (D)
4	13-18	6	Longitude	(degrees, decimal minutes)	begin longitude (B), end longitude (B), longitude (D)
5	19-22	4	Altitude	(ft)	
	(23)		(blank)		
6	24-25	2	Reason for entry	0 = flight aborted 1 = sighting on transect 2 = sighting off transect 3 = sighting on search survey 4 = start transect 5 = end transect 6 = position update 7 = sonabuoy drop 8 = resume transect 9 = divert transect	Multiple records behavior 1 (F) leg made good =N(B)
7	26-27	2	Flag	1 = on transect leg 2 = connect transect leg 3 = search survey 4 = behavioral circling 5 = deadhead	Multiple records
8	28-29	2	Weather	1 = clear 2 = partly cloudy 3 = fog 4 = overcast 5 = precipitation 6 = low ceiling 7 = haze 8 = glare	weather (C), cloud amount (C), glare amount (C)

Field Number	Column	Digits in Field	Field Name	Description/Codes	Converted to Filetype 127 data field (record type)
9	30-31	2	Visibility right	0 = unacceptable 1 = < 1 km 2 = 1-2 km 3 = 2-3 km 4 = 3-5 km 5 = 5-10 km 6 = unlimited	surface visibility (C)
10	32-33	2	Visibility left	0 = unacceptable 1 = < 1 km 2 = 1-2 km 3 = 2-3 km 4 = 3-5 km 5 = 5-10 km 6 = unlimited	
11	34-36	3	Ice coverage	(% averaged over 1 sq. km.)	octas of moderate ice (C)
12	37-38	2	Ice type	0 = no ice 1 = floe 2 = broken floe 3 = pack 4 = pack/floe 5 = grease/new 6 = shorefast 7 = lead	characteristics of moderate ice (C), ice type (C)
13	39-40	2	Beaufort	0 = B0. glassy; < 1 knot 1 = B1. lt ripple; 1-3 knots 2 = B2. small waves; 4-6 knots 3 = B3. scattered caps; 7-10 knots 4 = B4. numerous caps; 11 -16 knots 5 = B5. many caps; 17-21 knots 6 = B6. all caps; 22-27 knots 7 = B7. breaking waves; 28-33 knots 8 = B8. foam; 34-40 knots 9 = B9. not applicable	sea state (C)

Field Number	Column	Digits in Field	Field Name	Description/Codes	Converted to Filetype 127 data field (record type)
19	54-55	2	Behavior	0 = none 1 = dive 2 = rest 3 = swim 4 = mate 5 = feed 6 = mill 7 = spy hop 8 = breach 9 = roll 10 = slap 11 = underwater blow 12 = cow/calf 13 = dead	behavior 1 (F)
20	56-58	3	Total number		total number (E), number of individuals (F)
21	59-60	2	Size	0 = unknown 1 = calf of the year 2 = immature 3 = adult 4 = large adult	used to calculate number of individuals per age class (total #, adults, subadults, juveniles, unknown; E,F)
22	61-62	2	Calf number seen		number of juveniles (E, F)
(23)			(empty)		
24	63-65	3	Swim direction	(degrees, magnetic)	animal heading (D)
25	66-67	2	Swimming speed of animal	0 = unknown 1 = still; 0 knots 2 = slow; < 1 knot 3 = medium; 1-3 knots 4 = fast; > 3 knots	behavior 2 (F)
26	68-69	2	Aircraft response?	1 = yes 2 = no 3 = unknown	behavior 3 (F)
27	70-71	2	Repeat sighting	1 = yes 2 = no	
	(72)		(break)		
28	73-75	3	Flight number		
29	76-77	2	Month of year		date (B,D)
30	78-79	2	Day of month		date (B,D)

FILE TYPE 127 - MARINE ANIMAL SIGHTING AND CENSUS - 02/25/80 VERSION

NOTES AND CORRECTIONS

THIS FORMAT IS DESIGNED TO SUPPORT STUDIES OF BIOLOGICAL POPULATIONS AND ECOSYSTEMS THAT ARE SUBJECT TO IMPACT FROM OIL AND GAS DEVELOPMENT, MARINE POLLUTION AND OTHER ENVIRONMENTAL DISTURBANCES. INFORMATION ON MARINE ANIMAL POPULATIONS, ACTIVITIES, MIGRATORY ROUTES AND BREEDING LOCALES OBTAINED FROM EITHER SURFACE SHIP OR AIRCRAFT SURVEYS CAN BE DERIVED FROM INFORMATION SUBMITTED IN THIS FORMAT.

THE FORMAT CONSISTS OF SEVEN RECORDS FOR REPORTING CRUISE AND PLATFORM INFORMATION AND RELATED ENVIRONMENTAL AND LOCATION DATA FOR EACH SIGHTING. SIGHTINGS CAN BE DESCRIBED FOR ENTIRE TRANSITS OR FOR INDIVIDUAL OBSERVATIONS. FIELDS ARE INCLUDED FOR REPORTING TOTAL COUNTS AND NUMBER OF ADULTS, JUVENILES, MALES, FEMALES, ETC FOR EACH TAXONOMIC SPECIES. A RECORD IS INCLUDED FOR REPORTING ONLY TOTAL COUNTS OF ANIMALS FOR EACH SIGHTING IN CONTRAST WITH THE RECORD WHICH PERMITS GROUPING OF SUBSETS OF THE ANIMALS SIGHTED BY BEHAVIOR, SEX, ETC. A TEXT RECORD ALSO IS AVAILABLE FOR COMMENTS.

ALL RECORDS IN THIS FORMAT ARE 80 CHARACTERS IN LENGTH. THE FILE IS SORTED BY STATION NUMBER AND SEQUENCE NUMBER TO OBTAIN THE PROPER SEQUENCE OF RECORDS. A SIGHTING NUMBER FIELD CAN BE USED TO SORT THE DATA FURTHER WHERE APPROPRIATE.

THIS FORMAT IS DESIGNED TO ACCOMMODATE ALL MARINE ANIMAL SIGHTING AND CENSUS SURVEY DATA FOR INCORPORATION IN THE NODC MARINE ENVIRONMENTAL DATA BASE. IT IS CONTEMPLATED THAT MOST DATA SUBMITTED IN EARLIER MARINE ANIMAL SIGHTING FORMATS (FILE TYPES 026 AND 027) EVENTUALLY WILL BE CONVERTED TO FILE TYPE 127 AND THAT MOST INVESTIGATORS WILL USE FILE TYPE 127 FOR FUTURE DATA SUBMISSIONS TO THE DATA CENTER.

THE FIRST NINE COLUMNS FOR ALL RECORDS ARE TO BE USED FOR FILE TYPE (COLUMNS 1-3) AND FILE IDENTIFIER (COLUMNS 4-9). THE FILE IDENTIFIER, TO BE ASSIGNED BY THE ORIGINATOR, IS A UNIQUE ORIGINATOR ID FOR EACH DATA SUBMISSION. AFTER SUBMISSION, THE NODC REASSIGNS TO THIS FIELD A UNIQUE NODC IDENTIFIER FOR INTERNAL USE.

IT IS PREFERRED FOR PURPOSES OF DATA RETRIEVAL AND PRODUCT REQUESTS THAT EACH FILE ID CONSIST OF ONLY ONE TYPE OF SURVEY, I.E. TRANSIT DATA OR RANDOM INDIVIDUAL SIGHTINGS. HOWEVER, IF THESE TWO TYPES OF OBSERVATION ARE TO BE INCLUDED WITHIN ONE FILE ID, DATA MUST BE DIFFERENTIATED BY STATION NUMBER WITHIN A DATA SET AND THE APPROPRIATE TRANSIT OR SIGHTING RECORDS USED AS DESCRIBED BELOW.

PARAMETER	DESCRIPTION	SC
CRUISE HEADER RECORD	ALWAYS 'A' - 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 ID	SIX-CHARACTER FIELD ASSIGNED BY ORIGINATOR	22
START DATE OF SURVEY	YYMMDD	28
END DATE OF SURVEY	YYMMDD	34
INVESTIGATOR, SCIENTIST OR DATA SOURCE	FIFTEEN-CHARACTER FIELD IDENTIFYING DATA	40
INSTITUTION OR AGENCY	FIFTEEN-CHARACTER FIELD IDENTIFYING ORGANIZATION	55
PLATFORM ID	THREE-DIGIT CODE - USE CODE 0063(SHIPS) OR CODE 0217(AIRCRAFT) - MAY BE USED INSTEAD OF PLATFORM NAME FIELD	70
PLATFORM TYPE	ONE-CHARACTER CODE - USE CODE 0100	73
BLANKS		74
TRANSIT RECORD	ALWAYS 'B' - SHOULD BE USED TO DESCRIBE COMPLETE TRANSIT OR ANY PORTION OF TRANSIT OR SURVEY LEG TRAVELED ALONG A RELATIVELY STRAIGHT LINE. IF INCIDENTAL SIGHTINGS ARE MADE OUTSIDE OF THE DESCRIBED TRANSIT AREA, CARE SHOULD BE TAKEN TO CORRECT ELAPSED TIME FIELDS OR TRANSITS SHOULD BE DIVIDED INTO SEGMENTS AT THE POINTS OF DEPARTURE FROM THE TRANSIT PATH AND TIMES/DISTANCES DIVIDED UP APPROPRIATELY.	10
STATION NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - MAY REPRESENT A LEG OF A CRUISE OR A SIGHTING OF ONE OR MORE GROUPS AT THE SAME TIME AND PLACE - ALSO USED IN RECORD TYPES C THROUGH F AND T -	11
BEGIN LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	16
BEGIN LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	23
END LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	31
END LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	38
BEGIN DATE (GMT)	YYMMDD	46
BEGIN TIME (GMT)	XXXX (HOURS AND MINUTES-24 HOUR CLOCK)	52
END TIME (GMT)	XXXX (HOURS AND MINUTES-24 HOUR CLOCK)	56
	END TIME IS ASSUMED TO BE WITHIN THE SAME DAY. CONVERSION TO GMT MAY CAUSE A CHANGE IN DAYS AND AN APPARENT END TIME LESS THAN START TIME.	

