

DOF A:2:19

DATA DOCUMENTATION FORM

79-0210

NOAA FORM 24-13 (4-72)

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

FORM APPROVED O.M.B. No. 41-R2651

F033

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 L. HUNT, JR.
DEPT OF ECOLOGY - EVOLUTIONARY BIOLOGY
UCI
IRVINE, CA 92717

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

OCSEAP

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

~~UCI 702 (leftover from '71)~~
UCI 801 (ship survey) - TR4179
UCI 808 (helo survey) TR4185

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR
Surveyor	RESEARCH SHIP HELICOPTER	US	US	4/25/78 4/30/78	5/2/78 5/1/78

8. ARE DATA PROPRIETARY?

NO YES

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

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

NO YES 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 L. Hunt, Jr.
UC-Irvine
IRVINE, CA 92717
714-833-6322

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

GENERAL AREA

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
 AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

4 RECORD TYPES
 LOCATION (1)
 ENVIRONMENT (2)
 TEXT (4)
 DATA (5)
 DIFFERENTIATED BY BYTE 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILES ORGANIZED BY STATION NUMBER, RECORD TYPE + SEQUENCE NUMBER

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


4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Grace Bush
 ADDRESS UCI IRVINE, CA 92717

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 <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 checked="" type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</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 LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>RU 83 033 UCI 702 Ship & Aircraft Census UCI 801 UCI 808 4/25/78 - 9/27/78 GEORGE HUNT</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 <u>4000</u></p> <p>13. LENGTH OF BYTES IN BITS</p>

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	degrees, minutes, seconds	taken from Ships Smooth plot	N/A	
Time, speed, Course	GMT	ship clock, ship log	calculated by ship personnel	
Depth	meters	ship log		
Surface temp.	1/10 °C	"		
Salinity	‰ 10th	"		
Dry Bulb	1/10 °C	"		
Baro. Pressure	tenths degrees	"		
Wind Direct Speed.	Knots	"		
Sea State	code	"		
Swell Dir.	° or meter degrees	"		
Hgt.	"	"		
Weather	code	"		
Visibility	code	"		
Glare	code	"		
Distance to shore	whole naut. miles	calculated from smooth plot		
Distance to shelf break	"	"		
Age, sex, plumage, color	Code	seen by observer		
# individuals	whole #	"		
Count. method reliability	code code	estimated by observer		

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
Dist. measure Meters to birds Dir. of flight. Linkage #species Behavior	Code whole meters Tens of Degrees whole numbers - Code	observer Made by observer Made by coder from raw data - Estimated by observer		
Band condition Food source Debris	Code " "	made by observer " "		

RECORD FORMAT DESCRIPTION

RECORD NAME Location 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	UC1801, UC1808
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11	5	Bytes	A5	S1 ---, H8 ---
Latitude, Degrees	16	2	Bytes	I2	Starting Position
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23	3	Bytes	I3	} Starting Date/Time GMT
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
Month	33	2	Bytes	I2	1-12
Day	35	2	Bytes	I2	1-31
Hour	37	2	Bytes	I2	0-23
Minute	39	2	Bytes	I2	0-59
Latitude, Degrees	41	2	Bytes	I2	Ending Position
Minutes	43	2	Bytes	I2	
Seconds	45	2	Bytes	I2	
Hemisphere	47	1	Bytes	A1	

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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
Width of Transect	73	1	Bytes	A1	Use Zone Scheme Code
Angle of View Code	74	1	Bytes	A1	
Observation Conditions Code	75	1	Bytes	A1	
Distance Made Good	76	4	Bytes	I4	Kilometers to tenths
Watch Type Code	80	1	Bytes	A1	Use Watch Type Illustration
Transect Width	81	3	Bytes	3I	Tens of meters

RECORD FORMAT DESCRIPTION

2-20-76

RECORD NAME Environmental 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	UC1801, UC1808
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 Thermocline	20	3	Bytes	I3	In whole meters
Surface Temperature	23	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temperature	30	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temperature	34	4	Bytes	I4	In tenths of Deg. C.
Relative Humidity	38	2	Bytes	I2	Percent (00-99)
Barometric Pressure	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

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	Tens of foot-candles
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling, '0' = slack water
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.
Blank	81	3	Bytes	3X	

RECORD 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	UC1801, UC1808
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
Blank	81	3	Bytes	3X	

RECORD FORMAT DESCRIPTION

2-20-76

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	UUCI 801, UUCI 806
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	(2,6)
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	
Distance from observation platform to birds	45	3	Bytes	I3	In ^{whole} 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

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RECORD NAME Data Ship and Aircraft Census (Continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (c.A., 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	
Opis Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	3	Bytes	I3	In nautical miles
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
Substrate Code	81	1	Bytes	A1	
Cover Code	82	1	Bytes	A1	
Outside Zone Code	83	1	Bytes	A1	

C. DATA FORMAT

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

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

Record Type is coded in column 10 of each record as follows:

- 1 - Location
- 2 - Environment
- 3 - Ice Record
- 4 - Text Comments
- 5 - Data Observations

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File is organized by Station Number in Columns 11-15 of each record. Each Station contains one Type 1 card; one Type 2 card; zero to several Type 3 cards; and one to several Type 5 cards (one for each observation at that station).

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Data Projects Group (401)792-2320
ADDRESS 333 Pastore Hall, University of Rhode Island, Kingston, RI 02881

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 <input checked="" type="checkbox"/> <u>1/2 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17</p> <p style="text-align: center;">IBM 3420 <input checked="" type="checkbox"/> <u>Tape Mark</u></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>UCI 801 AND UCI 808 ON TAPE UCI 78 IN this order:</p> <p>→UCI 801 UCI 805 UCI 802 UCI 806 UCI 803 UCI 808 ← UCI 804</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 style="text-align: center;">Lrcl=83 Blk size= <u>3735</u></p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Location Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 1
Station No	11	5	bytes	A5	
Latitude -					Starting Position
Degrees	16	2	bytes	I2	33-73 degrees
Minutes	18	2	bytes	I2	0-59 minutes
Seconds	20	2	bytes	I2	0-59 seconds
Hemisphere	22	1	bytes	A1	N hemisphere
Longitude -					Starting Position
Degrees	23	3	bytes	I3	118-180 degrees
Minutes	26	2	bytes	I2	0-59 minutes
Seconds	28	2	bytes	I2	0-59 seconds
Hemisphere	30	1	bytes	A1	W hemisphere
Date -					Starting date GMT
Year	31	2	bytes	I2	Last 2 digits
Month	33	2	bytes	I2	1-12 months
Day	35	2	bytes	I2	1-31 days
Time -					Starting time GMT
Hours	37	2	bytes	I2	0-23 hours
Minutes	39	2	bytes	I2	0-59 minutes
Latitude -					Ending Position
Degrees	41	2	bytes	I2	33-73 degrees
Minutes	43	2	bytes	I2	0-59 minutes
Seconds	45	2	bytes	I2	0-59 seconds
Hemisphere	47	1	bytes	A1	N hemisphere
Longitude -					Ending Position
Degrees	48	3	bytes	I3	118-180 degrees
Minutes	51	2	bytes	I2	0-59 minutes
Seconds	53	2	bytes	I2	0-59 seconds
Hemisphere	55	1	bytes	A1	W hemisphere
Elapsed Time	56	2	bytes	I2	0-30 whole minutes
Time Zone -					
Sign	58	1	bytes	A1	+ or - relative to GMT
Number	59	2	bytes	I2	Zone 01-12
Ship's Speed	61	3	bytes	I3	Whole knots
Course Heading	64	2	bytes	I2	0-35 tens of degrees true

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Location (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Height of Eyes Above Sea	66	3	bytes	I3	Whole meters
Platform Type	69	1	bytes	A1	NODC Platform Type Code
Sampling Technique	70	1	bytes	A2	NODC Sampling Technique Code
Ship Activity	71	1	bytes	A1	NODC Ship Activity Code
Photos Taken	72	1	bytes	A1	NODC Collection Code
Width of Transect	73	1	bytes	A1	NODC Zone Scheme Code
Angle of View	74	1	bytes	A1	NODC Angle of View Code
Observation Conditions	75	1	bytes	A1	NODC Observation Conditions Code
Distance Made Good	76	4	bytes	I4	Kilometers to tenths
Watch Type	80	1	bytes	A1	
Transect Width	81	3	bytes	I3	Tens of meters

