

DATA DOCUMENTATION FORM

TR2838

NOAA FORM 24-13
(5-72)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-R2551

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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 250/196		File ID# 1SR376	
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	
SURVEYOR Leg 1		ship	
6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
PLATFORM OPERATOR		FROM: MO/DAY/YR TO: MO/DAY/YR	
U.S. U.S.		031476 040276	
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		Bering Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3 (Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

POINT REYES BIRD OBSERVATORY

Mesa Road, Bolinas, California 94924

Mailing address: 4990 Shoreline Highway, Sausalito Beach, CA 94970

9 February 1979

Jim Audet
NOAA/EDS/NODC
2001 Wisconsin Ave.
Washington, D.C. 20235

Dear Jim:

I have enclosed the ice information for 2GL976 for stations 1E014 to 1E035. As you may recall the check programs found major errors with these stations. We have enclosed field forms with the ice information. Please note that: c p t f r t m stands for

	col (N)	(OUT)
cover	16	22
pattern	40 —	41 —
type	17	23
form	18	24
relief	19	25
thickness	20	26
melt	21	27

File Type 033
Record Type '3'

16/40/17/18/19/20/21/ 22/41/23/24/25/26/27

I realize some changes have been made in ice codes since these stations were done.

Let me know if you have any questions.

Sincerely,

George

George J. Divoky
Research Associate

GJD:jb
Encl.

2/26

*Elaine - I marked the columns
for each code*

*This is for 78-0157
TR 2841*

RD FORMAT DESCRIPTION

2/26/76

RECORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

CORD NAME Data Ship and Aircraft Census (Continued)

2/20/76

1. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

RECORD FORMAT DESCRIPTION

RECORD NAME: Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME TEXT SHIP AND AIRCRAFT CENSUS

15. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (col., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
Visible Ice					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO-4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME ICE, SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

2/20/76

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (O.R., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility :	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to nearest Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

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		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6','7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

15. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	EX	
Distance made good	76	4	Bytes	I4	km to tenths

REF 3D FORMAT DESCRIPTION

2/20/76

CORD NAME Environmental Ship and Aircraft Census

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

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 ;
THE METHOD OF IDENTIFYING EACH RECORD TYPE

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3),
Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO LABEL</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>83/50</p>

RECORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> <div>Last two digits of year</div> <div>Start- ing Date/ Time</div> <div>GMT</div> </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude, Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

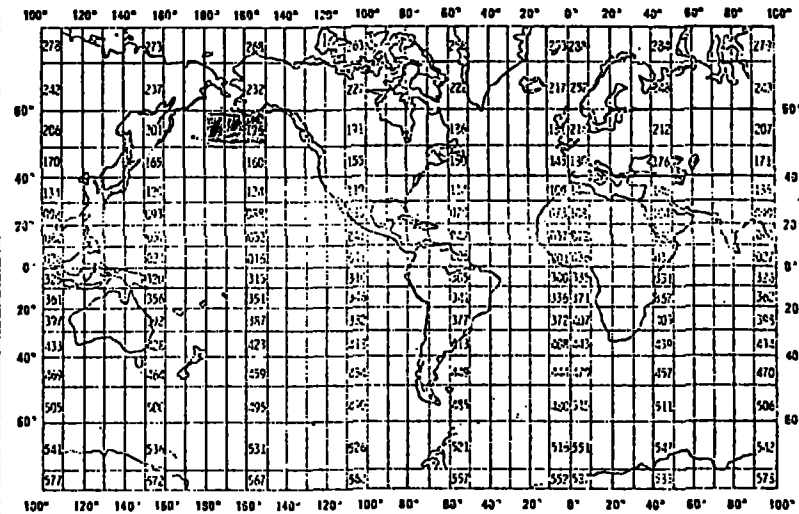
DATA DOCUMENTATION FORM

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-K2651

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Alaska Department of Fish and Game 1300 College Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 1SR476	
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	
SURVEYOR Leg II		ship	
6. PLATFORM AND OPERATOR		7. DATES	
NATIONALITY(IES)		FROM: MO/DAY/YR TO: MO/DAY/YR	
U.S.		U.S.	
041276		050176	
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		Bering Sea	
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)			
George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees	Ship's log		
	WMO code 0885 and 0877			NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3(Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3),
Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO LABEL</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p> <p>13. LENGTH OF BYTES IN BITS</p>	

CORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> Last two digits of year } Start- ing Date/ Time GMT </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude, Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

2/20/76

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

4/20/12

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

RD FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0.8, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility :	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

RECORD NAME ICE, SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
<u>Visible Ice</u>					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (0.4- bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

2/20/76

RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

15. 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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD FORMAT DESCRIPTION

2/20/70

ORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individ- uals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from ob- servation plat- form to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Associ- ation	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

CORD NAME Data Ship and Aircraft Census (Continued)

2/20/76

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles.
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left.
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes.

ACCESSION
NUMBER

78-0157

DATA DOCUMENTATION FORM

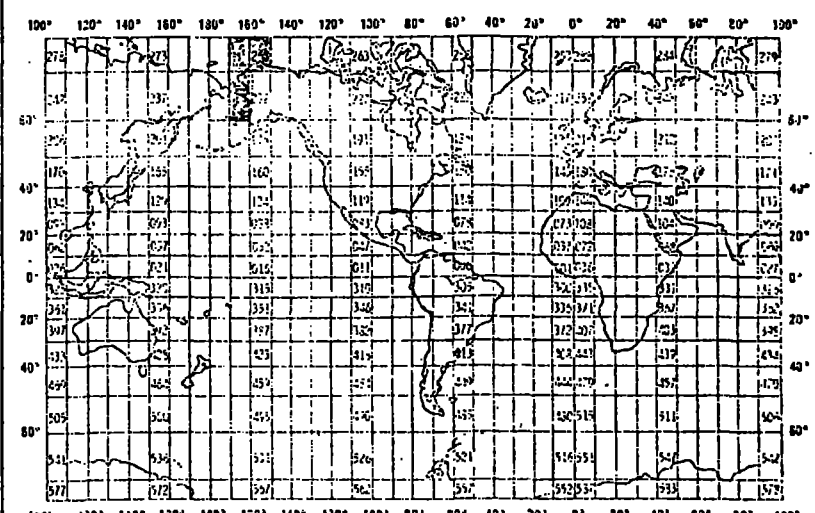
TR 2840

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Alaska Department of Fish and Game 1300 College Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 2GLA76	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
USCG GLACIER WAGB-4	ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		U.S. U.S.	100376 101576
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
		Chukchi Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL 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 TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3(Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect.
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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
THE METHOD OF IDENTIFYING EACH RECORD TYPE

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3), Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO Label</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p>	
<p>13. LENGTH OF BYTES IN BITS</p>	

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	Starting Position
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	
Longitude, Degrees	23	3	Bytes	I3	'E' or 'W'
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31	2	Bytes	I2	Last two digits of year } Start- ing Date/ Time GMT
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude, Degrees	41	2	Bytes	I2	Ending Position
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	
Hemisphere	47	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

REGORD NAME Ice (continued) Ship and Aircraft Census

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		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

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RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD. FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I : Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

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4. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time,	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

REF RD FORMAT DESCRIPTION

CORD NAME Environmental

Ship and Aircraft Census

(2/20/76

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

RD FORMAT DESCRIPTION

2/20/76

RD NAME Data Ship and Aircraft Census

2. 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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individ- uals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from ob- servation plat- form to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Associ- ation	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME Data Ship and Aircraft Census (Continued)

FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Economic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

DATA DOCUMENTATION FORM

TR 2841

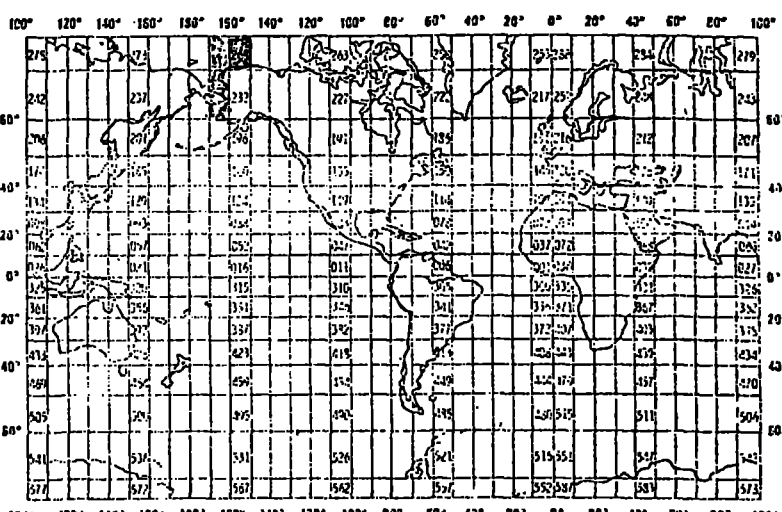
NOAA FORM 24-13

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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 2GL976 (4)	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
USCG GLACIER WAGB-4	ship	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		U.S. U.S.	092076 100276
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Chukchi Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL 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 TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point.
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3(Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3), Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. 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 checked="" type="checkbox"/> NONE
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) NO LABEL
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 83/50	
13. LENGTH OF BYTES IN BITS	