WIDTH OF TRACK	XXXX - KILOMETERS TO HUNDREDTHS	60
PLATFORM DIRECTION	XXX (DEGREES TOWARD)	64
PLATFORM SPEED	XXX (WHOLE KNOTS) - ENTER FOR SHIP OR AIRCRAFT SPEEDS	67
PLATFORM ALTITUDE (OBSERVER HEIGHT)	XXXX (WHOLE METERS)	70
LEG MADE GOOD	ONE-CHARACTER CODE - USE CODE 0117	74
COMPLETENESS	ONE-CHARACTER CODE - USE CODE 0002	75
BLANK		76
SEQUENCE NUMBER	FOUR-DIGIT FIELD USED TO SORT RECORDS WITHIN A STATION AND A FILE ID - ALSO INCLUDED IN RECORDS C THROUGH E AND T	77
ENVIRONMENT RECORD	ALWAYS 'C' - TO BE REPORTED FOR EACH SIGHTING WHERE FEASIBLE AND ONLY ONE RECORD PER SIGHTING NUMBER	10
STATION NUMBER	'SEE RECORD 'B'	11
SIGHTING NUMBER	XXXXX - A UNIQUE NUMBER WITHIN EACH STATION - IT IS SUGGESTED THAT SIGHTINGS BE NUMBERED SEQUENTIALLY WITHIN EACH DATA SET	16
WATER DEPTH	XXXX - (WHOLE METERS)	21
CURRENT DIRECTION	XXX - (DEGREES TOWARD)	25
CURRENT SPEED	XX - (WHOLE KNOTS)	28
WIND DIRECTION	XXX - (DEGREES FROM)	30
WIND SPEED	XX - (WHOLE KNOTS)	33
CLOUD TYPE	ONE-CHARACTER CODE - USE CODE 0053	35
CLOUD AMOUNT	ONE-CHARACTER CODE - USE CODE 0105	36
WEATHER	TWO-CHARACTER CODE - USE CODE 0159	37
AIR TEMPERATURE	XXXX - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO THE VALUE - (DEG C TO TENTHS)	39
SEA SURFACE TEMPERATURE	XXXX - NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN ADJACENT TO THE VALUE - (DEG C TO HUNDREDTHS)	43
SEA STATE	ONE-CHARACTER CODE - USE CODE 0052 - USE BEAUFORT SCALE TO DESCRIBE SEA CONDITIONS - ONLY CODES 0-9 SHOULD BE APPROPRIATE FOR OBSERVATIONAL DATA	47
WATER COLOR	TWO-CHARACTER CODE - USE CODE 0051	48
SURFACE VISIBILITY	ONE-CHARACTER CODE - USE CODE 0006	50
GLARE AMOUNT	ONE-CHARACTER CODE - USE CODE 0035	51
GLARE LOCATION	ONE-CHARACTER CODE - USE CODE 0355	52
DEBRIS	ONE-CHARACTER CODE - USE CODE 0116	53
ICE TYPE	ONE-CHARACTER CODE - USE CODE 0064	54
OCTAS OF THIN ICE	ONE-CHARACTER CODE - USE CODE 0065	55
CHARACTERISTICS OF THIN ICE	ONE-CHARACTER CODE - USE CODE 0066	56

OCTAS OF MODERATE ICE	ONE-CHARACTER CODE - USE CODE 0065	57
CHARACTERISTICS OF MODERATE ICE	ONE-CHARACTER CODE - USE CODE 0066	58
OCTAS OF HEAVY ICE	ONE-CHARACTER CODE - USE CODE 0065	59
CHARACTERISTICS OF HEAVY ICE	ONE-CHARACTER CODE - USE CODE 0066	60
DEFORMATION	ONE-CHARACTER CODE - USE CODE 0067	61
TRANSECT WIDTH (ICE)	ONE-CHARACTER CODE - USE CODE 0068	62
PLATFORM ACTIVITY	TWO-CHARACTER CODE TO DESCRIBE SURVEY PLATFORM ACTIVITY - USE CODE 0005	63
HUMAN ACTIVITY	TWO-CHARACTER CODE TO DESCRIBE THE PRINCIPAL ACTIVITY NEAR THE SIGHTING LOCATION - USE CODE 0354	65
BLANKS		67
SEQUENCE NUMBER	SEE RECORD 'B'	77
LOCATION RECORD	ALWAYS 'D' - SHOULD BE USED TO INDICATE EACH SIGHTING POSITION - MULTIPLE RECORDS MAY BE USED FOR EACH STATION. SIGHTINGS MAY BE WITHIN A TRANSIT OR FOR INCIDENTAL RANDOM SIGHTINGS. FOR STUDIES WHERE SPECIFIC LOCATIONS ARE SEARCHED AND NO SPECIES SIGHTED, THE ANIMAL SIGHTED CODE SHOULD INDICATE THE ABSENCE OF ANIMALS. IT IS SUGGESTED THAT ALL SIGHTINGS AND SEARCHES BE NUMBERED SEQUENTIALLY WITHIN EACH STATION.	10
STATION NUMBER	SEE RECORD 'B'	11
SIGHTING NUMBER	SEE RECORD 'C' - NUMBERS SHOULD AGREE WITH ASSOCIATED ENVIRONMENT RECORDS	16
SIGHTING LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	21
SIGHTING LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W' - IF ANIMAL IS SIGHTED AND POSITION IS SIGNIFICANTLY DIFFERENT FROM SHIP OR AIRCRAFT POSITION (GREATER THAN ONE MILE OR TWO KILOMETERS), ANIMAL POSITION RATHER THAN SHIP POSITION SHOULD BE REPORTED IF POSSIBLE	28
SIGHTING DATE	YYMMDD	36
SIGHTING TIME	XXXX (HOURS AND MINUTES)	42
ANIMAL SIGHTED CODE	ONE-CHARACTER CODE - USE TO INDICATE IF ANIMALS WERE SIGHTED - IF YES, ONE OR MORE ANIMAL SIGHTING RECORDS SHOULD BE INCLUDED FOR THIS STATION AND SIGHTING NUMBER - USE CODE 0117	46

DISTANCE OF ANIMAL(S) FROM PLATFORM	XXXX (WHOLE METERS)	47
BEARING TO ANIMAL(S)	XXX (WHOLE DEGREES TRUE)	51
DISTANCE OF ANIMAL(S) TO SHORE	XXXX (KILOMETERS TO TENTHS)	54
DISTANCE OF ANIMAL(S). TO ICE EDGE	XXXX (KILOMETERS TO TENTHS)	58
ANIMAL OR GROUP HEADING	XXX (WHOLE DEGREES TOWARD)	62
PLATFORM ALTITUDE	XXXX (WHOLE METERS) - THIS ENTRY SHOULD AGREE WITH TRANSIT VALUE IF TRANSIT RECORD IS USED	65
BLANKS		69
SEQUENCE NUMBER	SEE RECORD 'B'	77

SUMMARY SIGHTING RECORD	ALWAYS 'E' - THIS RECORD IS USED TO INDICATE THE TOTAL NUMBER OF ANIMALS SIGHTED AT EACH STATION REGARDLESS OF BEHAVIOR, SEX OR OTHER SUBGROUPS. THE SUM OF THE ADULTS, SUBADULTS AND UNKNOWN (IF REPORTED) SHOULD EQUAL THE TOTAL NUMBER OF INDIVIDUALS. THERE SHOULD BE ONE RECORD PER SPECIES SIGHTED AND SIGHTING NUMBERS SHOULD RELATE TO RECORD 'C' AND 'D' INFORMATION WITH THE SAME STATION AND SIGHTING NUMBERS.	10
STATION NUMBER	SEE RECORD 'B'	11
SIGHTING NUMBER	SEE RECORDS 'C' AND 'D'	16
TAXONOMIC CODE	TWELVE-CHARACTER CODE FOR EACH SIGHTED SPECIES - USE NODC TAXONOMIC CODES - EACH SPECIES SIGHTED SHOULD BE REPRESENTED BY A SINGLE RECORD 'E' FOR EACH SIGHTING ONE-CHARACTER CODE - USE CODE 0141	21
IDENTIFICATION RELIABILITY		33
TOTAL NUMBER OF INDIVIDUALS	XXXXX - TOTAL NUMBER OF A SPECIES FOR THE INDIVIDUAL SIGHTING	34
CONFIDENCE	ONE-CHARACTER CODE - USE CODE 0003	39
COLLECTION METHOD	ONE-CHARACTER CODE - USE CODE 0001	40
NUMBER OF ADULTS	XXXXX - NUMBER OF ADULTS AS PART OF THE TOTAL NUMBER OF INDIVIDUALS	41

