DDFA:5:01

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 81-0481

1) File Type: 031

2) Project Ident.: OCSEAP

3) Track Nos.: 6911

I. Error Corrections as reported to Principal Investigator:

Error	Correction Completed (Check)
Same as below. Changes made as suggested in correspondence.	

II. Additional error corrections:

Error	Correction Completed (Check)
1. STA. F0001 Changed aliquot factor from 00 to 01.	
2. STA. F0791, F0801, F0805, F0808 - Changed prey part identification from AB to AA.	
3. Changed TAX code - 883100 to 883109	

III. Processor Name: M. Lewis

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 81-0481 TR 6911

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	OCSE 35	NL	80	4000	FB		12,597
DUPLICATE	013142	NL	80	4000	FB		12,597
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DIS773*.FO31A.TR6911						12,597
EDITED DISK FILE							

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 81-0481 TR 6911

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	0C9E35	NL	80	4000	FB		12,597
DUPLICATE	013142	NL	80	4000	FB		12,597
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DI5773*.FO31A.TR6911						12,597
EDITED DISK FILE							

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3. Changed TAX code - 883100 to 883109	

III. Processor Name: M. Lewis

DATA SET FILE SHEET

ACCESSION/TRACK # 81-0481

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE # UCI 031	4/15/81	KA	OCSE35	1	4000	80	12,597
QUADI/SCAN TAPE # MA	Copy 5/18/81	EAA	013142	1	4000	80	12,597
ASSIGNED FOR PROCESS.							
DDF EVALUATION	5/18/82						
QUALITY REVIEW	5/18/82						
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	6/8/81		D15773*F031		TR6911		12,597
FIRST USER TAPE #							
WORK DISK FILE	5/19/82		D15773*F031A.		TR6911		12,597
FINAL USER TAPE #							
FINAL MULCHEK	5/19/82		D15773*F031A.TR6911				12,597
EDITED DISK FILE							
DATA SET "FINALIZED"							

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

National Oceanographic Data Center

May 25, 1982 OA/D781/SJH

Mr. William Johnson II
Data Projects Group
333 Pastore Hall
University of Rhode Island
Kingston, RI 02881

Dear Bill:

Enclosed is a copy of our parameter check runs and a listing of taxonomic codes for FTP 031, bird specimens, from Hunt, RU 083. The File ID is UCI031 corresponding to NODC track number TR6911. The data were processed by you and submitted to NODC for final processing and archiving.

The following corrections you listed in your letter dated July 20, 1981 have been completed:

1. Station F0001, record G, specimen 141: "Aliquot Factor" should be 01.

2. Station F0791, record G, specimen 593: The code for "Prey Part" should be AA. This same correction should be made for specimens 551, 554, and 556.

3. Station F0360 has a taxonomic code of 883100. This should be corrected to 883109.

The data set is considered final processed. However, please review the range values in the check runs for verification and notify me if any corrections are required.

A copy of the enclosure was sent to RU 083 for information only.

Sincerely yours,

Sid Halminski
NODC OCSEAP Data Coordinator

Enclosure

cc: D. Dale (w/enclosure)
G. Hunt (w/enclosure)
M. Crane

RU 083

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

July 20, 1981

Mr. Sid Halminski
NODC/OCSEAP Data Coordinator
Environmental Data and Information Service
National Oceanographic Data Center
2001 Wisconsin Avenue, N.W.
Washington, D.C. 20235

Dear Sid,

I have been asked to resolve the errors in the File Type 031 data from RU 083. These data are identified by File ID UCI031 and have a NODC track number TR 6911. The errors were listed in your 1 July 1981 letter to Hal Petersen. I will list them in the order that they were presented in your letter. The corrections are as follows:

1) Station F0001, record C, specimen 141: The "Aliquot Factor" should be 01.

2) Station F0791, record G, specimen 593: The code for "Prey Part" should be AA. This same correction should be made for specimens 551, 554, and 556.

3) Station F0360 has a taxonomic code of 883100. This should be corrected to be 883109.

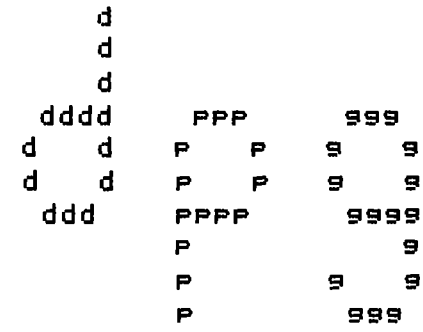
I hope these corrections are clear. If I can provide any further information please do not hesitate to call on me. Best wishes for a pleasant summer Sid.

