

# DATA DOCUMENTATION FORM

NOAA FORM 24-13

(4-77)

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. 41-R2651  
EXPIRES 1-81

DDF-B:1.02

(While you are not required to use this form, it is the most desirable mechanism for providing the required auxiliary 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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
John Burns Alaska Department of Fish & Game 1300 College Rd Fairbanks AK 99701			
RU # 231 RU # 230			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Outer Continental Shelf Energy Program - NOAA/BLB		676 P2V	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
P2V aircraft	aircraft	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR
		040876	042376
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		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)			
Kathryn J. Frost 907-452-1531			

# 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
latitudes longitudes	degrees, minutes, seconds	GNS navigational system		
ice characteristics	octas of ice, 9 digit OCSEP ice code	visual determinations		
animal counts		visual counts		

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

File Type 026

Record Types 1-6 differentiated by byte 10

- 1 - Header
- 2 - Environmental
- 3 - Ice
- 4 - Sighting
- 5 - Group
- 6 - Text

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

spss data are organized by date of survey and by survey leg number. Record types 1 and 2 are present for all flight legs flown. Record types 3-6 appear as appropriate. Sequence #s order the entire deck

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐ \_\_\_\_\_ LANGUAGE

RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

Michael Crane AEIDC 907-279-4523

ADDRESS 707 A Street, Anchorage AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

## RECORD FORMAT DESCRIPTION

1-13.77

RECORD NAME Header (Marine Mammal Sighting 2)

16. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Starting Date-Time,					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Starting Latitude,					
Degrees	35	2	Bytes	I2	
Minutes	37	2	Bytes	I2	
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' or 'S'
Starting Longitude,					
Degrees	42	3	Bytes	I3	
Minutes	45	2	Bytes	I2	
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	'E' or 'W'
Ending Time,					
Hour	50	2	Bytes	I2	00-23
Minute	52	2	Bytes	I2	00-59
Ending Latitude,					
Degrees	54	2	Bytes	I2	
Minutes	56	2	Bytes	I2	
Seconds	58	2	Bytes	I2	
Hemisphere	60	1	Bytes	A1	'N' or 'S'

1007 77

# RECORD FORMAT DESCRIPTION

RECORD NAME Header cont'd (Marine Mammal Sighting 2)

1-17, 77

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Ending Longitude,					
Degrees	61	3	Bytes	I3	
Minutes	64	2	Bytes	I2	
Seconds	66	2	Bytes	I2	
Hemisphere	68	1	Bytes	A1	'E' or 'W'
Elapsed Time,					
Hours	69	2	Bytes	I2	00 - 23
Minutes	71	2	Bytes	I2	00 - 59
Distance Along Track	73	5	Bytes	I5	Nautical Miles to tenths
Number of Observers	78	1	Bytes	I1	
Type of Leg Code	79	1	Bytes	A1	(Use File 026 Type of Leg Code)
Blank	80	1	Bytes	1X	

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## RECORD FORMAT DESCRIPTION

RECORD NAME Environmental (Marine Mammal Sighting 2)

1-19-77

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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Flight/Station Number	11	10	Bytes	A10	Analogous to MODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Platform Type Code	25	1	Bytes	A1	
Platform I.D. Code	26	3	Bytes	I3	Originator's internal code (Use File 027 Platform I.D. Code)
Platform Direction	29	3	Bytes	I3	Planned course of platform in whole degrees
Altitude	32	4	Bytes	I4	Whole meters
True Ground Speed	36	3	Bytes	I3	Whole knots
Primary Track Width	39	5	Bytes	I5	Nautical miles to hundredths
Secondary Track Width	44	5	Bytes	I5	Nautical miles to hundredths
Total Track Width	49	6	Bytes	I6	Nautical miles to hundredths
Total Area Surveyed	55	4	Bytes	I4	1° Track
Total Area Surveyed	59	4	Bytes	I4	2° Track
Blank	63	1	Bytes	1X	
Visibility Code	64	1	Bytes	A1	WMO Code 4300
Cloud Amount Code	65	1	Bytes	A1	WMO Code 2700
Air Temperature	66	3	Bytes	I3	Degrees Celsius

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22 Feb 77

14. FIELD NAME	15. POSITION FROM-1 MEASURED in Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wind Direction	69	3	Bytes	I3	Whole degrees
Wind Speed	72	2	Bytes	I2	Whole knots
Blank	74	1	Bytes	1X	
Sea State Code	75	1	Bytes	A1	WMO Code 3700
Weather Code	76	2	Bytes	A2	WMO Code 4677
Collection Method Code	78	1	Bytes	A1	(Use File 027 Collection Method Code)
Blank	79	2	Bytes	2X	

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22 Feb 77  
KF

# RECORD FORMAT DESCRIPTION

RECORD NAME Ice (Marine Mammal Sighting 2)

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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Flight/Station Number	11	10	Bytes	A10	
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
<u>Replicate 1</u>					
Time of Observation					
Hour	25	2	Bytes	I2	
Minute	27	2	Bytes	I2	
Ice Codes,					
Type Code	29	1	Bytes	A1	(use File 027 Type Code)
Octas of Thin Ice	30	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Thin Ice	31	1	Bytes	A1	(use File 027 Ice Characteristics Code)
Octas of Moderate Ice	32	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Moderate Ice	33	1	Bytes	A1	(use File 027 Ice Characteristics Code)
Octas of Heavy Ice	34	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Heavy Ice	35	1	Bytes	A1	(use File 027 Ice Characteristics Code)
Deformation Code	36	1	Bytes	A1	(use File 027 Deformation Code)
Transect Width Code	37	1	Bytes	A1	(use File 027 Transect Width Code)
<u>Replicates 2, 3 and 4</u>	38	39	Bytes	3(2I2,9A1)	Repetition of Above
Blank	77	4	Bytes	4X	

10 Oct 77  
23 Feb 77



# RECORD FORMAT DESCRIPTION

RECORD NAME Sighting (Marine Mammal Sighting 2)

14. FIELD NAME	15. POSITION FACD-1 WRAPPED INBYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Taxonomic Code	25	10	Bytes	5A2	
Subspecies Code	35	2	Bytes	A2	
Total Number of Individuals	37	5	Bytes	I5	1° Track
Confidence Code	42	1	Bytes	A1	(use File 027 Confidence Code)
Total Number of Individuals	43	5	Bytes	I5	2° Track
Confidence Code	48	1	Bytes	A1	(use File 027 Confidence Code)
Total Number of Individuals Sighted	49	5	Bytes	I5	1° and 2° Track
Confidence Code	54	1	Bytes	A1	(use File 027 Confidence Code)
Number of Pups	55	3	Bytes	I3	1° Track
Number of Pups	58	3	Bytes	I3	2° Track
Number of Groups	61	3	Bytes	I3	1° Track
Number of Groups	64	3	Bytes	I3	2° Track
Mammal Activity	67	2	Bytes	A2	(use File 027 Mammal Activity Code)
Text	69	4	Bytes	A4	Transport Mode
Total Number of Individuals Sighted	73	5	Bytes	I5	
Blank	78	3	Bytes	3X	

1001 77

# RECORD FORMAT DESCRIPTION

RECORD NAME Group (Marine Mammal Sighting 2)

12. 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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Taxonomic Code	25	10	Bytes	5A2	
Subspecies Code	35	2	Bytes	A2	
Time,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Track Number	41	1	Bytes	I1	(use File 026 Track Number Code)
Group 1	42	2	Bytes	I2	Whole number
Group 2	44	2	Bytes	I2	Whole number
Group 3	46	2	Bytes	I2	Whole number
Group 4	48	2	Bytes	I2	Whole number
Group 5	50	2	Bytes	I2	Whole number
Group 6	52	2	Bytes	I2	Whole number
Group 7	54	2	Bytes	I2	Whole number
Group 8	56	2	Bytes	I2	Whole number
Group 9	58	2	Bytes	I2	Whole number
Group 10	60	2	Bytes	I2	Whole number
Group 11	62	2	Bytes	I2	Whole number
Group 12	64	3	Bytes	I3	Whole number
Group 13	67	3	Bytes	I3	Whole number

1-10-55

1-10-55

22 Feb 77  
X 11

10 Oct 77

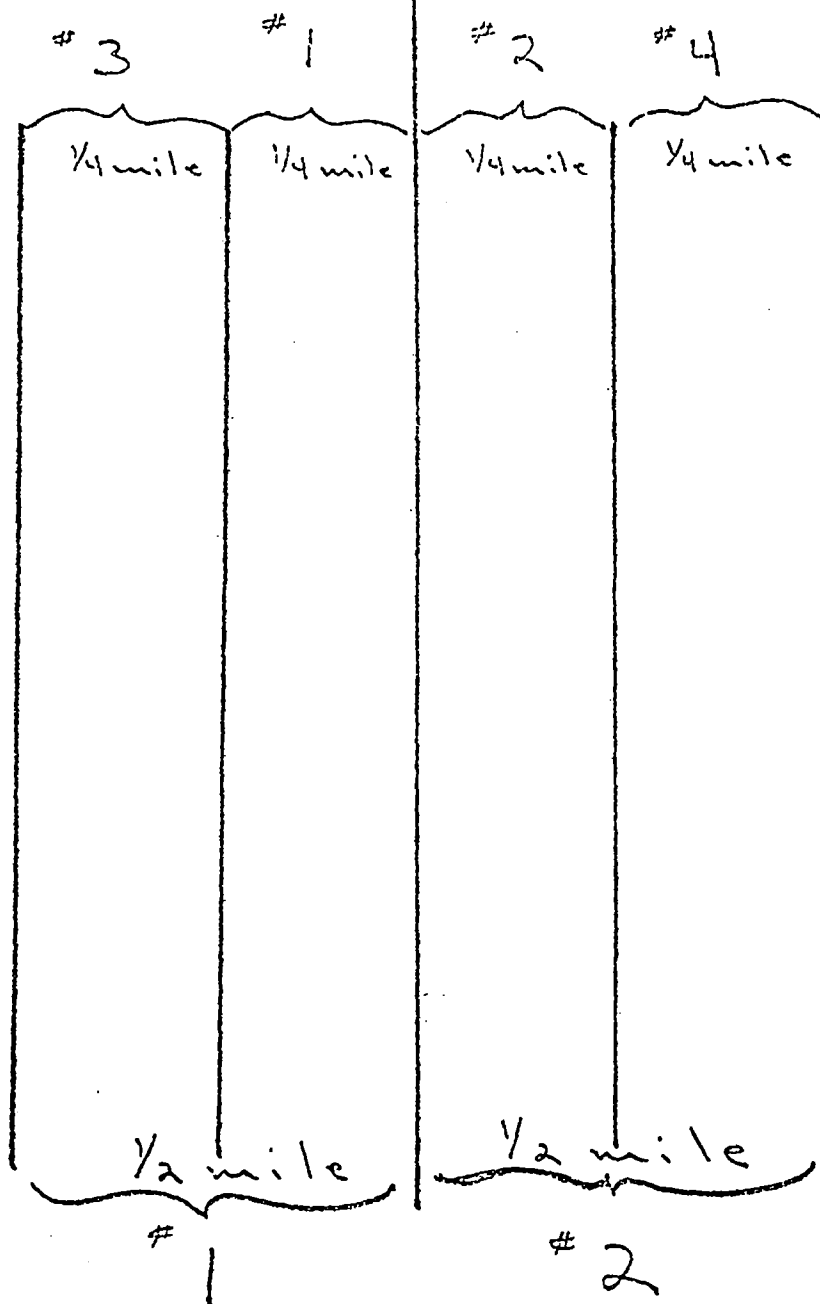
## RECORD FORMAT DESCRIPTION

RECORD NAME Text (Marine Mammal Sighting 2)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN BYTES (e.g., 810, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '6'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Text	25	56	Bytes	56A1	Any alphanumeric information