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Environment Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 2
Station No	11	5	bytes	A5	
Bottom Depth	16	4	bytes	I4	Whole meters
Thermocline Depth	20	3	bytes	I3	0-100 meters
Sea Surface Temperature	23	4	bytes	I4	-3 to +10 degrees to tenths Celsius
Salinity	27	3	bytes	I3	20 o/oo to 34 o/oo parts per thousand to tenths
Dry Bulb Temp	30	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Wet Bulb Temp	34	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Humidity	38	2	bytes	I2	00-99 percent
Barometric Pressure	40	4	bytes	I4	0.9600-1.0400 bars to tenths of millibars
Barometric Trend	44	1	bytes	A1	+ rising, - falling, 0 steady
Wind Direction	45	2	bytes	I2	NODC Direction Code (WMO Codes 0885 & 0877)
Wind Speed	47	2	bytes	I2	0-50 knots
Sea State	49	1	bytes	A1	WMO Code 3700
Swell Direction	50	2	bytes	I2	NODC Direction Code
Swell Height	52	3	bytes	I3	0-07.6 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

RECORD FORMAT DESCRIPTION

RECORD NAME: Ship and Aircraft Census Data - Environment (continued)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Water Color	59	2	bytes	A2	NODC Water Color Code (Forel-Ule scale)
Visibility	61	1	bytes	A1	WMO Code 4300
Sun Direction	62	1	bytes	A1	NODC Compass Direction Code
Glare Intensity	63	1	bytes	A1	NODC Glare Intensity Code
Glare Area	64	1	bytes	A1	NODC Glare Area Code
Light Level	65	3	bytes	I3	Tens of Foot-candles
Moon Phase	68	1	bytes	A1	NODC Moon Phase Code
Tide Height	69	1	bytes	A1	NODC Tide Height Code
Tide Cycle	70	1	bytes	A1	+ rising, - falling, 0 slack water
Distance to Shore	71	4	bytes	I4	Whole nautical miles
Distance to Shelf break	75	3	bytes	I3	Whole nautical miles
SECCHI Depth	78	2	bytes	I2	Whole meters
Debris Code	80	1	bytes	A1	NODC Debris Code (for non-bird associated debris)
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Ice Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 3
Station No	11	5	bytes	A5	
Ice In Transect					
Cover	16	1	bytes	A1	WMO Code 0547
Type	17	1	bytes	A1	WMO Code 3763
Form	18	1	bytes	A1	WMO Code 1147
Relief	19	1	bytes	A1	WMO Code 3962
Thick	20	1	bytes	A1	WMO Code 4006
Melt	21	1	bytes	A1	WMO Code 2650
Ice Outside Transect					
Cover	22	1	bytes	A1	WMO Code 0547
Type	23	1	bytes	A1	WMO Code 3763
Form	24	1	bytes	A1	WMO Code 1147
Relief	25	1	bytes	A1	WMO Code 3962
Thick	26	1	bytes	A1	WMO Code 4006
Melt	27	1	bytes	A1	WMO Code 2650
Open Water					
Type	28	1	bytes	A1	WMO Code 4552
Direction	29	1	bytes	A1	WMO Code 0739
Distance	30	1	bytes	A1	WMO Code 3600
Lead/Polynya	31	1	bytes	A1	WMO Code 4300
Visible Ice					
Description	32	1	bytes	A1	WMO Code 0663
Direction	33	1	bytes	A1	WMO Code 0739
Distance	34	1	bytes	A1	WMO Code 3600
Miscellaneous					
Arctic Cod Excess	35	1	bytes	A1	NODC Collection Code
Sediment	36	1	bytes	A1	NODC Collection Code
Ice Algae	37	1	bytes	A1	NODC Collection Code
Mammal Trace	38	1	bytes	A1	NODC Mammal Trace Code
Other Features	39	1	bytes	A1	NODC Mammal Trace Code
Ice Pattern					
In Transect	40	1	bytes	A1	1-Regular, 2-Clumped
Outside Trans	41	1	bytes	A1	1-Regular, 2-Clumped

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Ice (continued)

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Ship in Lead or Polynya Location	42	1	bytes	A1	1-Lead, 2-Polynya, 3-Indeterminable
Width	43	1	bytes	A1	WMO Code 4300
Distance	44	1	bytes	A1	WMO Code 4300
Time of Ice Conditions	45	2	bytes	I2	Whole minutes from start time to observation time, must increase for a station
Water vs Land % Covered	47	2	bytes	I2	00-99 Percent
Pond Size	49	1	bytes	A1	NODC Size of Pond Code
Open Water Ice Description Cover	50	1	bytes	A1	WMO Code 1147
	51	1	bytes	A1	WMO Code 0547
Blank	52	26	bytes	X26	
Sequence Number	78	3	bytes	I3	Ascending numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Text Record

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 4
Station No	11	5	bytes	'A5	
Text	16	62	bytes	A62	
Sequence Number	78	3	bytes	I3	Ascending Numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Data Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 5
Station No	11	5	bytes	A5	
Time into Transect	16	2	bytes	I2	Whole minutes from start time to observation time
Taxonomic Code	18	12	bytes	I12	Class 88-92, ends with paired trailing blanks
Species Group	30	2	bytes	I2	
Age	32	1	bytes	A1	NODC Age Class Group Code
Sex	33	1	bytes	A1	NODC Sex Code
Color	34	1	bytes	A1	NODC Color Phase Code
Plumage	35	1	bytes	A1	NODC Plumage Code
Molt	36	1	bytes	A1	NODC Molt Code
Number of Individuals	37	5	bytes	I5	Whole number, must not be omitted
Counting Method	42	1	bytes	A1	NODC Counting Method Code
Reliability	43	1	bytes	A1	NODC Reliability Code
Distance Measure Type	44	1	bytes	A1	NODC Distance Measurement Type Code
Distance to Birds	45	3	bytes	I3	Tens of meters
Direction of Flight	48	2	bytes	I2	00-35 Tens of degrees
Association	50	1	bytes	A1	NODC Type of Assoc Code
Linkage	51	3	bytes	I3	Sequence number of multi- species group in station
Species Number	54	2	bytes	I2	Number of species linked
Behavior	56	2	bytes	A2	NODC Behavior Code
Special Marks	58	1	bytes	A1	NODC Special Marks Code
Bird Condition	59	1	bytes	A1	NODC Bird Condition Code

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Data (continued)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Food Source	60	1	bytes	A1	NODC Food Source Association Code
Tax Code of Food	61	10	bytes	I10	
Debris	71	1	bytes	A1	NODC Debris code
Oil	72	1	bytes	A1	NODC Oil Code
Distance from Breed Colony	73	3	bytes	I3	Nautical miles
Habitat	76	2	bytes	2A1	NODC Habitat Code, may code 2, left to right
Sequence Number	78	3	bytes	I3	Ascending numeric
Substrate	81	1	bytes	A1	NODC Substrate Code
Cover	82	1	bytes	A1	NODC Cover Code
Outside Zone	83	1	bytes	A1	NODC Outside Zone Code

```

      d
      d
      d
      d
      dddd      PPP      ssss
d      d      P      P      u      u
d      d      P      P      u      u
      ddd      PPPP      uuuuu
      P      u      u
      P      u      u
      P      ssss

```

DATA PROJECTS GROUP
 333 Pastore Hall
 University of R.I.
 Kingston, RI 02881

This Data Documentation Form (DDF) is composed of two parts. The first contains tape specifications and record format descriptions provided by the originator cited in Section A.1. The data have subsequently been validated by the Data Projects Group. Range and relational checks, code group checks, plus relocation of fields, unit conversions, and final tape recording techniques used in this process are given in the second part. Resolution of data errors found during this process has been made through contact with the originator.

DATA DOCUMENTATION FORM

79-0210

NOAA FORM 24-13
(4-72)

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

FORM APPROVED
O.M.B. No. 41-R2651

F033



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 L HUNT, JR. DEPT OF ECOLOGY - EVOLUTIONARY BIOLOGY UCI IRVINE, CA 92717			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OLSEAP		UCI 802 - TR 4180 UCI 804 - TR 4182 UCI 805 - TR 4183	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
Thomas G. Thompson	RESEARCH SHIP	US	US
7. DATES		FROM: MO, DAY, YR	TO: MO, DAY, YR
		5/25/78	6/12/78
		6/18/78	6/29/78
		7/3/78	7/10/78
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?			
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
George L. Hunt, Jr. UC-Irvine IRVINE, CA 92717 714-833-6322			

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 Time	degrees, min, sec G.M.T.	observer recorded from ship instruments ship clock		
Speed, Course	Knots $\frac{1}{10}^{\circ}$	observer recorded from ship instruments		
Depth to bottom	meters			
Surface temp	$\frac{1}{10}^{\circ}C$			
Salinity	$\frac{1}{10}^{th}$			
Dry Bulb	$\frac{1}{10}^{\circ}C$			
Baro. Pressure	millibars			
Wind Dir	tens degrees			
Speed	knots			
Sea State	code			
Swell Dir	tens degrees			
Hgt.	meters			
visibility	code			
glare	code			
Cloud amount	code			
Weather	code			
age, class sex plumage color	Codes	<p>made by observer</p> 		

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
<p># individuals meters to birds Dir. flight behavior linkage # species bird condition food source debris</p>	<p>whole # whole meters tens degrees code whole numbers Codes</p>	<p>Estimated by observer ↓ Calculated by coder Estimated by observer</p>		

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
 AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

4 record types
 (1) Location
 (2) Environment
 (4) Test
 (5) Data
 Differentiated by byte 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Files are organized by station number, record type and sequence numbers.

