WHOI-77-26

# DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5

Prepared by
the Staff of the
Sea Floor Samples Laboratory

Edited by
D. A. Johnson and A. H. Driscoll

WOODS HOLE OCEANOGRAPHIC INSTITUTION
Woods Hole, Massachusetts 02543

MBL/WHOI
0 0301 0092851 1

April 1977

TECHNICAL REPORT

Prepared for the Office of Naval Research
under Contract N00014-74-C0262, NR 083-004;
and for the National Science Foundation
under Grant OCE76-81488.

Reproduction in whole or in part is permitted
for any purpose of the United States Government.
In citing this manuscript in a bibliography, the
reference should be followed by the phrase:
UNPUBLISHED MANUSCRIPT.

Approved for public release; distribution
unlimited.

Approved for Distribution _____

Elizabeth T. Bunce, Acting Chairman
Department of Geology & Geophysics

TABLE OF CONTENTS

Page

ABSTRACT..... 3

INTRODUCTION..... 4

A. Scope and Format of this Report..... 4
B. Summary of Description Procedures and Sediment Classification System..... 5
C. Core Biostratigraphy..... 12
D. Digitization of Geological Sample Data..... 15
E. Procedures for Obtaining Samples and Additional Core Data..... 18
F. References Cited..... 19

ACKNOWLEDGEMENTS..... 20

COMPUTER LISTING OF WHOI SEDIMENT CORES, ARRANGED BY MARSDEN SQUARES..... 21

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5..... 78

R/V ASTERIAS

AST 0975, AST 1075, AST 0776..... 79

R/V ATLANTIS II

AII 85..... 132
AII 92..... 138

R/V CHAIN

CHN 115..... 175
CHN 119 cores..... 465
CHN 119 grabs..... 685

R/V KNORR

KNR 47..... 693
KNR 51..... 718
KNR 54..... 761

LIST OF TABLES AND FIGURES

Table 1: Sediment classification system..... 8

Table 2: Tertiary cores in WHOI core collection.....13,14

Figure 1a: Sediment classification system..... 9

Figure 1b: Sediment classification system..... 10

Figure 2: Lithologic symbols..... 11

## ABSTRACT

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slide analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

# INTRODUCTION

## A. Scope and Format of this Report

Approximately two years ago we prepared and distributed a four-volume WHOI Technical Report (Johnson and Driscoll, 1975) containing descriptive and logistical data for all cores comprising the WHOI geological samples collection as of November 1973. The present report, which represents the fifth volume in the series, includes visual core descriptions and smear slide analyses for all WHOI cores obtained between November 1973 and November 1976. Not included are cores obtained during mid-1976 on cruise AII-93 in the Indian Ocean; cores from these and other expeditions in the near future will be included in Volume 6.

This compilation represents approximately 368 coring stations from the North Atlantic, Mediterranean, and South Atlantic. 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.

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
GGC - Giant gravity core
BC - Box core
CC - Camera (pogo) core
FF - Free-fall core
GR - Van Veen Grab
HC - Hydro core
KC - Kasten core
U/W - Underway bottom sampler

All cores in the WHOI collection except the giant cores and Kasten cores were obtained with conventional PVC core liner. These cores have been split and stored at room temperature in sealed polystyrene D-tubes, with moisture-saturated spongy material sealed inside the D-tubes to retard the loss of moisture from the cores. The giant piston cores and giant gravity cores were obtained without the use of core liner inside the core barrels. Upon recovery these cores were extruded into half-round cylindrical shells (150-cm length) and split longitudinally into working and archive halves. Each half was then sealed in plastic sleeving.

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 WHOI geological collection, or that such a core was never obtained. 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 core now labeled as a "10a-PC" was originally labeled "10a"; 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.

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 is included in the following reports:

(1) Johnson, D. A. and Driscoll, 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) Shephard, F. C. (1976), "Procedures for photographing WHOI sediment cores", unpublished MS.

## B. 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 the Munsell Soil Color Chart. 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 ($4\mu$ - $62\mu$), sand ($62\mu$ - 2 mm), and gravel ($> 2$ mm). Microscopic examination of smear slides is used to determine the lighology 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 descriptions 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. Verification of flow-in can be obtained by X-radiography when flow-in is suspected but cannot be demonstrated visually. Occasional multiple penetrations of either the pilot core or the piston core have been documented, and are especially well illustrated in some of the CHAIN 119 cores.

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 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 frequent comparisons between describers in order to give some assurance that percentages are being estimated with some 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 they are used in identifying the sediment type:

| Inorganic Components | Biogenic Components | |
|---|---|---|
| | Calcareous | Siliceous |
| (a) Detrital grains | (g) Foraminifera | (l) Diatoms |
| (b) Micronodules | (h) Nannofossils | (m) Radiolaria |
| (c) Zeolites | (i) Discoasters | (n) Sponges |
| (d) Volcanic shards | (j) Pteropods | (o) Silico-flagellates |
| (e) Pyrite | (k) Others | |
| (f) Clay | | |

3. Designation of sediment type

A sediment name is assigned to each sample 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 the following format:

| Descriptive Terms | Explanation |
|---|---|
| 0-112 | Depth interval (cm) |
| CALC OOZE | Sediment type |
| 10 YR 6/4 light yellowish brown | Color |
| 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 $10^{o}$ | Basal contact |

In the lithologic log on the left side of the visual description sheets, appropriate 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.

A. <u>Oozes</u>: Total biogenic material $\geq$30%

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

B. Clays: Total biogenic material <30%

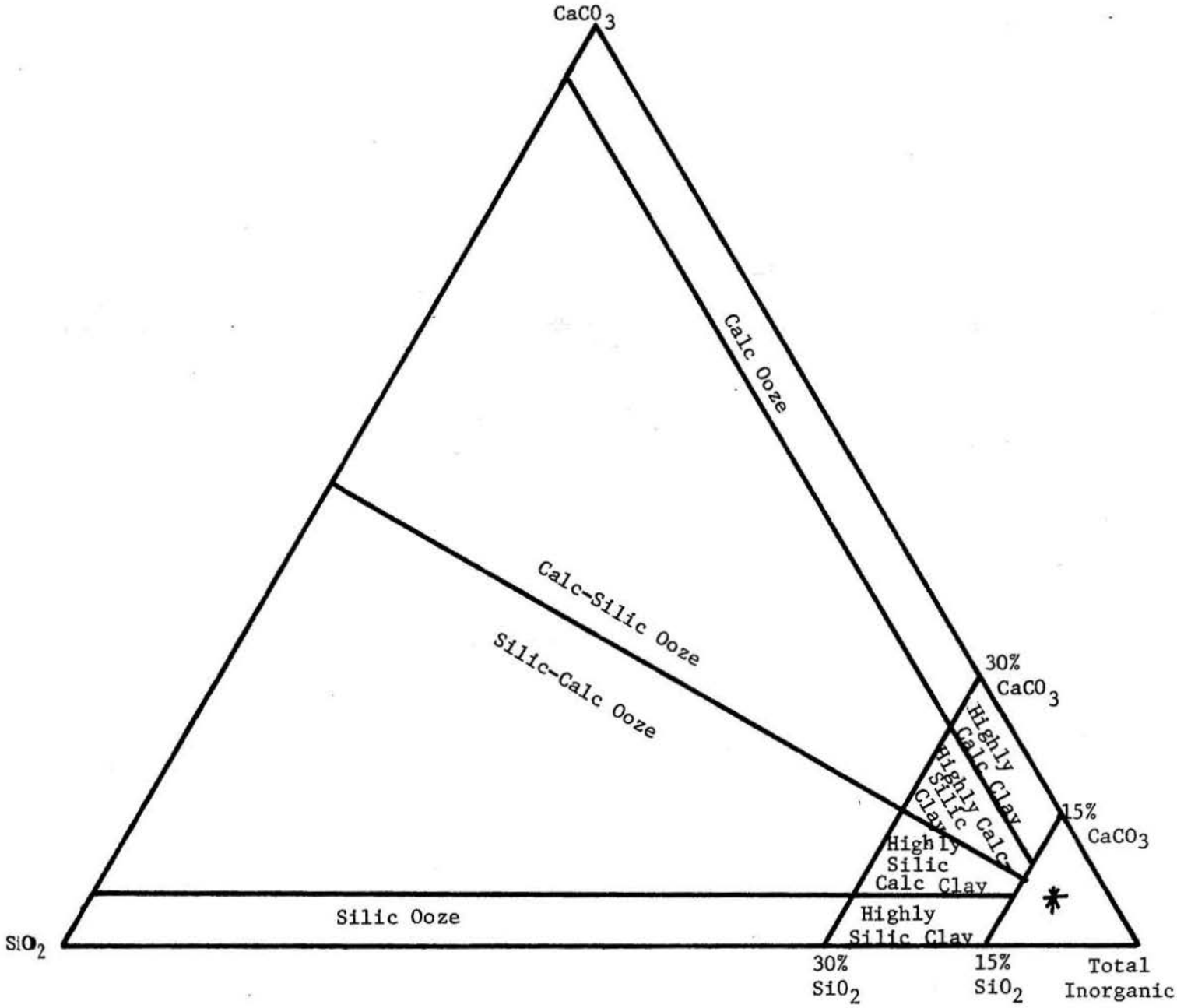
| | | |
|---|---|---|
| Highly {calcareous / siliceous} clay: | | $15\% \leq \{CaCO_3 / SiO_2\} < 30\%$ |
| {Calcareous / Siliceous} clay | | $5\% \leq \{CaCO_3 / SiO_2\} < 15\%$ |
| Slightly {calcareous / siliceous} clay: | | $1\% \leq \{CaCO_3 / SiO_2\} < 5\%$ |

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

(MAJOR SEDIMENT NAME) <u>with</u> {detrital grains / Mn micronodules / zeolites / volcanic ash / etc.}: $15\% < \{\ \} < 30\%$

(MAJOR SEDIMENT NAME) <u>/</u> {detrital grains / Mn micronodules / zeolites / volcanic ash / etc.}: $\{\ \} \geq 30\%$

FIGURE 1a: Sediment Classification System




* (see Figure 1b)

FIGURE 1b: Sediment Classification System

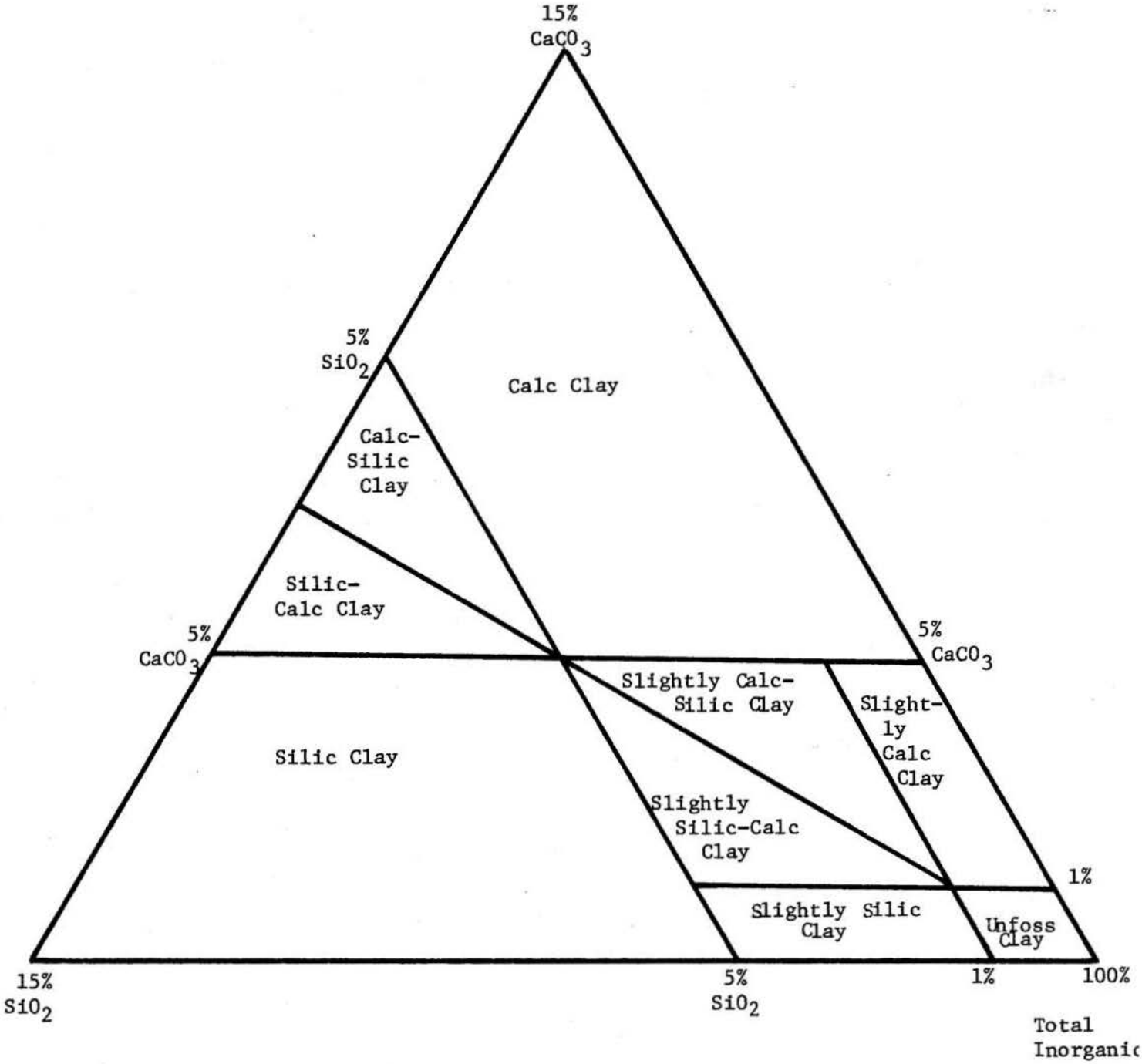
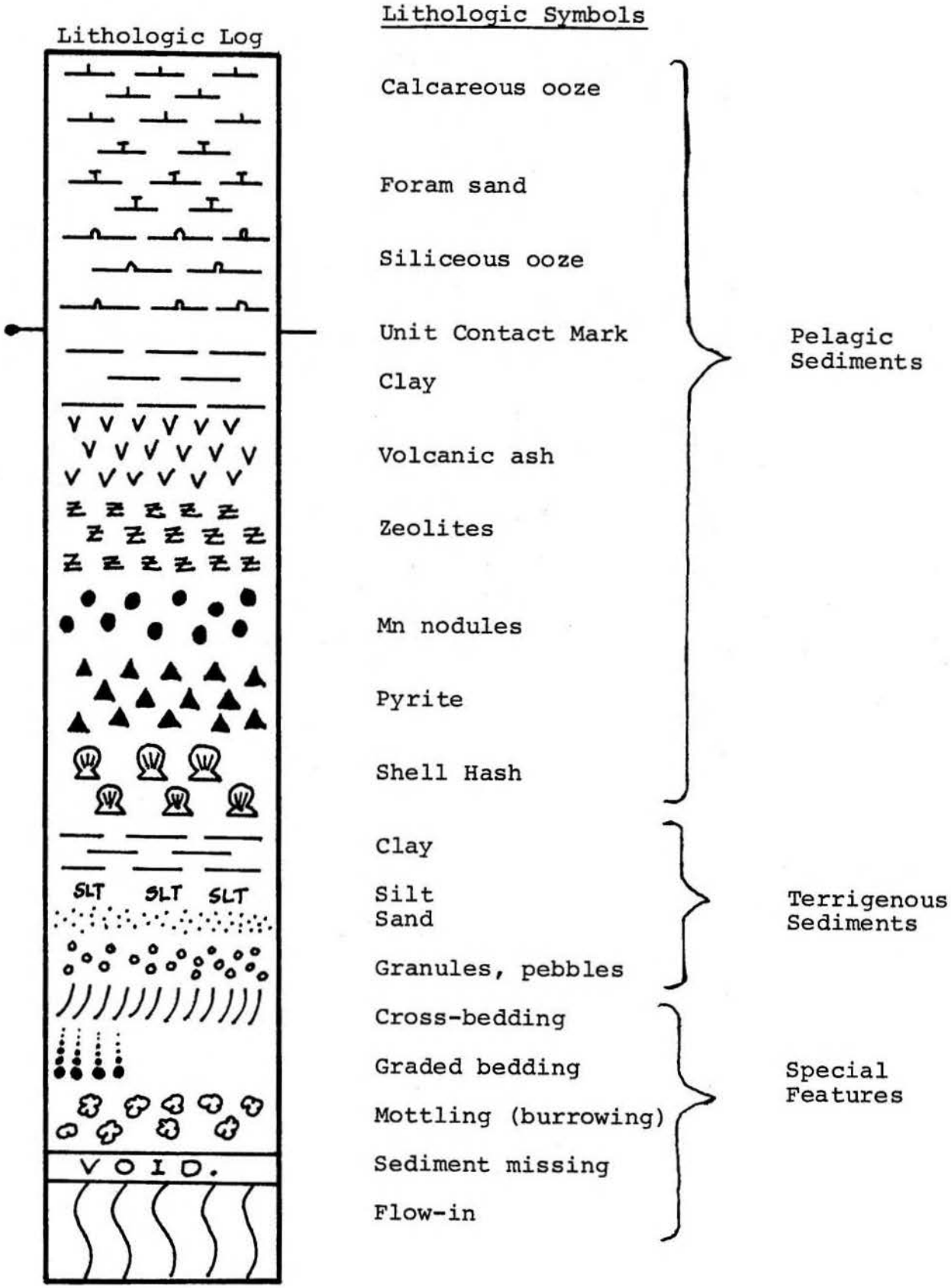


FIGURE 2: Lithologic Symbols



## C. Core Biostratigraphy

Calcareous microfossil assemblages have been examined to assign a biostratigraphic age to the top and bottom of each core. An epoch name (e.g. Pleistocene, Pliocene, etc.) was designated for each sample examined; no attempt was made to determine the specific nannofossil or foraminiferal zones. Each visual description sheet contains the age of the top and bottom of the core in the margin next to the lithologic log. Any age which is in question (e.g., Pliocene?) indicates possible reworking, to account for an assemblage of microfossils which have non-overlapping stratigraphic ranges. In cores where microfossils were absent in the bottom smear slide but were identified in overlying samples, the basal age is assumed to be the same as that of the deepest microfossil-bearing sample which was examined. In this case, the notation used is an asterisk (e.g., Pliocene*). Table 2 lists all Tertiary sediment cores in the WHOI collection, including those described in volumes 1-4 of this series as well as those included in volume 5.

TABLE 2: Tertiary Cores in WHOI Core Collection**

| Cruise No. | Core No. | Age (base of core) |
|---|---|---|
| Atlantis II - 1 | 5-PC | Pliocene |
| Atlantis II - 15 | 10-PC | Pliocene |
| Atlantis II - 31 | 15-PC | Pliocene |
| Atlantis II - 32 | 2-GC | Paleocene* |
| | 8-GC | Paleocene* |
| Atlantis II - 42 | 11-PC | Pliocene |
| | 14-PC | Pliocene |
| | 17-PC | Pliocene |
| | 18-PC | Pliocene* |
| | 19-PC | Pliocene |
| | 20-PC | Pliocene |
| | 21-PC | Pliocene* |
| Atlantis II - 49 | 40b-PC | Paleocene* |
| | 41a-PC | Paleocene* |
| Atlantis II - 54 | 5-PC | Upper Pliocene |
| | 6-PC | Middle Miocene |
| | 7-PC | Middle Miocene |
| Atlantis II - 60 | 9B-GC | Pliocene |
| Atlantis II - 92 | 1-GC | Pliocene |
| | 2-PC | Pliocene |
| | 4-PC | Pliocene |
| | 5-PC | Upper Pliocene |
| | 6-PC | Pliocene |
| | 7-PC | Pliocene |
| Chain - 13 | 1-PC | Pliocene* |
| Chain - 57 | 4-PC | Upper Eocene* |
| | 13-PC | Upper Oligocene |
| Chain - 61 | 171-PC | Upper Pliocene |
| Chain - 75 | 14-PC | Middle Miocene |
| | 22-PC | Miocene |
| Chain - 99 | 6-PC | Lower Miocene |
| | 22-PC | Pliocene* |
| | 32-PC | Pliocene |
| Chain - 100 | 28-PC | Pliocene* |
| | 75-PC | Pliocene |
| | 78-PC | Pliocene* |
| | 80-PC | Paleocene |
| | 82-PC | Lower Oligocene |
| | 87-PC | Pliocene |
| | 88-PC | Upper Oligocene |
| | 91-PC | Upper Miocene |
| | 93-PC | Lower Pliocene |
| | 94-PC | Upper Miocene |
| | 98-PC | Lower Pliocene |

TABLE 2: Tertiary Cores in WHOI Core Collection** (cont'd)

| Cruise No. | Core No. | Age (base of core) |
|---|---|---|
| Chain - 115 | 8-PC | Pliocene |
| | 23-PC | Upper Miocene |
| | 45-PC | Lower Miocene |
| | 62-PC | Pliocene* |
| | 64-PC | Upper Miocene |
| | 67-PC | Upper Miocene |
| | 70-PC | Eocene |
| | 73-PC | Middle Miocene |
| | 75-PC | Upper Miocene |
| | 76-PC | Lower Pliocene |
| | 79-PC | Middle Miocene |
| | 80-PC | Lower Miocene |
| | 81-PC | Upper Miocene |
| | 82-PC | Oligocene |
| | 84-PC | Upper Miocene |
| | 86-PC | Upper Miocene |
| Knorr - 31 | 26-GGC | Eocene |

*Bottom sample in core is devoid of microfossils. Basal age is assumed equal to that of lowermost microfossil-bearing horizon.

**Includes all cores obtained prior to November 1976.

## D. Digitization of Geological Sample Data

All logistical information about geological samples in the WHOI core collection is stored on magnetic tape and accessible through computer program MUDDIE. In addition to these 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.

A complete listing and documentation of the computer program MUDDIE is included in a recent WHOI technical report (Driscoll and Rush, 1975). The following summary explains the coded terms used in the computer listings of samples in this report:

### Ship Codes

AST - Asterias
AII - Atlantis II
CHN - Chain
KNR - Knorr

### Sample Devices

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 Types

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

00 = Unspecified - (Comment in REMARKS or on COMMENT CARD)
01 - Dead Reckoning
02 - Visual Bearing
03 - Radar Fix
04 - Celestial
05 - Loran A
06 - Loran C
07 - VLF
08 - Omega
09 - Satellite
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 acquision 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
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., Hudson Canyon)
25 Submarine Canyon (e.g., Hudson Canyon)
26 Mid-Ocean Canyon or Channel (e.g., Maury Channel, N. Atlantic Mid-Ocean Canyon)
99 Unspecified: (Comment in REMARKS or on a COMMENT CARD)

Rock or 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 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 designate special features occurring within the sample.

1 - Graded bedding or cross-bedding
2 - Extensive mottling or burrowing
3 - Manganese 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 amplify 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

Vita Code (cont'd)

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:

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, Data and Earth Sample Center, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543.

(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.

RESPONSIBILITIES OF PERSONS RECEIVING SAMPLES

(1) The original alpha-numeric samples label 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. This 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 OCE76-81488, and ONR Contract N00014-74-C-0262).

(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.

F. References Cited

Driscoll, A. H. and Rush, S. M., 1975, "W.H.O.I. geological samples data file, Volume I", Woods Hole Oceanogr. Inst. Tech. Rept. No. 75-37, 278 pp.

Johnson, D. A. and Driscoll, A. H., 1975, "Descriptions of WHOI sediment cores, Volumes I-IV", Woods Hole Oceanogr. Inst. Tech. Rept. No.75-8, 2937 pp.

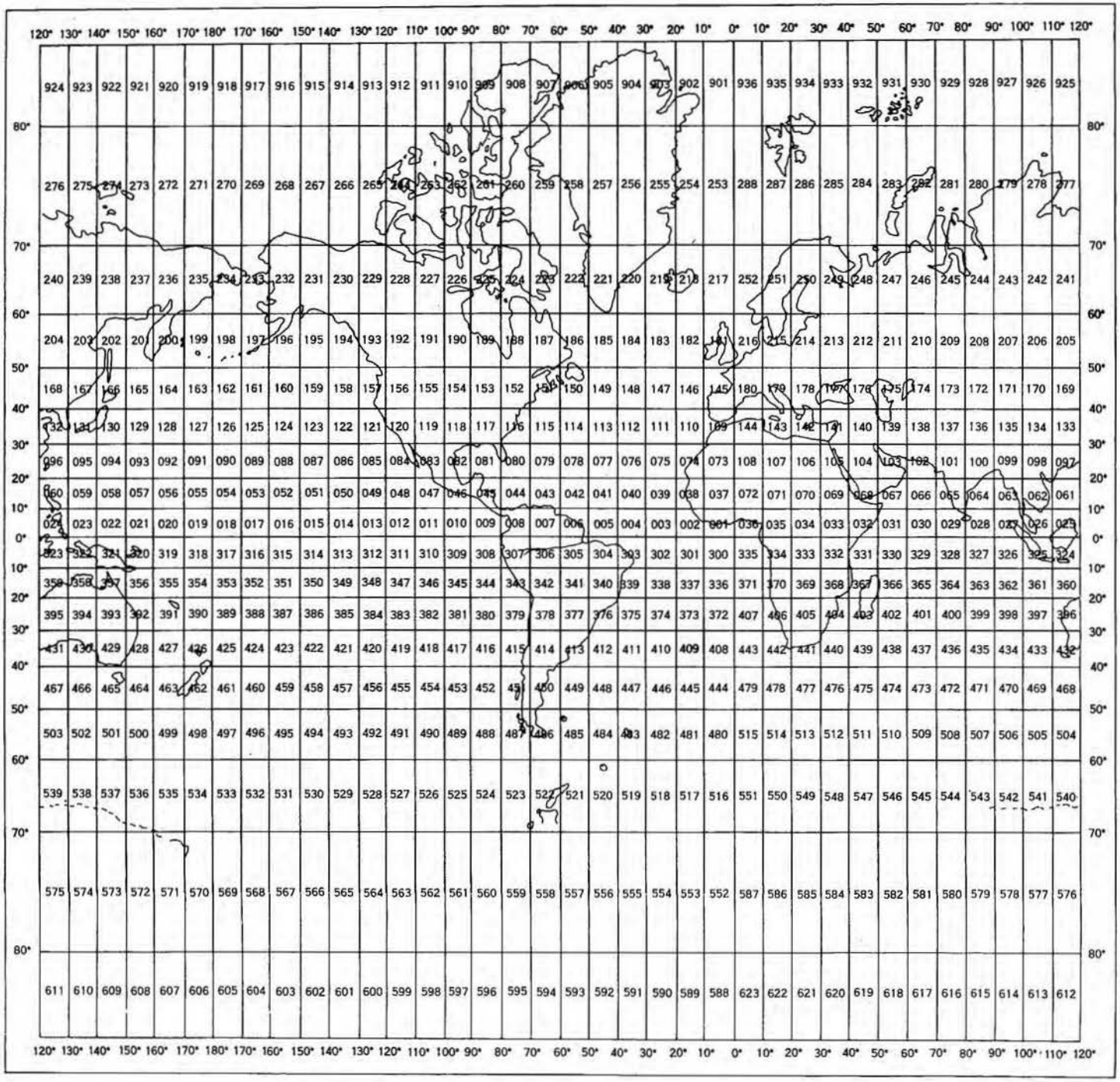
## ACKNOWLEDGMENTS

The Woods Hole core lab staff has received continuing support and encouragement from J. R. Heirtzler and J. I. Ewing, who have served as department chairmen of the Geology and Geophysics department. Financial support for the Woods Hole core lab operations have been provided by the Office of Naval Research under Contract N00014-74-C0262, NR083-004; and by the National Science Foundation under Grant No. OCE76-81488.

We have received numerous helpful suggestions from our colleagues concerning procedures for carrying out the descriptive work and presenting the results. We thank Bob Groman for frequent assistance in the operation of the MUDDIE computer program, and Bill Dunkle for his assistance in locating original cruise records and station data.

Full credit for the completion of this report is due to the careful and comprehensive work of the WHOI core lab staff: Jim Broda, Harlow Farmer, Frank Shephard, and Lynn Whiteley.

COMPUTER LISTING OF WHOI SEDIMENT CORES,
ARRANGED BY MARSDEN SQUARES


120° 130° 140° 150° 160° 170° 180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0° 10° 20° 30° 40° 50° 60° 70° 80° 90° 100° 110° 120°
80°
70°
60°
50°
40°
30°
20°
10°
0°
10°
20°
30°
40°
50°
60°
70°
80°

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 2 | | | | | | | | | | |
| CHN | 99 | 3 | 0010 | 0000 | 15 | 70 516 | 5 5.0'N | 19 32.0'W | 4 | 2.59 0009 | | 4522. | 896. | 0000 | 10 | 3738 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES;CORE EXTENSIVELY MOTTLED;GRADED BEDDING | | | | | | | | | | |
| CHN | 99 | 3 | 0010 | 0000 | 26 | 70 516 | 5 5.0'N | 19 32.0'W | 4 | 2.59 0009 | | 4522. | 154. | 0000 | 10 | 4662 | 54 | |
| CHN | 115 | 1 | 0008 | 0000 | 15 | 7312 8 | 9 16.1'N | 19 34.9'W | 1 | 2.99 0008 | | 4572. | 881. | 0000 | 13 | 3433 | 54 | |
| | | | | | **COMMENTS** | | | NUMEROUS UNUSUAL LITHIFIED PAVEMENTS FOUND 773-881 CM | | | | | | | | | | |
| CHN | 115 | 1 | 0008 | 0000 | 26 | 7312 8 | 9 16.1'N | 19 34.9'W | 1 | 2.99 0008 | | 4572. | 155. | 0000 | 13 | 3359 | 54 | |
| CHN | 115 | 1 | 0010 | 0000 | 15 | 7312 8 | 9 4.5'N | 19 35.1'W | 9 | 2.99 0009 | | 4685. | 880. | 0000 | 13 | 3532 | 54 | |
| CHN | 115 | 1 | 0010 | 0000 | 26 | 7312 8 | 9 4.5'N | 19 35.1'W | 9 | 2.99 0009 | | 4685. | 151. | 0000 | 13 | 3359 | 54 | |
| CHN | 115 | 1 | 0011 | 0000 | 15 | 7312 8 | 9 15.7'N | 19 26.4'W | 9 | 2.99 0010 | | 4168. | 885. | 0000 | 13 | 3022 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SED TYPE CALC SILIC CLAY | | | | | | | | | | |
| CHN | 115 | 1 | 0011 | 0000 | 26 | 7312 8 | 9 15.7'N | 19 26.4'W | 9 | 2.99 0010 | | 4168. | 153. | 0000 | 14 | 3032 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SED TYPE CALC SILIC OOZE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 3 | | | | | | | | | | |
| CHN | 99 | 3 | 0011 | 0000 | 15 | 70 517 | 2 4.4'N | 20 38.0'W | 4 | 3.20 0010 | | 4596. | 1135. | 0000 | 11 | 3322 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,692-1135 CM | | | | | | | | | | |
| CHN | 99 | 3 | 0011 | 0000 | 26 | 70 517 | 2 4.4'N | 20 38.0'W | 4 | 3.20 0010 | | 4596. | 81. | 0000 | 11 | 3082 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SEDIMENT TYPE,CAL-SILIC OOZE | | | | | | | | | | |
| CHN | 115 | 1 | 0005 | 0000 | 15 | 7312 4 | 9 46.4'N | 25 59.1'W | 9 | 3.95 0005 | | 5644. | 87. | 0000 | 10 | 3359 | 54 | |
| CHN | 115 | 1 | 0005 | 0000 | 26 | 7312 4 | 9 46.4'N | 25 59.1'W | 9 | 3.95 0005 | | 5644. | 151. | 0000 | 10 | 3430 | 54 | |
| | | | | | **COMMENTS** | | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | |
| CHN | 115 | 1 | 0006 | 0000 | 15 | 7312 6 | 9 30.0'N | 22 1.0'W | 1 | 3.92 0006 | | 4800. | 870. | 0000 | 10 | 0622 | 54 | |
| | | | | | **COMMENTS** | | | PRIMARY SED TYPE CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 115 | 1 | 0006 | 0000 | 26 | 7312 6 | 9 30.0'N | 22 1.0'W | 1 | 3.92 0006 | | 4800. | 153. | 0000 | 10 | 6462 | 54 | |
| CHN | 115 | 1 | 0007 | 0000 | 15 | 7312 7 | 9 8.0'N | 20 3.1'W | 1 | 3.90 0007 | | 3806. | 870. | 0000 | 13 | 3582 | 41 | |
| CHN | 115 | 1 | 0007 | 0000 | 26 | 7312 7 | 9 8.0'N | 20 3.1'W | 1 | 3.90 0007 | | 3806. | 103. | 0000 | 13 | 3522 | 41 | |
| | | | | | **COMMENTS** | | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 4 | | | | | | | | | | |
| AII | 60 | 2 | 0006 | 0000 | 15 | 71 218 | 0 53.9'N | 38 23.7'W | 9 | 4.08 0006 | | 4488. | 290. | 0000 | 10 | 3932 | 41 | |
| AII | 60 | 2 | 0006 | 0000 | 26 | 71 218 | 0 53.9'N | 38 23.7'W | 9 | 4.08 0006 | | 4488. | 49. | 0000 | 10 | 3932 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 5 | | | | | | | | | | |
| AII | 31 | 1 | 0006 | 0000 | 15 | 67 415 | 9 38.5'N | 43 37.0'W | 4 | 5.93 0006 | | 4757. | 565. | 0000 | 19 | 3349 | 0 | |
| AII | 31 | 1 | 0009 | 0000 | 15 | 67 417 | 9 35.0'N | 42 47.0'W | 1 | 5.92 0009 | | 4355. | 577. | 0000 | 19 | 3342 | 0 | |
| AII | 31 | 1 | 0009 | 0000 | 26 | 67 417 | 9 35.0'N | 42 47.0'W | 1 | 5.92 0009 | | 4355. | 121. | 0000 | 19 | 3342 | 0 | |
| AII | 31 | 1 | 0010 | 0000 | 15 | 67 417 | 9 46.3'N | 41 50.0'W | 1 | 5.91 0010 | | 3711. | 314. | 0000 | 19 | 0049 | 0 | |

```
***************        STATION DATA RETRIEVAL        ***************
***************        DATE: 001017:38 JUN 08        ***************
***************        STATION DATA RETRIEVAL        ***************
***************        DATE:
```

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| AII | 31 | 1 | 0011 | 0000 | 15 | 67 418 | 9 58.0'N | 40 51.3'W | 1 | 5.90 | 0011 | 3469. | 182. | 0000 | 19 | 3869 | 0 | |
| AII | 31 | 1 | 0011 | 0000 | 26 | 67 418 | 9 58.0'N | 40 51.3'W | 1 | 5.90 | 0011 | 3469. | 45. | 0000 | 19 | 3322 | 0 | |
| AII | 60 | 2 | 0005 | 0000 | 15 | 71 216 | 5 1.0'N | 44 14.0'W | 1 | 5.54 | 0005 | 3706. | 219. | 0000 | 11 | 3322 | 41 | |
| AII | 60 | 2 | 0005 | 0000 | 26 | 71 216 | 5 1.0'N | 44 14.0'W | 1 | 5.54 | 0005 | 3706. | 98. | 0000 | 11 | 3322 | 0 | |
| CHN | 115 | 8 | 0159 | 0000 | 13 | 74 617 | 1 12.2'N | 48 50.9'W | 1 | 5.18 | 0093 | 8. | 78. | 0000 | 2 | 1819 | 0 | |
| CHN | 115 | 8 | 0160 | 0000 | 13 | 74 617 | 1 37.5'N | 49 1.0'W | 1 | 5.19 | 0094 | 10. | 128. | 0000 | 2 | 1861 | 0 | |
| | | | | | | | 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| | | | | | | | MARSDEN SQUARE # 9 | | | | | | | | | | | |
| AII | 54 | 2 | 0001 | 0000 | 15 | 69 11 2 | 4 53.1'N | 83 25.9'W | 9 | 9.43 | 0001 | 3395. | 868. | 0000 | 11 | 3567 | 0 | |
| AII | 54 | 2 | 0001 | 0000 | 26 | 6911 2 | 4 53.1'N | 83 25.9'W | 9 | 9.43 | 0001 | 3395. | 164. | 0000 | 11 | 3569 | 0 | |
| | | | | | | | MARSDEN SQUARE # 10 | | | | | | | | | | | |
| CHN | 21 | 1 | 0003 | 0000 | 15 | 611011 | 39 57.8'N | 12 18.5'E | 1 | 10.92 | 0003 | 3534. | 0. | 0000 | 21 | 0000 | 0 | IN JAR |
| | | | | | | | MARSDEN SQUARE # 29 | | | | | | | | | | | |
| 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 | 3469 | 0 | |
| 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 | 3439 | 0 | |
| | | | | | **COMMENTS** | | SEVERAL SMALLS VOIDS IN CORE | | | | | | | | | | | |
| 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 | 0355 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| 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 | 4452 | 0 | |
| 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 | 4349 | 0 | |
| 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 | 3059 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 15 | 6 | 0629 | 0000 | 13 | 65 415 | 4 59.0'N | 71 14.0'E | 0 | 29.47 | 0629 | 4014. | 76. | 0000 | 11 | 4032 | 0 | |

```
***************        STATION DATA RETRIEVAL        ***************                                PAGE 3
***************        DATE: 001017:38 JUN 08        ***************                                **WHOI**
***************        STATION DATA RETRIEVAL        ***************                                PAGE 1803417591
***************        DATE:
```

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| 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 | 3731 | 0 | |
| 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 | 3329 | 0 | |
| 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 | 3021 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 3969 | 0 | |
| 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 | 3329 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,510-564 CM | | | | | | | | | | | |
| 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 | 3329 | 0 | |
| 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 | 3567 | 0 | |
| 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 | 3567 | 0 | |
| | | | | | | | MARSDEN SQUARE # 30 | | | | | | | | | | | |
| AII | 15 | 4 | 0572 | 0000 | 18 | 65 311 | 9 13.0'N | 60 13.0'E | 9 | 30.90 | 0572 | 3705. | 100. | 0000 | 15 | 3322 | 0 | |
| 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 | 3731 | 0 | |
| | | | | | **COMMENTS** | | SEDIMENT POND ON HIGH FLATS W. CARLBERG RIDGE | | | | | | | | | | | |
| 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 | 3322 | 0 | |
| 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 | 3029 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC-SILIC OOZE,FLOW-IN,743-789 CM | | | | | | | | | | | |
| 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 | 3352 | 0 | |
| | | | | | | | MARSDEN SQUARE # 31 | | | | | | | | | | | |
| 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 | 0019 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 0029 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| AII | 15 | 4 | 0559 | 0000 | 18 | 65 3 2 | 8 54.0'N | 51 37.0'E | 9 | 31.81 | 0559 | 3797. | 104. | 0000 | 4 | 3959 | 0 | |
| 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 | 3342 | 0 | |
| 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 | 3959 | 0 | |
| 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 | 0649 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE, VOID 469-915, FLOW IN 915-988 | | | | | | | | | | | |
| 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 | 0342 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| 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 | 0059 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 0000 | 0 | NOSE CONE |
| | | | | | **COMMENTS** | | CONTAINER SAMPLE | | | | | | | | | | | |
| 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 | 0049 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| | | | | | **COMMENTS** | | NUMEROUS VOIDS THROUGHOUT | | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 31 | | | | | | | | | | |
| 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 | 3029 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| 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 | 4661 | 0 | |
| | | | | | **COMMENTS** | | NUMEROUS VOIDS THROUGHOUT, FLOW IN 822-1179 CM | | | | | | | | | | | |
| 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 | 0059 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 0369 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| 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 | 3469 | 41 | |
| 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 | 3569 | 41 | |
| CHN | 43 | 1 | 0069 | 0000 | 15 | 64 530 | 2 49.0'N | 59 41.0'E | 1 | 31.29 | 0023 | 4215. | 325. | 0000 | 15 | 4969 | 41 | |
| | | | | | **COMMENTS** | | FLOW-IN 70-325 | | | | | | | | | | | |
| 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 | 3562 | 0 | CHN RIDGE |
| | | | | | **COMMENTS** | | FLOW-IN,355-570 CM | | | | | | | | | | | |
| 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 | 3569 | 0 | CHN RIDGE |
| 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 | 3021 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 3569 | 0 | |
| 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 | 3328 | 0 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES, MOTTLING AND MN NODULES | | | | | | | | | | | |
| 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 | 3322 | 0 | |
| 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 | 0731 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,SILIC CALC OOZE | | | | | | | | | | | |
| 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 | 3359 | 0 | |
| CHN | 100 | 4 | 0042 | 0000 | 15 | 71 413 | 4 27.4'N | 51 8.0'E | 1 | 31.41 | 0030 | 5049. | 1108. | 0000 | 10 | 0338 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,SILIC CALC OOZE,SPECIAL FEATURES:MOTTLING AND MN | | | | | | | | | | | |
| CHN | 100 | 4 | 0042 | 0000 | 26 | 71 413 | 4 27.4'N | 51 8.0'E | 1 | 31.41 | 0030 | 5049. | 98. | 0000 | 10 | 3539 | 0 | |
| CHN | 100 | 4 | 0043 | 0000 | 15 | 71 415 | 3 13.7'N | 52 23.3'E | 1 | 31.32 | 0031 | 5115. | 254. | 0000 | 10 | 5369 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,44-254 CM | | | | | | | | | | | |
| CHN | 100 | 4 | 0043 | 0000 | 26 | 71 415 | 3 13.7'N | 52 23.3'E | 1 | 31.32 | 0031 | 5115. | 104. | 0000 | 10 | 3569 | 0 | |
| CHN | 100 | 4 | 0044 | 0000 | 15 | 71 416 | 3 14.2'N | 52 41.0'E | 1 | 31.32 | 0032 | 5123. | 959. | 0000 | 10 | 5331 | 0 | |
| CHN | 100 | 4 | 0044 | 0000 | 26 | 71 416 | 3 14.2'N | 52 41.0'E | 1 | 31.32 | 0032 | 5123. | 137. | 0000 | 10 | 0029 | 0 | |
| | | | | | **COMMENTS** | | PRIM. SED. TYPE: SILIC-CALC OOZE, SEC. SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 4 | 0045 | 0000 | 15 | 71 416 | 3 8.0'N | 52 38.3'E | 1 | 31.32 | 0033 | 5126. | 1014. | 0000 | 10 | 3531 | 0 | |
| | | | | | **COMMENTS** | | VOID,232-385 CM AND NUMEROUS SMALLER ONES AS WELL;FLOW-IN,820-1014 CM | | | | | | | | | | | |
| CHN | 100 | 4 | 0045 | 0000 | 26 | 71 416 | 3 8.0'N | 52 38.3'E | 1 | 31.32 | 0033 | 5126. | 152. | 0000 | 10 | 5369 | 0 | |
| CHN | 100 | 4 | 0046 | 0000 | 15 | 71 417 | 2 52.0'N | 50 13.0'E | 1 | 31.20 | 0034 | 5004. | 895. | 0000 | 10 | 3567 | 0 | |
| CHN | 100 | 4 | 0046 | 0000 | 26 | 71 417 | 2 52.0'N | 50 13.0'E | 1 | 31.20 | 0034 | 5004. | 106. | 0000 | 10 | 3469 | 0 | |
| CHN | 100 | 4 | 0047 | 0000 | 15 | 71 418 | 0 55.8'N | 53 18.3'E | 1 | 31.03 | 0035 | 5101. | 1064. | 0000 | 10 | 3561 | 0 | |
| CHN | 100 | 4 | 0047 | 0000 | 26 | 71 418 | 0 55.8'N | 53 18.3'E | 1 | 31.03 | 0035 | 5101. | 111. | 0000 | 10 | 5739 | 0 | |
| CHN | 100 | 5 | 0049 | 0000 | 15 | 71 427 | 1 4.7'N | 53 30.0'E | 1 | 31.13 | 0037 | 5104. | 629. | 0000 | 10 | 3561 | 0 | |
| CHN | 100 | 5 | 0049 | 0000 | 26 | 71 427 | 1 4.7'N | 53 30.0'E | 1 | 31.13 | 0037 | 5104. | 107. | 0000 | 10 | 0732 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE SILIC-CALC OOZE | | | | | | | | | | | |
| CHN | 100 | 5 | 0050 | 0000 | 15 | 71 428 | 1 56.7'N | 53 59.1'E | 1 | 31.13 | 0038 | 5126. | 753. | 0000 | 10 | 5369 | 0 | |
| CHN | 100 | 5 | 0050 | 0000 | 26 | 71 428 | 1 56.7'N | 53 59.1'E | 1 | 31.13 | 0038 | 5126. | 144. | 0000 | 10 | 5369 | 0 | |
| CHN | 100 | 5 | 0051 | 0000 | 15 | 71 429 | 1 49.0'N | 56 51.7'E | 1 | 31.16 | 0039 | 4782. | 727. | 0000 | 10 | 1339 | 0 | |

```
**************        STATION DATA RETRIEVAL        **************                                  PAGE 5
**************        DATE: 001017:38 JUN 08        **************                                  **WHOI**
**************        STATION DATA RETRIEVAL        **************                                  PAGE 1803417591
**************        DATE:
```

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | SEVERAL VOIDS,FLOW-IN,610-727 CM | | | | | | | | | | | |
| CHN | 100 | 5 | 0051 | 0000 | 26 | 71 429 | 1 49.0'N | 56 51.7'E | 1 | 31.16 | 0039 | 4782. | 52. | 0000 | 10 | 1323 | 0 | |
| CHN | 100 | 5 | 0052 | 0000 | 15 | 71 430 | 1 37.0'N | 59 40.7'E | 9 | 31.19 | 0040 | 5426. | 596. | 0000 | 15 | 5039 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC.SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 5 | 0052 | 0000 | 26 | 71 430 | 1 37.0'N | 59 40.7'E | 9 | 31.19 | 0040 | 5426. | 148. | 0000 | 15 | 5032 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 33 | | | | | | | | | | | |
| 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 | 8240 | 0 | TANGANYIKA |
| | | | | | **COMMENTS** | | WOOD FRAGMENTS IN CORE | | | | | | | | | | | |
| 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 | 5545 | 0 | LAKE ALBERT |
| 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 | 5645 | 0 | LAKE ALBERT |
| | | | | | **COMMENTS** | | OSTRACOD FRAGMENTS IN TOP 187 CM | | | | | | | | | | | |
| 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 | 5038 | 0 | LAKE ALBERT |
| | | | | | **COMMENTS** | | OSTRACODS IN TOP 11 CM | | | | | | | | | | | |
| | | | | | **COMMENTS** | | SEC SED TYPE:SILIC-CALC OOZE,SPECIAL FEATURES,SHELL FRAGMENTS AND PYRITE | | | | | | | | | | | |
| 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 | 5048 | 0 | LAKE ALBERT |
| | | | | | **COMMENTS** | | SEC SED TYPE:SILIC-CALC OOZE,SPECIAL FEATURES,SHELL FRAGMENTS AND PYRITE | | | | | | | | | | | |
| | | | | | **COMMENTS** | | OSTRACODS IN TOP 40 CM | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 34 | | | | | | | | | | | |
| ZZZ | 70 | 0 | 0001 | 0000 | 15 | 70 4 3 | 6 .5'S | 29 30.9'E | 2 | 34.69 | 0001 | 0. | 120. | 0000 | 22 | 6626 | 0 | TANGANYIKA |
| 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 | 1530 | 0 | TANGANYIKA |
| | | | | | **COMMENTS** | | MICROLAMINATED DIATOMITE;CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 1530 | 0 | TANGANYIKA |
| 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 | 5211 | 0 | TANGANYIKA |
| 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 | 5220 | 0 | TANGANYIKA |
| | | | | | **COMMENTS** | | MICROLAMINATED DIATOMITE | | | | | | | | | | | |
| 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 | 1519 | 0 | TANGANYIKA |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| ZZZ | 70 | 0 | 0014 | 0000 | 15 | 70 410 | 5 35.0'S | 29 21.0'E | 2 | 34.59 | 0014 | 29. | 44. | 0000 | 22 | 1229 | 0 | TANGANYIKA |
| ZZZ | 70 | 0 | 0015 | 0000 | 15 | 70 410 | 5 33.0'S | 29 28.0'E | 2 | 34.59 | 0015 | 633. | 229. | 0000 | 22 | 6519 | 0 | TANGANYIKA |
| | | | | | **COMMENTS** | | VOID,200-229 CM;CORE IN POOR CONDITION | | | | | | | | | | | |
| ZZZ | 70 | 0 | 0018 | 0000 | 15 | 70 411 | 5 45.0'S | 29 25.0'E | 2 | 34.59 | 0018 | 64. | 141. | 0000 | 22 | 6519 | 0 | TANGANYIKA |
| ZZZ | 70 | 0 | 0019 | 0000 | 15 | 70 411 | 5 56.0'S | 29 32.0'E | 2 | 34.59 | 0019 | 361. | 200. | 0000 | 22 | 6819 | 0 | TANGANYIKA |

| HIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 38 | | | | | | | | | | |
| HN | 99 | 3 | 0009 | 0000 | 15 | 70 514 | 10 30.8'N | 18 18.5'W | 1 | 38.08 | 0008 | 4014. | 856. | 0000 | 6 | 2429 | 0 | |
| HN | 99 | 3 | 0009 | 0000 | 26 | 70 514 | 10 30.8'N | 18 18.5'W | 1 | 38.08 | 0008 | 4014. | 178. | 0000 | 6 | 0329 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE : CALC.SILIC CLAY WITH DETRITUS | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 39 | | | | | | | | | | |
| II | 42 | 1 | 0001 | 0000 | 15 | 68 629 | 16 26.0'N | 21 43.0'W | 1 | 39.61 | 0001 | 3696. | 258. | 0000 | 6 | 3739 | 54 | |
| II | 42 | 1 | 0002 | 0000 | 15 | 68 630 | 18 2.0'N | 24 27.0'W | 1 | 39.84 | 0002 | 3696. | 600. | 0000 | 5 | 3241 | 54 | |
| II | 42 | 1 | 0003 | 0000 | 15 | 68 7 1 | 19 41.0'N | 26 9.0'W | 1 | 39.96 | 0003 | 4550. | 1200. | 0000 | 6 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | 0-140 IS MISSING | | | | | | | | | | |
| II | 42 | 1 | 0004 | 0000 | 15 | 68 7 2 | 19 43.5'N | 29 2.0'W | 1 | 39.99 | 0004 | 4695. | 1135. | 0000 | 11 | 3429 | 54 | |
| | | | | | | | | MARSDEN SQUARE # 40 | | | | | | | | | | |
| II | 42 | 1 | 0006 | 0000 | 15 | 68 7 3 | 19 51.5'N | 31 53.0'W | 1 | 40.91 | 0005 | 4937. | 1065. | 0000 | 11 | 3429 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,834-1065 CM | | | | | | | | | | |
| II | 42 | 1 | 0007 | 0000 | 15 | 68 7 4 | 19 39.0'N | 34 24.5'W | 1 | 40.94 | 0006 | 5161. | 870. | 0000 | 11 | 3340 | 54 | |
| | | | | | **COMMENTS** | | | ENTIRE CORE IS FLOW-IN | | | | | | | | | | |
| II | 42 | 1 | 0008 | 0000 | 15 | 68 7 4 | 19 30.0'N | 36 32.0'W | 1 | 40.96 | 0007 | 5376. | 815. | 0000 | 11 | 4129 | 54 | |
| II | 42 | 1 | 0009 | 0000 | 15 | 68 7 5 | 19 31.8'N | 38 49.5'W | 1 | 40.98 | 0008 | 5235. | 879. | 0000 | 15 | 1379 | 54 | |
| | | | | | | | | MARSDEN SQUARE # 41 | | | | | | | | | | |
| II | 31 | 1 | 0001 | 0000 | 15 | 67 4 9 | 10 45.0'N | 44 51.0'W | 4 | 41.04 | 0001 | 3836. | 304. | 0000 | 16 | 3849 | 0 | |
| II | 31 | 1 | 0001 | 0000 | 26 | 67 4 9 | 10 45.0'N | 44 51.0'W | 4 | 41.04 | 0001 | 3836. | 63. | 0000 | 16 | 3849 | 0 | |
| II | 31 | 1 | 0002 | 0000 | 15 | 67 412 | 10 35.0'N | 44 51.0'W | 4 | 41.04 | 0002 | 5106. | 699. | 0000 | 19 | 8240 | 0 | |
| | | | | | **COMMENTS** | | | POSSIBLE SUCK-UP 330-699 CM | | | | | | | | | | |
| II | 31 | 1 | 0002 | 0000 | 26 | 67 412 | 10 35.0'N | 44 51.0'W | 4 | 41.04 | 0002 | 5106. | 18. | 0000 | 19 | 1249 | 0 | |
| II | 31 | 1 | 0003 | 0000 | 15 | 67 413 | 10 54.5'N | 44 7.0'W | 4 | 41.04 | 0003 | 4389. | 692. | 0000 | 19 | 2839 | 0 | |
| | | | | | **COMMENTS** | | | POSSIBLE SUCK-UP 90-692 CM | | | | | | | | | | |
| II | 31 | 1 | 0003 | 0000 | 26 | 67 413 | 10 54.5'N | 44 7.0'W | 4 | 41.04 | 0003 | 4389. | 53. | 0000 | 19 | 2349 | 0 | |
| II | 31 | 1 | 0004 | 0000 | 15 | 67 415 | 10 49.0'N | 44 10.0'W | 4 | 41.04 | 0004 | 5154. | 538. | 0000 | 19 | 2349 | 0 | |
| | | | | | **COMMENTS** | | | POSSIBLE SUCK-UP 27-538 CM | | | | | | | | | | |
| II | 31 | 1 | 0004 | 0000 | 26 | 67 415 | 10 49.0'N | 44 10.0'W | 4 | 41.04 | 0004 | 5154. | 98. | 0000 | 19 | 2349 | 0 | |
| II | 31 | 1 | 0005 | 0000 | 15 | 67 414 | 10 22.0'N | 44 18.0'W | 4 | 41.04 | 0005 | 4945. | 593. | 0000 | 19 | 2329 | 0 | |
| II | 31 | 1 | 0007 | 0000 | 15 | 67 416 | 10 29.0'N | 43 41.5'W | 4 | 41.03 | 0007 | 4607. | 525. | 0000 | 19 | 3662 | 0 | |
| II | 31 | 1 | 0007 | 0000 | 26 | 67 416 | 10 29.0'N | 43 41.5'W | 4 | 41.03 | 0007 | 4607. | 22. | 0000 | 19 | 3662 | 0 | |
| II | 31 | 1 | 0008 | 0000 | 15 | 67 416 | 10 48.5'N | 42 56.0'W | 4 | 41.02 | 0008 | 5179. | 388. | 0000 | 19 | 0379 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE SLIGHTLY CALC CLAY WITH DETRITUS | | | | | | | | | | |
| II | 31 | 1 | 0012 | 0000 | 15 | 67 418 | 10 20.0'N | 41 17.5'W | 1 | 41.01 | 0012 | 3182. | 511. | 0000 | 19 | 3349 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 41 | | | | | | | | | | |
| AII | 31 | 1 | 0012 | 0000 | 26 | 67 418 | 10 20.0'N | 41 17.5'W | 1 | 41.01 | 0012 | 3182. | 78. | 0000 | 19 | 3322 | 0 | |
| AII | 31 | 1 | 0013 | 0000 | 15 | 67 419 | 11 20.3'N | 41 51.8'W | 1 | 41.11 | 0013 | 4204. | 530. | 0000 | 19 | 3029 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED TYPE; CALC.SILIC OOZE | | | | | | | | | | |
| AII | 31 | 1 | 0013 | 0000 | 26 | 67 419 | 11 20.3'N | 41 51.8'W | 1 | 41.11 | 0013 | 4204. | 119. | 0000 | 19 | 3329 | 0 | |
| AII | 31 | 1 | 0014 | 0000 | 15 | 67 420 | 11 32.0'N | 42 42.5'W | 1 | 41.12 | 0014 | 3846. | 468. | 0000 | 19 | 3329 | 0 | |
| AII | 31 | 1 | 0014 | 0000 | 26 | 67 420 | 11 32.0'N | 42 42.5'W | 1 | 41.12 | 0014 | 3846. | 69. | 0000 | 19 | 3329 | 0 | |
| AII | 31 | 1 | 0015 | 0000 | 15 | 67 420 | 11 53.1'N | 43 47.4'W | 1 | 41.13 | 0015 | 3940. | 566. | 0000 | 19 | 3340 | 0 | |
| | | | | | **COMMENTS** | | | FLOW-IN 9-566 CM | | | | | | | | | | |
| AII | 31 | 1 | 0015 | 0000 | 26 | 67 420 | 11 53.1'N | 43 47.4'W | 1 | 41.13 | 0015 | 3940. | 83. | 0000 | 19 | 3739 | 0 | |
| AII | 31 | 1 | 0016 | 0000 | 15 | 67 421 | 11 57.5'N | 46 10.0'W | 1 | 41.16 | 0016 | 4217. | 512. | 0000 | 19 | 3322 | 0 | |
| AII | 31 | 1 | 0016 | 0000 | 26 | 67 421 | 11 57.5'N | 46 10.0'W | 1 | 41.16 | 0016 | 4217. | 150. | 0000 | 19 | 3329 | 0 | |
| AII | 31 | 1 | 0017 | 0000 | 15 | 67 422 | 11 54.5'N | 48 26.0'W | 1 | 41.18 | 0017 | 4824. | 848. | 0000 | 19 | 3426 | 0 | |
| AII | 31 | 1 | 0017 | 0000 | 26 | 67 422 | 11 54.5'N | 48 26.0'W | 1 | 41.18 | 0017 | 4824. | 40. | 0000 | 19 | 3136 | 0 | |
| 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 | 2279 | 54 | |
| 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 | 3432 | 54 | |
| 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 | 3349 | 54 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| 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 | 3322 | 54 | |
| | | | | | **COMMENTS** | | | 0-75 CM MISSING; CORE SOMEWHAT DISTURBED | | | | | | | | | | |
| 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 | 3379 | 54 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| AII | 42 | 1 | 0016 | 0000 | 15 | 68 711 | 19 41.5'N | 44 33.0'W | 1 | 41.94 | 0015 | 4040. | 737. | 0000 | 15 | 3349 | 54 | |
| AII | 42 | 1 | 0017 | 0000 | 15 | 68 713 | 19 33.8'N | 46 7.8'W | 1 | 41.96 | 0016 | 2471. | 560. | 0000 | 15 | 3349 | 54 | |
| AII | 42 | 1 | 0022 | 0000 | 15 | 68 715 | 19 13.0'N | 47 27.0'W | 1 | 41.97 | 0017 | 4320. | 748. | 0000 | 16 | 3731 | 54 | |
| AII | 42 | 1 | 0023 | 0000 | 15 | 68 716 | 19 13.2'N | 47 26.0'W | 1 | 41.97 | 0018 | 4321. | 807. | 0000 | 15 | 3341 | 54 | |
| AII | 42 | 1 | 0030 | 0000 | 15 | 68 717 | 19 8.8'N | 47 27.0'W | 1 | 41.97 | 0019 | 3942. | 672. | 0000 | 15 | 3322 | 54 | |
| AII | 42 | 1 | 0032 | 0000 | 15 | 68 718 | 19 41.0'N | 48 39.0'W | 1 | 41.98 | 0020 | 4254. | 544. | 0000 | 15 | 3320 | 54 | |
| | | | | | **COMMENTS** | | | DISCOASTER OOZE 200-095 CM | | | | | | | | | | |
| CHN | 75 | 2 | 0013 | 0000 | 15 | 671111 | 14 12.5'N | 49 9.0'W | 4 | 41.49 | 0011 | 4474. | 192. | 0000 | 11 | 3329 | 54 | |
| CHN | 75 | 2 | 0013 | 0000 | 26 | 671111 | 14 12.5'N | 49 9.0'W | 4 | 41.49 | 0011 | 4474. | 82. | 0000 | 11 | 3752 | 0 | |
| CHN | 75 | 2 | 0014 | 0000 | 15 | 671112 | 14 18.0'N | 48 11.2'W | 4 | 41.48 | 0012 | 4069. | 760. | 0000 | 11 | 3739 | 54 | |
| CHN | 75 | 2 | 0015 | 0000 | 15 | 671112 | 13 55.4'N | 47 2.0'W | 1 | 41.37 | 0013 | 4140. | 790. | 0000 | 15 | 3029 | 54 | |
| | | | | | **COMMENTS** | | | SEC SED TYPE; CALC.SILIC OOZE | | | | | | | | | | |
| CHN | 75 | 2 | 0016 | 0000 | 15 | 671113 | 13 21.5'N | 46 10.5'W | 1 | 41.36 | 0014 | 3718. | 398. | 0000 | 15 | 3329 | 54 | |
| CHN | 75 | 2 | 0018 | 0000 | 15 | 671117 | 13 22.8'N | 43 53.8'W | 4 | 41.33 | 0016 | 3742. | 860. | 0000 | 15 | 3729 | 54 | |
| CHN | 75 | 2 | 0018 | 0000 | 26 | 671117 | 13 22.8'N | 43 53.8'W | 4 | 41.33 | 0016 | 3742. | 47. | 0000 | 15 | 3329 | 0 | |
| CHN | 75 | 2 | 0019 | 0000 | 15 | 671117 | 13 24.0'N | 44 38.5'W | 4 | 41.34 | 0017 | 3093. | 143. | 0000 | 16 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 75 | 2 | 0019 | 0000 | 26 | 671117 | 13 24.0'N | 44 38.5'W | 4 | 41.34 | 0017 | 3093. | 62. | 0000 | 16 | 3329 | 0 | |
| CHN | 75 | 2 | 0020 | 0000 | 15 | 671118 | 13 22.0'N | 45 23.7'W | 4 | 41.35 | 0018 | 3538. | 860. | 0000 | 16 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | COREIN POOR CONDITION | | | | | | | | | | |
| CHN | 75 | 2 | 0020 | 0000 | 26 | 671118 | 13 22.0'N | 45 23.7'W | 4 | 41.35 | 0018 | 3538. | 92. | 0000 | 16 | 3329 | 0 | |
| CHN | 75 | 2 | 0029 | 0000 | 15 | 671123 | 12 58.4'N | 44 34.1'W | 10 | 41.24 | 0019 | 3266. | 488. | 0000 | 14 | 3769 | 54 | |
| CHN | 75 | 2 | 0029 | 0000 | 26 | 671123 | 12 58.4'N | 44 34.1'W | 10 | 41.24 | 0019 | 3266. | 72. | 0000 | 14 | 3769 | 0 | |
| CHN | 75 | 2 | 0030 | 0000 | 15 | 671123 | 12 57.0'N | 44 46.2'W | 10 | 41.24 | 0020 | 3612. | 508. | 0000 | 16 | 3324 | 41 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMADA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 41 | | | | | | | | | | |
| CHN | 75 | 2 | 0030 | 0000 | 26 | 671123 | 12 57.0'N | 44 46.2'W | 10 | 41.24 | 0020 | 3612. | 93. | 0000 | 16 | 3329 | 0 | |
| CHN | 75 | 2 | 0031 | 0000 | 15 | 671124 | 13 .0'N | 45 57.5'W | 10 | 41.35 | 0021 | 3229. | 714. | 0000 | 14 | 3722 | 54 | |
| CHN | 75 | 2 | 0031 | 0000 | 26 | 671124 | 13 .0'N | 45 57.5'W | 10 | 41.35 | 0021 | 3229. | 132. | 0000 | 14 | 3322 | 0 | |
| CHN | 75 | 2 | 0032 | 0000 | 15 | 671124 | 13 2.0'N | 46 55.0'W | 10 | 41.26 | 0022 | 3276. | 435. | 0000 | 14 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | VOID,399-417 CM | | | | | | | | | | |
| CHN | 75 | 2 | 0032 | 0000 | 26 | 671124 | 13 2.0'N | 46 55.0'W | 10 | 41.26 | 0022 | 3276. | 147. | 0000 | 14 | 3329 | 0 | |
| CHN | 75 | 2 | 0033 | 0000 | 15 | 671125 | 13 4.2'N | 47 59.2'W | 4 | 41.37 | 0023 | 4067. | 45. | 0000 | 19 | 0853 | 54 | |
| | | | | | **COMMENTS** | | | CORE IS PREDOMINANTLY MN GRANULES | | | | | | | | | | |
| CHN | 75 | 2 | 0034 | 0000 | 15 | 671125 | 13 1.3'N | 48 50.8'W | 1 | 41.38 | 0024 | 4698. | 900. | 0000 | 15 | 3432 | 54 | |
| CHN | 75 | 2 | 0034 | 0000 | 26 | 671125 | 13 1.3'N | 48 50.8'W | 1 | 41.38 | 0024 | 4698. | 133. | 0000 | 15 | 3329 | 0 | |
| CHN | 75 | 2 | 0035 | 0000 | 15 | 671126 | 13 3.5'N | 49 45.5'W | 1 | 41.29 | 0025 | 4966. | 150. | 0000 | 11 | 3430 | 54 | |
| | | | | | **COMMENTS** | | | ASH LAYER IN CORE | | | | | | | | | | |
| CHN | 75 | 2 | 0035 | 0000 | 26 | 671126 | 13 3.5'N | 49 45.5'W | 1 | 41.29 | 0025 | 4966. | 140. | 0000 | 11 | 3329 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 42 | | | | | | | | | | |
| AII | 31 | 1 | 0019 | 0000 | 15 | 67 425 | 18 3.0'N | 59 8.0'W | 1 | 42.89 | 0018 | 5534. | 748. | 0000 | 16 | 1223 | 0 | |
| AII | 31 | 1 | 0019 | 0000 | 26 | 67 425 | 18 3.0'N | 59 8.0'W | 1 | 42.89 | 0018 | 5534. | 98. | 0000 | 16 | 6639 | 0 | |
| CHN | 36 | 1 | 0005 | 0000 | 13 | 63 625 | 17 17.5'N | 59 27.0'W | 4 | 42.79 | 0004 | 6080. | 128. | 0000 | 17 | 2839 | 0 | |
| CHN | 36 | 1 | 0006 | 0000 | 13 | 63 626 | 16 45.0'N | 57 38.5'W | 4 | 42.67 | 0005 | 5854. | 78. | 0000 | 17 | 1839 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0007 | 0000 | 13 | 63 627 | 16 46.5'N | 57 47.5'W | 5 | 42.67 | 0006 | 5854. | 32. | 0000 | 17 | 2839 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0009 | 0000 | 13 | 63 627 | 16 33.5'N | 57 50.7'W | 5 | 42.67 | 0007 | 4342. | 244. | 0000 | 17 | 3332 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0010 | 0000 | 13 | 63 628 | 16 35.0'N | 57 54.7'W | 5 | 42.67 | 0008 | 4327. | 240. | 0000 | 17 | 3329 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0011 | 0000 | 13 | 63 628 | 16 57.0'N | 58 24.0'W | 4 | 42.68 | 0009 | 5879. | 81. | 0000 | 17 | 1239 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0013 | 0000 | 13 | 63 629 | 16 18.2'N | 58 36.0'W | 5 | 42.68 | 0010 | 5538. | 156. | 0000 | 17 | 1939 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 36 | 1 | 0014 | 0000 | 13 | 63 629 | 16 45.0'N | 58 27.6'W | 1 | 42.68 | 0011 | 4198. | 82. | 0000 | 17 | 3329 | 0 | |
| CHN | 44 | 1 | 0033 | 0000 | 15 | 6411 1 | 16 44.0'N | 58 27.0'W | 5 | 42.68 | 0001 | 4006. | 84. | 0000 | 19 | 3969 | 0 | |
| CHN | 44 | 1 | 0035 | 0000 | 15 | 6411 2 | 17 3.0'N | 58 16.0'W | 5 | 42.78 | 0003 | 5767. | 273. | 0000 | 19 | 1923 | 0 | |
| CHN | 44 | 1 | 0036 | 0000 | 15 | 6411 2 | 17 2.0'N | 58 16.0'W | 5 | 42.78 | 0004 | 5856. | 25. | 0000 | 19 | 2969 | 0 | |
| CHN | 44 | 1 | 0038 | 0000 | 15 | 6411 3 | 17 4.0'N | 57 57.0'W | 5 | 42.77 | 0006 | 5546. | 100. | 0000 | 19 | 1129 | 0 | |
| CHN | 75 | 2 | 0006 | 0000 | 15 | 6711 5 | 14 17.5'N | 59 35.0'W | 1 | 42.49 | 0004 | 3364. | 326. | 0000 | 7 | 3739 | 40 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 75 | 2 | 0007 | 0000 | 15 | 6711 6 | 14 14.5'N | 58 24.9'W | 4 | 42.48 | 0005 | 3550. | 625. | 0000 | 7 | 3969 | 54 | |
| CHN | 75 | 2 | 0007 | 0000 | 26 | 6711 6 | 14 14.5'N | 58 24.9'W | 4 | 42.48 | 0005 | 3550. | 56. | 0000 | 7 | 3969 | 0 | |
| CHN | 75 | 2 | 0008 | 0000 | 15 | 6711 7 | 14 1.0'N | 57 23.5'W | 4 | 42.47 | 0006 | 5177. | 625. | 0000 | 5 | 1629 | 54 | |
| | | | | | **COMMENTS** | | | CORE DISTURBED,200-625;SEVERAL ASH LAYERS | | | | | | | | | | |
| CHN | 75 | 2 | 0008 | 0000 | 26 | 6711 7 | 14 1.0'N | 57 23.5'W | 4 | 42.47 | 0006 | 5177. | 92. | 0000 | 5 | 3969 | 0 | |
| CHN | 75 | 2 | 0009 | 0000 | 15 | 6711 8 | 14 14.0'N | 55 47.2'W | 4 | 42.45 | 0007 | 5141. | 792. | 0000 | 10 | 1429 | 54 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | CORE DISTURBED,200-792;SEVERAL ASH LAYERS | | | | | | | | | | | |
| CHN | 75 | 2 | 0009 | 0000 | 26 | 6711 8 | 14 14.0'N | 55 47.2'W | 4 | 42.45 | 0007 | 5141. | 173. | 0000 | 10 | 3322 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION, VOID 100-106CM | | | | | | | | | | | |
| CHN | 75 | 2 | 0010 | 0000 | 15 | 6711 9 | 14 9.5'N | 54 7.0'W | 4 | 42.44 | 0008 | 5342. | 515. | 0000 | 10 | 9469 | 54 | |
| | | | | | **COMMENTS** | | COREIN POOR CONDITION | | | | | | | | | | | |
| CHN | 75 | 2 | 0010 | 0000 | 26 | 6711 9 | 14 9.5'N | 54 7.0'W | 4 | 42.44 | 0008 | 5342. | 89. | 0000 | 10 | 9469 | 0 | |
| CHN | 75 | 2 | 0011 | 0000 | 15 | 671110 | 14 18.0'N | 52 37.5'W | 4 | 42.42 | 0009 | 5061. | 580. | 0000 | 10 | 3432 | 54 | |
| CHN | 75 | 2 | 0011 | 0000 | 26 | 671110 | 14 18.0'N | 52 37.5'W | 4 | 42.42 | 0009 | 5061. | 154. | 0000 | 10 | 3432 | 0 | |
| CHN | 75 | 2 | 0012 | 0000 | 15 | 671110 | 14 15.0'N | 50 51.0'W | 1 | 42.40 | 0010 | 4783. | 815. | 0000 | 10 | 1429 | 54 | |
| CHN | 75 | 2 | 0012 | 0000 | 26 | 671110 | 14 15.0'N | 50 51.0'W | 1 | 42.40 | 0010 | 4783. | 138. | 0000 | 10 | 1329 | 0 | |
| CHN | 75 | 2 | 0036 | 0000 | 15 | 671126 | 13 2.5'N | 50 46.5'W | 1 | 42.30 | 0026 | 4816. | 445. | 0000 | 11 | 4329 | 54 | |
| CHN | 75 | 2 | 0036 | 0000 | 26 | 671126 | 13 2.5'N | 50 46.5'W | 1 | 42.30 | 0026 | 4816. | 160. | 0000 | 11 | 4969 | 0 | |
| CHN | 75 | 2 | 0037 | 0000 | 15 | 671126 | 13 5.5'N | 51 18.5'W | 1 | 42.31 | 0027 | 5005. | 435. | 0000 | 10 | 3929 | 54 | |
| | | | | | **COMMENTS** | | ASH LAYERS IN CORE | | | | | | | | | | | |
| CHN | 75 | 2 | 0037 | 0000 | 26 | 671126 | 13 5.5'N | 51 18.5'W | 1 | 42.31 | 0027 | 5005. | 180. | 0000 | 10 | 3969 | 0 | |
| CHN | 75 | 2 | 0038 | 0000 | 15 | 671127 | 12 49.0'N | 52 45.5'W | 1 | 42.22 | 0028 | 5107. | 57. | 0000 | 10 | 4969 | 54 | |
| CHN | 75 | 2 | 0039 | 0000 | 15 | 671128 | 12 15.0'N | 54 15.0'W | 1 | 42.24 | 0029 | 4675. | 865. | 0000 | 6 | 3420 | 54 | |
| CHN | 75 | 2 | 0039 | 0000 | 26 | 671128 | 12 15.0'N | 54 15.0'W | 1 | 42.24 | 0029 | 4675. | 178. | 0000 | 6 | 3329 | 0 | |
| CHN | 75 | 2 | 0040 | 0000 | 15 | 671128 | 12 10.0'0 | 54 44.0'W | 1 | 42.25 | 0030 | 4526. | 718. | 0000 | 6 | 3939 | 54 | |
| CHN | 75 | 2 | 0041 | 0000 | 15 | 671129 | 12 9.0'N | 56 49.0'W | 1 | 42.26 | 0031 | 4437. | 10. | 0000 | 6 | 3359 | 54 | |
| CHN | 75 | 2 | 0041 | 0000 | 26 | 671129 | 12 9.0'N | 56 49.0'W | 1 | 42.26 | 0031 | 4437. | 149. | 0000 | 6 | 3339 | 0 | |
| CHN | 75 | 2 | 0042 | 0000 | 15 | 671130 | 12 2.5'N | 57 56.5'W | 1 | 42.27 | 0032 | 2819. | 765. | 0000 | 3 | 3335 | 54 | |
| CHN | 75 | 2 | 0043 | 0000 | 15 | 671130 | 12 11.0'N | 59 3.0'W | 1 | 42.29 | 0033 | 2173. | 693. | 0000 | 3 | 3932 | 54 | |
| CHN | 75 | 3 | 0044 | 0000 | 15 | 671211 | 15 59.4'N | 57 43.8'W | 4 | 42.57 | 0034 | 5432. | 834. | 0000 | 19 | 1969 | 54 | |
| CHN | 75 | 3 | 0045 | 0000 | 26 | 671211 | 16 51.0'N | 57 37.8'W | 1 | 42.67 | 0035 | 5844. | 111. | 0000 | 19 | 1969 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 75 | 3 | 0045 | 0000 | 15 | 671212 | 16 54.9'N | 57 38.0'W | 1 | 42.67 | 0036 | 5838. | 109. | 0000 | 19 | 9169 | 54 | |
| CHN | 75 | 3 | 0045 | 0000 | 26 | 671212 | 16 54.9'N | 57 38.0'W | 1 | 42.67 | 0036 | 5838. | 145. | 0000 | 19 | 9169 | 0 | |
| CHN | 75 | 3 | 0046 | 0000 | 15 | 671212 | 17 35.5'N | 57 43.0'W | 5 | 42.77 | 0037 | 5680. | 75. | 0000 | 19 | 9469 | 54 | |
| CHN | 75 | 3 | 0046 | 0000 | 26 | 671212 | 17 35.5'N | 57 43.0'W | 5 | 42.77 | 0037 | 5680. | 145. | 0000 | 19 | 9469 | 0 | |
| | | | | | | | MARSDEN SQUARE # 43 | | | | | | | | | | | |
| ATL | 240 | 1 | 0007 | 0000 | 15 | 5711 2 | 10 48.0'N | 65 51.5'W | 5 | 43.05 | 0007 | 253. | 357. | 0000 | 18 | 3769 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-30 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0008 | 0000 | 15 | 5711 2 | 10 44.0'N | 65 51.7'W | 5 | 43.05 | 0008 | 526. | 542. | 0000 | 18 | 3769 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-11 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0009 | 0000 | 15 | 5711 3 | 10 40.7'N | 65 51.5'W | 5 | 43.05 | 0009 | 1342. | 375. | 0000 | 18 | 2348 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-7 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0010 | 0000 | 15 | 5711 3 | 10 36.7'N | 65 49.8'W | 5 | 43.05 | 0010 | 673. | 450. | 0000 | 18 | 3349 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-16 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0011 | 0000 | 15 | 5711 4 | 10 28.8'N | 65 35.7'W | 5 | 43.05 | 0011 | 572. | 56. | 0000 | 18 | 4446 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-16 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0012 | 0000 | 15 | 5711 4 | 10 37.5'N | 65 32.4'W | 5 | 43.05 | 0012 | 1345. | 591. | 0000 | 18 | 3865 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | VOID:0-11 CM;POSSIBLE FLOW-IN,190-591 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0013 | 0000 | 15 | 5711 5 | 10 51.8'N | 65 31.8'W | 5 | 43.05 | 0013 | 942. | 850. | 0000 | 18 | 4446 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-31, POSSIBLE FLOW-IN,147-850 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0014 | 0000 | 15 | 5711 5 | 10 55.2'N | 65 32.2'W | 5 | 43.05 | 0014 | 385. | 840. | 0000 | 18 | 4329 | 0 | |
| | | | | | **COMMENTS** | | VOID:10-51; POSSIBLE FLOW-IN, ENTIRE CORE | | | | | | | | | | | |
| ATL | 240 | 1 | 0015 | 0000 | 15 | 5711 6 | 10 52.5'N | 65 8.0'W | 5 | 43.05 | 0015 | 354. | 580. | 0000 | 18 | 8455 | 0 | |
| ATL | 240 | 1 | 0016 | 0000 | 15 | 5711 7 | 10 38.7'N | 65 4.5'W | 5 | 43.05 | 0016 | 914. | 715. | 0000 | 18 | 3075 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-43 CM;SEC SED TYPE;SILIC-CALC OOZE | | | | | | | | | | | |
| ATL | 240 | 1 | 0017 | 0000 | 15 | 5711 7 | 10 32.6'N | 64 51.2'W | 5 | 43.04 | 0017 | 1348. | 760. | 0000 | 18 | 4731 | 0 | |
| | | | | | **COMMENTS** | | POSSIBLE FLOW-IN,600-759 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0018 | 0000 | 15 | 5711 7 | 10 30.8'N | 64 40.0'W | 5 | 43.04 | 0018 | 1370. | 952. | 0000 | 18 | 4839 | 0 | |
| ATL | 240 | 1 | 0019 | 0000 | 15 | 5711 8 | 10 22.3'N | 64 42.5'W | 5 | 43.04 | 0019 | 177. | 612. | 0000 | 18 | 3845 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-19 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0020 | 0000 | 15 | 5711 8 | 10 24.0'N | 64 41.2'W | 5 | 43.04 | 0020 | 822. | 915. | 0000 | 18 | 4176 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,425-915 CM | | | | | | | | | | | |
| ATL | 240 | 1 | 0021 | 0000 | 15 | 5711 9 | 10 26.2'N | 64 41.5'W | 5 | 43.04 | 0021 | 980. | 886. | 0000 | 18 | 3029 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-10 CM;FLOW-IN,400-886 CM; SEC. SED. TYPE: SILIC-CALC OOZE | | | | | | | | | | | |
| ATL | 240 | 1 | 0022 | 0000 | 15 | 5711 9 | 10 34.0'N | 64 41.8'W | 5 | 43.04 | 0022 | 1281. | 580. | 0000 | 18 | 4378 | 0 | |
| | | | | | **COMMENTS** | | 0-32 CM:IN SAMPLE JAR | | | | | | | | | | | |
| ATL | 240 | 1 | 0023 | 0000 | 15 | 5711 9 | 10 47.2'N | 64 39.6'W | 5 | 43.04 | 0023 | 278. | 909. | 0000 | 18 | 3075 | 0 | |
| | | | | | **COMMENTS** | | VOID:0-12 CM;SEC SED TYPE:SILIC-CALC OOZE | | | | | | | | | | | |
| ATL | 246 | 0 | 0062 | 0000 | 15 | 5811 2 | 10 41.3'N | 64 40.0'W | 5 | 43.04 | 0024 | 342. | 653. | 0000 | 18 | 3479 | 0 | |
| | | | | | **COMMENTS** | | VERY DRY, POOR CONDITION | | | | | | | | | | | |
| ATL | 246 | 0 | 0062 | 0000 | 26 | 5811 2 | 10 41.3'N | 64 40.0'W | 5 | 43.04 | 0024 | 342. | 61. | 0000 | 18 | 3555 | 0 | |
| ATL | 246 | 0 | 0063 | 0000 | 15 | 5811 2 | 10 57.0'N | 64 38.5'W | 5 | 43.04 | 0025 | 338. | 1027. | 0000 | 18 | 4029 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION;SEC SED TYPE;CALC-SILIC CLAY | | | | | | | | | | | |
| ATL | 246 | 0 | 0063 | 0000 | 26 | 5811 2 | 10 57.0'N | 64 38.5'W | 5 | 43.04 | 0025 | 338. | 88. | 0000 | 18 | 4029 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE: CALC-SILIC CLAY | | | | | | | | | | | |
| ATL | 246 | 0 | 0064 | 0000 | 15 | 5811 4 | 10 6.0'N | 67 19.0'W | 5 | 43.07 | 0026 | 737. | 582. | 0000 | 21 | 4859 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| ATL | 246 | 0 | 0064 | 0000 | 26 | 5811 4 | 10 6.0'N | 67 19.0'W | 5 | 43.07 | 0026 | 737. | 84. | 0000 | 21 | 4859 | 0 | |
| ATL | 246 | 0 | 0065 | 0000 | 15 | 5811 5 | 11 1.0'N | 67 16.0'W | 5 | 43.17 | 0027 | 897. | 614. | 0000 | 21 | 3859 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| ATL | 246 | 0 | 0065 | 0000 | 26 | 5811 5 | 11 1.0'N | 67 16.0'W | 5 | 43.17 | 0027 | 897. | 87. | 0000 | 21 | 3859 | 0 | |
| ATL | 246 | 0 | 0066 | 0000 | 15 | 5811 4 | 11 28.0'N | 67 13.0'W | 5 | 43.17 | 0028 | 1935. | 923. | 0000 | 21 | 4355 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| ATL | 246 | 0 | 0066 | 0000 | 26 | 5811 4 | 11 28.0'N | 67 13.0'W | 5 | 43.17 | 0028 | 1935. | 99. | 0000 | 21 | 4355 | 0 | |
| ATL | 246 | 0 | 0068 | 0000 | 15 | 5811 5 | 12 34.0'N | 68 29.0'W | 5 | 43.28 | 0029 | 3210. | 694. | 0000 | 21 | 3355 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION;POSSIBLE FLOW-IN,610-694 CM | | | | | | | | | | | |
| ATL | 246 | 0 | 0068 | 0000 | 26 | 5811 5 | 12 34.0'N | 68 29.0'W | 5 | 43.28 | 0029 | 3210. | 91. | 0000 | 21 | 3355 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| ATL | 246 | 0 | 0069 | 0000 | 15 | 5811 5 | 12 10.0'N | 68 29.0'W | 5 | 43.28 | 0030 | 1499. | 512. | 0000 | 21 | 3355 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION;100-364 CM ONLY REMAINING SED | | | | | | | | | | | |
| ATL | 246 | 0 | 0069 | 0000 | 26 | 5811 5 | 12 10.0'N | 68 29.0'W | 5 | 43.28 | 0030 | 1499. | 95. | 0000 | 21 | 3569 | 0 | |
| ATL | 246 | 0 | 0070 | 0000 | 15 | 5811 6 | 11 47.0'N | 68 30.0'W | 5 | 43.18 | 0031 | 1803. | 108. | 0000 | 21 | 3359 | 0 | |
| ATL | 246 | 0 | 0070 | 0000 | 26 | 5811 6 | 11 47.0'N | 68 30.0'W | 5 | 43.18 | 0031 | 1803. | 88. | 0000 | 21 | 3569 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 43 | | | | | | | | | | |
| ATL | 246 | 0 | 0071 | 0000 | 26 | 5811 6 | 11 25.5'N | 68 30.0'W | 5 | 43.18 | 0032 | 347. | 71. | 0000 | 21 | 4425 | 0 | |
| CHN | 11 | 1 | 0011 | 0000 | 15 | 60 225 | 17 10.0'N | 65 10.0'W | 4 | 43.75 | 0011 | 2940. | 634. | 0000 | 21 | 3739 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION; VOID,272-506;506-550 IS FLOW-IN | | | | | | | | | | |
| CHN | 36 | 1 | 0004 | 0000 | 13 | 63 623 | 19 24.0'N | 61 30.0'W | 5 | 43.91 | 0003 | 5457. | 143. | 0000 | 17 | 1129 | 0 | |
| CHN | 41 | 1 | 0002 | 0000 | 13 | 6312 7 | 17 12.0'N | 67 46.0'W | 5 | 43.77 | 0002 | 5177. | 203. | 0000 | 21 | 3732 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| 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 | 1129 | 0 | |
| CHN | 57 | 1 | 0037 | 0000 | 15 | 66 410 | 19 59.0'N | 68 2.1'W | 5 | 43.98 | 0013 | 5384. | 502. | 0000 | 17 | 9338 | 0 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE UNFOSS CLAY/VOLC ASH POSSIBLE FLOW-IN,207-551 CM | | | | | | | | | | |
| CHN | 75 | 1 | 0001 | 0000 | 15 | 671023 | 19 24.0'N | 65 7.0'W | 5 | 43.95 | 0001 | 5690. | 156. | 0000 | 17 | 3344 | 40 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION;FLOW-IN,15-156 CM | | | | | | | | | | |
| CHN | 75 | 1 | 0002 | 0000 | 15 | 671026 | 19 29.5'N | 60 46.5'W | 4 | 43.90 | 0002 | 5262. | 361. | 0000 | 17 | 1479 | 40 | |
| CHN | 75 | 1 | 0002 | 0000 | 26 | 671026 | 19 29.5'N | 60 46.5'W | 4 | 43.90 | 0002 | 5262. | 115. | 0000 | 17 | 4459 | 0 | |
| CHN | 75 | 1 | 0004 | 0000 | 15 | 671030 | 14 44.7'N | 63 59.0'W | 5 | 43.43 | 0003 | 2376. | 452. | 0000 | 13 | 3029 | 40 | |
| | | | | | **COMMENTS** | | | COREIN POOR CONDITION;NUMEROUS VOIDS;SEC SED TYPE:CALC-SILIC OOZE | | | | | | | | | | |
| GOS | 96 | 0 | 0025 | 0000 | 20 | 67 212 | 10 31.7'N | 62 11.0'W | 0 | 43.02 | 0001 | 18. | 332. | 0000 | 2 | 0000 | 0 | |
| GOS | 96 | 0 | 0026 | 0000 | 20 | 67 212 | 10 29.6'N | 62 30.0'W | 0 | 43.02 | 0001 | 8. | 357. | 0000 | 2 | 0000 | 0 | |
| GOS | 96 | 0 | 0028 | 0000 | 20 | 67 212 | 10 24.6'N | 62 19.8'W | 0 | 43.02 | 0001 | 12. | 359. | 0000 | 2 | 0000 | 0 | |
| GOS | 96 | 0 | 0029 | 0000 | 20 | 67 212 | 10 14.2'N | 62 22.2'W | 0 | 43.02 | 0001 | 9. | 265. | 0000 | 2 | 0000 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 44 | | | | | | | | | | |
| ATL | 246 | 0 | 0214 | 0000 | 26 | 581120 | 11 15.0'N | 71 35.0'W | 5 | 44.11 | 0033 | 18. | 110. | 0000 | 23 | 2255 | 0 | |
| ATL | 246 | 0 | 0215 | 0000 | 26 | 581121 | 11 26.5'N | 71 36.5'W | 5 | 44.11 | 0034 | 24. | 63. | 0000 | 23 | 2255 | 0 | |
| ATL | 246 | 0 | 0216 | 0000 | 26 | 581121 | 11 34.0'N | 71 35.5'W | 5 | 44.11 | 0035 | 22. | 28. | 0000 | 23 | 8855 | 0 | |
| ATL | 246 | 0 | 0217 | 0000 | 26 | 581121 | 11 46.0'N | 71 13.0'W | 5 | 44.11 | 0036 | 18. | 87. | 0000 | 23 | 1155 | 0 | |
| ATL | 246 | 0 | 0218 | 0000 | 26 | 581121 | 11 46.0'N | 71 5.0'W | 5 | 44.11 | 0037 | 16. | 87. | 0000 | 23 | 1155 | 0 | |
| ATL | 246 | 0 | 0219 | 0000 | 26 | 581121 | 11 45.0'N | 70 49.0'W | 5 | 44.10 | 0038 | 37. | 55. | 0000 | 23 | 2255 | 0 | |
| CHN | 41 | 1 | 0003 | 0000 | 15 | 6312 8 | 17 18.0'N | 72 11.0'W | 5 | 44.72 | 0002 | 4296. | 513. | 0000 | 21 | 3739 | 0 | |
| CHN | 41 | 1 | 0004 | 0000 | 13 | 631212 | 19 37.0'N | 76 27.0'W | 3 | 44.96 | 0004 | 6752. | 121. | 0000 | 21 | 3739 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| 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 | 0000 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 45 | | | | | | | | | | |
| ATL | 254 | 3 | 0330 | 0000 | 15 | 60 220 | 19 35.0'N | 84 51.0'W | 5 | 45.94 | 0006 | 4579. | 605. | 0000 | 10 | 3339 | 0 | |
| ATL | 254 | 3 | 0330 | 0000 | 26 | 60 220 | 19 35.0'N | 84 51.0'W | 5 | 45.94 | 0006 | 4579. | 34. | 0000 | 10 | 3339 | 0 | |
| ATL | 254 | 3 | 0331 | 0000 | 15 | 60 221 | 19 12.0'N | 86 44.0'W | 5 | 45.96 | 0007 | 4526. | 300. | 0000 | 10 | 7339 | 0 | |
| ATL | 254 | 3 | 0331 | 0000 | 26 | 60 221 | 19 12.0'N | 86 44.0'W | 5 | 45.96 | 0007 | 4526. | 67. | 0000 | 10 | 3739 | 0 | |
| ATL | 254 | 3 | 0333 | 0000 | 15 | 60 222 | 18 29.0'N | 86 20.0'W | 5 | 45.86 | 0008 | 4402. | 292. | 0000 | 10 | 3849 | 0 | |
| ATL | 254 | 3 | 0333 | 0000 | 26 | 60 222 | 18 29.0'N | 86 20.0'W | 5 | 45.86 | 0008 | 4402. | 76. | 0000 | 10 | 3329 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 45 | | | | | | | | | | | |
| ATL | 254 | 3 | 0334 | 0000 | 26 | 60 222 | 17 52.0'N | 86 15.0'W | 5 | 45.76 | 0009 | 2440. | 61. | 0000 | 21 | 3759 | 0 | |
| ATL | 254 | 3 | 0335 | 0000 | 26 | 60 223 | 16 29.0'N | 86 34.5'W | 5 | 45.66 | 0010 | 2791. | 66. | 0000 | 21 | 3355 | 0 | |
| | | | | | | | 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 | 3355 | 0 | |
| | | | | | | | MARSDEN SQUARE # 66 | | | | | | | | | | | |
| AII | 15 | 5 | 0596 | 0000 | 18 | 65 327 | 18 56.0'N | 61 23.0'E | 9 | 66.81 | 0596 | 3694. | 120. | 0000 | 6 | 3359 | 0 | |
| 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 | 3432 | 0 | |
| 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 | 3359 | 0 | |
| 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 | 3339 | 0 | |
| 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 | 4359 | 0 | |
| | | | | | | | MARSDEN SQUARE # 67 | | | | | | | | | | | |
| AII | 15 | 4 | 0547 | 0000 | 15 | 65 226 | 12 .0'N | 51 54.0'E | 9 | 67.21 | 0007 | 1602. | 190. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 4 | 0547 | 0000 | 26 | 65 226 | 12 .0'N | 51 54.0'E | 9 | 67.21 | 0007 | 1602. | 52. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 4 | 0552 | 0000 | 15 | 65 227 | 10 15.0'N | 53 10.0'E | 9 | 67.03 | 0008 | 4173. | 656. | 0000 | 6 | 0339 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | |
| AII | 15 | 4 | 0552 | 0000 | 26 | 65 227 | 10 15.0'N | 53 10.0'E | 9 | 67.03 | 0008 | 4173. | 39. | 0000 | 6 | 0057 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | |
| AII | 15 | 5 | 0597 | 0000 | 18 | 65 329 | 17 26.0'N | 57 11.0'E | 9 | 67.77 | 597A | 1805. | 86. | 0000 | 6 | 3565 | 0 | |
| AII | 15 | 5 | 0597 | 0000 | 13 | 65 329 | 17 26.0'N | 57 11.0'E | 9 | 67.77 | 0597 | 1805. | 17. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 5 | 0597 | 0000 | 18 | 65 329 | 16 14.0'N | 54 46.0'E | 9 | 67.64 | 597B | 2922. | 90. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 5 | 0597 | 0000 | 15 | 65 329 | 16 14.0'N | 54 46.0'E | 9 | 67.64 | 0019 | 2939. | 670. | 0000 | 6 | 3030 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS SMALL VOIDS THROUGHOUT CORE | | | | | | | | | | |
| AII | 15 | 5 | 0599 | 0000 | 18 | 65 330 | 15 22.0'N | 53 11.0'E | 9 | 67.53 | 0599 | 2292. | 110. | 0000 | 6 | 3022 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | |
| AII | 15 | 5 | 0600 | 0000 | 18 | 65 330 | 15 16.0'N | 54 38.0'E | 9 | 67.54 | 0600 | 2899. | 100. | 0000 | 16 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT CALC SILIC OOZE | | | | | | | | | | |
| AII | 15 | 5 | 0602 | 0000 | 18 | 65 331 | 14 56.0'N | 57 21.0'E | 9 | 67.47 | 0602 | 3357. | 106. | 0000 | 16 | 0362 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | |
| 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 | 0339 | 0 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE,SILIC-CALC OOZE | | | | | | | | | | |
| 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 | 3039 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SEDIMENT TYPE SILIC-CALC OOZE | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 68 | | | | | | | | | | | |
| AII | 15 | 3 | 0545 | 0000 | 18 | 65 219 | 16 34.0'N | 41 3.0'E | 9 | 68.61 | 0545 | 1981. | 42. | 0000 | 20 | 3439 | 0 | |
| AII | 15 | 4 | 0546 | 0000 | 15 | 65 223 | 11 53.0'N | 48 37.3'E | 9 | 68.18 | 0006 | 2136. | 160. | 0000 | 20 | 3459 | 0 | |
| CHN | 43 | 1 | 0004 | 0000 | 13 | 64 326 | 17 39.0'N | 40 10.0'E | 5 | 68.70 | 0001 | 1296. | 90. | 0000 | 16 | 3326 | 41 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 43 | 1 | 0005 | 0000 | 13 | 64 326 | 17 39.0'N | 40 10.0'E | 5 | 68.70 | 0002 | 1470. | 233. | 0000 | 16 | 3328 | 41 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION;SPECIAL FEATURES: SHELL FRAGMENTS AND PYRITE | | | | | | | | | | | |
| 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 | 3725 | 0 | RED SEA |
| 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 | 8468 | 0 | GULF ADEN |
| | | | | | | | MARSDEN SQUARE # 69 | | | | | | | | | | | |
| CHN | 61 | 7 | 0152 | 0000 | 15 | 6611 2 | 19 48.5'N | 38 30.0'E | 1 | 69.98 | 0000 | 2359. | 711. | 0000 | 16 | 7759 | 41 | |
| CHN | 61 | 7 | 0152 | 0000 | 26 | 6611 2 | 19 48.5'N | 38 30.0'E | 1 | 69.98 | 0000 | 2359. | 45. | 0000 | 16 | 3731 | 41 | |
| CHN | 61 | 7 | 0153 | 0000 | 15 | 6611 4 | 19 43.0'N | 38 41.0'E | 1 | 69.98 | 0000 | 2704. | 755. | 0000 | 21 | 3439 | 41 | |
| | | | | | **COMMENTS** | | FLOW-IN,513-755 CM | | | | | | | | | | | |
| CHN | 61 | 7 | 0153 | 0000 | 26 | 6611 4 | 19 43.0'N | 38 41.0'E | 1 | 69.98 | 0000 | 2704. | 157. | 0000 | 21 | 3732 | 41 | |
| CHN | 61 | 7 | 0154 | 0000 | 15 | 6611 4 | 19 34.0'N | 38 59.5'E | 1 | 69.98 | 0000 | 1275. | 890. | 0000 | 21 | 3439 | 41 | |
| | | | | | **COMMENTS** | | NUMEROUS VOIDS IN THE CORE | | | | | | | | | | | |
| CHN | 61 | 7 | 0154 | 0000 | 26 | 6611 4 | 19 34.0'N | 38 59.5'E | 1 | 69.98 | 0000 | 1275. | 92. | 0000 | 21 | 3329 | 41 | |
| CHN | 61 | 7 | 0155 | 0000 | 15 | 6611 5 | 19 23.5'N | 38 54.0'E | 1 | 69.98 | 0000 | 2046. | 424. | 0000 | 21 | 4817 | 41 | |
| CHN | 61 | 7 | 0155 | 0000 | 26 | 6611 5 | 19 23.5'N | 38 54.0'E | 1 | 69.98 | 0000 | 2046. | 117. | 0000 | 21 | 4867 | 41 | |
| 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 | 3359 | 0 | RED SEA |
| 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 | 3868 | 0 | RED SEA |
| 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 | 3232 | 0 | RED SEA |
| | | | | | **COMMENTS** | | SPECIAL FEATURES;GRADED BEDDING AND SEMI-LITHIFIED,INDURATED SEDIMENT | | | | | | | | | | | |
| 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 | 3238 | 0 | RED SEA |
| | | | | | **COMMENTS** | | SPECIAL FEATURES:SHELL FRAGMENTS AND SEMI-LITHIFIED SEDIMENT | | | | | | | | | | | |
| 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 | 3329 | 0 | RED SEA |
| 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 | 3865 | 0 | RED SEA |
| | | | | | | | MARSDEN SQUARE # 75 | | | | | | | | | | | |
| CHN | 96 | 4 | 0001 | 0000 | 15 | 6911 6 | 27 22.0'N | 21 58.5'W | 9 | 75.11 | 0001 | 4879. | 750. | 0000 | 6 | 3329 | 54 | |
| | | | | | | | MARSDEN SQUARE # 76 | | | | | | | | | | | |
| CHN | 61 | 10 | 0171 | 0000 | 15 | 6612 6 | 26 42.0'N | 39 23.0'W | 1 | 76.69 | 0000 | 4279. | 760. | 0000 | 11 | 3322 | 41 | |
| CHN | 61 | 10 | 0172 | 0000 | 15 | 6612 6 | 26 33.5'N | 39 58.5'W | 1 | 76.69 | 0000 | 4356. | 160. | 0000 | 11 | 3329 | 41 | |
| CHN | 96 | 4 | 0003 | 0000 | 15 | 6911 9 | 29 10.5'N | 38 28.6'W | 8 | 76.98 | 0003 | 4760. | 558. | 0000 | 15 | 3731 | 54 | |
| CHN | 96 | 4 | 0003 | 0000 | 26 | 6911 9 | 29 10.5'N | 38 28.6'W | 8 | 76.98 | 0003 | 4760. | 109. | 0000 | 15 | 3329 | 54 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMADA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 76 | | | | | | | | | | | |
| CHN | 99 | 2 | 0007 | 0000 | 15 | 70 429 | 29 18.4'N | 36 36.7'W | 8 | 76.96 | 0006 | 3936. | 732. | 0000 | 19 | 3739 | 0 | MAR |
| 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 | 3329 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,380-719 CM | | | | | | | | | | | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE,SILIC.CALC CLAY | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 77 | | | | | | | | | | | |
| AII | 42 | 1 | 0033 | 0000 | 15 | 68 719 | 20 2.0'N | 49 46.8'W | 1 | 77.09 | 0021 | 4598. | 825. | 0000 | 15 | 3729 | 54 | |
| AII | 92 | 2 | 0019 | 0000 | 15 | 75 925 | 22 55.5'N | 43 30.6'W | 9 | 77.23 | 0005 | 4448. | 516. | 0000 | 15 | 3731 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| AII | 92 | 2 | 0019 | 0000 | 26 | 75 925 | 22 55.5'N | 43 30.6'W | 9 | 77.23 | 0005 | 4448. | 141. | 0000 | 15 | 3462 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| AII | 92 | 2 | 0021 | 0000 | 15 | 75 926 | 23 5.8'N | 43 36.7'W | 9 | 77.33 | 0006 | 4422. | 526. | 0000 | 15 | 3731 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| AII | 92 | 2 | 0021 | 0000 | 26 | 75 926 | 23 5.8'N | 43 36.7'W | 9 | 77.33 | 0006 | 4422. | 109. | 0000 | 15 | 3339 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| | | | | | **COMMENTS** | | PILOT CORE REPENETRATION SUSPECTED | | | | | | | | | | | |
| AII | 92 | 2 | 0025 | 0000 | 13 | 7510 1 | 23 6.8'N | 43 31.6'W | 9 | 77.33 | 0001 | 3862. | 275. | 0000 | 15 | 3332 | 0 | |
| | | | | | **COMMENTS** | | SIGNIFICANT PERCENT OF DISCOASTERS 81-275 CM | | | | | | | | | | | |
| AII | 92 | 2 | 0027 | 0000 | 15 | 7510 1 | 22 58.7'N | 43 30.6'W | 12 | 77.23 | 0007 | 4431. | 648. | 0000 | 15 | 3348 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| AII | 92 | 2 | 0027 | 0000 | 26 | 7510 1 | 22 58.7'N | 43 30.6'W | 12 | 77.23 | 0007 | 4431. | 125. | 0000 | 15 | 3342 | 53 | |
| | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | | |
| CHN | 21 | 1 | 0002 | 0000 | 13 | 61 829 | 28 57.7'N | 48 56.5'W | 1 | 77.88 | 0002 | 4532. | 0. | 0000 | 11 | 0000 | 0 | IN JAR |
| CHN | 21 | 1 | 0003 | 0000 | 13 | 61 829 | 29 .0'N | 47 22.0'W | 1 | 77.97 | 0003 | 4715. | 0. | 0000 | 15 | 0000 | 0 | IN JAR |
| CHN | 21 | 1 | 0004 | 0000 | 13 | 61 830 | 28 56.5'N | 46 44.5'W | 1 | 77.86 | 0004 | 4376. | 0. | 0000 | 0 | 0000 | 0 | IN JAR |
| CHN | 21 | 1 | 0005 | 0000 | 13 | 61 830 | 28 45.3'N | 44 56.3'W | 1 | 77.84 | 0005 | 3923. | 170. | 0000 | 15 | 3350 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 0000 | 0 | IN JAR |
| 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 | 0000 | 0 | IN JAR |
| 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 | 3350 | 0 | |
| | | | | | **COMMENTS** | | VOID 0-214 CM CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 0000 | 0 | IN JARS |
| 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 | 0000 | 0 | IN JAR |
| 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 | 0000 | 0 | IN JAR |
| 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 | 0000 | 0 | |
| 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 | 3350 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 61 | 10 | 0174 | 0000 | 15 | 6612 9 | 27 52.5'N | 45 55.0'W | 1 | 77.75 | 0000 | 4148. | 708. | 0000 | 15 | 3329 | 41 | |
| CHN | 61 | 10 | 0175 | 0000 | 15 | 6612 9 | 27 52.5'N | 45 10.5'W | 1 | 77.75 | 0000 | 3690. | 552. | 0000 | 15 | 3329 | 41 | |
| CHN | 61 | 10 | 0177 | 0000 | 15 | 661211 | 28 19.0'N | 45 32.0'W | 1 | 77.85 | 0000 | 3881. | 447. | 0000 | 15 | 3359 | 41 | |
| | | | | | **COMMENTS** | | FLOW-IN,330-447 CM | | | | | | | | | | | |
| CHN | 61 | 10 | 0178 | 0000 | 15 | 661211 | 28 43.5'N | 46 48.0'W | 1 | 77.86 | 0000 | 4300. | 398. | 0000 | 15 | 3969 | 41 | |
| CHN | 96 | 4 | 0004 | 0000 | 15 | 691112 | 29 52.8'N | 41 19.4'W | 8 | 77.91 | 0004 | 3608. | 253. | 0000 | 14 | 3329 | 54 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 77 | | | | | | | | | | | |
| CHN | 96 | 4 | 0004 | 0000 | 26 | 691112 | 29 52.8'N | 41 19.4'W | 8 | 77.91 | 0004 | 3608. | 40. | 0000 | 14 | 3329 | 54 | |
| CHN | 99 | 2 | 0005 | 0000 | 15 | 70 427 | 29 27.8'N | 41 34.3'W | 8 | 77.91 | 0004 | 3318. | 830. | 0000 | 14 | 3731 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,365-830 CM | | | | | | | | | | | |
| CHN | 99 | 2 | 0006 | 0000 | 15 | 70 427 | 29 22.1'N | 40 51.3'W | 8 | 77.90 | 0005 | 3301. | 194. | 0000 | 14 | 3323 | 0 | MAR |
| | | | | | | | MARSDEN SQUARE # 78 | | | | | | | | | | | |
| AII | 31 | 1 | 0020 | 0000 | 15 | 67 426 | 21 28.5'N | 60 29.0'W | 1 | 78.10 | 0020 | 5634. | 752. | 0000 | 16 | 1129 | 0 | |
| AII | 31 | 1 | 0020 | 0000 | 26 | 67 426 | 21 28.5'N | 60 29.0'W | 1 | 78.10 | 0020 | 5634. | 93. | 0000 | 16 | 1159 | 0 | |
| AII | 42 | 1 | 0034 | 0000 | 15 | 68 719 | 20 20.5'N | 50 51.8'W | 1 | 78.00 | 0022 | 4802. | 848. | 0000 | 15 | 3428 | 54 | |
| AII | 42 | 1 | 0035 | 0000 | 15 | 68 719 | 20 37.5'N | 51 51.5'W | 1 | 78.01 | 0023 | 5155. | 45. | 0000 | 11 | 2934 | 47 | |
| AII | 42 | 1 | 0038 | 0000 | 15 | 68 720 | 21 18.5'N | 53 58.0'W | 1 | 78.13 | 0024 | 5286. | 895. | 0000 | 11 | 4322 | 54 | |
| AII | 42 | 1 | 0039 | 0000 | 15 | 68 721 | 21 44.0'N | 55 2.0'W | 1 | 78.15 | 0025 | 5294. | 805. | 0000 | 11 | 1329 | 54 | |
| AII | 42 | 1 | 0041 | 0000 | 15 | 68 721 | 22 14.0'N | 56 39.0'W | 1 | 78.26 | 0027 | 5962. | 738. | 0000 | 11 | 1159 | 54 | |
| AII | 42 | 1 | 0042 | 0000 | 15 | 68 722 | 24 16.0'N | 58 23.0'W | 1 | 78.48 | 0028 | 5823. | 746. | 0000 | 11 | 1159 | 54 | |
| AII | 42 | 1 | 0042 | 0000 | 26 | 68 722 | 24 16.0'N | 58 23.0'W | 1 | 78.48 | 0028 | 5823. | 197. | 0000 | 11 | 1159 | 0 | |
| AII | 42 | 1 | 0378 | 0000 | 13 | 68 720 | 21 .0'N | 52 56.0'W | 1 | 78.12 | 0001 | 4701. | 145. | 0000 | 11 | 3352 | 0 | |
| CHN | 21 | 1 | 0001 | 0000 | 13 | 61 827 | 29 51.0'N | 54 35.2'W | 5 | 78.94 | 0001 | 5607. | 0. | 0000 | 11 | 0000 | 0 | IN JAR |
| CHN | 39 | 2 | 0001 | 0000 | 13 | 63 9 6 | 29 .0'N | 59 13.0'W | 5 | 78.99 | 0001 | 5815. | 291. | 0000 | 11 | 4869 | 0 | |
| CHN | 39 | 2 | 0004 | 0000 | 13 | 63 910 | 25 18.0'N | 55 44.5'W | 5 | 78.55 | 0002 | 5937. | 201. | 0000 | 11 | 1179 | 0 | |
| CHN | 39 | 2 | 0007 | 0000 | 13 | 63 911 | 24 3.3'N | 55 15.0'W | 5 | 78.45 | 0003 | 5984. | 172. | 0000 | 11 | 1159 | 0 | |
| CHN | 39 | 2 | 0009 | 0000 | 13 | 63 913 | 27 55.5'N | 57 .0'W | 5 | 78.77 | 0004 | 5960. | 172. | 0000 | 11 | 1159 | 0 | |
| CHN | 39 | 2 | 0010 | 0000 | 13 | 63 914 | 28 30.0'N | 57 59.0'W | 5 | 78.87 | 0005 | 5696. | 160. | 0000 | 11 | 1429 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 79 | | | | | | | | | | | |
| AII | 31 | 1 | 0021 | 0000 | 15 | 67 428 | 26 28.0'N | 61 41.5'W | 1 | 79.61 | 0021 | 5884. | 521. | 0000 | 10 | 2231 | 0 | |
| | | | | | **COMMENTS** | | COREIN POOR CONDITION | | | | | | | | | | | |
| AII | 31 | 1 | 0022 | 0000 | 15 | 67 429 | 27 29.5'N | 63 5.5'W | 1 | 79.73 | 0022 | 5380. | 92. | 0000 | 10 | 1429 | 0 | |
| AII | 42 | 1 | 0043 | 0000 | 15 | 68 723 | 27 16.0'N | 60 37.5'W | 1 | 79.70 | 0029 | 5629. | 257. | 0000 | 10 | 1469 | 54 | |
| AII | 42 | 1 | 0043 | 0000 | 26 | 68 723 | 27 16.0'N | 60 37.5'W | 1 | 79.70 | 0029 | 5629. | 165. | 0000 | 10 | 4459 | 0 | |
| AII | 42 | 1 | 0044 | 0000 | 15 | 68 724 | 29 4.0'N | 62 .0'W | 1 | 79.92 | 0030 | 5265. | 911. | 0000 | 13 | 2429 | 54 | |
| 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 | 4136 | 0 | |
| 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 | 2839 | 0 | |
| 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 | 3359 | 0 | 16 HITS |
| 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 | 3359 | 0 | 14 HITS |
| 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 | 4126 | 0 | |
| 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 | 3359 | 0 | 12 HITS |
| 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 | 3359 | 0 | 12 HITS |
| 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 | 3436 | 0 | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |

STATION DATA RETRIEVAL
DATE: 17:38 JUN 08,'77

MARSDEN SQUARE # 79

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 4459 | 0 | 13 HITS |
| 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 | 4439 | 0 | |
| 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 | 4459 | 0 | 14 HITS |
| 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 | 4969 | 0 | 15 HITS |
| 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 | 3329 | 0 | 15 HITS |
| 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 | 4429 | 0 | |
| 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 | 3359 | 0 | 15 HITS |
| 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 | 4969 | 0 | 15 HITS |
| 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 | 4339 | 0 | |
| 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 | 3969 | 0 | 15 HITS |
| AII | 60 | 8 | 0017 | 0000 | 13 | 71 810 | 23 54.2'N | 68 4.9'W | 9 | 79.38 | 0013 | 5719. | 189. | 0000 | 13 | 1439 | 0 | |
| 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 | 3359 | 0 | 15 HITS |
| AII | 60 | 8 | 0018 | 0000 | 14 | 71 810 | 23 43.4'N | 68 16.6'W | 9 | 79.38 | 0013 | 5520. | 89. | 0000 | 13 | 3359 | 0 | 15 HITS |
| AII | 60 | 8 | 0019 | 0000 | 14 | 71 810 | 23 37.4'N | 68 24.6'W | 9 | 79.38 | 0014 | 5379. | 115. | 0000 | 13 | 3359 | 0 | 12 HITS |
| AII | 60 | 8 | 0019 | 0000 | 13 | 71 810 | 23 36.0'N | 68 23.2'W | 9 | 79.38 | 0015 | 5379. | 145. | 0000 | 13 | 4329 | 0 | |
| AII | 60 | 8 | 0020 | 0000 | 13 | 71 811 | 23 27.9'N | 68 33.8'W | 9 | 79.38 | 0016 | 5249. | 222. | 0000 | 13 | 4316 | 0 | |
| AII | 60 | 8 | 0020 | 0000 | 14 | 71 811 | 23 29.4'N | 68 35.0'W | 9 | 79.38 | 0015 | 5223. | 91. | 0000 | 13 | 3359 | 0 | 14 HITS |
| AII | 60 | 8 | 0021 | 0000 | 14 | 71 811 | 23 15.5'N | 68 43.5'W | 5 | 79.38 | 0016 | 5303. | 111. | 0000 | 13 | 3969 | 0 | 15 HITS |
| AII | 60 | 8 | 0021 | 0000 | 13 | 71 811 | 23 14.7'N | 68 42.4'W | 5 | 79.38 | 0017 | 5333. | 55. | 0000 | 13 | 3359 | 0 | |
| AII | 60 | 8 | 0022 | 0000 | 13 | 71 811 | 22 51.0'N | 68 13.3'W | 5 | 79.28 | 0018 | 5282. | 130. | 0000 | 13 | 4969 | 0 | |
| AII | 60 | 8 | 0022 | 0000 | 14 | 71 812 | 22 51.5'N | 68 17.1'W | 9 | 79.28 | 0017 | 5313. | 110. | 0000 | 13 | 3359 | 0 | 13 HITS |
| AII | 60 | 8 | 0023 | 0000 | 13 | 71 812 | 22 44.0'N | 67 53.7'W | 9 | 79.27 | 0019 | 5365. | 226. | 0000 | 13 | 3969 | 0 | |
| AII | 60 | 8 | 0023 | 0000 | 14 | 71 812 | 22 44.2'N | 67 55.8'W | 9 | 79.27 | 0018 | 5320. | 81. | 0000 | 13 | 3359 | 0 | 11 HITS |
| AII | 60 | 8 | 0024 | 0000 | 14 | 71 812 | 22 51.6'N | 66 32.3'W | 9 | 79.26 | 0019 | 5821. | 112. | 0000 | 13 | 4339 | 0 | 14 HITS |
| AII | 60 | 8 | 0025 | 0000 | 14 | 71 813 | 22 31.9'N | 66 54.9'W | 9 | 79.26 | 0020 | 5658. | 110. | 0000 | 13 | 4459 | 0 | 10 HITS |
| AII | 60 | 8 | 0026 | 0000 | 14 | 71 813 | 22 15.5'N | 67 21.0'W | 5 | 79.27 | 0021 | 5417. | 117. | 0000 | 13 | 4969 | 0 | 13 HITS |
| AII | 60 | 8 | 0027 | 0000 | 14 | 71 813 | 21 51.1'N | 67 40.9'W | 9 | 79.17 | 0022 | 5207. | 118. | 0000 | 13 | 3359 | 0 | 14 HITS |
| AII | 60 | 8 | 0028 | 0000 | 14 | 71 814 | 21 7.3'N | 68 6.3'W | 9 | 79.18 | 0023 | 5444. | 109. | 0000 | 13 | 3359 | 0 | 14 HITS |
| AII | 60 | 8 | 0029 | 0000 | 14 | 71 814 | 20 38.5'N | 68 25.0'W | 5 | 79.08 | 0024 | 5157. | 108. | 0000 | 13 | 3359 | 0 | 15 HITS |
| AII | 60 | 8 | 0030 | 0000 | 14 | 71 814 | 20 13.0'N | 68 37.0'W | 5 | 79.08 | 0025 | 4850. | 123. | 0000 | 13 | 3359 | 0 | 14 HITS |
| ATL | 282 | 1 | 0001 | 0000 | 13 | 62 712 | 29 39.0'N | 66 22.0'W | 5 | 79.96 | 0001 | 5128. | 209. | 0000 | 13 | 4129 | 41 | |
| ATL | 282 | 1 | 0002 | 0000 | 13 | 62 713 | 28 52.0'N | 66 51.0'W | 5 | 79.86 | 0002 | 5451. | 190. | 0000 | 13 | 3459 | 41 | |
| ATL | 282 | 1 | 0009 | 0000 | 13 | 62 721 | 25 18.0'N | 69 1.0'W | 5 | 79.59 | 0009 | 5593. | 196. | 0000 | 10 | 4159 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0010 | 0000 | 13 | 62 722 | 23 37.0'N | 67 54.0'W | 5 | 79.37 | 0010 | 5668. | 171. | 0000 | 10 | 4159 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0011 | 0000 | 13 | 62 723 | 21 47.0'N | 68 51.0'W | 5 | 79.18 | 0011 | 5513. | 185. | 0000 | 13 | 1859 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0012 | 0000 | 13 | 62 724 | 20 22.0'N | 67 23.0'W | 5 | 79.07 | 0012 | 5416. | 155. | 0000 | 13 | 4143 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0013 | 0000 | 13 | 62 729 | 21 54.0'N | 66 37.0'W | 5 | 79.16 | 0013 | 5653. | 131. | 0000 | 13 | 4159 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0014 | 0000 | 13 | 62 730 | 23 40.0'N | 65 37.0'W | 5 | 79.35 | 0014 | 5771. | 243. | 0000 | 10 | 1159 | 41 | |
| | | | | | **COMMENTS** | | | VERY DRY, POOR CONDITION | | | | | | | | | | |
| ATL | 282 | 1 | 0015 | 0000 | 13 | 62 731 | 25 29.0'N | 64 34.0'W | 5 | 79.54 | 0015 | 5706. | 245. | 0000 | 10 | 1159 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 79 | | | | | | | | | | |
| 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 | 1453 | 41 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 4153 | 41 | |
| 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 | 1449 | 41 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 4129 | 41 | |
| 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 | 1429 | 41 | |
| 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 | 3469 | 41 | |
| CHN | 11 | 1 | 0012 | 0000 | 15 | 60 229 | 20 50.0'N | 66 27.0'W | 4 | 79.06 | 0012 | 4548. | 550. | 0000 | 17 | 1179 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION;FLOW-IN,43-125;125-217 VOID | | | | | | | | | | | |
| CHN | 19 | 1 | 0002 | 0000 | 15 | 61 624 | 20 12.1'N | 66 36.2'W | 5 | 79.06 | 0002 | 5789. | 463. | 0000 | 17 | 1150 | 0 | |
| 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 | 1150 | 0 | |
| CHN | 36 | 1 | 0001 | 0000 | 13 | 63 620 | 21 7.3'N | 65 2.5'W | 5 | 79.15 | 0001 | 5306. | 173. | 0000 | 17 | 4122 | 0 | |
| CHN | 36 | 1 | 0003 | 0000 | 15 | 63 622 | 20 18.0'N | 63 39.5'W | 5 | 79.03 | 0002 | 5728. | 41. | 0000 | 17 | 1223 | 0 | |
| CHN | 39 | 2 | 0011 | 0000 | 13 | 63 916 | 29 55.0'N | 60 31.5'W | 4 | 79.90 | 0006 | 5705. | 193. | 0000 | 11 | 1143 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 39 | 2 | 0015 | 0000 | 13 | 63 919 | 29 46.5'N | 62 11.5'W | 4 | 79.92 | 0007 | 4897. | 212. | 0000 | 11 | 3149 | 0 | |
| 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 | 3422 | 0 | |
| CHN | 57 | 1 | 0014 | 0000 | 15 | 66 314 | 20 14.2'N | 65 21.5'W | 5 | 79.05 | 0001 | 6154. | 581. | 0000 | 17 | 6659 | 0 | |
| CHN | 57 | 1 | 0014 | 0000 | 26 | 66 314 | 20 14.2'N | 65 21.5'W | 5 | 79.05 | 0001 | 6154. | 61. | 0000 | 17 | 6659 | 0 | |
| CHN | 57 | 1 | 0016 | 0000 | 15 | 66 317 | 20 5.3'N | 64 35.7'W | 5 | 79.04 | 0002 | 5808. | 465. | 0000 | 17 | 1629 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 57 | 1 | 0016 | 0000 | 26 | 66 317 | 20 5.3'N | 64 35.7'W | 5 | 79.04 | 0002 | 5808. | 44. | 0000 | 17 | 1629 | 0 | |
| CHN | 57 | 1 | 0018 | 0000 | 15 | 66 318 | 20 6.3'N | 65 1.2'W | 5 | 79.05 | 0003 | 6159. | 547. | 0000 | 17 | 1129 | 0 | |
| CHN | 57 | 1 | 0021 | 0000 | 15 | 66 323 | 20 3.3'N | 66 9.0'W | 5 | 79.06 | 0004 | 6618. | 298. | 0000 | 17 | 2464 | 0 | |
| CHN | 57 | 1 | 0022 | 0000 | 15 | 66 325 | 22 40.7'N | 66 29.6'W | 5 | 79.26 | 0005 | 5820. | 841. | 0000 | 10 | 1849 | 0 | NARES BASIN |
| | | | | | **COMMENTS** | | VOID;248-270 AND 554-570 CM | | | | | | | | | | | |
| CHN | 57 | 1 | 0022 | 0000 | 26 | 66 325 | 22 40.7'N | 66 29.6'W | 5 | 79.26 | 0005 | 5820. | 76. | 0000 | 10 | 4129 | 0 | |
| CHN | 57 | 1 | 0023 | 0000 | 15 | 66 325 | 22 28.0'N | 66 34.0'W | 5 | 79.26 | 0006 | 5613. | 816. | 0000 | 10 | 1429 | 0 | NARES BASIN |
| CHN | 57 | 1 | 0023 | 0000 | 26 | 66 325 | 22 28.0'N | 66 34.0'W | 5 | 79.26 | 0006 | 5613. | 88. | 0000 | 10 | 1159 | 0 | NARES BASIN |
| CHN | 57 | 1 | 0024 | 0000 | 15 | 66 329 | 22 42.3'N | 67 42.2'W | 5 | 79.27 | 0007 | 5531. | 895. | 0000 | 10 | 4839 | 0 | NARES BASIN |
| CHN | 57 | 1 | 0024 | 0000 | 26 | 66 329 | 22 42.3'N | 67 42.2'W | 5 | 79.27 | 0007 | 5531. | 80. | 0000 | 10 | 1439 | 0 | NARES BASIN |
| CHN | 57 | 1 | 0025 | 0000 | 15 | 66 329 | 22 40.0'N | 67 41.0'W | 5 | 79.27 | 0008 | 5389. | 927. | 0000 | 10 | 2429 | 0 | |
| CHN | 57 | 1 | 0028 | 0000 | 15 | 66 4 6 | 20 .0'N | 64 17.8'W | 5 | 79.04 | 0009 | 6414. | 700. | 0000 | 17 | 1629 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,530-700 CM | | | | | | | | | | | |
| 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 | 1139 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 57 | 1 | 0036 | 0000 | 15 | 66 410 | 20 11.4'N | 67 38.6'W | 5 | 79.07 | 0012 | 5547. | 532. | 0000 | 17 | 1968 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,374-532 CM | | | | | | | | | | | |
| CHN | 57 | 1 | 0038 | 0000 | 15 | 66 411 | 21 30.8'N | 68 14.7'W | 5 | 79.18 | 0014 | 5368. | 551. | 0000 | 13 | 1942 | 0 | |
| KNR | 25 | 1 | 0001 | 0000 | 14 | 72 210 | 25 1.5'N | 68 3.5'W | 5 | 79.58 | 0001 | 5523. | 61. | 0000 | 10 | 4449 | 0 | 14 HITS |
| KNR | 25 | 1 | 0002 | 0000 | 14 | 72 210 | 24 42.2'N | 68 8.0'W | 9 | 79.48 | 0002 | 5689. | 147. | 0000 | 10 | 2240 | 0 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES: MOTTLING, INDURATED SEDIMENT, NUMEROUS LAMINATIONS | | | | | | | | | | | |
| KNR | 25 | 1 | 0002 | 0000 | 16 | 72 215 | 23 55.6'N | 68 36.4'W | 5 | 79.38 | 0002 | 5515. | 832. | 0000 | 13 | 6262 | 0 | |
| KNR | 25 | 1 | 0003 | 0000 | 14 | 72 211 | 24 23.8'N | 68 11.4'W | 9 | 79.48 | 0003 | 5729. | 150. | 0000 | 10 | 4442 | 0 | 14 HITS |
| KNR | 25 | 1 | 0003 | 0000 | 17 | 72 215 | 22 15.0'N | 67 57.5'W | 5 | 79.27 | 0003 | 5374. | 1139. | 0000 | 13 | 2462 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 79 | | | | | | | | | | |
| KNR | 25 | 1 | 0004 | 0000 | 14 | 72 216 | 23 45.2'N | 69 40.8'W | 5 | 79.39 | 0004 | 5392. | 136. | 0000 | 13 | 4459 | 0 | |
| KNR | 25 | 1 | 0004 | 0000 | 16 | 72 216 | 21 30.0'N | 67 31.0'W | 5 | 79.17 | 0004 | 5163. | 2159. | 0000 | 13 | 4422 | 0 | |
| KNR | 25 | 1 | 0005 | 0000 | 14 | 72 212 | 23 48.5'N | 69 54.5'W | 5 | 79.39 | 0005 | 5409. | 140. | 0000 | 13 | 4449 | 0 | 30 HITS |
| KNR | 25 | 1 | 0006 | 0000 | 14 | 72 212 | 23 52.6'N | 68 35.1'W | 9 | 79.38 | 0006 | 5486. | 145. | 0000 | 13 | 4449 | 0 | 30 HITS |
| KNR | 25 | 1 | 0007 | 0000 | 14 | 72 213 | 23 43.5'N | 68 41.5'W | 5 | 79.38 | 0007 | 5306. | 145. | 0000 | 13 | 4449 | 0 | 22 HITS |
| KNR | 25 | 1 | 0008 | 0000 | 14 | 72 213 | 23 57.2'N | 68 59.0'W | 9 | 79.38 | 0008 | 5451. | 142. | 0000 | 13 | 4449 | 0 | 22 HITS |
| KNR | 25 | 1 | 0009 | 0000 | 14 | 72 213 | 23 24.0'N | 69 6.1'W | 9 | 79.39 | 0009 | 5411. | 147. | 0000 | 13 | 4449 | 0 | 27 HITS |
| KNR | 25 | 1 | 0012 | 0000 | 13 | 72 214 | 23 46.7'N | 69 42.3'W | 5 | 79.39 | 0012 | 5419. | 68. | 0000 | 13 | 4459 | 0 | |
| KNR | 25 | 1 | 0013 | 0000 | 13 | 72 215 | 22 15.4'N | 67 56.9'W | 5 | 79.27 | 0013 | 5374. | 39. | 0000 | 13 | 4459 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 80 | | | | | | | | | | |
| ALL | 1 | 1 | 0005 | 0000 | 15 | 63 228 | 29 10.0'N | 76 22.0'W | 5 | 80.96 | 0005 | 4994. | 285. | 0000 | 10 | 3739 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION PRIMARY AN SECONDARY SED TYPE: CALC-SILIC OOZE | | | | | | | | | | | |
| ATL | 223 | 1 | 0001 | 0000 | 13 | 56 5 3 | 29 31.3'N | 79 .2'W | 5 | 80.10 | 0001 | 0. | 0. | 115G | 7 | 0000 | 0 | |
| ATL | 282 | 1 | 0003 | 0000 | 13 | 62 716 | 23 32.5'N | 70 2.0'W | 5 | 80.30 | 0003 | 5492. | 120. | 0000 | 10 | 4841 | 41 | |
| ATL | 282 | 1 | 0005 | 0000 | 13 | 62 717 | 23 28.0'N | 72 18.5'W | 5 | 80.32 | 0005 | 5287. | 164. | 0000 | 13 | 4149 | 41 | |
| ATL | 282 | 1 | 0006 | 0000 | 13 | 62 718 | 25 13.5'N | 73 16.0'W | 5 | 80.53 | 0006 | 5316. | 188. | 0000 | 13 | 4859 | 41 | |
| ATL | 282 | 1 | 0007 | 0000 | 13 | 62 719 | 26 59.0'N | 72 13.0'W | 5 | 80.62 | 0007 | 5154. | 228. | 0000 | 10 | 4129 | 41 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| ATL | 282 | 1 | 0008 | 0000 | 13 | 62 720 | 25 11.0'N | 71 16.0'W | 5 | 80.51 | 0008 | 5520. | 30. | 0000 | 10 | 4869 | 41 | |
| 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 | 4249 | 41 | |
| CHN | 41 | 1 | 0001 | 0000 | 13 | 6312 5 | 21 53.0'N | 70 16.0'W | 5 | 80.10 | 0001 | 5492. | 0. | 0000 | 13 | 0000 | 0 | IN JAR |
| CHN | 53 | 1 | 0001 | 0000 | 18 | 651020 | 28 49.0'N | 70 52.5'W | 5 | 80.80 | 0001 | 5246. | 43. | 0000 | 10 | 2839 | 0 | |
| CHN | 53 | 1 | 0002 | 0000 | 18 | 651021 | 28 53.0'N | 70 54.5'W | 5 | 80.80 | 0002 | 5246. | 66. | 0000 | 10 | 4839 | 0 | |
| CHN | 53 | 1 | 0003 | 0000 | 18 | 651021 | 28 50.0'N | 70 54.0'W | 5 | 80.80 | 0003 | 5246. | 34. | 0000 | 10 | 2849 | 0 | |
| CHN | 53 | 1 | 0004 | 0000 | 18 | 651021 | 28 44.0'N | 70 55.6'W | 5 | 80.80 | 0004 | 5246. | 26. | 0000 | 10 | 2439 | 0 | |
| 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 | 3269 | 0 | |
| KNR | 31 | 4 | 0007 | 0000 | 16 | 73 720 | 28 17.9'N | 72 17.8'W | 9 | 80.82 | 0007 | 4935. | 4158. | 0000 | 13 | 4139 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,3050-4158 CM | | | | | | | | | | | |
| KNR | 31 | 4 | 0008 | 0000 | 16 | 73 722 | 28 41.7'N | 75 16.0'W | 9 | 80.85 | 0008 | 4962. | 2946. | 0000 | 13 | 4331 | 0 | |
| KNR | 31 | 4 | 0009 | 0000 | 16 | 73 723 | 28 14.7'N | 74 26.4'W | 9 | 80.84 | 0009 | 4758. | 3689. | 0000 | 13 | 4139 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,2461-3689 CM | | | | | | | | | | | |
| KNR | 31 | 5 | 0010 | 0000 | 14 | 73 815 | 28 36.8'N | 75 19.5'W | 9 | 80.85 | 0010 | 4967. | 99. | 0000 | 13 | 4439 | 0 | 12 HITS |
| KNR | 31 | 5 | 0011 | 0000 | 16 | 73 816 | 28 38.0'N | 75 21.5'W | 11 | 80.85 | 0011 | 4967. | 2464. | 0000 | 13 | 4339 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,1710-2464 CM | | | | | | | | | | | |
| KNR | 31 | 5 | 0012 | 0000 | 16 | 73 819 | 28 35.6'N | 75 27.3'W | 9 | 80.85 | 0012 | 4980. | 1399. | 0000 | 10 | 4331 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,650-1399 CM | | | | | | | | | | | |
| KNR | 31 | 5 | 0013 | 0000 | 14 | 73 819 | 28 35.7'N | 75 25.5'W | 11 | 80.85 | 0013 | 4982. | 106. | 0000 | 10 | 3339 | 0 | |
| KNR | 31 | 5 | 0014 | 0000 | 14 | 73 820 | 28 15.0'N | 75 24.5'W | 11 | 80.85 | 0014 | 4765. | 110. | 0000 | 13 | 3359 | 0 | |
| KNR | 31 | 5 | 0016 | 0000 | 18 | 73 824 | 28 16.1'N | 75 25.3'W | 11 | 80.85 | 0016 | 4780. | 76. | 0000 | 13 | 3433 | 0 | |
| KNR | 31 | 5 | 0016 | 0000 | 18 | 73 824 | 28 16.1'N | 75 25.3'W | 11 | 80.85 | 0018 | 4780. | 76. | 0000 | 13 | 3439 | 0 | |
| KNR | 31 | 5 | 0016 | 0000 | 18 | 73 824 | 28 16.1'N | 75 25.3'W | 11 | 80.85 | 0019 | 4773. | 96. | 0000 | 13 | 4269 | 0 | |