Transect

Layout



# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

1300 COLLEGE ROAD  
FAIRBANKS 99701

JAY S. HAMMOND, GOVERNOR

February 7, 1978

Jim Audet  
NODC ODSEAP Data Coordinator  
U.S. Department of Commerce NOAA  
2001 Wisconsin Avenue  
Washington, DC 20235

Dear Jim:

Enjoyed meeting and talking with you in Barrow - sorry we didn't find more time. I have several items of business.

1) Sure would like to have the most recent copy of the new taxonomic code in as condensed a form as possible. \*

2) I believe the most recent copy of the 676P2V data received by you was not resequenced before submission. Could you, at your convenience (or Mike Crane's), resequence it and mail me a copy of the tape. \*

3) Bruce Krogman at NMFS ran his check program on the 676P2V data and the following errors have been identified:

Card ID		
✓ 026676P2V10110760408	63/4	
✓ 026676P2V10118760408	55/6	
✓ 026676P2V50123760408	25/8913040101	
6 cards in error-last digit of species code missing-should be 1		
✓ 026676P2V10131760408	56/2800	
✓ 026676P2V10134760408	46/0	
✓ 026676P2V20115760409	delete this card	
✓ 026676P2V50116760409	23/--8913040101	37/2217303
✓ 026676P2V30137760409	34/0-15041512-5501-15	
✓ 026676P2V30102760411	50/51947124340-15	

DIP  
info

zero in second  
byte of minutes  
field of longitude

✓ Ice already  
indicated as  
present

✓ corrected  
✓ corrected

February 7, 1978

DIP

✓ 026676P2V-0115760411 10/5  
2 cards following seq. #997

✓ 026676P2V1101237604191479 34/0

✓ 026676P2V301247604201960 47/0

✓ 026676P2V101107604212261 49/E

✓ 026676P2V101227604212430 55/6

✓ - Ice-present

? - Does DIP  
have East

Jim, thanks for everything. Certainly appreciate your help.

Sincerely,



Kathy Frost  
Marine Mammals Biologist  
Division of Game

cc: Mike Crane

re Corrections - 1<sup>st</sup> # is space in which correction  
begins, # to right of slash is the correction

## CORRECTIONS 77-0222

File ID changed to TR0547

One blank record removed.

The two (2) cards following record with Seq# 997 had a blank in col 10. These 2 records were made type '5'. See letter from ADFG.

In record '1' station 0110760408 a 2 in col 63 corrected to 4. See ADFG letter.

In record '1' station 0118760408 a 9 in col 55 corrected to 6. See ADFG letter.

Record '5' station 0123760408 a 1 added to last <sup>missing</sup> digit of species code - for 6 records  
See ADFG letter. ✓

In record '1' station 0131760408 characters 1312 in cols 56-59 corrected to 2800. See ADFG letter



## CORRECTIONS 77-0222

In record '1' station 0134760408 a 3 in col 46 corrected to 0.

Deleted record '2' of station 0115760409 with sequence # 433

In record '5' station 0116760409 cols 23-32 ✓ shifted to 25-34 and cols 35-41 shifted to 37-43 to agree with format. See ADFG letter.

In record '3' station 0137760409 a zero (0) was put in col 34 and remaining data shifted 1 place to right. See ADFG letter.

In a record '3' station 01027060411 a five (5) was put in col 50 and data in cols. 50-62 were shifted 1 place to the right. See ADFG letter.

In a record '1' station 0123760419 seq # 1479 a 1 in col 34 was corrected to 0. See ADFG letter.

## CORRECTIONS 77-0222

In a record '3' station 0124760420  
seq # 1960 a 6 in col 47 was corrected to  $\phi$ .  
See ADFG letter.

In a record '1' station 0110760421 seq # 2261  
a W in col 49 was corrected to E. See ADFG letter.

In a record '1' station 0122760421 seq # 2430  
unright in col 55 was corrected to 6. See ADFG letter.

In a record '1' station 0122760408 seq # 17  
data in cols 24-67 shifted 1 place to right — to  
cols 25-68. See NSDCHK

In a record '1' station 0113760411 seq # 968  
a ? in col 71 corrected to a 1. See NSDCHK

In a record '2' station 0103760419 seq # 1197  
data in cols 63-64 shifted to cols 64-65. See NSDCHK

In a record '2' station 0101760420 seq # 1613  
data in cols 63-64 shifted to cols 64-65. See NSDCHK

## CORRECTIONS 77-0272

In a record '2' station 0101760423 seq # 2443  
data in cols 66-68 corrected from - 5  
to -05

In a record '2' station 0103760423 data in cols 32-33  
shifted to cols 34-35.

Orig Tape had 2172 records

Corrected (this) tape has 2165 records

1 completely blank record removed

2 records with blank lines C. 10 made '5' station

1 record deleted - see notes

Repeated stations, see NSDCHEK

a record '5' station<sup>#</sup> 0121760408 this  
station corrected to 0120760408

a record '5' station 0129760409

among 0124760420 stations. This record  
deleted here but inserted in its correct  
sequence of 0129760409 stations.

(5)

## CORRECTIONS 77-0222

a record '5' station # 0103760421 seq # 2089  
found among 0104760421 stations. This  
record deleted here but inserted in  
its correct sequence with 0103760421 stations.

a record '5' station # 0123760419  
found among 0122760419 stations. Station  
# corrected to 0122760419

9/1/78

To Elaine  
From Tim Andert

77-0222

File Type 026

TR 0547

① Change entry in record 3

DEFORM CODE  
Flight/Station # 0120760408, record 3, sequence # 0169  
col 47  
From 000K  
to OK15  
correction  
made  
10/20/78  
CMT

② Need to resequence entire data set from first record to last to eliminate records with blank seq. # and to correct imbedded blank seq. # as noted in check run. Resequencing made 10/20/78

Crane has already done this to his copy of this data file. He thought he had sent us a corrected version but decided that he only informed us (me) of the problem. I believe I told him that we would run a check and see what else showed up.

77-0222 file 026 TR0547

Corrected User Tape:

TRK, DSN=FR0ST, LABEL=SL, VOL=SER=003508,  
DCB=(LKECL=80, BLKSIZE=4000, RECFM=FB)

2168 records

corrected data set on disk: F222 <sup>DUSE 267</sup> H. DATA, DISP=SHR

4000  
801 2000  
150 + 1/2  
14  
150 2168  
150  
668  
600  
68

026

SDF1 020131  
SDF2 001530  
ANSI 000327

TR 547-550, 757 | 1059-1086, 3261

10,164

77-0222  
OCSEAP MARINE MAMMAL  
SIGHTING & DATA (FORMAT-026)  
ADEG  
(TR0547)-554, TR0757

## DATA DOCUMENTATION FORM

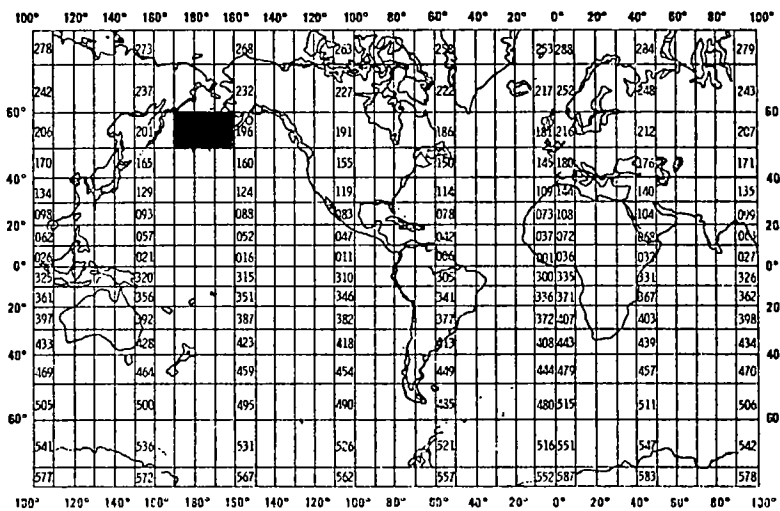
TR0757

77-0222  
TR0547NOAA 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

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## 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 Alaska Department of Fish and Game 1300 College Road Fairbanks, Alaska 99701 R.U. #230 + 231			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Outer Continental Shelf Energy Program		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 676P2V + 676HEL	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) P2V aircraft Bell Helicopter	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR US US	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 760327 760501
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Lynn Vaughan Kathy Frost			



# B. SCIENCE 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
		N/A		

# C. DATA FORMAT

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

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

Record types # 1,2,3,4,5,&6 identified by their respective numbers located in column 10.

~~FILE TYPE MISLABELLED AS 027. ON TAPE~~

- GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File identifier 676P2V is listed in four groupings of record types in #1,2,3,6,4,5, &6 order. These groups are separated by seal species. Record types #1,2,3,&6 are duplicated for each species. Record types #4,5, & 6 change for each species.