Sincerely yours,

Bill Johnson

William C. Johnson II

cc: Wayne Fischer
Dean Dale
George Hunt, Jr.
Hal Petersen, Jr.
Mike Crane
Nancy Clayton
Nancy Butowski



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

March 27, 1981

Mr. Sid Halminski
NODC Page Building 1
2001 Wisconsin Avenue
Washington, D.C. 20235

Dear Sid:

Enclosed is a magnetic tape, UCI031, which contains data for Field Operation UCI031 from Dr. George Hunt (OCSEAP RU 083). The file type for this data is 031. Also included are the Data Documentation Form prepared by the investigator, a Tape Specification Form from DPG, and a Tapemap.

Please contact me if any questions or problems are encountered with this tape.

Sincerely,

Nancy W. Clayton

Nancy W. Clayton

cc: George Hunt
Dean Dale
Harold Petersen
Bill Johnson

TAPE SPECIFICATION FORM

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

Tape Identification -- UCI031

Recording Specifications --

Tracks:	9	Tape Files:	1
Density:	1600 BPI	Record Format:	FIXED BLOCKED
Parity:	ODD	Record Length:	80
Mode:	EBCDIC	Block Size:	4000
Label:	NON-LABELED		

Data Specifications --

Received From: GEORGE HUNT R.U. 083

Coding Format: NODC FILE TYPE 031

Data Set Names:

File#	Name	File#	Name
1	UCI031		

ACCESSION NUMBER

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

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

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

George L. Hunt, Jr.
Dept. of Ecology & Evolutionary Biology
U.C. Irvine
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

UCI031

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
	St. Paul & St. George Island, Alaska	U.S.	U.S.	6/29/75	8/25/79

8. ARE DATA PROPRIETARY?

[X] 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?)

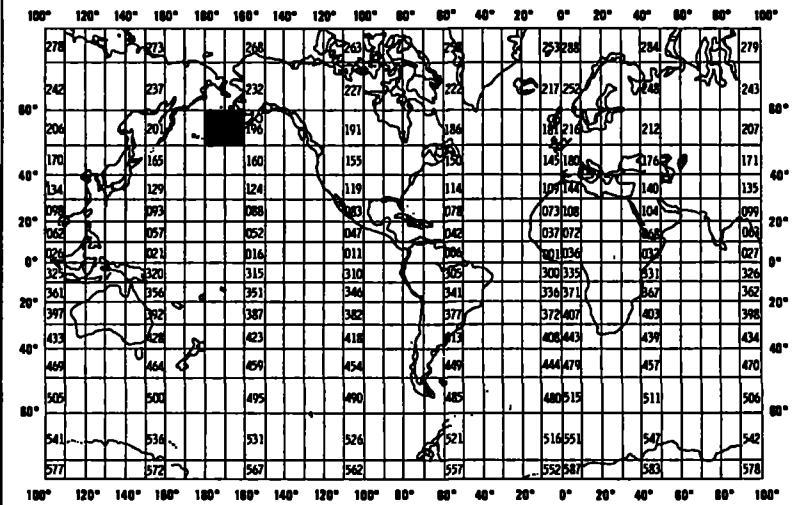
[ ] NO [X] YES [ ] PART *(SPECIFY BELOW)*

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

George Hunt
UCI
Irvine CA. 714-833-6322

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

GENERAL AREA



B. SCIENTIFIC CONTENT

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

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	ϕ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

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

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Record A				
Latitude & Longit.	degrees, minutes, & seconds	Study sites plotted from NOAA map #16011		
Date & time	GMT			
Record D				
Taxonomic code	NODC May 1978			
Collection method	NODC 0228	Determined by Collector		
Carcass disposition	NODC 0229	" " "		
Sex	NODC 0101	" " "		
Age Class group	NODC 0112	" " "		
Color phase	NODC 0115	" " "		
Plumage	NODC 0043	" " "		
Brood Patch	NODC 0230	" " "		
Behavior	NODC 0142	" " "		
Record E				
Tarsus	tenths millimeter	measured by Collector		
Culmen	" "	" " "		
Bill Width	" "	" " "		
Gonad length	" "	" " "		
Bursa length	" "	" " "		
Wing length	whole millimeters	" " "		
Total length	" "	" " "		
Total weight	whole grams	weighed by Collector		
Dry weight	tenths grams	" " "		
Fat free weight	tenths grams	" " "		
Viscera weight	whole grams	" " "		
Fat code	NODC 0119	determined by collector		
Record F				
Food sample source	NODC 0147			
Food volume	whole milliliters	determined in Lab		
Dry weight	tenths gram	" " "		
Wet weight	tenths gram	" " "		
Non-food weight	tenths gram	" " "		
Record G				
Prey Tax code	NODC May 1978			

NOAA FORM 24-13

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
Prey species group				
Non-Food item	NODC 0237	determined by lab		
Prey part ID.	NODC 0231	" " "		
Number of prey or prey parts	whole number	" " "		
Aliquot factor	NODC 0232	" " "		
Whole prey equivalent	whole number	The number of whole prey equal to the prey parts		
Life history	NODC 0148			
Volume method	NODC 0233	determined by Lab		
Prey volume	percent to tenths	" " "		
Volume of prey	tenths of milli-liters	" " "		
Record H				
Unit of measure-ment	NODC 0234	Determined by Lab		
Size class number	whole number	counted by Lab		
Size class lenght	units supplied by unit of measurement field.			
Record T				
Citition type	linked to records			

C. DATA FORMAT

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

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).