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

4. RESPONSIBLE COMPUTER SPECIALIST:
 NAME AND PHONE NUMBER Green Beach
 ADDRESS UCI, Irvine, Calif 92717

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"/> _____</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>RU 83 033 UC1802 UC1804 SHIP CENSUS UC1805 4/25/78 - 9/27/78 GEORGE HUNT</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>4000</p> <p>13. LENGTH OF BYTES IN BITS</p>

RECORD FORMAT DESCRIPTION

CORD NAME Location 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 '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		'N' or 'S'
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 } Starting Date/Time GMT	
Month	33	2	Bytes	I2		1-12
Day	35	2	Bytes	I2		1-31
Hour	37	2	Bytes	I2		0-23
Minute	39	2	Bytes	I2	0-59	
Latitude, Degrees	41	2	Bytes	I2	Ending Position	
Minutes	43	2	Bytes	I2		
Seconds	45	2	Bytes	I2		
Hemisphere	47	1	Bytes	A1		'N' or 'S'

5/5/77

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (U.S. 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
Width of Transect	73	1	Bytes	A1	Use Zone Scheme Code
Angle of View Code	74	1	Bytes	A1	
Observation Conditions Code	75	1	Bytes	A1	
Distance Made Good	76	4	Bytes	I4	Kilometers to tenths
Watch Type Code	80	1	Bytes	A1	Use Watch Type Illustration
Transect Width	81	3	Bytes	3I	Tens of meters

RECORD FORMAT DESCRIPTION

2-20-76

RECORD NAME Environmental 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 '2'
Station Number	11	5	Bytes	A5	
Depth to Bottom	16	4	Bytes	I4	In whole meters
Depth of Thermo- -oline	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

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	Tens of foot-candles
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling, '0' = slack water
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.
Blank	81	3	Bytes	3X	

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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
Blank	81	3	Bytes	3X	

RECORD FORMAT DESCRIPTION

2-20-76

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	
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

5-2-77 10

RECORD NAME Data Ship and Aircraft Census (Continued)

14. 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	
Opis Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	3	Bytes	I3	In nautical miles
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
Substrate Code	81	1	Bytes	A1	
Cover Code	82	1	Bytes	A1	
Outside Zone Code	83	1	Bytes	A1	

C. DATA FORMAT

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

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

Record Type is coded in column 10 of each record as follows:

- 1 - Location
- 2 - Environment
- 3 - Ice Record
- 4 - Text Comments
- 5 - Data Observations

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File is organized by Station Number in Columns 11-15 of each record. Each Station contains one Type 1 card; one Type 2 card; zero to several Type 3 cards; and one to several Type 5 cards (one for each observation at that station).

3. ATTRIBUTES AS EXPRESSED IN

- PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Data Projects Group (401)792-2320
 ADDRESS 333 Pastore Hall, University of Rhode Island, Kingston, RI 02881

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____ </p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> 1/2 inch</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____ </p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17</p> <p style="text-align: center;">IBM 3420 <input checked="" type="checkbox"/> Tape Mark</p>
<p>7. PARITY</p> <p> <input checked="" type="checkbox"/> ODD <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>UCI 802 , UCI 804 AND UCI 805 ON TAPE UCI 78 IN THIS ORDER: UCI 801 → UCI 804 UCI 808 → UCI 802 → UCI 805 UCI 803 UCI 806</p>
<p>8. DENSITY</p> <p> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 536 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____ </p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">Lrecl=83 Blk size= 3735</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Location Record

RECORD NAME

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 1
Station No	11	5	bytes	A5	
Latitude -					Starting Position
Degrees	16	2	bytes	I2	33-73 degrees
Minutes	18	2	bytes	I2	0-59 minutes
Seconds	20	2	bytes	I2	0-59 seconds
Hemisphere	22	1	bytes	A1	N hemisphere
Longitude -					Starting Position
Degrees	23	3	bytes	I3	118-180 degrees
Minutes	26	2	bytes	I2	0-59 minutes
Seconds	28	2	bytes	I2	0-59 seconds
Hemisphere	30	1	bytes	A1	W hemisphere
Date -					Starting date GMT
Year	31	2	bytes	I2	Last 2 digits
Month	33	2	bytes	I2	1-12 months
Day	35	2	bytes	I2	1-31 days
Time -					Starting time GMT
Hours	37	2	bytes	I2	0-23 hours
Minutes	39	2	bytes	I2	0-59 minutes
Latitude -					Ending Position
Degrees	41	2	bytes	I2	33-73 degrees
Minutes	43	2	bytes	I2	0-59 minutes
Seconds	45	2	bytes	I2	0-59 seconds
Hemisphere	47	1	bytes	A1	N hemisphere
Longitude -					Ending Position
Degrees	48	3	bytes	I3	118-180 degrees
Minutes	51	2	bytes	I2	0-59 minutes
Seconds	53	2	bytes	I2	0-59 seconds
Hemisphere	55	1	bytes	A1	W hemisphere
Elapsed Time	56	2	bytes	I2	0-30 whole minutes
Time Zone -					
Sign	58	1	bytes	A1	+ or - relative to GMT
Number	59	2	bytes	I2	Zone 01-12
Ships Speed	61	3	bytes	I3	Whole knots
Course Heading	64	2	bytes	I2	0-35 tens of degrees true

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Location (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Height of Eyes Above Sea	66	3	bytes	I3	Whole meters
Platform Type	69	1	bytes	A1	NODC Platform Type Code
Sampling Technique	70	1	bytes	A2	NODC Sampling Technique Code
Ship Activity	71	1	bytes	A1	NODC Ship Activity Code
Photos Taken	72	1	bytes	A1	NODC Collection Code
Width of Transect	73	1	bytes	A1	NODC Zone Scheme Code
Angle of View	74	1	bytes	A1	NODC Angle of View Code
Observation Conditions	75	1	bytes	A1	NODC Observation Conditions Code
Distance Made Good	76	4	bytes	I4	Kilometers to tenths
Watch Type	80	1	bytes	A1	
Transect Width	81	3	bytes	I3	Tens of meters

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Environment Record

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 2
Station No	11	5	bytes	A5	
Bottom Depth	16	4	bytes	I4	Whole meters
Thermocline Depth	20	3	bytes	I3	0-100 meters
Sea Surface Temperature	23	4	bytes	I4	-3 to +10 degrees to tenths Celsius
Salinity	27	3	bytes	I3	20 o/oo to 34 o/oo parts per thousand to tenths
Dry Bulb Temp	30	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Wet Bulb Temp	34	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Humidity	38	2	bytes	I2	00-99 percent
Barometric Pressure	40	4	bytes	I4	0.9600-1.0400 bars to tenths of millibars
Barometric Trend	44	1	bytes	A1	+ rising, - falling, 0 steady
Wind Direction	45	2	bytes	I2	NODC Direction Code (WMO Codes 0885 & 0877)
Wind Speed	47	2	bytes	I2	0-50 knots
Sea State	49	1	bytes	A1	WMO Code 3700
Swell Direction	50	2	bytes	I2	NODC Direction Code
Swell Height	52	3	bytes	I3	0-07.6 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

RECORD FORMAT DESCRIPTION

RECORD NAME: Ship and Aircraft Census Data - Environment (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Water Color	59	2	bytes	A2	NODC Water Color Code (Forel-Ule scale)
Visibility	61	1	bytes	A1	WMO Code 4300
Sun Direction	62	1	bytes	A1	NODC Compass Direction Code
Glare Intensity	63	1	bytes	A1	NODC Glare Intensity Code
Glare Area	64	1	bytes	A1	NODC Glare Area Code
Light Level	65	3	bytes	I3	Tens of Foot-candles
Moon Phase	68	1	bytes	A1	NODC Moon Phase Code
Tide Height	69	1	bytes	A1	NODC Tide Height Code
Tide Cycle	70	1	bytes	A1	+ rising, - falling, 0 slack water
Distance to Shore	71	4	bytes	I4	Whole nautical miles
Distance to Shelf break	75	3	bytes	I3	Whole nautical miles
SECCHI Depth	78	2	bytes	I2	Whole meters
Debris Code	80	1	bytes	A1	NODC Debris Code (for non-bird associated debris)
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Ice Record