~~676P2V is numbered from 0 to 6182.~~

~~676HEL follows 676P2V and is numbered from~~

~~1-460.~~

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

- RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Jim Baldridge 907 479-7347

ADDRESS Geophysical Institute University of Alaska Fbks. Ak 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input checked="" 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 type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input 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> <del>230 026 676P2V &amp; 676HEL</del> 026 Burns RV231 <del>P2V &amp; Bell Helicopter</del> 2-9-77 1 Reel <del>670327 760501 Vaughan, L.</del> <del>2-track, 800 BPI, BCD</del> Replaces all data
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 80 <b>13. LENGTH OF BYTES IN BITS</b>

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## HEADER RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File Type	1	3 '026'
File Ident.	4	6
Record type	10	1 "1"
Flight/Station number	11	10 Alphanumerics
Sequence number	21	4
Start date/time GMT	25	10 YMD Hr/Min/Sec
Start latitude	35	7 Deg/Min/Sec N/S
Start longitude	42	8 Deg/Min/Sec E/W
End time GMT	50	4 Hr/Min
End latitude	54	6 Deg/Min/Sec
N	60	1
End longitude	61	1 Deg/Min/Sec
W	68	1
Elapsed time	69	4 Hr/Min
Distance along track	73	5 Nautical miles to .1
No. of Observers	78	1
Blank	79	2

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## ENVIRONMENTAL RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File ident.	4	6
Record type	10	1 "2"
Flight/Station number	11	10 Alphanumerics
Sequence No.	21	4
Platform type	25	1
Platform I.D. code	26	3
Platform direction	29	3 Deg.
Altitude	32	4 Meters
True ground speed	36	3 knots
Primary track width	39	5 Nautical miles to .01
Secondary track width	44	5 Nautical miles to .01
Total track width	49	6 Nautical miles to .01
Total area surveyed	55	4 1 <sup>o</sup> track
Total area surveyed	59	4 2 <sup>o</sup> track
Visibility code	63	2
Cloud Amt.	65	1
Air temp.	66	3 Degrees C
Wind direction	69	3 Degrees
Wind velocity	72	2 knots
Precipitation	74	1
Sea state	75	1
Weather	76	2
Collection method	78	1
Blank	79	2

Blank  
vis. code

63  
64

7

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## ICE RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>	
File type	1	3	
File ident.	4	6	
Record type	10	1	"3"
Flight/Station number	11	10	
Sequence number	21	4	
(Time of Observation	25	4 Hr/Min)	Replicate 1
(Ice Codes	29	8 )	
(Time	37	4 Hr/Min)	Replicate 2
(Ice Codes	41	8 )	
(Time	49	4 Hr/Min)	Replicate 3
(Ice Codes	53	8 )	
(Time	61	4 Hr/Min)	Replicate 4
(Ice Codes	65	8 )	
Blank	73	8	

Blank

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## SIGHTING RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "4"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Total number of individuals	37	5 1 <sup>0</sup> track
Confidence code	42	1
Total number of individuals	43	5 2 <sup>0</sup> track
Confidence code	48	1
Total number individuals sighted	49	5
Confidence code	54	1
Number pups	55	3 1 <sup>0</sup> track
Number pups	58	3 2 <sup>0</sup> track
Number of groups	61	3 1 <sup>0</sup> track
Number of groups	64	3 2 <sup>0</sup> track
Manual activity	67	2
Transport mode	69	4
Blank	73	8
	76	3

total no. indiv. sighted 73 + 1

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## GROUP (2) RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "5"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Time	37	4 Hr/Min
<del>Group 1 Track #</del>	41	1
Group 21	42	2
Group 32	44	2
Group 43	46	2
Group 54	48	2
Group 65	50	2
Group 76	52	2
Group 87	54	2
Group 98	56	2
Group 109	58	2
Group 1110	60	2
Group 1211	62	2
Group 1312	64	3
Group 1413	67	3
Group 1514	70	3
Group 1615	73	4
Group 1716	77	4
Group 18		
Group 19		
Group 20		

as of 9-9-76

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

TEXT RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "4" 6
Flight/Station number	11	10
Sequence number	21	4
Text	25	56



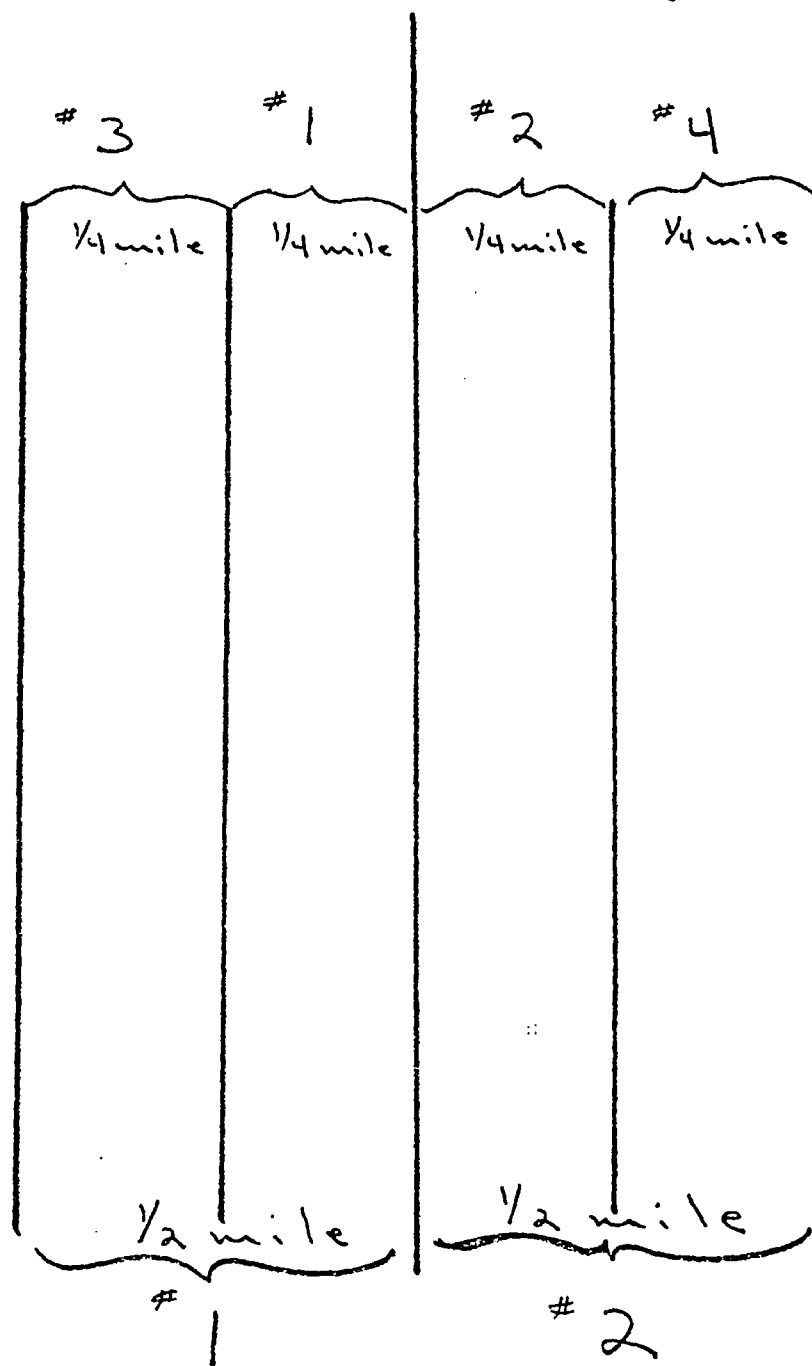
Transect

Layout

FileType 026

File ident. 676 P20

676 HEL



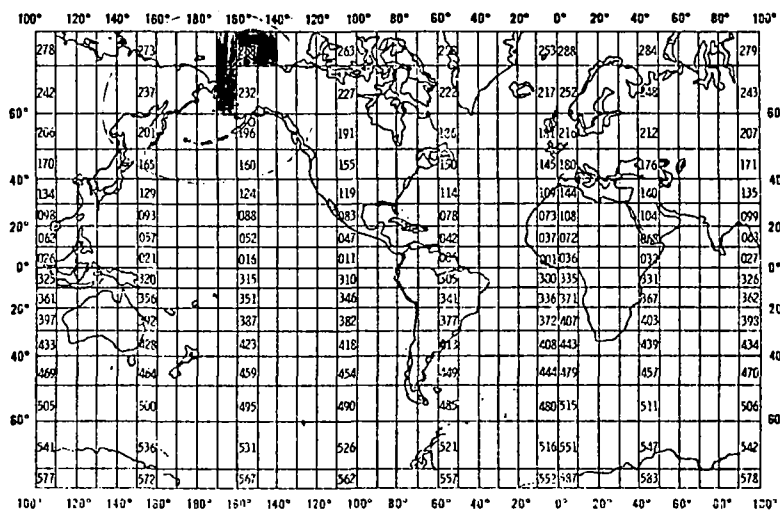
## DATA DOCUMENTATION FORM

77-0222  
TRO548NOAA 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			
Alaska Department of Fish and Game 1300 College Road Fairbanks, Alaska 99701 R.U.# 230			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Outer Continental Shelf Energy Program		76C180	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
	Cessna 180	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
			06/14/76 06/15/76
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input checked="" 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. CHURCH / BEAUFORT 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 checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Lynn Vaughan Kathy Frost			

76C 180

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	deg/min/sec		accurate to minutes only	
longitude	deg/min/sec		accurate to minutes only	

## 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

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

Record Types #1,2,3,4,5,& 6 of file type 026.