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> <div>Last two digits of year</div> <div>Start- ing Date/ Time</div> <div>GMT</div> </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude,					
Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

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14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., lbs, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

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CORD NAME Environmental

Ship and Aircraft Census

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

RECORD NAME ICE, SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
Visible Ice					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 = irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued)

Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

2/20/76

RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

15. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (calc. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

DATA DOCUMENTATION FORM

78-0157

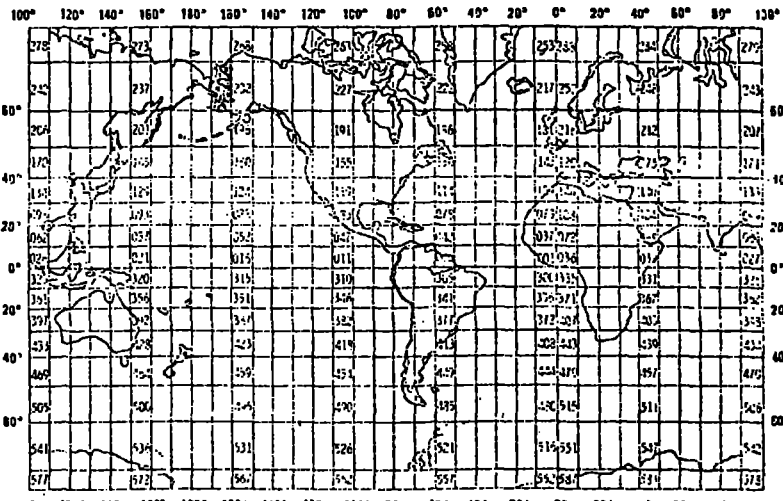
(4-72)

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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 1DI976 2DI976 (3)	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
DISCOVERER	ship	PLATFORM OPERATOR FROM: MO/DAY/YR TO: MO/DAY/YR	
		U.S. U.S.	091076 092576
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Chukchi Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3 (Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

RD FORMAT DESCRIPTION

2/26/74

RECORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME Data Ship and Aircraft Census (Continued)

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

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 2. METHOD OF IDENTIFYING EACH RECORD TYPE

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3), Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. 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"/> NONE
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) <p style="text-align: center;">No. Label</p>
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 <p style="text-align: center;">83/50</p>	
13. LENGTH OF BYTES IN BITS	

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> Last two digits of year </div> <div> Start- ing Date/ Time </div> <div> GMT </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	0-59
Latitude, Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

2/20/76

RECORD NAME Location Continued Ship and Aircraft Census

4. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Ob- server's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Flank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

REF ID FORMAT DESCRIPTION

(2/20/76

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

RD FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (0-R, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to nearest Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I Ice Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (o.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

2/20/76

RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (Col., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD FORMAT DESCRIPTION

2/26/76

RECORD NAME Data Ship and Aircraft Census

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (C.A., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME Data Ship and Aircraft Census (Continued)

5. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (i.e., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

DATA DOCUMENTATION FORM

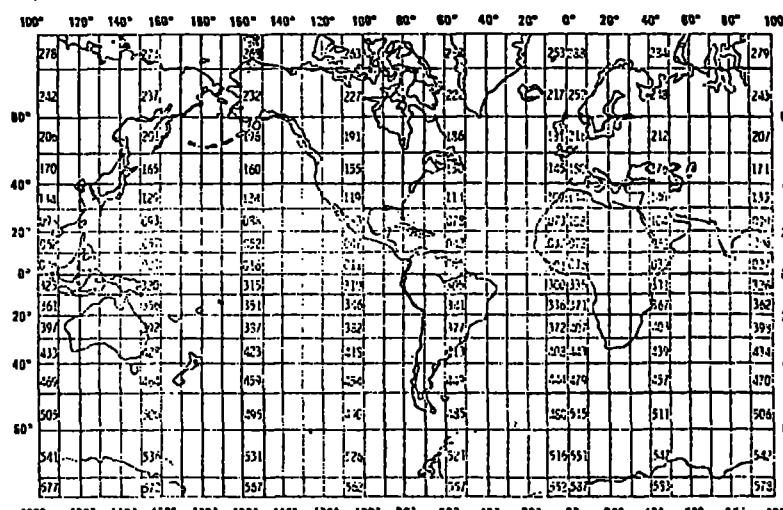
TR2843

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Alaska Department of Fish and Game 1300 College Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 2GL876	
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	
USCG GLACIER WAGB-4		ship	
6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
PLATFORM OPERATOR		FROM: MO/DAY/YR TO: MO/DAY/YR	
U.S. U.S.		080676 090376	
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		Chukchi and Beaufort Seas 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)			
George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees	Ship's log		
	WMO code 0885 and 0877			NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3(Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3), Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523

NAME AND PHONE NUMBER

ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO LABEL</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p>	
<p>13. LENGTH OF BYTES IN BITS</p>	

WORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (c.f., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	Last two digits of year } Starting Date/Time GMT
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude,					
Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

2/20/74

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., 1111, 1111)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

REF 2D FORMAT DESCRIPTION

2/20/76

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

RD FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

RECORD NAME ICE, SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code;A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
Visible Ice					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO-4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

12/25/76

RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

5. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (C.B., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD FORMAT DESCRIPTION

2/26/76

RECORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

CORD NAME Data Ship and Aircraft Census (Continued)

2/20/76

9. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

DATA DOCUMENTATION FORM

TR2844

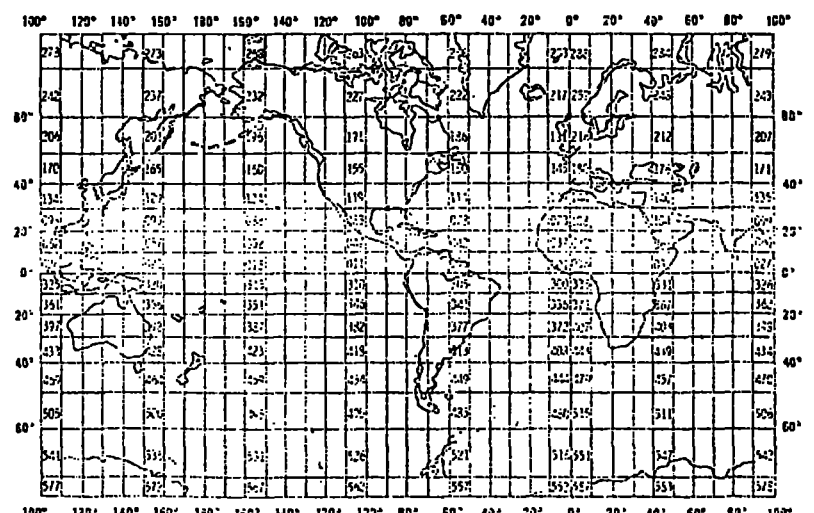
NOAA FORM 24-13

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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 2BI776	
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	
BURTON ISLAND		ship	
6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
PLATFORM OPERATOR		FROM: MO/DAY/YR TO: MO/DAY/YR	
U.S. U.S.		072276 072876	
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Chukchi Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL 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 TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

SHIP

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 longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3 (Ice)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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
THE METHOD OF IDENTIFYING EACH RECORD TYPE

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3),
Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> none</p>
<p>7. PARITY</p> <p><input checked="" 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>No Label</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> <div>Last two digits of year</div> <div>Start- ing Date/ Time</div> <div>GMT</div> </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude, Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

2/20/76

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., 11b, 1byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	3X	
Distance made good	76	4	Bytes	I4	km to tenths