2. Describe briefly how your file is organized.

3-13. Self-explanatory.

14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.

15. Enter starting position of the field.

16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.

17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").

18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT

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

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

Record A - Location
Record D - Specimen field data
Record E - Specimen measurements
Record F - Food sample contents
Record G - Prey identification and count
Record H - Prey size classes
Record T - Text record

Each record is identified by a header consisting of: File id: UCI031, Record type: A,D,E,F,G,H,T Station number: F____.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

The file is in numerical order by station number for each sample collected.

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER James Mershman 714-833-6006
ADDRESS U.C. Irvine Dept. of Ecology, Ivine CA. 92717

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☐ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☐ NINE ☐ _____

7. PARITY ☐ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☐ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

12. PHYSICAL BLOCK LENGTH IN BYTES

13. LENGTH OF BYTES IN BITS

FILE TYPE 031 - MARINE BIRD SPECIMEN AND FEEDING STUDIES -
6/17/80 VERSION

NOTES AND CORRECTIONS

THIS FORMAT IS DESIGNED TO SUPPORT STUDIES OF DYNAMICS AND TROPHIC RELATIONSHIPS OF MARINE BIRD SPECIES. PARTICULAR EMPHASIS IS PLACED ON IDENTIFICATION OF FOOD SAMPLE CONTENTS, THE IDENTIFICATION OF PREY SPECIES AND THE QUANTITY OF EACH PREY PART PRESENT IN THE STOMACH OF EACH SPECIMEN.

THE FORMAT CONSISTS OF TEN DATA RECORDS FOR REPORTING POSITION, DATE AND TIME, ENVIRONMENT AND ICE INFORMATION, SPECIMEN IDENTIFICATION, MERISTIC DATA AND RELATED FIELD DATA, FOOD SAMPLE CONTENTS AND IDENTIFICATION, SIZE AND WEIGHT OF EACH PREY ITEM. A TEXT RECORD IS ALSO AVAILABLE.

THE LOCATION, DATE, TIME AND ENVIRONMENT (AND ICE RECORD IF APPROPRIATE) - RECORDS A,B AND C - SHOULD BE COMPLETED FOR EACH STATION, AND MAY INCLUDE MULTIPLE SPECIMENS. SPECIMEN RECORDS (D AND E) SHOULD BE COMPLETED FOR EACH SPECIMEN COLLECTED AND FROM WHICH ANY FOOD SAMPLE HAS BEEN OBTAINED. A FOOD SAMPLE RECORD (F) SHOULD BE COMPLETED FOR EACH FOOD SAMPLE COLLECTED AND THE KIND OF FOOD SAMPLE SHOULD BE INDICATED. MULTIPLE PREY RECORDS (G,H AND I) CAN BE SUBMITTED FOR EACH SPECIMEN, DEPENDING ON THE CONTENTS OF EACH SPECIMEN STOMACH. FOOD SAMPLE DATA ARE LINKED TO EACH SPECIMEN BY THE ITEM NUMBER ASSIGNED TO INDIVIDUAL ITEMS REMOVED FROM THE SPECIMEN STOMACH. THE SPECIMEN/SAMPLE NUMBER PROVIDES IDENTIFICATION OF A PARTICULAR SAMPLE AND ALL SPECIMEN/SAMPLES ARE LINKED BY STATION NUMBER.

PREY SIZE AND WEIGHT RECORDS INCLUDE FIELDS FOR FREQUENCY DISTRIBUTION OF PREY AND PREY PARTS AND MAY INVOLVE MULTIPLE RECORDS FOR BOTH SIZE AND WEIGHT DATA.

ALL RECORDS IN THIS FORMAT ARE 80 COLUMNS IN LENGTH. THIS FILE IS SORTED BY STATION NUMBER AND SEQUENCE NUMBER TO OBTAIN THE PROPER SEQUENCE OF RECORDS.