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (0-4, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 3
Station No	11	5	bytes	A5	
Ice In Transect					
Cover	16	1	bytes	A1	WMO Code 0547
Type	17	1	bytes	A1	WMO Code 3763
Form	18	1	bytes	A1	WMO Code 1147
Relief	19	1	bytes	A1	WMO Code 3962
Thick	20	1	bytes	A1	WMO Code 4006
Melt	21	1	bytes	A1	WMO Code 2650
Ice Outside Transect					
Cover	22	1	bytes	A1	WMO Code 0547
Type	23	1	bytes	A1	WMO Code 3763
Form	24	1	bytes	A1	WMO Code 1147
Relief	25	1	bytes	A1	WMO Code 3962
Thick	26	1	bytes	A1	WMO Code 4006
Melt	27	1	bytes	A1	WMO Code 2650
Open Water					
Type	28	1	bytes	A1	WMO Code 4552
Direction	29	1	bytes	A1	WMO Code 0739
Distance	30	1	bytes	A1	WMO Code 3600
Lead/Polynya	31	1	bytes	A1	WMO Code 4300
Visible Ice					
Description	32	1	bytes	A1	WMO Code 0663
Direction	33	1	bytes	A1	WMO Code 0739
Distance	34	1	bytes	A1	WMO Code 3600
Miscellaneous					
Arctic Cod Excess	35	1	bytes	A1	NODC Collection Code
Sediment	36	1	bytes	A1	NODC Collection Code
Ice Algae	37	1	bytes	A1	NODC Collection Code
Mammal Trace	38	1	bytes	A1	NODC Mammal Trace Code
Other Features	39	1	bytes	A1	NODC Mammal Trace Code
Ice Pattern					
In Transect	40	1	bytes	A1	1-Regular, 2-Clumped
Outside Trans	41	1	bytes	A1	1-Regular, 2-Clumped

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Ice (continued)

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Ship in Lead or Polynya Location	42	1	bytes	A1	1-Lead, 2-Polynya, 3-Indeterminable
Width	43	1	bytes	A1	WMO Code 4300
Distance	44	1	bytes	A1	WMO Code 4300
Time of Ice Conditions	45	2	bytes	I2	Whole minutes from start time to observation time, must increase for a station
Water vs Land % Covered	47	2	bytes	I2	00-99 Percent
Pond Size	49	1	bytes	A1	NODC Size of Pond Code
Open Water Ice Description	50	1	bytes	A1	WMO Code 1147
Cover	51	1	bytes	A1	WMO Code 0547
Blank	52	26	bytes	X26	
Sequence Number	78	3	bytes	I3	Ascending numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Text Record

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 4
Station No	11	5	bytes	'A5	
Text	16	62	bytes	A62	
Sequence Number	78	3	bytes	I3	Ascending Numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Data Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 5
Station No	11	5	bytes	A5	
Time into Transect	16	2	bytes	I2	Whole minutes from start time to observation time
Taxonomic Code	18	12	bytes	I12	Class 88-92, ends with paired trailing blanks
Species Group	30	2	bytes	I2	
Age	32	1	bytes	A1	NODC Age Class Group Code
Sex	33	1	bytes	A1	NODC Sex Code
Color	34	1	bytes	A1	NODC Color Phase Code
Plumage	35	1	bytes	A1	NODC Plumage Code
Molt	36	1	bytes	A1	NODC Molt Code
Number of Individuals	37	5	bytes	I5	Whole number, must not be omitted
Counting Method	42	1	bytes	A1	NODC Counting Method Code
Reliability	43	1	bytes	A1	NODC Reliability Code
Distance Measure Type	44	1	bytes	A1	NODC Distance Measurement Type Code
Distance to Birds	45	3	bytes	I3	Tens of meters
Direction of Flight	48	2	bytes	I2	00-35 Tens of degrees
Association	50	1	bytes	A1	NODC Type of Assoc Code
Linkage	51	3	bytes	I3	Sequence number of multi-species group in station
Species Number	54	2	bytes	I2	Number of species linked
Behavior	56	2	bytes	A2	NODC Behavior Code
Special Marks	58	1	bytes	A1	NODC Special Marks Code
Bird Condition	59	1	bytes	A1	NODC Bird Condition Code

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Data (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Food Source	60	1	bytes	A1	NODC Food Source Association Code
Tax Code of Food	61	10	bytes	I10	
Debris	71	1	bytes	A1	NODC Debris code
Oil	72	1	bytes	A1	NODC Oil Code
Distance from Breed Colony	73	3	bytes	I3	Nautical miles
Habitat	76	2	bytes	2A1	NODC Habitat Code, may code 2, left to right
Sequence Number	78	3	bytes	I3	Ascending numeric
Substrate	81	1	bytes	A1	NODC Substrate Code
Cover	82	1	bytes	A1	NODC Cover Code
Outside Zone	83	1	bytes	A1	NODC Outside Zone Code

d					
d					
d					
ddd	PPP		uuu		
d	d	P	P	u	u
d	d	P	P	u	u
ddd	PPP		uuu	uuu	
	P			u	
	P		u	u	
	P		uuu	uuu	

DATA PROJECTS GROUP
333 Pastore Hall
University of R.I.
Kingston, RI 02881

This Data Documentation Form (DDF) is composed of two parts. The first contains tape specifications and record format descriptions provided by the originator cited in Section A.1. The data have subsequently been validated by the Data Projects Group. Range and relational checks, code group checks, plus relocation of fields, unit conversions, and final tape recording techniques used in this process are given in the second part. Resolution of data errors found during this process has been made through contact with the originator.

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(1972)

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

F033

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 L HUNT, JR. DEPT OF ECOLOGY - EVOLUTIONARY BIOLOGY UCI IRVINE, CA 92717			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT UCI 803 TR 4181 UCI 806 TR 4184	
4. PLATFORM NAME(S) DISCOVERER	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) RESEARCH SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
		FROM: MO/PAY/YR	TO: MO/DAY/YR
		8/10/78	8/15/78
		9/22/78	9/27/78
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. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) George L. Hunt, Jr. UC-Irvine IRVINE, CA 92717 714-833-6322			

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	Degrees, minutes, seconds	Taken from ship smooth plot.		
Time	GMT	Ship clock		
Speed, course	knots, $1/10^{\circ}$	Ship log		
Depth to bottom	Whole meters	ship log		
Surface temp	$1/10^{\circ}C$	ship log		
Salinity	$1/10^{th}$	"		
dry bulb temp	$1/10^{\circ}C$	"		
bars pressure	millibars	"		
wind Dir	ten's degrees	"		
speed	knots	"		
Sea state	Code	"		
swell dir	$1/10$ degrees	"		
height	meters	"		
visibility	code	"		
weather	code	"		
distance to shore	naut. miles	Calculated from smooth plot		
distance to shelf break	"	"		
AGE	CODES	made by observer		
SEX		"		
COLOR		"		
PLUMAGE		"		

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
# individuals meters to birds flight dir. linkage, # species behavior bird condition food source debris	whole #s 100, 200, 300 m. tens degrees whole #s code codes	made by observer Calculated by observer " " " Calculated by coder from raw data estimated by observer " "		

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
 AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

4 Record types
Location (1)
Environment (2)
Test (4)
Data (5)
Differentiated by byte 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Files organized by station number, Record types and Reference numbers.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER *Gren Bush*
 ADDRESS *UC Irvine, Irvine Calif 92717*

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"/> _____</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><i>RU 83 033 UCI 803</i> <i>UCI 806</i> <i>Ship Census</i> <i>4/25-78 9/27/78</i> <i>GEORGE HUNT</i></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><i>80/record 4000</i></p> <p>13. LENGTH OF BYTES IN BITS</p>

RECORD FORMAT DESCRIPTION

CORD NAME Location 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	821803, 421806	
Record Type	10	1	Bytes	I1	Always '1'	
Station Number	11	5	Bytes	A5	12--2D ---	
Latitude, Degrees	16	2	Bytes	I2	Starting Position	
Minutes	18	2	Bytes	I2		
Seconds	20	2	Bytes	I2		
Hemisphere	22	1	Bytes	A1		'N' or 'S'
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 } Starting Date/Time GMT	
Month	33	2	Bytes	I2		1-12
Day	35	2	Bytes	I2		1-31
Hour	37	2	Bytes	I2		0-23
Minute	39	2	Bytes	I2		0-59
Latitude, Degrees	41	2	Bytes	I2	Ending Position	
Minutes	43	2	Bytes	I2		
Seconds	45	2	Bytes	I2		
Hemisphere	47	1	Bytes	A1		'N' or 'S'

5/5/77

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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	1
Sampling Technique Code	70	1	Bytes	A2	3
Ship Activity Code	71	1	Bytes	A1	3
Photo(s) Taken	72	1	Bytes	A1	Use collection code (4)
Width of Transect	73	1	Bytes	A1	Use Zone Scheme Code
Angle of View Code	74	1	Bytes	A1	
Observation Conditions Code	75	1	Bytes	A1	
Distance Made Good	76	4	Bytes	I4	Kilometers to tenths
Watch Type Code	80	1	Bytes	A1	Use Watch Type Illustration
Transect Width	81	3	Bytes	3I	Tens of meters