NUMBER OF SUBADULTS	XXXX - NUMBER OF SUBADULTS OR IMMATURE - THOSE ANIMALS THAT HAVE NOT YET REACHED THE REPRODUCTIVE STAGE AND ARE PAST THE NURSING STAGE	46
NUMBER OF JUVENILES	XXXX - NUMBER OF PUPS, CALVES OR HATCHLINGS - THOSE ANIMALS THAT STILL REQUIRE NURSING	50
NUMBER OF UNKNOWN	XXXXX - THE NUMBER OF ANIMALS THAT CANNOT BE IDENTIFIED BY AGE GROUP	54
BLANKS		59
SEQUENCE NUMBER	SEE RECORD 'B'	77
DETAIL SIGHTING RECORD	ALWAYS 'F' - SHOULD HAVE AT LEAST ONE RECORD FOR EACH SPECIES SIGHTED - SIGHTING NUMBERS SHOULD BE THE SAME AS ASSOCIATED RECORD D AND E (AND C WHERE ENVIRONMENT DATA ARE AVAILABLE)	10
STATION NUMBER	SEE RECORD 'B'	11
SIGHTING NUMBER	SEE RECORDS 'C', 'D' AND 'E'	16
TAXONOMIC CODE	TWELVE-CHARACTER CODE FOR EACH SIGHTED SPECIES - USE NODC TAXONOMIC CODES - DIFFERENT RECORDS MUST BE USED IF MORE THAN ONE SPECIES IS SIGHTED AT A STATION OR INDIVIDUALS ARE SPECIFIED FOR SPECIAL MARKS, BEHAVIORS, ETC	21
IDENTIFICATION RELIABILITY	ONE-CHARACTER CODE - USE CODE 0141	33
NUMBER OF INDIVIDUALS	XXXXX - NUMBER FOR THE SIGHTINGS FOR EACH BEHAVIOR CHARACTERISTIC, SEX, ETC	34
CONFIDENCE	ONE-CHARACTER CODE - USE CODE 0003	39
COLLECTION METHOD	ONE-CHARACTER CODE - USE CODE 0001	40
PREDOMINANT BEHAVIOR OF ANIMAL OR GROUP	THE FOLLOWING BEHAVIOR CODES USED TO DESCRIBE UP TO THREE MOST PREDOMINANT BEHAVIORS DURING THE TIME AND POSITION OF SIGHTING - CODE FROM LEFT TO RIGHT IN THE ORDER OF DECREASING IMPORTANCE	
BEHAVIOR I	TWO-CHARACTER CODE - USE CODE 0139	41
BEHAVIOR II	TWO-CHARACTER CODE - USE CODE 0139	43
BEHAVIOR III	TWO-CHARACTER CODE - USE CODE 0139	45
NUMBER OF GROUPS	XX - THE NUMBER OF DISCRETE SUBUNITS OF THE NUMBER OF EACH SPECIES SIGHTED, IF ANIMALS ARE DIVIDED INTO GROUPS. USE 01 IF NO DEFINITE DIVISION IS OBSERVED.	47

GROUP SIZE	ONE-CHARACTER CODE - USE THE CODE TO FIT THE MODAL OR MOST COMMONLY OBSERVED GROUP SIZE IF FEASIBLE - USE CODE 0356	49
NUMBER OF ADULTS	XXXXX - NUMBER OF ADULTS AS PART OF THE NUMBER OF INDIVIDUALS FOR THIS RECORD	50
NUMBER OF SUBADULTS	XXXX - SAME AS ABOVE FOR SUBADULTS OR IMMATURE - THOSE ANIMALS THAT HAVE NOT YET REACHED THE REPRODUCTIVE STAGE AND ARE PAST THE NURSING STAGE	55
NUMBER OF JUVENILES	XXXX - SAME AS ABOVE FOR PUPS, CALVES OR HATCHLINGS - THOSE INDIVIDUALS THAT STILL REQUIRE NURSING	59
NUMBER OF ADULT MALES	XXXX - SAME AS ABOVE FOR ADULT MALES	63
NUMBER OF ADULT FEMALES	XXXX - SAME AS ABOVE FOR ADULT FEMALES	67
SPECIAL MARKS OR TAGS	ONE-CHARACTER CODE TO INDICATE THE TYPE OF TAGS OR MARKINGS - GENERALLY WOULD REFER TO INDIVIDUAL ANIMAL - FURTHER INFORMATION MAY BE INCLUDED IN TEXT RECORDS USE CODE 0062	71
DECOMPOSITION	ONE-CHARACTER CODE - USE CODE 0004	72
PHOTOS TAKEN	ONE-CHARACTER CODE - USE TEXT RECORDS FOR MORE DETAILED INFORMATION ON PHOTOS - USE CODE 0117	73
DIVE TIME	XX - TIME TO NEAREST WHOLE MINUTE - DATA SHOULD REFER TO THE INDIVIDUAL ANIMAL SPECIFIED IN THE TAXONOMIC CODE FIELD OF THIS DATA RECORD	74
BLANK		76
SEQUENCE NUMBER	SEE RECORD 'B'	77
TEXT RECORD	ALWAYS 'T' - THIS RECORD CAN BE USED FOR COMMENTS PERTAINING TO INDIVIDUAL SIGHTINGS OR FOR GENERAL COMMENTS BY LEAVING THE SIGHTING NUMBER BLANK AND PLACING THE TEXT RECORD OR RECORDS IN THE PROPER SEQUENCE WITHIN THE FILE ID	10
STATION NUMBER	SEE RECORD 'B'	11
SIGHTING NUMBER	SEE RECORD 'C' AND 'D'	16
TEXT	56-CHARACTER FIELD FOR COMMENTS - MULTIPLE RECORDS MAY BE USED	21
SEQUENCE NUMBER	SEE RECORD 'B'	77

N O D C F I L E T Y P E C O D E S

83/09/28

THE FOLLOWING CODES ARE USED IN FILE TYPE 127

0001 COLLECTION METHOD

- 1 -- VISUAL COUNT - THE OBSERVER COUNTED EACH ANIMAL VISUALLY AT THE TIME OF SIGHTING. NUMBERS IN A FEW SMALL GROUPS MAY HAVE BEEN ESTIMATED BUT THE NUMBER RECORDED IS BELIEVED TO BE QUITE CLOSE TO THE NUMBER SEEN.
- 2 -- VISUAL ESTIMATE - USUALLY USED ONLY FOR GROUPS OF ANIMALS WHEN A VISUAL COUNT IS IMPOSSIBLE. THIS METHOD MAY BE VERY INACCURATE PARTICULARLY FOR LARGE GROUPS OF ANIMALS AND THE COUNTS SHOULD BE USED CAUTIOUSLY.
- 3 -- PHOTOGRAPHIC COUNT - ALSO USED FOR GROUPS OF ANIMALS. GROUPS ARE PHOTOGRAPHED AND THE NUMBER DETERMINED BY COUNTING INDIVIDUALS ON THE PHOTOS AT A LATER DATE. IN SOME CASES THE PHOTO COUNT MAY BE SUPPLEMENTED BY A VISUAL COUNT OF ANIMALS NOT PHOTOGRAPHED. PHOTOGRAPHIC COUNTS ARE MORE RELIABLE THAN VISUAL ESTIMATES BUT SOME ERRORS DUE TO TECHNICAL PROBLEMS ARE POSSIBLE.
- 4 -- ACOUSTIC COUNT

0002 COMPLETENESS

- 1 -- AREA OR STATION COMPLETELY SURVEYED (FOR SEA OTTER SURVEYS, PLATFORM LOCATED SO THAT ALL SHORELINE, OFFSHORE ROCKS, ETC. WITHIN SURVEY TRACKS).
- 2 -- AREA OR STATION PARTIALLY SURVEYED (FOR SEA OTTER SURVEYS, SOME PORTION OF SHORELINE, ETC NOT WITHIN SURVEY TRACKS).

0003 CONFIDENCE

- 0 -- NO ERROR
- 1 -- +1
- 2 -- +2
- 3 -- +5
- 4 -- +10
- 5 -- +25
- 6 -- +50
- 7 -- +100
- 8 -- +1000
- 9 -- INDICATES "AT LEAST" FOR GROUP COUNT. USUALLY FOR SMALL GROUPS OF LESS THAN 10 INDIVIDUALS WHERE A CERTAIN NUMBER MIGHT SURFACE SIMULTANEOUSLY BUT MORE ARE SUSPECTED.
- A -- ESTIMATE - NO INDICATION OF CONFIDENCE LEVEL
- B -- NUMBER OF ANIMALS UNKNOWN

0004 DECOMPOSITION STAGE

- BLANK - NO INFORMATION
- 0 -- INDETERMINABLE
- 1 -- LESS THAN 3 MONTHS
- 2 -- MORE THAN 6 MONTHS

- 3 -- BETWEEN 3 AND 6 MONTHS
- 4 -- SHELL AND BODY INTACT (TURTLES) - LITTLE OR NO FOUL ODOR OR BLOATING
- 5 -- SHELL FALLING APART (TURTLES) - BODY BLOATING AND DISCOLORED, STRONG FOUL ODOR
- 6 -- SKELETON

0005 PLAT ACTIV (MAMMALS)

- 01 -- TOP QUALITY TRANSECT WORK-WATCH EFFORT, POSITIONS(+1NM)AND SPECIES I.D. AS RELIABLE AS POSSIBLE
- 02 -- TRANSECT WORK - GOOD POSITION (+ 1NM) AND TRANSIT DATA. \ SPECIES I.D. FAIR.
- 03 -- TRANSECT WORK - GOOD POSITION (+ 1NM) AND TRANSIT DATA. \ SPECIES I.D. POOR.
- 04 -- TRANSECT WORK - TIMES ARE RELIABLE, POSITIONS ACCURATE TO + 5 NAUTICAL MILES. / SPECIES I.D. GOOD.
- 05 -- TRANSECT WORK - TIMES RELIABLE, POSITIONS ACCURATE TO + 5 NAUTICAL MILES. SPECIES I.D. FAIR.
- 06 -- TRANSECT WORK - TIMES ARE RELIABLE, POSITIONS ACCURATE TO + 5 NAUTICAL MILES. SPECIES I.D. POOR.
- 09 -- PLATFORM IN TRANSIT, MMO (MARINE MAMMAL OBSERVER) ABOARD, TRANSECT DATA.
- 10 -- PLATFORM IN TRANSIT, NO MMO ABOARD, TRANSECT DATA.
- 11 -- PLATFORM IN TRANSIT WITH MMO ABOARD.
- 12 -- PLATFORM IN TRANSIT WITH NO MMO ABOARD.
- 13 -- PLATFORM ENGAGED IN LOCALIZED WORK WITH MMO ABOARD(OCEANOGRAPHIC, TRAWLING, ETC.).
- 14 -- PLATFORM ENGAGED IN LOCALIZED WORK WITH NO MMO ABOARD.
- 15 -- MIGRATION WATCH FROM STATIONARY PLATFORM BY MMO.
- 16 -- BEHAVIORAL WATCH FROM STATIONARY PLATFORM BY MMO.
- 17 -- PLATFORM AT ANCHOR OR MOORED, MMO.
- 18 -- PLATFORM AT ANCHOR OR MOORED, NO MMO.
- 19 -- ROOKERY AND HAULING AREA CENSUS WORK.
- 98 -- SINGLE SIGHTING REPORTS BY NON MMO.