| 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 VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 81 | | | | | | | | | | |
| ATL | 254 | 3 | 0324 | 0000 | 15 | 60 215 | 21 32.0'N | 83 10.0'W | 5 | 81.13 | 0001 | 3655. | 601. | 0000 | 10 | 3735 | 0 | |
| ATL | 254 | 3 | 0325 | 0000 | 15 | 60 216 | 21 11.0'N | 82 50.0'W | 5 | 81.12 | 0002 | 4463. | 218. | 0000 | 10 | 3725 | 0 | |
| ATL | 254 | 3 | 0325 | 0000 | 26 | 60 216 | 21 11.0'N | 82 50.0'W | 5 | 81.12 | 0002 | 4463. | 55. | 0000 | 10 | 3359 | 0 | |
| ATL | 254 | 3 | 0326 | 0000 | 15 | 60 216 | 21 11.0'N | 82 50.0'W | 5 | 81.12 | 0003 | 3596. | 537. | 0000 | 10 | 3379 | 0 | |
| | | | | | **COMMENTS** | | | FLOW-IN,21-537 CM | | | | | | | | | | |
| ATL | 254 | 3 | 0326 | 0000 | 26 | 60 216 | 21 11.0'N | 82 50.0'W | 5 | 81.12 | 0003 | 3596. | 56. | 0000 | 10 | 3759 | 0 | |
| ATL | 254 | 3 | 0327 | 0000 | 15 | 60 217 | 20 2.0'N | 84 11.0'W | 5 | 81.04 | 0004 | 4500. | 498. | 0000 | 10 | 7439 | 0 | |
| ATL | 254 | 3 | 0328 | 0000 | 26 | 60 217 | 20 2.0'N | 84 11.0'W | 5 | 81.04 | 0005 | 4568. | 72. | 0000 | 10 | 3329 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 102 | | | | | | | | | | |
| AII | 15 | 4 | 0585 | 0000 | 13 | 65 321 | 20 9.0'N | 69 26.0'E | 9 | 102.09 | 0585 | 216. | 80. | 0000 | 2 | 3355 | 0 | |
| AII | 15 | 5 | 0586 | 0000 | 15 | 65 321 | 20 7.0'N | 67 55.0'E | 9 | 102.07 | 0016 | 3047. | 1210. | 0000 | 24 | 3422. | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS SMALL VOIDS THROUGHOUT CORE | | | | | | | | | | |
| AII | 15 | 5 | 0586 | 0000 | 26 | 65 321 | 20 7.0'N | 67 55.0'E | 9 | 102.07 | 0016 | 3047. | 102. | 0000 | 24 | 3332 | 0 | |
| AII | 15 | 5 | 0586 | 0000 | 13 | 65 321 | 20 7.5'N | 67 56.0'E | 9 | 102.07 | 0586 | 3049. | 87. | 0000 | 24 | 3332 | 0 | |
| AII | 15 | 5 | 0592 | 0000 | 18 | 65 325 | 20 50.0'N | 61 1.0'E | 9 | 102.01 | 0592 | 2628. | 97. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 5 | 0594 | 0000 | 15 | 65 325 | 20 35.0'N | 63 53.0'E | 9 | 102.03 | 0018 | 3338. | 990. | 0000 | 6 | 3860 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS SMALL VOIDS THROUGHOUT CORE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 103 | | | | | | | | | | |
| AII | 15 | 5 | 0589 | 0000 | 15 | 65 324 | 24 2.0'N | 59 53.1'E | 9 | 103.49 | 0017 | 3341. | 742. | 0000 | 6 | 2230 | 0 | |
| AII | 15 | 5 | 0589 | 0000 | 13 | 65 324 | 24 2.0'N | 59 53.1'E | 9 | 103.49 | 0589 | 3341. | 82. | 0000 | 6 | 4239 | 0 | |
| | | | | | **COMMENTS** | | | SEVERAL VOIDS IN CORE | | | | | | | | | | |
| AII | 15 | 5 | 0590 | 0000 | 13 | 65 324 | 23 7.0'N | 59 22.0'E | 9 | 103.39 | 0590 | 1805. | 42. | 0000 | 4 | 3359 | 0 | |
| AII | 15 | 5 | 0591 | 0000 | 13 | 65 325 | 21 .0'N | 59 33.0'E | 9 | 103.19 | 0591 | 1267. | 70. | 0000 | 4 | 3359 | 0 | |
| | | | | | | | | 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 | 0352 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 105 | | | | | | | | | | |
| AII | 15 | 3 | 0541 | 0000 | 15 | 65 218 | 21 17.0'N | 38 2.0'E | 9 | 105.18 | 0004 | 2089. | 0. | 0000 | 21 | 0000 | 0 | 3 BAGS |
| CHN | 61 | 5 | 0072 | 0000 | 15 | 66101 7 | 21 17.8'N | 38 2.8'E | 6 | 105.18 | 0000 | 1931. | 206. | 0000 | 21 | 4332 | 41 | |
| CHN | 61 | 5 | 0073 | 0000 | 13 | 66101 7 | 21 14.7'N | 38 4.7'E | 6 | 105.18 | 0000 | 2028. | 51. | 0000 | 21 | 3432 | 41 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 105 | | | | | | | | | | | |
| CHN | 61 | 6 | 0078 | 0000 | 18 | 661018 | 21 22.8'N | 38 .5'E | 10 | 105.18 | 078A | 1748. | 40. | 0000 | 16 | 3729 | 0 | |
| CHN | 61 | 6 | 0078 | 0000 | 18 | 661018 | 21 22.5'N | 38 4.0'E | 10 | 105.18 | 078C | 2056. | 90. | 0000 | 16 | 0059 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0078 | 0000 | 18 | 661018 | 21 22.5'N | 38 4.7'E | 10 | 105.18 | 078D | 2084. | 95. | 0000 | 16 | 0059 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0079 | 0000 | 13 | 661018 | 21 21.3'N | 38 3.6'E | 10 | 105.18 | 0000 | 2154. | 219. | 0000 | 16 | 0019 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0080 | 0000 | 15 | 661019 | 21 16.9'N | 38 2.0'E | 6 | 105.18 | 0000 | 2202. | 855. | 0000 | 16 | 4869 | 41 | |
| | | | | | **COMMENTS** | | POSSIBLE FLOW-IN,55-855 CM | | | | | | | | | | | |
| CHN | 61 | 6 | 0081 | 0000 | 15 | 661019 | 21 17.0'N | 38 2.1'E | 10 | 105.18 | 0000 | 2167. | 882. | 0000 | 16 | 4341 | 0 | |
| CHN | 61 | 6 | 0081 | 0000 | 26 | 661019 | 21 17.0'N | 38 2.1'E | 10 | 105.18 | 0000 | 2167. | 135. | 0000 | 16 | 4079 | 0 | |
| CHN | 61 | 6 | 0082 | 0000 | 18 | 661019 | 21 18.8'N | 38 3.8'E | 10 | 105.18 | 082B | 1984. | 92. | 0000 | 16 | 0019 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0082 | 0000 | 18 | 661019 | 21 18.8'N | 38 3.5'E | 10 | 105.18 | 082C | 1944. | 104. | 0000 | 16 | 4459 | 0 | |
| CHN | 61 | 6 | 0082 | 0000 | 18 | 661019 | 21 18.8'N | 38 3.2'E | 10 | 105.18 | 082D | 1967. | 121. | 0000 | 16 | 0439 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0084 | 0000 | 15 | 661020 | 21 21.0'N | 38 3.8'E | 10 | 105.18 | 0000 | 2167. | 955. | 0000 | 16 | 0019 | 41 | HOT BRINE |
| | | | | | **COMMENTS** | | VOID; 0-303 CM | | | HOT BRINE DEPOSITS THRU OUT | | | | | | | | |
| CHN | 61 | 6 | 0084 | 0000 | 20 | 661020 | 21 21.0'N | 38 3.8'E | 10 | 105.18 | 0000 | 2132. | 400. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0084 | 0000 | 26 | 661020 | 21 21.0'N | 38 3.8'E | 10 | 105.18 | 0000 | 2167. | 70. | 0000 | 16 | 0059 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0085 | 0000 | 20 | 661020 | 21 18.8'N | 38 3.9'E | 1 | 105.18 | 0085 | 1939. | 400. | 0000 | 16 | 0000 | 0 | |
| CHN | 61 | 6 | 0089 | 0000 | 18 | 661022 | 21 23.3'N | 38 3.4'E | 10 | 105.18 | 089B | 1917. | 90. | 0000 | 16 | 0432 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0089 | 0000 | 18 | 661022 | 21 22.8'N | 38 2.3'E | 10 | 105.18 | 0000 | 2107. | 121. | 0000 | 16 | 0059 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0094 | 0000 | 13 | 661020 | 21 20.8'N | 38 3.9'E | 10 | 105.18 | 0000 | 2171. | 255. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0095 | 0000 | 13 | 661022 | 21 23.3'N | 38 3.1'E | 10 | 105.18 | 0000 | 1940. | 200. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0095 | 0000 | 20 | 661022 | 21 23.4'N | 38 3.3'E | 10 | 105.18 | 0000 | 1882. | 305. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0096 | 0000 | 13 | 661022 | 21 26.5'N | 38 3.0'E | 10 | 105.18 | 0000 | 2048. | 54. | 0000 | 16 | 0059 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0106 | 0000 | 13 | 661023 | 21 21.2'N | 38 3.5'E | 10 | 105.18 | 0000 | 2167. | 84. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0107 | 0000 | 13 | 661023 | 21 21.7'N | 38 3.3'E | 10 | 105.18 | 0000 | 2153. | 78. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0108 | 0000 | 13 | 661023 | 21 22.4'N | 38 4.7'E | 10 | 105.18 | 0000 | 1889. | 197. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0109 | 0000 | 13 | 661023 | 21 24.1'N | 38 4.0'E | 10 | 105.18 | 0000 | 2078. | 260. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 6 | 0111 | 0000 | 18 | 661024 | 21 21.6'N | 38 5.5'E | 10 | 105.18 | 111D | 1966. | 122. | 0000 | 16 | 0339 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0111 | 0000 | 18 | 661024 | 21 21.6'N | 38 5.3'E | 10 | 105.18 | 111C | 2017. | 122. | 0000 | 16 | 0059 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0118 | 0000 | 20 | 661025 | 21 14.4'N | 38 4.3'E | 10 | 105.18 | 0118 | 1959. | 400. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0120 | 0000 | 20 | 661025 | 21 22.6'N | 38 4.5'E | 10 | 105.18 | 0120 | 2028. | 400. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 61 | 6 | 0122 | 0000 | 13 | 661026 | 21 17.6'N | 38 1.5'E | 10 | 105.18 | 0122 | 1944. | 298. | 0000 | 16 | 0331 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0124 | 0000 | 15 | 661030 | 21 23.2'N | 38 4.3'E | 10 | 105.18 | 0000 | 2057. | 125. | 0000 | 16 | 4459 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0124 | 0000 | 26 | 661030 | 21 23.2'N | 38 4.3'E | 10 | 105.18 | 0000 | 2057. | 95. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0126 | 0000 | 15 | 661030 | 21 21.9'N | 38 4.4'E | 10 | 105.18 | 0000 | 2068. | 810. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0126 | 0000 | 26 | 661030 | 21 21.9'N | 38 4.4'E | 10 | 105.18 | 0000 | 2068. | 205. | 0000 | 16 | 0039 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0127 | 0000 | 15 | 661030 | 21 22.4'N | 38 2.9'E | 10 | 105.18 | 0000 | 2106. | 834. | 0000 | 16 | 0449 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0127 | 0000 | 26 | 661030 | 21 22.4'N | 38 2.9'E | 10 | 105.18 | 0000 | 2106. | 148. | 0000 | 16 | 0059 | 41 | HOT BRINE |
| | | | | | **COMMENTS** | | VOID; 0-15 CM | | | | | | | | | | | |
| CHN | 61 | 7 | 0128 | 0000 | 15 | 661030 | 21 25.4'N | 38 3.4'E | 10 | 105.18 | 0000 | 2077. | 874. | 0000 | 16 | 0339 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0128 | 0000 | 26 | 661030 | 21 25.4'N | 38 3.4'E | 10 | 105.18 | 0000 | 2077. | 170. | 0000 | 16 | 0339 | 41 | HOT BRINE |
| CHN | 61 | 7 | 0129 | 0000 | 15 | 661030 | 21 25.3'N | 38 2.9'E | 10 | 105.18 | 0000 | 2027. | 158. | 0000 | 16 | 4447 | 41 | |
| CHN | 61 | 7 | 0135 | 0000 | 13 | 6611 1 | 21 30.0'N | 38 16.0'E | 10 | 105.18 | 0000 | 752. | 23. | 0000 | 16 | 4969 | 41 | |
| CHN | 61 | 7 | 0136 | 0000 | 13 | 6611 1 | 21 28.0'N | 38 13.0'E | 10 | 105.18 | 0000 | 1277. | 39. | 0000 | 16 | 3352 | 41 | |
| CHN | 61 | 7 | 0139 | 0000 | 18 | 6611 1 | 21 25.7'N | 38 2.8'E | 10 | 105.18 | 139A | 1972. | 122. | 0000 | 16 | 0447 | 0 | HOT BRINE |
| CHN | 61 | 7 | 0139 | 0000 | 18 | 6611 1 | 21 25.7'N | 38 2.7'E | 10 | 105.18 | 139B | 2007. | 122. | 0000 | 16 | 0017 | 0 | HOT BRINE |
| CHN | 61 | 7 | 0143 | 0000 | 20 | 6611 2 | 21 27.0'N | 38 3.0'E | 10 | 105.18 | 0000 | 1882. | 354. | 0000 | 16 | 0000 | 0 | HOT BRINE |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 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 | 4345 | 41 | |
| CHN | 61 | 7 | 0156 | 0000 | 18 | 6611 6 | 20 59.0'N | 38 19.0'E | 1 | 105.08 | 156A | 1748. | 50. | 0000 | 21 | 3429 | 0 | |
| CHN | 61 | 7 | 0156 | 0000 | 18 | 6611 6 | 20 58.5'N | 38 20.5'E | 1 | 105.08 | 156B | 1331. | 65. | 0000 | 21 | 3339 | 0 | |
| CHN | 61 | 7 | 0158 | 0000 | 13 | 6611 7 | 21 17.8'N | 38 2.8'E | 1 | 105.18 | 0000 | 2209. | 162. | 0000 | 21 | 3439 | 41 | |
| CHN | 61 | 7 | 0159 | 0000 | 15 | 6611 7 | 21 18.2'N | 38 3.5'E | 1 | 105.18 | 0000 | 1982. | 332. | 0000 | 16 | 4962 | 0 | |
| CHN | 61 | 7 | 0159 | 0000 | 26 | 6611 7 | 21 18.2'N | 38 3.5'E | 1 | 105.18 | 0000 | 1982. | 160. | 0000 | 16 | 0337 | 0 | HOT BRINE |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE, HOT BRINE SEDIMENT | | | | | | | | | | | |
| CHN | 61 | 7 | 0161 | 0000 | 20 | 6611 9 | 21 18.6'N | 38 3.7'E | 1 | 105.18 | 0000 | 1920. | 324. | 0000 | 16 | 0000 | 0 | |
| CHN | 61 | 7 | 0165 | 0000 | 26 | 6611 9 | 22 28.2'N | 37 46.5'E | 1 | 105.27 | 0000 | 2167. | 102. | 0000 | 21 | 3739 | 0 | |
| CHN | 61 | 7 | 0167 | 0000 | 15 | 661110 | 23 20.0'N | 37 20.0'E | 1 | 105.37 | 0000 | 827. | 757. | 0000 | 21 | 3329 | 41 | |
| 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 | 3328 | 0 | RED SEA |
| 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 | 0000 | 0 | ALL DEEP |
| | | | | | **COMMENTS** | | CORE UNSPLIT RED SEA HOT BRINE SED REFER TO DR. DAVID ROSS FOR MORE INFO | | | | | | | | | | | |
| 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 | 0000 | 0 | UNSPLIT |
| 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 | 0000 | 0 | HOT BRINE |
| 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 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0012 | 0000 | 15 | 71 310 | 21 22.2'N | 38 5.2'E | 1 | 105.18 | 0010 | 2048. | 346. | 0000 | 16 | 0000 | 45 | HOT BRINE |
| CHN | 100 | 3 | 0012 | 0000 | 26 | 71 310 | 21 22.2'N | 38 5.2'E | 1 | 105.18 | 0010 | 2048. | 150. | 0000 | 16 | 0000 | 45 | HOT BRINE |
| CHN | 100 | 3 | 0013 | 0000 | 13 | 71 310 | 21 25.6'N | 38 2.6'E | 1 | 105.18 | 0011 | 2088. | 133. | 0000 | 16 | 0000 | 45 | HOT BRINE |
| CHN | 100 | 3 | 0014 | 0000 | 15 | 71 311 | 21 25.0'N | 38 4.8'E | 1 | 105.18 | 0012 | 2035. | 0. | 0000 | 16 | 0000 | 0 | |
| | | | | | **COMMENTS** | | CORE UNSPLIT RED SEA HOT BRINE SED REFER TO DR. DAVID ROSS FOR MORE INFO | | | | | | | | | | | |
| CHN | 100 | 3 | 0014 | 0000 | 26 | 71 311 | 21 25.0'N | 38 4.8'E | 1 | 105.18 | 0012 | 2035. | 153. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0016 | 0000 | 15 | 71 311 | 21 18.1'N | 38 5.2'E | 1 | 105.18 | 0013 | 1838. | 209. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0016 | 0000 | 26 | 71 311 | 21 18.1'N | 38 5.2'E | 1 | 105.18 | 0013 | 1838. | 86. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0018 | 0000 | 15 | 71 311 | 21 24.8'N | 38 4.7'E | 1 | 105.18 | 0014 | 1926. | 565. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 100 | 3 | 0018 | 0000 | 26 | 71 311 | 21 24.8'N | 38 4.7'E | 1 | 105.18 | 0014 | 1926. | 153. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 100 | 3 | 0019 | 0000 | 15 | 71 312 | 21 21.0'N | 38 5.1'E | 1 | 105.18 | 0015 | 1869. | 140. | 0000 | 16 | 0000 | 0 | HOT BRINE |
| CHN | 100 | 3 | 0019 | 0000 | 26 | 71 312 | 21 21.0'N | 38 5.1'E | 1 | 105.18 | 0015 | 1869. | 125. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0020 | 0000 | 15 | 71 312 | 21 19.1'N | 38 7.4'E | 1 | 105.18 | 0016 | 1880. | 485. | 0000 | 16 | 3421 | 0 | |
| CHN | 100 | 3 | 0020 | 0000 | 26 | 71 312 | 21 19.1'N | 38 7.4'E | 1 | 105.18 | 0016 | 1880. | 152. | 0000 | 16 | 3327 | 0 | |
| CHN | 100 | 3 | 0023 | 0000 | 15 | 71 313 | 21 16.6'N | 37 59.7'E | 1 | 105.17 | 0017 | 1659. | 775. | 0000 | 16 | 3327 | 0 | |
| | | | | | **COMMENTS** | | VOIDS,54-731 AND 194-199 CM | | | | | | | | | | | |
| CHN | 100 | 3 | 0024 | 0000 | 15 | 71 316 | 21 21.7'N | 38 3.9'E | 1 | 105.18 | 0018 | 2128. | 905. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0024 | 0000 | 26 | 71 316 | 21 21.7'N | 38 3.9'E | 1 | 105.18 | 0018 | 2128. | 153. | 0000 | 16 | 0000 | 0 | UNSPLIT |
| CHN | 100 | 3 | 0026 | 0000 | 15 | 71 316 | 21 22.2'N | 38 14.0'E | 1 | 105.18 | 0019 | 1390. | 739. | 0000 | 15 | 3827 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,34-75 CM | | | | | | | | | | | |
| CHN | 100 | 3 | 0027 | 0000 | 15 | 71 316 | 21 22.4'N | 38 17.3'E | 1 | 105.18 | 0020 | 1026. | 508. | 0000 | 15 | 3838 | 0 | |
| | | | | | **COMMENTS** | | SEMI-LITHIFIED CARBONATE FRAGMENTS GRADED WITH SAND GRAINS | | | | | | | | | | | |
| | | | | | **COMMENTS** | | FLOW-IN 54-508 CM | | | | | | | | | | | |
| CHN | 100 | 3 | 0028 | 0000 | 15 | 71 320 | 21 18.8'N | 38 58.8'E | 1 | 105.18 | 0021 | 885. | 606. | 0000 | 4 | 3738 | 0 | |
| | | | | | **COMMENTS** | | SEMI-LITHIFIED CARBONATE FRAGMENTS GRADED WITH FORAM SAND | | | | | | | | | | | |
| | | | | | **COMMENTS** | | FLOW-IN 315-606 CM | | | | | | | | | | | |
| CHN | 100 | 3 | 0028 | 0000 | 26 | 71 320 | 21 18.8'N | 38 58.8'E | 1 | 105.18 | 0021 | 885. | 148. | 0000 | 4 | 3739 | 0 | |
| CHN | 100 | 3 | 0030 | 0000 | 15 | 71 322 | 21 24.0'N | 38 11.4'E | 1 | 105.18 | 0022 | 1172. | 552. | 0000 | 15 | 3338 | 0 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES,GRADED BEDDING AND SEMI-LITHIFIED SEDIMENT | | | | | | | | | | | |
| CHN | 100 | 3 | 0030 | 0000 | 26 | 71 322 | 21 24.0'N | 38 11.4'E | 1 | 105.18 | 0022 | 1172. | 57. | 0000 | 15 | 3329 | 0 | |

**********  STATION DATA RETRIEVAL  **********
**********  DATE: 17:38 JUN 08,'77  **********

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 105 | | | | | | | | | | |
| CHN | 100 | 3 | 0031 | 0000 | 15 | 71 323 | 20 51.0'N | 38 9.1'E | 1 | 105.08 | 0023 | 1827. | 24. | 0000 | 16 | 3357 | 0 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES;GRADED BEDDING;PEBBLES;SHELL FRAGMENTS;SEMI-LITHIFIED | | | | | | | | | | | |
| | | | | | **COMMENTS** | | SEDIMENT | | | | | | | | | | | |
| CHN | 100 | 3 | 0031 | 0000 | 26 | 71 323 | 20 51.0'N | 38 9.1'E | 1 | 105.08 | 0023 | 1827. | 64. | 0000 | 16 | 3359 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 109 | | | | | | | | | | |
| CHN | 82 | 6 | 0021 | 0000 | 15 | 68 728 | 36 9.5'N | 7 16.3'W | 8 | 109.67 | 0001 | 830. | 674. | 0000 | 4 | 4869 | 40 | |
| CHN | 82 | 6 | 0021 | 0000 | 26 | 68 728 | 36 9.5'N | 7 16.3'W | 8 | 109.67 | 0001 | 830. | 77. | 0000 | 4 | 4869 | 40 | |
| | | | | | | | | MARSDEN SQUARE # 110 | | | | | | | | | | |
| CHN | 21 | 1 | 0014 | 0000 | 13 | 61 915 | 33 32.0'N | 18 11.0'W | 1 | 110.38 | 0014 | 3835. | 0. | 0000 | 5 | 0000 | 0 | IN JAR |
| CHN | 21 | 1 | 0015 | 0000 | 13 | 61 916 | 34 .0'N | 15 51.0'W | 1 | 110.45 | 0015 | 3955. | 167. | 0000 | 5 | 3350 | 0 | |
| | | | | | **COMMENTS** | | SOME SED MISSING CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 82 | 6 | 0022 | 0000 | 15 | 68 731 | 35 39.0'N | 13 42.0'W | 5 | 110.53 | 0002 | 4853. | 708. | 0000 | 10 | 3831 | 54 | |
| | | | | | **COMMENTS** | | POSSIBLE FLOW-IN,620-708 CM | | | | | | | | | | | |
| CHN | 82 | 6 | 0022 | 0000 | 26 | 68 731 | 35 39.0'N | 13 42.0'W | 5 | 110.53 | 0002 | 4853. | 60. | 0000 | 10 | 3831 | 54 | |
| | | | | | | | | MARSDEN SQUARE # 111 | | | | | | | | | | |
| 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 | 3599 | 0 | STETSON COR |
| CHN | 96 | 4 | 0008 | 0000 | 26 | 691119 | 30 31.3'N | 20 19.7'W | 9 | 111.00 | 0008 | 4818. | 55. | 0000 | 6 | 3839 | 54 | |
| CHN | 96 | 4 | 0010 | 0000 | 15 | 6912 3 | 32 36.1'N | 21 26.2'W | 9 | 111.21 | 0010 | 5129. | 840. | 0000 | 6 | 3731 | 47 | |
| CHN | 96 | 4 | 0010 | 0000 | 26 | 6912 3 | 32 36.1'N | 21 26.2'W | 9 | 111.21 | 0010 | 5129. | 103. | 0000 | 6 | 4331 | 47 | |
| | | | | | | | | MARSDEN SQUARE # 112 | | | | | | | | | | |
| KNR | 31 | 3 | 0001 | 0000 | 16 | 73 628 | 36 26.8'N | 32 .1'W | 9 | 112.62 | 0001 | 2829. | 1083. | 0000 | 15 | 3324 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 113 | | | | | | | | | | |
| CHN | 96 | 4 | 0006 | 0000 | 15 | 691113 | 30 18.4'N | 42 37.8'W | 9 | 113.02 | 0006 | 3205. | 536. | 0000 | 15 | 3721 | 54 | |
| CHN | 96 | 4 | 0006 | 0000 | 26 | 691113 | 30 18.4'N | 42 37.8'W | 9 | 113.02 | 0006 | 3205. | 82. | 0000 | 15 | 3329 | 54 | |
| CHN | 96 | 5 | 0012 | 0000 | 15 | 6912 9 | 30 15.7'N | 43 18.9'W | 8 | 113.03 | 0012 | 3955. | 517. | 0000 | 19 | 3739 | 54 | |
| CHN | 96 | 5 | 0013 | 0000 | 13 | 6912 9 | 30 4.4'N | 42 28.9'W | 8 | 113.02 | 0013 | 5216. | 59. | 0000 | 19 | 8339 | 54 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 113 | | | | | | | | | | |
| CHN | 96 | 5 | 0014 | 0000 | 13 | 691210 | 30 21.9'N | 44 7.2'W | 8 | 113.04 | 0014 | 4119. | 293. | 0000 | 19 | 3329 | 54 | |
| CHN | 96 | 5 | 0015 | 0000 | 13 | 691210 | 30 29.9'N | 44 50.5'W | 8 | 113.04 | 0015 | 4083. | 286. | 0000 | 19 | 3731 | 54 | |
| CHN | 99 | 2 | 0002 | 0000 | 15 | 70 423 | 30 41.0'N | 46 27.9'W | 8 | 113.06 | 0001 | 4294. | 800. | 0000 | 19 | 3329 | 0 | |
| CHN | 99 | 2 | 0003 | 0000 | 15 | 70 423 | 31 17.7'N | 46 13.1'W | 8 | 113.16 | 0002 | 4358. | 525. | 0000 | 19 | 3329 | 0 | |
| CHN | 99 | 2 | 0004 | 0000 | 15 | 70 424 | 31 13.5'N | 43 43.1'W | 8 | 113.13 | 0003 | 3857. | 673. | 0000 | 19 | 3322 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 114 | | | | | | | | | | |
| AII | 85 | 2 | 0004 | 0000 | 13 | 74 920 | 33 40.7'N | 57 36.6'W | 9 | 114.37 | 0004 | 4530. | 183. | 0000 | 13 | 3322 | 0 | |
| | | | | | | **COMMENTS** | | PRIMARY SED. TYPE IS CALC-SILIC OOZE | | | | | | | | | | |
| AII | 85 | 2 | 0008 | 0000 | 13 | 74 921 | 33 54.1'N | 57 21.7'W | 9 | 114.37 | 0008 | 4630. | 198. | 0000 | 13 | 3148 | 0 | |
| | | | | | | **COMMENTS** | | MN-RICH MOTTLES AND INCLUSIONS | | | | | | | | | | |
| 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 | 2439 | 0 | |
| | | | | | | **COMMENTS** | | FLOW-IN, 2322-2996 CM | | | | | | | | | | |
| KNR | 31 | 3 | 0005 | 0000 | 16 | 73 710 | 33 41.2'N | 57 36.9'W | 9 | 114.37 | 0005 | 4583. | 3191. | 0000 | 13 | 4439 | 0 | |
| KNR | 31 | 3 | 0006 | 0000 | 16 | 73 711 | 33 56.9'N | 57 21.3'W | 9 | 114.37 | 0006 | 4672. | 1404. | 0000 | 13 | 1423 | 0 | |
| KNR | 47 | 1 | 0001 | 0000 | 15 | 75 210 | 33 50.6'N | 57 33.1'W | 9 | 114.37 | 0001 | 4284. | 1155. | 0000 | 13 | 4660 | 0 | |
| | | | | | | **COMMENTS** | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0001 | 0000 | 26 | 75 210 | 33 50.6'N | 57 33.1'W | 9 | 114.37 | 0001 | 4284. | 122. | 0000 | 13 | 3369 | 0 | |
| KNR | 47 | 1 | 0002 | 0000 | 15 | 75 211 | 33 40.8'N | 57 40.3'W | 6 | 114.37 | 0002 | 4619. | 1195. | 0000 | 13 | 4660 | 0 | |
| | | | | | | **COMMENTS** | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0002 | 0000 | 26 | 75 211 | 33 40.8'N | 57 40.3'W | 6 | 114.37 | 0002 | 4619. | 37. | 0000 | 13 | 3339 | 0 | |
| KNR | 47 | 1 | 0004 | 0000 | 15 | 75 215 | 33 54.8'N | 57 23.3'W | 6 | 114.37 | 0004 | 4792. | 776. | 0000 | 13 | 1342 | 0 | |
| | | | | | | **COMMENTS** | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0004 | 0000 | 26 | 75 215 | 33 54.8'N | 57 23.3'W | 6 | 114.37 | 0004 | 4792. | 62. | 0000 | 13 | 3353 | 0 | |
| KNR | 47 | 1 | 0005 | 0000 | 15 | 75 216 | 33 30.6'N | 57 49.4'W | 6 | 114.37 | 0005 | 4618. | 1189. | 0000 | 13 | 4340 | 0 | |
| | | | | | | **COMMENTS** | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0005 | 0000 | 26 | 75 216 | 33 30.6'N | 57 49.4'W | 6 | 114.37 | 0005 | 4618. | 68. | 0000 | 13 | 3359 | 0 | |
| KNR | 47 | 1 | 0033 | 0000 | 13 | 75 216 | 34 10.3'N | 57 11.5'W | 6 | 114.47 | 0006 | 5500. | 160. | 0000 | 13 | 1328 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 115 | | | | | | | | | | |
| AII | 1 | 1 | 0009 | 0000 | 15 | 63 328 | 36 34.5'N | 67 30.5'W | 5 | 115.67 | 0009 | 4979. | 26. | 0000 | 10 | 4459 | 0 | |
| AII | 42 | 1 | 0045 | 0000 | 15 | 68 724 | 30 54.0'N | 63 23.0'W | 1 | 115.03 | 0031 | 5006. | 896. | 0000 | 13 | 3431 | 54 | |
| 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 | 4327 | 53 | |
| | | | | | | **COMMENTS** | | PHYSIOG PROV: SEDIMENT POND | | | | | | | | | | |
| | | | | | | **COMMENTS** | | WINCH FAILURE; FLOW-IN 46-775 CM | | | | | | | | | | |
| 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 | 3353 | 53 | |
| | | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| 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 | 3338 | 53 | |
| | | | | | | **COMMENTS** | | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| | | | | | | **COMMENTS** | | FLOW IN 37-579 CM | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 115 | | | | | | | | | | |
| 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 | 3359 | 53 | |
| | | | | | | | **COMMENTS** | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| 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 | 3349 | 53 | |
| | | | | | | | **COMMENTS** | PSYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| | | | | | | | **COMMENTS** | SEC. SED. TYPE IS NANNO OOZE | | | | | | | | | | |
| 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 | 3439 | 53 | |
| | | | | | | | **COMMENTS** | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| AII | 92 | 1 | 0017 | 0000 | 15 | 75 910 | 30 17.7'N | 66 5.0'W | 9 | 115.06 | 0004 | 4954. | 1004. | 0000 | 13 | 3428 | 53 | |
| | | | | | | | **COMMENTS** | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| AII | 92 | 1 | 0017 | 0000 | 26 | 75 910 | 30 17.7'N | 66 5.0'W | 9 | 115.06 | 0004 | 4954. | 145. | 0000 | 13 | 3328 | 53 | |
| | | | | | | | **COMMENTS** | PHYSIOG. PROV: SEDIMENT POND | | | | | | | | | | |
| ATL | 282 | 1 | 0001 | 0000 | 13 | 62 711 | 30 27.0'N | 65 44.0'W | 5 | 115.05 | 001A | 4945. | 269. | 0000 | 13 | 3869 | 0 | |
| 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 | 2379 | 0 | |
| | | | | | | | **COMMENTS** | 0-100 CM VOID | | | | | | | | | | |
| 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 | 8339 | 41 | |
| 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 | 3839 | 41 | |
| 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 | 4229 | 41 | |
| 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 | 4239 | 41 | |
| ATL | 296 | 0 | 0006 | 0000 | 13 | 63 810 | 39 33.0'N | 66 17.0'W | 5 | 115.93 | 0006 | 4340. | 187. | 0000 | 12 | 1339 | 41 | |
| ATL | 296 | 0 | 0007 | 0000 | 13 | 63 810 | 39 47.0'N | 65 13.5'W | 5 | 115.95 | 0007 | 4481. | 227. | 0000 | 12 | 2839 | 41 | |
| ATL | 296 | 0 | 0008 | 0000 | 13 | 63 811 | 39 26.5'N | 65 9.0'W | 5 | 115.95 | 0008 | 4773. | 112. | 0000 | 12 | 2839 | 41 | |
| ATL | 296 | 0 | 0009 | 0000 | 13 | 63 811 | 39 46.0'N | 66 28.0'W | 5 | 115.96 | 0009 | 3940. | 180. | 0000 | 12 | 2839 | 41 | |
| ATL | 297 | 1 | 6375 | 0000 | 13 | 63 819 | 36 50.5'N | 69 36.0'W | 5 | 115.69 | 0005 | 4396. | 58. | 0000 | 6 | 4459 | 0 | |
| ATL | 297 | 1 | 6377 | 0000 | 13 | 63 819 | 36 47.0'N | 69 53.0'W | 5 | 115.69 | 0006 | 4401. | 60. | 0000 | 6 | 4459 | 0 | |
| ATL | 297 | 1 | 6380 | 0000 | 13 | 63 823 | 37 25.0'N | 69 28.0'W | 5 | 115.79 | 0007 | 4270. | 39. | 0000 | 6 | 3359 | 0 | |
| ATL | 297 | 1 | 6381 | 0000 | 13 | 63 824 | 37 41.0'N | 69 33.5'W | 5 | 115.79 | 0008 | 4110. | 117. | 0000 | 6 | 3359 | 0 | |
| ATL | 297 | 1 | 6381 | 0000 | 13 | 63 824 | 37 41.0'N | 69 33.5'W | 5 | 115.79 | 0008 | 4110. | 117. | 0000 | 6 | 3359 | 0 | |
| CHN | 13 | 1 | 0001 | 0000 | 15 | 60 710 | 34 28.0'N | 62 13.0'W | 5 | 115.42 | 0001 | 4956. | 579. | 0000 | 13 | 3129 | 0 | |
| CHN | 13 | 1 | 0002 | 0000 | 15 | 60 711 | 35 32.0'N | 61 8.0'W | 5 | 115.51 | 0002 | 4821. | 882. | 0000 | 13 | 3332 | 0 | |
| CHN | 19 | 1 | 0001 | 0000 | 15 | 61 618 | 31 50.0'N | 64 45.0'W | 1 | 115.14 | 0001 | 4149. | 415. | 0000 | 13 | 3735 | 0 | |
| CHN | 47 | 1 | 0004 | 0000 | 18 | 65 423 | 34 53.3'N | 66 42.0'W | 5 | 115.46 | 0001 | 5151. | 111. | 0000 | 13 | 3279 | 0 | |
| 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 | 1349 | 0 | |
| CHN | 115 | 1 | 0001 | 0000 | 15 | 731121 | 39 20.3'N | 67 7.7'W | 6 | 115.97 | 0001 | 2472. | 461. | 0000 | 12 | 4224 | 0 | |
| | | | | | | | **COMMENTS** | ICE RAFTED ERRATICS AND CALC NODULES SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 1 | 0001 | 0000 | 26 | 731121 | 39 20.3'N | 67 7.7'W | 6 | 115.97 | 0001 | 2472. | 138. | 0000 | 12 | 4430 | 0 | |
| CHN | 115 | 1 | 0002 | 0000 | 15 | 731121 | 39 20.6'N | 67 8.0'W | 6 | 115.97 | 0002 | 2415. | 785. | 0000 | 12 | 2334 | 0 | |
| | | | | | | | **COMMENTS** | ICE RAFTED ERRATICS SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 1 | 0002 | 0000 | 26 | 731121 | 39 20.6'N | 67 8.0'W | 6 | 115.97 | 0002 | 2415. | 88. | 0000 | 12 | 4334 | 0 | |
| | | | | | | | **COMMENTS** | ICE RAFTED PEBBLES AND LITH. CLAY LUMPS SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 1 | 0003 | 0000 | 15 | 731121 | 39 20.1'N | 67 7.9'W | 6 | 115.97 | 0003 | 2518. | 645. | 0000 | 12 | 4864 | 47 | |
| | | | | | | | **COMMENTS** | ICE RAFTED DEBRIS FOUND SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 1 | 0003 | 0000 | 26 | 731121 | 39 20.1'N | 67 7.9'W | 6 | 115.97 | 0003 | 2518. | 131. | 0000 | 12 | 4844 | 47 | |
| CHN | 115 | 1 | 0004 | 0000 | 15 | 731121 | 39 20.1'N | 67 8.1'W | 6 | 115.97 | 0004 | 2536. | 213. | 0000 | 12 | 4844 | 0 | |
| | | | | | | | **COMMENTS** | 14 CM MN PAVEMENT RECOVERED AT BOTTOM OF CORE | | | | | | | | | | |
| CHN | 115 | 1 | 0004 | 0000 | 26 | 731121 | 39 20.1'N | 67 8.1'W | 6 | 115.97 | 0004 | 2536. | 137. | 0000 | 12 | 1234 | 0 | |
| | | | | | | | **COMMENTS** | ICE RAFTED DEBRIS COMMON THROUGHOUT | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 115 | | | | | | | | | | |
| GOS | 102 | 0 | 0001 | 0000 | 15 | 67 822 | 39 35.0'N | 68 46.5'W | 5 | 115.98 | 0001 | 2562. | 272. | 0029 | 6 | 0000 | 0 | |
| GOS | 102 | 0 | 0002 | 0000 | 15 | 67 822 | 39 53.3'N | 68 51.8'W | 5 | 115.98 | 0002 | 1951. | 525. | 0011 | 6 | 0000 | 0 | |
| GOS | 137 | 0 | 2755 | 0000 | 13 | 681018 | 39 51.5'N | 69 9.8'W | 5 | 115.99 | 0001 | 1501. | 236. | 0000 | 6 | 0000 | 0 | |
| GOS | 137 | 0 | 2756 | 0000 | 13 | 681018 | 39 51.5'N | 69 9.8'W | 5 | 115.99 | 0002 | 1473. | 187. | 0000 | 6 | 0000 | 0 | |
| 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 | 0259 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 2028 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC.SILIC OOZE;SPEC FEATURES:PEBBLES AND SEMI LITHIFIED SED | | | | | | | | | | | |
| 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 | 2464 | 0 | |
| 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 | 4814 | 0 | |
| 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 | 4343 | 0 | 6 HITS |
| | | | | | | | | MARSDEN SQUARE # 116 | | | | | | | | | | |
| AII | 1 | 1 | 0001 | 0000 | 15 | 63 225 | 32 2.0'N | 74 9.0'W | 5 | 116.24 | 0001 | 4870. | 222. | 0000 | 10 | 4250 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| AII | 1 | 1 | 0002 | 0000 | 15 | 63 225 | 31 15.0'N | 73 58.0'W | 5 | 116.13 | 0002 | 5070. | 211. | 0000 | 10 | 4250 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| AII | 1 | 1 | 0003 | 0000 | 15 | 63 226 | 30 56.0'N | 74 36.0'W | 5 | 116.04 | 0003 | 3539. | 177. | 0000 | 10 | 4450 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| 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 | 3860 | 0 | |
| AII | 72 | 1 | 0002 | 0000 | 15 | 721021 | 39 58.5'N | 70 34.5'W | 5 | 116.90 | 0002 | 298. | 345. | 0000 | 4 | 2848 | 40 | |
| AII | 72 | 1 | 0003 | 0000 | 15 | 721021 | 39 49.9'N | 70 34.3'W | 9 | 116.90 | 0003 | 856. | 824. | 0000 | 4 | 2849 | 0 | |
| AII | 72 | 1 | 0003 | 0000 | 26 | 721021 | 39 49.9'N | 70 34.3'W | 9 | 116.90 | 0003 | 856. | 99. | 0000 | 4 | 2849 | 0 | |
| AII | 72 | 1 | 0004 | 0000 | 15 | 721021 | 39 43.6'N | 70 32.7'W | 9 | 116.90 | 0004 | 1937. | 637. | 0000 | 4 | 2430 | 0 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES.HYDROTROILITE MOTTLES, LITHIFIED DEBRIS | | | | | | | | | | | |
| AII | 72 | 1 | 0004 | 0000 | 26 | 721021 | 39 43.6'N | 70 32.7'W | 9 | 116.90 | 0004 | 1937. | 20. | 0000 | 4 | 3869 | 0 | |
| AII | 72 | 1 | 0005 | 0000 | 15 | 721021 | 39 39.8'N | 70 33.6'W | 5 | 116.90 | 0005 | 2105. | 710. | 0000 | 4 | 2239 | 0 | |
| AII | 72 | 1 | 0005 | 0000 | 26 | 721021 | 39 39.8'N | 70 33.6'W | 5 | 116.90 | 0005 | 2105. | 16. | 0000 | 4 | 3869 | 0 | |
| AII | 72 | 1 | 0007 | 0000 | 15 | 721021 | 39 40.6'N | 71 .3'W | 9 | 116.91 | 0006 | 2008. | 612. | 0000 | 4 | 4239 | 40 | |
| AII | 72 | 1 | 0007 | 0000 | 26 | 721021 | 39 40.6'N | 71 .3'W | 9 | 116.91 | 0006 | 2008. | 90. | 0000 | 4 | 3869 | 40 | |
| AII | 72 | 1 | 0008 | 0000 | 15 | 721022 | 39 49.5'N | 70 59.8'W | 9 | 116.90 | 0007 | 1002. | 235. | 0000 | 4 | 3439 | 40 | |
| | | | | | **COMMENTS** | | 0-40 DISTURBED | | | | | | | | | | | |
| AII | 72 | 1 | 0008 | 0000 | 26 | 721022 | 39 49.5'N | 70 59.8'W | 9 | 116.90 | 0007 | 1002. | 49. | 0000 | 4 | 3429 | 40 | |
| AII | 72 | 1 | 0009 | 0000 | 15 | 721022 | 39 37.6'N | 70 59.7'W | 9 | 116.90 | 0008 | 397. | 693. | 0000 | 4 | 2225 | 40 | |
| AII | 72 | 1 | 0009 | 0000 | 26 | 721022 | 39 37.6'N | 70 59.7'W | 9 | 116.90 | 0008 | 397. | 139. | 0000 | 4 | 2225 | 40 | |
| AII | 72 | 1 | 0013 | 0000 | 15 | 721023 | 39 55.5'N | 70 43.3'W | 9 | 116.90 | 0011 | 667. | 482. | 0000 | 4 | 2838 | 40 | |
| AII | 72 | 1 | 0013 | 0000 | 26 | 721023 | 39 55.5'N | 70 43.3'W | 9 | 116.90 | 0011 | 667. | 103. | 0000 | 4 | 2439 | 40 | |
| AII | 72 | 1 | 0014 | 0000 | 15 | 721023 | 39 48.9'N | 70 43.5'W | 5 | 116.90 | 0012 | 1249. | 320. | 0000 | 4 | 2259 | 40 | |
| AII | 72 | 1 | 0014 | 0000 | 26 | 721023 | 39 48.9'N | 70 43.5'W | 5 | 116.90 | 0012 | 1249. | 124. | 0000 | 4 | 2255 | 40 | |
| AII | 72 | 1 | 0015 | 0000 | 15 | 721023 | 39 41.0'N | 70 45.7'W | 5 | 116.90 | 0013 | 2218. | 467. | 0000 | 4 | 2329 | 40 | |
| AII | 72 | 1 | 0015 | 0000 | 26 | 721023 | 39 41.0'N | 70 45.7'W | 5 | 116.90 | 0013 | 2218. | 35. | 0000 | 4 | 3869 | 40 | |
| AII | 72 | 1 | 0016 | 0000 | 15 | 721026 | 39 28.1'N | 70 45.6'W | 9 | 116.90 | 0014 | 2478. | 776. | 0000 | 4 | 2339 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,52I-776 CM | | | | | | | | | | | |

STATION DATA RETRIEVAL
DATE: 17:38 JUN 08,'77

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 116 | | | | | | | | | | | |
| AII | 72 | 1 | 0016 | 0000 | 26 | 721026 | 39 28.1'N | 70 45.6'W | 9 | 116.90 | 0014 | 2478. | 99. | 0000 | 4 | 3869 | 0 | |
| AII | 72 | 1 | 0017 | 0000 | 15 | 721026 | 39 43.5'N | 70 47.1'W | 9 | 116.90 | 0015 | 1331. | 565. | 0000 | 4 | 2325 | 40 | |
| AII | 72 | 1 | 0019 | 0000 | 15 | 721028 | 32 32.0'N | 73 29.8'W | 9 | 116.23 | 0016 | 5058. | 850. | 0000 | 4 | 4231 | 40 | |
| AII | 72 | 1 | 0019 | 0000 | 26 | 721028 | 32 32.0'N | 73 29.8'W | 9 | 116.23 | 0016 | 5058. | 96. | 0000 | 4 | 2331 | 40 | |
| AII | 72 | 1 | 0020 | 0000 | 15 | 721028 | 32 51.7'N | 73 58.8'W | 9 | 116.23 | 0017 | 4808. | 657. | 0000 | 4 | 4839 | 40 | |
| | | | | | **COMMENTS** | | FLOW-IN, 460-657 CM | | | | | | | | | | | |
| AII | 72 | 1 | 0021 | 0000 | 15 | 721029 | 34 10.5'N | 75 51.6'W | 9 | 116.45 | 0018 | 481. | 812. | 0000 | 4 | 3855 | 40 | |
| AII | 72 | 1 | 0021 | 0000 | 26 | 721029 | 34 10.5'N | 75 51.6'W | 9 | 116.45 | 0018 | 481. | 10. | 0000 | 4 | 3865 | 40 | |
| AII | 72 | 1 | 0022 | 0000 | 15 | 721029 | 34 13.0'N | 75 42.0'W | 9 | 116.45 | 0019 | 1331. | 38. | 0000 | 4 | 3865 | 40 | |
| AII | 72 | 1 | 0022 | 0000 | 26 | 721029 | 34 13.0'N | 75 42.0'W | 9 | 116.45 | 0019 | 1331. | 10. | 0000 | 4 | 3567 | 40 | |
| | | | | | **COMMENTS** | | ENTIRE SAMPLE STORED IN ONE JAR | | | | | | | | | | | |
| AII | 72 | 1 | 0023 | 0000 | 15 | 721029 | 34 2.2'N | 75 39.3'W | 5 | 116.45 | 0020 | 2189. | 832. | 0000 | 4 | 4329 | 40 | |
| AII | 72 | 1 | 0023 | 0000 | 26 | 721029 | 34 2.2'N | 75 39.3'W | 5 | 116.45 | 0020 | 2189. | 115. | 0000 | 4 | 3355 | 40 | |
| AII | 72 | 1 | 0024 | 0000 | 15 | 721029 | 34 3.2'N | 75 40.0'W | 5 | 116.45 | 0021 | 2202. | 198. | 0000 | 4 | 4324 | 40 | |
| AII | 72 | 1 | 0025 | 0000 | 13 | 721030 | 34 1.0'N | 75 37.0'W | 5 | 116.45 | 0022 | 2942. | 124. | 0000 | 4 | 0025 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE--CALC SILIC OOZE | | | | | | | | | | | |
| AII | 72 | 1 | 0026 | 0000 | 15 | 721030 | 33 49.5'N | 75 18.0'W | 5 | 116.35 | 0023 | 3204. | 863. | 0000 | 6 | 0325 | 40 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 72 | 1 | 0026 | 0000 | 26 | 721030 | 33 49.5'N | 75 18.0'W | 5 | 116.35 | 0023 | 3204. | 118. | 0000 | 6 | 3349 | 40 | |
| AII | 72 | 1 | 0027 | 0000 | 15 | 721031 | 33 26.9'N | 74 53.5'W | 9 | 116.34 | 0024 | 3824. | 787. | 0000 | 6 | 3221 | 40 | |
| AII | 72 | 1 | 0027 | 0000 | 26 | 721031 | 33 26.9'N | 74 53.5'W | 9 | 116.34 | 0024 | 3824. | 52. | 0000 | 6 | 3869 | 40 | |
| AII | 72 | 1 | 0029 | 0000 | 14 | 721031 | 33 7.3'N | 74 27.8'W | 5 | 116.34 | 0025 | 4307. | 161. | 0000 | 6 | 4459 | 40 | |
| AII | 72 | 1 | 0030 | A000 | 18 | 7211 3 | 34 13.8'N | 71 54.5'W | 5 | 116.41 | 026A | 4734. | 99. | 0000 | 6 | 3329 | 0 | |
| AII | 72 | 1 | 0030 | B000 | 18 | 7211 3 | 34 14.5'N | 71 54.0'W | 5 | 116.41 | 026B | 4730. | 53. | 0000 | 6 | 3329 | 0 | |
| AII | 72 | 1 | 0030 | C000 | 18 | 7211 3 | 34 16.0'N | 71 53.8'W | 5 | 116.41 | 026C | 4697. | 62. | 0000 | 6 | 4329 | 0 | |
| AII | 72 | 1 | 0031 | 0000 | 14 | 7211 4 | 34 15.0'N | 71 51.5'W | 5 | 116.41 | 0027 | 4717. | 96. | 0000 | 6 | 4449 | 40 | |
| ALB | 18 | 4 | 0007 | 3056 | 13 | 681211 | 39 55.3'N | 71 5.5'W | 5 | 116.91 | 0007 | 556. | 202. | 0000 | 4 | 0000 | 0 | |
| ALB | 18 | 4 | 0008 | 3057 | 13 | 681211 | 39 54.8'N | 70 48.0'W | 5 | 116.90 | 0008 | 552. | 161. | 0000 | 4 | 0000 | 0 | |
| ALB | 18 | 4 | 0009 | 3058 | 13 | 681211 | 39 56.5'N | 70 50.0'W | 5 | 116.90 | 0009 | 595. | 164. | 0000 | 4 | 0000 | 0 | |
| ALB | 18 | 4 | 0010 | 3059 | 13 | 681211 | 39 59.5'N | 70 51.0'W | 5 | 116.90 | 0010 | 260. | 170. | 0000 | 4 | 0000 | 0 | |
| ATL | 223 | 1 | 0004 | 0000 | 13 | 56 528 | 31 26.1'N | 76 26.6'W | 5 | 116.66 | 0004 | 0. | 0. | 340G | 7 | 0000 | 0 | |
| ATL | 297 | 1 | 6369 | 0000 | 13 | 63 818 | 36 40.0'N | 70 11.0'W | 5 | 116.60 | 0001 | 4418. | 111. | 0000 | 6 | 3839 | 0 | |
| ATL | 297 | 1 | 6371 | 0000 | 13 | 63 818 | 37 10.0'N | 70 25.0'W | 5 | 116.70 | 0002 | 4261. | 40. | 0000 | 6 | 4459 | 0 | |
| ATL | 297 | 1 | 6372 | 0000 | 13 | 63 818 | 37 15.5'N | 70 7.0'W | 5 | 116.70 | 0003 | 4243. | 21. | 0000 | 6 | 3359 | 0 | |
| CHN | 11 | 1 | 0013 | 0000 | 15 | 60 320 | 33 .0'N | 72 15.0'W | 4 | 116.32 | 0013 | 5302. | 610. | 0000 | 10 | 3831 | 0 | |
| | | | | | **COMMENTS** | | 89-107: VOID | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 141 | | | | | | | | | | | |
| AII | 15 | 3 | 0522 | 0000 | 13 | 65 214 | 30 20.0'N | 32 25.0'E | 0 | 141.02 | OBL1 | 10. | 100. | 0000 | 99 | 4470 | 0 | |
| | | | | | **COMMENTS** | | GREAT BITTER LAKE APPROXIMATE POSITION | | | | | | | | | | | |
| AII | 15 | 3 | 0522 | 0000 | 13 | 65 214 | 30 20.0'N | 32 25.0'E | 0 | 141.02 | OBL2 | 10. | 0. | 0000 | 99 | 4470 | 0 | |
| | | | | | **COMMENTS** | | GREAT BITTER LAKE APPROXIMATE POSITION | | | | | | | | | | | |
| AII | 15 | 3 | 0522 | 0000 | 13 | 65 214 | 30 20.0'N | 32 25.0'E | 0 | 141.02 | OBL3 | 10. | 115. | 0000 | 99 | 4470 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | | GREAT BITTER LAKE | | | | APPROXIMATE POSITION | | | | | | |
| CHN | 61 | 4 | 0054 | 0000 | 15 | 66 921 | 35 20.1'N | 30 7.0'E | 6 | 141.50 | 0000 | 2013. | 187. | 0000 | 21 | 3349 | 41 | |
| | | | | | **COMMENTS** | | | DISTURBED,154-197 CM | | | | | | | | | | |
| CHN | 61 | 4 | 0054 | 0000 | 26 | 66 921 | 35 20.1'N | 30 7.0'E | 6 | 141.50 | 0000 | 2013. | 54. | 0000 | 21 | 3349 | 41 | |
| CHN | 61 | 4 | 0055 | 0000 | 15 | 66 922 | 34 49.2'N | 31 4.4'E | 6 | 141.41 | 0000 | 2468. | 510. | 0000 | 21 | 3936 | 41 | |
| CHN | 61 | 4 | 0055 | 0000 | 26 | 66 922 | 34 49.2'N | 31 4.4'E | 6 | 141.41 | 0000 | 2468. | 119. | 0000 | 21 | 3426 | 41 | |
| CHN | 61 | 4 | 0056 | 0000 | 15 | 66 923 | 32 59.8'N | 31 5.9'E | 6 | 141.21 | 0000 | 2140. | 589. | 0000 | 21 | 3549 | 41 | |
| CHN | 61 | 4 | 0056 | 0000 | 26 | 66 923 | 32 59.8'N | 31 5.9'E | 6 | 141.21 | 0000 | 2140. | 117. | 0000 | 21 | 3342 | 41 | |
| CHN | 61 | 4 | 0057 | 0000 | 15 | 66 924 | 33 11.1'N | 32 29.5'E | 6 | 141.32 | 0000 | 1928. | 620. | 0000 | 21 | 3969 | 41 | |
| CHN | 61 | 4 | 0057 | 0000 | 26 | 66 924 | 33 11.1'N | 32 29.5'E | 6 | 141.32 | 0000 | 1928. | 47. | 0000 | 21 | 4339 | 41 | |
| CHN | 61 | 4 | 0058 | 0000 | 15 | 66 925 | 33 30.4'N | 32 46.2'E | 6 | 141.32 | 0000 | 835. | 553. | 0000 | 21 | 3339 | 41 | |
| CHN | 61 | 4 | 0058 | 0000 | 26 | 66 925 | 33 30.4'N | 32 46.2'E | 6 | 141.32 | 0000 | 835. | 36. | 0000 | 21 | 3930 | 41 | |
| CHN | 61 | 4 | 0059 | 0000 | 15 | 66 926 | 33 52.1'N | 33 17.2'E | 6 | 141.33 | 0000 | 2328. | 593. | 0000 | 21 | 3426 | 41 | |
| CHN | 61 | 4 | 0059 | 0000 | 26 | 66 926 | 33 52.1'N | 33 17.2'E | 6 | 141.33 | 0000 | 2328. | 136. | 0000 | 21 | 3426 | 41 | |
| CHN | 61 | 4 | 0062 | 0000 | 15 | 66 928 | 36 1.5'N | 31 46.5'E | 6 | 141.61 | 0000 | 2506. | 297. | 0000 | 21 | 3329 | 41 | |
| | | | | | **COMMENTS** | | | VOID,145-159 CM | | | | | | | | | | |
| CHN | 61 | 4 | 0062 | 0000 | 26 | 66 928 | 36 1.5'N | 31 46.5'E | 6 | 141.61 | 0000 | 2506. | 45. | 0000 | 21 | 3339 | 41 | |
| CHN | 61 | 4 | 0063 | 0000 | 15 | 66 928 | 35 42.0'N | 32 58.8'E | 6 | 141.52 | 0000 | 1250. | 610. | 0000 | 21 | 3379 | 41 | |
| | | | | | **COMMENTS** | | | POSSIBLE FLOW-IN,37-610 CM | | | | | | | | | | |
| CHN | 61 | 4 | 0063 | 0000 | 26 | 66 928 | 35 42.0'N | 32 58.8'E | 6 | 141.52 | 0000 | 1250. | 110. | 0000 | 21 | 3329 | 41 | |
| CHN | 61 | 4 | 0064 | 0000 | 15 | 66 930 | 35 56.0'N | 34 15.0'E | 6 | 141.54 | 0000 | 959. | 495. | 0000 | 21 | 3861 | 41 | |
| CHN | 61 | 4 | 0064 | 0000 | 26 | 66 930 | 35 56.0'N | 34 15.0'E | 6 | 141.54 | 0000 | 959. | 50. | 0000 | 21 | 3349 | 41 | |
| CHN | 61 | 4 | 0065 | 0000 | 15 | 6610 1 | 35 33.2'N | 35 26.8'E | 6 | 141.55 | 0000 | 1398. | 645. | 0000 | 21 | 3931 | 41 | |
| CHN | 61 | 4 | 0065 | 0000 | 26 | 6610 1 | 35 33.2'N | 35 26.8'E | 6 | 141.55 | 0000 | 1398. | 34. | 0000 | 21 | 4429 | 41 | |
| CHN | 61 | 4 | 0066 | 0000 | 15 | 6610 2 | 34 20.5'N | 34 41.0'E | 6 | 141.44 | 0000 | 2010. | 594. | 0000 | 21 | 3329 | 41 | |
| CHN | 61 | 4 | 0066 | 0000 | 26 | 6610 2 | 34 20.5'N | 34 41.0'E | 6 | 141.44 | 0000 | 2010. | 40. | 0000 | 21 | 3379 | 41 | |
| CHN | 61 | 4 | 0067 | 0000 | 15 | 6610 3 | 34 10.0'N | 33 36.0'E | 6 | 141.43 | 0000 | 2188. | 600. | 0000 | 21 | 4332 | 41 | |
| CHN | 61 | 4 | 0067 | 0000 | 26 | 6610 3 | 34 10.0'N | 33 36.0'E | 6 | 141.43 | 0000 | 2188. | 119. | 0000 | 21 | 4332 | 41 | |
| CHN | 61 | 4 | 0068 | 0000 | 15 | 6610 4 | 34 52.7'N | 34 52.8'E | 6 | 141.44 | 0000 | 1618. | 819. | 0000 | 21 | 3450 | 41 | |
| CHN | 61 | 4 | 0068 | 0000 | 26 | 6610 4 | 34 52.7'N | 34 52.8'E | 6 | 141.44 | 0000 | 1618. | 104. | 0000 | 21 | 3932 | 41 | |
| CHN | 119 | 2 | 0036 | 0000 | 13 | 75 328 | 31 30.9'N | 30 18.8'E | 3 | 141.10 | 0002 | 6. | 60. | 0000 | 24 | 6431 | 0 | |
| | | | | | **COMMENTS** | | | DETRITUS IS COMMON THROUGHOUT CORE | | | | | | | | | | |
| CHN | 119 | 2 | 0055 | 0000 | 13 | 75 328 | 31 32.6'N | 30 15.5'E | 3 | 141.10 | 0003 | 11. | 86. | 0000 | 24 | 2259 | 0 | |
| CHN | 119 | 2 | 0061 | 0000 | 15 | 75 329 | 31 40.8'N | 30 1.4'E | 9 | 141.10 | 0010 | 431. | 615. | 0000 | 25 | 4219 | 0 | |
| | | | | | **COMMENTS** | | | FLOW IN 60-615 CM | | | | | | | | | | |
| CHN | 119 | 2 | 0061 | 0000 | 26 | 75 329 | 31 40.8'N | 30 1.4'E | 9 | 141.10 | 0010 | 431. | 120. | 0000 | 25 | 4212 | 0 | |
| CHN | 119 | 2 | 0074 | 0000 | 15 | 75 331 | 33 14.8'N | 30 19.9'E | 9 | 141.30 | 0016 | 2523. | 1012. | 0000 | 24 | 3428 | 0 | |
| CHN | 119 | 2 | 0074 | 0000 | 26 | 75 331 | 33 14.8'N | 30 19.9'E | 9 | 141.30 | 0016 | 2523. | 119. | 0000 | 24 | 3333 | 0 | |
| CHN | 119 | 2 | 0076 | 0000 | 15 | 75 331 | 33 42.8'N | 30 40.9'E | 9 | 141.30 | 0017 | 2595. | 895. | 0000 | 24 | 3416 | 0 | ISIS RIDGE |
| CHN | 119 | 2 | 0076 | 0000 | 26 | 75 331 | 33 42.8'N | 30 40.9'E | 9 | 141.30 | 0017 | 2595. | 106. | 0000 | 24 | 3939 | 0 | ISIS RIDGE |
| 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 | 3438 | 0 | |
| 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 | 3938 | 0 | |
| 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 | 3438 | 0 | ISIS RIDGE |
| 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 | 3938 | 0 | ISIS RIDGE |
| 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 | 3238 | 0 | ISIS RIDGE |
| 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 | 3338 | 0 | ISIS RIDGE |

STATION DATA RETRIEVAL
DATE: 17:38 JUN 08,'77

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 141 | | | | | | | | | | | |
| CHN | 119 | 2 | 0083 | 0000 | 15 | 75 4 1 | 30 34.9'N | 31 16.3'E | 9 | 141.21 | 0021 | 1529. | 911. | 0000 | 24 | 3818 | 0 | |
| CHN | 119 | 2 | 0083 | 0000 | 26 | 75 4 1 | 30 34.9'N | 31 16.3'E | 9 | 141.21 | 0021 | 1529. | 66. | 0000 | 24 | 3338 | 0 | |
| 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 | 2465 | 0 | |
| | | | | | **COMMENTS** | | SHELL HASH 36-50 CM | | | | | | | | | | | |
| 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 | 2469 | 0 | |
| 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 | 3442 | 0 | ISIS RIDGE |
| 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 | 3432 | 0 | ISIS RIDGE |
| 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 | 3348 | 0 | ISIS RIDGE |
| 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 | 3338 | 0 | ISIS RIDGE |
| 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 | 4838 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | | |
| 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 | 4833 | 0 | |
| 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 | 3338 | 0 | |
| 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 | 3933 | 0 | |
| 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 | 3343 | 0 | |
| 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 | 3322 | 0 | |
| 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 | 3332 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | | |
| 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 | 3332 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | | |
| 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 | 3338 | 0 | |
| | | | | | **COMMENTS** | | CALC-SILIC OOZE 307-334 | | | | | | | | | | | |
| 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 | 3328 | 0 | |
| 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 | 4338 | 0 | |
| 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 | 4339 | 0 | |
| 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 | 3738 | 0 | |
| | | | | | **COMMENTS** | | WASHED AND UNSTRATIFIED, 0-88 AND 693-1294 | | | | | | | | | | | |
| 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 | 3731 | 0 | |
| 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 | 3819 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | | |
| 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 | 3819 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | | |
| 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 | 3818 | 0 | |
| | | | | | **COMMENTS** | | CALC-SILIC OOZE 416-463 CM | | | | | | | | | | | |
| 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 | 3332 | 0 | |
| 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 | 3432 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED TYPE IS HIGHLY CALC CLAY | | | | | | | | | | | |
| 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 | 3338 | 0 | |
| 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 | 3338 | 0 | ISIS RIDGE |
| | | | | | **COMMENTS** | | VOLCANIC ASH 503-505 CM | | | | | | | | | | | |
| 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 | 3348 | 0 | ISIS RIDGE |
| 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 | 4268 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SED. TYPE IS HIGHLY CALC CLAY | | | | | | | | | | | |
| 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 | 3323 | 0 | |
| 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 | 4465 | 0 | |
| 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 | 4269 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 141 | | | | | | | | | | |
| 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 | 4265 | 0 | |
| | | | | | **COMMENTS** | | | SHELL HASH; 97-103 CM | | | | | | | | | | |
| 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 | 4439 | 0 | |
| 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 | 3465 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARILY SHELL HASH | | | | | | | | | | |
| CHN | 119 | 2 | 0183 | 0000 | 20 | 75 410 | 32 8.2'N | 30 58.0'E | 9 | 141.20 | 0003 | 508. | 253. | 0000 | 24 | 4332 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED.TYPE INCLUDES DETRITUS | | | | | | | | | | |
| CHN | 119 | 2 | 0185 | 0000 | 20 | 75 410 | 31 36.9'N | 30 16.6'E | 3 | 141.10 | 0004 | 21. | 267. | 0000 | 24 | 2819 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 142 | | | | | | | | | | |
| CHN | 7 | 3 | 0002 | 0000 | 13 | 59 531 | 36 37.0'N | 21 10.0'E | 4 | 142.61 | 0002 | 4976. | 151. | 0000 | 21 | 3350 | 0 | STETSON CDR |
| 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 | 3330 | 0 | STETSON CDR |
| 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 | 3350 | 0 | STETSON CDR |
| 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 | 3350 | 0 | STETSON CDR |
| 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 | 3330 | 0 | STETSON CDR |
| CHN | 61 | 3 | 0035 | 0000 | 15 | 66 827 | 36 25.8'N | 25 23.3'E | 6 | 142.65 | 0000 | 379. | 300. | 0000 | 21 | 9864 | 41 | |
| | | | | | **COMMENTS** | | | PHYSIOG. PROVINCE: THIRA CALDERA | | | | | | | | | | |
| CHN | 61 | 3 | 0037 | 0000 | 15 | 66 828 | 35 47.1'N | 25 15.0'E | 1 | 142.55 | 0000 | 1864. | 1024. | 0000 | 21 | 4969 | 41 | AEGEAN SEA |
| | | | | | **COMMENTS** | | | FLOW-IN,400-1024 CM | | | | | | | | | | |
| CHN | 61 | 3 | 0039 | 0000 | 15 | 66 830 | 34 20.2'N | 22 29.7'E | 6 | 142.42 | 0000 | 2586. | 267. | 0000 | 21 | 3329 | 41 | |
| CHN | 61 | 3 | 0040 | 0000 | 15 | 66 831 | 33 17.2'N | 23 9.7'E | 6 | 142.33 | 0000 | 2472. | 613. | 0000 | 21 | 3818 | 41 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES;GRADED BEDDING,VOLC ASH AND PYRITE,FLOW-IN,446-613 CM | | | | | | | | | | |
| 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 | 3279 | 41 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION;FLOW-IN,167-742 CM | | | | | | | | | | |
| CHN | 61 | 3 | 0042 | 0000 | 15 | 66 9 3 | 34 14.5'N | 25 1.0'E | 6 | 142.10 | 0000 | 3546. | 558. | 0000 | 21 | 3866 | 41 | |
| 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 | 3349 | 41 | |
| | | | | | **COMMENTS** | | | VOID,0-80 CM; FLOW -IN, 314-435 CM | | | | | | | | | | |
| | | | | | **COMMENTS** | | | IN LOW HILLS ON SOUTH FLANK OF MID. MED. RIDGE NEAR HERODOTUS ABYSSAL PLAIN | | | | | | | | | | |
| 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 | 4495 | 41 | |
| 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 | 3036 | 41 | |
| | | | | | **COMMENTS** | | | SEC SED TYPE;SILIC-CALC OOZE; PHYS PROV, W WALL RHODIAN BASIN S OF RHODES | | | | | | | | | | |
| CHN | 61 | 3 | 0050 | 0000 | 15 | 66 912 | 35 30.9'N | 28 11.8'E | 6 | 142.58 | 0000 | 2483. | 416. | 0000 | 21 | 3969 | 41 | |
| CHN | 61 | 4 | 0051 | 0000 | 15 | 66 917 | 36 25.9'N | 28 47.0'E | 6 | 142.68 | 0000 | 2513. | 631. | 0000 | 21 | 3429 | 41 | |
| | | | | | **COMMENTS** | | | POSSIBLE FLOW-IN,225-631 CM | | | | | | | | | | |
| CHN | 61 | 4 | 0051 | 0000 | 26 | 66 917 | 36 25.9'N | 28 47.0'E | 6 | 142.68 | 0000 | 2513. | 83. | 0000 | 21 | 3969 | 41 | |
| CHN | 61 | 4 | 0052 | 0000 | 15 | 66 918 | 35 5.9'N | 28 36.5'E | 6 | 142.58 | 0000 | 2848. | 618. | 0000 | 21 | 3359 | 41 | |
| | | | | | **COMMENTS** | | | ENTIRE CORE IS FLOW-IN | | | | | | | | | | |
| CHN | 61 | 4 | 0053 | 0000 | 15 | 66 919 | 34 9.0'N | 28 51.8'E | 6 | 142.48 | 0000 | 2518. | 648. | 0000 | 21 | 3969 | 41 | |
| CHN | 61 | 4 | 0053 | 0000 | 26 | 66 919 | 34 9.0'N | 28 51.8'E | 6 | 142.48 | 0000 | 2518. | 101. | 0000 | 21 | 3969 | 41 | |
| CHN | 119 | 2 | 0010 | 0000 | 15 | 75 323 | 31 11.1'N | 29 16.7'E | 9 | 142.19 | 0001 | 552. | 674. | 0000 | 2 | 4339 | 0 | |
| | | | | | **COMMENTS** | | | FLOW IN; 277-674CM | | | | | | | | | | |
| CHN | 119 | 2 | 0011 | 0000 | 15 | 75 323 | 31 39.2'N | 28 49.2'E | 9 | 142.18 | 0002 | 1827. | 821. | 0000 | 4 | 3869 | 0 | |
| | | | | | **COMMENTS** | | | FLOW IN: 17-821CM | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 142 | | | | | | | | | | |
| CHN | 119 | 2 | 0013 | 0000 | 15 | 75 324 | 32 7.8'N | 28 24.7'E | 9 | 142.28 | 0003 | 2778. | 573. | 0000 | 6 | 3839 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | | |
| CHN | 119 | 2 | 0013 | 0000 | 26 | 75 324 | 32 7.8'N | 28 24.7'E | 9 | 142.28 | 0003 | 2778. | 141. | 0000 | 6 | 3338 | 0 | |
| | | | | | **COMMENTS** | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | | |
| CHN | 119 | 2 | 0015 | 0000 | 15 | 75 324 | 32 47.1'N | 27 48.4'E | 1 | 142.27 | 0004 | 3130. | 532. | 0000 | 10 | 3739 | 0 | |
| | | | | | **COMMENTS** | | ENTIRE CORE IS SUSPECT - FLOW IN 56-532 CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0015 | 0000 | 26 | 75 324 | 32 47.1'N | 27 48.4'E | 1 | 142.27 | 0004 | 3130. | 106. | 0000 | 10 | 3938 | 0 | |
| CHN | 119 | 2 | 0017 | 0000 | 15 | 75 325 | 33 10.7'N | 27 5.2'E | 9 | 142.37 | 0005 | 2698. | 373. | 0000 | 13 | 3349 | 0 | |
| | | | | | **COMMENTS** | | ENTIRE CORE HAS DISTURBED APPEARANCE | | | | | | | | | | | |
| CHN | 119 | 2 | 0017 | 0000 | 26 | 75 325 | 33 10.7'N | 27 5.2'E | 9 | 142.37 | 0005 | 2698. | 82. | 0000 | 13 | 3329 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | | |
| CHN | 119 | 2 | 0022 | 0000 | 15 | 75 325 | 33 15.8'N | 26 .9'E | 9 | 142.36 | 0006 | 2372. | 697. | 0000 | 13 | 3938 | 0 | |
| CHN | 119 | 2 | 0022 | 0000 | 26 | 75 325 | 33 15.8'N | 26 .9'E | 9 | 142.36 | 0006 | 2372. | 124. | 0000 | 13 | 3932 | 0 | |
| CHN | 119 | 2 | 0025 | 0000 | 15 | 75 326 | 32 20.3'N | 26 56.7'E | 1 | 142.26 | 0007 | 3196. | 723. | 0000 | 10 | 3139 | 0 | |
| CHN | 119 | 2 | 0027 | 0000 | 15 | 75 327 | 31 49.8'N | 27 43.9'E | 1 | 142.17 | 0008 | 2738. | 469. | 0000 | 10 | 3349 | 0 | |
| CHN | 119 | 2 | 0027 | 0000 | 26 | 75 327 | 31 49.8'N | 27 43.9'E | 1 | 142.17 | 0008 | 2738. | 82. | 0000 | 10 | 3326 | 0 | |
| CHN | 119 | 2 | 0028 | 0000 | 15 | 75 327 | 31 19.0'N | 28 11.0'E | 1 | 142.18 | 0009 | 891. | 711. | 0000 | 4 | 3349 | 0 | |
| | | | | | **COMMENTS** | | FLOW IN: 32-711 CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0028 | 0000 | 26 | 75 327 | 31 19.0'N | 28 11.0'E | 1 | 142.18 | 0009 | 891. | 69. | 0000 | 4 | 3339 | 0 | |
| CHN | 119 | 2 | 0062 | 0000 | 15 | 75 329 | 31 52.9'N | 29 38.1'E | 9 | 142.19 | 0011 | 1366. | 925. | 0000 | 24 | 4816 | 0 | |
| CHN | 119 | 2 | 0062 | 0000 | 26 | 75 329 | 31 52.9'N | 29 38.1'E | 9 | 142.19 | 0011 | 1366. | 84. | 0000 | 24 | 3428 | 0 | |
| CHN | 119 | 2 | 0064 | 0000 | 15 | 75 329 | 32 22.8'N | 29 13.5'E | 1 | 142.29 | 0012 | 2289. | 414. | 0000 | 24 | 3231 | 0 | |
| | | | | | **COMMENTS** | | DETRITUS INCREASES WITH DEPTH | | | | | | | | | | | |
| CHN | 119 | 2 | 0064 | 0000 | 26 | 75 329 | 32 22.8'N | 29 13.5'E | 1 | 142.29 | 0012 | 2289. | 40. | 0000 | 24 | 3339 | 0 | |
| CHN | 119 | 2 | 0068 | 0000 | 15 | 75 330 | 32 49.0'N | 28 43.7'E | 1 | 142.28 | 0013 | 2889. | 536. | 0000 | 10 | 8439 | 0 | |
| CHN | 119 | 2 | 0068 | 0000 | 26 | 75 330 | 32 49.0'N | 28 43.7'E | 1 | 142.28 | 0013 | 2889. | 88. | 0000 | 10 | 3266 | 0 | |
| CHN | 119 | 2 | 0070 | 0000 | 15 | 75 330 | 33 14.6'N | 28 15.4'E | 9 | 142.38 | 0014 | 3106. | 538. | 0000 | 10 | 4728 | 0 | |
| | | | | | **COMMENTS** | | FORAM SAND INCLUDES CONSIDERABLE DETRITUS | | | | | | | | | | | |
| CHN | 119 | 2 | 0070 | 0000 | 26 | 75 330 | 33 14.6'N | 28 15.4'E | 9 | 142.38 | 0014 | 3106. | 127. | 0000 | 10 | 4826 | 0 | |
| | | | | | **COMMENTS** | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | | |
| CHN | 119 | 2 | 0072 | 0000 | 15 | 75 330 | 33 19.4'N | 29 40.4'E | 9 | 142.39 | 0015 | 2828. | 968. | 0000 | 24 | 4818 | 0 | DISTAL FAN |
| CHN | 119 | 2 | 0072 | 0000 | 26 | 75 330 | 33 19.4'N | 29 40.4'E | 9 | 142.39 | 0015 | 2828. | 137. | 0000 | 24 | 4333 | 0 | DISTAL FAN |
| CHN | 119 | 2 | 0187 | 0000 | 20 | 75 411 | 31 16.0'N | 29 44.9'E | 3 | 142.19 | 0005 | 60. | 108. | 0000 | 24 | 3355 | 0 | |
| CHN | 119 | 2 | 0187 | 0000 | 13 | 75 411 | 31 16.0'N | 29 44.9'E | 3 | 142.19 | 0012 | 60. | 96. | 0000 | 24 | 3355 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 143 | | | | | | | | | | |
| 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 | 3329 | 0 | |
| 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 | 3329 | 0 | |
| 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 | 3339 | 0 | |
| CHN | 7 | 3 | 0001 | 0000 | 13 | 59 531 | 36 55.0'N | 19 50.2'E | 4 | 143.69 | 0001 | 3677. | 144. | 0000 | 21 | 3730 | 0 | STETSON COR |
| CHN | 43 | 1 | 0085 | 0000 | 13 | 64 627 | 38 47.3'N | 15 3.0'E | 5 | 143.85 | 0027 | 0. | 81. | 0000 | 21 | 4969 | 41 | |
| 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 | 3931 | 41 | |
| | | | | | **COMMENTS** | | ON HIGH (1000 FTHMS) IN ATLANTIS II DEEP | | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | EAST END OF SICILY | | | | | | | | | | | |
| 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 | 3359 | 41 | |
| CHN | 61 | 2 | 0025 | 0000 | 15 | 66 812 | 35 12.3'N | 16 31.1'E | 1 | 143.56 | 0000 | 1460. | 732. | 0000 | 21 | 3346 | 41 | |
| | | | | | **COMMENTS** | | FLOW-IN,375-732 CM | | | | | | | | | | | |
| CHN | 61 | 2 | 0029 | 0000 | 15 | 66 816 | 35 55.3'N | 19 36.0'E | 6 | 143.59 | 0000 | 3955. | 910. | 0000 | 21 | 3359 | 41 | ALL 1 UNIT |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 61 | 2 | 0031 | 0000 | 15 | 66 817 | 33 30.5'N | 19 49.8'E | 6 | 143.39 | 0000 | 1108. | 338. | 0000 | 21 | 3322 | 41 | |
| | | | | | | | MARSDEN SQUARE # 144 | | | | | | | | | | | |
| CHN | 7 | 3 | 0008 | 0000 | 14 | 59 627 | 39 30.0'N | 6 .0'E | 4 | 144.96 | 0008 | 2848. | 2848. | 2006 | 0 | 0000 | 0 | |
| CHN | 21 | 1 | 0018 | 0000 | 13 | 61 929 | 39 31.0'N | 5 26.0'E | 3 | 144.95 | 0018 | 2777. | 154. | 0000 | 21 | 4860 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 147 | | | | | | | | | | | |
| 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 | 3964 | 41 | |
| 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 | 3969 | 41 | |
| CHN | 43 | 1 | 0109 | 0000 | 13 | 64 811 | 42 37.1'N | 28 44.8'W | 10 | 147.28 | 0032 | 2538. | 30. | 0000 | 16 | 3359 | 41 | |
| CHN | 43 | 1 | 0115 | 0000 | 15 | 64 812 | 42 37.4'N | 28 46.4'W | 10 | 147.28 | 0033 | 2568. | 278. | 0000 | 16 | 3969 | 41 | |
| 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 | 3938 | 54 | |
| 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 | 3329 | 54 | |
| 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 | 3324 | 54 | |
| | | | | | **COMMENTS** | | 212-254 CM STORED IN JARS; POSSIBLE FLOW-IN 430-510 CM | | | | | | | | | | | |
| 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 | 3359 | 54 | |
| 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 | 3328 | 54 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES; CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | | |
| 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 | 3322 | 54 | |
| CHN | 82 | 6 | 0028 | 0000 | 15 | 68 810 | 42 .0'N | 29 54.0'W | 8 | 147.29 | 0008 | 2434. | 680. | 0000 | 15 | 3322 | 54 | |
| | | | | | **COMMENTS** | | FLOW-IN,480-680 | | | | | | | | | | | |
| CHN | 82 | 6 | 0028 | 0000 | 26 | 68 810 | 42 .0'N | 29 54.0'W | 8 | 147.29 | 0008 | 2434. | 65. | 0000 | 15 | 3329 | 54 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| CHN | 82 | 7 | 0030 | 0000 | 15 | 68 816 | 40 51.1'N | 26 25.0'W | 8 | 147.06 | 0009 | 2830. | 664. | 0000 | 15 | 3932 | 40 | |
| CHN | 82 | 7 | 0030 | 0000 | 26 | 68 816 | 40 51.1'N | 26 27.0'W | 8 | 147.06 | 0009 | 2830. | 64. | 0000 | 15 | 3932 | 40 | |
| CHN | 82 | 7 | 0030 | 0000 | 15 | 68 817 | 40 48.2'N | 26 27.0'W | 8 | 147.06 | 0010 | 2835. | 321. | 0000 | 15 | 3329 | 54 | |
| CHN | 82 | 7 | 0032 | 0000 | 15 | 68 820 | 43 45.0'N | 27 46.5'W | 8 | 147.37 | 0012 | 2535. | 248. | 0000 | 15 | 3338 | 54 | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES; CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | | |
| CHN | 82 | 7 | 0032 | 0000 | 26 | 68 820 | 43 45.0'N | 27 46.5'W | 8 | 147.37 | 0012 | 2535. | 79. | 0000 | 15 | 3339 | 54 | |
| CHN | 82 | 7 | 0033 | 0000 | 15 | 68 822 | 42 28.5'N | 28 40.0'W | 8 | 147.28 | 0013 | 2378. | 526. | 0000 | 15 | 3334 | 54 | |
| CHN | 82 | 7 | 0033 | 0000 | 26 | 68 822 | 42 28.5'N | 28 40.0'W | 8 | 147.28 | 0013 | 2378. | 77. | 0000 | 15 | 3338 | 54 | |
| | | | | | **COMMENTS** | | CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | | |
| CHN | 82 | 7 | 0036 | 0000 | 26 | 68 823 | 42 33.3'N | 29 18.5'W | 8 | 147.29 | 0014 | 3397. | 36. | 0000 | 16 | 3359 | 54 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 147 | | | | | | | | | | |
| CHN | 82 | 7 | 0041 | 0000 | 15 | 68 826 | 43 22.3'N | 28 13.9'W | 8 | 147.38 | 0015 | 2151. | 393. | 0000 | 16 | 3028 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES; | | | | | | | | | | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE IS CALC.SILIC OOZE | | | | | | | | | | |
| CHN | 82 | 7 | 0041 | 0000 | 26 | 68 826 | 43 22.3'N | 28 13.9'W | 8 | 147.38 | 0015 | 2151. | 122. | 0000 | 16 | 3324 | 54 | |
| CHN | 82 | 7 | 0042 | 0000 | 15 | 68 826 | 43 19.8'N | 28 5.9'W | 8 | 147.38 | 0016 | 2958. | 533. | 0000 | 16 | 3738 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED, PEBBLES | | | | | | | | | | |
| CHN | 82 | 7 | 0044 | 0000 | 15 | 68 831 | 40 57.7'N | 27 11.5'W | 8 | 147.07 | 0017 | 2535. | 395. | 0000 | 16 | 3338 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | |
| CHN | 82 | 7 | 0044 | 0000 | 26 | 68 831 | 40 57.7'N | 27 11.5'W | 8 | 147.07 | 0017 | 2535. | 111. | 0000 | 16 | 3334 | 54 | |
| CHN | 82 | 8 | 0045 | 0000 | 15 | 68 831 | 41 35.9'N | 27 27.0'W | 8 | 147.17 | 0018 | 2533. | 680. | 0000 | 16 | 3738 | 47 | |
| 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 | 3322 | 54 | |
| 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 | 3369 | 54 | |
| 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 | 3838 | 47 | |
| 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 | 3029 | 47 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE: CALC.SILIC OOZE | | | | | | | | | | |
| 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 | 3738 | 54 | |
| 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 | 3738 | 54 | |
| | | | | | **COMMENTS** | | | CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | |
| 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 | 3038 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE: CALC.SILIC OOZE | | | | | | | | | | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES; SHELL FRAGMENTS; | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 148 | | | | | | | | | | |
| CHN | 13 | 1 | 0003 | 0000 | 15 | 60 718 | 47 25.0'N | 37 33.0'W | 4 | 148.77 | 0003 | 2716. | 847. | 0000 | 11 | 3864 | 0 | |
| 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 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION;VOID,348-377 CM | | | | | | | | | | |
| 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 | 3322 | 54 | |
| 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 | 3328 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | |
| 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 | 3325 | 54 | |
| CHN | 82 | 7 | 0031 | 0000 | 15 | 68 819 | 42 23.0'N | 31 47.5'W | 8 | 148.21 | 0011 | 3209. | 541. | 0000 | 15 | 3338 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | |
| CHN | 82 | 7 | 0031 | 0000 | 26 | 68 819 | 42 23.0'N | 31 47.5'W | 8 | 148.21 | 0011 | 3209. | 86. | 0000 | 15 | 3868 | 54 | |
| | | | | | **COMMENTS** | | | CORE EXTENSIVELY MOTTLED; PEBBLES | | | | | | | | | | |
| 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 | 3338 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES; 0-22 CM STORED IN JARS | | | | | | | | | | |
| 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 | 3328 | 54 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: CORE EXTENSIVELY MOTTLED; PEBBLES;MN NODULES | | | | | | | | | | |
| 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 | 3738 | 54 | |
| CHN | 82 | 8 | 0059 | 0000 | 15 | 68 9 8 | 43 20.1'N | 30 .0'W | 8 | 148.30 | 0026 | 2760. | 495. | 0000 | 15 | 0329 | 54 | |
| | | | | | **COMMENTS** | | | PRIM. SED TYPE:CALC-SILIC OOZE;FLOW-IN,480-495 CM | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEV. VICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 151 | | | | | | | | | | |
| AII | 33 | 1 | 0001 | 0000 | 15 | 67 728 | 43 1.0'N | 70 26.0'W | 5 | 151.30 | 0001 | 105. | 468. | 0000 | 23 | 4839 | 54 | |
| 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 | 2248 | 44 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: SHELL FRAGMENTS, PEBBLES, GRADED BEDDING | | | | | | | | | | |
| | | | | | | | | 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 | 8855 | 0 | |
| AII | 72 | 1 | 0001 | 0000 | 26 | 721021 | 40 7.7'N | 70 34.4'W | 5 | 152.00 | 0001 | 117. | 37. | 0000 | 2 | 2255 | 0 | |
| AII | 72 | 1 | 0010 | 0000 | 15 | 721022 | 40 4.4'N | 70 59.5'W | 5 | 152.00 | 0009 | 214. | 364. | 0000 | 4 | 8855 | 0 | |
| AII | 72 | 1 | 0012 | 0000 | 15 | 721023 | 40 1.3'N | 70 44.4'W | 9 | 152.00 | 0010 | 225. | 375. | 0000 | 4 | 2838 | 0 | |
| | | | | | **COMMENTS** | | | FLOW-IN,148-375 CM | | | | | | | | | | |
| ALB | 18 | 4 | 0001 | 3050 | 13 | 681211 | 40 21.5'N | 71 20.5'W | 5 | 152.01 | 0001 | 79. | 74. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0002 | 3051 | 13 | 681211 | 40 18.0'N | 71 19.5'W | 5 | 152.01 | 0002 | 84. | 70. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0003 | 3052 | 13 | 681211 | 40 14.5'N | 71 17.5'W | 5 | 152.01 | 0003 | 88. | 59. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0004 | 3053 | 13 | 681211 | 40 11.0'N | 71 15.0'W | 5 | 152.01 | 0004 | 101. | 33. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0005 | 3054 | 13 | 681211 | 40 7.3'N | 71 13.0'W | 5 | 152.01 | 0005 | 146. | 97. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0006 | 3055 | 13 | 681211 | 40 1.0'N | 71 9.0'W | 5 | 152.01 | 0006 | 77. | 41. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0011 | 3060 | 13 | 681211 | 40 3.3'N | 70 50.5'W | 5 | 152.00 | 0011 | 161. | 35. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0012 | 3061 | 13 | 681211 | 40 7.5'N | 70 54.0'W | 5 | 152.00 | 0012 | 137. | 45. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0013 | 3062 | 13 | 681211 | 40 11.0'N | 70 55.8'W | 5 | 152.00 | 0013 | 128. | 50. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0014 | 3063 | 13 | 681211 | 40 14.8'N | 70 57.0'W | 5 | 152.00 | 0014 | 113. | 70. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0015 | 3064 | 13 | 681211 | 40 18.5'N | 70 59.3'W | 5 | 152.00 | 0015 | 97. | 99. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0016 | 3065 | 13 | 681211 | 40 23.0'N | 71 1.0'W | 5 | 152.01 | 0016 | 84. | 110. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0017 | 3066 | 13 | 681211 | 40 27.0'N | 71 3.0'W | 5 | 152.01 | 0017 | 77. | 193. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0018 | 3067 | 13 | 681211 | 40 31.0'N | 71 4.5'W | 5 | 152.01 | 0018 | 73. | 140. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0019 | 3068 | 13 | 681211 | 40 34.0'N | 71 7.8'W | 5 | 152.01 | 0019 | 66. | 119. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0020 | 3069 | 13 | 681212 | 40 39.0'N | 71 11.8'W | 5 | 152.01 | 0020 | 66. | 61. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0021 | 3070 | 13 | 681212 | 40 42.0'N | 71 14.7'W | 5 | 152.00 | 0021 | 58. | 49. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0022 | 3071 | 13 | 681212 | 40 42.0'N | 70 58.0'W | 5 | 152.00 | 0022 | 58. | 127. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0023 | 3072 | 13 | 681212 | 40 37.0'N | 70 55.0'W | 5 | 152.00 | 0023 | 64. | 160. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0024 | 3073 | 13 | 681212 | 40 34.0'N | 70 53.0'W | 5 | 152.00 | 0024 | 66. | 128. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0025 | 3074 | 13 | 681212 | 40 30.8'N | 70 50.5'W | 5 | 152.00 | 0025 | 68. | 140. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0026 | 3075 | 13 | 681212 | 40 28.0'N | 70 48.5'W | 5 | 152.00 | 0026 | 71. | 164. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0027 | 3076 | 13 | 681212 | 40 25.3'N | 70 47.0'W | 5 | 152.00 | 0027 | 79. | 142. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0028 | 3077 | 13 | 681212 | 40 23.5'N | 70 45.8'W | 5 | 152.00 | 0028 | 88. | 170. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0029 | 3078 | 13 | 681212 | 40 20.5'N | 70 43.5'W | 5 | 152.00 | 0029 | 97. | 162. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0030 | 3079 | 13 | 681212 | 40 18.5'N | 70 42.2'W | 5 | 152.00 | 0030 | 108. | 162. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0031 | 3080 | 13 | 681212 | 40 14.0'N | 70 39.5'W | 5 | 152.00 | 0031 | 117. | 145. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0032 | 3081 | 13 | 681212 | 40 10.5'N | 70 37.0'W | 5 | 152.00 | 0032 | 117. | 81. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0033 | 3082 | 13 | 681212 | 40 8.0'N | 70 34.0'W | 5 | 152.00 | 0033 | 117. | 52. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0034 | 3083 | 13 | 681212 | 40 4.8'N | 70 33.5'W | 5 | 152.00 | 0034 | 128. | 23. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0035 | 3085 | 13 | 681212 | 40 9.7'N | 70 15.5'W | 5 | 152.00 | 0035 | 113. | 52. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0036 | 3086 | 13 | 681212 | 40 15.0'N | 70 17.5'W | 5 | 152.00 | 0036 | 93. | 99. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0037 | 3087 | 13 | 681212 | 40 19.5'N | 70 20.0'W | 5 | 152.00 | 0037 | 84. | 135. | 0000 | 2 | 0000 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 152 | | | | | | | | | | | |
| ALB | 18 | 4 | 0038 | 3088 | 13 | 681212 | 40 24.0'N | 70 25.0'W | 5 | 152.00 | 0038 | 69. | 135. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0039 | 3089 | 13 | 681212 | 40 27.5'N | 70 35.0'W | 5 | 152.00 | 0039 | 75. | 143. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0040 | 3090 | 13 | 681212 | 40 26.5'N | 70 41.0'W | 5 | 152.00 | 0040 | 77. | 142. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0041 | 3091 | 13 | 681213 | 40 25.6'N | 70 51.5'W | 5 | 152.00 | 0041 | 82. | 172. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0042 | 3092 | 13 | 681213 | 40 25.0'N | 70 56.5'W | 5 | 152.00 | 0042 | 82. | 150. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0043 | 3093 | 13 | 681213 | 40 23.8'N | 71 5.6'W | 5 | 152.01 | 0043 | 82. | 112. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0044 | 3094 | 13 | 681213 | 40 22.9'N | 71 11.0'W | 5 | 152.01 | 0044 | 79. | 75. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0045 | 3095 | 13 | 681213 | 40 21.0'N | 71 24.3'W | 5 | 152.01 | 0045 | 75. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0046 | 3096 | 13 | 681213 | 40 20.5'N | 71 30.3'W | 5 | 152.01 | 0046 | 75. | 100. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0047 | 3097 | 13 | 681213 | 40 16.7'N | 71 32.8'W | 5 | 152.01 | 0047 | 80. | 71. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0048 | 3098 | 13 | 681213 | 40 12.5'N | 71 34.8'W | 5 | 152.01 | 0048 | 82. | 72. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0056 | 3106 | 13 | 681213 | 40 24.2'N | 71 40.5'W | 5 | 152.01 | 0056 | 75. | 83. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0058 | 3108 | 13 | 681213 | 40 33.2'N | 71 36.3'W | 5 | 152.01 | 0058 | 88. | 5. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0059 | 3109 | 13 | 681213 | 40 27.0'N | 71 25.0'W | 5 | 152.01 | 0059 | 68. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0060 | 3110 | 13 | 681213 | 40 19.0'N | 71 15.0'W | 5 | 152.01 | 0060 | 86. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0061 | 3111 | 13 | 681213 | 40 23.5'N | 71 17.0'W | 5 | 152.01 | 0061 | 79. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0062 | 3112 | 13 | 681213 | 40 26.7'N | 71 18.4'W | 5 | 152.01 | 0062 | 73. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0063 | 3113 | 13 | 681213 | 40 29.3'N | 71 19.8'W | 5 | 152.01 | 0063 | 68. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0064 | 3114 | 13 | 681213 | 40 32.2'N | 71 20.3'W | 5 | 152.01 | 0064 | 82. | 10. | 0000 | 2 | 0000 | 0 | |
| ALB | 18 | 4 | 0065 | 3115 | 13 | 681213 | 40 39.0'N | 71 20.3'W | 5 | 152.01 | 0065 | 57. | 37. | 0000 | 2 | 0000 | 0 | |
| AST | 7 | 76 | 0108 | 0000 | 13 | 76 7 7 | 41 32.0'N | 70 46.2'W | 1 | 152.10 | 0020 | 15. | 140. | 0000 | 23 | 8668 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8668 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 2135 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SED. TYPE IS SLIGHTLY SILIC | | | | | | | | | | | |
| 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 | 2835 | 0 | |
| | | | | | **COMMENTS** | | BOTH SED. TYPES ARE SLIGHTLY SILIC | | | | | | | | | | | |
| AST | 9 | 75 | 0024 | 0000 | 13 | 75 916 | 41 32.3'N | 70 54.3'W | 1 | 152.10 | 0001 | 6. | 112. | 0000 | 23 | 6265 | 0 | |
| | | | | | **COMMENTS** | | POST CORING OXIDATION GENERALLY APPARENT IN MOST NEW BEDFORD CORES | | | | | | | | | | | |
| AST | 9 | 75 | 0052 | 0000 | 13 | 75 916 | 41 36.5'N | 70 55.6'W | 1 | 152.10 | 0003 | 4. | 34. | 0000 | 23 | 6865 | 0 | |
| AST | 9 | 75 | 0067 | 0000 | 13 | 75 917 | 41 36.2'N | 70 53.6'W | 1 | 152.10 | 0004 | 9. | 88. | 0000 | 23 | 6865 | 0 | |
| AST | 9 | 75 | 0078 | 0000 | 13 | 75 917 | 41 37.0'N | 70 54.1'W | 1 | 152.10 | 0006 | 9. | 70. | 0000 | 23 | 6865 | 0 | |
| AST | 9 | 75 | 0080 | 0000 | 13 | 75 919 | 41 38.3'N | 70 55.0'W | 1 | 152.10 | 0008 | 8. | 68. | 0000 | 23 | 6265 | 0 | |
| | | | | | **COMMENTS** | | TOP PORTION OF ALUMINUM BEVERAGE CONTAINER RECOVERED | | | | | | | | | | | |
| AST | 10 | 75 | 0081 | 0000 | 13 | 7510 9 | 41 39.1'N | 70 55.2'W | 1 | 152.10 | 0009 | 5. | 119. | 0000 | 23 | 6838 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | | |
| AST | 10 | 75 | 0083 | 0000 | 13 | 7510 9 | 41 38.7'N | 70 55.1'W | 1 | 152.10 | 0010 | 3. | 23. | 0000 | 23 | 8665 | 0 | |
| AST | 10 | 75 | 0084 | 0000 | 13 | 7510 9 | 41 38.6'N | 70 54.8'W | 1 | 152.10 | 0011 | 3. | 123. | 0000 | 23 | 6865 | 0 | |
| AST | 10 | 75 | 0085 | 0000 | 13 | 7510 9 | 41 38.9'N | 70 55.2'W | 1 | 152.10 | 0012 | 5. | 39. | 0000 | 23 | 6265 | 0 | |
| AST | 10 | 75 | 0086 | 0000 | 13 | 7510 9 | 41 38.7'N | 70 55.3'W | 1 | 152.10 | 0013 | 11. | 63. | 0000 | 23 | 8634 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | | |
| AST | 10 | 75 | 0087 | 0000 | 13 | 7510 9 | 41 38.5'N | 70 55.2'W | 1 | 152.10 | 0014 | 10. | 52. | 0000 | 23 | 6821 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | | |
| AST | 10 | 75 | 0092 | 0000 | 13 | 751010 | 41 32.8'N | 70 54.3'W | 1 | 152.10 | 0016 | 13. | 79. | 0000 | 23 | 8661 | 0 | |
| AST | 10 | 75 | 0097 | 0000 | 13 | 751010 | 41 33.5'N | 70 53.9'W | 1 | 152.10 | 0017 | 13. | 87. | 0000 | 23 | 8668 | 0 | |
| AST | 10 | 75 | 0099 | 0000 | 13 | 751010 | 41 33.5'N | 70 52.7'W | 1 | 152.10 | 0018 | 12. | 134. | 0000 | 23 | 6265 | 0 | |
| AST | 10 | 75 | 0100 | 0000 | 13 | 751010 | 41 33.9'N | 70 52.1'W | 1 | 152.10 | 0019 | 12. | 94. | 0000 | 23 | 6865 | 0 | |
| 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 | 2665 | 0 | |
| | | | | | | | MARSDEN SQUARE # 176 | | | | | | | | | | | |
| AII | 49 | 4 | 1470 | 0000 | 13 | 69 419 | 42 2.9'N | 41 18.1'E | 5 | 176.21 | 029A | 906. | 218. | 0000 | 21 | 4316 | 0 | |
| | | | | | | | MARSDEN SQUARE # 177 | | | | | | | | | | | |
| AII | 49 | 3 | 1431 | 0000 | 15 | 69 322 | 42 14.0'N | 33 4.0'E | 5 | 177.23 | 002A | 2136. | 491. | 0000 | 21 | 3226 | 0 | |
| AII | 49 | 3 | 1432 | 0000 | 13 | 69 323 | 43 .6'N | 34 4.5'E | 5 | 177.34 | 0003 | 2248. | 124. | 0000 | 21 | 3419 | 0 | |
| | | | | | **COMMENTS** | | CORE IN POOR CONDITION | | | | | | | | | | | |
| AII | 49 | 3 | 1433 | 0000 | 15 | 69 324 | 44 5.0'N | 35 .0'E | 5 | 177.45 | 004A | 2225. | 493. | 0000 | 21 | 0311 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 49 | 3 | 1434 | 0000 | 15 | 69 325 | 44 20.0'N | 36 .0'E | 5 | 177.46 | 005A | 1466. | 140. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 3 | 1435 | 0000 | 13 | 69 325 | 44 26.0'N | 36 13.0'E | 5 | 177.46 | 0006 | 1033. | 160. | 0000 | 21 | 2329 | 0 | |
| AII | 49 | 3 | 1436 | 0000 | 15 | 69 326 | 43 24.0'N | 36 36.0'E | 5 | 177.36 | 007A | 2158. | 535. | 0000 | 21 | 2431 | 0 | |
| AII | 49 | 3 | 1436 | 0000 | 26 | 69 326 | 43 24.0'N | 36 36.0'E | 5 | 177.36 | 007B | 2158. | 119. | 0000 | 21 | 4349 | 0 | |
| AII | 49 | 3 | 1437 | 0000 | 13 | 69 327 | 41 41.2'N | 38 28.3'E | 5 | 177.18 | 0008 | 973. | 62. | 0000 | 21 | 3219 | 0 | |
| AII | 49 | 3 | 1438 | 0000 | 13 | 69 328 | 41 58.5'N | 35 41.0'E | 5 | 177.15 | 0009 | 284. | 145. | 0000 | 21 | 3316 | 0 | |
| AII | 49 | 3 | 1439 | 0000 | 15 | 69 329 | 42 21.9'N | 35 29.5'E | 5 | 177.25 | 010A | 1943. | 700. | 0000 | 21 | 2815 | 0 | |
| AII | 49 | 3 | 1440 | 0000 | 13 | 69 329 | 42 12.2'N | 34 21.3'E | 5 | 177.24 | 011A | 264. | 131. | 0000 | 21 | 4319 | 0 | |
| AII | 49 | 3 | 1440 | 0000 | 15 | 69 329 | 42 12.7'N | 34 21.3'E | 5 | 177.24 | 011B | 207. | 740. | 0000 | 21 | 3125 | 0 | |
| AII | 49 | 3 | 1440 | 0000 | 26 | 69 329 | 42 12.7'N | 34 21.3'E | 5 | 177.24 | 011C | 207. | 128. | 0000 | 21 | 0059 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| AII | 49 | 3 | 1442 | 0000 | 15 | 69 331 | 44 44.3'N | 31 57.2'E | 5 | 177.41 | 012A | 420. | 278. | 0000 | 21 | 4839 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,160-278 CM | | | | | | | | | | | |
| AII | 49 | 3 | 1442 | 0000 | 26 | 69 331 | 44 44.3'N | 31 57.2'E | 5 | 177.41 | 012B | 420. | 132. | 0000 | 21 | 4326 | 0 | |
| AII | 49 | 3 | 1442 | 0000 | 13 | 69 331 | 44 35.9'N | 31 54.0'E | 5 | 177.41 | 012C | 549. | 127. | 0000 | 21 | 3419 | 0 | |
| AII | 49 | 3 | 1443 | 0000 | 15 | 69 331 | 44 35.3'N | 31 55.3'E | 5 | 177.41 | 013A | 1057. | 766. | 0000 | 21 | 2416 | 0 | |
| AII | 49 | 3 | 1443 | 0000 | 26 | 69 331 | 44 35.3'N | 31 55.3'E | 5 | 177.41 | 013B | 1057. | 198. | 0000 | 21 | 3429 | 0 | |
| 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 | 4216 | 0 | |
| 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 | 3216 | 0 | |
| 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 | 3419 | 0 | |
| 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 | 4831 | 0 | |
| 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 | 0239 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SED TYPE, CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 3219 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 177 | | | | | | | | | | |
| 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 | 4669 | 0 | |
| 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 | 3416 | 0 | |
| | | | | | **COMMENTS** | | | VOID,55-73 CM | | | | | | | | | | |
| AII | 49 | 4 | 1462 | 0000 | 13 | 69 414 | 43 4.5'N | 32 59.5'E | 5 | 177.32 | 024B | 2179. | 106. | 0000 | 21 | 4319 | 0 | |
| AII | 49 | 4 | 1462 | 0000 | 20 | 69 414 | 43 2.8'N | 33 2.1'E | 6 | 177.33 | 024A | 2186. | 296. | 0000 | 21 | 0000 | 0 | UNSPLIT |
| AII | 49 | 4 | 1464 | 0000 | 15 | 69 415 | 43 1.9'N | 35 28.7'E | 5 | 177.35 | 025B | 2173. | 211. | 0000 | 21 | 3449 | 0 | |
| AII | 49 | 4 | 1464 | 0000 | 26 | 69 415 | 43 1.9'N | 35 28.7'E | 5 | 177.35 | 025C | 2173. | 107. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1464 | 0000 | 13 | 69 415 | 43 3.0'N | 35 31.0'E | 5 | 177.35 | 025D | 2175. | 125. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1464 | 0000 | 20 | 69 415 | 43 1.0'N | 35 28.0'E | 6 | 177.35 | 025A | 2179. | 400. | 0000 | 21 | 0000 | 0 | UNSPLIT |
| AII | 49 | 4 | 1466 | 0000 | 15 | 69 417 | 43 1.8'N | 38 30.5'E | 5 | 177.38 | 026A | 2104. | 129. | 0000 | 21 | 8859 | 0 | |
| AII | 49 | 4 | 1466 | 0000 | 26 | 69 417 | 43 1.8'N | 38 30.5'E | 5 | 177.38 | 026B | 2104. | 128. | 0000 | 21 | 3419 | 0 | |
| AII | 49 | 4 | 1466 | 0000 | 20 | 69 417 | 43 7.1'N | 38 27.8'E | 6 | 177.38 | 026C | 2106. | 350. | 0000 | 21 | 0000 | 0 | UNSPLIT |
| AII | 49 | 4 | 1468 | 0000 | 20 | 69 418 | 42 .9'N | 40 26.2'E | 5 | 177.20 | 027A | 1918. | 15. | 0000 | 21 | 0000 | 0 | |
| AII | 49 | 4 | 1472 | 0000 | 13 | 69 420 | 43 9.0'N | 39 54.5'E | 5 | 177.39 | 030B | 1541. | 273. | 0000 | 21 | 0000 | 0 | |
| AII | 49 | 4 | 1473 | 0000 | 13 | 69 420 | 43 9.0'N | 38 51.2'E | 5 | 177.38 | 031A | 1412. | 212. | 0000 | 21 | 2258 | 0 | |
| AII | 49 | 4 | 1473 | 0000 | 15 | 69 420 | 43 52.0'N | 38 46.2'E | 5 | 177.38 | 031C | 1550. | 752. | 0000 | 21 | 2259 | 0 | |
| | | | | | **COMMENTS** | | | FLOW-IN,400-752 CM | | | | | | | | | | |
| AII | 49 | 4 | 1474 | 0000 | 15 | 69 421 | 42 23.0'N | 37 36.6'E | 5 | 177.27 | 032A | 2114. | 1152. | 0000 | 21 | 2339 | 0 | |
| AII | 49 | 4 | 1474 | 0000 | 26 | 69 421 | 42 23.0'N | 37 36.6'E | 5 | 177.27 | 032B | 2114. | 192. | 0000 | 21 | 2339 | 0 | |
| AII | 49 | 4 | 1474 | 0000 | 20 | 69 421 | 42 23.3'N | 37 37.2'E | 6 | 177.27 | 030C | 2117. | 600. | 0000 | 21 | 3839 | 0 | |
| AII | 49 | 4 | 1476 | 0000 | 13 | 69 423 | 41 37.7'N | 37 39.0'E | 5 | 177.17 | 033A | 1741. | 220. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1476 | 0000 | 20 | 69 423 | 41 35.0'N | 37 41.0'E | 5 | 177.17 | 033B | 1726. | 20. | 0000 | 21 | 0000 | 0 | |
| AII | 49 | 4 | 1477 | 0000 | 15 | 69 423 | 41 34.0'N | 39 3.2'E | 5 | 177.19 | 034B | 1966. | 530. | 0000 | 21 | 8436 | 0 | |
| AII | 49 | 4 | 1478 | 0000 | 15 | 69 425 | 42 8.0'N | 39 14.5'E | 5 | 177.29 | 035A | 2026. | 384. | 0000 | 21 | 8249 | 0 | |
| AII | 49 | 4 | 1478 | 0000 | 26 | 69 425 | 42 8.0'N | 39 14.5'E | 5 | 177.29 | 035B | 2026. | 89. | 0000 | 21 | 2349 | 0 | |
| AII | 49 | 4 | 1479 | 0000 | 15 | 69 425 | 42 17.6'N | 38 9.9'E | 5 | 177.28 | 036B | 2099. | 424. | 0000 | 21 | 2869 | 0 | |
| AII | 49 | 4 | 1479 | 0000 | 26 | 69 425 | 42 17.6'N | 38 9.8'E | 5 | 177.28 | 036A | 2099. | 75. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1480 | 0000 | 15 | 69 426 | 43 6.5'N | 38 25.7'E | 5 | 177.38 | 037A | 2108. | 428. | 0000 | 21 | 2311 | 0 | |
| AII | 49 | 4 | 1480 | 0000 | 26 | 69 426 | 43 6.5'N | 38 25.7'E | 5 | 177.38 | 037B | 2108. | 118. | 0000 | 21 | 3419 | 0 | |
| AII | 49 | 4 | 1481 | 0000 | 15 | 69 427 | 44 2.2'N | 37 58.2'E | 5 | 177.47 | 038A | 2037. | 508. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1481 | 0000 | 26 | 69 427 | 44 2.2'N | 37 58.2'E | 5 | 177.47 | 038B | 2037. | 191. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1484 | 0000 | 20 | 69 430 | 44 42.1'N | 36 53.6'E | 6 | 177.33 | 039A | 340. | 400. | 0000 | 21 | 3459 | 0 | |
| AII | 49 | 4 | 1484 | 0000 | 13 | 69 430 | 44 41.6'N | 36 54.9'E | 5 | 177.46 | 039B | 386. | 201. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1485 | 0000 | 20 | 69 430 | 44 24.9'N | 35 15.2'E | 5 | 177.45 | 040B | 1704. | 182. | 0000 | 21 | 2219 | 0 | |
| AII | 49 | 4 | 1486 | 0000 | 15 | 69 430 | 43 59.4'N | 33 44.6'E | 5 | 177.33 | 041A | 1998. | 825. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1486 | 0000 | 26 | 69 430 | 43 59.4'N | 33 44.6'E | 5 | 177.33 | 041B | 1998. | 80. | 0000 | 21 | 2319 | 0 | |
| AII | 49 | 4 | 1486 | 0000 | 13 | 69 430 | 43 59.4'N | 33 44.6'E | 5 | 177.33 | 041C | 1998. | 294. | 0000 | 21 | 2316 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 178 | | | | | | | | | | |
| AII | 49 | 3 | 1430 | 0000 | 13 | 69 321 | 41 25.7'N | 29 25.6'E | 5 | 178.19 | 0001 | 663. | 119. | 0000 | 21 | 2079 | 0 | |
| | | | | | **COMMENTS** | | | SEC SED TYPE,CALC-SILIC CLAY,VOID,13-25 CM,CORE IN POOR CONDITION | | | | | | | | | | |
| 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 | 3419 | 0 | |
| | | | | | **COMMENTS** | | | VOID,46-61 CM | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 178 | | | | | | | | | | |
| 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 | 4329 | 0 | |
| 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 | 0819 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED TYPE, CALC.SILIC OOZE | | | | | | | | | | |
| 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 | 0811 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED TYPE, CALC.SILIC OOZE | | | | | | | | | | |
| 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 | 3815 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 179 | | | | | | | | | | |
| CHN | 7 | 4 | 0001 | 0000 | 15 | 59 611 | 40 16.0'N | 12 37.5'E | 4 | 179.02 | 0001 | 3584. | 595. | 0000 | 21 | 3730 | 0 | |
| CHN | 7 | 4 | 0002 | 0000 | 15 | 59 613 | 40 2.0'N | 12 16.5'E | 4 | 179.02 | 0002 | 3610. | 874. | 0000 | 21 | 3960 | 0 | |
| CHN | 7 | 4 | 0003 | 0000 | 15 | 59 617 | 40 8.0'N | 12 19.0'E | 4 | 179.02 | 0003 | 3612. | 792. | 0000 | 21 | 3260 | 0 | |
| CHN | 7 | 4 | 0009 | 0000 | 13 | 59 617 | 40 10.0'N | 12 15.0'E | 4 | 179.02 | 0009 | 3453. | 190. | 0000 | 21 | 3340 | 0 | STETSON CORR |
| | | | | | | | | MARSDEN SQUARE # 180 | | | | | | | | | | |
| CHN | 7 | 7 | 0006 | 0000 | 15 | 59 711 | 41 35.0'N | 4 52.0'E | 4 | 180.14 | 0006 | 2499. | 764. | 0000 | 21 | 3230 | 0 | |
| CHN | 21 | 1 | 0019 | 0000 | 13 | 61 930 | 42 16.0'N | 7 10.5'E | 1 | 180.27 | 0019 | 2687. | 191. | 0000 | 21 | 3860 | 0 | |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| CHN | 21 | 1 | 0020 | 0000 | 13 | 6110 1 | 43 21.0'N | 8 15.5'E | 5 | 180.38 | 0020 | 2001. | 0. | 0000 | 21 | 0000 | 0 | IN JAR |
| | | | | | | | | 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 | 0 | |
| 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 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 182 | | | | | | | | | | |
| KNR | 51 | 3 | 0036 | 0000 | 16 | 75 824 | 54 28.5'N | 15 17.9'W | 9 | 182.45 | 0013 | 2665. | 1440. | 0000 | 26 | 4332 | 0 | |
| KNR | 51 | 3 | 0036 | 0000 | 26 | 75 824 | 54 28.5'N | 15 17.9'W | 9 | 182.45 | 0013 | 2665. | 139. | 0000 | 26 | 3429 | 0 | |
| KNR | 51 | 3 | 0039 | 0000 | 16 | 75 827 | 56 16.5'N | 12 30.2'W | 11 | 182.62 | 0017 | 2505. | 1003. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0039 | 0000 | 26 | 75 827 | 56 16.5'N | 12 30.2'W | 11 | 182.62 | 0017 | 2505. | 89. | 0000 | 26 | 3332 | 0 | |
| | | | | | **COMMENTS** | | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | |
| KNR | 51 | 3 | 0041 | 0000 | 16 | 75 829 | 56 17.9'N | 12 31.3'W | 11 | 182.62 | 0019 | 2535. | 1492. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 26 | 75 829 | 56 17.9'N | 12 31.3'W | 11 | 182.62 | 0019 | 2535. | 82. | 0000 | 26 | 3389 | 0 | |
| | | | | | **COMMENTS** | | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.8'N | 12 32.8'W | 11 | 182.62 | 0022 | 2930. | 84. | 0000 | 26 | 3462 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.8'N | 12 33.2'W | 11 | 182.62 | 0023 | 2939. | 86. | 0000 | 26 | 4359 | 0 | |