~~FILE TYPE MISLABELLED AS 027 ON TAPE.~~

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Replications of record types 1,2,3,4,5,& 6 are listed according to the leg number and date of the transect reported on.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER *Mike Crane / Kathy Frost*  
Jim Baldrige 907 479-7374  
ADDRESS *Geophysical Institute University of Alaska Fbnks, AK*  
99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input checked="" 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 type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b> <del>23 026 76C180</del> <del>Cessna 180</del> <del>76/06/11 - 76/06/15 Vaughan</del> <del>7-track, 800 BPI, BCD</del> <i>026 Burns RV231</i> <i>2-9-77 1 Reel</i> <i>Replaces all data</i>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> _____ <b>13. LENGTH OF BYTES IN BITS</b> _____

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

HEADER RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File Type	1	3 '026'
File Ident.	4	6
Record type	10	1 "1"
Flight/Station number	11	10 Alphanumerics
Sequence number	21	4
Start date/time GMT	25	10 YMD Hr/Min/Sec
Start latitude	35	7 Deg/Min/Sec N/S
Start longitude	42	8 Deg/Min/Sec E/W
End time GMT	50	4 Hr/Min
End latitude	54	6 Deg/Min/Sec
N	60	1
End longitude	61	1 Deg/Min/Sec
W	68	1
Elapsed time	69	4 Hr/Min
Distance along track	73	5 Nautical miles to .1
No. of Observers	78	1
Blank	79	2

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

ENVIRONMENTAL RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File ident.	4	6
Record type	10	1 "2"
Flight/Station number	11	10 Alphanumerics
Sequence No.	21	4
Platform type	25	1
Platform I.D. code	26	3
Platform direction	29	3 Deg.
Altitude	32	4 Meters
True ground speed	36	3 knots
Primary track width	39	5 Nautical miles to .01
Secondary track width	44	5 Nautical miles to .01
Total track width	49	6 Nautical miles to .01
Total area surveyed	55	4 1 <sup>0</sup> track
Total area surveyed	59	4 2 <sup>0</sup> track
Visibility code	63	2
Cloud Amt.	65	1
Air temp.	66	3 Degrees C
Wind direction	69	3 Degrees
Wind velocity	72	2 knots
Precipitation	74	1
Sea state	75	1
Weather	76	2
Collection method	78	1
Blank	79	2

026

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

ICE RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>	
File type	1	3	
File ident.	4	6	
Record type	10	1	"3"
Flight/Station number	11	10	
Sequence number	21	4	
(Time of Observation	25	4 Hr/Min)	Replicate 1
(Ice Codes	29	8 )	
(Time	37	4 Hr/Min)	Replicate 2
(Ice Codes	41	8 )	
(Time	49	4 Hr/Min)	Replicate 3
(Ice Codes	53	8 )	
(Time	61	4 Hr/Min)	Replicate 4
(Ice Codes	65	8 )	
Blank	73	8	



11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## SIGHTING RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "4"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Total number of individuals	37	5 1 <sup>o</sup> track
Confidence code	42	1
Total number of individuals	43	5 2 <sup>o</sup> track
Confidence code	48	1
Total number individuals sighted	49	5
Confidence code	54	1
Number pups	55	3 1 <sup>o</sup> track
Number pups	58	3 2 <sup>o</sup> track
Number of groups	61	3 1 <sup>o</sup> track
Number of groups	64	3 2 <sup>o</sup> track
Manual activity	67	2
Transport mode	69	4
Blank	73	8

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## GROUP (2) RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "5"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Time	37	4 Hr/Min
<del>Group 1</del> <del>Track #</del>	41	1
Group 2	42	2
Group 3	44	2
Group 4	46	2
Group 5	48	2
Group 6	50	2
Group 7	52	2
Group 8	54	2
Group 9	56	2
Group 10	58	2
Group 11	60	2
Group 12	62	2
Group 13	64	3
Group 14	67	3
Group 15	70	3
Group 16	73	4
Group 17	77	1
Group 18		
Group 19		
Group 20		

as of 9-9-76

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

TEXT RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "8" 6
Flight/Station number	11	10
Sequence number	21	4
Text	25	56

## DATA DOCUMENTATION FORM

77-0222

TR0549

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

ORIGINAL

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Alaska Dept, of Fish and Game 1300 College Road Fairbanks, Alaska 99701			
R.U.# 230 & 231 & 232			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Outer Continental Shelf Energy Program		File Identifiers 025 026 01T076	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
For File ident. 01T076:		PLATFORM	OPERATOR
Twin Otter	Airplane	U.S.	U.S.
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		01/76	06/76
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES		GENERAL AREA	
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 INTERNATIONAL EXCHANGE?)			
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" 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)			
Lynn Vaughan Kathy Frost			

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
Curvilinear Length	cm	N/A	Measured over curva- ture of body from tip of the nose to the end of the tail with head and neck in a natural position.	
Axillary Girth	cm	N/A	Taken around the body immediatly behind fore- flipper.	
Maximum Girth	cm	N/A	The largest circum- ference around the abdomen.	
Front Flipper Length	cm	N/A	The distance along the anterior border of the forelimb from the axilla to the tip of the longest digit (not claw).	
Front Flipper Width	cm	N/A	The straight line dis- tance from the tips of the first and last digits (not claws) of the spread flipper.	

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
Hind Flipper Length	cm	N/A	The distance along the posterior border of the forelimb, from axilla to tip of longest digit (not claws).	
Hind flipper Width	cm	N/A	The straight line distance from the tips of the first and last digits (not claws) of the spread flipper.	
Naval to Anus Length	cm	N/A	The curvilinear distance from the center of the umbilical scar to the anterior notch of the anus in males and to the vestibule in females.	
Penis to Anus Length	cm	N/A	The curvilinear distance from the center of the penile orifice to the anterior notch of the anus.	
Tail Length	cm	N/A	Measured from the externally visible base of the tail to the end of the tail flesh (not hair).	
Testes Volume	cubic cm	N/A	Water displacement	
Testes #1 Length	mm	N/A	Taken at the middle of the testes.	
Testes #1 Width	mm	N/A	"	"
Testes #2 Length	mm	N/A	"	"
Testes #2 Width	mm	N/A	"	"

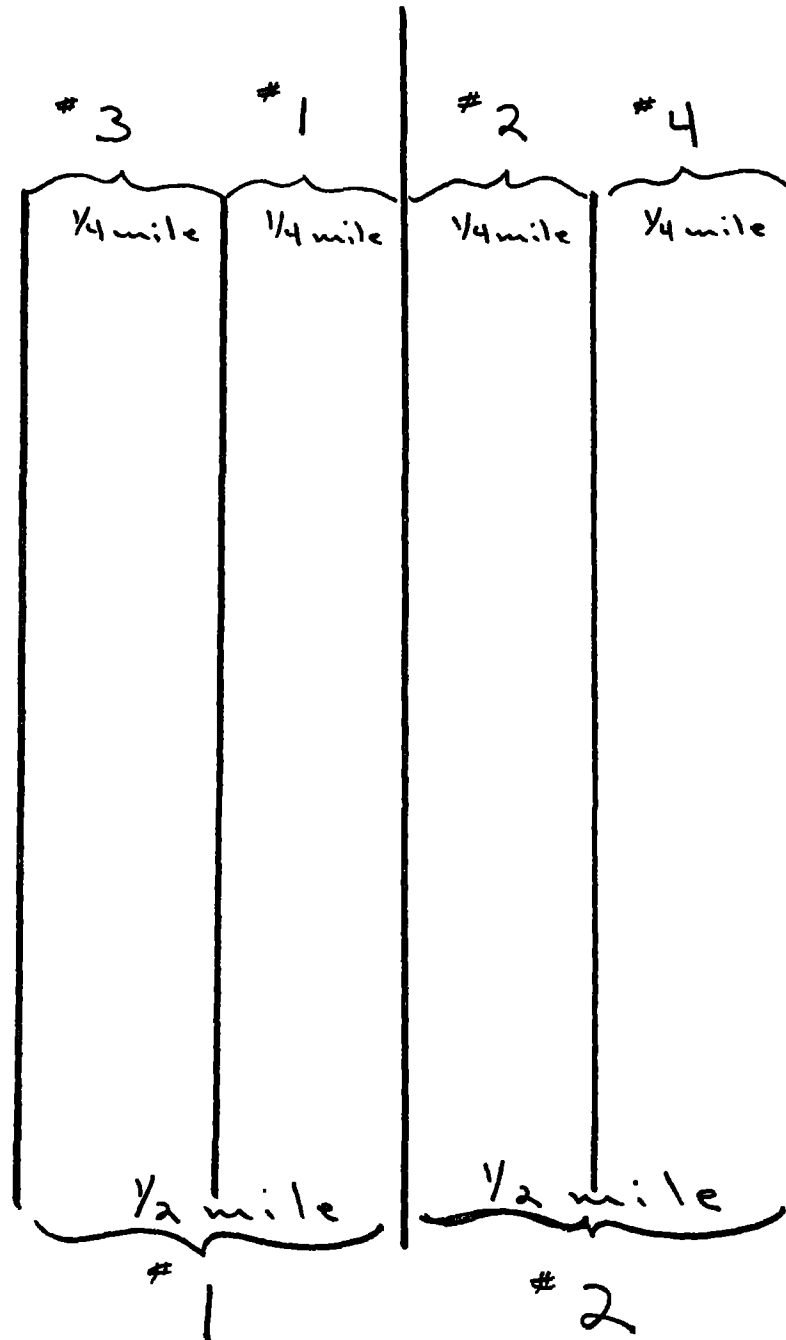
NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Presence of Sperm in Epididymis	code	N/A	Epididymis are sliced and a drop of fluid is squeezed onto a slide and examined under 78X of 300X magnification.	

## 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
Weight of full stomach	grams	Model # PL-2 Torsion Balance	Each stomach trimmed of excess esophagus and small intestine tissue. and weighed	N/A
Weight of empty stomach	grams	" "	Stomachs emptied of their contents and weighed intact.	" "
Weight of stomach contents	grams	" "	Contents from stomach transferred to Tyler screens (1.0mm and 2.0mm) where they were washed and weighed.	" "
Number of <sup>items</sup> prey species identified	numeric	N/A	Manual sorting and counting.	" "
Volume of <sup>items</sup> prey items identified	ml	Graduated cylinder	Water displacement	" "
Weight of prey identified	grams	Model # PL-2 Torsion Balance	Prey item(s) isolated and weighed.	" "
Maximum length of prey item identified	mm	Ruler	Prey itemSheld along side of a ruler.	" "
Minimum length of prey item identified	mm	Ruler	Prey itemSheld along side of a ruler.	" "



# Transect Layout



# C. DATA FORMAT

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

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

~~For File type 025 record types # 1,2,3,6,7,& 8 are being submitted. These are labeled as file ident. 760232 and 760606.~~

File type 026, file ident. 01T076 has record types # 1,2,3,4,5,& 6.

~~FILE TYPE ON TAPE IS MISLabeled 1/27~~

- GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Four file identifiers are being submitted on this tape. They are, in order, 760232, 760606, 01T076, & 01DC76. 01DC76 is documented separately.

