

## DATA DOCUMENTATION FORM

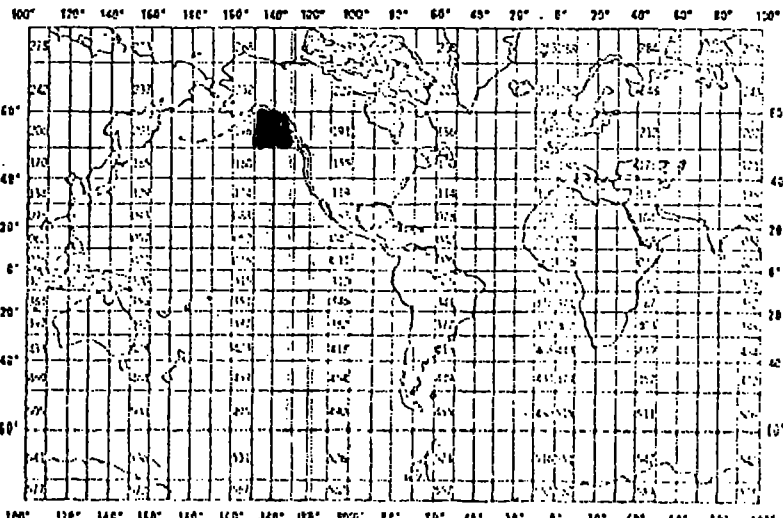
77-0435  
TR1337NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

F032

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 <i>H. M. Feder Marine Sci. University of Alaska Box AK 99701</i>											
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>NOAA/OCS RU. 281</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>Discoverer 816 File ID 008816</i>									
4. PLATFORM NAME(S) <i>Discoverer</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"><thead><tr><th>PLATFORM</th><th>OPERATOR</th></tr></thead><tbody><tr><td><i>USA</i></td><td><i>USA</i></td></tr></tbody></table>	PLATFORM	OPERATOR	<i>USA</i>	<i>USA</i>	7. DATES <table border="1"><thead><tr><th>FROM: MO, DAY, YR</th><th>TO: MO, DAY, YR</th></tr></thead><tbody><tr><td><i>11/23/75</i></td><td><i>12/2/75</i></td></tr></tbody></table>	FROM: MO, DAY, YR	TO: MO, DAY, YR	<i>11/23/75</i>	<i>12/2/75</i>
PLATFORM	OPERATOR										
<i>USA</i>	<i>USA</i>										
FROM: MO, DAY, YR	TO: MO, DAY, YR										
<i>11/23/75</i>	<i>12/2/75</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.  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>H. M. Feder R. S. Hadley</i>											

# 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
Benthic Organisms	Taxon Code #/WT.	Van veen Grab Microscope	—	—

# C. DATA FORMAT

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

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

Record Types 1, 2, 3, 5

## 2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

All record Type 1 then all 2 then all 3, then all 5

## 3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1 ☐ ALGOL ☐ COBOL  
☒ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

## 4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907) 479-7836  
ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .5 INCH
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> OCTAL 23
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	281 032 000816 Discoverer 816 11/23-12/2/75 H. Feder  9TRK, 800BPI, EBCDIC, N LABEL, ODD PARITY 86 BYTES/BLOCK
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 88 BYTES/BLOCK <b>13. LENGTH OF BYTES IN BITS</b> 8 BITS

# 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		
File Type	032		as	approved	M. Pelto

## 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 CALI- BRATED
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
N/A									

