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Woods Hole Oceanographic Institution

Descriptions of WHOI Sediment Cores, VOLUME 8

Edited by

P.B. Mills and J.E. Broda

May 1993

Technical Report

Funding was provided by the National Science Foundation under Contract Nos. OCE88-00693 and OCE 1901734.

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P.B. Mills and J.E. Broda

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Woods Hole, Massachusetts 02543

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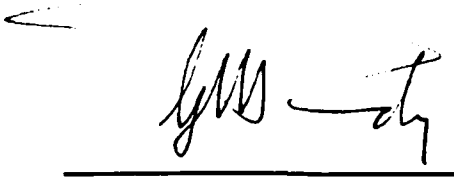

G. Michael Purdy, Chair
Department of Geology and Geophysics

ABSTRACT

This report supplements Volumes 1 - 7 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975; 1977; Broda, Franks, and Keith, 1981; Broda and Andrew, 1985). It contains visual descriptions and smear slide analyses for several suites of cores received in the geological samples collection of the Woods Hole Oceanographic Institution between mid-1984 and late 1989. Approximately 220 sample localities from the North Atlantic, South Atlantic, Mediterranean and Pacific Oceans are represented. Charts of ships tracks for cruises included in this report and updated computer listings of all cores in the W.H.O.I. collection are also presented.

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INTRODUCTION

A. Scope and Format of this Report.

In the past decade we have prepared and distributed seven volumes of W.H.O.I. Technical Reports (Johnson and Driscoll, 1975; 1977), (Broda, Franks and Keith, 1981) (Broda and Andrew, 1985) containing descriptive and logistical data for cores comprising the W.H.O.I. geological samples collection. The present report, the eighth volume in this series, includes visual core descriptions and smear slide analysis for several groups of W.H.O.I. cores obtained between mid-1984 and late 1989.

This compilation represents approximately 220 coring stations from the Atlantic, Mediterranean and Pacific Oceans. Core descriptions have been grouped according to ship and cruise number and are arranged chronologically for each cruise. A computer listing of the cores taken on each cruise, together with a chart indicating the ship's track, precedes the core descriptions.

B. Nomenclature

The numbers assigned to the geological samples are followed by a letter (or letters) to indicate the method used in obtaining the samples. The letters which have been used are:

GC -	Gravity Core
PC -	Piston Core
PG -	Pilot Gravity Core
GPC -	Giant Piston Core (also JPC)
GGC -	Giant Gravity Core
BC -	Box Core
SC -	Soutar Box Core
CC -	Camera (Pogo) Core
FF -	Free-Fall Core
GR -	Van Veen Grab
KC -	Kasten Core

We have retained the original station numbers and core numbers insofar as possible. A gap in the core or station numbering sequence for any given expedition indicates either that the core is not now in the W.H.O.I. geological collection, or that such a core was never obtained due to either equipment malfunction or the lack of recovery of sample material. In some instances, the letter designations for the type of sampling device have been amended or deleted for purposes of clarity and consistency within the collection. For example, a piston core originally labeled "10a" is now labeled as a "10a PC." The "PC" has been added to identify it as a piston core, and the "a" has been retained to insure proper correlation with the original coring records.

All cores in the W.H.O.I. collection except the giant piston cores and Kasten cores were acquired using sampling equipment lined with polycarbonate clear plastic tubing. These cores have been split and stored at room temperature in high impact styrene D-tubes, with moisture-saturated potting foam sealed inside each D-tube to retard the loss of

moisture from the cores. The giant gravity cores (GGC's) were obtained with thick walled PVC as a core liner and core barrel. These cores were recovered vertically and kept that way until dewatered and capped. Core disturbance was minimized by this process and the surface interval in each giant gravity core should be especially well preserved.

We have attempted to apply uniform procedures in completing the core descriptions and microscopic analyses of smear slides. A more detailed discussion of the WHOI procedures for shipboard core handling, core archiving, core describing, and core photography may be found in the following reports:

(1) Johnson, D. A. and Driscol' A. H. (1972), "The Curating of WHOI's Geological Collections", Woods Hole Oceanogr. Inst. Tech. Memorandum WHOI-2-72, 20 pp.

(2) Mountain, G. S. (1973), Procedures for Description of WHOI Sediment Cores", Woods Hole Oceanogr. Inst. Tech. Memorandum WHOI-7-73, 25 pp.

(3) Shepherd, F. C. (1976), "Procedures for Photographing WHOI Sediment Cores", unpublished MS.

C. Summary of Description Procedures and Sediment Classification System

The following is a summary of the descriptive procedures used in preparing this report; a more complete discussion is included in Volume 1 of this series (Johnson and Driscoll, 1975, pp. 7-21).

1. Visual Description

The entire core is laid out in the correct order of sections, and proper labeling is verified. The core is then subdivided into units, which may be distinguished from each other by lithology, color, texture, or special features. Contacts between units are classified as gradational (G) or sharp (S). Sharp bottom contacts are further described as horizontal (H), inclined (I), mottled, irregular, or curved (convex upward or downward). The color of the unit is described by comparison with, and reference to, the Munsell Soil Color Charts. When more than one color is dominant, excluding mottles or burrows, each noteworthy color is recorded. When a multitude of fine laminations is present, only the dominant color is recorded.

Textural notation includes descriptive parameters such as grain size and the amount of dehydration, compaction, and lithification. Grain size parameters used are: lutite ($< 4\mu$), silt (4μ - 62μ), sand (62μ - 2mm), and gravel (>2 mm). Microscopic examination of smear slides is used to determine the lithology and relative abundance of silt and sand sized components. Sand and gravel are distinguishable through a magnifying glass and to the unaided eye. Estimation of sizes within the sand range is accomplished by comparison with vials of sieved, standardized sands.

Additional observations fall under the heading of "special features." Graded bedding may be observed in silt-sized or coarser-grained sediment. The range in grain size and the depth interval over which grading occurs are noted. Graded beds are often burrowed in the fine upper section and have sharp, eroded bottom contacts. Many graded beds may be turbidites, but this generic term is not used in the description of graded beds.

Cross-bedding is rarely observed and is generally restricted to silt or sand sized sediment. Beds of alternating colors or textures which truncate each other on a scale as small as one mm are described as cross bedding. Laminations and microlaminations (up to 1 mm thickness) are observed and noted.

Poor core recovery, washed sediment, or flow-in are also included as special features. Flow-in may occur in piston cores, and is usually found at the bottom of the core, but may occasionally occur in upper sections as well. It results from insufficient core penetration and subsequent sucking action of the piston upon core pull-out. When flow-in is suspected but cannot be demonstrated visually, verification can often be obtained by X-radiography.

2. Smear slide analysis

Smear slides have been prepared and analyzed from the top and bottom of each core, at intervals of approximately one meter within the core, and/or from each major lithologic unit when closer sampling is required. The smear slides are examined through a polarizing binocular microscope, commonly with a magnification of 80X - 320X. The slide is first scanned at low power for a general indication of its composition. The describer then estimates the percentages of the various components, using standardized smear slides and periodic comparisons between describers in order to give some assurance that percentages are being estimated with a degree of consistency. However, the data tabulated on the smear slide forms should be used only qualitatively as an indication of the relative proportion of various components, and how the relative abundance of each component appears to change within a given core.

The following sediment components represent those most commonly encountered in smear slide analysis, and are used in identifying the sediment type:

Inorganic Components	Biogenic Components	
	Calcareous	Siliceous
Detrital grains	Foraminifera	Diatoms
Micronodules	Nannofossils	Radiolaria
Zeolites	Discoasters	Sponges
Volcanic shards	Pteropods	Silicoflagellates
Pyrite	Others	
Clay		

3. Designation of sediment type

A sediment name is assigned to each smear slide examined, following the sediment classification scheme summarized in Table 1 and in Figures 1a-1b. These sediment names are recorded on the smear slide description sheet, and serve as a basis for designating one or more sediment types for each lithologic unit.

Each principal lithologic unit is described on the visual description sheets, using a consistent format. An example is shown below:

Descriptive Terms	Explanation
0-112	Depth interval (cm)
CALC OOZE	Sediment type
10 YR 6/4 light yellowish brown	Color (Munsell Notation)
common dark brown mottling throughout	Mottling (if present)
firm, slightly silty lutite	Texture
2 Mn nodules, 2 cm diam., 95-100 cm.	Special features
S, inclined 10°	Basal contact

In the lithologic log on the left side of the visual description sheets, stylized symbols are used to summarize the lithology and any special features which are readily observed macroscopically. A key to the symbols used in the lithologic logs is presented in Figure 2.

TABLE 1: Sediment Classification System

I. MAJOR SEDIMENT NAME: Based on relative proportion of biogenic material ($CACO_3 + SiO_2$) and inorganic material.

Oozes: Total biogenic material > 30%

Calcareous ooze:	$CaCO_3$ >>	SiO_2		
Calcareous-siliceous ooze:	$CaCO_3$ >	SiO_2,	with SiO_2 > 5%	
Siliceous-calcareous ooze:	SiO_2 >	$CaCO_3$,	with $CaCO_3$ > 5%	
Siliceous ooze:	SiO_2 >>	$CaCO_3$		

Clays: Total biogenic material < 30%

Highly	calcareous siliceous	clay: 15%	≤	$CaCO_3$ SiO_2	< 30%	
	Calcareous Siliceous	clay: 5%	≤	$CaCO_3$ SiO_2	< 15%	
Slightly	calcareous siliceous	clay: 1%	≤	$CaCO_3$ SiO_2	< 5%	

II. SECONDARY SEDIMENT NAMES: Included when silt or sand sized inorganic components are present in excess of 15%.

15% < % inorganic components < 30%

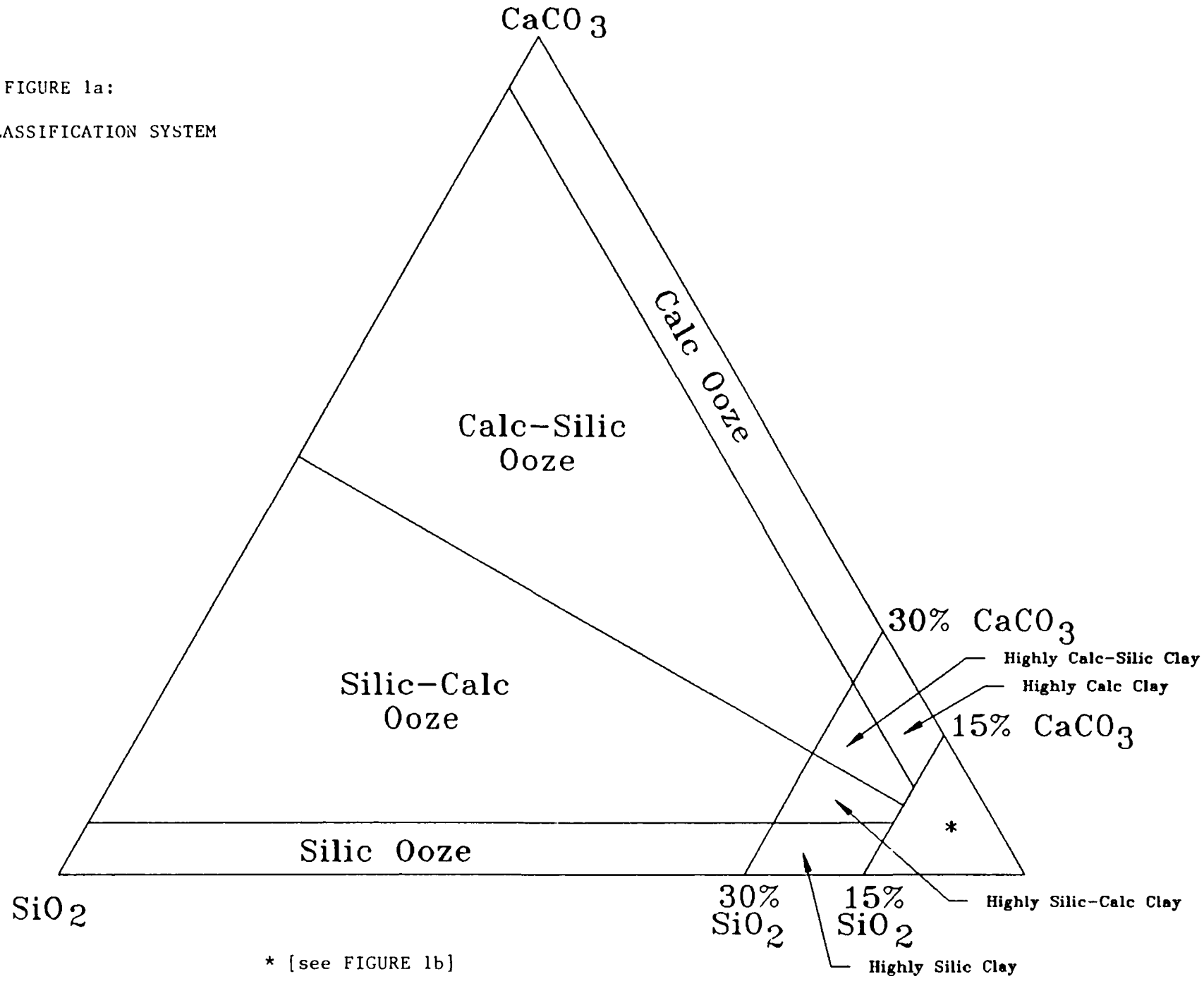
(MAJOR SEDIMENT NAME) with detrital grains
Mn micronodules
zeolites
volcanic ash
etc.

% inorganic components ≥ 30%

(MAJOR SEDIMENT NAME) / detrital grains
Mn micronodules
zeolites
volcanic ash
etc.

FIGURE 1a:

SEDIMENT CLASSIFICATION SYSTEM



* [see FIGURE 1b]

FIGURE 1b:

SEDIMENT CLASSIFICATION SYSTEM

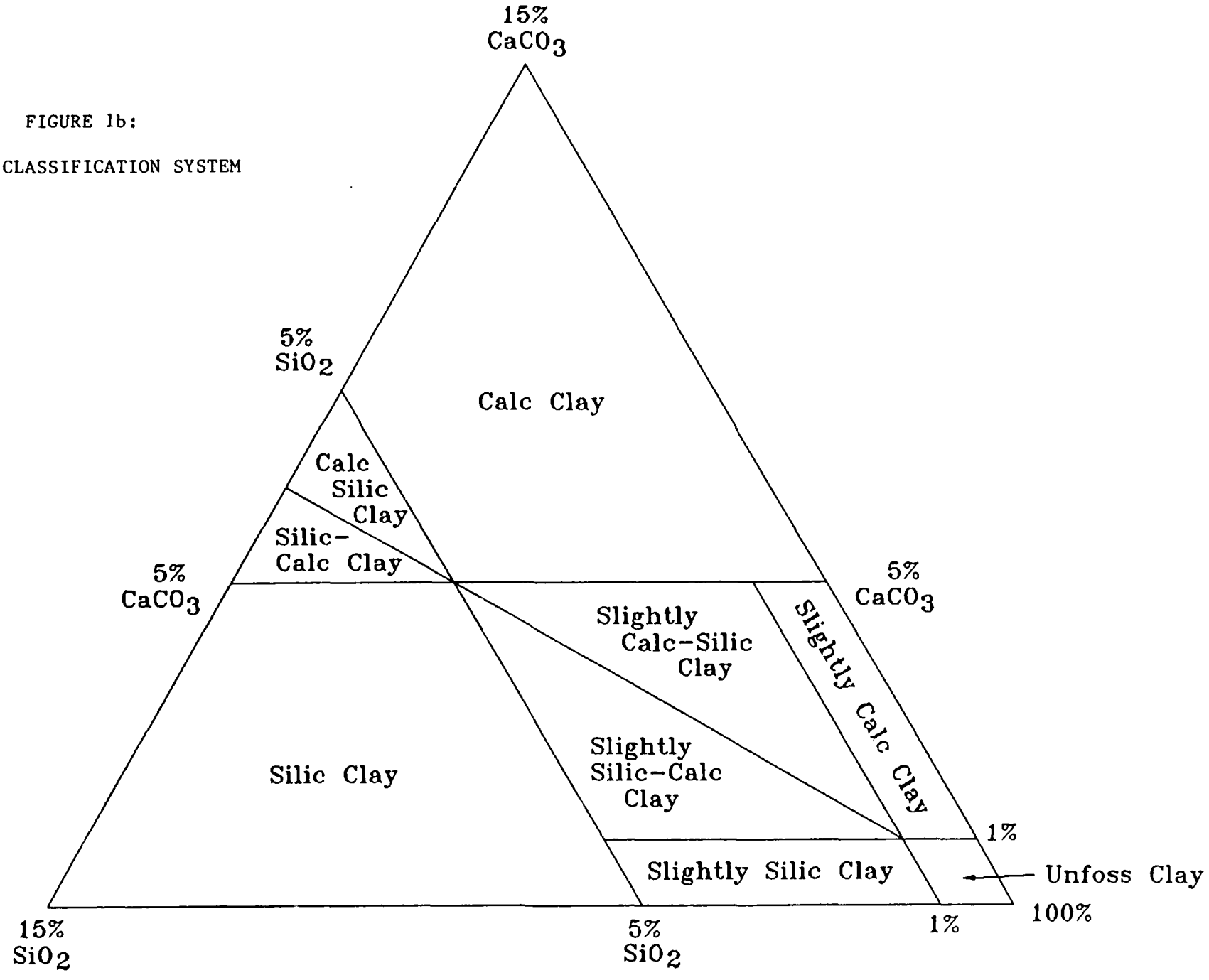
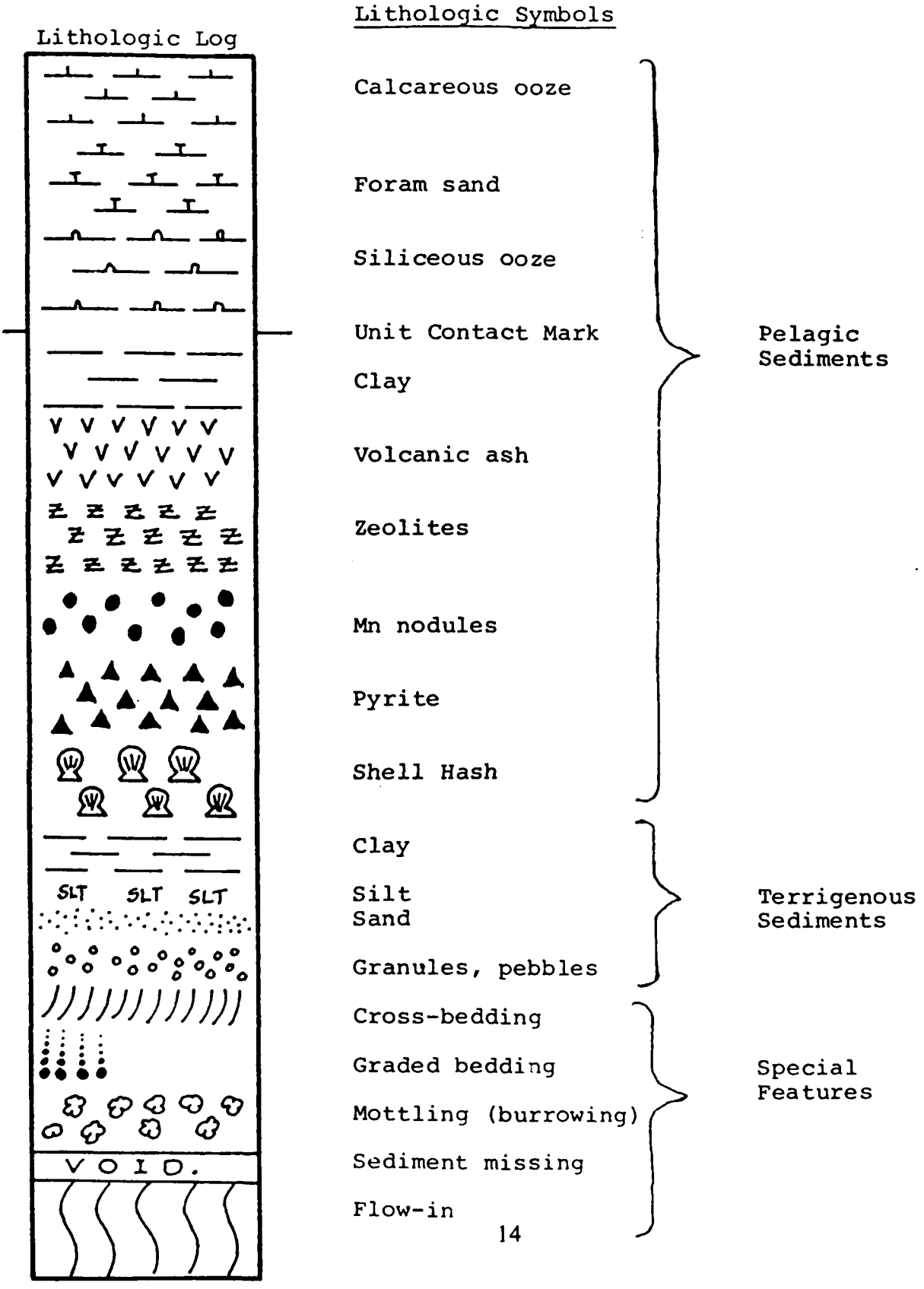


FIGURE 2: Lithologic Symbols



D. Digitization of Geological Sample Data

All logistical information about geological samples in the W.H.O.I. core collection is stored on computer disk and is accessible through computer program MUDDIE. In addition to this data, a summary of the descriptive information for each core has been put into digital form to allow rapid retrieval. Stored information about the samples may be retrieved according to combinations of any of the following parameters: ship, cruise, and leg number; latitude and longitude limits; Marsden Square number(s); water depth interval; core lengths; specific or general sampling device; physiographic province; and rock or sediment type. The program is on line on the Institution's VAX/VMS, and core lab PC's. Any investigator need only write, or call the Curator (508 457-2000, ext. 2466) for a current listing of cores in the collection that meet his specifications.

The following summary explains the coded terms used in the computer listings of samples in this report:

Ship Code

The three letter codes and ship names used in the data base are shown below.

ATL - Atlantis
AST - Asterias
BSM - Bjarni Saemundsson
CIS - Columbus Iselin
GOS - Gosnold
LLN - U.S. Long Lines
OCE - Oceanus
ZZZ - Misc. (African Lakes)
AII - Atlantis II
ALB - Albatross
CHN - Chain
END - Endeavor
KNR - Knorr
MWV - Moana Wave
SHK - Shackleton

Sample Device

The sampling devices used to collect an individual sample are indicated by the following two-digit codes. In cases where various instruments have been added to the primary sampling device, an entry has been made in the VITA CODE column.

01 Campbell Grab
02 Smith-McIntyre Grab
03 Van Veen Grab
04 Dietz-La Fond Snapper
05 Scoopfish
06 Underway Bottom Sampler
07 Pipe Dredge
08 Chain Bag Dredge
09 Anchor Dredge
10 Pipe Dredge, 3 inch
11 Pebble Dredge
12 Pierce Dredge
13 Gravity Core
14 Camera Core
15 Piston Core
16 Giant Piston Core
17 Giant Gravity Core
18 Free Fall Core (Benthos Type)

19 Box Core
20 Kasten Core
21 Hard rock Core Drill
22 Kennecott Grab
23 Alvin Sediment Core Drill
24 Alvin Manipulator
25 Williams Rock Drill
26 Pilot Core

Fix Type

Types of navigational equipment used to determine the sample location are as follows:

00 Unspecified - (Comment in REMARKS or on COMMENT CARTD)
01 Dead Reckoning
02 Visual Bearing
03 Radar Fix
04 Celestial
05 Loran A
06 Loran C
07 VLF
08 Omega
09 Satellite/GPS
10 Radar Transponder Buoy
11 Bottom Transponder
12 Final Navigation File*

*Satellite fixes updated by continuous monitoring of ship's speed and heading via gravity acquisition system

Physiographic Province

A general physiographic location has been assigned to each of the samples listed, and can be decoded as follows:

01 Insular Shelf
02 Continental Shelf (along continental margin)
03 Insular Slope
04 Continental Slope
05 Insular Rise
06 Continental Rise
07 Marginal Plateau or Borderland, deeper than 100 fms (e.g., Blake Plateau)
08 (Discontinued)
09 Archipelagic Apron
10 Abyssal Plain
11 Abyssal Hills
12 Seamount or Seamount Province
13 Aseismic Oceanic Rise or Ridge (e.g., Rio Grande Rise, Walvis Ridge)
14 Ridge Crest
15 Ridge Flank
16 Axial Valley
17 Trench - Insular
18 Trench - Continental Margin

Physiographic Province (cont'd)

19 Fracture Zone
20 Marginal Sea (e.g. Sea of Okhotsk, North Sea)
21 Small Ocean Basin (e.g., Red Sea, Caribbean Sea)
22 Inland Fresh Water Lake (e.g., African Lakes)
23 Harbor, Shallow Bay (e.g., Buzzards Bay)
24 Delta or Cone (e.g., Amazon Cone)
25 Submarine Canyon (e.g., Hudson Canyon)
26 Mid-Ocean Canyon or Channel (e.g , Maury Channel)
99 Unspecified: (Comment in REMARKS or on a COMMENT CARD)

Sediment Type

A four-digit code has been utilized to produce a rough description for each sediment sample listed. The first and second digits refer to the primary and secondary sediment types found with the sample. Both digits are from the following list.

1 Unfossiliferous clay
2 Silty/sandy clay
3 Calcareous ooze
4 Calcareous clay
5 Siliceous ooze
6 Siliceous clay
7 Foraminiferal sand, pteropod sand
8 Inorganic silt, sand
9 Volcanic glass
0 Other

The third digit explains the relationship of the primary and secondary sediment types to one another.

1 Finely interbedded
2 Gradational contacts
3 Sharp contacts
4 Irregular or disturbed contacts
5 Entire core of uniform lithology
6 Contained in the same lithologic unit
7 Obscured
8 Visually indistinguishable
0 Other

The fourth digit is used to indicate special features occurring within the sample.

1 Graded bedding or cross-bedding
2 Extensive mottling or burrowing
3 Manganese or phosphate nodules
4 Granules or pebbles
5 Shells or shell fragments

6 Pyrite-rich sediment
7 Partially lithified sediment
8 More than one of the above
9 None
0 Other

Vita Code

The VITA Code is used to supplement the entry made in the DEVICE column and to provide a guide to additional types of data not covered in this listing.

40 with Camera
41 with Heat Flow outrigger probes
42 with Compass
43 with Nephelometer
44 with Velocimeter
45 with Temperature Pinger
46 with Compass and Heat Flow
47 with Camera and Compass
48 with Camera and Nephelometer
49 with Camera and Sound Velocimeter
50 with Camera and Temperature Pinger
51 with Heat Flow and Sound Velocimeter
52 with Heat Flow and Nephelometer
53 with Heat Flow and Temperature Pinger
54 with Camera, Heat Flow, and Compass
55 with Camera, Heat Flow, Compass, and Nephelometer
56 with Camera, Heat Flow, Compass, Nephelometer, and Sound Velocimeter
57 with Camera, Heat Flow, Compass, Nephelometer, Sound Velocimeter, and Temperature Pinger
58 with Camera, Heat Flow, Compass, and Temperature Pinger

E. Procedures for Obtaining Sediment Samples and Additional Core Data

The WHOI Sea Floor Samples Laboratory is prepared to furnish sediment samples and data to interested scientists, researchers, and students inside or outside WHOI who express a legitimate interest and need. Sediment sampling is normally permitted in reasonable quantities, though sampling of recently acquired cores (taken during the preceding two years) is subject to the approval of the appropriate cruise chief scientist or collector of the samples.

The following procedures will serve as a guide to individuals requesting samples:

1. Procedures for requesting samples

(1) Requests for samples may be sent directly to the staff scientist engaged in research on the samples, if this person is known. If not known, sample requests should be sent to the Curator's Office, McLean Laboratory, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543. (508 457-2000 ext. 2466) (Fax: 508 457-2183) EMAIL: MUD_JEB1@ RED.WHOI.EDU

(2) A request for samples should include a brief summary of the type of research to be undertaken, the nature of the laboratory facilities available, and the source of financial support available for the work. The names of associated investigators should be given, and the nature of their research, facilities, and funding should be indicated if different from that of the applicant.

(3) If the material requested is within the 2-year period of proprietary access, sample requests will be referred to the appropriate scientists for approval. Otherwise, sample requests will be reviewed by the curator's office.

(4) The curator's office, in consultation with the appropriate WHOI staff scientist, will advise on the availability of material and on any other conditions that may be appropriate to ensure effective utilization of the material.

2. Responsibilities of persons receiving samples

(1) The original alpha-numeric sample identifier should be used in published papers, or any departure from this scheme should be clearly equated with the original labeling system in published papers or data summaries. The W.H.O.I. labeling system will be explained in the information supplied with the samples.

(2) Published papers should acknowledge the source of samples and the appropriate grant or funding agency which supported the cruise recovering the samples. This information will be supplied at the time the samples are sent. These papers should also acknowledge the financial support responsible for maintaining the Woods Hole geological samples (NSF Grant No. OCE 1901734).

(3) Copies of all published papers, reports, or data summaries utilizing Woods Hole samples should be sent to the appropriate WHOI staff scientist and the WHOI curator.

(4) The researcher should return all unused samples or portions of samples to the curator at the completion of his work.

(5) Recipients of samples should not co-opt the services of other investigators or undertake research projects which differ substantially from work originally proposed, without obtaining the approval of the curator and the appropriate staff scientist.

ACKNOWLEDGMENTS

The Woods Hole Core Lab staff has received continuing support and encouragement from David A. Ross and G. Michael Purdy who have served as chairmen of the Geology and Geophysics Department. Financial support for the Woods Hole Core Lab operations has been provided by the National Science Foundation under Grant No. OCE 88-00693, and No OCE 1901734

We wish to thank Bill Dunkle and Marie Johnson for their assistance in locating original cruise records and station data and for cruise track maps.

The editors wish to thank Tom Davis and Bob Schneider for their valuable, individual contributions in the preparation of this volume.

Finally we wish to thank May Reed for her fine work in processing and proofing the core descriptions contained herein.

REFERENCES CITED

Broda, J.E. and Andrew, P.J. "Descriptions of W.H.O.I. Sediment Cores, Volume 7." Woods Hole Oceanographic Technical Report No. 85-8, 751 pp.

Broda, J.E. et al. "Descriptions of W.H.O.I. Sediment Cores, Volume 6." Woods Hole Oceanographic Technical Report No. 81-77, 704 pp.

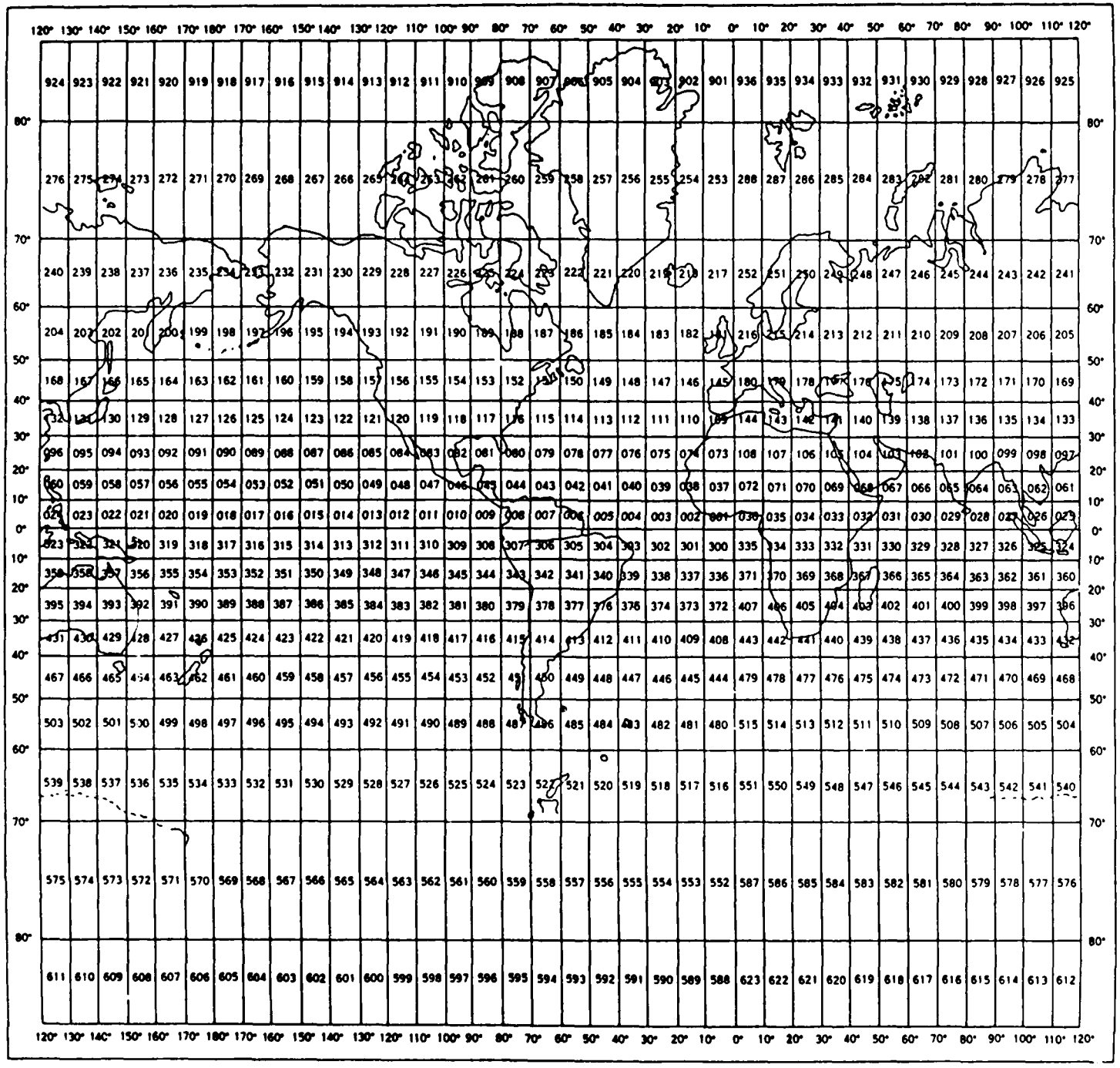
Johnson, D.A. and Driscoll, A.H., 1975 "Descriptions of W.H.O.I. Sediment Cores, Volumes 1-4." Woods Hole Oceanographic Technical Report No. 75-8, 2937 pp.

Johnson, D.A. and Driscoll, A.H., 1977 "Descriptions of W.H.O.I. Sediment Cores, Volume 5." Woods Hole Oceanographic Technical Report No. 77-26, 796 pp.

COMPUTER LISTING OF WHOI SEDIMENT CORES

(ARRANGED BY MARSDEN SQUARES)

Note: The following listing includes cores from all cruises described in Volumes 1 through 8. The listing may also include cores obtained during more recent cruises, even though the complete descriptions for these cores will appear in later volumes.



WOODS HOLE OCEANOGRAPHIC INSTITUTION

STATION DATA RETRIEVAL FILE

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
							MARSDEN SQUARE # 2										
AII	20	1	0003	0000	15	66 3 9	0 16.0'N	16 52.0'W	0	2.06	0003	5545.	1232.	0040	19		
CHN	17	1	0009	0000	15	61 5 1	1 29.0'N	19 43.0'W	0	2.19	0009	4275.	921.	0000	15		
END	66	1	0027	0000	17	81 528	2 54.0'N	19 56.2'W	1	2.29	0027	4840.	287.	0000	13	0332	
END	66	1	0028	0000	17	81 529	2 32.0'N	19 48.5'W	1	2.29	0028	4992.	289.	0000	13	3039	
END	66	1	0029	0000	17	81 529	2 27.6'N	19 45.7'W	1	2.29	0029	5105.	216.	0000	13	3032	
END	66	1	0030	0000	17	81 529	2 21.5'N	19 42.9'W	1	2.29	0030	5228.	128.	0000	13	0428	
END	66	1	0031	0000	17	81 529	2 12.7'N	19 40.9'W	1	2.29	0031	5321.	104.	0000	13	3038	
END	66	1	0032	0000	17	81 529	2 28.3'N	19 44.0'W	1	2.29	0032	4998.	155.	0000	13	3029	
END	66	1	0033	0000	17	81 529	2 38.6'N	19 45.1'W	1	2.29	0033	4848.	284.	0000	13	3339	
END	66	1	0034	0000	17	81 530	2 57.2'N	19 50.0'W	1	2.29	0034	4702.	294.	0000	13	3032	
CHN	99	3	0010	0000	15	70 516	5 5.0'N	19 32.0'W	4	2.59	0009	4522.	896.	0000	10	373854	
CHN	99	3	0010	0000	26	70 516	5 5.0'N	19 32.0'W	4	2.59	0009	4522.	154.	0000	10	466254	
END	66	1	0001	0000	26	81 524	8 58.5'N	19 52.0'W	1	2.89	0001	1063.	0.	0000	12		
END	66	1	0002	0000	26	81 524	8 56.4'N	19 54.8'W	9	2.89	0002	1817.	0.	0000	12		
CHN	115	1	0008	0000	15	7312 8	9 16.1'N	19 34.9'W	1	2.99	0008	4572.	881.	0000	13	343354	
CHN	115	1	0008	0000	26	7312 8	9 16.1'N	19 34.9'W	1	2.99	0008	4572.	155.	0000	13	335954	
CHN	115	1	0010	0000	15	7312 8	9 4.5'N	19 35.1'W	9	2.99	0009	4685.	880.	0000	13	353254	
CHN	115	1	0010	0000	26	7312 8	9 4.5'N	19 35.1'W	9	2.99	0009	4685.	151.	0000	13	335954	
CHN	115	1	0011	0000	15	7312 8	9 15.7'N	19 26.4'W	9	2.99	0010	4168.	885.	0000	13	302254	
CHN	115	1	0011	0000	26	7312 8	9 15.7'N	19 26.4'W	9	2.99	0010	4168.	153.	0000	14	303254	
							MARSDEN SQUARE # 3										
CHN	35	1	0005	0000	15	63 414	0 16.0'N	28 49.0'W	0	3.08	0005	4315.	1042.	0000	15		
AII	20	1	0014	0000	15	66 323	0 39.9'N	29 17.5'W	0	3.09	0014	3800.	1040.	0059	15		
AII	20	1	0015	0000	18	66 324	0 40.7'N	29 18.5'W	0	3.09	0015	3475.	4.	0000	15		
AII	20	1	0017	0000	18	66 324	0 48.2'N	29 19.2'W	0	3.09	0017	3300.	62.	0000	15		
AII	20	1	0019	0000	18	66 324	0 50.6'N	29 19.8'W	0	3.09	0019	2605.	31.	0000	15		
CHN	99	3	0011	0000	15	70 517	2 4.4'N	20 38.0'W	4	3.20	0010	4596.	1135.	0000	11	332254	
CHN	99	3	0011	0000	26	70 517	2 4.4'N	20 38.0'W	4	3.20	0010	4596.	81.	0000	11	308254	
END	66	1	0024	0000	17	81 528	3 50.8'N	20 22.0'W	1	3.30	0024	4518.	298.	0000	13	3322	
END	66	1	0025	0000	17	81 528	3 32.4'N	20 13.5'W	1	3.30	0025	4630.	286.	0000	13	3038	
END	66	1	0026	0000	17	81 528	3 5.1'N	20 0.9'W	1	3.30	0026	4745.	292.	0000	13	3022	
END	66	1	0021	0000	17	81 527	4 14.0'N	20 37.5'W	1	3.40	0021	3792.	274.	0000	13	3322	
END	66	1	0022	0000	17	81 528	4 10.1'N	20 35.2'W	1	3.40	0022	4079.	0.	0000	13		
END	66	1	0023	0000	17	81 528	4 10.8'N	20 32.1'W	1	3.40	0023	4122.	261.	0000	13	3022	
END	66	1	0035	0000	17	81 530	4 9.8'N	20 11.3'W	1	3.40	0035	4430.	81.	0000	13	0328	
END	66	1	0036	0000	17	81 530	4 18.3'N	20 12.7'W	1	3.40	0036	4095.	287.	0000	13	0329	

MARSDEN SQUARE # 3

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
END	66	1	0037	0000	15	81 530	4 48.8'N	20 24.8'W	1	3.40	0037	3009.	1037.	0000	13	3328	
END	66	1	0037	0000	26	81 530	4 48.8'N	20 24.8'W	1	3.40	0037	3009.	152.	0000	13	3029	
END	66	1	0038	0000	17	81 531	4 55.1'N	20 29.9'W	1	3.40	0038	2937.	247.	0000	13	3329	
END	66	1	0019	0000	17	81 527	5 8.2'N	20 59.8'W	1	3.50	0019	2701.	0.	0000	13		
END	66	1	0020	0000	17	81 527	5 5.0'N	20 59.2'W	1	3.50	0020	2756.	80.	0000	13	3329	
END	66	1	0039	0000	17	81 531	5 4.3'N	20 52.0'W	1	3.50	0039	2823.	276.	0000	13	3329	
END	66	1	0041	0000	17	81 531	5 8.3'N	20 58.8'W	1	3.50	0041	2632.	0.	0000	13		
END	66	1	0013	0000	17	81 526	5 56.8'N	21 26.0'W	9	3.51	0013	3635.	53.	0000	13	0329	
END	66	1	0014	0000	17	81 526	5 36.0'N	21 16.1'W	1	3.51	0014	3338.	272.	0000	13	3029	
END	66	1	0015	0000	17	81 527	5 32.8'N	21 13.0'W	1	3.51	0015	3247.	184.	0000	13	3329	
END	66	1	0016	0000	17	81 527	5 27.2'N	21 8.6'W	1	3.51	0016	3160.	188.	0000	13	3329	
END	66	1	0017	0000	17	81 527	5 22.0'N	21 5.3'W	1	3.51	0017	3014.	269.	0000	13	3329	
END	66	1	0018	0000	17	81 527	5 11.0'N	21 1.2'W	1	3.51	0018	2683.	0.	0000	13		
END	66	1	0040	0000	17	81 531	5 7.5'N	21 2.2'W	1	3.51	0040	2737.	7.	0000	13		
END	66	1	0042	0000	17	81 531	5 10.0'N	21 1.7'W	1	3.51	0042	2666.	54.	0000	13	3329	
END	66	1	0043	0000	17	81 531	5 15.8'N	21 38.3'W	1	3.51	0043	3187.	275.	0000	13	3331	
END	66	1	0044	0000	17	81 6 1	5 15.8'N	21 42.7'W	1	3.51	0044	3423.	301.	0000	13	3329	
END	66	1	0045	0000	17	81 6 1	5 18.1'N	21 55.6'W	1	3.51	0045	3654.	298.	0000	13	3029	
END	66	1	0046	0000	17	81 6 1	5 17.8'N	22 1.6'W	1	3.52	0046	3623.	295.	0000	13	3029	
END	66	1	0047	0000	17	81 6 1	5 18.8'N	22 11.8'W	1	3.52	0047	3960.	285.	0000	13	3022	
END	66	1	0048	0000	15	81 6 1	5 20.2'N	22 22.5'W	9	3.52	0048	4085.	1156.	0000	13	3320	
END	66	1	0048	0000	26	81 6 1	5 20.2'N	22 22.5'W	9	3.52	0048	4085.	160.	0000	13	0329	
END	66	1	0049	0000	15	81 6 1	5 22.5'N	22 40.6'W	1	3.52	0049	4246.	1094.	0000	13	3429	
END	66	1	0049	0000	26	81 6 1	5 22.5'N	22 40.6'W	1	3.52	0049	4246.	159.	0000	13	3029	
END	66	1	0051	0000	17	81 6 2	5 25.1'N	22 41.6'W	1	3.52	0051	4263.	291.	0000	13	3439	
CHN	17	1	0011	0000	15	61 5 2	5 15.0'N	23 30.0'W	0	3.53	0011	4380.	1160.	0000	15		
END	66	1	0052	0000	17	81 6 2	5 29.2'N	23 12.0'W	1	3.53	0052	4388.	194.	0000	13	3032	
END	66	1	0004	0000	26	81 525	6 56.3'N	21 55.0'W	1	3.61	0004	1161.	0.	0000	12		
END	66	1	0005	0000	26	81 525	6 51.8'N	21 56.2'W	9	3.61	0005	1151.	0.	0000	12		
END	66	1	0008	0000	26	81 525	6 44.2'N	21 54.0'W	1	3.61	0008	3338.	0.	0000	12		
END	66	1	0009	0000	26	81 525	6 39.8'N	21 53.9'W	1	3.61	0009	3521.	93.	0000	12	3039	
END	66	1	0010	0000	17	81 526	6 38.4'N	21 53.8'W	1	3.61	0010	3527.	303.	0000	12	3039	
END	66	1	0011	0000	17	81 526	6 1.3'N	21 53.8'W	1	3.61	0011	3695.	153.	0000	13	0329	
END	66	1	0012	0000	17	81 521	6 25.0'N	21 41.1'W	1	3.61	0012	3797.	306.	0000	13	0321	
END	66	1	0003	0000	26	81 525	7 55.9'N	21 0.3'W	1	3.71	0003	1487.	0.	0000	12		
CHN	115	1	0007	0000	15	7312 7	9 8.0'N	20 3.1'W	1	3.90	0007	3806.	870.	0000	13	358241	
CHN	115	1	0007	0000	26	7312 7	9 8.0'N	20 3.1'W	1	3.90	0007	3806.	103.	0000	13	352241	
CHN	115	1	0006	0000	15	7312 6	9 30.0'N	22 1.0'W	1	3.92	0006	4800.	870.	0000	10	062254	
CHN	115	1	0006	0000	26	7312 6	9 30.0'N	22 1.0'W	1	3.92	0006	4800.	153.	0000	10	646254	
CHN	115	1	0005	0000	15	7312 4	9 46.4'N	25 59.1'W	9	3.95	0005	5644.	87.	0000	10	335954	
CHN	115	1	0005	0000	26	7312 4	9 46.4'N	25 59.1'W	9	3.95	0005	5644.	151.	0000	10	343054	

MARSDEN SQUARE # 4

CHN	35	1	0003	0000	15	63 414	0 21.0'S	30 0.5'W	0	4.00	0003	4520.	1043.	0000	15		
CHN	35	1	0006	0000	15	63 415	0 40.0'S	33 37.0'W	0	4.03	0006	4692.	1016.	0000	15		
CHN	35	1	0007	0000	15	63 416	0 41.0'N	35 0.0'W	0	4.05	0007	4494.	701.	0000	15		
AII	60	2	0006	0000	15	71 218	0 53.9'N	38 23.7'W	9	4.08	0006	4488.	290.	0000	10	393241	
AII	60	2	0006	0000	26	71 218	0 53.9'N	38 23.7'W	9	4.08	0006	4488.	49.	0000	10	393200	

MARSDEN SQUARE # 4

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE

MARSDEN SQUARE # 5

AII	20	1	0022	0000	18	66 410	1 7.5'N	44 34.0'W	0	5.14	0022	3910.	82.	0000	4		
AII	20	1	0023	0000	15	66 412	1 7.0'N	44 40.0'W	0	5.14	0023	3910.	0.	0029	4		
CHN	115	8	0159	0000	13	74 617	1 12.2'N	48 50.9'W	1	5.18	0093	8.	78.	0000	2	181900	
CHN	115	8	0160	0000	13	74 617	1 37.5'N	49 1.0'W	1	5.19	0094	10.	128.	0000	2	186100	
KNR	110	2	0037	0000	15	8411 4	4 57.2'N	42 54.9'W	9	5.42	0054	4458.	915.	0000	13	3128	
KNR	110	2	0037	0000	26	8411 4	4 57.3'N	42 54.9'W	9	5.42	0054	4458.	56.	0000	13	3338	
KNR	110	2	0037	0000	17	8411 5	4 56.9'N	42 53.5'W	9	5.42	0055	4556.	322.	0000	13	1302	
KNR	110	2	0039	0000	15	8411 5	4 43.5'N	42 54.8'W	9	5.42	0059	4545.	1076.	0000	13	1382	
KNR	110	2	0039	0000	26	8411 5	4 43.5'N	42 54.8'W	9	5.42	0059	4545.	129.	0000	13	1322	
KNR	110	2	0027	0000	17	8411 3	4 44.0'N	43 47.0'W	0	5.43	0039	3370.	343.	0000	13	3102	
KNR	110	2	0028	0000	17	8411 3	4 43.6'N	43 45.4'W	8	5.43	0040	3300.	313.	0000	13	3308	
KNR	110	2	0028	0000	15	8411 3	4 44.0'N	43 47.1'W	9	5.43	0041	3315.	1001.	0000	13	3322	
KNR	110	2	0028	0000	26	8411 3	4 44.0'N	43 47.1'W	9	5.43	0041	3315.	81.	0000	13	3308	
KNR	110	2	0029	0000	17	8411 3	4 44.2'N	43 40.0'W	8	5.43	0042	3451.	325.	0000	13		
KNR	110	2	0029	0000	15	8411 3	4 43.3'N	43 39.1'W	8	5.43	0043	3436.	1155.	0000	13	3102	
KNR	110	2	0029	0000	26	8411 3	4 43.3'N	43 39.1'W	8	5.43	0043	3436.	80.	0000	13	1322	
KNR	110	2	0030	0000	15	8411 3	4 45.3'N	43 31.9'W	9	5.43	0044	3562.	359.	0000	13	1102	
KNR	110	2	0031	0000	17	8411 3	4 46.9'N	43 29.2'W	8	5.43	0045	3669.	93.	0000	13	3308	
KNR	110	2	0031	0000	15	8411 4	4 46.3'N	43 27.4'W	8	5.43	0046	3689.	1116.	0000	13	1322	
KNR	110	2	0031	0000	26	8411 4	4 46.3'N	43 27.4'W	8	5.43	0046	3689.	98.	0000	13	3122	
KNR	110	2	0032	0000	17	8411 4	4 48.9'N	43 24.3'W	8	5.43	0047	3765.	346.	0000	13		
KNR	110	2	0033	0000	17	8411 4	4 51.3'N	43 18.8'W	8	5.43	0048	3892.	347.	0000	13	1102	
KNR	110	2	0033	0000	15	8411 4	4 50.0'N	43 17.0'W	9	5.43	0049	3908.	1019.	0000	13	1102	
KNR	110	2	0033	0000	26	8411 4	4 50.0'N	43 17.0'W	9	5.43	0049	3908.	93.	0000	13	3102	
KNR	110	2	0034	0000	17	8411 4	4 51.9'N	43 12.3'W	9	5.43	0050	3995.	343.	0000	13	1122	
KNR	110	2	0035	0000	17	8411 4	4 54.0'N	43 8.0'W	8	5.43	0051	4097.	394.	0000	13	3108	
KNR	110	2	0035	0000	15	8411 4	4 53.9'N	43 7.6'W	8	5.43	0052	4158.	1173.	0000	13	1302	
KNR	110	2	0035	0000	26	8411 4	4 53.9'N	43 7.6'W	8	5.43	0052	4158.	113.	0000	13	3102	
KNR	110	2	0036	0000	17	8411 4	4 55.5'N	43 2.5'W	9	5.43	0053	4300.	455.	0000	13	3302	
KNR	110	2	0040	0000	17	8411 5	4 47.5'N	43 2.3'W	9	5.43	0058	4341.	308.	0000	13	3122	
KNR	110	2	0040	0000	15	8411 5	4 47.0'N	43 1.9'W	9	5.43	0060	4300.	1070.	0000	13	3102	
KNR	110	2	0040	0000	26	8411 5	4 47.0'N	43 1.9'W	9	5.43	0060	4300.	121.	0000	13	3108	
KNR	110	2	0041	0000	17	8411 5	4 44.9'N	43 4.4'W	8	5.43	0061	4041.	418.	0000	13	3732	
KNR	110	2	0041	0000	15	8411 6	4 45.1'N	43 3.0'W	8	5.43	0062	4046.	793.	0000	13	3322	
KNR	110	2	0041	0000	26	8411 6	4 45.1'N	43 3.0'W	8	5.43	0062	4046.	111.	0000	13	3328	
KNR	110	2	0042	0000	17	8411 6	4 43.3'N	43 7.9'W	8	5.43	0063	3892.	328.	0000	13	3102	
KNR	110	2	0042	0000	15	8411 6	4 42.4'N	43 8.8'W	9	5.43	0064	3750.	1138.	0000	13	3328	
KNR	110	2	0042	0000	26	8411 6	4 42.4'N	43 8.8'W	9	5.43	0064	3750.	127.	0000	13	3102	
KNR	110	2	0043	0000	17	8411 6	4 35.5'N	43 20.1'W	8	5.43	0065	3628.	335.	0000	13	3308	
KNR	110	2	0044	0000	17	8411 6	4 33.8'N	43 22.9'W	8	5.43	0066	3547.	297.	0000	13	3102	
KNR	110	2	0044	0000	15	8411 6	4 34.5'N	43 21.9'W	8	5.43	0067	3608.	1080.	0000	13	1322	
KNR	110	2	0044	0000	26	8411 6	4 34.5'N	43 21.9'W	8	5.43	0067	3608.	140.	0000	13	3102	
KNR	110	2	0045	0000	17	8411 6	4 32.8'N	43 22.4'W	9	5.43	0068	3547.	335.	0000	13	3328	
KNR	110	2	0046	0000	17	8411 6	4 24.6'N	43 36.0'W	8	5.43	0069	3259.	310.	0000	13		
KNR	110	2	0046	0000	15	8411 7	4 24.5'N	43 36.0'W	8	5.43	0070	3274.	1140.	0000	13	3308	
KNR	110	2	0047	0000	17	8411 7	4 21.8'N	43 41.8'W	8	5.43	0071	3164.	335.	0000	13	1302	

MARSDEN SQUARE # 5

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	110	2	0047	0000	15	8411 7	4 22.0'N	43 40.2'W	9	5.43	0072	3194.	967.	0000	13	3302	
KNR	110	2	0047	0000	26	8411 7	4 22.0'N	43 40.2'W	9	5.43	0072	3194.	74.	0000	13	3322	
KNR	110	2	0048	0000	17	8411 7	4 21.3'N	43 29.2'W	8	5.43	0073	2952.	169.	0000	13	3332	
KNR	110	2	0049	0000	17	8411 7	4 19.8'N	43 25.4'W	8	5.43	0074	2987.	302.	0000	13	3308	
KNR	110	2	0049	0000	17	8411 7	4 20.5'N	43 24.5'W	0	5.43	0075	3063.	355.	0000	13	3322	
KNR	110	2	0049	0000	15	8411 7	4 19.3'N	43 26.7'W	9	5.43	0076	3149.	1021.	0000	13	3302	
KNR	110	2	0049	0000	26	8411 7	4 19.3'N	43 26.7'W	9	5.43	0076	3149.	134.	0000	13	3300	
KNR	110	2	0050	0000	17	8411 7	4 19.6'N	43 25.7'W	9	5.43	0077	2977.	307.	0000	13	3308	
KNR	110	2	0050	0000	15	8411 7	4 19.8'N	43 23.6'W	9	5.43	0078	3088.	1089.	0000	13	3328	
KNR	110	2	0050	0000	26	8411 7	4 19.8'N	43 23.6'W	9	5.43	0078	3088.	121.	0000	13	3302	
KNR	110	2	0051	0000	17	8411 8	4 19.5'N	43 30.2'W	8	5.43	0079	2821.	331.	0000	13	3308	
KNR	110	2	0051	0000	15	8411 8	4 21.2'N	43 26.7'W	1	5.43	0080	2826.	917.	0000	13	3302	
KNR	110	2	0051	0000	17	8411 8	4 21.4'N	43 26.2'W	8	5.43	0081	2881.	454.	0000	13	3352	
KNR	110	2	0052	0000	17	8411 8	4 20.2'N	43 29.2'W	9	5.43	0082	2816.	340.	0000	13	1332	
KNR	110	2	0053	0000	17	8411 8	4 21.1'N	43 31.8'W	8	5.43	0083	2912.	326.	0000	13	3338	
KNR	110	2	0053	0000	19	8411 8	4 21.7'N	43 30.6'W	8	5.43	0084	2947.	30.	0000	13	3352	
KNR	110	2	0054	0000	17	8411 8	4 26.0'N	43 31.2'W	8	5.43	0085	3174.	314.	0000	13	3102	
KNR	110	2	0054	0000	19	8411 8	4 26.6'N	43 29.0'W	9	5.43	0086	3320.	36.	0000	13	3758	
KNR	110	2	0055	0000	17	8411 8	4 37.1'N	43 40.2'W	8	5.43	0087	2776.	315.	0000	13	3308	
KNR	110	2	0055	0000	19	8411 9	4 37.9'N	43 39.0'W	8	5.43	0088	2952.	30.	0000	13	3752	
KNR	110	2	0056	0000	17	8411 9	4 42.1'N	43 28.6'W	9	5.43	0089	3613.	315.	0000	13	3308	
KNR	110	2	0056	0000	19	8411 9	4 42.8'N	43 25.3'W	9	5.43	0090	3654.	30.	0000	13	3352	
KNR	110	2	0057	0000	17	8411 9	4 45.6'N	43 18.4'W	8	5.43	0091	3810.	364.	0000	13	3102	
KNR	110	2	0057	0000	19	8411 9	4 46.4'N	43 16.5'W	8	5.43	0092	3882.	30.	0000	13	3752	
KNR	110	2	0058	0000	17	8411 9	4 51.2'N	43 8.5'W	9	5.43	0093	4056.	361.	0000	13	3308	
KNR	110	2	0058	0000	19	8411 9	4 52.5'N	43 4.8'W	9	5.43	0094	4107.	30.	0000	13	3752	
KNR	110	2	0059	0000	17	8411 9	4 52.9'N	43 1.7'W	9	5.43	0095	4260.	388.	0000	13	3328	
KNR	110	2	0059	0000	19	841110	4 52.1'N	42 58.8'W	8	5.43	0096	4427.	30.	0000	13	3332	
KNR	110	2	0038	0000	15	8411 5	4 59.7'N	42 46.5'W	8	5.52	0056	4638.	1067.	0000	13	3108	
KNR	110	2	0038	0000	26	8411 5	4 59.7'N	42 46.5'W	8	5.52	0056	4638.	140.	0000	13	3132	
KNR	110	2	0038	0000	17	8411 5	5 1.5'N	42 43.6'W	9	5.52	0057	4566.	334.	0000	13		
KNR	110	2	0060	0000	17	841110	5 4.8'N	42 49.5'W	8	5.52	0097	4556.	341.	0000	13	3138	
KNR	110	2	0061	0000	19	841110	5 9.0'N	42 44.2'W	9	5.52	0099	4643.	30.	0000	13	3352	
AII	60	2	0005	0000	15	71 216	5 1.0'N	44 14.0'W	1	5.54	0005	3706.	219.	0000	11	332241	
AII	60	2	0005	0000	26	71 216	5 1.0'N	44 14.0'W	1	5.54	0005	3706.	98.	0000	11	332200	
KNR	110	2	0001	0000	17	841029	5 59.1'N	44 57.8'W	9	5.54	0001	3375.	300.	0000	13	1182	
KNR	110	2	0002	0000	17	841030	5 52.3'N	44 56.0'W	9	5.54	0002	3502.	340.	0000	13	3332	
KNR	110	2	0003	0000	17	841030	5 45.2'N	44 50.5'W	8	5.54	0003	3613.	5.	0000	13	0000	
KNR	110	2	0003	0000	17	841030	5 44.3'N	44 50.3'W	9	5.54	0004	3739.	175.	0000	13	3832	
KNR	110	2	0004	0000	17	841030	5 39.5'N	44 46.0'W	9	5.54	0005	3144.	282.	0000	13	1322	
KNR	110	2	0005	0000	17	841030	5 41.6'N	44 43.3'W	9	5.54	0006	3296.	280.	0000	13	1102	
KNR	110	2	0005	0000	17	841030	5 41.8'N	44 44.4'W	8	5.54	0007	3547.	462.	0000	13	1302	
KNR	110	2	0006	0000	17	841030	5 47.4'N	44 37.8'W	8	5.54	0008	3674.	191.	0000	13	3302	
KNR	110	2	0007	0000	17	841030	5 49.6'N	44 35.2'W	8	5.54	0009	3643.	280.	0000	13	3102	
KNR	110	2	0007	0000	17	841031	5 50.4'N	44 35.3'W	8	5.54	0010	3659.	437.	0000	13	3302	
KNR	110	2	0008	0000	17	841031	5 53.1'N	44 30.3'W	8	5.54	0011	3729.	295.	0000	13	3132	
KNR	110	2	0009	0000	17	841031	5 58.0'N	44 27.7'W	9	5.54	0012	3969.	286.	0000	13	3102	
KNR	110	2	0009	0000	17	841031	5 56.7'N	44 27.8'W	9	5.54	0013	3750.	446.	0000	13	1102	
KNR	110	2	0018	0000	17	8411 1	5 43.4'N	44 2.9'W	9	5.54	0025	4031.	52.	0000	13	3308	
KNR	110	2	0018	0000	17	8411 2	5 42.5'N	44 2.5'W	8	5.54	0026	4025.	474.	0000	13	3328	

MARSDEN SQUARE # 5

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	110	2	0019	0000	17	8411 2	5 36.5'N	44 4.7'W	9	5.54	0027	3867.	356.	0000	13	3308	
KNR	110	2	0020	0000	17	8411 2	5 34.1'N	44 4.9'W	8	5.54	0028	3790.	326.	0000	13	3302	
KNR	110	2	0020	0000	17	8411 2	5 32.8'N	44 3.1'W	8	5.54	0029	3739.	384.	0000	13	1302	
KNR	110	2	0021	0000	17	8411 2	5 28.5'N	44 4.1'W	1	5.54	0030	3603.	392.	0000	13	3338	
KNR	110	2	0022	0000	17	8411 2	5 26.8'N	44 3.4'W	9	5.54	0031	3532.	356.	0000	13	1102	
KNR	110	2	0022	0000	17	8411 2	5 26.1'N	44 3.1'W	9	5.54	0032	3507.	336.	0000	13	3308	
KNR	110	2	0023	0000	17	8411 2	5 22.6'N	44 3.7'W	9	5.54	0033	3400.	273.	0000	13	1322	
KNR	110	2	0024	0000	17	8411 3	5 16.4'N	44 3.7'W	8	5.54	0034	3292.	373.	0000	13	3308	
KNR	110	2	0024	0000	17	8411 2	5 14.3'N	44 3.6'W	9	5.54	0035	3274.	386.	0000	13	3308	
KNR	110	2	0025	0000	17	8411 2	5 13.1'N	44 4.2'W	9	5.54	0036	3254.	390.	0000	13	1102	
KNR	110	2	0026	0000	17	8411 3	5 8.0'N	44 1.7'W	9	5.54	0037	3189.	428.	0000	13	3308	
KNR	110	2	0026	0000	17	8411 3	5 9.3'N	44 1.0'W	1	5.54	0038	3199.	358.	0000	13	1122	
KNR	110	2	0010	0000	17	841031	6 0.5'N	44 23.5'W	8	5.64	0014	4019.	284.	0000	13	3102	
KNR	110	2	0011	0000	17	841031	6 6.5'N	44 17.2'W	9	5.64	0015	4295.	370.	0000	13	1102	
KNR	110	2	0011	0000	17	841031	6 7.4'N	44 18.0'W	8	5.64	0016	4336.	439.	0000	13	1102	
KNR	110	2	0012	0000	17	841031	6 13.3'N	44 13.3'W	9	5.64	0017	4468.	400.	0000	13	3138	
KNR	110	2	0013	0000	17	8411 1	6 18.6'N	44 4.8'W	9	5.64	0018	4576.	356.	0000	13	1332	
KNR	110	2	0013	0000	17	8411 1	6 17.3'N	44 4.5'W	8	5.64	0019	4576.	457.	0000	13	1308	
KNR	110	2	0014	0000	17	8411 1	6 12.8'N	44 5.3'W	9	5.64	0020	4489.	335.	0000	13	3132	
KNR	110	2	0015	0000	17	8411 1	6 7.4'N	44 4.5'W	9	5.64	0021	4366.	384.	0000	13	3888	
KNR	110	2	0015	0000	17	8411 1	6 7.6'N	44 3.9'W	8	5.64	0022	4371.	457.	0000	13	1302	
KNR	110	2	0016	0000	17	8411 1	6 1.8'N	44 4.6'W	9	5.64	0023	4209.	382.	0000	13	3102	
KNR	110	2	0017	0000	17	8411 1	6 0.3'N	44 5.4'W	8	5.64	0024	4133.	366.	0000	13	3108	
AII	20	1	0024	0000	15	66 414	7 20.0'N	45 41.0'W	0	5.75	0024	4400.	0.	0096	21		
AII	20	1	0025	0000	15	66 414	7 30.0'N	45 46.0'W	0	5.75	0025	4410.	33.	0128	21		
AII	20	1	0026	0000	15	66 414	7 30.0'N	45 42.0'W	0	5.75	0026	4410.	20.	0000	21		
AII	20	1	0027	0000	15	66 415	7 44.0'N	46 49.0'W	0	5.75	0027	4450.	112.	0000	21		
AII	20	1	0030	0000	15	66 419	9 36.0'N	40 37.0'W	0	5.90	0030	3390.	17.	0000	16		
AII	20	1	0033	0000	15	66 421	9 42.0'N	40 56.0'W	0	5.90	0033	2490.	49.	0000	15		
AII	31	1	0011	0000	15	67 418	9 58.0'N	40 51.3'W	1	5.90	0011	3469.	182.	0000	19	386900	
AII	31	1	0011	0000	26	67 418	9 58.0'N	40 51.3'W	1	5.90	0011	3469.	45.	0000	19	332200	
AII	20	1	0034	0000	13	66 421	9 37.0'N	41 12.0'W	0	5.91	0034	3200.	47.	0000	15		
AII	20	1	0036	0000	18	66 421	9 36.0'N	41 23.0'W	0	5.91	0036	3770.	98.	0000	15		
AII	20	1	0038	0000	18	66 422	9 33.0'N	41 40.0'W	0	5.91	0038	4110.	100.	0000	15		
AII	31	1	0010	0000	15	67 417	9 46.3'N	41 50.0'W	1	5.91	0010	3711.	314.	0000	19	004900	
AII	31	1	0009	0000	15	67 417	9 35.0'N	42 47.0'W	1	5.92	0009	4355.	577.	0000	19	334200	
AII	31	1	0009	0000	26	67 417	9 35.0'N	42 47.0'W	1	5.92	0009	4355.	121.	0000	19	334200	
AII	20	1	0031	0000	15	66 420	9 4.5'N	43 46.0'W	0	5.93	0031	4875.	975.	0000	15		
AII	31	1	0006	0000	15	67 415	9 38.5'N	43 37.0'W	4	5.93	0006	4757.	565.	0000	19	334900	
AII	20	1	0028	0000	15	66 418	9 11.0'N	47 2.0'W	0	5.97	0028	4710.	88.	0063	16		

MARSDEN SQUARE # 8

GOS	96	0	0004	0000	20	67 2 2	9 45.7'N	71 45.7'W	0	8.91	0001	31.	134.	0000	2	000000	
GOS	96	0	0005	0000	20	67 2 2	9 38.1'N	71 36.4'W	0	8.91	0001	25.	300.	0000	2	000000	
GOS	96	0	0006	0000	20	67 2 2	9 39.0'N	71 29.1'W	0	8.91	0001	30.	400.	0000	2	000000	
GOS	96	0	0009	0000	20	67 2 3	9 14.7'N	71 23.4'W	0	8.91	0001	23.	325.	0000	2	000000	
GOS	96	0	0013	0000	20	67 2 4	9 47.9'N	71 22.5'W	0	8.91	0001	28.	397.	0000	2	000000	
GOS	96	0	0017	0000	20	67 2 5	9 55.4'N	71 22.2'W	0	8.91	0001	33.	326.	0000	2	000000	

MARSDEN SQUARE # 8

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE

MARSDEN SQUARE # 9

KNR	64	3	0039	0000	15	77 226	0 35.7'N	86 5.4'W	11	9.06	0007	2737.	587.	0000	16	354300	
KNR	64	3	0046	0000	15	77 3 7	0 36.8'N	86 5.5'W	11	9.06	0008	2699.	783.	0000	16	354300	
KNR	64	3	0048	0000	15	77 3 8	0 41.5'N	86 4.5'W	9	9.06	0009	2691.	536.	0000	16	356700	
KNR	64	3	0061	0000	15	77 312	0 35.8'N	86 5.3'W	11	9.06	0010	2739.	453.	0000	16	003300	
KNR	64	3	0062	0000	17	77 312	0 35.8'N	86 8.0'W	11	9.06	0011	2650.	104.	0000	16	003300	
KNR	64	3	0062	0000	15	77 312	0 35.8'N	86 8.2'W	11	9.06	0012	2675.	544.	0000	16	356700	
KNR	64	3	0071	0000	17	77 314	0 36.7'N	86 5.4'W	11	9.06	0014	2729.	220.	0000	16	356700	
KNR	64	3	0085	0000	15	77 318	0 35.2'N	86 8.0'W	11	9.06	0015	2696.	243.	0000	16	356700	
KNR	64	3	0086	0000	15	77 318	0 35.8'N	86 5.6'W	11	9.06	0016	2735.	202.	0000	16	343300	
AII	54	2	0001	0000	15	6911 2	4 53.1'N	83 25.9'W	9	9.43	0001	3395.	868.	0000	11	356700	
AII	54	2	0001	0000	26	6911 2	4 53.1'N	83 25.9'W	9	9.43	0001	3395.	164.	0000	11	356900	

MARSDEN SQUARE # 11

AII	108	1	0008	0000	15	81 423	1 5.9'N	105 29.3'W	9	11.15	0004	3575.	583.	0000	11	0039	
AII	108	1	0008	0000	26	81 423	1 5.9'N	105 29.3'W	9	11.15	0004	3575.	138.	0000	11	0039	
AII	108	4	0009	0000	15	81 424	1 40.6'N	106 49.6'W	9	11.16	0005	3737.	595.	0000	15	0029	
AII	108	4	0009	0000	26	81 424	1 40.6'N	106 49.6'W	9	11.16	0005	3737.	123.	0000	15	0039	
AII	108	4	0010	0000	15	81 426	1 46.5'N	106 51.0'W	9	11.16	0006	3609.	464.	0000	15	0023	

MARSDEN SQUARE # 12

KNR	73	4	0007	0000	15	78 423	1 45.0'N	118 22.5'W	9	12.18	0017	4078.	869.	0000	11	00	
AII	108	4	0011	0000	26	81 428	3 55.9'N	114 11.1'W	9	12.34	0007	3969.	156.	0000	15	0022	
AII	108	4	0011	0000	15	81 428	3 55.9'N	114 11.1'W	9	12.34	0007	3969.	903.	0000	15	0059	
AII	108	4	0015	0000	15	81 5 3	3 58.9'N	114 41.5'W	9	12.34	0011	3866.	136.	0000	15	3022	
AII	108	4	0016	0000	15	81 5 4	3 58.5'N	114 36.6'W	9	12.34	0012	4046.	902.	0000	15	0329	
AII	108	4	0016	0000	26	81 5 4	3 58.5'N	114 36.6'W	9	12.34	0012	4046.	160.	0000	15	0322	
AII	108	4	0012	0000	26	81 429	4 4.3'N	114 11.9'W	9	12.44	0008	4049.	138.	0000	15	0329	
AII	108	4	0012	0000	15	81 429	4 4.3'N	114 11.9'W	9	12.44	0008	4049.	827.	0000	15	0339	
AII	108	4	0013	0000	26	81 430	4 1.9'N	114 11.2'W	9	12.44	0009	4021.	117.	0000	15	3329	
AII	108	4	0013	0000	15	81 430	4 1.9'N	114 11.2'W	9	12.44	0009	4021.	897.	0000	15	3329	
AII	108	4	0014	0000	26	81 5 2	4 6.6'N	114 40.4'W	9	12.44	0010	4101.	60.	0000	15	3022	
AII	108	4	0014	0000	15	81 5 2	4 6.6'N	114 40.4'W	9	12.44	0010	4101.	857.	0000	15	3329	
AII	108	4	0017	0000	15	81 5 5	4 3.3'N	114 37.9'W	9	12.44	0013	4053.	806.	0000	15	0322	
AII	108	4	0017	0000	26	81 5 5	4 3.3'N	114 37.9'W	9	12.44	0013	4053.	154.	0000	15	3029	
KNR	73	4	0005	0000	15	78 420	4 1.5'N	114 1.1'W	9	12.44	0005	3775.	896.	0000	12	00	
KNR	73	4	0011	0000	26	78 420	4 1.5'N	114 1.1'W	9	12.44	0005	3775.	135.	0000	12	356200	
KNR	73	4	0016	0000	15	78 422	4 0.1'N	114 11.2'W	9	12.44	0006	3805.	924.	0000	12	00	
KNR	73	4	0016	0000	26	78 422	4 0.1'N	114 11.2'W	9	12.44	0006	3805.	131.	0000	12	356200	

MARSDEN SQUARE # 13

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
KNR	73	4	0018	0000	15	78 425	1 31.0'N	123 52.8'W	9	13.13	0008	4560.	633.	0000	11	356200
KNR	73	4	0018	0000	26	78 425	1 31.0'N	123 52.8'W	9	13.13	0008	4560.	134.	0000	11	356200

MARSDEN SQUARE # 14

KNR	73	4	0026	0000	15	78 5 2	1 16.2'N	137 15.3'W	1	14.17	0011	4225.	1041.	0000	19	356200
KNR	73	4	0026	0000	26	78 5 2	1 16.2'N	137 15.3'W	1	14.17	0011	4225.	122.	0000	19	333200

MARSDEN SQUARE # 15

KNR	73	4	0029	0000	26	78 5 3	4 30.8'N	140 19.5'W	1	15.41	0012	4341.	127.	0000	12	335900

MARSDEN SQUARE # 29

CHN	100	5	0055	0000	15	71 5 4	1 27.2'N	70 47.0'E	1	29.10	0043	4230.	847.	0000	15	373100
CHN	100	5	0055	0000	26	71 5 4	1 27.2'N	70 47.0'E	1	29.10	0043	4230.	90.	0000	15	332900
CHN	100	5	0058	0000	15	71 5 7	1 20.8'N	75 38.5'E	1	29.15	0045	3524.	564.	0000	13	332900
CHN	100	5	0058	0000	26	71 5 7	1 20.8'N	75 38.5'E	1	29.15	0045	3524.	108.	0000	13	332900
CHN	100	5	0057	0000	15	71 5 6	1 19.3'N	76 53.6'E	1	29.16	0044	4367.	943.	0000	10	302100
CHN	100	5	0057	0000	26	71 5 6	1 19.3'N	76 53.6'E	1	29.16	0044	4367.	117.	0000	10	396900
CHN	100	5	0059	0000	15	71 5 9	1 26.2'N	79 9.0'E	1	29.19	0046	4475.	675.	0000	10	356700
CHN	100	5	0059	0000	26	71 5 9	1 26.2'N	79 9.0'E	1	29.19	0046	4475.	119.	0000	10	356700
AII	15	6	0629	0000	13	65 415	4 59.0'N	71 14.0'E	0	29.47	0629	4014.	76.	0000	11	403200
AII	15	5	0618	0000	13	65 4 7	7 1.5'N	73 24.0'E	9	29.73	0618	1800.	34.	0000	4	305900
AII	15	5	0617	0000	13	65 4 7	7 57.0'N	74 8.0'E	9	29.74	0617	2758.	73.	0000	10	434900
AII	15	5	0614	0000	13	65 4 6	9 57.0'N	74 11.0'E	9	29.94	0614	2480.	76.	0000	6	346900
AII	15	5	0614	0000	15	65 4 6	9 54.0'N	74 11.0'E	9	29.94	0021	2474.	500.	0000	6	343900
AII	15	5	0614	0000	26	65 4 6	9 54.0'N	74 11.0'E	9	29.94	0021	2474.	30.	0000	6	035500
AII	15	5	0615	0000	13	65 4 6	9 52.0'N	75 19.0'E	9	29.95	0615	1893.	73.	0000	6	445200

MARSDEN SQUARE # 30

CHN	100	5	0053	0000	15	71 5 2	1 33.5'N	65 40.1'E	1	30.15	0041	3433.	511.	0000	15	373100
CHN	100	5	0053	0000	26	71 5 2	1 33.5'N	65 40.1'E	1	30.15	0041	3433.	97.	0000	15	332200
CHN	100	5	0054	0000	15	71 5 3	1 21.4'N	68 45.6'E	1	30.18	0042	4078.	785.	0000	15	302900
CHN	100	5	0054	0000	26	71 5 3	1 21.4'N	68 45.6'E	1	30.18	0042	4078.	114.	0000	15	335200
AII	15	4	0572	0000	18	65 311	9 13.0'N	60 13.0'E	9	30.90	0572	3705.	100.	0000	15	332200

MARSDEN SQUARE # 31

AII	93	7	0035	0000	15	76 5 1	0 32.5'N	51 36.1'E	9	31.01	0018	5109.	891.	0000	10	334000
AII	93	7	0035	0000	26	76 5 1	0 32.5'N	51 36.1'E	9	31.01	0018	5109.	151.	0000	10	334200
CHN	43	1	0009	0000	13	64 4 7	0 55.0'N	51 38.0'E	1	31.01	0004	5114.	145.	0000	10	356941
CHN	100	4	0047	0000	15	71 418	0 55.8'N	53 18.3'E	1	31.03	0035	5101.	1064.	0000	10	356100
CHN	100	4	0047	0000	26	71 418	0 55.8'N	53 18.3'E	1	31.03	0035	5101.	111.	0000	10	573900

MARSDEN SQUARE # 31

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	100	5	0049	0000	15	71 427	1 4.7'N	53 30.0'E	1	31.13	0037	5104.	629.	0000	10	356100
CHN	100	5	0049	0000	26	71 427	1 4.7'N	53 30.0'E	1	31.13	0037	5104.	107.	0000	10	073200
CHN	100	5	0050	0000	15	71 428	1 56.7'N	53 59.1'E	1	31.13	0038	5126.	753.	0000	10	536900
CHN	100	5	0050	0000	26	71 428	1 56.7'N	53 59.1'E	1	31.13	0038	5126.	144.	0000	10	536900
CHN	100	5	0051	0000	15	71 429	1 49.0'N	56 51.7'E	1	31.16	0039	4782.	727.	0000	10	133900
CHN	100	5	0051	0000	26	71 429	1 49.0'N	56 51.7'E	1	31.16	0039	4782.	52.	0000	10	132300
CHN	100	5	0052	0000	15	71 430	1 37.0'N	59 40.7'E	9	31.19	0040	5426.	596.	0000	15	503900
CHN	100	5	0052	0000	26	71 430	1 37.0'N	59 40.7'E	9	31.19	0040	5426.	148.	0000	15	503200
CHN	100	4	0046	0000	15	71 417	2 52.0'N	50 13.0'E	1	31.20	0034	5004.	895.	0000	10	356700
CHN	100	4	0046	0000	26	71 417	2 52.0'N	50 13.0'E	1	31.20	0034	5004.	106.	0000	10	346900
CHN	43	1	0069	0000	15	64 530	2 49.0'N	59 41.0'E	1	31.29	0023	4215.	325.	0000	15	496941
CHN	100	4	0043	0000	15	71 415	3 13.7'N	52 23.3'E	1	31.32	0031	5115.	254.	0000	10	536900
CHN	100	4	0043	0000	26	71 415	3 13.7'N	52 23.3'E	1	31.32	0031	5115.	104.	0000	10	356900
CHN	100	4	0044	0000	15	71 416	3 14.2'N	52 41.0'E	1	31.32	0032	5123.	959.	0000	10	533100
CHN	100	4	0044	0000	26	71 416	3 14.2'N	52 41.0'E	1	31.32	0032	5123.	137.	0000	10	002900
CHN	100	4	0045	0000	15	71 416	3 8.0'N	52 38.3'E	1	31.32	0033	5126.	1014.	0000	10	353100
CHN	100	4	0045	0000	26	71 416	3 8.0'N	52 38.3'E	1	31.32	0033	5126.	152.	0000	10	536900
CHN	100	4	0042	0000	15	71 413	4 27.4'N	51 8.0'E	1	31.41	0030	5049.	1108.	0000	10	033800
CHN	100	4	0042	0000	26	71 413	4 27.4'N	51 8.0'E	1	31.41	0030	5049.	98.	0000	10	353900
CHN	43	1	0007	0000	15	64 4 7	5 52.0'N	53 51.0'E	1	31.53	0001	4944.	582.	0000	19	346941
CHN	100	4	0040	0000	15	71 4 8	6 55.4'N	54 41.7'E	1	31.64	0029	5106.	1156.	0000	10	073100
CHN	100	4	0040	0000	26	71 4 8	6 55.4'N	54 41.7'E	1	31.64	0029	5106.	152.	0000	10	335900
CHN	100	4	0037	0000	15	71 4 7	7 43.9'N	54 45.5'E	1	31.74	0027	5102.	1149.	0000	10	302100
CHN	100	4	0037	0000	26	71 4 7	7 51.9'N	54 45.5'E	1	31.74	0027	5102.	145.	0000	10	356900
CHN	100	4	0038	0000	15	71 4 7	7 4.5'N	55 57.6'E	1	31.75	0028	4250.	431.	0000	15	332800
CHN	100	4	0038	0000	26	71 4 7	7 4.5'N	55 57.6'E	1	31.75	0028	4250.	100.	0000	15	332200
CHN	100	4	0036	0000	15	71 4 6	7 48.0'N	56 12.2'E	1	31.76	0026	4680.	1142.	0000	15	356200
CHN	100	4	0036	0000	26	71 4 6	7 48.0'N	56 12.2'E	1	31.76	0026	4680.	112.	0000	15	356900
AII	15	4	0558	0000	15	65 3 1	8 59.0'N	51 44.0'E	9	31.81	0009	3985.	870.	0000	4	001900
AII	15	4	0558	0000	26	65 3 1	8 59.0'N	51 44.0'E	9	31.81	0009	3985.	39.	0000	4	002900
AII	15	4	0560	0000	15	65 3 3	8 58.5'N	52 2.0'E	9	31.82	0010	4350.	665.	0000	6	334200
AII	15	4	0560	0000	26	65 3 3	8 58.5'N	52 2.0'E	9	31.82	0010	4350.	23.	0000	6	395900
AII	15	4	0561	0000	15	65 3 4	8 58.0'N	52 20.0'E	9	31.82	0011	4722.	998.	0000	6	064900
AII	15	4	0568	0000	15	65 3 9	8 59.0'N	54 47.0'E	9	31.84	0015	4950.	1179.	0000	10	466100
AII	15	4	0568	0000	26	65 3 9	8 59.0'N	54 47.0'E	9	31.84	0015	4950.	55.	0000	10	005900
AII	15	4	0569	0000	18	65 3 9	8 58.5'N	56 2.0'E	9	31.86	0569	4001.	105.	0000	10	036900
AII	15	4	0563	0000	15	65 3 6	9 11.0'N	52 23.5'E	9	31.92	0012	4499.	849.	0000	4	034200
AII	15	4	0563	0000	26	65 3 6	9 11.0'N	52 23.5'E	9	31.92	0012	4499.	39.	0000	4	005900
AII	15	4	0564	0000	15	65 3 7	9 5.0'N	53 6.0'E	9	31.93	0013	4824.	0.	0000	6	000000
AII	15	4	0565	0000	15	65 3 7	9 2.0'N	53 40.5'E	9	31.93	0014	4852.	1050.	0000	6	004900
AII	15	4	0565	0000	26	65 3 7	9 2.0'N	53 40.5'E	9	31.93	0014	4852.	69.	0000	6	302900

MARSDEN SQUARE # 33

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
ZZZ	72	3	0002	0000	15	72 3 0	1 29.2'N	30 42.9'E	1	33.10	0002	40.	532.	0000	22	554500
ZZZ	72	3	0003	0000	15	72 3 0	1 31.2'N	30 34.5'E	1	33.10	0003	55.	484.	0000	22	564500
ZZZ	72	3	0004	0000	15	72 3 0	1 41.8'N	30 45.0'E	1	33.10	0004	50.	499.	0000	22	503800
ZZZ	72	3	0005	0000	15	72 3 0	1 45.8'N	30 45.0'E	1	33.10	0005	55.	499.	0000	22	504800
ZZZ	70	0	0004	0000	15	70 4 3	7 18.0'S	30 11.0'E	2	33.70	0004	717.	33.	0000	22	824000

MARSDEN SQUARE # 33

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE

MARSDEN SQUARE # 34

ZZZ	70	0	0014	0000	15	70 410	5 35.0'S	29 21.0'E	2	34.59	0014	29.	44.	0000	22	122900	
ZZZ	70	0	0015	0000	15	70 410	5 33.0'S	29 28.0'E	2	34.59	0015	633.	229.	0000	22	651900	
ZZZ	70	0	0018	0000	15	70 411	5 45.0'S	29 25.0'E	2	34.59	0018	64.	141.	0000	22	651900	
ZZZ	70	0	0019	0000	15	70 411	5 56.0'S	29 32.0'E	2	34.59	0019	361.	200.	0000	22	681900	
ZZZ	70	0	0001	0000	15	70 4 3	6 0.5'S	29 30.9'E	2	34.69	0001	0.	120.	0000	22	662600	
ZZZ	70	0	0006	0000	15	70 4 6	6 51.0'S	29 58.0'E	2	34.69	0006	245.	165.	0000	22	153000	
ZZZ	70	0	0006	0000	15	70 4 6	6 51.0'S	29 58.0'E	2	34.69	0006	245.	165.	0000	22	153000	
ZZZ	70	0	0009	0000	15	70 4 7	6 59.0'S	29 51.0'E	2	34.69	0009	285.	66.	0000	22	521100	
ZZZ	70	0	0010	0000	15	70 4 7	6 27.0'S	29 33.0'E	2	34.69	0010	114.	122.	0000	22	522000	
ZZZ	70	0	0011	0000	15	70 4 8	6 23.0'S	29 35.0'E	2	34.69	0011	201.	123.	0000	22	151900	

MARSDEN SQUARE # 38

CHN	99	3	0009	0000	15	70 514	10 30.8'N	18 18.5'W	1	38.08	0008	4014.	856.	0000	6	242900	
CHN	99	3	0009	0000	26	70 514	10 30.8'N	18 18.5'W	1	38.08	0008	4014.	178.	0000	6	032900	

MARSDEN SQUARE # 39

CHN	17	1	0012	0000	15	61 5 4	10 49.0'N	29 24.0'W	0	39.09	0012	5781.	1163.	0000	15		
AII	42	1	0001	0000	15	68 629	16 26.0'N	21 43.0'W	1	39.61	0001	3696.	258.	0000	6	373954	
AII	42	1	0002	0000	15	68 630	18 2.0'N	24 27.0'W	1	39.84	0002	3696.	600.	0000	5	324154	
AII	42	1	0003	0000	15	68 7 1	19 41.0'N	26 9.0'W	1	39.96	0003	4550.	1200.	0000	6	332954	
AII	42	1	0004	0000	15	68 7 2	19 43.5'N	29 2.0'W	1	39.99	0004	4695.	1135.	0000	11	342954	

MARSDEN SQUARE # 40

AII	42	1	0006	0000	15	68 7 3	19 51.5'N	31 53.0'W	1	40.91	0005	4937.	1065.	0000	11	342954	
AII	42	1	0007	0000	15	68 7 4	19 39.0'N	34 24.5'W	1	40.94	0006	5161.	870.	0000	11	334054	
AII	42	1	0008	0000	15	68 7 4	19 30.0'N	36 32.0'W	1	40.96	0007	5376.	815.	0000	11	412954	
AII	42	1	0009	0000	15	68 7 5	19 31.8'N	38 49.5'W	1	40.98	0008	5235.	879.	0000	15	137954	

MARSDEN SQUARE # 41

AII	31	1	0012	0000	15	67 418	10 20.0'N	41 17.5'W	1	41.01	0012	3182.	511.	0000	19	334900	
AII	31	1	0012	0000	26	67 418	10 20.0'N	41 17.5'W	1	41.01	0012	3182.	78.	0000	19	332200	
AII	31	1	0008	0000	15	67 416	10 48.5'N	42 56.0'W	4	41.02	0008	5179.	388.	0000	19	037900	
AII	20	1	0001	0000	13	66 3 8	10 54.0'N	43 55.0'W	0	41.03	0001	5180.	0.	0043	19		
AII	20	1	0042	0000	18	66 423	10 42.0'N	43 23.0'W	0	41.03	0042	4570.	101.	0000	15		
AII	20	1	0043	0000	18	66 423	10 38.0'N	43 23.0'W	0	41.03	0043	3550.	87.	0000	15		
AII	20	1	0044	0000	18	66 424	10 44.0'N	43 23.0'W	0	41.03	0044	5140.	84.	0000	15		
AII	20	1	0045	0000	18	66 424	10 50.0'N	43 23.0'W	0	41.03	0045	5150.	73.	0000	19		
AII	20	1	0053	0000	18	66 425	10 32.0'N	43 51.0'W	0	41.03	0053	3725.	84.	0000	15		

MARSDEN SQUARE # 41

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	31	1	0007	0000	15	67 416	10 29.0'N	43 41.5'W	4	41.03	0007	4607.	525.	0000	19	366200
AII	31	1	0007	0000	26	67 416	10 29.0'N	43 41.5'W	4	41.03	0007	4607.	22.	0000	19	366200
AII	31	1	0001	0000	15	67 4 9	10 45.0'N	44 51.0'W	4	41.04	0001	3836.	304.	0000	16	384900
AII	31	1	0001	0000	26	67 4 9	10 45.0'N	44 51.0'W	4	41.04	0001	3836.	63.	0000	16	384900
AII	31	1	0002	0000	15	67 412	10 35.0'N	44 51.0'W	4	41.04	0002	5106.	699.	0000	19	824000
AII	31	1	0002	0000	26	67 412	10 35.0'N	44 51.0'W	4	41.04	0002	5106.	18.	0000	19	124900
AII	31	1	0003	0000	15	67 413	10 54.5'N	44 7.0'W	4	41.04	0003	4389.	692.	0000	19	283900
AII	31	1	0003	0000	26	67 413	10 54.5'N	44 7.0'W	4	41.04	0003	4389.	53.	0000	19	234900
AII	31	1	0004	0000	15	67 415	10 49.0'N	44 10.0'W	4	41.04	0004	5154.	538.	0000	19	234900
AII	31	1	0004	0000	26	67 415	10 49.0'N	44 10.0'W	4	41.04	0004	5154.	98.	0000	19	234900
AII	31	1	0005	0000	15	67 414	10 22.0'N	44 18.0'W	4	41.04	0005	4945.	593.	0000	19	232900
AII	31	1	0013	0000	15	67 419	11 20.3'N	41 51.8'W	1	41.11	0013	4204.	530.	0000	19	302900
AII	31	1	0013	0000	26	67 419	11 20.3'N	41 51.8'W	1	41.11	0013	4204.	119.	0000	19	332900
AII	31	1	0014	0000	15	67 420	11 32.0'N	42 42.5'W	1	41.12	0014	3846.	468.	0000	19	332900
AII	31	1	0014	0000	26	67 420	11 32.0'N	42 42.5'W	1	41.12	0014	3846.	69.	0000	19	332900
AII	20	1	0052	0000	13	66 425	11 32.0'N	43 49.0'W	0	41.13	0052	2850.	0.	0032	19	
AII	31	1	0015	0000	15	67 420	11 53.1'N	43 47.4'W	1	41.13	0015	3940.	566.	0000	19	334000
AII	31	1	0015	0000	26	67 420	11 53.1'N	43 47.4'W	1	41.13	0015	3940.	83.	0000	19	373900
AII	20	1	0046	0000	13	66 424	11 27.0'N	44 33.0'W	0	41.14	0046	4025.	0.	0098	15	
AII	20	1	0047	0000	13	66 424	11 27.0'N	44 33.0'W	0	41.14	0047	3475.	0.	0032	15	
AII	20	1	0048	0000	18	66 424	11 26.0'N	44 15.0'W	0	41.14	0048	3340.	41.	0000	15	
AII	20	1	0049	0000	13	66 425	11 27.0'N	44 3.0'W	0	41.14	0049	2885.	35.	0000	15	
AII	31	1	0016	0000	15	67 421	11 57.5'N	46 10.0'W	1	41.16	0016	4217.	512.	0000	19	332200
AII	31	1	0016	0000	26	67 421	11 57.5'N	46 10.0'W	1	41.16	0016	4217.	150.	0000	19	332900
AII	20	1	0055	0000	18	66 427	11 34.0'N	47 27.0'W	0	41.17	0055	4870.	104.	0000	15	
AII	31	1	0017	0000	15	67 422	11 54.5'N	48 26.0'W	1	41.18	0017	4824.	848.	0000	19	342600
AII	31	1	0017	0000	26	67 422	11 54.5'N	48 26.0'W	1	41.18	0017	4824.	40.	0000	19	313600
CHN	75	2	0029	0000	15	671123	12 58.4'N	44 34.1'W	10	41.24	0019	3266.	488.	0000	14	376954
CHN	75	2	0029	0000	26	671123	12 58.4'N	44 34.1'W	10	41.24	0019	3266.	72.	0000	14	376900
CHN	75	2	0030	0000	15	671123	12 57.0'N	44 46.2'W	10	41.24	0020	3612.	508.	0000	16	332441
CHN	75	2	0030	0000	26	671123	12 57.0'N	44 46.2'W	10	41.24	0020	3612.	93.	0000	16	332900
CHN	75	2	0018	0000	15	671117	13 22.8'N	43 53.8'W	4	41.33	0016	3742.	860.	0000	15	372954
CHN	75	2	0018	0000	26	671117	13 22.8'N	43 53.8'W	4	41.33	0016	3742.	47.	0000	15	332900
CHN	75	2	0019	0000	15	671117	13 24.0'N	44 38.5'W	4	41.34	0017	3093.	143.	0000	16	332954
CHN	75	2	0019	0000	26	671117	13 24.0'N	44 38.5'W	4	41.34	0017	3093.	62.	0000	16	332900
CHN	75	2	0020	0000	15	671118	13 22.0'N	45 23.7'W	4	41.35	0018	3538.	860.	0000	16	332954
CHN	75	2	0020	0000	26	671118	13 22.0'N	45 23.7'W	4	41.35	0018	3538.	92.	0000	16	332900
CHN	75	2	0031	0000	15	671124	13 0.0'N	45 57.5'W	10	41.35	0021	3229.	714.	0000	14	372254
CHN	75	2	0031	0000	26	671124	13 0.0'N	45 57.5'W	10	41.35	0021	3229.	132.	0000	14	332200
CHN	75	2	0016	0000	15	671113	13 21.5'N	46 10.5'W	1	41.36	0014	3718.	398.	0000	15	332954
CHN	75	2	0032	0000	15	671124	13 2.0'N	46 55.0'W	10	41.36	0022	3276.	435.	0000	14	332954
CHN	75	2	0032	0000	26	671124	13 2.0'N	46 55.0'W	10	41.36	0022	3276.	147.	0000	14	332900
CHN	75	2	0015	0000	15	671112	13 55.4'N	47 2.0'W	1	41.37	0013	4140.	790.	0000	15	302954
CHN	75	2	0033	0000	15	671125	13 4.2'N	47 59.2'W	4	41.37	0023	4067.	45.	0000	19	085354
CHN	75	2	0034	0000	15	671125	13 1.3'N	48 50.8'W	1	41.38	0024	4698.	900.	0000	15	343254
CHN	75	2	0034	0000	26	671125	13 1.3'N	48 50.8'W	1	41.38	0024	4698.	133.	0000	15	332900
CHN	75	2	0035	0000	15	671126	13 3.5'N	49 45.5'W	1	41.39	0025	4966.	150.	0000	11	343054
CHN	75	2	0035	0000	26	671126	13 3.5'N	49 45.5'W	1	41.39	0025	4966.	140.	0000	11	332900
CHN	75	2	0014	0000	15	671112	14 18.0'N	48 11.2'W	4	41.48	0012	4069.	760.	0000	11	373954
CHN	75	2	0013	0000	15	671111	14 12.5'N	49 9.0'W	4	41.49	0011	4474.	192.	0000	11	332954

MARSDEN SQUARE # 41

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	75	2	0013	0000	26	671111	14 12.5'N	49 9.0'W	4	41.49	0011	4474.	82.	0000	11	375200
AII	42	1	0011	0000	15	68 7 6	19 34.0'N	40 30.0'W	1	41.90	0010	5654.	705.	0000	15	227954
AII	42	1	0012	0000	15	68 7 6	19 37.0'N	41 37.0'W	1	41.91	0011	5070.	702.	0000	15	343254
AII	42	1	0013	0000	15	68 7 7	19 40.0'N	42 44.0'W	1	41.92	0012	4043.	745.	0000	15	334954
AII	42	1	0014	0000	15	68 7 7	19 34.0'N	43 49.0'W	1	41.93	0013	4107.	711.	0000	14	332254
AII	42	1	0015	0000	15	68 7 7	19 34.0'N	44 57.0'W	1	41.94	0014	3515.	95.	0000	15	337954
AII	42	1	0016	0000	15	68 711	19 41.5'N	44 33.0'W	1	41.94	0015	4040.	737.	0000	15	334954
AII	42	1	0017	0000	15	68 713	19 33.8'N	46 7.8'W	1	41.96	0016	2471.	560.	0000	15	334954
AII	42	1	0022	0000	15	68 715	19 13.0'N	47 27.0'W	1	41.97	0017	4320.	748.	0000	16	373154
AII	42	1	0023	0000	15	68 716	19 13.2'N	47 26.0'W	1	41.97	0018	4321.	807.	0000	15	334154
AII	42	1	0030	0000	15	68 717	19 8.8'N	47 27.0'W	1	41.97	0019	3942.	672.	0000	15	332254
AII	42	1	0032	0000	15	68 718	19 41.0'N	48 39.0'W	1	41.98	0020	4254.	544.	0000	15	332054

MARSDEN SQUARE # 42

CHN	75	2	0038	0000	15	671127	12 49.0'N	52 45.5'W	1	42.22	0028	5107.	57.	0000	10	496954
CHN	75	2	0039	0000	15	671128	12 15.0'N	54 15.0'W	1	42.24	0029	4675.	865.	0000	6	342054
CHN	75	2	0039	0000	26	671128	12 15.0'N	54 15.0'W	1	42.24	0029	4675.	178.	0000	6	332900
CHN	75	2	0040	0000	15	671128	12 10.0'0	54 44.0'W	1	42.25	0030	4526.	718.	0000	6	393954
CHN	75	2	0041	0000	15	671129	12 9.0'N	56 49.0'W	1	42.26	0031	4437.	10.	0000	6	335954
CHN	75	2	0041	0000	26	671129	12 9.0'N	56 49.0'W	1	42.26	0031	4437.	149.	0000	6	333900
CHN	75	2	0042	0000	15	671130	12 2.5'N	57 56.5'W	1	42.27	0032	2819.	765.	0000	3	333554
CHN	75	2	0043	0000	15	671130	12 11.0'N	59 3.0'W	1	42.29	0033	2173.	693.	0000	3	393254
CHN	75	2	0036	0000	15	671126	13 2.5'N	50 46.5'W	1	42.30	0026	4816.	445.	0000	11	432954
CHN	75	2	0036	0000	26	671126	13 2.5'N	50 46.5'W	1	42.30	0026	4816.	160.	0000	11	496900
CHN	75	2	0037	0000	15	671126	13 5.5'N	51 18.5'W	1	42.31	0027	5005.	435.	0000	10	392954
CHN	75	2	0037	0000	26	671126	13 5.5'N	51 18.5'W	1	42.31	0027	5005.	180.	0000	10	396900
AII	20	1	0056	0000	18	66 429	13 52.0'N	56 56.0'W	0	42.36	0056	4870.	114.	0000	10	
CHN	75	2	0012	0000	15	671110	14 15.0'N	50 51.0'W	1	42.40	0010	4783.	815.	0000	10	142954
CHN	75	2	0012	0000	26	671110	14 15.0'N	50 51.0'W	1	42.40	0010	4783.	138.	0000	10	132900
CHN	75	2	0011	0000	15	671110	14 18.0'N	52 37.5'W	4	42.42	0009	5061.	580.	0000	10	343254
CHN	75	2	0011	0000	26	671110	14 18.0'N	52 37.5'W	4	42.42	0009	5061.	154.	0000	10	343200
CHN	75	2	0010	0000	15	6711 9	14 9.5'N	54 7.0'W	4	42.44	0008	5342.	515.	0000	10	946954
CHN	75	2	0010	0000	26	6711 9	14 9.5'N	54 7.0'W	4	42.44	0008	5342.	89.	0000	10	946900
CHN	75	2	0009	0000	15	6711 8	14 14.0'N	55 47.2'W	4	42.45	0007	5141.	792.	0000	10	142954
CHN	75	2	0009	0000	26	6711 8	14 14.0'N	55 47.2'W	4	42.45	0007	5141.	173.	0000	10	332200
CHN	75	2	0008	0000	15	6711 7	14 1.0'N	57 23.5'W	4	42.47	0006	5177.	625.	0000	5	162954
CHN	75	2	0008	0000	26	6711 7	14 1.0'N	57 23.5'W	4	42.47	0006	5177.	92.	0000	5	396900
CHN	75	2	0007	0000	15	6711 6	14 14.5'N	58 24.9'W	4	42.48	0005	3550.	625.	0000	7	396954
CHN	75	2	0007	0000	26	6711 6	14 14.5'N	58 24.9'W	4	42.48	0005	3550.	56.	0000	7	396900
CHN	75	2	0006	0000	15	6711 5	14 17.5'N	59 35.0'W	1	42.49	0004	3364.	326.	0000	7	373940
CHN	75	3	0044	0000	15	671211	15 59.4'N	57 43.8'W	4	42.57	0034	5432.	834.	0000	19	196954
CHN	36	1	0006	0000	13	63 626	16 45.0'N	57 38.5'W	4	42.67	0005	5854.	78.	0000	17	183900
CHN	36	1	0007	0000	13	63 627	16 46.5'N	57 47.5'W	5	42.67	0006	5854.	32.	0000	17	283900
CHN	36	1	0009	0000	13	63 627	16 33.5'N	57 50.7'W	5	42.67	0007	4342.	244.	0000	17	333200
CHN	36	1	0010	0000	13	63 628	16 35.0'N	57 54.7'W	5	42.67	0008	4327.	240.	0000	17	332900
CHN	75	3	0045	0000	26	671211	16 51.0'N	57 37.8'W	1	42.67	0035	5844.	111.	0000	19	196900
CHN	75	3	0045	0000	15	671212	16 54.9'N	57 38.0'W	1	42.67	0036	5838.	109.	0000	19	916954
CHN	75	3	0045	0000	26	671212	16 54.9'N	57 38.0'W	1	42.67	0036	5838.	145.	0000	19	916900

MARSDEN SQUARE # 42

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	36	1	0011	0000	13	63 628	16 57.0'N	58 24.0'W	4	42.68	0009	5879.	81.	0000	17	123900
CHN	36	1	0013	0000	13	63 629	16 18.2'N	58 36.0'W	5	42.68	0010	5538.	156.	0000	17	193900
CHN	36	1	0014	0000	13	63 629	16 45.0'N	58 27.6'W	1	42.68	0011	4198.	82.	0000	17	332900
CHN	44	1	0033	0000	15	6411 1	16 44.0'N	58 27.0'W	5	42.68	0001	4006.	84.	0000	19	396900
CHN	44	1	0038	0000	15	6411 3	17 4.0'N	57 57.0'W	5	42.77	0006	5546.	100.	0000	19	112900
CHN	75	3	0046	0000	15	671212	17 35.5'N	57 43.0'W	5	42.77	0037	5680.	75.	0000	19	946954
CHN	75	3	0046	0000	26	671212	17 35.5'N	57 43.0'W	5	42.77	0037	5680.	145.	0000	19	946900
CHN	44	1	0035	0000	15	6411 2	17 3.0'N	58 16.0'W	5	42.78	0003	5767.	273.	0000	19	192300
CHN	44	1	0036	0000	15	6411 2	17 2.0'N	58 16.0'W	5	42.78	0004	5856.	25.	0000	19	296900
CHN	36	1	0005	0000	13	63 625	17 17.5'N	59 27.0'W	4	42.79	0004	6080.	128.	0000	17	283900
AII	31	1	0019	0000	15	67 425	18 3.0'N	59 8.0'W	1	42.89	0018	5534.	748.	0000	16	122300
AII	31	1	0019	0000	26	67 425	18 3.0'N	59 8.0'W	1	42.89	0018	5534.	98.	0000	16	663900

MARSDEN SQUARE # 43

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
GOS	96	0	0025	0000	20	67 212	10 31.7'N	62 11.0'W	0	43.02	0001	18.	332.	0000	2	000000
GOS	96	0	0026	0000	20	67 212	10 29.6'N	62 30.0'W	0	43.02	0001	8.	357.	0000	2	000000
GOS	96	0	0028	0000	20	67 212	10 24.6'N	62 19.8'W	0	43.02	0001	12	359.	0000	2	000000
GOS	96	0	0029	0000	20	67 212	10 14.2'N	62 22.2'W	0	43.02	0001	9.	265.	0000	2	000000
ATL	240	1	0017	0000	15	5711 7	10 32.6'N	64 51.2'W	5	43.04	0017	1348.	760.	0000	18	473100
ATL	240	1	0018	0000	15	5711 7	10 30.8'N	64 40.0'W	5	43.04	0018	1370.	952.	0000	18	483900
ATL	240	1	0019	0000	15	5711 8	10 22.3'N	64 42.5'W	5	43.04	0019	177.	612.	0000	18	384500
ATL	240	1	0020	0000	15	5711 8	10 24.0'N	64 41.2'W	5	43.04	0020	822.	915.	0000	18	417600
ATL	240	1	0021	0000	15	5711 9	10 26.2'N	64 41.5'W	5	43.04	0021	980.	886.	0000	18	302900
ATL	240	1	0022	0000	15	5711 9	10 34.0'N	64 41.8'W	5	43.04	0022	1281.	580.	0000	18	437800
ATL	240	1	0023	0000	15	5711 9	10 47.2'N	64 39.6'W	5	43.04	0023	278.	909.	0000	18	307500
ATL	246	0	0062	0000	15	5811 2	10 41.3'N	64 40.0'W	5	43.04	0024	342.	653.	0000	18	347900
ATL	246	0	0062	0000	26	5811 2	10 41.3'N	64 40.0'W	5	43.04	0024	342.	61.	0000	18	355500
ATL	246	0	0063	0000	15	5811 2	10 57.0'N	64 38.5'W	5	43.04	0025	338.	1027.	0000	18	402900
ATL	246	0	0063	0000	26	5811 2	10 57.0'N	64 38.5'W	5	43.04	0025	338.	88.	0000	18	402900
ATL	240	1	0007	0000	15	5711 2	10 48.0'N	65 51.5'W	5	43.05	0007	253.	357.	0000	18	376900
ATL	240	1	0008	0000	15	5711 2	10 44.0'N	65 51.7'W	5	43.05	0008	526.	542.	0000	18	376900
ATL	240	1	0009	0000	15	5711 3	10 40.7'N	65 51.5'W	5	43.05	0009	1342.	375.	0000	18	234800
ATL	240	1	0010	0000	15	5711 3	10 36.7'N	65 49.8'W	5	43.05	0010	673.	450.	0000	18	334900
ATL	240	1	0011	0000	15	5711 4	10 28.8'N	65 35.7'W	5	43.05	0011	572.	56.	0000	18	444600
ATL	240	1	0012	0000	15	5711 4	10 37.5'N	65 32.4'W	5	43.05	0012	1345.	591.	0000	18	386500
ATL	240	1	0013	0000	15	5711 5	10 31.8'N	65 31.8'W	5	43.05	0013	942.	850.	0000	18	444600
ATL	240	1	0014	0000	15	5711 5	10 35.2'N	65 32.2'W	5	43.05	0014	385.	840.	0000	18	432900
ATL	240	1	0015	0000	15	5711 6	10 32.5'N	65 8.0'W	5	43.05	0015	354.	580.	0000	18	845500
ATL	240	1	0016	0000	15	5711 7	10 38.7'N	65 4.5'W	5	43.05	0016	914.	715.	0000	18	307500
ATL	246	0	0064	0000	15	5811 4	10 6.0'N	67 19.0'W	5	43.07	0026	737.	582.	0000	21	485900
ATL	246	0	0064	0000	26	5811 4	10 6.0'N	67 19.0'W	5	43.07	0026	737.	84.	0000	21	485900
ATL	246	0	0065	0000	15	5811 5	11 1.0'N	67 16.0'W	5	43.17	0027	897.	614.	0000	21	385900
ATL	246	0	0065	0000	26	5811 5	11 1.0'N	67 16.0'W	5	43.17	0027	897.	87.	0000	21	385900
ATL	246	0	0066	0000	15	5811 4	11 28.0'N	67 13.0'W	5	43.17	0028	1935.	923.	0000	21	435500
ATL	246	0	0066	0000	26	5811 4	11 28.0'N	67 13.0'W	5	43.17	0028	1935.	99.	0000	21	435500
ATL	246	0	0070	0000	15	5811 6	11 47.0'N	68 30.0'W	5	43.18	0031	1803.	108.	0000	21	335900
ATL	246	0	0070	0000	26	5811 6	11 47.0'N	68 30.0'W	5	43.18	0031	1803.	88.	0000	21	356900
ATL	246	0	0071	0000	26	5811 6	11 25.5'N	68 30.0'W	5	43.18	0032	347.	71.	0000	21	442500

MARSDEN SQUARE # 43

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
ATL	246	0	0068	0000	15	5811 5	12 34.0'N	68 29.0'W	5	43.28	0029	3210.	694.	0000	21	335500
ATL	246	0	0068	0000	26	5811 5	12 34.0'N	68 29.0'W	5	43.28	0029	3210.	91.	0000	21	335500
ATL	246	0	0069	0000	15	5811 5	12 10.0'N	68 29.0'W	5	43.28	0030	1499.	512.	0000	21	335500
ATL	246	0	0069	0000	26	5811 5	12 10.0'N	68 29.0'W	5	43.28	0030	1499.	95.	0000	21	356900
CHN	75	1	0004	0000	15	671030	14 44.7'N	63 59.0'W	5	43.43	0003	2376.	452.	0000	13	302940
CHN	11	1	0011	0000	15	60 225	17 10.0'N	65 10.0'W	4	43.75	0011	2940.	634.	0000	21	373900
CHN	41	1	0002	0000	13	6312 7	17 12.0'N	67 46.0'W	5	43.77	0002	5177.	203.	0000	21	373200
AII	20	1	0058	0000	13	66 5 2	18 11.5'N	64 48.9'W	0	43.84	0058	244.	6.	0000	5	
CHN	75	1	0002	0000	15	671026	19 29.5'N	60 46.5'W	4	43.90	0002	5262.	361.	0000	17	147940
CHN	75	1	0002	0000	26	671026	19 29.5'N	60 46.5'W	4	43.90	0002	5262.	115.	0000	17	445900
CHN	36	1	0004	0000	13	63 623	19 24.0'N	61 30.0'W	5	43.91	0003	5457.	143.	0000	17	112900
CHN	75	1	0001	0000	15	671023	19 24.0'N	65 7.0'W	5	43.95	0001	5690.	156.	0000	17	334440
CHN	57	1	0032	0000	15	66 4 7	19 56.0'N	67 1.0'W	5	43.97	0011	6907.	593.	0000	17	112900
CHN	57	1	0037	0000	15	66 410	19 59.0'N	68 2.1'W	5	43.98	0013	5384.	502.	0000	17	933800

MARSDEN SQUARE # 44

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
GOS	96	0	0001	0000	20	67 2 1	10 23.0'N	71 33.6'W	0	44.01	0001	9.	287.	0000	2	000000
GOS	96	0	0002	0000	20	67 2 1	10 7.1'N	71 34.8'W	0	44.01	0001	23.	300.	0000	2	000000
GOS	96	0	0014	0000	20	67 2 4	10 5.5'N	71 30.2'W	0	44.01	0001	27.	390.	0000	2	000000
ATL	246	0	0219	0000	26	581121	11 45.0'N	70 49.0'W	5	44.10	0038	37.	55.	0000	23	225500
ATL	246	0	0214	0000	26	581120	11 15.0'N	71 35.0'W	5	44.11	0033	18.	110.	0000	23	225500
ATL	246	0	0215	0000	26	581121	11 26.5'N	71 36.5'W	5	44.11	0034	24.	63.	0000	23	225500
ATL	246	0	0216	0000	26	581121	11 34.0'N	71 35.5'W	5	44.11	0035	22.	28.	0000	23	885500
ATL	246	0	0217	0000	26	581121	11 46.0'N	71 13.0'W	5	44.11	0036	18.	87.	0000	23	115500
ATL	246	0	0218	0000	26	581121	11 46.0'N	71 5.0'W	5	44.11	0037	16.	87.	0000	23	115500
AII	108	1	0006	0000	15	81 227	13 48.3'N	78 57.0'W	9	44.38	0002	3070.	900.	0000	10	3329
AII	108	1	0006	0000	26	81 227	13 48.3'N	78 57.0'W	9	44.38	0002	3070.	134.	0000	10	3329
KNR	64	1	0005	0000	15	77 2 2	16 31.3'N	74 48.4'W	9	44.64	0005	3047.	758.	0000	10	373900
KNR	64	1	0005	0000	26	77 2 2	16 31.3'N	74 48.4'W	9	44.64	0005	3047.	154.	0000	10	373900
KNR	64	1	0006	0000	15	77 2 2	16 31.2'N	74 48.1'W	9	44.64	0006	3001.	760.	0000	10	373900
KNR	64	1	0006	0000	26	77 2 2	16 31.2'N	74 48.1'W	9	44.64	0006	3001.	104.	0000	10	733500
CHN	41	1	0003	0000	15	6312 8	17 18.0'N	72 11.0'W	5	44.72	0002	4296.	513.	0000	21	373900
KNR	64	1	0003	0000	15	77 2 2	17 1.0'N	74 26.0'W	1	44.74	0003	2681.	818.	0000	10	334200
KNR	64	1	0003	0000	26	77 2 2	17 1.0'N	74 26.0'W	1	44.74	0003	2681.	144.	0000	10	356200
KNR	64	1	0004	0000	15	77 2 2	17 2.4'N	74 22.9'W	9	44.74	0004	2585.	777.	0000	10	334200
KNR	64	1	0004	0000	26	77 2 2	17 2.4'N	74 22.9'W	9	44.74	0004	2585.	132.	0000	10	332900
CHN	41	1	0004	0000	13	631212	19 37.0'N	76 27.0'W	3	44.96	0004	6752.	121.	0000	21	373900

MARSDEN SQUARE # 45

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
ATL	254	3	0335	0000	26	60 223	16 29.0'N	86 34.5'W	5	45.66	0010	2791.	66.	0000	21	335500
ATL	254	3	0334	0000	26	60 222	17 52.0'N	86 15.0'W	5	45.76	0009	2440.	61.	0000	21	375900
ATL	254	3	0333	0000	15	60 222	18 29.0'N	86 20.0'W	5	45.86	0008	4402.	292.	0000	10	384900
ATL	254	3	0333	0000	26	60 222	18 29.0'N	86 20.0'W	5	45.86	0008	4402.	76.	0000	10	332900
ATL	254	3	0330	0000	15	60 220	19 35.0'N	84 51.0'W	5	45.94	0006	4579.	605.	0000	10	333900
ATL	254	3	0330	0000	26	60 220	19 35.0'N	84 51.0'W	5	45.94	0006	4579.	34.	0000	10	333900
ATL	254	3	0331	0000	15	60 221	19 12.0'N	86 44.0'W	5	45.96	0007	4526.	300.	0000	10	733900

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
MARSDEN SQUARE # 45																	
ATL	254	3	0331	0000	26	60 221	19 12.0'N	86 44.0'W	5	45.96	0007	4526.	67.	0000	10		373900
MARSDEN SQUARE # 48																	
KNR	73	4	0005	0000	15	78 416	10 50.9'N	110 16.1'W	9	48.00	0004	3681.	1037.	0000	11		356200
KNR	73	4	0005	0000	26	78 416	10 50.9'N	110 16.1'W	9	48.00	0004	3681.	119.	0000	11		356200
MARSDEN SQUARE # 65																	
AII	15	5	0612	0000	13	65 4 4	13 35.0'N	71 33.5'E	9	65.31	0612	1697.	70.	0000	7		335500
MARSDEN SQUARE # 66																	
AII	15	5	0606	0000	26	65 4 2	14 25.0'N	63 1.0'E	9	66.43	0020	4023.	63.	0000	24		343200
AII	15	5	0607	0000	18	65 4 2	14 16.0'N	64 24.0'E	9	66.44	0607	3965.	87.	0000	24		335900
AII	15	5	0608	0000	13	65 4 3	14 7.0'N	65 50.0'E	9	66.45	0608	3957.	74.	0000	24		333900
AII	15	5	0610	0000	13	65 4 3	14 2.0'N	68 37.0'E	9	66.48	0610	4075.	28.	0000	24		435900
AII	15	5	0596	0000	18	65 327	18 56.0'N	61 23.0'E	9	66.81	0596	3694.	120.	0000	6		335900
MARSDEN SQUARE # 67																	
AII	15	4	0552	0000	15	65 227	10 15.0'N	53 10.0'E	9	67.03	0008	4173.	656.	0000	6		033900
AII	15	4	0552	0000	26	65 227	10 15.0'N	53 10.0'E	9	67.03	0008	4173.	39.	0000	6		005700
AII	15	4	0547	0000	15	65 226	12 0.0'N	51 54.0'E	9	67.21	0007	1602.	190.	0000	6		335900
AII	15	4	0547	0000	26	65 226	12 0.0'N	51 54.0'E	9	67.21	0007	1602.	52.	0000	6		335900
CHN	100	4	0035	0000	15	71 4 4	14 1.7'N	51 48.6'E	1	67.41	0025	5329.	570.	0000	19		033900
CHN	100	4	0035	0000	26	71 4 4	14 1.7'N	51 48.6'E	1	67.41	0025	5329.	119.	0000	19		303900
AII	15	5	0602	0000	18	65 331	14 56.0'N	57 21.0'E	9	67.47	0602	3357.	106.	0000	16		036200
AII	15	5	0599	0000	18	65 330	15 22.0'N	53 11.0'E	9	67.53	0599	2292.	110.	0000	6		302200
AII	15	5	0600	0000	18	65 330	15 16.0'N	54 38.0'E	9	67.54	0600	2899.	100.	0000	16		096900
AII	15	5	0597	0000	18	65 329	16 14.0'N	54 46.0'E	9	67.64	597B	2922.	90.	0000	6		335900
AII	15	5	0597	0000	15	65 329	16 14.0'N	54 46.0'E	9	67.64	0019	2939.	670.	0000	6		303000
AII	15	5	0597	0000	18	65 329	17 26.0'N	57 11.0'E	9	67.77	597A	1805.	86.	0000	6		356500
AII	15	5	0597	0000	13	65 329	17 26.0'N	57 11.0'E	9	67.77	0597	1805.	17.	0000	6		335900
MARSDEN SQUARE # 68																	
AII	15	4	0546	0000	15	65 223	11 53.0'N	48 37.3'E	9	68.18	0006	2136.	160.	0000	20		345900
CHN	100	4	0032	0000	15	71 4 1	12 23.4'N	43 42.2'E	1	68.23	0024	313.	90.	0000	4		846800
AII	15	3	0545	0000	18	65 219	16 34.0'N	41 3.0'E	9	68.61	0545	1981.	42.	0000	20		343900
CHN	43	1	0004	0000	13	64 326	17 39.0'N	40 10.0'E	5	68.70	0001	1296.	90.	0000	16		332641
CHN	43	1	0005	0000	13	64 326	17 39.0'N	40 10.0'E	5	68.70	0002	1470.	233.	0000	16		332841
CHN	100	3	0002	0000	13	71 3 2	17 40.0'N	40 45.0'E	1	68.70	0002	169.	97.	0000	2		372500

MARSDEN SQUARE # 69

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	100	3	0001	0000	13	71 3 2	17 2.6'N	39 53.0'E	1	69.79	0001	176.	42.	0000	2		335900
CHN	100	3	0003	0000	15	71 3 3	18 9.0'N	39 53.0'E	1	69.89	0003	1374.	798.	0000	16		386800
CHN	100	3	0003	0000	26	71 3 3	18 9.0'N	39 53.0'E	1	69.89	0003	1374.	112.	0000	16		323200
CHN	61	7	0152	0000	15	6611 2	19 48.5'N	38 30.0'E	1	69.98	0000	2359.	711.	0000	16		775941
CHN	61	7	0152	0000	26	6611 2	19 48.5'N	38 30.0'E	1	69.98	0000	2359.	45.	0000	16		373141
CHN	61	7	0153	0000	15	6611 4	19 43.0'N	38 41.0'E	1	69.98	0000	2704.	755.	0000	21		343941
CHN	61	7	0153	0000	26	6611 4	19 43.0'N	38 41.0'E	1	69.98	0000	2704.	157.	0000	21		373241
CHN	61	7	0154	0000	15	6611 4	19 34.0'N	38 59.5'E	1	69.98	0000	1275.	890.	0000	21		343941
CHN	61	7	0154	0000	26	6611 4	19 34.0'N	38 59.5'E	1	69.98	0000	1275.	92.	0000	21		332941
CHN	61	7	0155	0000	15	6611 5	19 23.5'N	38 54.0'E	1	69.98	0000	2046.	424.	0000	21		481741
CHN	61	7	0155	0000	26	6611 5	19 23.5'N	38 54.0'E	1	69.98	0000	2046.	117.	0000	21		486741
CHN	100	3	0006	0000	13	71 3 5	19 38.0'N	38 36.2'E	1	69.98	0005	2010.	101.	0000	16		386500
AII	93	19	0086	0000	13	77 4 1	19 27.3'N	39 11.2'E	9	69.99	0063	994.	21.	0000	21		00
CHN	100	3	0005	0000	15	71 3 3	19 5.0'N	39 59.5'E	1	69.99	0004	328.	537.	0000	16		323800
CHN	100	3	0005	0000	26	71 3 3	19 5.0'N	39 59.5'E	1	69.99	0004	328.	108.	0000	16		332900

MARSDEN SQUARE # 75

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	96	4	0001	0000	15	6911 6	27 22.0'N	21 58.5'W	9	75.11	0001	4879.	750.	0000	6		332954

MARSDEN SQUARE # 76

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	61	10	0171	0000	15	6612 6	26 42.0'N	39 23.0'W	1	76.69	0000	4279.	760.	0000	11		332241
CHN	61	10	0172	0000	15	6612 6	26 33.5'N	39 58.5'W	1	76.69	0000	4356.	160.	0000	11		332941
CHN	99	2	0008	0000	15	70 5 2	29 30.6'N	32 37.6'W	8	76.92	0007	4307.	719.	0000	19		332900
CHN	99	2	0007	0000	15	70 429	29 18.4'N	36 36.7'W	8	76.96	0006	3936.	732.	0000	19		373900
CHN	96	4	0003	0000	15	6911 9	29 10.5'N	38 28.6'W	8	76.98	0003	4760.	558.	0000	15		373154
CHN	96	4	0003	0000	26	6911 9	29 10.5'N	38 28.6'W	8	76.98	0003	4760.	109.	0000	15		332954

MARSDEN SQUARE # 77

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	42	1	0033	0000	15	68 719	20 2.0'N	49 46.8'W	1	77.09	0021	4598.	825.	0000	15		372954
AII	92	2	0019	0000	15	75 925	22 55.5'N	43 30.6'W	9	77.23	0005	4448.	516.	0000	15		373153
AII	92	2	0019	0000	26	75 925	22 55.5'N	43 30.6'W	9	77.23	0005	4448.	141.	0000	15		346253
AII	92	2	0027	0000	15	7510 1	22 58.7'N	43 30.6'W	12	77.23	0007	4431.	648.	0000	15		334853
AII	92	2	0027	0000	26	7510 1	22 58.7'N	43 30.6'W	12	77.23	0007	4431.	125.	0000	15		334253
AII	123	2	0000	0000	15	8911 5	22 59.0'N	43 30.5'W	11	77.23	0001	4570.	285.	0000	15		3308
AII	123	2	0000	0000	26	8911 5	22 59.0'N	43 30.5'W	11	77.23	0001	4570.	131.	0000	15		3302
AII	123	2	0000	0000	15	8911 6	22 57.2'N	43 30.9'W	11	77.23	0002	4570.	0.	0000	15		0000
AII	123	2	0000	0000	26	8911 6	22 57.2'N	43 30.9'W	11	77.23	0002	4570.	125.	0000	15		3302
AII	123	2	0000	0000	15	8911 7	22 57.4'N	43 31.1'W	11	77.23	0003	4570.	793.	0000	15		3708
AII	123	2	0000	0000	26	8911 7	22 57.4'N	43 31.1'W	11	77.23	0003	4570.	128.	0000	15		3302
AII	123	2	0000	0000	15	8911 8	22 58.5'N	43 30.1'W	11	77.23	0004	4144.	848.	0000	15		3708
AII	123	2	0000	0000	26	8911 8	22 58.5'N	43 30.1'W	11	77.23	0004	4144.	109.	0000	15		3728
AII	123	2	0000	0000	15	8911 9	22 55.8'N	43 31.8'W	11	77.23	0005	4522.	669.	0000	15		3708
AII	123	2	0000	0000	26	8911 9	22 55.8'N	43 31.8'W	11	77.23	0005	4523.	123.	0000	15		3322
CHN	44	1	0013	0000	18	641018	22 46.7'N	45 57.8'W	0	77.25	0013	3781.	87.	0000	15		

MARSDEN SQUARE # 77

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	44	1	0014	0000	18	641018	22 46.7'N	45 6.2'W	0	77.25	0014	3245.	88.	0000	15		
AII	123	2	0000	0000	15	891112	22 46.0'N	46 6.5'W	11	77.26	0006	4603.	584.	0000	15	3708	
AII	123	2	0000	0000	26	891112	22 46.0'N	46 6.5'W	11	77.26	0006	4603.	134.	0000	15	3738	
AII	123	2	0000	0000	15	891113	22 46.8'N	46 6.7'W	11	77.26	0007	4571.	773.	0000	15	3708	
AII	123	2	0000	0000	26	891113	22 46.8'N	46 6.7'W	11	77.26	0007	4571.	133.	0000	15	3702	
AII	123	2	0000	0000	15	891115	22 46.8'N	46 6.8'W	11	77.26	0008	4624.	1140.	0000	15	3708	
AII	123	2	0000	0000	26	891115	22 46.8'N	46 6.8'W	11	77.26	0008	4624.	130.	0000	15	3708	
AII	123	2	0000	0000	15	891116	22 45.2'N	46 6.5'W	11	77.26	0009	4607.	1116.	0000	15	3708	
AII	123	2	0000	0000	26	891116	22 45.2'N	46 6.5'W	11	77.26	0009	4607.	122.	0000	15	3732	
AII	123	2	0000	0000	15	891119	22 3.6'N	46 34.1'W	9	77.26	0010	4498	1093.	0000	15	3708	
AII	123	2	0000	0000	26	891119	22 3.6'N	46 34.1'W	9	77.26	0010	4498.	131.	0000	15	3352	
AII	123	2	0000	0000	15	891120	22 1.9'N	46 34.9'W	9	77.26	0011	4523.	1130.	0000	15	3708	
AII	123	2	0000	0000	26	891120	22 1.9'N	46 34.9'W	9	77.26	0011	4523.	135.	0000	15	3308	
AII	123	2	0000	0000	15	891121	22 3.5'N	46 34.6'W	9	77.26	0012	4646.	705.	0000	15	3708	
AII	123	2	0000	0000	26	891121	22 3.5'N	46 34.6'W	9	77.26	0012	4646.	133.	0000	15	3308	
CHN	44	1	0003	0000	15	641015	22 46.1'N	46 10.3'W	0	77.26	0003	4480.	780.	0085	15		
CHN	44	1	0005	0000	18	641016	22 48.5'N	46 10.6'W	0	77.26	0009	4470.	95.	0000	15		
CHN	44	1	0007	0000	18	641016	22 46.3'N	46 8.9'W	0	77.26	0007	4470.	98.	0000	15		
CHN	44	1	0008	0000	18	641016	22 45.7'N	46 10.6'W	0	77.26	0008	4470.	92.	0000	15		
CHN	44	1	0009	0000	18	641016	22 46.2'N	46 9.8'W	0	77.26	0009	4470.	95.	0000	15		
CHN	44	1	0010	0000	13	641018	22 46.8'N	46 9.0'W	0	77.26	0010	4470.	0.	0118	15		
CHN	44	1	0011	0000	15	641017	22 46.5'N	46 9.2'W	0	77.26	0011	4470.	783.	0057	15		
CHN	44	1	0012	0000	18	641018	22 48.0'N	46 0.5'W	0	77.26	0012	3922.	95.	0000	15		
CHN	44	1	0015	0000	13	641019	22 15.1'N	46 21.8'W	0	77.26	0016	3915.	53.	0000	15		
CHN	44	1	0016	0000	15	641020	22 15.2'N	46 21.8'W	0	77.26	0016	3915.	53.	0000	15		
CHN	44	1	0017	0000	18	641020	22 15.7'N	46 23.0'W	0	77.26	0017	4060.	80.	0000	15		
CHN	44	1	0018	0000	18	641020	22 16.0'N	46 23.7'W	0	77.26	0018	4060.	82.	0000	15		
CHN	44	1	0019	0000	18	641020	22 16.4'N	46 24.6'W	0	77.26	0019	4060.	71.	0000	15		
CHN	44	1	0020	0000	18	641020	22 16.4'N	46 24.6'W	0	77.26	0019	4060.	71.	0000	15		
CHN	44	1	0021	0000	18	641020	22 16.9'N	46 26.1'W	0	77.26	0021	3820.	96.	0000	15		
CHN	44	1	0022	0000	15	641020	22 15.6'N	46 23.2'W	0	77.26	0022	4049.	985.	0117	15		
CHN	44	1	0023	0000	15	641020	22 18.5'N	46 23.1'W	0	77.26	0023	4064.	0.	0073	15		
CHN	44	1	0026	0000	18	641020	22 19.9'N	46 22.4'W	0	77.26	0026	4040.	35.	0000	15		
CHN	44	1	0027	0000	18	641020	22 19.2'N	46 22.8'W	0	77.26	0027	4070.	56.	0000	15		
CHN	44	1	0029	0000	18	641021	22 16.9'N	46 24.0'W	0	77.26	0029	4070.	73.	0000	15		
AII	92	2	0021	0000	15	75 926	23 5.8'N	43 36.7'W	9	77.33	0006	4422.	526.	0000	15	373153	
AII	92	2	0021	0000	26	75 926	23 5.8'N	43 36.7'W	9	77.33	0006	4422.	109.	0000	15	333953	
AII	92	2	0025	0000	13	7510 1	23 6.8'N	43 31.6'W	9	77.33	0001	3862.	275.	0000	15	333200	
AII	123	2	0000	0000	17	8911 2	26 48.9'N	44 42.0'W	9	77.64	0001	0.	1.	0000	15	3300	
CHN	61	10	0174	0000	15	6612 9	27 52.5'N	45 55.0'W	1	77.75	0000	4148.	708.	0000	15	332941	
CHN	61	10	0175	0000	15	6612 9	27 52.5'N	45 10.5'W	1	77.75	0000	3690.	552.	0000	15	332941	
CHN	21	1	0011	0000	13	61 9 3	28 52.2'N	42 54.0'W	1	77.82	0011	3529.	0.	0000	16	000000	
CHN	21	1	0012	0000	13	61 9 4	28 51.3'N	42 48.4'W	1	77.82	0012	3480.	3480.	0000	16	000000	
CHN	21	1	0009	0000	13	61 9 2	28 54.0'N	43 36.3'W	1	77.83	0009	2933.	0.	0000	14	000000	
CHN	21	1	0005	0000	13	61 830	28 45.3'N	44 56.3'W	1	77.84	0005	3923.	170.	0000	15	335000	
CHN	61	10	0177	0000	15	661211	28 19.0'N	45 32.0'W	1	77.85	0000	3881.	447.	0000	15	335941	
CHN	21	1	0004	0000	13	61 830	28 56.5'N	46 44.5'W	1	77.86	0004	4376.	0.	0000	0	000000	
CHN	61	10	0178	0000	15	661211	28 43.5'N	46 48.0'W	1	77.86	0000	4300.	398.	0000	15	396941	
CHN	21	1	0002	0000	13	61 829	28 57.7'N	48 56.5'W	1	77.88	0002	4532.	0.	0000	11	000000	
CHN	99	2	0006	0000	15	70 427	29 22.1'N	40 51.3'W	8	77.90	0005	3301.	194.	0000	14	332300	

MARSDEN SQUARE # 77

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	21	1	0013	0000	13	61 9 4	29 2.4'N	41 9.5'W	1	77.91	0013	4057.	108.	0000	15	335000
CHN	96	4	0004	0000	15	691112	29 52.8'N	41 19.4'W	8	77.91	0004	3608.	253.	0000	14	332954
CHN	96	4	0004	0000	26	691112	29 52.8'N	41 19.4'W	8	77.91	0004	3608.	40.	0000	14	332954
CHN	99	2	0005	0000	15	70 427	29 27.8'N	41 34.3'W	8	77.91	0004	3318.	830.	0000	14	373100
CHN	21	1	0010	0000	13	61 9 3	29 3.2'N	43 11.0'W	1	77.93	0010	3065.	0.	0000	16	000000
CHN	21	1	0006	0000	13	61 9 1	29 5.9'N	44 33.2'W	1	77.94	0006	3328.	0.	0000	14	000000
CHN	21	1	0007	0000	13	61 9 2	29 4.7'N	44 16.2'W	1	77.94	0007	3798.	0.	0000	14	000000
CHN	21	1	0008	0000	13	61 9 2	29 5.0'N	44 11.1'W	1	77.94	0008	3792.	167.	0000	14	335000
CHN	21	1	0003	0000	13	61 829	29 0.0'N	47 22.0'W	1	77.97	0003	4715.	0.	0000	15	000000

MARSDEN SQUARE # 78

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	42	1	0034	0000	15	68 719	20 20.5'N	50 51.8'W	1	78.00	0022	4802.	848.	0000	15	342854
AII	42	1	0035	0000	15	68 719	20 37.5'N	51 51.5'W	1	78.01	0023	5155.	45.	0000	11	293447
AII	42	1	037B	0000	13	68 720	21 0.0'N	52 56.0'W	1	78.12	0001	4701.	145.	0000	11	335200
AII	42	1	0038	0000	15	68 720	21 18.5'N	53 58.0'W	1	78.13	0024	5286.	895.	0000	11	432254
AII	42	1	0039	0000	15	68 721	21 44.0'N	55 2.0'W	1	78.15	0025	5294.	805.	0000	11	132954
AII	42	1	0041	0000	15	68 721	22 14.0'N	56 39.0'W	1	78.26	0027	5962.	738.	0000	11	115954
CHN	39	2	0007	0000	13	63 911	24 3.3'N	55 15.0'W	5	78.45	0003	5984.	172.	0000	11	115900
AII	42	1	0042	0000	15	68 722	24 16.0'N	58 23.0'W	1	78.48	0028	5823.	746.	0000	11	115954
AII	42	1	0042	0000	26	68 722	24 16.0'N	58 23.0'W	1	78.48	0028	5823.	197.	0000	11	115900
CHN	39	2	0004	0000	13	63 910	25 18.0'N	55 44.5'W	5	78.55	0002	5937.	201.	0000	11	117900
CHN	39	2	0009	0000	13	63 913	27 55.5'N	57 0.0'W	5	78.77	0004	5960.	172.	0000	11	115900
CHN	39	2	0010	0000	13	63 914	28 30.0'N	57 59.0'W	5	78.87	0005	5696.	160.	0000	11	142900
CHN	21	1	0001	0000	13	61 827	29 51.0'N	54 35.2'W	5	78.94	0001	5607.	0.	0000	11	000000
CHN	39	2	0001	0000	13	63 9 6	29 0.0'N	59 13.0'W	5	78.99	0001	5815.	291.	0000	11	486900

MARSDEN SQUARE # 79

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	36	1	0003	0000	15	63 622	20 18.0'N	63 39.5'W	5	79.03	0002	5728.	41.	0000	17	122300
CHN	57	1	0016	0000	15	66 317	20 5.3'N	64 35.7'W	5	79.04	0002	5808.	465.	0000	17	162900
CHN	57	1	0016	0000	26	66 317	20 5.3'N	64 35.7'W	5	79.04	0002	5808.	44.	0000	17	162900
CHN	57	1	0028	0000	15	66 4 6	20 0.0'N	64 17.8'W	5	79.04	0009	6414.	700.	0000	17	162900
CHN	57	1	0014	0000	15	66 314	20 14.2'N	65 21.5'W	5	79.05	0001	6154.	581.	0000	17	665900
CHN	57	1	0014	0000	26	66 314	20 14.2'N	65 21.5'W	5	79.05	0001	6154.	61.	0000	17	665900
CHN	57	1	0018	0000	15	66 318	20 6.3'N	65 1.2'W	5	79.05	0003	6159.	547.	0000	17	112900
CHN	57	1	0029	0000	15	66 4 6	20 6.2'N	65 50.5'W	5	79.05	0010	7074.	604.	0000	17	113900
CHN	11	1	0012	0000	15	60 229	20 50.0'N	66 27.0'W	4	79.06	0012	4548.	550.	0000	17	117900
CHN	19	1	0002	0000	15	61 624	20 12.1'N	66 36.2'W	5	79.06	0002	5789.	463.	0000	17	115000
CHN	19	1	0003	0000	15	61 7 1	20 15.0'N	66 33.3'W	5	79.06	0003	5787.	474.	0000	17	115000
CHN	57	1	0021	0000	15	66 323	20 3.3'N	66 9.0'W	5	79.06	0004	6618.	298.	0000	17	246400
ATL	282	1	0012	0000	13	62 724	20 22.0'N	67 23.0'W	5	79.07	0012	5416.	155.	0000	13	414341
CHN	57	1	0036	0000	15	66 410	20 11.4'N	67 38.6'W	5	79.07	0012	5547.	532.	0000	17	196800
AII	60	8	0029	0000	14	71 814	20 38.5'N	68 25.0'W	5	79.08	0024	5157.	108.	0000	13	335900
AII	60	8	0030	0000	14	71 814	20 13.0'N	68 37.0'W	5	79.08	0025	4850.	123.	0000	13	335900
AII	31	1	0020	0000	15	67 426	21 28.5'N	60 29.0'W	1	79.10	0020	5634.	752.	0000	16	112900
AII	31	1	0020	0000	26	67 426	21 28.5'N	60 29.0'W	1	79.10	0020	5634.	93.	0000	16	115900
CHN	36	1	0001	0000	13	63 620	21 7.3'N	65 2.5'W	5	79.15	0001	5306.	173.	0000	17	412200

MARSDEN SQUARE # 79

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
ATL	282	1	0013	0000	13	62 729	21 54.0'N	66 37.0'W	5	79.16	0013	5653.	131.	0000	13		415941
AII	60	8	0027	0000	14	71 813	21 51.1'N	67 40.9'W	9	79.17	0022	5207.	118.	0000	13		335900
KNR	25	1	0004	0000	16	72 216	21 30.0'N	67 31.0'W	5	79.17	0004	5163.	2159.	0000	13		442200
AII	60	8	0028	0000	14	71 814	21 7.3'N	68 6.3'W	9	79.18	0023	5444.	109.	0000	13		335900
ATL	282	1	0011	0000	13	62 723	21 47.0'N	68 51.0'W	5	79.18	0011	5513.	185.	0000	13		185941
CHN	57	1	0038	0000	15	66 411	21 30.8'N	68 14.7'W	5	79.18	0014	5368.	551.	0000	13		194200
AII	60	8	0024	0000	14	71 812	22 51.6'N	66 32.3'W	9	79.26	0019	5821.	112.	0000	13		433900
AII	60	8	0025	0000	14	71 813	22 31.9'N	66 54.9'W	9	79.26	0020	5658.	110.	0000	13		445900
CHN	57	1	0022	0000	15	66 325	22 40.7'N	66 29.6'W	5	79.26	0005	5820.	841.	0000	10		184900
CHN	57	1	0022	0000	26	66 325	22 40.7'N	66 29.6'W	5	79.26	0005	5820.	76.	0000	10		412900
CHN	57	1	0023	0000	15	66 325	22 28.0'N	66 34.0'W	5	79.26	0006	5613.	816.	0000	10		142900
CHN	57	1	0023	0000	26	66 325	22 28.0'N	66 34.0'W	5	79.26	0006	5613.	88.	0000	10		115900
AII	60	8	0023	0000	13	71 812	22 44.0'N	67 53.7'W	9	79.27	0019	5365.	226.	0000	13		396900
AII	60	8	0023	0000	14	71 812	22 44.2'N	67 55.8'W	9	79.27	0018	5320.	81.	0000	13		335900
AII	60	8	0026	0000	14	71 813	22 15.5'N	67 21.0'W	5	79.27	0021	5417.	117.	0000	13		496900
CHN	57	1	0024	0000	15	66 329	22 42.3'N	67 42.2'W	5	79.27	0007	5531.	895.	0000	10		483900
CHN	57	1	0024	0000	26	66 329	22 42.3'N	67 42.2'W	5	79.27	0007	5531.	80.	0000	10		143900
CHN	57	1	0025	0000	15	66 329	22 40.0'N	67 41.0'W	5	79.27	0008	5389.	927.	0000	10		242900
KNR	25	1	0003	0000	17	72 215	22 15.0'N	67 57.5'W	5	79.27	0003	5374.	1139.	0000	13		246200
KNR	25	1	0013	0000	13	72 215	22 15.4'N	67 56.9'W	5	79.27	0013	5374.	39.	0000	13		445900
AII	60	8	0011	0000	13	71 8 8	22 51.4'N	68 45.6'W	9	79.28	0007	5504.	184.	0000	13		443900
AII	60	8	0011	0000	14	71 8 7	22 50.2'N	68 43.8'W	9	79.28	0006	5504.	114.	0000	13		445900
AII	60	8	0012	0000	14	71 8 8	22 59.9'N	68 32.7'W	9	79.28	0007	5445.	101.	0000	13		496900
AII	60	8	0022	0000	13	71 811	22 51.0'N	68 13.3'W	5	79.28	0018	5282.	130.	0000	13		496900
AII	60	8	0022	0000	14	71 812	22 51.5'N	68 17.1'W	9	79.28	0017	5313.	110.	0000	13		335900
ATL	282	1	0014	0000	13	62 730	23 40.0'N	65 37.0'W	5	79.35	0014	5771.	243.	0000	10		115941
AII	60	8	0015	0000	14	71 8 9	23 28.8'N	67 51.5'W	5	79.37	0010	5630.	107.	0000	13		496900
AII	60	8	0015	0000	13	71 8 9	23 28.5'N	67 51.9'W	9	79.37	0011	5630.	262.	0000	13		433900
AII	60	8	0016	0000	14	71 8 9	23 39.7'N	67 41.3'W	9	79.37	0011	5766.	119.	0000	13		396900
ATL	282	1	0010	0000	13	62 722	23 37.0'N	67 54.0'W	5	79.37	0010	5668.	171.	0000	10		415941
AII	60	8	0006	0000	14	71 8 5	23 56.6'N	68 30.6'W	9	79.38	0001	5566.	61.	0000	13		335900
AII	60	8	0007	0000	14	71 8 6	23 46.0'N	68 43.5'W	9	79.38	0002	5349.	96.	0000	13		335900
AII	60	8	0008	0000	13	71 8 6	23 35.0'N	68 54.0'W	5	79.38	0004	5204.	203.	0000	13		412600
AII	60	8	0008	0000	14	71 8 6	23 35.6'N	68 55.7'W	5	79.38	0003	5202.	92.	0000	13		335900
AII	60	8	0013	0000	14	71 8 8	23 10.0'N	68 19.3'W	5	79.38	0008	5246.	108.	0000	13		332900
AII	60	8	0014	0000	13	71 8 8	23 19.8'N	68 5.6'W	9	79.38	0010	5450.	149.	0000	13		442900
AII	60	8	0014	0000	14	71 8 9	23 19.5'N	68 5.5'W	5	79.38	0009	5444.	105.	0000	13		335900
AII	60	8	0017	0000	13	71 810	23 54.2'N	68 4.9'W	9	79.38	0013	5719.	189.	0000	13		143900
AII	60	8	0017	0000	14	71 8 9	23 53.1'N	68 3.3'W	9	79.38	0012	5715.	106.	0000	13		335900
AII	60	8	0018	0000	14	71 810	23 43.4'N	68 16.6'W	9	79.38	0013	5520.	89.	0000	13		335900
AII	60	8	0019	0000	14	71 810	23 37.4'N	68 24.6'W	9	79.38	0014	5379.	115.	0000	13		335900
AII	60	8	0019	0000	13	71 810	23 36.0'N	68 23.2'W	9	79.38	0015	5379.	145.	0000	13		432900
AII	60	8	0020	0000	13	71 811	23 27.9'N	68 33.8'W	9	79.38	0016	5249.	222.	0000	13		431600
AII	60	8	0020	0000	14	71 811	23 29.4'N	68 35.0'W	9	79.38	0015	5223.	91.	0000	13		335900
AII	60	8	0021	0000	14	71 811	23 15.5'N	68 43.5'W	5	79.38	0016	5303.	111.	0000	13		396900
AII	60	8	0021	0000	13	71 811	23 14.7'N	68 42.4'W	5	79.38	0017	5333.	55.	0000	13		335900
KNR	25	1	0002	0000	16	72 215	23 55.6'N	68 36.4'W	5	79.38	0002	5515.	832.	0000	13		626200
KNR	25	1	0006	0000	14	72 212	23 52.6'N	68 35.1'W	9	79.38	0006	5486.	145.	0000	13		444900
KNR	25	1	0007	0000	14	72 213	23 43.5'N	68 41.5'W	5	79.38	0007	5306.	145.	0000	13		444900
KNR	25	1	0008	0000	14	72 213	23 57.2'N	68 59.0'W	9	79.38	0008	5451.	142.	0000	13		444900

MARSDEN SQUARE # 79

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	60	8	0003	0000	13	71 8 4	23 49.0'N	69 31.8'W	9	79.39	002C	5363.	270.	0000	13	413600	
AII	60	8	0009	0000	14	71 8 7	23 25.6'N	69 4.5'W	9	79.39	0004	5398.	89.	0000	13	335900	
AII	60	8	0009	0000	13	71 8 6	23 24.0'N	69 2.0'W	5	79.39	0005	5368.	231.	0000	13	343600	
AII	60	8	0010	0000	13	71 8 7	23 10.0'N	69 18.0'W	5	79.39	0006	5501.	176.	0000	13	413900	
AII	60	8	0010	0000	14	71 8 7	23 11.0'N	69 18.7'W	9	79.39	0005	5501.	95.	0000	13	445900	
KNR	25	1	0004	0000	14	72 216	23 45.2'N	69 40.8'W	5	79.39	0004	5392.	136.	0000	13	445900	
KNR	25	1	0005	0000	14	72 212	23 48.5'N	69 54.5'W	5	79.39	0005	5409.	140.	0000	13	444900	
KNR	25	1	0009	0000	14	72 213	23 24.0'N	69 6.1'W	9	79.39	0009	5411.	147.	0000	13	444900	
KNR	25	1	0012	0000	13	72 214	23 46.7'N	69 42.3'W	5	79.39	0012	5419.	68.	0000	13	445900	
AII	60	8	0005	0000	13	71 8 5	24 8.3'N	68 20.3'W	9	79.48	003C	5768.	28.	0000	13	283900	
AII	97	2	0001	0000	15	78 212	24 59.4'N	68 4.0'W	9	79.48	0001	5515.	783.	0000	13	442253	
AII	97	2	0001	0000	26	78 212	24 59.4'N	68 4.0'W	9	79.48	0001	5515.	143.	0000	13	445200	
KNR	25	1	0002	0000	14	72 210	24 42.2'N	68 8.0'W	9	79.48	0002	5689.	147.	0000	10	224000	
KNR	25	1	0003	0000	14	72 211	24 23.8'N	68 11.4'W	9	79.48	0003	5729.	150.	0000	10	444200	
ATL	282	1	0015	0000	13	62 731	25 29.0'N	64 34.0'W	5	79.54	0015	5706.	245.	0000	10	115941	
ATL	282	1	0017	0000	13	62 8 2	25 26.5'N	66 40.0'W	5	79.56	0017	5602.	254.	0000	13	415341	
AII	97	2	0004	0000	15	78 215	25 1.8'N	68 2.5'W	11	79.58	0002	5480.	876.	0000	13	442253	
AII	97	2	0004	0000	26	78 215	25 1.8'N	68 2.5'W	11	79.58	0002	5480.	143.	0000	13	485300	
AII	97	2	0008	0000	15	78 217	25 4.9'N	68 1.5'W	11	79.58	0003	5433.	662.	0000	13	484353	
AII	97	2	0008	0000	26	78 217	25 4.9'N	68 1.5'W	11	79.58	0003	5433.	144.	0000	13	445900	
AII	97	2	0009	0000	15	78 218	25 6.7'N	68 1.6'W	11	79.58	0004	5429.	645.	0000	13	445953	
AII	97	2	0009	0000	26	78 218	25 6.7'N	68 1.6'W	11	79.58	0004	5429.	144.	0000	13	486900	
AII	97	2	0010	0000	26	78 220	25 1.6'N	68 4.1'W	9	79.58	0005	5515.	144.	0000	13	486900	
AII	97	2	0010	0000	15	78 220	25 1.6'N	68 4.1'W	9	79.58	0005	5515.	1024.	0000	13	486253	
AII	108	5	0018	0000	15	81 523	25 2.6'N	68 3.1'W	9	79.58	0014	5615.	866.	0000	10	1323	
AII	108	5	0018	0000	26	81 523	25 2.6'N	68 3.1'W	9	79.58	0014	5615.	159.	0000	10	1159	
AII	108	5	0019	0000	15	81 523	25 7.6'N	68 4.8'W	9	79.58	0015	5620.	873.	0000	10	1323	
AII	108	5	0019	0000	26	81 523	25 7.6'N	68 4.8'W	9	79.58	0015	5620.	156.	0000	10	1159	
AII	108	5	0020	0000	15	81 523	25 6.6'N	68 2.4'W	9	79.58	0016	5573.	838.	0000	10	1323	
AII	108	5	0020	0000	26	81 523	25 6.6'N	68 2.4'W	9	79.58	0016	5573.	158.	0000	10	1159	
KNR	25	1	0001	0000	14	72 210	25 1.5'N	68 3.5'W	5	79.58	0001	5523.	61.	0000	10	444900	
ATL	282	1	0009	0000	13	62 721	25 18.0'N	69 1.0'W	5	79.59	0009	5593.	196.	0000	10	415941	
AII	31	1	0021	0000	15	67 428	26 28.0'N	61 41.5'W	1	79.61	0021	5884.	521.	0000	10	223100	
AII	42	1	0043	0000	15	68 723	27 16.0'N	60 37.5'W	1	79.70	0029	5629.	257.	0000	10	146954	
AII	42	1	0043	0000	26	68 723	27 16.0'N	60 37.5'W	1	79.70	0029	5629.	165.	0000	10	445900	
AII	31	1	0022	0000	15	67 429	27 29.5'N	63 5.5'W	1	79.73	0022	5380.	92.	0000	10	142900	
ATL	282	1	0016	0000	13	62 8 1	27 10.0'N	65 40.0'W	5	79.75	0016	5413.	197.	0000	13	145341	
ATL	282	1	0018	0000	13	62 8 2	27 5.0'N	67 56.0'W	5	79.77	0018	5195.	246.	0000	13	144941	
ATL	282	1	0022	0000	13	62 8 6	28 54.0'N	64 39.0'W	5	79.84	0022	4846.	301.	0000	13	346941	
ATL	282	1	0002	0000	13	62 713	28 52.0'N	66 51.0'W	5	79.86	0002	5451.	190.	0000	13	345941	
ATL	282	1	0021	0000	13	62 8 5	28 51.0'N	66 50.0'W	5	79.86	0021	5306.	224.	0000	13	142941	
ATL	282	1	0020	0000	13	62 8 4	28 44.0'N	69 5.0'W	5	79.89	0020	5325.	243.	0000	13	412941	
CHN	39	2	0011	0000	13	63 916	29 55.0'N	60 31.5'W	4	79.90	0006	5705.	193.	0000	11	114300	
AII	42	1	0044	0000	15	68 724	29 4.0'N	62 0.0'W	1	79.92	0030	5265.	911.	0000	13	242954	
CHN	39	2	0015	0000	13	63 919	29 46.5'N	62 11.5'W	4	79.92	0007	4897.	212.	0000	11	314900	
ATL	282	1	0001	0000	13	62 712	29 39.0'N	66 22.0'W	5	79.96	0001	5128.	209.	0000	13	412941	
CHN	47	1	0030	0000	18	65 5 4	29 30.5'N	67 9.4'W	5	79.97	0002	5131.	97.	0000	13	342200	

MARSDEN SQUARE # 80

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	41	1	0001	0000	13	6312 5	21 53.0'N	70 16.0'W	5	80.10	0001	5492.	0.	0000	13	000000	
KNR	25	6	0225	0000	13	72 5 2	22 48.0'N	71 30.0'W	5	80.21	0001	5152.	110.	0000	13	326900	
ATL	282	1	0003	0000	13	62 716	23 32.5'N	70 2.0'W	5	80.30	0003	5492.	120.	0000	10	484141	
ATL	282	1	0005	0000	13	62 717	23 28.0'N	72 18.5'W	5	80.32	0005	5287.	164.	0000	13	414941	
ATL	282	1	0008	0000	13	62 720	25 11.0'N	71 16.0'W	5	80.51	0008	5520.	30.	0000	10	486941	
ATL	282	1	0006	0000	13	62 718	25 13.5'N	73 16.0'W	5	80.53	0006	5316.	188.	0000	13	485941	
OCE	205	2	0093	0000	17	881213	25 56.5'N	77 49.6'W	6	80.57	0093	1284.	225.	0000	8	3702	
OCE	205	2	0094	0000	16	881213	25 56.6'N	77 49.6'W	6	80.57	0094	1249.	614.	0000	8	3702	
OCE	205	2	0094	0000	26	881213	25 56.6'N	77 49.6'W	6	80.57	0094	1249.	135.	0000	8	3302	
OCE	205	2	0096	0000	17	881213	25 56.0'N	77 50.7'W	6	80.57	0096	1172.	125.	0000	8	3702	
OCE	205	2	0097	0000	16	881213	25 56.2'N	77 51.2'W	6	80.57	0097	1183.	263.	0000	8	3708	
OCE	205	2	0097	0000	26	881213	25 56.2'N	77 51.2'W	6	80.57	0097	1183.	26.	0000	8	3352	
OCE	205	2	0098	0000	17	881213	25 58.5'N	78 1.3'W	6	80.58	0098	879.	272.	0000	8	3701	
OCE	205	2	0099	0000	16	881213	25 59.0'N	78 1.2'W	6	80.58	0099	912.	373.	0000	8	3708	
OCE	205	2	0099	0000	26	881213	25 59.0'N	78 1.2'W	6	80.58	0099	912.	107.	0000	8	3332	
OCE	205	2	0106	0000	17	881214	25 58.6'N	78 10.9'W	6	80.58	0106	654.	209.	0000	8	3322	
OCE	205	2	0107	0000	16	881214	25 58.7'N	78 10.7'W	6	80.58	0107	679.	223.	0000	8	3002	
OCE	205	2	0108	0000	17	881214	25 59.0'N	78 10.8'W	6	80.58	0108	743.	260.	0000	8	3302	
OCE	205	2	0109	0000	16	881214	25 59.1'N	78 10.9'W	6	80.58	0109	737.	821.	0000	8	3302	
OCE	205	2	0109	0000	26	881214	25 59.1'N	78 10.9'W	6	80.58	0109	737.	70.	0000	8	3332	
OCE	205	2	0110	0000	17	881214	25 56.9'N	78 14.7'W	6	80.58	0110	537.	32.	0000	8	3752	
OCE	205	2	0111	0000	17	881214	25 55.4'N	78 7.4'W	6	80.58	0111	516.	46.	0000	8	3352	
OCE	205	2	0112	0000	16	881214	25 55.3'N	78 7.6'W	6	80.58	0112	513.	404.	0000	8	3007	
OCE	205	2	0112	0000	26	881214	25 55.3'N	78 7.6'W	6	80.58	0112	513.	25.	0000	8	3352	
OCE	205	2	0114	0000	17	881215	25 54.4'N	78 6.6'W	6	80.58	0114	463.	7.	0000	8	0000	
AII	108	5	0022	0000	15	81 524	26 56.4'N	71 9.4'W	9	80.61	0018	5586.	872.	0000	10	1861	
AII	108	5	0022	0000	26	81 524	26 56.4'N	71 9.4'W	9	80.61	0018	5586.	152.	0000	10	4869	
AII	108	5	0023	0000	15	81 525	26 57.6'N	71 24.4'W	9	80.61	0019	5508.	618.	0000	10	4430	
AII	108	5	0023	0000	26	81 525	26 57.6'N	71 24.4'W	9	80.61	0019	5508.	158.	0000	10	4437	
AII	108	5	0024	0000	15	81 525	26 55.7'N	71 25.8'W	9	80.61	0020	5508.	876.	0000	10	4338	
AII	108	5	0024	0000	26	81 525	26 55.7'N	71 25.8'W	9	80.61	0020	5508.	158.	0000	10	3430	
ATL	282	1	0007	0000	13	62 719	26 59.0'N	72 13.0'W	5	80.62	0007	5154.	228.	0000	10	412941	
KNR	64	1	0001	0000	15	77 130	26 51.1'N	75 13.9'W	6	80.65	0001	4615.	767.	0000	13	443200	
KNR	64	1	0001	0000	26	77 130	26 51.1'N	75 13.9'W	6	80.65	0001	4615.	144.	0000	13	343200	
KNR	64	1	0002	0000	15	77 130	26 51.7'N	75 14.8'W	6	80.65	0002	4010.	739.	0000	13	356200	
KNR	64	1	0002	0000	26	77 130	26 51.7'N	75 14.8'W	6	80.65	0002	4010.	103.	0000	13	343200	
OCE	205	2	0002	0000	17	8812 3	26 10.5'N	77 39.0'W	6	80.67	0002	708.	15.	0000	8	0000	
OCE	205	2	0004	0000	16	8812 3	26 10.3'N	77 30.0'W	6	80.67	0004	714.	133.	0000	8	3302	
OCE	205	2	0004	0000	26	8812 3	26 10.3'N	77 30.0'W	6	80.67	0004	714.	31.	0000	8	3332	
OCE	205	2	0006	0000	16	8812 3	26 10.2'N	77 38.4'W	6	80.67	0006	698.	290.	0000	8	3002	
OCE	205	2	0007	0000	16	8812 3	26 8.2'N	77 44.1'W	6	80.67	0007	1320.	595.	0000	8	3302	
OCE	205	2	0007	0000	26	8812 3	26 8.2'N	77 44.1'W	6	80.67	0007	1320.	63.	0000	8	3322	
OCE	205	2	0009	0000	16	8812 4	26 6.9'N	77 45.4'W	6	80.67	0009	1529.	297.	0000	8	3702	
OCE	205	2	0009	0000	26	8812 4	26 6.9'N	77 45.4'W	6	80.67	0009	1529.	86.	0000	8	3302	
OCE	205	2	0012	0000	17	8812 4	26 10.2'N	77 42.3'W	6	80.67	0012	1151.	49.	0000	8	3052	
OCE	205	2	0015	0000	15	8812 4	26 19.9'N	77 48.7'W	6	80.67	0015	934.	260.	0000	8	3702	
OCE	205	2	0015	0000	26	8812 4	26 19.9'N	77 48.7'W	6	80.67	0015	934.	85.	0000	8	3702	
OCE	205	2	0017	0000	15	8812 5	26 19.9'N	77 48.8'W	6	80.67	0017	935.	447.	0000	8	3308	
OCE	205	2	0017	0000	26	8812 5	26 19.9'N	77 48.8'W	6	80.67	0017	935.	99.	0000	8	3302	
OCE	205	2	0019	0000	15	8812 5	26 6.4'N	77 45.0'W	6	80.67	0019	1583.	273.	0000	8	3737	

MARSDEN SQUARE # 80

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
OCE	205	2	0019	0000	26	8812 5	26 6.4'N	77 45.0'W	6	80.67	0019	1583.	69.	0000	8	3332	
OCE	205	2	0020	0000	17	8812 5	26 7.0'N	77 44.1'W	6	80.67	0020	1465.	54.	0000	8	3332	
OCE	205	2	0021	0000	15	8812 5	26 7.1'N	77 44.2'W	6	80.67	0021	1468.	607.	0000	8	3338	
OCE	205	2	0021	0000	26	8812 5	26 7.1'N	77 44.2'W	6	80.67	0021	1468.	5.	0000	8	0000	
OCE	205	2	0022	0000	17	8812 5	26 9.4'N	77 43.2'W	6	80.67	0022	1227.	50.	0000	8	3322	
OCE	205	2	0023	0000	15	8812 5	26 9.6'N	77 43.1'W	6	80.67	0023	1222.	754.	0000	8	3302	
OCE	205	2	0023	0000	26	8812 5	26 9.6'N	77 43.1'W	6	80.67	0023	1222.	105.	0000	8	3322	
OCE	205	2	0024	0000	17	8812 5	26 11.3'N	77 42.2'W	6	80.67	0024	1043.	35.	0000	8	3332	
OCE	205	2	0025	0000	15	8812 6	26 11.0'N	77 42.3'W	6	80.67	0025	1034.	435.	0000	8	3308	
OCE	205	2	0028	0000	17	8812 6	26 10.6'N	77 42.6'W	6	80.67	0028	1143.	40.	0000	8	3352	
OCE	205	2	0029	0000	15	8812 6	26 10.6'N	77 42.7'W	6	80.67	0029	1149.	709.	0000	8	3002	
OCE	205	2	0029	0000	26	8812 6	26 10.6'N	77 42.7'W	6	80.67	0029	1149.	57.	0000	8	3702	
OCE	205	2	0031	0000	17	8812 6	26 11.0'N	77 39.0'W	6	80.67	0031	693.	24.	0000	8	3332	
OCE	205	2	0032	0000	15	8812 6	26 11.0'N	77 38.9'W	6	80.67	0032	683.	590.	0000	8	3332	
OCE	205	2	0033	0000	17	8812 6	26 13.3'N	77 41.5'W	6	80.67	0033	783.	224.	0000	8	3322	
OCE	205	2	0034	0000	15	8812 6	26 13.3'N	77 41.4'W	6	80.67	0034	769.	763.	0000	8	3302	
OCE	205	2	0034	0000	26	8812 6	26 13.3'N	77 41.4'W	6	80.67	0034	769.	81.	0000	8	3302	
OCE	205	2	0035	0000	17	8812 6	26 13.5'N	77 42.2'W	6	80.67	0035	991.	43.	0000	8	3302	
OCE	205	2	0036	0000	15	8812 7	26 13.6'N	77 42.4'W	6	80.67	0036	900.	762.	0000	8	3308	
OCE	205	2	0036	0000	26	8812 7	26 13.6'N	77 42.4'W	6	80.67	0036	900.	102.	0000	8	3302	
OCE	205	2	0038	0000	17	8812 7	26 13.1'N	77 39.8'W	6	80.67	0038	562.	20.	0000	8	3352	
OCE	205	2	0041	0000	17	8812 7	26 13.7'N	77 40.4'W	6	80.67	0041	599.	43.	0000	8	3332	
OCE	205	2	0042	0000	15	8812 7	26 13.9'N	77 40.6'W	6	80.67	0042	593.	558.	0000	8	3002	
OCE	205	2	0043	0000	17	8812 7	26 15.0'N	77 40.6'W	6	80.67	0043	479.	29.	0000	8	3350	
OCE	205	2	0045	0000	17	8812 8	26 15.6'N	77 42.2'W	6	80.67	0046	578.	7.	0000	8	0000	
OCE	205	2	0046	0000	15	8812 8	26 15.8'N	77 42.2'W	6	80.67	0046	570.	205.	0000	8	3007	
OCE	205	2	0048	0000	19	8812 8	26 14.2'N	77 41.0'W	6	80.67	0048	595.	24.	0000	8	3350	
OCE	205	2	0050	0000	19	8812 8	26 13.5'N	77 41.8'W	6	80.67	0050	817.	38.	0000	8	3332	
OCE	205	2	0051	0000	19	8812 8	26 13.5'N	77 42.1'W	6	80.67	0051	830.	30.	0000	8	3332	
OCE	205	2	0052	0000	19	8812 8	26 14.2'N	77 41.5'W	6	80.67	0052	668.	30.	0000	8	3332	
OCE	205	2	0053	0000	19	8812 8	26 11.6'N	77 42.5'W	6	80.67	0053	1038.	24.	0000	8	3352	
OCE	205	2	0054	0000	19	8812 8	26 11.7'N	77 42.5'W	6	80.67	0054	1043.	21.	0000	8	0000	
OCE	205	2	0055	0000	19	8812 9	26 10.1'N	77 42.4'W	6	80.67	0055	1140.	30.	0000	8	3382	
OCE	205	2	0058	0000	19	8812 9	26 9.9'N	77 43.3'W	6	80.67	0058	1237.	23.	0000	8	3332	
OCE	205	2	0059	0000	19	8812 9	26 10.0'N	77 44.4'W	6	80.67	0059	1477.	32.	0000	8	3338	
OCE	205	2	0060	0000	19	8812 9	26 8.5'N	77 44.1'W	6	80.67	0060	1312.	27.	0000	8	3322	
OCE	205	2	0061	0000	19	8812 9	26 7.4'N	77 44.8'W	6	80.67	0061	0.	33.	0000	8	3332	
OCE	205	2	0062	0000	15	8812 9	26 7.4'N	77 44.8'W	6	80.67	0062	1586.	804.	0000	8	3702	
OCE	205	2	0062	0000	26	8812 9	26 7.4'N	77 44.8'W	6	80.67	0062	1586.	122.	0000	8	3302	
OCE	205	2	0063	0000	17	881210	26 7.7'N	77 43.9'W	6	80.67	0063	0.	210.	0000	8	3702	
OCE	205	2	0066	0000	17	881210	26 9.2'N	77 44.5'W	6	80.67	0066	1405.	8.	0000	8	0000	
OCE	205	2	0067	0000	19	881210	26 9.2'N	77 44.4'W	6	80.67	0067	1392.	32.	0000	8	3722	
OCE	205	2	0068	0000	19	881210	26 10.7'N	77 43.4'W	6	80.67	0068	1203.	30.	0000	8	3702	
OCE	205	2	0069	0000	19	881210	26 13.7'N	77 41.5'W	6	80.67	0069	735.	33.	0000	8	0000	
OCE	205	2	0070	0000	19	881210	26 13.3'N	77 42.2'W	6	80.67	0070	876.	32.	0000	8	0000	
OCE	205	2	0072	0000	19	881211	26 13.5'N	77 42.7'W	6	80.67	0072	908.	41.	0000	8	3332	
OCE	205	2	0075	0000	17	881211	26 14.0'N	77 40.0'W	6	80.67	0075	545.	145.	0000	8	3322	
OCE	205	2	0076	0000	19	881211	26 13.9'N	77 39.9'W	6	80.67	0076	529.	41.	0000	8	3350	
OCE	205	2	0077	0000	17	881211	26 14.6'N	77 39.5'W	6	80.67	0077	0.	31.	0000	8	3352	
OCE	205	2	0116	0000	17	881215	26 2.0'N	77 52.5'W	6	80.67	0116	1534.	229.	0000	8	3322	

MARSDEN SQUARE # 80

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
OCE	205	2	0117	0000	16	881215	26 2.0'N	77 52.7'W	6	80.67	0117	1535.	703.	0000	8	3708	
OCE	205	2	0117	0000	26	881215	26 2.0'N	77 52.7'W	6	80.67	0117	1535.	60.	0000	8	3332	
OCE	205	2	0118	0000	17	881215	26 7.4'N	77 44.1'W	6	80.67	0118	1451.	52.	0000	8	3332	
OCE	205	2	0119	0000	16	881215	26 7.3'N	77 44.0'W	6	80.67	0119	1464.	227.	0000	8	3708	
OCE	205	2	0119	0000	26	881215	26 7.3'N	77 44.0'W	6	80.67	0119	1464.	36.	0000	8	3332	
OCE	205	2	0120	0000	16	881215	26 7.4'N	77 44.1'W	6	80.67	0120	1466.	643.	0000	8	3308	
OCE	205	2	0120	0000	26	881215	26 7.4'N	77 44.1'W	6	80.67	0120	1466.	72.	0000	8	3332	
OCE	205	2	0121	0000	17	881216	26 9.3'N	77 43.5'W	6	80.67	0121	1253.	51.	0000	8	3322	
OCE	205	2	0122	0000	16	881216	26 9.4'N	77 43.4'W	6	80.67	0122	1263.	55.	0000	8	3001	
OCE	205	2	0122	0000	26	881216	26 9.4'N	77 43.4'W	6	80.67	0122	1263.	3.	0000	8	0000	
OCE	205	2	0140	0000	17	881216	26 12.0'N	77 42.0'W	6	80.67	0140	964.	45.	0000	8	3322	
OCE	205	2	0141	0000	16	881216	26 12.0'N	77 41.0'W	6	80.67	0141	958.	287.	0000	8	3308	
OCE	205	2	0141	0000	26	881216	26 12.0'N	77 41.0'W	6	80.67	0141	958.	44.	0000	8	3302	
OCE	205	2	0142	0000	16	881216	26 11.9'N	77 41.9'W	6	80.67	0142	955.	154.	0000	8	3302	
OCE	205	2	0142	0000	26	881216	26 11.9'N	77 41.9'W	6	80.67	0142	955.	91.	0000	8	3322	
OCE	205	2	0143	0000	17	881216	26 13.8'N	77 42.3'W	6	80.67	0143	805.	63.	0000	8	3302	
OCE	205	2	0144	0000	16	881216	26 13.8'N	77 42.3'W	6	80.67	0144	833.	551.	0000	8	3308	
OCE	205	2	0144	0000	26	881216	26 13.8'N	77 42.3'W	6	80.67	0144	833.	47.	0000	8	3328	
OCE	205	2	0145	0000	17	881217	26 13.0'N	77 39.6'W	6	80.67	0145	539.	18.	0000	8	3320	
OCE	205	2	0146	0000	16	881217	26 13.0'N	77 39.6'W	6	80.67	0146	542.	249.	0000	8	3027	
OCE	205	2	0146	0000	26	881217	26 13.0'N	77 39.6'W	6	80.67	0146	542.	8.	0000	8	3350	
OCE	205	2	0148	0000	17	881217	26 15.6'N	77 40.3'W	6	80.67	0148	434.	160.	0000	8	3350	
OCE	205	2	0149	0000	16	881217	26 15.6'N	77 40.3'W	6	80.67	0149	0.	249.	0000	8	3002	
OCE	205	2	0149	0000	26	881217	26 15.6'N	77 40.3'W	6	80.67	0149	0.	0.	0000	8	0000	
OCE	205	2	0150	0000	17	881217	26 15.6'N	77 40.3'W	6	80.67	0150	0.	94.	0000	8	3352	
OCE	205	2	0151	0000	17	881217	26 13.8'N	77 40.3'W	6	80.67	0151	587.	40.	0000	8	3352	
OCE	205	2	0152	0000	16	881217	26 13.6'N	77 40.2'W	6	80.67	0152	577.	587.	0000	8	3002	
OCE	205	2	0152	0000	26	881217	26 13.6'N	77 40.2'W	6	80.67	0152	577.	20.	0000	8	3352	
OCE	205	2	0153	0000	17	881217	26 11.7'N	77 42.6'W	6	80.67	0153	1039.	43.	0000	8	3322	
OCE	205	2	0154	0000	16	881217	26 11.6'N	77 42.5'W	6	80.67	0154	1044.	495.	0000	8	3302	
OCE	205	2	0154	0000	26	881217	26 11.6'N	77 42.5'W	6	80.67	0154	1044.	0.	0000	8	0000	
OCE	205	2	0100	0000	17	881213	26 3.7'N	78 1.7'W	6	80.68	0100	1057.	288.	0000	8	3302	
OCE	205	2	0101	0000	16	881213	26 3.8'N	78 1.3'W	6	80.68	0101	1076.	636.	0000	8	3308	
OCE	205	2	0101	0000	26	881213	26 3.8'N	78 1.3'W	6	80.68	0101	1076.	100.	0000	8	3332	
OCE	205	2	0103	0000	17	881214	26 4.2'N	78 3.4'W	6	80.68	0103	965.	284.	0000	8	3322	
OCE	205	2	0104	0000	16	881214	26 4.3'N	78 3.7'W	6	80.68	0104	976.	285.	0000	8	3308	
OCE	205	2	0104	0000	26	881214	26 4.3'N	78 3.7'W	6	80.68	0104	976.	103.	0000	8	3702	
ATL	282	1	0019	0000	13	62 8 3	27 4.0'N	70 10.0'W	5	80.70	0019	5482.	113.	0000	13	424941	
AII	108	5	0021	0000	15	81 524	27 4.6'N	71 6.6'W	9	80.71	0017	5584.	784.	0000	10	4861	
AII	108	5	0021	0000	26	81 524	27 4.6'N	71 6.6'W	9	80.71	0017	5584.	58.	0000	10	4861	
AII	108	5	0025	0000	15	81 526	27 31.4'N	73 45.0'W	9	80.73	0021	4555.	0.	0000	15		
AII	108	5	0025	0000	26	81 526	27 31.4'N	73 45.0'W	9	80.73	0021	4555.	158.	0000	15	3433	
AII	108	5	0026	0000	13	81 526	27 32.9'N	73 48.0'W	9	80.73	0001	4672.	225.	0000	15	4339	
AII	108	5	0027	0000	13	81 526	27 29.2'N	73 49.3'W	9	80.73	0002	4669.	545.	0000	15	3437	
AII	108	5	0028	0000	13	81 526	27 22.5'N	73 48.8'W	9	80.73	0003	4672.	578.	0000	15	3467	
AII	108	5	0029	0000	13	81 527	27 58.5'N	73 38.5'W	9	80.73	0004	4940.	392.	0000	15	3427	
AII	108	5	0030	0000	13	81 527	27 54.2'N	74 42.2'W	9	80.74	0005	4941.	440.	0000	15	3327	
AII	108	5	0031	0000	13	81 527	27 56.0'N	74 46.7'W	9	80.74	0006	4961.	481.	0000	15	3437	
CHN	53	1	0001	0000	18	651020	28 49.0'N	70 52.5'W	5	80.80	0001	5246.	43.	0000	10	283900	
CHN	53	1	0002	0000	18	651021	28 53.0'N	70 54.5'W	5	80.80	0002	5246.	66.	0000	10	483900	

MARSDEN SQUARE # 80

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	53	1	0003	0000	18	651021	28 50.0'N	70 54.0'W	5	80.80	0003	5246.	34.	0000	10		284900
CHN	53	1	0004	0000	18	651021	28 44.0'N	70 55.6'W	5	80.80	0004	5246.	26.	0000	10		243900
KNR	102	1	0001	0000	15	83 5 5	28 54.8'N	70 56.7'W	6	80.80	0001	5370.	1152.	0000	10		4811
KNR	102	1	0001	0000	26	83 5 5	28 54.8'N	70 56.7'W	6	80.80	0001	5370.	118.	0000	10		4829
KNR	102	1	0002	0000	15	83 5 6	28 57.4'N	71 6.2'W	6	80.81	0002	5365.	900.	0000	10		3229
KNR	102	1	0002	0000	26	83 5 6	28 57.4'N	71 6.2'W	6	80.81	0002	5365.	61.	0000	10		3229
KNR	31	4	0007	0000	16	73 720	28 17.9'N	72 17.8'W	9	80.82	0007	4935.	4158.	0000	13		413900
KNR	31	4	0009	0000	16	73 723	28 14.7'N	74 26.4'W	9	80.84	0009	4758.	3689.	0000	13		413900
KNR	31	4	0008	0000	16	73 722	28 41.7'N	75 16.0'W	9	80.85	0008	4962.	2946.	0000	13		433100
KNR	31	5	0010	0000	14	73 815	28 36.8'N	75 19.5'W	9	80.85	0010	4967.	99.	0000	13		443900
KNR	31	5	0011	0000	16	73 816	28 38.0'N	75 21.5'W	11	80.85	0011	4967.	2464.	0000	13		433900
KNR	31	5	0012	0000	16	73 819	28 35.6'N	75 27.3'W	9	80.85	0012	4980.	1399.	0000	10		433100
KNR	31	5	0013	0000	14	73 819	28 35.7'N	75 25.5'W	11	80.85	0013	4982.	106.	0000	10		333900
KNR	31	5	0014	0000	14	73 820	28 15.0'N	75 24.5'W	11	80.85	0014	4765.	110.	0000	13		335900
KNR	31	5	0016	0000	18	73 824	28 16.1'N	75 25.3'W	11	80.85	0016	4780.	76.	0000	13		343300
KNR	31	5	0016	0000	18	73 824	28 16.1'N	75 25.3'W	11	80.85	0018	4780.	76.	0000	13		343900
KNR	31	5	0016	0000	18	73 824	28 16.1'N	75 25.3'W	11	80.85	0019	4773.	96.	0000	13		426900
AII	1	1	0005	0000	15	63 228	29 10.0'N	76 22.0'W	5	80.96	0005	4994.	285.	0000	10		373900
ATL	223	1	0001	0000	13	56 5 3	29 31.3'N	79 0.2'W	5	80.99	0001	0.	0.	115G	7		000000

MARSDEN SQUARE # 81

ATL	254	3	0327	0000	15	60 217	20 2.0'N	84 11.0'W	5	81.04	0004	4500.	498.	0000	10		743900
ATL	254	3	0328	0000	26	60 217	20 2.0'N	84 11.0'W	5	81.04	0005	4568.	72.	0000	10		332900
ATL	254	3	0325	0000	15	60 216	21 11.0'N	82 50.0'W	5	81.12	0002	4463.	218.	0000	10		372500
ATL	254	3	0325	0000	26	60 216	21 11.0'N	82 50.0'W	5	81.12	0002	4463.	55.	0000	10		335900
ATL	254	3	0326	0000	15	60 216	21 11.0'N	82 50.0'W	5	81.12	0003	3596.	537.	0000	10		337900
ATL	254	3	0326	0000	26	60 216	21 11.0'N	82 50.0'W	5	81.12	0003	3596.	56.	0000	10		375900
ATL	254	3	0324	0000	15	60 215	21 32.0'N	83 10.0'W	5	81.13	0001	3655.	601.	0000	10		373500

MARSDEN SQUARE #102

AII	15	5	0592	0000	18	65 325	20 50.0'N	61 1.0'E	9	102.01	0592	2628.	97.	0000	6		335900
AII	15	5	0594	0000	15	65 325	20 35.0'N	63 53.0'E	9	102.03	0018	3338.	990.	0000	6		386000
AII	15	5	0586	0000	15	65 321	20 7.0'N	67 55.0'E	9	102.07	0016	3047.	1210.	0000	24		342200
AII	15	5	0586	0000	26	65 321	20 7.0'N	67 55.0'E	9	102.07	0016	3047.	102.	0000	24		333200
AII	15	5	0586	0000	13	65 321	20 7.5'N	67 56.0'E	9	102.07	0586	3049.	87.	0000	24		333200
AII	15	4	0585	0000	13	65 321	20 9.0'N	69 26.0'E	9	102.09	0585	216.	80.	0000	2		335500

MARSDEN SQUARE #103

AII	15	5	0591	0000	13	65 325	21 0.0'N	59 33.0'E	9	103.19	0591	1267.	70.	0000	4		335900
AII	15	5	0590	0000	13	65 324	23 7.0'N	59 22.0'E	9	103.39	0590	1805.	42.	0000	4		335900
AII	93	18	0084	0000	15	77 320	23 55.4'N	59 13.9'E	12	103.39	0062	3314.	926.	0000	10		383000
AII	93	18	0084	0000	26	77 320	23 55.4'N	59 13.9'E	12	103.39	0062	3314.	127.	0000	10		383000
AII	93	18	0082	0000	15	77 315	24 33.2'N	57 33.2'E	12	103.47	0060	1590.	661.	0000	20		337000
AII	93	18	0082	0000	26	77 315	24 33.2'N	57 33.2'E	12	103.47	0060	1590.	65.	0000	20		331000

MARSDEN SQUARE #103

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	93	18	0083	0000	15	77 315	24 24.6'N	57 59.1'E	12	103.47	0061	2658.	651.	0000	20	336200	
AII	93	18	0083	0000	26	77 315	24 24.6'N	57 59.1'E	12	103.47	0061	2658.	70.	0000	20	331000	
AII	15	5	0589	0000	15	65 324	24 2.0'N	59 53.1'E	9	103.49	0017	3341.	742.	0000	6	223000	
AII	15	5	0589	0000	13	65 324	24 2.0'N	59 53.1'E	9	103.49	0589	3341.	82.	0000	6	4[illegible]900	
AII	93	18	0076	0000	13	77 313	25 39.5'N	53 8.8'E	12	103.53	0053	48.	90.	0000	21	301200	
AII	93	18	0076	0000	15	77 313	25 39.5'N	53 8.8'E	12	103.53	0054	48.	30.	0000	21	351000	
AII	93	18	0076	0000	26	77 313	25 39.5'N	53 8.8'E	12	103.53	0054	48.	8.	0000	21	350000	
AII	93	18	0077	0000	15	77 313	25 20.5'N	54 11.5'E	12	103.54	0055	29.	217.	0000	21	851100	
AII	93	18	0080	0000	15	77 314	25 58.7'N	56 43.3'E	12	103.56	0058	103.	260.	0000	21	356100	
AII	93	18	0080	0000	26	77 314	25 58.7'N	56 43.3'E	12	103.56	0058	103.	89.	0000	21	331200	
AII	93	18	0081	0000	15	77 314	25 18.2'N	57 0.7'E	12	103.57	0059	311.	684.	0000	20	331000	
AII	93	18	0081	0000	26	77 314	25 18.2'N	57 0.7'E	12	103.57	0059	311.	73.	0000	20	331000	
AII	93	18	0074	0000	15	77 312	26 57.6'N	52 5.1'E	12	103.62	0050	51.	510.	0000	21	351000	
AII	93	18	0074	0000	13	77 312	26 57.6'N	52 5.1'E	12	103.62	0051	51.	107.	0000	21	331200	
AII	93	18	0075	0000	15	77 312	26 56.8'N	52 42.9'E	12	103.62	0052	78.	306.	0000	21	331000	
AII	93	18	0075	0000	26	77 312	26 56.8'N	52 42.9'E	12	103.62	0052	78.	67.	0000	21	336000	
AII	93	18	0078	0000	15	77 313	26 2.4'N	54 55.4'E	12	103.64	0056	84.	403.	0000	21	000000	
AII	93	18	0078	0000	26	77 313	26 2.4'N	54 55.4'E	12	103.64	0056	84.	36.	0000	21	331100	
AII	93	18	0065	0000	13	77 3 4	26 58.2'N	55 12.9'E	12	103.65	0041	74.	9.	0000	21	00	
AII	93	18	0079	0000	15	77 314	26 26.6'N	56 1.7'E	12	103.66	0057	72.	363.	0000	21	531000	
AII	93	18	0079	0000	26	77 314	26 26.6'N	56 1.7'E	12	103.66	0057	72.	52.	0000	21	331200	
AII	93	18	0072	0000	13	77 311	27 27.3'N	50 27.8'E	12	103.70	0048	61.	76.	0000	21	351000	
AII	93	18	0072	0000	15	77 311	27 26.6'N	50 28.1'E	12	103.70	0048	61.	8.	0000	21	500000	
AII	93	18	0072	0000	26	77 311	27 26.6'N	50 28.1'E	12	103.70	0048	61.	31.	0000	21	351000	
AII	93	18	0073	0000	13	77 311	27 4.6'N	50 56.4'E	12	103.70	0049	63.	71.	0000	21	351000	
AII	93	18	0073	0000	13	77 311	27 4.6'N	50 56.4'E	12	103.70	049A	63.	82.	0000	21	351000	
AII	93	18	0071	0000	15	77 311	28 21.4'N	50 36.6'E	12	103.80	0047	53.	448.	0000	21	838000	
AII	93	18	0071	0000	26	77 311	28 21.4'N	50 36.6'E	12	103.80	0047	53.	28.	0000	21	332000	
AII	93	18	0070	0000	15	77 310	29 3.6'N	50 15.5'E	12	103.90	0046	46.	376.	0000	21	357000	
AII	93	18	0070	0000	26	77 310	29 3.6'N	50 15.5'E	12	103.90	0046	46.	86.	0000	21	351000	

MARSDEN SQUARE #104

AII	15	14	0749	0000	13	65 617	25 55.5'S	43 21.5'E	9	104.53	0749	3802.	136.	0000	6	035200	
AII	93	18	0068	0000	13	77 310	28 49.3'N	49 35.7'E	12	104.89	0044	43.	38.	0000	21	531000	
AII	93	18	0069	0000	15	77 310	29 20.2'N	49 45.3'E	12	104.99	0045	30.	531.	0000	21	333000	
AII	93	18	0069	0000	26	77 310	29 20.2'N	49 45.3'E	12	104.99	0045	30.	105.	0000	21	354200	

MARSDEN SQUARE #105

CHN	61	7	0151	0000	13	6611 3	20 42.0'N	38 15.0'E	1	105.08	0000	2302.	301.	0000	16	434541	
CHN	61	7	0156	0000	18	6611 6	20 59.0'N	38 19.0'E	1	105.08	156A	1748.	50.	0000	21	342900	
CHN	61	7	0156	0000	18	6611 6	20 58.5'N	38 20.5'E	1	105.08	156B	1331.	65.	0000	21	333900	
CHN	100	3	0031	0000	15	71 323	20 51.0'N	38 9.1'E	1	105.08	0023	1827.	24.	0000	16	335700	
CHN	100	3	0031	0000	26	71 323	20 51.0'N	38 9.1'E	1	105.08	0023	1827.	64.	0000	16	335900	
CHN	100	3	0007	0000	15	71 3 7	20 27.7'N	39 13.9'E	9	105.09	0006	646.	636.	0000	2	332800	
CHN	100	3	0023	0000	15	71 313	21 16.6'N	37 59.7'E	1	105.17	0017	1659.	775.	0000	16	332700	
AII	15	3	0541	0000	15	65 218	21 17.0'N	38 2.0'E	9	105.18	0004	2089.	0.	0000	21	000000	

MARSDEN SQUARE #105

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	93	19	0088	0000	15	77 4 3	21 23.5'N	38 3.4'E	9	105.18	0064	2087.	909.	0000	21		00
AII	93	19	0088	0000	26	77 4 3	21 23.5'N	38 3.4'E	9	105.18	0064	2087.	159.	0000	21		00
CHN	61	5	0072	0000	15	661017	21 17.8'N	38 2.8'E	6	105.18	0000	1931.	206.	0000	21	433241	
CHN	61	5	0073	0000	13	661017	21 14.7'N	38 4.7'E	6	105.18	0000	2028.	51.	0000	21	343241	
CHN	61	6	0078	0000	18	661018	21 22.8'N	38 0.5'E	10	105.18	078A	1748.	40.	0000	16	372900	
CHN	61	6	0078	0000	18	661018	21 22.5'N	38 4.0'E	10	105.18	078C	2056.	90.	0000	16	005900	
CHN	61	6	0078	0000	18	661018	21 22.5'N	38 4.7'E	10	105.18	078D	2084.	95.	0000	16	005900	
CHN	61	6	0079	0000	13	661018	21 21.3'N	38 3.6'E	10	105.18	0000	2154.	219.	0000	16	001900	
CHN	61	6	0080	0000	15	661019	21 16.9'N	38 2.0'E	6	105.18	0000	2202.	855.	0000	16	486941	
CHN	61	6	0081	0000	15	661019	21 17.0'N	38 2.1'E	10	105.18	0000	2167.	882.	0000	16	434100	
CHN	61	6	0081	0000	26	661019	21 17.0'N	38 2.1'E	10	105.18	0000	2167.	135.	0000	16	407900	
CHN	61	6	0082	0000	18	661019	21 18.8'N	38 3.8'E	10	105.18	082B	1984.	92.	0000	16	001900	
CHN	61	6	0082	0000	18	661019	21 18.8'N	38 3.5'E	10	105.18	082C	1944.	104.	0000	16	445900	
CHN	61	6	0082	0000	18	661019	21 18.8'N	38 3.2'E	10	105.18	082D	1967.	121.	0000	16	043900	
CHN	61	6	0084	0000	15	661020	21 21.0'N	38 3.8'E	10	105.18	0000	2167.	955.	0000	16	001941	
CHN	61	6	0084	0000	20	661020	21 21.0'N	38 3.8'E	10	105.18	0000	2132.	400.	0000	16	00	
CHN	61	6	0084	0000	26	661020	21 21.0'N	38 3.8'E	10	105.18	0000	2167.	70.	0000	16	005941	
CHN	61	6	0085	0000	20	661020	21 18.8'N	38 3.9'E	1	105.18	0085	1939.	400.	0000	16	00	
CHN	61	6	0089	0000	18	661022	21 23.3'N	38 3.4'E	10	105.18	089B	1917.	90.	0000	16	043200	
CHN	61	6	0089	0000	18	661022	21 22.8'N	38 2.3'E	10	105.18	0000	2107.	121.	0000	16	005900	
CHN	61	6	0094	0000	13	661020	21 20.8'N	38 3.9'E	10	105.18	0000	2171.	255.	0000	16	003941	
CHN	61	6	0095	0000	13	661022	21 23.3'N	38 3.1'E	10	105.18	0000	1940.	200.	0000	16	003941	
CHN	61	6	0095	0000	20	661022	21 23.4'N	38 3.3'E	10	105.18	0000	1882.	305.	0000	16	000000	
CHN	61	6	0096	0000	13	661022	21 26.5'N	38 3.0'E	10	105.18	0000	2048.	54.	0000	16	005941	
CHN	61	6	0106	0000	13	661023	21 21.2'N	38 3.5'E	10	105.18	0000	2167.	84.	0000	16	005941	
CHN	61	6	0107	0000	13	661023	21 21.7'N	38 3.3'E	10	105.18	0000	2153.	78.	0000	16	003941	
CHN	61	6	0108	0000	13	661023	21 22.4'N	38 4.7'E	10	105.18	0000	1889.	197.	0000	16	003941	
CHN	61	6	0109	0000	13	661023	21 24.1'N	38 4.0'E	10	105.18	0000	2078.	260.	0000	16	003941	
CHN	61	6	0111	0000	18	661024	21 21.6'N	38 5.5'E	10	105.18	111D	1966.	122.	0000	16	033900	
CHN	61	6	0111	0000	18	661024	21 21.6'N	38 5.3'E	10	105.18	111C	2017.	122.	0000	16	005900	
CHN	61	6	0118	0000	20	661025	21 14.4'N	38 4.3'E	10	105.18	0118	1959.	400.	0000	16	000000	
CHN	61	6	0120	0000	20	661025	21 22.6'N	38 4.5'E	10	105.18	0120	2028.	400.	0000	16	00	
CHN	61	6	0122	0000	13	661026	21 17.6'N	38 1.5'E	10	105.18	0122	1944.	298.	0000	16	033141	
CHN	61	7	0124	0000	15	661030	21 23.2'N	38 4.3'E	10	105.18	0000	2057.	125.	0000	16	445941	
CHN	61	7	0124	0000	26	661030	21 23.2'N	38 4.3'E	10	105.18	0000	2057.	95.	0000	16	003941	
CHN	61	7	0126	0000	15	661030	21 21.9'N	38 4.4'E	10	105.18	0000	2068.	810.	0000	16	003941	
CHN	61	7	0126	0000	26	661030	21 21.9'N	38 4.4'E	10	105.18	0000	2068.	205.	0000	16	003941	
CHN	61	7	0127	0000	15	661030	21 22.4'N	38 2.9'E	10	105.18	0000	2106.	834.	0000	16	044941	
CHN	61	7	0127	0000	26	661030	21 22.4'N	38 2.9'E	10	105.18	0000	2106.	148.	0000	16	005941	
CHN	61	7	0128	0000	15	661030	21 25.4'N	38 3.4'E	10	105.18	0000	2077.	874.	0000	16	033941	
CHN	61	7	0128	0000	26	661030	21 25.4'N	38 3.4'E	10	105.18	0000	2077.	170.	0000	16	033941	
CHN	61	7	0129	0000	15	661030	21 25.3'N	38 2.9'E	10	105.18	0000	2027.	158.	0000	16	444741	
CHN	61	7	0135	0000	13	6611 1	21 30.0'N	38 16.0'E	10	105.18	0000	752.	23.	0000	16	496941	
CHN	61	7	0136	0000	13	6611 1	21 28.0'N	38 13.0'E	10	105.18	0000	1277.	39.	0000	16	335241	
CHN	61	7	0139	0000	18	6611 1	21 25.7'N	38 2.8'E	10	105.18	139A	1972.	122.	0000	16	044700	
CHN	61	7	0139	0000	18	6611 1	21 25.7'N	38 2.7'E	10	105.18	139B	2007.	122.	0000	16	001700	
CHN	61	7	0143	0000	20	6611 2	21 27.0'N	38 3.0'E	10	105.18	0000	1882.	354.	0000	16	00	
CHN	61	7	0158	0000	13	6611 7	21 17.8'N	38 2.8'E	1	105.18	0000	2209.	162.	0000	21	343941	
CHN	61	7	0159	0000	15	6611 7	21 18.2'N	38 3.5'E	1	105.18	0000	1982.	332.	0000	16	496200	
CHN	61	7	0159	0000	26	6611 7	21 18.2'N	38 3.5'E	1	105.18	0000	1982.	160.	0000	16	033700	

MARSDEN SQUARE #105

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	61	7	0161	0000	20	6611 9	21 18.6'N	38 3.7'E	1	105.18	0000	1920.	324.	0000	16		00
CHN	100	3	0008	0000	15	71 3 9	21 20.8'N	38 6.2'E	10	105.18	0007	2163.	1180.	0000	16		000000
CHN	100	3	0008	0000	26	71 3 9	21 20.8'N	38 6.2'E	10	105.18	0007	2163.	147.	0000	16		000000
CHN	100	3	0010	0000	15	71 3 9	21 24.0'N	38 4.8'E	1	105.18	0009	1931.	1175.	0000	16		000000
CHN	100	3	0010	0000	26	71 3 9	21 24.0'N	38 4.8'E	1	105.18	0009	1931.	153.	0000	16		000000
CHN	100	3	0012	0000	15	71 310	21 22.2'N	38 5.2'E	1	105.18	0010	2048.	346.	0000	16		000045
CHN	100	3	0012	0000	26	71 310	21 22.2'N	38 5.2'E	1	105.18	0010	2048.	150.	0000	16		000045
CHN	100	3	0013	0000	13	71 310	21 25.6'N	38 2.6'E	1	105.18	0011	2088.	133.	0000	16		000045
CHN	100	3	0014	0000	26	71 311	21 25.0'N	38 4.8'E	1	105.18	0012	2035.	153.	0000	16		000000
CHN	100	3	0016	0000	15	71 311	21 18.1'N	38 5.2'E	1	105.18	0013	1838.	209.	0000	16		000000
CHN	100	3	0016	0000	26	71 311	21 18.1'N	38 5.2'E	1	105.18	0013	1838.	86.	0000	16		000000
CHN	100	3	0018	0000	15	71 311	21 24.8'N	38 4.7'E	1	105.18	0014	1926.	565.	0000	16		000000
CHN	100	3	0018	0000	26	71 311	21 24.8'N	38 4.7'E	1	105.18	0014	1926.	153.	0000	16		000000
CHN	100	3	0019	0000	15	71 312	21 21.0'N	38 5.1'E	1	105.18	0015	1869.	140.	0000	16		000000
CHN	100	3	0019	0000	26	71 312	21 21.0'N	38 5.1'E	1	105.18	0015	1869.	125.	0000	16		000000
CHN	100	3	0020	0000	15	71 312	21 19.1'N	38 7.4'E	1	105.18	0016	1880.	485.	0000	16		342100
CHN	100	3	0020	0000	26	71 312	21 19.1'N	38 7.4'E	1	105.18	0016	1880.	152.	0000	16		332700
CHN	100	3	0024	0000	15	71 316	21 21.7'N	38 3.9'E	1	105.18	0018	2128.	905.	0000	16		000000
CHN	100	3	0024	0000	26	71 316	21 21.7'N	38 3.9'E	1	105.18	0018	2128.	153.	0000	16		000000
CHN	100	3	0026	0000	15	71 316	21 22.2'N	38 14.0'E	1	105.18	0019	1390.	739.	0000	15		382700
CHN	100	3	0027	0000	15	71 316	21 22.4'N	38 17.3'E	1	105.18	0020	1026.	508.	0000	15		383800
CHN	100	3	0028	0000	15	71 320	21 18.8'N	38 58.8'E	1	105.18	0021	885.	606.	0000	4		373800
CHN	100	3	0028	0000	26	71 320	21 18.8'N	38 58.8'E	1	105.18	0021	885.	148.	0000	4		373900
CHN	100	3	0030	0000	15	71 322	21 24.0'N	38 11.4'E	1	105.18	0022	1172.	552.	0000	15		333800
CHN	100	3	0030	0000	26	71 322	21 24.0'N	38 11.4'E	1	105.18	0022	1172.	57.	0000	15		332900
CHN	61	7	0165	0000	26	6611 9	22 28.2'N	37 46.5'E	1	105.27	0000	2167.	102.	0000	21		373900
AII	93	19	0090	0000	15	77 4 4	23 11.1'N	37 11.4'E	9	105.37	0065	2233.	413.	0000	16		00
AII	93	19	0090	0000	26	77 4 4	23 11.1'N	37 11.4'E	9	105.37	0065	2233.	120.	0000	16		00
CHN	61	7	0167	0000	15	661110	23 20.0'N	37 20.0'E	1	105.37	0000	827.	757.	0000	21		332941
AII	93	19	0091	0000	15	77 4 5	24 44.1'N	36 17.2'E	9	105.46	0066	1329.	474.	0000	16		00
AII	93	19	0091	0000	26	77 4 5	24 44.1'N	36 17.2'E	9	105.46	0066	1329.	104.	0000	16		00
AII	93	18	0064	0000	13	77 3 3	26 6.4'N	35 43.1'E	12	105.65	0040	80.	0.	0000	21		900000
AII	93	19	0093	0000	15	77 4 9	27 53.1'N	34 30.0'E	9	105.74	0067	1116.	856.	0000	21		334800
AII	93	19	0093	0000	26	77 4 9	27 53.1'N	34 30.0'E	9	105.74	0067	1116.	102.	0000	21		332000
AII	93	19	0094	0000	15	77 410	27 38.4'N	34 28.1'E	9	105.74	0068	1087.	827.	0000	21		336000
AII	93	19	0095	0000	15	77 410	28 7.2'N	34 29.7'E	2	105.84	0069	1228.	506.	0000	21		890100
AII	93	19	0095	0000	26	77 410	28 7.2'N	34 29.7'E	2	105.84	0069	1228.	11.	0000	21		00
AII	93	19	0096	0000	15	77 410	28 32.1'N	34 34.3'E	2	105.84	0070	963.	735.	0000	21		387000
AII	93	19	0096	0000	26	77 410	28 32.1'N	34 34.3'E	2	105.84	0070	963.	90.	0000	21		331000
AII	93	19	0097	0000	15	77 410	28 50.1'N	34 42.5'E	9	105.84	0071	735.	536.	0000	21		337200
AII	93	19	0097	0000	26	77 410	28 50.1'N	34 42.5'E	9	105.84	0071	735.	116.	0000	21		336000
AII	93	19	0101	0000	15	77 413	28 18.2'N	34 31.4'E	9	105.84	0074	884.	729.	0000	21		330200
AII	93	19	0101	0000	26	77 413	28 18.2'N	34 31.4'E	9	105.84	0074	884.	61.	0000	21		331000
AII	93	19	0098	0000	15	77 410	29 11.5'N	34 47.6'E	9	105.94	0072	888.	673.	0000	21		383000
AII	93	19	0099	0000	15	77 410	29 24.0'N	34 53.2'E	9	105.94	0073	858.	683.	0000	21		331000
AII	93	19	0099	0000	26	77 410	29 24.0'N	34 53.2'E	9	105.94	0073	858.	64.	0000	21		331100

