

DDF-B:2:07

DATA DOCUMENTATION FORM

78-0704

NOAA FORM 24-13

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

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

TR3479

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			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
F033		0622-3	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
SURVEYOR	RP 4-SU-76B LEG II	PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
			760902 760902
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.	
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)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			

DATA DOCUMENTATION FORM

NOAA FORM 24-13
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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-R-7651

RECEIVED
APR 1977

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. 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 <i>John A. Wiens Zoology Department Oregon State University Corvallis, Oregon 97331</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>OCSEAP (R.L. #108)</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>(over)</i>	
4. PLATFORM NAME(S) <i>(over)</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ships</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR <i>U.S.A. U.S.A.</i>	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR <i>(over) (over)</i>
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. <i>NEGQA, NUGQA, Cook Inlet, Kodiak, & Bering Sea.</i> 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) <i>John A. Wiens</i>			

78-0516

Cruise Numbers (File Identifiers)	Platform Names (NOAA Cruise Identifiers)	Inclusive Dates for Data Collection
✓ 0522 #0 ^{TR 3251}	Surveyor RP-4-SU-75B- <i>Leg II</i>	8/11/75 to 8/29/75
✓ 0522 #1	Surveyor RP-4-SU-75B- <i>Leg II</i>	8/8/75 to 8/29/75
✓ 0531 #0 3252	Surveyor RP-4-SU-75C- <i>Leg I</i>	9/5/75 to 9/11/75
✓ 0531 #1	Surveyor RP-4-SU-75C- <i>Leg I</i>	9/4/75 to 9/12/75
✓ 0532 # (0 or 5) ^{3253 ✓3254}	Surveyor RP-4-SU-75C- <i>Leg II</i>	9/16/75 to 9/22/75
✓ 1614 #0	Discoverer RP-4-DI-76A- <i>Leg IV</i>	4/15/76 to 4/30/76
✓ 1615 #0 3255	Discoverer RP-4-DI-76A- <i>Leg V</i>	5/4/76 to 5/8/76
✓ 1616 #1	Discoverer RP-4-DI-76A- <i>Leg VI</i>	5/12/76 to 5/20/76
✓ 2614 #0	Miller Freeman RP-4-MF-76A- <i>Leg IV</i>	6/11/76 to 6/23/76
✓ 0621 #1	Surveyor RP-4-SU-76B- <i>Leg I</i>	8/17/76 to 8/19/76
✓ 0622 # (1 or 3)	Surveyor RP-4-SU-76B- <i>Leg II</i>	8/24/76 to 9/2/76
3607 # (0 or 4), 6	Moana Wave 76- <i>Leg VII</i>	10/23/76 to 11/6/76

3256 /

3257 /

3258

C. DATA FORMAT

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

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

Record Type	Byte 10	
Location	'1'	All File Types = '033' in bytes 1-3.
Environmental	'2'	
Text	'4'	
Data	'5'	

Computer used to put data on magnetic tape: Control Data Corporation 3300

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

This tape has 12 files on it, each blocked as indicated below. Each block contains fifty 80-character records. The last block of each file is filled with blanks. Each file is terminated with an end-of-file mark.

3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" 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>(over)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
	<p>12. PHYSICAL BLOCK LENGTH IN BYTES characters</p> <p>4000</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p>characters</p> <p>6</p> <p>83/4150</p>

Debris Code

blank - No information

0 - Indeterminable

1 - Wood

2 - Seaweed

3 - Fucus

4 - Foam line

5 - Offal

6 - Other ship - activity not noted

7 - Other ship - fishing

8 - Other ship - dumping

9 - None

A - Oil slick - unidentified

B - Oil slick - whale/fish

C - Oil slick - processing by-product

D - Oil slick - petroleum

E - jalsam (plastic cartons, rope, etc.)

Describe combinations in text

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)	51-53	3	Bytes	I3	Sequence number of the group within one observation time block (blank for single birds)
Number of Species Participating	54-55	2	Bytes	I2	Should equal the number of cards with the same sequence number, bytes 51-53
Behavior (Activity) Code	56-57	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	61-70	10	Bytes	I10	
Debris-Code	71	1	Bytes	A1	
Oil Code	72	1	Bytes	A1	
Distance from Nearest Breeding Colony	73-75	3	Bytes	I3	In nautical miles
Habitat Code	76-77	2	Bytes	2A1	Up to 2 different habitats reported. Code from right to left
Sequence Number	78-80	3	Bytes	I3	Ascending numeric, for sorting purposes

DATA RECORD FORMAT DESCRIPTION AND CODES

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	3	Bytes	A3	Always '033' } Always '5' } } <i>same as LOCUS CARD</i>
File Identifier	4 - 9	6	Bytes	A6	
Record Type	10	1	Bytes	I1	
Station Number	11 - 15	5	Bytes	A5	
Time	16 - 17	2	Bytes	I2	Number of minutes from starting time to observation time, in whole minutes
Taxonomic Code	18 - 27	10	Bytes	I10	
Sub Species	28 - 29	2	Bytes	I2	
Species Group	30 - 31	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	
Code	36	1	Bytes	A1	
Number of Individuals	37 - 41	5	Bytes	I5	Whole numeric
Counting Method Code	42	1	Bytes	A1	
Reliability Code	43	1	Bytes	A1	
Dist. Measurement Type Code <i>POINT FIRST SEEN CODE</i>	44	1	Bytes	A1	Z = Zone A = Actual
Distance from observation platform to birds	45 - 47	3	Bytes	I3	In tens of meters
Direction of Flight	48 - 49	2	Bytes	I2	In tens of degrees
Association code, Type of Association	50	1	Bytes	A1	

RCD TYPE = 4

RECORD FORMAT DESCRIPTION

2/20/76

CORD NAME TEXT 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 '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

CD 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	The compass direction code IN 10'S OF DEGREES TO SUN
Glare Intensity Code	63	1	Bytes	A1	
Glare Area Code	64	1	Bytes	A1	
Light Level	65-67	3	Bytes	I3 R3	IN WHOLE METERS OR 100M IN 10'S OF CANDLE'S FOOT OR ALPHA CODE
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	71-74	4	Bytes	I4	In whole nautical miles
Distance to shelf Break	75-77	3	Bytes	I3	In whole nautical miles
SECCHI Depth	78-79	2	Bytes	I2	In whole meters
Debris Code	80	1	Bytes	A1	Debris encountered but not bird associated.