0006 SURFACE VISIBILITY

- 1 -- EXCELLENT - SURFACE OF WATER CALM, USUALLY A HIGH OVERCAST SKY WITH NO SUN GLARE. SEA OTTERS APPEAR DARK AGAINST A UNIFORMLY LIGHT GRAY BACKGROUND OF THE WATER'S SURFACE. INDIVIDUALS EASILY DISTINGUISHED AT A DISTANCE.
- 2 -- VERY GOOD - MAY BE LIGHT RIPPLE ON WATER'S SURFACE OR SLIGHTLY UNEVEN LIGHTING BUT STILL RELATIVELY EASY TO DISTINGUISH INDIVIDUALS AT A DISTANCE.
- 3 -- GOOD - MAY BE LIGHT CHOP, SOME SUN GLARE OR SHADOWS. INDIVIDUALS AT A DISTANCE MAY BE DIFFICULT TO DISTINGUISH BUT INDIVIDUALS NEARBY AND SMALL GROUPS AT A DISTANCE ARE READILY IDENTIFIED.
- 4 -- FAIR - USUALLY CHOPPY WAVES AND STRONG SUN GLARE OR DARK SHADOWS IN PART OF THE SURVEY TRACK. INDIVIDUALS IN KELP BEDS, IN THE LEE OF ROCKS, OR NEAR THE OBSERVER AND MOST PODS READILY IDENTIFIED BUT MOST INDIVIDUALS AND SOME PODS IN AREAS OF POOR LIGHTING OR AT A DISTANCE DIFFICULT TO DISTINGUISH.
- 5 -- POOR - INDIVIDUALS DIFFICULT TO DISTINGUISH UNLESS VERY CLOSE AND SOME PODS AT A DISTANCE MAY BE MISSED. HOWEVER CONDITIONS STILL GOOD ENOUGH TO GIVE A VERY ROUGH IMPRESSION OF THE DISTRIBUTION OF ANIMALS.
- 6 -- UNACCEPTABLE - HEAVY CHOP WITH MANY WHITECAPS, LIGHTING POOR OR LARGE WAVES BREAKING ON ROCKS. NO SURVEYS SHOULD BE CONDUCTED UNDER THESE CONDITIONS BUT OCCASIONALLY A SIGHTING OF SIGNIFICANCE MAY BE MADE IN THE COURSE OF OTHER ACTIVITIES.

0035 GLARE INTENSITY

- 0 -- SLIGHT SUN GLARE
- 1 -- MODERATE SUN GLARE
- 2 -- INTENSE SUN GLARE

- 3 -- SLIGHT CLOUD GLARE
- 4 -- MODERATE CLOUD GLARE
- 5 -- INTENSE CLOUD GLARE
- 6 -- SLIGHT MOON GLARE
- 7 -- MODERATE MOON GLARE
- 8 -- INTENSE MOON GLARE
- 9 -- NO GLARE

0051 WATER COLOR

- 01 -- PERCENT YELLOW 0 FOREL-ULE SCALE I
- 02 -- PERCENT YELLOW 2 FOREL-ULE SCALE II
- 03 -- PERCENT YELLOW 5 FOREL-ULE SCALE III
- 04 -- PERCENT YELLOW 9 FOREL-ULE SCALE IV
- 05 -- PERCENT YELLOW 14 FOREL-ULE SCALE V
- 06 -- PERCENT YELLOW 20 FOREL-ULE SCALE VI
- 07 -- PERCENT YELLOW 27 FOREL-ULE SCALE VII
- 08 -- PERCENT YELLOW 35 FOREL-ULE SCALE VIII
- 09 -- PERCENT YELLOW 44 FOREL-ULE SCALE IX
- 10 -- PERCENT YELLOW 54 FOREL-ULE SCALE X
- 11 -- PERCENT YELLOW 65 PERCENT BROWN 0 FOREL-ULE SCALE XI
- 12 -- PERCENT BROWN 2 FOREL-ULE SCALE XII
- 13 -- PERCENT BROWN 5 FOREL-ULE SCALE XIII
- 14 -- PERCENT BROWN 9 FOREL-ULE SCALE XIV
- 15 -- PERCENT BROWN 14 FOREL-ULE SCALE XV
- 16 -- PERCENT BROWN 20 FOREL-ULE SCALE XVI
- 17 -- PERCENT BROWN 27 FOREL-ULE SCALE XVII
- 18 -- PERCENT BROWN 35 FOREL-ULE SCALE XVIII
- 19 -- PERCENT BROWN 44 FOREL-ULE SCALE XIX
- 20 -- PERCENT BROWN 54 FOREL-ULE SCALE XX
- 21 -- PERCENT BROWN 65 FOREL-ULE SCALE XXI
- 31 -- GREEN
- 32 -- BLUE
- 33 -- GREY
- 34 -- RED
- 35 -- CHALKY
- 36 -- BROWN
- 37 -- LUMINESCENT

0052 WIND FORCE(BEAUFORT)

- 0 -- CALM MEAN VELOCITY IN KNOTS <1 IN METERS/SEC 0-0.2 IN KM/H <1 IN M.P.H. <1 /WAVE HT < .25 FT
- 1 -- LIGHT AIR MEAN VELOCITY IN KNOTS 1-3 METERS/SEC 0.3-1.5 KM/H 1-5 M.P.H. 1-3 /WAVE HT = .25 FT
- 2 -- LIGHT BREEZE MEAN VELOCITY IN KNOTS 4-6 METERS/SEC 1.6-3.3 KM/H 6-11 M.P.H. 4-7 /WAVE HT = .5 FT
- 3 -- GENTLE BREEZE MEAN VELOCITY IN KNOTS 7-10 METERS/SEC 3.4-5.4 KM/H 12-19 M.P.H. 8-12 /WAVE HT = 2 FT
- 4 -- MODERATE BREEZE MEAN VELOCITY IN KNOTS 11-16 METERS/SEC 5.5-7.9 KM/H 20-28 M.P.H. 13-18 /WAVE HT = 4 FT
- 5 -- FRESH BREEZE MEAN VELOCITY IN KNOTS 17-21 METERS/SEC 8.0-10.7 KM/H 29-38 M.P.H. 19-24

/WAVE HT = 6 FT
 6 -- STRONG BREEZE MEAN VELOCITY IN KNOTS 22-27 METERS/SEC 10.8-13.8 KM/H 39-49 M.P.H. 25-31
 /WAVE HT = 10 FT
 7 -- NEAR GALE MEAN VELOCITY IN KNOTS 28-33 METERS/SEC 13.9-17.1 KM/H 50-61 M.P.H. 32-38
 /WAVE HT = 14 FT
 8 -- GALE MEAN VELOCITY IN KNOTS 34-40 METERS/SEC 17.2-20.7 KM/H 62-74 M.P.H. 39-46 /WAVE HT
 = 18 FT
 9 -- STRONG GALE MEAN VELOCITY IN KNOTS 41-47 METERS/SEC 20.8-24.4 KM/H 75-88 M.P.H. 47-54
 /WAVE HT = 23 FT

0053 CLOUD TYPE (WM0500).

 0 -- CIRRUS
 1 -- CIRROCUMULUS
 2 -- CIRROSTRATUS
 3 -- ALTOCUMULUS
 4 -- ALTOSTRATUS
 5 -- NIMBOSTRATUS
 6 -- STRATOCUMULUS
 7 -- STRATUS
 8 -- CUMULUS
 9 -- CUMULONIMBUS
 X -- CLOUD NOT VISIBLE OWING TO DARKNESS, FOG, DUSTSTORM, SANDSTORM, OR OTHER ANALOGOUS PHENOMENA

0062 STATIC TELEMETRY

 0 -- UNMARKED
 1 -- SPAGHETTI TAG
 2 -- DISC TAG
 3 -- DISCOVERY TAG
 4 -- BRAND
 5 -- ROTO TAG
 6 -- METAL CRIMP
 7 -- RADIO TAG
 8 -- NATURAL MARK
 9 -- STREAMER TAG

0063 PLATFORM ID-SHIP

 001 -- OCEANOGRAPHER
 002 -- DISCOVERER
 003 -- SURVEYOR
 004 -- FAIRWEATHER
 005 -- RAINIER
 006 -- MILLER FREEMAN
 007 -- MACARTHUR
 008 -- DAVIDSON
 009 -- DAVID STARR JORDAN
 010 -- OREGON
 011 -- COBB
 012 -- KELEZ

013 -- PRIBILOF
014 -- TOWNSEND CROMWELL
051 -- MV E.L. BARTLETT
052 -- MV TUSTUMENA
053 -- MV WICKERSHAM
054 -- MV MATANUSKA
055 -- MV TAKU
056 -- MALASPINA
057 -- MV COLUMBIA
071 -- RV ALPHA HELIX
072 -- RV RESOLUTION
073 -- RV ACONA
074 -- RV THOMAS G. THOMPSON
075 -- RV TORDENSKJOLD
076 -- RV MOANA WAVE
077 -- TONQUIN
078 -- MONTAGUE
079 -- PROF. SEIDLICKI
080 -- S.P. LEE (USGS)
201 -- NEW ST. JOSEPH
202 -- MARK I
203 -- DISCOVERY
204 -- TRINITY
205 -- TACOMA
206 -- HARMONY
207 -- MORNINGSTAR
208 -- LYNN ANN
209 -- G.B. REED
210 -- NORDIC PRINCE
211 -- ALEUTIAN TERN
212 -- SURFBIRD
213 -- LINDBLAD EXPLORER
214 -- GLACIER QUEEN
215 -- BARTLETT
216 -- SHELBY D
217 -- YANKEE CLIPPER
218 -- AIKANE
219 -- ORIENT
220 -- CARTER
221 -- DIAKAN
222 -- LINDY
223 -- ST. MICHAEL
224 -- YAQUINA
225 -- WINDOWARD
226 -- PAT SAN MARIE
227 -- CHINA BEAR
228 -- ANNA MARIE
229 -- SUSETTA
230 -- FLYING CLOUD
301 -- USCGC POLAR STAR
302 -- USCGC CONFIDENCE