MARSDEN SQUARE #109

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CIS	79	1	0001	0000	13	79 921	35 33.3'N	4 46.0'W	9	109.54	0001	478.	76.	0000	2	485900
CIS	79	1	0002	0000	13	79 922	35 33.5'N	4 40.2'W	9	109.54	0002	587.	77.	0000	2	485900
CIS	79	1	0003	0000	13	79 922	35 35.2'N	4 38.7'W	9	109.54	0003	702.	72.	0000	2	485900
KNR	134	16	0000	0000	17	88 823	35 59.4'N	4 23.3'W	1	109.54	0008	1349.	260.	0000	21	3322
KNR	134	16	0000	0000	17	88 824	35 59.0'N	4 25.2'W	9	109.54	0009	1330.	153.	0000	21	3352
KNR	134	16	0000	0000	17	88 823	36 9.3'N	3 15.5'W	9	109.63	0004	878.	104.	0000	21	3322
KNR	134	16	0000	0000	17	88 823	36 9.6'N	3 15.9'W	1	109.63	0005	873.	0.	0000	21	0000
KNR	134	16	0000	0000	17	88 823	36 27.1'N	3 52.8'W	1	109.63	0006	826.	127.	0000	21	3328
KNR	134	16	0000	0000	17	88 823	36 27.2'N	3 52.6'W	1	109.63	0007	826.	267.	0000	21	3880
CHN	82	6	0021	0000	15	68 728	36 9.5'N	7 16.3'W	8	109.67	0001	830.	674.	0000	4	486940
CHN	82	6	0021	0000	26	68 728	36 9.5'N	7 16.3'W	8	109.67	0001	830.	77.	0000	4	486940
KNR	134	16	0000	0000	17	88 822	37 30.3'N	0 0.2'W	1	109.70	0003	2079.	0.	0000	21	0000

MARSDEN SQUARE #110

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	21	1	0014	0000	13	61 915	33 32.0'N	18 11.0'W	1	110.38	0014	3835.	0.	0000	5	000000
CHN	21	1	0015	0000	13	61 916	34 0.0'N	15 51.0'W	1	110.45	0015	3955.	167.	0000	5	335000
CHN	82	6	0022	0000	15	68 731	35 39.0'N	13 42.0'W	5	110.53	0002	4853.	708.	0000	10	383154
CHN	82	6	0022	0000	26	68 731	35 39.0'N	13 42.0'W	5	110.53	0002	4853.	60.	0000	10	383154

MARSDEN SQUARE #111

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	96	4	0008	0000	26	691119	30 31.3'N	20 19.7'W	9	111.00	0008	4818.	55.	0000	6	383954
CHN	7	8	0011	0000	13	59 8 1	30 30.0'N	28 23.0'W	4	111.08	0011	4204.	73.	0000	12	359900
CHN	96	4	0010	0000	15	6912 3	32 36.1'N	21 26.2'W	9	111.21	0010	5129.	840.	0000	6	373147
CHN	96	4	0010	0000	26	6912 3	32 36.1'N	21 26.2'W	9	111.21	0010	5129.	103.	0000	6	433147

MARSDEN SQUARE #112

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
KNR	31	3	0001	0000	16	73 628	36 26.8'N	32 0.1'W	9	112.62	0001	2829.	1083.	0000	15	332400

MARSDEN SQUARE #113

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	96	4	0006	0000	15	691113	30 18.4'N	42 37.8'W	9	113.02	0006	3205.	536.	0000	15	372154
CHN	96	4	0006	0000	26	691113	30 18.4'N	42 37.8'W	9	113.02	0006	3205.	82.	0000	15	332954
CHN	96	5	0013	0000	13	6912 9	30 4.4'N	42 28.9'W	8	113.02	0013	5216.	59.	0000	19	833954
CHN	96	5	0012	0000	15	6912 9	30 15.7'N	43 18.9'W	8	113.03	0012	3955.	517.	0000	19	373954
CHN	96	5	0014	0000	13	691210	30 21.9'N	44 7.2'W	8	113.04	0014	4119.	293.	0000	19	332954
CHN	96	5	0015	0000	13	691210	30 29.9'N	44 50.5'W	8	113.04	0015	4083.	286.	0000	19	373154
CHN	99	2	0002	0000	15	70 423	30 41.0'N	46 27.9'W	8	113.06	0001	4294.	800.	0000	19	332900
CHN	99	2	0004	0000	15	70 424	31 13.5'N	43 43.1'W	8	113.13	0003	3857.	673.	0000	19	332200
CHN	99	2	0003	0000	15	70 423	31 17.7'N	46 13.1'W	8	113.16	0002	4358.	525.	0000	19	332900

MARSDEN SQUARE #114

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	85	2	0004	0000	13	74 920	33 40.7'N	57 36.6'W	9	114.37	0004	4530.	183.	0000	13	332200
AII	85	2	0008	0000	13	74 921	33 54.1'N	57 21.7'W	9	114.37	0008	4630.	198.	0000	13	314800
KNR	31	3	0003	0000	16	73 7 6	33 50.8'N	57 2.4'W	9	114.37	0003	5090.	2996.	0000	13	243900
KNR	31	3	0005	0000	16	73 710	33 41.2'N	57 36.9'W	9	114.37	0005	4583.	3191.	0000	13	443900
KNR	31	3	0006	0000	16	73 711	33 56.9'N	57 21.3'W	9	114.37	0006	4672.	1404.	0000	13	142300
KNR	47	1	0001	0000	15	75 210	33 50.6'N	57 33.1'W	9	114.37	0001	4284.	1155.	0000	13	466000
KNR	47	1	0001	0000	26	75 210	33 50.6'N	57 33.1'W	9	114.37	0001	4284.	122.	0000	13	336900
KNR	47	1	0002	0000	15	75 211	33 40.8'N	57 40.3'W	6	114.37	0002	4619.	1195.	0000	13	466000
KNR	47	1	0002	0000	26	75 211	33 40.8'N	57 40.3'W	6	114.37	0002	4619.	37.	0000	13	333900
KNR	47	1	0004	0000	15	75 215	33 54.8'N	57 23.3'W	6	114.37	0004	4792.	776.	0000	13	134200
KNR	47	1	0004	0000	26	75 215	33 54.8'N	57 23.3'W	6	114.37	0004	4792.	62.	0000	13	335300
KNR	47	1	0005	0000	15	75 216	33 30.6'N	57 49.4'W	6	114.37	0005	4618.	1189.	0000	13	434000
KNR	47	1	0005	0000	26	75 216	33 30.6'N	57 49.4'W	6	114.37	0005	4618.	68.	0000	13	335900
KNR	47	1	0033	0000	13	75 216	34 10.3'N	57 11.5'W	6	114.47	0006	5500.	160.	0000	13	132800

MARSDEN SQUARE #115

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	42	1	0045	0000	15	68 724	30 54.0'N	63 23.0'W	1	115.03	0031	5006.	896.	0000	13	343154
ATL	282	1	0001	0000	13	62 711	30 27.0'N	65 44.0'W	5	115.05	001A	4945.	269.	0000	13	386900
AII	92	1	0004	0000	15	75 9 4	30 16.0'N	66 3.5'W	9	115.06	0001	4915.	775.	0000	13	432753
AII	92	1	0004	0000	26	75 9 4	30 16.0'N	66 3.5'W	9	115.06	0001	4915.	49.	0000	13	335353
AII	92	1	0007	0000	15	75 9 5	30 18.6'N	66 7.5'W	9	115.06	0002	4969.	579.	0000	13	333853
AII	92	1	0007	0000	26	75 9 5	30 18.6'N	66 7.5'W	9	115.06	0002	4969.	19.	0000	13	335953
AII	92	1	0009	0000	15	75 9 7	30 19.8'N	66 6.2'W	9	115.06	0003	4951.	590.	0000	13	334953
AII	92	1	0009	0000	26	75 9 7	30 19.8'N	66 6.2'W	9	115.06	0003	4951.	88.	0000	13	343953
AII	92	1	0017	0000	15	75 910	30 17.7'N	66 5.0'W	9	115.06	0004	4954.	1004.	0000	13	342853
AII	92	1	0017	0000	26	75 910	30 17.7'N	66 5.0'W	9	115.06	0004	4954.	145.	0000	13	332853
CHN	47	1	0034	0000	18	65 5 5	30 30.7'N	66 52.0'W	5	115.06	0003	5096.	100.	0000	13	134900
KNR	102	1	0007	0000	15	83 516	30 59.2'N	66 27.6'W	6	115.06	0007	4920.	973.	0000	10	4329
KNR	102	1	0007	0000	26	83 516	30 59.2'N	66 27.6'W	6	115.06	0007	4920.	144.	0000	10	3389
ATL	282	1	0023	0000	15	62 8 7	30 27.0'N	67 58.0'W	5	115.07	0023	5188.	437.	0000	13	237900
KNR	102	1	0003	0000	15	83 5 7	30 15.9'N	69 35.9'W	6	115.09	0003	5265.	1160.	0000	10	3429
KNR	102	1	0003	0000	26	83 5 7	30 15.9'N	69 35.9'W	6	115.09	0003	5265.	145.	0000	10	3339
KNR	102	1	0004	0000	15	83 510	30 10.3'N	69 46.4'W	6	115.09	0004	5300.	1065.	0000	10	1429
KNR	102	1	0004	0000	26	83 510	30 10.3'N	69 46.4'W	6	115.09	0004	5300.	145.	0000	10	1469
CHN	19	1	0001	0000	15	61 618	31 50.0'N	64 45.0'W	1	115.14	0001	4149.	415.	0000	13	373500
KNR	102	1	0009	0000	15	83 519	31 31.7'N	65 40.8'W	6	115.15	0009	4708.	1030.	0000	10	3432
KNR	102	1	0009	0000	26	83 519	31 31.7'N	65 40.8'W	6	115.15	0009	4708.	97.	0000	10	3332
KNR	102	1	0010	0000	15	83 521	31 31.9'N	65 27.9'W	6	115.15	0010	4655.	1151.	0000	10	3322
KNR	102	1	0010	0000	26	83 521	31 31.9'N	65 27.9'W	6	115.15	0010	4655.	127.	0000	10	3329
KNR	102	1	0008	0000	15	83 517	31 3.9'N	66 31.4'W	6	115.16	0008	4925.	1036.	0000	10	3422
KNR	102	1	0008	0000	26	83 517	31 3.9'N	66 31.4'W	6	115.16	0008	4925.	133.	0000	10	3329
KNR	102	1	0005	0000	15	83 512	31 6.8'N	68 6.5'W	6	115.18	0005	5125.	1091.	0000	10	4329
KNR	102	1	0005	0000	26	83 512	31 6.8'N	68 6.5'W	6	115.18	0005	5125.	129.	0000	10	3429
KNR	102	1	0006	0000	15	83 514	31 9.9'N	68 2.2'W	6	115.18	0006	5110.	1157.	0000	10	3429
KNR	102	1	0006	0000	26	83 514	31 9.9'N	68 2.2'W	6	115.18	0006	5110.	127.	0000	10	3429
KNR	102	1	0011	0000	15	83 522	32 22.0'N	63 40.0'W	6	115.23	0011	4440.	1139.	0000	10	3329
KNR	102	1	0011	0000	26	83 522	32 22.0'N	63 40.0'W	6	115.23	0011	4440.	129.	0000	10	3322
KNR	102	1	0012	0000	15	83 525	32 22.1'N	63 46.9'W	6	115.23	0012	4405.	1033.	0000	10	3731

MARSDEN SQUARE #115

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
KNR	102	1	0012	0000	26	83 525	32 22.1'N	63 46.9'W	6	115.23	0012	4405.	5.	0000	10	3732
LLN	39	1	0001	0000	16	76 816	32 34.8'N	63 55.6'W	9	115.23	0001	4261.	949.	0000	10	337200
KNR	102	1	0013	0000	15	83 527	33 42.5'N	67 26.0'W	6	115.37	0013	5130.	953.	0000	10	1329
KNR	102	1	0013	0000	26	83 527	33 42.5'N	67 26.0'W	6	115.37	0013	5130.	137.	0000	10	1339
KNR	102	1	0014	0000	15	83 528	33 32.5'N	67 24.0'W	6	115.37	0014	5085.	1139.	0000	10	4329
KNR	102	1	0014	0000	26	83 528	33 32.5'N	67 24.0'W	6	115.37	0014	5085.	112.	0000	10	4329
CHN	13	1	0001	0000	15	60 710	34 28.0'N	62 13.0'W	5	115.42	0001	4956.	579.	0000	13	312900
CHN	47	1	0004	0000	18	65 423	34 53.3'N	66 42.0'W	5	115.46	0001	5151.	111.	0000	13	327900
CHN	13	1	0002	0000	15	60 711	35 32.0'N	61 8.0'W	5	115.51	0002	4821.	882.	0000	13	333200
AII	96	1	0003	0000	15	77 921	35 40.6'N	65 48.7'W	9	115.55	0004	4826.	98.	0000	13	
AII	1	1	0009	0000	15	63 328	36 34.5'N	67 30.5'W	5	115.67	0009	4979.	26.	0000	10	445900
ATL	297	1	6375	0000	13	63 819	36 50.5'N	69 36.0'W	5	115.69	0005	4396.	58.	0000	6	445900
ATL	297	1	6377	0000	13	63 819	36 47.0'N	69 53.0'W	5	115.69	0006	4401.	60.	0000	6	445900
ATL	296	0	0002	0000	13	63 8 6	37 53.0'N	63 22.0'W	5	115.73	0002	5043.	46.	0000	12	383941
ATL	297	1	6380	0000	13	63 823	37 25.0'N	69 28.0'W	5	115.79	0007	4270.	39.	0000	6	335900
ATL	297	1	6381	0000	13	63 824	37 41.0'N	69 33.5'W	5	115.79	0008	4110.	117.	0000	6	335900
ATL	296	0	0001	0000	13	63 8 5	38 44.5'N	63 34.0'W	5	115.83	0001	5043.	63.	0000	12	833941
KNR	74	1	0008	0000	14	79 912	39 8.0'N	62 44.0'W	6	115.92	0008	5022.	54.	0000	6	3769
KNR	74	1	0044	0000	14	791029	39 48.7'N	62 47.1'W	6	115.92	0044	4958.	63.	8694	0	0006
ATL	296	0	0006	0000	13	63 810	39 33.0'N	66 17.0'W	5	115.93	0006	4340.	187.	0000	12	133941
KNR	74	1	0007	0000	14	79 912	39 52.5'N	63 30.3'W	6	115.93	0007	4909.	26.	0000	6	376300
KNR	74	1	0051	0000	14	7910 1	39 34.9'N	63 28.1'W	6	115.93	0051	4951.	27.	0000	6	3869
KNR	74	1	0052	0000	14	7910 2	39 52.4'N	63 45.6'W	6	115.93	0052	4878.	13.	0000	6	3869
KNR	74	1	0031	0000	14	79 923	39 31.2'N	64 12.8'W	6	115.94	0031	4887.	52.	0000	6	3869
KNR	74	1	0032	0000	14	79 924	39 47.6'N	64 30.5'W	6	115.94	0032	4785.	37.	0000	6	3869
ATL	296	0	0004	0000	13	63 8 9	39 32.0'N	65 49.5'W	5	115.95	0004	4345.	145.	0000	12	422941
ATL	296	0	0005	0000	13	63 8 9	39 9.0'N	65 54.0'W	5	115.95	0005	4616.	197.	0000	12	423941
ATL	296	0	0007	0000	13	63 810	39 47.0'N	65 13.5'W	5	115.95	0007	4481.	227.	0000	12	283941
ATL	296	0	0008	0000	13	63 811	39 26.5'N	65 9.0'W	5	115.95	0008	4773.	112.	0000	12	283941
ATL	296	0	0009	0000	13	63 811	39 46.0'N	66 28.0'W	5	115.96	0009	3940.	180.	0000	12	283941
CHN	115	1	0001	0000	15	731121	39 20.3'N	67 7.7'W	6	115.97	0001	2472.	461.	0000	12	422400
CHN	115	1	0001	0000	26	731121	39 20.3'N	67 7.7'W	6	115.97	0001	2472.	138.	0000	12	443000
CHN	115	1	0002	0000	15	731121	39 20.6'N	67 8.0'W	6	115.97	0002	2415.	785.	0000	12	233400
CHN	115	1	0002	0000	26	731121	39 20.6'N	67 8.0'W	6	115.97	0002	2415.	88.	0000	12	433400
CHN	115	1	0003	0000	15	731121	39 20.1'N	67 7.9'W	6	115.97	0003	2518.	645.	0000	12	486447
CHN	115	1	0003	0000	26	731121	39 20.1'N	67 7.9'W	6	115.97	0003	2518.	131.	0000	12	484447
CHN	115	1	0004	0000	15	731121	39 20.1'N	67 8.1'W	6	115.97	0004	2536.	213.	0000	12	484400
CHN	115	1	0004	0000	26	731121	39 20.1'N	67 8.1'W	6	115.97	0004	2536.	137.	0000	12	123400
KNR	31	5	0017	0000	18	73 9 2	39 25.1'N	67 1.3'W	11	115.97	0022	4039.	51.	0000	12	025900
KNR	31	5	0017	0000	18	73 9 2	39 25.1'N	67 1.4'W	11	115.97	0023	4026.	98.	0000	12	202900
KNR	31	5	0018	0000	17	73 9 2	39 24.3'N	67 4.1'W	11	115.97	0024	3929.	149.	0000	12	246400
KNR	31	5	0019	0000	18	73 9 2	39 21.6'N	67 5.2'W	11	115.97	0025	2515.	85.	0000	12	481400
KNR	31	5	0020	0000	17	73 9 2	39 20.5'N	67 6.5'W	9	115.97	0026	2726.	224.	0000	12	434300
GOS	102	0	0001	0000	15	67 822	39 35.0'N	68 46.5'W	5	115.98	0001	2562.	272.	0029	6	000000
GOS	102	0	0002	0000	15	67 822	39 53.3'N	68 51.8'W	5	115.98	0002	1951.	525.	0011	6	000000
GOS	137	0	2755	0000	13	681018	39 51.5'N	69 9.8'W	5	115.99	0001	1501.	236.	0000	6	000000
GOS	137	0	2756	0000	13	681018	39 51.5'N	69 9.8'W	5	115.99	0002	1473.	187.	0000	6	000000

MARSDEN SQUARE #116

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	1	1	0003	0000	15	63 226	30 56.0'N	74 36.0'W	5	116.04	0003	3539.	177.	0000	10	445000
AII	1	1	0002	0000	15	63 225	31 15.0'N	73 58.0'W	5	116.13	0002	5070.	211.	0000	10	425000
ATL	223	1	0004	0000	13	56 528	31 26.1'N	76 26.6'W	5	116.16	0004	0.	0.	340G	7	000000
AII	72	1	0019	0000	15	721028	32 32.0'N	73 29.8'W	9	116.23	0016	5058.	850.	0000	4	423140
AII	72	1	0019	0000	26	721028	32 32.0'N	73 29.8'W	9	116.23	0016	5058.	96.	0000	4	233140
AII	72	1	0020	0000	15	721028	32 51.7'N	73 58.8'W	9	116.23	0017	4808.	657.	0000	4	483940
AII	1	1	0001	0000	15	63 225	32 2.0'N	74 9.0'W	5	116.24	0001	4870.	222.	0000	10	425000
CHN	11	1	0013	0000	15	60 320	33 0.0'N	72 15.0'W	4	116.32	0013	5302.	610.	0000	10	383100
AII	72	1	0027	0000	15	721031	33 26.9'N	74 53.5'W	9	116.34	0024	3824.	787.	0000	6	322140
AII	72	1	0027	0000	26	721031	33 26.9'N	74 53.5'W	9	116.34	0024	3824.	52.	0000	6	386940
AII	72	1	0029	0000	14	721031	33 7.3'N	74 27.8'W	5	116.34	0025	4307.	161.	0000	6	445940
AII	72	1	0026	0000	15	721030	33 49.5'N	75 18.0'W	5	116.35	0023	3204.	863.	0000	6	032540
AII	72	1	0026	0000	26	721030	33 49.5'N	75 18.0'W	5	116.35	0023	3204.	118.	0000	6	334940
AII	72	1	0030	A000	18	7211 3	34 13.8'N	71 54.5'W	5	116.41	026A	4734.	99.	0000	6	332900
AII	72	1	0030	B000	18	7211 3	34 14.5'N	71 54.0'W	5	116.41	026B	4730.	53.	0000	6	332900
AII	72	1	0030	C000	18	7211 3	34 16.0'N	71 53.8'W	5	116.41	026C	4697.	62.	0000	6	432900
AII	72	1	0031	0000	14	7211 4	34 15.0'N	71 51.5'W	5	116.41	0027	4717.	96.	0000	6	444940
AII	72	1	0021	0000	15	721029	34 10.5'N	75 51.6'W	9	116.45	0018	481.	812.	0000	4	385540
AII	72	1	0021	0000	26	721029	34 10.5'N	75 51.6'W	9	116.45	0018	481.	10.	0000	4	386540
AII	72	1	0022	0000	15	721029	34 13.0'N	75 42.0'W	9	116.45	0019	1331.	38.	0000	4	386540
AII	72	1	0022	0000	26	721029	34 13.0'N	75 42.0'W	9	116.45	0019	1331.	10.	0000	4	356740
AII	72	1	0023	0000	15	721029	34 2.2'N	75 39.3'W	5	116.45	0020	2189.	832.	0000	4	432940
AII	72	1	0023	0000	26	721029	34 2.2'N	75 39.3'W	5	116.45	0020	2189.	115.	0000	4	335540
AII	72	1	0024	0000	15	721029	34 3.2'N	75 40.0'W	5	116.45	0021	2202.	198.	0000	4	432440
AII	72	1	0025	0000	13	721030	34 1.0'N	75 37.0'W	5	116.45	0022	2942.	124.	0000	4	002500
ATL	297	1	6369	0000	13	63 818	36 40.0'N	70 11.0'W	5	116.60	0001	4418.	111.	0000	6	383900
AII	1	1	0008	0000	15	63 3 3	37 10.0'N	70 13.0'W	5	116.70	0008	4291.	80.	0000	10	386000
ATL	297	1	6371	0000	13	63 818	37 10.0'N	70 25.0'W	5	116.70	0002	4261.	40.	0000	6	445900
ATL	297	1	6372	0000	13	63 818	37 15.5'N	70 7.0'W	5	116.70	0003	4243.	21.	0000	6	335900
AII	72	1	0002	0000	15	721021	39 58.5'N	70 34.5'W	5	116.90	0002	298.	345.	0000	4	284840
AII	72	1	0003	0000	15	721021	39 49.9'N	70 34.3'W	9	116.90	0003	856.	824.	0000	4	284900
AII	72	1	0003	0000	26	721021	39 49.9'N	70 34.3'W	9	116.90	0003	856.	99.	0000	4	284900
AII	72	1	0004	0000	15	721021	39 43.6'N	70 32.7'W	9	116.90	0004	1937.	637.	0000	4	243000
AII	72	1	0004	0000	26	721021	39 43.6'N	70 32.7'W	9	116.90	0004	1937.	20.	0000	4	386900
AII	72	1	0005	0000	15	721021	39 39.8'N	70 33.6'W	5	116.90	0005	2105.	710.	0000	4	223900
AII	72	1	0005	0000	26	721021	39 39.8'N	70 33.6'W	5	116.90	0005	2105.	16.	0000	4	386900
AII	72	1	0008	0000	15	721022	39 49.5'N	70 59.8'W	9	116.90	0007	1002.	235.	0000	4	343940
AII	72	1	0008	0000	26	721022	39 49.5'N	70 59.8'W	9	116.90	0007	1002.	49.	0000	4	342940
AII	72	1	0009	0000	15	721022	39 37.6'N	70 59.7'W	9	116.90	0008	397.	693.	0000	4	222540
AII	72	1	0009	0000	26	721022	39 37.6'N	70 59.7'W	9	116.90	0008	397.	139.	0000	4	222540
AII	72	1	0013	0000	15	721023	39 55.5'N	70 43.3'W	9	116.90	0011	667.	482.	0000	4	283840
AII	72	1	0013	0000	26	721023	39 55.5'N	70 43.3'W	9	116.90	0011	667.	103.	0000	4	243940
AII	72	1	0014	0000	15	721023	39 48.9'N	70 43.5'W	5	116.90	0012	1249.	320.	0000	4	225940
AII	72	1	0014	0000	26	721023	39 48.9'N	70 43.5'W	5	116.90	0012	1249.	124.	0000	4	225540
AII	72	1	0015	0000	15	721023	39 41.0'N	70 45.7'W	5	116.90	0013	2218.	467.	0000	4	232940
AII	72	1	0015	0000	26	721023	39 41.0'N	70 45.7'W	5	116.90	0013	2218.	35.	0000	4	386940
AII	72	1	0016	0000	15	721026	39 28.1'N	70 45.6'W	9	116.90	0014	2478.	776.	0000	4	233900
AII	72	1	0016	0000	26	721026	39 28.1'N	70 45.6'W	9	116.90	0014	2478.	99.	0000	4	386900
AII	72	1	0017	0000	15	721026	39 43.5'N	70 47.1'W	9	116.90	0015	1331.	565.	0000	4	232540
ALB	18	4	0008	3057	13	681211	39 54.8'N	70 48.0'W	5	116.90	0008	552.	161.	0000	4	000000

MARSDEN SQUARE #116

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
ALB	18	4	0009	3058	13	681211	39 56.5'N	70 50.0'W	5	116.90	0009	595.	164.	0000	4	000000	
ALB	18	4	0010	3059	13	681211	39 59.5'N	70 51.0'W	5	116.90	0010	260.	170.	0000	4	000000	
AII	72	1	0007	0000	15	721021	39 40.6'N	71 0.3'W	9	116.91	0006	2008.	612.	0000	4	423940	
AII	72	1	0007	0000	26	721021	39 40.6'N	71 0.3'W	9	116.91	0006	2008.	90.	0000	4	386940	
ALB	18	4	0007	3056	13	681211	39 55.3'N	71 5.5'W	5	116.91	0007	556.	202.	0000	4	000000	

MARSDEN SQUARE #124

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
LLN	44	1	0003	0000	16	761011	30 19.9'N	157 49.4'W	9	124.07	0003	5706.	3217.	0000	10	117000	

MARSDEN SQUARE #141

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	119	2	0083	0000	15	75 4 1	30 34.9'N	31 16.3'E	9	141.01	0021	1529.	911.	0000	24	381800	
CHN	119	2	0083	0000	26	75 4 1	30 34.9'N	31 16.3'E	9	141.01	0021	1529.	66.	0000	24	333800	
AII	15	3	0522	0000	13	65 214	30 20.0'N	32 25.0'E	0	141.02	0BL1	10.	100.	0000	99	447000	
AII	15	3	0522	0000	13	65 214	30 20.0'N	32 25.0'E	0	141.02	0BL2	10.	0.	0000	99	447000	
AII	15	3	0522	0000	13	65 214	30 20.0'N	32 25.0'E	0	141.02	0BL3	10.	115.	0000	99	447000	
CHN	119	2	0036	0000	13	75 328	31 30.9'N	30 18.8'E	3	141.10	0002	6.	60.	0000	24	643100	
CHN	119	2	0055	0000	13	75 328	31 32.6'N	30 15.5'E	3	141.10	0003	11.	86.	0000	24	225900	
CHN	119	2	0061	0000	15	75 329	31 40.8'N	30 1.4'E	9	141.10	0010	431.	615.	0000	25	421900	
CHN	119	2	0061	0000	26	75 329	31 40.8'N	30 1.4'E	9	141.10	0010	431.	120.	0000	25	421200	
CHN	119	2	0185	0000	20	75 410	31 36.9'N	30 16.6'E	3	141.10	0004	21.	267.	0000	24	281900	
CHN	119	2	0087	0000	13	75 4 2	31 46.0'N	31 5.3'E	1	141.11	0004	35.	70.	0000	24	246500	
CHN	119	2	0109	0000	13	75 4 3	31 43.8'N	31 4.3'E	1	141.11	0005	21.	97.	0000	24	246900	
CHN	119	2	0156	0000	13	75 4 9	31 46.1'N	31 47.2'E	1	141.11	0009	48.	137.	0000	24	426500	
CHN	119	2	0166	0000	13	75 4 9	31 45.3'N	31 34.8'E	1	141.11	0010	44.	20.	0000	24	346500	
CHN	119	2	0145	0000	20	75 4 8	31 51.3'N	32 32.8'E	9	141.12	0001	306.	271.	0000	4	446500	
CHN	119	2	0154	0000	13	75 4 9	31 45.5'N	32 1.1'E	1	141.12	0008	48.	132.	0000	24	426900	
CHN	119	2	0183	0000	20	75 410	32 8.2'N	30 58.0'E	9	141.20	0003	508.	253.	0000	24	433200	
CHN	61	4	0056	0000	15	66 923	32 59.8'N	31 5.9'E	6	141.21	0000	2140.	589.	0000	21	354941	
CHN	61	4	0056	0000	26	66 923	32 59.8'N	31 5.9'E	6	141.21	0000	2140.	117.	0000	21	334241	
CHN	119	2	0115	0000	15	75 4 4	32 46.0'N	31 53.3'E	9	141.21	0022	1581.	931.	0000	24	344200	
CHN	119	2	0115	0000	26	75 4 4	32 46.0'N	31 53.3'E	9	141.21	0022	1581.	113.	0000	24	343200	
CHN	119	2	0161	0000	20	75 4 9	32 3.7'N	31 57.6'E	1	141.21	0002	505.	256.	0000	24	443900	
CHN	119	2	0139	0000	15	75 4 7	32 50.1'N	32 59.3'E	9	141.22	0032	1381.	880.	0000	7	343200	
CHN	119	2	0139	0000	26	75 4 7	32 50.1'N	32 59.3'E	9	141.22	0032	1381.	93.	0000	7	333800	
CHN	119	2	0141	0000	15	75 4 7	32 32.6'N	32 17.2'E	9	141.22	0033	1149.	904.	0000	24	333800	
CHN	119	2	0141	0000	26	75 4 7	32 32.6'N	32 17.2'E	9	141.22	0033	1149.	84.	0000	24	334800	
CHN	119	2	0137	0000	15	75 4 7	32 56.2'N	33 45.0'E	1	141.23	0031	1637.	637.	0000	7	381800	
CHN	119	2	0137	0000	26	75 4 7	32 56.2'N	33 45.0'E	1	141.23	0031	1637.	97.	0000	7	333200	
CHN	119	2	0143	0000	15	75 4 8	32 17.3'N	33 24.9'E	9	141.23	0034	1108.	842.	0000	7	426800	
CHN	119	2	0143	0000	26	75 4 8	32 17.3'N	33 24.9'E	9	141.23	0034	1108.	51.	0000	7	332300	
CHN	119	2	0074	0000	15	75 331	33 14.8'N	30 19.9'E	9	141.30	0016	2523.	1012.	0000	24	342800	
CHN	119	2	0074	0000	26	75 331	33 14.8'N	30 19.9'E	9	141.30	0016	2523.	119.	0000	24	333300	
CHN	119	2	0076	0000	15	75 331	33 42.8'N	30 40.9'E	9	141.30	0017	2595.	895.	0000	24	341600	
CHN	119	2	0076	0000	26	75 331	33 42.8'N	30 40.9'E	9	141.30	0017	2595.	106.	0000	24	393900	
CHN	119	2	0080	0000	15	75 4 1	33 48.8'N	31 14.5'E	9	141.31	0019	2501.	833.	0000	24	343800	
CHN	119	2	0080	0000	26	75 4 1	33 48.8'N	31 14.5'E	9	141.31	0019	2501.	101.	0000	24	393800	

MARSDEN SQUARE #141

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	119	2	0082	0000	15	75 4 1	33 13.9'N	31 30.0'E	9	141.31	0020	2042.	890.	0000	24	323800	
CHN	119	2	0082	0000	26	75 4 1	33 13.9'N	31 30.0'E	9	141.31	0020	2042.	69.	0000	24	333800	
CHN	119	2	0116	0000	15	75 4 4	33 30.5'N	31 52.6'E	9	141.31	0023	2142.	322.	0000	24	334800	
CHN	119	2	0116	0000	26	75 4 4	33 30.5'N	31 52.6'E	9	141.31	0023	2142.	70.	0000	24	333800	
CHN	119	2	0118	0000	15	75 4 4	33 51.6'N	31 52.4'E	9	141.31	0024	2636.	711.	0000	11	483800	
CHN	119	2	0118	0000	26	75 4 4	33 51.6'N	31 52.4'E	9	141.31	0024	2636.	76.	0000	11	483300	
CHN	61	4	0057	0000	15	66 924	33 11.1'N	32 29.5'E	6	141.32	0000	1928.	620.	0000	21	396941	
CHN	61	4	0057	0000	26	66 924	33 11.1'N	32 29.5'E	6	141.32	0000	1928.	47.	0000	21	433941	
CHN	61	4	0058	0000	15	66 925	33 30.4'N	32 46.2'E	6	141.32	0000	835.	553.	0000	21	333941	
CHN	61	4	0058	0000	26	66 925	33 30.4'N	32 46.2'E	6	141.32	0000	835.	36.	0000	21	393041	
CHN	119	2	0120	0000	15	75 4 4	33 56.2'N	32 44.7'E	9	141.32	0025	1827.	456.	0000	12	333800	
CHN	119	2	0120	0000	26	75 4 4	33 56.2'N	32 44.7'E	9	141.32	0025	1827.	94.	0000	12	393300	
CHN	119	2	0121	0000	15	75 4 5	33 44.3'N	32 46.5'E	9	141.32	0026	898.	506.	0000	12	334300	
CHN	119	2	0121	0000	26	75 4 5	33 44.3'N	32 46.5'E	9	141.32	0026	898.	77.	0000	12	332200	
CHN	119	2	0122	0000	13	75 4 5	33 45.7'N	32 48.0'E	9	141.32	0006	892.	46.	0000	12	333200	
CHN	119	2	0127	0000	13	75 4 5	33 40.7'N	32 40.9'E	9	141.32	0007	882.	43.	0000	12	333200	
CHN	61	4	0059	0000	15	66 926	33 52.1'N	33 17.2'E	6	141.33	0000	2328.	593.	0000	21	342641	
CHN	61	4	0059	0000	26	66 926	33 52.1'N	33 17.2'E	6	141.33	0000	2328.	136.	0000	21	342641	
CHN	119	2	0129	0000	15	75 4 5	33 21.5'N	33 16.0'E	1	141.33	0027	1829.	698.	0000	7	333800	
CHN	119	2	0129	0000	26	75 4 5	33 21.5'N	33 16.0'E	1	141.33	0027	1829.	76.	0000	7	332800	
CHN	119	2	0131	0000	15	75 4 6	33 58.8'N	33 37.2'E	6	141.33	0028	2220.	700.	0000	10	433800	
CHN	119	2	0131	0000	26	75 4 6	33 58.8'N	33 37.2'E	6	141.33	0028	2220.	142.	0000	10	433900	
CHN	119	2	0135	0000	15	75 4 7	33 35.8'N	34 1.2'E	9	141.34	0030	2013.	652.	0000	10	381900	
CHN	119	2	0135	0000	26	75 4 7	33 35.8'N	34 1.2'E	9	141.34	0030	2013.	111.	0000	10	381900	
CHN	119	2	0078	0000	15	75 4 1	34 20.8'N	30 55.8'E	9	141.40	0018	2484.	858.	0000	13	343800	
CHN	119	2	0078	0000	26	75 4 1	34 20.8'N	30 55.8'E	9	141.40	0018	2484.	90.	0000	13	393800	
CHN	61	4	0055	0000	15	66 922	34 49.2'N	31 4.4'E	6	141.41	0000	2468.	510.	0000	21	393641	
CHN	61	4	0055	0000	26	66 922	34 49.2'N	31 4.4'E	6	141.41	0000	2468.	119.	0000	21	342641	
CHN	61	4	0067	0000	15	6610 3	34 10.0'N	33 36.0'E	6	141.43	0000	2188.	600.	0000	21	433241	
CHN	61	4	0067	0000	26	6610 3	34 10.0'N	33 36.0'E	6	141.43	0000	2188.	119.	0000	21	433241	
CHN	61	4	0066	0000	15	6610 2	34 20.5'N	34 41.0'E	6	141.44	0000	2010.	594.	0000	21	332941	
CHN	61	4	0068	0000	15	6610 4	34 52.7'N	34 52.8'E	6	141.44	0000	1618.	819.	0000	21	345041	
CHN	61	4	0068	0000	26	6610 4	34 52.7'N	34 52.8'E	6	141.44	0000	1618.	104.	0000	21	393241	
CHN	61	4	0066	0000	26	6610 2	34 20.5'N	34 41.0'E	6	141.44	0000	2010.	40.	0000	21	337941	
CHN	119	2	0133	0000	15	75 4 6	34 9.1'N	34 23.0'E	9	141.44	0029	2073.	1294.	0000	10	373800	
CHN	119	2	0133	0000	26	75 4 6	34 9.1'N	34 23.0'E	9	141.44	0029	2073.	141.	0000	10	373100	
CHN	61	4	0054	0000	15	66 921	35 20.1'N	30 7.0'E	6	141.50	0000	2013.	187.	0000	21	334941	
CHN	61	4	0054	0000	26	66 921	35 20.1'N	30 7.0'E	6	141.50	0000	2013.	54.	0000	21	334941	
CHN	61	4	0063	0000	15	66 928	35 42.0'N	32 58.8'E	6	141.52	0000	1250.	610.	0000	21	337941	
CHN	61	4	0063	0000	26	66 928	35 42.0'N	32 58.8'E	6	141.52	0000	1250.	110.	0000	21	332941	
CHN	61	4	0064	0000	15	66 930	35 56.0'N	34 15.0'E	6	141.54	0000	959.	495.	0000	21	386141	
CHN	61	4	0064	0000	26	66 930	35 56.0'N	34 15.0'E	6	141.54	0000	959.	50.	0000	21	334941	
CHN	61	4	0065	0000	15	6610 1	35 33.2'N	35 26.8'E	6	141.55	0000	1398.	645.	0000	21	393141	
CHN	61	4	0065	0000	26	6610 1	35 33.2'N	35 26.8'E	6	141.55	0000	1398.	34.	0000	21	442941	
CHN	61	4	0062	0000	15	66 928	36 1.5'N	31 46.5'E	6	141.61	0000	2506.	297.	0000	21	332941	
CHN	61	4	0062	0000	26	66 928	36 1.5'N	31 46.5'E	6	141.61	0000	2506.	45.	0000	21	333941	

MARSDEN SQUARE #142

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	119	2	0027	0000	15	75 327	31 49.8'N	27 43.9'E	1	142.17	0008	2738.	469.	0000	10	334900	
CHN	119	2	0027	0000	26	75 327	31 49.8'N	27 43.9'E	1	142.17	0008	2738.	82.	0000	10	332600	
CHN	119	2	0011	0000	15	75 323	31 39.2'N	28 49.2'E	9	142.18	0002	1827.	821.	0000	4	386900	
CHN	119	2	0028	0000	15	75 327	31 19.0'N	28 11.0'E	1	142.18	0009	891.	711.	0000	4	334900	
CHN	119	2	0028	0000	26	75 327	31 19.0'N	28 11.0'E	1	142.18	0009	891.	69.	0000	4	333900	
CHN	119	2	0010	0000	15	75 323	31 11.1'N	29 16.7'E	9	142.19	0001	552.	674.	0000	2	433900	
CHN	119	2	0062	0000	15	75 329	31 52.9'N	29 38.1'E	9	142.19	0011	1366.	925.	0000	24	481600	
CHN	119	2	0062	0000	26	75 329	31 52.9'N	29 38.1'E	9	142.19	0011	1366.	84.	0000	24	342800	
CHN	119	2	0187	0000	20	75 411	31 16.0'N	29 44.9'E	3	142.19	0005	60.	108.	0000	24	335500	
CHN	119	2	0187	0000	13	75 411	31 16.0'N	29 44.9'E	3	142.19	0012	60.	96.	0000	24	335500	
CHN	61	3	0043	0000	15	66 9 5	32 33.2'N	25 15.2'E	6	142.25	0000	2888.	290.	0000	21	334941	
CHN	119	2	0025	0000	15	75 326	32 20.3'N	26 56.7'E	1	142.26	0007	3196.	723.	0000	10	313900	
CHN	119	2	0015	0000	15	75 324	32 47.1'N	27 48.4'E	1	142.27	0004	3130.	532.	0000	10	373900	
CHN	119	2	0015	0000	26	75 324	32 47.1'N	27 48.4'E	1	142.27	0004	3130.	106.	0000	10	393800	
CHN	119	2	0013	0000	15	75 324	32 7.8'N	28 24.7'E	9	142.28	0003	2778.	573.	0000	6	383900	
CHN	119	2	0013	0000	26	75 324	32 7.8'N	28 24.7'E	9	142.28	0003	2778.	141.	0000	6	333800	
CHN	119	2	0068	0000	15	75 330	32 49.0'N	28 43.7'E	1	142.28	0013	2889.	536.	0000	10	843900	
CHN	119	2	0068	0000	26	75 330	32 49.0'N	28 43.7'E	1	142.28	0013	2889.	88.	0000	10	326600	
CHN	119	2	0064	0000	15	75 329	32 22.8'N	29 13.5'E	1	142.29	0012	2289.	414.	0000	24	323100	
CHN	119	2	0064	0000	26	75 329	32 22.8'N	29 13.5'E	1	142.29	0012	2289.	40.	0000	24	333900	
CHN	61	3	0040	0000	15	66 831	33 17.2'N	23 9.7'E	6	142.33	0000	2472.	613.	0000	21	381841	
KNR	134	7	0000	0000	17	88 4 8	33 24.9'N	25 0.6'E	6	142.35	0012	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 8	33 26.0'N	25 2.7'E	6	142.35	0013	2400.	40.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 8	33 26.3'N	25 4.2'E	6	142.35	0014	2400.	80.	0000	21	3308	
CHN	119	2	0022	0000	15	75 325	33 15.8'N	26 0.9'E	9	142.36	0006	2372.	697.	0000	13	393800	
CHN	119	2	0022	0000	26	75 325	33 15.8'N	26 0.9'E	9	142.36	0006	2372.	124.	0000	13	393200	
CHN	61	3	0045	0000	15	66 9 7	33 14.7'N	27 51.9'E	6	142.37	0000	3038.	435.	0000	21	449541	
CHN	119	2	0017	0000	15	75 325	33 10.7'N	27 5.2'E	9	142.37	0005	2698.	373.	0000	13	334900	
CHN	119	2	0017	0000	26	75 325	33 10.7'N	27 5.2'E	9	142.37	0005	2698.	82.	0000	13	332900	
CHN	119	2	0070	0000	15	75 330	33 14.6'N	28 15.4'E	9	142.38	0014	3106.	538.	0000	10	472800	
CHN	119	2	0070	0000	26	75 330	33 14.6'N	28 15.4'E	9	142.38	0014	3106.	127.	0000	10	482600	
CHN	119	2	0072	0000	15	75 330	33 19.4'N	29 40.4'E	9	142.39	0015	2828.	968.	0000	24	481800	
CHN	119	2	0072	0000	26	75 330	33 19.4'N	29 40.4'E	9	142.39	0015	2828.	137.	0000	24	433300	
CHN	61	3	0039	0000	15	66 830	34 20.2'N	22 29.7'E	6	142.42	0000	2586.	267.	0000	21	332941	
CHN	61	3	0041	0000	15	66 9 1	34 42.2'N	24 34.1'E	6	142.44	0000	2073.	742.	0000	21	327941	
CHN	61	3	0042	0000	15	66 9 3	34 14.5'N	25 1.0'E	6	142.45	0000	3546.	558.	0000	21	386641	
CHN	61	3	0046	0000	15	66 9 7	34 17.7'N	26 12.2'E	6	142.46	0000	3151.	457.	0000	21	303641	
CHN	61	4	0053	0000	15	66 919	34 9.0'N	28 51.8'E	6	142.48	0000	2518.	648.	0000	21	396941	
CHN	61	4	0053	0000	26	66 919	34 9.0'N	28 51.8'E	6	142.48	0000	2518.	101.	0000	21	396941	
KNR	134	7	0000	0000	17	88 4 6	35 52.1'N	20 47.2'E	6	142.50	0009	3228.	227.	0000	21	3308	
KNR	134	7	0000	0000	17	88 4 7	35 51.9'N	20 46.6'E	6	142.50	0010	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 7	35 46.3'N	21 24.6'E	6	142.51	0011	0.	0.	0000	21	0000	
CHN	61	3	0037	0000	15	66 828	35 47.1'N	25 15.0'E	1	142.55	0000	1864.	1024.	0000	21	496941	
CHN	61	3	0050	0000	15	66 912	35 30.9'N	28 11.8'E	6	142.58	0000	2483.	416.	0000	21	396941	
CHN	61	4	0052	0000	15	66 918	35 5.9'N	28 36.5'E	6	142.58	0000	2848.	618.	0000	21	335941	
KNR	134	7	0000	0000	17	88 4 6	36 4.0'N	20 14.4'E	6	142.60	0004	3299.	57.	0000	21	3302	
KNR	134	7	0000	0000	17	88 4 6	36 10.2'N	20 23.5'E	6	142.60	0005	3149.	100.	0000	21	3908	
KNR	134	7	0000	0000	17	88 4 6	36 9.7'N	20 28.9'E	6	142.60	0006	3070.	284.	0000	21	3308	
KNR	134	7	0000	0000	17	88 4 6	36 10.0'N	20 29.0'E	6	142.60	0007	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 6	36 10.0'N	20 29.0'E	6	142.60	0008	0.	0.	0000	21	0000	

MARSDEN SQUARE #142

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	7	3	0002	0000	13	59 531	36 37.0'N	21 10.0'E	4	142.61	0002	4976.	151.	0000	21		335000
CHN	7	3	0003	0000	13	59 6 1	36 13.5'N	23 23.0'E	4	142.63	0003	1249.	157.	0000	21		333000
CHN	7	3	0004	0000	13	59 6 1	36 13.8'N	23 20.0'E	4	142.63	0004	1249.	122.	0000	21		335000
CHN	7	4	0005	0000	13	59 6 5	36 11.8'N	23 22.0'E	3	142.63	0005	1180.	71.	0000	21		335000
CHN	7	4	0006	0000	13	59 6 5	36 12.5'N	23 21.9'E	3	142.63	0006	1194.	135.	0000	21		333000
CHN	61	3	0035	0000	15	66 827	36 25.8'N	25 23.3'E	6	142.65	0000	379.	300.	0000	21		986441
CHN	61	4	0051	0000	15	66 917	36 25.9'N	28 47.0'E	6	142.68	0000	2513.	631.	0000	21		342941
CHN	61	4	0051	0000	26	66 917	36 25.9'N	28 47.0'E	6	142.68	0000	2513.	83.	0000	21		396941

MARSDEN SQUARE #143

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	49	3	B003	0000	15	69 521	33 20.0'N	19 25.0'E	5	143.39	03-2	2788.	239.	0439	0		333900
CHN	61	2	0031	0000	15	66 817	33 30.5'N	19 49.8'E	6	143.39	0000	1108.	338.	0000	21		332241
AII	49	3	A003	0000	15	69 521	34 5.5'N	26 49.0'E	5	143.46	03-1	2637.	400.	0000	5		332900
AII	49	3	A003	0000	26	69 521	34 5.5'N	26 49.0'E	5	143.46	03-1	2637.	100.	0000	5		332900
CHN	61	2	0025	0000	15	66 812	35 12.3'N	16 31.1'E	1	143.56	0000	1460.	732.	0000	21		334641
CHN	61	2	0029	0000	15	66 816	35 55.3'N	19 36.0'E	6	143.59	0000	3955.	910.	0000	21		335941
CHN	61	2	0019	0000	15	66 8 8	36 46.6'N	13 5.8'E	6	143.63	0000	833.	972.	0000	21		393141
CHN	61	2	0019	0000	26	66 8 8	36 46.6'N	13 5.8'E	6	143.63	0000	833.	104.	0000	21		335941
KNR	134	7	0000	0000	17	88 4 5	36 7.0'N	18 30.2'E	6	143.68	0001	4185.	148.	0000	21		3338
CHN	7	3	0001	0000	13	59 531	36 55.0'N	19 50.2'E	4	143.69	0001	3677.	144.	0000	21		373000
KNR	134	7	0000	0000	17	88 4 5	36 12.5'N	19 10.4'E	6	143.69	0002	3529.	73.	0000	21		3303
KNR	134	7	0000	0000	17	88 4 6	36 6.6'N	19 48.7'E	6	143.69	0003	3184.	58.	0000	21		3302
CHN	43	1	0085	0000	13	64 627	38 47.3'N	15 3.0'E	5	143.85	0027	0.	81.	0000	21		496941
CHN	21	1	0003	0000	15	611011	39 57.8'N	12 18.5'E	1	143.92	0003	3534.	0.	0000	21		000000
SHK	381	1	0003	0000	15	82 1 6	39 24.3'N	12 56.7'E	9	143.92	0003	3566.	794.	0000	10		
SHK	381	1	0003	0000	26	82 1 6	39 24.3'N	12 56.7'E	9	143.92	0003	3566.	142.	0000	10		

MARSDEN SQUARE #144

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	134	16	0000	0000	17	88 821	38 0.5'N	3 59.5'E	6	144.83	0001	2861.	166.	0000	21		3308
KNR	134	16	0000	0000	17	88 821	38 0.0'N	3 51.5'E	6	144.83	0002	2575.	222.	0000	21		3308
CHN	21	1	0018	0000	13	61 929	39 31.0'N	5 26.0'E	3	144.95	0018	2777.	154.	0000	21		486000
CHN	7	3	0008	0000	14	59 627	39 30.0'N	6 0.0'E	4	144.96	0008	2848.	2848.	200G	0		

MARSDEN SQUARE #146

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	32	3	0001	0000	15	67 630	45 2.5'N	16 2.5'W	0	146.56	0001	4854.	703.	0057	15		000000

MARSDEN SQUARE #147

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	82	7	0030	0000	15	68 816	40 51.1'N	26 25.0'W	8	147.06	0009	2830.	664.	0000	15		393240
CHN	82	7	0030	0000	26	68 816	40 51.1'N	26 27.0'W	8	147.06	0009	2830.	64.	0000	15		393240
CHN	82	7	0030	0000	15	68 817	40 48.2'N	26 27.0'W	8	147.06	0010	2835.	321.	0000	15		332954
CHN	82	7	0044	0000	15	68 831	40 57.7'N	27 11.5'W	8	147.07	0017	2535.	395.	0000	16		333854
CHN	82	7	0044	0000	26	68 831	40 57.7'N	27 11.5'W	8	147.07	0017	2535.	111.	0000	16		333454

MARSDEN SQUARE #147

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	82	6	0023	0000	15	68 8 5	41 38.0'N	27 20.0'W	8	147.17	0003	2525.	481.	0000	15	393854
CHN	82	6	0023	0000	26	68 8 5	41 38.0'N	27 20.0'W	8	147.17	0003	2525.	62.	0000	15	332954
CHN	82	8	0045	0000	15	68 831	41 35.9'N	27 27.0'W	8	147.17	0018	2533.	680.	0000	16	373847
AII	32	3	0006	0000	15	67 7 7	42 56.5'N	27 48.0'W	0	147.27	0006	3063.	826.	0000	15	000000
AII	32	3	0008	0000	15	67 7 8	42 59.5'N	27 47.5'W	0	147.27	0008	2452.	1430.	0000	15	000000
CHN	43	1	0109	0000	13	64 811	42 37.1'N	28 44.8'W	10	147.28	0032	2538.	30.	0000	16	335941
CHN	43	1	0115	0000	15	64 812	42 37.4'N	28 46.4'W	10	147.28	0033	2568.	278.	0000	16	396941
CHN	82	6	0025	0000	15	68 8 7	42 21.7'N	28 37.8'W	8	147.28	0005	2595.	552.	0000	15	332454
CHN	82	6	0025	0000	26	68 8 7	42 21.7'N	28 37.8'W	8	147.28	0005	2595.	20.	0000	15	335954
CHN	82	6	0027	0000	15	68 8 9	42 6.0'N	28 16.0'W	8	147.28	0007	2538.	458.	0000	15	332854
CHN	82	6	0027	0000	26	68 8 9	42 6.0'N	28 16.0'W	8	147.28	0007	2538.	75.	0000	15	332254
CHN	82	7	0033	0000	15	68 822	42 28.5'N	28 40.0'W	8	147.28	0013	2378.	526.	0000	15	333454
CHN	82	7	0033	0000	26	68 822	42 28.5'N	28 40.0'W	8	147.28	0013	2378.	77.	0000	15	333854
CHN	82	6	0028	0000	15	68 810	42 0.0'N	29 54.0'W	8	147.29	0008	2434.	680.	0000	15	332254
CHN	82	6	0028	0000	26	68 810	42 0.0'N	29 54.0'W	8	147.29	0008	2434.	65.	0000	15	332954
CHN	82	7	0036	0000	26	68 823	42 33.3'N	29 18.5'W	8	147.29	0014	3397.	36.	0000	16	335954
AII	32	3	0003	0000	15	67 7 2	43 42.5'N	23 3.0'W	0	147.33	0003	2593.	280.	0000	15	000000
AII	32	3	0004	0000	15	67 7 3	43 24.1'N	24 30.0'W	0	147.34	0004	3403.	607.	0000	15	000000
AII	32	3	0005	0000	15	67 7 3	43 9.0'N	26 39.0'W	0	147.36	0005	3108.	447.	0019	15	000000
CHN	82	7	0032	0000	15	68 820	43 45.0'N	27 46.5'W	8	147.37	0012	2535.	248.	0000	15	333854
CHN	82	7	0032	0000	26	68 820	43 45.0'N	27 46.5'W	8	147.37	0012	2535.	79.	0000	15	333954
CHN	82	8	0054	0000	15	68 9 6	43 50.0'N	27 57.5'W	8	147.37	0022	2575.	688.	0000	15	303854
AII	32	3	0009	0000	15	67 7 9	43 7.0'N	28 21.5'W	0	147.38	0009	2598.	627.	0000	15	000000
AII	32	3	0010	0000	15	67 710	43 8.5'N	28 19.5'W	0	147.38	0010	2595.	869.	0000	15	000000
CHN	82	7	0041	0000	15	68 826	43 22.3'N	28 13.9'W	8	147.38	0015	2151.	393.	0000	16	302854
CHN	82	7	0041	0000	26	68 826	43 22.3'N	28 13.9'W	8	147.38	0015	2151.	122.	0000	16	332454
CHN	82	7	0042	0000	15	68 826	43 19.8'N	28 5.9'W	8	147.38	0016	2958.	533.	0000	16	373854
AII	32	3	0011	0000	13	67 712	43 12.5'N	29 2.0'W	0	147.39	0011	3315.	113.	0000	15	000000
AII	32	3	0012	0000	13	67 712	43 0.5'N	29 15.5'W	0	147.39	0012	2730.	56.	0000	15	000000
AII	32	3	0013	0000	13	67 713	43 15.5'N	29 24.5'W	0	147.39	0013	2979.	73.	0000	15	000000
CHN	82	8	0049	0000	15	68 9 3	43 29.3'N	29 37.5'W	8	147.39	0000	2630.	387.	0000	16	332254
CHN	82	8	0049	0000	26	68 9 3	43 29.3'N	29 37.5'W	8	147.39	0000	2630.	45.	0000	16	336954
CHN	82	8	0050	0000	15	68 9 4	43 29.9'N	29 52.0'W	8	147.39	0020	3020.	572.	0000	15	383847
CHN	82	8	0050	0000	26	68 9 4	43 29.9'N	29 52.0'W	8	147.39	0020	3020.	66.	0000	15	302947
CHN	82	8	0051	0000	15	68 9 4	43 17.3'N	29 49.8'W	8	147.39	0021	2103.	306.	0000	15	373854
CHN	82	8	0051	0000	26	68 9 4	43 17.3'N	29 49.8'W	8	147.39	0021	2103.	84.	0000	15	373854
AII	32	3	0002	0000	15	67 7 2	44 12.0'N	20 11.5'W	0	147.40	0002	4161.	638.	0085	15	000000
CHN	43	1	0106	0000	15	64 8 9	44 36.0'N	28 10.0'W	1	147.48	0030	3226.	270.	0000	16	396941
CHN	43	1	0102	0000	15	64 8 7	45 30.0'N	27 50.0'W	1	147.57	0028	3012.	252.	0000	16	396441

MARSDEN SQUARE #148

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	82	6	0024	0000	15	68 8 6	41 42.5'N	32 51.0'W	8	148.12	0004	3427.	669.	0000	15	332954
CHN	82	6	0024	0000	26	68 8 6	41 42.5'N	32 51.0'W	8	148.12	0004	3427.	77.	0000	15	332254
CHN	82	6	0026	0000	15	68 8 8	42 10.0'N	31 38.0'W	8	148.21	0006	3132.	394.	0000	15	332854
CHN	82	6	0026	0000	26	68 8 8	42 10.0'N	31 38.0'W	8	148.21	0006	3132.	86.	0000	15	332554
CHN	82	7	0031	0000	15	68 819	42 23.0'N	31 47.5'W	8	148.21	0011	3209.	541.	0000	15	333854
CHN	82	7	0031	0000	26	68 819	42 23.0'N	31 47.5'W	8	148.21	0011	3209.	86.	0000	15	386854
CHN	82	8	0057	0000	15	68 9 7	43 27.9'N	30 39.6'W	8	148.30	0024	2925.	423.	0000	15	332854

MARSDEN SQUARE #148

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	82	8	0058	0000	15	68 9 7	43 29.5'N	30 13.0'W	8	148.30	0025	3071.	548.	0000	15		373854
CHN	82	8	0059	0000	15	68 9 8	43 20.1'N	30 0.0'W	8	148.30	0026	2760.	495.	0000	15		032954
CHN	82	8	0056	0000	15	68 9 7	43 35.1'N	31 37.5'W	8	148.31	0023	3406.	621.	0000	15		333854
AII	32	3	0015	0000	15	67 715	44 18.5'N	31 27.0'W	0	148.41	0015	3094.	473.	0000	15		000000
AII	32	3	0016	0000	15	67 715	44 52.7'N	33 1.5'W	0	148.43	0016	4010.	551.	0076	15		000000
AII	32	3	0020	0000	15	67 717	44 28.5'N	39 5.5'W	0	148.49	0020	4142.	716.	0088	15		000000
AII	32	3	0017	0000	15	67 716	45 31.0'N	34 6.5'W	0	148.54	0017	3975.	609.	0085	15		000000
AII	32	3	0019	0000	15	67 717	45 18.0'N	37 18.0'W	0	148.57	0019	4348.	818.	0000	15		000000
AII	32	3	0018	0000	15	67 716	46 10.0'N	35 29.0'W	0	148.65	0018	4307.	892.	0020	15		000000
CHN	13	1	0003	0000	15	60 718	47 25.0'N	37 33.0'W	4	148.77	0003	2716.	847.	0000	11		386400

MARSDEN SQUARE #149

AII	32	3	0022	0000	15	67 718	44 43.0'N	44 8.0'W	0	149.44	0022	4738.	586.	0119	15		000000
AII	32	3	0023	0000	15	67 719	45 4.0'N	46 16.0'W	0	149.56	0023	3508.	631.	0000	15		000000

MARSDEN SQUARE #151

KNR	74	1	0021	0000	14	79 918	40 3.4'N	60 50.2'W	6	151.00	0021	5022.	32.	0000	6		3869
KNR	74	1	0018	0000	14	79 917	40 50.9'N	61 37.4'W	6	151.01	0018	4680.	54.	0000	6		3869
KNR	74	1	0019	0000	14	79 917	40 31.3'N	61 16.0'W	6	151.01	0019	4869.	45.	0000	6		3569
KNR	74	1	0011	0000	14	79 914	40 4.7'N	62 25.7'W	6	151.02	0011	4946.	41.	0000	6		3769
KNR	74	1	0016	0000	14	79 916	40 46.5'N	62 42.6'W	6	151.02	0016	4533.	47.	0000	6		3569
KNR	74	1	0017	0000	14	79 917	40 48.7'N	62 6.8'W	6	151.02	0017	4842.	69.	0000	6		3569
KNR	74	1	0035	0000	14	79 925	40 33.7'N	62 40.4'W	6	151.02	0035	4654.	72.	0000	6		3869
KNR	74	1	0036	0000	14	79 926	40 36.2'N	62 23.3'W	6	151.02	0036	4651.	81.	0000	6		3869
KNR	74	1	0038	0000	14	791026	40 4.7'N	62 24.3'W	6	151.02	0038	4960.	72.	0000	6		3869
KNR	96	1	0001	0000	19	82 7 9	40 26.6'N	62 21.5'W	6	151.02	0001	4814.	20.	0000	10		3359
KNR	96	1	0002	0000	19	82 7 9	40 26.4'N	62 21.0'W	6	151.02	0002	4817.	16.	0000	10		4459
KNR	96	1	0003	0000	19	82 710	40 27.5'N	62 19.4'W	6	151.02	0003	4827.	15.	0000	10		3459
KNR	96	1	0004	0000	19	82 710	40 27.4'N	62 19.7'W	6	151.02	0004	4824.	18.	0000	10		3439
KNR	96	1	0006	0000	19	82 711	40 27.3'N	62 19.5'W	6	151.02	0006	4827.	12.	0000	10		3439
KNR	96	1	0007	0000	19	82 711	40 26.0'N	62 20.8'W	6	151.02	0007	4825.	19.	0000	10		3339
KNR	96	1	0008	0000	19	82 712	40 26.4'N	62 20.5'W	6	151.02	0008	4817.	35.	0000	10		3429
KNR	96	1	0009	0000	19	82 713	40 26.6'N	62 20.5'W	6	151.02	0009	4817.	17.	0000	10		3339
KNR	96	1	0010	0000	19	82 713	40 27.0'N	62 20.3'W	6	151.02	0010	4819.	20.	0000	10		3359
KNR	96	1	0011	0000	19	82 714	40 27.6'N	62 20.1'W	6	151.02	0011	4823.	25.	0000	10		3439
KNR	96	1	0012	0000	19	82 715	40 26.7'N	62 19.6'W	6	151.02	0012	4828.	18.	0000	10		3459
KNR	96	1	0014	0000	19	82 716	40 25.8'N	62 20.5'W	6	151.02	0014	4824.	23.	0000	10		3439
KNR	96	1	0016	0000	19	82 717	40 26.7'N	62 20.9'W	6	151.02	0016	4824.	13.	0000	10		3429
KNR	96	1	0018	0000	19	82 718	40 27.0'N	62 20.2'W	6	151.02	0018	4820.	20.	0000	10		3359
KNR	96	1	0022	0000	19	82 719	40 26.2'N	62 20.1'W	6	151.02	0022	4820.	19.	0000	10		3359
KNR	96	1	0025	0000	19	82 721	40 26.1'N	62 21.0'W	6	151.02	0025	4622.	39.	0000	10		3339
KNR	96	1	0027	0000	19	82 723	40 27.1'N	62 20.4'W	6	151.02	0027	4818.	25.	0000	10		3339
KNR	96	1	0034	0000	19	82 726	40 26.2'N	62 20.3'W	6	151.02	0034	4819.	43.	0000	10		3329
AII	94	1	0001	0000	19	77 616	40 35.1'N	63 4.4'W	6	151.03	0001	4539.	31.	0000	6		443900
KNR	74	1	0013	0000	14	79 915	40 15.6'N	63 2.8'W	6	151.03	0013	4776.	29.	0000	6		3869
KNR	74	1	0047	0000	14	7910 1	40 1.2'N	63 33.6'W	6	151.03	0047	4821.	63.	8696	0		0006

MARSDEN SQUARE #151

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	78	1	0001	0000	14	80 427	40 20.6'N	63 4.6'W	6	151.03	0001	4689.	4.	0000	11		00
KNR	78	1	0002	0000	14	80 427	40 25.2'N	63 8.4'W	6	151.03	0002	4611.	4862.	0047	0	0011	
KNR	78	1	0003	0000	14	80 428	40 31.3'N	63 12.5'W	6	151.03	0003	4537.	56.	0000	11	3861	
KNR	78	1	0004	0000	14	80 428	40 34.3'N	63 5.0'W	6	151.03	0004	4535.	56.	0000	11	4832	
KNR	78	1	0005	0000	14	80 428	40 39.1'N	63 8.9'W	6	151.03	0005	4474.	15.	0000	11	4569	
KNR	78	1	0006	0000	14	80 428	40 35.6'N	63 9.9'W	6	151.03	0006	4499.	74.	0000	11	4862	
KNR	78	1	0007	0000	14	80 429	40 19.8'N	63 4.3'W	6	151.03	0008	4695.	51.	0000	11	4832	
KNR	78	1	0010	0000	14	80 429	40 24.7'N	63 3.7'W	6	151.03	0008	4636.	57.	0000	11	4862	
KNR	78	1	0012	0000	14	80 430	40 18.1'N	63 10.8'W	6	151.03	0009	4668.	75.	0000	11	4819	
KNR	74	1	0005	0000	14	79 911	40 31.7'N	64 6.8'W	6	151.04	0005	4526.	49.	0000	6	383900	
KNR	74	1	0034	0000	14	79 924	40 28.5'N	65 30.1'W	6	151.05	0034	1705.	65.	0000	6	3869	
KNR	27	1	0001	0000	16	72 6 8	42 24.9'N	67 31.0'W	5	151.27	0001	80.	1965.	0000	2	224844	
AII	33	1	0001	0000	15	67 728	43 1.0'N	70 26.0'W	5	151.30	0001	105.	468.	0000	23	483954	

MARSDEN SQUARE #152

AII	72	1	0001	0000	15	721021	40 7.7'N	70 34.4'W	5	152.00	0001	117.	468.	0000	2	885500	
AII	72	1	0001	0000	26	721021	40 7.7'N	70 34.4'W	5	152.00	0001	117.	37.	0000	2	225500	
AII	72	1	0010	0000	15	721022	40 4.4'N	70 59.5'W	5	152.00	0009	214.	364.	0000	4	885500	
AII	72	1	0012	0000	15	721023	40 1.3'N	70 44.4'W	9	152.00	0010	225.	375.	0000	4	283800	
ALB	18	4	0011	3060	13	681211	40 3.3'N	70 50.5'W	5	152.00	0011	161.	35.	0000	2	000000	
ALB	18	4	0012	3061	13	681211	40 7.5'N	70 54.0'W	5	152.00	0012	137.	45.	0000	2	000000	
ALB	18	4	0013	3062	13	681211	40 11.0'N	70 55.8'W	5	152.00	0013	128.	50.	0000	2	000000	
ALB	18	4	0014	3063	13	681211	40 14.8'N	70 57.0'W	5	152.00	0014	113.	70.	0000	2	000000	
ALB	18	4	0015	3064	13	681211	40 18.5'N	70 59.3'W	5	152.00	0015	97.	99.	0000	2	000000	
ALB	18	4	0022	3071	13	681212	40 42.0'N	70 58.0'W	5	152.00	0022	58.	127.	0000	2	000000	
ALB	18	4	0023	3072	13	681212	40 37.0'N	70 55.0'W	5	152.00	0023	64.	160.	0000	2	000000	
ALB	18	4	0024	3073	13	681212	40 34.0'N	70 53.0'W	5	152.00	0024	66.	128.	0000	2	000000	
ALB	18	4	0025	3074	13	681212	40 30.8'N	70 50.5'W	5	152.00	0025	68.	140.	0000	2	000000	
ALB	18	4	0026	3075	13	681212	40 28.0'N	70 48.5'W	5	152.00	0026	71.	164.	0000	2	000000	
ALB	18	4	0027	3076	13	681212	40 25.3'N	70 47.0'W	5	152.00	0027	79.	142.	0000	2	000000	
ALB	18	4	0028	3077	13	681212	40 23.5'N	70 45.8'W	5	152.00	0028	88.	170.	0000	2	000000	
ALB	18	4	0029	3078	13	681212	40 20.5'N	70 43.5'W	5	152.00	0029	97.	162.	0000	2	000000	
ALB	18	4	0030	3079	13	681212	40 18.5'N	70 42.2'W	5	152.00	0030	108.	162.	0000	2	000000	
ALB	18	4	0031	3080	13	681212	40 14.0'N	70 39.5'W	5	152.00	0031	117.	145.	0000	2	000000	
ALB	18	4	0032	3081	13	681212	40 10.5'N	70 37.0'W	5	152.00	0032	117.	81.	0000	2	000000	
ALB	18	4	0033	3082	13	681212	40 8.0'N	70 34.0'W	5	152.00	0033	117.	52.	0000	2	000000	
ALB	18	4	0034	3083	13	681212	40 4.8'N	70 33.5'W	5	152.00	0034	128.	23.	0000	2	000000	
ALB	18	4	0035	3085	13	681212	40 9.7'N	70 15.5'W	5	152.00	0035	113.	52.	0000	2	000000	
ALB	18	4	0036	3086	13	681212	40 15.0'N	70 17.5'W	5	152.00	0036	93.	99.	0000	2	000000	
ALB	18	4	0037	3087	13	681212	40 19.5'N	70 20.0'W	5	152.00	0037	84.	135.	0000	2	000000	
ALB	18	4	0038	3088	13	681212	40 24.0'N	70 25.0'W	5	152.00	0038	69.	135.	0000	2	000000	
ALB	18	4	0039	3089	13	681212	40 27.5'N	70 35.0'W	5	152.00	0039	75.	143.	0000	2	000000	
ALB	18	4	0040	3090	13	681212	40 26.5'N	70 41.0'W	5	152.00	0040	77.	142.	0000	2	000000	
ALB	18	4	0041	3091	13	681213	40 25.6'N	70 51.5'W	5	152.00	0041	82.	172.	0000	2	000000	
ALB	18	4	0042	3092	13	681213	40 25.0'N	70 56.5'W	5	152.00	0042	82.	150.	0000	2	000000	
ALB	18	4	0001	3050	13	681211	40 21.5'N	71 20.5'W	5	152.01	0001	79.	74.	0000	2	000000	
ALB	18	4	0002	3051	13	681211	40 18.0'N	71 19.5'W	5	152.01	0002	84.	70.	0000	2	000000	
ALB	18	4	0003	3052	13	681211	40 14.5'N	71 17.5'W	5	152.01	0003	88.	59.	0000	2	000000	

MARSDEN SQUARE #152

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
ALB	18	4	0004	3053	13	681211	40 11.0'N	71 15.0'W	5	152.01	0004	101.	33.	0000	2	000000	
ALB	18	4	0005	3054	13	681211	40 7.3'N	71 13.0'W	5	152.01	0005	146.	97.	0000	2	000000	
ALB	18	4	0006	3055	13	681211	40 1.0'N	71 9.0'W	5	152.01	0006	77.	41.	0000	2	000000	
ALB	18	4	0016	3065	13	681211	40 23.0'N	71 1.0'W	5	152.01	0016	84.	110.	0000	2	000000	
ALB	18	4	0017	3066	13	681211	40 27.0'N	71 3.0'W	5	152.01	0017	77.	193.	0000	2	000000	
ALB	18	4	0018	3067	13	681211	40 31.0'N	71 4.5'W	5	152.01	0018	73.	140.	0000	2	000000	
ALB	18	4	0019	3068	13	681211	40 34.0'N	71 7.8'W	5	152.01	0019	66.	119.	0000	2	000000	
ALB	18	4	0020	3069	13	681212	40 39.0'N	71 11.8'W	5	152.01	0020	66.	61.	0000	2	000000	
ALB	18	4	0021	3070	13	681212	40 42.0'N	71 14.7'W	5	152.01	0021	58.	49.	0000	2	000000	
ALB	18	4	0043	3093	13	681213	40 23.8'N	71 5.6'W	5	152.01	0043	82.	112.	0000	2	000000	
ALB	18	4	0044	3094	13	681213	40 22.9'N	71 11.0'W	5	152.01	0044	79.	75.	0000	2	000000	
ALB	18	4	0045	3095	13	681213	40 21.0'N	71 24.3'W	5	152.01	0045	75.	10.	0000	2	000000	
ALB	18	4	0046	3096	13	681213	40 20.5'N	71 30.3'W	5	152.01	0046	75.	100.	0000	2	000000	
ALB	18	4	0047	3097	13	681213	40 16.7'N	71 32.8'W	5	152.01	0047	80.	71.	0000	2	000000	
ALB	18	4	0048	3098	13	681213	40 12.5'N	71 34.8'W	5	152.01	0048	82.	72.	0000	2	000000	
ALB	18	4	0056	3106	13	681213	40 24.2'N	71 40.5'W	5	152.01	0056	75.	83.	0000	2	000000	
ALB	18	4	0058	3108	13	681213	40 33.2'N	71 36.3'W	5	152.01	0058	88.	5.	0000	2	000000	
ALB	18	4	0059	3109	13	681213	40 27.0'N	71 25.0'W	5	152.01	0059	68.	10.	0000	2	000000	
ALB	18	4	0060	3110	13	681213	40 19.0'N	71 15.0'W	5	152.01	0060	86.	10.	0000	2	000000	
ALB	18	4	0061	3111	13	681213	40 23.5'N	71 17.0'W	5	152.01	0061	79.	10.	0000	2	000000	
ALB	18	4	0062	3112	13	681213	40 26.7'N	71 18.4'W	5	152.01	0062	73.	10.	0000	2	000000	
ALB	18	4	0063	3113	13	681213	40 29.3'N	71 19.8'W	5	152.01	0063	68.	10.	0000	2	000000	
ALB	18	4	0064	3114	13	681213	40 32.2'N	71 20.3'W	5	152.01	0064	82.	10.	0000	2	000000	
ALB	18	4	0065	3115	13	681213	40 39.0'N	71 20.3'W	5	152.01	0065	57.	37.	0000	2	000000	
AST	9	75	0024	0000	13	75 915	41 32.3'N	70 54.3'W	1	152.10	0001	6.	112.	0000	23	626500	
AST	9	75	0052	0000	13	75 916	41 36.5'N	70 55.6'W	1	152.10	0003	4.	34.	0000	23	686500	
AST	9	75	0067	0000	13	75 917	41 36.2'N	70 53.6'W	1	152.10	0004	9.	88.	0000	23	686500	
AST	9	75	0078	0000	13	75 917	41 37.0'N	70 54.1'W	1	152.10	0006	9.	70.	0000	23	686500	
AST	9	75	0080	0000	13	75 919	41 38.3'N	70 55.0'W	1	152.10	0008	8.	68.	0000	23	626500	
AST	10	75	0081	0000	13	7510 9	41 39.1'N	70 55.2'W	1	152.10	0009	5.	119.	0000	23	683800	
AST	10	75	0083	0000	13	7510 9	41 38.7'N	70 55.1'W	1	152.10	0010	3.	23.	0000	23	866500	
AST	10	75	0084	0000	13	7510 9	41 38.6'N	70 54.8'W	1	152.10	0011	3.	123.	0000	23	686500	
AST	10	75	0085	0000	13	7510 9	41 38.9'N	70 55.2'W	1	152.10	0012	5.	39.	0000	23	626500	
AST	10	75	0086	0000	13	7510 9	41 38.7'N	70 55.3'W	1	152.10	0013	11.	63.	0000	23	863400	
AST	10	75	0087	0000	13	7510 9	41 38.5'N	70 55.2'W	1	152.10	0014	10.	52.	0000	23	682100	
AST	10	75	0092	0000	13	751010	41 32.8'N	70 54.3'W	1	152.10	0016	13.	79.	0000	23	866100	
AST	10	75	0097	0000	13	751010	41 33.5'N	70 53.9'W	1	152.10	0017	13.	87.	0000	23	866800	
AST	10	75	0099	0000	13	751010	41 33.5'N	70 52.7'W	1	152.10	0018	12.	134.	0000	23	626500	
AST	10	75	0100	0000	13	751010	41 33.9'N	70 52.1'W	1	152.10	0019	12.	94.	0000	23	686500	
AST	7	76	0108	0000	13	56 7 7	41 32.0'N	70 46.2'W	1	152.10	0020	15.	140.	0000	23	886500	
AST	7	76	0109	0000	13	76 7 7	41 32.5'N	70 54.1'W	1	152.10	0021	15.	114.	0000	23	866500	
AST	7	76	0110	0000	13	76 7 7	41 34.6'N	70 52.6'W	1	152.10	0022	9.	63.	0000	23	866800	
AST	7	76	0111	0000	13	76 7 7	41 35.5'N	70 52.6'W	1	152.10	0023	8.	38.	0000	23	866500	
AST	7	76	0113	0000	13	76 7 7	41 35.8'N	70 53.5'W	1	152.10	0025	9.	78.	0000	23	866500	
AST	7	76	0114	0000	13	76 7 7	41 34.9'N	70 54.2'W	1	152.10	0026	8.	86.	0000	23	866500	
AST	7	76	0115	0000	13	76 7 7	41 35.4'N	70 54.7'W	1	152.10	0027	6.	15.	0000	23	866500	
AST	7	76	0116	0000	13	76 7 7	41 37.8'N	70 54.5'W	1	152.10	0028	8.	58.	0000	23	213500	
AST	7	76	0117	0000	13	76 7 7	41 38.9'N	70 54.9'W	1	152.10	0029	8.	58.	0000	23	283500	
KNR	10	1	0001	0000	16	70 9 9	42 24.6'N	70 34.3'W	3	152.20	0001	77.	2174.	0000	2	266500	

MARSDEN SQUARE #176

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	49	4	1470	0000	13	69 419	42 2.9'N	41 18.1'E	5	176.21	029A	906.	218.	0000	21	431600

MARSDEN SQUARE #177

AII	49	3	1447	0000	15	69 4 3	41 23.0'N	31 3.6'E	5	177.11	017A	1256.	419.	0000	21	321900
AII	49	3	1447	0000	26	69 4 3	41 23.0'N	31 3.6'E	5	177.11	017B	1256.	91.	0000	21	466900
AII	49	3	1438	0000	13	69 328	41 58.5'N	35 41.0'E	5	177.15	0009	284.	145.	0000	21	331600
AII	49	4	1476	0000	13	69 423	41 37.7'N	37 39.0'E	5	177.17	033A	1741.	220.	0000	21	231900
AII	49	4	1476	0000	20	69 423	41 35.0'N	37 41.0'E	5	177.17	033B	1726.	20.	0000	21	000000
AII	49	3	1437	0000	13	69 327	41 41.2'N	38 28.3'E	5	177.18	0008	973.	62.	0000	21	321900
AII	49	4	1477	0000	15	69 423	41 34.0'N	39 3.2'E	5	177.19	034B	1966.	530.	0000	21	843600
AII	49	4	1468	0000	20	69 418	42 0.9'N	40 26.2'E	5	177.20	027A	1918.	15.	0000	21	000000
AII	49	3	1446	0000	15	69 4 2	42 11.5'N	31 21.8'E	5	177.21	016A	2147.	772.	0000	21	483100
AII	49	3	1446	0000	26	69 4 2	42 11.5'N	31 21.8'E	5	177.21	016B	2147.	117.	0000	21	023900
AII	49	3	1431	0000	15	69 322	42 14.0'N	33 4.0'E	5	177.23	002A	2136.	491.	0000	21	322600
AII	49	3	1440	0000	13	69 329	42 12.2'N	34 21.3'E	5	177.24	011A	264.	131.	0000	21	431900
AII	49	3	1440	0000	15	69 329	42 12.7'N	34 21.3'E	5	177.24	011B	207.	740.	0000	21	312500
AII	49	3	1440	0000	26	69 329	42 12.7'N	34 21.3'E	5	177.24	011C	207.	128.	0000	21	005900
AII	49	3	1439	0000	15	69 329	42 21.9'N	35 29.5'E	5	177.25	010A	1943.	700.	0000	21	281500
AII	49	4	1474	0000	15	69 421	42 23.0'N	37 36.6'E	5	177.27	032A	2114.	1152.	0000	21	233900
AII	49	4	1474	0000	26	69 421	42 23.0'N	37 36.6'E	5	177.27	032B	2114.	192.	0000	21	233900
AII	49	4	1474	0000	20	69 421	42 23.3'N	37 37.2'E	6	177.27	030C	2117.	600.	0000	21	383900
AII	49	4	1479	0000	15	69 425	42 17.6'N	38 9.9'E	5	177.28	036B	2099.	424.	0000	21	286900
AII	49	4	1479	0000	26	69 425	42 17.6'N	38 9.8'E	5	177.28	036A	2099.	75.	0000	21	231900
AII	49	4	1478	0000	15	69 425	42 8.0'N	39 14.5'E	5	177.29	035A	2026.	384.	0000	21	824900
AII	49	4	1478	0000	26	69 425	42 8.0'N	39 14.5'E	5	177.29	035B	2026.	89.	0000	21	234900
AII	49	3	1450	0000	13	69 4 4	43 39.4'N	30 9.4'E	5	177.30	0018	563.	115.	0000	21	341600
AII	49	3	1444	0000	15	69 4 1	43 48.0'N	31 45.3'E	5	177.31	014A	1597.	511.	0000	21	421600
AII	49	3	1445	0000	15	69 4 2	43 16.0'N	31 18.0'E	5	177.31	015A	1915.	357.	0000	21	321600
AII	49	3	1445	0000	26	69 4 2	43 16.0'N	31 18.0'E	5	177.31	015B	1915.	163.	0000	21	341900
AII	49	4	1462	0000	13	69 414	43 4.5'N	32 59.5'E	5	177.32	024B	2179.	106.	0000	21	431900
AII	49	4	1462	0000	20	69 414	43 2.8'N	33 2.1'E	6	177.33	024A	2186.	296.	0000	21	000000
AII	49	4	1486	0000	15	69 430	43 59.4'N	33 44.6'E	5	177.33	041A	1998.	825.	0000	21	231900
AII	49	4	1486	0000	26	69 430	43 59.4'N	33 44.6'E	5	177.33	041B	1998.	80.	0000	21	231900
AII	49	4	1486	0000	13	69 430	43 59.4'N	33 44.6'E	5	177.33	041C	1998.	294.	0000	21	231600
AII	49	3	1432	0000	13	69 323	43 0.6'N	34 4.5'E	5	177.34	0003	2248.	124.	0000	21	341900
AII	49	4	1464	0000	15	69 415	43 1.9'N	35 28.7'E	5	177.35	025B	2173.	211.	0000	21	344900
AII	49	4	1464	0000	26	69 415	43 1.9'N	35 28.7'E	5	177.35	025C	2173.	107.	0000	21	231900
AII	49	4	1464	0000	13	69 415	43 3.0'N	35 31.0'E	5	177.35	025D	2175.	125.	0000	21	231900
AII	49	4	1464	0000	20	69 415	43 1.0'N	35 28.0'E	6	177.35	025A	2179.	400.	0000	21	000000
AII	49	3	1436	0000	15	69 326	43 24.0'N	36 36.0'E	5	177.36	007A	2158.	535.	0000	21	243100
AII	49	3	1436	0000	26	69 326	43 24.0'N	36 36.0'E	5	177.36	007B	2158.	119.	0000	21	434900
AII	49	4	1466	0000	15	69 417	43 1.8'N	38 30.5'E	5	177.38	026A	2104.	129.	0000	21	885900
AII	49	4	1466	0000	26	69 417	43 1.8'N	38 30.5'E	5	177.38	026B	2104.	128.	0000	21	341900
AII	49	4	1466	0000	20	69 417	43 7.1'N	38 27.8'E	6	177.38	026C	2106.	350.	0000	21	000000
AII	49	4	1473	0000	13	69 420	43 9.0'N	38 51.2'E	5	177.38	031A	1412.	212.	0000	21	225800
AII	49	4	1473	0000	15	69 420	43 52.0'N	38 46.2'E	5	177.38	031C	1550.	752.	0000	21	225900
AII	49	4	1480	0000	15	69 426	43 6.5'N	38 25.7'E	5	177.38	037A	2108.	428.	0000	21	231100
AII	49	4	1480	0000	26	69 426	43 6.5'N	38 25.7'E	5	177.38	037B	2108.	118.	0000	21	341900

MARSDEN SQUARE #177

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	49	4	1472	0000	13	69 420	43 9.0'N	39 54.5'E	5	177.39	030B	1541.	273.	0000	21		000000
AII	49	3	1442	0000	15	69 331	44 44.3'N	31 57.2'E	5	177.41	012A	420.	278.	0000	21		483900
AII	49	3	1442	0000	26	69 331	44 44.3'N	31 57.2'E	5	177.41	012B	420.	132.	0000	21		432600
AII	49	3	1442	0000	13	69 331	44 35.9'N	31 54.0'E	5	177.41	012C	549.	127.	0000	21		341900
AII	49	3	1443	0000	15	69 331	44 35.3'N	31 55.3'E	5	177.41	013A	1057.	766.	0000	21		241600
AII	49	3	1443	0000	26	69 331	44 35.3'N	31 55.3'E	5	177.41	013B	1057.	198.	0000	21		342900
AII	49	3	1433	0000	15	69 324	44 5.0'N	35 0.0'E	5	177.45	004A	2225.	493.	0000	21		031100
AII	49	4	1485	0000	20	69 430	44 24.9'N	35 15.2'E	5	177.45	040B	1704.	182.	0000	21		221900
AII	49	3	1434	0000	15	69 325	44 20.0'N	36 0.0'E	5	177.46	005A	1466.	140.	0000	21		231900
AII	49	3	1435	0000	13	69 325	44 26.0'N	36 13.0'E	5	177.46	0006	1033.	160.	0000	21		232900
AII	49	4	1484	0000	20	69 430	44 42.1'N	36 53.6'E	6	177.46	039A	340.	400.	0000	21		345900
AII	49	4	1484	0000	13	69 430	44 41.6'N	36 54.9'E	5	177.46	039B	386.	201.	0000	21		231900
AII	49	4	1481	0000	15	69 427	44 2.2'N	37 58.2'E	5	177.47	038A	2037.	508.	0000	21		231900
AII	49	4	1481	0000	26	69 427	44 2.2'N	37 58.2'E	5	177.47	038B	2037.	191.	0000	21		231900

MARSDEN SQUARE #178

AII	49	3	1453	0000	13	69 4 6	41 50.5'N	28 41.2'E	5	178.18	0021	255.	53.	0000	21		081900
AII	49	3	1430	0000	13	69 321	41 25.7'N	29 25.6'E	5	178.19	0001	663.	119.	0000	21		207900
AII	49	3	1461	0000	15	69 4 6	41 40.9'N	29 45.4'E	5	178.19	023B	1788.	890.	0000	21		081100
AII	49	3	1461	0000	26	69 4 6	41 40.9'N	29 45.4'E	5	178.19	023C	1788.	107.	0000	21		381500
AII	49	3	1452	0000	15	69 4 5	42 46.6'N	28 35.9'E	5	178.28	0020	728.	848.	0000	21		432900
AII	49	3	1451	0000	13	69 4 5	43 34.2'N	29 31.5'E	5	178.39	0019	460.	72.	0000	21		341900

MARSDEN SQUARE #179

SHK	381	1	0002	0000	15	811211	40 14.5'N	11 17.6'E	9	179.01	0002	2654.	826.	0000	10		
SHK	381	1	0002	0000	26	811211	40 14.5'N	11 17.6'E	9	179.01	0002	2654.	144.	0000	10		
CHN	7	4	0001	0000	15	59 611	40 16.0'N	12 37.5'E	4	179.02	0001	3584.	595.	0000	21		373000
CHN	7	4	0002	0000	15	59 613	40 2.0'N	12 16.5'E	4	179.02	0002	3610.	874.	0000	21		396000
CHN	7	4	0003	0000	15	59 617	40 8.0'N	12 19.0'E	4	179.02	0003	3612.	792.	0000	21		326000
CHN	7	4	0009	0000	13	59 617	40 10.0'N	12 15.0'E	4	179.02	0009	3453.	190.	0000	21		334000

MARSDEN SQUARE #180

SHK	381	1	0001	0000	15	811127	40 44.1'N	4 52.8'E	9	180.04	0001	2600.	628.	0000	10		
CHN	7	7	0006	0000	15	59 711	41 35.0'N	4 52.0'E	4	180.14	0006	2499.	764.	0000	21		323000
CHN	21	1	0019	0000	13	61 930	42 16.0'N	7 10.5'E	1	180.27	0019	2687.	191.	0000	21		386000
CHN	21	1	0020	0000	13	6110 1	43 21.0'N	8 15.5'E	5	180.38	0020	2001.	0.	0000	21		000000

MARSDEN SQUARE #181

KNR	54	6	0091	0000	19	76 529	59 41.2'N	6 57.2'W	1	181.96	0021	1068.	24.	0000	13		7869
KNR	54	6	0092	0000	19	76 530	59 11.7'N	8 51.5'W	1	181.98	0022	1498.	34.	0000	13		3352

MARSDEN SQUARE #182

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	51	3	0036	0000	16	75 824	54 28.5'N	15 17.9'W	9	182.45	0013	2665.	1440.	0000	26	433200	
KNR	51	3	0036	0000	26	75 824	54 28.5'N	15 17.9'W	9	182.45	0013	2665.	139.	0000	26	342900	
KNR	51	3	0039	0000	16	75 827	56 16.5'N	12 30.2'W	11	182.62	0017	2505.	1003.	0000	26	431900	
KNR	51	3	0039	0000	26	75 827	56 16.5'N	12 30.2'W	11	182.62	0017	2505.	89.	0000	26	333200	
KNR	51	3	0041	0000	16	75 829	56 17.9'N	12 31.3'W	11	182.62	0019	2535.	1492.	0000	26	431900	
KNR	51	3	0041	0000	26	75 829	56 17.9'N	12 31.3'W	11	182.62	0019	2535.	82.	0000	26	338900	
KNR	51	3	0041	0000	18	75 830	56 16.8'N	12 32.8'W	11	182.62	0022	2930.	84.	0000	26	346200	
KNR	51	3	0041	0000	18	75 830	56 16.8'N	12 33.2'W	11	182.62	0023	2939.	86.	0000	26	435900	
KNR	51	3	0041	0000	18	75 830	56 16.6'N	12 33.3'W	11	182.62	0024	2945.	85.	0000	26	433200	
KNR	51	3	0041	0000	18	75 830	56 16.5'N	12 33.8'W	11	182.62	0025	2956.	91.	0000	26	386200	
KNR	51	3	0041	0000	18	75 830	56 16.6'N	12 34.0'W	11	182.62	0026	2962.	51.	0000	26	335900	
KNR	51	3	0042	0000	16	75 830	56 13.4'N	12 38.0'W	11	182.62	0031	2619.	1296.	0000	26	431900	
KNR	51	3	0042	0000	26	75 830	56 13.4'N	12 38.0'W	11	182.62	0031	2619.	123.	0000	26	335900	
KNR	54	6	0094	0000	19	76 531	59 26.0'N	13 6.6'W	1	182.93	0024	1290.	39.	0000	13	3332	

MARSDEN SQUARE #183

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	13	1	0004	0000	15	60 723	53 53.0'N	24 12.0'W	4	183.34	0004	3375.	195.	0000	11	356200	
AII	94	2	0094	0000	15	77 720	55 53.4'N	29 35.9'W	6	183.59	0019	2876.	1190.	0000	15	393200	
AII	94	2	0094	0000	26	77 720	55 53.4'N	29 35.9'W	6	183.59	0019	2876.	153.	0000	15	393200	
AII	94	2	0095	0000	15	77 720	55 59.9'N	29 36.6'W	6	183.59	0020	2831.	1145.	0000	15	333200	
AII	94	2	0095	0000	26	77 720	55 59.9'N	29 36.6'W	6	183.59	0020	2831.	141.	0000	53	31200	
AII	94	2	0097	0000	15	77 721	55 59.3'N	29 7.5'W	6	183.59	0022	2737.	1174.	0000	15	1370	
AII	94	2	0097	0000	26	77 721	55 59.3'N	29 7.5'W	6	183.59	0022	2737.	103.	0000	15	333200	
AII	94	2	0098	0000	15	77 721	55 58.7'N	29 25.7'W	6	183.59	0023	2823.	1124.	0000	15	135200	
AII	94	2	0098	0000	26	77 721	55 58.7'N	29 25.7'W	6	183.59	0023	2823.	148.	0000	15	330200	
AII	94	2	0099	0000	15	77 722	55 58.1'N	29 29.7'W	6	183.59	0024	2848.	1171.	0000	15	00	
AII	94	2	0099	0000	26	77 722	55 58.1'N	29 29.7'W	6	183.59	0024	2848.	142.	0000	15	330200	
AII	94	2	0100	0000	15	77 724	55 59.2'N	29 44.7'W	6	183.59	0025	2863.	1117.	0000	15	134200	
AII	94	2	0100	0000	26	77 724	55 59.2'N	29 44.7'W	6	183.59	0025	2863.	123.	0000	15	317000	
AII	94	2	0101	0000	15	77 724	55 59.8'N	29 52.5'W	6	183.59	0026	2892.	1181.	0000	15	00	
AII	94	2	0101	0000	26	77 724	55 59.8'N	29 52.5'W	6	183.59	0026	2892.	115.	0000	15	331200	
AII	94	2	0092	0000	15	77 719	56 39.2'N	28 29.1'W	6	183.68	0017	2691.	1206.	0000	15	337200	
AII	94	2	0092	0000	26	77 719	56 39.2'N	28 29.1'W	6	183.68	0017	2691.	162.	0000	15	333000	
AII	94	2	0093	0000	15	77 720	56 2.8'N	29 0.1'W	6	183.69	0018	2732.	1072.	0000	15	337200	
AII	94	2	0093	0000	26	77 720	56 2.8'N	29 0.1'W	6	183.69	0018	2732.	112.	0000	15	333200	
AII	94	2	0096	0000	15	77 721	56 5.8'N	29 36.5'W	9	183.69	0021	2721.	1170.	0000	15	337000	
AII	94	2	0096	0000	26	77 721	56 5.8'N	29 36.5'W	9	183.69	0021	2721.	151.	0000	15	130200	
AII	94	2	0102	0000	15	77 724	56 4.7'N	29 50.3'W	6	183.69	0027	2819.	1168.	0000	15	337200	
AII	94	2	0102	0000	26	77 724	56 4.7'N	29 50.3'W	6	183.69	0027	2819.	161.	0000	15	331000	
AII	94	2	0103	0000	15	77 725	56 3.3'N	29 37.2'W	6	183.69	0028	2770.	1116.	0000	15	317200	
AII	94	2	0103	0000	26	77 725	56 3.3'N	29 37.2'W	6	183.69	0028	2770.	70.	0000	15	310200	
AII	94	2	0104	0000	15	77 725	56 4.3'N	29 24.9'W	6	183.69	0029	2746.	1148.	0000	15	00	
AII	94	2	0104	0000	26	77 725	56 4.3'N	29 24.9'W	6	183.69	0029	2746.	143.	0000	15	00	
AII	94	2	0105	0000	15	77 725	56 1.3'N	29 36.3'W	6	183.69	0030	2804.	1200.	0000	15	317200	
AII	94	2	0105	0000	26	77 725	56 1.3'N	29 36.3'W	6	183.69	0030	2804.	152.	0000	15	00	
AII	94	2	0091	0000	15	77 719	57 29.5'N	26 46.2'W	6	183.76	0016	2708.	1200.	0000	15	337200	
AII	94	2	0091	0000	26	77 719	57 29.5'N	26 46.2'W	6	183.76	0016	2708.	130.	0000	15	330200	
AII	94	2	0090	0000	15	77 718	58 15.1'N	25 14.5'W	6	183.85	0015	2681.	1166.	0000	15	337000	

MARSDEN SQUARE #183

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	94	2	0090	0000	26	77 718	58 15.1'N	25 14.5'W	6	183.85	0015	2681.	138.	0000	15		337000
AII	94	2	0088	0000	15	77 717	59 45.2'N	23 11.6'W	9	183.93	0013	2244.	1071.	0000	15		337200
AII	94	2	0088	0000	26	77 717	59 45.2'N	23 11.6'W	9	183.93	0013	2244.	125.	0000	15		131000
AII	94	2	0089	0000	15	77 718	59 0.9'N	24 19.6'W	6	183.94	0014	2533.	1110.	0000	15		317200
AII	94	2	0089	0000	26	77 718	59 0.9'N	24 19.6'W	6	183.94	0014	2533.	115.	0000	15		131000

MARSDEN SQUARE #215

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	32	1	0011	0000	13	67 6 7	55 44.0'N	15 55.6'E	3	215.55	0007	60.	75.	0000	20		225900
AII	32	2	0038	0000	13	67 617	55 29.1'N	15 54.0'E	3	215.55	0018	84.	341.	0000	20		281400
AII	32	1	0004	0000	13	67 6 6	55 48.6'N	16 21.7'E	3	215.56	0002	49.	39.	0000	20		284900
AII	32	1	0006	0000	13	67 6 6	55 43.5'N	16 38.0'E	3	215.56	0004	51.	139.	0000	20		181900
AII	32	1	0007	0000	13	67 6 6	55 31.3'N	16 38.0'E	3	215.56	0005	42.	68.	0000	20		223400
AII	32	1	0008	0000	13	67 6 6	55 38.0'N	16 25.0'E	3	215.56	0006	60.	202.	0000	20		181900
AII	32	1	0012	0000	13	67 6 7	55 43.1'N	16 37.3'E	3	215.56	0008	49.	282.	0000	20		181400
AII	32	1	0013	0000	13	67 6 7	55 37.2'N	16 25.3'E	3	215.56	0009	49.	296.	0000	20		181400
AII	32	2	0032	0000	13	67 617	55 8.2'N	16 4.0'E	3	215.56	0016	84.	209.	0000	20		162500
AII	32	2	0037	0000	13	67 617	55 21.0'N	16 4.2'E	3	215.56	0017	86.	393.	0000	20		181900
AII	32	1	0017	0000	13	67 613	55 28.4'N	18 43.1'E	3	215.58	0010	79.	306.	0000	20		122900
AII	32	1	0018	0000	13	67 613	55 21.5'N	18 54.2'E	3	215.58	0011	86.	124.	0000	20		224900
AII	32	2	0020	0000	13	67 613	55 21.9'N	18 4.2'E	3	215.58	0012	82.	151.	0000	20		286400
AII	32	2	0021	0000	13	67 613	55 28.6'N	18 17.3'E	3	215.58	0013	82.	214.	0000	20		281400
AII	32	2	0028	0000	13	67 614	55 25.2'N	18 4.8'E	3	215.58	0014	88.	182.	0000	20		281400
AII	32	2	0029	0000	13	67 616	55 33.0'N	18 28.1'E	3	215.58	0015	86.	43.	0000	20		286900

MARSDEN SQUARE #216

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	54	6	0019	0000	19	76 512	58 26.0'N	0 2.8'E	1	216.80	0005	136.	39.	0000	20		3266
KNR	54	6	0022	0000	19	76 512	58 26.7'N	0 19.1'E	1	216.80	0006	138.	27.	0000	20		3269
KNR	54	6	0032	0000	19	76 514	58 50.3'N	0 41.4'E	1	216.80	0008	140.	31.	0000	20		8369
KNR	54	6	0059	0000	19	76 519	58 25.5'N	1 40.0'E	1	216.81	0013	141.	26.	0000	20		8369
KNR	54	6	0030	0000	19	76 513	58 54.9'N	4 8.2'E	1	216.84	0007	284.	37.	0000	20		3269
KNR	54	6	0044	0000	19	76 515	59 5.8'N	0 8.9'E	1	216.90	0009	134.	24.	0000	20		8469
KNR	54	6	0076	0000	19	76 526	59 30.6'N	0 20.0'E	1	216.90	0018	121.	13.	0000	20		8859

MARSDEN SQUARE #218

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	54	6	0096	0000	19	76 6 1	60 8.6'N	15 1.4'W	1	218.05	0025	1295.	22.	0000	13		3662
KNR	54	6	0098	0000	19	76 6 2	60 59.7'N	16 5.5'W	1	218.06	0026	2435.	23.	0000	5		3939
KNR	54	6	0101	0000	19	76 6 3	61 55.7'N	17 13.2'W	1	218.17	0028	2242.	36.	0000	5		3669
AII	94	1	0052	0000	15	77 7 5	61 44.2'N	18 40.9'W	6	218.18	0007	2173.	814.	0000	5		000000
AII	94	1	0052	0000	26	77 7 5	61 44.2'N	18 40.9'W	6	218.18	0007	2173.	148.	0000	5		161200
AII	94	1	0056	0000	19	77 7 5	61 44.0'N	18 39.0'W	6	218.18	0006	2175.	33.	0000	5		446900
AII	94	1	0057	0000	15	77 7 5	61 53.2'N	18 48.1'W	6	218.18	0008	2088.	481.	0000	5		176100
AII	94	1	0060	0000	19	77 7 5	61 50.3'N	18 47.9'W	9	218.18	0007	2128.	52.	0000	5		396900
AII	94	1	0073	0000	19	77 7 8	61 31.0'N	18 46.5'W	6	218.18	0008	2203.	68.	0000	5		486900
AII	94	1	0077	0000	19	77 7 9	61 41.0'N	18 25.1'W	6	218.18	0009	2205.	64.	0000	5		496200

MARSDEN SQUARE #218

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	94	1	0078	0000	19	77 7 9	61 40.5'N	18 27.2'W	6	218.18	0010	2248.	69.	0000	5	486900	
AII	94	1	0079	0000	19	77 7 9	61 41.2'N	18 39.0'W	6	218.18	0011	2154.	70.	0000	5	486200	
AII	94	1	0080	0000	19	77 7 9	61 45.6'N	18 37.0'W	6	218.18	0012	2133.	70.	0000	5	486900	
AII	94	1	0069	0000	15	77 7 7	61 32.0'N	19 21.9'W	6	218.19	0011	2205.	1084.	0000	5	273200	
AII	94	1	0069	0000	26	77 7 7	61 32.0'N	19 21.9'W	6	218.19	0011	2205.	64.	0000	5	281200	
AII	94	1	0071	0000	15	77 7 7	61 28.7'N	19 24.4'W	6	218.19	0012	2295.	1147.	0000	5	273000	
AII	94	1	0071	0000	26	77 7 7	61 28.7'N	19 24.4'W	6	218.19	0012	2295.	141.	0000	5	371200	
AII	94	1	0035	0000	15	77 7 2	62 5.9'N	16 37.3'W	6	218.26	0003	2199.	1010.	0000	5	276100	
AII	94	1	0035	0000	26	77 7 2	62 5.9'N	16 37.3'W	6	218.26	0003	2199.	67.	0000	5	281200	
AII	94	1	0024	0000	19	77 628	62 29.6'N	17 59.3'W	9	218.27	0003	1509.	21.	0000	5	486900	
AII	94	1	0027	0000	15	77 630	62 24.0'N	17 46.7'W	6	218.27	0002	1764.	970.	0000	5	276100	
AII	94	1	0027	0000	26	77 630	62 24.0'N	17 46.7'W	6	218.27	0002	1764.	12.	0000	5	270000	
AII	94	1	0041	0000	15	77 7 4	62 18.4'N	17 8.6'W	9	218.27	0004	2114.	1170.	0000	5	286100	
AII	94	1	0041	0000	26	77 7 4	62 18.4'N	17 8.6'W	9	218.27	0004	2114.	136.	0000	5	281200	
AII	94	1	0043	0000	19	77 7 4	62 22.5'N	17 35.8'W	6	218.27	0004	1839.	59.	0000	5	486900	
AII	94	1	0045	0000	15	77 7 4	62 28.5'N	17 54.1'W	6	218.27	0005	1596.	1132.	0000	5	286000	
AII	94	1	0045	0000	26	77 7 4	62 28.5'N	17 54.1'W	6	218.27	0005	1596.	155.	0000	5	281100	
AII	94	1	0048	0000	19	77 7 4	62 26.3'N	17 50.3'W	9	218.27	0005	1687.	10.	0000	5	000000	
AII	94	1	0086	0000	19	77 711	62 17.6'N	17 25.1'W	9	218.27	0015	1998.	69.	0000	5	386200	
AII	94	1	0016	0000	15	77 627	62 34.6'N	18 14.0'W	6	218.28	0001	1177.	845.	0000	3	188000	
AII	94	1	0016	0000	26	77 627	62 34.6'N	18 14.0'W	6	218.28	0001	1177.	18.	0000	3	270200	
AII	94	1	0021	0000	19	77 627	62 30.4'N	18 6.4'W	1	218.28	0002	1391.	0.	0000	3	000000	
AII	94	1	0050	0000	15	77 7 4	62 31.2'N	18 5.5'W	6	218.28	0006	1369.	1138.	0000	3	283100	
AII	94	1	0082	0000	19	77 710	62 33.2'N	18 14.3'W	9	218.28	0013	1198.	0.	0000	3	000000	
AII	94	1	0083	0000	19	77 710	62 31.8'N	18 2.0'W	9	218.28	0014	1409.	0.	0000	3	000000	
AII	94	1	0061	0000	15	77 7 6	62 7.6'N	19 2.5'W	6	218.29	0009	2082.	721.	0000	5	458100	
AII	94	1	0064	0000	15	77 7 6	62 9.9'N	19 19.8'W	6	218.29	0010	1555.	1128.	0000	5	273000	
AII	94	1	0064	0000	26	77 7 6	62 9.9'N	19 19.8'W	6	218.29	0010	1555.	9.	0000	5	191000	
KNR	54	6	0100	0000	19	76 6 3	63 0.0'N	14 11.9'W	1	218.34	0027	1526.	50.	0000	3	4839	
BSM	88	9	0000	0000	17	8810 0	67 23.0'N	13 26.0'W	0	218.73	0452	1684.	109.	0000	15	3952	

MARSDEN SQUARE #219

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
KNR	51	3	0021	0000	18	75 811	61 40.4'N	20 31.4'W	11	219.10	0001	2062.	52.	0000	26	096900	
KNR	51	3	0022	0000	18	75 811	61 38.4'N	20 32.8'W	11	219.10	0002	2079.	96.	0000	26	096900	
KNR	51	3	0023	0000	18	75 811	61 38.6'N	20 34.4'W	11	219.10	0003	2034.	77.	0000	26	005900	
BSM	88	9	0000	0000	17	8810 0	62 59.9'N	21 31.8'W	0	219.21	0482	967.	213.	0000	15	3582	
BSM	88	6	0021	0000	17	88 810	65 34.5'N	29 32.0'W	6	219.59	0021	605.	32.	0000	2	2030	
BSM	88	6	0023	0000	17	88 810	65 27.5'N	29 32.1'W	6	219.59	0023	1008.	56.	0000	2	2000	
BSM	88	6	0008	0000	17	88 8 7	66 27.1'N	29 41.0'W	6	219.69	0008	303.	49.	0000	2	8050	

MARSDEN SQUARE #220

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
BSM	88	6	0013	0000	17	88 810	65 24.7'N	30 51.3'W	6	220.50	0013	650.	42.	0000	2	8730	
BSM	88	6	0014	0000	17	88 810	65 31.2'N	30 59.6'W	6	220.50	0014	382.	31.	0000	2	8700	
BSM	88	6	0015	0000	17	88 810	65 25.4'N	30 59.5'W	6	220.50	0015	607.	15.	0000	2	2730	
BSM	88	6	0016	0000	17	88 810	65 22.7'N	30 59.4'W	6	220.50	0016	807.	86.	0000	2	2000	
BSM	88	6	0017	0000	17	88 810	65 19.1'N	30 59.6'W	6	220.50	017A	1011.	99.	0000	2	2803	

MARSDEN SQUARE #220

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
BSM	88	6	0018	0000	17	88 810	65 22.5'N	30 27.2'W	6	220.50	0018	805.	61.	0000	2	2000	
BSM	88	6	0009	0000	17	88 8 7	66 23.2'N	30 33.8'W	6	220.60	0009	459.	22.	0000	2	2050	
BSM	88	6	0010	0000	17	88 8 7	66 11.8'N	30 39.3'W	6	220.60	010B	504.	128.	0000	2	2802	
BSM	88	6	0011	0000	17	88 8 7	66 18.0'N	30 58.8'W	6	220.60	011A	510.	14.	0000	2	2850	
BSM	88	6	0001	0000	17	88 8 5	66 59.3'N	31 50.6'W	6	220.61	0001	250.	5.	0000	2	8250	
BSM	88	6	0012	0000	17	88 8 7	66 13.7'N	31 26.5'W	6	220.61	0012	400.	39.	0000	2	8200	
BSM	88	6	0005	0000	17	88 8 5	67 7.6'N	30 54.2'W	6	220.70	005C	713.	154.	0000	2	8280	
BSM	88	6	0006	0000	17	88 8 5	67 4.7'N	30 53.7'W	6	220.70	0006	676.	209.	0000	2	8220	
BSM	88	6	0007	0000	17	88 8 5	67 24.3'N	30 52.3'W	6	220.70	0007	696.	185.	0000	2	2802	
BSM	88	6	0002	0000	17	88 8 5	67 14.8'N	31 31.6'W	6	220.71	0002	564.	52.	0000	2	2808	
BSM	88	6	0003	0000	17	88 8 5	67 24.6'N	31 4.0'W	6	220.71	0003	631.	142.	0000	2	2808	
BSM	88	6	0004	0000	17	88 8 5	67 21.9'N	31 4.3'W	6	220.71	0004	633.	107.	0000	2	2808	

MARSDEN SQUARE #252

KNR	54	6	0048	0000	19	76 516	60 21.3'N	1 58.7'E	1	252.01	0010	101.	20.	0000	20	8855	
KNR	54	6	0072	0000	19	76 524	62 20.9'N	0 53.7'E	1	252.20	0017	628.	39.	0000	7	8239	
KNR	54	6	0070	0000	19	76 523	63 49.5'N	0 50.9'E	1	252.30	0016	2217.	41.	0000	7	3322	

MARSDEN SQUARE #300

CHN	99	3	0036	0000	15	70 6 1	8 44.5'S	0 11.6'W	1	300.80	0026	4914.	1190.	0000	11	302254	
CHN	99	3	0036	0000	26	70 6 1	8 44.5'S	0 11.6'W	1	300.80	0026	4914.	191.	0000	11	303254	
CHN	99	3	0034	0000	15	70 531	8 44.2'S	1 52.5'W	9	300.81	0025	4896.	1076.	0000	11	353254	
CHN	99	3	0034	0000	26	70 531	8 44.2'S	1 52.5'W	9	300.81	0025	4896.	176.	0000	11	054954	
CHN	99	3	0033	0000	15	70 530	8 41.8'S	3 32.5'W	1	300.83	0024	4414.	1066.	0000	10	393254	
CHN	99	3	0032	0000	15	70 530	8 43.0'S	4 58.7'W	1	300.84	0023	4404.	837.	0000	15	373854	
CHN	99	3	0031	0000	15	70 529	8 42.8'S	6 25.5'W	1	300.86	0022	4660.	509.	0000	15	133954	
CHN	99	3	0030	0000	15	70 529	8 37.8'S	8 5.8'W	9	300.88	0021	4075.	926.	0000	15	332954	
CHN	99	3	0029	0000	15	70 528	8 40.0'S	9 25.0'W	1	300.89	0020	3733.	1129.	0000	15	332954	

MARSDEN SQUARE #301

AII	20	1	0006	0000	13	66 311	0 7.0'S	17 34.5'W	0	301.07	0006	6380.	0.	0205	19		
AII	20	1	0007	0000	15	66 311	0 14.0'S	18 35.0'W	0	301.08	0007	7720.	1054.	0000	19		
AII	20	1	0009	0000	18	66 312	0 16.0'S	18 33.5'W	0	301.08	0009	7505.	108.	0000	19		
AII	20	1	0010	0000	18	663012	0 13.5'S	18 34.5'W	0	301.08	0010	7590.	104.	0000	19		
AII	20	1	0011	0000	18	66 312	0 11.2'S	18 35.2'W	0	301.08	0011	6400.	81.	0000	19		
AII	20	1	0012	0000	15	66 313	0 5.5'S	18 34.5'W	0	301.08	0012	4750.	993.	0076	19		
CHN	17	1	0007	0000	15	61 428	0 16.4'S	18 31.0'W	0	301.08	0007	7610.	749.	0000	15		
CHN	99	3	0012	0000	13	70 519	0 9.0'S	19 7.9'W	9	301.09	0001	4195.	31.	0000	19	333900	
CHN	99	3	0014	0000	15	70 520	2 34.9'S	19 5.2'W	1	301.29	0011	5457.	1097.	0000	19	143254	
CHN	99	3	0014	0000	26	70 520	2 34.9'S	19 5.2'W	1	301.29	0011	5457.	185.	0000	19	372954	
CHN	99	3	0015	0000	15	70 521	4 36.0'S	19 3.0'W	1	301.49	0012	4353.	1095.	0000	15	332254	
CHN	99	3	0015	0000	26	70 521	4 36.0'S	19 3.0'W	1	301.49	0012	4353.	188.	0000	15	335954	
CHN	99	3	0023	0000	15	70 525	6 46.7'S	12 47.0'W	1	301.62	0016	3286.	858.	0000	15	372954	
CHN	99	3	0016	0000	15	70 522	6 39.1'S	18 55.3'W	9	301.68	0013	4762.	1184.	0000	15	032240	

MARSDEN SQUARE #301

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	99	3	0016	0000	26	70 522	6 39.1'S	18 55.3'W	9	301.68	0013	4762.	186.	0000	15		334240
CHN	99	3	0024	0000	15	70 526	7 20.1'S	14 5.0'W	4	301.74	0017	3722.	829.	0000	19		372154
CHN	99	3	0028	0000	15	70 528	8 39.7'S	10 58.0'W	9	301.80	0019	3462.	796.	0000	15		372954
CHN	99	3	0026	0000	15	70 527	8 23.0'S	13 3.6'W	4	301.83	0018	3116.	856.	0000	14		372954
CHN	99	3	0021	0000	15	70 524	8 10.3'S	15 26.9'W	9	301.85	0015	3652.	911.	0000	15		332954
CHN	99	3	0021	0000	26	70 524	8 10.3'S	15 26.9'W	9	301.85	0015	3652.	81.	0000	15		335954
CHN	99	3	0019	0000	15	70 523	8 15.0'S	17 40.0'W	1	301.87	0014	4029.	1037.	0000	15		373154
CHN	99	3	0019	0000	26	70 523	8 15.0'S	17 40.0'W	1	301.87	0014	4029.	84.	0000	15		332954

MARSDEN SQUARE #308

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	54	2	0053	0000	15	691129	2 45.0'S	86 46.0'W	0	308.26	0024	2805.	818.	0000	15		356800
AII	54	2	0053	0000	26	691129	2 45.0'S	86 46.0'W	0	308.26	0024	2805.	158.	0000	15		356200
AII	54	2	0055	0000	15	691130	4 16.2'S	85 53.8'W	9	308.45	0025	3225.	934.	0000	15		356800
AII	54	2	0055	0000	26	691130	4 16.2'S	85 53.8'W	9	308.45	0025	3225.	134.	0000	15		356200
AII	54	2	0003	0000	15	6911 5	5 37.4'S	87 21.3'W	9	308.57	0002	3735.	906.	0000	11		356200
AII	54	2	0003	0000	26	6911 5	5 37.4'S	87 21.3'W	9	308.57	0002	3735.	89.	0000	11		356200
AII	54	2	0005	0000	15	6911 6	7 24.6'S	89 10.1'W	9	308.79	0003	4165.	122.	0000	11		696900
AII	54	2	0005	0000	26	6911 6	7 24.6'S	89 10.1'W	9	308.79	0003	4165.	140.	0000	11		356900

MARSDEN SQUARE #309

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	54	2	0052	0000	15	691126	2 23.5'S	90 5.2'W	9	309.20	0023	3230.	1046.	0000	15		356900
AII	54	2	0052	0000	26	691126	2 23.5'S	90 5.2'W	9	309.20	0023	3230.	67.	0000	15		356900
AII	54	2	0050	0000	15	691125	5 32.5'S	91 24.3'W	9	309.51	0022	4075.	1020.	0000	15		356800
AII	54	2	0050	0000	26	691125	5 32.5'S	91 24.3'W	9	309.51	0022	4075.	160.	0000	15		356200
AII	54	2	0042	0000	15	691122	5 59.8'S	98 29.8'W	9	309.58	0019	3659.	961.	0000	15		356900
AII	54	2	0042	0000	26	691122	5 59.8'S	98 29.8'W	9	309.58	0019	3659.	127.	0000	15		356900
AII	54	2	0047	0000	15	691124	6 46.9'S	93 40.5'W	9	309.63	0021	3985.	832.	0000	15		356200
AII	54	2	0047	0000	26	691124	6 46.9'S	93 40.5'W	9	309.63	0021	3985.	155.	0000	15		356200
AII	108	1	0007	0000	15	81 417	6 6.8'S	93 7.4'W	9	309.63	0003	4206.	901.	0000	11		0022
AII	108	1	0007	0000	26	81 417	6 6.8'S	93 7.4'W	9	309.63	0003	4206.	139.	0000	11		5027
AII	54	2	0045	0000	15	691123	6 15.7'S	96 32.5'W	9	309.69	0020	3785.	966.	0000	15		032200
AII	54	2	0045	0000	26	691123	6 15.7'S	96 32.5'W	9	309.69	0020	3785.	145.	0000	15		032200
CHN	100	11	0141	0000	15	711023	8 34.4'S	98 17.7'W	9	309.88	0095	4038.	627.	0000	10		032200
CHN	100	11	0141	0000	26	711023	8 34.4'S	98 17.7'W	9	309.88	0095	4038.	135.	0000	10		356200
AII	54	2	0012	0000	15	691110	8 49.0'S	99 30.0'W	1	309.89	0007	4375.	799.	0000	15		303200
AII	54	2	0012	0000	26	691110	8 49.0'S	99 30.0'W	1	309.89	0007	4375.	140.	0000	15		536900
AII	54	2	0007	0000	15	6911 7	9 59.0'S	91 13.0'W	1	309.91	0004	4115.	428.	0000	11		332900
AII	54	2	0007	0000	26	6911 7	9 59.0'S	91 13.0'W	1	309.91	0004	4115.	85.	0000	11		353900
AII	54	2	0009	0000	15	6911 8	9 31.3'S	94 12.6'W	9	309.94	0005	3960.	771.	0000	13		356200
AII	54	2	0009	0000	26	6911 8	9 31.3'S	94 12.6'W	9	309.94	0005	3960.	91.	0000	13		356200
AII	54	2	0011	0000	15	6911 9	9 19.0'S	97 36.2'W	9	309.97	0006	4287.	881.	0000	15		042900
AII	54	2	0011	0000	26	6911 9	9 19.0'S	97 36.2'W	9	309.97	0006	4287.	140.	0000	15		356200

MARSDEN SQUARE #310

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
KNR	73	4	0004	0000	15	78 415	0 22.4'S	106 10.7'W	9	310.06	0003	3606.	843.	0000	11	356200
KNR	73	4	0004	0000	26	78 415	0 22.4'S	106 10.7'W	9	310.06	0003	3606.	128.	0000	11	333200
AII	54	2	0039	0000	15	691121	5 38.3'S	101 24.8'W	9	310.51	0018	3755.	814.	0000	14	356200
AII	54	2	0039	0000	26	691121	5 38.3'S	101 24.8'W	9	310.51	0018	3755.	139.	0000	14	356900
AII	54	2	0037	0000	15	691120	5 30.6'S	102 43.2'W	1	310.52	0017	3835.	837.	0000	15	032200
AII	54	2	0037	0000	26	691120	5 30.6'S	102 43.2'W	1	310.52	0017	3835.	170.	0000	15	333200
CHN	100	11	0146	0000	15	711025	5 53.6'S	102 38.8'W	1	310.52	0100	4440.	809.	0000	10	536200
CHN	100	11	0146	0000	26	711025	5 53.6'S	102 38.8'W	1	310.52	0100	4440.	108.	0000	10	536200
AII	54	2	0025	0000	15	691116	5 44.1'S	107 27.2'W	9	310.57	0013	3225.	591.	0000	15	032200
AII	54	2	0025	0000	26	691116	5 44.1'S	107 27.2'W	9	310.57	0013	3255.	162.	0000	15	032200
AII	54	2	0029	0000	15	691117	5 43.9'S	107 34.1'W	9	310.57	0014	3190.	858.	0000	14	032200
AII	54	2	0029	0000	26	691117	5 43.9'S	107 34.1'W	9	310.57	0014	3190.	90.	0000	14	356200
AII	54	2	0022	0000	15	691114	5 19.7'S	108 48.3'W	9	310.58	0011	3600.	606.	0000	14	032900
AII	54	2	0022	0000	26	691114	5 19.7'S	108 48.3'W	9	310.58	0011	3600.	135.	0000	14	032900
AII	54	2	0024	0000	15	691115	5 25.9'S	108 15.1'W	9	310.58	0012	3660.	735.	0000	15	032200
AII	54	2	0024	0000	26	691115	5 25.9'S	108 15.1'W	9	310.58	0012	3660.	164.	0000	15	032200
AII	54	2	0031	0000	15	691118	6 24.2'S	105 47.3'W	9	310.65	0015	3497.	741.	0000	11	032200
AII	54	2	0031	0000	26	691118	6 24.2'S	105 47.3'W	9	310.65	0015	3497.	70.	0000	11	032200
AII	54	2	0035	0000	15	691119	6 19.0'S	105 39.7'W	9	310.65	0016	3341.	916.	0000	15	032200
AII	54	2	0035	0000	26	691119	6 19.0'S	105 39.7'W	9	310.65	0016	3341.	144.	0000	15	032900
CHN	100	11	0142	0000	15	711023	7 51.8'S	100 41.2'W	1	310.70	0096	4201.	833.	0000	10	432900
CHN	100	11	0142	0000	26	711023	7 51.8'S	100 41.2'W	1	310.70	0096	4201.	67.	0000	10	103900
CHN	100	11	0143	0000	15	711024	7 44.8'S	101 24.6'W	1	310.71	0097	4649.	862.	0000	10	353800
CHN	100	11	0143	0000	26	711024	7 44.8'S	101 24.6'W	1	310.71	0097	4649.	110.	0000	10	666900
CHN	100	11	0144	0000	15	711024	7 37.8'S	101 55.4'W	1	310.71	0098	3743.	678.	0000	10	302200
CHN	100	11	0144	0000	26	711024	7 37.8'S	101 55.4'W	1	310.71	0098	3743.	54.	0000	10	033900
CHN	100	11	0145	0000	15	711024	7 17.8'S	102 58.2'W	9	310.72	0099	4400.	748.	0000	10	103200
CHN	100	11	0145	0000	26	711024	7 17.8'S	102 58.2'W	9	310.72	0099	4400.	102.	0000	10	536200
AII	54	2	0018	0000	15	691112	7 58.5'S	106 32.5'W	9	310.76	0010	3405.	815.	0000	14	356200
AII	54	2	0018	0000	26	691112	7 58.5'S	106 32.5'W	9	310.76	0010	3405.	143.	0000	14	356900
AII	54	2	0020	0000	13	691113	7 26.0'S	108 15.0'W	9	310.78	0001	3170.	107.	0000	14	332900
AII	54	2	0014	0000	15	691111	8 26.2'S	102 12.0'W	9	310.82	0008	3984.	709.	0000	15	433900
AII	54	2	0014	0000	26	691111	8 26.2'S	102 12.0'W	9	310.82	0008	3984.	129.	0000	15	333900
AII	54	2	0016	0000	15	691112	8 7.4'S	104 18.8'W	9	310.84	0009	3560.	230.	0000	15	332400
AII	54	2	0016	0000	26	691112	8 7.4'S	104 18.8'W	9	310.84	0009	3560.	140.	0000	15	335900

MARSDEN SQUARE #313

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
KNR	73	4	0025	0000	15	78 430	0 51.3'S	134 3.5'W	9	313.04	0010	4329.	1089.	0000	19	356200
KNR	73	4	0025	0000	26	78 430	0 51.3'S	134 3.5'W	9	313.04	0010	4329.	122.	0000	19	
KNR	73	4	0022	0000	15	78 428	1 24.2'S	131 28.3'W	9	313.11	0009	4394.	632.	0000	19	336200
KNR	73	4	0022	0000	26	78 428	1 24.2'S	131 28.3'W	9	313.11	0009	4394.	126.	0000	19	336200

MARSDEN SQUARE #316

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	100	10	0129	0000	15	71 918	7 36.3'S	167 57.0'W	1	316.77	0087	4430.	712.	0000	26	372300
CHN	100	10	0129	0000	26	71 918	7 36.3'S	167 57.0'W	1	316.77	0087	4430.	144.	0000	26	346900
CHN	100	10	0124	0000	15	71 916	7 19.0'S	168 21.6'W	1	316.78	0082	5742.	1606.	0000	26	363100

MARSDEN SQUARE #316

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	100	10	0124	0000	26	71 916	7 19.0'S	168 21.6'W	1	316.78	0082	5742.	84.	0000	26	115900	
CHN	100	10	0126	0000	15	71 916	7 25.8'S	168 32.0'W	1	316.78	0084	5508.	659.	0000	26	116300	
CHN	100	10	0126	0000	26	71 916	7 25.8'S	168 32.0'W	1	316.78	0084	5508.	74.	0000	26	166300	
CHN	100	10	0127	0000	15	71 917	7 21.2'S	168 31.2'W	1	316.78	0085	5457.	743.	0000	26	113900	
CHN	100	10	0128	0000	15	71 917	7 23.5'S	168 41.3'W	1	316.78	0086	5495.	0.	0000	26	000000	
CHN	100	10	0131	0000	15	71 918	7 36.7'S	168 10.6'W	9	316.78	0088	5289.	1958.	0000	26	633900	
CHN	100	10	0131	0000	26	71 918	7 36.7'S	168 10.6'W	9	316.78	0088	5289.	135.	0000	26	152900	
CHN	100	10	0132	0000	15	71 918	7 27.2'S	168 6.7'W	9	316.78	0089	5276.	806.	0000	26	166300	
CHN	100	10	0132	0000	26	71 918	7 27.2'S	168 6.7'W	9	316.78	0089	5276.	154.	0000	26	116300	
CHN	100	10	0106	0000	14	71 910	8 3.7'S	168 34.1'W	1	316.88	0072	5117.	0.	0000	26	000000	
CHN	100	10	0107	0000	15	71 911	8 3.0'S	168 34.5'W	1	316.88	0073	5159.	34.	0000	26	885300	
CHN	100	10	0109	0000	15	71 911	8 28.2'S	168 43.8'W	1	316.88	0074	4626.	462.	0000	26	102300	
CHN	100	10	0109	0000	26	71 911	8 28.2'S	168 43.8'W	1	316.88	0074	4626.	120.	0000	26	102300	
CHN	100	10	0110	0000	15	71 912	8 37.1'S	168 35.7'W	1	316.88	0075	4576.	255.	0000	26	312300	
CHN	100	10	0110	0000	26	71 912	8 37.1'S	168 35.7'W	1	316.88	0075	4576.	121.	0000	26	312900	
CHN	100	10	0111	0000	15	71 912	8 40.5'S	168 55.1'W	1	316.88	0076	5026.	549.	0000	26	132300	
CHN	100	10	0111	0000	26	71 912	8 40.5'S	168 55.1'W	1	316.88	0076	5026.	112.	0000	26	132300	
CHN	100	10	0113	0000	15	71 912	8 22.2'S	168 51.7'W	1	316.88	0077	5162.	354.	0000	26	132300	
CHN	100	10	0113	0000	26	71 912	8 22.2'S	168 51.7'W	1	316.88	0077	5162.	85.	0000	26	132300	
CHN	100	10	0114	0000	15	71 912	8 25.7'S	168 58.7'W	9	316.88	0078	4550.	521.	0000	26	342300	
CHN	100	10	0114	0000	26	71 912	8 25.7'S	168 58.7'W	9	316.88	0078	4550.	132.	0000	26	342300	
CHN	100	10	0116	0000	15	71 913	8 20.3'S	168 46.0'W	9	316.88	0079	5123.	1118.	0000	26	115300	
CHN	100	10	0116	0000	26	71 913	8 20.3'S	168 46.0'W	9	316.88	0079	5123.	150.	0000	26	165300	
CHN	100	10	0117	0000	15	71 913	8 18.7'S	168 33.3'W	9	316.88	0080	4732.	855.	0000	26	132300	
CHN	100	10	0117	0000	26	71 913	8 18.7'S	168 33.3'W	9	316.88	0080	4732.	117.	0000	26	132300	
CHN	100	10	0118	0000	15	71 914	8 16.0'S	168 44.1'W	9	316.88	0081	5007.	817.	0000	26	112300	
CHN	100	10	0118	0000	26	71 914	8 16.0'S	168 44.1'W	9	316.88	0081	5007.	119.	0000	26	143300	
CHN	100	10	0123	0000	14	71 916	8 15.7'S	168 27.6'W	9	316.88	0083	5768.	84.	0000	26	335900	

MARSDEN SQUARE #322

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	93	12	0046	0000	15	76 923	2 38.4'S	130 37.0'E	9	322.20	0028	1879.	623.	0000	17	006000	
AII	93	12	0046	0000	26	76 923	2 38.4'S	130 37.0'E	9	322.20	0028	1879.	136.	0000	17	001000	
AII	93	12	0045	0000	15	76 920	4 39.5'S	131 59.3'E	9	322.41	0027	685.	732.	0000	9	347000	
AII	93	12	0043	0000	15	76 917	4 53.0'S	133 50.0'E	9	322.43	0026	2464.	569.	0000	5	136000	
AII	93	12	0043	0000	26	76 917	4 53.0'S	133 50.0'E	9	322.43	0026	2464.	53.	0000	5	001000	
AII	93	12	0040	0000	15	76 910	5 0.8'S	130 56.4'E	9	322.50	0023	7054.	1004.	0000	17	183000	
AII	93	12	0041	0000	15	76 911	6 41.7'S	130 6.7'E	9	322.60	0024	5467.	763.	0000	17	183000	
AII	93	12	0041	0000	26	76 911	6 41.7'S	130 6.7'E	9	322.60	0024	5467.	22.	0000	17	180000	
AII	93	12	0042	0000	13	76 914	7 27.9'S	132 8.7'E	9	322.72	0025	1477.	20.	0000	17	331000	

MARSDEN SQUARE #323

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	93	12	0039	0000	15	76 9 9	3 39.8'S	129 50.5'E	9	323.39	0022	3926.	709.	0000	17	184000	
AII	93	12	0039	0000	26	76 9 9	3 39.8'S	129 50.5'E	9	323.39	0022	3926.	54.	0000	17	184000	
AII	93	13	0048	0000	15	761014	5 35.1'S	129 37.3'E	9	323.59	0030	2372.	706.	0000	21	137000	
AII	93	13	0048	0000	26	761014	5 35.1'S	129 37.3'E	9	323.59	0030	2372.	110.	0000	21	167000	
AII	93	12	0038	0000	15	76 9 5	9 5.5'S	127 51.4'E	9	323.97	0021	3282.	812.	0000	17	330000	

MARSDEN SQUARE #323

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	93	12	0038	0000	26	76 9 5	9 5.5'S	127 51.4'E	9	323.97	0021	3282.	85.	0000	17		330000

MARSDEN SQUARE #325

AII	93	14	0063	0000	15	761120	8 31.6'S	108 39.6'E	9	325.88	0039	3563.	820.	0000	17		311000
AII	93	14	0063	0000	26	761120	8 31.6'S	108 39.6'E	9	325.88	0039	3563.	108.	0000	17		311000

MARSDEN SQUARE #329

CHN	43	1	0068	0000	15	64 528	1 2.5'S	61 12.0'E	1	329.11	0022	4565.	306.	0000	15		344941
CHN	43	1	0053	0000	13	64 517	7 16.4'S	60 32.0'E	1	329.70	0018	3791.	114.	0000	10		356941

MARSDEN SQUARE #330

CHN	43	1	0010	0000	13	64 4 8	0 22.0'S	54 33.0'E	1	330.04	0005	4864.	264.	0000	10		302941
CHN	100	4	0048	0000	15	71 420	0 14.5'S	56 3.5'E	1	330.06	0036	4576.	866.	0000	13		073100
CHN	100	4	0048	0000	26	71 420	0 14.5'S	56 3.5'E	1	330.06	0036	4576.	83.	0000	13		302900
AII	93	7	0036	0000	15	76 5 2	1 1.8'S	50 57.1'E	9	330.10	0019	5089.	827.	0000	10		337000
AII	93	7	0036	0000	26	76 5 2	1 1.8'S	50 57.1'E	9	330.10	0019	5089.	105.	0000	10		334200
CHN	43	1	0012	0000	13	64 4 9	1 38.0'S	53 20.0'E	1	330.13	0006	4787.	305.	0000	10		356941
AII	93	7	0037	0000	26	76 5 2	2 1.8'S	50 32.9'E	9	330.20	0020	5080.	156.	0000	10		334200
AII	93	7	0034	0000	15	76 5 1	2 3.8'S	52 23.9'E	9	330.22	0017	5115.	944.	0000	10		334000
AII	93	7	0034	0000	26	76 5 1	2 3.8'S	52 23.9'E	9	330.22	0017	5115.	138.	0000	10		334000
CHN	43	1	0015	0000	13	64 411	2 55.0'S	55 43.0'E	1	330.25	0008	3697.	301.	0000	10		335941
AII	93	7	0032	0000	15	76 418	7 16.5'S	50 8.9'E	9	330.70	0015	4444.	1123.	0000	10		314200
AII	93	7	0032	0000	26	76 418	7 16.5'S	50 8.9'E	9	330.70	0015	4444.	125.	0000	10		306000
AII	93	7	0026	0000	15	76 415	9 26.5'S	51 57.7'E	9	330.91	0009	4116.	1034.	0000	26		006200
AII	93	7	0026	0000	26	76 415	9 26.5'S	51 57.7'E	9	330.91	0009	4116.	113.	0000	26		006200
AII	93	7	0023	0000	15	76 414	9 28.5'S	52 23.8'E	9	330.92	0006	4196.	554.	0000	26		143200
AII	93	7	0023	0000	26	76 414	9 28.5'S	52 23.8'E	9	330.92	0006	4196.	108.	0000	26		007200
AII	93	7	0024	0000	15	76 414	9 33.2'S	52 31.5'E	9	330.92	0007	3726.	1180.	0000	26		333000
AII	93	7	0024	0000	26	76 414	9 33.2'S	52 31.5'E	9	330.92	0007	3726.	96.	0000	26		332000
AII	93	7	0025	0000	15	76 414	9 29.2'S	52 28.6'E	9	330.92	0008	3888.	1080.	0000	26		136000
AII	93	7	0025	0000	26	76 414	9 29.2'S	52 28.6'E	9	330.92	0008	3888.	104.	0000	26		332200
AII	93	7	0027	0000	15	76 415	9 24.8'S	52 1.5'E	9	330.92	0010	4129.	972.	0000	10		307000
AII	93	7	0027	0000	26	76 415	9 24.8'S	52 1.5'E	9	330.92	0010	4129.	89.	0000	10		001000
AII	93	7	0028	0000	15	76 415	9 28.4'S	52 9.9'E	9	330.92	0011	4154.	439.	0000	10		434200
AII	93	7	0028	0000	26	76 415	9 28.4'S	52 9.9'E	9	330.92	0011	4154.	85.	0000	10		004200
AII	93	7	0029	0000	15	76 416	9 30.7'S	52 26.3'E	9	330.92	0012	4148.	729.	0000	26		112000
AII	93	7	0029	0000	26	76 416	9 30.7'S	52 26.3'E	9	330.92	0012	4148.	125.	0000	26		004200
AII	93	7	0030	0000	15	76 416	9 32.5'S	52 28.6'E	9	330.92	0013	3975.	846.	0000	11		136200
AII	93	7	0030	0000	26	76 416	9 32.5'S	52 28.6'E	9	330.92	0013	3975.	112.	0000	11		337200
AII	93	7	0031	0000	15	76 417	9 29.9'S	52 22.9'E	9	330.92	0014	4471.	839.	0000	26		316000
AII	93	7	0031	0000	26	76 417	9 29.9'S	52 22.9'E	9	330.92	0014	4471.	94.	0000	26		037300

MARSDEN SQUARE #331

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	99	8	0058	0000	26	701125	3 32.4'S	42 28.3'E	9	331.32	0039	3467.	133.	0000	6	332945
CHN	99	8	0059	0000	15	701126	3 24.0'S	45 0.5'E	9	331.35	0040	4444.	840.	0000	6	356940
CHN	99	8	0059	0000	26	701126	3 24.0'S	45 0.5'E	9	331.35	0040	4444.	178.	0000	6	356940
CHN	99	8	0060	0000	15	701128	3 30.6'S	47 0.4'E	9	331.37	0041	4832.	811.	0000	6	483100
CHN	99	8	0060	0000	26	701128	3 30.6'S	47 0.4'E	9	331.37	0041	4832.	176.	0000	6	303900
CHN	99	8	0061	0000	15	701129	3 26.6'S	49 49.2'E	9	331.39	0042	4890.	996.	0000	6	383100
CHN	99	8	0061	0000	26	701129	3 26.6'S	49 49.2'E	9	331.39	0042	4890.	188.	0000	6	356900
CHN	99	8	0062	0000	15	7012 1	6 46.4'S	48 41.8'E	9	331.68	0043	4425.	959.	0000	10	373200
CHN	99	8	0062	0000	26	7012 1	6 46.4'S	48 41.8'E	9	331.68	0043	4425.	157.	0000	6	143900
AII	93	7	0033	0000	15	76 420	7 15.4'S	49 32.2'E	9	331.79	0016	2490.	275.	0000	10	442000

MARSDEN SQUARE #333

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
ZZZ	72	2	0001	0000	15	72 3 0	0 33.5'S	29 26.4'E	1	333.09	0001	20.	52.	0000	22	502500
ZZZ	72	2	0002	0000	15	72 3 0	0 29.2'S	29 27.8'E	1	333.09	0002	42.	322.	0000	22	565900
ZZZ	72	2	0003	0000	15	72 3 0	0 26.9'S	29 27.5'E	1	333.09	0003	55.	515.	0000	22	527900
ZZZ	72	2	0004	0000	15	72 3 0	0 21.1'S	29 27.0'E	1	333.09	0004	100.	541.	0000	22	551900
ZZZ	72	2	0005	0000	15	72 3 0	0 17.1'S	29 28.3'E	1	333.09	0005	110.	545.	0000	22	551900
ZZZ	71	0	0014	0000	15	71 311	1 56.0'S	28 59.0'E	2	333.18	0010	330.	500.	0000	22	254400
ZZZ	71	0	0004	0000	13	71 3 0	1 51.0'S	29 8.0'E	2	333.19	0002	420.	74.	0000	22	946900
ZZZ	71	0	0005	0000	13	71 3 0	1 53.0'S	29 5.0'E	2	333.19	0003	360.	54.	0000	22	551600
ZZZ	71	0	0007	0000	13	71 3 6	1 59.6'S	29 1.3'E	2	333.19	0004	248.	90.	0000	22	552900
ZZZ	71	0	0010	0000	15	71 310	1 45.8'S	29 10.2'E	2	333.19	0007	473.	350.	0000	22	551600
ZZZ	71	0	0011	0000	15	71 310	1 47.0'S	29 10.0'E	2	333.19	0008	450.	365.	0000	22	582600
ZZZ	71	0	0013	0000	15	71 311	1 48.9'S	29 10.9'E	2	333.19	0009	468.	275.	0000	22	524600
ZZZ	72	1	0003	0000	15	72 3 0	1 47.6'S	29 12.5'E	1	333.19	0002	420.	64.	0000	22	583600
ZZZ	72	1	0004	0000	15	72 3 0	1 47.6'S	29 12.5'E	1	333.19	0003	420.	950.	0000	22	000000
ZZZ	72	1	0010	0000	15	72 3 0	1 47.2'S	29 13.7'E	1	333.19	0005	400.	145.	0000	22	581600
ZZZ	72	1	0011	0000	15	72 3 0	1 45.1'S	29 15.7'E	1	333.19	0006	150.	158.	0000	22	581900
ZZZ	72	1	0012	0000	15	72 3 0	1 47.7'S	29 15.6'E	1	333.19	0007	200.	304.	0000	22	581600
ZZZ	72	1	0019	0000	15	72 3 0	1 37.5'S	29 3.6'E	1	333.19	0010	120.	234.	0000	22	266900
ZZZ	71	0	0001	0000	15	71 3 0	2 9.0'S	28 57.0'E	2	333.28	0001	210.	68.	0000	22	551900
ZZZ	72	1	0013	0000	15	72 3 0	2 25.9'S	28 51.6'E	1	333.28	0008	70.	452.	0000	22	581600
ZZZ	72	1	0015	0000	15	72 3 0	2 17.7'S	28 58.8'E	1	333.28	0009	50.	545.	0000	22	000000
ZZZ	71	0	0009	0000	15	71 3 9	2 14.0'S	29 7.0'E	2	333.29	0006	310.	400.	0000	22	584600
ZZZ	72	1	0001	0000	15	72 3 0	2 17.0'S	29 4.7'E	1	333.29	0001	225.	405.	0000	22	561900

MARSDEN SQUARE #334

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	99	3	0041	0000	15	70 6 5	8 40.4'S	10 26.7'E	9	334.80	0031	3855.	1144.	0000	6	865354
CHN	99	3	0041	0000	26	70 6 5	8 40.4'S	10 26.7'E	9	334.80	0031	3855.	124.	0000	6	242954
CHN	99	3	0042	0000	15	70 6 6	8 40.5'S	11 49.5'E	1	334.81	0032	1945.	633.	0000	6	335954
CHN	99	3	0046	0000	15	70 6 6	8 50.5'S	11 49.2'E	9	334.81	0033	2209.	1019.	0000	6	012954
CHN	99	3	0046	0000	26	70 6 6	8 50.5'S	11 49.2'E	9	334.81	0033	2209.	155.	0000	6	442954

MARSDEN SQUARE #335

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	99	3	0037	0000	15	70 6 2	8 38.0'S	2 4.5'E	9	335.82	0027	5658.	1104.	0000	10	463954	
CHN	99	3	0037	0000	26	70 6 2	8 38.0'S	2 4.5'E	9	335.82	0027	5658.	186.	0000	10	502954	
CHN	99	3	0038	0000	15	70 6 3	8 37.1'S	4 24.8'E	1	335.84	0028	5371.	1175.	0000	10	152254	
CHN	99	3	0038	0000	26	70 6 3	8 37.1'S	4 24.8'E	1	335.84	0028	5371.	188.	0000	10	563254	
CHN	99	3	0039	0000	15	70 6 3	8 42.7'S	6 30.0'E	1	335.86	0029	4938.	1111.	0000	10	281154	
CHN	99	3	0039	0000	26	70 6 3	8 42.7'S	6 30.0'E	1	335.86	0029	4938.	187.	0000	10	612954	
CHN	99	3	0040	0000	15	70 6 4	8 41.0'S	8 31.0'E	1	335.88	0030	4515.	1163.	0000	10	642954	
CHN	99	3	0040	0000	26	70 6 4	8 41.0'S	8 31.0'E	1	335.88	0030	4515.	185.	0000	10	642954	

MARSDEN SQUARE #343

MWV	87	8	0001	0000	19	87 714	10 22.8'S	78 31.2'W	0	343.08	0001	235.	24.	0000	2	3803	
MWV	87	8	0002	0000	15	87 715	11 4.2'S	78 3.1'W	0	343.18	0001	244.	579.	0000	2	5300	
MWV	87	8	0002	0000	19	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	255.	66.	0000	2	5203	
MWV	87	8	0002	0000	19	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	252.	54.	0000	2	5303	
MWV	87	8	0002	0000	17	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	255.	137.	0000	2	5203	
MWV	87	8	0008	0000	19	87 721	14 59.9'S	75 39.2'W	0	343.45	0005	135.	58.	0000	2	5803	
MWV	87	8	0008	0000	19	87 721	14 59.9'S	75 39.2'W	0	343.45	0005	135.	41.	0000	2	5803	
MWV	87	8	0009	0000	15	87 722	14 59.9'S	75 50.5'W	0	343.45	0006	250.	585.	0000	2	5803	
MWV	87	8	0009	0000	19	87 722	14 59.9'S	75 50.5'W	0	343.45	0006	285.	47.	0000	2	5303	
MWV	87	8	TT2E	0000	19	87 726	14 56.6'S	75 36.8'W	0	343.45	0007	110.	76.	0000	2	5803	
MWV	87	8	TT2E	0000	19	87 726	14 56.6'S	75 36.8'W	0	343.45	0009	110.	44.	0000	2	5233	
MWV	87	8	0004	0000	19	87 718	15 6.2'S	75 42.1'W	0	343.55	0003	270.	52.	0000	2	5303	
MWV	87	8	0004	0000	15	87 718	15 6.2'S	75 42.1'W	0	343.55	0002	270.	568.	0000	2	0000	
MWV	87	8	0004	0000	19	87 718	15 6.2'S	75 42.1'W	0	343.55	0003	254.	91.	0000	2	5203	
MWV	87	8	0004	0000	17	87 718	15 6.2'S	75 42.1'W	0	343.55	0006	247.	30.	0000	2	5230	
MWV	87	8	0004	0000	15	87 719	15 6.2'S	75 42.1'W	0	343.55	0003	250.	578.	0000	2	5803	
MWV	87	8	0006	0000	15	87 720	15 11.5'S	75 34.5'W	0	343.55	0004	510.	584.	0000	2	5203	
MWV	87	8	0007	0000	17	87 721	15 13.9'S	75 37.2'W	0	343.55	0007	1092.	24.	0000	2	5283	
MWV	87	8	0007	0000	15	87 721	15 13.9'S	75 37.2'W	0	343.55	0005	850.	152.	0000	2	5200	
MWV	87	8	0010	0000	15	87 723	15 20.0'S	75 50.0'W	0	343.55	0007	2400.	282.	0000	2	5803	
MWV	87	8	0006	0000	19	87 723	15 11.5'S	75 34.5'W	0	343.55	0007	500.	24.	0000	2	5203	
MWV	87	8	0006	0000	19	87 723	15 11.5'S	75 34.5'W	0	343.55	0006	535.	14.	0000	2	5253	
MWV	87	8	0010	0000	15	87 724	15 20.0'S	75 50.0'W	0	343.55	0009	2700.	290.	0000	2	5803	
MWV	87	8	0010	0000	19	87 724	15 20.0'S	75 50.0'W	0	343.55	0008	2650.	18.	0000	2	5253	

MARSDEN SQUARE #344

KNR	73	4	0001	0000	15	78 4 9	10 17.2'S	86 23.5'W	1	344.06	0001	4289.	702.	0000	11	654300	
KNR	73	4	0001	0000	26	78 4 9	10 17.2'S	86 23.5'W	1	344.06	0001	4289.	135.	0000	11	664200	

MARSDEN SQUARE #345

CHN	100	11	0140	0000	15	711022	10 5.0'S	99 41.8'W	9	345.09	0094	4314.	739.	0000	10	142200	
CHN	100	11	0140	0000	26	711022	10 5.0'S	99 41.8'W	9	345.09	0094	4314.	154.	0000	10	115200	

MARSDEN SQUARE #346

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	100	11	0139	0000	15	711022	10 22.1'S	101 2.2'W	9	346.01	0093	4274.	818.	0000	10	312200
CHN	100	11	0139	0000	26	711022	10 22.1'S	101 2.2'W	9	346.01	0093	4274.	148.	0000	10	342200
CHN	100	11	0138	0000	15	711021	10 22.0'S	102 38.0'W	1	346.02	0092	4287.	600.	0000	10	115900
CHN	100	11	0138	0000	26	711021	10 22.0'S	102 38.0'W	1	346.02	0092	4287.	70.	0000	10	115900
CHN	100	11	0137	0000	15	711021	10 23.2'S	103 48.2'W	1	346.03	0091	4228.	767.	0000	10	132900
CHN	100	11	0137	0000	26	711021	10 23.2'S	103 48.2'W	1	346.03	0091	4228.	133.	0000	10	145900
CHN	100	11	0136	0000	15	711020	10 23.9'S	105 30.0'W	1	346.05	0090	3861.	609.	0000	15	342200
CHN	100	11	0136	0000	26	711020	10 23.9'S	105 30.0'W	1	346.05	0090	3861.	154.	0000	15	332200

MARSDEN SQUARE #354

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	100	9	0096	0000	15	71 821	13 20.0'S	170 35.4'E	9	354.30	0066	3385.	558.	0000	21	356000
CHN	100	9	0096	0000	26	71 821	13 20.0'S	170 35.4'E	9	354.30	0066	3385.	123.	0000	21	356900
CHN	100	9	0097	0000	15	71 822	14 48.8'S	170 44.7'E	9	354.40	0067	3515.	360.	0000	21	093100
CHN	100	9	0097	0000	26	71 822	14 48.8'S	170 44.7'E	9	354.40	0067	3515.	35.	0000	21	356900
CHN	100	9	0101	0000	15	71 824	15 28.6'S	171 22.5'E	9	354.51	0070	3312.	536.	0000	21	393100
CHN	100	9	0101	0000	26	71 824	15 28.6'S	171 22.5'E	9	354.51	0070	3312.	114.	0000	21	356000
CHN	100	9	0102	0000	15	71 824	15 41.6'S	172 8.3'E	9	354.52	0071	3300.	442.	0000	21	356000
CHN	100	9	0102	0000	26	71 824	15 41.6'S	172 8.3'E	9	354.52	0071	3300.	145.	0000	21	356000
CHN	100	9	0078	0000	15	71 8 6	16 55.8'S	170 59.0'E	1	354.60	0055	3316.	553.	0000	21	093100
CHN	100	9	0078	0000	26	71 8 6	16 55.8'S	170 59.0'E	1	354.60	0055	3316.	126.	0000	21	022900
CHN	100	9	0077	0000	15	71 8 5	17 10.6'S	170 8.7'E	1	354.70	0054	3069.	508.	0000	21	093200

MARSDEN SQUARE #355

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	100	9	0092	0000	15	71 818	11 32.5'S	167 34.7'E	9	355.17	0063	2640.	550.	0000	21	356000
CHN	100	9	0092	0000	26	71 818	11 32.5'S	167 34.7'E	9	355.17	0063	2640.	152.	0000	21	392900
CHN	100	9	0095	0000	15	71 820	11 57.1'S	169 34.1'E	9	355.19	0065	3280.	487.	0000	21	393100
CHN	100	9	0095	0000	26	71 820	11 57.1'S	169 34.1'E	9	355.19	0065	3280.	143.	0000	21	392900
CHN	100	9	0094	0000	15	71 819	12 11.4'S	167 13.4'E	9	355.27	0064	1805.	298.	0000	21	393100
CHN	100	9	0094	0000	26	71 819	12 11.4'S	167 13.4'E	9	355.27	0064	1805.	144.	0000	21	332700
CHN	100	9	0087	0000	15	71 814	12 50.7'S	168 38.1'E	9	355.28	0060	3473.	855.	0000	21	396100
CHN	100	9	0087	0000	26	71 814	12 50.7'S	168 38.1'E	9	355.28	0060	3473.	152.	0000	21	356900
CHN	100	9	0089	0000	15	71 815	13 33.8'S	166 16.5'E	9	355.36	0062	5851.	285.	0000	21	193100
CHN	100	9	0088	0000	15	71 815	13 4.5'S	167 52.0'E	9	355.37	0061	2811.	520.	0000	21	356800
CHN	100	9	0088	0000	26	71 815	13 4.5'S	167 52.0'E	9	355.37	0061	2811.	120.	0000	21	356800
CHN	100	8	0071	0000	15	71 728	14 15.1'S	163 53.7'E	9	355.43	0049	3800.	1018.	0000	21	342000
CHN	100	8	0071	0000	26	71 728	14 15.1'S	163 53.7'E	9	355.43	0049	3800.	133.	0000	21	433900
CHN	100	8	0072	0000	15	71 728	14 4.9'S	164 30.0'E	9	355.44	0050	3903.	944.	0000	21	351800
CHN	100	8	0072	0000	26	71 728	14 4.9'S	164 30.0'E	9	355.44	0050	3903.	150.	0000	21	351100
CHN	100	9	0098	0000	15	71 822	14 1.5'S	169 51.1'E	9	355.49	0068	3670.	390.	0000	21	356000
CHN	100	9	0098	0000	26	71 822	14 1.5'S	169 51.1'E	9	355.49	0068	3670.	147.	0000	21	356000
CHN	100	9	0099	0000	15	71 823	14 55.4'S	169 10.8'E	9	355.49	0069	3248.	330.	0000	21	093100
CHN	100	9	0099	0000	26	71 823	14 55.4'S	169 10.8'E	9	355.49	0069	3248.	137.	0000	21	093100
CHN	100	9	0082	0000	15	71 810	15 56.4'S	169 41.2'E	1	355.59	0058	3237.	119.	0000	21	995900
CHN	100	9	0082	0000	26	71 810	15 56.4'S	169 41.2'E	1	355.59	0058	3237.	45.	0000	21	193100
CHN	100	9	0084	0000	15	71 811	16 16.3'S	166 11.7'E	9	355.66	0059	4490.	862.	0000	17	132800
CHN	100	9	0084	0000	26	71 811	16 16.3'S	166 11.7'E	9	355.66	0059	4490.	148.	0000	17	612000

MARSDEN SQUARE #355

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	100	9	0076	0000	15	71 8 5	17 28.3'S	169 15.8'E	1	355.79	0053	1971.	173.	0000	21	093900	
CHN	100	9	0076	0000	26	71 8 5	17 28.3'S	169 15.8'E	1	355.79	0053	1971.	142.	0000	21	094900	
CHN	100	8	0074	0000	15	71 730	18 28.7'S	166 4.8'E	1	355.86	0051	4437.	1143.	0000	21	096700	
CHN	100	8	0074	0000	26	71 730	18 28.7'S	166 4.8'E	1	355.86	0051	4437.	125.	0000	21	096400	
CHN	100	8	0075	0000	15	71 731	18 13.5'S	166 41.7'E	9	355.86	0052	4348.	1074.	0000	21	162900	
CHN	100	8	0075	0000	26	71 731	18 13.5'S	166 41.7'E	9	355.86	0052	4348.	152.	0000	21	096900	
CHN	100	9	0079	0000	15	71 8 8	18 33.8'S	167 15.9'E	1	355.87	0056	4526.	335.	0000	17	493400	
CHN	100	9	0080	0000	15	71 8 8	18 3.4'S	167 11.4'E	1	355.87	0057	4215.	541.	0000	17	312000	
CHN	100	9	0080	0000	26	71 8 8	18 3.4'S	167 11.4'E	1	355.87	0057	4215.	98.	0000	17	312000	

MARSDEN SQUARE #356

CHN	100	8	0070	0000	15	71 727	10 13.5'S	157 6.8'E	9	356.07	0048	5140.	597.	0000	21	314800	

MARSDEN SQUARE #360

AII	93	14	0055	0000	15	761111	11 52.5'S	112 40.5'E	1	360.12	0035	3494.	659.	0000	6	337200	
AII	93	14	0055	0000	26	761111	11 52.5'S	112 40.5'E	1	360.12	0035	3494.	88.	0000	6	331200	
AII	93	14	0052	0000	15	7611 5	11 19.2'S	114 57.5'E	9	360.14	0033	6051.	710.	0000	17	637200	
AII	93	14	0052	0000	26	7611 5	11 19.2'S	114 57.5'E	9	360.14	0033	6051.	37.	0000	17	660600	
AII	93	14	0058	0000	15	761112	13 0.4'S	112 34.5'E	1	360.32	0036	5222.	312.	0000	6	106100	
AII	93	14	0058	0000	26	761112	13 0.4'S	112 34.5'E	1	360.32	0036	5222.	16.	0000	6	00	
AII	93	14	0049	0000	15	7611 3	13 22.4'S	117 53.1'E	9	360.37	0031	5698.	580.	0000	10	137200	
AII	93	14	0049	0000	26	7611 3	13 22.4'S	117 53.1'E	9	360.37	0031	5698.	141.	0000	10	166200	
AII	93	14	0050	0000	15	7611 3	13 22.4'S	117 53.1'E	9	360.37	0032	5698.	896.	0000	10	006200	
AII	93	14	0050	0000	26	7611 3	13 22.4'S	117 53.1'E	9	360.37	0032	5698.	135.	0000	10	634000	
AII	93	14	0059	0000	15	761113	14 37.0'S	113 36.0'E	1	360.43	0037	3076.	229.	0000	10	187000	
AII	93	14	0060	0000	15	761114	16 26.2'S	114 51.3'E	9	360.64	0038	2636.	0.	0000	13	000000	
AII	93	14	0054	0000	15	7611 7	16 37.0'S	117 57.0'E	1	360.67	0034	3212.	160.	0000	10	331000	
AII	93	14	0054	0000	26	7611 7	16 37.0'S	117 57.0'E	1	360.67	0034	3212.	16.	0000	10	00	

MARSDEN SQUARE #365

CHN	43	1	0028	0000	13	64 427	14 15.0'S	62 51.0'E	1	365.42	0013	3820.	107.	0000	10	356941	
CHN	43	1	0027	0000	13	64 427	17 22.0'S	60 24.0'E	1	365.70	0012	3881.	135.	0000	13	032941	

MARSDEN SQUARE #366

AII	93	7	0022	0000	15	76 411	11 1.2'S	54 29.9'E	9	366.14	0005	4599.	1088.	0000	10	004200	
AII	93	7	0022	0000	26	76 411	11 1.2'S	54 29.9'E	9	366.14	0005	4597.	77.	0000	10	004200	
CHN	43	1	0030	0000	13	64 430	11 30.0'S	58 24.0'E	1	366.18	0014	4095.	262.	0000	10	346941	
AII	93	7	0021	0000	15	76 410	15 17.4'S	53 31.5'E	9	366.53	0004	4641.	970.	0000	10	334000	
CHN	43	1	0023	0000	13	64 423	17 27.0'S	58 5.5'E	1	366.78	0011	4038.	127.	0000	13	332941	
CHN	43	1	0033	0000	13	64 5 2	18 4.0'S	58 24.0'E	1	366.88	0016	3869.	163.	0000	13	032941	
AII	15	13	0737	0000	13	65 612	19 59.5'S	50 6.5'E	9	366.90	0737	4356.	80.	0000	6	045900	
AII	15	13	0733	0000	13	65 611	19 56.0'S	55 17.0'E	9	366.95	0733	4382.	39.	0000	10	486900	

MARSDEN SQUARE #366

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	15	13	0732	0000	13	65 611	19 53.0'S	56 48.0'E	9	366.96	0732	4382.	118.	0000	10	036200

MARSDEN SQUARE #367

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	15	7	0673	0000	13	65 5 5	10 44.0'S	40 54.0'E	9	367.00	0673	1210.	10.	0000	4	000000
CHN	99	8	0063	0000	15	7012 2	10 53.0'S	47 37.7'E	9	367.07	0044	4005.	858.	0000	6	383900
CHN	99	8	0063	0000	26	7012 2	10 53.0'S	47 37.7'E	9	367.07	0044	4005.	47.	0000	6	335900
CHN	99	8	0070	0000	15	701213	11 30.8'S	41 50.1'E	9	367.11	0051	2151.	860.	0000	20	303900
CHN	99	8	0070	0000	26	701213	11 30.8'S	41 50.1'E	9	367.11	0051	2151.	35.	0000	20	332900
AII	15	7	0675	0000	13	65 5 6	11 39.5'S	43 7.0'E	9	367.13	0675	2379.	0.	0000	6	000000
CHN	99	8	0065	0000	15	7012 5	12 59.1'S	41 36.7'E	9	367.21	0046	3540.	896.	0000	20	372100
CHN	99	8	0065	0000	26	7012 5	12 59.1'S	41 36.7'E	9	367.21	0046	3540.	69.	0000	20	333900
CHN	99	8	0066	0000	15	7012 6	13 11.3'S	41 23.9'E	9	367.31	0047	2350.	875.	0000	20	335900
CHN	99	8	0066	0000	26	7012 6	13 11.3'S	41 23.9'E	9	367.31	0047	2350.	158.	0000	20	335900
CHN	99	8	0064	0000	15	7012 3	13 18.2'S	46 58.5'E	9	367.36	0045	3243.	693.	0000	6	381900
CHN	99	8	0064	0000	26	7012 3	13 18.2'S	46 58.5'E	9	367.36	0045	3243.	107.	0000	6	373100
CHN	99	8	0067	0000	15	7012 7	14 53.3'S	45 40.6'E	9	367.45	0048	2941.	804.	0000	20	232900
CHN	99	8	0067	0000	26	7012 7	14 53.3'S	45 40.6'E	9	367.45	0048	2941.	67.	0000	20	342900
CHN	99	8	0069	0000	15	701211	15 25.6'S	41 33.6'E	9	367.51	0050	2085.	161.	0000	20	782800
CHN	99	8	0068	0000	15	7012 9	16 4.2'S	41 33.2'E	9	367.61	0049	2758.	840.	0000	12	373100
CHN	99	8	0068	0000	26	7012 9	16 4.2'S	41 33.2'E	9	367.61	0049	2758.	183.	0000	12	483100

MARSDEN SQUARE #370

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	99	4	0048	0000	15	70 613	11 5.0'S	10 44.0'E	9	370.10	0034	3961.	1122.	0000	10	422954
CHN	99	4	0048	0000	26	70 613	11 5.0'S	10 44.0'E	9	370.10	0034	3961.	188.	0000	10	343954
CHN	99	4	0049	0000	15	70 616	19 0.7'S	10 4.0'E	1	370.90	0035	4130.	973.	0000	13	062954
CHN	99	4	0049	0000	26	70 616	19 0.7'S	10 4.0'E	1	370.90	0035	4130.	137.	0000	13	042954

MARSDEN SQUARE #371

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	99	4	0051	0000	15	70 617	19 58.4'S	9 21.8'E	1	371.99	0037	2324.	949.	0000	13	332954

MARSDEN SQUARE #374

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	115	5	0091	0000	15	74 411	24 12.8'S	29 6.4'W	9	374.49	0050	5460.	173.	0000	10	814053
CHN	115	5	0090	0000	13	74 411	25 17.1'S	28 22.2'W	9	374.58	0049	5355.	141.	0000	10	143900
CHN	115	5	0089	0000	15	74 410	26 51.2'S	27 23.4'W	9	374.67	0048	5933.	891.	0000	10	513053
CHN	115	5	0089	0000	26	74 410	26 51.2'S	27 23.4'W	9	374.67	0048	5933.	158.	0000	10	162053
CHN	115	5	0088	0000	13	74 4 9	28 31.6'S	26 22.3'W	9	374.86	0047	4826.	105.	0000	10	486953
CHN	115	5	0087	0000	13	74 4 9	29 53.4'S	25 29.6'W	9	374.95	0046	4833.	156.	0000	10	432953

MARSDEN SQUARE #375

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	115	5	0093	0000	13	74 412	23 56.6'S	31 12.0'W	9	375.31	0052	5179.	121.	0000	10	162953

MARSDEN SQUARE #375

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	115	5	0094	0000	13	74 413	23 49.0'S	33 13.5'W	9	375.33	0053	4757.	117.	0000	10		123953
CHN	115	5	0095	0000	13	74 414	23 39.2'S	35 13.6'W	9	375.35	0054	4153.	124.	0000	6		316653
CHN	115	5	0096	0000	13	74 414	23 27.5'S	37 4.1'W	9	375.37	0055	3944.	110.	0000	6		383341
CHN	115	5	0097	0000	13	74 415	23 21.6'S	39 1.9'W	9	375.39	0056	3206.	5.	0000	6		000053
CHN	115	5	0092	0000	13	74 412	24 0.5'S	30 10.4'W	9	375.40	0051	5313.	118.	0000	10		194300
AII	107	9	0108	0000	15	80 628	25 44.1'S	36 56.6'W	9	375.56	0038	4210.	204.	0000	10		1139
AII	107	9	0109	0000	17	80 628	25 40.4'S	36 53.8'W	9	375.56	0039	4219.	295.	0000	10		1339
AII	107	9	0110	0000	15	80 628	25 38.2'S	36 52.1'W	1	375.56	0040	4219.	1149.	0000	10		1423
AII	107	9	0110	0000	26	80 628	25 38.2'S	36 52.1'W	1	375.56	0040	4219.	162.	0000	10		4339
AII	60	2	0007	0000	15	71 226	26 39.9'S	34 0.4'W	9	375.64	0007	4626.	164.	0000	10		193700
AII	107	9	0111	0000	17	80 629	27 53.3'S	37 13.1'W	9	375.77	0041	4684.	290.	0000	16		1821
AII	107	9	0112	0000	15	80 629	27 48.8'S	37 11.8'W	9	375.77	0042	4562.	1043.	0000	16		1433
AII	107	9	0112	0000	26	80 629	27 48.8'S	37 11.8'W	9	375.77	0042	4562.	108.	0000	16		1829
AII	107	9	0113	0000	17	80 630	28 35.4'S	35 46.5'W	9	375.85	0043	4316.	254.	0000	10		3432
AII	107	9	0114	0000	15	80 630	28 36.4'S	35 47.8'W	9	375.85	0044	4295.	755.	0000	10		3319
AII	107	9	0114	0000	26	80 630	28 36.4'S	35 47.8'W	9	375.85	0044	4295.	33.	0000	10		3359
AII	107	9	0115	0000	15	80 7 1	28 6.2'S	35 16.7'W	1	375.85	0045	4427.	1043.	0000	10		3721
AII	107	9	0115	0000	26	80 7 1	28 6.2'S	35 16.7'W	1	375.85	0045	4427.	156.	0000	10		3429
AII	107	9	0116	0000	17	80 7 1	28 10.3'S	35 17.7'W	9	375.85	0046	4424.	265.	0000	10		3412
AII	107	9	0117	0000	17	80 7 1	28 24.9'S	35 1.3'W	9	375.85	0047	4372.	37.	0000	10		3359
AII	107	9	0118	0000	13	80 7 1	28 27.1'S	35 14.9'W	9	375.85	0048	4383.	979.	0000	10		3735
AII	60	2	0009	0000	15	71 228	29 7.5'S	34 35.9'W	9	375.94	009A	3273.	223.	0000	13		332741
AII	60	2	0009	0000	13	71 228	29 3.4'S	34 42.3'W	9	375.94	009B	2990.	273.	0000	13		332900
AII	60	2	0010	0000	15	71 228	29 39.6'S	34 40.0'W	9	375.94	0010	1840.	120.	0000	13		332941
CHN	115	6	0110	0000	15	74 430	29 59.8'S	35 34.4'W	1	375.95	0066	2158.	316.	0000	13		732900
CHN	115	6	0111	0000	15	74 430	29 57.8'S	35 33.8'W	9	375.95	0067	2195.	716.	0000	13		335953
CHN	115	6	0112	0000	15	74 430	29 57.9'S	35 33.6'W	1	375.95	0068	2192.	193.	0000	13		335953
CHN	115	6	0115	0000	15	74 5 2	29 57.2'S	35 32.9'W	1	375.95	0070	2340.	532.	0000	13		335953
CHN	115	6	0115	0000	26	74 5 2	29 57.2'S	35 32.9'W	1	375.95	0070	2340.	105.	0000	13		335953
CHN	115	6	0116	0000	15	74 5 3	29 57.0'S	35 33.7'W	1	375.95	0071	2235.	532.	0000	13		335958
CHN	115	6	0117	0000	15	74 5 3	29 57.5'S	35 33.8'W	1	375.95	0072	2209.	475.	0000	13		372900
CHN	115	6	0118	0000	15	74 5 3	29 59.4'S	35 33.9'W	1	375.95	0073	2150.	704.	0000	13		373900
CHN	115	6	0119	0000	15	74 5 3	29 57.9'S	35 33.9'W	9	375.95	0074	2192.	736.	0000	13		335900
CHN	115	6	0120	0000	15	74 5 3	29 58.6'S	35 32.9'W	1	375.95	0075	2260.	686.	0000	13		332500
CHN	115	6	0120	0000	26	74 5 3	29 58.6'S	35 32.9'W	1	375.95	0075	2260.	80.	0000	13		335000
CHN	115	6	0121	0000	15	74 5 4	29 56.2'S	35 33.0'W	1	375.95	0076	2315.	671.	0000	13		332900
CHN	115	6	0122	0000	15	74 5 4	29 57.7'S	35 34.7'W	9	375.95	0077	2330.	423.	0000	13		372940
CHN	115	6	0123	0000	15	74 5 4	29 57.1'S	35 33.8'W	9	375.95	0078	2233.	730.	0000	13		335900
CHN	115	6	0124	0000	15	74 5 4	29 57.6'S	35 33.7'W	1	375.95	0079	2214.	682.	0000	13		333900
CHN	115	6	0124	0000	26	74 5 4	29 57.6'S	35 33.7'W	1	375.95	0079	2214.	24.	0000	13		335900
CHN	115	6	0125	0000	15	74 5 5	29 56.3'S	35 33.6'W	1	375.95	0080	2293.	462.	0000	13		373100
CHN	115	6	0125	0000	26	74 5 5	29 56.3'S	35 33.6'W	1	375.95	0080	2293.	80.	0000	13		373900
CHN	115	6	0126	0000	15	74 5 5	29 57.6'S	35 34.3'W	9	375.95	0081	2237.	276.	0000	13		373053
CHN	115	6	0127	0000	15	74 5 6	29 56.7'S	35 33.5'W	9	375.95	0082	2259.	516.	0000	13		373958
CHN	115	6	0128	0000	15	74 5 6	29 58.0'S	35 33.7'W	1	375.95	0083	2189.	651.	0000	13		373958
CHN	115	6	0129	0000	15	74 5 6	29 59.7'S	35 33.5'W	1	375.95	0084	2110.	667.	0000	13		335900
CHN	115	6	0130	0000	15	74 5 6	29 59.3'S	35 33.6'W	1	375.95	0085	2130.	740.	0000	13		335900
CHN	115	6	0134	0000	15	74 5 7	29 46.3'S	35 36.0'W	9	375.95	0087	3302.	2.	0000	13		000000

MARSDEN SQUARE #376

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	115	5	0098	0000	13	74 415	23 5.8'S	40 9.1'W	9	376.30	0057	2595.	105.	0000	4	382153
CHN	115	5	0099	0000	13	74 416	24 16.8'S	41 37.9'W	9	376.41	0058	1922.	45.	0000	4	335953
CHN	115	6	0102	0000	15	74 424	29 20.8'S	40 5.8'W	1	376.90	0059	4188.	753.	0000	13	433353
CHN	115	6	0102	0000	26	74 424	29 20.8'S	40 5.8'W	1	376.90	0059	4188.	52.	0000	13	335353

MARSDEN SQUARE #401

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	93	6	0019	0000	13	76 330	25 34.5'S	69 56.0'E	9	401.59	0002	3661.	120.	0000	16	334000

MARSDEN SQUARE #402

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	15	13	0735	0000	13	65 612	20 2.0'S	52 29.0'E	9	402.02	0735	4936.	50.	0000	10	335200

MARSDEN SQUARE #403

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	15	13	0745	0000	13	65 615	24 59.0'S	47 45.0'E	9	403.47	0745	3269.	22.	0000	4	396900
AII	15	13	0744	0000	13	65 615	24 54.0'S	48 11.0'E	9	403.48	0744	4039.	138.	0000	6	005900
AII	15	13	0746	0000	13	65 616	25 3.1'S	47 26.4'E	9	403.57	0746	1307.	72.	0000	4	005900
AII	15	14	0751	0000	13	65 618	26 7.0'S	41 16.0'E	9	403.61	0751	4243.	60.	0000	6	445200
AII	15	14	0748	0000	13	65 617	26 1.0'S	43 57.0'E	9	403.63	0748	2943.	78.	0000	6	305900
AII	15	14	0747	0000	13	65 616	26 1.0'S	44 32.0'E	9	403.64	0747	1286.	0.	0000	4	000000

MARSDEN SQUARE #404

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	15	14	0758	0000	13	65 620	25 56.0'S	34 45.0'E	9	404.54	0758	792.	26.	0000	4	386900
AII	15	14	0755	0000	13	65 619	25 56.5'S	36 42.0'E	9	404.56	0755	1948.	20.	0000	6	000000
AII	15	14	0756	0000	13	65 619	25 54.0'S	36 9.0'E	9	404.56	0756	1840.	63.	0000	6	335900
AII	15	14	0753	0000	13	65 618	25 55.0'S	38 53.0'E	9	404.58	0753	3884.	80.	0000	6	445900

MARSDEN SQUARE #406

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	115	2	0020	0000	15	731229	22 16.0'S	12 32.3'E	9	406.22	0012	1017.	620.	0000	4	335000
CHN	115	2	0020	0000	26	731229	22 16.0'S	12 32.3'E	9	406.22	0012	1017.	82.	0000	4	335000
CHN	115	2	0022	0000	14	731230	22 30.0'S	12 8.4'E	1	406.22	0014	2429.	53.	0000	6	356000
CHN	115	2	0021	0000	15	731229	23 31.4'S	12 14.9'E	9	406.32	0013	2132.	510.	0000	6	356000
CHN	115	2	0021	0000	26	731229	23 31.4'S	12 14.9'E	9	406.32	0013	2132.	76.	0000	6	356900
CHN	115	2	0023	0000	14	74 1 1	24 4.2'S	12 39.4'E	9	406.42	0015	2199.	83.	0000	6	335000
CHN	115	2	0023	0000	15	74 1 1	24 4.2'S	12 39.4'E	9	406.42	0016	2199.	813.	0000	6	356900
CHN	115	2	0023	0000	26	74 1 1	24 4.2'S	12 39.4'E	9	406.42	0016	2199.	77.	0000	6	335900
CHN	115	2	0024	0000	15	74 1 2	25 0.3'S	10 40.3'E	1	406.50	0017	4254.	872.	0000	6	303200
CHN	115	2	0024	0000	26	74 1 2	25 0.3'S	10 40.3'E	1	406.50	0017	4254.	100.	0000	6	353000

MARSDEN SQUARE #407

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
CHN	99	4	0050	0000	15	70 617	20 49.0'S	9 56.3'E	1	407.09	0036	2640.	1038.	0000	13	332954
CHN	99	4	0050	0000	26	70 617	20 49.0'S	9 56.3'E	1	407.09	0036	2640.	177.	0000	13	032954
CHN	99	4	0052	0000	15	70 619	21 44.8'S	8 30.0'E	1	407.18	0038	4331.	931.	0000	13	372154
CHN	99	4	0052	0000	26	70 619	21 44.8'S	8 30.0'E	1	407.18	0038	4331.	184.	0000	13	003954
CHN	115	2	0027	0000	15	74 1 4	25 2.4'S	7 47.4'E	1	407.57	0020	4738.	321.	0000	10	133000
CHN	115	2	0027	0000	26	74 1 4	25 2.4'S	7 47.4'E	1	407.57	0020	4738.	107.	0000	10	132900
CHN	115	2	0029	0000	15	74 1 5	25 3.8'S	7 50.3'E	9	407.57	0023	4792.	877.	0000	10	333900
CHN	115	2	0026	0000	15	74 1 3	25 25.7'S	9 15.1'E	9	407.59	0019	4685.	476.	0000	10	313900

MARSDEN SQUARE #408

CHN	115	5	0069	0000	15	74 4 1	32 16.4'S	5 4.5'W	9	408.25	0039	4018.	491.	0000	10	335953
CHN	115	5	0069	0000	26	74 4 1	32 16.4'S	5 4.5'W	9	408.25	0039	4018.	121.	0000	10	335953
CHN	115	5	0071	0000	15	74 4 2	32 8.7'S	9 7.9'W	9	408.29	0040	4080.	485.	0000	10	335953
CHN	115	5	0071	0000	26	74 4 2	32 8.7'S	9 7.9'W	9	408.29	0040	4080.	146.	0000	10	335053

MARSDEN SQUARE #409

CHN	115	5	0077	0000	13	74 4 5	31 49.9'S	17 14.5'W	9	409.17	0041	3700.	53.	0000	15	335953
CHN	115	5	0080	0000	15	74 4 6	31 46.6'S	19 5.0'W	9	409.19	0042	3815.	502.	0000	15	032953

MARSDEN SQUARE #410

CHN	115	5	0084	0000	15	74 4 7	31 43.5'S	20 52.4'W	9	410.10	0043	4141.	699.	0000	15	333953
CHN	115	5	0084	0000	26	74 4 7	31 43.5'S	20 52.4'W	9	410.10	0043	4141.	117.	0000	15	335953
CHN	115	5	0085	0000	15	74 4 7	31 36.5'S	22 26.7'W	9	410.12	0044	4411.	880.	0000	10	351253
CHN	115	5	0085	0000	26	74 4 7	31 36.5'S	22 26.7'W	9	410.12	0044	4411.	99.	0000	10	335253
CHN	115	5	0086	0000	15	74 4 8	31 31.1'S	24 26.4'W	9	410.14	0045	4305.	591.	0000	10	332253
CHN	115	5	0086	0000	26	74 4 8	31 31.1'S	24 26.4'W	9	410.14	0045	4305.	152.	0000	10	335953

MARSDEN SQUARE #411

AII	107	9	0123	0000	17	80 7 3	30 14.5'S	35 16.9'W	9	411.05	0053	1358.	12.	0000	13	3359
AII	107	9	0124	0000	17	80 7 3	30 21.9'S	35 9.6'W	9	411.05	0054	1345.	0.	0000	13	
AII	107	9	0126	0000	17	80 7 3	30 19.5'S	35 11.4'W	9	411.05	0056	1268.	0.	0000	13	
AII	107	9	0157	0000	13	80 7 7	30 58.6'S	35 57.2'W	1	411.05	0087	735.	0.	0000	13	
CHN	115	6	0108	0000	15	74 429	30 0.0'S	35 33.8'W	1	411.05	0064	2100.	847.	0000	13	335953
CHN	115	6	0109	0000	15	74 429	30 0.3'S	35 31.5'W	1	411.05	0065	2343.	523.	0000	13	373953
CHN	115	6	0109	0000	26	74 429	30 0.3'S	35 31.5'W	1	411.05	0065	2343.	5.	0000	13	000053
CHN	115	6	0131	0000	15	74 5 6	30 0.1'S	35 33.7'W	1	411.05	0086	2090.	740.	0000	13	335900
CHN	115	6	0131	0000	26	74 5 6	30 0.1'S	35 33.7'W	1	411.05	0086	2090.	36.	0000	13	373900
AII	107	9	0177	0000	17	80 710	30 52.7'S	37 48.3'W	1	411.07	0107	2795.	63.	0000	26	3329
AII	107	9	0178	0000	15	80 710	30 52.9'S	37 45.9'W	9	411.07	0108	2772.	0.	0000	26	
AII	107	9	0180	0000	17	80 711	30 48.6'S	37 47.4'W	9	411.07	0110	2661.	163.	0000	26	3329
AII	107	9	0181	0000	17	80 711	30 49.4'S	37 57.7'W	9	411.07	0111	2857.	10.	0000	26	3329
AII	107	9	0182	0000	17	80 711	30 48.9'S	37 58.7'W	9	411.07	0112	2874.	127.	0000	26	3329

MARSDEN SQUARE #411

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	107	9	0200	0000	15	80 713	30 51.9'S	37 57.0'W	9	411.07	0130	2840.	148.	0000	26	3337	
AII	107	9	0183	0000	17	80 711	30 48.6'S	38 2.9'W	1	411.08	0113	2990.	177.	0000	26	3329	
AII	107	9	0184	0000	17	80 711	30 48.6'S	38 4.8'W	1	411.08	0114	3075.	215.	0000	26	3329	
AII	107	9	0185	0000	17	80 711	30 49.9'S	38 10.4'W	9	411.08	0115	3167.	218.	0000	26	3332	
AII	107	9	0186	0000	17	80 711	30 50.5'S	38 12.5'W	9	411.08	0116	3223.	208.	0000	26	3329	
AII	107	9	0187	0000	17	80 711	30 50.3'S	38 14.6'W	9	411.08	0117	3282.	226.	0000	26	3329	
AII	107	9	0188	0000	17	80 711	30 50.8'S	38 17.8'W	9	411.08	0118	3397.	202.	0000	26	3329	
AII	107	9	0189	0000	17	80 711	30 52.8'S	38 25.6'W	9	411.08	0119	3509.	124.	0000	26	3329	
AII	107	9	0190	0000	15	80 712	30 53.4'S	38 26.9'W	9	411.08	0120	3514.	1024.	0000	26	3329	
AII	107	9	0191	0000	17	80 712	30 53.6'S	38 29.1'W	9	411.08	0121	3580.	283.	0000	26	3322	
AII	107	9	0192	0000	17	80 712	30 54.5'S	38 33.5'W	1	411.08	0122	3716.	162.	0000	26	3329	
AII	107	9	0193	0000	15	80 712	30 54.4'S	38 33.1'W	9	411.08	0123	3703.	830.	0000	26	3329	
AII	107	9	0194	0000	17	80 712	30 55.4'S	38 39.1'W	9	411.08	0124	3800.	223.	0000	26	3329	
AII	107	9	0195	0000	17	80 712	30 56.5'S	38 41.7'W	9	411.08	0125	3878.	298.	0000	26	3329	
AII	107	9	0196	0000	17	80 712	30 57.8'S	38 50.7'W	9	411.08	0126	3991.	268.	0000	26	3312	
AII	107	9	0197	0000	15	80 712	30 57.8'S	38 50.5'W	9	411.08	0127	3990.	515.	0000	26	3329	
AII	107	9	0201	0000	17	80 713	30 52.8'S	38 2.9'W	9	411.08	0131	2925.	199.	0000	26	3359	
AII	107	9	0202	0000	17	80 714	30 50.3'S	38 17.0'W	9	411.08	0132	3543.	117.	0000	26	3329	
AII	107	9	0203	0000	17	80 714	30 51.0'S	38 24.1'W	1	411.08	0133	3454.	165.	0000	26	3359	
AII	107	9	0204	0000	15	80 714	30 51.6'S	38 26.6'W	9	411.08	0134	3588.	921.	0000	26	3312	
AII	107	9	0205	0000	17	80 714	30 53.2'S	38 29.5'W	9	411.08	0135	3620.	51.	0000	26	3359	
AII	107	9	0206	0000	15	80 714	30 54.5'S	38 29.2'W	1	411.08	0136	3590.	469.	0000	26	3329	
AII	107	9	0213	0000	17	80 717	30 59.0'S	38 56.6'W	1	411.08	0143	4033.	294.	0000	26	3329	
AII	107	9	0215	0000	17	80 717	30 56.9'S	38 44.7'W	9	411.08	0145	3963.	897.	0000	26	3429	
AII	107	9	0217	0000	17	80 717	30 48.7'S	38 30.6'W	9	411.08	0147	3658.	127.	0000	26	3359	
AII	107	9	0218	0000	17	80 717	30 48.4'S	38 28.7'W	9	411.08	0148	3628.	1137.	0000	26	3359	
AII	107	9	0219	0000	17	80 718	30 53.4'S	38 33.8'W	9	411.08	0149	3744.	214.	0000	26	3329	
AII	107	9	0220	0000	17	80 718	30 55.6'S	38 37.7'W	9	411.08	0150	3755.	1105.	0000	26	3329	
AII	107	9	0221	0000	17	80 718	30 55.2'S	38 39.9'W	1	411.08	0151	3844.	215.	0000	26	3329	
AII	107	9	0222	0000	15	80 718	30 52.7'S	38 39.9'W	9	411.08	0152	3830.	1029.	0000	26	3332	
AII	107	9	0223	0000	17	80 718	30 55.8'S	38 45.5'W	1	411.08	0153	3965.	217.	0000	26	3339	
AII	107	9	0224	0000	15	80 719	30 52.3'S	38 44.6'W	9	411.08	0154	3925.	1127.	0000	26	3329	
CHN	115	6	0106	0000	15	74 426	30 24.6'S	38 58.4'W	9	411.08	0062	4065.	712.	0000	13	313253	
CHN	115	6	0106	0000	26	74 426	30 24.6'S	38 58.4'W	9	411.08	0062	4065.	148.	0000	13	335253	
CHN	115	6	0137	0000	15	74 5 9	30 55.0'S	38 4.8'W	1	411.08	0088	2941.	704.	0000	13	302953	
CHN	115	6	0137	0000	26	74 5 9	30 55.0'S	38 4.8'W	1	411.08	0088	2941.	128.	0000	13	333253	
CHN	115	6	0139	0000	15	74 5 9	30 52.8'S	38 11.8'W	1	411.08	0089	3152.	672.	0000	13	332253	
CHN	115	6	0140	0000	15	74 5 9	30 51.0'S	38 22.3'W	1	411.08	0090	3384.	654.	0000	13	332900	
CHN	115	6	0140	0000	26	74 5 9	30 51.0'S	38 22.3'W	1	411.08	0090	3384.	51.	0000	13	335000	
CHN	115	6	0141	0000	15	74 510	30 49.5'S	38 25.8'W	1	411.08	0091	3576.	558.	0000	13	332253	
CHN	115	6	0141	0000	26	74 510	30 49.5'S	38 25.8'W	1	411.08	0091	3576.	112.	0000	13	334053	
CHN	115	6	0144	0000	15	74 510	30 25.7'S	38 50.3'W	1	411.08	0092	3934.	734.	0000	13	335258	
CHN	115	6	0144	0000	26	74 510	30 25.7'S	38 50.3'W	1	411.08	0092	3934.	0.	0080	13	333958	
AII	107	9	0198	0000	15	80 712	30 58.8'S	39 0.2'W	1	411.09	0128	4191.	1181.	0000	26	3432	
AII	107	9	0199	0000	15	80 713	30 0.0'S	39 0.0'W	9	411.09	0129	4154.	669.	0000	26	3320	
AII	107	9	0208	0000	17	80 716	30 58.8'S	39 24.7'W	9	411.09	0138	4565.	188.	0000	26	1612	
AII	107	9	0209	0000	17	80 716	30 58.4'S	39 13.8'W	9	411.09	0139	4097.	286.	0000	26	3322	
AII	107	9	0210	0000	17	80 716	30 57.0'S	39 4.5'W	1	411.09	0140	4094.	288.	0000	26	3429	
AII	107	9	0212	0000	17	80 717	30 56.8'S	39 0.0'W	9	411.09	0142	4148.	296.	0000	26	3469	
CHN	115	6	0104	0000	15	74 426	30 13.8'S	39 14.6'W	1	411.09	0060	4310.	547.	0000	13	186353	

MARSDEN SQUARE #411

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	115	6	0104	0000	26	74 426	30 13.8'S	39 14.6'W	1	411.09	0060	4310.	85.	0000	13	142253	
CHN	115	6	0105	0000	15	74 426	30 15.5'S	39 5.8'W	1	411.09	0061	4181.	819.	0000	13	313353	
CHN	115	6	0105	0000	26	74 426	30 15.5'S	39 5.8'W	1	411.09	0061	4181.	151.	0000	13	463053	
AII	107	9	0127	0000	17	80 7 4	31 51.1'S	35 41.6'W	9	411.15	0057	2484.	91.	0000	13	3359	
AII	107	9	0128	0000	17	80 7 4	31 50.0'S	35 42.0'W	9	411.15	0058	2390.	28.	0000	13	3335	
AII	107	9	0129	0000	17	80 7 4	31 48.6'S	35 43.4'W	9	411.15	0059	2341.	150.	0000	13	3329	
AII	107	9	0130	0000	17	80 7 4	31 45.7'S	35 44.2'W	9	411.15	0060	2228.	25.	0000	13	3329	
AII	107	9	0132	0000	17	80 7 4	31 41.9'S	35 46.0'W	9	411.15	0062	2047.	0.	0000	13	3329	
AII	107	9	0133	0000	17	80 7 4	31 40.9'S	35 47.6'W	9	411.15	0063	2007.	22.	0000	13	3359	
AII	107	9	0140	0000	17	80 7 5	31 36.2'S	35 59.9'W	9	411.15	0070	2079.	125.	0000	13	3329	
AII	107	9	0141	0000	17	80 7 5	31 30.9'S	35 56.2'W	9	411.15	0071	1887.	152.	0000	13	3329	
AII	107	9	0142	0000	17	80 7 5	31 27.2'S	35 54.2'W	9	411.15	0072	1781.	186.	0000	13	3329	
AII	107	9	0143	0000	17	80 7 5	31 24.7'S	35 52.9'W	9	411.15	0073	1660.	127.	0000	13	3729	
AII	107	9	0144	0000	17	80 7 5	31 23.0'S	35 52.5'W	1	411.15	0074	1566.	10.	0000	13		
AII	107	9	0145	0000	17	80 7 5	31 21.7'S	35 52.1'W	9	411.15	0075	1556.	23.	0000	13	3359	
AII	107	9	0150	0000	13	80 7 5	31 16.0'S	35 52.1'W	1	411.15	0080	1385.	0.	0000	13		
AII	107	9	0151	0000	13	80 7 5	31 18.0'S	35 52.6'W	1	411.15	0081	1456.	279.	0000	13	3339	
AII	107	9	0152	0000	17	80 7 6	31 12.8'S	35 53.2'W	9	411.15	0082	1344.	0.	0000	13		
AII	107	9	0154	0000	13	80 7 7	31 10.9'S	35 53.0'W	1	411.15	0084	1288.	0.	0000	13		
AII	107	9	0155	0000	13	80 7 7	31 7.5'S	35 53.5'W	1	411.15	0035	1273.	0.	0000	13		
AII	107	9	0161	0000	17	80 7 7	31 2.5'S	35 57.4'W	9	411.15	0091	1146.	0.	0000	13		
AII	107	9	0162	0000	17	80 7 7	31 1.7'S	35 57.7'W	9	411.15	0092	1046.	0.	0000	13		
AII	107	9	0163	0000	17	80 7 7	31 4.2'S	35 58.6'W	9	411.15	0093	1238.	0.	0000	13		
AII	107	9	0164	0000	17	80 7 7	31 15.7'S	35 29.7'W	9	411.15	0094	808.	0.	0000	13		
AII	107	9	0165	0000	17	80 7 7	31 14.6'S	35 30.4'W	9	411.15	0095	812.	0.	0000	13		
AII	107	9	0166	0000	13	80 7 7	31 15.1'S	35 34.7'W	9	411.15	0096	833.	0.	0000	13		
AII	107	9	0167	0000	13	80 7 7	31 16.1'S	35 41.1'W	9	411.15	0097	964.	0.	0000	13		
AII	107	9	0168	0000	17	80 7 7	31 15.9'S	35 41.8'W	9	411.15	0098	1039.	0.	0000	13		
AII	107	9	0170	0000	17	80 7 8	31 16.2'S	35 47.0'W	9	411.15	0100	1176.	0.	0000	13		
AII	107	9	0171	0000	17	80 7 8	31 16.0'S	35 49.1'W	9	411.15	0101	1243.	0.	0000	13		
AII	107	9	0172	0000	17	80 7 8	31 15.9'S	35 52.5'W	1	411.15	0102	1300.	0.	0000	13		
AII	107	9	0173	0000	17	80 7 8	31 15.8'S	35 54.9'W	9	411.15	0103	1360.	0.	0000	13		
AII	107	9	0174	0000	13	80 7 8	31 15.8'S	35 54.9'W	9	411.15	0104	1430.	278.	0000	13	3739	
AII	60	2	0013	0000	15	71 3 1	31 57.3'S	36 34.1'W	9	411.16	013A	2739.	207.	0000	13	332941	
AII	60	2	0013	0000	15	71 3 2	31 56.3'S	36 35.7'W	9	411.16	013B	3122.	219.	0000	13	332900	
AII	107	9	0136	0000	17	80 7 4	31 56.7'S	36 12.3'W	9	411.16	0066	2716.	71.	0000	13	3359	
AII	107	9	0137	0000	17	80 7 4	31 54.9'S	36 12.3'W	9	411.16	0067	2587.	87.	0000	13	3329	
AII	107	9	0138	0000	17	80 7 5	31 47.8'S	36 7.4'W	1	411.16	0068	2268.	180.	0000	13	3329	
AII	107	9	0139	0000	17	80 7 5	31 39.5'S	36 1.4'W	9	411.16	0069	2158.	196.	0000	13	3329	
AII	107	9	0176	0000	17	80 7 8	31 17.2'S	36 0.2'W	1	411.16	0106	1562.	243.	0000	13	3322	
AII	107	9	0214	0000	17	80 717	31 1.0'S	38 52.0'W	1	411.18	0144	3988.	216.	0000	26	3429	
AII	107	9	0211	0000	17	80 716	31 0.9'S	39 8.0'W	1	411.19	0141	4104.	195.	0000	26	4332	
AII	107	9	0227	0000	17	80 719	31 7.2'S	39 43.8'W	9	411.19	0157	4112.	292.	0000	26	6633	
AII	107	9	0228	0000	15	80 719	31 7.6'S	39 44.7'W	9	411.19	0158	4065.	610.	0000	26	1159	
AII	107	9	0229	0000	17	80 719	31 6.5'S	39 27.0'W	1	411.19	0159	4400.	48.	0000	26		
AII	107	9	0135	0000	17	80 7 4	32 2.1'S	36 11.3'W	9	411.26	0065	2795.	179.	0000	13	3329	
AII	60	2	0014	0000	15	71 3 2	32 34.2'S	39 20.6'W	9	411.29	0014	4463.	162.	0000	13	112900	

MARSDEN SQUARE #412

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	9	0225	0000	17	80 719	31 7.9'S	40 1.8'W	9	412.10	0155	3660.	292.	0000	26	3322
AII	107	9	0226	0000	15	80 719	31 7.3'S	40 2.7'W	9	412.10	0156	3635.	1170.	0000	26	3429
AII	60	2	0015	0000	15	71 3 3	32 27.3'S	40 27.5'W	9	412.20	015A	3190.	561.	0000	13	332900
AII	60	2	0015	0000	15	71 3 3	32 28.0'S	40 33.9'W	9	412.20	015B	3207.	244.	0000	13	

MARSDEN SQUARE #434

AII	15	15	0773	0000	13	65 711	32 1.5'S	92 10.5'E	9	434.22	0773	4450.	133.	0000	19	443300

MARSDEN SQUARE #436

AII	15	15	0769	0000	13	65 7 6	31 58.0'S	70 42.0'E	9	436.30	0769	5141.	123.	0000	15	005300

MARSDEN SQUARE #438

AII	15	15	0766	0000	13	65 7 3	32 0.0'S	55 7.0'E	9	438.25	0766	4417.	32.	0000	14	435900

MARSDEN SQUARE #439

AII	15	15	0763	0000	13	65 630	32 1.0'S	40 49.1'E	9	439.20	0763	4549.	124.	0000	19	443200
AII	15	15	0765	0000	13	65 7 2	32 1.5'S	49 55.5'E	9	439.29	0765	3698.	117.	0000	14	335900

MARSDEN SQUARE #440

AII	15	15	0761	0000	13	65 628	31 32.6'S	32 34.6'E	9	440.14	0761	2916.	55.	0000	6	335900

MARSDEN SQUARE #442

CHN	115	5	0058	0000	15	74 325	33 57.1'S	13 34.0'E	9	442.33	0037	4448.	594.	0000	10	335053
CHN	115	5	0058	0000	26	74 325	33 57.1'S	13 34.0'E	9	442.33	0037	4448.	98.	0000	10	335253

MARSDEN SQUARE #443

CHN	115	5	0060	0000	15	74 327	34 4.7'S	6 55.0'E	9	443.46	0038	5260.	878.	0000	10	38(353
CHN	115	5	0060	0000	26	74 327	34 4.7'S	6 55.0'E	9	443.46	0038	5260.	160.	0000	10	18(053

MARSDEN SQUARE #478

CHN	115	4	0032	0000	15	74 217	41 1.8'S	14 41.3'E	9	478.14	0024	4347.	1176.	0000	10	356953
CHN	115	4	0032	0000	26	74 217	41 1.8'S	14 41.3'E	9	478.14	0024	4347.	146.	0000	10	355953

MARSDEN SQUARE #479

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	6	0073	0000	17	80 4 1	46 52.5'S	7 32.5'E	9	479.67	0028	2517.	154.	0000	12	033400
AII	107	6	0072	0000	15	80 331	46 49.3'S	8 0.5'E	9	479.68	0027	2270.	840.	0000	12	335500
AII	107	6	0072	0000	26	80 331	46 49.3'S	8 0.5'E	9	479.68	0027	2270.	60.	0000	12	335500
AII	107	6	0078	0000	15	80 4 2	46 57.2'S	8 7.1'E	9	479.68	0033	2167.	988.	0000	12	033400
AII	107	6	0078	0000	26	80 4 2	46 57.2'S	8 7.1'E	9	479.68	0033	2167.	133.	0000	12	033500
AII	107	6	0079	0000	17	80 4 2	46 49.9'S	8 1.1'E	9	479.68	0034	2195.	85.	0000	12	303400
AII	107	6	0070	0000	17	80 331	47 32.1'S	7 45.8'E	9	479.77	0025	2473.	170.	0000	12	033400
AII	107	6	0071	0000	15	80 331	47 17.1'S	7 54.6'E	9	479.77	0026	1885.	942.	0000	12	351400
AII	107	6	0076	0000	15	80 4 2	47 4.7'S	8 3.3'E	9	479.78	0031	1690.	900.	0000	12	002400

MARSDEN SQUARE #480

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	6	0042	0000	13	80 322	54 25.4'S	1 21.3'W	9	480.41	0023	2012.	22.	0000	19	086400
CHN	115	4	0036	0000	15	74 224	54 42.1'S	2 5.1'W	9	480.42	0027	3140.	1135.	0000	15	552041
CHN	115	4	0036	0000	26	74 224	54 42.1'S	2 5.1'W	9	480.42	0027	3140.	91.	0000	15	555241
AII	107	6	0027	0000	17	80 319	54 45.2'S	3 31.1'W	9	480.43	0021	2921.	58.	0000	15	555200
AII	107	6	0030	0000	17	80 320	54 47.5'S	3 19.8'W	9	480.43	0022	2768.	208.	0000	15	003400
AII	107	6	0024	0000	17	80 318	54 54.5'S	8 43.1'W	9	480.48	0019	3255.	244.	0000	15	653400
CHN	115	4	0042	0000	13	74 3 4	55 23.6'S	2 2.2'W	9	480.52	0031	2189.	1.	0000	14	000000

MARSDEN SQUARE #481

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	6	0020	0000	15	80 316	54 51.4'S	17 57.1'W	9	481.47	0016	4119.	890.	0000	15	563400
AII	107	6	0020	0000	26	80 316	54 51.4'S	17 57.1'W	9	481.47	0016	4119.	83.	0000	15	555900
AII	107	6	0021	0000	17	80 317	54 56.6'S	17 56.0'W	9	481.47	0017	4121.	21.	0000	15	555800

MARSDEN SQUARE #482

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	6	0018	0000	17	80 316	55 16.4'S	21 58.5'W	9	482.51	0015	4119.	71.	0000	15	552400
AII	107	6	0017	0000	15	80 315	55 16.7'S	22 10.9'W	9	482.52	0014	3926.	758.	0000	15	654400
AII	107	6	0017	0000	26	80 315	55 16.7'S	22 10.9'W	9	482.52	0014	3926.	130.	0000	15	663800

MARSDEN SQUARE #483

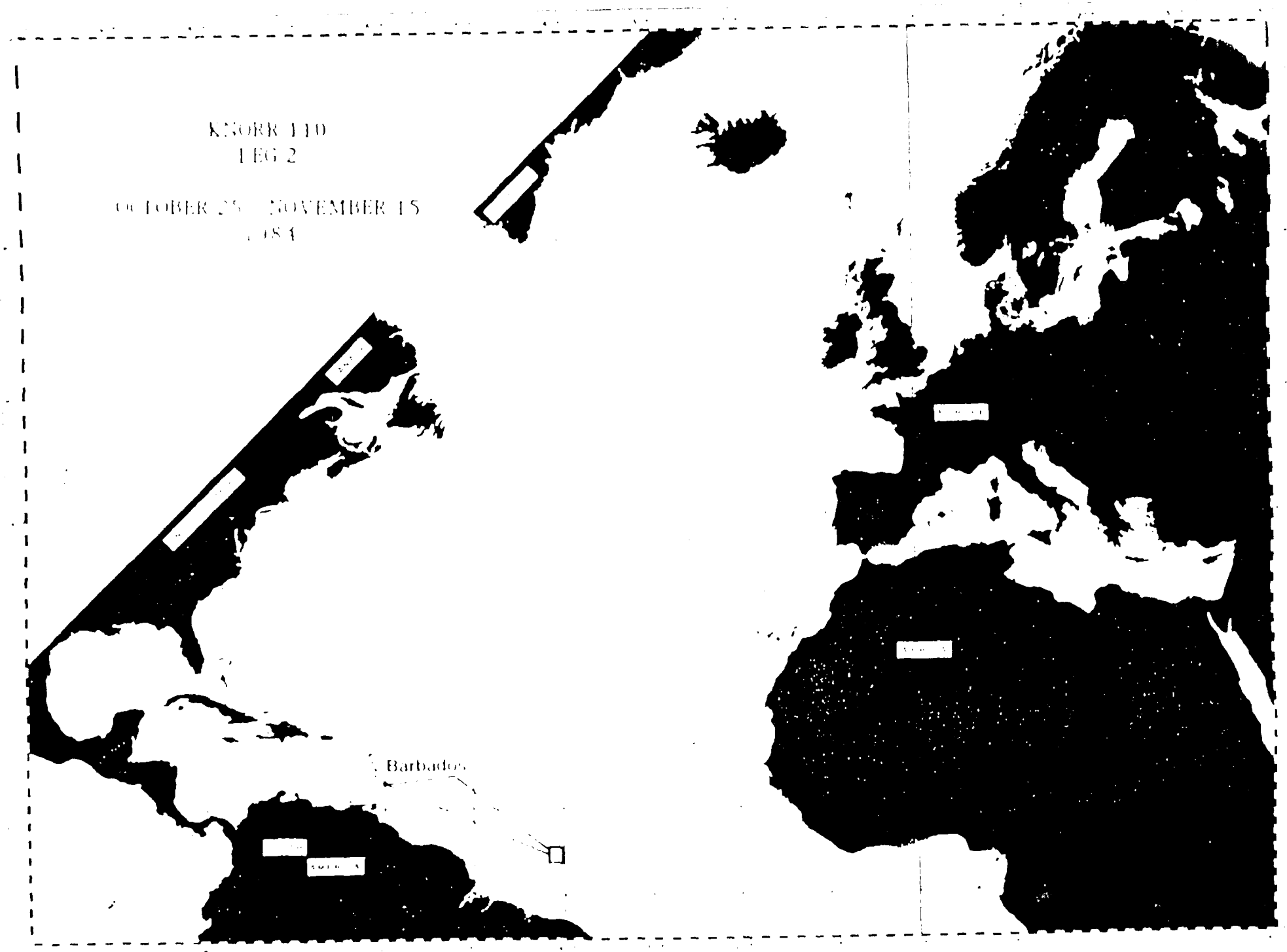
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
AII	107	6	0006	0000	15	80 311	56 14.0'S	32 21.1'W	9	483.62	0004	3251.	597.	0000	20	564400
AII	107	6	0006	0000	26	80 311	56 14.0'S	32 21.1'W	9	483.62	0004	3251.	132.	0000	20	653400
AII	107	6	0007	0000	15	80 311	56 21.4'S	32 44.8'W	9	483.62	0005	3174.	812.	0000	20	564400
AII	107	6	0007	0000	26	80 311	56 21.4'S	32 44.8'W	9	483.62	0005	3174.	83.	0000	20	555400
AII	107	6	0008	0000	15	80 312	56 19.0'S	32 45.2'W	9	483.62	0006	3150.	638.	0000	20	564400
AII	107	6	0008	0000	26	80 312	56 19.0'S	32 45.2'W	9	483.62	0006	3150.	74.	0000	20	555700
AII	107	6	0009	0000	15	80 312	56 16.8'S	32 45.1'W	9	483.62	0007	3116.	538.	0000	20	652400
AII	107	6	0009	0000	26	80 312	56 16.8'S	32 45.1'W	9	483.62	0007	3116.	126.	0000	20	555700
AII	107	6	0010	0000	15	80 312	56 17.6'S	32 38.9'W	9	483.62	0008	3223.	742.	0000	20	562400
AII	107	6	0010	0000	26	80 312	56 17.6'S	32 38.9'W	9	483.62	0008	3223.	69.	0000	20	555700
AII	107	6	0011	0000	13	80 313	56 11.7'S	32 29.9'W	9	483.62	0009	3223.	130.	0000	20	552400
AII	107	6	0012	0000	15	80 313	56 17.4'S	32 41.3'W	9	483.62	0010	3273.	723.	0000	20	652400

MARSDEN SQUARE #483

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
AII	107	6	0012	0000	26	80 313	56 17.4'S	32 41.3'W	9	483.62	0010	3273.	32.	0000	20	665400	
AII	107	6	0013	0000	15	80 313	56 16.9'S	32 38.4'W	9	483.62	0011	3260.	622.	0000	20	562400	
AII	107	6	0013	0000	26	80 313	56 16.9'S	32 38.4'W	9	483.62	0011	3260.	107.	0000	20	586700	

MARSDEN SQUARE #515

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE
CHN	115	4	0034	0000	15	74 222	51 0.0'S	5 19.8'E	1	515.15	0025	3788.	141.	0000	15	536053	
CHN	115	4	0051	0000	15	74 3 9	52 19.7'S	6 30.0'E	9	515.26	0036	3692.	1059.	0000	15	555041	
CHN	115	4	0051	0000	26	74 3 9	52 19.7'S	6 30.0'E	9	515.26	0036	3692.	105.	0000	15	596041	
CHN	115	4	0035	0000	15	74 223	53 36.0'S	0 6.0'E	1	515.30	0026	2643.	1190.	0000	15	555041	
CHN	115	4	0035	0000	26	74 223	53 36.0'S	0 6.0'E	1	515.30	0026	2643.	61.	0000	15	555041	
CHN	115	4	0043	0000	13	74 3 5	54 35.5'S	0 4.8'E	9	515.40	0032	1260.	143.	0000	14	596041	
CHN	115	4	0047	0000	15	74 3 7	54 12.0'S	2 3.6'E	9	515.42	0034	5047.	861.	0000	19	596041	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LEG 2
OCTOBER 25 - NOVEMBER 15
1984
Barbados

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
KNR	110	2	0001	0000	17	841029	5 59.1'N	44 57.8'W	9	5.54	0001	3375.	300.	0000	13	1182	
KNR	110	2	0002	0000	17	841030	5 52.3'N	44 56.0'W	9	5.54	0002	3502.	340.	0000	13	3332	
KNR	110	2	0003	0000	17	841030	5 45.2'N	44 50.5'W	8	5.54	0003	3613.	5.	0000	13	0000	
KNR	110	2	0003	0000	17	841030	5 44.3'N	44 50.3'W	9	5.54	0004	3739.	175.	0000	13	3832	
KNR	110	2	0004	0000	17	841030	5 39.5'N	44 46.0'W	9	5.54	0005	3144.	282.	0000	13	1322	
KNR	110	2	0005	0000	17	841030	5 41.6'N	44 43.3'W	9	5.54	0006	3296.	280.	0000	13	1102	
KNR	110	2	0005	0000	17	841030	5 41.8'N	44 44.4'W	8	5.54	0007	3547.	462.	0000	13	1302	
KNR	110	2	0006	0000	17	841030	5 47.4'N	44 37.8'W	8	5.54	0008	3674.	191.	0000	13	3302	
KNR	110	2	0007	0000	17	841030	5 49.6'N	44 35.2'W	8	5.54	0009	3643.	280.	0000	13	3102	
KNR	110	2	0007	0000	17	841031	5 50.4'N	44 35.3'W	8	5.54	0010	3659.	437.	0000	13	3302	
KNR	110	2	0008	0000	17	841031	5 53.1'N	44 30.3'W	8	5.54	0011	3729.	295.	0000	13	3132	
KNR	110	2	0009	0000	17	841031	5 58.0'N	44 27.7'W	9	5.54	0012	3969.	286.	0000	13	3102	
KNR	110	2	0009	0000	17	841031	5 56.7'N	44 27.8'W	9	5.54	0013	3750.	446.	0000	13	1102	
KNR	110	2	0010	0000	17	841031	6 0.5'N	44 23.5'W	8	5.64	0014	4019.	284.	0000	13	3102	
KNR	110	2	0011	0000	17	841031	6 6.5'N	44 17.2'W	9	5.64	0015	4295.	370.	0000	13	1102	
KNR	110	2	0011	0000	17	841031	6 7.4'N	44 18.0'W	8	5.64	0016	4336.	439.	0000	13	1102	
KNR	110	2	0012	0000	17	841031	6 13.3'N	44 13.3'W	9	5.64	0017	4468.	400.	0000	13	3138	
KNR	110	2	0013	0000	17	8411 1	6 18.6'N	44 4.8'W	9	5.64	0018	4576.	356.	0000	13	1332	
KNR	110	2	G013	0000	17	8411 1	6 17.3'N	44 4.5'W	8	5.64	0019	4576.	457.	0000	13	1308	
KNR	110	2	0014	0000	17	8411 1	6 12.8'N	44 5.3'W	9	5.64	0020	4489.	335.	0000	13	3132	
KNR	110	2	0015	0000	17	8411 1	6 7.4'N	44 4.5'W	9	5.64	0021	4366.	384.	0000	13	3888	
KNR	110	2	0015	0000	17	8411 1	6 7.6'N	44 3.9'W	8	5.64	0022	4371.	457.	0000	13	1302	
KNR	110	2	0016	0000	17	8411 1	6 1.8'N	44 4.6'W	9	5.64	0023	4209.	382.	0000	13	3102	
KNR	110	2	0017	0000	17	8411 1	6 0.3'N	44 5.4'W	8	5.54	0024	4133.	366.	0000	13	3108	
KNR	110	2	0018	0000	17	8411 1	5 43.4'N	44 2.9'W	9	5.54	0025	4031.	52.	0000	13	3308	
KNR	110	2	0018	0000	17	8411 2	5 42.5'N	44 2.5'W	8	5.54	0026	4025.	474.	0000	13	3328	
KNR	110	2	0019	0000	17	8411 2	5 36.5'N	44 4.7'W	9	5.54	0027	3867.	356.	0000	13	3308	
KNR	110	2	0020	0000	17	8411 2	5 34.1'N	44 4.9'W	8	5.54	0028	3790.	326.	0000	13	3302	
KNR	110	2	0020	0000	17	8411 2	5 32.8'N	44 3.1'W	8	5.54	0029	3739.	384.	0000	13	1302	
KNR	110	2	0021	0000	17	8411 2	5 28.5'N	44 4.1'W	1	5.54	0030	3603.	392.	0000	13	3338	
KNR	110	2	0022	0000	17	8411 2	5 26.8'N	44 3.4'W	9	5.54	0031	3532.	356.	0000	13	1102	
KNR	110	2	0022	0000	17	8411 2	5 26.1'N	44 3.1'W	9	5.54	0032	3507.	336.	0000	13	3308	
KNR	110	2	0023	0000	17	8411 2	5 22.6'N	44 3.7'W	9	5.54	0033	3400.	273.	0000	13	1322	
KNR	110	2	0024	0000	17	8411 3	5 16.4'N	44 3.7'W	8	5.54	0034	3292.	373.	0000	13	3308	
KNR	110	2	0024	0000	17	8411 2	5 14.3'N	44 3.6'W	9	5.54	0035	3274.	386.	0000	13	3308	
KNR	110	2	0025	0000	17	8411 2	5 13.1'N	44 4.2'W	9	5.54	0036	3254.	390.	0000	13	1102	
KNR	110	2	0026	0000	17	8411 3	5 8.0'N	44 1.7'W	9	5.54	0037	3189.	428.	0000	13	3308	
KNR	110	2	0026	0000	17	8411 3	5 9.3'N	44 1.0'W	1	5.54	0038	3199.	358.	0000	13	1122	
KNR	110	2	0027	0000	17	8411 3	4 44.0'N	43 47.0'W	0	5.43	0039	3370.	343.	0000	13	3102	
KNR	110	2	0028	0000	17	8411 3	4 43.6'N	43 45.4'W	8	5.43	0040	3300.	313.	0000	13	3308	
KNR	110	2	0028	0000	15	8411 3	4 44.0'N	43 47.1'W	9	5.43	0041	3315.	1001.	0000	13	3322	
KNR	110	2	0028	0000	26	8411 3	4 44.0'N	43 47.1'W	9	5.43	0041	3315.	81.	0000	13	3308	
KNR	110	2	0029	0000	17	8411 3	4 44.2'N	43 40.0'W	8	5.43	0042	3451.	325.	0000	13		
KNR	110	2	0029	0000	15	8411 3	4 43.3'N	43 39.1'W	8	5.43	0043	3436.	1155.	0000	13	3102	

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
KNR	110	2	0029	0000	26	8411 3	4 43.3'N	43 39.1'W	8	5.43	0043	3436.	80.	0000	13	1322	
KNR	110	2	0030	0000	15	8411 3	4 45.3'N	43 31.9'W	9	5.43	0044	3562.	359.	0000	13	1102	
KNR	110	2	0031	0000	17	8411 3	4 46.9'N	43 29.2'W	8	5.43	0045	3669.	93.	0000	13	3308	
KNR	110	2	0031	0000	15	8411 4	4 46.3'N	43 27.4'W	8	5.43	0046	3689.	1116.	0000	13	1322	
KNR	110	2	0031	0000	26	8411 4	4 46.3'N	43 27.4'W	8	5.43	0046	3689.	98.	0000	13	3122	
KNR	110	2	0032	0000	17	8411 4	4 48.9'N	43 24.3'W	8	5.43	0047	3765.	346.	0000	13		
KNR	110	2	0033	0000	17	8411 4	4 51.3'N	43 18.8'W	8	5.43	0048	3892.	347.	0000	13	1102	
KNR	110	2	0033	0000	15	8411 4	4 50.0'N	43 17.0'W	9	5.43	0049	3908.	1019.	0000	13	1102	
KNR	110	2	0033	0000	26	8411 4	4 50.0'N	43 17.0'W	9	5.43	0049	3908.	93.	0000	13	3102	
KNR	110	2	0034	0000	17	8411 4	4 51.9'N	43 12.3'W	9	5.43	0050	3995.	343.	0000	13	1122	
KNR	110	2	0035	0000	17	8411 4	4 54.0'N	43 8.0'W	8	5.43	0051	4097.	394.	0000	13	3108	
KNR	110	2	0035	0000	15	8411 4	4 53.9'N	43 7.6'W	8	5.43	0052	4158.	1173.	0000	13	1302	
KNR	110	2	0035	0000	26	8411 4	4 53.9'N	43 7.6'W	8	5.43	0052	4158.	113.	0000	13	3102	
KNR	110	2	0036	0000	17	8411 4	4 55.5'N	43 2.5'W	9	5.43	0053	4300.	455.	0000	13	3302	
KNR	110	2	0037	0000	15	8411 4	4 57.2'N	42 54.9'W	9	5.42	0054	4458.	915.	0000	13	3128	
KNR	110	2	0037	0000	26	8411 4	4 57.3'N	42 54.9'W	9	5.42	0054	4458.	56.	0000	13	3338	
KNR	110	2	0037	0000	17	8411 5	4 56.9'N	42 53.5'W	9	5.42	0055	4556.	322.	0000	13	1302	
KNR	110	2	0038	0000	15	8411 5	4 59.7'N	42 46.5'W	8	5.52	0056	4638.	1067.	0000	13	3108	
KNR	110	2	0038	0000	26	8411 5	4 59.7'N	42 46.5'W	8	5.52	0056	4638.	140.	0000	13	3132	
KNR	110	2	0038	0000	17	8411 5	5 1.5'N	42 43.6'W	9	5.52	0057	4566.	334.	0000	13		
KNR	110	2	0040	0000	17	8411 5	4 47.5'N	43 2.3'W	9	5.43	0058	4341.	308.	0000	13	3122	
KNR	110	2	0039	0000	15	8411 5	4 43.5'N	42 54.8'W	9	5.42	0059	4545.	1076.	0000	13	1382	
KNR	110	2	0039	0000	26	8411 5	4 43.5'N	42 54.8'W	9	5.42	0059	4545.	129.	0000	13	1322	
KNR	110	2	0040	0000	15	8411 5	4 47.0'N	43 1.9'W	9	5.43	0060	4300.	1070.	0000	13	3102	
KNR	110	2	0040	0000	26	8411 5	4 47.0'N	43 1.9'W	9	5.43	0060	4300.	121.	0000	13	3108	
KNR	110	2	0041	0000	17	8411 5	4 44.9'N	43 4.4'W	8	5.43	0061	4041.	418.	0000	13	3732	
KNR	110	2	0041	0000	15	8411 6	4 45.1'N	43 3.0'W	8	5.43	0062	4046.	793.	0000	13	3322	
KNR	110	2	0041	0000	26	8411 6	4 45.1'N	43 3.0'W	8	5.43	0062	4046.	111.	0000	13	3328	
KNR	110	2	0042	0000	17	8411 6	4 43.3'N	43 7.9'W	8	5.43	0063	3892.	328.	0000	13	3102	
KNR	110	2	0042	0000	15	8411 6	4 42.4'N	43 8.8'W	9	5.43	0064	3750.	1138.	0000	13	3328	
KNR	110	2	0042	0000	26	8411 6	4 42.4'N	43 8.8'W	9	5.43	0064	3750.	127.	0000	13	3102	
KNR	110	2	0043	0000	17	8411 6	4 35.5'N	43 20.1'W	8	5.43	0065	3628.	335.	0000	13	3308	
KNR	110	2	0044	0000	17	8411 6	4 33.8'N	43 22.9'W	8	5.43	0066	3547.	297.	0000	13	3102	
KNR	110	2	0044	0000	15	8411 6	4 34.5'N	43 21.9'W	8	5.43	0067	3608.	1080.	0000	13	1322	
KNR	110	2	0044	0000	26	8411 6	4 34.5'N	43 21.9'W	8	5.43	0067	3608.	140.	0000	13	3102	
KNR	110	2	0045	0000	17	8411 6	4 32.8'N	43 22.4'W	9	5.43	0068	3547.	335.	0000	13	3328	
KNR	110	2	0046	0000	17	8411 6	4 24.6'N	43 36.0'W	8	5.43	0069	3259.	310.	0000	13		
KNR	110	2	0046	0000	15	8411 7	4 24.5'N	43 36.0'W	8	5.43	0070	3274.	1140.	0000	13	3308	
KNR	110	2	0047	0000	17	8411 7	4 21.8'N	43 41.8'W	8	5.43	0071	3164.	335.	0000	13	1302	
KNR	110	2	0047	0000	15	8411 7	4 22.0'N	43 40.2'W	9	5.43	0072	3194.	967.	0000	13	3302	
KNR	110	2	0047	0000	26	8411 7	4 22.0'N	43 40.2'W	9	5.43	0072	3194.	74.	0000	13	3322	
KNR	110	2	0048	0000	17	8411 7	4 21.3'N	43 29.2'W	8	5.43	0073	2952.	169.	0000	13	3332	
KNR	110	2	0049	0000	17	8411 7	4 19.8'N	43 25.4'W	8	5.43	0074	2987.	302.	0000	13	3308	
KNR	110	2	0049	0000	17	8411 7	4 20.5'N	43 24.5'W	0	5.43	0075	3063.	355.	0000	13	3322	
KNR	110	2	0049	0000	15	8411 7	4 19.3'N	43 26.7'W	9	5.43	0076	3149.	1021.	0000	13	3302	

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
KNR	110	2	0049	0000	26	8411 7	4 19.3'N	43 26.7'W	9	5.43	0076	3149.	134.	0000	13	3300	
KNR	110	2	0050	0000	17	8411 7	4 19.6'N	43 25.7'W	9	5.43	0077	2977.	307.	0000	13	3308	
KNR	110	2	0050	0000	15	8411 7	4 19.8'N	43 23.6'W	9	5.43	0078	3088.	1089.	0000	13	3328	
KNR	110	2	0050	0000	26	8411 7	4 19.8'N	43 23.6'W	9	5.43	0078	3088.	121.	0000	13	3302	
KNR	110	2	0051	0000	17	8411 8	4 19.5'N	43 30.2'W	8	5.43	0079	2821.	331.	0000	13	3308	
KNR	110	2	0051	0000	15	8411 8	4 21.2'N	43 26.7'W	1	5.43	0080	2826.	917.	0000	13	3302	
KNR	110	2	0051	0000	17	8411 8	4 21.4'N	43 26.2'W	8	5.43	0081	2881.	454.	0000	13	3352	
KNR	110	2	0052	0000	17	8411 8	4 20.2'N	43 29.2'W	9	5.43	0082	2816.	340.	0000	13	1332	
KNR	110	2	0053	0000	17	8411 8	4 21.1'N	43 31.8'W	8	5.43	0083	2912.	326.	0000	13	3338	
KNR	110	2	0053	0000	19	8411 8	4 21.7'N	43 30.6'W	8	5.43	0084	2947.	30.	0000	13	3352	
KNR	110	2	0054	0000	17	8411 8	4 26.0'N	43 31.2'W	8	5.43	0085	3174.	314.	0000	13	3102	
KNR	110	2	0054	0000	19	8411 8	4 26.6'N	43 29.0'W	9	5.43	0086	3320.	36.	0000	13	3758	
KNR	110	2	0055	0000	17	8411 8	4 37.1'N	43 40.2'W	8	5.43	0087	2776.	315.	0000	13	3308	
KNR	110	2	0055	0000	19	8411 9	4 37.9'N	43 39.0'W	8	5.43	0088	2952.	30.	0000	13	3752	
KNR	110	2	0056	0000	17	8411 9	4 42.1'N	43 28.6'W	9	5.43	0089	3613.	315.	0000	13	3308	
KNR	110	2	0056	0000	19	8411 9	4 42.8'N	43 25.3'W	9	5.43	0090	3654.	30.	0000	13	3352	
KNR	110	2	0057	0000	17	8411 9	4 45.6'N	43 18.4'W	8	5.43	0091	3810.	364.	0000	13	3102	
KNR	110	2	0057	0000	19	8411 9	4 46.4'N	43 16.5'W	8	5.43	0092	3882.	30.	0000	13	3752	
KNR	110	2	0058	0000	17	8411 9	4 51.2'N	43 8.5'W	9	5.43	0093	4056.	361.	0000	13	3308	
KNR	110	2	0058	0000	19	8411 9	4 52.5'N	43 4.8'W	9	5.43	0094	4107.	30.	0000	13	3752	
KNR	110	2	0059	0000	17	8411 9	4 52.9'N	43 1.7'W	9	5.43	0095	4260.	388.	0000	13	3328	
KNR	110	2	0059	0000	19	841110	4 52.1'N	42 58.8'W	8	5.43	0096	4427.	30.	0000	13	3332	
KNR	110	2	0060	0000	17	841110	5 4.8'N	42 49.5'W	8	5.52	0097	4556.	341.	0000	13	3138	
KNR	110	2	0061	0000	19	841110	5 9.0'N	42 44.2'W	9	5.52	0099	4643.	30.	0000	13	3352	

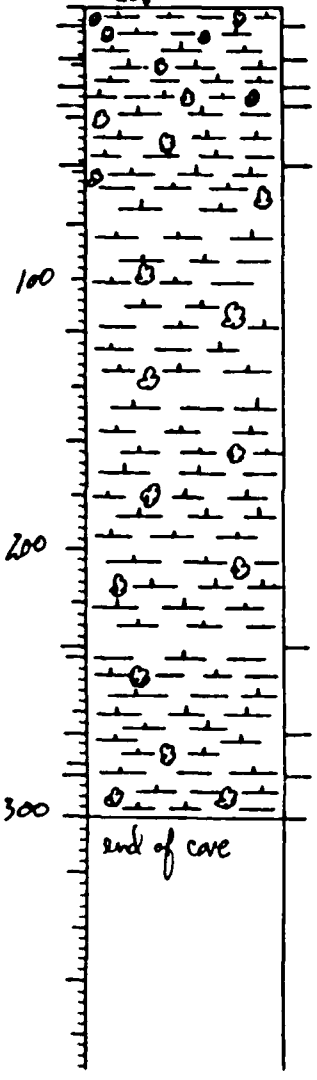
THERE WERE 113 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 1 Core No. 1GGC
Total Length 300 cm. Lat. 5°59.1'N Long. 48°53.2'W Depth 3375 m.
Core condition excellent Date Described 3/14/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-6
HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown
faint mottling throughout
smooth lutite, forams abundant
S, horizontal

6-18
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling of overlying material near top of unit
smooth lutite, forams common decreasing to scattered
G, horizontal

18-29
HIGHLY CALC CLAY
10YR 5/8 yellowish brown
faint mottling of 10YR 5/6 yellowish brown and some of 10YR 3/4 dark yellowish brown
smooth lutite with few forams
thin (1 cm) lamination of 10YR 3/4 dark yellowish brown material at top of unit
G, horizontal

29-35
HIGHLY CALC CLAY
10YR 3/4 dark yellowish brown
mottling common throughout (intercolation?)
smooth lutite with few forams
one thin (<0.5cm) lamination at 31 cm of 10YR 3/6 dark yellowish brown with common forams
G, horizontal

35-58
HIGHLY CALC CLAY
10YR 5/8 yellowish brown
scattered mottling of 10YR 3/4 dark yellowish brown material, mainly in upper 5 cm
smooth lutite, forams decrease from scattered to few down-section
well laminated from 48-53 cm with thin (1/mm), 10YR 3/4 dark yellowish brown material. Similar, thicker, discontinuous laminations present from 35-41 cm. 2 semi-lithified 5YR 5/8 yellowish red zones at 44 and 58 cm. Glacial to interglacial?
S, incline, convex upward

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 1 Core No 1GGC

Lithologic Log

Detailed Description

58-236
HIGHLY CALC CLAY INTO CALC CLAY
10YR 5/3 brown
mottling with 2.5Y 5/2 grayish brown material ranges from common to faint throughout
smooth lutite with forams scattered to common throughout
10YR 5/8 yellowish brown areas at 70, 138-140, 174-176, 209-213 cm. Other areas of 10YR 5/4 yellowish brown also present
S, horizontal

236-269
HIGHLY CALC CLAY
2.5Y 4/4 olive brown
mottling with 2.5Y 5/2 grayish brown material common throughout
smooth lutite with forams increasing in abundance from scattered to common down core
yellowish brown from 236-238 cm.
G, horizontal

269-285
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
faint mottling with 10YR 3/3 dark brown material
smooth lutite with forams common
G, horizontal

285-300
HIGHLY CALC CLAY
2.5Y 7/6 pale yellow
faint mottling with 2.5Y 5/2 grayish brown material
smooth lutite with forams abundant

END OF CORE..