2

REC 3D FORMAT DESCRIPTION

2/20/76

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Environmental Continued Ship and Aircraft Census

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0-65, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (o.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6','7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

RECORD NAME ICE SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 5600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 5600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
<u>Visible Ice</u>					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME: Ice, Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18 17	1	Bytes	A1	WMO 3763
Form Code	19 18	1	Bytes	A1	WMO 1147
Relief Code	20 19	1	Bytes	A1	WMO 3962
Thickness Code	21 20	1	Bytes	A1	WMO 4006
Melt Code	22 21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23 22	1	Bytes	A1	WMO 0547
Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME TEXT SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., 11b, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

2/20/76

CORD.NAME Data Ship and Aircraft Census (Continued)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (i.e., Bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left.
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

RD FORMAT DESCRIPTION

2/20/76

RECORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

ACCESSION
NUMBER

01219
78-0157

DATA DOCUMENTATION FORM

TR 2845

NOAA FORM 24-13
(5-72)

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

FORM APPROVED
O.M.B. No. 41-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			
George J. Divoky Point Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, California 94970 (415) 862-1221			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R. U. # 2845 196		File ID# 2GL875	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
GLACIER	SHIP	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		US US	7/30/75 8/27/75
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Beaufort Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, Ca 94970 (415) 862-1221			

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3), Text (Type 4), and Data (Type 5) 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 Michael Crane (907) 279-4523

ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE

☐ BCD☐ BINARY☐ ASCII☒ EBCDIC☐ _____6. NUMBER OF TRACKS
(CHANNELS)☐ SEVEN☒ NINE☐ _____

7. PARITY

☒ ODD☐ EVEN

8. DENSITY

☐ 200 BPI☒ 1600 BPI☐ 556 BPI☐ 800 BPI☐ _____9. LENGTH OF INTER-
RECORD GAP (IF KNOWN)☐ 3/4 INCH☐ _____

10. END OF FILE MARK

☐ OCTAL 17☐ NONE11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
OF DATA TYPE, VOLUME NUMBER)

NO LABEL

12. PHYSICAL BLOCK LENGTH IN BYTES

83/50

13. LENGTH OF BYTES IN BITS

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 Longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instruments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0877	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3(Icc)	Appropriate. WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

ORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> <div>Last two digits of year</div> <div>Start- ing Date/ Time</div> <div>GMT</div> </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude, Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., 1 km, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Ob- server's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	73	3	Bytes	I3	
Distance made good	76	4	Bytes	I4	km to tenths

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling :
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Foral - Ule scale

ORD FORMAT DESCRIPTION

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RECORD NAME Environmental Continued Ship and Aircraft Census

13. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME ICE SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
<u>Visible Ice</u>					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

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RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (C-2, 4 bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RECORD FORMAT DESCRIPTION

RECORD NAME 78-0157 OCSEAP TR2F38-2846

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER UNITS		17. ATTRIBUTES	18. USE AND MEANING
File 033					<p>(1) ALL CHANGES SHOWN ON ENCLOSED NSD CHECKS & TAXONOMIC LISTINGS HAVE BEEN MADE</p> <p>(2) CHANGES STATED IN LETTER DATED 9-02-79 WERE MADE.</p> <p>(3) HEMISPHERES (N+W) WERE put in Record Type 1 where MISSING.</p> <p>(4) ^{TAX.} CODES WERE CONVERTED FROM ALASKAN TO NDDC.</p>

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO: 78-0157 TR2838-2846 F(033)

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	B/KSIZE	RECFM	REMARKS
ORIGINATOR	MAT 60	NL	83	4150	FB	DSN=TR3
DUPLICATE	004397	NL	83	4565	FB	DSN=0473
REFORMATTED						
FIRST USER						
FINAL USER	010763	SL DSN=7R2838	83	4150	FB	
BKUP USER	011375	SL	83	4150	FB	DSN=7R2838

DATA DOCUMENTATION FORM

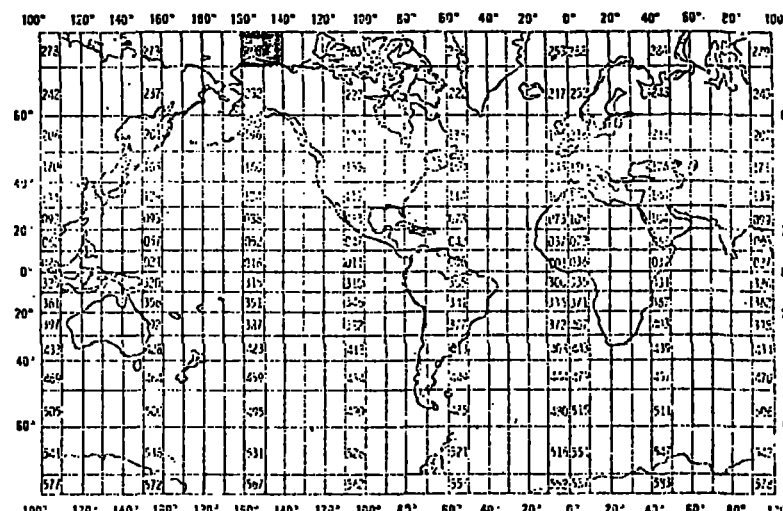
TR 2846

DDF A:2:04
NOAA FORM 24-13U.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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. #374 196		File ID# 3AL876 (9)	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R.V. Alumiac LWT#2	light weight tug	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		US US	081976 083176
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
		Beaufort Sea GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL 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 TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

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 longitude	Deg. Min. Sec.	Estimation from nautical charts (1: 50,615) or USGS Topo maps (1:63,360)	Accuracy variable, depending on landmarks, generally within ± 0.2 km	NA
Speed made good	Whole knots	Estimation from nautical charts (1: 50,615) or USGS Topo maps (1:63,360)	NA	
Course made good	Tens of degrees	Estimation from nautical charts (1: 50,615) or USGS Topo maps (1:63,360)		
Height above sea	km to tenths	Estimation from nautical charts (1: 50,615) or USGS Topo maps (1:63,360)		
Dry bulb temp.	$^{\circ}\text{C}$ to tenths	Inexpensive thermometer gave measurements about twice per day. Interpolation and dead reckoning at other times.	Precision of dead reckoning to within $\pm 2^{\circ}\text{C}$	NA
Wind speed	Knots	Inexpensive windmeter or estimation	NA	
Sea state	WMO code 2700	Visual estimation		
Swell height	Meters to tenths	Visual estimation		
Weather	WMO code 4677	Visual estimation		
Cloud type	WMO code 0500	Visual estimation		
Cloud amount	WMO code 2700	Visual estimation		Averaging of parameter over period of transect
Visibility	WMO code 4300	Visual estimation		
Parameters of Record Type 3(Ice)	USFWS OBS-CE	Visual observation		
Taxonomic code	Code USFWS OBS-CE			NA

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RECORD NAME Location Continued Ship and Aircraft Census

15. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Plank	73	3	Bytes	I3	
Distance made good	76	4	Bytes	I4	km to tenths

(2/20/76)

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Forel - Ule scale

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3),
Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO LABEL</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p>	
<p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>	

ORD FORMAT DESCRIPTION

2/26/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	Starting Position 'N' or 'S'
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	
Longitude, Degrees	23	3	Bytes	I3	'E' or 'W'
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31	2	Bytes	I2	Last two digits of year } Start- ing Date/ Time GMT
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	0-59
Latitude, Degrees	41	2	Bytes	I2	Ending Position 'N' or 'S'
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	
Hemisphere	47	1	Bytes	A1	

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RECORD NAME Environmental Continued Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility :	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to nearest Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME I Ice Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
✓ Ice Pattern	17	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	18	1	Bytes	A1	WMO 3763
Form Code	19	1	Bytes	A1	WMO 1147
Relief Code	20	1	Bytes	A1	WMO 3962
Thickness Code	21	1	Bytes	A1	WMO 4006
Melt Code	22	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	23	1	Bytes	A1	WMO 0547
? Pattern Code	24	1	Bytes	A1	1 = regular, 2 = irregular
Type Code	25	1	Bytes	A1	WMO 3763
Form Code	26	1	Bytes	A1	WMO 1147
Relief Code	27	1	Bytes	A1	WMO 3962
Thickness Code	28	1	Bytes	A1	WMO 4006
Melt Code	29	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	30	1	Bytes	A1	WMO 4552 -add to code: A= area of extensive open water
Direction Code	31	1	Bytes	A1	WMO 0739 -used only when 30 is coded
Distance Code	32	1	Bytes	A1	Wmo 4300 -used only when 30 is coded