303 -- USCGC BOUTWELL
 304 -- USCGC STORIS
 305 -- USCGC GLACIER
 306 -- USCGC WINONA
 307 -- USCGC IRIS
 308 -- USCGC MINNETONKA
 310 -- USCGC IRONWOOD
 311 -- USCGC MIDGETT
 312 -- USCGC RUSH
 313 -- USCGC MODOC
 314 -- USCGC MELLON
 315 -- USCGC RESOLUTE
 316 -- USCGC CAMPBELL
 317 -- USCGC YOGONA
 318 -- USCGC JARVIS
 319 -- USCGC BURTON ISLAND
 320 -- USCGC MORGENTHAU
 401 -- MARANATHA
 402 -- OLE B
 499 -- UNIDENTIFIED TROLLER
 520 -- ALERT
 521 -- VIGILANT
 522 -- UNIMAK
 523 -- VIGOROUS
 524 -- USCG INGHAM
 525 -- ACTIVE
 526 -- TAMAROA
 527 -- TANEY
 528 -- CHILULA
 529 -- DECISIVE
 530 -- ALBATROSS IV
 531 -- MT. MITCHELL
 532 -- DELAWARE
 533 -- ADVANCE
 534 -- WIECZNO
 535 -- ANTON DOHRN
 536 -- ARGUS
 537 -- ALLIOT
 538 -- HENLOPEN
 539 -- OCEANUS
 540 -- ANNANDALE
 541 -- ENDEAVOR
 542 -- CHALLENGE
 543 -- MISS OCEAN CITY
 544 -- DOLPHIN
 545 -- CAPTAIN APPLEBY
 546 -- FLYING SORCERESS
 547 -- BLOCK ISLAND FERRY
 548 -- MARINE EVANGELINE
 549 -- ALASKAN SEAHORSE
 550 -- SUB SIG

551 -- WALTER E. PHIPPS
 552 -- SUNBEAM (MARINE SEACOAST MISSION)
 553 -- EDGERTON
 554 -- EASTWARD
 555 -- MISC. OPPORTUNISTIC/HISTORICAL SHIP
 556 -- COAST GUARD THERMOGRAPHY
 557 -- FISHERIES PATROL-USCG-CAPE COD
 558 -- FISHERIES PATROL-USCG-CAPE HATTERAS
 559 -- CHEROKEE
 560 -- DUANE
 561 -- SHERMAN
 562 -- RELIANCE
 563 -- BELAGORSK
 564 -- BELUGA
 565 -- JERE A. CHASE
 566 -- R/V TRIDENT
 567 -- R/V REGINA MARIS
 568 -- R/V WESTWARD
 569 -- STONE HORSE
 570 -- R/V THREE OF A KIND
 571 -- M/V WHEN AND IF
 572 -- CHRISTINA M
 573 -- F/V TWO BROTHERS
 574 -- YANKEE OAPT'S
 575 -- SEA DOLL MEDITATION
 576 -- CARIBE
 577 -- BLUE NOSE FERRY
 578 -- ELIZABETH
 579 -- ATLANTIC TWIN
 580 -- TIOGA
 581 -- BAGATELLE
 582 -- STATE OF MAINE
 583 -- VIKING QUEEN
 584 -- VIKING STARSHIP
 585 -- BELAGORSK
 586 -- EVRIKA
 587 -- BLUE FIN
 655 -- MISC NON-SHIP/NON-AIRCRAFT SOURCES
 950 -- MR. RODNEY JUDY (AERIAL)
 990 -- UNIDENTIFIED ALASKAN FERRY
 991 -- UNIDENTIFIED ALASKA ENFORCEMENT
 992 -- UNIDENTIFIED U.S. COAST GUARD
 993 -- MR TERRY WAHL
 994 -- NMFS FOREIGN VESSEL PROGRAM
 995 -- IPHC (HALIBUT COMMISSION)
 997 -- U.S. FISH AND WILDLIFE SERVICE
 998 -- MISC.-TO HANDLE SINGLE REPORTS FROM ONE VESSEL WHICH IS NOT EXPECTED TO REPORT AGAIN. VESSEL SHOULD
 BE IDENTIFIED ON COMMENTS CARD.
 999 -- NMFS MARINE MAMMAL DIVISION

0064 ICE TYPE

- 1 -- DRIFTING ICE
- 2 -- LAND FAST OR ANCHORED ICE
- 3 -- OPEN WATER

0065 ICE COVERAGE

- 0 -- 0 OCTAS (NO COVERAGE)
- 1 -- 1 OCTAS (1/8)
- 2 -- 2 OCTAS (2/8)
- 3 -- 3 OCTAS (3/8)
- 4 -- 4 OCTAS (4/8)
- 5 -- 5 OCTAS (5/8)
- 6 -- 6 OCTAS (6/8)
- 7 -- 7 OCTAS (7/8)
- 8 -- 8 OCTAS (8/8)

0066 ICE CHARACTERISTICS

- 1 -- GREASE ICE
- 2 -- SLUSH OR BRASH ICE
- 3 -- PANCAKE ICE
- 4 -- FLOES LESS THAN 10 M.
- 5 -- FLOES BETWEEN 10 AND 30 M.
- 6 -- FLOES BETWEEN 30 AND 100 M.
- 7 -- FLOES BETWEEN 100 AND 200 M.
- 8 -- FLOES GREATER THAN 200 M.

0067 ICE DEFORMATION

- 1 -- LESS THAN FIVE PERCENT OF AREA DEFORMED
- 2 -- FIVE TO TWENTY PERCENT DEFORMED
- 3 -- TWENTY TO FIFTY PERCENT DEFORMED
- 4 -- FIFTY PERCENT OR GREATER DEFORMED

0068 ICE TRANSECT WIDTH

- 1 -- LESS THAN 1/8 NAUTICAL MILE
- 2 -- 1/8 TO 1/4 NAUTICAL MILE
- 3 -- 1/4 TO 1/2 NAUTICAL MILE
- 4 -- 1/2 TO 1 NAUTICAL MILE
- 5 -- 1 TO 4 NAUTICAL MILES
- 6 -- GREATER THAN 4 NAUTICAL MILES

0096 COMPASS DIRECTION

- BLANK - NO INFORMATION
- 0 -- CALM (STATIONARY, NONE)
- 1 -- N 337.5 DEGREES TO 22.5 DEGREES

2 -- NE 22.5 DEGREES TO 67.5 DEGREES
 3 -- E 67.5 DEGREES TO 112.5 DEGREES
 4 -- SE 112.5 DEGREES TO 157.5 DEGREES
 5 -- S 157.5 DEGREES TO 202.5 DEGREES
 6 -- SW 202.5 DEGREES TO 247.5 DEGREES
 7 -- W 247.5 DEGREES TO 292.5 DEGREES
 8 -- NW 292.5 DEGREES TO 337.5 DEGREES
 9 -- MULTIPLE DIRECTIONS (CONFUSED)
 A -- DIRECTLY OVERHEAD

0100 PLATFORM TYPE

1 -- RESEARCH SHIP
 2 -- NON-SPECIALIZED SHIP
 3 -- SATELLITE
 4 -- BALLOON
 5 -- AIRPLANE
 6 -- ANCHORED BUOY
 7 -- DRIFTING BUOY
 8 -- SUBMERGED FLOAT, ANCHORED
 9 -- SUBMERGED FLOAT, DRIFTING
 A -- FIXED PLATFORM
 B -- FIXED COASTAL STATION/FIXED SHORE STATION
 C -- DRIFTING ICE
 D -- SUBMERSIBLE
 E -- HELICOPTER
 F -- SHORE OBSERVER (AUTO OR FOOT)
 G -- ICE STATION
 H -- GOOSE (AMPHIBIOUS AIRCRAFT)
 J -- P2V (AIRCRAFT)
 K -- SMALL BOAT
 L -- FISHING SHIPS
 M -- FERRYS
 N -- TUGS OR WORK BOATS
 P -- PRIVATE YACHTS
 Q -- CHARTER BOATS

0105 CLOUD AMT, (WM02700)

0 -- 0 (ZERO)
 1 -- 1 OKTA OR LESS, BUT NOT ZERO (1/10 OR LESS, BUT NOT ZERO)
 2 -- 2 OKTAS, 2/10-3/10
 3 -- 3 OKTAS 4/10
 4 -- 4 OKTAS 5/10
 5 -- 5 OKTAS 6/10
 6 -- 6 OKTAS 7/10-8/10
 7 -- 7 OKTAS OR MORE, BUT NOT 8 OKTAS (9/10 OR MORE, BUT NOT 10/10)
 8 -- 8 OKTAS 10/10
 9 -- SKY OBSCURED, OR CLOUD AMOUNT CANNOT BE ESTIMATED

Q116 DEBRIS

 -- BLANK - NO INFORMATION
 0 -- INDETERMINABLE
 1 -- WOOD
 2 -- SEAWEED
 3 -- FUCUS
 4 -- FOAM LINE
 5 -- OFFAL
 6 -- OTHER SHIP - ACTIVITY NOT NOTED
 7 -- OTHER SHIP - FISHING
 8 -- OTHER SHIP - DUMPING
 9 -- NONE
 A -- OIL SLICK - UNIDENTIFIED
 B -- OIL SLICK - WHALE/FISH
 C -- OIL SLICK - PROCESSING BY-PRODUCT
 D -- OIL SLICK - PETROLEUM
 E -- OWN SHIP-DUMPING
 F -- FLOTSAM (NATURAL ORIGIN)
 G -- JETSAM (HUMAN ORIGIN)
 H -- COMBINATION OF DEBRIS

Q117 DECISION

 -- BLANK - NO INFORMATION
 N -- NO
 Y -- YES

Q139 BEHAVIOR (027)