RECORD FORMAT DESCRIPTION

2-20-76

RECORD NAME Environmental 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	UL1803, UL1806
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- -line	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	59	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

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	Tens of foot-candles
Moon Phase Code	68	1	Bytes	A1	
Tide Height Code	69	1	Bytes	A1	
Rising or Falling Tide	70	1	Bytes	A1	'+' = rising, '-' = falling, '0' = slack water
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.
Blank	81	3	Bytes	3X	

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	<i>UCI 803, UCI 806</i>
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
Blank	81	3	Bytes	3X	

RECORD FORMAT DESCRIPTION

2-20-76

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	ULI 803, ULI 804
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	2.4
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)
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

3-2-77 10

RECORD NAME Data Ship and Aircraft Census (Continued)

14. 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	
Oris Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73	3	Bytes	I3	In nautical miles
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
Substrate Code	81	1	Bytes	A1	
Cover Code	82	1	Bytes	A1	
Outside Zone Code	83	1	Bytes	A1	

C. DATA FORMAT

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

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

Record Type is coded in column 10 of each record as follows:

- 1 - Location
- 2 - Environment
- 3 - Ice Record
- 4 - Text Comments
- 5 - Data Observations

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File is organized by Station Number in Columns 11-15 of each record. Each Station contains one Type 1 card; one Type 2 card; zero to several Type 3 cards; and one to several Type 5 cards (one for each observation at that station).

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Data Projects Group (401)792-2320
ADDRESS 333 Pastore Hall, University of Rhode Island, Kingston, RI 02881

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 checked="" type="checkbox"/> 1/2 inch
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 IBM 3420 <input checked="" type="checkbox"/> Tape Mark
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) UCI 803 AND UCI 806 ON TAPE UCI 78 UCI 801 UCI 806 ← UCI 802 UCI 808 → UCI 803 UCI 804
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"/> _____	
	13. LENGTH OF BYTES IN BITS 8

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Location Record

RECORD NAME

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 1
Station No	11	5	bytes	A5	
Latitude -					Starting Position
Degrees	16	2	bytes	I2	33-73 degrees
Minutes	18	2	bytes	I2	0-59 minutes
Seconds	20	2	bytes	I2	0-59 seconds
Hemisphere	22	1	bytes	A1	N hemisphere
Longitude -					Starting Position
Degrees	23	3	bytes	I3	118-180 degrees
Minutes	26	2	bytes	I2	0-59 minutes
Seconds	28	2	bytes	I2	0-59 seconds
Hemisphere	30	1	bytes	A1	W hemisphere
Date -					Starting date GMT
Year	31	2	bytes	I2	Last 2 digits
Month	33	2	bytes	I2	1-12 months
Day	35	2	bytes	I2	1-31 days
Time -					Starting time GMT
Hours	37	2	bytes	I2	0-23 hours
Minutes	39	2	bytes	I2	0-59 minutes
Latitude -					Ending Position
Degrees	41	2	bytes	I2	33-73 degrees
Minutes	43	2	bytes	I2	0-59 minutes
Seconds	45	2	bytes	I2	0-59 seconds
Hemisphere	47	1	bytes	A1	N hemisphere
Longitude -					Ending Position
Degrees	48	3	bytes	I3	118-180 degrees
Minutes	51	2	bytes	I2	0-59 minutes
Seconds	53	2	bytes	I2	0-59 seconds
Hemisphere	55	1	bytes	A1	W hemisphere
Elapsed Time	56	2	bytes	I2	0-30 whole minutes
Time Zone -					
Sign	58	1	bytes	A1	+ or - relative to GMT
Number	59	2	bytes	I2	Zone 01-12
Ships Speed	61	3	bytes	I3	Whole knots
Course Headings	64	2	bytes	I2	0-35 tens of degrees true

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Location (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Height of Eyes Above Sea	66	3	bytes	I3	Whole meters
Platform Type	69	1	bytes	A1	NODC Platform Type Code
Sampling Technique	70	1	bytes	A2	NODC Sampling Technique Code
Ship Activity	71	1	bytes	A1	NODC Ship Activity Code
Photos Taken	72	1	bytes	A1	NODC Collection Code
Width of Transect	73	1	bytes	A1	NODC Zone Scheme Code
Angle of View	74	1	bytes	A1	NODC Angle of View Code
Observation Conditions	75	1	bytes	A1	NODC Observation Conditions Code
Distance Made Good	76	4	bytes	I4	Kilometers to tenths
Watch Type	80	1	bytes	A1	
Transect Width	81	3	bytes	I3	Tens of meters

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Environment Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 2
Station No	11	5	bytes	A5	
Bottom Depth	16	4	bytes	I4	Whole meters
Thermocline Depth	20	3	bytes	I3	0-100 meters
Sea Surface Temperature	23	4	bytes	I4	-3 to +10 degrees to tenths Celsius
Salinity	27	3	bytes	I3	20 ‰ to 34 ‰ parts per thousand to tenths
Dry Bulb Temp	30	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Wet Bulb Temp	34	4	bytes	I4	-20 to +30 degrees to tenths Celsius
Humidity	38	2	bytes	I2	00-99 percent
Barometric Pressure	40	4	bytes	I4	0.9600-1.0400 bars to tenths of millibars
Barometric Trend	44	1	bytes	A1	+ rising, - falling, 0 steady
Wind Direction	45	2	bytes	I2	NODC Direction Code (WMO Codes 0885 & 0877)
Wind Speed	47	2	bytes	I2	0-50 knots
Sea State	49	1	bytes	A1	WMO Code 3700
Swell Direction	50	2	bytes	I2	NODC Direction Code
Swell Height	52	3	bytes	I3	0-07.6 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

RECORD FORMAT DESCRIPTION

RECORD NAME: Ship and Aircraft Census Data - Environment (continued)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Water Color	59	2	bytes	A2	NODC Water Color Code (Forel-Ule scale)
Visibility	61	1	bytes	A1	WMO Code 4300
Sun Direction	62	1	bytes	A1	NODC Compass Direction Code
Glare Intensity	63	1	bytes	A1	NODC Glare Intensity Code
Glare Area	64	1	bytes	A1	NODC Glare Area Code
Light Level	65	3	bytes	I3	Tens of Foot-candles
Moon Phase	68	1	bytes	A1	NODC Moon Phase Code
Tide Height	69	1	bytes	A1	NODC Tide Height Code
Tide Cycle	70	1	bytes	A1	+ rising, - falling, 0 slack water
Distance to Shore	71	4	bytes	I4	Whole nautical miles
Distance to Shelf break	75	3	bytes	I3	Whole nautical miles
SECCHI Depth	78	2	bytes	I2	Whole meters
Debris Code	80	1	bytes	A1	NODC Debris Code (for non-bird associated debris)
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Ice Record

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 ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 3
Station No	11	5	bytes	A5	
Ice In Transect					
Cover	16	1	bytes	A1	WMO Code 0547
Type	17	1	bytes	A1	WMO Code 3763
Form	18	1	bytes	A1	WMO Code 1147
Relief	19	1	bytes	A1	WMO Code 3962
Thick	20	1	bytes	A1	WMO Code 4006
Melt	21	1	bytes	A1	WMO Code 2650
Ice Outside Transect					
Cover	22	1	bytes	A1	WMO Code 0547
Type	23	1	bytes	A1	WMO Code 3763
Form	24	1	bytes	A1	WMO Code 1147
Relief	25	1	bytes	A1	WMO Code 3962
Thick	26	1	bytes	A1	WMO Code 4006
Melt	27	1	bytes	A1	WMO Code 2650
Open Water					
Type	28	1	bytes	A1	WMO Code 4552
Direction	29	1	bytes	A1	WMO Code 0739
Distance	30	1	bytes	A1	WMO Code 3600
Lead/Polynya	31	1	bytes	A1	WMO Code 4300
Visible Ice					
Description	32	1	bytes	A1	WMO Code 0663
Direction	33	1	bytes	A1	WMO Code 0739
Distance	34	1	bytes	A1	WMO Code 3600
Miscellaneous					
Arctic Cod Excess	35	1	bytes	A1	NODC Collection Code
Sediment	36	1	bytes	A1	NODC Collection Code
Ice Algae	37	1	bytes	A1	NODC Collection Code
Mammal Trace	38	1	bytes	A1	NODC Mammal Trace Code
Other Features	39	1	bytes	A1	NODC Mammal Trace Code
Ice Pattern					
In Transect	40	1	bytes	A1	1-Regular, 2-Clumped
Outside Trans	41	1	bytes	A1	1-Regular, 2-Clumped

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Ice (continued)