*****FILETYPE 031 - 12/27/79 - ADDED NEW PARMATERS* VOLUME OF PREY AND
*****FOOD SAMPLE ORIGIN TO RECORD TYPE 'G'-'I'
*****4/1/80 - WHOLE MILLILITERS ADDED FOR UNITS TO DISPLACEMENT VOLUME
*****(REC F)
*****6/17/80 - ADDED COLLECTOR IDENTIFIER TO REC 'D'*****

NOTES AND CORRECTIONS

PARAMETER	DESCRIPTION	SC
LOCATION/TIME OF SAMPLE RECORD	ALWAYS 'A'	10
STATION NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED IN ALL OTHER RECORDS (B THROUGH I AND T)	11
LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	16
LONGITUDE	DDDMMSS PLUS HEMISPHERE 'E' OR 'W'	23
DATE (GMT)	YYMMDD	31
TIME (GMT)	XXXX (HOURS AND MINUTES)	37
BLANKS		41
SEQUENCE NUMBER	XXX - USED FOR SORTING ALL RECORDS WITHIN A STATION - NUMBERS MUST BE IN ASCENDING BUT NOT NECESSARY SEQUENTIAL ORDER. ALSO INCLUDED IN OTHER RECORDS (B THROUGH I AND T)	78
ENVIRONMENT RECORD	ALWAYS 'B' - ONE ENVIRONMENT RECORD MAY REPRESENT MORE THAN ONE SAMPLE IF COLLECTED SIMULTANEOUSLY	10
STATION NUMBER	SEE RECORD 'A'	11
AIR TEMPERATURE	XXXX - NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO THE TEMPERATURE VALUE - DEG CENTIGRADE TO TENTHS	16
SEA SURFACE TEMPERATURE	XXXX - SAME AS ABOVE	20
WIND DIRECTION	XX - DIRECTION THE WIND IS BLOWING FROM - EXPRESSED IN TENS OF DEGREES	24
WIND SPEED	XX (WHOLE KNOTS)	26
PRESENT WEATHER	TWO-CHARACTER CODE - USE CODE 0159	28
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	30
PREVIOUS TIDE STAGE	ONE-CHARACTER CODE FOR DENOTING WHETHER LAST SLACK TIDE WAS ABOVE OR BELOW MEAN LOW WATER - USE CODE 0224	35
PREVIOUS TIDE HEIGHT	XXX - HEIGHT OF LAST SLACK TIDE - FEET TO TENTHS	36
PREVIOUS TIDE TIME (GMT)	XXXX - TIME OF LAST SLACK TIDE - HOURS AND MINUTES	39
PRESENT TIDE STAGE	ONE-CHARACTER CODE FOR DENOTING WHETHER PRESENT TIDE IS ABOVE OR BELOW MEAN LOW WATER - USE CODE 0224	43
PRESENT TIDE HEIGHT	XXX - FEET TO TENTHS	44
FOLLOWING TIDE STAGE	ONE-CHARACTER CODE FOR DENOTING WHETHER NEXT SLACK TIDE WILL BE ABOVE OR BELOW MEAN LOW WATER - USE CODE 0224	47

NOTES AND CORRECTIONS

FOLLOWING TIDE HEIGHT	XXX - FEET TO TENTHS	48
FOLLOWING TIDE TIME (GMT)	XXXX - TIME OF NEXT SLACK TIDE - HOURS AND MINUTES	51
TIDE METHOD	ONE-CHARACTER CODE FOR DENOTING WHETHER METHOD OF TIDE MEASUREMENT WAS ACTUAL OR PREDICTED - USE CODE 0225	55
HABITAT	TWO-CHARACTER CODE DESCRIBING THE GENERAL HABITAT AT THE SITE OF THE SPECIMEN COLLECTION - USE CODE 0226	56
MICROENVIRONMENT	ONE-CHARACTER CODE FOR RECORDING THE SINGLE MOST OUTSTANDING DETAIL ABOUT THE LOCAL ENVIRONMENT AT THE PRECISE LOCATION OF SPECIMEN COLLECTION - USE CODE 0227	58
PREY SAMPLING	ONE-CHARACTER CODE INDICATING THAT POTENTIAL PREY WERE SAMPLED AT THE SAME TIME AND PLACE AS THE BIRD SPECIMEN(S). DETAILS ON SAMPLING GEAR, SAMPLE NUMBERS, ETC SHOULD BE NOTED IN THE TEXT RECORD - USE CODE 0236	59
BLANKS		60
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

ICE RECORD	ALWAYS 'C' - THIS RECORD IS IDENTICAL TO THAT USED FOR FILE TYPE 033. THEREFORE SOME FIELDS MAY NOT BE APPROPRIATE FOR BIRD SPECIMEN FIELD EFFORTS	10
STATION NUMBER	SEE RECORD 'A'	11
ICE IN TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	16
ICE IN TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	17
ICE IN TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	18
ICE IN TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	19
ICE IN TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	20
ICE IN TRANSECT MELT	ONE-CHARACTER CODE - USE CODE 0058	21
ICE OUTSIDE TRANSECT COVERAGE	ONE-CHARACTER CODE - USE CODE 0054	22
ICE OUTSIDE TRANSECT TYPE	ONE-CHARACTER CODE - USE CODE 0059	23
ICE OUTSIDE TRANSECT FORM	ONE-CHARACTER CODE - USE CODE 0057	24
ICE OUTSIDE TRANSECT RELIEF	ONE-CHARACTER CODE - USE CODE 0107	25
ICE OUTSIDE TRANSECT THICKNESS	ONE-CHARACTER CODE - USE CODE 0061	26