760232 is sequenced from 1-1339. 760606 is sequenced from 1-581.  
01T076 is sequenced from 1-279. 1339

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

- RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS Geophysical Institute University of Alaska 99701

*Mike Copner / Kathy Frost*

*Jim Baldrige*

*907-479-7347*

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input checked="" 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 type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>  <del>230, 231, 232 025 &amp; 026</del> <del>026 Burns</del> <del>760323, 760606, 01T076</del> <del>pu 231</del> <del>05/75 - 06/76</del> <del>Vaughan,</del> <del>2-9-77</del> <del>1 Real</del> <del>7-track, 800 BPI, BCD</del> <del>Replaces all data</del>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> <del>1000</del> <del>2000</del> <del>4000</del> <del>FILE ON TAPE</del> <b>13. LENGTH OF BYTES IN BITS</b>

11 June 1976

For 01T076

## MARINE MAMMAL SIGHTING (TRANSECTS)

## HEADER RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File Type	1	3 026
File Ident.	4	6
Record type	10	1 "1"
Flight/Station number	11	10 Alphanumerics
Sequence number	21	4
Start date/time GMT	25	10 YMD Hr/Min/Sec
Start latitude	35	7 Deg/Min/Sec N/S } accurate to min. $\pm 1$
Start longitude	42	8 Deg/Min/Sec E/W } accurate to min. $\pm 1$
End time GMT	50	4 Hr/Min
End latitude	54	6 Deg/Min/Sec accurate to min. $\pm 1$
N	60	1
End longitude	61	1 Deg/Min/Sec accurate to min. $\pm 1$
W	68	1
Elapsed time	69	4 Hr/Min
Distance along track	73	5 Nautical miles to .1
No. of Observers	78	1
Blank	79	2

11 June 1976

For 017076

## MARINE MAMMAL SIGHTING (TRANSECTS)

## ENVIRONMENTAL RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File ident.	4	6
Record type	10	1 "2"
Flight/Station number	11	10 Alphanumerics
Sequence No.	21	4
Platform type	25	1
Platform I.D. code	26	3
Platform direction	29	3 Deg.
Altitude	32	4 Meters
True ground speed	36	3 knots
Primary track width	39	5 Nautical miles to .01
Secondary track width	44	5 Nautical miles to .01
Total track width	49	6 Nautical miles to .01
Total area surveyed	55	4 1 <sup>0</sup> track
Total area surveyed	59	4 2 <sup>0</sup> track
Visibility code	63	2
Cloud Amt.	65	1
Air temp.	66	3 Degrees C
Wind direction	69	3 Degrees
Wind velocity	72	2 knots
Precipitation	74	1
Sea state	75	1
Weather	76	2
Collection method	78	1
Blank	79	2

11 June 1976

For 0,17076

MARINE MAMMAL SIGHTING (TRANSECTS)

ICE RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File ident.	4	6
Record type	10	1 "3"
Flight/Station number	11	10
Sequence number	21	4
(Time of Observation	25	4 Hr/Min)
(Ice Codes	29	8 ) Replicate 1
(Time	37	4 Hr/Min)
(Ice Codes	41	8 ) Replicate 2
(Time	49	4 Hr/Min)
(Ice Codes	53	8 ) Replicate 3
(Time	61	4 Hr/Min)
(Ice Codes	65	8 ) Replicate 4
Blank	73	8

11 June 1976

For 015076

## MARINE MAMMAL SIGHTING (TRANSECTS)

## SIGHTING RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "4"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Total number of individuals	37	5 1 <sup>0</sup> track
Confidence code	42	1
Total number of individuals	43	5 2 <sup>0</sup> track
Confidence code	48	1
Total number individuals sighted	49	5
Confidence code	54	1
Number pups	55	3 1 <sup>0</sup> track
Number pups	58	3 2 <sup>0</sup> track
Number of groups	61	3 1 <sup>0</sup> track
Number of groups	64	3 2 <sup>0</sup> track
Mammal activity	67	2
Transport mode	69	4
Blank	73	8

11 June 1976

For 015076

## MARINE MAMMAL SIGHTING (TRANSECTS)

## GROUP (2) RECORD TYPE

Parameter Name	Byte loc	Length
File type	1	3
File Ident.	4	6
Record type	10	1 "5"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Time	37	4 Hr/Min
<del>Group 1 Track #</del>	41	1
Group 1	42	2
Group 2	44	2
Group 3	46	2
Group 4	48	2
Group 5	50	2
Group 6	52	2
Group 7	54	2
Group 8	56	2
Group 9	58	2
Group 10	60	2
Group 11	62	2
Group 12	64	3
Group 13	67	3
Group 14	70	3
Group 15	73	4
Group 16	77	4
Group 18		
Group 19		
Group 20		

as of 9-9-76

11 June 1976

For 017076

MARINE MAMMAL SIGHTING (TRANSECTS)

TEXT RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "6"
Flight/Station number	11	10
Sequence number	21	4
Text	25	56



ACCESSION  
NUMBER

76-1826

# DATA DOCUMENTATION FORM

77-0222

TR0550

FORM 24-13

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

FORM APPROVED  
O.M.B. No. 41-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	
Alaska Department of Fish and Game 1300 College Road Fairbanks, Alaska 99701	
R.U.# 230, 231, & 248	

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED	3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT
Outer Continental Shelf Energy Program	75RING

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
aerial survey	Aircraft	U.S.	U.S.
		PLATFORM	OPERATOR
		U.S.	U.S.
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		061075	061875

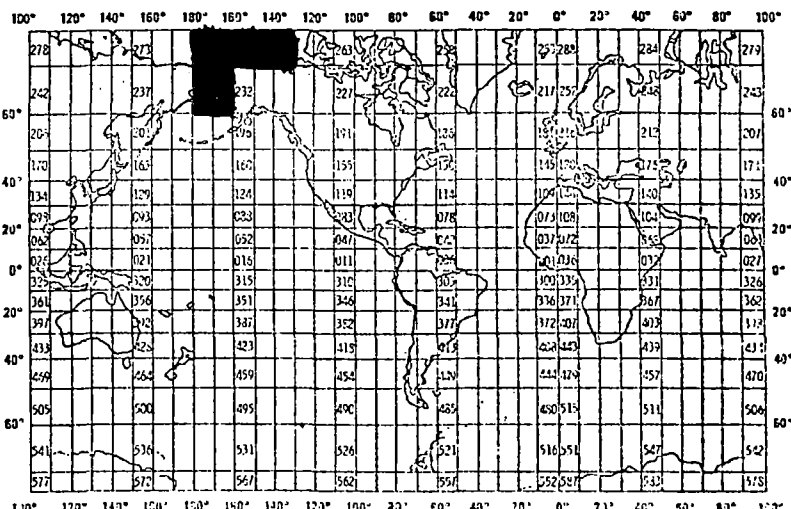
8. ARE DATA PROPRIETARY?	11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.
<input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH	GENERAL AREA

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 checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)

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

~~Lynn Vaughan~~

Kathy Frost



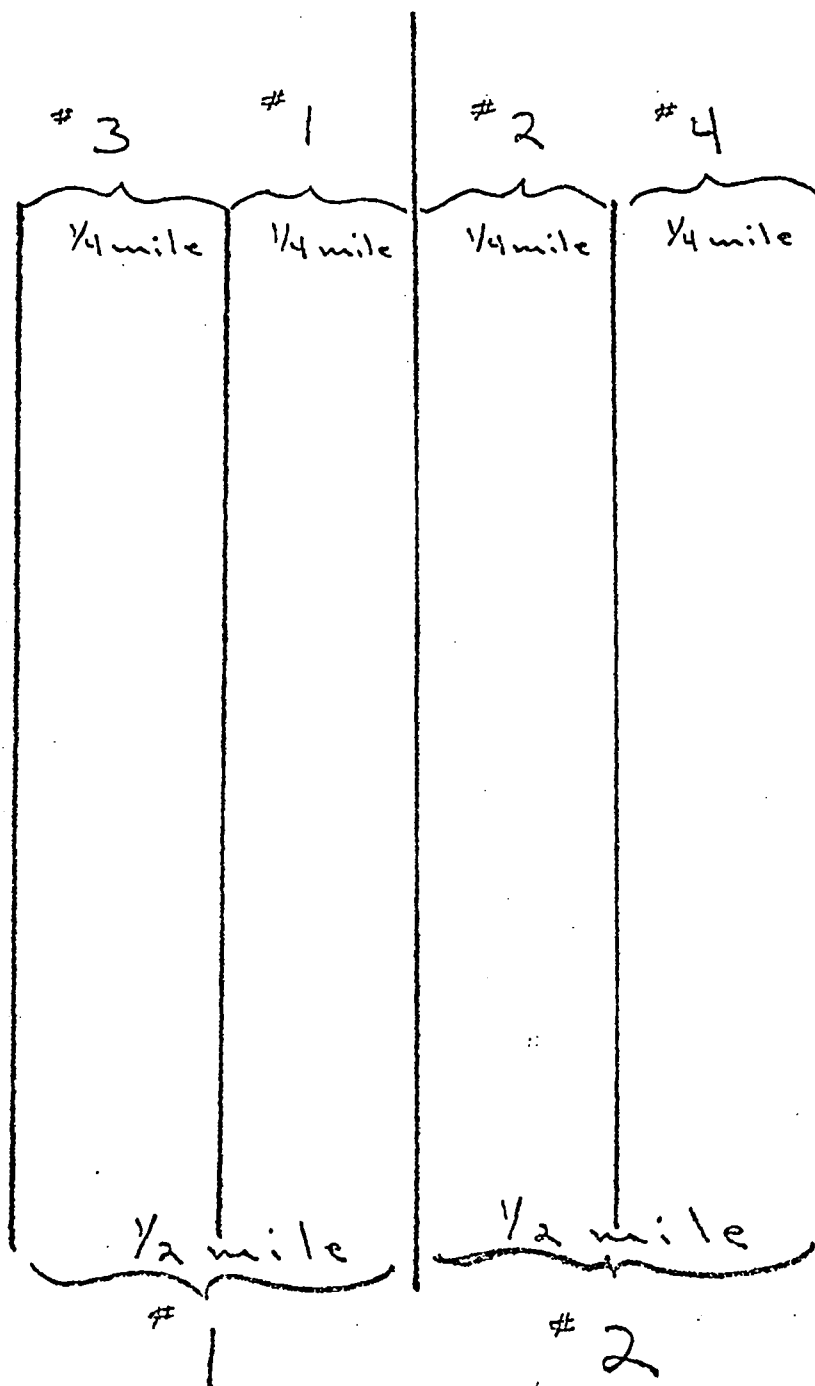
# B. SCIENTIFIC CONTENT

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
N/A	N/A			

Transect

Layout

File ident 75RING



# 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  
G. METHOD OF IDENTIFYING EACH RECORD TYPE

Record types # 1,2,3,4,5, & 6 identified by their respective numbers located in column 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Record types are ordered by leg number ( columns 13 & 14 ).  
There is usually at least one of each record type for each leg.  
~~File ident. 75RING is sequenced from 1 to 1016.~~

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Mike Chase / Kathy First  
Jim Baldrige 907-479-7874  
ADDRESS Geophysical Institute University of Alaska Fbks. Ak.  
99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input checked="" 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 type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input 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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>  026 Burns RU 231  2-9-77 1 Reel  Replaces all data
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 80	
<b>13. LENGTH OF BYTES IN BITS</b> _____	