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Ship in Lead or Polynya Location	42	1	bytes	A1	1-Lead, 2-Polynya, 3-Indeterminable
Width	43	1	bytes	A1	WMO Code 4300
Distance	44	1	bytes	A1	WMO Code 4300
Time of Ice Conditions	45	2	bytes	I2	Whole minutes from start time to observation time, must increase for a station
Water vs Land % Covered	47	2	bytes	I2	00-99 Percent
Pond Size	49	1	bytes	A1	NODC Size of Pond Code
Open Water Ice Description Cover	50	1	bytes	A1	WMO Code 1147
	51	1	bytes	A1	WMO Code 0547
Blank	52	26	bytes	X26	
Sequence Number	78	3	bytes	I3	Ascending numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Text Record

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 4
Station No	11	5	bytes	'A5	
Text	16	62	bytes	A62	
Sequence Number	78	3	bytes	I3	Ascending Numeric
Blank	81	3	bytes	X3	

RECORD FORMAT DESCRIPTION

Ship and Aircraft Census Data - Data Record

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	A3	Always 033
File ID	4	6	bytes	A6	Identical for all records
Record Type	10	1	bytes	I1	Always 5
Station No	11	5	bytes	A5	
Time into Transect	16	2	bytes	I2	Whole minutes from start time to observation time
Taxonomic Code	18	12	bytes	I12	Class 88-92, ends with paired trailing blanks
Species Group	30	2	bytes	I2	
Age	32	1	bytes	A1	NODC Age Class Group Code
Sex	33	1	bytes	A1	NODC Sex Code
Color	34	1	bytes	A1	NODC Color Phase Code
Plumage	35	1	bytes	A1	NODC Plumage Code
Molt	36	1	bytes	A1	NODC Molt Code
Number of Individuals	37	5	bytes	I5	Whole number, must not be omitted
Counting Method	42	1	bytes	A1	NODC Counting Method Code
Reliability	43	1	bytes	A1	NODC Reliability Code
Distance Measure Type	44	1	bytes	A1	NODC Distance Measurement Type Code
Distance to Birds	45	3	bytes	I3	Tens of meters
Direction of Flight	48	2	bytes	I2	00-35 Tens of degrees
Association	50	1	bytes	A1	NODC Type of Assoc Code
Linkage	51	3	bytes	I3	Sequence number of multi-species group in station
Species Number	54	2	bytes	I2	Number of species linked
Behavior	56	2	bytes	A2	NODC Behavior Code
Special Marks	58	1	bytes	A1	NODC Special Marks Code
Bird Condition	59	1	bytes	A1	NODC Bird Condition Code

RECORD FORMAT DESCRIPTION

RECORD NAME Ship and Aircraft Census Data - Data (continued)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Food Source	60	1	bytes	A1	NODC Food Source Association Code
Tax Code of Food	61	10	bytes	I10	
Debris	71	1	bytes	A1	NODC Debris code
Oil	72	1	bytes	A1	NODC Oil Code
Distance from Breed Colony	73	3	bytes	I3	Nautical miles
Habitat	76	2	bytes	2A1	NODC Habitat Code, may code 2, left to right
Sequence Number	78	3	bytes	I3	Ascending numeric
Substrate	81	1	bytes	A1	NODC Substrate Code
Cover	82	1	bytes	A1	NODC Cover Code
Outside Zone	83	1	bytes	A1	NODC Outside Zone Code

Error Correction Documentation Form

DATE: 7-6-79

TO:

FROM: D781

SUBJECT: Error Correction in Processing of Data Set - Accession # 79-0210

- 1) File Type: F033
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR4179 - 4185

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
① See correction sheet supplied by originator	✓ all corrections made

II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
--------------	-------------------------------------

III. Processor Name: Susan B. Kerig

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO: 79-0210

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BKSIZE	RECFM	REMARKS
ORIGINATOR	UCIT80	NL	83	3735	FB	
DUPLICATE	011985	NL	83	4565	FB	
REFORMATTED						
FIRST USER	15281	SL				Wayolisk 2nd file on tape
FINAL USER						

Data Set Profile Sheet

Accession # 79-0210

Step	Completion Date	Init.	Tape #, # of Files	BLKSIZE, LRECL
Originator Tape #	7-5-79	JM	UCI780 1	3735 83
QUADI Duplicate Tape #	7-6-79	JM	011985 1	4565 83
DDF Evaluation				
Quality Review				
Preliminary Data Sort				
Preliminary Check				
First User Tape #	9/26/80	SX	15281	
Final User Tape #				
Final Check	9/22/80	SX		
0. APIS Inventory				
1. DIP Inventory				
12. Data Set 'Finalized'				

Orig. to F. Cava
REV 053

d					
d					
d					
dddd	PPP			999	
d d	P P			9 9	
d d	P P			9 9	
ddd	PPP			9999	
	P				9
	P			9	9
	P			999	

DATA PROJECTS GROUP
 333 Pastore Hall
 University of R.I.
 Kingston, RI 02881
 (401) 792-2320

Copy

February 21, 1980

Mr. John Audet
 NODC/OCSEAP Data Coordinator
 NODC Pape Building
 2001 Wisconsin Avenue
 Washington, D.C. 20235

Dear Jim,

Enclosed is a report of corrections to OCSEAP data, file type 033, for the following field operations:

UCI801	<i>TR 4179</i>
UCI802	<i>4180</i>
UCI803	<i>4181</i>
UCI804	<i>4182</i>
UCI805	<i>4183</i>
UCI806	<i>4184</i>
UCI808	<i>4185</i>

These corrections were supplied by Dr. George Hunt in order to resolve problems uncovered by NODC'S check programs. I believe that all of the errors have been resolved. If there are any further problems, please contact me.

Sincerely,

Pat Ordzie
 Patricia Ordzie

cc: Francesca Cava
 George Hunt
 Harold Petersen
 William Johnson

Corrections Made to OCSEAP Data, File Type 033,
 Subsequent to Submission to NODC
 Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UC1801 *TR 4179*

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
S1006	2		SLF	75-77	0	OK
S1011	1		HGT	66-68	103	13
S1019	2		SLF	75-77	0	OK
S1052	2		SLF	75-77	0	OK
S1062	5	014	LNK	51-53	000	blank
S1083	2		SLF	75-77	0	OK
S1087	2		DBT	16-19	1	OK
S1095	2		SLF	75-77	0	OK
S1149	2		SLF	75-77	0	OK
S1172	5	009	TAX	18-27	9129010102	9129011102
S1349	1		HGT	66-68	13_	_13
S1362	1		LTD	41-47	blank	blank N/A
S1362	1		LNG	48-55	blank	blank N/A
S1373	1		HGT	66-68	14	13
S1395	2		SLF	75-77	0	OK

Corrections Made to OCSEAP Data, File Type 033,
 Subsequent to Submission to NODC
 Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UCI802 TR 4180

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
TT002	2		SLF	75-77	0	OK
TT031	2		SLF	75-77	0	OK
TT044	2		SLF	75-77	0	OK
TT152	2		SLF	75-77	0	OK
TT192	2		SHR	71-74	0	1
TT237	5	012	TAX	18-27	9191120118	9112011802
TT246	5	011	TAX	18-27	9179010302	9129010302
TT246	5	012	TAX	18-27	9179010302	9129010302
TT295	5	047	NBR	54-55	32	blank
TT295	5	047	BEH	56-57	blank	32
TT323	2		SLF	75-77	0	OK
TT334	2		SLF	75-77	0	OK
TT342	2		SLF	75-77	0	OK
TT357	2		SLF	75-77	0	OK

Corrections Made to OCSSEAP Data, File Type 033,
 Subsequent to Submission to NODC
 Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UCI803 *TR4181*

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR.	COLUMNS	FROM	TO
1D018	5	007	LNK	51-53	01	001
1D020	2		CLT	57-57	4	blank
1D020	2		CLA	58-58	1	blank
1D059	5	004	LNK	51-53	01	001
1D090	5	012	NBR	54-55	20	blank
1D090	5	012	BEH	56-67	blank	20
1D102	2		SLF	75-77	0	OK
1D103	5	014	TAX	18-27	9129011802	9129011302
1D115	5	017	CND	59-59	5	blank
1D115	5	017	FDS	60-60	blank	5
1D118	5	023	LNK	51-53	blank	001
1D118	5	023	NSP	54-55	blank	2
1D118	5	027	NSP	54-55	12	blank
1D129	5	021	SMK	58-58	5	blank
1D129	5	021	FDS	60-60	blank	5
1D129	5	024	NSP	54-55	2	2
1D129	5	041	NSP	54-55	2	2
1D129	5	041	SMK	58-58	5	blank
1D129	5	041	FDS	60-60	blank	5
1D157	5	020	TAX	18-27	9125010101	9128010101
1D165	2		SLF	75-77	0	OK
1D192	5	002	TAX	18-27	9129020301	9128020301

Corrections Made to OCSEAP Data, File Type 033,
Subsequent to Submission to NODC
Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UCI803 *TR 4181*