NOTES AND CORRECTIONS

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

NOTES AND CORRECTIONS

SPECIMEN FIELD DATA RECORD	ALWAYS 'D'	10
STATION NUMBER	SEE RECORD 'A'	11
SPECIMEN/SAMPLE NUMBER	XXX - ASSIGNED BY THE ORIGINATOR TO EACH SAMPLE OR SPECIMEN COLLECTED, MEASURED ALIVE OR FROM WHICH A FOOD SAMPLE WAS TAKEN - ALSO INCLUDED IN RECORDS E,F,G,H,I AND T	16
TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	19
COLLECTION METHOD	ONE-CHARACTER CODE - USE CODE 0228	31
CARCASS DISPOSITION	ONE-CHARACTER CODE - USE CODE 0229	32
SEX	ONE-CHARACTER CODE - USE CODE 0101	33
AGE	ONE-CHARACTER CODE - USE CODE 0112	34
COLOR PHASE	ONE-CHARACTER CODE - USE CODE 0115	35
PLUMAGE	ONE-CHARACTER CODE FOR REPORTING THE STAGE OF PLUMAGE WHEN POSSIBLE - USE CODE 0043	36
BROOD PATCH	ONE-CHARACTER CODE FOR REPORTING PRESENCE AND CONDITION OF THE BROOD PATCH FOR DETERMINING BREEDING CONDITIONS - USE CODE 0230	37
BEHAVIOR (ACTIVITY)	TWO-CHARACTER CODE FOR REPORTING THE BEHAVIOR OF THE BIRD WHEN COLLECTED - USE CODE 0142	38
NUMBER OF BIRDS IN COLLECTION	XX - GENERALLY THE NUMBER OF BIRDS COLLECTED AT THE SAME PLACE AND WITHIN A FEW MINUTES OF EACH OTHER - INVESTIGATORS CAN USE ANY GEOGRAPHICAL OR TIME FRAME APPROPRIATE	40
LINKAGE NUMBER	XX - THE IDENTIFYING NUMBER FOR A COLLECTION OF TWO OR MORE BIRDS NUMBERED CONSECUTIVELY FOR EACH COLLECTION	42
COLLECTOR IDENTIFIER	XXX - ORIGINATOR'S ASSIGNED IDENTIFIER	44
BLANKS		47
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

SPECIMEN MEASUREMENTS RECORD	ALWAYS 'E' - THIS RECORD INCLUDES PARAMETERS FOR VERIFICATION OF SPECIES IDENTITY AND DETERMINATION OF REPRODUCTIVE AND PHYSIOLOGICAL CONDITION OF THE SPECIMENS. DEFINITIONS OF STANDARD MEASUREMENTS FROM PETTINGILL, 1970 - "ORNITHOLOGY IN LABORATORY AND FIELD"	10

NOTES AND CORRECTIONS

STATION NUMBER	SEE RECORD 'A' LABORATORY AND FIELD"	11
SPECIMEN/SAMPLE NUMBER	XXX - SEE RECORD 'D'	16
DIAGONAL TARSUS	XXXX - DISTANCE FROM THE POINT OF THE JOINT BETWEEN THE TIBIA AND THE METATARSUS TO THE POINT AT THE JOINT OF THE BASE OF THE MIDDLE TOE IN FRONT (MILLIMETERS TO TENTHS)	19
EXPOSED CULMEN	XXXX - DISTANCE FROM TIP OF THE UPPER MANDIBLE IN A STRAIGHT LINE TO THE BASE OF THE FEATHERS ON THE FOREHEAD OR FROM THE ANTERIOR EDGE OF THE CERE - (MILLIMETERS TO TENTHS)	23
INSIDE BILL WIDTH	XXX - DISTANCE AT THE ANGLE OF THE COMMISSURE FROM ONE INSIDE EDGE OF THE BILL TO THE OTHER WITH BILL HELD OPEN AT 30-45 DEGREES. A RULER IS NECESSARY RATHER THAN CALIPERS TO AVOID STRETCHING WIDER THAN NORMAL (MILLIMETERS TO TENTHS)	27
RIGHT WING WIDTH	XXX - DISTANCE FROM THE BEND OF THE WING TO THE TIP OF THE LONGEST PRIMARY. CURVATURE IS NOT STRAIGHTENED AND MEASUREMENT IS MADE WITH DIVIDERS - WHOLE MILLIMETERS)	30
BURSA LENGTH	XXX - OUTPOCKETING OF THE DORSAL WALL OF LOWER INTESTINE, JUST ABOVE THE CLOACA. PRESENT IN ALL YOUNG BIRDS BUT IT RESORBS AS THEY REACH MATURITY - SERVES AS INDEX OF AGE (MILLIMETERS TO TENTHS)	33
TOTAL LENGTH	XXXX - DISTANCE FROM TIP OF THE BILL TO TIP OF LONGEST TAIL FEATHER. COMMISSURE OF BILL IS BROUGHT PARALLEL TO THE RULER AFTER GENTLY STRETCHING SPECIMEN - WHOLE MILLIMETERS	36
TOTAL WEIGHT	XXXXX - PROVIDES INDEX OF FEEDING SUCCESS AND A CLUE TO FEEDING RATE WHEN RELATED TO STOMACH CONTENTS WEIGHT - (WHOLE GRAMS)	40
DRY WEIGHT	XXXX - WEIGHT AFTER LABORATORY DESSICATION - (GRAMS TO TENTHS)	45