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

HEADER RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File Type	1	3 026
File Ident.	4	6
Record type	10	1 "1"
Flight/Station number	11	10 Alphanumerics
Sequence number	21	4
Start date/time GMT	25	10 YMD Hr/Min/Sec
Start latitude	35	7 Deg/Min/Sec N/S
Start longitude	42	8 Deg/Min/Sec E/W
End time GMT	50	4 Hr/Min
End latitude	54	6 Deg/Min/Sec
N	60	1
End longitude	61	1 Deg/Min/Sec
W	68	1
Elapsed time	69	4 Hr/Min
Distance along track	73	5 Nautical miles to .1
No. of Observers	78	1
Blank	79	2

Type of leg  
 1 = Random Transsect  
 2 = Deadhead  
 3 = General  
 4 = Systematic transsect

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## ENVIRONMENTAL RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File ident.	4	6
Record type	10	1 "2"
Flight/Station number	11	10 Alphanumerics
Sequence No.	21	4
Platform type	25	1
Platform I.D. code	26	3
Platform direction	29	3 Deg.
Altitude	32	4 Meters
True ground speed	36	3 knots
Primary track width	39	<del>38</del> Nautical miles to .01
Secondary track width	44	<del>38</del> Nautical miles to .01
Total track width	49	<del>48</del> Nautical miles to .01
Total area surveyed	55	4 1 <sup>0</sup> track
Total area surveyed	59	4 2 <sup>0</sup> track
<del>Blank</del> Visibility code	<del>63</del> 64	<del>1</del> 21
Cloud Amt.	65	1
Air temp.	66	3 Degrees C
Wind direction	69	3 Degrees
Wind velocity	72	2 knots
Precipitation	74	1
Sea state	75	1
Weather	76	2
Collection method	78	1
Blank	79	2

11 June 1976

Sept 29, 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

ICE RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>	
File type	1	3	
File ident.	4	6	
Record type	10	1	"3"
Flight/Station number	11	10	
Sequence number	21	4	
(Time of Observation (Ice Codes	25 29	4 Hr/Min) 89	Replicate 1
(Time (Ice Codes	38 37 34 42 41	4 Hr/Min) 89	Replicate 2
(Time (Ice Codes	51 49 55 53	4 Hr/Min) 89	Replicate 3
(Time (Ice Codes	64 61 68 65	4 Hr/Min) 89	Replicate 4
Blank	77 73	84	

11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## SIGHTING RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "4"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Total number of individuals	37	5 1 <sup>0</sup> track
Confidence code	42	1
Total number of individuals	43	5 2 <sup>0</sup> track
Confidence code	48	1
Total number individuals sighted	49	5
Confidence code	54	1
Number pups	55	3 1 <sup>0</sup> track
Number pups	58	3 2 <sup>0</sup> track
Number of groups	61	3 1 <sup>0</sup> track
Number of groups	64	3 2 <sup>0</sup> track
Manual activity	67	2
Transport mode	69	4
Total # individuals <del>Blank</del> in/out of track	73	5 <sup>8</sup>
Blank	78	3



11 June 1976

## MARINE MAMMAL SIGHTING (TRANSECTS)

## GROUP (2) RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "5"
Flight/Station number	11	10
Sequence number	21	4
Taxonomic code	25	10
Subspecies code	35	2
Time	37	4 Hr/Min
<del>Group 1</del> <del>1</del> <del>1</del> <del>1</del>	41	1
Group 2	42	2
Group 3	44	2
Group 4	46	2
Group 5	48	2
Group 6	50	2
Group 7	52	2
Group 8	54	2
Group 9	56	2
Group 10	58	2
Group 11	60	2
Group 12	62	2
Group 13	64	3
Group 14	67	3
Group 15	70	3
Group 16	73	4
<del>Group 17</del> 16	77	4
<del>Group 18</del>		
<del>Group 19</del>		
<del>Group 20</del>		

ad 9-9-76

11 June 1976

MARINE MAMMAL SIGHTING (TRANSECTS)

TEXT RECORD TYPE

<u>Parameter Name</u>	<u>Byte loc</u>	<u>Length</u>
File type	1	3
File Ident.	4	6
Record type	10	1 "8"
Flight/Station number	11	10
Sequence number	21	4
Text	25	56

①

77-0222

CORRECTIONS TR0547

Sequence #s 129-132 of station # 0120760408  
corrected to station # 0112760408

Sequence # 294 of station 0132760408  
corrected to 0132760408

Sequence # 1009 of station 0116760411  
the longitude corrected from 0159554W  
to 1595540W

Sequence # 1197 of station 0103760419  
0 removed from column 63

Sequence # 1471 of station 0125760419  
station number corrected to 0122760419

Sequence # 1613 of station 0101760420  
0 removed from column 63

Sequence # 1879, CD type 1, station 0123760420  
record out of sequence,  
entire record inserted before its appropriate  
detail records

## CORRECTIONS (CONT.)

77-0222

Sequence # 2443 of station 0101760423  
ø placed in column 67 (air temp field)

Sequence # 2445, CD type 3, station 0102760423  
record out of sequence, entire record  
inserted within that station # grouping

Sequence # 456, CD type 5, station 0118760409  
has (DEAD) in numeric fields. (DEAD)  
removed. This record also inserted  
at end of TR0547 records, CD type 5  
changed to 6, sequence # changed to  
2520, and Animal is Dead (Changed  
at NODC) added to record.

Sequence # 865, CD type 5, station 0108760411  
has (NEWBORN) in numeric fields. (NEWBORN)  
removed. This record also inserted  
at end of TR0547 records, CD type 5  
changed to 6, sequence # changed to  
2521 and Animal is NEWBORN (Changed  
at NODC) added to record.

(3)

## CORRECTIONS (CONT.) 77-0222

Sequence # 900, CD type S, station 0110760411

line (NEWBORN) in numeric fields. (NEWBORN)

removed. This record also inserted at end of TR0547 records, CD type S changed to 6, sequence # changed to 2522 and Animal is NEWBORN (Changed at NODC) added to record.

## TR0757

Sequence # 196, station # 0205760424

date corrected from 760524 to 760425

connections (CONT)

71-0222

(4)

TR#545

Sequence # 0004 station 0301760611

Time column 40 connected to 3.

Sequence # 0430 station 0508760612

0 removed from column 74

Sequence # 0505 station 0511760612

2 removed from column 74

Sequence # 0662 station 0601760616

2 removed from column 74

Sequence # 0774 station 0603760616

2 removed from column 74

Sequence # 1183 station 0705760615

1 removed from column 74

## CORRECTIONS (CONT.)

3 duplicate stations in TRØ547

0128760409

0129760409

0130760409

1 duplicate station in TRØ757

0215760425

NOTE: These 4 stations are not counted by NAPISCT (duplicates).

Thus the difference of 346 master records and 342 stations by NAPISCT.

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

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

026

Six distinct record types; Header (1), Environmental (2), Ice (3),  
Sighting (4), Group (5), and Text (6) 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 <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"/> 300 BPI</p> <p><input type="checkbox"/> _____</p>	
	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p>
	<p>13. LENGTH OF BYTES IN BITS</p>



# RECORD FORMAT DESCRIPTION

RECORD NAME Header (Marine Mammal Sighting 2)

1-19-77

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Starting Date-Time,					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Starting Latitude,					
Degrees	35	2	Bytes	I2	
Minutes	37	2	Bytes	I2	
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' or 'S'
Starting Longitude,					
Degrees	42	3	Bytes	I3	
Minutes	45	2	Bytes	I2	
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	'E' or 'W'
Ending Time,					
Hour	50	2	Bytes	I2	00-23
Minute	52	2	Bytes	I2	00-59
Ending Latitude,					
Degrees	54	2	Bytes	I2	
Minutes	56	2	Bytes	I2	
Seconds	58	2	Bytes	I2	
Hemisphere	60	1	Bytes	A1	'N' or 'S'

# RECORD FORMAT DESCRIPTION

3

RECORD NAME Header cont'd (Marine Mammal Sighting 2)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Ending Longitude,					
Degrees	61	3	Bytes	I3	
Minutes	64	2	Bytes	I2	
Seconds	66	2	Bytes	I2	
Hemisphere	68	1	Bytes	A1	'E' or 'W'
Elapsed Time,					
Hours	69	2	Bytes	I2	00 - 23
Minutes	71	2	Bytes	I2	00 - 59
Distance Along Track	73	5	Bytes	I5	Nautical Miles to tenths
Number of Observers	78	1	Bytes	I1	
Type of Leg Code	79	1	Bytes	A1	(Use File 026 Type of Leg Code)
Blank	80	1	Bytes	1X	

## RECORD FORMAT DESCRIPTION

RECORD NAME Environmental (Marine Mammal Sighting 2)

1-19-77

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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Platform Type Code	25	1	Bytes	A1	
Platform I.D. Code	26	3	Bytes	I3	Originator's internal code (Use File 027 Platform I.D. Code)
Platform Direction	29	3	Bytes	I3	Planned course of platform in whole degrees
Altitude	32	4	Bytes	I4	Whole meters
True Ground Speed	36	3	Bytes	I3	Whole knots
Primary Track Width	39	5	Bytes	I5	Nautical miles to hundredths
Secondary Track Width	44	5	Bytes	I5	Nautical miles to hundredths
Total Track Width	49	6	Bytes	I6	Nautical miles to hundredths
Total Area Surveyed	55	4	Bytes	I4	1° Track
Total Area Surveyed	59	4	Bytes	I4	2° Track
Blank	63	1	Bytes	1X	
Visibility Code	64	1	Bytes	A1	WMO Code 4300
Cloud Amount Code	65	1	Bytes	A1	WMO Code 2700
Air Temperature	66	3	Bytes	I3	Degrees Celsius

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN 27000 (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wind Direction	69	3	Bytes	I3	Whole degrees
Wind Speed	72	2	Bytes	I2	Whole knots
Blank	74	1	Bytes	1X	
Sea State Code	75	1	Bytes	A1	WMO Code 3700
Weather Code	76	2	Bytes	A2	WMO Code 4677
Collection Method Code	78	1	Bytes	A1	(Use File 027 Collection Method Code)
Blank	79	2	Bytes	2X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Ice (Marine Mammal Sighting, 2)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <u>Bytes</u> (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Flight/Station Number	11	10	Bytes	A10	
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
<u>Replicate 1</u>					
Time of Observation					
Hour	25	2	Bytes	I2	
Minute	27	2	Bytes	I2	
Ice Codes,					
Type Code	29	1	Bytes	A1	(use File 027 Type Code)
Octas of Thin Ice	30	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Thin Ice	31	1	Bytes	A1	(use File 027 Ice Characteristic Code)
Octas of Moderate Ice	32	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Moderate Ice	33	1	Bytes	A1	(use File 027 Ice Characteristic Code)
Octas of Heavy Ice	34	1	Bytes	A1	(use File 027 Coverage Code)
Characteristics of Heavy Ice	35	1	Bytes	A1	(use File 027 Ice Characteristic Code)
Deformation Code	36	1	Bytes	A1	(use File 027 Deformation Code)
Transect Width Code	37	1	Bytes	A1	(use File 027 Transect Width Code)
<u>Replicates 2, 3 and 4</u>	38	39	Bytes	3(2I2,9A1)	Repetition of above
Blank	77	4	Bytes	4X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Sighting (Marine Mammal Sighting 2)