********** STATION DATA RETRIEVAL **********
********** DATE: 17:38 JUN 08,'77 **********

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 182 | | | | | | | | | | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.6'N | 12 33.3'W | 11 | 182.62 | 0024 | 2945. | 85. | 0000 | 26 | 4332 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.5'N | 12 33.8'W | 11 | 182.62 | 0025 | 2956. | 91. | 0000 | 26 | 3862 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.6'N | 12 34.0'W | 11 | 182.62 | 0026 | 2962. | 51. | 0000 | 26 | 3359 | 0 | |
| KNR | 51 | 3 | 0042 | 0000 | 16 | 75 830 | 56 13.4'N | 12 38.0'W | 11 | 182.62 | 0031 | 2619. | 1296. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0042 | 0000 | 26 | 75 830 | 56 13.4'N | 12 38.0'W | 11 | 182.62 | 0031 | 2619. | 123. | 0000 | 26 | 3359 | 0 | |
| 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 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 183 | | | | | | | | | | |
| CHN | 13 | 1 | 0004 | 0000 | 15 | 60 723 | 53 53.0'N | 24 12.0'W | 4 | 183.34 | 0004 | 3375. | 195. | 0000 | 11 | 3562 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 215 | | | | | | | | | | |
| 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 | 2849 | 0 | |
| 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 | 1819 | 0 | |
| 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 | 2234 | 0 | |
| 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 | 1819 | 0 | |
| 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 | 2259 | 0 | |
| 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 | 1814 | 0 | |
| 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 | 1814 | 0 | |
| AII | 32 | 1 | 0017 | 0000 | 13 | 67 613 | 55 28.4'N | 18 43.1'E | 3 | 215.58 | 0010 | 79. | 306. | 0000 | 20 | 1229 | 0 | |
| AII | 32 | 1 | 0018 | 0000 | 13 | 67 613 | 55 21.5'N | 18 54.2'E | 3 | 215.58 | 0011 | 86. | 124. | 0000 | 20 | 2249 | 0 | |
| AII | 32 | 2 | 0020 | 0000 | 13 | 67 613 | 55 21.9'N | 18 4.2'E | 3 | 215.58 | 0012 | 82. | 151. | 0000 | 20 | 2864 | 0 | |
| AII | 32 | 2 | 0021 | 0000 | 13 | 67 613 | 55 28.6'N | 18 17.3'E | 3 | 215.58 | 0013 | 82. | 214. | 0000 | 20 | 2814 | 0 | |
| AII | 32 | 2 | 0028 | 0000 | 13 | 67 614 | 55 25.2'N | 18 4.8'E | 3 | 215.58 | 0014 | 88. | 182. | 0000 | 20 | 2814 | 0 | |
| AII | 32 | 2 | 0029 | 0000 | 13 | 67 616 | 55 33.0'N | 18 28.1'E | 3 | 215.58 | 0015 | 86. | 43. | 0000 | 20 | 2869 | 0 | |
| AII | 32 | 2 | 0032 | 0000 | 13 | 67 617 | 55 8.2'N | 16 4.0'E | 3 | 215.56 | 0016 | 84. | 209. | 0000 | 20 | 1625 | 0 | |
| AII | 32 | 2 | 0037 | 0000 | 13 | 67 617 | 55 21.0'N | 16 4.2'E | 3 | 215.56 | 0017 | 86. | 393. | 0000 | 20 | 1819 | 0 | |
| AII | 32 | 2 | 0038 | 0000 | 13 | 67 617 | 55 29.1'N | 15 54.0'E | 3 | 215.55 | 0018 | 84. | 341. | 0000 | 20 | 2814 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 216 | | | | | | | | | | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 218 | | | | | | | | | | |
| 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 | 0 | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS SILICA RICH | | | | | | | | | | |
| KNR | 54 | 6 | 0100 | 0000 | 19 | 76 6 3 | 63 .0'N | 14 11.9'W | 1 | 218.34 | 0027 | 1526. | 50. | 0000 | 3 | 4839 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS SILTY-SANDY;SECONDARY SED. TYPE IS FORAM RICH | | | | | | | | | | |
| 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 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 219 | | | | | | | | | | |
| KNR | 51 | 3 | 0021 | 0000 | 18 | 75 811 | 61 40.4'N | 20 31.4'W | 11 | 219.10 | 0001 | 2062. | 52. | 0000 | 26 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED.TYPE CALC-SILIC OOZE | | | | | | | | | | |
| KNR | 51 | 3 | 0022 | 0000 | 18 | 75 811 | 61 38.4'N | 20 32.8'W | 11 | 219.10 | 0002 | 2079. | 96. | 0000 | 26 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE CALC-SILIC OOZE | | | | | | | | | | |
| KNR | 51 | 3 | 0023 | 0000 | 18 | 75 811 | 61 38.6'N | 20 34.4'W | 11 | 219.10 | 0003 | 2034. | 77. | 0000 | 26 | 0059 | 0 | |
| | | | | | **COMMENTS**. | | | PRIMARY AND SECONDARY SED.TYPES CALC-SILIC OOZE | | | | | | | | | | |
| | | | | | | | | 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 | 0 | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE IS CALC RICH | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 300 | | | | | | | | | | |
| CHN | 99 | 3 | 0029 | 0000 | 15 | 70 528 | 8 40.0'S | 9 25.0'W | 1 | 300.89 | 0020 | 3733. | 1129. | 0000 | 15 | 3329 | 54 | MAR |
| | | | | | **COMMENTS** | | | FLOW-IN,1025-1129 CM | | | | | | | | | | |
| CHN | 99 | 3 | 0030 | 0000 | 15 | 70 529 | 8 37.8'S | 8 5.8'W | 9 | 300.88 | 0021 | 4075. | 926. | 0000 | 15 | 3329 | 54 | MAR |
| CHN | 99 | 3 | 0031 | 0000 | 15 | 70 529 | 8 42.8'S | 6 25.5'W | 1 | 300.86 | 0022 | 4660. | 509. | 0000 | 15 | 1339 | 54 | MAR |
| CHN | 99 | 3 | 0032 | 0000 | 15 | 70 530 | 8 43.0'S | 4 58.7'W | 1 | 300.84 | 0023 | 4404. | 837. | 0000 | 15 | 3738 | 54 | MAR |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE:CORE EXTENSIVELY MOTTLED;GRADED BEDDING | | | | | | | | | | |
| CHN | 99 | 3 | 0033 | 0000 | 15 | 70 530 | 8 41.8'S | 3 32.5'W | 1 | 300.83 | 0024 | 4414. | 1066. | 0000 | 10 | 3932 | 54 | |
| CHN | 99 | 3 | 0034 | 0000 | 15 | 70 531 | 8 44.2'S | 1 52.5'W | 9 | 300.81 | 0025 | 4896. | 1076. | 0000 | 11 | 3532 | 54 | MAR |
| CHN | 99 | 3 | 0034 | 0000 | 26 | 70 531 | 8 44.2'S | 1 52.5'W | 9 | 300.81 | 0025 | 4896. | 176. | 0000 | 11 | 0549 | 54 | MAR |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 3022 | 54 | |
| | | | | | **COMMENTS** | | | SEC SED TYPE,CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 3032 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 301 | | | | | | | | | | |
| CHN | 99 | 3 | 0012 | 0000 | 13 | 70 519 | 0 9.0'S | 19 7.9'W | 9 | 301.09 | 0001 | 4195. | 31. | 0000 | 19 | 3339 | 0 | |
| | | | | | **COMMENTS** | | SOME SED MISSING | | | | | | | | | | | |
| CHN | 99 | 3 | 0014 | 0000 | 15 | 70 520 | 2 34.9'S | 19 5.2'W | 1 | 301.29 | 0011 | 5457. | 1097. | 0000 | 19 | 1432 | 54 | |
| CHN | 99 | 3 | 0014 | 0000 | 26 | 70 520 | 2 34.9'S | 19 5.2'W | 1 | 301.29 | 0011 | 5457. | 185. | 0000 | 19 | 3729 | 54 | |
| CHN | 99 | 3 | 0015 | 0000 | 15 | 70 521 | 4 36.0'S | 19 3.0'W | 1 | 301.49 | 0012 | 4353. | 1095. | 0000 | 15 | 3322 | 54 | |
| CHN | 99 | 3 | 0015 | 0000 | 26 | 70 521 | 4 36.0'S | 19 3.0'W | 1 | 301.49 | 0012 | 4353. | 188. | 0000 | 15 | 3359 | 54 | |
| CHN | 99 | 3 | 0016 | 0000 | 15 | 70 522 | 6 39.1'S | 18 55.3'W | 9 | 301.68 | 0013 | 4762. | 1184. | 0000 | 15 | 0322 | 40 | MAR |
| | | | | | **COMMENTS** | | PRIMARY SED. TYPE: CALC SILIC OOZE | | | | | | | | | | | |
| CHN | 99 | 3 | 0016 | 0000 | 26 | 70 522 | 6 39.1'S | 18 55.3'W | 9 | 301.68 | 0013 | 4762. | 186. | 0000 | 15 | 3342 | 40 | MAR |
| | | | | | **COMMENTS** | | SEC SED TYPE,SILIC-CALC OOZE | | | | | | | | | | | |
| CHN | 99 | 3 | 0019 | 0000 | 15 | 70 523 | 8 15.0'S | 17 40.0'W | 1 | 301.87 | 0014 | 4029. | 1037. | 0000 | 15 | 3731 | 54 | MAR |
| CHN | 99 | 3 | 0019 | 0000 | 26 | 70 523 | 8 15.0'S | 17 40.0'W | 1 | 301.87 | 0014 | 4029. | 84. | 0000 | 15 | 3329 | 54 | MAR |
| CHN | 99 | 3 | 0021 | 0000 | 15 | 70 524 | 8 10.3'S | 15 26.9'W | 9 | 301.85 | 0015 | 3652. | 911. | 0000 | 15 | 3329 | 54 | MAR |
| CHN | 99 | 3 | 0021 | 0000 | 26 | 70 524 | 8 10.3'S | 15 26.9'W | 9 | 301.85 | 0015 | 3652. | 81. | 0000 | 15 | 3359 | 54 | MAR |
| CHN | 99 | 3 | 0023 | 0000 | 15 | 70 525 | 6 46.7'S | 12 47.0'W | 1 | 301.62 | 0016 | 3286. | 858. | 0000 | 15 | 3729 | 54 | MAR |
| CHN | 99 | 3 | 0024 | 0000 | 15 | 70 526 | 7 20.1'S | 14 5.0'W | 4 | 301.74 | 0017 | 3722. | 829. | 0000 | 19 | 3721 | 54 | ASCENSION |
| CHN | 99 | 3 | 0026 | 0000 | 15 | 70 527 | 8 23.0'S | 13 3.6'W | 4 | 301.83 | 0018 | 3116. | 856. | 0000 | 14 | 3729 | 54 | |
| | | | | | **COMMENTS** | | POSSIBLE FLOW-IN,478-856 CM | | | | | | | | | | | |
| CHN | 99 | 3 | 0028 | 0000 | 15 | 70 528 | 8 39.7'S | 10 58.0'W | 9 | 301.80 | 0019 | 3462. | 796. | 0000 | 15 | 3729 | 54 | MAR |
| | | | | | **COMMENTS** | | FLOW-IN,700-796 CM | | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 308 | | | | | | | | | | |
| AII | 54 | 2 | 0053 | 0000 | 15 | 691129 | 2 45.0'S | 86 46.0'W | 0 | 308.26 | 0024 | 2805. | 818. | 0000 | 15 | 3568 | 0 | |
| AII | 54 | 2 | 0053 | 0000 | 26 | 691129 | 2 45.0'S | 86 46.0'W | 0 | 308.26 | 0024 | 2805. | 158. | 0000 | 15 | 3562 | 0 | |
| AII | 54 | 2 | 0055 | 0000 | 15 | 691130 | 4 16.2'S | 85 53.8'W | 9 | 308.45 | 0025 | 3225. | 934. | 0000 | 15 | 3568 | 0 | |
| AII | 54 | 2 | 0055 | 0000 | 26 | 691130 | 4 16.2'S | 85 53.8'W | 9 | 308.45 | 0025 | 3225. | 134. | 0000 | 15 | 3562 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 309 | | | | | | | | | | |
| AII | 54 | 2 | 0003 | 0000 | 15 | 691105 | 5 37.4'S | 87 21.3'W | 9 | 309.57 | 0002 | 3735. | 906. | 0000 | 11 | 3562 | 0 | |
| AII | 54 | 2 | 0003 | 0000 | 26 | 691105 | 5 37.4'S | 87 21.3'W | 9 | 309.57 | 0002 | 3735. | 89. | 0000 | 11 | 3562 | 0 | |
| AII | 54 | 2 | 0005 | 0000 | 15 | 691106 | 7 24.6'S | 89 10.1'W | 9 | 309.79 | 0003 | 4165. | 122. | 0000 | 11 | 6969 | 0 | |
| AII | 54 | 2 | 0005 | 0000 | 26 | 691106 | 7 24.6'S | 89 10.1'W | 9 | 309.79 | 0003 | 4165. | 140. | 0000 | 11 | 3569 | 0 | |
| AII | 54 | 2 | 0007 | 0000 | 15 | 691107 | 9 59.0'S | 91 13.0'W | 1 | 309.91 | 0004 | 4115. | 428. | 0000 | 11 | 3329 | 0 | |
| AII | 54 | 2 | 0007 | 0000 | 26 | 691107 | 9 59.0'S | 91 13.0'W | 1 | 309.91 | 0004 | 4115. | 85. | 0000 | 11 | 3539 | 0 | |
| AII | 54 | 2 | 0009 | 0000 | 15 | 691108 | 9 31.3'S | 94 12.6'W | 9 | 309.94 | 0005 | 3960. | 771. | 0000 | 13 | 3562 | 0 | |
| AII | 54 | 2 | 0009 | 0000 | 26 | 691108 | 9 31.3'S | 94 12.6'W | 9 | 309.94 | 0005 | 3960. | 91. | 0000 | 13 | 3562 | 0 | |
| AII | 54 | 2 | 0011 | 0000 | 15 | 691109 | 9 19.0'S | 97 36.2'W | 9 | 309.97 | 0006 | 4287. | 881. | 0000 | 15 | 0429 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC-SILIC CLAY | | | | | | | | | | | |
| AII | 54 | 2 | 0011 | 0000 | 26 | 691109 | 9 19.0'S | 97 36.2'W | 9 | 309.97 | 0006 | 4287. | 140. | 0000 | 15 | 3562 | 0 | |
| AII | 54 | 2 | 0012 | 0000 | 15 | 691110 | 8 49.0'S | 99 30.0'W | 1 | 309.89 | 0007 | 4375. | 799. | 0000 | 15 | 3032 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | SEC SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0012 | 0000 | 26 | 691110 | 8 49.0'S | 99 30.0'W | 1 | 309.89 | 0007 | 4375. | 140. | 0000 | 15 | 5369 | 0 | |
| ALL | 54 | 2 | 0042 | 0000 | 15 | 691122 | 5 59.8'S | 98 29.8'W | 9 | 309.58 | 0019 | 3659. | 961. | 0000 | 15 | 3569 | 0 | |
| ALL | 54 | 2 | 0042 | 0000 | 26 | 691122 | 5 59.8'S | 98 29.8'W | 9 | 309.58 | 0019 | 3659. | 127. | 0000 | 15 | 3569 | 0 | |
| ALL | 54 | 2 | 0045 | 0000 | 15 | 691123 | 6 15.7'S | 96 32.5'W | 9 | 309.69 | 0020 | 3785. | 966. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0045 | 0000 | 26 | 691123 | 6 15.7'S | 96 32.5'W | 9 | 309.69 | 0020 | 3785. | 145. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0047 | 0000 | 15 | 691124 | 6 46.9'S | 93 40.5'W | 9 | 309.63 | 0021 | 3985. | 832. | 0000 | 15 | 3562 | 0 | |
| ALL | 54 | 2 | 0047 | 0000 | 26 | 691124 | 6 46.9'S | 93 40.5'W | 9 | 309.63 | 0021 | 3985. | 155. | 0000 | 15 | 3562 | 0 | |
| ALL | 54 | 2 | 0050 | 0000 | 15 | 691125 | 5 32.5'S | 91 24.3'W | 9 | 309.51 | 0022 | 4075. | 1020. | 0000 | 15 | 3568 | 0 | |
| ALL | 54 | 2 | 0050 | 0000 | 26 | 691125 | 5 32.5'S | 91 24.3'W | 9 | 309.51 | 0022 | 4075. | 160. | 0000 | 15 | 3562 | 0 | |
| ALL | 54 | 2 | 0052 | 0000 | 15 | 691126 | 2 23.5'S | 90 5.2'W | 9 | 309.20 | 0023 | 3230. | 1046. | 0000 | 15 | 3569 | 0 | |
| ALL | 54 | 2 | 0052 | 0000 | 26 | 691126 | 2 23.5'S | 90 5.2'W | 9 | 309.20 | 0023 | 3230. | 67. | 0000 | 15 | 3569 | 0 | |
| CHN | 100 | 11 | 0140 | 0000 | 15 | 711022 | 10 5.0'S | 99 41.8'W | 9 | 309.09 | 0094 | 4314. | 739. | 0000 | 10 | 1422 | 0 | |
| CHN | 100 | 11 | 0140 | 0000 | 26 | 711022 | 10 5.0'S | 99 41.8'W | 9 | 309.09 | 0094 | 4314. | 154. | 0000 | 10 | 1152 | 0 | |
| CHN | 100 | 11 | 0141 | 0000 | 15 | 711023 | 8 34.4'S | 98 17.7'W | 9 | 309.88 | 0095 | 4038. | 627. | 0000 | 10 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0141 | 0000 | 26 | 711023 | 8 34.4'S | 98 17.7'W | 9 | 309.88 | 0095 | 4038. | 135. | 0000 | 10 | 3562 | 0 | |
| | | | | | | | MARSDEN SQUARE # 310 | | | | | | | | | | | |
| ALL | 54 | 2 | 0014 | 0000 | 15 | 691111 | 8 26.2'S | 102 12.0'W | 9 | 310.82 | 0008 | 3984. | 709. | 0000 | 15 | 4339 | 0 | |
| ALL | 54 | 2 | 0014 | 0000 | 26 | 691111 | 8 26.2'S | 102 12.0'W | 9 | 310.82 | 0008 | 3984. | 129. | 0000 | 15 | 3339 | 0 | |
| ALL | 54 | 2 | 0016 | 0000 | 15 | 691112 | 8 7.4'S | 104 18.8'W | 9 | 310.84 | 0009 | 3560. | 230. | 0000 | 15 | 3324 | 0 | |
| ALL | 54 | 2 | 0016 | 0000 | 26 | 691112 | 8 7.4'S | 104 18.8'W | 9 | 310.84 | 0009 | 3560. | 140. | 0000 | 15 | 3359 | 0 | |
| ALL | 54 | 2 | 0018 | 0000 | 15 | 691112 | 7 58.5'S | 106 32.5'W | 9 | 310.76 | 0010 | 3405. | 815. | 0000 | 14 | 3562 | 0 | |
| ALL | 54 | 2 | 0018 | 0000 | 26 | 691112 | 7 58.5'S | 106 32.5'W | 9 | 310.76 | 0010 | 3405. | 143. | 0000 | 14 | 3569 | 0 | |
| ALL | 54 | 2 | 0020 | 0000 | 13 | 691113 | 7 26.0'S | 108 15.0'W | 9 | 310.78 | 0001 | 3170. | 107. | 0000 | 14 | 3329 | 0 | |
| ALL | 54 | 2 | 0022 | 0000 | 15 | 691114 | 5 19.7'S | 108 48.3'W | 9 | 310.58 | 0011 | 3600. | 606. | 0000 | 14 | 0329 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0022 | 0000 | 26 | 691114 | 5 19.7'S | 108 48.3'W | 9 | 310.58 | 0011 | 3600. | 135. | 0000 | 14 | 0329 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0024 | 0000 | 15 | 691115 | 5 25.9'S | 108 15.1'W | 9 | 310.58 | 0012 | 3660. | 735. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0024 | 0000 | 26 | 691115 | 5 25.9'S | 108 15.1'W | 9 | 310.58 | 0012 | 3660. | 164. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0025 | 0000 | 15 | 691116 | 5 44.1'S | 107 27.2'W | 9 | 310.57 | 0013 | 3225. | 591. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0025 | 0000 | 26 | 691116 | 5 44.1'S | 107 27.2'W | 9 | 310.57 | 0013 | 3255. | 162. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0029 | 0000 | 15 | 691117 | 5 43.9'S | 107 34.1'W | 9 | 310.57 | 0014 | 3190. | 858. | 0000 | 14 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE;CALC.SILIC OOZE | | | | | | | | | | | |
| ALL | 54 | 2 | 0029 | 0000 | 26 | 691117 | 5 43.9'S | 107 34.1'W | 9 | 310.57 | 0014 | 3190. | 90. | 0000 | 14 | 3562 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 310 | | | | | | | | | | | |
| AII | 54 | 2 | 0031 | 0000 | 15 | 691118 | 24.2'S | 105 47.3'W | 9 | 310.65 | 0015 | 3497. | 741. | 0000 | 11 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 54 | 2 | 0031 | 0000 | 26 | 691118 | 24.2'S | 105 47.3'W | 9 | 310.65 | 0015 | 3497. | 70. | 0000 | 11 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| AII | 54 | 2 | 0035 | 0000 | 15 | 691119 | 19.0'S | 105 39.7'W | 9 | 310.65 | 0016 | 3341. | 916. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 54 | 2 | 0035 | 0000 | 26 | 691119 | 19.0'S | 105 39.7'W | 9 | 310.65 | 0016 | 3341. | 144. | 0000 | 15 | 0329 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| AII | 54 | 2 | 0037 | 0000 | 15 | 691120 | 30.6'S | 102 43.2'W | 1 | 310.52 | 0017 | 3835. | 837. | 0000 | 15 | 0322 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 54 | 2 | 0037 | 0000 | 26 | 691120 | 30.6'S | 102 43.2'W | 1 | 310.52 | 0017 | 3835. | 170. | 0000 | 15 | 3332 | 0 | |
| AII | 54 | 2 | 0039 | 0000 | 15 | 691121 | 38.3'S | 101 24.8'W | 9 | 310.51 | 0018 | 3755. | 814. | 0000 | 14 | 3562 | 0 | |
| AII | 54 | 2 | 0039 | 0000 | 26 | 691121 | 38.3'S | 101 24.8'W | 9 | 310.51 | 0018 | 3755. | 139. | 0000 | 14 | 3569 | 0 | |
| CHN | 100 | 11 | 0142 | 0000 | 15 | 711023 | 51.8'S | 100 41.2'W | 1 | 310.70 | 0096 | 4201. | 833. | 0000 | 10 | 4329 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0142 | 0000 | 26 | 711023 | 51.8'S | 100 41.2'W | 1 | 310.70 | 0096 | 4201. | 67. | 0000 | 10 | 1039 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0143 | 0000 | 15 | 711024 | 44.8'S | 101 24.6'W | 1 | 310.71 | 0097 | 4649. | 862. | 0000 | 10 | 3538 | 0 | |
| CHN | 100 | 11 | 0143 | 0000 | 26 | 711024 | 44.8'S | 101 24.6'W | 1 | 310.71 | 0097 | 4649. | 110. | 0000 | 10 | 6669 | 0 | |
| CHN | 100 | 11 | 0144 | 0000 | 15 | 711024 | 37.8'S | 101 55.4'W | 1 | 310.71 | 0098 | 3743. | 678. | 0000 | 10 | 3022 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0144 | 0000 | 26 | 711024 | 37.8'S | 101 55.4'W | 1 | 310.71 | 0098 | 3743. | 54. | 0000 | 10 | 0339 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0145 | 0000 | 15 | 711024 | 17.8'S | 102 58.2'W | 9 | 310.72 | 0099 | 4400. | 748. | 0000 | 10 | 1032 | 0 | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 11 | 0145 | 0000 | 26 | 711024 | 17.8'S | 102 58.2'W | 9 | 310.72 | 0099 | 4400. | 102. | 0000 | 10 | 5362 | 0 | |
| CHN | 100 | 11 | 0146 | 0000 | 15 | 711025 | 53.6'S | 102 38.8'W | 1 | 310.52 | 0100 | 4440. | 809. | 0000 | 10 | 5362 | 0 | |
| CHN | 100 | 11 | 0146 | 0000 | 26 | 711025 | 53.6'S | 102 38.8'W | 1 | 310.52 | 0100 | 4440. | 108. | 0000 | 10 | 5362 | 0 | |
| | | | | | | | MARSDEN SQUARE # 316 | | | | | | | | | | | |
| CHN | 100 | 10 | 0106 | 0000 | 14 | 71 910 | 3.7'S | 168 34.1'W | 1 | 316.88 | 0072 | 5117. | 0. | 0000 | 26 | 0000 | 0 | IN JAR |
| CHN | 100 | 10 | 0107 | 0000 | 15 | 71 911 | 3.0'S | 168 34.5'W | 1 | 316.88 | 0073 | 5159. | 34. | 0000 | 26 | 8853 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0109 | 0000 | 15 | 71 911 | 28.2'S | 168 43.8'W | 1 | 316.88 | 0074 | 4626. | 462. | 0000 | 26 | 1023 | 0 | SAMOAN PASS |
| | | | | | **COMMENTS** | | AXIS SAMOAN PASSAGE SEC. SED. TYPE IS CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 10 | 0109 | 0000 | 26 | 71 911 | 28.2'S | 168 43.8'W | 1 | 316.88 | 0074 | 4626. | 120. | 0000 | 26 | 1023 | 0 | SAMOAN PASS |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 100 | 10 | 0110 | 0000 | 15 | 71 912 | 37.1'S | 168 35.7'W | 1 | 316.88 | 0075 | 4576. | 255. | 0000 | 26 | 3123 | 0 | SAMOAN PASS |
| | | | | | **COMMENTS** | | RIDGE EASTERN SIDE OF THE SAMOAN PASSAGE | | | | | | | | | | | |
| CHN | 100 | 10 | 0110 | 0000 | 26 | 71 912 | 37.1'S | 168 35.7'W | 1 | 316.88 | 0075 | 4576. | 121. | 0000 | 26 | 3129 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0111 | 0000 | 15 | 71 912 | 40.5'S | 168 55.1'W | 1 | 316.88 | 0076 | 5026. | 549. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0111 | 0000 | 26 | 71 912 | 40.5'S | 168 55.1'W | 1 | 316.88 | 0076 | 5026. | 112. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0113 | 0000 | 15 | 71 912 | 22.2'S | 168 51.7'W | 1 | 316.88 | 0077 | 5162. | 354. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| | | | | | **COMMENTS** | | HILL IN MIDDLE OF SAMOAN PASSAGE | | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 316 | | | | | | | | | | | |
| CHN | 100 | 10 | 0113 | 0000 | 26 | 71 912 | 8 22.2'S | 168 51.7'W | 1 | 316.88 | 0077 | 5162. | 85. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0114 | 0000 | 15 | 71 912 | 8 25.7'S | 168 58.7'W | 9 | 316.88 | 0078 | 4550. | 521. | 0000 | 26 | 3423 | 0 | SAMOAN PASS |
| | | | | | **COMMENTS** | | WESTERN WALL OF SAMOAN PASSAGE | | | | | | | | | | | |
| CHN | 100 | 10 | 0114 | 0000 | 26 | 71 912 | 8 25.7'S | 168 58.7'W | 9 | 316.88 | 0078 | 4550. | 132. | 0000 | 26 | 3423 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0116 | 0000 | 15 | 71 913 | 8 20.3'S | 168 46.0'W | 9 | 316.88 | 0079 | 5123. | 1118. | 0000 | 26 | 1153 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0116 | 0000 | 26 | 71 913 | 8 20.3'S | 168 46.0'W | 9 | 316.88 | 0079 | 5123. | 150. | 0000 | 26 | 1653 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0117 | 0000 | 15 | 71 913 | 8 18.7'S | 168 33.3'W | 9 | 316.88 | 0080 | 4732. | 855. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0117 | 0000 | 26 | 71 913 | 8 18.7'S | 168 33.3'W | 91 | 316.88 | 0080 | 4732. | 117. | 0000 | 26 | 1323 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0118 | 0000 | 15 | 71 914 | 8 16.0'S | 168 44.1'W | 9 | 316.88 | 0081 | 5007. | 817. | 0000 | 26 | 1123 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0118 | 0000 | 26 | 71 914 | 8 16.0'S | 168 44.1'W | 9 | 316.88 | 0081 | 5007. | 119. | 0000 | 26 | 1433 | 0 | SAMOAN PASS |
| CHN | 100 | 10 | 0123 | 0000 | 14 | 71 916 | 7 15.7'S | 168 27.6'W | 9 | 316.88 | 0083 | 5768. | 84. | 0000 | 26 | 3359 | 0 | TOKELAU TRO |
| | | | | | **COMMENTS** | | SOUTH END OF THE TOKELAU TROUGH NEAR FAULT SCARP | | | | | | | | | | | |
| CHN | 100 | 10 | 0124 | 0000 | 15 | 71 916 | 7 19.0'S | 168 21.6'W | 1 | 316.78 | 0082 | 5742. | 1606. | 0000 | 26 | 3631 | 0 | TOKELAU TRO |
| | | | | | **COMMENTS** | | SOUTH END OF TOHELAU TROUGH | | | | | | | | | | | |
| CHN | 100 | 10 | 0124 | 0000 | 26 | 71 916 | 7 19.0'S | 168 21.6'W | 1 | 316.78 | 0082 | 5742. | 84. | 0000 | 26 | 1159 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0126 | 0000 | 15 | 71 916 | 7 25.8'S | 168 32.0'W | 1 | 316.78 | 0084 | 5508. | 659. | 0000 | 26 | 1163 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0126 | 0000 | 26 | 71 916 | 7 25.8'S | 168 32.0'W | 1 | 316.78 | 0084 | 5508. | 74. | 0000 | 26 | 1663 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0127 | 0000 | 15 | 71 917 | 7 21.2'S | 168 31.2'W | 1 | 316.78 | 0085 | 5457. | 743. | 0000 | 26 | 1139 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0128 | 0000 | 15 | 71 917 | 7 23.5'S | 168 41.3'W | 1 | 316.78 | 0086 | 5495. | 0. | 0000 | 26 | 0000 | 0 | IN JAR |
| CHN | 100 | 10 | 0129 | 0000 | 15 | 71 918 | 7 36.3'S | 167 57.0'W | 1 | 316.77 | 0087 | 4430. | 712. | 0000 | 26 | 3723 | 0 | TOKELAU TRO |
| | | | | | **COMMENTS** | | PLATEAU EAST OF THE SOUTHERN END OF TOKELAU TROUGH | | | | | | | | | | | |
| CHN | 100 | 10 | 0129 | 0000 | 26 | 71 918 | 7 36.3'S | 167 57.0'W | 1 | 316.77 | 0087 | 4430. | 144. | 0000 | 26 | 3469 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0131 | 0000 | 15 | 71 918 | 7 36.7'S | 168 10.6'W | 9 | 316.78 | 0088 | 5289. | 1958. | 0000 | 26 | 6339 | 0 | TOKELAU TRO |
| | | | | | **COMMENTS** | | SOUTH END TOKELAU TROUGH | | | | | | | | | | | |
| CHN | 100 | 10 | 0131 | 0000 | 26 | 71 918 | 7 36.7'S | 168 10.6'W | 9 | 316.78 | 0088 | 5289. | 135. | 0000 | 26 | 1529 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0132 | 0000 | 15 | 71 918 | 7 27.2'S | 168 6.7'W | 9 | 316.78 | 0089 | 5276. | 806. | 0000 | 26 | 1663 | 0 | TOKELAU TRO |
| CHN | 100 | 10 | 0132 | 0000 | 26 | 71 918 | 7 27.2'S | 168 6.7'W | 9 | 316.78 | 0089 | 5276. | 154. | 0000 | 26 | 1163 | 0 | TOKELAU TRO |
| | | | | | | | MARSDEN SQUARE # 328 | | | | | | | | | | | |
| AII | 15 | 15 | 0769 | 0000 | 13 | 65 7 6 | 31 58.0'S | 70 42.0'E | 9 | 328.30 | 0769 | 5141. | 123. | 0000 | 15 | 0053 | 0 | |
| | | | | | **COMMENTS** | | ENTIRE CORE MANGANESE | | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 329 | | | | | | | | | | | |
| CHN | 43 | 1 | 0053 | 0000 | 13 | 64 517 | 7 16.4'S | 60 32.0'E | 1 | 329.70 | 0018 | 3791. | 114. | 0000 | 10 | 3569 | 41 | |
| CHN | 43 | 1 | 0068 | 0000 | 15 | 64 528 | 1 2.5'S | 61 12.0'E | 1 | 329.11 | 0022 | 4565. | 306. | 0000 | 15 | 3449 | 41 | |
| | | | | | **COMMENTS** | | FLOW-IN,145-306 CM | | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 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 | 3029 | 41 | |
| | | | | | **COMMENTS** | | SEC SED TYPE;CALC-SILIC OOZE | | | | | | | | | | | |
| 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 | 3569 | 41 | |
| | | | | | **COMMENTS** | | PLAIN NNW OF SEYCHELLES PLATFORM | | | | | | | | | | | |
| CHN | 43 | 1 | 0015 | 0000 | 13 | 64 411 | 2 55.0'S | 55 43.0'E | 1 | 330.25 | 0008 | 3697. | 301. | 0000 | 10 | 3359 | 41 | |
| | | | | | **COMMENTS** | | N. OF SEYCHELLES PLATFORM | | | | | | | | | | | |
| CHN | 100 | 4 | 0048 | 0000 | 15 | 71 420 | 0 14.5'S | 56 3.5'E | 1 | 330.06 | 0036 | 4576. | 866. | 0000 | 13 | 0731 | 0 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,CALC-SILIC OOZE;VOID,154-148 CM;POSSIBLE FLOW-IN,830-866 CM | | | | | | | | | | | |
| CHN | 100 | 4 | 0048 | 0000 | 26 | 71 420 | 0 14.5'S | 56 3.5'E | 1 | 330.06 | 0036 | 4576. | 83. | 0000 | 13 | 3029 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 331 | | | | | | | | | | |
| CHN | 99 | 8 | 0058 | 0000 | 26 | 701125 | 3 32.4'S | 42 28.3'E | 9 | 331.32 | 0039 | 3467. | 133. | 0000 | 6 | 3329 | 45 | |
| CHN | 99 | 8 | 0059 | 0000 | 15 | 701126 | 3 24.0'S | 45 .5'E | 9 | 331.35 | 0040 | 4444. | 840. | 0000 | 6 | 3569 | 40 | |
| CHN | 99 | 8 | 0059 | 0000 | 26 | 701126 | 3 24.0'S | 45 .5'E | 9 | 331.35 | 0040 | 4444. | 178. | 0000 | 6 | 3569 | 40 | |
| | | | | | **COMMENTS** | | FLOW-IN,720-840 CM | | | | | | | | | | | |
| CHN | 99 | 8 | 0060 | 0000 | 15 | 701128 | 3 30.6'S | 47 .4'E | 9 | 331.37 | 0041 | 4832. | 811. | 0000 | 6 | 4831 | 0 | |
| CHN | 99 | 8 | 0060 | 0000 | 26 | 701128 | 3 30.6'S | 47 .4'E | 9 | 331.37 | 0041 | 4832. | 176. | 0000 | 6 | 3039 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE; CALC-SILIC OOZE | | | | | | | | | | | |
| CHN | 99 | 8 | 0061 | 0000 | 15 | 701129 | 3 26.6'S | 49 49.2'E | 9 | 331.39 | 0042 | 4890. | 996. | 0000 | 6 | 3831 | 0 | |
| CHN | 99 | 8 | 0061 | 0000 | 26 | 701129 | 3 26.6'S | 49 49.2'E | 9 | 331.39 | 0042 | 4890. | 188. | 0000 | 6 | 3569 | 0 | |
| CHN | 99 | 8 | 0062 | 0000 | 15 | 7012 1 | 6 46.4'S | 48 41.8'E | 9 | 331.68 | 0043 | 4425. | 959. | 0000 | 10 | 3732 | 0 | |
| CHN | 99 | 8 | 0062 | 0000 | 26 | 7012 1 | 6 46.4'S | 48 41.8'E | 9 | 331.68 | 0043 | 4425. | 157. | 0000 | 6 | 1439 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 333 | | | | | | | | | | |
| 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 | 5519 | 0 | LAKE KIVU 1 |
| 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 | 9469 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | VOID,38-74 CM | | | | | | | | | | | |
| 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 | 5516 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | VOID,28-54 CM | | | | | | | | | | | |
| 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 | 5529 | 0 | LAKE KIVU 1 |
| 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 | 5846 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | VOID,0-43 CM | | | | | | | | | | | |
| ZZZ | 71 | 0 | 0010 | 0000 | 15 | 71 310 | 1 45.8'S | 29 10.2'E | 2 | 333.19 | 0007 | 473. | 350. | 0000 | 22 | 5516 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | VOID,175-193 CM | | | | | | | | | | | |
| ZZZ | 71 | 0 | 0011 | 0000 | 15 | 71 310 | 1 47.0'S | 29 10.0'E | 2 | 333.19 | 0008 | 450. | 365. | 0000 | 22 | 5826 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | POSSIBLE FLOW-IN,320-365 CM | | | | | | | | | | | |
| ZZZ | 71 | 0 | 0013 | 0000 | 15 | 71 311 | 1 48.9'S | 29 10.9'E | 2 | 333.19 | 0009 | 468. | 275. | 0000 | 22 | 5246 | 0 | LAKE KIVU 1 |
| ZZZ | 71 | 0 | 0014 | 0000 | 15 | 71 311 | 1 56.0'S | 28 59.0'E | 2 | 333.18 | 0010 | 330. | 500. | 0000 | 22 | 2544 | 0 | LAKE KIVU 1 |
| | | | | | **COMMENTS** | | VOID,88-250 CM | | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 333 | | | | | | | | | | |
| 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 | 5619 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | SEVERAL VOIDS IN CORE | | | | | | | | | | |
| 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 | 5836 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | CORE IN POOR CONDITION | | | | | | | | | | |
| 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 | 0000 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | WORKING AND ARCHIVE HAVLES OF CORE DEPLETED DUE TO HEAVY SAMPLING | | | | | | | | | | |
| 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 | 5816 | 0 | LAKE KIVU 2 |
| 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 | 5819 | 0 | LAKE KIVU 2 |
| 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 | 5816 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | VOID,14-58 CM | | | | | | | | | | |
| 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 | 5816 | 0 | LAKE KIVU 2 |
| 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 | 0000 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | WORKING AND ARCHIVE HAVLES OF CORE DEPLETED DUE TO HEAVY SAMPLING | | | | | | | | | | |
| 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 | 2669 | 0 | LAKE KIVU 2 |
| | | | | | **COMMENTS** | | | VOID,0-18 CM | | | | | | | | | | |
| 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 | 5025 | 0 | LAKE EDWARD |
| | | | | | **COMMENTS** | | | SEC SED TYPE:SILIC-CALC OOZE | | | | | | | | | | |
| 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 | 5659 | 0 | LAKE EDWARD |
| 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 | 5279 | 0 | LAKE EDWARD |
| 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 | 5519 | 0 | LAKE EDWARD |
| | | | | | **COMMENTS** | | | VOID,0-14 CM | | | | | | | | | | |
| 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 | 5519 | 0 | LAKE EDWARD |
| | | | | | **COMMENTS** | | | SEVERAL VOIDS IN CORE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 334 | | | | | | | | | | |
| 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 | 8653 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,960-1144 CM | | | | | | | | | | |
| 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 | 2429 | 54 | |
| 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 | 3359 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,340-633 CM | | | | | | | | | | |
| 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 | 0129 | 54 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE,SILIC-CALC CLAY;VOID,425-669 AND 719-728;FLOW-IN,795-1019 CM | | | | | | | | | | |
| 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 | 4429 | 54 | |
| | | | | | | | | MARSDEN SQUARE # 335 | | | | | | | | | | |
| 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 | 4639 | 54 | |
| 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 | 5029 | 54 | |
| | | | | | **COMMENTS** | | | SECONDARY SEDIMENT TYPE,SILIC-CALC OOZE | | | | | | | | | | |
| 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 | 1522 | 54 | |
| 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 | 5632 | 54 | |

STATION DATA RETRIEVAL
DATE: 17:13:8 JUN 08,'77

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 335 | | | | | | | | | | |
| 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 | 2811 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,719-1111 CM | | | | | | | | | | |
| 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 | 6129 | 54 | |
| 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 | 6429 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,957-1163 CM | | | | | | | | | | |
| 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 | 6429 | 54 | |
| | | | | | | | | MARSDEN SQUARE # 346 | | | | | | | | | | |
| CHN | 100 | 11 | 0136 | 0000 | 15 | 711020 | 10 23.9'S | 105 30.0'W | 1 | 346.05 | 0090 | 3861. | 609. | 0000 | 15 | 3422 | 0 | |
| CHN | 100 | 11 | 0136 | 0000 | 26 | 711020 | 10 23.9'S | 105 30.0'W | 1 | 346.05 | 0090 | 3861. | 154. | 0000 | 15 | 3322 | 0 | |
| CHN | 100 | 11 | 0137 | 0000 | 15 | 711021 | 10 23.2'S | 103 48.2'W | 1 | 346.03 | 0091 | 4228. | 767. | 0000 | 10 | 1329 | 0 | |
| CHN | 100 | 11 | 0137 | 0000 | 26 | 711021 | 10 23.2'S | 103 48.2'W | 1 | 346.03 | 0091 | 4228. | 133. | 0000 | 10 | 1459 | 0 | |
| CHN | 100 | 11 | 0138 | 0000 | 15 | 711021 | 10 22.0'S | 102 38.0'W | 1 | 346.02 | 0092 | 4287. | 600. | 0000 | 10 | 1159 | 0 | |
| CHN | 100 | 11 | 0138 | 0000 | 26 | 711021 | 10 22.0'S | 102 38.0'W | 1 | 346.02 | 0092 | 4287. | 70. | 0000 | 10 | 1159 | 0 | |
| CHN | 100 | 11 | 0139 | 0000 | 15 | 711022 | 10 22.1'S | 101 2.2'W | 9 | 346.01 | 0093 | 4274. | 818. | 0000 | 10 | 3122 | 0 | |
| CHN | 100 | 11 | 0139 | 0000 | 26 | 711022 | 10 22.1'S | 101 2.2'W | 9 | 346.01 | 0093 | 4274. | 148. | 0000 | 10 | 3422 | 0 | |
| | | | | | **COMMENTS** | | | FORAM SAND WITH BASALT AND LITHIFIED SEDIMENT FRAGMENTS | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 354 | | | | | | | | | | |
| 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 | 0932 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 0931 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 0229 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 100 | 9 | 0096 | 0000 | 15 | 71 821 | 13 20.0'S | 170 35.4'E | 9 | 354.30 | 0066 | 3385. | 558. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE:VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0096 | 0000 | 26 | 71 821 | 13 20.0'S | 170 35.4'E | 9 | 354.30 | 0066 | 3385. | 123. | 0000 | 21 | 3569 | 0 | |
| CHN | 100 | 9 | 0097 | 0000 | 15 | 71 822 | 14 48.8'S | 170 44.7'E | 9 | 354.40 | 0067 | 3515. | 360. | 0000 | 21 | 0931 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE: CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 100 | 9 | 0097 | 0000 | 26 | 71 822 | 14 48.8'S | 170 44.7'E | 9 | 354.40 | 0067 | 3515. | 35. | 0000 | 21 | 3569 | 0 | |
| CHN | 100 | 9 | 0101 | 0000 | 15 | 71 824 | 15 28.6'S | 171 22.5'E | 9 | 354.51 | 0070 | 3312. | 536. | 0000 | 21 | 3931 | 0 | |
| CHN | 100 | 9 | 0101 | 0000 | 26 | 71 824 | 15 28.6'S | 171 22.5'E | 9 | 354.51 | 0070 | 3312. | 114. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0102 | 0000 | 15 | 71 824 | 15 41.6'S | 172 8.3'E | 9 | 354.52 | 0071 | 3300. | 442. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE:VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0102 | 0000 | 26 | 71 824 | 15 41.6'S | 172 8.3'E | 9 | 354.52 | 0071 | 3300. | 145. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES VOLC ASH | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 355 | | | | | | | | | | |
| CHN | 100 | 8 | 0071 | 0000 | 15 | 71 728 | 14 15.1'S | 163 53.7'E | 9 | 355.43 | 0049 | 3800. | 1018. | 0000 | 21 | 3420 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE:VOLC ASH LAYER | | | | | | | | | | |
| CHN | 100 | 8 | 0071 | 0000 | 26 | 71 728 | 14 15.1'S | 163 53.7'E | 9 | 355.43 | 0049 | 3800. | 133. | 0000 | 21 | 4339 | 0 | |
| CHN | 100 | 8 | 0072 | 0000 | 15 | 71 728 | 14 4.9'S | 164 30.0'E | 9 | 355.44 | 0050 | 3903. | 944. | 0000 | 21 | 3518 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES;LITHIFIED CARBONATE FRAGMENTS,GRADED AND CROSS BEDDED ASH | | | | | | | | | | |
| | | | | | **COMMENTS** | | | AND FORAM SAND | | | | | | | | | | |
| CHN | 100 | 8 | 0072 | 0000 | 26 | 71 728 | 14 4.9'S | 164 30.0'E | 9 | 355.44 | 0050 | 3903. | 150. | 0000 | 21 | 3511 | 0 | |
| CHN | 100 | 8 | 0074 | 0000 | 15 | 71 730 | 18 28.7'S | 166 4.8'E | 1 | 355.86 | 0051 | 4437. | 1143. | 0000 | 21 | 0967 | 0 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE,SILIC-CALC CLAY | | | | | | | | | | |
| CHN | 100 | 8 | 0074 | 0000 | 26 | 71 730 | 18 28.7'S | 166 4.8'E | 1 | 355.86 | 0051 | 4437. | 125. | 0000 | 21 | 0964 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 100 | 8 | 0075 | 0000 | 15 | 71 731 | 18 13.5'S | 166 41.7'E | 9 | 355.86 | 0052 | 4348. | 1074. | 0000 | 21 | 1629 | 0 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE,SILIC-CALC OOZE | | | | | | | | | | |
| CHN | 100 | 8 | 0075 | 0000 | 26 | 71 731 | 18 13.5'S | 166 41.7'E | 9 | 355.86 | 0052 | 4348. | 152. | 0000 | 21 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE SILIC-CALC OOZE | | | | | | | | | | |
| 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 | 0939 | 0 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE,CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 0949 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | |
| 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 | 4934 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE:VOLC ASH | | | | | | | | | | |
| 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 | 3120 | 0 | |
| 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 | 3120 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES; VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0082 | 0000 | 15 | 71 810 | 15 56.4'S | 169 41.2'E | 1 | 355.59 | 0058 | 3237. | 119. | 0000 | 21 | 9959 | 0 | |
| | | | | | **COMMENTS** | | | VOID,3-70 CM | | | | | | | | | | |
| CHN | 100 | 9 | 0082 | 0000 | 26 | 71 810 | 15 56.4'S | 169 41.2'E | 1 | 355.59 | 0058 | 3237. | 45. | 0000 | 21 | 1931 | 0 | |
| CHN | 100 | 9 | 0084 | 0000 | 15 | 71 811 | 16 16.3'S | 166 11.7'E | 9 | 355.66 | 0059 | 4490. | 862. | 0000 | 17 | 1328 | 0 | |
| CHN | 100 | 9 | 0084 | 0000 | 26 | 71 811 | 16 16.3'S | 166 11.7'E | 9 | 355.66 | 0059 | 4490. | 148. | 0000 | 17 | 6120 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES: VOLC ASH GRADED LITHIFIED FRAGMENTS | | | | | | | | | | |
| CHN | 100 | 9 | 0087 | 0000 | 15 | 71 814 | 12 50.7'S | 168 38.1'E | 9 | 355.28 | 0060 | 3473. | 855. | 0000 | 21 | 3941 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURES:VOLC ASH AND EXTENSIVE MOTTLING | | | | | | | | | | |
| CHN | 100 | 9 | 0087 | 0000 | 26 | 71 814 | 12 50.7'S | 168 38.1'E | 9 | 355.28 | 0060 | 3473. | 152. | 0000 | 21 | 3569 | 0 | |
| CHN | 100 | 9 | 0088 | 0000 | 15 | 71 815 | 13 4.5'S | 167 52.0'E | 9 | 355.37 | 0061 | 2811. | 520. | 0000 | 21 | 3568 | 0 | |
| CHN | 100 | 9 | 0088 | 0000 | 26 | 71 815 | 13 4.5'S | 167 52.0'E | 9 | 355.37 | 0061 | 2811. | 120. | 0000 | 21 | 3568 | 0 | |
| CHN | 100 | 9 | 0089 | 0000 | 15 | 71 815 | 13 33.8'S | 166 16.5'E | 9 | 355.36 | 0062 | 5851. | 285. | 0000 | 21 | 1931 | 0 | |
| CHN | 100 | 9 | 0092 | 0000 | 15 | 71 818 | 11 32.5'S | 167 34.7'E | 9 | 355.17 | 0063 | 2640. | 550. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | VOID; 0-11 CM | | | SPECIAL FEATURE; VOLCANIC ASH | | | | | | | |
| CHN | 100 | 9 | 0092 | 0000 | 26 | 71 818 | 11 32.5'S | 167 34.7'E | 9 | 355.17 | 0063 | 2640. | 152. | 0000 | 21 | 3929 | 0 | |
| CHN | 100 | 9 | 0094 | 0000 | 15 | 71 819 | 12 11.4'S | 167 13.4'E | 9 | 355.27 | 0064 | 1805. | 298. | 0000 | 21 | 3931 | 0 | |
| CHN | 100 | 9 | 0094 | 0000 | 26 | 71 819 | 12 11.4'S | 167 13.4'E | 9 | 355.27 | 0064 | 1805. | 144. | 0000 | 21 | 3327 | 0 | |
| CHN | 100 | 9 | 0095 | 0000 | 15 | 71 820 | 11 57.1'S | 169 34.1'E | 9 | 355.19 | 0065 | 3280. | 487. | 0000 | 21 | 3931 | 0 | |
| CHN | 100 | 9 | 0095 | 0000 | 26 | 71 820 | 11 57.1'S | 169 34.1'E | 9 | 355.19 | 0065 | 3280. | 143. | 0000 | 21 | 3929 | 0 | |
| CHN | 100 | 9 | 0098 | 0000 | 15 | 71 822 | 14 1.5'S | 169 51.1'E | 9 | 355.49 | 0068 | 3670. | 390. | 0000 | 21 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | SPECIAL FEATURE;VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0098 | 0000 | 26 | 71 822 | 14 1.5'S | 169 51.1'E | 9 | 355.49 | 0068 | 3670. | 147. | 0000 | 21 | 3560 | 0 | |

| 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 VOLUME | PHYSIO- GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | | SPECIAL FEATURES VOLC ASH | | | | | | | | | | |
| CHN | 100 | 9 | 0099 | 0000 | 15 | 71 823 | 14 55.41'S | 169 10.8'E | 9 | 355.49 | 0069 | 3248. | 330. | 0000 | 21 | 0931 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED TYPE; CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 100 | 9 | 0099 | 0000 | 26 | 71 823 | 14 55.41'S | 169 10.8'E | 9 | 355.49 | 0069 | 3248. | 137. | 0000 | 21 | 0931 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 356 | | | | | | | | | | |
| CHN | 100 | 8 | 0070 | 0000 | 15 | 71 727 | 10 13.5'S | 157 6.8'O | 90 | 356.07 | 0048 | 5140. | 597. | 0000 | 21 | 3148 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 365 | | | | | | | | | | |
| CHN | 43 | 1 | 0027 | 0000 | 13 | 64 427 | 17 22.0'S | 60 24.0'E | 1 | 365.70 | 0012 | 3881. | 135. | 0000 | 13 | 0329 | 41 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE; CALC-SILIC OOZE | | | | | | | | | | |
| CHN | 43 | 1 | 0028 | 0000 | 13 | 64 427 | 14 15.0'S | 62 51.0'E | 1 | 365.42 | 0013 | 3820. | 107. | 0000 | 10 | 3569 | 41 | |
| | | | | | | | | MARSDEN SQUARE # 366 | | | | | | | | | | |
| AII | 15 | 13 | 0732 | 0000 | 13 | 65 611 | 19 53.0'S | 56 48.0'E | 9 | 366.96 | 0732 | 4382. | 118. | 0000 | 10 | 0362 | 0 | |
| AII | 15 | 13 | 0733 | 0000 | 13 | 65 611 | 19 56.0'S | 55 17.0'E | 9 | 366.95 | 0733 | 4382. | 39. | 0000 | 10 | 4869 | 0 | |
| AII | 15 | 13 | 0737 | 0000 | 13 | 65 612 | 19 59.5'S | 50 6.5'E | 9 | 366.90 | 0737 | 4356. | 80. | 0000 | 6 | 0459 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE SILIC CLAY WITH DETRITUS | | | | | | | | | | |
| CHN | 43 | 1 | 0023 | 0000 | 13 | 64 423 | 17 27.0'S | 58 5.5'E | 1 | 366.78 | 0011 | 4038. | 127. | 0000 | 13 | 3329 | 41 | |
| CHN | 43 | 1 | 0030 | 0000 | 13 | 64 430 | 11 30.0'S | 58 24.0'E | 1 | 366.18 | 0014 | 4095. | 262. | 0000 | 10 | 3469 | 41 | |
| 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 | 0329 | 41 | |
| | | | | | **COMMENTS** | | | PRIM SED TYPE; CALC-SILIC OOZE | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 367 | | | | | | | | | | |
| 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 | 0000 | 0 | ONE JAR |
| 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 | 0000 | 0 | 1 VIAL |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT CALC SILIC OOZE | | | | | | | | | | |
| CHN | 99 | 8 | 0063 | 0000 | 15 | 7012 2 | 10 53.0'S | 47 37.7'E | 9 | 367.07 | 0044 | 4005. | 858. | 0000 | 6 | 3839 | 0 | |
| CHN | 99 | 8 | 0063 | 0000 | 26 | 7012 2 | 10 53.0'S | 47 37.7'E | 9 | 367.07 | 0044 | 4005. | 47. | 0000 | 6 | 3359 | 0 | |
| CHN | 99 | 8 | 0064 | 0000 | 15 | 7012 3 | 13 18.2'S | 46 58.5'E | 9 | 367.36 | 0045 | 3243. | 693. | 0000 | 6 | 3819 | 0 | |
| CHN | 99 | 8 | 0064 | 0000 | 26 | 7012 3 | 13 18.2'S | 46 58.5'E | 9 | 367.36 | 0045 | 3243. | 107. | 0000 | 6 | 3731 | 0 | |
| CHN | 99 | 8 | 0065 | 0000 | 15 | 7012 5 | 12 59.1'S | 41 36.7'E | 9 | 367.21 | 0046 | 3540. | 896. | 0000 | 20 | 3721 | 0 | |
| | | | | | **COMMENTS** | | | FLOW-IN; 635-846 CM | | | | | | | | | | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 367 | | | | | | | | | | |
| CHN | 99 | 8 | 0065 | 0000 | 26 | 7012 5 | 12 59.1'S | 41 36.7'E | 9 | 367.21 | 0046 | 3540. | 69. | 0000 | 20 | 3339 | 0 | |
| CHN | 99 | 8 | 0066 | 0000 | 15 | 7012 6 | 13 11.3'S | 41 23.9'E | 9 | 367.31 | 0047 | 2350. | 875. | 0000 | 20 | 3359 | 0 | |
| | | | | | **COMMENTS** | | WESTERN EDGE OF NORTH MADAGASCAR BASIN JUST OFF COAST OF MOZAMBIQUE | | | | | | | | | | | |
| | | | | | **COMMENTS** | | FLOW-IN,650-875 CM | | | | | | | | | | | |
| CHN | 99 | 8 | 0066 | 0000 | 26 | 7012 6 | 13 11.3'S | 41 23.9'E | 9 | 367.31 | 0047 | 2350. | 158. | 0000 | 20 | 3359 | 0 | |
| CHN | 99 | 8 | 0067 | 0000 | 15 | 7012 7 | 14 53.3'S | 45 40.6'E | 9 | 367.45 | 0048 | 2941. | 804. | 0000 | 20 | 2329 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,659-804 CM | | | | | | | | | | | |
| CHN | 99 | 8 | 0067 | 0000 | 26 | 7012 7 | 14 53.3'S | 45 40.6'E | 9 | 367.45 | 0048 | 2941. | 67. | 0000 | 20 | 3429 | 0 | |
| CHN | 99 | 8 | 0068 | 0000 | 15 | 7012 9 | 16 4.2'S | 41 33.2'E | 9 | 367.61 | 0049 | 2758. | 840. | 0000 | 12 | 3731 | 0 | |
| | | | | | **COMMENTS** | | FLOW-IN,594-840 CM | | | | | | | | | | | |
| CHN | 99 | 8 | 0068 | 0000 | 26 | 7012 9 | 16 4.2'S | 41 33.2'E | 9 | 367.61 | 0049 | 2758. | 183. | 0000 | 12 | 4831 | 0 | |
| CHN | 99 | 8 | 0069 | 0000 | 15 | 701211 | 15 25.6'S | 41 33.6'E | 9 | 367.51 | 0050 | 2085. | 161. | 0000 | 20 | 7828 | 0 | |
| | | | | | **COMMENTS** | | MOZAMBIQUE CHANNEL | | | | | | | | | | | |
| | | | | | **COMMENTS** | | SPECIAL FEATURES;MN;VOLC GLASS;MINERAL GRAINS;ALL GRADED | | | | | | | | | | | |
| CHN | 99 | 8 | 0070 | 0000 | 15 | 701213 | 11 30.8'S | 41 50.1'E | 9 | 367.11 | 0051 | 2151. | 860. | 0000 | 20 | 3039 | 0 | |
| | | | | | **COMMENTS** | | MOZAMBIQUE CHANNEL | | | | | | | | | | | |
| | | | | | **COMMENTS** | | SEC SED TYPE,CALC-SILIC OOZE;FLOW-IN,35-860 CM | | | | | | | | | | | |
| CHN | 99 | 8 | 0070 | 0000 | 26 | 701213 | 11 30.8'S | 41 50.1'E | 9 | 367.11 | 0051 | 2151. | 35. | 0000 | 20 | 3329 | 0 | |
| | | | | | | | | MARSDEN SQUARE # 370 | | | | | | | | | | |
| CHN | 99 | 4 | 0048 | 0000 | 15 | 70 613 | 11 5.0'S | 10 44.0'E | 9 | 370.10 | 0034 | 3961. | 1122. | 0000 | 10 | 4229 | 54 | |
| | | | | | **COMMENTS** | | FLOW-IN,1013-1122 CM | | | | | | | | | | | |
| CHN | 99 | 4 | 0048 | 0000 | 26 | 70 613 | 11 5.0'S | 10 44.0'E | 9 | 370.10 | 0034 | 3961. | 188. | 0000 | 10 | 3439 | 54 | |
| CHN | 99 | 4 | 0049 | 0000 | 15 | 70 616 | 19 .7'S | 10 4.0'E | 1 | 370.90 | 0035 | 4130. | 973. | 0000 | 13 | 0629 | 54 | |
| | | | | | **COMMENTS** | | PRIM SED TYPE,SILIC-CALC CLAY;FLOW-IN,800-973 CM | | | | | | | | | | | |
| CHN | 99 | 4 | 0049 | 0000 | 26 | 70 616 | 19 .7'S | 10 4.0'E | 1 | 370.90 | 0035 | 4130. | 137. | 0000 | 13 | 0429 | 54 | |
| | | | | | **COMMENTS** | | PRIMARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 371 | | | | | | | | | | |
| CHN | 99 | 4 | 0051 | 0000 | 15 | 70 617 | 19 58.4'S | 9 21.8'E | 1 | 371.99 | 0037 | 2324. | 949. | 0000 | 13 | 3329 | 54 | |
| | | | | | **COMMENTS** | | WALVIS RIDGE A CENTRAL PLATEAU | | | | | | | | | | | |
| | | | | | **COMMENTS** | | FLOW-IN,759-931 CM | | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 374 | | | | | | | | | | |
| 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 | 4329 | 53 | |
| 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 | 4869 | 53 | |
| CHN | 115 | 5 | 0089 | 0000 | 15 | 74 410 | 26 51.2'S | 27 23.4'W | 9 | 374.67 | 0048 | 5933. | 891. | 0000 | 10 | 5130 | 53 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 374 | | | | | | | | | | | |
| CHN | 115 | 5 | 0089 | 0000 | 26 | 74 410 | 26 51.2'S | 27 23.4'W | 9 | 374.67 | 0048 | 5933. | 158. | 0000 | 10 | 1620 | 53 | |
| CHN | 115 | 5 | 0090 | 0000 | 13 | 74 411 | 25 17.1'S | 28 22.2'W | 9 | 374.58 | 0049 | 5355. | 141. | 0000 | 10 | 1439 | 0 | |
| CHN | 115 | 5 | 0091 | 0000 | 15 | 74 411 | 24 12.8'S | 29 6.4'W | 9 | 374.49 | 0050 | 5460. | 173. | 0000 | 10 | 8140 | 53 | |
| | | | | | | | MARSDEN SQUARE # 375 | | | | | | | | | | | |
| AII | 60 | 2 | 0007 | 0000 | 15 | 71 226 | 26 39.9'S | 34 .4'W | 9 | 375.64 | 0007 | 4626. | 164. | 0000 | 10 | 1937 | 0 | |
| AII | 60 | 2 | 0009 | 0000 | 15 | 71 228 | 29 7.5'S | 34 35.9'W | 9 | 375.94 | 009A | 3273. | 223. | 0000 | 13 | 3327 | 41 | |
| AII | 60 | 2 | 0009 | 0000 | 13 | 71 228 | 29 3.4'S | 34 42.3'W | 9 | 375.94 | 009B | 2990. | 273. | 0000 | 13 | 3329 | 0 | |
| AII | 60 | 2 | 0010 | 0000 | 15 | 71 228 | 29 39.6'S | 34 40.0'W | 9 | 375.94 | 0010 | 1840. | 120. | 0000 | 13 | 3329 | 41 | |
| CHN | 115 | 5 | 0092 | 0000 | 13 | 74 412 | 24 .5'S | 30 10.4'W | 9 | 375.40 | 0051 | 5313. | 118. | 0000 | 10 | 1943 | 0 | |
| CHN | 115 | 5 | 0093 | 0000 | 13 | 74 412 | 23 56.6'S | 31 12.0'W | 9 | 375.31 | 0052 | 5179. | 121. | 0000 | 10 | 1629 | 53 | |
| CHN | 115 | 5 | 0094 | 0000 | 13 | 74 413 | 23 49.0'S | 33 13.5'W | 9 | 375.33 | 0053 | 4757. | 117. | 0000 | 10 | 1239 | 53 | |
| CHN | 115 | 5 | 0095 | 0000 | 13 | 74 414 | 23 39.2'S | 35 13.6'W | 9 | 375.35 | 0054 | 4153. | 124. | 0000 | 6 | 3166 | 53 | |
| CHN | 115 | 5 | 0096 | 0000 | 13 | 74 414 | 23 27.5'S | 37 4.1'W | 9 | 375.37 | 0055 | 3944. | 110. | 0000 | 6 | 3833 | 41 | |
| CHN | 115 | 5 | 0097 | 0000 | 13 | 74 415 | 23 21.6'S | 39 1.9'W | 9 | 375.39 | 0056 | 3206. | 5. | 0000 | 6 | 0000 | 53 | |
| | | | | | **COMMENTS** | | SAMPLE STORED IN JAR | | | | | | | | | | | |
| CHN | 115 | 6 | 0111 | 0000 | 15 | 74 430 | 29 57.8'S | 35 33.8'W | 9 | 375.95 | 0067 | 2195. | 716. | 0000 | 13 | 3359 | 53 | |
| CHN | 115 | 6 | 0112 | 0000 | 15 | 74 430 | 29 57.9'S | 35 33.6'W | 1 | 375.95 | 0068 | 2192. | 193. | 0000 | 13 | 3359 | 53 | |
| 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 | 3359 | 53 | |
| 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 | 3359 | 53 | |
| 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 | 3359 | 58 | |
| 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 | 3729 | 0 | |
| 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 | 3739 | 0 | |
| 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 | 3359 | 0 | |
| 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 | 3325 | 0 | |
| 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 | 3350 | 0 | |
| | | | | | **COMMENTS** | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | | |
| 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 | 3329 | 0 | |
| 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 | 3729 | 40 | |
| 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 | 3359 | 0 | |
| 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 | 3339 | 0 | |
| 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 | 3359 | 0 | |
| 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 | 3731 | 0 | |
| 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 | 3739 | 0 | |
| 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 | 3730 | 53 | |
| | | | | | **COMMENTS** | | FLOW IN 13-276 CM | | | | | | | | | | | |
| 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 | 3739 | 58 | |
| 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 | 3739 | 58 | |
| 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 | 3359 | 0 | |
| 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 | 3359 | 0 | |
| CHN | 115 | 6 | 0131 | 0000 | 15 | 74 5 6 | 30 .1'S | 35 33.7'W | 1 | 375.95 | 0086 | 2090. | 740. | 0000 | 13 | 3359 | 0 | |
| CHN | 115 | 6 | 0131 | 0000 | 26 | 74 5 6 | 30 .1'S | 35 33.7'W | 1 | 375.95 | 0086 | 2090. | 36. | 0000 | 13 | 3739 | 0 | |
| 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 | 0000 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | NO PENETRATION: MN NODULES AND CRUST SCRAPED UP | | | | | | | | | | | |
| | | | | | | | | | | MARSDEN SQUARE # 376 | | | | | | | | |
| CHN | 115 | 5 | 0098 | 0000 | 13 | 74 415 | 23 5.8'S | 40 9.1'W | 9 | 376.30 | 0057 | 2595. | 105. | 0000 | 4 | 3821 | 53 | |
| CHN | 115 | 5 | 0099 | 0000 | 13 | 74 416 | 24 16.8'S | 41 37.9'W | 9 | 376.41 | 0058 | 1922. | 45. | 0000 | 4 | 3359 | 53 | |
| CHN | 115 | 6 | 0102 | 0000 | 15 | 74 424 | 29 20.8'S | 40 5.8'W | 1 | 376.90 | 0059 | 4188. | 753. | 0000 | 13 | 4333 | 53 | |
| CHN | 115 | 6 | 0102 | 0000 | 26 | 74 424 | 29 20.8'S | 40 5.8'W | 1 | 376.90 | 0059 | 4188. | 52. | 0000 | 13 | 3353 | 53 | |
| | | | | | | | | | | MARSDEN SQUARE # 402 | | | | | | | | |
| AII | 15 | 13 | 0735 | 0000 | 13 | 65 612 | 20 2.0'S | 52 29.0'E | 9 | 402.02 | 0735 | 4936. | 50. | 0000 | 10 | 3352 | 0 | |
| | | | | | | | | | | MARSDEN SQUARE # 403 | | | | | | | | |
| AII | 15 | 13 | 0744 | 0000 | 13 | 65 615 | 24 54.0'S | 48 11.0'E | 9 | 403.48 | 0744 | 4039. | 138. | 0000 | 6 | 0059 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE HLY CALC SILIC CLAY | | | | | | | | | | | |
| AII | 15 | 13 | 0745 | 0000 | 13 | 65 615 | 24 59.0'S | 47 45.0'E | 9 | 403.47 | 0745 | 3269. | 22. | 0000 | 4 | 3969 | 0 | |
| AII | 15 | 13 | 0746 | 0000 | 13 | 65 616 | 25 3.1'S | 47 26.4'E | 9 | 403.57 | 0746 | 1307. | 72. | 0000 | 4 | 0059 | 0 | |
| | | | | | **COMMENTS** | | PRIMARY AND SECONDARY SEDIMENT TYPE CALC-SILIC OOZE | | | | | | | | | | | |
| AII | 15 | 14 | 0747 | 0000 | 13 | 65 616 | 26 1.0'S | 44 32.0'E | 9 | 403.64 | 0747 | 1286. | 0. | 0000 | 4 | 0000 | 0 | ONE JAR |
| AII | 15 | 14 | 0748 | 0000 | 13 | 65 617 | 26 1.0'S | 43 57.0'E | 9 | 403.63 | 0748 | 2943. | 78. | 0000 | 6 | 3059 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SEDIMENT TYPE CALC SILIC OOZE | | | | | | | | | | | |
| AII | 15 | 14 | 0751 | 0000 | 13 | 65 618 | 26 7.0'S | 41 16.0'E | 9 | 403.61 | 0751 | 4243. | 60. | 0000 | 6 | 4452 | 0 | |
| | | | | | | | | | | MARSDEN SQUARE # 404 | | | | | | | | |
| AII | 15 | 14 | 0753 | 0000 | 13 | 65 618 | 25 55.0'S | 38 53.0'E | 9 | 404.58 | 0753 | 3884. | 80. | 0000 | 6 | 4459 | 0 | |
| AII | 15 | 14 | 0755 | 0000 | 13 | 65 619 | 25 56.5'S | 36 42.0'E | 9 | 404.56 | 0755 | 1948. | 20. | 0000 | 6 | 0000 | 0 | 1 JAR |
| AII | 15 | 14 | 0756 | 0000 | 13 | 65 619 | 25 54.0'S | 36 9.0'E | 9 | 404.56 | 0756 | 1840. | 63. | 0000 | 6 | 3359 | 0 | |
| AII | 15 | 14 | 0758 | 0000 | 13 | 65 620 | 25 56.0'S | 34 45.0'E | 9 | 404.54 | 0758 | 792. | 26. | 0000 | 4 | 3869 | 0 | |
| | | | | | | | | | | MARSDEN SQUARE # 406 | | | | | | | | |
| CHN | 115 | 2 | 0020 | 0000 | 15 | 731229 | 22 16.0'S | 12 32.3'E | 9 | 406.22 | 0012 | 1017. | 620. | 0000 | 4 | 3350 | 0 | |
| CHN | 115 | 2 | 0020 | 0000 | 26 | 731229 | 22 16.0'S | 12 32.3'E | 9 | 406.22 | 0012 | 1017. | 82. | 0000 | 4 | 3350 | 0 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 406 | | | | | | | | | | | |
| CHN | 115 | 2 | 0021 | 0000 | 15 | 731229 | 23 31.4'S | 12 14.9'E | 9 | 406.32 | 0013 | 2132. | 510. | 0000 | 6 | 3560 | 0 | |
| CHN | 115 | 2 | 0021 | 0000 | 26 | 731229 | 23 31.4'S | 12 14.9'E | 9 | 406.32 | 0013 | 2132. | 76. | 0000 | 6 | 3569 | 0 | |
| CHN | 115 | 2 | 0022 | 0000 | 14 | 731230 | 22 30.0'S | 12 8.4'E | 1 | 406.22 | 0014 | 2429. | 53. | 0000 | 6 | 3560 | 0 | |
| | | | | | **COMMENTS** | | | CORE REPRESENTS 3 SUCCESSIVE PENETRATIONS | | | | | | | | | | |
| 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 | 3350 | 0 | |
| | | | | | **COMMENTS** | | | CORE REPRESENTS 10 SUCCESSIVE PENETRATIONS | | | | | | | | | | |
| 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 | 3569 | 0 | |
| 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 | 3359 | 0 | |
| CHN | 115 | 2 | 0024 | 0000 | 15 | 74 1 2 | 25 .3'S | 10 40.3'E | 1 | 406.50 | 0017 | 4254. | 872. | 0000 | 6 | 3032 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED TYPE NANNO OOZE | | | | | | | | | | |
| CHN | 115 | 2 | 0024 | 0000 | 26 | 74 1 2 | 25 .3'S | 10 40.3'E | 1 | 406.50 | 0017 | 4254. | 100. | 0000 | 6 | 3530 | 0 | |
| | | | | | **COMMENTS** | | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | |
| | | | | | | | MARSDEN SQUARE # 407 | | | | | | | | | | | |
| CHN | 99 | 4 | 0050 | 0000 | 15 | 70 617 | 20 49.0'S | 9 56.3'E | 1 | 407.09 | 0036 | 2640. | 1038. | 0000 | 13 | 3329 | 54 | |
| | | | | | **COMMENTS** | | | FLOW-IN,798-1038 CM | | | | | | | | | | |
| CHN | 99 | 4 | 0050 | 0000 | 26 | 70 617 | 20 49.0'S | 9 56.3'E | 1 | 407.09 | 0036 | 2640. | 177. | 0000 | 13 | 0329 | 54 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE | | | | | | | | | | |
| CHN | 99 | 4 | 0052 | 0000 | 15 | 70 619 | 21 44.8'S | 8 30.0'E | 1 | 407.18 | 0038 | 4331. | 931. | 0000 | 13 | 3721 | 54 | WALVIS RDG |
| | | | | | **COMMENTS** | | | SOUTH SOMALI BASIN SITE II | | | | | | | | | | |
| CHN | 99 | 4 | 0052 | 0000 | 26 | 70 619 | 21 44.8'S | 8 30.0'E | 1 | 407.18 | 0038 | 4331. | 184. | 0000 | 13 | 0039 | 54 | WALVIS RDG |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE CALC.SILIC OOZE,SECONDARY,CALC.SILIC CLAY | | | | | | | | | | |
| 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 | 3139 | 0 | |
| 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 | 1330 | 0 | |
| 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 | 1329 | 0 | |
| 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 | 3339 | 0 | |
| | | | | | | | 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 | 3359 | 53 | |
| 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 | 3359 | 53 | |
| 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 | 3359 | 53 | |
| 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 | 3350 | 53 | |
| | | | | | **COMMENTS** | | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | |
| | | | | | | | 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 | 3359 | 53 | |
| 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 | 0329 | 53 | |

```
***************        STATION DATA RETRIEVAL        ***************                                  PAGE 53
***************        DATE: 001017:38 JUN 08        ***************                                  **WHOI**
***************        STATION DATA RETRIEVAL        ***************                                  PAGE 1803417591
***************        DATE:
```

| 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 VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **COMMENTS** | | PRIMARY SED TYPE NANNO OOZE | | | | | | | | | | | |
| | | | | | | | 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 | 3339 | 53 | |
| 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 | 3359 | 53 | |
| 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 | 3512 | 53 | |
| 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 | 3352 | 53 | |
| 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 | 3322 | 53 | |
| 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 | 3359 | 53 | |
| | | | | | | | MARSDEN SQUARE # 411 | | | | | | | | | | | |
| 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 | 3329 | 41 | |
| 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 | 3329 | 0 | |
| 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 | 1129 | 0 | VOID 0-80CM |
| CHN | 115 | 6 | 0104 | 0000 | 15 | 74 426 | 30 13.8'S | 39 14.6'W | 1 | 411.09 | 0060 | 4310. | 547. | 0000 | 13 | 1863 | 53 | |
| CHN | 115 | 6 | 0104 | 0000 | 26 | 74 426 | 30 13.8'S | 39 14.6'W | 1 | 411.09 | 0060 | 4310. | 85. | 0000 | 13 | 1422 | 53 | |
| | | | | | **COMMENTS** | | PILOT CORE REPENETRATION SUSPECTED | | | | | | | | | | | |
| CHN | 115 | 6 | 0105 | 0000 | 15 | 74 426 | 30 15.5'S | 39 5.8'W | 1 | 411.09 | 0061 | 4181. | 819. | 0000 | 13 | 3133 | 53 | |
| CHN | 115 | 6 | 0105 | 0000 | 26 | 74 426 | 30 15.5'S | 39 5.8'W | 1 | 411.09 | 0061 | 4181. | 151. | 0000 | 13 | 4630 | 53 | |
| | | | | | **COMMENTS** | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | | |
| CHN | 115 | 6 | 0106 | 0000 | 15 | 74 426 | 30 24.6'S | 38 58.4'W | 9 | 411.08 | 0062 | 4065. | 712. | 0000 | 13 | 3132 | 53 | |
| | | | | | **COMMENTS** | | MN PAVEMENT FOUND 565-573 CM | | | | | | | | | | | |
| CHN | 115 | 6 | 0106 | 0000 | 26 | 74 426 | 30 24.6'S | 38 58.4'W | 9 | 411.08 | 0062 | 4065. | 148. | 0000 | 13 | 3352 | 53 | |
| | | | | | **COMMENTS** | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | | |
| CHN | 115 | 6 | 0108 | 0000 | 15 | 74 429 | 30 .0'S | 35 33.3'W | 1 | 411.05 | 0064 | 2100. | 847. | 0000 | 13 | 3359 | 53 | |
| CHN | 115 | 6 | 0109 | 0000 | 15 | 74 429 | 30 .3'S | 35 31.5'W | 1 | 411.05 | 0065 | 2343. | 523. | 0000 | 13 | 3739 | 53 | |
| CHN | 115 | 6 | 0109 | 0000 | 26 | 74 429 | 30 .3'S | 35 31.5'W | 1 | 411.05 | 0065 | 2343. | 5. | 0000 | 13 | 0000 | 53 | |
| | | | | | **COMMENTS** | | REMAINS OF WASHED CORE - STORED IN VIAL | | | | | | | | | | | |
| CHN | 115 | 6 | 0110 | 0000 | 15 | 74 430 | 29 59.8'S | 35 34.4'W | 1 | 411.05 | 0066 | 2158. | 316. | 0000 | 13 | 7329 | 0 | |
| CHN | 115 | 6 | 0137 | 0000 | 15 | 74 5 9 | 30 55.0'S | 38 4.3'W | 1 | 411.08 | 0088 | 2941. | 704. | 0000 | 13 | 3029 | 53 | |
| | | | | | **COMMENTS** | | SECONDARY SED TYPE NANNO OOZE | | | | | | | | | | | |
| CHN | 115 | 6 | 0137 | 0000 | 26 | 74 5 9 | 30 55.0'S | 38 4.3'W | 1 | 411.08 | 0088 | 2941. | 128. | 0000 | 13 | 3332 | 53 | |
| 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 | 3322 | 53 | |
| | | | | | **COMMENTS** | | PRIMARY SED TYPE NANNO OOZE | | | | | | | | | | | |
| 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 | 3329 | 0 | |
| 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 | 3350 | 0 | |
| CHN | 115 | 6 | 0141 | 0000 | 15 | 74 510 | 30 49.5'S | 38 25.8'W | 1 | 411.08 | 0091 | 3576. | 558. | 0000 | 13 | 3322 | 53 | |
| CHN | 115 | 6 | 0141 | 0000 | 26 | 74 510 | 30 49.5'S | 38 25.8'W | 1 | 411.08 | 0091 | 3576. | 112. | 0000 | 13 | 3340 | 53 | |
| | | | | | **COMMENTS** | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | | |
| CHN | 115 | 6 | 0144 | 0000 | 15 | 74 510 | 30 25.7'S | 38 50.3'W | 1 | 411.08 | 0092 | 3934. | 734. | 0000 | 13 | 3352 | 58 | |

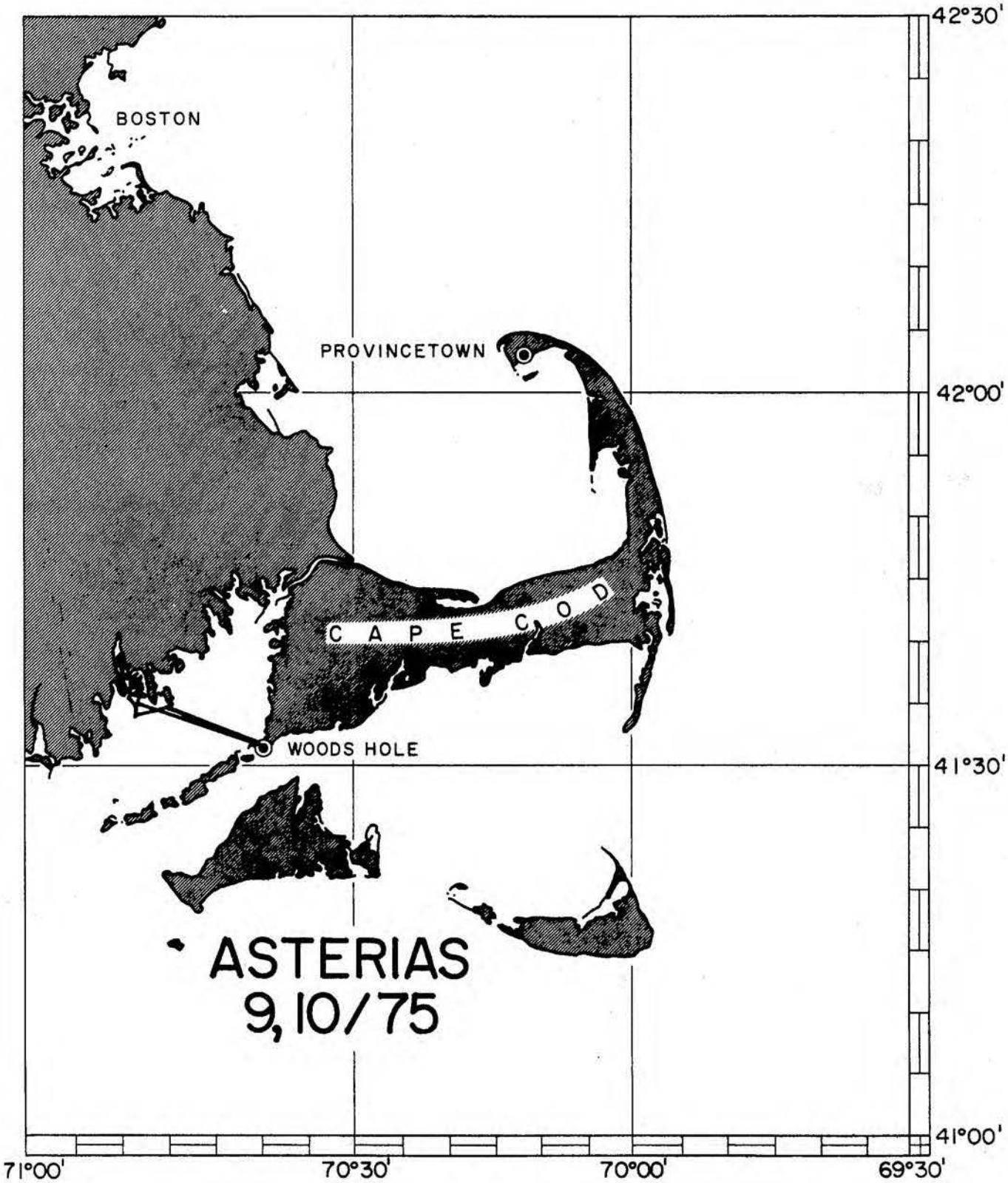
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMBDA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MARSDEN SQUARE # 411 | | | | | | | | | | | |
| CHN | 115 | 6 | 0144 | 0000 | 26 | 74 510 | 30 25.7'S | 38 50.3'W | 1 | 411.08 | 0092 | 3934. | 0. | 0080 | 13 | 3339 | 58 | |
| | | | | | | | MARSDEN SQUARE # 412 | | | | | | | | | | | |
| 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 | 3329 | 0 | |
| 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 | 6962 | 0 | |
| | | | | | | | 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 | 4433 | 0 | |
| | | | | | | | MARSDEN SQUARE # 438 | | | | | | | | | | | |
| AII | 15 | 15 | 0766 | 0000 | 13 | 65 7 3 | 32 .0'S | 55 7.0'E | 9 | 438.25 | 0766 | 4417. | 32. | 0000 | 14 | 4359 | 0 | |
| | | | | | | | 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 | 4432 | 0 | |
| 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 | 3359 | 0 | |
| | | | | | | | 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 | 3359 | 0 | |
| | | | | | | | 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 | 3350 | 53 | |
| CHN | 115 | 5 | 0058 | 0000 | 26 | 74 325 | 33 57.1'S | 13 34.0'E | 9 | 442.33 | 0037 | 4448. | 98. | 0000 | 10 | 3352 | 53 | |
| | | | | | | | 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 | 3863 | 53 | |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MARSDEN SQUARE # 443 | | | | | | | | | | |
| CHN | 115 | 5 | 0060 | 0000 | 26 | 74 327 | 34 4.7'S | 6 55.0'E | 9 | 443.46 | 0038 | 5260. | 160. | 0000 | 10 | 1860 | 53 | |
| | | | | | **COMMENTS** | | | PILOT CORE REBOUND SUSPECTED | | | | | | | | | | |
| | | | | | | | | 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 | 3569 | 53 | |
| CHN | 115 | 4 | 0032 | 0000 | 26 | 74 217 | 41 1.8'S | 14 41.3'E | 9 | 478.14 | 0024 | 4347. | 146. | 0000 | 10 | 3559 | 53 | |
| | | | | | | | | MARSDEN SQUARE # 480 | | | | | | | | | | |
| CHN | 115 | 4 | 0036 | 0000 | 15 | 74 224 | 54 42.1'S | 2 5.1'W | 9 | 480.42 | 0027 | 3140. | 1135. | 0000 | 15 | 5520 | 41 | |
| | | | | | **COMMENTS** | | | PUMICE FRAGS FOUND SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 4 | 0036 | 0000 | 26 | 74 224 | 54 42.1'S | 2 5.1'W | 9 | 480.42 | 0027 | 3140. | 91. | 0000 | 15 | 5552 | 41 | |
| 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 | 0000 | 0 | 0 |
| | | | | | **COMMENTS** | | | ONLY TRACE OF SEDIMENT RECOVERED | | | | | | | | | | |
| | | | | | | | | MARSDEN SQUARE # 515 | | | | | | | | | | |
| CHN | 115 | 4 | 0034 | 0000 | 15 | 74 222 | 51 .0'S | 5 19.8'E | 1 | 515.15 | 0025 | 3788. | 141. | 0000 | 15 | 5360 | 53 | |
| | | | | | **COMMENTS** | | | CORE DISTURBED THROUGHOUT AS A RESULT OF PRE-TRIP | | | | | | | | | | |
| CHN | 115 | 4 | 0035 | 0000 | 15 | 74 223 | 53 36.0'S | 0 6.0'E | 1 | 515.30 | 0026 | 2643. | 1190. | 0000 | 15 | 5550 | 41 | |
| | | | | | **COMMENTS** | | | PUMICE FRAGS FOUND SCATTERED THROUGHOUT | | | | | | | | | | |
| CHN | 115 | 4 | 0035 | 0000 | 26 | 74 223 | 53 36.0'S | 0 6.0'E | 1 | 515.30 | 0026 | 2643. | 61. | 0000 | 15 | 5550 | 41 | |
| 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 | 5960 | 41 | |
| | | | | | **COMMENTS** | | | CORE POSSIBLY DISTURBED DUE TO SPINNING MAGNETOMETER | | | | | | | | | | |
| 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 | 5960 | 41 | |
| 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 | 5550 | 41 | |
| | | | | | **COMMENTS** | | | PUMICE FRAGS SCATTERED THROUGHOUT | | | | | | | | | | |
| 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 | 5960 | 41 | |
| | | | | | **COMMENTS** | | | PUMICE FRAGS SCATTERED THROUGHOUT | | | | | | | | | | |

THERE WERE 1524 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5


42°30'
BOSTON
PROVINCETOWN
42°00'
CAPE COD
WOODS HOLE
41°30'
ASTERIAS
9,10/75
41°00'
71°00'
70°30'
70°00'
69°30'

```
***************          STATION DATA RETRIEVAL          ***************                                    PAGE 1
***************          DATE: 17:48 JUN 03,'77          ***************                                    **WHOI**
                                                                                                  CORE
                                                                                                  LENGTH DREDGE          ROCK
                                                                                       MARS.      OR     OR      PHYSIO.  OR
                                SAMPLE  DE-  DATE                                FIX   DEN   CORE OR  END    SAMPLE  GRAPHIC  SED.  VITA
SHIP CRUISE LEG STATION NUMBER VICE YRMODA   LATITUDE LONGITUDE TYPE SQUARE NUMBER DEPTH DEPTH VOLUME PROV.   TYPE  CODE REMARKS

AST    9    75  0024    0000    13   75 915  41 32.3'N  70 54.3'W  1  152.10 0001      6.  112.  0000   23      6265  0
                                **COMMENTS**          POST CORING OXIDATION GENERALLY APPARENT IN MOST NEW BEDFORD CORES
AST    9    75  0052    0000    13   75 916  41 36.5'N  70 55.6'W  1  152.10 0003      4.   34.  0000   23      6865  0
AST    9    75  0067    0000    13   75 917  41 36.2'N  70 53.6'W  1  152.10 0004      9.   88.  0000   23      6865  0
AST    9    75  0078    0000    13   75 917  41 37.0'N  70 54.1'W  1  152.10 0006      9.   70.  0000   23      6865  0
AST    9    75  0080    0000    13   75 919  41 38.3'N  70 55.0'W  1  152.10 0008      8.   68.  0000   23      6265  0
                                **COMMENTS**          TOP PORTION OF ALUMINUM BEVERAGE CONTAINER RECOVERED
```

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:48 JUN 03,'77 ********** **WHOI**

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AST | 10 | 75 | 0081 | 0000 | 13 | 751009 | 41 39.1'N | 70 55.2'W | 1 | 152.10 | 0009 | 5. | 119. | 0000 | 23 | 6838 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | |
| AST | 10 | 75 | 0083 | 0000 | 13 | 751009 | 41 38.7'N | 70 55.1'W | 1 | 152.10 | 0010 | 3. | 23. | 0000 | 23 | 8665 | 0 | |
| AST | 10 | 75 | 0084 | 0000 | 13 | 751009 | 41 38.6'N | 70 54.8'W | 1 | 152.10 | 0011 | 3. | 123. | 0000 | 23 | 6865 | 0 | |
| AST | 10 | 75 | 0085 | 0000 | 13 | 751009 | 41 38.9'N | 70 55.2'W | 1 | 152.10 | 0012 | 5. | 39. | 0000 | 23 | 6265 | 0 | |
| AST | 10 | 75 | 0086 | 0000 | 13 | 751009 | 41 38.7'N | 70 55.3'W | 1 | 152.10 | 0013 | 11. | 63. | 0000 | 23 | 8634 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | |
| AST | 10 | 75 | 0087 | 0000 | 13 | 751009 | 41 38.5'N | 70 55.2'W | 1 | 152.10 | 0014 | 10. | 52. | 0000 | 23 | 6821 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SEDIMENT TYPE IS SILTY/SANDY | | | | | | | | | | |
| AST | 10 | 75 | 0092 | 0000 | 13 | 751010 | 41 32.8'N | 70 54.3'W | 1 | 152.10 | 0016 | 13. | 79. | 0000 | 23 | 8661 | 0 | |
| AST | 10 | 75 | 0097 | 0000 | 13 | 751010 | 41 33.5'N | 70 53.9'W | 1 | 152.10 | 0017 | 13. | 87. | 0000 | 23 | 8668 | 0 | |
| AST | 10 | 75 | 0099 | 0000 | 13 | 751010 | 41 33.5'N | 70 52.7'W | 1 | 152.10 | 0018 | 12. | 134. | 0000 | 23 | 6265 | 0 | |
| AST | 10 | 75 | 0100 | 0000 | 13 | 751010 | 41 33.9'N | 70 52.1'W | 1 | 152.10 | 0019 | 12. | 94. | 0000 | 23 | 6865 | 0 | |

********** STATION DATA RETRIEVAL ********** 
********** DATE: 17:48 JUN 03,'77 ********** **WHOI**

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AST | 7 | 76 | 0108 | 0000 | 13 | 76 7 7 | 41 32.0'N | 70 46.2'W | 1 | 152.10 | 0020 | 15. | 140. | 0000 | 23 | 8668 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8668 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8665 | 0 | |
| 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 | 8135 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS SLIGHTLY SILIC | | | | | | | | | | |
| 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 | 8835 | 0 | |
| | | | | | **COMMENTS** | | | BOTH SED. TYPES ARE SLIGHTLY SILIC | | | | | | | | | | |

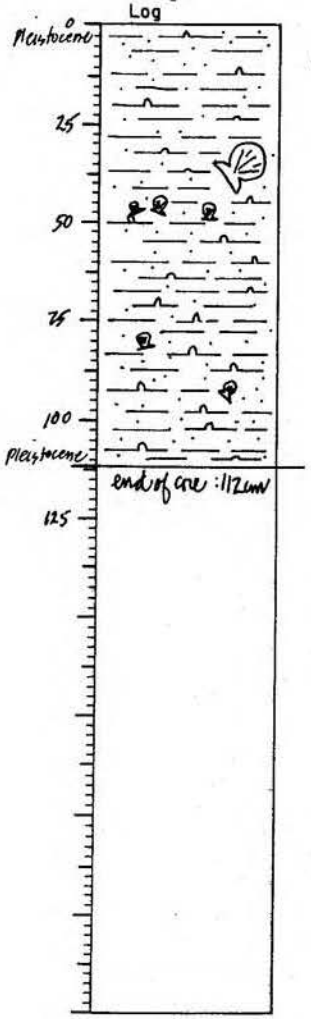
083

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 9-75 Leg — Sta. 24 Core No. 1GC
Total Length 112 cm. Lat. 41°32.31'N Long. 70°54.30'W Depth 6.4 meters.
Core condition EXCELLENT Date Described 7 June 76 by [illegible].
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




### Detailed Description

0-112
SILIC CLAY/DETRITUS GRADES TO HIGHLY SILIC CLAY/ DETRITUS
5 Y 3/2 dark olive gray
a few gradational color zones found throughout; a faint, "rusty" brownish-yellow zone 16-21 cm; also a darker gray zone surrounding crushed scallop shell intrudes 30-40 cm
firm, quite silty lutite with a number of various pelecypod shell fragments and beds of shell hash found throughout: large scallop shell 33-38 cm; scattered fragments 40-44 cm, shell hash 45-47 cm; small bits and fragments scattered 50-85 cm

end of core

084

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

Ship: ASTERIAS Core No. 1 GC
Expedition 9-75 Station No. 24
Leg No. _____ Total Core Length 112 cm

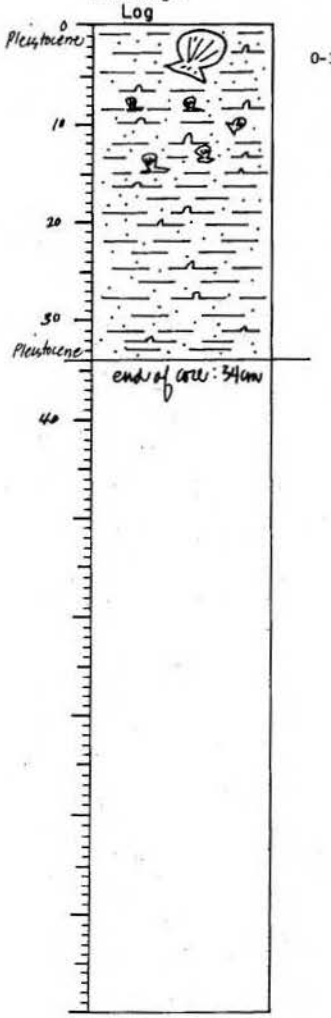
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | silic clay/ detritus | 35 | tr | | | 58 | 1 | | | | | 4 | | 3 | tr |
| 20 | silic clay/ detritus | 30 | 2? | | | 55 | 1 | | | | tr | 8 | | 5 | tr |
| 50 | highly silic clay/detritus | 32 | tr | | | 52 | | | | | tr | 10 | | 6 | tr |
| 111 | highly silic clay/detritus | 35 | 2 | | | 45 | | | | | | 12 | | 6 | |

## VISUAL CORE DESCRIPTION



Ship ASTERIAS Cruise 9-75 Leg — Sta. 52 Core No. 36G
Total Length 34 cm. Lat. 41°36.48'N Long. 70°55.57'W Depth 3.6 meters.
Core condition EXCELLENT. Date Described 9 JUNE 76 by J. Brooks.
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




### Detailed Description

0-34

SLIGHTLY SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray
a few zones of "rusty" olive yellow staining 18-22 cm, 28-31 cm; otherwise homogeneous throughout with the exception of shells
quite coarse sand in a silty lutite matrix with shells and shell hash common 0-17 cm; large fragment of quahog shell 0-5 cm

end of core



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

Ship: AST Core No. 3 GC.
Expedition 9-75 Station No. 52
Leg No. Total Core Length 34 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 silic clay/detritus | 45 | | | | 50 | | | | | tr | 3 | | 2 |
| 17 | slightly silic clay/detritus | 60 | | | | 37 | | | | | tr | 2 | | 1 |
| 33 | slightly silic clay/detritus | 65 | | | | 30 | | | | | tr | 2 | | 3 |

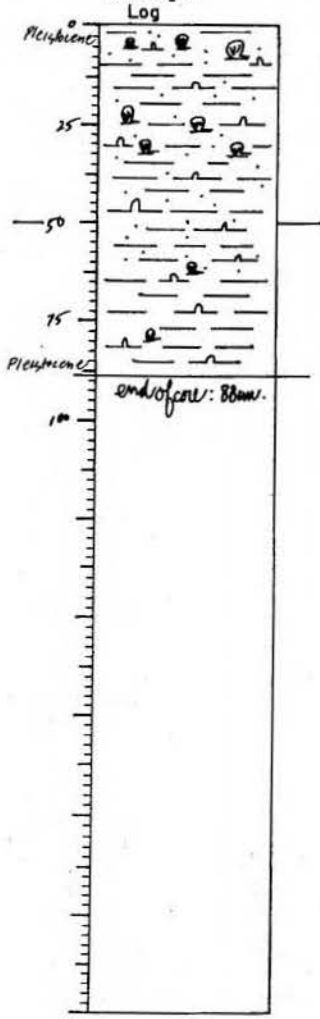
087

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 9-75 Leg — Sta. 67 Core No. 4GC
Total Length 88 cm. Lat. 41°36.19'N Long. 70°53.55'W Depth 8.8 meters
Core condition EXCELLENT Date Described 9 JUNE 76 by [illegible]
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




### Detailed Description

0-50
SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray
except for slight textural variations and zones of shell hash, the unit is homogeneous throughout
stiff, compact, very silty lutite with shell hash and fragments scattered throughout, and concentrated in the zones 0-9 cm and 20-30 cm
G, textural

50-88
SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray
again, excluding textural anomalies, unit is virtually homogeneous throughout
coarse and fine sands in a very silty lutite matrix; several zones of crushed shells and a few quartz pebble erratics are found throughout

end of core

088

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

Ship: AST Core No. 4 GC
Expedition 9-75 Station No. 67
Leg No. Total Core Length 88 cm

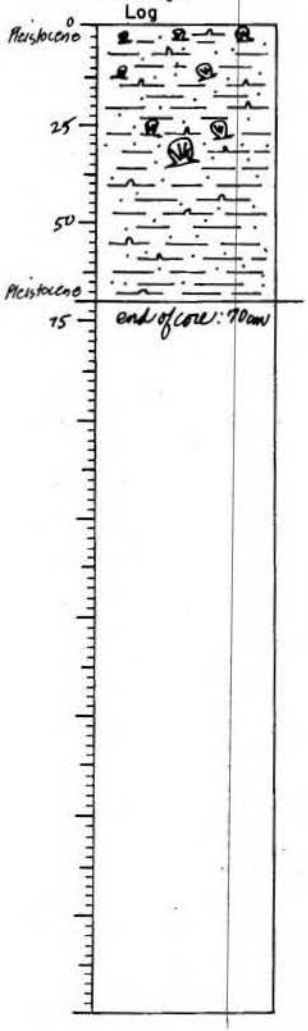
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | silic clay/ detritus | 50 | tr | | | 40 | | | | | tr | 4 | | 6 | |
| 40 | silic clay/ detritus | 45 | | | | 42 | | | | | tr | 6 | | 7 | |
| 55 | silic clay/ detritus | 60 | | | | 32 | | | | | | 3 | | 5 | tr |
| 87 | silic clay/ detritus | 65 | tr | | | 27 | | | | | | 2 | | 5 | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 9-75 Leg — Sta. 78 Core No. 6GC
Total Length 70 cm. Lat. 41°37.00'N Long. 70°54.08'W Depth 9.1 m.
Core condition EXCELLENT Date Described 1 JUNE 76 by J. BRODA.
Physiographic location NEW BEDFORD HARBOR.

Lithologic Log




### Detailed Description

0-70
SLIGHTLY SILIC CLAY/DETRITUS GRADES TO SILIC CLAY/ DETRITUS
5 Y 3/2 dark olive gray
slight lightening of hue in the textural laminations throughout the core
firm, compact, very silty lutite with pelecypod shells and fragments scattered throughout, and concentrated within zones 0-5 cm, 9-13 cm, 26-32 cm large scallop shell fragment and intact crepidula shell; also multiple appearances of sandy (coarser) laminations (detritus and shell hash) and lenses 32-70 cm

end of core



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

Ship: AST Core No. 6 GC
Expedition 9-75 Station No. 78
Leg No. _____ Total Core Length 70 cm

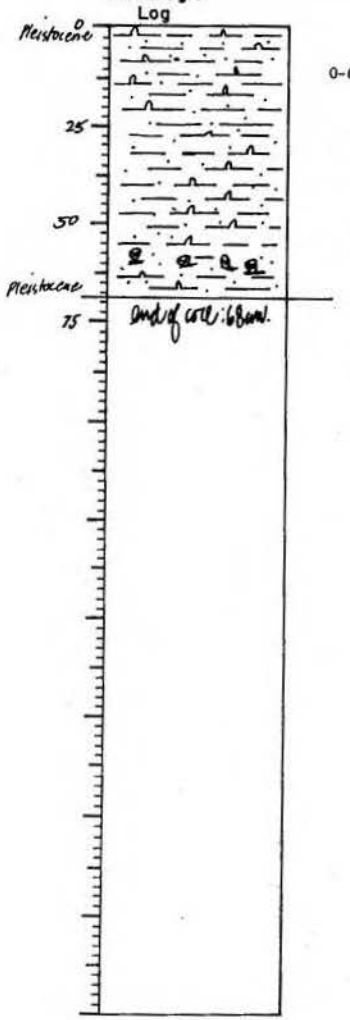
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | slightly silic clay/detritus | 45 | tr | | | 50 | | | | | tr | 2 | | 3 |
| 36 | silic clay/ detritus | 60 | tr | | | 34 | | | | | tr | 3 | | 3 |
| 69 | silic clay/ detritus | 55 | | | | 37 | | | | | | 3 | | 5 |

## VISUAL CORE DESCRIPTION



Ship ASTERIAS. Cruise 9-75 Leg — Sta. 80 Core No. BGC
Total Length 68 cm. Lat. 41° 30.27'N Long. 70°55.05'W Depth 7.9 m.
Core condition EXCELLENT Date Described 11 June 76 by J. Broda.
Physiographic location NEW BEDFORD HARBOR.

Lithologic Log




### Detailed Description

0-68

HIGHLY SILIC CLAY/DETRITUS GRADES TO SILIC CLAY/ DETRITUS

5 Y 3/2 dark olive gray

numerous and repetative gradational bands and laminations throughout the zone 10-58 cm; the majority of the best defined ones are olive or olive yellow and are .5-1.5 cm wide; a few very dark gray laminations are found near the base of the core

moist, slightly silty lutite with a few scattered bits of decomposed wood fragments 10-60 cm and a shell hash 62-64 cm composed of pelecypods

top portion of aluminum beverage container (partially decomposed) 3-5 cm

end of core



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

Ship: AST Core No. 8 GC
Expedition 9-75 Station No. 80
Leg No. Total Core Length 68 cm

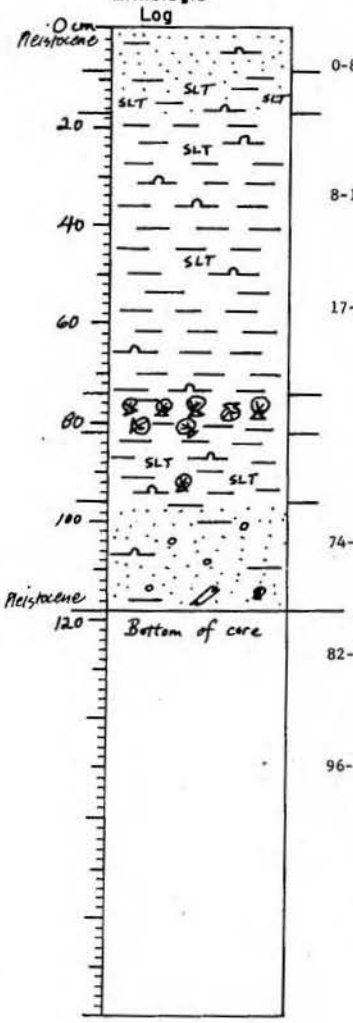
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | highly silic clay/detritus | 45 | tr | | | 40 | | | | | tr | 8 | | 7 | |
| 30 | hly silic clay with detritus | 25 | 2 | | | 51 | | | | | tr | 10 | | 12 | |
| 67 | silic clay/ detritus | 35 | 2 | | | 52 | | | | | | 5 | | 6 | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 10-75 Leg ____ Sta. 81 Core No. 9 GC
Total Length 119 cm. Lat. 41° 39.13' N Long. 70° 55.20' W Depth 5.2 miles
Core condition EXCELLENT Date Described 10 June 76 by H. Farmer
Physiographic location ACUSHNET RIVER — NEW BEDFORD HARBOR

Lithologic Log




### Detailed Description

0-8
DETRITUS/SLIGHTLY SILIC CLAY
10 YR 4/4 (very) dark yellowish brown with 1 cm lamination of yellowish brown at base
sediment is black below exposed surface
fine sand
S

8-17
SLIGHTLY SILIC CLAY/DETRITUS
5 YR 3/3 dark reddish brown
sediment is black below oxidized surface layer
very silty/sandy lutite
S

17-74
SILIC CLAY WITH DETRITUS
10 YR 3/1 very dark gray (black under surface) grades to 5 Y 3/2 dark olive gray ( 48 cm)
slight brownish hue appears from 27-31 cm in half of liner and 39-44 cm
very silty/sandy lutite becomes finer and less silty below 57 cm; three fine sand laminations 44-46 cm; large pelecypod fragments at 37 and 57 cm with scattered smaller fragments
4 x 4 cm fragment of concrete block at 23 cm
S

74-82
SHELL HASH IN MATRIX OF SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray
no mottling
pelecypod shell hash in very silty lutite matrix
S

82-96
SILIC CLAY WITH DETRITUS
10 YR 3/2 very dark grayish brown
uniform except for a few pelecypod fragments
very silty lutite
S

96-119
DETRITUS/SLIGHTLY SILIC CLAY
10 YR 3/2 very dark grayish brown
homogeneous throughout
firm, coarse sand with some small pebbles (5 mm), a bit of organic detritus (117 cm) and a few very small shell fragments

end of core



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

Ship: AST Core No. 9 GC
Expedition 10-75 Station No. 81
Leg No. ____ Total Core Length 119 cm

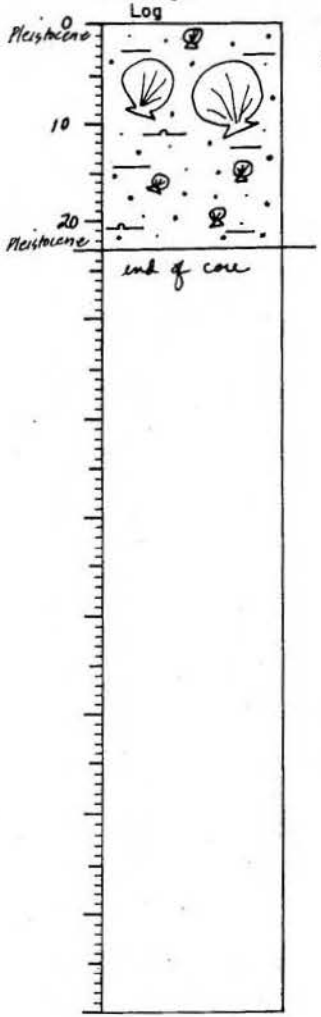
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 2 | detritus/slightly silic clay | 78 | | | | 20 | | | | | tr | 1 | | 1 |
| 20 | silic clay with detritus | 25 | | | | 66 | | | | | tr | 6 | | 3 |
| 65 | silic clay with detritus | 20 | | | | 75 | | | | | | 3 | | 2 |
| 118 | detritus/slightly silic clay | 80 | | | | 18 | | | | | | tr | | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 10-75 Leg ___ Sta. 83 Core No. 10 GC
Total Length 23 cm. Lat. 41° 38.66'N Long. 70° 55.08'W Depth 2.7 meters
Core condition EXCELLENT Date Described 10 JUNE 76 by H. Farmer
Physiographic location ACUSHNET RIVER ... NEW BEDFORD HARBOR

Lithologic Log




### Detailed Description

0-23
DETRITUS/SLIGHTLY SILIC CLAY
5 Y 3/2 dark olive gray
homogeneous except for pelecypod shells
firm, poorly sorted sand with numerous small shell fragments and two large shells spanning the core liner from 4-11 cm

end of core



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

Ship: AST Core No. 10 GC
Expedition 10/75 Station No. 83
Leg No. ___ Total Core Length 23 cm

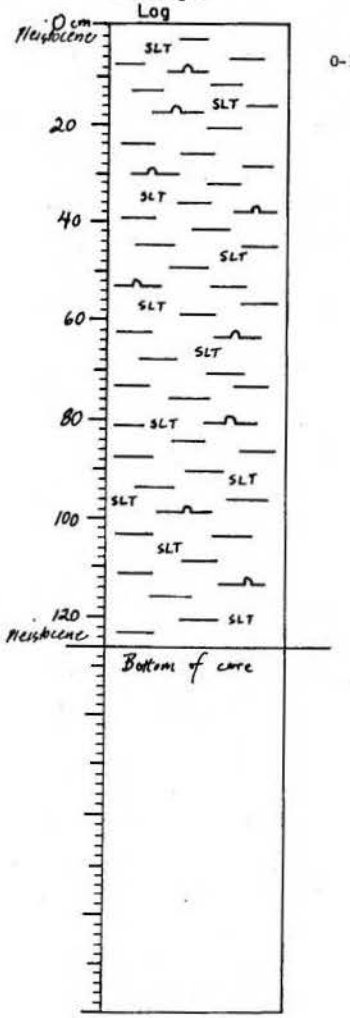
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | detritus/ slightly silic clay | 66 | | | | 30 | | | | | tr | 2 | | 2 |
| 22 | detritus/ slightly silic clay | 76 | | | | 20 | | | | | tr | tr | tr | 4 |

## VISUAL CORE DESCRIPTION



Ship *ASTERIAS* Cruise *10-75* Leg ____ Sta. *84* Core No. *11GC*
Total Length *123* cm. Lat. *41° 38.63' N* Long. *70° 54.79' W* Depth *2.7 meters*
Core condition *EXCELLENT* Date Described *10 June 76* by *H. Farmer*
Physiographic location *ACUSHNET RIVER - NEW BEDFORD HARBOR*

Lithologic Log




### Detailed Description

0-123
SILIC CLAY WITH DETRITUS GRADES TO SILIC CLAY/ DETRITUS
5 Y 3/2 dark olive gray - below oxidized surface layer, color grades from black near top to color of surface sediment at 60 cm
fairly homogeneous excepting small to medium shells in the interval 15-53 cm
relatively soft, fairly silty lutite, becomes somewhat sandier in basal 15 cm, pebble at 88 cm

end of core



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

Ship: AST Core No. 11 GC
Expedition 10/75 Station No. 84
Leg No. ____ Total Core Length 123 cm

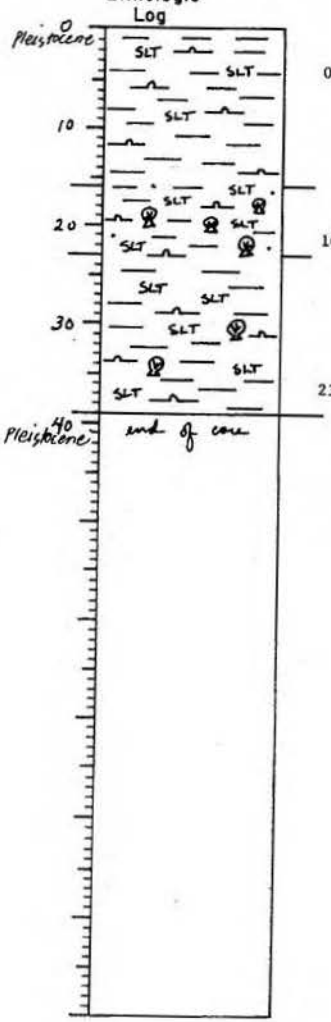
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | silic clay with detritus | 25 | | | | 75 | | | | | tr | 4 | | 2 |
| 48 | silic clay/ detritus | 45 | | | | 40 | | | | | tr | 11 | | 3 |
| 122 | silic clay/ detritus | 55 | | | | 38 | | | | | | 3 | | 4 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 10-75 Leg ____ Sta. 85 Core No. 12 GC
Total Length 39 cm. Lat. 41° 38.72'N Long. 70° 55.24'W Depth 5.2 meters
Core condition EXCELLENT Date Described 11 June 76 by H. Farmer
Physiographic location ACUSHNET HARBOR ... NEW BEDFORD HARBOR

Lithologic Log




### Detailed Description

0-16
SILIC CLAY WITH DETRITUS
10 YR 3/2 very dark grayish brown, a distinct rusty red hue is apparent in the top 5 cm and becomes fainter lower in the unit
below the oxidized surface layer described above, sediment is very dark brown to black
mulchy, organic-like, fairly silty lutite
subtle $H_2S$ odor from much of core

16-23 (S, inclined)
SILIC CLAY/DETRITUS
10 YR 3/1 very dark gray
again, the exposed surface sediment is somewhat lighter colored
soft, mulchy, silty lutite with numerous pelecypod shells
S

23-39
SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray; very dark gray below oxidized surface
homogeneous excepting scattered pelecypods
somewhat mulchy, silty lutite

end of core



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

Ship: AST Core No. 12 GC
Expedition 10/75 Station No. 85
Leg No. ____ Total Core Length 39 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 silic clay with detritus | 24 | | | | 73 | | | | | | 2 | | 1 | tr |
| 2* | silic clay with detritus | 27 | | | | 67 | | | | | | 5 | | 1 | |
| 20 | silic clay/ detritus | 30 | | | | 65 | | | | | | 3 | | 2 | |
| 38 | silic clay/ detritus | 31 | | | | 55 | | | | | | 12 | | 2 | |

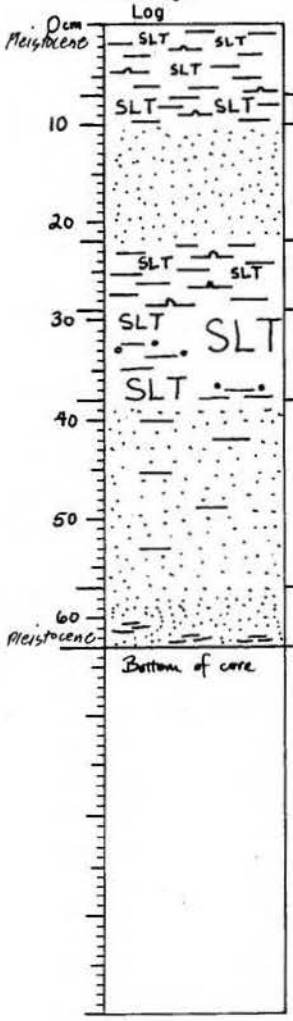
2* Has a considerable quantity of opaques often similar in form to pyrite; these are generally not present in 2 which instead has a rusty yellow hue; 2* was sampled from under the oxidized layer from which 2 was taken

## VISUAL CORE DESCRIPTION



Ship ASTERIAS Cruise 10-75 Leg ___ Sta. 86 Core No. 13GC
Total Length 63 cm. Lat. 41° 38.73' N Long. 70° 55.28' W Depth 10.9 meters
Core condition Excellent Date Described 11 June 76 by H. Farmer
Physiographic location ACUSHNET RIVER - NEW BEDFORD HARBOR

Lithologic Log




### Detailed Description

0-7
SILIC CLAY/DETRITUS
10 YR 3/2 very dark grayish brown
black mottling with $H_2S$ odor below exposed surface
mulchy, organic-rich, silty lutite
S

7-10
SLIGHTLY SILIC CLAY/DETRITUS
10 YR 4/4 dark yellowish brown, gray to dark gray below surface layer
marbling of yellow browns is extensive
somewhat spongy, quite silty lutite
S

10-22
DETRITUS
10 YR 4/2 grayish brown, gray below surface layer
inclined laminations ($\approx 13°$) of very dark gray, very dark grayish brown and dark yellowish browns: 13-22 cm
firm, laminated, fine sand
S, inclined and somewhat distorted

22-29
SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray, black below oxidized surface
quite uniform, excepting a few small, scattered shell fragments
mulchy, spongy, fairly silty lutite
S, very horizontal

29-38
DETRITUS/UNFOSSILIFEROUS CLAY
10 YR 5/1 gray
two large, very distorted clasts of very dark grayish brown, mulchy lutite at 32-35 cm and 37-38 cm; between these is a large, dark gray discoloration
quite firm silt excepting the mulchy lutite clasts and a number of very small pebbles that seem to be associated with the contacts of the clasts
S, horizontal

38-57
DETRITUS/CLAY
2.5 Y 6/2 light brownish gray
inclined laminations (about 15° but slope opposite to laminations in unit #3 above) of 7.5 YR 5/6 strong brown
compact, coarse silt except laminations (38-48 cm) which are fine sand, laminations from 48-54 cm are very fine and texturally indistinguishable
S, very disturbed

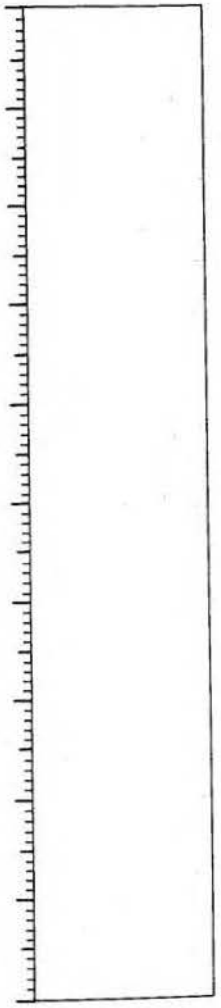


## VISUAL CORE DESCRIPTION



Ship ASTERIAS Cruise 10-75 Leg ___ Sta. 86 Core No. 13GC

Lithologic Log



### Detailed Description

57-63
DETRITUS
10 YR 5/2 grayish brown
strong brown is smeared about over the sands and the browner lutite clasts and emphasizes the very disrupted nature of this unit
very firm, medium sand with irregular clasts of silty lutite

end of core

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

Ship: AST  Core No. 13 GC

Expedition 10/75  Station No. 86

Leg No. _____  Total Core Length 63 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | silic clay/ detritus | 33 | | | | 62 | | | | | | 4 | | 1 | tr |
| 9 | slightly silic clay/detritus | 50 | | | | 49 | | | | | | 1 | | tr | tr |
| 14 | detritus | 95 | | | | 5 | | | | | | tr | | tr | |
| 26 | silic clay with detritus | 28 | | | | 63 | | | | | | 7 | | 2 | tr |
| 31 | detritus/ unfoss clay | 75 | | | | 25 | | | | | | | | | |
| 53 | detritus/clay | 80 | | | | 20 | | | | | | | | tr | |



VISUAL CORE DESCRIPTION  Page 1 of 1

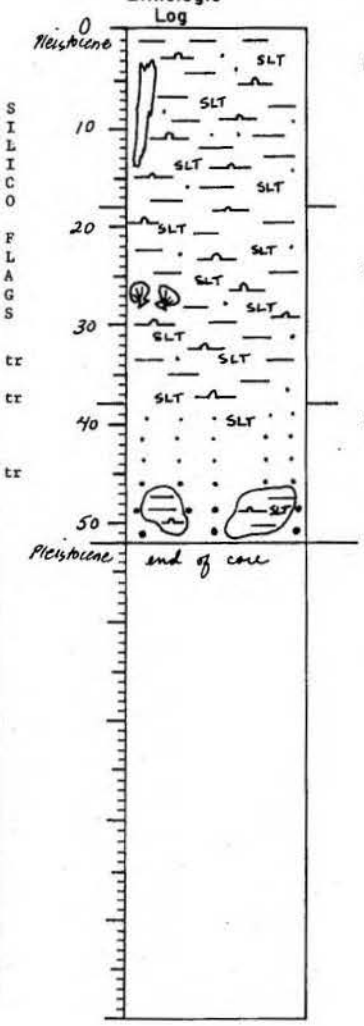
Ship ASTERIAS Cruise 10-75 Leg ____ Sta. 87 Core No. 14GC

Total Length 52 cm. Lat. 41° 38.45' N Long. 70° 55.22' W Depth 10 meters

Core condition EXCELLENT Date Described 11 June 76 by H. FARMER

Physiographic location ACUSHNET RIVER ... NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-18
SILIC CLAY WITH DETRITUS
10 YR 3/2 very dark grayish brown, black with $H_2S$ odor under oxidized surface
subtle rusty brownish oxidation is generally present throughout, but especially notable in a lighter zone from 7-9 cm
somewhat spongy, silty lutite
long fragment of wood rests along edge of core from 3-14 cm
G

18-38
SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray, black with $H_2S$ odor under oxidized surface
homogeneous excepting a few shell fragments at 28 cm and a bit of organic detritus(?) at 36 cm
mulchy, spongy, fairly silty lutite
G

38-52
DETRITUS/SLIGHTLY SILIC CLAY
10 YR 4/1 dark gray, pales a bit with depth, slightly darker under surface sediment
laminations of very dark grayish brown and dark brown are present in top 5 cm; large, dark olive gray clasts appear in basal 6 cm
very fine sand grades to coarse sand; below 46 cm, a couple large (4 cm), silty lutite clasts are found in the coarse sand
49 cm: small fragment of coal

end of core

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

Ship: AST  Core No. 14 GC

Expedition 10/75  Station No. 87

Leg No. _____  Total Core Length 52 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | silic clay with detritus | 20 | | | | 74 | | | | | | 5 | | 1 | tr |
| 30 | silic clay with detritus | 27 | | | | 66 | | | | | tr | 6 | | 1 | |
| 41 | detritus/ slightly silic clay | 90 | | | | 10 | | | | | | tr | | tr | |



VISUAL CORE DESCRIPTION

Page 1 of 1

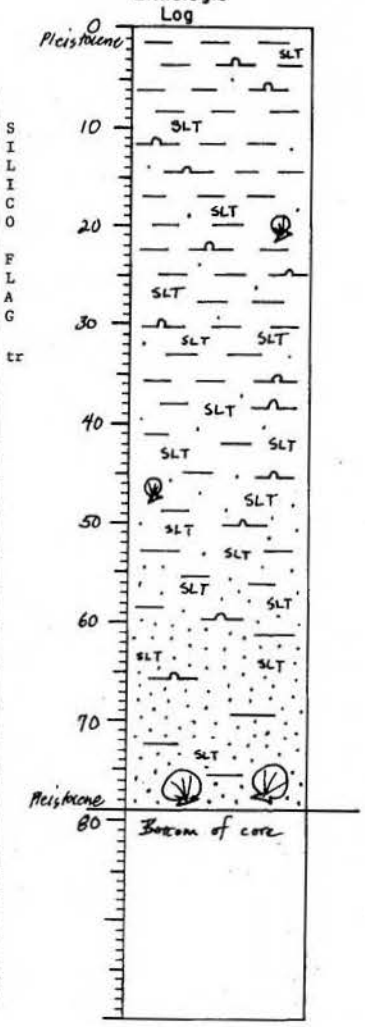
Ship ASTERIAS Cruise 10-75 Leg ____ Sta. 92 Core No. 16-GC

Total Length 79 cm. Lat. 41° 32.81'N Long. 70° 54.26'W Depth 13.0 meters

Core condition EXCELLENT Date Described 15 June '76 by H. Former

Physiographic location BUZZARD'S BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-79
SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray
no mottling, but fine, scattered biotite(?) fragments glitter on the sediment surface
quite silty/sandy lutite grades to a fine-medium sand below 55 cm; a few shell fragments are scattered throughout the core and a couple larger pieces sit at the bottom; 46 cm - small, rounded pebble

end of core

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

Ship: AST  Core No. 16 GC

Expedition 10/75  Station No. 92

Leg No. _____  Total Core Length 79 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | silic clay/ detritus | 40 | | | | 49 | tr | | | | | 10 | | 1 | tr |
| 90 | silic clay/ detritus | 65 | | | | 30 | | | | | | 4 | | 1 | |
| 76 | silic clay/ detritus | 70 | | | | 23 | | | | | | 5 | | 2 | |



VISUAL CORE DESCRIPTION

Page 1 of 1

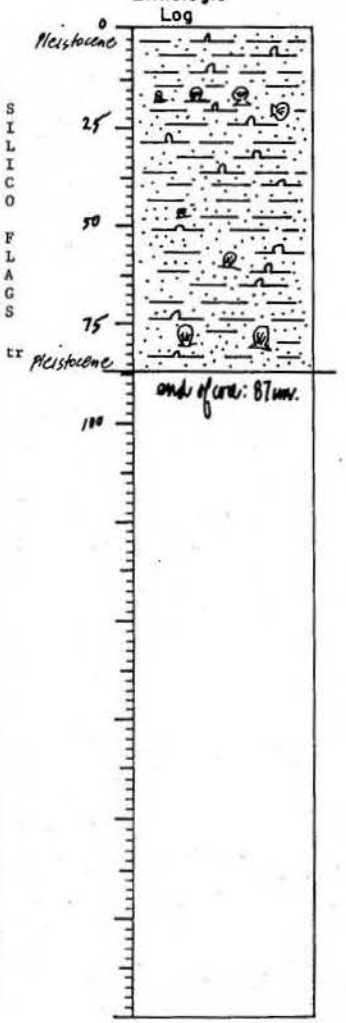
Ship ASTERIAS Cruise 10-75 Leg — Sta. 97 Core No. 176C

Total Length 87 cm. Lat. 41°53.48'N Long. 70°53.97'W Depth 13.0 M.

Core condition EXCELLENT Date Described 16 June 76 by J. Bode

Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




Detailed Description

0-87
DETRITUS/SILIC CLAY
5 Y 4/2 olive gray
except for complete shells and fragments core is homogeneous throughout
firm, quite silty-sandy lutite with consistent texture throughout: a few inclusions of pelecypod fragments are found 16-22 cm, 47 cm, 65 cm, 75-79 cm; nicely preserved crepidula shells are at 58-60 and 81-83 cm; a large granite pebble is at the base of the core

end of core

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

Ship: AST  Core No. 17 GC

Expedition 10/75  Station No. 97

Leg No. _____  Total Core Length 87 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | detritus/ silic clay | 75 | | | | 17 | | | | | tr | 3 | | 5 |
| 50 | detritus/ silic clay | 70 | | | | 24 | | | | | tr | 2 | | 4 |
| 86 | detritus/ silic clay | 55 | | | | 32 | | | | | 1 | 5 | | 7 |

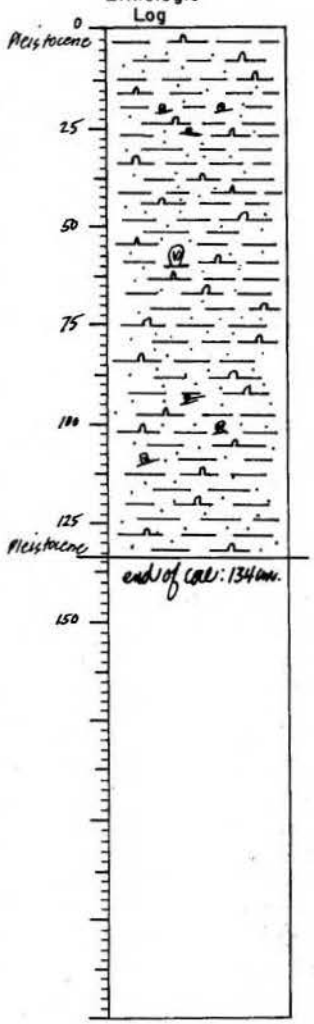


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ATLANTIS Cruise 10-75 Leg — Sta. 99 Core No. 18GC
Total Length 134 cm. Lat. 41°33.52'N Long. 70°52.72'W Depth 11.5 m.
Core condition EXCELLENT Date Described 16 June 76 by J. Birda
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




Detailed Description

0-134

5 Y 4/2 dark olive gray
several nebulous, irregular, yellowish "rusty zones" (very likely post-coring alteration) 13-23 cm (faint), 29-50 cm, 75-77 cm, 89-92 cm
very silty lutite with scattered sand grains and shell fragments plus an extremely well-preserved pteropod at 58 cm

end of core

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

Ship: AST  Core No. 18 GC

Expedition 10/75  Station No. 99

Leg No. _____  Total Core Length 134 cm

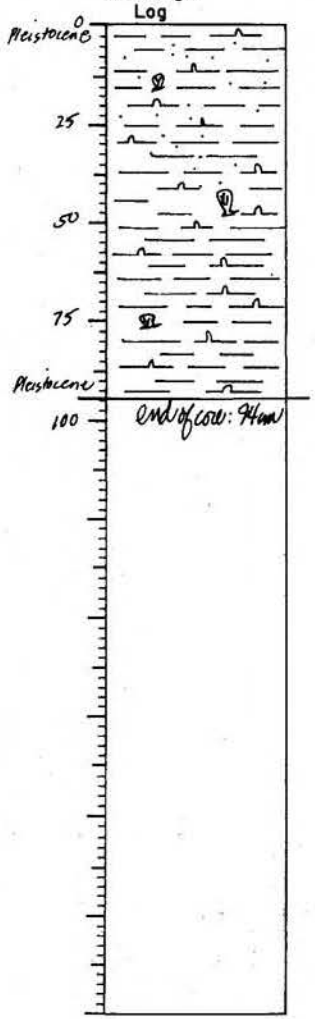
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | silic clay with detritus | 25 | | | | 67 | | | | | tr | 3 | | 5 |
| 40 | silic clay/ detritus | 45 | | | | 45 | | | | | tr | 4 | | 6 |
| 133 | silic clay/ detritus | 35 | | | | 51 | | | | | tr | 6 | | 8 |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship ASTERIAS Cruise 10-75 Leg — Sta. 100 Core No. 19GC
Total Length 94 cm. Lat. 41° 53.96'N Long. 70° 52.08'W Depth 11.5m
Core condition EXCELLENT Date Described 17 JUNE 76 by J. Broda
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR.

Lithologic Log




Detailed Description

0-94
SILIC CLAY/DETRITUS
5 Y 3/2 dark olive gray
except for occasional shell fragments and faint, rusty (post-coring) zones, core is homogeneous throughout
firm, very silty lutite with varying amounts of coarse material within, generally increasing with depth, but occasionally concentrated in lenses or pockets 20-60 cm

end of core

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

Ship: AST  Core No. 19 GC

Expedition 10/75  Station No. 100

Leg No. _____  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 |
| 1 | silic clay/ detritus | 65 | tr | | | 23 | | | | | tr | 5 | | 7 |
| 50 | silic clay/ detritus | 45 | | | | 48 | | | | | tr | 3 | | 4 |
| 93 | silic clay/ detritus | 40 | | | | 56 | | | | | tr | 1 | | 3 |

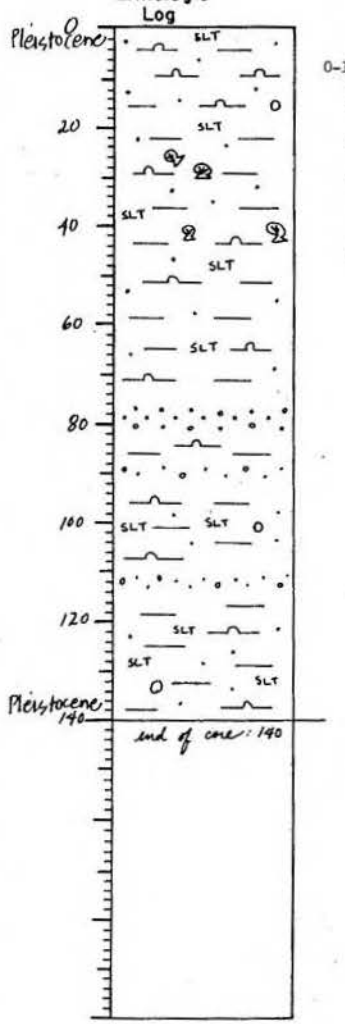


VISUAL CORE DESCRIPTION



Ship ASTERIAS Cruise 7-76 Leg - Sta. 108 Core No. 20 GC
Total Length 140 cm. Lat. 41° 32' N Long. 70° 46.25' W Depth 14.5 meters
Core condition EXCELLENT Date Described 12 Nov 76 by H. FARMER
Physiographic location Buzzard's Bay approaches to New Bedford Harbor

Lithologic Log




Detailed Description

0-140
SILIC CLAY/DETRITUS
5 Y 4/1 dark gray, slightly darker below oxidized surface
quite homogeneous except for scattered, white bivalves from 28-30 and 41-45 cm
very silty lutite with several coarser, sandy laminations at 79, 89 and 112 cm: occasional small pebbles are found throughout

end of core

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

Ship: ASTERIAS  Core No. 20 GC

Expedition 7-76  Station No. 108

Leg No. _____  Total Core Length 140 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | | |
| | | SILIC FLAG | Detrital grains | Micronodules | * | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 cm | silic clay with detritus | tr | 30 | | tr | | 60 | tr | | | | | 5 | tr | 2 | 3 |
| 70 | silic clay/ detritus | tr | 40 | | | | 43 | | | | | | 13 | tr | 1 | 3 |
| 139 | silic clay/ detritus | | 47 | | | | 40 | | | | | | 9 | | 1 | 3 |

*industrial fibers, asbestos(?)



VISUAL CORE DESCRIPTION

Page 1 of 1

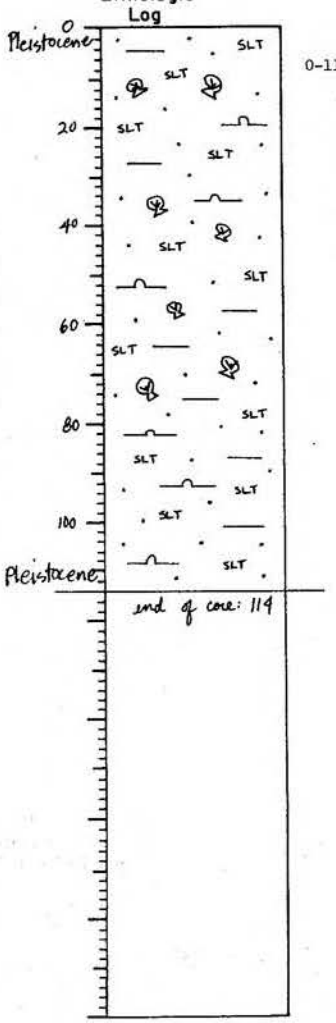
Ship ASTERIAS Cruise 7-76 Leg – Sta. 109 Core No. 21-GC

Total Length 114 cm. Lat. 41° 32.57' N Long. 70° 54.14' W Depth 15.4 meters

Core condition EXCELLENT Date Described 12 Nov 76 by H. FARMER

Physiographic location Buzzard's Bay Approaches to New Bedford Harbor

Lithologic Log




Detailed Description

0-114
SILIC CLAY/DETRITUS
5 Y 4/1 dark gray, slightly darker below oxidized surface
no mottling, but tiny black flecks are abundant throughout; also, scattered bivalve fragments are present in the following intervals; 7-17, 34-46, and 59-80 cm
very silty lutite with an occasional pebble

end of core

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

Ship: ASTERIAS  Core No. 21 GC

Expedition 7-76  Station No. 109

Leg No. _____  Total Core Length 114 cm

| LEVEL | SEDIMENT TYPE | STILICO FLAGS | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | * | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | silic clay/ detritus | tr | 50 | | | | 39 | | | | | | 6 | | 3 | 2 |
| 60 | silic clay/ detritus | | 57 | | 4 | | 30 | | | | | | 7 | | 1 | 1 |
| 113 | silic clay/ detritus | | 53 | | | | 40 | | | | | | 3 | | 2 | 2 |

*industrial fibers, asbestos (?)

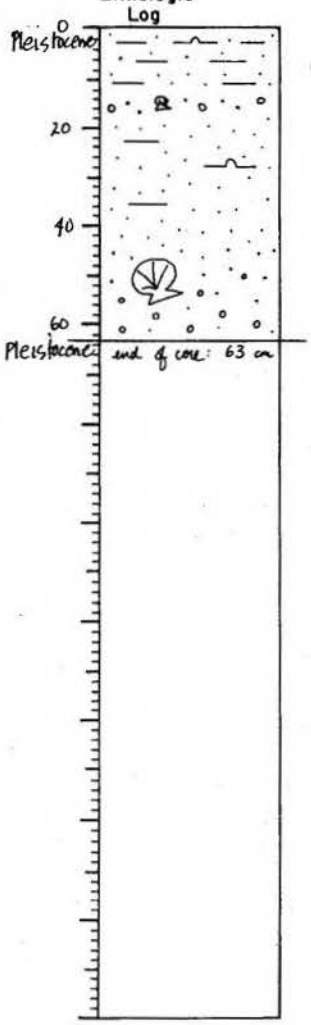


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg – Sta. 110 Core No. 22-GC
Total Length 63 cm. Lat. 41° 34.6' N Long. 70° 52.7' W Depth 88 meters
Core condition EXCELLENT Date Described 12 Nov 76 by H. FARMER
Physiographic location BUZZARD'S BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-63
SILIC CLAY/DETRITUS
5 Y 2.5/2 black oxidizes to 3/2 dark olive gray
no mottling
very silty/sandy lutite grades to medium sand (~10 cm); coarse sand, pebbles, and shell fragment lamination at 16 cm - grades from coarse sand to small gravel in lower 20 cm; several large oyster shells appear in this same interval

end of core

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

Ship: ASTERIAS  Core No. 22 GC

Expedition 7-76  Station No. 110

Leg No. _____  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 | PYRITE |
| 1 | silic clay/ detritus | 50 | | | | 43 | | | | | | 4 | | 1 | 2 |
| 62 | detritus | 75 | | | | 16 | | | | | | 4 | | 2 | 3 |

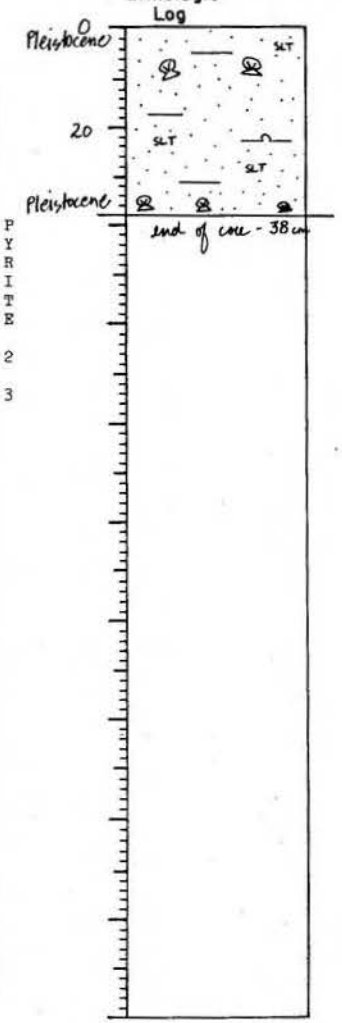


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg — Sta. 111 Core No. 23-GC
Total Length 38 cm. Lat. 41° 35.5' N Long. 70° 52.6' W Depth 7.9 meters
Core condition EXCELLENT Date Described 15 Nov 76 by H. FARMER
Physiographic location BUZZARD'S BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-38
DETRITUS
5 Y 2.5/2 black, oxidized surface layer is 3/2 dark olive gray
no mottling
medium to coarse sand with lutite matrix; a few bivalve fragments are scattered from 5-12 cm while numerous pieces are found in the basal 2 cm

end of core

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

Ship: ASTERIAS  Core No. 23 GC

Expedition 7-76  Station No. 111

Leg No. _____  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 | PYRITE |
| 1 | detritus | 85 | | | | 13 | | | | | | 1 | | 1 | tr |
| 36 | detritus | 77 | | | | 15 | | | | | | 3 | | 2 | 3 |

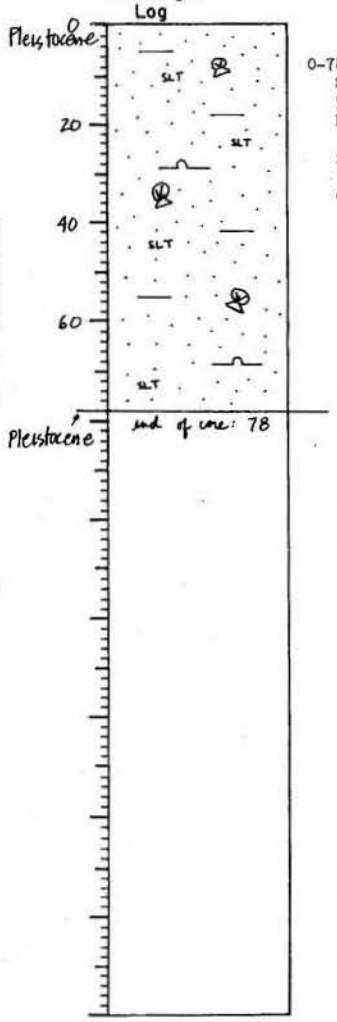


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg - Sta. 113 Core No. 25 GC
Total Length 78 cm. Lat. 41° 39.9' N Long. 70° 53.6' W Depth 8.8 meters
Core condition EXCELLENT Date Described 15 Nov 76 by H. FARMER
Physiographic location BUZZARD'S BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-78
SILIC CLAY/DETRITUS
5 Y 2.5 black oxidizes to 3/2 dark olive gray
homogeneous except for scattered bivalve fragments throughout
fine to medium sand in lutite matrix

end of core

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

Ship: ASTERIAS  Core No. 25 GC

Expedition 7-76  Station No. 113

Leg No. _____  Total Core Length 78 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | * | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | silic clay/ detritus | 60 | | 1 | | 30 | tr | | | | | 6 | | 1 | 2 |
| 76 | detritus | 83 | | | | 10 | | | | | | 2 | | 2 | 3 |

*industrial fibers, asbestos?

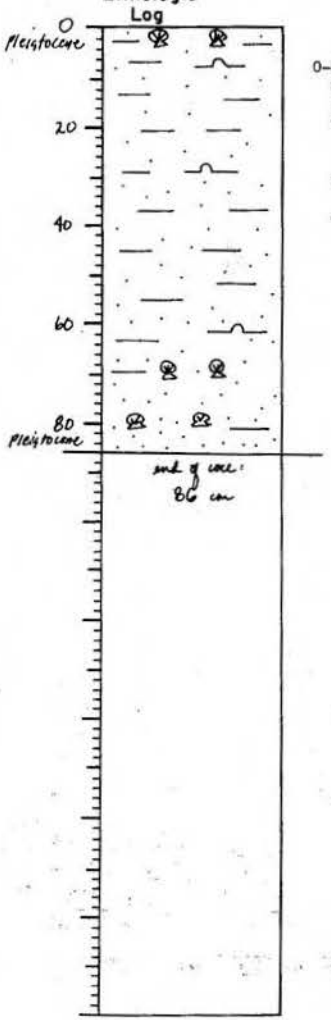


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg - Sta. 114 Core No. 26 GC
Total Length 86 cm. Lat. 41° 34.9'N Long. 70° 59.2'W Depth 7.9 meters
Core condition EXCELLENT Date Described 15 Nov 76 by H. FARMER
Physiographic location BUZZARD'S BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-86
SILIC CLAY/DETRITUS
5 Y 2.5/2 black oxidizes to 3/2 dark olive gray
very uniform except for scattered bivalve fragments which are primarily concentrated in the intervals 0-3, 72-73 and 79-82 cm
fine to medium detrital sand in lutite matrix

end of core

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

Ship: ASTERIAS  Core No. 26 GC

Expedition 7-76  Station No. 114

Leg No. _____  Total Core Length 86 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SILICO FLAG | Inorganic Material: Silt & Sand | | | | | Biogenous Material: Calcareous | | | | | Biogenous Material: Siliceous | | | PYRITE |
| | | | Detrital grains | Micronodules | * | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 2 | silic clay/ detritus | tr | 45 | | tr | | 42 | tr | | | | tr | 6 | | 3 | 4 |
| 43 | silic clay/ detritus | | 47 | | | | 45 | | | | | | 3 | | 3 | 2 |
| 85 | detritus | | 78 | | | | 15 | | | | | | 2 | | 3 | 2 |

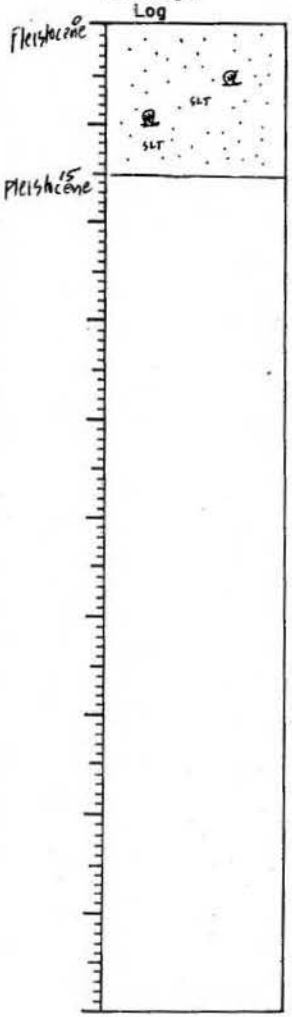
*industrial fibers, asbestos?