 -- BLANK - NULL CODE - NO BEHAVIOR INFORMATION AVAILABLE
 01 -- NO SPECIFIC BEHAVIOR OTHER THAN IN THE WATER(USE 01-30 FOR BEHAVIOR IN THE WATER)
 02 -- SLEEPING
 03 -- COURTSHIP OR BREEDING BEHAVIOR
 04 -- FEEDING
 05 -- MOTHER WITH YOUNG
 06 -- AGGRESSIVE
 07 -- NON-SPECIFIC CONTACT/PLAY
 08 -- BOW RIDING
 09 -- PORPOISING
 10 -- FOLLOWING VESSEL (E.G., SEA LIONS FOLLOWING A FISHING VESSEL)
 11 -- ROBBING FISH NETS
 12 -- ASSOCIATED WITH CETACEA
 13 -- ASSOCIATED WITH PINNIPED
 14 -- ASSOCIATED WITH BIRDS
 15 -- ASSOCIATED WITH CETACEA AND BIRDS
 16 -- ASSOCIATED WITH PINNIPEDS AND BIRDS
 17 -- ASSOCIATED WITH PINNIPEDS AND CETACEANS
 18 -- ASSOCIATED WITH PINNIPEDS, CETACEANS AND BIRDS
 19 -- ASSOCIATED WITH KELP

20 -- ASSOCIATED WITH SHRIMP, EUPHAUSIDS, ETC.
 21 -- ASSOCIATED WITH SCHOOL OF BAITFISH (LENGTH<18 IN.)
 22 -- ASSOCIATED WITH LARGER FISH (LENGTH > 18 IN.)
 23 -- ASSOCIATED WITH CONCENTRATION OF SQUID
 24 -- ASSOCIATED WITH VESSEL AND CETACEAN
 25 -- ASSOCIATED WITH VESSEL AND PINNIPED
 26 -- SYNCHRONOUS DIVING
 27 -- DEAD ANIMAL
 28 -- BREACHING
 29 -- AVOIDANCE
 30 -- TAIL LOBING
 31 -- NO SPECIFIC BEHAVIOR NOTED(USE 31-60 FOR BEHAVIOR ON LAND)
 32 -- SLEEPING
 33 -- BREEDING AND PUPPING (ROOKERY)
 34 -- FEEDING
 35 -- MOTHER WITH YOUNG
 36 -- MOTHER WITH YOUNG NURSING
 37 -- AGGRESSIVE
 38 -- NON-SPECIFIC CONTACT/PLAY
 39 -- THERMOREGULATORY
 40 -- DEAD ANIMAL
 50 -- CRAWLING UP BEACH
 51 -- DIGGING HOLE
 52 -- LAYING EGGS
 53 -- COVERING HOLE
 54 -- CRAWLING TOWARDS SEA
 55 -- YOUNG HATCHING
 56 -- HAULED OUT ON BEACH
 57 -- HAULED OUT ON ROCKS
 61 -- NO SPECIFIC BEHAVIOR NOTED (USE 61-80 FOR BEHAVIOR ON ICE)
 62 -- SLEEPING
 63 -- BREEDING AND PUPPING ROOKERY
 64 -- FEEDING
 65 -- MOTHER WITH YOUNG NURSING
 66 -- MOTHER WITH YOUNG
 67 -- AGGRESSIVE
 68 -- NON-SPECIFIC CONTACT/PLAY
 69 -- DEAD ANIMAL
 81 -- HAULED ON FLOATING DEBRIS (NOT ICE)
 90 -- SPYHOPPING - A PASSIVE BEHAVIOR OF CETACEANS IN WHICH THE HEAD IS HELD OUT OF THE WATER IN A VERTICAL POSITION
 91 -- ROOSTER-TAILING
 A1 -- AEROBATICS
 A2 -- SWIMMING UPSIDE DOWN
 A3 -- SWIMMING ON SIDE
 A4 -- SWIMMING AT SURFACE
 A5 -- SWIMMING BELOW SURFACE
 A6 -- FLIPPERING
 A7 -- DEEP DIVE - FLUKES NOT VISIBLE
 A8 -- DEEP DIVE - FLUKES VISIBLE
 A9 -- VISIBLE BLOW

B1 -- BLOW NOT VISIBLE
 B2 -- RESPIRATION INTERVALS RECORDED
 B3 -- DIVE INTERVALS RECORDED
 B4 -- MOTIONLESS BELOW THE SURFACE ANIMAL LYING ON SIDE
 B5 -- STRANDED
 B6 -- APPARENTLY INFLUENCED BY VESSEL
 B7 -- MOTIONLESS AT SURFACE
 B8 -- APPARENT VESSEL AVOIDANCE
 B9 -- APPARENTLY ATTRACTED BY VESSEL
 C1 -- APPARENTLY NOT INFLUENCED BY VESSEL
 C2 -- IN TRANSIT
 C3 -- CIRCULAR MOVEMENTS
 C4 -- DEFECATION
 C5 -- SEEN CLOSE TO FISHING GEAR
 C6 -- MOTIONLESS BELOW THE SURFACE VENTRAL SIDE UP
 C7 -- APPARENT CALVING
 C8 -- PENIS OBSERVED
 C9 -- BODY CONTACT NOT BELLY TO BELLY
 D1 -- DOLPHIN(S) BOWRIDING WHALE ROSTRUM
 D2 -- SYNCHRONOUS SWIMMING
 D3 -- SYNCHRONOUS BREATHING
 D4 -- SHALLOW DIVE
 D5 -- ANIMAL ATTRACTED BY OTHER VESSEL
 D6 -- BUBBLES OBSERVED
 D7 -- BELLY TO BELLY SWIMMING (MATING?)
 D8 -- ASSOCIATED WITH JELLYFISH
 D9 -- ASSOCIATED WITH SHARKS
 E1 -- DISTINCT SUBGROUPS
 E2 -- APPARENT COOPERATION BETWEEN INDIVIDUALS
 E3 -- SOUNDS PRODUCED
 E4 -- OBSERVED IN OIL SLICK
 E5 -- ABNORMAL BEHAVIOR
 F1 -- ASSOCIATED WITH A PHYSICAL OCEANOGRAPHIC FEATURE
 F2 -- SOUND RECORDINGS MADE
 F3 -- APPARENT OIL AVOIDANCE
 F4 -- APPARENT OIL ATTRACTION
 F5 -- ANIMALS IN CONTACT WITH OIL
 F6 -- APPARENTLY NOT INFLUENCED BY OIL
 F7 -- CHANGE IN HEADING OF GROUP
 F8 -- CHANGE IN GROUP STRUCTURE
 F9 -- DIVING TURTLES
 G1 -- APPARENT SPEED OF MOVEMENT-FAST SWIM (>10 KNOTS)
 G2 -- APPARENT SPEED OF MOVEMENT-MODERATE SWIM (1-10 KNOTS)
 G3 -- APPARENT SPEED OF MOVEMENT-SLOW SWIM (LT OR EQ TO 1 KNOT)
 G4 -- OBVIOUS CHANGE IN SPEED
 G5 -- SWIMMING STEADILY IN ONE DIRECTION
 G6 -- MILLING
 G7 -- THRASHING-VIOLENT BEHAVIOR
 G8 -- TANGLED IN FISHING GEAR
 G9 -- UNCODEABLE BEHAVIOR (DESCRIPTION IN TEXT RECORD)

0141 IDENT. RELIABILITY

- 0 -- UNSURE
 1 -- PROBABLE
 2 -- SURE

0159 WEATHER (WMO4677)

- 00 -- CLOUD DEVELOP. NOT OBSERVED OR NOT OBSERVABLE-CHAR. CHANGE OF THE STATE OF SKY DURING PAST HOUR
 01 -- CLOUDS GENERALLY DISSOLVING OR BECOMING LESS DEVELOPED-CHAR. CHANGE OF STATE OF SKY DURING PAST HR.
 02 -- STATE OF SKY ON THE WHOLE UNCHANGED-CHAR. CHANGE OF THE STATE OF SKY DURING THE PAST HOUR
 03 -- CLOUDS GENERALLY FORMING OR DEVELOPING-CHAR. CHANGE OF THE STATE OF SKY DURING THE PAST HOUR.
 04 -- VISIBILITY REDUCED BY SMOKE, E.G. VEGET. OF FOREST FIRES, INDUSTRIAL SMOKE OR VOLCANIC ASHES
 05 -- HAZE
 06 -- WIDESPREAD DUST IN SUSPENSION IN THE AIR, RAISED BY WIND AT OR NEAR THE STATION AT TIME OF OBS.
 07 -- DUST OR SAND RAISED BY WIND AT OR NEAR THE STATION AT THE TIME OF OBSERVATION, BUT NO WELL
 DEVELOPED DUST WHIRL(S) OR SAND WHIRL(S), AND NO DUSTSTORM OR SANDSTORM SEEN
 08 -- WELL DEVELOP. DUST WHIRL(S) OR SAND WHIRL(S) SEEN AT OR NEAR STATION DURING THE PRECEDING HOUR
 OR AT THE TIME OF OBSERVATION, BUT NO DUSTSTORM OR SANDSTORM
 09 -- DUSTSTORM OR SANDSTORM WITHIN SIGHT AT THE TIME OF OBSERV., OR AT STATION DURING PRECEDING HOUR
 10 -- MIST
 11 -- PATCHES OF SHALLOW FOG OR ICE FOG AT THE STATION, WHETHER ON LAND OR SEA, NOT DEEPER THAN ABOUT
 2 METERS ON LAND OR 10 METERS AT SEA
 12 -- MORE OR LESS CONTINUOUS SHALLOW FOG OR ICE FOG AT THE STATION, WHETHER ON LAND OR SEA, NOT DEEPER
 THAN ABOUT 2 M ON LAND OR 10 M AT SEA
 13 -- LIGHTNING VISIBLE, NO THUNDER HEARD
 14 -- PRECIPITATION WITHIN SIGHT, NOT REACHING THE GROUND OR THE SURFACE OF THE SEA
 15 -- PRECIPITATION WITHIN SIGHT, REACHING THE GROUND OR THE SURFACE OF THE SEA, BUT DISTANT(I.E.
 ESTIMATED TO BE MORE THAN 5 KM) FROM THE STATION
 16 -- PREC. WITHIN SIGHT, REACHING GROUND OR SURFACE OF THE SEA, NEAR TO, BUT NOT AT THE STATION
 17 -- THUNDERSTORM, BUT NO PRECIPITATION AT THE TIME OF OBSERVATION
 18 -- SQUALLS AT OR WITHIN SIGHT OF THE STATION DURING THE PRECEDING HOUR OR AT TIME OF OBSERVATION
 19 -- FUNNEL CLOUD(S) AT OR WITHIN SIGHT OF STATION DURING PRECEDING HOUR OR AT THE TIME OF OBSERVATION
 20 -- DRIZZLE (NOT FREEZING) OR SNOW GRAINS - NOT FALLING AS SHOWER(S)
 21 -- RAIN (NOT FREEZING) - NOT FALLING AS SHOWER(S)
 22 -- SNOW - NOT FALLING AS SHOWER(S)
 23 -- RAIN AND SNOW OR ICE PELLETS, TYPE (A) - NOT FALLING AS SHOWER(S)
 24 -- FREEZING DRIZZLE OR FREEZING RAIN - NOT FALLING AS SHOWER(S)
 25 -- SHOWER(S) OF RAIN - NOT FALLING AS SHOWER(S)
 26 -- SHOWER(S) OF SNOW, OR OF RAIN AND SNOW - NOT FALLING AS SHOWER(S)
 27 -- SHOWER(S) OF HAIL, OR OF RAIN AND HAIL - NOT FALLING AS SHOWER(S)
 28 -- FOG OR ICE FOG - NOT FALLING AS SHOWER(S)
 29 -- THUNDERSTORM (WITH OR WITHOUT PRECIPITATION)
 30 -- SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM-HAS DECREASED DURING THE PRECEDING HOUR
 31 -- SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM-NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 32 -- SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM-HAS BEGUN OR HAS INCREASED DURING THE PRECEDING HOUR
 33 -- SEVERE DUSTSTORM OR SANDSTORM-HAS DECREASED DURING THE PRECEDING HOUR
 34 -- SEVERE DUSTSTORM OR SANDSTORM-NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 35 -- SEVERE DUSTSTORM OR SANDSTORM-HAS BEGUN OR HAS INCREASED DURING THE PRECEDING HOUR
 36 -- SLIGHT OR MODERATE BLOWING SNOW-GENERALLY LOW (BELOW EYE LEVEL)