RECORD NAME Environmental Ship and Aircraft Census AND CODES

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	3	Bytes	A3	Always '033'
File Identifier	4-9	6	Bytes	A6	Always '2'
Record Type	10	1	Bytes	I1	
Station Number	11-15	5	Bytes	A5	Same as on location CARD
Depth to Bottom	16-19	4	Bytes	I4	
Depth of Thermocline	20-22	3	Bytes	I3	In whole meters
Surface Temperature	23-26	4	Bytes	I4	In tenths of degree Celsius
Surface Salinity	27-29	3	Bytes	I3	Parts/thousand to tenths
Dry Bulb Temperature	30-33	4	Bytes	I4	In tenths of deg. C
Wet Bulb Temperature	34-37	4	Bytes	I4	In tenths of Deg. C.
Relative Humidity	38-39	2	Bytes	I2	Percent (00-99)
Barometric Pressure	40-43	4	Bytes	I4	In tenths of millibars
Barometric Trend	44	1	Bytes	A1	'+' = rising, '0' = steady, '-' = falling
Wind Direction	45-46	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Wind Speed	47-48	2	Bytes	I2	In whole knots
Sea State	49	1	Bytes	A1	WMO code 3700
Swell Direction	50-51	2	Bytes	I2	In tens of degrees WMO Codes 0885 and 0877
Swell Height	52-54	3	Bytes	I3	In meters to tenths
Weather	55-56	2	Bytes	A2	WMO code 4677 OR ALPHA CODE
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

SHIP NAME Location Continued Ship and Aircraft Census

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		
Longitude,					
Degrees	48-50	3	Bytes	I3	
Minutes	51-52	2	Bytes	I2	
Seconds	53-54	2	Bytes	I2	
Hemisphere	55	1	Bytes	A1	'E' or 'W'
Elapsed Time	56-57	2	Bytes	I2	Whole minutes (i.e. length of transmission)
Time Zone	58	1	Bytes	A1	Always '+' or '-' } TO GMT
Time Zone	59-60	2	Bytes	A2	01-12
Speed Made Good	61-63	3	Bytes	I3	To whole knots
Course Made Good	64-65	2	Bytes	I2	Tens of degrees °T
Height Above Sea Surface of Observer's Eyes	66-68	3	Bytes	I3	To whole meters
Platform Type Code	69	1	Bytes	A1	
Logging Technique Code	70	1	Bytes	A2 1	
Ship Activity Code	71	1	Bytes	A1	
Photo(s) Taken	72	1	Bytes	A1	Use collection code
Blank	76 76	5 5	Bytes	3X	
ZONE SEARCH CODE	73	1	"	A1	
VIEW FIND CODE	74	1	"	A1	
DESCRIPTION COMMAND CODE	75	1	"	A1	

CORD NAME Location Ship and Aircraft Census

FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (c.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1-3	3	Bytes	A3	Always '033'
File Identifier	4-9	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Station Number	11-15	5	Bytes	A5	<i>sequential from 1 within each unique FILE ID</i>
Latitude, Degrees	16-17	2	Bytes	I2	Starting Position
Minutes	18-19	2	Bytes	I2	
Seconds	20-21	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude, Degrees	23-25	3	Bytes	I3	} Starting Date/Time GMT
Minutes	26-27	2	Bytes	I2	
Seconds	28-29	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	
Year	31-32	2	Bytes	I2	} Last two digits of year
Month	33-34	2	Bytes	I2	
Day	35-36	2	Bytes	I2	
Hour	37-38	2	Bytes	I2	
Minute	39-40	2	Bytes	I2	0-59
Latitude, Degrees	41-42	2	Bytes	I2	Ending Position
Minutes	43-44	2	Bytes	I2	
Seconds	45-46	2	Bytes	I2	
Hemisphere	47	1	Bytes	A1	

Food Source Association Code

- 0 Indeterminable
- 1 Flying fish
- 2 Predatory fish or mammal
- 3 Squid
- 4 Plankton
- 5 Food (bait) fish
- 6 Scavenging
- 7 Rorquals
- 8 Coelenterates
- 9 Carcass
- A Oil slick - whale
- B Oil slick - fishing or fish processing

- 46 flying, 3-10m above wave/swell crests, flapping
- 47 flying, 3-10m above wave/swell crests, flapping and gliding
- 48 flying, 3-10m above wave/swell crests, gliding
- 49 flying, 10-50m above wave/swell crests, flapping
- 50 flying, 10-50m above wave/swell crests, flapping and gliding/soaring
- 51 flying, 10-50m above wave/swell crests, gliding/soaring
- 52 flying, 50+m above wave/swell crests, flapping
- 53 flying, 50+m above wave/swell crests, flapping and soaring
- 54 flying, 50+m above wave/swell crests, soaring

- 60 feeding at surface
- 61 feeding at surface, dipping (hovering, only bill used); *lifting*
- 62 feeding at surface, skimming(flying, only bill used)
- 63 feeding at surface, pattering (hovering, bill and feet used)
- 64 feeding at surface, filtering (sitting, bill in water)
- 65 feeding at surface, scavenging (sitting, eating dead organism)
- 66 feeding at surface, seizing (sitting, eating live organism)
- 67 feeding at surface, pursuing (running/flapping, head under water)

- 70 feeding below surface
- 71 feeding below surface, diving from air (plunge-diving), shallow (less than one body length)
- 72 feeding below surface, diving from air (plunge-diving), deep (more than one body length)
- 73 feeding below surface, diving from surface (pursuit diving)
- 74 peering (sitting or running/flapping, head under water looking for prey)

- 80 feeding above surface
- 81 feeding above surface, dipping (hovering or flying, aquatic organisms momentarily exposed captured in air)
- 82 feeding above surface, aerial piracy (parasitism)
- 83 feeding above surface, aerial pursuit

- 90 courtship display (see text for details)

- 99 other (see text)