RECORD FORMAT DESCRIPTION

RECORD NAME ICE SHIP AND AIRCRAFT CENSUS

14. FIELD NAME	15. POSITION FROM -1. MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

RECORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
<u>Visible Ice</u>					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

RECORD NAME Ice (continued) Ship and Aircraft Census

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN bytes (0.8, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Lead or Polynya Width Code	33	1	Bytes	A1	WMO 4300 (used only if '6', '7', or '8' in column 30)
<u>Visible Ice</u>					
Description Code	34	1	Bytes	A1	WMO 1147
Coverage Code	35	1	Bytes	A1	WMO 0547 (used only if column 34 is coded)
Direction Code	36	1	Bytes	A1	WMO 0739 (used only if column 34 is coded)
Distance Code	37	1	Bytes	A1	WMO 3600
Ship in Lead or Polynya Code	38	1	Bytes	A1	1=lead, 2=polynya, 3=open water of indeterminable type
Width of Lead or Polynya Code	39	1		A1	WMO 4300 (used only if 38 coded)
Distance of ship from edge Code	40	1	Bytes	A1	WMO 4322 (used only if 38 coded)
<u>Miscellaneous</u>					
Arctic Cod Observed	41	1	Bytes	A1	Use collection code
Excess sediment	42	1	Bytes	A1	Use collection code
Ice Algae Layer	43	1	Bytes	A1	Use collection code
Mammal Trace Code	44	1	Bytes	A1	Use Mammal trace code
Other Features	45	1	Bytes	A1	Use mammal trace code
Ice not Codable	46	41	Bytes	41X	See Text
Time of Ice	47	1	Bytes	A1	minutes in tens
Time of Ice	48	1	Bytes	A1	minutes in ones

RECORD FORMAT DESCRIPTION

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RECORD NAME TEXT SHIP AND AIRCRAFT CENSUS

1. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD FORMAT DESCRIPTION

2/20/76

RECORD NAME Data Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individuals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

CORD NAME Data Ship and Aircraft Census (Continued)

2/20/76

1. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., Bits, Bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc- Code	60	1	Bytes	A1	
Taxonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left.
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes.

DATE:

DOF A:2:04

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 7800157

- 1) File Type: F033
- 2) Project Ident.: OCSEAP
- 3) Track Nos TR 2843

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

DATA SET FILE SHEET

ASSIGNED FOR/TRACK : 7800151/TR2943

Step	Completion Date/Init.		Tape # or VSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #	7/29/81	JG	DV2NDC	1	3320	83	9684
QUAD1/SCAN TAPE #	7/29/81	JG	7729	1	3320	83	8684
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHK							
FIRST USER TAPE #							
WORK DISK FILE							
FINAL USER TAPE #							
FINAL MULCHK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE OR DISK ASSIGNMENT SHEET

(MRL) 11/6/78

(Rev. 11/80)

ACCESSION/TRACK NO.: 7800157/TR2843

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	DV2NDC	NL	83	3320	FB		8684
DUPLICATE	7728	NL	83	3320	FB		8684
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE							

FILE TYPE 033 - MARINE BIRD SIGHTINGS, SHIP/AIRCRAFT - 1/18/78 VERSION

THIS FORMAT IS DESIGNED TO SUPPORT INVESTIGATIONS CONCERNING BIOLOGICAL POPULATIONS THAT WOULD BE SUBJECT TO IMPACT FROM PETROLEUM DEVELOPMENT. DATA CAN BE REPORTED FOR DERIVING SEASONAL DENSITY DISTRIBUTIONS, MIGRATORY ROUTES AND BREEDING LOCALES FOR SELECTED MARINE BIRD SPECIES. THIS FORMAT IS STRUCTURED TO REPORT SHIP AND AIRCRAFT OBSERVATIONS ALONG SPECIFIC TRANSECTS.

THE FORMAT CONSISTS OF FIVE RECORDS FOR REPORTING BEGINNING AND END POSITION OF TRANSECT, DATE AND ELAPSED TIME, SPEED AND COURSE, PLATFORM AND SURVEY OPERATING INFORMATION. DETAILED ENVIRONMENTAL INFORMATION INCLUDES METEOROLOGICAL, SEA SURFACE AND WATER PROPERTIES, DISTANCES TO SHORELINE AND SHELF BREAK, ICE CHARACTERISTICS WITHIN AND OUTSIDE EACH TRANSECT, OIL AND DEBRIS NEAR EACH STATION AND HABITAT DESCRIPTIONS. SPECIES DATA INCLUDES AGE, SEX, COLOR, PLUMAGE, NUMBER OF INDIVIDUALS, DIRECTION OF FLIGHT, ACTIVITY, FOOD ASSOCIATION AND LINKAGE BETWEEN SPECIES AND OTHER DATA RELEVANT TO MARINE BIRD OBSERVATIONS FROM SHIP OR AIRCRAFT. TAXONOMIC CODE FIELDS FOR BOTH PREY AND PREDATOR ARE INCLUDED. A TEXT RECORD ALSO IS AVAILABLE.

ALL RECORDS IN THIS FORMAT ARE 83 COLUMNS IN LENGTH. THIS FILE IS SORTED BY STATION NUMBER, RECORD TYPE AND SEQUENCE NUMBER TO OBTAIN THE PROPER SEQUENCE OF RECORDS.

PARAMETER	DESCRIPTION	SC
LOCATION RECORD	ALWAYS '1'	10
STATION NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED IN RECORDS 2,3,4 AND 5	11
STARTING LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	16
STARTING LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	23
STARTING DATE (GMT)	YYMMDD	31
STARTING TIME (GMT)	XXXX (HOURS AND MINUTES)	37
ENDING LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	41
ENDING LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	48
ELAPSED TIME	XX (MINUTES)	56
TIME ZONE	TWO-DIGIT FIELD PRECEDED BY + OR - SIGN TO INDICATE GEOGRAPHIC TIME ZONE FOR BENCHMARK	58
SPEED MADE GOOD	XXX (WHOLE KNOTS)	61
COURSE MADE GOOD	XX - TENS OF DEGREES (TOWARD)	64
HEIGHT ABOVE SEA SURFACE OF OBSERVER'S EYES	XXX (WHOLE METERS)	66
PLATFORM TYPE	ONE-CHARACTER CODE - USE CODE 0100	69
SAMPLING TECHNIQUE	ONE-CHARACTER CODE - USE CODE 0046	70
SHIP ACTIVITY	ONE-CHARACTER CODE - USE CODE 0102	71
PHOTO(S) TAKEN	ONE-CHARACTER CODE - USE CODE 0095	72
WIDTH OF TRANSECT	ONE-CHARACTER CODE - USE CODE 0060	73
ANGLE OF VIEW	ONE-CHARACTER CODE - USE CODE 0113	74
OBSERVATION CONDITIONS	ONE-CHARACTER CODE - USE CODE 0041	75
DISTANCE MADE GOOD	XXXX (KILOMETERS TO TENTHS)	76
WATCH TYPE	ONE-CHARACTER CODE - USE CODE 0152	80
TRANSECT WIDTH	XXX (WHOLE METERS)	81
ENVIRONMENTAL RECORD	ALWAYS '2'	10
STATION NUMBER	SEE RECORD '1'	11
DEPTH TO BOTTOM	XXXX (WHOLE METERS)	16
DEPTH OF THERMOCLINE	XXX (WHOLE METERS)	20
SURFACE TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	23
SURFACE SALINITY	XXX - PARTS PER THOUSAND TO TENTHS	27
DRY BULB TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	30
WET BULB TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	34
RELATIVE HUMIDITY	XX - PERCENT	38
BAROMETRIC PRESSURE	XXXX (MILLIBARS TO TENTHS)	40
BAROMETRIC TREND	ONE-CHARACTER CODE - USE CODE 0186	44