2936T 03 05/17/77

UTILITY REPORT 750804

PAGE

1

Octal Dump 1st 10 records

FFILE IN.PHYREC.NLABEL  
FUTIL IN..REN/IN..DUMP/10R/  
BLK# MODE CC WRD#

PHYREC DUMP FILE#

1 FILECODE IN

DENS 800

1	BINARY	4	1	741717627417	036076170766	743423117054	172620144705	201413317214	%\S%\3+"7W%1C9Y*\F @P5 @#I-e
			6	075165540725	201533252015	472660751342	226401002004	010020040100	7RV*7E :.E :PF+=#KBU10 410 410
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010074171500	200401002004	010020000000	10 410 410 410%\:0 410 410 000
2		4	1	741717627417	036076170766	743423117054	172620170113	741703612014	%\S%\3+"7W%1C9Y*\F \1%\3/ @
			6	152470440326	662403255036	174466342500	655431006054	270170561500	#DYM3FWD3E+<\MWJE0V*10**G1Y:;0
			11	611533057044	032565561500	603517236556	310071542711	617443432016	/:~5YM3EV;+0+(<\CV;10Z*G9/%LL >
			16	172620141305	201617016454	272574171100	200401002004	010020000000	\F @#5 >\1U*GE%\90 410 410 000
3		4	1	741717627417	036076170766	743423117054	172620161701	717405006135	%\S%\3+"7W%1C9Y*\F >\1Z%50/(
			6	274465142731	603617056104	030271161500	653531007154	271161744343	GMV@GI+<\5/432Z>:0V(10Z*G9/%LL
			11	201437117134	272520163305	623437107064	030562361710	613545006474	@\9ZJGE >.5S1\8YU35S<\8/(10U%
			16	274270440343	621407252004	010074170500	200401002004	010020000000	GKYM3LSE7E 410%\50 410 410 000
4		4	1	741717627417	036076170766	745703607417	136520040100	201737657437	%\S%\3+"7W%*3+%\#V 410 \V%\
			6	076275570362	753727717417	076474552761	751703647577	276471440100	7S='3S=\GZ%\7U%)G/=\3U=\GUZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
5		4	1	741717627417	036076170766	745703607417	177174172363	753737657437	%\S%\3+"7W%*3+%\Z%CT=\V%\
			6	076275770362	747727717477	336075552761	751713647637	036071440100	7S=\3S=\GZ%\.=)G/=\#U"\3+ZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
6		4	1	741717627417	036076170766	745703607417	236474170767	753737657437	%\S%\3+"7W%*3+%\CU%\7X=\V%\
			6	076275770371	741727717477	336476152761	751717657537	136471440100	7S=\3Z%\GZ%\U":G/=\V=\#UZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
7		4	1	741717527417	036076170766	745703607417	237074170770	741737657437	%\S%\3+"7W%*3+%\CY%\7Y%\V%\
			6	076275771362	753727717457	376374152761	751727617477	136471440100	7S=\#S=\GZ%\IT:G/=\G/%\#UZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
8		4	1	741717627417	036076170766	745703607417	276474171362	741737657437	%\S%\3+"7W%*3+%\GU%\#S%\V%\
			6	076276370766	753733607437	236075552761	751733647637	036071440100	7S"\7W=\.=%\C+=)G/=\U"\3+ZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
9		4	1	741717627417	036076170766	745703607417	276574170762	741737657437	%\S%\3+"7W%*3+%\GV%\7S%\V%\
			6	076276370761	753733607417	236176152761	751733647457	176671440100	7S"\7/=\.=%\C/":G/=\U%\WZM10
			11	200401002004	010020040100	200401002004	010020040100	200401002004	410 410 410 410 410 410 410 4
			16	010020040100	200401002004	010020040100	200401002004	010020000000	10 410 410 410 410 410 410 000
10		4	1	741717627417	036076170766	745703607417	277174171761	741737657437	%\S%\3+"7W%*3+%\GZ%\V%\V%\

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	NL	R71208	06/09/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal/EBCDIC/
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
77-0435 OCSEAP BENTHOS (O) TR1337				
Remarks/Special Entries/Title/Job Name				
format = 032 orig tape = JJA01C				
Vol-Ser-	LRCL	Blk. Fact.	Release Authorized by	Date Released
009590	88	1		

NOAA Form 47-29  
(4-73)

U. S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	SL	R71208	07/26/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal/EBCDIC/
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
77-0435 OCSEAP BENTHOS (O/C) TR1337				
Remarks/Special Entries/Title/Job Name				
DSN = FED FORMAT = 032				
Vol-Ser-	LRCL	Blk. Fact.	Release Authorized by	Date Released
010430	88	50		