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg - Sta. 115 Core No. 27 GC
Total Length 15 cm. Lat. 41°35.4'N Long. 70°54.7'W Depth 5.8 meters
Core condition EXCELLENT Date Described 15 NOV 76 by J. Boda
Physiographic location BUZZARDS BAY APPROACHES TO NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-15
DETRITUS
5Y 3/2 dark olive gray
homogeneous throughout
medium to coarse sand in a silty lutite matrix.
A few clam shell fragments scattered throughout.
End of core.

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

Ship: Asterias  Core No. 27 GC

Expedition 7-76  Station No. 115

Leg No. –  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 |
| 7 | Detritus | 78 | | | | 18 | | | | | | 2 | | 2 |

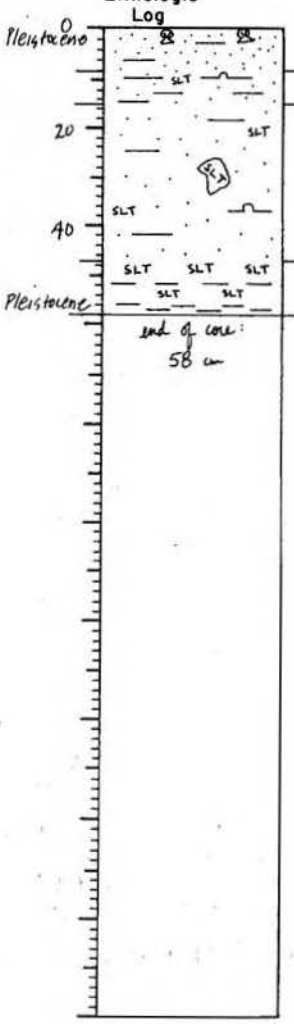


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg – Sta. 116 Core No. 28-GC
Total Length 58 cm. Lat. 41° 37.9' N Long. 70° 54.6' W Depth 7.6 meters
Core condition Excellent Date Described 15 Nov 76 by H. FARMER
Physiographic location NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-8
SLIGHTLY SILIC CLAY/DETRITUS
5 Y 2.5/2 black, oxidizes to 3/2 dark olive gray
no mottling
fine, sandy lutite with numerous shell fragments concentrated particularly at top and bottom of unit
S, inclined

8-15
SILIC CLAY/DETRITUS
5 Y 2.5/2 black oxidizes to 3/2 dark olive gray
no mottling
smoother, fairly silty lutite
S, textural

15-47
SLIGHTLY SILIC CLAY/DETRITUS
5 Y 2.5/2 black oxidizes to 3/2 dark olive gray
3x2 cm gray silt clast at 28-31 cm
medium to coarse sand in lutite matrix, with numerous shell gragments throughout
S

47-58
SILIC CLAY WITH DETRITUS INTERBEDDED WITH DETRITUS
5 Y 5/2 olive (lutite), 5/1 gray (silt)
subtle laminations of olive, apparently distinct from the silt, appear in the lutite
relatively stiff unit of interbedded silt and slightly silty lutite; the silt laminations are quite thin except for a 2 cm bed at the upper contact

end of core

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

Ship: ASTERIAS  Core No. 23 GC

Expedition 7-76  Station No. 111

Leg No. _____  Total Core Length 38 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | * | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 2 cm | slightly silic clay/detritus | 70 | | | | 24 | | | | | | 2 | | 2 | 2 |
| 13 | silic clay/ detritus | 42 | | tr | | 50 | tr | | | | | 4 | | 2 | 2 |
| 48 | detritus | 88 | | | | 12 | | | | | | | | | |
| 57 | unfossiliferous clay | 5 | | | | 95 | | | | | | | | | |

*industrial fibers, asbestos?

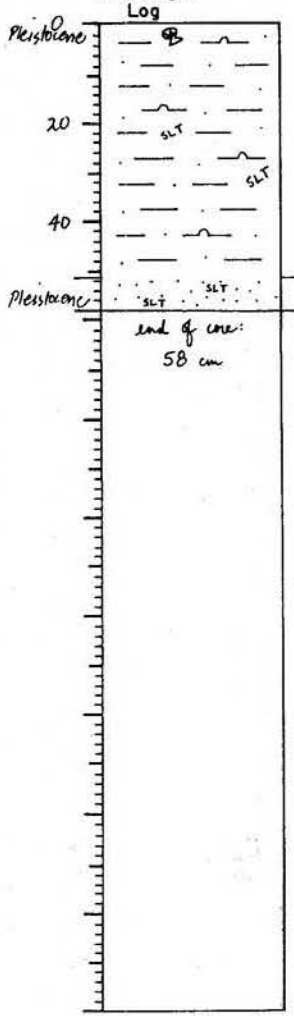


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship ASTERIAS Cruise 7-76 Leg – Sta. 117 Core No. 29 GC
Total Length 58 cm. Lat. 41° 38.9' N Long. 70° 54.9' W Depth 8.2 meters
Core condition EXCELLENT Date Described 15 Nov 76 by H. FARMER
Physiographic location NEW BEDFORD HARBOR

Lithologic Log




Detailed Description

0-51
SILIC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray
subtle, thin, dark band at 23 cm
smooth, fairly silty lutite, with scattered molluscan fragments in top 5 cm
S

51-58
DETRITUS
5 Y 3/2 dark olive gray
small (1 cm), black, organic-rich spot, 57 cm; smaller, light gray, sandy lutite clast, 58 cm; also at 58 cm, small wood fragment
fine to medium sand in lutite matrix, with occasional shell fragments

end of core

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

Ship: ASTERIAS

Core No. 29 GC

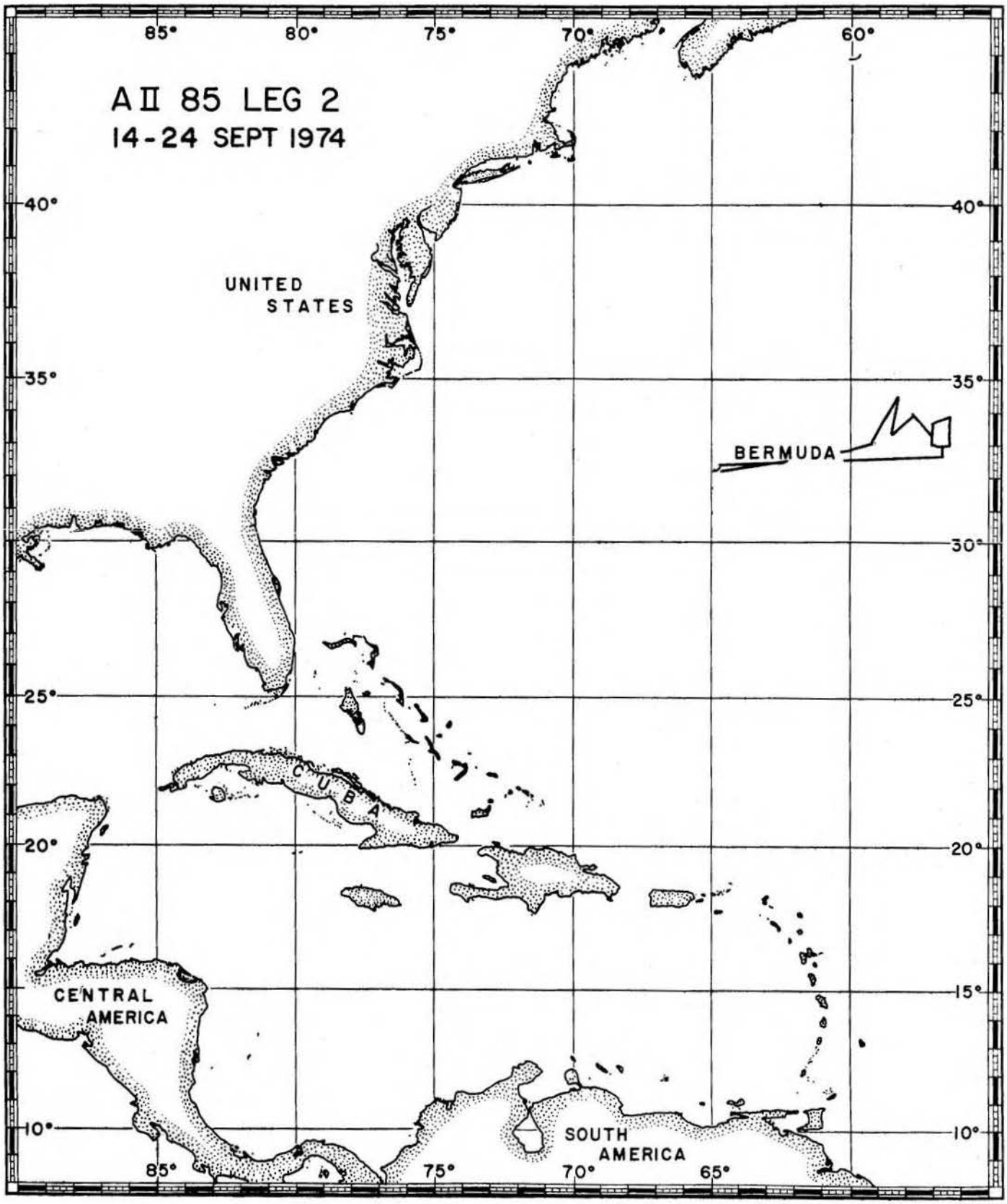
Expedition 7-76

Station No. 117

Leg No. _____

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 | PYRITE |
| 2 | silic clay with detritus | 25 | | | | 58 | | | | | tr | 9 | | 3 | 5 |
| 57 | detritus | 75 | | | | 16 | | | | | | 3 | | 3 | 3 |


AII 85 LEG 2
14-24 SEPT 1974
85°
80°
75°
70°
60°
40°
35°
30°
25°
20°
15°
10°
UNITED STATES
BERMUDA
CUBA
CENTRAL AMERICA
SOUTH AMERICA
85°
75°
70°
65°

```
***************          STATION DATA RETRIEVAL          ***************                                    PAGE 1
***************          DATE: 17:07 JUN 03,'77          ***************                                    **WHOI**
```

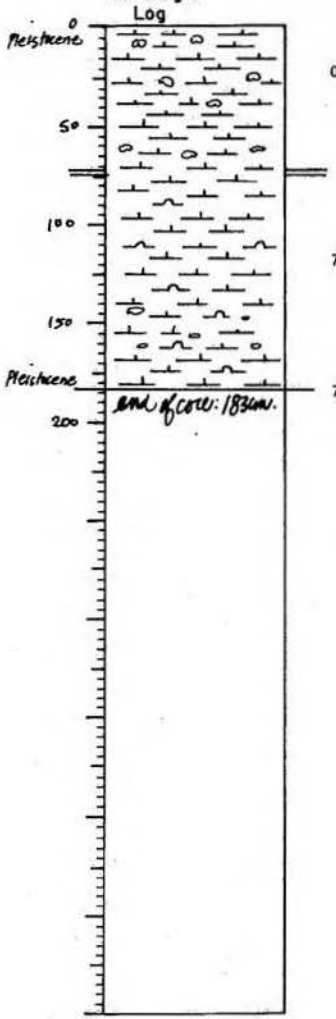
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DE-VICE | DATE YRMHDA | LATITUDE | LONGITUDE | FIX TYPE | MARS-DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO-GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AII | 85 | 2 | 0004 | 0000 | 13 | 74 920 | 33 40.7'N | 57 36.6'W | 9 | 114.37 | 0004 | 4530. | 183. | 0000 | 13 | 3322 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS CALC-SILIC OOZE | | | | | | | | | | |
| AII | 85 | 2 | 0008 | 0000 | 13 | 74 921 | 33 54.1'N | 57 21.7'W | 9 | 114.37 | 0008 | 4630. | 198. | 0000 | 13 | 3148 | 0 | |
| | | | | | **COMMENTS** | | | MN-RICH MOTTLES AND INCLUSIONS | | | | | | | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship AII Cruise 85 Leg II Sta. 4 Core No. 4GC
Total Length 183 cm. Lat. 32°40.7'N Long. 57°36.6'W Depth 4530 m.corr.
Core condition EXCELLENT Date Described 22 June 76 by J. Broda.
Physiographic location BERMUDA RISE.

Lithologic Log




### Detailed Description

0-72
CALC OOZE
7.5 YR 5/4 brown grades to 10 YR 6/3 pale brown and back to 7.5 YR 5/4 brown
common intermottling of the colors above in the gradational zones and many small, gray and olive green, freckle-like mottles
moist, slick lutite with scattered forams and occasional small, lithified inclusions (clay)
G, textural

72-74
CALC OOZE
2.5 Y 4/4 olive brown and 7.5 YR 5/4 brown
complete mixing of the two colors above
very stiff, lithified lumps combine to make a compact zone with a matrix of slightly silty lutite
G

74-183
CALC-SILIC OOZE
10 YR 5/3 brown grades to 5/2 grayish brown
a few freckle-like olive mottles and specks 140-169 cm
very moist, slick lutite with a trace of forams and a few lithified lumps

end of core



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

Ship: AII Core No. 4 GC
Expedition 85 Station No. 4
Leg No. 1 Total Core Length 183 cm

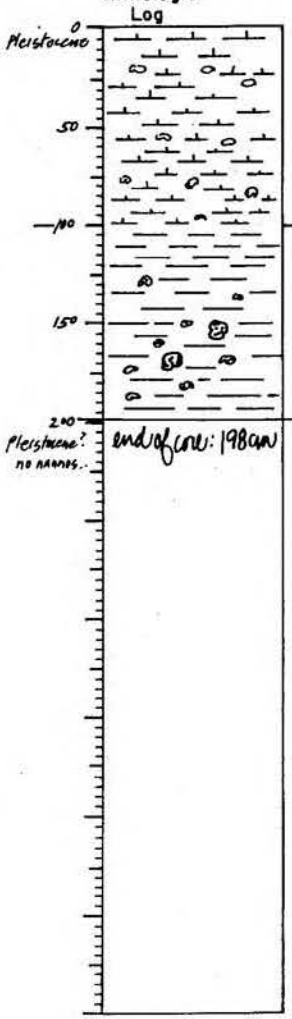
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | tr | 2 | | | 51 | 2 | 35 | tr | | 10 | | | | |
| 70 | calc ooze | 2 | 1 | | | 44 | 3 | 45 | tr | | 5 | | | | |
| 73 | calc ooze | 2 | tr | | | 53 | 2 | 35 | | | 8 | | | | |
| 100 | calc-silic ooze | 8 | tr | | | 57 | 2 | 20 | | tr | 5 | 3 | 1 | 4 | tr |
| 180 | calc-silic ooze | 3 | tr | | | 35 | 2 | 40 | | tr | 8 | 6 | 1 | 4 | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship AII Cruise 85 Leg II Sta. 8 Core No. 86C
Total Length 198 cm. Lat. 33° 54.1' N Long. 57° 21.7' W Depth 4630 m corr.
Core condition EXCELLENT Date Described 22 June 76 by J. Broda
Physiographic location BERMUDA RISE.

Lithologic Log




### Detailed Description

0-100
CALC OOZE
7.5 YR 5/4 brown grades to 10 YR 6/4 light yellowish brown and back to 7.5 YR 5/4 brown in two sequential patterns
common, faint intermottling of the colors above especially in the gradational interfaces
moist, slightly silty lutite with foram content ranging from scattered to abundant
Sharp - irregular and mottled

100-198
UNFOSSILIFEROUS CLAY WITH MOTTLES AND INCLUSIONS OF Mn MICRONODULES
5 Y 6/3 pale olive and 2.5 Y 6/4 light yellowish brown
common alternation of small zones of the above colors throughout the unit; heavily mottled with dark olive gray and black, slick, Mn-rich lutite; a bit of brown intermottling is found at upper unit contact
more compact but slick lutite with a few scattered, lithified lumps throughout

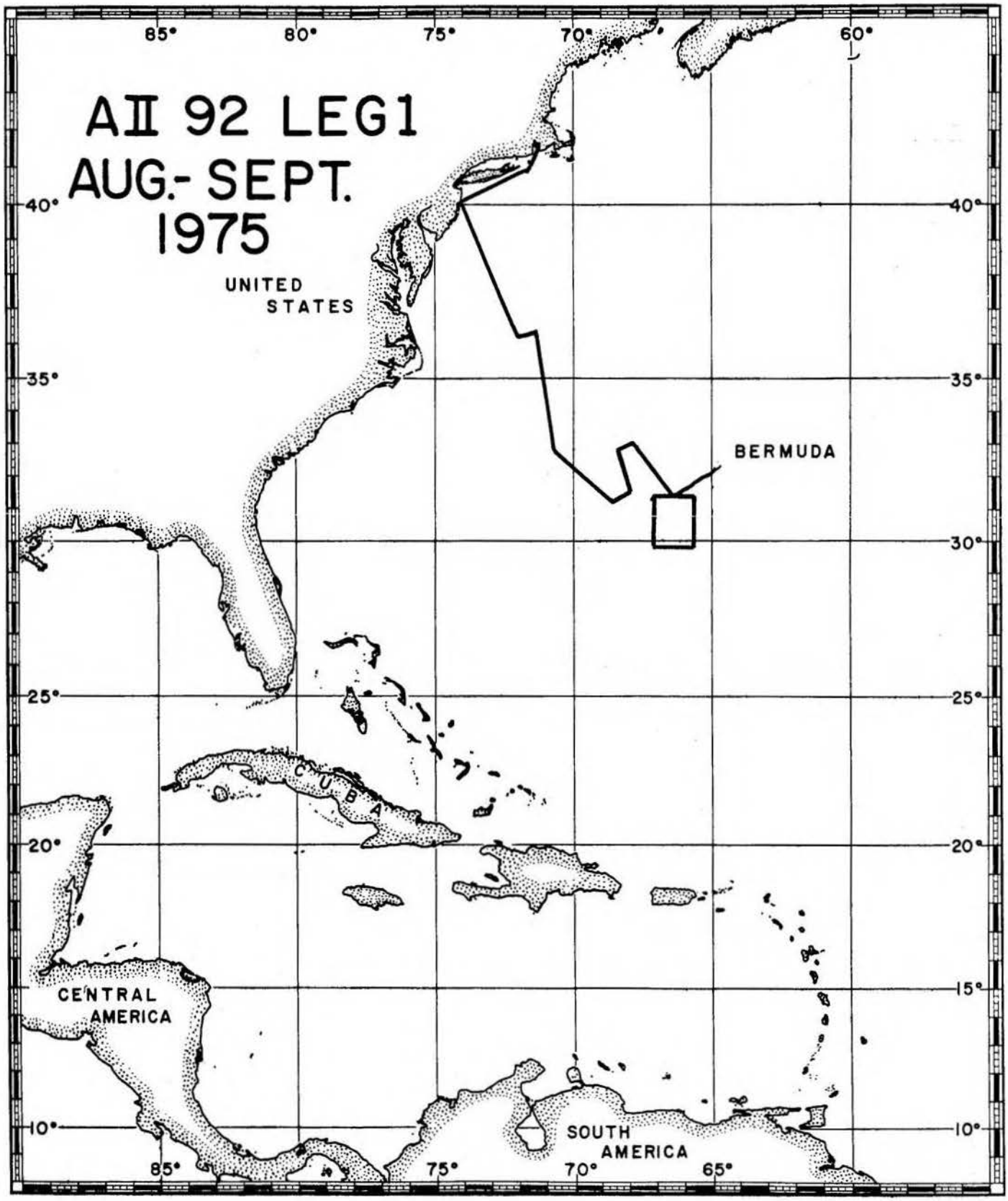
end of core



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

Ship: AII Core No. 8 GC
Expedition 85 Station No. 8
Leg No. 1 Total Core Length 198 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | tr | | | 32 | 8 | 45 | | | 12 | | | |
| 95 | calc ooze | 4 | 5 | | | 23 | 12 | 50 | | | 6 | | | |
| 105 | unfoss clay | 6 | 5 | | | 89 | | | | | tr | | | |
| 134 | unfoss clay/ Mn micronodls | tr | 55 | | | 45 | | | | | tr | | | |
| 197 | unfoss clay | 8 | 5 | | | 87 | | | | | tr | | | |

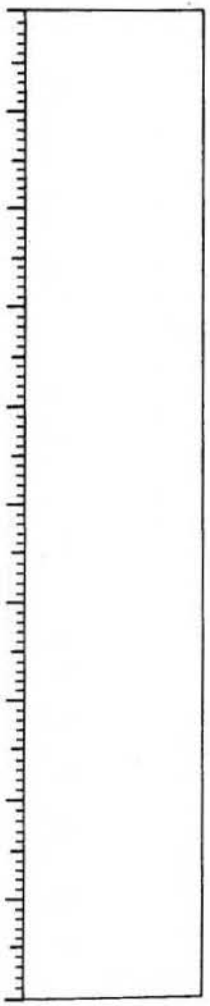

AII 92 LEG1
AUG.- SEPT.
1975
UNITED
STATES
BERMUDA
CUBA
CENTRAL
AMERICA
SOUTH
AMERICA
85°
80°
75°
70°
60°
40°
35°
30°
25°
20°
15°
10°
85°
75°
70°
65°

## VISUAL CORE DESCRIPTION

Page 3 of 3

Ship CHAIN Cruise 115 Leg 1 Sta. 2 Core No. 2 PC

Lithologic Log



### Detailed Description

679-785
SLIGHTLY CALC CLAY
10YR 4/2 dark brownish gray
faint shadowy dark gray and reddish brown irregular mottle
moist slightly silty lutite with a few scattered forams
end of core



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

Ship: Chain Core No. 2 PC

Expedition 115 Station No. 2

Leg No. 1 Total Core Length 785 cm

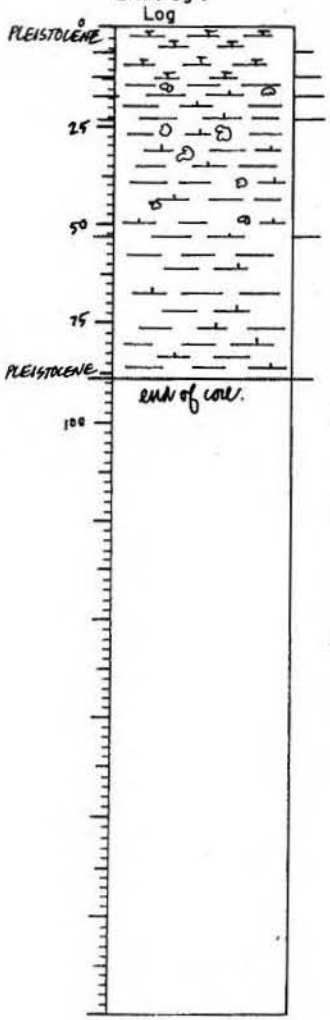
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze with det | 15 | 2 | | | 53 | 20 | 5 | | | 5 | tr | | |
| 20 cm | calc clay with det | 18 | 2 | | | 74 | 1 | 3 | | | 2 | tr | | tr |
| 70 cm | sl calc clay | 8 | 3 | | | 86 | tr | 2 | | tr | 1 | tr | | tr |
| 170 cm | sl calc clay with det | 20 | 2 | | | 74 | tr | 2 | | | 2 | tr | | tr |
| 270 cm | sl calc clay | 6 | 2 | | | 90 | | 1 | | | 1 | | | tr |
| 335 cm | hly calc clay | 8 | 1 | | | 63 | 12 | 10 | | | 6 | | | tr |
| 415 cm | calc ooze | 8 | 1 | | | 60 | 15 | 10 | | | 6 | | | |
| 515 cm | hly calc clay | 15 | 1 | | | 59 | tr | 20 | | | 5 | | | tr |
| 615 cm | unfoss clay | 20 | 3 | | | 77 | tr | tr | | | tr | | | |
| 675 cm | unfoss clay/det | 40 | 2 | | | 58 | | | | | tr | | | |
| 784 cm | sl calc clay | 10 | 4 | | | 82 | tr | 4 | | | tr | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 2 Core No. 2PG
Total Length 88 cm. Lat. 39° 20.6'N Long. 67° 08.0'W Depth 2415 m corr.
Core condition EXCELLENT Date Described 8 APRIL 75 by J. Broda
Physiographic location MYTILUS SEAMOUNT... NEW ENGLAND SEAMOUNT CHAIN

Lithologic Log




### Detailed Description

0-6
CALC OOZE
10YR 5/2 grayish brown
compact foram sand
2.5 mm to 5 mm diameter black pebbles scattered throughout
S

6-12
CALC OOZE
10YR 6/4 light yellowish brown
moist foram sand
scattered pebbles up to 5 mm diameter, also one large 3 cm x 2 cm lithified clay lump
S mottled

12-17
SL CALC CLAY
7.5YR 5/4 brown
common light yellowish brown mottling
scattered forams in silty lutite, abund. forams in mottles at upper unit contact
very G

17-23
SL CALC CLAY
10YR 5/3 brown
stiffer silty lutite with scattered forams, black flecks and small pebbles
S mottled

23-53
CALC CLAY
2.5Y 5/2 grayish brown
common, large, brown mottling 23-33 cm, very faint brown common mottling 30-46 cm
silty lutite with scattered black flecks throughout
S textural

53-88
SL CALC CLAY
5Y 5/1 gray
homogeneous throughout
very slick moist lutite
lithified clay fragments, 5 mm diameter at 54 cm, small lithified lumps scattered elsewhere in unit
end of core



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

Ship: Chain Core No. 2 PG
Expedition 115 Station No. 2
Leg No. 1 Total Core Length 88 cm

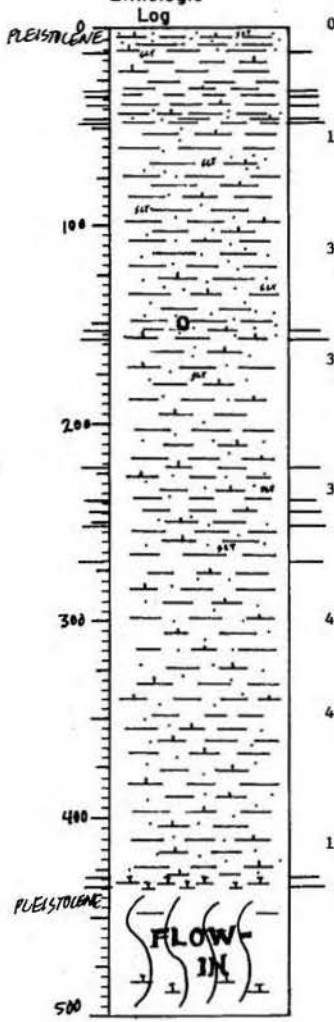
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 3 | 2 | | | 40 | 40 | 10 | | | 5 | tr | | tr |
| 16 cm | sl calc clay | 8 | 2 | | | 85 | 1 | 3 | | | 1 | tr | | |
| 50 cm | calc clay | 10 | 3 | | | 79 | 1 | 5 | | | 2 | | | tr |
| 87 cm | sl calc clay | 5 | 1 | | | 90 | tr | 2 | | | 2 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 3 Core No. 3PC
Total Length 645 cm. Lat. 39°20.1'N Long. 67°07.9'W Depth 2518 m.corr.
Core condition EXCELLENT Date Described 10 APRIL 75 by J. Dude
Physiographic location MYTILUS SEAMOUNT.... NEW ENGLAND SEAMOUNT CHAIN.

Lithologic Log




### Detailed Description

0-11
SLIGHTLY CALC CLAY WITH DETRITUS
10YR 5/1 gray
moist silty lutite
somewhat disturbed 0-3 cm
G textural

11-30
SLIGHTLY CALC CLAY
7.5Y 5/2 brown
slick lutite with bands of silty gray lutite throughout
dark gray lithified nodules at 18 and 24 cm
G

30-33
UNFOSS CLAY
5Y 5/2 olive gray
moist slick lutite with intrusions of light brownish gray foram sand
G

33-37
SLIGHTLY CALC CLAY
5Y 5/3 olive gray
common marbling 5/6 olive
slick lutite with scattered forams
fine (2.5mm) lithified lamination at 37 cm
S

37-45
SLIGHTLY CALC CLAY WITH DETRITUS
2.5Y 5/2 grayish brown
silty lutite with scattered black flecks and forams
enormous 4 cm x 5 cm very silty, stiff olive lithified lump dominates unit.
S

45-48
UNFOSS CLAY
5Y 5/3 olive
slick compact lutite
S

48-154
SLIGHTLY CALC CLAY WITH DETRITUS
5Y 4/2 olive gray
moist lutite with varying degrees of silt content 48-80 cm, consistently silty from 80- 154 cm
scattered small pebbles and lithified lumps, 100-145 cm
S

154-157
CALC CLAY/DETRITUS
5Y 5/2 olive gray
silty, almost pebbly lutite (very stiff)
large 3 cm x 3 cm x 1 cm glacial erratic within
S

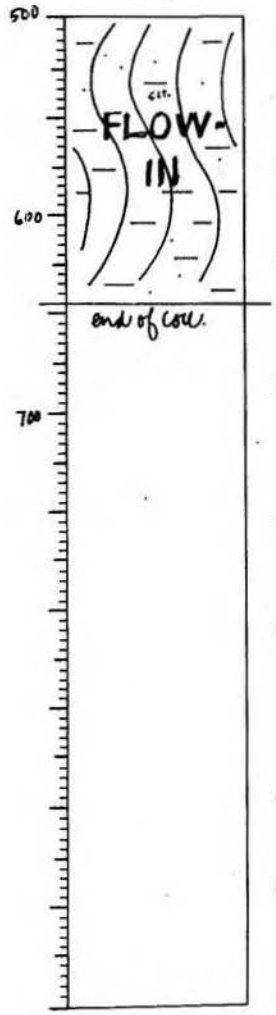


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 3 Core No. 3PC

Lithologic Log




### Detailed Description

157-222
CALC CLAY WITH DETRITUS
5Y 4/2 olive gray grades to 7.5 YR 4/2 dark brown
very faint brown laminations and marbling throughout
moist silty lutite with scattered forams and black flecks
splotches and clusters of black flecks 190-210 cm
G

222-238
SLIGHTLY CALC CLAY WITH DETRITUS
7.5YR 5/2 brown
very silty lutite with scattered forams grading to very abund.
G

238-244
SLIGHTLY CALC CLAY WITH DETRITUS
10YR 7/3 very pale brown and 5/4 yellowish brown
extensive marbling of the two colors above
very pale brown foram sand mixed with yellowish brown silty lutite
S

244-252
SLIGHTLY CALC CLAY WITH DETRITUS
5 YR 4/4 reddish brown
a bit of intermottling of foram sand with above unit at upper contact
silty lutite with scattered forams
S

252-270
SLIGHTLY CALC CLAY WITH DETRITUS
2.5Y 4/4 olive brown
silty lutite with a few large detrital grains scattered 262-270 cm
very G

270-429
CALC CLAY WITH DETRITUS
varying hues of 10YR 4/2 dark grayish brown and 7.5YR 4/4 dark brown
slight faint light gray and dark gray mottling found scattered throughout
silty lutite with foram varying slightly throughout from scattered to abund. in a few places
S textural

429-434
CALC OOZE
10YR 6/2 light brownish gray
very silty foram sand mixed a bit with lutite at base
S, irregular

433-645
UNFOSS CLAY WITH DETRITUS
5Y 3/2 dark olive gray and 4/2 olive gray
Note; Core is disturbed from here to end. Flow in appears to begin at 435 cm but there is a fairly well oriented (but sucked through) bed of foram sand from 480-495 cm.

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

Ship: Chain  Core No. 3 PC

Expedition 115  Station No. 3

Leg No. 1  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 |
| 1 cm | sl calc clay with det | 18 | 2 | | | 77 | tr | 3 | | | 1 | | | |
| 33 cm | unfoss clay | 8 | 2 | | | 90 | | | | | tr | | | |
| 100 cm | sl calc clay with det | 15 | 2 | | | 79 | | 4 | | | tr | | | tr |
| 200 cm | calc clay with det | 17 | 1 | | | 76 | | 5 | | | 1 | | | |
| 250 cm | sl calc clay with det | 20 | 1 | | | 75 | tr | 2 | | | 2 | | | |
| 300 cm | calc clay with det | 15 | 2 | | | 74 | 1 | 7 | | | 1 | | | |
| 400 cm | calc clay with det | 18 | 1 | | | 74 | 1 | 5 | | | 1 | | | |
| 450 cm | unfoss clay with det | 22 | 1 | 1 | | 76 | | tr | | | tr | | | |
| 644 cm | unfoss clay with det | 25 | 1 | 1 | | 73 | | tr | | tr | | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

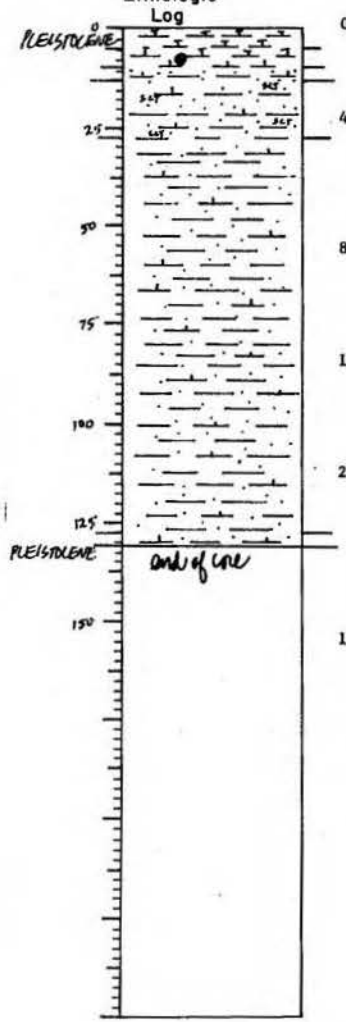
Ship CHAIN Cruise 115 Leg 1 Sta. 3 Core No. 3PG

Total Length 131 cm. Lat. 39° 20.1'N Long. 67°07.9'W Depth 2510 m corr.

Core condition EXCELLENT Date Described 18 April 75 by J. Bruder

Physiographic location MYTILUS SEAMOUNT... NEW ENGLAND SEAMOUNT CHAIN.

Lithologic Log




Detailed Description

0-4
CALC OOZE
10YR 5/2 grayish brown
compact foram sand with small black detrital (Mn) flecks
G

4-8
CALC OOZE
2.5Y 5/2 grayish brown
foram sand grades to moist slick lutite with very abund. forams
large 3 cm x 1 cm ice rafted glacial erratic 4-7 cm
G

8-10
SLIGHTLY CALC CLAY WITH DETRITUS
10YR 5/2 grayish brown
moist slick lutite with very few forams and scattered black flecks
S, H

10-27
SLIGHTLY CALC CLAY WITH DETRITUS
10YR 5/1 gray
moist slick lutite with a thin (5 mm) band of extremely abund. forams (13 cm) and lithified laminations at 23 cm & 25 cm
S textural

27-127
CALC CLAY WITH DETRITUS
10YR 5/1 gray
silty lutite with abund. black flecks except for band 100-112 cm of very moist slick lutite with no flecks
scattered small (2.5-5 mm) ice rafted debris throughout, small lithified nodules present 50-100 cm, large lithified lump at 115 cm, large pebble (2 cm diameter) at 117 cm.
S

127-131
SLIGHTLY CALC CLAY WITH DETRITUS
2.5YN4/ dark gray
one large brown 7.5Y 5/2 mottle
slick lutite with dominant very stiff lithified mottle at upper unit contact
3 cm diameter quartz pebble (ice rafted) 128-131 cm
end of core

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

Ship: Chain  Core No. 3 PG

Expedition 115  Station No. 3

Leg No. 1  Total Core Length 131 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 7 | 1 | | | 27 | 40 | 20 | | | 5 | | | |
| 20 cm | sl calc clay with det | 20 | 1 | | | 78 | tr | 1 | | | tr | | | |
| 100 cm | calc clay with det | 16 | 2 | | | 73 | 1 | 5 | | | 3 | | | |
| 130 cm | sl calc clay with det | 18 | 1 | | | 78 | tr | 2 | | | tr | | | |



VISUAL CORE DESCRIPTION



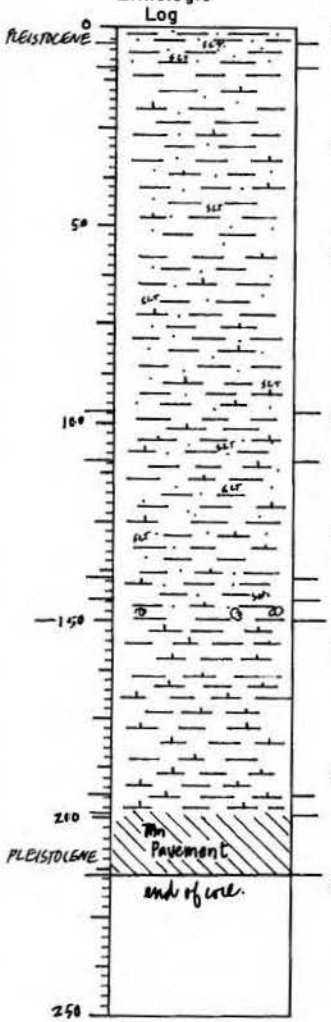
Ship CHAIN Cruise 115 Leg 1 Sta. 4 Core No. 4PC

Total Length 213 cm. Lat. 39° 20.1'N Long. 67° 08.1'W Depth 2536 m corr.

Core condition EXCELLENT Date Described 11 APRIL 75 by J. Grosslin

Physiographic location MYTILUS SEAMOUNT.. NEW ENGLAND SEAMOUNT CHAIN.

Lithologic Log




Detailed Description

0-3
UNFOSS CLAY WITH DETRITUS
5Y 4/3 olive
compact silty lutite with black flecks thinly laminated throughout
S

3-8
UNFOSS CLAY WITH DETRITUS
10YR 4/2 dark grayish brown
silty lutite with small lithified olive and brown nodules scattered throughout
S,H

8-97
SLIGHTLY CALC CLAY WITH DETRITUS
varying hues of 5Y 4/2 olive gray and 10YR 4/2 dark grayish brown
moist silty lutite with pebbles (1 cm x .5cm) and lithified nodules scattered throughout
at 92 cm a 5Y 2/1 black very silty lithified inclusion (Mn) 1 cm diameter
S

97-109
SLIGHTLY CALC CLAY
10YR 3/3 dark brown
smooth lutite with scattered forams and 1-2 mm olive gray lithified inclusions
G

109-139
SLIGHTLY CALC CLAY WITH DETRITUS
5Y 5/2 olive gray
silty lutite with one slick gray band 134-139 cm
large lithifications; olive gray at 109 cm and brown at 110
S

139-144
SLIGHTLY CALC CLAY WITH DETRITUS
2.5Y 6/2 light brownish gray
light gray foram sand lamination 143-144 cm
foram sand with small percentage of lutite at base and numerous black flecks
S

144-150
SLIGHTLY CALC CLAY WITH DETRITUS
7.5YR 5/4 brown
common foram rich light gray mottling throughout
firm compact lutite with abund. forams
S

150-194
HLY CALC CLAY WITH DET
7.5YR 5/2 brown
faint pinkish gray marbling throughout
compact lutite with abund. forams and thin laminations and streaks of black flecks

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 4 Core No. 4PC

Lithologic Log

Detailed Description

scattered small 5mm-7.5mm ice rafted pebbles
S
194-199
HLY CALC CLAY WITH DETRITUS
2.5Y 5/2 grayish brown
moist soupy lutite with very abund. forams
numerous sharply fractured fragments of Mn throughout
S
199-213
MN PAVEMENT
5Y 2/1 black
Mn pavement perfectly penetrated and recovered by core cutter
end of core



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

Ship: Chain Core No. 4 PC

Expedition 115 Station No. 4

Leg No. 1 Total Core Length 213 cm

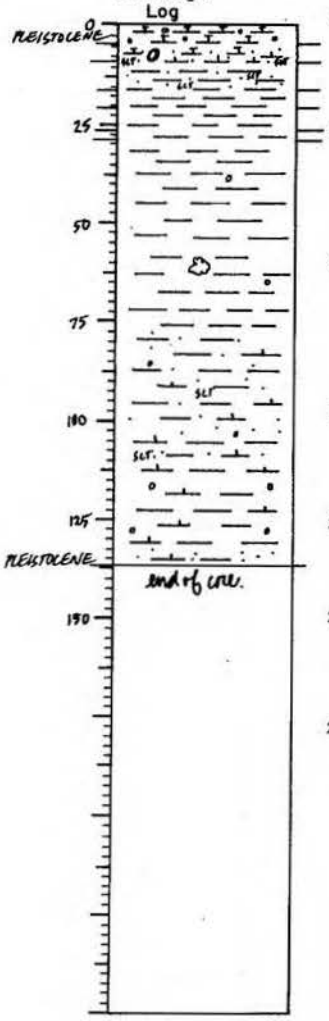
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | unfoss clay with det | 16 | 2 | tr | | 82 | | tr | | | tr | | | |
| 50 cm | sl calc clay with det | 20 | 8 | tr | | 70 | tr | 1 | | | 1 | | | |
| 91 cm | Mn/det | 40 | 50 | | | 10 | | | | | tr | tr | | |
| 150 cm | sl calc clay with det | 20 | 6 | tr | | 72 | tr | 1 | | | 1 | | | |
| 200 cm | hly calc clay with det | 18 | 8 | | | 49 | 3 | 20 | | | 2 | | | |
| 212 cm | Mn pavement | | 100 | | | | | | | | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 4 Core No. 4PG
Total Length 137 cm. Lat. 39° 20.1'N Long. 67°08.1'W Depth 2536 m. corr.
Core condition EXCELLENT Date Described 11 APRIL 75 by J. Sieda
Physiographic location MYTILUS SEAMOUNT... NEWENGLAND SEAMOUNT CHAIN.

Lithologic Log




### Detailed Description

0-4
CALC OOZE
10YR 6/2 light brownish gray
moist foram sand with 1-2 mm sized pebble grains common throughout
G

4-8
CALC OOZE WITH DETRITUS
10YR 5/4 yellowish brown
foram sand grades to slick lutite with abund. forams, 2.5-5 mm diameter pebbles scattered throughout
ice rafted pebble, 1.5 cm x 1 cm between 5 and 7 cm
S textural

8-16
UNFOSS CLAY WITH DETRITUS
10YR 5/4 yellowish brown
5 mm lamination of partially lithified lutite, 7.5Y 5/4 brown at 10 cm also fine marbling and laminae of same color 14-16 cm
moist slick lutite
G

16-21
UNFOSS CLAY
5Y 5/2 olive gray
very fine brown lamination at 17 cm
moist slick lutite
S textural

21-26
UNFOSS CLAY
5Y 4/4 olive
silty lutite with abund. black flecks
S textural

26-29
UNFOSS CLAY
5Y 5/2 olive gray
watery band of coarse detrital grains and black flecks, also a somewhat graded bed of 1-2 mm sized grains 28-28.5 cm
S textural

29-137
UNFOSS CLAY GRADES TO CALC CLAY
2.5Y 5/2 grayish brown
1 brown mottle at 60 cm
moist lutite with varying amounts of silt, more compact at 117-120 cm, more silt in the zones 77-117 cm, 133-135 cm
ice rafted debris common throughout, plus a 1 cm diameter lithified lump at 60 cm
end of core



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

Ship: Chain Core No. 4 PG
Expedition 115 Station No. 4
Leg No. 1 Total Core Length 137 cm

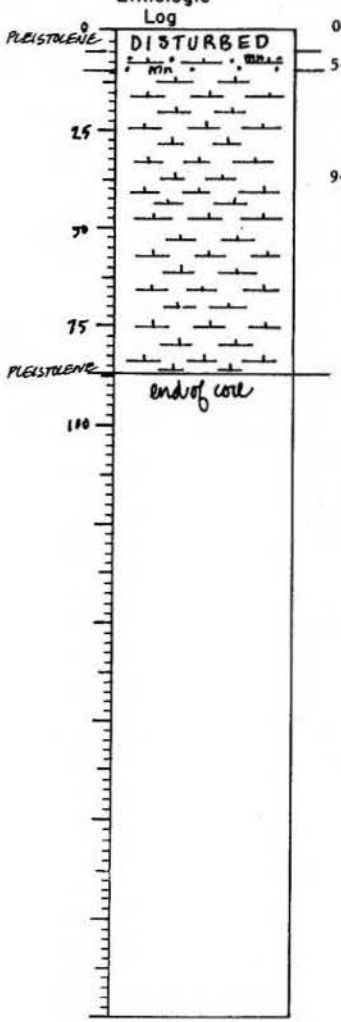
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 2 | 1 | | | 17 | 50 | 25 | | | 5 | | | |
| 10 cm | unfoss clay with det | 16 | 2 | | | 82 | | tr | | | tr | | | |
| 70 cm | unfoss clay | 14 | 2 | | | 84 | | tr | | | tr | | | |
| 132 cm | calc clay | 4 | 1 | | | 78 | tr | 15 | | | 2 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 5 Core No. 5PC
Total Length 87 cm. Lat. 09°46.37'N Long. 25°59.14'W Depth 5644m corr.
Core condition EXCELLENT Date Described 15 April 75 by J. Broda
Physiographic location GAMBIA ABYSSAL PLAIN.

Lithologic Log




### Detailed Description

0-5
WASHED AND DISTURBED

5-9
CALC OOZE
10YR 6/3 pale brown, 5/3 brown, 4/3 dark brown
innumerable fine microlamination of all colors above
moist slick lutite
S, H

9-87
CALC OOZE
2.5Y 5/2 grayish brown
homogeneous throughout
very moist slick lutite
end of core
Note; the bottom four sections of this core were lost during recovery as core cutter sheared off upon pullout.



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

Ship: Chain Core No. 5 PC
Expedition 115 Station No. 5
Leg No. 1 Total Core Length 87 cm

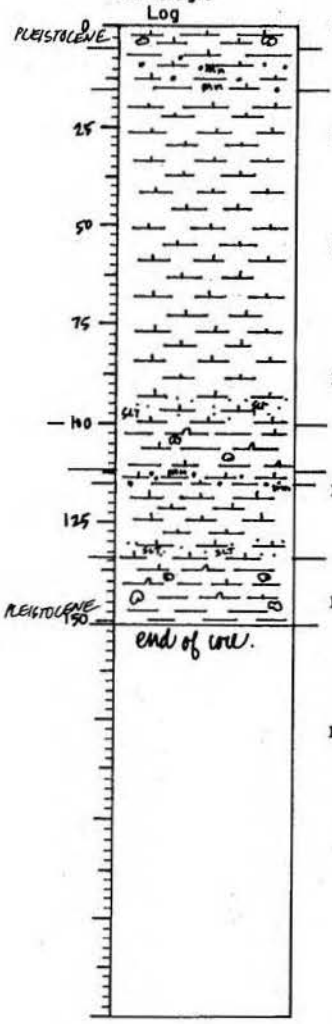
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 6 cm | calc ooze | 1 | 8 | | | 56 | 1 | 30 | | 1 | 3 | | | |
| 50 cm | calc ooze | 6 | 5 | | tr | 46 | 1 | 35 | | tr | 5 | 1 | | 1 |
| 86 cm | calc ooze | 5 | 4 | | tr | 46 | 3 | 35 | | tr | 5 | 1 | | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 5 Core No. 5PG
Total Length 151 cm. Lat. 09° 46.37'N Long. 25° 59.8'W Depth 5644 m corr.
Core condition EXCELLENT Date Described 15 April 77 by J. Bruda.
Physiographic location GAMBIA ABYSSAL PLAIN.

Lithologic Log




### Detailed Description

0-5
CALC OOZE
10YR 6/4 light yellowish brown
faint brown mottling common throughout
moist slightly silty lutite with scattered forams
very G

5-15
HIGHLY CALC CLAY WITH Mn MICRO NODULES
10YR 6/3 pale brown, 10YR 5/3 brown and 4/3 dark brown
innumerable fine microlaminations of the colors above
moist slick lutite
S, H

15-100
CALC OOZE
2.5Y 5/2 grayish brown
homogeneous 15-90 cm, inclined and irregular, lighter silty lamination 90-100 cm
very moist slick lutite 15-90 cm, very silty lutite 90-100 cm
S, H

100-112
HIGHLY CALC SILIC CLAY
10YR 6/3 pale brown
common light gray and gray mottling throughout
firm compact slightly silty lutite with fairly abund. forams
S

112-115
HIGHLY CALC CLAY WITH Mn MICRONODULES
10YR 6/3 pale brown, 5/3 brown, 4/3 dark brown
complete fine intermicrolamination of the colors above
moist slick lutite
S, H

115-134
CALC OOZE
2.5Y 5/2 grayish brown
homogeneous 115-133 cm, irregular lighter silty laminations 133-134 cm
moist slick lutite 115-133 cm, very silty 133-134 cm
S, H

134-151
HIGHLY CALC -SILIC CLAY, GRADES TO UNFOSS CLAY
10YR 6/3 pale brown
common light gray and gray mottling throughout
firm, compact, slightly silty lutite with abund. forams
end of core

Note; Due to a repetitive occurrence of similar lithologies this core is suspected to be an example of a multiple penetration (pilot core rebound) recovery; 1st penetration 0-112 cm, 2nd penetration 112-151 cm, the second penetration has all features of the first but has been greatly compacted due to the resistance offered by the sediment already in the liner.



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

Ship: Chain Core No. 5 PG
Expedition 115 Station No. 5
Leg No. 1 Total Core Length 151 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 5 | 10 | | tr | 49 | 1 | 30 | | tr | 5 | | | |
| 12 cm | hly calc clay with Mn micro. | 2 | 18 | | | 54 | 1 | 22 | | tr | 3 | | | |
| 50 cm | calc ooze | 5 | 5 | | tr | 48 | 1 | 35 | | | 5 | 1 | | tr |
| 95 cm | detritus | 80 | 4 | | | 5 | 8 | | | | 3 | | | |
| 110 cm | highly calc-silic clay | 2 | 1 | | | 67 | 10 | 15 | | tr | 3 | 1 | | 1 |
| 125 cm | calc ooze | 5 | 4 | | | 46 | 1 | 35 | | tr | 5 | 1 | | 1 |
| 150 cm | unfoss clay | 2 | 2 | | | 96 | tr | tr | | tr | tr | tr | | tr |

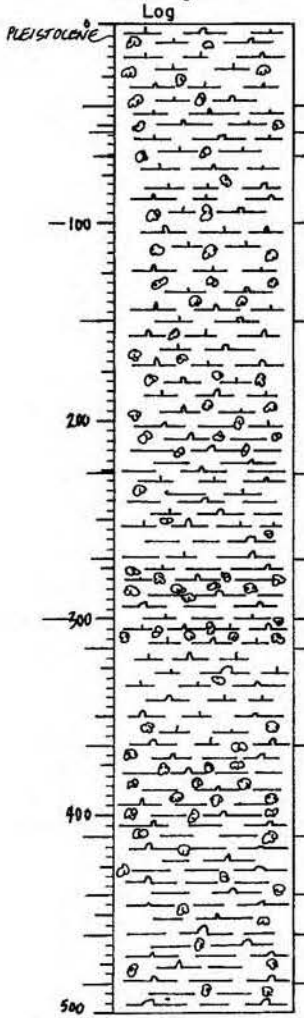
212

## VISUAL CORE DESCRIPTION

Page 1 of 3

Ship CHAIN Cruise 115 Leg 1 Sta. 6 Core No. 6PC
Total Length 870 cm. Lat. 09°30.0'N Long. 22° 01.0'W Depth 4800m. corr.
Core condition EXCELLENT Date Described 16 April 75 by J. Rasda.
Physiographic location GAMBIA ABYSSAL PLAIN.

Lithologic Log




### Detailed Description

0-40
CALC SILIC OOZE
10YR 4/4 dark yellowish brown
extensive marbling and mottling with dark brown, very dark grayish brown and gray
very moist slick lutite with scattered forams, 0-6 cm and a pocket of foram sand 35-39 cm
G mottled

40-54
CALC SILIC OOZE
10YR 4/2 dark grayish brown
extensive brown and grayish brown mottling throughout
moist slick lutite with scattered forams
S mottled

54-66
CALC SILIC OOZE
10YR 6/4 light yellowish brown
extensive gray and grayish brown mottling and marbling
moist slick lutite with a few forams
S mottled

66-100
SILIC CALC OOZE
2.5Y 3/2 very dark grayish brown
extensive light yellowish brown and light brownish gray mottling 82-100 cm
moist slightly silty lutite with scattered forams
S mottled

100-150
SILIC CALC OOZE
10YR 6/3 pale brown grades to 5/4 yellowish brown
extensive pale brown and light brownish gray mottling
scattered forams throughout, slightly silty more compact lut.
S mottled

150-226
SILIC CALC OOZE GRADES TO SILIC CLAY
10YR 6/4 light yellowish brown grades to 6/2 light brownish gray
very extensive dark gray and grayish brown mottling and marbling throughout
moist slick lutite with a few forams
S

226-270
HIGHLY CALC SILIC CLAY
10YR 6/4 light yellowish brown grades to 5/6 yellowish brown
slight gray and light gray mottling
moist more compact lutite with abund. forams
excellent foram rich gray burrow spans entire liner at unit basal contact
S inclined 10°

270-300
HIGHLY CALC SILIC CLAY
10YR 5/8 yellowish brown
intensively mottled with light and dark grays 273-290 cm
moist slightly silty lutite with abund. forams

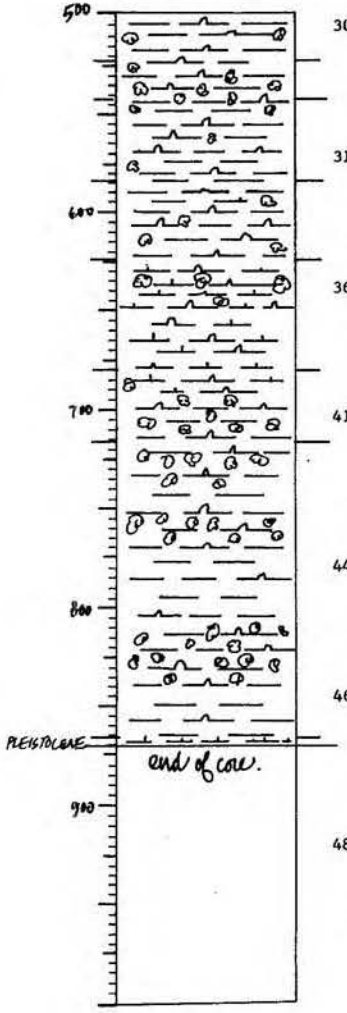
213

## VISUAL CORE DESCRIPTION

Page 2 of 3

Ship CHAIN Cruise 115 Leg 1 Sta. 6 Core No. 6PC

Lithologic Log




### Detailed Description

G mottled

300-315
CALC SILIC OOZE
10YR 6/3 pale brown grades to 5/2 grayish brown
extensive faint very pale brown and light yellowish brown mottling
very abund. forams in moist silty lutite
S mottled

315-365
CALC SILIC OOZE
10YR 6/6 brownish yellow grades to 5/4 yellowish brown
slight faint light gray and very pale brown mottling
slick moist lutite with a few forams included in the mottles
large 1cm x 2 cm lithified lump at 340 cm
G mottled

365-410
SILIC CLAY
10YR 5/4 yellowish brown
very extensive large and small dark gray and grayish brown mottling
stiffer more compact lutite with very few forams
G mottled

410-440
SILIC CLAY
10YR 5/6 yellowish brown grades to 4/3 brown
common light gray and dark grayish brown mottling
compact lutite with a few partially lithified inclusions
2mm lithified concave upward yellowish brown lamination at 431 cm
G

440-460
SILIC CLAY
10YR 5/2 grayish brown grades to 3/1 very dark gray
slight faint pale brown mottling throughout
smooth compact lutite grades to slightly silty lutite with scattered forams
S mottled

460-485
SILIC CLAY
10YR 6/3 pale brown grades to 6/4 light yellowish brown
slight gray mottling throughout, extensive in the zone 477-482 cm
very compact lutite with a few forams scattered, more abund. at upper contact
S mottled

485-522
SILIC CLAY
10YR 5/1 gray and 4/1 dark gray
a few large elliptical dark gray mottles
moist less consolidated lutite with a few forams
repeated, lithified, almost dry, olive gray 2 mm thick laminae
S mottled

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 6 Core No. 6PC

Lithologic Log

### Detailed Description

522-542
SILIC CLAY
10YR 5/2 grayish brown grades to 6/3 pale brown
extensive large, gray and gray – brown mottling throughout
slick but compact lutite with scattered forams in mottles
S

542-584
SILIC CLAY GRADES TO SLIGHTLY SILIC CLAY
10YR 5/4 yellowish brown grades to 6/3 pale brown
very faint light gray mottling found commonly 557-575 cm
moist compact slightly silty lutite with scattered forams grades to abund.
G

584-624
SLIGHTLY SILIC CLAY GRADES TO SILIC CLAY
7.5YR 5/6 strong brown grades to 5/4 yellowish brown
slight gray and grayish brown mottling
smooth compact lutite
very fine, brittle black lamination 0.5mm, spans entire liner at 598 cm, semilithified sediment found 2 mm above and below laminated pavement, another large laminated lithification 602-604 cm spans liner, some what concave upward. the entire zone is very compact, almost dry and slightly disturbed in coring
G

624-680
CALC SILIC OOZE
10YR 6/3 pale brown
massive dark grayish brown mottles and burrows dominate the zone 630-645 cm
compact slightly silty lutite with scattered forams more abund. 624-645 cm
G mottled

680-716
CALC SILIC OOZE GRADES TO SLIGHTLY SILIC CLAY
10YR 5/1 gray grades to 5/2 grayish brown
extensive light gray and dark gray marbling and mottling throughout
compact slightly silty foram rich lutite
G

716-866
SLIGHTLY SILIC CLAY
10YR 6/4 light yellowish brown grades to 6/3 pale brown
common gray and dark gray mottling throughout, very extensive and dominant in the zones, 716-738, 750-776, 815-840 cm
firm very compact silty lutite with scattered forams mostly in mottled zones
G

866-870
NANNO OOZE
10YR 7/4 very pale brown
extensive light gray mottling and burrowing
firm slightly silty lutite with scattered forams
end of core



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

Ship: Chain Core No. 6 PC

Expedition 115/1 Station No. 6

Leg No. _____ Total Core Length 870 cm

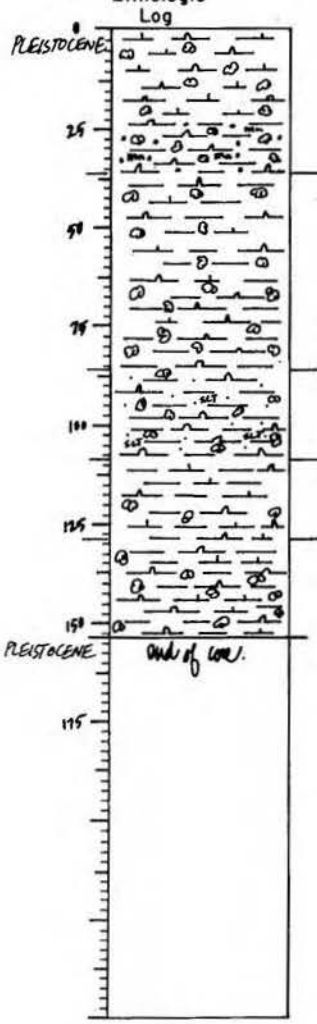
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc silic ooze | 2 | 2 | | | 55 | 6 | 25 | | | 4 | 4 | | 2 | |
| 75 cm | silic calc ooze | 3 | tr | | | 57 | 3 | 15 | | | 2 | 18 | tr | 12 | tr |
| 90 cm | silic calc ooze | 5 | | | | 50 | 4 | 12 | | | 3 | 20 | 2 | 3 | 1 |
| 200 cm | silic clay | 3 | 1 | | | 89 | | | | | tr | 6 | tr | 1 | tr |
| 290 cm | hly calc silic clay | 8 | 3 | | | 68 | 5 | 7 | | | 6 | 1 | | 2 | tr |
| 317 cm | calc silic ooze | 1 | tr | | | 61 | 8 | 20 | | | 3 | 5 | tr | 2 | tr |
| 390 cm | silic clay | 2 | 1 | | | 90 | | tr | | tr | tr | 4 | 1 | 2 | tr |
| 490 cm | silic clay | 5 | 2 | | | 87 | | | | | tr | 5 | tr | 1 | tr |
| 595 cm | sl silic clay | 8 | 2 | | | 85 | | | | | tr | 4 | tr | 1 | tr |
| 610 cm | silic clay | 6 | | | 2 | 86 | | | | | tr | 5 | tr | 1 | tr |
| 650 cm | calc silic ooze | 3 | | | tr | 48 | 1 | 35 | | | 2 | 8 | 1 | 1 | 1 |
| 750 cm | sl silic clay | 4 | 1 | | | 90 | | | | | tr | 4 | tr | 1 | tr |
| 869 cm | nanno ooze | 2 | tr | | | 12 | 5 | 75 | | | 3 | 2 | tr | 1 | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 6 Core No. 6PG
Total Length 153 cm. Lat. 04°30.0'N Long. 22°01.0'W Depth 4800m.corr.
Core condition EXCELLENT. Date Described 16 April 75 by J. Grooke.
Physiographic location GAMBIA ABYSSAL PLAIN.

Lithologic Log




### Detailed Description

0-36
CALC SILIC OOZE GRADES TO SILIC CLAY WITH Mn MICRONODULES
10YR 4/4 dark yellowish brown
extensive brown and yellowish brown mottling and marbling
slick moist lutite with scattered forams most abund. at top of core
lamination of slick black flecks 20-22 cm, 34-36 cm
G mottled

36-86
HIGHLY SILIC CALC CLAY
2.5Y 3/2 very dark grayish brown grades to 4/2 dark grayish brown
very extensive brown and yellowish brown mottling and marbling
slick moist lutite with a few scattered forams
G mottled

86-108
SILIC CLAY WITH DETRITUS
10YR 6/3 pale brown grades to 5/6 yellowish brown
extensive brownish yellow, light yellowish brown and light gray mottling and marbling throughout
moist slightly silty lutite, forams very abund. 86-93 cm, absent thereafter
G

108-128
HIGHLY CALC SILIC CLAY
10YR 4/2 dark grayish brown
common pale brown mottling 120-128 cm
moist slightly silty lutite with a few forams
G

128-153
HLY CALC SILIC CLAY
10YR 6/4 light yellowish brown grades to 6/3 pale brown
very extensive light gray and grayish brown mottling and burrowing
moist slightly silty lutite with scattered forams
end of core



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

Ship: Chain Core No. 6 PG
Expedition 115 Station No. 6
Leg No. 1 Total Core Length 153 cm

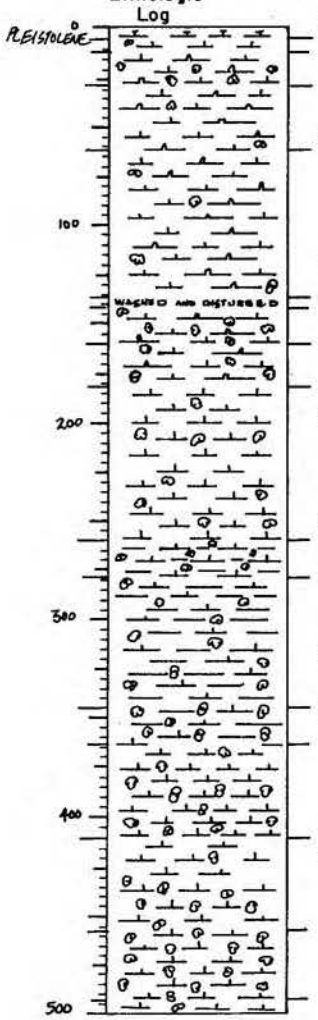
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges. | silicoflags |
| 1 cm | calc silic ooze | 2 | 8 | | | 42 | 5 | 20 | | | 4 | 15 | tr | 3 | 1 |
| 35 cm | silic clay/ Mn micro | 5 | 35 | | | 45 | | | | | tr | 14 | tr | 1 | tr |
| 50 cm | hly silic calc clay | 2 | 5 | | | 72 | tr | 3 | | tr | 1 | 13 | 2 | 1 | 1 |
| 100 cm | silic clay with det | 15 | 3 | | | 75 | | | | | tr | 6 | tr | 1 | tr |
| 152 cm | hly calc silic clay | 5 | 1 | | | 77 | 3 | 7 | | tr | 3 | 4 | tr | tr | tr |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 7 Core No. 7PC
Total Length 870 cm. Lat. 09° 08.0'N Long. 20° 03.1'W Depth 3806 m. corr.
Core condition EXCELLENT Date Described 17 April 75 by J. Broda
Physiographic location SIERRA LEONE RISE.

Lithologic Log




### Detailed Description

0-5
CALC OOZE
10YR 7/3 very pale brown
moist foram sand
entire unit somewhat washed and reworked
S textural

5-17
CALC OOZE
10YR 6/4 light yellowish brown
faint irregular light gray mottling and marbling
very moist unconsolidated lutite with scattered forams, abund. mottles
G mottled

12-27
CALC SILIC OOZE
2.5Y 4/2 dark grayish brown grades to 3/2 very dark grayish brown and back to 4/2
extensive light gray, pale brown and light yellowish brown mottling
firmer, slightly silty lutite with scattered forams
S horizontal

27-62
CALC SILIC OOZE
10YR 6/4 light yellowish brown grades to 6/3 pale brown
slight faint light gray mottling
moist, slightly silty lutite with abundant forams
very G

62-136
CALC SILIC OOZE
10YR 6/4 light yellowish brown grades to 6/3 pale brown then to 7/3 very pale brown
slight faint light gray and very pale brown mottling
moist lutite with abund. forams grades to scattered
S

136-142
Washed and disturbed pocket of silty lutite with very abund. forams

142-160
CALC SILIC OOZE
10YR 6/4 light yellowish brown
common to extensive light and dark gray mottling and burrowing
more compact, slightly silty lutite with scattered forams
foram rich, 1.5 cm wide very pale brown burrow spans entire liner at 153-155 cm
S mottled

160-182
CALC SILIC OOZE
10YR 5/2 grayish brown grades to 4/1 dark gray
scattered very dark gray mottles, three excellent very pale brown burrows span entire liner, 160-170 cm
compact slightly silty lutite with scattered forams
S mottled

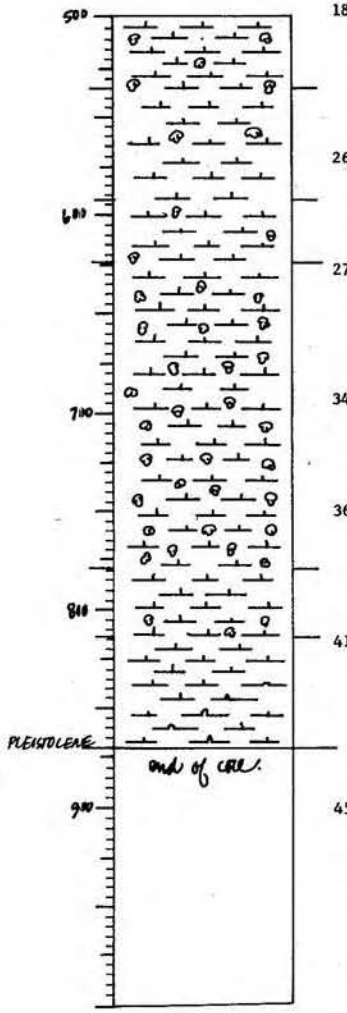


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 7 Core No. 7PC

Lithologic Log




### Detailed Description

182-260
CALC OOZE
varying hues of 10YR 6/2 light brownish gray, 6/3 pale brown and 6/4 light yellowish brown
common light and dark gray mottling throughout
scattered to abund. forams throughout firm slightly silty lutite
S mottled

260-279
CALC CLAY
10YR 5/6 yellowish brown
extensive pale brown and very pale brown mottling
compact silty lutite with scattered forams
S

279-345
CALC CLAY
10YR 6/3 pale brown
extensive faint gray and light gray marbling and mottling throughout
scattered forams in firm slightly silty lutite
G mottled

345-364
CALC CLAY
10YR 5/4 yellowish brown
extensive large gray and dark gray mottling throughout
silty lutite with very few forams except scattered in mottles
S mottled

364-410
CALC OOZE
10YR 6/2 light brownish gray
extensive dark gray, light yellowish brown and gray mottling and burrowing
firm slightly silty lutite with scattered forams
S irregular

410-457
CALC OOZE
10YR 6/4 light brownish gray grades to 6/3 pale brown
faint gray shadowy marbling 410-430 cm, tiny gray spherical mottles extensive 430-457 cm
firm, compact, slightly silty lutite with scattered forams
large, dark gray, 1 cm wide burrow spans entire liner at 414 cm.
G

457-493
CALC OOZE
2.5Y 5/2 grayish brown
extensive light gray, gray and pale brown mottling and marbling throughout
compact lutite with very few forams except scattered in mottles
S irregular

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 7 Core No. 7PC

Lithologic Log

### Detailed Description

493-535
CALC OOZE
10YR 6/3 pale brown grades to 6/4 light yellowish brown
common, faint, gray and light gray mottling
compact slightly silty lutite with scattered forams
watery gray foram rich pocket at 510 cm
S laminated

535-592
CALC OOZE
10YR 7/2 light gray grades to 6/3 pale brown, then to 5/3 brown
a few very pale brown burrows in the zone 559-572 cm
very firm smooth lutite with abund. forams grades to very few
G

592-624
CALC OOZE
10YR 4/1 dk. gray grades to 6/3 pale brown
a few light gray and pale brown mottles scattered throughout, extensive light yellowish brown marbling in the zone 603-612 cm
somewhat less consolidated, slightly silty lutite with scattered forams
S

624-778
CALC OOZE
varying hues of 10YR 6/2 light brownish gray and 6/3 pale brown
extensive, faint light gray and gray marbling and mottling darker in the zones 695-724 cm
compact slightly silty lutite with scattered forams more abund. towards unit basal contact
S inclined 7°

778-814
CALC OOZE
10YR 5/4 yellowish brown
homogeneous overall except for 3 light brownish gray horizontal burrows 803-814 cm
smooth compact lutite with very few forams
S burrowed

814-870
CALC OOZE GRADES TO CALC SILIC OOZE
10YR 6/2 light brownish gray grades to 6/4 light yellowish brown and then to 6/3 pale brown
very firm, compact, slightly silty lutite with abund. forams
end of core



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

Ship: Chain Core No. 7 PC

Expedition 115 Station No. 7

Leg No. 1 Total Core Length 870 cm

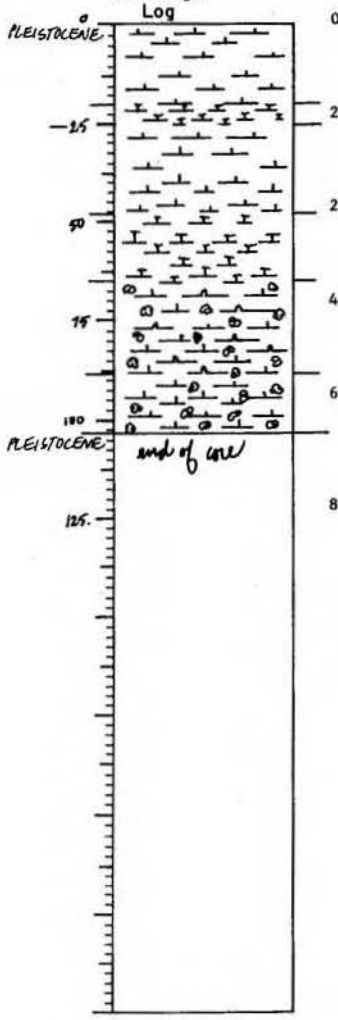
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc ooze | 2 | | | | 23 | 45 | 20 | | | 10 | | | | |
| 20 cm | calc silic ooze | 2 | 8 | | | 46 | 7 | 25 | | | 5 | 6 | tr | 1 | |
| 110 cm | calc silic ooze | 2 | tr | | | 37 | 7 | 35 | | | 3 | 12 | 1 | 2 | 1 |
| 210 cm | calc ooze | 1 | 3 | | | 46 | 10 | 35 | | | 5 | tr | | tr | |
| 270 cm | calc clay | 10 | 3 | | | 72 | tr | 10 | | | 5 | tr | | | |
| 370 cm | calc ooze | 4 | 1 | | | 20 | 10 | 55 | | | 10 | tr | | tr | |
| 470 cm | calc ooze | 2 | 1 | | | 29 | 5 | 60 | | tr | 3 | tr | tr | tr | |
| 550 cm | calc ooze | 1 | | | | 11 | 20 | 65 | | | 3 | tr | | | |
| 650 cm | calc ooze | 2 | 1 | | | 22 | 15 | 55 | | | 5 | tr | | tr | |
| 750 cm | calc ooze | 1 | | | | 52 | 20 | 20 | | | 7 | | | tr | |
| 800 cm | calc ooze | 3 | 1 | | | 51 | 4 | 35 | | | 5 | 1 | | | |
| 869 cm | calc silic ooze | 2 | 1 | | | 20 | 15 | 50 | | | 4 | 6 | 1 | 1 | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 7 Core No. 7PG
Total Length 103 cm. Lat. 09° 08.0'N Long. 20°03.1'W Depth 3806 m.corr.
Core condition EXCELLENT Date Described 17 April 75 by J. Brada.
Physiographic location SIERRA LEONE RISE.

Lithologic Log




### Detailed Description

0-20
CALC OOZE
10YR 5/2 grayish brown grades to 6/3 pale brown
moist silty lutite with very abund. forams
G textural

20-25
CALC OOZE
10YR 7/3 very pale brown
foram sand
S inclined 15°

25-48
CALC OOZE
10YR 5/2 grayish brown grades to 6/3 pale brown
moist silty lutite with very abund. forams
G textural

48-65
CALC OOZE
10YR 7/3 very pale brown
foram sand
S inclined 15°

65-88
CALC SILIC OOZE
10YR 6/4 lt. yellowish brown
extensive faint light gray mottling and marbling
moist unconsolidated lutite with scattered forams
G mottled

88-103
CALC OOZE
2.5Y 4/2 dark grayish brown grades to 3/2 very dark grayish brown and back to 4/2
extensive pale brown light gray, and light yellowish brown mottling and marbling
firmer slightly silty lutite with scattered forams
end of core
Note; Due to a repetitive occurrence of similar lithologies this core is suspected to be an example of a multiple penetration (pilot core rebound) recovery, 1st 0-25 cm, 2nd 25-103 cm



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

Ship: Chain Core No. 7 PG
Expedition 115 Station No. 7
Leg No. 1 Total Core Length 103 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc ooze | 2 | tr | | | 53 | 15 | 25 | | tr | 4 | 1 | | tr | |
| 30 cm | calc ooze | 2 | tr | | | 30 | 35 | 28 | | | 5 | tr | | tr | |
| 55 cm | calc ooze | tr | | | | 27 | 45 | 18 | | | 10 | | | | |
| 80 cm | calc silic ooze | 1 | 1 | | | 65 | 10 | 20 | | | 4 | 6 | 2 | 1 | tr |
| 102 cm | calc ooze | 3 | 1 | | | 62 | 4 | 20 | | | 8 | 3 | tr | 1 | |

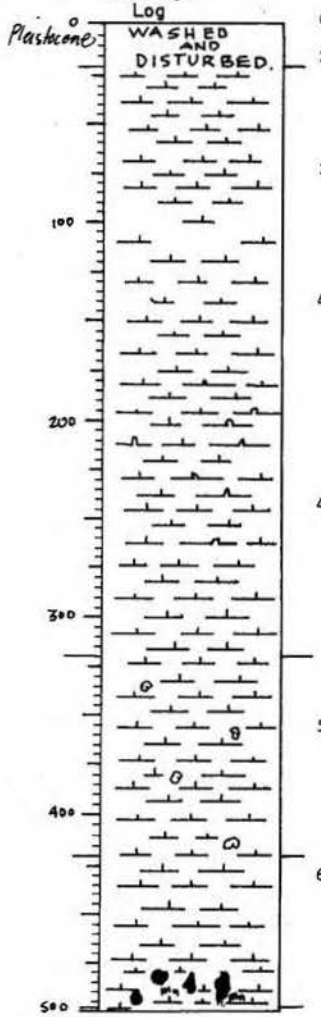
## 224

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 8 Core No. 8PC
Total Length 881 cm. Lat. 09°16.1'N Long. 19° 34.9'W Depth 4572 m. corr.
Core condition EXCELLENT Date Described 21 APRIL 75 by J. Brooks.
Physiographic location SIERRA LEONE RISE.

Lithologic Log




Detailed Description

0-20
DISTURBED AND WASHED

20-320
CALC OOZE GRADES TO CALC SILIC OOZE AND BACK TO CALC OOZE
2.5Y 5/2 grayish brown
homogeneous throughout
very moist unconsolidated lutite
very G, textural

320-420
CALC OOZE
2.5Y 5/2 grayish brown grades to 6/2 light grayish brown
faint light gray and grayish brown marbling
slightly silty moist lutite grades to very silty(calc and foram fragments) lutite
G textural

420-498
CALC OOZE
2.5Y 5/2 grayish brown and 6/2 light grayish brown
irregularly spaced, somewhat inclined laminations of the two colors above
fragmented forams grade to foram sand
somewhat disturbed 473-498 cm, four large, 4-6 cm diameter Mn nodules 473-493, Angular nodule at 493 cm has a nucleus of olive lithified calc material identical to lumps and fragments found deeper in core.
S

498-591
CALC SILIC OOZE GRADES TO HIGHLY CALC CLAY
10YR 5/4 yellowish brown
extensive light gray and light yellowish brown marbling and mottling throughout
moist slightly silty lutite with scattered forams throughout
scattered small spherical pale yellow and olive lithified lumps 580-590 cm
two grayish brown zones of extremely abund. forams 526-530 cm. 575-589 cm, large, irregular, pale yellow brittle lithified calc lump 509-512 cm
very S

591-611
CALC OOZE
10YR 8/3 very pale brown
foram sand with scattered irregular 1mm-1.5 cm diameter pale yellow lithified lumps
small Mn nodule with light olive calc coating at 605 cm, also a few micro nodules scattered throughout sand
S

611-621
HIGHLY CALC CLAY GRADES TO CALC OOZE
10YR 6/3 pale brown
moist silty lutite with extremely abund. forams and scattered, weathered, light olive and pale yellow lithified calc lumps.
S irregular

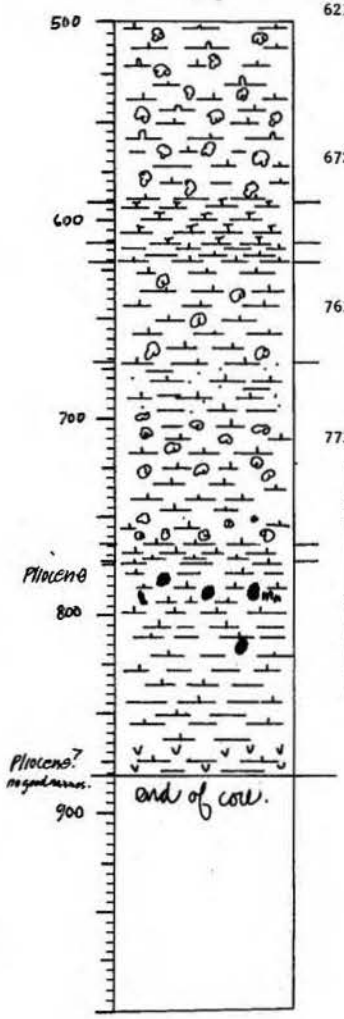
## 225

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 8 Core No. 8PC

Lithologic Log




Detailed Description

621-672
CALC OOZE
10YR 6/6 brownish yellow grades to 2.5Y 7/4 pale yellow
common small round intermottling of the two colors above throughout, also a zone of gray (micronodule) shadowing 640-643 cm
firmer but slick compact lutite
S irregular

672-763
HIGHLY CALC CLAY WITH DETRITUS GRADES TO CALC OOZE
10YR 6/4 light yellowish brown grades to 6/6 brownish yellow and then to 7/4 very pale brown
extensive intermottling of the colors above in the zones 695-730 cm, 745-761 cm
firm compact but slick lutite
S mottled

763-773
CALC OOZE
10YR 8/2 white grades to 8/4 very pale brown
very slight, faint, very pale brown marbling
firm drier, very silty lutite with abund. micro black flecks
a few irregular fragment of thin Mn pavement scattered 770-773
very S

773-881
A striking assembly of various semi and totally lithified light olive, pale yellow, strong brown and white, pavements. Manganese nodules and fragments of both, in a somewhat disturbed state. One stiffened layer follows another sometimes inclined or nearly inverted and almost always found to have a thin "painting" of $MnO_2$ on its upward surface. A bit of light yellowish brown lutite serves as a matrix in the zone 783-791 cm and a very stiff light olive gray and white compact calc clay surrounds the chert-like pavements at 834-838 cm and continues to the end of the core including the well preserved cutter. See attached and separate smear slide sheet for details.
end of core

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

Ship: Chain  Core No. 8 PC

Expedition 115  Station No. 8

Leg No. 1  Total Core Length 881 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | calc ooze | 3 | 1 | | tr | 40 | 5 | 40 | | 3 | 5 | 2 | tr | 1 | |
| 100 cm | calc ooze | 3 | 2 | | tr | 45 | 6 | 35 | | 2 | 4 | 2 | | 1 | |
| 200 cm | calc silic ooze | 2 | 2 | | tr | 37 | 7 | 40 | | 2 | 5 | 4 | tr | 1 | tr |
| 300 cm | calc ooze | 2 | 1 | | | 33 | 8 | 45 | | 2 | 6 | 2 | | 1 | tr |
| 350 cm | calc ooze | 3 | 1 | | | 15 | 50 | 25 | | 2 | | 3 | tr | 1 | tr |
| 400 cm | calc ooze | 2 | tr | | tr | 10 | 60 | 20 | | 1 | 6 | 1 | tr | tr | tr |
| 450 cm | calc ooze | 2 | tr | | | 10 | 65 | 17 | | 1 | 5 | tr | | tr | |
| 502 cm | calc silic ooze | 2 | 2 | | | 24 | 8 | 40 | | 1 | 5 | 12 | 1 | 4 | 1 |
| 585 cm | hly calc clay | 7 | 1 | tr | tr | 67 | 2 | 12 | | 1 | 10 | | | | |
| 606 cm | hly calc clay | 3 | | | | 82 | tr | 5 | | tr | 10 | | | | |
| 625 cm | calc ooze | 2 | | | | 40 | 10 | 40 | | 2 | 6 | | | | |
| 675 cm | hly calc clay with det | 15 | 3 | | | 66 | tr | 7 | | 8 | 1 | | | | |
| 725 cm | calc ooze | 1 | tr | | | 59 | 1 | 10 | | 25 | 4 | | | | |
| 750 cm | calc ooze | 1 | tr | | | 43 | 1 | 20 | | 30 | 5 | | | | |
| 765 cm | calc ooze | 1 | tr | | | 53 | 20 | 5 | | 6 | 15 | | | | |
| 772 cm | calc ooze | 1 | 1 | | | 40 | 20 | 20 | | 10 | 8 | | | | |
| 880 cm | calc clay/det | 5 | tr | | 30? | 58 | tr | 2 | | | 5 | | | | |



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

Ship: Chain  Core No. 8 PC (PAVEMENT ZONE)

Expedition 115  Station No. 8

Leg No. 1  Total Core Length 881 cm

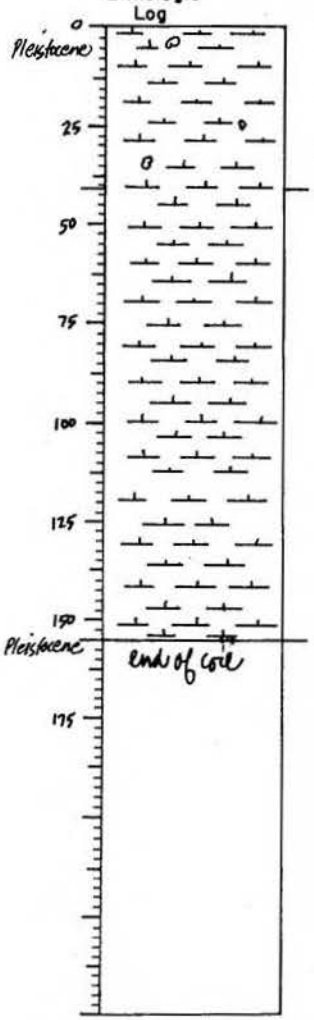
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1. 774 cm | calc clay | 2 | | | 4 | 82 | 3 | 3 | | | 6 | | | |
| 2. 780 cm | calc ooze | 1 | | 1 | 2 | 51 | 35 | 5 | | | 5 | tr | | |
| 3. 785 cm | calc ooze | 8 | 2 | 10 | tr | 48 | 5 | 25 | | | 2 | | | |
| 4. 795 cm | calc ooze | 3 | | tr | 2 | 54 | 30 | 6 | | | 5 | | | |
| 5. 800 cm | calc clay | 2 | | tr | 3 | 81 | 3 | 5 | | | 6 | | | |
| 6. 810 cm | hly calc clay | 2 | 2 | tr | 1 | 76 | 5 | 10 | | | 4 | | | |
| 7. 811 cm | hly calc clay | | | tr | 1 | 79 | 2 | 8 | | | 10 | | | |
| 8. 825 cm | hly calc clay | 1 | | | 4 | 70 | 5 | 15 | | | 5 | | | |
| 9. 835 cm | calc clay | 3 | | | 3 | 80 | 3 | 5 | | | 6 | | | |
| 10.836 cm | hly calc clay | 4 | tr | | 2 | | 10 | 5 | | | 5 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 8 Core No. 8PG
Total Length 155 cm. Lat. 09°16.1'N Long. 19°34.9'W Depth 4572 m corr.
Core condition EXCELLENT Date Described 21APRIL75 by J. Broda.
Physiographic location SIERRA LEONE RISE.

Lithologic Log




### Detailed Description

0-41
CALC OOZE
10YR 6/3 pale brown
a very few scattered grayish brown foram-rich mottles
scattered forams at core top and in mottles, otherwise very moist slick unconsolidated lutite
S

41-155
CALC OOZE
2.5Y 5/2 grayish brown
homogeneous throughout
very moist slick unconsolidated lutite
end of core



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

Ship: Chain Core No. 8 PG
Expedition 115 Station No. 8
Leg No. 1 Total Core Length 155 cm

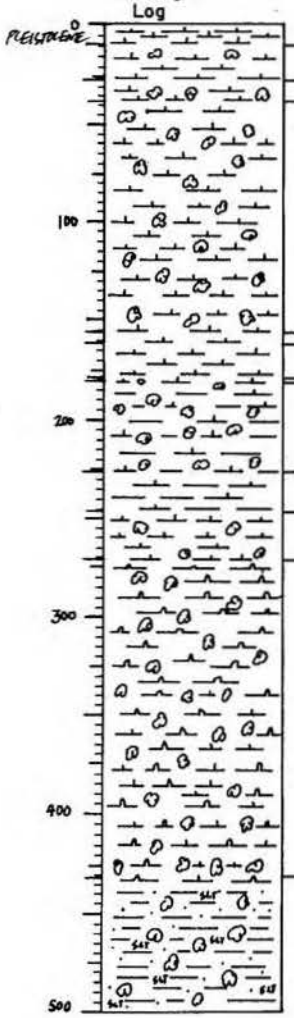
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 2 | | | tr | 51 | 15 | 25 | | 1 | 3 | 2 | | 1 |
| 42 cm | calc ooze | 3 | 1 | | tr | 40 | 6 | 40 | | 2 | 4 | 3 | | 1 |
| 154 cm | calc ooze | 2 | 3 | | tr | 46 | 6 | 34 | | 2 | 4 | 2 | tr | 1 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 10 Core No. 9PC
Total Length 880 cm. Lat. 09° 04.5'N Long. 19° 35.1'W Depth 4685 m-corr.
Core condition EXCELLENT Date Described 24 APRIL 75 by J. Broda.
Physiographic location SIERRA LEONE RISE.

Lithologic Log




### Detailed Description

0-9
CALC OOZE
2.5Y 5/2 grayish brown
moist, unconsolidated, slightly silty lutite
homogeneous throughout
S

9-26
CALC OOZE
10YR 6/3 pale brown
several dark gray burrows span entire liner 10-15 cm
stiff more compact silty lutite with abund. forams
nearly completed, but somewhat disturbed band of foram sand at upper contact
S irregular

26-37
CALC OOZE
10YR 8/3 very pale brown, 10YR 6/4 light yellowish brown and 4/1 dark gray
complete irregular intermottling of the 3 colors above
compact lutite with scattered forams
very unusual 3 cm diameter Mn nodule 31-34 cm has 5 mm coating of lithified lutite
S mottled

37-156
CALC OOZE
10YR 6/3 pale brown
extensive, irregular & inclined, large light yellowish brown, dark gray, grayish brown and very pale brown mottling and burrowing
moist, but compact, slightly silty lutite with foram content varying irregularly throughout from few to abund.
S

156-161
CALC OOZE
10YR 7/4 very pale brown and 6/4 light yellowish brown
complete intermottling of the two colors above
firm lutite with abund. forams
S inclined 20° irregularly

161-178
CALC OOZE
2.5Y 5/2 grayish brown
irregular swirling of dark gray, very pale brown and light yellowish brown
moist slick lutite with irregular distribution of forams none to scattered
S horizontal

178-180
CALC OOZE
10YR 7/4 very pale brown and 6/3 pale brown
common mixing of the two colors above
firm lutite with abund. forams
S irregular

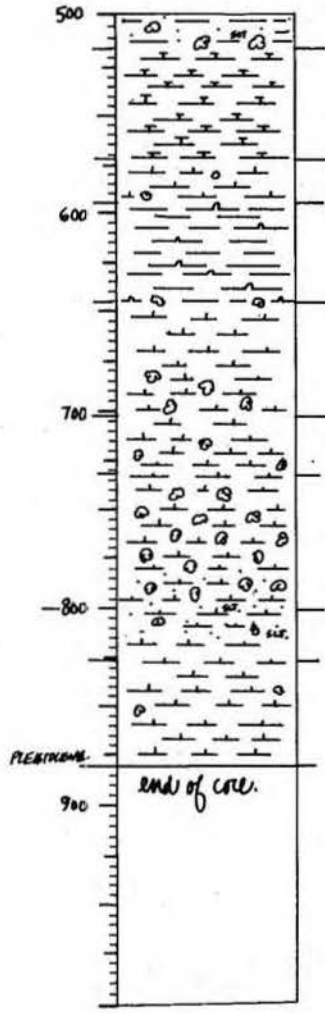


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 10 Core No. 9PC

Lithologic Log




### Detailed Description

180-226
CALC CLAY
10YR 3/1 very dark gray
extensive (sometimes vertically oriented) grayish brown swirling and marbling throughout
slick moist lutite with a few forams at unit basal contact
unusual wedge of yellowish brown foram rich lutite intruded 204-210 cm, dark grayish brown lithified lump and fragments found 210-220 cm
S

226-246
CALC CLAY
10YR 5/3 brown
thick and thin, inclined and concave, light yellowish brown, very pale brown and dark gray laminations
firm slightly silty lutite with scattered forams
S, H

246-271
CALC OOZE
10YR 7/1 light gray
very faint gray, shadowy mottling common throughout
very firm drier lutite with very abund. forams
S inclined 15° and concave

271-432
SILIC OOZE GRADES TO CALC SILIC OOZE
5Y 3/1 very dark gray
extensive dark gray and grayish brown mottling throughout
moist slick lutite with very few forams scattered widely
very dark grayish brown lithified lumps, fragments, and laminations common throughout the zone
S horizontal

432-515
UNPOSS CLAY WITH DETRITUS
2.5Y 5/2 grayish brown
extensive, dark gray, pale brown and light gray mottling and marbling
moist slick lutite with abund. forams in the zones 450-475 cm, 505-515 cm
very S

515-572
CALC OOZE
10YR 7/2 light gray
homogeneous throughout
foram sand
S, irregular

572-595
CALC OOZE
10YR 6/3 pale brown
a few light gray mottles scattered
firm slightly silty lutite with forams abund. in mottles
S mottled

595-645
SLIGHTLY SILIC CLAY
10YR 2.5/1 black

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 1 Sta. 10 Core No. 9PC

Lithologic Log

### Detailed Description

a few hazy dark gray mottles at unit basal contact
moist slick lutite with a few forams in mottles at basal contact
G mottled

645-702
CALC OOZE
10YR 4/1 dark gray
common large light gray and very dark gray mottles, 672-704cm
firm slick lutite with a few forams, more abund. in mottles
S mottled

702-732
CALC OOZE
2.5Y 5/2 grayish brown grades to 6/2 light brownish gray
slight light gray mottling
stiff much more compact silty lutite with very abund. forams
G

732-800
CALC OOZE GRADES TO CALC OOZE WITH DETRITUS
5Y 3/1 very dark gray
extensive irregular gray and pale brown mottling throughout
firm slightly silty lutite with abund. forams
S, H

800-826
CALC OOZE WITH DETRITUS GRADES TO CALC OOZE
2.5Y 5/2 grayish brown grades to 6/2 light brownish gray
common gray mottling 800-810 cm
firm silty lutite with abund. forams grades to foram sand
a number of 2mm-1cm wide laminations of very pale brown foram sand 810-826 cm
S

826-880
CALC OOZE
5Y 5/3 olive
a few scattered lithified 5/4 olive mottles
firm slightly silty lutite with very few forams and scattered lithified lumps
end of core



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

Ship: Chain Core No. 9 PC

Expedition 115 Station No. 10

Leg No. 1 Total Core Length 880 cm

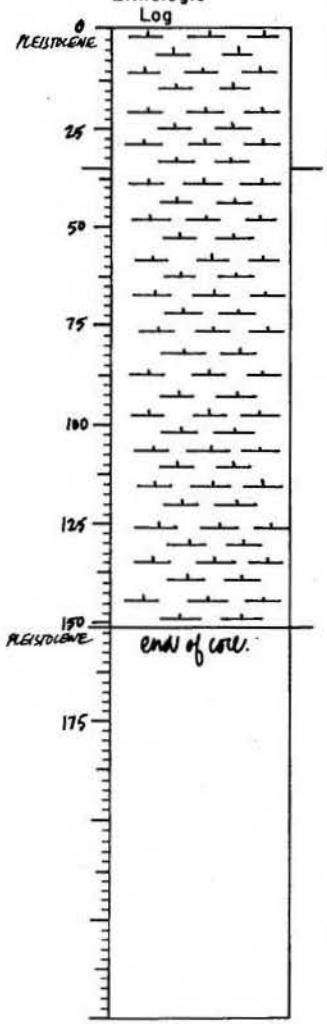
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc ooze | 4 | 4 | | 1 | 31 | 10 | 40 | | 3 | 4 | 2 | tr | 1 | |
| 20 cm | calc ooze | 2 | tr | | tr | 17 | 45 | 30 | | tr | 6 | | | | |
| 100 cm | calc ooze | tr | | | | 30 | 10 | 55 | | | 5 | | | | |
| 200 cm | calc clay | 15 | 5 | | tr | 69 | tr | 10 | | | 1 | | | | |
| 240 cm | calc clay | 8 | 1 | | tr | 76 | tr | 7 | | tr | 8 | | | | |
| 265 cm | calc ooze | 3 | 1 | | tr | 23 | 18 | 40 | | | 15 | | | | |
| 280 cm | silic ooze | 15 | 3 | | tr | 47 | | 2 | | | tr | 25 | 3 | 5 | tr |
| 380 cm | calc silic ooze | 4 | 4 | | | 56 | 4 | 20 | | | 3 | 6 | 1 | 1 | 1 |
| 480 cm | unfoss clay with det | 15 | 3 | | tr | 82 | | | | | tr | tr | | tr | |
| 580 cm | calc ooze | 8 | 1 | | tr | 34 | 7 | 45 | | | 5 | 1 | tr | tr | |
| 610 cm | sl silic clay | 18 | 5 | | 1 | 72 | tr | tr | | | tr | 3 | 1 | tr | tr |
| 700 cm | calc ooze | 5 | 4 | | tr | 26 | 10 | 40 | | tr | 15 | tr | | | |
| 800 cm | calc ooze with det | 15 | 3 | | tr | 50 | 4 | 10 | | | 18 | | | | |
| 840 cm | calc ooze | 4 | 3 | | | 60 | 4 | 25 | | | 4 | | | tr | |
| 879 cm | calc ooze | 3 | 2 | | t | 22 | 6 | 55 | | | 12 | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 1 Sta. 10 Core No. 9PG
Total Length 151 cm. Lat. 09°04.5'N Long. 19°35.1'W Depth 4685 m. corr.
Core condition EXCELLENT. Date Described 24APRIL75 by J. Broda.
Physiographic location SIERRA LEONE RISE

Lithologic Log




### Detailed Description

0-35
CALC OOZE
10YR 6/3 pale brown
homogeneous throughout
moist unconsolidated lutite with a few scattered forams in the zone 0-10 cm
G mottled

35-151
CALC OOZE
2.5Y 5/2 grayish brown
homogeneous throughout
moist, firmer, slightly silty lutite, siltier at base
end of core



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

Ship: Chain Core No. 9 PG
Expedition 115 Station No. 10
Leg No. 1 Total Core Length 151 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | 4 | | 1 | 36 | 8 | 40 | | 3 | 4 | 2 | tr | 1 |
| 50 cm | calc ooze | 1 | 3 | | tr | 43 | 10 | 35 | | 3 | 3 | 1 | tr | 1 |
| 150 cm | calc ooze | 5 | 1 | | tr | 27 | 45 | 25 | | 2 | 5 | | | tr |

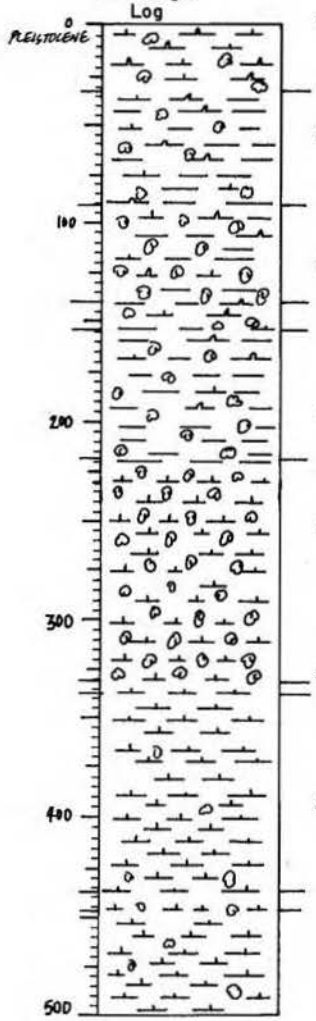
236

## VISUAL CORE DESCRIPTION

Page 1 of 2

Ship CHAIN Cruise 115 Leg 1 Sta. 11 Core No. 10 PC
Total Length 885 cm. Lat. 09°15.7'N Long. 19°26.3'W Depth 4168 m-corr.
Core condition EXCELLENT. Date Described 28 APRIL 75 by J. Brooks.
Physiographic location SIERRA LEONE RISE.

Lithologic Log




### Detailed Description

0-32
CALC SILIC OOZE
10YR 5/4 yellowish brown
common irregular light gray mottling 20-32 cm
moist unconsolidated lutite; very few forams
G mottled

32-90
CALC SILIC CLAY
10YR 6/4 light yellowish brown grades to 6/6 brownish yellow and back to 6/4 light yellowish brown
light gray and dark gray mottling found commonly throughout
moist slightly silty lutite with abund. forams
G textural

90-140
CALC SILIC CLAY
10YR 5/4 yellowish brown; 6/6 brownish yellow; and 5/2 grayish brown
complete irregular intermarbling of the colors above
moist slighlty silty lutite with very few forams grading to common
G

140-154
CALC SILIC CLAY
2.5Y 4/2 dark grayish brown
common pale brown and brownish yellow mottling
moist lutite with very few forams
S, irregular

154-218
CALC SILIC CLAY GRADES TO UNFOSS CLAY
10YR 6/4 light yellowish brown grades to 7.5YR 5/6 strong brown
common, brown, yellowish brown, and gray mottling and marbling
moist slightly silty lutite with forams scattered in the zone 154-184 only
S

218-331
CALC OOZE
varying hues of 10YR 6/3 pale brown, 6/4 light yellowish brown and 4/2 dark gray
complete and extensive intermottling of the colors above
scattered to few forams throughout, moist slightly silty lutite
S

331-337
CALC OOZE
10YR 7/4 very pale brown
homogeneous throughout
firmer slightly silty lutite with scattered forams
S mottled

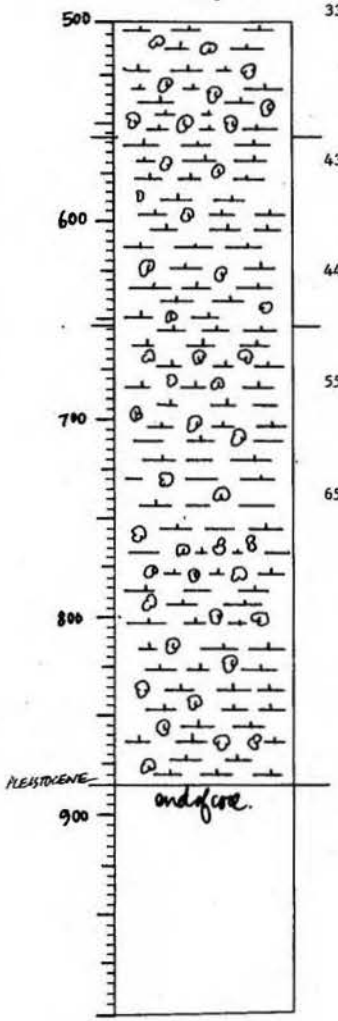
237

## VISUAL CORE DESCRIPTION

Page 2 of 2

Ship CHAIN Cruise 115 Leg 1 Sta. 11 Core No. 10PC

Lithologic Log




### Detailed Description

337-437
CALC OOZE
10YR 5/3 brown grades to 5/6 yellowish brown and then to 6/3 pale brown
faint light gray mottling throughout plus a bit of intermottling of the colors above
moist slick lutite with a few forams
G mottled

437-447
CALC OOZE
2.5Y 3/2 very dark grayish brown
slight dark gray marbling and mottling
very slick lutite
G mottled

447-557
CALC OOZE
10YR 6/3 pale brown grades to 6/4 light yellowish brown
common to extensive grayish brown and gray mottling throughout
firm slick lutite with forams ranging from few to abund.
S irregular

557-653
CALC OOZE
10YR 6/3 pale brown repeatedly grades to 5/4 yellowish brown
common light gray and gray mottling in the yellowish brown zones
G

653-885
CALC OOZE GRADES TO HIGHLY CALC CLAY AND BACK TO CALC OOZE
10YR 6/4 light yellowish brown repeatedly grades to 5/4 yellowish brown
varying degrees, common to extensive, of light gray and grayish brown mottling throughout
firm slightly silty lutite with scattered to abund. forams, more abund. in mottled zones.
end of core

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

Ship: Chain  Core No. 10 PC

Expedition 115  Station No. 11

Leg No. 1  Total Core Length 885 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc silic ooze | 5 | 2 | | tr | 38 | 5 | 35 | | | 6 | 7 | 1 | 1 | tr |
| 100 cm | calc silic clay | 5 | 2 | | tr | 84 | 1 | 2 | | | 3 | 2 | | 1 | |
| 191 cm | unfoss clay | 12 | 2 | | | 86 | | tr | | | tr | | | | |
| 300 cm | calc ooze | 4 | tr | | tr | 18 | 5 | 60 | | tr | 12 | 1 | | tr | |
| 400 cm | calc ooze | 2 | tr | | | 25 | 3 | 65 | | | 5 | tr | | tr | |
| 500 cm | calc ooze | 8 | 3 | | | 47 | 4 | 35 | | | 3 | | | | |
| 600 cm | calc ooze | | 1 | | | 16 | 8 | 70 | | | 3 | 2 | tr | tr | |
| 700 cm | hly calc clay | 12 | 2 | | | 66 | tr | 15 | | | 5 | tr | | tr | |
| 800 cm | calc ooze | 1 | tr | | | 34 | 12 | 45 | | | 8 | | | | |
| 884 cm | calc ooze | 1 | tr | | | 47 | 7 | 40 | | tr | 5 | tr | | tr | |



VISUAL CORE DESCRIPTION

Page 1 of 1

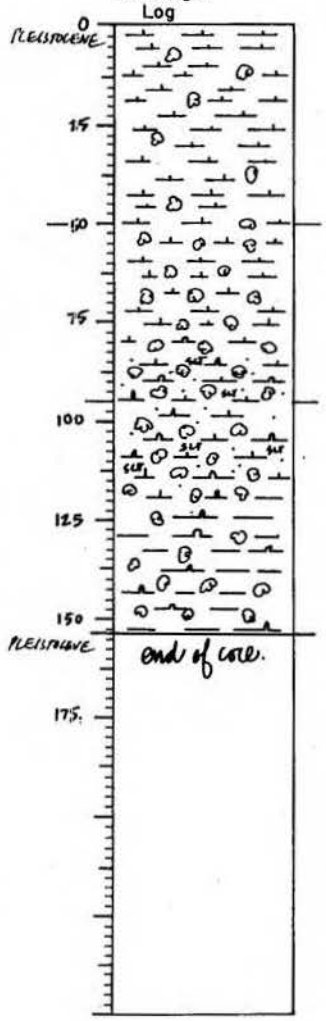
Ship CHAIN Cruise 115 Leg 1 Sta. 11 Core No. 10PG

Total Length 153 cm. Lat. 09°15.7'N Long. 19° 26.37'W Depth 4160 m-corr.

Core condition EXCELLENT Date Described 25 APR 75 by J. Broda.

Physiographic location SIERRA LEONE RISE.

Lithologic Log




Detailed Description

0-50
CALC OOZE
10YR 5/3 brown
common light yellowish brown and grayish brown marbling and mottling
abund. forams grade to few in firm slightly silty lutite
S

50-95
CALC OOZE GRADES TO CALC SILIC OOZE WITH DETRITUS
10YR 6/4 light yellowish brown
extensive brownish yellow and gray mottling throughout
compact lutite with very abund. forams
S mottled

95-153
CALC SILIC OOZE WITH DETRITUS GRADES TO SLIGHTLY SILIC CLAY
10YR 5/3 brown grades to 5/2 grayish brown
extensive light yellowish brown and dark gray mottling
firm lutite with a few forams
very pale brown zone of very abund. forams 111-117 cm
end of core

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

Ship: Chain  Core No. 10 PG

Expedition 115  Station No. 11

Leg No. 1  Total Core Length 153 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | calc ooze | 3 | 2 | | tr | 38 | 16 | 32 | | tr | 6 | 2 | tr | 1 | |
| 100 cm | calc silic ooze with det | 20 | 3 | | tr | 38 | 4 | 20 | | tr | 5 | 5 | 3 | 1 | 1 |
| 152 cm | sl silic clay | 12 | 3 | | 1 | 82 | | | | | tr. | 1 | tr | 1 | tr |

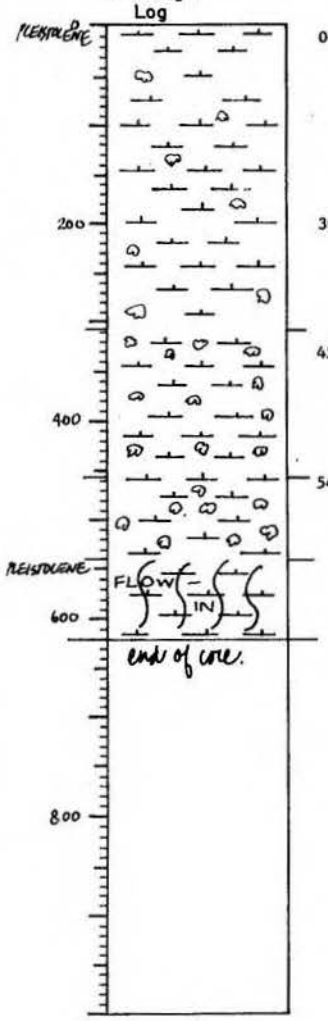


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 2 Sta. 20 Core No. 12PG
Total Length 620 cm. Lat. 22° 16.0'S Long. 12°32.28'E Depth 1017 m-corr.
Core condition EXCELLENT Date Described 11MAR75 by [illegible]
Physiographic location SOUTHWEST AFRICAN SLOPE: WALVIS BAIL

Lithologic Log




Detailed Description

0-308
CALC OOZE
5Y 3/2 dk olive gray
faint laminations, bands, and mottles of olive gray 5Y 4/2 and olive 4/4 found commonly throughout
moist slick, rubbery lutite with abund. tiny white flecks (shell frags?) found throughout
79-81 cm band of extremely abund. white flecks, distinct but irregular olive band 69-74 cm.
S, I 10°

308-456
CALC OOZE
5Y 4/2 olive gray
extensive olive and dark olive gray mottling 310-340 cm, common dk olive gray burrows and bands, 340-356 cm
moist slick, rubbery lutite with white flecks common throughout
G

456-540
CALC OOZE
5Y 3/2 dk olive gray
extensive olive gray and olive mottling 456-474 cm, common 474-540 cm
moist rubbery lutite with common white flecks
G

540-620
FLOW IN
end of core

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

Ship: Chain

Core No. 12 PC

Expedition 115

Station No. 20

Leg No. 2

Total Core Length 620 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | | | tr | 51 | 3 | 40 | 2 | | 3 | | | tr |
| 80 cm | calc ooze | 1 | | | 1 | 50 | 4 | 30 | 1 | | 12* | | | 1 |
| 150 cm | calc ooze | 2 | 1 | | tr | 50 | 3 | 38 | tr | tr | 6 | | | tr |
| 250 cm | calc ooze | 2 | 1 | | tr | 45 | 10 | 33 | | | 9* | | | tr |
| 350 cm | calc ooze | 2 | 2 | | 1 | 40 | 8 | 40 | | | 7 | tr | | tr |
| 460 cm | calc ooze | 2 | 2 | | 1 | 40 | 10 | 40 | | | 5 | tr | | tr |
| 560 cm | calc ooze | 3 | 2 | | 1 | 50 | 5 | 30 | | | 9 | | | tr |
| 619 cm | calc ooze | 2 | 2 | | 1 | 45 | 10 | 35 | | | 5 | tr | | tr |

* some fish bone debris



VISUAL CORE DESCRIPTION

Page 1 of 1

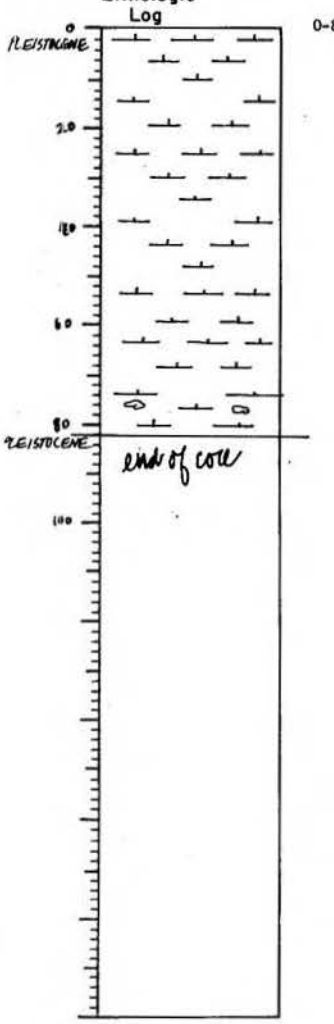
Ship CHAIN Cruise 115 Leg 2 Sta. 20 Core No. 12PG

Total Length 82 cm. Lat. 22° 16.0'S Long. 12° 32.28'E Depth 1017 m.corr

Core condition EXCELLENT Date Described 11MAR75 by [illegible]

Physiographic location SOUTHWEST AFRICAN SLOPE : WALVIS BAIE

Lithologic Log




Detailed Description

0-82
CALC OOZE
5Y 4/4 olive
very sl olive gray marbling found 75-82 cm
very moist,slick,rubbery lutite with trace of white flecks 75-82 cm.
Note: when split aboard ship, odor of hydrogen sulfide was noted in core
end of core

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

Ship: Chain  Core No. 12 PG

Expedition 115  Station No. 20

Leg No. 2  Total Core Length 82 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | | | 1 | 50 | 8 | 30 | 1 | | 8 | | | 1 |
| 81 cm | calc ooze | 2 | 2 | | | 40 | 5 | 45 | | | 5 | | | 1 |



VISUAL CORE DESCRIPTION

Page 1 of 1

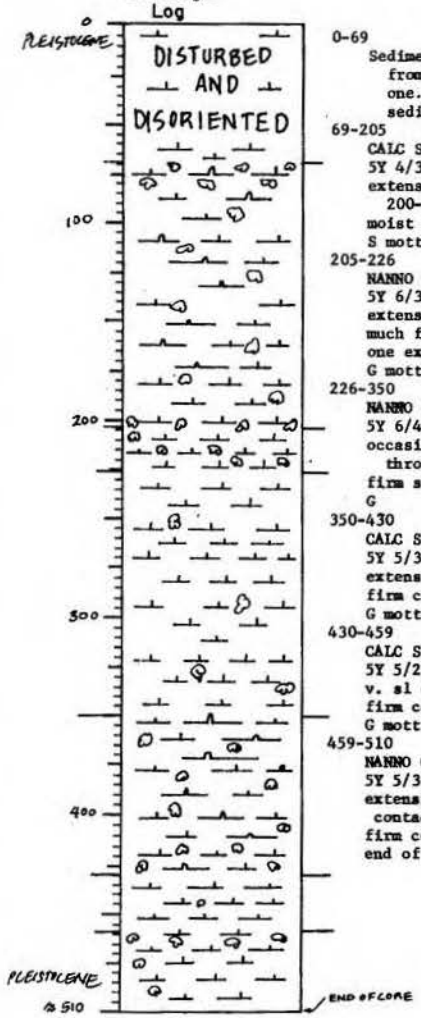
Ship CHAIN Cruise 115 Leg 2 Sta. 21 Core No. 13PC

Total Length 510 cm. Lat. 23°31.35'S Long. 12°14.9'E Depth 2132 m. corr.

Core condition EXCELLENT. Date Described 12 MAR 75 by J. Brooks

Physiographic location IN AREA OF SLUMPS OFF SOUTHWEST AFRICA

Lithologic Log




Detailed Description

0-69
Sediment disturbed and dis_oriented. Sample was extruded from a crushed and broken section of liner into present one. Overall color 5Y 5/4 olive marbled with 4/3 olive; sediment type calc ooze.

69-205
CALC SILIC OOZE GRADES TO CALC OOZE
5Y 4/3 olive
extensive pale olive 6/4 and olive 5/4 mottling 69-85 cm and 200-205 cm; common olive burrowing and banding 85-200 cm
moist slick rubbery lutite with scattered white flecks
S mottled bottom contact

205-226
NANNO OOZE
5Y 6/3 pale olive
extensive pale yellow and olive mottling throughout
much firmer, sl silty lutite with scattered forams
one excellent elongated burrow spans entire liner at 219 cm
G mottled bottom contact

226-350
NANNO OOZE
5Y 6/4 pale olive grades to 5/3 olive
occasional well formed pale yellow and pale olive burrows throughout
firm sl silty lutite with scattered forams
G

350-430
CALC SILIC OOZE
5Y 5/3 olive
extensive faint olive and pale olive burrowing and mottling
firm compact lutite with occasional white flecks
G mottled bottom contact

430-459
CALC SILIC OOZE
5Y 5/2 olive gray
v. sl olive mottling
firm compact lutite
G mottled

459-510
NANNO OOZE
5Y 5/3 olive
extensive faint olive and pale olive mottling at upper unit contact
firm compact lutite with occasional white flecks
end of core

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

Ship: Chain  Core No. 13 PC

Expedition 115  Station No. 21

Leg No. 2  Total Core Length 510 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | silicoflag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | calc silic ooze | 2 | 1 | | 1 | 28 | 8 | 45 | | | 5 | 10 | | tr | tr |
| 75 cm | calc silic ooze | 1 | 1 | | tr | 30 | 5 | 50 | | | 5 | 8 | | | |
| 175 cm | calc ooze | 2 | 1 | | tr | 40 | 4 | 40 | | | 10 | 3 | | tr | |
| 207 cm | nanno ooze | tr | tr | | tr | 2 | 2 | 89 | | | 1 | 2 | tr | 4 | |
| 300 cm | nanno ooze | 1 | 1 | | tr | 15 | 2 | 77 | | | 1 | 1 | | 2 | |
| 400 cm | calc silic ooze | 1 | tr | | tr | 15 | 2 | 72 | | | 3 | 3 | tr | 4 | tr |
| 440 cm | calc silic ooze | | 1 | | 1 | 12 | 5 | 69 | | | 5 | 3 | | 4 | |
| 509 cm | nanno ooze | 1 | 1 | | | 17 | 2 | 75 | | | 1 | 1 | | 2 | |



VISUAL CORE DESCRIPTION

Page 1 of 1

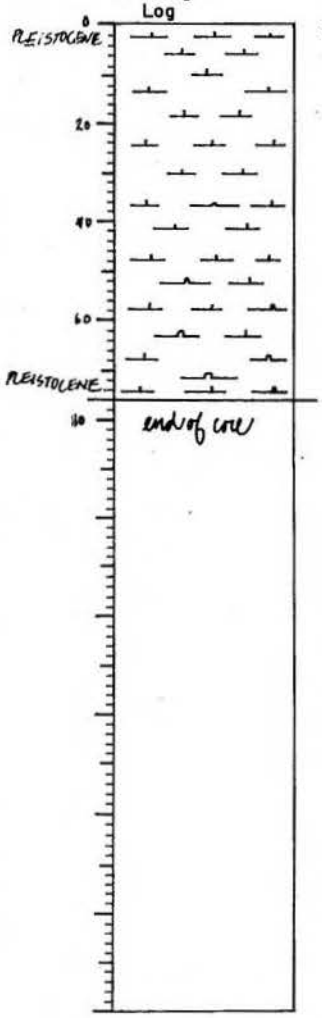
Ship CHAIN Cruise 115 Leg 2 Sta. 21 Core No. 13PG

Total Length 76 cm. Lat. 23° 31.35'S Long. 12°14.9'E Depth 2132 m.corr.

Core condition EXCELLENT Date Described 12MAR.75 by [illegible]

Physiographic location IN AREA OF SLUMPS OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-76
CALC OOZE GRADES TO CALC SILIC OOZE
5Y 6/4 pale olive
homogeneous throughout
moist sl silty lutite with scattered forams
end of core

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

Ship: Chain  Core No. 13 PG

Expedition 115  Station No. 21

Leg No. 2  Total Core Length 76 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICOUSAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | calc ooze | 1 | tr | | 1 | 20 | 7 | 65 | | | 2 | 3 | | 1 | |
| 75 cm | calc silic ooze | 1 | 1 | | tr | 25 | 5 | 50 | | | 3 | 10 | tr | 5 | tr |



VISUAL CORE DESCRIPTION

Page 1 of 1

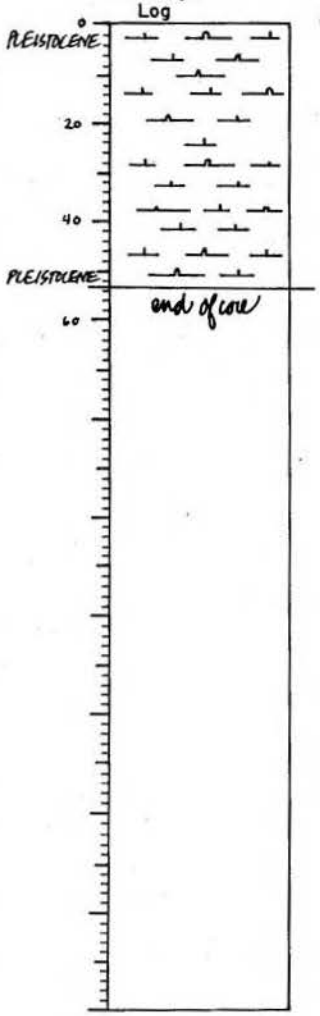
Ship CHAIN Cruise 115 Leg 2 Sta. 22 Core No. 14CC

Total Length 53 cm. Lat. 22° 30.0'S Long. 12° 08.4'E Depth 2429 m.corr.

Core condition EXCELLENT Date Described 13MAR.75 by J Rhode

Physiographic location CAPE BASIN OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-53

CALC SILIC OOZE
7.5Y 6/2 lt olive gray
a bit of pale olive marbling and banding found scattered throughout
v. moist slick sl silty lutite with scattered forams
end of core
NOTE: core is cumulative, represents three successive hits of pogo camera frame.

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

Ship: Chain  Core No. 14 cc

Expedition 115  Station No. 22

Leg No. 2  Total Core Length 53 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc silic ooze | 2 | | | 1 | 54 | 8 | 25 | | | 5 | 3 | | 2 |
| 52 cm | calc silic ooze | 1 | tr | | 1 | 47 | 10 | 28 | | | 5 | 5 | | 3 |



VISUAL CORE DESCRIPTION

Page 1 of 1

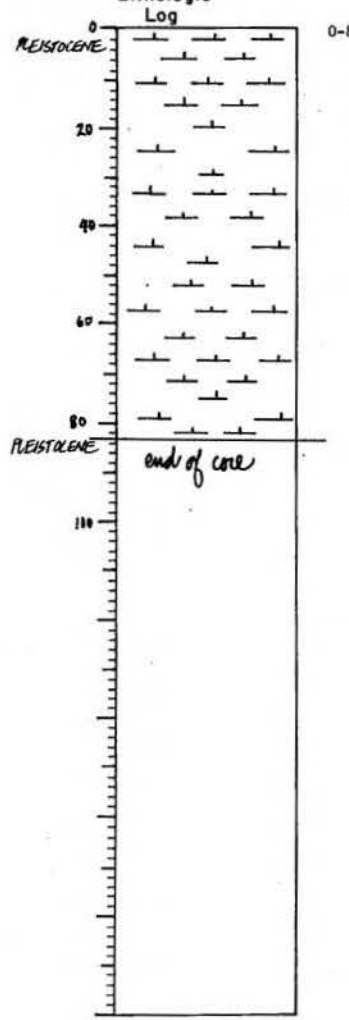
Ship CHAIN Cruise 115 Leg 2 Sta. 23 Core No. 15CC

Total Length 83 cm. Lat. 24° 04.17'S Long. 12° 39.59'E Depth 2199 m.corr.

Core condition EXCELLENT Date Described 13 MARTS by [illegible]

Physiographic location IN AREA OF SLUMPS OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-83
CALC OOZE
5YR 6/4 pale olive
homogeneous throughout
very moist sl silty lutite with scattered forams
NOTE: core is cumulative, represents 10 successive hits of pogo camera frame.
end of core

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

Ship: Chain  Core No. 15 CC

Expedition 115  Station No. 23

Leg No. 2  Total Core Length 83 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 2 | | | tr | 50 | 4 | 40 | | | 3 | 1 | | tr |
| 82 cm | calc ooze | 1 | tr | | tr | 40 | 8 | 45 | | | 5 | 1 | | tr |



VISUAL CORE DESCRIPTION

Page 1 of 1

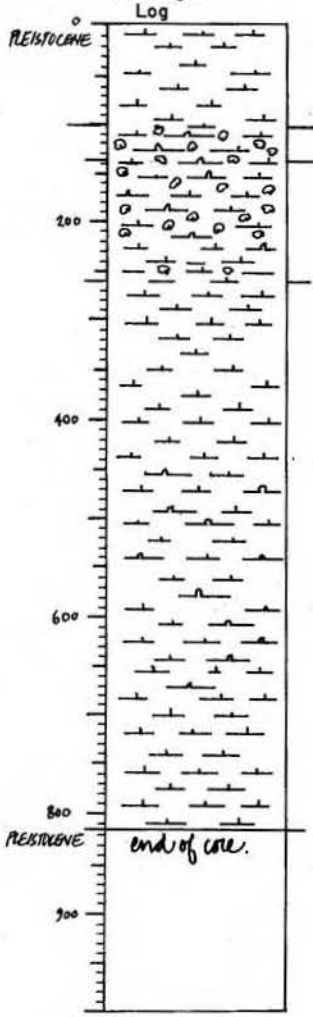
Ship CHAIN Cruise 115 Leg 2 Sta. 23 Core No. 16PC

Total Length 813 cm. Lat. 24°04.17'S Long. 12°39.93'E Depth 2199 m.corr.

Core condition EXCELLENT Date Described 20MAR75 by J.Broda.

Physiographic location IN AREA OF CLUMPS, SOUTHWEST AFRICA

Lithologic Log




Detailed Description

0-100
CALC OOZE
5Y 6/4 pale olive
very homogeneous throughout
a few scattered forams in moist smooth lutite
0-5 cm slumped due to washing
G sl mottled

100-135
CALC SILIC OOZE
5Y 5/4 olive
extensive pale olive and 5/3 and 4/4 olive mottling and marbling
more abund. forams in moist sl silty lutite
S concave upward and mottled

135-260
CALC SILIC OOZE GRADES TO HLY CALC CLAY
5Y 4/4 olive grades to 3/2 dk olive gray
extensive olive and pale olive marbling and mottling 135-206 cm, then a few well formed distinct burrows found 240-260 cm
moist sl silty lutite with abund. forams
two clean breaks in core 190-192 cm and 211-216 cm, they appear to be results of pullout

260-813
CALC OOZE GRADES TO CALC SILIC OOZE AND BACK TO CALC OOZE
5Y 3/2 dk olive gray grades several times to 4/4 olive except for gradual changes in hue, unit is homogeneous throughout
moist sl silty lutite with scattered forams and white flecks
sl lighter olive zones 540-585, 690-735, 785-815 cm
end of core

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

Ship: Chain  Core No. 16 PC

Expedition 115  Station No. 23

Leg No. 2  Total Core Length 813 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | silicoflags |
| 1 cm | calc ooze | tr | | | 1 | 46 | 8 | 35 | | | 8 | 1 | | 1 | |
| 100 cm | calc silic ooze | tr | | | tr | 25 | 10 | 55 | | | 3 | 4 | | 2 | 1 |
| 150 cm | calc silic ooze | tr | | | tr | 35 | 3 | 40 | | | 5 | 15 | | 2 | tr |
| 250 cm | hly calc clay | 1 | | | 1 | 72* | 2 | 20 | | | 3 | tr | | 1 | |
| 350 cm | calc ooze | 1 | | | tr | 60* | 3# | 30 | | tr | 5 | tr | tr | 1 | tr |
| 450 cm | calc silic ooze | tr | | | tr | 57* | 5 | 30 | | tr | 3 | 2 | | 3 | tr |
| 550 cm | calc silic ooze | tr | | | | 58* | 3# | 25 | | | 5 | 3 | | *6* | tr |
| 650 cm | calc silic ooze | | tr | | | 59* | 4 | 25 | | | 3 | 4 | | 5 | tr |
| 750 cm | calc ooze | | | | | 35* | 4 | 55 | | tr | 2 | 1 | | 3 | tr |
| 812 cm | calc ooze | tr | | | | 30* | 3 | 60 | | | 3 | 2 | | 2 | tr |

* high percentage of fecal pellets
** strange, quite regularly shaped rectangular siliceous plates
\# some benthic forams

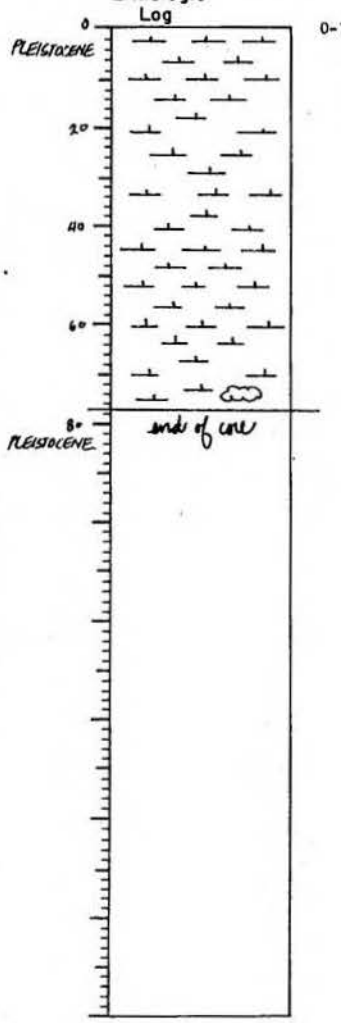


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 2 Sta. 23 Core No. 16PG
Total Length 77 cm. Lat. 24° 04.17'S Long. 12° 39.93'E Depth 2199 m corr.
Core condition EXCELLENT Date Described 20 MAR 75 by Broda.
Physiographic location IN AREA OF SLUMPS: OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-77
CALC OOZE
5Y 6/4 pale olive
homogeneous throughout except one large olive burrow extending 2/3's the width of the liner at 75 cm
moist smooth lutite with a few scattered forams
end of core

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

Ship: Chain  Core No. 16 PG

Expedition 115  Station No. 23

Leg No. 2  Total Core Length 77 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | tr | | | tr | 45 | 4 | 45 | | | 3 | 2 | | 1 |
| 76 cm | calc ooze | | | | | 40 | 7 | 47 | | | 3 | 2 | | 1 |



VISUAL CORE DESCRIPTION

Page 1 of 3

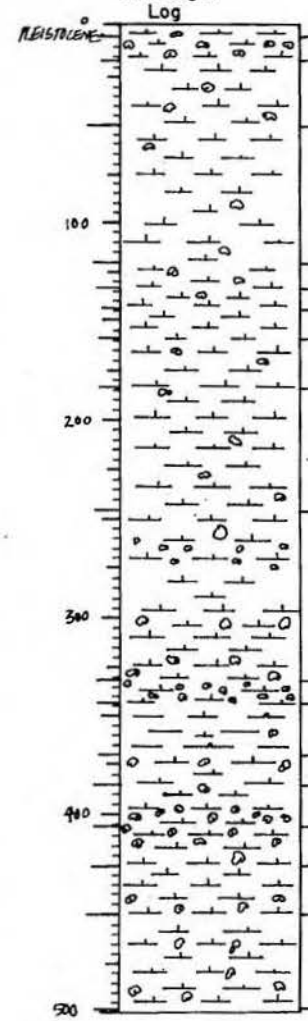
Ship CHAIN Cruise 115 Leg 2 Sta. 24 Core No. 17PC

Total Length 872 cm. Lat. 25°00.3'S Long. 10°48.3'E Depth 4254m.corr.