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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Taxonomic Code	25	10	Bytes	5A2	
Subspecies Code	35	2	Bytes	A2	
Total Number of Individuals	37	5	Bytes	I5	1° Track
Confidence Code	42	1	Bytes	A1	(use File 027 Confidence Code)
Total Number of Individuals	43	5	Bytes	I5	2° Track
Confidence Code	48	1	Bytes	A1	(use File 027 Confidence Code)
Total Number of Individuals Sighted	49	5	Bytes	I5	1° and 2° Track
Confidence Code	54	1	Bytes	A1	(use File 027 Confidence Code)
Number of Pups	55	3	Bytes	I3	1° Track
Number of Pups	58	3	Bytes	I3	2° Track
Number of Groups	61	3	Bytes	I3	1° Track
Number of Groups	64	3	Bytes	I3	2° Track
Mammal Activity	67	2	Bytes	A2	(use File 027 Mammal Activity Code)
Text	69	4	Bytes	A4	Transport Mode
Total Number of Individuals Sighted	73	5	Bytes	I5	
Blank	78	3	Bytes	3X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Group (Marine Mammal Clicking 2)

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 '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Taxonomic Code	25	10	Bytes	5A2	
Subspecies Code	35	2	Bytes	A2	
Time,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Track Number	41	1	Bytes	I1	(use File 026 Track Number Code)
Group 1	42	2	Bytes	I2	Whole number
Group 2	44	2	Bytes	I2	Whole number
Group 3	46	2	Bytes	I2	Whole number
Group 4	48	2	Bytes	I2	Whole number
Group 5	50	2	Bytes	I2	Whole number
Group 6	52	2	Bytes	I2	Whole number
Group 7	54	2	Bytes	I2	Whole number
Group 8	56	2	Bytes	I2	Whole number
Group 9	58	2	Bytes	I2	Whole number
Group 10	60	2	Bytes	I2	Whole number
Group 11	62	2	Bytes	I2	Whole number
Group 12	64	3	Bytes	I3	Whole number
Group 13	67	3	Bytes	I3	Whole number

1. 10. 1971

1. 10. 1971

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Group 14	70	3	Bytes	I3	Whole number
Group 15	73	4	Bytes	I4	Whole number
Group 16	77	4	Bytes	I4	Whole number



# RECORD FORMAT DESCRIPTION

RECORD NAME Text (Marine Mammal Sighting 2)

1-15-77

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bit, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '026'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '6'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC Station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Text	25	56	Bytes	56A1	Any alphanumeric information

10/7/76

use for files

026

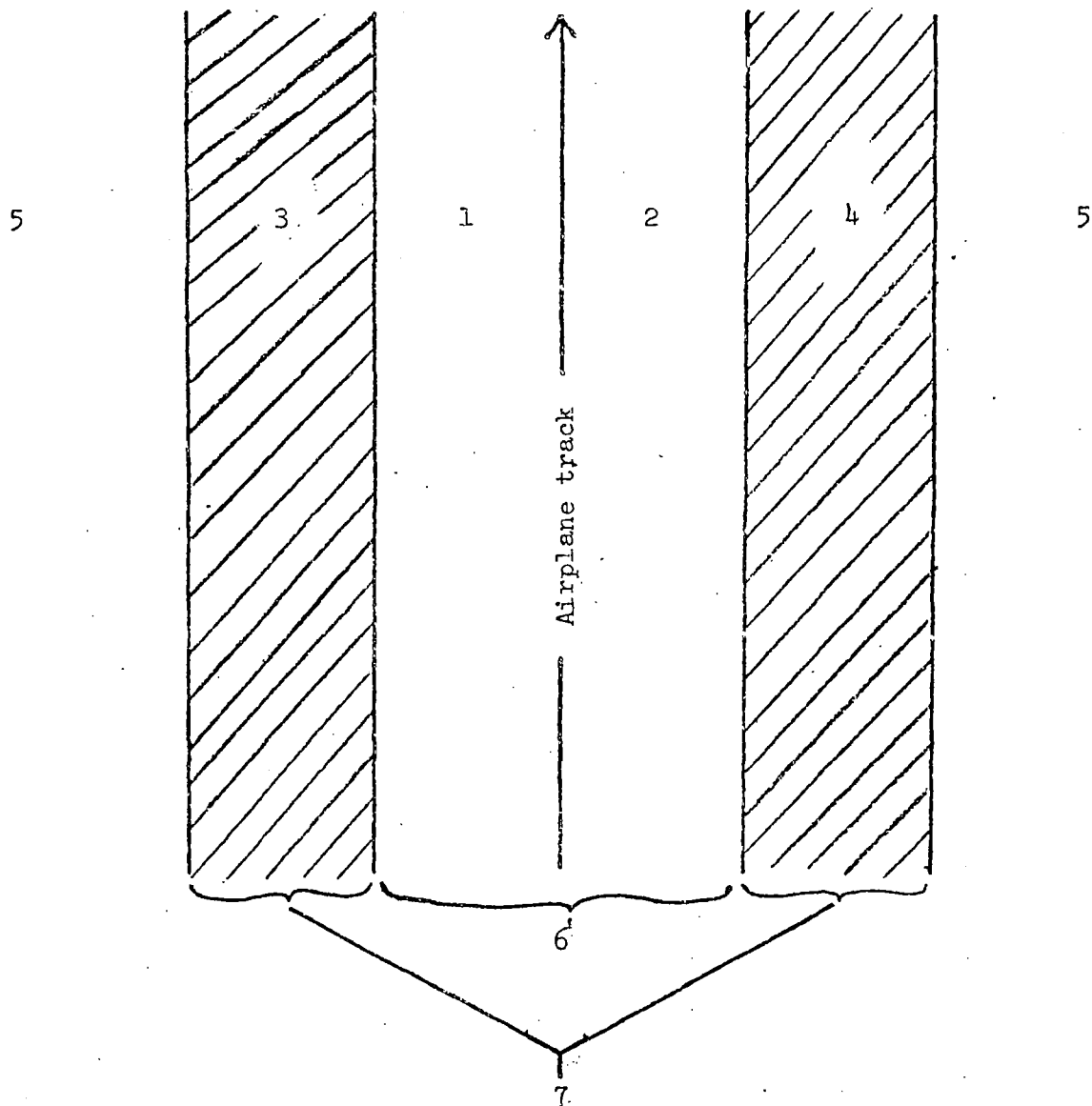
File 026 Type of Leg Code

- 1 = Random transect
- 2 = Deadhead
- 3 = General
- 4 = Systematic transect

10-7-76

File 026 Track Number Code

use for files  
026



- 1 = Area to the immediate left of the airplane track
- 2 = Area to the immediate right of the airplane track
- 3 = Area to the left of Track number 1
- 4 = Area to the left of Track number 2
- 5 = Area beyond Track number 3 and/or 4
- 6 = Combination of Track numbers 1 and 2
- 7 = Combination of Track numbers 3 and 4
- 8 = No track defined (random)

8/23/76

File 027 Platform I.D. Codes (Originator's Internal Code)

use for files

Ships

026

027

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  
071 = RV Alpha Helix  
072 = RV Resolution  
073 = RV Acona  
074 = RV Thomas G. Thompson  
075 = RV Tordenskjold  
076 = RV Moana Wave  
201 = New St. Joseph  
202 = Mark I  
204 = Trinity  
205 = Tacoma  
206 = Harmony  
207 = Morningstar  
208 = Lynn Ann  
209 = G.B. Reed  
301 = USCGC Polar Star

File 027

Platform I.D. Codes (Originator's Internal Code) Continued

302 = USCGC Confidence  
303 = USCGC Boutwell  
304 = USCGC Storis  
305 = USCGC Glacier  
998 = Miscellaneous - to handle single reports from one vessel which is not expected to report again. Vessel should be identified on comments card.

Aircraft

- 001 = OAS P-2V N48347
  - 002 = OAS Grumman Super Goose
  - 003 = NARL Twin Otter
  - 004 = Widgeon
  - 005 = Cessna 180
1. No codes assigned for remaining platform types.
  2. Recommend using 998 for all platform types to handle non-regular reporting platform. A comments card should identify the vessel if a 998 code is used.
  3. Investigators must clear any additional platform identification codes with EDS before applying them.

use for files

025

026

027

## File 027 Collection Method Code

Method of collection refers to how the number of animals recorded was determined.

- 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.

use for files

File 027 Ice Codes

025

026

027

Type Code

- 1 = Drifting ice
- 2 = Land fast or anchored ice
- 3 = Open water

Coverage Code

- 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)

Ice Characteristics Code

- 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.

Deformation Code

- 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

File 027 Ice Codes ContinuedTransect Width Code

- 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



3-31-76

use for files

File 027 Confidence Code

026

027

0 = No error

1 =  $\pm 1$

2 =  $\pm 2$

3 =  $\pm 5$

4 =  $\pm 10$

5 =  $\pm 25$

6 =  $\pm 50$

7 =  $\pm 100$

8 =  $\pm 1000$

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.

use for files

File 027 Mammal Activity Codes  
(Platform/Reliability)

026

027

The Activity Code describes the activity of the Platform and/or observers during the watch period. It is basically an index of reliability for data gathered by a given vessel at a given time.

- 01 = Top Quality Transect Work  
Watch effort, positions ( $\pm$  1NM) and species I.D. as reliable as possible.
- 02 = Transect Work - Good position ( $\pm$  1NM) and transit data. Species I.D. fair.
- 03 = Transect Work - Good position ( $\pm$  1NM) and transit data. Species I.D. poor.
- 04 = Transect Work - Times are reliable, positions accurate to  $\pm$  5 nautical miles. Species I.D. good.
- 05 = Transect Work - Times reliable, positions accurate to  $\pm$  5 nautical miles. Species I.D. fair.
- 06 = Transect Work - Times are reliable, positions accurate to  $\pm$  5 nautical miles. Species I.D. poor.
- 09 = Platform in transit, MMO aboard, transect data.
- 10 = Platform in transit, no MMO aboard, transect data.
- 11 = Platform in transit with MM observer aboard.
- 12 = Platform in transit with no MM observer 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.