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. IGGC

Expedition 110 Station No. 1

Leg No. 2 Total Core Length 300 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3 cm	highly calc clay	Tr				65	3	22			10			Tr
12 cm	" " "	Tr	Tr			66	3	25			6			Tr
24 cm	" " "	Tr	1			69	3	23			4			
33 cm	" " "	Tr	2			73	2	20			3			
50 cm	" " "	Tr	1			76	1	18			2			
110 cm	" " "	Tr	Tr			80	2	15			3			
190 cm	" " "	Tr	Tr			79	1	15			3			
230 cm	calc clay	Tr	Tr			81	1	10			3			
255 cm	highly calc clay	Tr	Tr			72	1	25			2			
280 cm	" " "	Tr	Tr			80	2	14			4			
295 cm	" " "	Tr	Tr			80	2	10			4			

VISUAL CORE DESCRIPTION

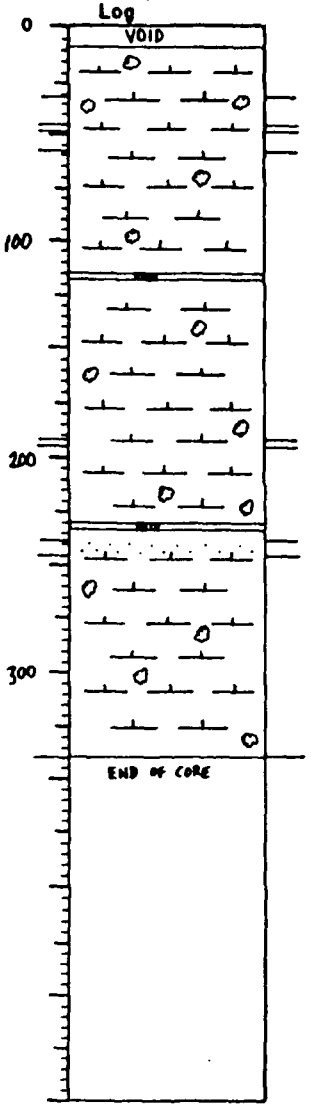
Ship KNR Cruise 110 Leg 2 Sta. 2 Core No 2GGC

Total Length 340 cm. Lat. 5°52.30'N Long. 44°56.0'W Depth 3502 m corr.

Core condition EXCELLENT Date Described 11 JAN. 1990 by P. MILLS

Physiographic location NW FLANK OF CEARA RISE

Lithologic Log



Detailed Description

0-8
SHRINKAGE VOID

8-31
CALC OOZE
10 YR 5/3 brown grading to 10 Yr 5/4 yellowish brown
Faint mottling of major colors throughout unit
Silty lutite with abundant forams grading to
Common below 25 cm.
S, mottled.

31-45
CALC OOZE
10 YR 4/4 dark yellowish brown
Common mottling 10 YR 5/4 yellowish brown
Slightly silty lutite with scattered forams
1 cm 10 YR 3/3 dark brown band at top of unit
S, mottled.

45-48
CALC OOZE
10 YR 3/3 dark brown
Few 10 YR 5/3 brown mottles
Silty lutite with common forams
S, 10°

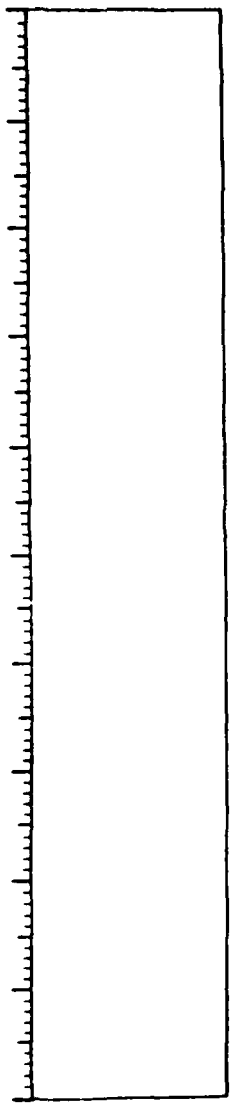
48-58
CALC OOZE
10 YR 5/4 yellowish brown
No mottling
Very silty lutite grading to slightly silty with common forams
Several bands of 7.5 YR 4/6 strong brown scattered 10 YR 2/2 very dark brown spots; manganese micro nodules?
S, 10°

58-192
CALC OOZE
10 YR 5/3 brown
Common 2.5 YR 4/2 dark grayish brown mottling throughout
Slightly silty lutite with common forams throughout
Many large 2.5 Y 4/2 burrows throughout unit; few 2.5 Y 4/4 olive brown bands 98 cm., 105cm., 134 cm., 142 cm., 178 cm.
SHRINKAGE VOID (115-117 cm.)
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 2 Core No 2GGC

Lithologic Log



Detailed Description

192-195
CALC OOZE
2.5 Y 5/6 light olive brown
Slightly silty lutite with common forams
S.

195-238
CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 4/2 dark grayish brown burrows throughout. SHRINKAGE VOID 230-232 cm.
Slightly silty lutite with common forams.
Large 2.5 Y 3/2 very dark grayish brown burrow 196 cm.
G.

238-245
CALC OOZE WITH DETRITUS
10 YR 5/3 brown
Very silty lutite with abundant forams
2.5 Y 4/4 olive brown band at base of unit
S.

245-340
CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 4/2 dark grayish brown mottles and burrows throughout
Few bands of 2.5 Y 4/4 olive brown 254 cm., 288-292 cm., 321-324 cm, 331 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 2GGC

Expedition 110 Station No. 2

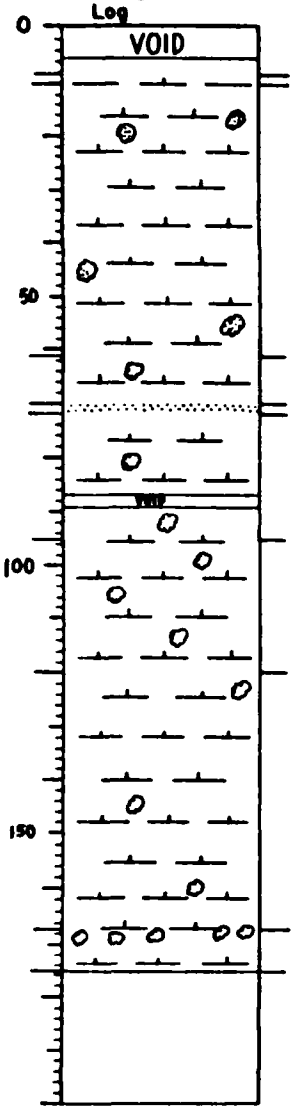
Leg No. 2 Total Core Length 340 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micromodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
9	CALC OOZE	TR	2			45	10	40			2			1
20	CALC OOZE	1	2			55	10	30			1			1
40	CALC OOZE	1	8			50	5	36			TR			
45	CALC OOZE	1	15			50	2	32			TR			
50	CALC OOZE	3	5			55	5	31			1			
125	CALC OOZE	2	3			38	5	50			2			
192	CALC OOZE	2	3			55	4	35			1			
220	CALC OOZE	2	2			60	4	32						
242	CALC OOZE WITH DETRITUS	15	2			40	3	30			10			
300	CALC OOZE	1	2			40	10	45			2			
339	CALC OOZE	1	3			55	5	35			1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 3 Core No 4GGC
Total Length 175 cm. Lat. 5° 44.30' N Long. 44° 50.36' W Depth 3739 corr. m
Core condition EXCELLENT Date Described 12 JAN 1990 by P. MILLS
Physiographic location NW CORNER OF COARA RISE

Lithologic Log



Detailed Description

0-5
SHRINKAGE VOID

5-8
CALC OOZE
10 YR 4/3 dark brown
silty lutite /foram sand
S.

8-10
HIGHLY CALC CLAY WITH DETRITUS
10 YR 4/3 dark brown
Slightly silty lutite with common forams
.5 cm 10 YR 3/3 very dark brown band crossing unit
S.

10-61
CALC OOZE
10 YR 5/4 yellowish brown
Scattered 10 YR 5/4 mottles containing abundant forams.
Slightly silty lutite with common forams becoming abundant below 40 cm.
few 10 YR 4/4 dark yellowish brown streaks from 15-18 cm.
G.

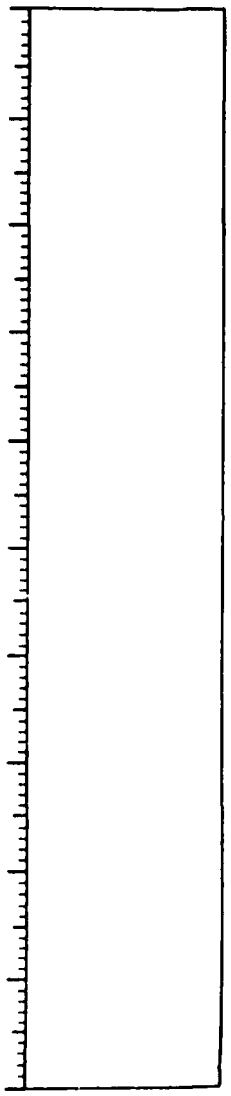
61-70
CALC OOZE
10 YR 4/3 brown grading to 10 YR 3/3 dark brown
few 10 YR 5/4 yellowish brown mottles
Silty lutite with abundant forams
S.

70-72
DETRITAL SAND
10 YR 3/2 very dark grayish brown
Fine sand
S, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 3 Core No 4GGC

Lithologic Log



Detailed Description

72-95
CALC OOZE
10 YR 5/4 yellowish brown
Scattered 10 YR 6/3 pale brown mottling
Silty lutite with common forams becoming abundant below 77 cm.
1 cm. thick; 10 YR 5/3 brown layer at 79 cm; 87-89 cm. shrinkage void.
G.

95-120
CALC OOZE
10 YR 5/4 yellowish brown
Common 10 YR 5/3 brown mottling throughout.
Slightly silty lutite with scattered forams
Scattered mottles containing abundant forams
G.

120-167
CALC OOZE
10 YR 6/4 light yellowish brown
Faint 10 YR 5/3 brown mottles scattered throughout
Silty lutite with abundant forams
.5 cm 10 YR 5/3 brown lamination at 159 cm.
G, mottled.

167-175
CALC OOZE
10 YR 5/4 yellowish brown
Heavy 10 YR 4/3 brown mottling above 172 cm.
Silty lutite with abundant forams
2 large 10 YR 6/3 pale brown burrows 170-174 cm.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 4GGC

Expedition 110 Station No. 3

Leg No. 2 Total Core Length 175 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
6	CALC OOZE	1	3			45	15	35			1				
9	HIGHLY CALC CL W/DETRITUS	15	20			40	10	15			TR				
40	CALC OOZE	10	5			40	10	34			1				
65	CALC OOZE	7	3			45	5	40			TR				
71	DETRITAL SAND	87	3								10				
85	CALC OOZE	3	2			34	15	45			1				
110	CALC OOZE	6	5			45	8	35			1				
150	CALC OOZE	3	3			40	20	33			1				
174	CALC OOZE	10	4			50	10	21		TR	5				

VISUAL CORE DESCRIPTION

Page 1 of 1

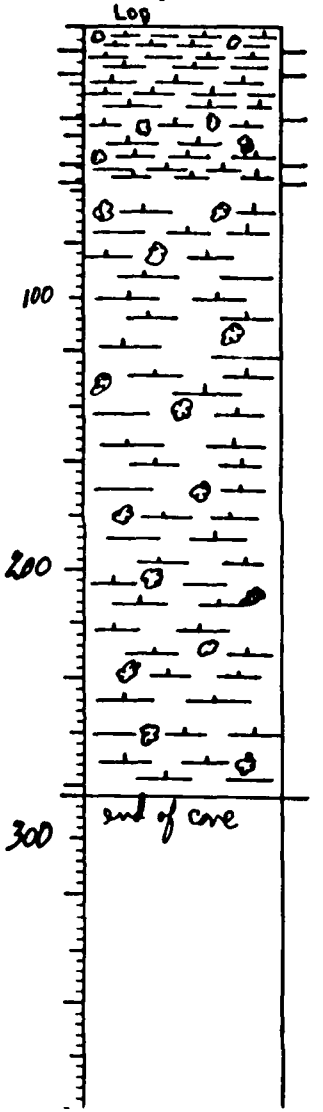
Ship Knorr Cruise 110 Leg 2 Sta. 5 Core No 5 GGC

Total Length 282 cm Lat. 5°39.5'N Long 44°16.0'W Depth 3194 m

Core condition excellent Date Described 3/10/88 by DAVU

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-8
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling of 10YR 5/4 yellowish brown and darker material throughout
smooth lutite with abundant forams
upper 3 cm slightly darker than remainder
G, horizontal

8-16
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
smooth lutite with abundant forams
G, horizontal

16-34
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown to 10YR 5/8 yellowish brown
smooth lutite with forams decreasing from common to scattered downcore
slight darkening of material downcore
G, incline 15°

34-51
CALC OOZE
10YR 4/4 dark yellowish brown
scattered mottling of dark yellowish brown material within the darker intercalated sediment
smooth lutite with few forams
intercalated bands of 10YR 4/4 dark yellowish brown material found from 38-41 and 44-47 cm.
G, incline 30°

51-58
HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown
smooth lutite with few forams
intercalated bands of 10YR 4/4 dark yellowish brown material on a very fine (mm) scale
G, incline 25°

58-282
HIGHLY CALC CLAY
2.5Y 4/4 olive brown
extensive mottling of 2.5Y 5/4 light olive brown material throughout
smooth lutite with forams common throughout
10YR 3/6 dk. yellowish brown semi-lithified material from 58-59 cm transition zone?, 2.5Y 5/6 light olive brown 1 cm wide zones at: 82, 100, 122, 129, 272, 289, 333, 369 cm.
END OF CORE..

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 5GGC

Expedition 110 Station No. 5

Leg No. 2 Total Core Length 282 cm cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	highly calc clay	1	Tr			68	3	23	1		4			Tr
13	" " "	Tr	Tr			60	4	30	Tr	Tr	6			Tr
25	" " "	Tr	Tr			72	4	17			7			Tr
45	calc ooze	1	1			63	2	30			3			
54	highly calc clay	1	2			74	1	20			2			
120	" " "	Tr	1			80	1	16			2			
200	" " "	1	Tr			70	2	23			4			
250	" " "	Tr	Tr			80	1	17			2			

VISUAL CORE DESCRIPTION

Page 1 of 1

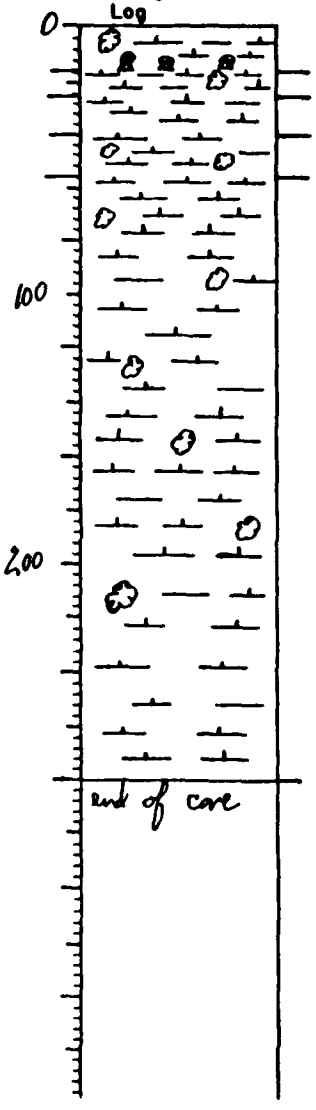
Ship Knorr Cruise 110 Leg 2 Sta. 5 Core No 6GGC

Total Length 280 cm. Lat. 5°9.6'N Long. 44°22.3'W Depth 3296 m

Core condition excellent Date Described 3/22/80 by DAH/S

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-15
HIGHLY CALC CLAY
2.5Y 4/4 olive brown into 2.5Y 6/6 olive yellow
faint mottling of slightly darker material
smooth lutite with extensive forams
basal lag of pteropod fragments in a 1 cm thick zone
S, horizontal

15-25
HIGHLY CALC CLAY
10YR 5/8 yellowish brown
faint mottling
smooth lutite with forams common
G, horizontal

25-40
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
smooth lutite with forams increasing from common to abundant downcore
lightens in color down core, sharp, inclined contact
S, incline 50°

40-56
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
scattered mottling of slightly darker material
smooth lutite with scattered forams
G, horizontal

56-280
HIGHLY CALC CLAY
2.5Y 5/6 light olive brown
scattered mottling of 10YR 5/3 brown material. Almost none in last 60 cm.
smooth lutite with forams common throughout

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 6GGC

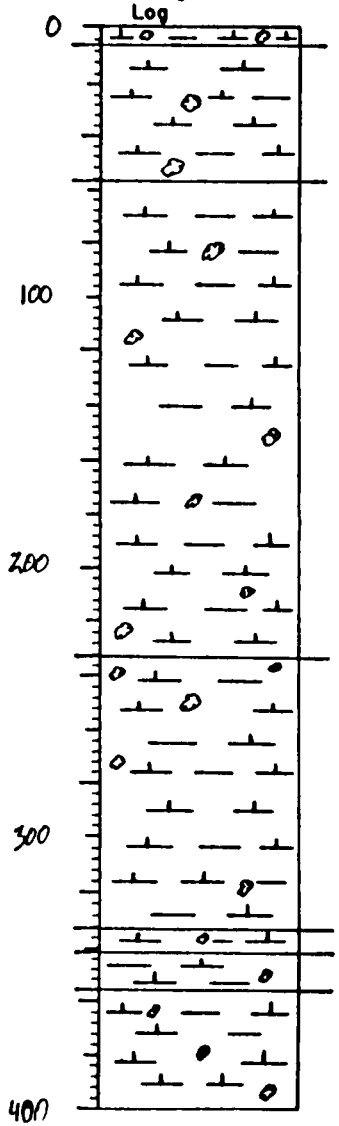
Expedition 110 Station No. 5

Leg No. 2 Total Core Length 280 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10 cm	highly calc clay	Tr	1			78	4	12	Tr		5			Tr
20	" " "	Tr	2			80	1	15			2			
30	" " "	Tr	Tr			80	1	16			3			
50	" " "	1	Tr			77	1	19			2			
120	" " "	1	Tr			79	2	15			3			
190	" " "	1	Tr			81	1	15			2			
250	" " "	1	1			80	1	15			2			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 5 Core No 7JGC
Total Length 462 cm. Lat. 5°41.8'N Long. 44°44.4'W Depth 3547 m
Core condition excellent Date Described 4/13/82 by DAVIS
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

0-6
HIGHLY CALC CLAY
10YR 7/6 yellow
common mottling throughout
lutite with abundant forams
G

6-57
HIGHLY CALC CLAY
10YR 6/6 brownish yellow
scattered mottling
lutite with common forams throughout
heavily intercalated throughout. 10YR 5/6 yellowish brown indurated layers at 43, and 54.5 cm.
S, horizontal

57-233
HIGHLY CALC CLAY
10YR 5/4 light yellowish brown
common mottling
lutite with common forams throughout
light yellowish brown sand layer from 166-170 cm seems to fine upwards. 10YR 5/6 scattered yellowish brown layers including a 1 cm thick one at 139 to 140 cm
S, irregular

233-333
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
common mottling decreasing to scattered below 282 cm
lutite with common forams, becoming abundant after approx. 274 cm.
G

333-341
HIGHLY CALC CLAY
10YR 5/4 light yellowish brown
scattered mottling
smooth lutite with scattered forams
G

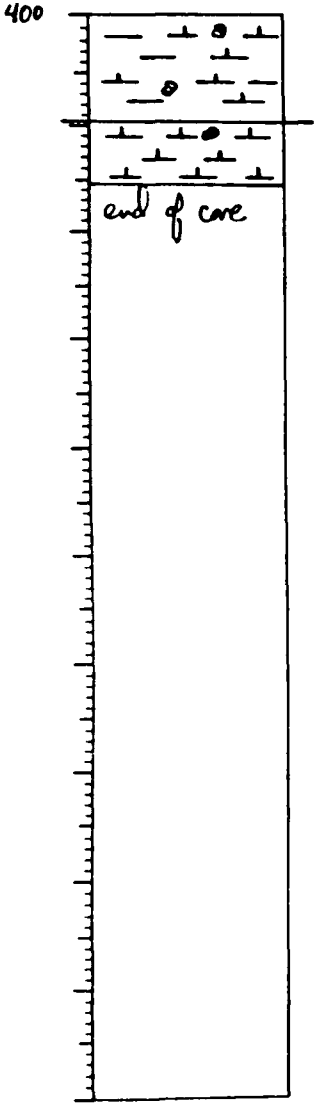
341-356
HIGHLY CALC CLAY
10YR 5/3 brown
scattered mottling
lutite with abundant forams, becoming extensive at 352 cm
S, incline

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 5 Core No 7 JGC

Lithologic Log



Detailed Description

356-439
HIGHLY CALC CLAY
10YR 5/6 yellowish brown into 10YR 6/4 light yellowish brown
common mottling
lutite with common to abundant forams
G

439-462
CALC OOZE
10YR 7/6 yellow
faint mottling if any
lutite with abundant to extensive forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 7JGC

Expedition 110 Station No. 5

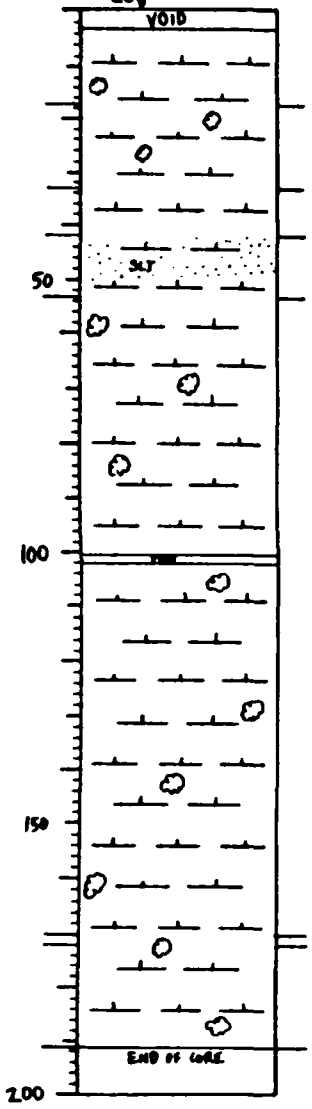
Leg No. 2 Total Core Length 462 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
5 cm	highly calc clay	Tr	1			75	3	15			6				
41	" " "	Tr	2			74	3	13			8				
100	" " "	Tr	2			73	4	11			10				
170	" " "	Tr	1			79	2	13			5				
225	" " "	Tr	1			80	3	10			6				
270	" " "	Tr	1			72	5	12			10				
336	" " "	Tr	2			79	3	9			7				
345	" " "	Tr	2			81	2	10			5				
370	" " "	Tr	3			73	4	10			10				
410	" " "	Tr	1			74	5	14			6				
445	calc ooze	Tr	2			61	12	10			15				

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 6 Core No @GGC
Total Length 191 cm. Lat. 5° 47.40' N Long. 44° 37.80 W Depth 3674 m corr.
Core condition EXCELLENT Date Described 17 JAN, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 5/3 brown grading to 10 YR 6/3 pale brown
Faint 10 YR 5/3 mottling below to 10 cm.
Silty lutite with abundant forams grading to common.
0-3 Shrinkage Void.
G.

17-33
CALC OOZE
10 YR 5/4 yellowish brown
Faint 10 YR 6/3 pale brown mottling throughout
Slightly silty lutite with common forams
10 YR 4/4 dark yellowish brown laminations below 22 cm.
S, mottled.

33-42
CALC OOZE
10 YR 3/3 dark brown except 10 YR 5/4 from 37-39 cm.
Slightly silty lutite with common forams.
S.

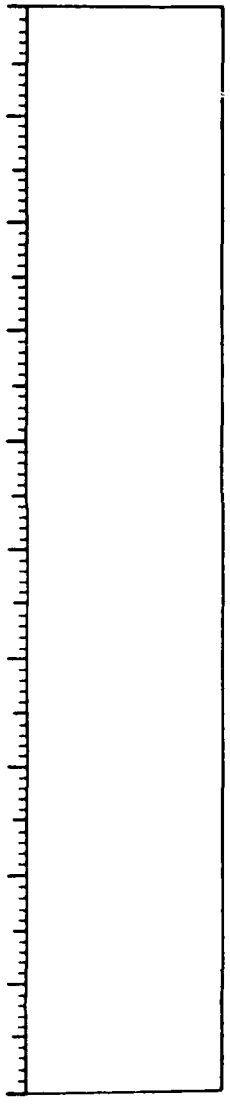
42-53
CALC OOZE WITH DETRITUS
10 YR 5/6 yellowish brown
slightly silty lutite with common forams
Few 10 YR 3/6 dark yellowish brown laminations 46-48 cm.
S.

53-170
CALC OOZE
2.5 Y 5/2 grayish brown
Common 5 Y 4/2 olive gray burrows some very large
Smooth lutite with common forams
2.5 Y N3/0 very dark gray burrows at 103, 149, 159 cm.; vertical 10 YR 5/6 yellowish brown burrow from 106-121 cm. S.V. 101-102 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 6 Core No @GGC

Lithologic Log



Detailed Description

170-172
CALC OOZE
2.5 Y 4/4 olive brown
Slightly silty lutite with common forams
S.

172-191
CALC OOZE
2.5 Y 5/2 grayish brown
Faint 5 Y 4/2 olive gray burrows - few large sized.
Slightly silty lutite with common forams
Small void at bottom of section.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 8GGC

Expedition 110 Station No. 6

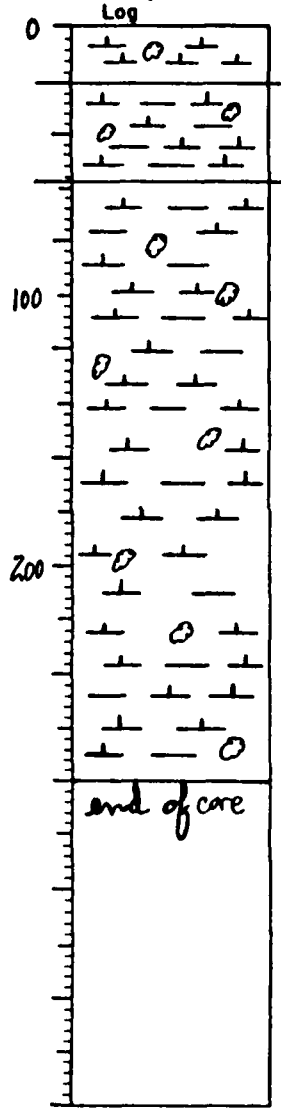
Leg No. 2 Total Core Length 191 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	1	2			40	20	34			3	TR		TR
13	CALC OOZE	2	2			30	30	30			5			1
25	CALC OOZE	2	10			40	15	31			2			
40	CALC OOZE WITH DETRITUS	15	10			40	4	30			1			
50	CALC OOZE	3	8			50	3	35			1			
90	CALC OOZE	4	2			40	7	45			2			
171	CALC OOZE	3	3			55	4	35			TR			
185	CALC OOZE	4	2			40	8	45			1			

VISUAL CORE DESCRIPTION

Ship KNORR Cruise 110 Leg 2 Sta. 7 Core No 9GGC
Total Length 200 cm. Lat. 5°49.62'N Long 44°35.13'W Depth 3643 m
Core condition excellent Date Described 12/29/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-20
CALC OOZE
7.5YR 6/6 reddish yellow
scattered mottling
lutite with abundant forams
G

20-58
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
common mottling
smooth lutite with common forams
heavily intercalated throughout with darker colored layers. Also base of unit is a 0.5 cm thick, 7.5YR 5/6 strong brown indurated layer.
S, horizontal

58-280
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
common mottling throughout
smooth lutite with common forams
1 cm thick ice rafted 10YR 5/8 yellowish brown layers found at 227, and 247 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 9GGC

Expedition 110 Station No. 7

Leg No. 2 Total Core Length 280 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13 cm	calc ooze	1	3			56	13	10			17			
44	highly calc clay	1	4			73	3	12			7			
120	" " "	1	2			70	7	8			12			
200	" " "	1	2			76	4	9			8			
265	" " "	2	2			79	1	10			6			

VISUAL CORE DESCRIPTION

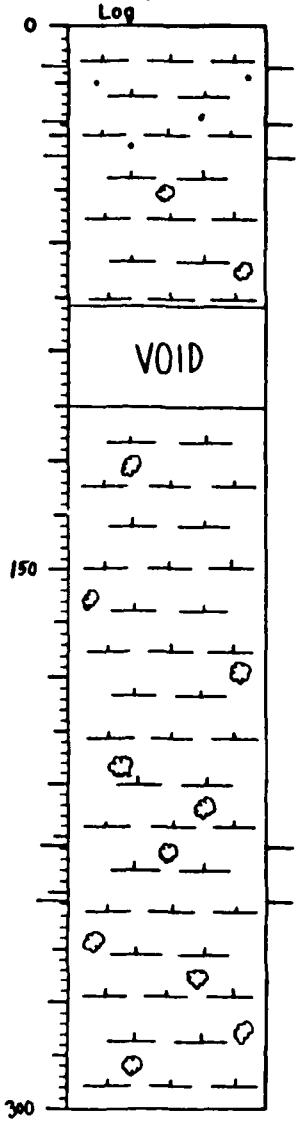
Ship KNR Cruise 110 Leg 2 Sta. 7 Core No 10 J6C

Total Length 437 cm. Lat. 5° 50.45' N Long. 44° 35.26 W Depth 3659 m corr.

Core condition EXCELLENT Date Described 10 JAN 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-10
CALC OOZE
10 YR 6/4 light yellowish brown.
Silty lutite with abundant forams.
G

10-26
CALC OOZE
10 YR 4/4 dark yellowish brown
Slightly silty lutite with common forams.
Few 10 YR 3/3 dark brown laminations at 20, 22 and 26 cm.
S.

26-36
CALC OOZE
10 YR 4/6 dark yellowish brown
Slightly silty lutite with scattered forams
Many 10 YR 3/3 laminations throughout. 4 thin 10 YR 5/6 yellowish brown laminations, 2 at top of unit, 2 at unit base.

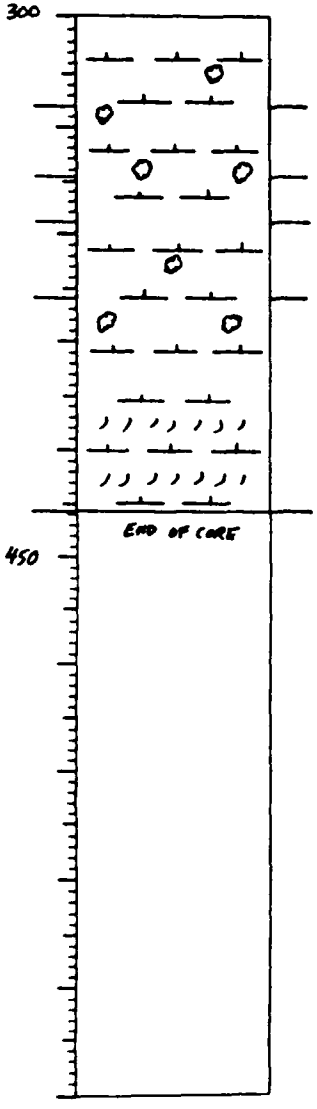
36-227
CALC OOZE
2.5 Y 5/2 grayish brown
common 2.5 YR 4/2 dark grayish brown ;mottles and some large burrows; extensive mottling below 190 cm.
Slightly silty lutite with common forams
Few 1.5 YR 5/6 laminations most notable at 129, 160, 176-178 cm.
G, mottled.
Void 77-105 cm.
Section 4 missing.

227-242
CALC OOZE
2.5 Y 6/2 light brownish gray
Faint 2.5 Y 5/2 grayish brown mottling
Slightly silty lutite with scattered forams.
Large 2.5 N2/ black burrow, vertically oriented. 236-239 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 7 Core No 10 TGC

Lithologic Log



Detailed Description

242-324
CALC OOZE
2.5 Y 5/4 light olive brown grading to 2.5 YR 6/4 light yellowish brown.
Faint 2.5 Y 4/4 mottling above 280 cm.
Slightly silty lutite with scattered forams except common from 300-315 cm.
Few 10 YR 5/6 yellowish brown streaks from 260-265 cm.
Shrinkage void 243-255 cm.
S.

324-343
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 2.5 Y 4/2 dark grayish brown mottles and burrows throughout.
Smooth lutite with scattered forams
.5 cm 10 YR 4/6 dark yellowish brown lamination at 325 c.; .5 cm 2.5 YR 4/2 dark grayish brown wavy lamination at base of unit.

343-357
CALC OOZE
2.5 Y 6/2 light brownish gray.
Scattered 2.5 Y N5/ gray mottles and streaks.
Silty lutite with abundant forams.
Thin 2.5 Y N5/ gray wavy lamination at 353 cm.
G.

357-378
CALC OOZE
10 YR 5/4 yellowish brown
Faint 2.5 N5/gray mottles scattered throughout.
Slightly silty lutite with scattered forams.
1 cm. 10 YR 4/6 dark yellowish brown at 361 cm; thin laminations of same color at 370 and 377 cm.
S.

378-437
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 5/4 olive brown.
Few 2.5 Y 4/2 dark grayish brown mottles/burrows above 400 cm.
Thin 2.5 Y N3? lamination at 391 unit displays wavy cross bedding at major colors below 400 cm. with few 2.5 Y 5/6 light olive brown laminations from 423-430; Shrinkage void 392-395 cm convex upward void from 433-437.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 10JGC

Expedition 110 Station No. 7

Leg No. 2 Total Core Length 437 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	3			15	40	40			1			1
18	CALC OOZE	TR	7			40	7	45			1			
30	CALC OOZE	3	7			45	4	40			1			
120	CALC OOZE	5	1			45	5	43			1			
230	CALC OOZE	3	2			48	10	35			2			
290	CALC OOZE	2	3			47	8	40			TR			
335	CALC OOZE	4	2			53	10	30			1			
350	CALC OOZE	2	1			20	65	11			1			
370	CALC OOZE	2	5			40	7	45			1			
410	CALC OOZE	3	3			38	10	45			1			
433	CALC OOZE	3	2			44	4	45			2			

VISUAL CORE DESCRIPTION

Page 1 of 1

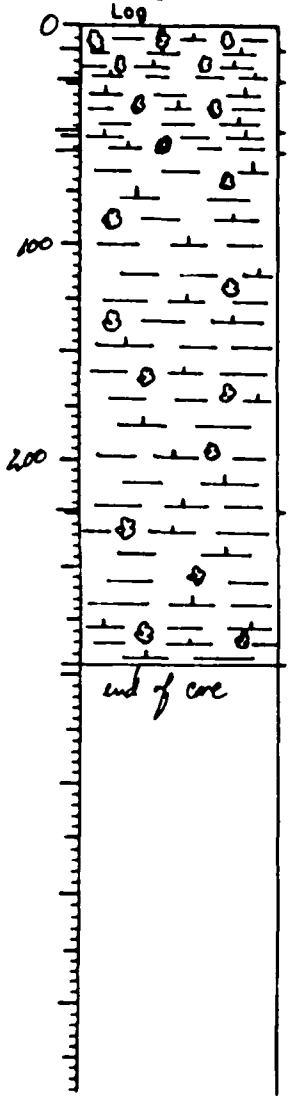
Ship Knorr Cruise 110 Leg 2 Sta. 8 Core No 11 GGC

Total Length 295 cm. Lat. 5°53.1' N Long 44°30.32' W Depth 3729 m

Core condition excellent Date Described 4/MB by DAVIS

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-10

CALC OOZE
2.5Y 5/6 light olive brown into 10YR 5/3 brown
mottling common throughout interval with brown sediment
lutite with abundant forams
S, convex upward

10-24

CALC OOZE
2.5Y 4/4 olive brown into 2.5Y 5/6 olive brown
scattered mottling throughout
lutite with abundant forams into smooth lutite at 19 cms.
pronounced decrease in forams at 19 cms.
S, horizontal

24-48

HIGHLY CALC CLAY
mainly 10YR 5/4 yellowish brown with 10YR 3/3 dark brown areas
mottling throughout with 2.5Y 5/6 light olive brown
smooth lutite with few forams throughout
S, incline 7°

48-57

HIGHLY CALC CLAY
10YR 3/4 dark yellowish brown zones with 2.5Y 5/6 light olive brown between
faint mottling
semi-lithified areas with smooth lutite and few forams between
glacial to interglacial transition zone?
S, convex upward

57-224

HIGHLY CALC CLAY
2.5Y 5/4 light olive brown with 2.5Y 5/2 grayish brown mottles present; 10YR 3/4 dark yellowish brown zones (few) also found
mottling common throughout
lutite with forams common throughout
S, horizontal

224-295

CALC CLAY TO HIGHLY CALC CLAY
1 cm thick 10YR 3/4 dark yellowish brown zone at top, then 2.5Y 4/4 olive brown with 2.5Y 5/2 grayish brown mottles
mottles scattered throughout unit
smooth lutite with scattered forams becoming common below 260 cm. END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 11GGC

Expedition 110 Station No. 8

Leg No. 2 Total Core Length 295 cm

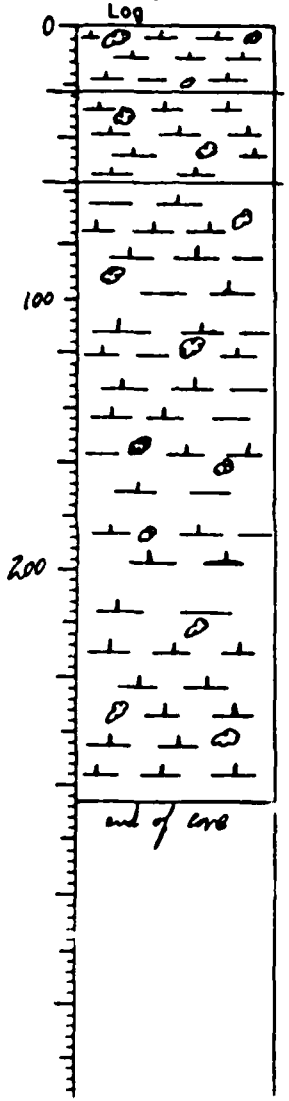
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
5 cm	calc ooze	Tr	Tr			55	12	25			7			1	
18	" "	Tr	Tr			55	20	20			5			tr	
35	highly calc clay	Tr	2			70	4	21			3				
53	" " "	Tr	2			78	2	15			3				
105	" " "	Tr	Tr			72	3	20	1		4				
160	" " "	1	Tr			60	2	25			3				
225	calc clay		2			85	Tr	12			1				
270	highly calc clay	Tr	1			73	2	20			4				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 9 Core No 12GGC
Total Length 286 cm Lat. 5°58.01'N Long 44°23.68'W Depth 3969m
Core condition excellent Date Described 12/29/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-23
HIGHLY CALC CLAY
10YR 6/6 brownish yellow
common mottling near top, to scattered downcore
lutite with abundant forams
G

23-57
CALC OOZE
10YR 5/6 yellowish brown
mottling common
lutite with common forams
heavily intercalated throughout interval, bottom 10 cm contain several 10YR 5/8 yellowish brown layers, including very distinct one at base
S, horizontal

57-286
HIGHLY CALC CLAY TO CALC OOZE
10YR 6/4 light yellowish brown
mottling common
lutite with common forams
numerous 10YR 5/8 yellowish brown layers, including 77, 80, 120, 172, 213-214, 244, 253-256, 263, 274 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

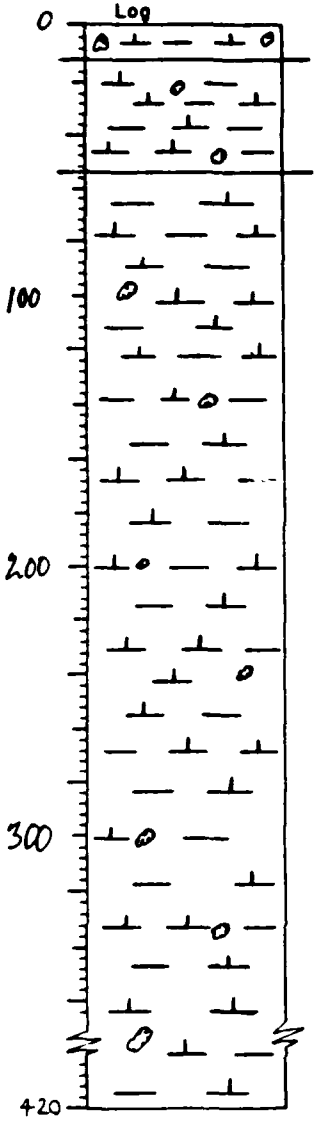
Ship: Knorr Core No 12GGC
Expedition 110 Station No. 9
Leg No. 2 Total Core Length 286 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	highly calc clay	1	2			71	4	14			8			Tr
45	calc ooze	2	2			66	8	10			12			
110	highly calc clay	1	3			71	5	12			8			
190	" " "	1	2			77	2	13			5			
260	calc ooze	1	2			64	6	12			15			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 9 Core No 13JGC
Total Length 442 cm Lat. 5°56.76'N Long. 44°27.8'W Depth ____
Core condition excellent Date Described 1/24/89 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-12
HIGHLY CALC CLAY
10YR 6/3 pale brown
common mottling
lutite with abundant forams
G

12-54
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
common to scattered mottling
lutite with common forams
interval is heavily intercalated throughout, and
bottom-most 2 cms semi indurated
10YR 4/6 dark yellowish brown material
S, incline 10°

54-442
HIGHLY CALC CLAY
2.5Y 6/4 light yellowish brown to 10YR 5/3 brown
common mottling
lutite with common forams except abundant forams
from 415-427 cm
numerous 10YR 4/6 dark yellowish brown layers,
including 298-299,363-366,428-440 cm

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

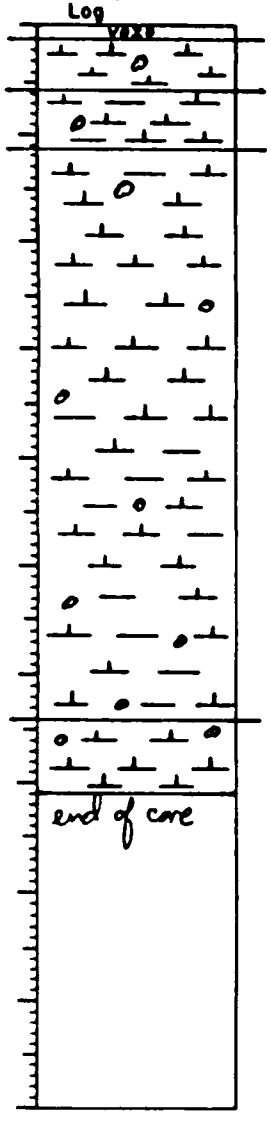
Ship: Knorr Core No. 13JGC
Expedition 110 Station No. 9
Leg No. 2 Total Core Length 442 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8 cm	highly calc clay	Tr	1			73	10	9			7			Tr
30	" " "	Tr	2			69	8	11			10			
49	" " "	Tr	3			79	3	11			4			
120	calc clay	Tr	1			84	3	8			4			
200	highly calc clay	Tr	1			82	2	12			3			
280	" " "	Tr	1			76	5	10			8			
350	" " "	Tr	2			73	6	9			10			
420	" " "	Tr	Tr			70	8	10			12			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 10 Core No 14GGC
Total Length 284 cm. Lat. 6°05.58'N Long 44°21.5'W Depth 4019 m
Core condition excellent Date Described 4/18/80 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-5
VOID

5-23
CALC OOZE
10 YR 5/6 yellowish brown
scattered mottling
lutite with abundant forams
G

23-46
HIGHLY CALC CLAY
10YR 5/8 yellowish brown with many darker intercalations
scattered mottling
lutite with common forams
unit is extensively intercalated, basal 5 cm is 10YR 4/6 dark yellowish brown indurated material
S, arcuate

46-257
CALC OOZE INTO HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
common mottling
lutite with common forams
at 175 cm - 0.5 cm thick 10YR 5/4 yellowish brown layer, underlain by a 3 cm thick 10YR 4/6 dark yellowish brown layer with irregular base
G

257-284
CALC OOZE
2.5Y 5/4 light olive brown
common mottling to 270 cm, then none to base of core
lutite with common forams
from 279 cm to base is 10YR 4/6 dark yellowish brown stained with few, small, semi-indurated pieces of sediment

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

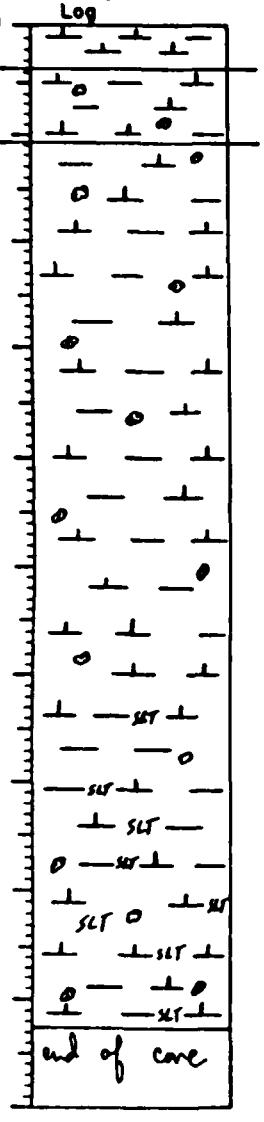
Ship: Knorr Core No. 14GGC
Expedition 110 Station No. 10
Leg No. 2 Total Core Length 284 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	calc ooze	Tr	1			64	12	8			15			Tr
36	highly calc clay	Tr	3			73	3	15			6			
85	calc ooze	Tr	4			63	6	9			18			
170	highly calc clay	Tr	2			75	3	15			5			
240	" " "	2	1			75	5	9			8			
270	calc ooze	Tr	1			63	12	8			15			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 11 Core No 15GGC
Total Length 370 cm. Lat. 6°06.5'N Long. 99°13.2'W Depth 4285
Core condition Excellent Date Described 4/13/88 by DAMI
Physiographic location Ocean Rise



Detailed Description

0-15

HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
faint mottling
lutite with abundant forams
G

15-43

CALC CLAY
10YR 5/4 yellowish brown
faint to common mottling
lutite with common to scattered forams
10YR 4/4 dark yellowish brown intercalations from 24-33 cm. 10YR 4/6 dark yellowish brown indurated debris area from 34-43 cm.
S, horizontal

43-370

CALC CLAY INTO SLIGHTLY THEN HIGHLY CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown
common mottling downcore
lutite with common to scattered forams
color variations downcore, numerous 10YR 4/6 dark yellowish brown "stained" areas throughout. Distinct 10YR 3/3 dark brown fine sand layers at 241-244, 262-265, and 277 cm. From 240 cm to base of core 2.5Y 5/4 light olive brown sediment dominates the olive brown material.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 15GGC
Expedition 110 Station No. 11
Leg No. 2 Total Core Length 370 cm

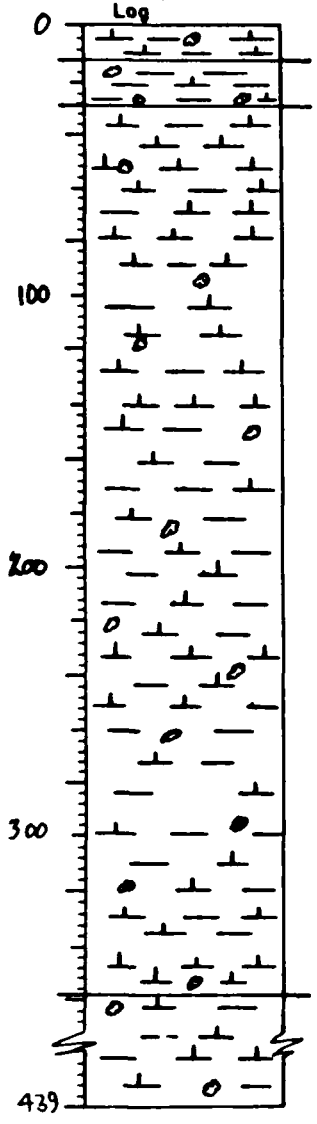
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10 cm	highly calc clay	Tr	1			73	5	9			12			Tr
27	calc clay	Tr	2			84	2	8			4			
90	" "	5	3			81	Tr	8			3			
170	" "	2	2			82	1	10			3			
260	slightly calc clay w/detritus	8	2			88		Tr			2			
340	highly calc clay w/detritus	12	2			67	2	14			3			

VISUAL CORE DESCRIPTION

Page 1 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 11 Core No 16JGC
Total Length 439 cm. Lat. 6°02.45'N Long. 44°13.8'W Depth 4336m
Core condition Excellent Date Described 11/3/82 by Davis
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-12

HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered mottling
lutite with abundant forams
G

12-29

SLIGHTLY CALC CLAY
10YR 4/4 dark yellowish brown with 10YR 2/2 very dark brown from 19-21 cm. From 21-29 cm the above two colors are intercalated
scattered to common mottling
lutite with few to scattered forams
middle region heavily intercalated with very dark brown material. Bottom 8 cm intercalated very dark brown with dark yellow brown
S, convoluted (irregular)

29-358

SLIGHTLY TO CALC CLAY BOUNDED BY HIGHLY CALC CLAY
2.5Y 5/2 grayish brown
common mottling
lutite with common forams
10YR 3/3 dark brown fine sand layers at 159-161, 174-177, 336-337 cm., fining upwards evident. Other thin (< .25 cm.) sand layers present. Numerous 10YR 4/6 dark yellowish brown "stained" areas down to about 280 cm.
G

358-439

CALC CLAY
2.5Y 5/4 light olive brown except from 381-392 and from 429 to end of core which is 2.5Y 5/2 grayish brown
common mottling throughout except from 369-380 and from 408-426 where the mottling is faint to scattered
lutite with scattered to common forams
10YR 4/6 dark yellowish brown semi-indurated, debris layers at 381 and 389 cm. Each <1 cm thick . Intercalated from 382 to 389 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

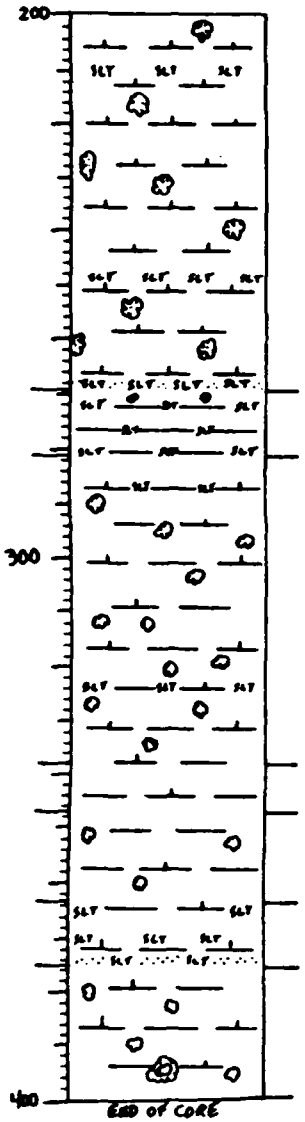
Ship: Knorr Core No. 16JGC
Expedition 110 Station No. 11
Leg No. 2 Total Core Length 439 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8 cm	highly calc clay	Tr	1			75	4	10			10			Tr
24	slightly calc clay	12	3			82					3			
80	highly calc clay	Tr	2			76	3	11			8			
170	slightly calc clay	12	1			83	Tr				4			
260	calc clay	10	2			81	Tr	2			5			
350	highly calc clay	9	3			61	2	10			15			
375	calc clay	3	1			84	2	6			4			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 12 Core No 1766C

Lithologic Log



Detailed Description

113-126
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Faint 2.5 Y 4/2 olive gray mottles
Smooth compact lutite with few forams
Unit contains two silty laminations at 118 cm and at 124-126 cm (forms basal contact) 5 Y 4.5/2 dark olive gray.
S.

126-182
CALC CLAY WITH DETRITUS
5 Y 5/3 olive grading to 2.5 Y 4/2 dark grayish brown
Common to extensive 5 Y 4.5/2 dark olive brown and 5 Y 4/2 olive gray mottles throughout.
Moist slightly silty lutite with scattered forams grading to few except within mottles.
2.5 Y 4/2 dark grayish brown silty laminations at 142, 161-164, 178-182 cm.
Void 150-152 cm.
S, I, 5°.

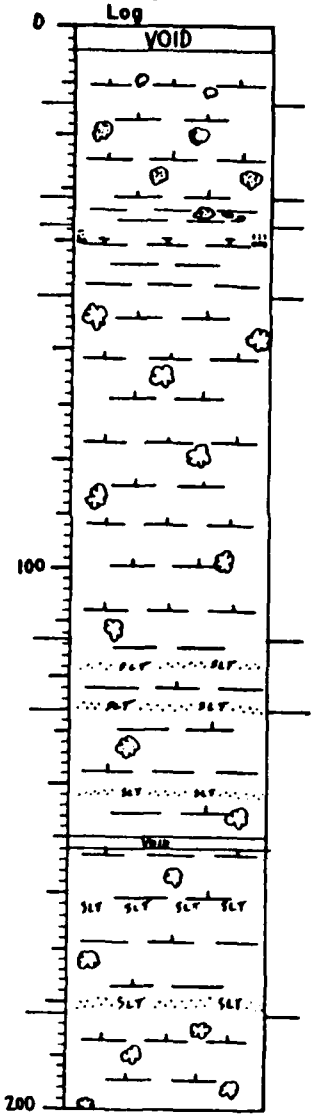
182-269
CALC OOZE
5 Y 5/2 olive gray
Extensive 5 Y4/2 olive gray and 2.5 Y 5/2 grayish brown mottling with intercalation; mottles contain common forams.
Slightly silty lutite with few forams
Several horizontal regions are tainted by 2.5 Y 5/6 olive brown silty lutite. Unit contains a few intact worm trails. Silty laminations evident at 210, 249, 268-269 cm; shell fragments at 260 cm.
S.

269-281
UNFOSS CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Faint 5 Y 4/2 olive gray mottles above 272 cm.
Silty lutite with scattered forams disappearing below 272 cm.
Three silt/fine sand laminations at 272-273 cm, 276-277 cm and 280-281 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 12 Core No 1766C
Total Length 400 cm. Lat. 6° 13.83' N Long 44° 19.29' W Depth 4466 m corr.
Core condition EXCELLENT Date Described 26 JAN 1990 by P. MILLS
Physiographic location EAST FLANK, CEARA RISE

Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 5/3 brown grading to 10 YR 6/3 pale brown
Very faint 10 YR 5/3 brown mottles below 6 cm.
Silty lutite with abundant forams
Shrinkage void 0-4 cm.
C.

14-32
10 YR 5/4 yellowish brown grading through 10 YR 4/3, 10 YR 3/3 to 10 YR 3/2 very dark brown
Extensive mottling with intercalation of all major colors
Silty lutite with common forams grading to moist slightly silty lutite with few forams
S, I, 10°.

32-37
UNFOSS CLAY/MICRONODULES WITH DETRITUS
5 Y 4/2 olive gray and 2.5 Y 4/4 olive brown
Moist silty lutite with large pieces of lithified material
Unit contains what appear to be manganese oxide chunks
S, I, 10°.

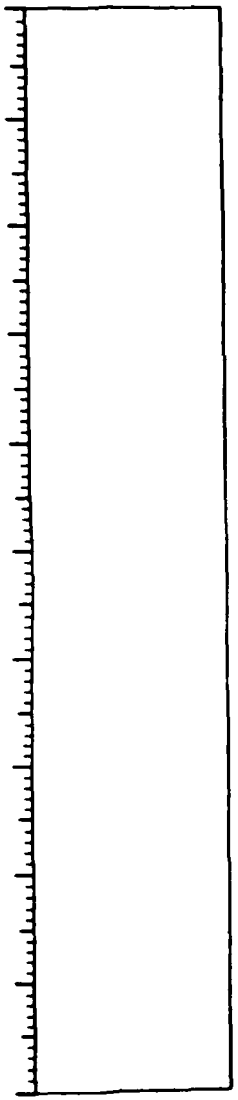
37-50
UNFOSS CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Few 5 Y 4/2 olive gray mottles
Moist slightly silty lutite with few forams
Silty mottles from 35-38 cm.; silty bed grading to foram sand at 39-41 cm.
S, mottled.

50-113
CALC OOZE
5 Y 5/3 olive
Many large 5 Y 4/2 mottles/burrows throughout
Smooth moist lutite with scattered forams
Several horizontally oriented regions tainted by 2.5 Y 5/6 olive brown (in streaks); scattered worm trails left intact.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 12 Core No 17GGC

Lithologic Log



Detailed Description

281-338
HIGHLY CALC CLAY DETRITUS
5 Y 5/2 olive gray
Extensive 5 Y 4/2 olive gray and 5 Y 4/1 dark gray mottles throughout
Silty lutite with scattered forams in the regions 281-293 cm and 305-314 cm and 324-337 cm.
Silt/fine sand laminations at 287 cm and 324 cm.; scattered 2.5 5/6 olive tainted regions most notably from 313-320 cm.
S.

338-347
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Silty lutite becoming very silty and grading to a silty foram sand at 346 cm.
Well graded bed; silty laminations at 342 - 346 cm.
S.

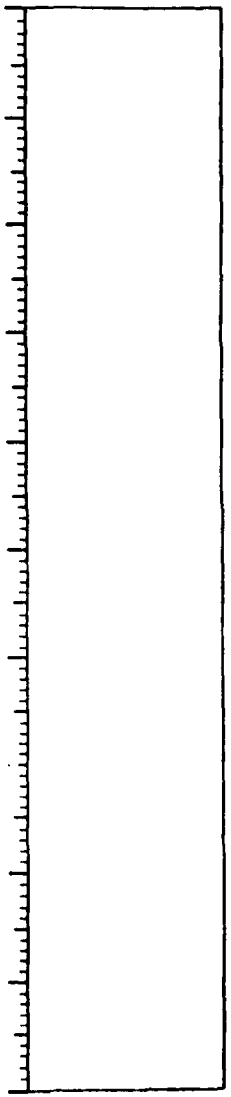
347-363
SLIGHTLY CALC CLAY/DETRITUS
5 Y 5/3 olive
Faint 5 Y 4/1 dark gray mottles near top and base of unit.
Smooth lutite with scattered forams above 353 cm. with grades to silt at base.
.5 cm thick 10 YR 4/6 dark yellowish brown wavy lamination at 359 cm.
G.

363-375
CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Silty lutite grading to silt/fine sand
Two thin silt laminations at 365 and 370.; bottom 2 cm. of unit is silt/fine sand
S, eroded.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 12 Core No 17GGC

Lithologic Log



Detailed Description

375-400
CALC CLAY/DETRITUS
5 Y 4/2 olive gray
Faint 2.5 Y 4/2 dark grayish brown mottles scattered throughout
Smooth lutite grading to silty lutite at 383, 391, and at bottom of core.
Large 10 YR 5/4 yellowish brown and 10 YR 3/2 very dark grayish brown burrow at 395-398 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 17

Expedition 110 Station No. 12

Leg No. 2 Total Core Length 400 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE	TR	2			40	20	35		TR	2	TR		1
22	CALC OOZE	3	4			45	2	45		TR	1	TR		TR
34	UNFOSS CLAY MICRONODULES	10	30			60		TR			TR			
	WITH DETRITUS													
45	UNFOSS CLAY/ DETRITUS	80	1			19		TR			TR			
85	CALC OOZE	3	2			63	1	30			1			
120	SLIGHTLY CALC CLAY/DETRITUS	70	1			26		1			2			
155	CALC CLAY W/ DETRITUS	25	2			64	1	7			1			
225	CALC OOZE	7	2			50	2	36			3			
275	UNFOSS CLAY/ DETRITUS	83	2			15		TR						
310	HIGHLY CALC CL/DETRITUS	30	3			40	3	23			1			
346	SLIGHTLY CALC CLAY/DETRITUS	84				8	2	1			5			
360	SLIGHTLY CALC CLAY/DETRITUS	70	5			22	TR	3			TR			
372	CALC CLAY / DETRITUS	72	3			20	1	4			1			
390	CALC CLAY/ DETRITUS	60	1			32	2	4			1			

VISUAL CORE DESCRIPTION

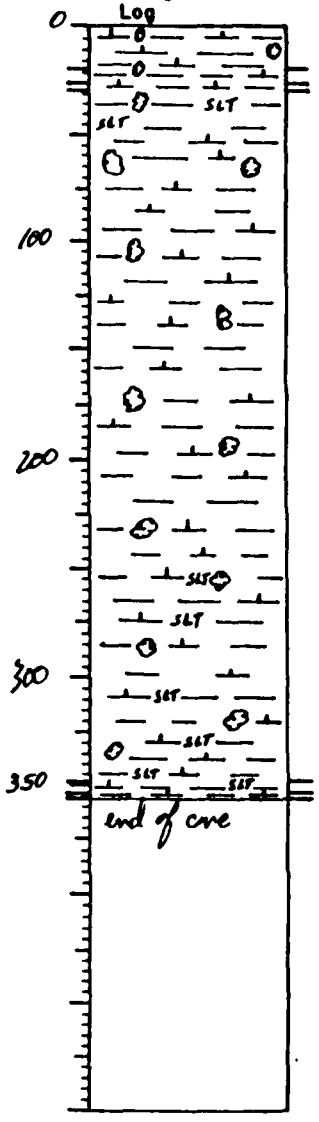
Ship Knorr Cruise 110 Leg 2 Sta. 12 Core No 1866 e

Total Length 356 cm Lat. 6°18.65'N Long. 44°03.39'W Depth 4276 m

Core condition excellent Date Described 2/26/82 by Davis

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-18
CALC OOZE
10YR 5/8 yellowish brown
faint mottling with 2.5Y 5/4 light olive brown material to 5 cm depth
lutite with scattered forams
S, horizontal

18-25
SLIGHTLY CALC CLAY
10YR 2/2 very dark brown
common mottling from 18-21 cm of yellowish brown sediment with very dark brown sediment
smooth lutite
S, incline 30°

25-28
CALC CLAY
10YR 4/6 dark yellowish brown
semi-lithified at top, to smooth lutite
S, incline 30°

28-349 HIGHLY CALC CLAY GRADES TO CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown with interbedded 10YR 4/6 dark yellowish brown zones and 2.5Y 4/2 dark grayish brown silty areas
olive brown is commonly mottled with slightly darker lutite
smooth lutite with zones of silty lutite. Few to scattered forams throughout
thin (0.5 cm) 10YR 4/6 dark yellowish brown areas at 56,80,87,109,120,162,208,239, 318 cms. Silty areas at 32.5, 113,125,154,167, 187, 278,282,286 cms.
S, horizontal

349-354
CALC CLAY DETRITUS
5Y 4/3 olive
very silty with a silty lutite from 350-351.5 cm with no gradation between
S, horizontal

354-356
HIGHLY CALC CLAY
5Y 4/4 olive
smooth lutite, few forams
S, horizontal

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 18GGC

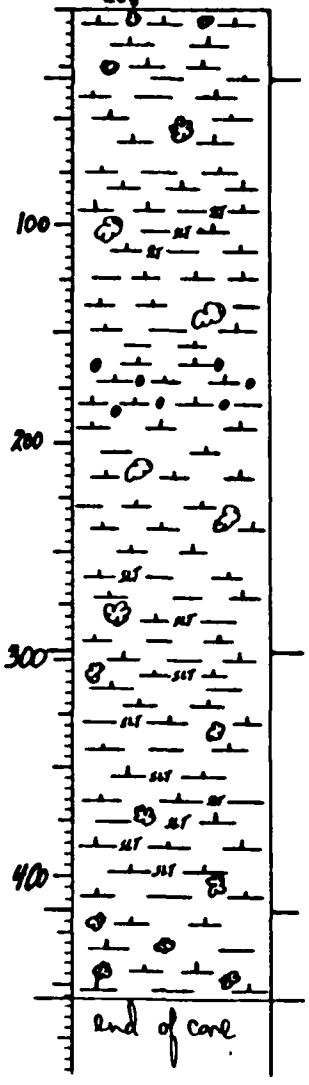
Expedition 110 Station No. 13

Leg No. 2 Total Core Length 356 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3 cm	calc ooze		2			61	4	30			3	Tr		
13	" "		4			40	20	35			1			
20	slightly calc clay	5	10			79	1	4			1			
26	calc clay	2	3			87	Tr	7			1			
33	unfossiliferous clay w/detritus	15	3			82		Tr			Tr			
47	highly calc clay	3	2			75	1	19			1			
50	" " "	1	1			75	1	20			2			
140	calc clay	7	1		Tr	80	1	10			1			Tr
190	" "	Tr	Tr			87	Tr	10			3			
254	calc clay w/ detritus	30	5			50	1	10			4			Tr
305	slightly calc clay /detritus	40	3			55	Tr	Tr			2			
349	calc clay/ detritus	41	5			49	1	2			3			Tr
355	highly calc clay	4	2			70	3	20			1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 13 Core No 19JGC
Total Length 457 cm. Lat. 6°18.33'N Long 44°01.18'W Depth 4574 m
Core condition excellent Date Described 6/80 by DAVIS
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

0-30

CALC OOZE
10YR 6/4 light yellowish brown darkening to 10YR 5/6 yellowish brown
scattered mottling in uppermost 7 cm., faintly mottled from 7-24 cm
smooth lutite with common forams, 27-30 cm has few forams
24-30 cm fairly heavily intercalated
S, horizontal

30-296

REPETITIOUS LAYERS OF CALC CLAY, HIGHLY CALC CLAY (WITH MN MICRONODULES IN SOME PLACES), AND CALC CLAY WITH DETRITUS AT THE BASE OF THE UNIT
unit consists of repeating layers of 10YR 5/3 brown lutite, 10YR 5/4 yellowish brown lutite, gradations between these 2 colors, and many strong 7.5YR 5/8 brown units also
mottling of 10YR 5/3 brown material scattered to common throughout
In general, a smooth lutite with scattered to no forams, except 10YR 5/3 brown areas, which lacks forams. From 40-85 cm forams are concentrated in burrows.
7.5YR 5/8 strong brown, thin, mostly < 1.0 cm., layers at 68,76,82,84,104,114,128,133,159-160,199, 206,208,213,232-233,237,245-246, and 282 cm. One similar layer at approx 52 cm, originally horizontal, was disturbed during coring and is now located along one wall of the liner, extending in a lenticular fashion inward a maximum of 1.5 cm. Zones of abundant Mn micronodules also present. Each individual layer is a maximum of approx 7 cm thick.

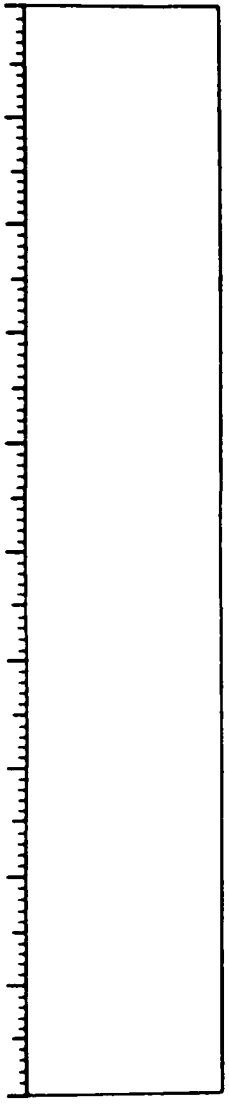
296-415

CALC CLAY WITH DETRITUS
As above, except with the addition of 10YR 4/3 brown, and 10YR 3/3 dark brown silt layers.
mottling of 10YR 5/3 brown material scattered to common throughout
this interval is similar to the above, except with the addition of distinct silt layers throughout the interval at: 296, 317-318, 330,336-339, 341-344,355,376,401,409,414cm.
S, incline 20°

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 13 Core No 19JGC

Lithologic Log



Detailed Description

415-457

HIGHLY CALC CLAY
10YR 5/3 brown with some slight variations
mottling common throughout interval
smooth lutite with forams common down to 425 cm, then some concentrated in burrows. Few forams in remainder of core.
similar to above, but without silt layers. 7.5YR 5/8 strong brown layers at 437,454 cm. Mn micronodule rich layer at 415-430 cm. Slightly silty from 455-457 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 19JGC

Expedition 110 Station No. 13

Leg No. 2 Total Core Length 457 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)														
		Inorganic Material					Biogenous Material									
		Silt & Sand					Calcareous					Siliceous				
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	calc ooze	Tr	Tr			67	5	16			12			Tr
53	slightly calc clay	3	6			89		Tr			2			
80	calc clay	1	Tr			87	Tr	11			1			
150	" "	4	Tr			83	Tr	10			3			
225	highly calc clay with Mn nodules	Tr	20			54	1	23			2			
243	highly calc clay	1	Tr			76	1	19		Tr	3			
294	calc clay w/ detritus	15	Tr		Tr	75		8			2			
336	" "	20	1			64	Tr	13			2			
420	highly calc clay	Tr	2			71	2	23			2			

VISUAL CORE DESCRIPTION

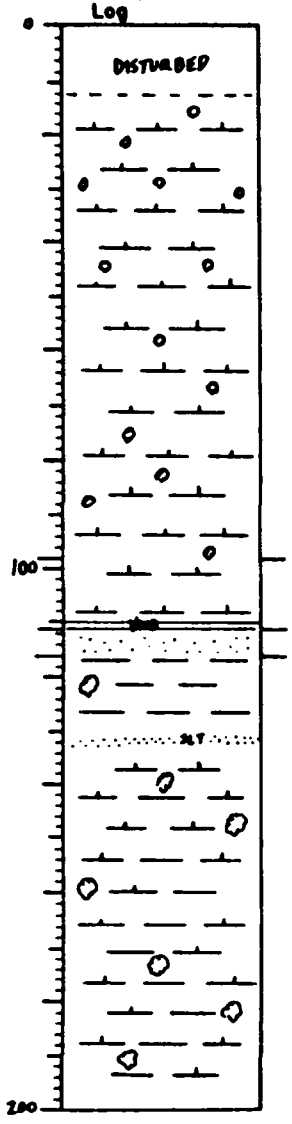
Ship KNR Cruise 110 Leg 2 Sta. _____ Core No 20666

Total Length 335 cm. Lat. 6° 12.77' N Long. 91° 05.92' W Depth 4489 m corr.

Core condition EXCELLENT Date Described 18 JAN, 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-98
CALC OOZE
10 YR 5/3 brown
Faint but extensive 10 YR 4/2 dark grayish brown mottling with intercalation
Silty moist lutite with abundant forams
Few large burrows scattered throughout unit
0-12 cm. disturbed
G.

98-111
CALC OOZE
10 YR 5/4 yellowish brown grading to 10 YR 3/2 very dark grayish brown
Faint 10 YR 5/3 mottling above 105 cm.
Slightly silty lutite with scattered forams; no forams below 105 cm.
Shrinkage void 110-111 cm.
S, I, 20°.

111-116
CALC CLAY/DETRITUS
2.5 Y 4/4 olive brown
Very silty lutite
Several semi-lithified beds .5 to 1 cm. thick seperated by 10 YR 3/4 dark yellowish brown laminae
S, I, 20°.

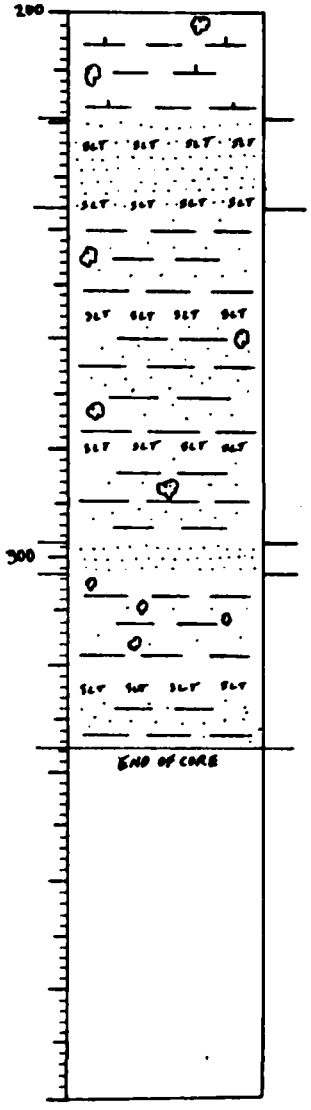
116-219
CALC OOZE
5 Y 5/2 olive gray
Extensive 5 YR 4/2 olive gray burrows, many large
Smooth lutite with few forams
silty layer 132-133 cm..; few 10 YR 4/6 laminae notably at 148, 153, 182 cm.
S.

219-236
DETRITAL GRAINS
5 Y 4/2 olive gray
Smooth lutite with silty laminae
Silty beds at 225-227, 231, 236 cm.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 14 Core No 20666

Lithologic Log



Detailed Description

236-297
UNFOSS CLAY/DETRITUS
5 Y 4/2 olive gray
Scattered 5 Y 3/2 dark olive gray mottles throughout
Slightly silty lutite with scattered forams
Few 2.5 Y 4/4 olive brown laminations most notably 252, 270, 292 cm., large burrows at 270 cm. and 289 cm.; silty laminations at 256, 280 cm.
S.

297-303
DETRITAL GRAINS
2.5 Y 3/2 very dark grayish brown
Very silty lutite grading to fine sand;scattered forams
S.

303-335
UNFOSS CLAY/DETRITUS
5 Y 4/2 olive gray grading to 2.5 Y 4/2 dark grayish brown
Faint mottling above 323 cm. with intercalation of major colors
Smooth lutite with few forams; no forams below 320 cm.
Silty laminations 323-324 cm. disturbed fine sand layer at base of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 20GGC

Expedition 110 Station No. 14

Leg No. 2 Total Core Length 335 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13	CALC OOZE	2	2			40	15	39			1	TR		1
60	CALC OOZE	1	2			42	10	42		TR	3	TR		TR
105	CALC OOZE	5	6			50	3	35		TR	1			TR
115	CALC CLAY/ DETRITUS	78	2			5	15*				1			
175	CALC OOZE	7	2			36	2	50			3			
230	DETRITUS	90	2			6	1				1			
275	UNFOSS CLAY/ DETRITUS	65	4			30					1			
302	DETRITUS	96				1	1	TR			2			TR
320	UNFOSS CLAY/ DETRITUS	25	2			73								
334	UNFOSS CLAY/ DETRITUS	63	3			30		2			1			TR
						*	Altered							

VISUAL CORE DESCRIPTION

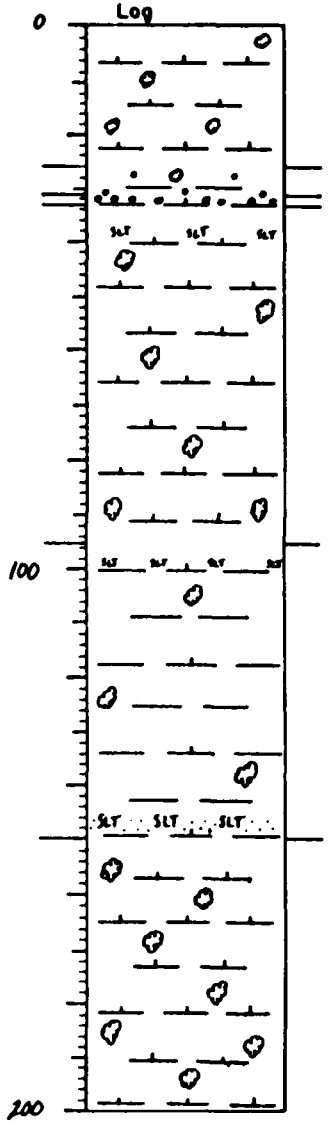
Ship KNR Cruise IID Leg 2 Sta. 15 Core No 21GGC

Total Length 384 cm. Lat. 6°07.99' N Long 44.04.55' W Depth 4366 - corr.

Core condition Good Date Described 19 MAR 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-26

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation
Slightly silty lutite with abundant forams grading to common
0-3 cm. void
G.

26-31

UNFOSS CLAY/MICRONODULES WITH DETRITUS
10 YR 2/2 very dark brown with 10 YR 4/4 dark yellowish brown
Few 10 YR 4/4 mottles
Slightly silty lutite with few forams
S.

31-33

SLIGHTLY CALC CLAY/DETRITUS WITH MICRONODULES
10 YR 2/1 black
Lithified and semi-lithified chunks
Unit is disturbed and has a rubble-like appearance
S.

33-95

CALC OOZE
2.5 Y 6/3 light yellowish gray brown
Common 2.5 Y 5/2 grayish brown mottles throughout; many are large
Smooth lutite with common forams
Mottles contain greater concentration of forams than surrounding lutite; thin 10 YR 4/6 dark yellowish brown silty lamination at 38 cm.; regions from 56-59 cm. and 80-84 cm. tinged with 10 YR 4/6
G.

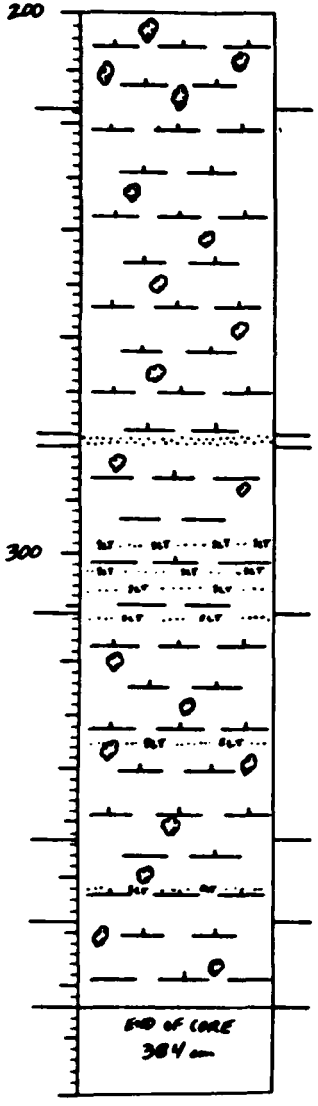
95-150

SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4.5 /2 grayish brown
Scattered 2.5 Y 4/2 dark grayish brown mottles
Smooth lutite with few forams
Unit is silty from 98-99 cm. and from 145-150 cm; 10 YR 4/6 dark yellowish brown laminations at 100, 107, 119, 138 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise NO Leg 2 Sta. 15 Core No 21GGC

Lithologic Log



Detailed Description

150-217
CALC OOZE
2.5 Y 5/2 grayish brown
Extensive 2.5 Y 4/2 dark grayish brown mottling;. many large
Smooth lutite with common forams
Several regions tinged with 10 YR 4/6 dark yellowish brown most notably 161-176, 191, 207 cm.
G.

217-278
CALC OOZE
5 Y 4/2 olive gray
Common 2.5 Y 4/2 dark grayish brown mottles, many large
Several regions tinged with 2.5 Y 4/4 olive brown most concentrated from 222-224, 269 cm. and scattered elsewhere
S.

278-280
DETRITUS
2.5 Y 3/2 very dark grayish brown
Very silty lutite with few forams near base
S.

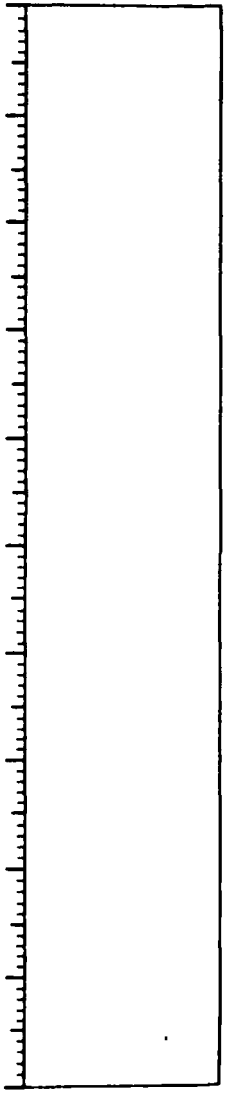
280-311
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Few 5 Y 4/2 olive grey mottles above 292 cm.
Slightly silty lutite with few forams
Unit contains few silty laminations at 298-299, 303, 307, 312 cm.
S.

311-353
CALC OOZE
2.5 Y 5/2 grayish brown
Common 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with scattered forams becoming very silty at unit base
Region from 318-321 cm. tinged with 10 Y 4/4 dark yellowish brown and contains some black lithified bits; silty laminations at 313, 335 cm.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 15 Core No 21 GGC

Lithologic Log



Detailed Description

353-368
CALC CLAY WITH DETRITUS
2.5 Y 4/2 dark grayish brown
Few 5 Y 4/2 olive gray mottles
Silty lutite with few forams
Few silty laminations 361-364 cm; 2.5 Y 4/4 laminations 359 cm.
G, mottled.

368-384
HIGHLY CALC CLAY
2.5 Y 5/3 grayish brown
Scattered 5 Y 4/2 olive gray mottles
Slightly silty lutite with common forams
10 YR 4/4 lamination at 372 cm.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 21 GGC

Expedition 110 Station No. 15

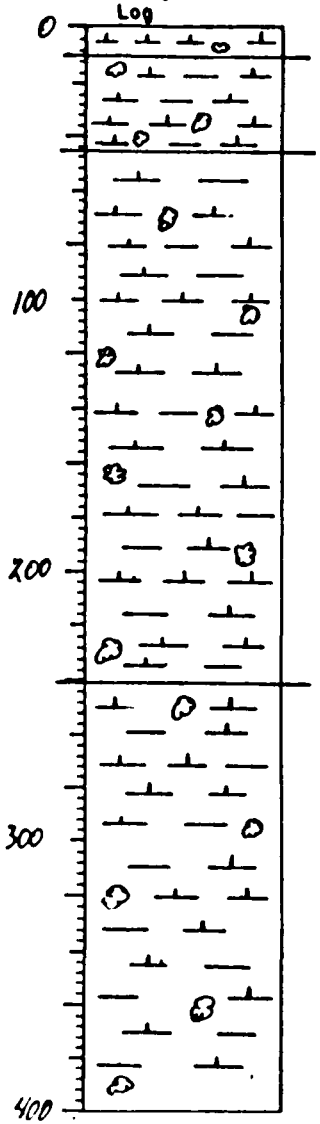
Leg No. 2 Total Core Length 384 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	TR	5			30	20	40	2	TR	1	2		TR
20	CALC OOZE	1	10			32	15	40		TR	2	TR		
29	UNFOSS CLAY MICRONODULES W/DETRITUS	25	35			40					TR			
32	SLIGHTLY CALC CLAY/DETRITUS WITH MICRO-NODULES	35	25			39		1						
70	CALC OOZE	4	3			50	1	42			TR			
125	SLIGHTLY CALC CLAY/DETRITUS	40	2			54		4						
185	CALC OOZE	10	3			50	2	35						
250	CALC OOZE	5	4			55	3	33			TR			
279	DETRITUS	97				3	TR	TR						
295	SLIGHTLY CALC CLAY/DETRITUS	40	3			55	TR	2						
329	CALC OOZE	8	2			50	1	39			TR			
359	CALC CLAY W/ DETRITUS	25	1			64	TR	10						
380	HIGHLY CALC CL	4	2			65	1	26	TR	TR	2			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta 15 Core No 22 JGC
Total Length 451 cm. Lat 6°02.56'N Long 44°39.84'W Depth 3371 m
Core condition Excellent condition Date Described 10/19/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-10
CALC OOZE
10YR 6/4 light yellowish brown
faint mottling
lutite with abundant forams
G

10-46
CALC CLAY INTERCALATED WITH HIGHLY CALC CLAY
7.5YR 5/4 brown and 7.5YR 3/2 dark brown from 32-37 cm.
faint mottling at top of section becoming common at about 20 cm
lutite with common forams
extensively intercalated with 7.5YR 3/2 dark brown material from 32-37 cm., common intercalating from 38-39 cm, 41-43 cm., 7.5YR 5/6 strong brown, some semi-intercalated from 39-40, 44-46 cm.
S, incline 20°

46-241
CALC CLAY TO HIGHLY CALC CLAY
10YR 5/2 grayish brown to 10YR 5/3 brown. Varies throughout section
mottling of 10YR 5/3 brown material common throughout section
smooth lutite with forams ranging from common to scattered , concentrations of forams in burrows also found.
7.5YR 5/6 strong brown areas from 56-57, 83-84, 105-106, 117-118, 143-145,170-171, 199-201, 211-212, 230-231, and last 0.5 cm of this unit. Areas of concentrated micronodules also found.
S, horizontal

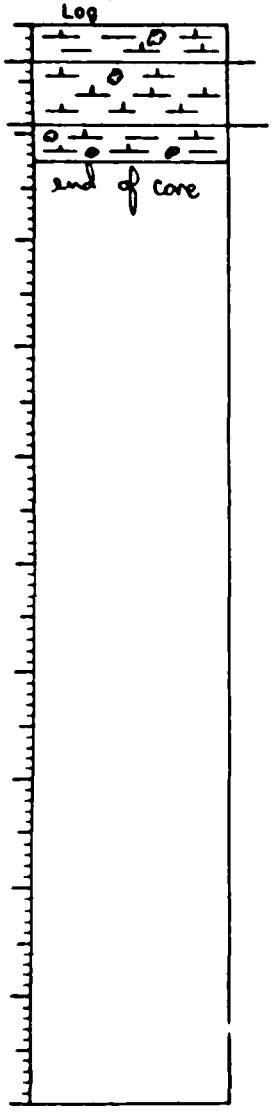
241-413
HIGHLY CALC CLAY
shades of 10YR 5/2 grayish brown to 10YR 5/3 brown throughout
mottling of 10YR 5/3 brown material common throughout section
smooth lutite with common forams, foram concentrations are also found in burrow infillings
this unit is similar to the one above it, but includes layers of 10YR 4/2 dark grayish brown silt to very fine sand. These layers are found at 243-245, 272-273, 374-375, 378-379, 386-387, 404-406, 407-408 cm.
G

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 15 Core No 22 JGC

Lithologic Log



Detailed Description

413-437

CALC OOZE
10YR 5/3 brown
faint to no mottling throughout unit
smooth lutite with forams scattered to common
C

437-451

HIGHLY CALC CLAY
10YR 5/2 grayish brown
scattered mottling becomes common below 442 cm.
smooth lutite with forams becoming common below 446 cm.
very faint 7.5YR 5/6 strong brown layer from 437-440 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 22JGC

Expedition 110 Station No. 15

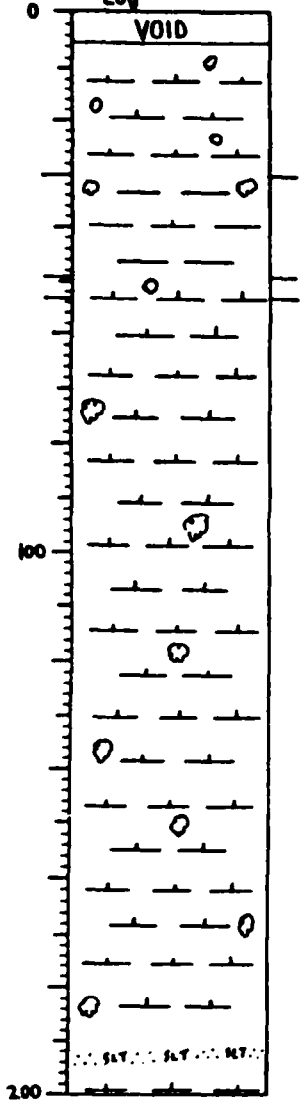
Leg No. 2 Total Core Length 451 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6 cm	calc ooze	Tr	Tr			66	8	16	Tr		10			Tr
13	" "	Tr	1			66	6	17			10			Tr
25	highly calc clay	1	2			70	4	14			10			Tr
35	calc clay	13	7			65	Tr	11			4			Tr
40	highly calc clay	1	1			73	2	20			3			
85	calc clay	17	Tr			69	2	8			4			
90	highly calc clay	2	Tr			68	3	22			5			
150	calc clay	15	Tr			68	Tr	13			7			
160	highly calc clay	8	Tr			74	1	14			3			
230	" " "	15	1			65	Tr	15			5			
290	" " "	10	2			61	Tr	12			15			
384	" " "	8	1			70	Tr	11			15			
430	calc ooze	2	Tr			61	5	12			20			
447	highly calc clay	1	Tr			74	5	10			10			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 16 Core No 23 GGC
Total Length 382 cm. Lat. 6° 01.82 N Long. 94° 04.62 W Depth 4209 m corr.
Core condition EXCELLENT Date Described 4 JAN. 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-30
CALC OOZE
10 YR 5/3 brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation of major colors
Silty lutite with common forams grading to scattered
Shrinkage void 0-5 cm.
S.

30-49
HIGHLY CALC CLAY/DETRITUS
10 YR 4/4 dark yellowish brown except 10 YR 3/3 dark brown from 37-40 cm.
Common 10 YR 5/4 yellowish brown mottling above 37 cm.
Slightly silty lutite with scattered forams
Unit shows many horizontal laminations with slight variations in color.
S.

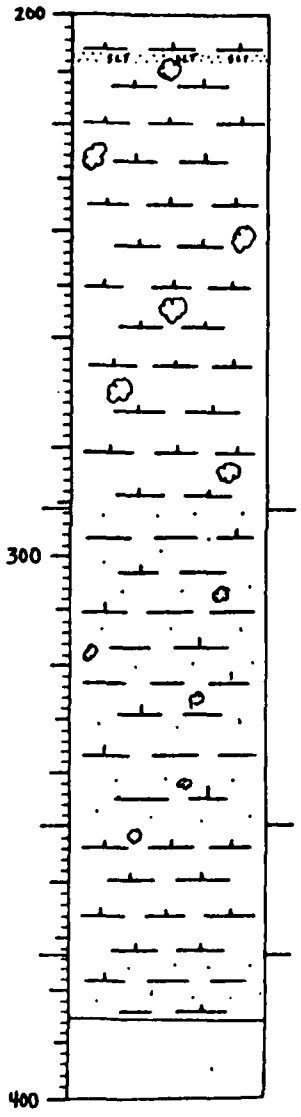
49-53
CALC OOZE
10 YR 5/6 yellowish brown
Few faint 5 Y 4/2 olive gray mottles
Slightly silty lutite with scattered forams
Top and bottom .5 cm of unit are slightly lithified

53-291
CALC OOZE
10 YR 5/3 brown
Many large 5 Y 4/2 olive gray mottles/burrows throughout
Slightly silty moist lutite with common forams
Scattered regions tainted with 10 YR 5/6 yellowish brown most notably 114, 165, 254 cm.; two silt to fine sand beds 193-195 cm. and 206-208 cm.; shrinkage void 150-154 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 16 Core No 23 GGC

Lithologic Log



Detailed Description

291-294
UNIFOSS CLAY/DETRITUS
10 YR 4/6 dark yellowish brown
Few 5 Y 4/2 mottles
Slightly silty lutite with semi-lithified laminations
S, mottled.

294-350
SLIGHTLY CALC CLAY WITH DETRITUS
10 YR 5/3 brown becoming slightly lighter below 336 cm.
Common 5 Y 4/2 mottles/burrows; some large
Slightly silty lutite with few forams
G, mottled.

350-373
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 2.5 Y 5/2 grayish brown mottles above 360 cm.; faint 2.5 Y N4/mottles below 360 cm.
G.

373-382
SLIGHTLY CALC CLAY WITH DETRITUS
2.5 Y 5/4 light olive brown
Faint 2.5 Y N5/gray mottles
Slightly silty moist lutite with few forams
Several 10 YR 5/6 yellowish brown streaks and regions throughout.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 23GGC

Expedition 110 Station No. 16

Leg No. 2 Total Core Length 382 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	2	4			25	20	45			2			2
18	CALC OOZE	TR	3			31	20	45			1			
42	HIGHLY CALC CLAY/DETRITUS	40	4			30	4	21			1			TR
51	CALC OOZE	4	2			41	2	50			1			
120	CALC OOZE	4	2			36	3	55			1			
207	DETRITAL GRAINS	96	TR			2		TR			2			
293	UNFOSS CLAY/ DETRITUS	25	15			60		TR						
330	SLIGHTLY CALC CL W/DETRITUS	25	3			69		3			TR			
360	CALC OOZE	2	1			60	15	20			2			
380	SLIGHTLY CALC CL W/DETRITUS	20	2			75		1			2			

VISUAL CORE DESCRIPTION

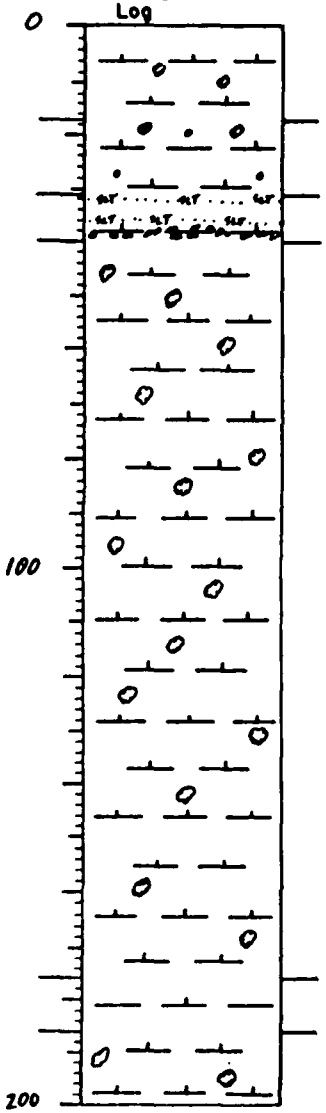
Ship KNR Cruise NO Leg 2 Sta. 17 Core No 24 JGC

Total Length 366 cm. Lat. 600.28 N Long 49°05.57 W Depth 4135 m corr.

Core condition EXCELLENT Date Described 16 MAR 1990 by P MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-17

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation
Silty lutite with forams grading from abundant to common
C.

17-31

HIGHLY CALC CLAY/MICRONODULES
10 YR 4/3 brown but 10 YR 6/4 light yellowish brown below 25 cm.
Scattered 10 YR 6/3 pale brown mottles above 22 cm.
Slightly silty lutite with common forams
Many 10 YR 3/3 dark brown laminations
S.

31-40

HIGHLY CALC CLAY
10 YR 5/6 yellowish brown but 2.5 Y 5/2 grayish brown from 34-37 cm.
Slightly silty lutite with scattered forams
Silty laminations at 32, 36 cm.; 37-40 cm. is semi-lithified layer with high manganese content
S.

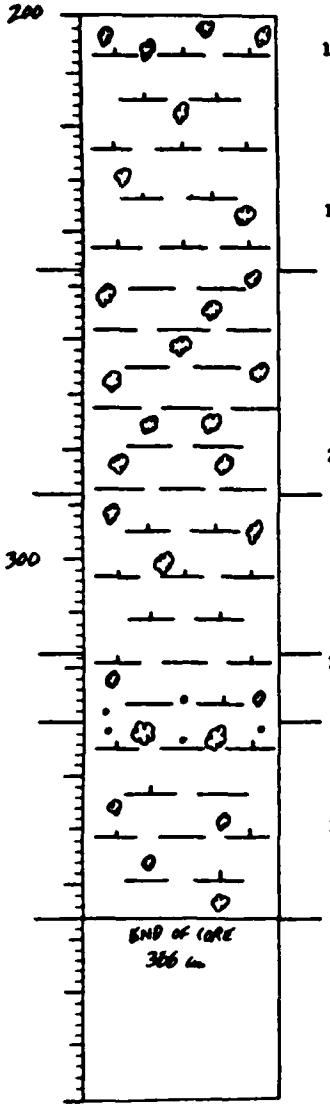
40-176

CALC OOZE
2.5 Y 6/2 light brownish gray with varying degrees of 2.5 Y 6/4 light yellowish brown
Common to extensive 2.5 Y 4.5/2 grayish brown mottling throughout
Slightly silty lutite with common forams
Several laminations tinged with 10 YR 5/6 yellowish brown most notably at 47, 118-119, 143-146, and 166 cm.
C.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 17 Core No 24 JGC

Lithologic Log



Detailed Description

176-186
SLIGHTLY CALC CLAY WITH DETRITUS
2.5 Y 5/2 grayish brown
Slightly silty lutite with few forams
Few laminations tinged with 2.5 Y 5/6 light olive brown
G, mottled.

186-247
CALC OOZE
2.5 Y 6/3 light grayish brown
Scattered 2.5 Y 4.5/2 grayish brown mottling except extensive from 200-210 cm.
Slightly silty lutite with common forams
Many small 10 YR 4/2 dark grayish brown mottles from 200-240 cm.; region from 222-226 cm. tinged with 10 YR 4/6 dark yellowish brown and shows lamination at 225 cm.
G.

247-288
UNFOSS CLAY WITH DETRITUS
2.5 Y 5/3 grayish brown
Extensive 2.5 Y 4/2 dark grayish brown mottling
Smooth lutite with scattered forams
Scattered 10 YR 4/2 dark grayish brown mottles throughout; region from 252-256 cm. is 10 YR 4/6 and contains common micronodules
G, mottled.

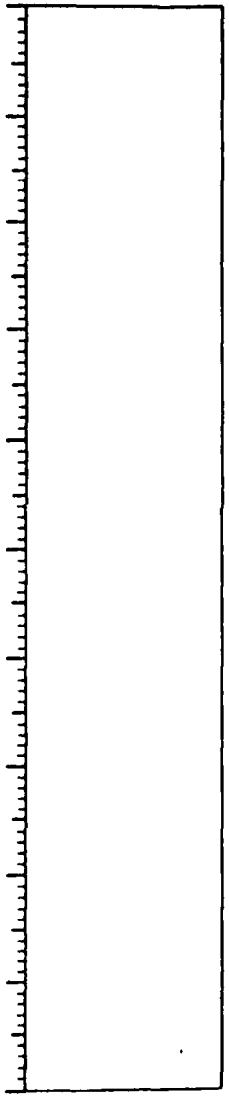
288-317
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 2.5 Y 5/2 grayish brown mottles above 305 cm.
Slightly silty lutite with scattered forams
Void 300-303 cm.

317-330
HIGHLY CALC CLAY
2.5 Y 6/3 light grayish brown
Faint 2.5 Y N4/dark gray mottles
Slightly silty lutite with scattered forams
Dark gray lamination at 318 cm.; 325-330 cm. becomes 10 YR 5/6 yellowish brown with some visible micronodules
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 17 Core No 24 JGC

Lithologic Log



Detailed Description

330-366
HIGHLY CALC CLAY
2.5 Y 6/3 light brownish gray
Few large 2.5 Y 5/2 mottles above 337 cm; elsewhere scattered with few 10 YR 5/3 brown mottles
Silty lutite with common forams
Few micronodules above 333 cm.

END OF CORE.

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 24 JGC

Expedition 110 Station No. 17

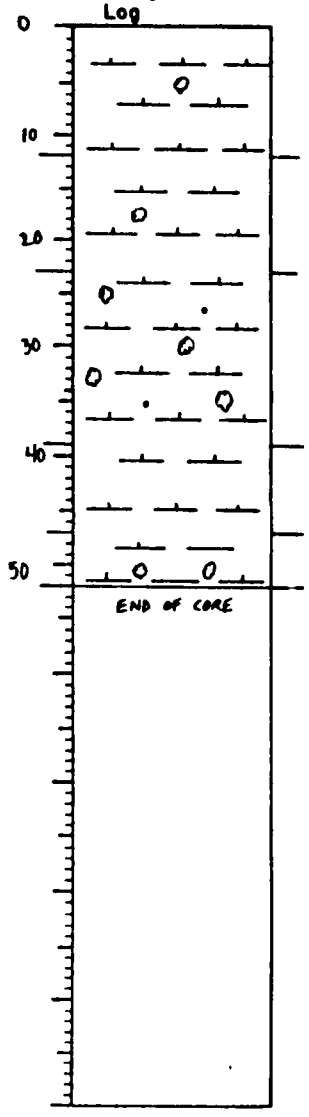
Leg No. 2 Total Core Length 366 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	2	4			40	20	30	2	TR	1	1	TR	TR
24	HIGHLY CALC CL /MICRONODULES	5	30			40	TR	22			3			
35	HIGHLY CALC CLAY	1	5			65	3	25			1			
110	CALC OOZE	2	3			50	6	38			1			
162	CALC OOZE W/ DETRITUS	15	4			40	5	36			TR			
182	SLIGHTLY CALC CL W/DETRITUS	20	5			70	1	4						
215	CALC OOZE	8	1			60	5	25			1			
265	UNFOSS CLAY W/DETRITUS	15	2			83		TR			TR			
308	CALC OOZE	3	1			55	10	31			TR			
325	HIGHLY CALC CLAY	8	4			70	TR	15			3			
361	HIGHLY CALC CLAY	1	1			75	7	15			1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 18 Core No 25 GGC
Total Length 52 cm. Lat. 5° 43.43' N Long 44° 02.93 W Depth 4031 m corr.
Core condition EXCELLENT Date Described 22 JAN 19?? by P MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 6/3 pale brown
Faint 10 YR 5/1 gray mottling
Silty lutite with abundant forams
G, mottled.

12-23
CALC OOZE
10 YR 5/4 yellowish brown
Faint 10 YR 6/3 pale brown mottles throughout
Slightly silty lutite with common forams
G.

23-39
CALC OOZE
10 YR 4/4 dark yellowish brown and 10 YR 4/3 dark brown
Scattered 10 YR 5/4 yellowish brown ;mottling and intercalation of major colors
Slightly silty lutite with common forams
Few micronodules?
S.

39-47
CALC OOZE
10 YR 5/6 yellowish brown
Few 10 YR 4/4 dark yellowish brown mottles
Slightly silty lutite with common forams
S.

47-52
HIGHLY CALC CLAY
10 YR 5/6 yellowish brown
Few faint 2.5 Y 4/2 dark grayish brown mottles near unit base
Silty lutite with scattered forams
Unit exhibits several laminations; semi-lithified lamination at base

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 23GGC

Expedition 110 Station No. 10

Leg No. 2 Total Core Length 52 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			30	25	40		TR	2			1
18	CALC OOZE	TR	3			35	15	45			1			1
33	CALC OOZE	5	9			32	8	45			1			
43	CALC OOZE	5	4			43	7	50			1			
50	HIGHLY CALC CL	5	4			68	3	20		TR				

VISUAL CORE DESCRIPTION

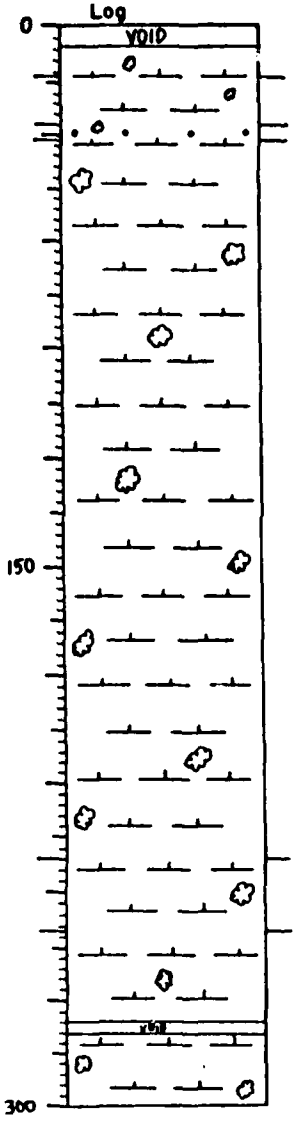
Ship KNR Cruise 110 Leg 2 Sta. 10 Core No 26 GGC

Total Length 474 cm. Lat. 5° 32.22 N Long. 41° 02.51 W Depth 4025 m corr

Core condition EXCELLENT Date Described 22 JAN, 1979 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 5/3 brown
Few faint 10 YR 5/1 gray mottles
Silty lutite with abundant forams
Shrinkage void 0-5 cm.
G.

13-27
CALC OOZE
10 YR 5/4 yellowish brown
Few 10 YR 5/3 brown mottles above 20 cm.
Slightly silty lutite with scattered forams
Several 10 YR 3/3 dark brown laminations
G.

27-31
CALC OOZE WITH MICRONODULES
10 YR 5/6 yellowish brown
Faint 5 Y 4/2 olive gray mottles
Silty lutite with few forams
Slightly lithified lamination at top of unit
S.

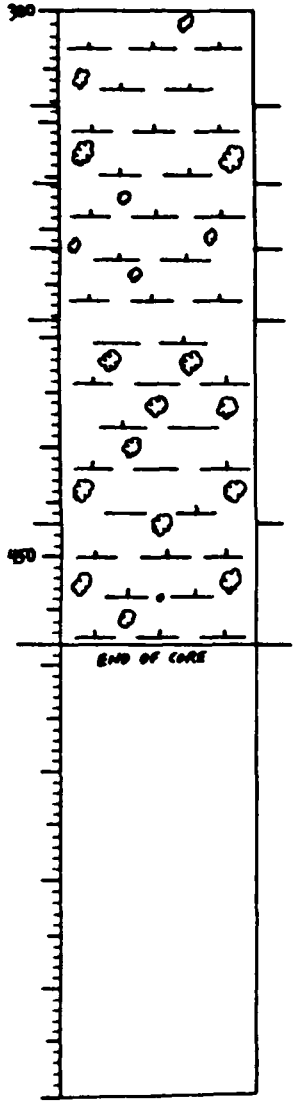
31-231
CALC OOZE
10 YR 5/4 light olive brown
Common 5 Y 4/2 olive gray mottles/burrows; some large
Slightly silty lutite with common forams
Few regions tinged by 10 YR 5/6 yellowish brown most notably at 94, 172, 194 cm.
G.

231-250
CALC OOZE
2.5 Y 6/2 light brownish gray
Scattered 2.5 Y N4/dark gray and 2.5 Y 4/2 dark grayish brown mottles
Silty lutite with abundant forams
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 18 Core No. 26 GGC

Lithologic Log



Detailed Description

250-325
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 5 Y 4/2 olive gray mottles/burrows
Slightly silty lutite with common forams
Region from 258-263 cm. tinged by 10 YR 5/6 yellowish brown; shrinkage void 276-279 cm.
G.

325-347
CALC OOZE
2.5 y 5/2 grayish brown
Many large 5 Y 4/2 olive gray mottles/burrows
Smooth lutite with scattered forams
G, mottled.

347-365
CALC OOZE
2.5 Y 6/2 light brownish gray
Scattered 2.5 Y N5/gray mottles becoming faint near bottom of unit
Silty lutite with abundant forams
S, mottled.

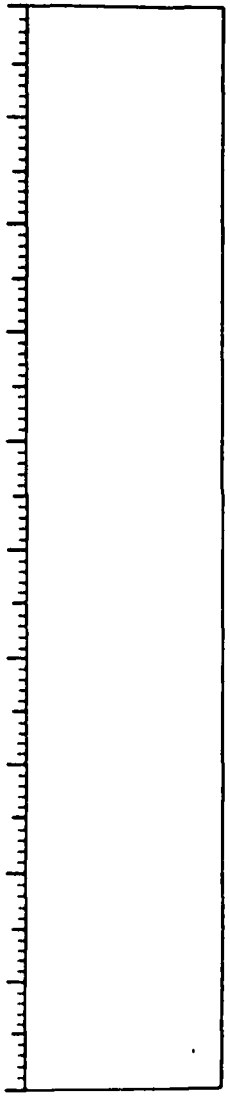
365-385
CALC OOZE
10 YR 5/4 yellowish brown and 10 YR 5/6 yellowish brown
Scattered 2.5 Y 6/2 light brownish gray mottles above 372 cm.; scattered 10 YR 4/6 dark yellowish brown mottles below 374 cm.
Slightly silty lutite with common forams
Several 10 YR 4/6 laminations in unit notably at 365, 370 and 380-385 cm.
S.

385-441
HIGHLY CALC CLAY
5 Y 5/2 olive gray
Extensive 5 Y 4/2 olive gray mottles/burrows; many large
Smooth lutite with scattered forams
Few regions tinged with 2.5 Y 5/6 light olive brown
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 18 Core No 26 GGC

Lithologic Log



Detailed Description

441-474
CALC OOZE
2.5 Y 5/2 grayish brown
Extensive 5 Y 4/2 mottles/burrows, many large
Slightly silty lutite with common to abundant forams
Mottles and burrows exhibit a wavy pattern; micronodules at 463 cm?

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 26GGC

Expedition 110 Station No. 18

Leg No. 2 Total Core Length 474 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	silica flag
8	CALC OOZE	1	3			30	30	32			2	TR		2	TR
20	CALC OOZE	2	5			36	20	35			2			TR	
30	CALC OOZE W/ MICRONODULES	3	20			40	4	32			1				
70	CALC OOZE	2	3			33	10	50			2				
150	CALC OOZE	5	2			40	8	44			1				
220	CALC OOZE	7	2			50	3	36			2				
240	CALC OOZE	3	1			42	10	42			2				
290	CALC OOZE	1	2			35	15	45			2				
340	CALC OOZE	3	1			45	10	40			1				
356	CALC OOZE	TR	1			30	45	22			2				
375	CALC OOZE	5	7			35	3	45			TR				
410	HIGHLY CALC CLAY	4	2			70	2	19			3				
460	CALC OOZE	4	2			45	3	44			2				
473	CALC OOZE	5	2			55	5	32			TR				

VISUAL CORE DESCRIPTION

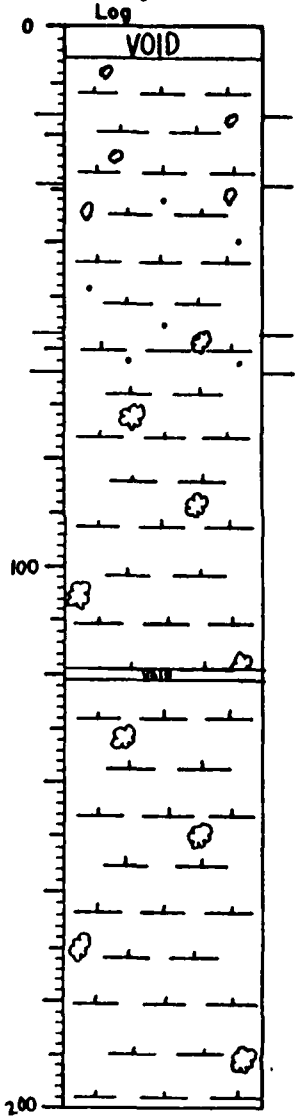
Ship KNR Cruise 110 Leg 2 Sta. 19 Core No 27 GGC

Total Length 356 cm. Lat. 5°36.46'N Long. 44°04.68'W Depth 3967 m corr.

Core condition EXCELLENT Date Described 24 JAN. 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-16
CALC OOZE
10 YR 5/3 brown
Faint 10 YR 4/3 dark brown and 10 YR 5/1 grey mottles
Silty lutite with abundant forams
Core top is substantially shrunken and is convex upward.
Shrinkage void 0-5 cm.
G.

16-29
CALC OOZE
10 yr 5/4 yellowish brown
Faint 10 yr 6/3 pale brown mottles throughout
Slightly silty lutite with common forams
G.

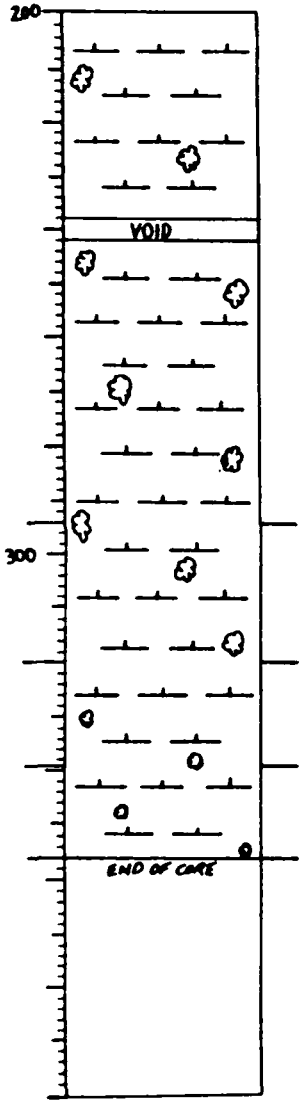
29-57
CALC OOZE WITH MICRONODULES
10 YR 4/4 dark yellowish brown with 10 YR 3/3 dark brown laminations
Few 10 YR 5/4 yellowish brown mottles above 40 cm.; otherwise intercalation of major colors
Slightly silty lutite with common forams becoming scattered below 40 cm.
S.

57-64
HIGHLY CALC CLAY WITH MICRONODULES
10 YR 5/6 yellowish brown
Few large 5 Y 5/2 olive gray mottles between top and bottom layers of unit
Smooth lutite with scattered forams except as noted.
Semi-lithified silty layers at top and bottom of unit
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 19 Core No 27 GGC

Lithologic Log



Detailed Description

64-294
CALC OOZE
2.5 Y 6/4 light yellowish brown
Scattered 5 Y 5/2 olive gray mottles/burrows; many large
Slightly silty moist lutite with common forams grading to scattered below 255 cm.
Few regions tinged with 10 YR 5/6 yellowish brown most ;notably at 110, 157, 230 and 259 cm.; large 2.5 Y N4/gray burrow at 211 cm.; small N2/black burrow at 211 cm.
Shrinkage voids from 119-121 cm. and 238-242 cm.
G, mottled.

294-320
CALC OOZE
10 YR 5/3 brown grading to 10 YR 6/2 light brownish gray
Scattered 5 Y 5/2 olive gray and 2.5 Y N4/dark gray mottles
Silty lutite with common forams becoming abundant below 305 cm.
G.

320-339
CALC OOZE
2.5 Y 5/4 light olive brown
Few 2.5 Y N5/gray mottles
Smooth lutite with common forams
Region from 330-339 cm. is tainted with 10 YR 5/6 yellowish brown
G.

339-356
CALC OOZE
10 YR 5/3 brown
Few 2.5 Y N4/dark gray mottles
Slightly silty lutite with abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

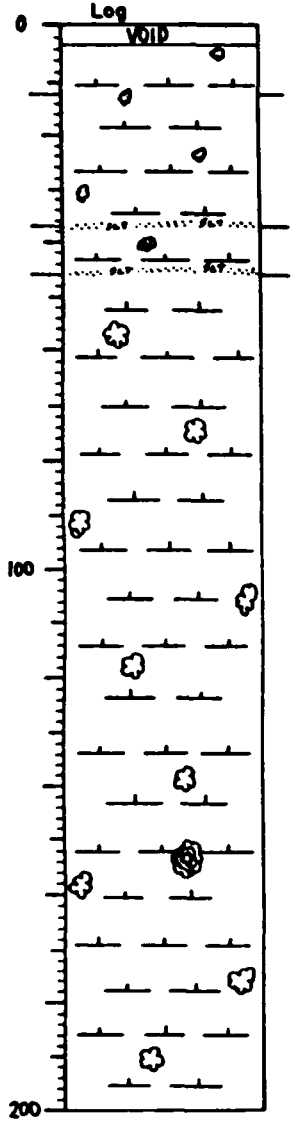
Ship: KNR Core No. 27GGC
Expedition 110 Station No. 19
Leg No. 2 Total Core Length 356 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE	1	3			17	45	30			2			2
25	CALC OOZE	2	4			35	8	50			1			TR
45	CALC OOZE WITH MICRONODULES	5	15			32	2	45			1			
62	HIGHLY CALC CL W/MICRONODULES	8	25			40	2	25			TR			
130	CALC OOZE	5	3			26	20	45			1			
200	CALC OOZE	5	2			35	7	50		TR	1			
260	CALC OOZE W/ MICRONODULES	2	20			45	TR	27			6			
290	CALC OOZE	7	2			50	4	35			2			
310	CALC OOZE	7	1			55	10	34			1			
330	CALC OOZE	5	3			60	2	29			1			
354	CALC OOZE	5	2			31	20	40			2			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 20 Core No. 28 GGC
Total Length 326 cm. Lat. 5° 34.45' N Long. 44° 04.94' W Depth 3790 meters
Core condition EXCELLENT Date Described 28 Sept 1990 by P. Mills
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 5/3 brown grading to 10 YR 6/3 pale brown
Few 10 YR 5/2 grayish brown mottles
Silty lutite with abundant forams
Shrinkage void 0-3 cm.
G.

12-37
CALC OOZE
Intercalated 10 YR 4/4 dark yellowish brown and 10 YR 3/3 dark brown laminations
Few 10 YR 6/3 pale brown mottles (silty)
Slightly silty lutite with common forams
Extremely sharp horizontal bottom contact
S.

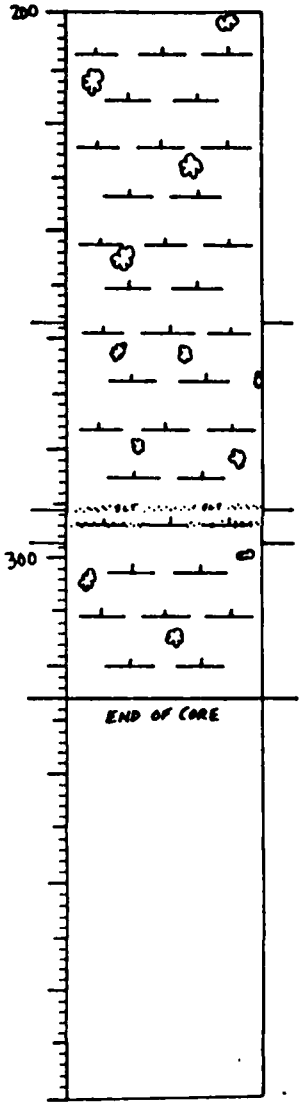
37-46
CALC OOZE WITH MICRONODULES
10 YR 5/6 yellowish brown and 10 YR 3/3 dark brown laminations
Faint 5 Y 5/2 olive gray mottles somewhat obscured by yellowish brown tinge
Silty lutite with scattered forams
Unit is very distinct and regions near top and bottom contacts are semi-lithified in places

46-257
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 5 Y 4/2 olive gray mottles/burrows many large
Smooth moist lutite with common forams throughout
Horizontal regions of unit are tinged with 2.5 Y 5/6 light olive brown most notably 135 cm., 176 cm., and 229 cm. micronodules?; large 10 YR 3.3 dark brown burrow showing concentric circle structure at 155 cm.; large 2.5 Y N4/dark gray burrow at 243 cm.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 20 Core No 28 GGC

Lithologic Log



Detailed Description

257-291
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 6/2 light brownish gray from 269-284 cm.
Faint wavy 5 Y 5/1 gray mottles and few 5 Y 4/2 olive gray mottles
Silty lutite with common forams becoming abundant below 270 cm.
G.

291-297
CALC OOZE
10 YR 5/6 yellowish brown and 2.5 Y 6/2 light brownish gray
Silty lutite with scattered forams
1 cm. horizontal layer 292-393 cm. bounded by two silty laminations
G.

297-326
CALC OOZE
2.5 Y 5/2 grayish brown
Few 2.5 Y N5/gray burrows
Slightly silty lutite with common forams
Concave upward void from 220-226 cm (catcher)

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 28GGC

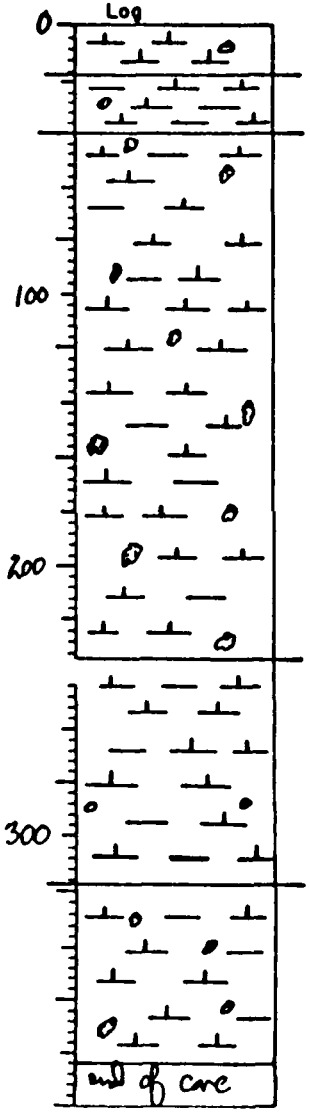
Expedition 110 Station No. 20

Leg No. 2 Total Core Length 326 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	1	2			23	25	45			3	TR		1
25	CALC OOZE	3	10			40	7	39			1			
40	CALC OOZE W/ MICRONODULES	2	15			45	4	34			TR			
100	CALC OOZE	2	1			34	3	60			TR			
175	CALC OOZE	8	3			40	5	43			1			
235	CALC OOZE	10	2			55	4	36			1			
275	CALC OOZE	4	1			33	15	45			2			
295	CALC OOZE	3	5			50	6	34			2			
320	CALC OOZE	2	3			34	15	45			1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 20 Core No 28JGC
Total Length 384 cm. Lat. 5°33.8'N Long. 44°03.12'W Depth 3739m
Core condition excellent Date Described 1/25/89 by DAVIS
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

0-17
CALC OOZE
10YR 5/4 yellowish brown, top 5 cm. are 10YR 5/3 brown
scattered mottling
lutite with abundant into common forams
G

17-40
HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown
scattered mottling
lutite with common forams
unit is commonly intercalated with darker material.
Bottom 1 cm is 10YR 4/6 dark yellowish brown indurated debris layer
S, horizontal

40-234
HIGHLY CALC CLAY
10YR 5/3 brown
common mottling
lutite with common forams
some 10YR 4/6 dark yellowish brown "stained" areas
G

234-318
HIGHLY CALC CLAY
highly variable, but mainly 10YR 6/3 pale brown
largely unmottled, but commonly mottled from 287-293cm
lutite with common forams, except from 295-310 cm which has abundant forams
10YR 4/6 dark yellowish brown from 249-254, and 306-318 cm
S, horizontal

318-384
HIGHLY CALC CLAY
10YR 5/3 brown
commonly mottled
lutite with common forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 29JGC

Expedition 110 Station No. 20

Leg No. 2 Total Core Length 384 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	calc ooze	Tr	1			67	15	9			8			Tr
30	highly calc clay	Tr	4			76	3	12			5			Tr
120	" " "	Tr	1			79	3	14			3			
210	" " "	Tr	1			82	2	11			4			
300	" " "	Tr	1			75	5	9			10			
360	" " "	Tr	2			78	4	13			3			

VISUAL CORE DESCRIPTION

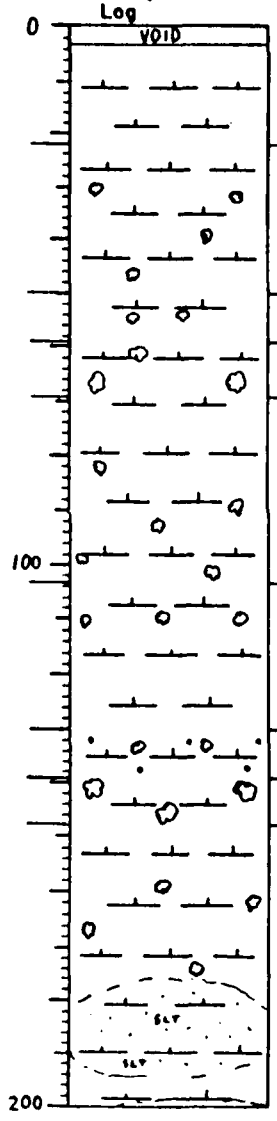
Ship KNR Cruise 110 Leg 2 Sta. 21 Core No 30 GGC

Total Length 392 cm. Lat. 5°20.48'N Long 44°04.12 W Depth 3603 m corr.

Core condition EXCELLENT Date Described 29 JAN 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-22

CALC OOZE
10 YR 5/3 brown grading to 10 YR 6/3 pale brown to 10 YR 5/4 yellowish brown
Silty lutite with abundant forams grading to common below 15 cm.
Shrinkage void 0-3 cm.
G.

22-50

CALC OOZE
10 YR 5/4 yellowish brown and 10 YR 4/2 dark grayish brown
Faint 10 YR 6/3 mottles; unit displays intercalation of major colors
Slightly silty lutite with common forams
S.

50-59

CALC OOZE
10 YR 5/3 brown grading to 10 YR 5/6 yellowish brown at top and bottom contacts
Faint 2.5 YR N5/gray mottles in middle of unit
Slightly silty lutite with common forams
1 cm. thick 10 YR 4/2 dark grayish brown region at 53 cm.
S.

59-69

CALC OOZE
10 YR 6/4 light yellowish brown
Common 10 YR 5/1 gray mottling throughout
Smooth lutite with common forams
S, textural

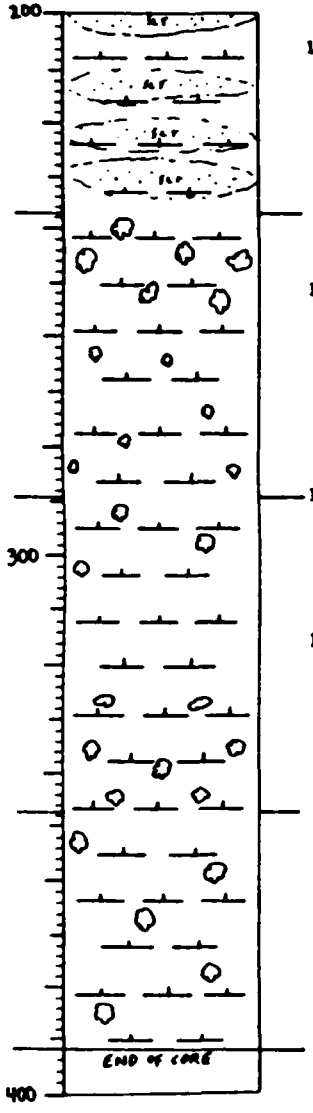
69-103

CALC OOZE
10 YR 6/3 pale brown grading to 10 YR 4/4 dark yellowish brown
Faint 10 YR 6/3 mottles below 75 cm.
Several thin 10 YR 4/3 dark brown ;streaks and laminations
S, textural and color.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 21 Core No 30 GGC

Lithologic Log



Detailed Description

103-130
CALC OOZE
10 YR 6/3 pale brown grading to 10 YR 4/4 dark yellowish brown
Faint 10 YR 6/3 mottling below 109 cm. and above 115 cm.
Silty lutite with abundant forams grading to common below 109 cm.
Several 10 YR 4/3 dark brown streaks and laminations
S.

130-139
CALC OOZE WITH MICRONODULES
10 YR 4/3 brown becoming 10 YR 5/6 yellowish brown at top and bottom contacts
Faint 2.5 Y N5/gray mottles in center of unit
Slightly silty lutite with common forams
10 YR 4/2 dark grayish brown region from 132-134 cm.
S.

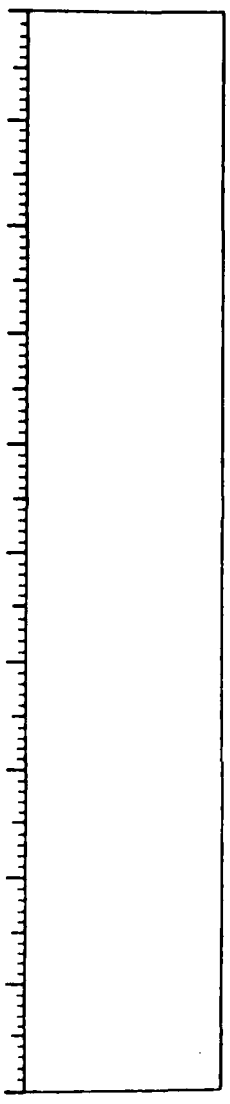
139-148
CALC OOZE
10 YR 6/4 yellowish brown
Common 10 YR 5/1 gray mottling throughout
Smooth lutite with common forams
S, textured.

148-237
CALC OOZE
10 YR 6/3 pale brown grading to 10 YR 4/4 dark yellowish brown with 10 YR 3/3 dark brown wavy streaks and laminations throughout becoming 10 YR 5/6 yellowish brown near unit base
Few 10 YR 5/1 gray mottles near base of unit
These beds contain common 10 YR 5/1 gray laminations which exhibit wavy structure.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta 21 Core No 30 GGC

Lithologic Log



Detailed Description

237-289
CALC OOZE
2.5 Y 5/2 grayish brown and 2.5 Y 5/4 light olive brown
Extensive 5 Y 5/1 gray mottles becoming more faint below 260 cm.
Slightly silty lutite with common forams
Thin 2.5 N3/very dark gray mottle at 252 cm ; 2 5 Y 5/2 olive gray layer from 253-256 cm
S, mottled.

289-347
CALC OOZE
2.5 Y 5.5/2 light grayish brown
Scattered 2.5 Y 4/2 dark grayish brown mottling above 305 cm; few 2.5 Y N3/very dark gray mottles from 324-330 cm.; common 5 Y 5/2 olive gray mottles from 333 cm. to unit base
Slightly silty lutite with common forams grading to smooth lutite with scattered forams
Two regions tinged with 10 YR 5/6 yellowish brown at 313-316 cm. and 330-332 cm.
G, mottled.

347-392
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 5 Y 5/2 olive gray and scattered 2.5 Y N4/dark gray mottles/burrows throughout
Slightly silty lutite with scattered forams grading to common

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 30GGC

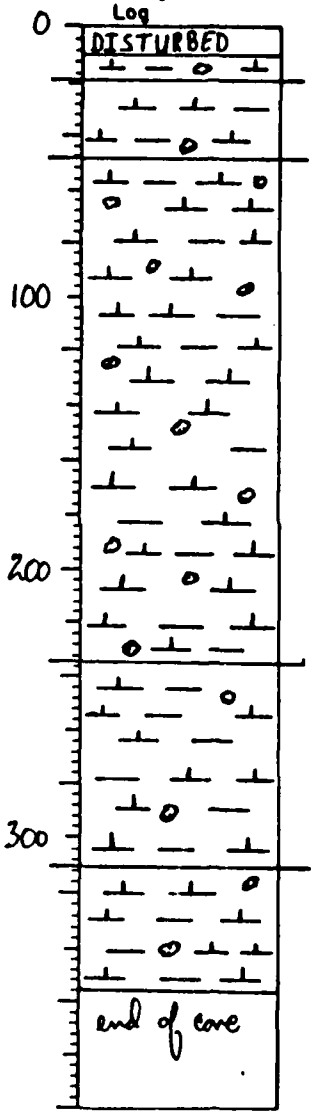
Expedition 110 Station No. 21

Leg No. 2 Total Core Length 392 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			22	40	30			5	TR		1
35	CALC OOZE	1	4			50	2	42			1			
55	CALC OOZE	8	7			35	3	45			2			
65	CALC OOZE	5	5			40	5	44		TR	1			
85	CALC OOZE	3	7			50	8	31			1			
120	CALC OOZE	4	12			39	4	40			1			
135	CALC OOZE W/ MICRONODULES	3	15			33	8	40			1			
165	CALC OOZE	2	4			32	6	55			1			
175	CALC OOZE W/ MICRONODULES	5	25			22	5	40			3			
212	CALC OOZE	4	3			10	45	30			6	TR		2
270	CALC OOZE	5	7			34	12	40			2			
325	CALC OOZE	3	10			38	7	40			2			
375	CALC OOZE	1	2			55	6	35			1			
390	CALC OOZE	8	3			45	15	28			1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 22 Core No 31GGC
Total Length 356 cm. Lat. 5°46'N Long 44°34'W Depth 3532 m
Core condition excellent Date Described 4/23/89 by DAWG
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

10-19
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered mottling
lutite with common forams
0-10 cm: disturbed sediment; stored in end caps
S, horizontal

19-49
HIGHLY CALC CLAY
10 YR 4/4 dark yellowish brown
scattered mottling
lutite with common forams
zone of common intercalation, including heavy from 19-24 cm.
S, horizontal

49-235
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
common mottling
smooth lutite with common forams
topped by thin (>0.5 cm) 10YR 4/6 dark yellowish brown indurated debris layer. Others to 46 cm.
G

235-311
CALC CLAY
10YR 6/4 light yellowish brown, except for 288-294 cm which is 10YR 5/3 brown
scattered mottling throughout except from 256-282 cm. where there is none
smooth lutite with common forams, bottom 7 cm. has abundant forams
many color variations downcore, dark yellowish brown tint from 244-247, 285-286 cm.
S, horizontal

311-356
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered mottling
smooth lutite with common forams, except bottom 6 cm which has abundant forams
top 7 cm is dark yellowish brown (10YR 5/6) stained

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 31GGC

Expedition 110 Station No. 22

Leg No. 2 Total Core Length 356 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6 cm	highly calc clay	Tr	1			77	3	13			6			
25	" " "	Tr	2			81	2	11			4			
90	" " "	Tr	1			81	2	12			4			
170	" " "	Tr	2			78	4	9			7			
240	calc clay	Tr	2			84	2	7			5			
320	highly calc clay	Tr	2			68	10	8			12			

VISUAL CORE DESCRIPTION

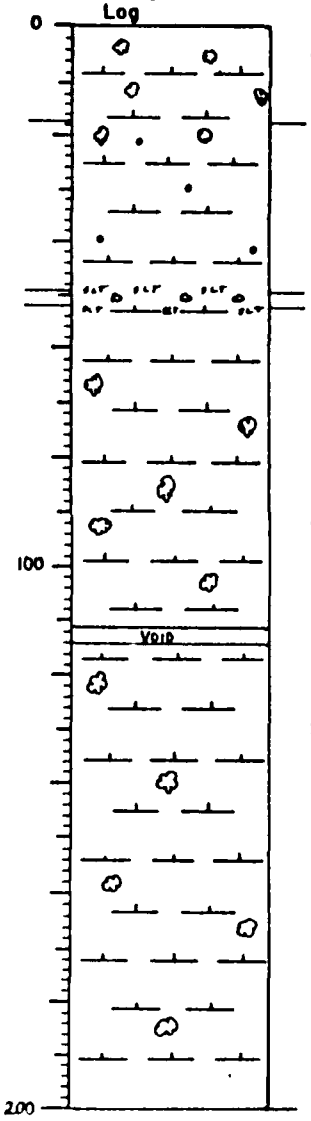
Ship KNR Cruise 110 Leg 2 Sta. 22 Core No 32 GGC

Total Length 336 cm. Lat. 5°26.11' N Long 44°03.15 W Depth 3507 m corr.

Core condition EXCELLENT Date Described 31 JAN, 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 4/1 dark gray and faint 10 YR 6/3 pale brown mottles
Silty lutite with abundant forams grading to common
S, mottled.

17-49
CALC OOZE WITH MICRONODULES
10 YR 4/4 dark yellowish brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 6/3 pale brown mottles above 26 cm.
Slightly silty lutite with common forams
Large 10 YR 7/4 very pale brown burrow at 23 cm. unit contains many 10 YR 3/3 dark brown laminations; highest concentration from 26-30 cm.
Very, S.

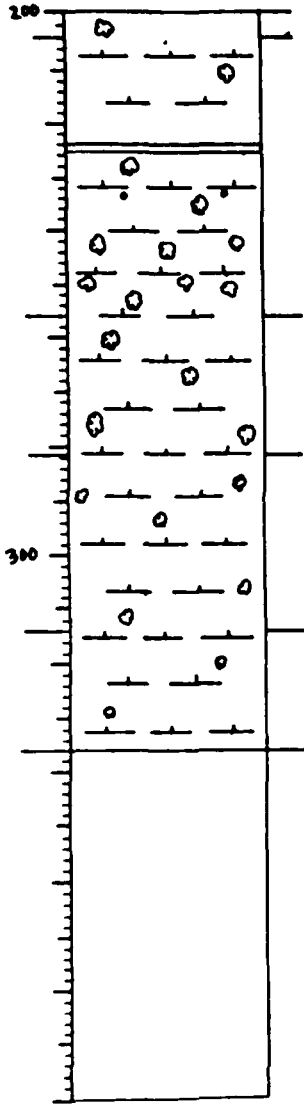
49-52
CALC OOZE
10 YR 5/4 yellowish brown and 10 YR 5/6 yellowish brown at top and bottom contacts
Faint 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with common forams
Top and bottom contacts are very silty (mn oxide?) 10 YR 5/6 yellowish brown
Very S.

52-200
CALC OOZE
10 YR 5/3 brown
Scattered 2.5 Y 4/2 dark grayish brown mottles; some large
Slightly silty lutite with common forams throughout
Large 2.5 Y N5/gray burrow 91-92 cm.; few 2.5 Y 3/2 very dark grayish brown mottles 158-161 cm., shrinkage void 111-114 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 22 Core No 32 GGC

Lithologic Log



Detailed Description

200-204
CALC OOZE
10 YR 6/3 pale brown and 10 YR 5/.1 gray with intercalation
Very silty lutite with abundant forams
Thin 10 YR 4/4 dark yellowish brown lamination forms unit base
S.

204-256
CALC OOZE
10 yr 5/3 brown
Scattered 2.5 Y 4/2 dark grayish brown mottles becoming extensive below 240 cm.
slightly silty lutite with common forams throughout
Mottles exhibit wavy elongate structure throughout region 232-236 cm. tinged with 10 YR 5/6 yellowish brown, thin 2.5 Y N3/very dark gray wavy lamination at unit base; shrinkage void 224-225 cm.
G.

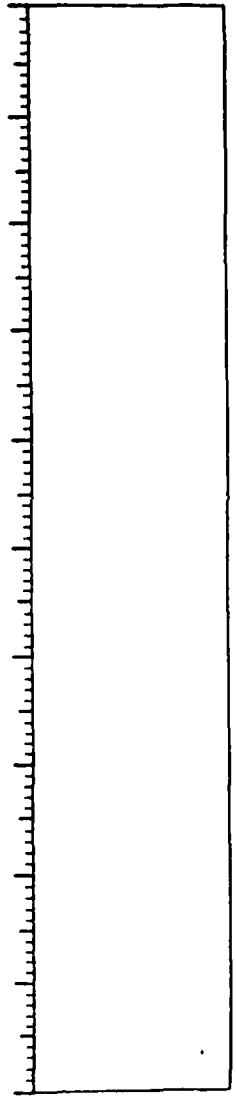
256-281
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/2 light brownish gray
Scattered mottling with intercalation of major colors; few 2.5 Y N4/dark gray mottles 274-278 cm.
Smooth lutite with common forams
Region 293-295 cm. tinged with 10 YR 5/6 yellowish brown
C.

281-314
CALC OOZE
10 YR 5/3 brown
Scattered 10 YR 4/2 dark grayish brown ;and 10 YR 6/2 light brownish gray mottles
Slightly silty lutite with common forams
Region 293-295 cm. tinged with 10 YR 5/6 yellowish brown
C.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 22 Core No 32 GGC

Lithologic Log



Detailed Description

314-336
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 6/2 light brownish gray
Faint mottling with intercalation
Slightly silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 32 GGC

Expedition 110 Station No. 22

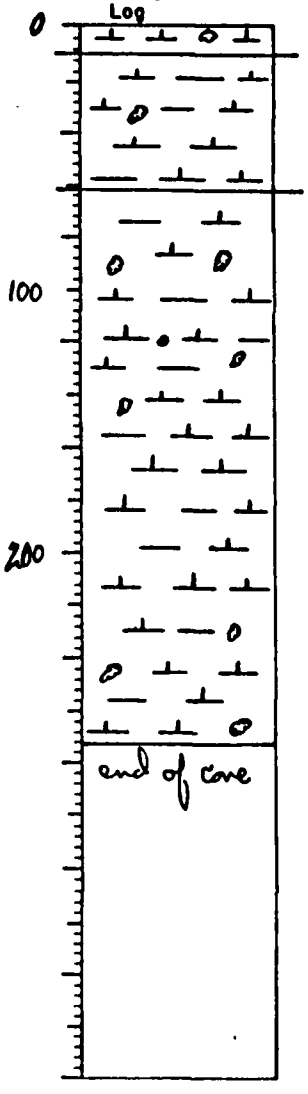
Leg No. 2 Total Core Length 336 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		4			18	40	30			5	TR		3
12	CALC OOZE	3	5			27	30	30			3	TR		2
35	CALC OOZE W/ MICRONODULES	4	15			36	3	40			2			
51	CALC OOZE	5	6			45	7	35			2			
100	CALC OOZE	4	3			40	8	43			2			
175	CALC OOZE	2	1			50	10	36			1			
203	CALC OOZE	TR	3			25	45	21			5			1
250	CALC OOZE	4	2			40	7	45			2			
275	CALC OOZE	1	2			45	15	34			3			
300	CALC OOZE	3	3			45	8	39			2			
335	CALC OOZE	1	2			50	12	32			3			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 22 Core No 32GGC
Total Length 273 cm. Lat. 5°22.6'N Long 44°03.2'W Depth 3400m
Core condition excellent Date Described 11/25/88 by DAWS
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

0-10
CALC OOZE
10YR 5/4 yellowish brown
scattered mottling
lutite with abundant forams
0-2 cm: void
G

10-62
HIGHLY CALC CLAY
10YR 5/8 yellowish brown
scattered mottling
lutite with common forams
extensive intercalation from 23-41 cm, and from 52-53 cm. 10YR 4/6 dark yellowish brown indurated debris from 58-59 cm.
G

62-273
HIGHLY CALC CLAY
10YR 5/3 brown
mottling varied from common to faint throughout
lutite with common forams
10YR 4/6 dark yellowish brown "stained" areas at 197cm, 200 cm, and from 216-218 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 33GGC

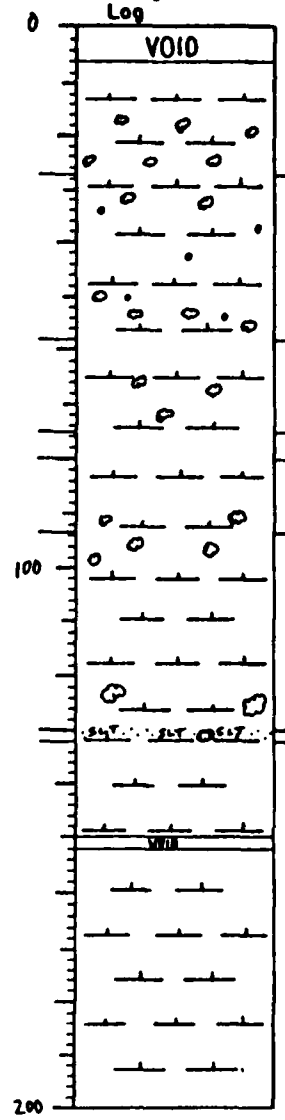
Expedition 110 Station No. 23

Leg No. 2 Total Core Length 273 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7 cm	calc ooze	Tr	1			66	6	15			12			
48	highly calc clay	Tr	2			81	3	8			6			
110	" " "	Tr	1			74	3	18			4			
180	" " "	Tr	1			81	3	10			5			
250	" " "	Tr	2			79	4	8			7			

VISUAL CORE DESCRIPTION Page 1 of 3

Ship KNR Cruise 110 Leg 2 Sta. 24 Core No 34GGC
Total Length 300 cm. Lat. 5°16.40'N Long. 44°03.70'W Depth 3292 m. corr.
Core condition EXCELLENT Date Described FEB. 1990 by P. MILLS
Physiographic location
Lithologic Log



Detailed Description

0-27
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 5/1 gray and 10 YR 6/3 pale brown mottling
Silty lutite with abundant forams grading to common forams below 17 cm.
Shrinkage void 0-6 cm.
G.

27-58
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Few 10 YR 6/4 light yellowish brown and 10 YR 6/3 pale brown mottles
Slightly silty lutite with common forams
Dark grayish brown laminations are extensive and occur throughout the unit.
S, coloretional and textural.

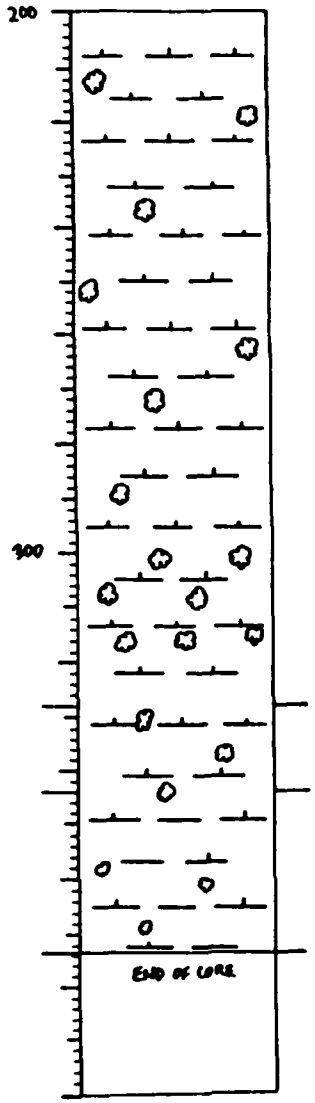
58-75
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/2 light brownish gray grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 6/3 pale brown mottling below 66 cm.
Most likely represents repenetration top of core)
S, irregular but convex upward.

75-80
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown
Silty lutite with abundant forams
2nd representation
S, color convex upward.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 24 Core No 34GGC

Lithologic Log



Detailed Description

80-93
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 6/3 pale brown mottles below 89 cm.
Silty lutite with abundant forams becoming common below 89 cm.
Second true core top begins at 80 cm.
G.

93-130
CALC OOZE/DETRITUS
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Scattered 10 YR 6/3 mottles near top of unit; few 5 Y 5/2 olive gray mottles near unit base
Slightly silty lutite with common forams
Dark laminations are extensive throughout unit except for bottom 10 cm.
Very S colorational and textural.

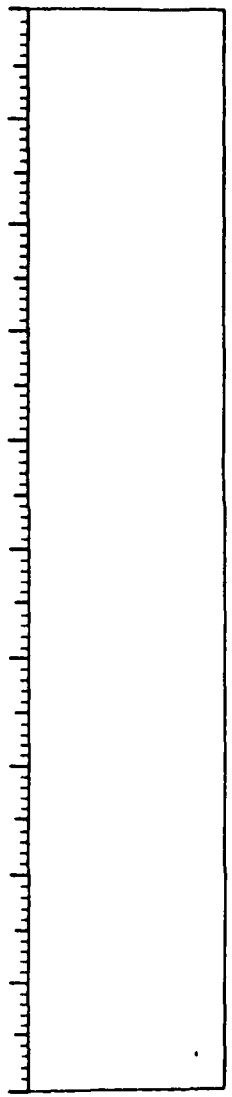
130-132
HIGHLY CALC CLAY/MICRONODULES
10 YR 4/6 dark yellowish brown and 10 YR 5/4 yellowish brown
Few 5 Y 5/2 olive gray mottles in middle of unit
Slightly silty lutite with scattered forams
Top and bottom of unit 10 YR 4/6 regions are very silty slightly lithified layers with high manganese content
S.

132-328
CALC OOZE
10 YR 5/3 brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 5/1 gray mottles above 190 cm.; scattered 5 Y 5/2 olive gray mottles throughout
Slightly silty moist lutite with common forams becoming smooth lutite with scattered forams below 285 cm.
Few horizontally oriented regions tainted with 10 YR 5/6 yellowish brown most notably 163-164, 267-269 and 289-292 cm.; few 10 YR 4/2 dark grayish brown mottles near base of unit; shrinkage void 150-152 cm.; common 5 Y 5/2 olive brown mottling from 303-320 cm.
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 24 Core No 34GGC

Lithologic Log



Detailed Description

338-344
CALC OOZE
2.5 Y 6/2 light brownish gray
Scattered 2.5 Y 5/2 grayish brown mottles
Slightly silty lutite with common forams
G, mottled.

344-373
HIGHLY CALC CLAY
10 YR 5/4 yellowish brown
Scattered 2.5 Y 6/2 light brownish gray mottling above 350 cm.; few faint 10 YR 5/2 mottles below 350 cm.
Slightly silty lutite with common forams
Region from 358-359 cm. tinged with 10 YR 5/6 yellowish brown.

END OF CORE

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 34 GGC

Expedition 110 Station No. 24

Leg No. 2 Total Core Length 300 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE	1	2			25	35	30			5	TR		2
20	CALC OOZE	2	4			30	25	36			5			1
45	CALC OOZE W/ MICRONODULES	7	15			34	8	35			1			
85	CALC OOZE	2	3			27	35	30			5	TR		2
120	CALC OOZE / DETRITUS	30	5			29	5	30			1			
130	HIGHLY CALC CL /MICRONODULES	5	30			35	4	25			1			
180	CALC OOZE	4	2			42	5	45			2			
240	CALC OOZE	5	2			34	7	50			2			
298	CALC OOZE	3	4			34	3	55			1			
320	CALC OOZE	15	2			40	10	32			1			
338	CALC OOZE	4	1			50	8	35			2			
365	HIGHLY CALC CLAY	2	3			65	4	26			TR			

VISUAL CORE DESCRIPTION

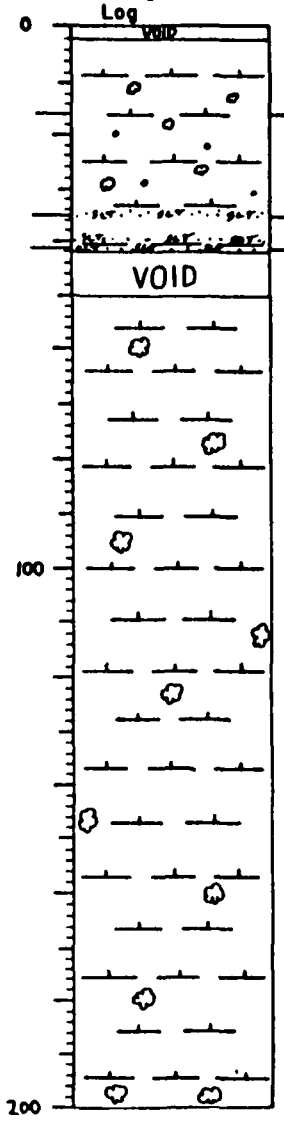
Ship KNR Cruise 110 Leg 2 Sta. 24 Core No 35 JGC

Total Length 386 cm. Lat. 5°N 32' N Long. 44°03.64 W Depth 3274m corr.

Core condition EXCELLENT Date Described 2 FEB. 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-16

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Faint 10 YR 5/2 grayish brown mottling
Very silty lutite with abundant forams grading to slightly silty lutite with common forams
Shrinkage void 0-2 cm.

16-35

CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with many 10 YR 3/2 very dark grayish brown laminations
Faint mottling with intercalation
Slightly silty lutite with common forams
Dark grayish brown laminations are extensive and comprise 50 % of the unit
Very S, textural

35-41

HIGHLY CALC CLAY WITH MICRONODULES
10 YR 5/4 yellowish brown and 10 YR 5/6 yellowish brown
Faint 2.5 Y 5/2 grayish brown mottles throughout
Slightly silty lutite with common forams
Unit contains three very silty 10 YR 5/6 laminations that are semi-lithified. These are at the top and base of the unit and at 39 cm.
S.

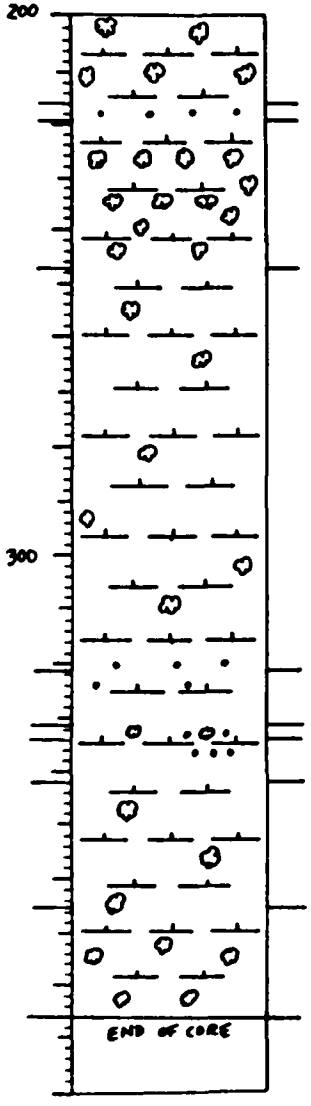
41-216

CALC OOZE
2.5 Y 5/3 light grayish olive brown
Scattered 2.5 Y 5/2 grayish brown mottles; some large becoming common below 197 cm.
Slightly silty moist lutite with common forams
Large 10 YR 5/1 gray burrows 57-62 cm.; few regions tainted with 10 YR 5/6 yellowish brown most notably 88-89, 127-128, 197 cm.; shrinkage void 42-50 cm.
S, colorational.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 24 Core No. 35 JGC

Lithologic Log



Detailed Description

216-219
CALC OOZE WITH MICRONODULES
10 YR 5/6 yellowish brown
Faint 5 Y 5/2 olive gray mottles
Smooth lutite with scattered forams
Scattered micronodules
G.

219-247
CALC OOZE
2.5 Y 5/3 light gray olive brown
Extensive 5 Y 5/2 mottling/burrowing, many large
Smooth lutite with common forams
G.

247-321
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 6/2 light brownish gray grading to 2.5 Y 6/4 light yellowish brown
Scattered 2.5 Y 5/2 grayish brown mottles throughout
Slightly silty lutite with common forams becoming more abundant in regions 259-273 and 309-317 cm.
Thin 2.5 Y 5/2 grayish brown wavy laminations at 264, 303, and 317 cm.; scattered micronocules at unit base; region from 281-284 cm. tainted with 10 YR 5/6 yellowish brown 2.5 Y N4/mottles at 254, 283 cm.
S.

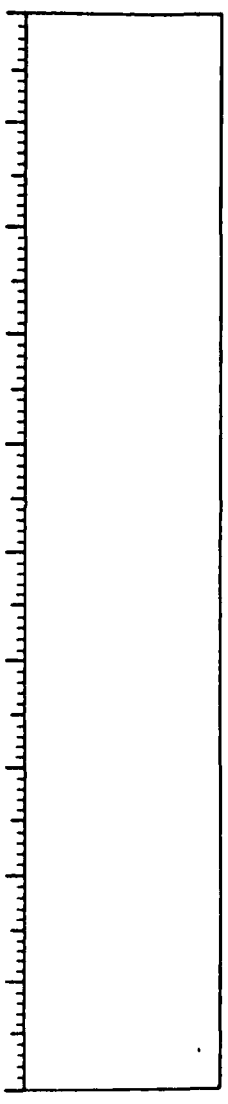
321-331
CALC OOZE
2.5 Y 5/2 grayish brown
Slightly silty lutite with forams grading from common to abundant
G.

331-334
CALC OOZE
10 YR 7/2 light gray
Few 2.5 Y 5/2 grayish brown mottles
Silty lutite with abundant forams
Few micronocules 324-325 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 24 Core No. 35 JGC

Lithologic Log



Detailed Description

334-342
CALC OOZE
10 YR 5/4 yellowish brown
Slightly silty lutite with common forams
Scattered micronodules throughout; large 10 YR 5/6 yellowish brown region 336-338 cm. with common micronodules
S. Convex downward.

342-365
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 5 Y 4/2 olive gray mottles
Smooth lutite with common forams
Few 5 Y 4/2 olive gray wavy laminations from 448-453 cm.
G.

365-386
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with common forams
Few small regions tinged with 10 YR 5/6 yellowish brown most notably 374-375 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 35 JGC

Expedition 110 Station No. 24

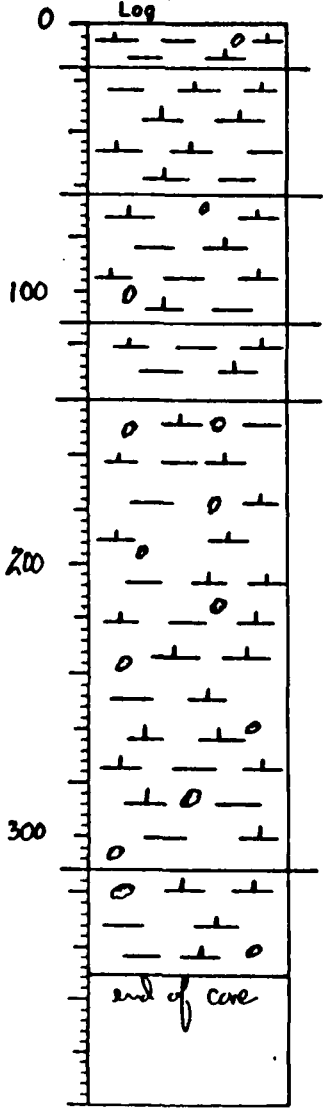
Leg No. 2 Total Core Length 386 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
5	CALC OOZE	TR	4			25	35	30			4	TR		2	
24	CALC OOZE / MICRONODULES	4	15			32	8	40			1				
39	HIGHLY CALC OOZE W/MICRONODULES	5	25			35	5	24			1				
90	CALC OOZE	5	2			35	12	45			1				
160	CALC OOZE	10	5			45	5	33			2				
210	CALC OOZE	3	3			39	4	50			1				
217	CALC OOZE W/ MICRONODULES	4	20			40	1	34			1				
230	CALC OOZE	4	6			35	3	50			2				
280	CALC OOZE	2	3			60	10	23			2				
310	CALC OOZE	2	2			50	15	29			2				
327	CALC OOZE	6	2			60	10	21			1				
333	CALC OOZE	2	1			40	20	34			3				
339	CALC OOZE	8	7			38	6	40			1				
355	CALC OOZE	9	9			35	10	35			2				
375	CALC OOZE	4	2			46	5	40			3				
385	CALC OOZE	5	3			45	7	38			2				

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 25 Core No 36GGC
Total Length 351 cm Lat. 5°13.1'N Long 14°09.2'W Depth 3254m
Core condition excellent Date Described 1/22/90 by DAMS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-15
HIGHLY CALC CLAY
10YR 6/3 pale brown
scattered mottling
lutite with common forams
G

15-64
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
faint mottling
smooth lutite with common forams
heavily intercalated from 26 cm to base of unit with darker material.
S, horizontal

64-112
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
scattered mottling
smooth lutite with scattered forams
64-65 & 70-72 cm is 10YR 4/6 dark yellowish brown ice-rafted debris
G

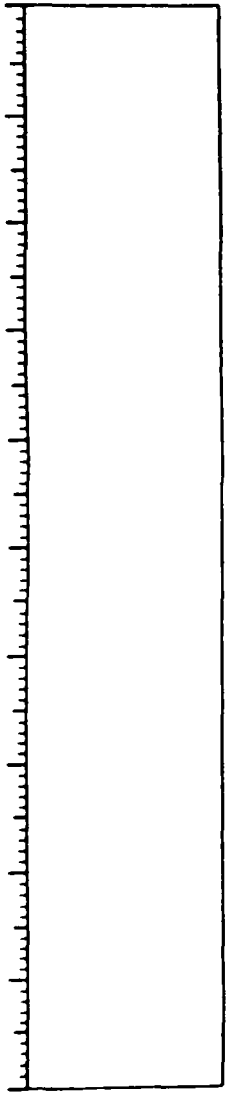
112-140
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
faint mottling
smooth lutite with scattered forams from 116 to base of unit
abundant forams down to 116 cm, 10YR 5/2 grayish brown to 113 cm, then 10YR 6/3 pale brown to 116 cm.
Heavily intercalated from 119-121, and from 127-137 cm.
S, horizontal

140-312
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
common mottling
smooth lutite with common forams
top 1 cm is 10YR 4/6 dark yellowish brown ice-rafted material. Several thin (0.5cm) 10YR 4/6 dark yellowish brown "stained" areas throughout interval.
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 25 Core No. 36GGC

Lithologic Log



Detailed Description

312-351

HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered to common mottling
smooth lutite with scattered forams
manganese micro-nodule areas noted

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 36GGC

Expedition 110 Station No. 25

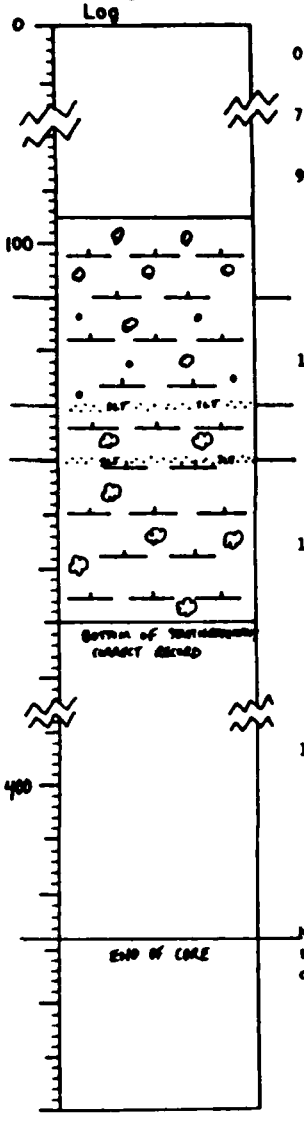
Leg No. 2 Total Core Length 351 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	highly calc clay	Tr	1			69	7	11			12			Tr
33	" " "	Tr	2			79	11	10			5			
90	" " "	Tr	1			81	3	11			4			
120	" " "	Tr	2			68	12	8			10			
215	" " "	Tr	2			69	6	13			10			
330	" " "	Tr	1			73	6	12			8			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 26 Core No 37 GGC
Total Length 428 cm. Lat. 5°00.01 N Long. 44°01.70 W Depth 3109 m corr.
Core condition EXCELLENT Date Described 2 FEB, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-7
Shrinkage void.

7-95
Stratigraphy interrupted by multiple penetrations

95-110
CALC OOZE
2.5 Y 4/2 dark grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation
Silty lutite with abundant forams grading to common below 105 cm.
C.

110-130
CALC OOZE WITH MICRONODULES
10 YR 5/4 brown with many 10 YR 3/2 very dark grayish brown laminations
Few 10 YR 6/3 pale brown mottles
Slightly silty lutite with common forams
10 YR 3/2 laminations are most concentrated in the region 118-123 cm.

130-140
CALC OOZE
10 YR 5/3 brown
Scattered 2.5 Y 4/2 dark grayish brown mottling
Slightly silty lutite with common forams
Top and bottom 1 cm. of unit are 10 YR 5/6 yellowish brown; silty semi-lithified layers; few 10 YR 4/3 brown laminations 131-133 cm.
S, colorational and textural.

140-170
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 2.5 Y N4/gray and 2.5 Y 4/2 dark grayish brown mottles
Smooth lutite with common forams
Thin horizontal regions tinged with 10 YR 5/6 yellowish brown at 160-161 and 168, 169 cm.

Note: The top 75 cm. of this core is best represented by the stratigraphy present from 95 to 170 cm. Below 180 cm. the core shows a series of repenetrations.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 37 GGC
Expedition 110 Station No. 26
Leg No. 2 Total Core Length 428 cm

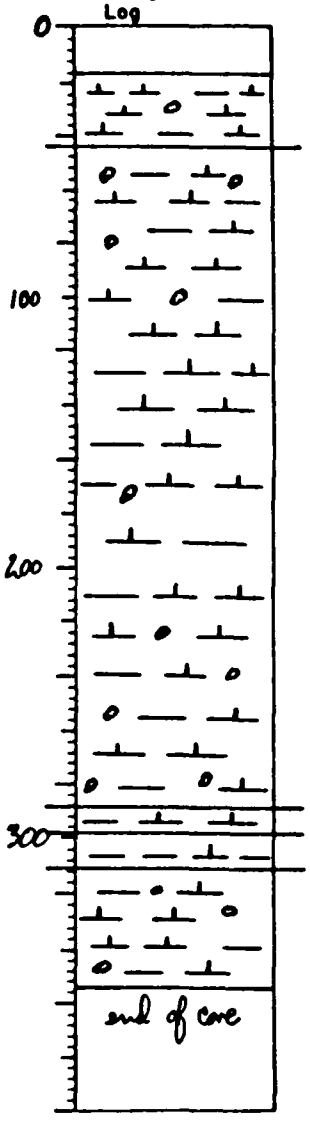
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
100	CALC OOZE	2	3			25	40	24			4	TR		2
122	CALC OOZE W/ MICRONODULES	3	20			31	4	40			2			
135	CALC OOZE	2	10			45	8	34			1			
140	HIGHLY CALC CL MICRONODULES	4	50			25	3	17			1			
160	CALC OOZE	2	5			39	8	45			1			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 26 Core No 38JGC
Total Length 358 cm. Lat. 5°9.3'N Long 44°10'W Depth 3199m
Core condition excellent Date Described 4/27/69 by Davis
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-16
SECTION 4 MISSING (0-16cm)

16-44
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered mottling
smooth lutite with common forams
intercalated down to 30 cm., several 10YR 4/6 dark yellowish brown layers in lower most 10 cm of interval
C

44-289
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
scattered to common mottling
smooth lutite with common forams
numerous 10YR 4/6 dark yellowish brown "stained" areas throughout unit. From 200 cm to base of interval many areas of Mn micronodule concentrations are found
C

289-299
HIGHLY CALC CLAY
10YR 6/3 pale brown; bottom 2 cm slightly lighter
faint if any mottles
smooth lutite with common forams; forams abundant in bottom 2 cms.
some areas of Mn micronodules present
C

299-311
CALC CLAY
10YR 5/4 yellowish brown
faint mottling
smooth lutite with common forams
C (?) masked by break in liner

311-358
HIGHLY CALC CLAY
10YR 5/3 brown
scattered to common mottling
smooth lutite with common forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

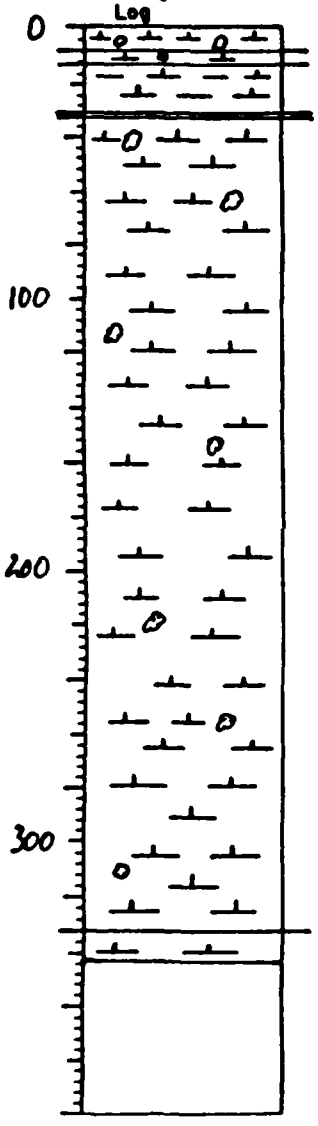
Ship: Knorr Core No. 38JGC
Expedition 110 Station No. 26
Leg No. 2 Total Core Length 358 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
30 cm	highly calc clay	Tr	2			77	2			15	4			Tr	
90	" " "	Tr	2			75	5			8	7				
170	" " "	Tr	1			70	10			11	8				
250	" " "	Tr	1			74	5			10	10				
294	" " "	Tr	1			77	8			9	13				
305	calc clay		1			86	1			8	4				
335	highly calc clay	Tr	2			74	5			10	9				

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 27 Core No 39GGC
Total Length 343 cm Lat. 4°59.0'N Long. 43°47.0'W Depth 3370 m
Core condition excellent Date Described 10/24/88 by Davis
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-8
CALC OOZE
10YR 6/4 light yellowish brown
common mottling throughout with 10YR 6/3 pale brown material
lutite with abundant forams
slight shrinkage due to drying
G

8-13
CALC OOZE
10YR 5/6 yellowish brown
scattered mottling of above 10YR 6/4 light yellowish brown material
lutite with abundant forams
G

13-31
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
heavily intercalated with 10YR 4/4 dark yellowish brown material throughout, except from 22-24 cm, and from 27-28 cm.
smooth lutite with common forams
at 2.5 cm, 1/2 cm thick semi indurated 10YR 5/6 strong brown to 10YR 4/4 dark brown unit
G

31-32
HIGHLY CALC CLAY
10YR 5/3 brown
smooth lutite with few forams
S, horizontal

32-332
CALC OOZE
10YR 6/3 pale brown
mottling common throughout with 10YR 5/2 grayish brown; no mottles from 318-332 cm
smooth lutite with common forams
from 32-33 cm. , two 0.25 cm thick semi-indurated 10YR 5/6 strong brown to 10YR 4/4 dark brown units. Other 10YR 5/6 strong brown regions are from 50-52 cm, 123-124, and faintly colored areas, from 163-166, 201-205, 231, 239-240 cm.
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 27 Core No 39GGC

Lithologic Log

Detailed Description

332-343
CALC OOZE
10YR 6/3 pale brown
faint mottling below 334 cm.; intercalated (?)
smooth lutite with common forams
332-334: two distinct 10YR 5/6 strong brown slightly indurated (?) units. Distinct, very small "blebs" of material within each unit

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 39GGC

Expedition 110 Station No. 27

Leg No. 2 Total Core Length 343 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5 cm	calc ooze	Tr	1			63	4	12			20			Tr
10	" "	Tr	1			54	12	17			10			Tr
23	highly calc clay	2	2			67	3	20			6			Tr
32	" " "	2	3			69	4	17			5			
90	" " "	2	2			69	5	14			8			
170	calc ooze	3	2			59	6	18			12			
240	" "	2	3			65	3	21			6			
290	" "	2	1			60	1	30			6			
325	" "	1	2			66	6	12			13			
339	" "	2	3			62	8	10			15			

VISUAL CORE DESCRIPTION

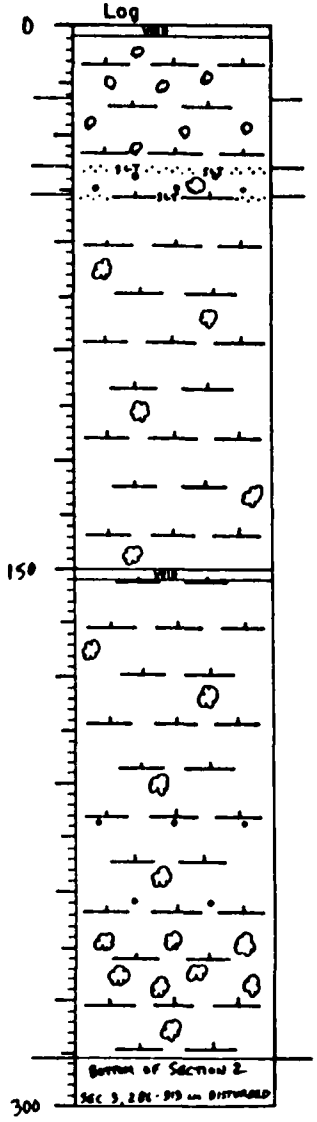
Ship KNR Cruise 110 Leg 2 Sta. 28 Core No 40 GGC

Total Length 313 cm. Lat. 4° 43.57' N Long. 43° 45.40 W Depth 3300 m corr.

Core condition EXCELLENT Date Described 6 FEB 1990 by P MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-19

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation of major colors
Silty lutite with abundant forams grading to common below 13 cm.
Shrinkage void 0-2 cm.
G.

19-39

CALC OOZE
10 YR 4/3 dark yellowish brown with many 10 YR 3/2 very dark grayish brown laminations
Faint 10 YR 6/3 pale brown mottles above 26 cm.
Slightly silty lutite with common forams
Dark laminations are most concentrated in the region 25-32 cm.
Very S.

39-46

CALC OOZE WITH MICRONODULES
10 YR 4/3 brown grading to 10 YR 5/3 brown except for 39-40 and 44-46 cm. which is 10 YR 5/6 yellowish brown
Few 5 Y 5/2 olive gray mottles in central region of unit
Slightly silty lutite with scattered forams
Top and bottom 10 YR 5/6 regions are very silty and slightly lithified
S, textural and colorational.

46-286

CALC OOZE
2.5 Y 5/3 light grayish olive brown
Scattered 5 Y 4/1 dark gray and 5 Y 4/2 olive gray mottles throughout except common from 253-275 cm.
Slightly silty lutite with common forams
Shrinkage void 150-153 cm.; several regions tainted by 10 YR 5/6 yellowish brown and showing scattered micronodules most notably 138-141, 185-186, 219-223, 243 cm. large 2.5 Y N4/dark gray burrows at 120 and 230 cm.

286-313

Sediments disturbed; retained for bulk sampling only.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 40 GGC

Expedition 110 Station No. 28

Leg No. 2 Total Core Length 313 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	3			24	40	27			3	1		2
15	CALC OOZE	1	5			39	20	40		TR	2			1
30	CALC OOZE	1	6			45	4	43			1			
42	CALC OOZE W/ MICRONODULES	4	15			40	3	36			2			
46	CALC OOZE W/ MICRONODULES	8	20			30	7	34			1			
100	CALC OOZE	2	3			39	5	50			1			
175	CALC OOZE	3	3			35	8	50			1			
221	CALC OOZE	2	10			32	10	45			1			
281	CALC OOZE	2	1			50	3	43			1			

VISUAL CORE DESCRIPTION

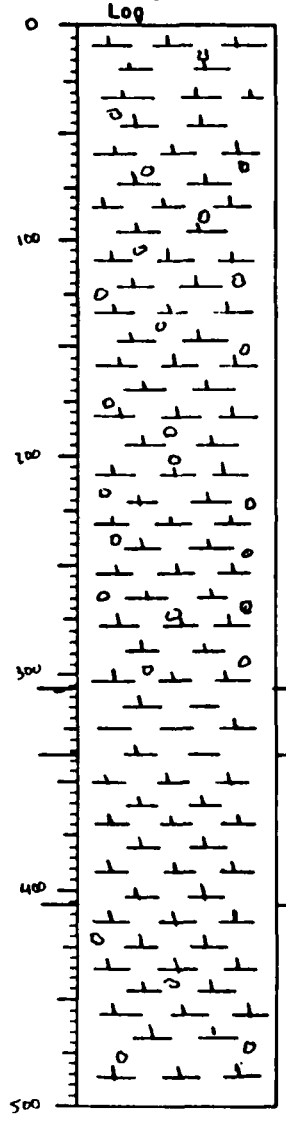
Ship Knorr Cruise 110 Leg 2 Sta. 28 Core No 41PC

Total Length 1001 cm. Lat. 4° 44.6 N Long. 45° 47.1 W Depth 3315

Core condition Excellent Date Described 6/25/85 by Davis

Physiographic location Ceara rise

Lithologic Log



Detailed Description

0-306
CALC OOZE
Olive brown (2.5 Y 4/4) with variation; general lightening down section
Scattered to common forams; abundant forams at 5.5 to 6 cm.
Smooth lutite with common to scattered forams
*(Core accidentally frozen before splitting)
Areas of Mn micronodule concentration present; several dark yellowish brown (10 YR 4/6) areas, especially from 208-211 cm.
G.

306-337
HIGHLY CALC CLAY
Grayish brown (2.5 Y 5/2)
Smooth lutite with common forams
Top 1 cm. of unit and at 317 cm. are dark yellowish brown (yellowish brown what? micronodules?) (10 YR 4/6) in color
G.

337-406
CALC OOZE
Ranges from light brownish gray (10 YR 6/2) into yellowish brown (10 YR 5/4)
Smooth lutite with common forams
Some slight intercalation present
G.

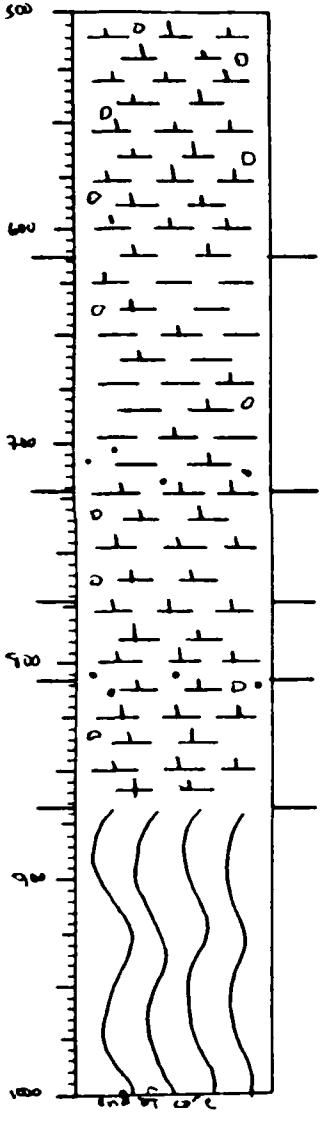
406-613
CALC OOZE
Grayish brown (2.5 Y 5/2)
Scattered mottling
Smooth lutite with common forams
Some areas of Mn micronodule concentration present
G.

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 28 Core No. 41PC

Lithologic Log



Detailed Description

613-723
HIGHLY CALC CLAY
Varies in color from pale brown (10 YR 6/3) to yellowish brown (10 YR 5/4) to grayish brown (10 YR 5/2)
Faint mottling
Smooth lutite with common forams
Some intercalation, along with areas of Mn micronodule concentration in lower 15 cm. of section.
G.

723-774
CALC OOZE
Grayish brown (10 YR 5/2)
Scattered mottling
Smooth lutite with common forams
G.

774-808
CALC OOZE
Pale brown (10 YR 6/3)
Faint mottling
Smooth lutite with common forams
Some Mn micronodules in bottom 5 cm. of section
G.