NOAA Form 47-29  
(4-73)

U. S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADM.

Job. No.	User Name	PL	Task No.	Date
	035 ASHBY	SL	R71208	08/03/77
Reel No.	Density 200/	Drive	Mast. Reel	
Of	556/800/1600	#	#	
Track	Tape	Storage Location	Packed	Decimal/EBCDIC/
7/9	New/Used			BCD/BINARY/ASCII
Data Description				
77-0435 OCSEAP BENTHOS (U) TR1337				
Remarks/Special Entries/Title/Job Name				
DSN = TR1337 Format = 032				
Vol-Ser-	LRCL	Blk. Fact.	Release Authorized by	Date Released
001533	88	50		

NOAA Form 47-29  
(4-73)

U. S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC

77-0435 OCSEAP BENTHK  
TR 1337

## CORRECTIONS

### SORTED

LEVEL 1	11	FOR	5	(station number)
LEVEL 2	10	FOR	1	(CARD type)
LEVEL 3	79	FOR	2	(SEQUENCE NUMBER)

FILE ID CHANGED FROM 000816.  
TO TR 1337



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

Four record types differentiated by a "Record Type Identifier" field in byte 10 of every record.

RECORD TYPE	DATA TYPE
1	Header (Text) Record (Optional)
2	Station (Sample) Header Record
3	Segment Detail Record
5	Species Record
6	Comment Record (for individual station)

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

RECORD FORMAT DESCRIPTION

RECORD NAME HEADER (TEXT) RECORD (OPTIONAL)

3-20-76

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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Ship Name	11	6	Bytes	A6	
Text	17	62	Bytes	62A1	
Sequence Number	79	2	Bytes	I2	Incremented by one for each text record.
Blank	81	6	Bytes	6X	

## RECORD NAME SEGMENT DETAIL RECORD

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMERIC	UNITS		
File Type	1	3	Bytes	I3	Always '032'
Cruise Number	4	6	Bytes	I6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	I5	
Sample Segment					
Start Depth	16	2	Bytes	I2	Start depth of segment within sample in cm.
End Depth	18	2	Bytes	I2	End depth of segment within sample in cm.
Penetration Depth	20	3	Bytes	I3	Core penetration in mm.
Area Sampled	23	7	Bytes	I7	Meters squared to thousandths
Bottom Salinity	30	5	Bytes	I5	Parts per thousand to thousandths
Bottom Temperature	35	4	Bytes	I4	Degrees Celsius to hundredths
Bottom Oxygen	39	3	Bytes	I3	Milliliters per liter to tenths
Sediment Organic Carbon	42	4	Bytes	I4	Percent by weight to hundredths
Sediment Total Carbon	46	4	Bytes	I4	Percent by weight to hundredths
Sand	50	3	Bytes	I3	Percent by volume to tenths
Silt	53	3	Bytes	I3	Percent by volume to tenths
Clay	56	3	Bytes	I3	Percent by volume to tenths
Minimum Sieve Size	59	4	Bytes	I4	Millimeters to hundredths
Wire Length	63	4	Bytes	I4	Length of wire out in whole meters.
Wire Angle	67	2	Bytes	I2	In whole degrees from vertical

BENTHIC ORGANISMS  
RECORD FORMAT DESCRIPTION

2

CORD NAME SEGMENT DETAIL RECORD, - CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., Site, Bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Average Phi Size	69	3	Bytes	I3	To tenths
Equipment Code	72	3	Bytes	A3	'BMT' = Beam Trawl 'OTB' = Otter Trawl 'SMG' = Smith-MacIntyre Grab 'DSC' = Deep Sea Camera 'MCB' = Multiple Core 'QMB' = 1/4 Meter Sq. Box C 'GMB' = 1/10 Meter Sq. Box 'VVG' = Van Veen Grab, Originator's Number
Sample Number	75	4	Bytes	I4	
Segment Sequence	79	2	Bytes	I2	Sequential number indicating an individual segment of sample. These numbers sh be consecutive (01,02,03,...
Sample Volume	81	4	Bytes	I4	Liters to tenths
Number of Grabs	85	2	Bytes	I2	Total number making up samp volume