WIND DIRECTION	TWO-DIGIT CODE - USE CODE 0110 - DIRECTION FROM	45
WIND SPEED	XX (WHOLE KNOTS)	47
SEA STATE	ONE-CHARACTER CODE - USE CODE 0109	49
SWELL DIRECTION	TWO-DIGIT CODE - USE CODE 0110 - DIRECTION FROM	50
SWELL HEIGHT	XXX (METERS TO TENTHS)	52
WEATHER	TWO-CHARACTER CODE - USE CODE 0159	55
CLOUD TYPE	ONE-CHARACTER CODE - USE CODE 0053	57
CLOUD AMOUNT	ONE-CHARACTER CODE - USE CODE 0105	58
WATER COLOR	TWO-CHARACTER CODE - USE CODE 0051	59
VISIBILITY	ONE-CHARACTER CODE - USE CODE 0157	61
SUN DIRECTION	ONE-CHARACTER CODE - USE CODE 0096 - DIRECTION FROM	62
GLARE INTENSITY	ONE-CHARACTER CODE - USE CODE 0035	63
GLARE AREA	ONE-CHARACTER CODE - USE CODE 0034	64
LIGHT LEVEL	XXX - EXPRESSED IN FOOT-CANDLES	65
MOON PHASE	ONE-CHARACTER CODE - USE CODE 0040	68
TIDE HEIGHT	ONE-CHARACTER CODE - USE CODE 0049	69
RISING OR FALLING TIDE	ONE-CHARACTER CODE - USE CODE 0187	70
DISTANCE TO NEAREST SHORELINE	XXXX (SQ NAUTICAL MILES)	71
DISTANCE TO SHELF BREAK	XXX (SQ NAUTICAL MILES)	75
SECCHI DEPTH	XX (WHOLE METERS)	78
DEBRIS	ONE-CHARACTER CODE FOR DEBRIS ENCOUNTERED BUT NOT BIRD ASSOCIATED - USE CODE 0116	80
BLANKS		81

ICE RECORD	ALWAYS '3	10
STATION NUMBER	SEE RECORD '1'	11
ICE IN TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	16
ICE IN TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	17
ICE IN TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	18
ICE IN TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	19
ICE IN TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	20
ICE IN TRANSECT MELT	ONE-CHARACTER CODE - USE CODE 0058	21
ICE OUTSIDE TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	22
ICE OUTSIDE TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	23
ICE OUTSIDE TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	24

ICE OUTSIDE TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	25
ICE OUTSIDE TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	26
ICE OUTSIDE TRANSECT MELT	ONE-CHARACTER CODE - USE CODE 0058	27
VISIBLE OPEN WATER TYPE OPENING	ONE-CHARACTER CODE USED WHEN AREA OF OPEN WATER IS VISIBLE IN DISTANCE - USE CCODE 0158	28
VISIBLE OPEN WATER DIRECTION	ONE-CHARACTER CODE USED ONLY IF COLUMN 28 CODED - USE CODE 0056	29
DISTANCE TO OPEN WATER	ONE-CHARACTER CODE USED ONLY IF COLUMN 28 CODED - USE CODE 0106	30
VISIBLE OPEN WATER LEAD OR POLYNIA	ONE-CHARACTER CODE USED ONLY IF '6', '7' OR '8' IN COLUMN 28 CODED - USE CODE 0157	31
VISIBLE ICE DESCRIPTION	ONE-CHARACTER CODE USED ONLY IF '9' IN COLUMN 28 CODED - USE CODE 0055	32
VISIBLE ICE DIRECTION	ONE-CHARACTER CODE USED ONLY IF COLUMN 32 CODED - USE CODE 0056	33
DISTANCE TO VISIBLE ICE	SAME AS ABOVE - USE CODE 0106	34
ARCTIC COD OBSERVED	ONE-CHARACTER CODE - USE CODE 0095	35
EXCESS SEDIMENT	ONE-CHARACTER CODE - USE CODE 0095	36
ICE ALGAE LAYER	ONE-CHARACTER CODE - USE CODE 0095	37
MAMMAL TRACE	ONE-CHARACTER CODE - USE CODE 0036	38
OTHER FEATURES	ONE-CHARACTER CODE - USE CODE 0036	39
ICE IN TRANSECT PATTERN	ONE-CHARACTER CODE - USE CODE 0188	40
ICE OUTSIDE TRANSECT PATTERN	ONE-CHARACTER CODE - USE CODE 0188	41
SHIP IN WATER	ONE-CHARACTER CODE - USE CODE 0189	42
WIDTH OF LEAD	ONE-CHARACTER CODE - USE CODE 0157	43
DISTANCE OF SHIP FROM EDGE OF LEAD OR POLYNIA	ONE-CHARACTER CODE - USE CODE 0157	44
TIME OF ICE CONDITIONS	XX - NUMBER OF MINUTES FROM STARTING TIME TO OBSERVATION TIME	45
PERCENT WATER VERSUS LAND COVERED	XX - WHOLE PERCENT	47
SIZE OF PONDS	ONE-CHARACTER CODE - USE CODE 0013	49
DESCRIPTION OF OPEN WATER ICE	ONE-CHARACTER CODE - USE CODE 0057	50
OPEN WATER ICE COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	51
BLANKS		52
SEQUENCE NUMBER	XXX - USED FOR SORTING RECORDS WITHIN A STATION	78
BLANKS		81

TEXT RECORD	ALWAYS '4'	10
STATION NUMBER	SEE RECORD '1'	11
TEXT	62-CHARACTER FIELD FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXX - SEE RECORD '3'	78
BLANKS		81
DATA RECORD	ALWAYS '5'	10
STATION NUMBER	SEE RECORD '1'	11
TIME (ELAPSED)	XX - NUMBER OF MINUTES FROM STARTING TIME TO OBSERVATION TIME	16
TAXONOMIC CODE	TEN-CHARACTER CODE - USE NODC TAXONOMIC CCDES	18
SUBSPECIES CODE	TWO-CHARACTER CODE - USE NODC TAXONOMIC CCDES	28
SPECIES GROUP	TWO-CHARACTER CODE - ASSOCIATED WITH TAXONOMIC CODES - USE INVESTIGATOR'S INTERNAL CODES	30
AGE CLASS GROUP	ONE-CHARACTER CODE - USE CODE 0112	32
SEX	ONE-CHARACTER CODE - USE CODE 0101	33
COLOR PHASE	ONE-CHARACTER CODE - USE CODE 0115	34
PLUMAGE	ONE-CHARACTER CODE - USE CODE 0043	35
MOLT	ONE-CHARACTER CODE - USE CODE 0039	36
NUMBER OF INDIVIDUALS	XXXXX - NUMBER OF INDIVIDUALS PER SPECIES	37
COUNTING METHOD	ONE-CHARACTER CODE - USE CODE 0097	42
RELIABILITY	ONE-CHARACTER CODE - USE CODE 0044	43
DISTANCE MEASUREMENT TYPE	ONE-CHARACTER CODE - USE CODE 0118	44
DISTANCE FROM OBSERVATION PLATFORM TO BIRDS	XXX (WHOLE METERS)	45
DIRECTION OF FLIGHT	XX - TENS OF DEGREES (TOWARD)	48
TYPE OF ASSOCIATION	ONE-CHARACTER CODE - USE CODE 0050	50
LINKAGE FOR MULTISPECIES	XXX - SEQUENCE NUMBER OF THE GROUP WITHIN ONE OBSERVATION TIME BLOCK (BLANK FOR SINGLE BIRDS)	51
NUMBER OF SPECIES PARTICIPATING	XX - SHOULD EQUAL THE NUMBER OF CARDS WITH THE SAME SEQUENCE NUMBER, COLS 51-53	54
BEHAVIOR (ACTIVITY)	TWO-CHARACTER CODE - USE CODE 0142	56
SPECIAL MARKS	ONE-CHARACTER CODE - USE CODE 0047	58
BIRD CONDITION	ONE-CHARACTER CODE - USE CODE 0114	59
FOOD SOURCE ASSOCIATION	ONE-CHARACTER CODE - USE CODE 0032	60
TAXONOMIC CODE FOR FOOD SPECIES	TEN-CHARACTER CODE - USE NODC TAXONOMIC CCDES FOR PREY SPECIES	61

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DEBRIS	ONE-CHARACTER CODE - USE CODE 0116	71
OIL	ONE-CHARACTER CODE - USE CODE 0099	72
DISTANCE FROM NEAREST BREEDING COLONY	XXX (SQ NAUTICAL MILES)	73
HABITAT	ONE-CHARACTER CODE - UP TO 2 DIFFERENT HABITATS CAN BE REPORTED - CODE FROM RIGHT TO LEFT - USE CODE 0098	76
SEQUENCE NUMBER	XXX - SEE RECORD '3'	78
SUBSTRATE	ONE-CHARACTER CODE - USE CODE 0103	81
COVER	ONE-CHARACTER CODE - USE CODE 0143	82
OUTSIDE ZONE	ONE-CHARACTER CODE - USE CODE 0042	83