808-869
CALC OOZE
Brown (10 YR 5/3)
Scattered mottling
Smooth lutite with common forams
Some Mn micronodules in top 2 cm. of section
S, A (Arcuate)

869-1001
FLOW-IN

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 41 PC

Expedition 110 Station No. 28

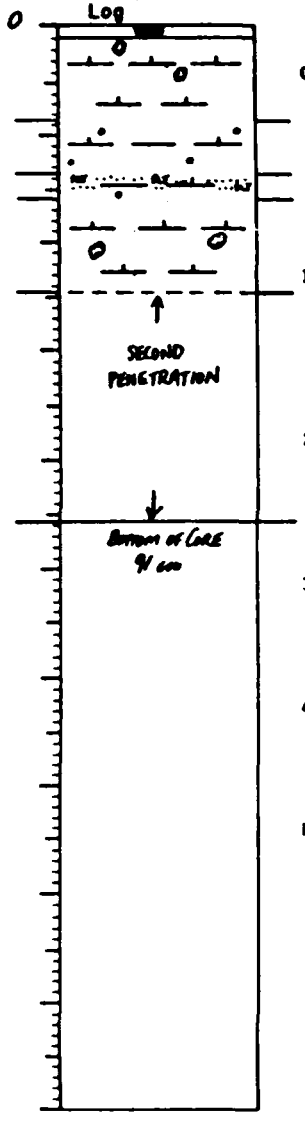
Leg No. 2 Total Core Length 1001 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
40	CALC OOZE	5	TR			44	8	43						
95	CALC OOZE	1	TR			60	4	35			TR			
150	CALC OOZE	2	1			64	3	30						
208	HIGHLY CALC CLAY	3	TR			68	2	27						
270	CALC OOZE	1				46	3	50			TR			
321	HIGHLY CALC CLAY	1	TR			70	2	27						
365	CALC OOZE	5	TR			62	8	25			TR			
605	CALC OOZE	2	2			44	2	50						
640	HIGHLY CALC CLAY	2	TR			67	1	20				TR		
705	CALC OOZE	2	1			32	15	50						
735	C. OOZE	5	1			45	5	45						
790	CALC OOZE	2	2			40	3	53			TR			
830	CALC OOZE	5	3			39	3	50			TR			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 28 Core No 41 PG
Total Length 91 cm. Lat. 4° 44.00 N Long 43° 47.10' W Depth 3315 m corr.
Core condition EXCELLENT Date Described 20 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation
Silty lutite with forams grading from abundant to common
0-2 cm. void
C.

17-27
HIGHLY CALC CLAY/MICRONODULES
10 YR 5/4 yellowish brown
Slightly silty lutite with common forams
Unit contains many 10 YR 4/2 and 10 YR 3/2 dark grayish brown laminations
S.

27-32
HIGHLY CALC CLAY/MICRONODULES
10 YR 5/3 brown but 10 YR 5/6 yellowish brown near contacts
Silty laminations at 27, 29 and 30 cm.
S.

32-49
CALC OOZE
2.5 Y 5/3 olive grayish brown
Few 2.5 Y 4/2 mottles
Smooth moist lutite with common forams

49-91
Repenetration

Note: Stratigraphy is intact below 50 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

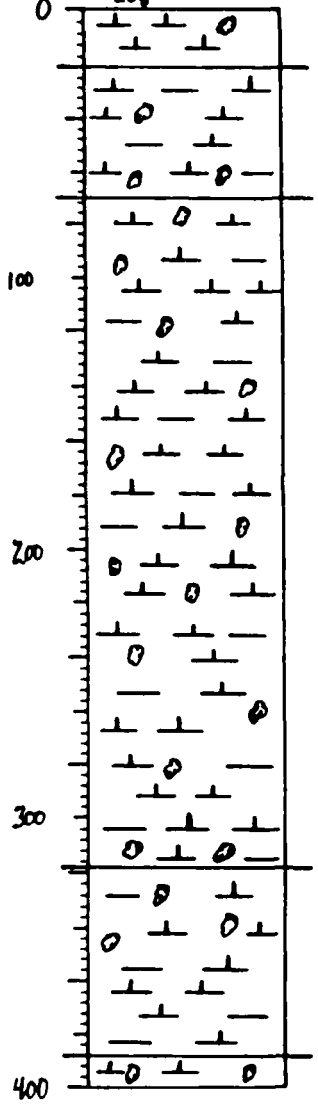
Ship: KNR Core No. 41 PG
Expedition 110 Station No. 28
Leg No. 2 Total Core Length 91 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			35	25	30	3		3	1		TR
12	CALC OOZE		4			30	20	40	TR		6	TR		
22	HIGHLY CALC CL /MICRONODULES	7	30			30	10	23			TR			
29	HIGHLY CALC CL / MICRONODULES	8	35			30	5	21			1			
42	CALC OOZE	10	2			39	8	40			1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 29 Core No 43PC
Total Length 1155 cm. Lat. 9°43.33'N Long 43°59.08'W Depth 3436m
Core condition excellent Date Described 9/14/82 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-20
CALC OOZE
10YR 6/4 light yellowish brown
scattered mottling
smooth lutite with abundant forams
G

20-71
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered to common mottling
smooth lutite with common forams
intercalated intervals in unit, such as 31-32, 38-43, and 65-66 cm.
S, horizontal

71-319
HIGHLY CALC CLAY
2.5Y 5/2 grayish brown to 2.5Y 5/4 light olive brown
common mottling
smooth lutite with common forams
10YR 4/6 dark yellowish brown "stained" areas from 98-100, 195-198, 234-235, 250-253, 292-294 cm.
some areas of Mn micronodule concentration
G

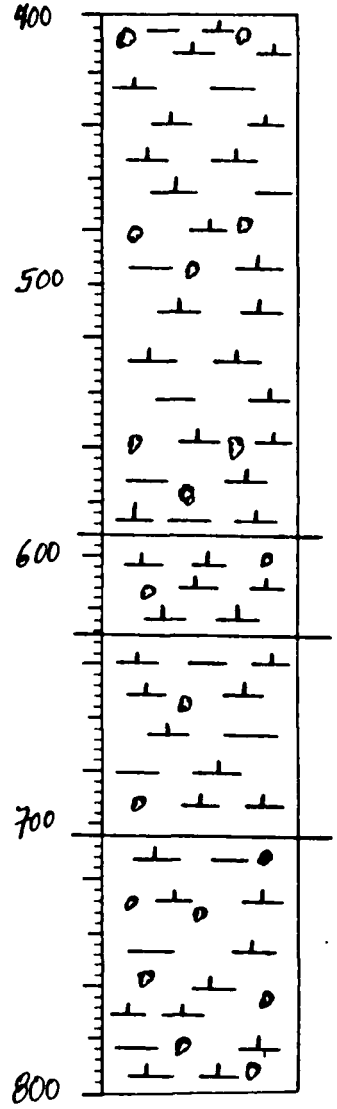
319-388
HIGHLY CALC CLAY
2.5Y 5/4 light olive brown
common mottling decreasing to faint mottling below 373 cm.
smooth lutite with scattered forams
10YR 4/6 dark yellowish brown "stained" areas at 319-320, 333-335 cm.
Mn micronodule concentrations
G

388-593
HIGHLY CALC CLAY
10YR 5/3 brown to 2.5Y 6/4 light yellowish brown
alternating areas of common mottling and faint mottling
smooth lutite with common forams, decreasing to scattered forams below 580 cm.
10YR 4/6 dark yellowish brown from 478-480 cm. and bottommost 2 cm. in unit
G

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 29 Core No 43PC

Lithologic Log



Detailed Description

593-630
HIGHLY CALC CLAY
10YR 5/3 brown
faint to scattered mottling
smooth lutite with common forams
10YR 4/6 dark yellowish brown from 602-604cm.
G

630-704
CALC OOZE
10YR 6/3 pale brown to 674 cm., then 10YR 5/6 yellowish brown to base of unit
faint to scattered mottling throughout
smooth lutite with abundant forams to 674 cm., then common to base of unit
Mn micronodule concentrations from 667-673, and again from 680-685 cm.
10YR 4/6 dark yellowish brown semi-indurated debris at 678-680, 692-693, and 701-704 cm
S, horizontal

704-919
HIGHLY CALC CLAY
10YR 5/3 brown with variations throughout section; 10YR 5/4 yellowish brown from 794-805 cm.
common mottling
smooth lutite with common forams
many 10YR 4/6 dark yellowish brown areas throughout the interval, all under 2 cm. in length
G

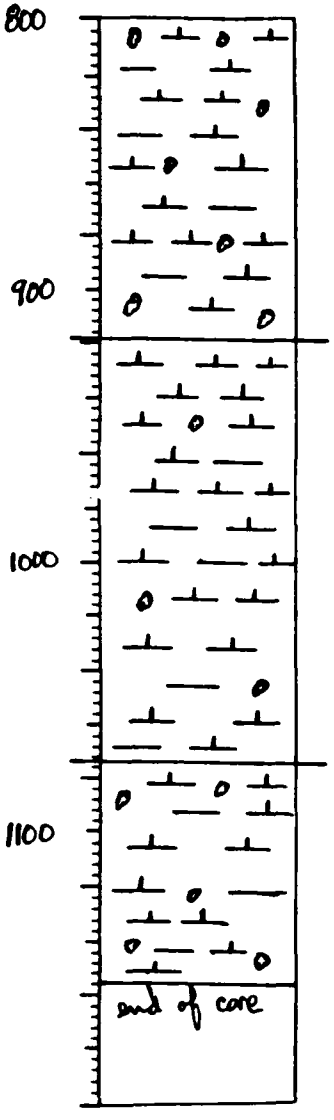
919-1075
CALC OOZE INTO HIGHLY CALC CLAY
10YR 6/3 pale brown
scattered mottling
smooth lutite with common forams
10YR 4/6 dark yellowish brown from 988-989, 992-993, 1000-1002, 1061-1062 cm.
Mn micronodule concentrations from 1061-1066, and 1074-1075 cm.
S, horizontal

VISUAL CORE DESCRIPTION

Page 3 of 3

Ship KNR Cruise 110 Leg 2 Sta. 29 Core No. 43PC

Lithologic Log



Detailed Description

1075-1155
HIGHLY CALC CLAY
2.5Y 5/2 grayish brown
scattered to common mottling
stiff lutite with common forams
void at 1147-1149 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 43 PC

Expedition 110 Station No. 29

Leg No. 2 Total Core Length 1155 cm

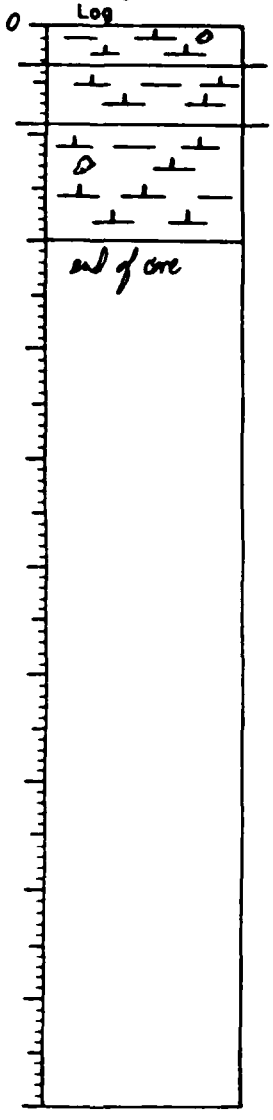
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	calc ooze	Tr	1			67	10	7	Tr		15			Tr
45	highly calc clay	Tr	2			80	2	8			8			
100	" " "	Tr	1			80	2	9			8			
180	" " "	Tr	1			73	6	8			12			
265	" " "	Tr	Tr			83	2	10			5			
340	" " "	Tr	Tr			72	4	12			10			
420	" " "	Tr	1			71	6	10			12			
490	" " "	Tr	1			70	8	9			12			
560	" " "	Tr	Tr			76	5	9			10			
615	" " "	Tr	1			73	7	9			10			
675	calc ooze	Tr	1			68	8	9			14			
760	highly calc clay	Tr	1			77	4	10			8			
830	" " "	Tr	1			74	6	9			10			
925	calc ooze	Tr	2			66	8	9			15			
980	highly calc clay	Tr	1			77	4	10			8			
1060	" " "	Tr	1			72	3	9			15			
1120	" " "	Tr	1			83	2	9			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 29 Core No 43PG
Total Length 80 cm. Lat. 9°43.32'N Long. 43°39.46'W Depth 3936 m
Core condition excellent Date Described 8/19/82 by DAVIS
Physiographic location Owen Rise

Lithologic Log



Detailed Description

0-14

HIGHLY CALC CLAY
10YR 6/3 pale brown
scattered mottling
smooth lutite with abundant forams
core accidentally frozen before splitting
G

14-36

HIGHLY CALC CLAY
10YR 5/4 yellowish brown
faint mottling, if any
smooth lutite with common forams
fairly intercalated throughout interval
10YR 4/6 dark yellowish brown from 29-30 cm. and 33-36 cm.
G

36-80

HIGHLY CALC CLAY
2.5Y 5/2 grayish brown
faint to scattered mottling
smooth lutite with common forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 43PG
Expedition 110 Station No. 29
Leg No. 2 Total Core Length 80 cm

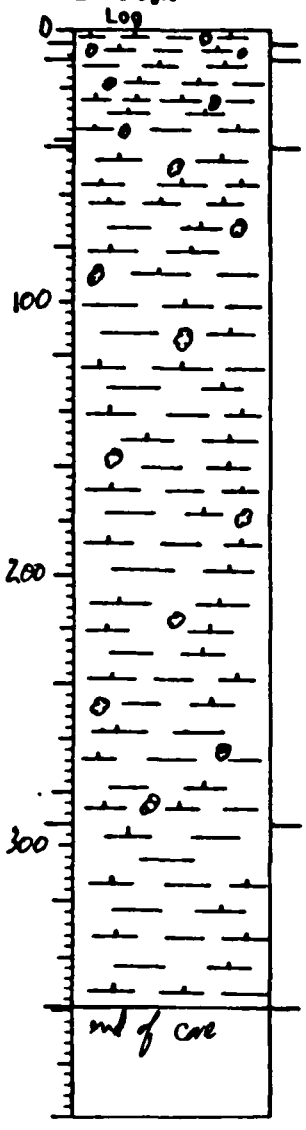
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
10 cm	highly calc clay	Tr	1			74	5	8			12			Tr	
26	" " "	Tr	2			80	2	10			6				
55	" " "	1	1			74	3	13			8				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 30 Core No 44GGC
Total Length 359 cm. Lat. 9°45.33'N Long. 49°48.85'W Depth 3562 m
Core condition excellent Date Described 9/5/88 by AWS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-4
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
faint mottling
smooth lutite with abundant forams
G, horizontal

4-10
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered mottling throughout
smooth lutite with abundant forams
G, horizontal

10-43
HIGHLY CLAC CLAY
10YR 5/6 yellowish brown
10YR 4/4 dark yellowish brown common mottling & intercalating layers from 16-43 cm.
smooth lutite with common forams
intercalated 10YR 4/4 dark yellowish brown region
S, horizontal

43-292
CALC CLAY
10YR 5/4 yellowish brown
10YR 5/3 brown mottling common throughout section
smooth lutite with forams ranging from common to abundant throughout
at 49 cm. indurated 7.5YR 5/8 strong brown thin layer (<0.5 cm). Similar, but thinner unit at 43 cm.; other orange tinted areas up to approximately 3 cm thick, scattered throughout.
G, horizontal

292-359
CALC CLAY
10YR 6/4 light yellowish brown
10YR 5/3 brown mottling scattered throughout
smooth lutite with forams common throughout
7.5YR 5/8 strong brown region from 334-339 cm. including a thin (<0.5 cm.) semi-indurated area at 335 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

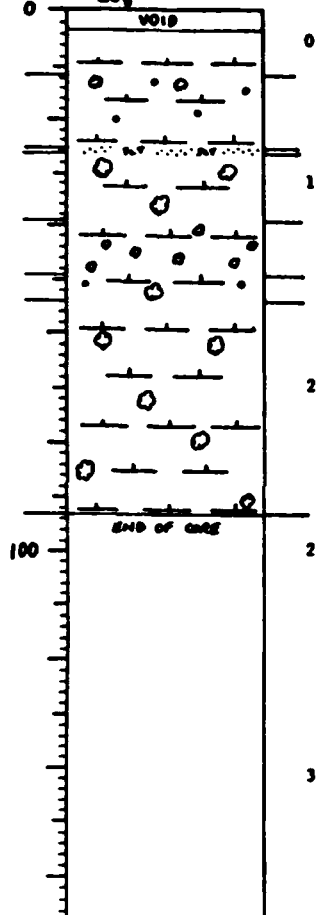
Ship: Knorr Core No. 44GGC
Expedition 110 Station No. 30
Leg No. 2 Total Core Length 359 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2 cm	highly calc clay	2	Tr			80	2	9			7			Tr
6	" " "	2	Tr			80	1	13			4			Tr
30	" " "	Tr	1			80	1	16			2		Tr	
110	" " "	1	Tr		Tr	81	2	13	Tr		3			
188	calc clay	Tr	Tr			87	1	10	Tr		2			
260	" "	Tr	Tr		Tr	86	Tr	13			1			
355	" "	Tr	Tr			87	1	10	Tr		2			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 31 Core No. 45 GGC
Total Length 93 cm. Lat. 9°16.99 N Long. 79°29.16 W Depth 3669 m corr.
Core condition EXCELLENT Date Described 6 FEB 1990 by P. MILLS
Physiographic location CARIBBEAN RISE

Lithologic Log



Detailed Description

0-11
CALC OOZE
10 YR 5/3 brown
Silty lutite with abundant forams
Shrinkage void 0-3 cm.
G.

11-25
CALC OOZE WITH MICRONODULES
10 YR 4/4 dark yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Faint 10 YR 5/3 brown mottles top 2 cm. of unit
Slightly silty moist lutite with common forams
Dark laminations are most concentrated in region 18-23 cm.
S.

25-26
CALC OOZE
10 YR 5/6 yellowish brown
Very silty lutite with common forams
Unit contains semi-lithified bits of material thought to be mn oxide
S.

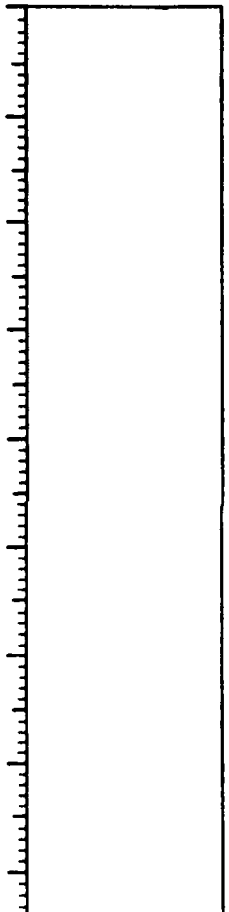
26-39
CALC OOZE
10 YR 5/3 brown
Scattered 10 YR 4/1 dark gray mottling throughout
Silty lutite with abundant forams
Large Mottle/burrow at 27 cm containing foram sand; wavy 10 YR 4/1 dark gray bed from 33-35 cm.; thin 10 YR 5/6 yellowish brown lamination at unit base.
S, textural.

39-49
CALC OOZE
10 YR 5/3.5 yellowish brown
Scattered 10 YR 5/1 gray mottles/flecks
Slightly silty lutite with common forams
Thin 2.5 Y 5/2 grayish brown lamination at 45 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 31 Core No 45 GGC

Lithologic Log



Detailed Description

49-54
CALC OOZE
2.5 Y 5/4 light olive brown
Few 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with scattered forams
Scattered micronodules and two thin laminations of micronodules at 50-51 cm.
G, mottled.

54-93
CALC OOZE
2.5 Y 6/2 light brownish gray
Few 2.5 Y 5/2 grayish brown mottles near top of unit; few faint 2.5 Y N5/ light gray mottles throughout
Slightly silty lutite with common forams
One 2.5 Y N5/gray mottle with concentric structure at 66-67 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 45 GGC

Expedition 110 Station No. 31

Leg No. 2 Total Core Length 93 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	1	4			25	35	30			3	TR		2
18	CALC OOZE W/ MICRONODULES	5	15			35	10	34			1			
25	CALC OOZE	8	12			40	7	32			1			
32	CALC OOZE	1	3			27	25	40			3	TR		1
45	CALC OOZE	2	3			35	4	55			1			
52	CALC OOZE	3	7			31	8	40			1			
75	CALC OOZE	3	2			44	10	40			1			
92	CALC OOZE	2	2			45	15	35			1			

VISUAL CORE DESCRIPTION

Page 1 of 3

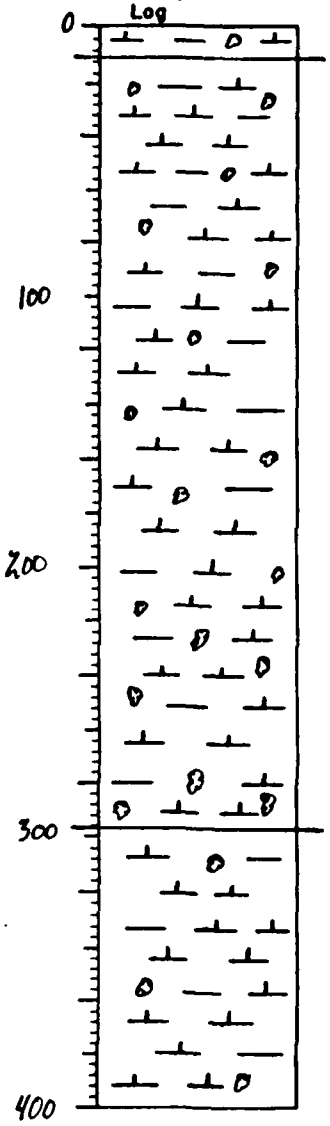
Ship Knorr Cruise 110 Leg 2 Sta. 31 Core No 46 PC

Total Length 1114 cm. Lat. 9°46.28'N Long 93°22.92'W Depth 3689m

Core condition excellent Date Described 4/20/89 by Davis

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-11
HIGHLY CALC CLAY
10YR 5/3 brown
scattered mottling
smooth lutite with common forams
interval is basically intercalated throughout.
from 8-11 cm is 10YR 5/4 yellowish brown
G

11-297
HIGHLY CALC CLAY
2.5Y 4/4 olive brown
common mottling
smooth lutite with common forams
numerous 10YR 4/6 dark yellowish brown "stained" areas throughout interval, such as 103-106, 155-157, and 200-203 cm.
G

297-467
HIGHLY CALC CLAY
10YR 5/3 brown
scattered mottling
smooth lutite with scattered to common forams
10YR 4/6 dark yellowish brown areas from 354-363, and 428 cm.
bottom 10 cm has a hint of 10YR 4/6 dark yellowish brown color
G

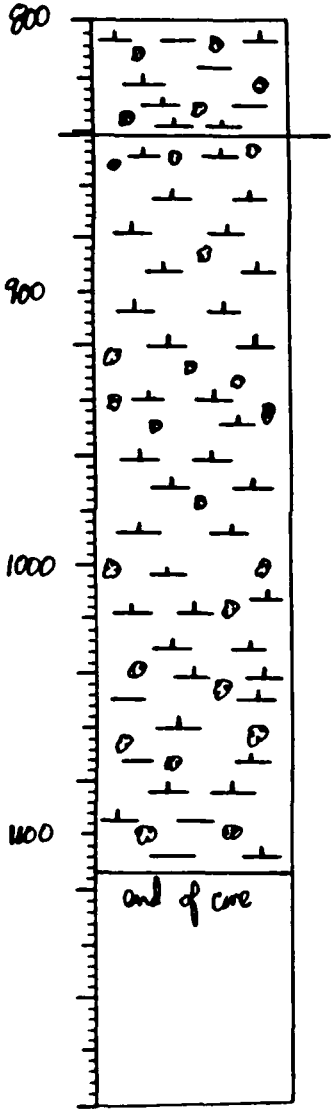
467-575
CALC OOZE
10YR 6/3 pale brown to 536 cm, then 10YR 5/4 yellowish brown
scattered mottling
smooth lutite with forams increasing from scattered to abundant at 515 cm, decreasing at 540 cm. to common
10YR 4/6 dark yellowish brown from 476-478 cm.
scattered areas of intercalations and concentrations of Mn micronodules below 535 cm.
S, Arcuate

575-842
HIGHLY CALC CLAY
2.5Y 5/2 grayish brown to 5Y 5/3 olive
commonly mottled
smooth lutite with scattered forams
10YR 4/6 dark yellowish brown debris areas at 737-738, 768, and a few other thin layers
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 31 Core No. 46PC

Lithologic Log

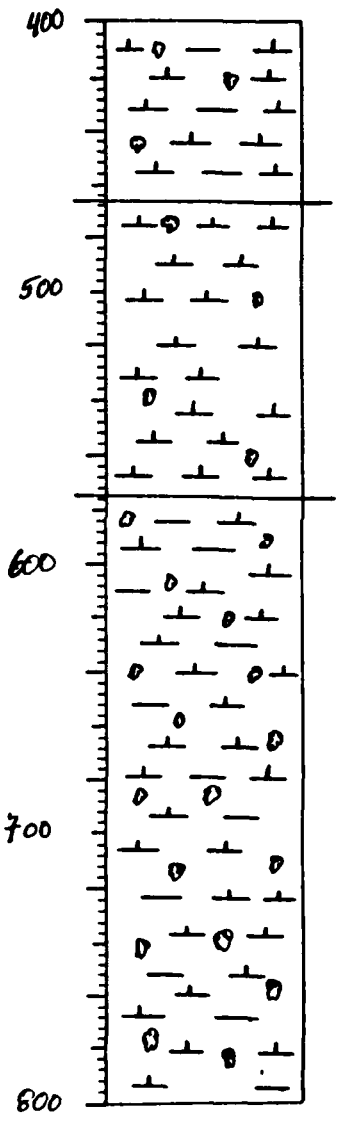


Detailed Description

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 31 Core No. 46PC

Lithologic Log



Detailed Description

842-1114

CALC OOZE INTO HIGHLY CALC CLAY
10YR 5/3 brown
common mottling between 842-856,921-952, 999 to base of core; other areas are faintly mottled
smooth lutite with common forams between 842-910, 952-977; in remaining areas forams are scattered
10YR 4/6 dark yellowish brown areas at 913-916, 977-979, 991-995, 1079-1081 cm.
lithified "chunks" at 994 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 46 PC

Expedition 110 Station No. 31

Leg No. 2 Total Core Length 1114 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6 cm	highly calc clay	Tr	2			77	3	11			7			
65	" " "	Tr	1			70	7	10			12			
150	" " "	Tr	1			72	6	9			12			
230	" " "	Tr	1			80	3	10			6			
310	" " "	Tr	1			81	3	10			5			
380	" " "	Tr	1			75	5	9			10			
450	" " "	Tr	1			73	6	9			12			
505	calc ooze	Tr	1			65	10	8			16			
560	" "	Tr	1			69	6	10			14			
630	highly calc clay	Tr	1			80	2	11			6			
710	" " "	Tr	1			82	2	9			6			
800	" " "	Tr	1			76	4	11			8			
890	calc ooze	Tr	1			65	7	12			15			
980	" "	Tr	1			69	8	10			12			
1050	highly calc clay	Tr	1			78	2	15			4			

VISUAL CORE DESCRIPTION

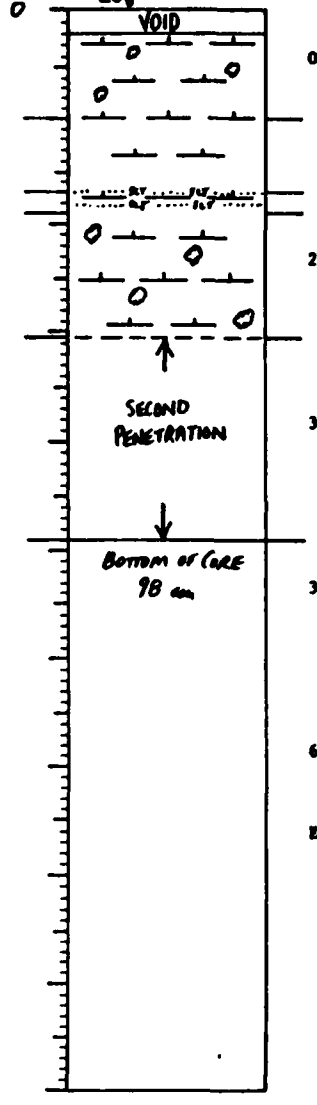
Ship KNR Cruise 110 Leg 2 Sta. 31 Core No 46 PC

Total Length 98 cm. Lat. 4° 46.28 N Long. 42° 27.42 W Depth 3689 m corr.

Core condition GOOD Date Described 20 MAR, 1984 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-20
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-4 cm.
G.

20-34
CALC OOZE
10 YR 5/4 yellowish brown changing to 10 YR 5/3 brown at 27 cm.
Slightly silty lutite with common forams
Unit contains many 10 YR 4/2 and 10 YR 3/2 dark grayish brown laminations

34-38
CALC CLAY
10 YR 5/4 yellowish brown
Slightly silty lutite with common forams
10 YR 5/6 yellowish brown silty laminations at 34 and 36 cm.
G.

38-61
CALC OOZE
2.5 Y 5/3 light olive grayish brown
Scattered 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with common forams
2.5 Y N3/ very dark gray lamination at 46 cm.; top 5 cm. of unit slightly more yellow

61-98
Second Penetration

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 46 PG

Expedition 110 Station No. 31

Leg No. 2 Total Core Length 98 cm

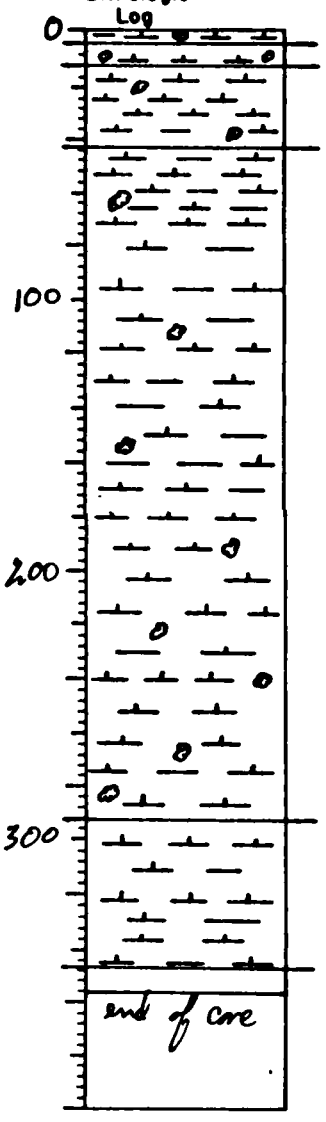
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	TR	3			35	22	35	TR		3	2		TR
15	CALC OOZE	TR	4			40	18	34	1		2	1		
27	CALC OOZE	TR	5			45	12	35	1	TR	2	TR		
35	CALC CLAY	1	7			74	3	15			1			
51	CALC OOZE	3	4			40	6	47			TR			

VISUAL CORE DESCRIPTION

Page 1 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No 18GGC
Total Length 357 cm. Lat. 4°51.3'N Long. 45°18.8'W Depth 3092 m
Core condition excellent Date Described 5/14/80 by DAVIS
Physiographic location Coarse Rise

Lithologic Log



Detailed Description

0-4
HIGHLY CALC CLAY
10YR 5/3 brown
faint, dark mottling throughout
smooth lutite with abundant forams
G, horizontal

4-14
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered mottling of overlying and underlying material throughout
smooth lutite with forams decreasing from abundant to common downcore
G, horizontal

14-43
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling of 10YR 4/3 dark brown material throughout
smooth lutite with forams decreasing from abundant to scattered downsection
10YR 4/3 dark brown intercalated layers about 1 cm thick throughout interval
S, horizontal

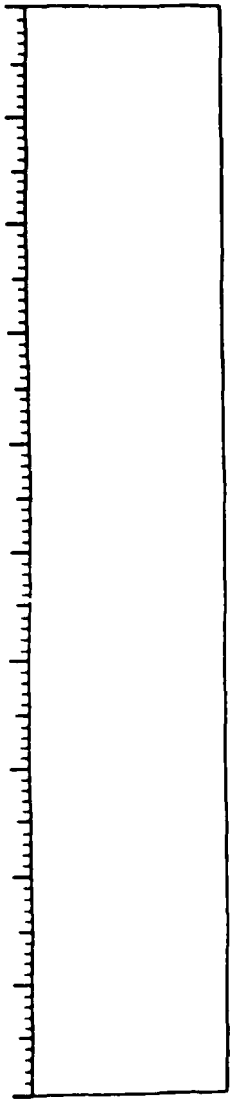
43-293
CALC TO HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered mottling of 10YR 5/3 brown material throughout
smooth lutite with forams common throughout
top 1 cm indurated 10YR 5/8 yellowish brown transition material; other yellowish brown areas (<0.5 cm) also found
G, horizontal

293-347
HIGHLY CALC TO CALC CLAY
10YR 6/3 pale brown
scattered mottling of dark material found throughout
smooth lutite with common forams; bottom 11 cm has few forams
distinct 10YR 6/3 pale brown zone from 334-335 cm. Few intercalated areas also found. Basal 3 cm 10YR 5/6 yellowish brown in color
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No. 48GGC

Lithologic Log



Detailed Description

347-357
HIGHLY CALC CLAY
10YR 6/3 pale brown
common mottling of darker material throughout section
smooth lutite with scattered forams throughout

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 48GGC

Expedition 110 Station No. 33

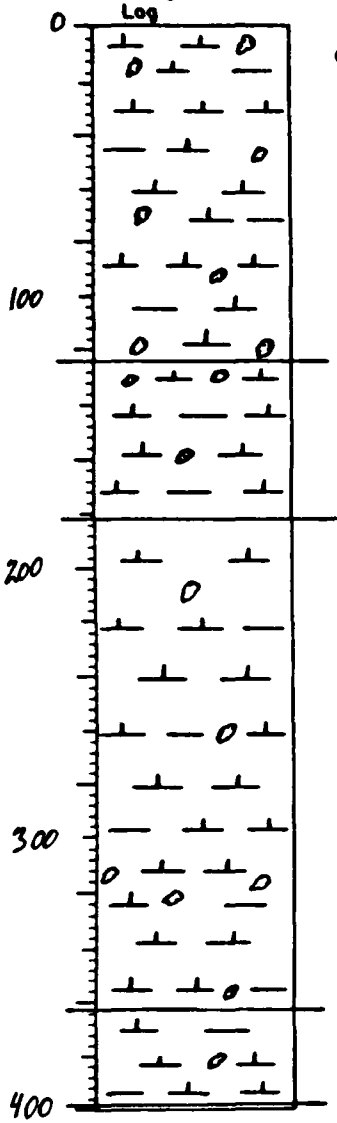
Leg No. 2 Total Core Length 357 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2 cm	highly calc clay	2	1			72	2	13			10			Tr
7	" " "	1	1			80	2	12	Tr		4			Tr
33	" " "	2	1			81	1	13			2			
110	calc clay	1	1			84	1	11			2			
180	highly calc clay	Tr	Tr			81	3	13			3			
250	" " "	Tr	1			84	1	12			3			
300	highly calc clay	Tr	1			79	3	13			4			
320	" " "	Tr	Tr			75	5	8			12			
345	calc clay	Tr	1			88	Tr	9			2			
350	highly calc clay	1	2			80	2	11			4			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No 49PC
Total Length 1019 cm. Lat. 4°50.01'N Long. 45°18.0'W Depth 3908 m
Core condition Good Date Described 4/7/89 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-124
HIGHLY CALC CLAY
10YR 5/3 brown
commonly mottled
smooth lutite with common forams
core accidentally frozen before splitting resulting in some disturbance throughout core
G

124-182
HIGHLY CALC CLAY
10YR 5/3 brown
commonly mottled in top 10 cms, scattered through remainder of section
smooth lutite with scattered forams
S, horizontal

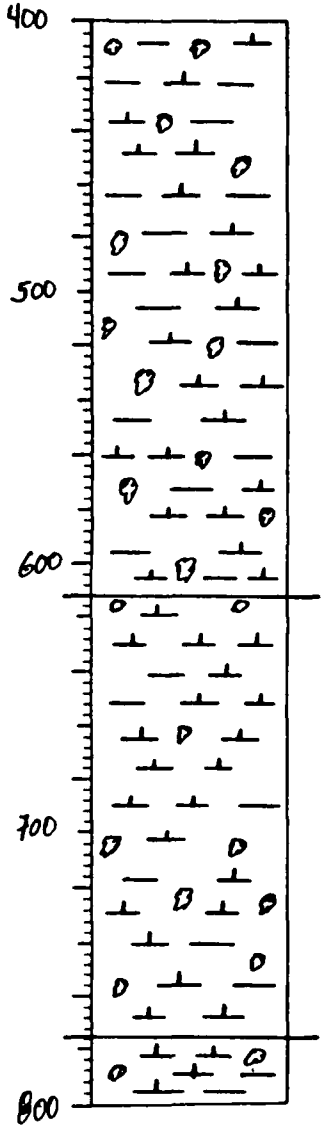
182-362
HIGHLY CALC CLAY
10YR 5/3 brown to 10YR 5/2 grayish brown
scattered to faint mottling, except from 306-325 cm. which is commonly mottled
smooth lutite with common forams
10YR 4/6 dark yellowish brown at 219 cm., 221-222 cm.
top 30 cm. and bottom 17 cm. are 10YR 6/3 pale brown with faint mottling and abundant forams
G

362-398
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faintly mottled
smooth lutite with common forams
top 3 cm. contain an abundance of Mn micronodules
bottom 1 cm. is 10YR 4/6 dark yellowish brown
S, horizontal

398-612
CALC CLAY
10YR 5/3 brown
commonly mottled
smooth lutite with common forams
top 20 cm. only faintly mottled
419-422 cm.: Mn micronodule concentration
G

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No 49PC

Lithologic Log



Detailed Description

612-775
HIGHLY CALC CLAY
10YR 7/2 light gray with 10YR 6/4 light yellowish brown from 694-705 cm. and 10YR 5/4 yellowish brown from 761 to base of interval
faint to scattered mottling, except from 612-620, 700-761 which is scattered to commonly mottled
smooth lutite with common to abundant forams
Mn micronodule concentrations at 656-660, 761-766, and 773-775 cm.
G

775-924
CALC CLAY
10YR 5/3 brown
commonly mottled
smooth lutite with scattered forams
fairly heavily cracked throughout interval
from 794-809, 909-924 cm., sediment is slightly lighter in color with common forams
G

924-960
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown to 947 cm., then 10YR 5/4 yellowish brown
scattered mottling
smooth lutite
abundant forams to 944 cm., then scattered to 960 cm.
numerous layers of Mn micronodules from 947 to base of unit
S, horizontal

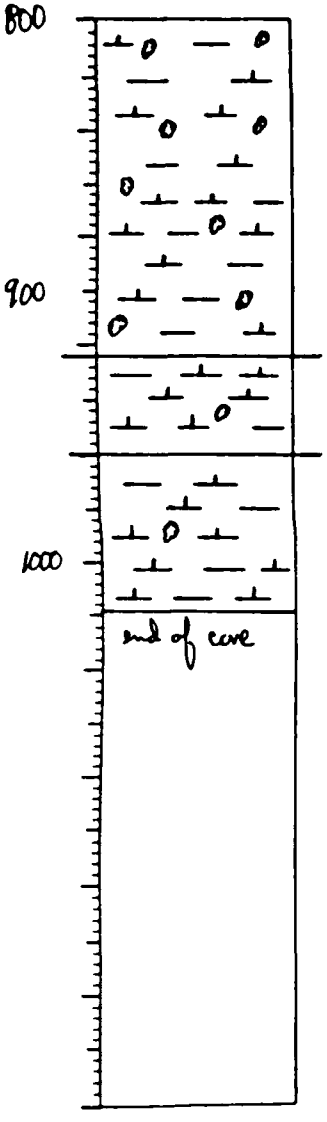
960-1019
CALC CLAY
10YR 5/3 brown
scattered mottling
firm lutite with few, if any, forams
fairly heavily cracked throughout interval

END OF CORE...

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No. 49PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 49PC

Expedition 110 Station No. 33

Leg No. 2 Total Core Length 1019 cm

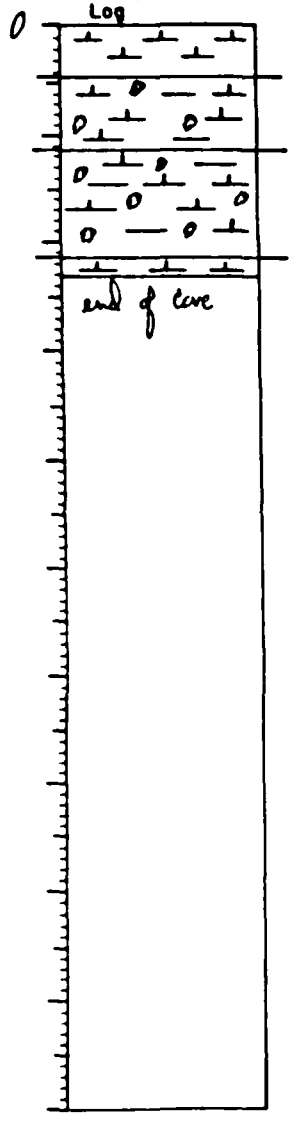
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
50 cm	highly calc clay	Tr	1			80	3	10			6			
120	" " "		2			78	1	15			4			
160	" " "	Tr	1			77	2	16			4			
230	" " "		1			77	5	9			8			
320	" " "		1			79	4	10			6			
380	" " "	Tr	1			81	3	10			5			
450	calc clay		1			85	2	8			4			
540	" "		1			84	3	6			6			
620	highly calc clay		1			71	6	10			12			
700	" " "		1			82	2	8			7			
760	" " "		1			74	4	9			12			
815	calc clay		1			90	1	5			3			
946	highly calc clay		1			75	4	8			12			
990	calc clay		1			88	1	8			4			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 33 Core No 49PG
Total Length 93 cm. Lat. 4°50.0'N Long. 45°13.0'W Depth 3908 m
Core condition excellent Date Described 4/15/82 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-18

CALC OOZE
10YR 5/3 brown into 10YR 5/6 yellowish brown
faint mottling
lutite with abundant forams
multiple penetration?
G

18-46

HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown into 10YR 5/4 yellowish brown
scattered to common mottling
smooth lutite with common forams
interval has areas of heavy intercalation, such as from 27-30, 33-35, 37-38, and 44-46 cm.
G

46-86

HIGHLY CALC CLAY
10YR 5/3 brown
common mottling
smooth lutite with common forams
from 49-51 cm. is 10YR 4/6 dark yellowish brown ice-rafted debris, bounded by two distinct semi-indurated very thin (≤0.25 cm.) layers
S, horizontal

86-93

CALC OOZE
10YR 5/3 brown
faint mottling
lutite with abundant forams
repeat of uppermost unit?

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

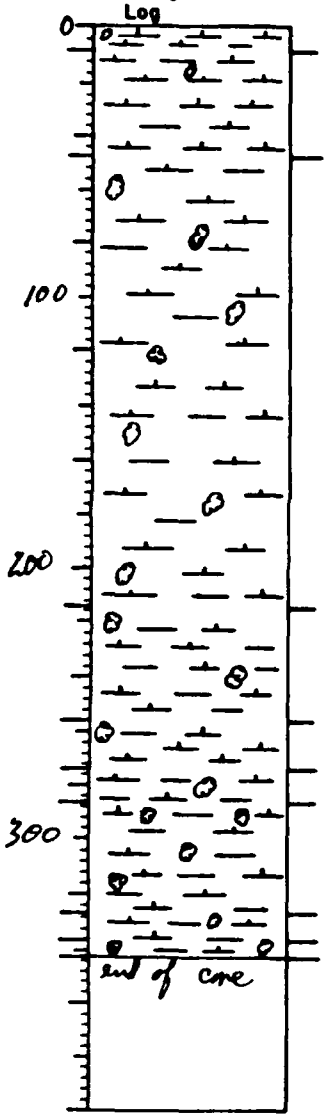
Ship: Knorr Core No. 49 PG
Expedition 110 Station No. 33
Leg No. 2 Total Core Length 93 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13 cm	calc ooze	Tr	1			64	8	9			18			Tr
32	highly calc clay	Tr	2			79	3	10			6			
65	" " "	Tr	1			78	3	10			8			
88	calc ooze	Tr	1			60	8	11			20			Tr

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 34 Core No 50 GGC
Total Length 343 cm. Lat. 5°48'N Long. 42°23'W Depth 2895 m
Core condition excellent Date Described 4/4/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-8
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
faint mottling
smooth lutite with abundant foram
uppermost 3 cm of sediment extend out of the core liner
G, horizontal

8-48
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling
smooth lutite with forams common, decreasing to scattered
from 20-21 cm, intercalated 7.5YR 4/4 dark brown material
G, incline 5°

48-215
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
mottles of 10YR 6/2 light brownish gray material common throughout
smooth lutite with forams ranging from common to scattered throughout
uppermost 1 cm indurated material, 10YR 4/6 dark yellowish brown in color. Transition zone
G, horizontal

215-256
CALC CLAY
10YR 5/6 yellowish brown
scattered large mottles of 10YR 6/2 light brownish gray material
smooth lutite with few forams
219-220 cm - 10YR 4/6 dark yellowish brown lutite
G, horizontal

256-274
HIGHLY CALC CLAY
10YR 6/3 pale brown
scattered mottles decrease to few or none downcore
smooth lutite with few to common forams
G, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 34 Core No 50GGC

Lithologic Log

Detailed Description

274-287
CALC CLAY
10YR 6/6 brownish yellow
few mottles
smooth lutite with few to no forams
2 thin faint orange zones at 282 & 283 cms
G, horizontal

287-327
CALC CLAY
10YR 6/3 pale brown
mottles of 10YR 6/2 light brownish gray material extensive in top 5 cm, then decrease to faint downcore
smooth lutite with scattered forams
G, horizontal

327-337
CALC CLAY
10YR 5/6 yellowish brown
faint mottles
smooth lutite with few forams
G, horizontal

337-343
CALC CLAY
10YR 5/3 brown
scattered mottles
smooth lutite with scattered forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 50GGC

Expedition 110 Station No. 34

Leg No. 2 Total Core Length 343 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5 cm	highly calc clay	Tr	Tr			79	3	12	Tr		5			1
15	" " "	Tr	2			74	2	18			4			
80	" " "	Tr	2			76	2	19			1			
160	" " "	1	1			75	3	15	Tr		5			
240	calc clay	Tr	Tr			86	1	11	Tr		2			
265	highly calc clay	Tr	Tr			76	3	15			6			
280	calc clay	Tr	Tr			85	2	10			3			
310	" "	Tr	Tr			85	1	12			2			
330	" "	1	Tr			90	Tr	8			1			
340	" "	Tr	Tr			86	1	12			1			

VISUAL CORE DESCRIPTION

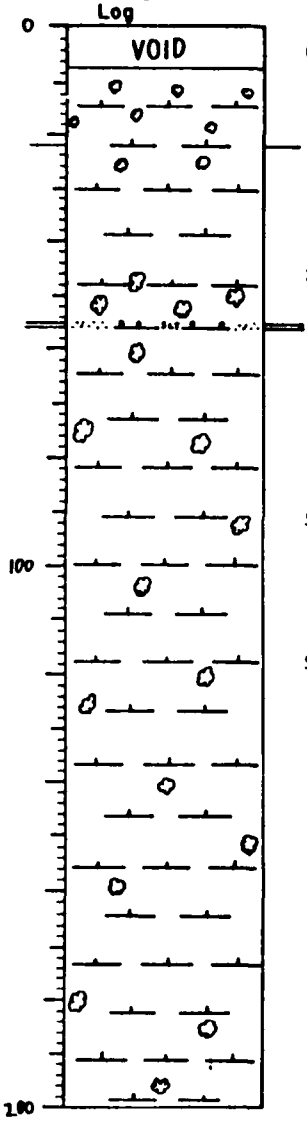
Ship KNR Cruise 110 Leg 2 Sta. 35 Core No 51GGC

Total Length 386 cm. Lat. 4°59.97 N Long 43°07.93 W Depth 4097 m corr.

Core condition EXCELLENT Date Described 7 JAN, 1979 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-22
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation of major colors
Silty lutite with abundant forams grading to common
Shrinkage void 0-7 cm.
G.

22-55
CALC OOZE
10 YR 5/4 yellowish brown with common 10 YR 3/2 very dark grayish brown laminations
Few 10 YR 6/3 pale brown mottles near top of unit, common 2.5 Y 4/2 dark grayish brown mottles below 47 cm.
Slightly silty lutite with common forams
Dark laminations most concentrated in the regions 25-32 cm. and 44-48 cm.
Very S, colorational and textural.

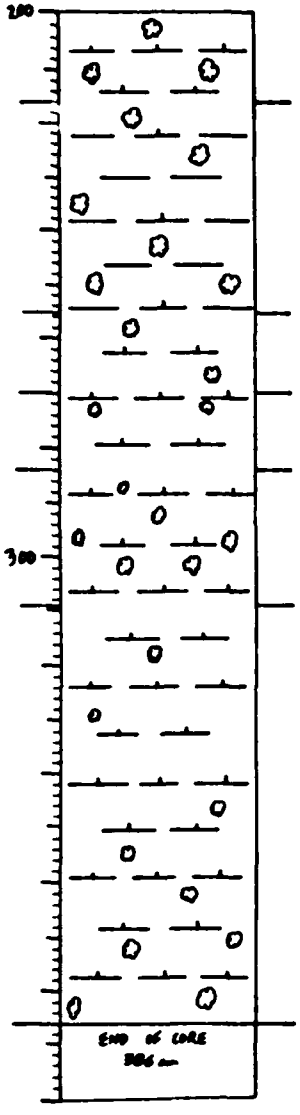
55-56
HIGHLY CALC CLAY/MICRONODULES
7.5 YR 4/6 strong brown
Very silty lutite/mn oxide
Unit is very silty and slightly lithified
S.

56-216
CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 5/2 grayish brown and 2.5 YR 4/2 dark grayish brown mottles; scattered 2.5 Y N5/ gray and few 10 YR 3/2 very dark grayish brown mottles from 185-192 cm.
Slightly silty lutite with common forams becoming scattered near unit base
Few regions tainted with 10 YR 5/6 yellowish brown most notably 90, 121, 124, 198, 200 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 35 Core No 51 GGC

Lithologic Log



Detailed Description

216-255
CALC CLAY
10 YR 4.5/4 dark yellowish brown
Common 2.5 Y 4/2 dark grayish brown mottles/ burrows; some large
Smooth compact lutite with few forams
Region from 221-224 cm. tinged with 10 YR 5/6 yellowish brown
G, mottled.

255-270
CALC OOZE
2.5 Y 5/2 grayish brown
Scattered 10 YR 4.5/4 dark yellowish brown and 2.5 Y 4/2 dark grayish brown mottles
Smooth lutite with scattered forams
G, mottled.

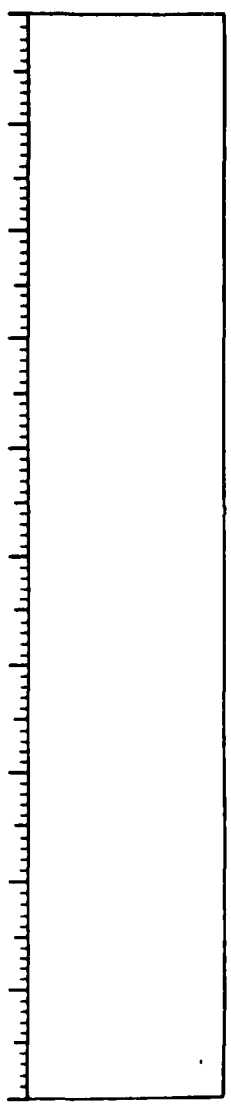
270-284
CALC OOZE
2.5 Y 6/2 light brownish gray
Few 2.5 Y 5/2 grayish brown mottles near top of unit
Slightly silty lutite with common forams
Two large 2.5 Y 4/2 dark grayish brown burrows at 274-275 and 280-282 cm.; 2.5 Y N3/ very dark gray mottle at 277 cm.
G.

284-309
CALC OOZE
2.5 Y 5/4 light olive brown
Faint 2.5 Y 4/2 olive brown mottles becoming common near unit base
Smooth lutite with common forams grading to scattered
.5 cm. thick 10 YR 5/6 silty lamination
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 35 Core No 51 GGC

Lithologic Log



Detailed Description

309-386
CALC OOZE
2.5 Y 6/3 light yellowish brown-gray
Faint 7.5 Y 5/2 grayish brown mottling throughout; common 2.5 Y 4/2 dark grayish brown mottles below 373 cm.
Silty lutite with common forams except smooth lutite with scattered forams from 362-372 cm
Region from 371-373 cm. tinged with 10 YR 5/6 yellowish brown; large convex upward void from 381-386 cm. (core catcher).

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 51 GGC

Expedition 110 Station No. 35

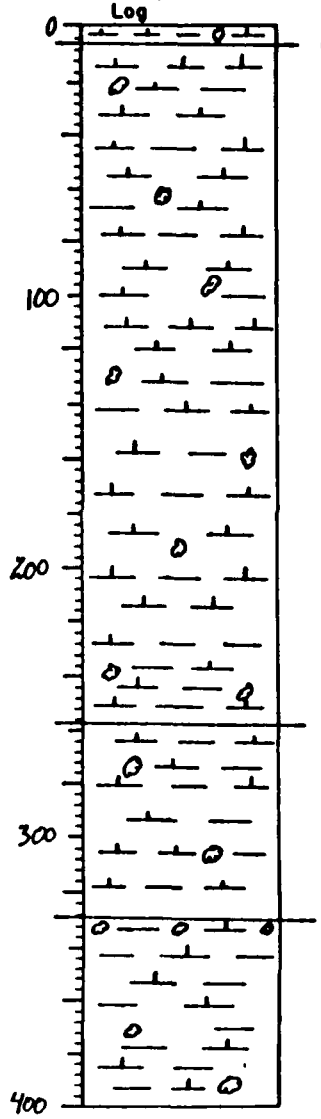
Leg No. 2 Total Core Length 386 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
9	CALC-SILIC OOZE	TR	5			18	35	30			2	2		3
18	CALC OOZE	1	6			30	25	35			3			TR
40	CALC OOZE	5	6			40	5	47		TR	1			
55	HIGHLY CALC CL MICROMODULES	7	35			30	4	22			2			
110	CALC OOZE	1	5			50	10	33			1			
190	CALC OOZE	3	6			35	20	35			1			
240	CALC CLAY	6	4			80	TR	8			2			
265	CALC OOZE	12	5			40	6	36			1			
277	CALC OOZE	2	3			45	15	34			1			
298	CALC OOZE	10	4			55	3	28			TR			
345	CALC OOZE	2	1			45	15	36			1			
380	CALC OOZE	10	3			40	12	23			2			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 35 Core No 51PC
Total Length 1173 cm. Lat. 1°53.9'N Long 43°26.5'W Depth 4158 m
Core condition excellent Date Described 10/11/82 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-6
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
10YR 5/3 faint brown mottling
smooth lutite with common forams
bottom contact not visible-sediment cracked. Lithified 7.5YR 5/6 strong brown material at base of unit, 0.5 cm. thick
?, horizontal

6-258
HIGHLY CALC CLAY WITH SLIGHTLY CALC CLAY
10YR 6/4 light yellowish brown
10YR 5/3 brown mottling common to scattered throughout
smooth lutite with common forams
at 75 & 208 cm, semi-lithified 7.5YR 5/6 strong brown material 0.5 cm. thick
G, horizontal

258-329
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown darkening to 10YR 5/4 yellowish brown down section
scattered mottling of 10YR 3/3 dark brown material
smooth lutite with common forams throughout
slight increase in orange tint at 324 cm. to base of unit. Base is a semi-lithified, 0.5 cm thick area of 7.5YR 5/6 strong brown material
S, horizontal

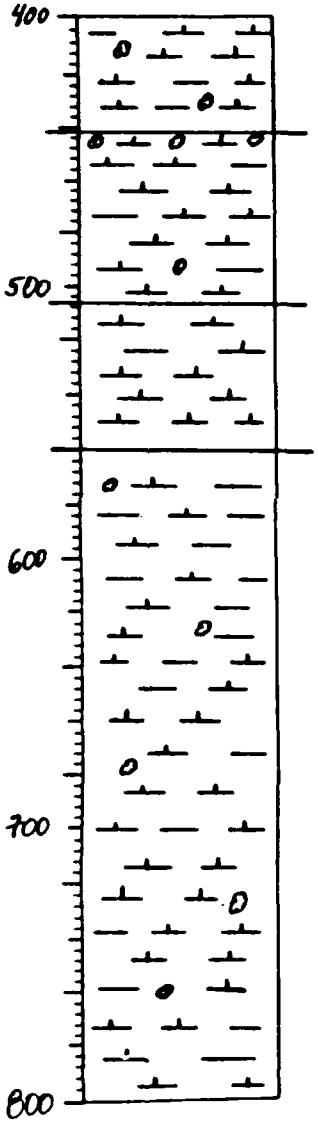
329-442
CALC CLAY TO HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
extensively mottled in uppper 10 cm. of unit with 10YR 5/3 brown material. Remainder of unit is faintly mottled.
smooth lutite with common forams throughout
bottom 2.5 cm 7.5YR 5/6 strong brown in color; contains thin discontinuous laminations & small (< .25 cm in diameter) pieces of indurated material
G, horizontal

442-507
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
upper 10 cm extensively mottled with 10YR 5/3 brown material; mottling decreases from faint to none by 470 cm.
smooth lutite with common forams, becoming a slightly silty lutite with abundant forams & pteropods about 473 cm.
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 35 Core No 52PC

Lithologic Log



Detailed Description

507-560
HIGHLY CALC CLAY
10YR 5/6 yellowish brown grading to 10YR 5/4 yellowish brown downcore
faint mottling, if any
smooth lutite with common forams
numerous 10YR 5/8 yellow brown to 10YR 4/4 dark yellowish brown laminations throughout section
S, incline

560-842
HIGHLY CALC CLAY WITH CALC CLAY
10YR 5/4 yellowish brown
common mottling with 10YR 5/1 gray material throughout
smooth lutite with common forams
G

842-882
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
faint mottling
smooth lutite with scattered forams
very gradual upper and lower contacts
G

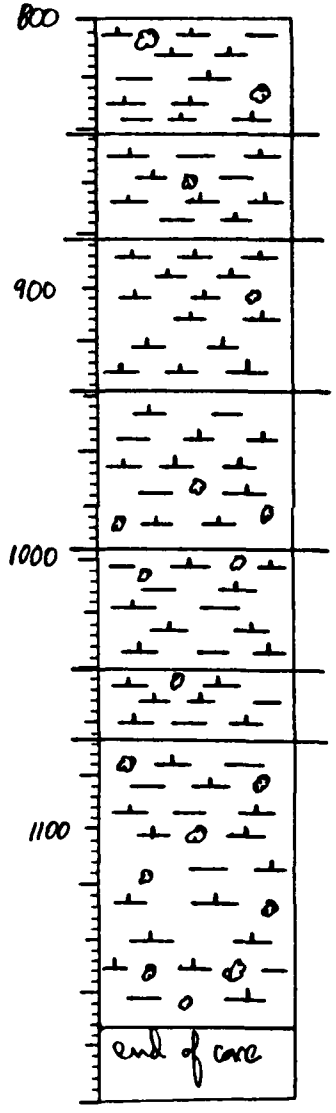
882-939
CALC OOZE
10YR 6/3 pale brown
faint mottling
lutite with abundant forams
G, horizontal

939-996
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
common mottling in lower half of section
smooth lutite with few to scattered forams
10YR 5/3 brown from 962-977 cm; extreme mottling? 10YR 5/8 yellowish brown 955-956 cm. Pod of forams at 948-949 cm.
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 35 Core No 52PC

Lithologic Log



Detailed Description

996-1041
HIGHLY CALC CLAY
10YR 6/3 pale brown
scattered mottling of 10YR 5/1 gray material, mainly in upper portion of section.
lutite with abundant forams
foram content increases through upper 10-15 cm.
S, horizontal

1041-1067
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
faint mottling of 10YR 5/1 gray material, along with intercalated areas
smooth lutite with common forams
upper and lower-most 1-2 cms. are intercalated 10YR 4/4 dark yellowish brown material; other thin (<0.5 cm.) intercalated areas throughout section.
S, horizontal

1067-1173
HIGHLY CALC CLAY
10 YR 6/3 pale brown
extensively mottled with 10YR 5/1 gray and 10YR 5/3 brown material
smooth lutite with common forams
1139-1140 cm: 10YR 4/4 dark yellowish brown zone

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 52PC

Expedition 110 Station No. 35

Leg No. 2 Total Core Length 1173 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4 cm	highly calc clay	Tr	Tr			71	1	25			3			
80	" " "	1	1			76	2	15			5			
160	" " "	Tr	1			71	10	12			6			
230	slightly calc clay	4	1			90		2			3			
300	highly calc clay	1	Tr			78	3	11			7			
332	calc clay	2	2			82	1	9			4			
405	highly calc clay	3	1			70	2	9			15			
450	" " "	2	2			76	2	13			5			
530	" " "	1	2			75	2	12			8			
590	calc clay	2	2			84	1	8			3			
680	highly calc clay	2	2			74	3	14			5			
770	" " "	2	1			75	1	18			3			
850	" " "	2	1			70	4	14			10			
920	calc ooze	1	1			64	6	16			12			
970	highly calc clay	Tr	2			75	4	12			7			
1015	" " "	Tr	1			72	4	11			12			
1050	" " "	Tr	1			81	3	10			5			
1130	" " "	Tr	2			80	2	10			6			

VISUAL CORE DESCRIPTION

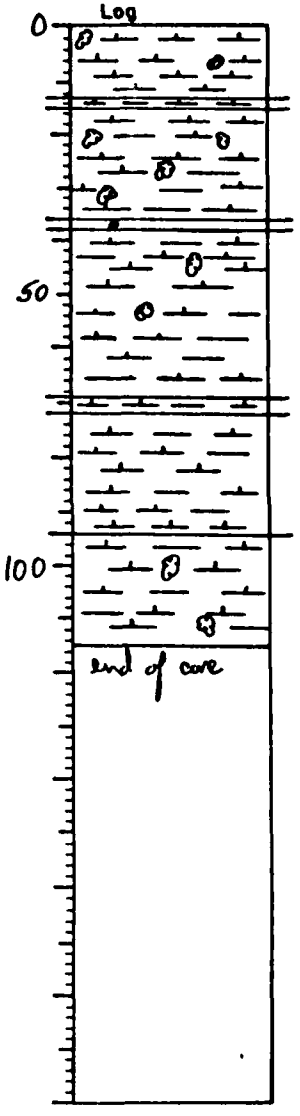
Ship Knorr Cruise 110 Leg 2 Sta. 35 Core No 52PG

Total Length 115 cm. Lat. 5°52.9'N Long. 42°02.65'W Depth 4458 m

Core condition excellent Date Described 5/29/78 by Davis

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 6/4 light yellowish brown
faint mottling
smooth lutite with abundant forams
G, horizontal

13-15
HIGHLY CALC CLAY
10 YR 4/4 dark yellowish brown
smooth lutite with common forams
intercalated?
S, horizontal (masked by break in liner)

15-36
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
common mottling throughout with 10YR 5/3 brown material
smooth lutite with forams common
S, horizontal

36-38
CALC OOZE WITH CLAY
10YR 6/4 light yellowish brown
mottling faint
slightly silty lutite with extensive forams
G, horizontal

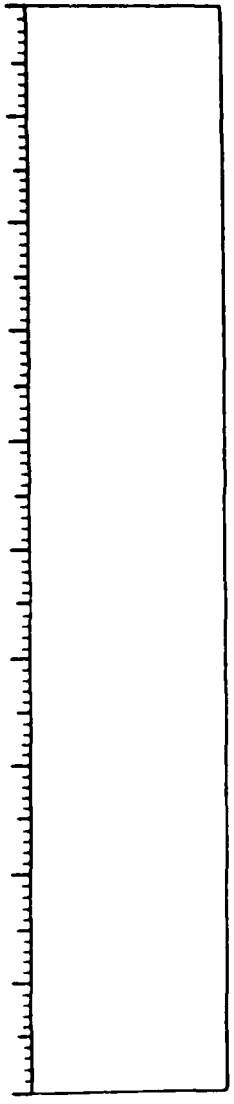
38-69
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
scattered 10YR 3/3 dark brown mottles. 10YR 3/3 dark brown intercalated layers up to a total of of 2 cms. thick from 54-69 cm.
smooth lutite with forams common throughout
0.5 cm thick arcuate foram/pteropod rich layer at 50 cm.
S, horizontal

69-72
CALC OOZE WITH CLAY
10YR 5/2 grayish brown
slightly silty lutite with abundant foram/pteropods
foram/pteropod rich
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 35 Core No 52PG

Lithologic Log



Detailed Description

72-94

HIGHLY CALC CLAY
10YR 5/6 yellowish brown
scattered 10YR 3/3 dark brown intercalated layers down to 82 cm.
smooth lutite with forams decreasing from common to scattered downsection
0.5 cm. thick foram/pteropod rich layers at 74 & 79 cms., 10YR 5/8 yellowish brown from 72-75 cm. & 93.5-94 cm.
G, horizontal

94-115

CALC OOZE WITH CLAY
10YR 5/4 yellowish brown
10YR 5/3 brown mottles
lutite with forams common

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 52PG

Expedition 110 Station No. 35

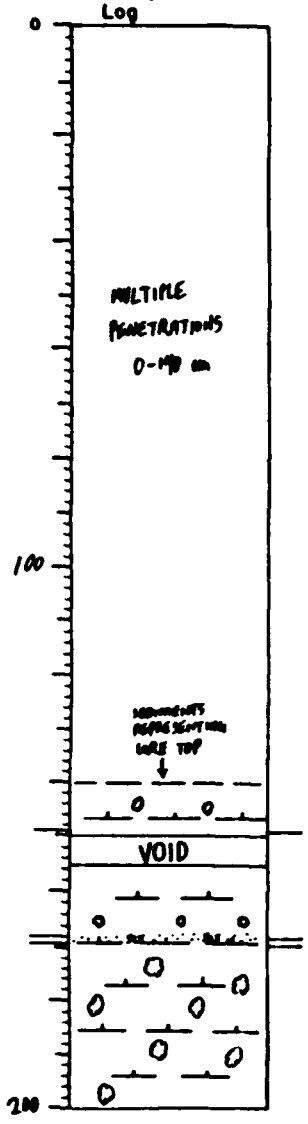
Leg No. 2 Total Core Length 115 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8 cm	calc ooze	1	2			58	8	16	Tr		15			Tr
14	highly calc clay	Tr	2			76	1	18			3			
20	" " "	Tr	1			80	2	13			4			
37	calc ooze with clay	Tr	1			18	2	74			5			Tr
60	highly calc clay	Tr	2			69	2	23		Tr	4			Tr
71	calc ooze with clay	Tr	1			65	2	22		Tr	10			Tr
85	highly calc clay	Tr	1			71	1	24			3			
105	calc ooze with clay	Tr	1			63	2	31	Tr		3			Tr

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 36 Core No 53 GGC
Total Length 455 cm. Lat. 4°55.47 N Long. 43°03.57 W Depth 4300 m corr.
Core condition EXCELLENT Date Described 12 FEB 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-148
Multiple penetrations
29-100 cm. may provide fairly good record of core top.

148-149
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation
Silty lutite with abundant forams grading to common
G.

149-168
CALC OOZE
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Faint 10 YR 5/1 gray mottling near base of unit
Smooth lutite with common forams
Dark laminations are present throughout unit but are most concentrated in the region 155-157 cm.; shrinkage void 150-155 cm.
S, I 5°.

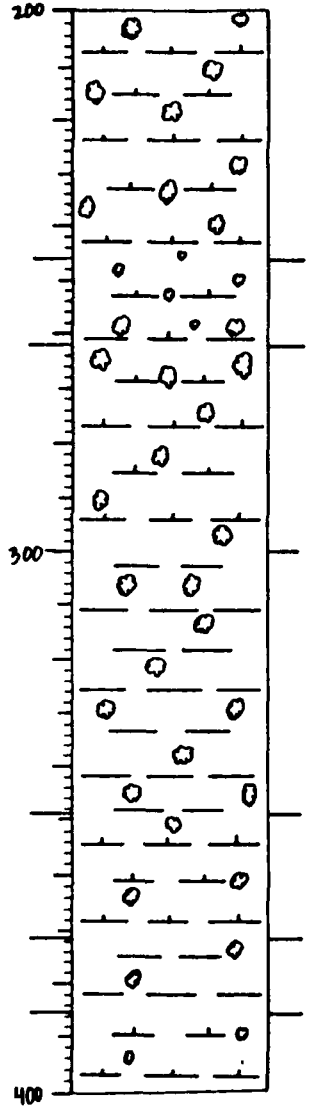
168-169
HIGHLY CALC CLAY/MICRONODULES
10 YR 4/6 dark yellowish brown
Very silty lutite
Unit is slightly lithified
S, I 5°.

169-246
CALC OOZE
10 YR 5/4 yellowish brown
Extensive 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottling throughout, many large
Slightly silty lutite with common forams
2 large 10 YR 4/1 dark gray burrows between 189-192 cm.; two regions tinged with 10 YR 5/6 yellowish brown 221-224 and 240-241 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 36 Core No 53 GGC

Lithologic Log



Detailed Description

246-262
CALC CLAY WITH DETRITUS
2.5 Y 5/2 grayish brown
Faint 2.5 Y 4/2 dark grayish brown mottles throughout; few large near unit base
Smooth moist lutite with few forams
.5 cm thick silty wedge/lamination at 251 cm. pinches out near center of core
G.

262-300
CALC OOZE
2.5 Y 6/4 light yellowish brown
Common 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottles becoming scattered below 278 cm.
Slightly silty lutite with common forams
Two horizontal laminations tinged with 10 YR 5/6 yellowish brown at 291 and 292 cm.
G.

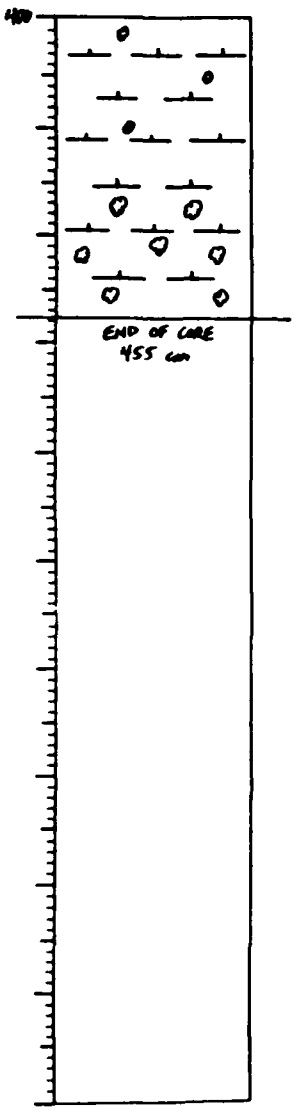
300-349
UNFOSS CLAY
10 YR 4/4 dark yellowish brown
Extensive 2.5 Y 4/2 dark grayish brown and scattered 10 YR 4/3 dark brown mottles throughout
Smooth lutite with few to no forams
Two convex upward laminations 10 YR 5/6 yellowish brown at 315 cm (color only and 317 cm. (silty particles); large mottle at 320-322 cm. contains scattered forams

349-371
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 2.5 Y 5/2, 4/2, and 3/2 grayish brown mottling
Slightly silty lutite with common forams
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 36 Core No. 53 GGC

Lithologic Log



Detailed Description

371-385
UNFOSS CLAY
10 YR 5/4 yellowish brown
Scattered 2.5 Y 6/2 light brownish gray mottles containing scattered forams above 376 cm.
Smooth lutite with few forams
Faint lamination tinged with 10 YR 5/6 yellowish brown at 380 cm.
C.

385-455
CALC OOZE
2.5 Y 6/4 light yellowish brown
Faint 10 YR 6/3 pale brown mottling above 423 cm.; extensive 2.5 Y 5/2 grayish brown mottling below 430 cm.
Silty lutite with common forams except smooth lutite with few forams from 420-433 cm. and forams becoming abundant below 445 cm.
1 cm. thick horizontal lamination tinged with 10 YR 5/6 yellowish brown containing few silty particles at 429-430 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 53 GGC

Expedition 110 Station No. 36

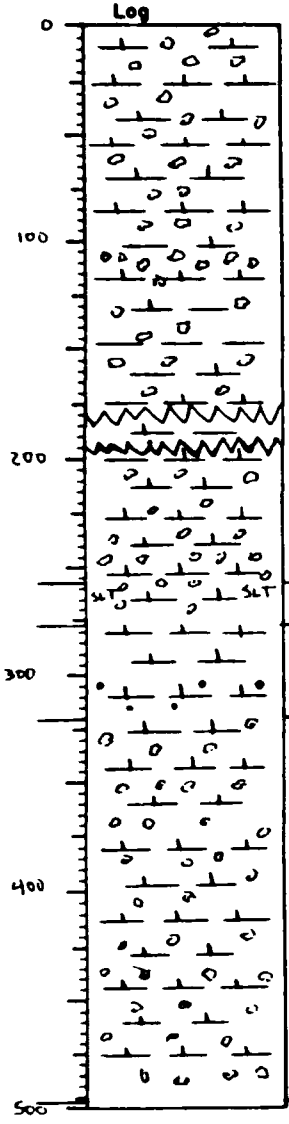
Leg No. 2 Total Core Length 455 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
142	CALC OOZE	TR	4			21	35	35			2	TR		1
160	CALC OOZE	6	8			45	3	37			1			
169	HIGHLY CALC OOZE W/MICRONODULES	7	35			30	2	25		TR	1			
220	CALC OOZE	4	4			40	1	47			4			
255	CALC CLAY W/ DETRITUS	15	4			73	TR	8			TR			
285	CALC OOZE	10	3			55	10	21			1			
330	UN FOSS CLAY	3	4			93								
365	CALC OOZE	5	2			50	15	27			1			
380	UN FOSS CLAY	6	4			89		TR			1			
410	CALC OOZE	2	1			45	12	39			1			
450	CALC OOZE	1	2			45	25	24			3			

VISUAL CORE DESCRIPTION

Ship KNORR Cruise 110 Leg 2 Sta. 37 Core No 54PC
Total Length 915 cm. Lat. 9°53.33'N Long. 42°54.92'W Depth 4458
Core condition GOOD Date Described 8/3/89 by Schneider
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-258
GRADING FROM CALC OOZE TO UNFOSS CLAY WITH DETRITUS TO CALC OOZE
Brown (10 YR 5/3)
Extensive very dark gray-brown (10 YR 3/3) mottling throughout unit, especially at 113, 148, and 238 to 248 cm.
Smooth, firm lutite
These sections of the core have extensive cracking, due to the fact the core was frozen. One cracked section, 184-197 cm., exhibits drastic color change and halite concentration, also probably due to freezing.
G.

258-278
CALC OOZE
Pale brown (10 YR 6/3)
Very, very faint very dark gray-brown mottles at 264 & 268 cm.
Silty lutite with common to abundant forams
G.

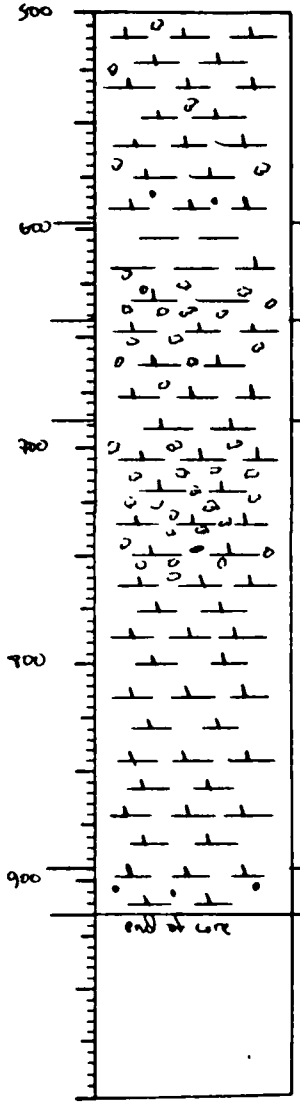
278-320
CALC OOZE
Yellowish brown (10 YR 5/6)
Unit changes gradually from yellowish brown to strong brown (7.5 YR 5/8) 278-295 cm., then returns to yellowish brown.
Smooth lutite with scattered forams
Scattered Mn micronodules 303-314 cm.
G.

320-496
CALC OOZE
Brown (10 YR 5/3)
Extensive very dark gray-brown mottling throughout unit, especially 320-376 cm., 397-413 cm., 441-468 cm.
Smooth, moist lutite with few scattered forams.
G.

VISUAL CORE DESCRIPTION

Ship KNORR Cruise 110 Leg 2 Sta. 37 Core No 54PC

Lithologic Log



Detailed Description

496-598
CALC OOZE
Brown (10 YR 5/3)
Pale brown (10 YR 6/3) laminations at 495-503 cm., 528-532 cm., 579-592 cm., and 598 cm. Very faint dark gray-brown mottles throughout unit; faint light olive brown (2.5 Y 5/4) streaks at 586, 584 cm.
Smooth, moist lutite increasing foram content to common 561-588 cm.
Few Mn micronodules at 581 cm.
G.

598-643
UNFOSS CLAY TO SLIGHTLY CALC CLAY
Yellowish brown (10 YR 5/4)
Brownish yellow (10 YR 6/6) lamination 612-614 cm., increasing dark grayish brown (10 YR 4/2) mottling to extensive from 622-643 cm.
Smooth, moist lutite with few forams
G.

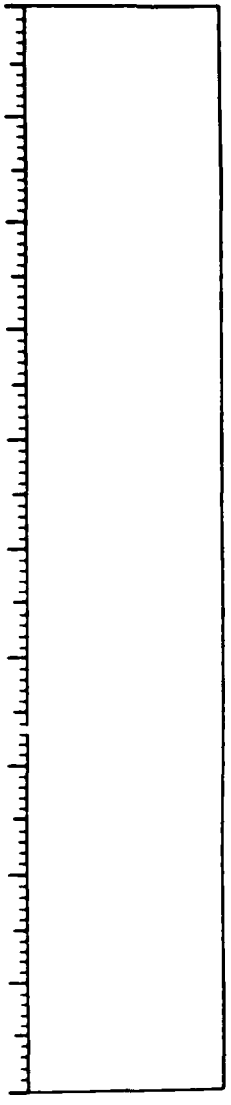
643-688
CALC OOZE
Light yellowish brown (10 YR 6/4)
Unit begins as pale brown (10 YR 6/3) with common dark grayish brown mottling, then gradually turns to light yellowish brown 661-663 cm strong brown (7.5 YR 5/6) laminations 670-675 cm.
Smooth lutite; slightly silty with scattered forams 650-657 cm.
G.

688-895
CALC OOZE
Grayish brown (10 YR 5/2)
Unit begins as brown (10 YR 5/3) with common grayish brown mottles; mottling increases 732-760 cm. until unit is grayish brown. Pale brown (10 YR 6/3) lamination 805-819 cm.; yellowish brown (10 YR 5/6) lamination 835-843 cm.
Smooth, moist lutite
S, I 10°.

VISUAL CORE DESCRIPTION

Ship KNORR Cruise 110 Leg 2 Sta. 37 Core No. 54 PC

Lithologic Log



Detailed Description

895-915
CALC OOZE
Light olive brown (2.5 Y 5/4)
Smooth lutite with scattered forams
Few Mn micronodules throughout unit

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 54 PC

Expedition 110 Station No. 37

Leg No. 2 Total Core Length 915 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Sil. flag
50	CALC OOZE	1	1			32	6	60			TR				
149	UNFOSS CLAY W/DETRITUS	15	2			83	TR	TR							
249	CALC OOZE	3	1			51	5	40							
266	CALC OOZE	1	TR			30	50	19							
285	CALC OOZE	TR	1			50	7	42							
292	CALC OOZE	2	TR			43	5	50							
304	CALC OOZE	3	1			43	3	50	TR		TR				
347	CALC OOZE	2	2			40	3	53							
377	CALC OOZE	2	1			55	2	40							
500	CALC OOZE	TR	1			40	2	57							
581	CALC OOZE	2	5			33	10	50							
586	CALC OOZE	3				20	45	32			TR				
590	CALC OOZE	1				31	8	60							
608	UNFOSS CLAY	8	5			87		TR							
613	SLIGHTLY CALC CLAY	5	5			87	TR	3	TR						
634	SLIGHTLY CALC CLAY	10	1			88		1			TR				
653	CALC OOZE	1				34	15	50							
663	CALC OOZE	1	1			40	1	57							

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 54 PC

Expedition 110 Station No. 37

Leg No. 2 Total Core Length 915 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Sil flag
672	CALC OOZE	2	1			32	TR	65							
712	CALC OOZE	1	1			36	15	47							
750	CALC OOZE	1	1			60	2	36							
810	CALC OOZE	2	1			50	2	45							
838	HIGHLY CALC CLAY	8	2			65	TR	25	TR						
900	CALC OOZE	3	TR			24	5	68	TR						

VISUAL CORE DESCRIPTION

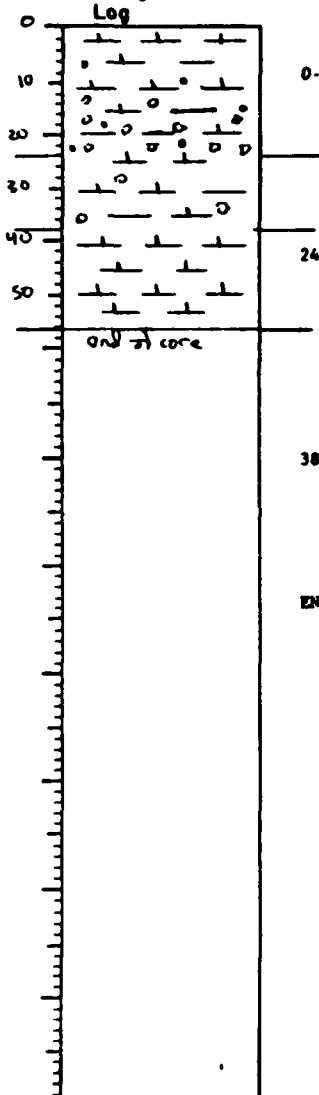
Ship Knorr Cruise 110 Leg 2 Sta. 37 Core No 54PC

Total Length 56 cm. Lat. 45°32.3'N Long. 42°49.2'W Depth 4458

Core condition good Date Described 3/15/84 by Schneider

Physiographic location LOMA RISE

Lithologic Log



Detailed Description

0-24

CALC OOZE TO HIGHLY CALC CLAY WITH MICRONODULES
Light yellowish brown (10 YR 6/4)
Increasing mottling with dark brown (10 YR 3/3) 15-24 cm. until unit becomes dark brown at 22 cm.
Very moist slightly silty lutite W / common forams
S, M.

24-38

CALC OOZE TO CALC CLAY
Yellowish brown (10 YR 5/8)
Very faint dark brown streaks throughout unit; dark yellowish brown (10 YR 4/6) lamination at 35-38 cm.
Smooth, very moist lutite with common forams; lamination has clay-type consistency
S, M.

38-56

CALC OOZE
Grayish brown (10 YR 5/2)
Faint gray (10 YR 6/1) streaks throughout unit
Smooth, very moist lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 54 PG

Expedition 110 Station No. 37

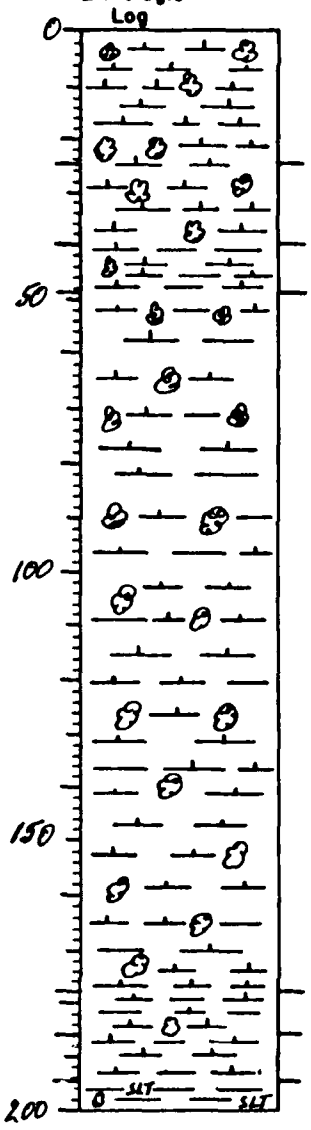
Leg No. 2 Total Core Length 56 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Sil flag
15	CALC OOZE	2	2			36	10	50							
24	HIGHLY CALC CL W/MICRONODULES	5	25			50	TR	20			TR				
30	CALC OOZE	1	5			30	4	60			TR				
37	CLAC CLAY	5	1			79	1	14			TR				
47	CALC OOZE	2	1			65	2	30	TR						

VISUAL CORE DESCRIPTION Page 1 of 3

Ship Knorr Cruise 110 Leg 2 Sta. 37 Core No 54GGC
Total Length 322 cm. Lat. 9°36.92'N Long. 41°58.95'W Depth 4356m
Core condition excellent Date Described 7/88 by Akers
Physiographic location Owen Rise

Lithologic Log



Detailed Description

0-25
CALC OOZE
10YR 5/3 brown
faint mottling throughout with 10YR 3/3 dark brown material
smooth lutite with forams common
G, horizontal

25-40
CALC OOZE
10YR 5/8 yellowish brown into 10YR 3/4 dark brown at 33 cm.
few large mottles at top with 10YR 5/3 brown material; near base smaller mottles of 10YR 5/3 brown are common
smooth lutite with forams common to few near base
S, incline 10°

40-49
HIGHLY CALC CLAY
10YR 5/8 yellowish brown with some 10YR 3/4 dark yellowish brown layers near the top
few mottles; top 2 cms. intercalated (?)
smooth lutite with scattered forams
S, horizontal

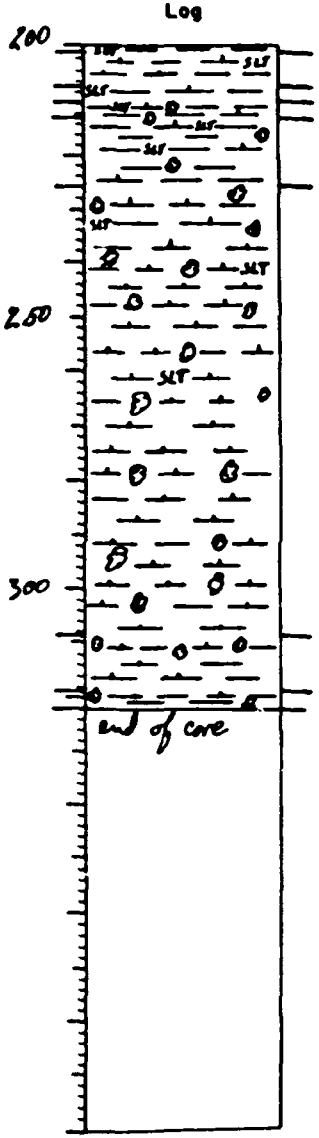
49-178
HIGHLY CALC CLAY
top 1 cm is 7.5YR 4/4 dark brown; remainder is 10YR 4/4 dark yellowish brown
extensive, large scale mottles of 2.5Y 4/2 dark grayish brown
top 1 cm. semi-lithified zone; remainder is smooth lutite with few forams
end of glacial period?
S, horizontal

178-186
CALC CLAY
2.5Y 4/4 olive brown
smooth lutite with few forams
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 37 Core No 55GGC

Lithologic Log



Detailed Description

186-195
HIGHLY CALC CLAY
2.5Y 4/4 olive brown
some small-scale mottling of dark gray material present
slightly silty lutite at very top (<0.5 cm.) to a smooth lutite with common forams
S, horizontal

195-201
UNFOSSILIFEROUS CLAY WITH DETRITUS
2.5Y 4/4 olive brown
few mottles throughout
smooth lutite
S, horizontal

201-207
CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown
smooth lutite
S, incline 10°

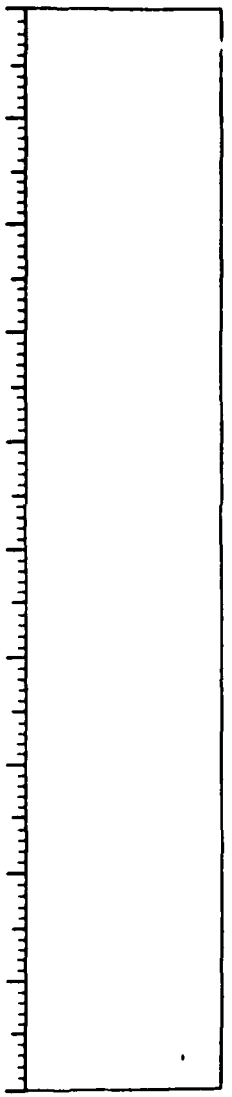
207-210
CALC CLAY WITH DETRITUS
2.5Y 4/2 dark grayish brown
silty lutite
slightly siltier at base of unit
S, incline 10°

210-213
SLIGHTLY CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown
2.5Y 4/2 dark grayish brown mottling becoming common down section
smooth lutite with few forams
G, horizontal

213-226
SLIGHTLY CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown
mottling becomes common down-section with slighter darker material
smooth lutite; forams increase from few at top to scattered down core
G, horizontal

Ship Knorr Cruise 110 Leg 2 Sta. 37 Core No 55GGC

Lithologic Log



Detailed Description

226-309
HIGHLY CALC CLAY WITH DETRITUS
5Y 5/3 olive
mottling common to extensive throughout with 2.5Y 4/4 olive brown material
smooth lutite with abundant forams from 226-248, 267-284; *few to common in remainder of section*
semi-lithified 10YR 3/4 dark yellowish brown sediment from 297-298 cm.; other, thin (<1cm.) dark yellowish brown bands at 263, 294 cm.
S, inclined 10°

309-319
CALC CLAY
2.5Y 5/4 light olive brown
mottling with 2.5Y 4/4 olive brown material scattered to 314 cm, then none
smooth lutite with common forams reducing to few at 217 cm.
G, horizontal

319-322
SLIGHTLY CALC CLAY
mainly 2.5Y 5/6 light olive brown, but gets slightly darker down core
mottling of 10YR 3/4 dark yellowish brown common throughout
smooth lutite

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 55GGC

Expedition 110 Station No. 37

Leg No. 2 Total Core Length 322 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5 cm	calc ooze	Tr	Tr			54	4	35			6			1
33	" "	1	3			59	2	30			5			
44	highly calc clay	Tr	2			73	2	20			3			
120	" " "	Tr	2			75	1	20			2			
180	calc clay	8	Tr			80	1	9			2			
190	highly calc clay	3	Tr			72	2	20			3			
199	unfossiliferous clay w/detritus	30	Tr			69		Tr			Tr			
205	calc clay w/ detritus	25	Tr			64		10			1			
208	" " "	15	1			73	Tr	10			1			
212	slightly calc clay w/detritus	18	1			75		5			1			
218	" " "	20	Tr			74	Tr	5			1			
255	highly calc clay w/detritus	15	Tr			55	1	17			3			
313	calc clay	13	Tr			70	Tr	15			2			
322	slightly calc clay	13	Tr			82		5			Tr			

VISUAL CORE DESCRIPTION

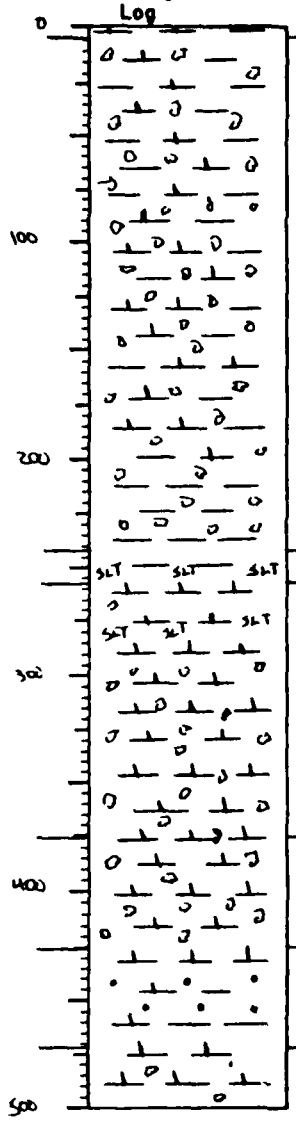
Ship KNORR Cruise 110 Leg 2 Sta. 37 Core No 56PC

Total Length 1067 cm. Lat. 4°57.70' N Long 42°46.50' W Depth 4638

Core condition GOOD Date Described 3/3/89 by Schneider

Physiographic location VEMA RISE

Lithologic Log



Detailed Description

0-4
HIGHLY CALC CLAY
Brown (10 YR 5/3)
Smooth, soupy lutite
S, I 15°

4-242
CALC CLAY TO UNFOSS CLAY
Light yellowish brown (10 YR 6/4)
Extensive grayish-brown (10 YR 5/2) mottling and laminations throughout unit; unit turns to grayish brown at 7-35 cm., 182-216 cm.; brownish yellow streaks (10 YR 6/8) at 75, 95, 105-106 cm., 125 & 238-242 cm.
Smooth, moist lutite
In this section and the following sections, there is extensive cracking due to the fact the core was frozen in storage.
S, M.

242-258
UNFOSS CLAY / DETRITUS
Grayish brown (10 YR 5/2)
Smooth, moist lutite; very fine silty layer 257-258 cm.
Silty layer = turbidite
G.

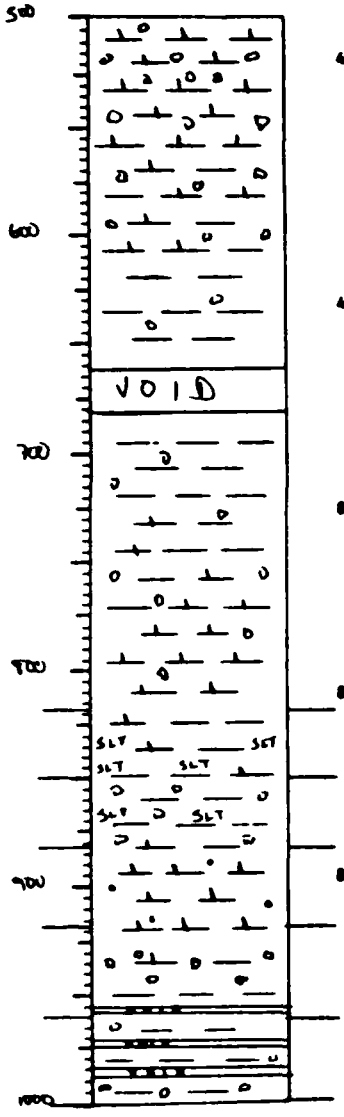
258-376
CALC OOZE
Pale brown (10 YR 6/3)
Extensive gray (10 YR 5/1) mottling at 258-261 cm., 277 cm., & 288-290 cm.; brownish yellow streaks at 303 & 373-376 cm.
Smooth, moist lutite with few forams; very fine silt at 277 cm.
Scattered Mn micronodules 322-350 cm.
S, M.

376-425
CALC OOZE
Grayish brown (10 YR 5/2)
Extensive brown (10 YR 5/3) mottling throughout unit
Smooth, firm lutite
G.

VISUAL CORE DESCRIPTION

Ship VANDER Cruise 110 Leg 2 Sta. 38 Core No. 56PC

Lithologic Log



Detailed Description

425-472
CALC OOZE TO SLIGHTLY CALC CLAY TO CALC OOZE
Yellowish brown (10 YR 5/6)
Unit begins as pale brown (10 YR 6/3) then changes gradually through yellowish brown to brown (10 YR 5/3) then back to yellowish brown 445-462 cm.
Gray mottling at 453-455 cm.
Silty lutite with abundant forams 425-447 cm.; rest of unit is smooth, firm lutite
Scattered Mn micronodules 444-449 cm.
S, M.

472-818
CALC OOZE TO UNFOSS CLAY / DETRITUS TO CALC OOZE
Grayish brown (10 YR 5/2)
Faint very dark gray (10 YR 3/1) mottling throughout unit - extensive at 520-551 cm.
Smooth, firm lutite
Void in core 667-681 cm. - whatever sediment exists is too disturbed to study
S, M.

818-850
SLIGHTLY CALC CLAY / DETRITUS
Dark gray (10 YR 4/1)
Unit turns to half grayish brown (vertical boundary) at 842 cm.
Smooth, moist lutite 818-825 cm.; the rest of the unit is a very fine silt
C.

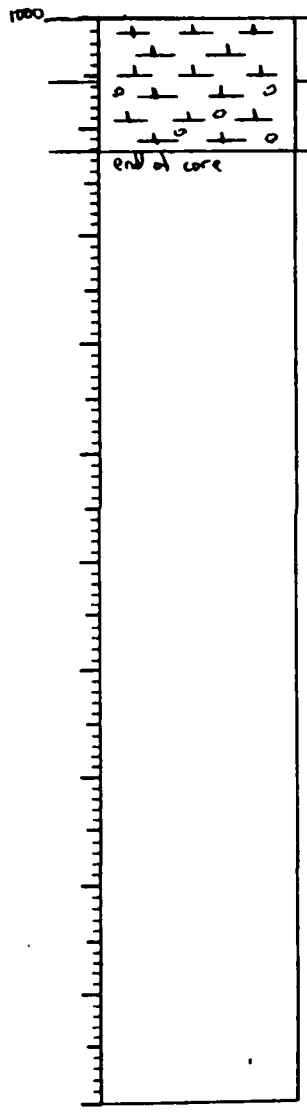
850-882
UNFOSS CLAY
Grayish brown (10 YR 5/2)
Common dark gray mottling, especially 858-860 cm. and 862-868 cm.
Smooth, moist lutite, with very fine silty lutite at 841-868 cm.
C.

882-919
CALC OOZE
Pale brown (10 YR 6/3)
Clear gray (2.5 Y N5/)streak at 904 cm.
Smooth lutite with scattered forams
Few Mn micronodules at 897 & 910 cm.
C.

VISUAL CORE DESCRIPTION

Ship VANDER Cruise 110 Leg 2 Sta. 38 Core No. 56PC

Lithologic Log



Detailed Description

919-965
CALC OOZE TO UNFOSS CLAY W/ DETRITUS
Brown (10 YR 5/3)
Brownish yellow (10 YR 6/8) streaks 929-933 cm., P938-940 cm.; gray (10 YR 5/1) mottles 935, 936, 942-944 cm.; increasing grayish brown (10 YR 5/2) mottling 955-965 cm.
Smooth, firm lutite
Sediment very disturbed 939-942 cm.; void in core 956-957 cm.
C.

965-1000
UNFOSS CLAY / DETRITUS
Grayish brown (10 YR 5/2)
Very faint gray mottling 968, 977, 988 cm.; increasing pale brown mottling 992-1000 cm.
Smooth, firm lutite
Voids in core 974-975 & 985-987 cm.
C.

1000-1027
CALC OOZE
Pale brown (10 YR 6/3)
Common brownish yellow (10 YR 6/6) stains across 1018-1026 cm., gray (2.5 Y N5/) streak at 1007 cm.
Lutite with common forams 1000-1013 cm.; few forams 1013-1027
C.

1027-1067
CALC OOZE
Grayish brown (10 YR 5/2)
Scattered pale brown (10 YR 6/3) mottling 1027-1041 cm.; gray streak at 1038 cm., brownish yellow streak at 1037 cm.
Smooth lutite with few forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 56 PC

Expedition 110 Station No. 38

Leg No. 2 Total Core Length 1067 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
2	HIGHLY CALC CLAY	5	2			65	3	25			TR				
12	SLIGHTLY CALC CLAY/DETRITUS	15	2			80	1	2			TR				
105	CALC CLAY	2	1			86	1	10							
205	UNFOSS CLAY	8	2			90	TR								
240	UNFOSS CLAY	10	2			88		TR							
251	UNFOSS CLAY W/ DETRITUS	20	5			75		TR							
257	DETRITAL CLAY	90	TR			10	TR	TR							
300	CALC OOZE	2	TR			44	TR	54			TR				
434	CALC OOZE	1				39	30	30			TR				
454	SLIGHTLY CALC CLAY	3	5			88		4							
466	CALC OOZE	2	1			35	2	60							
500	CALC OOZE	1	1			27	1	70							
638	DETRITAL CLAY	75	3			22					TR				
800	CALC OOZE	5	1			32	2	60			TR				
835	SLIGHTLY CALC CLAY/DETRITUS	90	3			4	1	2				TR			
854	UNFOSS CLAY	7	3			90	TR		TR						
893	CALC OOZE	2				30	10	58							
925	CALC OOZE	5	3			62	TR	30							

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 56 PC

Expedition 110 Station No. 38

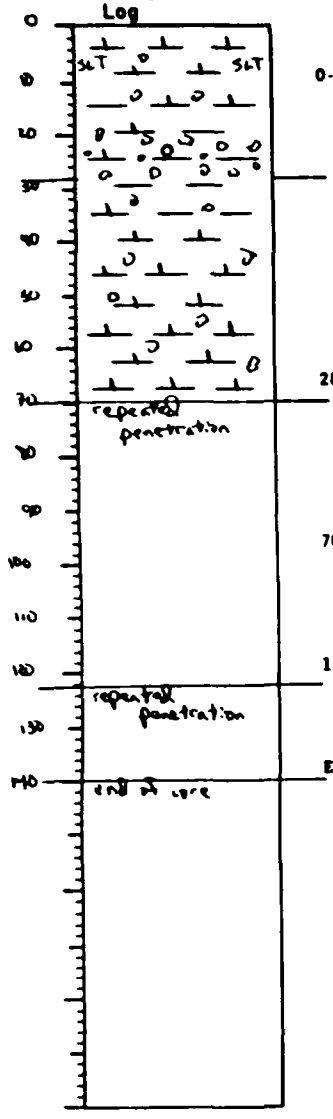
Leg No. 2 Total Core Length 1067 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
939	UNFOSS CLAY WITH DETRITUS	25	5			70		TR			TR				
971	UNFOSS CLAY WITH DETRITUS	31	5			64									
1006	CALC OOZE	2				28	10	60	TR		TR				
1009	CALC OOZE	2	TR			36	12	50							
1050	CALC OOZE	5	1			39	5	50							

VISUAL CORE DESCRIPTION

Ship KNOR Cruise 110 Leg 2 Sta. 38 Core No 56PC
Total Length 140 cm. Lat. 4°39.70N Long. 42°46.50W Depth 4634 m
Core condition GOOD Date Described 8/3/89 by Schneider
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-28
CALC OOZE TO UNFOSS CLAY WITH DETRITUS & MICRONODULES
Yellowish brown (10 YR 5/4)
Increasing very dark grayish brown (10 YR 3/2) 13-23 cm. from faint to dominating; 23-28 cm. is yellowish brown with faint gray (10 YR 5/1) mottling
Silty lutite with abundant forams 0-10 cm., decreasing silt & foram content 10-26 cm., clay type consistency 26-28 cm.
Clay cobble @ 23 cm.; smaller clay pieces 26-28 cm.
S, H.

28-70
SLIGHTLY CALC CLAY/DETRITUS TO CALC OOZE
Grayish brown (2.5 Y 5/2)
Common light olive brown (2.5 Y 5/4) throughout unit; gray lamination 28-30 cm.
Smooth, moist lutite with few forams
S, H.

70-123
This unit repeats, in exact sequence, the previous two units; probably due to repeated penetration or disturbance during coring.
S, H.

123-140
This unit again repeats the two-unit sequence, although it is somewhat squashed this time.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

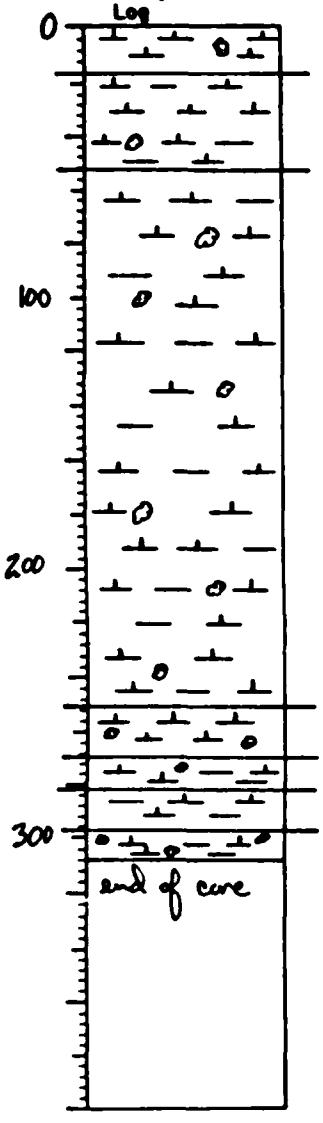
Ship: KNR Core No. 56 PC
Expedition 110 Station No. 38
Leg No. 2 Total Core Length 140 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE	2	1			19	38	40			TR			
22	UNFOSS CLAY W/DETRITUS & MICRONODULES	30	30			40		TR						
27	UNFOSS CLAY W/DETRITUS & MICRONODULES	25	15			60		TR						
29	SLIGHTLY CALC CLAY/DETRITUS	75	2			21	TR	2						
52	CALC OOZE	5	5			27	3	60			TR			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 40 Core No 5BGGC
Total Length 308 cm. Lat. 8°48.55'N Long. 43° 2.33'W Depth 4391 m
Core condition Excellent Date Described 1/9/89 by Davis
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-16
CALC OOZE
10YR 6/4 light yellowish brown
faint mottling if any
lutite with abundant forams
G

16-53
HIGHLY CALC CLAY
7.5YR 5/6 strong brown
scattered mottling
smooth lutite with common forams
10YR 3/3 dark brown intercalated areas from 22 to 25 cm, 29-34 cm., 38-43 cm., and 50-54 cm.
G

53-251
HIGHLY CALC CLAY
10YR 2/4 very pale brown, 10YR 6/3 pale brown, 10YR 6/4 light yellowish brown
common mottling of 10YR 5/3 brown material throughout section
smooth lutite with forams ranging from scattered to abundant throughout
lacks intercalated areas. At 70 cm 7.5YR 5/8 strong brown 0.5cm thick, semi-intercalated layer; other similarly colored layers at: 128-130, 140, 198, 209, 223 cm.
G

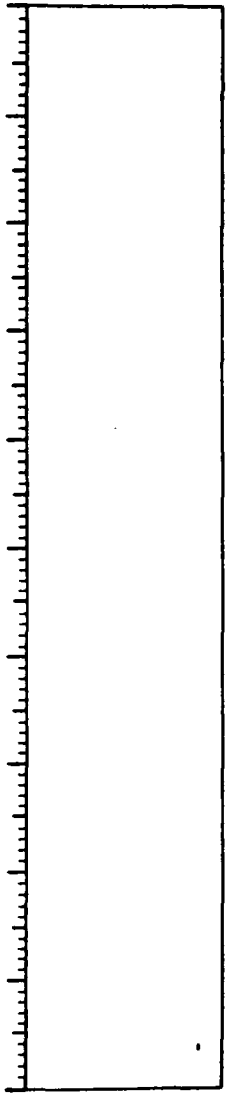
251-270
CALC OOZE
10YR 6/4 light yellowish brown
common mottling of 10YR 5/3 brown material throughout interval
smooth lutite with abundant forams
G

270-282
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
faint mottling if any
lutite with forams increasing downcore from common to extensive
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 40 Core No 5BGGC

Lithologic Log



Detailed Description

282-298
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
smooth lutite with common forams
one 10YR 4/2 dark grayish brown intercalated area from 286-287 cm.; one less densely intercalated area from 282-283 cm.
G

298-308
HIGHLY CALC CLAY
10YR 5/3 brown
extensively mottled with darker material throughout interval
smooth lutite with scattered forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 58GGC

Expedition 110 Station No. 40

Leg No. 2 Total Core Length 308 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13 cm	calc ooze	Tr	2			61	12	10			15			Tr
34	highly calc clay	1	6			73	2	13			5			Tr
95	" " "	1	1			77	2	15			4			
146	" " "	2	1			69	2	14			12			
220	" " "	2	1			72	2	8			15			
262	calc ooze	Tr	1			56	12	11			20			
276	highly calc clay	Tr	1			73	6	9			12			
291	" " "	1	1			77	1	10			10			
301	" " "	Tr	1			77	2	8			12			

VISUAL CORE DESCRIPTION

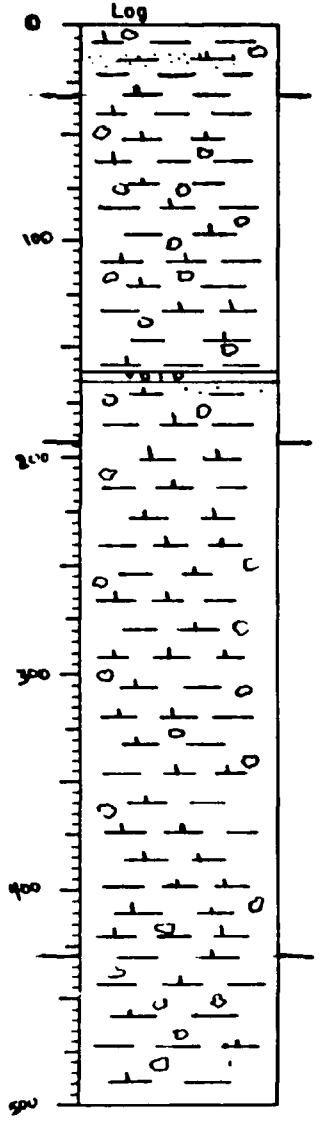
Ship Knorr Cruise 110 Leg 2 Sta. 39 Core No 59 PC

Total Length 107.5 cm. Lat. 4°53.5'N Long 92°59.9'W Depth 4545 m.

Core condition Excellent Date Described 4/25/89 by Davis

Physiographic location Cocos Ridge

Lithologic Log



Detailed Description

0-31

SLIGHTLY CALC CLAY WITH DETRITUS
Grayish brown (10 YR 5/2)
Scattered mottling in uppermost 10 cm., then faint throughout
Smooth lutite with common forams
Core overpenetrated? Thin silt layers from 15-17 cm.; top 2 cm. of interval is (10 YR 5/4) yellowish brown
C.

31-194

CALC CLAY
Brown (10 YR 5/3)
Commonly mottled throughout
Smooth lutite with common forams
163-166 cm. missing; Mn micronodules present; dark yellowish brown (10 YR 4/6) layer at 110 cm.
C.

194-430

HIGHLY CALC CLAY
Many color variations throughout; mainly (10 YR 5/3) brown into light yellowish brown (10 YR 5/4) near 345 cm. to base of unit.
Scattered to commonly mottled throughout
Smooth lutite with common forams
Several dark yellowish brown (10 YR 4/6) areas in interval such as 216, 304, 306, and 399-404, 413-415; from 387-430 "stained" brownish yellow (10 YR 6/8).
C.

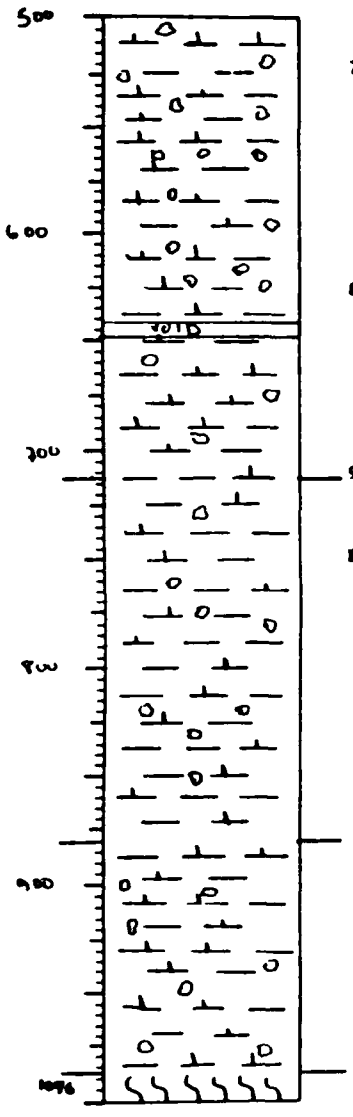
430-718

HIGHLY CALC CLAY
Dark grayish brown (10 YR 4/2) into brown (10 YR 4/3)
Commonly to extensively mottled
Smooth lutite with common forams
Void from 649-652 cm.
C.

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 39 Core No. 59PC

Lithologic Log



Detailed Description

718-880
SLIGHTLY CALC CLAY
Variable color in unit; mainly pale brown (10 YR 6/3)
Mottling ranges from scattered to common
Smooth lutite with forams ranging from scattered to common from 765-792 cm.
Many dark yellowish brown "stained" areas in interval; 718-731, 800-809, 858-873 cm.
C.

880-989
CALC CLAY
Grayish brown (10 YR 5/2)
Commonly mottled
Smooth lutite with common forams
10 YR 4/6 dark yellowish brown intervals at 952-953, and 983-989 cm.
C.

989-1076
Remainder of core is Flow-In.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 59 PC

Expedition 110 Station No. 39

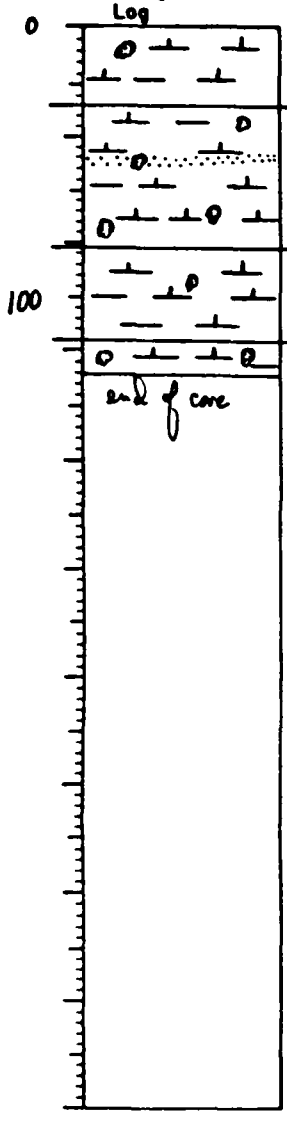
Leg No. 2 Total Core Length 1076 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
23	SLIGHTLY CALC CL W/DETRITUS	15	3			78	2	2						
80	CALC OOZE	5	1			44		50			TR			
160	SLIGHTLY CALC CLAY	10	1			86	TR	3						
205	CALC OOZE	7	1			60	3	29			TR			
290	HIGHLY CALC CLAY	10	TR			67	1	22			TR			
380	HIGHLY CALC CLAY	10				62	8	20						
460	HIGHLY CALC CLAY	7	3			68		22						
540	SLIGHTLY CALC CLAY	15	2			78		5			TR			
630	CALC OOZE	5	1			40	2	52						
720	UNFOSS CLAY/ DETRITUS	31	1			68		TR						
805	SLIGHTLY CALC CLAY	5	1			84		10						
890	CALC OOZE	2	1			40	3	54						
960	UNFOSS CLAY/ DETRITUS	15	3			82		TR			TR			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 39 Core No 59PG
Total Length 129 cm. Lat. 9°53'N Long. 42°58'W Depth 4545m
Core condition excellent Date Described 5/16/82 by DAVIS
Physiographic location Cape Rise

Lithologic Log



Detailed Description

0-28
HIGHLY CALC CLAY
10YR 5/4 yellowish brown into 10YR 4/4 dark yellowish brown at 10 cm.
Scattered mottling; fairly to heavily intercalated from 9-21 cm.
Smooth lutite with common forams.
Multiple penetration of trigger core.
10YR 4/6 dark yellowish brown indurated debris at 24 cm.
C

28-82
HIGHLY CALC CLAY
10YR 5/3 brown
Commonly mottled
Smooth lutite with common forams
Some 10YR 4/6 dark yellowish brown material near top of interval.
Fine sand 10YR 7/4 very pale brown in color from 52-55 cm.: forams?
C

82-116
HIGHLY CALC CLAY
10YR 5.4 yellowish brown into 10YR 4/4 dark yellowish brown
Scattered mottling with fairly to heavily intercalated area
Smooth lutite with common forams
Unit same as 0-28 cm. ; 10YR 4/6 dark yellowish brown indurated debris at 106-107, and 110 cm.
C

116-129
HIGHLY CALC CLAY
10YR 5/3 brown
Commonly mottled
Smooth lutite with common forams
Unit same as 28-82 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

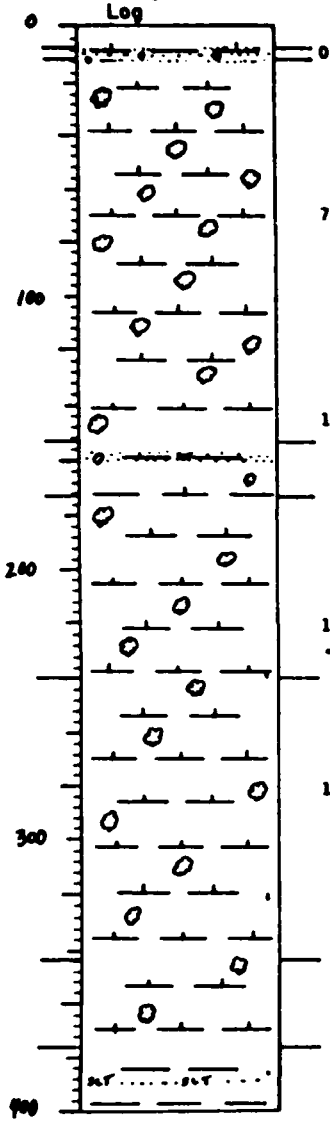
Ship: Knorr Core No. 59PG
Expedition 110 Station No. 39
Leg No. 2 Total Core Length 129 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	highly calc clay	Tr	2			79	2	13			4			
60	" " "	Tr	1			83	2	11			3			Tr

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 40 Core No. 60 PC
Total Length 1070 cm. Lat. 9°47.00 N Long. 43°01.00 W Depth 4300 m corr.
Core condition GOOD Date Described 22 MAY 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-7
CALC OOZE
10 YR 5/4 yellowish brown
Slightly silty lutite with scattered forams
Large 10 YR 3/2 very dark grayish brown lamination 3-6 cm.
S.

7-11
HIGHLY CALC CLAY WITH MICRONODULES
10 YR 5/6 yellowish brown
Large 2.5 Y 5/2 grayish brown mottled area at 9 cm.
Slightly silty lutite with few forams
Silty semi-lithified laminations at 7,9, and 10 cm.
S.

11-153
CALC OOZE
10 YR 6/3 pale brown
Extensive mottling throughout; 10 YR 5/3 brown and 2.5 Y 5/2 grayish brown being predominant
Slightly silty lutite with scattered forams
Several horizontal regions tinged with 10 YR 5/6 yellowish brown most notably 41, 95, 107 cm.
G.

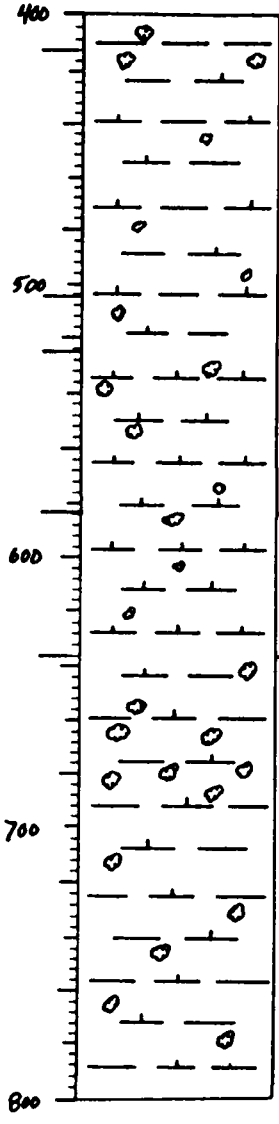
153-173
SLIGHTLY CALC CLAY/DETRITUS
10 YR 4/1 dark gray
Faint 2.5 Y 4/2 mottling
Slightly silty lutite with few forams
Region from 158-160 cm. is very silty
G, mottled.

173-240
CALC OOZE
10 YR 6/2 light brownish gray
Common to extensive 2.5 Y 5/2 and 10 YR 5/2 grayish brown mottling throughout
Slightly silty lutite with common forams
Horizontal region at 218 cm tinged with 10 YR 5/6 yellowish brown; 219-226 cm. disturbed
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 40 Core No 60 PC

Lithologic Log



Detailed Description

240-343
CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 5/2 grayish brown mottling
Smooth lutite with few forams
Region from 240-270 cm. is disturbed and fragmented as a result of having been frozen
G.

343-376
CALC OOZE
10 YR 6/2 light brownish gray
Scattered 10 YR 4/3 dark brown and 10 YR 5/1 gray mottles
Slightly silty lutite with common forams
G.

376-412
UNFOSS CLAY/DETRITUS
10 YR 5/2 grayish brown but 2.5 Y 5/2 grayish brown from 389-406 cm.
2.5 Y 5/2 mottles common below 406 cm.
Smooth moist lutite with few forams
Silty 10 YR 4/6 yellowish brown lamination at 389 cm.
G, mottled.

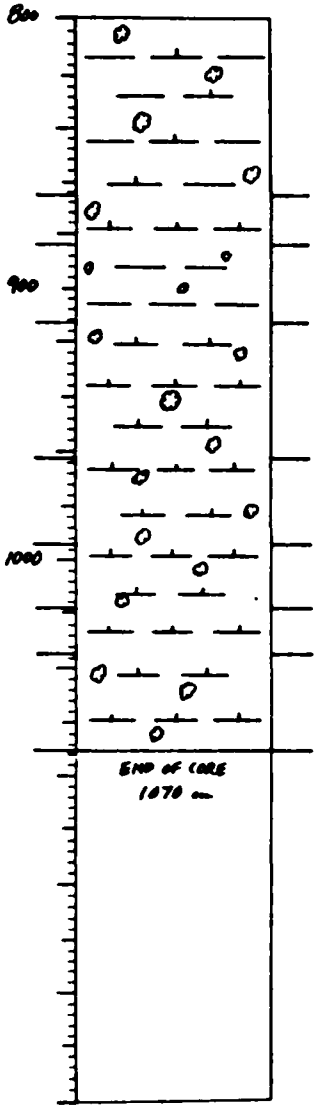
412-505
HIGHLY CALC CLAY
10 YR 6/2 light brownish gray grading to 10 YR 6/3 pale brown
Common 2.5 Y 5/2 grayish brown mottles above 420 cm.; faint 10 YR 5/2 mottling elsewhere
Slightly silty lutite with common forams but scattered 493-505 cm.
G.

505-525
SLIGHTLY CALC CLAY WITH DETRITUS
10 YR 5/3 brown
Few 2.5 Y 5/2 grayish brown mottles
Slick lutite with very few forams
520-525 cm. tinged with 10 YR 5/6 yellowish brown.
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 40 Core No. 60 PC

Lithologic Log



Detailed Description

525-583
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown
2.5 Y 5/2 grayish brown mottling grades from common to faint
Smooth lutite with forams increasing from scattered to abundant as color changes
Few 7.5 YR 5/6 strong brown mottles below 580 cm.
G.

583-636
CALC OOZE
7.5 YR 6/6 reddish yellow but mixing with 10 YR 5/2 grayish brown below 625 cm.
Few 10 YR 6/3 mottles near top of unit, scattered 10 YR 4/2 dark grayish brown mottles below 630 cm.
G.

636-865
CALC CLAY WITH DETRITUS
10 YR 5/3 brown with slight color variations toward gray and yellow
Common 2.5 Y 5/2 and 2.5 Y 4/2 grayish brown mottling except extensive from 653-695 cm. where foram content is down
Slightly silty lutite with scattered forams except common from 760-785 cm.
G., mottled

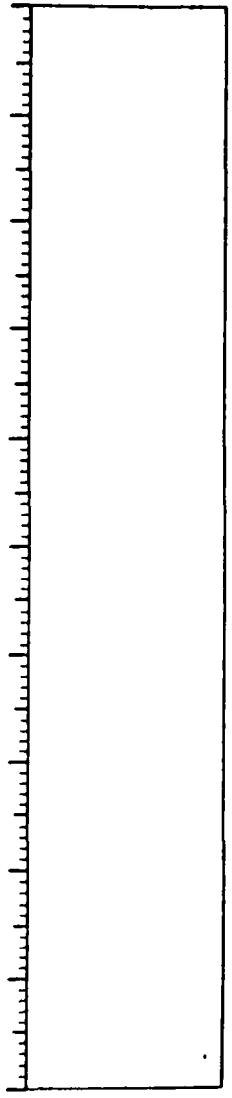
865-884
CALC OOZE
10 YR 6/2 light brownish gray
Scattered 10 YR 5/3 mottles
Slightly silty lutite with common forams
G.

884-913
UNFOSS CLAY/DETRITUS
10 YR 5/3 brown
Faint 10 YR 4/2 dark grayish brown mottles
Smooth lutite with few forams
Unit tinged with 10 YR 5/6 from 188-198 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 40 Core No 60 PC

Lithologic Log



Detailed Description

913-962
CALC OOZE
10 YR 6/2 light brownish gray
Scattered 10 YR 5/2 grayish brown mottles
Silty lutite with abundant forams
Large black mottle at 944 cm.
G.

962-994
CALC OOZE
10 YR 5/3 brown
Common 10 YR 6/2 mottles above 969 cm.; common 10 YR 4/2 dark gray and 2.5 Y 5/2 grayish brown mottles below 977 cm.
Slightly silty lutite with scattered forams within mottles
G, mottled.

994-1018
CALC OOZE
10 YR 6/2 light brownish gray grading to 10 YR 7/2 light gray grading to 10 YR 6/3 pale brown
Scattered mottling with intercalation
Slightly silty lutite with common to abundant forams
G, mottled.

1018-1034
CALC OOZE
10 YR 6/3 pale brown
Slightly silty lutite with scattered forams
Unit is tinged with 10 YR 6/6 brownish yellow; two 10 YR 5/6 yellowish brown laminations at 1019 cm.
G.

1034-1070
CALC OOZE
10 YR 5/2 grayish brown
Common 10 YR 5/2 and 10 YR 4/2 grayish brown mottles
Slightly silty lutite with common forams.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 60 PC

Expedition 110 Station No. 40

Leg No. 2 Total Core Length 1070 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
4	CALC OOZE	2	8			50	3	36	TR		1				
9	HIGHLY CALC CL W/MICRONODULES	8	20			49	2	20			1				
90	CALC OOZE	1	2			56	4	35		TR	2				
164	SLIGHTLY CALC CL/DETRITUS	30	1			68	TR	1							
210	CALC OOZE	1	3			45	5	45	TR		1				
285	UNFOSS CLAY W/DETRITUS	20	4			76		TR							
355	CALC OOZE	1	2			50	8	38			1				
396	UNFOSS CLAY W/DETRITUS	40	3			57		TR							
460	HIGHLY CALC CL	2	1			72	5	20	TR	TR	TR				
515	SLIGHTLY CALC CL W/DETRITUS	20	3			72	TR	5			TR				
555	CALC OOZE	3	3			53	15	20	4		2				
607	CALC OOZE	4	5			50	3	37			1				
685	CALC CLAY W/ DETRITUS	15	4			72	TR	7			2				
790	HIGHLY CALC CL W/DETRITUS	15	4			55	2	23	TR	TR	1				
875	CALC OOZE	3	3			62	10	18	2		2				
900	UNFOSS CLAY /DETRITUS	35	2			63		TR							
940	CALC OOZE	1	1			35	18	42	2	TR	1				
980	CALC OOZE	4	3			40	3	50			TR				

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 60 PC

Expedition 110 Station No. 40

Leg No. 2 Total Core Length 1070 cm

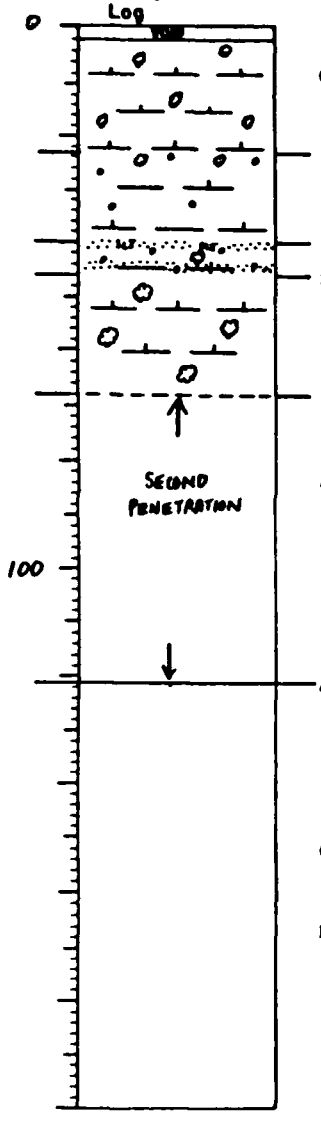
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
1005	CALC OOZE	TR	1			40	20	36	1	TR	2				
1026	CALC OOZE	2	4			55	2	35			2				
1067	CALC OOZE	1	4			44	8	40	1	TR	2				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 40 Core No 60 PG
Total Length 121 cm. Lat. 4°97.00'N Long. 45°01.98'W Depth 4300 m corr.
Core condition Good Date Described 21 MAR. 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams becoming common below 15 cm.
Shrinkage void 0-2 cm.
C.

23-40
HIGHLY CALC CLAY WITH DETRITUS AND MICRONODULES
10 YR 5/4 yellowish brown
Few 10 YR 6/3 pale brown mottles above 26 cm.
Slightly silty lutite with scattered forams
Unit contains many 10 YR 3/2 very dark grayish brown laminations; unit is more uniform color below 35 cm.
S.

40-46
HIGHLY CALC CLAY/MICRONODULES WITH DETRITUS
10 YR 5/4 yellowish brown
Few 10 YR 3/2 mottles at 42 cm.
Slightly silty lutite with scattered forams
Unit contains four 10 YR 5/6 yellowish brown silty/semi-lithified laminations at 40, 41, 43 and 45 cm.
S.

46-68
CALC OOZE
10 YR 5/2 grayish brown
Common 2.5 Y 5/2 grayish brown mottles
Slightly silty lutite with scattered forams
Unit is tinged with 2.5 Y 5/6 light olive brown at 58, 63-64 cm.

68-121
Second penetration

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

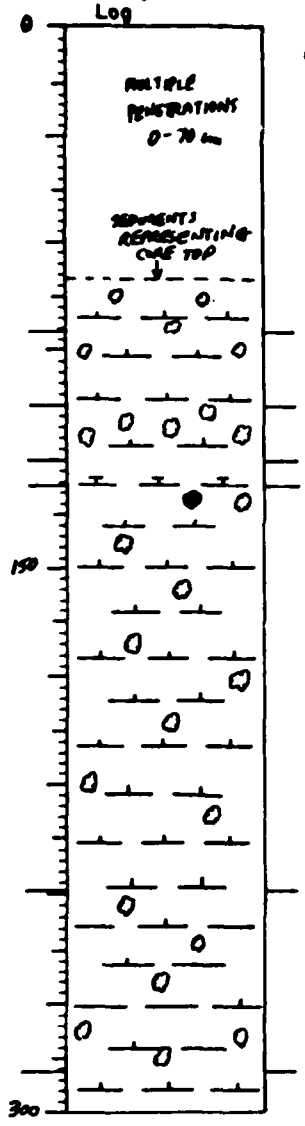
Ship: KNR Core No. 110
Expedition 110 Station No. 40
Leg No. 2 Total Core Length 121 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	3			45	25	24	1	TR	1	1		
18	CALC OOZE	2	4			55	12	25	TR	TR		TR		
30	HIGHLY CALC CL W/DETRITUS AND MICRO-NODULES	15	15			52	2	15	TR		1			
42	HIGHLY CALC CLAY/MICRO-NODULES WITH DETRITUS	15	30			34	1	20			TR			
60	CALC OOZE	10	6			40	3	41			TR			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 61 GGC
Total Length 418 cm. Lat. 8° 44.92 N Long. 43° 04.30 W Depth 4041 m corr.
Core condition EXCELLENT Date Described 27 FEB 1980 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-70
Multiple penetrations

70-85
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation of major colors
Silty lutite with abundant forams grading to common
Top of unit has concave upward contact with overlying sediments
S.

85-105
CALC OOZE
10 YR 5/4 yellowish brown with many 10 YR 3/3 dark brown laminations
Faint 10 YR 6/3 pale brown mottling above 93 cm.
Slightly silty lutite with common forams
Dark laminations concentrated in regions 90, 94, 103-104 cm.; four very fine laminations at 97 cm.
S.

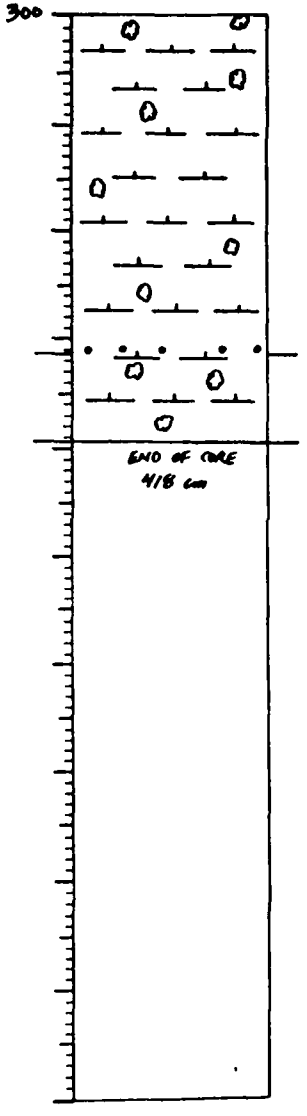
105-120
CALC OOZE
10 YR 5/4 yellowish brown
Common 2.5 Y 5/2 grayish brown mottles throughout
Slightly silty lutite with common forams
Few mottles near base of unit contain abundant forams; .5 cm thick 10 YR 5/6 yellowish brown lamination at base of unit
S.

120-127
FORAM SAND
10 YR 7/3 very pale brown
Few 10 YR 5/3 brown mottles
well washed foram sand
S, extends to 130 cm. on one side

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 61 GGC

Lithologic Log



Detailed Description

127-239
CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottles throughout; scattered 10 YR 4/2 dark grayish brown mottles 175-210 cm.
Slightly silty lutite with common forams
Few 10 YR 5/6 laminations most notably at 138, 163, 195 cm.; large mottle filled with foram sand at 128 cm.; shrinkage void 150-153 cm.
G.

239-281
CALC CLAY
10 YR 5/4 yellowish brown
Common 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottles
Smooth compact lutite with few forams
Two horizontal but irregular mottles/burrows at 262-263 cm.; large burrow 276-277 cm.
G, mottled.

281-394
CALC OOZE
10 YR 6/2 grading to 2.5 Y 6/2 light brownish gray becoming 10 YR 6/3 pale brown
Common to scattered mottling with intercalation of major colors
Slightly silty lutite with common forams except scattered from 316-328 and 383-394 cm
Two horizontal regions tinged with 10 YR 5/6 yellowish brown at 325-328 cm.; two 2.5 Y N4/dark gray laminations at 252-272 cm.; 392-394 cm. tinged with 10 YR 5/6 and contains visible micronodules
S.

394-418
CALC OOZE
10 YR 5/2 grayish brown
common 2.5 Y 5/2 grayish brown mottles becoming scattered below 405 cm.
slightly silty lutite with common forams becoming abundant below 405 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 61 GGC

Expedition 110 Station No. 41

Leg No. 2 Total Core Length 418 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
77	CALC OOZE	1	3			25	20	51						
95	CALC OOZE	2	6			42	5	45						
112	CALC OOZE	4	3			44	4	45		TR				
124	FORAM SAND					3	90	7						
180	CALC OOZE	1	3			48	8	40						
260	CALC CLAY	8	4			78	TR	10						
310	CALC OOZE	5	1			45	15	34						
405	CALC OOZE	3	2			50	10	35						
417	CALC OOZE	1	2			45	15	37						

VISUAL CORE DESCRIPTION

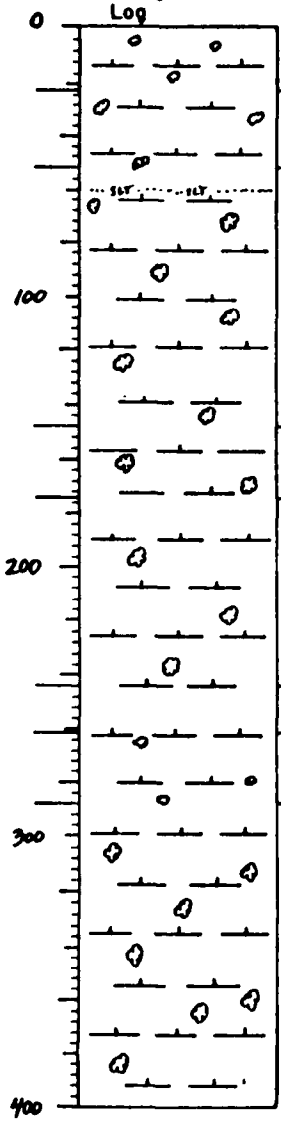
Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 62 PC

Total Length 793 cm. Lat. 4°45.12' N Long 43°03.00' W Depth 4046 m corr.

Core condition GOOD Date Described 20 MAR, 1980 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-22
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common below 14 cm.
G.

22-52
CALC OOZE
10 YR 5/4 yellowish brown with abundant 10 YR 3/2 very dark grayish brown laminations
Scattered 10 YR 6/3 pale brown mottles above 40 cm.; few 10 YR 6/2 light brownish gray mottles below 48 cm.
Slightly silty lutite with common forams
G.

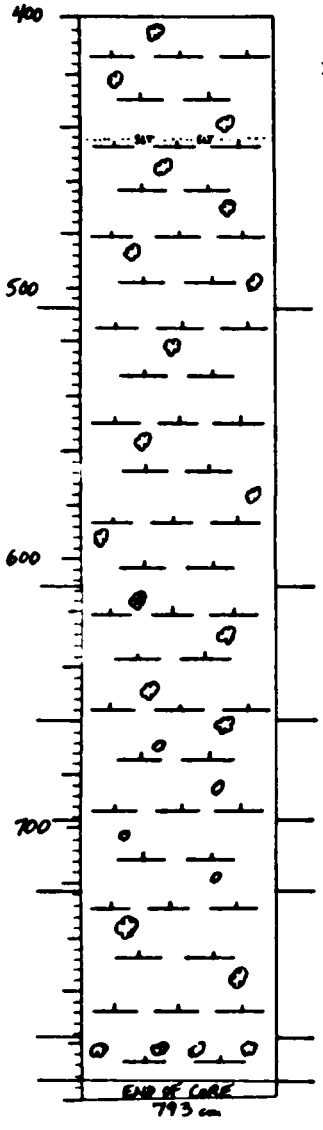
52-148
CALC OOZE
10 YR 6/3 pale brown grading to 10 YR 5/3 brown below 80 cm.
Common 2.5 Y 5/2 grayish brown mottles throughout; scattered 10 YR 7/2 light gray mottles from 75-81 cm.
Slightly silty lutite with common forams
Few 10 YR 6/6 brownish yellow laminations from 74-81 cm.; 10 YR 4/6 dark yellowish brown silty lamination at 60 cm.
G.

148-174
CALC CLAY WITH DETRITUS
10 YR 5/4 yellowish brown
Common 2.5 Y 5/2 grayish brown mottles throughout
Smooth lutite with few forams
10 YR 5/6 yellowish brown lamination 153-154 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 62 PC

Lithologic Log



Detailed Description

174-244
CALC OOZE
10 YR 6/2 light brownish gray except 10 YR 6/4 light yellowish brown from 192-222 cm.
Scattered 10 YR 5/2 grayish brown mottles throughout
Slightly silty lutite with common forams
10 YR 5/6 yellowish brown lamination at 200 cm.; bottom 3 cm. of unit is tinged with yellowish brown
S.

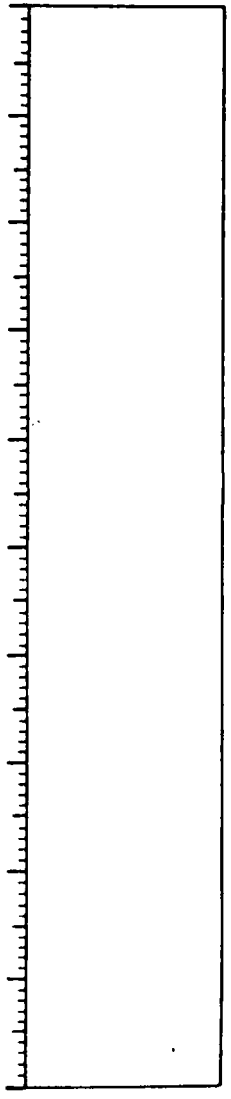
244-261
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown
10 YR 5/2 grayish brown concave upward laminations at 243, 248, 252 cm.
Silty lutite with common forams becoming abundant below 252 cm.
G.

261-288
CALC OOZE
7.5 YR 6/6 reddish yellow grading to 10 YR 5/4 yellowish brown
Few 10 YR 6/3 mottles above 267 cm.; faint 2.5 Y 5/2 mottles below 277 cm.
Slightly silty lutite with common forams
10 YR 5/6 yellowish brown laminations at 263, 268 cm.; scattered micronodules below 270 cm.
G.

288-508
CALC OOZE
Unit alternates between 10 YR 5/2 grayish brown and 10 YR 5/3 brown
Common to extensive 2.5 Y 5/2 and 2.5 Y 4/2 grayish brown mottles throughout
Slightly silty lutite with common forams
Several 10 YR 4/6 dark yellowish brown laminations at 291, 302, 306, and one silty lamination at 445 cm.; few black flecks at 486 cm.
G, mottled

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 62 PC

Lithologic Log



Detailed Description

508-610
CALC OOZE
10 YR 6/2 light brownish gray except 10 YR 6/3 pale brown from 534-558 cm.
Scattered 10 YR 5/2 grayish brown mottles throughout
Silty lutite with abundant forams except scattered from 534-558 cm.
Faint 10 YR 6/6 brownish yellow concave upward lamination at 576 cm.
G.

610-660
CALC OOZE
10 YR 6/4 light yellowish brown becoming 10 YR 5/3 brown mixed with 7.5 YR 5/4 brown
Scattered 2.5 Y 5/2 grayish brown mottles throughout; scattered 10 YR 4/3 brown mottles below 650 cm.
Smooth lutite with scattered forams
Silty 10 YR 5/6 yellowish brown lamination at 627 cm.; mottles above 645 cm. contain greater concentrations of forams than surrounding lutite
G, mottled.

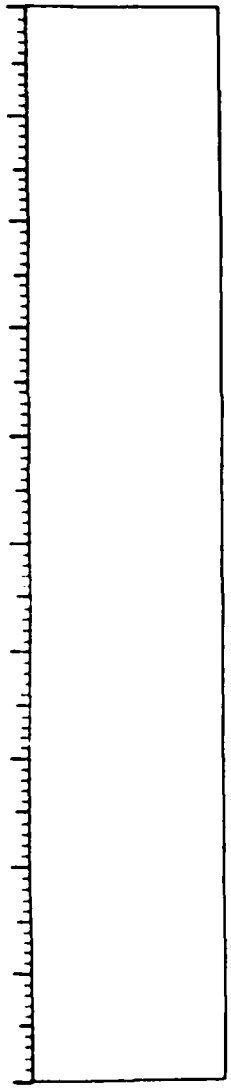
660-697
CALC OOZE
10 YR 7/2 light gray but 10 YR 6/2 closer to unit contacts
Scattered 10 YR 5/2 grayish brown mottles, larger above 675 cm.
Silty lutite with abundant forams
Few black flecks at 670 cm.
G.

697-723
CALC OOZE
10 YR 6/4 light yellowish brown
Few faint 10 YR 5/2 and 10 YR 6/3 mottles
Slightly silty lutite with common forams
10 YR 5/6 concave upward laminations at 702-708, 722 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No. 62 PC

Lithologic Log



Detailed Description

723-777
CALC OOZE
10 YR 6/2 Light brownish gray
Scattered large 2.5 Y 5/2 grayish brown mottles
Black flecks at 763 cm.; 2.5 Y 5/6 light olive brown lamination at 777 cm.

777-793
CALC OOZE
10 YR 5/2.5 grayish brown
Extensive 2.5 Y 5/2 and 2.5 Y 4/2 mottles above 791 cm.
Smooth lutite with scattered forams except common within mottles above 781 cm.
10 YR 7/2 light gray lamination at 791 cm.; 10 YR 6/4 light yellowish brown lamination at 292 cm.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 62 PC

Expedition 110 Station No. 41

Leg No. 2 Total Core Length 793 cm

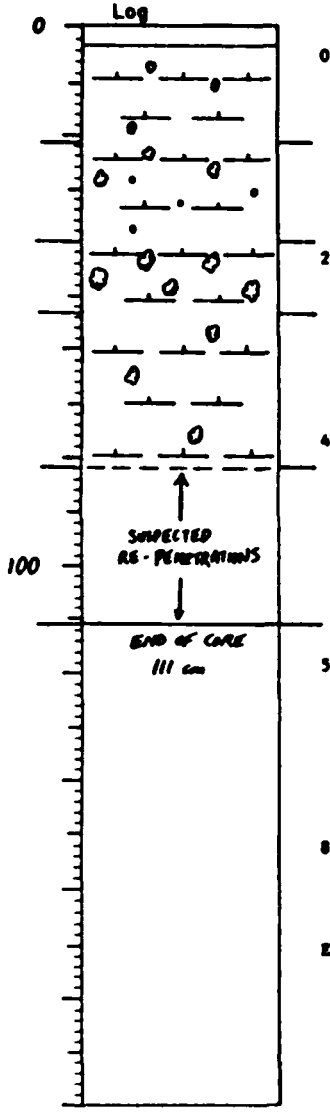
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE	1	6			35	20	24	2		1	1		
15	CALC OOZE	1	10			30	20	28			1	TR		
36	CALC OOZE	5	12			40	6	36			1			
110	CALC OOZE	3	2			50	5	39			1			
163	CALC CLAY W/ DETRITUS	15	8			66	TR	7		TR	4			
220	CALC OOZE	1	2			55	12	28	1		1			
253	CALC OOZE	1	3			60	15	18	2		1			
275	CALC OOZE	6	10			45	4	34			1			
380	CALC OOZE	2	3			60	6	25	3		1			
438	CALC OOZE	7	3			55	4	30			1			
635	CALC OOZE	5	6			49	3	25	1		1			
680	CALC OOZE	1	1			34	25	35	2		2			
710	CALC OOZE	2	4			40	10	43	TR		1			
750	CALC OOZE	3	1			50	15	30			1			
787	CALC OOZE	4	3			55	1	30			4			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 41 Core No 62 PG
Total Length 111 cm. Lat. 4°45.12'N Long. 43°09.00'W Depth 4046 m corr.
Core condition GOOD Date Described 27 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-21
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams becoming common below 16 cm.
Shrinkage void 0-3 cm.
G.

21-40
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with many 10 YR 4/2 and 10 YR 3/2 dark grayish brown laminations
Few 10 YR 6/3 mottles above 29 cm.
Slightly silty lutite with common forams
Dark laminations are heaviest from 28-30 cm.
G.

40-53
CALC OOZE
10 YR 5/4 yellowish brown
Abundant 10 YR 5/3 brown mottles; few 2.5 Y 6/2 light brownish gray mottles with forams from 43-47 cm.
Slightly silty lutite with common to abundant forams
G, mottled.

53-82
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Scattered 2.5 Y 5/2 grayish brown mottles
Slightly silty lutite with common to abundant forams
10 YR 5/6 yellowish brown laminations at 53, 66 cm.

82-111
SUSPECTED RE-PENETRATIONS

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

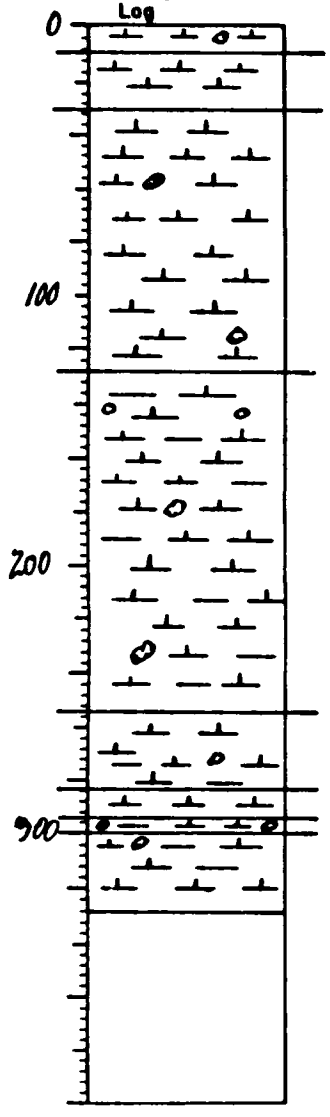
Ship: KNR Core No. 62 PG
Expedition 110 Station No. 41
Leg No. 2 Total Core Length 111 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	2			45	20	32	TR		1	TR		TR
15	CALC OOZE	TR	5			45	12	36	TR		2	TR		
32	CALC OOZE W/ MICRONODULES	8	15			38	4	35			TR			
47	CALC OOZE	3	10			55	4	28	TR		1			
70	CALC OOZE	2	4			45	6	42	TR		1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 42 Core No 63GGC
Total Length 328 cm. Lat. 9° 13.3' N Long. 58° 29.4' W Depth 3892 m
Core condition excellent Date Described 11/4/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-9
CALC OOZE
10YR 6/4 light yellowish brown
scattered mottling of 10YR 5/3 brown material
lutite with abundant forams
top 2.5 cm missing due to shrinkage
G

9-30
CALC OOZE
10YR 5/6 yellowish brown
mainly intercalated throughout
smooth lutite with forams common
unit extensively intercalated throughout with darker material
G

30-128
CALC OOZE
10YR 5/6 yellowish brown
scattered mottling of 10YR 4/3 brown material
smooth lutite with abundant to common forams throughout
S, horizontal

128-254
HIGHLY CALC CLAY
2.5Y 5/6 light olive brown with some slight color variations downcore
scattered to common mottling of 10YR 4/3 dark brown material
smooth lutite with common forams throughout
141-144 cm = extensively mottled region; 185-186cm: 10YR 6/4 light yellowish brown
G

254-283
CALC OOZE
10YR 5/4 yellowish brown
scattered mottling of 10YR 4/3 dark brown material, mainly in uppermost 10 cm.
smooth lutite with abundant forams, grading into extensive forams at about 270 cm. Pteropods?
thin, 0.5cm. thick, 10YR 5/8 yellowish brown layer at base of unit
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 42 Core No 63GGC

Lithologic Log

Detailed Description

283-295
CALC OOZE
7.5YR 6/6 reddish yellow
few mottles
smooth lutite with scattered to common forams
very uniform in comparison to surrounding units
S, horizontal

295-300
HIGHLY CALC CLAY
10YR 5/8 yellowish brown
extensively mottled, intercalated throughout
smooth lutite with scattered forams
completely intercalated
S, horizontal

300-328
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered mottling in upper 12 cm. only
smooth lutite with scattered to common forams
lowermost 20 cm quite uniform

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 63GGC

Expedition 110 Station No. 42

Leg No. 2 Total Core Length 328 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7 cm	calc ooze	Tr	1			52	15	10			22			Tr
26	" "	Tr	2			59	5	19			15			
80	" "	1	3			58	8	18			12			
140	highly calc clay	2	2			69	2	17			8			
184	" " "	3	1			80	1	7			8			
240	" " "	3	1			80	1	9			6			
265	calc ooze	1	1			62	8	10			18			
290	" "	1	2			66	8	8			15			
297	highly calc clay	1	3			75	4	9			8			
315	" " "	1	1			82	2	9			5			

VISUAL CORE DESCRIPTION

Page 1 of 3

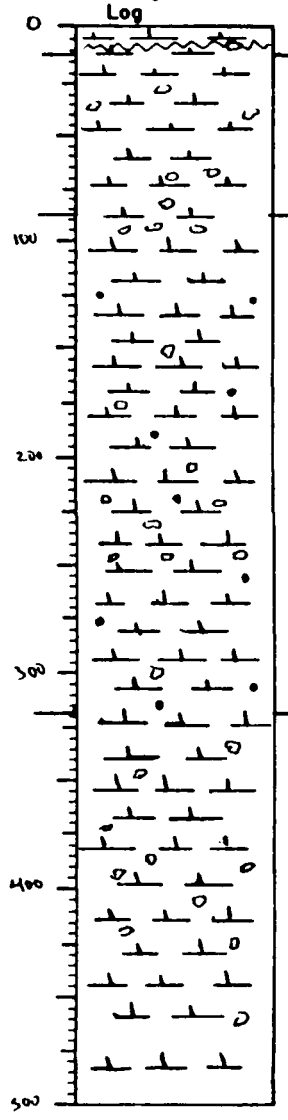
Ship Knorr Cruise 110 Leg 2 Sta. 42 Core No 64 PC

Total Length 1075 cm. Lat. 9°42.4'N Long. 43°52'W Depth 3395 m

Core condition good Date Described 6/30/89 by Schneider

Physiographic location CENTRAL RISE

Lithologic Log



Detailed Description

0-12
CALC OOZE
Brown (10 YR 5/3)
Faint mottling throughout
Lutite with abundant forams
Core was accidentally frozen before splitting, resulting in extensive cracking and shrinkage of material; all sections have large (~10 cm.) voids at their tops; very little sediment in this interval.
S, H.

12-88
CALC OOZE
Dark yellowish brown (10 YR 4/4)
Mottling is scattered to common in the unit
Smooth lutite with scattered forams
G.

88-319
CALC OOZE
Brown (10 YR 5/3) into pale brown (10 YR 6/3) from 214-273 cm. into yellowish brown (10 YR 5/4) to base of unit.
Commonly mottled from 88-101, 215-240 cm ; otherwise faintly mottled.
Smooth lutite with common forams
Dark yellowish brown (10 YR 4/6) from 209-214 and from 270-319 cm.; fairly intercalated from 270-319 cm.; Mn micronodule concentrations scattered throughout interval
G.

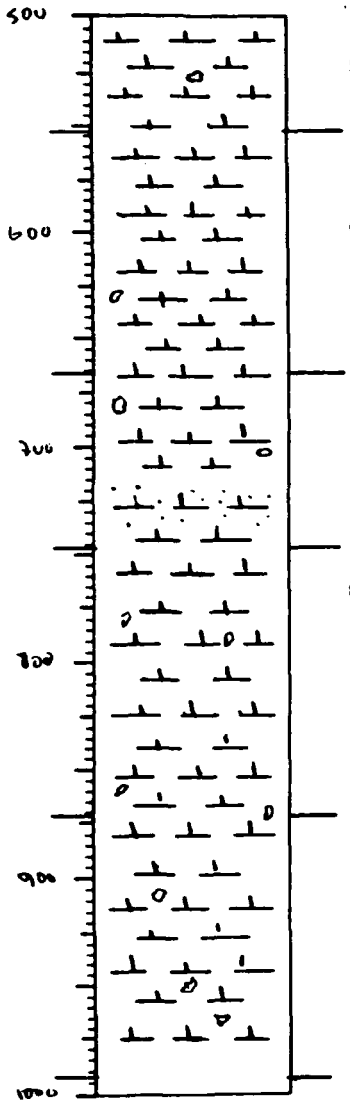
319-553
CALC OOZE
Brown (10 YR 5/3)
Scattered to common mottles with gray (10 YR 5/1) especially 370-428 cm.
Smooth lutite with scattered forams; common forams from 420-450 cm.; few forams to 553 cm.
G.

VISUAL CORE DESCRIPTION

Page 2 of 3

Ship Knorr Cruise 110 Leg 2 Sta. 43 Core No. 64PC

Lithologic Log



Detailed Description

553-666
CALC OOZE
Pale brown (10 YR 6/3)
Very faint gray mottling from 620-640 cm.
Slightly silty lutite with scattered forams; silty at 620-660 cm.
G.

666-746
CALC OOZE
Yellowish brown (10 YR 5/4)
Faint gray mottling at 666-710 cm.; unit changes to pale brown at about 715 cm.
Smooth lutite from 666 to 715 cm., silty with scattered forams from 715-746 cm.
G.

746-872
CALC OOZE
Brown (10 YR 5/3)
Faint scattered gray mottling from 750-786 cm. & from 841-872 cm.
Slightly silty lutite with few forams; smooth lutite from 822-872 cm.
G.

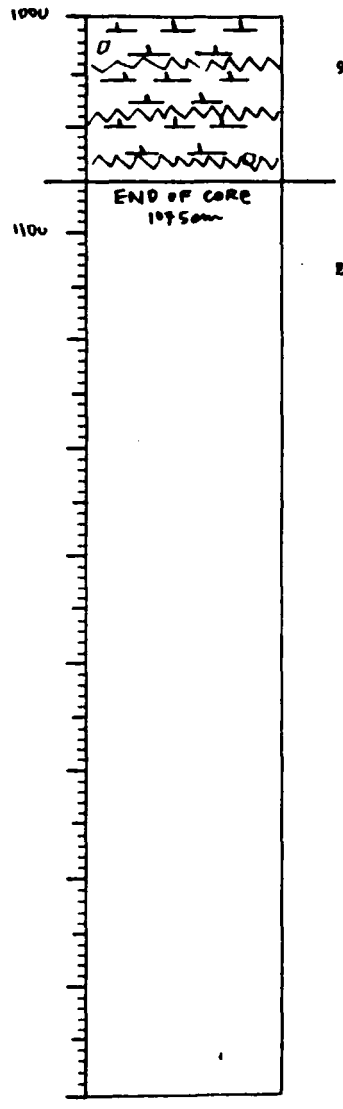
872-992
CALC OOZE
Light yellowish brown (2.5 Y 6/4)
Very faint gray mottles throughout unit scattered yellowish brown (10 YR 5/6) 904-908 cm.; unit turns to brown (10 YR 5/3) 928-964 cm., then very pale brown (10 YR 7/4 at 964-992 cm.
Slightly silty lutite with few forams; silty consistency at 964-992 cm.
G.

VISUAL CORE DESCRIPTION

Page 3 of 3

Ship Knorr Cruise 110 Leg 2 Sta. 43 Core No. 64PC

Lithologic Log



Detailed Description

992-1075
CALC OOZE
Grayish brown (10 YR 5/2)
Faint gray mottling throughout unit; top 11 cm. of unit is yellowish brown (10 YR 5/6); bottom 30 cm. is dark grayish brown (10 YR 4/2)
Smooth, firm lutite
Extensive cracking at bottom of core.

END OF CORE

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 64 PC

Expedition 110 Station No. 42

Leg No. 2 Total Core Length 1075 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
10	CALC OOZE	3	2			47	5	48			TR				
45	CALC OOZE	TR	1			60	2	37			TR				
120	CALC OOZE	TR	TR			40	TR	60			TR				
205	CALC OOZE	2			TR	60	2	36							
260	CALC OOZE	2	TR			30	15	53							
305	CALC OOZE	2	5			40	3	50							
370	CALC OOZE		2			60	3	35							
400	CALC OOZE	2	3			30	5	60			TR				
440	CLAC OOZE	2	TR			30	15	53							
480	CALC OOZE	3	2			20	15	60			TR				
556	CALC OOZE	3	2			35	10	50							
574	CALC OOZE	2	3			15	10	70							
634	CALC OOZE	3				30	10	57							
670	CALC OOZE		3			32	5	60							
700	CALC OOZE	3	2			35	5	55							
730	CALC OOZE	TR	TR			40	10	50							
755	CALC OOZE	3	2			25	10	60							
800	CALC OOZE	TR	2			30	5	63							

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 64 PC

Expedition 110 Station No. 42

Leg No. 2 Total Core Length 1075 cm

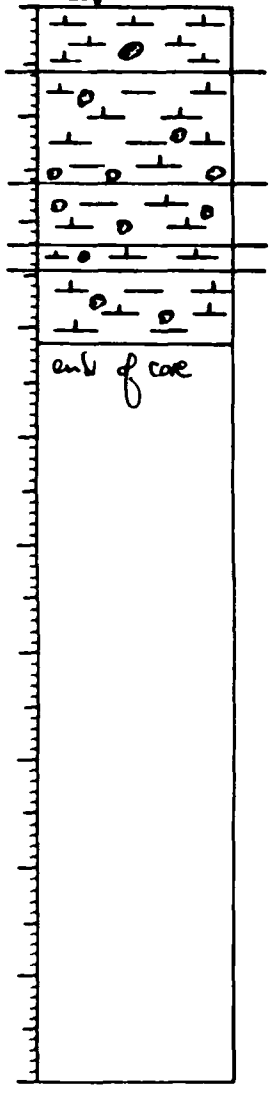
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
840	CALC OOZE	2	3			42	3	50							
880	CALC OOZE	TR	TR			40	3	57							
906	CALC OOZE	TR	2			30	TR	68			TR				
958	CALC OOZE	TR	1			27	2	70			TR				
997	CALC OOZE	TR	2			30	3	65			TR				
1015	CALC OOZE	2	2			30	3	63							
1055	CALC OOZE	2	2			33	3	60							

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 42 Core No 64PG
Total Length 126 cm. Lat. 9°52.40'N Long. 13°08.80'W Depth 3750m
Core condition Good Date Described 5/4/82 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-23
CALC OOZE
10YR 7/4 very pale brown
Scattered mottling
Lutite with abundant forams
Multiple penetrations obvious 0-4 cm.-void due to compaction
G

23-66
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
Common mottling in basal 6 cm., faint mottling elsewhere
Smooth lutite with common forams
Interval of intercalation, except for bottom 6 cm.
S, horizontal

66-89
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
Scattered to common mottling
Smooth lutite with common forams
G

89-98
CALC OOZE
This unit is the same as the above 0-23 cm. interval.
Multiple penetration
G

98-126
HIGHLY CALC CLAY
As above, this interval is the same as 23-66 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

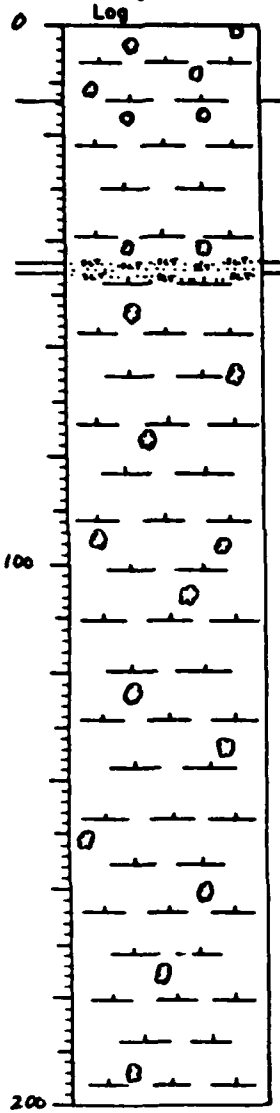
Ship: Knorr Core No. 64PG
Expedition 110 Station No. 42
Leg No. 2 Total Core Length 126 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	calc ooze	Tr.	1			65	10	10			14			Tr
50	highly calc clay	Tr	1			75	4	12			8			
80	" " "	Tr	1			71	6	12			10			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 45 Core No 65 66C
Total Length 335 cm. Lat. 4°36.55' N Long. 95°20.09' W Depth 2628 m corr.
Core condition EXCELLENT Date Described 28 FEB 1979 by P. MIKS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation of major colors
Silty lutite with abundant forams grading to common
G.

13-44
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with 10 YR 4/2 dark grayish brown laminations
Faint 10 YR 6/3 pale brown mottling above 18 cm.; faint 2.5 Y 6/2 light brownish gray mottling near unit base
Slightly silty lutite with common forams
Dark laminations are concentrated in the regions 15-18, 21-24, 34-38 cm.
S.

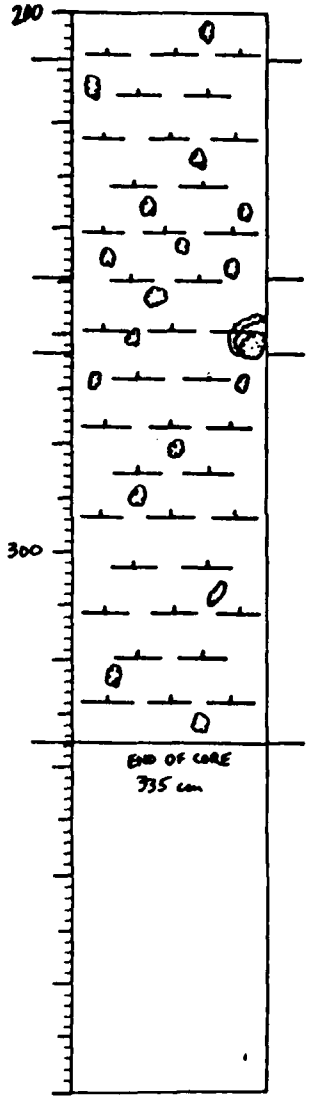
44-46
CALC OOZE/MICRONODULES
10 YR 5/6 yellowish brown
Slightly silty lutite with common forams; three silty slightly lithified horizons at 44, 45, 46 cm.
S.

46-208
CALC OOZE
10 YR 6/3 pale brown
Common 2.5 Y 6/2 light brownish gray and 2.5 Y 5/2 grayish brown mottles; few 5 Y 4/1 dark gray mottles at 110, 164, 181 cm.
Slightly silty lutite with common forams
Large 2.5 Y 6/2 light brownish gray mottle with abundant forams at 122 cm.; large 5 Y 5/2 olive gray mottle at 169 cm.; few horizontal regions tinged with 10 YR 5/6 yellowish brown at 76, 85, 137, 188 and 205-208 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 45 Core No 65 66C

Lithologic Log



Detailed Description

208-249
CALC OOZE
10 YR 5/3 brown
Common to extensive 2.5 Y 4/2 dark grayish brown mottling and common 10 YR 4/2 dark grayish brown mottles from 221-249 cm.
Smooth lutite with scattered forams
Large 2.5 Y 4.5/2 grayish brown burrow at 232-233 cm.
G.

249-263
CALC OOZE
2.5 Y 5/2 grayish brown grading to 5 Y 4/1 dark gray
Few large 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with common forams
Large 5 Y 4/1 dark gray burrow with black flecks at 261-263 cm.
S, mottled.

263-335
CALC OOZE
2.5 Y 6/2 light brownish gray grading to 2.5 Y 6/4 light yellowish brown from 275-295 cm. and from 328-335 cm..
Scattered mottling with intercalation; few 5 Y 4/1 dark gray mottles near top of unit.
Slightly silty lutite with common forams except scattered below 325 cm.; unit becomes smooth moist lutite below 327 cm.
Two horizontal regions tinged with 10 YR 5/6 yellowish brown at 284 and 292 cm.; scattered 10 YR 5/2 grayish brown mottles from 285-292; large 5 Y 5/2 olive gray burrow at 306-308 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 65 GGC

Expedition 110 Station No. 43

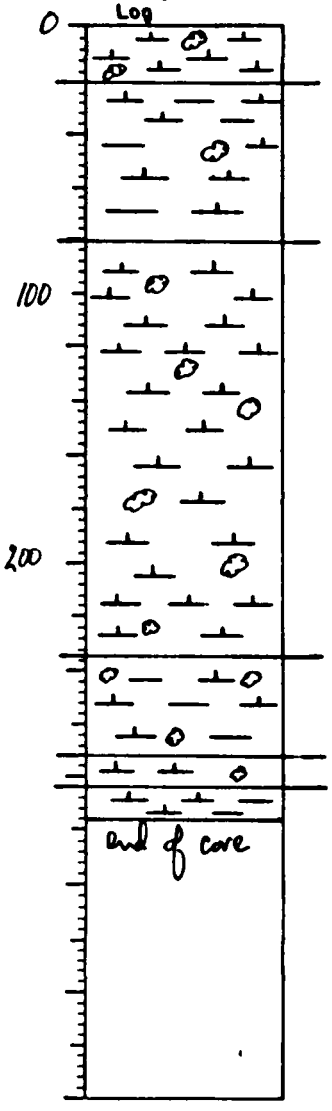
Leg No. 2 Total Core Length 335 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	TR	3			25	30	40			1			1
30	CALC OOZE W/ MICRONODULES	TR	15			38	6	40			1			
100	CALC OOZE	TR	5			30	15	50			TR			
175	CALC OOZE		2			38	10	50			TR			
227	CALC OOZE	1	3			50	TR	46						
255	CALC OOZE	2	2			45	7	44			TR			
300	CALC OOZE	1	2			45	10	42			TR			
334	CALC OOZE	3	4			55	4	34						

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 44 Core No 66 GGC
Total Length 297 cm. Lat. 4° 31.9'N Long 43°22.8' W Depth 3547m
Core condition excellent Date Described 11/19/88 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-20
CALC OOZE
10YR 6/4 light yellowish brown
common mottling throughout
abundant forams
G

20-81
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
scattered mottling
smooth lutite with common forams
dark intercalated areas at: 32-33, 42-46, 70-73 cm;
2 cm wide 10YR 5/8 yellowish brown arcuate band at base of unit
S, incline 20°

81-235
CALC OOZE
10YR 6/3 pale brown
common to extensively mottled throughout
smooth lutite with common forams
217-218, 232-235 cm.; 10YR 5/8 yellowish brown region
S, horizontal

235-272
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
extensively mottled at top down to common mottling throughout
smooth lutite with common forams
G

272-284
CALC OOZE
10YR 6/4 light yellowish brown
scattered mottling
smooth lutite with common forams
G

284-297
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling
smooth lutite with common forams

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 66GGC

Expedition 110 Station No. 44

Leg No. 2 Total Core Length 297 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
11 cm	calc ooze	Tr	1			50	12		Tr	11	25			1	
65	highly calc clay	1	3			75	2			15	4				
126	calc ooze	Tr	2			64	8			11	15				
190	" "	Tr	2			67	4			17	10				
251	highly calc clay	1	2			76	3			10	8				
278	calc ooze	Tr	1			66	8			13	12				
290	highly calc clay	2	2			75	1			15	4				

VISUAL CORE DESCRIPTION

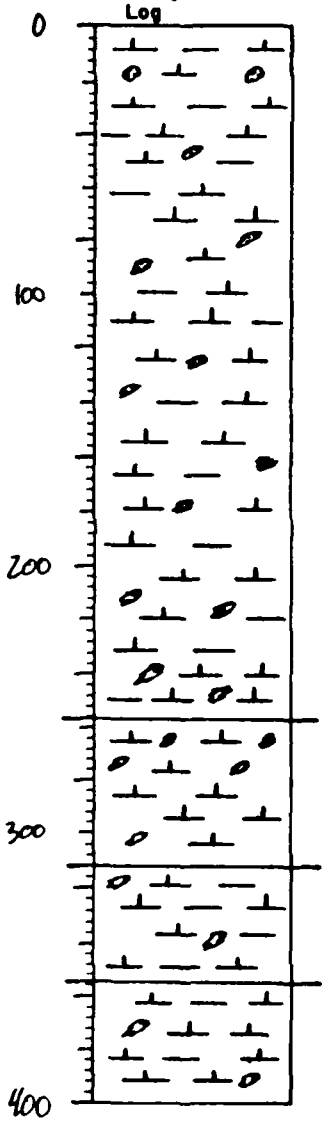
Ship Knorr Cruise 110 Leg 2 Sta. 44 Core No 67PC

Total Length 1029 cm. Lat. 4° 34.48'N Long 58° 21.2'W Depth 3602 m

Core condition excellent Date Described 4/6/82 by DAVIS

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-257
HIGHLY CALC CLAY
color varies quite a bit in interval, including: 10YR 5/3 brown, 10YR 5/4 yellowish brown, 10YR 6/2 light yellowish brown
scattered to common mottling
smooth lutite with common forams
potentially over penetrated
top 5 cm. intercalated
10YR 4/6 dark yellowish brown layers at: 15, 35, 59, 162, etc.
other areas are faintly "stained" this color
G

257-312
CALC OOZE
10YR 6/3 pale brown
common mottling to 280 cm., then faint to scattered mottling below
smooth lutite with common forams with forams becoming abundant below 280 cm.
a few 10YR 4/6 dark yellowish brown "stained" layers in interval
G

312-355
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
faint to scattered mottling
smooth lutite with common forams
some intercalation in top 4 cm.
areas of Mn micronodules present
G

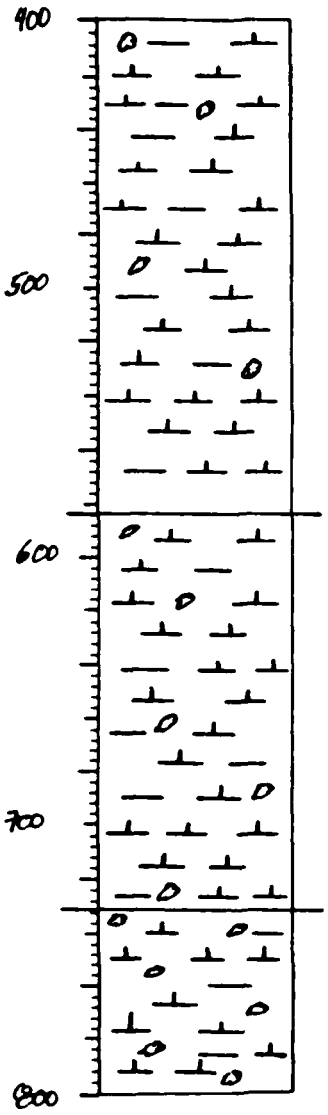
355-584
HIGHLY CALC CLAY
10YR 5/3 brown
scattered mottling
smooth lutite with common forams
10YR 4/6 dark yellowish brown layer from 358-359 cm.
G

584-731
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown and 10YR 5/3 brown
scattered mottling
smooth lutite with common forams except from 584-653, and 689-715 cm. which have abundant forams from 715-731 cm. layers of Mn micronodule concentrations are present
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 44 Core No. 67PC

Lithologic Log



Detailed Description

731-814
HIGHLY CALC CLAY
10YR 6/3 pale brown
commonly mottled
smooth lutite with common forams
Mn micronodule concentration layers at 739 and 741 cm.
G

814-915
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
faint mottling
smooth lutite with common to abundant forams
G

915-954
HIGHLY CALC CLAY
10YR 6/3 pale brown
faint mottling
smooth lutite with common forams; forams are abundant below 926 cm.
S, horizontal

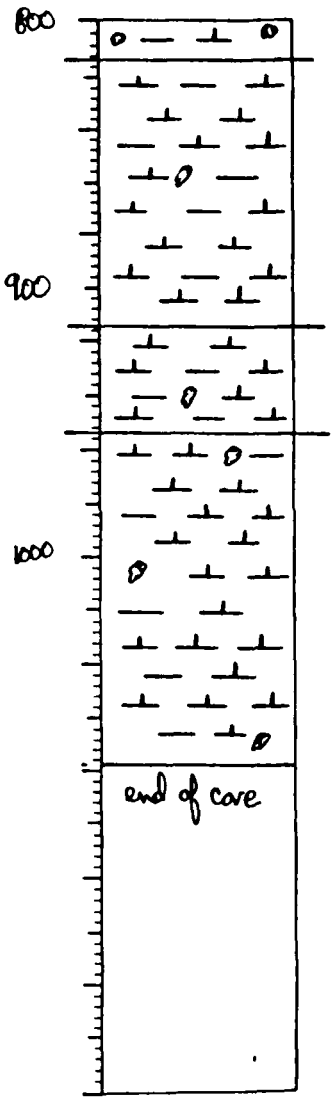
954-1078
HIGHLY CALC CLAY
10YR 5/4 yellowish brown to 980 cm., then 10YR 5/3 brown below
scattered mottling
smooth lutite with common to scattered forams
section disturbed between 991-997 cm. and from 1071 to base of core
some Mn micronodule concentrations down to 978 cm.

END OF CORE...

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 44 Core No. 67PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 67PC

Expedition 110 Station No. 44

Leg No. 2 Total Core Length 1078 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
40 cm	highly calc clay	Tr	1			73	6	8			12			
120	" " "	Tr	1			70	5	9			15			
180	" " "	Tr	1			71	4	9			15			
230	" " "	Tr	1			70	8	6			15			
285	calc ooze					52	2	6			40			
340	highly calc clay		2			73	5	10			10			
400	" " "	Tr	2			71	3	9			15			
480	" " "	Tr	1			79	4	10			6			
560	" " "	Tr	1			77	5	9			8			
615	" " "		1			71	10	12			6			
674	" " "		Tr			71	4	10			15			
760	" " "		Tr			80	8	10			2			
830	" " "		1			75	4	8			12			
925	" " "					74	2	9			15			
970	" " "		1			78	2	11			8			
1055	" " "		1			71	4	12			12			

VISUAL CORE DESCRIPTION

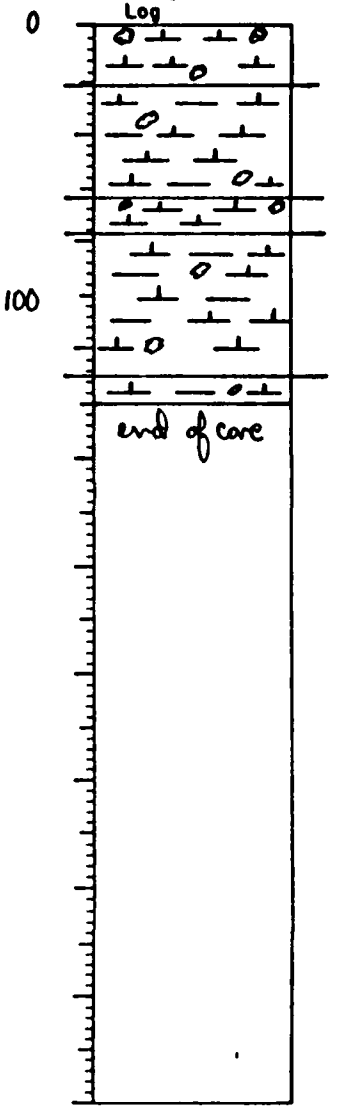
Ship Knorr Cruise 110 Leg 2 Sta. 44 Core No 67PG

Total Length 140 cm. Lat. 8°34.98'N Long. 78°41.1'W Depth 3608 m

Core condition excellent Date Described 4/6/89 by DAMS

Physiographic location Cocos Rise

Lithologic Log



Detailed Description

0-21
CALC OOZE
10YR 5/4 yellowish brown
common mottling decreasing to scattered mottling below 11 cm.
lutite with abundant forams
G

21-64
HIGHLY CALC CLAY
10YR 5/4 yellowish brown to 10YR 4/4 yellowish brown
scattered mottling
smooth lutite with common forams
from 25 cm. to bottom of unit is fairly heavily intercalated
bottom 2 cm. is 10YR 4/6 dark yellowish brown semi-indurated debris
S, horizontal

64-78
CALC OOZE
10YR 5/4 yellowish brown
common mottling decreasing to scattered mottling
lutite with abundant forams
this unit is the same as the 0-21 cm. interval
this core obviously penetrated more than once
G

78-115
HIGHLY CALC CLAY
10YR 5/4 yellowish brown to 10YR 4/4 dark yellowish brown
scattered mottling
smooth lutite with common forams
as above, this interval is the same as the 21-64 cm. interval
S, horizontal

115-140
HIGHLY CALC CLAY
10YR 5/3 brown
faint mottling, if any
smooth lutite with common forams
some intercalation present

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 67 PG

Expedition 110 Station No. 44

Leg No. 2 Total Core Length 140 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	calc ooze	Tr	1			66	7	11			15			Tr
45	highly calc clay	Tr	3			70	8	9			10			
125	" " "	Tr	2			72	7	7			12			

VISUAL CORE DESCRIPTION

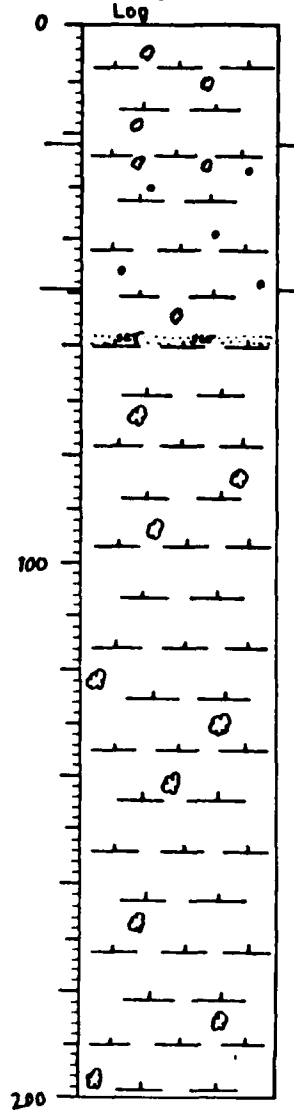
Ship KNR Cruise 110 Leg 2 Sta. 45 Core No 60 GGC

Total Length 335 cm. Lat. 4°33.82' N Long 42°22.45' W Depth 3547 m corr.

Core condition EXCELLENT Date Described 28 FEB 1990 by P. Mills

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-22

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-3 cm.
G.

22-49

CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with 10 YR 4/2 laminations
Faint 10 YR 6/3 pale brown mottles near top of unit
Slightly silty lutite with common forams
Dark laminations are most prominent in regions 22-23 cm., 37-42 cm., 49 cm.
G.

49-216

CALC OOZE
10 YR 5/3 brown
Common 2.5 Y 5/2 grayish brown mottling
Slightly silty lutite with common forams
Slightly lithified 10 YR 5/6 yellowish brown layer 1 cm. thick 58-59 cm. with sharp contacts; large 5 Y 5/2 olive gray burrow at 112-116 cm.
scattered 10 YR 4/2 dark grayish brown mottles 145-165 cm.; several horizontal regions tainted by 10 YR 5/6 yellowish brown most notably at 116, 122, 198 cm.; shrinkage void 150-152 cm
G.

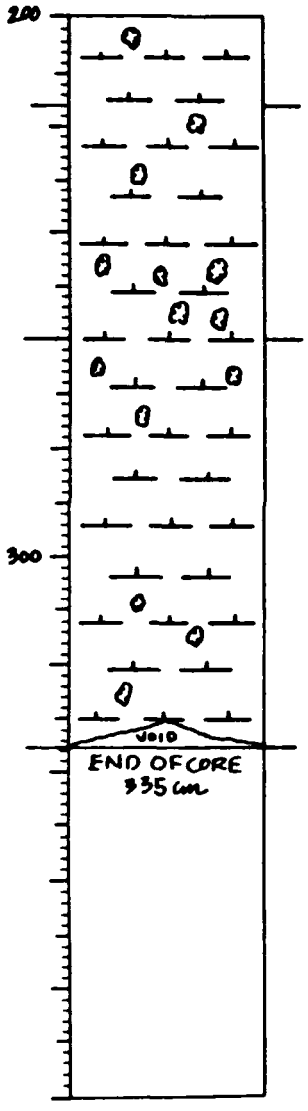
216-260

CALC OOZE
10 YR 5/4 yellowish brown
Common to extensive 2.5 Y 6/2 light brownish gray and 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown
Slick slightly silty lutite with scattered forams
Elongate burrow from 234-238 cm.
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise NO Leg 2 Sta. 45 Core No 60 GGC

Lithologic Log



Detailed Description

260-335
CALC OOZE
10 YR 6/2 light brownish gray grading to 2.5 Y 6/2 light brownish gray
Scattered mottling with intercalation above 285 cm.; scattered 5Y 4/1 dark gray mottles below 300 cm.
Slightly silty lutite with common forams
Sediment color grades to 2.5 Y 6/4 light yellowish brown from 294-318 cm.; horizontal lamination tinged with 10 YR 5/6 yellowish brown at 309 cm.; triangular void from 330-335 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 60 GGC

Expedition 110 Station No. 45

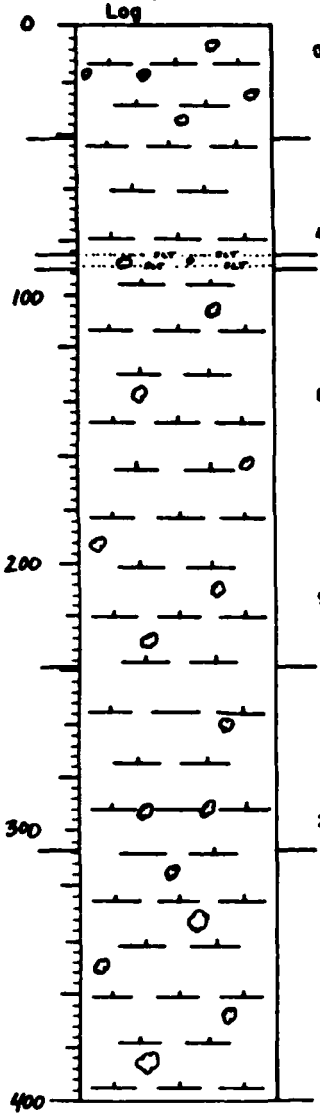
Leg No. 2 Total Core Length 335 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)														
		Inorganic Material					Biogenous Material									
		Silt & Sand					Calcareous					Siliceous				
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	5			25	30	35			4			1
15	CALC OOZE	1	5			35	15	45		TR	4			TR
40	CALC OOZE W/ MICRONODULES	3	15			37	4	40			1			
100	CALC OOZE	1	4			41	8	45			1			
165	CALC OOZE	2	3			43	6	45			1			
230	CALC OOZE	8	5			45	5	35			2			
290	CALC OOZE	TR	2			50	10	36			2			
330	CALC OOZE	5	3			55	5	31			1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 46 Core No 70 PC
Total Length 1134 cm. Lat. 4°24.60' N Long. 93°26.00' W Depth 3274 m corr.
Core condition Good Date Described 28 MAR, 1980 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-41
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation of major colors
Silty lutite with abundant forams grading to common below 25 cm.
G.

41-85
CALC OOZE
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Slightly silty lutite with common forams
Dark laminations most concentrated from 47-58 cm.
S, I 10°.

85-90
CALC OOZE
10 YR 5/5 yellowish brown
Few 2.5 Y 5/2 grayish brown mottles
Silty lutite with common forams and manganese micronodules
Silty 10 YR 5/6 yellowish brown lamination at 85, 89 cm.
G, I 20°.

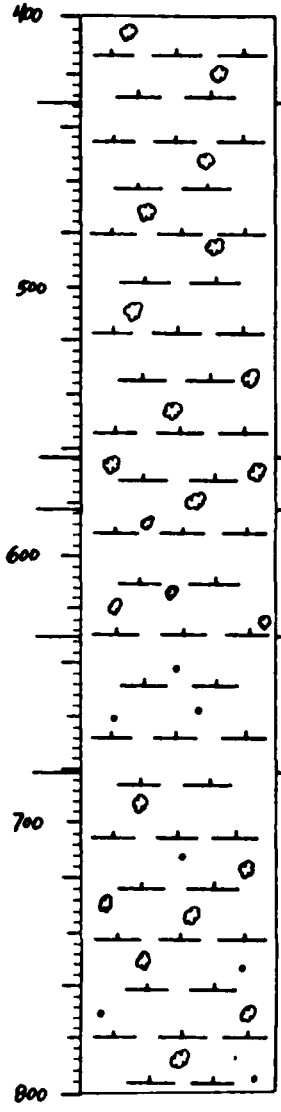
90-239
CALC OOZE
10 YR 5/3 brown but slightly yellowish brown in places
Scattered 2.5 Y 5/2 grayish brown and few 10 YR 4/3 dark brown mottles
Slightly silty lutite with common forams
Faint 10 YR 5/6 laminations at 163-165, 236-239 cm.
S.

239-307
HIGHLY CALC CLAY
10 YR 6/3 pale brown becoming 10 YR 6/4 light yellowish brown below 260 cm.
Scattered 2.5 Y 5/2 grayish brown mottles except extensive 5 Y 4/1 dark gray mottles from 289-295 cm.
Silty lutite with common forams
10 YR 5/6 yellowish brown region from 279-282 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 46 Core No 70 PC

Lithologic Log



Detailed Description

307-400
CALC OOZE
10 YR 5/3 brown but slightly yellowish in places
Common 2.5 Y 5/2 grayish brown mottles becoming large below 325 cm.; few 10 YR 3/2 very dark grayish brown mottles above 340 cm.
Smooth lutite with common forams
Top 2 cm. of unit is tinged with 10 YR 5/6 yellowish brown
G.

400-430
CALC OOZE
10 YR 6/2 light brownish gray
Scattered 10 YR 5/2 grayish brown mottles
Silty lutite with common to abundant forams
G.

430-563
CALC OOZE
10 YR 6/4 light yellowish brown and 10 YR 6/3 pale brown
Scattered 10 YR 5/2 grayish brown mottles except common 466-484 cm.
Slightly silty lutite with common forams
Few 10 YR 5/8 yellowish brown laminations 347-351 cm.; 10 YR 5/6 region 555-558 cm.
G.

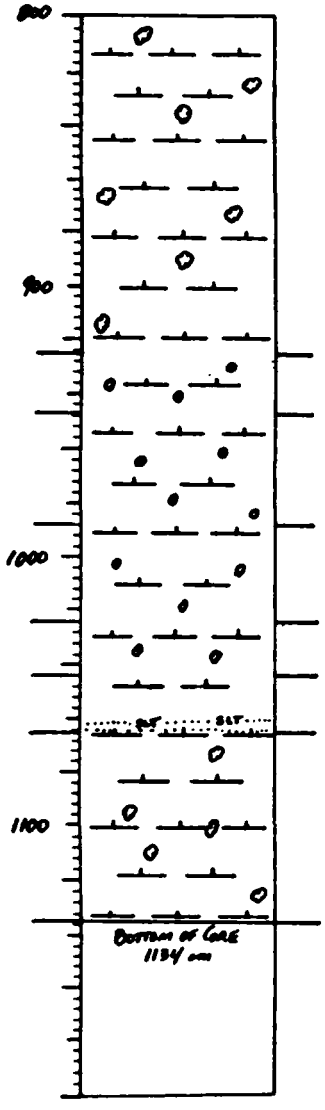
563-582
CALC OOZE
10 YR 5/2 grayish brown
Common 2.5 Y 5/2 grayish brown mottles
Slightly silty lutite with common forams
Top 3 cm. of unit tinged with 10 YR 5/6 yellowish brown
G.

582-630
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/2 light brownish gray
Scattered 2.5 Y 5/2 mottles above 590 cm.; scattered intercalations from 605-620 cm.
Silty lutite with abundant forams
10 YR 2/2 very dark brown mottle at 624 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 46 Core No 70 PC

Lithologic Log



Detailed Description

630-681
CALC OOZE WITH DETRITUS
10 YR 5/4 yellowish brown but reddish above 660 cm.
Slightly silty lutite with abundant forams grading to common below 640 cm.
Many 10 YR 5/6 yellowish brown regions and laminations most notably at 641-642 and 665-668 cm. and visible micronodules 640-663 cm.
G, near bottom contact.

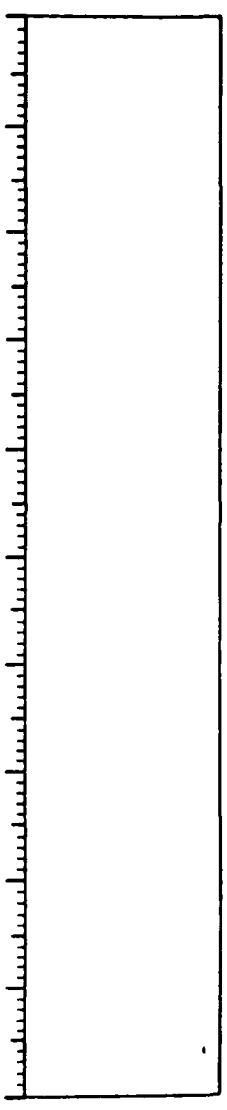
681-925
CALC OOZE WITH MICRONODULES
10 YR 5/2 grayish brown except 10 YR 5/4 yellowish brown from 765-800 cm.
Scattered 5 Y 4/2 dark gray mottles becoming common below 714 cm.
Slightly silty lutite with common forams becoming abundant from 805-830 cm.
Few horizontal regions tinged with 10 YR 5/6 yellowish brown most notably at 760, 850-858, 875 cm.
G, mottled.

925-947
CALC OOZE
10 YR 6/2 light brownish gray
Faint 10 YR 5/2 grayish brown mottles
Silty lutite with abundant forams
Large 2.5 Y 5/2 grayish brown mottle 928-930 cm.; few black flecks 934 cm.
G.

947-988
CALC OOZE
10 YR 6/3 pale brown becoming lighter below 976 cm.
Faint 10 YR 5/2 grayish brown mottles
Slightly silty lutite with common forams grading to abundant below 960 cm.
G.

Ship KNR Cruise 110 Leg 2 Sta. 46 Core No 70 PC

Lithologic Log



Detailed Description

988-1024
CALC OOZE
10 YR 5/4 yellowish brown grading to 10 YR 5/2 grayish brown
Few 2.5 Y 5/2 grayish brown mottles; few 10 YR 6/3 pale brown mottles above 1000 cm.
Slightly silty lutite with common forams
Several 10 YR 5/6 laminations and visible micronodules above 1010 cm.
G.

1024-1044
CALC OOZE
2.5 Y 6/2 brownish gray grading to 2.5 Y 7/2 light gray
Scattered intercalations throughout
Silty lutite with abundant forams
Faint 10 YR 5/6 lamination at 1042 cm.
G.

1044-1065
CALC OOZE
2.5 Y 5/3 grayish olive/brown
Slightly silty lutite with common forams
Common micronodules above 1052 cm.; silty 10 YR 4/6 dark yellowish brown laminations 1062-1064 cm.
S.

1065-1134
CALC OOZE
10 YR 5/2 grayish brown with slight color variations
Common 10 YR 5/1 gray mottling becoming extensive from 1092-1105 cm.
Slightly silty lutite with common forams becoming scattered from 1096-1116 cm.
Few black mottles at 1093-1095 cm.; 10 YR 5/6 laminations 1082 cm.

END OF CORE.

NOTE: PILOT CORE LOST
[A-TEAM]

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 70 PC

Expedition 110 Station No. 46

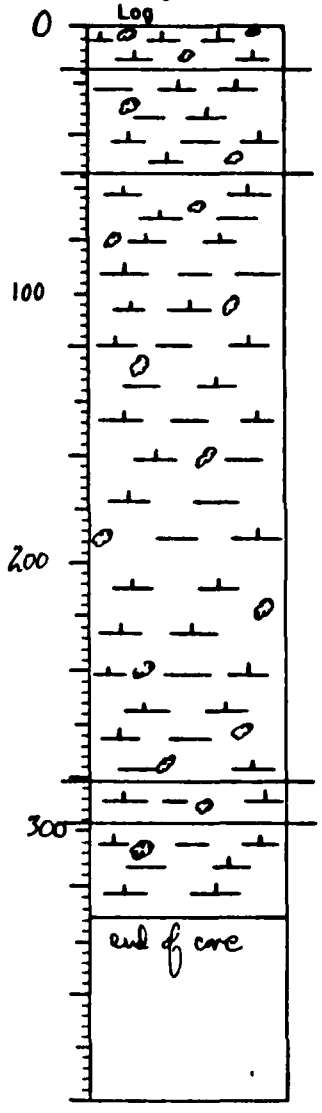
Leg No. 2 Total Core Length 1134 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micromodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	TR	5			30	25	30	2		5	3		
30	CALC OOZE	1	5			35	20	35	TR		4	TR		
68	CALC OOZE	3	10			54	7	25	TR		1			
160	CALC OOZE	3	3			37	5	45	TR		1			
260	HIGHLY CALC CLAY	1	2			67	8	20			2			
350	CALC OOZE	6	3			60	4	25			2			
420	CALC OOZE	6	3			45	15	29			2			
510	CALC OOZE	2	4			50	10	32			2			
575	CALC OOZE	10	4			45	13	25	2		1			
610	CALC OOZE	1	2			35	35	24	1		7			
658	CALC OOZE W/ DETRITUS	15	7			38	8	30			2			
800	CALC OOZE W/ MICROMODULES	8	15			32	4	40			1			
935	CALC OOZE	1	2			40	20	36			1			
970	CALC OOZE	TR	2			35	35	24			4			
1010	CALC OOZE	1	6			54	3	35			1			
1055	CALC OOZE	1	9			37	7	45			1			
1133	CALC OOZE	1	2			23	8	65			1			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 47 Core No 71GGC
Total Length 335 cm. Lat. 4°21.8'N Long. 43°41.8'W Depth 3164 m
Core condition excellent Date Described 4/4/89 by DAVIS
Physiographic location Coon Rise

Lithologic Log



Detailed Description

0-15
CALC OOZE
10YR 6/4 light yellowish brown
common mottling, especially near top
lutite with abundant forams
G

15-55
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
scattered mottling
smooth lutite with common forams
heavily intercalated throughout; indurated
10YR 5/8 yellowish brown layer from 53-55 cm.
S, horizontal

55-281
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
common mottling throughout
smooth lutite with common forams
10YR 5/8 yellowish brown indurated layers at:
94,95,133,134,170,209, and 230 cm.
G

281-297
HIGHLY CALC CLAY
10YR 6/4 light yellowish brown
scattered mottling
smooth lutite with common forams
G

297-335
HIGHLY CALC CLAY
10YR 7/6 yellow
scattered mottling
smooth lutite with common forams
10YR 5/8 yellowish brown indurated layers at
311 and 312

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 71GGC

Expedition 110 Station No. 47

Leg No. 2 Total Core Length 335 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	calc ooze	Tr	1			57	10	14	Tr		18			Tr
44	highly calc clay	Tr	3			71	4	14			8			
110	" " "	Tr	2			74	5	15			4			
190	" " "	Tr	1			78	2	16			3			
265	" " "	Tr	3			79	4	11			3			
286	" " "	Tr	1			81	2	13			3			
318	" " "	Tr	1			80	2	14			3			

VISUAL CORE DESCRIPTION

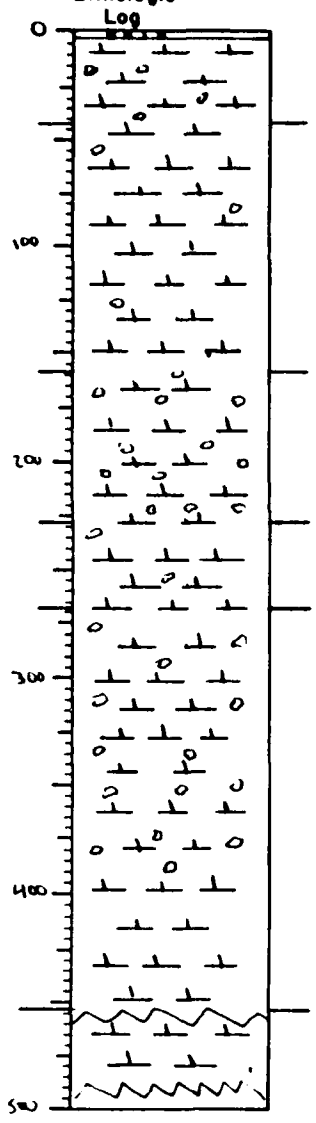
Ship Knorr Cruise 110 Leg 2 Sta. 47 Core No 72 PC

Total Length 867 cm. Lat. 4° 22.0'N Long. 93° 40.2' W Depth 3194

Core condition good Date Described 6/30/79 by Schneider

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-43
CALC OOZE
Brown (10 YR 5/3)
Scattered grayish brown (10 YR 5/2) mottling; top cm. of unit has yellowish brown (10 YR 5/4) layer
Slightly silty lutite
Section has settled 2 1/2 cm. in tube due to compaction
S, M.

43-159
CALC OOZE
Yellowish brown (10 YR 5/4)
Very faint grayish brown mottling throughout; changes to brownish yellow (10 YR 6/6) 60-82 cm., then back to yellowish brown
Smooth lutite with few forams
S, M.

159-229
CALC OOZE
Yellowish brown (10 YR 5/6)
Extensive grayish brown mottling 75-96 cm ; unit changes thru pale brown (10 YR 6/3) to light yellowish brown (10 YR 6/4)
Smooth lutite with few forams; silty lutite 210-239 cm.
S, M.

229-269
CALC OOZE
Brownish yellow (10 YR 6/8)
Faint grayish brown mottling throughout unit
Smooth, firm lutite with few forams
S, M.

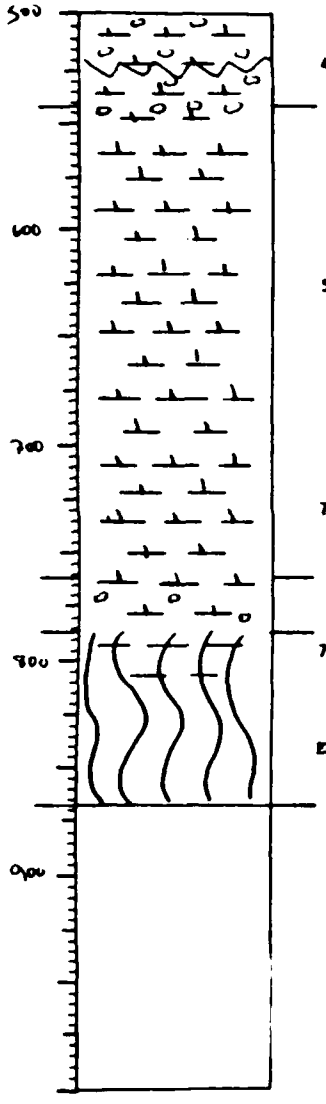
269-452
CALC OOZE
Grayish brown (10 YR 5/2)
Scattered yellowish brown streaks (10 YR 5/2) and dark grayish brown mottles throughout unit, especially 394-408 cm. for the latter
Smooth lutite with few forams
G.