37 -- HEAVY DRIFTING SNOW-GENERALLY LOW (BELOW EYE LEVEL)
 38 -- SLIGHT OR MODERATE BLOWING SNOW-GENERALLY HIGH (ABOVE EYE LEVEL)
 39 -- HEAVY BLOWING SNOW-GENERALLY HIGH (ABOVE EYE LEVEL)
 40 -- FOG OR ICE FOG AT A DISTANCE AT TIME OF OBSERVATION, BUT NOT AT THE STATION DURING THE PRECEDING
 HOUR, THE FOG OR ICE FOG EXTENDING TO A LEVEL ABOVE THAT OF THE OBSERVER.
 41 -- FOG OR ICE FOG IN PATCHES
 42 -- FOG OR ICE FOG, SKY VISIBLE-HAS BECOME THINNER DURING THE PRECEDING HOUR
 43 -- FOG OR ICE FOG, SKY INVISIBLE-HAS BECOME THINNER DURING THE PRECEDING HOUR
 44 -- FOG OR ICE FOG, SKY VISIBLE-NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 45 -- FOG OR ICE FOG, SKY INVISIBLE-NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 46 -- FOG OR ICE FOG, SKY VISIBLE-HAS BEGUN OR HAS BECOME THICKER DURING THE PRECEDING HOUR
 47 -- FOG OR ICE FOG, SKY INVISIBLE-HAS BEGUN OR HAS BECOME THICKER DURING THE PRECEDING HOUR
 48 -- FOG, DEPOSITING RIME, SKY VISIBLE
 49 -- FOG, DEPOSITING RIME, SKY INVISIBLE
 50 -- DRIZZLE, NOT FREEZING, INTERMITTENT-SLIGHT AT TIME OF OBSERVATION
 51 -- DRIZZLE, NOT FREEZING, CONTINUOUS-SLIGHT AT TIME OF OBSERVATION
 52 -- DRIZZLE, NOT FREEZING, INTERMITTENT-MODERATE AT TIME OF OBSERVATION
 53 -- DRIZZLE, NOT FREEZING, CONTINUOUS-MODERATE AT TIME OF OBSERVATION
 54 -- DRIZZLE, NOT FREEZING, INTERMITTENT-HEAVY (DENSE) AT TIME OF OBSERVATION
 55 -- DRIZZLE, NOT FREEZING, CONTINUOUS-HEAVY (DENSE) AT TIME OF OBSERVATION
 56 -- DRIZZLE, FREEZING, SLIGHT
 57 -- DRIZZLE, FREEZING, MODERATE OR HEAVY (DENSE)
 58 -- DRIZZLE AND RAIN, SLIGHT
 59 -- DRIZZLE AND RAIN, MODERATE OR HEAVY
 60 -- RAIN, NOT FREEZING, INTERMITTENT-SLIGHT AT TIME OF OBSERVATION
 61 -- RAIN, NOT FREEZING, CONTINUOUS-SLIGHT AT TIME OF OBSERVATION
 62 -- RAIN, NOT FREEZING, INTERMITTENT-MODERATE AT TIME OF OBSERVATION
 63 -- RAIN, NOT FREEZING, CONTINUOUS-MODERATE AT TIME OF OBSERVATION
 64 -- RAIN, NOT FREEZING, INTERMITTENT-HEAVY AT TIME OF OBSERVATION
 65 -- RAIN, NOT FREEZING, CONTINUOUS-HEAVY AT TIME OF OBSERVATION
 66 -- RAIN, FREEZING, SLIGHT
 67 -- RAIN, FREEZING, MODERATE OR HEAVY
 68 -- RAIN OR DRIZZLE AND SNOW, SLIGHT
 69 -- RAIN OR DRIZZLE AND SNOW, MODERATE OR HEAVY
 70 -- INTERMITTENT FALL OF SNOW FLAKES-SLIGHT AT TIME OF OBSERVATION
 71 -- CONTINUOUS FALL OF SNOW FLAKES-SLIGHT AT TIME OF OBSERVATION
 72 -- INTERMITTENT FALL OF SNOW FLAKES-MODERATE AT TIME OF OBSERVATION
 73 -- CONTINUOUS FALL OF SNOW FLAKES-MODERATE AT TIME OF OBSERVATION
 74 -- INTERMITTENT FALL OF SNOW FLAKES-HEAVY AT TIME OF OBSERVATION
 75 -- CONTINUOUS FALL OF SNOW FLAKES-HEAVY AT TIME OF OBSERVATION
 76 -- ICE PRISMS (WITH OR WITHOUT FOG)
 77 -- SNOW GRAINS (WITH OR WITHOUT FOG)
 78 -- ISOLATED STARLIKE SNOW CRYSTALS (WITH OR WITHOUT FOG)
 79 -- ICE PELLETS, TYPE (A)
 80 -- RAIN SHOWER(S), SLIGHT
 81 -- RAIN SHOWER(S), MODERATE OR HEAVY
 82 -- RAIN SHOWER(S), VIOLENT
 83 -- SHOWER(S) OF RAIN AND SNOW MIXED, SLIGHT
 84 -- SHOWER(S) OF RAIN AND SNOW MIXED, MODERATE OR HEAVY
 85 -- SNOW SHOWER(S), SLIGHT
 86 -- SNOW SHOWER(S), MODERATE OR HEAVY

87 -- SHOWER(S) OF SNOW PELLETS OR ICE PELLETS, TYPE(B), WITH/WITHOUT RAIN AND SNOW MIXED-SLIGHT
 88 -- SHOWER(S) OF SNOW PELLETS OR ICE PELLETS, TYPE(B), WITH/WITHOUT RAIN OR RAIN AND SNOW MIXED-
 MODERATE OR HEAVY
 89 -- SHOWER(S) OF HAIL, WITH OR WITHOUT RAIN OR RAIN AND SNOW MIXED, NOT ASSOC. WITH THUNDER-SLIGHT
 90 -- SHOWER(S) OF HAIL, WITH/WITHOUT RAIN OR RAIN AND SNOW MIXED, NOT ASSOC. W/THUNDER-MODERATE OR HEAVY
 91 -- SLIGHT RAIN AT TIME OF OBSERVATION-THUNDERSTORM DURING THE PRECEDING HOUR BUT NOT AT TIME OF OBS.
 92 -- MODERATE OR HEAVY RAIN AT TIME OF OBSER.-THUNDERSTORM DURING PRECEDING HR. BUT NOT AT TIME OF OBS.
 93 -- SLIGHT SNOW, OR RAIN AND SNOW MIXED OR HAIL AT TIME OF OBSER.-THUNDERSTORM DURING THE PRECEDING
 HOUR BUT NOT AT TIME OF OBSERVATION
 94 -- MODERATE OR HEAVY SNOW, OR RAIN AND SNOW MIXED OR HAIL AT TIME OF OBSERVATION-THUNDERSTORM DURING
 THE PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
 95 -- THUNDERSTORM, SLIGHT OR MODERATE, WITHOUT HAIL, BUT W/RAIN AND/OR SNOW AT TIME OF OBSERVATION
 -THUNDERSTORM AT TIME OF OBSERVATION
 96 -- THUNDERSTORM, SLIGHT OR MODERATE, WITH HAIL AT TIME OF OBSERVATION-THUNDERSTORM AT TIME OF OBS.
 97 -- THUNDERSTORM, HEAVY, WITHOUT HAIL, BUT WITH RAIN AND/OR SNOW AT TIME OF OBSER.-THUNDERSTORM AT TIME
 OF OBSERVATION
 98 -- THUNDERSTORM COMBINED WITH DUSTSTORM OR SANDSTORM AT TIME OF OBSER.-THUNDERSTORM AT TIME OF OBS.
 99 -- THUNDERSTORM, HEAVY, WITH HAIL AT TIME OF OBSERVATION-THUNDERSTORM AT TIME OF OBSERVATION.