NOTES AND CORRECTIONS

FAT FREE WEIGHT	XXXXXX - WEIGHT AFTER DESSICATION AND TOTAL LIPID EXTRACTION IN THE LABORATORY (GRAMS TO TENTHS)	49
VISCERA WEIGHT	XXXX - COMBINED WEIGHT OF THE DIGESTIVE TRACK AND OTHER INTERNAL ORGANS - (WHOLE GRAMS)	55
LARGEST GONAD	XXXX - LENGTH OF LARGEST TESTIS OR DIAMETER OF LARGEST OVUM (MILLIMETERS TO TENTHS)	59
FAT INDEX	ONE-CHARACTER CODE FOR INDICATING AMOUNT OF BODY FAT ON SPECIMEN - USE CODE 0119	63
BLANKS		64
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

FOOD SAMPLE CONTENTS RECORD	ALWAYS 'F'	10
STATION NUMBER	SEE RECORD 'A'	11
SPECIMEN/SAMPLE NUMBER	XXX - SEE RECORD 'D'	16
FOOD SAMPLE ORIGIN	ONE-CHARACTER CODE - USE CODE 0147 - USED TO IDENTIFY LOCATION OF FOOD SOURCE IN SPECIMEN	19
STOMACH FULLNESS CODE	ONE-CHARACTER CODE - USE CODE 0092	20
GUT PORTION	ONE-CHARACTER CODE - USE CODE 0240	21
WET WEIGHT	XXXXXX - DRAINED WET WEIGHT OF CONTENTS OF FOOD SAMPLE LESS WEIGHT OF NON-FOOD ITEMS - (GRAMS TO TENTHS)	22
DISPLACEMENT VOLUME	XXXXXX - VOLUME OF WATER DISPLACED BY CONTENTS OF FOOD SAMPLE LESS NON-FOOD ITEMS (WHOLE MILLILITERS)	28
DRY WEIGHT	XXXXXX - DRY WEIGHT OF FOOD SAMPLE LESS NON-FOOD ITEMS - (GRAMS TO TENTHS)	34
WEIGHT OF NON-FOOD ITEMS	XXXXXX - COMBINED WEIGHT OF NON-FOOD ITEMS IN SAMPLE - DETAILED MEASUREMENTS RECORDS G,H AND I - (GRAMS TO TENTHS)	40
BLANKS		46
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

PREY IDENTIFICATION/COUNT RECORD	ALWAYS 'G'	10
STATION NUMBER	SEE RECORD 'A'	11
SPECIMEN/SAMPLE NUMBER	XXX - SEE RECORD 'D'	16
PREY TAXONOMIC CODE	TWELVE-CHARACTER CODE - USE NODC TAXONOMIC CODES	19