This code can be expanded to as much detail as is desired by using alpha characters. The feeding behavior terms were taken primarily from Ashmole

Behavior (Activity) Code

- 00 indeterminable

- 01 sitting on surface
- 02 sitting on surface, diving in response to observer
- 03 sitting on surface, flying off in response to observer
- 04 sitting on surface, flying off in response to observer, landing again nearby
- 05 sitting on surface and calling
- 05 sitting on surface and bathing
- 07 " " " " *patter-flushing away*
- 08 " " " " *and landing again*
- 09 *swimming*
- 10 sitting on floating object (see debris association code for identity of object)
- 11 sitting on floating object, flying off in response to observer
- 12 sitting on floating object, flying off in response to observer, landing again nearby
- 13 sitting on floating object and calling

- 20 flying (height and type of flight not noted)
- 21 flying, below wave/swell crests (type of flight not noted)
- 22 flying, 0-3m above wave/swell crests (type of flight not noted)
- 23 flying, 3-10m above wave/swell crests (type of flight not noted)
- 24 flying, 10-50m above wave/swell crests (type of flight not noted)
- 25 flying, 50+m above wave/swell crests (type of flight not noted)
- 26 flying, flapping (height of flight not noted)
- 27 flying, flapping and gliding/soaring (height of flight not noted)
- 28 flying, gliding/soaring (height of flight not noted)

- 30 flying and calling
- 31 flying, circling ship
- 32 flying, following ship
- 33 flying, being pursued
- 34 flying, being pirated (parasitised)
- 35 " , *millery about in one area (spot)*

- 40 flying, below wave/swell crests, flapping
- 41 flying, below wave/swell crests, flapping and gliding
- 42 flying, below wave/swell crests, gliding
- 43 flying, 0-3m above wave/swell crests, flapping
- 44 flying, 0-3m above wave/swell crests, flapping and gliding
- 45 flying, 0-3m above wave/swell crests, gliding

B. SCIENTIFIC CONTENT of Data Format (where not self evident; cont.)

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
No. of Species Participating	See attached explanation	N / A	N / A	N / A
Behavior	See attached code	Subjective visual evaluation	"	"
Food Source Association	"	"	"	"
Debris	Same as in Environmental Format -----			

Linkage for Multispecies

(Association Sequence Number) (3 bytes)

An association is defined as a group of two or more birds and/or mammals in close proximity to each other and interacting in some way with each other, or engaging in the same behavior. Within each station all observations of associations, whether they are groups flying together, groups feeding together, or groups resting together, shall be numbered sequentially from 1. Single birds will not be numbered; in their records these fields should be left blank. All cards relating to the same group should have the same sequence number.

Number of species/taxa in an association (2 bytes)

This should be the number of cards with a single ^{association} sequence number. If sexes, plumages, or age classes within a species are separated and recorded on separate records, they should be tallied here as separate taxa. Similarly, if members of two or more species have to be lumped into a single count (i.e. dark shearwaters) they should be treated as a single taxon.

2/20/76

Type of Association Code

- 0 Indeterminable
- 1 Cetacea (large and small or group or solitary)
- 2 Bird
- 3 Pinniped
- 4 Cetacea/bird
- 5 Cetacea/pinniped
- 6 Pinniped/bird
- 7 Cetacea/bird/pinniped
- 8 Shark
- 9 Billfish

Number Reliability Code

This code provides confidence interval estimates for recorded numbers of birds in flocks. The first two interval estimates are symmetrical; the last four are logarithmic. "N" is the recorded number estimate.

blank	no information noted	
0	exact count	
1	N \pm 10%	
2	N \pm 25%	
3	(2/3)N to (3/2)N	(3/2)N = N + 50%
4	(4/7)N to (7/4)N	(7/4)N = N + 75%
5	N/2 to 2N	2N = N + 100%
6	N/3 to 3N	3N = N + 200%

Point First Scan Code

0 =	Indeterminable	
1 =	Dead ahead $\pm 7\frac{1}{2}^\circ$	(12 o'clock)
2 =	15 $\pm 7\frac{1}{2}^\circ$ off dead ahead	(12:30 or 11:30)
3 =	30 $\pm 7\frac{1}{2}^\circ$ " " "	(1:00 or 11:00)
4 =	45 $\pm 7\frac{1}{2}^\circ$ " " "	(1:30 or 10:30)
5 =	60 $\pm 7\frac{1}{2}^\circ$ " " "	(2:00 or 10:00)
6 =	75 $\pm 7\frac{1}{2}^\circ$ " " "	(2:30 or 9:30)
7 =	90 $\pm 7\frac{1}{2}^\circ$ " " "	(3:00 or 9:00)

2/20/76

Counting Method Code

- 1 Counted by ones
- 2 Counted by twos
- 3 Counted by fives
- 4 Counted by tens
- 5 Counted by fifties
- 6 Counted by hundreds
- 7 Counted by thousands
- 8 Counted by ten thousands
- 9 Estimated by mental comparison to count made for flock of similar size seen recently (same order of magnitude)
- A Estimated by instantaneous guess

2/20/76

Plumage Code

- 0 Indeterminable
- 1 Prejuvenile molt
- 2 Juvenile plumage
- 3 Post juvenile molt
- 4 First winter (or subadult) plumage
- 5 Prenuptial plumage
- 6 Nuptial plumage
- 7 Post nuptial plumage
- 8 Eclipse plumage
- A Adult winter plumage (includes subadult winter and/or juvenile plumage where indistinguishable from adult winter)

2/20/76

Molt Code

- 0 Interminable
- 1 Not evident
- 2 Evident (plumage changing)
- 3 New plumage
- 4 Old (worn) plumage

2/20/76

Sex Code

blank - No information

0 - Indeterminable

1 - Male

2 - Female

2/20/76

Color Phase Code

0 Indeterminable

1 Double Light (LL)

2 Light (L)

3 Medium Light (ML)

4 Intermediate (M)

5 Medium Dark (MD)

6 Dark (D)

7 Double Dark (DD)

8 Special (has specific meaning for different species e.g. Bridled Murre)

9 Other (see text)

Age Class Group Code (Cont'd)

When only gross estimates can be made

J - HY or AHY

K - HY or AHY or ASY

L - AHY or ASY

M - HY or AHY or ASY or ATY

N - AHY or ASY or ATY

P - ASY or ATY

Q - Adult

R - Actual age known (see text)

2/20/76

Age Class Group Code

blank - No information

0 - Indeterminable

1 - After Hatching Year -AHY- First year after hatching year -
January 1st to December 31st.