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
1D203	5	002	SMK	58-58	2	blank
1D221	5	020	TAX	18-27	9109020204	9109020400
1D221	5	021	TAX	18-27	9109020204	9109020400
1D248	5	001	LNK	51-53	blank	001
1D248	5	001	NSP	54-55	blank	3
1D248	5	004	NSP	54-55	13	blank
1D259	5	003	DIR	48-49	0	00
1D262	5	014	LNK	51-53	02	002

Corrections Made to OCSFAP Data, File Type 033,
 Subsequent to Submission to NODC
 Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UCI804 **TR4182**

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
TT003	5	011	TAX	18-27	9129611401	9129011401
TT007	2		SLF	75-77	0	OK
TT011	2		SLF	75-77	0	OK
TT021	1		LTD	41-47	353705N	553705N
TT135	2		SLF	75-77	0	OK
TT148	2		SUN	62-62	7	blank
TT149	2		SLF	75-77	0	OK
TT62A	1		LTD	41-47	blank	OK N/A
TT62A	1		LNG	48-55	blank	OK N/A

Corrections Made to OCSEAP Data, File Type 033,
Subsequent to Submission to NODC
Reported February, 1980

Data from RU#083 Processed by RU#527

Original File ID UCI805 *TR 4183*

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
TT026	5	006	TAX	18-27	9129020408	9109020408
TT041	5	002	TAX	18-27	9128101102	9128010101
TT042	2		BDP	16-19	4	64
TT108	5	001	NSP	54-55	20	blank
TT108	5	001	BEH	56-57	blank	20

Corrections Made to OCSEAP Data, File Type 033,
 Subsequent to Submission to NODC
 Reported February, 1980

Data from RU#083

Processed by RU#527

Original File ID UCI806 7K 4184

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
2D001	1		HGT	66-68	614	14
2D001	2		CLA	58-58	7	blank
2D001	2		VIS	61-61	blank	7
2D018	1		LTD	41-47	670600N	570600N
2D075	5	023	SPG	28-29	01	blank
2D111	1		LTD	41-47	375604N	575604N
2D217	2		SLF	75-77	0	OK
2D278	5	006	TAX	18-27	9126011401	9129011401
2D278	5	007	TAX	18-27	9126011401	9129011401
2D278	5	008	TAX	18-27	9126011401	9129011401
2D278	5	009	TAX	18-27	9126011401	9129011401
2D278	5	010	TAX	18-27	9126011401	9129011401
2D017	5	004	LNK	51-53	010	001
2D047	5	005	LNK	51-53	010	001

Corrections Made to OCSEAP Data, File Type 033,
Subsequent to Submission to NODC
Reported February, 1980

Data from RU#083

Processed by RU#527 .

Original File ID UCI808 **7K4185**

STATION NUMBER	CARD TYPE	SEQUENCE NUMBER	FIELD ABBR	COLUMNS	FROM	TO
H800A						
to	1		TRN	81-83	50	OK
H8026						
H800A	2		BDP	16-19	4	64



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235
National Oceanographic Data Center

October 9, 1979

D781/JJA

Mr. Bill Johnson
Data Projects Group
University of Rhode Island
Kingston, R.I. 02881

Dear Bill:

I am enclosing the NODC check run results for file type 033 data from George Hunt (RU083). The checking concerns the following data sets:

UCI801 - NODC track 4179
UCI802 - NODC track 4180
UCI803 - NODC track 4181
UCI804 - NODC track 4182
UCI805 - NODC track 4183
UCI806 - NODC track 4184
UCI808 - NODC track 4185

Some entries are flagged because they fall outside expected ranges but are probably good values. This includes zero values for distance to shelf break and distance to nearest shoreline and depths to bottom shallower than 10 meters. Other values may need corrections as noted below.

UCI801 (4179) -

Multispecies linkage for sta. S1052 entered as 000. Missing end latitude/longitude for sta. S1362. One value of height above sea surface entered as 130 vs. 13 meters for others (data shift?).

UCI802 (4180) -

No. species participating - one entry of 32 vs. 2 or 3 (data shift?).

UCI803 (4181) -

Direction of flight - one value reported with trailing blank - may be ok or may be shifted. Multispecies Linkage - several values with trailing blanks - resulting in values of 20 rather than 2. No. species participating - same problem as above.

UCI804 (4182) -

Latitude for sta. TT021 entered as 35° - should be 55°? Missing end latitude/longitude for sta. TT62A.



UCI805 (4183) -

No. species participating - range of 2-20 with average 2.5 - may be ok.

UCI806 (4184) -

Latitude for sta. 2D111 entered as 37°N - should be 57°N? Range of end latitudes indicates entries of 67°N - should probably be 57°N
Multispecies linkage - Two values entered with trailing blanks, which may result in incorrect values.

UCI808 (4185) -

Transit widths of 50 meters flagged - values are below expected range but probably ok.

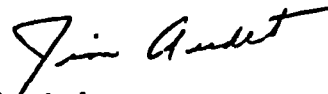
Some entries for number of individuals (record type 5) appear to be quite high when compared with the averages. However, there is no trailing blank problem so these values are probably correct.

There are some unidentified taxonomic codes for these data. File IDs and station numbers are annotated for most of these codes.

We will place these data sets 'in hold' until you are able to resolve the above problems with the investigator.

Thank you for your cooperation.

Sincerely yours,



Jim Audet

NODC OCSEAP Data Coordinator

Enclosure

cc: F. Cava (w/encl.)
W. Fischer

UMSL SYSTEMS SUPPORT UTILITIES - NON-STANDARD LABEL TAPE MAP

VOLUME=SER=NLTP6

DATE 79-176 TIME

01 RECFM=F LRECL= ? BLKSIZE 3735 DEN=3
DATA SET CONTAINS 502 BLOCKS

END OF UTILITY - TAPE IS MAPPED


```

d
d
d
, dddd      PPP      sss
d  d      P  P      s  s
d  d      P  P      s  s
ddd      P P P P      s s s s
          P           s
          P           s
          P           s s s

```

DATA PROJECTS GROUP
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University of R.I.
Kingston, RI 02881

This Data Documentation Form (DDF) is composed of two parts. The first contains tape specifications and record format descriptions provided by the originator cited in Section A.1. The data have subsequently been validated by the Data Projects Group. Range and relational checks, code group checks, plus relocation of fields, unit conversions, and final tape recording techniques used in this process are given in the second part. Resolution of data errors found during this process has been made through contact with the originator.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7900210	F033	TR4185	0081	31W9	3191	1978/04/30	UCI808	309531
7900210	F033	TR4181	0081	31W9	31DS	1978/08/10	UCI803	309527
7900210	F033	TR4184	0081	31W9	31DS	1978/09/22	UCI806	309530
7900210	F033	TR4179	0081	31W9	31SU	1978/04/25	UCI801	309525
7900210	F033	TR4180	0081	31W9	31TT	1978/05/04	UCI802	309526
7900210	F033	TR4182	0081	31W9	31TT	1978/06/18	UCI804	309528
7900210	F033	TR4183	0081	31W9	31TT	1978/07/03	UCI805	309529

(7 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7900210	F033	TR4185	3191	24	200	78/04/30	78/05/02
7900210	F033	TR4181	31DS	295	4377	78/08/10	78/09/12
7900210	F033	TR4184	31DS	299	3913	78/09/22	78/09/27
7900210	F033	TR4179	31SU	415	5105	78/04/25	78/05/02
7900210	F033	TR4180	31TT	373	5965	78/05/04	78/06/12
7900210	F033	TR4182	31TT	154	1973	78/06/18	78/06/29
7900210	F033	TR4183	31TT	109	1052	78/07/03	78/07/10

(7 rows affected)

RECORD NO. 1

-----022W29CTD2	01	642570N1651860W W29	2278	22421	01	10	9930	-10	4147	528PLESSEY	9040	23	21	-----	
-----022W29CTD3	01	0-16873116525092	10-16873116525092	20-16863118125102	30-16873119625112	40-16863121425132	1	-----						1	-----
-----022W29CTD3	01	50-16863122125132	60-16873123125142	70-16873123525142	80-16883124625152	90-16883125025162	2	-----						2	-----
-----022W29CTD3	01	100-16873124725152	110-16873125625162	120-16883125325162	130-16853125325162	140-16863125625162	3	-----						3	-----
-----022W29CTD3	01	150-16903126325172	160-16873125825162	170-16883126125162	180-16873125825162	190-16883125825162	4	-----						4	-----
-----022W29CTD3	01	200-16883126725172	210-16863126525172				5	-----						5	-----