# BENTLEY ORGANICS RECORD FORMAT DESCRIPTION

RECORD NAME STATION (SAMPLE) HEADER RECORD

2-1-81

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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	A1	Always '2'
Station Number	11	5	Bytes	I5	
Start Depth	16	4	Bytes	I4	To whole meters
Start Date (GMT)					
Year	20	2	Bytes	I2	00 to 99
Month	22	2	Bytes	I2	01 to 12
Day	24	2	Bytes	I2	01 to 31
Start Time (GMT)					
Hour	26	3	Bytes	I3	To tenths (000 to 239)
Start Latitude					
Degrees	29	2	Bytes	I2	00 to 80
Minutes	31	2	Bytes	I2	00 to 59
Seconds	33	2	Bytes	I2	00 to 59
Hemisphere	35	1		A1	'N' or 'S'
Start Longitude					
Degrees	36	3	Bytes	I3	000 to 180
Minutes	39	2	Bytes	I2	00 to 59
Seconds	41	2	Bytes	I2	00 to 59
Hemisphere	43	1	Bytes	A1	'E' or 'W'
End Depth	44	4	Bytes	I4	To whole meters

# RECORD FORMAT DESCRIPTION

17-400-71

RECORD NAME, STATION (SAMPLE) HEADER RECORD, CONTINUED

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
End Date (GMT)					
Year	48	2	Bytes	I2	00 to 99
Month	50	2	Bytes	I2	01 to 12
Day	52	2	Bytes	I2	01 to 31
End Time (GMT)					
Hours	54	3	Bytes	I3	To tenths (000 to 239)
End Latitude					
Degrees	57	2	Bytes	I2	00 to 90
Minutes	59	2	Bytes	I2	00 to 59
Seconds	61	2	Bytes	I2	00 to 59
Hemisphere	63	1	Bytes	A1	'N' or 'S'
End Longitude					
Degrees	64	3	Bytes	I3	000 to 180
Minutes	67	2	Bytes	I2	00 to 59
Seconds	69	2	Bytes	I2	00 to 59
Hemisphere	71	1	Bytes	A1	'E' or 'W'
Distance Offshore	72	3	Bytes	I3	Distance to nearest shoreline in whole kilometers.
Tow Direction	75	3	Bytes	I3	Direction from true North in whole degrees.
Blank	78	9	Bytes	9X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Ice - Land Census

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., 000, 0000)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '033'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Station Number	11	5	Bytes	A5	
<u>Ice in Transect</u>					
Coverage Code	16	1	Bytes	A1	WMO 0547
Type Code	17	1	Bytes	A1	WMO 3763
Form Code	18	1	Bytes	A1	WMO 1147
Relief Code	19	1	Bytes	A1	WMO 3262
Thickness Code	20	1	Bytes	A1	WMO 4006
Melt Code	21	1	Bytes	A1	WMO 2650
<u>Ice Outside Transect</u>					
Coverage Code	22	1	Bytes	A1	WMO 0547
Type Code	23	1	Bytes	A1	WMO 3763
Form Code	24	1	Bytes	A1	WMO 1147
Relief Code	25	1	Bytes	A1	WMO 3262
Thickness Code	26	1	Bytes	A1	WMO 4006
Melt Code	27	1	Bytes	A1	WMO 2650
<u>Open Water</u>					
Type Code	28	1	Bytes	A1	WMO 4552
Direction Code	29	1	Bytes	A1	WMO 0732
Distance Code	30	1	Bytes	A1	WMO 3600