2 - Hatching Year -HY- Hatching date to December 31st. A bird
capable of sustained flight

4 - Local - A young bird incapable of sustained flight - if finer
codification is possible see codes A thru G

5 - Second Year - SY

6 - After Second Year - ASY

7 - Third Year - TY

8 - After Third Year - ATY

A change in both size and appearance may be used to classify age

A - Bright Ball of Fluff. Down bright. Patterns distinct (except diving
ducks). Body rounded. Neck and tail not prominent.

B - Fading Ball of Fluff. Down color fading, patterns less distinct.
Body still rounded. Neck and tail not yet prominent.

C - Gawky-Downy. Down color and patterns faded. Neck and tail become
prominent. Body becomes long and oval.

D - First Feathers. First feathers show on side under ideal conditions,
stays in this class until side view shows one-half of side and flank
feathered.

E - Mostly Feathered. Side view shows one-half of side and flank feathered.
Primaries break from sheaths. Stays in this class until side view shows
down in one or two areas only (nape, back or upper rump).

F - Last Down. Side view shows down in one or two areas only (nape, back
or upper rump). Sheaths visible on erupted primaries through this
class. Stays in this class until profile shows no down.

G - Feathered-Flightless. No down visible. Primaries fully out of
sheaths but not fully developed. Stays in this class until capable
of flight.

H - Flying Young

B. SCIENTIFIC CONTENT of Data Format (where not self evident)

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
Taxonomic, Sub Species, Species Group	See "Computer Codes for Birds of North America", U.S. Fish & Wildlife			(R.U. 339), Anchorage
Age Class Group	See attached code	Subjective visual evaluation	N / A	N / A
Sex	"	"	"	"
Color Phase	"	"	"	"
Plumage	"	"	"	"
Molt	"	"	"	"
Counting Method	"	N / A	"	"
Reliability	"	"	"	"
Point First Seen	"	Subjective visual evaluation	"	"
Distance from Observer to Bird	Tens of Meters	Determined with range finder developed by this R.U.	"	Rounded to nearest 50m when beyond 500m
Direction of Flight	Tens of °T to	Subjective visual evaluation	"	"
Association	See attached code	"	"	"
Linkage for Multispecies	See attached explanation	N / A	"	"

11) Files occur in the following order:

102 033 0522 00, Surveyor RP-4-SU-75B-Leg II, 8/11/75 to 2/29/75;
102 033 0522 01, Surveyor RP-4-SU-75B-Leg II, 8/8/75 to 2/29/75;
102 033 0531 00, Surveyor RP-4-SU-75C-Leg I, 9/5/75 to 9/11/75;
102 033 0531 01, Surveyor RP-4-SU-75C-Leg I, 9/4/75 to 9/12/75;
102 033 0532 0 (0 or 5), Surveyor RP-4-SU-75C-Leg II, 9/16/75 to 9/22/75;
102 033 1614 00, Discoverer RP-4-DI-76A-Leg IV, 4/15/76 to 4/30/76;
102 033 1615 00, Discoverer RP-4-DI-76A-Leg V, 5/4/76 to 5/8/76;
102 033 1616 01, Discoverer RP-4-DI-76A-Leg VI, 5/12/76 to 5/20/76;
102 033 2614 00, Miller Freeman RP-4-MF-76A-Leg IV, 6/11/76 to 6/23/76;
102 033 0621 01, Surveyor RP-4-SU-76B-Leg I, 8/17/76 to 8/19/76;
102 033 0622 0 (1 or 3), Surveyor RP-4-SU-76B-Leg II, 2/24/76 to 9/2/76; and
102 033 3607 0 (0 or 4), Moana Wave 76-Leg VII, 10/23/76 to 11/6/76.
John A. Wiens. 7-track, BCD, Even parity, 800 BPI.

Glare Intensity Code

- 0 - Slight sun glare
- 1 - Moderate sun glare
- 2 - Intense sun glare
- 3 - Slight cloud glare
- 4 - Moderate cloud glare
- 5 - Intense cloud glare
- 6 - Slight moon glare
- 7 - Moderate moon glare
- 8 - Intense moon glare
- 9 - No glare

Note: The effect of glare on the observer, of a given intensity is not necessarily the same for the types of glare.

B. Scientific Content of Environmental Format (cont.)

Weather (amendment to WMO Code 4677): A subjective evaluation of the amounts of precipitation recorded. Amounts increase from A to I, where A = no precipitation (observability not limited) and I = heavy precipitation (observability severely limited).

Light Level: A subjective evaluation, decreasing from A to I, where A = full daylight (observability not limited by light) and I = very little light (observability severely limited — observations not possible).

B. SCIENTIFIC CONTENT of Environmental Format (cont.)

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
Swell Direction	Tens of °T from	Data provided by ship from visual observations	N / A	Average used if more than one value available per transect
Swell Height	Tenths of Meters	"	N / A	"
Weather	WMO Code 4677 and attached amendments	" or visual observations by investigators	N / A	N / A
Cloud Amount	WMO Code 2700	Subjective evaluation from visual observation	N / A	Average used if more than one value available per transect
Visibility	WMO Code 4300	"	N / A	"
Sun Direction	Tens of °T to	"	N / A	"
Glare Intensity	See attached code	"	N / A	"
Light Level	Tens of Foot Candles, or see attached code	Measured with a GE Type 13 Light Meter - incident measurement used, or subjective evaluation	N / A	"
Debris	See attached code	Visual observation	N / A	N / A