FILE TYPE 033 - MARINE BIRD SIGHTINGS, SHIP/AIRCRAFT - 1/18/78 VERSION

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THE FORMAT CONSISTS OF FIVE RECORDS FOR REPORTING BEGINNING AND END POSITION OF TRANSECT, DATE AND ELAPSED TIME, SPEED AND COURSE, PLATFORM AND SURVEY OPERATING INFORMATION. DETAILED ENVIRONMENTAL INFORMATION INCLUDES METEOROLOGICAL, SEA SURFACE AND WATER PROPERTIES, DISTANCES TO SHORELINE AND SHELF BREAK, ICE CHARACTERISTICS WITHIN AND OUTSIDE EACH TRANSECT, OIL AND DEBRIS NEAR EACH STATION AND HABITAT DESCRIPTIONS. SPECIES DATA INCLUDES AGE, SEX, COLOR, PLUMAGE, NUMBER OF INDIVIDUALS, DIRECTION OF FLIGHT, ACTIVITY, FOOD ASSOCIATION AND LINKAGE BETWEEN SPECIES AND OTHER DATA RELEVANT TO MARINE BIRD OBSERVATIONS FROM SHIP OR AIRCRAFT. TAXONOMIC CODE FIELDS FOR BOTH PREY AND PREDATOR ARE INCLUDED. A TEXT RECORD ALSO IS AVAILABLE.

ALL RECORDS IN THIS FORMAT ARE 83 COLUMNS IN LENGTH. THIS FILE IS SORTED BY STATION NUMBER, RECORD TYPE AND SEQUENCE NUMBER TO OBTAIN THE PROPER SEQUENCE OF RECORDS.

PARAMETER	DESCRIPTION	SC
LOCATION RECORD	ALWAYS '1'	10
STATION NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED IN RECORDS 2,3,4 AND 5	11
STARTING LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	16
STARTING LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	23
STARTING DATE (GMT)	YYMMDD	31
STARTING TIME (GMT)	XXXX (HOURS AND MINUTES)	37
ENDING LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	41
ENDING LONGITUDE	DDMMSS PLUS HEMISPHERE 'E' OR 'W'	48
ELAPSED TIME	XX (MINUTES)	56
TIME ZONE	TWO-DIGIT FIELD PRECEDED BY + OR - SIGN TO INDICATE GEOGRAPHIC TIME ZONE FOR BENCHMARK	58
SPEED MADE GOOD	XXX (WHOLE KNOTS)	61
COURSE MADE GOOD	XX - TENS OF DEGREES (TOWARD)	64
HEIGHT ABOVE SEA SURFACE OF OBSERVER'S EYES	XXX (WHOLE METERS)	66
PLATFORM TYPE	ONE-CHARACTER CODE - USE CODE 0100	69
SAMPLING TECHNIQUE	ONE-CHARACTER CODE - USE CODE 0046	70
SHIP ACTIVITY	ONE-CHARACTER CODE - USE CODE 0102	71
PHOTO(S) TAKEN	ONE-CHARACTER CODE - USE CODE 0095	72
WIDTH OF TRANSECT	ONE-CHARACTER CODE - USE CODE 0060	73
ANGLE OF VIEW	ONE-CHARACTER CODE - USE CODE 0113	74
OBSERVATION CONDITIONS	ONE-CHARACTER CODE - USE CODE 0041	75
DISTANCE MADE GOOD	XXXX (KILOMETERS TO TENTHS)	76
WATCH TYPE	ONE-CHARACTER CODE - USE CODE 0152	80
TRANSECT WIDTH	XXX (WHOLE METERS)	81
ENVIRONMENTAL RECORD	ALWAYS '2'	10
STATION NUMBER	SEE RECORD '1'	11
DEPTH TO BOTTOM	XXXX (WHOLE METERS)	16
DEPTH OF THERMOCLINE	XXX (WHOLE METERS)	20
SURFACE TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	23
SURFACE SALINITY	XXX - PARTS PER THOUSAND TO TENTHS	27
DRY BULB TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	30
WET BULB TEMPERATURE	XXXX (DEG CENTIGRADE TO TENTHS)	34
RELATIVE HUMIDITY	XX - PERCENT	38
BAROMETRIC PRESSURE	XXXX (MILLIBARS TO TENTHS)	40
BAROMETRIC TREND	ONE-CHARACTER CODE - USE CODE 0186	44

WIND DIRECTION	TWO-DIGIT CODE - USE CODE 0110 - DIRECTION FROM	45
WIND SPEED	XX (WHOLE KNOTS)	47
SEA STATE	ONE-CHARACTER CODE - USE CODE 0109	49
SWELL DIRECTION	TWO-DIGIT CODE - USE CODE 0110 - DIRECTION FROM	50
SWELL HEIGHT	XXX (METERS TO TENTHS)	52
WEATHER	TWO-CHARACTER CODE - USE CODE 0159	55
CLOUD TYPE	ONE-CHARACTER CODE - USE CODE 0053	57
CLOUD AMOUNT	ONE-CHARACTER CODE - USE CODE 0105	58
WATER COLOR	TWO-CHARACTER CODE - USE CODE 0051	59
VISIBILITY	ONE-CHARACTER CODE - USE CODE 0157	61
SUN DIRECTION	ONE-CHARACTER CODE - USE CODE 0096 - DIRECTION FROM	62
GLARE INTENSITY	ONE-CHARACTER CODE - USE CODE 0035	63
GLARE AREA	ONE-CHARACTER CODE - USE CODE 0034	64
LIGHT LEVEL	XXX - EXPRESSED IN FOOT-CANDLES	65
MOON PHASE	ONE-CHARACTER CODE - USE CODE 0040	68
TIDE HEIGHT	ONE-CHARACTER CODE - USE CODE 0049	69
RISING OR FALLING TIDE	ONE-CHARACTER CODE - USE CODE 0187	70
DISTANCE TO NEAREST SHORELINE	XXXX (SQ NAUTICAL MILES)	71
DISTANCE TO SHELF BREAK	XXX (SQ NAUTICAL MILES)	75
SECCHI DEPTH	XX (WHOLE METERS)	78
DEBRIS	ONE-CHARACTER CODE FOR DEBRIS ENCOUNTERED BUT NOT BIRD ASSOCIATED - USE CODE 0116	80
BLANKS		81
ICE RECORD	ALWAYS '3	10
STATION NUMBER	SEE RECORD '1'	11
ICE IN TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	16
ICE IN TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	17
ICE IN TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	18
ICE IN TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	19
ICE IN TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	20
ICE IN TRANSECT MELT	ONE-CHARACTER CODE - USE CODE 0058	21
ICE OUTSIDE TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	22
ICE OUTSIDE TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	23
ICE OUTSIDE TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	24