## RECORD FORMAT DESCRIPTION

RECORD NAME: SPECIES RECORD

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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Station Number	11	5	Bytes	I5	
Species Code	16	10	Bytes	5A2	
Sub Species Code	26	2	Bytes	A2	
Number of Individuals	28	5	Bytes	I5	
Species Total Weight	33	10	Bytes	I10	Grams to thousandths
Qualitative Code	43	1	Bytes	A1	Use File 032 Qualitative Code
Blank	44	35	Bytes	35X	
Segment Sequence Number	79	2	Bytes	I2	Corresponding to the sample segment sequence number in which the species is found. (e.g. when record type 3 has a segment sequence no. of 06, all record type 5 records as- sociated will have segment sequence no. of 06.)
Blank	81	6	Bytes	6X	
					The first N records (optional) of each file may be Type 1 records sequenced in ascending order 01 through N. Each sam- pling station within the file will begin with a single Type 2 record. Each segment within a sample will have one Type 3 record with a unique, ascend- ing sequence number (01 through the total number of delineated segments). Each species de- tected in a segment will have a unique Type 5 record and will be tied to the segment with a corresponding segment sequence number.



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 '032'
Cruise Number	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '6'
Station Number	11	5	Bytes	I5	
Text Sequence Number	16	3	Bytes	I3	Numerically ascending within a segment sequence number
Text	19	63	Bytes	65A1	
Segment Sequence Number	79	2	Bytes	I2	This field allows text records to be written for a station and for a particular segment of a station. If all text records are associated with a station, this field would be left blank. If the text are explaining a particular segment of a sample, that segment(s) will be coded. In both cases the Text Sequence Number will be used to sequence the text records
Blank	81	6		6X	

## Benthic Organisms

FILE TYPE	CRUISE NUMBER	RECORD TYPE	VESSEL NAME	TEXT																																SEQUENCE NUMBER	BLANK
(032)																																					
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	START DEPTH (M)	START DATE (GMT)			START TIME (GMT)			START LATITUDE			START LONGITUDE			END DEPTH (M)	END DATE			END TIME (GMT)			END LATITUDE			END LONGITUDE			DISTANCE OFF SHORE (KM)	TOW DIRECTION (DEG)	SEQUENCE NUMBER	BLANK				
(032)					YR	MO	DAY	HR	MIN	SEC	DEG	MIN	SEC	N or S	DEG	MIN	SEC	E or W		YR	MO	DAY	HR	MIN	SEC	DEG	MIN	SEC	N or S	DEG	MIN	SEC	E or W				
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	SAMPLE SEIMENT (CM)		CORE PENETRATION DEPTH (MM)	AREA SAMPLED (M <sup>2</sup> TO THOUSANDTHS)	BOTTOM SALINITY (% TO THOUSANDTHS)	BOTTOM TEMPERATURE (°C TO HUNDREDTHS)	BOTTOM OXYGEN CONC. (ML/L TO TENTHS)	SEDIMENT CARBON		PERCENT SAND	PERCENT SILT	PERCENT CLAY	MINIMUM SIEVE SIZE (MM. TO HUNDREDTHS)	WIRE LENGTH OUT (M)	WIRE ANGLE (DEG)	AVG. PHI SIZE (TO TENTHS)	EQUIPMENT CODE	SAMPLE NUMBER	SEQUENCE NUMBER	VOLUME OF SAMPLE (LITERS TO 10)														
(032)				START DEPTH	END DEPTH						ORGANIC	TOTAL																									
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	SPECIES CODE		SUB SPECIES	NUMBER OF INDIVIDUALS	SPECIES TOTAL WEIGHT (GRAMS TO THOUSANDTHS)		SPERMATOPHYTES	BLANK												SEQUENCE NUMBER	BLANK													
(032)																																					
FILE TYPE	CRUISE NUMBER	RECORD TYPE	STATION NUMBER	TEXT		SEQUENCE NUMBER	TEXT																SEQUENCE NUMBER	BLANK													
(032)																																					

PUNCH CARD TRANSCRIPT

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7700435	F132	TR1337	0081	31I7	31DS	1975/11/26	00816	304102

(1 row affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
7700435	F132	TR1337	31DS	7	565	75/11/26	75/11/29

(1 row affected)