Core condition EXCELLENT Date Described 21MAR75 by J. Broda.

Physiographic location CONTINENTAL RISE OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-5
CALC OOZE
10YR 7/2 lt gray
very sl light brownish gray mottling at unit basal contact
scattered forams in very moist sl silty lutite
S mottled

5-17
CALC OOZE
10YR 6/4 light yellowish brown
intensively mottled with pale brown, light gray; hues of very pale brown and white
moist lutite with scattered forams
scattered tiny dk grayish brown flecks throughout
S, H

17-50
CALC OOZE
5Y 6/2 light olive gray
a number of large well formed white and light gray mottles and burrows throughout
moist slick lutite
27-32 cm several very silty, foram rich, pale yellow inclined laminations. At 42-45 cm 5Y 5/3 olive inclusion of sl silty lithified lumps of lutite. One burrow spanning entire liner sl concave upward at 24 cm
G

50-120
CALC OOZE
5YR 7/3 pale yellow grades to 8/2 white and back to 7/3 pale yellow
very faint lt gray mottling scattered throughout
moist sl silty lutite with scattered forams
scattered rusty flecks and streaks 100-115 cm
G

120-133
CALC OOZE
5Y 6/2 lt olive gray
sl pale yellow mottling found throughout
very few forams in moist slick lutite
sl lightening to light gray 7/2, 130-133 cm
S, Irregular

133-139
CALC OOZE
5Y 7/1 light gray
one light olive gray mottle at 135 cm
a few forams in moist slick lutite
S, Irregular

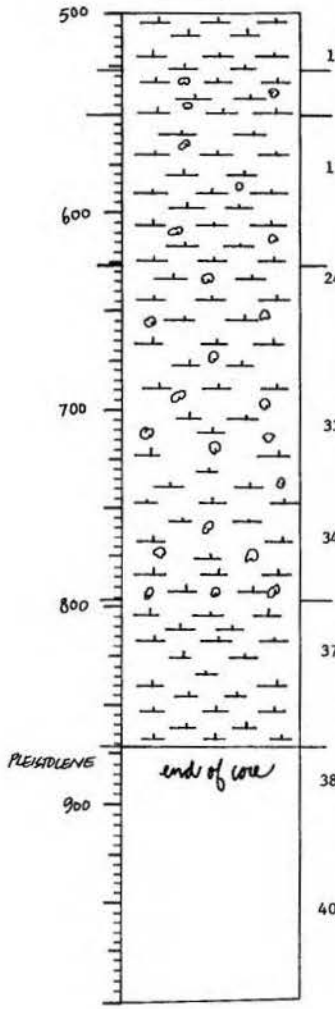
139-159
CALC OOZE
5Y 8/1 white
light gray speckles and flecks found commonly 139-143 cm, also one well defined burrow spans liner at 144 cm

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 24 Core No. 17PC

Lithologic Log




Detailed Description

moist sl silty lutite with scattered forams
S mottled

159-179
CALC OOZE
5Y 7/1 light gray
faint pale yellow marbling and burrowing found sl throughout
moist lutite with scattered forams
S, I

179-245
CALC OOZE
5Y 8/1 white
very faint light gray burrows and mottling
moist lutite with scattered forams
occasional rusty flecks found scattered throughout

245-332 G mottled
CALC OOZE
5Y 6/2 light olive gray, varying hues of 7/2 light gray
one large circular white mottle 256-259 cm, and abund. tiny white mottles 260-272 cm, common olive gray mottling and marbling elsewhere
firmer sl silty lutite with a few forams scattered
G mottled

332-343
CALC OOZE
5Y 6/4 pale olive
very extensive tiny light olive gray mottling throughout
firm smooth lutite, no forams visible
S mottled

343-370
SILIC CALC CLAY
5Y 4/3 olive grades to 5/3 olive
sl intermottling of two colors above in gradational zone
moist slick lutite, no forams
S mottled

370-385
CALC OOZE
5Y 7/2 light gray
abund. mottling 370-380 cm with above unit
firm slick lutite, no forams
a few tiny black flecks and specks scattered
S irregular

385-406
CALC OOZE
5Y 8/2 white
common large light olive gray mottles 385-394 cm, extensive tiny light olive gray mottling 394-406 cm
scattered forams in firm slick lutite
S mottled

406-425
CALC OOZE
5Y 6/2 light olive gray
very extensive tiny light gray mottles 406-417 cm, lg. burrows and light gray marbling 417-425 cm



VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 24 Core No. 17PC

Lithologic Log

Detailed Description

moist smooth lutite, no forams
S very irregular

425-450
NANNO OOZE
5Y 8/2 white grades to 7/1 light gray
abund. white mottling in light gray zone 440-450 cm
moist smooth lutite, scattered forams
G mottled

450-498
CALC OOZE
5Y 6/2 light olive gray grades to 5/2 olive gray
extensive intermottling and marbling of the two colors above plus a few white mottles 480-490 cm
moist smooth lutite
tiny black flecks found scattered 470-480 cm
S, H

498-527
NANNO OOZE
5Y 8/1 white
firm smooth lutite
hue varies slightly throughout
G

527-550
CALC OOZE
5Y 7/2 light gray grades to 6/2 light olive gray, back to 7/2
slight light gray mottling
firm smooth lutite with a few scattered forams
a few black flecks and streaks, 530-540 cm
G mottled

550-626
NANNO OOZE
5Y 8/2 white
faint pale yellow marbling throughout
firm almost plastic-like lutite with a few scattered forams and black flecks
G mottled

626-796
NANNO OOZE GRADES TO CALC OOZE
5Y 6/2 light olive gray grades to 7/2 light gray
common white, light gray and pale yellow mottling, a few odd 2.5Y 6/2 light brownish gray mottles 660-670 cm
firm smooth lutite with a few forams
several bands where 5Y 8/2 white dominates with light olive gray and light gray mottling abund. 725-740 cm, 745-759 cm, 766-780 cm
very G

796-872
NANNO OOZE
5Y 8/1 white
a few black flecks and streaks found scattered
firm plastic-like lutite, no forams visible
end of core

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

Ship: Chain  Core No. 17 PC

Expedition 115  Station No. 24

Leg No. 2  Total Core Length 872 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | silico flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | calc ooze | 1 | | | | 46 | 3 | 40 | | | 6 | 3 | | 1 | |
| 16 cm | calc ooze | 1 | | | tr | 58 | 3 | 30 | | | 5 | 2 | tr | 1 | |
| 20 cm | calc ooze | tr | | | tr | 55 | 2 | 35 | | | 5 | 2 | | 1 | tr |
| 31 cm | calc ooze | 1 | | | | 27 | 25 | 35 | | | 6 | tr | | 1 | |
| 150 cm | calc ooze | tr | | | | 31 | 10 | 55 | | | 3 | tr | | 1 | |
| 250 cm | calc ooze | 1 | | | | 36 | 4 | 55 | | | 2 | 1 | | 1 | |
| 350 cm | silic calc clay | 2 | tr | | | 90 | tr | 3 | | | | 2 | 1 | 2 | |
| 400 cm | calc ooze | tr | tr | | | 24 | 12 | 56 | | | 4 | 2 | tr | 2 | |
| 490 cm | calc ooze | tr | 1 | | | 56 | 1 | 35 | | | 5 | 1 | | 1 | |
| 510 cm | nanno ooze | tr | | | | 11 | 3 | 85 | | | | 1 | | tr | |
| 610 cm | nanno ooze | tr | | | | 12 | 5 | 80 | | | 2 | 1 | | tr | tr |
| 700 cm | nanno ooze | tr | | | | 7 | 2 | 85 | | | 3 | 2 | | 1 | |
| 800 cm | nanno ooze | tr | | | | 7 | 2 | 85 | | | 2 | 2 | | 2 | |
| 871 cm | nanno ooze | | | | | 12 | 2 | 80 | | | 3 | 2 | | 1 | |



VISUAL CORE DESCRIPTION  Page 1 of 1

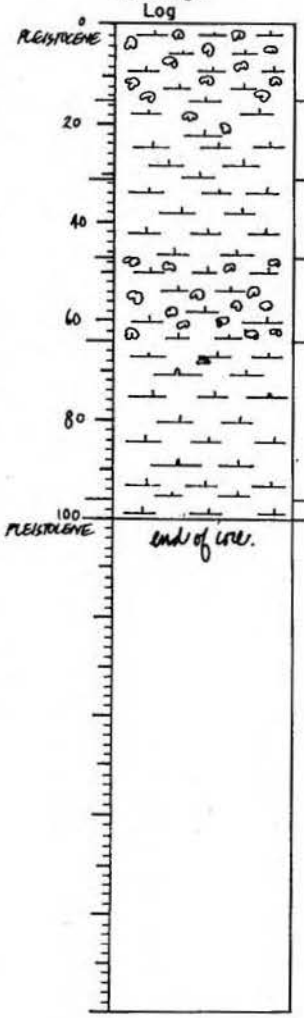
Ship CHAIN Cruise 115 Leg 2 Sta. 24 Core No. 17PG

Total Length 100 cm. Lat. 25°00.3'S Long. 10°48.3'E Depth 4254 m.corr.

Core condition EXCELLENT Date Described 24MAR.75 by J.Brada

Physiographic location CONTINENTAL RISE OFF SOUTHWEST AFRICA.

Lithologic Log




Detailed Description

0-15
CALC OOZE
10YR 6/4 lt yellowish brown
extensively mottled with pale brown, hues of very pale brown, white, and lt gray
scattered forams in moist lutite
S, H

15-31
CALC OOZE
5Y 6/2 lt olive gray
three well formed large white mottles 18-24 cm
moist slick lutite
28-30 cm a very silty pale yellow inclined lamination spans entire liner
S, I 5°

31-47
CALC OOZE
10YR 7/2 lt gray
homogeneous throughout
moist sl silty lutite, scattered forams
G mottled

47-64
CALC OOZE
10YR 6/4 lt yellowish brown
extensive pale brown, very pale brown, white and lt gray mottling
moist lutite with scattered forams
S

64-96
CALC SILIC OOZE
5Y 6/2 lt olive gray
one small white mottle 65 cm
moist slick lutite
75-80 cm several very silty pale yellow inclined laminations span entire liner
S

96-100
CALC OOZE
10YR 7/2 lt gray
homogeneous throughout
moist sl silty lutite with scattered forams

NOTE: because of irregular combinations and repetitive series of lithologies, this pilot core is suspected to be an example of multiple penetration (rebound) recovery,
1st penetration 0-31 cm
2nd penetration 31-96
3rd penetration 96-100 cm

end of core

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

Ship: Chain  Core No. 17 PG

Expedition 115  Station No. 24

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 |
| 1 cm | calc ooze | 1 | | | | 57 | 4 | 30 | | | 5 | 2 | tr | 1 |
| 25 cm | calc ooze | 1 | | | | 35 | 6 | 50 | | | 5 | 2 | tr | 1 |
| 35 cm | calc ooze | 1 | | | | 46 | 3 | 40 | | | 6 | 3 | | 1 |
| 70 cm | calc silic ooze | tr | | | tr | 55 | 2 | 35 | | | 3 | 4 | | 1 |
| 99 cm | calc ooze | 1 | | | | 35 | 8 | 45 | | | 8 | 2 | | 1 |

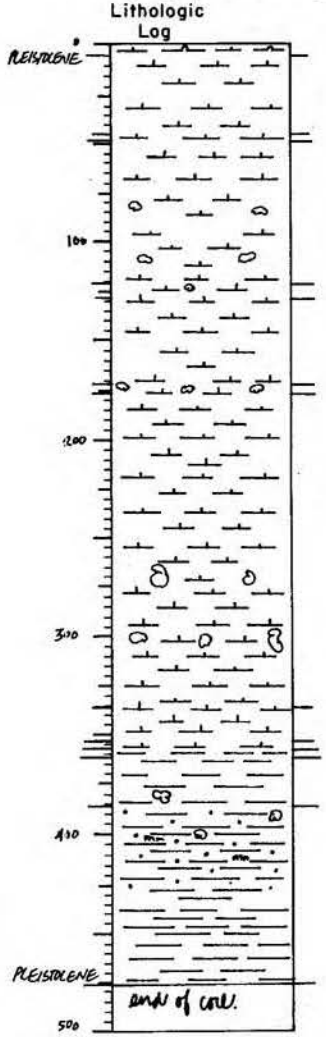


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 26 Core No. 19PC
Total Length 476 cm. Lat. 25° 25.67'S Long. 09° 15.07'E Depth 4685 m corr.
Core condition EXCELLENT Date Described 26MAR75 by J. Broda.
Physiographic location ABYSSAL PLAIN: CAPE BASIN.

Lithologic Log




Detailed Description

0-5
CALC SILIC OOZE
10YR 6/3 pale brown
grayish brown 5/2 marbling throughout
scattered forams in very moist sl silty lutite
washed and disturbed
S, I

5-45
CALC OOZE
10YR 7/2 light gray
extensive Mn-rich black and dk gray flecks and streaks throughout
firmer sl silty lutite with scattered forams
S, H

45-49
CALC OOZE
10YR 7/3 very pale brown
numerous dark gray and gray laminations and common marbling
firm smooth lutite with a few forams
S, sl concave downward

49-121
CALC OOZE
2.5Y 8/2 white
light gray 10YR 7/1 shadowy marbling found virtually throughout, missing only in laminated zone
firm smooth lutite with occasional forams
an unlikely but seemingly undisturbed, totally enclosed 1.5 cm diameter, lithified, hly calc clay nodule at 100 cm, also a very small 2 mm piece of the same found at 60 cm. 111-118 cm a series of light gray and white laminations 1-4 mm thick
S concave upward

121-128
CALC OOZE
2.5Y 7/2 light gray
extensive marbling (whirled) with 2.5Y 8/2 white
firm smooth lutite with a few forams
S, I

128-172
CALC OOZE
2.5Y 8/2 white
occasional faint 10YR 8/1 white or light gray marbling and mottling
firm smooth lutite with scattered forams
S, I

172-176
CALC OOZE
10YR 7/3 very pale brown
extensive marbling (whirled) with 2.5Y 8/2 white
sl silty lutite with scattered forams
S, marbled

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 26 Core No. 19PC

Lithologic Log

### Detailed Description

176-336
CALC OOZE WITH NANNO OOZE INCLUSIONS
2.5Y 8/2 white
various inclined swirls, laminations and marbling with 10YR 8/1 white, pale olive and light gray
firm smooth lutite with scattered forams
S concave
NOTE: This entire unit appears somewhat disturbed and disoriented. Highly inclined, non-continous and streaked features suggest flow-in, but well stratified sediments exist below this section in the core.

336-353
CALC OOZE
5Y 8/1 and 8/2 white
alternating sometimes incomplete laminations of colors above (all concave upward).
very firm smooth lutite, no forams
S very concave upward

353-356
CALC OOZE
5Y 6/2 light olive gray
firm smooth lutite, no forams
S, H

356-361
UNFOSS CLAY
5Y 6/4 pale olive
slight faint 10YR 5/3 brown marbling
very firm smooth lutite, no forams
brittle lithified olive pavement 2 mm thick at upper unit contact
G, marbled

361-386
UNFOSS CLAY
10YR 5/3 brown
firm compact smooth lutite
G

386-476
UNFOSS CLAY/Mn GRADES TO UNFOSS CLAY
10YR 4/3 dark brown
very large 5/3 brown mottles found commonly 386-440 cm, numerous clusters and streaks of black flecks throughout
very firm compact lutite, no forams
vertical orientation of black flecks suggests flow in 410-476 cm
end of core



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

Ship: Chain Core No. 19 PC
Expedition 115 Station No. 26
Leg No. 2 Total Core Length 476 cm

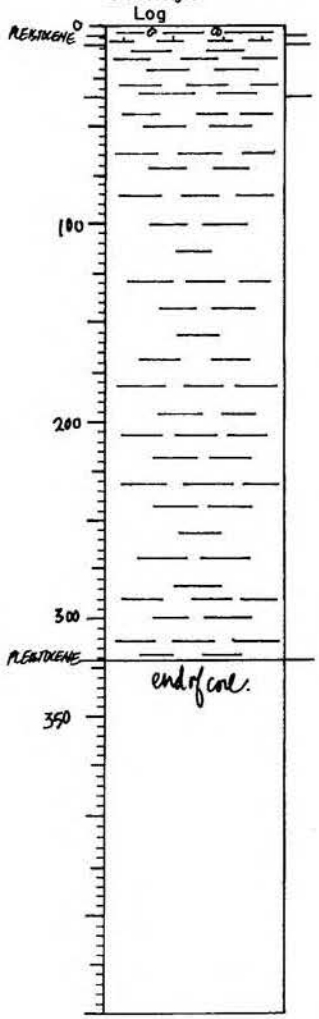
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc silic ooze | 1 | 1 | | tr | 48 | 3 | 40 | | tr | 2 | 3 | tr | 2 |
| black flecks 19 cm | calc ooze /Mn micro | 1 | 25 | | tr | 23 | 3 | 45 | | tr | 3 | | | |
| 40 cm | calc ooze | 1 | tr | | | 23 | 3 | 65 | | 1 | 6 | tr | | 1 |
| 48 cm | calc ooze | tr | tr | | | 40 | 3 | 50 | | 5 | 2 | | | tr |
| 90 cm | calc ooze | tr | tr | | | 25 | 5 | 69 | | 1 | 5 | tr | | tr |
| olive inclusion 100 cm | hly calc clay | 1 | | | | 72 | 2 | 20 | | 3 | 2 | | | |
| 175 cm | calc ooze | 1 | | | | 28 | 3 | 65 | | tr | 3 | tr | | tr |
| 200 cm | calc ooze | 1 | tr | | | 23 | 3 | 65 | | 1 | 6 | tr | | 1 |
| white mottle 215 cm | nanno ooze | 1 | tr | | | 15 | 2 | 75 | | 1 | 6 | tr | | tr |
| 300 cm | calc ooze | 2 | | | | 22 | 6 | 60 | | 1 | 8 | tr | | 1 |
| 350 cm | calc ooze | 2 | | | | 42 | 5 | 45 | | tr | 6 | | | tr |
| 354 cm | calc ooze | 1 | | | | 43 | 3 | 45 | | 1 | 7 | tr | | tr |
| 357 cm | unfoss clay | 12 | | | | 88 | | tr | | | tr | | | |
| 365 cm | unfoss clay | 10 | | | | 90 | | tr | | tr | tr | | | |
| black flecks 415 cm | unfoss clay/Mn micro | 5 | 35 | | | 60 | | tr | | | tr | | | |
| 475 cm | unfoss clay | 6 | 5 | | | 89 | | | | | tr | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 27 Core No. 20PC
Total Length 321 cm. Lat. 25° 02.4'S Long. 07°47.38'E Depth 4738 m
Core condition EXCELLENT Date Described 28MAR78 by [illegible]
Physiographic location CAPE BASIN NEAR WALVIS RIDGE.

Lithologic Log




### Detailed Description

0-4
UNFOSS CLAY
10YR 4/3 brown
extensive pale brown marbling and black flecks
firm slick lutite
S

4-8
CALC OOZE
10YR 6/3 pale brown
slight very pale brown marbling throughout
moist slightly silty lutite with abund. forams
S concave upward

8-35
UNFOSS CLAY
10YR 4/3 brown
abund. faint black splotches and flecks
firm slick lutite
very G

35-321
UNFOSS CLAY
10YR 4/4 dark yellowish brown
very homogeneous throughout
firm slick lutite
flow in suspected 35-321 cm
NOTE: core did not trip properly, corer eased into mud, then appeared to trip upon pullout.
end of core.



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

Ship: Chain Core No. 20 PC
Expedition 115 Station No. 27
Leg No. 2 Total Core Length 321 cm

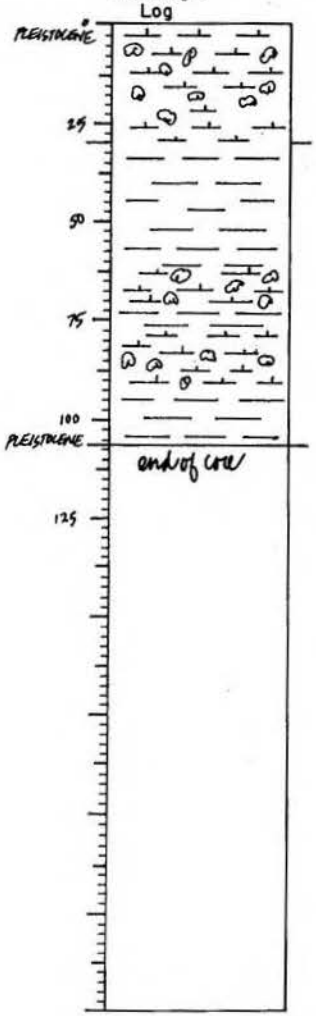
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | unfoss clay | 3 | 3 | | | 94 | tr | tr | | | tr | | | |
| 6 cm | calc ooze | 1 | tr | | tr | 46 | 3 | 45 | | tr | 3 | 1 | tr | 1 |
| 20 cm | unfoss clay | 4 | 7 | | | 89 | | tr | | | | | | |
| 200 cm | unfoss clay | 2 | 6 | | | 92 | | tr | | | | | | |
| 320 cm | unfoss clay | 2 | 5 | | | 93 | | tr | | | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 2 Sta. 27 Core No. 20PG
Total Length 107 cm. Lat. 25° 02.4'S Long. 07° 47.38'E Depth 4736 m-corr.
Core condition EXCELLENT Date Described 23MAR.75 by J Brown.
Physiographic location CAPE BASIN NEAR WALVIS RIDGE.

Lithologic Log




### Detailed Description

0-35
CALC OOZE
10YR 6/3 pale brown grades to 6/4 light yellowish brown
extensive very pale brown mottling throughout
moist sl silty lutite
G mottled

35-107
UNFOSS CLAY WITH MOTTLING ZONES OF CALC OOZE
10YR 5/3 brown
extensive light yellowish brown mottling 60-70 cm
common 75-92 cm
firm slicker lutite with scattered forams and black flecks
end of core



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

Ship: Chain Core No. 20-PG
Expedition 115 Station No. 27
Leg No. 2 Total Core Length 107 cm

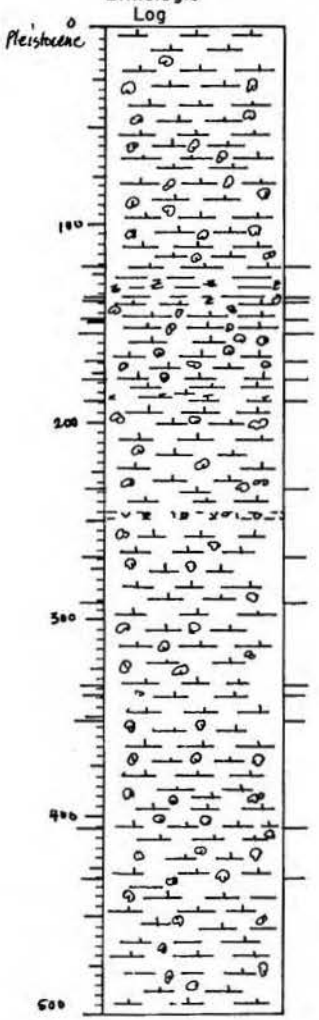
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | 1 | | | 44 | 6 | 40 | | 1 | 5 | 1 | tr | 1 |
| 50 cm | unfoss clay | 4 | 7 | | | 89 | | | | | | | | |
| 106 cm | unfoss clay | 2 | 7 | | | 91 | | | | | | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 29 Core No. 23PC
Total Length 877 cm. Lat. 25° 03.79'S Long. 07° 58.25'E Depth 4792 corrected meters
Core condition EXCELLENT Date Described 31 MAR 75 by J. Bradley
Physiographic location CAPE BASIN OFF WALVIS RIDGE

Lithologic Log




### Detailed Description

0-121
CALC OOZE GRADES TO NANNO OOZE
10YR 8/1 white
extensively mottled with 10YR 8/3 very pale brown and very faint light gray
very silty plastic lutite with extremely abnd. forams
a few brown semi-lithified inclusions scattered 60-120 cm
S, I

121-137
UNFOSS CLAY/ZEOLITES
10YR 4/4 dark yellowish brown
extensive intermarbling, 132-137, of light yellowish brown and 7.5Y 5/4 brown, texturally distinct sediments
moist lumpy lutite with a few scattered forams, intermottled zone has portions with abund. forams and others of slick lutite
S, I

137-139
NANNO OOZE
10YR 8/1 white
two large pale brown mottles found with unit
silty moist lutite with very abund. forams
S, H

139-148
CALC OOZE
10YR 6/4 light yellowish brown grades to 5/3 brown
extensive intermottling of two colors above
moist sl silty lutite with scattered forams and black flecks
G mottled

148-155
NANNO OOZE
10YR 8/1 white
very extensive light yellowish brown and pale brown mottling
moist somewhat lumpy lutite with scattered forams
S, H

155-169
CALC OOZE
10YR 6/4 light yellowish brown grades to 5/3 brown
extensive intermottling of two colors above
moist slick lutite, firmer than above
G mottled

169-178
NANNO OOZE
10YR 8/1 white
very extensive light yellowish brown mottling
moist somewhat lumpy lutite with scattered forams
S mottled

178-189
CALC OOZE
10YR 8/1 white

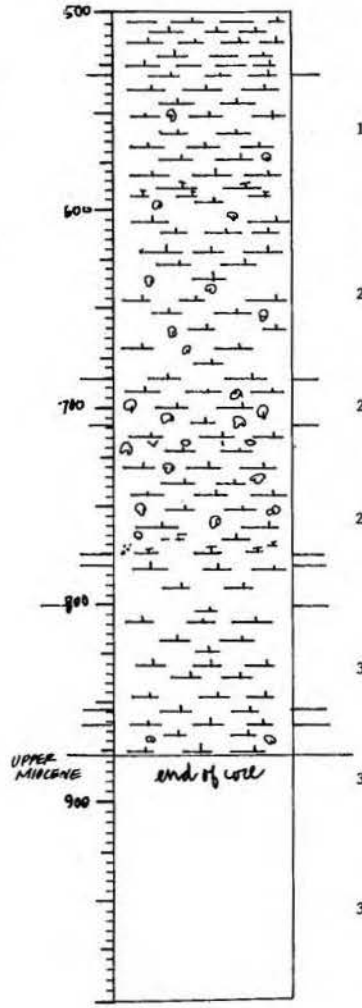


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 2 Sta. 29 Core No. 23PC

Lithologic Log




### Detailed Description

shadowy pale brown mottles found sl throughout
very firm plastic lutite with increasing foram content has sharp horizontal contact with 1 cm foram sand bed at unit basal contact
weathered reddish and black detrital grains found commonly in foram sand

189-233 S
CALC OOZE
10YR 6/4 light yellowish brown and 5/3 brown
extensive intermottling of two colors above plus a zone 193-202 cm of extensive white mottling
moist firm lutite with scattered forams, 189-222 cm a graded zone where forams are common at top and very abund. at bottom
S mottled

233-268
NANNO OOZE
10YR 8/1 white
common light yellowish brown mottling throughout
stiff plastic lutite with a few forams
S, H

268-292
CALC OOZE
10YR 5/4 yellowish brown
common white mottling grades to extensive
moist lumpy lutite with a few forams
G mottled

292-333
NANNO OOZE
10YR 8/1 white
common light yellowish brown mottling throughout
firm plastic lutite with a few forams
330-333 cm foram content rapidly increases and grades to nearly sand
S mottled

333-337
CALC OOZE
10YR 6/4 light yellowish brown
sl very pale brown mottling throughout
moist lutite with scattered forams
S mottled

337-352
NANNO OOZE
10YR 8/1 white
extensive very pale brown mottling grades to sl scattered
firm plastic lutite, scattered forams
graded bedding of forams and fragments 347-352 cm
S inclined 20°

352-406
CALC OOZE
10YR 4/3 dark brown
extensive white foram-rich mottling 370-384 cm
moist slick lutite with silty foram-rich mottles
G mottled

Ship CHAIN Cruise 115 Leg 2 Sta. 29 Core No. 23PC

Lithologic Log

Detailed Description

406-431
CALC OOZE
10YR 7/4 very pale brown
very extensive small white and yellowish brown mottling throughout
firm sl silty lutite;foram content increase with depth from scattered to abund.
S mottled

431-530
CALC OOZE (WHITE ZONES) AND SL CALC CLAY (DARK BROWN ZONES)
10YR 4/3 dark brown and 8/1 white
alternating bands of fairly homogeneous brown lutite and extensively mottled chalky ooze, mottling is mostly very pale brown and light yellowish brown
firm compact lutite with varying foram content,most abund. 464-474 cm, 496-502 cm
lighter zones 437-450 cm, 466-473 cm, 485-502 cm, 524-530
G mottled

530-685
NANNO OOZE
10YR 8/1 white
sl faint very pale brown and light yellowish brown mottling throughout: one large spherical dark brown mottle 536-539 cm, dark brown lamination 545-547 cm, very pale brown lamination 590-593 cm,light yellowish brown band 670-675 cm
firm plastic lutite with a few forams and black flecks throughout, graded foram sand bed 587-591 cm
faint concave upward black fleck laminations scattered throughout, void 563-566 cm
S sl concave upward

685-708
CALC OOZE
10YR 6/4 light yellowish brown
extensive large white and very pale brown mottles throughout
firm compact sl silty lutite with scattered forams
S mottled

708-775
CALC OOZE
10YR 5/4 brown grades to 6/4 light yellowish brown to 7/4 very pale brown
extensive intermottling of colors above 715-735 cm, sl thereafter
firm compact lutite with a few forams
void 717-721 cm, somewhat graded bedding of forams and black flecks 770-775 cm
S, H

775-780
CALC OOZE
10YR 4/4 dark brown
moist silty lutite with abund. forams and black det.grains
very S



Ship CHAIN Cruise 115 Leg 2 Sta. 29 Core No. 23PC

Lithologic Log

Detailed Description

780-800
CALC OOZE
10YR 8/1 white
well graded foram-det.sand;coarse to fine
numerous dark red and black det.grains mixed throughout
S, textural

800-853
NANNO OOZE
10YR 8/1 white
very stiff plastic lutite with abund. forams and black fleck in the interval 834-846 cm
S, textural

853-861
CALC OOZE
10YR 8/1 white
somewhat graded foram-det.sand exactly as above
numerous dark red and black det.grains mixed throughout
very S, H

861-877
CALC OOZE
10YR 4/4 dark brown
sl faint light yellowish brown mottling
moist firm lutite with scattered forams
could be disturbed or flow in during late pullout, upper contact does not seem likely.
end of core

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

Ship: Chain  Core No. 23 PC

Expedition 115  Station No. 29

Leg No. 2  Total Core Length 877 cm

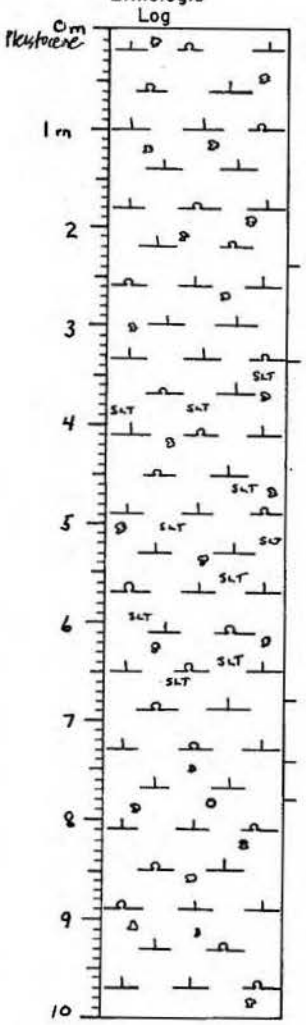
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 2 | tr | | | 16 | 30 | 45 | | | 6 | | | |
| 100 cm | nanno ooze | | | | | 10 | 3 | 81 | | 3 | 3 | | | |
| 130 cm | unfoss clay /zeolites | 2 | 3 | 30 | 1 | 64 | | tr | | | | | | |
| 188 cm | calc ooze | 3 | 5 | | | 2 | 60 | 30 | | | tr | | | |
| 280 cm | calc ooze | 3 | 2 | | | 55 | tr | 35 | | 3 | 2 | | | |
| 320 cm | nanno ooze | | | | | 7 | 1 | 85 | | 7 | tr | | | |
| 420 cm | calc ooze | tr | | | | 42 | 1 | 50 | | 5 | 2 | | | |
| 480 cm | sl calc clay | 3 | 5 | | | 87 | | 5 | | tr | tr | | | |
| 580 cm | nanno ooze | tr | 1 | | | 10 | 1 | 80 | | | 1 | | | |
| 670 cm | calc ooze | 2 | 1 | | 1 | 58 | 2 | 30 | | 4 | 2 | | | |
| 770 cm | calc ooze | 2 | tr | | tr | 26 | 15 | 50 | | 2 | 5 | | | |
| 790 cm | calc ooze | 3 | 5 | | | 3 | 60 | 25 | | | 4 | | | |
| 850 cm | calc ooze | 1 | tr | | | 21 | 1 | 70 | | 7 | tr | | | |
| 876 cm | calc ooze | 1 | 4 | | | 60 | 2 | 25 | | 6 | 2 | | | |



VISUAL CORE DESCRIPTION  Page 1 of 2

Ship CHAIN Cruise 115 Leg 4 Sta. 32 Core No. 24 PC
Total Length 1176 cm. Lat. 41°01.9'S Long. 14° 41.3'E Depth 4347 corr m
Core condition Excellent Date Described 16 June 75 by R McGirr
Physiographic location Cape Basin

Lithologic Log




Detailed Description

0-236
CALC SILIC OOZE
light gray 5Y 5/1 to 5Y 5/2 olive gray with many shades in between
various sizes of mottles throughout of gray and olive hues scattered to common, this burrowing probably has resulted in the mottled appearance of the unit which at one time may have consisted of many smaller, visually distinct lithologies
somewhat slick fairly silty lutite
occasional fuzzy near-horizontal, thin laminations usually greenish; top 3 cm are brown and appear slightly washed
G

236-332
CALC SILIC OOZE
5Y 5/2 olive gray to 4/2 at 318 cm
scattered to common mottling throughout major colors
somewhat slick fairly silty lutite
S irregular

332-678
CALC SILIC OOZE WITH DETRITUS
5Y 6/1 gray, 7/1 light gray and similar hues of gray and olive
common mottling throughout of the major colors, definite signs of bioturbation in places
unit may in reality be composite of many small units of differing lithologies that have since been partially homogenized thru bioturbation
G

678-740
CALC SILIC OOZE
5Y 7/1 light gray
faint mottling only throughout of gray
somewhat slick fairly silty lutite
very homogeneous appearing unit with little indication of bioturbation
G

740-779
CALC SILIC OOZE
5Y 5/2 olive gray
occasional mottles olive gray
fairly slick firm silty lutite
1/2 cm diameter basalt pebble at 769 cm
S irregular

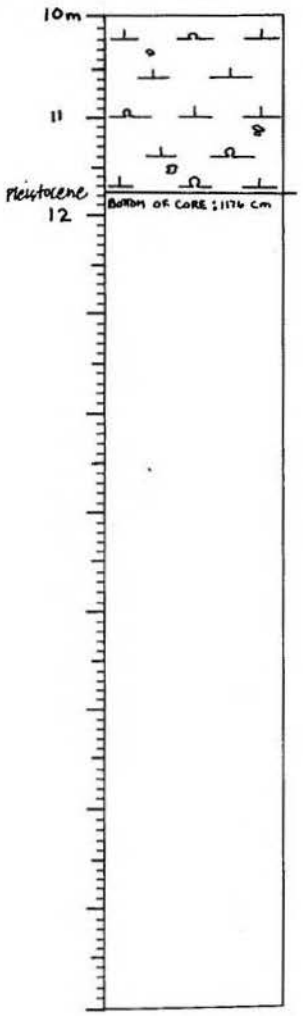
779-1176
CALC SILIC OOZE
5Y 7/1 light gray, 5/2 olive gray and intermediate shades
variable density, from scattered to common mottling of major colors
general lightening and darkening of unit color about 6 times common mottling (burrowing) between these different-colored areas, occasional homogeneous areas as well 1161-1176
cutter
end of core

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 32 Core No. 24 PC

Lithologic Log




Detailed Description



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

Ship: Chain Core No. 24 PC

Expedition 115 Station No. 32

Leg No. 4 Total Core Length 1176 cm

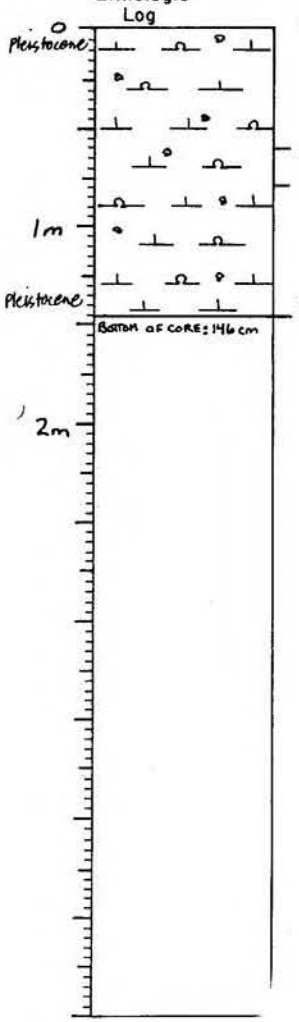
| Pyrite | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 cm | calc silic ooze | 4 | 1 | | tr | 22 | 25 | 30 | | | 5 | 8 | | 4 | |
| 2 | 100 cm | calc silic ooze | 7 | tr | | 2 | 30 | 25 | 15 | | tr | 5 | 7 | 1 | 6 | tr |
| tr | 200 cm | calc silic ooze | 10 | 2 | | 3 | 36 | 15 | 20 | | | 3 | 4 | 1 | 6 | |
| 2 | 300 cm | calc silic ooze | 6 | 1 | | 1 | 40 | 15 | 17 | | tr | 4 | 6 | 1 | 7 | |
| tr | 400 cm | calc silic ooze with det | 20 | | | 1 | 35 | 15 | 15 | | | 5 | 3 | 1 | 5 | tr |
| 1 | 500 cm | calc silic ooze | 15 | tr | | tr | 20 | 18 | 34 | | | 5 | 1 | tr | 6 | |
| 1 | 600 cm | calc silic ooze with det | 20 | tr | | | 23 | 15 | 20 | | tr | 5 | 8 | tr | 8 | |
| tr | 700 cm | calc silic ooze | 10 | tr | | | 25 | 20 | 30 | | | 5 | 5 | | 5 | |
| 1 | 800 cm | calc silic ooze | 7 | tr | | | 40 | 10 | 22 | | | 5 | 10 | | 5 | |
| tr | 900 cm | calc silic ooze | 10 | tr | | 2 | 27 | 20 | 5 | | tr | 5 | 10 | tr | 6 | |
| 2 | 1000 cm | calc silic ooze | 7 | tr | | tr | 25 | 10 | 25 | | tr | 5 | 15 | 1 | 10 | tr |
| 1 | 1100 cm | calc silic ooze | 8 | tr | | tr | 36 | 15 | 20 | | | 5 | 8 | tr | 7 | |
| tr | 1160 cm | calc silic ooze | 5 | tr | | | 22 | 15 | 40 | | | 5 | 8 | | 5 | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 4 Sta. 32 Core No. 24 PG
Total Length 146 cm. Lat. 41°01.9'S Long. 14° 41.3'E Depth 4347 corr m
Core condition EXCELLENT Date Described 16 JUNE 75 by R McGIRR
Physiographic location Cape Basin

Lithologic Log




### Detailed Description

0-61
CALC SILIC OOZE
5Y 6/2 light olive gray
scattered mottling throughout, 1mm to 2 cm across, gray and olive gray
moist firm silty lutite
S horizontal

61-78
CALC SILIC OOZE
10YR 7/2 light gray and 5/3 brown
scattered mottling throughout of two major colors
smooth, firm silty lutite
horizontal interlaminations of the two major colors and related shades
G

78-146
CALC SILIC OOZE
5Y 5/3 olive, 7/1 light gray and related shades
occasional mottles throughout of major colors
smooth, firm silty lutite
many thin horizontal interlaminations of major colors throughout
end of core



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

Ship: Chain Core No. 24 PG
Expedition 115 Station No. 32
Leg No. 4 Total Core Length 146 cm

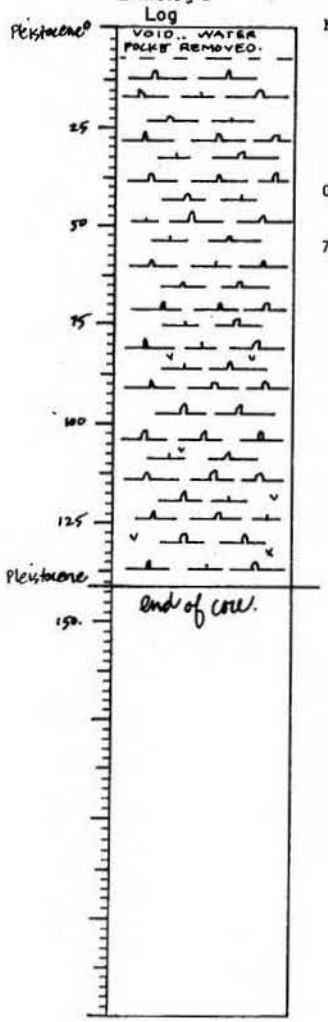
| Opaques | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 4 | 1 cm | calc silic ooze | 8 | 1 | | 1 | 40 | 4 | 20 | | tr | 10 | 7 | | 5 |
| 4 | 65 cm | calc ooze | 5 | 1 | | tr | 35 | 20 | 15 | | | 15 | 2 | | 3 |
| 2 | 90 cm | calc silic ooze | 7 | 1 | | tr | 48 | 10 | 15 | | | 10 | 3 | tr | 5 |
| 3 | 145 cm | calc silic ooze | 5 | tr | | tr | 48 | 10 | 15 | | | 10 | 3 | | 6 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 34 Core No. 25PC
Total Length 141 cm. Lat. 51° 00.0'S Long. 05°19.8'E Depth 3788m.corr
Core condition EXCELLENT/DISTURBED. Date Described 15 JUNE 75 by J. Ruda.
Physiographic location NORTHEAST OF TRIPLE JUNCTION.

Lithologic Log




### Detailed Description

Note;

Piston core pretripped but was nonetheless lowered to the seafloor, in an attempt to secure a gravity core sample. As a result of the pretrip, however, the core cutter, catcher and bottom two sections of liner were lost (retaining screws having sheared); thus this sediment (25PC) had to be extruded from the stainless core pipe. It is highly disturbed and unstratified and represents no better than a surface sediment grab sample.

0-7

Water pocket removed after core had settled, (liner also shortened by 7 cm)

7-141

SILIC CALC OOZE
2.5Y 7/2 light gray grades to 6/2 light brownish gray unstratified swirling and marbling of above colors in the zone 40-70 cm with some olive and dark gray hues
very moist unconsolidated siliceous, sponge-like lutite becoming very silty at 60 cm as a result of numerous pumice and ash fragments
end of core



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

Ship: Chain Core No. 25 PC
Expedition 115 Station No. 34
Leg No. 4 Total Core Length 141 cm

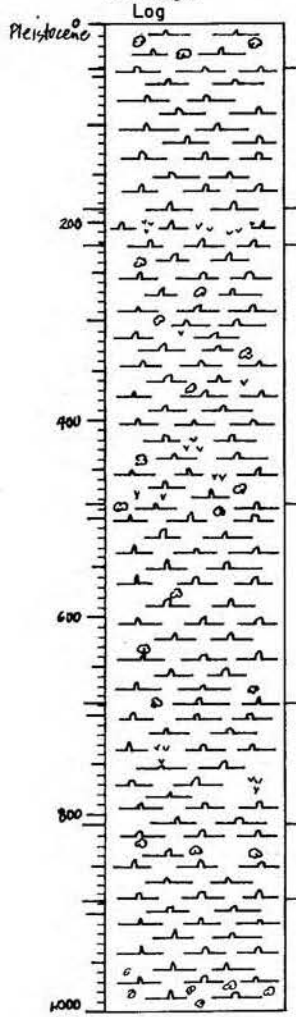
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | silico flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 10 cm | silic calc ooze | 2 | | | | 10 | 3 | 7 | | | 4 | 62 | 2 | 8 | 2 |
| 75 cm | silic ooze | 3 | | | 7 | 12 | tr | tr | | | 4 | 67 | 1 | 5 | 1 |
| 140 cm | silic calc ooze | 2 | | | 6 | 10 | 8 | 2 | | | 5 | 60 | 1 | 5 | 1 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 35 Core No. 26PC
Total Length 1190 cm. Lat. 53° 36.0'S Long. 00° 06.0'E Depth 2643 m. corr.
Core condition EXCELLENT. Date Described 10 June 75 by J. Broda.
Physiographic location EAST FLANK OF MID-ATLANTIC RIDGE AXIS.. TRIPLE JUNCTION.. MAGNETIC ANOMALY 4!

Lithologic Log




### Detailed Description

0-41
DIATOM OOZE
2.5Y 6/4 light yellowish brown grades to 5/4 light olive brown
common intermottling of the colors above plus a few very pale brown burrows
very moist lutite (sponge-like)
a little washing along liner 20-45 cm
S irregular

41-185
DIATOM OOZE
7.5YR 8/4 pink and 5Y 6/3 pale olive
intermittent zones of the two colors above throughout: most dominant olive zones 78-85 cm, 110-117, 175-185, plus many smaller ones
very moist sponge-like lutite
very high water content top of section 7. 110-115 cm washed and disturbed
G

185-222
DIATOM OOZE
2.5Y 7/4 pale yellow
very abund. clusters of black ash flecks and fragments
moist silty sponge-like lutite
again some washing and disturbance on liners edge
very G

222-486
DIATOM OOZE
5Y 5/2 olive gray grades to 2.5Y 5/2 grayish brown
occasional light brownish gray and light gray mottling and marbling plus scattered clusters of black ash flecks and pumice fragments
drier more compact very silty (ash) lutite
several large (1 cm diameter) chunks of pumice found 420-485 cm
G

486-688
DIATOM OOZE
10YR 8/4 very pale brown grades to 7/4 very pale brown
a few grayish brown mottles at upper unit contact; elsewhere faint shadowy irregular and elongated mottling found slightly throughout
again very moist sponge-like lutite
ash clusters begin at 683 cm and continue to end of unit
G

688-810
DIATOM OOZE
5Y 5/2 olive gray
scattered black and dark gray clusters of ash and pumice fragments
stiffer more compact but still sponge-like lutite
G

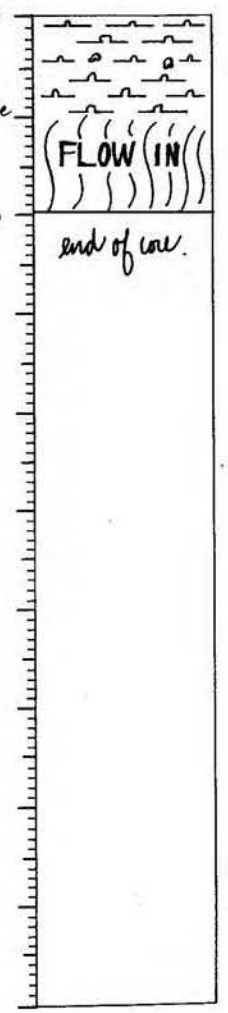


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 35 Core No. 26PC

Lithologic Log




### Detailed Description

810-888
DIATOM OOZE
10YR 7/3 very pale brown grades to 8/4 very pale brown
scattered light gray mottling 810-835 cm
stiff compact sponge-like lutite
pumice fragments and ash clusters common; some vertical orientation of features in the zone 810-880 cm, does not appear to be flow in; core may have settled while in horizontal storage before splitting
G

888-948
DIATOM OOZE
5Y 5/2 olive gray grades to 6/3 pale olive
slight intermottling of the two colors above in gradational zone
silty (ash) stiff sponge-like lutite
abund. black ash and pumice fragments throughout
G

948-1010
DIATOM OOZE
10YR 8/4 very pale brown
common small light gray spherical ash mottles throughout
very moist sponge-like lutite
G mottled

1010-1100
DIATOM OOZE
10YR 5/2 olive gray
only a few small ash mottles found scattered throughout
stiff silty lutite with a few 1 cm diameter irregular chunks of pumice
G

1100-1190
FLOW IN

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

Ship: Chain  Core No. 26 PC

Expedition 115  Station No. 35

Leg No. 4  Total Core Length 1190 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | diatom ooze | tr | tr | | | 2 | | tr | | | 2 | 70 | 2 | 20 | 4 |
| 80 cm | diatom ooze | | | | | 3 | tr | | | | 1 | 77 | 1 | 15 | 3 |
| 195 cm | diatom ooze | | | | | 2 | | | | | tr | 85 | tr | 10 | 3 |
| 300 cm | diatom ooze | | | | 4 | 1 | | | | | tr | 82 | 8 | 5 | |
| 400 cm | diatom ooze | tr | | | 1 | 5 | | | | | tr | 83 | 4 | 5 | 2 |
| 495 cm | diatom ooze | | | | tr | 2 | | | | | | 85 | 3 | 8 | 2 |
| 600 cm | diatom ooze | tr | | | | 2 | 1 | | | | 2 | 84 | 3 | 5 | 3 |
| 680 cm | diatom ooze | | | | | 5 | tr | | | | 2 | 83 | 2 | 5 | 3 |
| 691 cm | diatom ooze | tr | | | 5 | 3 | | | | | tr | 79 | 4 | 6 | 3 |
| 800 cm | diatom ooze | | | | 3 | 10 | | | | | tr | 77 | 3 | 4 | 3 |
| 900 cm | diatom ooze | | | | 7 | 5 | | | | | tr | 77 | 4 | 5 | 2 |
| 1000 cm | diatom ooze | tr | | | 1 | 1 | | | | | | 90 | 2 | 5 | 1 |
| 1100 cm | silic ooze | tr | | | 8 | 10 | | | | | 2 | 70 | 2 | 6 | 2 |
| 1189 cm | silic ooze | 1 | | | 8 | 18 | tr | | | | 3 | 58 | 4 | 5 | 2 |



VISUAL CORE DESCRIPTION

Page 1 of 1

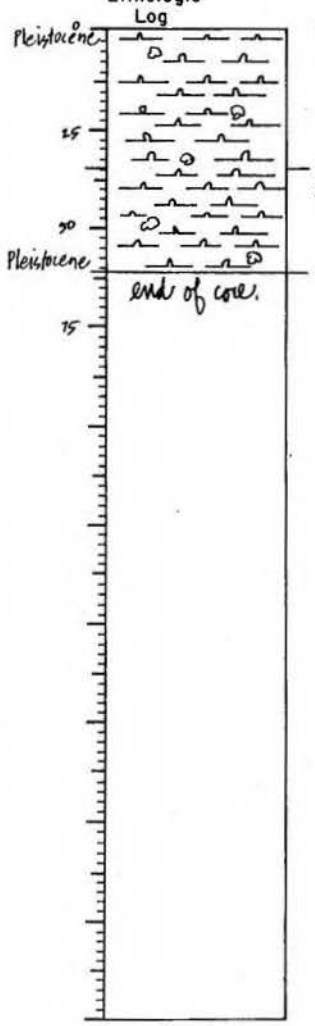
Ship CHAIN Cruise 115 Leg 4 Sta. 35 Core No. 26PG

Total Length 61 cm. Lat. 55° 36.0'S Long. 00°06.0'E Depth 2643m.corr.

Core condition EXCELLENT Date Described 9 MAY 75 by J. Broda.

Physiographic location EAST FLANK OF MID-ATLANTIC RIDGE AXIS.. TRIPLE JUNCTION.. MAGNETIC ANOMALY 4

Lithologic Log




Detailed Description

0-34

DIATOM OOZE
10YR 7/4 very pale brown grades to 6/4 light yellowish brown
slight faint pale olive and brown mottling and marbling throughout
moist sponge like silic mulch
two separate pyritized worm tubes; one fragmented, found at 5 and 20 cm
S inclined 10°

34-61

DIATOM OOZE
10YR 7/4 very pale brown grades to 6/4 light yellowish brown
slight faint olive and grayish brown mottling
moist sponge-like silic mulch
end of core

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

Ship: Chain  Core No. 26 PG

Expedition 115  Station No. 35

Leg No. 4  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 | silice flag. |
| 1 cm | diatom ooze | 1 | | | | | 3 | | | | 4 | 83 | 2 | 5 | 2 |
| 61 cm | diatom ooze | tr | | | | | 1 | | | | 2 | 89 | 1 | 5 | 2 |



VISUAL CORE DESCRIPTION



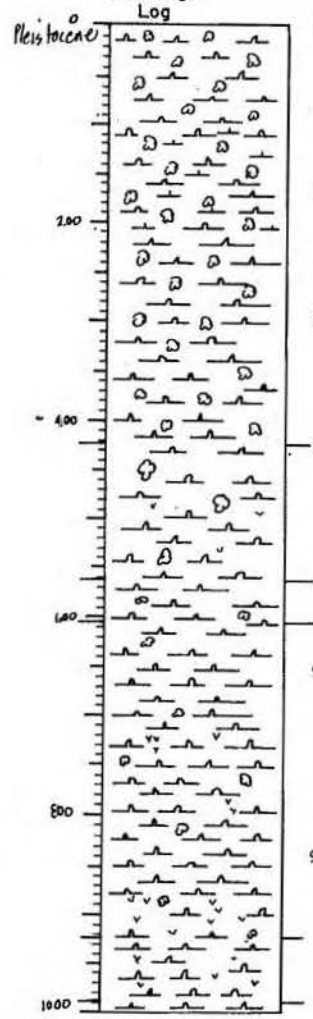
Ship CHAIN Cruise 115 Leg 4 Sta. 36 Core No. 27PC

Total Length 1135 cm. Lat. 54° 42.1'S Long. 02°05.1'W Depth 3140 m. corr.

Core condition EXCELLENT Date Described 16 JUNE 75 by J. Gieskes

Physiographic location WESTERN FLANK .... MIDATLANTIC RIDGE

Lithologic Log




Detailed Description

0-422
DIATOM OOZE GRADES TO SILIC CALC OOZE AND BACK TO DIATOM OOZE
5Y 6/3 pale olive and 5/3 olive
extensive complete intermottling and marbling of the two colors above
moist generally unconsolidated sponge-like siliceous mulch with occasional pockets of ash and pumice fragments
0-80 cm very soupy
G

422-561
DIATOM OOZE
5Y 7/3 pale yellow grades to 2.5Y 7/4 pale yellow
common very large spherical pale olive mottles throughout and a few concave upwards light gray laminations
moist firmer sponge-like silic mulch
S concave upward

561-603
DIATOM OOZE
2.5Y 6/2 light brownish gray
slight faint pale yellow marbling and .5 cm-1cm laminations (concave up)
stiffer more compact lutite with abund. black pumice flecks
G marbelled

603-922
DIATOM OOZE GRADES TO SILIC OOZE
2.5Y 5/2 grayish brown grades slowly to 4/2 dark grayish brown
occasional olive light gray and dark grayish brown marbling and mottling
relatively stiff compact lutite with varying ash and pumice content; generally slight with a few pockets rich in ash (880-920 cm)
large sharp irregular 3cm x 5 cm pumice fragment (ice rafted) 720-724 cm
very S

922-987
SILIC OOZE WITH LAMINATIONS OF DIATOM OOZE
2.5Y 6/2 light brownish gray
repeated and quite distinct laminations 1-1.5 cm wide of rigidly bonded silic material ocurring in tough beds throughout the unit, generally white 922-965, pale yellow 965-987 cm
background matrix between beds is moist unconsolidated lutite with scattered ash and pumice fragments
S Horizontal

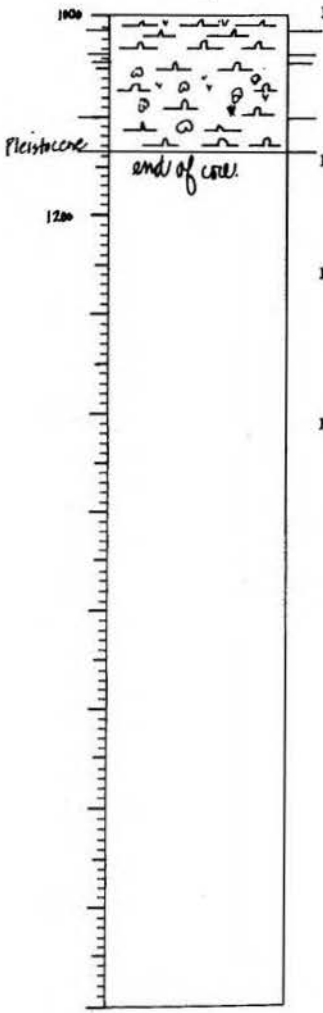
987-1012
DIATOM OOZE
2.5Y 5/2 grayish brown
slight light brownish gray marbling throughout
moist silty lutite with abund. ash/pumice fragments
G mottled

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 36 Core No. 27PC

Lithologic Log




### Detailed Description

1012-1034
SILIC OOZE
2.5Y 6/2 light brownish gray
occasional fine grayish brown laminations and a few mottles of the same hue
moist slightly silty lutite with ash and pumice only in mottles
very S Horizontal

1034-1043
SILIC OOZE
2.5Y 4/2 dark grayish brown and N 2.5/ black
moist lutite with very abund. ash and pumice fragments grades to pure ash bed
S horizontal

1043-1100
SILIC OOZE AND ASH
2.5Y 6/2 light brownish gray grades to 5/2 grayish brown
extensive intermarbelling of colors above plus some light gray silic mulch scattered in
texturally uncontinuous combination of moist lutite, sponge-like mulch and ash-pumice fragments
G

1100-1135
SILIC OOZE
2.5Y 7/2 light gray
a few large gray mottles 1100-1115 cm
very moist sponge-like silic mulch with scattered ash and pumice in mottles
end of core



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

Ship: Chain Core No. 27 PC

Expedition 115 Station No. 36

Leg No. 4 Total Core Length 1135 cm

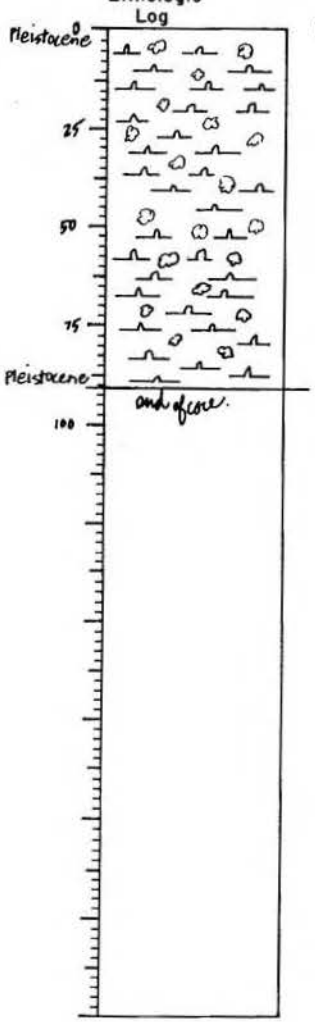
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | silico flag |
| 1 cm | diatom ooze | tr | | | | tr | | | | | 3 | 89 | tr | 4 | 4 |
| 100 cm | silic calc ooze | tr | | | | 3 | 4 | 3 | | | 4 | 80 | 1 | 2 | 3 |
| 200 cm | diatom ooze | tr | | | | | tr | | | | 3 | 89 | 1 | 3 | 4 |
| 300 cm | diatom ooze | | | | | tr | | | | | 2 | 90 | tr | 5 | 3 |
| 400 cm | diatom ooze | | | | | tr | | | | | 1 | 91 | 1 | 4 | 3 |
| 500 cm | diatom ooze | | | | | tr | | | | | 4 | 85 | 2 | 5 | 4 |
| 533 cm | diatom ooze | | | | | | 5 | tr | | | 3 | 84 | 1 | 3 | 4 |
| 600 cm | diatom ooze | | | | 8 | 8 | | | | | 4 | 72 | 2 | 3 | 3 |
| 700 cm | silic ooze | 2 | | | 10 | 25 | | | | | 3 | 56 | 3 | tr | 1 |
| 800 cm | silic ooze | 12 | | | 8 | 18 | | | | | 2 | 55 | 2 | 1 | 2 |
| 900 cm | silic ooze | 10 | | | 8 | 15 | | | | | 2 | 59 | 2 | 2 | 2 |
| 925 cm | silic ooze | 8 | | | | 20 | | | | | 1 | 68 | 2 | 1 | tr |
| 955 cm | silic ooze | 4 | | | | 16 | | | | | 2 | 76 | 1 | 1 | tr |
| 987 cm | diatom ooze | | | | | 10 | | | | | | 89 | tr | 1 | tr |
| 1030 cm | silic ooze | 5 | | | | 30 | | | | | 2 | 60 | | | 3 |
| 1044 cm | ash | 5 | | | 75 | 5 | | | | | tr | 14 | | | 1 |
| 1100 cm | diatom ooze | tr | | | 6 | 8 | | | | | 3 | 79 | 1 | 2 | 1 |
| 1134 cm | silic ooze | 4 | | | | 25 | | | | | 2 | 65 | 1 | tr | 2 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 36 Core No. 27PG
Total Length 91 cm. Lat. 54° 42.1'S Long. 02° 05.1'W Depth 3140 m.corr.
Core condition EXCELLENT Date Described 16 Jan. 75 by J. Bada.
Physiographic location WESTERN FLANK ... MIDATLANTIC RIDGE

Lithologic Log




### Detailed Description

0-91

DIATOM OOZE
5Y 6/3 pale olive and 5/3 olive
extensive and complete intermottling and marbling of the two colors above
very moist unconsolidated sponge-like silic mulch
end of core



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

Ship: Chain Core No. 27 PG
Expedition 115 Station No. 36
Leg No. 4 Total Core Length 91 cm

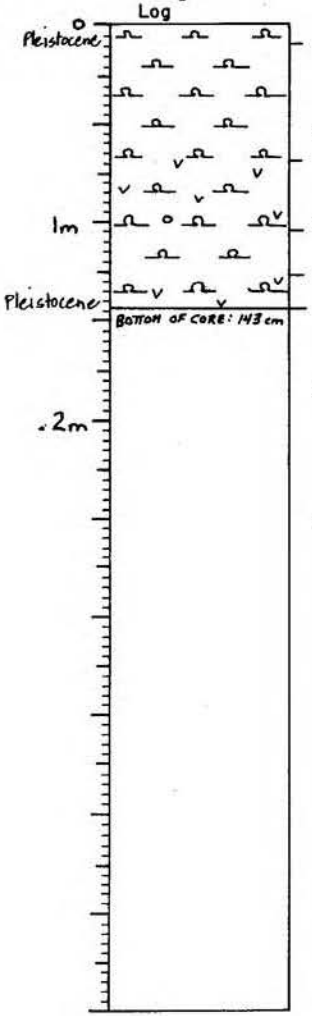
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | diatom ooze | tr | | | | 2 | | | | | 2 | 90 | | 3 | 3 |
| 90 cm | diatom ooze | tr | | | | 5 | | | | | 4 | 87 | tr | 2 | 2 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 43 Core No. 32 GC
Total Length 143 cm. Lat. 54° 35.5'S Long. 00° 04.8'E Depth 1260 corr m
Core condition EXCELLENT Date Described 16 JUNE 75 by R McGIRR
Physiographic location Spiess Ridge, Slightly East of Central Anomaly Triple Junction

Lithologic Log




### Detailed Description

0-9
SILIC OOZE
5Y 4/3 olive
sandy silty, spongy, lutite material
small black specks throughout
G appears washed

9-67
DIATOM OOZE
5Y 6/3 pale olive and 6/4
moist, spongy lutite
G

67-104
SILIC OOZE/VOLCANICS
N2.5/ black
sandy, spongy lutite
probable disturbance of unit due to spin magnetometer work, unit apparently has resettled horizontally with heavier grains towards the liner and finer material on the inside
pumice chunk 1 cm x 2 cm at 99 cm
S irregular

104-126
DIATOM OOZE
2.5Y 8/4 pale yellow
firm, moist spongy lutite
faint, slightly concave up laminations throughout, some contamination with upper unit 104-109 cm
S irreular

126-143
SILIC OOZE/VOLCANICS
5Y 6/3 pale olive and 6/4
several large inclusions of black sand, possibly washed and not stratigraphically meaningful
firm, moist spongy lutite
1 sample taken at 139 cm unit possibly disturbed due to spin magnetometer
S
end of core



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

Ship: Chain Core No. 32 GC
Expedition 115 Station No. 43
Leg No. 4 Total Core Length 143 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | silic ooze | 5 | | | 7 | 9 | 10 | | | | 5 | 60 | | 3 | 1 |
| 40 cm | diatom ooze | 3 | | | 5 | 6 | tr | | | | 3 | 80 | | 2 | 1 |
| 100 cm | silic ooze/volcanics | 55* | | | 8 | 6 | | | | | | 25 | 3 | 3 | tr |
| 123 cm | diatom ooze | | | | tr | 5 | 2 | | | | 2 | 90 | | tr | 1 |
| 142 cm | silic ooze/volcanics | 30* | | | 20 | 5 | 1 | | | | 2 | 39 | | 2 | 1 |

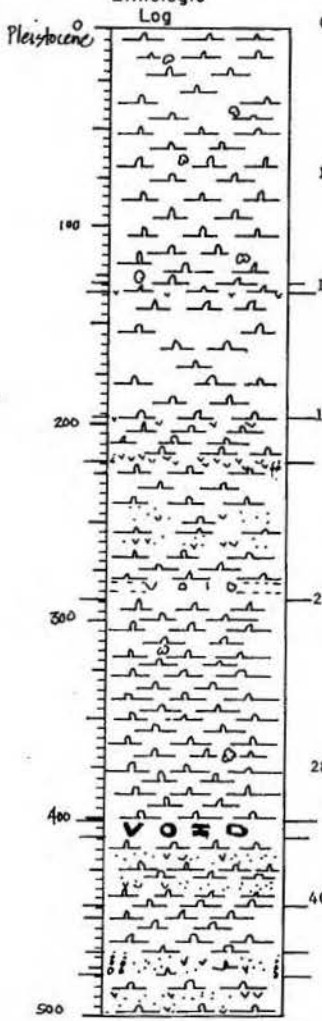
* probably volcanic in origin, glassy around edges

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 47 Core No. 34PC
Total Length 861 cm. Lat. 54° 12.0'S Long. 02° 03.6'E Depth 5047m.corr.
Core condition EXCELLENT. Date Described 18 JUNE 75 by J. Breda.
Physiographic location TRIPLE JUNCTION.... AFRICA-ANTARCTICA FRACTURE ZONE SOUTH-WEST OF BOUVET ISLAND.

Lithologic Log




### Detailed Description

0-129
SILIC OOZE GRADES TO DIATOM OOZE
5Y 5/3 olive
slight pale yellow and olive gray marbling throughout
very moist unconsolidated sponge-like silic mulch
entire unit disturbed due to implosion of liner during pullout
S irregular

129-133
DIATOM OOZE
5Y 4/2 olive gray
stiffer,a bit more consolidated sponge-like mulch
1/2 cm irregular lamination of ash at unit basal contact
S irregular

133-196
DIATOM OOZE GRADES TO SILIC OOZE
5Y 5/2 olive gray
numerous olive and dark gray concave downward laminations throughout unit 1-2 cm wide
moist somewhat consolidated sponge-like mulch
S concave downward

196-219
SLIGHTLY SILIC CLAY/ASH/DETRITUS
5Y 4/2 olive gray
a number of thin (2mm) black laminations at quite regular intervals throughout
moist semi-consolidated sponge-like mulch
5 mm ash lamination at upper unit contact plus a somewhat displaced and upset 3 cm graded ash bed at basal contact (a wedge of olive sediment from the unit below intrudes.)
S irregular

219-288
SILIC OOZE/DETRITUS WITH ASH
5Y 5/3 olive grades to 4/2 olive gray and then to 2.5/1 black
a few 1/2 cm-1 cm slightly inclined dark gray or black ash laminations in the zone 240 cm- 265 cm
moist semi-consolidated sponge-like mulch grades to silty (ashy) quite compact lutite then to pure ash
void, break in core 280-284 cm
very S, horizontal

288-401
DIATOM OOZE
5Y 5/3 olive
shadowy faint laminations and marbling of pale yellow and light olive gray hues
very stiff,remarkably compact lutite
S (with void)

401-409
VOID BREAK IN CORE

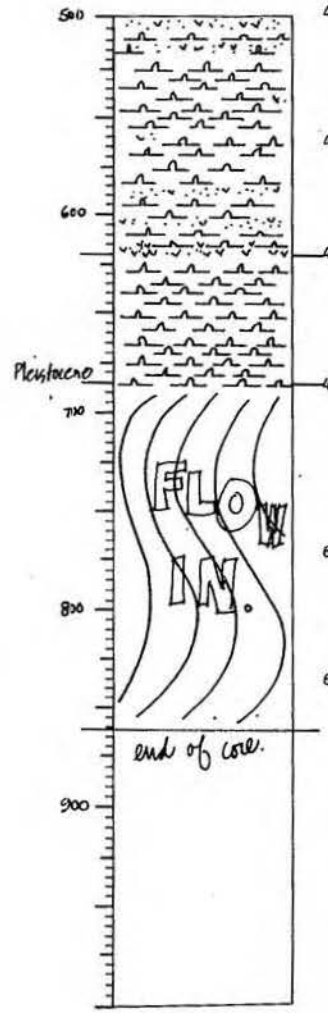


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 4 Sta. 47 Core No. 34PC

Lithologic Log




### Detailed Description

409-443
SILIC OOZE WITH LAMINATIONS OF DETRITUS WITH ASH
2.5GY 5/2
numerous thin and thick pale yellow and olive gray silic and ash laminations; distinct and horizontal
very stiff highly consolidated lutite
S horizontal

443-467
SILIC OOZE
5Y 6/3 pale olive grades to 5/2 olive gray
a few faint gray thin laminae scattered throughout
very stiff consolidated,nearly dry compact lutite
S

467-479
SILIC OOZE WITH ASH AND DETRITUS
5Y 3/1 very dark gray
very fine dry volcanic ash grades to a bit coarser pumice-like bed
graded bedding.
very S horizontal

479-620
DIATOM OOZE WITH LAMINATIONS OF ASH WITH DETRITUS
5Y 5/2 olive gray
two zones of gray and dark gray ash laminations 479-517 cm, 586-620 cm, very homogeneous in the zone 517-586 cm
extremely stiff compact lutite with a number of thin graded ash beds throughout; plus one very distinct dry coarse graded bed at unit contact
very S

620-685
DIATOM OOZE
5Y 6/2 olive gray
innumerable complete and incomplete pale yellow and white laminations throughout
remarkably stiff compact nearly dry, brittle lutite
S

685-861
FLOW IN
end of core

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

Ship: Chain  Core No. 34 PC

Expedition 115  Station No. 47

Leg No. 4  Total Core Length 861 cm

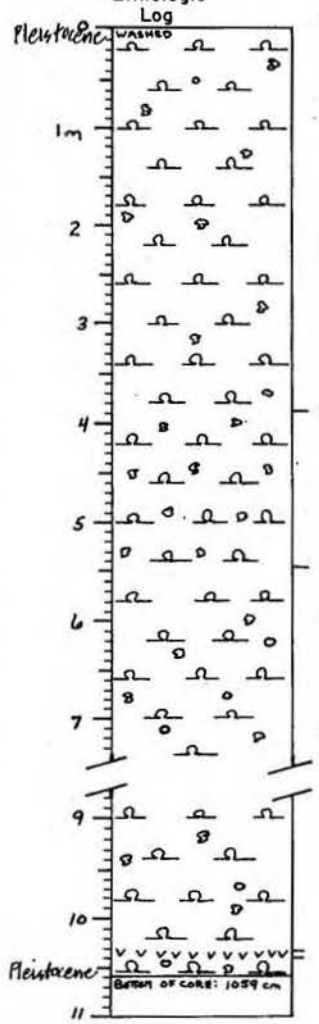
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 cm | silic ooze | 8 | | | | 30 | tr | | | | 2 | 56 | 1 | 1 | 2 |
| 100 cm | diatom ooze | 2 | | | | 8 | tr | | | | 1 | 86 | tr | 1 | 2 |
| 200 cm | silic ooze | 8 | | | 3 | 26 | | | | | 4 | 56 | tr | 1 | 2 |
| 215 cm | sl silic clay/ ash/det | 35 | | | 40 | 9 | | | | | 3 | 12 | tr | tr | 1 |
| 287 cm | silic ooze with ash/det | 30 | | | 20 | 8 | 3 | | | | 4 | 34 | tr | tr | 1 |
| 390 cm | diatom ooze | tr | | | tr | 15 | | | | | | 83 | tr | tr | 2 |
| 422 cm | det with ash | 65 | | | 20 | 4 | | | | | 10 | 1 | | | |
| 425 cm | silic ooze | 10 | | | 3 | 40 | | | | | 2 | 43 | tr | 1 | 1 |
| 475 cm | silic ooze with ash and det | 15 | | | 15 | 5 | 2 | | | | 3 | 55 | 1 | 2 | 2 |
| 525 cm | diatom ooze | | | | | | 5 | | | | 2 | 91 | tr | tr | 2 |
| 619 cm | ash with det | 18 | | | 70 | | 2 | | | | | 10 | | | |
| 650 cm | diatom ooze | | | | | | 5 | | | | 3 | 90 | | | 2 |
| 845 cm | diatom ooze | tr | | | | | 15 | | | | 4 | 80 | | | 1 |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHAIN Cruise 115 Leg 4 Sta. 51 Core No. 36 PC
Total Length 1059 cm. Lat. 52° 19.7'S Long. 06° 30.0'E Depth 3692 corrm
Core condition EXCELLENT Date Described 17 JUNE 75 by R McGIRR
Physiographic location African Plate NE of Triple Junction

Lithologic Log




Detailed Description

0-384
DIATOM OOZE
olive gray 5Y 4/2 and 6/2 light olive gray
intermottling of the 2 major colors and similar hues throughout
spongy slightly silty silic lutite
small black specks common through out, probably pumice, but do not appear in smear slides due to their relatively large size; occasional chunks of volcanic pumice up to 1 cm in diameter scattered throughout, pocket of broken pumice fragments at 49 cm, top 10 cm appear washed
G

384-546
DIATOM OOZE
2.5Y 7/2 light gray
extensive fuzzy mottling and marbling throughout, gray and olive gray
spongy silic mulch material
numerous black specks and rock fragments throughout, most probably pumice, to 1/2 cm in diameter
S irregular, mottled

546-1032
DIATOM OOZE
5Y 5/2 olive gray and 5/3 olive
marbling of major colors and similar hues throughout
spongy silic mulch, in places silty
slight variations in the color throughout; numerous black specks and small rock fragments, (probably pumice thoughout), ice rafted pebble 1 cm x 2 cm at 616 cm, groups of pumice chunks at 664, 705, 782 cm. large pumice fragment (2 cm x 3 cm) at 968 cm
S irregular

1032-1036
VOLCANIC GLASS
5Y 5/2 olive gray
sandy silt and scattered small pebbles
several small (pumice?) fragments
S irregular

1036-1059
DIATOM OOZE
5Y 6/3 pale olive
spongy silic lutite
pumice chunk (1 x 2 x 2 cm) at 1042 cm, scattered black specks throughout 1045-1059 cm, core cutter
S
end of core

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

Ship: Chain  Core No. 36 PC

Expedition 115  Station No. 51

Leg No. 4  Total Core Length 1059 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | silicoflag |
| 1 cm | diatom ooze | 7 | tr | | 2 | 5 | 1 | | | | 1 | 84 | tr | tr | tr |
| 100 cm | diatom ooze | 5 | tr | | 2 | 8 | | | | | 2 | 83 | tr | tr | tr |
| 200 cm | diatom ooze | 5 | 1 | | 4* | 5 | | | | | 1 | 84 | tr | tr | tr |
| 300 cm | diatom ooze | 10 | tr | | 3* | 5 | | | | | 2 | 80 | tr | | tr |
| 400 cm | diatom ooze | 5 | tr | | 4* | 10 | 3 | | | | 2 | 76 | | | tr |
| 500 cm | diatom ooze | 8 | tr | | 2 | 5 | tr | | | | 3 | 81 | | | 1 |
| 600 cm | diatom ooze | 5 | tr | | 4* | 5 | | | | | 1 | 85 | | tr | tr |
| 700 cm | diatom ooze | 10 | tr | | 2 | 5 | | | | | tr | 83 | tr | | tr |
| 800 cm | diatom ooze | 2 | tr | | 4* | 5 | | | | | tr | 89 | tr | | |
| 900 cm | diatom ooze | 3 | tr | | 2 | 5 | | | | | | 89 | tr | | 1 |
| 1000 cm | diatom ooze | 5 | tr | | 2 | 10 | | | | | | 83 | tr | | |
| 1034 cm | volcanic glass | 13 | | | 85 | 2 | | | | | | | | | |
| 1058 cm | diatom ooze | 5 | tr | | 1 | 5 | | | | | | 89 | | | |

* some altered



VISUAL CORE DESCRIPTION

Page 1 of 1

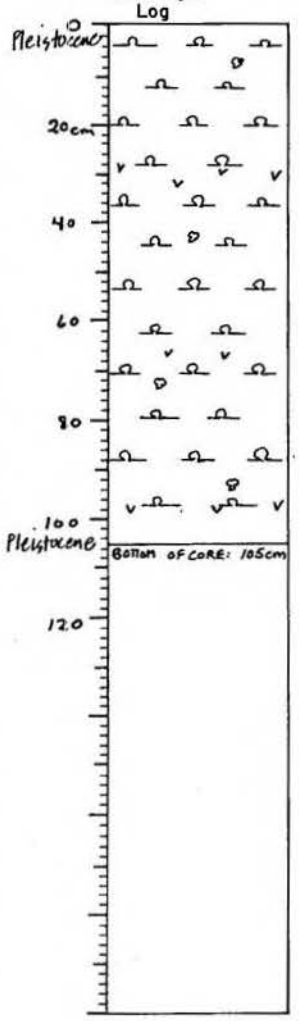
Ship CHN Cruise 115 Leg 4 Sta. 51 Core No. 36 PG

Total Length 105 cm. Lat. 52° 19.7'S Long 06° 30.0'E Depth 3692 corr m

Core condition EXCELLENT Date Described 17 JUNE 75 by R McGIRR

Physiographic location African Plate NE of Triple Junction

Lithologic Log




Detailed Description

0-105
DIATOM OOZE AND CHUNKS OF PUMICE
5Y 5/3 olive
occasional swirls and mottles, olive gray
smooth, soft silic mulch
small black specks scattered throughout; three pockets of vuggy "pumice like chunks" 26-31, 66, 97 cm, several black rock fragments at 97 cm
S
end of core

# 300

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

Ship: Chain  Core No. 36 PG

Expedition 115  Station No. 51

Leg No. 4  Total Core Length 10 5 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | diatom ooze | 6 | tr | | 3 | 7 | tr | | | | 1 | 83 | tr | | tr |
| 28 cm | chunk of volcanic glass | 8 | 1 | | 87 | 4 | | | | | | | | | |
| 104 cm | diatom ooze | 5 | tr | | 2 | 7 | tr | | | | 2 | 84 | tr | | tr |

# 301

VISUAL CORE DESCRIPTION



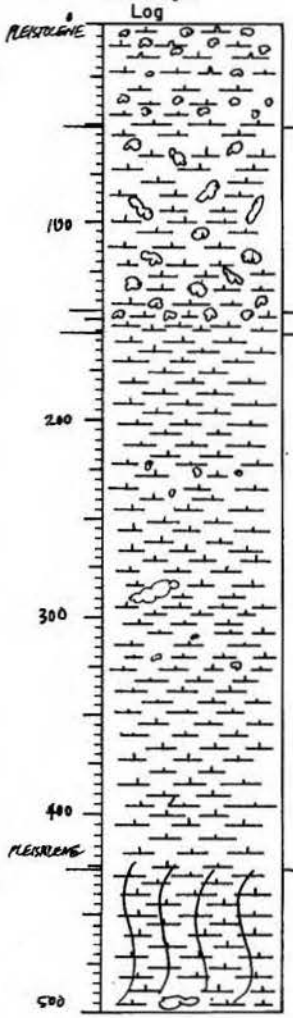
Ship CHAIN Cruise 115 Leg 5 Sta. 50 Core No. 37PC

Total Length 594 cm. Lat. 33°57.1'S Long. 13°34.0'E Depth 4440 m.corr.

Core condition EXCELLENT. Date Described 15 July 75 by J. Bloch

Physiographic location NORTHEAST CAPE BASIN

Lithologic Log




Detailed Description

0-51
CALC SILIC OOZE GRADES TO CALC OOZE
10YR 6/4 light yellowish brown
extensive brown and grayish brown mottling and marbling in the zones 0-15, 29-48 cm, common pale brown marbling 15-28 cm
moist silty lutite with faint abund. forams
G

51-145
CALC OOZE
10YR 6/3 pale brown
extensive very pale brown burrowing throughout, thin well preserved burrows often span entire width of liner at various inclinations
stiffer, but still moist, slightly silty lutite with a few forams
G mottled

145-156
NANNO OOZE
10YR 7/2 light gray
extensive intermottling with unit above at upper contact
smooth compact lutite
S mottled

156-327
NANNO OOZE
10YR 8/1 white
numerous large and small light gray zones and burrows, curiously inclined in opposite directions throughout most dominant gray zones 164-173, 177-183, 215-217, 226-252 and 262-267 cm, the largest of the light gray zones have tiny spherical mottles scattered within
very firm plastic like lutite
S inclined 2°

327-356
CALC OOZE
5Y 7/2 light gray
homogeneous throughout
very stiff compact brittle lutite
S irregular

356-422
CALC OOZE
10YR 8/1 white
two large irregular 5Y 7/2 light gray inclusions (burrows?) 490-505 cm
very stiff compact brittle lutite
S irregular (cracked)

422-594
FLOW IN
end of core

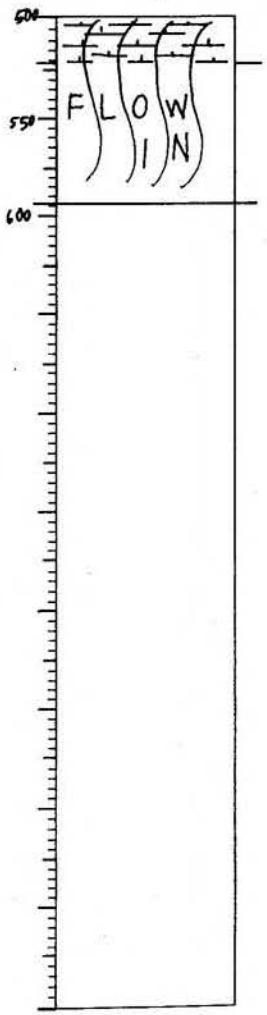
302

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 58 Core No. 37PC

Lithologic Log




Detailed Description

303

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

Ship: Chain Core No. 37 PC

Expedition 115 Station No. 58

Leg No. 5 Total Core Length 594 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 flag |
| 1 cm | calc silic ooze | 8 | tr | | tr | 30 | 8 | 40 | | 2 | 6 | 2 | tr | 3 | 1 |
| 55 cm | calc ooze | 10 | | | tr | 40 | 1 | 35 | | tr | 12 | tr | | 2 | tr |
| 152 cm | nanno ooze | tr | | | | 16 | 2 | 75 | | 4 | 3 | | | | |
| 200 cm | nanno ooze | 1 | | | | 15 | 5 | 75 | | 2 | 2 | | | | |
| 240 cm | nanno ooze | 1 | | | | 16 | 5 | 70 | | 5 | 3 | | | | |
| 300 cm | nanno ooze | tr | | | | 15 | 5 | 75 | | 4 | 1 | | | | |
| 350 cm | nanno ooze | 1 | | | | 18 | 2 | 70 | | 5 | 4 | | | | |
| 385 cm | calc ooze | 1 | | | | 38 | 5 | 50 | | 2 | 4 | | | | |
| 420 cm | calc ooze | 2 | | | | 31 | 4 | 55 | | 2 | 6 | | | | |
| 575 cm | calc ooze | 2 | | | | 22 | 8 | 60 | | 3 | 5 | | | | |

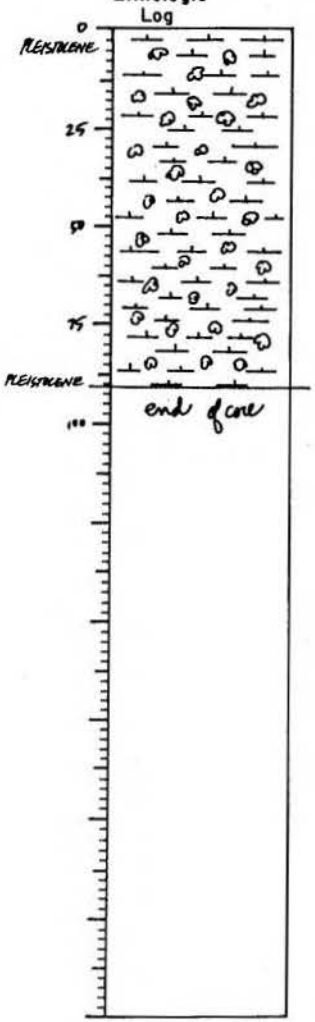
## 304

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 58 Core No. 37PG
Total Length 92 cm. Lat. 33° 57.1'S Long. 13° 34.0'E Depth 444 fm-corr.
Core condition EXCELLENT Date Described 15 JULY 75 by J. Brooks
Physiographic location NORTH EAST CAPE BASIN.

Lithologic Log




Detailed Description

0-92
CALC OOZE
10YR 6/3 pale brown grades to 5/3 brown and back to 6/3 brown
extensive very pale brown mottling and burrowing throughout
moist silty lutite with a few scattered forams
end of core

## 305

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

Ship: Chain Core No. 37 PG
Expedition 115 Station No. 58
Leg No. 5 Total Core Length 92 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 flag |
| 1 cm | calc ooze | 10 | | | | 43 | 8 | 30 | | tr | 6 | tr | | 2 | 1 |
| 91 cm | calc ooze | 8 | tr | | | 36 | 4 | 45 | | tr | 5 | tr | | 2 | tr |

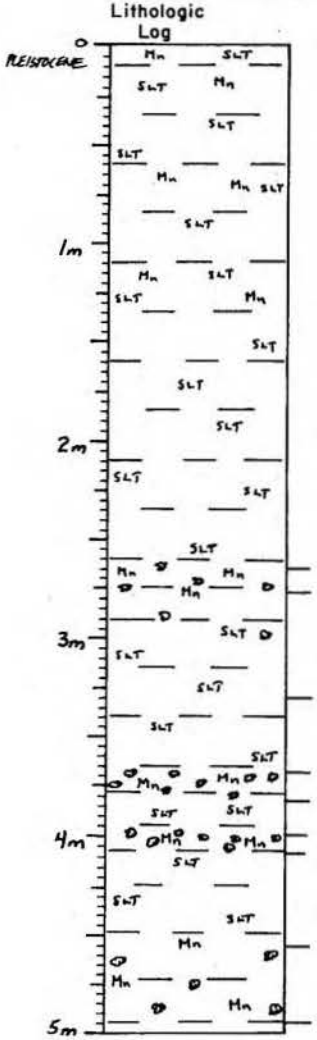
306

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 60 Core No. 38 PC
Total Length 878 cm. Lat. 34° 04.74'S Long. 96° 55.00'E Depth 5260 corr m
Core condition EXCELLENT Date Described 16 JULY 75 by R McGIBR
Physiographic location Mid-Cape Basin

Lithologic Log




Detailed Description

0-265
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
moist, firm lutite
many almost horizontal, black fuzzy laminations and patches occurring in sections within unit, probably manganese 0-23 cm, 58-73 cm, 112-220 cm
S irregular

265-277
UNFOSS CLAY/MN MICRONODULES
5Y 2.5/1 black
mottling and marbling scattered at top to extensive at bottom, light yellowish brown
moist firm lutite
S irregular

277-330
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
several small black mottles and elongated burrows 277-295 cm
moist firm lutite
S inclined 60°

330-368
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
three very small black patches of silt sized grains
moist firm lutite
S irregular

368-382
UNFOSS CLAY/MN MICRONODULES
5Y 2.5/1 black
extensive mottling throughout, light yellowish brown
moist firm lutite
S mottled

382-398
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
1 very small, black mottle of silt sized grains 386 cm
moist firm lutite
very homogeneous
S slightly convex up

398-408
UNFOSS CLAY/MN MICRONODULES
5Y 2.5/1 black
extensive mottling 398-403, common 403-408, light yellowish brown
moist firm lutite
S slightly convex up

408-454
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
moist firm lutite
very homogeneous
G

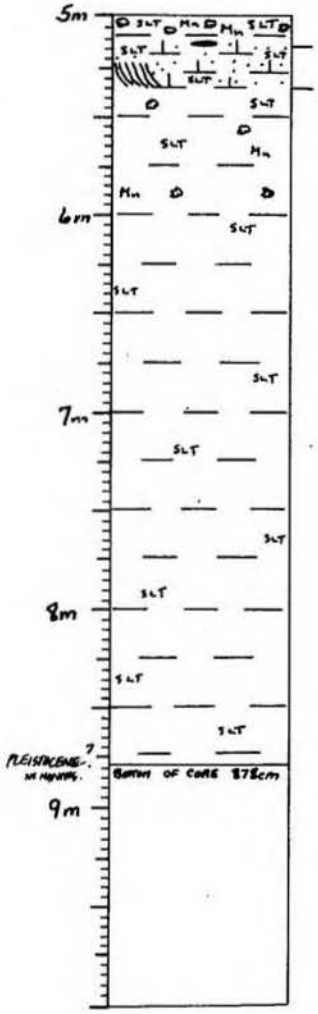
307

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 60 Core No. 38 PC

Lithologic Log




Detailed Description

454-493
UNFOSS CLAY/MN MICRONODULES
5Y 2.5/1 black
common mottling throughout, light yellowish brown
moist firm lutite
lighter and darker hues throughout
S irregular

493-514
UNFOSS CLAY WITH DETRITUS AND UNFOSS CLAY/MN MICRONODULES
10YR 6/4 light yellowish brown, 5Y 2.5/1 black
severe intermottling and marbling of the two major colors
moist firm lutite
S textural, convex up

514-535
CALC OOZE WITH DETRITUS
10YR 6/4 light yellowish brown and 5Y 2.5/1 black
fine sand and silt
1 cm chunk of black silt and lutite grains cemented together
518 cm alternating microlaminations of the 2 major colors, laminations vary from very convex up in shape to nearly flat and horizontal; cross bedding
S textural, horizontal

535-878
UNFOSS CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
fuzzy black patch 547-589 cm, 1 black lamination at 608 cm
moist firm lutite
unit homogeneous except for 2 areas of black mottling, core cutter 863-878 cm
end of core

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

Ship: Chain  Core No. 38 PC

Expedition 115  Station No. 60

Leg No. 5  Total Core Length 878 cm

| Pyrite | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains * | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 cm | unfoss clay with det | 20 | 3 | | 2 | 70 | | | | | 1 | | | |
| tr | 100 cm | unfoss clay with det | 25 | 2 | | 4 | 68 | | | | | 1 | | | |
| tr | 190 cm | unfoss clay | 10 | 2 | | 4 | 83 | | | | | 1 | | | |
| | 267 cm | unfoss clay /Mn micronod. | 15 | 60 | | 2 | 23 | | | | | tr | | | |
| 2 | 360 cm | unfoss clay with det | 20 | 2 | | tr | 76 | | tr | | | tr | | | |
| 1 | 460 cm | unfoss clay with det | 20 | 4 | | 2 | 73 | | | | | tr | | | |
| tr | 525 cm | calc ooze with det | 20 | 5 | | tr | 16 | 15 | 4 | | 1 | 40 | | | |
| | 600 cm | unfoss clay with det | 20 | 1 | | 2 | 77 | | tr | | | tr | | | |
| | 700 cm | unfoss clay with det | 20 | 1 | | 1 | 78 | | tr | | | tr | | | |
| | 800 cm | unfoss clay with det | 20 | 1 | | 2 | 77 | | tr | | | | | | |
| tr | 877 cm | unfoss clay with det | 20 | 1 | | tr | 79 | | tr | | | | | | |

*silt-sized



VISUAL CORE DESCRIPTION

Page 1 of 1

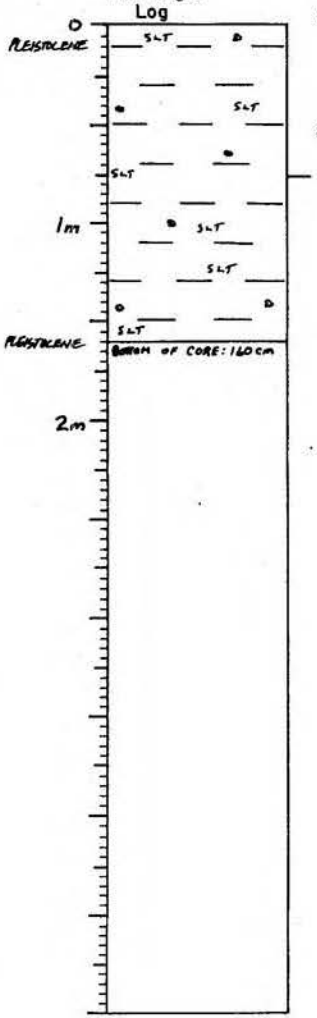
Ship CHAIN Cruise 115 Leg 5 Sta. 60 Core No. 38 PG

Total Length 160 cm. Lat. 34° 04.74'S Long. 06° 55.0'E Depth 5260 corr m

Core condition EXCELLENT Date Described 16 JULY 75 by R McGIRR

Physiographic location Mid-Cape Basin

Lithologic Log




Detailed Description

0-85
UNFOSS CLAY WITH DETRITUS
10YR 6/3 pale brown
fuzzy black mottles and nearly horizontal streaks throughout
moist firm lutite
S "graben-like" shape

85-160
UNFOSS CLAY WITH DETRITUS
10YR 6/3 pale brown
fuzzy black mottles and nearly horizontal streaks throughout
moist firm lutite
154-160 cm pilot core cutter
NOTE; Due to the unusual contact of the two units and a repetitive sequence of similar lithologies this core is suspected to be an example of multiple penetration(pilot core rebound) recovery; 1st. 0-85 cm, 2nd 85-154 cm
end of core

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

Ship: Chain  Core No. 38 PG

Expedition 115  Station No. 60

Leg No. 5  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 |
| 1 cm | unfoss clay with det | 20 | 1 | | 5 | 72 | | 2 | | | tr | | | |
| 85 cm | unfoss clay with det | 25 | 2 | | 3 | 69 | | 1 | | | tr | | | |
| 153 cm | unfoss clay with det | 25 | 7 | | 3 | 65 | | tr | | | tr | | | |

* silt-sized



VISUAL CORE DESCRIPTION

Page 1 of 1

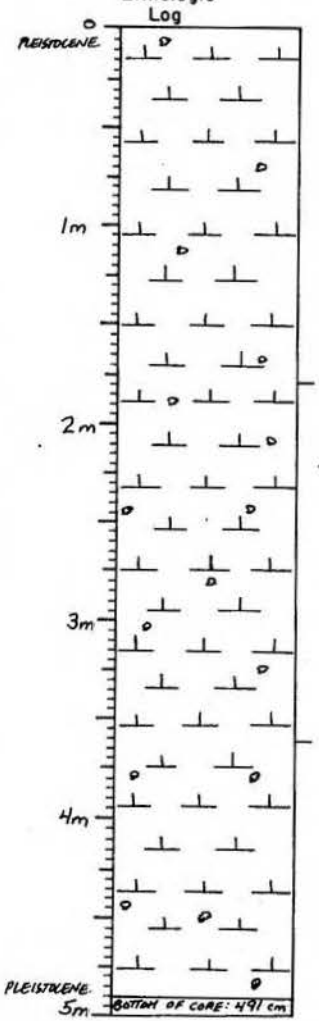
Ship CHAIN Cruise 115 Leg 5 Sta. 69 Core No. 39 PC

Total Length 491 cm. Lat. 32° 16.43'S Long. 5° 04.55'W Depth 4018 corr m

Core condition EXCELLENT Date Described 15 JULY 75 by R McGIRR

Physiographic location Southern Angola Basin

Lithologic Log




Detailed Description

0-178
CALC OOZE
10YR 7/3 very pale brown
occasional mottles throughout, white halo usually around very pale brown center, mottled at bottom contact
moist firm silty lutite
slight variations in hue throughout, somewhat darker 170-178
S mottled

178-361
CALC OOZE
10YR 8/2 white grades to 7/2 light gray
scattered mottles throughout, white, usually haloed around gray center, mottled at contact
slight variations in color throughout
S mottled

361-491
CALC OOZE
10YR 8/1 white grades to 7/3 very pale brown
large white mottles scattered throughout, thin black streaks throughout
moist very firm slightly silty lutite
478-491 cm, core cutter
end of core

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

Ship: Chain  Core No. 39 PC

Expedition 115  Station No. 69

Leg No. 5  Total Core Length 491 cm

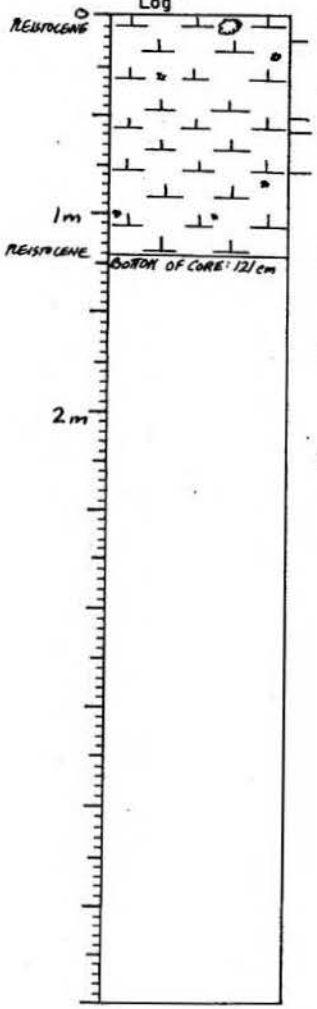
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 5 | | | tr | 20 | 25 | 40 | | | 10 | tr | | |
| 100 cm | calc ooze | 5 | 2 | | tr | 53 | 15 | 15 | tr | tr | 10 | | | |
| 200 cm | calc ooze | 3 | tr | | 1 | 16 | 10 | 60 | | tr | 10 | | | |
| 300 cm | calc ooze | 3 | 1 | | tr | 10 | 5 | 71 | | tr | 10 | | | |
| 400 cm | calc ooze | 5 | 1 | | 2 | 15 | 20 | 52 | | | 5 | | | |
| 490 cm | calc ooze | 5 | tr | | 10 | 15 | 2 | 63 | | tr | 5 | | | |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 69 Core No. 39 PG
Total Length 121 cm. Lat. 32° 16.43'S Long. 5° 04.55'W Depth 4018 corr m
Core condition EXCELLENT Date Described 16 JULY 75 by R McGIRR
Physiographic location Southern Angola Basin

Lithologic Log




Detailed Description

0-11
CALC OOZE
10YR 8/1 white
large mottle in center of unit, 3 x 3 cm, light gray
firm silty lutite
void 0-2 cm
S irregular

11-51
CALC OOZE
10YR 7/2 light gray
several small white mottles scattered throughout
firm silty lutite
S concave up

51-58
CALC OOZE
10YR 6/3 pale brown
firm silty lutite
S irregular

58-79
CALC OOZE
10YR 7/1 gray grades to 7/3 very pale brown
firm silty lutite
several small white and gray patches 58-64 cm
S irregular

79-121
CALC OOZE
10YR 6/3 pale brown
scattered white mottles throughout
firm silty lutite
end of core

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

Ship: Chain  Core No. 39 PG

Expedition 115  Station No. 69

Leg No. 5  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 |
| 3 cm | calc ooze | 3 | | | 1 | 16 | 60 | 10 | | tr | 10 | | | |
| 30 cm | calc ooze | 2 | 3 | | tr | 40 | 25 | 20 | | tr | 10 | | | |
| 55 cm | calc ooze | 3 | 2 | | 1 | 34 | 20 | 30 | | tr | 10 | | | |
| 70 cm | calc ooze | 4 | 3 | | 1 | 50 | 15 | 22 | | | 5 | | | |
| 120 cm | calc ooze | 5 | 3 | | 1 | 40 | 20 | 21 | | tr | 10 | | | tr |



VISUAL CORE DESCRIPTION  Page 1 of 1

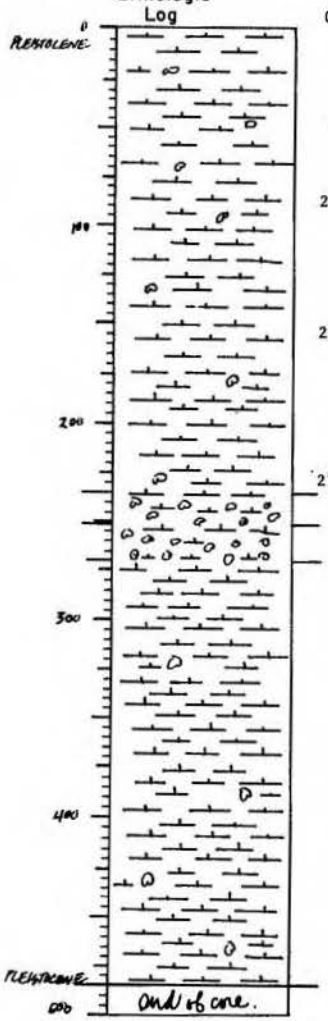
Ship CHAIN Cruise 115 Leg 5 Sta. 71 Core No. 40PC

Total Length 485 cm. Lat. 32° 08.67'S Long. 09° 07.93'W Depth 4080 m. corr.

Core condition EXCELLENT. Date Described 14 JULY 75 by J. Bada

Physiographic location SOUTHERN ANGOLA BASIN.

Lithologic Log




Detailed Description

0-235
CALC OOZE GRADES TO NANNO OOZE
10YR 7/3 very pale brown gently grades repeatedly to 7/4 very pale brown
slight intermottling of the two colors above in gradational zones plus scattered white mottling throughout
firm slightly silty lutite with scattered forams; becoming more plastic-like at base of unit
scattered streaked pockets of black flecks 50-180 cm
G

235-251
CALC OOZE
10YR 6/3 pale brown
extensive light gray and white mottling throughout
firm plastic-like lutite with a few forams
common black flecks and streaked black clusters
G

251-270
NANNO OOZE
10YR 7/3 very pale brown
extensive pale brown and light gray mottling and marbling throughout
firm, compact, plastic-like lutite
black flecks abundant in light gray mottles
G

270-485
NANNO OOZE
10YR 8/1 white
a few shadowy gray mottles found scattered throughout
firm, very plastic-like lutite with very few forams
end of core

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

Ship: Chain  Core No. 40 PC

Expedition 115  Station No. 71

Leg No. 5  Total Core Length 485 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 2 | tr | | | 35 | 15 | 45 | | tr | 3 | | | |
| 100 cm | nanno ooze | tr | tr | | | 19 | 9 | 70 | | | 2 | | | |
| 200 cm | calc ooze | tr | 1 | | | 28 | 4 | 65 | | tr | 2 | | | |
| 245 cm | calc ooze | 4 | 3 | | | 36 | tr | 50 | | 2 | 5 | | | |
| 300 cm | nanno ooze | 2 | 1 | | | 12 | 6 | 75 | | 2 | 2 | | | |
| 400 cm | nanno ooze | 2 | 1 | | | 13 | 5 | 75 | | 1 | 3 | | | |
| 484 cm | nanno ooze | 2 | 1 | | | 15 | 6 | 70 | | 1 | 5 | | | |



VISUAL CORE DESCRIPTION



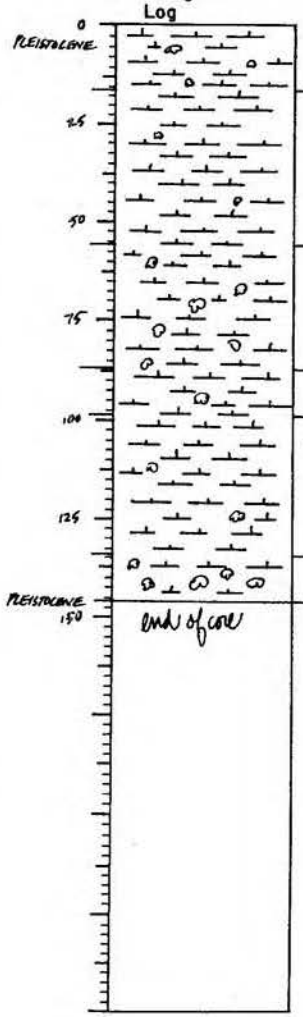
Ship CHAIN Cruise 115 Leg 5 Sta. 71 Core No. 40PG

Total Length 146 cm. Lat. 32° 08.67'S Long. 09° 07.93'W Depth 4080 m. corr.

Core condition EXCELLENT. Date Described 14 JUL 75 by J. Broda

Physiographic location SOUTHERN ANGOLA BASIN.

Lithologic Log




Detailed Description

NOTE;
Due to a repetitive sequence of similar lithologies this core is suspected to be an example of a multiple penetration (pilot core rebound) recovery; 1st. 0-87, 2nd 87-146 cm

0-16
CALC OOZE
10YR 7/3 very pale brown
slight white mottling found throughout
firm silty lutite with very abund. forams
G

16-56
CALC OOZE
10YR 6/4 light yellowish brown
occasional slight white mottling
firm slightly silty lutite with scattered forams
thin (1 cm) band of foram sand at unit basal contact
S textural

56-87
CALC OOZE
10YR 8/2 white grades to 7/3 very pale brown
common white mottling and black flecks
very firm plastic like lutite with very few forams
S

87-98
CALC OOZE
10YR 7/3 very pale brown
very slight white mottling found throughout
firm silty lutite with very abund. forams
G

98-134
CALC OOZE
10YR 6/4 light yellowish brown
occasional faint slight white mottling
firm slightly silty lutite with scattered forams
thin zone of very abund. forams at unit basal contact
S textural

134-146
CALC OOZE
10YR 8/2 white grades to 7/3 very pale brown
common white mottling found throughout
very firm plastic like lutite
end of core

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

Ship: Chain  Core No. 40 PG

Expedition 115  Station No. 71

Leg No. 5  Total Core Length 146 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | tr | | | 28 | 12 | 55 | | tr | 4 | | | |
| 60 cm | calc ooze | 1 | tr | | | 27 | 4 | 65 | | tr | 3 | | | |
| 92 cm | calc ooze | 1 | tr | | | 28 | 11 | 55 | | tr | 5 | | | |
| 145 cm | calc ooze | 1 | tr | | | 26 | 3 | 68 | | tr | 2 | | | |

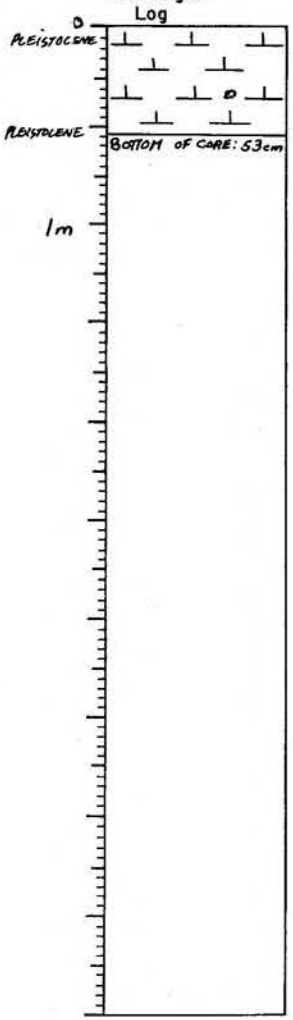


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 77 Core No. 41 GC
Total Length 53 cm. Lat. 31° 49.9' S Long. 17° 14.5' W Depth 3700 corr m
Core condition EXCELLENT Date Described 15 JULY 75 by R McGIRR
Physiographic location West Flank, Mid-Atlantic Ridge

Lithologic Log




Detailed Description

0-53
CALC OOZE
10YR 6/3 pale brown
three medium white mottles, 19, 37, 42 cm
moist firm silty lutite
slight darkening in color, 13-22 cm
end of core

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

Ship: Chain  Core No. 41 GC

Expedition 115  Station No. 77

Leg No. 5  Total Core Length 53 cm

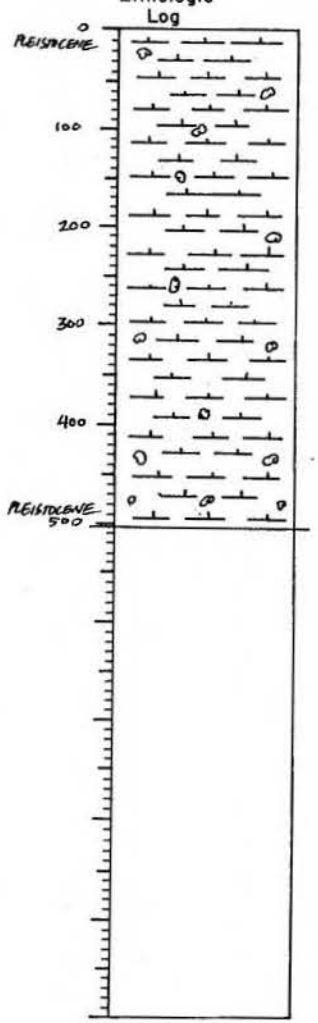
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 5 | 3 | | 2 | 30 | 20 | 35 | | | 5 | | | |
| 52 cm | calc ooze | 3 | 3 | | tr | 44 | 10 | 30 | | | 5 | | | |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 80 Core No. 42PC
Total Length 502 cm. Lat. 31° 46.58'S Long. 19° 05.03'W Depth 3815 m-corr.
Core condition EXCELLENT Date Described 14 JULY 75 by J. Broda
Physiographic location WEST FLANK - MID ATLANTIC RIDGE.

Lithologic Log




Detailed Description

0-502
CALC OOZE GRADES TO NANNO OOZE
10YR 7/4 very pale brown grades to 8/3 very pale brown
scattered but distinct, well formed white mottles throughout, a few elongated in the zone 60-200 cm
moist slightly silty lutite with scattered forams grades to stiffer plastic like lutite around 215 cm; texture remains consistent from there to end of core
Note; section 4, (0-57 cm) somewhat disturbed in extrusion from core barrel, not oriented for paleomagnetics
end of core

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

Ship: Chain  Core No. 42 PC

Expedition 115  Station No. 80

Leg No. 5  Total Core Length 502 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 2 | | | | 11 | 22 | 60 | tr | | 5 | | | |
| 100 cm | calc ooze | 1 | tr | | | 18 | 15 | 60 | tr | | 6 | | | |
| 200 cm | nanno ooze | tr | | | | 5 | 18 | 75 | | | 2 | | | |
| 300 cm | nanno ooze | 1 | | | | 5 | 7 | 85 | | | 2 | | | |
| 400 cm | nanno ooze | 1 | | | | 2 | 5 | 90 | | | 2 | | | |
| 501 cm | nanno ooze | tr | | | | 3 | 5 | 90 | | | 2 | | | |

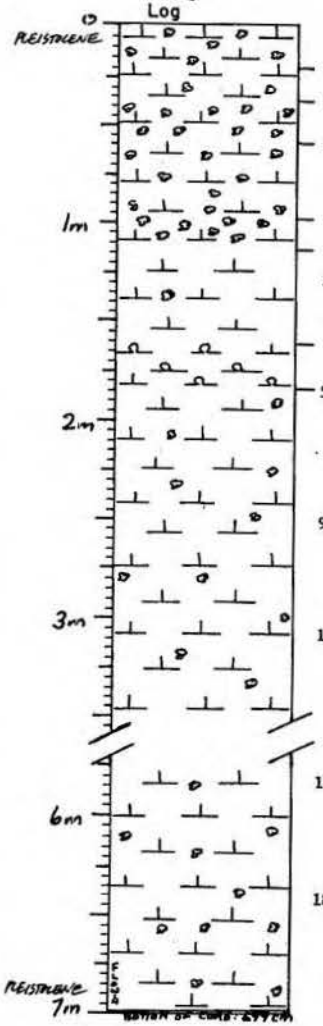


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 84 Core No. 43 PC
Total Length 699 cm. Lat. 31° 42.55'S Long. 20° 52.42'W Depth 4141 corr m
Core condition EXCELLENT Date Described 14 JULY 75 by R McGIRR
Physiographic location West Flank, Mid-Atlantic Ridge

Lithologic Log




Detailed Description

0-19
CALC OOZE
10YR 6/4 light yellowish brown
common mottling throughout, pale brown
moist silty lutite
4 irregular, nearly horizontal 1 cm thick laminations, brown
G mottled

19-37
CALC OOZE
10 YR 7/3 and 8/3 very pale browns
scattered mottling throughout, very pale brown, mottled at upper contact, light yellowish brown
moist silty lutite
S mottled

37-59
CALC OOZE
10YR 7/3 very pale brown and 6/4 light yellowish brown
common mottling throughout, yellowish brown
moist silty lutite
S mottled

59-97
CALC OOZE
10 YR 7/3 and 8/3 very pale browns
common intermottling and marbling of the 2 major colors
1 patch of white at 86 cm
moist silty lutite
G

97-113
CALC OOZE
10YR 6/3 pale brown
common mottling throughout, very pale brown and brown
moist silty lutite
G mottled

113-161
CALC OOZE
10YR 7/3 very pale brown
2 lutite mottles, pale brown one with a white halo, at 136 cm
firm rough textured lutite
3 cm wide lutite lamination at 117-120 cm, thin wavy white lamination, 148 cm
S mottled

161-184
SILIC CALC OOZE
10YR 8/2 white
semi siliceous mulch
thin siliceous laminations throughout
S irregular

184-699
CALC OOZE
10YR 5/3 brown alternating 7/4 very pale brown
few to common mottles throughout of the two major colors
hard silty lutite

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 84 Core No. 43 PC

Lithologic Log

Detailed Description

alternating light and dark areas throughout; vertical streaks, 675-699 cm, probable flow in end of core



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

Ship: Chain

Core No. 43 PC

Expedition 115

Station No. 84

Leg No. 5

Total Core Length 699 cm

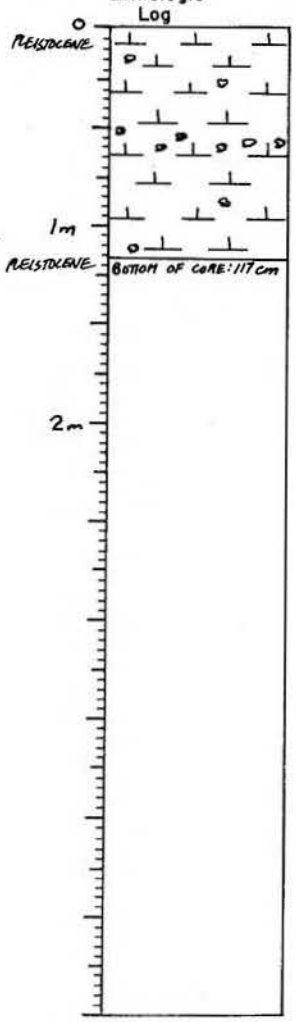
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micromodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 5 | 3 | | 2 | 40 | 10 | 30 | | tr | 10 | tr | | |
| 50 cm | calc ooze | 3 | 3 | | 2 | 29 | 3 | 50 | | tr | 10 | | | |
| 80 cm | calc ooze | 3 | 3 | | 1 | 30 | 3 | 55 | | tr | 5 | | | |
| 140 cm | calc ooze | 3 | 2 | | 3 | 22 | 10 | 50 | tr | tr | 10 | | | |
| 175 cm | silic calc ooze | 2 | tr | | | 20 | | 13 | | tr | 5 | 60 | | |
| 200 cm | calc ooze | 3 | 4 | | tr | 50 | 5 | 28 | | tr | 10 | | | |
| 300 cm | calc ooze | 5 | 3 | | tr | 60 | 3 | 24 | | tr | 5 | | | |
| 400 cm | calc ooze | 3 | 3 | | 2 | 47 | 10 | 30 | | tr | 5 | | | |
| 500 cm | calc ooze | 5 | 1 | | 1 | 60 | 2 | 21 | | tr | 10 | | | |
| 600 cm | calc ooze | 10 | tr | | tr | 43 | 2 | 40 | | tr | 5 | | | |
| 692 cm | calc ooze | 10 | 2 | | tr | 45 | 2 | 31 | | tr | 10 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 84 Core No. 43 PG
Total Length 117 cm. Lat. 31° 43.55'S Long. 20° 52.42'W Depth 4141 corr m
Core condition EXCELLENT Date Described 14 JULY 75 by R McGIRR
Physiographic location West Flank, Mid-Atlantic Ridge

Lithologic Log




### Detailed Description

0-117
CALC OOZE
10YR 6/3 pale brown
extensive brown mottling 50-60 cm, few throughout rest of core
moist silty lutite
several patches of white lutite, 25 cm, 33 cm, 46 cm, 67 and 107 cm; core cutter 112-117 cm
end of core



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

Ship: Chain Core No. 43 PG
Expedition 115 Station No. 84
Leg No. 5 Total Core Length 117 cm

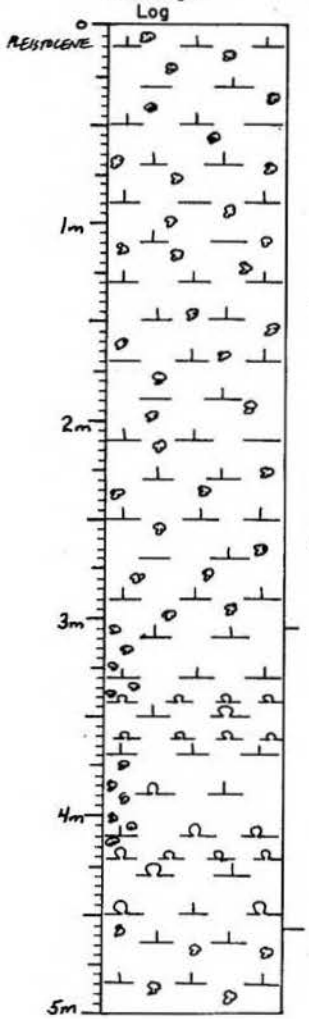
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 5 | 3 | | tr | 22 | 15 | 50 | | tr | 5 | | | |
| 111 cm | calc ooze | 5 | 3 | | 1 | 40 | 15 | 26 | | tr | 10 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 85 Core No. 44 PC
Total Length 880 cm. Lat. 31° 36.49'S Long. 22° 26.73'W Depth 4411 corrm
Core condition EXCELLENT Date Described 18 JULY 75 by R McGIRR
Physiographic location Extreme Southern Brazilian Basin

Lithologic Log




### Detailed Description

0-305
CALC OOZE AND CALC CLAY
10YR 6/4 light yellowish brown and 4/4 dark yellowish brown
extensive intermottling of the two major colors throughout
firm silty lutite
alternating light and dark area within unit, with extensive mottling of the other color in each;

| light | dark |
|---|---|
| 0-5 cm | 5-24 cm |
| 24-76 cm | 76-103 cm |
| 103-134 cm | 134-152 cm |
| 152-159 cm | 159-184 cm |
| 184-202 cm | 202-232 cm |
| 232-273 cm | 273-305 cm |

mottled bottom contact

305-456
NANNO OOZE GRADES TO SILIC CALC OOZE, WITH LAMINATIONS of DIATOM OOZE
10YR 7/3 very pale brown
large, connected mottles, white, along 1 side from 305-340 cm, 370-416 cm
firm, hard moist silty lutite
thin (1 cm thick) convex up laminations of silic mulch 340-370 cm, and 419-424 cm, the bottom most several laminations are very black, while most are light gray in color; several black, lutite laminations convex up 446-456 cm
S convex up

456-880
CALC OOZE
10YR 6/4 light yellowish brown and 4/4 dark yellowish brown
common intermottling of the 2 major colors throughout, large (4x4 cm) white, irregular mottle at 578 cm
alternating light and dark areas throughout entire length of unit

| light | dark |
|---|---|
| 492-532 | 532-555 |
| 555-591 | 591-658 |
| 658-698 | 698-749 |
| 749-773 | 773-787 |
| 787-831 | 831-850 |
| 850-877 | 877-880 |

864-880 cm core cutter
end of core

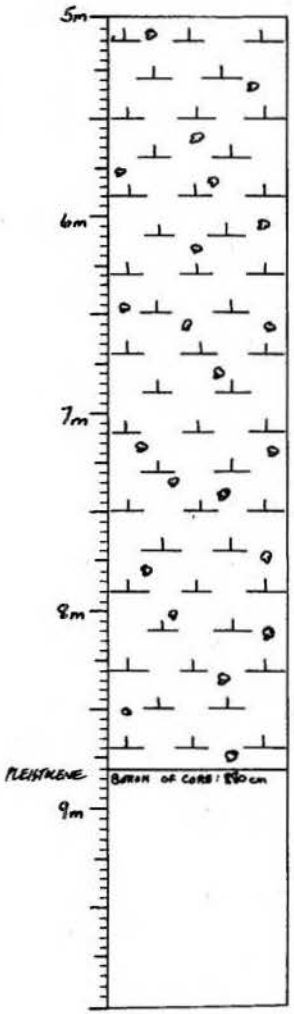


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 85 Core No. 44PC

Lithologic Log




Detailed Description

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

Ship: Chain  Core No. 44 PC

Expedition 115  Station No. 85

Leg No. 5  Total Core Length 880 cm

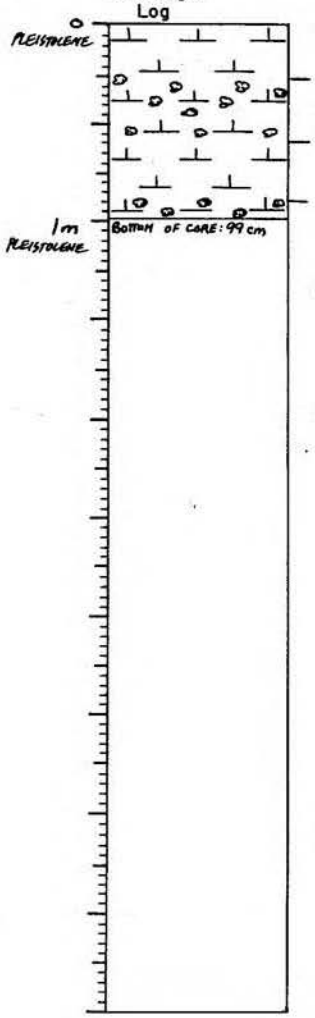
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| light 1 cm | calc ooze | 5 | 4 | | 3 | 50 | 8 | 25 | | tr | 5 | tr | | |
| dark 90 cm | calc clay | 5 | 8 | tr | 2 | 68 | tr | 10 | | 2 | 5 | tr | | |
| light 190 cm | calc ooze | 3 | 3 | | 2 | 16 | tr | 70 | | 1 | 5 | tr | | |
| dark 290 cm | calc ooze | 3 | 7 | | 2 | 30 | tr | 48 | | 1 | 5 | 4 | | |
| 320 cm | nanno ooze | 3 | tr | | 1 | 10 | 4 | 77 | | tr | 5 | tr | | |
| lam. 352 cm | diatom ooze | 2 | 1 | tr | 2 | 5 | tr | 10 | | 1 | 4 | 75 | tr | |
| 453 cm | silic calc ooze | 2 | 1 | | 1 | 10 | | 9 | | 2 | 5 | 70 | | |
| light 520 cm | calc ooze | 3 | 5 | | 1 | 20 | 5 | 60 | | 1 | 5 | | | tr |
| dark 640 cm | calc ooze | 5 | 5 | | 2 | 49 | | 30 | | 1 | 8 | tr | | |
| light 760 cm | calc ooze | 3 | 2 | | 2 | 16 | 2 | 70 | | tr | 5 | tr | | |
| dark 879 cm | calc ooze | 5 | 7 | | 2 | 40 | 1 | 39 | | 1 | 5 | | | |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 85 Core No. 44 PG
Total Length 99 cm. Lat. 31° 36.49'S Long. 23°26.73'W Depth 4411 corr m
Core condition EXCELLENT Date Described 11 JULY 75 by R McGIRR
Physiographic location Extreme Southern Brazilian Basin

Lithologic Log




Detailed Description

0-26
CALC OOZE
10YR 6/4 light yellowish brown
faint mottling throughout, pale brown
moist silty lutite
mottled bottom contact

26-58
CALC OOZE
10YR 5/4 yellowish brown
extensive mottling 26-42 cm, and 50-55 cm, common 42-50 cm dark brown
moist silty lutite
white, horizontal streak 3 cm long, at 54 cm
mottled bottom contact

58-88
CALC OOZE
10YR 6/4 light yellowish brown
faint mottling throughout, yellowish brown, 1 cm wide mottle at 76 cm with pale brown halo
moist silty lutite
S irregular

88-99
HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown
extensive mottling thoughout, yellowish brown
moist silty lutite
1 cm thick yellowish brown layer 98-99 cm
Note; coring log records some washing at the top of the pilot core.
end of core

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

Ship: Chain  Core No. 44 PG

Expedition 115  Station No. 85

Leg No. 5  Total Core Length 99 cm

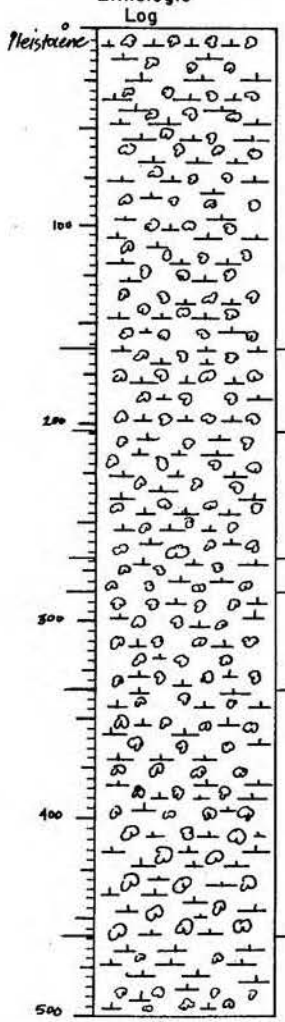
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 5 | 2 | | 2 | 31 | 15 | 40 | | tr | 5 | | | |
| 50 cm | calc ooze | 3 | 2 | | 2 | 60 | 3 | 25 | | | 5 | | | |
| 75 cm | calc ooze | 3 | 3 | | 1 | 60 | 5 | 23 | | tr | 5 | | | |
| 98 cm | hly calc clay | 4 | 3 | | 2 | 71 | 5 | 10 | | tr | 5 | tr | | |



VISUAL CORE DESCRIPTION  Page 1 of 2

Ship CHAIN Cruise 115 Leg 5 Sta. 86 Core No. 45PC
Total Length 591 cm. Lat. 34°31.08'S Long. 24°26.41'W Depth 4305 m.corr.
Core condition EXCELLENT Date Described 9 JULY 75 by J. Broda
Physiographic location HUNTER CHANNEL.. EXTREME SOUTHERN BRAZIL BASIN.