B. SCIENTIFIC CONTENT of Environmental Format

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
Bottom Depth	Whole Meters	Fathometers of many different types and at many different settings	N / A	When taken more than once per transect a representative "average" value was used
Surface Temp.	Tenths of °C	Generally taken from sensing device on or within hull	N / A	Average used if more than one value available per transect
Dry/Wet Bulb Temperatures	Tenths of °C	Data provided by ship using sling psychrometer	N / A	Average used if more than one value available per transect
Relative Humidity	%	Calculated from standard tables using Dry and Wet Bulb Temperatures	N / A	"
Barometric Pressure	Tenths of Millibars	Data provided by ship from barometers	N / A	"
Barometric Trend	See code in data format	Subjective evaluation from data before and after transect	N / A	N / A
Wind Direction	Tenths of °T	Data provided by ship from wind vane meter	N / A	Average used if more than one value available per transect
Wind Speed	Whole Knots	Data provided by ship from anemometer	N / A	"
Sea State	WMO Code 3700	Data provided by ship from visual observations	N / A	"

B. Scientific Content
(Codes)

Byte

69 Platform Type — Always = '1'

70 Sampling Technique: 0 = Count from land to fixed distance
1 = Count from land to horizon
2 = Count from ship to fixed distance with no zone
3 = Count from ship to fixed distance with zone
4 = Count (actual) from ship to horizon with no zone
5 = Count from ship to horizon with zone
6 = Count from airplane to fixed distance with no zone
7 = Count from airplane to fixed distance with zone
9 = Other technique (see text)

Note: The interpretation of the distance to bird recorded in columns 45-47 on the observation card depends on this code. If zones were used, the distance indicates the upper limit of the zone which the bird was in when observed (horizon as an upper limit denoted by 999). If zones were not used, then a distance represents the actual distance to the bird at the time of observation.

71 Ship's Activity: 1 = Stationary / laying to
2 = Drifting
3 = Steaming
4 = Fishing while stationary
5 = Fishing while steaming
6 = Ice ramming

73 Zone Scheme: 1 = 1, 2, 3, 5, horizon
2 = 1, 2, 3, 5, 8, horizon
3 = Actual distance

74 View Angle: 1 = 0-90° port side } where 0° = dead ahead
2 = 0-90° starboard side }

75 Observability: 1 = observations not possible
2 = marginal conditions (vp)
3 = poor conditions (p)
4 = fine conditions (f)
5 = good conditions (g)
6 = excellent conditions (vg)
7 = perfect conditions

B. SCIENTIFIC CONTENT of Location Format (where not self evident)

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 and Longitude, Start and Finish	Degrees, Minutes, Seconds, and Hemisphere	Data provided by ship personnel using satellite, LORAN, or visual fixes	N / A	Positions from smoothed plots used when raw fixes not available
Speed Made Good	Whole Knots	Calculated graphically or mathematically from the smooth plots		
Course Made Good	Tens of ° T	Calculated graphically or mathematically from the smooth plots		
Height Above Sea Surface of Observer's eyes	Whole Meters	Taken from ship plans or measured in calm water with lead line	N / A	Average value used unless variation within one cruise greater than .5m
Platform Type	See attached code	-----	-----	-----
Sampling Tech.	See attached code	-----	-----	-----
Ship Activity	See attached code	-----	-----	-----
Zone Scheme	See attached code	-----	-----	-----
View Angle	See attached code	-----	-----	-----
Observation Conditions	See attached code	-----	-----	-----

ATTEMPTED
NO. DAY BY

COMPLETED
NO. DAY BY

1 CNCS NUMBER ON
ORIGINATOR TAPE

| / | | / | | / | |

MATT81

2 COPY (DITTO) TO
BACKGROUND

GUARD | / | | / | | / | |

009251

3 REFORMATTED TAPE
(IF REQUIRED)

| / | | / | | / | | / | |

4 USER TAPE
GENERATION

| / | | / | | / | | / | |

5 CHECK RUN (ERRORS)

| / | | / | | / | | / | |

5 CHECK RUN (OK)

| / | | / | | / | | / | |

6 CRUNCH TAPE
FROM "USER"

| / | | / | | / | | / | |

7 EVALUATION OF
ORIGINATOR DEF

| / | | / | | / | | / | |

8 NAFIS COUNT
PROGRAM RUN

| / | | / | | / | | / | |

9 DIP INVENTORY
PROGRAM RUN

| / | | / | | / | | / | |

10 DIP INVENTORY

| / | | / | | / | | / | |

RECORD NAME

BIRDS FILE C33

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		
76-1745 TR0565-0566				(1) TR0566	STATION 00013 15' SI FOR 3 CHANGED TO 008
76-1827 TR0580-0581					FROM <u>2</u> TO <u>8</u>
76-1875 TR0609-0611				(2) TR0565	STATION 00020 RECORDS' SI FOR 3 CHANGED TO 003
78-0516 TR3251-3258				(3)	ENDING LATDEG, LATMIN, LONDEG AND LONMIN NOT CHECKED
78-0704 TR3479				(4) TR0580	15' STATION 00013 0 IN COL 48 ELIMINATED
				(5)	TAX CODE 8810090301 CHANGED TO 8810080301 STATION '00015' RECORDS'
				(6)	TR3254 15' STATION 00025 COL 30 & 31 15 CHANGED 01

RECORD FORMAT DESCRIPTION

RECORD NAME

OCSEAP

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		
(1) TR 0611				STATION 00018	Lat & Long UNAVAIL
(2) TR 0610		15'		00007 '03'	ELIMINATED COL
		30		FOR 2	
(3) TR 0610		15'		00011 '03Q'	ELIMINATED COL
		30		FOR 3	
(4) TR 3251				STATION 00001	Lat & Long UNAVAIL
(5) TR 3255		15'		00068	100' ELIMINATED COL
		28		FOR 2	
(6) TR 3258				STATION 00023 & 00024	
		00023		LAT minute	UNAVAILABLE
		00024		LAT. minute & DEGREE	UNAVAILABLE
76-1745	TR 0565-0566				
76-1827	TR 0580-0581				
76-1875	TR 0609-0611				
78-0516	TR 3251-3258				
78-0704	TR 3479				



May 19, 1978

Mr. John J. Audet
NOAA/OCSEAP Coordinator
NODC Page Building 1
2001 Wisconsin Avenue
Washington, DC 20235

Dear Jim:

Under separate cover, I am sending you a magnetic tape containing the following twelve cruises from Dr. John Wiens (note that three of them have multiple file-id's):

0522 0	0532 0,5	1615 0
0522 1	0621 1	1616 1
0531 0	0622 1,3	2614 0
0531 1	1614 0	3607 0,4,6

The cruises have been concatenated together into one data set in the above order. The tape has been recorded in the following manner, with a tapemap also being included:

nine-track tape, 1600 BPI
ODD parity, EBCDIC
non-labelled
12 cruises in one data set
record length = 83, block size = 4150

The data has been processed as described in the enclosed letter to Dr. John Wiens. Please let us know if you have any questions or problems with the tape.