ICE OUTSIDE TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	25
ICE OUTSIDE TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	26
ICE OUTSIDE TRANSECT MELT	ONE-CHARACTER CODE - USE CODE 0058	27
VISIBLE OPEN WATER TYPE OPENING	ONE-CHARACTER CODE USED WHEN AREA OF OPEN WATER IS VISIBLE IN DISTANCE - USE CCDE 0158	28
VISIBLE OPEN WATER DIRECTION	ONE-CHARACTER CODE USED ONLY IF COLUMN 28 CODED - USE CODE 0056	29
DISTANCE TO OPEN WATER	ONE-CHARACTER CODE USED ONLY IF COLUMN 28 CODED - USE CODE 0106	30
VISIBLE OPEN WATER LEAD CR POLYNIA	ONE-CHARACTER CCDE USED ONLY IF '6', '7' OR '8' IN COLUMN 28 CODED - USE CODE 0157	31
VISIBLE ICE DESCRIPTION	ONE-CHARACTER CODE USED ONLY IF '9' IN COLUMN 28 CODED - USE CODE 0055	32
VISIBLE ICE DIRECTION	ONE-CHARACTER CODE USED ONLY IF COLUMN 32 CODED - USE CODE 0056	33
DISTANCE TO VISIBLE ICE ARCTIC COD OBSERVED	SAME AS ABOVE - USE CODE 0106	34
EXCESS SEDIMENT	ONE-CHARACTER CODE - USE CODE 0095	35
ICE ALGAE LAYER	ONE-CHARACTER CODE - USE CODE 0095	36
MAMMAL TRACE	ONE-CHARACTER CODE - USE CODE 0095	37
OTHER FEATURES	ONE-CHARACTER CODE - USE CODE 0036	38
ICE IN TRANSECT PATTERN	ONE-CHARACTER CODE - USE CODE 0036	39
ICE OUTSIDE TRANSECT PATTERN	ONE-CHARACTER CODE - USE CODE 0188	40
SHIP IN WATER	ONE-CHARACTER CODE - USE CODE 0188	41
WIDTH OF LEAD	ONE-CHARACTER CODE - USE CODE 0189	42
DISTANCE OF SHIP FROM EDGE OF LEAD CR POLYNIA	ONE-CHARACTER CODE - USE CODE 0157	43
TIME OF ICE CONDITIONS	ONE-CHARACTER CODE - USE CODE 0157	44
PERCENT WATER VERSUS LAND COVERED	XX - NUMBER OF MINUTES FROM STARTING TIME TO OBSERVATION TIME	45
SIZE OF PONDS	XX - WHOLE PERCENT	47
DESCRIPTION OF OPEN WATER ICE	ONE-CHARACTER CODE - USE CODE 0013	49
OPEN WATER ICE COVERAGE ELANKS	ONE-CHARACTER CODE - USE CODE 0057	50
SEQUENCE NUMBER	ONE-CHARACTER CODE - USE CODE 0054	51
ELANKS	XXX - USED FOR SORTING RECORDS WITHIN A STATION	52
		78
		81

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TEXT RECORD	ALWAYS '4'	10
STATION NUMBER	SEE RECORD '1'	11
TEXT	62-CHARACTER FIELD FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXX - SEE RECORD '3'	78
BLANKS		81
DATA RECORD	ALWAYS '5'	10
STATION NUMBER	SEE RECORD '1'	11
TIME (ELAPSED)	XX - NUMBER OF MINUTES FROM STARTING TIME TO OBSERVATION TIME	16
TAXONOMIC CODE	TEN-CHARACTER CODE - USE NODC TAXONOMIC CCDES	18
SUBSPECIES CODE	TWO-CHARACTER CODE - USE NODC TAXONOMIC CCDES	28
SPECIES GROUP	TWO-CHARACTER CODE - ASSOCIATED WITH TAXONOMIC CODES - USE INVESTIGATOR'S INTERNAL CODES	30
AGE CLASS GROUP	CNE-CHARACTER CODE - USE CODE 0112	32
SEX	ONE-CHARACTER CODE - USE CODE 0101	33
COLOR PHASE	CNE-CHARACTER CODE - USE CODE 0115	34
PLUMAGE	CNE-CHARACTER CODE - USE CODE 0043	35
MOLT	ONE-CHARACTER CODE - USE CODE 0039	36
NUMBER OF INDIVIDUALS	XXXXX - NUMBER OF INDIVIDUALS PER SPECIES	37
COUNTING METHOD	CNE-CHARACTER CODE - USE CODE 0097	42
RELIABILITY	ONE-CHARACTER CODE - USE CODE 0044	43
DISTANCE MEASUREMENT TYPE	CNE-CHARACTER CODE - USE CODE 0118	44
DISTANCE FROM OBSERVATION	XXX (WHOLE METERS)	45
PLATFORM TO BIRDS		
DIRECTION OF FLIGHT	XX - TENS OF DEGREES (TOWARD)	48
TYPE OF ASSOCIATION	ONE-CHARACTER CODE - USE CODE 0050	50
LINKAGE FOR MULTISPECIES	XXX - SEQUENCE NUMBER OF THE GROUP WITHIN ONE OBSERVATION TIME BLOCK (BLANK FOR SINGLE BIRDS)	51
NUMBER OF SPECIES PARTICIPATING	XX - SHOULD EQUAL THE NUMBER OF CARDS WITH THE SAME SEQUENCE NUMBER, COLS 51-53	54
BEHAVIOR (ACTIVITY)	TWO-CHARACTER CODE - USE CODE 0142	56
SPECIAL MARKS	ONE-CHARACTER CODE - USE CODE 0047	58
BIRD CONDITION	CNE-CHARACTER CODE - USE CODE 0114	59
FOOD SOURCE ASSOCIATION	CNE-CHARACTER CODE - USE CODE 0032	60
TAXONOMIC CODE FOR FOOD SPECIES	TEN-CHARACTER CODE - USE NODC TAXONOMIC CCDES FOR FEED SPECIES	61

033/PG 5

DEBRIS	ONE-CHARACTER CODE - USE CODE 0116	71
OIL	ONE-CHARACTER CODE - USE CODE 0099	72
DISTANCE FROM NEAREST BREEDING COLONY	XXX (SQ NAUTICAL MILES)	73
HABITAT	ONE-CHARACTER CODE - UP TO 2 DIFFERENT HABITATS CAN BE REPORTED - CODE FROM RIGHT TO LEFT - USE CODE 0098	76
SEQUENCE NUMBER	XXX - SEE RECORD '3'	78
SUBSTRATE	ONE-CHARACTER CODE - USE CODE 0103	81
COVER	ONE-CHARACTER CODE - USE CODE 0143	82
OUTSIDE ZONE	ONE-CHARACTER CODE - USE CODE 0042	83

DATA DOCUMENTATION FORM

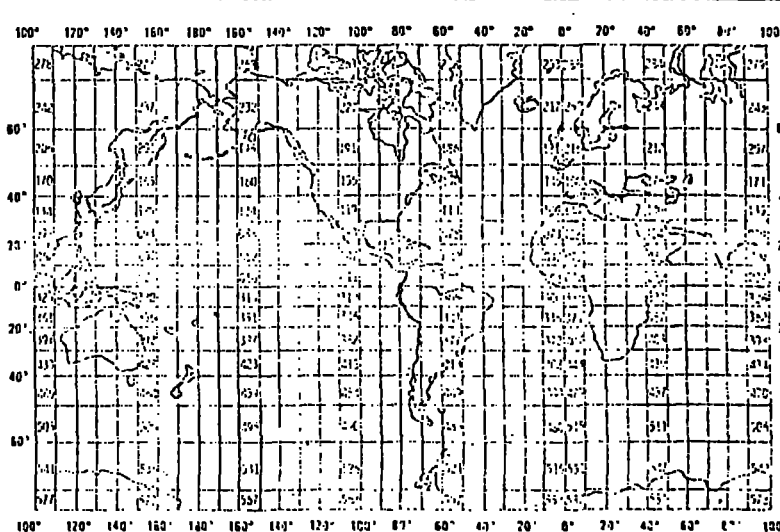
TR2843

NOAA FORM 24-13
(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-R3851

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 Rd. Fairbanks, AK 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCSEAP R.U. 330/196		File ID# 2GL876	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
USCG GLACIER WAGB-4	ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		U.S. U.S.	080676 090376
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. Chukchi and Beaufort Seas GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL 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 TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George J. Divoky Pt. Reyes Bird Observatory 4990 State Rt. No. 1 Stinson Beach, CA 94970 (415) 868-1221			

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 Longitude		Ship's instruments	Accuracy widely variable depending on frequency of NAVSAT, Loran, and Omega fixes, and use of radar when possible.	NA
Speed made good	Knots	Generally shipboard instru- ments, occasionally from positions.	NA	
Course made good	Tens of degrees	Plotted off charts, occasionally from ship's gyro		
Distance made good	km to tenths	Measured from locations on charts; or by multiplying speed by duration of transect.		
Depth to bottom	Meters	Nautical charts, occasionally ship's instruments		
Sea surface temp.	°C to tenths	Ship's instruments		
Dry bulb temp.	°C to tenths	Ship's instruments		
Wet bulb temp.	°C to tenths	Ship's instruments		
Bar. pressure	millibars-tenths	Ship's instruments		
Bar. trend	+, -, 0	Ship's instruments		
Wind direction	tens of degrees	Ship's instruments		
Wind speed	Whole knots	Ship's instruments		
Sea state	WMO code 3700	Ship's log		Distance measured to transect start point
Swell direction	Tens of Degrees WMO code 0885 and 0377	Ship's log		NA
Swell height	Meters to tenths	Ship's log		
Weather		Ship's log, or visual obs.		
Cloud type		Ship's log, or visual obs.		
Cloud amount		Ship's log, or visual obs.		
Visibility		Ship's log, or visual obs.		
Distance to shoreline	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Distance to shelfbreak	Whole km	Shortest distance measured from nautical charts		Distance measured to transect start point
Parameters of Record Type 3 (Ice)	Appropriate WMO codes (see record format description)	Visual observation		Averaging of parameter over period of transect
Taxonomic code	USFWS OBS-CE codes	Field identification (see section on methods)		NA