Lithologic Log




Detailed Description

0-162
CALC OOZE
10YR 7/4 very pale brown, 6/4 light yellowish brown and 5/4 yellowish brown
extensive complete intermottling of the colors above
moist slightly silty lutite with foram content varying from scattered to abund. irregularly throughout
G mottled

162-204
CALC OOZE
5YR 6/4 light reddish brown
extensive elongated yellowish brown burrowing and mottling
slick compact lutite becoming firmer down core
small (2mm) spherical black clusters of Mn micronodules
G mottled

204-268
CALC OOZE
7.5YR 5/4 brown
very extensive small dark brown and yellowish brown burrowing and mottling, at base of unit is one large spherical reddish brown firm mottle
stiffer more compact slick lutite
S mottled

268-285
CALC OOZE
10YR 6/4 light yellowish brown
extensive elongated yellowish brown burrowing and mottling
compact slick lutite
S mottled

285-334
CALC OOZE
10YR 5/4 yellowish brown grades to 4/4 dark yellowish brown
very extensive intermottling and inter burrowing of the two colors above
firm compact slick lutite
G mottled

334-458
CALC OOZE
7.5YR 4/4 dark brown
common large very distinct light reddish brown mottles in the zone 400-445 cm, otherwise fine dark brown
very firm compact smooth lutite
G mottled

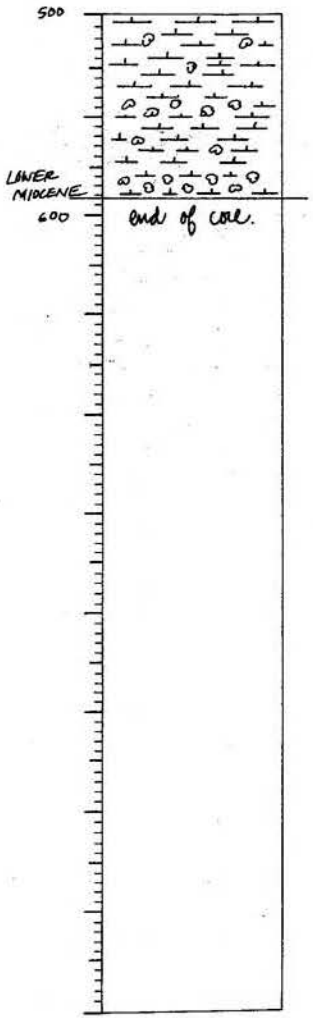
458-591
CALC OOZE
10YR 5/4 yellowish brown
several zones of extensive fine dark yellowish brown mottling 485-497 cm, 540-555, 580-591 cm otherwise, common, fine, dark yellowish brown mottling and an occasional haloed very pale brown spherical mottle
very firm compact smooth lutite
end of core

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 86 Core No. 45PC

Lithologic Log




Detailed Description



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

Ship: Chain Core No. 45 PC

Expedition 115 Station No. 86

Leg No. 5 Total Core Length 591 cm

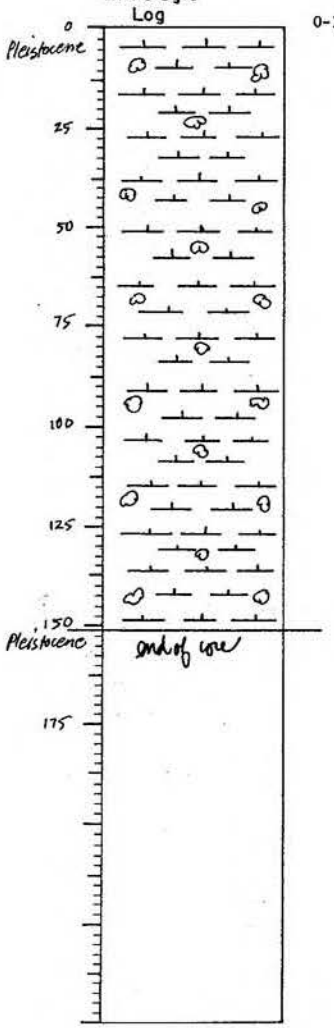
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | 4 | | tr | 35 | 10 | 45 | | tr | 5 | | | |
| 100 cm | calc ooze | 2 | 4 | | tr | 14 | 12 | 60 | | tr | 8 | | | |
| 165 cm | calc ooze | 1 | 5 | | tr | 24 | tr | 55 | | 12 | 3 | | | |
| 200 cm | calc ooze | 2 | tr | | tr | 26 | tr | 55 | | 15 | 2 | | | |
| 300 cm | calc ooze | 3 | tr | | tr | 49 | | 55 | | 12 | 1 | | | |
| 400 cm | calc ooze | 2 | 1 | | tr | 60 | | 26 | | 10 | 1 | | | |
| 500 cm | calc ooze | 1 | tr | | tr | 31 | | 55 | | 11 | 2 | | | |
| 590 cm | calc ooze | 2 | 1 | | | 27 | | 50 | | 18 | 2 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 86 Core No. 45PG
Total Length 152 cm. Lat. 31°31.08'S Long. 24°26.41'W Depth 4305 m. corr.
Core condition EXCELLENT Date Described 9 JULY 75 by J. Broda.
Physiographic location HUNTER CHANNEL... EXTREME SOUTHERN BRAZIL BASIN.

Lithologic Log




### Detailed Description

0-152
CALC OOZE
10YR 6/3 pale brown repeatedly grades to 5/3 brown
common intermottling of the colors above with the occasional addition of very pale brown burrowing 80-150 cm
moist slightly silty lutite with forams generally scattered throughout; a bit more abund. in the zone 0-30 cm
end of core



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

Ship: Chain Core No. 45 PG
Expedition 115 Station No. 86
Leg No. 5 Total Core Length 152 cm

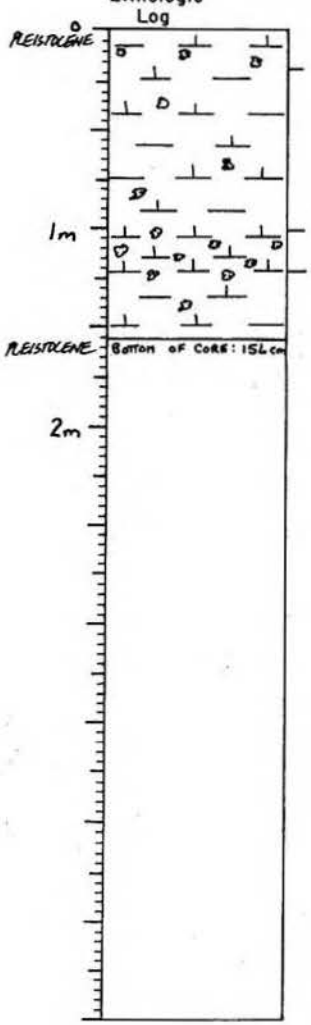
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | tr | | | 15 | 15 | 65 | | tr | 4 | | | |
| 100 cm | calc ooze | 2 | tr | | | 23 | 5 | 65 | | tr | 5 | | | |
| 151 cm | calc ooze | 2 | tr | | | 20 | 4 | 70 | | tr | 4 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 87 Core No. 46 GC
Total Length 156 cm. Lat. 29° 53.41'S Long. 25° 29.58'W Depth 4833 corr m
Core condition EXCELLENT Date Described 7 JULY 75 by R McGIBR
Physiographic location Southern Brazilian Basin

Lithologic Log




### Detailed Description

0-18
HIGHLY CALC CLAY
10YR 4/4 dark yellowish brown
mottled at lower contact, 7-18 cm dark brown
firm slightly silty lutite
G mottled

18-102
HIGHLY CALC CLAY
10YR 4/3 dark brown and 4/4 dark yellowish brown
some intermottling of the two major colors-two mottles at 61 & 88 cm, halo of light brown around a center of dark brown
firm slightly silty lutite
several alternations of the two major colors
S mottled

102-122
CALC OOZE
10YR 5/3 brown
extensive mottling throughout, dark brown and light yellowish brown
firm slightly silty lutite
S mottled

122-156
HIGHLY CALC CLAY
10YR 4/3 dark brown becoming light yellowish brown 4/4 at 146 cm
mottles at upper contact, light yellowish brown; several mottles 130-145 cm, light yellowish brown
firm slightly silty lutite
150-156 core cutter (unsplit)
end of core



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

Ship: Chain Core No. 46 GC
Expedition 115 Station No. 87
Leg No. 5 Total Core Length 156 cm

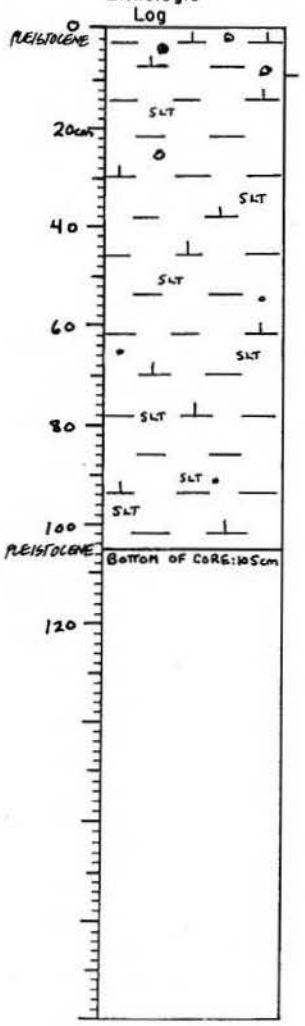
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | hly calc clay | 4 | 7 | | 2 | 58 | 5 | 20 | | tr | 3 | 1 | | |
| 50 cm | hly calc clay | 10 | 6 | | 3 | 60 | tr | 16 | | tr | 5 | | | |
| 110 cm | calc ooze | 10 | 6 | | 1 | 50 | 4 | 19 | | tr | 10 | | | |
| 149 cm | hly calc clay | 10 | 6 | | 2 | 54 | 3 | 20 | | tr | 5 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 88 Core No. 47 GC
Total Length 105 cm. Lat. 28° 31.55'S Long. 26° 22.27'W Depth 4826 corr m
Core condition EXCELLENT Date Described 3 JULY 75 by R McGIRR
Physiographic location Central Brazilian Basin

Lithologic Log




### Detailed Description

0-9
HIGHLY CALC CLAY
10YR 4/3 brown
common small mottles throughout, brown and dark brown
firm lutite
S mottled

9-105
SLIGHTLY CALC CLAY WITH DETRITUS
10YR 3/3 dark brown
very small black specks scattered throughout
firm silty lutite
end of core



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

Ship: Chain Core No. 47 GC
Expedition 115 Station No. 88
Leg No. 5 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 |
| 1 cm | hly calc clay | 5 | 10 | | 3 | 57 | tr | 20 | | tr | 5 | | | |
| 30 cm | sl calc clay with det | 20 | 10 | | 5 | 61 | tr | 2 | | | 2 | | | |
| 104 cm | sl calc clay with det | 20 | 12 | tr * | 3 | 61 | | 2 | | | 2 | | | |

* probably zeolites, though exact determination has not been made

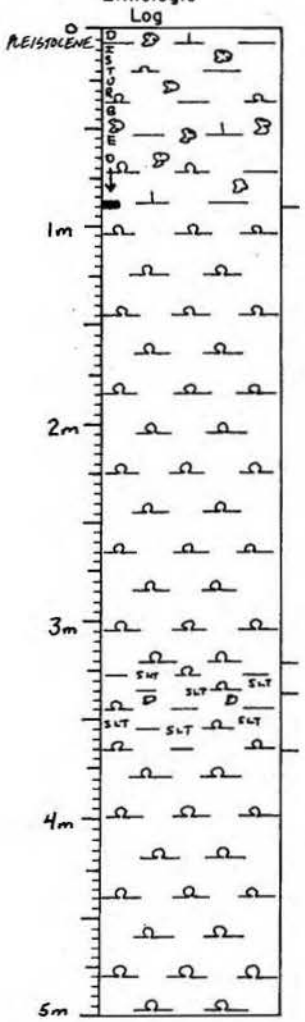
342

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 89 Core No. 48 PC
Total Length 891 cm. Lat. 26° 51.12'S Long. 27° 23.44'W Depth 5933 corr m
Core condition EXCELLENT Date Described 8 JULY 75 by R. McGIRR
Physiographic location Central Brazilian Basin

Lithologic Log




### Detailed Description

NOTE,
The piston corer tripped while the corer was being lowered at speed 2, at fourXthe usual lowering speed. The effect of this may be manifested in the unusual appearance of the uppermost unit of this core. Because of th high speed of entry, the sediment surface was most probably "blown off" and lost.

0-90
SLIGHTLY CALC CLAY AND HIGHLY SILIC CLAY
10YR 6/4 light yellowish brown and 3/3 dark brown
extensive intermottling of the 2 major colors
slightly silty lutite
severely contorted intermixture of the 2 major colors; disturbed looking unit, a very sharp, horizontal contact of the two colors at 49 cm
S irregular

90-320
DIATOM OOZE
major colors are: 10 YR 8/3 and 7/3 very pale brown, 8/1 white, and 5/2 grayish brown
somewhat clumpy, spongy silic mulch
unit is predominantly brown and grayish brown, 90-130 cm; over this interval the two colors are intermottled-130-320 cm, all major colors plus similar shades are together, usually occuring in 1-2 cm thick layers, and convex upwards, several gray patches occur, 90-130, 166-171, 177, 276, 297-303- 1 cm wide drying crack at base of unit
S irregular

320-336
SILIC CLAY WITH DETRITUS
2.5Y 6/2 light brownish gray
very faint mottling at lower contact
somewhat slick, silty lutite
G

336-365
SILIC CLAY WITH DETRITUS
10YR 6/4 light yellowish brown
scattered mottling at upper contact
somewhat slick silty lutite
the sequence of multi-colored, laminated unit to light gray unit to light brown unit now repeats itself once, over the interval 365 cm to 670 cm, although some differences in texture are noticeable
S horizontal

365-625
DIATOM OOZE
multicolored, major colors are: 10 YR 6/3 pale brown, 8/3 very pale brown, 8/1 white, and 6/1 light gray
somewhat clumpy spongy, silic mulch

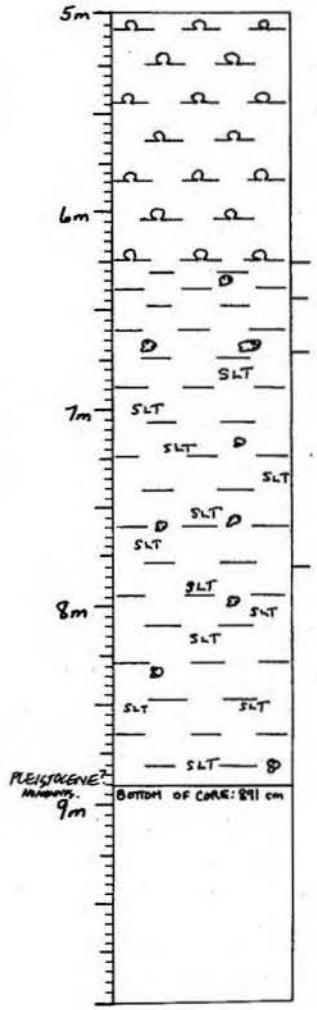
343

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 5 Sta. 89 Core No. 48 PC

Lithologic Log




### Detailed Description

charcteristics very similar to those of the multicolored unit observed further up core. This unit is composed primarily of 1-2 cm thick, convex-up laminations. Similar texture throughout, though colors are quite varied. Substantial gray lamimtions in this unit.
S irregular

625-644
UNFOSS CLAY
2.5Y 6/2 light brownish gray
faint mottling 625-634 cm, dark gray
firm lutite
1 cm thick concentration of sand sized grains, 640 cm
S horizontal

644-670
UNFOSS CLAY
10YR 6/4 light yellowish brown
several very large inclusions of lower unit, 664-670 cm
firm lutite
same sequence of silic mulch, gray unit, then brown unit, as observed higher up in the core
S irregular

670-779
UNFOSS CLAY WITH DETRITUS
10YR 4/3 brown
scattered, somewhat hazy mottles throughout, light brown common mottling 760-764 cm dark brown
firm silty lutite
S irregular

779-891
UNFOSS CLAY WITH DETRITUS
10YR 3/3 dark brown
occasional mottles throughout light brown, black specks scattered throughout
firm silty lutite
875-891 cm core cutter
end of core

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

Ship: Chain  Core No. 48 PC

Expedition 115  Station No. 89

Leg No. 5  Total Core Length 891 cm

| Pyrite | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | Silico flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| tr | 1 cm | sl calc clay | 12 | 1 | | 2 | 80 | | | | | 5 | 1 | | | |
| tr | 70 cm | hly silic clay | 5 | 3 | tr | 3 | 67 | | | | | 2 | 20 | | | |
| 5 | 100 cm | diatom ooze | 7 | 3 | | 2 | 5 | | | | | | 78 | | | |
| tr | 177 cm | diatom ooze | 3 | 10 | | tr | 5 | | | | | | 82 | tr | | |
| tr | 200 cm | diatom ooze | 5 | 2 | | tr | 5 | | | | | | 88 | tr | | |
| 5 | 300 cm | diatom ooze | 5 | 2 | | | 10 | | | | tr | tr | 78 | | | tr |
| 3 | 325 cm | silic clay with det | 18 | tr | | 4 | 63 | | | | | 2 | 10 | tr | | tr |
| 3 | 350 cm | silic clay with det. | 18 | 1 | tr | 1 | 55 | tr | | | | 2 | 20 | | tr | |
| 4 | 400 cm | diatom ooze | 3 | 1 | | 1 | 10 | | | | | 2 | 79 | | | |
| 2 | 500 cm | diatom ooze | 2 | tr | | | 5 | | | | | tr | 91 | | | |
| 3 | 600 cm | diatom ooze | 5 | 1 | | 1 | 10 | | | | | 1 | 79 | | | |
| tr | 635 cm | unfoss clay | 12 | 2 | tr | 3 | 81 | | | | | 2 | 2 | | | |
| 2 | 655 cm | unfoss clay | 10 | 3 | | 3 | 80 | | tr | | | 2 | | | | |
| 4 | 700 cm | unfoss clay with det | 20 | 5 | | 3 | 66 | | | | | 2 | | | | |
| 1 | 800 cm | unfoss clay with det | 20 | 4 | | 2 | 71 | | | | | 2 | | | | |
| tr | 874 cm | unfoss clay with det | 18 | 6 | tr | 10 | 64 | | | | | 2 | | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

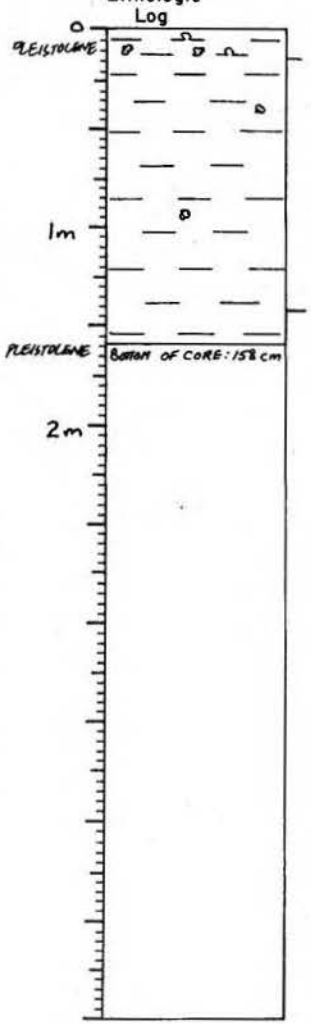
Ship CHAIN Cruise 115 Leg 5 Sta. 89 Core No. 48 PG

Total Length 158 cm. Lat. 26° 51.18'S Long. 27° 22.44'W Depth 5933 corr m

Core condition EXCELLENT Date Described 9 JULY 75 by R McGIRR

Physiographic location Central Brazilian Basin

Lithologic Log




Detailed Description

NOTE,
Corer entered sediment at speed 2, rather than the usual 1. There is some possibility of disturbance in the upper part of the pilot gravity core.

0-13
SLIGHTLY SILIC CLAY
10YR 3/3 dark brown
mottling at 8-11 cm, light brown
moist, slightly silty lutite
thin, interrupted wavy lamination, light brown at 2 cm
G

13-142
UNFOSS CLAY
10YR 4/3 brown
few mottles throughout, light brown
moist, slightly silty lutite
S inclined 5°

142-158
UNFOSS CLAY
10YR 3/3 dark brown
very faint mottling, light brown
moist, slightly silty lutite
153-158 cm core cutter
end of core

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

Ship: Chain  Core No. 48 PG

Expedition 115  Station No. 89

Leg No. 5  Total Core Length 158 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | sl silic clay | 8 | 6 | tr | 2 | 82 | | tr | | | tr | 2 | | |
| 100 cm | unfoss clay | 13 | 8 | tr | 2 | 77 | tr | tr | tr | | tr | | | |
| 152 cm | unfoss clay | 12 | 4 | tr | 2 | 82 | | tr | | | tr | tr | | |

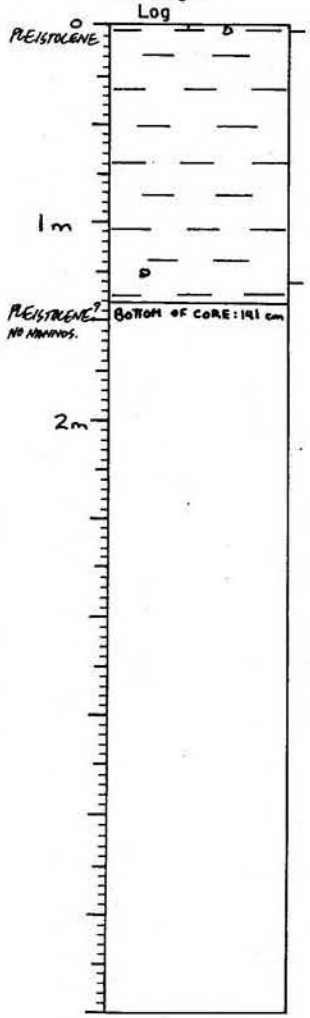


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 90 Core No. 49 GC
Total Length 141 cm. Lat. 25° 17.12'S Long. 28° 22.18'W Depth 5355 corr m
Core condition EXCELLENT Date Described 23 JULY 75 by R McGIRR
Physiographic location Central Brazilian Basin

Lithologic Log




Detailed Description

0-2
CALC CLAY
10YR 6/3 pale brown
one mottle
moist lutite
S horizontal

2-130
UNFOSS CLAY
10YR 3/3 dark brown
moist lutite
some intermittently thin patches of pale brown lutite along liner edge, somewhat inclined, 3 cm wide layer of pale brown lutite with black streaks running thru layers, 108-111 cm, large elongated gray mottle at 9 cm, small, pale brown lutite blotches throughout
S, irregular

130-141
UNFOSS CLAY
10YR 4/3 dark brown
1 large pale brown blotch 129-131 cm
moist lutite
small pale brown blotches 130-136 cm
end of core

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

Ship: Chain  Core No. 49 GC

Expedition 115  Station No. 90

Leg No. 5  Total Core Length 141 cm

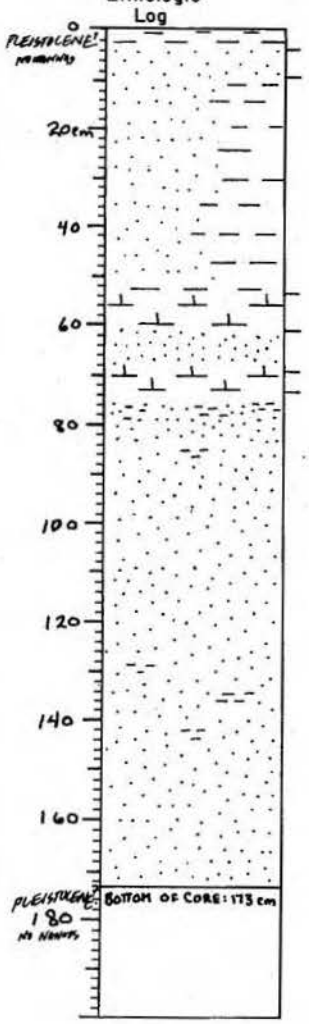
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc clay | 5 | 1 | | 2 | 82 | | | | | 10 | | | |
| 50 cm | unfoss clay | 10 | 12 | | 1 | 75 | | | | | 2 | | | |
| 110 cm | unfoss clay | 10 | 3 | | 2 | 83 | | | | | 2 | | | |
| 140 cm | unfoss clay | 10 | 10 | | 2 | 75 | | 1 | | | 2 | | | |



VISUAL CORE DESCRIPTION  Page 1 of 2

Ship CHAIN Cruise 115 Leg 5 Sta. 91 Core No. 50 PC
Total Length 173 cm. Lat. 24° 12.79'S Long. 29° 06.37'W Depth 5460 corr m
Core condition EXCELLENT, TWO' DISTURBED Date Described 23 JULY 75 by R McGIRR
Physiographic location Central Brazilian Basin

Lithologic Log




Detailed Description

NOTE:
Severe problems were encountered during the coring operation for core 50 PC. Notes from the shipboard log read , "piston core held for 6 minutes, about 1 minute after core hit it appears to have fallen over...penetration at that point was 5-10 feet. Core bent severely at bottom barrel..sample on hand extruded from middle barrel..suspect flow-in in lower bent pipe, not extruded".
The core appears to be disturbed. Two very different lithologic units, an abyssal lutite and a detrital sand, are unusually arranged. It appears that the units have been highly altered, and that the sand units in particular are severely washed. There is some indication of graded bedding in the sand over the length of the entire core.
The macroscopic description that follows was done with the above considerations in mind.

0-4
UNFOSS CLAY
10YR 3/3 dark brown
common swirls from 2-4 cm light brown
moist lutite
some washed sand along very edge of unit
S irregular

4-9
DETRITAL SAND
10YR 6/3 pale brown
fine and medium sand
S irregular

9-53
DETRITAL SAND AND UNFOSS CLAY
10YR 6/3 pale brown (sand) and 3/3 dark brown (lutite)
sand and lutite
unusual vertical combination of two distinct lithologies eg. lutite is along one side and and sand along the other
S irregular

53-61
CALC OOZE
2.5Y 7/2 light gray
extensive mottling throughout, dark brown
moist lutite
S irregular

61-69
DETRITAL SAND
10YR 6/3 pale brown
fine and medium sand
somewhat washed along liner at lower contact
S irregular

69-73
CALC OOZE
2.5Y 6/2 light brownish gray
several small mottles, dark brown and light brown

VISUAL CORE DESCRIPTION



Ship CHN Cruise 115 Leg 5 Sta. 91 Core No. 50 PC

Lithologic Log

Detailed Description

lutite
very hard, compact nodule of lutite (2 x 3 x 3 cm) at 73 cm
S irregular
73-173
DETRITAL SAND AND CLUMPS OF UNFOSS CLAY
10YR 6/3 pale brown
medium and fine sand
two patches of included lutite blobs, which do not extend to the liner and appear to be artificially emplaced here; 73-85, 126-146 cm, appears to be a general size gradation over the length of the unit
end of core



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

Ship: Chain Core No. 50 PC

Expedition 115 Station No. 91

Leg No. 5 Total Core Length 173 cm

| Pyrite | LEVEL | SEDIMENT TYPE | ESTIMATED 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 | 1 cm | unfoss clay | 8 | 5 | | 2 | 83 | tr | | | | | | | |
| 2 | 60 cm | calc ooze | 4 | 3 | | 4 | 30 | 10 | 28 | 1 | 3 | 15 | tr | | |
| tr | 71 cm | calc ooze | 5 | 3 | | 1 | 26 | 1 | 60 | | tr | 4 | | | |
| | lump 73 cm | calc ooze | 2 | tr | | | 10 | | | | | 88* | | | |
| | sand 140 cm | det sand | 77 | 2 | | | 5 | 10 | 2 | 2 | | 2 | | | |

* highly altered

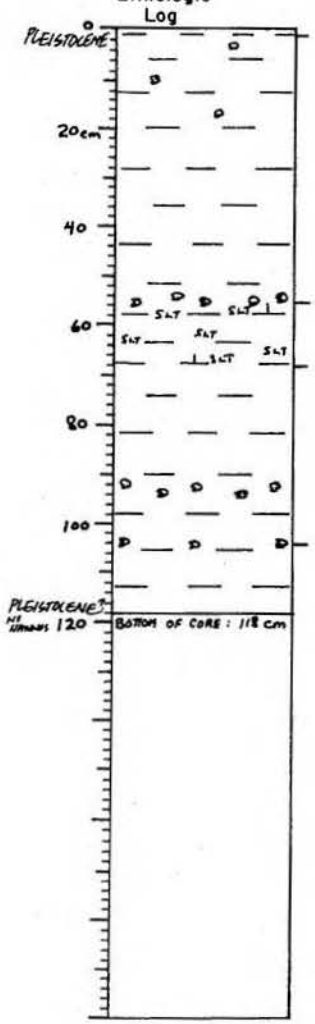
Note; two smear slides have been prepared for the sand-sized units, one a conventional smear slide and the other a smear slide of an acidified sand sample. Only an analysis of the untreated smear slide is given here.

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 92 Core No. 51 GC
Total Length 118 cm. Lat. 24° 00.05'S Long. 30° 10.40'W Depth 5313 corr m
Core condition EXCELLENT Date Described 23 JULY 75 by R McGIRR
Physiographic location Central Brazilian Basin

Lithologic Log




### Detailed Description

0-1
SLIGHTLY CALC-SILIC CLAY
2.5Y 5/2 grayish brown
faint black horizontal streaking throughout
moist lutite
S irregular

1-55
UNFOSS CLAY
10YR 4/3 dark brown
black smeared mottles, 1-15 cm
moist lutite
somewhat vertical, smeared lineations, light brownish gray 15-55 cm possible indication of disturbance
mottled over interval 50-60 cm

55-68
SLIGHTLY CALC CLAY/DETRITUS
2.5Y 6/2 light brownish gray
mottled extensively at upper contact, dark brown
moist silty lutite
nearly horizontal, thin black microlaminations 60-64 cm
S irregular

68-104
UNFOSS CLAY
10YR 5/3 brown
extensive mottling 90-96 cm light brownish gray, mottled at lower contact
moist lutite
somewhat vertical, smeared lineation, light brownish gray 68-91 cm, possible indication of disturbance
S irregular, mottled

104-118
UNFOSS CLAY
10YR 4/3 dark brown
mottled at upper contact
moist lutite
113-118 cm core cutter
end of core



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

Ship: Chain Core No. 51 GC
Expedition 115 Station No. 92
Leg No. 5 Total Core Length 118 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | slightly calc-silic clay | 8 | 3 | | 4 | 83 | | 1 | | | tr | tr | | 1 |
| 40 cm | unfoss clay | 10 | 10 | | 3 | 77 | | | | | | | | |
| 58 cm | sl calc clay/ det | 55* | 4 | | 2 | 36 | | 3 | | | | | | tr |
| 80 cm | unfoss clay | 5 | 12 | | 2 | 81 | | | | | | tr | | tr |
| 112 cm | unfoss clay | 8 | 10 | | 2 | 80 | | | | | | | | |

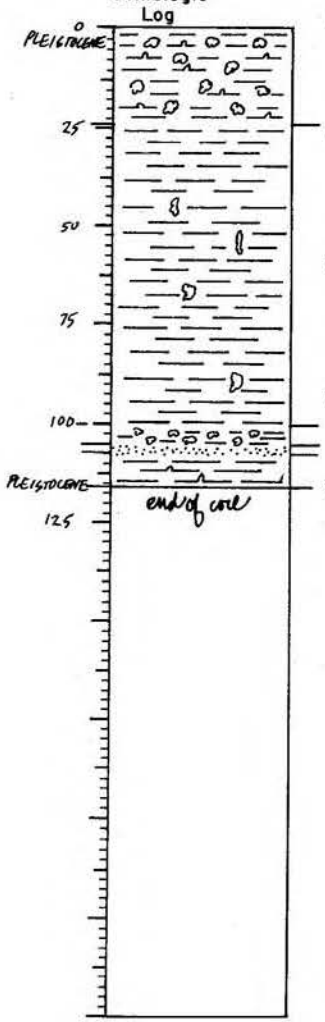
* most grains have some type of coating

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHN Cruise 115 Leg 5 Sta. 93 Core No. 52 GC
Total Length 116 cm. Lat. 23° 56.61'S Long. 31° 12.05'W Depth 5179 m. corr.
Core condition EXCELLENT Date Described 1 July 75 by J. Brooks
Physiographic location CENTRAL BRAZILIAN BASIN.

Lithologic Log




### Detailed Description

0-24
SLIGHTLY SILIC CLAY
10YR 3/3 dark brown
extensive pale brown and dark brownish gray mottling
moist slick lutite
G

24-100
UNFOSS CLAY
10YR 5/3 brown
odd vertically oriented pale brown streaking elongated throughout unit
moist slick lutite
G

100-105
UNFOSS CLAY
10YR 6/3 pale brown
fine extensive brown and brownish gray mottling
moist slick lutite
S

105-107
DETRITUS
10YR 5/2 grayish brown
stiff compact silty lutite
S horizontal

107-116
SLIGHTLY SILIC CLAY
10YR 5/3 brownish
homogeneous mottling throughout
moist slick lutite
end of core



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

Ship: Chain Core No. 52 GC
Expedition 115 Station No. 94
Leg No. 5 Total Core Length 116 cm

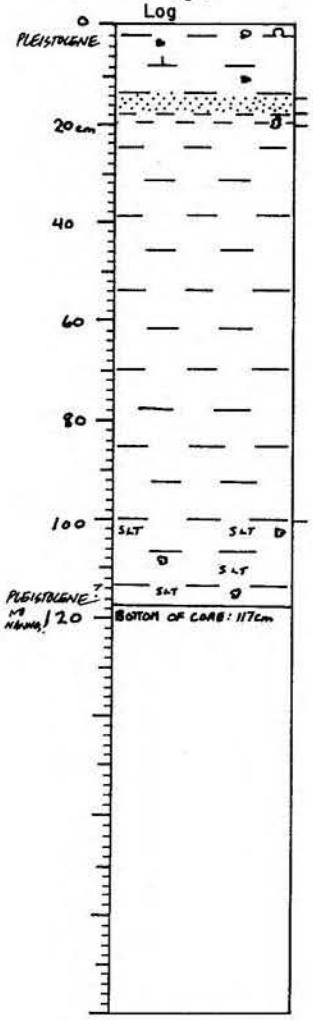
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | sl silic clay | 12 | 3 | | 2 | 81 | | tr | | | | tr | | 2 |
| 60 cm | unfoss clay | 4 | 2 | | tr | 94 | | | | | | tr | | tr |
| 106 cm | detritus | 83 | 2 | | | 15 | | | | | tr | tr | | tr |
| 115 cm | sl silic clay | 3 | 3 | | 1 | 92 | | | | | | tr | | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHN Cruise 115 Leg 5 Sta. 94 Core No. 53 GC
Total Length 117 cm. Lat. 23° 49.03'S Long. 33° 13.50'W Depth 4757 corrm
Core condition EXCELLENT Date Described 13 July 75 by R McGIBR
Physiographic location Central Brazilian Basin

Lithologic Log




### Detailed Description

0-14
SLIGHTLY SILIC CALC CLAY
10YR 6/2 grayish brown
common mottling throughout, smeared out, light brownish gray, one small sand mottle at 12 cm
slightly silty lutite
S irregular

14-17
DETRITUS
2.5Y 5/2 grayish brown
medium and fine sand
S irregular

17-20
UNFOSS CLAY
2.5Y 6/2 light brownish gray
faint mottling throughout, grayish brown, one large elongated nearly vertical mottle that extends thru entire unit and into unit below, dark grayish brown
slightly silty lutite
mottled, over 3 cm interval

20-100
UNFOSS CLAY
10YR 4/3 dark brown
slightly silty lutite
numerous thin, black, fuzzy almost horizontal laminations throughout
S irregular

100-117
UNFOSS CLAY WITH DETRITUS
10YR 5/3 brown
common small mottles throughout, light brown
slightly silty lutite
98-100, 105-106 cm, patches with numerous black specks
end of core



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

Ship: Chain Core No. 53 GC
Expedition 115 Station No. 94
Leg No. 5 Total Core Length 117 cm

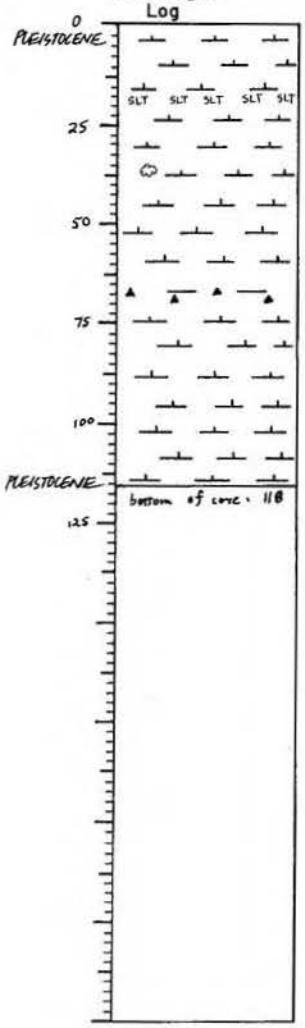
| Pyrite | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 3 | 1 cm | sl silic calc clay | 15 | 2 | | 2 | 70 | | 1 | | | 2 | 2 | tr | 3 |
| 4 | 15 cm | detritus | 75 | 3 | | 3 | 6 | 2 | 2 | | tr | 2 | 1 | | 3 |
| 5 | 50 cm | unfoss clay | 15 | 5 | | 2 | 73 | | | | | tr | | tr | tr |
| 3 | 116 cm | unfoss clay with det | 25 | 3 | | 3 | 65 | | | | | tr | tr | tr | 1 |

## VISUAL CORE DESCRIPTION



Ship CHN Cruise 115 Leg 5 Sta. 95 Core No. 54 GC
Total Length 118 cm. Lat. 23° 39.17' S Long. 35° 13.55' W Depth 4153 corr. m.
Core condition excellent Date Described 11 Nov 75 by H Farmer
Physiographic location CONTINENTAL RISE OFF RIO de JANEIRO

Lithologic Log




### Detailed Description

0-118
CALC OOZE WITH LAMINATIONS OF PYRITE-RICH UNFOSSILIFEROUS CLAY
10 YR 5/3 brown (0-17 cm), 10 YR 6/3 pale brown at 20 cm grades slowly to 10 YR 5/4 yellow brown (30-66 cm), and back to pale brown by ~90 cm
2-3 mm dark brown discontinuous streaks common (0-5 cm); they are similar to laminae below and were probably disturbed as core entered sediment: 7 cm - small dark brown clast of slick lutite: thin streaks, subtle laminations, and a few pale brown mottles are present from 20-45 cm; below this, only the laminations are present, varying from < 1 mm to 5 cm (66-71 cm) and irregularly spaced; laminations are 10 YR 4/2, dark grayish brown slick lutite
whole core is a slick lutite with very few forams except 17-20 cm; dark brown (10 YR 4/3) silt with sharp bottom contact - top 7 cm of core have scattered forams
end of core



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

Ship: CHN Core No. 54 GC
Expedition 119 Station No. 95
Leg No. 5 Total Core Length 118 cm

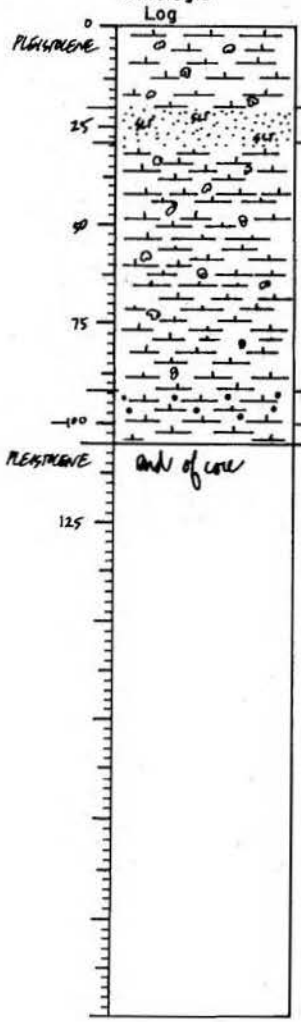
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | | Calcareous | | | | | Siliceous | | | |
| | | PYRITE | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | SILICO FLAG |
| 1 | calc ooze | 1 | 3 | tr | | 2 | 20 | tr | 69 | | tr | 3 | tr | 1 | 2 | tr |
| 68 | unfoss. clay | 15 | tr | | | 1 | 84 | | | | | | tr | tr | tr | |
| 116 | calc ooze | tr | 3 | | | 1 | 50 | | 44 | | tr | 2 | tr | tr | tr | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 96 Core No. 55GC
Total Length 105 cm. Lat. 23°27.45'S Long. 37°04.06'W Depth 3944 meters
Core condition EXCELLENT Date Described 7 July 75 by J. Brown
Physiographic location CONTINENTAL RISE OFF RIO.

Lithologic Log




### Detailed Description

0-20
CALC OOZE
10YR 6/4 light yellowish brown grades to 6/3 pale brown
common small light brown and brownish gray mottling throughout
moist slightly silty lutite with forams scattered irregularly throughout
S textural

20-29
DETRITUS
10YR 5/2 grayish brown
fine micro laminations throughout; one thick 1 cm wide dark brown lamination dominates unit at 24 cm
very moist zone of nearly pure silt; fairly homogeneous throughout, no grading apparent
S inclined 10°

29-92
CALC OOZE
10YR 6/2 light brownish gray grades to 6/3 pale brown
common faint light yellowish brown and very pale brown mottling throughout
moist very slightly silty lutite with a few forams scattered throughout
S inclined 15°

92-100
CALC OOZE WITH Mn MICRO NODULES
10YR 4/1 dark gray
very abund. thin and thick laminations throughout, additional hues pale brown and light gray
moist slighlty silty lutite
S inclined 15°

100-105
CALC OOZE
10YR 6/2 brownish gray
a few faint gray hazy micro laminae throughout
moist slightly silty lutite with a couple forams
end of core



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

Ship: Chain Core No. 55 GC
Expedition 115 Station No. 96
Leg No. 5 Total Core Length 105 cm

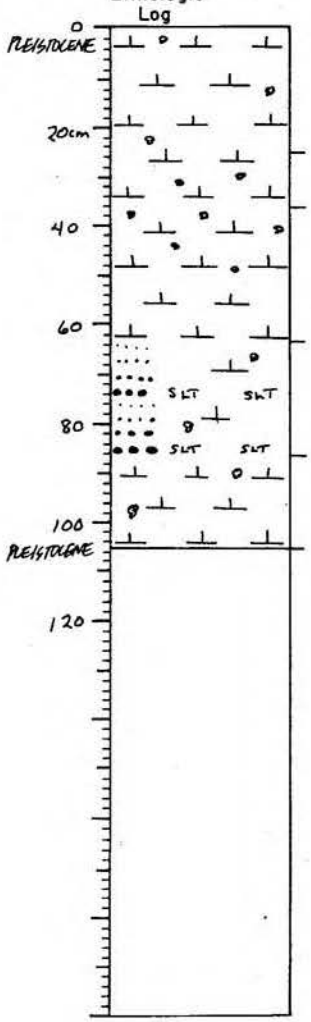
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | THORALOSPHEROIDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 cm | calc ooze | 4 | tr | | | 51 | 3 | 32 | | 1 | 5 | | | 1 | 5 |
| 22 cm | detritus | 85 | | | | 10 | 3 | | | | 2 | | | tr | |
| 40 cm | calc ooze | 2 | tr | | | 55 | 3 | 35 | | | 3 | | | | 2 |
| 96 cm | calc ooze with Mn micros | 5 | 25 | | | 40 | 2 | 25 | | | 3 | | | tr | tr |
| 104 cm | calc ooze | 2 | 10 | | | 54 | 3 | 26 | | | 5 | | | | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 98 Core No. 57 GC
Total Length 105 cm. Lat. 23° 05.8'S Long. 40° 09.11'W Depth 2595 corrm
Core condition EXCELLENT Date Described 24 JUNE 75 by R McGIRR
Physiographic location Continental Slope off Rio de Janeiro

Lithologic Log




### Detailed Description

0-25
CALC OOZE
2.5Y 6/2 light brownish gray
scattered small mottles throughout, gray
firm silty lutite
several small patches and layers of high-foram concentrations
G

25-36
CALC OOZE
7.5YR 5/4 brown
common small mottles throughout, light brown
firm silty lutite
several small pockets of high-foram concentration
G

36-63
CALC OOZE
5Y 6/3 pale olive
36-50 cm, extensive small, black mottling
firm slightly silty lutite
several approximately horizontal fuzzy orange laminations, 58-63 cm
S horizontal

63-86
CALC OOZE GRADES TO DETRITUS
5Y 5/2 olive gray
occasional black specks throughout
firm lutite grades to silt
two graded beds within unit 63-74, 74-86 cm, sandy layer from 85-86 cm, some small shells contained in layer
S irregular

86-105
CALC OOZE
5Y 6/1 gray
occasional small black specks throughout
firm silty lutite
two 1 cm wide, brown laminations, inclined 40° at 90, 94 cm
S
end of core



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

Ship: Chain Core No. 57 GC
Expedition 115 Station No. 98
Leg No. 5 Total Core Length 105 cm

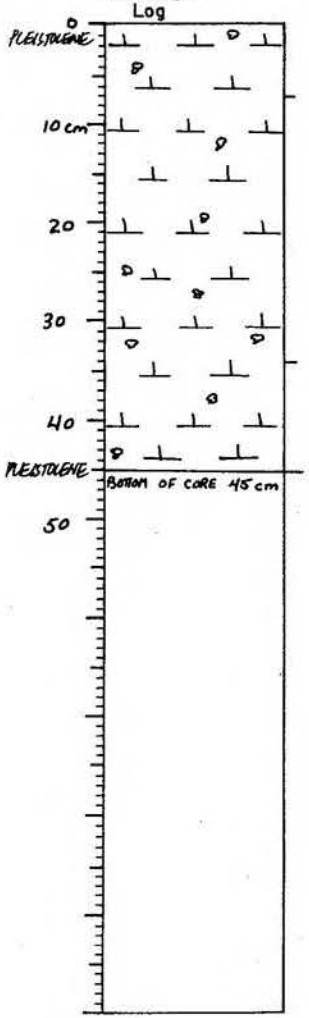
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | Thoracosphaeroids |
| 1 cm | calc ooze | 5 | 2 | | 1 | 44 | 10 | 20 | 8 | tr | 10 | | | tr | tr |
| 30 cm | calc ooze | 10 | 4 | | 1 | 40 | 15 | 14 | 5 | | 10 | | | 1 | tr |
| 50 cm | calc ooze | 5 | 2 | | 1 | 44 | 10 | 20 | 8 | tr | 10 | | | tr | tr |
| 85 cm | detritus | 80 | 2 | | 2 | 2 | 10 | 2 | | | 2 | | | tr | tr |
| 104 cm | calc ooze | 15 | 2 | | 2 | 37 | 5 | 30 | 4 | tr | 5 | | | tr | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 5 Sta. 99 Core No. 58 GC
Total Length 45 cm. Lat. 24° 16.79'S Long. 41° 37.90'W Depth 1922 corr m
Core condition EXCELLENT Date Described 23 JUNE 75 by R McGIRR
Physiographic location Continental Slope off Rio de Janeiro

Lithologic Log




### Detailed Description

0-7
CALC OOZE
5Y 5/2 olive gray
scattered faint mottles throughout, light brownish gray
firm moist lutite
G mottled

7-34
CALC OOZE
2.5Y 6/2 light brownish gray
scattered mottling throughout brownish gray, common 24-34 cm gray
firm moist silty lutite
2 approximately horizontal, fuzzy, dark laminations at 15 and 23 cm
S irregular

34-45
CALC OOZE
5Y 5/2 olive gray
scattered mottling throughout, gray
firm very silty lutite
less moist than rest of core; 40-45 cm core cutter
end of core



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

Ship: Chain Core No. 58 GC
Expedition 115 Station No. 99
Leg No. 5 Total Core Length 40 cm

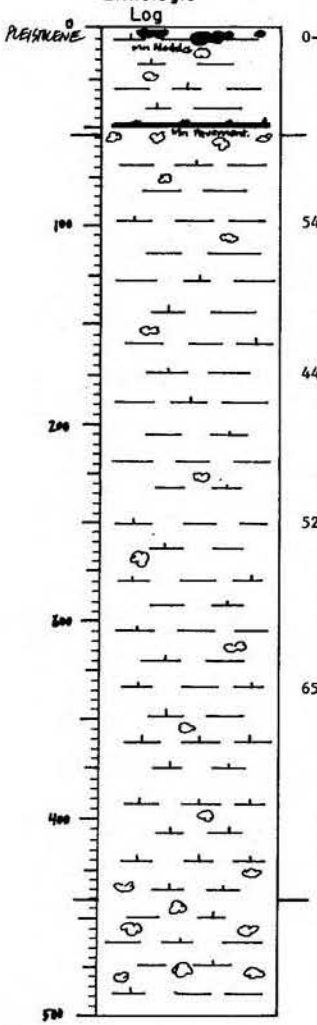
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 10 | | | 1 | 40 | 15 | 15 | 8 | | 10 | | | 1 |
| 20 cm | calc ooze | 10 | 2 | | 2 | 20 | 15 | 22 | 10 | | 15 | | | 4 |
| 39 cm | calc ooze | 5 | 2 | | 2 | 25 | 15 | 24 | 15 | | 10 | | | 2 |

## VISUAL CORE DESCRIPTION



Ship CHN Cruise 115 Leg 6 Sta. 102 Core No. 59PC
Total Length 753 cm. Lat. 29°20.8'S Long. 40°05.8'W Depth 4180 m. corr.
Core condition EXCELLENT Date Described 8 JAN 75 by J. BRODA
Physiographic location WESTERN VEMA CHANNEL.

Lithologic Log




### Detailed Description

0-54
HLY CALC CLAY
10YR 6/3 pale brown grades to 5/3 brown
sl mottling throughout 10YR 6/4 lt yellowish brown, extensive mottling at basal contact
three Mn nodules at top of core.two elongated (3 cm x 1 cm ) 1 cm diameter spherical, v. moist almost soupy lutite with scattered forams
Mn pavement struck and penetrated at 50 cm
G mottled

54-441
SL CALC CLAY TO CALC OOZE
2.5Y 5/2 grayish brown to 6/2 lt brownish gray
faint sl mottling throughout unit, scattered black fleck (Mn micro?) and some brown found overall
moist firmer lutite with occasional small bits of lithified lutite and a few scattered forams
S, I 15°

441-529
SL CALC CLAY
2.5Y 6/2 lt brownish gray
shadowy black mottling 470-529 cm,v. delicate in places, common gray mottling 441-470 cm
firm smooth lutite with a few forams
thin (2 mm) black lamination at bottom contact
S, I 5°

529-651
SL CALC CLAY
5Y 5/3 olive, 2.5Y 4/2 dk grayish brown
common marbling in the olive portion of the unit with 2.5Y 4/4 olive brown
firm smooth lutite, a few black flecks scattered
peculiar interlocking arrangement of two different lithologies suggest some disturbance in this section of the core.
S concave upward

651-720
CALC OOZE
2.5Y 6/2 lt brownish gray
a number of various inclusions appear, 1. 2x3 cm smooth mottle 10YR 6/2 olive, 2. a few scattered white lithified nodules 700 cm 3. one v. large 6 cm x 5 cm lithified lutite lump spanning 70% of liner width (unfoss clay with pyrite)
firm moist lutite, abund. forams
disturbance (flow in is suspect) in this unit with no continuous features and an assortment of unusual inclusions
S, I 30°

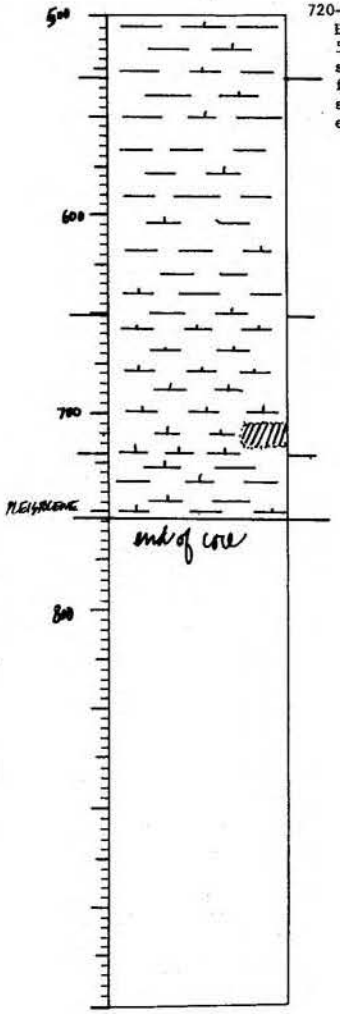


## VISUAL CORE DESCRIPTION



Ship CHN Cruise 115 Leg 6 Sta. 102 Core No. 59PC

Lithologic Log




### Detailed Description

720-753
HLY CALC CLAY
5 Y 6/2 light olive gray
scattered dk olive specks 720-723 cm
firm smooth lutite
small 1 cm diameter erratic at upper contact
end of core

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

Ship: Chain

Core No. 59 PC

Expedition 115

Station No. 102

Leg No. 6

Total Core Length 753 cm

| Depth in cm | LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | hly calc clay | 2 | | | | 73 | 5 | 15 | | tr | 4 | 1 | | |
| | 66 cm | sl calc clay | 5 | 7 | | | 85 | | | | tr | 3 | | | |
| | 93 cm | sl calc clay | 4 | 7 | | | 86 | | tr | | | 3 | | | |
| | 200 cm | calc clay | 5 | 3 | | | 82 | 2 | 5 | | tr | 3 | | | |
| | 300 cm | sl calc clay | 5 | 3 | | | 88 | tr | 2 | | | 2 | | | |
| | 400 cm | calc ooze | 3 | tr | | | 52 | | 40 | | | 5 | | | |
| | 530 cm | sl calc clay | 8 | 2 | | | 86 | tr | 1 | | | 3 | | | |
| | 600 cm | sl calc clay | 6 | 2 | | | 88 | tr | 2 | | tr | 2 | | | |
| | 700 cm | calc ooze | 3 | tr | | | 21 | 5 | 65 | | | 6 | | | |
| 15 | 710 cm | unfoss clay with pyrite | 5 | | | | 80 | | | | | tr | | | |
| | 736 cm | hly calc clay | 3 | 2 | | | 65 | tr | 25 | | | 4 | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

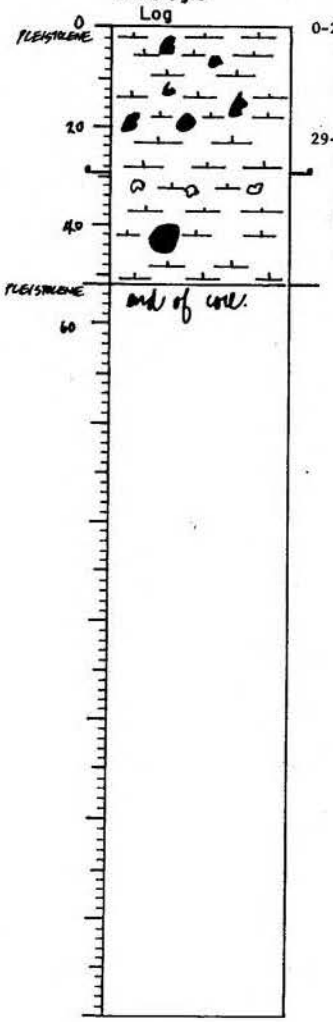
Ship CHN Cruise 115 Leg 6 Sta. 102 Core No. 59PG

Total Length 52 cm. Lat. 29°20.8'S Long. 40°05.8'W Depth 4100 m. corr.

Core condition EXCELLENT Date Described 9 JAN 75 by J. BRODA

Physiographic location WESTERN VEMA CHANNEL.

Lithologic Log




Detailed Description

0-29
CALC OOZE
10YR 6/3 pale brown
moist slick lutite, nine Mn nodules of assorted sizes largest 3x4 cm, more fragments visible
S,H

29-52
CALC OOZE
10YR 6/4 lt yellowish brown
common mottling 29-34 cm 10YR 5/4 brown
moist firmer lutite with scattered forams, one beautiful 4 cm diameter Mn nodule 40-45 cm
end of core

# 370

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

Ship: Chain  Core No. 59 PG

Expedition 115  Station No. 102

Leg No. 6  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 |
| 1 cm | calc ooze | 3 | 2 | | | 58 | 7 | 25 | | | 5 | | | |
| 51 cm | calc ooze | 10 | 5 | | | 55 | 15 | 10 | | | 5 | | | |

# 371

VISUAL CORE DESCRIPTION

Page 1 of 2

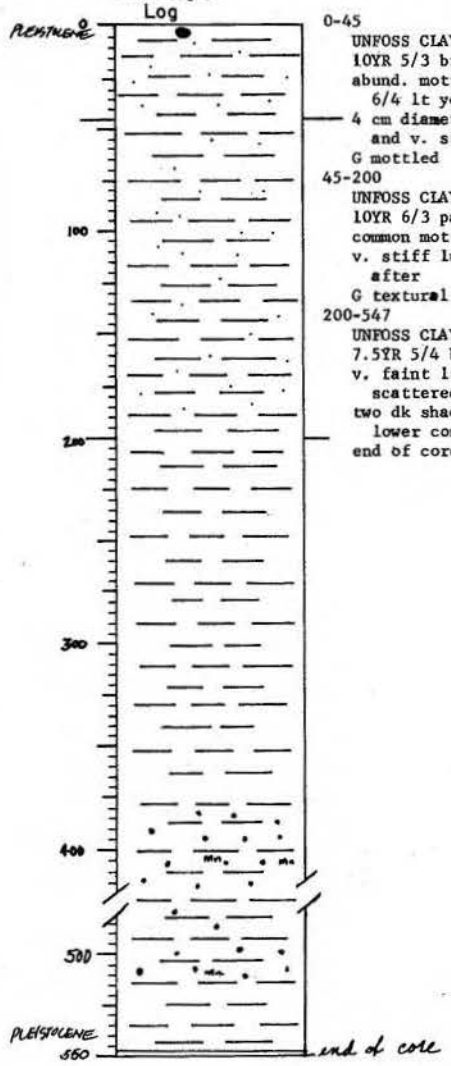
Ship CHAIN Cruise 115 Leg 6 Sta. 104 Core No. 60PC

Total Length 547 cm. Lat. 30° 13.8'S Long. 39°14.6'W Depth 4310m-corr.

Core condition EXCELLENT Date Described 9JAN.75 by J.BRODA

Physiographic location EASTERN VEMA CHANNEL

Lithologic Log




Detailed Description

0-45
UNFOSS CLAY WITH DET
10YR 5/3 brown
abund. mottles of lithified lumps of lutite throughout, 10YR 6/4 lt yellowish brown
4 cm diameter nodule at top of core, irregular texture slick and v. stiff lutite combined
G mottled

45-200
UNFOSS CLAY WITH DET
10YR 6/3 pale brown
common mottling 45-100 cm brown
v. stiff lutite, compact, 45-90 cm, slick smooth lutite thereafter
G textural

200-547
UNFOSS CLAY AND UNFOSS CLAY WITH MN MICRONODULES
7.5YR 5/4 brown
v. faint lt yellowish brown mottles throughout, black flecks scattered rarely throughout
two dk shadowy layers of sediment with fairly sharp upper and lower contacts 263-269 cm, 383-389 cm
end of core

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

Ship: Chain  Core No. 60 PC

Expedition 115  Station No. 104

Leg No. 6  Total Core Length 547 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | unfoss clay with det | 15 | 5 | tr | tr | 80 | | | | | | | | |
| 60 cm | unfoss clay with det | 25 | 3 | tr | tr | 72 | | | | | | | | |
| 160 cm | unfoss clay with det | 15 | 5 | | tr | 80 | | | | | | | | |
| 260 cm | unfoss clay | 10 | 3 | | | 87 | tr | | | | | | | |
| 360 cm | unfoss clay | 10 | 5 | | | 85 | tr | | | | | | | |
| 386 cm | unfoss clay with Mn micro | 10 | 20 | | | 70 | tr | | | | | | | |
| 460 cm | unfoss clay with Mn micro | 5 | 15 | | | 80 | | | | | | | | |
| 546 cm | unfoss clay | 10 | 10 | | | 80 | tr | | | | | | | |



VISUAL CORE DESCRIPTION  Page 1 of 1

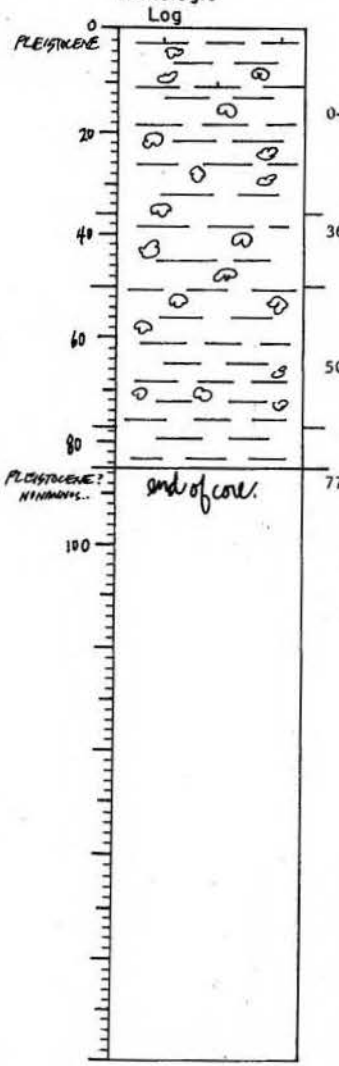
Ship CHAIN  Cruise 115  Leg 6  Sta. 104  Core No. 60PC

Total Length 85 cm.  Lat. 30°13.8'S  Long. 39°14.6'W  Depth 4310m corr

Core condition EXCELLENT  Date Described 2JAN75 by J.BRODA.

Physiographic location EASTERN VEMA CHANNEL.

Lithologic Log




Detailed Description

Note: due to sharp contacts and non-continuous lithology it appears evident that this pilot core represents a multiple penetration recovery. (1st penetration 0-50 cm, rebound penetration 50-85 cm).

0-36
HLY CALC CLAY GRADES TO UNFOSS CLAY
10YR 5/4 yellowish brown
extensive lithified mottles pale brown and grayish brown
firm moist lutite with lithified lumps
G mottled

36-50
UNFOSS CLAY
10YR 7/4 v. pale brown
extensive textural and color distinctive mottling, lt yellowish brown
firm compact lutite, sl silty
S, I

50-77
UNFOSS CLAY
10YR 5/4 yellowish brown
numerous lithified mottles throughout, pale brown
moist lutite not as firm as above
G mottled

77-85
UNFOSS CLAY
10YR 6/4 lt yellowish brown
extensive mottling at upper contact with yellowish brown
firm compact lutite
end of core

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

Ship: Chain  Core No. 60 PG

Expedition 115  Station No. 104

Leg No. 6  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 |
| 1 cm | hly calc clay | 3 | 1 | | | 75 | 6 | 15 | | | | | | |
| 49 cm | unfoss clay | 7 | tr | | | 93 | | | | | | | | |
| 55 cm | unfoss clay | 6 | 12 | | | 82 | | | | | | | | |
| 84 cm | unfoss clay | 12 | 3 | | | 85 | | | | | | | | |



VISUAL CORE DESCRIPTION



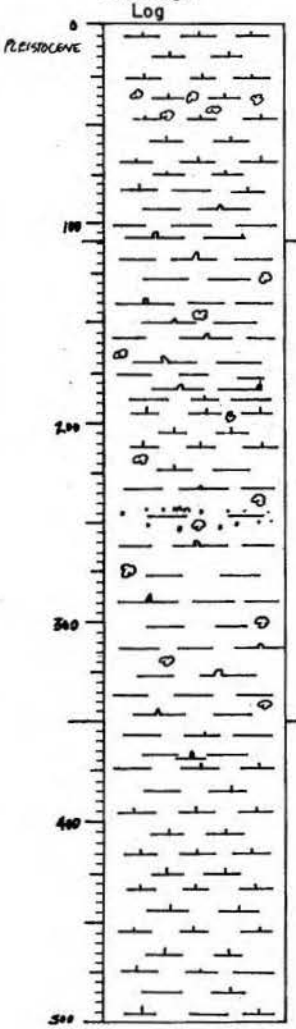
Ship CHAIN Cruise 115 Leg 6 Sta. 105 Core No. 61PC

Total Length 819 cm. Lat. 30°15.5'S Long. 39°05.8'W Depth 4181 corrm.

Core condition EXCELLENT Date Described 10 JAN 75 by J. BRODA.

Physiographic location EASTERN VEMA CHANNEL.

Lithologic Log




Detailed Description

0-108
CALC OOZE GRADES TO SL SILIC CLAY
10YR 5/3 brown
extensive v. pale brown mottling 37-42 cm, excellent v. pale brown burrow extending 24-30 cm
moist slick lutite, a few forams scattered 0-20 cm
two wide shadowy micro nodule(Mn) rich layers 86-90, 102-108 cm

108-350
SL SILIC CLAY GRADES TO CALC OOZE TO SL SILIC CLAY WITH MN MICRO TO SL SILIC CLAY
10YR 6/2 lt brownish gray
faint scattered grayish brown mottling throughout unit
moist slick lutite, homogeneous texture throughout
wide Mn micro nodule rich band 339-353 cm, scattered rusty flecks and splotches 260-290 cm

350-510
CALC OOZE GRADES TO HIGHLY CALC CLAY
10YR 6/3 pale brown grades to 5/3 brown
sl faint mottling scattered throughout, mostly lt yellowish brown and v. pale brown
sl darkening to brownish gray 435-450 cm; another distinct zone 463-471 cm and two faint 280-285 cm, 489-493 cm Mn-rich bands (laminations)

510-749
SL SILIC CLAY GRADES TO CALC OOZE
10YR 6/3 pale brown grades to 6/4 lt yellowish brown to 7/4 v. pale brown
extensive mottling 10YR 8/3 v. pale brown, 652-657 cm sl shadowy darkening 590-610 cm and faint brown mottling 660-749 cm
scattered forams appear at 690 cm and to 745 cm
S

749-760
UNFOSS CLAY/MN MICRO
10YR 3/1 v. dk gray
some marbling with pale brown throughout
sl Mn rich lutite with scattered lithified flecks
S, H

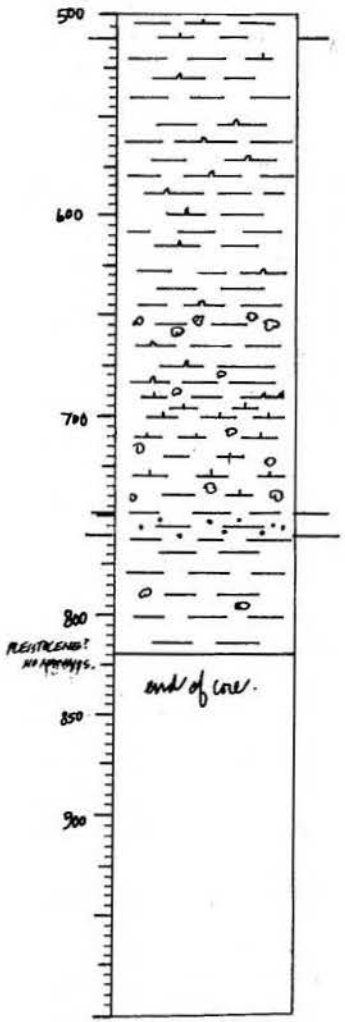
760-819
UNFOSS CLAY
2.5Y 5/4 lt olive brown grades to 2.5Y 5/2 grayish brown
sl lt gray mottling 785-800 cm
stiff compact lutite at ( 2 cm wide) upper contact, firm slick lutite from there to base
two thin well lithified, almost dry, concave-upward lams 2 mm; 780 and 795 cm
end of core

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 105 Core No. 61PC

Lithologic Log




Detailed Description



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

Ship: Chain Core No. 61 PC

Expedition 115 Station No. 105

Leg No. 6 Total Core Length 819 cm

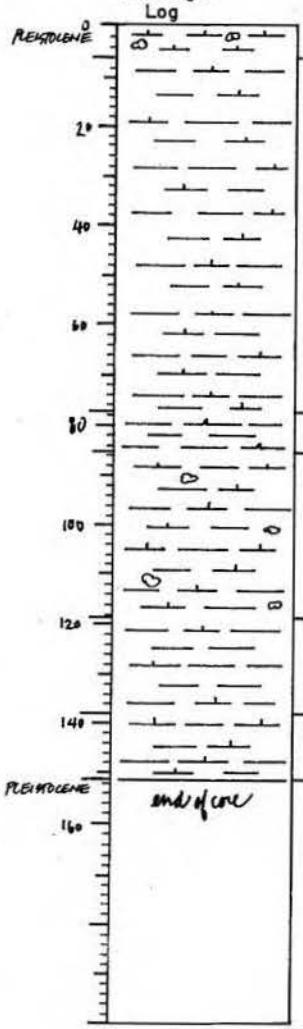
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 2 | tr | | | 35 | 15 | 45 | | tr | 3 | tr | | tr |
| 90 cm | sl silic clay | 5 | 10 | | 4 | 78 | | | | | tr | 2 | | 1 |
| 200 cm | calc ooze | 2 | | | 2 | 48 | 7 | 35 | | | 2 | 3 | | 1 |
| 245 cm | sl silic clay with Mn micro | 3 | 15 | | 1 | 79 | | | | | | 2 | | tr |
| 300 cm | sl silic clay | 2 | tr | | 2 | 94 | | | | | tr | 1 | | 1 |
| 400 cm | calc ooze | 3 | | | 1 | 44 | 10 | 40 | | tr | 2 | tr | | tr |
| 500 cm | hly calc clay | tr | 10 | | tr | 70 | | 20 | | | | tr | | tr |
| 600 cm | sl silic clay | 3 | tr | | tr | 94 | | | | tr | 1 | 2 | | tr |
| 700 cm | calc ooze | 3 | tr | | 1 | 46 | 3 | 45 | | | 2 | tr | | |
| 752 cm | unfoss clay/ Mn micro | 2 | 48 | | | 50 | | | | | | | | |
| 818 cm | unfoss clay | 5 | tr | | | 95 | | tr | | | tr | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 105 Core No. 61PG
Total Length 151 cm. Lat. 30° 15.5'S Long. 39° 05.8'W Depth 4181 m corr
Core condition EXCELLENT Date Described 13 JAN 75 by J. BRODA.
Physiographic location EASTERN VEMA CHANNEL

Lithologic Log




### Detailed Description

Note: Due to artificial sharp contacts and repetitive lithology, it appears that this pilot core represents a multiple penetration recovery: 1st, 0-77 cm; 2nd, 77-118.5 cm; 3rd, 118.5-151 cm. Also the very surface sediment has been lost (pushed) out of the top of the corer and neither of the two repenetrations have recovered this surface interval. This resulted from resistance offered by the mud already in the liner before repenetration. It took some persuasion to get the initial sample to move and allow entry of new sediments, by which time the corer was already below the sediment surface.

0-6
CALC OOZE
10YR 6/4 lt yellowish brown
common v. pale brown mottling
smooth moist lutite
S mottled

6-77
CALC CLAY
10YR 5/2 grayish brown grades to 6/3 pale brown
faint bands of brown mottling
slick lutite
hazy bands of Mn micro nodule rich sediment 6-18, 41-58 cm
S, I

77-85
SL SILIC CLAY
10YR 6/4 lt yellowish brown
brown sl mottling and marbling
smooth lutite
G

85-118.5
HLY CALC CLAY
10YR 5/2 grayish brown grades to 6/3 pale brown
v. sl faint brown bands and mottling
smooth lutite
2 cm band of Mn nodule rich lutite 105-107
S I

118.5-138
SL CALC CLAY
10YR 6/4 lt yellowish brown
faint inclined banding (brown) and mottling
smooth lutite
G

138-151
HLY CALC CLAY
10YR 5/2 grayish
faint grayish brown banding found sl throughout
slick sl silty lutite
end of core



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

Ship: Chain Core No. 61 PG
Expedition 115 Station No. 105
Leg No. 6 Total Core Length 151 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 5 | 3 | | | 33 | 5 | 50 | | 1 | 3 | tr | | tr |
| 77 cm | calc clay | 5 | 2 | | | 82 | | 7 | | | 2 | 1 | | 1 |
| 78 cm | sl silic clay | 5 | tr | | 5 | 86 | | | | | tr | 2 | | 2 |
| 117.5 cm | hly calc clay | 2 | tr | | 5 | 66 | tr | 20 | | | 3 | 2 | | 2 |
| 118.5 cm | sl calc clay | 5 | tr | | 2 | 86 | tr | 2 | | tr | 2 | 1 | | 2 |
| 150 cm | hly calc clay | 2 | tr | | 5 | 73 | tr | 15 | | | 2 | 2 | | 1 |

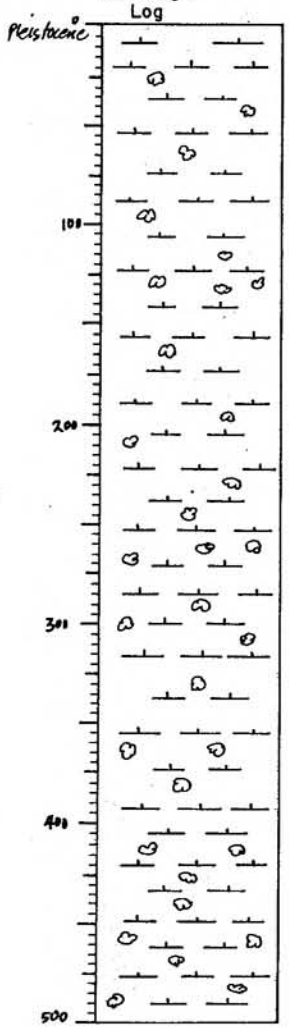
380

VISUAL CORE DESCRIPTION

Page 1 of 2

Ship CHN Cruise 115 Leg 6 Sta. 106 Core No. 62PC
Total Length 712 cm. Lat. 30°24.6'S Long. 38°58.4'W Depth 4065 m. corr.
Core condition EXCELLENT Date Described 13JAN75 by J. BRODA
Physiographic location EASTERN VEMA CHANNEL.

Lithologic Log




Detailed Description

0-565
CALC OOZE
10YR 6/4 lt yellowish brown grades to 5/4 brown
varying degrees; sl but mostly common mottling throughout brown and v. pale brown with scattered black flecks
forams abund. 0-300 cm; common 300-565 cm, firm compact lutite
S

565-573
SL CALC CLAY
7.5YR 5/4 brown
speckles and pockets of v. dk gray (Mn)
totally lithified pavement perfectly penetrated by piston core
2mm Mn pavement in upper surface of lithified plug
S irregular

573-591
UNFOSS CLAY
10YR 4/3 dk brown
two vertical fans of drier 10YR 4/2 dk grayish brown lutite (disturbed)
smooth slick lutite
some signs of disturbance (flow in) 573-579 cm no doubt due to resistance offered by above plug. undisturbed (interval) recovery continues 579-712 cm
S

591-712
UNFOSS CLAY
7.5YR 5/4 brown
sl dk gray mottles decreasing with depth disappearing at 620 cm
firm compact lutite with a silty texture
Mn-rich shadowing at upper contact of unit
end of core

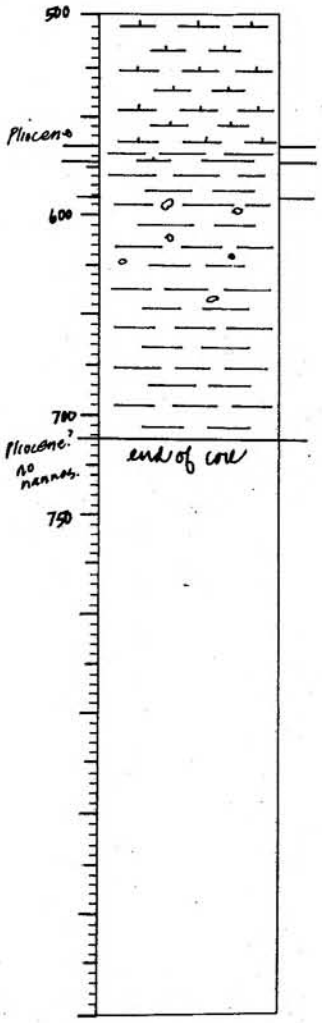
381

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship CHAIN Cruise 115 Leg 6 Sta. 106 Core No. 62PC

Lithologic Log




Detailed Description

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

Ship: Chain  Core No. 62 PC

Expedition 115  Station No. 106

Leg No. 6  Total Core Length 712 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 5 | tr | | | 21 | 15 | 55 | | 1 | 3 | tr | | |
| 100 cm | calc ooze | 2 | 4 | | | 9 | 5 | 75 | | | 5 | tr | | |
| 200 cm | calc ooze | 3 | 3 | | | 10 | 10 | 70 | | 1 | 3 | | | |
| 300 cm | calc ooze | tr | 5 | | | 25 | 5 | 60 | | 3 | 2 | | | |
| 400 cm | calc ooze | 1 | 3 | | | 11 | 5 | 65 | | 12 | 3 | | | |
| 500 cm | calc ooze | tr | 1 | | | 11 | 3 | 65 | | 15 | 5 | | | |
| 564 cm | calc ooze | tr | 3 | | | 12 | 2 | 60 | | 20 | 3 | | | |
| 566 cm | sl calc clay | 6 | | | 1 | 89 | | tr | | tr | 4 | tr | | |
| 585 cm | unfoss clay | 8 | 8 | tr | | 84 | | tr | | | | | | |
| 650 cm | unfoss clay | 5 | 3 | 8 | 82 | | | | | | 2 | | | |
| 711 cm | unfoss clay | 5 | 2 | 12 | | 80 | | | | | 1 | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

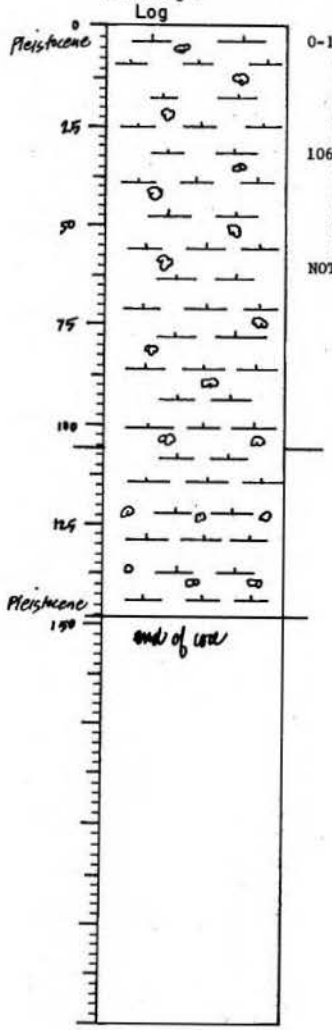
Ship CHAIN Cruise 115 Leg 6 Sta. 106 Core No. 62PG

Total Length 148 cm. Lat. 30°24.6'S Long. 38°58.4'W Depth 4065m.corr

Core condition EXCELLENT Date Described 13JAN65 by J.BRODA

Physiographic location EASTERN VEMA CHANNEL

Lithologic Log




Detailed Description

0-106
CALC OOZE
10YR 6/4 lt yellowish brown
common lt brownish gray and v. pale brown mottling
abund. forams throughout, moist lutite
S, H

106-148
CALC OOZE
10YR 6/3 pale brown grades to 5/4 brown
common pale brown mottling 120-125 cm, 135-148 cm
abund. forams in moist silty lutite
end of core

NOTE: Because of the nature of the contact mentioned above, and the similarity of sequences of lithologic features in this core, repenetration (pilot rebound) is suspected; 1st penetration, 0-106 cm - in this case some of the near surface sediment has been shot out the top of the corer and lost; 2nd penetration, 106-148 cm - in this section the top 30 cm of sediment is preserved

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

Ship: Chain  Core No. 62 PG

Expedition 115  Station No. 106

Leg No. 6  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 |
| 1 cm | calc ooze | tr | 1 | | tr | 14 | 15 | 65 | | tr | 5 | | | tr |
| 105 cm | calc ooze | tr | 1 | | tr | 21 | 10 | 60 | | 3 | 5 | | | |
| 107 cm | calc ooze | tr | 1 | | | 27 | 20 | 50 | | tr | 2 | tr | | |
| 147 cm | calc ooze | 1 | 1 | | | 22 | 18 | 50 | | tr | 8 | | | |



VISUAL CORE DESCRIPTION



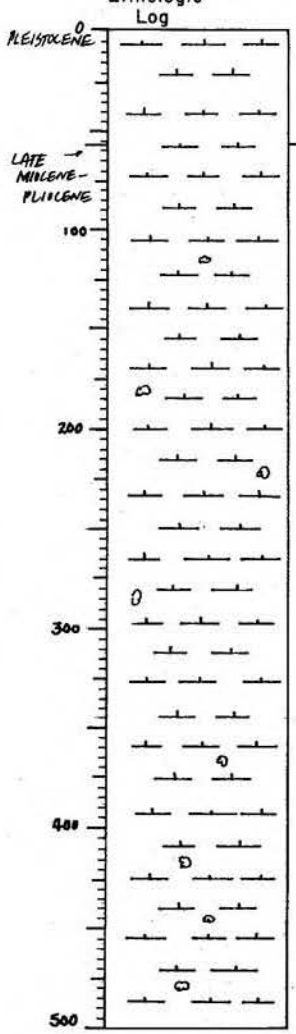
Ship CHAIN Cruise 115 Leg 6 Sta. 108 Core No. 64PC

Total Length 847 cm. Lat. 30°00.0'S Long. 35°33.8'W Depth 2100 m. corr.

Core condition EXCELLENT Date Described 17JAN75 by J. BRODA

Physiographic location NORTH FLANK OF RIO GRANDE RISE

Lithologic Log




Detailed Description

0-56
CALC OOZE
10YR 7/4 v. pale brown
extremely abund. forams (sand)
0-9 cm in a small section of liner appears disturbed and washed. also the interval 9-30 cm seems somewhat disoriented and reworked by washing
S sl concave upward

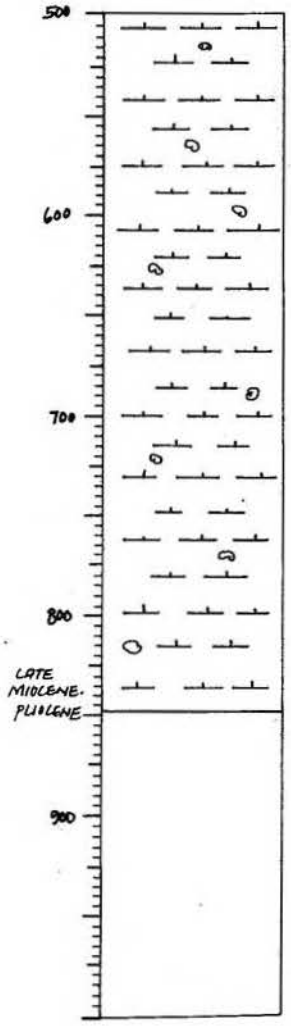
56-847
CALC OOZE
10YR 7/3 v. pale brown and 7/4 v. pale brown. color varies overall between these two colors
faint scattered mottles of colors above
v. abund to extremely abund. forams throughout. firm compact lutite
break in core 837 cm. flow in suspected here to bottom of core
end of core

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 108 Core No. 64PC

Lithologic Log




Detailed Description



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

Ship: Chain Core No. 64 PC

Expedition 115 Station No. 108

Leg No. 6 Total Core Length 847 cm

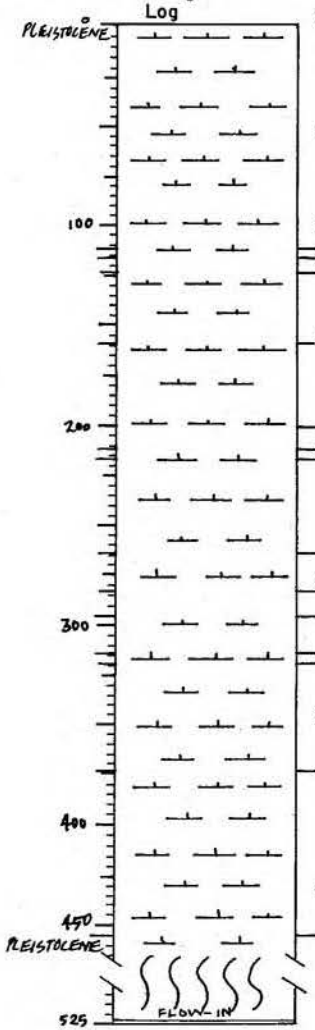
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | | | tr | 20 | 20 | 55 | | 2 | 3 | tr | | |
| 100 cm | calc ooze | 1 | | | | 14 | 13 | 60 | | 12 | tr | tr | | |
| 200 cm | calc ooze | 2 | | | | 30 | 12 | 40 | | 10 | 6 | tr | | |
| 300 cm | calc ooze | tr | | | | 25 | 10 | 40 | | 10 | 15 | | | |
| 400 cm | calc ooze | tr | | | | 20 | 8 | 50 | | 10 | 12 | | | |
| 500 cm | calc ooze | 1 | | | | 16 | 8 | 50 | | 15 | 10 | | | |
| 600 cm | calc ooze | 2 | | | | 5 | 8 | 60 | | 15 | 10 | | | |
| 700 cm | calc ooze | 1 | | | | 23 | 6 | 50 | | 12 | 8 | | | |
| 800 cm | calc ooze | tr | | | tr | 12 | 8 | 60 | | 15 | 5 | | | |
| 846 cm | calc ooze | tr | | | tr | 10 | 10 | 60 | | 15 | 5 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 109 Core No. 65PC
Total Length 523 cm. Lat. 30°00.3'S Long. 35°31.5'W Depth 2343 m
Core condition EXCELLENT Date Described 22 Jan. 75 by J. Broda
Physiographic location NORTH FLANK RIO GRANDE RISE.

Lithologic Log




Detailed Description

0-112
CALC OOZE
10YR 7/4 v. pale brown
foram sand with scattered pteropod fragments
homogeneous throughout
S somewhat irregular but horizontal

112-116
CALC OOZE
10YR 7/2 lt gray
silty lutite, v. abund. forams
G

116-123
CALC OOZE
10YR 7/4 v. pale brown
silty lutite, increasing forams with depth in unit
graded bedding
S, H

123-158
CALC OOZE
10YR 7/2 lt gray grades to 7/3 v. pale brown
sl lt gray mottling 140-146 cm
stiff lutite. abund. forams and scattered pteropod fragments
S, H

158-200
CALC OOZE
10YR 8/3 v. pale brown to 8/1 white to 7/4 v. pale brown
firm moist lutite, abund. forams
sharp contacts between color units 158-171 cm v. pale brown, 171-192 cm white, 192-200 cm v. pale brown
S

200-211
CALC OOZE
10YR 7/3 v. pale brown, 5Y 7/4 pale yellow
total mixing and marbling of colors above
v. stiff lithified lump of compact lutite
plug, somewhat disturbed in recovery
S, I

211-217
CALC OOZE
10YR 7/4 v. pale brown
pteropod foram sand with pockets and lumps of lutite scattered with in
unit appears disturbed and somewhat disoriented. 215-217 cm, cemented calc nodules, fine grained, occasional forams 1.5 cm diameter
I, disturbed

217-264
CALC OOZE
10YR 7/4 v. pale brown grades to 8/1 white to 8/4 v. pale brown
stiff plastic lutite, somewhat silty, scattered forams
another cemented calc nodule 1.5 cm diameter
S, H

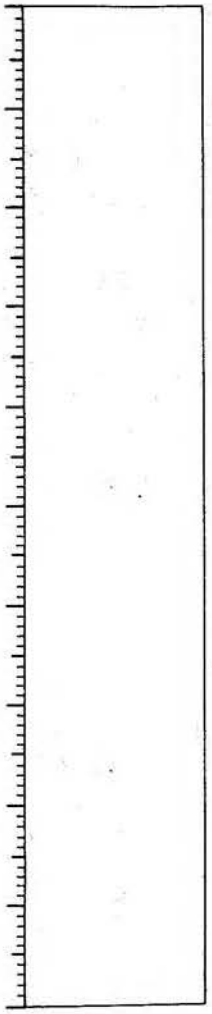


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 109 Core No. 65PC

Lithologic Log



Detailed Description

264-283
CALC OOZE
10YR 6/3 pale brown
foram sand with scattered pteropods
S inclined 10° and concave upward

283-295
CALC OOZE
10YR 6/4 lt yellowish brown
firm compact silty lutite with scattered forams
S concave upward

295-314
CALC OOZE
10YR 7/4 v. pale brown
foram sand with scattered pteropods and abund. small lumps of lutite included
S convex upward

314-319
CALC OOZE
7.5Y 8/2 white
firm lutite less silty than above units
S,H

319-373
CALC OOZE
10YR 7/4 v. pale brown
foram sand with rare pteropods and few scattered lutite lumps
sand appears washed and disturbed 319-330 cm
S, H

373-455
CALC OOZE
10YR 8/4 v. pale brown and 8/1 white
some marbling and intermixing of colors above throughout unit
stiff plastic lutite sl silty in darker zones
G

455-523
FLOW IN
end of core

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

Ship: Chain  Core No. 65 PC

Expedition 115  Station No. 109

Leg No. 6  Total Core Length 523 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | tr | | | | 3 | 55 | 35 | 2 | | 5 | | | |
| 111 cm | calc ooze | tr | | | | 19 | 8 | 70 | tr | tr | 3 | | | |
| 201 cm | calc ooze | tr | | tr | | 30 | 3 | 65 | | | 2 | | | |
| calc nodule 214 cm | calc ooze | | | | | 15 | | | | | 85 | | | |
| 245 cm | calc ooze | 1 | | | | 2 | 15 | 80 | tr | | 2 | | | |
| 290 cm | calc ooze | 1 | | | | 2 | 10 | 84 | | | 3 | | | |
| 317 cm | calc ooze | 1 | | | | 6 | 3 | 50 | | | 40 | | | |
| 400 cm | calc ooze | tr | | | | 10 | 7 | 80 | tr | | 3 | | | |
| 450 cm | calc ooze | | | | | 10 | 7 | 80 | tr | | 3 | | | |
| 522 cm | calc ooze | | | | | 10 | 7 | 80 | tr | | 3 | | | |

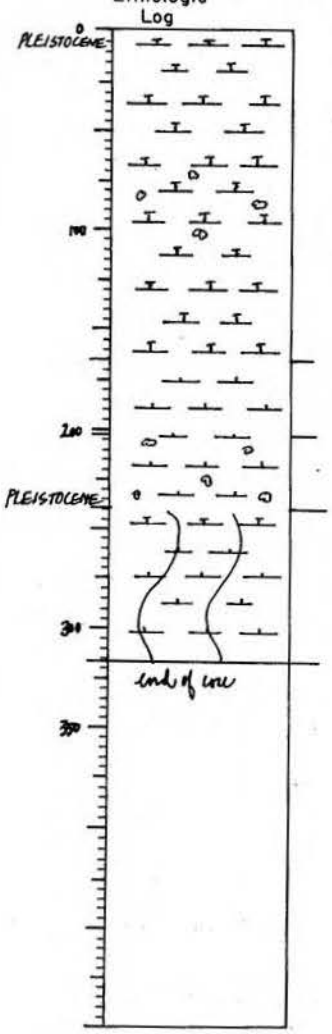


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 110 Core No. 66PC
Total Length 316 cm. Lat. 29°59.8'S Long. 35°34.4'W Depth 2158 m.corr.
Core condition EXCELLENT Date Described 22 Jan 75 by J. Brada.
Physiographic location NORTH FLANK RIO GRANDE RISE.

Lithologic Log




Detailed Description

0-165
CALC OOZE
10YR 6/4 lt yellowish brown
occasional white mottles found 70-120 cm
foram sand
G

165-202
CALC OOZE
10YR 8/2 white
extremely abund. forams in stiff compact lutite
G

202-239
CALC OOZE
10YR 7/4 v. pale brown grades to 8/2 white
some common mottling of colors above
extremely abund. forams in stiff compact lutite
more lithifed and stiff layer 233-239 cm, appears clearly as a result of cracking above and below
G

239-316
CALC OOZE
10YR 6/4 lt yellowish brown
thin whispy inclusion of 10YR 7/4 v. pale brown
foram sand
some disturbance (flow in) suspected here as a result of the lithified plug above, and the finer grained, lighter lutite inclusions scattered throughout the sand.
end of core

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

Ship: Chain  Core No. 66 PC

Expedition 115  Station No. 110

Leg No. 6  Total Core Length 316 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | | | | | 5 | 75 | 20 | tr | | | | | |
| 100 cm | calc ooze | | | | | 10 | 70 | 20 | | | | | | |
| 200 cm | nanno ooze | | | | | 5 | 15 | 80 | | | | | | |
| 235 cm | calc ooze | tr | | | | 15 | 20 | 60 | | 5 | | | | |
| 315 cm | calc ooze | | | | | 8 | 55 | 35 | | 2 | | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

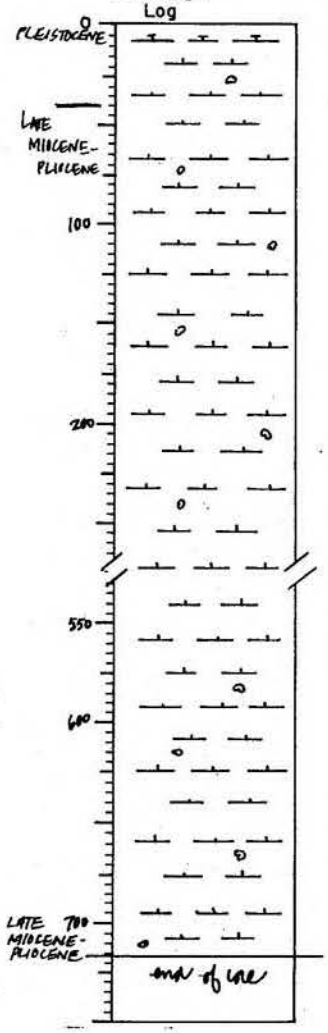
Ship CHAIN Cruise 115 Leg 6 Sta. 111 Core No. 67PC

Total Length 716 cm. Lat. 29°57.8' S Long. 35°33.8'W Depth 2195 m.corr

Core condition EXCELLENT Date Described 23 Jun 75 by J. Broda

Physiographic location NORTH FLANK OF RIO GRANDE RISE

Lithologic Log




Detailed Description

0-716
CALC OOZE
10YR 8/4 v. pale brown grades to 10YR 7/4 v. pale brown to 8/2 white
occasional sl white and v. pale brown mottles
foram sand 0-11 cm; extremely abund. forams 11-125 cm, gradually decreasing to abund. then scattered at bottom of core, firm compact sl silty lutite
end of core

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

Ship: Chain  Core No. 111

Expedition 115  Station No. 67 PC

Leg No. 6  Total Core Length 716 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | | | | | 8 | 35 | 50 | tr | 5 | 2 | | | |
| 100 cm | calc ooze | tr | | | | 4 | 15 | 70 | | 8 | 3 | | | |
| 200 cm | calc ooze | tr | | | | 8 | 10 | 65 | tr | 12 | 5 | | | |
| 300 cm | calc ooze | tr | | | | 8 | 15 | 62 | tr | 12 | 3 | | | |
| 400 cm | calc ooze | tr | | | | 15 | 10 | 60 | tr | 10 | 5 | | | |
| 500 cm | calc ooze | tr | | | | 5 | 10 | 67 | | 15 | 3 | | | |
| 600 cm | calc ooze | tr | | | | 5 | 10 | 60 | | 15 | 10 | | | |
| 715 cm | calc ooze | tr | | | | 10 | 8 | 67 | | 10 | 5 | | | |

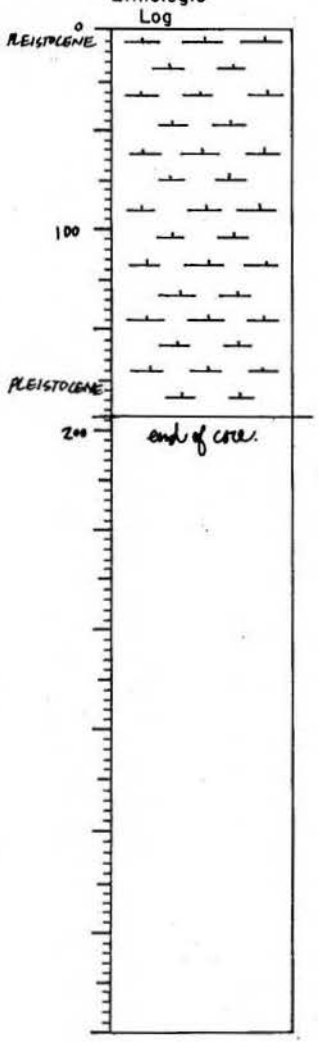


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 112 Core No. 68PC
Total Length 193 cm. Lat. 29°37.9°S Long. 33°33.6°W Depth 2192 m corr.
Core condition EXCELLENT Date Described 23 Jan 75 by J. Broda
Physiographic location RIO GRANDE RISE.

Lithologic Log




Detailed Description

0-193
CALC OOZE
10YR 8/2 white
•1 faint whiter mottles scattered throughout
0-10 cm somewhat washed foram sand•10-193 cm, stiff compact lutite, with abund. forams
end of core

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

Ship: Chain  Core No. 74 PC

Expedition 115  Station No. 119

Leg No. 6  Total Core Length 736 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | tr | | | | 7 | 45 | 45 | | | 3 | | | |
| 100 cm | calc ooze | tr | | | | 10 | 30 | 55 | | tr | 5 | | | |
| 200 cm | calc ooze | tr | | | | 10 | 20 | 60 | | | 10 | | | |
| 300 cm | calc ooze | tr | | | | 5 | 30 | 45 | | | 20 | | | |
| 400 cm | calc ooze | | | | | 10 | 20 | 60 | | tr | 10 | | | |
| 500 cm | calc ooze | tr | | | | 10 | 30 | 43 | | 2 | 15 | | | |
| 600 cm | calc ooze | tr | | | | 20 | 10 | 50 | | 10 | 10 | | | |
| 700 cm | calc ooze | tr | | | | 10 | 20 | 45 | | 5 | 20 | | | |
| 735 cm | calc ooze | tr | | | | 12 | 15 | 60 | | 3 | 10 | | | |

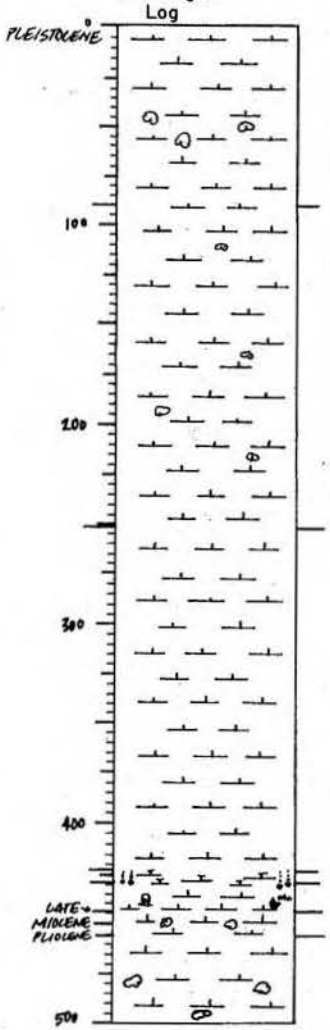


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 120 Core No. 75PC
Total Length 686 cm. Lat. 29°58.6'S Long. 35°32.9'W Depth 2260 m corr
Core condition EXCELLENT Date Described 27 Jan 75 by J Broda
Physiographic location NORTH FLANK OF RIO GRANDE RISE

Lithologic Log




Detailed Description

0-90
CALC OOZE
10YR 6/4 lt yellowish brown
occasional large white mottles found 40-60 cm
extremely abund. forams in firm silty lutite
0-4 cm washed and disturbed
G textural

90-252
CALC OOZE
10YR 6/4 lt yellowish brown grades slowly to 7/4 v. pale brown
a few scattered faint white mottles
firm sl silty lutite, scattered forams; a few black flecks
G

252-423
CALC OOZE
10YR 8/2 white grades to 8/4 v. pale brown
sl white mottles and occasional black streaks and flecks
v. plastic sl silty lutite
S textural

423-429
CALC OOZE
10YR 8/4 v. pale brown
foram sand, somewhat graded
graded bedding
v. S

429-444
CALC OOZE
10YR 8/2 white
matrix is firm sl silty lutite with scattered forams
Note: a remarkable combination of elements exist in this unit pelecypod shell fragments, large benthic forams, a fragment of v. brittle Mn pavement, a pyritized burrow, large cemented eroded foram "nodules", and scattered lumps of reworked Oligocene forams and Eocene (?) nannos
G

444-456
CALC OOZE
10YR 8/4 v. pale brown
extensive white mottling at unit basal contact
firm sl silty lutite, scattered forams
S mottled

456-582
CALC OOZE
10YR 8/1 white grades to 8/2 white
common faint white mottles throughout
moist smooth lutite
S, H

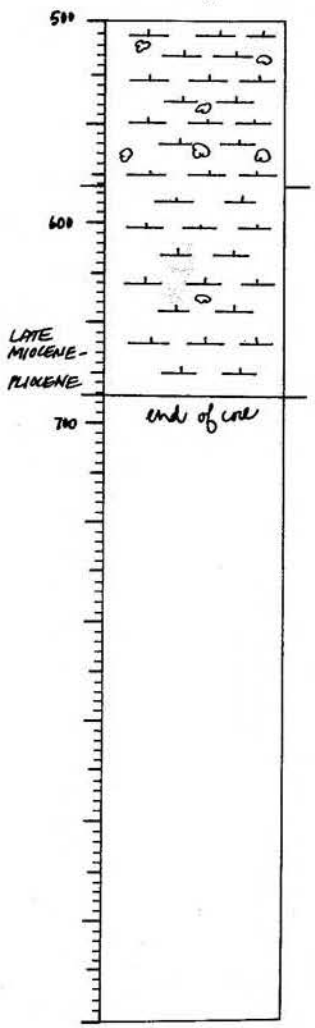
582-686
CALC OOZE
10YR 6/4 lt yellowish brown
v. sl v. pale brown mottling
firm sl silty lutite, more lithified 582-589 cm
end of core

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 120 Core No. 75PC

Lithologic Log




Detailed Description



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

Ship: Chain Core No. 75 PC

Expedition 115 Station No. 120

Leg No. 6 Total Core Length 686 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | tr | | | 10 | 55 | 30 | | tr | 4 | | | |
| 100 cm | calc ooze | tr | | | tr | 5 | 40 | 50 | | tr | 5 | | | |
| 200 cm | calc ooze | tr | | | | 20 | 15 | 63 | | | 2 | | | |
| 270 cm | nanno ooze | | | | | 1 | 9 | 90 | | | tr | | | |
| 370 cm | nanno ooze | 1 | | | | 7 | 5 | 85 | | | 2 | | | |
| 426 cm | calc ooze | tr | | | | 13 | 55 | 30 | | tr | 2 | | | |
| 432 cm | nanno ooze | tr | | | | 12 | 3 | 85 | | tr | tr | | | |
| 440 cm* | calc ooze | 2 | | | tr | 25 | 5 | 50 | | 3 | 15 | | | |
| 442 cm | calc ooze | 2 | | | | 20 | 5 | 50 | | 3 | 20 | | | |
| 470 cm | calc ooze | tr | | | | 7 | 5 | 70 | | 15 | 3 | | | |
| 570 cm | calc ooze | tr | | | | 7 | 5 | 50 | | 35 | 3 | | | |
| 590 cm | calc ooze | tr | | | | 7 | 5 | 50 | | 30 | 8 | | | |
| 685 cm | calc ooze | tr | | | | 7 | 5 | 50 | | 30 | 8 | | | |

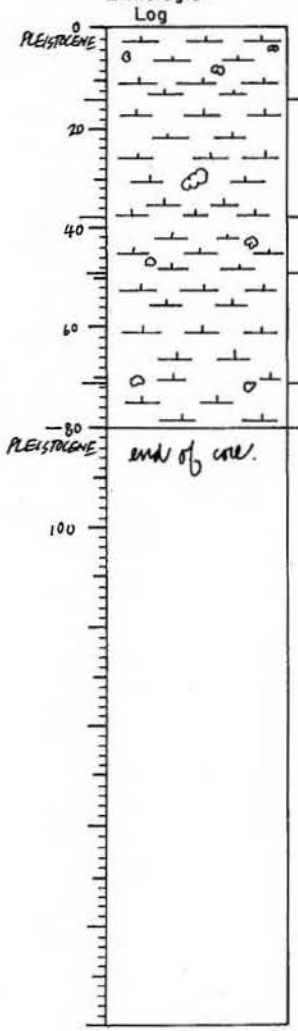
* reworked upper Eocene (?)

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 120 Core No. 75PG
Total Length 80 cm. Lat. 29°58.6'S Long. 35°32.9'W Depth 2260 m.corr.
Core condition EXCELLENT. Date Described 28 Jan. 75 by J. Blake.
Physiographic location NORTH FLANK ... RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-14
CALC OOZE
10YR 7/4 v. pale brown
sl faint lt gray and brown mottling at unit basal contact
abund. forams throughout, silty lutite
G mottled

14-38
CALC OOZE
10YR 6/4 lt yellowish brown
one large concentric v. pale brown mottle at 32 cm
scattered forams in firm sl silty lutite
S concave upward

38-49
CALC OOZE
10YR 7/4 v. pale brown
sl faint lt gray mottling 38-41 cm
abund. forams in silty lutite
G sl mottled

49-71
CALC OOZE
10YR 6/4 lt yellowish brown
sl v. pale brown mottling at unit basal contact
scattered foram in sl silty lutite
G mottled

71-80
CALC OOZE
10YR 7/4 v. pale brown
faint lt yellowish brown mottling found sl throughout
abund. forams in silty lutite
end of core

Note: Due to similiar combinations of lithologies found in the sample it is suspected to be an example of a multiple penetration (wire rebound) pilot core. 1st penetration 0-38 cm, repenetration 38-80 cm



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

Ship: Chain Core No. 75 PG
Expedition 115 Station No. 120
Leg No. 6 Total Core Length 80 cm

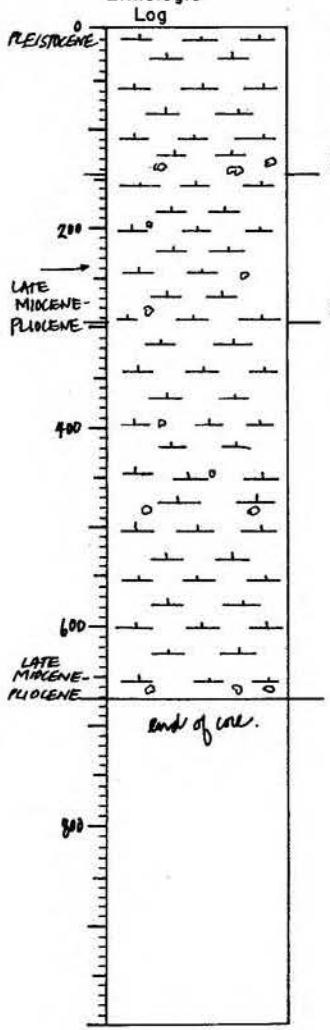
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | tr | | | 8 | 40 | 50 | | | 1 | | | |
| 23 cm | calc ooze | 3 | 1 | | | 12 | 13 | 65 | | | 6 | | | |
| 56 cm | calc ooze | 1 | | | | 15 | 19 | 60 | | | 5 | | | |
| 40 cm | calc ooze | 2 | | | | 7 | 40 | 50 | | | 1 | | | |
| 79 cm | calc ooze | 1 | | | | 15 | 20 | 60 | | | 4 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 121 Core No. 76PC
Total Length 671 cm. Lat. 29°56.2'S Long. 35°33.0'W Depth 2315m. corr.
Core condition EXCELLENT Date Described 29 Jan 75 by J. Orsa.
Physiographic location NORTH FLANK, RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-145
CALC OOZE
10YR 6/4 lt yellowish brown
common v. pale brown mottling 0-40 cm, 132-145 cm
v. abund. forams 0-40 cm, and 90-145 cm, scattered elsewhere in sl silty lutite
G mottled

145-295
CALC OOZE
10YR 7/4 v. pale brown and 8/2 white
sl white mottling found occasionally throughout
v. abund. forams throughout stiff compact silty lutite
color grades in two cycles from v. pale brown to white then v. pale brown, dker zones 185-205cm, 255-265 cm, 280-295 cm
G

295-671
CALC OOZE
10YR 8/2 white
occasional v. white mottles 383-490 cm and 660-671
firm plastic lutite with forams abund. 383-500 cm; scattered elsewhere throughout unit
end of core



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

Ship: Chain Core No. 76 PC
Expedition 115 Station No. 121
Leg No. 6 Total Core Length 671 cm

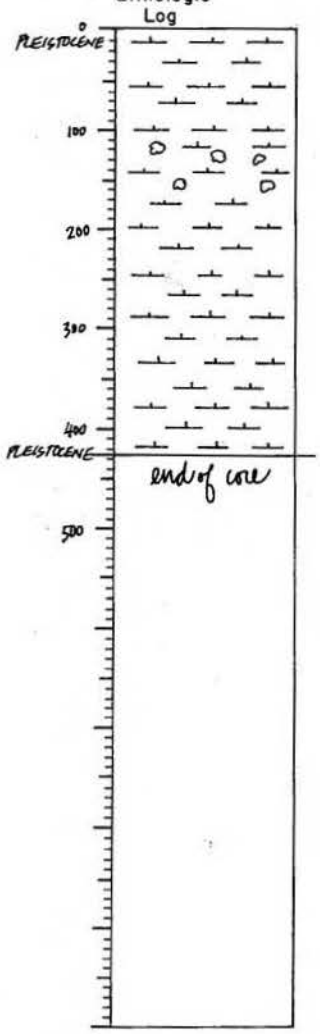
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | | | | 10 | 30 | 55 | | | 5 | | | |
| 100 cm | calc ooze | tr | 2 | | tr | 13 | 30 | 50 | | | 5 | | | |
| 200 cm | calc ooze | 1 | | | tr | 3 | 25 | 65 | | tr | 6 | | | |
| 300 cm | calc ooze | tr | | | | 10 | 15 | 62 | | 5 | 8 | | | |
| 400 cm | calc ooze | 2 | | | | 10 | 15 | 57 | | 10 | 6 | | | |
| 500 cm | calc ooze | tr | | | | 12 | 15 | 60 | | 8 | 5 | | | |
| 600 cm | calc ooze | tr | | | | 15 | 20 | 56 | | 5 | 4 | | | |
| 670 cm | calc ooze | tr | | | | 15 | 10 | 61 | | 10 | 4 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 122 Core No. 77PC
Total Length 423 cm. Lat. 29°57.7'S Long. 35°34.7'W Depth 2330 m.corr.
Core condition EXCELLENT. Date Described 29 Jan 75 by J. Breda.
Physiographic location NORTH FLANK, RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-423
CALC OOZE
10YR 6/4 lt yellowish brown grades to 7/4 v. pale brown
large white mottles common 107-167.cm
foram sand grades to firm silty lutite with extremely abund. forams
end of core



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

Ship: Chain Core No. 77 PC
Expedition 115 Station No. 122
Leg No. 6 Total Core Length 423 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | foram sand | 2 | tr | | | 3 | 75 | 18 | | | 2 | | | |
| 100 cm | calc ooze | 2 | tr | | | 10 | 55 | 30 | | | 3 | | | |
| 200 cm | foram sand | 2 | | | | 3 | 75 | 18 | | | 2 | | | |
| 300 cm | calc ooze | tr | tr | | | 4 | 65 | 30 | | tr | 1 | | | |
| 422 cm | calc ooze | tr | tr | | | 3 | 60 | 35 | | tr | 2 | | | |

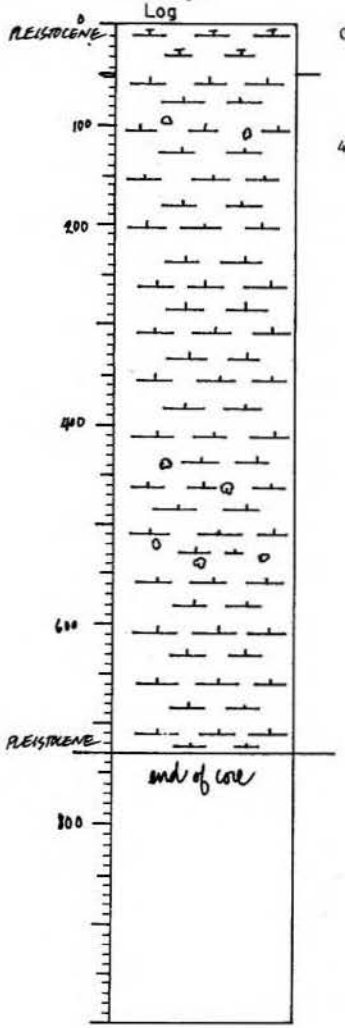
418

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 123 Core No. 78PC
Total Length 730 cm. Lat. 29°57.1'S Long. 35°33.8'W Depth 2233 m-corr.
Core condition EXCELLENT Date Described 30 Jan 75 by J. BRODA.
Physiographic location NORTH FLANK: RIO GRANDE RISE.

Lithologic Log




Detailed Description

0-44
CALC OOZE
10YR 7/4 v. pale brown
foram sand
top 15 cm disturbed and washed
G
44-730
CALC OOZE
10YR 7/4 v. pale brown grades intermittently and irregularly throughout with 10YR 8/2 white
faint white mottling scattered, 90-120 cm, 430-570 cm
firm silty lutite with extremely abund. forams throughout
end of core

419

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

Ship: Chain Core No. 78 PC
Expedition 115 Station No. 123
Leg No. 6 Total Core Length 730 cm

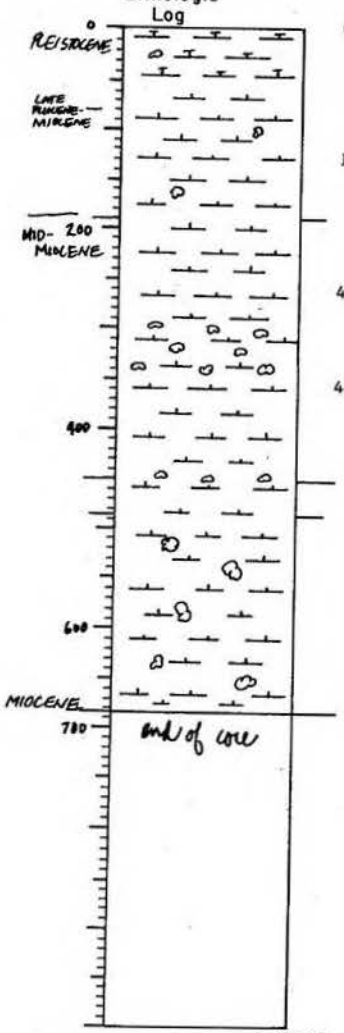
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | tr | | | 17 | 35 | 45 | | tr | 2 | | | tr |
| 100 cm | calc ooze | tr | tr | | | 20 | 8 | 65 | | tr | 7 | | | |
| 200 cm | calc ooze | | tr | | | 8 | 30 | 60 | | tr | 2 | | | |
| 300 cm | calc ooze | 2 | 1 | | | 20 | 15 | 60 | | tr | 3 | | | |
| 400 cm | calc ooze | tr | 1 | | | 9 | 25 | 60 | | tr | 5 | | | |
| 500 cm | calc ooze | 1 | 1 | | | 10 | 10 | 76 | | tr | 2 | | | |
| 600 cm | calc ooze | tr | | | | 10 | 8 | 80 | | 2 | tr | | | |
| 729 cm | calc ooze | tr | tr | | | 8 | 12 | 70 | | 2 | 8 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 124 Core No. 79PC
Total Length 682 cm. Lat. 29°57.6'S Long. 35°33.7'W Depth 2214 m.corr.
Core condition EXCELLENT Date Described 24Feb75 by J.Breda.
Physiographic location NORTH FLANK: RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-190
CALC OOZE
10YR 7/4 v. pale brown
v. light, v. faint white mottles scattered throughout
foram sand 0-40 cm grades to silty lutite with v. abund. forams
G

190-450
CALC OOZE
10YR 6/4 lt yellowish brown
abund. v. pale brown mottling 290-340 cm, 440-450 cm, v. small pale brown mottles scattered slightly otherwise
abund. forams in firm slightly silty lutite
S mottled

450-485
CALC OOZE
10YR 8/1 white
abund. forams in firm silty lutite
S concave upward

485-682
CALC OOZE
10YR 7/4 v. pale brown to 8/4 v. pale brown
large white mottles found commonly throughout, varying hues of two colors above alternating throughout
firm compact lutite with abund. forams
end of core



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

Ship: Chain Core No. 79 PC
Expedition 115 Station No. 124
Leg No. 6 Total Core Length 682 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | Calc ooze | tr | tr | | | 5 | 75 | 15 | | 3 | 2 | | | |
| 100 cm | calc ooze | 1 | 1 | | | 12 | 3 | 70 | | 8 | 5 | | | |
| 200 cm | calc ooze | tr | | | | 30 | 2 | 60 | | 3 | 5 | | | |
| 300 cm | calc ooze | 2 | | | | 20 | 3 | 62 | | 8 | 5 | | | |
| 400 cm | calc ooze | tr | | | | 30 | 2 | 60 | | 3 | 5 | | | |
| 490 cm | calc ooze | 1 | 1 | | | 12 | 3 | 70 | | 8 | 5 | | | |
| 590 cm | calc ooze | tr | | | | 20 | 2 | 70 | | 3 | 5 | | | |
| 682 cm | calc ooze | 2 | tr | | | 12 | 3 | 70 | | 8 | 5 | | | |

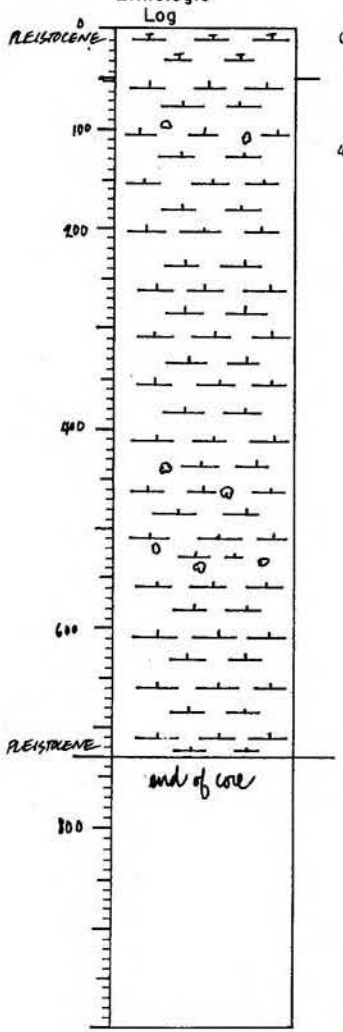
418

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 123 Core No. 78PC
Total Length 730 cm. Lat. 29°57.1'S Long. 35°33.8'W Depth 2233 m corr.
Core condition EXCELLENT Date Described 30 JAN 75 by J. BRODA.
Physiographic location NORTH FLANK: RIO GRANDE RISE.

Lithologic Log




Detailed Description

0-44
CALC OOZE
10YR 7/4 v. pale brown
foram sand
top 15 cm disturbed and washed
G

44-730
CALC OOZE
10YR 7/4 v. pale brown grades intermittently and irregularly throughout with 10YR 8/2 white
faint white mottling scattered, 90-120 cm, 430-570 cm
firm silty lutite with extremely abund. forams throughout
end of core

419

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

Ship: Chain Core No. 78 PC
Expedition 115 Station No. 123
Leg No. 6 Total Core Length 730 cm

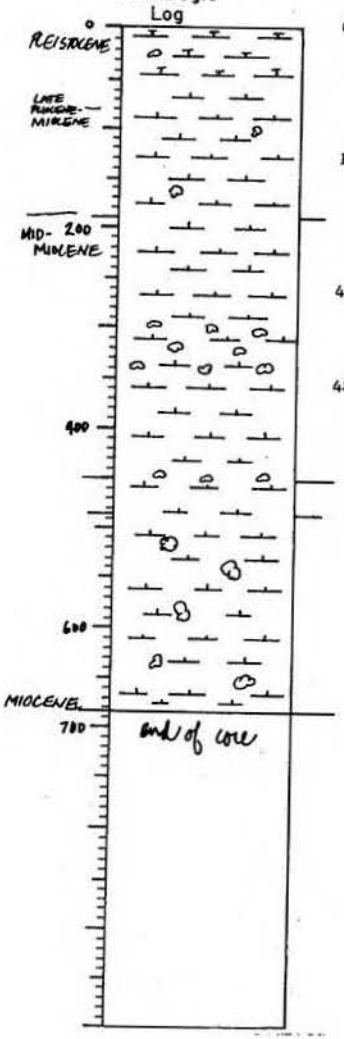
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | tr | | | 17 | 35 | 45 | | tr | 2 | | | tr |
| 100 cm | calc ooze | tr | tr | | | 20 | 8 | 65 | | tr | 7 | | | |
| 200 cm | calc ooze | | tr | | | 8 | 30 | 60 | | tr | 2 | | | |
| 300 cm | calc ooze | 2 | 1 | | | 20 | 15 | 60 | | tr | 3 | | | |
| 400 cm | calc ooze | tr | 1 | | | 9 | 25 | 60 | | tr | 5 | | | |
| 500 cm | calc ooze | 1 | 1 | | | 10 | 10 | 76 | | tr | 2 | | | |
| 600 cm | calc ooze | tr | | | | 10 | 8 | 80 | | 2 | tr | | | |
| 729 cm | calc ooze | tr | tr | | | 8 | 12 | 70 | | 2 | 8 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 124 Core No. 79PC
Total Length 682 cm. Lat. 29°57.6'S Long. 35°33.7'W Depth 2214 m.corr.
Core condition EXCELLENT Date Described 24 Feb 75 by J. Breda.
Physiographic location NORTH FLANK: RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-190
CALC OOZE
10YR 7/4 v. pale brown
v. light, v. faint white mottles scattered throughout
foram sand 0-40 cm grades to silty lutite with v. abund. forams
G

190-450
CALC OOZE
10YR 6/4 lt yellowish brown
abund. v. pale brown mottling 290-340 cm, 440-450 cm, v. small pale brown mottles scattered slightly otherwise
abund. forams in firm slightly silty lutite
S mottled

450-485
CALC OOZE
10YR 8/1 white
abund. forams in firm silty lutite
S concave upward

485-682
CALC OOZE
10YR 7/4 v. pale brown to 8/4 v. pale brown
large white mottles found commonly throughout, varying hues of two colors above alternating throughout
firm compact lutite with abund. forams
end of core



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

Ship: Chain Core No. 79 PC
Expedition 115 Station No. 124
Leg No. 6 Total Core Length 682 cm

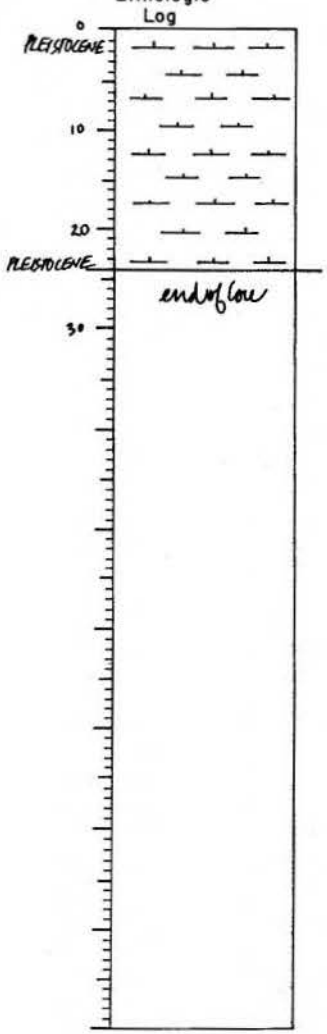
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | Calc ooze | tr | tr | | | 5 | 75 | 15 | | 3 | 2 | | | |
| 100 cm | calc ooze | 1 | 1 | | | 12 | 3 | 70 | | 8 | 5 | | | |
| 200 cm | calc ooze | tr | | | | 30 | 2 | 60 | | 3 | 5 | | | |
| 300 cm | calc ooze | 2 | | | | 20 | 3 | 62 | | 8 | 5 | | | |
| 400 cm | calc ooze | tr | | | | 30 | 2 | 60 | | 3 | 5 | | | |
| 490 cm | calc ooze | 1 | 1 | | | 12 | 3 | 70 | | 8 | 5 | | | |
| 590 cm | calc ooze | tr | | | | 20 | 2 | 70 | | 3 | 5 | | | |
| 682 cm | calc ooze | 2 | tr | | | 12 | 3 | 70 | | 8 | 5 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 124 Core No. 79PG
Total Length 24 cm. Lat. 29°57.6'S Long. 35°33.7'W Depth 2214m corr.
Core condition EXCELLENT Date Described 24 Feb 75 by J. Broda.
Physiographic location NORTH FLANK: RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-24
CALC OOZE
10YR 7/4 v. pale brown
extremely abund. forams in firm silty lutite
core appears somewhat washed 0-10 cm
end of core



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

Ship: Chain Core No. 79 PG
Expedition 115 Station No. 124
Leg No. 6 Total Core Length 24 cm

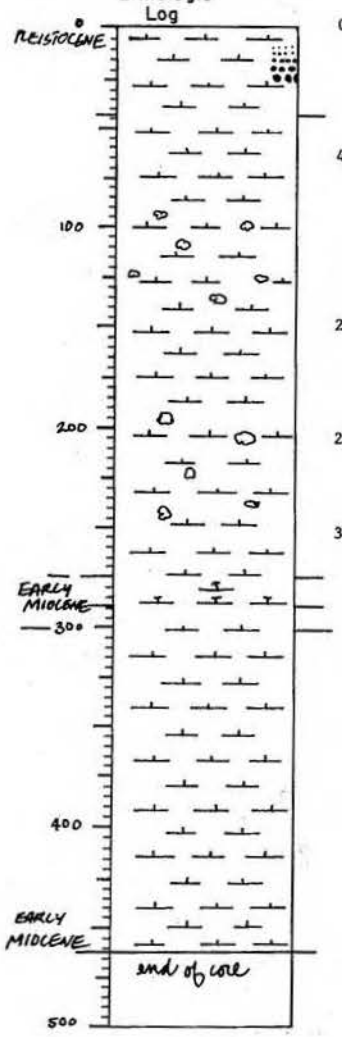
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | | | | 10 | 65 | 20 | | 3 | 2 | | | |
| 22 cm | calc ooze | tr | tr | | | 10 | 20 | 65 | | 2 | 3 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 125 Core No. 80PC
Total Length 462 cm. Lat. 29°56.3'S Long. 35°33.6'N Depth 2293 corr. meters.
Core condition EXCELLENT Date Described 25 FEB.75 by J. Grola
Physiographic location NORTH FLANK: RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-43
CALC OOZE
10YR 7/4 v. pale brown
graded pteropod ooze, silt size fragments to 1.5 cm long tests
one v. well preserved test 1.5 cm x 1.25 cm at 43 cm
S textural

43-275
CALC OOZE
10YR 6/4 lt yellowish brown grades slowly to 7/4 v. pale brown
several zones of faint, poorly define white and v. pale brown mottles, 90-109 cm, 120-130 cm, overall lightening somewhat splotchy 190-240 cm
moist silty lutite with forams abund. throughout
S textural

275-289
CALC OOZE
10YR 6/4 lt yellowish brown
somewhat graded sl laminated foram sand
1 cm break in core 275-276 cm
S horizontal, textural.

289-300
CALC OOZE
10YR 6/4 lt. yellowish brown
scattered forams in firm, tacky, sl silty lutite.
S inclined 5°

300-462
CALC OOZE
10YR 8/1 white
firm, plastic, smooth lutite with a few v. scattered forams
end of core



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

Ship: Chain Core No. 80 PC
Expedition 115 Station No. 125
Leg No. 6 Total Core Length 462 cm

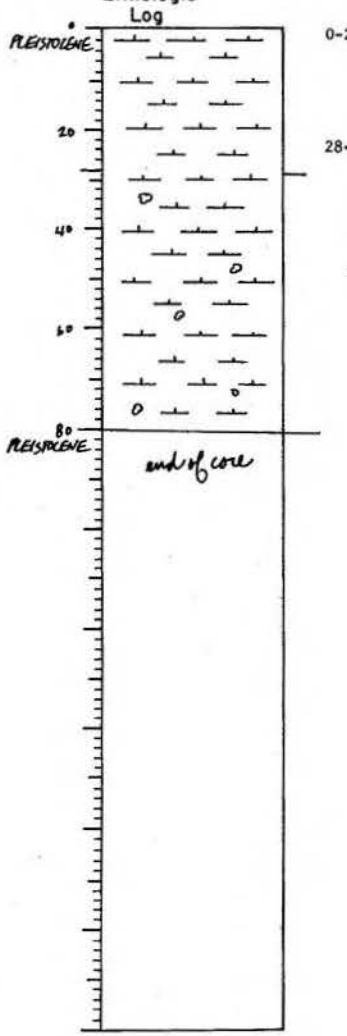
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | tr | | | 7 | 10 | 35 | 45 | tr | 3 | | | |
| 45 cm | calc ooze | 2 | tr | | | 11 | 15 | 65 | 1 | 1 | 5 | | | |
| 150 cm | calc ooze | 1 | | | | 30 | 20 | 45 | tr | 1 | 3 | | | |
| 250 cm | (nanno) calc ooze | tr | | | | | 15 | 82 | tr | | 2 | | | |
| 295 cm | calc ooze | 1 | tr | | | 8 | 2 | 65 | | 20 | 4 | | | |
| 305 cm | calc ooze | tr | | | | 2 | 3 | 60 | | 20 | 15 | | | |
| 405 cm | calc ooze | tr | | | | 7 | 3 | 55 | | 20 | 15 | | | |
| 461 cm | calc ooze | tr | | | | 2 | 3 | 60 | | 20 | 15 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 125 Core No. 80PG
Total Length 80 cm. Lat. 29°56.3'S Long. 35°33.6'W Depth 2293 corr. meters
Core condition EXCELLENT Date Described 25Feb75 by J. Broda.
Physiographic location NORTH FLANK: RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-28
CALC OOZE
10YR 7/4 v. pale brown
coarse pteropod ooze with one lamination of fine fragments
one remarkably well preserved large test at 27-28 cm
S horizontal

28-80
CALC OOZE
10YR 6/4 lt yellowish brown
v. sl. v. pale brown mottling scattered throughout
firm silty lutite with abund. forams
end of core



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

Ship: Chain Core No. 80 PG
Expedition 115 Station No. 125
Leg No. 6 Total Core Length 80 cm

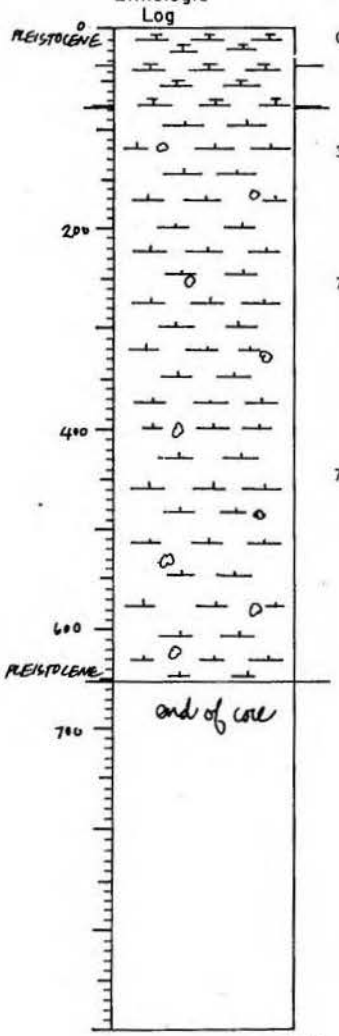
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | | | | | 5 | 20 | 15 | 60 | | tr | | | |
| 30 cm | calc ooze | 2 | | | | 30 | 10 | 50 | 3 | | 5 | | | |
| 79 cm | calc ooze | 2 | | | | 10 | 20 | 50 | 13 | | 5 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 128 Core No. 83PC
Total Length 651 cm. Lat. 29° 58.0'S Long. 35°33.7'W Depth 2189m.corr.
Core condition EXCELLENT Date Described 26Feb75 by J. Burda.
Physiographic location NORTH FLANK: RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-34
CALC OOZE
10YR 8/4 v. pale brown
fine to coarse foram sand
apparently washed due to recovery 0-15 cm
S irregular

34-73
CALC OOZE
10YR 6/3 pale brown grades to 8/4 v. pale brown
stiff silty foram rich lutite
foram-rich lutite disturbed and washed and mixed with foram sand 34-40 cm
S inclined 15°

73-74
CALC OOZE
10YR 8/4 v. pale brown
foram sand
S inclined 15°
Note: The sharpness of contact and similar inclinations above and below this foram sand layer appear to indicate that there was a break in core (probably during pullout) and the forams now included there washed down the side of the liner and filled the gap.