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 47 Core No. 72PC

Lithologic Log



Detailed Description

452-544
CALC OOZE
Pale brown (10 YR 6/3)
Light brownish gray (10 YR 6/2) layers at 452-466 & 494-506 cm., some dark grayish brown mottles at top of unit
Firm lutite with scattered forams; layers have abundant forams
This section of the core has many cracks
G.

544-761
CALC OOZE
Brown (10 YR 5/3)
Unit begins in light brownish gray and changes through grayish brown (10 YR 5/2) to brown and then back through to light brownish gray at 743-761 cm.
Firm lutite with few forams; light brownish gray areas have abundant forams
G.

761-789
CALC OOZE
Yellowish brown (10 YR 5/6)
Scattered dark gray brown mottles; unit changes to brown (10 YR 5/3) for rest of core
Firm lutite with scattered forams

789-867
CALC OOZE
Flow in

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 72 PC

Expedition 110 Station No. 47

Leg No. 2 Total Core Length 967 cm

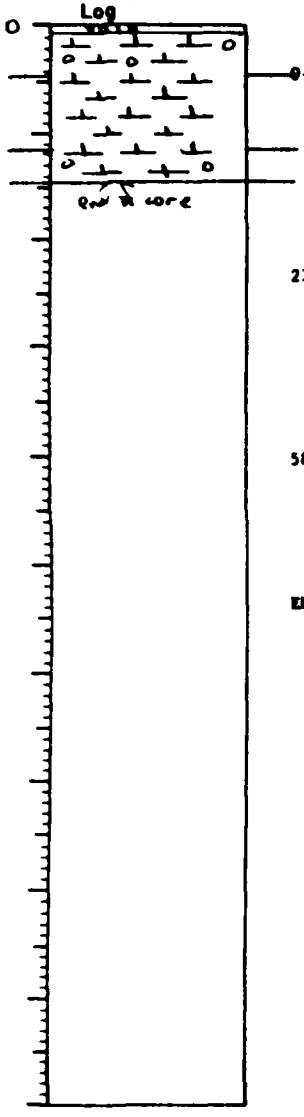
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE	5				30	5	60						
36	CALC OOZE	2	2			30	6	60						
50	CALC OOZE	3	2			30	5	60			TR			
90	CALC OOZE	2	2			36	10	50			TR			
140	CALC OOZE	3	1			30	16	50						
162	CALC OOZE	2	5			23	20	50						
208	CALC OOZE	TR	2			23	35	40						
230	CALC OOZE		5			40	10	45						
267	CALC OOZE	5	2			20	10	63						
285	CALC OOZE	2	1			44	5	48						
370	CALC OOZE	TR	10			25	5	60						
410	CALC OOZE	TR	2			15	3	80	TR		TR			
460	CALC OOZE	TR	1			20	15	64						
520	CALC OOZE	2	TR			53	5	40						
560	CALC OOZE	TR				45	5	50						
658	CALC OOZE	1				40	10	59			TR			
720	CALC OOZE	2	3			20	5	70						
785	CALC OOZE	3	TR			40	5	52						

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise WO Leg 2 Sta. 47 Core No 72PG
Total Length 74 cm. Lat. 9°22.0' N Long. 93°40.2' W Depth 3199 m
Core condition good Date Described 4/30/89 by Schneider
Physiographic location Cocos ridge

Lithologic Log



Detailed Description

0-23
CALC OOZE
Light yellowish brown (10 YR 6/4)
Scattered common brown (10 YR 5/3) mottles 4-17 cm.
Silty lutite with common forams
First 4 cm. of core empty due to settling of material
G.

23-58
CALC OOZE
Yellowish brown (10 YR 5/6)
Unit grades from light yellowish brown to yellowish brown over 23-43 cm.; dark brown (10 YR 3/3) streaks common 43-58 cm.
Moist lutite with few scattered forams
G.

58-74
CALC OOZE
Brownish yellow (10 YR 6/6)
Faint - scattered dark brown streaks
Smooth lutite with few forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 72 PG
Expedition 110 Station No. 47
Leg No. 2 Total Core Length 74 cm

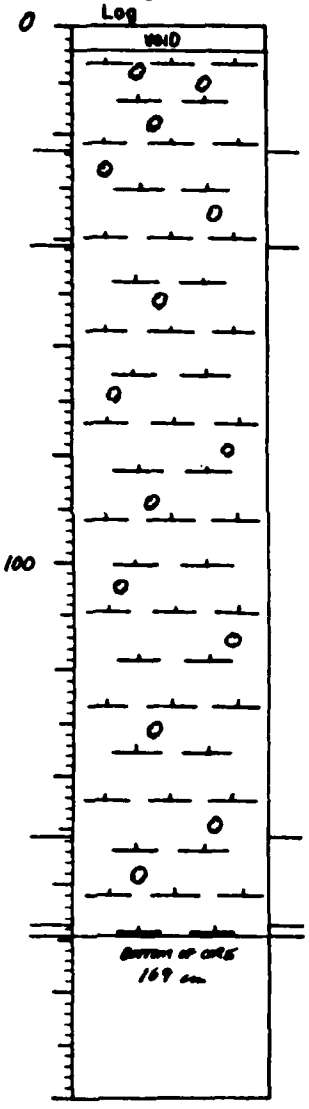
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	5			21	30	41	2		1			
21	CALC OOZE	TR	10			30	10	50			TR			
31	CALC OOZE		3			35	20	42						
38	CALC OOZE	TR	3			29	30	38			TR			
44	CALC OOZE	2	10			43	10	35						
55	CALC OOZE	5	5			41	5	44						
63	CALC OOZE	2	3			46	7	42						

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 48 Core No 73 GGC
Total Length 169 cm. Lat. 9°21.30 N Long. 43°29.20 W Depth 2952 m corr.
Core condition EXCELLENT Date Described 15 MAR 1980 by P. MILLS
Physiographic location OSAKA REE

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation; few 10 YR 4/3 dark brown mottles below 15 cm.
Silty lutite with forams grading from abundant to common
Shrinkage void 0-4 cm.

23-41
CALC OOZE
10 YR 5/3 brown
Scattered 10 YR 6/3 pale brown and 10 YR 5/4 yellowish brown mottles
Slightly silty lutite with common forams
Few 10 YR 5/6 yellowish brown laminations at 38-41 cm.; convex upward

41-151
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown but darker near base
Scattered 10 YR 6/1 gray and 10 YR 5/3 brown
Slightly silty lutite with common forams
Unit is marbled near base; thin 2.5 Y 5/2 grayish brown lamination at unit base
S, I 5°.

151-167
CALC OOZE
2.5 Y 6/3
Scattered 2.5 Y 5/2 grayish brown mottles
Slightly silty lutite with common forams
S.

167-169
CALC OOZE
10 YR 5/3 brown
Moist lutite with scattered forams
Few 10 YR 4/2 laminations at top of unit

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

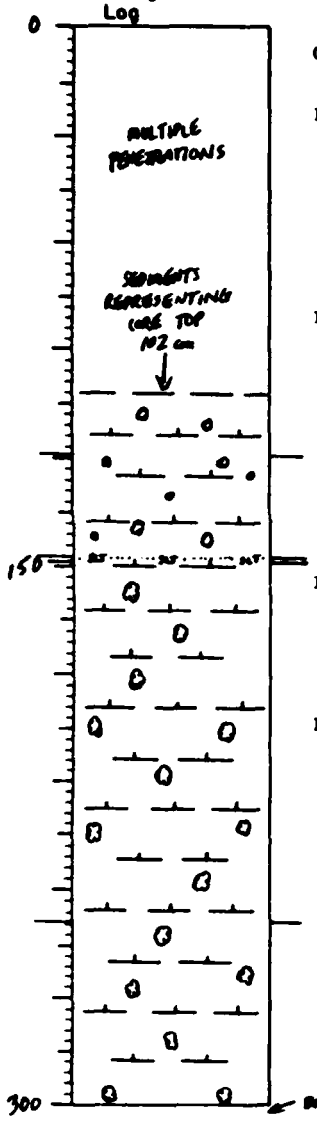
Ship: KNR Core No. 73 GGC
Expedition 110 Station No. 48
Leg No. 2 Total Core Length 169 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		4			37	20	30	3		4	2		TR
17	CALC OOZE W/ MICRONODULES		15			34	10	40			1			
32	CALC OOZE	3	2			55	8	30	TR		2			
80	CALC OOZE	1	2			49	7	40			1			
130	CALC OOZE	1	1			37	5	55			1			
160	CALC OOZE	1	3			60	7	27			2			
168	CALC OOZE	1	4			55	12	26			2			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 49 Core No 74 GGC
Total Length 302 cm. Lat. 4°N. 80' N Long. 48°25.40' W Depth 2907 m corr.
Core condition EXCELLENT Date Described 1 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-102
Multiple penetrations

102-119
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common
Some pteropods visible in top 8-10 cm.
G.

119-147
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Faint 10 YR 6/3 pale brown mottling above 123 cm ; scattered 2.5 Y 5/2 grayish brown mottling below 135 cm.
Slightly silty lutite with common forams
Dark laminations are concentrated in region 123-131 cm.; estimate unit has undergone 20-30 % compaction due to weight of overlying sediment
S.

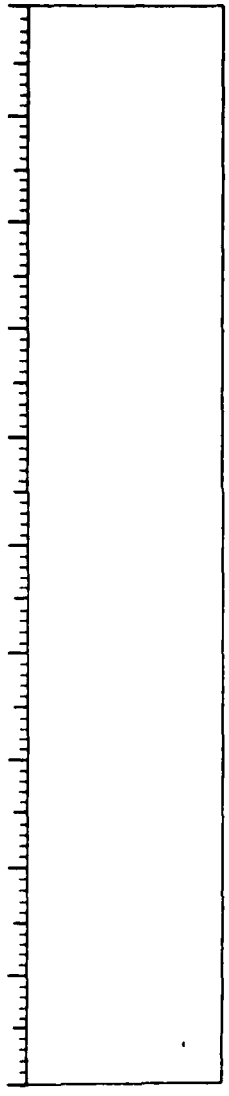
147-148
CALC OOZE/MICRONODULES
10 YR 5/6 yellowish brown
Silty lutite with very silty, slightly lithified contacts
S.

148-248
CALC OOZE
10 YR 5/3 brown
Extensive 10 YR 5/2 grayish brown and 10 YR 4/2 dark grayish brown mottling throughout.
Slightly silty lutite with common forams
Few horizontal laminations tainted with 10 YR 5/6 yellowish brown at 178-179 cm.
C.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 49 Core No 74 GGC

Lithologic Log



Detailed Description

248-302
CALC OOZE
2.5 Y 6/3 light yellowish brown/gray
2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottles common to extensive throughout
Slightly silty lutite with common forams
10 YR 5/6 yellowish brown lamination at 274 cm

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 74 GGC

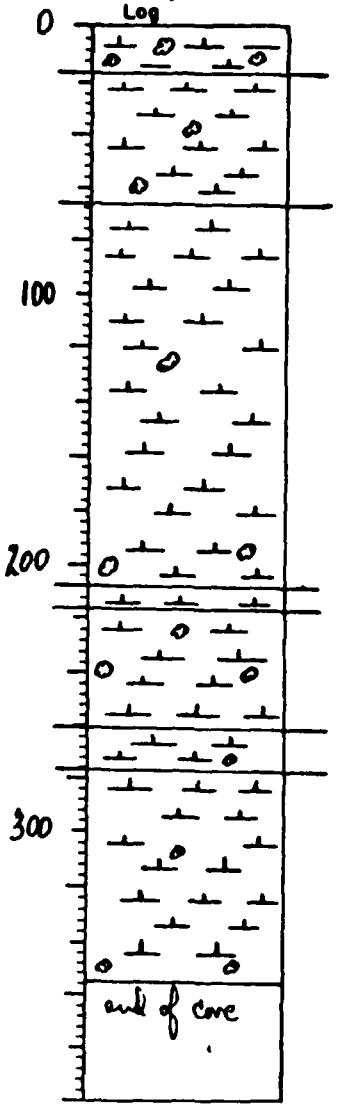
Expedition 110 Station No. 49

Leg No. 2 Total Core Length 302 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
103	CALC OOZE	1	3			26	30	30	4		3	1		2
113	CALC OOZE	TR	3			29	20	40	2		5			1
130	CALC OOZE W/ MICRONODULES	8	15			35	5	36			1			
147	CALC OOZE / MICRONODULES	6	30			30	8	25			1			
200	CALC OOZE	3	4			40	7	45		TR	1			
270	CALC OOZE	4	3			45	5	42			1			
301	CALC OOZE	3	4			50	5	37			1			

VISUAL CORE DESCRIPTION Page 1 of 2

Ship Knorr Cruise 110 Leg 2 Sta. 49 Core No 75 GGC
Total Length 302 cm. Lat. 4°20.51'N Long 41°24.52'W Depth 3063 m
Core condition excellent Date Described 4/3/88 by DAVIS
Physiographic location Ceara Rise
Lithologic Log



Detailed Description

0-16
HIGHLY CALC CLAY
10YR 7/4 very pale brown
common mottling
lutite with abundant forams
G

16-67
CALC OOZE
10YR 5/6 yellowish brown
scattered mottling
lutite with common forams
heavily intercalated from approx. 30-50 cm.
G

67-208
CALC OOZE
10YR 6/4 light yellowish brown
scattered to common motting in last 10 cms.
lutite with common forams
G

208-217
CALC OOZE
10YR 7/6 yellow
scattered mottling down to 212 cms.
lutite with abundant forams
G

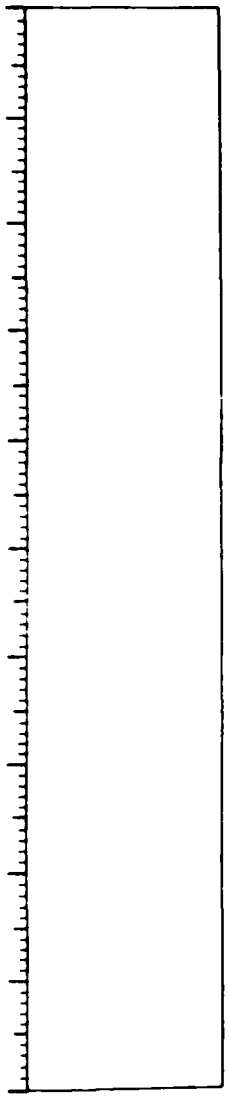
217-261
CALC OOZE
10YR 6/4 light yellowish brown
scattered, but common mottling from 228-238 cms.
lutite with common forams
slight color variations throughout section; three distinct 10YR 5/8 yellowish brown thin (<0.5 cm.) ice-rafted layers at 256,257,258 cms.
G

261-277
CALC OOZE
10YR 6/4 light yellowish brown
scattered mottling
lutite with abundant forams (Pteropods?)
G

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta 49 Core No 75GGC

Lithologic Log



Detailed Description

277-355

CALC OOZE
10YR 5/4 yellowish brown
faint mottling, except for bottom 7 cm., which is commonly mottled
lutite with common forams
foram-rich "pods" at approx. 279-280, 282-283 cm.; dark intercalation at 292-293 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 75GGC

Expedition 110 Station No. 49

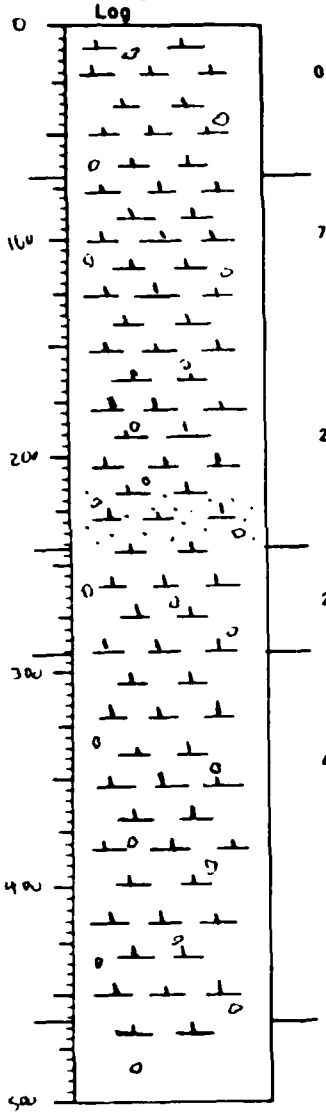
Leg No. 2 Total Core Length 355 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12 cm	highly calc clay	Tr	1			70	5	9			15			Tr
47	calc ooze	1	3			65	6	10			15			
100	" "	Tr	2			68	5	8			17			
180	" "	Tr	2			65	7	8			18			
215	" "	Tr	1			60	12	9			18			
246	" "	Tr	2			62	8	13			15			
267	" "	Tr	1			68	6	15			10			
320	" "	Tr	2			65	8	12			13			

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 49 Core No 76 PC
Total Length 1021 cm. Lat. 4° 42.4' N Long 43° 26.6' W Depth 3199 m
Core condition GOOD Date Described 6/26/89 by Schneider
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-70
CALC OOZE
Yellowish brown (10 YR 5/4)
Scattered dark gray (10 YR 4/1) mottles; top cm of core is very pale brown (10 YR 7/3)
Smooth lutite with few scattered forams
G.

70-244
CALC OOZE
Pale brown (10 YR 6/3)
Faint dark gray mottles throughout core goes through shades of yellowish brown (10 YR 5/4) at 95-120 and 167-220 cm.
Smooth lutite; abundant forams 70-120 cm;, 140-166 cm.; silty lutite 206-244 cm.
S, I 10°.

244-292
CALC OOZE
Yellowish brown (10 YR 5/8)
Faint dark gray mottles throughout; unit ends with light olive brown (2.5 Y 5/4) streak
Smooth firm lutite with few forams
S, H.

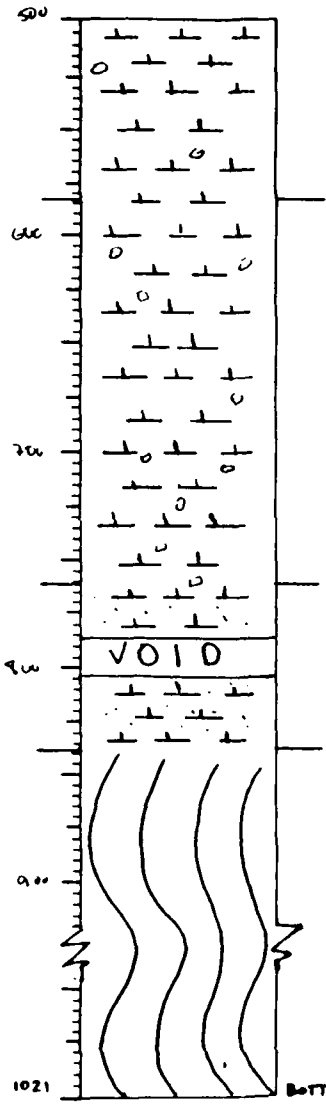
292-461
CALC OOZE
Brown (10 YR 5/3)
Scattered common dark gray mottles throughout; some faint light olive streaks
Smooth lutite with scattered forams
G.

461-584
CALC OOZE
Alternating shades of pale brown (10 YR 6/3) and yellowish brown (10 YR 5/4)
Yellowish brown sections are 478-497, 518-547 & 568-584 cm.; faint dark gray mottles throughout unit
Slightly silty lutite with abundant forams, yellowish brown sections are smooth with scattered forams
G.

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 49 Core No 76 PC

Lithologic Log



Detailed Description

584-771
CALC OOZE
Grayish brown (10 YR 5/2)
Scattered dark gray mottling, especially 626-641 cm., 703-711 cm. and 737-742 cm.
Smooth lutite with very few forams
S, concave.

771-838
CALC OOZE
Pale brown (10 YR 6/3) into yellowish brown (10 YR 5/6)
The color of the unit changes around 808 cm , there are faint streaks of light olive brown at 810 & 830 cm., and the base 6 cm of the unit is pale brown again
Slightly silty-silty lutite with common forams, pale brown sections have abundant forams
There is a large void in the core between 786 and 804 cm., probably due to problems in the coring process; after this unit the remainder of the core is flow in.
G.

838-1021
FLOW IN.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 76 PC

Expedition 110 Station No. 49

Leg No. 2 Total Core Length 1021 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	2	5			35	8	50			TR			
55	CALC OOZE	2	3			35	5	55						
80	CALC OOZE	TR	2			30	23	45			TR			
150	CALC OOZE	2	1			32	5	60						
218	CALC OOZE	2	2			20	45	31			TR			
244	CALC OOZE	3	2			35	10	50						
270	CALC OOZE	TR	2			35	5	58						
297	CALC OOZE	3	5			35	10	47						
356	CALC OOZE	5	5			40	5	50						
441	CALC OOZE	TR	1			30	15	54	TR					
460	CALC OOZE	TR	2			35	5	58						
473	CALC OOZE	1	2			15	5	77						
545	CALC OOZE	1	1			40	5	52						
580	CALC OOZE	TR	2			15	3	80						
595	CALC OOZE	TR	2			40	3	55						
677	CALC OOZE	TR	2			15	3	80						
837	CALC OOZE	1	4			30	3	62						

VISUAL CORE DESCRIPTION

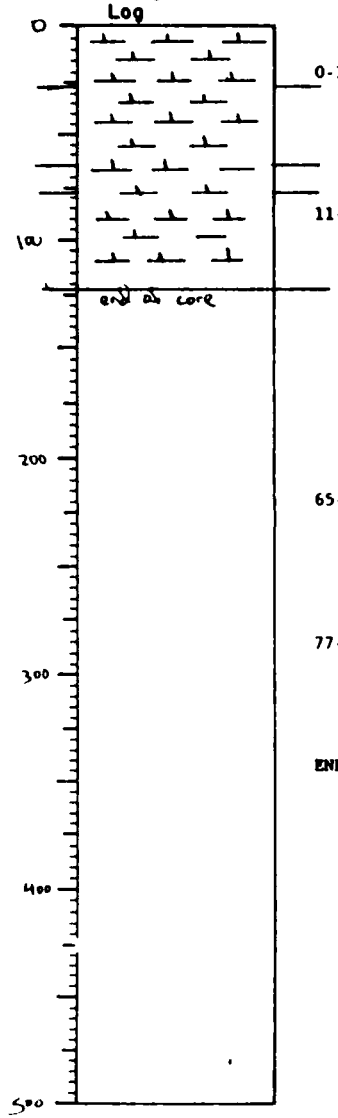
Ship Knorr Cruise 111 Leg 2 Sta. 49 Core No 76PC

Total Length 124 cm. Lat. 4° 42.6 N Long. 43° 26.6 W Depth 3199 m.

Core condition GOOD Date Described 6/30/79 by Schneider

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-11

CALC OOZE
Pale Brown (10 YR 6/3)
Silty lutite with common forams
First 5 cm. of core void due to settling
G.

11-65

CALC OOZE
Light yellowish brown (10 YR 6/4)
Unit grades from light yellowish brown to yellowish brown (10 YR 5/6) from 11-25 cm. to brownish yellow (10 YR 6/6) from 25-38 cm. and back to yellowish brown; extensive dark brown (10 YR 3/3) streaks from 30-39 cm. Bottom cm. of unit has dark yellowish brown (10 YR 4/6) streaks.
Smooth lutite with few forams; bottom cm. of unit has silty, clayish consistency
I, 20°.

65-77

CALC OOZE
Brown (10 YR 5/3)
Faint-common grayish brown (10 YR 5/2) streaks
Smooth, moist lutite
G.

77-124

The remainder of the core repeats the above 3 unit descriptions, suggesting that the core penetrated twice or was disturbed during coring

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 76 PG

Expedition 110 Station No. 46

Leg No. 2 Total Core Length 124 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Sil flag
8	CALC OOZE	2				42	13	43	TR					TR	
16	CALC OOZE	2	1			38	20	39							
22	CALC OOZE	TR	2			28	20	50							
31	CALC OOZE		10			28	5	52							
45	CALC OOZE		TR			20	5	75							
60	CALC OOZE	1	TR			20	4	75							
65	CALC OOZE			TR		20	5	75							
74	CALC OOZE	TR				20	10	70							

VISUAL CORE DESCRIPTION

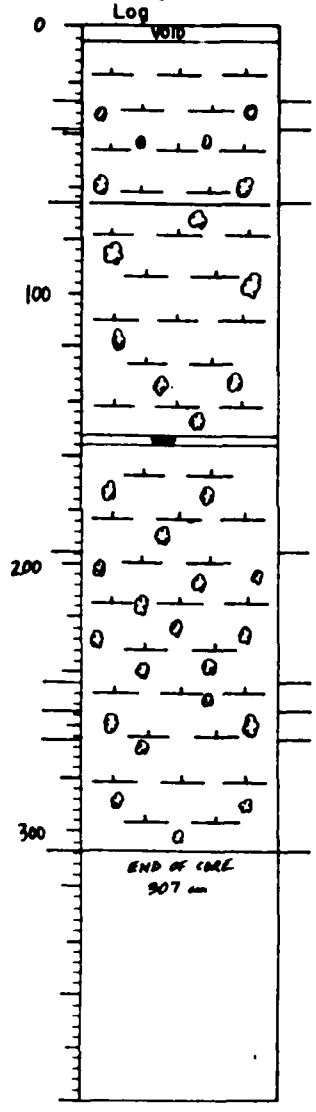
Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 79 GGC

Total Length 307 cm. Lat. 4° 19.62' N Long 49° 23.65 W Depth 3088 m corr.

Core condition EXCELLENT Date Described 2 MAR 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-27

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Silty lutite with abundant forams grading to common
Shrinkage void 0-5 cm.
G.

27-38

CALC OOZE
10 YR 5/4 yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Faint mottling with intercalation
Slightly silty lutite with common forams
Dark laminations concentrated in regions 27-30 cm and 32-36 cm.
G.

38-66

CALC OOZE
10 YR 5/4 yellowish brown with 10 YR 4/2 dark grayish brown laminations
Few faint 2.5 Y 5/2 grayish brown mottles becoming larger and scattered below 55 cm.
Slightly silty lutite with common forams
S, I 10°.

66

MANGANESE PAVEMENT
10 YR 3/2 very dark grayish brown
Lithified layer with scattered forams cemented to upper surface
Wafer thin (approx 1 mm.) lithified lamination manganese oxide?
S.

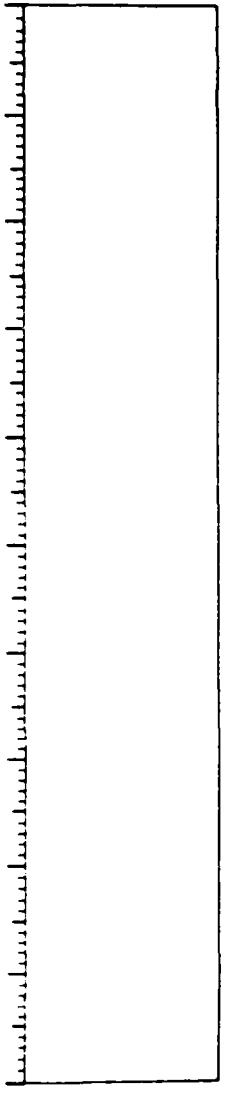
66-195

CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Scattered large 2.5 Y 5/2 grayish brown mottles becoming smaller but more extensive below 115 cm.; scattered 2.5 Y 6/2 light brownish gray mottles throughout
Slightly silty lutite with common forams
Few horizontal laminations tinged with 10 YR 5/6 yellowish brown at 96, 117, 132 cm ; shrinkage void 153-156 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 77 GGC

Lithologic Log



Detailed Description

195-244
CALC OOZE
10 YR 6/4 light yellowish brown
Extensive 2.5 Y 5/2 grayish brown mottling; scattered 10 YR 4/2 dark grayish brown mottles below 225 cm.
Smooth lutite with scattered forams
Few wavy mottles /burrows from 228-233 cm. and 239-241 cm.; few laminations tinged with 10 YR 5/6 yellowish brown at 206 and 216-218 cm.
G, mottled.

244-254
CALC OOZE
10 YR 5/3 brown
Faint 10 YR 6/4 light yellowish brown mottles
Smooth lutite with scattered forams
G, mottled.

254-265
CALC OOZE
2.5 Y 7/2 light gray
Common 10 YR 5/2 grayish brown mottles; few large
Slightly silty lutite with common forams
Elongated horizontal burrow at base of unit

265-307
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Few 2.5 Y 7/2 light gray mottles near top of unit, scattered 2.5 Y 5/2 grayish brown mottling below 273 cm.
Slightly silty lutite with common forams
Large 2.5 Y 5/2 grayish brown mottle with black flecks from 285-289 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 77 GGC

Expedition 110 Station No. 50

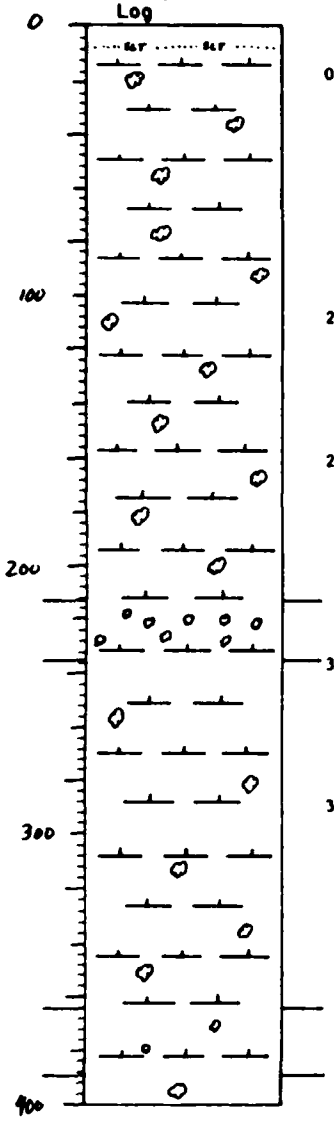
Leg No. 2 Total Core Length 307 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)														
		Inorganic Material					Biogenous Material									
		Silt & Sand					Calcareous					Siliceous				
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates	
6	CALC OOZE		2			25	30	35	2	TR	4	TR		2	TR	
18	CALC OOZE	TR	8			34	15	40	TR		3			TR		
32	CALC OOZE	3	15			31	5	45			1					
55	CALC OOZE	5	10			36	3	45			1					
130	CALC OOZE	1	6			45	7	40			1					
220	CALC OOZE	3	4			44	3	45			1					
250	CALC OOZE	1	3			55	4	36		TR	1					
260	CALC OOZE	TR	1			48	4	45			2					
290	CALC OOZE	TR	4			43	5	45			3					
305	CALC OOZE	TR	2			35	20	35			3					

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 78 PC
Total Length 1078 cm. Lat. 4°19.76 'N Long 43°23.65 W Depth 3088 m corr.
Core condition GOOD Date Described 3 APRIL 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-213
CALC OOZE
10 YR 5/4 yellowish brown
Common to abundant 2.5 Y 5/2 grayish brown mottles throughout; few 10 YR 4/2 dark grayish brown mottles 150-162 cm.
Slightly silty lutite with common forams
Thin 7.5 YR 4/6 strong brown semi-lithified lamination 7 cm.; few faint 10 YR 5/6 yellowish brown laminations 31, 43 cm.
G, mottled.

213-235
CALC OOZE
10 YR 6.5/2 light brownish gray
Abundant small 10 YR 5/2 grayish brown mottles
Silty lutite with abundant forams
G, mottled.

235-364
CALC OOZE
10 YR 5/4 yellowish brown
Scattered 10 YR 5/2 grayish brown mottles
Slightly silty lutite with common forams becoming abundant from 160-240 cm.
10 YR 5/6 yellowish brown laminations at 254, 361-364 cm.
G.

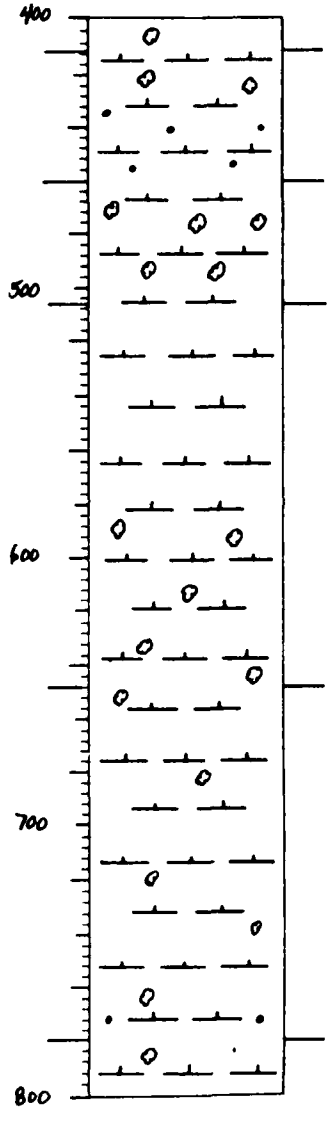
364-389
CALC OOZE
10 YR 5/2 grading to 10 YR 5/3 brown
Faint 10 YR 5/1 gray mottles
Silty lutite with abundant forams
G.

389-411
CALC OOZE
10 YR 6.5/2 light brownish gray
Common 10 YR 6/3 pale brown mottles
Silty lutite with abundant forams
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 78PC

Lithologic Log



Detailed Description

411-460
CALC OOZE
7.5 YR 5/5 brown grading to 10 YR 5/3 brown
Common 10 YR 6/2 light brownish gray mottles above 425 cm.
Slightly silty lutite with common forams
Common micronodules from 430-455 cm., 10 YR 4/4 dark yellowish brown lamination 457 cm.
G.

460-506
CALC OOZE
10 YR 5/2 grayish brown
Extensive 10 YR 4/1 dark gray mottling
Slightly silty lutite with scattered forams
10 YR 5/6 yellowish brown laminations at 462-463 cm.
G, mottled.

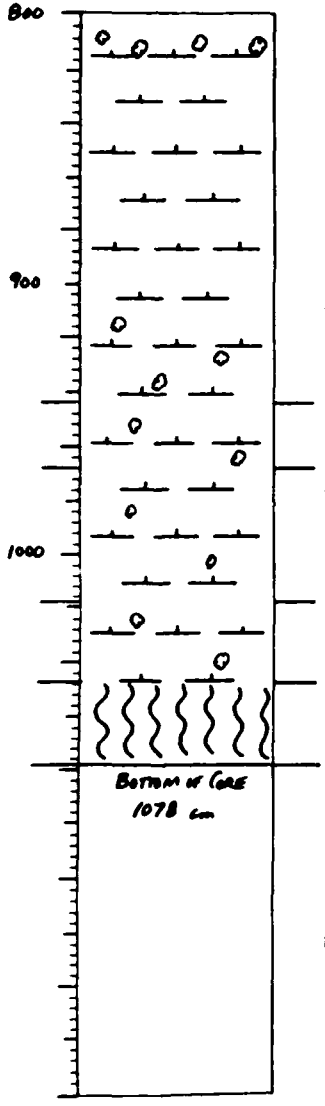
506-648
CALC OOZE
Alternately 10 YR 5/2 grayish brown and 10 YR 5/4 yellowish brown
Common 2.5 Y 5/2 grayish brown mottles below 580 cm.
Silty lutite with common forams
10 YR 5/6 yellowish brown laminations at 582, 607 cm.
G, mottled.

648-780
CALC OOZE
10 YR 6/3 pale brown and 10 YR 6.5 /2 light brownish gray
Common 10 YR 4/1 dark gray mottles above 657 cm , scattered intercalations throughout
Silty lutite with common forams becoming extensive in 10 YR 6.5/2 regions
10 YR 5/6 yellowish brown laminations at 712, 759-765 cm.; scattered micronodules below 770 cm
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 78 PC

Lithologic Log



Detailed Description

780-944
CALC OOZE
10 YR 5/2 grayish brown with slight color variations becoming 10 YR 6/2 light brownish gray
Scattered 10 YR 4/1 dark gray mottles above 840 cm. except extensive from 805-820 cm.; scattered 10 YR 5/2 and 10 YR 6/1 gray mottles below 910 cm.
Silty lutite with common forams
7.5 YR 5/6 strong brown mottle 896 cm.
G, mottled.

944-968
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 6/2 light brownish gray mottles
Silty lutite with abundant forams
5 Y 2.5/1 black, convex upward lamination or burrow at 948 cm.
G.

968-1018
CALC OOZE
10 YR 5/4 yellowish brown except 10 YR 6/4 light yellowish brown 977-981 cm.
Faint 10 YR 6/2 light brownish gray mottles
Silty lutite with common forams
10 YR 5/6 yellowish brown laminations 982, 997, 1014-1018 cm.
G.

1018-1047
CALC OOZE
10 YR 5/2 grayish brown
Scattered 10 YR 5/1 gray mottles
Slightly silty lutite with common forams
Region 1031-1032 cm. tinged with 10 YR 5/6 yellowish brown

1047-1078
FLOW IN

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 78 PC

Expedition 110 Station No. 50

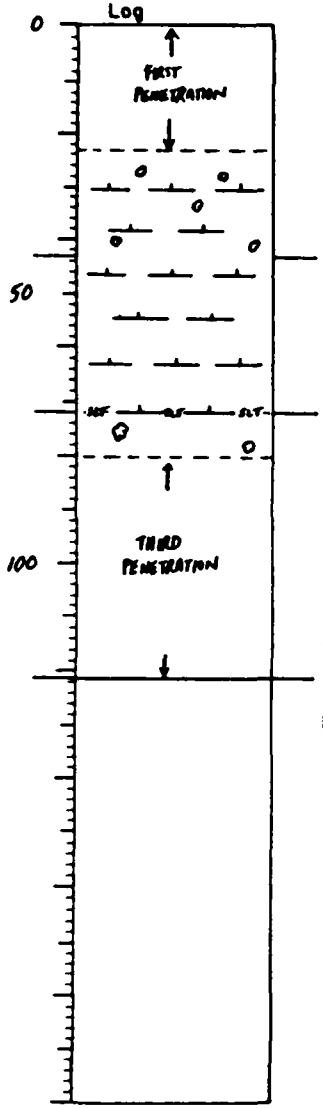
Leg No. 2 Total Core Length 1178 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	3			30	30	32	2		3			TR
100	CALC OOZE	2	3			47	10	40	TR		2			
225	CALC OOZE	1	4			45	15	32			3			
320	CALC OOZE	2	1			44	10	40			3			
380	CALC OOZE	1	5			54	12	25			3			
400	CALC OOZE	1	2			45	20	28			4			
440	CALC OOZE	5	10			33	10	40			2			
490	CALC OOZE	8	4			57	8	20	1		2			
580	CALC OOZE	10	6			45	7	31	1					
680	CALC OOZE	2	3			40	10	44			1			
700	CALC OOZE	1	1			33	25	35	1		4	TR		
847	CALC OOZE	5	3			36	5	50			1			
955	CALC OOZE	2	1			18	15	60			4			
1000	CALC OOZE	3	10			27	13	35			2			
1035	CALC OOZE	3	7			44	5	40			1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 50 Core No 78 PG
Total Length 121 cm. Lat. 4°19.76' N Long. 43°23.65' W Depth 3088 m corr.
Core condition GOOD Date Described 3 APRIL 1980 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-22
FIRST PENETRATION

22-43
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common below 33 cm.
G.

43-72
CALC OOZE
10 YR 5/4 yellowish brown with many 10 YR 3/2 and 4/2 dark grayish brown laminations
Slightly silty lutite with common forams
Dark laminations most heavily concentrated from 43-50 cm.
S.

72-84
CALC OOZE
10 YR 5/3 brown
Scattered 10 YR 5/2 grayish brown mottles
Thin 10 YR 5/6 silty lamination slightly lithified at 72 cm.

84-121
THIRD PENETRATION

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

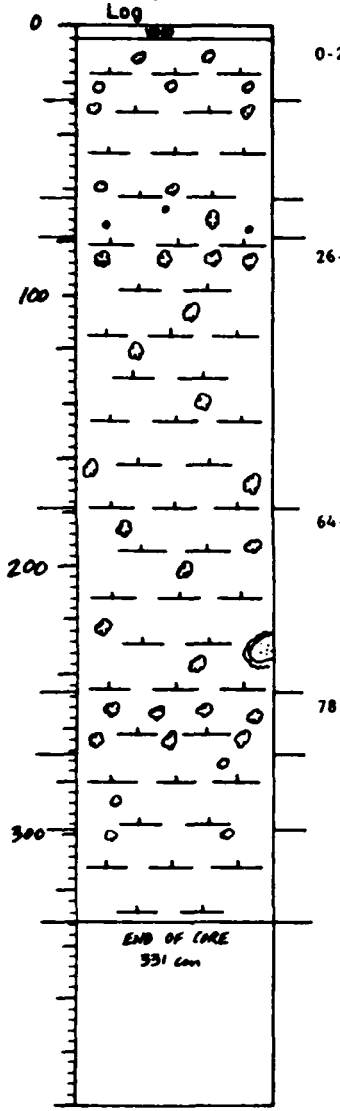
Ship: KNR Core No. 78 PG
Expedition 110 Station No. 50
Leg No. 2 Total Core Length 121 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
23	CALC OOZE		3			24	35	30	1		5	2		TR	
35	CALC OOZE	TR	4			37	10	45			4	TR			
60	CALC OOZE	1	8			40	4	45			2				
80	CALC OOZE	3	5			45	6	40	TR		1				

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 51 Core No 79 GGC
Total Length 331 cm. Lat. 4°19.50' N Long. 43°33.20' W Depth 2021 m corr.
Core condition EXCELLENT Date Described 5 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-26
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-4 cm.
G.

26-64
CALC OOZE
10 YR 6/4 yellowish brown grading to 10 YR 5/3 brown
Few 10 YR 6/3 pale brown mottles near top of unit; few 2.5 Y 5/2 grayish brown mottles near unit base
Slightly silty lutite with common forams
Unit contains many 10 YR 4/2 dark grayish brown laminations most concentrated in regions 26-46 cm. and 61-64 cm.
G.

64-78
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown
Scattered 2.5 Y 5/2 grayish brown mottling
Slightly silty lutite with common forams
Thin lamination tinged with 10 YR 5/6 yellowish brown
G.

78-178
CALC OOZE
2.5 Y 6/3 light yellowish brown/gray grading to 2.5 Y 5/2 grayish brown
Extensive 2.5 Y 5/2 grayish brown and 2.5 Y N6/ gray mottling becoming common below 95 cm
Slightly silty lutite with common forams
Large moist 2.5 Y 5/2 grayish brown burrow transecting core at 115 cm.; scattered micronodules near unit base
S, I 30°.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 51 Core No 79 GGC

Lithologic Log

Detailed Description

178-246
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown grading to 10 YR 5/4 yellowish brown but 10 YR 5/3 near unit base
Common 2.5 Y 5/2 grayish brown and 10 YR 4/2 dark grayish brown mottles throughout; few 10 YR 6/1 gray mottles
Smooth lutite with scattered forams
Very large 2.5 Y 5/2 grayish brown burrow with black flecks from 227-234 cm.
G, mottled.

246-269
CALC OOZE
2.5 Y 6.5/2 light brownish gray
Extensive 10 YR 5/3 brown mottles/burrows
Slightly silty lutite with common forams
G, mottled.

269-298
CALC OOZE
10 YR 5/3 brown grading to 10 YR 5/2 grayish brown
Faint 10 YR 4/2 dark grayish brown mottling
Slightly silty lutite with common forams
Unit becomes 2.5 Y 5/2 near base
S, wavy.

298-331
CALC OOZE
2.5 Y 6/3 yellowish gray/brown
Faint 2.5 Y 6/2 light brownish gray mottles near top of unit
Slightly silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 79 GGC

Expedition 110 Station No. 51

Leg No. 2 Total Core Length 331 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	3			33	20	35	4		5	TR		TR
20	CALC OOZE	TR	4			40	20	39	1		4			TR
45	CALC OOZE	3	10			40	10	35			2			
72	CALC OOZE W/ MICRONODULES	2	15			32	4	45			2			
100	CALC OOZE	2	4			37	15	40			2			
155	CALC OOZE	3	5			45	7	39			1			
220	CALC OOZE	2	8			34	10	45			1			
260	CALC OOZE	3	3			40	20	30			4			
285	CALC OOZE	1	3			45	8	39			4			
325	CALC OOZE	8	5			50	7	29			1			

VISUAL CORE DESCRIPTION

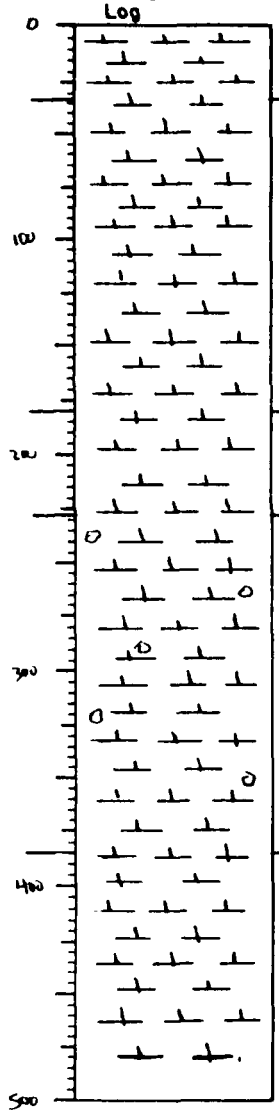
Ship Knorr Cruise 110 Leg 2 Sta. 51 Core No 30 PC

Total Length 917 cm. Lat. 4° 21.2 N Long 43° 26.7 W Depth 2826 M

Core condition good Date Described 4/30/89 by Schneider

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-33
CALC OOZE
Yellowish brown (10 YR 5/4)
Faint (10 YR 4/1) dark gray streaks
Smooth lutite with scattered forams
G.

33-180
CALC OOZE
Brown (10 YR 5/3)
Unit fades gradually from brown to very pale brown (10 YR 7/3) 70-94 cm. & 160-171 cm.; faint dark gray streaks throughout; unit ends in dark brown (10 YR 4/3) streak
Smooth lutite with few forams; scattered forams 70-94 cm; silty lutite 148-180 cm.
S.

180-228
CALC OOZE
Yellowish brown (10 YR 5/4)
Common light yellowish brown (7.5 Y 6/4) streaks, top cm. of unit is pale brown (10 YR 6/3), bottom is light olive brown (2.5 Y 5/4)
Smooth lutite with few forams
G.

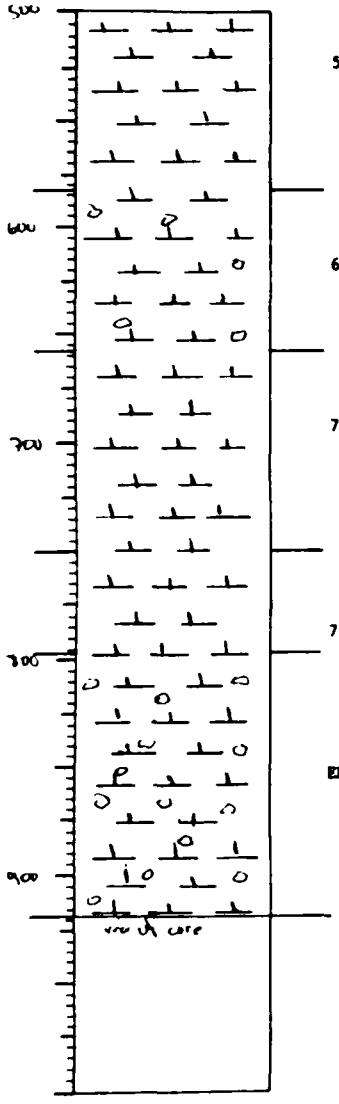
228-385
CALC OOZE
Light olive brown (2.5 Y 5/4)
Common yellowish brown streaks 274-284 cm., unit fades gradually to pale brown(10 YR 6/3) 340-385 cm.; faint dark gray mottles throughout
Smooth, firm lutite with very few forams
G.

385-584
CALC OOZE
Brown (10 YR 5/3)
Unit contains 3 very pale brown (10 YR 7/4) sections at 385-404, 438-450 and 495-506 cm interspersed with brown and pale brown, unit changes gradually to light yellowish brown (2.5 Y 6/4) 520-584 cm.
Smooth, firm lutite; very pale brown sections have abundant forams
G.

VISUAL CORE DESCRIPTION

Ship Knorr Cruise WD Leg 2 Sta. 51 Core No. 80PC

Lithologic Log



Detailed Description

584-657
CALC OOZE
Brown (10 YR 5/3)
Unit changes from grayish brown (10 YR 5/2) 584-606 cm. through brown to pale brown (10 YR 6/3) 621-657 cm.; common dark gray mottles 584-606 cm.
Smooth, firm lutite with very few forams
G.

657-750
CALC OOZE
Pale brown (10 YR 6/3)
Unit fades into very pale brown (10 YR 8/3) at 695-706 & 726-733 cm.
Smooth, firm lutite with very few forams
G.

750-798
CALC OOZE
Very pale brown (10 YR 7/3) into yellowish brown (10 YR 5/6)
Unit changes color at 785 cm.; several dark gray streaks at 777-783 & 789 cm. & at end of unit
Silty lutite with abundant forams; yellowish brown section is smooth with few forams
G.

798-917
CALC OOZE
Light olive brown (2.5 Y 5/4)
Unit changes gradually to brown (10 YR 5/3) at 850 cm.; heavy dark gray mottling 798-850 cm.
Smooth lutite with scattered forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 80 PC

Expedition 110 Station No. 51

Leg No. 2 Total Core Length 917 cm

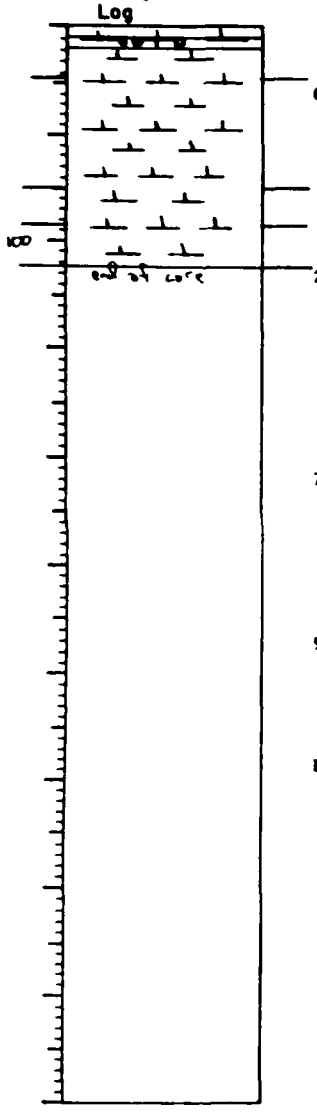
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
15	CALC OOZE	1	2			40	7	50			TR				
60	CALC OOZE	5	2			30	10	53							
166	CALC OOZE	TR	TR			15	50	35	TR						
187	CALC OOZE	1	2			10	50	37			TR				
213	CALC OOZE	3	3			37	7	50			TR				
244	CALC OOZE	3	3			40	10	44							
350	CALC OOZE	TR	TR			40	5	55			TR				
396	CALC OOZE	TR	1			20	20	59							
502	CALC OOZE	TR	1			34	15	50			TR				
582	CALC OOZE	TR				30	5	65							
591	CALC OOZE	2	2			20	5	71							
690	CALC OOZE	3	2			35	5	55			TR				
740	CALC OOZE	2	2			46	20	30							
757	CALC OOZE	1	2			25	15	57			TR				
797	CALC OOZE	TR	3			30	10	57							
803	CALC OOZE	2	3			25	15	55			TR				
888	CALC OOZE	1	1			18	10	60							

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 51 Core No 80 PG
Total Length 111 cm. Lat. 4° 21.2 N Long. 43° 26.7 W Depth 2826
Core condition Good Date Described 6/30/89 by Schneider
Physiographic location Kane Rise

Lithologic Log



Detailed Description

0-24

CALC OOZE
Pale brown (10 YR 6/3)
Top 8 cm. of core is light brownish gray (10 YR 6/2) which fades into pale brown
Silty lutite with abundant forams
Void in core at 2-7 cm.
G.

24-75

CALC OOZE
Yellowish brown (10 YR 5/6)
Common-extensive dark gray (10 YR 4/1) streaks 34-48 cm.; unit is light yellowish brown (10 YR 4/1) streaks 34-48 cm.; unit is light yellowish brown (10 YR 6/4) 24-32 cm.
Smooth, moist lutite with few forams.
S.

75-91

CALC OOZE
Light olive brown (2.5 N 5/4)
Few faint gray (2.5 Y N5/) streaks at 75, 77, and 82 cm.
Smooth, moist lutite with few forams
S.

91-111

The rest of the core is identical to the first two units of the core, suggesting that the core penetrated more than once.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 80 PG
Expedition 110 Station No. 51
Leg No. 2 Total Core Length 111 cm

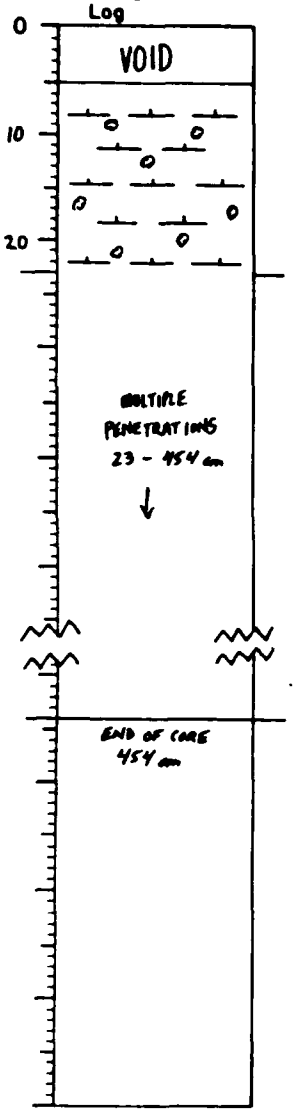
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
9	CALC OOZE	3				50	15	20	2		10		TR		
20	CALC OOZE	TR				22	50	23	TR		5			TR	
31	CALC OOZE	2				28	40	25			5	TR			
42	CALC OOZE	5	10			38	10	37			TR				
55	CALC OOZE	2	TR			33	10	55			TR				
82	CALC OOZE	TR	TR			30	15	55			TR				
85	CALC OOZE	TR	1			30	15	52	2		TR				
92	CALC OOZE		TR			20	40	39	1						
96	CALC OOZE	TR				40	10	50			TR			TR	
103	CALC OOZE	TR				25	10	65			TR				
106	CALC OOZE	TR	2			25	10	65			TR				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 51 Core No 81GGC
Total Length 454 cm. Lat. 4°21.40'N Long. 43°26.20'W Depth 2881 m corr.
Core condition EXCELLENT Date Described 6 MAR 1990 by P. Mass
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-5 cm.

23-454
MULTIPLE PENETRATIONS

Note: This core contains 12+ core top sequences and thus may be of interest to anyone requiring core top samples from this region.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 81 GGC
Expedition 110 Station No. 51
Leg No. 2 Total Core Length 454 cm

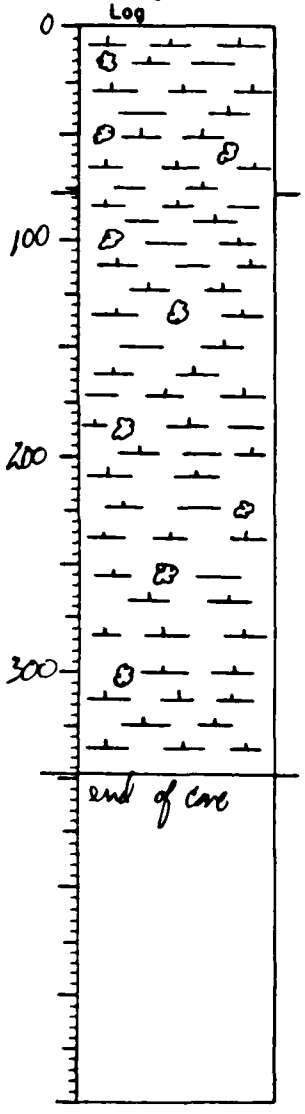
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	TR	2			26	30	35	2		5			
15	CALC OOZE	TR	3			24	25	40	3	TR	5			
22	CALC OOZE	2	10			30	15	40	TR	TR	3			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Knorr Cruise 110 Leg 2 Sta. 52 Core No B2 GGC
Total Length 348 cm. Lat. 9°20.2' N Long 43°22.2' W Depth 2816 m
Core condition excellent Date Described 3/29/00 by DAVIS
Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-78

HIGHLY CALC CLAY
10YR 6/3 pale brown into 7.5YR 5/4 dark brown
into 10YR 5/8 yellowish brown
faint to scattered mottling downcore
lutite with abundant forams to common forams
S, incline 10°

78-348

CALC CLAY INTO HIGHLY CALC CLAY INTO CALC OOZE
10YR 6/4 light yellowish brown with slightly
lighter colored regions
scattered mottling throughout
smooth lutite with forams common throughout
thin, ≤ 1 cm. thick, 7.5YR 5/6 strong brown zone,
at 78 cm. transition zone

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

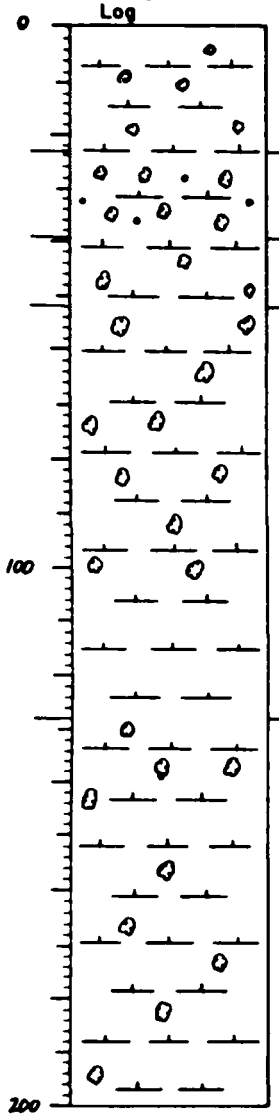
Ship: Knorr Core No. B2GGC
Expedition 110 Station No. 52
Leg No. 2 Total Core Length 348 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
18 cm	highly calc clay	1	1			80	3	16			4			Tr
90	calc clay	Tr	Tr			87	1	10			2			
160	" "	Tr	Tr			84	1	12			3			
240	highly calc clay	Tr	Tr			76	2	19			3			
280	" "	1	Tr			72	4	20			3			
330	calc ooze	Tr	Tr			68	3	25			4			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 53 Core No 83 GGC
Total Length 326 cm. Lat. 4° 21.10' N Long. 45° 31.80' W Depth 2912 m corr.
Core condition EXCELLENT Date Described 6 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation; few 10 YR 4/2 dark grayish brown mottles near top
Silty lutite with abundant forams grading to common
Few 10 YR 2/1 black flecks noted at 22 cm.; shrinkage void 0-4 cm.
G.

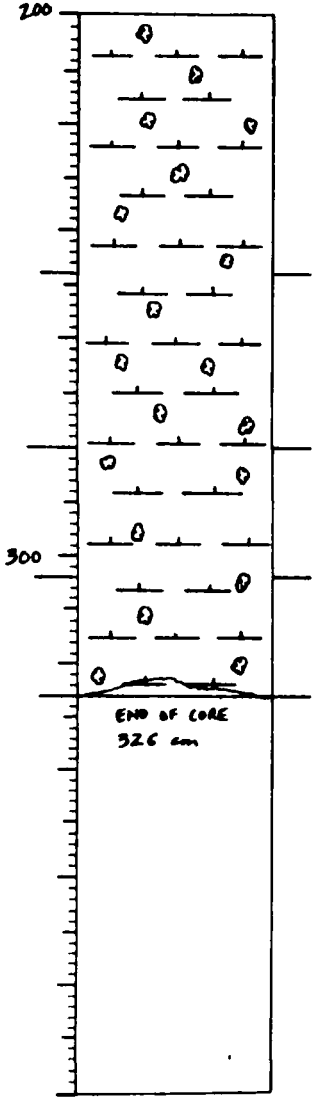
23-39
CALC OOZE WITH MICRONODULES
10 YR 5/4 yellowish brown
Heavily mottled with 10 YR 4/2 dark grayish brown and 10 YR 6/3 pale brown
Slightly silty lutite with common forams
Some color changes appear to be laminar
S.

39-52
CALC OOZE
10 YR 5/3 brown changing to 10 YR 6/4 light yellowish brown at 44 cm.
Scattered mottling with intercalation
Slightly silty lutite with common forams
1 mm thick slightly lithified layers at 39 cm., 48 cm., surrounding lutite tinged with 10 YR 5/6 yellowish brown; .5 cm thick lamination tinged with 10 YR 5/6 yellowish brown at 50 cm.
S.

52-128
CALC OOZE
10 YR 5/2.5 grayish brown grading to 10 YR 6/4 light yellowish brown
Extensive 2.5 Y 5/2 grayish brown and 10 YR 5/3 brown mottling above 107 cm.
Slightly silty lutite with common forams becoming abundant from 90-107 cm.
Few regions tinged with 10 YR 5/6 yellowish brown most notably 58-67 cm., 122-128 cm.
S.

Ship KNR Cruise 110 Leg 2 Sta. 53 Core No 83 GGC

Lithologic Log



Detailed Description

128-248
CALC OOZE
2.5 Y 4.5/2 dark grayish brown grading to 2 5 Y 6/3 light yellowish gray/brown
Common mottling with intercalation above 150 cm; otherwise mottling is 10 YR 5/3 brown and 10 YR 5/2 grayish brown
Slightly silty lutite with common forams
Few 10 YR 5/1 gray mottles at 150 and 154 cm.; small aqua blue fleck at 199 cm.; bottom 2 cm of unit tinged with yellowish brown
S, mottled.

248-280
CALC OOZE
10 YR 5/3 brown becoming 10 YR 5/2 grayish brown near unit base
Common 2.5 Y 4/2 dark grayish brown mottles
Slightly silty lutite with common forams except abundant forams from 258-260 cm.
From 260-278 cm. unit displays a marbled appearance - may be a slump
S, mottled.

280-304
CALC OOZE
10 YR 5/2 grayish brown
Scattered 10 YR 5/1 gray and 10 YR 4/2 dark grayish brown mottles
Slightly silty lutite with common forams
S, mottled.

304-326
CALC OOZE
10 YR 7/2 light gray
Common 10 YR 5/2 grayish brown mottling
Slightly silty lutite with common forams
Triangular void 322-326 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 83 GGC

Expedition 110 Station No. 53

Leg No. 2 Total Core Length 326 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		3			25	35	30	2		4	TR		1
30	CALC OOZE W/ MICRONODULES	2	15			32	10	40		TR	1			
45	CALC OOZE	3	6			32	8	50			1			
100	CALC OOZE	5	8			36	10	40			1			
175	CALC OOZE	8	8			28	15	40			1			
254	CALC OOZE	4	5			35	10	45			1			
290	CALC OOZE	8	3			40	5	43			1			
320	CALC OOZE	10	3			40	20	25			2			

VISUAL CORE DESCRIPTION

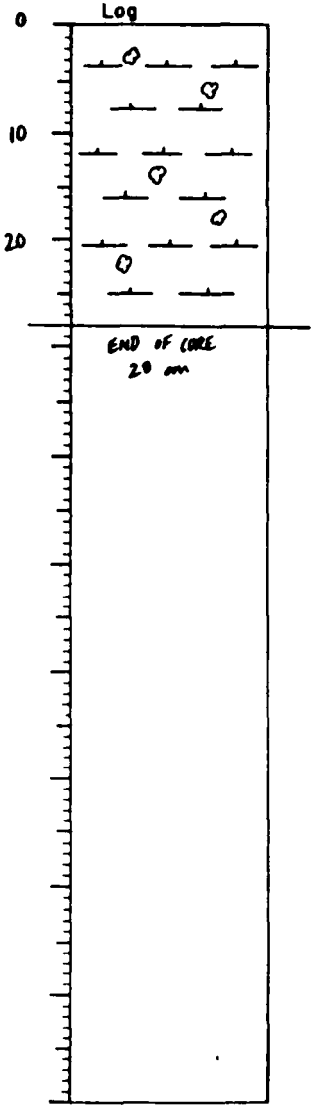
Ship KNR Cruise 110 Leg 2 Sta. _____ Core No 84 BC

Total Length 28 cm. Lat. 4°21.69' N Long 43°30.64' W Depth 2947 m corr

Core condition EXCELLENT Date Described 6 MAR 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-28

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Slightly silty lutite with abundant forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 84BC

Expedition 110 Station No. _____

Leg No. 2 Total Core Length 28 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Otoliths	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		3			28	20	35	5	TR	3	6		
27	CALC OOZE	TR	4			22	25	35	5		4	5		

VISUAL CORE DESCRIPTION

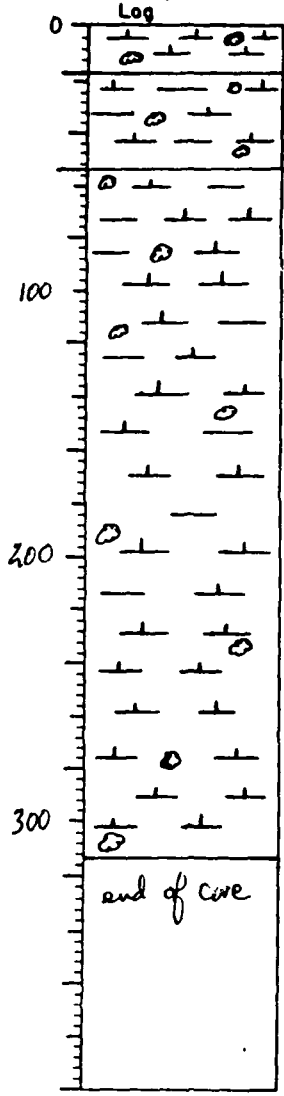
Ship Knorr Cruise 110 Leg 2 Sta. 54 Core No RS GGC

Total Length 314 cm. Lat. 4°26.05'N Long 43°34.25'W Depth 3174 m

Core condition excellent Date Described 11/14/88 by DAVIS

Physiographic location Ceara Rise

Lithologic Log



Detailed Description

0-17

CALC OOZE
10YR 6/4 light yellowish brown
common mottling
lutite with abundant forams
G

17-54

HIGHLY CALC CLAY
10 YR 4/4 dark yellowish brown with lighter regions throughout
common mottling
lutite with common forams
extensively intercalated throughout section
S, horizontal

54-314

HIGHLY CALC CLAY INTO CALC OOZE
10YR 5/4 yellowish brown
common mottling
lutite with common forams
10YR 5/8 yellowish brown indurated layers at 54, 59-60, 96, 134, 208-209, 229-230, 308, and 311 cm.

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr — Core No. 85GGC

Expedition 110 — Station No. 54

Leg No. 2 — Total Core Length 314 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
14 cm	calc ooze	1	2			52	20	10			15			Tr
40	highly calc clay	1	3			68	3	17			8			
85	" " "	1	3			72	4	14			6			
160	" " "	1	2			72	5	12			8			
240	" " "	1	2			69	3	20			5			
295	calc ooze	1	2			62	8	12			15			

VISUAL CORE DESCRIPTION

Page 1 of 1

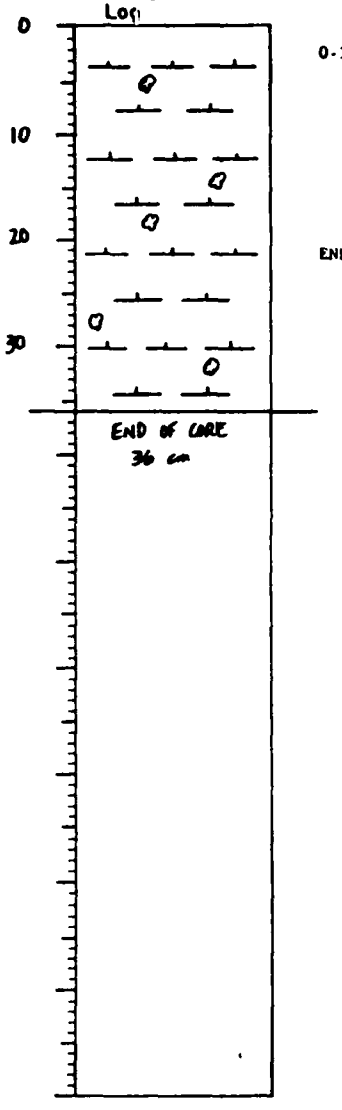
Ship KNR Cruise 110 Leg 2 Sta. ____ Core No 86 BC

Total Length 36 cm. Lat. 4°26.57' N Long. 43°29.09' W Depth 3320 m. corr.

Core condition EXCELLENT Date Described 8 MAR 1990 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-36

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered to common 10 YR 4/2 dark grayish brown mottles and intercalations
Slightly silty lutite with abundant forams and common pteropods
Pteropod concentrations from 18-25 cm

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 86 BC

Expedition 110 Station No.

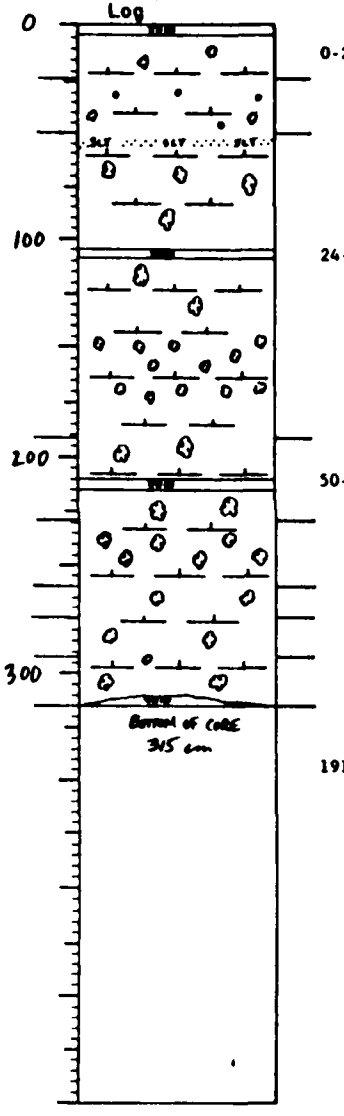
Leg No. 2 Total Core Length 36 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	2			40	10	40	2		4	2		
20	CALC OOZE	1	1			37	10	40	6		4	1		
36	CALC OOZE	TR	4			40	8	44	1		3	TR		

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta 55 Core No 87 GGC
Total Length 315 cm. Lat. 4° 37.86 N Long 43° 40.25 W Depth 2776 m. corr.
Core condition EXCELLENT Date Described 7 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-24
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation of major colors
Silty lutite with abundant forams grading to common
Shrinkage void 0-3 cm.
G.

24-50
CALC OOZE WITH MICRONODULES
10 YR 5/3 brown with many 10 YR 4/2 dark grayish brown laminations
Few faint 2.5 Y 5/2 grayish brown mottles below 34 cm.
Slightly silty lutite with common forams
Laminations are most heavily concentrated from 24-34 cm.
S.

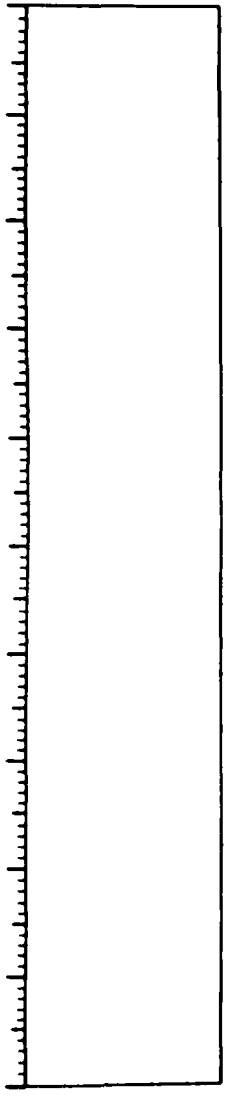
50-191
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Common to extensive mottling throughout primarily 2.5 Y 5/2 and 2.5 Y 4/2 grayish brown, from 133-184 cm. unit displays extensive 10 YR 4/2 and 10 YR 5/2 small grayish brown mottles
Slightly silty lutite with common forams
Several thin 10 YR 5/6 laminae occur throughout most notably at 65, 113, 130 cm ; very silty 10 YR 5/6 yellowish brown layer from 54-56 cm , void 105-108 cm.
G.

191-229
CALC OOZE
10 YR 5.5/4 light yellowish brown
Common 10 YR 4/2 dark grayish brown mottling except extensive from 200-208 cm.
Slightly silty lutite with common forams
Very thin 10 YR 5/6 yellowish brown lamination at 226 cm.; void 210-215 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise NO Leg 2 Sta. 55 Core No 87 GGC

Lithologic Log



Detailed Description

229-260
CALC OOZE
10 YR 5/3 brown
Extensive 2.5 Y 4/2 dark grayish brown mottling
Smooth lutite with common forams
Large 10 YR 4/2 mottle at 247 cm.; very thin 2.5 Y N3/ very dark gray lamination at 258 cm.
G, mottled.

260-275
CALC OOZE
10 YR 5/2 grayish brown
Common 10 YR 5/3 brown and 2.5 Y 6/2 light brownish gray mottles
Slightly silty lutite with common forams
G, mottled.

275-292
CALC OOZE
2.5 Y 6/2 light brownish gray
Common 10 YR 5/2 grayish brown mottles
Slightly silty lutite with common forams
Large 10 YR 3/2 very dark grayish brown mottle at 285 cm.
G, mottled.

292-315
CALC OOZE
10 YR 5/3 brown
Few 2.5 Y 6/2 mottles near top of unit; common 10 YR 4/2 mottles from 297 cm. to bottom
Slightly silty lutite with common forams
Triangular void from 312-315 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 87 GGC

Expedition 110 Station No. 55

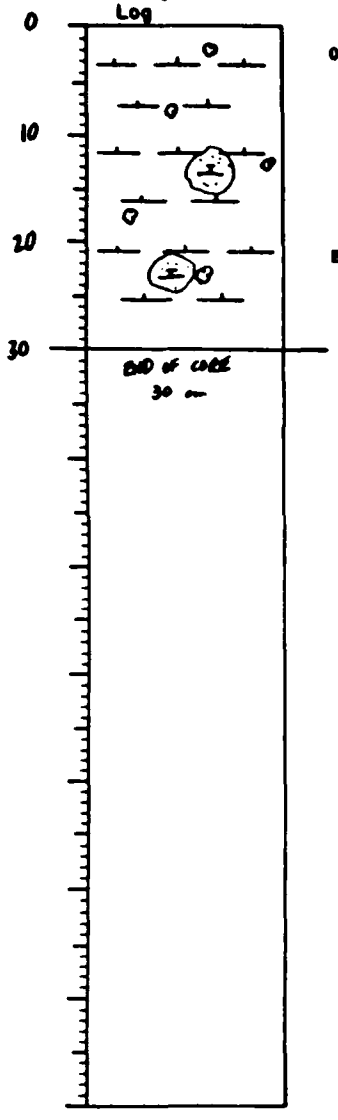
Leg No. 2 Total Core Length 315 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	3			24	35	30	3		4	1		TR
17	CALC OOZE	TR	4			36	20	35	TR		5	TR		
37	CALC OOZE W/ MICRONODULES	2	15			34	7	40			2			
100	CALC OOZE	1	3			39	10	45			2			
175	CALC OOZE	5	5			35	12	40			3			
220	CALC OOZE	1	2			45	8	43			1			
245	CALC OOZE	10	8			40	5	37			TR			
267	CALC OOZE	2	4			50	5	38			1			
284	CALC OOZE	6	2			35	20	33			4			
310	CALC OOZE	5	5			43	6	40			1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. _____ Core No. 88 BC
Total Length 30 cm. Lat. 1°37.86' N Long. 43°29.03' W Depth 2952 m corr.
Core condition EXCELLENT Date Described 9 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-30

CALC OOZE
10 YR 5/2 greyish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered but faint mottling with intercalation Silty lutite with abundant forams and pteropods
Regions of pteropod sand at 11-17 cm. and 20-25 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

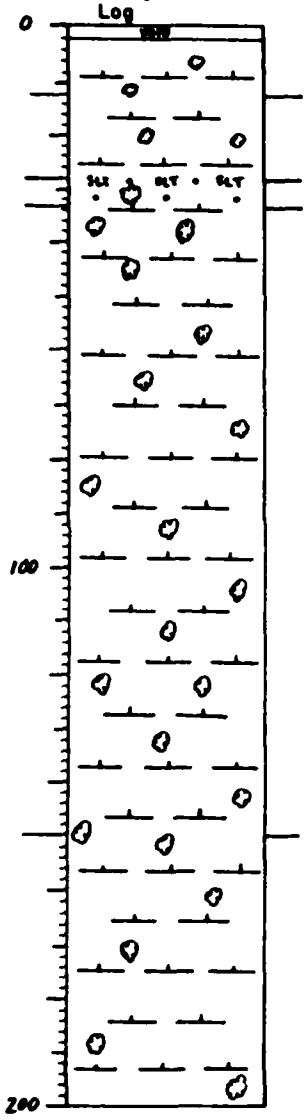
Ship: KNR Core No. 88 BC
Expedition 110 Station No. _____
Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		2			24	25	35	5		5	4		
20	CALC OOZE	TR	1			30	25	30	8		5	1		

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 56 Core No 89 GGC
Total Length 315 cm. Lat. 4°42.10'N Long. 43°28.60'W Depth 3613 m corr.
Core condition EXCELLENT Date Described 7 MAR. 1989 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-2 cm.
G.

12-28
CALC OOZE WITH MICRONODULES
10 YR 5/4 brown with many 10 YR 4/2 dark grayish brown laminations
Slightly silty lutite with common forams
S.

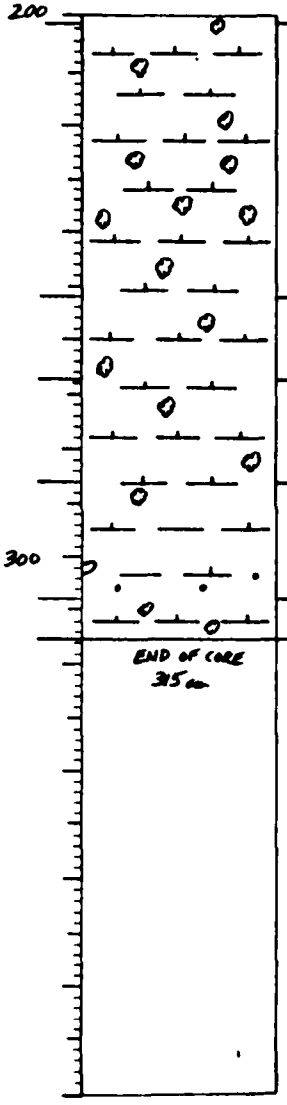
28-33
CALC OOZE/MICRONODULES
10 YR 5/6 yellowish brown
One large 2.5 Y 5/2 dark grayish brown mottle at 30 cm.
Slightly silty lutite with common forams
Upper contact is very silty with visible micronodules
G.

33-150
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Common to extensive 2.5 Y 4/2, 5/2 and 6/2 mottling above 105 cm.; common to extensive 10 YR 5/2, 4/2 mottling below 107 cm.
Slightly silty lutite with common forams
Several horizontal regions tinged with 10 YR 5/6 yellowish brown most notably at 58, 106, 147-150 cm.; common black flecks below 135 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta 56 Core No 89 GGC

Lithologic Log



Detailed Description

150-201
CALC OOZE
10 YR 5/2 grayish brown becoming slightly yellowish below 170 cm.
Scattered 2.5 Y 5/2 and 4/2 mottling throughout
Slightly silty lutite with common forams
Region from 180-183 cm. shows 10 YR 5/6 yellowish brown laminae as does region from 198-201 cm
G.

201-252
CALC OOZE
10 YR 5/3 brown tinged with yellow above 220 cm
Scattered 2.5 Y 5/2, 4/2 mottling becoming extensive from 222-242 cm.
Smooth lutite with scattered forams
Large 2.5 Y N3/ very dark gray mottles at 216 and 241 cm.
G, mottled.

252-267
CALC OOZE
10 YR 5/2 grayish brown
Scattered 10 YR 5/3 and 2.5 Y 6/2 light brownish gray mottles
Smooth lutite with common forams
Large 2.5 Y 5/2 grayish brown mottle at 258 cm
G, mottled.

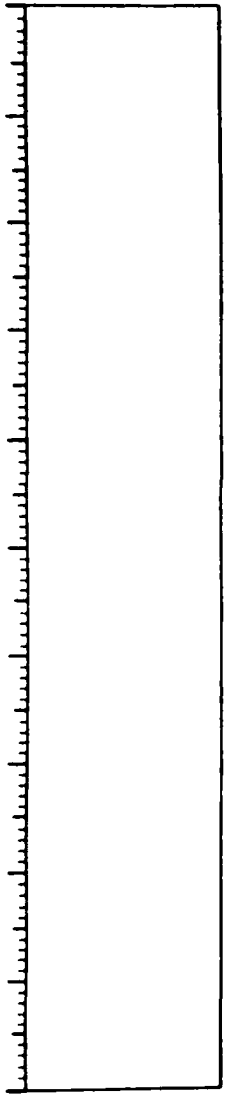
267-286
CALC OOZE
2.5 Y 6/2 light brownish gray
Scattered 10 YR 5/2 grayish brown mottles
Slightly silty lutite with common forams
G.

286-308
HIGHLY CALC CLAY
2.5 Y 6/3 light yellowish gray/brown
Faint 2.5 Y 6/2 mottles above 292 cm
Slick lutite with common forams
Large 2.5 Y N4/ dark gray mottle at 302 cm , 300 308 cm. tinged with 10 YR 5/6 yellowish brown and has visible micronodules
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 56 Core No. 89 GGC

Lithologic Log



Detailed Description

308-315
CALC OOZE
2.5 Y 6/2 light brownish gray
Faint 2.5 Y 5/2 grayish brown mottling
Slightly silty lutite with common forams

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 89 GGC

Expedition 110 Station No. 56

Leg No. 2 Total Core Length 315 cm

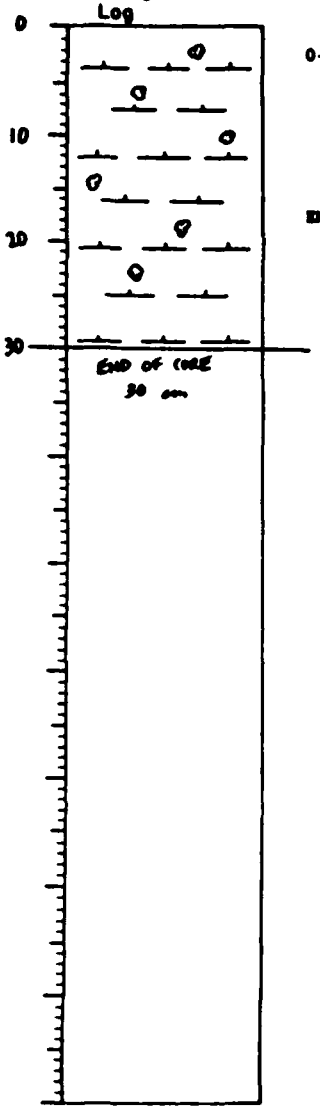
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE	TR	3			28	30	35	TR	TR	4	TR		TR
20	CALC OOZE W/ MICRONODULES	5	20			27	7	40			1			
31	CALC OOZE/ MICRONODULES	8	30			30	3	29			TR			
70	CALC OOZE	10	4			33	8	45		TR	TR			
140	CALC OOZE W/ MICRONODULES	10	15			35	12	27			1			
175	CALC OOZE	3	2			45	15	34			1			
230	CALC OOZE	4	5			45	TR	45		TR	1			
260	CALC OOZE	1	2			55	6	35			1			
276	CALC OOZE	2	3			40	20	35						
297	HIGHLY CALC CLAY	1	2			69	2	25			1			
313	CALC OOZE	8	5			40	12	34			1			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 56 Core No 90 BC
Total Length 30 cm. Lat. 9°42.8'N Long 49°25.3'W Depth 3659 m corr.
Core condition EXCELLENT Date Described 9 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-30

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Slightly silty lutite with abundant forams and common pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

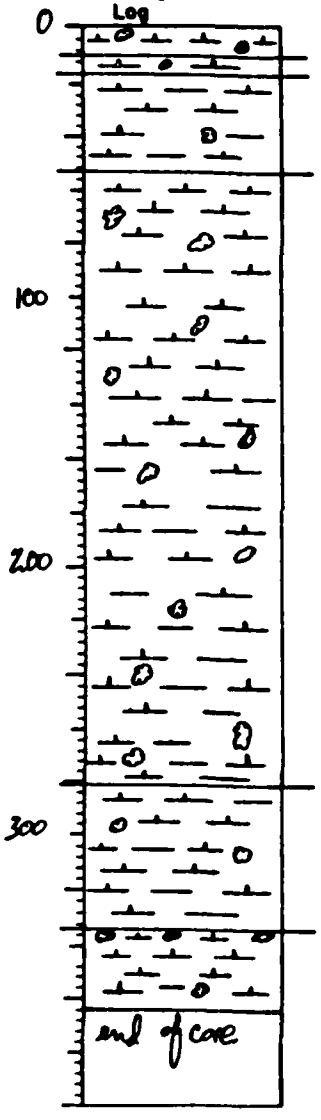
Ship: KNR Core No. 90 BC
Expedition 110 Station No. _____
Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		4			30	25	30	3		5	3		
29	CALC OOZE	TR	8			40	10	39	1		2	TR		

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 57 Core No 91GGC
Total Length 364 cm. Lat. 5°S-5°N Long. 93°85W Depth 3910 m
Core condition excellent Date Described 6/29/88 by DSV8
Physiographic location Cocos Rise

Lithologic Log



Detailed Description

0-10
CALC OOZE
10YR 6/4 light yellowish brown
scattered mottling of 10YR 5/1 gray material
lutite with abundant forams
some shrinkage
G

10-16
CALC OOZE
10YR 5/8 yellowish brown
faint mottling
smooth lutite with common forams
G

16-53
HIGHLY CALC CLAY
10YR 5/6 yellowish brown
faint mottling, but mainly intercalated
smooth lutite with common forams
extensive to common intercalations throughout
S, horizontal

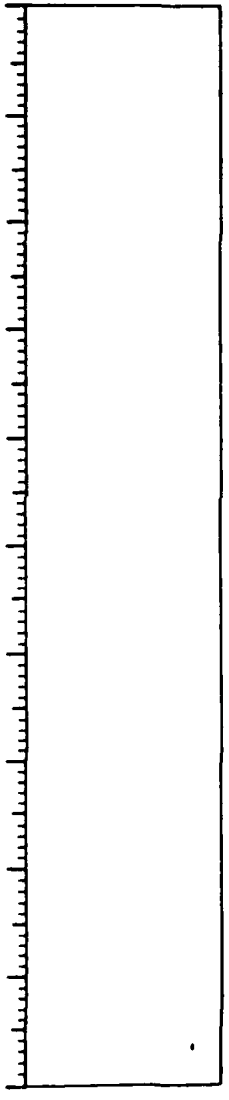
53-281
CALC OOZE INTO CALC CLAY
10YR 5/4 yellowish brown with some variation downcore
common mottling of 10YR 5/3 brown material throughout
smooth lutite with common forams
53-56 cm - 7.5YR 5/8 strong brown unit with 2 semi-indurated layers within area; other strong brown layers at 175 cm, 207 cm, 235 cm, 331 cm.

281-334
HIGHLY CALC CLAY
10YR 6/3 pale brown darkens below 225 cm.
scattered mottling from 293-308 cm, faint below that
smooth lutite with forams decreasing from common to scattered below approximately 315 cm.
330-331 cm. faint 7.5YR 5/8 strong brown unit
S, horizontal

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110 Leg 2 Sta. 57 Core No 91GGC

Lithologic Log



Detailed Description

334-364
HIGHLY CALC CLAY
10YR 5/4 yellowish brown
extensive mottling from 337-340 cm; remainder is faintly mottled
smooth lutite with common forams
334-337 cm; 7.5YR 5/8 strong brown unit; uppermost 0.25 cm. semi-indurated

END OF CORE...

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core No. 91GCC

Expedition 110 Station No. 57

Leg No. 2 Total Core Length 364 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6 cm	calc ooze	Tr	1			68	4	17	Tr		10			Tr
13	" "	Tr	Tr			63	6	16	Tr		15			
40	highly calc clay	Tr	1			78	2	15			4			
80	calc ooze	Tr	1			69	2	20			8			
170	calc clay	Tr	1			80	2	14			3			
230	" "		Tr			85	1	12			2			
310	highly calc clay		Tr			75	4	9	Tr		12			
345	" " "	Tr	1			70	5	20	Tr		4			

VISUAL CORE DESCRIPTION

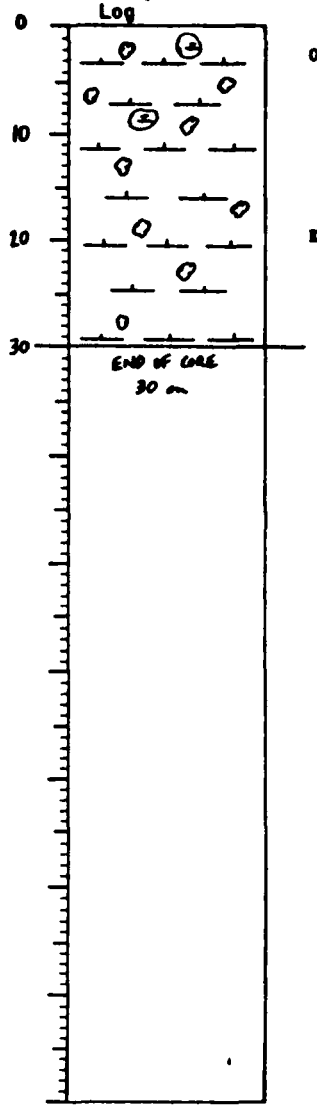
Ship KNR Cruise 110 Leg 2 Sta. _____ Core No 92 BC

Total Length 30 cm. Lat. 4°46.37 N Long. 93°16.59 W Depth 3002 m corr.

Core condition EXCELLENT Date Described 2 MAR 92 by P. MILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-30

CALC OOZE
10 YR 5/2 greyish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common 10 YR 4/2 mottling above 22 cm, faint mottling with intercalation throughout
Slightly silty lutite with very abundant forams
Few pockets of foram sand above 10 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 92 BC

Expedition 110 Station No. _____

Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		5			32	15	40	3		3	2		
29	CALC OOZE	TR	6			35	15	40	1		2	1		

VISUAL CORE DESCRIPTION

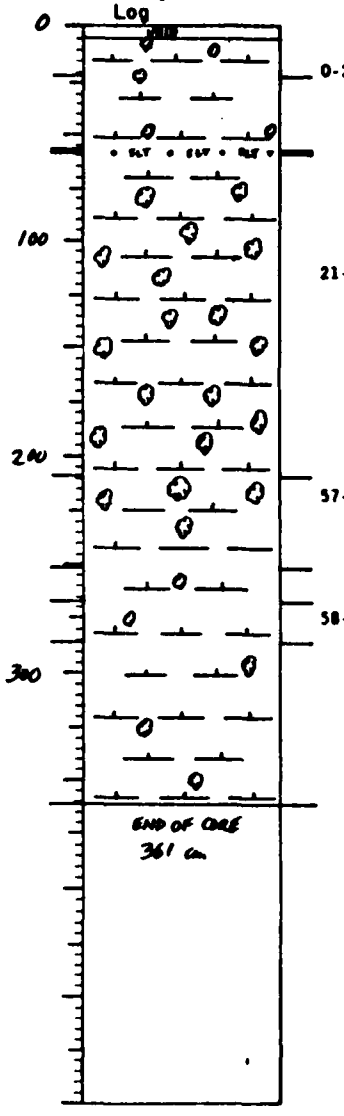
Ship KNR Cruise 110 Leg 2 Sta. 58 Core No 92 GGC

Total Length 361 cm. Lat. 4°51.25' N Long. 42°08.55' W Depth 4056 m corr.

Core condition GOOD Date Described 8 MAR. 1989 by P. HILLS

Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-21

CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Scattered mottling with intercalation
Silty lutite with abundant forams grading to common
Shrinkage void 0-5 cm.
G.

21-57

CALC OOZE
10 YR 5/3 brown with many 10 YR 4/2 dark grayish brown laminations
Faint 10 YR 6/3 mottles above 26 cm.; scattered 2.5 Y 5/2 grayish brown mottles below 45 cm.
Slightly silty lutite with common forams
Dark laminations most concentrated from 21-31 cm. and 37-44 cm.
S.

57-58

CALC OOZE/MICRONODULES
10 YR 5/6 yellowish brown
Very silty lutite
S.

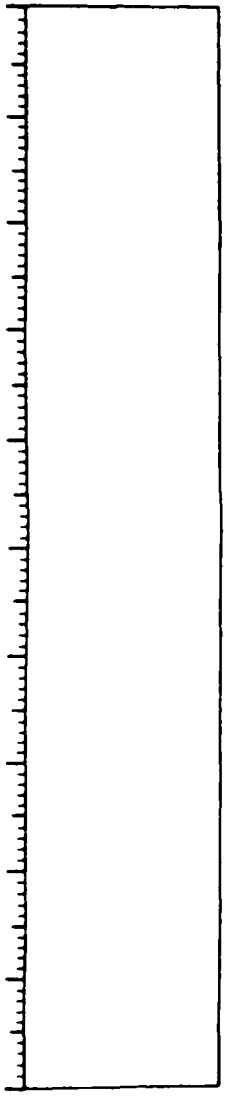
58-208

CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Extensive 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown mottling above 160 cm.; extensive 10 YR 4/2 dark grayish brown mottling below 160 cm.
Slightly silty lutite with common forams
Several horizontal laminations tinged with 10 YR 5/6 yellowish brown most notably at 78-81, 123, 160 and 196 cm.
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 58 Core No 93 GGC

Lithologic Log



Detailed Description

208-251
CALC CLAY WITH MICRONODULES
10 YR 5/4 yellowish brown
Abundant 2.5 Y 4/2 dark grayish brown mottles/burrows, many large
Smooth moist lutite with few forams
Very large burrow at 247-250 cm. with common forams
C, Mottled.

251-267
CALC OOZE
10 YR 5/2 grayish brown
Few 10 YR 4/2 dark grayish brown mottles
Slightly silty lutite with scattered forams
C, mottled.

267-286
CALC OOZE
2.5 Y 6/2 light brownish gray
Few 10 YR 5/2 grayish brown mottles
Smooth lutite with common forams
Large 10 YR 5/2 burrow from 268-271 cm.
C

286-361
CALC OOZE
10 YR 6/3 light yellowish brown grading to 10 YR 6/2 light brownish gray
Few 2.5 Y 6/2 mottles above 296 cm.; few 10 YR 4/2 mottles below 310 cm.
Slightly silty lutite with common forams
Two 10 YR 5/6 yellowish brown laminations at 299 and 304 cm.; triangular void from 355-361 cm.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 93 GGC

Expedition 110 Station No. 58

Leg No. 2 Total Core Length 361 cm

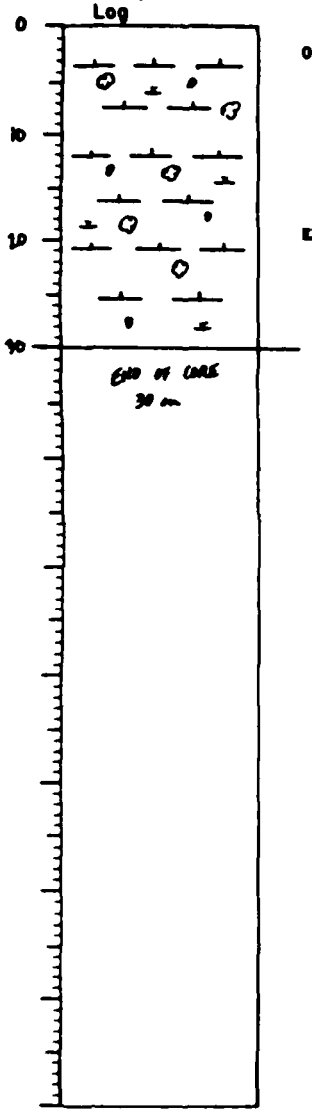
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
9	CALC OOZE	TR	7			22	38	30	2		1	TR		TR	
40	CALC OOZE	4	10			35	6	45			TR				
57	CALC OOZE / MICRONODULES	6	30			26	8	30			TR				
120	CALC OOZE	4	5			45	6	40			TR				
200	CALC OOZE	3	10			38	8	40			1				
234	CALC CLAY W/ MICRONODULES	20	15			50	TR	15			TR				
260	CALC OOZE	2	3			55	7	32			1				
275	CALC OOZE	2	4			50	8	32		TR	4				
320	CALC OOZE	1	4			45	15	33		TR	2				
353	CALC OOZE	1	2			50	15	27			5				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 58 Core No 94 BC
Total Length 30 cm. Lat. 1°52.51' N Long. 42°09.81' W Depth 4107 - corr.
Core condition EXCELLENT Date Described 12 MAR 1990 by P. MILLER
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-30

CALC OOZE
10 YR 5/2 greyish brown grading to 10 YR 5/3 brown grading to 10 YR 5/4 yellowish brown
Scattered 10 YR 4/2 dark greyish brown mottling above 25 cm.; faint intercalations throughout
Slightly silty lutite with abundant forams
Scattered pockets of foram sand throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

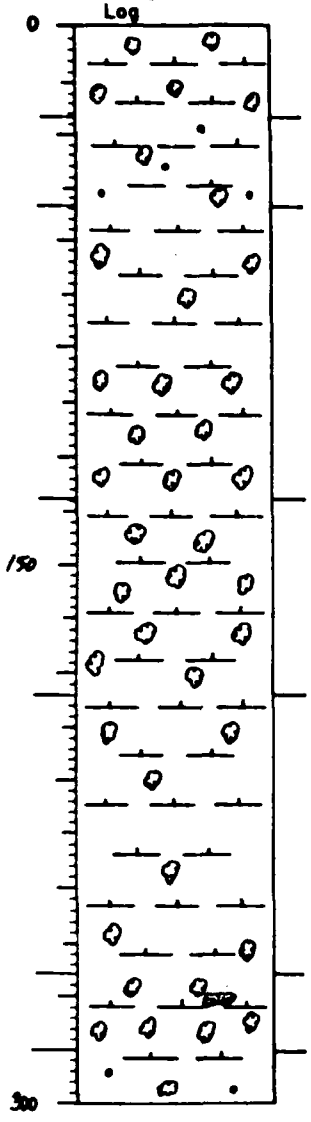
Ship: KNR Core No. 94 BC
Expedition 110 Station No. 58
Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	4			36	15	40	1		2	2		
28	CALC OOZE	1	8			39	10	40	TR		2	TR		

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 59 Core No 95 G6C
Total Length 388 cm. Lat. 4°52.92 N Long 93°01.75 W Depth 4260 m corr.
Core condition EXCELLENT Date Described 12 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-25
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common mottling with intercalation
Silty lutite with abundant forams grading to common
G.

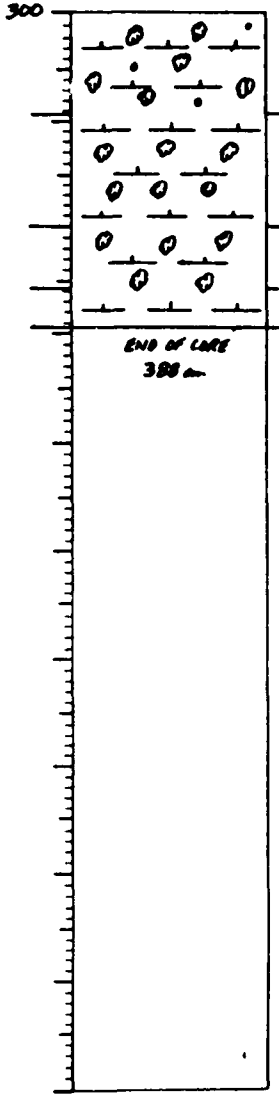
25-51
HIGHLY CALC CLAY WITH NICRONODULES
10 YR 5/3 brown with many 10 YR 3/2 very dark grayish brown laminations
Scattered 10 YR 5/3 mottling in darker regions; few 10 YR 6/3 mottles from 28-31 cm.
Slightly silty lutite with common forams
Dark laminations concentrated in regions 28-31 cm., 40-50 cm.
G.

51-131
CALC OOZE
10 YR 6/4 light yellowish brown with 10 YR 3/2 very dark grayish brown laminations
Scattered 10 YR 4/2 dark grayish brown mottling above 87 cm.; extensive 10 YR 4/2 mottling below 93 cm.
Slightly silty lutite with common to abundant forams
Dark laminations concentrated in the regions 61-64 cm., 88-93 cm., 102-104 cm.
G.

131-186
CALC OOZE
10 YR 4/4 dark yellowish brown changing to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Extensive mottling and marbling with intercalation of major colors
Smooth lutite with scattered forams
Several 10 YR 3/2 very dark grayish brown mottles from 140-145 cm.
G.

Ship KNR Cruise 110 Leg 2 Sta 59 Core No 95 G6C

Lithologic Log



Detailed Description

186-264
CALC OOZE
10 YR 5.5/4 light yellowish brown becoming lighter near unit base
Common 10 YR 4/2 dark grayish brown mottling above 220 cm.; scattered 10 YR 6/2 light brownish gray mottles 230-242 cm.
Slightly silty lutite with common forams becoming abundant below 254 cm.
G, mottled.

264-285
CALC OOZE
10 YR 5/4 yellowish brown and 10 YR 3/2 very dark grayish brown
Extensive 10 YR 6/4 light yellowish brown mottling throughout
Smooth lutite with common forams
Large 10 YR 6/3 mottle with abundant forams at 272 cm.
S, mottled.

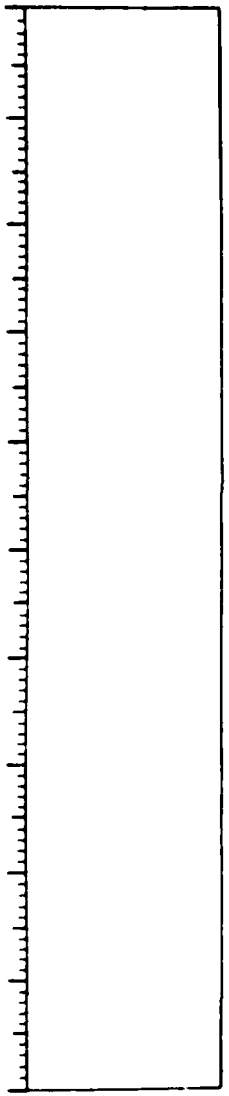
285-328
CALC OOZE WITH NICRONODULES
10 YR 5/3 brown grading to 10 YR 5/4
Common 10 YR 3/2 very dark grayish brown mottling becoming extensive from 302-315 cm.
Smooth lutite with common forams
G, mottled.

328-360
CALC OOZE
10 YR 5/3 brown
Extensive 2.5 Y 4/2 dark grayish brown mottling; few 10 YR 6/2 light brownish gray mottles from 347-352 cm.
Slightly silty lutite with common forams
Large 2.5 Y 4/2 mottles at 333-336 cm
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 59 Core No 95 GGC

Lithologic Log



Detailed Description

360-377
CALC OOZE
10 YR 5/3 brown
Extensive 10 YR 6/2 light brownish gray mottling with common forams and common 2.5 Y 5/2 grayish brown mottles above 371 cm.
Smooth lutite with few forams
G.

377-388
CALC OOZE
10 YR 6/3 pale brown
Few 10 YR 5/3 brown mottles
Silty lutite with abundant forams

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 95 GGC

Expedition 110 Station No. 59

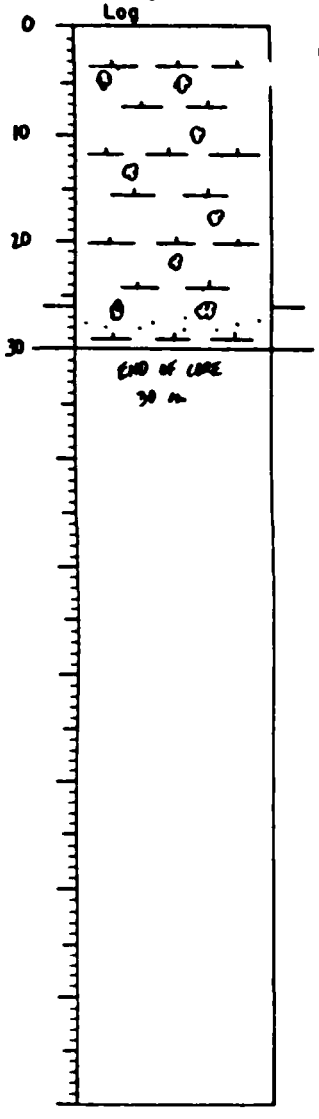
Leg No. 2 Total Core Length 388 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
2	CALC OOZE	1	6			35	25	30	1	TR	TR	2		TR	
18	CALC OOZE W/ MICRONODULES	1	15			50	8	26			TR				
40	HIGHLY CALC O W/MICRONODULES	5	20			50	2	23			TR				
80	CALC OOZE	10	4			36	5	45			TR				
160	CALC OOZE	7	3			45	12	32			1				
230	CALC OOZE	10	2			50	3	34	1						
278	CALC OOZE	1	4			45	6	40	2		2				
312	CALC OOZE W/ MICRONODULES	4	15			50	4	26			1				
345	CALC OOZE	5	2			44	3	45			1				
370	CALC OOZE	8	3			50	4	33			2				
387	CALC OOZE	1	3			40	15	38			3				

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 59 Core No 96 BC
Total Length 30 cm. Lat. 9°52.10 N Long. 42°58.80 W Depth 4427 m corr.
Core condition EXCELLENT Date Described 12 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-26
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common 10 YR 4/2 dark grayish brown mottles above 20 cm; common 10 YR 6/3 pale brown mottles below 17 cm.
Slightly silty lutite with abundant forams
Large pale brown burrows at 21, 25 cm.
S, mottled.

26-30
CALC OOZE WITH DETRITUS
10 YR 4/4 dark yellowish brown
Scattered 10 YR 6/3 pale brown mottles
Smooth lutite with common forams
Mottles contain abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

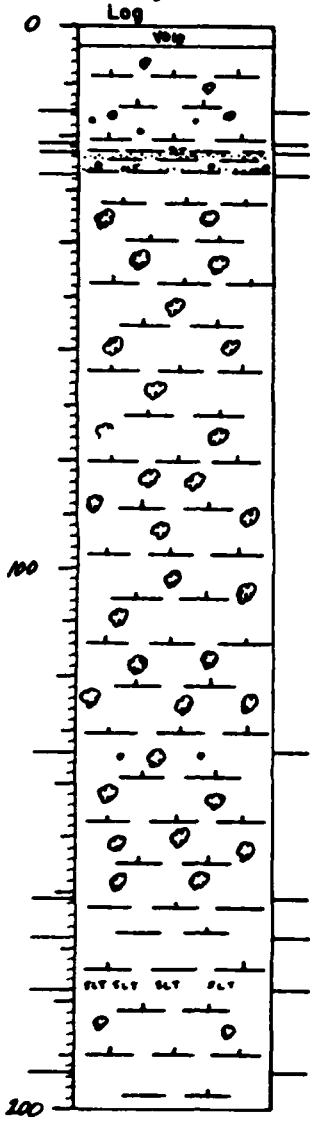
Ship: KNR Core No. 96 BC
Expedition 110 Station No. 59
Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)														
		Inorganic Material					Biogenous Material									
		Silt & Sand					Calcareous					Siliceous				
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges		
1	CALC OOZE	TR	3			40	20	39	1		3	2				
25	CALC OOZE	3	7			34	10	40	4	TR	2	TR				
29	CALC OOZE W/DETRITUS	15	10			35	5	30	TR		5	TR				

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 60 Core No 97 GGC
Total Length 341 cm. Lat. 5°04.01'N Long. 42°49.55'W Depth 4556 m corr.
Core condition EXCELLENT Date Described 12 MAR, 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-15
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 5/3 brown grading to 10 YR 5/4 yellowish brown
Faint mottling with intercalation; few 10 YR 4/1 Dark gray mottles from 8-10 cm.
Slightly silty lutite with abundant forams grading to common
Shrinkage void 0-3 cm.
G.

15-21
CALC OOZE WITH DETRITUS AND MICRONODULES
10 YR 4/3 dark brown with 10 YR 2/2 very dark brown from 18-21 cm.
Scattered 10 YR 5/3 brown mottles above 18 cm.
Smooth lutite with common forams
Large dark region from 19-21 cm.
S.

21-23
UNFOSS CLAY/DETRITUS
10 YR 5/2 grayish brown
Slightly silty lutite
S, textural and colorational

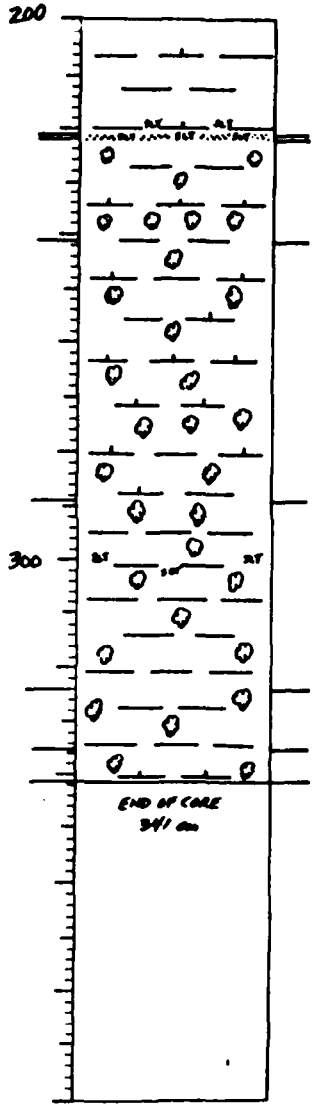
23-27
UNFOSS CLAY/DETRITUS WITH MICRONODULES
10 YR 4/4 dark yellowish brown and 2.5 Y 5/2 grayish brown
Smooth lutite with lithified chunks
Top 1 cm. of unit is semi-lithified very silty layer; a second silty lamination exists at 26 cm.
I, 5°.

27-134
CALC OOZE
10 YR 5/2 grayish brown and 2.5 Y 5/2 grayish brown
Very extensive 2.5 Y 4/2 dark grayish brown mottling throughout; many large mottles
Scattered mottling of major colors.
Slightly silty lutite with scattered forams
Many horizontal regions tinged with 10 YR 5/6 yellowish brown most notably at 38, 50, 82, and 106 cm.
G, mottled.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 60 Core No 97 GGC

Lithologic Log



Detailed Description

134-161
CALC OOZE
2.5 Y 5/2 grayish brown
Extensive 2.5 Y 4/2 dark grayish brown mottling
Smooth lutite with scattered forams
Region from 134-136 cm. tinged with 10 YR 4/6 dark yellowish brown and contains few visible micronodules
G.

161-168
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4.5/2 dark grayish brown
Smooth moist lutite
Unit contains few 2.5 Y 4/4 olive brown laminations concentrated near basal contact
S.

168-178
CALC CLAY/DETRITUS
2.5 Y 4.5/2 dark grayish brown
Smooth lutite becoming very silty near base of unit
177-178 cm. silty lamination

178-193
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 5/3 grayish olive brown
Scattered faint 2.5 Y 4/2 dark grayish brown mottles
Smooth lutite with scattered forams above 186 cm.
S.

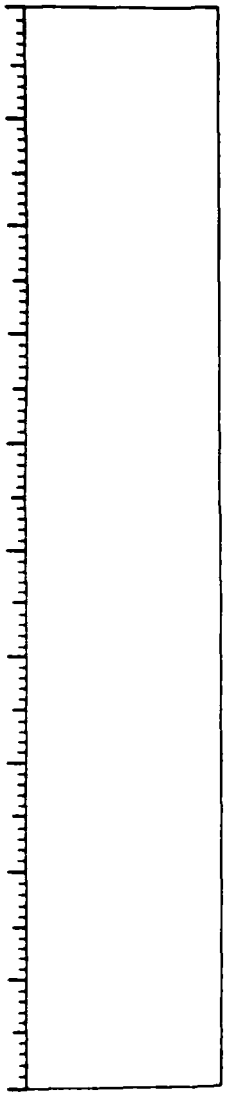
193-221
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4.5/2 dark grayish brown
Slick but somewhat silty lutite
Very uniform throughout but slightly siltier near unit base
S.

221-222
DETRITUS
5 Y 4/1 dark gray
Silt
S, irregular

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110 Leg 2 Sta. 60 Core No 97 GGC

Lithologic Log



Detailed Description

222-241
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 4.5/2 dark grayish brown
Scattered 5 Y 4/1 dark gray mottles becoming extensive below 235 cm.
Smooth lutite with fine silt
Dark gray lamination at unit base
B.

241-289
HIGHLY CALC CLAY WITH DETRITUS
Alternating 2.5 Y 5/2 grayish brown and 2.5 Y 6/2 light brownish gray regions but becoming 2.5 Y 4/2 from 270-278 cm.
Extensive 2.5 Y 4/2 dark grayish brown and 2.5 Y 4/4 olive brown mottling
Slightly silty lutite with scattered to common forams
Unit contains few 2.5 Y 4/4 laminations at 268-271 cm. and 288-289 cm.
G, mottled.

289-324
UNFOSS CLAY WITH DETRITUS
2.5 Y 5/3 grayish olive brown
Extensive 2.5 Y 4/2 dark grayish brown mottling becoming common below 313 cm.
Region from 298-305 cm. contains three 10 YR 4/6 dark yellowish brown laminations with some silty particles

324-335
UNFOSS CLAY WITH DETRITUS
2.5 Y 5/2 grayish brown
Common 2.5 Y 4/2 mottles
Smooth lutite with few forams
Round 5 Y 3/1 very dark gray mottle at 328 cm.
G.

335-341
CALC OOZE
2.5 Y 5/2 grading to 2.5 Y 6/2 light brownish gray
Common mottling with intercalation
Smooth lutite with forams increasing from few to scattered
Large 2.5 Y 4/2 mottle at 340 cm.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 97GGC

Expedition 110 Station No. 60

Leg No. 2 Total Core Length 341 cm

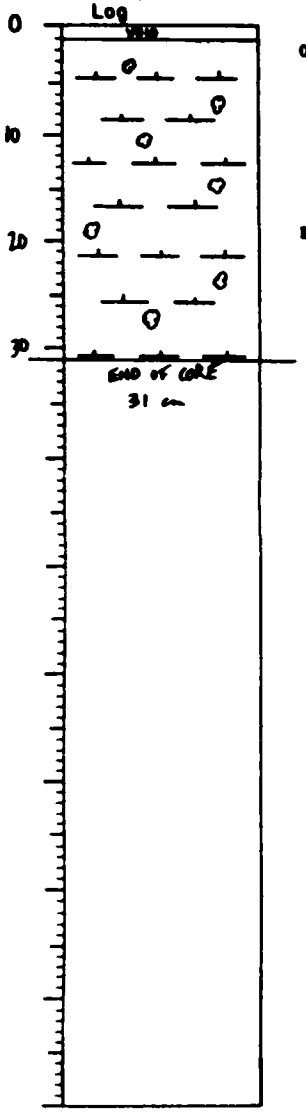
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	1	8			40	15	30	TR	TR	5	1		TR
18	CALC OOZE W/ DETRITUS AND MICRONODULES	15	15			40	2	26		TR	2			
22	UNFOSS CLAY/ DETRITUS	50	1			49								
24	UNFOSS CLAY/ DETRITUS WITH MICRONODULES	35	25			40								
70	CALC OOZE	3	4			42	1	50		TR				
148	CALC OOZE	3	2			40	5	47		TR	3			
165	SLIGHTLY CALC CLAY/DETRITUS	30	2			65	TR	3			TR			
173	CALC CLAY/ DETRITUS	35	1			58	1	4			1			
185	CALC OOZE	10	4			50	3	33			TR			
207	SLIGHTLY CALC CLAY/DETRITUS	40	3			55	TR	2						
221	DETRITUS	98				2	TR	TR						
236	SLIGHTLY CALC CLAY/DETRITUS	40	8			51	TR	1						
265	HIGHLY CALC CLAY W/DETRITUS	15	1			60	2	22			TR			
305	UNFOSS CLAY W/ DETRITUS	20	3			77								
329	UNFOSS CLAY W/DETRITUS	15	1			84		TR						
339	CALC OOZE	10	3			55	2	30						

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 110 Leg 2 Sta. 61 Core No 99 BC
Total Length 31 cm. Lat. 5°09.08' N Long. 42°44.23' W Depth 4643 m corr.
Core condition EXCELLENT Date Described 12 MAR 1990 by P. MILLS
Physiographic location CEARA RISE

Lithologic Log



Detailed Description

0-31

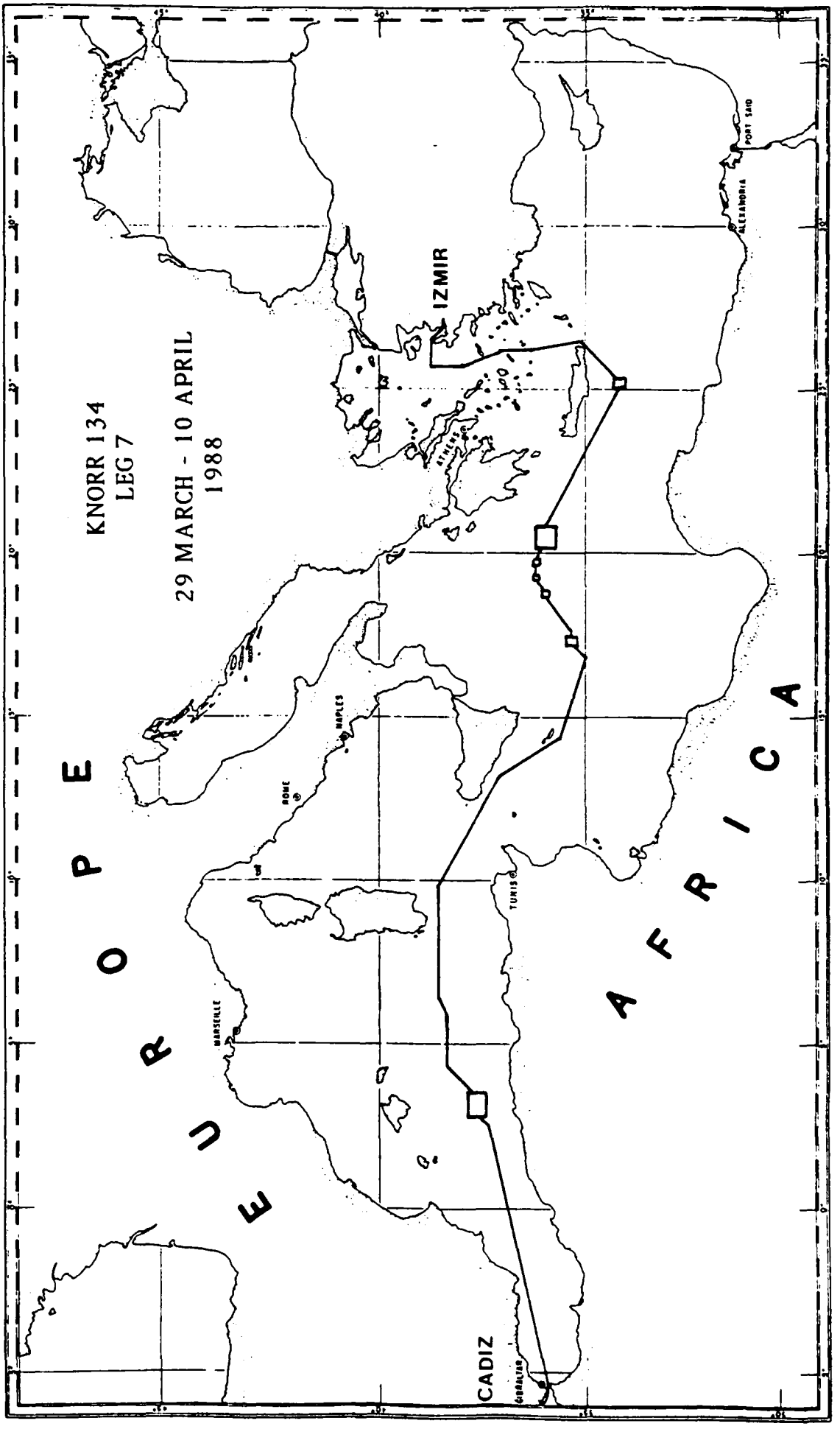
CALC OOZE
10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown
Common to 10 YR 4/2 dark grayish brown mottles and burrows
Slightly silty lutite with abundant forams
0-1 cm. void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 99 BC
Expedition 110 Station No. 61
Leg No. 2 Total Core Length 31 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	2	8			36	7	40	1	TR	2	4		
29	CALC OOZE	8	6			40	8	35		TR	2	1		


KNORR 134
LEG 7
29 MARCH - 10 APRIL
1988
IZMIR
CADIZ
EUROPE
AFRICA
ROME
NAPLES
TUNIS
MARSEILLE
ATHENS
PORT SAID
ALEXANDRIA
GIBRALTAR

********** STATION DATA RETRIEVAL ********** PAGE
********** DATE: 7-DEC-92 10:27 ********** **WHOI**

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
KNR	134	7	0000	0000	17	88 4 5	36 7.0'N	18 30.2'E	6	143.68	0001	4185.	148.	0000	21	3338	
KNR	134	7	0000	0000	17	88 4 5	36 12.5'N	19 10.4'E	6	143.69	0002	3529.	73.	0000	21	3303	
KNR	134	7	0000	0000	17	88 4 6	36 6.6'N	19 48.7'E	6	143.69	0003	3184.	58.	0000	21	3302	
KNR	134	7	0000	0000	17	88 4 6	36 4.0'N	20 14.4'E	6	142.60	0004	3299.	57.	0000	21	3302	
KNR	134	7	0000	0000	17	88 4 6	36 10.2'N	20 23.5'E	6	142.60	0005	3149.	100.	0000	21	3908	
KNR	134	7	0000	0000	17	88 4 6	36 9.7'N	20 28.9'E	6	142.60	0006	3070.	284.	0000	21	3308	
KNR	134	7	0000	0000	17	88 4 6	36 10.0'N	20 29.0'E	6	142.60	0007	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 6	36 10.0'N	20 29.0'E	6	142.60	0008	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 6	35 52.1'N	20 47.2'E	6	142.50	0009	3228.	227.	0000	21	3308	
KNR	134	7	0000	0000	17	88 4 7	35 51.9'N	20 46.6'E	6	142.50	0010	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 7	35 46.3'N	21 24.6'E	6	142.51	0011	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 8	33 24.9'N	25 0.6'E	6	142.35	0012	0.	0.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 8	33 26.0'N	25 2.7'E	6	142.35	0013	2400.	40.	0000	21	0000	
KNR	134	7	0000	0000	17	88 4 8	33 26.3'N	25 4.2'E	6	142.35	0014	2400.	80.	0000	21	3308	

THERE WERE 14 ITEMS THAT MET YOUR REQUIREMENTS.

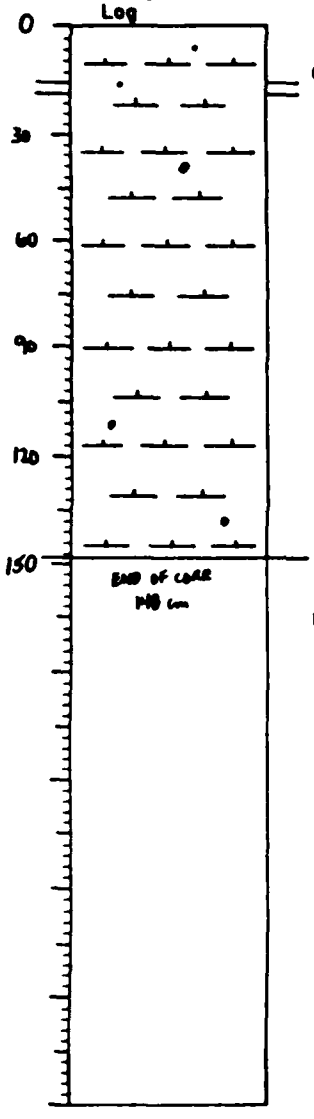
THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Ppge 1 of 1

Ship KNR Cruise 134 Leg 7 Sta. 1 Core No 1GGC
Total Length 148 cm. Lat. 36°07.0'N Long. 18°30.2'E Depth 4185 m corr.
Core condition EXCELLENT Date Described 27 APR. 1990 by P MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-15
CALC OOZE
2.5 Y 6/4 light yellowish brown
Few 10 YR 3/3 dark brown flecks above 5 cm. and below 13 cm.
Smooth lutite with few micronodules
7.5 YR 5/8 strong brown lamination at 2 cm.; 10 YR 4/1 dark gray laminations 2-3 cm.; 2-4 cm. slightly disturbed; 0-2 cm. void
S.

15-18
CALC OOZE
2.5 Y 6/4 light yellowish brown but slightly more yellow than overlying unit
Smooth lutite
Few micronodules above 16 cm.; 10 YR 4/2 dark grayish brown lamination at 16 cm.
S.

18-148
CALC/NANNO OOZE
2.5 Y 6/3 light yellowish gray
Few widely scattered very faint 10 YR 4/2 dark grayish brown mottles
Slick moist lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

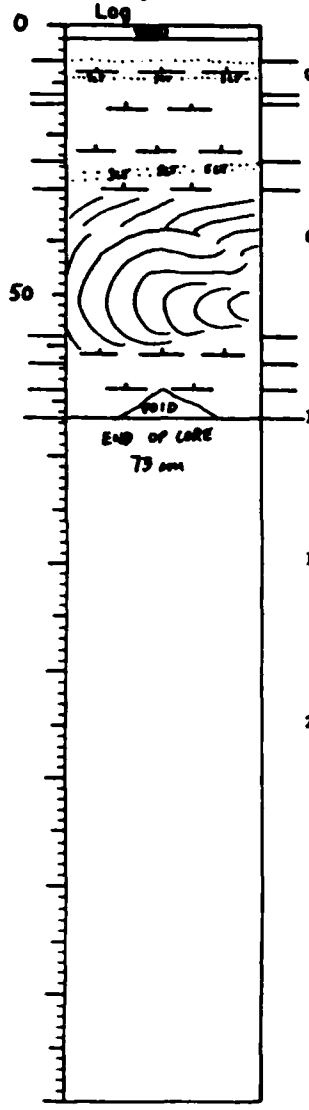
Ship: KNR Core No. 1 GGC
Expedition 134 Station No. 1
Leg No. 7 Total Core Length 148 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	3	5		1	26	TR	60		TR	5	TR		
10	CALC OOZE	2	2		1	37	TR	55		TR	3			
16	CALC OOZE	TR	1		TR	32		65		TR	2			
75	NANNO OOZE	2	2		TR	16	TR	75		TR	5			
146	CALC OOZE	3	2		2	22	TR	65		TR	5	TR		

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 2 GGC
Total Length 73 cm. Lat. 36°12.99'N Long. 19°0.77'E Depth 3529 - corr
Core condition EXCELLENT Date Described 29 MAY 1990 by P. MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-6
NANNO OOZE
10 YR 5/4 yellowish brown
Silty moist lutite with common forams
Scattered pteropod fragments becoming abundant at basal contact; 0-2 cm. shrinkage void
S.

6-12
CALC OOZE
10 YR 5/3 brown becoming 10 YR 5/4 yellowish brown below 11 cm.
Smooth moist lutite with common forams below 11 cm.
Very silty layer from 9-10 cm.
S, I 10°

12-14
CALC OOZE
10 YR 6/2 light brownish gray
Silty moist lutite with few forams
Abundant small black flecks throughout
S,I 10°

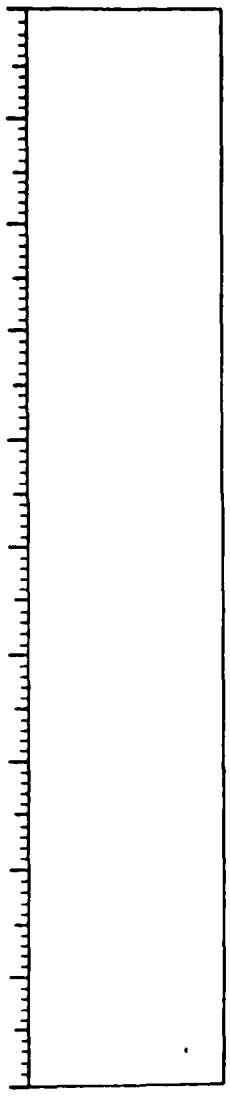
14-25
CALC OOZE
Interbedded 10 YR 6/2, 6/3, 6/4 light brownish gray, pale brown, light yellowish brown
Smooth but slightly silty lutite with forams ranging from few to common with color changes
S, I 5°

25-30
CALC OOZE
10 YR 5/4 yellowish brown with silty 2.5 Y 6/4 light yellowish brown and 2.5 Y 7/4 pale yellow laminations from 26-28 cm.
Slightly silty lutite with scattered forams except silty with few forams from 26-28 cm.
Silty laminations all show sharp contacts
S, I 10°

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 2 GGC

Lithologic Log



Detailed Description

30-58
CALC OOZE
Predominantly pale yellows, olives, and browns with some near white zones
Silty lutite
This region is dominated by a single large feature thought to be a slump. It shows folded and overturned layers and an extraordinary blend of colors. There is a fault-like feature at 38-40 cm. with apparent inclination of 10°. Core returns to what may be normal deposition below 58 cm.
S, I 5°

58-63
CALC OOZE
2.5 Y 6/2 light brownish gray and 2.5 Y 6/4 light yellowish brown
Silty lutite with few forams
Scattered micronodules noted
S, I 10°

63-68
CALC OOZE
10 YR 6/4 light yellowish brown and 10 YR 5/6 yellowish brown
Slightly silty lutite with scattered forams
Scattered micronodules throughout
S, irregular

68-73
CALC OOZE
10 YR 6/4 light yellowish brown
Slightly silty lutite with scattered forams
Few micronodules

END OF CORE

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 2 GGC

Expedition 134 Station No. _____

Leg No. 7 Total Core Length 73 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	NANNO OOZE	6	7		TR	5	5	70	3	TR	4	TR		
9	CALC OOZE	8	2		TR	20	15	40	5	TR	10			
12	CALC OOZE	2	3		TR	6	4	65		TR	20			
20	CALC OOZE	4	3		1	25	2	35			30			
28	CALC OOZE	10	5		2	18	10	40		TR	15			
60	CALC OOZE	7	4		1	24	4	45		TR	15			
66	CALC OOZE	5	5		1	19	5	55		TR	10			
72	CALC OOZE	4	6		1	29	7	45		TR	8			

VISUAL CORE DESCRIPTION

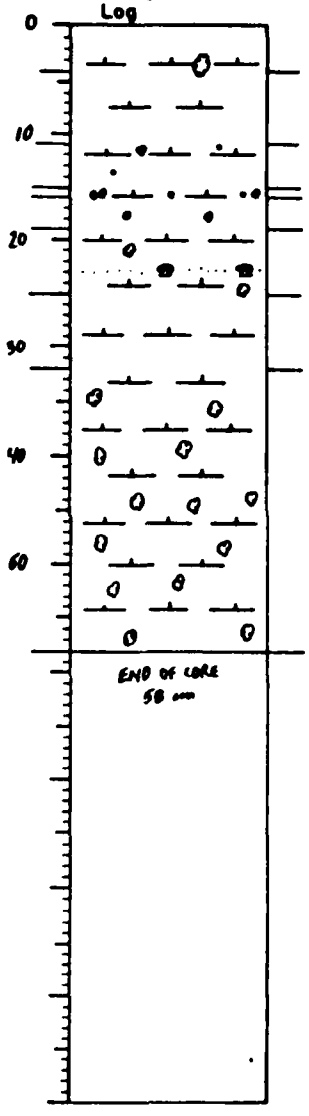
Ship KNORR Cruise 134 Leg 7 Sta. _____ Core No 3 GGC

Total Length 58 cm. Lat. 36°06.62'N Long. 19°40.79'E Depth 3184 m corr.

Core condition GOOD Date Described 1984, 1990 by P. MILLS

Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-4
NANNO OOZE
10 YR 6/4 light yellowish brown grading to 10 YR 6/3 pale brown
Moist soupy lutite; some silt with few forams
Slightly disturbed
S.

4-11
CALC OOZE
10 YR 6/4 light yellowish brown but grayer near base
Slightly silty moist lutite with scattered forams
Large 10 YR 4/4 dark yellowish brown mottle spanning contact with overlying unit
S.

11-15
CALC OOZE/MICRONODULES/PYRITE
10 YR 4/4 dark yellowish brown
Few faint 10 YR 6/3 pale brown mottles near 11 cm
Slightly silty lutite with scattered forams
S.

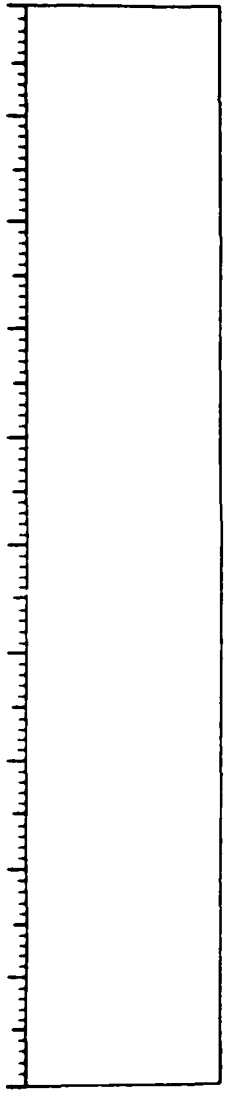
15-16
CALC OOZE/MICRONODULES/PYRITE
5 Y 3/2 dark olive gray
Scattered small 10 YR 5/4 mottles
Moist lutite with few forams
Sapropel?
S.

16-19
CALC OOZE
2.5 Y N6/gray
Few small 10 YR 5/4 yellowish brown mottles
Moist silty lutite with common forams
C.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No. 3 GGC

Lithologic Log



Detailed Description

19-25
CALC OOZE
10 YR 6/2 light brownish gray
Common 10 YR 5/1 gray and 10 YR 7/2 light gray mottles
Moist silty lutite with common forams and scattered shell fragments
Shell hash laminated at 23 cm.
G.

25-32
CALC OOZE
Intercalated 10 YR 6/2 light brownish gray and 10 YR 5/3 brown
Slightly silty lutite with common forams
Scattered shell fragments below 28 cm.

32-58
CALC OOZE WITH DETRITUS
10 YR 5.5/4 yellowish brown
Extensive 10 YR 6/3 pale brown mottling
Slightly silty lutite with common forams
5 Y 6/3 pale olive lamination at 35-36 cm.; few widely scattered shell fragments

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 3 GGC

Expedition 134 Station No. _____

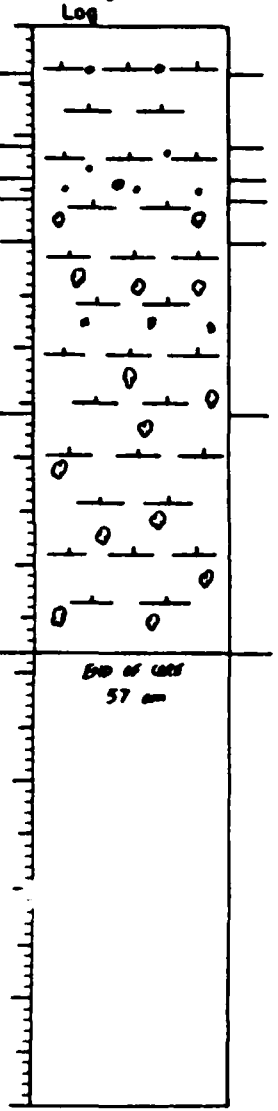
Leg No. 7 Total Core Length 58 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	NANNO OOZE	1	4		1	12	2	75	1	TR	4			
8	CALC OOZE	3	3		1	22	2	65	TR	TR	4			
13	CALC OOZE W/ MICRONODULES	1	15		1	28	3	50		TR	2			
15	CALC OOZE/ MICRONODULES/ PYRITE	1	30		TR	30	4	34		TR	1			
17	CALC OOZE	1	2		1	32	3	55	2	1	3			
23	CALC OOZE	1	2		1	29	3	60	2	TR	2			
30	CALC OOZE	4	1		2	34	2	55	TR		2			
50	CALC OOZE WITH DETRITUS	15	2			45	1	33			4			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 4GGC
Total Length 57 cm. Lat. 36°04.0'N Long. 20°14.4'E Depth 3299 m corr.
Core condition Good Date Described 2 MAY 1990 by P. MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-4
NANNO OOZE
10 YR 5/4 yellowish brown
Smooth moist lutite with scattered pteropod fragments and few forams
S.

4-11
CALC OOZE
10 YR 5/4 yellowish brown but grayer near base
Slightly silty moist lutite with scattered forams and pteropods
Upper contact is hash of forams, pteropods etc.
S.

11-14
CALC OOZE
10 YR 4/4 dark yellowish brown
Silty lutite with scattered forams
Scattered micronodules
S.

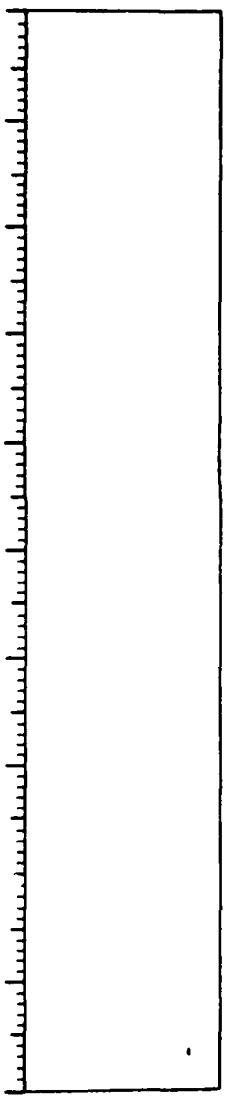
14-16
CALC OOZE WITH MICRONODULES/PYRITE
5 Y 3/2 dark olive gray
Few 10 YR 5/4 yellowish brown mottles near top of unit
Moist silty lutite
Sapropel
S.

16-20
NANNO OOZE
2.5 Y N5/gray grading to 2.5 Y 5/2 light brownish gray
Scattered mottling with intercalation of major colors
Silty lutite with scattered forams becoming common at unit base
G.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 4GGC

Lithologic Log



Detailed Description

20-36
CALC OOZE
2.5 Y 6/3 light yellowish gray/brown
Extensive mottling/marbling of unit with slight variations in color
Slightly silty lutite with scattered forams becoming common below 26 cm.
Scattered pteropod fragments from 26-30 cm.
G.

36-57
CALC OOZE
10 YR 5/4
Extensive mottling/marbling with slight color variations
Slightly silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 4 GGC

Expedition 134 Station No. _____

Leg No. 7 Total Core Length 57 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	NANNO OOZE	4	5		1	14	3	70	1	TR	2			
8	CALC OOZE	6	4		1	20	2	65	TR	TR	2			
12	CALC OOZE	2	6		1	30	5	55		TR	1			
16	CALC OOZE W/ MICRONODULES /PYRITE	TR	20		1	35	3	36	3		2			
19	NANNO OOZE	5	1		1	16	1	75		TR	3			
30	CALC OOZE	7	1		2	20	TR	40		TR	30			
54	CALC OOZE	4	3		1	21	2	50		TR	20			

VISUAL CORE DESCRIPTION

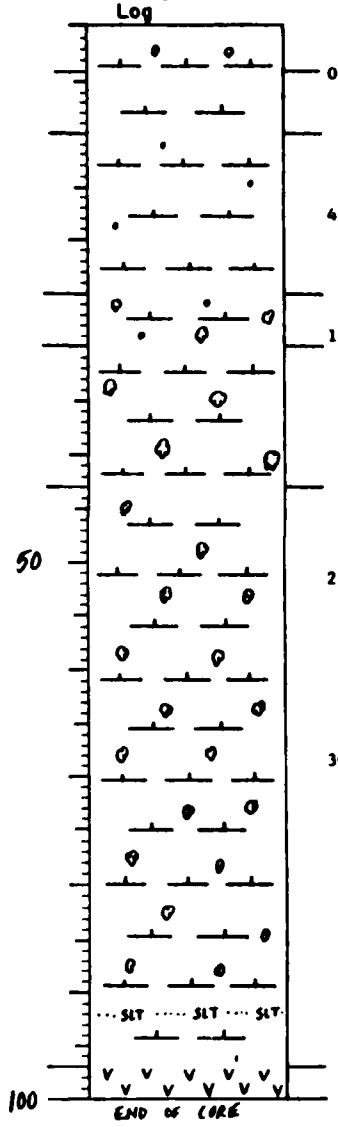
Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 5 GGC

Total Length 100 cm. Lat. 36° 10.22' N Long. 20°23.5' E Depth 3149 m corr.

Core condition EXCELLENT Date Described 3 MAY 1990 by P. MILLS

Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-4

NANNO OOZE
10 YR 6/3 pale brown
Faint 10 YR 5/2 grayish brown mottles
Smooth moist lutite with few forams
S, I, 5°

4-10

NANNO OOZE
10 YR 6/4 light yellowish brown
Smooth moist lutite with few forams
S.

10-25

CALC OOZE
10 YR 4/4 and 10 YR 4/6 dark yellowish brown above 18 cm., otherwise 10 YR 6/2 light brownish gray, 10 YR 5/3 brown and 10 YR 5/6 yellowish brown intercalations
Very moist slightly silty lutite with scattered forams above 20 cm.
Very high water content - unit slightly disturbed, scattered micronodules throughout
S, I, 5°

25-30

CALC OOZE
10 YR 6/2 light brownish gray
Scattered 10 YR 5/1 gray mottles throughout
Slightly silty lutite with scattered forams and pteropod fragments
Scattered micronodules
S.

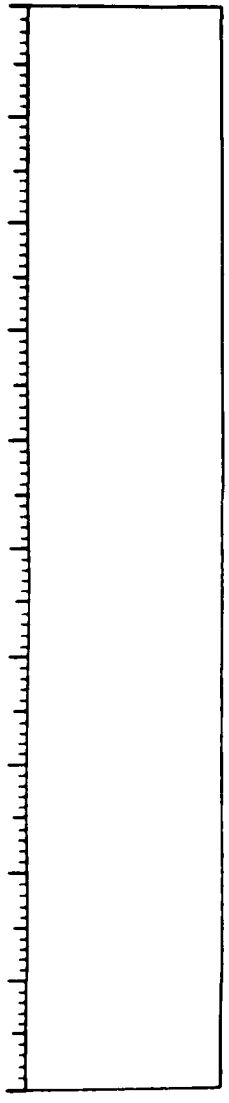
30-43

CALC OOZE WITH DETRITUS
10 YR 6/3 pale brown becoming 10 YR 6/2 below 38 cm.
Common mottling with intercalation of major colors
Slightly silty lutite with few forams and scattered pteropods
10 YR 5/2 grayish brown lamination at unit base
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 5 GGC

Lithologic Log



Detailed Description

43-97
CALC OOZE
10 YR 6/4 light yellowish brown alternating with
10 YR 7/3 very pale brown
Much of unit is extensively mottled with
intercalations of major unit colors
Common forams
Very S textural slightly concave downward

97-100
VOLCANIC ASH
10 YR 4/3 dark brown
Well washed silt to fine sand

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 5 GGC

Expedition 134 Station No. _____

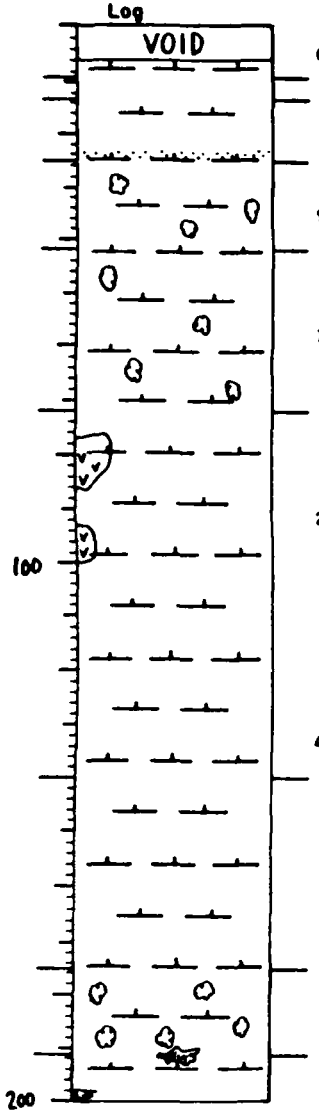
Leg No. 7 Total Core Length 100 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	NANNO OOZE	2	3		2	15	2	72	TR	TR	4			
7	NANNO OOZE	2	5		1	8	2	75	TR	TR	7			
16	CALC OOZE	3	7		1	22	7	60	TR	TR				
26	CALC OOZE	4	1		1	19	5	60		TR	10			
36	CALC OOZE WITH DETRITUS	15	2		2	19	2	30		TR	30			
70	CALC OOZE	10	3		1	18	3	45			20			
98	VOLCANIC ASH	5			91	3					1			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 6 GGC
Total Length 284 cm. Lat. 36°09.7'N Long. 20°28.8'E Depth 3070 m corr.
Core condition EXCELLENT Date Described 7 MAY 1982 by P. MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-9
NANNO OOZE
10 YR 5/4 yellowish brown
Slightly silty lutite with scattered forams
Few wavy laminations showing slight color variations; 0-6 cm. void due to shrinkage
S.

9-13
CALC OOZE
10 YR 5/5 yellowish brown
Slightly silty lutite with common forams
S.

13-25
CALC OOZE
10 YR 6/4 light yellowish brown
Slightly silty lutite becoming very silty to fine sand with abundant forams below 22 cm.
Many 10 YR 4/1 dark gray laminations above 17 cm. and below 21 cm.
S, irregular

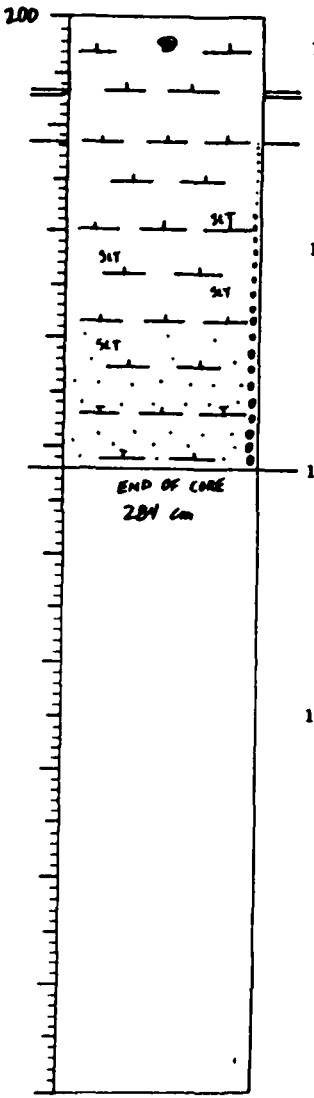
25-42
CALC OOZE
10 YR 6/5 light yellowish brown
Extensive mottling; mainly 10 YR 6/2 light brownish gray, 10 YR 7/3 very pale brown, 10 YR 3/1 very dark gray and 10 YR 4/4 dark yellowish brown
Silty lutite with scattered forams
Extensively mottled/disturbed section
S, I, 5° concave downward

42-72
CALC OOZE WITH DETRITUS
10 YR 6/3 pale brown becoming 10 YR 6/5 light yellowish brown below 52 cm.
Extensive mottling throughout; 10 YR 5/2 grayish brown above 52 cm.; 10 YR 6.5/4 light yellowish brown below 52 cm.
Silty lutite with common forams
Few 10 YR 3/1 very dark gray sandy mottles/laminations from 46-51 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 6 GGC

Lithologic Log



Detailed Description

72-140
NANNO OOZE
Main colors are 10 YR 6/2 light brownish gray, 10 YR 7/3 very pale brown, and 10 YR 6/4 light yellowish brown
Slightly silty lutite with scattered forams
No discernable stratigraphy - unit displays marble like mixing of colors; two large pockets of volcanic ash at 77-86 cm. and at 93-100 cm.

140-175
CALC OOZE WITH DETRITUS
10 YR 5/3 brown and 10 YR 6/4 light yellowish brown
Light yellowish brown lutite is slightly silty while brown lutite is slightly silty with forams
Major colors are interbedded in wedge like fashion with brown lutite containing abundant forams and other calc material
S.

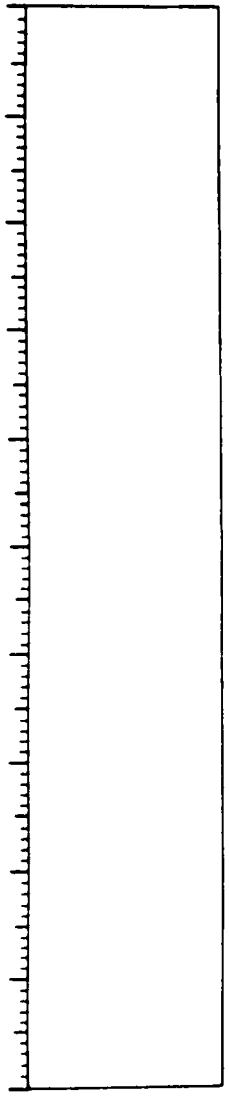
175-191
CALC OOZE
10 YR 6/3 pale brown becoming 10 YR 5/3 brown below 187 cm.
Common to extensive mottling with intercalation of major colors
Silty lutite with common to extensive forams and some pteropods?
2.5 Y 6/2 light brownish gray lamination from 185-187 cm.; large shell or fossil at 191 cm.
S, irregular

191-213
CALC OOZE
Mainly 10 YR 5/4 yellowish brown
Silty lutite with common to abundant forams; heaviest foram concentration noted in olive gray lutite
Unit displays marbled appearance with 10 YR 7/1, 6/1, 5/2 and 5 Y 3/2 dark olive gray fish remnant? at 200 cm.; shell fragment at 207 cm.
Very S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 6 GGC

Lithologic Log



Detailed Description

213-214
CALC OOZE
5 Y 3.5/2 olive gray
Smooth lutite
S.

214-223
CALC OOZE WITH MICRONODULES
5 Y 6/2 light olive gray mixing with 5 Y 5/1 gray below 220 cm.
Smooth lutite with few forams
Unit is largely 10 YR 6/8 brownish yellow from 215-219 cm.; thin 10 YR 2/2 very dark brown laminations at top and bottom contacts
S.

223-284
CALC OOZE WITH MICRONODULES
5 Y 3.5/2 olive gray
Smooth lutite grading to silty below 245 cm. becoming silt to fine sand below 252 cm. grading to sandy below 268 cm. with abundant forams and other calc material
Entire unit may be a single large debris flow; well graded bed

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 6 GGC

Expedition 134 Station No. _____

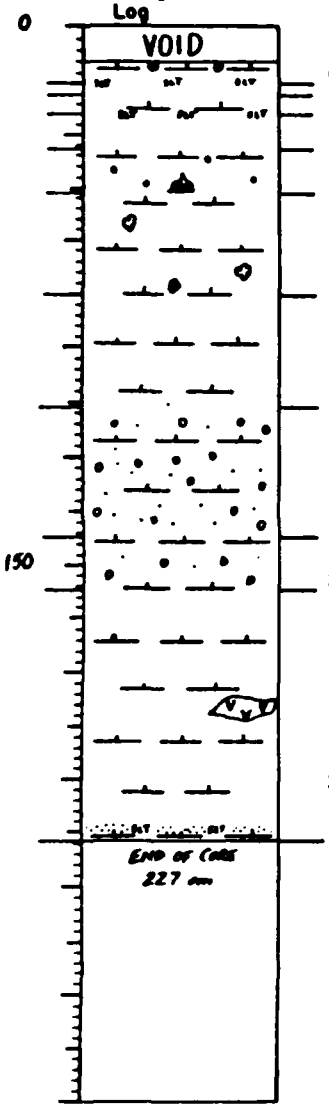
Leg No. 7 Total Core Length 284 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
6	NANNO OOZE	3	5		1	12	3	70	TR	TR	6				
10	CALC OOZE	5	6		1	16	3	60	1		8				
18	CALC OOZE	10	4		1	12	3	50	TR		20				
33	CALC OOZE	1	7		1	14	2	65	TR		10				
60	CALC OOZE WITH DETRITUS	15	3		TR	28	4	30		TR	20				
105	NANNO OOZE	3	2		TR	10	6	71		TR	8				
160	CALC OOZE WITH DETRITUS	15	3		1	22	4	30	TR		25				
182	CALC OOZE	4	2		TR	15	2	65	2		10				
200	CALC OOZE	7	4		TR	18	5	40	1	TR	25				
213	CALC OOZE	1	9		TR	12	2	60		TR	15	TR			
218	CALC OOZE	2	1		TR	19	10	60		TR	8				
240	CALC OOZE W/ MICRONODULES	TR	15		TR	23	5	50	TR		7				
280	CALC OOZE W/ MICRONODULES	1	15		TR	19	15	40	5		5	TR			TR

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 9GGC
Total Length 227 cm. Lat. 35°52.1'N Long. 20°47.2'E Depth 3220 m
Core condition EXCELLENT Date Described 8 MAY 1990 by P. MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-15
CALC OOZE
10 YR 5/4 yellowish brown
Few faint 10 YR 4/2 dark grayish brown mottles near core top
Slightly silty lutite with scattered forams
Very silty layer forms basal contact; 0-10 cm. shrinkage void
S.

15-18
CALC OOZE
10 YR 5/4 yellowish brown but slightly redder than overlying unit
Slightly silty lutite with scattered forams
S.

18-24
CALC OOZE
10 YR 5/3 brown
Slightly silty lutite
Many 10 YR 4/2 dark grayish brown fine laminations throughout; very silty lamination at 24 cm.
S.

24-34
CALC OOZE
10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown grading to 5 Y 6/1 gray
Silty lutite with scattered forams; few pteropods near top of unit
Very distinct 2.5 Y 5/2 grayish brown lamination from 28-29 cm.
S.

34-46
CALC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray
Very silty lutite with abundant forams and pteropods
Sapropel; faint variations in color reveal laminations; intact pteropod at 43 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 9GGC

Lithologic Log

Detailed Description

46-75
CALC OOZE
5 Y 5/1 gray grading to 2.5 Y 6/2 light brownish gray grading to 10 YR 5/3 brown
Scattered mottling with intercalation of major colors
Slightly silty lutite with common forams
Pteropod fragments common above 57 cm.; sandy mottle at 74 cm.
S, disturbed

NOTE: No normal stratigraphic record exists below 75 cm.. The remainder of the core shows dramatic folds and marbling of colors and textures; silty regions at 77 cm. and 82 cm.; few pebbles above 82 cm.

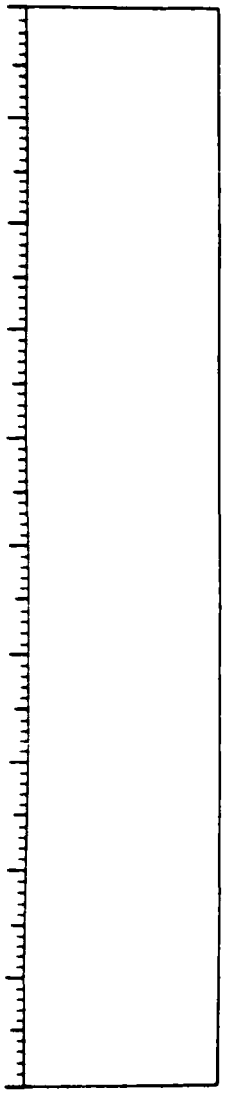
75-106
CALC OOZE
10 YR 5/4 yellowish brown
5 Y 7/2 light gray regions above 83 cm.
Slightly silty lutite with scattered forams
Disturbed I 50°; contact runs from 93 cm. to 106 cm.

106-142
CALC OOZE
10 YR 5/4, 6/4, 7/4 yellowish brown and 10 YR 6/2 light brownish gray
Entire unit is marbled and appears to be more heavily mixed below 120 cm.
Silty lutite with common forams with abundant sand and pebble size grains
Abundant slatey pebbles in light brownish gray lutite
Disturbed I 45° contact spans 133 cm.-142 cm.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No. 9 GGC

Lithologic Log



Detailed Description

142-157
CALC OOZE
10 YR 5/4 yellowish brown, 10 YR 6/3 pale brown, 5 Y 7/3 pale yellow and 2.5 Y 3/2 very dark grayish brown
Silty lutite with scattered forams and slatey pebbles from concentration higher in darker lutite
Unit shows folded and over turned laminations of major colors
S, I, 30°

157-227
CALC OOZE WITH DETRITUS
Mainly 10 YR 5/4 yellowish brown and 10 YR 6/3 pale brown
Slightly silty lutite with scattered forams; foram content varies between major colors
Pocket of volcanic ash at 193 cm.; very silty lamination at 224 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 9 GGC

Expedition 134 Station No. _____

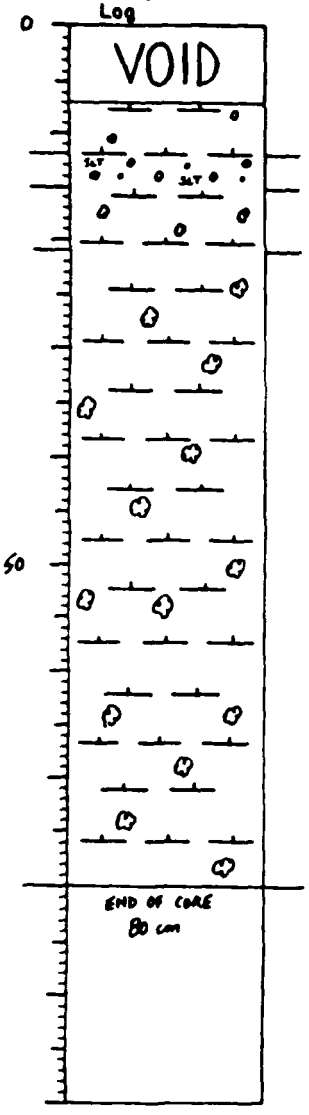
Leg No. 7 Total Core Length 227 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
11	CALC OOZE	3	5		1	13	6	60	2	TR	10	TR		
16	CALC OOZE	4	5		1	15	4	66	TR	TR	5			
21	CALC OOZE	10	3		TR	24	3	50	TR	TR	10			
30	CALC OOZE	2	10		TR	29	5	50	TR	TR	4			
40	CALC OOZE W/ MICRONODULES	2	20		TR	24	6	40	4		4			
60	CALC OOZE	10	1		TR	30	10	33	1	TR	15			
120	CALC OOZE	5	2		1	36	4	42	TR	TR	10			
148	CALC OOZE	6	3		1	18	12	50	TR	TR	10			
188	CALC OOZE	4	3		TR	15	3	65	TR	TR	10			
224	CALC OOZE WITH DETRITUS	15	2		3	30	2	33		TR	15			

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 7 Sta. _____ Core No 14 GGC
Total Length 80 cm. Lat. 33°26.31'N Long. 25°04.24'E Depth 2400 m corr.
Core condition EXCELLENT Date Described MAY 1990 by P. MILLS
Physiographic location CENTRAL MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 5/4 yellowish brown
Faint intercalations throughout
Slightly silty lutite with common forams
Unit becomes 10 YR 4/2 dark grayish brown then 10 YR 4/4 dark yellowish brown from 10-12 cm.; 0-7 cm. shrinkage void
S.

12-15
CALC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray
Abundant small 10 YR 5/4 mottles/flecks
Silty moist lutite with scattered forams
Scattered pteropod fragments
S.

15-21
CALC OOZE
2.5 Y 5/2 grayish brown grading to 2.5 Y 7/2 light gray
Scattered 10 YR 5/4 yellowish brown mottles and scattered intercalations
Slightly silty lutite with scattered forams
G.

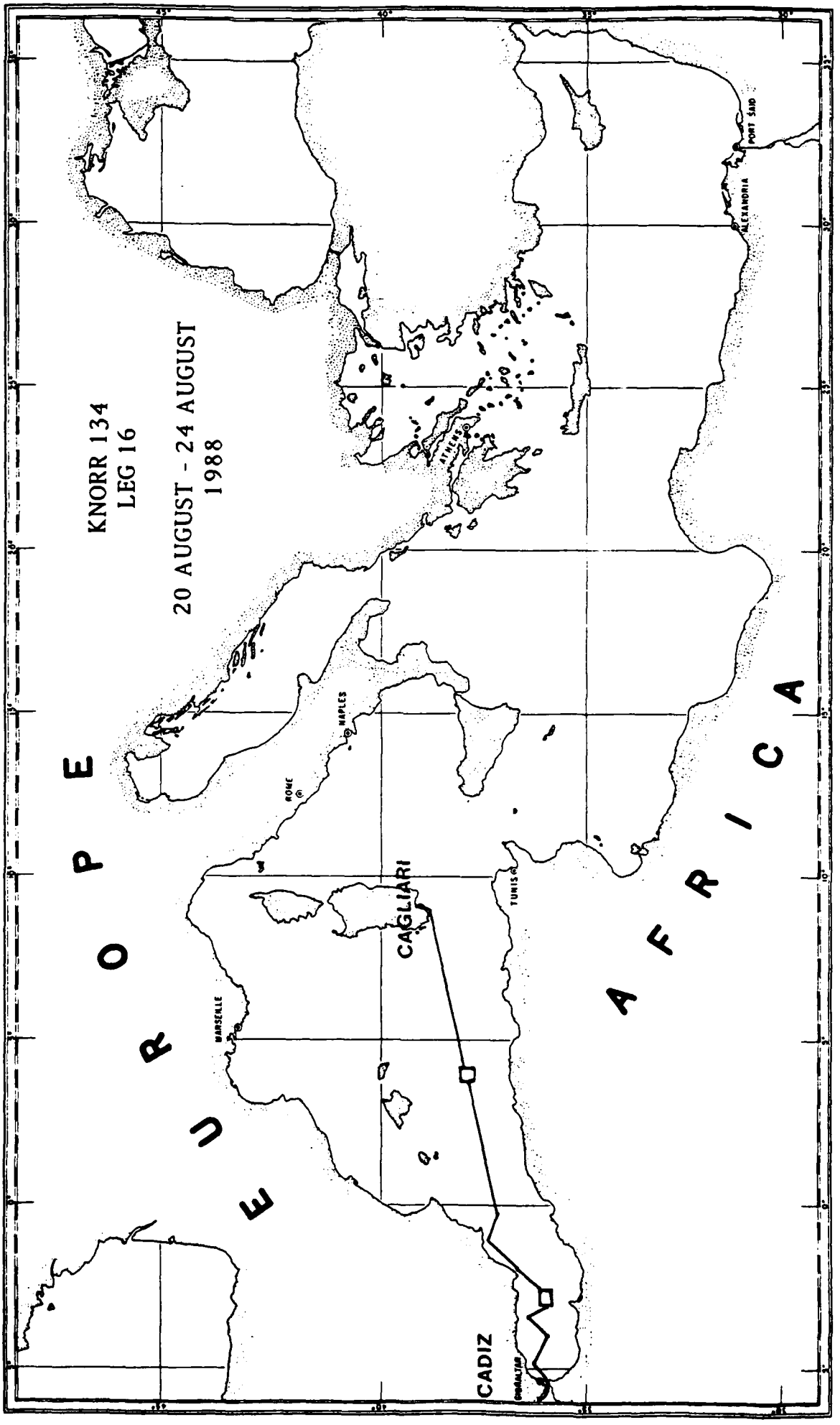
21-80
CALC OOZE
Dominant colors are alternately 10 YR 6/4 light yellowish brown and 10 YR 7/2 light gray
Common to extensive intercalations throughout
Slightly silty lutite with common forams
Scattered pteropod fragments above 40 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 14 GGC
Expedition 134 Station No. _____
Leg No. 7 Total Core Length 80 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE	1	8		2	12	4	55	3	TR	15			
14	CALC OOZE W/ MICRONODULES /PYRITE	2	15		2	21	10	40	TR	TR	10			
18	CALC OOZE	3	2		1	8	5	65	1		15			
40	CALC OOZE	5	2		1	24	3	35	TR	TR	25			
79	CALC OOZE	5	3		3	32	4	45	TR	TR	8	TR		


KNORR 134
LEG 16
20 AUGUST - 24 AUGUST
1988
EUROPE
AFRICA
CAGLIARI
CADIZ
ATHENS
NAPLES
ROME
MARSEILLE
TUNIS
PORT SAID
ALEXANDRIA
GIBRALTAR

********** STATION DATA RETRIEVAL **********
********** DATE: 7-DEC-92 09:11 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
KNR	134	16	0000	0000	17	88 821	38 0.5'N	3 59.5'E	6	144.83	0001	2861.	166.	0000	21	3308	
KNR	134	16	0000	0000	17	88 821	38 0.0'N	3 51.5'E	6	144.83	0002	2575.	222.	0000	21	3308	
KNR	134	16	0000	0000	17	88 822	37 30.3'N	0 0.2'W	1	109.70	0003	2079.	0.	0000	21	0000	
KNR	134	16	0000	0000	17	88 823	36 9.3'N	3 15.5'W	9	109.63	0004	878.	104.	0000	21	3322	
KNR	134	16	0000	0000	17	88 823	36 9.6'N	3 15.9'W	1	109.63	0005	873.	0.	0000	21	0000	
KNR	134	16	0000	0000	17	88 823	36 27.1'N	3 52.8'W	1	109.63	0006	826.	127.	0000	21	3328	
KNR	134	16	0000	0000	17	88 823	36 27.2'N	3 52.6'W	1	109.63	0007	826.	267.	0000	21	3880	
KNR	134	16	0000	0000	17	88 823	35 59.4'N	4 23.3'W	1	109.54	0008	1349.	260.	0000	21	3322	
KNR	134	16	0000	0000	17	88 824	35 59.0'N	4 25.2'W	9	109.54	0009	1330.	153.	0000	21	3352	

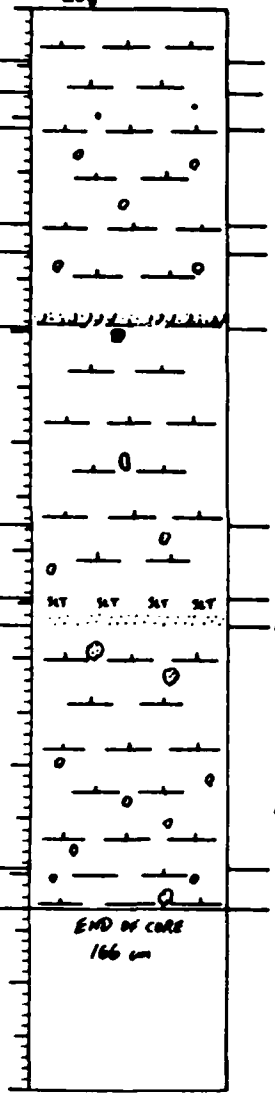
THERE WERE 9 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 16 Sta. 1 Core No 1GGC
Total Length 166 cm. Lat. 38°00.5'N Long. 3°59.5'E Depth 2861 m corr.
Core condition EXCELLENT Date Described 20 APR. 1990 by P. MILLS
Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-09
CALC OOZE
10 YR 5/4 yellowish brown
Silty lutite with common forams
S.

09-15
CALC OOZE
2.5 Y 6/2 light brownish gray
Smooth lutite with fine black silty particles
Abundant 10 YR 5/4 microlaminations from 10-13 cm.
S.

15-22
CALC OOZE
2.5 Y 6/3 light yellowish brown
Silty lutite with common forams
Scattered micronodules: silty black particles increase toward unit base
S.

22-40
CALC OOZE
2.5 Y 6/3 light yellowish brown
Few faint 2.5 Y 6/2 light brownish gray mottles
Slightly silty lutite with common forams
Unit contains many 10 YR 5/6 yellowish brown laminations below 30 cm.
G.

40-45
CALC OOZE
2.5 Y 5.5/2 light brownish gray
Silty lutite with scattered forams
Few 10 YR 5/6 yellowish brown laminations above 42 cm.; scattered yellowish brown regions below 42 cm.
G.

45-59
CALC OOZE WITH DETRITUS
2.5 Y 5/2 grayish brown
Scattered faint 10 YR 4/1 dark gray mottles above 50 cm.
Slick slightly silty lutite becoming siltier below 51 cm.
Few crossbedded silty laminations near unit base; 10 YR 5/6 lamination at 50 cm.
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 16 Sta. 1 Core No 1GGC

Lithologic Log

Detailed Description

59-95
CALC OOZE
2.5 Y 6/2 light brownish gray
Slightly silty lutite with common forams; larger forams below 90 cm.
Unit contains shell fragments from 59-61 cm., 83-86 cm. small bivalve noted at 84 cm.; 10 YR 5/6 lamination at 79 cm.
S.

95-109
CALC OOZE
2.5 Y 5/2 grayish brown
Few faint 10 YR 4/1 dark gray mottles
Smooth lutite
Few 10 YR 5/6 microlaminations below 102 cm.
G.

109-114
CALC OOZE
2.5 Y 5/2 grayish brown
Silt to fine sand with scattered forams near unit base
S.

114-159
CALC OOZE
Alternating 10 YR 5/3 brown and 2.5 Y 5/2 grayish brown
Few silty mottles above 125 cm.; common but faint 5 Y 4/1 dark gray mottles below 138 cm.
Slightly silty lutite with scattered forams
Few black flecks 142 cm.

159-166
HIGHLY CALC CLAY
5 Y 5/2 olive gray
Common but faint 5 Y 4/1 dark gray mottles
Smooth lutite
Few large mottles near base of unit

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 1 GGC

Expedition 134 Station No. 1

Leg No. 16 Total Core Length 166 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Calc ooze	1	8			20	3	63	1		4			
12	Calc ooze	4	3		1	40	TR	32			20			
18	Calc ooze	1	3		TR	36	5	50	1	TR	4			
30	Calc ooze	1	1			23	2	65		TR	8			
42	Calc ooze	3	2			27	2	60		TR	6			
52	Calc ooze w/ detritus	15	2			28		25		TR	30			
77	Calc ooze	2	3			14	1	75			5			
103	Calc ooze	6	4			20	TR	55		TR	15			
112	Calc ooze	10	1			42	2	25	TR		20	1*		
140	Calc ooze	2	3		TR	39	1	50		TR	5			
164	Highly calc clay	1	2		1	69		20		TR	7			
	* NOTE: SLIDE CONTAINS SEVERAL UNCOMMON SPECIES													
	THOUGHT TO BE FRESH WATER DERIVED													

VISUAL CORE DESCRIPTION

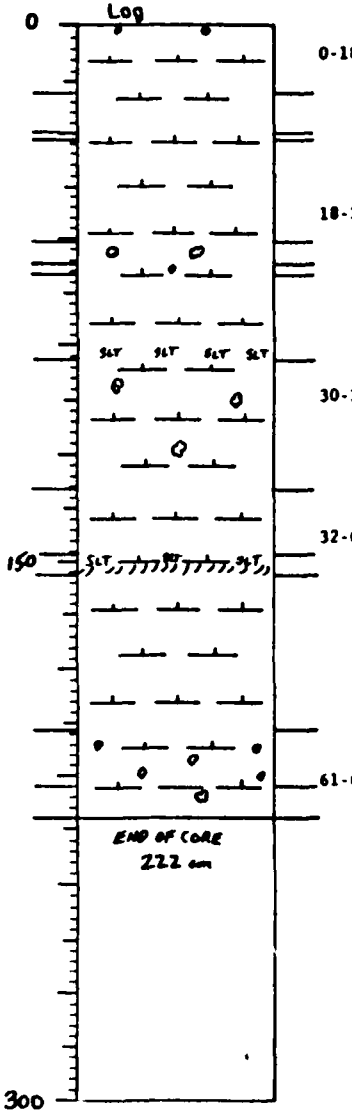
Ship KNR Cruise 134 Leg 16 Sta. 1 Core No 2 GGC

Total Length 222 cm. Lat. 37°59.98'N Long 3°51.52'E Depth 2575 m corr

Core condition EXCELLENT Date Described 28 APR. 1978 by P. MILLS

Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-18
CALC OOZE
10 YR 5/4 yellowish brown
Few faint 10 YR 5/2 grayish brown mottles above 5 cm.
Slightly silty lutite with common forams
S.

18-30
CALC OOZE
2.5 Y 6/3 light yellowish brown/gray
Slightly silty lutite with few forams above 20 cm
Abundant finely microlaminated layers 10 YR 5/3 brown from 22-28 cm.; few darker streaks and laminations below 28 cm. scattered black flecks
S.

30-32
CALC OOZE
5 Y 4.5/2 olive gray
Smooth lutite
10 YR 6/8 brownish yellow lamination at 31 cm.
Very S.

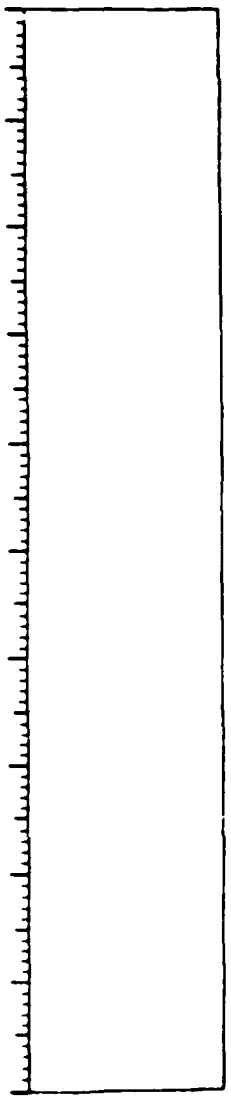
32-61
CALC OOZE
2.5 Y 6/2 light brownish gray becoming yellower below 50 cm.
Scattered 10 YR 6/8 brownish yellow streaks above 36 cm.
Silty lutite with common forams
Thin lamination of abundant forams forms upper contact; scattered brownish yellow regions below 52 cm.
C.

61-67
CALC OOZE
2.5 Y 5/2 grayish brown
Common 10 YR 5/8 yellowish brown mottles
Smooth lutite with forams grading from common to scattered
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 16 Sta. 1 Core No. 2GGC

Lithologic Log



Detailed Description

67-70
CALC OOZE
2.5 Y 5/2 grayish brown
Faint 2.5 Y 4/2 dark grayish brown mottles
Smooth moist lutite
S.

70-94
CALC OOZE
2.5 Y 5/2 grayish brown
Slightly silty lutite with scattered forams above 75 cm.
2.5 Y 5/4 light olive brown lamination at 79 cm.; unit becomes siltier near base and contains few very silty laminations below 90 cm.
S.

94-130
CALC OOZE
2.5 Y 5.5/2 light brownish gray with slight color variations
Scattered mottling with intercalation
Slightly silty lutite with forams ranging from scattered to common
Few 10 YR 5/6 yellowish brown laminations from 113-115 cm.
G.

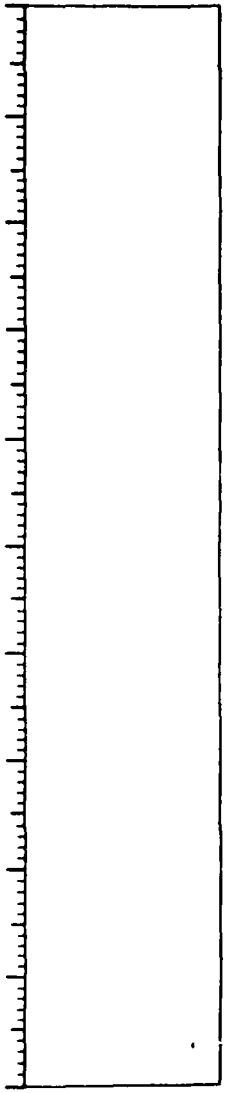
130-148
CALC OOZE
2.5 Y 5/2 grayish brown
Slightly silty lutite; few forams at 133 cm.
Faint 2.5 Y 5/6 light olive brown laminations at 140 cm.
S.

148-154
CALC OOZE WITH DETRITUS
2.5 Y 5/2 grayish brown
Interbedded silty and very silty lutite
Unit exhibits wavy crossbedding of silty layers
S.

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 16 Sta. 1 Core No 2GGC

Lithologic Log



Detailed Description

154-197
CALC OOZE
2.5 Y 5/2 grayish brown; but slightly yellower in some areas
Moist slightly silty lutite with common forams
G.

197-213
CALC OOZE
2.5 Y 5/3 grayish olive/brow
Faint mottles throughout
Slightly silty lutite with scattered forams below 209 cm.
Scattered 10 YR 5/6 regions; few laminations at 211 cm.
G, mottled.

213-222
HIGHLY CALC CLAY WITH DETRITUS
5 Y 4/1 very dark gray mottle at 216 cm.
Smooth lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 2 GGC

Expedition 134 Station No. 1

Leg No. 16 Total Core Length 222 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Calc ooze	3	4			55	4	22	1	TR	15			
25	Calc ooze	8	3			40	TR	39		TR	10	TR		
31	Calc ooze	5	2			23	TR	50			20			
50	Calc ooze	2	3			30	2	58			5			
65	Calc ooze	1	10			29	TR	50		TR	10			
69	Calc ooze	1	1			60	TR	32		TR	6			
85	Calc ooze	8	1			55		26			10			
120	Calc ooze	5	1			36	1	50			7			
140	Calc ooze	7	1			22		40		TR	30			
151	Calc ooze w/ Detritus	15	1			27	1	35		TR	20	1*		
180	Calc ooze	2	1			35	1	55	TR		6			
205	Calc ooze	10	2		TR	58	TR	20			10			
220	Highly calc clay with detritus	15	1		1	56		7			20			

* NOTE: THOUGHT TO BE FRESH WATER SPECIES

VISUAL CORE DESCRIPTION

Page 1 of 1

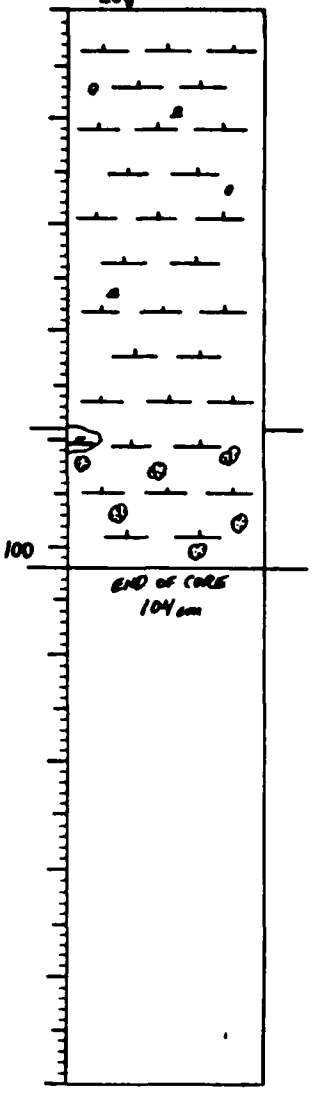
Ship KNR Cruise 134 Leg 16 Sta. 3 Core No 4GGC

Total Length 104 cm. Lat. 36°09.27'N Long 3°15.54'W Depth 878 m corr.

Core condition EXCELLENT Date Described 29 APR, 1990 by P. MILLS

Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-78

CALC OOZE
5 Y 5/2 olive gray
Few widely scattered mottles 10 YR 4/2 olive gray
Slightly silty lutite with common forams grading to abundant
Widely scattered shell fragments throughout; few micronodules
C.

78-104

CALC OOZE
5 Y 5/2 olive gray
Common to extensive mottling throughout; 5 Y 4/2 olive gray
Silty lutite with common forams; forams abundant within mottles
Scattered shell fragments; foram sand lens at 78-80 cm; scattered micronodules

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: IONR Core No. 4 GGC

Expedition 134 Station No. 3

Leg No. 16 Total Core Length 104 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	Calc ooze	2	1			41	3	50	TR	TR	3	TR		TR
50	Calc ooze	3	1		TR	33	4	55	1		3			
90	Calc ooze	3			TR	39	2	50			5	1		TR
103	Calc ooze	2	1		1	55	1	32			8			

VISUAL CORE DESCRIPTION

Page 1 of 1

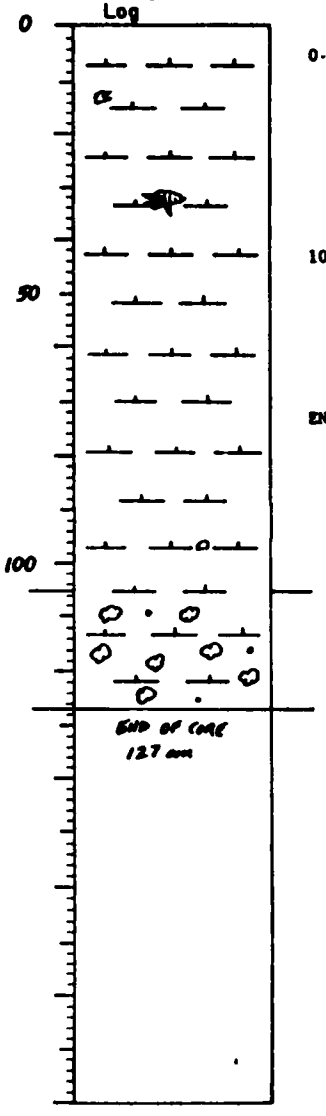
Ship IOWR Cruise 134 Leg 16 Sta. ____ Core No 6 GGC

Total Length 127 cm. Lat. 36°27.15'N Long. 9°52.9'W Depth 826 m corr.

Core condition EXCELLENT Date Described 25 AM, 1970 by P. MILLS

Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-105
CALC OOZE
5 Y 5/2 olive gray
Slightly silty lutite with common to scattered forams
Scattered micronodules throughout; shell fragments at 14, 43, 99 cm.; large intact shell 3 cm. X 3 cm. at 31 cm.
G.

105-127
CALC OOZE WITH DETRITUS
5Y 5/2 olive gray
Abundant 5 Y 4/2 olive gray mottles
Slightly silty lutite with scattered forams and shell fragments
Scattered micronodules; void 122-125 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 6 GGC

Expedition 134 Station No. _____

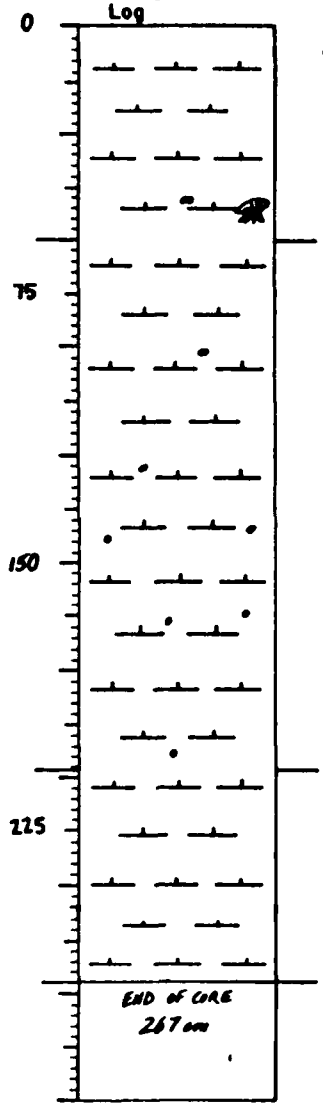
Leg No. 16 Total Core Length 127 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Calc ooze	3	TR		2	39	1	50			5			TR
60	Calc ooze	6			3	31	2	50	TR	TR	8	TR		TR
120	Calc ooze w/ detritus	15	1		2	45	1	26		TR	10	TR		TR

VISUAL CORE DESCRIPTION

Ship KNR Cruise 134 Leg 16 Sta. 4 Core No 7GGC
Total Length 267 cm. Lat. 36°27.2'N Long. 8°52.6'W Depth 826 m corr.
Core condition EXCELLENT Date Described 25 APR, 1980 by P MILLS
Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-60
CALC OOZE
5 Y 5/2 olive gray
Silty lutite with abundant forams
Top 18 cm. slightly disturbed; two shell fragments noted from 49-53 cm.
G.

60-208
CALC OOZE WITH SOME CONCENTRATIONS OF DETRITUS
5 Y 5/2 olive gray
Slightly silty lutite with scattered forams
Several regions contain greater abundances of forams; scattered shell fragments throughout; scattered micronodules noted below 140 cm.
G.

208-267
CALC OOZE WITH SOME CONCENTRATIONS OF DETRITUS
5 Y 5/2 olive gray
Common to extensive 5 Y 4/2 olive gray mottling
Slightly silty lutite with common forams and scattered pteropod or shell fragments throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 7 GGC

Expedition 134 Station No. 4

Leg No. 16 Total Core Length 267 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
17	Calc ooze	10	3		3	34	1	45		TR	4	TR		
100	Calc ooze w/ detritus	15	1		2	36	1	40		TR	5			
180	Calc ooze	8	1		3	35	2	45		TR	5	TR		
230	Calc ooze	10	1		2	40	2	37		TR	8	TR		TR
266	Calc ooze w/ detritus	15	3		2	45	TR	25		TR	10	TR		TR

VISUAL CORE DESCRIPTION

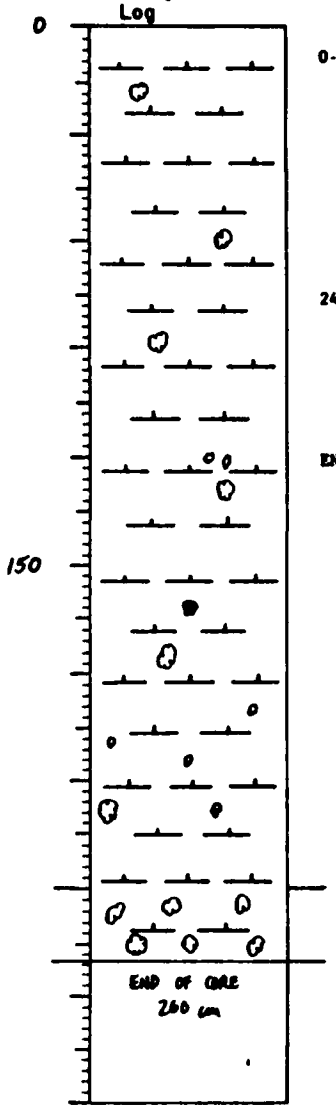
Ship KNR Cruise 134 Leg 16 Sta. 5 Core No 8 GGC

Total Length 260 cm. Lat. 35°59.39'N Long. 4°24.35'W Depth 1349 m corr

Core condition EXCELLENT Date Described 26 APR. 1990 by P MILLS

Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-240
CALC OOZE
5Y 5/2 olive gray
Scattered 5Y 4.5/2 olive gray mottling and burrowing throughout
Slightly silty lutite with common forams
Few 5Y 3/2 dark olive gray mottles from 115-125 cm. and from 200-225 cm.; scattered micronodules below 170 cm.; few shell fragments noted in interval 160-170 cm.
C.

240-260
CALC OOZE
5 Y 5/2 olive gray
Extensive 5Y 4.5/2 olive gray mottling
Slightly silty lutite with common forams
Scattered micronodules visible throughout; several regions show increased foram concentrations

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 8 GGC

Expedition 134 Station No. 5

Leg No. 16 Total Core Length 260 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	Calc ooze	5	1		TR	39	1	50		TR	4	TR		
100	Calc ooze	7	1		TR	28	1	60		TR	3			
200	Calc ooze	10			TR	25	1	60	TR	TR	4			
257	Calc ooze	6	1		1	23	1	65		TR	3	TR		

VISUAL CORE DESCRIPTION

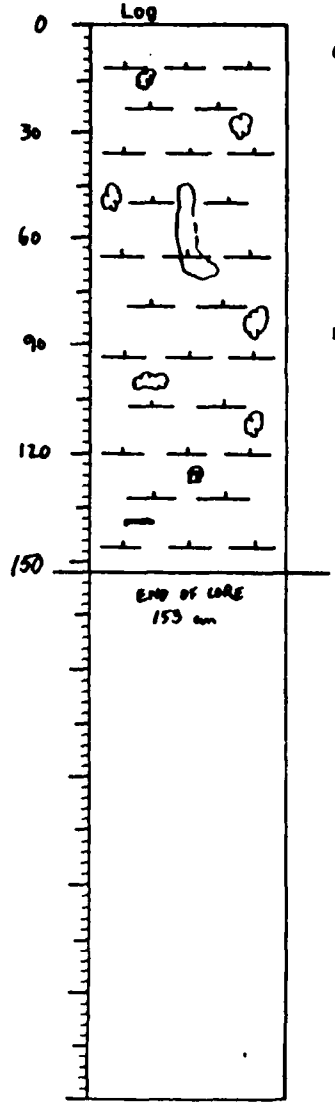
Ship KNR Cruise 134 Leg 16 Sta. 5 Core No 9GGC

Total Length 153 cm. Lat. 39°39.06'N Long. 4°25.16'W Depth 1330 m corr.

Core condition EXCELLENT Date Described 26 APR 1990 by P MILLS

Physiographic location WESTERN MEDITERRANEAN SEA

Lithologic Log



Detailed Description

0-153

CALC OOZE
5Y 5/3 olive
Scattered large 5Y 5/2 olive gray mottles and burrows
Slightly silty lutite with common forams
Large, but very faint 2.5 Y 5/4 light olive brown vertically oriented feature from 40-65 cm.; scattered groups of black flecks below 60 cm.; few shell fragments or other macroscopic debris noted below 110 cm.; 10 YR 4/6 dark yellowish brown mottle at 107 cm.; 5Y 3/2 dark olive gray burrow at 13 8 cm.