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

Five record types: Location (Type 1), Environmental (Type 2), Ice (Type 3),
Text (Type 4), and Data (Type 5) 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: Michael Crane (907) 279-4523
NAME AND PHONE NUMBER
ADDRESS 707 "A" St. Anchorage, AK 99501

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> NONE</p>
<p>7. PARITY</p> <p><input checked="" 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>NO LABEL</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>83/50</p> <p>13. LENGTH OF BYTES IN BITS</p>

RECORD FORMAT DESCRIPTION

2/20/76

RECORD NAME Location Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	
Latitude, Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	Starting Position
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Year	31	2	Bytes	I2	<div> <div>Last two digits of year</div> <div>Start- ing Date/ Time</div> <div>GMT</div> </div>
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Latitude,					
Degrees	41	2	Bytes	I2	
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	Ending Position
Hemisphere	47	1	Bytes	A1	'N' or 'S'

2/20/72

1. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (sec, min, bytes)	16. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
Longitude,					
Degrees	48	3	Bytes	I3	
Minutes	51	2	Bytes	I2	
Seconds	53	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56	2	Bytes	I2	Whole minutes
Time Zone	58	1	Bytes	A1	Always '+' or '-'
Time Zone	59	2	Bytes	A2	01-12
Speed Made Good	61	3	Bytes	I3	To whole knots
Course Made Good	64	2	Bytes	I2	Tens of degrees
Height Above Sea Surface of Observer's Eyes	66	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Sampling Technique Code	70	1	Bytes	A2	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Plank	73	3	Bytes	I3	
Distance made good	76	4	Bytes	I4	km to tenths

REF 3D FORMAT DESCRIPTION

2/20/76

CORD NAME Environmental

Ship and Aircraft Census

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- cline	20	3	Bytes	I3	In whole meters
Surface Temper- ature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temper- ature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temper- ature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humid- ity	38	2	Bytes	I2	Percent (00-99)
Barometric Pres- sure	40	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52	3	Bytes	I3	In meters to tenths
Weather	55	2	Bytes	A2	WMO code 4677
Cloud Type	57	1	Bytes	A1	WMO code 0500
Cloud Amount	58	1	Bytes	A1	WMO code 2700
Water Color	59	2	Bytes	A2	Foral - Ule scale

ORD FORMAT DESCRIPTION

2/20/76

ORD NAME Environmental Continued

Ship and Aircraft Census

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (0.8, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Visibility	61	1	Bytes	A1	WMO code 4300
Sun Direction Code	62	1	Bytes	A1	Use compass direction code
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65	3	Bytes	I3	In foot - candles X 100
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling
Distance to near- est Shoreline	71	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD FORMAT DESCRIPTION

RECORD NAME ICE

SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5		A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3962
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3962
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Visible Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552 -add to code:A=area of extensive open water
Direction Code	29	1	Bytes	A1	WMO 0739 -used only when 28 is coded
Distance Code	30	1	Bytes	A1	WMO 3600 - used only when 28 is coded
Lead of Polynya Width Code	31	1	Bytes	A1	WMO 3600

RECORD FORMAT DESCRIPTION

ORD NAME ICE (continued)

SHIP AND AIRCRAFT CENSUS

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Blank	32	1	Bytes		
<u>Visible Ice</u>					
Direction Code	33	1	Bytes	A1	WMO 0739 (used only if column 50 is coded)
Distance	34	1	Bytes	A1	WMO 3600
Arctic Cod Observed	35	1	Bytes	A1	Use Collection Code
Excess Sediment	36	1	Bytes	A1	Use Collection Code
Ice Algae Layer	37	1	Bytes	A1	Use Collection Code
Mammal Trace Code	38	1	Bytes	A1	Use Mammal Trace Code
Other Features	39	1	Bytes	A1	Use Mammal Trace Code
Ice Pattern	40	1	Bytes	A1	1 = regular, 2 - irregular
Pattern Code	41	1	Bytes	A1	1 = regular, 2 = irregular
Ship in Lead or Polynya Code	42	1	Bytes	A1	1=lead,2=polynya,3=open water of indeterminable type
Width of Lead or Polynya Code	43	1	Bytes	A1	WMO 4300 (used only if 38 coded)
Distance of Ship from edge code	44	1	Bytes	A1	WMO 4322 (used only if 38 coded)
Time of Ice	45	1	Bytes	A1	Minutes in Tens
Time of Ice	46	1	Bytes	A1	Minutes in Ones
Description Code	50	1	Bytes	A1	WMO 1147
Coverage Code	51	1	Bytes	A1	WMO 0547 (used only if column 50 is coded)
	78	3	Bytes		Sequence Number

RECORD FORMAT DESCRIPTION

2/20/76

RD NAME TEXT SHIP AND AIRCRAFT CENSUS

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 '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Text	16	62	Bytes	62A1	
Sequence	78	3	Bytes	I3	Ascending numeric, used for sorting

RD FORMAT DESCRIPTION

2/20/70

CORD NAME Data Ship and Aircraft Census

4. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	A5	
Time	16	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18	10	Bytes	I10	
Sub Species	28	2	Bytes	I2	
Species Group	30	2	Bytes	A2	
Age Class Group Code	32	1	Bytes	A1	
Sex Code	33	1	Bytes	A1	
Color Phase Code	34	1	Bytes	A1	
Plumage Code	35	1	Bytes	A1	
Molt Code	36	1	Bytes	A1	
Number of Individ- uals	37	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code	44	1	Bytes	A1	Z = Zone A = Actual
Distance from ob- servation plat- form to birds	45	3	Bytes	I3	In tens of meters
Direction of Flight	48	2	Bytes	I2	In tens of degrees
Association code, Type of Associ- ation	50	1	Bytes	A1	

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME Data Ship and Aircraft Census (Continued)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Linkage for Multispecies (sequence number)	51	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56	2	Bytes	A2	
Special Marks Code	58	1	Bytes	A1	
Bird Condition Code	59	1	Bytes	A1	
Food Source Assoc-Code	60	1	Bytes	A1	
Lexonomic Code for Food Species	61	10	Bytes	I10	
Debris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	1	Bytes	I3	In nautical miles
Substrata	74	1	Bytes	I1	
Cover	75	1	Bytes	I1	
Habitat Code	76	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78	3	Bytes	I3	Ascending numeric, for sorting purposes

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800157	F033	TR2838	0081	311K	31SU	1976/03/15	1SR376	306604
7800157	F033	TR2839	0081	311K	31SU	1976/04/13	1SR476	306605
7800157	F033	TR2840	0081	311K	31GL	1976/10/07	2GLA76	306606
7800157	F033	TR2841	0081	311K	31GL	1976/04/29	2GL976	306607
7800157	F033	TR2842	0081	311K	31DS	1976/09/11	1DI976	306608
7800157	F033	TR2843	0081	311K	31GL	1976/08/07	2GL876	306609
7800157	F033	TR2844	0081	311K	31BI	1976/07/23	2BI776	306610
7800157	F033	TR2845	0081	311K	31GL	1975/07/30	2GL875	306611
7800157	F033	TR2846	0081	311K	3222	1975/08/21	3AL876	306612

(9 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7800157	F033	TR2838	31SU	204	3031	76/03/15	76/04/02
7800157	F033	TR2839	31SU	106	1388	76/04/13	76/04/24
7800157	F033	TR2840	31GL	102	752	76/10/07	76/10/12
7800157	F033	TR2841	31GL	176	1185	76/04/29	76/10/02
7800157	F033	TR2842	31DS	257	2278	76/09/11	76/09/22
7800157	F033	TR2843	31GL	297	2486	76/08/07	78/08/12
7800157	F033	TR2844	31BI	88	673	76/07/23	76/07/28
7800157	F033	TR2845	31GL	482	4582	75/07/30	76/08/27
7800157	F033	TR2846	3222	135	1077	75/08/21	76/09/03

(9 rows affected)