NOTES AND CORRECTIONS

PREY SPECIES GROUP	TWO-CHARACTER CODE - USFWS INTERNAL CODE PROVIDES FOR TAXA BETWEEN ORDER AND FAMILY ESPECIALLY WHEN ONLY PARTS ARE AT HAND OR IDENTIFIES PREY PARTS TO ONE OF TWO OR MORE POSSIBLE TAXA WHICH ARE NOT IN THE SAME FAMILY OR EVEN IN THE SAME ORDER	31
NON-FOOD ITEMS	TWO-CHARACTER CODE FOR IDENTIFICATION AND PRESENCE OF NON-FOOD ITEMS - USE CODE 0237	33
PREY PART IDENTIFICATION	TWO-CHARACTER CODE FOR IDENTIFYING THE KIND OF PART FROM WHICH SPECIES WAS IDENTIFIED AND WHETHER PREY IS WHOLE - WILL BE CROSS-REFERENCED WITH MEASUREMENT DATA IN RECORDS H AND I - USE CODE 0231	35
NUMBER OF PREY OR PREY PARTS	XXX - NUMBER FOR PREY TAXONOMIC CODE - WHEN NUMBER IS TOO LARGE FOR TOTAL COUNT, AN ALIQUOT IS COUNTED AS NOTED IN NEXT FIELD	37
ALIQUOT FACTOR	TWO-DIGIT CODE TO INDICATE THE SIZE OF THE ALIQUOT - 01 INDICATES TOTAL COUNT - USE CODE 0232	40
WHOLE PREY EQUIVALENT	XXXX - NUMBER OF WHOLE PREY THAT NUMBER OF PREY OR PREY PARTS IS EQUIVALENT TO (E.G. NUMBER OF FISH OTOLITHS OR EUPHAUSID EYEBALLS IS DIVIDED BY TWO)	42
LIFE HISTORY (PREY)	ONE-CHARACTER CODE FOR LIFE HISTORY STAGE OF PREY OR PREY PARTS - USE CODE 0148	46
VOLUME METHOD	ONE-CHARACTER CODE - USE CODE 0233	47
PREY VOLUME	XXX - ALL FOOD IN STOMACH COMPRISED BY PREY IN PREY TAXONOMIC CODE - TRACE AMOUNTS INDICATED BY 001 - EXPRESSED IN PERCENT TO TENTHS - UNITS AS INDICATED IN VOLUME METHOD CODE	48
PREY DRY WEIGHT	XXXXX - DRY WEIGHT OF PREY SPECIES (WHOLE PREY AND PARTS OF SOME SPECIES COMBINED) IDENTIFIED IN PREY TAXONOMIC CODE - FOR FINER RESOLUTION, RECORD I PROVIDES MEANS OF RECORDING WEIGHT CLASSES OF PREY OR PREY PARTS - EXPRESSED IN GRAMS TO THOUSANDTHS	51
PREY WET WEIGHT	XXXXXX - SAME AS ABOVE	56
VOLUME OF PREY	XXXX - ML TO TENTHS - DO NOT USE WITH VOLUME METHOD CODE (COL 47) WHEN ENTERING DATA IN THIS FIELD	62
BLANKS		66
FOOD SAMPLE ORIGIN	ONE-CHARACTER CODE - USE CODE 0147 - USED WITH ITEM NUMBER TO LINK DATA TO SPECIMEN IDENTIFIED IN RECORD 'F'	75

NOTES AND CORRECTIONS

ITEM NUMBER	XX - EACH PREY OR NON-FOOD ITEM IS ASSIGNED A NUMBER BEGINNING WITH 01 AND CONTINUING CONSECUTIVELY THRU THE COMBINED TOTAL KINDS OF PREY AND NON-FOOD ITEMS. PREY MAY BE HIGHER TAXA THAN SPECIES IF DIGESTED BEYOND RECOGNITION TO SPECIES LEVEL	76
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78
PREY LENGTH CLASS RECORD	ALWAYS 'H' - DATA IN H AND I HELP DETERMINE TROPHIC RELATIONSHIPS OF MARINE BIRDS AND HOW THEY FIT INTO THE OVERALL FOOD WEB OF AN ECOSYSTEM. MULTIPLE RECORDS MAY BE USED IF OVER NINE LENGTH OR WEIGHT CLASSES ARE IDENTIFIED	10
STATION NUMBER	SEE RECORD 'A'	11
SPECIMEN/SAMPLE NUMBER	XXX - SEE RECORD 'D'	16
LENGTH CLASS - METHOD C UNIT CODE	ONE-CHARACTER CODE - ENTRY INDICATES THAT METHOD A IS BEING USED - MEASUREMENT OF EVERY MEASURABLE PREY OR PREY PART IS MADE AND LINKED BY ITEM NUMBER - THE ADJACENT FIELD (INTERVAL VALUE) SHOULD BE BLANK IF THIS FIELD IS USED - THE NUMBER OF MEASURABLE WHOLE PREY OR PREY PARTS MAY NOT ALWAYS EQUAL THE NUMBER OF PREY/PREY PARTS IN RECORD G - USE CODE 0234	19
INTERVAL VALUE - METHOD B UNIT CODE	ONE-CHARACTER CODE - ENTRY INDICATES THAT METHOD B IS BEING USED - RECORDING OF A SPECIFIC LENGTH CLASS IMPOSED OPPORTUNISTICALLY BY THE INVESTIGATOR - (METHOD A IS PREFERRED) - RANGE OF LENGTH CLASS IS INDICATED BY RECORDING WIDTH OF CLASS INTERVAL - THE PRECEDING FIELD (LENGTH CLASS) SHOULD BE BLANK IF THIS FIELD IS USED - USE CODE 0234	20
LENGTH CLASS 1	XXX - METHOD A - NUMBER OF PREY/PREY PARTS THAT ARE OF EXACT SAME LENGTH - THE FIRST LENGTH CLASS REPRESENTS THE SHORTEST LENGTH OBSERVED - THE PRECISION IS THAT EXPRESSED BY THE UNIT CODE; METHOD B - NUMBER OF PREY/PREY PARTS ENCOMPASSED BY RANGE OF FIRST CLASS LENGTH - THE FIRST LENGTH CLASS IS THE SHORTEST IN LENGTH	21