END OF CORE

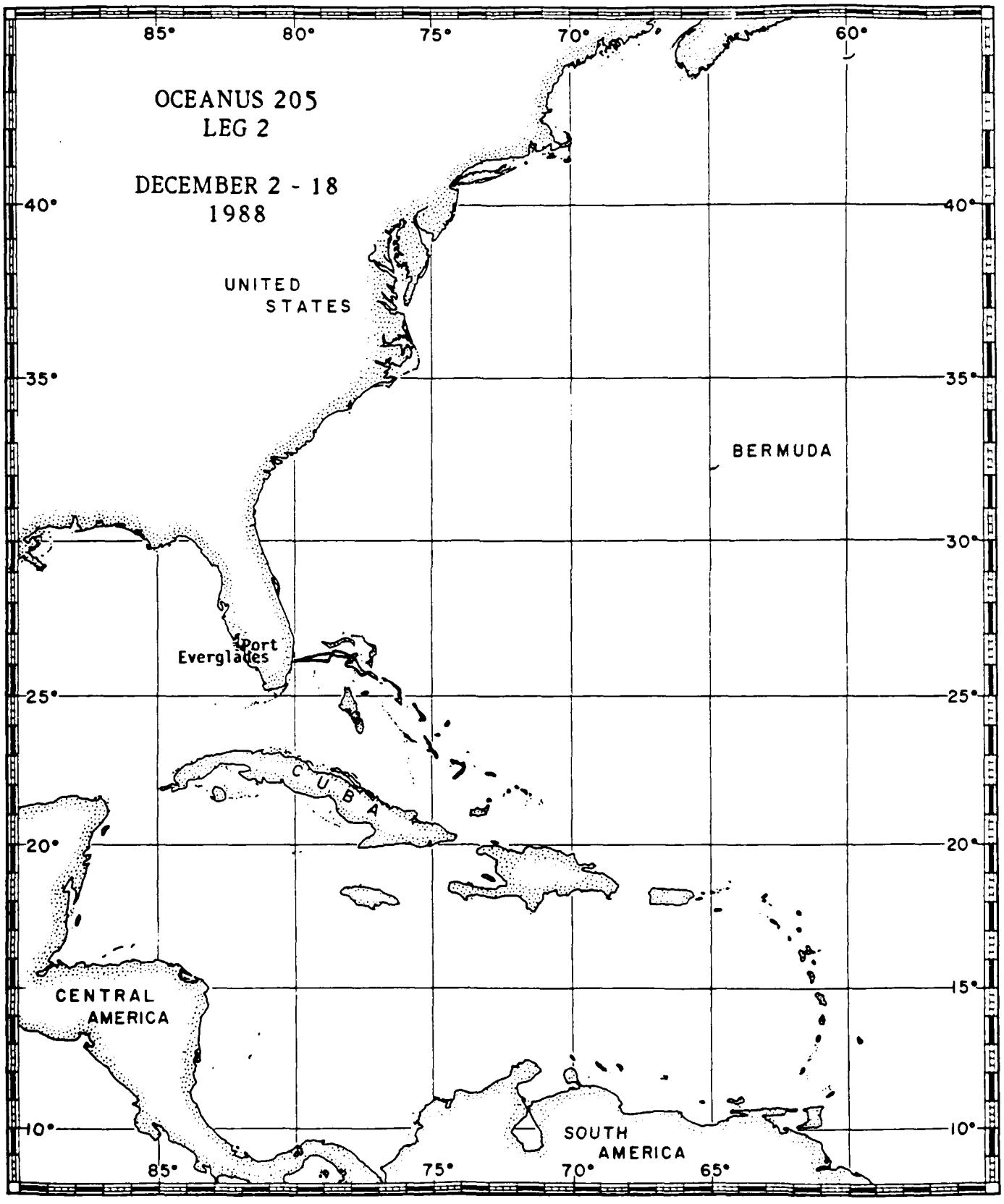
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: KNR Core No. 9 GGC

Expedition 134 Station No. 5

Leg No. 16 Total Core Length 153 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Calc ocze w/ detritus	15	2		1	27	1	50			4	TR		
60	Calc ooze	10	3		1	34	TR	45			7	TR		
110	Calc ooze	7	2		TR	27	1	55	TR	TR	8			
138	Calc ooze	7	5		1	29	4	50	1	TR	3			
152	Calc ooze	2	1		1	22	4	65	TR	TR	5			


OCEANUS 205
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
OCE	205	2	0002	0000	17	8812 3	26 10.5'N	77 39.0'W	6	80.67	0002	708.	15.	0000	8	0000	
OCE	205	2	0004	0000	16	8812 3	26 10.3'N	77 30.0'W	6	80.67	0004	714.	133.	0000	8	3302	
OCE	205	2	0004	0000	26	8812 3	26 10.3'N	77 30.0'W	6	80.67	0004	714.	31.	0000	8	3332	
OCE	205	2	0006	0000	16	8812 3	26 10.2'N	77 38.4'W	6	80.67	0006	698.	290.	0000	8	3002	
OCE	205	2	0007	0000	16	8812 3	26 8.2'N	77 44.1'W	6	80.67	0007	1320.	595.	0000	8	3302	
OCE	205	2	0007	0000	26	8812 3	26 8.2'N	77 44.1'W	6	80.67	0007	1320.	63.	0000	8	3322	
OCE	205	2	0009	0000	16	8812 4	26 6.9'N	77 45.4'W	6	80.67	0009	1529.	297.	0000	8	3702	
OCE	205	2	0009	0000	26	8812 4	26 6.9'N	77 45.4'W	6	80.67	0009	1529.	86.	0000	8	3302	
OCE	205	2	0012	0000	17	8812 4	26 10.2'N	77 42.3'W	6	80.67	0012	1151.	49.	0000	8	3052	
OCE	205	2	0015	0000	15	8812 4	26 19.9'N	77 48.7'W	6	80.67	0015	934.	260.	0000	8	3702	
OCE	205	2	0015	0000	26	8812 4	26 19.9'N	77 48.7'W	6	80.67	0015	934.	85.	0000	8	3702	
OCE	205	2	0017	0000	15	8812 5	26 19.9'N	77 48.8'W	6	80.67	0017	935.	447.	0000	8	3308	
OCE	205	2	0017	0000	26	8812 5	26 19.9'N	77 48.8'W	6	80.67	0017	935.	99.	0000	8	3302	
OCE	205	2	0019	0000	15	8812 5	26 6.4'N	77 45.0'W	6	80.67	0019	1583.	273.	0000	8	3737	
OCE	205	2	0019	0000	26	8812 5	26 6.4'N	77 45.0'W	6	80.67	0019	1583.	69.	0000	8	3332	
OCE	205	2	0020	0000	17	8812 5	26 7.0'N	77 44.1'W	6	80.67	0020	1465.	54.	0000	8	3332	
OCE	205	2	0021	0000	15	8812 5	26 7.1'N	77 44.2'W	6	80.67	0021	1468.	607.	0000	8	3338	
OCE	205	2	0021	0000	26	8812 5	26 7.1'N	77 44.2'W	6	80.67	0021	1468.	5.	0000	8	0000	
OCE	205	2	0022	0000	17	8812 5	26 9.4'N	77 43.2'W	6	80.67	0022	1227.	50.	0000	8	3322	
OCE	205	2	0023	0000	15	8812 5	26 9.6'N	77 43.1'W	6	80.67	0023	1222.	754.	0000	8	3302	
OCE	205	2	0023	0000	26	8812 5	26 9.6'N	77 43.1'W	6	80.67	0023	1222.	105.	0000	8	3322	
OCE	205	2	0024	0000	17	8812 5	26 11.3'N	77 42.2'W	6	80.67	0024	1043.	35.	0000	8	3332	
OCE	205	2	0025	0000	15	8812 6	26 11.0'N	77 42.3'W	6	80.67	0025	1034.	435.	0000	8	3308	
OCE	205	2	0028	0000	17	8812 6	26 10.6'N	77 42.6'W	6	80.67	0028	1143.	40.	0000	8	3352	
OCE	205	2	0029	0000	15	8812 6	26 10.6'N	77 42.7'W	6	80.67	0029	1149.	709.	0000	8	3002	
OCE	205	2	0029	0000	26	8812 6	26 10.6'N	77 42.7'W	6	80.67	0029	1149.	57.	0000	8	3702	
OCE	205	2	0031	0000	17	8812 6	26 11.0'N	77 39.0'W	6	80.67	0031	693.	24.	0000	8	3332	
OCE	205	2	0032	0000	15	8812 6	26 11.0'N	77 38.9'W	6	80.67	0032	683.	590.	0000	8	3332	
OCE	205	2	0033	0000	17	8812 6	26 13.3'N	77 41.5'W	6	80.67	0033	783.	224.	0000	8	3322	
OCE	205	2	0034	0000	15	8812 6	26 13.3'N	77 41.4'W	6	80.67	0034	769.	763.	0000	8	3302	
OCE	205	2	0034	0000	26	8812 6	26 13.3'N	77 41.4'W	6	80.67	0034	769.	81.	0000	8	3302	
OCE	205	2	0035	0000	17	8812 6	25 13.5'N	77 42.2'W	6	80.67	0035	991.	43.	0000	8	3302	
OCE	205	2	0036	0000	15	8812 7	26 13.6'N	77 42.4'W	6	80.67	0036	900.	762.	0000	8	3308	
OCE	205	2	0036	0000	26	8812 7	26 13.6'N	77 42.4'W	6	80.67	0036	900.	102.	0000	8	3302	
OCE	205	2	0038	0000	17	8812 7	26 13.1'N	77 39.8'W	6	80.67	0038	562.	20.	0000	8	3352	
OCE	205	2	0041	0000	17	8812 7	26 13.7'N	77 40.4'W	6	80.67	0041	599.	43.	0000	8	3332	
OCE	205	2	0042	0000	15	8812 7	26 13.9'N	77 40.6'W	6	80.67	0042	593.	558.	0000	8	3002	
OCE	205	2	0043	0000	17	8812 7	26 15.0'N	77 40.6'W	6	80.67	0043	479.	29.	0000	8	3350	
OCE	205	2	0045	0000	17	8812 8	26 15.6'N	77 42.2'W	6	80.67	0046	578.	7.	0000	8	0000	
OCE	205	2	0046	0000	15	8812 8	26 15.8'N	77 42.2'W	6	80.67	0046	570.	205.	0000	8	3007	
OCE	205	2	0048	0000	19	8812 8	26 14.2'N	77 41.0'W	6	80.67	0048	595.	24.	0000	8	3350	
OCE	205	2	0050	0000	19	8812 8	26 13.5'N	77 41.8'W	6	80.67	0050	817.	38.	0000	8	3332	
OCE	205	2	0051	0000	19	8812 8	26 13.5'N	77 42.1'W	6	80.67	0051	830.	30.	0000	8	3332	
OCE	205	2	0052	0000	19	8812 8	26 14.2'N	77 41.5'W	6	80.67	0052	668.	30.	0000	8	3332	

SHIP	CRUISE LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
OCE 205	2	0053	0000	19	8812 8	26 11.6'N	77 42.5'W	6	80.67	0053	1038.	24.	0000	8	3352	
OCE 205	2	0054	0000	19	8812 8	26 11.7'N	77 42.5'W	6	80.67	0054	1043.	21.	0000	8	0000	
OCE 205	2	0055	0000	19	8812 9	26 10.1'N	77 42.4'W	6	80.67	0055	1140.	30.	0000	8	3382	
OCE 205	2	0058	0000	19	8812 9	26 9.9'N	77 43.3'W	6	80.67	0058	1237.	23.	0000	8	3332	
OCE 205	2	0059	0000	19	8812 9	26 10.0'N	77 44.4'W	6	80.67	0059	1477.	32.	0000	8	3338	
OCE 205	2	0060	0000	19	8812 9	26 8.5'N	77 44.1'W	6	80.67	0060	1312.	27.	0000	8	3322	
OCE 205	2	0061	0000	19	8812 9	26 7.4'N	77 44.8'W	6	80.67	0061	0.	33.	0000	8	3332	
OCE 205	2	0062	0000	15	8812 9	26 7.4'N	77 44.8'W	6	80.67	0062	1586.	804.	0000	8	3702	
OCE 205	2	0062	0000	26	8812 9	26 7.4'N	77 44.8'W	6	80.67	0062	1586.	122.	0000	8	3302	
OCE 205	2	0063	0000	17	881210	26 7.7'N	77 43.9'W	6	80.67	0063	0.	210.	0000	8	3702	
OCE 205	2	0066	0000	17	881210	26 9.2'N	77 44.5'W	6	80.67	0066	1405.	8.	0000	8	0000	
OCE 205	2	0067	0000	19	881210	26 9.2'N	77 44.4'W	6	80.67	0067	1392.	32.	0000	8	3722	
OCE 205	2	0068	0000	19	881210	26 10.7'N	77 43.4'W	6	80.67	0068	1203.	30.	0000	8	3702	
OCE 205	2	0069	0000	19	881210	26 13.7'N	77 41.5'W	6	80.67	0069	735.	33.	0000	8	0000	
OCE 205	2	0070	0000	19	881210	26 13.3'N	77 42.2'W	6	80.67	0070	876.	32.	0000	8	0000	
OCE 205	2	0072	0000	19	881211	26 13.5'N	77 42.7'W	6	80.67	0072	908.	41.	0000	8	3332	
OCE 205	2	0075	0000	17	881211	26 14.0'N	77 40.0'W	6	80.67	0075	545.	145.	0000	8	3322	
OCE 205	2	0076	0000	19	881211	26 13.9'N	77 39.9'W	6	80.67	0076	529.	41.	0000	8	3350	
OCE 205	2	0077	0000	17	881211	26 14.6'N	77 39.5'W	6	80.67	0077	0.	31.	0000	8	3352	
OCE 205	2	0093	0000	17	881213	25 56.5'N	77 49.6'W	6	80.57	0093	1284.	225.	0000	8	3702	
OCE 205	2	0094	0000	16	881213	25 56.6'N	77 49.6'W	6	80.57	0094	1249.	614.	0000	8	3702	
OCE 205	2	0094	0000	26	881213	25 56.6'N	77 49.6'W	6	80.57	0094	1249.	135.	0000	8	3302	
OCE 205	2	0096	0000	17	881213	25 56.0'N	77 50.7'W	6	80.57	0096	1172.	125.	0000	8	3702	
OCE 205	2	0097	0000	16	881213	25 56.2'N	77 51.2'W	6	80.57	0097	1183.	263.	0000	8	3708	
OCE 205	2	0097	0000	26	881213	25 56.2'N	77 51.2'W	6	80.57	0097	1183.	26.	0000	8	3352	
OCE 205	2	0098	0000	17	881213	25 58.5'N	78 1.3'W	6	80.58	0098	879.	272.	0000	8	3701	
OCE 205	2	0099	0000	16	881213	25 59.0'N	78 1.2'W	6	80.58	0099	912.	373.	0000	8	3708	
OCE 205	2	0099	0000	26	881213	25 59.0'N	78 1.2'W	6	80.58	0099	912.	107.	0000	8	3332	
OCE 205	2	0100	0000	17	881213	26 3.7'N	78 1.7'W	6	80.68	0100	1057.	288.	0000	8	3302	
OCE 205	2	0101	0000	16	881213	26 3.8'N	78 1.3'W	6	80.68	0101	1076.	636.	0000	8	3308	
OCE 205	2	0101	0000	26	881213	26 3.8'N	78 1.3'W	6	80.68	0101	1076.	100.	0000	8	3332	
OCE 205	2	0103	0000	17	881214	26 4.2'N	78 3.4'W	6	80.68	0103	965.	284.	0000	8	3322	
OCE 205	2	0104	0000	16	881214	26 4.3'N	78 3.7'W	6	80.68	0104	976.	285.	0000	8	3308	
OCE 205	2	0104	0000	26	881214	26 4.3'N	78 3.7'W	6	80.68	0104	976.	103.	0000	8	3702	
OCE 205	2	0106	0000	17	881214	25 58.6'N	78 10.9'W	6	80.58	0106	654.	209.	0000	8	3322	
OCE 205	2	0107	0000	16	881214	25 58.7'N	78 10.7'W	6	80.58	0107	679.	223.	0000	8	3002	
OCE 205	2	0108	0000	17	881214	25 59.0'N	78 10.8'W	6	80.58	0108	743.	260.	0000	8	3302	
OCE 205	2	0109	0000	16	881214	25 59.1'N	78 10.9'W	6	80.58	0109	737.	821.	0000	8	3302	
OCE 205	2	0109	0000	26	881214	25 59.1'N	78 10.9'W	6	80.58	0109	737.	70.	0000	8	3332	
OCE 205	2	0110	0000	17	881214	25 56.9'N	78 14.7'W	6	80.58	0110	537.	32.	0000	8	3752	
OCE 205	2	0111	0000	17	881214	25 55.4'N	78 7.4'W	6	80.58	0111	516.	46.	0000	8	3352	
OCE 205	2	0112	0000	16	881214	25 55.3'N	78 7.6'W	6	80.58	0112	513.	404.	0000	8	3007	
OCE 205	2	0112	0000	26	881214	25 55.3'N	78 7.6'W	6	80.58	0112	513.	25.	0000	8	3352	
OCE 205	2	0114	0000	17	881215	25 54.4'N	78 6.6'W	6	80.58	0114	463.	7.	0000	8	0000	
OCE 205	2	0116	0000	17	881215	26 2.0'N	77 52.5'W	6	80.67	0116	1534.	229.	0000	8	3322	

********** STATION DATA RETRIEVAL **********
********** DATE: 7-DEC-92 10:02 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
OCE	205	2	0117	0000	16	881215	26 2.0'N	77 52.7'W	6	80.67	0117	1535.	703.	0000	8	3708	
OCE	205	2	0117	0000	26	881215	26 2.0'N	77 52.7'W	6	80.67	0117	1535.	60.	0000	8	3332	
OCE	205	2	0118	0000	17	881215	26 7.4'N	77 44.1'W	6	80.67	0118	1451.	52.	0000	8	3332	
OCE	205	2	0119	0000	16	881215	26 7.3'N	77 44.0'W	6	80.67	0119	1464.	227.	0000	8	3708	
OCE	205	2	0119	0000	26	881215	26 7.3'N	77 44.0'W	6	80.67	0119	1464.	36.	0000	8	3332	
OCE	205	2	0120	0000	16	881215	26 7.4'N	77 44.1'W	6	80.67	0120	1466.	643.	0000	8	3308	
OCE	205	2	0120	0000	26	881215	26 7.4'N	77 44.1'W	6	80.67	0120	1466.	72.	0000	8	3332	
OCE	205	2	0121	0000	17	881216	26 9.3'N	77 43.5'W	6	80.67	0121	1253.	51.	0000	8	3322	
OCE	205	2	0122	0000	16	881216	26 9.4'N	77 43.4'W	6	80.67	0122	1263.	55.	0000	8	3001	
OCE	205	2	0122	0000	26	881216	26 9.4'N	77 43.4'W	6	80.67	0122	1263.	3.	0000	8	0000	
OCE	205	2	0140	0000	17	881216	26 12.0'N	77 42.0'W	6	80.67	0140	964.	45.	0000	8	3322	
OCE	205	2	0141	0000	16	881216	26 12.0'N	77 41.0'W	6	80.67	0141	958.	287.	0000	8	3308	
OCE	205	2	0141	0000	26	881216	26 12.0'N	77 41.0'W	6	80.67	0141	958.	44.	0000	8	3302	
OCE	205	2	0142	0000	16	881216	26 11.9'N	77 41.9'W	6	80.67	0142	955.	154.	0000	8	3302	
OCE	205	2	0142	0000	26	881216	26 11.9'N	77 41.9'W	6	80.67	0142	955.	91.	0000	8	3322	
OCE	205	2	0143	0000	17	881216	26 13.8'N	77 42.3'W	6	80.67	0143	805.	63.	0000	8	3302	
OCE	205	2	0144	0000	16	881216	26 13.8'N	77 42.3'W	6	80.67	0144	833.	551.	0000	8	3308	
OCE	205	2	0144	0000	26	881216	26 13.8'N	77 42.3'W	6	80.67	0144	833.	47.	0000	8	3328	
OCE	205	2	0145	0000	17	881217	26 13.0'N	77 39.6'W	6	80.67	0145	539.	18.	0000	8	3320	
OCE	205	2	0146	0000	16	881217	26 13.0'N	77 39.6'W	6	80.67	0146	542.	249.	0000	8	3027	
OCE	205	2	0146	0000	26	881217	26 13.0'N	77 39.6'W	6	80.67	0146	542.	8.	0000	8	3350	
OCE	205	2	0148	0000	17	881217	26 15.6'N	77 40.3'W	6	80.67	0148	434.	160.	0000	8	3350	
OCE	205	2	0149	0000	16	881217	26 15.6'N	77 40.3'W	6	80.67	0149	0.	249.	0000	8	3002	
OCE	205	2	0149	0000	26	881217	26 15.6'N	77 40.3'W	6	80.67	0149	0.	0.	0000	8	0000	
OCE	205	2	0150	0000	17	881217	26 15.6'N	77 40.3'W	6	80.67	0150	0.	94.	0000	8	3352	
OCE	205	2	0151	0000	17	881217	26 13.8'N	77 40.3'W	6	80.67	0151	587.	40.	0000	8	3352	
OCE	205	2	0152	0000	16	881217	26 13.6'N	77 40.2'W	6	80.67	0152	577.	587.	0000	8	3002	
OCE	205	2	0152	0000	26	881217	26 13.6'N	77 40.2'W	6	80.67	0152	577.	20.	0000	8	3352	
OCE	205	2	0153	0000	17	881217	26 11.7'N	77 42.6'W	6	80.67	0153	1039.	43.	0000	8	3322	
OCE	205	2	0154	0000	16	881217	26 11.6'N	77 42.5'W	6	80.67	0154	1044.	495.	0000	8	3302	
OCE	205	2	0154	0000	26	881217	26 11.6'N	77 42.5'W	6	80.67	0154	1044.	0.	0000	8	0000	

THERE WERE 120 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 2 Core No 266C
Total Length 15 cm. Lat. 26°10.50'N Long. 77°39.05'W Depth 708 m corr.
Core condition NOT SPLIT Date Described — by —
Physiographic location LITTLE BAHAMA BANK

Lithologic Log

Detailed Description

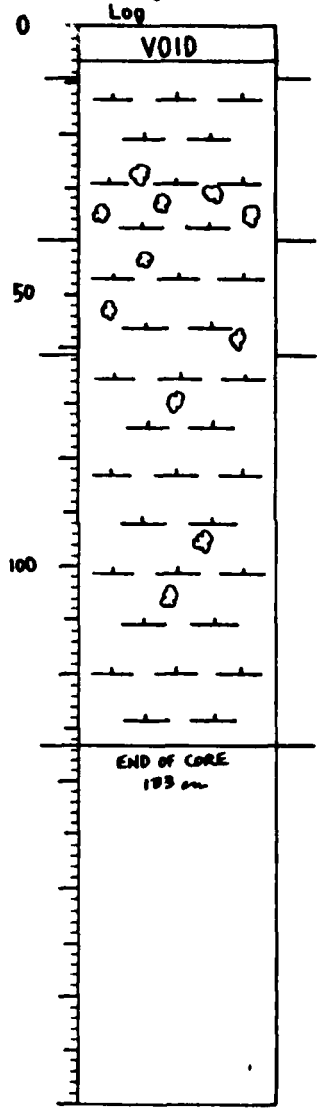
NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 4 Core No 4 JPC
Total Length 133 cm. Lat. 26°10.33N Long. 77°30.05'W Depth 714 m corr.
Core condition EXCELLENT Date Described 25 SEPT 77 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-6
Shrinkage Void

6-9
CALC OOZE
10 YR 8/2 white
Silt to fine sand
S, concave upward

9-40
CALC OOZE
10 YR 7/1 light gray
Commonly to extensively bioturbated below 27 cm.
Very silty lutite with some fine sand
G, mottled

40-61
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/1 light gray mottles
Very silty lutite
G

61-133
CALC OOZE
10 YR N8/ white
Few 10 YR 8/2 mottles scattered throughout
Chalky lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 4 JPC

Expedition 205 Station No. 4

Leg No. 2 Total Core Length 133 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE					5	20	60	15		20	TR		
20	CALC OOZE					10	8	41	20		20	1		
50	CALC OOZE					8	15	51	10	1	15			
100	CALC OOZE					20	10	46	4	TR	20			
132	CALC OOZE					15	10	30	15	TR	30			

VISUAL CORE DESCRIPTION

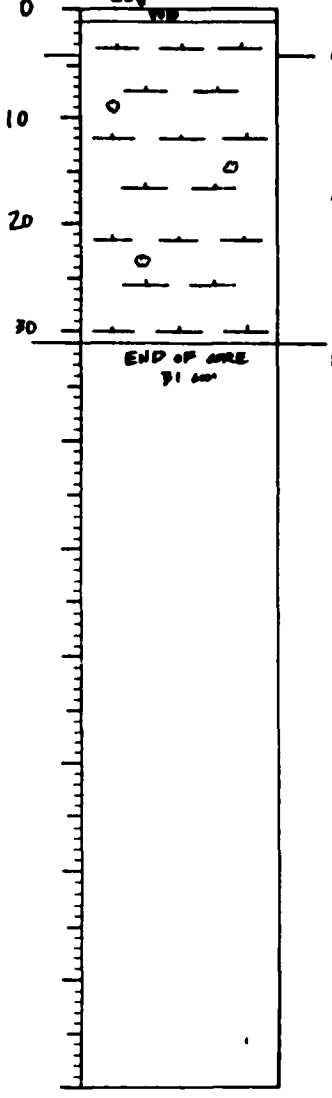
Ship OCE Cruise 205 Leg 2 Sta. 4 Core No 4 PC

Total Length 31 cm. Lat. 26°10.33'N Long 77°34.05'W Depth 314 m corr.

Core condition EXCELLENT Date Described 2 DEC, 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-4

CALC OOZE
10 YR 7.5/2.5 light brownish gray
Silty lutite with common forams
0-1 cm. shrinkage void
S.

4-31

CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/2 light gray mottles
Silty lutite with common to abundant forams and scattered pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 4 PG

Expedition 205 Station No. 4

Leg No. 2 Total Core Length 31 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		1			7	20	34	10		25	3		
30	CALC OOZE		1			15	20	40	10		20	4		

VISUAL CORE DESCRIPTION

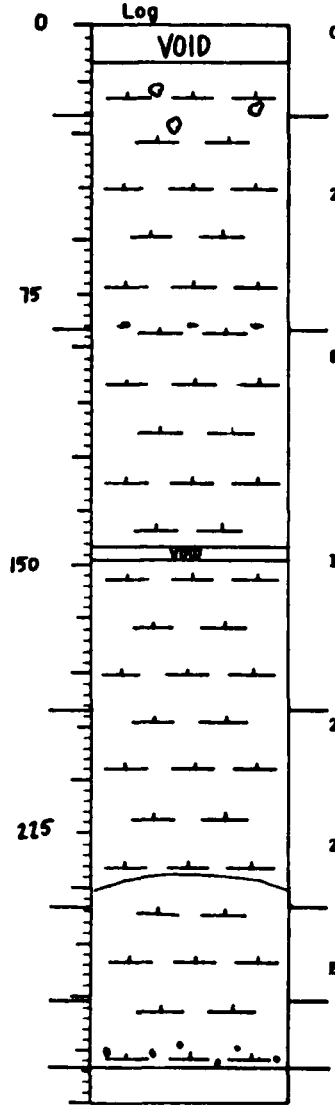
Ship OCE Cruise 205 Leg 2 Sta. 6 Core No 6 JPC

Total Length 290 cm. Lat. 24°10.16' N Long. 77°30.4' W Depth 698 m corr.

Core condition EXCELLENT Date Described 27 SEPT 1990 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 7/2 light gray
Scattered mottling 10 YR 8/2 white below 15 cm.
Silty lutite with abundant forams and pteropods
0-10 cm. shrinkage void
G, mottled.

23-85
CALC OOZE
Few 10 YR 7/2 mottles and burrows above 35 cm.
Silty, chalky lutite with abundant forams
Few scattered coral fragments noted near base of unit
G.

85-190
CALC OOZE
10 YR 7/2 light gray
Scattered but faint color changes throughout
Very silty lutite with increasing concentration of pteropods downcore
Shrinkage void 145-148 cm.; scattered black regions noted below 150 cm.
G.

190-245
CALC OOZE
10 YR 8/2 becoming whiter down section
Very silty lutite with abundant sand size grains (pteropods and forams)
10 YR 7/2 light gray lens (concave up) at 241 cm.
S.

245-271
CALC OOZE
10 YR 7/2 light gray
Very silty lutite
S.

271-290
CALC OOZE
10 YR 8/2 white
Very silty lutite with lithified chunks
Contains large lithified bits at bottom of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 6 JPC

Expedition 205 Station No. 6

Leg No. 2 Total Core Length 290 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
11	CALC OOZE	TR				5	10	45	10		20	TR		
50	CALC OOZE					10	30	40	5	TR	15			
130	CALC OOZE	TR				10	15	52	3		20			
220	CALC OOZE	TR				8	40	38	4		10			
260	CALC OOZE					10	30	40	5		15			
285	CALC OOZE					6	20	70	1		3			

VISUAL CORE DESCRIPTION

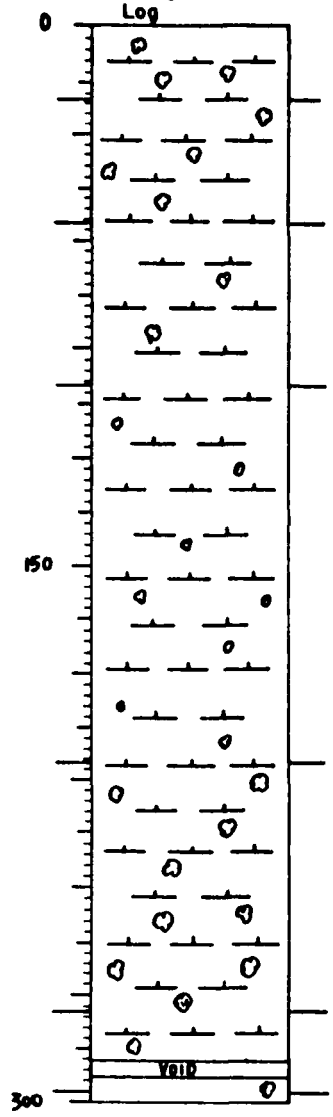
Ship OCE Cruise 205 Leg 2 Sta. 7 Core No 7 JPC

Total Length 595 cm. Lat. 26°08.19'N Long 77°49.12'W Depth 1320 m corr.

Core condition EXCELLENT Date Described 15 JAN 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-20
CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Common 10 YR 8/2 white mottles
Silty lutite with abundant forams and common pteropod fragments
0-7 cm slightly disturbed
S.

20-55
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/1 light gray mottles
Silty lutite with abundant forams
10 YR 8/3 very pale brown bands at 24, 28 cm.
S.

55-100
CALC OOZE
10 YR 8/3 very pale brown
Few 10 YR 7/1 light gray mottles
Silty lutite with common to abundant forams and some vizible pteropods
Faint color changes throughout
S.

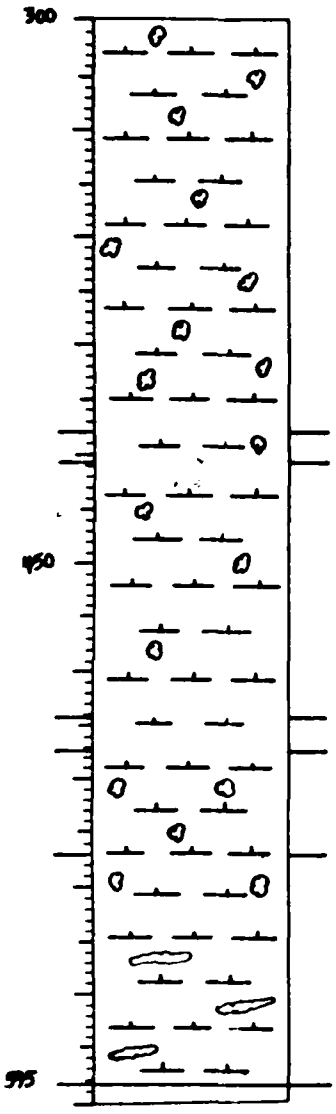
100-205
CALC OOZE
10 YR 8/1 white and 10 YR 8/3 very pale brown
Faint mottling with intercalation scattered throughout
Silty lutite with abundant forams
Very faint 5 Y 8/4 pale yellow bands noted at 146, 156-159, 183, 204-205 cm.
G.

205-275
CALC OOZE
10 YR 8/1 white
Common to extensive 2.5 Y 7/2 light gray mottles
Silty lutite with common forams
Few 7.5 YR 8/2 pinkish white mottles with abundant forams below 270 cm.
S, mottled.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 7 Core No. 7JPC

Lithologic Log



Detailed Description

275-297
CALC OOZE
7.5 YR 8/2 pinkish white
Few 10 YR 8/1 white mottles
Silty lutite with abundant forams
Void 289-293 cm.
G.

297-414
CALC OOZE
10 YR 8/1 white with faint color changes
2.5 Y 8/2 white mottles and features throughout
Silty lutite with common to abundant forams
Scattered 10 YR 7/1 light gray mottles/burrows
below 390 cm.
G, mottled.

414-422
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 8/1 white mottles
Silty lutite
Few black flecks noted
S, mottled.

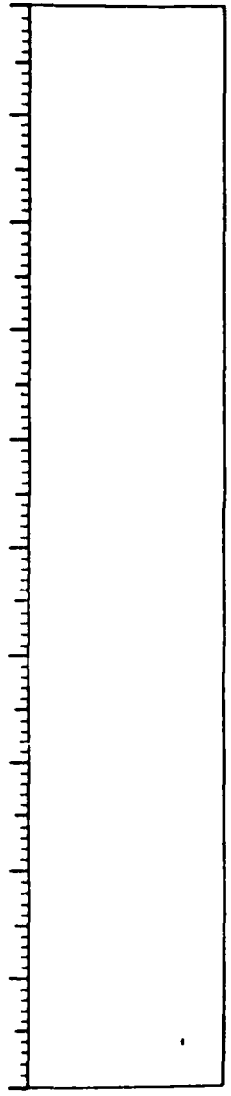
422-493
CALC OOZE
10 YR 8/2 and 10 YR 8/1 white
Scattered 10 YR 6/2 light brownish gray mottles
Silty lutite with common forams
Two regions of higher foram concentration between
445-453 cm.
G.

493-502
CALC OOZE
10 YR 8/2 white
Dry silty lutite
Semi-lithified unit
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 7 Core No 7JPC

Lithologic Log



Detailed Description

502-531
CALC OOZE
10 YR 8/1 white grading to 10 YR 6/1 gray
Common mottling with intercalation
Silty white with common forams grading to
scattered
G.

531-595
CALC OOZE
White and 10 YR 8/1 white
Scattered 10 YR 6/1 gray mottles above 550 cm.
Moist silty lutite
Scattered 10 YR 7/1 light gray horizontally
oriented burrows below 550 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 7 JPC

Expedition 205 Station No. 7

Leg No. 2 Total Core Length 595 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE	1	TR			8	20	40	4	TR	20	7		
40	CALC OOZE	TR	TR			7	20	37	6		25	5		
75	CALC OOZE	1	TR			10	25	34	10	TR	20	TR		
165	CALC OOZE	TR	TR			15	20	37	8		20			
230	CALC OOZE		TR			10	25	33	15		15	2		
285	CALC OOZE		1			18	20	30	10		20	1		TR
360	CALC OOZE		TR			12	25	45	10		8	TR		
418	CALC OOZE	4	1			20	10	34	6		25			
470	CALC OOZE		TR			10	10	35	4		40	1		
500	CALC OOZE		TR			11	20	45	4	TR	20			
590	CALC OOZE	TR				7	10	53	5		25			

VISUAL CORE DESCRIPTION

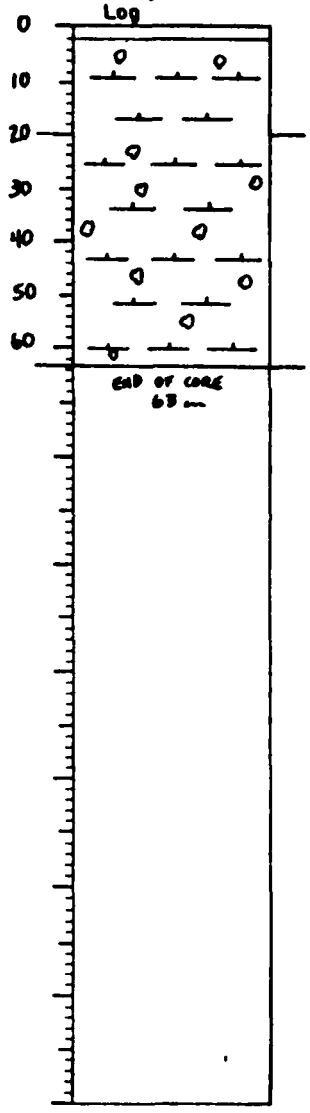
Ship OCE Cruise 205 Leg 2 Sta. 7 Core No 7 PC

Total Length 63 cm. Lat. 26°08.19'N Long 77°44.12'W Depth 1320 m corr.

Core condition EXCELLENT Date Described 17 OCT 1990 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-20

CALC OOZE
10 YR 7/3 very pale brown
Few 10 YR 7/1 light gray mottles above 10 cm.
Silty lutite with common forams
0-2 shrinkage void; few micronodules?
G.

20-63

CALC OOZE
10 YR 8/1 white
Common 10 YR 7/2 light gray mottles
Silty lutite with common forams and some visible pteropods
10 YR 8/3 very pale brown bands at 25, 28 and 31 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 7 PG

Expedition 205 Station No. 7

Leg No. 2 Total Core Length 63 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		1			6	8	67	5		10	3		
50	CALC OOZE					8	7	66	3		15	1		

VISUAL CORE DESCRIPTION

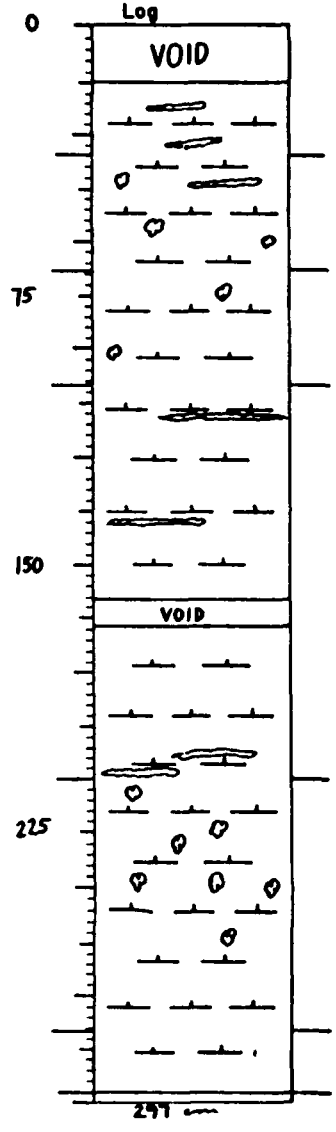
Ship OCE Cruise 205 Leg 2 Sta. 9 Core No 9 PC

Total Length 297 cm. Lat. 26°06.96' N Long 77°45.81' W Depth 1529 m corr.

Core condition EXCELLENT Date Described 2 OCT. 1979 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-36
CALC OOZE
10 YR 7/3 very pale brown grading to 10 YR 8/2 white
Scattered 10 YR 6/2 light brownish gray burrows showing horizontal orientation
Chalky lutite with abundant forams
0-9 cm. missing; 9-15 cm. shrinkage void; foram pteropod sand layer at unit base
S.

36-68
CALC OOZE
10 YR 7/3 very pale brown
Common 10 YR 8/2 mottles; few 10 YR 6/2 horizontally oriented burrows above 50 cm.
Silty lutite with abundant forams and pteropods
G.

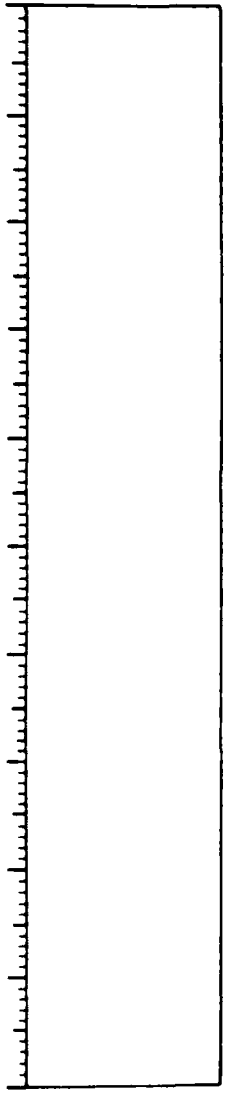
68-100
CALC OOZE
10 YR 8/2 white becoming even more white below 80 cm.
Few faint 10 YR 7/2 light gray mottles
Chalky lutite with abundant forams
Few moist horizons containing greater concentrations of pteropods
G.

100-210
CALC OOZE
10 YR 8/2 white
Few horizontal burrows; 10 YR 5/1 and 10 YR 4/1 gray most notably at 107, 138, 204 and 208 cm.
Chalky lutite with abundant forams
Shrinkage void 160-167 cm.; common horizontally oriented features where texture changes slightly commonly spaced 3-5 cm. apart.
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 9 Core No 9JPC

Lithologic Log



Detailed Description

210-280
CALC OOZE
10 YR 8/1 white
Common to extensive 10 YR 6/2 light brownish gray mottles/burrows above 250 cm.
Moist chalky lutite with abundant forams and regions of high pteropod concentration
Mottling burrowing shows horizontal orientation; abundant 10 YR 3/1 very dark gray flecks noted throughout
G.

280-297
CALC OOZE
10 YR 7/2.5 very pale brown
Faint 10 YR 8/1 white concave upward features noted
Chalky lutite with abundant forams and pockets of pteropod fragments
Scattered dark gray and black flecks

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 9 JPC

Expedition 205 Station No. 9

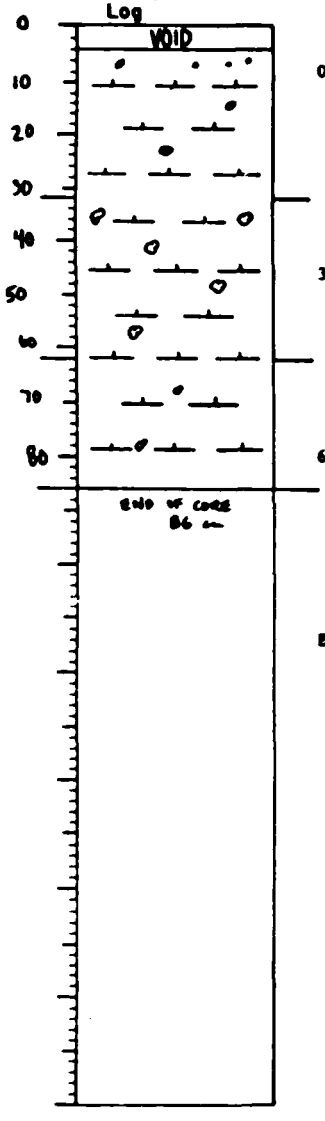
Leg No. 2 Total Core Length 297 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
16	CALC OOZE	TR				10	20	54	4		10	2		
50	CALC OOZE					15	20	45	10	TR	10	TR		
85	CALC OOZE					8	25	46	5	TR	15	1		
150	CALC OOZE					10	20	60	4		6	TR		
240	CALC OOZE					12	25	45	8		8	2		
295	CALC OOZE					15	15	54	10	TR	6	TR		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 9 Core No 9 PG
Total Length 86 cm. Lat. 26°06.95' N Long. 77°45.37' W Depth 1529 m corr.
Core condition EXCELLENT Date Described 2 OCT. 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-32
CALC OOZE
10 YR 7/3 very pale brown
Faint mottling 10 YR 8/2 white and 10 YR 7/1 light gray
Silty moist lutite with abundant forams and visible pteropods
Few black flecks noted near core top
G.

32-62
CALC OOZE
10 YR 8/2 white grading to 10 YR 8/1 white
Common mottling 10 YR 7/3 very pale brown above 50 cm.; 10 YR 6/2 light brownish gray below 50 cm.
Chalky lutite with abundant forams
Visible pteropods
S.

62-86
CALC OOZE
10 YR 7/3 very pale brown becoming lighter near base
Faint 10 YR 7/1 light gray mottling
Silty lutite with abundant forams
Very similar to top; repenetration? of pilot

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

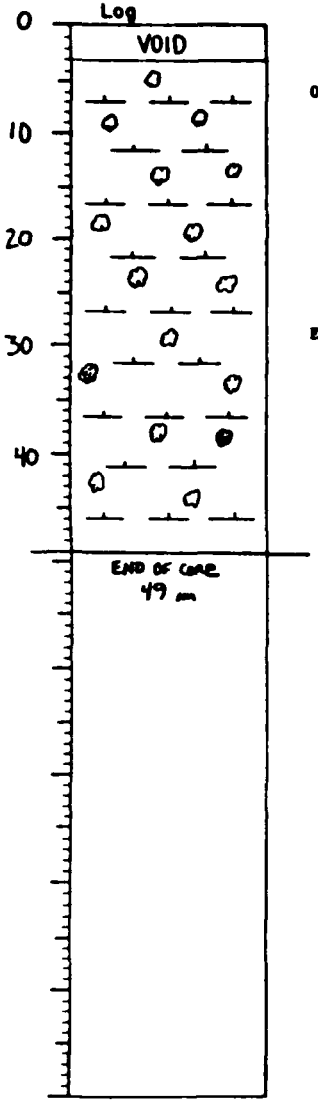
Ship: OCE Core No. 9 PG
Expedition 205 Station No. 9
Leg No. 2 Total Core Length 86 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		1			11	20	50	8		7	3		
50	CALC OOZE		TR			12	25	45	5		10	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 12 Core No 12 GGC
Total Length 49 cm. Lat. 26°18.17'N Long. 71°42.30'W Depth 1151 m corr.
Core condition EXCELLENT Date Described 7 AUG 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-49

CALC OOZE
10 YR 8/2 white
Extensive mottling and mixing with 10 YR 7/1 gray and 10 YR 6.5/3 pale brown
Silty lutite with common forams
0-3 cm. shrinkage void; 3-7 cm. is 10 YR 7/2 light gray; few mottles/burrows with pteropod concentrations; core becomes very silty below 47 cm. and is semi-lithified.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

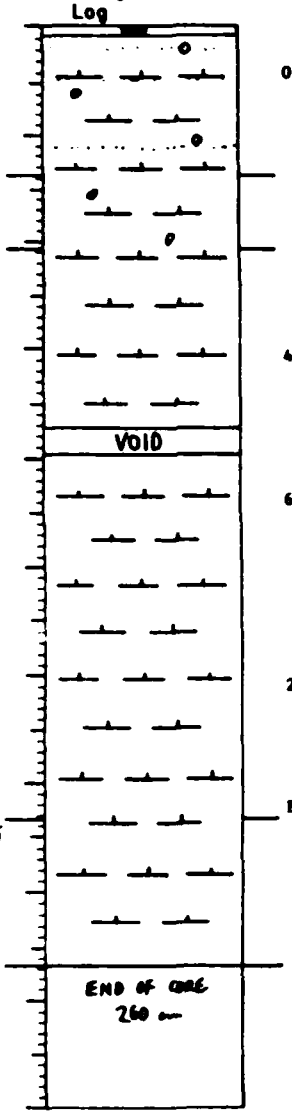
Ship: OCE Core No. 12 GGC
Expedition 205 Station No. 12
Leg No. 2 Total Core Length 49 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		3			10	15	46	8		15	3		
47	CALC OOZE		1			7	8	50	10		20	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 15 Core No 15PC
Total Length 260 cm. Lat. 24°19.87' N Long. 77°18.73' W Depth 934 m corr.
Core condition EXCELLENT Date Described DEC 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-41
CALC OOZE
10 YR 8/2 white with 10 YR 6.5/3 pale brown bands at 5-6 cm. and 8-9 cm. and 10 YR 7/4 very pale brown bands at 9-10 and 12-13 cm.
Scattered faint mottling primarily 10 YR 7/1 light gray
Sandy lutite with abundant forams and pteropods
0-2 void due to shrinkage; good core top; unit contains some concentrations of foram and pteropod sands; sandy layers noted at 5, 6, 14, and 34 cm.; good core top correlation with PC 6.

41-62
CALC OOZE
10 YR 7.5/2 light gray
Few faint 10 YR 6/1 gray mottles
Silty lutite with abundant forams
G.

62-221
CALC OOZE
10 YR 8/1 white
Faint color changes noted throughout unit
Chalky lutite with abundant forams and pteropods
Scattered clumps of pteropod fragments throughout; shrinkage void 112-119 cm.
S.

221-260
CALC OOZE
10 YR 8/1 white
Dry silty lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 15 PC
Expedition 205 Station No. 15
Leg No. 2 Total Core Length 260 cm

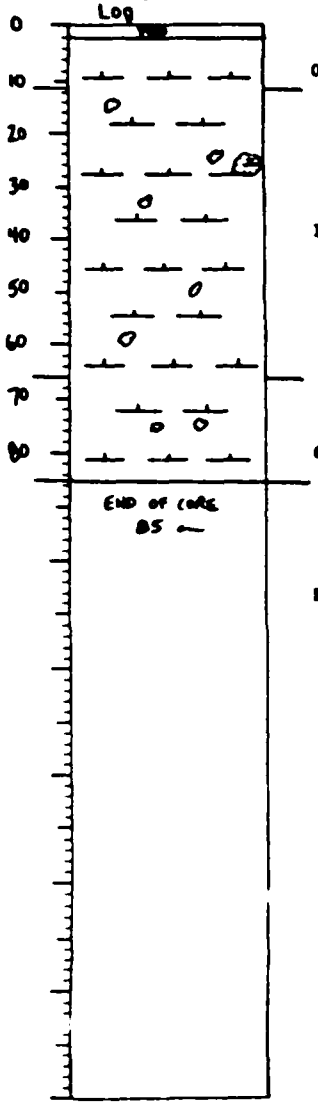
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micromodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		TR			7	35	35	5		15	3		
55	CALC OOZE		TR			10	20	50	3	TR	15	2		
150	CALC OOZE					13	25	45	5	TR	10	2		
259	CALC OOZE					10	20	63	TR		7			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 15 Core No 15 PG
Total Length 85 cm. Lat. 25°19.87' N Long 77°38.73' W Depth 934 m corr.
Core condition EXCELLENT Date Described 9 OCT 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-11
CALC OOZE
10 YR 7/2 light gray
Silty lutite with abundant forams
Unit becomes slightly darker below 7 cm.; shrinkage void 0-2 cm.
S.

11-66
CALC OOZE
10 YR 8/1 white
Scattered very faint white and 10 YR 7/1 light gray mottling
Very silty lutite with abundant forams
Visible pteropods throughout: large pteropod/foram sand burrow 25-27 cm.; 10 YR 7/4 very pale brown bands at 11-12 and 15-16 cm.
G.

66-85
CALC OOZE
10 YR 8/3 very pale brown
Few faint 10 YR 7/1 light gray mottles
Very silty lutite with abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

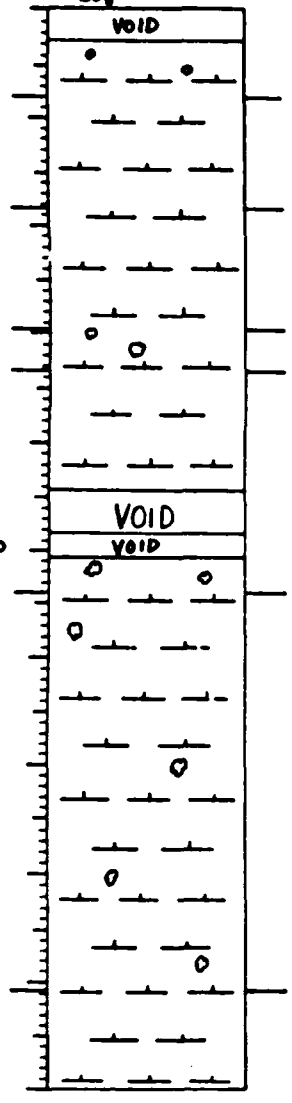
Ship: OCE Core No. 15 PG
Expedition 205 Station No. 15
Leg No. 2 Total Core Length 85 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		TR			10	30	39	8		10	3		
40	CALC OOZE					17	25	45	6	TR	5	2		
84	CALC OOZE		1			20	30	32	5	TR	10	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 17 Core No 17 PC
Total Length 447 cm. Lat. 26°19.92' N Long. 77°49.81' W Depth 935 m corr.
Core condition EXCELLENT Date Described 11 OCT 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-24
CALC OOZE
10 YR 7/2 light gray with bands of 10 YR 8/3 very pale brown and 10 YR 8/1 white
Faint mottling with intercalation
Silty lutite with abundant forams and pteropods
0-8 cm. shrinkage void
S.

24-55
CALC OOZE
10 YR 8/1 white grading to 10 YR 8/2 white from 35-40 and 51-55 cm.
Chalky silty lutite with abundant forams
Few 10 YR 5/1 gray regions from 39-44 cm.
G.

55-89
CALC OOZE
10 YR 8/1 white
Very faint color changes noted throughout
Silty lutite with abundant forams and few pteropods
Scattered micronodules
S, I S*.

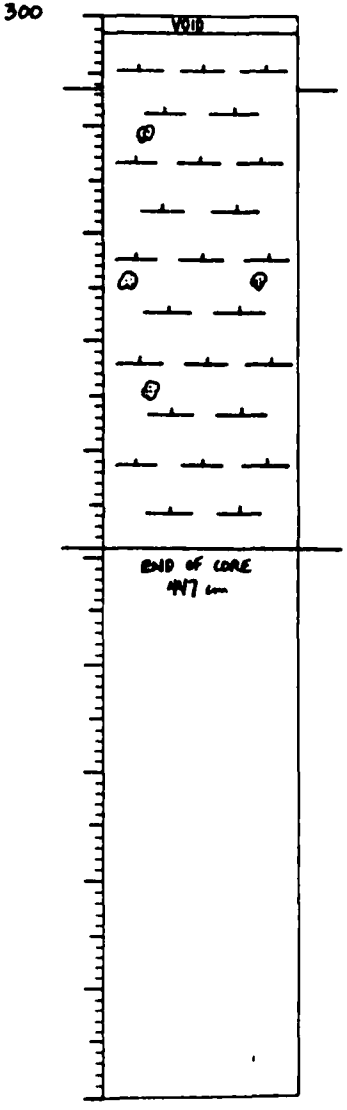
89-100
CALC OOZE
White
Scattered 10 YR 8/1 white mottles
Semi-lithified silty lutite
Few black flecks noted
S.

100-162
CALC OOZE
10 YR 8/1 white
Few 10 YR 7/1 light gray mottles near unit base
Chalky lutite with abundant forams
Lithified horizons noted at 113, 120 cm.; common black flecks below 120 cm.; 133-145 cm. void; shrinkage void 145-152 cm.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta 17 Core No 17 PC

Lithologic Log



Detailed Description

162-272
CALC OOZE
10 YR 8/1 white grading to 10 YR 7/2 light gray near unit base
Widely scattered 10 YR 7/2 light gray mottles
Silty lutite with common forams
Several horizontally oriented 10 YR 6/1 gray burrows; common 10 YR 5/1 gray flecks throughout; one 10 YR 4/1 dark gray mottle at 244 cm.
G.

272-319
CALC OOZE
10 YR 7/2 light gray
Silty lutite with common forams
Unit becomes dryer and more lithified down core; shrinkage void 300-304 cm.
S.

319-447
CALC OOZE
10 YR 7/2 light gray
Widely scattered mottles/burrows containing greater foram concentrations
Moist silty lutite with common forams
Shell fragment noted at 340 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 17 PC

Expedition 205 Station No. 17

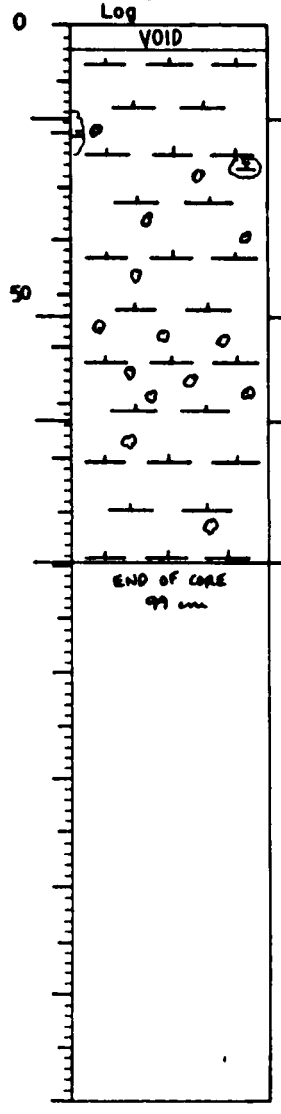
Leg No. 2 Total Core Length 447 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE		TR			7	20	58	7		8	TR		
40	CALC OOZE					10	25	45	10	TR	8	2		
75	CALC OOZE					15	15	55	5	TR	10	TR		
93	NANNO OOZE					5	8	85			2	TR		
125	CALC OOZE		TR			7	15	64	3	1	10	TR		
220	CALC OOZE	TR				8	10	69	2	1	10	TR		
295	CALC OOZE		1			6	15	56	2		20	TR		
380	CALC OOZE		TR			7	20	50	3		20	TR		
446	CALC OOZE		1			8	10	61	5		15	TR		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 17 Core No 17 PC
Total Length 99 cm. Lat. 26°19.92'N Long. 77°48.81' W Depth 935 m corr.
Core condition EXCELLENT Date Described 10 OCT 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 7/2 light gray but 10 YR 6/4 light yellowish brown from 10-11 cm. and 10 YR 7/4 very pale brown from 14-17 cm.
Silty lutite with abundant forams and pteropods
0-4 shrinkage void; good core top

17-54
CALC OOZE
10 YR 8/1 white
Common but faint 10 YR 7/1 light gray mottles
Silty lutite with abundant forams and pteropods
Pockets of wet pteropod/foram sand at 16-19 cm. and at 25-27 cm.
S, mottled.

54-73
CALC OOZE
10 YR 8/2 very pale brown
Abundant but faint 10 YR 8/1 white mottles throughout
Silty lutite with abundant forams and pteropods

73-99
CALC OOZE
10 YR 8/3 very pale brown
Few faint 10 YR 7/1 light gray mottles
Moist silty lutite with abundant forams and pteropods
76-77 cm resembles overlying unit

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 17 PC

Expedition 205 Station No. 17

Leg No. 2 Total Core Length 97 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		TR			8	20	48	4		15	5		
35	CALC OOZE					10	15	44	4		20	7		
65	CALC OOZE					10	25	40	6		15	4		
97	CALC OOZE		1			10	15	53	8	TR	8	5		

VISUAL CORE DESCRIPTION

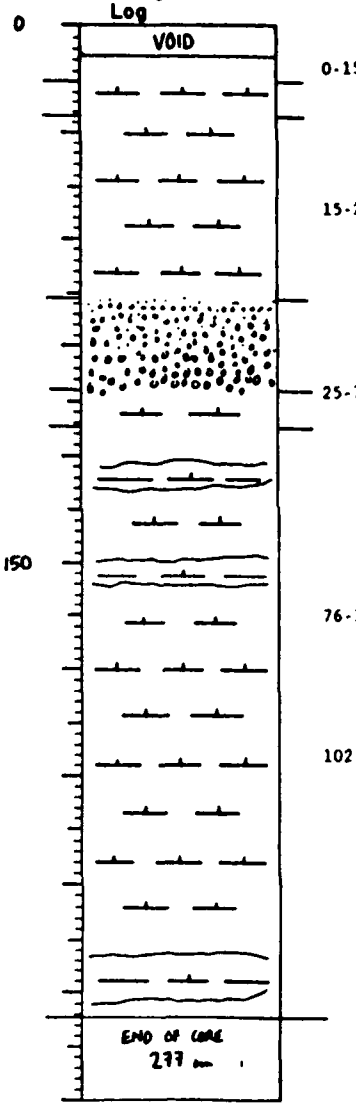
Ship OCE Cruise 205 Leg 2 Sta. 19 Core No 19 PC

Total Length 277 cm. Lat. 26° 06.42' N Long. 77° 15.04' W Depth 1583 m corr.

Core condition EXCELLENT Date Described 16 OCT 1990 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



0-15
CALC OOZE
10 YR 8/1 white
Moist silty lutite with abundant forams
0-8 shrinkage void
S, irregular

15-25
CALC OOZE
10 YR 7/2 light gray grading to 10 YR 8/2 white
Common 10 YR 7/1 light gray mottles and intercalations
Silty lutite with common forams
Scattered micronodules
S.

25-76
CALC OOZE
10 YR 8/1 white
Few large 10 YR 7/2 light gray and 10 YR 7/3 very pale brown mottles
Chalky lutite with common forams
Upper contact is semi lithified; several 10 YR 6/2 light brownish gray horizontally oriented burrows below 48 cm.
S.

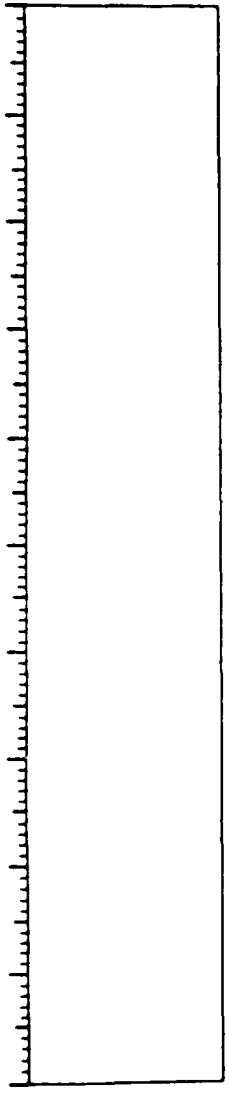
76-102
CALC HASH
10 YR 8/2 white
Calcareous sand with pebbles and shell frags.
Unit grades to coarser material down section
S.

102-112
CALC OOZE
10 YR 8/1 white
Few 10 YR 6/2 light brownish gray mottles
Silty lutite with large lithified chunks
S, deformed.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 19 Core No. 19 PC

Lithologic Log



Detailed Description

112-279
CALC OOZE
10 YR 8/1 white
Very homogeneous material
Moist silty lutite
Shrinkage void 123-127 cm.; 5 Y 5/2 olive gray regions from 150-156 cm and 260-273 cm. clay clasts?

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 19 PC

Expedition 205 Station No. 19

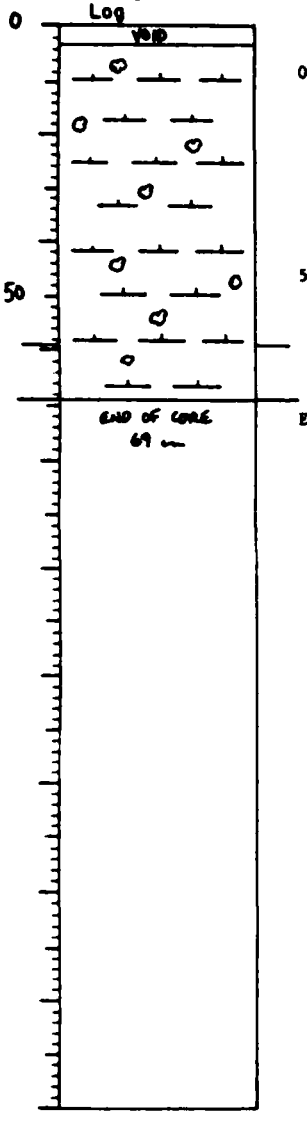
Leg No. 2 Total Core Length 277 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
9	CALC OOZE	TR	TR			3	30	46	TR		20	1		
26	CALC OOZE		TR			5	20	58	3		10	4		
60	CALC OOZE					2	8	80	TR		10			
90	CALC HASH					sand and pebble size calc grains								
107	CALC OOZE	TR	TR			8	15	67			10			
190	CALC OOZE		TR			5	20	60			15			
265	HIGHLY CALC CLAY	7	2			61	2	10			18			

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 19 Core No 19 PG
Total Length 69 cm. Lat. 26°06.42' N Long. 77°46.04' W Depth 1685 m corr.
Core condition EXCELLENT Date Described 18 OCT, 1990 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-59
CALC OOZE
10 YR 8/2 white with faint color changes throughout
Common 10 YR 7/1 light gray mottles/burrows
Silty lutite with abundant forams and some visible pteropods
Two 10 YR 6/3 pale brown bands at 16 and 19 cm.
S, irregular.

59-69
CALC OOZE
10 YR 7/2 light gray
Faint 10 YR 6/3 pale brown mottling
Silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 19 PG
Expedition 205 Station No. 19
Leg No. 2 Total Core Length 69 cm

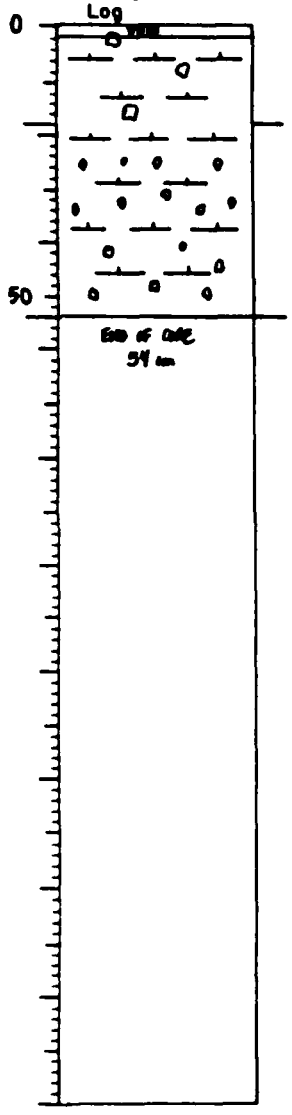
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		2			8	10	51	5		20	4		
50	CALC OOZE		1			10	12	52	3	TR	20	2		
68	CALC OOZE	TR	TR			10	15	49	2		20	4		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 20 Core No 20 GGC
Total Length 54 cm. Lat. 26°07.04' N Long. 77°44.4' W Depth 1465 m corr.
Core condition EXCELLENT Date Described 4 JUN 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10
CALC OOZE
10 YR 7/2 light gray grading to 10 YR 6/3 pale brown
Few 10 YR 6/1 light gray mottles and scattered intercalations
Silty lutite with common forams
0-2 cm. void
S. mottled.

10-54
CALC OOZE
10 YR 7.5/1 light gray
Common to abundant 10 YR 7/1 light gray and 10 YR 6/3 pale brown mottles
Slightly silty lutite with common forams
Horizontally oriented 10 YR 7/4 very pale brown regions at 19 and 25-26 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

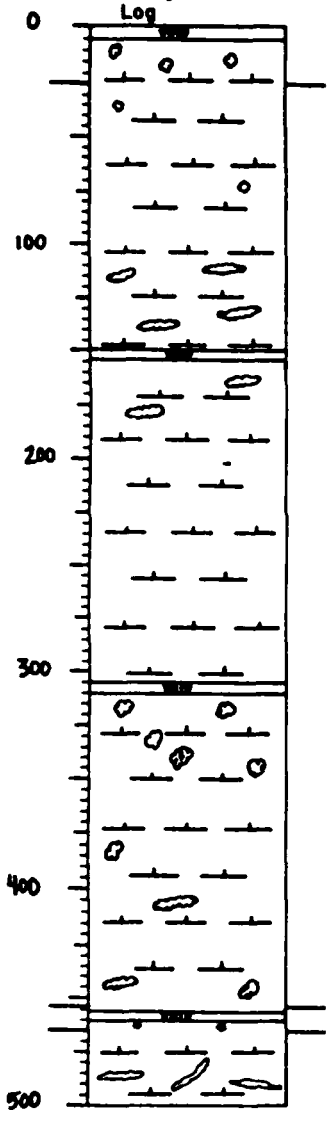
Ship: OCE Core No. 20 GGC
Expedition 205 Station No. 20
Leg No. 2 Total Core Length 54 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		1			17	10	50	2		20	4		
45	CALC OOZE		1			14	20	30	2		30	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 21 Core No 21 PC
Total Length 607 cm. Lat. 26°07.10' N Long. 77°44.20' W Depth 1468 m corr.
Core condition EXCELLENT Date Described 29 JAN 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-25
CALC OOZE
10 YR 6/3 pale brown except 10 YR 7/2 light gray from 9-21 cm.
Common 10 YR 6/2 light brownish gray mottling
Silty lutite with common to abundant forams
0-5 cm. shrinkage void
S, concave upward

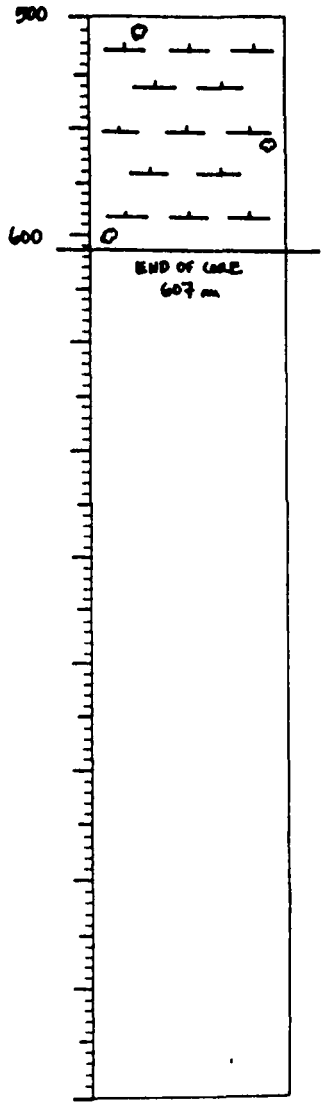
25-453
CALC OOZE
Predominantly 10 YR 8/1 and 8/2 white with slight variations
Faint mottling above 10 cm.; abundant 2.5 Y 6/2 light brownish gray mottling showing horizontal orientation from 100-175 cm.; faint to no mottling 175-310 cm; 310-350 cm. common to abundant 2.5 Y 6/2 light brownish gray mottles/burrows and few 10 YR 7/1 light gray mottles with concentrations of pteropods; scattered 2.5 Y 6/2 and 10YR 6/1 gray mottles some showing horizontal orientation from 350-453 cm.
Dry silty lutite with common to abundant forams except from 235-290 cm. where foram content appears to decrease
Entire unit shows scattered to common black flecks in varying abundances except very few from 230-290 cm.; shrinkage voids at 150-154, 305-310 cm.
S, mottled.

453-465
CALC OOZE
2.5 Y 6/2 light brownish gray
Scattered small 10 YR 8/2 white mottles
Slightly silty lutite with scattered forams
Shrinkage void 456-461 cm.
Irregular, mottled.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 21 Core No 21 PC

Lithologic Log



Detailed Description

465-607
CALC OOZE
10 YR 7.5/2 light gray except white from 513 grading back to light gray by 550 cm.
Common linear mottles (10 YR 6/1 gray) above 513 cm. widely scattered 10 YR 7/1 light gray mottles with increased foram/pteropod content below 513 cm.
Silty lutite with foram content varying from scattered to common.
Scattered black flecks throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 21 PC

Expedition 205 Station No. 21

Leg No. 2 Total Core Length 607 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			5	7	52	4		25	5		
100	CALC OOZE		1			15	15	42	4		20	3		
255	CALC OOZE		TR			10	5	72	2		10	1		
360	CALC OOZE		TR			5	10	47	3		35	3		
462	CALC OOZE	8	2			14	5	35	5		30	1		
540	CALC OOZE		TR			4	8	69	3		15	1		
606	CALC OOZE		1			8	10	61	5		15	TR		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 21 Core No 21 PC
Total Length 5 cm. Lat. 25°07.10'N Long 77°44.20' W Depth 1468 m corr.
Core condition NOT SPLIT Date Described — by —
Physiographic location LITTLE BAHAMA BANK

Lithologic Log

Detailed Description

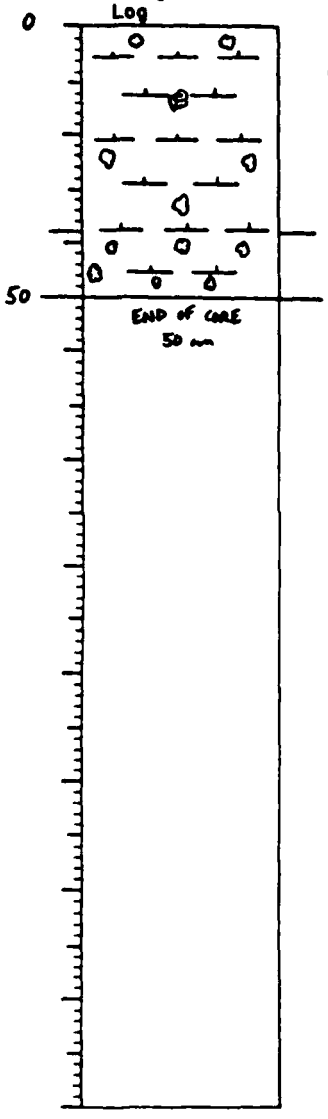
NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 22 Core No 22GGC
Total Length 50 cm. Lat. 26°09.42'N Long. 77°19.16'W Depth 1227 m corr.
Core condition EXCELLENT Date Described 16 JUN 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-38

CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Scattered 10 YR 7.5/2 light gray mottles and intercalations
Silty lutite with common forams and pteropods
Large pteropod filled burrow at 145 cm.; two 10 YR 4/4 dark yellowish brown mottles at 37cm.
C.

38-50

CALC OOZE
10 YR 7.5/2 light gray
Common to abundant 10 YR 7/2 light gray and 10 YR 6/2 light brownish gray mottles
Silty lutite with common forams and pteropods
Few lenses of higher pteropod concentration

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

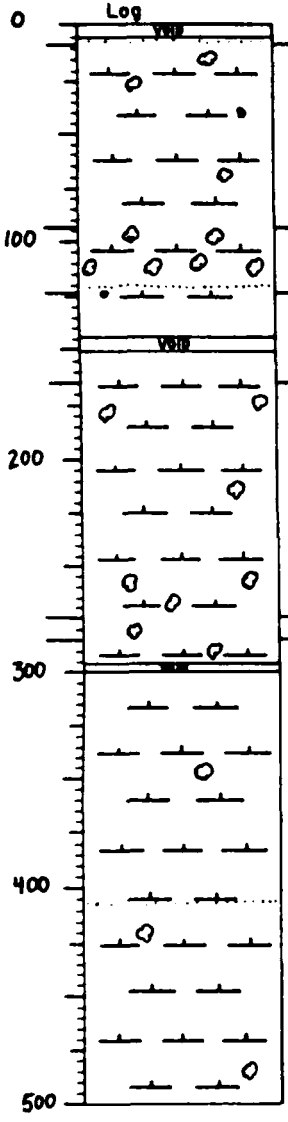
Ship: OCE Core No. 22 GGC
Expedition 205 Station No. 22
Leg No. 2 Total Core Length 50 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE	TR	2			15	20	38	7		15	3		
48	CALC OOZE		1			15	20	36	10		15	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 23 Core No 23 PC
Total Length 754 cm. Lat. 26°09.63'N Long. 77°43.14'W Depth 1222 m corr.
Core condition EXCELLENT Date Described 4 FEB, 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-8
CALC OOZE
10 YR 8/2 white
Silty foram sand with pteropods visible
0-5 cm. shrinkage void
Irregular, concave upward

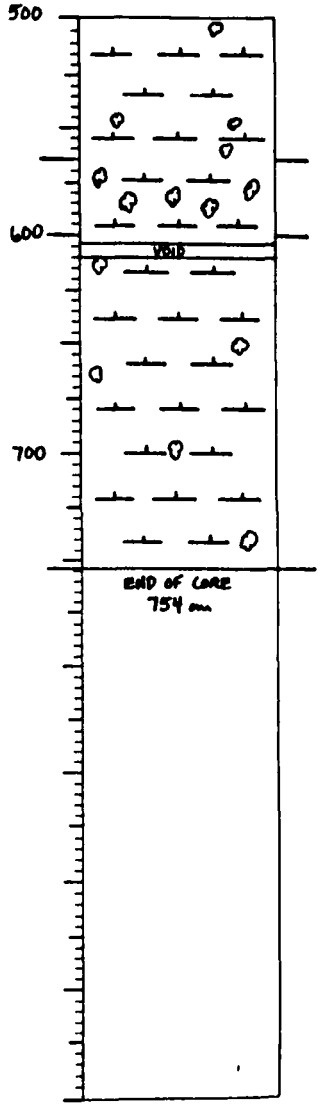
8-94
CALC OOZE
10 YR 7/3 grading to 10 YR 8/3 with many faint variations
10 YR 5/1 gray mottles becoming widely scattered below 30 cm.
Silty lutite with abundant forams becoming common below 35 cm.
Large coral fragment noted at 35 cm.; faint 5 Y 8/3 pale yellow bands scattered throughout
S.

94-124
CALC OOZE
10 YR 8/1 white
Extensively mottled 2.5 Y 6/2 light brownish gray
Silty lutite with common forams and scattered pteropods
.5 cm. foram sand layer at 122 cm.
S

124-165
CALC OOZE
2.5 Y 7/2 light gray becoming 10 YR 7.5/3 very pale brown
Scattered 10 YR 6/2 light brownish gray mottles above 127 cm.
Silty lutite with common forams becoming abundant as color changes
Shrinkage void 144-151 cm.
G.

Ship OCE Cruise 205 Leg 2 Sta. 23 Core No 23 PC

Lithologic Log



Detailed Description

165-275
CALC OOZE
10 YR 8/1 white
Scattered 2.5 Y 7/2 light gray mottles becoming common below 250 cm.
Silty lutite with common to abundant forams and visible pteropods
Few regions faintly tinged with 5Y 8/3 pale yellow
G.

275-285
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 6/2 light brownish gray mottles
Silty lutite with common forams
G, mottled.

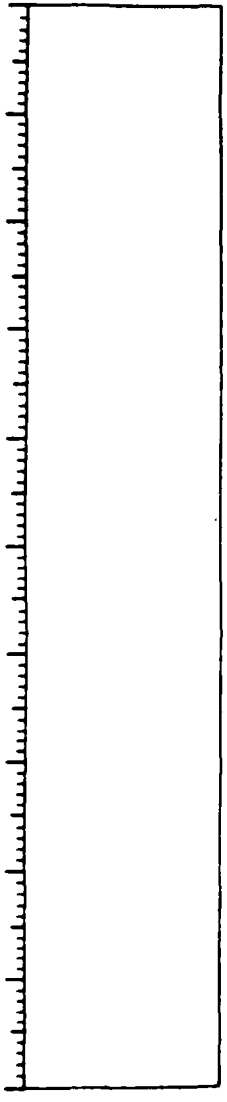
285-565
CALC OOZE
10 YR 8/2 grading to 10 YR 8/1 white
Common 10 YR 7/1 light gray and 2.5 Y 6/2 light brownish gray burrows becoming widely scattered below 295 cm. and more common below 540 cm.
Silty lutite with common to abundant forams and visible pteropods; silty lutite with forams and pteropods in varying concentrations
297-300 cm. shrinkage void; foram and pteropod concentration increases from 350-380 cm. and is reduced from 380-400 cm.; 400-420 cm. contains many 2.5 Y 6/2 and 5/2 brownish gray regions and contains pteropod rich layer from 412-414 cm
G.

565-600
CALC OOZE
10 YR 8/1 white
Common to abundant 10 YR 6.5/2 light brownish gray mottling
Silty lutite with common forams and some visible pteropods
Common black flecks throughout
S, mottled.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 23 Core No. 23 PC

Lithologic Log



Detailed Description

600-754
CALC OOZE
10 YR 8/1
Few widely scattered mottles 10 YR 6/2
Chalky lutite with few forams
604-610 cm. shrinkage void; small black mottle at 667 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 23 PC

Expedition 205 Station No. 23

Leg No. 2 Total Core Length 754 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE		2			13	10	50	5		15	5		
60	CALC OOZE		1			10	15	49	4		20	1		
110	CALC OOZE		1			10	15	45	7	TR	22			
140	CALC OOZE		1			8	20	46	8		15			
220	CALC OOZE		TR			10	12	63	5		10	TR		
280	CALC OOZE	4	2			10	8	45	6		25	TR		
370	CALC OOZE	TR	1			7	10	67	5		10	TR		
500	CALC OOZE		TR			8	10	56	6		20	TR		
580	CALC OOZE	TR	1			6	10	48	9		25	1		
660	CALC OOZE		2			8	6	65	4		15	TR		
753	CALC OOZE		TR			9	6	60	5	TR	20			

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 23 PG

Expedition 205 Station No. 23

Leg No. 2 Total Core Length 105 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			10	15	43	5		20	5		
50	CALC OOZE		1			10	10	48	7		20	4		
91	CALC OOZE		4			9	15	50	15		5	2		

VISUAL CORE DESCRIPTION

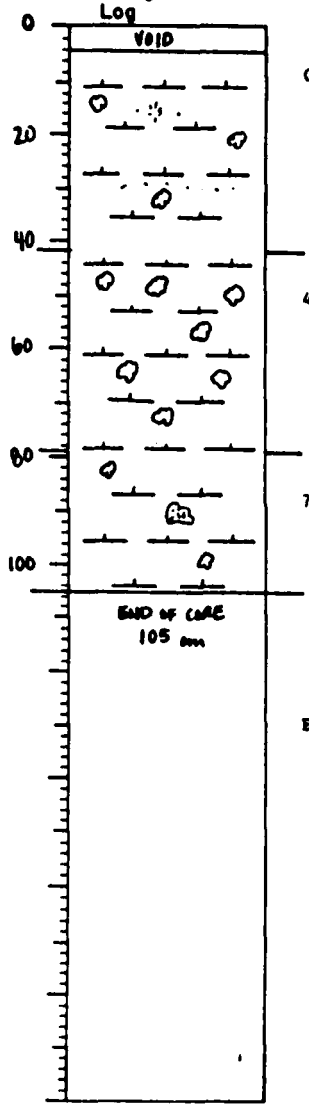
Ship OCE Cruise 205 Leg 2 Sta. 23 Core No 23 PG

Total Length 105 cm. Lat. 26°09.69'N Long. 77°43.14'W Depth 1222 m corr.

Core condition EXCELLENT Date Described 6 FEB 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-42
CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 7/2 light gray and 10 YR 8/2 white mottles
Silty lutite with common to abundant forams and pteropods
0-4 cm. shrinkage void; scattered regions and horizons of increased pteropod concentration
G.

42-79
CALC OOZE
10 YR 8/2 white and 10 YR 7/2 light gray
Common to extensively mottled 10 YR 7/3 very pale brown and 10 YR 7/1 light gray
Silty lutite with common to abundant forams
Amorphous 10 YR 7/4 very pale brown region from 59-65 cm.
G.

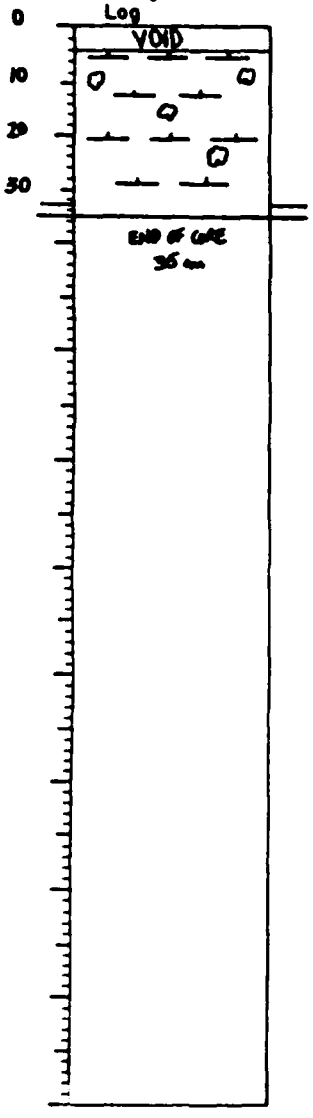
79-105
CALC OOZE
10 YR 7/4 very pale brown
Few 10 YR 8/2 white and 10 YR 7/2.5 pale grayish brown mottles
Very silty/fine sand with abundant forams and pteropods
Some pockets containing very high concentrations of pteropod fragments.

END OF CORE

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 24 Core No 24 GGC
Total Length 35 cm. Lat. 26°N 29'N Long. 77°42.25'W Depth 1043 m
Core condition EXCELLENT Date Described MAY 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-33
CALC OOZE
10 YR 6.5/2 light brownish gray grading to 10 YR 7/2 light gray
Scattered 10 YR 6/3 pale brown and 10 YR 7.5/2 light gray mottles
Silty lutite with common to abundant forams and pteropods
0-4 shrinkage void; faint 10 YR 7/4 very pale brown horizons at 25, 31 cm..
S.

33-35
CALC OOZE
10 YR 7.5/1 light gray
Dry silty lutite with common forams and pteropods
Semi-lithified

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

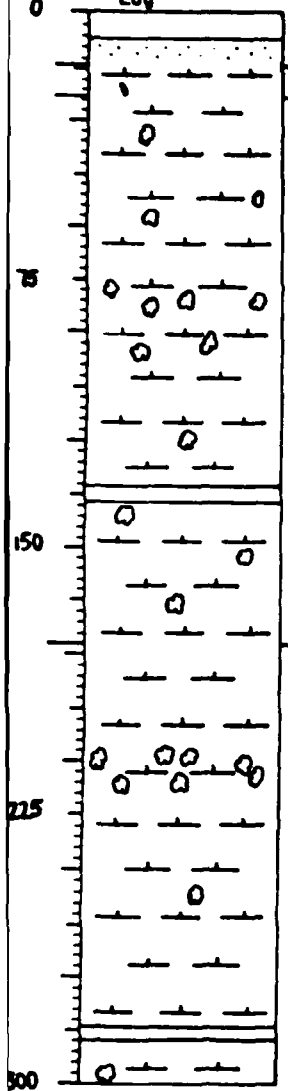
Ship: OCE Core No. 24 GGC
Expedition 205 Station No. 24
Leg No. 2 Total Core Length 35 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		1			10	20	32	8		20	4		
34	CALC OOZE		TR			12	15	41	4		25	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 25 Core No. 25 PC
Total Length 435 cm. Lat. 24° N.0' N Long. 77°42.76' W Depth 1034 m corr.
Core condition EXCELLENT Date Described 28 JAN 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 8/2 white
Washed silt and fine carbonate sand
0-7 cm. shrinkage void
S, concave upward

14-23
CALC OOZE
10 YR 6/2 light brownish gray
Faint variations in color throughout
Silty lutite with common forams and few pteropod fragments
Coral fragment 21-22 cm.

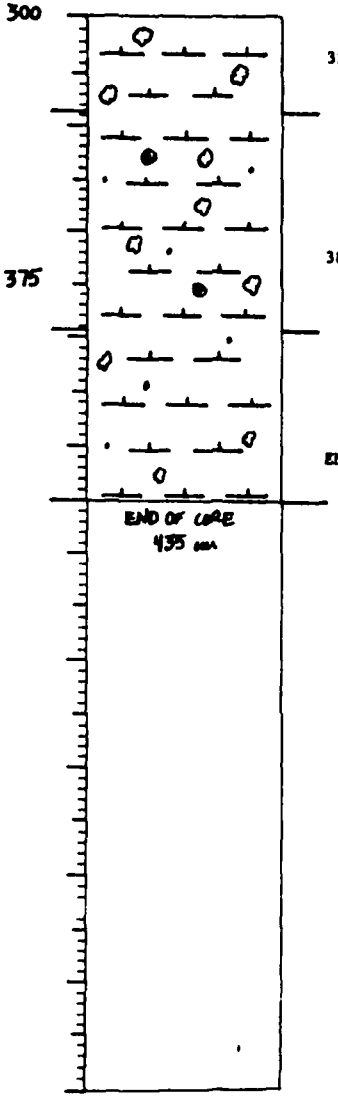
23-177
CALC OOZE
10 YR 8/2 white with variations toward 10 YR 8/3 very pale brown and 10 YR 8/1 white
Scattered 10 YR 7/2 light gray and 10 YR 6/2 light brownish gray mottles but more concentrated from 75-100 cm.
Silty lutite with common to abundant forams and pteropods
Shrinkage void 133-137 cm.
G.

177-326
CALC OOZE
10 YR 8/1 white
Heavily mottled from 208-216 cm. with 10 YR 5/2 grayish brown; otherwise few to no mottles present until below 293 cm. where several large 10 YR 7/2 light gray mottles/burrows are present
Dry chalky lutite with fewer forams
Scattered black flecks increasingly present below 216 cm.; 284-288 cm. shrinkage void
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 25 Core No. 25 PC

Lithologic Log



Detailed Description

326-388
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 6/2 light brownish gray mottles
Silty lutite with scattered to common forams
Unit contains several mottles/burrows containing higher concentrations of pteropod fragments; common black flecks throughout
S.

388-435
NANNO OOZE
10 YR 7.5/2 light gray
Widely scattered 10 YR 6/2 light brownish gray mottles
Slightly silty lutite with scattered forams becoming few below 420 cm.
Common black flecks throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 25 PC

Expedition 205 Station No. 25

Leg No. 2 Total Core Length 435 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
9	CALC OOZE		TR			8	20	45	7		20	TR		
19	CALC OOZE		1			6	8	49	5		25	4		
150	CALC OOZE		TR			8	10	48	8		25	1		
211	CALC OOZE	8	3			16	6	30	2		35			
295	CALC OOZE		TR			10	8	60	2		20	TR		
360	CALC OOZE		1			10	10	56	3		20	TR		
433	NANNO OOZE					2	4	87	1		6	TR		

VISUAL CORE DESCRIPTION

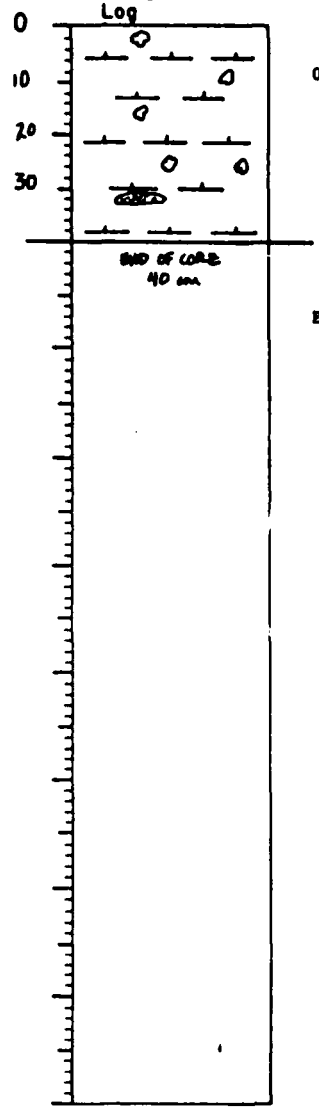
Ship OCE Cruise 205 Leg 2 Sta. 28 Core No 28GGC

Total Length 40 cm. Lat. 26°10.60' N Long. 77°42.65' W Depth 1143 m corr.

Core condition EXCELLENT Date Described 17 JAN 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-40

CALC OOZE
10 YR 6/3 pale brown; 10 YR 7/3 very pale brown and 10 YR 8/2 white
Scattered mottles and intercalations; also scattered 10 YR 6/1 gray mottles
Silty lutite with common forams and scattered pteropods
Moist pteropod-foram rich lens from 30-32 cm.; core becomes drier and semi-lithified near base

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 28GGC

Expedition 205 Station No. 28

Leg No. 2 Total Core Length 40 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		TR			10	8	40	5		30	7		
39	CALC OOZE		TR			15	10	37	5		30	3		

VISUAL CORE DESCRIPTION

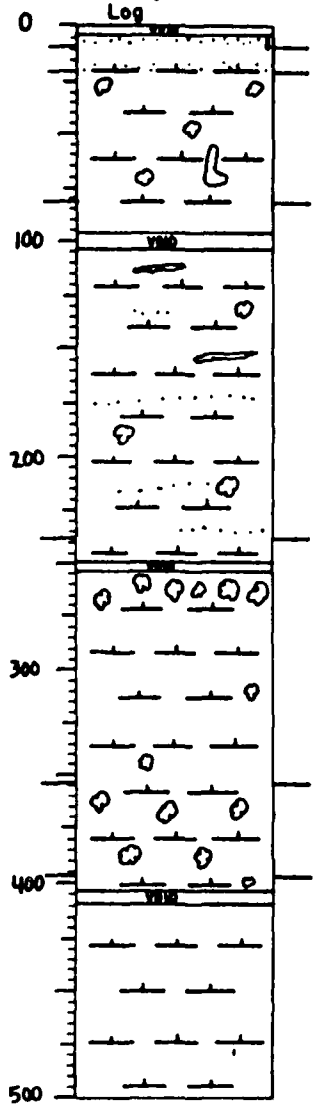
Ship OCE Cruise 205 Leg 2 Sta. 29 Core No 29 PC

Total Length 707 cm. Lat. 26°10.59' N Long. 77°42.67' W Depth 1149 m corr.

Core condition EXCELLENT Date Described 6 FEB 1992 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-9
CALC OOZE
10 YR 8/3 very pale brown
Dry silty lutite grading to foram sand
0-3 cm. shrinkage void; graded bed
S.

9-20
CALC OOZE
10 YR 7/2 light gray grading to 10 YR 7/3 very pale brown
Silty lutite grading to foram sand below 15 cm.
S.

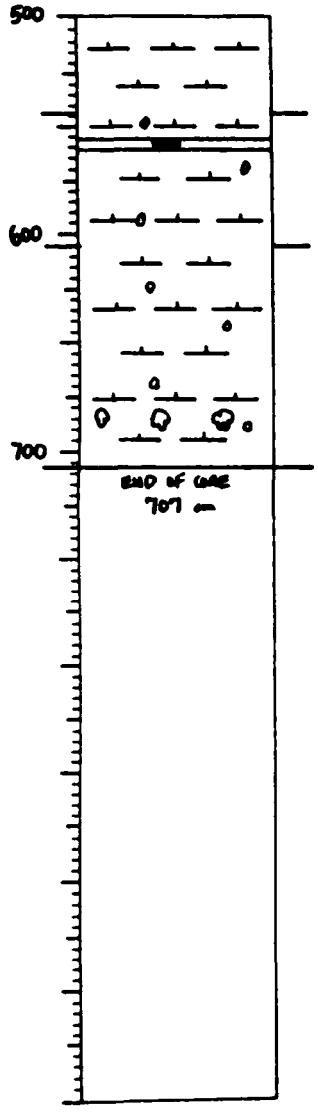
20-82
CALC OOZE
Predominantly 10 YR 8/1 white but with some 10 YR 8/3 very pale brown regions
Common 10 YR 7/2 light gray mottles and intercalations
Silty lutite with common to abundant forams with scattered sandy horizons
Area tinged with 10 YR 8/6 yellow at 37 cm.; large burrow from 55-71 cm.; 71-82 cm. is silt/fine sand bed
S.

82-238
CALC OOZE
10 YR 8/2 white with faint color variations toward 10 YR 7/2 light gray
Scattered 10 YR 7/2 light gray burrows
Dry silty lutite with common to abundant forams
Scattered silty/sandy horizons and pockets of pteropod higher concentration; shrinkage void 97-103 cm.
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 29 Core No. 29 PC

Lithologic Log



Detailed Description

238-354
CALC OOZE
10 YR 8/2 white
Few 10 YR 7/2 light gray burrows scattered throughout
Silty lutite with common forams decreasing to scattered below 268 cm.
Upper 15 cm. esp. above 250 cm. is chunky semi-lithified material with abundant pteropods; 258-268 cm. heavily mottled 10 YR 7/2 light gray
G.

354-397
CALC OOZE
10 YR 7/2
Extensively mottled 10 YR 6.5/2 light brownish gray
Silty lutite with common to abundant forams and pteropods
Silty foram/pteropod sand 385-387 cm.
G.

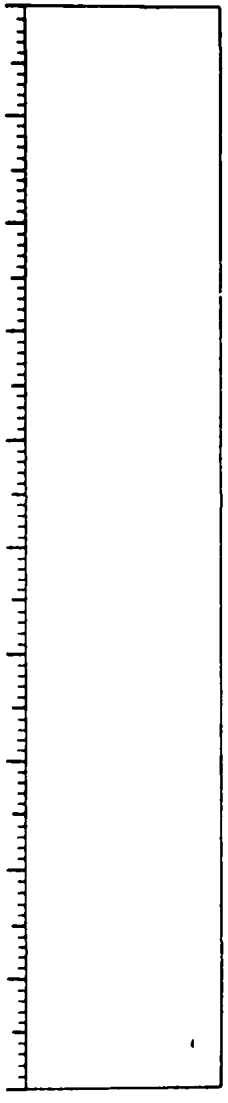
397-544
CALC OOZE
10 YR 8/2 white becoming 10 YR 8/1 white from 447-510 cm.
Scattered 10 YR 7/2 light gray mottles above 415 cm.
Slightly silty lutite with scattered forams grading to few below 440 cm. and increasing to common below 510 cm.
Dry lithified layer from 420-430 cm., scattered black flecks visible throughout; 403-408 cm. shrinkage void
G.

544-606
CALC OOZE
10 YR 7/2 light gray
Faint mottling 10 YR 6.5/2 light brownish gray
Very silty lutite with common to abundant forams and pteropods
556-561 cm. shrinkage void
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 29 Core No. 29 PC

Lithologic Log



Detailed Description

606-707
CALC OOZE
10 YR 8/2 grading to 10 YR 8/1 white
Few faint intercalations
Silty lutite with common forams except fewer from 645-683 cm.
Heavily mottled/burrowed 683-696 cm.; 5Y 5/2 olive gray; 2.5 Y N3/ dark gray burrow at 629 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 29 PC

Expedition 205 Station No. 29

Leg No. 2 Total Core Length 707 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		TR			5	35	37	8		15	TR		
50	CALC OOZE					10	20	50	5		15	TR		
170	CALC OOZE		TR			8	8	60	4		20			
310	CALC OOZE		TR			6	6	58	3		25			
380	CALC OOZE		TR			5	10	57	8		20			
480	CALC OOZE		TR			6	8	60	4		22			
580	CALC OOZE		TR			7	10	58	8		17			
650	CALC OOZE					5	8	60	7		20			
706	CALC OOZE		TR			5	10	70	3		12			

VISUAL CORE DESCRIPTION

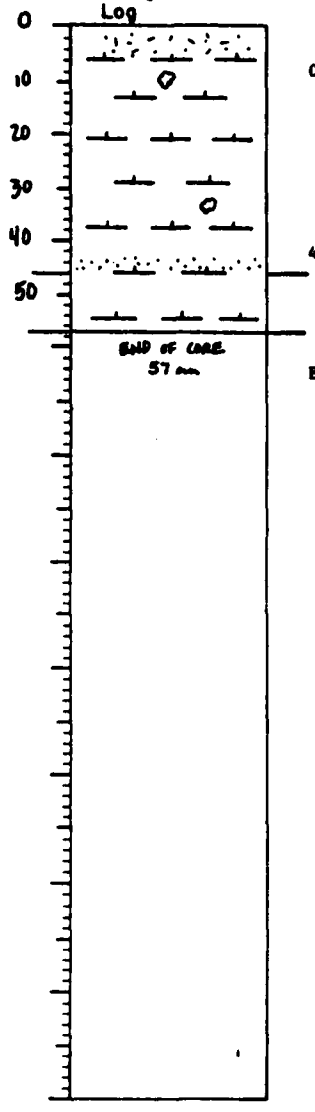
Ship OCE Cruise 205 Leg 2 Sta. 29 Core No 29 PC

Total Length 57 cm. Lat. 26°10.59' N Long. 77°42.67' W Depth 1149 m corr.

Core condition EXCELLENT Date Described 5 FEB 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-46
CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Few 10 YR 7/1 light gray mottles
Moist silty lutite becoming a fine foram silt/sand below 43 cm.
0-7 cm. is very moist pteropod rich lutite
S, concave down

46-57
CALC OOZE
10 YR 7/2 light gray
Silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 29 PG

Expedition 205 Station No. 29

Leg No. 2 Total Core Length 57 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		2			5	15	30	15		25	8		
56	CALC OOZE		1			7	12	40	15		20	5		

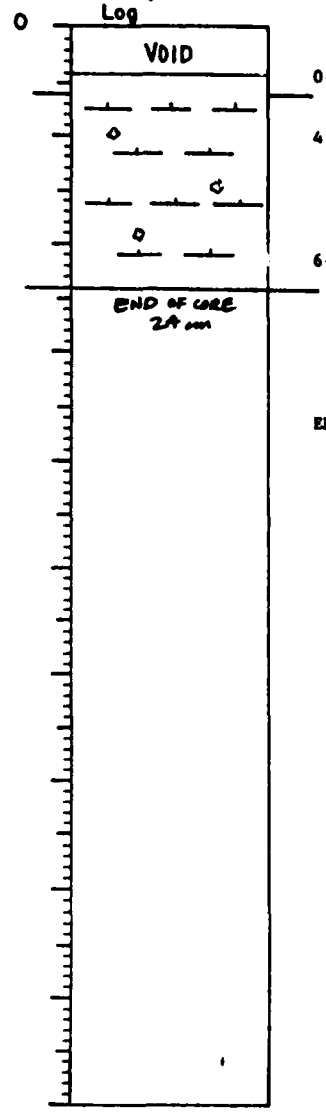
VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 31 Core No. 31GGC

Total Length 24 cm. Lat. 26°11.01'N Long. 77°39.09'W Depth 693 m corr.

Core condition EXCELLENT Date Described 2 DEC 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK



Detailed Description

0-4

0-4 cm. shrinkage void

4-6

CALC OOZE
10 YR 7/2.5 light gray
Silty lutite with common to abundant forams
S.

6-24

CALC OOZE
10 YR 7.5/1 light gray
Few 10 YR 7/2 and 7/1 light gray mottles
Silty lutite with common to abundant forams
Small 10 YR 7/8 yellow feature near base of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 31 GGC

Expedition 205 Station No. 31

Leg No. 2 Total Core Length 24 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			9	15	40	7		25	2		
22	CALC OOZE		1			12	10	45	10		20	2		

VISUAL CORE DESCRIPTION

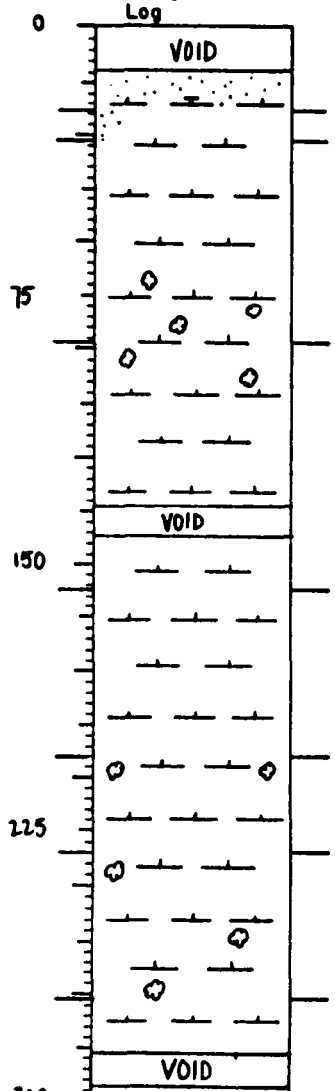
Ship OCE Cruise 205 Leg 2 Sta. 32 Core No 32PC

Total Length 590 cm. Lat. 24° 11.05'N Long. 77°38.93'W Depth 683 m corr.

Core condition EXCELLENT Date Described 20 FEB, 1979 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 8/3 very pale brown
Silt to fine sand
0-11 cm. shrinkage void
S.

23-31
CALC OOZE
10 YR 7/1 light gray
Silty lutite with common forams and some sand of above unit
S, concave downward.

31-88
CALC OOZE
10 YR 8/2.5 very pale brown
Common 10 YR 7/2 light gray mottles below 70 cm.
Dry silty lutite with abundant forams
S, mottled.

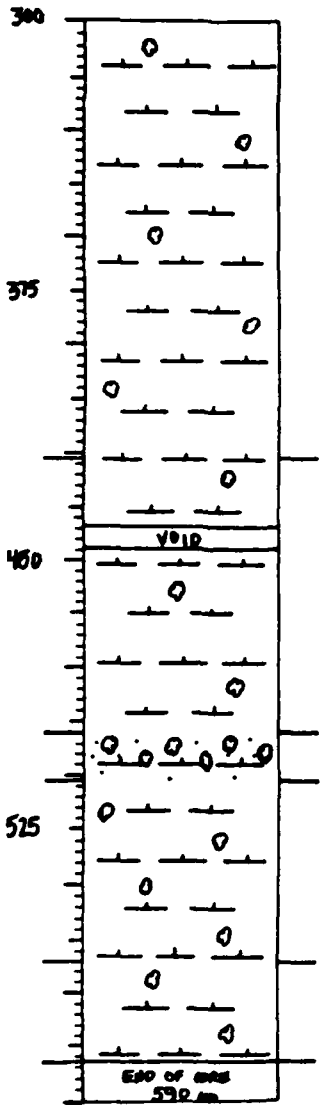
88-157
CALC OOZE
2.5 Y 7/2 light gray but 2.5 Y 7/4 pale yellow from 105-125 cm.
Scattered 10 YR 8/2 white mottles above 105 cm.
Very silty lutite with abundant forams and scattered pteropods
Shrinkage void 134-142 cm.; common black flecks below 145 cm.
S, concave upward.

157-204
CALC OOZE
10 YR 8/2 white
Very silty lutite with abundant forams becoming common below 180 cm.
Common black flecks above 165 cm.
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 32 Core No. 32 PC

Lithologic Log



Detailed Description

204-231
CALC OOZE
2.5 Y 7/2 light gray
Few 10 YR 8/2 white mottles near top of unit
Very silty lutite with scattered forams
Scattered black flecks throughout
S, mottled.

231-271
CALC OOZE
10 YR 8/1 white
Scattered 2.5 Y 7/2 light gray mottles
Silty lutite with scattered forams
Unit is semi-lithified and dry from 235-243 cm.
S, irregular.

271-421
CALC OOZE
2.5 Y 7/2 light gray with faint color changes throughout
Scattered 10 YR 8/2 white mottles throughout
Silty lutite with scattered forams and pteropods in increasing abundance below 400 cm.
S.

421-498
CALC OOZE
10 YR 8/2 white
Scattered large 10 YR 7/2 light gray mottled regions throughout
Dry chalky lutite with common forams and pteropods
Unit appears to be semi-lithified above 440 cm.
G.

498-511
CALC OOZE
10 YR 7/1 and 10 YR 6/1 light gray
Heavily mixed and mottled regions with some 10 YR 8/2 white areas
Very silty lutite with scattered forams
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 32 Core No 32 PC

Lithologic Log

Detailed Description

511-561
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/2 light gray mottles
Dry silty lutite with common forams and pteropods
G.

561-590
CALC OOZE
10 YR 6.5/2 light gray with some mixing
Scattered 10 YR 8/2 white mottles throughout
Very silty lutite with scattered forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 32 PC

Expedition 205 Station No. 32

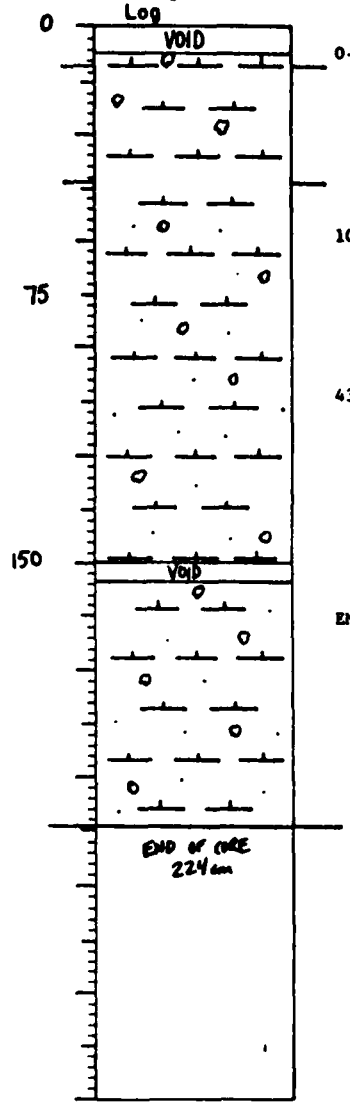
Leg No. 2 Total Core Length 590 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12	CALC OOZE					5	50	20	20		5			
27	CALC OOZE		TR			6	15	47	10		20	2		
60	CALC OOZE		TR			10	8	52	5		25			
120	CALC OOZE		TR			10	20	34	10		25	1		
185	CALC OOZE		TR			8	20	52	5		15			
220	CALC OOZE		1			12	15	44	8		30			
255	CALC OOZE		1			6	15	60	3		15			
360	CALC OOZE		1			5	15	36	8		35			
460	CALC OOZE		TR			5	20	50	5		20			
505	CALC OOZE	7	3			7	15	45	3		20			
540	CALC OOZE		TR			5	15	35	5		40			
589	CALC OOZE		1			5	25	26	8		35			

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 33 Core No 33 GrGc
Total Length 224 cm. Lat. 26°19.26' N Long. 77°41.47' W Depth 783 m corr.
Core condition EXCELLENT Date Described 24 JAN. 1971 by SCHNEIDER/MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10
CALC OOZE
Very pale brown (10 YR 7/4)
Scattered mottling
Silty lutite
0-7 cm; empty due to settling of material; top 1/4 cm. composed of material which settled out
G.

10-43
CALC OOZE
White (10 YR 8/1)
Faint mottling
Silty lutite
Scattered areas of bluish material
G.

43-224
CALC OOZE
White (10 YR 8/1), but faintly lighter than above material
Faint mottling
Silty lutite, with some sand
150-155 cm.; void due to settling of material. 43-70 cm. appears to be a color transition zone into lighter material below

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 33 GGC

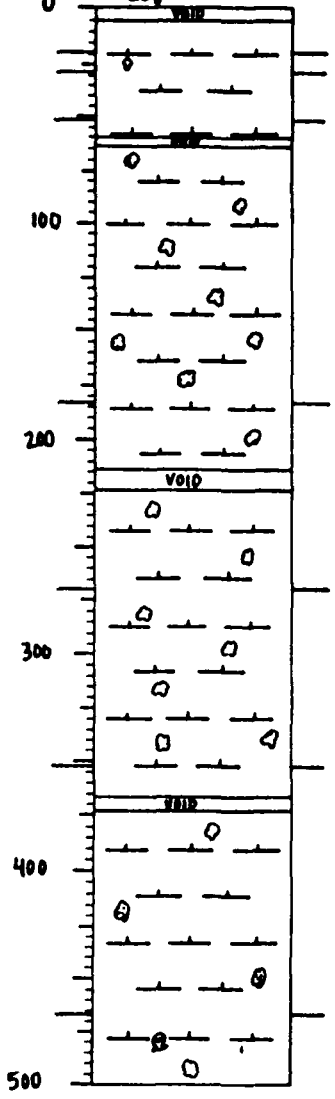
Expedition 205 Station No. 33

Leg No. 2 Total Core Length 224 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE	TR	2			13	10	50	5		15	5		
25	CALC OOZE	TR	1			10	20	35	7		25	2		
75	CALC OOZE		1			11	10	45	6		25	2		
140	CALC OOZE		1			12	5	65		2	15	TR		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 34 Core No 34 PC
Total Length 763 cm. Lat. 26°19.29' N Long. 77°41.43' W Depth 769 m corr.
Core condition EXCELLENT Date Described 8 FEB 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK
Lithologic Log



Detailed Description

0-19
CALC OOZE
10 YR 8.5/2 white
Moist silt/fine sand with abundant forams
0-5 shrinkage void
S, concave upward.

19-28
CALC OOZE
10 YR 7/2 light gray
Few faint 10 YR 8/3 very pale brown mottles
Silty lutite with common forams
G.

28-51
CALC OOZE
10 YR 8/3 very pale brown grading to 10 YR 8/2 white
Silty moist lutite with abundant forams
S.

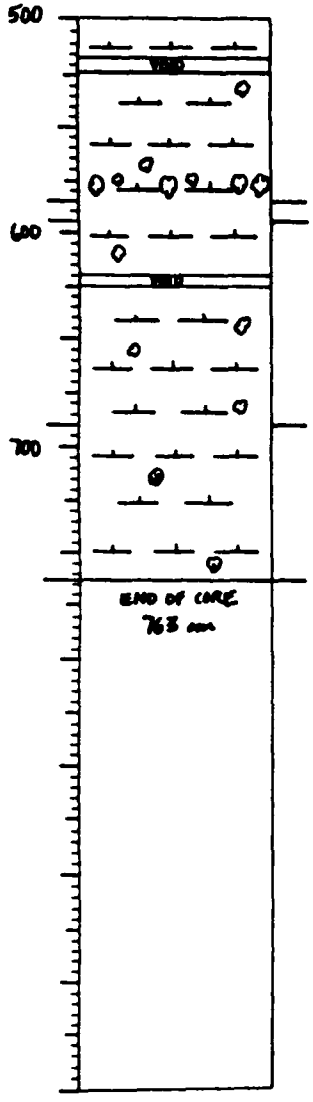
51-183
CALC OOZE
10 YR 7/2 light gray
Common to extensive 10 YR 6.5/2 light gray mottles
Silty lutite with common forams
Scattered black flecks becoming more common below 140 cm; irregular foram sand layer at 170 cm; shrinkage void 60-63 cm.
G.

183-270
CALC OOZE
10 YR 8/2 white but slightly pinkish
Scattered 10 YR 7/1 light gray mottles
Dry silty lutite with abundant foram.
Shrinkage void 214-223 cm.
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 34 Core No. 34 PC

Lithologic Log



Detailed Description

270-352
CALC OOZE
10 YR 7/2 light gray
Common mottling and mixing of 10 YR 8/1 white
Silty lutite with common forams
Few mottles contain greater concentrations of forams
G, mottled.

352-466
CALC OOZE
10 YR 8/2 white with slight variations
Scattered mottles containing high pteropod concentrations
Slightly silty lutite with scattered forams
Shrinkage void 366-373 cm.; large mottled (2.5 Y 6/2 light brownish gray) region from 450-465 cm.
G, mottled.

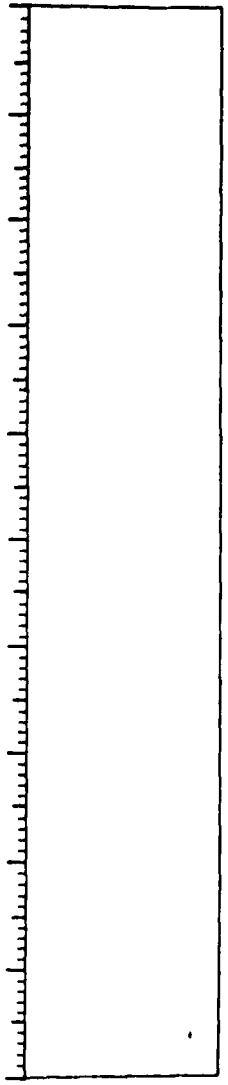
466-585
CALC OOZE
10 YR 8/2 white but slightly more white below 517 cm.
Scattered 10 YR 7/1 light gray mottles
Silty lutite with common to abundant forams
Shrinkage void 517-524 cm.; heavily mottled region 572-585 cm 2.5 Y 6/2 light brownish gray containing some semi-lithified material; small bivalve noted at 479 cm.
S.

585-595
CALC OOZE
10 YR 8/2 white
Hard dry lutite
Semi lithified and chalky
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 34 Core No 34 PC

Lithologic Log



Detailed Description

595-690
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/2 light gray mottles
Silty lutite with common forams
Shrinkage void 620-625 cm.; scattered black flecks throughout
G.

690-763
CALC OOZE
10 YR 7.5/2 light gray
Few sandy/pteropod filled mottles
Silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 34 PC

Expedition 205 Station No. 34

Leg No. 2 Total Core Length 763 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		1			8	10	54	6		20	1		
23	CALC OOZE	1	TR			11	7	55	5		20	1		
40	CALC OOZE	TR	TR			14	6	60	5		15	TR		
130	CALC OOZE		TR			5	10	50	8		25	2		
230	CALC OOZE		1			7	15	50	7		20	TR		
320	CALC OOZE		TR			5	15	46	8		25	1		
420	CALC OOZE		TR			4	8	43	5		40	TR		
515	CALC OOZE		TR			6	10	62	7		15	TR		
590	CALC OOZE		1			4	20	66	1		8			
650	CALC OOZE	1	3			10	8	37	6		35			
762	CALC OOZE					7	10	64	4		15			

VISUAL CORE DESCRIPTION

Page 1 of 1

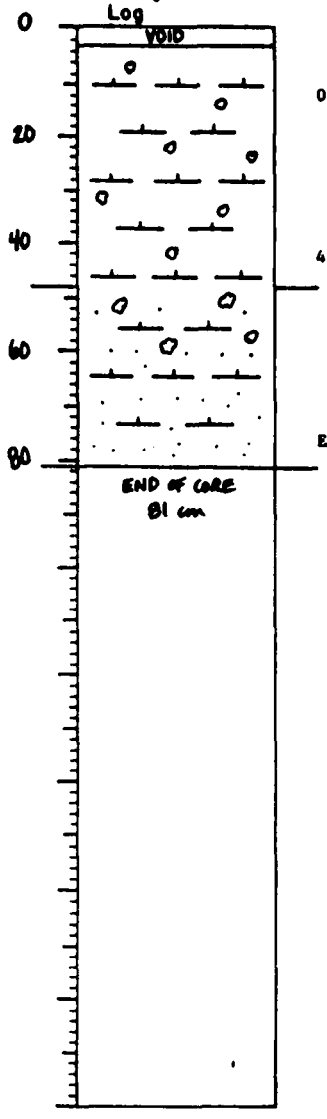
Ship OCE Cruise 205 Leg 2 Sta. 34 Core No 34 PC

Total Length 81 cm. Lat. 24°13.29' N Long 77°41.43' W Depth 769 m corr.

Core condition EXCELLENT Date Described 11 FEB 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-48
CALC OOZE
10 YR 7.5/2 light gray
Common but very faint mottling throughout
Silty lutite with common forams and pteropods
0-3 cm. shrinkage void; good coretop; 3-8 cm. is 10 YR 7/3 very pale brown and 10 YR 7/6 yellow

48-81
CALC OOZE
10 YR 8/3 very pale brown
Common 10 YR 7/2 light gray mottles above 65 cm.
Very silty/sandy lutite with abundant forams and pteropods
Sample is dry and semi lithified below 70 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 34 PG

Expedition 205 Station No. 34

Leg No. 2 Total Core Length 81 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		TR			8	20	38	7		25	2		
25	CALC OOZE	TR	TR			10	7	50	5		25	3		
80	CALC OOZE	TR				6	8	48	9		25	2		

VISUAL CORE DESCRIPTION

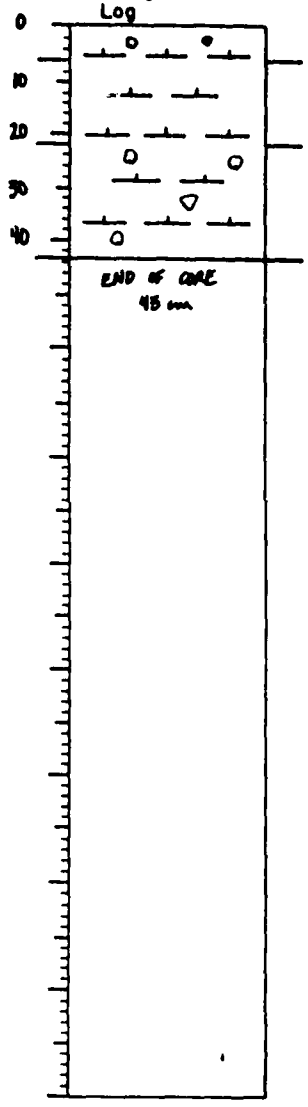
Ship OCE Cruise 205 Leg 2 Sta. 35 Core No 35 GGC

Total Length 43 cm. Lat. 26° 13.47' N Long. 77° 42.25' W Depth 881 m corr.

Core condition EXCELLENT Date Described 29 JAN, 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-6
CALC OOZE
10 YR 6/3 pale brown
Faint 10 YR 7/3 very pale brown mottling
Silty lutite with common forams
G.

6-22
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 7/5 yellowish brown regions
Very silty lutite with common forams and visible pteropod frags.
S.

22-43
CALC OOZE
10 YR 7/2 light gray
Very faint 10 YR 7/1 light gray color changes
Silty to sandy lutite with common to abundant forams and pteropod fragments
39-43 cm. semi-lithified

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 35 GGC

Expedition 205 Station No. 35

Leg No. 2 Total Core Length 43 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		TR			7	10	48	7	TR	25	3		
15	CALC OOZE	TR	TR			10	18	43	12		25	2		
38	CALC OOZE		1			15	25	27	10		20	2		

VISUAL CORE DESCRIPTION

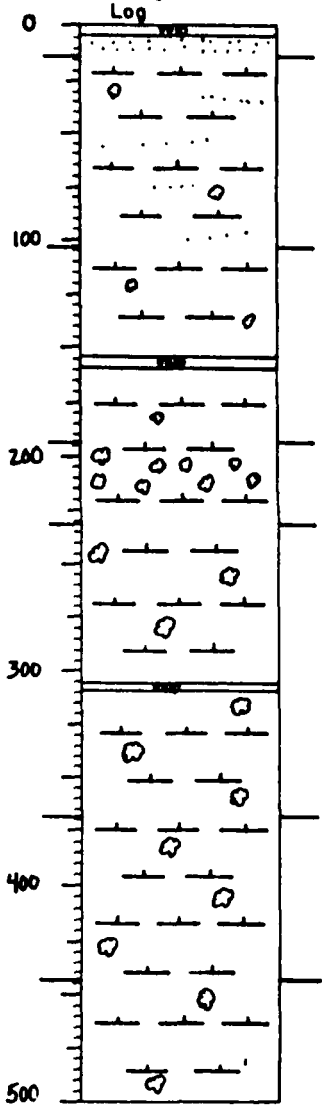
Ship OCE Cruise 205 Leg 2 Sta. 36 Core No 36 PC

Total Length 762 cm. Lat. 26°13.59'N Long. 77°42.4'W Depth 900 m corr.

Core condition EXCELLENT Date Described 7 FEB 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 7/2 white
Silt/fine calcareous sand
0-4 cm. shrinkage void
S.

13-103
CALC OOZE
10 YR 7/2 white with many faint color changes
Few widely scattered mottles 10 YR, 10 YR 7.5/2 and 7.5/3 very pale brown
Silly lutite with common forams and common pteropods
Upper 6 cm. of unit is 10 YR 8/1 white; several very silty/sandy horizons of increased pteropod concentration throughout
G.

103-193
CALC OOZE
10 YR 8/1.5 white
Scattered very faint mottling 10 YR 8/2 white
Silty lutite with common forams and pteropods
Scattered black flecks becoming common below 220 cm.
G, mottled.

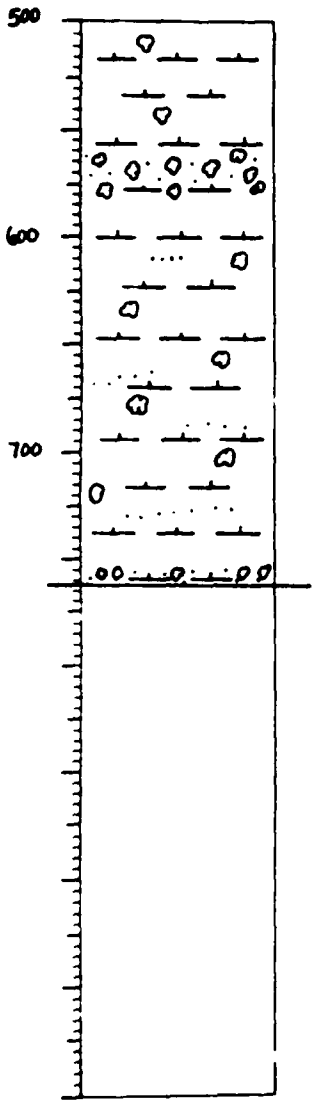
193-232
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 7.5/1 white mottling
Silty lutite with common forams and pteropods
Scattered black flecks becoming common below 220 cm.
G, mottled.

232-369
CALC OOZE
10 YR 8/2 white but slightly pinkish above 300 cm.
Common large 10 YR 7/2 light gray sandy mottles
Very silty lutite with common to abundant forams and pteropods
306-309 shrinkage void

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 36 Core No 36 PC

Lithologic Log



Detailed Description

369-443
CALC OOZE
10 YR 7.5/2 white
Common 10 YR 7/3 very pale brown mottles
Silty lutite with common forams
C, mottled.

443-762
CALC OOZE
10 YR 8/2 white
Scattered groups of 10 YR 7/2 light gray and 10 YR 7/3 very pale brown mottles
Silty lutite with common to abundant forams; scattered regions of increased pteropod concentration occasionally in horizontally oriented structures
Common black flecks throughout; 560-580 cm. and 755-762 are heavily mottled and mixed regions of 2.5 Y 6/2 light brownish gray lutite containing small white flecks

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 36 PC

Expedition 205 Station No. 36

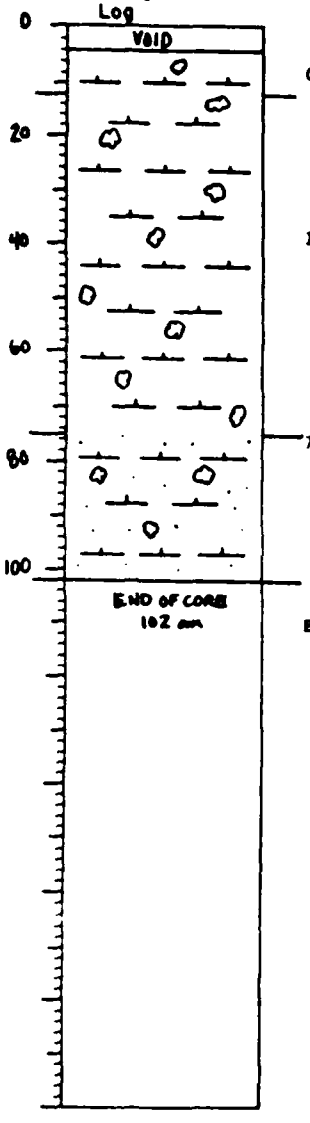
Leg No. 2 Total Core Length 762 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		TR			8	30	42	7		10	3		
70	CALC OOZE	TR	TR			8	10	55	5		20	2		
165	CALC OOZE		1			5	20	43	9		20	2		
210	CALC OOZE		TR			5	15	50	7		20	3		
300	CALC OOZE		TR			6	10	58	6		20	TR		
415	CALC OOZE		1			4	20	46	8		20	1		
500	CALC OOZE		TR			5	8	65	7		15	TR		
600	CALC OOZE		1			6	15	63	5		10	TR		
700	CALC OOZE		3			5	18	50	4		20	TR		
761	CALC OOZE	8	4			15	2	39	2		30			

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 36 Core No 36 PG
Total Length 102 cm Lat. 26°15.59'N Long. 77°42.44'W Depth 900 m corr.
Core condition EXCELLENT Date Described FEB. 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 7/2 light gray
Single 10 YR 8/2 white mottle at 7-8 cm.
Silty lutite with common forams and pteropods
0-4 cm. shrinkage void; good core top
G, mottled.

12-75
CALC OOZE
10 YR 8/1 white
Common 10 YR 7.5/1 light gray mottles throughout
Silty lutite with common forams and increasing pteropods down section
Several 10 YR 7/4 very pale brown mottles above 18 cm.
S.

75-102
CALC OOZE
10 YR 8/3 very pale brown
Scattered 10 YR 7/1 light gray mottling
Very silty/sandy lutite with abundant forams and pteropods
Catcher void 99-102 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 36 PG
Expedition 205 Station No. 36
Leg No. 2 Total Core Length 102 cm

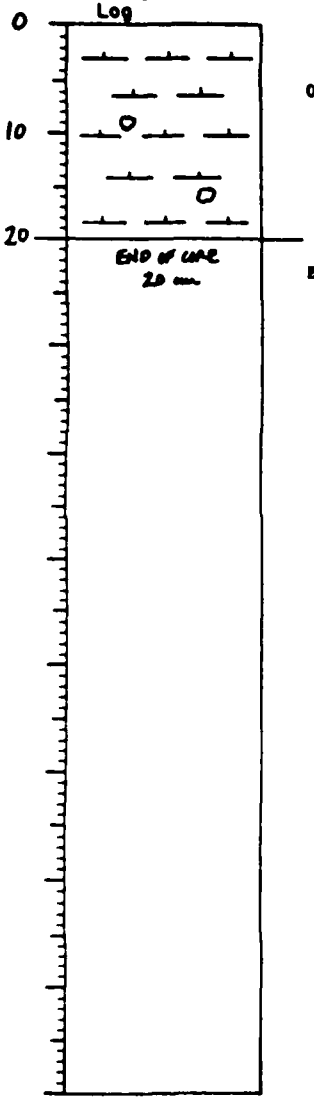
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			7	15	48	4		20	4		
45	CALC OOZE		1			9	10	48	8		20	4		
96	CALC OOZE		3			5	15	45	15		10	7		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 38 Core No 38 GGC
Total Length 20 cm. Lat. 26°13.10'N Long. 77°39.81'W Depth 562 m corr.
Core condition EXCELLENT Date Described 28 JAN 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-20

CALC OOZE
10 YR 7/2 light gray
Few faint 10 YR 7/1 light gray mottles below 6 cm.
Silty moist lutite with common to abundant forams and pteropods
0-2 cm. more 10 YR 7/3 very pale brown

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

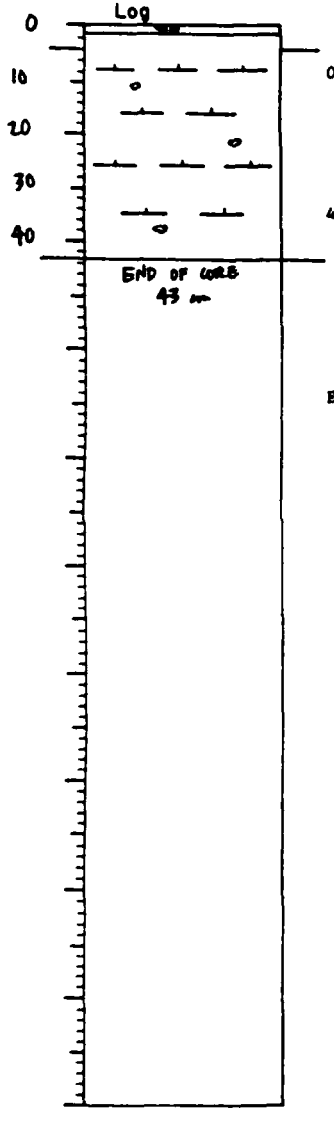
Ship: OCE Core No. 38GGC
Expedition 205 Station No. 38
Leg No. 2 Total Core Length 20 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)														
		Inorganic Material					Biogenous Material									
		Silt & Sand					Calcareous					Siliceous				
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges		
1	CALC OOZE		TR			5	25	48	4		15	3				
19	CALC OOZE		TR			4	25	45	5		20	1				

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 41 Core No 41GGC
Total Length 43 cm. Lat. 26°13.66' N Long. 77°40.39' W Depth 599 m corr.
Core condition EXCELLENT Date Described 8 DEC. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-4
CALC OOZE
10 YR 7/2.5 light gray
Silty lutite with common forams
0-1 cm. shrinkage void
S.

4-43
CALC OOZE
10 YR 8/1 white
Faint 10 YR 7/2 light gray mottling
Silty lutite with common forams and scattered pteropods
Sediment slightly disturbed? 22-31 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

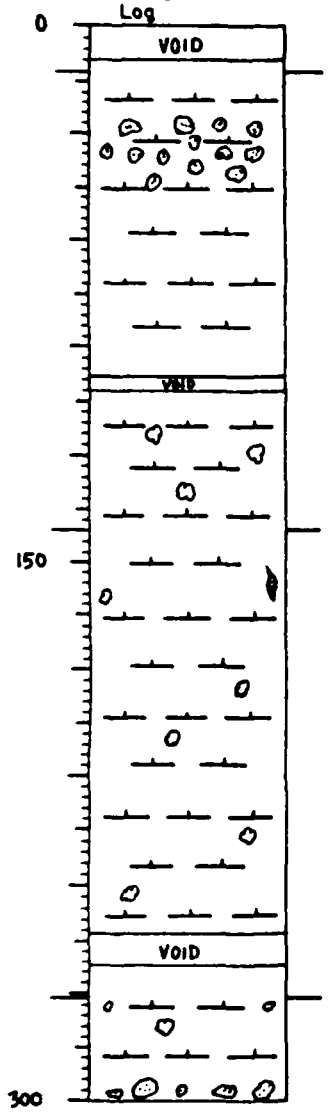
Ship: OCE Core No. 41 GGC
Expedition 205 Station No. 41
Leg No. 2 Total Core Length 43 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			8	15	40	8		25	2		
35	CALC OOZE		1			12	10	40	10		25	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 42 Core No. 42 PC
Total Length 558 cm. Lat. 26°13.95' N Long. 77°40.64' W Depth 593 m corr.
Core condition EXCELLENT Date Described 15 FEB 1971 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 8/2 white
Fine carbonate sand
0-9 cm. shrinkage void; sand resulting from disturbance then settling of core top
S.

12-141
CALC OOZE
10 YR 7/2 light gray becoming 10 YR 8/3 below 25 cm.
Scattered to common 10 YR 7/2 light gray mottling /mixing below 115 cm.
Dry silty/sandy lutite with common forams and pteropods
Entire unit has partially lithified character but especially above 50 cm. where larger hardened pebble to stone size bits are present; shrinkage void 98-102 cm.
G, mottled.

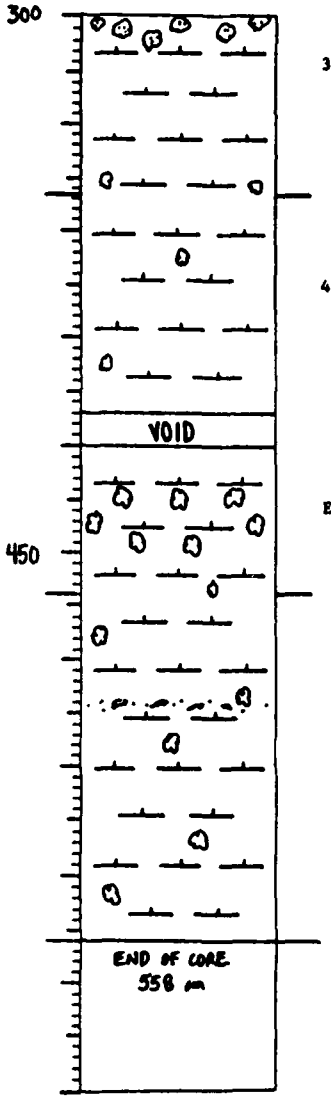
141-271
CALC OOZE
2.5 Y 7/2 light gray grading to 2.5 Y 7.5/2 light gray
Large 10 YR 8/2 mottle 150-152 cm.; scattered 2.5 Y 7/2 light gray mottles elsewhere
Silty lutite with scattered forams
Intact shell at 158 cm.; few pteropods visible below 220 cm.
S.

271-350
CALC OOZE
10 YR 8/1.5 white
Few faint 10 YR 7/2 light gray mottles near top and bottom contacts
Dry sandy lutite with lithified bits
289-315 cm. is especially dry and contains stone size lithified regions; scattered skeletal and or coral chips noted; shrinkage void 253-262 cm.
S, mottled.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 42 Core No 42 PC

Lithologic Log



Detailed Description

350-462
CALC OOZE
2.5 Y 7/2 light gray grading to 10 YR 7/2 light gray
Few 10 YR 8/2 white mottles except extensive from 430-452 cm.
Silty lutite with few forams
Mottled region is drier and siltier than surrounding material; shrinkage void 411-420 cm.
S.

462-558
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/2 mottles throughout
Dry silty lutite with scattered forams
Unit is very similar to drier region above with exception of 494-510 cm. and 529-531 cm. where there appears to be less silt; 492-494 cm. contains several skeletal or coral fragments.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 42 PC

Expedition 205 Station No. 42

Leg No. 2 Total Core Length 558 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE		TR			5	40	20	10		25	TR		
80	CALC OOZE		TR			8	20	52	5		15	TR		
200	CALC OOZE					3	25	15	6		50	1		
310	CALC OOZE		TR			5	8	58	4		25			
400	CALC OOZE		TR			4	20	33	8		35	TR		
500	CALC OOZE		2			2	10	51	5		30			
557	CALC OOZE		TR			3	20	55	2		20			

VISUAL CORE DESCRIPTION

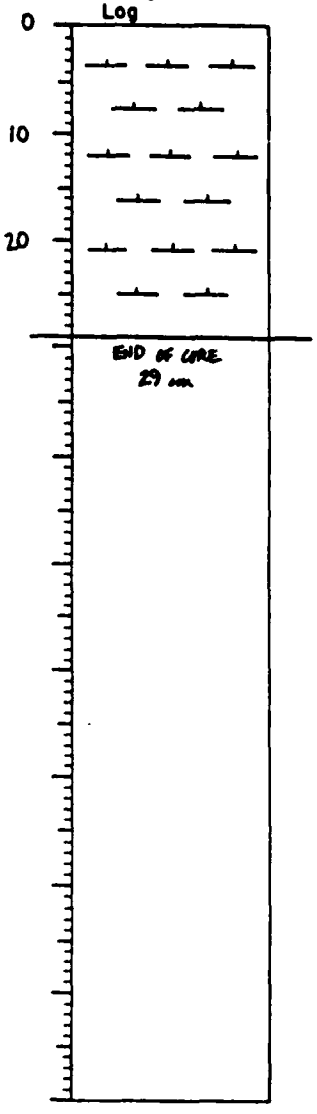
Ship OCE Cruise 205 Leg 2 Sta. 43 Core No 43 GGC

Total Length 29 cm. Lat. 26°15.08'N Long. 77°42.22'W Depth 479 m corr.

Core condition EXCELLENT Date Described 25 FEB, 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-29

CALC OOZE
10 YR 8/1 white but slightly pale brown above 3 cm.
Silty lutite with common forams
Some pteropods and coral or skeletal fragments noted.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 43 GGC

Expedition 205 Station No. 43

Leg No. 2 Total Core Length 29 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		1			6	20	38	8		25	4		
28	CALC OOZE		2			8	10	38	10		30	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 45 Core No 45 GGC

Total Length 1 cm. Lat. 26°15.99' N Long. 77°42.22' W Depth 578 m corr.

Core condition NOT SPLIT Date Described — by —

Physiographic location LITTLE BAHAMA BANK

Lithologic Log

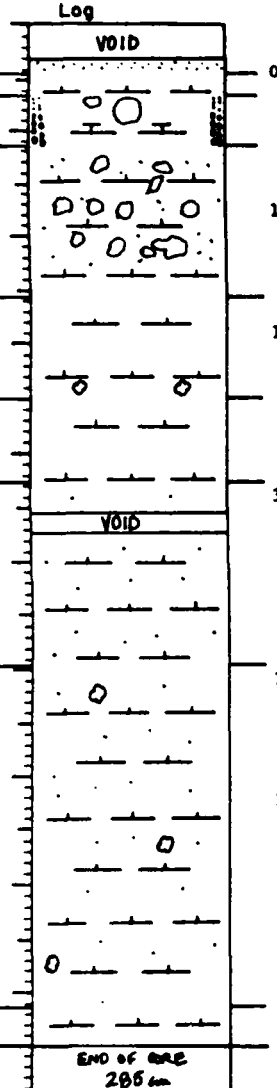
Detailed Description

NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 46 Core No 46PC
Total Length 285 cm. Lat. 26°15.77'N Long. 77°42.23'W Depth 570 m corr.
Core condition EXCELLENT Date Described 21 Feb. 79 by P.MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 8/2 white
Fine foram sand
0-9 cm. shrinkage void
S.

13-19
CALC OOZE
10 YR 7/2 light gray
Dry silty lutite with common forams
S, irregular.

19-34
CALC OOZE
10 YR 7.5/3 very pale brown
Silt to foram sand
Graded foram sand bed; large lithified bits 20-25 cm.
S, irregular.

34-77
CALC OOZE
10 YR 8/2 white
Silty/sandy dry material with abundant pteropods and coral fragments
Unit contains many lithified pebble to stone size bits and appears to be particularly consolidated from 37-47 cm.

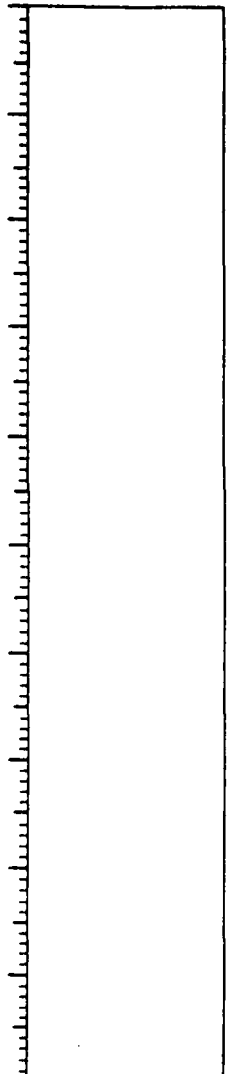
77-105
CALC OOZE
10 YR 8/2 white
Few 10 YR 7/2 light gray mottles near unit base
Dry silty lutite with common forams

105-128
CALC OOZE
10 YR 7/2 light gray
Silty lutite with some fine sand
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 46 Core No. 46PC

Lithologic Log



Detailed Description

128-179
CALC OOZE
10 YR 7.5/2 light gray with faint color variations
Very silty dry lutite with scattered forams, pteropods and coral fragments
Scattered black flecks below 170 cm.
S, textured.

179-274
CALC OOZE
10 YR 8/2 white
Widely scattered 10 YR 7/2 light gray mottles
Dry silty/fine sand with abundant forams and pteropods
Semi-lithified region from 215-230 cm.; less sand below 248 cm.
S.

274-285
CALC OOZE
10 YR 7/2 light gray
Very silty lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 46 PC

Expedition 205 Station No. 46

Leg No. 2 Total Core Length 285 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE		TR			5	60	20	5		10	TR		
15	CALC OOZE		TR			7	20	20	10		40	3		
64	CALC OOZE					6	5	58	1		30			
90	CALC OOZE					5	20	46	4		25			
115	CALC OOZE		TR			5	20	40	5		30			
160	CALC OOZE		TR			3	10	55	7		25			
240	CALC OOZE		TR			10	15	58	2		15			
284	CALC OOZE					5	15	51	4		25	TR		

VISUAL CORE DESCRIPTION

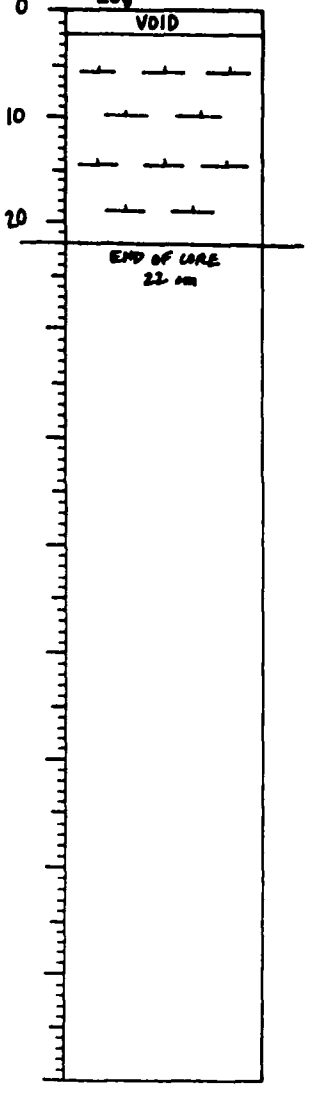
Ship OCE Cruise 205 Leg 2 Sta. 46 Core No 46 PC

Total Length 22 cm. Lat. 26°44.22'N Long. 77°41.05'W Depth 595 m corr.

Core condition EXCELLENT Date Described 6 DEC 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-22

CALC OOZE
10 YR 7/2 light gray with some brown above 8 cm.
Silty lutite with abundant forams and some pteropods
Shrinkage void 0-2 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 48 BC

Expedition 205 Station No. 48

Leg No. 2 Total Core Length 22 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		1			9	15	40	8		25	2		
21	CALC OOZE	TR	TR			10	10	38	10		30	2		

VISUAL CORE DESCRIPTION

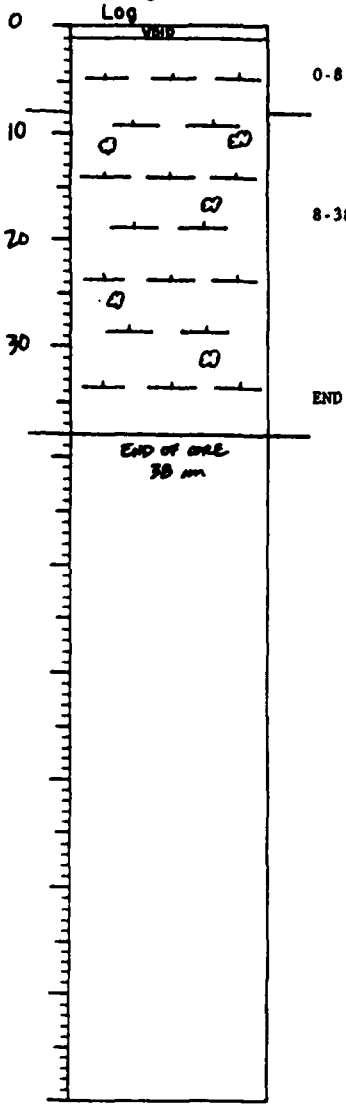
Ship OCE Cruise 205 Leg 2 Sta. 50 Core No 50 BC

Total Length 38 cm. Lat. 26°17.48'N Long. 77°41.81'W Depth 817 m corr.

Core condition EXCELLENT Date Described 9DEC'91 by P.MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-8

CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Silty lutite with common forams and pteropods
0-1 cm. shrinkage void
S.

8-38

CALC OOZE
10 YR 8/1 white
Common 10 YR 7.5/1.5 light gray mottling
Silty lutite with abundant forams and common pteropods
Regions of 10 YR 7/6 yellow lutite above 13 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 50 BC

Expedition 205 Station No. 50

Leg No. 2 Total Core Length 38 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		4			10	15	40	8		20	3		
35	CALC OOZE		1			12	7	54	4		20	2		

VISUAL CORE DESCRIPTION

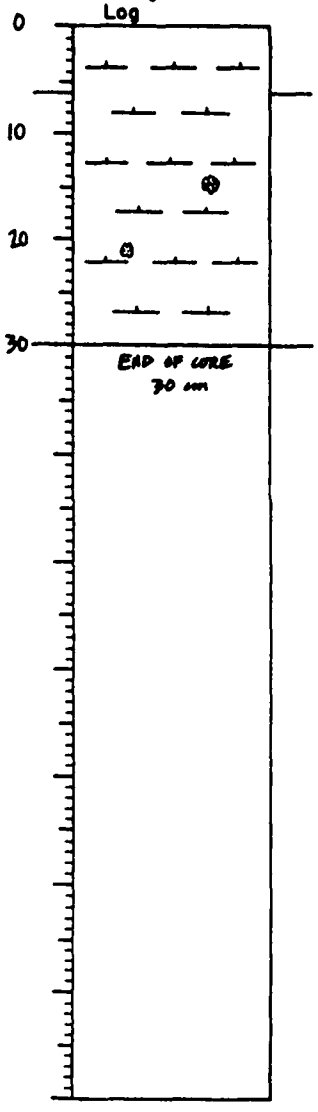
Ship OCE Cruise 205 Leg 2 Sta. 51 Core No 51BC

Total Length 30 cm. Lat. 26°19.55'N Long. 77°42.11'W Depth 830 m corr.

Core condition EXCELLENT Date Described SEPT, 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-6
CALC OOZE
10 YR 7/3 very pale brown
Silty lutite with common forams and pteropods
S.

6-30
CALC OOZE
10 YR 8/1 white
Few sandy mottles
Silty lutite with common to abundant forams and pteropods
Scattered 10 YR 7/6 yellow regions above 13 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 51 BC

Expedition 205 Station No. 51

Leg No. 2 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		2			12	8	42	7		25	4		
29	CALC OOZE		1			10	15	41	10		20	3		

VISUAL CORE DESCRIPTION

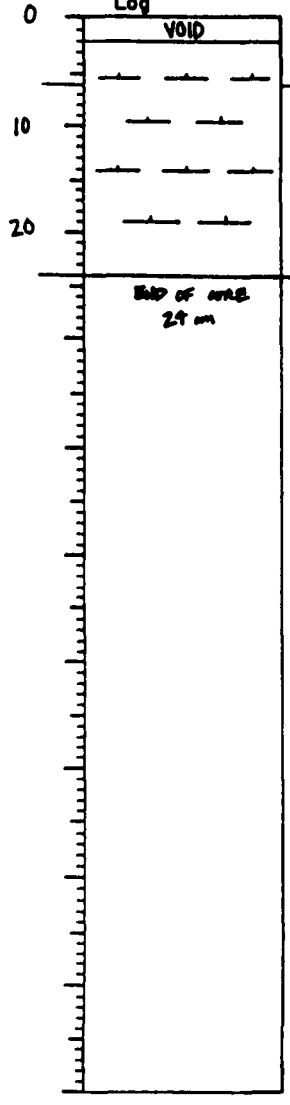
Ship OCE Cruise 205 Leg 2 Sta. 52 Core No 52 BC

Total Length 24 cm. Lat. 26°14.21' N Long. 77°41.54' W Depth 668 m corr.

Core condition EXCELLENT Date Described 5 DEC. '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-6

CALC OOZE
10 YR 7/2 light gray and 10 YR 7/5 pale brownish yellow
Some mixing of main colors noted
Silty lutite with common forams and pteropods
Shrinkage void 0-2 cm.
S.

6-24

CALC OOZE
10 YR 7.5/1 white
Silty lutite with common to abundant forams
Few pteropods noted

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 52 BC

Expedition 205 Station No. 52

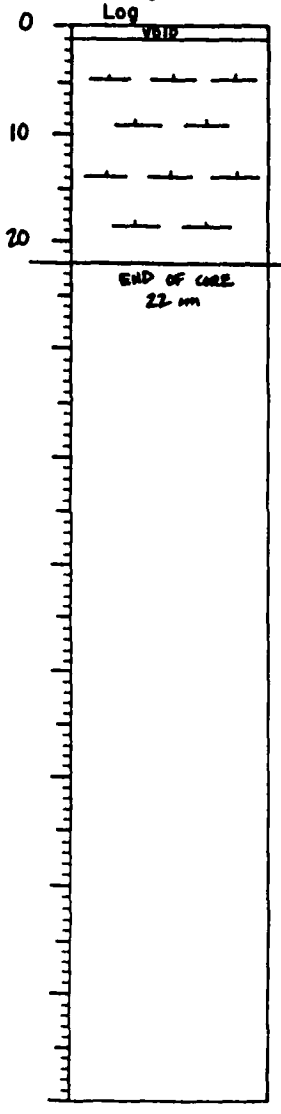
Leg No. 2 Total Core Length 24 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		2			10	15	45	10		15	3		
23	CALC OOZE		2			9	10	50	6		20	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 52 Core No 52BC
Total Length 22 cm. Lat. 26°11.51'N Long. 77°42.55'W Depth 1038 m corr.
Core condition EXCELLENT Date Described 6 DEC, 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-22
CALC OOZE
Mainly 10 YR 7/2 light gray
Common 10 YR 7/1 light gray and 7/3 very pale brown mottles
Silty lutite with common to abundant forams and pteropods
0-1 cm. shrinkage void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 53 BC

Expedition 205 Station No. 53

Leg No. 2 Total Core Length 22 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			8	20	39	7		20	4		
21	CALC OOZE		1			12	10	50	5		20	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

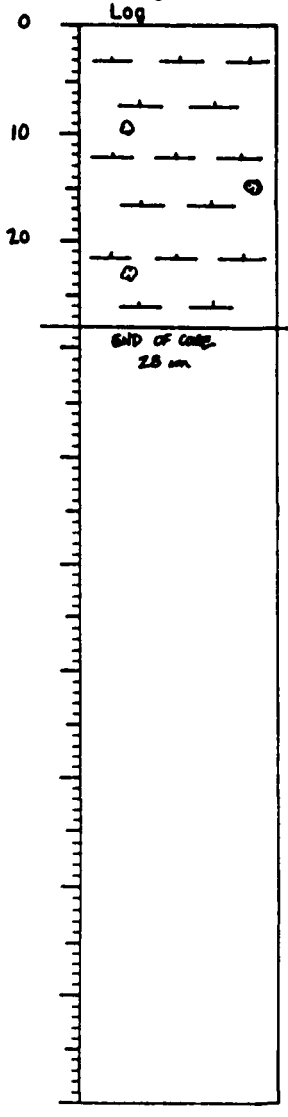
Ship OCE Cruise 205 Leg 2 Sta. 55 Core No 55 BC

Total Length 28 cm. Lat. 26°10.11'N Long. 77°42.45'W Depth 1140 m

Core condition EXCELLENT Date Described 10 DEC '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-28

CALC OOZE
Primarily 10 YR 7/2.5 light grayish brown with swirls of 10 YR 8/3 very pale brown and 10 YR 8/1 white
Main colors are well mixed with scattered 10 YR 7/1 light gray mottling also present
Silty lutite with common to abundant forams and pteropods
Scattered regions of increased pteropod concentration; core sandy near top

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 55 BC

Expedition 205 Station No. 55

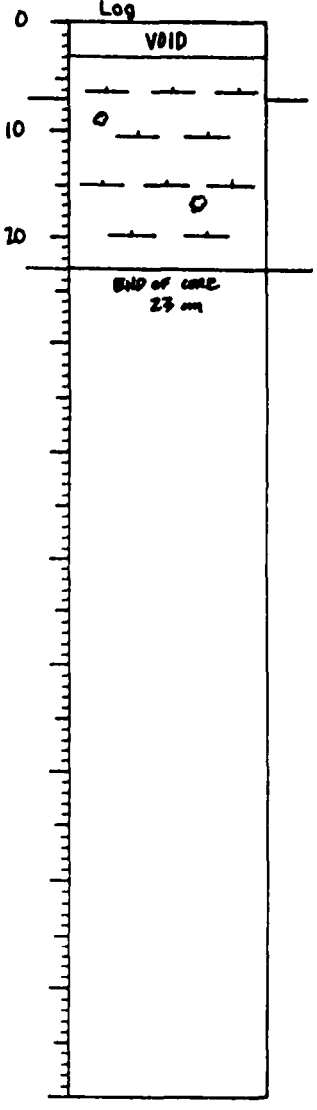
Leg No. 2 Total Core Length 28 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		3			8	15	35	10		25	4		
27	CALC OOZE		2			10	10	40	10		25	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 55 Core No 55BC
Total Length 23 cm. Lat. 26°09.89' N Long. 77°43.32 Depth 1237 m corr.
Core condition EXCELLENT Date Described DEC. 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-7
CALC OOZE
10 YR 7/2 light gray
Very silty moist lutite/foram-pteropod sand
Shrinkage void 0-3 cm.
G, irregular

7-23
CALC OOZE
10 YR 7.5/3 very pale brown
Few scattered 10 YR 7/1 light gray and 10 YR 8/1 white mottles
Silty lutite with common to abundant forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 58 BC

Expedition 205 Station No. 58

Leg No. 2 Total Core Length 23 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		2			10	20	33	7		25	3		
22	CALC OOZE		2			8	10	35	8		35	2		

VISUAL CORE DESCRIPTION

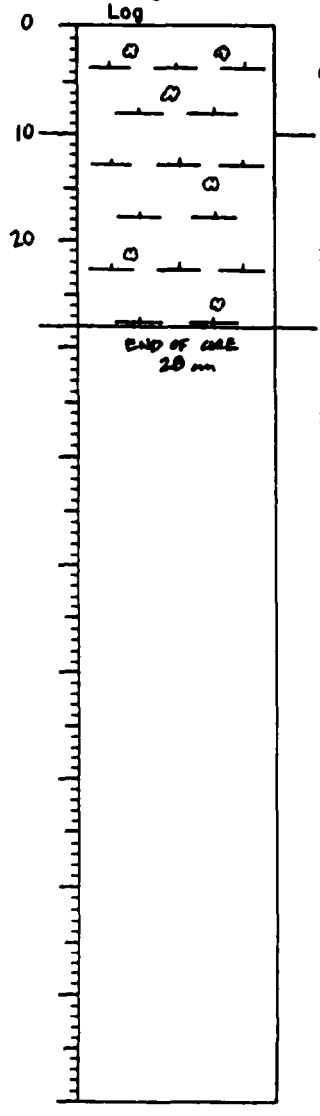
Ship OCE Cruise 205 Leg 2 Sta. 59 Core No 59 BC

Total Length 28 cm. Lat. 26°09.98' N Long. 77°44.45' W Depth 811 m corr.

Core condition EXCELLENT Date Described 6 DEC. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10

CALC OOZE
10 YR 8/2 white with some pale brown
Common 10 YR 7/1 light gray mottles
Silty lutite with abundant forams and very abundant pteropods at core top
Scattered micronodules noted
B, mottled

10-28

CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 7/2 light gray mottles
Silty lutite with common forams and pteropods
Few micronodules?

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 59 BC

Expedition 205 Station No. 59

Leg No. 2 Total Core Length 28 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		1			10	10	49	6	TR	20	4		
9	CALC OOZE		1			10	9	57	4		15	4		
27	CALC OOZE		1			15	9	48	4		20	3		

VISUAL CORE DESCRIPTION

Page 1 of 1

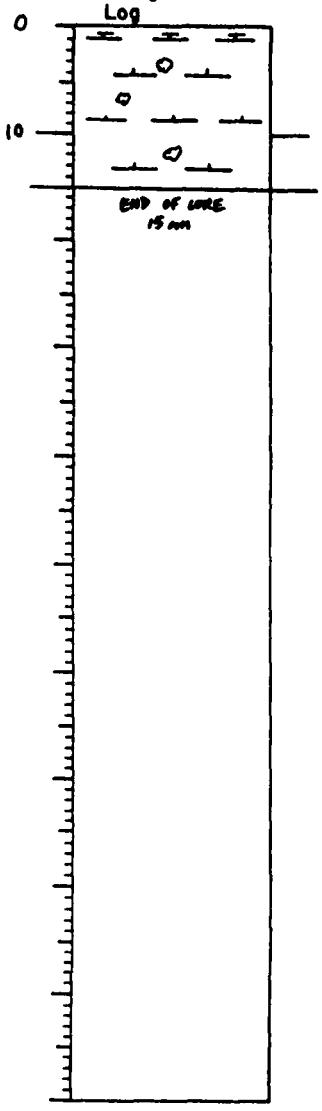
Ship OCE Cruise 205 Leg 2 Sta. 60 Core No 60BC

Total Length 15 cm. Lat. 26°08.92'N Long 77°44.11'W Depth 1312 m corr.

Core condition EXCELLENT Date Described 13 DEC. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10

CALC OOZE
Primarily 10 YR 8/2 white but with some 10 YR 7/2 light gray above 3 cm.
Scattered 10 YR 7/1 light gray mottles
Silty lutite with abundant forams and pteropods becoming common below 4 cm.
0-1 cm. is mostly foram/pteropod sand
G.

10-15

CALC OOZE
10 YR 7/3 very pale brown
Few 10 YR 7/1 light gray sandy mottles
Silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 60 BC

Expedition 205 Station No. 60

Leg No. 2 Total Core Length 15 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		2			9	25	30	15		15	4		
14	CALC OOZE		2			15	15	35	10		20	3		

VISUAL CORE DESCRIPTION

Page 1 of 1

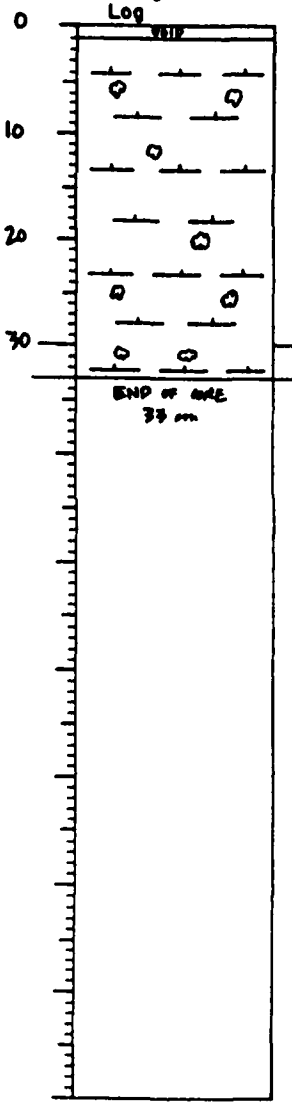
Ship OCE Cruise 205 Leg 2 Sta. 61 Core No 61 BC

Total Length 33 cm. Lat. 26° 07.45' N Long. 77°44.82' W Depth

Core condition EXCELLENT Date Described 13 DEC '84 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-30
CALC OOZE
10 YR 7/1 light gray, 10 YR 7/3 very pale brown and 10 YR 6/3 brown mixed in faint bands 1-2 cm. thick
Scattered to common 10 YR 7/2 light gray mottles
Silty lutite with common to abundant forams and pteropods
0-1 cm, shrinkage void; few 10 YR 7/5 pale brownish yellow features below 25 cm.
$, concave down

30-33
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/2 light gray mottles
Silty lutite with common forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 61 BC

Expedition 205 Station No. 61

Leg No. 2 Total Core Length 33 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	TR	2			12	15	42	10		15	4		
32	CALC OOZE		1			13	10	45	8		20	3		

VISUAL CORE DESCRIPTION

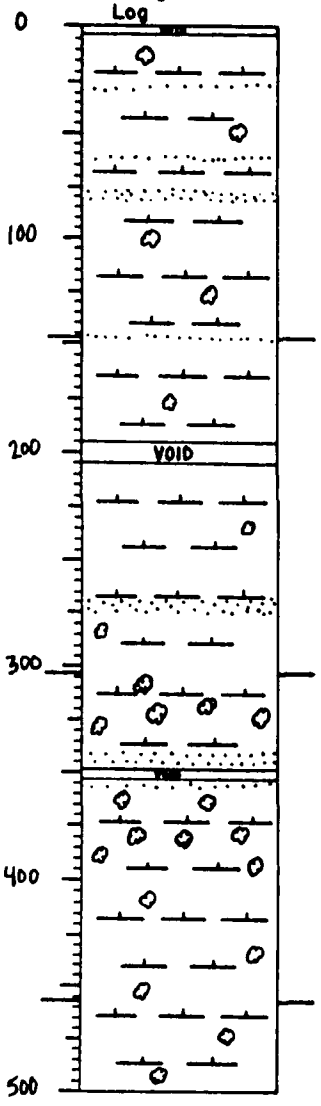
Ship OCE Cruise 205 Leg 2 Sta. 62 Core No 62 PC

Total Length 804 cm. Lat. 26°07.45'N Long. 77°44.81'W Depth 1586 m corr.

Core condition EXCELLENT Date Described 19 FEB. 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-147
CALC OOZE
10 YR 7/3 very pale brown except 10 YR 8/2 white from 9-15 cm. and below 135 cm.
Scattered mottling with intercalation
Moist silty lutite with common forams and pteropods
0-2 cm. shrinkage void; unconsolidated pteropod sand lenses at 28-31 cm., 62-65 cm., 76-82 cm., and 146-147 cm.
S, irregular.

147-303
CALC OOZE
10 YR 8/2 white
Few 10 YR 6/1 gray mottles
Silty lutite with common to abundant forams and pteropods
Common horizontally oriented 10 YR 7/2 light gray features throughout; scattered 5 Y 8/3 pale yellow regions especially 187-189 cm., 238-239 cm.; shrinkage void 195-205 cm; silty pteropod sand from 269-277 cm.
G.

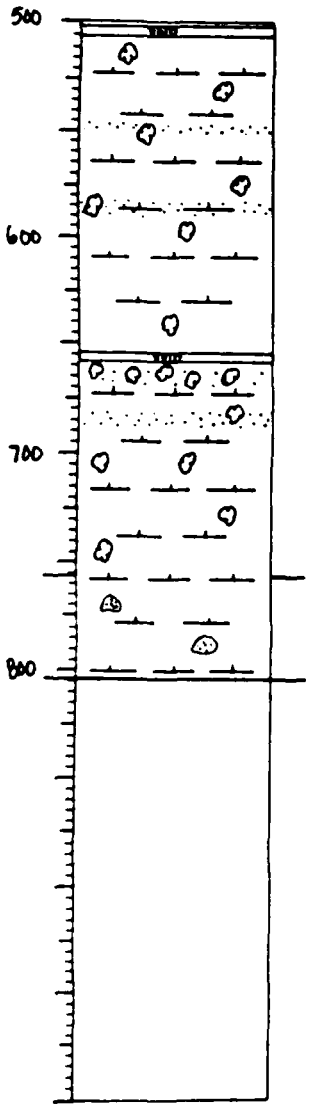
303-457
CALC OOZE
10 YR 8/2 grading to 10 YR 7.5/2 light gray
Extensive 2.5 Y 7/2 light gray mottling above 405 cm; scattered 10 YR 7/1 light gray mottling below 405 cm.
Silty lutite with common forams
Common to abundant black flecks throughout; silty pteropod sand layer from 340-356 cm.; shrinkage void 349-353 cm.
S.

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship OCE Cruise 205 Leg 2 Sta. 62 Core No 62 PC

Lithologic Log



Detailed Description

457-756
CALC OOZE
10 YR 8/2 white but lighter below 500 cm.
Common to extensive 2.5 Y 7/2 light gray mottling throughout
Scattered 2.5 Y 7/2 light gray horizontal features throughout; scattered pteropod sand regions especially 545-550 cm., 581-587 cm., 680-688 cm.; heavily mottled 2.5 Y 6/2 grayish brown region 660-673 cm.

756-804
CALC OOZE
10 YR 8/1 white but slightly gray
Silty lutite with abundant forams and pockets of pteropod/foram sand
Scattered black flecks throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 62 PC

Expedition 205 Station No. 62

Leg No. 2 Total Core Length 804 cm

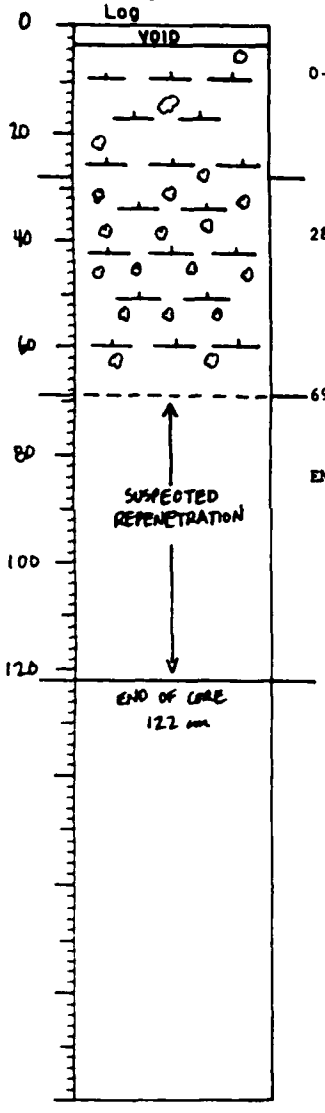
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		2			6	4	56	3		25	4		
10C	CALC OOZE		1			7	15	54	5		15	3		
220	CALC OOZE		1			8	10	35	3		40	3		
360	CALC OOZE		1			5	10	50	6		25	3		
480	CALC OOZE		TR			5	6	70	3		15	1		
600	CALC OOZE		TR			6	7	60	5		20	2		
669	CALC OOZE W/ DETRITUS	15	3			30	3	23	1		25	TR		
740	CALC OOZE		TR			5	3	56	4		30	2		
803	CALC OOZE		1			3	10	63	6		15	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 62 Core No 62 PG
Total Length 122 cm. Lat. 26°02'45" N Long. 77°41.81' W Depth 1586 m corr.
Core condition EXCELLENT Date Described 8 FEB. 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-28
CALC OOZE
10 YR 7/3 very pale brown with many faint horizontally oriented changes
Scattered mottling with intercalation
Slightly silty lutite with scattered forams
0-3 cm. shrinkage void

28-69
CALC OOZE
10 YR 8/2 white
Extensive 10 YR 6/2 light brownish gray mottling throughout
Silty lutite with common forams and scattered pteropods

69-122
Suspected repenetration

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 62 PG
Expedition 205 Station No. 62
Leg No. 2 Total Core Length 122 cm

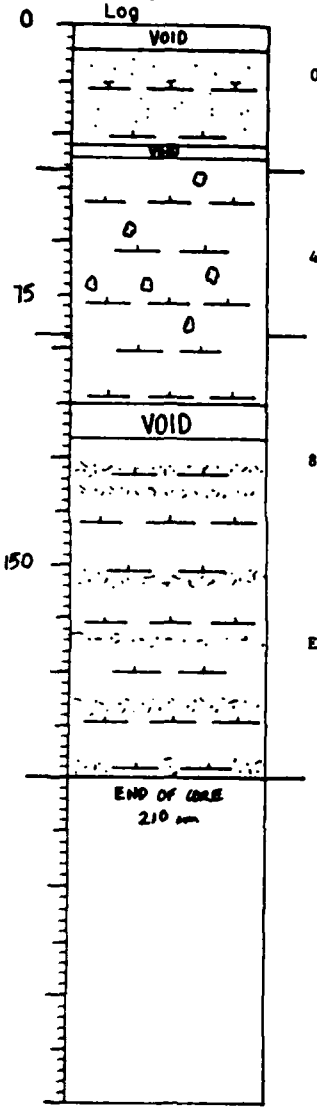
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		3			8	10	42	7		25	5		
50	CALC OOZE		1			9	10	42	5		30	3		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 63 Core No 63 GGC
Total Length 210 cm. Lat. 26°09.59'N Long. 79°43.92'W Depth 1416 m corr.
Core condition EXCELLENT Date Described 21 FEB, 1991 by P. MILLS
Physiographic location BAHAMA BANK

Lithologic Log



Detailed Description

0-40
CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 7/2 light gray mottles
Silty lutite with common forams and pteropods
0-6 cm shrinkage void; 33-37 cm. void (no stratigraphy missing)
C.

40-86
CALC OOZE
10 YR 8/1.5 white
Common 10 YR 5/3 brown, 4/3 dark brown and 6/2 light brownish gray mottles
Silty lutite with common forams becoming abundant below 75 cm.
Thin 10 YR 7/4 very pale brown region at 42 cm.
S.

86-110
CALC OOZE
10 YR 7/4 and 10 YR 8/3 very pale brown
Very silty lutite to foram sand with abundant pteropods
Shrinkage void 105-115 cm.; unit contains several beds of almost exclusively pteropod sand; beds are 4-8 cm. thickness on average.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 63 GGC
Expedition 205 Station No. 63
Leg No. 2 Total Core Length 210 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		2			5	20	34	5		30	4		
60	CALC OOZE		1			5	15	30	8		35	6		
138	CALC OOZE		3			3	10	46	15		20	3		
200	CALC OOZE		2			4	15	47	10		20	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 66 Core No 66 GGC
Total Length 8 cm. Lat. 26° 09.24' N Long. 77°44.91' W Depth 1405 m corr.
Core condition NOT SPLIT Date Described — by —
Physiographic location LITTLE BAHAMA BANK

Lithologic Log

Detailed Description

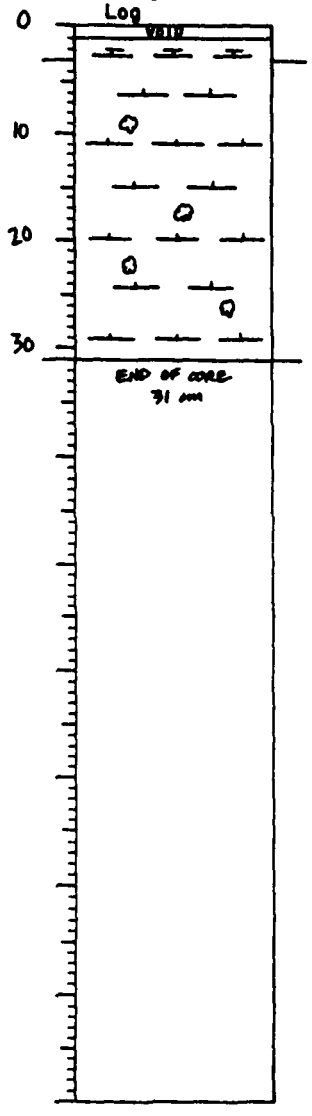
NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 67 Core No 67 BC
Total Length 31 cm. Lat. 26° 09.25' N Long. 77°44.40' W Depth 1392 m corr.
Core condition EXCELLENT Date Described 13 DEC. 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-3
FORAM/PTEROPOD SAND
10 YR 6/2 light brownish gray
Silty lutite/foram-pteropod sand
0-1 cm. shrinkage void
G.

3-31
CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 7/1 light gray and 10 YR 8/2 white mottles
Silty lutite with common to abundant forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 67 BC

Expedition 205 Station No. 67

Leg No. 2 Total Core Length 31 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
20	CALC OOZE		3			20	10	40	7		16	4		

VISUAL CORE DESCRIPTION Page 1 of 1

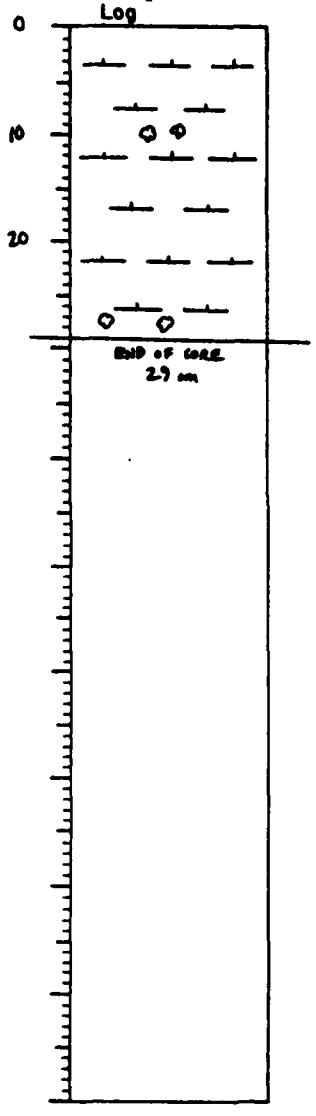
Ship OCE Cruise 205 Leg 2 Sta. 68 Core No 68 BC

Total Length 29 cm. Lat. 26°10.72'N Long. 77°43.36'W Depth 1203 m corr.

Core condition EXCELLENT Date Described 11 DEC. '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-29

CALC OOZE

10 YR 7/3 very pale brown with some light gray above 8 cm.

Few 10 YR 7/1 light gray mottles at 10 cm.; few 10 YR 8/2 white mottles below 25 cm.

Silty lutite with common to abundant forams and pteropods

Pteropods very abundant near core top

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 68 BC

Expedition 205 Station No. 68

Leg No. 2 Total Core Length 29 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		4			7	20	35	10		20	4		
28	CALC OOZE		3			12	5	40	8		30	2		

VISUAL CORE DESCRIPTION

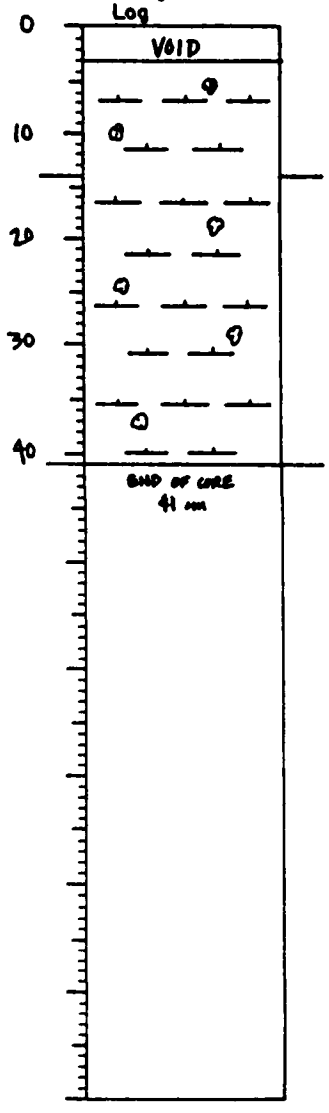
Ship OCE Cruise 205 Leg 2 Sta. 72 Core No 72BC

Total Length 41 cm. Lat. 26°19.49' N Long. 77°42.71' W Depth 908 m corr.

Core condition EXCELLENT Date Described 11 DEC '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-14

CALC OOZE
10 YR 7/3 very pale brown with 10 YR 7/2 light gray and 10 YR 6/3 pale brown bands
Few pteropod filled mottles noted
Silty lutite with common to abundant forams and pteropods
0-3 cm. shrinkage void
S.

14-41

CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/1 light gray mottles
Silty lutite with common to abundant forams and pteropods
Very pale brown 10 YR 7/4 bands above 21 cm. containing some large pteropod tests

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 72 BC

Expedition 205 Station No. 72

Leg No. 2 Total Core Length 41 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			10	10	45	10		20	2		
40	CALC OOZE		1			8	10	52	7		25	2		

VISUAL CORE DESCRIPTION

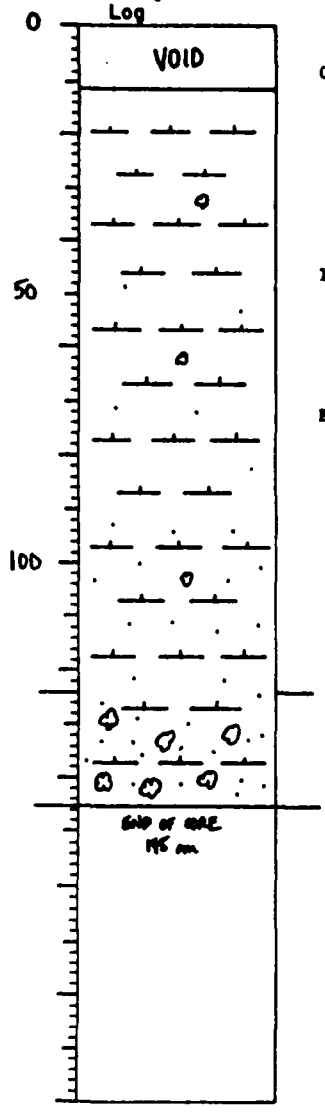
Ship OCE Cruise 205 Leg 2 Sta. 75 Core No 7566C

Total Length 145 cm. Lat. 26°14.0'N Long. 77°39.97'W Depth 595 m corr.

Core condition GOOD Date Described 26 FEB, 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-124
CALC OOZE
10 YR 8/1 white
Few widely scattered 10 YR 8/2 white mottles
Dry silty lutite with common forams
0-11 cm. shrinkage void; unit becomes grittier and shows greater pteropod concentration below 90 cm.
G, mottled.

124-145
CALC OOZE
10 YR 8/2 white
Heavily mixed and mottled with 10 YR 8/1 white
Very silty/sandy lutite with abundant forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 75 GGC

Expedition 205 Station No. 75

Leg No. 2 Total Core Length 145 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12	CALC OOZE		2			7	10	34	3		40	4		
80	CALC OOZE		3			4	5	37	6		40	5		
143	CALC OOZE		2			7	20	53	15			3		

VISUAL CORE DESCRIPTION

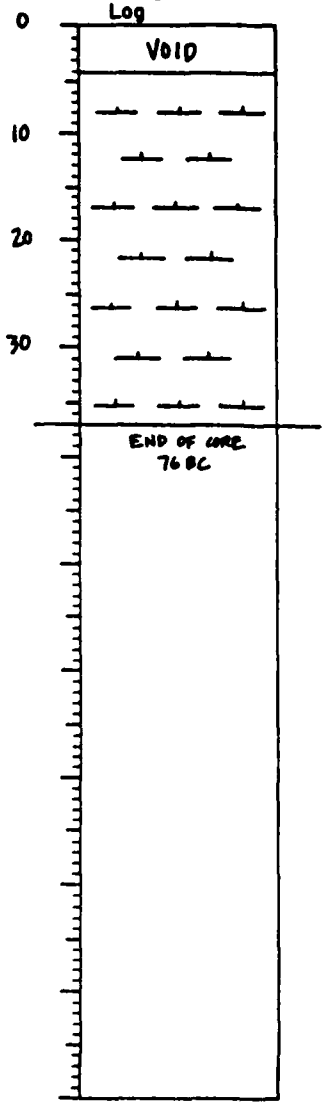
Ship OCE Cruise 205 Leg 2 Sta. 76 Core No 76 BC

Total Length 37 cm. Lat. 26°13.93' N Long. 77°39.89' W Depth 529 m corr.

Core condition EXCELLENT Date Described 11 DEC. '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-37

CALC OOZE
10 YR 8/1 white but faintly 10 YR 7/3 very pale brown above 7 cm.
Silty moist lutite with common to abundant forams and pteropods
0-4 cm. shrinkage void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 76 BC

Expedition 205 Station No. 76

Leg No. 2 Total Core Length 37 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			8	20	25	8		35	2		
36	CALC OOZE		2			9	15	44	8		20	2		

VISUAL CORE DESCRIPTION

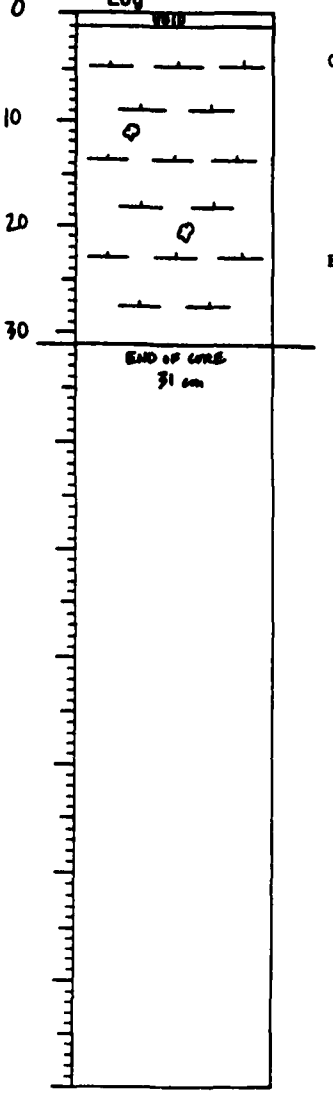
Ship OCE Cruise 205 Leg 2 Sta. 77 Core No 77BC

Total Length 31 cm. Lat. 26°14.60'N Long. 77°39.46'W Depth

Core condition EXCELLENT Date Described 12 DEC '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-31
CALC OOZE
2.5Y 7/2 light gray
Few 2.5Y 6.5/2 light gray mottles
Silty lutite with common to abundant forams and pteropods
0-1 cm. shrinkage void; core is especially silty/fine sandy above 8 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 77 BC

Expedition 205 Station No. 77

Leg No. 2 Total Core Length 31 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			7	15	38	10		25	3		
30	CALC OOZE		1			12	8	52	5		20	2		

VISUAL CORE DESCRIPTION

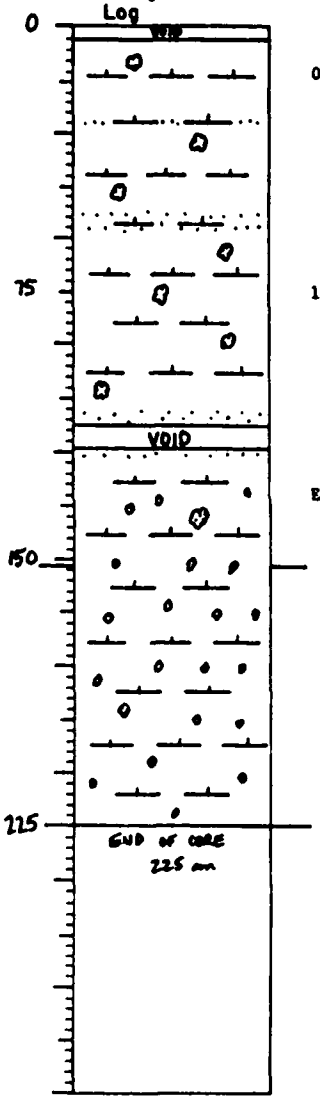
Ship OCE Cruise 205 Leg 2 Sta. 93 Core No 93 GGC

Total Length 225 cm. Lat. 25°56.50'N Long. 77°49.60'W Depth 1284 m corr.

Core condition EXCELLENT Date Described 27 FEB, 1991 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-152

CALC OOZE
10 YR 8/1 white with many color variations toward 10 YR 7/1 light gray and 2.5 Y 7/2 light gray
Very silty lutite with scattered to common forams
Top of core is 10 YR 7/3 very pale brown; unit contains several sandy regions especially from 26-28 cm., 52-59 cm., 108-122 cm.; 0-3 cm. shrinkage void; 112-119 cm. shrinkage void
G.

152-255

CALC OOZE
10 YR 8/1 white becoming 10 YR 7/2 light gray below 210 cm.
Common to extensive small 10 YR 6.5/3 gray and 10 YR 6/4 light yellowish brown mottles
Silty lutite with scattered forams and pteropods and some sand below 210 cm.
Few sandy pteropod filled mottles

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 93 GGC

Expedition 205 Station No. 93

Leg No. 2 Total Core Length 225 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			6	7	26	10		40	8		
70	CALC OOZE		1			5	9	29	8	TR	45	3		
180	CALC OOZE		1			2	4	40	5		40	8		
224	CALC OOZE	TR	2			5	7	50	7		20	9		

VISUAL CORE DESCRIPTION

Page 1 of 2

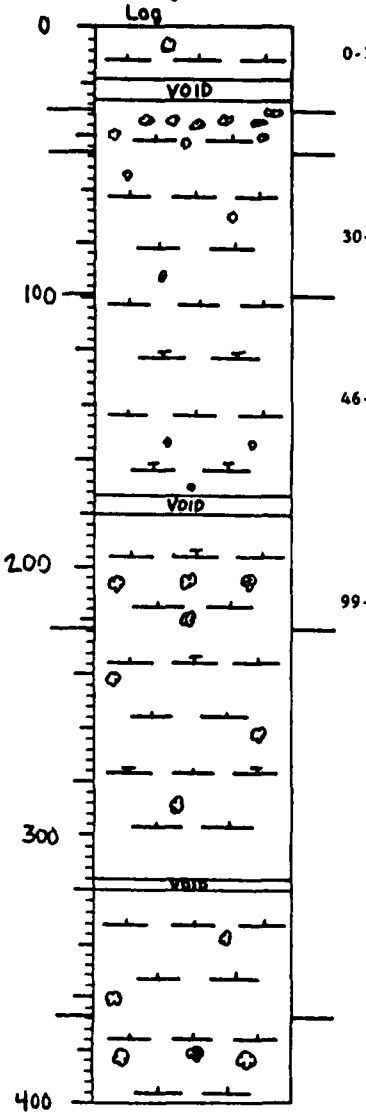
Ship OCE Cruise 205 Leg 2 Sta. 94 Core No 94 JPC

Total Length 616 cm. Lat. 25°56.56'N Long. 77°49.56'W Depth 1249 m corr.

Core condition EXCELLENT Date Described 14 NOV, 91 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-30
CALC OOZE
10 YR 7.5/1 light gray
Scattered 10 YR 7/2 light gray and 10 YR 8/1 white mottles
Silty lutite with common forams
Shrinkage void 18-26 cm.
G.

30-46
CALC OOZE
10 YR 8/2 white
Extensive 10 YR 4/3 dark brown mottling
Smooth lutite with scattered forams
Black flecks scattered throughout
S.

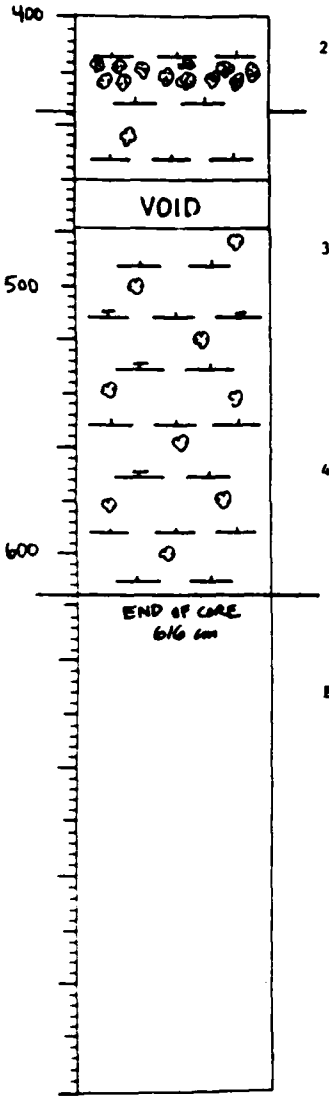
46-99
CALC OOZE
10 YR 8/3 very pale brown becoming 10 YR 8/2 white below 70 cm. with mixing noted below 68 cm.
Scattered small black mottles
Silty lutite with sandy regions containing abundant forams
G.

99-223
CALC OOZE
Mainly 10 YR 8/2 white
Scattered black flecks below 155 cm.; common 2.5 Y 6/2 light brownish gray mottles, some sandy below 200 cm.
Very sandy lutite with abundant forams
Unit contains many sandy horizons some showing 2.5Y 8/3 pale yellow foram sands; shrinkage void 173-181 cm.
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 94 Core No. 94JPC

Lithologic Log



Detailed Description

223-367
CALC OOZE/FORAM SANDS
10 YR 7.5/2 light gray
Scattered 2.5Y 7/2 light gray mottles
Very sandy lutite with foram sand layers
Several large 2.5Y 8/2.5 pale yellow sandy layers rich in forams mostly above 300 cm.; shrinkage void 316-322 cm.
G.

367-435
CALC OOZE/FORAM SANDS
10 YR 8/1 white
Common large 2.5Y 6.5/2 light brownish gray mottles above 415 cm.
Smooth lutite with common forams
Few sandy mottles with forams and pteropods above 395 cm.; heavily concentrated sandy mottles from 414-429 cm.
G.

435-614
CALC OOZE/FORAM SANDS
Predominantly 10 YR 8/1.5 white
Common 2.5 Y 6.5/2 light gray mottles throughout
Silty to sandy lutite with common to abundant forams
Unit contains many large amorphous 2.5Y 8/3 pale yellow sandy regions especially between 510-530 and 560-585 cm.; shrinkage void 460-479 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 94 JPC

Expedition 205 Station No. 94

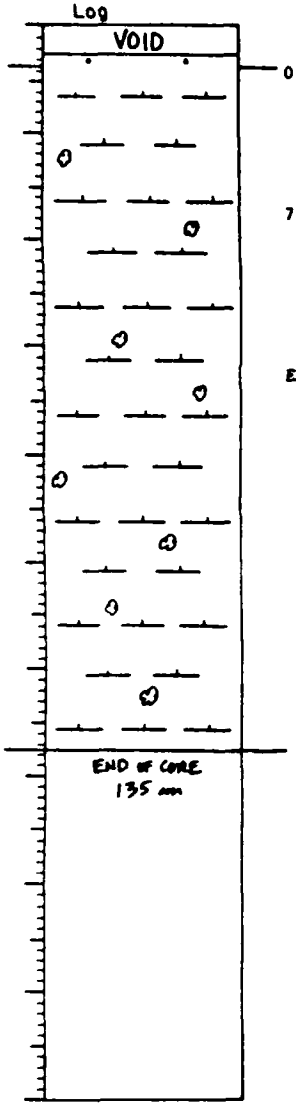
Leg No. 2 Total Core Length 616 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		1			15	8	51	3		20	2		
35	CALC OOZE	TR	2			20	10	38	7		20	3		
75	CALC OOZE		1			20	8	55	4	TR	10	2		
170	CALC OOZE		1			20	15	38	9		15	2		
260	CALC OOZE		1			20	15	35	7		20	2		
400	CALC OOZE		TR			20	10	39	5		25	1		
513	FORAM SAND					2	70	10	2		16			
600	CALC OOZE		TR			15	40	25	4		15	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 94 Core No. 94 PG
Total Length 135 cm. Lat. 25°05.56'N Long. 77°49.56'W Depth 1249 m corr.
Core condition EXCELLENT Date Described 14 NOV. '91 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-7
CALC OOZE
10 YR 7/3 very pale brown
Slightly silty lutite
0-5 cm. shrinkage void; part of unit tinged with 10 YR 7/6 yellow
S.

7-135
CALC OOZE
10 YR 8/1 white and 10 YR 7/2 light grey
Common mottling and mixing of main colors
Smooth and silty lutite varying with color
Few bands tinged with 5 Y 7/3 pale yellow at 81, 96-98 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 94 PG
Expedition 205 Station No. 94
Leg No. 2 Total Core Length 135 cm

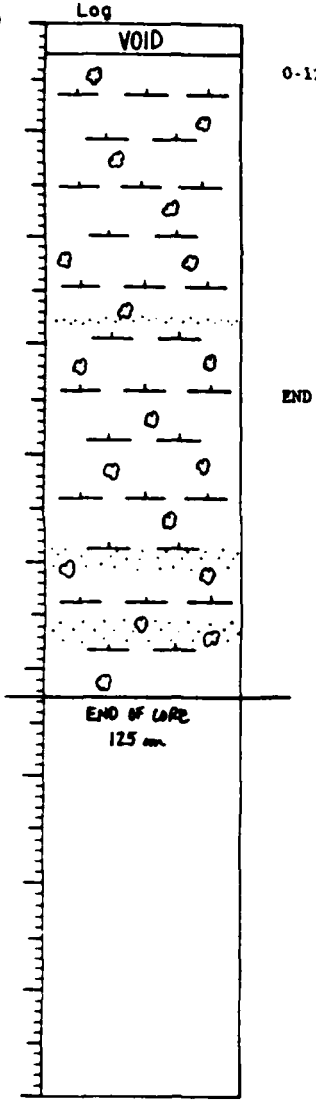
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		4			7	15	40	5		25	4		
65	CALC OOZE	1	TR			14	6	50	8		20	2		
134	CALC OOZE		1			10	7	50	5		25	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 96 Core No 96 GGC
Total Length 125 cm. Lat. 25°55.96'N Long. 77°50.68' W Depth 1172 m corr.
Core condition EXCELLENT Date Described 1992, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-125

CALC OOZE
2.5 Y 7/2 light gray and 10 YR 8/2 white with many slight color variations
Common to extensive mottling of main colors and additional 10 YR 6/3 brown mottling from 75-90 cm.
Very silty lutite with several sandy horizons
0-5 cm. shrinkage void; 5-8 cm. is 10 YR 6/4 light yellowish brown; unit contains many sandy regions but especially notable are 55-56 cm., 97-101 cm., 110-115 cm.; few 10 YR 5/3 brown mottles at 120 cm.; scattered black flecks throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

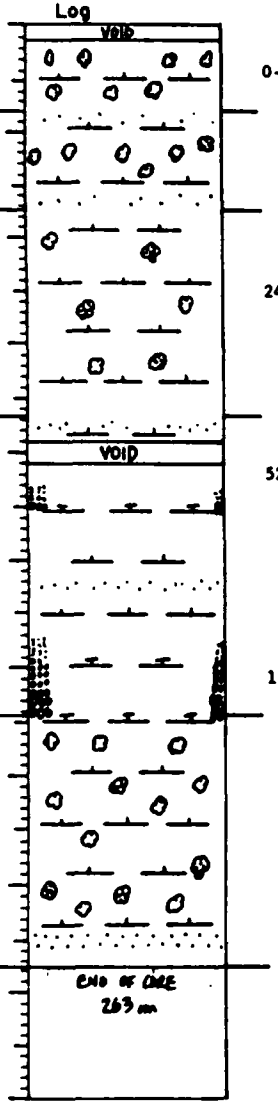
Ship: OCE Core No. 96 GGC
Expedition 205 Station No. 96
Leg No. 2 Total Core Length 125 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		2			10	10	47	7		20	4		
70	CALC OOZE		TR			8	7	40	6		35	4		
124	CALC OOZE		1			8	10	41	12		25	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 97 Core No. 97 JPC
Total Length 263 cm. Lat. 25°56.21'N Long. 77°51.22'W Depth 1183 m corr.
Core condition EXCELLENT Date Described 1 MAR 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-24
CALC OOZE
2.5 Y 7/2 light gray
Extensively mottled and mixed with 2.5 Y 8/2 and 6/2 white and light gray
Very silty/fine sandy lutite with common to abundant forams
0-4 cm. shrinkage void; unit exhibits wavy layering structures
G, mottled.

24-52
CALC OOZE
10 YR 8/1 white but slightly gray
Extensive 10 YR 4/3 brown and 10 YR 4/1 dark gray mottling throughout
Silty compact lutite with scattered forams;
Some sandy regions near top and bottom contacts
G.

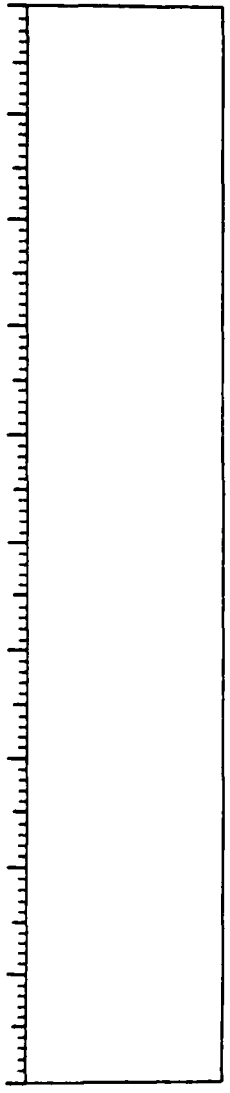
52-110
CALC OOZE
10 YR 8/3 very pale brown grading to 10 YR 8/2 white below 80 cm.
Widely scattered mottling of major colors; few dark gray flecks below 100 cm.
Very silty lutite with abundant forams
Many sandy mottles and wavy regions noted
G.

110-193
CALC OOZE
10 YR 8/2 white
Sandy lutite; primarily forams and pteropod fragments
Unit is characterized by several graded sand turbidites especially 130-135 cm. and 172-193 cm.
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 97 Core No 97 JPC

Lithologic Log



Detailed Description

193-263
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 4/2 dark grayish brown mottles and flecks above 233 cm.
Silty/fine sandy lutite with common forams
Common mottles or pockets of foram/pteropod rich sand appearing with increasing frequency below 235 cm.; 253-258 cm. is washed fine sand.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 97 JPC

Expedition 205 Station No. 97

Leg No. 2 Total Core Length 263 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		TR			10	7	45	10		25	3		
40	CALC OOZE		1			10	6	34	12		30	7		
80	CALC OOZE		2			7	7	50	10		20	4		
150	CALC OOZE		1			8	8	50	10		20	3		
220	CALC OOZE		3			8	7	33	15		30	4		
263	CALC OOZE		TR			9	20	30	10		30	1		

VISUAL CORE DESCRIPTION

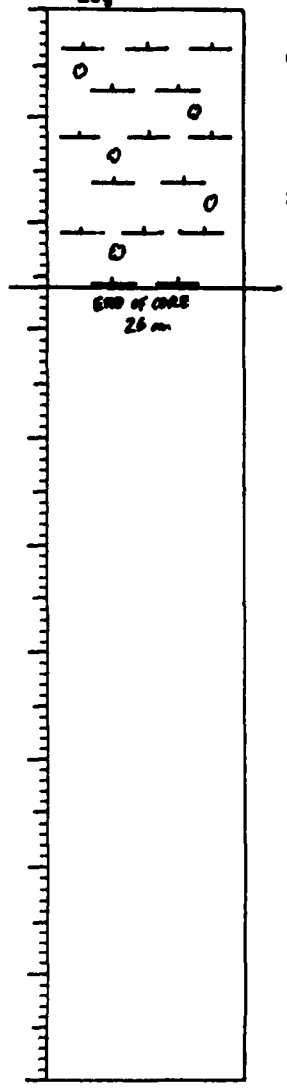
Ship OCE Cruise 205 Leg 2 Sta. 97 Core No 97 PG

Total Length 26 cm. Lat. 25°66.21'N Long. 77°51.22'W Depth 1183 m corr.

Core condition EXCELLENT Date Described 27 FEB 1991 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-26

CALC OOZE
10 YR 7/4 very pale brown turning to 2.5 Y 7/2 light gray
Common 2.5 Y 6.5/2 light brownish gray mottles
Very silty/fine sandy lutite with scattered forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 97 PG

Expedition 205 Station No. 97

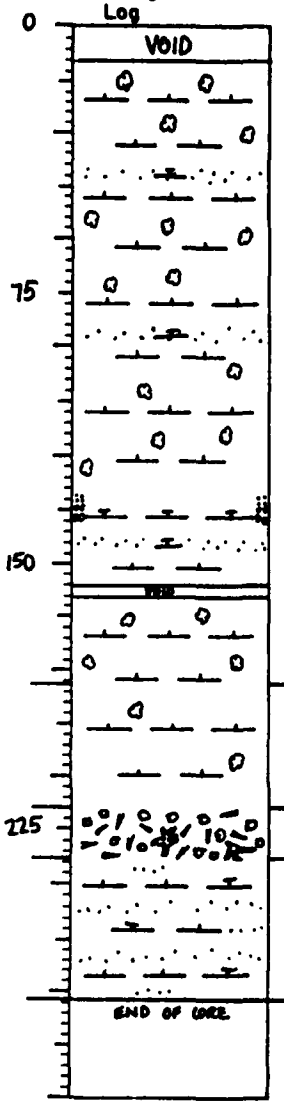
Leg No. 2 Total Core Length 26 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		3			8	15	35	10		19	10		
25	CALC OOZE		2			5	20	30	15		24	4		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 98 Core No 98 GGC
Total Length 272 cm. Lat. 25°58.48'N Long. 78°01.26'W Depth 879 m corr
Core condition EXCELLENT Date Described 4 MAR, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-184
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 7/1 light gray mottling throughout
Dry silty lutite with scattered sandy regions
0-9 cm. shrinkage void; 9-11 cm. is 10 YR 6/4 light yellowish brown; unit contains several sandy horizons but most notable are 130-137 cm. and 142-145 cm. which are washed, graded sand layers with abundant forams and pteropods; black flecks are common throughout unit.
G.

184-219
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/1 light gray mottles
Moist silty lutite with abundant pteropods and forams
S.

219-233
PTEROPOD/CORAL HASH
10 YR 8/2 white
Coral, pteropod and foram sand hash
S.

233-272
CALC OOZE
10 YR 8/2 white
Alternating very silty/sandy lutite and foram/pteropod hash layers of varying thickness
233-238 cm. is primarily pteropod sand, remainder of unit is mixed

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 98 GGC

Expedition 205 Station No. 98

Leg No. 2 Total Core Length 272 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
14	CALC OOZE		1			10	8	45	7		25	4		
110	CALC OOZE		2			6	7	40	8		30	7		
200	CALC OOZE		1			5	17	58	13			6		
271	CALC OOZE		2			5	9	48	20		10	6		

VISUAL CORE DESCRIPTION

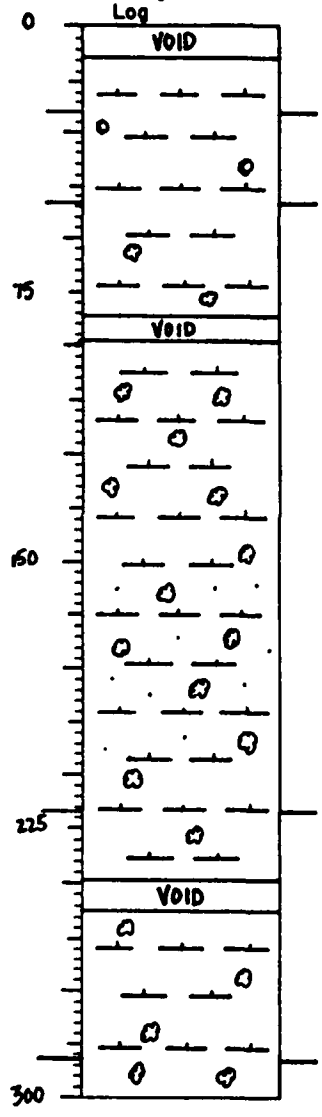
Ship OCE Cruise 205 Leg 2 Sta. 99 Core No 99 JPC

Total Length 273 cm. Lat. 25°6B.97'N Long. 78°01.16'W Depth 912 m corr.

Core condition EXCELLENT Date Described 25MAR,1991 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-24
CALC OOZE
10 YR 8/1.5 white
Graded foram/pteropod sand
0-8 cm. shrinkage void
S.

24-48
CALC OOZE
10 YR 7.5/1 light gray
Few 10 YR 7/1 light gray and 10 YR 8/3 very pale brown mottles
Very silty lutite with common forams and scattered pteropods
Amorphous 10 YR 5/3 brown and 10 YR 7/4 very pale brown region above 32 cm.
S.

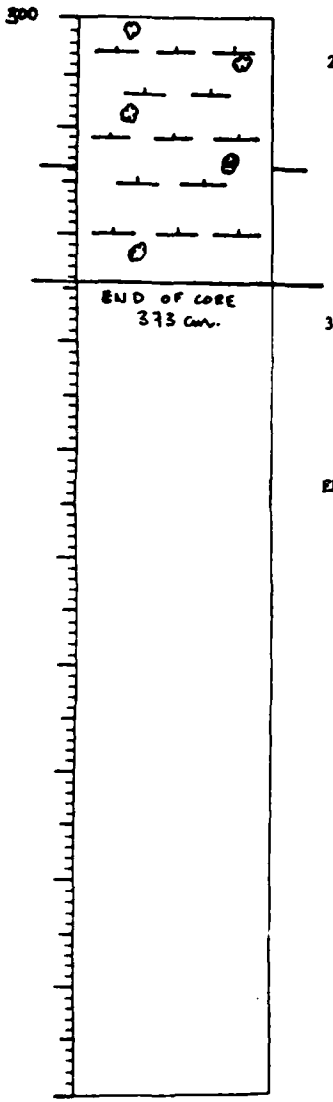
48-220
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/2 light gray mottling becoming abundant below 100 cm. and mixing with 2.5 Y 7/2 light gray
Silty lutite with common to abundant forams
82-89 cm. shrinkage void; common black flecks (micronodules?) noted throughout; region from 160-205 cm. is very silty
Very G.

220-289
CALC OOZE
2.5 Y 7/2 light gray
Common 2.5 Y 6/2 light brownish gray and 10 YR 8/1 white mottles
Very silty lutite with common forams and few pteropods; 239-247 cm. shrinkage void
S, irregular.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 99 Core No. 99 JPC

Lithologic Log



Detailed Description

289-341
CALC OOZE
10 YR 8/1 white
Abundant large 10 YR 7/2 light gray mottles above 315 cm. becoming scattered and smaller below 315 cm.
Smooth moist lutite with sandy mottles increasing below 330 cm.
Large black flecks grade from common to abundant throughout; small 2.5 Y 6/4 light yellowish brown feature at 215 cm.
G.

341-373
CALC OOZE
10 YR 8/2 and 10 YR 8/1 white
Scattered 10 YR 7/1 and 7/2 light gray mottles
Very silty lutite with abundant forams
Scattered black flecks noted

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 99 JPC

Expedition 205 Station No. 99

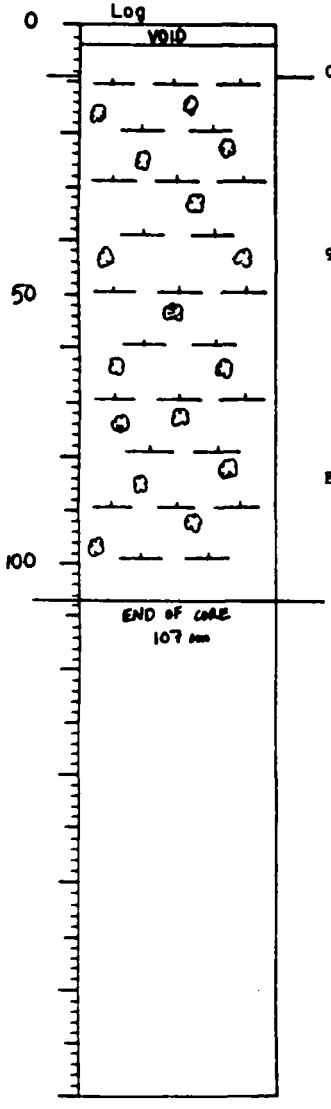
Leg No. 2 Total Core Length 373 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE		1			12	20	50	10		5	2		
35	CALC OOZE		1			8	25	35	8	TR	20	3		
120	CALC OOZE		1			15	15	38	15	TR	15	1		
250	CALC OOZE		1			7	20	30	15	TR	25	2		
320	CALC OOZE		3			3	7	15	3	TR	66	3		
370	CALC OOZE		1			25	15	36	7	TR	15	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 99 Core No. 99 PG
Total Length 107 cm. Lat. 25°58.93'N Long. 78°01.16'W Depth 912 m corr.
Core condition EXCELLENT Date Described 25 MAR 1981 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-9
CALC OOZE
10 YR 7/2 light gray grading to 10 YR 5/3 brown below 7 cm.
Silty lutite with common forams and pteropods
0-3 cm. shrinkage void; common black flecks throughout
S.

9-107
CALC OOZE
10 YR 8/1 white and 10 YR 7/1 light gray
Extensive mottling and mixing of main colors throughout
Silty lutite with scattered to common forams
Scattered sandy mottles from 52-62 cm.; top of unit is tinged with 10 YR 7/5 pale brownish yellow.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

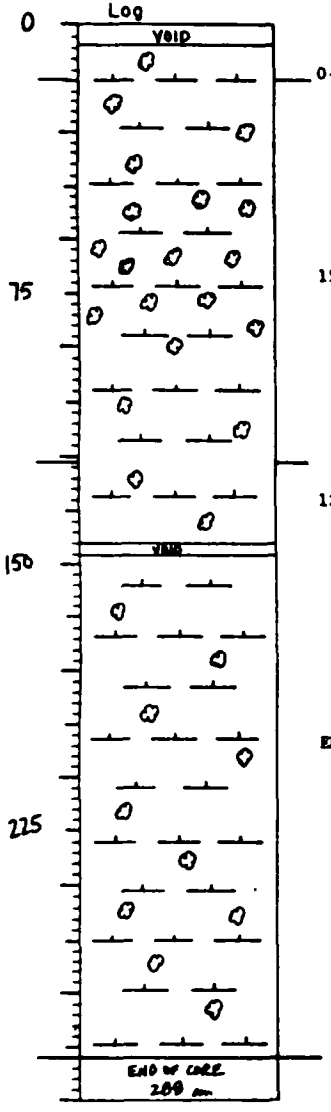
Ship: OCE Core No. 99 PG
Expedition 205 Station No. 99
Leg No. 2 Total Core Length 107 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		4			9	7	45	10		20	5		
50	CALC OOZE		1			7	10	49	5		25	3		
106	CALC OOZE		1			5	15	42	10		25	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 100 Core No 100 GGC
Total Length 288 cm. Lat. 26°05.67'N Long. 78°01.66'W Depth 1057 m corr.
Core condition EXCELLENT Date Described 5 MAR. 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-15
CALC OOZE
10 YR 7/2 light gray with varying shades of gray and brown
Scattered mottling and mixing of colors
Silty lutite with common forams
0-5 cm. shrinkage void; color changes are horizontally oriented
S.

15-121
CALC OOZE
10 YR 8/1 white
Common 10 YR 6/3 pale brown and 10 YR 7/1 light gray mottling becoming very extensive from 36-95 cm.
Silty lutite with common forams; some pteropods noted 110-115 cm.
Color gradation into next unit begins at 100 cm.
G.