74-651
CALC OOZE
10YR 8/3 v. pale brown to 7/4 v. pale brown, color grades repeatedly between these two hues
sl scattered white mottling found occasionally throughout
stiff compact silty lutite with v. abund. forams
a few scattered dk flecks and tiny mottles 373-380 cm
end of core



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

Ship: Chain Core No. 83 PC
Expedition 115 Station No. 128
Leg No. 6 Total Core Length 651 cm

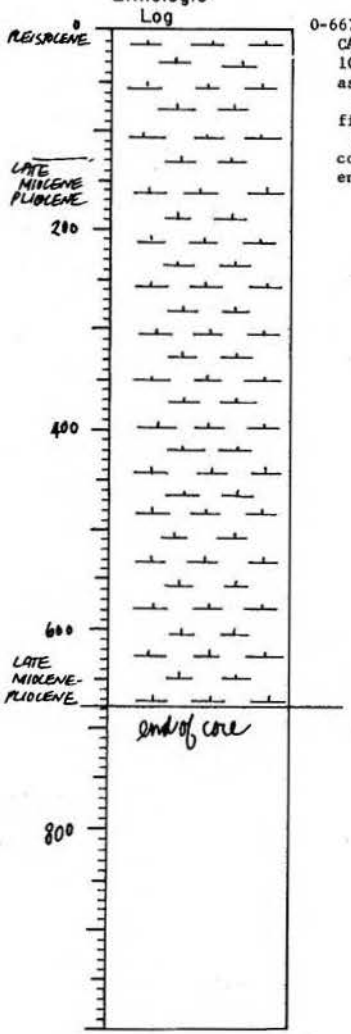
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 2 | 1 | | | 14 | 45 | 35 | | | 3 | | | |
| 72 cm | calc ooze | tr | tr | | | 4 | 30 | 65 | | | 1 | | | |
| 75 cm | calc ooze | tr | tr | | | 4 | 30 | 65 | | | 1 | | | |
| 175 cm | calc ooze | 1 | tr | | | 20 | 15 | 62 | | | 2 | | | |
| 275 cm | calc ooze | 1 | tr | | | 20 | 15 | 60 | | 2 | 2 | | | |
| 375 cm | calc ooze | 1 | tr | | | 20 | 18 | 55 | | 4 | 2 | | | |
| 475 cm | calc ooze | tr | tr | | | 20 | 15 | 60 | | 3 | 2 | | | |
| 575 cm | calc ooze | tr | tr | | | 25 | 15 | 55 | | 3 | 2 | | | |
| 650 cm | calc ooze | 1 | tr | | | 20 | 10 | 65 | | 2 | 2 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 129 Core No. 84PC
Total Length 667 cm. Lat. 29°59.7'S Long. 35°53.5'W Depth 2110 m corr.
Core condition EXCELLENT Date Described 3MAR75 by J Ewda
Physiographic location NORTH FLANK - RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-667
CALC OOZE
10YR 7/3 v. pale brown grades to 8/2 white and back to 7/3
aside from gradual color evolution, entire core is of uniform lithology
firm compact lutite with v. abund. forams throughout, generally a bit coarser 0-225 cm
core appears somewhat washed 0-12 cm
end of core



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

Ship: Chain Core No. 84 PC
Expedition 115 Station No. 129
Leg No. 6 Total Core Length 666 cm

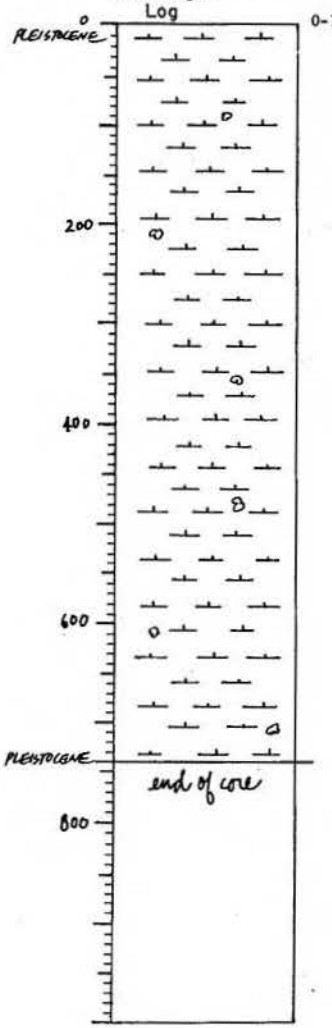
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | | | tr | 20 | 30 | 53 | | 2 | 5 | | | |
| 100 cm | calc ooze | tr | | | tr | 10 | 30 | 50 | | 5 | 5 | | | |
| 200 cm | calc ooze | 1 | tr | | tr | 20 | 20 | 50 | | 4 | 5 | | | |
| 300 cm | calc ooze | 1 | tr | | | 10 | 15 | 56 | | 6 | 12 | | | |
| 400 cm | calc ooze | tr | tr | | | 14 | 15 | 55 | | 8 | 8 | | | |
| 500 cm | calc ooze | 2 | tr | | tr | 30 | 8 | 30 | | 15 | 15 | | | |
| 600 cm | calc ooze | tr | | | tr | 20 | 10 | 30 | | 15 | 25 | | | |
| 665 cm | calc ooze | tr | | | tr. | 25 | 10 | 25 | | 10 | 30 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 130 Core No. 85PC
Total Length 740 cm. Lat. 29°59.3'S Long. 35°33.6'W Depth 2130 m.corr.
Core condition EXCELLENT Date Described 3MAR75 by J. Broda
Physiographic location NORTH FLANK · RIO GRANDE RISE

Lithologic Log




### Detailed Description

0-740
CALC OOZE
10YR 8/2 white to 7/4 v. pale brown color gently and repeatedly grades between these two colors
stiff v. compact lutite with v. abund. forams
the interval 0-20 cm appears to have been washed, disturbed during recovery
end of core



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

Ship: Chain Core No. 85 PC
Expedition 115 Station No. 130
Leg No. 6 Total Core Length 740 cm

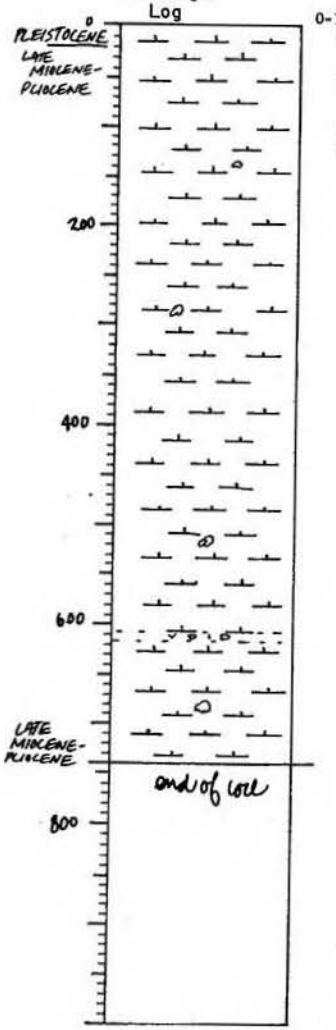
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | 1 | tr | | | 7 | 50 | 40 | | tr | 2 | | | |
| 100 cm | calc ooze | 1 | tr | | tr | 27 | 30 | 40 | | | 2 | | | |
| 200 cm | calc ooze | 1 | 1 | | tr | 16 | 30 | 50 | | tr | 2 | | | |
| 300 cm | calc ooze | 1 | 1 | | tr | 15 | 20 | 60 | | tr | 3 | | | |
| 400 cm | calc ooze | 1 | tr | | | 14 | 30 | 50 | | 3 | 2 | | | |
| 500 cm | calc ooze | 1 | 1 | | tr | 15 | 16 | 55 | | 5 | 7 | | | |
| 600 cm | calc ooze | 2 | tr | | tr | 16 | 20 | 50 | | 7 | 5 | | | |
| 700 cm | calc ooze | 1 | tr | | tr | 28 | 10 | 55 | | 3 | 3 | | | |
| 739 cm | calc ooze | 1 | 1 | | tr | 15 | 16 | 55 | | 5 | 7 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg 6 Sta. 131 Core No. 86PC
Total Length 740 cm. Lat. 30°00.1'S Long. 35°33.7'W Depth 2090 m corr.
Core condition EXCELLENT Date Described 4MAR75 by [illegible]
Physiographic location NORTH FLANK: RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-740
CALC OOZE
10YR 8/2 white gently grades to 7/3 v. pale brown
a few irregular faint white mottles found in the entire core
firm compact lutite with v. abund. forams throughout, 0-10 cm foram sand disturbed by washing in recovery
606-611 cm: void water pocket, removed before core was split
end of core



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

Ship: Chain Core No. 86 PC
Expedition 115 Station No. 131
Leg No. 6 Total Core Length 740 cm

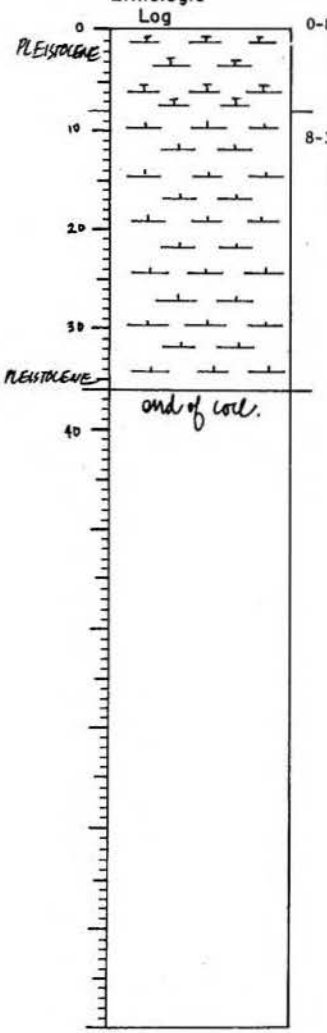
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 cm | calc ooze | tr | tr | | | 12 | 35 | 45 | | 3 | 5 | | | |
| 100 cm | calc ooze | tr | tr | | tr | 20 | 15 | 40 | | 10 | 15 | | | |
| 200 cm | calc ooze | 1 | tr | | | 22 | 15 | 50 | | 7 | 5 | | | |
| 300 cm | calc ooze | 2 | tr | | tr | 21 | 12 | 55 | | 5 | 5 | | | |
| 400 cm | calc ooze | 1 | 1 | | | 20 | 10 | 58 | | 5 | 5 | | | |
| 500 cm | calc ooze | 1 | tr | | tr | 15 | 10 | 52 | | 10 | 12 | | | |
| 600 cm | calc ooze | 1 | 1 | | tr | 43 | 5 | 15 | | 15 | 25 | | | |
| 700 cm | calc ooze | tr | tr | | | 35 | 5 | 25 | | 10 | 25 | | | |
| 739 cm | calc ooze | tr | tr | | | 30 | 5 | 25 | | 15 | 25 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 131 Core No. 86PG
Total Length 36 cm. Lat. 30°00.1'S Long. 35°33.7'W Depth 2090 m.corr.
Core condition EXCELLENT Date Described 4MAR75 by J. Broda
Physiographic location NORTH FLANK: RIO GRANDE RISE.

Lithologic Log




### Detailed Description

0-8
CALC OOZE
10YR 7/3 v. pale brown grades to 6/2 lt brownish gray
thin gradational laminations throughout
fairly coarse foram sand
S, textural

8-36
CALC OOZE
10YR 8/2 white
firm compact lutite with v. abund. forams
end of core



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

Ship: Chain Core No. 86 PG
Expedition 115 Station No. 131
Leg No. 6 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 cm | calc ooze | tr | tr | | | 20 | 25 | 45 | | 8 | 2 | | | |
| 35 cm | calc ooze | tr | tr | | | 30 | 15 | 45 | | 8 | 2 | | | |

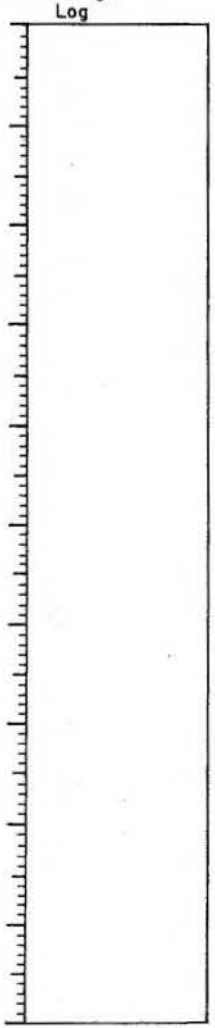
## 442

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHN Cruise 115 Leg 6 Sta. 134 Core No. 87 PC
Total Length ~2 cm. Lat. 29° 46.3'S Long. 35° 36.0'W Depth 3302 corrm
Core condition — Date Described 21 May 75 by R McGIRR
Physiographic location Canyon trending NE, North Flank of Rio Grande Rise

Lithologic Log



Detailed Description

Core did not penetrate the bottom. Recovery consists of a small amount of Mn nodules and Mn crust only.

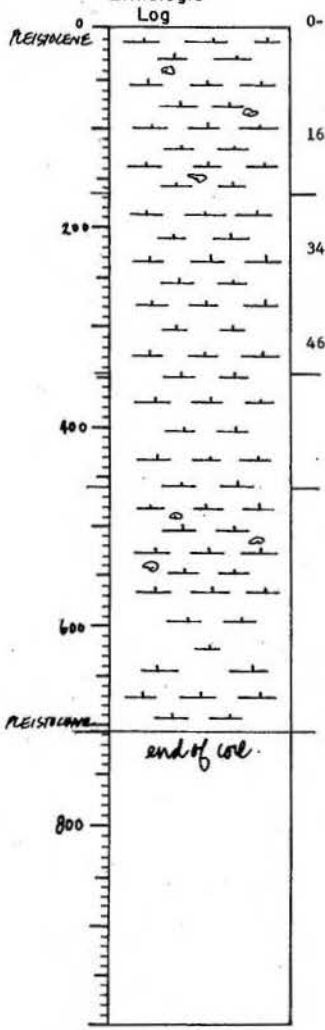
## 443

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 137 Core No. 88PC
Total Length 704 cm. Lat. 30° 55.0'S Long. 38° 04.8'W Depth 2941 mcorr.
Core condition EXCELLENT Date Described SMAR. 75 by [illegible]
Physiographic location EAST SIDE OF VEMA CHANNEL.

Lithologic Log




Detailed Description

0-165
CALC OOZE
10YR 6/4 lt yellowish brown grades to 7/4 v. pale brown
sl v. poorly defined white mottling 0-90 cm
moist silty lutite with scattered forams
G

165-344
NANNO OOZE
10YR 8/2 white
sl marbling with v. pale brown throughout
stiffer more plastic-like lutite with abund. forams
S textural

344-460
CALC OOZE GRADES TO NANNO OOZE
10YR 7/4 v. pale brown grades to 8/2 white
moist less compact lutite with scattered forams
G

460-704
CALC OOZE GRADES TO NANNO OOZE
10YR 7/4 v. pale brown grades to 6/4 lt yellowish brown then back to 7/4 v. pale brown
scattered black flecks and faint white mottling 490-530 cm
moist lutite with scattered forams becomes more plastic 645-691 cm near end of core
end of core

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

Ship: Chain  Core No. 88 PC

Expedition 115  Station No. 137

Leg No. 6  Total Core Length _____ cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | tr | | | 11 | 25 | 60 | | | 3 | | | |
| 100 cm | calc ooze | 3 | tr | | | 29 | 12 | 50 | | | 6 | | | |
| 200 cm | nanno ooze | tr | | | | tr | 13 | 85 | | | 2 | | | |
| 300 cm | nanno ooze | tr | | | | 2 | 10 | 85 | | | 3 | | | |
| 400 cm | nanno ooze | 1 | | | | tr | 10 | 86 | | | 3 | | | |
| 505 cm | calc ooze | tr | 5 | | | 5 | 30 | 58 | | | 2 | | | |
| 600 cm | calc ooze | 1 | 1 | | | 15 | 5 | 75 | | | 3 | | | |
| 690 cm | nanno ooze | tr | | | | 2 | 10 | 85 | | | 3 | | | |

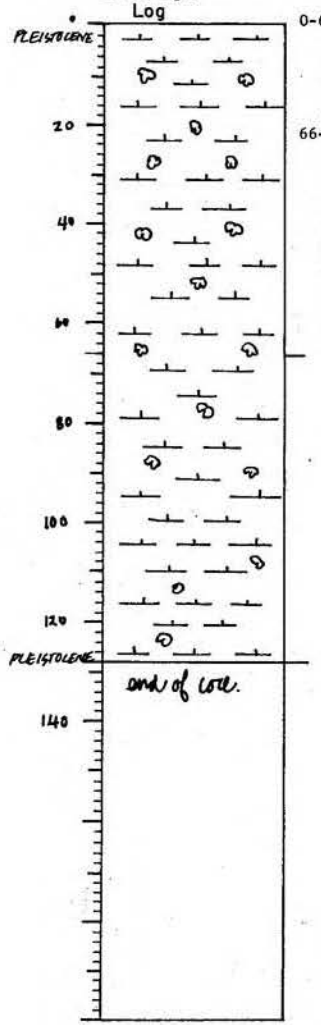


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 137 Core No. 88PG
Total Length 128 cm. Lat. 30°55.0'S Long. 38° 04.8' W Depth 2941
Core condition EXCELLENT Date Described 5MAR75 by J. Brada
Physiographic location EAST SIDE OF VEMA CHANNEL.

Lithologic Log




Detailed Description

0-66
CALC OOZE
10YR 7/4 v. pale brown
common white and pale brown marbling and mottling throughout
firm sl silty lutite with abund. forams
S, I

66-128
CALC OOZE
10YR 6/1 lt gray grades to 6/3 pale brown to 6/4 lt yellowish brown in three seperate and distinct sequences
common v. pale brown mottling found in each of the lt yellowish brown areas
moist silty lutite with abund. forams throughout
boundries of repetitive sequences: 66-79 cm, 79-102 cm, 102-126 cm and 126 cm begins another with the lt gray top portion of the cycle
end of core

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

Ship: Chain  Core No. 88 PG

Expedition 115  Station No. 137

Leg No. 6  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 |
| 1 cm | calc ooze | 3 | 2 | | tr | 20 | 15 | 55 | | | 5 | | | |
| 67 cm | calc ooze | 1 | 1 | | tr | 20 | 10 | 63 | | | 5 | | | |
| 80 cm | calc ooze | 1 | 1 | | | 22 | 8 | 65 | | | 3 | | | |
| 127 cm | calc ooze | 1 | tr | | | 26 | 9 | 60 | | | 4 | | | |



VISUAL CORE DESCRIPTION



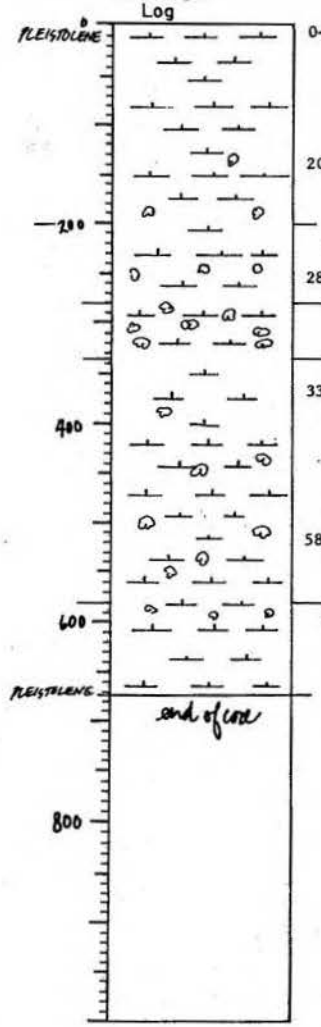
Ship CHAIN Cruise 115 Leg 6 Sta. 139 Core No. 89PC

Total Length 672 cm. Lat. 30°52.8'S Long. 38°11.8'W Depth 3152 m.corr.

Core condition EXCELLENT. Date Described 5 MAY 75 by [illegible]

Physiographic location VEMA CHANNEL.

Lithologic Log




Detailed Description

0-200
CALC OOZE
10YR 6/4 lt yellowish brown
scattered halo-like white and v. pale brown mottles, more abund. at base
moist firm lutite with scattered forams
G mottled

200-280
NANNO OOZE
10YR 7/4 v. pale brown
common white and v. pale brown mottles
stiffer more plastic-like lutite, forams common
G

280-335
NANNO OOZE
10YR 6/4 lt yellowish brown
extensive white and v. pale brown mottling
stiff plastic lutite, scattered forams
G

335-580
NANNO OOZE
10YR 7/4 v. pale brown grades to 6/4 lt yellowish brown in two separate and distinct sequences
white and v. pale brown mottling common throughout
stiff plastic lutite with scattered to abund. forams becomes more lithified with depth
G

580-672
NANNO OOZE
10YR 7/3 v. pale brown grades to 8/1 white
small faint lt yellowish brown mottling and black flecks 580-620
stiff plastic lutite with common forams
end of core

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

Ship: Chain  Core No. 89 PC

Expedition 115  Station No. 139

Leg No. 6  Total Core Length 672 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | 1 | | | 20 | 35 | 40 | | | 3 | | | |
| 100 cm | calc ooze | 1 | 1 | | tr | 26 | 20 | 40 | | | 12 | | | |
| 200 cm | nanno ooze | tr | 1 | | | 8 | 7 | 80 | | | 4 | | | |
| 300 cm | nanno ooze | 1 | | | | 6 | 8 | 82 | | tr | 3 | | | |
| 400 cm | nanno ooze | tr | 1 | | | 8 | 7 | 80 | | | 4 | | | |
| 500 cm | nanno ooze | tr | tr | | | 2 | 5 | 90 | | | 3 | | | |
| 600 cm | nanno ooze | 1 | | | | 8 | 5 | 82 | | tr | 4 | | | |
| 670 cm | nanno ooze | tr | | | | 2 | 2 | 95 | | | 1 | | | |

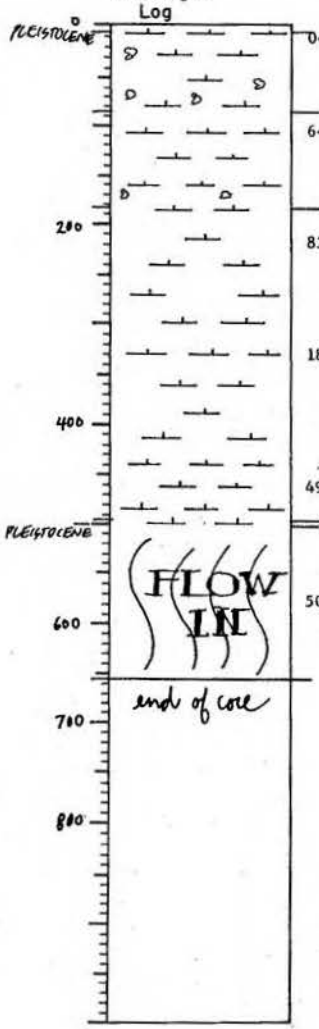


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 140 Core No. 90PC
Total Length 654 cm. Lat. 30°51.0'S Long. 38°22.3'W Depth 3384 m corr.
Core condition EXCELLENT Date Described 6MAR.75 by J Broda.
Physiographic location EASTERN FLANK: VEMA CHANNEL.

Lithologic Log




Detailed Description

0-6
CALC OOZE
10YR 6/3 pale brown
extemely abund. forams in firm lutite
G

6-83
CALC OOZE
10YR 6/4 lt yellowish brown
extensive v. pale brown mottling and marbling throughout
firm sl silty lutite with abund. forams
G

83-182
NANNO OOZE
10YR 6/4 lt yellowish brown
v. homogeneous 83-165 cm, v. pale brown extensive mottling 165-182
slicker moister lutite with scattered forams
G mottled

182-494
NANNO OOZE GRADES TO CALC OOZE
10YR 8/4 v. pale brown repeatedly grades to 7/4
scattered white, v. pale brown mottling found throughout
stiff plastic lutite with scattered forams
gradational sequences 182-292 cm, 292-375 cm, 375, 499 cm
S concave upward

494-500
CALC OOZE
10YR 6/2 lt gray and 7/4 v. pale brown
a gradational series of concave up laminations
stiff silty lutite with abund. forams
G

500-654
FLOW-IN
end of core

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

Ship: Chain  Core No. 96 PC

Expedition 115  Station No. 140

Leg No. 6  Total Core Length 654 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | 1 | | | 23 | 15 | 55 | | | 5 | | | |
| 100 cm | calc ooze | 2 | 1 | | | 25 | 15 | 50 | | | 7 | | | |
| 200 cm | nanno ooze | tr | tr | | | 5 | 8 | 85 | | | 2 | | | |
| 300 cm | nanno ooze | 1 | | | 1 | 6 | 10 | 80 | | | 2 | | | |
| 400 cm | nanno ooze | tr | tr | | | 8 | 5 | 85 | | | 2 | | | |
| 500 cm | calc ooze | 2 | tr | | | 12 | 10 | 70 | | | 6 | | | |
| 600 cm | calc ooze | tr | tr | | | 12 | 15 | 68 | | | 5 | | | |
| 652 cm | calc ooze | tr | tr | | | 15 | 15 | 65 | | | 5 | | | |



VISUAL CORE DESCRIPTION



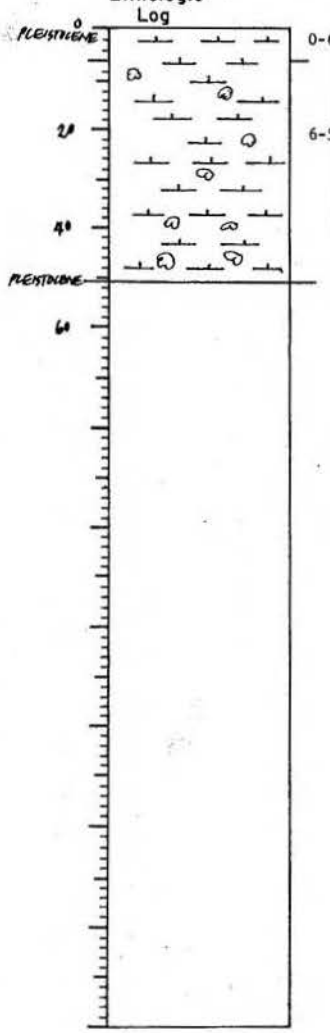
Ship CHAIN Cruise 115 Leg 6 Sta. 140 Core No. 90PG

Total Length 51 cm. Lat. 30° 51.0'S Long. 38° 22.3'W Depth 3384 m.corr

Core condition EXCELLENT Date Described 6MAR75 by J. Brooks

Physiographic location EASTERN FLANK: VEMA CHANNEL.

Lithologic Log




Detailed Description

0-6
CALC OOZE
10YR 6/3 pale brown
extremely abund. forams in firm lutite
G

6-51
CALC OOZE
10YR 6/4 lt yellowish brown
extensive v. pale brown mottling, marbling throughout
firm sl silty lutite with abund. forams
end of core

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

Ship: Chain  Core No. 90 PG

Expedition 115  Station No. 140

Leg No. 6  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 |
| 1 cm | calc ooze | 1 | 1 | | | 18 | 30 | 45 | | | 5 | | | |
| 50 cm | calc ooze | 1 | 1 | | | 23 | 25 | 45 | | | 5 | | | |

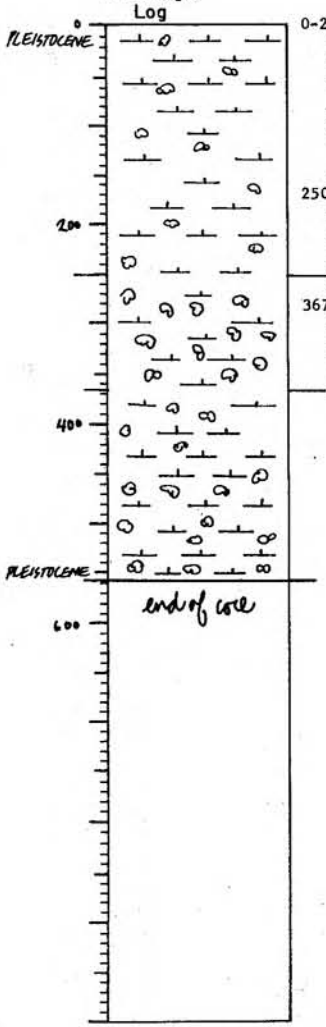


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 6 Sta. 141 Core No. 91PC
Total Length 558 cm. Lat. 30° 49.5'S Long. 38° 25.8'W Depth 3576 m-corr.
Core condition EXCELLENT Date Described 6MAR75 by [illegible]
Physiographic location EASTERN FLANK: VEMA CHANNEL.

Lithologic Log




Detailed Description

0-250
CALC OOZE
10YR 6/4 lt yellowish brown
common white and v. pale brown mottling throughout, one v. well formed concentric oval burrow 77-80 cm
abund. forams in moist silty lutite
0-5 cm foram-rich lt brownish gray layer grades into major unit
G

250-367
CALC OOZE
10YR 8/3 v. pale brown grades to 10YR 7/4 v. pale brown
extensive intermottling of the two colors above
stiff more plastic lutite with scattered forams
G mottled

367-558
CALC OOZE
10YR 8/4 v. pale brown grades to 7/4 v. pale brown
extensive intermottling and marbling of colors above
firm silty lutite with abund. forams
end of core

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

Ship: Chain  Core No. 91PC

Expedition 115  Station No. 141

Leg No. 6  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 |
| 1 cm | calc ooze | 1 | 1 | | | 25 | 20 | 50 | | | 3 | | | |
| 100 cm | calc ooze | 1 | 3 | | | 35 | 15 | 40 | | | 6 | | | |
| 200 cm | nanno ooze | tr | tr | | | 10 | 5 | 82 | | | 3 | | | |
| 300 cm | nanno ooze | | tr | | | 5 | 3 | 90 | | | 2 | | | |
| 400 cm | nanno ooze | tr | tr | | | 8 | 5 | 85 | | | 2 | | | |
| 500 cm | calc ooze | 1 | 1 | | | 25 | 20 | 50 | | | 3 | | | |
| 542 cm | nanno ooze | tr | tr | | | 10 | 5 | 82 | | | 3 | | | |



VISUAL CORE DESCRIPTION



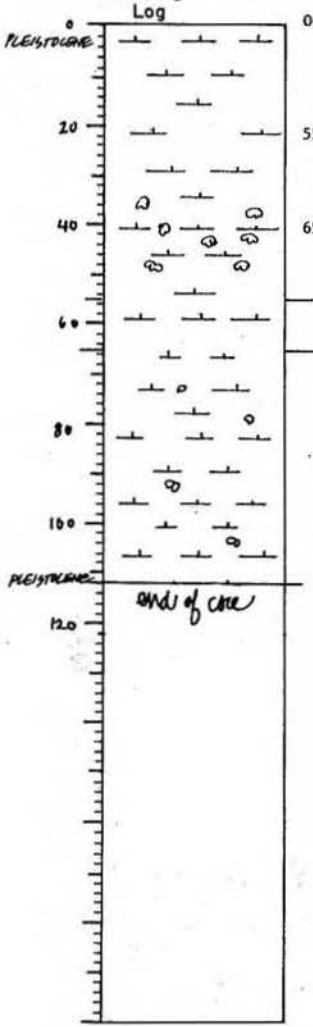
Ship CHAIN Cruise 115 Leg 6 Sta. 141 Core No. 91PG

Total Length 112 cm. Lat. 30°49.5'S Long. 38°25.8'W Depth 3576 m.corr.

Core condition EXCELLENT Date Described 6MAR75 by J Barda

Physiographic location EASTERN FLANK: VEMA CHANNEL

Lithologic Log




Detailed Description

0-55
CALC OOZE
10YR 6/4 lt yellowish brown
extensive broad white mottling 38-48 cm
moist sl silty lutite with scattered forams
S, irregular

55-65
CALC OOZE
10YR 6/2 lt brownish gray
moist silty lutite with v. abund. forams
G

65-112
CALC OOZE
10YR 6/4 lt yellowish brown
common faint v. pale brown mottling throughout
moist sl silty lutite with scattered forams
Note: because of an irregular mid-core contact and similar repetitive lithology, this pilot core is suspected to be an example of a wire rebound repenetration.
1st penetration: 0-55 cm; 2nd 55-112 cm
end of core

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

Ship: Chain  Core No. 91 PG

Expedition 115  Station No. 141

Leg No. 6  Total Core Length 112 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 1 | 1 | | | 25 | 20 | 50 | | | 3 | | | |
| 56 cm | calc ooze | 1 | 1 | | | 25 | 15 | 50 | | | 8 | | | |
| 111 cm | calc ooze | 1 | tr | | | 20 | 25 | 50 | | | 4 | | | |



VISUAL CORE DESCRIPTION



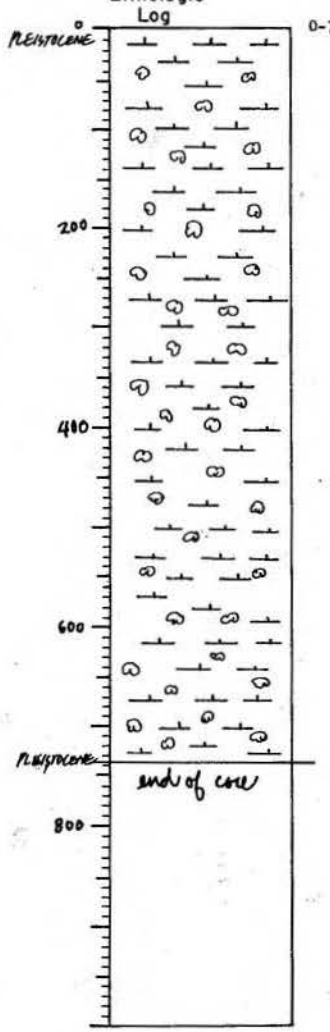
Ship CHAIN Cruise 115 Leg 6 Sta. 144 Core No. 92PC

Total Length 734 cm. Lat. 30° 25.7'S Long. 38° 50.3'W Depth 3934m corr.

Core condition EXCELLENT Date Described 6MAR75 by J Brooks

Physiographic location VEMA CHANNEL.

Lithologic Log




Detailed Description

0-714
CALC OOZE
10YR 6/3 pale brown grades to 6/4 lt yellowish brown
common to extensive v. pale brown, white, and lt yellowish brown mottling throughout, a few black flecks can be seen 100-120 cm
moist sl silty lutite with foram abund. varying sl throughout from common to abund.
overall hue occasionally and gradually lightens to 7/4 v. pale brown in the zones 230-255 cm, 290-330 cm, 520-580 cm, 600-620 cm, 680-718 cm.
end of core

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

Ship: Chain  Core No. 92 PC

Expedition 115  Station No. 144

Leg No. 6  Total Core Length 718 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | calc ooze | 3 | 3 | | | 35 | 10 | 45 | | | 4 | | | |
| 100 cm | calc ooze | 3 | 3 | | | 30 | 20 | 40 | | | 4 | | | |
| 200 cm | nanno ooze | 1 | 2 | | | 5 | 5 | 85 | | | 2 | | | |
| 300 cm | nanno ooze | 1 | 1 | | | 5 | 5 | 85 | | | 3 | | | |
| 400 cm | calc ooze | 3 | 3 | | | 30 | 15 | 45 | | | 4 | | | |
| 500 cm | calc ooze | 2 | 4 | | | 29 | 15 | 40 | | | 10 | | | |
| 600 cm | calc ooze | 3 | 3 | | | 30 | 15 | 45 | | | 4 | | | |
| 700 cm | nanno ooze | 1 | 2 | | | 10 | 10 | 75 | | tr | 4 | | | |
| 717 cm | nanno ooze | 1 | 2 | | | 12 | 8 | 75 | | tr | 4 | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

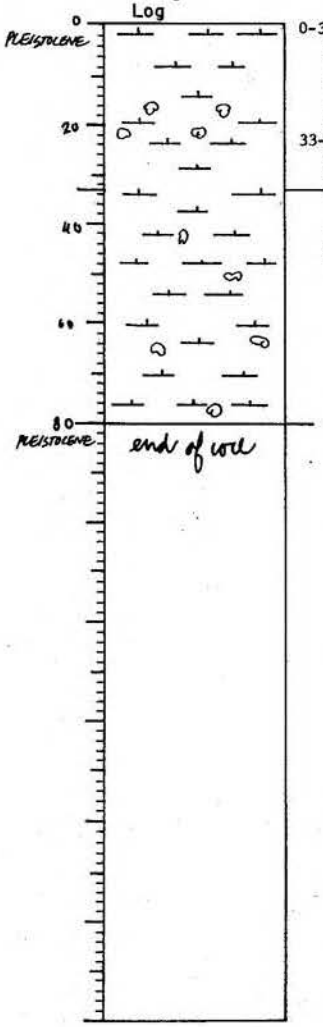
Ship CHAIN Cruise 115 Leg 6 Sta. 144 Core No. 92PG

Total Length 80 cm. Lat. 30° 25.7'S Long. 38° 50.3'W Depth 3934m corr.

Core condition EXCELLENT Date Described 6 MAR. 75 by J Bunda

Physiographic location VEMA CHANNEL

Lithologic Log




Detailed Description

0-33
CALC OOZE
10YR 6/2 lt brownish gray grades to 6/4 lt yellowish brown
common v. pale brown mottling 17-32 cm
moist sl silty lutite with scattered forams
S, Irregular

33-80
CALC OOZE
10YR 6/2 lt brownish gray grades to 6/4 lt yellowish brown
sl v. pale brown mottling throughout, one well formed crescent shaped burrow at 56 cm
moist sl silty lutite with scattered forams
end of core

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

Ship: Chain  Core No. 92 PG

Expedition 115  Station No. 144

Leg No. 6  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 |
| 1 cm | calc ooze | 3 | 3 | | | 25 | 25 | 40 | | | 4 | | | |
| 79 cm | calc ooze | 2 | 5 | | | 22 | 20 | 45 | | | 6 | | | |

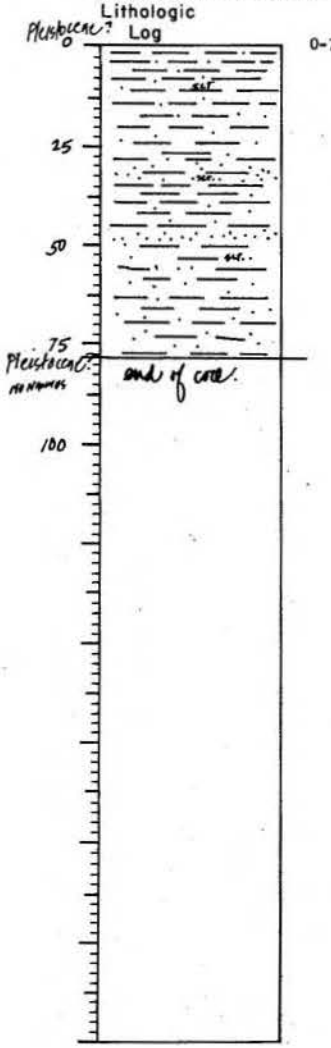


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 115 Leg 8 Sta. 159 Core No. 93GC
Total Length 78 cm. Lat. 0° 12.2'N Long. 48° 50.9'W Depth 8m.corr.
Core condition EXCELLENT Date Described 17 JULY 75 by J. Broda.
Physiographic location CONTINENTAL SHELF OFF BRAZIL.

Lithologic Log




Detailed Description

0-78
UNFOSS CLAY/DETRITUS WITH LAMINATIONS OF DETRITUS
10YR 4/3 brown
a few very faint grayish brown inclined laminations in the zone 42-52 cm
very moist, varying from slightly silty to silty throughout
end of core

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

Ship: Chain  Core No. 93 GC

Expedition 115  Station No. 159

Leg No. 8  Total Core Length 78 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 cm | unfoss clay/det | 35 | 2 | | tr | 63 | | | | | tr | tr | | |
| 43 cm | detritus | 85 | tr | | | 15 | | | | | | | | tr |
| 77 cm | unfoss clay/det | 45 | 2 | | tr | 53 | | | | | tr | tr | | tr |



VISUAL CORE DESCRIPTION  Page 1 of 1

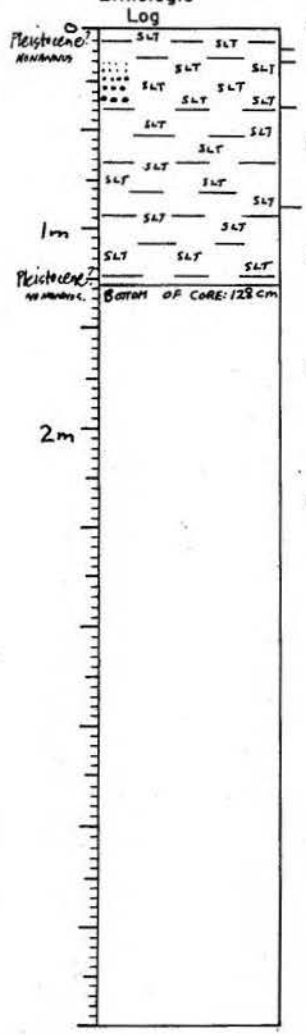
Ship CHAIN Cruise 115 Leg 8 Sta. 160 Core No. 94 GC

Total Length 128 cm. Lat. 01° 37.5' N Long. 49° 01.0' W Depth 10 m

Core condition EXCELLENT Date Described 17 JULY 75 by R McGIRR

Physiographic location Brazilian Shelf

Lithologic Log




Detailed Description

0-9
UNFOSS CLAY/DETRITUS
2.5Y 4/2 dark grayish brown
moist very silty lutite
very small individual black specks throughout
S textural horizontal

9-16
UNFOSS CLAY/DETRITUS
10YR 4/2 dark grayish brown
moist firm lutite
several thin laminations and small patches of silt
S textural inclined 10°

16-38
DETRITUS
2.5Y 4/2 dark grayish brown
very silty lutite grades to silt
graded bedding
S textural, inclined 30°

38-89
UNFOSS CLAY/DETRITUS
10YR 4/2 dark grayish brown
moist silty lutite
several 1 cm thick silt laminations, inclined 30° at 71, 81-84 cm
S, textural, inclined 10°

89-128
UNFOSS CLAY/DETRITUS
2.5Y 4/2 dark grayish brown
moist silty lutite
several very thin wavy silt laminations 110-118 cm.
end of core

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

Ship: Chain

Core No. 94 GC

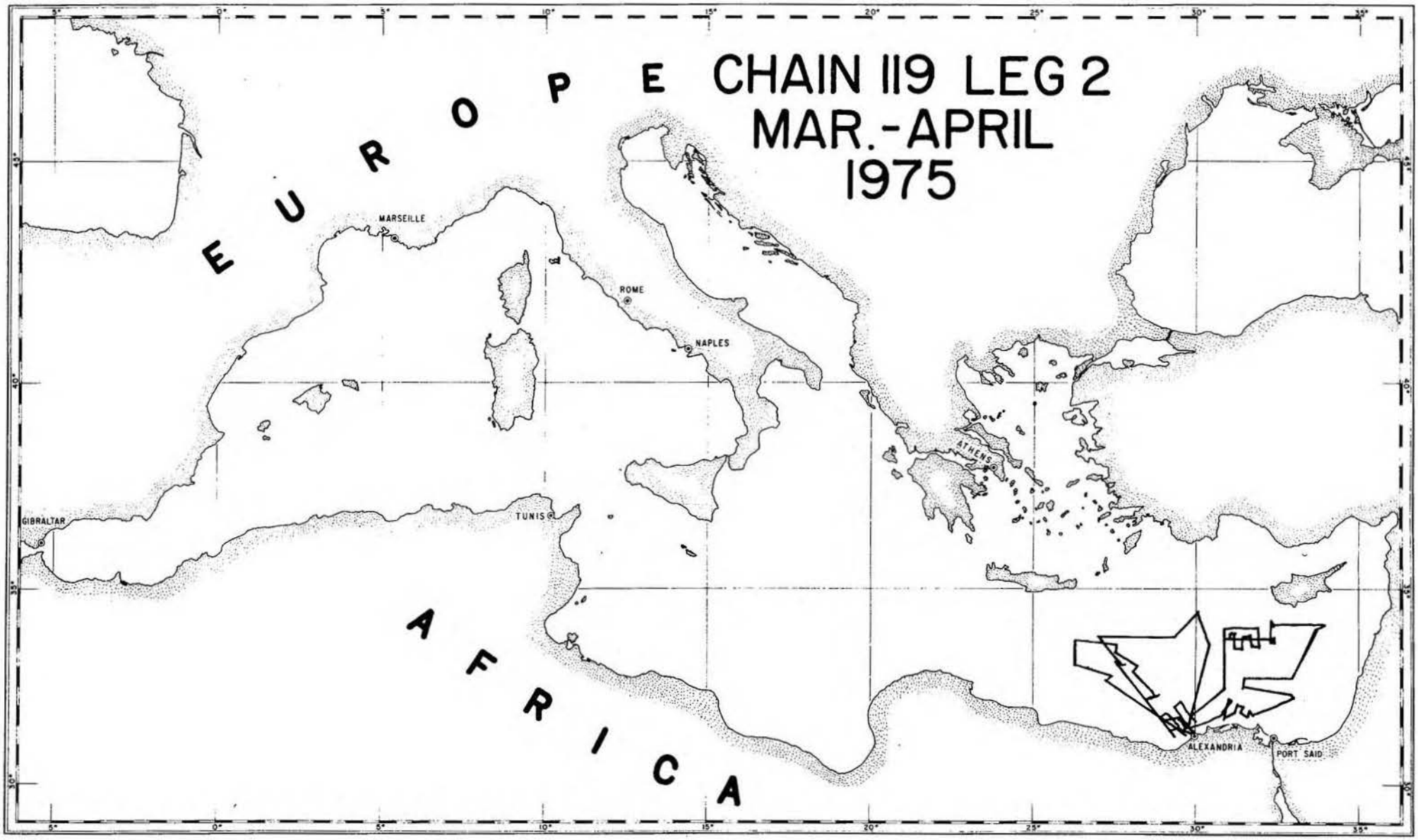
Expedition 115

Station No. 160

Leg No. 8

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 |
| 1 cm | unfoss clay/det | 45 | 2 | | 6 | 47 | | | | | tr | tr | | |
| 35 cm | detritus | 80 | 5 | | 6 | 9 | | tr | | | | | | |
| 50 cm | unfoss clay/det | 40 | 4 | | 3 | 53 | | | | | | 1 | | |
| 80 cm | unfoss clay/det | 45 | 5 | | 4 | 46 | | | | | | tr | | tr |
| 127 cm | unfoss clay/det | 50 | 5 | | 4 | 41 | | | | | | | | |


CHAIN 119 LEG 2
MAR.-APRIL
1975
EUROPE
AFRICA
MARSEILLE
ROME
NAPLES
ATHENS
GIBRALTAR
TUNIS
ALEXANDRIA
PORT SAID

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:07 JUN 03,'77 ********** **WHOI**

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHN | 119 | 2 | 0010 | 0000 | 15 | 75 323 | 31 11.1'N | 29 16.7'E | 9 | 142.19 | 0001 | 552. | 674. | 0000 | 2 | 4339 | 0 | |
| | | | | | **COMMENTS** | | FLOW IN: 277-674CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0011 | 0000 | 15 | 75 323 | 31 39.2'N | 28 49.2'E | 9 | 142.18 | 0002 | 1827. | 821. | 0000 | 4 | 3869 | 0 | |
| | | | | | **COMMENTS** | | FLOW IN: 17-821CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0013 | 0000 | 15 | 75 324 | 32 7.8'N | 28 24.7'E | 9 | 142.28 | 0003 | 2778. | 573. | 0000 | 6 | 3839 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | | |
| CHN | 119 | 2 | 0013 | 0000 | 26 | 75 324 | 32 7.8'N | 28 24.7'E | 9 | 142.28 | 0003 | 2778. | 141. | 0000 | 6 | 3338 | 0 | |
| | | | | | **COMMENTS** | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | | |
| CHN | 119 | 2 | 0015 | 0000 | 15 | 75 324 | 32 47.1'N | 27 48.4'E | 1 | 142.27 | 0004 | 3130. | 532. | 0000 | 10 | 3739 | 0 | |
| | | | | | **COMMENTS** | | ENTIRE CORE IS SUSPECT - FLOW IN 56-532 CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0015 | 0000 | 26 | 75 324 | 32 47.1'N | 27 48.4'E | 1 | 142.27 | 0004 | 3130. | 106. | 0000 | 10 | 3938 | 0 | |
| CHN | 119 | 2 | 0017 | 0000 | 15 | 75 325 | 33 10.7'N | 27 5.2'E | 9 | 142.37 | 0005 | 2698. | 373. | 0000 | 13 | 3349 | 0 | |
| | | | | | **COMMENTS** | | ENTIRE CORE HAS DISTURBED APPEARANCE | | | | | | | | | | | |
| CHN | 119 | 2 | 0017 | 0000 | 26 | 75 325 | 33 10.7'N | 27 5.2'E | 9 | 142.37 | 0005 | 2698. | 82. | 0000 | 13 | 3329 | 0 | |
| | | | | | **COMMENTS** | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | | |
| CHN | 119 | 2 | 0022 | 0000 | 15 | 75 325 | 33 15.8'N | 26 .9'E | 9 | 142.36 | 0006 | 2372. | 697. | 0000 | 13 | 3938 | 0 | |
| CHN | 119 | 2 | 0022 | 0000 | 26 | 75 325 | 33 15.8'N | 26 .9'E | 9 | 142.36 | 0006 | 2372. | 124. | 0000 | 13 | 3932 | 0 | |
| CHN | 119 | 2 | 0025 | 0000 | 15 | 75 326 | 32 20.3'N | 26 56.7'E | 1 | 142.26 | 0007 | 3196. | 723. | 0000 | 10 | 3139 | 0 | |
| CHN | 119 | 2 | 0027 | 0000 | 15 | 75 327 | 31 49.8'N | 27 43.9'E | 1 | 142.17 | 0008 | 2738. | 469. | 0000 | 10 | 3349 | 0 | |
| CHN | 119 | 2 | 0027 | 0000 | 26 | 75 327 | 31 49.8'N | 27 43.9'E | 1 | 142.17 | 0008 | 2738. | 82. | 0000 | 10 | 3326 | 0 | |
| CHN | 119 | 2 | 0028 | 0000 | 15 | 75 327 | 31 19.0'N | 28 11.0'E | 1 | 142.18 | 0009 | 891. | 711. | 0000 | 4 | 3349 | 0 | |
| | | | | | **COMMENTS** | | FLOW IN: 32-711 CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0028 | 0000 | 26 | 75 327 | 31 19.0'N | 28 11.0'E | 1 | 142.18 | 0009 | 891. | 69. | 0000 | 4 | 3339 | 0 | |
| CHN | 119 | 2 | 0036 | 0000 | 13 | 75 328 | 31 30.9'N | 30 18.8'E | 3 | 141.10 | 0002 | 6. | 60. | 0000 | 24 | 6431 | 0 | |
| | | | | | **COMMENTS** | | DETRITUS IS COMMON THROUGHOUT CORE | | | | | | | | | | | |
| CHN | 119 | 2 | 0055 | 0000 | 13 | 75 328 | 31 32.6'N | 30 15.5'E | 3 | 141.10 | 0003 | 11. | 86. | 0000 | 24 | 2259 | 0 | |
| CHN | 119 | 2 | 0061 | 0000 | 15 | 75 329 | 31 40.8'N | 30 1.4'E | 9 | 141.10 | 0010 | 431. | 615. | 0000 | 25 | 4219 | 0 | |
| | | | | | **COMMENTS** | | FLOW IN 60-615 CM | | | | | | | | | | | |
| CHN | 119 | 2 | 0061 | 0000 | 26 | 75 329 | 31 40.8'N | 30 1.4'E | 9 | 141.10 | 0010 | 431. | 120. | 0000 | 25 | 4212 | 0 | |
| CHN | 119 | 2 | 0062 | 0000 | 15 | 75 329 | 31 52.9'N | 29 38.1'E | 9 | 142.19 | 0011 | 1366. | 925. | 0000 | 24 | 4816 | 0 | |
| CHN | 119 | 2 | 0062 | 0000 | 26 | 75 329 | 31 52.9'N | 29 38.1'E | 9 | 142.19 | 0011 | 1366. | 84. | 0000 | 24 | 3428 | 0 | |
| CHN | 119 | 2 | 0064 | 0000 | 15 | 75 329 | 32 22.8'N | 29 13.5'E | 1 | 142.29 | 0012 | 2289. | 414. | 0000 | 24 | 3231 | 0 | |
| | | | | | **COMMENTS** | | DETRITUS INCREASES WITH DEPTH | | | | | | | | | | | |
| CHN | 119 | 2 | 0064 | 0000 | 26 | 75 329 | 32 22.8'N | 29 13.5'E | 1 | 142.29 | 0012 | 2289. | 40. | 0000 | 24 | 3339 | 0 | |
| CHN | 119 | 2 | 0068 | 0000 | 15 | 75 330 | 32 49.0'N | 28 43.7'E | 1 | 142.28 | 0013 | 2889. | 536. | 0000 | 10 | 8439 | 0 | |
| CHN | 119 | 2 | 0068 | 0000 | 26 | 75 330 | 32 49.0'N | 28 43.7'E | 1 | 142.28 | 0013 | 2889. | 88. | 0000 | 10 | 3266 | 0 | |
| CHN | 119 | 2 | 0070 | 0000 | 15 | 75 330 | 33 14.6'N | 28 15.4'E | 9 | 142.38 | 0014 | 3106. | 538. | 0000 | 10 | 4728 | 0 | |
| | | | | | **COMMENTS** | | FORAM SAND INCLUDES CONSIDERABLE DETRITUS | | | | | | | | | | | |
| CHN | 119 | 2 | 0070 | 0000 | 26 | 75 330 | 33 14.6'N | 28 15.4'E | 9 | 142.38 | 0014 | 3106. | 127. | 0000 | 10 | 4826 | 0 | |
| | | | | | **COMMENTS** | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | | |
| CHN | 119 | 2 | 0072 | 0000 | 15 | 75 330 | 33 19.4'N | 29 40.4'E | 9 | 142.39 | 0015 | 2828. | 968. | 0000 | 24 | 4818 | 0 | DISTAL FAN |
| CHN | 119 | 2 | 0072 | 0000 | 26 | 75 330 | 33 19.4'N | 29 40.4'E | 9 | 142.39 | 0015 | 2828. | 137. | 0000 | 24 | 4333 | 0 | DISTAL FAN |
| CHN | 119 | 2 | 0074 | 0000 | 15 | 75 331 | 33 14.8'N | 30 19.9'E | 9 | 141.30 | 0016 | 2523. | 1012. | 0000 | 24 | 3428 | 0 | |
| CHN | 119 | 2 | 0074 | 0000 | 26 | 75 331 | 33 14.8'N | 30 19.9'E | 9 | 141.30 | 0016 | 2523. | 119. | 0000 | 24 | 3333 | 0 | |
| CHN | 119 | 2 | 0076 | 0000 | 15 | 75 331 | 33 42.8'N | 30 40.9'E | 9 | 141.30 | 0017 | 2595. | 895. | 0000 | 24 | 3416 | 0 | ISIS RIDGE |
| CHN | 119 | 2 | 0076 | 0000 | 26 | 75 331 | 33 42.8'N | 30 40.9'E | 9 | 141.30 | 0017 | 2595. | 106. | 0000 | 24 | 3939 | 0 | ISIS RIDGE |

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 3438 | 0 | |
| 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 | 3938 | 0 | |
| 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 | 3438 | 0 | ISIS RIDGE |
| 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 | 3938 | 0 | ISIS RIDGE |
| 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 | 3238 | 0 | ISIS RIDGE |
| 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 | 3338 | 0 | ISIS RIDGE |
| CHN | 119 | 2 | 0083 | 0000 | 15 | 75 4 1 | 30 34.9'N | 31 16.3'E | 9 | 141.21 | 0021 | 1529. | 911. | 0000 | 24 | 3818 | 0 | |
| CHN | 119 | 2 | 0083 | 0000 | 26 | 75 4 1 | 30 34.9'N | 31 16.3'E | 9 | 141.21 | 0021 | 1529. | 66. | 0000 | 24 | 3338 | 0 | |
| 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 | 2465 | 0 | |
| | | | | | **COMMENTS** | | | SHELL HASH 36-50 CM | | | | | | | | | | |
| 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 | 2469 | 0 | |
| 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 | 3442 | 0 | ISIS RIDGE |
| 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 | 3432 | 0 | ISIS RIDGE |
| 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 | 3348 | 0 | ISIS RIDGE |
| 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 | 3338 | 0 | ISIS RIDGE |
| 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 | 4838 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | |
| 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 | 4833 | 0 | |
| 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 | 3338 | 0 | |
| 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 | 3933 | 0 | |
| 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 | 3343 | 0 | |
| 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 | 3322 | 0 | |
| 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 | 3332 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | |
| 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 | 3332 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE IS NANNO OOZE | | | | | | | | | | |
| 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 | 3338 | 0 | |
| | | | | | **COMMENTS** | | | CALC-SILIC OOZE 307-334 | | | | | | | | | | |
| 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 | 3328 | 0 | |
| 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 | 4338 | 0 | |
| 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 | 4339 | 0 | |
| 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 | 3738 | 0 | |
| | | | | | **COMMENTS** | | | WASHED AND UNSTRATIFIED; 0-88 AND 693-1294 | | | | | | | | | | |
| 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 | 3731 | 0 | |
| 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 | 3819 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | |
| 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 | 3819 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE INCLUDES FORAM SAND | | | | | | | | | | |
| 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 | 3818 | 0 | |
| | | | | | **COMMENTS** | | | CALC-SILIC OOZE 416-463 CM | | | | | | | | | | |
| 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 | 3332 | 0 | |
| 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 | 3432 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED TYPE IS HIGHLY CALC CLAY | | | | | | | | | | |
| 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 | 3338 | 0 | |
| 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 | 3338 | 0 | ISIS RIDGE |
| | | | | | **COMMENTS** | | | VOLCANIC ASH 503-505 CM | | | | | | | | | | |

********** STATION DATA RETRIEVAL ********** PAGE 3
********** DATE: 17:07 JUN 03,'77 ********** **WHOI**

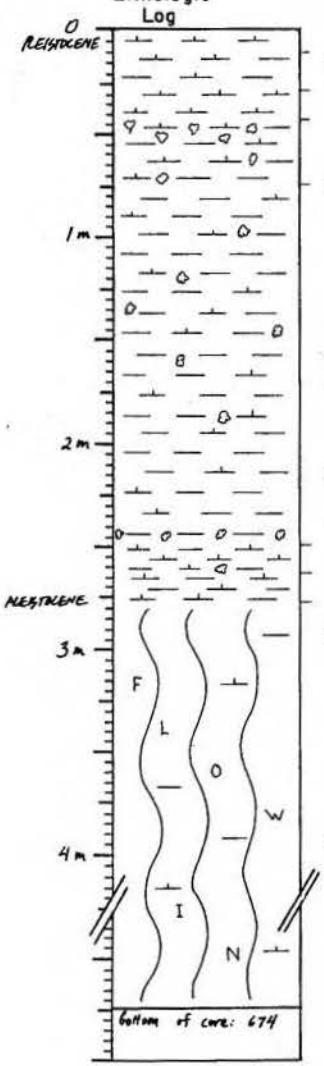
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 3348 | 0 | ISIS RIDGE |
| 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 | 4268 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS HIGHLY CALC CLAY | | | | | | | | | | |
| 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 | 3323 | 0 | |
| 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 | 4465 | 0 | |
| 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 | 4269 | 0 | |
| 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 | 4265 | 0 | |
| | | | | | **COMMENTS** | | | SHELL HASH: 97-103 CM | | | | | | | | | | |
| 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 | 4439 | 0 | |
| 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 | 3465 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARILY SHELL HASH | | | | | | | | | | |
| CHN | 119 | 2 | 0183 | 0000 | 20 | 75 410 | 32 8.2'N | 30 58.0'E | 9 | 141.20 | 0003 | 508. | 253. | 0000 | 24 | 4332 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED.TYPE INCLUDES DETRITUS | | | | | | | | | | |
| CHN | 119 | 2 | 0185 | 0000 | 20 | 75 410 | 31 36.9'N | 30 16.6'E | 3 | 141.10 | 0004 | 21. | 267. | 0000 | 24 | 2819 | 0 | |
| CHN | 119 | 2 | 0187 | 0000 | 20 | 75 411 | 31 16.0'N | 29 44.9'E | 3 | 142.19 | 0005 | 60. | 108. | 0000 | 24 | 3355 | 0 | |
| CHN | 119 | 2 | 0187 | 0000 | 13 | 75 411 | 31 16.0'N | 29 44.9'E | 3 | 142.19 | 0012 | 60. | 96. | 0000 | 24 | 3355 | 0 | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 10 Core No. 1 PC
Total Length 674 cm. Lat. 31° 11.1' N Long. 29° 16.7' E Depth 552 corr. m.
Core condition excellent Date Described 25 Sept 75 by H. FARMER
Physiographic location CONTINENTAL SHELF WEST OF ALEXANDRIA, EGYPT : EASTERN MED.

Lithologic Log




### Detailed Description

0-10
CALC OOZE
10 YR 5/3 brown with slight color variations throughout
no mottling
slightly silty lutite with few forams
S, concave up

10-27
CALC CLAY
varies from 10 YR 7/3 very pale brown to 10 YR 4/2 dark grayish brown; 1-3 cm layers with sharp concave up contacts
very little mottling except from 12-15 cm common
silty lutite in lighter colors, dark gray brown layers at 13-15, 23-24 are slick lutite, few forams
G (25-28 cm)

27-43
CALC OOZE
10 YR 6/3 pale brown
2 large mottles 1 x 2 cm, 10 YR 5/2 grayish brown
silty lutite with few forams
S, inclined 10°

43-73
CALC OOZE
10 YR 5/2 grayish brown
abundant small mottling (pale brown) which decreases near bottom; 2 larger mottles, 2 cm, dark grayish brown
silty lutite with few forams
S, inclined 10°

73-249
CALC CLAY
grades from 5 Y 3/2 very dark olive gray to 5 Y 4/2 olive gray and back to dark olive gray at bottom
small, very pale brown mottles common 83-170, 238-244, scattered 170-190; large burrow (2 x 5 cm) at 92, grayish brown 10 YR 5/2
firm lutite with a few forams and shell fragments
below 210 cm core is disturbed - 10 cm of dark olive gray has sheared up into olive gray
S, inclined 4°

249-263
CALC CLAY
10 YR 5/1 gray
medium size (5 mm) scattered mottles, olive gray
firm, slightly silty lutite with few forams and shell fragments
disturbed, with inclusions of neighboring units
S



## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 10 Core No. 1 PC

Lithologic Log

### Detailed Description

263-277
CALC CLAY
10 YR 4/1 dark gray
no mottling
slightly silty lutite, firm

277-674
CALC CLAY GRADES TO HIGHLY CALC CLAY
10 YR 4/1 dark gray, turns to 6/2 light brownish gray (~386 cm)
flow in
end of core

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

Ship: CHN  Core No. 1 PC

Expedition 119  Station No. 10

Leg No. 2  Total Core Length 674 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 1 | | | | 54 | 1 | 40 | | | 4 | | | | tr |
| 15 | calc clay | tr | | | tr | 92 | tr | 5 | tr | | 2 | | | | 1 |
| 32 | calc ooze | 1 | tr | | | 66 | tr | 25 | tr | | 8 | | | | tr |
| 66 | calc clay | tr | | | | 85 | tr | 10 | tr | | 5 | | | | tr |
| 80 | calc clay | tr | | | | 94 | tr | 5 | | | 1 | | | | |
| 180 | calc clay | tr | | | | 89 | tr | 7 | | tr | 3 | | | | 1 |
| 258 | calc clay | 2 | | | | 81 | tr | 10 | tr | | 4 | | | | 1 |
| 275 | calc clay | tr | | | | 92 | tr | 3 | tr | | 3 | | | | 2 |
| 375 | calc clay | 1 | | | | 87 | tr | 5 | tr | | 7 | | | | |
| 673 | highly calc clay | 1 | | | tr | 78 | 1 | 14 | tr | | 6 | | | | tr |



VISUAL CORE DESCRIPTION



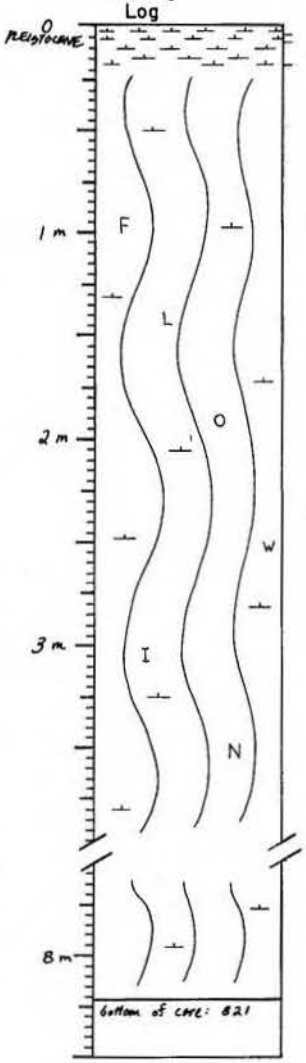
Ship CHAIN Cruise 119 Leg 2 Sta. 11 Core No. 2 PC

Total Length 821 cm. Lat. 31° 39.2' N Long. 28° 49.2' E Depth 1827 corr.

Core condition excellent Date Described 26 Sept 75 by H. Farmer

Physiographic location CONTINENTAL SHELF NW of ALEXANDRIA, EGYPT

Lithologic Log




Detailed Description

0-3
CALC OOZE
10 YR 6/4 light yellow brown
no mottling
silty lutite
discontinuous, dark gray-brown wedges in top 2 cm - somewhat disturbed up to 6 cm
S

3-7
CALC OOZE
10 YR 6/2 light olive gray
no mottling
very silty lutite
laminated
S, concave up

7-17
CALC OOZE
5 Y 5/2 olive gray
no mottling
very silty lutite with few forams
laminated from 2-5 mm thick; pyrite nodule at 10 (2 x 2 mm)
irregular, S

17-821
CALC OOZE
5 Y 6/2 light olive gray
no mottling
very silty lutite
flow in
end of core

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

Ship: CHN  Core No. 2 PC

Expedition 119  Station No. 11

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 | PYRITE |
| 1 | calc ooze | tr | | | tr | 32 | 1 | 65 | tr | | 2 | | | | tr |
| 5 | calc ooze | tr | | | | 41 | 1 | 40 | tr | | 18 | | | | tr |
| 14 | calc ooze | tr | | | | 31 | 1 | 50 | tr | | 18 | | | | tr |
| 114 | calc ooze | 1 | | | | 36 | 2 | 50 | tr | | 13 | | | | tr |
| 820 | calc ooze | 1 | | | | 35 | 2 | 55 | tr | | 7 | | | | tr |

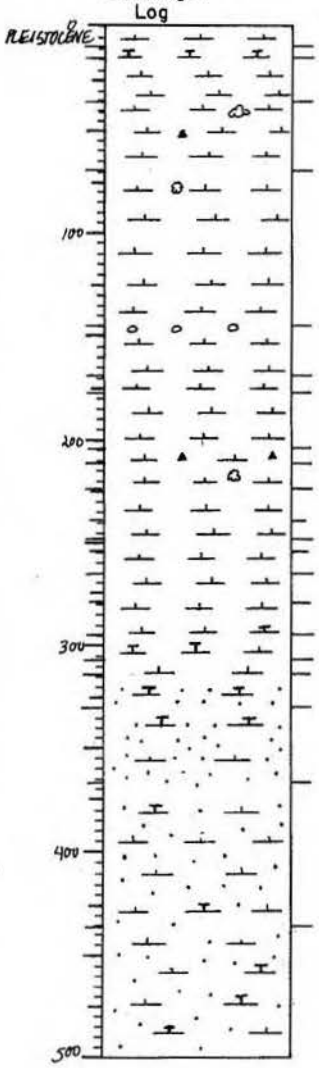


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 13 Core No. 3 PC
Total Length 573 cm. Lat. 32° 07.8' N Long. 28° 24.7' E Depth 2778 corr m.
Core condition excellent Date Described 3 Dec 75 by T Farmer
Physiographic location LOWER CONTINENTAL SLOPE NW OF ALEXANDRIA, EGYPT - MED SEA

Lithologic Log




Detailed Description

0-8
CALC OOZE
10 YR 6/4 light yellow brown
no mottling
slightly silty lutite with few forams
top 40 cm are disturbed with distorted laminations and large smears along core liner
distorted contact

8-14
CALC OOZE
10 YR 7/4 very pale brown
no mottling apparent
slick lutite grading into 1 cm of laminated foram sand
distorted contact

14-36
CALC OOZE
10 YR 6/3 pale brown grades to 10 YR 6/6 brownish yellow
no mottling
silty lutite, forams grade from occasional to common
29-30 distorted dark yellow brown (10 YR 4/4) band; 34 - thin, distorted band of lower unit
distorted contact

36-69
CALC OOZE
5 Y 3/2 dark olive gray
scattered small light gray mottling 39-44
slightly silty lutite, scattered forams and shell fragments
45-47 void, sapropel-like material with very fine white laminations
very gradational

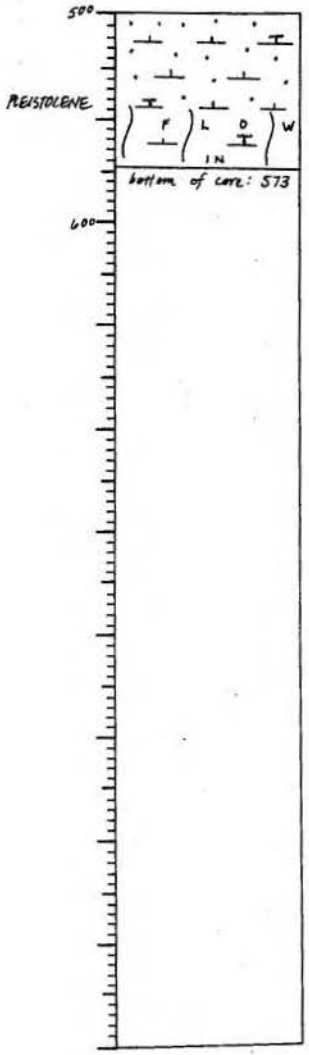
69-145
CALC OOZE
5 Y 6/2 light olive gray grades to variations of light brownish yellow (10 YR 6/4) to 10 YR 6/3 pale brown, light olive brown 2.5 Y 5/6
scattered mottling from 69-81 of above unit; common from 118-121 of above unit
slightly silty lutite, scattered forams and shell fragments
gradational

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 13 Core No. 3 PC

Lithologic Log




Detailed Description

145-168
CALC OOZE
10 YR 7/4 very pale brown with gradational bands
small scattered mottles of above from 145-149
silty lutite with scattered forams, grades into biogenic sand (161-168) with pebbles (1x2 cm) of laminated lithified lutite
S

168-177
CALC OOZE
distorted bands of 5 Y 5/2, 4/2, 3/2 olive gray to dark olive gray (sapropel)
no mottling apparent
lutite with scattered forams
S, distorted

177-204
CALC OOZE
5 Y 4/4 olive
no mottling
homogeneous lutite with occasional very fine, dark distorted laminations
177-181 interbedded with above
S

204-211
CALC OOZE
5 Y 3/2 dark olive gray
no mottling
slightly silty lutite with abundant forams and pteropods
sapropel-like material with faint, very fine laminations
G

211-224
CALC OOZE
5 Y 4/2 olive gray grades to 6/2 light olive gray
scattered dark mottles from above
silty lutite scattered forams and pteropods
sequence from 204-224 repeated 224-248, 248-265, 265-294
S

294-307
CALC OOZE
10 YR 7/3 very pale brown
no mottling
sand, grades from very fine to fine
subtle color laminations
S



VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 13 Core No. 3 PC

Lithologic Log

Detailed Description

307-314
CALC OOZE
5 Y 6/2 light olive gray
no mottling
silty lutite with scattered forams
S

314-330
CALC OOZE/DETRITUS
2.5 Y 4/4 olive brown
no mottling
medium-coarse sand
326-330 pale brown lutite clast mixed with coarse sand
S

330-367
DETRITUS/CALC OOZE
2.5 Y 5/4 light olive brown
no mottling
medium sand
340-355 intermixed gradational bands of dark gray brown 2.5 Y 4/2
S

367-463
CALC OOZE/DETRITUS
dark gray brown 2.5 Y 4/2
no mottling
fine to medium homogeneous detrital sand
G

436-543
laminations (2-10 mm) of dark gray brown (2.5 Y 4/2) silt-fine sand (CALC OOZE/DETRITUS) and olive (5 Y 4/4) silty lutite (HIGHLY CALC CLAY)

543-573
flow in of above material, sandy lutite (CALC OOZE)
end of core

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

Ship: CHN  Core No. 3 PC

Expedition 119  Station No. 13

Leg No. 2  Total Core Length 573 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 2 | calc ooze | 1 | | | tr | 7 | 11 | 75 | 2 | tr | 5 | | | | |
| 13 | calc ooze | 3 | | | | 11 | 25 | 51 | 2 | | 8 | | | tr | |
| 50 | calc ooze | tr | | | tr | 27 | 4 | 55 | 2 | tr | 4 / 5* | | | | 3 |
| 161 | calc ooze | tr | | | | 8 | 35 | 32 | 2 | | 23 | | | | |
| 250 | calc ooze | tr | | | | 40 | 3 | 45 | 1 | | 2 / 1* | | | | 8 |
| 256 | calc ooze | tr | | | 2 | 52 | 2 | 40 | tr | tr | 4 | | | | tr |
| 300 | calc ooze | 1 | | | | 7 | 40 | 3 | 20 | | 29 | | | | tr |
| 321 | calc ooze/ detritus | 45 | | | | 8 | 10 | 2 | 4 | | 31 | | | | |
| 360 | detritus/ calc ooze | 65 | | | | 10 | | | | | 25 | | | | |
| 475 | calc ooze/ detritus | 30 | | | | 6 | 5 | 3 | 1 | tr | 55 | | | | tr |
| 482 | highly calc clay | 5 | | | tr | 73 | tr | 2 | | tr | 20 | | | | tr |
| 572 | calc ooze | 2 | | | | 47 | | tr | | tr | 50 | | | | 1 |

*brown to black "organic" material



VISUAL CORE DESCRIPTION



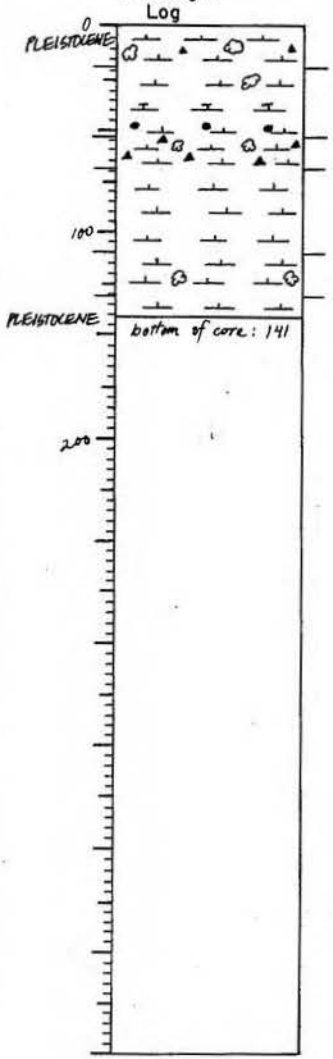
Ship CHAIN Cruise 119 Leg 2 Sta. 13 Core No. 3 PG

Total Length 141 cm. Lat. 32° 07.8' N Long. 28° 24.7' E Depth 2779 corr m

Core condition excellent Date Described 3 Dec 75 by T Farmer

Physiographic location Lower Continental Slope NW of Alexandria, Egypt - Med. Sea

Lithologic Log




Detailed Description

Due to a repetitious sequence of lithologies, multiple penetration (pilot core rebound) is suspected. Excepting the top 35 cm (PG) which were not recovered by the piston core, there is excellent correlation between the lithologies of the 2 cores, with the pilot compacted to 1/2 the length of the piston core (35-126 PG equals 0-175 PC). However, the lowest 16 cm of the pilot repeat the sequence previously sampled from 68-108 PG, whereas the piston core sampled 7 cm of foram sand at this depth. Thus, after the PG "rebounded" and began its second penetration, it apparently "blew by" the top sediment and did not begin sampling until 68 cm PG (due to the inertia of the mud already recovered during the previous penetration).

0-18
CALC OOZE
5 Y 3/2 dark olive gray
scattered small very pale brown mottles
soft lutite with pteropods
sapropel-like material with very fine laminae, small void at 18 cm
G

18-53
CALC OOZE
grades from 5 Y 5/2 olive gray to 10 YR 7/4 very pale brown to 10 YR 6/4 light yellow brown
scattered (18-26) mottling of above unit
silty lutite with scattered pteropods and forams
laminations of foram silt/sand 40, 42-43, dark brown streaks intermixed 48-51
S

53-69
CALC OOZE WITH PYRITE
5 Y 3/2 dark olive gray
small, very pale brown mottles common 56-64
soft lutite with scattered forams and pteropods
sapropel-like material
G

69-110
CALC OOZE
grades from 5 Y 5/2 olive gray to 10 YR 7/4 very pale brown
no mottling
silty lutite with scattered forams
slightly darker band 88-92 cm and 2.5 Y 5/6 light olive brown 102-104

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 13 Core No. 3 PG

Lithologic Log

Detailed Description

110-126
CALC OOZE
10 YR 6/3 pale brown grades to 7/4 very pale brown
scattered pale brown mottles 119-126 cm
smooth, silty lutite with occasional forams
S
126-141
repeat of sequence from 68-110
end of core



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

Ship: CHN Core No. 3 PG

Expedition 119 Station No. 13

Leg No. 2 Total Core Length 141 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | tr | 40 | 2 | 51 | tr | | 3/2* | | | | 2 |
| 50 | calc ooze w/ Mn nodules | tr | 15 | | | 7 | 5 | 65 | 1 | | 7 | | | | |
| 65 | calc ooze w/ pyrite | tr | | | | 15 | 4 | 45 | 1 | | 5/5* | | | | 25 |
| 80 | nanno ooze | tr | | | | 5 | 1 | 90 | tr | tr | 4 | | | | |
| 115 | calc ooze | tr | | | | 30 | 2 | 58 | tr | tr | 10 | | | | |
| 124 | calc ooze | tr | | | | 30 | 5 | 48 | 2 | tr | 15 | | | | |
| 140 | calc ooze | 2 | | | | 12 | 1 | 64 | 1 | | 20 | | | | |

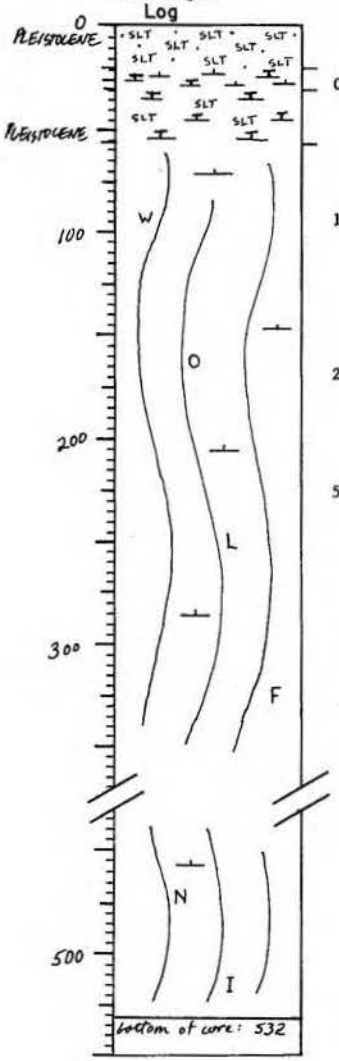
*brown sapropelic ("organic") material

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 15 Core No. 4 PC
Total Length 532 cm. Lat. 32° 47.1' N Long. 27° 48.4' E Depth 3130 corr m.
Core condition excellent, stratigraphy suspect Date Described 16 Nov 75 by T. Farmer
Physiographic location Herodotus Basin, Eastern Med. Sea.

Lithologic Log




### Detailed Description

0-19
CALC OOZE/DETRITUS
10 YR 3/3 dark brown
homogeneous throughout
grades from very fine to fine sand
appears to have been washed in core liner
S

19-29
CALC OOZE
10 YR 7/3 very pale brown and 6/2 light brownish gray
lutite
19-26 original laminations are folded and distorted, includes wedge of 10 YR 3/2 very dark gray-brown slick lutite, 26-29 fairly true
S

29-56
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown - somewhat lighter towards bottom
couple small black smears
grades from slick lutite to medium sand

56-532
CALC OOZE
10 YR 4/2 dark grayish brown
soupy lutite
flow in
This entire core is suspect because of the very poor correlation with the pilot. In particular, the presence of fine sand at the top (absent in pilot) and the absence of a sapropelic layer between the third and fourth unit (present from 37-50 in pilot) are disturbing
end of core



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

Ship: CHAIN Core No. 4 PC
Expedition 119 Station No. 15
Leg No. 2 Total Core Length 532 cm

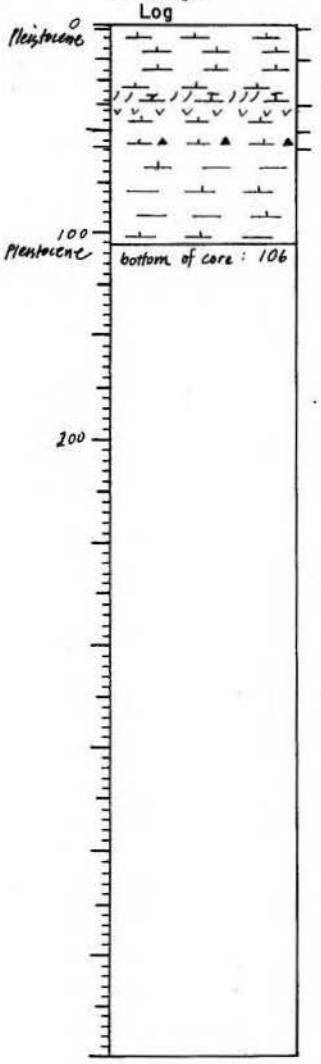
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze/ detritus | 50 | | | | | 17 | 2 | 1 | | 30 | | | | tr |
| 18 | calc ooze | 1 | | | | 5 | 29 | 30 | 5 | | 30 | | | | |
| 32 | calc ooze/ detritus | 30 | | | | 1 | 23 | 4 | 5 | | 37 | | | | tr |
| 70 | calc ooze with detritus | 15 | | | | 30 | 2 | 43 | 2 | | 8 | | | | |
| 531 | calc ooze | 7 | | | | 35 | tr | 54 | | | 4 | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 15 Core No. 4 PG
Total Length 106 cm. Lat. 32° 47.1' N Long. 27° 48.4' E Depth 3130 corr. m.
Core condition excellent Date Described 16 Nov 75 by T Farmer
Physiographic location Herodotus Basin, Eastern Med. Sea

Lithologic Log




### Detailed Description

0-2
void produced as top sediment was compacted because no end cap on core liner

2-15
CALC OOZE
10 YR 7/3 very pale brown
light gray mottles down to 8 cm, fine, light gray and red-brown laminae, 8-15
smooth, slick lutite
compaction features evident 2-6
S horizontal

15-37
CALC OOZE
10 YR 6/2 light brownish gray
no mottling, but innumerable tiny black flecks
smooth, slick lutite with cross-bedded, laminated foram sand 32-37
S, slightly inclined

37-50
CALC OOZE
10 YR 6/4 light yellowish brown, slightly paler near bottom
subdued grayish mottles common 46-50
slightly silty lutite with common forams
41 cm - 3 mm yellow-brown bed of volcanic ash
S, slightly inclined

50-58
CALC OOZE (sapropel)
2.5 Y 3/2 very dark grayish brown
slick lutite with common forams and pteropods
S, horizontal

58-106
CALC CLAY
5 Y 3/2 dark olive gray
homogeneous throughout
slick, smooth lutite
90 - 1 cm bed of above unit
end of core



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

Ship: CHN Core No. 4 PG
Expedition 119 Station No. 15
Leg No. 2 Total Core Length 106 cm

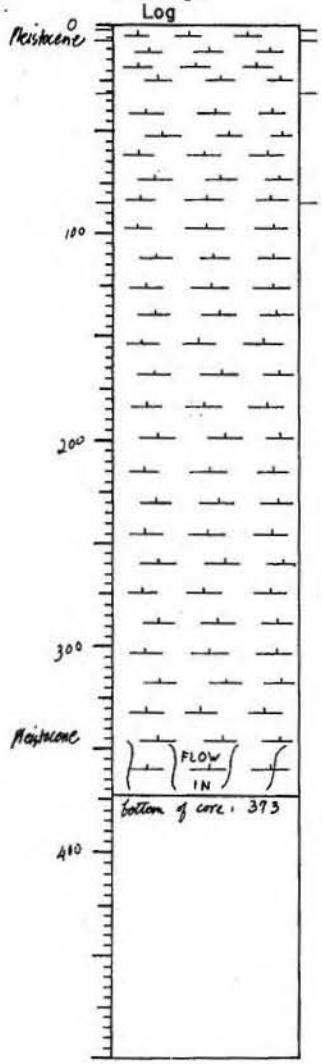
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 4.5 | calc ooze | 1 | | | | 53 | 5 | 30 | 1 | tr | 10 | | | | |
| 32 | calc ooze (foram sand) | 2 | | | | 5 | 50 | 28 | 3 | tr | 12 | | | tr | tr |
| 41 | volcanic ash | 2 | | | 92 | | 1 | 2 | | | 3 | | | | |
| 46 | calc ooze | 1 | | | | 21 | 2 | 70 | 1 | | 5 | | | | |
| 55 | calc ooze | 4 | | | | 10 | 4 | 62 | 1 | | 8 | | | | 12 |
| 105 | calc clay | 10 | tr | | 2 | 71 | tr | 6 | | | 8 | | | | 3 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 17 Core No. 5 PC
Total Length 373 cm. Lat. 33° 10.7' N Long. 27° 05.2' E Depth 2698 corr. m.
Core condition excellent Date Described 17 Nov 75 by T Fermar
Physiographic location LOWER SOUTH FLANK, MEDITERRANEAN RIDGE, E. MED. SEA

Lithologic Log




### Detailed Description

0-1
CALC OOZE
10 YR 6/6 brownish yellow
silty lutite
S

1-6
CALC OOZE
5 Y 7/1 light gray
homogeneous throughout
silty lutite with scattered forams
very irregular

6-31
NANNO OOZE
5 Y 8/1 white
very homogeneous throughout
stiff silty lutite with scattered forams
void at 31, was initially bigger but has been filled by slumping of white unit
sharp, void at 30-31

31-85
CALC OOZE
5 Y 7/1 light gray grades into 6/1 gray ~53 cm
a few mottles of both white and dark olive gray
firm, silty lutite with scattered forams 31-53 and abundant forams 53-85
1 cm void at 51
S

85-348
CALC OOZE
5 Y 3/2 dark olive gray, 5 Y 8/1 white, 7/1 light gray, and 6/1 gray
whole core has disturbed appearance, but it is extremely apparent below 85 where intense marbling occurrs between white, light gray and gray 168-169, 220-222, 271-275, 283-286, 294-300, 347-352
firm silty lutite with scattered and common forams, abundant from 95-110
sapropel-like wedges (sheared and distorted beds?)

348-373
CALC OOZE
flow in



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

Ship: CHN Core No. 5 PC
Expedition 119 Station No. 17
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 | PYRITE |
| 1 | calc ooze | 2 | tr | | tr | 32 | 3 | 60 | tr | | 3 | | | | |
| 18 | nanno ooze | tr | | | | 4 | tr | 95 | tr | tr | 1 | | | | |
| 80 | calc ooze | 1 | | | | 24 | 15 | 53 | 1 | | 4 | | | | 2 |
| 160 | nanno ooze | 1 | | | | 9 | 1 | 88 | tr | tr | 1 | | | | tr |
| 272 | calc ooze | tr | | | | 41* | 7 | 45* | tr | tr | 2 | | | | 5 |
| 372 | calc ooze | tr | tr | | | 24 | 3 | 70 | tr | tr | 3 | | | | tr |

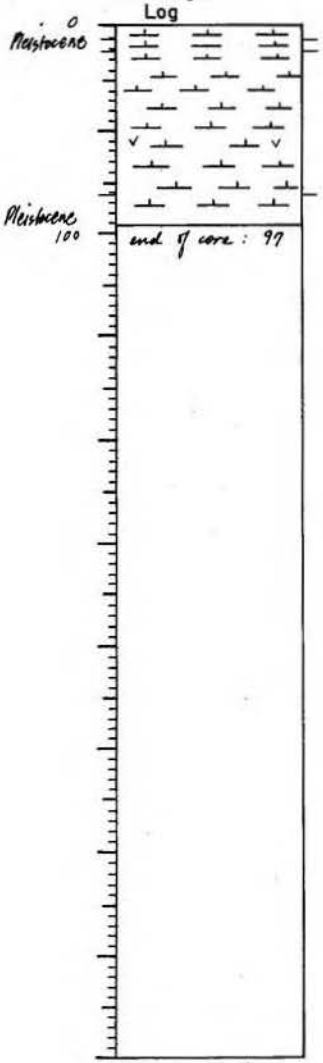
* about 1/2 of the clay and nannos are stained by a light-to-dark brown discoloration

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 17 Core No. 5 PG
Total Length 97 cm. Lat. 33° 10.7' N Long. 27° 05.2' E Depth 2698 corr. m.
Core condition excellent Date Described 17 Nov 75 by H. Farmer
Physiographic location LOWER SOUTH. FLANK, MED. RIDGE, E. MED. SEA

Lithologic Log




### Detailed Description

0-5.5
NANNO OOZE
10 YR 6/4 light yellow brown
silty lutite with scattered forams
S, horizontal

5.5-11
CALC OOZE
10 YR 7/3 very pale brown
heavily mottled with above unit
silty lutite with scattered forams, gradational contact

11-82
CALC OOZE
10 YR 6/3 pale brown, grades generally into 10 YR 5/6 yellow-brown, but an array of intermediate shades are present in the laminations which vary from 3 mm to several cm; trends back to 6/4 light yellow brown and pale brown from 61-81 cm
very faint mottles are scattered throughout the subdued laminations
silty lutite with scattered forams
55-56 very firm but crumbly bed of calc ooze with volcanic ash - very gradational contact

82-97
CALC OOZE
10 YR 6/2 light brownish-gray, grades smoothly into 7/2 light gray
a few very dark gray fine laminae and a couple medium size mottles of same color
silty lutite with scattered forams
end of core



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

Ship: CHN Core No. 5 PG
Expedition 119 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 |
| 1 | nanno ooze | tr | tr | | tr | 19 | 2 | 75 | 2 | | 2 | | | |
| 13 | calc ooze | 2 | tr | | | 18 | 2 | 75 | tr | tr | 3 | | | |
| 55.5 | highly calc clay | tr | tr | | 5* | 71 | tr | 20 | tr | | 4 | | | |
| 95 | calc ooze | 3 | | | | 42 | 4 | 40 | 1 | tr | 10 | | | |

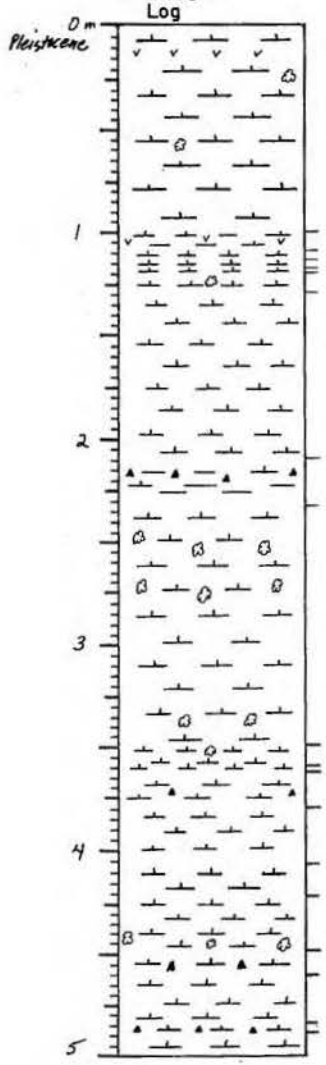
*very fine, silicious needles

## VISUAL CORE DESCRIPTION



Ship CHN Cruise 119 Leg 2 Sta. 22 Core No. 6 PC
Total Length 697 cm. Lat. 33° 15.8' N Long. 26° 00.9' E Depth 2372 corr. m.
Core condition excellent Date Described 3 Nov 75 by H. FARMER
Physiographic location MEDITERRANEAN RIDGE, EASTERN MED. SEA

Lithologic Log




### Detailed Description

0-100
CALC OOZE
subtle gradational banding (~2 cm wide) within the color 10 YR 6/4 light yellow brown, fewer bands of 10 YR 7/4 very pale brown in top 25 cm
few mottles throughout
silty lutite with occasional pteropods and forams
14-15 crumbly layer, lutite, dark brown; 39-40 subdued grayish band
S

100-108
HIGHLY CALC CLAY WITH VOLCANIC ASH
10 YR 3/2 very dark gray brown
no mottling
crumbly, semi-lithified lutite
S

108-113
CALC OOZE
10 YR 6/3 pale brown and 10 YR 3/2 very dark gray brown (in fine laminations?) smeared together with slight influence of lower unit
slightly silty lutite

113-117
CALC OOZE
1-10 mm laminations of 10 YR 5/6 and 5/8 yellowish brown with a few very fine gray to white laminations at bottom
slightly silty lutite, scattered forams
S

117-119
CALC OOZE
5 Y 3/2 dark olive gray
few pale brown mottles
slightly silty lutite
S

119-128
CALC OOZE
5 Y 6/1 gray to light gray
scattered, very dark gray-brown mottles
silty lutite with scattered forams only at top, and few pteropods
sharp, mottled with lower unit

128-209
CALC OOZE
gradational banded unit primarily of 10 YR 7/3 very pale browns with 10 YR 6/2 light brownish gray 164-174
medium light gray mottles 174-177
silty lutite with scattered forams except abundant 202-207 and common pteropods 169-174
151-153 light olive brown band
S

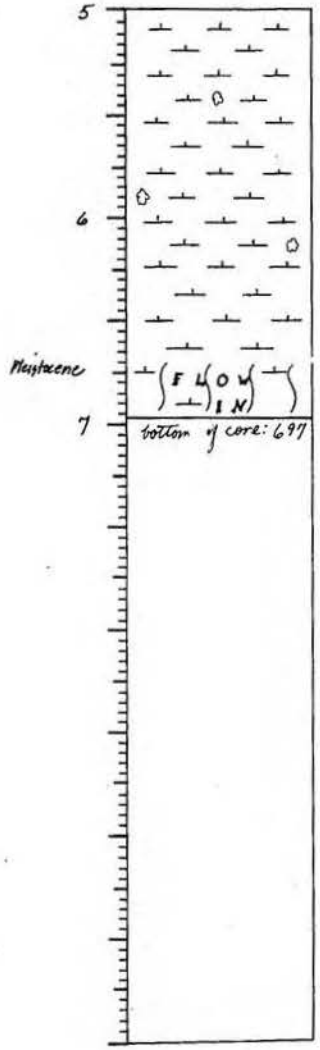


## VISUAL CORE DESCRIPTION



Ship CHN Cruise 119 Leg 2 Sta. 22 Core No. 6 PC

Lithologic Log




### Detailed Description

209-232
CALC CLAY
10 YR 2.5/1 black becomes slightly browner in lower 5 cm
abundant small pale brown mottles 209-218 (or incomplete microlams?)
very fine humus texture (organic lutite)
sapropelic material
S

232-349 - - CALC OOZE
5 Y 7/1 light gray grades into ( 283 cm) 10 YR 6/3 pale brown which grades to very pale brown at 335 cm
abundant medium gray mottles 232-283 and scattered mottles of pale brown from 330-350
firm lutite with scattered forams and few pteropods
S

349-359
CALC OOZE
2.5 Y 4/2 dark grayish brown in somewhat disturbed pattern with 10 YR 5/2 grayish brown
a few mottles of above color
slightly silty lutite grades into a silt
S

359-362
CALC OOZE
5 Y 6/2 light olive gray
no mottles
slightly silty lutite
S

362-378
CALC OOZE
5 Y 3/2 dark olive gray
no mottles
firm, very silty lutite with scattered forams
sapropel with extremely fine microlaminations (?) 368-378
S

378-407
CALC OOZE
5 Y 7/1 light gray grading to 10 YR 7/3 very pale brown
a very few small black mottles
firm lutite with few forams
S, bottom end of section 3

407-421
CALC OOZE
5 Y 3/2 dark olive gray
abundant mottles grading to few very pale brown mottles (incomplete microlaminations?) 407-414
very fine humus texture with scattered forams except 418-419 abundant
sapropelic material
S

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 22 Core No. 6PC

Lithologic Log

### Detailed Description

421-448
CALC OOZE
grades from 5 Y 6/1 gray to 7/2 light gray to 6/2 light olive gray with subdued banding
small, very light grey mottles common 425-427; abundant very subdued small mottles 439-448 cm
stiff lutite, forams increase from few to abundant (438-448)
S

448-460
CALC OOZE
5 Y 3/2 dark olive gray
456-460 abundant, very pale small brown mottles
very silty organic lutite
sapropel-like material with subdued fine laminations (452-460); irregular wedges of 10 YR 4/2 dark grayish brown (448-452)
S

460-483
CALC OOZE
grades from 5 Y 6/1 gray to light gray (6/2) to 10 YR 6/3 pale brown, 7/4 light gray
463-465 5 Y 6/1 small mottles common
firm lutite with few forams, except 477-483 common
S

483-487
CALC OOZE
5 Y 3/2 dark olive gray
scattered small very pale brown mottles
silty organic lutite
sapropelic material
S

487-670
CALC OOZE
10 YR 5/1 gray grading to 6/2 light brownish gray to bands of various pale browns (6/3), bands of 6/4 and 5/4 yellow brown also present
abundant small gray 5/1 mottles 487-489; small mottles of above colors scattered to common in many small areas
stiff, slightly silty lutite with few forams, except common at 536, 577-591, 650-660
581-586 gray layer similar to previous ones that underlie dark organic beds - but no dark unit above it
G

670-697
NANNO OOZE
10 YR 6/6 brownish yellow
no mottling
slightly silty lutite with scattered forams
flow in
end of core





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

Ship: CHN Core No. 6 PC

Expedition 119 Station No. 22

Leg No. 2 Total Core Length 697 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 4 | tr | | | 32 | 3 | 40 | 1 | | 16 | | | | |
| 14.5 | highly calc clay w/vol.ash | tr | | | 20 | 60 | tr | tr | | | 20 | | | | |
| 106 | highly calc clay w/vol.ash | 1 | tr | | 15 | 55 | tr | 8 | tr | | 21 | | | | |
| 111 | calc ooze | tr | 1 | | | 40 | 3 | 50 | 1 | tr | 6 | | | | |
| 115 | calc ooze | 1 | | | | 40 | 2 | 50 | 1 | | 8 | | | | |
| 118 | calc ooze | tr | | | | 43 | 4 | 40 | tr | tr | 13 | | | | tr |
| 124 | calc ooze | 2 | | | | 54 | 3 | 30 | tr | tr | 11 | | | | |
| 195 | calc ooze | tr | | | | 53 | 2 | 30 | tr | | 15 | | | | |
| 223 | calc clay | 2 | | | | 10/64* | 4 | 2 | | tr | 3 | | | | 15 |
| 244 | calc ooze | tr | | | | 36 | 1 | 50 | tr | | 12 | | | | 1 |
| 325 | calc ooze | 1 | tr | | | 58 | 1 | 30 | tr | | 10 | | | | |
| 352 | calc ooze | 1 | | | 1 | 15 | 10 | 65 | 1 | | 5 | | | | 2 |
| 370 | calc ooze | tr | tr | | | 8/15* | 5 | 63 | 1 | tr | 4 | | | | 4 |
| 409* | calc ooze | 1 | tr | | | 53/10* | 4 | 15 | 1 | | 10 | | | | 2 |
| 442 | calc ooze | tr | tr | | | 45 | 10 | 37 | 1 | | 7 | | | | |

(contd.)

*light to dark brown stained (sapropel?) material that appears sometimes as clayey, or nannos, or even silt sized calc particles.

*sampled from pale brown lamination in sapropel.

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

Ship: CHN  Core No. 6 PC (contd.)

Expedition 119  Station No. 22

Leg No. _____  Total Core Length 697 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 487 | calc ooze | tr | | | tr | 35 | 2 | 53 | 3 | tr | 7 | | | | tr |
| 580 | calc ooze | tr | 1 | | | 40 | 3 | 43 | tr | | 3 | | | | |
| 696 | nanno ooze | tr | tr | | | 18 | 4 | 76 | tr | | 2 | | | | |



VISUAL CORE DESCRIPTION



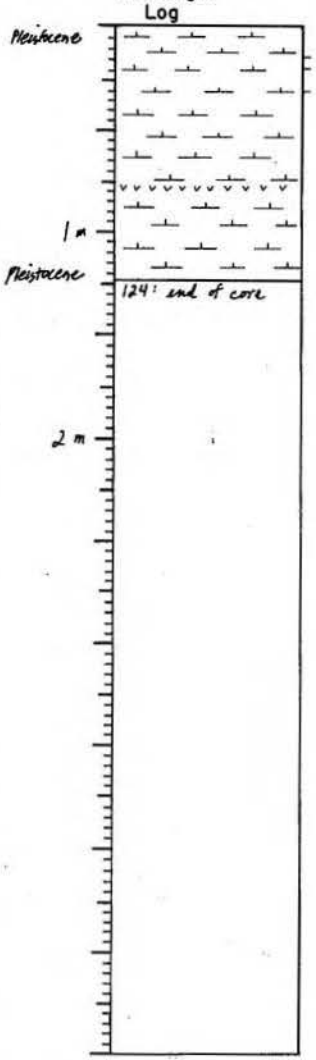
Ship CHAIN Cruise 119 Leg 2 Sta. 22 Core No. 6 PG

Total Length 124 cm. Lat. 33° 15.8' N Long. 26° 00.9' E Depth 2372 corr m

Core condition excellent Date Described 3 Nov 75 by H. FARMER

Physiographic location MEDITERRANEAN RIDGE, EASTERN MED.

Lithologic Log




Detailed Description

0-14
CALC OOZE
10 YR 6/4 light yellowish brown
0-5 medium size, faint, dark brown mottles
slightly silty lutite with scattered forams and pteropods
S

14-19
CALC OOZE
5 Y 3/2 dark olive gray
abundant, small, pale brown mottling
slightly silty lutite with forams and pteropods common
sapropel zone
G

19-30
CALC OOZE
5 Y 6/1 light gray (grades from dark to light)
abundant, small, dark gray mottles
silty lutite with common forams
G

30-124
CALC OOZE
10 YR 6/4 light yellow-brown appears as subdued bands (2 cm) with irregular contacts
small mottles are scattered from 40-60 and 72-75 cm
silty lutite with a few pteropods
79-80 cm slightly darker brown, crumbly lutite (highly calc clay)
104-109 light gray (5 Y 7/2), thin, convoluted layer
end of core

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

Ship: CHN  Core No. 6 PG

Expedition 119  Station No. 22

Leg No. 2  Total Core Length 124 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | calc ooze | tr | tr | | | 25 | 6 | 65 | 3 | tr | 1 | | | | tr |
| 16 | calc ooze | tr | | | | 45 | 4 | 40 | 2 | tr | 1 | | | | 8 |
| 24 | calc ooze | tr | | | | 35 | 5 | 50 | 4 | | 5 | | | | 1 |
| 60 | calc ooze | fine silt 8 | | | | 36 | 1 | 50 | tr | tr | 5 | | | | |
| *79 | highly calc clay | fine silt 5 | | | 7' | 66 | 1 | 6 | tr | | 15 | | tr | | |
| 122 | nanno ooze | 1 | | | | 6 | 2 | 89 | tr | | 2 | | | | |

*stiff lutite layer (1 cm)

'mostly very fine glass needles

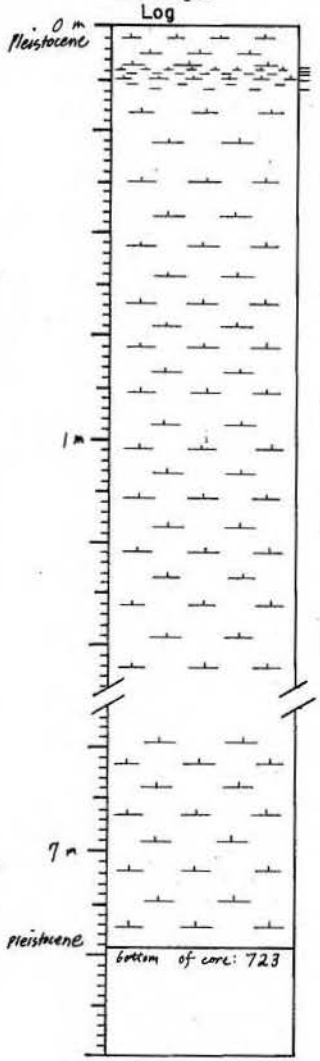


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 25 Core No. 7 PC
Total Length 723 cm. Lat. 32° 20.3' N Long. 26° 56.7' E Depth 3196 corr. m.
Core condition excellent Date Described 28 Sept 75 by H. Farmer
Physiographic location HERODOTUS BASIN, EASTERN MED. SEA

Lithologic Log




Detailed Description

0-9
CALC OOZE
2.5 Y 6/2 light brown-gray
no mottling
fine silt
sharp, irregular

9-10
NANNO OOZE
2.5 Y 6/4 light yellow brown
no mottling
soft silty lutite with few forams
S

10-10.5
UNFOSS CLAY
2.5 Y 3/2 very dark gray brown
no mottling
soft lutite
S

10.5-12
CALC OOZE
5 Y 6/1 light gray/gray
no mottling
soft lutite
sharp, irregular

12-14
UNFOSS CLAY
2.5 Y 3/2 very dark gray brown
no mottling
soft lutite
S

14-723
CALC OOZE
2.5 Y 5/2 grayish brown
no mottling
lutite
very uniform, no indication of flow in, although it is suspected; at 14 cm - 5 mm of silty lutite, 2.5 Y 6/4 light yellow brown; 128-131 cm 5 Y 5/1 gray band
end of core

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

Ship: CHN  Core No. 7 PC

Expedition 119  Station No. 25

Leg No. 2  Total Core Length 723 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | tr | | tr | 26 | 2 | 40 | 2 | tr | 30 | | | tr | tr |
| 9.5 | nanno ooze | 1 | tr | | | 6 | 2 | 86 | 1 | tr | 4 | | | | |
| 11 | calc ooze | 1 | | | | 50 | tr | 8 | tr | tr | 40 | | | | 1 |
| 13 | unfoss. clay | 10 | | | tr | 90 | | tr | | tr | tr | | | | 1 |
| 113 | calc ooze | 3 | | | tr | 45 | tr | 45 | tr | tr | 7 | | | | tr |
| 213 | calc ooze | 2 | | | | 60 | tr | 35 | tr | tr | 3 | | | | tr |
| 313 | calc ooze | 3 | | | | 47 | tr | 45 | tr | tr | 5 | | | | tr |
| 413 | calc ooze | 1 | | | | 60 | | 36 | tr | tr | 3 | | | | tr |
| 513 | calc ooze | 3 | | | | 57 | tr | 35 | tr | tr | 5 | | | | tr |
| 613 | calc ooze | 1 | | | | 37 | tr | 59 | 1 | tr | 2 | | | | |
| 722 | calc ooze | 1 | | | | 66 | tr | 30 | 1 | tr | 2 | | | | |



VISUAL CORE DESCRIPTION



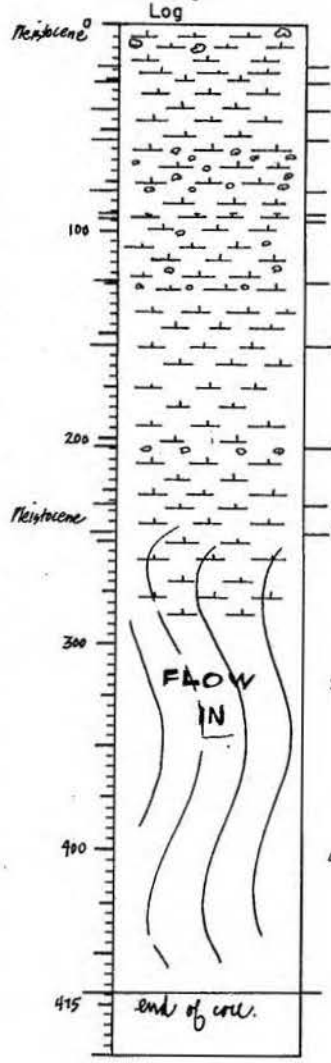
Ship CHAIN Cruise 119 Leg 2 Sta. 27 Core No. 8PC

Total Length 469 cm. Lat. 31° 49.8'N Long. 27° 43.9'E Depth 2738 m.corr.

Core condition EXCELLENT Date Described 11 NOV. 75 by J. Broda

Physiographic location HERODOTUS BASIN, E. MEDITERRANEAN SEA.

Lithologic Log




Detailed Description

0-18
CALC OOZE
10 YR 6/4 light yellowish brown and 7/4 very pale brown
intermottling and marbling of the colors above plus very dark gray and dark grayish brown inclusions (disturbed laminae) in the zone 8-14 cm
unconsolidated lutite with varying foram content - at most, abundant, but generally few
entire section (in short liner) is somewhat disturbed and disoriented. Stratigraphic features are preserved but horizons are inclined sharply or broken. 1 cm wide dark laminations are found in the zone 8-14 cm. NOTE: After comparison with pilot core it appears that the first 12 cm of the piston core represent the top 30 cm of the sediment recovered by the pilot core in a compacted condition. It appears that the piston was immobile during initial moments of penetration and recovered (and compacted) only as much sediment as would fit in the catcher cutter assembly (approximately 12 cm + water). The rest of the core represents what was recovered after the piston began to move - and by the pilot's record it would seem that at least 50 cm have been missed or "blown by".
S, irregular

18-26
CALC OOZE
2.5 Y 7/2 light gray
no mottling apparent
stiff, somewhat silty lutite with small lithified lumps included; also a wedge of foram sand appears 22-24 cm, stratification questionable
S, horizontal

26-40
CALC OOZE
5 Y 7/2 light gray and 6/1 gray
marbled, somewhat disturbed combination of the colors above with a few olive gray inclusions in the zone 30-32 cm
firm, slightly silty lutite intermittently contacts sharply and irregularly with beds of silty foram sand
S

40-55
CALC OOZE
10 YR 6/4 light yellowish brown grades to 7/4 very pale brown
no mottling
firm, smooth lutite with scattered forams
G

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 27 Core No. 8PC

Lithologic Log

Detailed Description

55-80
CALC OOZE
2.5 Y 7/4 pale yellow
innumerable tiny light gray mottles 65-80 cm
firm lutite with a few forams 70-80 cm
S, inclined and disturbed

80-91
NANNO OOZE
10 YR 6/3 pale brown
homogeneous throughout
very slightly silty lutite
H, very sharp

91-94
CALC OOZE
10 YR 8/1 white
homogeneous throughout
fine compact foram sand
S, slightly inclined

94-124
CALC OOZE
varying hues of 10 YR 7/4 very pale brown, 6/4 light yellowish brown, 5/4 yellowish brown
a few very small foram-rich light mottles scattered throughout
silty lutite with scattered forams
S, horizontal

124-155
CALC OOZE
2.5 Y 7/4 pale yellow grades to 10 YR 6/4 light yellowish brown
numerous very small yellowish brown speck-like mottles 124-128 cm, also broad banded laminations of the grading colors 135-155 cm
slightly silty lutite with scattered forams
G

155-204
CALC OOZE
10 YR 6/4 light yellowish brown
homogeneous throughout
firm, slightly silty lutite with scattered forams
195-204 marbled and disturbed - inner barrel suck up
S, irregular

204-232
CALC OOZE
2.5 Y 7/4 pale yellow
faint irregular intermottling and marbling with unit above
firm, silty lutite with abundant forams
again, this unit appears flowed, disturbed, and unstratified
S, horizontal



VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 27 Core No. 8PC

Lithologic Log

Detailed Description

232-245
CALC OOZE
2.5 Y 6/2 light brownish gray grades to 7/2 light gray
slight, faint marbling throughout
firm, slightly silty lutite with scattered forams
G

245-469
FLOW-IN
end of core

## 501

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

Ship: CHN  Core No. 8 PC

Expedition 119  Station No. 27

Leg No. 2  Total Core Length 469 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | tr | | | 33 | 8 | 50 | 2 | | 5 | | | |
| 10 | calc ooze | 2 | 5 | | | 15 | 10 | 60 | tr | | 8 | | | |
| 28 | calc ooze | 3 | tr | | | 50 | 5 | 30 | tr | | 12 | | | |
| 39 | calc ooze | 4 | | | | 44 | 10 | 14 | 2 | | 26 | | | |
| 85 | nanno ooze | tr | tr | | | 16 | 4 | 75 | | | 5 | | | |
| 93 | calc ooze | 3 | | | | 33 | 30 | 22 | | | 12 | | | |
| 150 | calc ooze | tr | | | | 18 | 3 | 70 | | | 9 | | | |
| 230 | calc ooze | tr | | | | 18 | 4 | 60 | | | 18 | | | |
| 270 | calc ooze | 3 | tr | | | 39 | 8 | 40 | | | 10 | | | |
| 465 | calc ooze | 2 | 1 | | | 35 | 12 | 36 | | | 14 | | | |

## 502

VISUAL CORE DESCRIPTION

Page 1 of 1

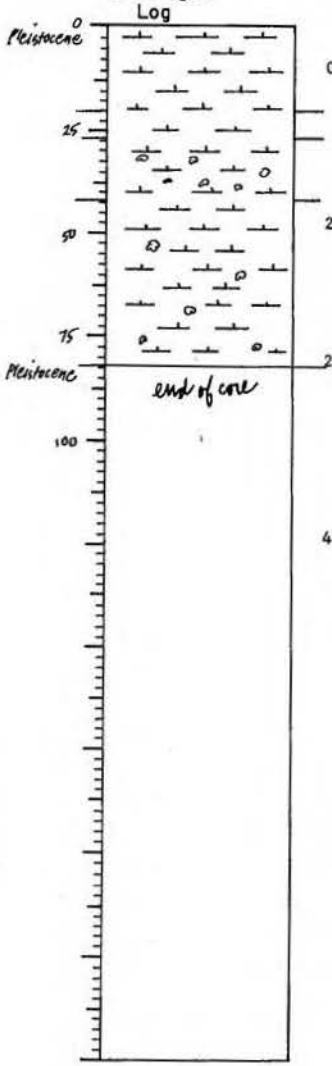
Ship CHAIN Cruise 119 Leg 2 Sta. 27 Core No. 8PG

Total Length 82 cm. Lat. 31° 49.8'N Long. 27° 43.9'E Depth 2738 m. corr.

Core condition EXCELLENT Date Described 11 NOV 75 by J. Broda.

Physiographic location HERODOTUS BASIN; EASTERN MEDITERRANEAN SEA.

Lithologic Log




Detailed Description

0-20
CALC OOZE
varying hues of 10 YR 6/4 light yellowish brown and 7/4 very pale brown
no mottling but broad laminations of the hues above
unconsolidated slightly silty lutite with a few silty laminations 12-18 cm
G

20-27
CALC OOZE
10 YR 4/3 brown grades to 5/6 yellowish brown
some fine calcareous flecks and laminae-like features in the broad grading bands of the colors above
slick lutite with a few scattered forams
S, horizontal

27-42
CALC OOZE WITH PYRITE
10 YR 4/1 dark gray
numerous white calc flecks and mottle-like inclusions
silty lutite(sapropel) with scattered forams and pteropods
one remarkably well-preserved pteropod test 33-34 cm; also 2 cm wide light gray band breaks sapropel sharply
G

42-82
CALC OOZE
10 YR 6/1 gray grades to 6/3 pale brown
a few faint light brownish gray mottles scattered throughout
firmer slightly silty lutite with scattered forams
end of core

507

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

Ship: CHN  Core No. 9 PG

Expedition 119  Station No. 28

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 | PYRITE |
| 1 cm | calc ooze | 2 | 3 | | | 41 | 3 | 45 | | | 3 | | | 1 | 2 |
| 26 cm | calc ooze | 2 | tr | | | 19 | 8 | 60 | 1 | | 10 | | | tr | |
| 39 cm | calc ooze | 2 | tr | | | 34 | 8 | 40 | 3 | | 8 | | | tr | 5 |
| 60 cm | calc ooze | 4 | 2 | | | 17 | 10 | 45 | 4 | | 10 | | | | 8 |
| 68 cm | calc ooze | 3 | 2 | | | 19 | 8 | 50 | 2 | | 10 | | | | 6 |

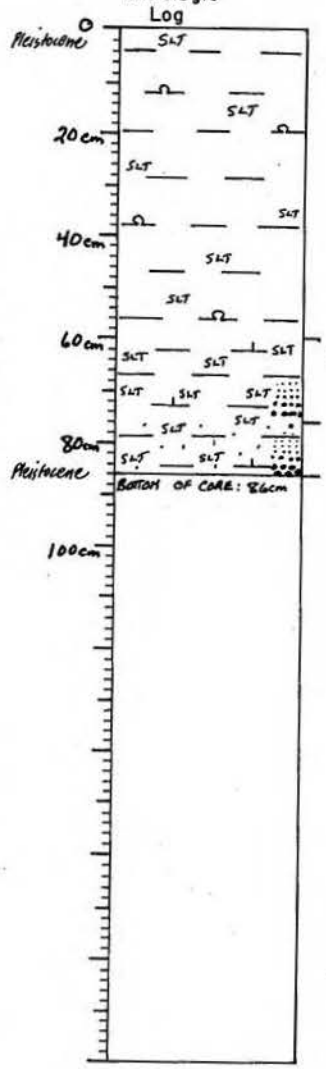
508

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 36 Core No. 2 GC
Total Length 86 cm. Lat. 31° 30.9'N Long. 30° 18.8'E Depth 6 CORR m
Core condition EXCELLENT Date Described 15 Aug 75 by R McGirr
Physiographic location Abu Quer Bay, Egyptian Continental Shelf, Eastern Med

Lithologic Log




Detailed Description

0-60
SLIGHTLY SILIC CLAY WITH DETRITUS
2.5 Y 3/2 very dark grayish brown
no mottling
moist, firm silty lutite
unit becomes slightly darker with depth - several nearly horizontal 1-cm thick laminations throughout, indication of graded bedding
S, bottom of section

60-76
SLIGHTLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
no mottling
firm, silty lutite, becoming siltier with depth
S, textural, horizontal

76-86
SLIGHTLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
no mottling
sandy silt
graded bedding
S
bottom of core

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

Ship: CHN  Core No. 2 GC

Expedition 119  Station No. 36

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 |
| 1 cm | slightly silic clay with det. | 20 | 5 | | 1 | 70 | | | | | 2 | 2 | | |
| 58 | slightly silic clay with det. | 20 | 5 | | 3 | 68 | | | | tr | 3 | 1 | | |
| 70 | slightly calc clay /detritus | 50 | 5 | | 3 | 39 | | | | | 3 | | | |
| 85 | slightly calc clay /detritus | 70 | 5 | | 3 | 20 | | | | | 2 | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

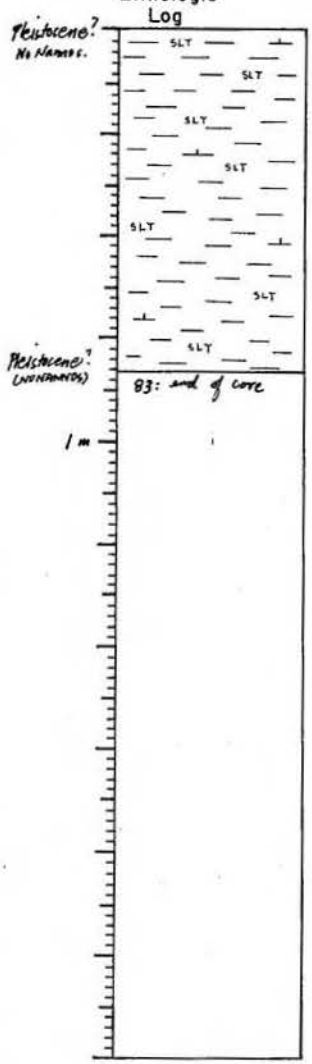
Ship CHAIN Cruise 119 Leg 2 Sta. 55 Core No. 3 GC

Total Length 83 cm. Lat. 31° 32.6' N Long. 30° 15.5' E Depth 12 corr. m.

Core condition excellent Date Described 17 Sept '75 by H. FARMER

Physiographic location CONTINENTAL SHELF NNE of ALEXANDRIA, EGYPT

Lithologic Log




Detailed Description

0-83
SLIGHTLY CALC CLAY WITH DETRITUS
2.5 Y 3/2 very dark gray brown laminated with 2.5 Y 4/2 dark gray brown
no mottling
smooth lutite
laminae vary from .5-3.0 cm with sharp contacts
end of core

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

Ship: CHN  Core No. 3 GC

Expedition 119  Station No. 55

Leg No. 2  Total Core Length 83 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Opaques / Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | slightly calc clay w/detritus | 20 / 10 | | | 1 | 67 | | tr | | tr | 2 | tr | tr | | |
| 18* | slightly calc clay w/detritus | 17 / 8 | | | 1 | 70 | tr | tr | | | 2 | | tr | | 2 |
| 81 | slightly calc clay w/detritus | 20 / 10 | | | 1 | 67 | | tr | | | 2 | | | | |

*from lighter colored laminae



VISUAL CORE DESCRIPTION

Page 1 of 1

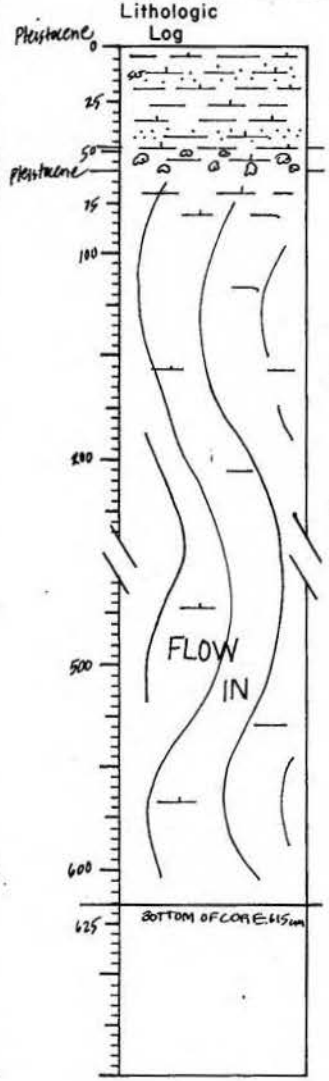
Ship CHAIN Cruise 119 Leg II Sta. 61 Core No. 10PC

Total Length 615 cm. Lat. 31° 40.8'N Long. 30° 01.4'E Depth 431 m. corr.

Core condition EXCELLENT. Date Described 24 NOV 75 by J. Broda.

Physiographic location ALEXANDRIA CANYON IN ROSETTA FAN, EASTERN MEDITERRANEAN.

Lithologic Log




Detailed Description

0-49
HIGHLY CALC CLAY WITH LAMINATIONS OF HIGHLY CALC CLAY/DETRITUS
10 YR 4/2 dark grayish brown
repeated grayish brown and light brownish gray laminations and beds; many are inclined and irregular, some are incomplete (do not span entire liner)
slick lutite interbeds with slightly to very silty lutite throughout
NOTE: All the features in this unit appear quite compacted and somewhat distorted. After comparison with pilot core, this whole 49 cm surface unit may represent a squeezed and shortened sample of the first meter of the sediment.
S, irregular

49-60
HIGHLY CALC CLAY
10 YR 4/2 dark grayish brown
extensive light brownish gray mottling
firm, slightly silty lutite
entire unit distorted - all features concave upward
G, mottled

60-615
CALC OOZE
FLOW-IN
end of core

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

Ship: CHN  Core No. 10 PC

Expedition 119  Station No. 61

Leg No. 2  Total Core Length 615 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | highly calc clay | 7 | tr | | 2 | 66 | 3 | 12 | | | 7 | tr | | tr | 3 |
| 19 | highly calc clay/detritus | 32 | 1 | | 3 | 40 | 4 | 8 | | | 8 | tr | | tr | 4 |
| 35 | calc clay | 6 | tr | | 2 | 79 | tr | 4 | | | 4 | | | tr | 5 |
| 60 | highly calc clay | 5 | 1 | | tr | 66 | 2 | 18 | | | 4 | | | tr | 4 |
| 614 | calc ooze | 3 | tr | | tr | 47 | 6 | 35 | | | 5 | | | tr | 4 |

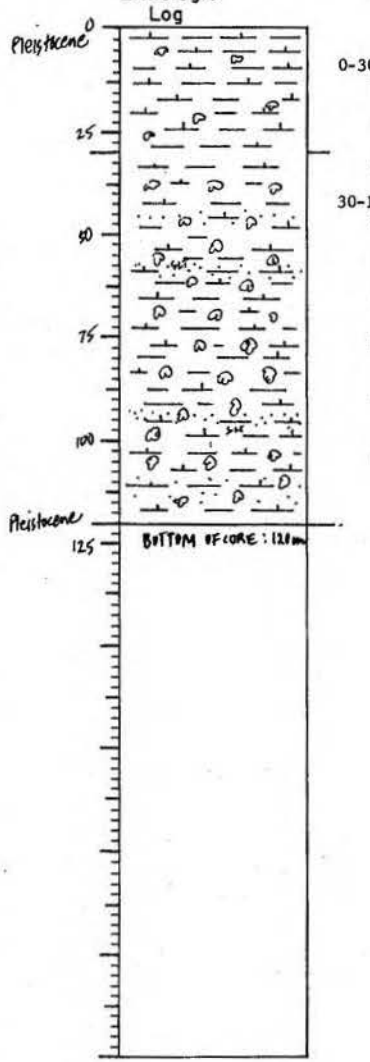


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 61 Core No. 10PG
Total Length 120 cm. Lat. 31°40.8'N Long. 30° 01.4'E Depth 431 m.corr.
Core condition EXCELLENT Date Described 25 NOV 75 by J. Bradley.
Physiographic location ALEXANDRIA CANYON IN ROSETTA FAN, EASTERN MEDITERRANEAN.

Lithologic Log




Detailed Description

0-30
HIGHLY CALC CLAY GRADES TO CALC CLAY
10 YR 4/2 dark grayish brown
faint, irregular and poorly defined light brownish-gray mottling and marbling
moist, unconsolidated slick lutite
S, mottled

30-120
HIGHLY CALC CLAY WITH LAMINATIONS OF HIGHLY CALC CLAY/DETRITUS
10 YR 4/2 dark grayish brown and 5/2 grayish brown and 6/2 light brownish gray
repeated sequences of beds of the colors above with common to extensive inter-mottling throughout
moist, slightly silty lutite with occasional zones of very silty material; also scattered Mn-rich flecks 35-60 cm
zones of highly silty material: 59-65 cm, 92-94 cm, and scattered, thin, irregular silty lenses, 102-120 cm
end of core

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

Ship: CHN  Core No. 10 PG

Expedition 119  Station No. 61

Leg No. 2  Total Core Length 120 cm

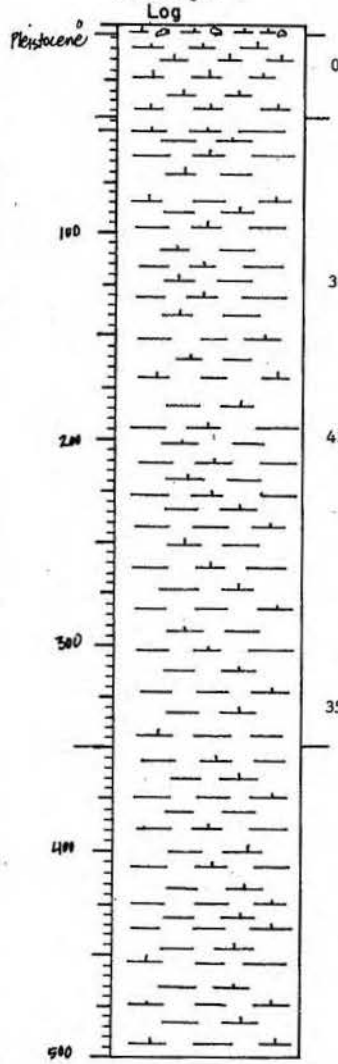
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 cm | highly calc clay | 8 | 2 | | tr | 64 | 3 | 15 | tr | | 8 | | | tr | |
| 28 cm | calc clay | 8 | 2 | | 4 | 76 | tr | 5 | | | 5 | | | tr | |
| 34 cm | highly calc clay | 5 | tr | | 2 | 6 | 4 | 15 | | | 8 | | | tr | |
| 64 cm | highly calc clay/detritus | 30 | tr | | 4 | 47 | 2 | 7 | | | 10 | | | | |
| 94 cm | highly calc clay | 5 | tr | | 4 | 71 | 2 | 12 | | | 6 | tr | | tr | |
| 119 cm | calc clay | 4 | 2 | | tr | 77 | tr | 10 | | | 5 | tr | | tr | 2 |



VISUAL CORE DESCRIPTION  Page 1 of 2

Ship CHAIN Cruise 119 Leg II Sta. 62 Core No. 11 PC
Total Length 925 cm. Lat. 31°52.92'N Long. 29°58.10'E Depth 1366 m. corr.
Core condition EXCELLENT. Date Described 8 Jan 75 by J. Brown.
Physiographic location ROSETTA FAN (NILE CONE) N.W. of ALEXANDRIA EGYPT, E. MEDITERRANEAN.