MEASUREMENT	XXX - METHOD A - ACTUAL LENGTH OF PREY/ PREY PARTS OF FIRST LENGTH CLASS - UNITS DEPENDENT ON UNIT CODE; METHOD B - MIDPOINT VALUE OF INTERVAL OF THE FIRST LENGTH CLASS - UNITS DEPENDENT ON UNIT CODE - COLS 19 OR 20	24
LENTH CLASS 2	XXX - SEE ABOVE	27
MEASUREMENT	XXX - SEE ABOVE	30
LENGTH CLASS 3	XXX - SEE ABOVE	33
MEASUREMENT	XXX - SEE ABOVE	36
LENGTH CLASS 4	XXX - SEE ABOVE	39
MEASUREMENT	XXX - SEE ABOVE	42
LENGTH CLASS 5	XXX - SEE ABOVE	45
MEASUREMENT	XXX - SEE ABOVE	48
LENGTH CLASS 6	XXX - SEE ABOVE	51
MEASUREMENT	XXX - SEE ABOVE	54
LENGTH CLASS 7	XXX - SEE ABOVE	57
MEASUREMENT	XXX - SEE ABOVE	60
LENGTH CLASS 8	XXX - SEE ABOVE	63
MEASUREMENT	XXX - SEE ABOVE	66
LENGTH CLASS 9	XXX - SEE ABOVE	69
MEASUREMENT	XXX - SEE ABOVE	72
FOOD SAMPLE ORIGIN	ONE-CHARACTER CODE - USE CODE 0147 - USED WITH ITEM NUMBER TO LINK DATA TO SPECIMEN IDENTIFIED IN RECORD 'F'	75
ITEM NUMBER	XX - SEE RECORD 'G'	76
SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

PREY WEIGHT CLASS RECORD	ALWAYS 'I'	10
STATION NUMBER	SEE RECORD 'A'	11
SPECIMEN/SAMPLE NUMBER	XXX - SEE RECORD 'D'	16
WEIGHT CLASS - METHOD A UNIT CODE	ONE-CHARACTER CODE - SAME EXPLANATION AS RECORD 'H' - USE CODE 0235	19
INTERVAL VALUE - METHOD B UNIT CODE	ONE-CHARACTER CODE - SAME EXPLANATION AS RECORD 'H' - USE CODE 0235	20
WEIGHT CLASS	XXX - METHOD A OR B - SAME EXPLANATION AS RECORD 'H'	21
MEASUREMENT*	XXX - METHOD A OR B - SAME EXPLANATION AS RECORD 'H'	24
WEIGHT CLASS	XXX - SEE ABOVE	27
MEASUREMENT	XXX - SEE ABOVE	30
WEIGHT CLASS	XXX - SEE ABOVE	33
MEASUREMENT	XXX - SEE ABOVE	36
WEIGHT CLASS	XXX - SEE ABOVE	39
MEASUREMENT	XXX - SEE ABOVE	42
WEIGHT CLASS	XXX - SEE ABOVE	45
MEASUREMENT	XXX - SEE ABOVE	48
WEIGHT CLASS	XXX - SEE ABOVE	51

NOTES AND CORRECTIONS

	MEASUREMENT	XXX - SEE ABOVE	54
	WEIGHT CLASS	XXX - SEE ABOVE	57
	MEASUREMENT	XXX - SEE ABOVE	60
	WEIGHT CLASS	XXX - SEE ABOVE	63
	MEASUREMENT	XXX - SEE ABOVE	66
	WEIGHT CLASS	XXX - SEE ABOVE	69
	MEASUREMENT	XXX - SEE ABOVE	72
	FOOD SAMPLE ORIGIN	ONE-CHARACTER CODE - USE CODE 0147 - USED WITH ITEM NUMBER TO LINK DATA TO SPECIMEN IDENTIFIED IN RECORD 'F'	75
	ITEM NUMBER	XX - SEE RECORD 'G'	76
	SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78
TEXT	RECORD	ALWAYS 'T'	10
	STATION NUMBER	SEE RECORD 'A'	11
	SPECIMEN/SAMPLE NUMBER	SEE RECORD 'D'	16
	CITATION	THREE-CHARACTER FIELD WHICH INCLUDES RECORD TYPE AND ITEM NUMBER TO WHICH THE TEXT COMMENTS REFER	19
	TEXT	56-CHARACTER FIELD FOR COMMENTS OR PERTINENT INFORMATION - MULTIPLE TEXT RECORDS MAY BE USED	22
	SEQUENCE NUMBER	XXX - SEE RECORD 'A'	78

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

NOAA FORM 24-18

D. INSTRUMENT CALIBRATION

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

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

NOAA FORM 24-13

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 8100481 F031 TR6911 0081 31W9 3199    1975/04/03 UCI031       314499

(1 row affected)
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```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8100481 F031 TR6911 3199 1919   12597  75/04/03   79/09/03

(1 row affected)
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