Sincerely,

Steffanie Windus
Systems Programmer

SW:sb

Enclosure

cc: Francesca Cava

May 19, 1978

Dr. John Wiens
Department of Zoology
Oregon State University
Corvallis, OR 97331

Dear Dr. Wiens:

Under separate cover, I am returning the seven-track tape of twelve cruises you sent us, and the CODEPULLs and LOGLISTs (with hand written corrections) of the original data. These corrections have been entered along with some standardization routines suggested by NOIC. They include the following:

1. Taxonomic Code - Trailing zero doublets replaced by blanks
2. Direction of Flight - Compass direction of 36 replaced by 00
3. Leading Zeros or Blanks were added to the following fields as necessary:

Leading Zeros

Station Number
Latitude
Longitude
Date, Time
Ships Heading
Multi-Species Link
Flight Direction
Sequence Number

Leading Blanks

Ships Speed
Height of Eyes
Wind Speed
Sea Surface Temperature
Dry Bulb Temperature
Wet Bulb Temperature
Bottom Depth
No. of individuals
Transect Width

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ODD parity, EBCDIC
IBM standard label
12 cruises, one per label
record length = 80, block size = 4000

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Dr. John Wiens

Page 2

May 19, 1978

Additional modifications to the data were required for submission to NODC. These included:

1. Deletion of alphabetic extensions to the Weather Code on the Environment cards.
2. Deletion of alphabetic extensions and "999" codes for Light Level on the Environment Cards.
3. Translation of "999" in the Distance to Bird field to an Outside Zone Code of "7" meaning - Bird on Horizon, on the Activity cards.

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If you have any questions or comments, please don't hesitate to call.

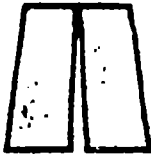
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Systems Programmer

SW:sb

cc: Francesca Cava
John Audet

Flame



THE UNIVERSITY OF NEW MEXICO □ ALBUQUERQUE, NEW MEXICO 87131
DEPARTMENT OF BIOLOGY □ TELEPHONE 505: 277-3411

November 14, 1978

RU 108

Nancy W. Clayton
Data Projects Group
Department of Chemistry
Kingston, R.I. 02881

Dear Ms. Clayton:

I am responding to your letter of 1 November on behalf of John Wiens. The incomplete or missing position data about which you inquired (cruise 0522 0, station 1; cruise 3607 6, stations 23 and 24) are not available because, in certain instances, the ship was unable to adequately provide positions. The identities of the five "unknown" taxonomic codes, however, are listed below:

3251
782057b

3256

Code	Binomial Name	Common Name
8803020506	<u>Pterodroma neglecta</u>	Kermadec Petrel
880302050701	<u>Pterodroma hypoleuca</u>	Bonin Petrel
880302050702	<u>Pterodroma nigripennis</u>	Black-winged Petrel
880302050901	<u>Pterodroma externa externa</u>	Juan Fernandez Petrel
880302050902	<u>Pterodroma externa cervicalis</u>	White-necked or Black-capped Petrel
8803020510	<u>Pterodroma alba</u>	Phoenix Petrel
8803020511	<u>Pterodroma phaeopygia</u>	Black- or Dark-rumped Petrel

If additional questions arise, please let us know. We'll do our best to resolve them.

Sincerely,

Dennis Heinenann

DH:cjp.

(1) MISSING LAT & LONG

78-0516

TR3251 '1' 00001

3258 '1' 00023

3258 '2' 00024

~~(2) LAT RANGE~~

As for son ^{was}
230 N

(3) TAXONOMIC

8803020506

TR3258 '5' 00031

07

TR3258 '5' 00054

09

TR3258 '5' 00060

10

TR3258 '5' 00068

11

TR3258 '5' 00072



Called info to Hale

10/4

will return info ASAP.

Keep with account data -
send copy of ek inv/inventory
to Hal / JPO



University of Rhode Island, Kingston, R.I. 02881
Department of Chemistry, Pastore Chemical Laboratory, (401) 792-2318

May 19, 1978

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NOAA/OCSEAP Coordinator
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Page 2

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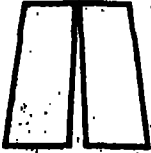
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Steffanie Windus
Systems Programmer

SW:sb

cc: Francesca Cava
John Audet



THE UNIVERSITY OF NEW MEXICO □ ALBUQUERQUE, NEW MEXICO 87131
DEPARTMENT OF BIOLOGY □ TELEPHONE 505: 277-3411

Elaine

November 14, 1978

RU 108

Nancy W. Clayton
Data Projects Group
Department of Chemistry
Kingston, R.I. 02881

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78-057b

3250

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DH:cjp

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78-0516

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As far south as
230 N

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8803020506

_____07

_____09

_____10

_____11

STA

TR3258 '5' 00031

TR3258 '5' 00054

TR3258 '5' 00060

TR3258 '5' 00068

TR3258 '5' 00072

↑

Called info to Hale

10/4

will return info ASAP.

Run with account data -
send copy of ek run/inventory
to Hal / JPO.