121-288
CALC OOZE
10 YR 7.5/3 very pale brown alternating periodically with 10 YR 8/2 white
Scattered mottling and mixing of main colors; scattered 10 YR 7/2 light gray horizontal features
Silty lutite with common forams and scattered regions of increased pteropod concentration
Few widely scattered black flecks noted.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

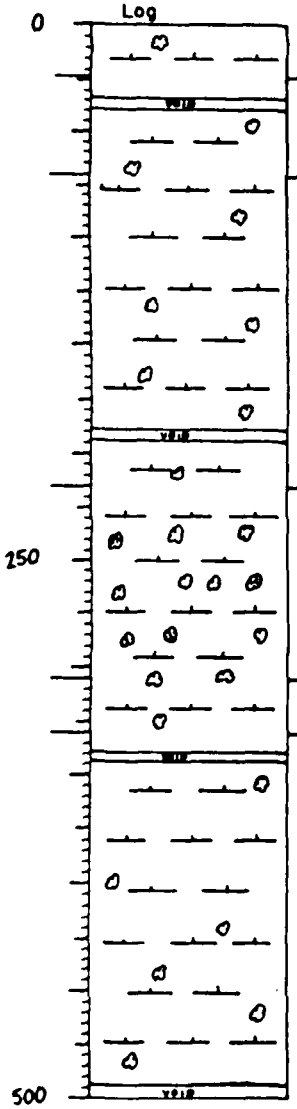
Ship: OCE Core No. 100 GGC
Expedition 205 Station No. 100
Leg No. 2 Total Core Length 288 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		3			7	8	42	7		30	3		
70	CALC OOZE		1			8	10	47	10		20	4		
150	CALC OOZE		3			8	7	56	5		15	6		
287	CALC OOZE		2			5	15	48	10		15	5		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 101 Core No 101 JPC
Total Length 636 cm. Lat. 26°09.82'N Long. 78°01.39'W Depth 1076 m corr.
Core condition EXCELLENT Date Described 9MAY, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-23
CALC OOZE
10 YR 8/1.5 white
Scattered to common 10 YR 6/1 gray mottles
Moist silty lutite with common forams
S.

23-70
CALC OOZE
10 YR 8/3 very pale brown with some 10 YR 8/2 white mixing
Scattered 10 YR 6/2 light brownish gray mottles
Silty lutite with abundant forams
33-38 cm. shrinkage void
G.

70-215
CALC OOZE
10 YR 8/2 white
Scattered to common 10 YR 7/2 light gray mottles some showing horizontal orientation
Silty lutite with abundant forams
Few regions tinged with 5Y 8/3 pale yellow; few widely scattered black flecks; 188-193 cm. shrinkage void
G.

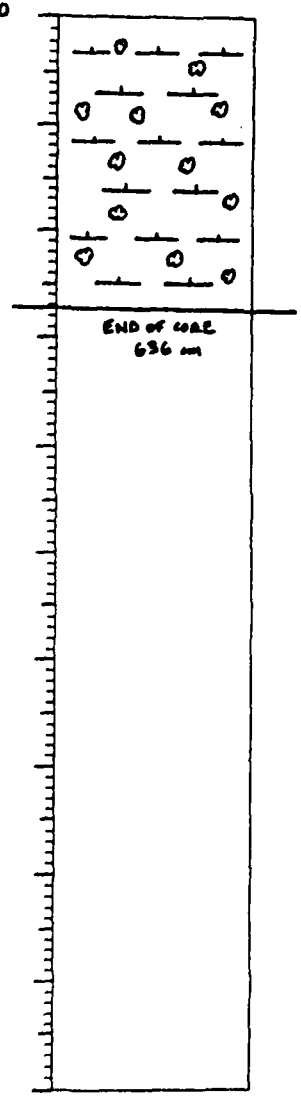
215-305
CALC OOZE
2.5Y 7.5/2 light gray
Extensive 2.5Y 7/2 and 6/2 light gray and light brownish gray mottles/burrows, some containing increased concentrations of forams and pteropods
Silty lutite with common to abundant forams
Scattered black flecks becoming common, then abundant below 280 cm.
G.

305-330
CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/2 light gray mottles
Smooth lutite with common forams and pteropods
Abundant black flecks throughout
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 101 Core No 101 JPC

Lithologic Log



Detailed Description

330-636
CALC OOZE
10 YR 8/1 white
Few 10 YR 7/2 light grey mottles becoming common to abundant below 510 cm with some showing horizontal orientation
Slightly silty lutite with common forams and pteropods
Scattered pteropod filled mottles above 375 cm ; scattered black flecks throughout; two 5Y 3/1 very dark gray mottles at 450 cm.; few regions tinged with 5Y 8/3 pale yellow noted below 465 cm.; 339-343 cm. and 494-501 cm. shrinkage voids.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 101 IPC

Expedition 205 Station No. 101

Leg No. 2 Total Core Length 636 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		1			5	15	52	5		20	7		
50	CALC OOZE		1			2	10	65	2		15	5		
150	CALC OOZE		1			15	15	35	10		20	4		
250	CALC OOZE		1			10	15	41	8		20	5		
320	CALC OOZE		1			6	10	45	5		30	3		
420	CALC OOZE		3			10	10	43	3		25	6		
520	CALC OOZE		TR			15	12	45	6		20	2		
635	CALC OOZE		1			10	15	42	5		25	2		

VISUAL CORE DESCRIPTION

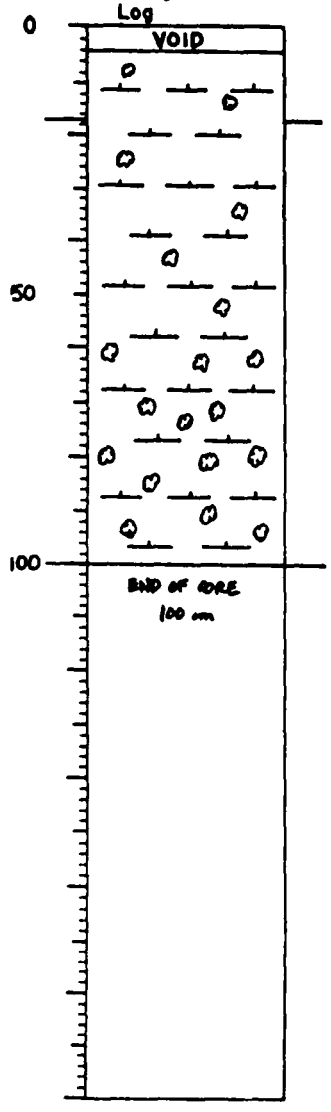
Ship OCE Cruise 205 Leg 2 Sta. 101 Core No 101 PG

Total Length 100 cm. Lat. 25°03.82'N Long. 78°01.38'W Depth 1076 m corr.

Core condition EXCELLENT Date Described MAR. 1991 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-17

CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Scattered 10 YR 7/1 light gray mottles
Silty lutite with common forams and scattered pteropods
0-4 cm. shrinkage void
S, I, 5°

17-100

CALC OOZE
10 YR 8/1 white
Common 10 YR 7/1 light gray mottles becoming extensive below 60 cm.; few 10 YR 6/4 light yellowish brown mottles scattered throughout
Silty lutite with common to abundant forams and pteropod fragments

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 101 PG

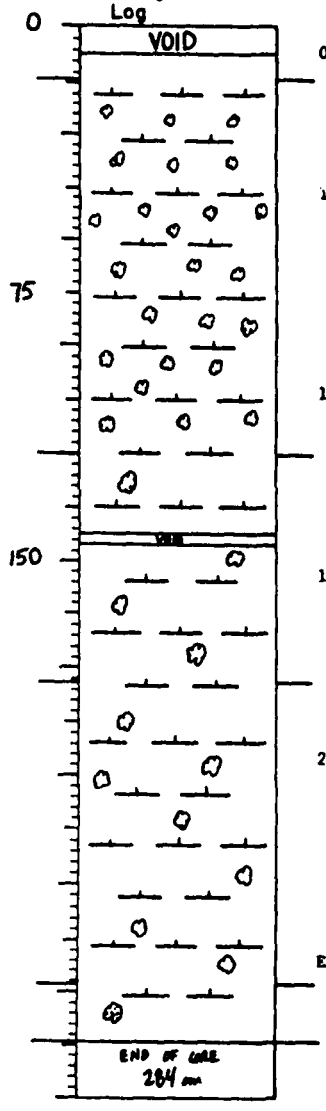
Expedition 205 Station No. 101

Leg No. 2 Total Core Length 100 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		4			5	10	45	6		25	5		
60	CALC OOZE		TR			6	7	60	4		20	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 103 Core No 103 GGC
Total Length 284 cm. Lat. 26°04.22'N Long. 78°03.37'W Depth 965 m corr.
Core condition EXCELLENT Date Described 7 MAR, 1971 by P. MILLS
Physiographic location GREAT BAHAMA BANK
Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 8/2 white and 2.5 Y 6/2 light brownish gray
Silty lutite with common forams
0-7 cm. shrinkage void.
G, I 10°

14-120
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 7/3 very pale brown mottling with 10 YR 4/1 dark gray below 90 cm.; also scattered 10 YR 7/2 light gray mottles below 95 cm.
Silty lutite with scattered forams becoming abundant below 100 cm.
G.

120-184
CALC OOZE
10 YR 8/3 very pale brown
Scattered 10 YR 7/1 light gray and 10 YR 7/3 very pale brown mottles
Silty lutite with common to abundant forams
Color transition from upper unit begins at 100 cm.
G.

184-268
CALC OOZE
10 YR 8/2 white
Common 10 YR 7.5/3 very pale brown mottles/burrows
Silty lutite with abundant forams
Scattered foram concentrations throughout
G, mottled.

268-284
CALC OOZE
10 YR 7/2 light gray
Few 10 YR 8/2 white mottles containing abundant forams
Silty lutite with scattered forams
Few 10 YR 7/1 light gray burrows showing wavy horizontally oriented structure

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 103 GGC

Expedition 205 Station No. 103

Leg No. 2 Total Core Length 284 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		3			8	10	43	7		25	4		
65	CALC OOZE		1			5	8	43	5		35	3		
155	CALC OOZE		2			5	10	58	4		15	6		
240	CALC OOZE		1			7	8	62	4		15	3		
283	CALC OOZE		2			10	8	54	7		15	4		

VISUAL CORE DESCRIPTION

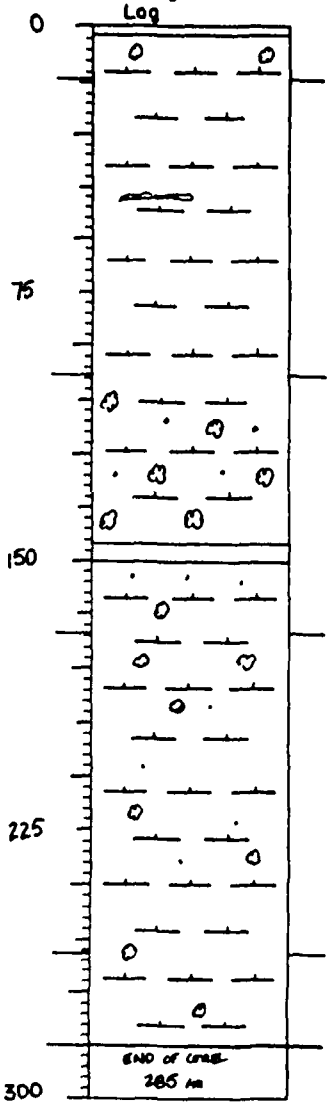
Ship OCE Cruise 205 Leg 2 Sta. 104 Core No 104 JPC

Total Length 285 cm. Lat. 26°04.55'N Long. 78°03.66'W Depth 976 m corr

Core condition EXCELLENT Date Described 14MAY1991 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 8/1 white grading to 10 YR 8/3 very pale brown
Scattered 10 YR 7/1 light gray mottling
Silty lutite with common forams and some visible pteropods
0-2 cm. shrinkage void
S, irregular

14-98
CALC OOZE
Very white
10 YR 7/1 light gray burrow showing horizontal orientation at 48 cm.
Slightly silty lutite with common forams
Few faint bands tinged with 5Y 8/3 pale yellow below 77 cm.; scattered 10 YR 6/6 light red flecks above 25 cm.
G.

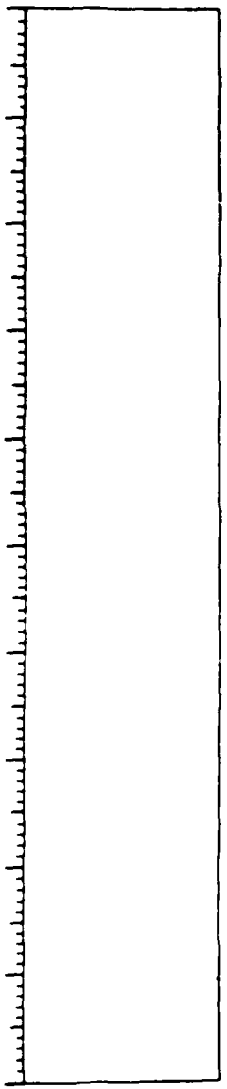
98-170
CALC OOZE
10 YR 8/1 white and very white as above
Common 10 YR 7/1 light gray mottles becoming few below 140 cm.
Slightly silty lutite with common forams
Abundant black flecks throughout unit; large sandy mottle at 169 cm.; shrinkage void 145-150 cm.
G.

170-259
CALC OOZE
10 YR 8/1 white
Common very white mottles above 195 cm.; scattered mottles showing faint color variations elsewhere
Slightly silty lutite with common forams
Scattered black flecks throughout
S, textural

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 104 Core No. 104 JPC

Lithologic Log



Detailed Description

259-285
CALC OOZE
Very white
Few 10 YR 7/1 light gray mottles
Very silty and partially cemented with abundant forams
Unit is most lithified near upper contact

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 104 JPC

Expedition 205 Station No. 104

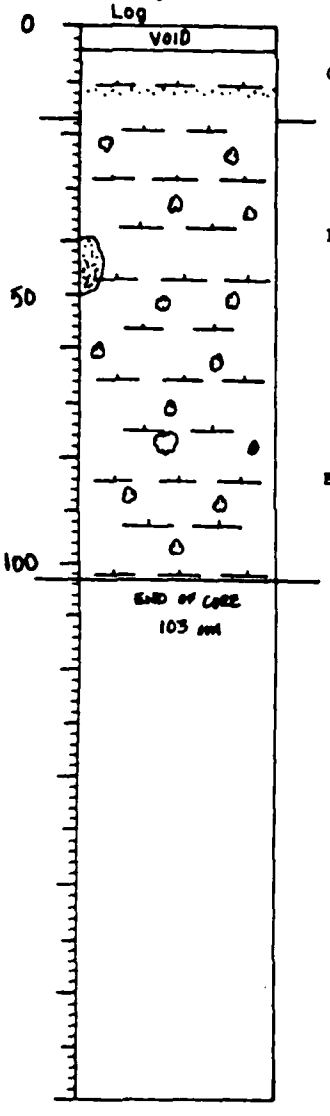
Leg No. 2 Total Core Length 285 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		2			8	10	37	7	TR	30	6		
60	CALC OOZE		TR			8	5	65	5		15	2		
130	CALC OOZE		6			6	8	53	4		20	3		
210	CALC OOZE		1			13	10	60	5		10	1		
284	CALC OOZE		TR			10	15	59	1		15			

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 104 Core No. 104 PG
Total Length 103 cm. Lat. 26°04.33' N Long. 78°03.66' W Depth 916 m corr.
Core condition EXCELLENT Date Described MAY, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 7/3 very pale brown
Silty moist lutite with abundant forams and pteropods
0-4 cm. shrinkage void; 11-12 cm. pteropod sand s.

17-103
CALC OOZE
10 YR 8/2 white except 10 YR 8/3 very pale brown from 85-100 cm.
Common to abundant 10 YR 7/1 light gray mottles throughout
Silty lutite with abundant forams
40-50 cm. contains a pteropod sand filled region along one edge of the liner; large 10 YR 7/1 light gray mottle noted at 78 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

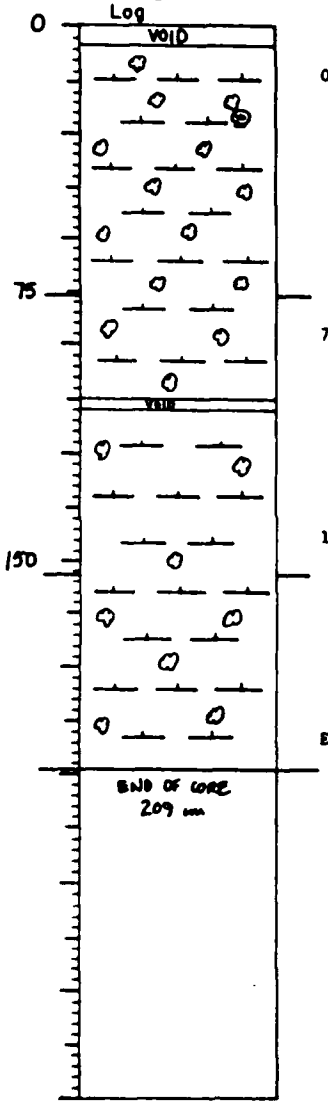
Ship: OCE Core No. 104 PG
Expedition 205 Station No. 104
Leg No. 2 Total Core Length 103 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			5	15	40	8		25	4		
70	CALC OOZE		TR			7	10	45	5		30	3		
102	CALC OOZE		1			8	8	40	4		35	4		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 106 Core No 106 GGC
Total Length 209 cm. Lat. 25°38.60'N Long. 78°10.06'W Depth 654 m corr.
Core condition EXCELLENT Date Described 12 MAR, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-76
CALC OOZE
10 YR 8/2 white and 10 YR 7/2 light gray
Extensive mottling and mixing of main colors; scattered 10 YR 7/1 light gray mottles
Silty lutite with common forams
0-5 cm. shrinkage void; 5-7 cm. is 10 YR 6/4 light yellowish brown; unit contains several 10 YR 8/4 very pale brown features most notably at 7-9 cm. 29 cm., and 51 cm.; large bivalve shell noted at 24 cm.
G.

76-154
CALC OOZE
10 YR 7/2.5 very pale brown
Common 10 YR 7.5/1 light gray mottles becoming few below 125 cm.
Silty lutite with abundant forams
Shrinkage void 105-108 cm.; few pteropods and or shell fragments visible throughout
G, mottled.

154-209
CALC OOZE
10 YR 8/2 white
Common 10 YR 7/2 light gray mottles
Very silty lutite with abundant forams and some pteropod fragments
Core is very dry and compacted below 190 cm. and shows greater silt/sand content

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 106 GGC
Expedition 205 Station No. 106
Leg No. 2 Total Core Length 209 cm

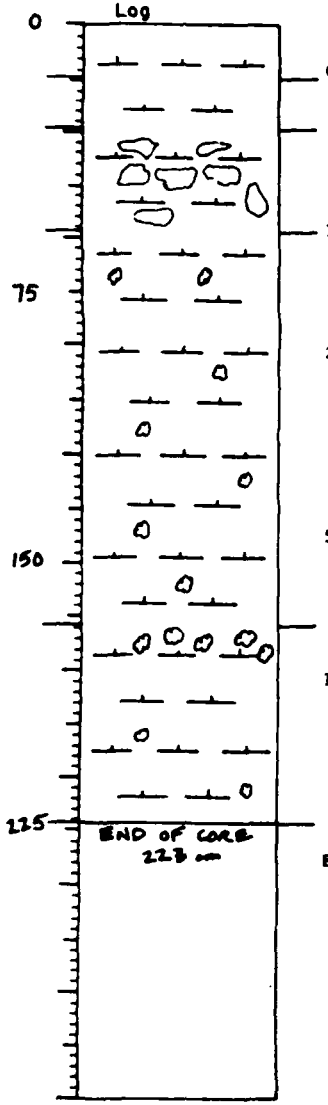
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		3			7	10	40	10		25	5		
45	CALC OOZE		TR			5	10	48	6		30	1		
115	CALC OOZE		1			7	20	49	8		15	TR		
208	CALC OOZE		TR			10	10	40	15		25			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 107 Core No 107 JPC
Total Length 223 cm. Lat. 25°58.74'N Long. 78°10.68'W Depth 679 m corr.
Core condition EXCELLENT Date Described 28 OCT. '70 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 8/1 white
Very silty lutite with abundant forams and pteropods
Few regions tinged with 10 YR 7/6 yellow
G, irregular

14-29
CALC OOZE
10 YR 8/2 white
Silty lutite with abundant forams
S

29-58
CALC OOZE
10 YR 8/2 white
Large 10 YR 7/2 light gray mottles near base of unit
Dry semi-lithified layer with some lithified bits
Many pebble to stone size lithified pieces noted
G.

58-167
CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/1 light gray mottles
Dry silty lutite with abundant forams
S, mottled

167-223
CALC OOZE
10 YR 8/1 very white
Large 10 YR 5/1 gray mottles from 167-176 cm.; few scattered 10 YR 6/1 gray mottles elsewhere
Dry silty lutite with common forams
Unit is finer grained than above

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 107 JPC
Expedition 205 Station No. 107
Leg No. 2 Total Core Length 223 cm

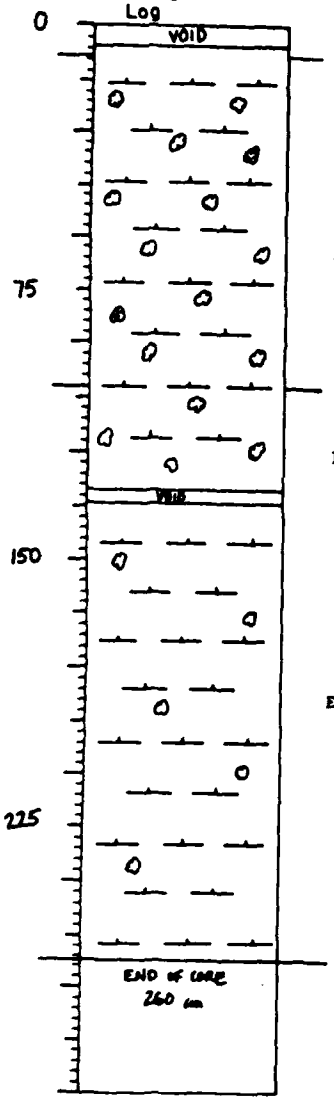
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		1			15	20	30	8		25	1		
20	CALC OOZE		TR			30	20	30	9		11			
45	CALC OOZE	TR	1			20	15	23	1		40			
120	CALC OOZE	TR				10	15	45			30			
210	CALC OOZE		TR			20	10	45	TR		25			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 108 Core No 108 GGC
Total Length 260 cm. Lat. 25°59.03'N Long. 78°10.76'W Depth 743 m corr.
Core condition EXCELLENT Date Described 15 MAR. 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-8
CALC OOZE
10 YR 6/3 pale brown becoming 10 YR 7/4 very pale brown near contact
Slight mixing of main colors noted
Silty lutite with scattered forams
0-5 cm. shrinkage void
S. irregular.

8-102
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 7.5/2 light gray mottling
Silty lutite with common forams becoming more abundant below 85 cm.
Few widely scattered mottles containing foram/pteropod sand
C.

102-260
CALC OOZE
10 YR 8/2.5 very pale brown with slight variations
Extensive 10 YR 7/1 light gray mottles becoming common then scattered below 150 cm.
Very silty lutite with abundant forams and pteropods
Common 10 YR 7/2 light gray mottles from 224-234 cm.; scattered 2.5 Y 7/4 pale yellow features especially 151 cm. and 256 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 108 GGC
Expedition 205 Station No. 108
Leg No. 2 Total Core Length 260 cm

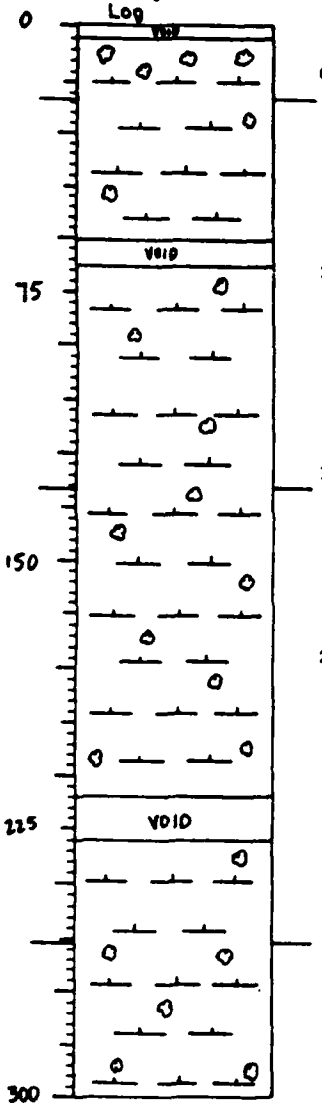
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			8	30	25	15		15	4		
65	CALC OOZE		1			10	8	62	5		10	4		
160	CALC OOZE	TR	TR			10	18	57	7		15	3		
259	CALC OOZE	TR	1			12	15	44	5		20	3		

VISUAL CORE DESCRIPTION

Page 1 of 3

Ship OCE Cruise 205 Leg 2 Sta. 109 Core No 109 JPC
Total Length 821 cm. Lat. 25°59.11'N Long. 78°10.81'W Depth 737 m corr.
Core condition EXCELLENT Date Described 29 Sept '71 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-20
CALC OOZE
10 YR 7/2 light gray
Extensively mixed and mottled with 10 YR 8/1 white and 10 YR 8/2 white
Very silty lutite with abundant forams and common pteropods
0-3 cm. shrinkage void
S.

20-130
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/1 light gray mottles
Silty lutite with abundant forams and increasing pteropod concentrations
Pteropod rich pockets between 75-90 cm.; shrinkage void 61-68 cm.
G, mottled

130-256
CALC OOZE
10 YR 8/2 white
Scattered to common 10 YR 7/2 light gray mottles
Silty lutite with abundant forams and scattered pteropods
216-228 cm.; shrinkage void
S, mottled.

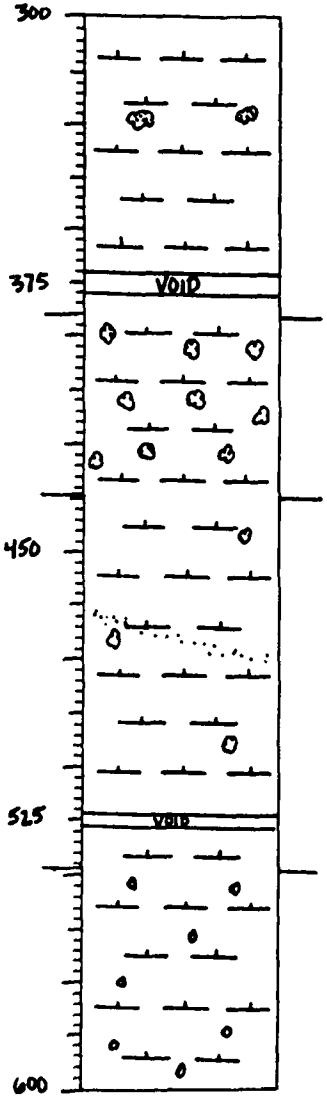
256-384
CALC OOZE
10 YR 7/2 light gray
Common 10 YR 8/2 white mottles above 320 cm.
Silty lutite with common forams and pteropods
Above 290 cm. unit is extensively mixed with 10 YR 8/2 white; scattered regions of increased pteropod concentration, especially from 315-340 cm.; shrinkage void 372-378 cm.
G., mottled.

VISUAL CORE DESCRIPTION

Page 2 of 3

Ship OCE Cruise 205 Leg 2 Sta. 109 Core No. 109 JPC

Lithologic Log



Detailed Description

384-434
CALC OOZE
10 YR 8/2 white
Extensive 10 YR 7/2 mottles
Smooth lutite with common forams and pteropods
Common black flecks throughout
S, mottled.

434-538
CALC OOZE
10 YR 8/2 white
Few widely scattered 10 YR 8/1 white mottles
Moist silty lutite with abundant forams and pteropods
Large 10 YR 7/2 feature (erosional?) from 473-478 cm.
S.

538-661
CALC OOZE
10 YR 8/1 white grading to 10 YR 7.5/2 light gray
Common small 10 YR 7/1 light gray mottles
Silty lutite with abundant forams
Few regions of high pteropod concentration from 625-645 cm.
G.

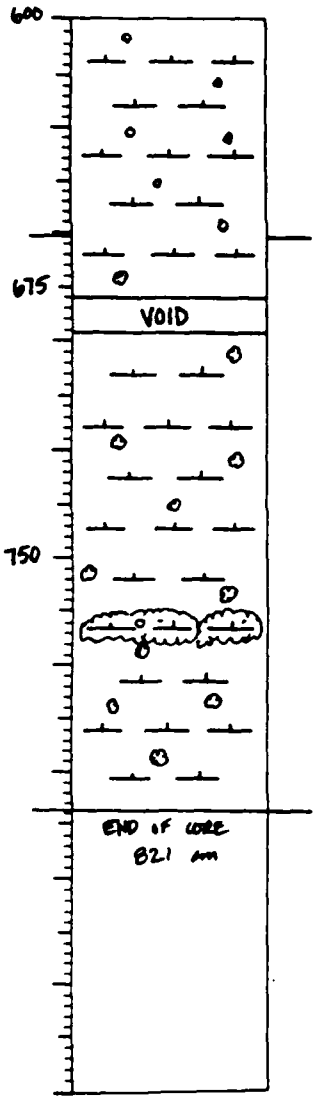
661-821
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/2 light gray mottles throughout
Mostly smooth lutite with increasing pteropods down to 775 cm. where forams appear to increase
Shrinkage void 678-688 cm.
Large 2.5Y 5.5/2 brownish gray mottled region 765-774 cm.

END OF CORE

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 109 Core No. 109 JPC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 109 JPC

Expedition 205 Station No. 109

Leg No. 2 Total Core Length 821 cm

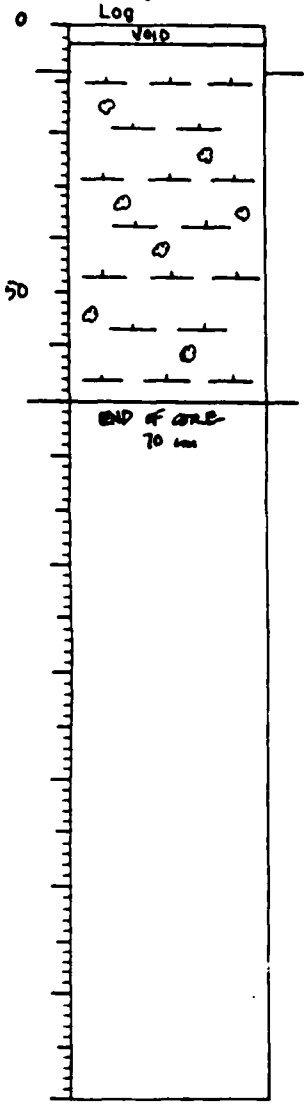
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE		1			8	10	40	3		35	3		
100	CALC OOZE		1			10	15	37	7		30	TR		
200	CALC OOZE		TR			10	10	42	8		30	TR		
300	CALC OOZE	1	1			15	12	40	4		25	2		
400	CALC OOZE		TR			10	20	20	2		46	2		
500	CALC OOZE	1	1			6	20	39	10		25	TR		
600	CALC OOZE		TR			15	20	40	5		20	TR		
700	CALC OOZE		TR			12	10	55	3		20	TR		
820	CALC OOZE		TR			13	15	45	2		25	TR		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 109 Core No. 109 PG
Total Length 70 cm. Lat. 25°59.11 'N Long. 78°10.87 W Depth 737 m corr.
Core condition EXCELLENT Date Described 29 OCT. '91 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-8
CALC OOZE
10 YR 7/3 very pale brown
Silty lutite with common forams and pteropods
0-3 cm. shrinkage void
S.

8-70
CALC OOZE
10 YR 8/1 white
Common 10 YR 7.5/1 white mottles throughout
Silty lutite with common to abundant forams and pteropods
Few 10 YR 7/6 yellow regions near top of unit

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

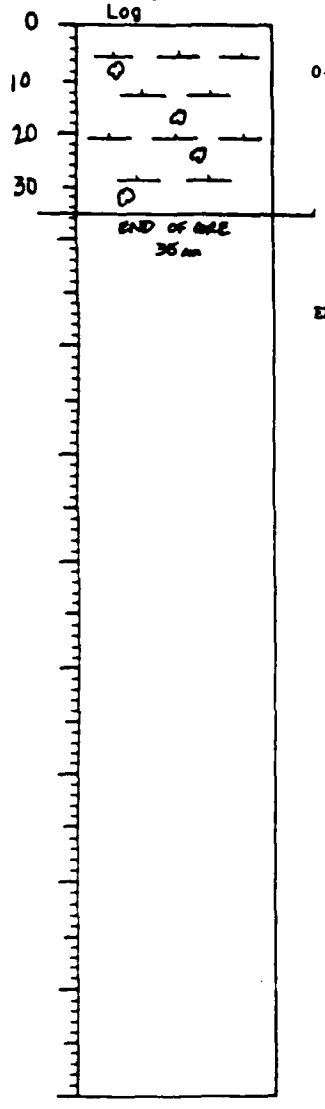
Ship: OCE Core No. 109 PG
Expedition 205 Station No. 109
Leg No. 2 Total Core Length 70 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand				Clay	Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards		Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		2			8	20	35	4		25	6		
35	CALC OOZE		TR			10	15	38	3		30	4		
69	CALC OOZE		1			9	20	35	8		20	7		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 110 Core No 110 GGC
Total Length 35 cm. Lat. 25°56.90'N Long. 78°41.78' W Depth 537 m corr.
Core condition EXCELLENT Date Described 15MAR1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-35

CALC OOZE
10 YR 7.5/2 light gray grading to 10 YR 8/2 white below 6 cm.
Common 10 YR 7/2 light gray mottles throughout
Silty lutite with common to abundant forams
Much of core below 8 cm. is marked by increasing concentration of 10 YR 7/6 yellow features and scattered concentrations of coral fragments and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

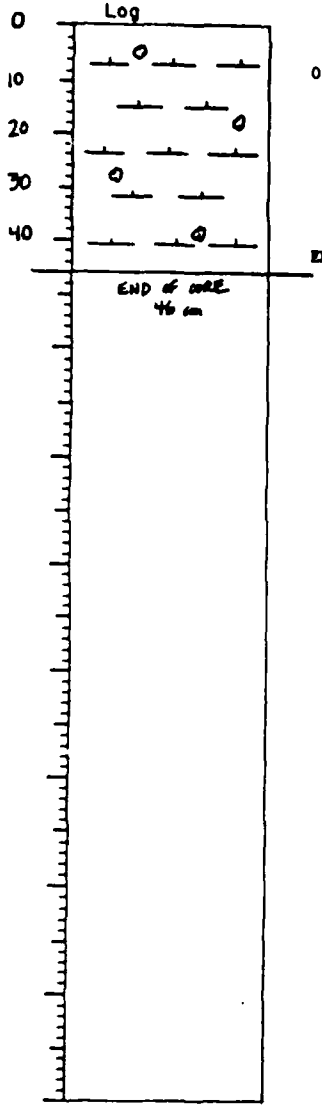
Ship: OCE Core No. 110 GGC
Expedition 205 Station No. 110
Leg No. 2 Total Core Length 35 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		1			6	15	44	10		20	4		
34	CALC OOZE		2			5	20	55	10		7	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 111 Core No 111 GGC
Total Length 46 cm. Lat. 25°55.42'N Long. 78°07.36'W Depth 516 m corr.
Core condition EXCELLENT Date Described 15 MAR, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-46

CALC OOZE
10 YR 7.5/1.5 light gray
Scattered 10 YR 7/2 light gray mottles
Very silty lutite with common forams
0-4 cm. disturbed; pteropod fragments become scattered to more common below 25 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

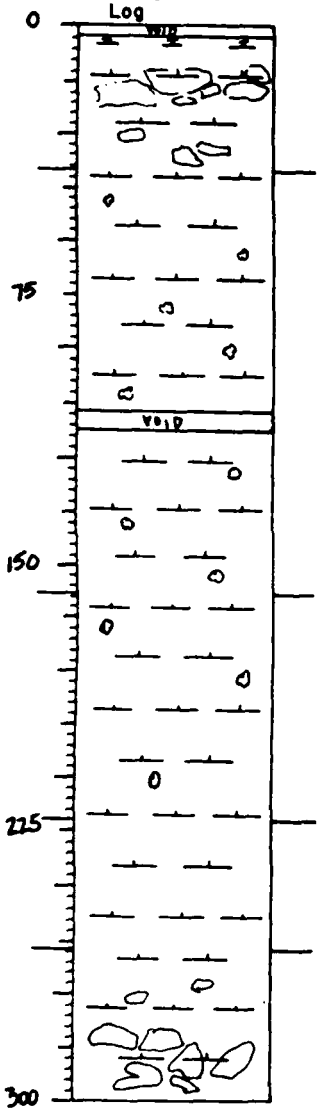
Ship: OCE Core No. 111 GGC
Expedition 205 Station No. 111
Leg No. 2 Total Core Length 46 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		TR			10	20	38	15		15	2		
44	CALC OOZE		TR			8	15	42	15		20	TR		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 112 Core No 112 JPC
Total Length 404 cm. Lat. 25°55.35'N Long. 78°07.60'W Depth 513 m corr.
Core condition EXCELLENT Date Described 29 OCT, 91 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-40
CALC OOZE
10 YR 8/2 white
Semilithified lutite with abundant forams, pteropods and coral fragments
0-2 cm. shrinkage void; many large lithified bits especially between 10-25 cm.
S.

40-158
CALC OOZE
10 YR 8/2 white
Common but faint 10 YR 7.5/1 white mottles
Silty lutite with abundant forams and pteropods
107-110 cm. shrinkage void
S, mottled.

158-222
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 8/2 white mottles
Silty lutite with abundant forams and scattered pteropods
S, mottled.

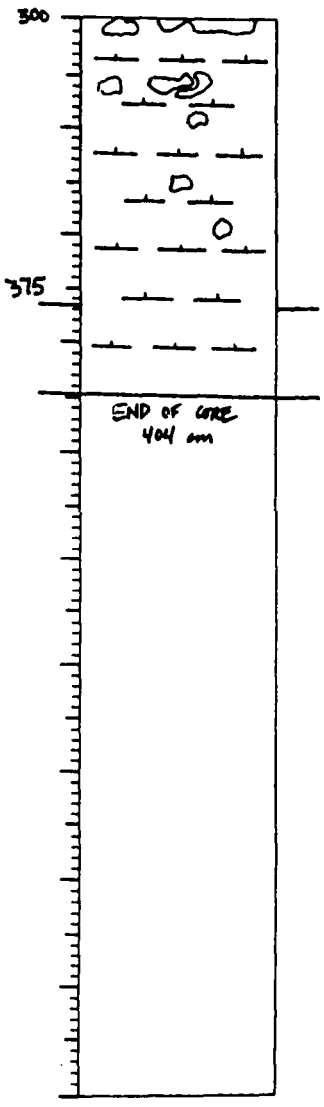
222-254
CALC OOZE
10 YR 8/1 white
Scattered to common 10 YR 8/2 white mottles
Smooth lutite with common forams and pteropods
G.

254-380
CALC OOZE
10 YR 7/2 white
Silty lutite with common forams and large lithified chunky features.
Many lithified bits throughout but especially between 280-305 cm.; unit also contains what appear to be coral fragments.
S.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 112 Core No 112 JPC

Lithologic Log



Detailed Description

380-404
CALC OOZE
10 YR 8/2 white
Very silty lutite with abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 112 JPC

Expedition 205 Station No. 112

Leg No. 2 Total Core Length 404 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		1			14	35	25	10		15			
100	CALC OOZE		TR			10	15	40	5		30			
200	CALC OOZE		1			14	25	25	10		25			
240	CALC OOZE		1			10	15	30	7		37			
330	CALC OOZE	TR	2			5	15	25	3		50			
395	CALC OOZE		TR			10	20	30	10		30			

VISUAL CORE DESCRIPTION Page 1 of 1

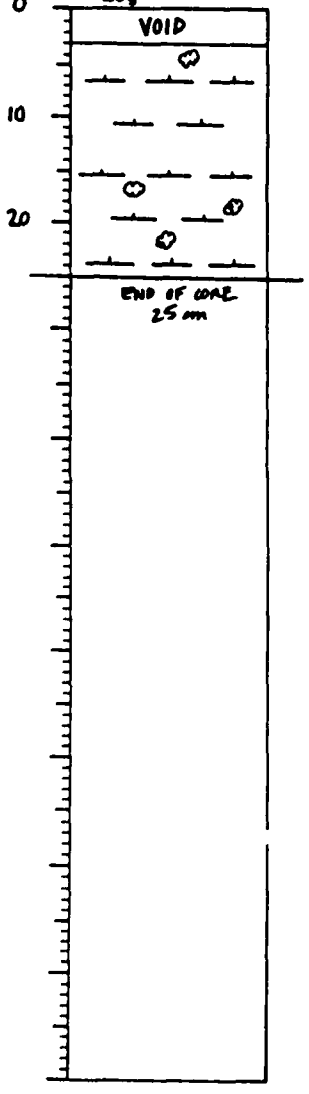
Ship OCE Cruise 205 Leg 2 Sta. 112 Core No 112-PC

Total Length 25 cm. Lat. 25°55.35'N Long. 78°07.60'W Depth 513 m corr.

Core condition EXCELLENT Date Described 12 NOV. '91 by P. MILLS

Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-25

CALC OOZE
10 YR 8/2 white
Few 10 YR 4/2 dark grayish brown mottles above 6 cm.; scattered 10 YR 7/1 light gray mottles below 14 cm.
Moist, silty lutite with abundant forams
0-3 cm. shrinkage void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 112 PG

Expedition 205 Station No. 112

Leg No. 2 Total Core Length 25 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		3			10	15	36	10		25	1		
23	CALC OOZE		2			10	20	35	10		20	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 114 Core No 114 GGC

Total Length 7 cm. Lat. 25°59.97'N Long. 78°06.58'W Depth 463 m corr.

Core condition NOT SPLIT Date Described — by —

Physiographic location GREAT BAHAMA BANK

Lithologic Log

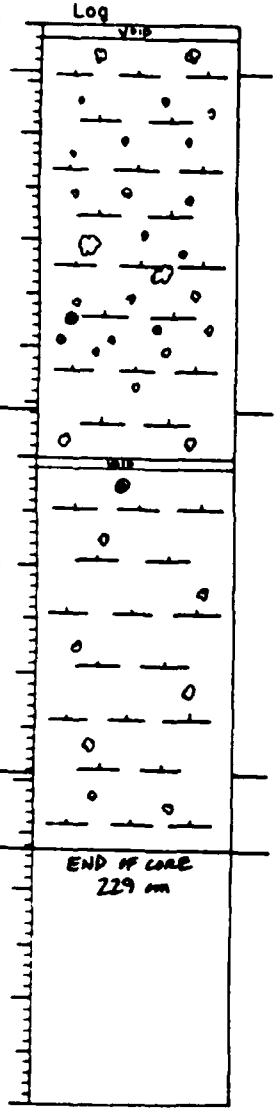
Detailed Description

NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 116 Core No 116 GGC
Total Length 229 cm. Lat. 26°02.00'N Long. 77°52.49'W Depth 1534 m corr.
Core condition EXCELLENT Date Described 5 NOV '91 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-12
CALC OOZE
10 YR 7/3 very pale brown
Common mixing and mottling of 10 YR 7/1 light gray and 10 YR 6/3 pale brown
Slightly silty lutite with common forams
0-3 cm. shrinkage void
Moderately B.

12-107
CALC OOZE
10 YR 8/1 white
Extensive 10 YR 6/3 and 5/3 small brown mottles; few large 10 YR 7/2 light gray mottles 59-68 cm.
Silty lutite with abundant forams
Well preserved worm burrow at 84 cm.
G.

107-208
CALC OOZE
10 YR 7/3 very pale brown becoming lighter below 175 cm.
Scattered 10 YR 4/2 dark grayish brown mottles above 136 cm.; widely scattered 10 YR 5/1 gray mottles elsewhere
Silty lutite with abundant forams
Large well preserved worm burrow from 129-130 cm.
Very G from 175 cm.

208-229
CALC OOZE
10 YR 8/2 white
Few small 10 YR 4/2 dark grayish brown mottles
Silty lutite with abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

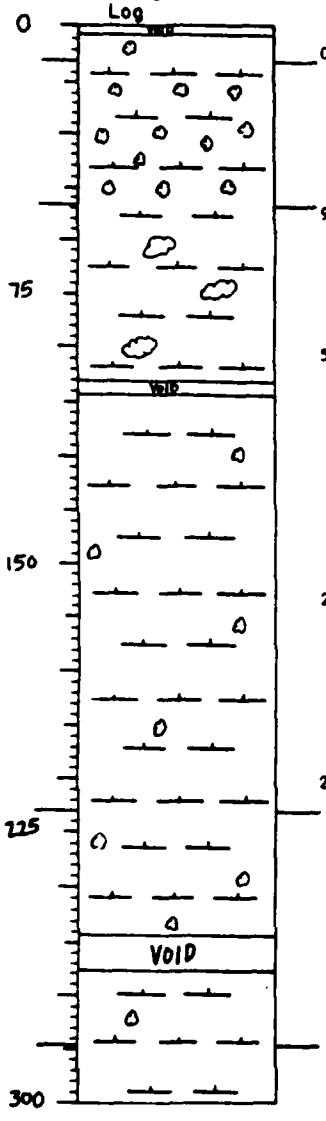
Ship: OCE Core No. 116 GGC
Expedition 205 Station No. 116
Leg No. 2 Total Core Length 229 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		3			15	15	34	8		20	5		
70	CALC OOZE		1			20	8	28	5		35	3		
140	CALC OOZE		3			23	5	50	3		15	2		
225	CALC OOZE		1			20	4	60	3		15	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 117 Core No 117 JPC
Total Length 703 cm. Lat. 26°02.01' N Long. 77°52.67' W Depth 1535 m corr.
Core condition EXCELLENT Date Described Nov, 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-9
CALC OOZE
10 YR 7.5/2.5 very pale brown
Scattered 10 YR 7/1 light gray mottles
Slightly silty lutite with common forams
0-2 cm. shrinkage void
S.

9-50
CALC OOZE
10 YR 8/2 white
Abundant 10 YR 7/3 very pale brown mottles
Slightly silty lutite with abundant forams
G.

50-219
CALC OOZE
10 YR 7.5/3 very pale brown with faint color variations becoming overall lighter down core.
Scattered large 10 YR 6/2 light brownish gray mottled regions above 100 cm.; widely scattered mottles elsewhere
Silty lutite with common to abundant forams, especially abundant from 150-166 cm.
Shrinkage void 99-103 cm.; few faint 5Y 8/3 pale yellow bands noted
S.

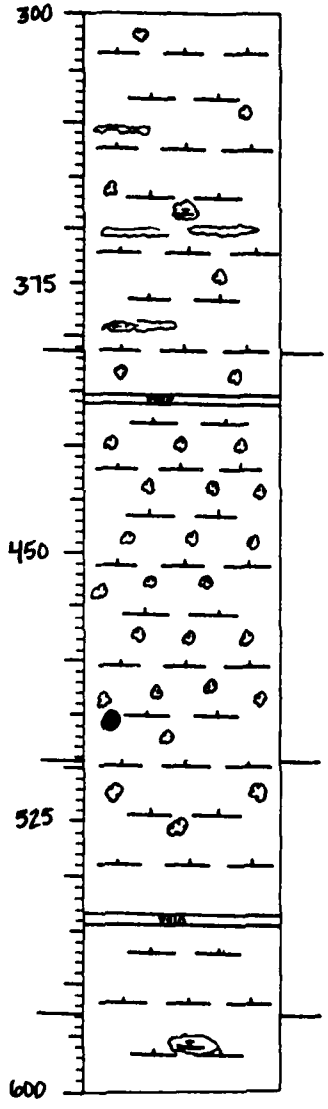
219-284
CALC OOZE
10 YR 8/1 white
Scattered 5 Y 7/2 light gray mottles with some black flecks
Smooth lutite with abundant forams
Shrinkage void 253-263 cm.
S.

284-394
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 6.5/2 light brownish gray mottles with some bands
Slightly silty lutite with common to abundant forams
Scattered pockets of increased foram/pteropod concentration especially below 350 cm.
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 117 Core No 117 JPC

Lithologic Log



Detailed Description

394-508
CALC OOZE
10 YR 8/2 white
Extensive 2.5 Y 6.5/2 light gray mottles; scattered black flecks noted throughout
Slightly silty lutite with common forams
Scattered regions of increased foram/pteropod concentration throughout; shrinkage void 406-410 cm.; large well-preserved burrow at 496 cm.
G, mottled.

508-578
CALC OOZE
10 YR 8/1 white
Common 2.5 Y 6.5/2 light gray mottles above 535 cm.
Smooth lutite with common forams; increased pteropod presence down section
Common black flecks noted throughout; shrinkage void 550-553 cm.
G.

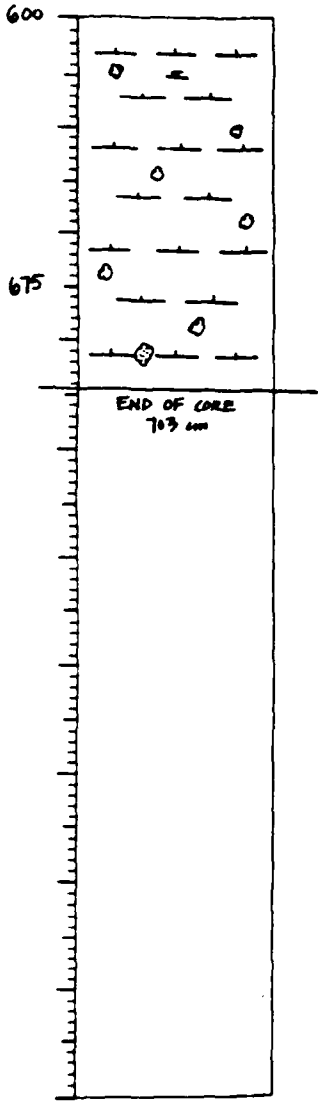
578-703
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 6/1 gray and 3/1 very dark gray mottles coinciding with increased foram/pteropod concentration
Silty lutite with abundant forams becoming somewhat smoother below 670 cm.
Bands of very abundant forams and pteropods noted at 587-592 cm., 612-617 cm., large sandy mottle at 696 cm.

END OF CORE

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 117 Core No. 117 JPC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE

Expedition 205

Leg No. 2

Core No. 117 JPC

Station No. 117

Total Core Length 703 cm

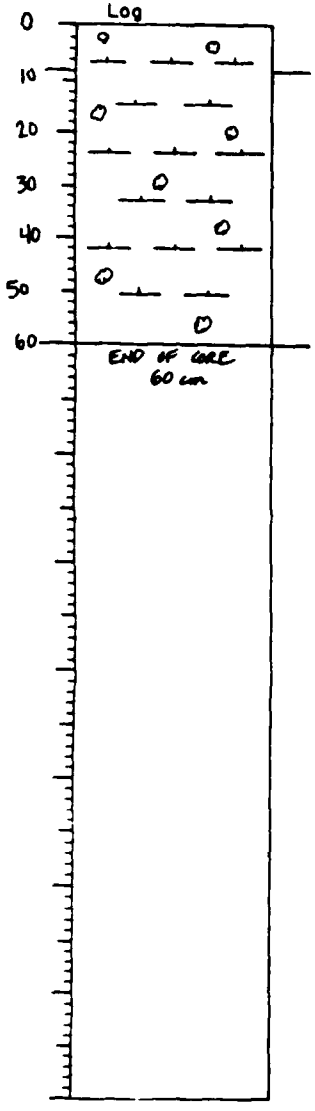
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micromodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		3			8	20	38	3		25	3		
30	CALC OOZE	1	2			10	10	45	3	TR	25	4		
130	CALC OOZE		2			15	5	58	2		15	3		
240	CALC OOZE		1			20	10	45	5		25	4		
330	CALC OOZE		TR			20	7	47	3		20	3		
430	CALC OOZE		TR			15	10	41	5		25	4		
530	CALC OOZE		1			10	8	30	2		46	3		
630	CALC OOZE	TR	2			10	8	45	6		25	4		
702	CALC OOZE		1			14	5	60	2		15	3		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 117 Core No 117 PG
Total Length 60 cm. Lat. 26°02.01'N Long. 77°52.67'W Depth 1535 m corr.
Core condition EXCELLENT Date Described NOV. 1991 by P. MILLS
Physiographic location GREAT BAHAMA BANK

Lithologic Log



Detailed Description

0-8

CALC OOZE
10 YR 7.5/2.5 very pale brown
Scattered 10 YR 7/2 light gray mottles
Silty lutite with common forams
S.

8-60

CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/2 light gray mottles and bands; scattered 10 YR 7/3 very pale brown mottles below 40 cm.
Slightly silty lutite with common forams becoming more abundant below 45 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 117 PG
Expedition 205 Station No. 117
Leg No. 2 Total Core Length 60 cm

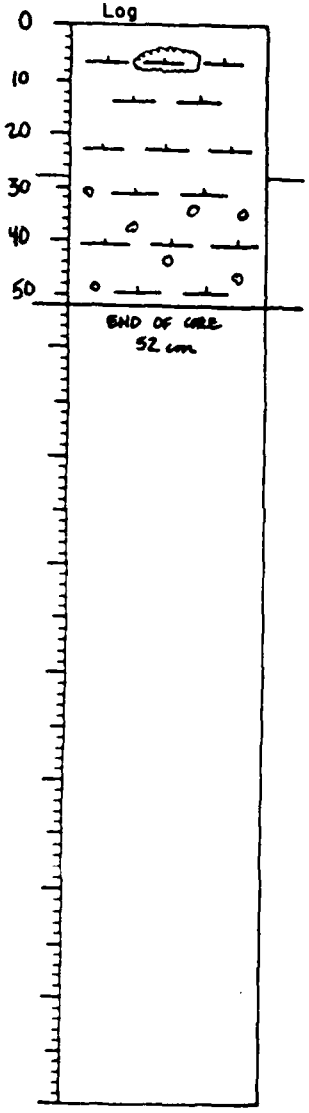
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		3			8	7	46	3		30	3		
40	CALC OOZE		1			10	5	55	2		25	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 118 Core No 118 GGC
Total Length 52 cm. Lat. 26°07.44' N Long. 77°44.00' W Depth 1451 m corr.
Core condition EXCELLENT Date Described 4 NOV. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-28
CALC OOZE
10 YR 7.5/3 with faint color variations
Large 10 YR 7/2 silty light gray mottled region from 4-7 cm.
Smooth lutite with common forams
S.

28-52
CALC OOZE
10 YR 8/2 white
Scattered small 10 YR 7/2 light gray mottles
Slightly silty lutite with common to abundant forams
Core becomes dry and silty below 48 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

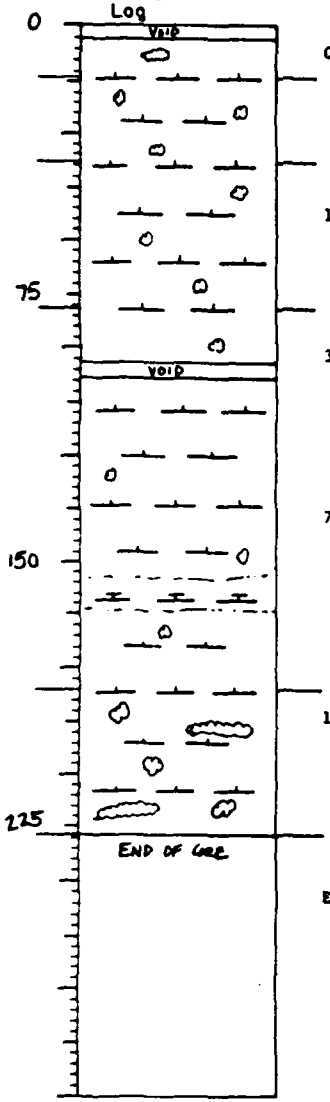
Ship: OCE
Expedition 205
Leg No. 2
Core No. 118 GGC
Station No. 118
Total Core Length 52 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	TR	2			12	10	45	4		25	2		
20	CALC OOZE		2			10	15	44	5		20	4		
50	CALC OOZE		TR			8	15	45	6		25	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 119 Core No 119 JPC
Total Length 227 cm. Lat. 26°07.26' N Long. 77°44.04' W Depth 1464 m corr.
Core condition EXCELLENT Date Described 4 NOV. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-14
CALC OOZE
10 YR 7/3 very pale brown
Few 10 YR 6/1 gray mottles
Slightly silty lutite with common forams
0-3 cm. shrinkage void
G.

14-38
CALC OOZE
10 YR 8/2 white
Common 10 YR 6/1 gray mottles with black flecks
Silty lutite with common to abundant forams
G.

38-79
CALC OOZE
10 YR 7/4 very pale brown grading to 10 YR 8/3 very pale brown
Scattered to common 10 YR 6/2 light brownish gray
Silty lutite with abundant forams
G.

79-186
CALC OOZE
10 YR 8/2 white
Few 10 YR 6/2 light brownish gray and 6/1 gray mottles
Dry silty lutite with abundant forams
Shrinkage void 94-98 cm.; large foram/pteropod sand layer from 155-164 cm.
S.

186-227
CALC OOZE
10 YR 8/2 white
Common large 2.5Y 7/2 light gray mottles and bands subparallel to stratification
Smooth to slightly silty lutite with common forams
Common black flecks noted throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 119 JPC
Expedition 205 Station No. 119
Leg No. 2 Total Core Length 227 cm

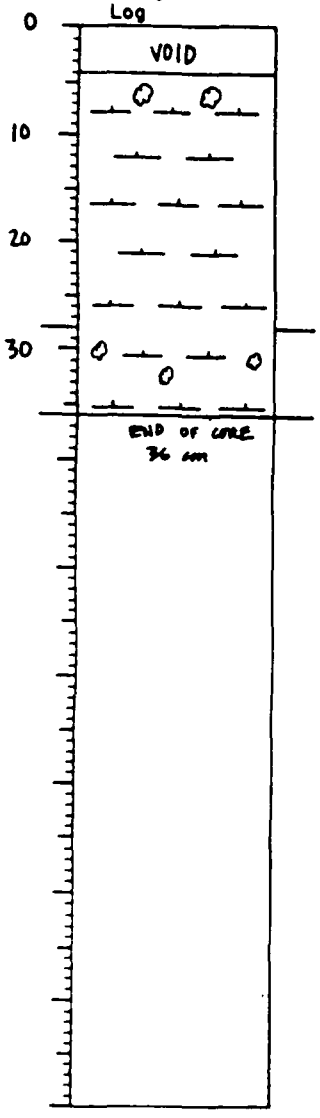
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micromodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		2			10	8	41	6		30	3		
24	CALC OOZE		TR			10	10	35	8		35	2		
50	CALC OOZE		1			15	9	39	4		30	2		
120	CALC OOZE		TR			20	10	44	5		20	1		
225	CALC OOZE		TR			15	10	30	3		40	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 119 Core No 119 PG
Total Length 36 cm. Lat. 26°07.26'N Long. 77°49.04'W Depth 1464 m corr.
Core condition EXCELLENT Date Described 4 NOV. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-28
CALC OOZE
10 YR 7/3 with slight color variations
Few large 10 YR 6/1 gray mottles especially above 11 cm.
Slightly silty lutite with common forams
0-4 cm. shrinkage void; three 10 YR 7/6 yellow bands from 26-28 cm.
S.

28-36
CALC OOZE
10 YR 8/1 white
Scattered 10 YR 7/1 light gray mottles
Silty lutite with common forams and scattered pteropods
Scattered coral tests below 34 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

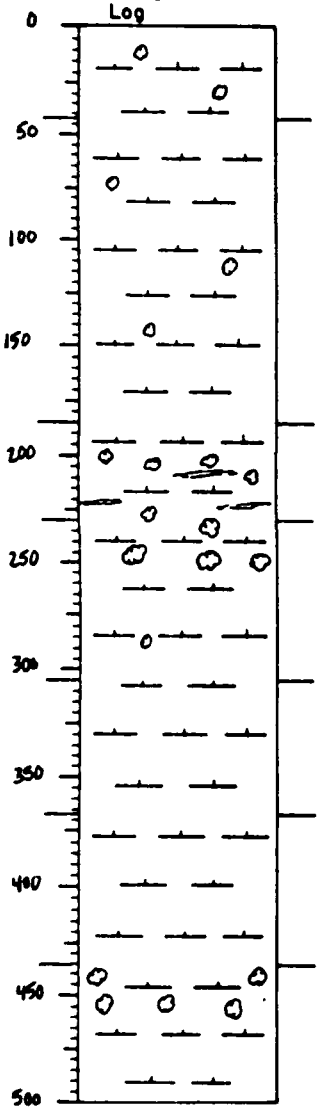
Ship: OCE Core No. 119 PG
Expedition 205 Station No. 119
Leg No. 2 Total Core Length 36 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		3			12	15	44	5		20	1		
34	CALC OOZE	TR	TR			16	8	35	4		35	2		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. _____ Core No. 120 JPC
Total Length 643 cm. Lat. 25°53.74' N Long. 78°10.68' W Depth 1466 m corr.
Core condition EXCELLENT Date Described 14 MAY, '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-42
CALC OOZE
10 YR 8/3 very pale brown except 10 YR 8/1 white from 7-19 cm.
Scattered to common 10 YR 7/1 light gray mottles
Very silty lutite with common forams
Region below 38 cm. is predominantly 10 YR 7/2 light gray
S.

42-185
CALC OOZE
10 YR 8/2 white with faint variations on a 20-30 cm. scale
Scattered 10 YR 7/3 very pale brown mottles
Silty lutite with abundant forams
Several horizontally oriented regions tinged with 5Y 8/3 pale yellow; scattered black flecks noted throughout unit
G.

185-230
CALC OOZE
10 YR 8/2 white
Extensive 10 YR 7/2 light gray mottles/burrows, many showing horizontal orientation
Silty lutite with common forams
Several regions tinged with 5Y 8/3 pale yellow
G.

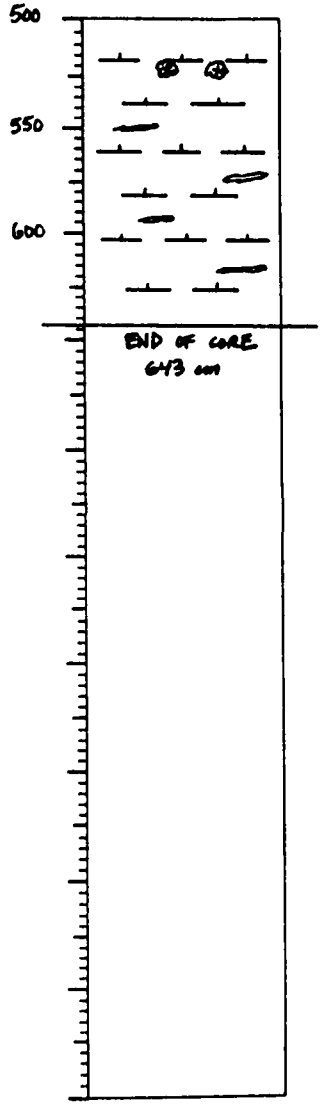
230-305
CALC OOZE
10 YR 8/1 white
Many large 10 YR 7/2 light gray mottles above 265 cm.; few below this level
Smooth lutite with common forams
Abundant black flecks throughout unit
G.

305-367
CALC OOZE
10 YR 8/2 white
Silty lutite with abundant forams
Scattered black flecks throughout
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 120 Core No 120 JPC

Lithologic Log



Detailed Description

367-435
CALC OOZE
10 YR 8/1 white
Slightly silty lutite with abundant forams
Scattered black flecks noted throughout; few G regions tinged with 5Y 8/3 pale yellow

435-643
CALC OOZE
10 YR 8/1 white
Abundant 2.5 Y 6.5/2 light brownish gray mottles above 470 cm.; scattered 10 YR 7/2 light gray mottles showing horizontal orientation below 520 cm.
Slightly silty lutite with abundant forams
Entire unit contains common to abundant black flecks; two 2.5 Y 6.5/2 light brownish gray regions at 487 cm. and 590-595 cm.; few large foram-pteropod filled mottles at 520 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 120 JPC

Expedition 205 Station No. 120

Leg No. 2 Total Core Length 643 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			10	20	30	7		30	1		
100	CALC OOZE		1			19	20	40			20	TR		
200	CALC OOZE		TR			20	30	16	5		25	4		
275	CALC OOZE		TR			8	15	5	2		69	1		
360	CALC OOZE		1			15	15	45			22	2		
410	CALC OOZE		TR			15	10	35	5		35	TR		
500	CALC OOZE		2			13	8	40	9		25	3		
640	CALC OOZE		1			15	5	40	8		29	2		

VISUAL CORE DESCRIPTION

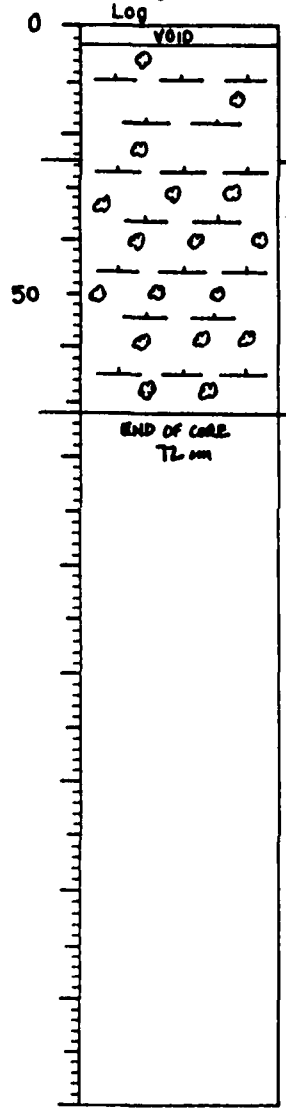
Ship OCE Cruise 205 Leg 2 Sta. 120 Core No 120 PC

Total Length 72 cm. Lat. 26°07.30'N Long. 77°44.10'W Depth 1466 m corr.

Core condition EXCELLENT Date Described 18 MAY, 1991 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-25
CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 7/1 light gray mottles
Silty lutite with common forams
0-3 cm. shrinkage void
S.

25-72
CALC OOZE
10 YR 8/2 white
Extensive 10 YR 7/3 very pale brown and 10 YR 6/1 light gray mottling
Silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 120 PG

Expedition 205 Station No. 120

Leg No. 2 Total Core Length 72 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		2			10	10	43	6		25	4		
65	CALC OOZE	TR	TR			10	15	47	10		15	3		

VISUAL CORE DESCRIPTION

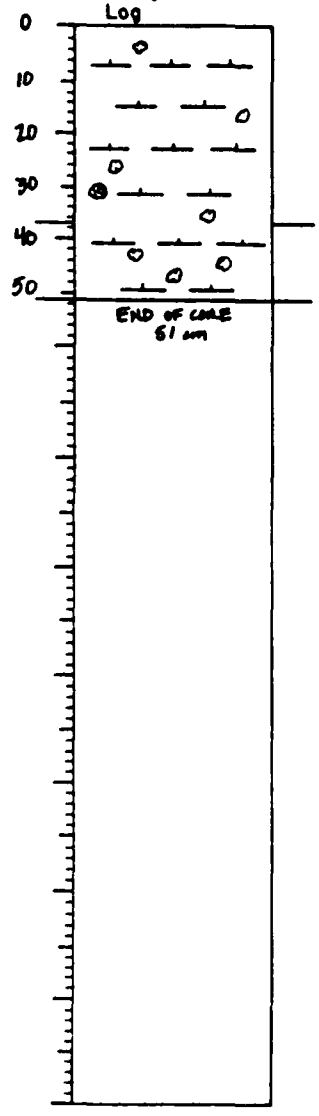
Ship OCE Cruise 205 Leg 2 Sta. 121 Core No 121GGC

Total Length 61 cm. Lat. 26°09.20'N Long. 71°43.46'W Depth 1253 m corr.

Core condition EXCELLENT Date Described 4 NOV. '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-37

CALC OOZE
10 YR 7/3 very pale brown with faint color variations
Scattered 10 YR 8/2 white and 10 YR 6/1 light gray mottles
Slightly silty lutite with common forams
Large silty mottle at 30-32 cm.
Very G, mottled.

37-51

CALC OOZE
10 YR 8/2 white
Common 10 YR 7/3 very pale brown and scattered 10 YR 6/1 light gray mottles
Slightly silty lutite with common to abundant forams
Unit becomes much siltier below 47 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 121 GGC

Expedition 205 Station No. 121

Leg No. 2 Total Core Length 51 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	TR	2			10	15	40	4	TR	25	4		
25	CALC OOZE		1			15	4	40	3		36	1		
50	CALC OOZE		3			10	15	35	8		25	4		

VISUAL CORE DESCRIPTION

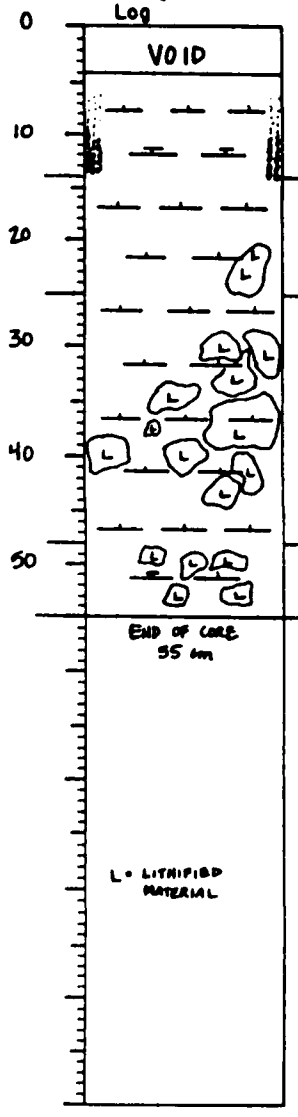
Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 122 Core No 122 JPC

Total Length 55 cm. Lat. 26°09.43'N Long. 77°43.45'W Depth 1263 m corr.

Core condition EXCELLENT Date Described 12 NOV, '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK



Detailed Description

0-14
CALC OOZE
10 YR 8/3 very pale yellow
Very silty grading to foram sand
0-4 cm. shrinkage void; turbidite?
S.

14-25
CALC OOZE
10 YR 8/2 white
Very sandy moist lutite with abundant forams
Large lithified chunk at 21-26 cm. with manganese
G. Textural

25-48
CALC OOZE
Mainly 10 YR 8/2 white
Sandy and lithified with pebble to stone size concretions
Many pteropod tests visible; black tape found against inside wall of liner from 30-35 cm. (may have caused color change to gray and black)
G.

48-55
CALC OOZE
10 YR 8/3 very pale brown
Very sandy with smaller lithified bits
Mainly foram and pteropod tests

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 122 JPC

Expedition 205 Station No. 122

Leg No. 2 Total Core Length 55 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	CALC OOZE		TR			8	60	20	7		5			
18	CALC OOZE	1	2			2	15	30			50			
29	CALC OOZE					7	20	40	3		30			
54	CALC OOZE					5	45	30	2		18			

VISUAL CORE DESCRIPTION Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 122 Core No 122 PC

Total Length 3 cm. Lat. 26°09.43' N Long. 77°43.95' W Depth 1263 m corr.

Core condition NOT SPLIT Date Described — by —

Physiographic location LITTLE BAHAMA BANK

Lithologic Log

Detailed Description

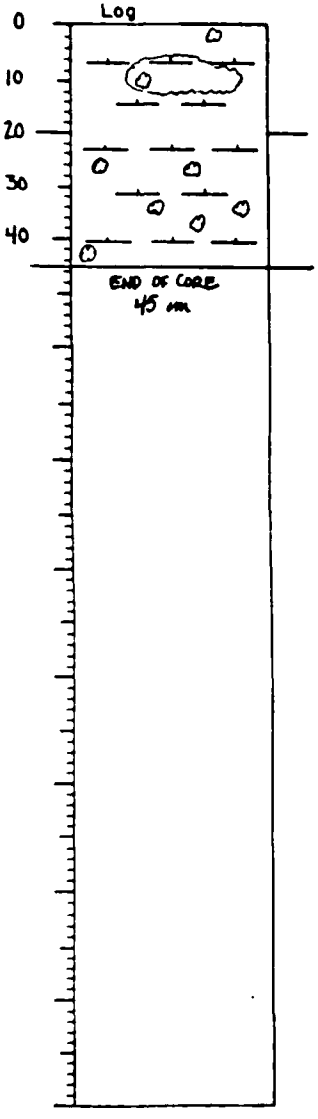
NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 140 Core No 140 GGC
Total Length 45 cm. Lat. 26°12.01'N Long. 77°42.03'W Depth 964 m corr.
Core condition EXCELLENT Date Described 4 NOV. 1991 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-20

CALC OOZE
10 YR 7.5/2 light gray
Large predominantly 10 YR 6/3 pale brown mottled region from 7-12 cm.
Silty lutite with common to abundant forams
Several faint 10 YR 7/4 very pale brown bands noted below 12 cm.
G.

20-45

CALC OOZE
10 YR 8/1 white and 10 YR 7.5/1 light gray
Extensive mottling and mixing of main colors
Slightly silty lutite with abundant forams and common pteropods
Large round mottle filled with foram/pteropod sand at 22-25 cm.

EN.) OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

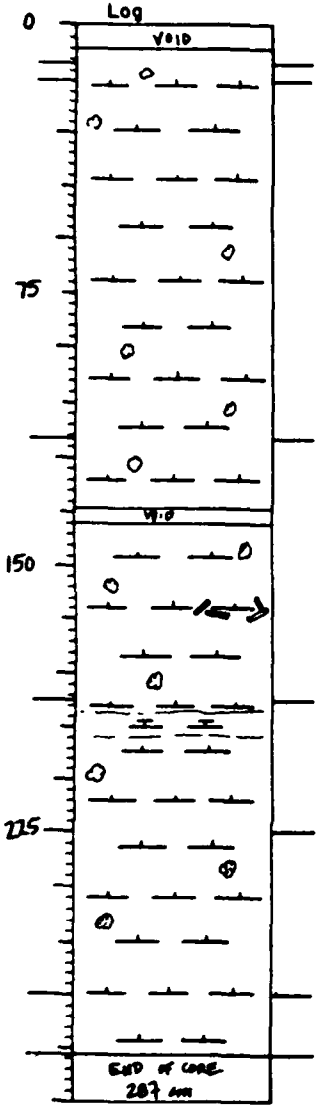
Ship: OCE Core No. 140 GGC
Expedition 205 Station No. 140
Leg No. 2 Total Core Length 45 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	1	2			8	10	48	4		25	2		
10	CALC OOZE		3			12	8	42	3		30	2		
40	CALC OOZE		2			15	20	33	7		20	3		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 141 Core No 141 JPC
Total Length 287 cm. Lat. 26° 11.96' N Long. 73° 41.01' W Depth 958 m corr.
Core condition EXCELLENT Date Described 5 NOV, '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10
CALC OOZE
10 YR 7/2.5 very pale brown
Silty lutite with common forams
0-6 cm. shrinkage void; two small 10 YR 6/6 yellowish brown regions near 10 cm.
S, irregular

10-15
CALC OOZE
10 YR 8/1 white
Faint 10 YR 7/1 light gray mottling
Silty lutite with common forams
I, Mottled.

15-115
CALC OOZE
10 YR 8/2.5 with faint color variations
Widely scattered 10 YR 7/1 light gray mottles
Silty lutite with abundant forams
Scattered groups of black flecks especially from 55-75 cm.
G.

115-188
CALC OOZE
10 YR 7.5/2 light gray
Common 10 YR 7/2 mottles and bands
Silty lutite becoming slightly silty below 165 cm. with forams ranging from common to abundant
Shrinkage void 134-138 cm.; scattered black flecks noted throughout; coral *tests* noted from 160-165 cm.
S.

188-225
CALC OOZE
10 YR 8/2 white
Scattered large 10 YR 7/2 light gray mottles
Very silty lutite with abundant forams and pteropods
Unit is primarily foram/pteropod hash from 190-197 cm.
Very G from 218 cm. to 230 cm.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 141 Core No 141 JPC

Lithologic Log

Detailed Description

225-270
CALC OOZE
10 YR 8/1.5 white with very faint color variations
Scattered sandy mottles
Slightly silty to smooth lutite with common to abundant forams
Scattered black flecks noted throughout
S.

270-287
CALC OOZE
10 YR 7/2 light gray and 10 YR 7/1 light gray
Faint color variations and mixing
Silty lutite with scattered forams
Common black flecks organized into faint bands

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 141 JPC

Expedition 205 Station No. 141

Leg No. 2 Total Core Length 287 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	CALC OOZE		2			6	8	47	4	TR	30	3		
13	CALC OOZE		1			15	10	41	5		25	3		
80	CALC OOZE		TR			25	10	33	6		25	1		
160	CALC OOZE		TR			14	20	20	4		40	2		
210	CALC OOZE		1			17	15	40	5		20	2		
250	CALC OOZE		TR			20	10	40	5		25	TR		
285	CALC OOZE		2			16	15	38	8		20	1		

VISUAL CORE DESCRIPTION

Page 1 of 1

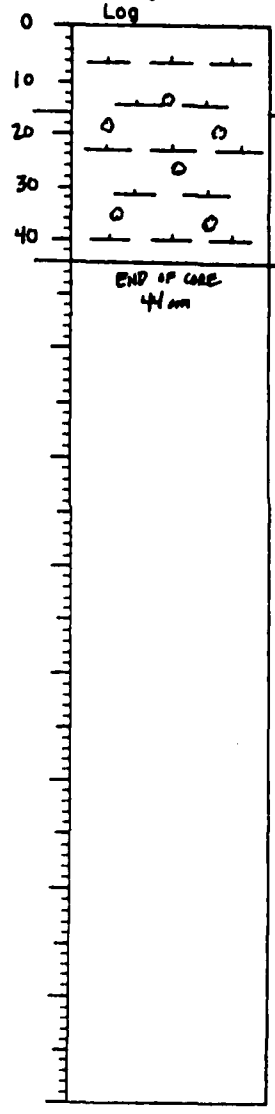
Ship OCE Cruise 205 Leg 2 Sta. 141 Core No 141 PC

Total Length 44 cm. Lat. 26°11.96'N Long. 77°41.01'W Depth 958 m corr.

Core condition EXCELLENT Date Described 5 NOV. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-16

CALC OOZE
10 YR 7/3 very pale brown with faint color variations
Few 10 YR 8/2 white mottles below 13 cm.
Slightly silty lutite with common forams
1 cm. thick 10 YR 6/3 pale brown band below 12 cm.; black flecks noted at 3 cm.
G, Mottled.

16-44

CALC OOZE
10 YR 8/2 white
Common but faint 10 YR 7/2 light gray mottles
Silty lutite with common to abundant forams
Above 25 cm., core contains faint 10 YR 8/4 very pale brown bands

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 141 PG

Expedition 205 Station No. 141

Leg No. 2 Total Core Length 44 cm

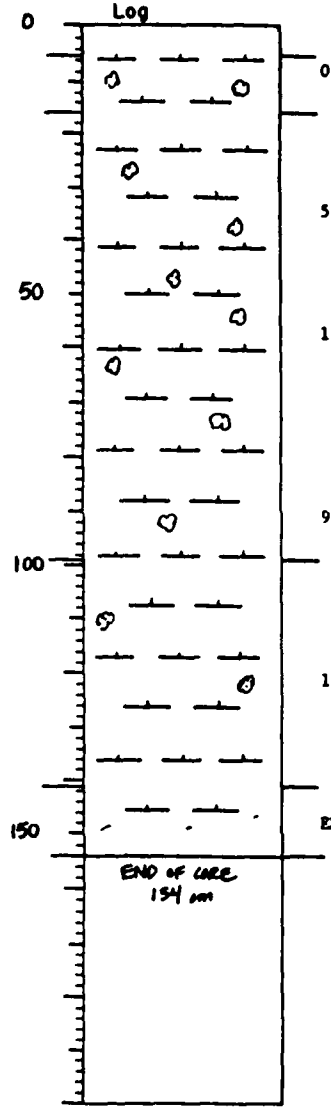
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			10	10	45	5	TR	25	3		
40	CALC OOZE		1			20	9	32	6		30	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 142 Core No 142 JPC
Total Length 154 cm. Lat. 26°11.94' N Long. 77°41.87' W Depth 955 m corr.
Core condition EXCELLENT Date Described 7 NOV, 91 by P MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-5
CALC OOZE
10 YR 7/3 very pale brown
Slightly silty lutite with common forams
Faint 10 YR 8/4 very pale brown layer at unit base
S, irregular

5-16
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/1 light gray mottles
Silty lutite with abundant forams
S.

16-99
CALC OOZE
10 YR 8/3 very pale brown grading to 10 YR 8/2 white below 50 cm.
Common mottling and mixing of main colors and scattered 10 YR 6/1 gray mottles
Slightly silty lutite with abundant forams
Very G from 50 cm.

99-141
CALC OOZE
10 YR 8/1.5 white
Scattered sandy mottles
Smooth lutite with common to abundant forams
Scattered black flecks noted throughout
G.

141-154
CALC OOZE
10 YR 7.5/2 white
Common dark brown and black flecks
Slightly silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 142 JPC

Expedition 205 Station No. 142

Leg No. 2 Total Core Length 154 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	1	2			15	7	42	5		25	3		
10	CALC OOZE		TR			20	10	33	5	TR	30	2		
50	CALC OOZE		1			23	15	40	10		10	1		
120	CALC OOZE		TR			20	5	50	5		20	TR		
153	CALC OOZE		1			20	15	40	8		15	1		

VISUAL CORE DESCRIPTION

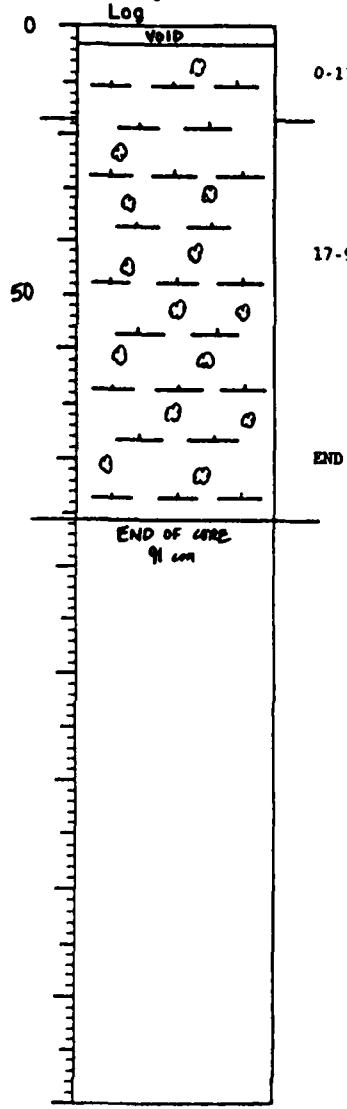
Ship OCE Cruise 205 Leg 2 Sta. 142 Core No 142 PC

Total Length 91 cm. Lat. 26°11.94' N Long. 77°41.87' W Depth 955 m corr.

Core condition EXCELLENT Date Described 7 NOV. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-17

CALC OOZE
10 YR 7/2.5 pale brownish gray with faint color variations
Some mottling of main colors
Silty lutite with common forams
0-3 cm. shrinkage void: few large pteropod tests noted at 16 cm.
S.

17-91

CALC OOZE
10 YR 8/1 white
Abundant 10 YR 7/1 light gray mottling
Silty to fine sandy lutite with common to abundant forams and pteropods
Unit becomes 10 YR 8/3 very pale brown from 56-60 cm. and 70-91 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 142 PG

Expedition 205 Station No. 142

Leg No. 2 Total Core Length 91 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		2			15	10	40	10		20	3		
40	CALC OOZE		1			20	10	43	8		15	3		
90	CALC OOZE		2			11	15	45	10		15	2		

VISUAL CORE DESCRIPTION Page 1 of 1

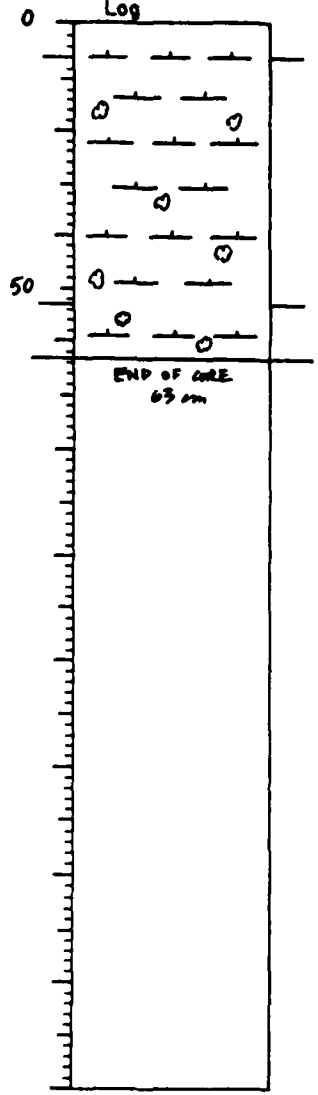
Ship OCE Cruise 205 Leg 2 Sta. 143 Core No 143 GGC

Total Length 63 cm. Lat. 26°19.78'N Long. 77°42.28'W Depth 805 m corr.

Core condition EXCELLENT Date Described 7 NOV. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-6

CALC OOZE
10 YR 6.5/2.5 light brownish gray
Faint color variations noted
Silty lutite with common forams
S, I.

6-53

CALC OOZE
10 YR 8/1 white and 10 YR 7.5/1 light gray
Common to extensive mottling and mixing of main colors
Slightly silty lutite with common to abundant forams
Irregularly shaped 10 YR 6/6 brownish yellow band at 6-7 cm.
G, mottled.

53-63

CALC OOZE
10 YR 8/3 very pale brown
Common 10 YR 7.5/2 light gray mottles
Very silty lutite with abundant forams
Scattered pteropod tests noted especially below 58 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 143 GGC

Expedition 205 Station No. 143

Leg No. 2 Total Core Length 63 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand				Clay	Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards		Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			15	15	36	8		20	4		
35	CALC OOZE		TR			15	20	38	5		20	2		
62	CALC OOZE		2			16	20	35	10		15	2		

VISUAL CORE DESCRIPTION

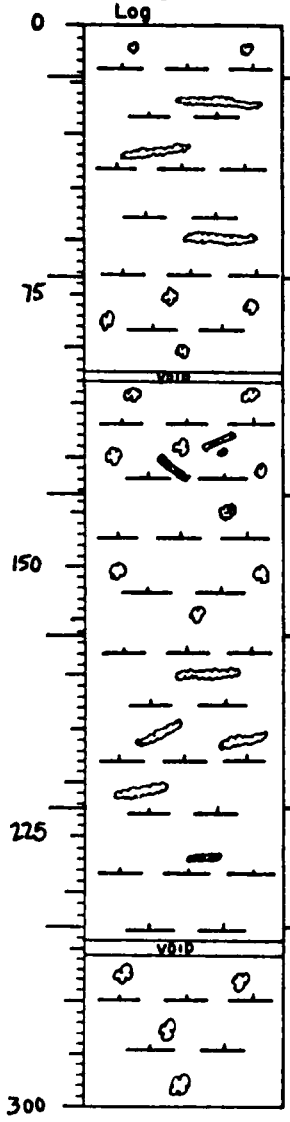
Ship OCE Cruise 205 Leg 2 Sta. NH4 Core No 144 JPC

Total Length 551 cm. Lat. 26°19.76'N Long 77°42.31'W Depth 833 m corr.

Core condition EXCELLENT Date Described 13 NOV. 91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-13
CALC OOZE
10 YR 7/2 light gray
Scattered faint 10 YR 8/2 white mottles
Silty lutite with common forams
Few 10 YR 6/6 brownish yellow features above 7 cm.
S, mottled.

13-70
CALC OOZE
10 YR 8/2.5 white with slight variations in color
Scattered 10 YR 7/2 light gray elongate mottles, most oriented closely with stratification
Silty lutite with abundant forams
G, mottled

70-130
CALC OOZE
10 YR 7.5/2 light gray with variations
Unit is heavily mixed and mottled mainly with 10 YR 7/2 light gray
Silty lutite with common forams
Shrinkage void 97-99 cm.; scattered branch coral fragments noted below 105 cm.
G, mottled.

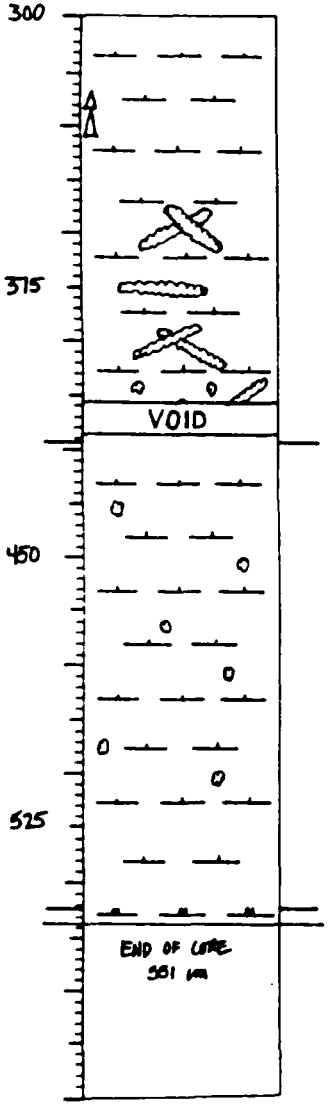
130-169
CALC OOZE
10 YR 8/1 white
Extensively mixed with overlying unit down to 143 cm.; common to extensive 10 YR 7/2 light gray mottling/burrowing elsewhere
Smooth compact lutite with common forams
Common black flecks noted throughout; sandy mottle at 135 cm.
S.

169-217
CALC OOZE
10 YR 8/2 white
Scattered 10 YR 7/2 light gray elongate mottles
Silty lutite with abundant forams and scattered pteropods
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 144 Core No 144 JPC

Lithologic Log



Detailed Description

217-249
CALC OOZE
10 YR 8/2 white
Slightly silty lutite with abundant forams becoming common below 230 cm.
Coral branch noted at 234 cm.
S.

249-418
CALC OOZE
Mainly 10 YR 7/2 but extensively mixed and mottled with lighter and darker shades
Many large burrows intersecting and crossing unit below 333 cm.; also many 10 YR 7/2 mottles evident against lighter matrix
Moist slightly silty lutite with common forams
Two turbidites suspected from 321-333 cm.; sandy moist lutite with possible erosional surface at 326-327 cm.; shrinkage void from 253-257 cm. and from 407-416 cm.
S.

418-547
CALC OOZE
10 YR 8/1 white
Scattered white and 10 YR 7/2 light gray mottles
Silty lutite with abundant forams
Region below 532 cm. heavily mixed with 5Y 5/2 grayish brown lutite
Very S. textural

547-551
NANNO OOZE
Very white
Dry chalky sand, pebble and stone sized material
Abrupt shift to lithified material from overlying unit

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 144 JPC

Expedition 205 Station No. 144

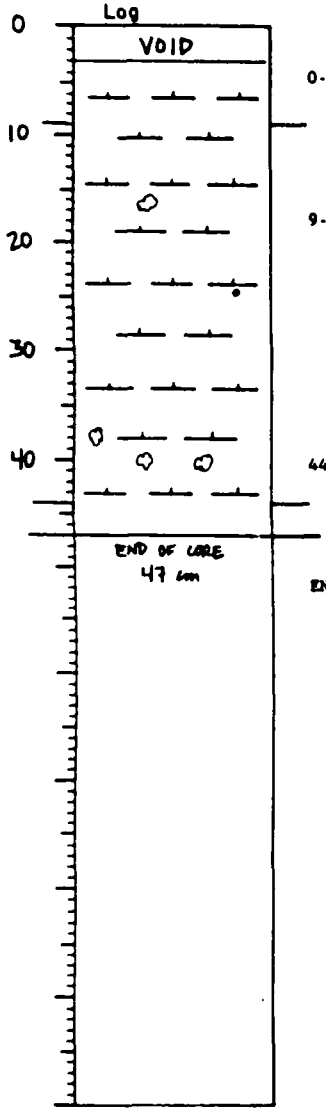
Leg No. 2 Total Core Length 551 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	1			17	15	40	5		20	2		
40	CALC OOZE		TR			20	7	54	4		15			
100	CALC OOZE		TR			15	15	38	5		25	2		
150	CALC OOZE		1			10	8	18	2		60	1		
195	CALC OOZE		1			15	12	48	4		20	TR		
240	CALC OOZE	TR	TR			18	10	45	3		25			
340	CALC OOZE		TR			16	8	55	6		15			
440	CALC OOZE		TR			24	7	55	4		10			
549	NANNO OOZE		TR			5	3	84			8			

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 144 Core No 144 PG
Total Length 47 cm. Lat. 26°13.78' N Long. 77°42.31' W Depth 833 m corr.
Core condition EXCELLENT Date Described 13 NOV. 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-9
CALC OOZE
10 YR 6.5/3 light brownish gray and 10 YR 7/4 very pale brown
Silty lutite with common forams and pteropods
S.

9-44
CALC OOZE
10 YR 8/1 white
Few faint 10 YR 7/1 light gray mottles; common 10 YR 8/3 pale brown mottles below 36 cm.
Silty lutite with common to abundant forams and pteropods
10 YR 7/6 yellow tinged band 9-10 cm.; small 10 YR 4/6 dark yellowish brown feature at 24 cm., micronodule?
G, mottled

44-47
CALC OOZE
10 YR 8/3 very pale brown
Very silty lutite/fine sand with abundant forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 144 PG
Expedition 205 Station No. 144
Leg No. 2 Total Core Length 47 cm

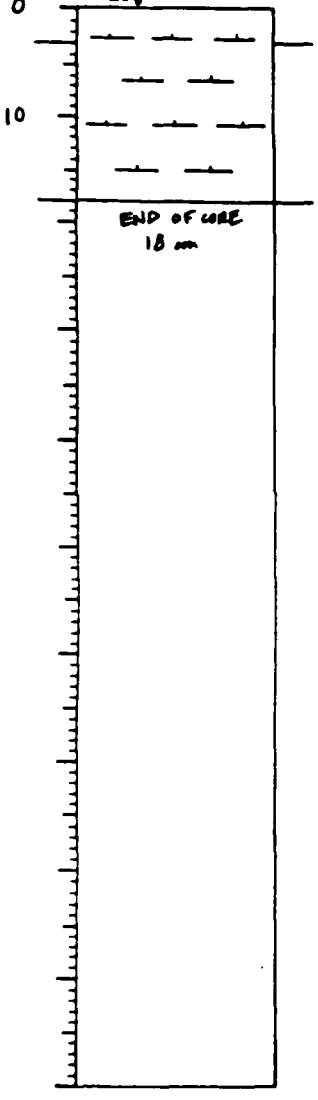
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	2	2			10	20	38	7		20	1		
25	CALC OOZE		1			20	15	43	4		25	2		
46	CALC OOZE		1			12	15	60	2		10	TR		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 145 Core No 145 GGC
Total Length 18 cm. Lat. 26°12.98'N Long. 77°39.59'W Depth 539 m corr.
Core condition EXCELLENT Date Described 2 DEC, 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-3
CALC OOZE
10 YR 7/3 very pale brown
Silty/sandy lutite with abundant forams and pteropods
G.

3-18
CALC OOZE
10 YR 7.5/2 light gray
Silty lutite with common to abundant forams and pteropods

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 145 GGC
Expedition 205 Station No. 145
Leg No. 2 Total Core Length 18 cm

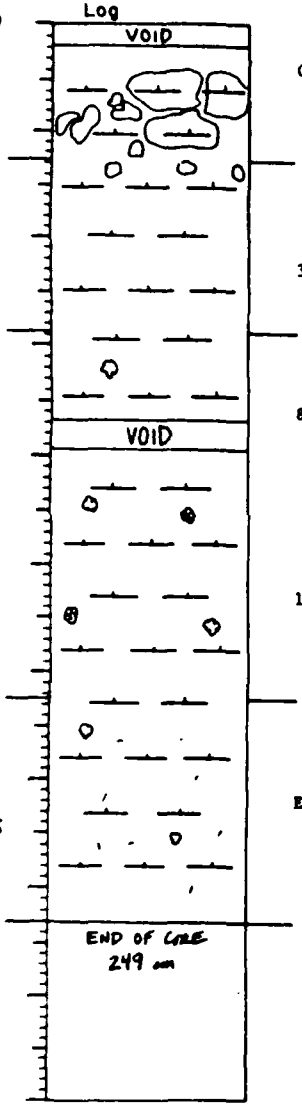
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponge spicules	
1	CALC OOZE		2			8	15	38	10		25	2			
17	CALC OOZE		2			10	20	35	6		25	2			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 146 Core No 146 JPC
Total Length 249 cm. Lat. 26°12.99' N Long. 77°39.60' W Depth 542 m corr.
Core condition GOOD Date Described 21 Nov. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-38
CALC OOZE
10 YR 7.5/2 light gray
Sandy lutite with abundant forams, pteropods and other calcareous material
0-5 cm. shrinkage void; core contains large lithified chunks from 10-37 cm. with some smaller bits down to 45 cm.
G.

38-86
CALC OOZE
10 YR 9/2 white
Very silty/fine sandy lutite
Few calcareous bits above 45 cm.
G.

86-187
CALC OOZE
10 YR 7/2 light gray
Scattered 10 YR 8/2 white mottles, few mottles show pteropod concentrations
Silty lutite with common forams
Shrinkage void 110-118 cm.
G.

187-249
CALC OOZE
10 YR 8/2 white
Scattered black flecks becoming common to abundant below 230 cm.; few 10 YR 7.5/2 light gray mottles scattered throughout
Slightly silty to smooth lutite with scattered forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 146 JPC
Expedition 205 Station No. 146
Leg No. 2 Total Core Length 249 cm

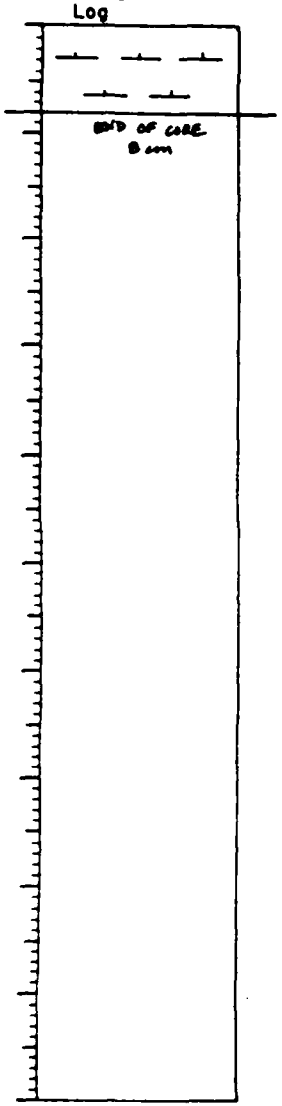
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		1			14	20	30	8		25	2		
65	CALC OOZE		TR			15	25	30	10		20			
140	CALC OOZE		1			19	15	35	5		25			
220	CALC OOZE		TR			6	20	25	4		45			
248	CALC OOZE		1			7	15	25	2		50			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 146 Core No 146 PG
Total Length 8 cm. Lat. 26°12.99' N Long. 77°30.60' W Depth 542 m corr.
Core condition GOOD Date Described 2 DEC. '91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-8

CALC OOZE
10 YR 8/1.5 white
Silty lutite with common to abundant forams
Some pteropods noted

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 146 PG
Expedition 205 Station No. 146
Leg No. 2 Total Core Length 8 cm

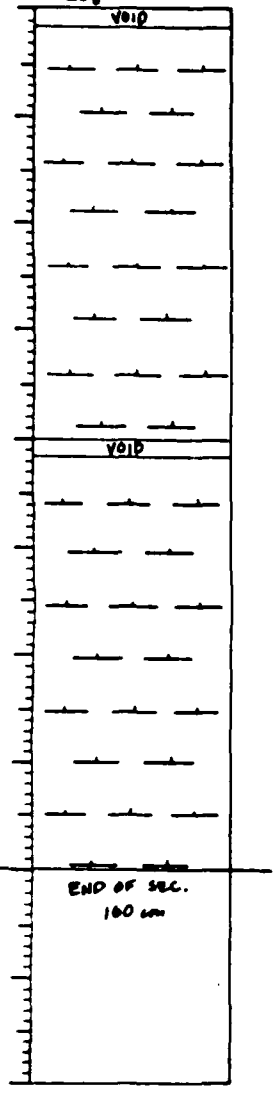
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		1			8	20	36	8		25	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 148 Core No 148 GGC
Total Length 160 cm. Lat. 25°15.27' N Long. 77°40.29' W Depth 434 m corr.
Core condition GOOD Date Described 22 NOV 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-160
CALC OOZE
2.5 Y 7.5/2 light gray with slight color variations
Silty lutite with common forams
0-3 cm. shrinkage void; 80-83 cm. shrinkage void

160-168
160-168 cm. is in storage but remains unsplit

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 148 GGC
Expedition 205 Station No. 148
Leg No. 2 Total Core Length 160 cm

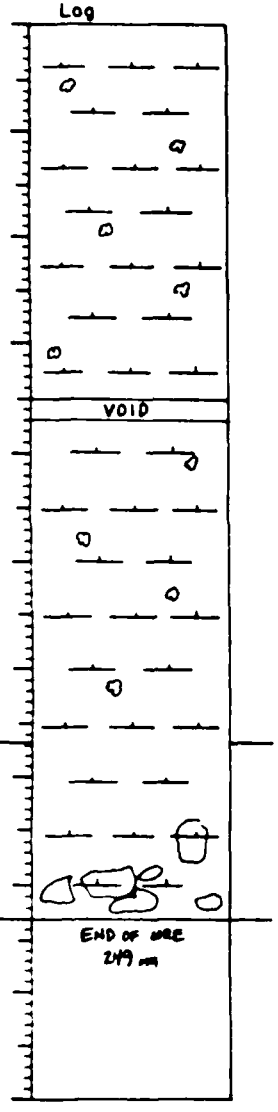
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE	1	TR			5	20	25	8		40	2		
90	CALC OOZE		1			10	15	38	5		30	1		
159	CALC OOZE		1			7	10	40	5		35	2		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. M9 Core No 149 JPC
Total Length 249 cm. Lat. 26°16.40'N Long 77°46.28'W Depth ____
Core condition GOOD Date Described 25 NOV 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-200
CALC OOZE
10 YR 7.5/1.5 light gray
Common 10 YR 8/1 white mottles
Silty lutite with common forams
105-111 cm. shrinkage void
G.

200-249
CALC OOZE
10 YR 7.5/1.5 light gray
Sandy lutite with coral hash
Very similar to overlying unit but with more sand size material and large lithified calcareous material

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

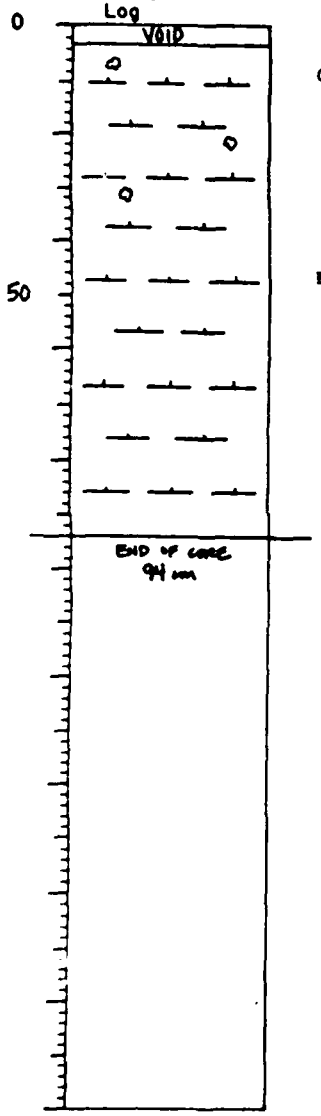
Ship: OCE Core No. 149 JPC
Expedition 205 Station No. 149
Leg No. 2 Total Core Length 249 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		2			14	15	40	7		20	2		
100	CALC OOZE		1			10	12	42	8		25	2		
200	CALC OOZE		2			12	30	15	6		35	TR		
248	CALC OOZE		TR			8	20	37	5		30			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 150 Core No. 150 GGC
Total Length 94 cm. Lat. 26°15.65'N Long. 77°40.29'W Depth ____
Core condition EXCELLENT Date Described 26 NOV 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK
Lithologic Log



Detailed Description

0-94

CALC OOZE
10 YR 7/2 light gray
Scattered faint 10 YR 6.5/2 light gray mottles above 40 cm.: essentially uniform elsewhere
Silty lutite with common forams
0-3 cm. shrinkage void; few preserved burrows below 70 cm.

END OF CORE

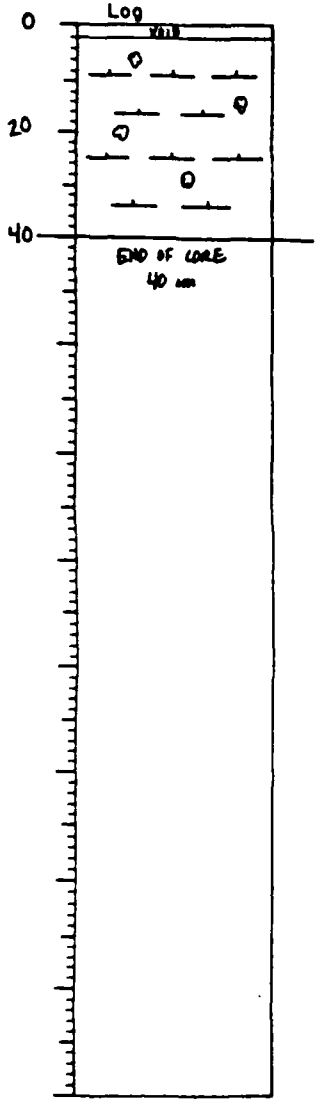
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 150 GGC
Expedition 205 Station No. 150
Leg No. 2 Total Core Length 94 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE		1			8	20	30	8		30	3		
93	CALC OOZE		3			11	10	45	5		25	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 151 Core No 151GGC
Total Length 40 cm. Lat. 26°13.82' N Long. 77°40.34' W Depth 587 m corr.
Core condition EXCELLENT Date Described 26 Nov. '91 by P.MILLS
Physiographic location LITTLE BAHAMA BANK
Lithologic Log



Detailed Description

0-40
CALC OOZE
10 YR 8/1 white
Common 10 YR 7/2 light gray mottles
Silty lutite with common forams
0-2 cm. shrinkage void; scattered pteropods noted throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

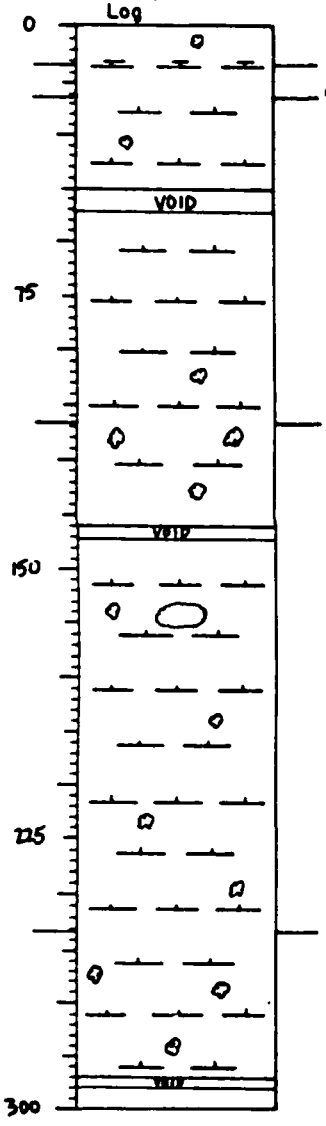
Ship: OCE Core No. 151 GGC
Expedition 205 Station No. 151
Leg No. 2 Total Core Length 40 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE		TR			13	15	45	6		20	1		
39	CALC OOZE		2			12	20	35	5		25	1		

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 152 Core No 152 JPC
Total Length 587 cm. Lat. 26°17.60'N Long. 77°40.25'W Depth 577 m corr
Core condition EXCELLENT Date Described 15NOV91 by P MILLS
Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-10
CALC OOZE
10 YR 8/2.5 very pale brown
Few 10 YR 7/1 light gray mottles
Fine sand, mainly crushed forams
S.

10-19
CALC OOZE
10 YR 7/1 light gray
Dry silty lutite with forams, pteropods and some coral fragments below 17 cm.
G.

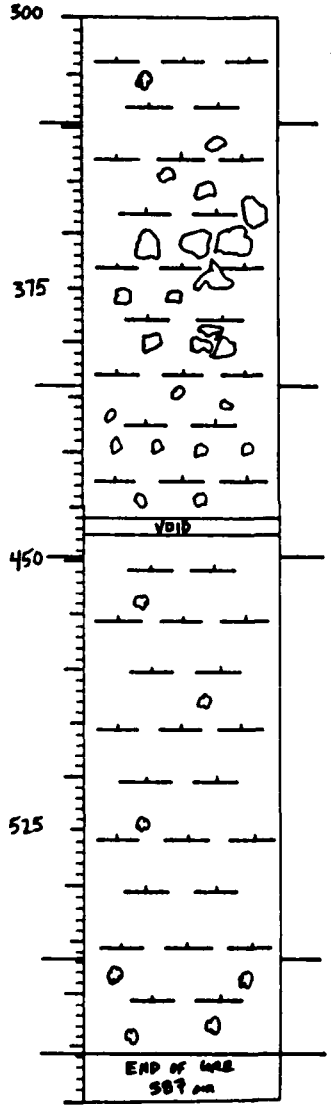
19-110
CALC OOZE
10 YR 8/2.5 very pale brown with faint variations
Few 10 YR 7/1 light gray mottles
Dry silty lutite with abundant forams
Unit contains two regions of lithified sediments and corals at 22-32 cm. and 45-52 cm.; core contains a void at 61-69 cm., no stratigraphy believed missing
S, mottled

110-250
CALC OOZE
10 YR 8/2 very pale brown grading to 2.5Y 7/2 light gray
Common 10 YR 7/2 light gray mottles above 135 cm.; scattered faint 2.5 Y 6/2 light brownish gray mottles below 150 cm.
Silty lutite with scattered forams
Very large lens shaped 10 YR 8/2 white mottles at 160-163 cm.
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta 152 Core No 152 JPC

Lithologic Log



Detailed Description

250-329
CALC OOZE
10 YR 8/1.5 white grading to 10 YR 7.5/2 light gray
Common 2.5 Y 7/2 light gray and 10 YR 7/2 light gray mottles, some with pteropod concentrations
Mostly smooth lutite with scattered forams becoming siltier down core
Scattered micronodules?
G, mottled

329-402
CALC OOZE
10 YR 8/2 white
Silty lutite with many pebble to stone size lithified concretions of corals, carbonate cement, etc.
Unit has appearance of rubble with various size pieces mixed
G.

402-449
CALC OOZE
10 YR 8/2 white
Scattered mottling 2.5Y 7/2 light gray
Silty to fine sandy lutite with smaller bits of material similar to that in overlying unit
Shrinkage void 438-443 cm.
G.

449-560
CALC OOZE
2.5Y 7/2 light gray with faint variations
Few 10 YR 8/2 white mottles
Silty lutite with common forams
G, mottled

560-587
CALC OOZE
10 YR 8/1.5 white
Common 10 YR 7/2 light gray mottles
Silty lutite with some fine sandy regions

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 152 JPC

Expedition 205 Station No. 152

Leg No. 2 Total Core Length 587 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE / FORAM SAND	TR	TR			7	60	18	7		8			
15	CALC OOZE		1			14	15	40	9		20	1		
80	CALC OOZE		TR			14	18	35	8		25			
180	CALC OOZE		TR			10	12	40	8		30	TR		
280	CALC OOZE		TR			10	20	25	5		40			
370	CALC OOZE		TR			15	10	50	5		20			
430	CALC OOZE		1			10	15	44	5		25			
500	CALC OOZE		1			14	20	40	10		15			
586	CALC OOZE		TR			15	15	44	8		18			

VISUAL CORE DESCRIPTION Page 1 of 1

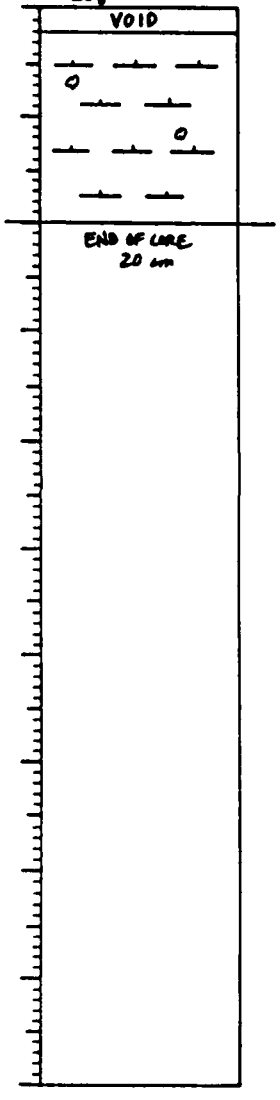
Ship OCE Cruise 205 Leg 2 Sta. 152 Core No 152 PC

Total Length 20 cm. Lat. 26°19.60'N Long. 77°40.25'W Depth 577 m corr.

Core condition EXCELLENT Date Described MAR. '91 by P. MILLS

Physiographic location LITTLE BAHAMA BANK

Lithologic Log



Detailed Description

0-20

CALC OOZE
10 YR 8/1.5 white
Few 10 YR 7/1 light gray mottles
Silty lutite with common to abundant forams and pteropods
0-2 cm. shrinkage void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 152 PG

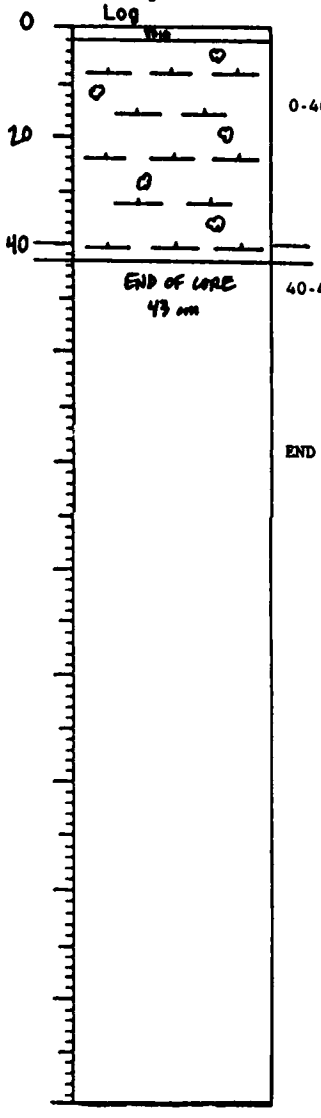
Expedition 205 Station No. 152

Leg No. 2 Total Core Length 20 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		2			10	30	35	5		15	3		
20	CALC OOZE		2			14	20	38	4		20	2		

VISUAL CORE DESCRIPTION Page 1 of 1

Ship OCE Cruise 205 Leg 2 Sta. 153 Core No 153 66C
Total Length 43 cm. Lat. 26°11.69' N Long. 77°42.56' W Depth 1039 m uncr.
Core condition EXCELLENT Date Described 24 NOV 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK



Detailed Description

0-40
CALC OOZE
10 YR 7/2.5 very pale brown
Common 10 YR 7/1 light gray and 10 YR 8/2 white mottles
Silty lutite with common forams
0-2 cm. shrinkage void
G.

40-43
CALC OOZE
10 YR 7/2.5 very pale brown
Firm to semi-lithified sandy lutite with common forams
Small white calcareous lump at base of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 153 GGC

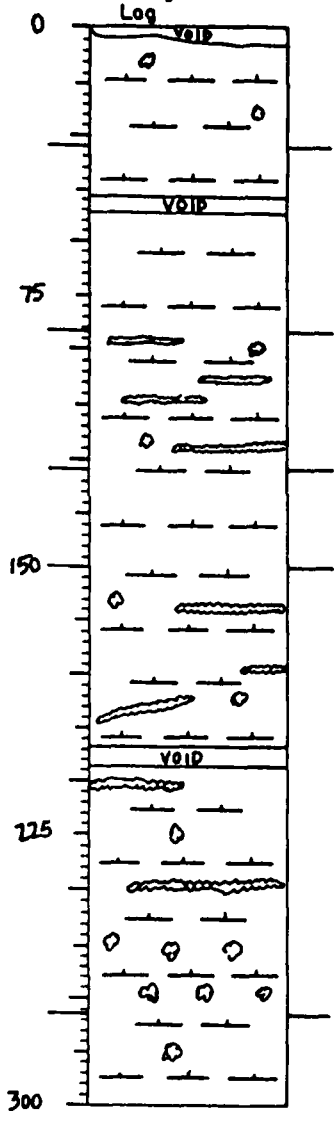
Expedition 205 Station No. 153

Leg No. 2 Total Core Length 43 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	CALC OOZE		3			5	17	35	10		25	5		
42	CALC OOZE		1			9	15	38	9		25	3		

VISUAL CORE DESCRIPTION Page 1 of 2

Ship OCE Cruise 205 Leg 2 Sta. 154 Core No 154 JPC
Total Length 495 cm. Lat. 26°11.56'N Long. 77°42.57'W Depth 1044 m corr.
Core condition GOOD Date Described 21 NOV. 91 by P. MILLS
Physiographic location LITTLE BAHAMA BANK
Lithologic



Detailed Description

0-33
CALC OOZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
Extensive mixing of main colors and scattered black and dark gray mottles
Sandy lutite with abundant forams
S.

33-85
CALC OOZE
10 YR 8/2.5 very pale brown
Sandy lutite with abundant forams
63-66 cm. tinged with 10 YR 7/6 yellow; shrinkage void 47-52 cm.
G.

85-123
CALC OOZE
10 YR 7.5/1 light gray
Common to extensive 10 YR 7/2 light gray mottles and burrows, many parallel to stratigraphy
Silty lutite with common forams
G.

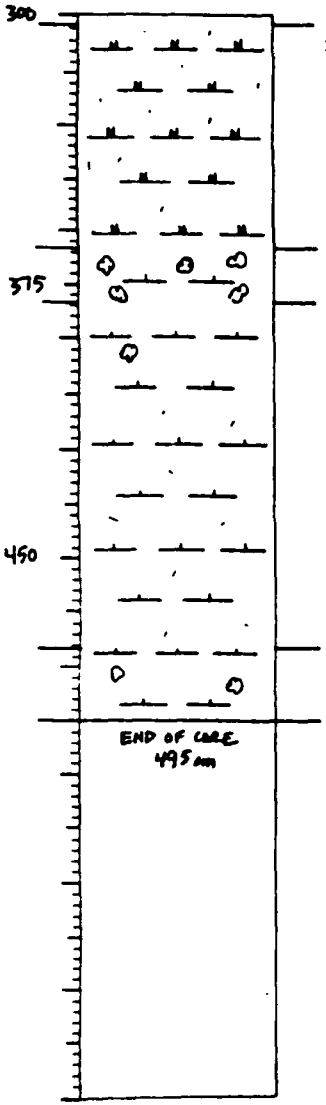
123-150
CALC OOZE
10 YR 8/2 white
Sandy lutite with abundant forams
G.

150-274
CALC OOZE
10 YR 8/1.5 white with some very pale yellow
Common to extensive 10 YR 7/2 light gray mottles and burrows, many parallel to stratification; extensive mottling from 250-260 cm.
Silty lutite with common forams and pteropods becoming more abundant below 240 cm.
Shrinkage void 200-206 cm.
G.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205 Leg 2 Sta. 154 Core No. 154 JPC

Lithologic Log



Detailed Description

274-302
CALC OOZE
10 YR 8/2 white
Common 10 YR 7/2 light gray mottles
Slightly silty lutite with common forams
Black mottles at 282 cm. and 293-294 cm.
G.

302-365
NANNO OOZE
10 YR 8/2 white
Scattered black flecks noted throughout
Silty lutite with common to abundant forams
Shrinkage void 353-356 cm.
S.

365-380
CALC OOZE
10 YR 8/2 white and 2.5Y 5/2 grayish brown
Extensive mottling of main colors
Sandy lutite with abundant forams

380-475
CALC OOZE
10 YR 8/1 white
Few 2.5Y 5/2 grayish brown mottles above 400 cm.; common small black flecks below 400 cm.
Slightly silty lutite with scattered forams
Few horizontally oriented burrows noted
G.

475-495
CALC OOZE
10 YR 7/2 light gray and 10 YR 8/2 white
Common mottling and mixing of main colors
Silty lutite with common forams and pteropods
G.

END OF CORE

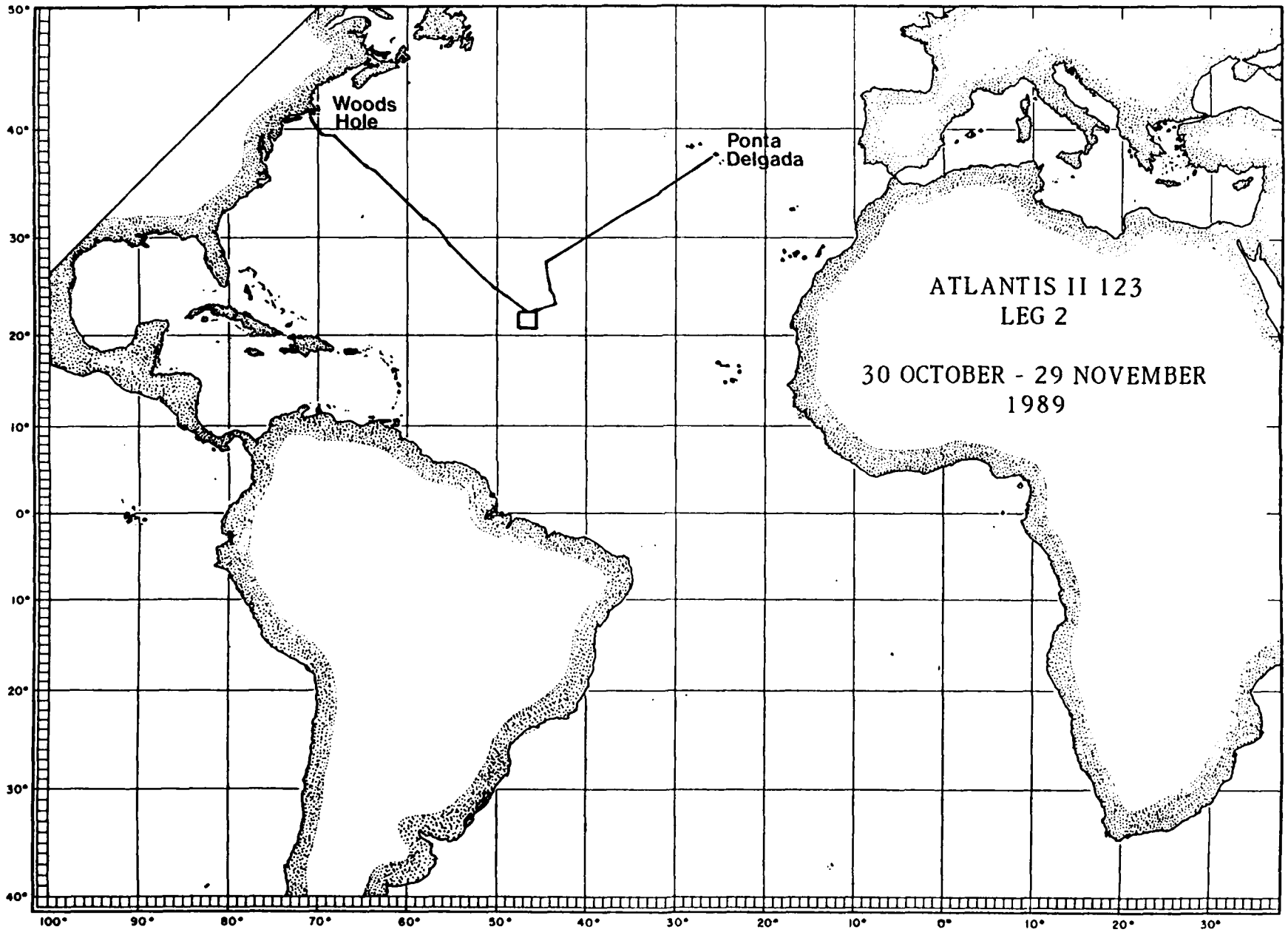
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 154 JPC

Expedition 205 Station No. 154

Leg No. 2 Total Core Length 495 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE		1			10	15	44	8		20	2		
60	CALC OOZE		1			15	20	43	6	TR	15	TR		
110	CALC OOZE		TR			10	15	44	10		20	1		
135	CALC OOZE		1			11	8	60	5		15			
220	CALC OOZE		1			15	10	55	4		15			
290	CALC OOZE		TR			10	9	40	1		40	TR		
330	NANNO OOZE		1			9	8	70			12	TR		
370	CALC OOZE W/ DETRITUS	20				26	4	30			20			
430	CALC OOZE		TR			15	15	55	5		10	TR		
494	CALC OOZE		1			10	8	55	6		20	TR		


Woods Hole
Ponta Delgada
ATLANTIS II 123
LEG 2
30 OCTOBER - 29 NOVEMBER
1989
50°
40°
30°
20°
10°
0°
10°
20°
30°
40°
100°
90°
80°
70°
60°
50°
40°
30°
20°
10°
0°
10°
20°
30°

********** STATION DATA RETRIEVAL **********
********** DATE: 7-DEC-92 10:35 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
AII	123	2	0000	0000	17	8911 2	26 48.9'N	44 42.0'W	9	77.64	0001	0.	1.	0000	15	3300	
AII	123	2	0000	0000	15	8911 5	22 59.0'N	43 30.5'W	11	77.23	0001	4570.	285.	0000	15	3308	
AII	123	2	0000	0000	26	8911 5	22 59.0'N	43 30.5'W	11	77.23	0001	4570.	131.	0000	15	3302	
AII	123	2	0000	0000	15	8911 6	22 57.2'N	43 30.9'W	11	77.23	0002	4570.	0.	0000	15	0000	
AII	123	2	0000	0000	26	8911 6	22 57.2'N	43 30.9'W	11	77.23	0002	4570.	125.	0000	15	3302	
AII	123	2	0000	0000	15	8911 7	22 57.4'N	43 31.1'W	11	77.23	0003	4570.	793.	0000	15	3708	
AII	123	2	0000	0000	26	8911 7	22 57.4'N	43 31.1'W	11	77.23	0003	4570.	128.	0000	15	3302	
AII	123	2	0000	0000	15	8911 8	22 58.5'N	43 30.1'W	11	77.23	0004	4144.	848.	0000	15	3708	
AII	123	2	0000	0000	26	8911 8	22 58.5'N	43 30.1'W	11	77.23	0004	4144.	109.	0000	15	3728	
AII	123	2	0000	0000	15	8911 9	22 55.8'N	43 31.8'W	11	77.23	0005	4523.	669.	0000	15	3708	
AII	123	2	0000	0000	26	8911 9	22 55.8'N	43 31.8'W	11	77.23	0005	4523.	123.	0000	15	3322	
AII	123	2	0000	0000	15	891112	22 46.0'N	46 6.5'W	11	77.26	0006	4603.	584.	0000	15	3708	
AII	123	2	0000	0000	26	891112	22 46.0'N	46 6.5'W	11	77.26	0006	4603.	134.	0000	15	3738	
AII	123	2	0000	0000	15	891113	22 46.8'N	46 6.7'W	11	77.26	0007	4571.	773.	0000	15	3708	
AII	123	2	0000	0000	26	891113	22 46.8'N	46 6.7'W	11	77.26	0007	4571.	133.	0000	15	3702	
AII	123	2	0000	0000	15	891115	22 46.8'N	46 6.8'W	11	77.26	0008	4624.	1140.	0000	15	3708	
AII	123	2	0000	0000	26	891115	22 46.8'N	46 6.8'W	11	77.26	0008	4624.	130.	0000	15	3708	
AII	123	2	0000	0000	15	891116	22 45.2'N	46 6.5'W	11	77.26	0009	4607.	1116.	0000	15	3708	
AII	123	2	0000	0000	26	891116	22 45.2'N	46 6.5'W	11	77.26	0009	4607.	122.	0000	15	3732	
AII	123	2	0000	0000	15	891119	22 3.6'N	46 34.1'W	9	77.26	0010	4498.	1093.	0000	15	3708	
AII	123	2	0000	0000	26	891119	22 3.6'N	46 34.1'W	9	77.26	0010	4498.	131.	0000	15	3352	
AII	123	2	0000	0000	15	891120	22 1.9'N	46 34.9'W	9	77.26	0011	4523.	1130.	0000	15	3708	
AII	123	2	0000	0000	26	891120	22 1.9'N	46 34.9'W	9	77.26	0011	4523.	135.	0000	15	3308	
AII	123	2	0000	0000	15	891121	22 3.5'N	46 34.6'W	9	77.26	0012	4646.	705.	0000	15	3708	
AII	123	2	0000	0000	26	891121	22 3.5'N	46 34.6'W	9	77.26	0012	4646.	133.	0000	15	3308	

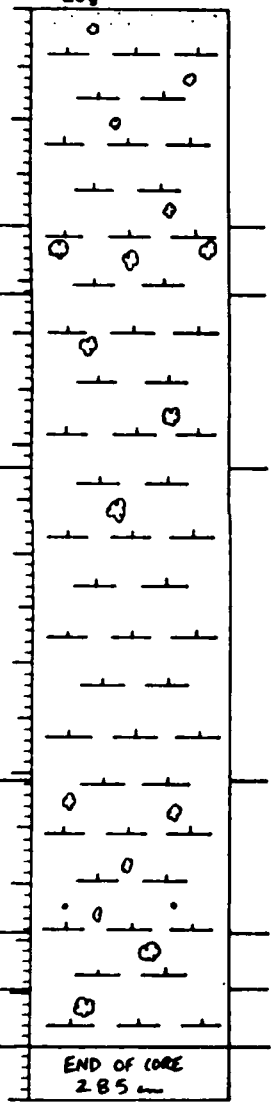
THERE WERE 25 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 1 PC
Total Length 285 cm. Lat. 22°59.6'N Long. 43°30.50'W Depth 4570 m corr.
Core condition EXCELLENT Date Described 22 Aug. 1980 by P. MILLS
Physiographic location SEDIMENT POND - M.A.R.

Lithologic Log



Detailed Description

0-60
CALC OOZE
10 YR 6/4 light yellowish brown
Very faint 10 YR 7/3 very pale brown mottling
Moist lutite with common forams
0-4 cm. turbidite? Very moist
G, Mottled.

60-79
CALC OOZE
10 YR 5/4 yellowish brown
Common 10 YR 6/4 light yellowish brown
Slightly silty lutite with common forams
Higher foram content in mottles
G, Mottled

79-126
CALC OOZE
10 YR 6/4 light yellowish brown
Scattered 10 YR 5/4 yellowish brown and 10 YR 7/3 very pale brown mottles.
Moist lutite with abundant forams
G, Mottled.

126-212
CALC OOZE
10 YR 7/3 very pale brown
Scattered 10 YR 6/4 mottles above 150 cm.
Slightly silty lutite; few forams in mottled regions

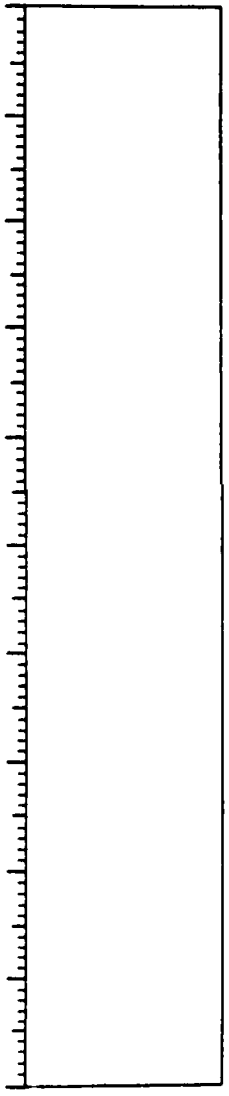
212-253
CALC OOZE
10 YR 5/6 yellowish brown
Faint 10 YR 5/3 brown mottles throughout
Slightly silty lutite with common forams
Few micronodules below 240 cm.
S, mottled.

253-269
CALC OOZE
10 YR 6/4 light yellowish brown
Scattered 10 YR 5/4 yellowish brown mottling
Slightly silty lutite with common forams
G, mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta — Core No 1 PC

Lithologic Log



Detailed Description

269-285
CALC OOZE
10 YR 5/4 and 10 YR 7/3
Scattered mottling with intercalation
Slightly silty lutite with scattered forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 1 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 285 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	2			37	4	50		4	3			
25	CALC OOZE	1	3			32	15	45		2	2			
70	CALC OOZE	TR	2			55	2	38		1	2			
100	CALC OOZE	1	2			38	8	45		1	5			
160	CALC OOZE		TR			37	1	50		10	2			
230	CALC OOZE	TR	3			38	10	45		2	2			
260	CALC OOZE	1	3			35	4	50		5	2			
284	CALC OOZE	TR	2			29	3	55		10	1			

VISUAL CORE DESCRIPTION Page 1 of 1

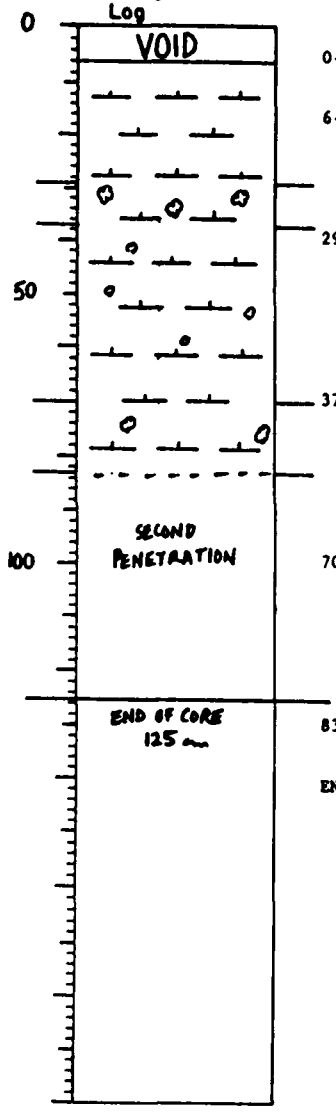
Ship AII Cruise 123 Leg 2 Sta. — Core No 1 PC

Total Length 125 cm. Lat. 22°59.0'N Long. 43°30.50'W Depth 4578 m corr.

Core condition EXCELLENT Date Described 22 AUG 1990 by P. MILLS

Physiographic location SEDIMENT POND - M.A.R.

Lithologic Log



Detailed Description

0-6
VOID - PORE WATER CHEM. SAMPLE

6-29
CALC OOZE
10 YR 6/4 light yellowish brown
Abundant forams in slightly silty lutite
G, mottled.

29-37
CALC OOZE
10 YR 5/4 yellowish brown
Common 10 YR 6/4 mottling
Slightly silty lutite with common forams
Foram content higher in mottled areas
G, mottled.

37-70
CALC OOZE
10 YR 6/4 light yellowish brown
Faint mottling 10 YR 5/4 with few 10 YR 7/4 very pale brown mottles
Slightly silty lutite with abundant forams grading to common below 65 cm.

70-83
CALC OOZE
10 YR 7/4 very pale brown
Scattered 10 YR 6/4 mottles
Slightly silty lutite with few forams
Foram content higher in mottles
S.

83-125
Second penetration

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 1 PG

Expedition 123 Station No. ____

Leg No. 2 Total Core Length 125 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	CALC OOZE	TR	2			42	5	50		TR	1			
20	CALC OOZE	TR	1			35	7	55		TR	2			
33	CALC OOZE	TR	1			55	3	38		1	2			
53	CALC OOZE	TR	2			45	15	36		1	2			
77	CALC OOZE	1	1			3+	1	50		10	3			

VISUAL CORE DESCRIPTION

Page 1 of 1

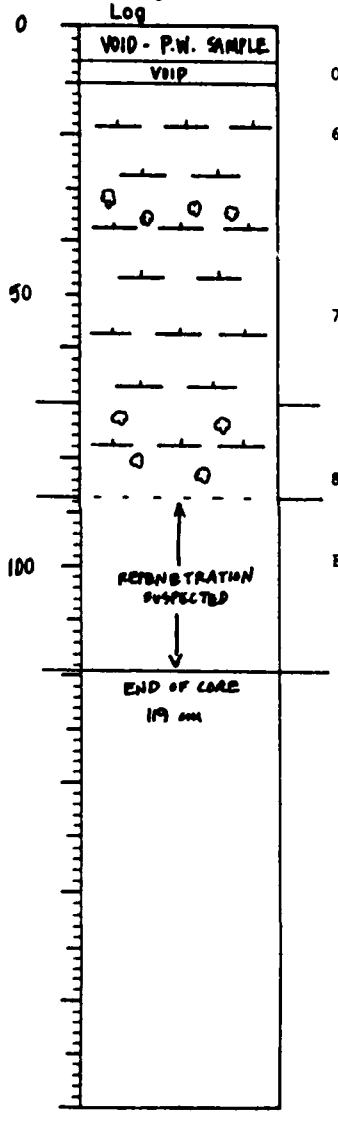
Ship AII Cruise 123 Leg 2 Sta. — Core No 2PG

Total Length 119 cm. Lat. 22°57.18'N Long. 43°30.93'W Depth 4425 m

Core condition EXCELLENT Date Described 3JAN, 92 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-6
Whole core sampled for pore water

6-70
CALC OOZE
7.5 YR 6/5 light brown
Mottling and mixing with 7.5 YR 5/4 brown from 30-40 cm.
Slightly silty lutite with common forams
Shrinkage void 6-10 cm.
G, mottled

70-87
CALC OOZE
10 YR 7/4 very pale brown
Common 7.5 YR 6/5 light brown mottles containing forams
Smooth firm lutite
S, irregular

87-119
SUSPECTED REPENETRATION

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 2 PG

Expedition 123 Station No. _____

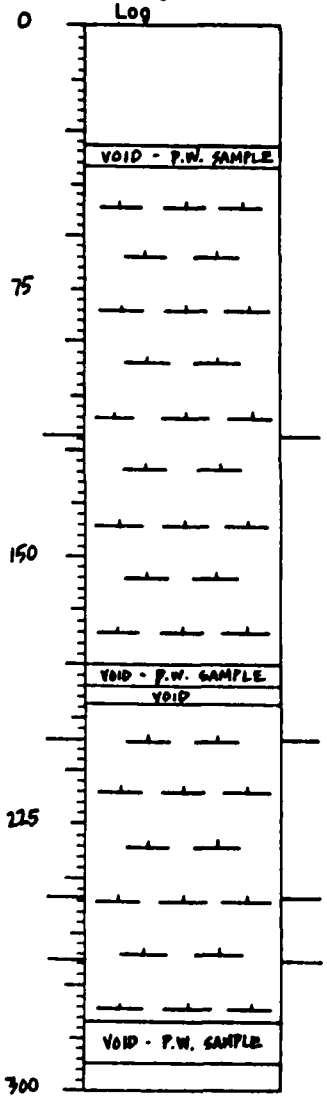
Leg No. 2 Total Core Length 119 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE	TR	5			19	7	65		1	3			
50	CALC OOZE	1	6			27	9	50		2	5			
82	CALC OOZE	TR	3			15	4	61		9	8			

VISUAL CORE DESCRIPTION Page 1 of 3

Ship AII Cruise 123 Leg 2 Sta. — Core No 3PC
Total Length 793 cm. Lat. 22°67.44'N Long. 43°31.09'W Depth 4425 m
Core condition GOOD Date Described 26 DEC, 91 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description.

0-34
Sec 6 missing

34-40
Whole core sampled for pore water

40-116
CALC OOZE
7.5 YR 5/5 brown with faint variations especially above 55 cm. where it is lighter
Extensively mixed and mottled from 56-67 cm.; elsewhere scattered 7.5 YR 5/4 brown mottles
Slightly silty lutite with common forams
G, mottled

116-201
CALC OOZE
10 YR 7/4 very pale brown
Common 7.5 YR 5/5 brown mottles above 140 cm.
Smooth firm lutite with few to no forams except below 194 cm. where unit becomes a fine silt
Sampling void 180-186 cm.; shrinkage void 186-191 cm.; few silty laminations noted from 168 to 173 cm.
Very S.

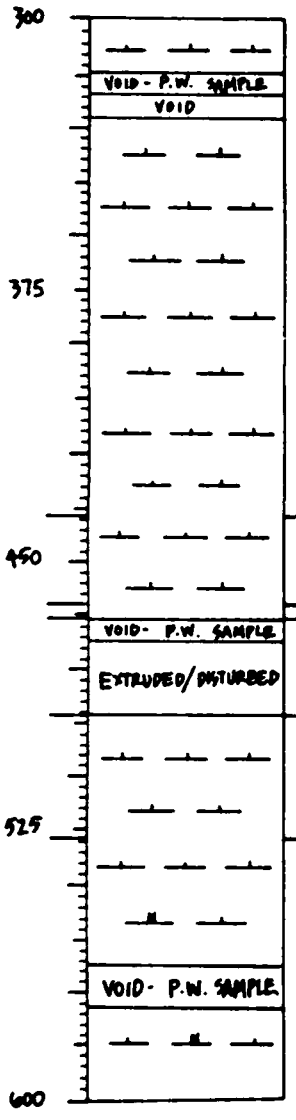
201-245
CALC OOZE
7.5 YR 5/5 brown
Common but faint mottling slightly lighter than overall color
Slightly silty lutite with common forams
Few micronodules noted; thin silty lamination at 218 cm.
G, mottled.

245-263
CALC OOZE
8.75 YR 6/6 brown
Scattered to common 10 YR 7/4 very pale brown mottling below 256 cm.
Slightly silty lutite with forams grading from common to scattered
G, mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 3PC

Lithologic Log



Detailed Description

263-437
CALC OOZE
10 YR 6.5/5 pale yellowish brown
Extensive mixing with overlying unit above 275 cm.
Slightly silty lutite with forams ranging from scattered to few below 375 cm.
Scattered pockets of fine foram sand appear from 330-378 cm.; scattered thin dark brown laminae noted below 380 cm.; basal contact grades into a foram sand turbidite; sampling voids 280-292 cm. and 314-320 cm.; shrinkage void 320-327 cm.
G.

437-462
CALC OOZE / FORAM SAND
10 YR 7/4 very pale brown
Graded foram sand turbidite
Silty material is mixed with lutite above 441 cm.
S.

462-466
CALC OOZE
10 YR 6/4 light yellowish brown
Silty lutite with common forams
Unit ends either in sampled or extruded region

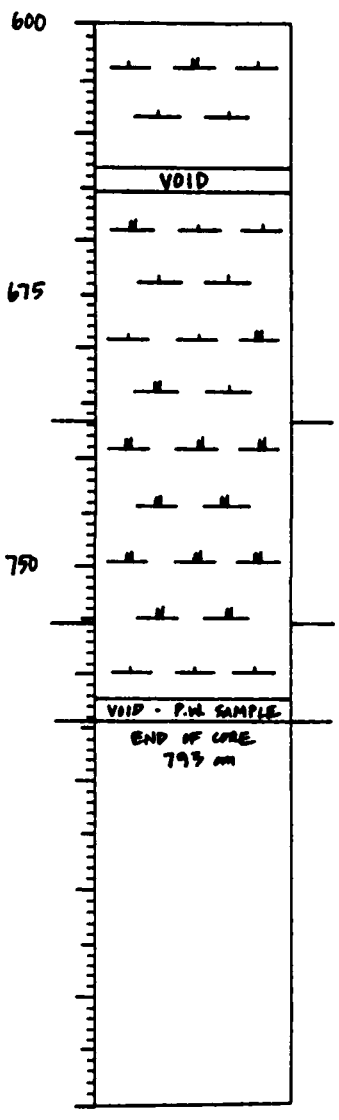
466-493
466-472 cm. sampled for pore water
472-493 cm. extruded/disturbed

493-527
CALC OOZE
10 YR 6.5/4 light yellowish brown
Common 10 YR 6/4 light yellowish brown
Slightly silty lutite with few forams
Two foram silt/sand layers at unit base
Very S, irregular

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 3PC

Lithologic Log



Detailed Description

527-710
CALC/NANNO OOZES
10 YR 6/4 light yellowish brown and 8.75 YR 5/6 strong brown appearing alternately as the main color
Common to extensive mixing and mottling of main colors especially below 620 cm.
Foram sand lenses showing concave down distortion and sharp contacts at 547-560 cm., 562-574 cm. sampled for pore water; 640-646 cm. shrinkage void
G, mottled.

710-766
NANNO OOZE
10 YR 7/4 very pale brown
Few large 10 YR 5/4 yellowish brown mottles above 725 cm.
Slightly silty lutite
S.

766-793
CALC OOZE
10 YR 6.5/4 light yellowish brown
Few 10 YR 7/4 very pale brown mottles
Slightly silty lutite with scattered forams
787-793 cm. sampled for pore water

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 3 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 793 cm

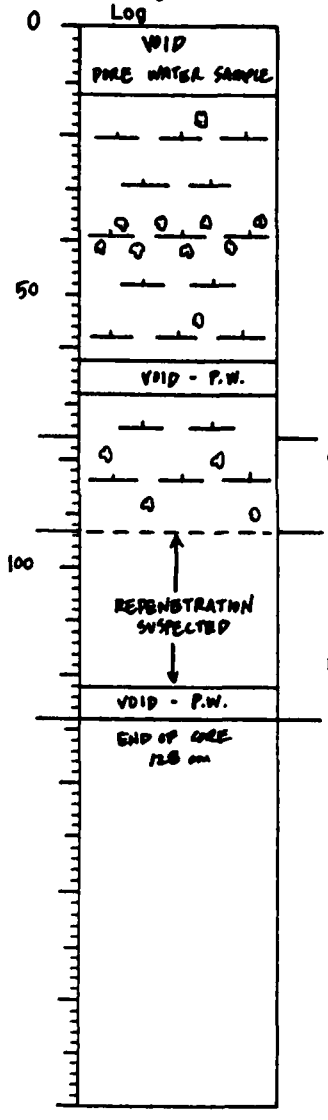
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
50	CALC OOZE	TR	6			18	8	65	TR	1	2			
160	CALC OOZE	2	3			11	4	60		15	5			
220	CALC OOZE	1	6			23	10	55		2	3			
305	CALC OOZE	TR	4			10	3	63		10	10			
420	CALC OOZE	1	4			15	7	53		12	8			
455	CALC OOZE		2			10	55	24		4	5			
540	CALC OOZE	TR	6			9	5	60		15	5			
690	NANNO OOZE	TR	8			15	3	70		1	3			
740	NANNO OOZE	TR	2			8	6	78		1	5			
785	CALC OOZE	1	9			34	8	40		3	5			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship AII Cruise 123 Leg 2 Sta. — Core No 3 PC
Total Length 128 cm. Lat. 22°57.44'N Long. 43°31.09'W Depth 4425 m
Core condition GOOD Date Described 26 DEC, 91 by P. MILLS
Physiographic location SEDIMENT POND - MID ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Whole core squeezed for pore water

12-76
CALC OOZE
7.5 YR 5/5 brown
Extensive 7.5 YR 5/4 brown mottling from 37-44 cm.; scattered lighter mottling elsewhere
Slightly silty lutite with common forams
Sampling void; 62-68 cm. squeezed for pore water
G, mottled.

76-93
CALC OOZE
8.75 YR 6/4 light brown
Common 7.5 YR 5/5 brown mottles
Smooth firm lutite with few forams
Very S.

93-122
CALC OOZE
Similar to 12-76 cm. unit
Suspected repenetration

122-128
Whole core squeezed for pore water

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 3 PG

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 128 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
25	CALC OOZE		8			6	10	71		2	3				
88	CALC OOZE		5			4	2	70		15	4				

VISUAL CORE DESCRIPTION Page 1 of 3

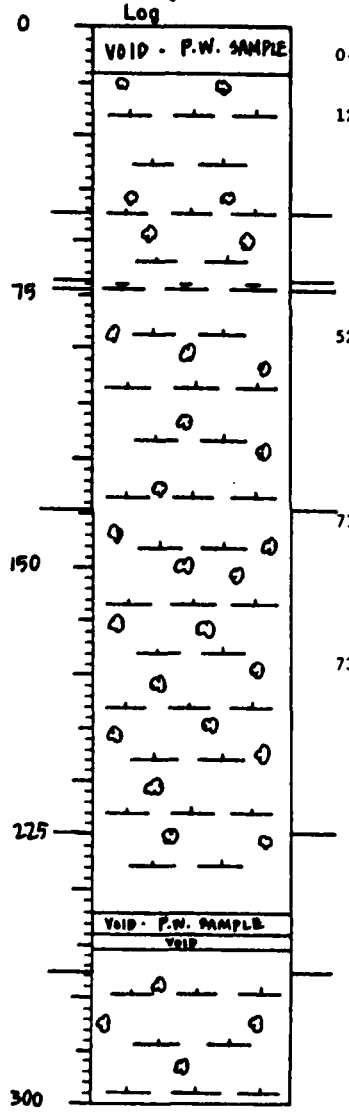
Ship AII Cruise 123 Leg 2 Sta. — Core No 4PC

Total Length 848 cm. Lat. 22°58.53'N Long. 43°30.06'W Depth 4410 m

Core condition GOOD Date Described 6 JAN '92 by P.MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Whole core sampled for pore water

12-52
CALC OOZE
8.75 YR 5/6 strong brown becoming slightly lighter down section
Common 7.5 YR 4.5/4 brown mottling above 20 cm.; scattered 10 YR 6.5/4 pale brown mottles below 46 cm.
Silty lutite with common to abundant forams
30-36 cm. sampled for pore water
G, mottled.

52-71
CALC OOZE
10 YR 7.4 pale brown
Common 10 YR 6/4 light yellowish brown mottles containing some forams
Smooth lutite becoming silt to fine sand below 66 cm.
S, irregular

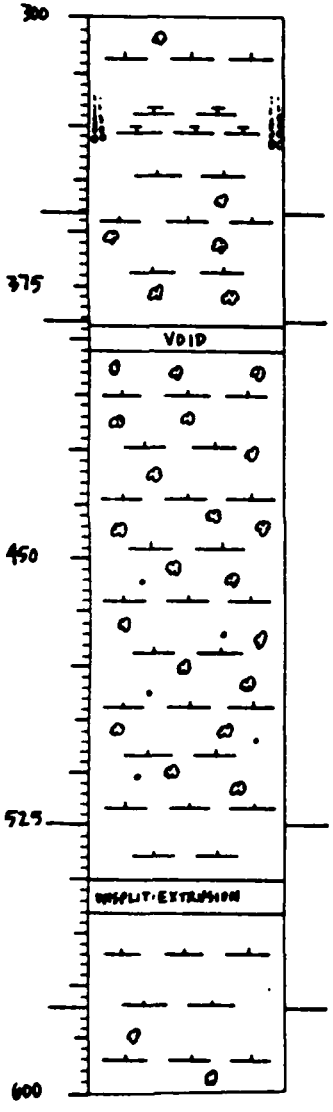
71-73
FORAM SAND
10 YR 7.5/4 very pale brown
Fine foram sand
Very S.

73-134
CALC OOZE
8.75 YR 5/4 brown grading to 8.75 YR 6/4 light brown
Scattered to common mottling and mixing of main colors from 85-120 cm.; few 10 YR 7/4 pale brown mottles below 125 cm.
Slightly silty lutite with common forams
Void 99-105 cm. pore water sample
G, mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 4PC

Lithologic Log



Detailed Description

134-225
CALC OOZE
10 YR 6.5/4 light brown and 8.75 YR 5/6 strong brown
Entire unit heavily mixed and mottled with major colors alternatively dominant
Slightly silty lutite with scattered forams
Amorphous foram sand inclusion from 145-150 cm.
S, mottled

225-263
NANNO OOZE
10 YR 7/4 very pale brown
Common 10 YR 6/4 light yellowish brown mottles above 230 cm., homogeneous elsewhere
Dry slightly silty lutite with few forams
246-252 cm. sampled for pore water; 252-256 cm. shrinkage void
Very G.

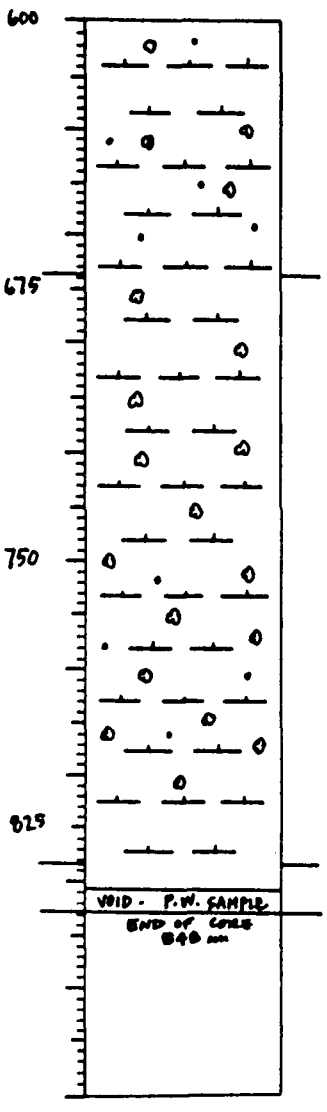
263-355
CALC OOZE
8.75 YR 6/6 brown becoming slightly lighter down section
Common 8.75 YR 5/6 brown and 10 YR 7/4 very pale brown mottles becoming widely scattered below 295 cm.
Slightly silty lutite with common forams except abundant from 295-308 cm.
Large foram sand layer from 322-335 cm. showing wavy bedding features
Very G.

355-385
CALC OOZE
10 YR 6.5/4 light brown and 8.75 YR 5/4 brown
Main colors alternate on a 5-10 cm. scale and show common to extensive mottling and mixing
Smooth lutite with few forams
Obscure, heavily mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 4PC

Lithologic Log



Detailed Description

385-525
CALC OOZE
10 YR 6.5/4 predominates with some 8.75 YR 6/6 yellowish brown
Common to extensive mottling and mixing of main colors
Slightly silty lutite with forams ranging from scattered to common
Shrinkage void 386-393 cm.; scattered micronodules noted below 450 cm.
S, irregular

525-576
CALC OOZE
10 YR 7/4 very pale brown
Dry lutite with few forams
540-549 cm. pre-extrusion; reinserted into small liner, remains unsplit
Very G

576-671
CALC OOZE
8.75 YR 5/4 brown
Scattered to common 8.75 YR 5/6 brown and 10 YR 6/4 light yellowish brown mottling
Slightly silty lutite with scattered to common forams
Scattered micronodules becoming more common below 630 cm.
G.

671-835
CALC OOZE
Mainly 10 YR 6/4 light yellowish brown with some color variations
Entire unit shows common mottling and mixing of main colors
Slightly silty lutite with common forams
Scattered micronodules noted from 750-815 cm.
S.

835-848
CALC OOZE
10 YR 7/4 very pale brown
Slightly silty lutite with scattered forams
842-848 cm. sampled for pore water

END OF CORE

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 4 PC

Expedition 123 Station No. ____

Leg No. 2 Total Core Length 848 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13	CALC OOZE	2	8			24	9	48		2	7			
65	CALC OOZE	1	3			21	8	55	1	8	5			
110	CALC OOZE	3	7			27	7	50	TR	2	4			
190	CALC OOZE	TR	6			10	2	75		1	6			
240	CALC OOZE	TR	3			10	6	76		1	4			
315	CALC OOZE	2	5			28	10	45		2	8			
420	CALC OOZE	1	6			12	3	73		1	4			
500	CALC OOZE	2	7			17	8	60		1	5			
565	CALC OOZE	2	3			15	7	66		1	6			
630	CALC OOZE	2	6			28	6	48		2	8			
730	CALC OOZE	5	8			32	3	45		2	5			
840	CALC OOZE	3	4			25	2	42		15	9			

VISUAL CORE DESCRIPTION

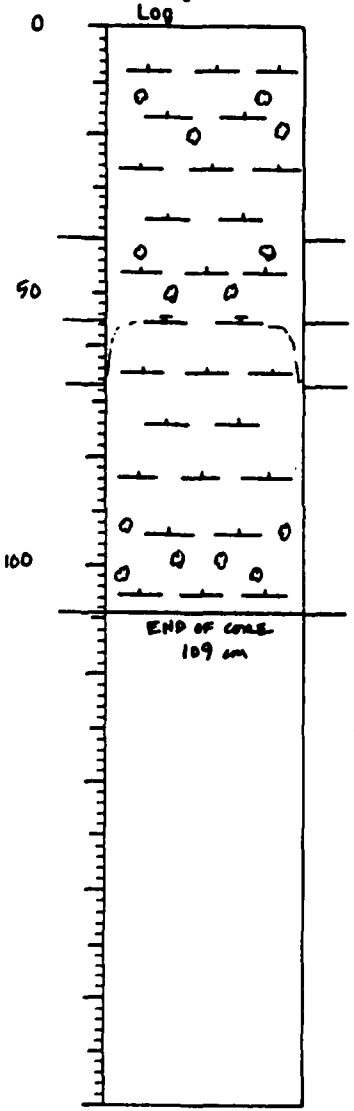
Ship AII Cruise 123 Leg 2 Sta. — Core No 4PC

Total Length 109 cm. Lat. 22°58.53'N Long. 43°36.06'W Depth 4410 m

Core condition EXCELLENT Date Described 3 JAN. '92 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-40
CALC OOZE
7.5 YR 6/5 light brown
Common 7.5 YR 5/4 mottles from 10-22 cm.
Slightly silty lutite with common forams
G, mottled

40-55
CALC OOZE
10 YR 7/4 very pale brown
Common 7.5 YR 6/5 light brown mottles
Smooth lutite becoming fine calc. silt below 48 cm.
Fine sand at base of unit is dragged down along edges of liner to 66 cm.
Very S.

55-67
CALC OOZE
8.75 YR 5/6 strong brown
Slightly silty lutite with common to abundant forams
S.

67-109
CALC OOZE
7.5 YR 6/5 light brown
Common to extensive 7.5 YR 5/4 brown mottles below 90 cm.; few elsewhere
Slightly silty lutite with common forams

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. A PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 109 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC OOZE	1	6			21	10	55		2	5			
50	CALC OOZE	TR	3			20	10	53		10	4			
60	CALC OOZE	1	7			20	15	50	TR	1	6			
108	CALC OOZE	2	4			36	7	45		2	4			

VISUAL CORE DESCRIPTION

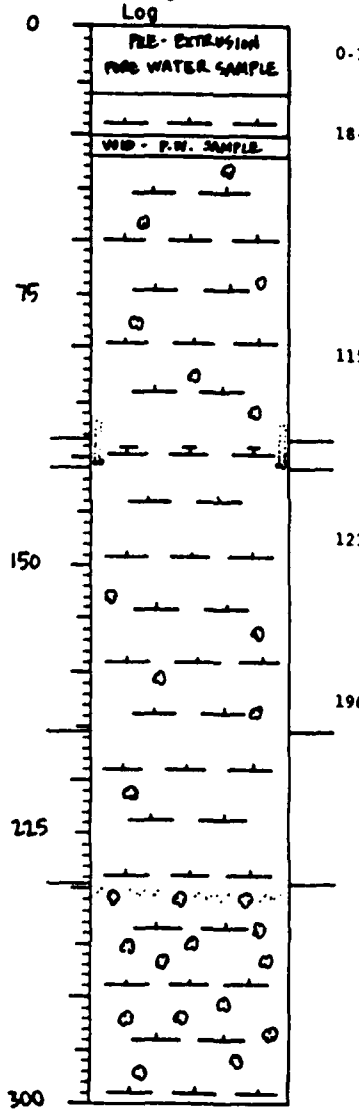
Ship AII Cruise 123 Leg 2 Sta. - Core No 5PC

Total Length 645 cm. Lat. 22°55.81'N Long. 43°31.84'W Depth 4380 m

Core condition GOOD Date Described 8 JAN, 92 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-18
Pre-extrusion; sample squeezed for pore water analysis

18-115
CALC OOZE
8.75 YR 6/4 light brown
Scattered to common 8.75 YR 5/6 strong brown mottles; common 10 YR 7/4 very pale brown mottles below 105 cm.
Slightly silty lutite with common forams
30-36 cm. sampled for pore water; unit increases in calcareous silt content below 105 cm.
G.

115-123
FORAM SAND
7.5 YR 8/2 pinkish white
Scattered 10 YR 6/4 light yellowish brown inclusions
Fine foram sand
Some wavy bedding structures noted; turbidity flow
S.

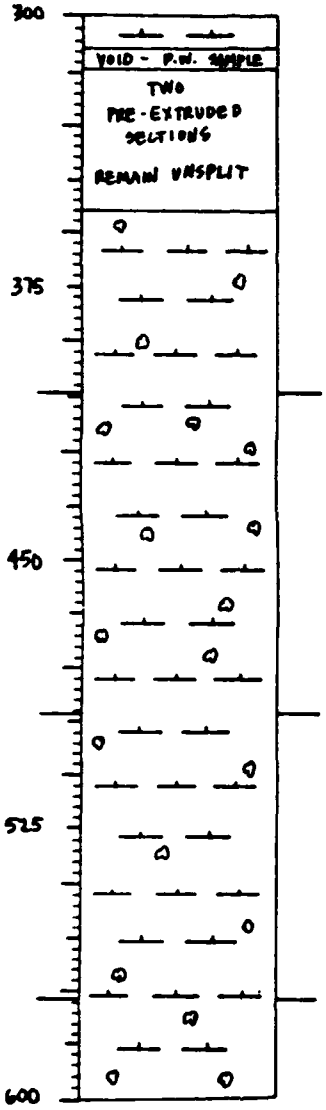
123-196
CALC OOZE
8.75 YR 5/6 strong brown becoming slightly lighter below 160 cm.
Scattered to common strong brown mottles noted below 160 cm.
Slightly silty lutite with common forams
S.

196-239
CALC OOZE
10 YR 6/4 light yellowish brown
Few 10 YR 5/4 yellowish brown mottles
Slightly silty lutite with common to abundant forams
S. mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No. 5PC

Lithologic Log



Detailed Description

239-308
CALC OOZE
Main colors are 10 YR 7/3 very pale brown and 10 YR 5.5/4 yellowish brown
Entire unit is heavily mixed and mottled and shows regions of increased foram concentration
Silty lutite with common to abundant forams
Some calcareous silt layers and inclusions noted especially 241-243 cm.

308-314
Void - sample squeezed for pore water analysis

314-354
Two 20 cm. sections pre-extruded and disturbed; these remain unsplit

354-404
CALC OOZE
10 YR 5.5/5 yellowish brown
Scattered 10 YR 5/4 yellowish brown mottles
Slightly silty lutite with abundant forams
G.

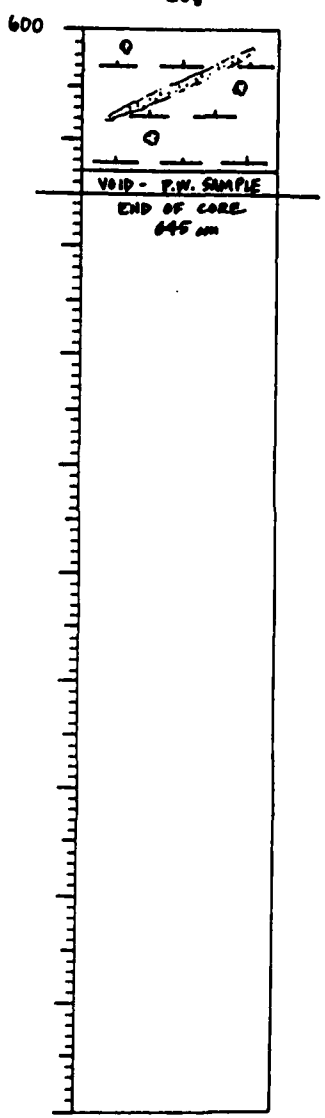
404-493
CALC OOZE
Predominantly 10 YR 6.5/4 light yellowish brown
Common mottling and mixing with 10 YR 5.5/5 yellowish brown and few small 10 YR 8/4 very pale brown mottles
Silty lutite with abundant forams
G.

493-572
CALC OOZE
10 YR 6/4 light yellowish brown
Scattered mottling as above
Silty lutite with common forams
Very similar to overlying unit but with appearance of fewer forams
G, mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 5 PC

Lithologic Log



Detailed Description

572-639
CALC OOZE
Mainly 10 YR 6/4 light yellowish brown
Common 10 YR 5/5 yellowish brown and 10 YR 7/4 very pale brown mottles
Silty lutite with abundant forams
Long foram filled burrow from 611-623 cm.

639-645
Sampled for pore water

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A11 Core No. 5 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 645 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
19	CALC OOZE	2	7			18	10	56	TR	1	6			
100	CALC OOZE	3	7			20	15	47	TR	4	4			
160	CALC OOZE	2	9			30	7	42		3	7			
220	CALC OOZE	1	6			33	7	45		3	5			
300	CALC OOZE	1	7			18	6	60		2	6			
420	CALC OOZE	1	4			23	10	55		1	6			
540	CALC OOZE	1	4			20	8	62		1	4			
638	CALC OOZE	1	5			15	12	60		2	5			

VISUAL CORE DESCRIPTION

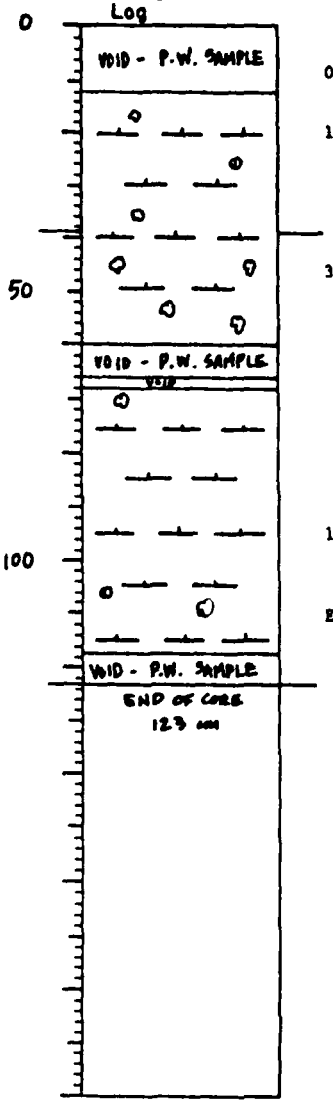
Ship A11 Cruise 123 Leg 2 Sta. _____ Core No 5PC

Total Length 123 cm. Lat. 22°55.81'N Long. 44°31.84'W Depth 4380 m

Core condition GOOD Date Described 8JAN.92 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description.

0-12
Whole core sampled for pore water

12-39
CALC OOZE
10 YR 6.5/4 light yellowish brown
Scattered small 10 YR 7/4 very pale brown mottles
Slightly silty lutite with common forams
G.

39-117
CALC OOZE
8.75 YR 6/4 light brown
Common to extensive mottling and mixing with 8.75 YR 5/4 strong brown and 10 YR 7/4 very pale brown except for the interval 77-104 cm. where there is sparse mottling
Slightly silty lutite with forams ranging from common to more abundant below 50 cm., also very abundant below 108 cm.
60-66 cm. sampled for pore water; 66-68 cm. shrinkage void

117-123
Whole core sampled for pore water

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 5 PG

Expedition 123 Station No. _____

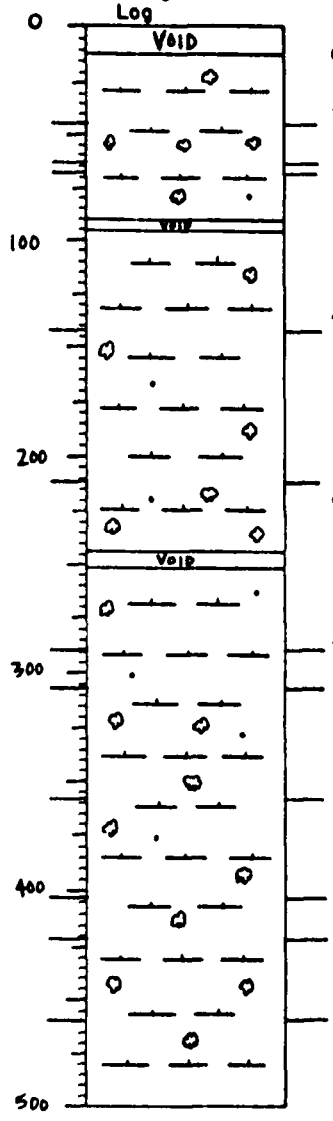
Leg No. 2 Total Core Length 123 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12	CALC OOZE	1	7			20	20	45		1	6			
70	CALC OOZE	2	8			20	15	46		2	7			
116	CALC OOZE	4	8			25	10	44	TR	2	7			

VISUAL CORE DESCRIPTION Page 1 of 5

Ship AII Cruise 123 Leg 2 Sta. — Core No 6 PC
Total Length 854 cm. Lat. 22°45.98'N Long. 46°06.50'W Depth 4603 m uncr.
Core condition EXCELLENT Date Described 10 JAN 90 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Sampling void (S.V.)

12-44
CALC OOZE
7.5 YR 5/4 brown
Faint 7.5 YR 6/4 mottling 12-18 cm.; few 7.5 YR 6/6 reddish yellow mottles 36-40 cm.
Slightly silty lutite with common forams throughout
S. V. 30-36 cm.
G, mottled

44-64
CALC OOZE
7.5 YR 4/4 dark brown grading to 7.5 YR 5/4 brown
Extensive mottling with 7.5 YR 5/4 brown
Slightly silty lutite with scattered forams grading to very silty lutite
Large 7.5 YR 4/4 dark brown burrow from 60-62 cm.
G.

64-67
CALC OOZE
7.5 YR 7/4 pink
No mottling
Well graded foram sand bed
S, textured

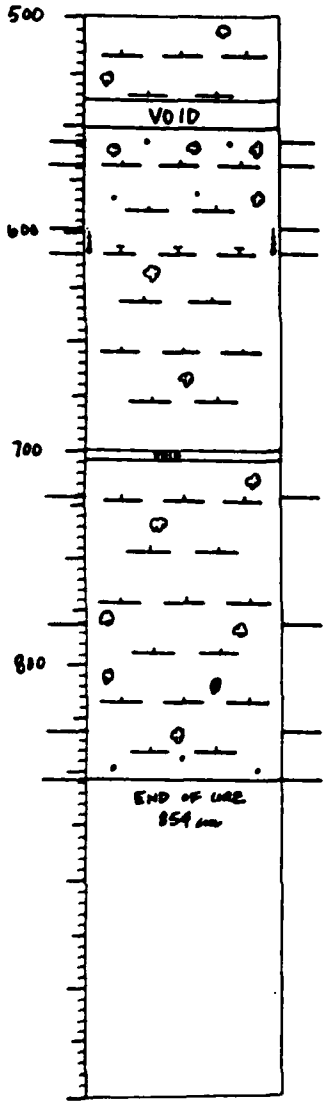
67-142
CALC OOZE
7.5 YR 5/4 brown
Very faint 7.5 YR 4/4 dark brown mottling scattered throughout; few 7.5 YR 7/6 reddish yellow mottles 135-140 cm.
Slightly silty lutite with common forams becoming abundant from 97-105 cm.
Large 7.5 YR 4/4 burrow 81-83 cm.; sampling void 90-96 cm.; few micronodules
G, mottled

VISUAL CORE DESCRIPTION

Page 2 of 5

Ship AII Cruise 123 Leg 2 Sta. — Core No 6PC

Lithologic Log



Detailed Description

142-212
CALC OOZE
7.5 YR 6/4 light brown grading to 7.5 YR 7/4 pink from 208-212 cm.
Very faint 7.5 YR 4/4 mottling from 142-163 cm.
Very smooth lutite with widely scattered pockets of forams
Few widely scattered micronodules
S, convex upward

212-289
CALC OOZE
7.5 YR 4/4 dark brown grading to 7.5 YR 5/4 brown
Extensive mottling with intercalation of major colors becoming faint below 259 cm.
Slightly silty lutite with common forams throughout
Common micronodules; large 7.5 YR 4/4 dark brown burrow 235-237 cm.
G, mottled

289-307
CALC OOZE
7.5 YR 5.4 brown grading to 7.5 YR 4/4 dark brown
Extensive mottling and intercalation of major colors
Smooth lutite with scattered forams
S. V. 243-249 cm.; shrinkage void 249-251 cm.; several large manganese micronodules
S, mottled

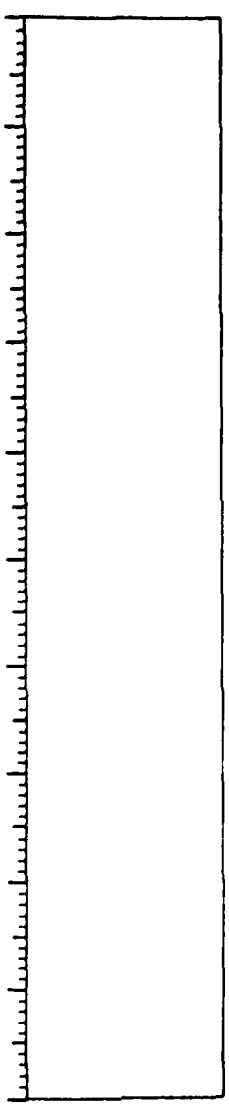
307-358
CALC OOZE
7.5 YR 6/4 light brown grading to 7.5 YR 5/4 brown; back to 7.5 YR 6/4 at 340 cm.
Extensive 7.5 YR 6/4 and 7.5 YR 4/4 mottling and intercalation
Silty lutite with common forams throughout
Large 7.5 YR 4/4 dark brown at 341 cm.; scattered manganese micronodules
G.

VISUAL CORE DESCRIPTION

Page 3 of 5

Ship AII Cruise 123 Leg 2 Sta. — Core No 6PC

Lithologic Log



Detailed Description

358-403
CALC OOZE
7.5 YR 5/4 brown grading to 7.5 YR 4/4 dark brown below 370 cm.
Common mottling of major colors throughout
Slightly silty lutite with scattered forams
Large 7.5 YR 4/4 dark brown burrow at 394 cm.; scattered micronodules below 371 cm.
S, mottled

403-421
CALC OOZE
7.5 YR 6/4 light brown
Scattered 7.5 YR 4/4 dark brown mottling
Silty lutite with common forams
Large 7.5 YR 4/4 dark brown burrow 407-408 cm.
G.

421-460
CALC OOZE
7.5 YR 5/4 brown grading to 7.5 YR 4/4 dark brown
Common 7.5 YR 6/4 mottling becoming 7.5 YR 5/4 brown
Slightly silty lutite with scattered forams
Large 7.5 YR 5/4 brown burrow 445 cm.
S, mottled

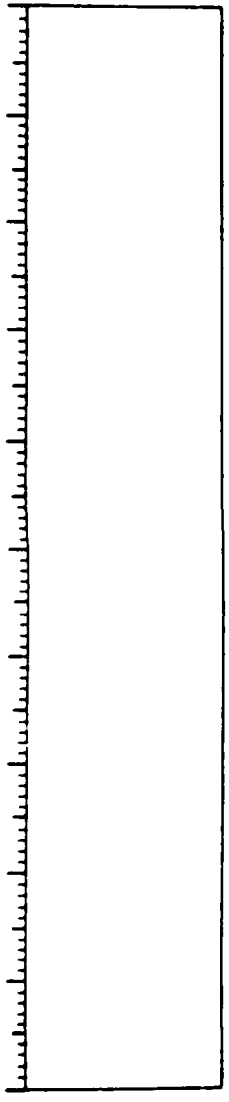
460-557
CALC OOZE
10 YR 7/4 very pale brown grading to 7.5 YR 5/4 brown
Faint mottling of major colors throughout
Silty lutite with common forams becoming extensive from 493-520 cm.
Very few micronodules at base of unit; shrinkage void 549-551 cm.; sampling void 537-549 cm.
S, mottled

557-569
CALC OOZE
7.5 YR 5/4 brown
Extensive 7.5 YR 4/4 dark brown mottling
Slightly silty lutite with scattered forams
Scattered micronodules throughout
G, mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 6PC

Lithologic Log



Detailed Description

569-599
CALC OOZE
7.5 YR 6/4 light brown
Faint 7.5 YR 5/4 brown mottling throughout
Smooth lutite with few to no forams grading to very silty at base of unit
Few micronodules
S, color

599-610
CALC OOZE
10 YR 7/4 very pale brown
No mottling
Crushed forams grading pure foram sand
Well graded foram sand bed; few 7.5 YR 5/4 brown striations
S, convex upward

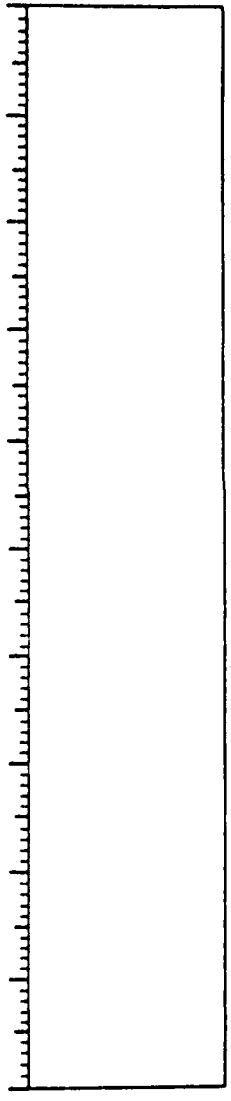
610-721
CALC OOZE
7.5 YR 5/4 brown
Very faint mottling becoming 7.5 YR 4/4 dark brown from 705-721 cm.
Slightly silty lutite with common forams throughout
Sampling void 702-703 cm.
S, mottled

721-781
CALC OOZE
7.5 YR 6/4 light brown except 7.5 YR 5/4 brown from 745-760 cm.
Faint 7.5 YR 5/4 brown mottling throughout
Silty lutite with abundant forams except common from 745-760 cm.
Large 7.5 YR 4/4 dark brown burrow 726-729 cm.
G.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 6PC

Lithologic Log



Detailed Description

781-831
CALC OOZE
7.5 YR 6/4 light brown grading to 10 YR 7/4 very pale brown
Faint 7.5 YR 5/4 brown mottling except no mottling from 821-831 cm.
Smooth lutite with few forams grading to foram sand below 817 cm.
Few foram sand layers interbedded with lutite from 817-821 cm.
S, convex upward

831-854
CALC OOZE
7.5 YR 5/4 brown
Common 7.5 YR 4/4 dark brown mottling throughout
Slightly silty lutite with common forams
Common micronodules

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 6 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 854 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
12	CALC OOZE		3			30	15	50		2	TR			
25	CALC OOZE		2			50	8	39		TR	1			
55	CALC OOZE		8			55	5	30		2	TR			
66	CALC OOZE		2			26	50	20		1	1			
110	CALC OOZE		5			39	5	50		1	--			
180	CALC OOZE		6			50	9	30		4	1			
225	CALC OOZE		10			40	5	43		1	1			
270	CALC OOZE		3			23	8	60		1	TR			
300	CALC OOZE		8			25	5	60		1	1			
335	CALC OOZE		10			21	2	65		2	--			
380	CALC OOZE		7			45	1	45		1	1			
410	CALC OOZE		3			36	3	55		2	1			
445	CALC OOZE		4			60	2	32		1	1			
490	CALC OOZE		4			32	7	55		2	TR			
565	CALC OOZE		3			40	2	29		15	1			
585	CALC OOZE		3			55	3	24		15	TR			
603	CALC OOZE		2			8	60	14		8	8			
680	CALC OOZE		2			60	15	23		TR	1			

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 6 PC

Expedition 123 Station No. _____

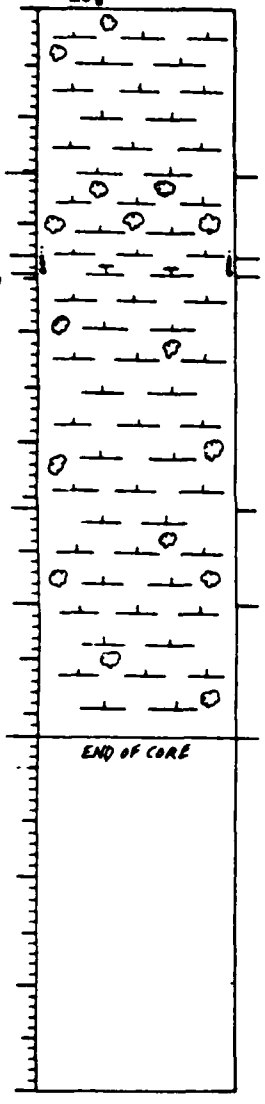
Leg No. 2 Total Core Length 854 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
765	CALC OOZE		1			60	4	33		2	TR			
810	CALC OOZE		2			50	3	30		15	--			
853	CALC OOZE		5			65	5	20		3	2			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. _____ Core No. 6 PG
Total Length 134 cm. Lat. 22° 45.90'N Long. 45°06.50W Depth 4607 m corr.
Core condition EXCELLENT Date Described 9 JAN 1990 by P. MILLS
Physiographic location SEDIMENT POND MID ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-31
CALC OOZE
7.5 YR 5/4 Brown
Faint 7.5 YR 6/4 light brown mottling from 0 - 10 cm
Silty lutite with common forams
G, mottled

31-46
CALC OOZE
7.5 YR 4/6 strong brown grading to 7.5 YR 5/4 brown
7.5 YR 5/4 brown extensive mottling with intercalation of major colors.
Slightly silty lutite with scattered forams
Large 7.5 YR 4/6 burrow at 42 cm.
S

46-49
FORAM SAND
7.5 YR 6/4 light brown
Well graded foram sand
S

49-92
CALC OOZE
7.5 YR 5/4 brown
Widely scattered 7.5 YR 4/6 strong brown mottling from 55 - 60 cm; very faint elsewhere
Slightly silty lutite with common forams throughout.
Contact is convex downward between 90-93 cm.
S

92-110
CALC OOZE
7.5 YR 6/4 light brown
Few 10 YR 5/3 brown mottles 92-94 cm. scattered 7.5 YR 5/4 brown mottling throughout
Silty lutite with common forams becoming abundant from 97-101 cm.
S, mottled.

110-134
CALC OOZE
7.5 YR 5/4 brown
Few 7.5 YR 6/4 light brown mottles
Slightly silty lutite with common forams
Large triangular void from 129-132 cm, left by core catcher

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

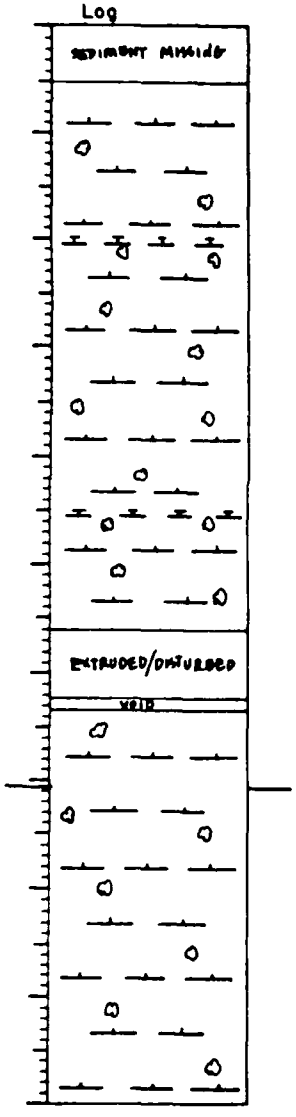
Ship: AII Core No. 6 PG
Expedition 123 Station No. _____
Leg No. 2 Total Core Length 134 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE		3			35	10	50		2	TR			
20	CALC OOZE		4			44	8	43		1	TR			
40	CALC OOZE		6			58	4	30		2	TR			
48	FORAM SAND		1			2	80	17		TR				
70	CALC OOZE		5			48	15	30		1	1			
105	CALC OOZE		3			36	10	50		1	TR			
120	CALC OOZE		4			30	15	50		1	TR			
131	CALC OOZE		2			45	8	44		1	TR			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 7PC
Total Length 773 cm. Lat. 22°46.83'N Long. 46°06.72'W Depth ~4430 m
Core condition GOOD Date Described 9JAN92 by P MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-15
Section Missing

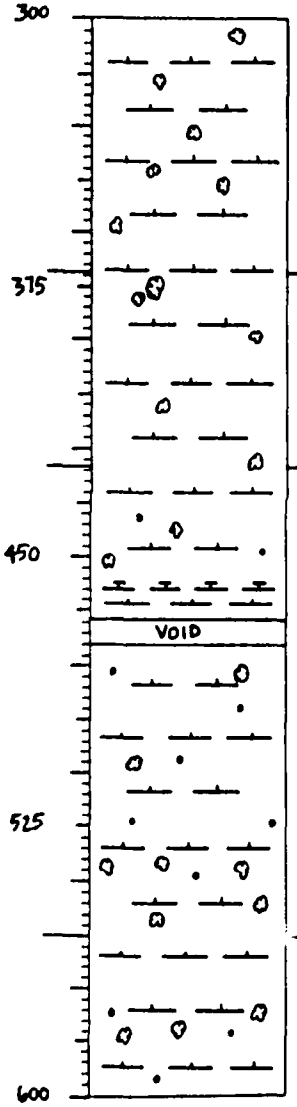
15-212
CALC OOZE
10 YR 6/5 light yellowish brown except 8.75 YR 5/4 brown from 46-58 cm.; faint color changes noted elsewhere
Scattered to common mottling noted in vicinity of color changes; faint mottling detectable elsewhere
Slightly silty lutite with common forams
Thin foram sand layers noted at 61 cm. and 137 cm.; 168-187 cm. extruded and disturbed; 187-190 cm. shrinkage void
G, mottled

212-371
CALC OOZE
8.75 YR 5/5 brown alternating with 10 YR 7/4 very pale brown on 20-30 cm. scales
Common to extensive mottling throughout unit
Smooth to slightly silty lutite with scattered to common forams
Very pale brown predominates from 225-280 cm. and from 320-335 cm.; color transitions are gradual; 314-317 cm. shrinkage void
S, mottled

371-425
CALC OOZE
10 YR 7.5/4 very pale brown
Scattered 10 YR 6/4 light yellowish brown mottles
Slightly silty lutite with common to abundant forams
Three large 8.75 YR 5/5 brown mottles above 380 cm.
Very G.

Ship AII Cruise 123 Leg 2 Sta — Core No 7PC

Lithologic Log



Detailed Description

425-555
CALC OOZE
Predominantly 10 YR 6/5 light yellowish brown with faint color variations
Common mottling and mixing of main colors especially from 440-455 cm. and below 535 cm. where color change is most pronounced
Slightly silty lutite with common forams
Shrinkage void 467-474 cm.; foram sand layer 458-460 cm.; micronodules common
G, mottled

555-609
CALC OOZE
10 YR 6.5/4 light yellowish brown
Common to extensive mottling noted; especially evident from 573-590 cm. where main color is slightly darker
Slightly silty lutite with common forams
Scattered micronodules noted especially from 575-590 cm.
G.

609-629
CALC OOZE
10 YR 7/4 very pale brown and 10 YR 8/3 very pale brown
Few mottles containing forams above 620 cm.
Fine calc. silt grading to foram sand down core
Turbidite; 620-624 cm. void, sediment extruded
Very S.

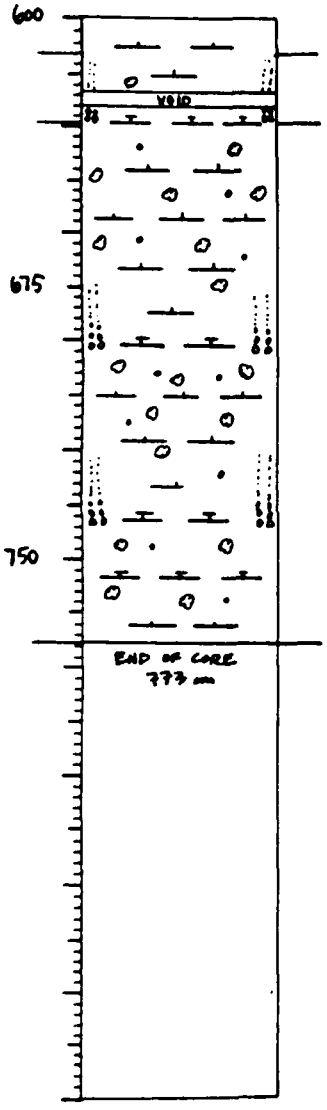
629-773
CALC OOZE
Mainly 10 YR 5/5 yellowish brown
Entire unit is heavily mixed and mottled and is interrupted by two more turbidites like that described above
Slightly silty lutite with common forams and micronodules
Turbidites occur from 675-693 cm. and from 722-740 cm.; third small turbidite at 755 cm.

END OF CORE

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 7PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 7 PC

Expedition 123 Station No. ____

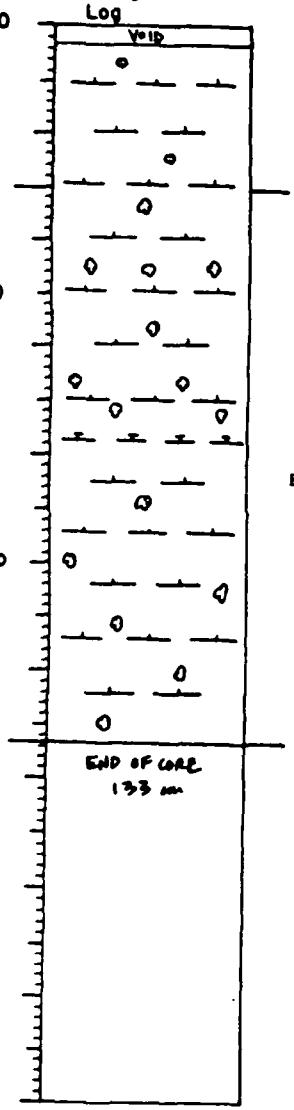
Leg No. 2 Total Core Length 773 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
16	CALC OOZE	2	4			20	10	55		4	5			
110	CALC OOZE	1	5			31	15	40		2	6			
220	CALC OOZE	2	4			15	5	70		1	3			
265	NANNO OOZE	TR	3			10	4	80		1	2			
365	CALC OOZE	1	7			17	8	60		3	4			
390	CALC OOZE	1	3			12	9	70		1	4			
490	CALC OOZE	1	8			25	17	40		3	6			
570	CALC OOZE	TR	5			31	8	50		2	4			
650	CALC OOZE	3	12			30	8	38		4	5			
770	CALC OOZE	2	7			20	7	58		2	4			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 7PG
Total Length 133 cm. Lat. 22°46.83'N Long. 46°06.72'W Depth ~4470 m
Core condition EXCELLENT Date Described 9 Jul, 92 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-30
CALC OOZE
10 YR 6/5 light yellowish brown but slightly darker below 25 cm.
Few 10 YR 7/4 very pale brown mottles; some sandy
Slightly silty lutite with common forams
0-3 cm. shrinkage void
S.

30-133
CALC OOZE
10 YR 6/5 light yellowish brown but slightly darker from 65-75 cm.
Scattered to common 10 YR 7/4 and 5/4 yellowish brown mottles; most evident from 42-50 cm. and from 65-75 cm.
Slightly silty lutite with common forams
Thin foram sand layer at 76-77 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

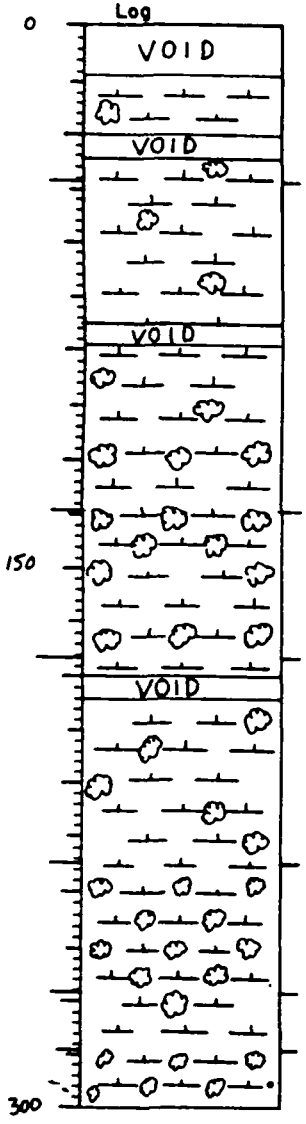
Ship: AII Core No. 7 PG
Expedition 123 Station No. _____
Leg No. 2 Total Core Length 133 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	TR	8			15	20	50		3	4			
50	CALC OOZE	1	10			25	15	44		1	4			
130	CALC OOZE	2	9			25	12	45		1	6			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No BPC
Total Length 1134 cm. Lat. 22° 48.84'N Long. 46° 06.81'W Depth 4475 m
Core condition EXCELLENT Date Described 24 NOV. 1989 by I. BAUSA / P. MILLS
Physiographic location SEDIMENT POND MID ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12 Sampling Void

12-42
CALC OOZE
7.5 YR 5/4 brown
Very faint mottling throughout with 7.5 YR 6/4 light brown
Lutite with few forams; grades to very silty lutite
Sampling (S.V.) 30-36 cm.
S, Tex. with 1/2 cm break in core.

42-134
CALC OOZE
7.5 YR 5/4 brown grades to 7.5 YR 6/4 light brown
Scattered mottling becomes more common at unit base with intercalation of major colors
Slightly silty lutite with scattered forams
S.V. 80-86 cm.
S, mottled.

134-174
CALC OOZE
7.5 YR 4/4 dark brown grades to 7.5 YR 5/4 brown and back to 4/4 dark brown
Extensive mottling with 7.5 YR 6/4 light brown except in the zone 151-164 where it is scattered.
Slightly silty lutite with scattered forams.
S, irregular.

174-232
CALC OOZE
7.5 YR 6/4 light brown with zones of 7.5 YR 5/4 brown.
Common mottling of major colors with a few large browns 180-185 cm.
More compact lutite with scattered forams.
S with S.V.

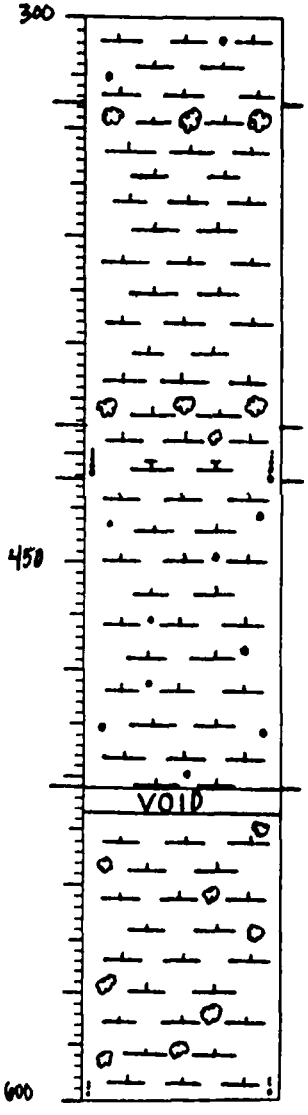
232-238
Sampling Void

238-268
CALC OOZE
7.5 YR 4/4 dark brown
Extensive mottling throughout with 5/4 brown and 6/4 light brown
Less consolidated; slightly silty lutite with scattered forams
S, mottled.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No BPC

Lithologic Log



Detailed Description

268-280
CALC OOZE
7.5 YR 6/4 light brown
A few large 7.5 YR 4/4 dark brown burrows
Slightly silty lutite (very moist) with common forams
Slightly disturbed & washed [during extrusion].
G, mottled.

280-322
CALC OOZE
7.5 YR 5/4 brown
Extensive intercalation throughout; color grades from 7.5 YR 6/4 to 4/4.
Lutite with far fewer forams.
A few scattered Mn micro-nodules in zone 294-310 cm.
S, mottled.

322-412
CALC OOZE
10 YR 7/4 very pale brown grades to 7.5 YR 5/4 brown.
Common 7.5 YR 5/4 brown mottling in the zones 322-325 cm, 400-412 cm.
More compact lutite with increasing foram content to common.
S, mottled.

412-426
CALC OOZE
7.5 YR 6/4 light brown
Very faint mottling throughout
Compact smooth lutite with two silty laminations at 215 cm. & 219 cm. grades to foram sand 420-426 cm.
Note well graded bed at unit base.
Very S texture and color.

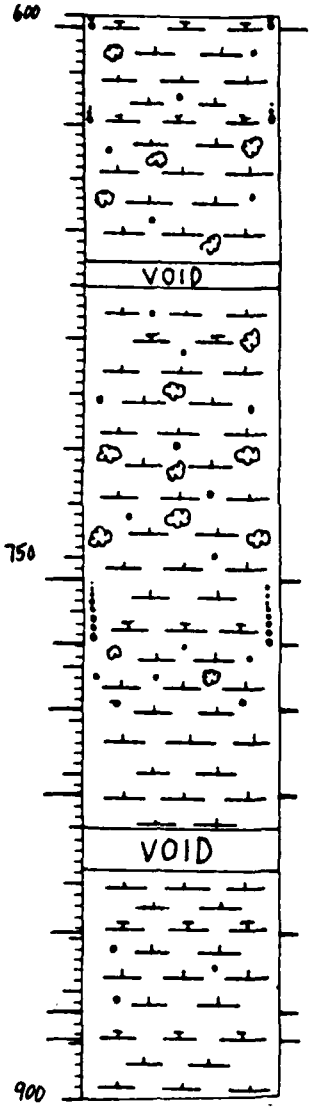
426-514
CALC OOZE
7.5 YR 5/4 brown
Faint mottling throughout 7.5 YR 6/4 light brown
Cpmpact slight silty lutite with few forams
Common manganese micronodules

514-520
Sampling Void

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 8 Pc

Lithologic Log



Detailed Description

520-604
CALC OOZE/FORAM SAND
7.5 YR 6/4 light brown grading to 7.5 YR 5/4 brown, 542-552 cm. back to 7.5 YR 6/4 light brown.
Common mottling of two main colors throughout.
Silty lutite with scattered forams grading to foram sand from 594-604 cm.
10 cm. well graded foram sand bed at base of unit.
Sharp contact.

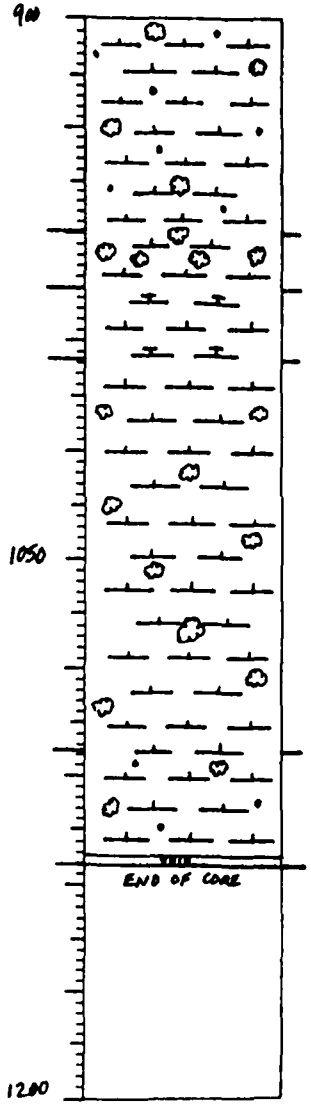
604-670
CALC OOZE
7.5 YR 5/4 brown grading to 7.5 6/4 light brown.
Faint mottling becoming common with intercalation of major colors.
Silty lutite with scattered forams grading to very smooth lutite with few forams.
Common to extensive manganese micronodules, large 7.5 YR 4/4 dark brown burrow 653-656 cm., well graded foram sand bed from 624-627 cm.

670-755
CALC OOZE
Mottling is faint except for 708-722 cm. where it is common intercalation of main colors.
670-676 cm. void due to shrinkage; more abundant forams 691-695 cm. with 1 cm. concave upward foram sand bed 695-696 cm.
G, textured.

755-774
CALC OOZE/FORAM SAND
7.5 YR 6/4 light brown grading to 7.5 YR 7/4 pink.
No mottling.
Very well graded bed grading from silty lutite to pure foram sand.
S, textured concave upward.

774-802
CALC OOZE
7.5 YR 5/6 strong brown.
Faint mottling becoming common 7.5 YR 6/4 light brown.
Silty lutite with scattered forams becoming more common down core.
Micronodules are common throughout.
S, mottled.

Lithologic Log



Detailed Description

802-824
CALC OOZE
7.5 YR 6/4 light brown
Few mottles 7.5 YR 5/4
Very smooth lutite with few to no forams
G, textured.

824-853
CALC OOZE
7.5 YR 6/4 light brown grading to 7.5 YR 7/4 pink.
No mottling evident.
Well graded silty lutite becoming pure foram sand grading to finer sand from 851-853 cm.
S.V. 826-832 cm.;missing 832-834 cm. due to shrinkage.
S, textured.

853-876
CALC OOZE
7.5 YR 5/4 brown grading to 7.5 YR 6/4 light brown.
Extensive mottling with intercalation of major colors.
Silty lutite with common forams grading to smooth lutite with few forams.
Scattered micronodules throughout.
G, textured.

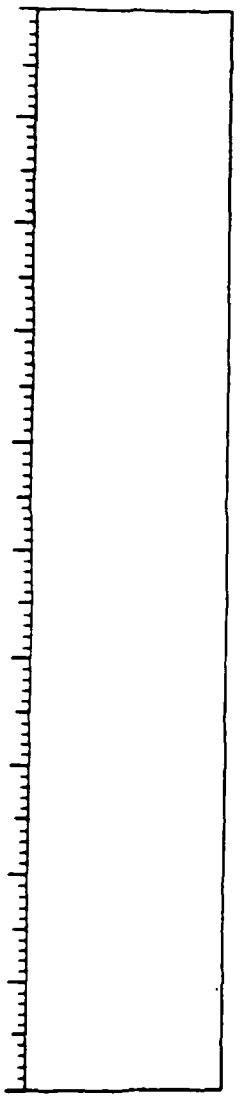
876-881
CALC OOZE
7.5 YR 7/4 pink
No mottling evident
Interbedded silty lutite with extensive forams grading to pure foram sand.
878 1 cm. 7.5 YR 7/4 pink concave upward foram sand.
S, textured.