RECORD NO. 2

-----022W29CTD2	02	6422 0N1651620W W29	3078	22422	91	10	9940	-10	4147	528PLESSEY	9040	31	29	-----	
-----022W29CTD3	02	0-16653077324772	10-16653079124782	20-16613080324792	30-16663081024802	40-16653082024812	1	-----						1	-----
-----022W29CTD3	02	50-16663082924812	60-16643083924822	70-16643084724832	80-16653089024862	90-16653090424882	2	-----						2	-----
-----022W29CTD3	02	100-16673090824892	110-16663091224882	120-16683092924902	130-16683094224912	140-16683096824932	3	-----						3	-----
-----022W29CTD3	02	150-16713102624972	160-16703107725022	170-16773113425062	180-16793120325122	190-16833124125152	4	-----						4	-----
-----022W29CTD3	02	200-16843126925172	210-16883130225202	220-16883133325222	230-16893134225232	240-16903134225232	5	-----						5	-----
-----022W29CTD3	02	250-16873134625232	260-16913134725232	270-16903134825242	280-16893134425232	290-16893135025242	6	-----						6	-----

NSDCHEK *** NON-STANDARD DATA FIELD CHECKING PROGRAM
 THIS IS 01/11/79 VERSION WITH FULL CODE CHECKING

USER'S INPUT REQUESTS FOLLOW:
 LRECL HAS BEEN SPECIFIED AS 60
 STATION HEADER RECORD SPECIFIED AS 2
 RECORD TYPES FLAGGED FOR RETRIEVAL ARE - 123
 STATION STARTS IN POSITION 11 FOR 5 BYTES
 STATION WILL APPEAR ON RECORD TYPES : 123
 RECORD TYPE WILL BE TAKEN FROM COLUMN 10 OF THE INPUT RECORDS
 FILETYPE IS 005

NO OBVIOUS ERRORS FOUND IN TABLE GENERATION PHASE - SUCCESSFUL EXECUTION EXPECTED

005TR41861 RSTWORK DONE BY TAMU FOR SPR-
 ??????

FIRST FILE ID

005TR41861 RSTWORK DONE BY TAMU FOR SPR-
 ??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER
 THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERIC/M=MANDATORY NUMERIC/Z=NO CHECKING

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED LOW HIGH	ACTUAL RANGE LOWEST HIGHEST	MEAN	S. DEV	COUNT	FP	FP=1	>=1
Z	1	11	5	METER NUMBER					4			
N	1	16	1	SEQUENCE	NO RANGE CHECKING	1 4	2.50	1.11	4	4	0	0
Z	2	11	5	METER NUMBER					1			
M	2	16	2	LAT DEG	0 0	89 28 28	28.00	00	1	1	0	0
M	2	18	2	LAT MIN	0 0	59 46 46	46.00	00	1	1	0	0
N	2	20	2	LAT SEC	0 0	59 57 57	57.00	00	1	1	0	0
C	2	22	1	Q500LAT HEM					1			
M	2	23	3	LON DEG	0 0	179 95 95	95.00	00	1	1	0	0
M	2	26	2	LON MIN	0 0	59 18 18	18.00	00	1	1	0	0
N	2	28	2	LON SEC	0 0	59 47 47	47.00	00	1	1	0	0
C	2	30	1	Q501LON HEM					1			
N	2	31	4	SENSOR DEPTH METERS TO .1	10 9999	20 20	20.00	00	1	0	1	0
N	2	35	4	WATER DEPTH METERS TO .1	100 9999	190 190	190.00	00	1	0	1	0
Z	2	39	4	SENSOR SERIAL NUMBER					NO VALUES FOUND FOR THIS PARAMETER			
B	2	43	18						1			
Z	3	11	5	METER NUMBER					4607			
M	3	16	2	YEAR	NO RANGE CHECKING	78 79	78.22	1.17	4607	4607	0	0
M	3	18	2	MONTH	1 1	12 12	8.90	4.36	4607	4607	0	0
M	3	20	2	DAY	1 1	31 31	16.02	8.72	4607	4607	0	0
M	3	22	4	HOUR TO .01	0 0	2399 0 2350	1175.02	692.61	4607	4607	0	0
N	3	26	3	DIRECTION-WHOLE DEG FROM T NRTH	0 0	359 5 353	213.76	46.53	4606	4606	0	0
N	3	29	4	CURRENT VELOCITY WHOLE CM/SEC	0 0	5000 0 94	36.46	16.11	4603	4603	0	0
N	3	33	3	TEMP DEG C TO .1	20 310	NO VALUES FOUND FOR THIS PARAMETER						
N	3	36	4	PRESSURE KG/SQ CM TO .01	10 9999	NO VALUES FOUND FOR THIS PARAMETER						
N	3	40	4	CONDUCTIVITY MMHNS/CM TO .01	1500 5500	NO VALUES FOUND FOR THIS PARAMETER						
N	3	44	2	INCLINOMETER TILT WHOLE DEG	0 18	NO VALUES FOUND FOR THIS PARAMETER						
N	3	46	3	WIND DIREC-TRUE DIREC WHOLE DEG	0 359	NO VALUES FOUND FOR THIS PARAMETER						
N	3	49	4	WIND SPEED CM/SEC	0 3200	NO VALUES FOUND FOR THIS PARAMETER						
N	3	53	3	SEA DIREC TRUE DIREC	0 359	NO VALUES FOUND FOR THIS PARAMETER						
N	3	56	3	SEA HEIGHT DOMINANT WAVES CM	0 900	NO VALUES FOUND FOR THIS PARAMETER						
N	3	59	2	SEA PERIOD OF DOM WAVES IN SEC	1 99	NO VALUES FOUND FOR THIS PARAMETER						

 005TR41871 RSBIWQRK DONE BY TAMU FOR SPR-
 ??????
 FILE ID HAS CHANGED
 ??????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER
 THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/R=BLANK/T=TAXONOMIC CODE/N=NUMERIC/M=MANDATORY NUMERIC/Z=NO CHECKING

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED LOW HIGH	ACTUAL RANGE LOWEST HIGHEST	MEAN	S. DEV	COUNT	FP	FP-1	>-1
Z	1	11	5	METER NUMBER					4			
N	1	16	1	SEQUENCE	NO RANGE CHECKING	1 4	2.50	1.11	4	4	0	0
Z	2	11	5	METER NUMBER					1			
M	2	16	2	LAT DEG	0	89	28.00	00	1	1	0	0
M	2	18	2	LAT MIN	0	59	46.00	00	1	1	0	0
N	2	20	2	LAT SEC	0	59	57.00	00	1	1	0	0
C	2	22	1	Q500LAT HEM					1			
M	2	23	3	LON DEG	0	179	95.00	00	1	1	0	0
M	2	26	2	LON MIN	0	59	18.00	00	1	1	0	0
N	2	28	2	LON SEC	0	59	47.00	00	1	1	0	0
C	2	30	1	Q501LON HEM					1			
N	2	31	4	SENSOR DEPTH METERS TO .1	10	9999	170.00	00	1	0	1	0
N	2	35	4	WATER DEPTH METERS TO .1	100	9999	190.00	00	1	0	1	0
Z	2	39	4	SENSOR SERIAL NUMBER			NO VALUES FOUND FOR THIS PARAMETER					
B	2	43	18						1			
Z	3	11	5	METER NUMBER					4607			
M	3	16	2	YEAR	NO RANGE CHECKING	78 79	78.22	1.17	4607	4607	0	0
M	3	18	2	MONTH	1	12	8.90	4.36	4607	4607	0	0
M	3	20	2	DAY	1	31	16.02	8.72	4607	4607	0	0
M	3	22	4	HOUR TO .01	0	2399	1174.81	692.62	4607	4607	0	0
N	3	26	3	DIRECTION-WHOLE DEG FROM T NRTH	0	359	207.36	78.51	4606	4606	0	0
N	3	29	4	CURRENT VELOCITY WHOLE CM/SEC	0	5000	14.52	9.37	4603	4603	0	0
N	3	33	3	TEMP DEG C TO .1	-20	310	NO VALUES FOUND FOR THIS PARAMETER					
N	3	36	4	PRESSURE KG/SQ CM TO .01	10	9999	NO VALUES FOUND FOR THIS PARAMETER					
N	3	40	4	CONDUCTIVITY MMHDS/CM TO .01	1500	5500	NO VALUES FOUND FOR THIS PARAMETER					
N	3	44	2	INCLINOMETER TILT WHOLE DEG	0	18	NO VALUES FOUND FOR THIS PARAMETER					
N	3	46	3	WIND DIREC-TRUE DIREC WHOLE DEG	0	359	NO VALUES FOUND FOR THIS PARAMETER					
N	3	49	4	WIND SPEED CM/SEC	0	3200	NO VALUES FOUND FOR THIS PARAMETER					
N	3	53	3	SEA DIREC TRUE DIREC	0	359	NO VALUES FOUND FOR THIS PARAMETER					
N	3	56	3	SEA HEIGHT DOMINANT WAVES CM	0	900	NO VALUES FOUND FOR THIS PARAMETER					
N	3	59	2	SEA PERIOD OF DOM WAVES IN SEC	1	99	NO VALUES FOUND FOR THIS PARAMETER					

RECORDS READ : 4612