0217 PLATFORM-AIRCRAFT

001 -- OA5 P-2V N48347
 002 -- GRUMMAN SUPER GOOSE ← 85, 86
 003 -- NARL TWIN OTTER
 004 -- WIDGEON
 005 -- CESSNA 180
 006 -- TURBO BEAVER
 007 -- UNITED HELICOPTER (J. BALINT)
 008 -- SKYMASTER (AERO-MARINE)
 009 -- AT-11 (AERO-MARINE)
 010 -- NEW ENGLAND AIRWAYS
 011 -- POP/USCG BASED HELICOPTERS
 012 -- SKYMASTER (KATONA)
 013 -- CESSNA 150 (KATONA)
 014 -- CESSNA 206 (RECON)
 015 -- CESSNA 172
 050 -- MISC OPPORTUNISTIC/HISTORICAL AIRCRAFT

84?
86.3?

0354 HUMAN ACTIVITIES

0 -- COMMERCIAL FISHING FLEET SEEN
 1 -- AIRCRAFT: SUPERSONIC
 2 -- AIRCRAFT: SUBSONIC
 3 -- AIRCRAFT: TURBOPROP
 4 -- AIRCRAFT: PROPELLER
 5 -- HELICOPTER
 6 -- DIVERS PRESENT
 7 -- SWIMMERS PRESENT
 8 -- MULTIPLE ACTIVITIES
 9 -- SEVERAL COMMERCIAL FISHING BOATS SEEN
 A -- SONAR IN USE

B -- BUOY TENDING
 C -- TENDING OIL RIG
 D -- RESEARCH ACTIVITY
 E -- EXPLOSIVE DISCHARGED
 F -- CABLE/PIPE LAYING
 G -- DRILLING
 H -- DREDGING
 I -- DUMPING: GARBAGE
 J -- DUMPING: TOXIC WASTE
 K -- OIL SEEPAGE
 L -- COMMERCIAL FISHING: LONGLINE
 M -- COMMERCIAL FISHING: NET
 N -- COMMERCIAL FISHING: SINGLE BOAT
 O -- SPORT FISHING
 P -- COMMERCIAL SHIP: LARGE, SINGLE
 O -- COMMERCIAL SHIP: LARGE, MORE THAN ONE
 R -- COMMERCIAL SHIP: SMALL, SINGLE
 S -- COMMERCIAL SHIP: SMALL, MORE THAN ONE
 T -- SAILBOAT: SINGLE
 U -- SAILBOAT: MORE THAN ONE
 V -- RECREATIONAL MOTOR BOAT: SINGLE
 W -- RECREATIONAL MOTOR BOAT: MORE THAN ONE
 X -- BOAT TRAFFIC: LIGHT
 Y -- BOAT TRAFFIC: HEAVY
 Z -- SUBMARINE
 10 -- OIL DRILL SHIP
 11 -- FIXED FISHING GEAR
 12 -- OIL RIG
 13 -- UNIDENTIFIED FISHING VESSEL

0355 GLARE LOCATION

B -- BOTH PORT AND STARBOARD
 P -- PORT
 S -- STARBOARD
 U -- UNKNOWN

0356 GROUP SIZE

-- BLANK - ONLY ONE GROUP
 0 -- NO MODAL GROUP SIZE - ALL GROUPS OBSERVED ARE DIFFERENT SIZES
 1 -- ONE-TWO ANIMALS PER GROUP
 2 -- THREE ANIMALS PER GROUP
 3 -- FOUR ANIMALS PER GROUP
 4 -- FIVE THRU TEN ANIMALS PER GROUP
 5 -- ELEVEN THRU TWENTY ANIMALS PER GROUP
 6 -- TWENTY-ONE THRU ONE HUNDRED ANIMALS PER GROUP
 7 -- NUMBERS IN EXCESS OF ONE HUNDRED ANIMALS PER GROUP

0500 LAT HEMISPHERE

N -- NORTH
S -- SOUTH
0501 LON HEMISPHERE

E -- EAST
W -- WEST

TAXCODE	ABREV	NAME
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02		MAMMALIA (C)
0217		CETACEA (C)
021802		DOLPHINIDAE (F)
0218020101		ROUGH TOOTHED DOLPHIN
0218020401		BOTTLENOSE DOLPHIN
0218020501		SPINNING DOLPHIN
0218020502		SPOTTED DOLPHIN (C. PAC.)
021802050201		SPOTTED DOLPHIN (E. PAC.)
021802050201		SPOTTED DOLPHIN
0218020504		STRIPED DOLPHIN
0218020601		SAD DOLPHIN
0218020701		SH. SNOUT N. BELLY DOLPHIN
0218020803		PACIFIC WHITESTIDE DOLPHIN
0218021001		N. RIGHT WHALE DOLPHIN
0218021101		GRAY GRAMPUS
0218021301		PYGMY KILLER WHALE
0218021401		FALSE KILLER WHALE
0218021502		SHORTFIN PILOT WHALE
0218021601		KILLER WHALE
0218021801		HARBOR PORPOISE
0218022001		DALLYS PORPOISE
0218030101		DELUKHA
0218030201		NARWHAL
0218040101		SPERM WHALE
0218040201		PYGMY SPERM WHALE
0218040202		DWARF SPERM WHALE
0218050102		N PAC GIANT BTLNOSE WHALE
0218050201		GOOSE-BEAKED WHALE
0218050604		GINKGO TOOTH WHALE
0218050606		ARCHBEAK WHALE
0218050608		SABERTOOTH WHALE
0219		CETACEA MYSTICETI (C)
0219010101		GRAY WHALE
021902		HALAENOPTERIDAE (F)
0219020101		MINKIE WHALE
0219020102		BRYDE WHALE
0219020103		SEI WHALE
0219020104		FIN WHALE
0219020105		BLUE WHALE
0219020201		HUMBACK WHALE
0219030101		BLACK RIGHT WHALE
0219030102		BROWNHEAD WHALE
0220		CARNIVORA (C)
0220010101		POLAR BEAR
0220020101		SEA OTTER
0221		PINNIPEDIA (C)
022101		OTARIDAE (F)
0221010301		CALIFORNIA SEA LION
0221010501		NORTHERN SEA LION
0221010601		NORTHERN FUR SEAL
0221010708		GUADALUPE FUR SEAL
0221020101		WALRUS
022103		PHOCIDAE (F)
02210301		SEAL (PHOCIA) (G)
0221030101		LARGHA SEAL

TAXCODE	ABBRV	NAME
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9221030102		RINGED SEAL
9221030105		FUR SEAL
9221030106		RIBBON SEAL
9221030107		HARBOR SEAL
922103010701		HARBOR SEAL
9221030101		BEARDED SEAL
9221030401		HOODED SEAL
9221031002		NORTHERN ELEPHANT SEAL

TAXCODE	ABBREV	NAME
-----	-----	-----
92		MAMMALIA (C)
9217		CETACEA (C)
921802		DELPHINIDAE (F)
9218020101		ROUGH TOOTHED DOLPHIN
9218020201		BOTTLENOSE DOLPHIN
9218020301		SPINNING DOLPHIN
9218020402		SPOTTED DOLPHIN (C. PAC.)
921802050201		SPOTTED DOLPHIN (E. PAC.)
921802050201		SPOTTED DOLPHIN
9218020504		STRIPED DOLPHIN
9218020601		SADDLEBACK DOLPHIN
9218020701		SNOUT & BELLY DOLPHIN
9218020803		PACIFIC WHITESTREAK DOLPHIN
9218021001		N. RIGHT WHALE DOLPHIN
9218021101		GRAY GRAMPUS
9218021301		PYGMY KILLER WHALE
9218021401		FALSE KILLER WHALE
9218021502		SHORTFIN PILOT WHALE
9218021601		KILLER WHALE
9218021801		HARBOR PORPOISE
9218022001		CALLOS PORPOISE
9218020101		BELUKHA
9218030201		MAMMAL
9218040101		SPERM WHALE
9218040201		PYGMY SPERM WHALE
9218040202		DWARF SPERM WHALE
9218050102		N PAC GIANT BTLNOSE WHALE
9218050201		GOOSE-BEAKED WHALE
9218050604		STINKGO TOOTH WHALE
9218050606		ARCHBEAK WHALE
9218050608		SABERTOOTH WHALE
9219		CETACEA MYSTICETI (C)
9219010101		GRAY WHALE
921902		BALENOPTERIDAE (F)
9219020101		MINKE WHALE
9219020102		BRYDE WHALE
9219020103		SEI WHALE
9219020104		FIN WHALE
9219020105		BLUE WHALE
9219020201		HUMPBACK WHALE
9219030101		BLACK RIGHT WHALE
9219030102		BOWHEAD WHALE
9220		CARNIVORA (C)
9220010101		POLAR BEAR
9220020101		SEA OTTER
9221		PINNIPEDIA (C)
922101		OTARIIDAE (F)
9221010301		CALIFORNIA SEA LION
9221010501		NORTHERN SEA LION
9221010601		NORTHERN FUR SEAL
9221010708		GUADALUPE FUR SEAL
9221020101		WALRUS
922103		PHOCIDAE (F)
92210301		SEAL (PHCCA) (G)
9221030101		LARGHA SEAL

TAXCODE	ABBREV	NAME
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9221030102		RINGED SEAL
9221030105		HARP SEAL
9221030106		RIBBON SEAL
9221030107		HARBOR SEAL
922103010701		HARBOR SEAL
9221030301		BEARDED SEAL
9221030401		HOODED SEAL
9221031002		NORTHERN ELEPHANT SEAL

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
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9000139	F127	TV6043	9999	31SW	3191	1989/09/20	890001-3	192024

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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9000139	F127	TV6043	3191	1526	4473	89/09/20	89/11/03

(1 row affected)