TAXON	CODE
LOBONEMATIDAE	373703
LOBONEMOIDES	37370302
LOBOTES SURINAMENSIS	8835281101
LOBOTIDAE	883538
LOCUSTELLA OCHOTENSIS OCHOTENSIS	915847020101
LOHMANNELLA	59300113
LOHMANNOSPHAERA	06030411
LOIMIA MEDUSA	5001682001
LOIMOIDAE	393204
LOIMOPAPILLOSUM DASYATIS	3932040101
LOLA LUBRICA	0808010401
LOLIGINIDAE	570601
LOLIGO	57060101
LOLIGO OPALESCENS	5706010101
LOLIUM MULTIFLORUM	3341013101
LOLLIGUNCULA BREVIS	5706010201
LOMANOTIDAE	513403
LOMENTARIA BAILEYANA	1610010201
LOMENTARIACEAE	161003
LOMIDAE	618309
LONCHOPTEROIDEA	6521
LONGIDORIDAE	471207
LONGIPEDIIDAE	611904
LONGIPROSTATUM	39060404
LONTRA CANADENSIS	9220020201
LOPADORRHYNCHIDAE	500115
LOPADORRHYNCHUS	50011502
LOPHASTER FURCIFER	8113010202
LOPHASTER FURCILLIGER VEXATOR	811301020101
LOPHIIDAE	878601
LOPHIUS AMERICANUS	8786010101
LOPHOCALYX	36321201
LOPHOCOLEA CUSPIDATA	2406020101
LOPHOCOLEACEAE	240602
LOPHODYTES CUCULLATUS	9112012001
LOPHOGASTRIDAE	615201
LOPHOLITHODES FORAMINATUS	6183081002
LOPHOLITHODES MANDII	6183081001
LOPHOPANOPEUS BELLUS	6189020101
LOPHORTYX CALIFORNICUS ACHRUSTERUS	911504030107
LOPHORTYX CALIFORNICUS BRUNNESCENS	911504030101
LOPHORTYX CALIFORNICUS CALIFORNICUS	911504030102
LOPHORTYX CALIFORNICUS CANFIELDAE	911504030103
LOPHORTYX CALIFORNICUS CATALINENSIS	911504030104
LOPHORTYX CALIFORNICUS DECOLORATUS	911504030106
LOPHORTYX CALIFORNICUS PLUMBEUS	911504030105
LOPHORTYX GAMBELII GAMBELII	911504030201
LOPHORTYX GAMBELII IGNOSCENS	911504030203
LOPHORTYX GAMBELII SANUS	911504030202
LOPHOSIPHONIA	16110407

NSDCHEK *** NON-STANDARD DATA FIELD CHECKING PROGRAM
THIS IS 03/15/78 VERSION WITH NUMERIC RANGE CHECKING

USER'S INPUT REQUESTS FOLLOW:
LRECL HAS BEEN SPECIFIED AS 83
STATION HEADER RECORD SPECIFIED AS 1
RECORD TYPES FLAGGED FOR RETRIEVAL ARE = 12345
STATION STARTS IN POSITION 11 FOR 5 BYTES
STATION WILL APPEAR ON RECORD TYPES : 12345
RECORD TYPE WILL BE TAKEN FROM COLUMN 10 OF THE INPUT RECORDS
FILETYPE IS 033

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

033TR3479100025593018N1475724W7609011630592000N1474700W60+09 1215 12153 224

?????

FIRST FILE ID

THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC

TYPE	REC	POS	LENGTH	NAME	RANGE LOW	TESTED HIGH	ACTUAL LOWEST	RANGE HIGHEST	MEAN	S. DEV	COUNT
M	1	16	2	LAT DEG	23	89	58	59	58.25	43	8
M	1	18	2	LAT MIN	00	59	5	47	27.37	10.70	8
N	1	20	2	LAT SEC	00	59	0	24	14.25	7.90	8
C	1	22	1	LAT HEM	N	N					
M	1	23	3	LON DEG	060	179	147	152	148.00	1.65	8
M	1	26	2	LON MIN	00	59	2	58	30.87	19.96	8
N	1	28	2	LON SEC	00	59	0	36	21.00	11.22	8
C	1	30	1	LON HEM	W	W					
M	1	31	2	START YEAR	75	78	76	76	76.00	00	8
M	1	33	2	START MO	01	12	9	9	9.00	00	8
M	1	35	2	START DAY	01	31	1	2	1.50	50	8
N	1	37	2	START HOUR	00	23	0	22	12.62	8.66	8
N	1	39	2	START MIN	00	59	0	30	11.25	14.52	8
N	1	41	2	END LATDEG	23	89	58	59	58.25	43	8
N	1	43	2	END LATMIN	00	59	0	40	24.37	10.62	8
N	1	45	2	END LATSEC	00	59	0	42	15.00	15.25	8
C	1	47	1	LAT HEM	N	N					
N	1	48	3	END LONDEG	060	179	147	151	148.00	1.32	8
N	1	51	2	END LONMIN	00	59	16	59	36.12	15.23	8
N	1	53	2	END LONSEC	00	59	0	54	27.75	20.11	8
C	1	55	1	LON HEM	W	W					
N	1	56	2	ELAPSED TIME(MIN)	NU RANGE	CHECKING	15	60	39.37	16.67	8
S	1	58									
N	1	59	2	TIME ZONE	01	12	9	9	9.00	00	8
N	1	61	3	SPD MADE GOOD(KNOTS)	000	200	5	14	11.37	2.61	8
N	1	64	2	COURSE MADE GOOD	NU RANGE	CHECKING	14	28	21.25	6.03	8
N	1	66	3	HGT ABV SEASURF	NU RANGE	CHECKING	12	12	12.00	00	8
N	1	73	1	WIDTH TRANSECT	NU RANGE	CHECKING	2	2	2.00	00	8
N	1	74	1	ANGLE CODE	NU RANGE	CHECKING	2	2	2.00	00	8
C	1	75	1	OBSERVATION COND COD	1	7					
N	1	76	4	DISTANCE MADE GOOD	NU RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
C	1	80	1	WATCH TYPE CODE	1	3					
N	1	81	3	TRANS WID(10*M)	NU RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	16	4	DEPTH TO BOTTOM(M)	NU RANGE	CHECKING	117	2450	1037.33	975.84	6
N	2	20	3	DEPTH OF THERMOCLINE	NU RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	23	4	SURFACE TEMP(C/10)	NU RANGE	CHECKING	78	128	118.25	16.32	8
N	2	27	3	SURFACE SALINITY(PPT)	NU RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	30	3	DRY-BULB TEMP(C/10)	NU RANGE	CHECKING	8	11	10.25	1.08	8
N	2	34	4	WET-BULB TEMP(C/10)	NU RANGE	CHECKING	86	100	91.50	4.33	8