3-31-76

Platform Type Code

use for files

1 - Research Ship	026
2 - Non-specialized ship	027
3 - Satellite	033
4 - Balloon	038
5 - Airplane	040
6 - Anchored buoy	100
7 - Drifting buoy	037
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)	

3-31-76

use for files

TABLE 27

## Visibility

WMO Code 4300 for recording visibility at surface

## Code

0	Less than 50 metres (less than 55 yards)	001
1	50-200 metres (approx. 55-220 yards)	002
2	200-500 metres (approx. 220-550 yards)	004
3	500-1,000 metres (approx. 550 yards-5/8 n.m.)	006
4	1- 2 km (approx. 5/8-1 n.m.)	022
5	2- 4 km (approx. 1- 2 n.m.)	026
6	4-10 km (approx. 2- 6 n.m.)	027
7	10-20 km (approx. 6-12 n.m.)	033
8	20-50 km (approx. 12-30 n.m.)	034
9	50 km or more (30 n.m. or more)	035
		040
		049
		057
		037

TABLE 24

## Present Weather

WMO Code 4677 for recording present weather

Code figure			
ww			
No meteors except photometeors	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
	03	Clouds generally forming or developing	
Haze, dust, sand or smoke	04	Visibility reduced by smoke, e. g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	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 dust-storm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the 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 observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of More or less continuous	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12		
	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	Precipitation within sight, reaching the ground or the 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 the time of observation
	19	Funnel cloud(s) **	

- \* The expression "at the station" refers to a land station or a ship.  
 \*\* Tornado cloud or waterspout.

use for files

026 037

027

030

033

034

035

040

057

TABLE 24 (Cont'd)

ww = 20 - 29 Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation

## Code figure

ww

20	Drizzle (not freezing) or snow grains	} not falling as shower(s)
21	Rain (not freezing)	
22	Snow	
23	Rain and snow or ice pellets, type (a)	
24	Freezing drizzle or freezing rain	
25	Shower(s) of rain	
26	Shower(s) of snow, or of rain and snow	
27	Shower(s) of hail*, or of rain and hail*	
28	Fog or ice fog	
29	Thunderstorm (with or without precipitation)	

ww = 30 - 39 Duststorm, sandstorm, drifting or blowing snow

ww

30	} Slight or moderate dust-storm or sandstorm	- has decreased during the preceding hour
31		- no appreciable change during the preceding hour
32		- has begun or has increased during the preceding hour
33	} Severe duststorm or sandstorm	- has decreased during the preceding hour
34		- no appreciable change during the preceding hour
35		- has begun or has increased during the preceding hour
36	Slight or moderate blowing snow	} generally low (below eye level)
37	Heavy drifting snow	
38	Slight or moderate blowing snow	} generally high (above eye level)
39	Heavy blowing snow	

ww = 40 - 49 Fog or ice fog at the time of observation

ww

40	Fog or ice fog at a distance at the 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	

\* Hail, ice pellets, type (b), snow pellets. French: grêle, grésil ou neige roulée.

TABLE 24 (Cont'd)

Code figure	
44	Fog or ice fog, sky visible
45	Fog or ice fog, sky invisible
46	Fog or ice fog, sky visible
47	Fog or ice fog, sky invisible
48	Fog, depositing rime, sky visible
49	Fog, depositing rime, sky invisible
<hr/>	
ww = 50 - 99 <i>Precipitation at the station at the time of observation</i>	
<hr/>	
ww = 50 - 59 Drizzle	
<hr/>	
ww	
50	Drizzle, not freezing, intermittent
51	Drizzle, not freezing, continuous
52	Drizzle, not freezing, intermittent
53	Drizzle, not freezing, continuous
54	Drizzle, not freezing, intermittent
55	Drizzle, not freezing, continuous
56	Drizzle, freezing, slight
57	Drizzle, freezing, moderate or heavy (dense)
58	Drizzle and rain, slight
59	Drizzle and rain, moderate or heavy
<hr/>	
ww = 60 - 69 Rain	
<hr/>	
ww	
60	Rain, not freezing, intermittent
61	Rain, not freezing, continuous
62	Rain, not freezing, intermittent
63	Rain, not freezing, continuous
64	Rain, not freezing, intermittent
65	Rain, not freezing, continuous
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
<hr/>	
ww = 70 - 79 Solid precipitation not in showers	
<hr/>	
ww	
70	Intermittent fall of snow flakes
71	Continuous fall of snow flakes
72	Intermittent fall of snow flakes
73	Continuous fall of snow flakes

TABLE 24 (Cont'd)

## Code figure

74	Intermittent fall of snow flakes	}	heavy at time of observation
75	Continuous fall of snow flakes		
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)		

---

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

---

## ww

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 or without rain or rain and snow mixed	}	-- slight
88			-- moderate or heavy
89	Shower(s) of hail*, with or without rain or rain and snow mixed, not associated with thunder	}	-- slight
90			-- moderate or heavy
91	Slight rain at time of observation	}	thunderstorm during the preceding hour but not at time of observation
92	Moderate or heavy rain at time of observation		
93	Slight snow, or rain and snow mixed or hail** at time of observation		
94	Moderate or heavy snow, or rain and snow mixed or hail** at time of observation		
95	Thunderstorm, slight or moderate, without hail**, but with rain and/or snow at time of observation	}	thunderstorm at time of observation
96	Thunderstorm, slight or moderate, with hail** at time of observation		
97	Thunderstorm, heavy, without hail**, but with rain and/or snow at time of observation		
98	Thunderstorm combined with dust-storm or sandstorm at time of observation		
99	Thunderstorm, heavy, with hail** at time of observation		

\* French: grêle.

\*\* Hail, ice pellets, type (b), snow pellets. For use only in conjunction with a code



use for files

TABLE 26

Cloud Amount

WMO Code 2700 for recording cloud amount

Code

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

001

002

004

006

022

027

030

033

034

049

057

023

026

040

037

4-26-76

use for files

022

023

027

030

033

034

035

057

026

040

057

037

TABLE 12

Sea State

WMO Code 3700 for Recording Sea State

Description	Height (†)		Code
	Feet*	Meters	
Calm-glassy	0	0	0
Calm-rippled	0 - $\frac{1}{3}$	0 - 0.1	1
Smooth-wavelet	$\frac{1}{3}$ - $1\frac{2}{3}$	0.1 - 0.5	2
Slight	$1\frac{2}{3}$ - 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.

# Marine Mammal Sighting 2

1-15-77

FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SE- QUENCE NUMBER	START DATE/TIME (GMT)					START LATITUDE				START LONGITUDE				END TIME (GMT)				END LATITUDE				END LONGITUDE				ELAPSED TIME		DISTANCE ALONG TRACK (NAUT MI TO 1/10)	TYPE OF OBSERVATION	BLANK		
					YR	MON	DAY	HR	MIN	DEG.	MIN	SEC	N	OR S	DEG.	MIN	SEC	N	OR S	HR	MIN	DEG.	MIN	SEC	N	OR S	DEG.	MIN	SEC	N	OR S				HR	MIN
FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SE- QUENCE NUMBER	PLAT- FORM TYPE	PLAT- FORM ID.	PLAT- FORM DIREC- TION	ALTI- TITUDE (DEG.)	TUR- BULE SPEED (KTS)	PRIMARY TRACK WIDTH (NAUT MI. TO 1/10)	SECONDARY TRACK WIDTH (NAUT MI. TO 1/10)	TOTAL TRACK WIDTH (NAUT MI. TO 1/10)	TOTAL AREA SURVEYED 1° TRACK	TOTAL AREA SURVEYED 2° TRACK	TOTAL AREA SURVEYED	BLANK	CLOUD VISIBILITY (%)	AIR TEMP- ERATURE (°C)	WIND DIREC- TION (DEG.)	WIND SPEED (KTS)	WAVE HEIGHT (FT)	WEATHER	COLLECTOR'S NAME	BLANK												
FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SE- QUENCE NUMBER	TIME OF OBSER- VATION		ICE CODES				TIME OF OBSER- VATION		ICE CODES				TIME OF OBSER- VATION		ICE CODES				TIME OF OBSER- VATION		ICE CODES				BLANK							
					HR	MIN	THIN ICE	MOD. ICE	HEAVY ICE	DEFORM- ATION	TRANS- WIDTH	HR	MIN	THIN ICE	MOD. ICE	HEAVY ICE	DEFORM- ATION	TRANS- WIDTH	HR	MIN	THIN ICE	MOD. ICE	HEAVY ICE	DEFORM- ATION	TRANS- WIDTH	HR	MIN	THIN ICE	MOD. ICE	HEAVY ICE	DEFORM- ATION	TRANS- WIDTH				

FORM 100-10-1-77

# Marine Mammal Sighting 2

1-13-77

FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SEQUENCE NUMBER	TAXONOMIC CODE	SUBSPECIES CODE	TOTAL NUMBER OF INDIVIDUALS 1° TRACK	CONFIDENCE	TOTAL NUMBER OF INDIVIDUALS 2° TRACK	CONFIDENCE	TOTAL NUMBER OF INDIVIDUALS SIGHTED 1° AND 2° TRACK	CONFIDENCE	NUMBER OF PUPS 1° TRACK	NUMBER OF PUPS 2° TRACK	NUMBER OF GROUPS 1° TRACK	NUMBER OF GROUPS 2° TRACK	MAMMAL ACTIVITY	TEXT	TOTAL NUMBER OF INDIVIDUALS SIGHTED	BLANK				
FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SEQUENCE NUMBER	TAXONOMIC CODE	SUBSPECIES CODE	TIME HR MIN	TRACK NUMBER	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7	GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14	GROUP 15	GROUP 16
FILE TYPE	FILE ID	RECORD TYPE	FLIGHT/STATION NUMBER	SEQUENCE NUMBER	TEXT																			

PUNCH CARD TRANSMIT

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7700222	F026	TR0548	0081	31W5	3191	1976/06/10	NULL	302945
7700222	F026	TR0549	0081	31W5	3191	1976/01/01	NULL	302946
7700222	F026	TR0550	0081	31W5	3191	1975/06/10	NULL	302947
7700222	F026	TR0757	0081	31W5	32HP	1976/03/27	NULL	302948

(4 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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7700222	F026	TR0548	3191	60	1380	76/06/10	76/06/18
7700222	F026	TR0549	3191	20	276	76/01/01	76/06/13
7700222	F026	TR0550	3191	34	1016	75/06/10	75/06/18
7700222	F026	TR0757	32HP	41	459	76/03/27	76/05/01

(4 rows affected)