881-959
CALC OOZE
7.5 YR 5/4 brown
scattered mottling 7.5 YR 6/4 light brown
Silty lutite with scattered forams but more common from 881-890 cm. and 930-942 cm.
Micronodules common throughout; some large.
S, mottled basis on color.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 8 PC

Lithologic Log



Detailed Description

959-976
CALC OOZE
7.5 YR 6/4 light brown
Extensive mottling 7.5 YR 5/4 throughout.
Smooth lutite with few forams grading to silty lutite with abundant forams.
Few very dark mottles 7.5 YR 3/4 dark brown.
G, textured.

976-996
CALC OOZE
7.5 YR 7/4 pink
No mottling evident
Foram sand grading to very silty lutite back to foram sand; 7.5 YR 6/4 light brown.
Deformation of bed due to water flow and shrinkage (section break)
S, textured.

996-1103
CALC OOZE
7.5 YR 5/4 brown
Common mottling throughout; intercalation with 7.5 YR 6/4 light brown.
Silty lutite with common forams.
Large round burrow 1075-1077 cm. 7.5 YR 5/4 1079 cm. 2 mm thick 7.5 YR 7/4 bed concave upward micronodules common becoming scattered to few down core.
S, mottled.

1103-1134
CALC OOZE
7.5 YR 6/4 light brown
Scattered mottling 7.5 YR 5/4 brown.
Very smooth lutite grading to silty lutite from 1122 cm.
Few micronodules 1132-1134 cm. missing due to shrinkage.

END OF CORE.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 8 PC

Expedition 123 Station No. ____

Leg No. 2 Total Core Length 1134 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
13	CALC OOZE		10			30	15	40		3	2				
75	CALC OOZE		11			30	10	45		TR	4				
165	CALC OOZE	2	15			30	3	37		5	8				
210	CALC OOZE	TR	15			36	5	36		3	5				
255	CALC OOZE		17			30	5	40		3	5				
272	CALC OOZE		10			29	15	40		3	3				
305	CALC OOZE	2	15			30	10	30		8	5				
350	NANNO OOZE	1	5			15	7	70		TR	2				
424	CALC OOZE	TR	2			17	35	40		4	2				
560	CALC OOZE	1	7			20	20	40		10	2				
600	CALC OOZE/ FORAM SAND	TR	3			5	70	10		8	4				
650	CALC OOZE	1	15			20	5	49		5	3				
725	CALC OOZE	TR	5			30	3	50		10	2				
765	CALC OOZE/ FORAM SAND		2			2	85	10		1					
790	CALC OOZE	TR	10			30	9	45		5	1				
815	CALC OOZE		7			20	3	40		20	2				
845	CALC OOZE		2			10	65	15		4	4				
870	CALC OOZE		15			25	5	40		10	5				

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 8 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 1134 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
880	CALC OOZE	TR	5			10	30	40		13	2			
925	CALC OOZE	2	7			38	2	50		3	3			
970	CALC OOZE	2	3			20	2	60		10	3			
992	CALC OOZE		2			10	50	20		15	3			
1055	CALC OOZE		7			15	3	65		4	6			
1120	CALC OOZE		3			20	5	45		25	2			

VISUAL CORE DESCRIPTION

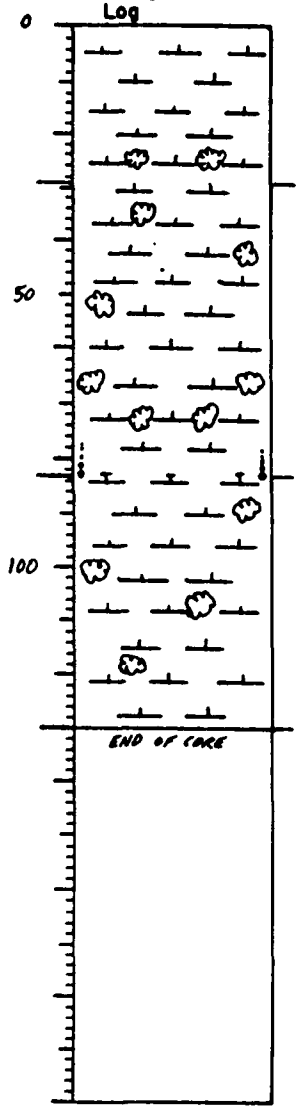
Ship A II Cruise 123 Leg 2 Sta. _____ Core No 8 PC

Total Length 130 cm. Lat. 22° 46.84'N Long. 45° 06.81'W Depth 4475 m

Core condition EXCELLENT Date Described 24 Nov. 1981 by P. MILLS

Physiographic location SEDIMENT POND MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-29
CALC OOZE
7.5 YR 5/4 brown; grades to 7.5 4/4 dark brown.
scattered mottling from 20-29 cm. intercalated 7.5 YR 5/4 - 7.5 YR 4/4.
silty lutite with scattered forams.
S, mottled.

29-83
CALC OOZE
7.5 YR 5/4 brown.
scattered mottling with 7.5 YR 6/4 grading to common mottling from 67-80 cm.
slightly silty lutite with few forams grading to foram sand from 80-83 cm.
well graded foram sand bed at base of unit (80-83 cm.).
sharp textural and color.

83-130
CALC OOZE
7.5 YR 5/4 brown
scattered mottling 7.5 YR 4/4 grading to very faint.
silty lutite with scattered forams grading to few forams.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 8 PC

Expedition 123 Station No. —

Leg No. 2 Total Core Length 130 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	CALC OOZE	TR	7			25	18	50		1	TR			
28	CALC OOZE	1	12			25	5	55		TR	2			
60	CALC OOZE	1	10			30	10	47		TR	2			
129	CALC OOZE	TR	5			40	5	47		1	2			

VISUAL CORE DESCRIPTION

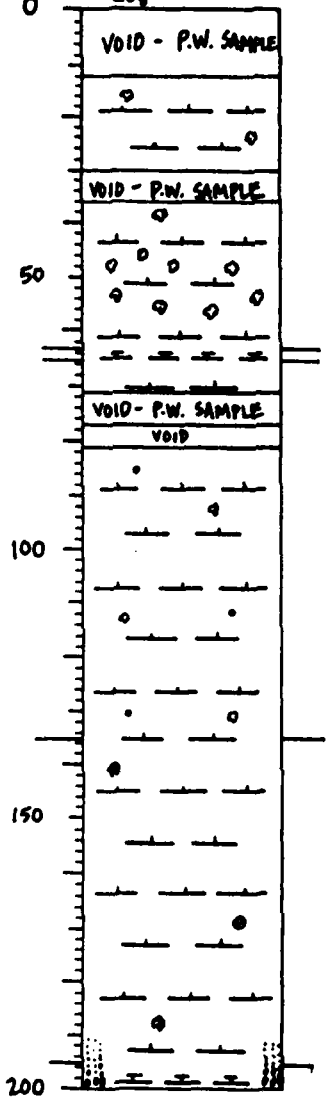
Ship AII Cruise 123 Leg 2 Sta. — Core No 9 PC

Total Length 1116 cm. Lat. 22°45.22'N Long. 46°06.49'W Depth 4460 m

Core condition EXCELLENT Date Described 14 Feb, 92 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Sampled for pore water

12-63
CALC OOZE
7.5 YR 6/4 light brown grading to 7.5 YR 5/4 from 40-52 cm.
Scattered mottling and mixing of main colors becoming extensive below 45 cm.
Slightly silty lutite with common forams becoming scattered below 45 cm.
Sampling void 30-36 cm.
S.

63-65
FORAM SAND
7.5 YR 7.5/4 pink
Foram sand
S.

65-135
CALC OOZE
7.5 YR 6/4 light brown
Faint 7.5 YR 7/4 pink mottles
Slightly silty lutite with common forams
71-77 cm. sampled for pore water; 77-81 cm. shrinkage void; few micronodules
G, mottled

135-195
CALC OOZE
8.75 YR 7/4 very pale brown
Few widely scattered mottles with scattered forams
Slightly silty lutite
Unit grades to fine foram sand below 190 cm.
Very S, concave down

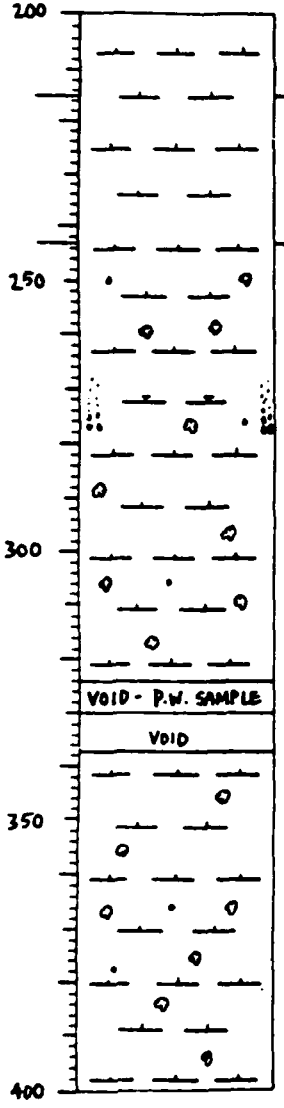
195-215
CALC OOZE
7.5 YR 5/4 brown
Few 7.5 YR 7/4 pink mottles
Slightly silty lutite with common forams
Scattered micronodules
G, mottled

VISUAL CORE DESCRIPTION

Page 2 of 6

Ship AII Cruise 123 Leg 2 Sta. - Core No 9PC

Lithologic Log



Detailed Description

215-243
CALC OOZE
7.5 YR 6/4 light brown
Silty lutite with common forams and scattered micronodules
Unit is disturbed below 223 cm.

243-558
CALC OOZE
Alternating light (8.75 YR 7.5/4 very pale brown) and dark (7.5 YR 5.5/4 brown) sequences
Common to extensive mottling of main colors except scattered widely 445-500 cm. and below 527 cm.
Slightly silty lutite with scattered to common forams except few below 520 cm.; unit grades to fine foram sand below 552 cm.
Scattered micronodules noted down to 445 cm. but appear mostly in darker units below 350 cm.; foram sand with rip up clasts from 268-278 cm.; the following intervals are dark: 280-296 cm., 363-384 cm., 400-432 cm.,511-516 cm.; shrinkage voids: 330-337 cm., 500-506 cm.; sampling voids 324-330 cm, and 483-500 cm.
Very S.

558-?
CALC OOZE
7.5 YR 6/5 reddish brown
Scattered 10 YR 6/4 light yellowish brown mottles
Slightly silty lutite with common to abundant forams
Sampling voids 566-578 cm., 641-653 cm.; several pockets of foram sand at 589 cm.
Contact missing

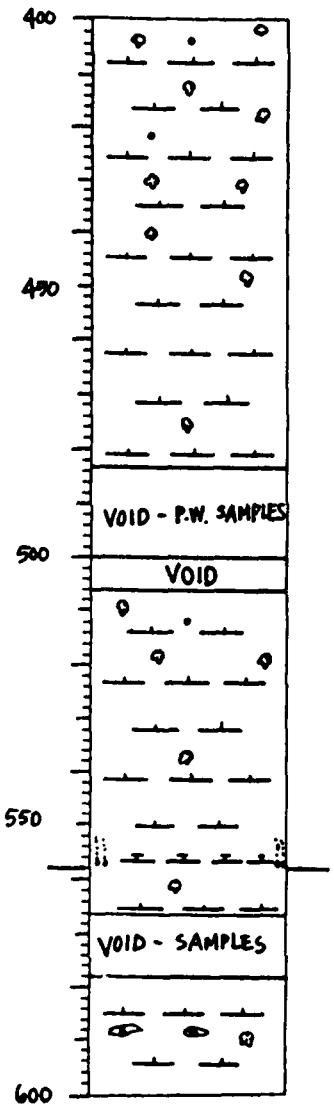
?-709
CALC OOZE
8.75 YR 7/4 very pale brown
Scattered to common 10 YR 6/4 light yellowish brown mottles
Slightly silty lutite with common forams
Shrinkage void 654-660 cm.; small 7.5 YR 7/4 pink mottle at 683 cm.
G, mottled

VISUAL CORE DESCRIPTION

Page 3 of 6

Ship AII Cruise 123 Leg 2 Sta. - Core No 9PC

Lithologic Log



Detailed Description

709-753
CALC OOZE
10 YR 7/4 very pale brown
Faint sandy mottles
Slightly silty lutite with few forams in mottles grading to fine foram sand below 745 cm.
Very S.

753-?
CALC OOZE
7.5 YR 6/4 light brown
Common to extensive mottling 10 YR 4/4 dark yellowish brown
Slightly silty lutite with common forams and micronodules
789-808 cm. sampling void; shrinkage void 808-820 cm.
Contact missing

?-866
CALC OOZE
10 YR 7/4 very pale brown
Scattered dark brown mottles
Slightly silty lutite with scattered clusters of forams
Few fine foram sand laminations near unit base
G.

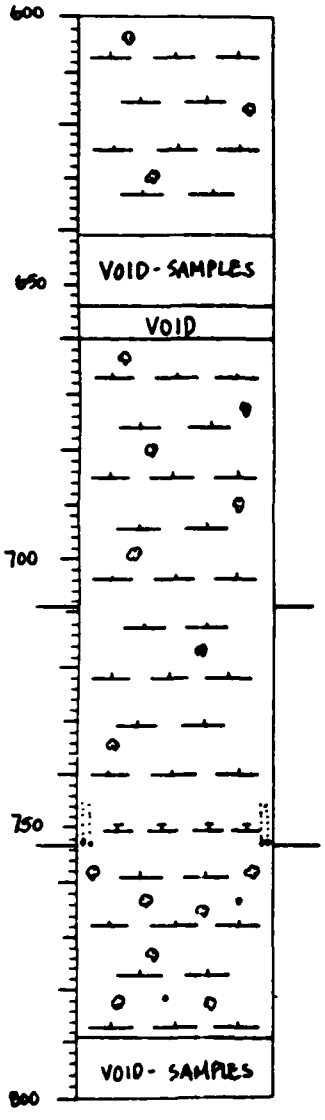
866-879
CALC OOZE/FORAM SAND
8.75 YR 7/4 very pale brown
Graded foram sand
Some sand drawn down along edges of liner
Very S, irregular

879-907
CALC OOZE
10 YR 5/5 yellowish brown
Scattered to common mottling 10 YR 4/5 dark yellowish brown
Slightly silty lutite with scattered forams
Some mixing with lower unit below 900 cm.
G, Mottled

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 9PC

Lithologic Log



Detailed Description

907-947
CALC OOZE
10 YR 7/4 very pale brown
Scattered small 10 YR 6/4 light yellowish brown and 10 YR 4/3 dark brown mottles
Slightly silty lutite with few forams with increasing calc. silt content below 934 cm.
G.

947-977
CALC OOZE/FORAM SAND
8.75 YR 7/4 very pale brown
Graded foram sand
964-969 cm. shrinkage void
S.

977-985
CALC OOZE
10 YR 7/4 very pale brown
Common 10 YR 6/4 light yellowish brown mottles
Silty lutite with scattered forams
Very thin sandy layer at unit base
Very S.

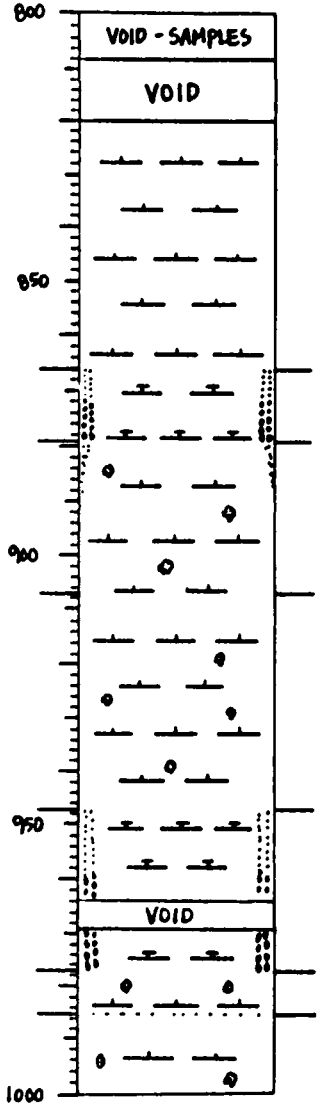
985-1116
CALC OOZE
Alternating light (10 YR 7/4 very pale brown and dark (8.75 YR 6/4 light brown)
Common to extensive mixing and mottling of main colors
Light intervals are slightly silty lutite with few forams; darker units are silty lutite with common to abundant forams
Scattered micronodules noted throughout; graded foram sands occur at 1009-1013 and 1100-1109 cm.

END OF CORE

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 9PC

Lithologic Log

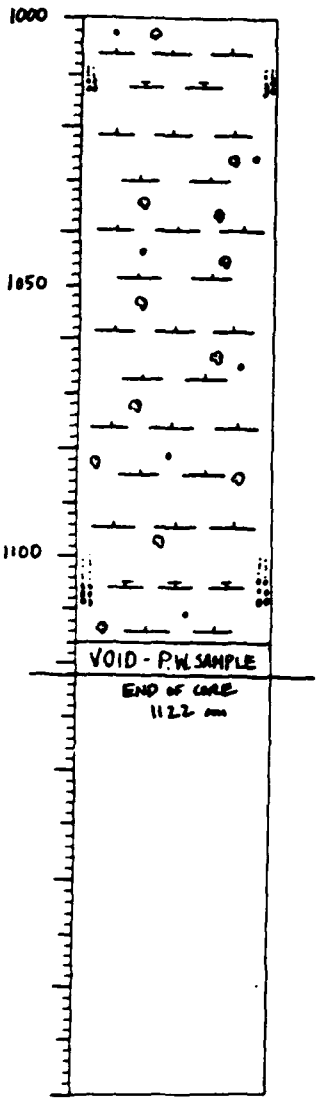


Detailed Description

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 9PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 9 PC

Expedition 123 Station No. _____

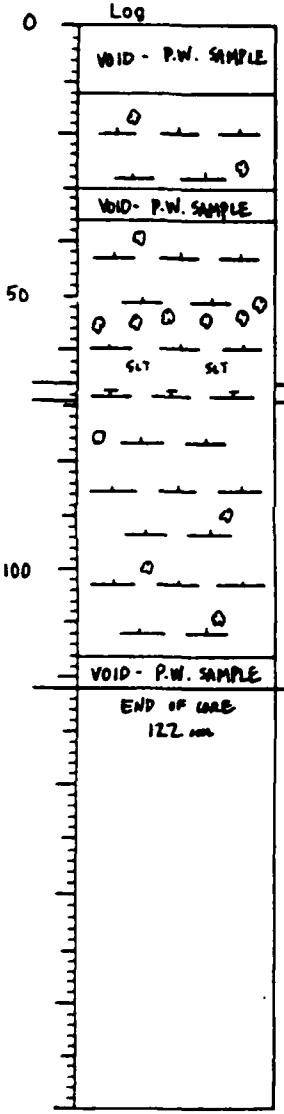
Leg No. 2 Total Core Length 1116 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
13	CALC OOZE	TR	3			15	15	62		1	4			
100	CALC OOZE	TR	5			25	18	45		2	5			
165	CALC OOZE	2	4			11	7	70		1	5			
210	CALC OOZE	2	5			25	3	60		1	4			
340	CALC OOZE		4			5	8	83		TR	3			
370	CALC OOZE	1	9			13	2	70		1	4			
470	CALC OOZE	TR	3			8	8	75		1	5			
540	CALC OOZE	1	4			20	3	37		30	5			
620	CALC OOZE	1	6			25	6	54		4	4			
730	CALC OOZE	TR	3			7	2	45		40	3			
775	CALC OOZE	TR	3			18	3	67		4	5			
845	CALC OOZE	1	2			25	3	55		10	4			
895	CALC OOZE	2	6			20	8	54		5	5			
935	CALC OOZE	1	3			25	7	38		20	6			
980	CALC OOZE	1	3			20	4	45		20	7			
1030	CALC OOZE	TR	6			35	5	47		3	4			
1090	CALC OOZE	TR	3			30	3	62		15	2			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 9 PG
Total Length 122 cm. Lat. 22°45.22'N Long. 46°06.49'W Depth 4460 m
Core condition Good Date Described 13 JAN. 92 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Sampled for pore water

12-66
CALC OOZE
10 YR 6/5 light yellowish brown
Common 10 YR 7/4 very pale brown mottles except from 50-60 cm. where unit is heavily mixed with 7.5 YR 5/5 brown
Slightly silty lutite with common forams
30-36 cm. sampled for pore water; unit becomes siltier near base
S.

66-69
FORAM SAND
7.5 YR 7/4 pink
Foram sand turbidite
Very S.

69-116
CALC OOZE
8.75 YR 5/6 yellowish brown
Scattered 10 YR 5/4 yellowish brown mottles
Slightly silty lutite with common to abundant forams

116-122
Sampled for pore water

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

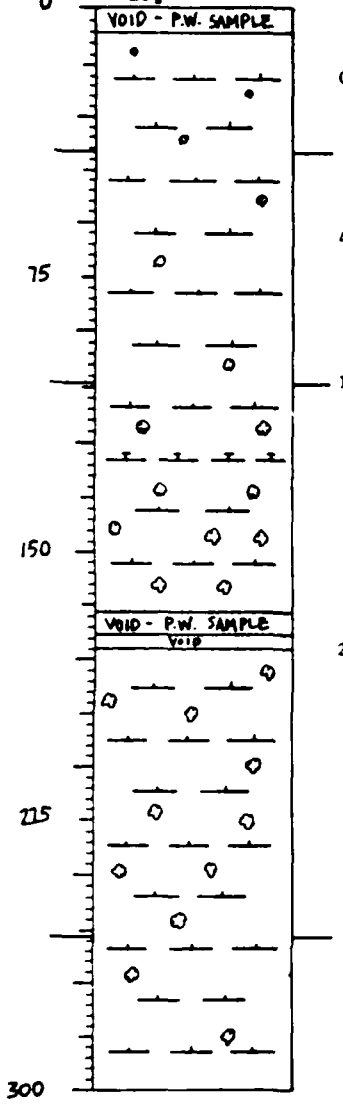
Ship: AII Core No. 9 PG
Expedition 123 Station No. ____
Leg No. 2 Total Core Length 122 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
14	CALC OOZE	TR	4			15	20	53	2	1	5			
115	CALC OOZE	1	8			20	12	53		2	5			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 10 PC
Total Length 1093 cm. Lat. 22°03.64'N Long. 46°34.09'W Depth ~4350 m
Core condition GOOD Date Described 1980.92 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-40
CALC OOZE
7.5 YR 6/4 light brown
Scattered small 7.5 YR 7/4 pink mottles
Silty lutite with common forams
0-6 cm. sampled for pore water
G.

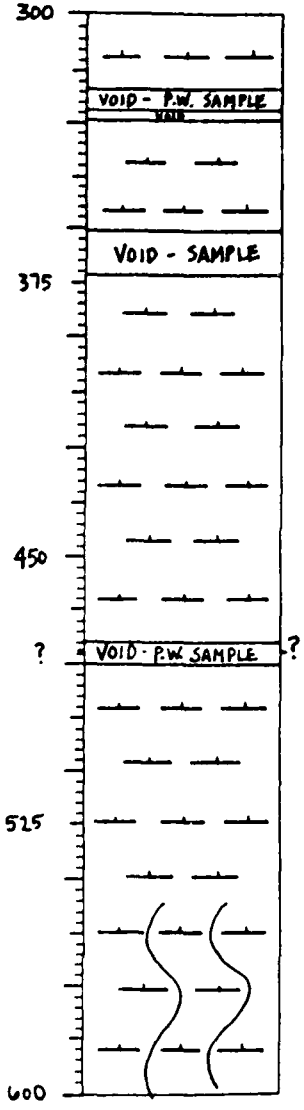
40-104
CALC OOZE
7.5 YR 6.5/4 light brown
Scattered 7.5 YR 6/4 light brown mottles
Slightly silty lutite with common forams
G.

104-257
CALC OOZE
7.5 YR 6/4 light brown
Entire unit heavily mixed and mottled with 7.5 YR 5/4 brown and 10 YR 7/4 very pale brown
Slightly silty lutite with scattered to common forams
Fine foram sand predominates from 122-126 cm.; 167-173 cm. sampling void; 173-177 cm. shrinkage void; unit has a marbled appearance and is convex upward below 200 cm.
S.

257 to 474-480
CALC OOZE
Alternating light (10 YR 7.5/4 very pale brown) and dark (8.75 YR 5/4 brown sequences)
Common to extensive mixing and mottling of main colors
Silty lutite with common forams
Sampling voids 320-326 cm, 361-373 cm.; shrinkage void 326-329 cm.; dark units occur at 277-283 cm., 298-320 cm., 357-390 cm., 410-435 cm., and 445-459 cm. and contain fewer forams than lighter units below 400 cm.
Contact missing.

Ship AII Cruise 123 Leg 2 Sta — Core No 10 PC

Lithologic Log



Detailed Description

474-480 to 685
CALC OOZE
7.5 YR 6/4 light brown and 10 YR 7/4 very pale brown
Unit is heavily mixed and shows some evidence of disturbance during coring
Silty lutite with scattered to common forams; forams more common in lighter matrix
627-633 cm. sampling void; 633-637 cm. shrinkage void; small pocket of foram sand at 679 cm.
S, concave down

685-749
CALC OOZE
10 YR 7/4 very pale brown
Unit is largely homogeneous in appearance
Slightly silty lutite with scattered forams
S, concave down

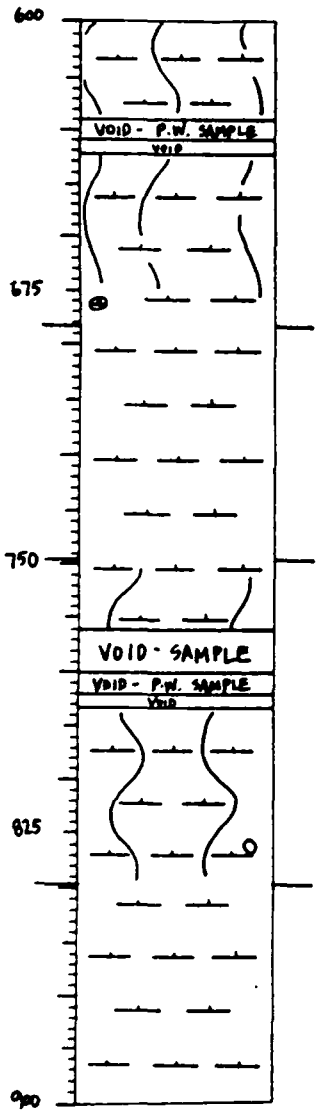
749-839
CALC OOZE
8.75 YR 4/6 strong brown and 10 YR 7/4 very pale brown
Unit is heavily mixed much like 474-685 cm.
Silty lutite with scattered forams
Small stone 2 cm. X 2 cm. with manganese coating at 829-830 cm.; 780-786 cm. sampling void; 786-790 cm. shrinkage void; 768-780 cm. sampling void
S, disturbed

839-1060
CALC OOZE
10 YR 5.5/6 yellowish brown
Widely scattered mottling except more common below 1035 cm.
Slightly silty lutite with common forams becoming scattered below 995 cm.
G.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No. 10 PC

Lithologic Log



Detailed Description

1060-1087

CALC CLAY/MICRONODULES

7.5 YR 5/6 strong brown and 7.5 YR 4/6 strong brown

Extensively mottled 10 YR 5/8 strong brown with some mixing/disturbance of material below 1080 cm.

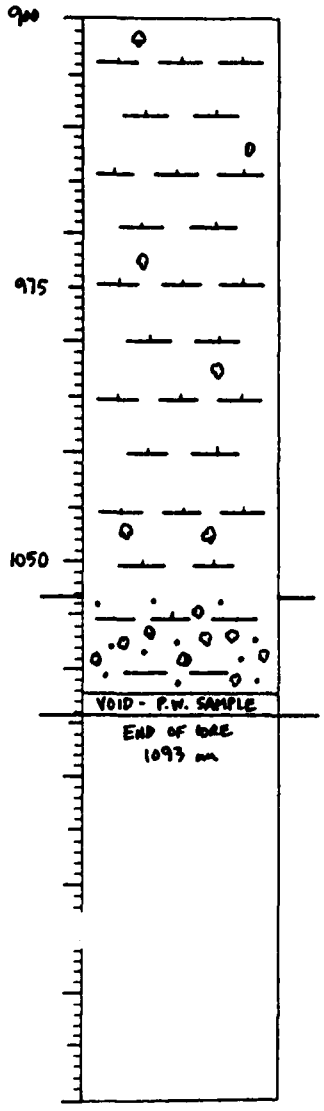
Slightly silty lutite with scattered forams and micronodules

END OF CORE

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 10 PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 10 PC

Expedition 123 Station No. ____

Leg No. 2 Total Core Length 1093 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	CALC OOZE	TR	4			26	18	45		2	5			
80	CALC OOZE	1	4			24	14	50		2	5			
180	CALC OOZE	2	5			30	7	46		6	4			
305	CALC OOZE	1	7			32	15	35		4	6			
335	CALC OOZE	TR	3			8	12	70		1	6			
457	CALC OOZE	2	8			25	4	50		6	5			
462	CALC OOZE	TR	4			65	9	16		3	3			
540	CALC OOZE	2	9			55	7	16		5	6			
705	CALC OOZE		2			7	6	40		40	5			
805	CALC OOZE		6			15	8	33		30	8			
905	CALC OOZE	TR	8			20	2	15		49	6			
1005	CALC OOZE	TR	8			17		18		55	7			
1080	CALC CLAY/ MICRONODULES	5	55			35		TR		1	4			

VISUAL CORE DESCRIPTION

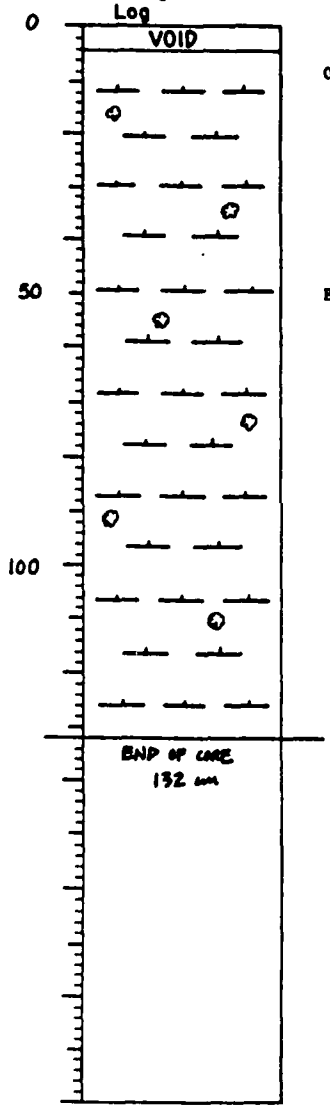
Ship AII Cruise 123 Leg 2 Sta. — Core No 10 PC

Total Length 132 cm. Lat. 22°03.64' N Long. 46°34.09' W Depth ~4350 m

Core condition EXCELLENT Date Described 18 FEB. 92 by P. MILLS

Physiographic location SEDIMENT POND - MID. ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-132

CALC OOZE
Predominately 7.5 YR 6/4 light brown with slightly lighter and darker regions
Scattered mottling
Slightly silty lutite with common to abundant forams
0-4 cm. shrinkage void; core top unreliable, double penetration confirmed

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 10 PG

Expedition 123 Station No. ____

Leg No. 2 Total Core Length 132 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	CALC OOZE	1	8			9	17	60	1	4				
120	CALC OOZE	TR	10			15	18	51	2	4				

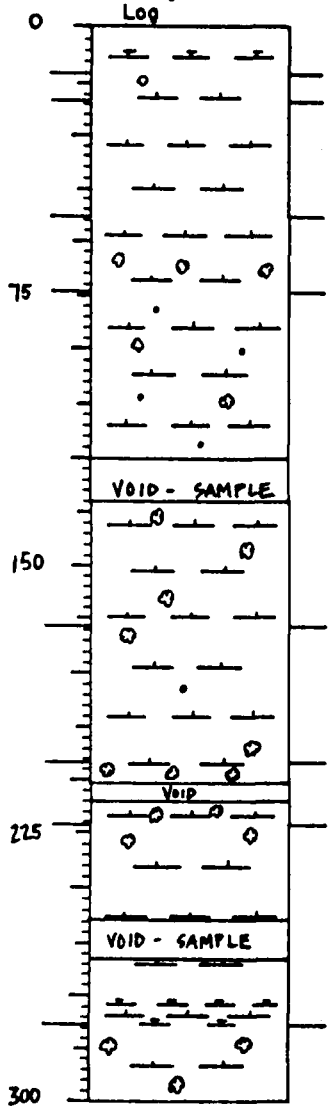
VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 11 PC

Total Length 1130 cm. Lat. 22°01.93'N Long. 46°34.91'W Depth ~4380 m

Core condition GOOD Date Described 8MAR97 by P. MILLS

Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE



Detailed Description

0-12
FORAM SAND
7.5 YR 7/4 pink
Fine foram sand
Very S.

12-20
CALC OOZE
8.75 YR 6/4 light brown but slightly darker from 16-17 cm.
Faint mottling
Slightly silty lutite with abundant forams
S, mottled.

20-53
CALC OOZE
8.75 YR 6/4 light brown
Smooth lutite grading to very fine 7.5 YR 7/4 pink sand below 52 cm.
S.

53-74
CALC OOZE
7.5 YR 5.5/4 brown grading to 10 YR 6.5/4 pale brown below 67 cm.
Common mottling of main colors below 63 cm.
Slightly silty lutite with common forams becoming scattered below 60 cm. as calc. silt content increases
Thin crushed foram sand at 73-74 cm.; forms unit base
S.

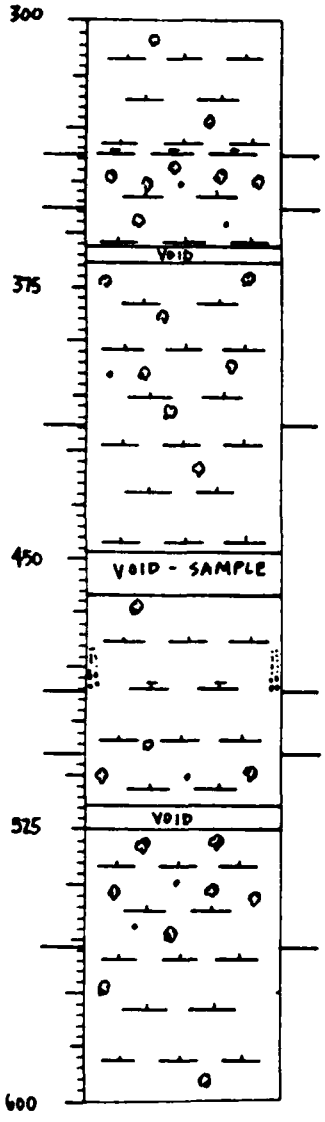
74-167
CALC OOZE
7.5 YR 5/5 strong brown becoming slightly lighter down core
Scattered to common mottling 7.5 YR 6/4 light brown
Slightly silty lutite with common to abundant forams
Micronodules common above 120 cm.;, scattered elsewhere; sampling void 120-132 cm.
C., mottled.

VISUAL CORE DESCRIPTION

Page 2 of 5

Ship AII Cruise 123 Leg 2 Sta. — Core No. 11 PC

Lithologic Log



Detailed Description

167-205
CALC OOZE
8.75 YR 6/4 light brown
Scattered mottling most evident near contacts
Silty lutite with abundant forams
Few micronodules
G., mottled.

205-223
CALC OOZE
8.75 YR 5/4 brown and 10 YR 7/4 very pale brown
Extensively mixed and mottled
Slightly silty lutite with forams scattered through lighter material
Shrinkage void 211-216 cm.
S., mottled.

223-278
CALC OOZE
10 YR 7/4 very pale brown
Few 8.75 YR 5/4 brown mottles above 235 cm.
Smooth lutite with few to no forams visible
Fine foram sand layer at 272 cm. and from 276 to 278 cm.; sampling void 248-260 cm.
S.

278-338
CALC OOZE
8.75 YR 6/4 light brown with faint color variations
Unit is commonly to extensively mottled and mixed with 8.75 YR 5/4 brown
Slightly silty lutite with scattered to common forams
Scattered micronodules; thin fine foram sand at unit base
S.

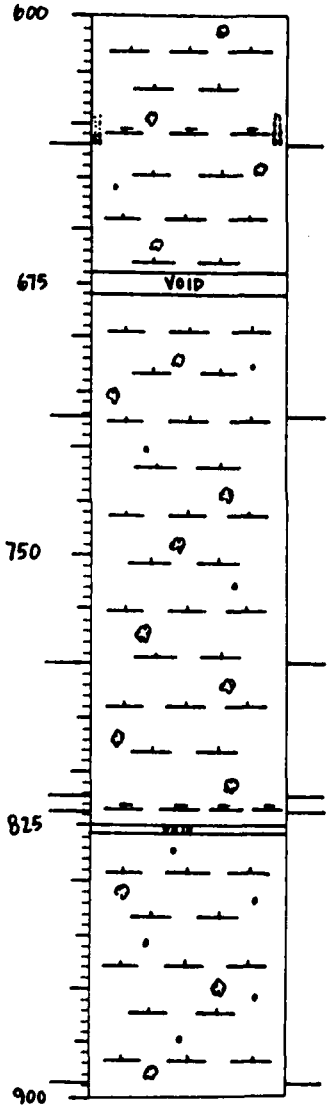
338-353
CALC OOZE
8.75 YR 7/4 very pale brown
Scattered 8.75 YR 6/4 light brown mottling
Dry silty lutite with common forams
Scattered micronodules
G, mottled.

VISUAL CORE DESCRIPTION

Page 3 of 5

Ship AII Cruise 123 Leg 2 Sta. — Core No 11 PC

Lithologic Log



Detailed Description

353-413
CALC OOZE
8.75 YR 5/4 brown
Extensive 8.75 YR 6/4 light brown mottling throughout
Slightly silty lutite with scattered forams
Few slightly larger micronodules; shrinkage void 364-368 cm.
G., mottled

413-487
CALC OOZE
10 YR 7/4 very pale brown
Scattered faint 10 YR 6/4 light yellowish brown mottles
Silty lutite with few forams grading to crushed foram silt and fine sand below 480 cm.
S.

487-504
CALC OOZE
10 YR 6/4 light yellowish brown
Faint mottling near unit base
Silty lutite with abundant forams
G., mottled

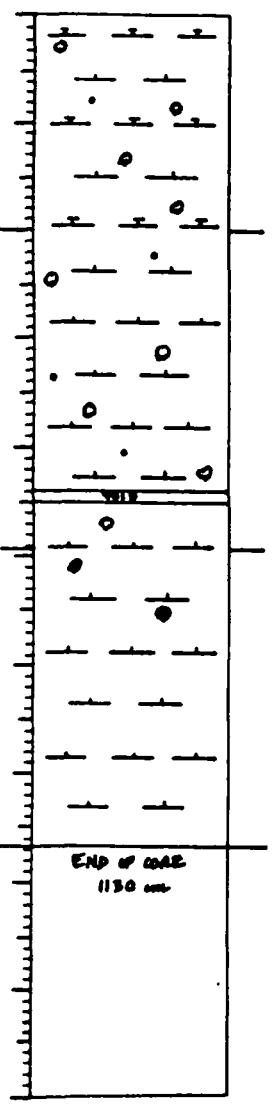
504-557
CALC OOZE
8.75 YR 5/4 yellowish brown
Extensive 10 YR 7/4 and 6/4 mottling throughout
Slightly silty lutite with common forams
Scattered micronodules; shrinkage void 518-525 cm.
G., mottled

557-636
CALC OOZE / FORAM SAND
10 YR 6.5/4 light yellowish brown
Scattered 8.75 YR 5/4 yellowish brown mottles
Slightly silty dry lutite grading to very silty below 620 cm. and foram sand below 629 cm.
Very S.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 11 PC

Lithologic Log



Detailed Description

636-712
CALC OOZE
10 YR 7/4 very pale brown but slightly darker above 648 cm.
Scattered but faint 10 YR 6/4 light yellowish brown mottling
Dry silty lutite with common forams
672-678 cm. shrinkage void; few micronodules
Very C.

712-780
CALC OOZE WITH MICRONODULES
8.75 YR 6/4 light brown
Common 10 YR 7/4 very pale brown and 8.75 YR 5/4 brown mottling
Slightly silty lutite with common forams
Scattered micronodules
C., mottled

780-817
CALC OOZE
10 YR 6.5/5 light yellowish brown
Common 10 YR 6/4 light yellowish brown mottling
Smooth lutite with scattered forams and micronodules in mottles
S.

817-821
FORAM SAND
10 YR 8/3 very pale brown
Fine crushed foram sand
Very S.

821-896
CALC OOZE
8.75 YR 6/4 light brown
Scattered mottling 10 YR 7/4 and 10 YR 4/3 dark brown
Slightly silty lutite with scattered to common forams
Shrinkage void 825-826 cm.; micronodules common throughout unit
C., mottled.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 11 PC

Lithologic Log

Detailed Description

896-960
CALC OOZE
10 YR 7/4 very pale brown
Scattered to common 8.75 YR 6/4 light brown mottling
Silty lutite with common to abundant forams except few from 940-955 cm.
Foram sand layers at 904-905 cm., 929-930 cm., 957-960 cm., few micronodules
Very S.

960-1048
CALC OOZE WITH MICRONODULES
8.75 YR 5/4 brown and 8.75 YR 6/4 light brown alternate on ~10 cm. scale
Common mottling of main colors
Slightly silty lutite with common forams becoming scattered below 1015 cm.
Scattered micronodules noted; void 1032-1035 cm., no stratigraphy missing
C, mottled

1048-1130
CALC OOZE
10 YR 7/4 very pale brown
Scattered 10 YR 6/4 light brown mottles with forams above 1068 cm.
Slightly silty lutite with few to no visible forams
Small 7.5 YR 7/4 pink mottles 1046-1052 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 11 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 1130 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
14	CALC OOZE	TR	6			23	20	45		1	5				
40	CALC OOZE	TR	4			18	5	45		20	8				
60	CALC OOZE	TR	5			15	25	43		5	7				
115	CALC OOZE	TR	4			21	10	60		2	3				
190	CALC OOZE	TR	6			23	15	48		3	5				
220	CALC OOZE	TR	4			20	3	50		20	3				
290	CALC OOZE	TR	5			13	2	75		2	3				
345	CALC OOZE		3			8	6	79		TR	4				
390	CALC OOZE	2	8			16	3	65		2	4				
445	CALC OOZE	TR	4			15	9	45		20	7				
500	CALC OOZE	TR	5			14	10	65		1	4				
540	CALC OOZE	1	7			26	6	45		10	5				
600	CALC OOZE	TR	4			20	5	41		22	8				
670	CALC OOZE	TR	2			10	7	75		1	5				
760	CALC OOZE W/ MICRONODULES	1	15			24	9	35		10	6				
810	CALC OOZE	TR	4			20	10	26		30	10				
860	CALC OOZE	1	8			26	17	40		3	5				
920	CALC OOZE	1	3			20	18	36		15	7				

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 11 PC

Expedition 123 Station No. _____

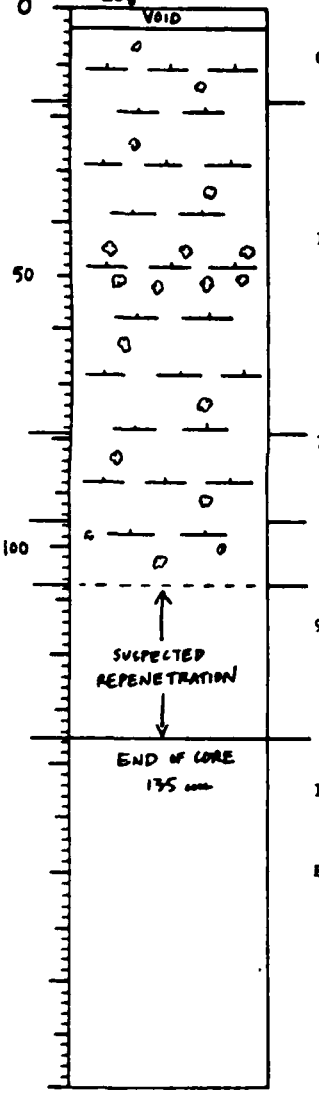
Leg No. 2 Total Core Length 1130 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
1000	CALC OOZE W/ MICRONODULES	2	22			23	10	35		4	4				
1080	CALC OOZE		3			27	4	35		25	6				
1130	CALC OOZE	TR	3			22	6	41		20	8				

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. _____ Core No. 11 PG
Total Length 135 cm. Lat. 22°01.93'N Long. 46°34.91'W Depth ~4300 m
Core condition EXCELLENT Date Described 25 FEB. 77 by P. MILLS
Physiographic location SEDIMENT POND - MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-17
CALC OOZE
10 YR 6/4 light yellowish brown
Scattered but faint 10 YR 7/4 very pale brown mottles
Slightly silty lutite with abundant forams
0-3 cm. shrinkage void
G, mottled

17-79
CALC OOZE
7.5 YR 6/4 light brown except 5/4 brown from 45-55 cm.
Scattered 7.5 YR 6.5/4 light brown mottles except common mottling with intercalation from 45-55 cm.
Slightly silty lutite with common forams
S.

79-95
CALC OOZE
8.75 YR 6/4 light brown
Unit is mixed and mottled with 8.75 YR 7/4 very pale brown
Silty lutite with abundant forams
Thin 7.5 YR 7/4 pink lamination at 81 cm.
G, mottled

95-107
CALC OOZE
8.75 YR 7/4 very pale brown
Scattered small 8.75 YR 6/4 mottles with few forams
Smooth compact lutite
Very S.

107-135
SUSPECTED REPENETRATION

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

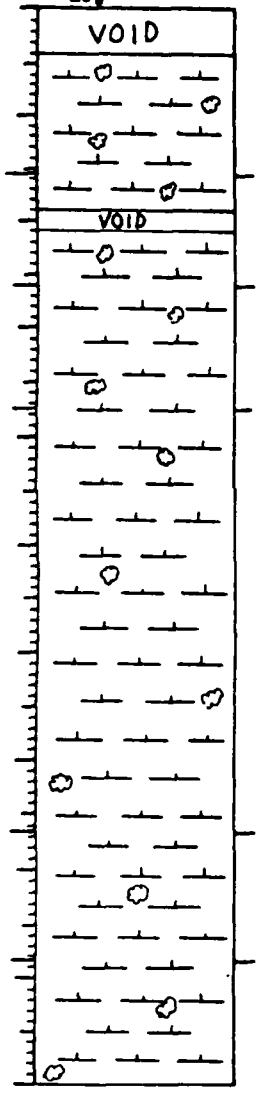
Ship: AII Core No. 11 PG
Expedition 123 Station No. _____
Leg No. 2 Total Core Length 135 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	CALC OOZE	TR	6			20	25	39		3	7			
51	CALC OOZE	2	9			30	7	45		2	5			
70	CALC OOZE	TR	7			16	30	35		4	8			
106	CALC OOZE	TR	4			17	4	55		15	5			

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No. 12 PC
Total Length _____ cm. Lat. 22°03.53' N Long. 46°34.62 W Depth 4496 m
Core condition EXCELLENT Date Described 12 DEC. 1989 by P. MILLS
Physiographic location SEDIMENT POND MID-ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-12
Sampling Void.

12-77
CALC OOZE
7.5 YR 6/4 light brown grading to 7.5 YR 5/4 brown from 23 to 30 cm.
Faint mottling from 24-50 cm.; 7.5 YR 6/4 light brown.
Silty lutite with common forams
G.

77-113
CALC OOZE
7.5 YR 5/4 brown
Faint mottling 7.5 YR 6/4 light brown; sampling void from 87-93 cm.
Silty lutite with common forams.
Two 7.5 YR 4/4 brown layers 105-107 cm. and 110-113 cm. with 7.5 YR 5/4 mottles common.
S, mottled.

113-230
CALC OOZE
7.5YR 5/4 brown
Very faint mottling 7.5YR 4/4 dark brown and 7.5YR 6/4 light brown throughout
Slightly silty lutite with common forams
S, mottled, convex up

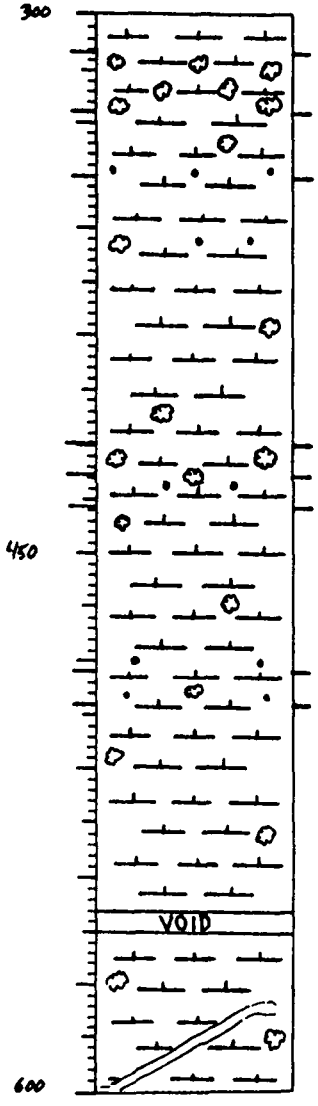
230-265
CALC OOZE
7.5 YR 5/4 brown
Common to extensive mottling 7.5 YR 4/4 dark brown.
Scattered forams becoming common
255-260 cm. greater abundancy of forams.
G, mottled color only.

265-309
CALC OOZE
7.5 YR 6/4 light brown
Faint mottling throughout 7.5 YR 5/4 brown.
Two 7.5 YR 5/4 brown bands 271-273 cm. and 278-281 cm. @ 282 cm., 7.5 YR 7/6 reddish yellow mottle or burrow.
G, mottled.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. — Core No 12 PC

Lithologic Log



Detailed Description

309-327
CALC OOZE
7.5 YR 6/4 light brown;7.5 YR 5/4 brown; 7.5 YR 4/4 dark brown
Heavily mottled throughout; intercalation of major colors.
Slightly silty lutite with scattered forams.
G.

327-345
CALC OOZE
7.5 YR 5/4 brown
Very faint mottling 7.5 YR 4/4 dark brown at top of unit.
Slightly silty lutite with scattered forams ; common forams in 7.5 YR 6/4.
7.5 YR 4/4 dark brown layer from 329-331 cm.; 7.5 YR 6.4 light brown layer from 336-339 cm.; few manganese micronodules at base of unit.
S, Mottled heavily.

345-419
CALC OOZE
7.5 YR 5/4 brown
Very faint widely scattered mottling; 7.5 YR 6/4 light brown.
Smooth lutite with scattered forams throughout.
S, heavily mottled.

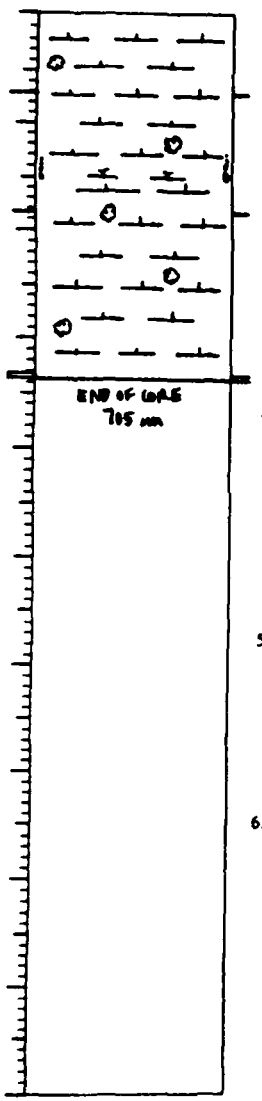
419-428
CALC OOZE
10 YR 6/4 light yellowish brown
Common mottling 7.5 YR 5/4 brown
Silty lutite with abundant forams.
S, mottled.

428-437
CALC OOZE
7.5 YR 5/4 brown
Common mottling, 7.5 YR 4/4 dark brown,some intercalation of major colors.
Slightly silty lutite with common forams.
Scattered micronodules throughout.
G, mottled.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No. 12 PC

Lithologic Log



Detailed Description

437-483

CALC OOZE
10 YR 7/4 very pale brown
widely scattered mottling of 7.5 YR 5/4 brown; few 10 YR 8/3 very pale brown mottles.
silty lutite with common forams grading to abundant and back to common.
few micronodules near base of unit
G, mottled.

483-492

CALC OOZE
7.5 YR 5/4 brown
common mottling 7.5 YR 6/4 light brown
slightly silty lutite with common forams
very few micronodules throughout
S, mottled.

492-592

CALC OOZE
10 YR 6/4 light yellowish brown
very faint mottling; 7.5 YR 5/4 brown
slightly silty lutite with common forams becoming abundant from 522-538 cm. and again from 570 cm. - 583 cm.
10 YR 7/4 mottles at 525,530 & 531 cm.
Sampling Void 549-555 cm.
G, mottled.

592-622

CALC OOZE
7.5 YR 5/4 brown
scattered mottling 7.5 YR 7/6 reddish yellow.
slightly silty lutite with scattered forams throughout.
7.5 YR 8/4 pink foram sand at 45° apparent angle; 597-599 cm few micronodules
G.

622-655

CALC OOZE/FORAM SAND
10 YR 7/4 very pale brown
few 7.5 YR 8/4 pink mottles
silty lutite with common forams
638-646 cm. well graded bed. Silty lutite grading to foram sand of 7.5 YR 8/4 pink; 1-2 cm in thickness angeled at 45° apparent across section.
S.

VISUAL CORE DESCRIPTION

Ship AII Cruise 123 Leg 2 Sta. - Core No 12 PC

Lithologic Log

Detailed Description

655-700

CALC OOZE
7.5 YR 5/4 brown grading to 10 YR 7/4 very pale brown.
few mottles/burrows of 10 YR 8/3 pink.
silty lutite with common to abundant forams throughout.
689-690 cm. large 10 YR 8/3 burrow/mottle.
S.

700-701

CALC OOZE
7.5 YR 5/4 brown
no mottling
scattered forams in silty lutite
1 cm. thick
S.

701-705

CALC OOZE
10 YR 7/4 very pale brown
no mottling evident
abundant forams
may be graded foram sand bed

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: AII Core No. 12 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 713 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
13	CALC OOZE		5			17	15	60		2	TR				
50	CALC OOZE	TR	4			23	20	50		2	1				
100	CALC OOZE		3			40	10	45		2	1				
175	CALC OOZE		7			38	10	40		3	2				
260	CALC OOZE		8			39	7	40		4	2				
290	CALC OOZE	TR	3			50	5	40		1	1				
320	CALC OOZE		10			38	4	45		4	4				
335	CALC OOZE		7			33	7	50		2	1				
385	CALC OOZE		6			40	8	43		2	1				
422	CALC OOZE		4			38	5	50		2	1				
432	CALC OOZE	TR	8			35	10	45		5	2				
465	CALC OOZE		2			36	5	55		1	1				
486	CALC OOZE	TR	7			45	3	40		4	1				
545	CALC OOZE		3			35	3	55		3	1				
610	CALC OOZE		2			44	5	45		2	1				
642	CALC OOZE/ FORAM SAND		TR			10	70	15		5	TR				
650	CALC OOZE		2			34	3	45		3	1				
675	CALC OOZE		3			32	15	45		5	1				

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 12 PC

Expedition 123 Station No. _____

Leg No. 2 Total Core Length 713 cm

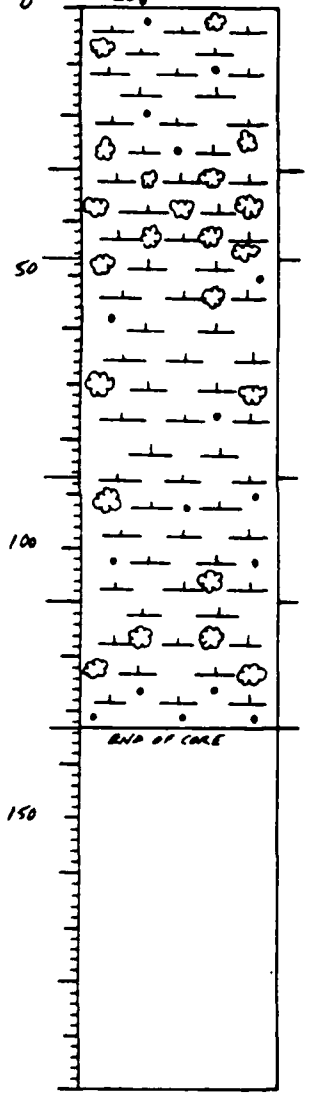
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	
702	CALC OOZE		2			32	4	60		2	TR				
704	CALC OOZE		3			31	5	60		1	TR				

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A II Cruise 123 Leg 2 Sta. _____ Core No 12 PG
Total Length 133 cm. Lat. 22° 03.53' N Long. 46° 34.62' W Depth 4496 m
Core condition EXCELLENT Date Described 11 DEC. 1989 by P. MILLS
Physiographic location SEDIMENT POND MID ATLANTIC RIDGE

Lithologic Log



Detailed Description

0-30
CALC OOZE
7.5 YR 5/4 brown
very faint 7.5 YR 6/4 mottling grading to no mottling at 15 cm.; mottling reappears near bottom contact.
silty lutite with common forams
few micronodules
G, mottled.

30-47
CALC OOZE
7.5 YR 4/6 strong brown
heavily mottled with intercalation of 7.5 YR 5/4 brown.
slightly silty lutite with common forams.
large oblong burrow at 46 cm.
G, mottled.

47-87
CALC OOZE
7.5 YR 5/4 brown grading to 7.5 YR 5/6 strong brown.
very faint mottling of major colors throughout.
silty lutite with forams common throughout.
widely scattered micronodules.
S, color.

87-110
CALC OOZE
10 YR 5/4 yellowish brown
faint 10 YR 5/3 brown mottling throughout except from 96-100 cm.
silty lutite with abundant forams
96-100 cm. layer of slightly silty lutite 7.5 YR 5/4 brown with scattered forams. Faint 10 YR 5/4 yellowish brown mottles; scattered mini micronodules throughout.
G, mottled.

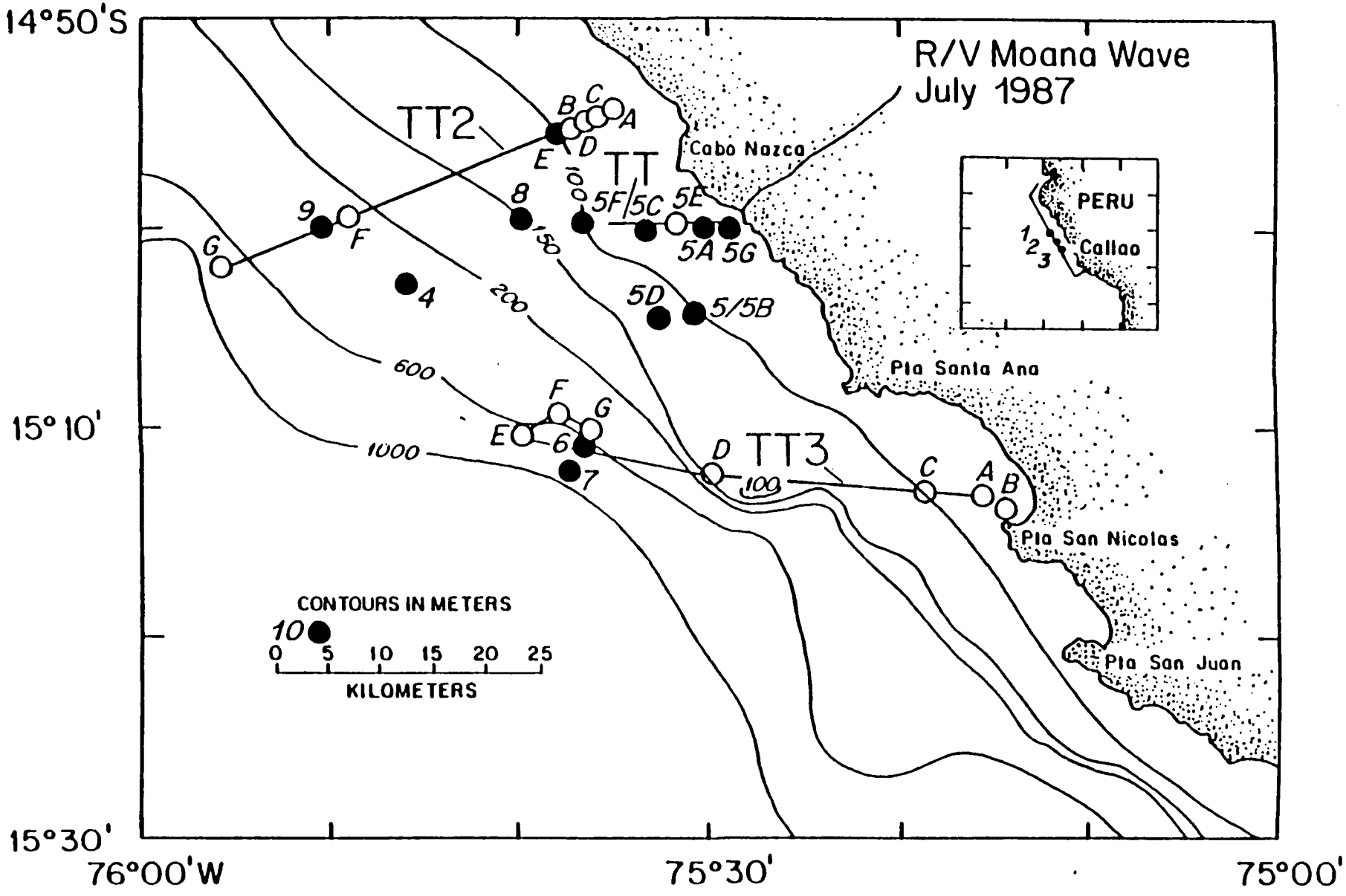
110-133
CALC OOZE
7.5 YR 5/4 brown
common 7.5 YR 6/4 mottling grading to faint.
slightly silty lutite with common forams throughout.
scattered mn micronodules below 125 cm. Convex up section missing; 130-133 cm. (core catcher)

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: A II Core No. 12 PG
Expedition 123 Station No. _____
Leg No. 2 Total Core Length 133 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
20	CALC OOZE		10			25	15	47		2	1			
40	CALC OOZE		15			25	20	35		3	2			
70	CALC OOZE		15			25	10	45		3	2			
92	CALC OOZE	TR	15			20	30	30		4	1			
120	CALC OOZE		15			27	20	35		2	1			


R/V Moana Wave
July 1987
14°50'S
15°10'
15°30'
76°00'W
75°30'
75°00'
TT2
TT
TT3
Cabo Nazca
PERU
Callao
Pta Santa Ana
Pta San Nicolas
Pta San Juan
CONTOURS IN METERS
10
0 5 10 15 20 25
KILOMETERS
100
150
200
600
1000

********** STATION DATA RETRIEVAL **********
********** DATE: 7-DEC-92 14:35 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
MWV	87	8	0001	0000	19	87 714	10 22.8'S	78 31.2'W	0	343.08	0001	235.	24.	0000	2	3803	
MWV	87	8	0002	0000	15	87 715	11 4.2'S	78 3.1'W	0	343.18	0001	244.	579.	0000	2	5300	
MWV	87	8	0002	0000	19	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	255.	66.	0000	2	5203	SOUTAR
MWV	87	8	0002	0000	19	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	252.	54.	0000	2	5303	
MWV	87	8	0002	0000	17	87 715	11 4.2'S	78 3.1'W	0	343.18	0002	255.	137.	0000	2	5203	
MWV	87	8	0004	0000	19	87 718	15 6.2'S	75 42.1'W	0	343.55	0003	270.	52.	0000	2	5303	
MWV	87	8	0004	0000	15	87 718	15 6.2'S	75 42.1'W	0	343.55	0002	270.	568.	0000	2	0000	
MWV	87	8	0004	0000	19	87 718	15 6.2'S	75 42.1'W	0	343.55	0003	254.	91.	0000	2	5203	SOUTAR
MWV	87	8	0004	0000	17	87 718	15 6.2'S	75 42.1'W	0	343.55	0006	247.	30.	0000	2	5230	
MWV	87	8	0004	0000	15	87 719	15 6.2'S	75 42.1'W	0	343.55	0003	250.	578.	0000	2	5803	
MWV	87	8	0006	0000	15	87 720	15 11.5'S	75 34.5'W	0	343.55	0004	510.	584.	0000	2	5203	
MWV	87	8	0007	0000	17	87 721	15 13.9'S	75 37.2'W	0	343.55	0007	1092.	24.	0000	2	5283	
MWV	87	8	0007	0000	15	87 721	15 13.9'S	75 37.2'W	0	343.55	0005	850.	152.	0000	2	5200	
MWV	87	8	0008	0000	19	87 721	14 59.9'S	75 39.2'W	0	343.45	0005	135.	58.	0000	2	5803	SOUTAR
MWV	87	8	0008	0000	19	87 721	14 59.9'S	75 39.2'W	0	343.45	0005	135.	41.	0000	2	5803	
MWV	87	8	0009	0000	15	87 722	14 59.9'S	75 50.5'W	0	343.45	0006	250.	585.	0000	2	5803	
MWV	87	8	0009	0000	19	87 722	14 59.9'S	75 50.5'W	0	343.45	0006	285.	47.	0000	2	5303	
MWV	87	8	0010	0000	15	87 723	15 20.0'S	75 50.0'W	0	343.55	0007	2400.	282.	0000	2	5803	
MWV	87	8	0006	0000	19	87 723	15 11.5'S	75 34.5'W	0	343.55	0007	500.	24.	0000	2	5203	
MWV	87	8	0006	0000	19	87 723	15 11.5'S	75 34.5'W	0	343.55	0006	535.	14.	0000	2	5253	SOUTAR
MWV	87	8	0010	0000	15	87 724	15 20.0'S	75 50.0'W	0	343.55	0009	2700.	290.	0000	2	5803	
MWV	87	8	0010	0000	19	87 724	15 20.0'S	75 50.0'W	0	343.55	0008	2650.	18.	0000	2	5253	
MWV	87	8	TT2E	0000	19	87 726	14 56.6'S	75 36.8'W	0	343.45	0007	110.	76.	0000	2	5803	SOUTAR
MWV	87	8	TT2E	0000	19	87 726	14 56.6'S	75 36.8'W	0	343.45	0009	110.	44.	0000	2	5233	

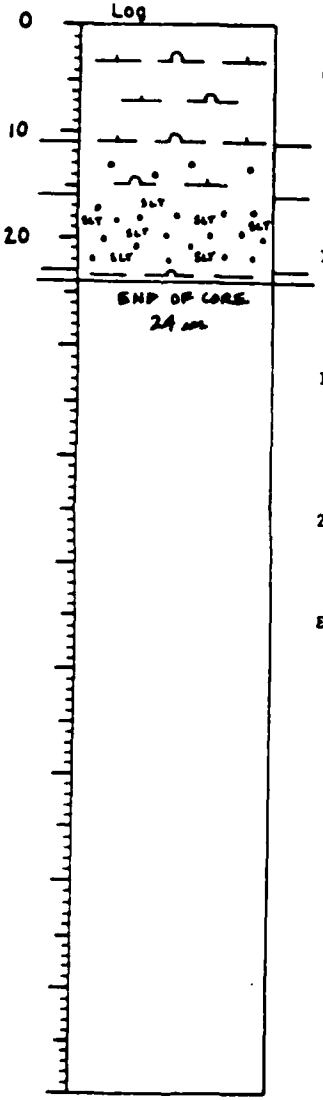
THERE WERE 24 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 1 Core No 1 BC
Total Length 24 cm. Lat. 10°22.77'S Long. 79°31.22'W Depth 235 m
Core condition GOOD Date Described 24 APR. 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-11
CALC-SILIC OOZE
5 Y 3/1 very dark gray with large 5 Y 5/2 olive gray splotches
Silty clay with abundant forams
Olive gray splotches appear to be result of desiccation
Moderately S

11-16
CALC-SILIC OOZE/MICRONODULES
5 Y 3/1 very dark gray
Very silty clay with abundant forams
S.

16-23
DETRITUS/MICRONODULES
5 Y 2.5/1 black
Very silty clay
Large irregular void below 18 cm.
G.

23-24
SLIGHTLY SILIC CLAY/DETRITUS
5 Y 4/1 dark gray
Silty clay

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

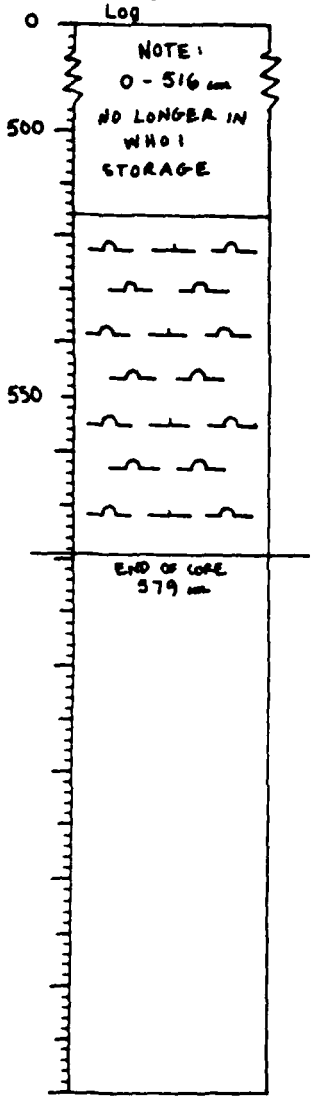
Ship: MW
Expedition 87
Leg No. 08
Core No. 1 BC
Station No. 1
Total Core Length 24 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
5	CALC-SILIC OOZE	2	4			13	50	10			5	15			1
14	CALC-SILIC OOZE/MICRO NODULES	2	40			6	40	5			5	2			
19	DETRITUS/ MICRONODULES	40	56			3						1			
24	SLIGHTLY SILIC CLAY/DETRITUS	60	9			27		1				3			

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 2 Core No. 1 PC
Total Length 579 cm. Lat. 11°04.21'S Long. 78°03.14'W Depth 244 m
Core condition GOOD Date Described 28 APR 94 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-516
NO LONGER IN WHOI STORAGE

516-579
SILIC CALC OOZE WITH DETRITUS AND MICRONODULES
5 Y 4.5/2 olive gray with 5 Y 6/4 pale olive bands and laminations
Silty diatomaceous lutite
Core is dry and brittle below 571 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

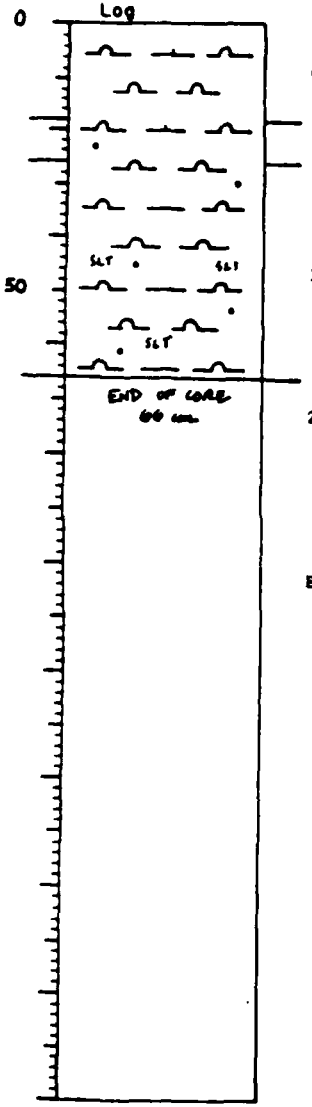
Ship: MW Core No. 1 PC
Expedition 87 Station No. 2
Leg No. 08 Total Core Length 579 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
540	SILIC-CALC OOZE WITH	20	15			16	4	5				40			TR
	DETRITUS AND MICRONODULES														
566	SILIC-CALC OOZE	2	5			21	3	15			4	50			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 2 Core No 2 SC
Total Length 66 cm. Lat. 11°44.21'S Long. 78°07.14'W Depth 255 m
Core condition GOOD Date Described 21APRIL 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-18
SILIC-CALC OOZE
5 Y 4/2 olive gray with large 5 Y 5/2 olive gray splotches
Silty diatomaceous lutite with scattered forams
Splotches of lighter material not thought to be original features; organic material: fish scales, bones etc. common
G.

18-26
SILIC-CALC OOZE WITH MICRONODULES
5 Y 2.5/1 black with olive gray splotches
Silty lutite with scattered forams
Organic material as above common
S.

26-66
HIGHLY SILIC CLAY WITH MICRONODULES AND DETRITUS
5 Y 2.5/1 black
Finely laminated slightly silty lutite
Laminations inclined 15°; slightly lighter siltier layer noted at 59 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 2 SC
Expedition 87 Station No. 2
Leg No. 08 Total Core Length 66 cm

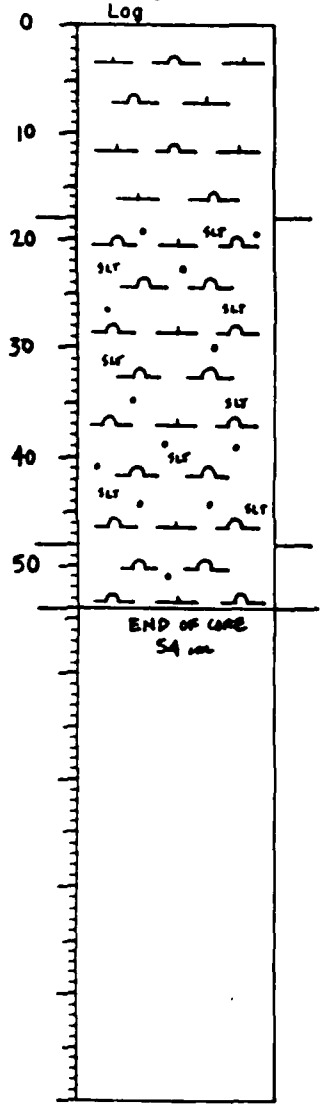
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC-CALC OOZE	5	5			20	10	7				50	TR		3
24	SILIC-CALC OOZE WITH MICRONODULES	3	15			15	4	10				53			TR
50	SILIC CLAY WITH MICRO-NODULES AND DETRITUS	20	20			49	TR	1				10			TR
65	SILIC OOZE WITH MICRO-NODULES	10	15			10						65			TR

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 2 Core No 2 BC
Total Length 54 cm. Lat. 11°04.21'S Long. 78°03.14'W Depth 252 m
Core condition GOOD Date Described 24APR94,92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-18
CALC-SILIC OOZE
5 Y 4/2 olive gray with many 5 Y 6/2 light olive gray splotches
Splotches are not thought to be original features
Diatomaceous silty lutite with common forams
G.

18-48
SILIC-CALC OOZE/MICRONODULES WITH DETRITUS
5 Y 2.5/2 black
Silty lutite with scattered forams
Faint laminations noted from 42-44 cm.
G.

48-54
SILIC-CALC OOZE
5 Y 3/2 dark olive gray
Slightly silty diatomaceous lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

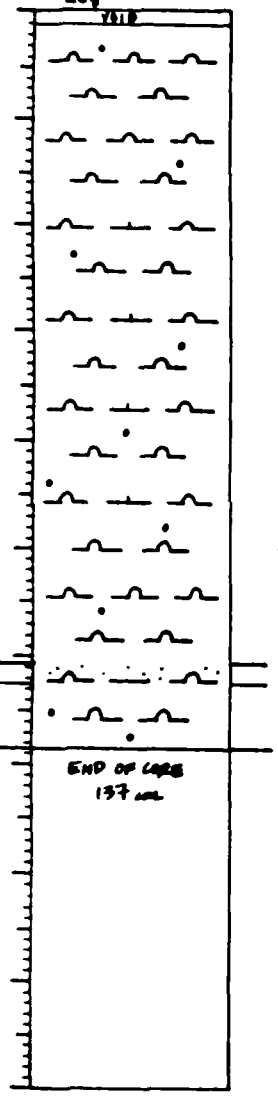
Ship: MW Core No. 2 BC
Expedition 87 Station No. 2
Leg No. 08 Total Core Length 54 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
5	CALC-SILIC OOZE	3	6			15	20	20				33			3
30	SILIC-CALC OOZE/MICRO - NODULES WITH DETRITUS	15	30			20	7	2				25			1
52	SILIC-CALC OOZE	1	10			10	6	26				45			2

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 2 Core No 2 GGC
Total Length 137 cm. Lat. 11°04.21'S Long. 78°03.14'W Depth ~ 255 m
Core condition EXCELLENT Date Described 18APR.92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-121
SILIC AND SILIC-CALC OOZE WITH MICRONODULES
5 Y 2.5/2 black with groups of 5 Y 4/2 and 4/3 olive laminations; few 5 Y 7/4 pale yellow laminations visible above 30 cm.
Silty lutite with well preserved laminations
0-2 cm. shrinkage void; lighter laminations are concentrated in the intervals 28-38 cm., 54-64 cm., and 97-107 cm.
Very S.

121-125
HIGHLY SILIC CLAY/DETRITUS
5 Y 5/2 olive gray
Silty lutite with common black organic flecks
Turbidite
Very S.

125-134
SILIC OOZE/DETRITUS WITH MICRONODULES
5 Y 2.5/2 black with slight color variations
Silty lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

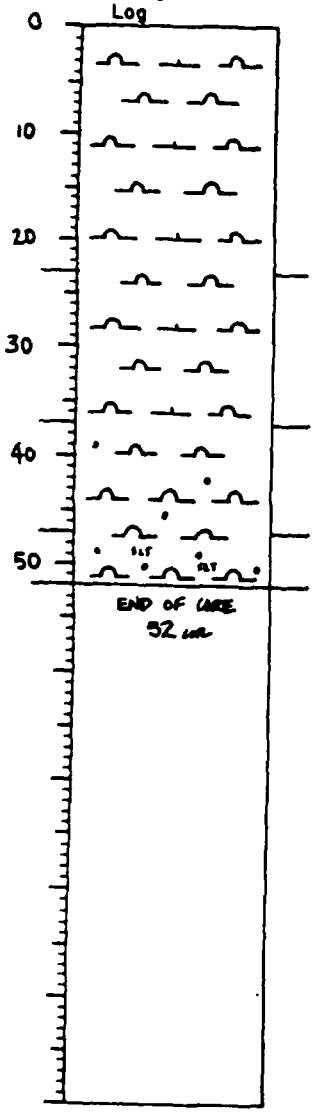
Ship: MW Core No. 2 GGC
Expedition 87 Station No. 2
Leg No. 08 Total Core Length 137 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
3	SILIC-OOZE WITH MICRO-NODULES	12	20			15	TR	TR				51			2
60	SILIC-CALC OOZE WITH MICRONODULES	3	17			20	3	6				51			TR
90	SILIC-CALC OOZE WITH MICRONODULES	7	20			15	10	4				44			TR
123	HIGHLY SILIC CLAY/DETRITUS	50	8			19	1	2				20			TR
135	SILIC OOZE/ DETRITUS WITH MICRONODULES	30	15			24	1	TR				30			1

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 4 Core No. 3BC
Total Length 52 cm. Lat. 15°06.16'S Long. 75°42.09'W Depth 270 m
Core condition GOOD Date Described 28 APRIL 88 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-23
SILIC-CALC OOZE
5 Y 3/2 dark olive gray with 5 Y 5/3 olive splotches
Slightly silty diatomaceous lutite with common forams
Splotches of olive not thought to be original features
G.

23-37
SILIC-CALC OOZE
5 Y 5/3 olive with lighter and darker laminations
Very diatomaceous laminated lutite
S.

37-47
SILIC-CALC OOZE WITH MICRONODULES
5 Y 4/3 olive with lighter and darker laminations
Large 5 Y 6/3 pale olive mottle at 38 cm.
Slightly silty laminated lutite rich in diatoms
G.

47-52
SILIC OOZE/MICRONODULES WITH DETRITUS
5 Y 3/2 dark olive gray with laminations
Slightly silty finely laminated lutite
Similar to overlying unit but slightly smaller grain size and fewer diatoms

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 3 BC
Expedition 87 Station No. 4
Leg No. 08 Total Core Length 52 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
2	SILIC-CALC OOZE	10	5			15	6	15				47			2
33	SILIC-CALC OOZE	5	7			5	1	5				76			
41	SILIC-CALC OOZE WITH MICRONODULES	3	15			10	3	4				64			1
50	SILIC-OOZE/ MICRONODULES WITH DETRITUS	15	20			25	2	TR				37			1

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 4 Core No. 2 PC
Total Length 568 cm. Lat. 15°06.16'S Long. 75°42.09'W Depth 270 m
Core condition _____ Date Described — by SCHNEIDER
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log

NOTE:
CORE IS
NO LONGER
IN WHOI
STORAGE

Detailed Description

0-568

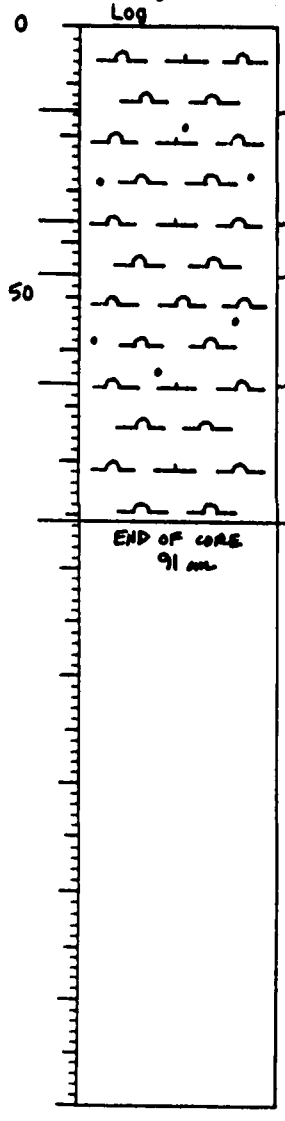
Dark olive gray 5 Y 3/2 with many 5 Y 4/4 olive laminations throughout; a few black laminations also found
Faint mottling of olive 5 Y 4/4 material found in a few locations
Smooth lutite with areas of stiffer sediment corresponding to thicker sequences of laminations
Mainly dark olive gray 5 Y 3/2 but with darker and lighter areas; many sequences of olive laminations (.5-5cm. thick) and up to 18 cm. thick; Black laminations (.5-1 cm. thick) also found; laminations are very distinct in nature; some cross bedding found, such as at 224-231 cm.; most contacts are sharp and horizontal; many non-conformable contacts also present; stratigraphy well preserved throughout

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 4 Core No 3 SC
Total Length 91 cm. Lat. 15°06.16'S Long. 75°42.09'W Depth 254 m
Core condition GOOD Date Described 10 APRIL 92 by F. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-15
SILIC-CALC OOZE
5 Y 6/4 pale olive with lighter and darker splotches
Few large 5 Y 3/2 splotches
Slightly silty very diatomaceous lutite
Core is somewhat desiccated above 35 cm.
G, irregular

15-36
SILIC-CALC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray
Common large 5 Y 6/2 and 5/2 light olive gray splotches
Slightly silty lutite
Moderately S.

36-46
SILIC-CALC OOZE
5 Y 5/3 olive with darker and lighter laminations
Slightly silty diatom rich lutite
Moderately S.

46-66
SILIC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray with fine laminations
Finely laminated slightly silty lutite
Few diatom rich clumps
S.

66-91
SILIC-CALC OOZE
5 Y 4/2 olive gray with laminations ranging from 5 Y 7/4 to 3/2
Slightly silty diatom rich laminated lutite
Common small diatom rich clumps

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 3 SC

Expedition 87 Station No. 4

Leg No. 08 Total Core Length 91 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
2	SILIC-CALC OOZE	5	4			20	3	6				59			3
25	SILIC-CALC OOZE WITH MICRONODULES	3	20			20	8	9				38			2
40	SILIC-CALC OOZE	1	3			7	TR	10				79			TR
60	SILIC OOZE WITH MICRO-NODULES	12	15			15						56			2
88	SILIC-CALC OOZE	5	10			10	3	10				59			3

VISUAL CORE DESCRIPTION Page 1 of 1

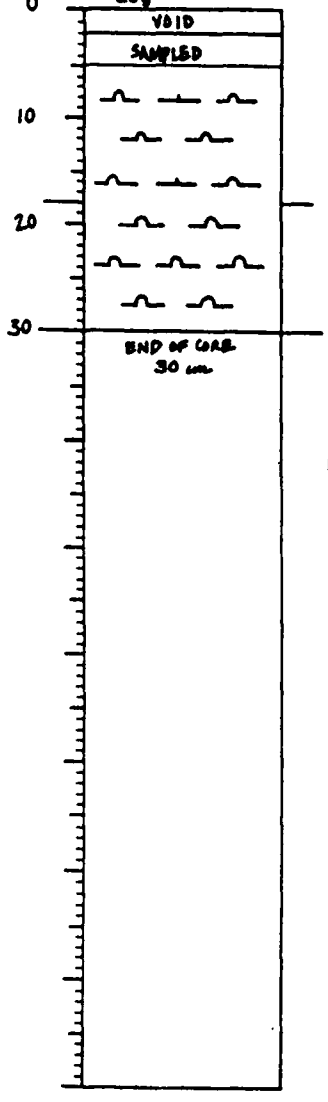
Ship MW Cruise 87 Leg 08 Sta. 4 Core No. 666C

Total Length 30 cm. Lat. 15°06.16'S Long. 75°42.09'W Depth 247 m

Core condition GOOD Date Described 15 APRIL, 87 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-18

SILIC-CALC OOZE
5 Y 3/2 dark olive gray
Scattered 5 Y 5/4 olive diatomaceous features
Silty lutite
0-2 cm. shrinkage void; 2-5 cm. (top 3 cm. of core) sampled for organic geochemistry; core is disturbed above 11 cm. and perhaps down to 18 cm.
S, irregular

18-30

SILIC OOZE
5 Y 3/2 dark olive gray with abundant 5 Y 6/3 pale olive laminations
Slightly silty lutite
Laminations are generally only partially formed and contain clumps of diatom rich material

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 6 GGC

Expedition 87 Station No. 4

Leg No. 08 Total Core Length 30 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
10	SILIC-CALC OOZE	8	6			20	4	5				55			2
29	SILIC-OOZE	5	4			20		TR				70			1

VISUAL CORE DESCRIPTION Page 1 of 3

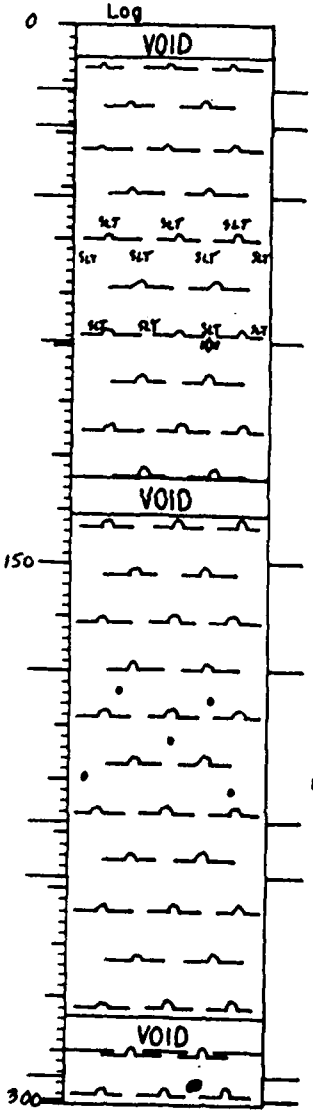
Ship MOANA WAVE Cruise 87-08 Pass I Leg ___ Sta. 4 Core No 3PC

Total Length 578 cm. Lat. 15°06.16' S Long. 75°42.09 W Depth 250m

Core condition GOOD Date Described 24 FEB 1990 by P MILLS

Physiographic location CONTINENTAL MARGIN - PERU

Lithologic Log



Detailed Description

0-17
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray
Silty lutite with fine dark and light laminations
Shrinkage void 0-8 cm.
S.

17-28
DIATOM OOZE
5 Y 4/3 olive
Silty lutite
Several 5 Y 6/6 olive yellow laminae; dark 5 Y 3/2 layer at 21-23 cm.
S.

28-48
SILIC OOZE
5 Y 3/2 olive gray
Silty lutite
Shrinkage void 33-36 cm.
S.

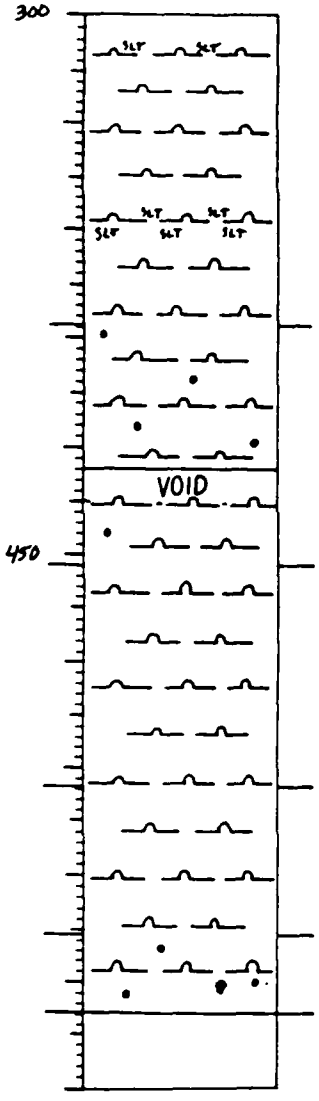
48-89
SILIC OOZE
Predominantly 5 Y 4/3 olive but 5 Y 3/2 from 65-71 cm.
Silty lutite becoming very fine silt near unit base
Several quite silty laminations and beds 5 Y 6/6 and 5 Y 5/3 olive concentrated in regions 53-65 cm. and 82-86 cm.; fossilized vertebra at 87-88 cm.
S.

89-150
SILIC OOZE
5 Y 3/2 dark olive gray
Silty lutite with several silty laminae and beds throughout
Small void at 100 cm.; shrinkage void from 124-136 cm.
G.

VISUAL CORE DESCRIPTION

Ship MOANA WAVE Cruise 87-08 PUBS I Leg ____ Sta. 4 Core No. 3PC

Lithologic Log



Detailed Description

150-180
DIATOM OOZE
5 Y 3/2, 5 Y 4/3 and 5 Y 6/6 interbedded
Silty lutite with very silty horizons most notably at 162 cm., 165 cm., 175 cm., and 179 cm.
Unit consists of many beds and laminations of main colors
S.

180-222
SILIC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray
Silty lutite
Few 5 Y 5/4 olive laminae most notably at 189 cm. and 204 cm.
S.

222-237
DIATOM OOZE
5 Y 4/3 olive
Silty lutite
Few 5 Y 6/6 olive yellow laminations at 230 cm., and 237 cm.

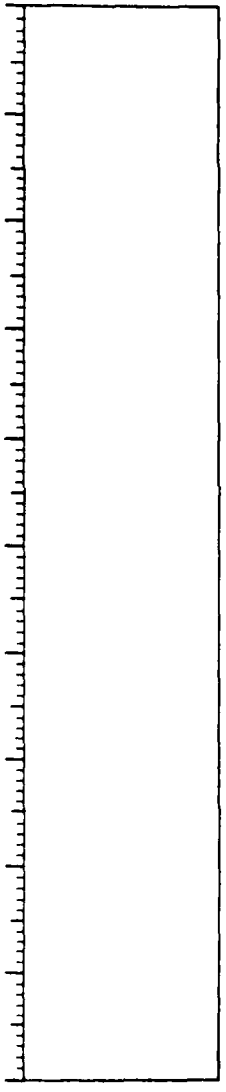
237-292
SILIC OOZE
5 Y 3/2 dark olive brown
Scattered 5 Y 4/3 olive mottles/burrows
Slightly silty lutite
5 Y 4/3 laminations at 248 cm.
Shrinkage void at 275-285 cm.
S.

292-299
SILIC OOZE
5 Y 4/3 olive
Silty lutite
Several laminations of 5 Y 6/4 pale olive; scaly translucent flake noted at 294 cm.
S.

VISUAL CORE DESCRIPTION

Ship MOANA WAVE Cruise 87-08 PUBS I Leg ____ Sta. 4 Core No 3PC

Lithologic Log



Detailed Description

299-386
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray
Slightly silty lutite
Few silty laminations at 308-311 cm. and 355-365 cm.; few 5 Y 8/3 pale yellow flecks noted at 333 and 339 cm.
S.

386-453
SILIC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray and 5 Y 4/3 olive interbedded
Slightly silty and silty lutite in alternating beds of 5-10 cm. thickness
Shrinkage void 426-436 cm.
G.

453-515
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray
Slightly silty lutite
Few 5 Y 4/3 olive beds and laminations from 460-470 cm.; 2 5 Y 4/3 olive regions from 281-285 cm. and from 298-305 cm. appear to be overturned bits of intact stratigraphy (clasts)
G.

515-556
DIATOM OOZE
Mainly 5 Y 4/3 olive with 5 Y 3/2 dark olive gray
Few 10 YR 5/6 yellowish brown flecks from 524-534 cm.; 10 YR 8/3 very pale brown flecks at 523 cm.
Silty lutite
Interbedded laminations and beds throughout; 5 Y 6/3 pale olive lens shaped bed with very sharp contacts at 546 cm.

556-578
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 3/2 dark olive gray grading to 5 Y 4/3 olive
Slightly silty except silty bottom 3 cm. of unit
Concave downward silty bed at 558-560 cm.; group of translucent spiny flakes noted at 570 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MOANA WAVE Core No. 3 PC

Expedition 87 Station No. 4

Leg No. 08 PUB SI Total Core Length 578 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
12	SILIC OOZE	15	8			20						57			TR
24	DIATOM OOZE	1	2			8		4				85			TR
40	SILIC OOZE	8	10		TR	15	TR	TR				67			TR
75	DIATOM OOZE	2	7			5	1	2				83			TR
115	SILIC OOZE	4	10			30		TR				55			1
172	DIATOM OOZE	TR	3			5	1	1				88			2
210	SILIC OOZE WITH MICRO-NODULES	4	20			10	1	1				61			3
235	DIATOM OOZE	2	4			5		1				89			4
295	SILIC OOZE	1	10			24	TR	3			15	45			2
345	SILIC OOZE WITH DETRITUS	20	7			20		TR				51			2
415	SILIC OOZE WITH MICRONODULES	10	15			20	TR	1				50			4
480	SILIC OOZE WITH DETRITUS	15	10			5	1	TR				67			2
530	DIATOM OOZE	3	7			7		TR				81			2
576	SILIC OOZE WITH DETRITUS AND MICRO-NODULES	15	15			10	2	3				51			4

VISUAL CORE DESCRIPTION Page 1 of 3

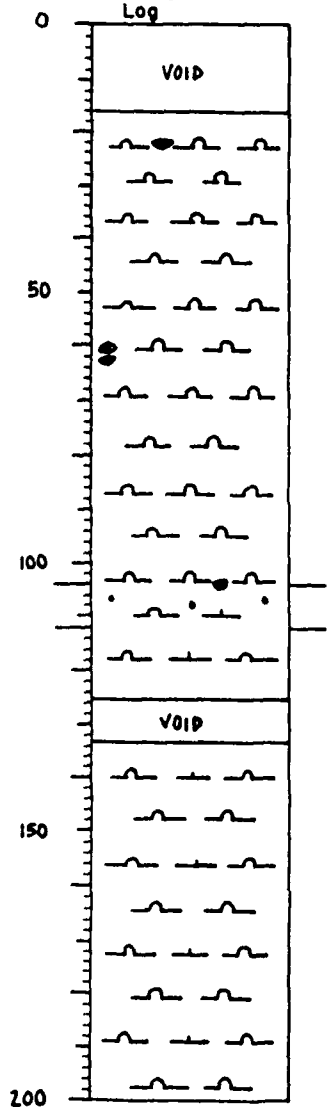
Ship MW Cruise 87 Leg 08 Sta. 6 Core No 4PC

Total Length 584 cm. Lat. 15°11.49'S Long. 75°34.51'W Depth 510 m

Core condition GOOD Date Described 16MAR, 92 by F.MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-16 SHRINKAGE VOID

16-106
SILIC OOZE
Interbedded light 10 Y 5/4 light olive 10 Y 4/2 grayish olive and 5 Y 3/2 dark olive gray layers mainly on 2-10 cm. scale; some finer laminations present
Moderately dry diatomaceous lutite
Well preserved bivalve shells at 21-23 cm., 61-65 cm., and 106 cm.; layering is smaller scale and overall lighter in color above 45 cm.
G.

106-112
SILIC-CALC OOZE/MICRONODULES
5 Y 2/1 black
Dry lutite
Scattered shell fragments near top of unit
G.

112-259
SILIC-CALC OOZE
5 Y 4/4, 4/3 olive and 5 Y 4/2 olive gray; few regions of 5 Y 3/2 dark olive gray
Dry diatom rich lutite
Dark and very dry from 242-252 cm.; few small 10 YR 6/6 brownish yellow features below 220 cm.; 125-133 cm. shrinkage void
S.

259-345
HIGHLY SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray except 5 Y 4/3 olive and laminated from 265-274 cm., and slightly lighter from 326-330 cm.
Very dry lutite
Core is dry and broken from 280-300 cm.
S, irregular

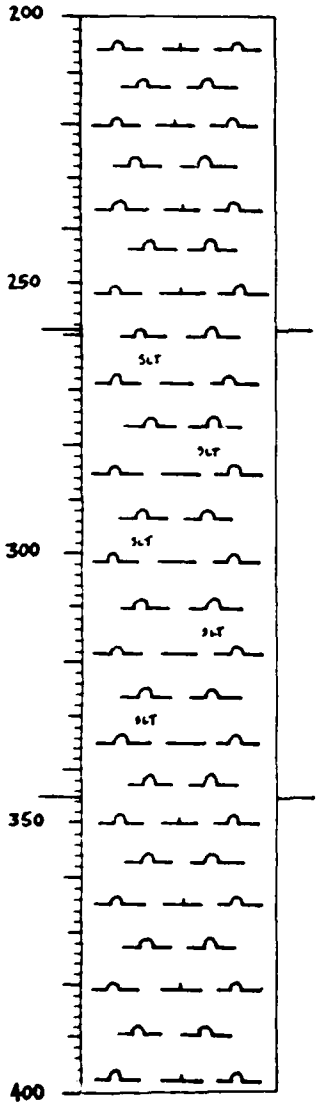
345-402
SILIC-CALC OOZE
Interbedded 5 Y 5/4 olive and 5 Y 4/2 olive gray layers
Dry lutite with lighter layers rich in diatoms
S.

VISUAL CORE DESCRIPTION

Page 2 of 3

Ship MW Cruise 87 Leg 08 Sta. 6 Core No. 4PC

Lithologic Log



Detailed Description

402-487
SILIC-CALC OOZE
Predominantly 5 Y 3/2 dark olive gray with few 5 Y 5/3 olive layers at few locations
Dry lutite with some diatom rich layers
Shrinkage void from 430-440 cm.
G.

487-579
SILIC CALC OOZE
5 Y 3/2 dark olive gray with 1-3 cm. thick 5 Y 5/4 olive bands commonly spaced throughout unit
Dry lutite with common diatom rich layers
S.

579-584
SILIC OOZE
5 Y 4/3 olive
Very dry/brittle lutite, well stratified
581-582 cm. 10 YR 6/4 light yellowish brown layer

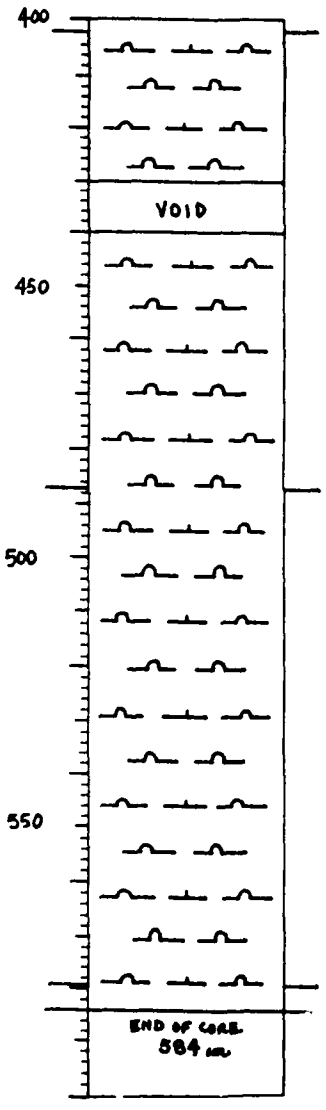
END OF CORE

VISUAL CORE DESCRIPTION

Page 3 of 3

Ship MW Cruise 87 Leg 08 Sta. 6 Core No 4PC

Lithologic Log



Detailed Description

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 4 PC

Expedition 87 Station No. 6

Leg No. 08 Total Core Length 584 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
17	SILIC OOZE	3	7			6	1	4				76			3
109	SILIC-CALC OOZE / MICRO-NODULES	3	30			15	3	5				44			TR
180	SILIC CALC OOZE	3	4			10	1	5				77			TR
275	HIGHLY SILIC CLAY WITH DETRITUS	25	10			41	3	1				20			TR
375	SILIC-CALC OOZE	2	3			20	4	15				56			TR
455	SILIC-CALC OOZE	8	4			7	3	5				71			2
530	SILIC-CALC OOZE	9	3			7	4	4				73			TR
582	SILIC OOZE	TR	2			5	1	2				90			

VISUAL CORE DESCRIPTION

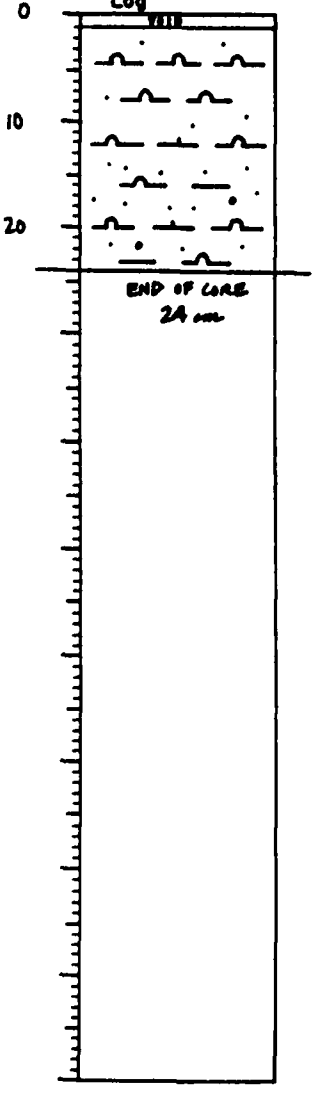
Ship MW Cruise 87 Leg 08 Sta. 7 Core No. 766C

Total Length 24 cm. Lat. 15° 13.92'S Long. 75° 37.23' W Depth ~1092 m

Core condition GOOD Date Described 15 MAR '72 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-24

SILIC OOZE AND SILIC CALC CLAY WITH DETRITUS
5 Y 4/2 olive gray with abundant 5 Y 2.5/1 black mottled regions
Black mottles as noted
Very silty organic rich lutite with some sand
0-1 cm. shrinkage void

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 7 GGC

Expedition 87 Station No. 7

Leg No. 08 Total Core Length 24 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
2	SILIC OOZE WITH DETRITUS	17	6			25		2				47			3
23	SILIC CALC CLAY/DETRITUS WITH MICRO-NODULES	35	15			27		8				15			TR

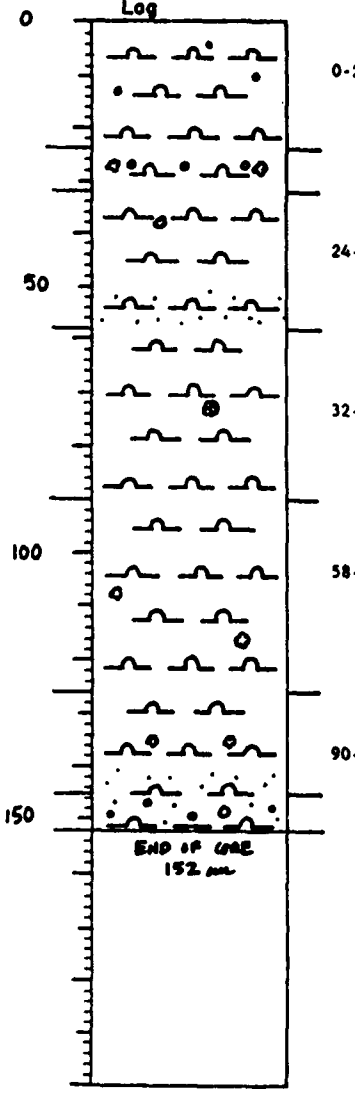
VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 7 Core No 5 PC

Total Length 152 cm. Lat. 15° 13.92' S Long. 75° 37.23' W Depth 850 m

Core condition GOOD Date Described 22 Feb 90 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN



Detailed Description

0-24
SILIC OOZE
5 Y 3/2 dark olive gray becoming 5 Y 5/3 olive below 12 cm.
Silty lutite with common 5 Y 2.5/1 black flecks and particles (pebble size)
Top 15 cm. disturbed by drying
S, desiccated irregular

24-32
SILIC OOZE
5 Y 2.5/2 black
Common 5 Y 5/3 olive mottles
Silty lutite
Scattered pebbles 27-29 cm.
G, irregular

32-58
SILIC OOZE
5 Y 4/3 olive
Few 5 Y 5/3 olive mottles at 37-38 cm.; scattered 5 Y 3/2 dark olive gray mottles above 50 cm.
Silty lutite becoming coarser near unit base
S, I 10°

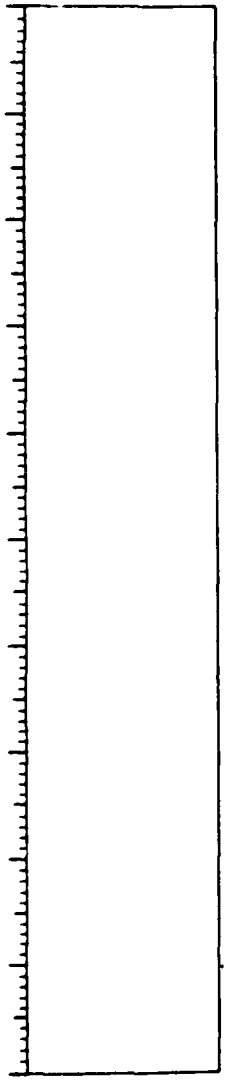
58-90
SILIC OOZE
5 Y 4/3 olive (slightly lighter than above)
Faint 5 Y 5/3 mottles
Silty lutite
Fossil fragment at 85-86 cm.; 5 Y 4/2 olive gray mottle at 73 cm. (silty)
G.

90-126
SILIC OOZE
5 Y 5/2 and 5/3 olive gray/olive
Scattered 5 Y 4/2 olive gray mottles/bands below 105 cm.
Silty lutite
S, I 15°

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 7 Core No. 5 PC

Lithologic Log



Detailed Description

126-145
SILIC OOZE
5 Y 4/2 olive gray
Scattered 5 Y 5/2 olive gray mottles/flecks from 134-138 cm.
Silty lutite becoming very silty below 140 cm.
1 cm. 5 Y 5/2 olive gray laminations at 127 cm.
G.

145-152
HIGHLY SILIC CLAY
5 Y 4/2 olive gray
Very silty fragmented lutite matrix containing pebbles and stones
Unit is very dry; largest stone at 147-150 cm. measures 2 cm. x 3 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MOANA WAVE Core No. 5 PC

Expedition 87 Station No. 7

Leg No. 08 PUBS 1 Total Core Length 152 cm

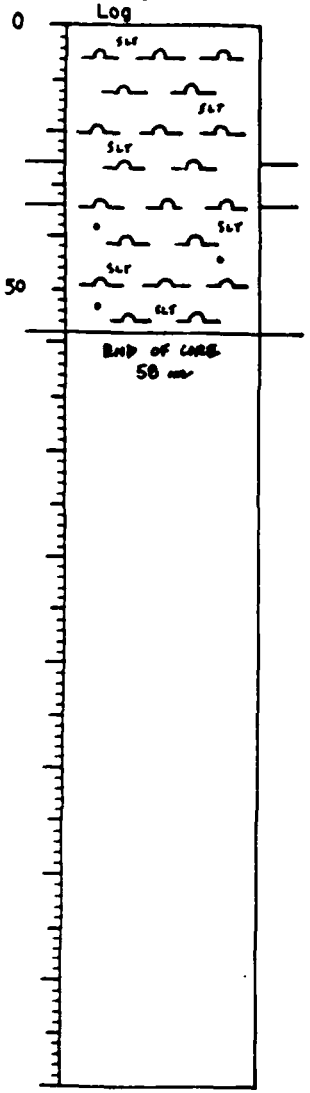
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
7	SILIC OOZE	5	2			52		1				40		TR	TR
20	SILIC OOZE	1	4			33		TR				62			TR
28	SILIC OOZE	5	3			42		TR				50			TR
45	SILIC OOZE	TR	5			23		TR				72			TR
60	SILIC OOZE	5	5			40						50		TR	TR
80	SILIC OOZE	10	3			50		?				35			
110	SILIC OOZE	10	2		TR	17		TR				70		TR	1
135	SILIC OOZE	5	4			45		TR				46			TR
150	HIGHLY SILIC CLAY	4	2			74						20			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 8 Core No. 5 SC
Total Length 58 cm. Lat. 14°59.96' S Long. 75°39.23' W Depth 135 m
Core condition GOOD Date Described 21 APRIL 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-26
SILIC OOZE WITH DETRITUS
5 Y 6/2 light olive gray with splotches of 5 Y 5/2 olive gray
Slightly silty very diatomaceous laminated lutite
Two extremely diatom rich layers at 9 and 10 cm.
G.

26-34
SILIC OOZE
5 Y 3/2 dark olive gray with lighter and darker laminations
Finely laminated slightly silty diatom rich lutite
33-34 cm. is very rich in diatoms
S.

34-58
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 4/2 olive gray with faint variations in value
Small scale 5 Y 5/2 olive gray mottling present throughout
Slightly silty diatomaceous lutite
Distinct beds visible but faint; thin diatom rich layer near base of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

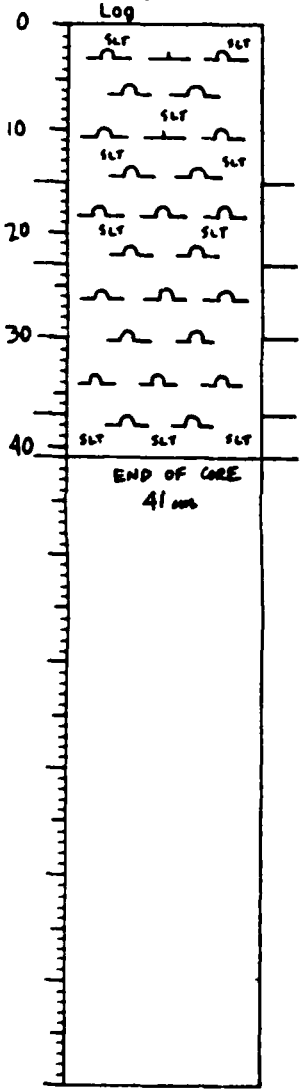
Ship: MW Core No. 5 SC
Expedition 87 Station No. 8
Leg No. 08 Total Core Length 58 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC OOZE WITH DETRITUS	15	5			25		2				48			5
10	SILIC OOZE	5	2			10						80			3
28	SILIC OOZE	10	4			10		TR				76			TR
50	SILIC OOZE WITH DETRITUS AND MICRONODULES	20	15			15		1				49			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 8 Core No. 5 BC
Total Length 41 cm. Lat. 14°59.96'S Long. 75°39.23'W Depth 135 m
Core condition GOOD Date Described 24 APR. 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-15
SILIC-CALC OOZE WITH DETRITUS
5 Y 6/2 light olive gray with some layering below 9 cm.
Very diatomaceous lutite
Core top unit has shrunken and may be slightly disturbed
G.

15-23
SILIC OOZE WITH DETRITUS
5 Y 3.5/2 dark olive gray with darker laminations
Common 5 Y 5/2 olive gray splotches (not thought to be original features)
Slightly silty diatom rich lutite
S.

23-30
SILIC OOZE
5 Y 5/4 olive with lighter and darker bands
Very diatomaceous banded lutite
S.

30-39
SILIC OOZE
5 Y 4/3 olive with lighter and darker laminations
Laminated slightly silty diatom rich lutite
S.

37-41
SILIC OOZE/DETRITUS
5 Y 4/3 olive
Slightly silty featureless lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

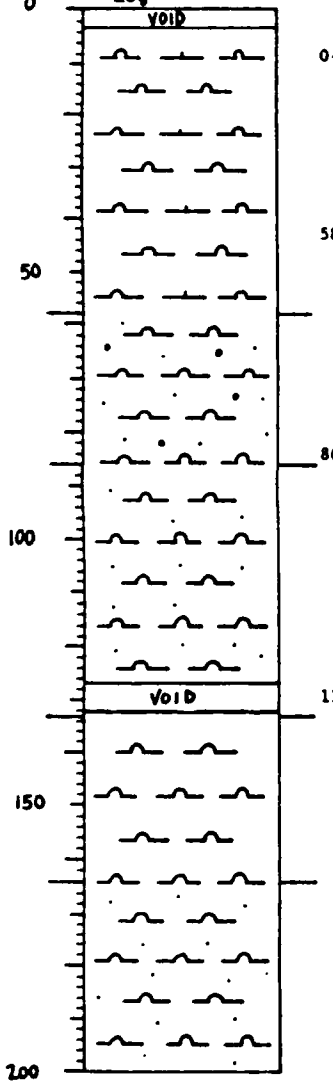
Ship: MW Core No. 5 BC
Expedition 87 Station No. 8
Leg No. 08 Total Core Length 41 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC-CALC OOZE WITH DETRITUS	15	4			20	2	3				54			2
19	SILIC OOZE WITH DETRITUS	20	10			25		2				43			TR
27	DIATOM OOZE	3	3			5						89			
33	SILIC OOZE	6	8			15						71			
40	SILIC OOZE/ DETRITUS	35	7			15		1				42			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 9 Core No 6 PC
Total Length 585 cm. Lat. 4°09.93'S Long. 75°59.53' W Depth 250 m
Core condition GOOD Date Described 11 MAR 93 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-58
SILIC-CALC OOZE
5 Y 3.5/2 dark olive gray
Silty lutite with diatom rich layers and intermittently visible microlaminations
0-3 cm. shrinkage void; diatom rich layers at 5-6 cm., 12-14 cm., and 32 cm.
S.

58-86
SILIC OOZE WITH MICRONODULES AND DETRITUS
5 Y 3/1 very dark gray
Scattered 5 Y 2/1 black and 5 Y 4/3 olive mottling
Silty lutite with scattered small diatom rich features and becoming overall diatomaceous below 84 cm.
Scattered white flakes or small shell fragments below 78 cm.
G.

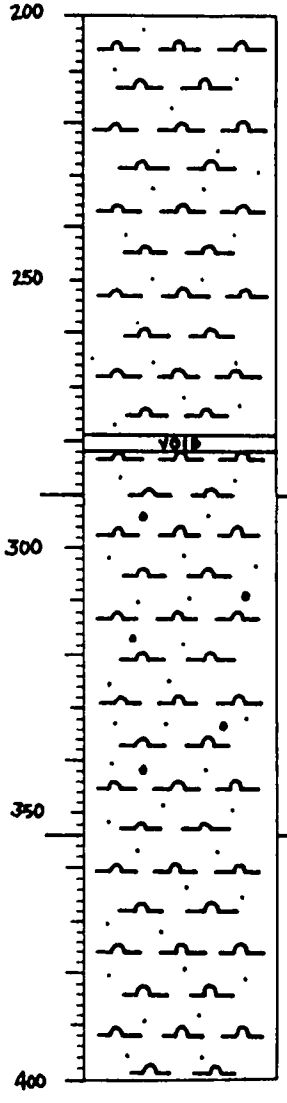
86-133
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray
Silty lutite with diatom rich laminations coinciding with shrinkage voids
Shrinkage voids at 92-93 cm. and 113-116 cm. (no sediment missing); some fine laminations present near top and bottom contacts; 127-132 cm. shrinkage void
G.

133-164
SILIC OOZE
5 Y 3.5/2 dark olive gray with groups of 5 Y 6/2 light olive gray laminations
Silty lutite with common diatom rich layers
Very light 5 Y 8/3 pale yellow layer at 159 cm.
G.

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 9 Core No 6 PC

Lithologic Log



Detailed Description

164-290
SILIC OOZE WITH DETRITUS
5 Y 4/2 olive gray and 5 Y 3/2 dark olive gray
Silty lutite with semi-stratified diatom rich regions
Greater abundances of diatoms noted from 210-213 cm., 226-241 cm., 269-285 cm.; large chalky shell fragment at 208 cm.; shrinkage void 279-282 cm.
G, textural

290-354
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 3/2 dark olive gray, 5 Y 3/1 very dark gray and 5 Y 6/3 pale olive
Unit is mottled/mixed and appears to have some slump or slide features
Silty lutite with scattered incomplete/deformed diatom rich sequences
G.

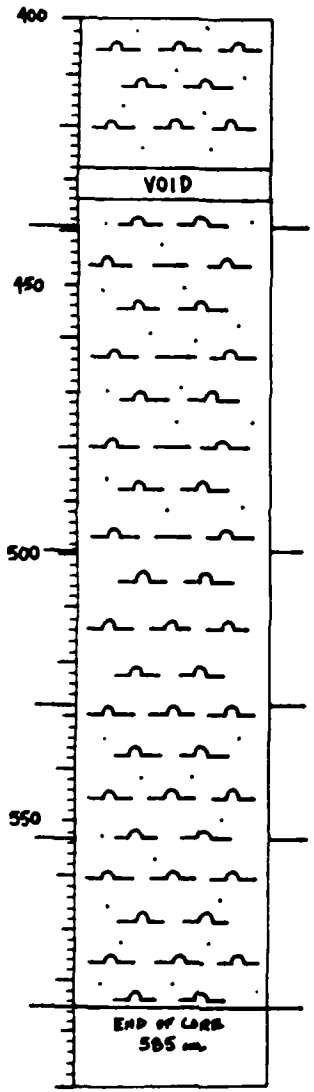
354-439
SILIC OOZE WITH DETRITUS
5 Y 3.5/2 olive gray
Silty lutite with regions of finely laminated diatom rich sediment
Diatomaceous layers concentrated in the intervals 354-360 cm., 365-370 cm., 397-401 cm., and 390-391 cm.; shrinkage voids 428-434 cm.
G.

439-499
HIGHLY SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray with faint variations
Finely laminated silty lutite
Above 463 cm., unit appears to be small blocks of reworked sediment slump altered? Below 463 cm. unit is very finely laminated down to 477 cm. where some evidence of reworking appears again.
G.

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 9 Core No. 6 PC

Lithologic Log



Detailed Description

499-528
SILIC OOZE
5 Y 3/2 dark olive gray with common 5 Y 8/2 white laminations
Stratigraphy appears to be slightly altered
Silty lutite with common dry white flecks (shell fragments)
Some stratigraphy shows apparent inclination of 10°
G.

528-553
SILIC OOZE WITH DETRITUS
5 Y 4/2.5 olive gray with thin white laminations evident below 540 cm.
Dry silty lutite with scattered white flakes
Thin 5 Y 6/3 pale olive lamination at 537 cm.
S.

553-584
SILIC OOZE WITH DETRITUS
5Y 4/3 olive
Very dry silty lutite with common white flakes
Unit is brittle and broken in several places

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 6 PC

Expedition 87 Station No. _____

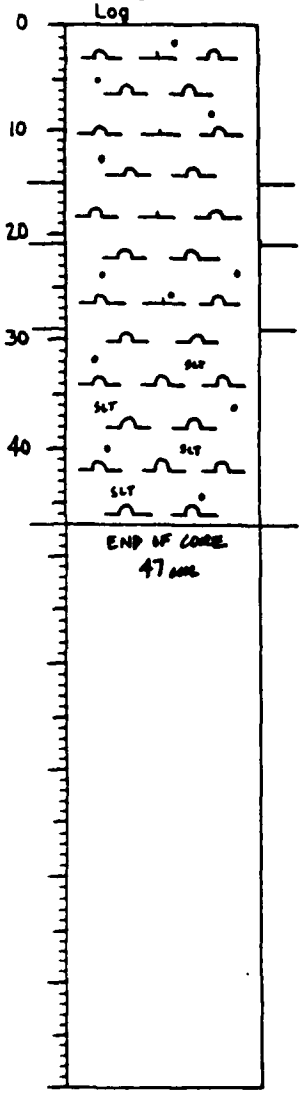
Leg No. 08 Total Core Length 585 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
4	SILIC-CALC OOZE	10	8			20	2	3				56			1
80	SILIC OOZE WITH MICRO-	15	15			28		2				40			
	NODULES AND DETRITUS														
148	SILIC OOZE	8	6			15	TR	1				70			TR
250	SILIC OOZE WITH DETRITUS	20	10			20		1				49			TR
320	SILIC OOZE WITH MICRO-	20	20			20		TR				40			
	NODULES AND DETRITUS														
410	SILIC OOZE WITH DETRITUS	20	15			25		TR				40			TR
470	HIGHLY SILIC CLAY WITH	25	10			45		TR				20			
	DETRITUS														
525	SILIC OOZE	7	8			20	2	3		TR		60			TR
575	SILIC OOZE WITH DETRITUS	15	10			20		TR				55			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 9 Core No. 6 BC
Total Length 47 cm. Lat. 14°59.93'S Long. 75°50.63'W Depth 285 m
Core condition GOOD Date Described 27 APR. 87 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-15
SILIC-CALC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray with large 5 Y 5/3 olive splotches
Large splotches not thought to be original features
Silty diatom rich lutite with common forams and other organic material
G.

15-21
SILIC-CALC OOZE
5 Y 6/3 pale olive with many lighter and darker bands and laminations
Very diatomaceous laminated lutite
S.

21-29
SILIC-CALC OOZE WITH MICRONODULES
5 Y 3/2 dark olive gray with 5 Y 5/3 olive laminations from 24-27 cm.
Few small mottles?
Slightly silty diatom rich lutite with diatomaceous laminations
S.

29-47
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 3/2 dark olive gray with fine lighter and darker laminations
Common small 2.5 Y 4/2 dark grayish brown mottles
Silty lutite (finer than above) with diatoms and scattered organic bits
Laminations are not horizontal but show wavy and inclined structures

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

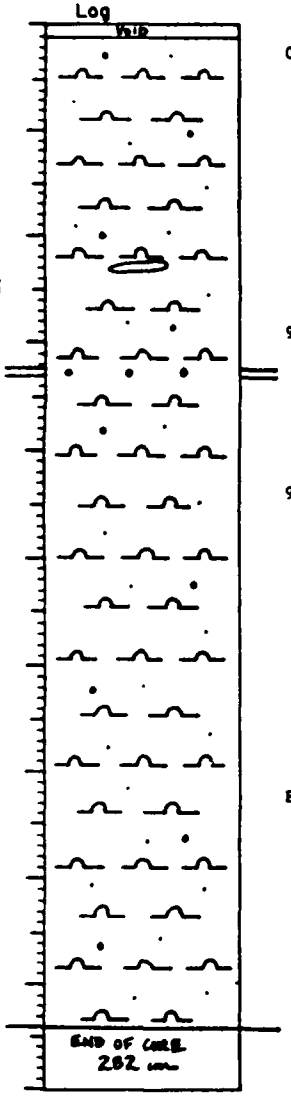
Ship: MW Core No. 6 BC
Expedition 87 Station No. 9
Leg No. 08 Total Core Length 47 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
2	SILIC-CALC OOZE WITH MICRONODULES	3	20			10	5	10				50			2
19	SILIC-CALC OOZE	3	10			15	TR	6				65			1
24	SILIC-CALC OOZE WITH MICRONODULES	4	15			13	4	7				56			1
45	SILIC OOZE WITH DETRITUS AND MICRO-NODULES	20	20			25		4				31			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 10 Core No. 7 PC
Total Length 282 cm. Lat. 16°20.0'S Long. 75°50.0'W Depth 2400 m uncorr.
Core condition GOOD Date Described 1 APRIL 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-97
SILIC OOZE WITH MICRONODULES AND DETRITUS
10 YR 3.5/2 dark olive gray with bands of 10 YR 2.5/2 black
Dry firm lutite with silt and small crystallized bits, particularly in dark bands
0-3 cm. shrinkage void; slightly disturbed 3-10 cm.; darker bands are drier and more brittle than lighter regions. Much of this core shows a fractured texture with orientation subparallel to stratification (large flat stone at 70 cm. 6x5x1 cm.)
S.

97-99
HIGHLY SILIC CLAY/MICRONODULES WITH AUTHIGENIC CRYSTALS
2.5 Y 4/4 olive brown
Very dry silty material with abundant crystallized bits
Crystalline material is reddish brown

99-282
SILIC OOZE WITH MICRONODULES AND DETRITUS
10 YR 3.5/2 dark olive gray with bands of 10 YR 2.5/2 black
Mottling, if present, is difficult to distinguish due to overall dryness and brittleness of mud
Dry silty lutite with periodic increases in crystalline material and small white flecks
Dark bands are generally 1-3 cm. in thickness and occur more regularly above 150 cm.; white flecks concentrated in the following regions: 164-166 cm., 209-215 cm. 248-249 cm. and in several other less distinct locations

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 7 PC
Expedition 87 Station No. 10
Leg No. 08 Total Core Length 282 cm

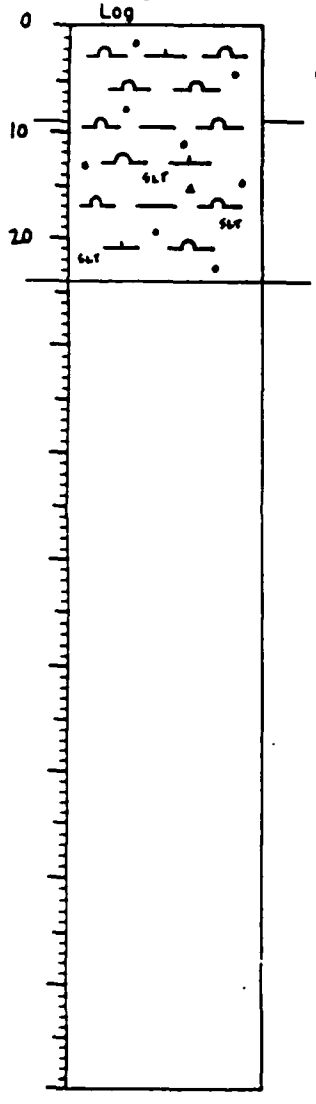
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Silicoflagellates	Diatoms	Radiolaria	Sponges	Authigenic Crystals
10	SILIC OOZE WITH MICRO-	15	20			25		TR				40			
	NODULES AND DETRITUS														
70	HIGHLY SILIC CALC CLAY /	20	30			17	8	5				20			
	MICRONODULES WITH DETRITUS														
98	HIGHLY SILIC CLAY / MICRO-	10	35			18		TR				20			17
	NODULES														
170	SILIC OOZE WITH MICRO-	20	25			16	2	2		TR		35			
	NODULES AND DETRITUS														
212	SILIC OOZE/ MICRONODULES	10	30			22	2	1			TR	35			
280	SILIC OOZE WITH MICRO-														
	NODULES AND DETRITUS	15	15			36		3			1	30			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 6 Core No. 7 BC
Total Length 24 cm. Lat. 15°11.49'S Long. 76°34.51'W Depth 500 m
Core condition GOOD Date Described 28 APRIL, 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-9

SILIC-CALC OOZE WITH MICRONODULES
5 Y 4/2 olive gray with 5 Y 5/2 mottles/splotches
Lighter mottled regions not thought to be original features
Silty diatom rich lutite with common forams
Shell fragment at 6-7 cm.
S.

9-24

HIGHLY SILIC-CALC CLAY WITH DETRITUS AND MICRONODULES
5 Y 4/2 olive gray
Scattered 5 Y 5/2 olive gray mottles
Slightly silty lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 7 BC
Expedition 87 Station No. 6
Leg No. 08 Total Core Length 24 cm

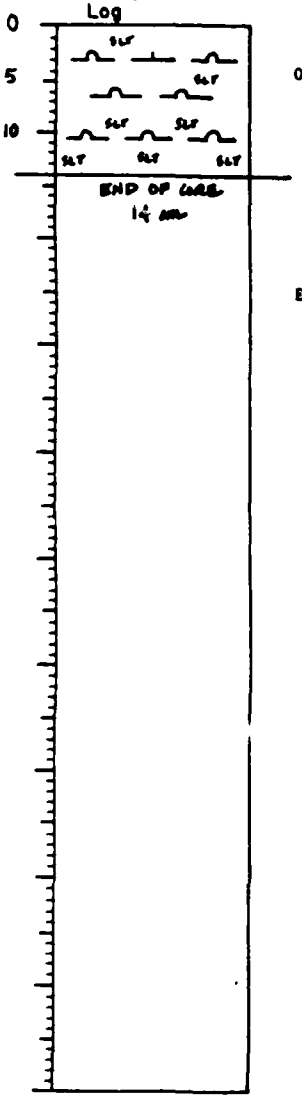
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
3	SILIC-CALC OOZE WITH	10	15			15	5	20				31			4
	MICRONODULES														
20	HIGHLY SILIC-CALC CLAY WITH	20	15			31	3	10				20			1
	DETRITUS AND MICRONODULES														

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship MW Cruise 87 Leg 08 Sta. 6 Core No 6 SC
Total Length 14 cm. Lat. 15°11.49'S Long. 75°34.51'W Depth 535 m
Core condition GOOD Date Described 22 APR, 92 by P. MILLS
Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-14

SILIC-CALC OOZE WITH DETRITUS
5 Y 3.5/1.5 dark olive gray
Common 5 Y 6/2 and 5/2 olive gray splotches above 11 cm. (these are not thought to be original features)
Slightly silty lutite with some forams above 4 cm.
Core is dry and has shrunken considerably; organic material is common above 10 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

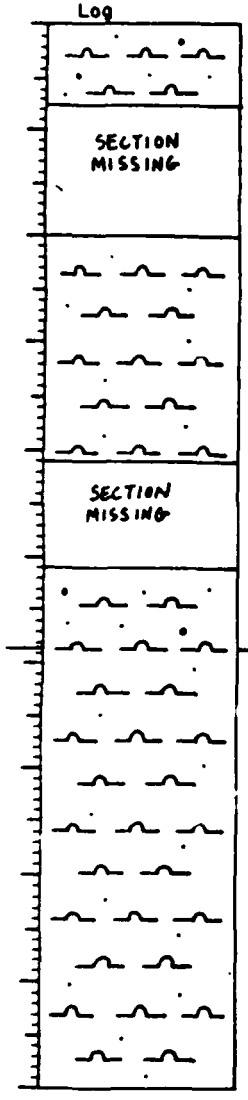
Ship: MW Core No. 6 SC
Expedition 87 Station No. 6
Leg No. 08 Total Core Length 14 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC-CALC OOZE WITH	25	6			28	2	4				35			TR
	DETRITUS														
13	SILIC OOZE/ SETRITUS	30	10			29	TR	1				30			TR

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 10 Core No 9PC
Total Length 290 cm. Lat. 15°20.0'S Long. 75°50.8'W Depth ~2700 m
Core condition FAIR Date Described 2APRIL'92 by P. MILLS
Physiographic location PERU CONTINENTAL SHELF

Lithologic Log



Detailed Description

0-15
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 3.5/2 dark olive gray becoming slightly lighter below 11 cm.
Few mottles noted near color change
Silty lutite, somewhat moist

15-40 SECTION MISSING

40-82
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray
Faint mottling?
Silty lutite, becoming dry

82-102 SECTION MISSING

102-117
SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 3/1 very dark gray
Dry brittle silty lutite
Large 5 Y 6/4 pale olive feature at 107-112 cm. with some 10 YR 6/8 brownish yellow near top
Moderately S.

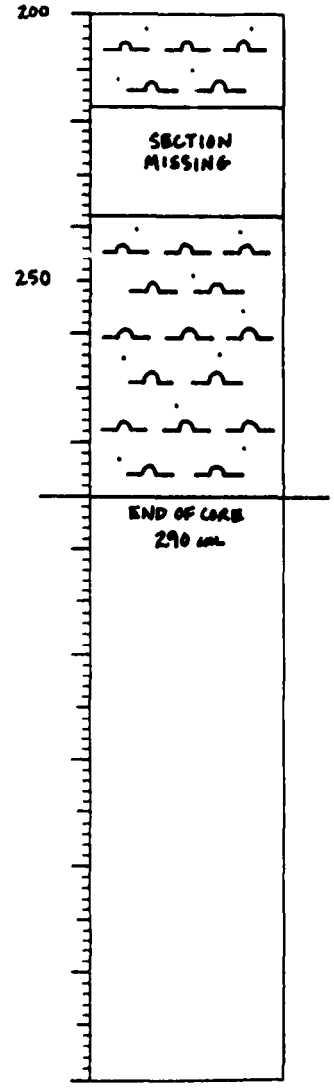
117-217
SILIC OOZE WITH DETRITUS
5 Y 4/2 olive gray with small regions of 5 Y 6/3 pale olive material
Dry silty lutite with apparent increase in diatoms
Color changes are random and do not occur as horizontal stratigraphy; small stone at 134-136 cm.; some inclined features may be slumped stratigraphy

217-238 SECTION MISSING

VISUAL CORE DESCRIPTION

Ship MW Cruise 87 Leg 08 Sta. 10 Core No 9PC

Lithologic Log



Detailed Description

238-272
SILIC OOZE WITH DETRITUS
5 Y 4/2 olive gray with common 5 Y 6/3 pale olive features
Very dry silty lutite
Some diatom rich features, folded stratigraphy?
Moderately S.

272-290
SILIC OOZE WITH DETRITUS
5 Y 3/2 dark olive gray and 5 Y 5/3 olive bands
Dry silty lutite
Section has semi-stratified appearance

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 9 PC

Expedition 87 Station No. 10

Leg No. 08 Total Core Length 290 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC OOZE WITH DETRITUS	17	15			25		1				40			2
	AND MICRO-NODULES														
60	SILIC OOZE WITH DETRITUS	25	12			11		TR				50			2
115	SILIC OOZE WITH DETRITUS	15	20			30		TR				35			TR
	AND MICRO-NODULES														
160	SILIC OOZE WITH DETRITUS	15	10			25		TR				50			TR
215	SILIC OOZE WITH DETRITUS	20	12			20		1				47			TR
285	SILIC OOZE WITH DETRITUS	15	10			25		TR				50			TR

VISUAL CORE DESCRIPTION

Page 1 of 1

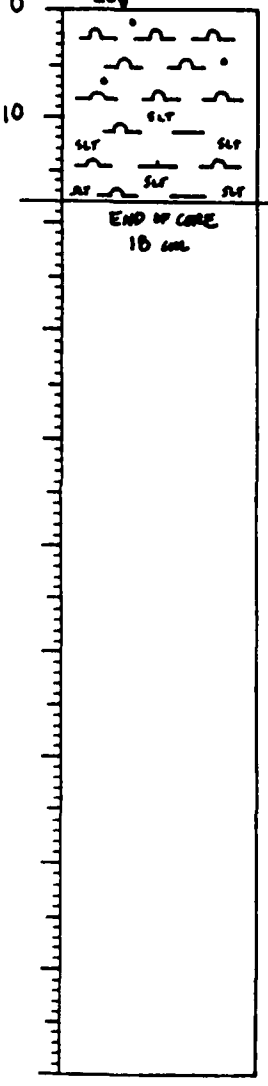
Ship MW Cruise 87 Leg 08 Sta. 10 Core No 8 BC

Total Length 18 cm. Lat. 15°20.0'S Long. 75°50.0'W Depth 2650 m uncorr.

Core condition FAIR Date Described 29 APRIL 92 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-18

SILIC OOZE WITH DETRITUS AND MICRONODULES
5 Y 4/3 olive
5 Y 6/3 pale olive splotches/mold? - not original features
Slightly silty diatom rich lutite

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 8 BC

Expedition 87 Station No. 10

Leg No. 08 Total Core Length 18 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
1	SILIC OOZE WITH DETRITUS	15	15			31	1	1				35			2
	AND MICRO_ NODULES														
17	SILIC-CALC CLAY/DETRITUS	35	10			25	3	7				20			TR

VISUAL CORE DESCRIPTION

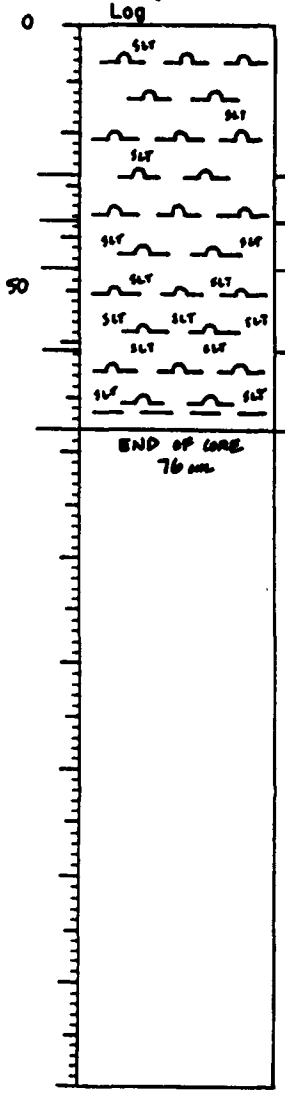
Ship MW Cruise 87 Leg 08 Sta. TT2E Core No 7 SC

Total Length 76 cm. Lat. 14°56.62' S Long. 75°36.81' W Depth ~ 110 m

Core condition GOOD Date Described 16 APRIL 87 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-28
SILIC OOZE WITH DETRITUS
5 Y 5/3 olive and 5 Y 5/2 olive gray with a slightly reddish brown cast
Faint but common 10 YR 5/2 grayish brown mottling
Slightly silty lutite with some diatom rich regions
Core is slightly disturbed above 13 cm.
C.

28-37
SILIC OOZE
5 Y 4/3 olive becoming 5 Y 7/3 pale yellow below 33 cm.
Slightly silty very diatomaceous lutite
S.

37-46
SILIC OOZE WITH DETRITUS
5 Y 4/2 olive gray with lighter and darker laminations
Slightly silty diatom rich laminated lutite
Moderately S.

46-61.5
SILIC OOZE/DETRITUS
5 Y 4/2 olive gray with slight reddish brown cast as in top unit
Very faint 5 Y 5/2 olive gray mottling
Slightly silty faintly laminated lutite
Moderately S.

61.5-76
SILIC OOZE WITH DETRITUS
5 Y 4/3 olive with many lighter and darker laminations
Slightly silty diatom rich laminated lutite
5 Y 5/1 gray clay bed at 72-73 cm. with one thin olive gray layer pinching out at edge

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 7 SC

Expedition 87 Station No. TTZE

Leg No. 08 Total Core Length 76 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
5	SILIC OOZE WITH DETRITUS	20	8			20		1				49			2
33	SILIC OOZE	9	4			15						72			TR
43	SILIC OOZE WITH DETRITUS	20	7			15		TR				58			TR
55	SILIC OOZE/ DETRITUS	35	6			24						35			
65	SILIC OOZE WITH DETRITUS	15	6			8						70			1
72	SLIGHTLY SILIC CLAY	3	10			82						5			

VISUAL CORE DESCRIPTION Page 1 of 1

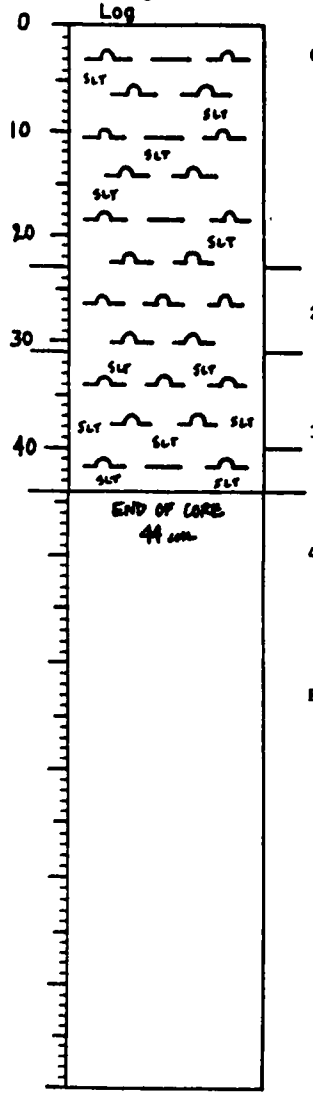
Ship MW Cruise 87 Leg 08 Sta. TTZE Core No 9BC

Total Length 44 cm. Lat. 14°56.62'S Long. 75°36.81'W Depth 110 m

Core condition GOOD Date Described 29APR.92 by P. MILLS

Physiographic location PERU CONTINENTAL MARGIN

Lithologic Log



Detailed Description

0-23
HIGHLY SILIC CLAY/DETRITUS
5 Y 4/2.5 olive but brownish below 5 cm.
Scattered grayish mottles/splotches due to mold? not thought to be original features
Slightly silty diatom rich lutite with some areas laminated
Pale olive layer at 5-6 cm.; 5 Y 5/1 gray clay layer at 12-13 cm.; pale olive lamination at 15 cm.; few authigenically formed? crystals especially at 6-7 cm.
S.

23-31
DIATOM OOZE
5 Y 5/3 olive and 5 Y 6/3 pale olive
Very diatomaceous laminated lutite
S.

31-40
SILIC OOZE WITH DETRITUS
5 Y 5/3 olive
Diatom rich lutite; some laminations
S.

40-44
HIGHLY SILIC CLAY/DETRITUS
5 Y 5/3 olive
Silty lutite
Scattered authigenically formed crystals

END OF CORE

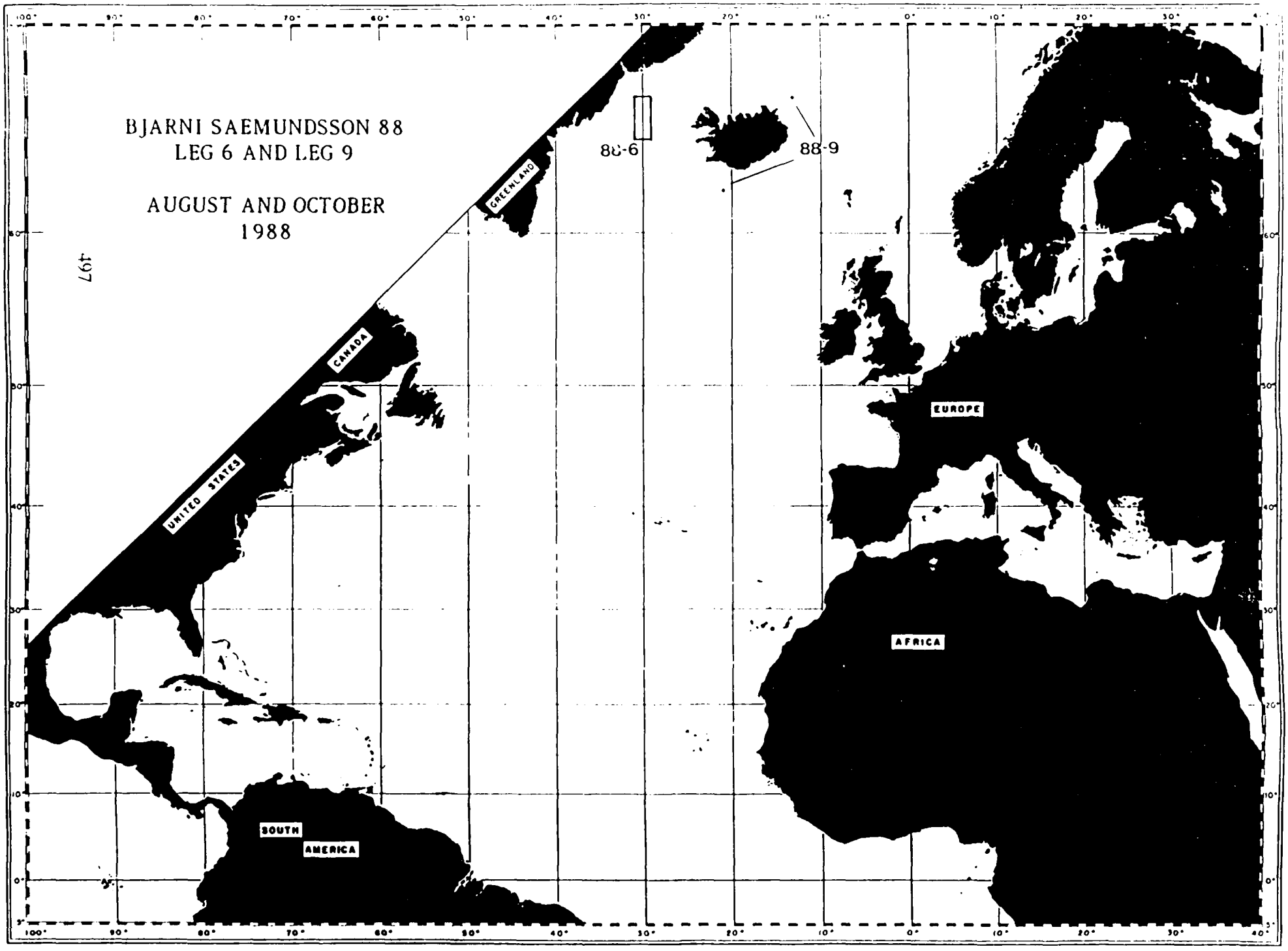
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: MW Core No. 9 BC

Expedition 87 Station No. TT2E

Leg No. 08 Total Core Length 44 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silicoflagellates
2	HIGHLY SILIC CLAY/DETRITUS	30	9			31	TR	3				25			2
27	DIATOM OOZE	5	5			15						75			
35	SILIC OOZE WITH DETRITUS	15	10			20						55			TR
43	HIGHLY SILIC CLAY/DETRITUS	55	10			15		TR				20			TR


BJARNI SAEMUNDSSON 88
LEG 6 AND LEG 9
AUGUST AND OCTOBER
1988
88-6
88-9
GREENLAND
CANADA
UNITED STATES
EUROPE
AFRICA
SOUTH
AMERICA

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
BSM	88	6	0001	0000	17	88 8 5	66 59.3'N	31 50.6'W	6	220.61	0001	250.	5.	0000	2	8250	
BSM	88	6	0002	0000	17	88 8 5	67 14.8'N	31 31.6'W	6	220.71	0002	564.	52.	0000	2	2808	
BSM	88	6	0003	0000	17	88 8 5	67 24.6'N	31 4.0'W	6	220.71	0003	631.	142.	0000	2	2808	
BSM	88	6	0004	0000	17	88 8 5	67 21.9'N	31 4.3'W	6	220.71	0004	633.	107.	0000	2	2808	
BSM	88	6	0005	0000	17	88 8 5	67 7.6'N	30 54.2'W	6	220.70	005C	713.	154.	0000	2	8280	
BSM	88	6	0006	0000	17	88 8 5	67 4.7'N	30 53.7'W	6	220.70	0006	676.	209.	0000	2	8220	
BSM	88	6	0007	0000	17	88 8 5	67 24.3'N	30 52.3'W	6	220.70	0007	696.	185.	0000	2	2802	
BSM	88	6	0008	0000	17	88 8 7	66 27.1'N	29 41.0'W	6	220.69	0008	303.	49.	0000	2	8050	
BSM	88	6	0009	0000	17	88 8 7	66 23.2'N	30 33.8'W	6	220.60	0009	459.	22.	0000	2	2050	
BSM	88	6	0010	0000	17	88 8 7	66 11.8'N	30 39.3'W	6	220.60	010B	504.	128.	0000	2	2802	
BSM	88	6	0011	0000	17	88 8 7	66 18.0'N	30 58.8'W	6	220.60	011A	510.	14.	0000	2	2850	
BSM	88	6	0012	0000	17	88 8 7	66 13.7'N	31 26.5'W	6	220.61	0012	400.	39.	0000	2	8200	
BSM	88	6	0013	0000	17	88 810	65 24.7'N	30 51.3'W	6	220.50	0013	650.	42.	0000	2	8730	
BSM	88	6	0014	0000	17	88 810	65 31.2'N	30 59.6'W	6	220.50	0014	382.	31.	0000	2	8700	
BSM	88	6	0015	0000	17	88 810	65 25.4'N	30 59.5'W	6	220.50	0015	607.	15.	0000	2	2730	
BSM	88	6	0016	0000	17	88 810	65 22.7'N	30 59.4'W	6	220.50	0016	807.	86.	0000	2	2000	
BSM	88	6	0017	0000	17	88 810	65 19.1'N	30 59.6'W	6	220.50	017A	1011.	99.	0000	2	2803	
BSM	88	6	0018	0000	17	88 810	65 22.5'N	30 27.2'W	6	220.50	0018	805.	61.	0000	2	2000	
BSM	88	6	0021	0000	17	88 810	65 34.5'N	29 32.0'W	6	219.59	0021	605.	32.	0000	2	2030	
BSM	88	6	0023	0000	17	88 810	65 27.5'N	29 32.1'W	6	219.59	0023	1008.	56.	0000	2	2000	

THERE WERE 20 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

********** STATION DATA RETRIEVAL **********
********** DATE: 7-DEC-92 09:35 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE-VICE	DATE YRMODA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO-GRAPHIC PROV.	DESC.	REMARKS
BSM	88	9	0000	0000	17	8810 0	62 59.9'N	21 31.8'W	0	219.21	0482	967.	213.	0000	15	3582	
BSM	88	9	0000	0000	17	8810 0	67 23.0'N	13 26.0'W	0	218.73	0452	1684.	109.	0000	15	3952	

THERE WERE 2 ITEMS THAT MET YOUR REQUIREMENTS.

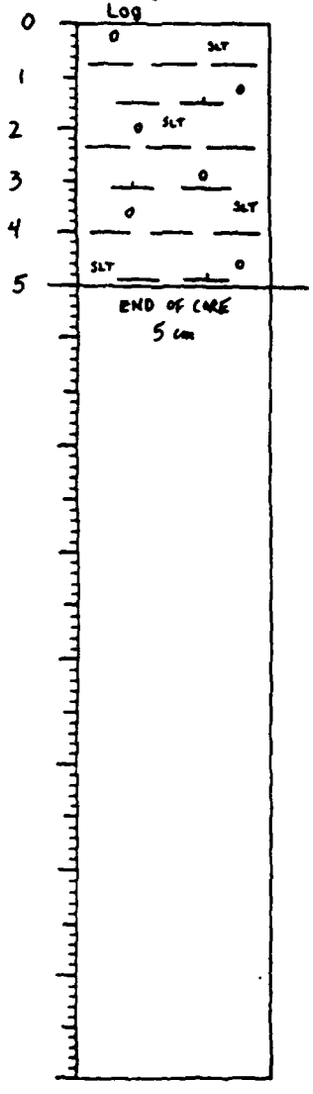
THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No. 1 GGC
Total Length 5 cm. Lat. 66°59.23'N Long. 21°50.64'W Depth 250 m corr.
Core condition FAIR Date Described 6 MAY 1990 by P. MILLS
Physiographic location GREENLAND - ICELAND SHELF

Lithologic Log



Detailed Description

0-5

SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty lutite with scattered pebbles throughout
Slightly disturbed but good coretop

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

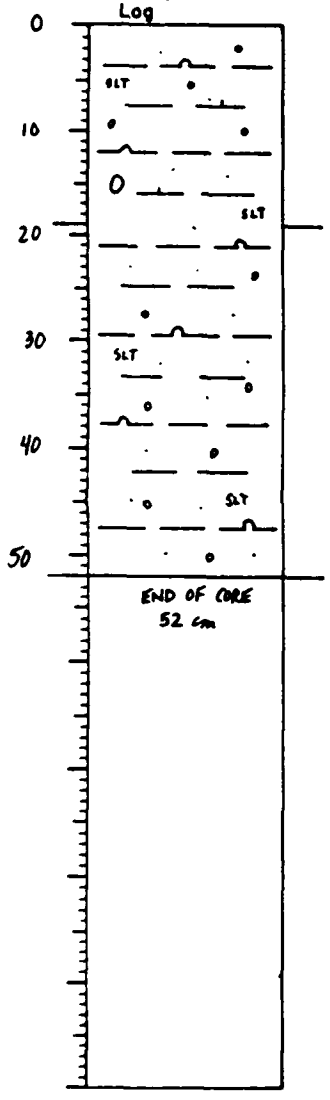
Ship: BS 88 Core No. 1 GGC
Expedition 6 Station No. _____
Leg No. 1 Total Core Length 5 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	Slightly calc clay/detritus	65	4		2	28		1				TR		

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 1 Core No 2 GGC
Total Length 52 cm. Lat. 63°14.82'N Long. 31°31.65'W Depth 564 m corr.
Core condition GOOD Date Described 17 MAY 1988 by P. MILLS
Physiographic location GREENLAND - ICELAND BASIN

Lithologic Log



Detailed Description

0-19

SILIC-CALC CLAY/DETRITUS
5 Y 4/2 olive gray
Scattered 10 YR 3/3 dark brown flecks throughout
Silty lutite with scattered pebbles and few stones
10 YR 3/3 dark brown band at 1-2 cm.; common sponge spicules noted
G.

19-52

SILIC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty compact lutite
Scattered to common pebbles throughout

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 2 GGC
Expedition 88-6 Station No. 1
Leg No. 1 Total Core Length 52 cm

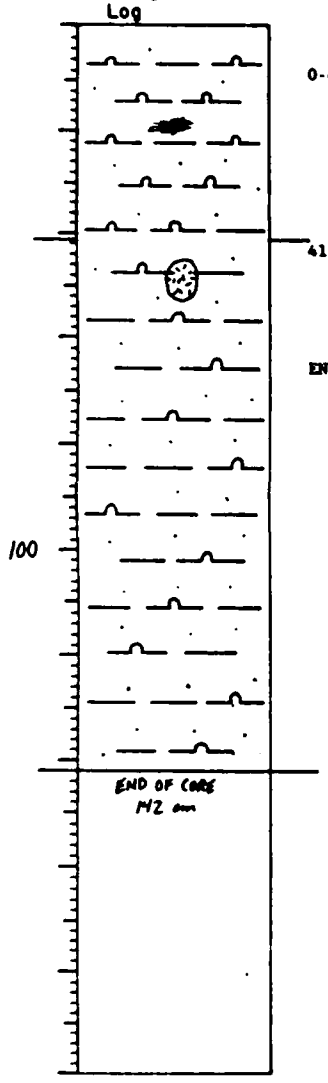
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Silic-calc clay/detritus	30	10		5	37	1	5			2	10		TR
14	Silic-calc clay/detritus	30	8		7	38	1	7			1	8		
35	Silic clay/ detritus	45	8		3	35	TR	TR			3	6		TR
50	Silic clay/ detritus	45	5		5	37		TR			1	7		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88 Leg 6 Sta. _____ Core No 3 GGC
Total Length 142 cm. Lat. 67° 24.59'N Long. 21° 03.98'W Depth 631 m corr.
Core condition GOOD Date Described 9 MAY 1990 by P MILLS
Physiographic location GREENLAND - ICELAND BASIN

Lithologic Log



Detailed Description

0-41
HIGHLY SILIC CLAY WITH DETRITUS
5Y 3/2 dark olive gray
Few 10 YR 3/4 dark yellowish brown mottles from 9-13 cm.
Silty lutite with common sponge spicules
Large sponge fragment at 18 cm.
G.

41-142
SILIC CLAY/DETRITUS
5Y 3/2 dark olive gray
Silty lutite with sponge spicules decreasing
Large 6 X 9 cm. rock removed 46-53 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

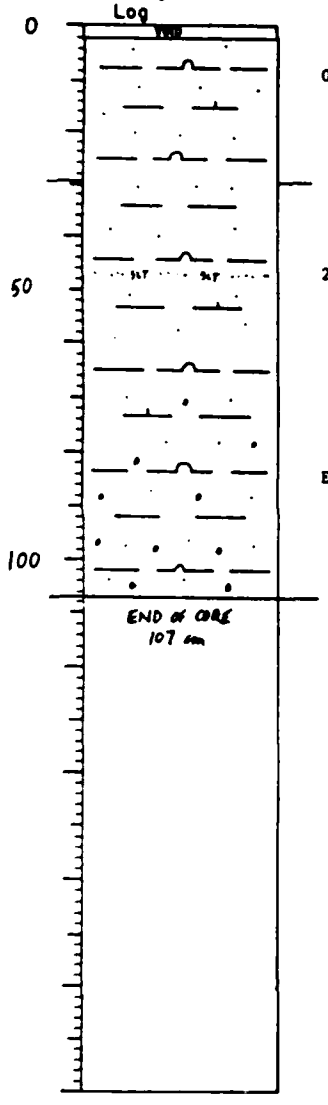
Ship: BS Core No. 3 GGC
Expedition 88 Station No. _____
Leg No. 6 Total Core Length 142 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	Highly silic clay/detritus	30			3	47	1	1			1	15		2
18	Highly silic clay with detritus	25	2		4	43	TR	1				15		10
60	Silic clay/ detritus with micronodules	36	15		3	40	TR	TR				5		1
110	Silic clay/ detritus	50	6		2	32	TR	TR				10		TR
141	Slightly silic clay/ detritus	45	5		2	44	TR	TR				4		TR

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 4 Core No. 4 GGC
Total Length 107 cm. Lat. 67°21.93'N Long. 21°04.27'W Depth 633 m corr.
Core condition GOOD Date Described 17 MAY 1990 by P MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-29
SILIC-CALC CLAY/DETRITUS
5 Y 4/2 olive gray
Silty lutite with common to abundant sponge spicules
Few regions stained with 10 YR 3/6 dark yellowish brown most notably at 2 cm. and 14 cm.; 0-2 shrinkage void
G.

29-107
SILIC CALC CLAY/DETRITUS WITH INCREASING MICRONODULES
2.5 Y 3/2 very dark grayish brown
Few black flecks below 90 cm.
Silty lutite with common spicules becoming scattered below 50 cm.
Few spicules appear below 60 cm.; silty lamination 10 YR 4/3 olive at 47 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 4 GGC
Expedition 88-6 Station No. 4
Leg No. 1 Total Core Length 107 cm

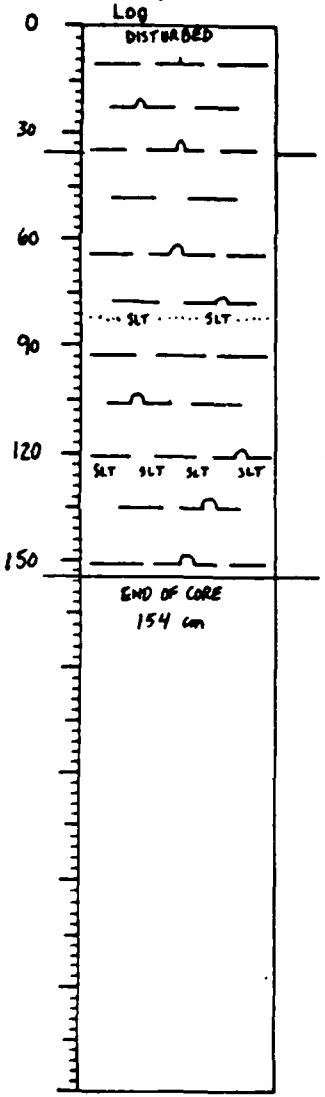
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	Silic-calc clay/detritus	30	3		5	43	TR	5				15		TR
20	Silic-calc clay/detritus	30	4		6	43	TR	7			1	10		TR
47	Silic clay/ detritus	32	3		5	50	TR	2				8		TR
70	Calc silic clay/detritus	40	8		3	32	TR	8			1	7		TR
105	Silic clay/ detritus with micronodules	45	20		5	19	TR	3				8		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. 5 Core No 5c GGC
Total Length 154 cm. Lat. 67°07.59' N Long. 20°54.24' W Depth 713 m corr.
Core condition GOOD Date Described 18 MAY, 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-36
SILIC-CALC CLAY WITH DETRITUS
5 Y 4/2 olive gray
Silty lutite with common to abundant sponge spicules noted
Top 1 cm. is stained with 10 YR 3/4 dark yellowish brown; 0-6 cm. disturbed
0.

36-154
SILIC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown grading to 2.5 Y 3/2 very dark grayish brown
Silty lutite with scattered spicules disappearing below 120 cm.
Very silty lamination at 82 cm.; silty region at 124-128 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 5C
Expedition 88-6 Station No. 5
Leg No. 1 Total Core Length 154 cm

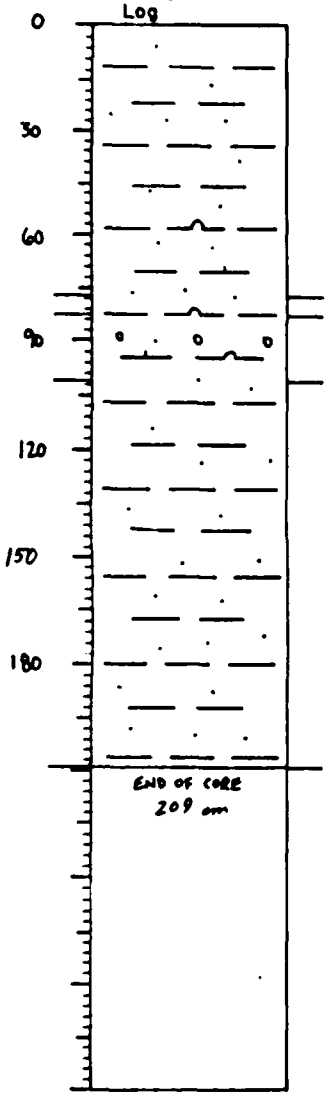
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	Silic calc clay with	27	4		8	40	1	4				15		1
	detritus													
30	Silic calc clay with	25	5		7	40	TR	8				15		TR
	detritus													
70	Silic calc clay/detritus	45	8		6	24	TR	7				10		TR
82	Slightly silic clay/detritus	75	5		3	8		4				5		
120	Slightly silic clay/detritus	65	3		3	20	TR	4				5		
153	Silic clay/ detritus	65	5		4	16	TR	3				7		

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88 Leg — Sta. 6 Core No 6 GGC
Total Length 209 cm. Lat. 67°04.72'N Long. 30°53.68'W Depth 676 m corr.
Core condition GOOD Date Described 11 MAY 1992 by P. MILLS
Physiographic location GREENLAND-KELAND BASIN

Lithologic Log



Detailed Description

0-77
UNFOSS TO SLIGHTLY CALC SILIC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty moist lutite
G

77-82
SLIGHTLY CALC SILIC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Very silty lutite with sponge spicules
G.

82-101
SILIC CALC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty moist lutite
Few rocks and pebbles noted from 88-92 cm.
G.

101-209
UNFOSS CLAY/DETRITUS
5 Y 3/1 very dark gray
Silty compact lutite
Shrinkage void 105-110 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

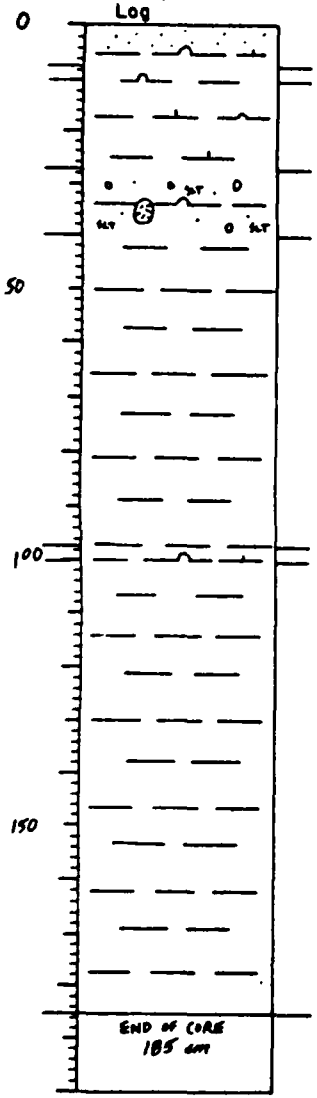
Ship: BS Core No. 6 GGC
Expedition 88 Station No. 6
Leg No. 6 Total Core Length 209 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	Unfoss clay/ detritus	50	1		2	47		TR			TR			
50	Slightly calc silic clay/ detritus	44	1		2	50	TR	2				1		TR
80	Slightly calc silic clay/ detritus	55	2		4	36	1	1			TR	1		TR
95	silic calc clay/detritus	40	3		3	41	2	3				8		TR
140	Unfoss clay/ detritus	65	5		3	32		TR			TR			
205	Unfoss clay/ detritus	45	4		2	49	TR	TR			TR			

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 7 Core No 7 GGC
Total Length 185 cm. Lat. 67°24.26'N Long. 20°52.32'W Depth 696 m corr.
Core condition GOOD Date Described MAY, 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-7
SILIC CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Silty lutite with scattered spicules
Sandy grains common above 5 cm.; 0-2 shrinkage void
G.

7-10
SLIGHTLY SILIC-CALC CLAY/DETRITUS
5 Y 4/2 olive gray with 10 YR 3/4 dark yellowish brown
Silty lutite with common spicules
G.

10-27
CALC-SILIC CLAY/DETRITUS
5 Y 4/2 olive gray
Silty lutite with scattered spicules and pebbles
G.

27-40
SLIGHTLY SILIC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Very silty lutite with scattered pebbles and few larger rocks
Large rock from 35-37 cm.
G.

40-97
UNFOSS CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
Slightly silty moist lutite
Common 10 YR 3/4 dark yellowish brown flecks
S.

97-100
CALC-SILIC CLAY/DETRITUS
5 Y 4/2 olive gray
Silty lutite with few spicules
S.

100-185
UNFOSS CLAY DETRITUS
2.5 Y 4/2 dark grayish brown
Slightly silty moist compact lutite
Common 10 YR 3/4 dark yellowish brown flecks

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 7 GGC
Expedition 88-6 Station No. 7
Leg No. 1 Total Core Length 185 cm

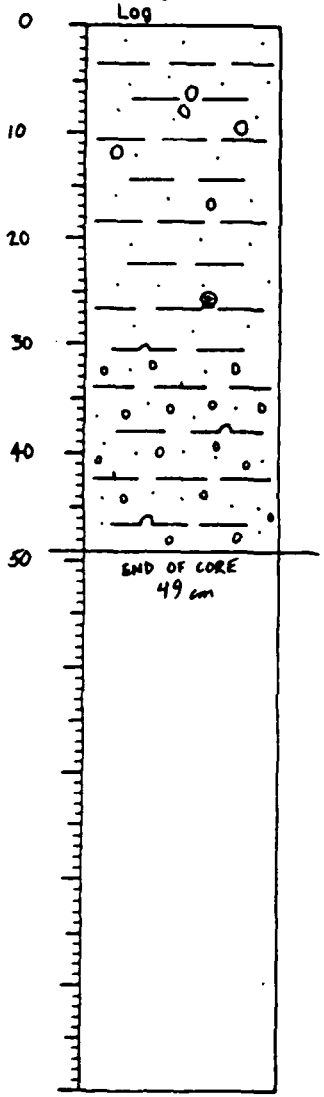
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Silic calc clay/detritus	40	3		3	43	TR	4			1	6		TR
8	Slightly silic calc clay w/ detritus	37	8		3	50	TR	1			1	4		TR
19	Calc silic clay/detritus	35	1		4	48	TR	6			1	5		TR
33	Slightly silic clay/detritus	45	8		3	42		TR				2		
70	Unfoss clay/ detritus	39	9		2	50	TR	TR				TR		
98	Calc silic clay/detritus	39	3		5	40	TR	5			2	6		TR
180	Unfoss clay/ detritus	43	5		2	50					TR			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88 Leg 6 Sta. _____ Core No 8GGC
Total Length 49 cm. Lat. 66°27.17'N Long. 29°41.00'W Depth 3023 m corr.
Core condition FAIR Date Described 10 MAY, 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-49

UNFOSS CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Sandy lutite with pebbles
Becomes silic-calc clay/detritus down core
Core is disturbed throughout but appears to have increasing sand and pebble concentration below 30 cm.; shell fragment noted 26 cm.; several large stones noted above 20 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 8 GGC
Expedition 88 Station No. _____
Leg No. 6 Total Core Length 49 cm

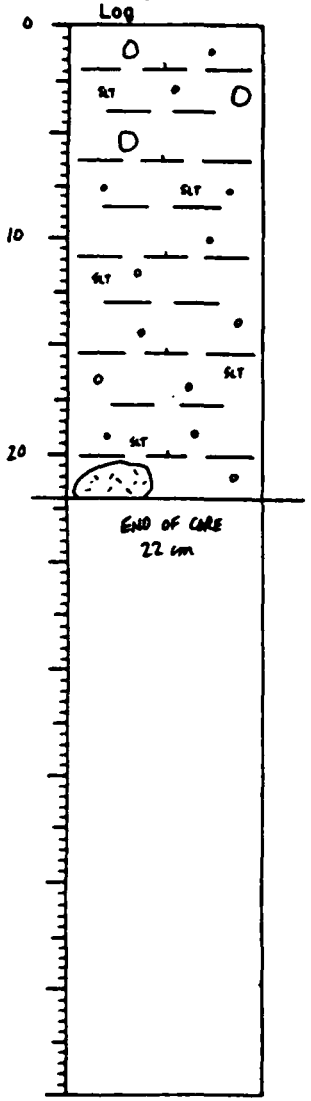
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Unfoss clay/ detritus	40	1		2	57	TR	TR						
20	Unfoss clay/ detritus	45	TR		3	52		TR						
42	Silic calc clay/detritus	30			5	51	TR	6				7		1

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No 9 GGC
Total Length 22 cm. Lat. 66°23.2 'N Long. 20°33.8 'W Depth 459 m corr.
Core condition GOOD Date Described 16 MAY, 1990 by P MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-22

SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty lutite with common pebbles throughout
Few larger rocks above 10 cm.; large rock removed from bottom of core

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

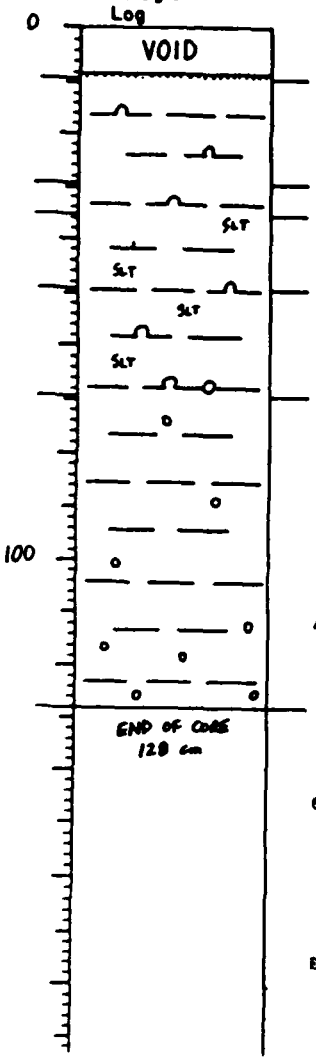
Ship: BS 88 Core No. 9 GGC
Expedition 6 Station No. _____
Leg No. 1 Total Core Length 22 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Slightly calc clay/detritus	40	6		3	50		TR			1	TR		
20	Slightly calc clay/detritus	50	4		2	43		TR			1			

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 10 Core No. 10B GGC
Total Length 128 cm. Lat. 66° 11.79 'N Long. 30° 39.30' W Depth 504 m uncr.
Core condition EXCELLENT Date Described 10 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-8
Shrinkage void

8-9
UNFOSS CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Very silty lutite
Fine sandy texture
S, irregular

9-29
SILIC CLAY WITH DETRITUS
5 Y 4/2 olive gray
Silty lutite with common sponge spicules
Sponge clumps are abundant from 18-23 cm.
S, concave upward

29-35
SILIC-CALC CLAY/DETRITUS
2.5 Y 3.5/2 dark grayish brown
Very silty lutite with scattered sponges
S, irregular

35-49
SILIC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Very silty lutite
Few sponges noted near top of unit
G.

49-69
SILIC CLAY/DETRITUS
2.5 Y 4/2 very dark grayish brown
Common 10 YR 3/4 dark yellowish brown flecks throughout
Slightly silty regions throughout; large pebble at unit base
G.

69-128
UNFOSS CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Scattered dark yellowish brown flecks throughout
Silty moist lutite
Few scattered pebbles above 110 cm.; pebbles become common to abundant below 110 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

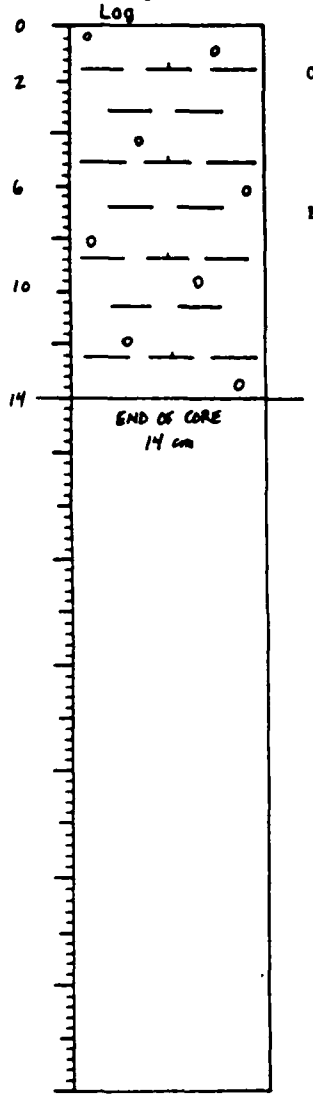
Ship: BS Core No. 10B GGC
Expedition 88-6 Station No. 10
Leg No. 1 Total Core Length 128 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	Unfoss clay/ detritus	82	10		2	5	TR	TR				1		TR
16	Silic clay w/detritus	25	3		5	46	3	3				15		TR
33	Silic calc clay/detritus	30	4		5	39	2	5	TR			15		1
42	Silic clay/ detritus	45	6		6	32	TR	1				10		TR
60	Silic clay/ detritus	45	10		7	28	TR	TR				6		
100	Unfoss clay/ detritus	65	8		3	23	TR	TR				1		
127	Unfoss clay/ detritus	60	8		3	27	1	TR				1		

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No 11A OGC
Total Length 14 cm. Lat. 66°18.00'N Long. 20°58.8'W Depth 510 m corr.
Core condition FAIR Date Described 6 MAY 1990 by P. MILLS
Physiographic location GREENLAND-KELAND BASIN

Lithologic Log



Detailed Description

0-14

SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty lutite with scattered pebbles
Slightly disturbed

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

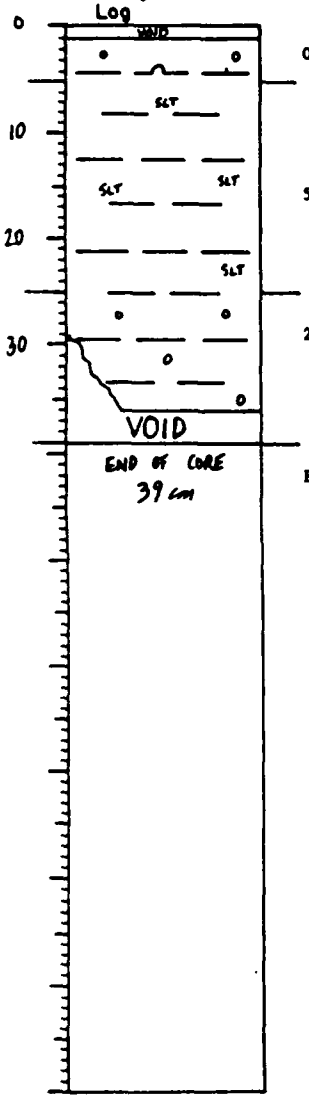
Ship: BS Core No. 11A
Expedition 88-6 Station No. _____
Leg No. 1 Total Core Length 14 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
6	Slightly calc clay/detritus	40	6		3	49		TR			2			

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 11 Core No 12 GGC
Total Length 39 cm. Lat. 66°13.68'N Long. 21°26.51'W Depth 400 m corr.
Core condition GOOD Date Described 21 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-5
CALC-SILIC CLAY/DETRITUS
2.5 Y 3/4 dark olive brown
Silty moist lutite
Few pebbles noted; 0-1 cm. shrinkage void
S, irregular

5-25
UNFOSS CLAY/DETRITUS
2.5 Y 3.5/2 very dark grayish brown
Very silty lutite
Silty regions common throughout
G.

25-39
UNFOSS CLAY/DETRITUS
Silty moist lutite
Scattered pebbles throughout; section is partially disturbed below 29 cm.; void from 36-39 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 12 GGC
Expedition 88-6 Station No. 11
Leg No. 1 Total Core Length 39 cm

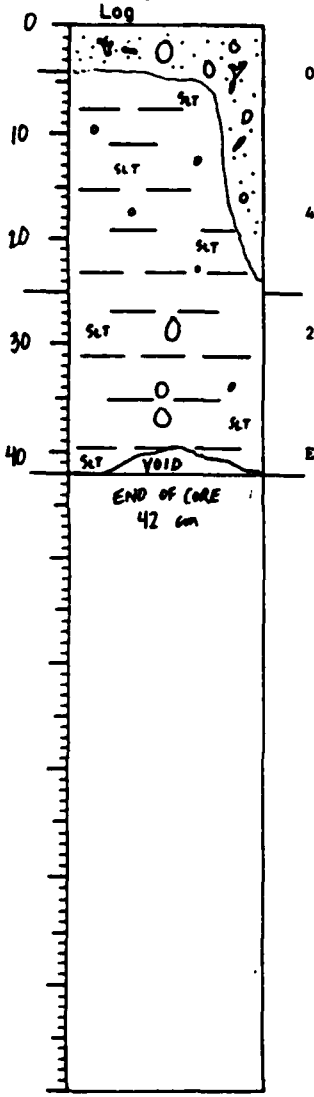
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	Calc-silic clay/detritus	40	8		2	34	2	8				5		1
17	Unfoss clay/ detritus	55	7		1	37		TR						
34	Unfoss clay/ detritus	60	6		3	31	TR	TR						

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. 13 Core No 13 GGC
Total Length 42 cm. Lat. 65°24.68'N Long. 30°51.34'W Depth 650 m corr.
Core condition GOOD Date Described 21 MAY, 1990 by P. MILLS
Physiographic location GREENLAND - ICELAND BASIN

Lithologic Log



Detailed Description

0-4
SANDY CORAL HASH
Coarse sand and coral hash with pebbles and stones
Contact becomes vertical and extends down to 24 cm. on one side
S, irregular

4-25
UNFOSS CLAY/DETRITUS
10 YR 3/3 dark brown
Very silty lutite with scattered pebbles
S.

25-42
UNFOSS CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Very silty lutite
Few large stones 29 cm., 34-36 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

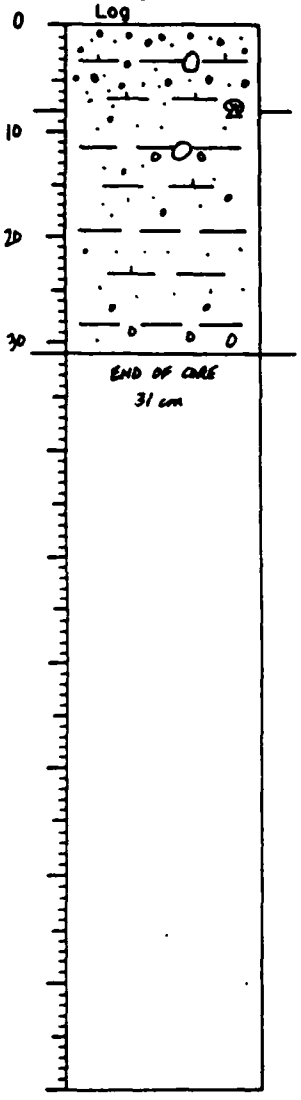
Ship: BS Core No. 13
Expedition 88-6 Station No. 13
Leg No. 1 Total Core Length 42 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
14	Unfoss clay/ detritus	60	7		4	29		TR						TR
34	Unfoss clay/ detritus	55	10		3	32		TR						

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No 14 GGC
Total Length 31 cm. Lat. 65°31.19'N Long. 30°59.6'W Depth 382 m corr.
Core condition GOOD Date Described 22 MAY 1990 by P MILLS
Physiographic location GREENLAND - ICELAND BASIN

Lithologic Log



Detailed Description

0-8

HIGHLY CALC CLAY WITH DETRITUS
Unsorted sand/shell hash with pebbles and some larger stones
Large stone at 3-4 cm.; large intact shell at 9-10 cm.
S, I 5°

8-31

SLIGHTLY CALC CLAY/DETRITUS
10 YR 3/3 dark brown
Silty lutite with sand, pebbles and few larger stones
Large stones concentrated at 12-14 cm. and below 28 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 14
Expedition 88-6 Station No. _____
Leg No. 1 Total Core Length 31 cm

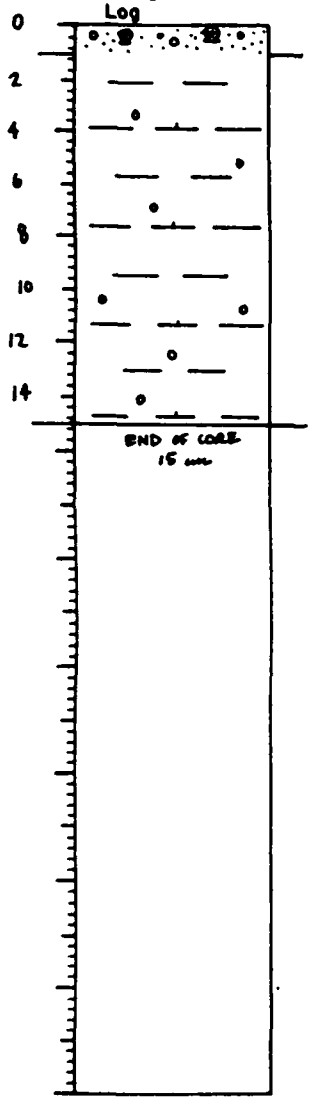
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
4	Highly calc clay with detritus	15	3		1	49	8	15	1		5	3		TR
17	Slightly calc clay/detritus with micro-nodules	40	15		1	43		TR			1			
29	Slightly calc clay/detritus	50	10		1	38		TR			1			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88 Leg 6 Sta. _____ Core No. 15GGC
Total Length 15 cm. Lat. 65°25.37'N Long. 30°59.50'W Depth 607 m corr.
Core condition FAIR Date Described 16 MAY, 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-1
SLIGHTLY CALC CLAY/DETRITUS
Many light and dark grains
Sand and shell/coral hash
Common pebbles throughout
S, irregular

1-15
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3/2 very dark grayish brown
Silty lutite
Common black pebbles

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS-88 Core No. 15 GGC
Expedition 6 Station No. _____
Leg No. 1 Total Core Length 15 cm

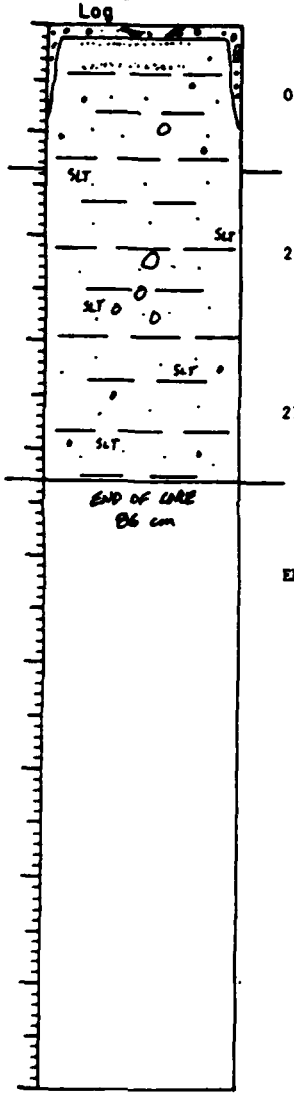
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Coral frags.
0	Slightly calc clay/detritus	90				3	5	TR							2
14	Slightly calc clay/detritus	40	5		2	50	TR	1			2	TR			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. 16 Core No. 16 GGC
Total Length 86 cm. Lat. 66° 22.72'N Long. 26°59.38'W Depth 807 m corr.
Core condition GOOD Date Described 22 MAY, 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-2
SAND/CORAL HASH
Mixed
Sandy shell/coral hash with pebbles and few larger stones
Contacts extend down to 15 cm. near liner edges
Irregular

2-27
UNFOSS CLAY/DETRITUS
10 YR 3/3 dark brown
Very silty lutite with sand and scattered pebbles
Sandy horizons at 3, 7-8 cm.; few larger stones noted
S.

27-86
UNFOSS CLAY/DETRITUS
2.5 Y 3.5/2 very dark grayish brown
Silty/sandy lutite with common pebbles
Larger stones scattered throughout but most notable at 44, 50-55 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

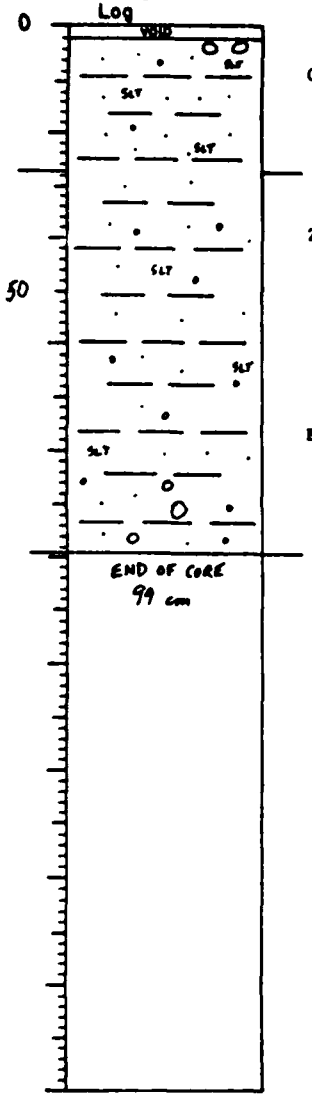
Ship: BS Core No. 16
Expedition 88-6 Station No. 16
Leg No. 1 Total Core Length 86 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	Unfoss clay/ detritus	50	10		1	39	TR	TR						
15	Unfoss clay/ detritus	45	8		2	45		TR						
50	Unfoss clay/ detritus	50	5		2	43		TR						
84	Unfoss clay/ detritus	55	8		1	36		TR			TR			

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. 17 Core No. 17A GGC
Total Length 99 cm. Lat. 65°19.15' N Long. 30°59.5' W Depth 1811 m corr.
Core condition GOOD Date Described 22 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-27
UNFOSS CLAY/DETRITUS
10 YR 3/3 dark brown
Silty to sandy lutite with scattered pebbles
Few large stones at coretop; 0-2 cm. shrinkage void
S.

27-99
UNFOSS CLAY/DETRITUS
2.5 Y 3.5/2 very dark grayish brown
Silty/sandy lutite with pebbles scattered throughout
Core is slightly disturbed at intervals 37-50,58-64, 92-99 cm.; few larger stones noted below 85 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

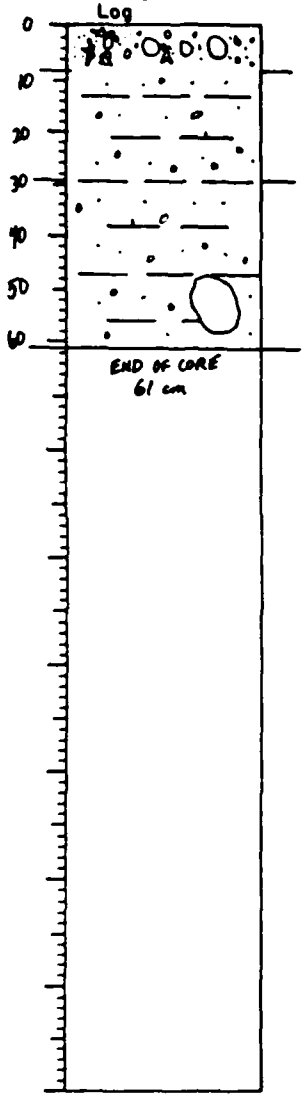
Ship: BS Core No. 17a GGC
Expedition 88-6 Station No. 17
Leg No. 1 Total Core Length 99 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	Unfoss clay/ detritus	43	10		2	45	TR	TR						
20	Unfoss clay/ detritus	44	15		1	40		TR						
60	Unfoss clay/ detritus	50	10		3	37	TR	TR						
94	Unfoss clay/ detritus	46	8		1	45		TR						

VISUAL CORE DESCRIPTION

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No 18 GGC
Total Length 61 cm. Lat. 65°22.58'N Long. 30°27.18'W Depth 805 m corr.
Core condition GOOD Date Described 23 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-8
CORAL/SHELL HASH
Sandy gravel/coral-shell hash with many larger stones
Several stones have calcareous growth coating them
S.

8-29
SLIGHTLY CALC CLAY/DETRITUS
10 YR 3/3 dark brown
Very silty lutite with scattered pebbles and few larger stones
S.

29-61
SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3.5/2 very dark grayish brown
Very silty lutite with common pebbles
Large rock 10 cm. X 10 cm. removed from 49-58 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 18 GGC
Expedition 88-6 Station No. 18
Leg No. 1 Total Core Length 61 cm

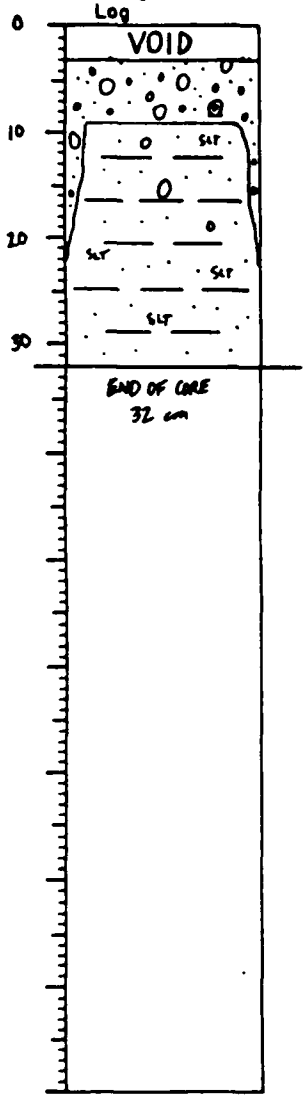
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	Slightly calc clay/detritus	60			4	35	TR	TR			1			
50	Slightly calc clay/detritus	55			1	42		1			1			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. _____ Core No 21GGC
Total Length 32 cm. Lat. 66°34.53' N Long. 29°31.96' W Depth 605 m corr.
Core condition GOOD Date Described 22 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND BASIN

Lithologic Log



Detailed Description

0-9

SANDY GRAVEL
Coarse sandy gravel with many larger stones and few shell fragments
Contact bends down at edges of liner to 22 cm.; 0-3 void
S, irregular

9-32

UNFOSS CLAY/DETRITUS
10 YR 3/3 dark brown
Very silty lutite with common pebbles
Larger stones noted at 11, 15 , 19 cm.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BS Core No. 21
Expedition 88-6 Station No. _____
Leg No. 1 Total Core Length 32 cm

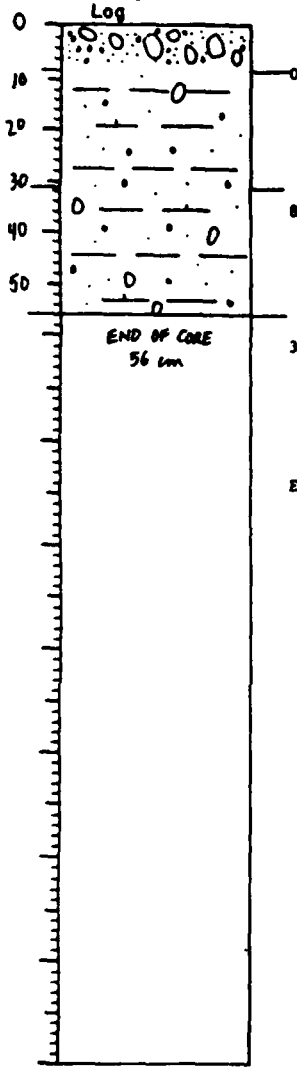
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	Unfoss clay/ detritus	60	8		1	31		TR			TR			
30	Unfoss clay/ detritus	44	6			50	TR	TR			TR			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship BS Cruise 88-6 Leg 1 Sta. 23 Core No. 23 GGC
Total Length 56 cm. Lat. 65°22.54' N Long. 29°32.11' W Depth 1008 m corr.
Core condition GOOD Date Described 28 MAY 1990 by P. MILLS
Physiographic location GREENLAND-ICELAND SHELF

Lithologic Log



Detailed Description

0-8

SANDY GRAVEL
Sandy gravel with many large stones
Larger stones show some calcareous growth on surfaces
Irregular

8-31

SLIGHTLY CALC CLAY/DETRITUS
10 YR 3/2 dark brown
Very silty lutite with common pebbles
Large stone noted at 12 cm.
S.

31-56

SLIGHTLY CALC CLAY/DETRITUS
2.5 Y 3.5/2 very dark grayish brown
Very silty lutite with pebbles and common larger stones

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

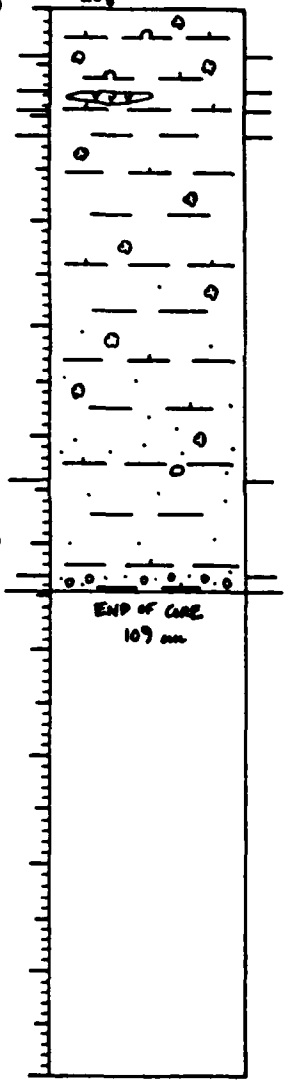
Ship: BS Core No. 23 GGC
Expedition 88-6 Station No. 23
Leg No. 1 Total Core Length 56 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10	Slightly calc clay/detritus	50	8		1	40		TR			1			
50	Slightly calc clay/detritus	45	4		TR	50		TR			1			

VISUAL CORE DESCRIPTION

Ship B. SAEMUNDSSON Cruise 88 Leg 9 Sta. _____ Core No. 452 GGC
Total Length 109 cm. Lat. 67°29 N Long. 13°26 W Depth 1684 m
Core condition Good Date Described 27 FEB. 92 by P. MILLS
Physiographic location N.E. OF ICELAND

Lithologic Log



Detailed Description

0-8
CALC-SILIC OOZE
10 YR 4.5/3 brown
Common 10 YR 3/2 very dark grayish brown mottles below 5 cm.
Silty lutite with abundant forams
S.

8-15
SILIC-CALC OOZE
10 YR 3.5/3 dark brown
Common to extensive 10 YR 3/2 very dark grayish brown mottling especially above 12 cm.
Very silty lutite with some sand and abundant forams
S, mottled

15-19
CALC CLAY WITH DETRITUS
10 YR 5/4 yellowish brown
Silty lutite with scattered forams and some sand/ash
Large 10 YR 3/1 dark gray sandy ash lens 16-17 cm.
Moderately S

19-24
SLIGHTLY CALC CLAY WITH DETRITUS
10 YR 5/2 grayish brown
Common 10 YR 5/4 yellowish brown mottling
Silty lutite with scattered small clay clasts
G.

24-88
CALC CLAY/DETRITUS
10 YR 5/4 yellowish brown with faint variations toward 10 YR 5/2 grayish brown
Common mottling and mixing noted throughout
Silty lutite with scattered small clay clasts and micronodules; scattered forams?
Unit coarsens downward; small stone at unit base; abundance of small clasts at 29-30 cm.
S.

VISUAL CORE DESCRIPTION

Ship B. SAEMUNDSSON Cruise 88 Leg 9 Sta. _____ Core No. 452 GGC

Lithologic Log

Detailed Description

88-106
CALC CLAY WITH DETRITUS
10 YR 5/3 brown
Very silty lutite with scattered small clay clasts and some sand
Large 2.5 Y 4/3 dark yellowish brown feature at 100-103 cm.; very silty lutite with sandy clasts
G.

106-109
CALC CLAY
2.5 Y 4/4 olive brown
Dry sandy gravel with some clay
Unit contains small stones and lumps of sandy clay

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BJARNI SAEMUNDSSON Core No. 452 GGC

Expedition 88 Station No. _____

Leg No. 9 Total Core Length 109 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	CALC-SILIC OOZE	4	2		2	15	9	48				20		TR
11	SILIC-CALC OOZE	3	3		5	50	4	15				20		
17	VOLCANIC ASH	1			94	5		TR						
21	SLIGHTLY CALC CLAY WITH DETRITUS	20	4		1	70	3	2				TR		
60	CALC-CLAY W/ DETRITUS	30	3		TR	61	4	2				TR		
93	CALC-CLAY W/ DETRITUS	20	3		2	68	4	3						
109	CALC CLAY	9	10		1	68	5	6	1			TR		

VISUAL CORE DESCRIPTION

Page 1 of 1

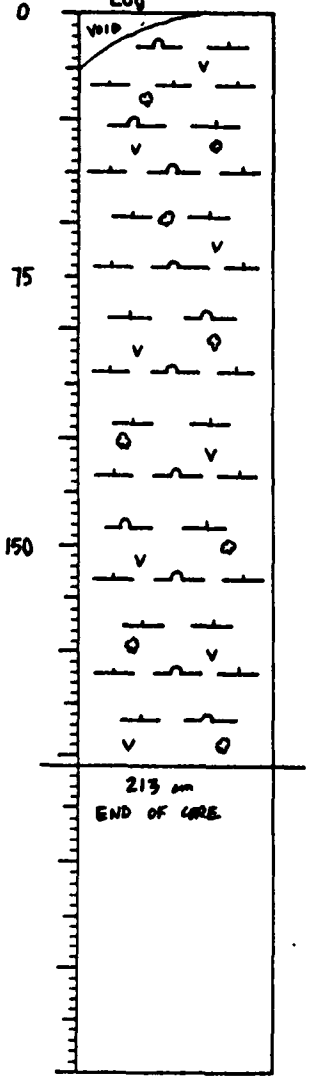
Ship B. SAEMUNDSSON Cruise 88 Leg 9 Sta. _____ Core No 482 GGC

Total Length 213 cm. Lat. 62°59.9' N Long. 21°31.8' W Depth 963 m

Core condition EXCELLENT Date Described 10 MAR. 92 by P. MILLS

Physiographic location S.W. OF ICELAND

Lithologic Log



Detailed Description

0-213

CALC-SILIC OOZE WITH VOLCANIC SHARDS
5 Y 3/1 very dark gray
Mottling appears to be common but is only very faintly recognizable; scattered regions show mottling of coarser texture especially 58-60 cm., 110-120 cm., and 185-195 cm.
Silty moist lutite with scattered forams
Large triangular void at core top due to shrinkage; extenda down to 15 cm., core is oxidized to 2.5 Y 3.5/4 dark olive brown at core top and near section breaks.

END OF CORE

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: BJARNI SAEMUNDSSON Core No. 482 GGC

Expedition 88 Station No. _____

Leg No. 9 Total Core Length 213 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)													
		Inorganic Material					Biogenous Material								
		Silt & Sand					Calcareous					Siliceous			
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges	Silico-flagellates
2	CALC-SILIC OOZE WITH														
	VOLCANIC SHARDS	5	5		20	15	5	35				15			TR
60	CALC-SILIC OOZE WITH	4	5		25	13	3	40				10			TR
	VOLCANIC SHARDS														
130	CALC-SILIC OOZE WITH	6	4		18	17	3	40				12			
	VOLCANIC SHARDS														
210	CALC-SILIC OOZE WITH	3	6		20	12	4	45				10			TR
	VOLCANIC SHARDS														

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16. Abstract (Limit: 200 words)

This report supplements Volumes 1 – 7 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975; 1977; Broda, Franks, and Keith, 1981; Broda and Andrew, 1985). It contains visual descriptions and smear slide analyses for several suites of cores received in the geological samples collection of the Woods Hole Oceanographic Institution between mid-1984 and late 1989. Approximately 220 sample localities from the North Atlantic, South Atlantic, Mediterranean and Pacific Oceans are represented. Charts of ships tracks for cruises included in this report and updated computer listings of all cores in the W.H.O.I. collection are also presented.

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