N	2	38	2	RELATIVE HUMIDITY(%)	NU	RANGE	CHECKING	72	99	81.00	9.81	8
N	2	40	4	BAROM PRESS(MB/10)	NU	RANGE	CHECKING	14	108	69.62	29.96	8
N	2	45	2	WIND DIRECTION	NU	RANGE	CHECKING	10	15	12.00	1.73	8
N	2	47	2	WIND SPEED(KNOTS)	NU	RANGE	CHECKING	10	17	15.00	2.25	8
N	2	49	1	SEA STATE	NU	RANGE	CHECKING	1	3	2.75	66	8
N	2	50	2	SWELL DIRECTION	NU	RANGE	CHECKING	9	20	15.00	3.02	7
N	2	52	3	SWELL HT(M/10)	NU	RANGE	CHECKING	0	18	9.75	5.14	8
N	2	55	2	WEATHER	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
C	2	59	2	WATER COLOR	01		21					
N	2	61	1	VISIBILITY	NU	RANGE	CHECKING	6	8	7.37	74	8
N	2	62	1	SUN DIRECT CODE	NU	RANGE	CHECKING	0	6	4.00	2.22	6
N	2	63	1	GLARE INT CODE	NU	RANGE	CHECKING	0	9	3.00	3.00	6
N	2	64	1	GLARE AREA CODE	NU	RANGE	CHECKING	0	4	2.39	1.37	5
N	2	65	9	LIGHT LEVEL	NU	RANGE	CHECKING	90	90	90.00	00	1
N	2	68	1	MOON PHASE CODE	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	69	1	TIDE HT CODE	1		5	NO VALUES FOUND FOR THIS PARAMETER				
S	2	70										
N	2	71	4	DIST NEARSTSHORELINE	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	75	3	DIST SHELFBREAK	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	2	78	2	SECCHI DISK DEPTH	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
B	2	81	3									0
N	3	16	1	ICE COVER IN TRANS.	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	17	1	TYPE CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	18	1	FORM CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	19	1	RELIEF C IN TRANSECT	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	20	1	THICKNESS C IN TRANS	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	21	1	MELT CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	22	1	ICE COVER OUT TRANS.	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	23	1	TYPE CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	24	1	FORM CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	25	1	RELIEF C IN TRANSECT	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	26	1	THICKNESS C IN TRANS	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	27	1	MELT CODE IN TRANSEC	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	28	1	TYPE CODE-OPEN H2O	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
V	3	29	1	OPEN WATER DIRECTION	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	31	1	LEAD OR POLYNA WIDTH	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	32	1	VISIB ICE DESCRIP.	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	33	1	VISIB ICE DIRECTION	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	34	1	DISTANCE CODE	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	35	1	ARCTIC CODE OBS	1		3	NO VALUES FOUND FOR THIS PARAMETER				
N	3	36	1	EXCESS SEDIMENT	1		3	NO VALUES FOUND FOR THIS PARAMETER				
N	3	37	1	ICE ALGAE LAYER	1		3	NO VALUES FOUND FOR THIS PARAMETER				
N	3	38	1	MAMMAL TRACE CODE	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	39	1	OTHER FEATURES	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	40	1	PATTERN-INSIDE TRANS	1		2	NO VALUES FOUND FOR THIS PARAMETER				
N	3	41	1	PATTERN-OUTSIDE TRAN	1		2	NO VALUES FOUND FOR THIS PARAMETER				
N	3	42	1	SHIP IN WATER	1		3	NO VALUES FOUND FOR THIS PARAMETER				
N	3	43	1	WIDTH OF LEAD	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	44	1	DIS.SHIP-LEAD/POLYNY	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
V	3	45	2	TIME OF ICE CONDITIO	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	47	2	%WATER VS LAND	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	50	1	OPEN H2O ICE DESCRIP	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
N	3	51	1	OPEN H2O ICE COVER	NU	RANGE	CHECKING	NO VALUES FOUND FOR THIS PARAMETER				
B	3	52	26									0
N	4	78	3	SEQUENCE NUMBER	NU	RANGE	CHECKING	2	66	29.50	24.92	8
B	4	81	3									0
N	5	16	2	TIME(MIN)	NU	RANGE	CHECKING	2	60	26.68	15.99	72
T	5	18	12									431
N	5	33	1	SEX CODE	0		3	NO VALUES FOUND FOR THIS PARAMETER				
N	5	34	1	COLOR PHASE CODE	NU	RANGE	CHECKING	2	6	4.70	1.74	93

N	5	36	1	MOLT CODE	0	4	2	2	2.00	.00	8
N	5	37	5	# OF INDIVIDUALS	NO RANGE CHECKING		1	4000	22.97	233.64	431
N	5	43	1	RELIABILITY CODE	0	6	0	5	.04	.35	431
N	5	45	3	DIST OBS PLAT->BIRDS	NO RANGE CHECKING		10	80	32.07	.21.21	376
N	5	48	2	DIRECTION OF FLIGHT	NO RANGE CHECKING		0	34	12.92	9.92	350
N	5	50	1	ASSOCIATION CODE	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	5	51	3	LINKG FOR MULTISPEC.	NO RANGE CHECKING		1	21	7.99	5.64	106
N	5	54	2	# SPECIES PARTIC.	NO RANGE CHECKING		1	2	1.18	.41	106
N	5	56	2	BEHAVIOR CODE	NO RANGE CHECKING		1	35	18.22	7.92	431
N	5	58	1	SPEC.MARKS CODE	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	5	72	1	BIL CODE	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	5	73	3	DIST NR BREED COLONY	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	5	78	3	SEQUENCE CODE	NO RANGE CHECKING		1	99	34.83	25.72	431

RECORDS READ :

455

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800704	F033	TR3479	0081	3103	31SU	1976/09/01	RP4SU76B	307954

(1 row affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7800704	F033	TR3479	31SU	8	455	76/09/01	76/09/02

(1 row affected)