Lithologic Log




Detailed Description

0-3
CALC OOZE
10 YR 6/4 light yellowish brown
extensive, dark olive gray intermarbling
moist, unconsolidated lutite
Note: this unit appears disturbed and unstratified; also, on comparison with pilot core, it seems likely that the piston core missed ("blew by") the first 35 or 40 cm of sediment and then compacted the next 30 or 40 cm in the top 15 cm of its recovery
S, irregular

3-43
CALC OOZE
5 Y 3/2 dark olive gray
numerous, faint and somewhat irregular olive gray laminations
moist, slick lutite with a few fine wedges and lenses of silt
G

43-350
SLIGHTLY CALC CLAY WITH LAMINATIONS OF CALC OOZE AND DETRITUS/PYRITE
5 Y 3/2 dark olive gray
innumerable and repeated sequences of .5 mm to 1 cm white, light gray, and olive gray microlaminae, generally carbonate in composition, but silt-sized detrital laminations are also common: some remarkably fine features have been recovered and preserved
firm, smooth lutite throughout, with occasional silty laminations
a few of the carbonate laminae found throughout are somewhat lithified and brittle
G

350-630
SLIGHTLY CALC CLAY, GRADES TO CALC CLAY WITH LAMINATIONS AND BANDS OF CALC OOZE
5 Y 3/2 dark olive gray
laminations continue, but they are considerably fainter and in general not so well-defined: there are a number of broad bands of olive brown lutite (373-375.5 cm) (396-399 cm) (422-425 cm) (488-490 cm) (633-634 cm) followed by similar sequences of light and dark gray laminations: a curious change in inclination of the beds occurs at 512 cm
firm, smooth lutite with occasional thin silty laminations
G

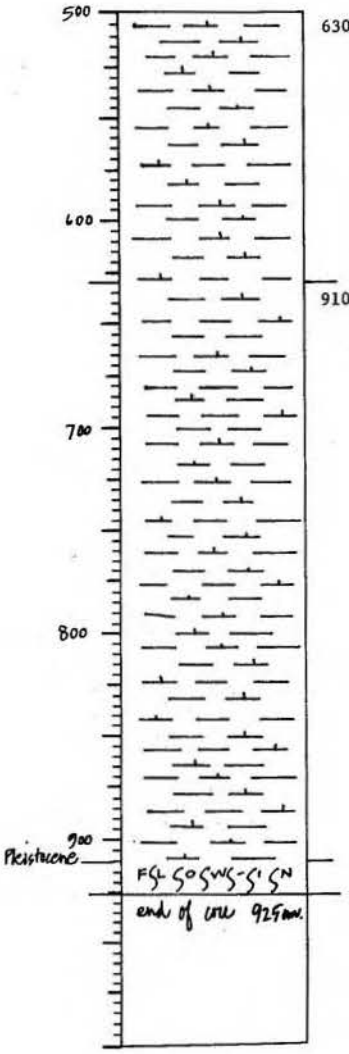
517

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 62 Core No. 11 PC

Lithologic Log




Detailed Description

630-910
CALC CLAY WITH LAMINATIONS OF CALC OOZE AND DETRITUS/ PYRITE
5 Y 3/2 dark olive gray
light gray and olive gray laminations continue, with the addition of two dark grayish brown, 1-1.5 cm, beds of very stiff, lithified lutite; also, the fine, silty laminations take on a rusty hue from here to bottom of core
firmer, more compact, smooth lutite, with occasional fine beds of silt
void 844-847, plus a few small splits in the zone 823-910 cm
G
910-925
FLOW-IN
end of core

518

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

Ship: CHN Core No. 11 PC

Expedition 119 Station No. 62

Leg No. 2 Total Core Length 925 cm

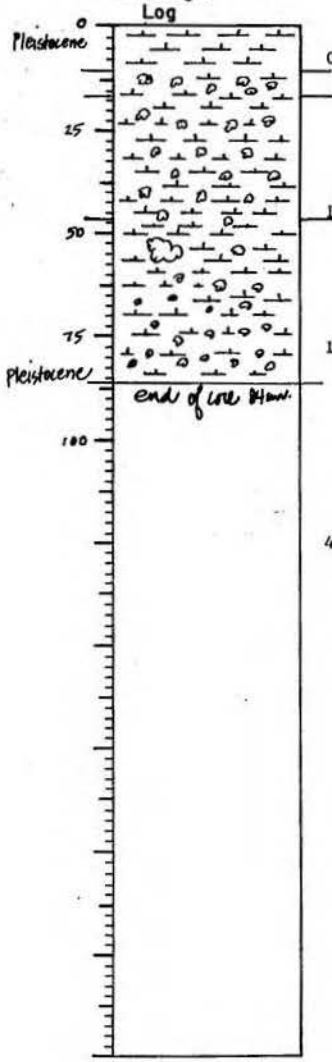
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 2 | tr | | | 25 | 2 | 65 | 3 | | 3 | | | | |
| 76 | calc ooze | 2 | tr | | | 37 | | | | | 60 | | | | 1 |
| 107 | detritus/ pyrite | 48 | | | | 5 | | | | | 2 | | | | 45 |
| 200 | slightly calc clay | 6 | | | | 80 | tr | 4 | | | 6 | | | | 4 |
| 235 | calc ooze | tr | tr | | | 58 | tr | 5 | | | 35 | | | | 2 |
| 300 | slightly calc clay | 3 | tr | | | 87 | tr | 2 | | | 3 | | | | 5 |
| 397 | calc ooze | 2 | | | | 33 | tr | 2 | | | 55 | | | | 8 |
| 489 | calc ooze | 2 | | | | 60 | tr | 1 | | | 35 | | | | 2 |
| 495 | calc clay | 4 | tr | | | 82 | | tr | | | 8 | | | | 6 |
| 600 | calc clay | 10 | tr | | | 77 | tr | 2 | | | 6 | 2 | | tr | 3 |
| 683 | calc ooze | 1 | | | | 39 | tr | | | | 57 | | | | 3 |
| 700 | detritus/ pyrite | 50 | | | | 4 | | | | | 4 | | | | 42 |
| 702 | calc clay | 8 | | | | 78 | | 2 | | | 5 | 1 | | 1 | 5 |
| 800 | calc clay | 5 | | | | 84 | | 2 | | | 4 | 1 | | tr | 4 |
| 900 | calc clay | 4 | | | | 81 | | 3 | | | 5 | 1 | | 1 | 5 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 62 Core No. 11PG
Total Length 84 cm. Lat. 31° 52.92'N Long. 29° 38.10'E Depth 1366 m corr.
Core condition EXCELLENT Date Described 6 Jan 75 by J. Broda.
Physiographic location ROSETTA FAN (NILE CONE) N.W. of ALEXANDRIA EGYPT, E. MEDITERRANEAN

Lithologic Log




### Detailed Description

0-10
CALC OOZE
10 YR 4/3 dark brown
homogeneous throughout
moist, unconsolidated, slightly silty lutite
upper 5 cm a bit washed and upset: large pteropod intact at 2 cm
S, irregular

10-16
CALC OOZE
10 YR 6/3 pale brown
extensive, fine, dark brown mottling and burrowing throughout
a bit firmer, slightly silty lutite with a few forams
S, mottled

16-47
CALC OOZE
10 YR 6/4 light yellowish brown, grades to 5/2 grayish brown
extensive, very pale brown and light grayish brown mottling and burrowing throughout
moist, very slightly silty lutite with scattered forams and pteropods
a fine bed of small pteropod fragments is found 16-17 cm
S, inclined 10°

47-84
CALC OOZE GRADES TO CALC CLAY
5 Y 3/2 dark olive gray
innumerable, tiny, very pale brown mottles, burrows, and flecks: also one very large, irregular, light gray mottle spans 49-53 cm
moist, slightly silty lutite
a few fine laminae appear 79-84 cm
end of core



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

Ship: CHN Core No. 11 PG
Expedition 119 Station No. 62
Leg No. 2 Total Core Length 84 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 6 | tr | | 1 | 44 | 2 | 35 | 4 | | 7 | tr | | 1 | |
| 20 | calc ooze | 2 | | | tr | 24 | 5 | 60 | 3 | | 6 | | | | |
| 50 | calc ooze | 1 | | | | 42 | 2 | 50 | 3 | | 2 | | | | |
| 83 | calc clay | 6 | tr | | | 70 | tr | 10 | tr | | 4 | | | | 10 |

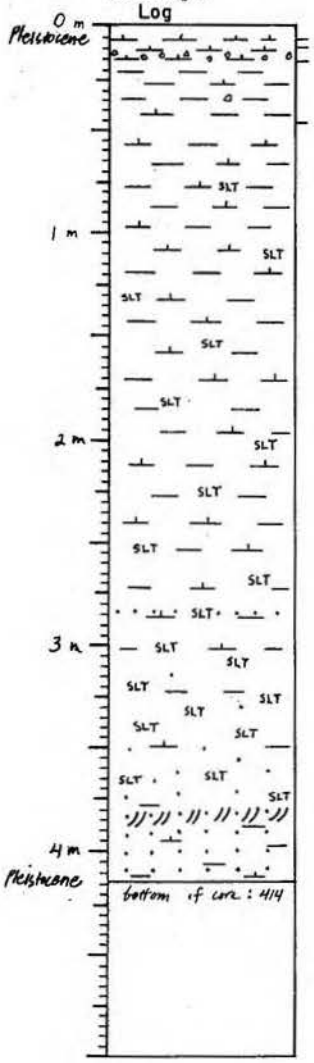
521

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 64 Core No. 12 PC
Total Length 414 cm. Lat. 32° 22.8' N Long. 29° 13.5' E Depth 2289 corr. m.
Core condition excellent Date Described 7 Oct 75 by H. Farmer
Physiographic location Rosetta Fan (Nile Cone), NW of Alexandria, Egypt

Lithologic Log




### Detailed Description

0-6
CALC OOZE
10 YR 6/4, light yellow brown
no apparent mottling
slightly silty lutite with few forams
S

6-9
CALC OOZE
10 YR 4/4, dark yellow brown
small scattered mottling, 8-9 cm
slightly silty lutite with few forams
G

9-16
CALC OOZE
2.5 Y 3/2, very dark gray brown
very abundant small mottles throughout
slightly silty lutite
thin (3 mm) sand layer at bottom
S

16-46
SLIGHTLY CALC CLAY
5 Y 3/2, dark olive gray
few small mottlings 20-21; 2 larger irregular sand clasts 40-49 cm
lutite, 24-27 cm bioclastic fragments common
silt/fine sand laminations from 30-38 cm (~2-4 mm)

46-414
CALC CLAY WITH DETRITUS GRADES TO SLIGHTLY CALC CLAY/DETRITUS
5 Y 2.5/2 black
generally few forams but scattered small patches with abundant forams; lutite with coarse silt/fine sand common; becomes very gradually more silty/sandy after 250 cm, until last 50 cm is a fine sand: cross-bedded laminations from 382-388; large lutite/silty lutite intraclasts 352-358, 372-384, 403-408; thin dark yellow-brown sand bed (2 mm) at 289.
end of core

522

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

Ship: CHN Core No. 12 PC
Expedition 119 Station No. 64
Leg No. 2 Total Core Length 414 cm

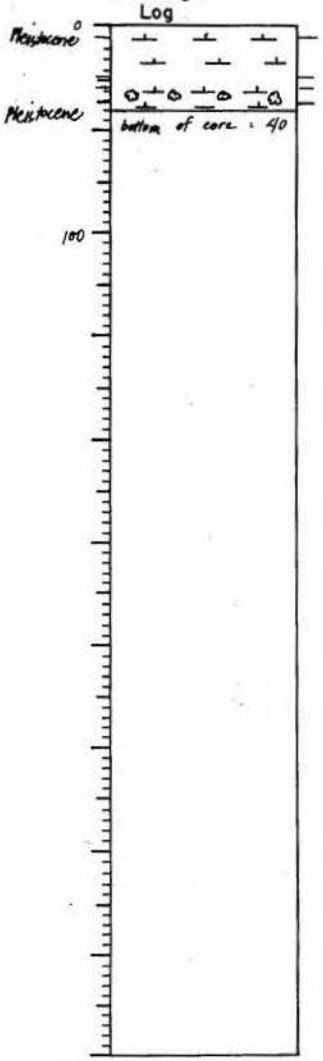
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | silt/sand grains Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | tr | | tr | 36 | 5 | 55 | tr | | 4 | | | | |
| 7 | calc ooze | 1 | tr | | | 40 | 9 | 43 | tr | | 7 | | | | |
| 13 | calc ooze | 1 | tr | | | 45 | 5 | 45 | tr | | 4 | | | | |
| 28 | slightly calc clay | 10 | tr | | tr | 85 | 2 | tr | | | 1 | | | | 2 |
| 75 | calc clay with detritus | 25/0 | tr | | tr | 65 | tr | tr | | | 10 | | | tr | tr |
| 175 | calc clay with detritus | 23/2 | 1 | | | 64 | | tr | | | 10 | | | tr | tr |
| 265 | calc clay with detritus | 18/3 | tr | | | 70 | | 1 | | | 8 | | tr | tr | |
| 365 | calc clay with detritus | 22/6 | tr | | | 63 | | 2 | | | 7 | | | tr | tr |
| 412 | slightly calc clay/detritus | 30/6 | tr | | | 60 | | 2 | | | 2 | | tr | tr | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 64 Core No. 12 PG
Total Length 40 cm. Lat. 32° 22.8' N Long. 29° 13.5' E Depth 2289 corr m.
Core condition excellent Date Described 2 Oct 75 by T. Farmer
Physiographic location Rosetta Fan (Nile Cone), NW of Alexandria, Egypt

Lithologic Log




### Detailed Description

0-5
CALC OOZE
10 YR 6/3, pale brown
no mottling apparent
smooth, slightly silty lutite, very few forams
S, horizontal

5-5.5
CALC OOZE
2.5 Y 5/4, light olive brown
no mottling apparent
pteropod hash in lutite matrix
S

5.5-23
CALC OOZE
2.5 Y 5/4, light olive brown
no mottling apparent
slightly silty lutite with scattered forams
S

23-27
CALC OOZE
10 YR 5/3, brown
25-27 laminated with dark brown and scattered very pale brown mottles
slightly silty lutite with scattered forams
S

27-36
CALC OOZE
5 Y 3/2, dark olive gray
abundant, small, very pale brown mottles
slightly silty lutite with scattered forams, thin sand lense near top
sapropel material
S

36-37
CALC OOZE/DETRITUS
5Y 3/2, dark olive gray
no mottles
sand
S, horizontal

37-40
HIGHLY CALC CLAY
5 Y 3/2, dark olive gray
no mottles
smooth, slick lutite, no forams
end of core



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

Ship: CHAIN Core No. 12 PG
Expedition 119 Station No. 64
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 | PYRITE |
| 2 | calc ooze | tr | | | | 30 | 1 | 60 | 2 | tr | 7 | | | tr | |
| 18 | calc ooze | tr | | | | 38 | 5 | 50 | 2 | | 5 | | | | |
| 24 | calc ooze | tr | 5 | | | 40 | 7 | 40 | 2 | | 6 | | | | |
| 30 | calc ooze | 1 | | | tr | 55 | 2 | 30 | 2 | | 5 | | | | 5 |
| 39 | highly calc clay | 10 | | | tr | 59 | | 1 | | | 25 | | | | 5 |

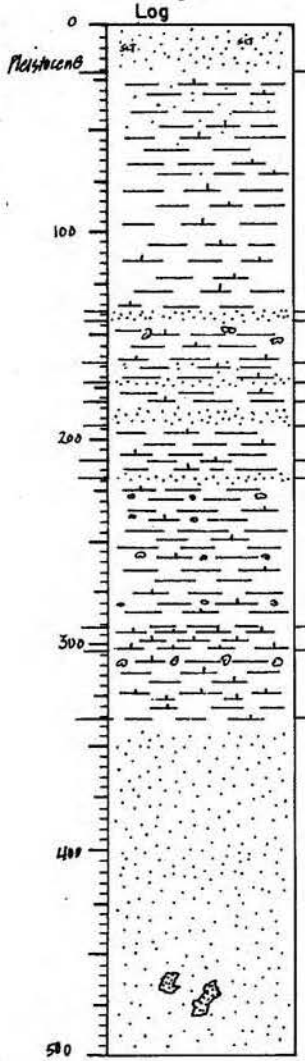
525

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 68 Core No. 13PC
Total Length 536 cm. Lat. 32° 49.0'N Long. 28° 43.7'E Depth 2889 m.corr.
Core condition EXCELLENT. Date Described 13 Jun 75 by J. Bunda.
Physiographic location HERODOTUS BASIN, EASTERN MEDITERRANEAN SEA.

Lithologic Log




Detailed Description

NOTE: due to the lithology of the pilot gravity core on this station and the generally dubious appearance of unusual combinations of sediments, the stratification of the upper 1.4 meters of this piston core is questionable

0-21
DETRITUS/CALC CLAY
2.5 Y 4/2 dark grayish brown
homogeneous throughout
silty, medium sand (appears washed)
large, 3 cm, irregular pale brown and gray inclusion of smooth, slick lutite
S (textural), irregular

21-138
SLIGHTLY CALC CLAY WITH DETRITUS GRADES TO CALC CLAY
5 Y 3/2 dark olive gray
several zones of disturbed marbling of pale brown and olive gray lutite
irregular texture throughout: some zones laminated with highly silty material, 35-48 cm, 125-135 cm; degree of consolidation varies, but generally firm, smooth lutite dominates the unit
severe disturbance evident 65-78 cm, 107-123 cm
G

138-143
DETRITUS
2.5 Y 4/2 dark grayish brown
somewhat graded bed with a few faint color laminations
extremely silty lutite, grades irregularly to pure silt
S

143-163
CALC CLAY
5 Y 5/3 olive, grades to 3/2 dark olive gray
common intermottling of the grading hues in the zone 145-47; also fine olive specks and flecks 148-158 cm
firm, slick lutite throughout
S, textural

163-173
CALC CLAY WITH DETRITUS, GRADES TO DETRITUS
5 Y 3/1 very dark gray, grades to 3/2 dark olive gray
one fine, dark lamination at upper unit contact; otherwise homogeneous throughout
extremely silty lutite, grades to stiff, compact, pure silt
S, textural

173-182
CALC CLAY
5 Y 5/3 olive

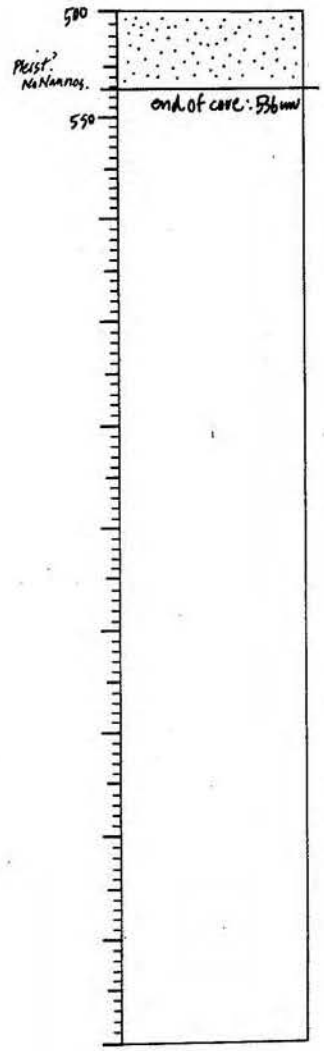
526

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 68 Core No. 13PC

Lithologic Log




Detailed Description

a few very faint, irregular, light olive gray mottles; also, tiny black flecks appear 177-181 cm
firm, smooth lutite grades to compact, silty lutite
G, textural

182-194
DETRITUS
5 Y 4/2 olive gray
no mottling
firm, compact silt grades to dry, stiff, fine sand and then to medium sand
S, concave downward

194-210
CALC CLAY
5 Y 7/3 pale yellow and 4/2 olive gray
light-colored, firm lutite is mixed and whirled with fine silt and medium sand
entire unit disturbed and unstratified
G

210-219
CALC CLAY WITH DETRITUS, GRADES TO DETRITUS
5 Y 4/2 olive gray
a few faint dark laminations and bands 211-218 cm
extremely silty lutite, grades to stiff, very compact silt with some sand
S, textural

219-292
SLIGHTLY CALC CLAY
5 Y 4/2 olive gray and 3/2 dark olive gray
several zones of very fine sapropel-like light olive gray flecks and specks (mottles) 220-227 cm, 235-236 cm, 244-254 cm, 260-277 cm
firm, fairly compact lutite with varying amounts of silt; also a few pteropod fragments found in the light mottling zones
G

292-303
CALC OOZE
5 Y 6/3 pale olive
homogeneous throughout
smooth, slick lutite
G

303-336
CALC CLAY
5 Y 5/2 olive gray
fine, pale olive mottling and flecks 303-315; large, pale olive band 325-330 cm
firm, silty lutite, grades to compact, smooth lutite
S

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 68 Core No. 13PC

Lithologic Log

Detailed Description

336-536
DETRITUS
5 Y 4/2 olive gray
no mottling
compact, fine silt, grades slowly and evenly to coarse sand
460-480 - several large, cemented sand stones are found
end of core



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

Ship: CHN Core No. 13 PC

Expedition 119 Station No. 68

Leg No. 2 Total Core Length 536 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | silt/sand Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | detritus/ calc clay | 65/ | tr | | | 17 | 3 | 12 | | | 2 | | | | 1 |
| 35 | slightly calc clay w/detritus | 15 | tr | | | 74 | | tr | | | 3 | | | | 8 |
| 100 | slightly calc clay | 5 | | | | 88 | | 1 | | | 3 | | | | 3 |
| 127 | detritus | /90 | | | | 5 | | 4 | | | 1 | | | | tr |
| 170 | detritus | 90/ | | | | 6 | | 3 | | | 1 | | | | tr |
| 230 | slightly calc clay | 8 | | | | 83 | | 1 | | | 3 | | | | 5 |
| 295 | calc ooze | 2 | | | | 37 | | 55 | | | 6 | | | | tr |
| 380 | detritus | /90 | | | | 6 | | 3 | | | 1 | | | | |
| 480 | detritus | /95 | | | | 3 | | 2 | | | tr | | | | |
| 535 | detritus | 80 | | | | 10 | tr | 8 | | | 2 | | | | tr |

529

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 68 Core No. 13PG
Total Length 88 cm. Lat. 32° 49.0'N Long. 28° 43.7'E Depth 2889 m.corr.
Core condition EXCELLENT Date Described 13 Jan 75 by J. Broha.
Physiographic location HERODOTUS BASIN, EASTERN MEDITERRANEAN SEA.

Lithologic Log

### Detailed Description

0-37
CALC OOZE
10 YR 7/4 very pale brown
innumerable, fine brown and light yellowish-brown microlaminae in the zones 5-14 cm, 26-31 cm; also two broader (1.5 cm) bands, light brownish-gray and light gray at lower unit contact
moist, slick, smooth lutite with a few forams 10-23 cm
S, horizontal

37-82
CALC OOZE, GRADES TO CALC OOZE WITH PYRITE, TO CALC OOZE WITH PYRITE AND DETRITUS, 5 Y 3/2 dark olive gray
a few broad, textural bands found throughout
several zones of mulchy, sapropel-like pteropod-rich material 36-41 cm, 58-55 cm, 61-63 cm, 71-75 cm; otherwise moist, smooth lutite becoming more silty at base
one very large, well-preserved pteropod test at 55 cm
S.

82-88
CALC CLAY
5 Y 4/2 olive gray
homogeneous throughout
compact, extremely silty lutite
end of core

530

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

Ship: CHN Core No. 13 PG
Expedition 119 Station No. 68
Leg No. 2 Total Core Length 88 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 2 | tr | | | 35 | tr | 60 | | | 3 | | | tr | |
| 35 | calc ooze | tr | tr | | | 26 | 4 | 65 | 2 | | 3 | | | tr | |
| 52 | calc ooze w/pyrite | 3 | | | | 45 | 2 | 30 | 3 | | 2 | | | | 15 |
| 80 | calc ooze w/ pyrite and detritus | 15 | | | | 33 | 3 | 30 | 2 | | 2 | | | | 15 |
| 87 | calc clay | 4 | | | | 76 | tr | 7 | 1 | | tr | | | | 12 |

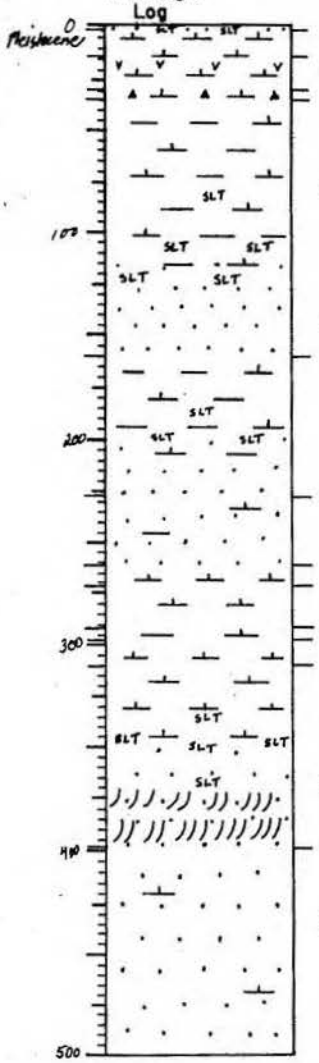
# 531

## VISUAL CORE DESCRIPTION



Ship CHN Cruise 119 Leg 2 Sta. 70 Core No. 14PC
Total Length 538 cm. Lat. 33° 14.6'N Long. 28° 15.4 E Depth 3106 corr. m.
Core condition excellent Date Described 6 Jan 76 by H. FARMER
Physiographic location CENTRAL HERODOTUS BASIN, EAST. MED. SEA

Lithologic Log




### Detailed Description

0-2
CALC OOZE/DETRITUS
2.5 Y 4/2 dark grayish brown
no mottling
washed and unstratified, soupy sand with lutite
S

2-14
CALC OOZE
10 YR 7/3 very pale brown
fine laminae (1 mm) of dark brown from 5-13 cm
smooth, slick lutite, except thin, fine silty layer at 12 cm
S

14-29.5
CALC OOZE
10 YR 6/4 light yellowish brown grades to 6/6 brownish yellow
no mottling
silty, grades to slightly silty lutite, forams grade from scattered to common
19.5 cm: volcanic ash (brown), 2 mm
S

29.5-34
CALC OOZE WITH PYRITE
5 Y 3/2 dark olive gray
no mottling
silty lutite, abundant pteropod fragments
sapropel-like material
S, but disturbed

34-160
CALC CLAY GRADES TO HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
no mottling
smooth, slick lutite grades smoothly to silty lutite (~100 cm) and sand (~125 cm)
1 cm sapropel with abundant pteropods at 68 cm
S

160-227
CALC CLAY GRADES TO HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
very occasional mottle or two
smooth, slick lutite grades smoothly to very silty lutite
S

227-262
CALC CLAY/DETRITUS
2.5 Y 4/2 dark grayish brown
no mottling
sand with very subdued laminae
S

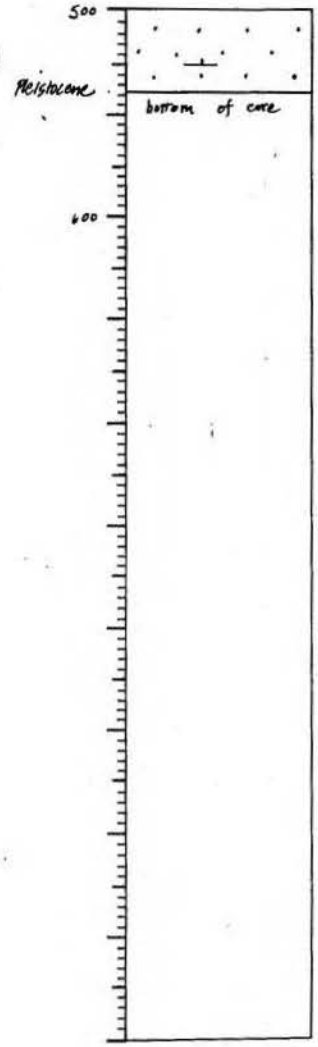
# 532

## VISUAL CORE DESCRIPTION



Ship CHN Cruise 119 Leg 2 Sta. 70 Core No. 14 PC

Lithologic Log




### Detailed Description

262-272
CALC OOZE
5 Y 3/2 dark olive gray, grades to 4/2 olive gray
no mottling
smooth, slick lutite, a few forams appear near bottom
core liner cut right at contact

272-291
CALC OOZE
5 Y 3/2 dark olive gray
no mottling
slick lutite grades to slightly silty lutite
S

291-297
CALC CLAY
5 Y 4/2 olive gray grades to 5/3 olive
marbled throughout
silty lutite with forams common
S, mottled contact

297-310
CALC OOZE
5 Y 4/2 olive gray, becomes somewhat darker towards bottom
small, scattered mottles from above
slick lutite, few forams present at top but disappear shortly
S

310-398
CALC OOZE GRADES TO CALC OOZE/DETRITUS
5 Y 3/2 dark olive gray, except near bottom, sands grade into brown of lower unit
no mottling
smooth, slick lutite grades smoothly to fine and medium sand; sands show cross-bedded laminations from 370-397 cm, turbidite (?)
void (357-360), has been partially filled by wash from above and below
very gradational

398-538
CALC OOZE/DETRITUS
10 YR 4/3 brown
no mottling
homogeneous, medium, very hard sand
end of core

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

Ship: CHN  Core No. 14 PC

Expedition 119  Station No. 70

Leg No. 2  Total Core Length 538 cm

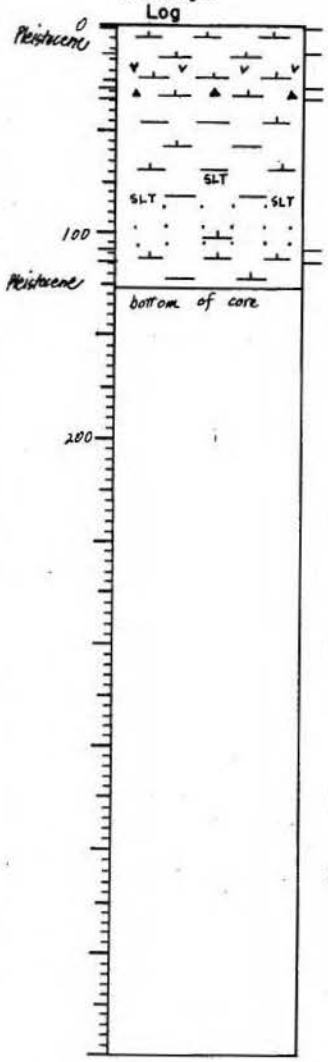
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 2.5 | calc ooze | | | | | 50 | tr | 35 | tr | | 15 | | | | |
| 19.5 | volcanic ash | | | | 85 | 5 | tr | 10 | | | | | | | |
| 25 | calc ooze | tr | tr | | | 42 | 3 | 48 | 2 | | 5 | | | | |
| 32 | calc ooze with pyrite | | | | | 50 | 7 | 21 | 2 | | 5 | | | | 15 |
| 40 | calc clay | 10 | | | | 74 | tr | 1 | tr | | 13 | | | | 2 |
| 120 | highly calc clay w/detritus | 25 | | | | 47 | tr | 5 | tr | | 19 | | | | 4 |
| 271 | calc ooze | 1 | | | | 66 | 2 | 25 | 1 | | 5 | | | | |
| 348 | calc ooze w/ detritus | 18 | | | | 15 | 2 | 14 | 1 | | 50 | | | | |
| 537 | calc ooze/ detritus | 40 | | | | 8 | | 2 | | | 50 | | | | tr |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHN Cruise 119 Leg 2 Sta. 70 Core No. 14 PG
Total Length 127 cm. Lat. 33° 14.6' N Long. 28° 15.4' E Depth 3106 corr. m.
Core condition excellent Date Described 6 JAN 76 by T FARMER
Physiographic location CENTRAL HERODOTUS BASIN, EAST. MED. SEA

Lithologic Log




Detailed Description

0-1
CALC OOZE
10 YR 5/4 yellowish brown
no mottling
silty lutite with a few forams
S, but disturbed

1-13
CALC OOZE
10 YR 7/3 very pale brown
fine laminae (1 mm) of dark and reddish brown (4-12 cm)
smooth, slick lutite
S

13-28
CALC OOZE
10 YR 6/4 light yellowish brown grades to 6/6 brownish yellow
no mottling
3 mm of shell hash overlies a silty lutite which becomes somewhat less silty with depth; forams grade from scattered to common
2 mm bed of brown volcanic ash at 19 cm
S

28-34
CALC OOZE WITH PYRITE
5 Y 3/2 dark olive gray
no mottling
lutite with pteropod fragments abundant
sapropel with extremely fine laminations
S

34-108
CALC CLAY GRADES TO HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
no mottling
smooth, slick lutite grades smoothly to silty lutite (~90 cm) followed by fine sand
1 cm of above unit at 60 cm
S

108-114
sequence from 3 to 20 cm is repeated, although compressed to 1/3 of its original thickness
S, concave up

114-127
sequence from ~90 to 108 cm is repeated
due to repetition of distinctive stratigraphic features which are <u>not</u> repeated in the piston core, rebound of the pilot core is assumed
end of core

535

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

Ship: CHAIN  Core No. 14 PG

Expedition 119  Station No. 70

Leg No. 2  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 | PYRITE |
| 1 | calc ooze | tr | 1 | | | 34 | 3 | 55 | tr | | 7 | | | | |
| 126 | calc ooze/ detritus | 35 | | | | 25 | 5 | 12 | tr | | 20 | | | tr | 3 |

536

VISUAL CORE DESCRIPTION



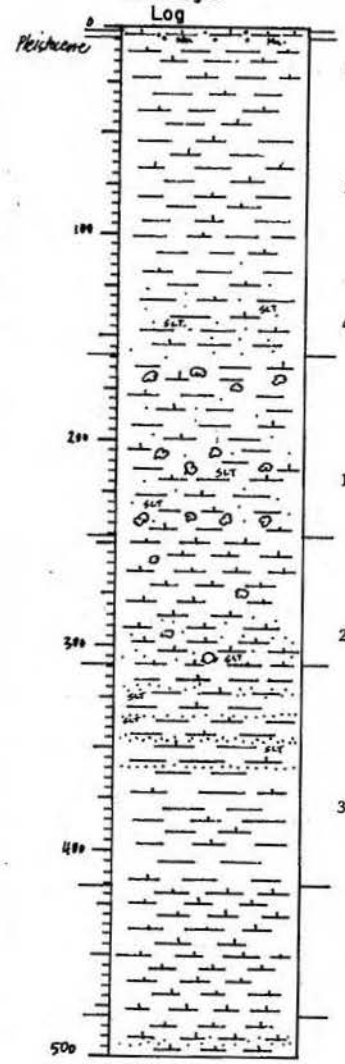
Ship CHAIN Cruise 119 Leg II Sta. 72 Core No. 15 PC

Total Length 416 cm. Lat. 33° 19.45'N Long. 29° 40.34'E Depth 2828 m-corr.

Core condition EXCELLENT Date Described 16 Jan 76 by J. BRODA.

Physiographic location DISTAL NILE CONE, NORTH OF ALEXANDRIA, EASTERN MED.

Lithologic Log




Detailed Description

0-2
CALC OOZE
10 YR 6/4 light yellowish brown
homogeneous throughout
moist, unconsolidated lutite with a few forams
S, horizontal

2-4
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
innumerable, fine microlaminae; dark and light yellow-brown alternate
smooth, moist lutite
S

4-159
HIGHLY CALC CLAY, GRADES TO CALC CLAY WITH DETRITUS
5 Y 3/1 very dark gray and 3/2 dark olive gray
dark olive gray sapropel-like pteropod-rich bands appear 4-5 cm, 12-18 cm, 36-39 cm 57-67 cm, 110-114 cm
very moist, slick lutite throughout with the above mentioned exceptions
S, textural

159-246
CALC CLAY WITH DETRITUS
5 Y 3/1 very dark gray and 5/2 olive gray
extensive intermarbling of the colors above in zones scattered throughout the unit
moist, smooth lutite with pteropod fragments and forams abundant in the intermarbling zones
S, very horizontal

246-308
CALC OOZE GRADES TO CALC OOZE/DETRITUS
2.5 Y 6/4 light yellowish brown
slight, faint, light brownish gray mottling scattered throughout
more compact, slightly silty lutite with increasing "silt" (calc fragments); content grades to fine (calc fragment) sand
S, very horizontal

308-416
CALC CLAY WITH LAMINATIONS OF DETRITUS
5 Y 3/1 very dark gray
a few zones of olive gray banding and fine flecks, especially 308-360 cm
smooth, firm lutite with a few fine beds of pteropod and calc fragments (310 & 360)
coarse pteropod ooze 415-416 cm
S, very

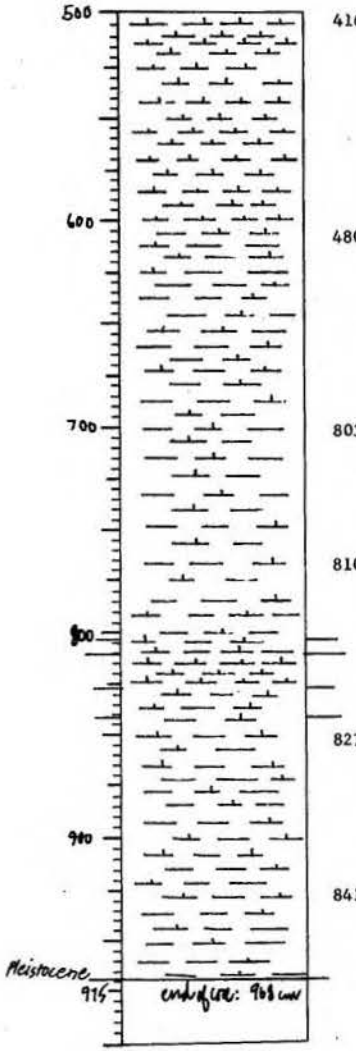
537

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 72 Core No. 15PC

Lithologic Log




Detailed Description

416-480
CALC OOZE
varying hues of 2.5 Y 5/2 grayish brown, 6/2 light brownish gray, and 6/4 light yellowish brown
alternating beds of the colors above with two light yellowish-brown zones dominating the unit at 439-452 cm; 455-460 cm, also very fine, light brown mottling scattered throughout
generally smooth, compact lutite throughout with a few silty laminations 465-480 cm
S

480-803
CALC OOZE WITH LAMINATIONS OF DETRITUS, GRADES TO SLIGHTLY CALC CLAY, TO CALC CLAY
5 Y 3/1 very dark gray
numerous and repeated dark olive gray, pteropod-rich beds 480-660 cm
compact, smooth lutite with a number of fine, silty laminations 480-660 cm
cemented gastropod shell found at 798 cm
S, concave upward

803-810
CALC CLAY
5 Y 5/2 olive gray and 5/1 gray
several broad laminations of the colors above, plus some fine intermottling in the zone 804-807 cm
smooth, compact lutite
S, concave upward

810-827
CALC OOZE
5 Y 6/2 light olive gray, grades to 7/2 light gray
a few poorly defined, olive gray mottles and one lamination occur at upper unit contact
firm, stiff, foram-rich lutite becomes more compact, then totally lithified and brittle
remarkably stiff zone has sheared horizontally at 819 cm
S

827-841
CALC CLAY
5 Y 4/2 olive gray and 6/2 light olive gray
complete and extensive intermarbling of the colors above
generally compact, slightly silty lutite with scattered forams
S, irregular

841-968
SLIGHTLY CALC CLAY
5 Y 3/2 dark olive gray
scattered and irregular olive-gray mottling, marbling,

538

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 72 Core No. 15PC

Lithologic Log

Detailed Description

841-968 (cont.)
and lamination
compact, slightly silty lutite with scattered, silty laminations and zones of pteropod-rich sapropel-like material
end of core

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

Ship: CHN  Core No. 15 PC

Expedition 119  Station No. 72

Leg No. 2  Total Core Length 968 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | calc ooze | 4 | 2 | | | 22 | 7 | 55 | tr | | 10 | | | | |
| 15 | highly calc clay | tr | 8 | | | 64 | 2 | 15 | 1 | | 3 | | | | 7 |
| 50 | highly calc clay | 4 | tr | | | 70 | tr | 15 | 1 | | 4 | | | | 6 |
| 150 | calc clay w/detritus | 15 | tr | | | 70 | 1 | 5 | tr | | 4 | | | | 5 |
| 250 | calc ooze | 3 | | | | 23 | 12 | 45 | 2 | | 15 | | | | tr |
| 305 | calc ooze/ detritus | 55 | | | | 9 | 18 | 3 | | | 15 | | | | tr |
| 347 | detritus | 75 | | | | 8 | tr | 2 | | | 10 | | | | 5 |
| 440 | calc ooze | 2 | | | | 38 | tr | 45 | | | 15 | | | | tr |
| 500 | calc ooze | 2 | | | | 55 | 3 | 40 | tr | | tr | | | | 12 |
| 600 | slightly calc clay | 3 | | | | 85 | 1 | 3 | 1 | | 2 | | | | 5 |
| 615 | detritus | 75 | | | | 11 | | 2 | tr | | 4 | | | | 8 |
| 700 | slightly calc clay | 2 | | | 6 | 85 | | 2 | | | 2 | | | | 3 |
| 800 | calc clay | 6 | | | 3 | 77 | | 8 | | | 2 | | | | 4 |
| 811 | calc ooze | 3 | tr | | | 37 | 3 | 50 | tr | | 5 | | | | 2 |
| 818 | calc ooze | 2 | | | | 31 | 2 | 45 | | | 20 | | | | tr |
| 900 | slightly calc clay | 10 | | | | 82 | tr | 1 | | | 1 | | | | 6 |
| 967 | slightly calc clay | 9 | | | | 83 | | 1 | | | tr | | | | 7 |

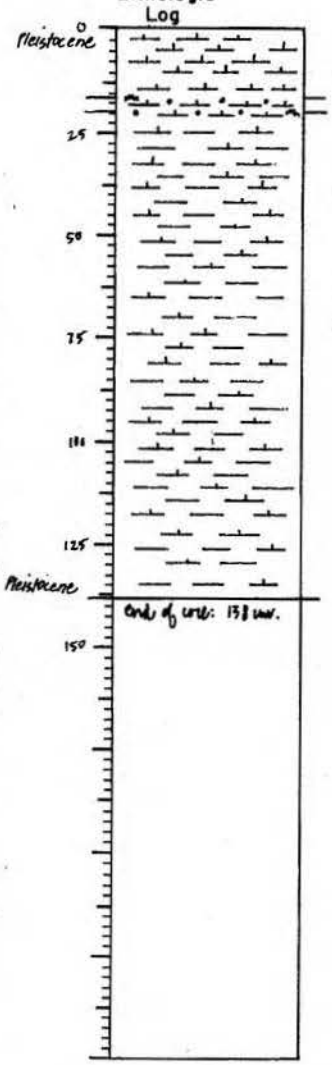


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 72 Core No. 15PG
Total Length 138 cm. Lat. 33° 19.45'N Long. 29° 40.39'E Depth 2828 m-corr.
Core condition EXCELLENT Date Described 16 Jan. 76 by J. Broda.
Physiographic location DISTAL NILE CONE, NORTH OF ALEXANDRIA, EASTERN MED.

Lithologic Log




Detailed Description

0-16
CALC OOZE
10 YR 6/4 light yellowish brown
homogeneous throughout
moist, unconsolidated lutite with scattered forams
S, horizontal

16-19
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
innumerable, fine microlaminae; dark and light yellowish brown alternate
smooth, moist lutite
S

19-138
HIGHLY CALC CLAY
5 Y 3/1 very dark gray and 3/2 dark olive gray
dark olive gray sapropel-like, pteropod-rich bands appear 19-21 cm, 30-38 cm, 50-52 cm, 67-75 cm, 135-137 cm
very moist, slick lutite throughout, with the above exceptions
a few fine, silty laminations appear 90-135 cm
end of core

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

Ship: CHN  Core No. 15 PG

Expedition 119  Station No. 72

Leg No. 2  Total Core Length 138 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 4 | 2 | | | 23 | 6 | 55 | 2 | | 8 | | | | |
| 18 | calc ooze w/ Mn micronodules | 2 | 15 | | | 13 | 5 | 60 | | | 5 | | | | |
| 35 | highly calc clay | tr | 8 | | | 64 | 2 | 15 | 1 | | 3 | | | | 7 |
| 80 | highly calc clay | 3 | tr | | | 73 | | 13 | 1 | | 4 | | | | 6 |
| 136 | highly calc clay | 2 | tr | | | 72 | 3 | 12 | 1 | | 6 | | | | 4 |



VISUAL CORE DESCRIPTION



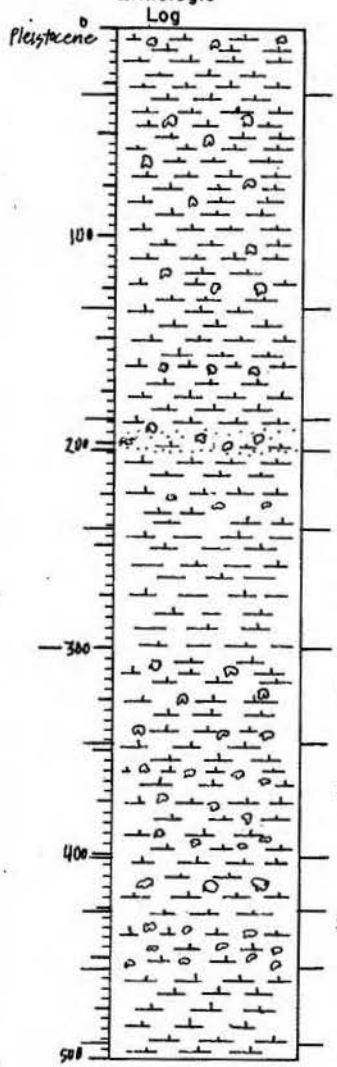
Ship CHAIN Cruise 119 Leg II Sta. 74 Core No. 16 PC

Total Length 1012 cm. Lat. 33° 14.8'N Long. 30° 19.9'E Depth 2523 m-corr.

Core condition EXCELLENT Date Described 19 Jan 76 by J. Broda.

Physiographic location CENTRAL NILE CONE; EASTERN MEDITERRANEAN SEA.

Lithologic Log




Detailed Description

0-30
CALC OOZE
5 Y 4/3 olive, grades to 2.5 Y 4/2 dark grayish brown
fine, tiny, light brown mottles and flecks 0-6 cm; otherwise, faint, olive gray mottles scattered throughout
moist, unconsolidated, slightly silty lutite
note: upon comparison with the pilot core, it appears that the piston core "blew by" (failed to recover) the upper 30 cm of the sediment
G

30-135
CALC OOZE
varying hues of 10 YR 7/4 very pale brown, 6/4 light yellowish brown and 5/3 brown
common intermottling and broad banding of the colors above
generally moist, slightly silty lutite with scattered forams: a few fine silty laminations and lenses in the zone 50-90 cm
S, mottled

135-188
CALC OOZE
10 YR 5/3 brown and 4/3 dark brown
intermittent bands and mottles of the colors above with a particularly dense zone of dark mottling 162-167 cm
moist, slick lutite with a few forams and scattered, fine, silty lenses
a bright, brownish-yellow band appears at unit basal contact
S, mottled

188-203
CALC OOZE WITH LAMINATIONS OF DETRITUS
10 YR 6/3 pale brown and 4/2 dark brownish-gray
common intermottling of the two colors throughout
S, horizontal

203-242
CALC OOZE
10 YR 7/2 light gray grades to 6/3 pale brown
slight, faint intermottling in the transitional zone
moist, a bit more compact, slightly silty lutite with scattered forams
G

242-300
HIGHLY CALC CLAY
2.5 Y 5/2 grayish brown, grades to 3/2 very dark gray
numerous, dark olive laminations with white calc flecks and microlaminae included within

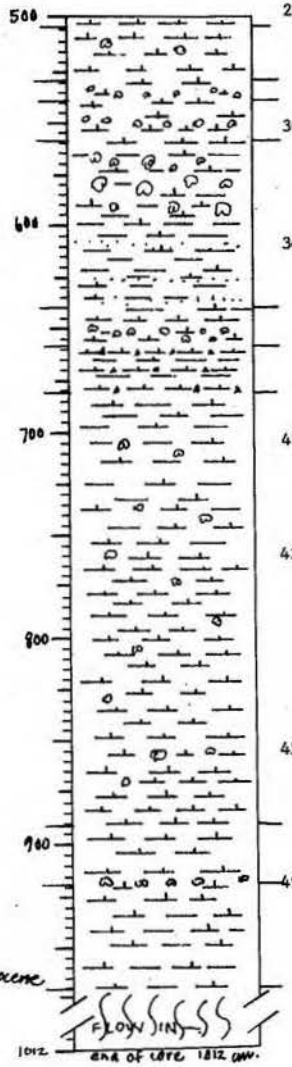
543

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 74 Core No. 16PC

Lithologic Log




Detailed Description

242-300 (cont.)
firm, silty lutite with scattered forams and pteropod fragments; again a few fine, silty laminations scattered throughout
sapropel-like, broad lamination
G, mottled

300-346
CALC OOZE
10 YR 6/3 pale brown, grades to 5/2 grayish brown
common, irregular, grayish brown mottling
firm, slightly silty lutite with scattered forams
G

346-401
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 5 Y 3/2 dark olive gray
extensive intermarbling and lamination of the colors above
repeated beds of foram/pteropod-rich material alternate with slick, smooth lutite and a few fine, silty laminations
S

401-426
CALC OOZE
5 Y 7/2 light gray, grades to 6/2 light olive gray
a few large, dark gray mottles 410-415 cm
firmer, more plastic, foram-rich lutite
S, mottled

426-455
CALC OOZE
5 Y 7/2 light gray, 5/2 olive gray, and 3/2 dark olive gray
intensive intermarbling and mottling of the colors above
stiffer, more compact lutite with scattered forams and small lithified lumps
large, dark olive gray inclusion 452-455
S

455-492
CALC OOZE
5 Y 7/2 light gray and 6/2 light olive gray
somewhat irregular intermarbling of the colors above
stiff, plastic-like lutite with abundant forams and scattered lithified calcareous lumps
S, horizontal

492-504
CALC OOZE
5 Y 3/2 dark olive gray
a few light olive gray laminations found within
firm, slightly silty lutite with abundant forams
very S, horizontal

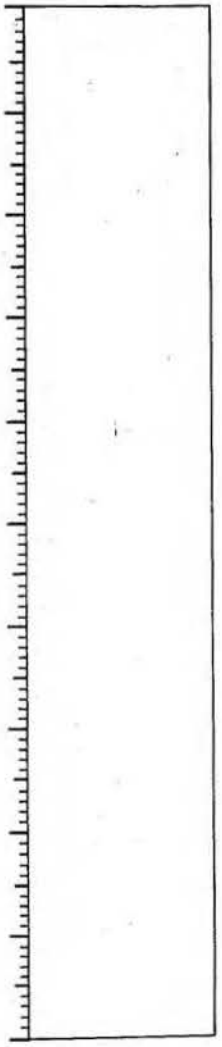
544

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 74 Core No. 16PC

Lithologic Log



Detailed Description

504-528
CALC OOZE
5 Y 7/2 light gray, grades to 6/2 light olive gray
slight, faint intermottling and lamination of the colors above
stiff lutite with abundant forams
S

528-539
CALC OOZE
5 Y 3/2 dark olive gray
fine, very small light olive gray mottling and flecks
firm, stiff lutite with abundant forams and pteropod fragments
sapropel-like zone
S, horizontal

539-559
CALC OOZE
5 Y 7/2 light gray, grades to 6/3 pale olive
extensive, very fine, light gray mottling 545-548 cm, and a few large, dark gray burrows
stiff lutite with abundant forams
S, horizontal

559-640
CALC CLAY WITH LAMINATIONS OF DETRITUS
5 Y 3/1 very dark gray, grades to 3/2 dark olive gray
extensive (small) fine, and (large) irregular mottling and burrowing 560-594; fine lamination: 594-640 cm
firm, compact, smooth lutite with many fine, well-preserved silt ( .5 cm) laminae
forams abundant in some laminae 595-620 cm
very S, horizontal

640-658
CALC OOZE
5 Y 6/2 light olive gray
intensive, fine mottling and burrowing 653-658 cm
stiff, compact, slightly silty lutite with forams common 640-653 cm
very S

658-681
CALC OOZE WITH PYRITE, ALTERNATES WITH SLIGHTLY CALC CLAY
5 Y 3/1 very dark gray and 3/2 dark olive gray
repeated, even, sharp (1 cm wide) laminations of the colors above 658-671; extensive, fine mottling 658-663 cm
stiff, smooth lutite inter-laminated with foram/pteropod-rich, slightly silty lutite
very nice preservation of cyclical sedimentary process
S

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 74 Core No. 16PC

Lithologic Log

Detailed Description

681-891
HIGHLY CALC CLAY GRADES TO CALC OOZE
5 Y 6/2 light olive gray and 5/2 olive gray
intermittent intermottling and marbling (fine and coarse) irregularly found throughout
stiff, compact, slightly silty lutite with varying amounts of forams
S, irregular

891-919
CALC OOZE
5 Y 7/2 light gray
a small zone of extensive, fine mottling at unit basal contact
very stiff, more compact lutite with foram content increasing to abundant at base of unit
S

919-971
CALC OOZE, GRADES TO HIGHLY CALC CLAY
5 Y 4/1 dark gray
only a few fine laminae 919-933 cm
stiff, smooth lutite with silty laminations
S, horizontal

971-1012
FLOW-IN
end of core



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

Ship: CHN Core No. 16 PC

Expedition 119 Station No. 74

Leg No. 2 Total Core Length 1012 cm

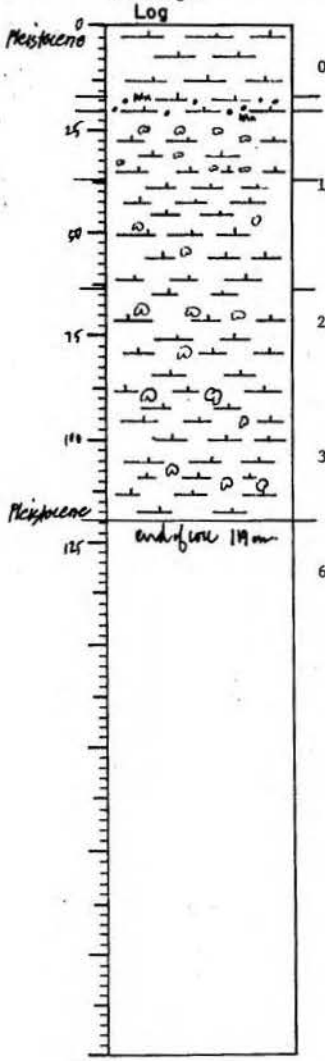
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | 4 | tr | | | 56 | 3 | 25 | | | 4 | | | | 8 |
| 40 | calc ooze | 2 | tr | | | 24 | 7 | 55 | | | 12 | | | | tr |
| 140 | calc ooze | 1 | 1 | | | 49 | 2 | 40 | tr | | 4 | | | | 3 |
| 193 | detritus | 75 | | | | 8 | tr | 3 | | | 12 | | | | 2 |
| 220 | calc ooze | 2 | tr | | | 33 | 7 | 50 | 3 | | 5 | | | | tr |
| 250 | highly calc clay | 2 | tr | | | 69 | 2 | 20 | | | 3 | | | | 4 |
| 350 | calc ooze | tr | tr | | | 48 | 1 | 45 | tr | | 5 | | | | 1 |
| 460 | calc ooze | 2 | | | | 11 | 3 | 60 | 3 | | 20 | | | | 1 |
| 503 | calc ooze | 2 | 2 | | | 23 | 2 | 50 | 1 | | 10 | | | | 10 |
| 600 | calc clay | 20 | | | tr | 66 | tr | 2 | tr | | 4 | | | | 8 |
| 605 | detritus | 65 | | | 2 | 13 | tr | 7 | tr | | 5 | | | | 8 |
| 650 | calc ooze | tr | | | tr | 48 | 2 | 45 | tr | | 5 | | | | |
| 665 | calc ooze w/ pyrite | 3 | 8 | | | 34 | 2 | 25 | tr | | 6 | | | | 22 |
| 666 | highly calc clay | 12 | 2 | | | 64 | tr | 1 | | | 3 | | | | 18 |
| 750 | highly calc clay | 2 | | | | 69 | 2 | 20 | | | 3 | | | | 4 |
| 850 | calc ooze | 2 | tr | | | 52 | tr | 40 | | | 3 | | | | 3 |
| 900 | calc ooze | | | | | 29 | 4 | 65 | | | 2 | | | | |
| 970 | hly. calc clay | 4 | | | tr | 65 | 2 | 25 | | | 2 | | | | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 74 Core No. 16PG
Total Length 119 cm. Lat. 33° 14.8'N Long. 30°19.9'E Depth 2523 m corr.
Core condition EXCELLENT Date Described 19 Jan 76 by J. Broda.
Physiographic location CENTRAL NILE CONE, EASTERN MEDITERRANEAN SEA.

Lithologic Log




### Detailed Description

0-16
CALC OOZE
10 YR 6/4 light yellowish brown
homogeneous throughout
moist, unconsolidated lutite with scattered forams
S, horizontal

16-20
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
innumerable fine microlaminae, dark and light yellowish brown alternate
smooth, moist lutite
S

20-37
CALC OOZE
5 Y 3/2 dark olive gray
innumerable and very fine, light gray mottles, burrows, and flecks
moist, sapropel-like, pteropod-rich lutite
S

37-68
CALC OOZE
2.5 Y 4/2 dark grayish brown
faint, olive gray mottling scattered throughout
moist, unconsolidated, slightly silty lutite
S

68-119
CALC OOZE
varying hues of 10 YR 7/4 very pale brown and 6/4 light yellow brown
common intermottling and broad banding of the colors above
generally moist, slightly silty lutite with scattered forams
end of core



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

Ship: CHN Core No. 16 PG
Expedition 119 Station No. 74
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 | PYRITE |
| 1 | calc ooze | 2 | 3 | | | 28 | 1 | 60 | 2 | | 3 | | | | 1 |
| 18 | calc ooze w/ Mn micronodules | 2 | 15 | | | 23 | 5 | 50 | tr | | 5 | | | | |
| 25 | calc ooze | 4 | tr | | | 44 | 3 | 35 | | | 4 | | | | 10 |
| 60 | calc ooze | 4 | tr | | | 31 | 4 | 40 | tr | | 15 | | | | 6 |
| 80 | calc ooze | 2 | tr | | | 24 | 7 | 55 | | | 12 | | | | tr |
| 118 | calc ooze | 3 | tr | | tr | 57 | tr | 35 | 1 | | 4 | | | | tr |

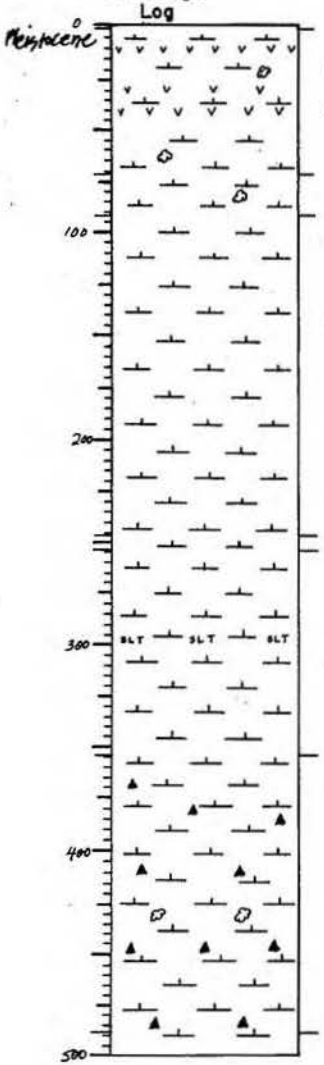
549

## VISUAL CORE DESCRIPTION

Page 1 of 2

Ship CHN Cruise 119 Leg 2 Sta. 76 Core No. 17 PC
Total Length 895 cm. Lat. 33° 42.752' N Long. 30° 40.921' E Depth 2595 corr. m.
Core condition EXCELLENT Date Described 15 JAN 76 by T FARMER
Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA

Lithologic Log




### Detailed Description

0-2
void
2-71
CALC OOZE
10 YR 6/4 light yellow brown, 6/3 pale brown, and 7/3 very pale brown; gradational bands (2-5 cm) of above colors, faint suggestion of 5 Y 4/2 olive gray at very top
scattered intermottling of above colors
very silty lutite with scattered forams
10.5-11cm, 42-42.5 cm, 28-29 cm volcanic ash; several large calcareous fragments at 31 cm
S, disturbed
71-92
whole core below this point has a very disturbed appearance, some of which is clearly due to coring, while the remainder is possibly caused by severe bioturbation
CALC OOZE
10 YR 5/3 brown
scattered mottles of pale brown
silty lutite with scattered to common forams
G
92-246
CALC OOZE
10 YR 7/1 to 5/1, light gray to gray, and 6/2 light brownish gray
intermarbling and distorted laminations of above colors are common; 2 beds of 5 Y 3/2 dark olive gray appear at 145-150 cm and 204-208 cm
generally silty to very silty lutite with forams common
S
246-254
CALC OOZE
10 YR 7/1 light gray and 5/1 gray
no mottling
lithified lumps of lutite
S
254-354
CALC OOZE
2.5 Y 5/2 grayish brown grades to 10 YR 7/1 and then to 6/1 (light grays) with periodic sharply contacted beds of 6/2 light brownish gray
marbling and distortion between above colors is common; some very small white and dark mottles are common in both brownish grays and several larger burrow-like mottles are also present
silty to very silty lutite with common to abundant biogenic grains

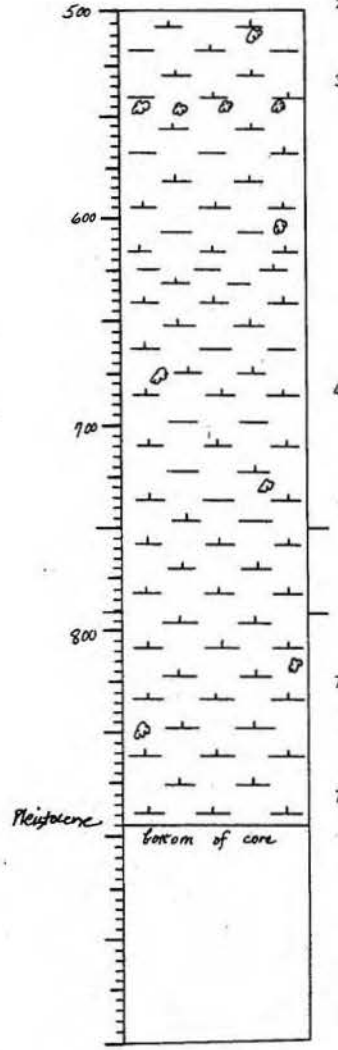
550

## VISUAL CORE DESCRIPTION

Page 2 of 2

Ship CHN Cruise 119 Leg 2 Sta. 76 Core No. 17 PC

Lithologic Log




### Detailed Description

254-351 (cont.)
2 silt beds, dark gray (5 Y 4/1) and dark olive gray, appear at 294-295 and 297-299 cm
S
354-488
CALC OOZE
5 Y 7/1 light gray, 6/2 light olive gray, 3/2 dark olive gray - above colors appear in 4 consecutive cycles (354-382, 382-417, 417-464, 464-488): the degree of mottling varies considerably between sapropels; 444-464 cm sapropel is interbedded with slick lutite, 5 Y 4/1 dark gray
marbling and disturbance are present, as are several large burrow-like structures; mottling is present over only small sections
the sapropels have a humus-like organic lutite texture, while the remaining sediments are silty to very silty lutites; forams vary from scattered to abundant in a non-cyclic manner
S
488-750
CALC OOZE INTERBEDDED WITH CALC CLAY
5 Y 7/1, 6/1 light grays grade gently to various hues of light olive gray (6/2) below ~580 cm; numerous bands (~1-4 cm) of 5/1 gray (calc clay) interrupt the above colors, increasing with depth
marbling and mottling between above colors is common throughout, intensely mottled from 540-552 cm: some laminae are clearly sheared and not burrowed
predominately a silty lutite with scattered to common forams, the darker beds being somewhat less silty; 621-634 cm slightly silty lutite (5 Y 3/1, very dark gray - slightly calc clay - interbedded with dark olive gray (3/2) sapropelic lutite
G
750-791
CALC OOZE GRADES TO NANNO OOZE
5 Y 7/2 light gray grades to 8/1 white and back to 7/2
minor mottling
stiff, very silty lutite with scattered forams
very gradational
791-895
CALC OOZE
5 Y 7/2 light gray and 6/2 light olive gray appear in microlaminations
scattered mottling of above colors
silty to very silty lutite, forams vary from abundant to scattered
end of core

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

Ship: CHAIN  Core No. 17 PC

Expedition 119  Station No. 76

Leg No. 2  Total Core Length 895 cm

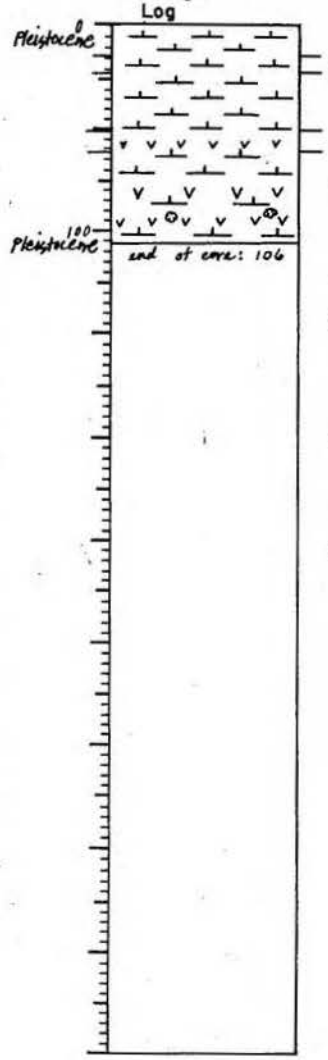
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 2 | calc ooze | 1 | 1 | | | 26 | 2 | 60 | tr | | 8 | | | | 2 |
| 63 | calc ooze | 1 | tr | | | 26 | 2 | 53 | 1 | | 17 | | | | |
| 152 | calc ooze | tr | | | | 58 | 1 | 30 | tr | | 6 | | | | 5 |
| 254 | calc ooze | | | | | 15 | tr | 15 | | | 63 | | | | 7 |
| 270 | calc ooze | tr | tr | | | 39 | 7 | 40 | 1 | | 13 | | | | tr |
| 312 | calc ooze | 1 | | | | 25 | 1 | 50 | 1 | | 21 | | | | 1 |
| 410 | calc ooze | | | | | 55 | 6 | 28 | tr | | 2 | | | | 9 |
| 425 | calc ooze | 1 | | | | 55 | 6 | 34 | tr | | 4 | | | | tr |
| 484 | calc ooze | tr | | | | 59 | 4 | 25 | tr | | 2 | | | | 10 |
| 591 | calc ooze | 1 | tr | | | 50 | 3 | 43 | tr | | 3 | | | | tr |
| 626 | slightly calc clay | 14 | | | | 77 | tr | 1 | | | 4 | | | | 4 |
| 700 | calc clay | 12 | | | | 77 | | 10 | | | 1 | | | | tr |
| 780 | nanno ooze | tr | | | | 5 | 3 | 90 | tr | | 2 | | | | |
| 835 | calc ooze | 3 | | | | 32 | 1 | 38 | tr | | 25 | | | | 1 |
| 894 | calc ooze | 3 | tr | | | 31 | 1 | 50 | | | 15 | | | | tr |



VISUAL CORE DESCRIPTION  Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 76 Core No. 17 PC
Total Length 106 cm. Lat. 33° 42.752'N Long. 30° 40.921'E Depth 2595 corr. m.
Core condition EXCELLENT Date Described 15 JAN 76 by T. Farmer
Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA

Lithologic Log




Detailed Description

0-14
CALC OOZE
10 YR 6/4 light yellowish brown
no mottling
very silty lutite with scattered forams
S

14-22
CALC OOZE
5 Y 3/2 dark olive gray
no mottling
moist, silty lutite with scattered forams
sapropel-like material
S

22-52
CALC OOZE
10 YR 5/2 grayish brown, pales somewhat with depth
no mottling
extremely silty lutite, with scattered forams
S, large burrow has disturbed contact

52-62
CALC OOZE
10 YR 7/2 light gray
no mottling
extremely silty, stiff lutite, forams fairly common
58 cm - 5 mm dark brown volcanic ash

62-106
CALC OOZE
10 YR 5/2 grayish brown
pale, small mottling (90-94) scattered below light gray lamination
silty lutite with scattered forams and pteropod fragments
82.5-84 cm, 10 YR 6/2 light brownish gray volcanic ash; 96 cm, 5 mm volcanic ash 10 YR 4/2 dark grayish brown
end of core

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

Ship: CHAIN  Core No. 17 PG

Expedition 119  Station No. 76

Leg No. 2  Total Core Length 106 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 1 | tr | | | 27 | 5 | 50 | 2 | | 15 | | | | |
| 16 | calc ooze | | | | | 60 | 3 | 21 | 1 | | 10 | | | | 5 |
| 25 | calc ooze | 3 | | | | 48 | 4 | 25 | 2 | | 18 | | | | |
| 105 | calc ooze | 1 | | | | 30 | 3 | 50 | tr | | 15 | | | | 1 |



VISUAL CORE DESCRIPTION



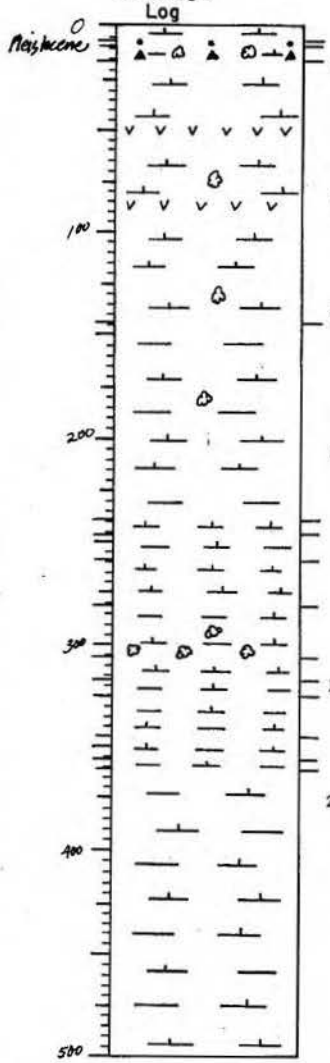
Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PC

Total Length 958 cm. Lat. 34° 20.84' N Long. 30° 55.84' E Depth 2484 corrm

Core condition EXCELLENT Date Described 9 DEC 75 by T FARMER

Physiographic location MEDITERRANEAN RIDGE SW OF CYPRUS, E. MED. SEA

Lithologic Log




Detailed Description

0-7
CALC OOZE
10 YR 6/4 light yellow brown grades to 4/4 dark yellow brown and back to 7/4 very pale brown
no mottling
very silty lutite with scattered forams
S

7-9
CALC OOZE WITH MN MICRONODULES
5 YR 3/3 dark reddish brown
appears to be very finely laminated
silty lutite with scattered forams
S

9-16
HIGHLY CALC CLAY WITH PYRITE
5 Y 3/2 dark olive gray
small, very pale brown mottles common from 13-16
slightly silty lutite with few forams and pteropods
sapropelic material
S

16-144
CALC OOZE
2.5 Y 5/2 grayish brown grades into a banded unit of 10 YR 7/4, 6/4, 6/3, very pale brown, light yellow brown, and pale brown
scattered mottles between the various bands are present throughout and sharp contacts between bands are rare
silty lutite with common forams; 1 cm calc sand layers at 36, 124 cm
volcanic ash layers: 49-52 cm, 10 YR 4/2 dark grayish brown and 86-88 cm, 10 YR 6/2 light brownish gray
G

144-239
above unit continues with addition of several brown (10 YR 5/3) bands of smooth lutite very low in forams (CALC CLAY); the bottom contacts of these beds are generally sharp
S

239-246
CALC OOZE
5 Y 3/2 dark olive gray
a few very pale brown mottles and fine to medium laminations
silty lutite with scattered forams
sapropel zone
S

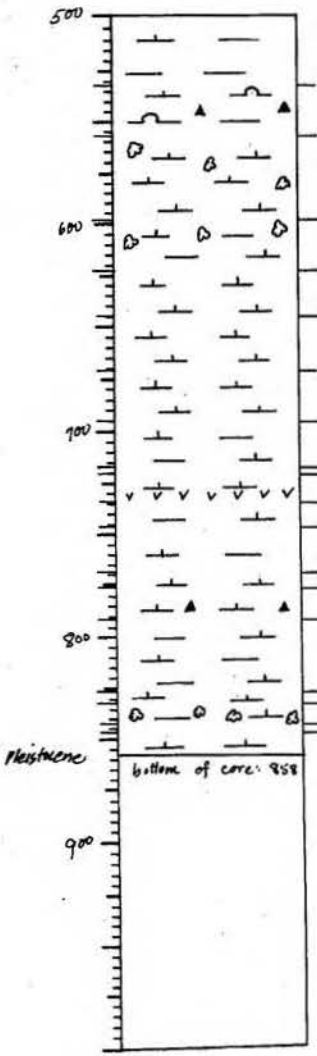
555

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PC

Lithologic Log




Detailed Description

246-259
CALC CLAY
5 Y 5/2 grades to 4/2 olive gray
few pale mottles near top
silty lutite with scattered forams grades quickly to a smooth, slick lutite devoid of forams
S, but core liner cut right along contact

259-281
CALC OOZE
2.5 Y 5/2 grayish brown grades to 10 YR 6/3 pale brown
few mottles from 267-274 cm
silty lutite, forams vary from very few to abundant in spots, generally scattered
G

281-306
CALC CLAY
5 Y 4/3 olive grades to 4/2 olive gray
small, pale olive mottles increasing from 294-306
smooth, slick lutite
S

306-317
CALC OOZE
10 YR 6/3 pale brown
no mottling
lutite; forams vary from none to scattered; 1 cm calc silt at 311 cm - S

317-325
CALC CLAY
5 Y 4/3 olive
no mottling
smooth, slick lutite
S

325-345
CALC CLAY
5 Y 4/2 olive gray
no mottling
smooth, slick lutite
S

345-356
CALC OOZE GRADES TO CALC CLAY TO CALC OOZE
10 YR 6/3 pale brown grades to olive (5 Y 4/3), olive gray, dark olive gray and back to pale brown in thin bands
few mottles of dark olive gray
silty lutite with scattered to common forams
S

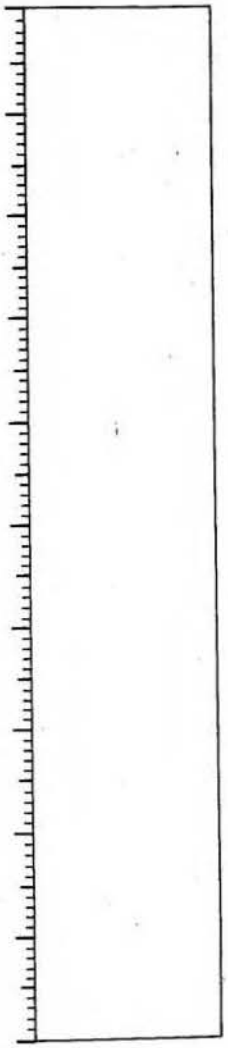
556

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PC

Lithologic Log



Detailed Description

356-361
CALC CLAY
5 Y 3/2 dark olive gray
no mottling
lutite with fine organic humus texture
sapropelic material
S

361-533
CALC CLAY AND CALC OOZE (pale browns)
repeated cycles of 10 YR 6/3 pale brown, 5 Y 5/2 and 4/2 olive grays, with sharp contacts
occasional mottling of pale brown into lower bands
smooth, slick lutite except forams generally scattered in pale browns
S

533-557
HIGHLY SILIC-CALC CLAY
5 Y 3/2 dark olive gray
no mottling
lutite with fine, organic humus texture
finely laminated sapropel
S

557-598
CALC OOZE
5 Y 6/1 gray grades into 10 YR 7/3 very pale brown
medium size mottles in various grays are common to 591
slightly silty lutite with scattered forams and few pteropods
S

598-623
HIGHLY CALC CLAY GRADES TO CALC CLAY
10 YR 4/2 grayish brown grades to 5/2 dark grayish brown
heavily mottled from above
smooth, slick lutite
S

623-645
CALC OOZE
10 YR 7/3 very pale brown
no mottling
lutite with scattered forams
632-633 cm sandy unit of volcanic ash, forams and detritus; 640-643 sandy unit of volcanic ash
G

645-671
CALC OOZE
10 YR 6/2 light brownish gray grades to 7/3 very pale brown

557

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PC

Lithologic Log

Detailed Description

645-671 (cont.)
intense marbling (disturbed laminations?) 654-668 cm
silty lutite, forams increase dramatically from few to abundant
S, but disturbed

671-695
CALC OOZE
5 Y 3/2 dark olive gray grades to 2.5 Y 3/2 very dark grayish brown
no mottling
very silty lutite with abundant forams
microlaminated sapropel with several larger laminae of pale and very pale browns and dark gray lutites
S

695-717
CALC CLAY
10 YR 4/1 dark gray
very homogeneous
smooth, sticky lutite
sapropelic laminae from 712-714 cm
S

717-720
CALC OOZE
5 Y 4/2 olive gray
no mottling
silty lutite with common forams
microlaminated sapropel
S

720-734
CALC OOZE
10 YR 7/1 light gray
no mottling
very silty lutite with abundant forams grades to scattered forams
732, 1 cm bed of volcanic ash; 727, several 5 mm black solidified tubes
G

734-746
CALC CLAY
5 Y 6/2 light olive gray grades to 5/2 olive gray
abundant small light olive gray mottles
silty grading to slightly silty lutite, no forams
S

746-769
CALC CLAY
5 Y 4/2 olive gray
no mottling
smooth, sticky lutite
S, but several cms of interbedding with lower unit

558

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PC

Lithologic Log

Detailed Description

769-776
CALC OOZE
10 YR 6/3 pale brown
slight mottling from above
silty lutite with forams common
S

776-792
CALC OOZE
5 Y 3/2 dark olive gray
no mottling
silty lutite with forams common and organic texture
finely laminated sapropel
S

792-826
CALC CLAY
5 Y 4/2 olive gray
occasional very dark, small mottles
silty lutite with scattered to common forams
S

826-833
CALC OOZE
10 YR 6/3 pale brown
scattered, subdued mottling
silty lutite with scattered to common forams
S

833-842
CALC CLAY
5 Y 5/2 olive gray
abundantly mottled from above
smooth, slick lutite
S

842-846
CALC CLAY
5 Y 3/2 dark olive gray
mottles of above are common to 844
lutite grades to silty lutite with no forams
S

846-858
CALC OOZE
10 YR 6/3 pale brown
subdued scattered mottles
silty lutite, forams increase sharply from few to common
end of core

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

Ship: CHN  Core No. 18 PC

Expedition 119  Station No. 78

Leg No. 2  Total Core Length 858 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICA FLAG | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | calc ooze | tr | tr | | | 40 | 5 | 51 | tr | | 4 | | | | | |
| 8 | calc ooze w/ Mn micronodules | tr | 15 | | | 50 | 2 | 29 | tr | | 4 | | | | | |
| 95 | nanno ooze | tr | tr | | | 18 | 2 | 78 | tr | | 2 | | | | | |
| 190 | calc clay | | tr | | | 92 | tr | 3 | tr | tr | 5 | | | | | tr |
| 290 | calc clay | tr | | | | 92 | tr | 3 | | tr | 5 | | | | | |
| 390 | calc clay | 1 | | | | 85 | 1 | 6 | tr | | 5 | | | | | 2 |
| 466 | calc ooze | tr | tr | | | 58 | 2 | 28 | tr | | 12 | | | | | |
| 550 | highly silic-calc clay | | | | | 63 | 4 | 1 | tr | | 1 | 22 | | | 1 | 8 |
| 580 | calc ooze | tr | | | | 42 | tr | 50 | tr | | 8 | | | | | |
| 619 | calc clay | 2 | | | | 90 | tr | 2 | 1 | | 5 | | | | | |
| 633 | calc ooze w/ volcanic ash | 3 | | | 23 | 23 | 17 | 25 | 5 | | 4 | | | | | |
| 690 | calc ooze | 1 | | | | 60 | 12 | 19 | 1 | | 4 | | | | | 3 |
| 760 | calc clay | 1 | tr | | | 86 | tr | 12 | | | 1 | | | | | tr |
| 785 | calc ooze | tr | | | | 45 | 4 | 42 | tr | | 2 | | | | | 7 |
| 857 | calc ooze | 1 | | | | 42 | 3 | 48 | tr | | 6 | | | | | |

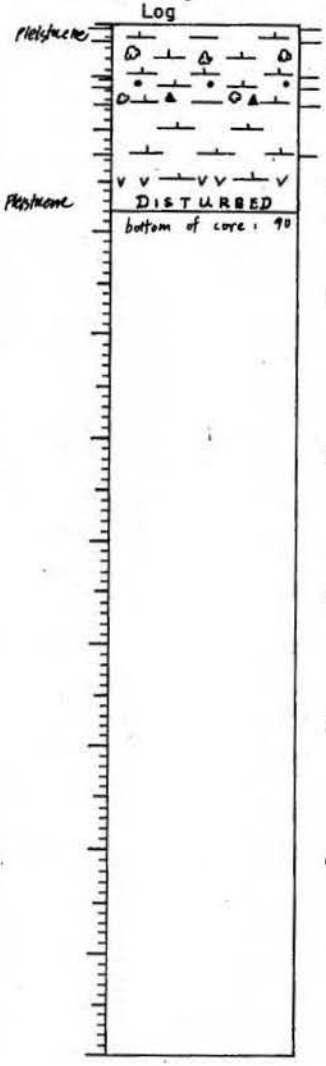


VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 78 Core No. 18 PG
Total Length 90 cm. Lat. 34° 20.84' N Long. 30° 55.84' E Depth 2484 corr. m.
Core condition EXCELLENT Date Described 9 Dec '75 by T Farmer
Physiographic location MEDITERRANEAN RIDGE SW OF CYPRUS, E. MED. SEA

Lithologic Log




Detailed Description

0-1
CALC OOZE
10 YR 5/4 yellow brown
no mottling apparent
silty lutite with scattered forams
G

1-7
HIGHLY CALC CLAY
10 YR 5/3 brown
a few mottles of above unit
smooth, slick lutite
S

7-24
CALC OOZE
10 YR 6/4 light yellow brown, grades to 5/4 and back to 6/4
8-10 cm intense mottling from above unit
silty lutite with scattered forams
thin bed of pteropod shell hash (10 cm)
very gradational

24-28.5
CALC OOZE WITH MN MICRONODULES
grades from 10 YR 6/4 light yellow brown to 5 YR 3/3 dark reddish brown
very finely laminated
silty lutite with scattered forams
S

28.5-38.5
HIGHLY CALC CLAY WITH PYRITE
5 Y 3/2 dark olive gray
abundant very pale brown mottles
slightly silty lutite with scattered forams
very finely laminated sapropel
S

38.5-63
CALC OOZE
2.5 Y 5/2 grayish brown grades to 10 YR 6/3 pale brown
few small mottles throughout
silty lutite, forams grade from scattered to few; 1 cm of biogenous sand at 62 cm
G

63-90
CALC OOZE
10 YR 6/4 light yellow brown
a few mottles throughout
silty lutite, forams grade from common to scattered
74-77.5 cm dark grayish brown (10 YR 4/2) volcanic ash bed; 83-87 irregular void with an inclusion of volcanic ash (10 YR 6/2 light brownish gray) straddling the void; lowest 10 cm are somewhat disturbed
end of core

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

Ship: CHN  Core No. 18 PG

Expedition 119  Station No. 78

Leg No. 2  Total Core Length 90 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | | | | 37 | 1 | 55 | tr | tr | 7 | | | | |
| 4 | highly calc clay | 1 | 1 | | | 81 | tr | 10 | tr | | 7 | | | | |
| 36 | highly calc clay w/pyrite | | | | | 60 | 2 | 15 | | | 8 | | | | 15 |
| 60 | calc ooze | tr | tr | | | 48 | tr | 32 | tr | tr | 20 | | | | |
| 76 | volcanic ash | tr | | | 95 | 1 | tr | tr | | | 4 | | | | |



VISUAL CORE DESCRIPTION



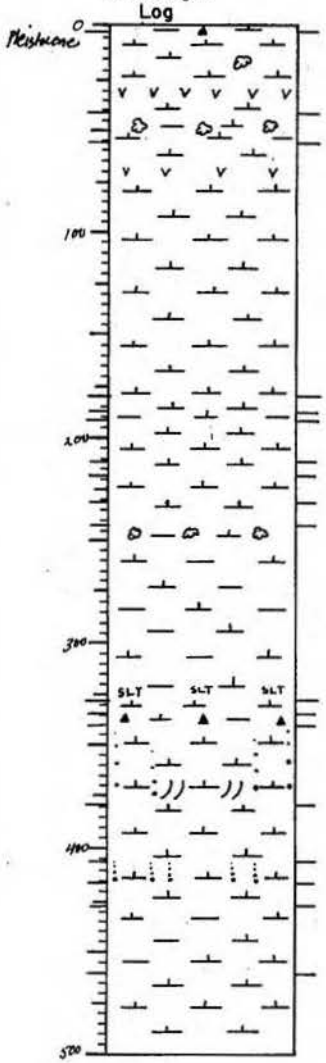
Ship CHN Cruise 119 Leg 2 Sta. 80 Core No. 19 PC

Total Length 833 cm. Lat. 33° 48.8' N Long. 31° 14.5' E Depth 2501 corr. m.

Core condition excellent Date Described 12 Jan 76 by T. FARMER

Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EASTERN MED. SEA

Lithologic Log




Detailed Description

0-3
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
scattered, small, pale brown mottles
slightly silty lutite
sapropel
S, disturbed contact

3-42
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 10 YR 6/3 (varying hues of pale brown)
small, subdued mottles scattered throughout
silty lutite with scattered forams
29-31 cm volcanic ash
S, mottled contact

42-56
HIGHLY CALC CLAY
10 YR 4/3 dark brown
small, pale brown mottles common
smooth, slick lutite grades to a very silty lutite 52-56 cm
S

56-180
CALC OOZE
10 YR 6/3 gradational bands of various pale browns
intermottling between pale brown bands
silty lutite with scattered to common forams
1 cm bed of volcanic ash at 69 cm; 85-86 foram sand
G

180-187
CALC OOZE
10 YR 5/4 yellow-brown
no mottling
stiff lutite with scattered forams
"natural?" curvilinear laminations (2 mm)
S

187-192
CALC CLAY 5 Y 3/2 dark olive gray
no mottling
slightly silty lutite with a few forams
very fine microlaminations
S

192-211
CALC OOZE
5 Y 4/2 olive gray, grades to 10 YR 6/3 pale brown
intermottling between above colors
silty to very silty lutite with forams common
S, mottled contact

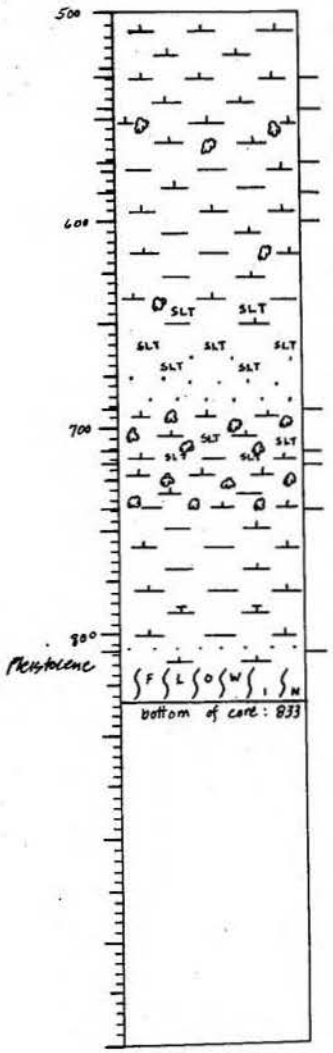
563

VISUAL CORE DESCRIPTION



Ship CHN Cruise 119 Leg 2 Sta. 80 Core No. 19 PC

Lithologic Log




Detailed Description

211-218
CALC OOZE
10 YR 5/3 brown
no mottling
smooth, slick lutite
S

218-232
CALC OOZE
5 Y 5/3 olive
no mottling
silty lutite with scattered forams
G

232-243
CALC OOZE
5 Y 5/3 olive
no mottling
smooth, slick lutite
S

243-328
CALC CLAY
5 Y 3/2 dark olive gray
small, pale mottles common throughout top 15 cm
smooth, slick lutite, except 320-328 cm grades into microlaminated, very silty lutite
S

328-334
CALC OOZE
5 Y 5/2 olive gray
no mottling
silty lutite with scattered forams
S

334-340
CALC CLAY WITH PYRITE
5 Y 3/2 dark olive gray
no mottling
slightly silty lutite
microlaminated sapropel
S

340-379
CALC OOZE
5 Y 4/2 olive gray
no mottling
smooth, sticky lutite, grades smoothly into laminated, cross-bedded biogenic silt and sand
S

379-407
CALC OOZE
5 Y 5/2 olive gray grades to 6/2 light olive gray and back to 5/2
silty lutite with scattered forams, grades to smooth lutite
S

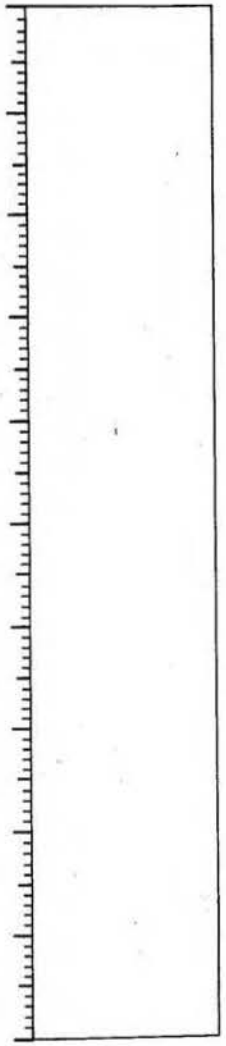
564

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 80 Core No. 19 PC

Lithologic Log



Detailed Description

407-416
CALC OOZE
5 Y 4/2 olive gray
no mottling
very silty lutite, grades to laminated silts
S, but distorted

416-427
CALC OOZE
10 YR 6/3 pale brown
no mottling
silty lutite, forams increase with depth
S

427-461
HIGHLY CALC CLAY
5 Y 2.5/2 black
no mottling
lutite with organic (humus) texture; interbedded with a dark gray silty lutite 457-461 cm
microlaminated sapropel
S

461-529
CALC OOZE
5 Y 6/1 gray, grades to varying hues of 10 YR 7/3 pale brown
minor intermottling between above colors
silty to very silty lutite with forams, grading from few to abundant over two cycles
S

529-545
CALC OOZE
2.5 Y 3/2 very dark grayish brown
no mottling
very silty lutite
finely laminated sapropel interbedded with gray calc ooze
S

545-572
CALC OOZE
10 YR 7/1 light gray, grades to 5 Y 5/2 and 4/2 dark olive gray
intermottling of above colors common
very silty lutite; lutite becomes less silty as forams grade from abundant to very few
S

572-586
CALC CLAY
5 Y 3/2 dark olive gray
no mottling

565

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 80 Core No. 19PC

Lithologic Log

Detailed Description

572-586 (cont.)
smooth, slick lutite, except 576-579 foram-rich sapropelic layer
S

586-600
CALC OOZE
5 Y 3/2 dark olive gray
no mottling
organic-rich lutite with forams common
microlaminated sapropel
S

600-691
HIGHLY CALC CLAY, GRADES TO HIGHLY CALC CLAY/DETRITUS
5 Y 4/2 olive gray
scattered medium-sized, dark olive gray mottles (600-656 cm)
smooth, sticky lutite, grades smoothly to very silty (656 cm) lutite, to medium sand (675 cm)
S

691-711
CALC OOZE GRADES TO CALC OOZE/DETRITUS
5 Y 4/2 olive gray, grades to 6/2 light olive gray, and back to 4/2
very intense, pale mottling becomes siltier at base of unit
silty lutite
top 5 cm straddle end of core sections and are disturbed
G

711-717
HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
scattered, pale mottles
silty lutite, grades to fine sand
S, erosional

717-739
CALC OOZE GRADES TO HIGHLY CALC CLAY
macrolaminated unit of 10 YR 7/3 very pale brown, 5 Y 6/2, 5/2, 4/2 olive grays
intense, pale mottling
silty lutite, forams abundant in two discreet bands
S

739-808
HIGHLY CALC CLAY WITH DETRITUS
5 Y 3/1 very dark gray, grades to 4/1 dark gray
no mottling
smooth, slightly silty lutite interbedded with .5-2 cm 5 Y 3/2 dark olive gray, sapropelic layers; becomes siltier with several fine sand laminae in lowest 15 cm; occasional foram sand lenses and laminations occur in conjunction with sapropelic layers
S, erosional

566

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 80 Core No. 19PC

Lithologic Log

Detailed Description

808-816
CALC OOZE
10 YR 6/3 pale brown
no mottling
very silty to silty lutite; forams vary from common to few

816-833
CALC OOZE
10 YR 6/3 pale brown
flow in
end of core

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

Ship: CHAIN  Core No. 19 PC

Expedition 119  Station No. 80

Leg No. 2  Total Core Length 833 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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) | PYRITE |
| 1 | highly calc clay | tr | | | | 70 | 3 | 18 | tr | | 3 | | | | 6 |
| 4 | calc ooze | 1 | | | | 44 | 5 | 40 | 1 | | 8 | | | | 1 |
| 69 | highly calc clay /volcanic ash | tr | | | 70 | 8 | | 8 | | | 14 | | | | |
| 185 | calc ooze | tr | 12 | | | 45 | 1 | 40 | | | 2 | | | | |
| 216 | calc ooze | tr | tr | | | 60 | tr | 24 | | | 15 | | | | 1 |
| 295 | calc clay | tr | | | | 83 | tr | 6 | | | 8 | | | | 3 |
| 337 | calc clay with pyrite | | | | | 70 | 2 | 11 | | tr | 2 | | | | 15 |
| 363 | calc ooze | 4 | | | | 60 | 4 | 9 | 1 | | 20 | | | | 2 |
| 400 | calc ooze | tr | | | | 66 | 1 | 18 | tr | | 15 | | | | tr |
| 450 | highly calc clay | | | | | 71 | 5 | 10 | | | 2 | 3 | | tr/1 | 8 |
| 526 | nanno ooze | | | | | 18 | 5 | 75 | 1 | | 1 | | | | |
| 540 | calc ooze | tr | | | | 30 | 11 | 43 | 1 | tr | 9 | | | | 6 |
| 590 | calc ooze | tr | | | | 50 | 4 | 37 | tr | | 5 | | | | 4 |
| 670 | highly calc clay/detritus | 40 | | | | 36 | 4 | 10 | | | 7 | | | | 3 |
| 708 | calc ooze/ detritus | 30 | | | | 28 | 2 | 20 | | | 20 | | | | |
| | (cont.) | | | | | | | | | | | | | | |



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

Ship: CHAIN  Core No. 19 PC

Expedition 119  Station No. 80

Leg No. 2  Total Core Length 833 cm

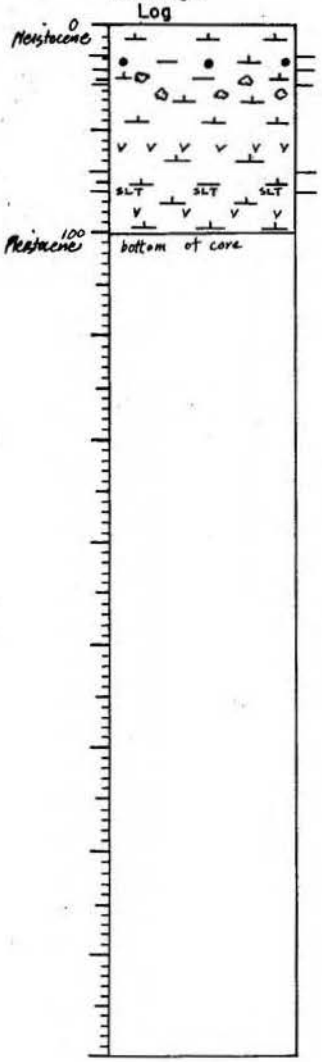
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 768 | highly calc clay with detritus | 15 | | | | 63 | tr | 3 | tr | | 15 | | | | 4 |
| 784 | calc ooze | tr | | | | 45 | 18 | 22 | tr | | 7 | | | | 8 |
| 832 | calc ooze | tr | | | | 47 | 6 | 44 | tr | | 3 | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHN Cruise 119 Leg 2 Sta. 80 Core No. 19 PG
Total Length 101 cm. Lat. 33° 48.8' N Long. 31° 14.5' E Depth 2501 corr. m.
Core condition EXCELLENT Date Described 12 Jan 76 by T FARMER
Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA

Lithologic Log




### Detailed Description

0-14
CALC OOZE
10 YR 6/4 light yellowish brown
no mottling
silty lutite with scattered forams and pteropod fragments
G

14-20
HIGHLY CALC CLAY WITH MN MICRONODULES
5 YR 4/4 reddish brown to 3/4 dark reddish brown
no mottling
silty lutite, forams are common
very fine laminae of pale yellow brown
S

20-27
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
very small, pale brown mottles are common
silty lutite with scattered forams
sapropel
S

27-70
CALC OOZE
2.5 Y 5/2 grayish brown, grades to various hues of pale brown 10 YR 6/3
small, pale brown mottles scattered through top 10 cm; small grayish mottles scattered through pale browns
silty lutite with scattered to common forams
58-60 cm volcanic ash
sharp but mottled contact

70-80
HIGHLY CALC CLAY
10 YR 4/3 dark brown
small, pale brown mottles from above, decrease with depth
smooth, slick lutite, becomes very silty lutite 77-80 cm
S

80-101
CALC OOZE
10 YR 6/3 various hues of pale brown
no mottling
silty lutite, with scattered to common forams
91-92 cm volcanic ash
end of core



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

Ship: CHAIN Core No. 19 PG
Expedition 119 Station No. 80
Leg No. 2 Total Core Length 101 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | 1 | | | 22 | 2 | 66 | | | 9 | | | | |
| 18 | highly calc clay with Mn | tr | 15 | | | 60 | 1 | 21 | | | 3 | | | | |
| 22 | highly calc clay | tr | | | | 70 | 1 | 16 | | | 3 | | | | 10 |
| 76 | highly calc clay | 3 | | | | 72 | tr | 15 | | | 10 | | | | |
| 99 | calc ooze | 1 | | | | 45 | 1 | 48 | | | 5 | | | | |

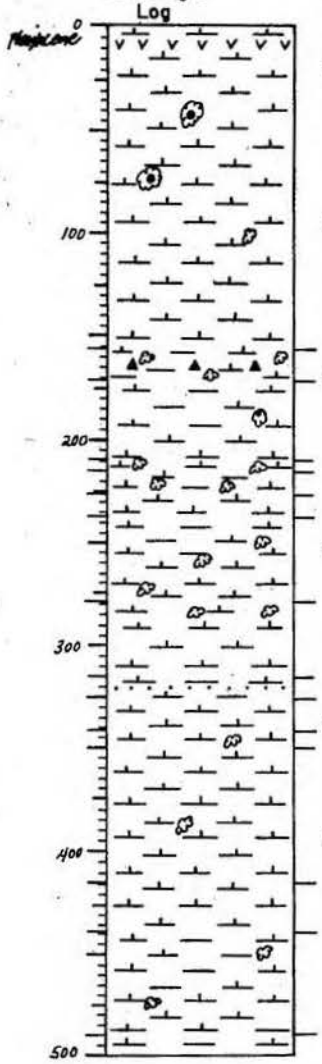
# 571

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 82 Core No. 20 PC
Total Length 890 cm. Lat. 33° 13.885'N Long. 31° 30.0'E Depth 2042 corr. m.
Core condition EXCELLENT Date Described 19 Jan 76 by T Farmer
Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA

Lithologic Log




### Detailed Description

0-156
CALC OOZE
10 YR 6/3 and 5/3, pale brown and brown
scattered intermottling of above colors; occasional dark gray-brown, Mn-rich mottles also appear
moist, silty lutite, forams are scattered throughout
7-8 cm, 10 YR 4/2 dark, grayish brown volcanic ash
S

156-171
HIGHLY CALC CLAY WITH PYRITE
5 Y 3/2 dark olive gray
abundant, small, pale mottles, microlaminated
fairly firm, slightly silty lutite; forams scattered throughout
sapropel
S

171-209
HIGHLY CALC CLAY, GRADES TO CALC OOZE
10 YR 4/1 dark gray, grades to 5/2 dark grayish brown, 6/3 pale brown, and back to 5/2
intermottling of above colors is scattered throughout
slickish lutite, becomes silty in middle of unit, then slightly silty towards bottom; scattered forams throughout
S

209-215
CALC OOZE
5 Y 3/2 dark olive gray
small, pale mottles are common; several larger mottles from above also appear microlaminated
slightly silty, fairly firm lutite, with scattered forams
sapropel
S

215-226
HIGHLY CALC CLAY
10 YR 5/2 grayish brown
small, pale mottles are common, but somewhat clustered
slightly silty lutite with occasional forams
S

226-237
CALC OOZE
5 Y 3/2 dark olive gray
microlaminated
just slightly silty lutite with occasional forams
sapropel
S

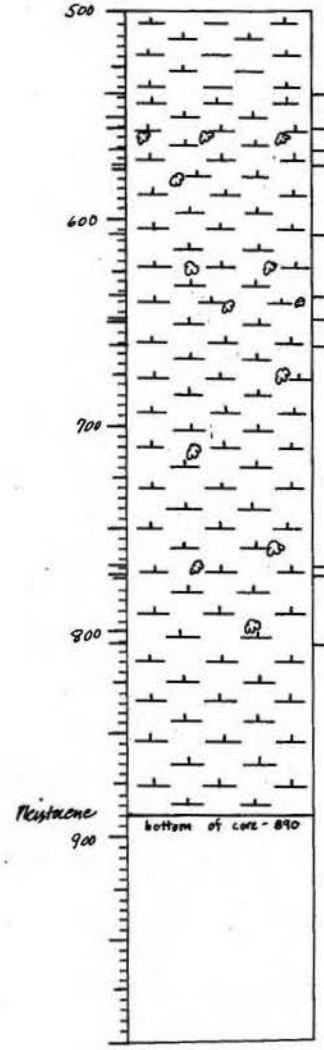
# 572

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 82 Core No. 20 PC

Lithologic Log




### Detailed Description

237-279
HIGHLY CALC CLAY GRADES TO CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown, and minor amounts of very pale brown
mottling of darker brown is abundant in lighter colors
fairly silty lutite throughout
S

279-315
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, small, pale mottles in top 7 cm; alternating light and dark microlaminations throughout
humus-like, organic lutite ; forams scattered throughout
sapropel
S

315-325
HIGHLY CALC CLAY INTERBEDDED WITH DETRITUS
10 YR 4/1 dark gray
no mottling
slightly silty lutite interbedded with silt laminae
S

325-341
CALC OOZE
5 Y 7/1 light gray
several large, gray mottles from above at top
plastic-like, very silty lutite; forams scattered throughout
S

341-350
CALC OOZE
10 YR 7/3 very pale brown
gray, medium-sized mottles common
very compact, very silty lutite
G

350-414
CALC OOZE
10 YR 7/3 very pale brown
subdued mottling is scattered in lower portions
very silty lutite, somewhat compacted; becomes very firm (374-384 cm), and back to fairly compact: forams are scattered throughout
S

414-438
CALC OOZE
5 Y 4/2 and 3/2 olive gray and dark olive gray
microlaminated, interbedded, and occasional mottling with above unit in top 10 cm
extremely silty lutite with very abundant forams, less silty in darker colors
sapropel
S

573

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 82 Core No. 20 PC

Lithologic Log

Detailed Description

438-490
HIGHLY CALC CLAY GRADES TO CALC OOZE
10 YR 6/2 light brownish gray and 2.5 Y 5/2 grayish browns appear as gradational bands
small, pale mottles are common in the darker bands, while larger mottling between above colors is scattered
firm, silty lutite, becomes somewhat less silty with depth
G

490-538
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
microlaminated sapropelic material
organic, humus-like lutite with scattered forams, broken occasionally by firm, smooth, lutite laminations
S

538-556
CALC OOZE
10 YR 6/2 light brownish gray, grades to 2.5 Y 6/2 light brownish gray
minor mottling
silty lutite, becomes very silty as forams increase with depth
S

556-566
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, small, pale mottles
slightly silty, sapropel-like lutite interrupted by smooth lutite
sapropel
S

566-573
CALC OOZE
5 Y 4/2 olive gray
homogeneous throughout
slightly silty lutite with scattered forams
G, mottled contact

573-608
CALC OOZE
5 Y 3/2 dark olive gray
alternately light and dark microlaminae; several large mottles present in top portion
silty, humus-like lutite broken in middle by smooth lutite (2 cm)
S

574

VISUAL CORE DESCRIPTION



Ship CHAN Cruise 119 Leg 2 Sta. 82 Core No. 20 PC

Lithologic Log

Detailed Description

608-637
CALC OOZE
5 Y 5/2 olive gray, grades to 2.5 Y 6/2 varying hues of light brownish gray
small mottles are common in the paler colors in the middle of the unit
silty lutite; forams are common
S

637-648
CALC OOZE
5 Y 3/2 dark olive gray
intense, pale mottling in upper 7 cm of sapropel
silty, humus-like lutite, forams are common
S

648-661
CALC OOZE
5 Y 5/2 olive gray grades to 10 YR 5/2 grayish brown
no mottling
fairly smooth, silty lutite with few forams
G, mottled contact

661-769
CALC OOZE
2.5 Y 5/2 varying hues of grayish brown appear in gradational bands with 10 YR 6/3 various hues of pale brown
intermottling of above colors is generally abundant throughout
silty to slightly silty lutite, forams are scattered to common throughout
S

769-773
CALC OOZE
5 Y 3/2 dark olive gray
small, pale mottles are common
slightly silty lutite with scattered forams
G

773-806
CALC OOZE
5 Y 5/2 olive gray grades to 2.5 Y 5/2 grayish brown
mottling of above colors is scattered
slightly silty lutite, becomes fairly smooth as forams decrease with depth
G

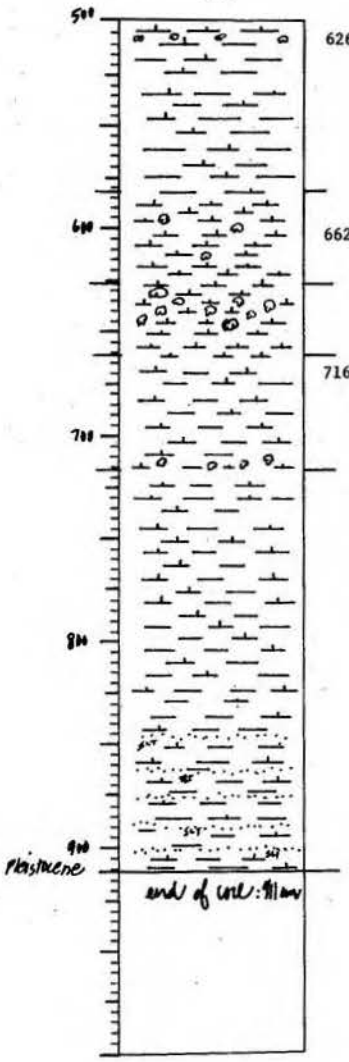
806-890
CALC OOZE
2.5 Y 5/2 various hues of grayish brown appear in gradational bands with 10 YR 6/3 pale browns
mottling is generally scarce except near top; several olive yellowish discolorations also appear 749-754 cm
silty to slightly silty lutite, forams are few to scattered
end of core

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 83 Core No. 21PC

Lithologic Log




### Detailed Description

626-662
CALC OOZE
5 Y 4/2 olive gray
intense, well-preserved light olive gray and olive mottling and burrowing 626-643, followed by a zone of innumerable microlaminae; generally olive gray hues with some very dark gray and black
firm, compact lutite with abundant forams and lithified calcareous fragments
S, horizontal

662-716
HIGHLY CALC CLAY
5 Y 6/2 light olive gray grades to 5/2 olive gray
very fine, light gray mottling abundant at unit basal contact
firm, compact, plastic-like lutite with abundant forams
S

716-911
HIGHLY CALC CLAY WITH LAMINATIONS OF DETRITUS GRADES TO SLIGHTLY CALC CLAY WITH LAMINATIONS OF DETRITUS
5 Y 3/2 dark olive gray
thick and thin laminations abundant 850-911 cm.; also some foram-rich grayish-brown mottling 716-730 cm.
firm, slightly silty lutite with a number of varied textures of lamination; some very silty, others stiffly lithified and a few sapropel-like calc rich
a bit of coring disturbance is evident in shearing of horizontal laminae 850-880 cm.
end of core



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

Ship: CHAIN Core No. 21 PC

Expedition 119 Station No. 83

Leg No. II Total Core Length 911 cm

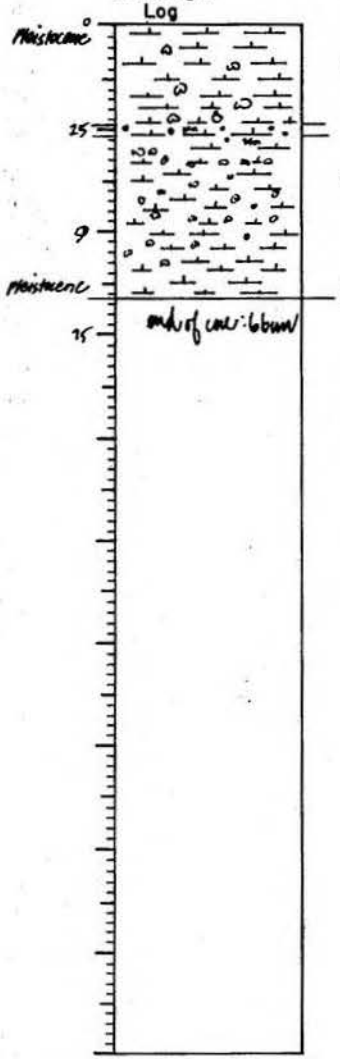
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 cm | calc ooze | 2 | 1 | | | 43 | 5 | 40 | 1 | | 5 | | | | 3 |
| 53 | highly calc ooze | 4 | 1 | | | 71 | 4 | 15 | tr | | 4 | | | | 1 |
| 150 | calc ooze | 2 | tr | | | 52 | 4 | 35 | 1 | | 6 | | | | tr |
| 250 | highly calc clay | 4 | tr | | | 67 | 1 | 20 | 1 | | 7 | | | | |
| 300 | calc ooze | 3 | tr | | | 40 | 6 | 45 | 1 | | 5 | | | | tr |
| 400 | highly calc clay | 3 | tr | | tr | 68 | 1 | 22 | 1 | | 4 | | | | 1 |
| 500 | calc ooze | 2 | tr | | | 57 | 2 | 25 | 1 | | 3 | | | | 10 |
| 581 | calc clay | 2 | tr | | tr | 84 | tr | 10 | tr | | 2 | | | | 2 |
| 583 | calc ooze | 2 | tr | | | 21 | 8 | 60 | 3 | | 6 | | | | tr |
| 650 | calc ooze | 2 | 1 | | | 13 | 9 | 58 | 2 | | 5 | | | | 10 |
| 750 | highly calc clay | 4 | | | | 67 | 1 | 20 | 1 | | 6 | | | | 1 |
| 850 | highly calc clay | 2 | | | | 77 | tr | 15 | tr | | 4 | | | | 2 |
| 898 | detritus | 78 | tr | | | 10 | | 3 | | | 5 | | | | 4 |
| 910 | slightly calc clay | 6 | | | | 84 | tr | 2 | tr | | 3 | | | | 5 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 115 Leg II Sta. 83 Core No. 21 PG
Total Length 66 cm. Lat. 30° 54.87'N Long. 31°16.38'E Depth 1529 m.corr.
Core condition EXCELLENT Date Described 20 Jan 76 by J. Bunda
Physiographic location CENTRAL MID CONE., EASTERN MEDITERRANEAN.

Lithologic Log




### Detailed Description

0-24
CALC OOZE
10 YR 6/4 light yellowish brown
common very pale brown and dark brown mottling
slightly silty lutite with scattered forams
S

24-26
CALC OOZE
10 YR 4/4 dark yellowish brown
innumerable fine micro laminae found throughout
smooth, slick lutite with a few scattered forams
S, inclined 10°

26-66
CALC OOZE WITH Mn MICRONODULES
5 Y 3/2 dark olive gray
intense, very fine light gray mottling and flecks 26-50 cm
moist, smooth lutite with scattered forams in the mottling zone
end of core



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

Ship: CHAIN Core No. 21 PG
Expedition 115 Station No. 83
Leg No. II 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 | PYRITE |
| 1 | calc ooze | 3 | tr | | | 26 | 6 | 55 | 2 | | 6 | | | | 2 |
| 25 | calc ooze w/Mn micronodules | tr | 15 | | | 13 | 8 | 55 | 4 | | 5 | | | | tr |
| 40 | calc ooze | 2 | 1 | | | 46 | 2 | 45 | 1 | | | | | | 3 |
| 65 | calc ooze | 2 | tr | | | 64 | tr | 30 | tr | | 2 | | | | 2 |

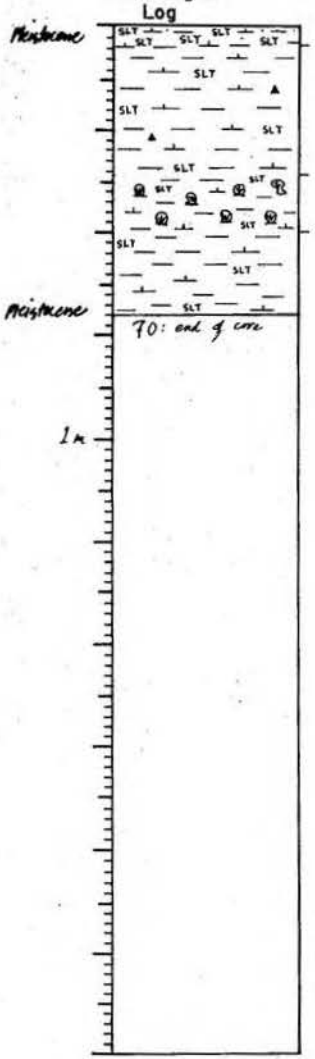
583

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 87 Core No. 4 GC
Total Length 70 cm. Lat. 31° 46.0' N Long. 31° 05.2' E Depth 36 corr. m.
Core condition excellent Date Described 18 Sept. 1975 by H. Farmer
Physiographic location Continental Shelf due North of Cairo, Egypt - Eastern Med.

Lithologic Log




### Detailed Description

0-4
CALC CLAY/DETRITUS
10 YR 3/2 very dark gray-brown
very coarse silt at top, grades into next unit; a few bioclastic grains
G

4-36
HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray
slightly silty lutite; fewer bioclastic grains than above unit, except lower 10 cm, shells are more common as grades into lower unit
large, irregularly-shaped patch of above color extends from 4-20
G

36-50
SHELL HASH IN MATRIX OF HIGHLY CALC CLAY/DETRITUS
5 Y 3/2 dark olive gray (lutite fraction)
primarily shells (pteropods and others) with small amount of lutite
S

50-70
HIGHLY CALC CLAY WITH DETRITUS
5 Y 3/2 dark olive gray
firm lutite
51-52 slightly lighter colored with common bioclastic grains; 5 mm layer at 60 cm with small black spots and a few bioclastic grains; 53-57 cm very silty
end of core

584

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

Ship: CHN Core No. 4 GC
Expedition 119 Station No. 87
Leg No. 2 Total Core Length 70 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains / opaques | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc clay/ detritus | 60/ 5 | | | tr | 20 | tr | tr | | | 15 | | | tr | tr |
| 30 | highly calc clay/ detritus | 20/ 12 | | | | 42 | tr | 1 | | | 23 | | | tr | 2 |
| 60 | *calc ooze/ detritus | 30/ 15 | | | | 24 | | 1 | | | 30 | | | tr | tr |
| 69 | highly calc clay with detritus | 15/ 15 | | | | 50 | | tr | | | 20 | | | tr | tr |

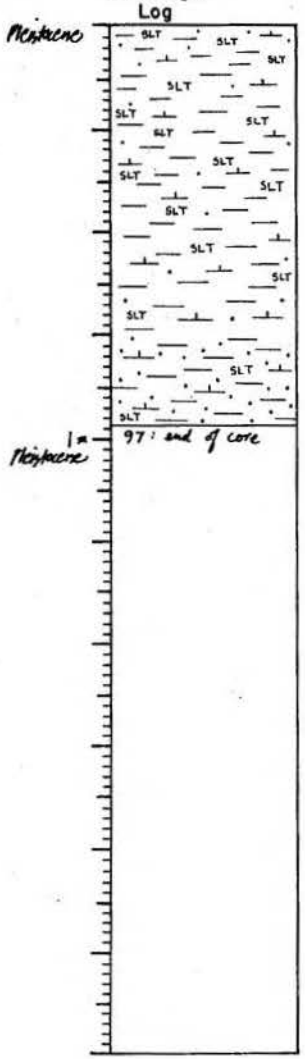
*from laminae with numerous black flecks-they were not identifiable but are generally ragged, elongate, and opaque, and appear to be organic detritus

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 109 Core No. 5 gc
Total Length 97 cm. Lat. 31° 43.8' N Long. 31° 04.25' E Depth 20 corr m
Core condition excellent Date Described 8 Sept '75 by H. FARMER
Physiographic location CONTINENTAL SHELF NORTH OF CAIRO, EGYPT

Lithologic Log




### Detailed Description

0-97
CALC CLAY/DETRITUS
10 YR 3/2 very dark gray brown
no mottling
silt with some intermixed lutite, and a few shell fragments 0-57
small gastropod at 2 cm
end of core



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

Ship: CHN Core No. 5 GC
Expedition 119 Station No. 109
Leg No. 2 Total Core Length 97 cm

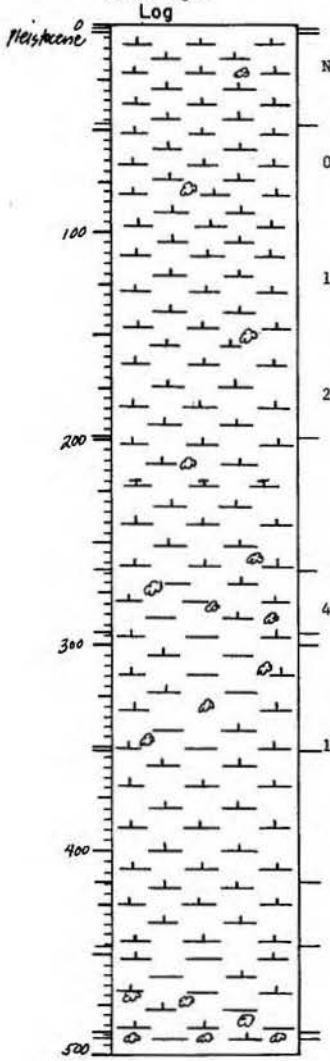
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | silt/sand Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc clay/ detritus | 25/20 | | | | 45 | | tr | | | 10 | | | |
| 64 | calc clay w/ detritus | 5/20 | tr | | tr | 65 | | tr | | | 10 | | | |
| 96 | calc clay/ detritus | 7/38 | | | | 40 | tr | tr | | | 15 | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 115 Core No. 22 PC
Total Length 953 cm. Lat. 32° 46.0' N Long. 31° 53.3' E Depth 1581 corr. m.
Core condition EXCELLENT Date Described 22 Jan 76 by T. Farmer
Physiographic location GRABEN IN ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA.

Lithologic Log




### Detailed Description

Numerous sheared laminations, highly distorted, inclined contacts, and irregular conbinations of units suggest the sediment in this core has been disoriented from its normal stratigraphic position either in the coring, or possibly handling stages

0-1
CALC OOZE
10 YR 4/4 dark yellowish brown
no mottling
silty lutite, scattered forams
S, irregular

1-2
HIGHLY CALC CLAY
2.5 Y 3/2 very dark gray brown
common, small, pale brown mottles
slightly silty lutite with scattered forams
S, inclined

2-47
CALC OOZE
grades from 2.5 Y 4/2 dark grayish brown, to 10 YR 5/3 brown
12-13 cm abundant, small, very dark brown mottles; 19-21 cm pale brown lamination with mottles extending to 24 cm
silty lutite, somewhat siltier towards bottom, with scattered forams and pteropods
37-41 cm very silty, somewhat compacted layer
S, very distorted and irregular

47-199
CALC OOZE
subtle hues of 10 YR 4/2 dark grayish brown and 4/3 brown
minor mottling of above colors is scattered throughout
slightly silty lutite with few to scattered forams
S

199-264
CALC OOZE
10 YR 5/3 brown, tends towards pale brown 6/3, then 5/2 and 4/2 grayish browns
scattered, subtle, medium mottles 203-222 cm, 257-261 cm
slightly silty lutite, becomes smoother with depth; generally few forams, except foram sand lamination at 209 cm, and abundant forams and pteropods from 217-225 cm
G

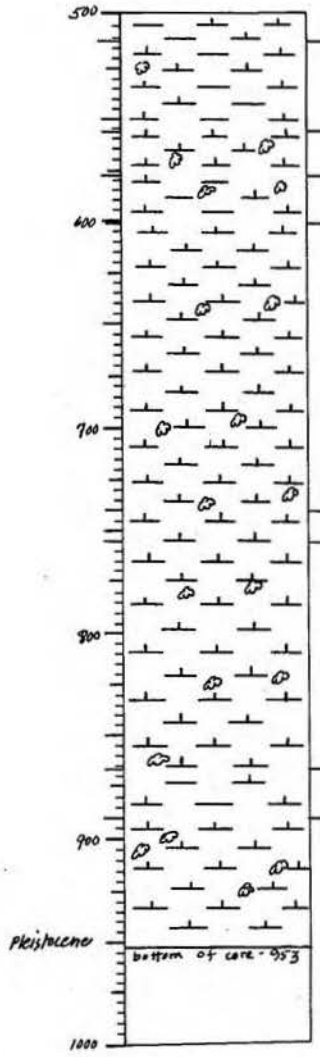


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 22 Sta. 115 Core No. 22 PC

Lithologic Log




### Detailed Description

264-294
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
small, pale mottles common
firm, slightly silty lutite with common pteropods
microlaminated sapropel; laminations were all inclined, probably when lower sections were disturbed
S, inclined

294-300
HIGHLY CALC CLAY
2.5 Y 3/2 very dark grayish brown
homogeneous throughout
smooth lutite with no forams
S, but very disturbed

300-352
HIGHLY CALC CLAY
5 Y 5/2 olive, grades to 4/2 and 3/2 dark olive gray, and back to 4/2
medium size mottles of above colors are common; however, there is also severe disturbance in this unit, particularly of the dark olive gray
firm, slightly silty lutite; pteropods and forams are scattered throughout
S

352-414
CALC OOZE
10 YR 6/3, 7/3 pale browns
a few white mottles appear from 377-389; a dark olive brown mottle at 358 cm and 412 cm
very firm, very silty lutite, forams are scattered to common
384 cm - 2 cm limestone fragment along core side
G

414-446
CALC OOZE
2.5 Y 3/2 very dark grayish brown
414-427 cm severely marbled with paler colors
firm, very silty lutite (sapropelic), with abundant forams 428-439, interrupted by slightly silty (olive gray 5 Y 4/2) lutite 439-442 cm
S, inclined

446-488
HIGHLY CALC CLAY
grades from 2.5 Y 6/2 light brownish gray, to 2.5 Y 5/2 dark grayish brown
a few, very dark gray mottles are present from 447-461; mottling between primary colors is common from 465-488
firm, grades from silty to slightly silty lutite
S

589

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 115 Core No. 22PC

Lithologic Log

Detailed Description

488-491
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
abundant, small, pale mottles
fairly smooth lutite, with few forams
S

491-512
HIGHLY CALC CLAY
5 Y 4/2 varying hues of olive
scattered, pale mottling from above; also an olive mottle is present at 510 cm
fairly smooth lutite with scattered forams
G

512-557
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray and 10 YR 3/2 very dark grayish brown
several large, burrow-like olive mottles appear from 520-545 cm; however, a severely distorted lamination (?) also suggests coring disturbance
interbedded, firm sapropel (humus-like lutite) and very smooth lutite; forams are few to scattered in the sapropels
alternate light and dark microlaminations in sapropels
S, but sharply distorted

557-577
CALC OOZE
5 Y 6/2 light olive gray
three large, dark olive gray mottles appear in middle; subtle, very small mottles are common throughout
slightly silty lutite with scattered forams
S, inclined

577-601
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
numerous, small, pale mottles in top 12 cm; also, several large burrows are present
silty, humus-like lutite, with forams and pteropods common
S, but shows en echelon faulting

601-740
CALC OOZE
10 YR 4/2 dark grayish brown, grades to 5/2 grayish brown, and back to 4/2
abundant mottling of darker brown occurs in lighter colors; 2 large burrows appear at 607 cm and one at 690 cm
slightly silty lutite with few forams
G

590

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 115 Core No. 22PC

Lithologic Log

Detailed Description

740-755
CALC OOZE
5 Y 5/3 olive
small, rusty, olive-yellow mottles are scattered from this unit into top of lower unit
fairly smooth lutite
S, distorted

755-867
CALC OOZE
varying hues of 5 Y 5/2 olive gray and 5/3 olive
small and large mottles of above colors are common; sheared and folded laminations indicate disturbance during coring
somewhat sticky, slightly silty lutite, few forams
S, inclined 70°

867-890
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
several large, pale olive mottles and laminations are present
slightly silty lutite, forams are common
S, distorted

890-953 CALC OOZE
5 Y 4/2 olive gray grades to 5/2 (olive gray) and back to 4/2
dark olive gray mottles cluster at various points throughout unit
smooth, slightly silty lutite, forams occasionally concentrated
end of core

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

Ship: CHN  Core No. 22 PG

Expedition 119  Station No. 115

Leg No. 2  Total Core Length 953 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | 3 | | | 47 | 2 | 44 | tr | | 4 | | | | |
| 90 | calc ooze | 1 | tr | | tr | 56 | 1 | 38 | tr | | 4 | | | | |
| 152 | highly calc clay | 6 | | | | 65 | tr | 22 | | | 7 | | | | |
| 245 | calc ooze | 1 | | | | 62 | tr | 35 | tr | | 2 | | | | |
| 306 | highly calc clay | 3 | 1 | | tr | 69 | 2 | 21 | tr | | 4 | | | | tr |
| 338 | highly calc clay | tr | | | tr | 83 | tr | 15 | tr | | 2 | | | | tr |
| 367 | calc ooze | 3 | | | | 34 | 8 | 38 | 7 | | 10 | | | | |
| 433 | calc ooze | tr | | | | 61 | 10 | 25 | tr | | 2 | | | | 2 |
| 465 | highly calc clay | 1 | tr | | | 72 | tr | 25 | tr | | 2 | | | | |
| 546 | highly calc clay | | | | tr | 70 | 1 | 26 | tr | | | | | | 3 |
| 615 | highly calc clay | 2 | tr | | | 70 | tr | 26 | tr | | | | 2 | | |
| 690 | calc ooze | 1 | tr | | | 66 | tr | 30 | | | 3 | | | | |
| 752 | calc ooze | tr | tr | | | 39 | tr | 60 | | | 1 | | | | |
| 842 | calc ooze | 2 | 1 | | | 43 | tr | 50 | | | 4 | | | | |
| 880 | highly calc clay | | | | | 72 | 1 | 23 | tr | | 1 | | | | 3 |
| 952 | calc ooze | 1 | tr | | | 68 | tr | 28 | | | 3 | | | | |



VISUAL CORE DESCRIPTION  Page 1 of 1

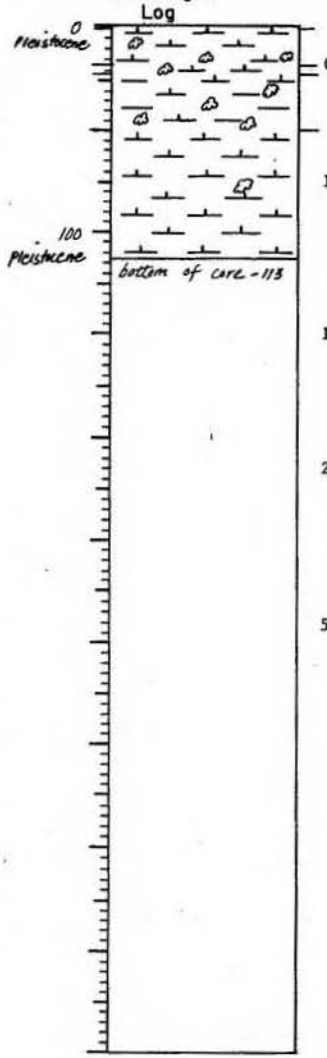
Ship CHAIN  Cruise 119  Leg 2  Sta. 115  Core No. 22 PG

Total Length 113 cm.  Lat. 32° 46.0' N  Long. 31° 53.3' E  Depth 1581 corr. m.

Core condition EXCELLENT  Date Described 22 Jan 76 by T Farmer

Physiographic location GRABEN IN ISIS RIDGE COMPLEX, NILE CONE, EAST. MED. SEA

Lithologic Log




Detailed Description

0-1
CALC OOZE
10 YR 4/3 brown
homogeneous throughout
smooth, slick lutite
S

1-17
CALC OOZE
10 YR 5/4 yellowish brown
mottling in various hues of yellowish brown is common; increases with depth
silty lutite, forams common, pteropods common at contact with upper unit
G, and heavily mottled

12-22
CALC OOZE
10 YR 4/4 dark yellowish brown
heavily mottled with above unit
silty lutite, increasingly silty with depth, forams common
S

22-50
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
innumerable, small, pale mottles; several large, grayish-brown burrows in top 15 cm
slick, slightly silty lutite with forams and pteropods common
S

50-113
CALC OOZE
10 YR 4/2 dark grayish brown, tends toward 5/2 with depth
scattered intermottling of above colors
slick, slightly silty lutite with scattered forams and pteropods; becomes considerably siltier in lowest 10 cm
end of core

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

Ship: CHN  Core No. 22PG

Expedition 119  Station No. 115

Leg No. 2  Total Core Length 113 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | calc ooze | 1 | tr | | | 66 | 1 | 27 | | | 5 | | | | tr |
| 7 | calc ooze | 1 | 1 | | | 40 | 3 | 47 | 2 | | 6 | | | | |
| 19 | calc ooze | tr | 4 | | | 53 | 2 | 40 | tr | | 1 | | | | |
| (pale 35 mottle) | calc ooze | tr | tr | | | 60 | 1 | 34 | 1 | | 3 | | | | 1 |
| (dark 46 area) | highly calc clay | | | | | 82 | 1 | 15 | tr | | 1 | | | | 1 |
| 109 | calc ooze | 2 | tr | | | 60 | 2 | 30 | tr | | 5 | | | | 1 |



VISUAL CORE DESCRIPTION  Page 1 of 2

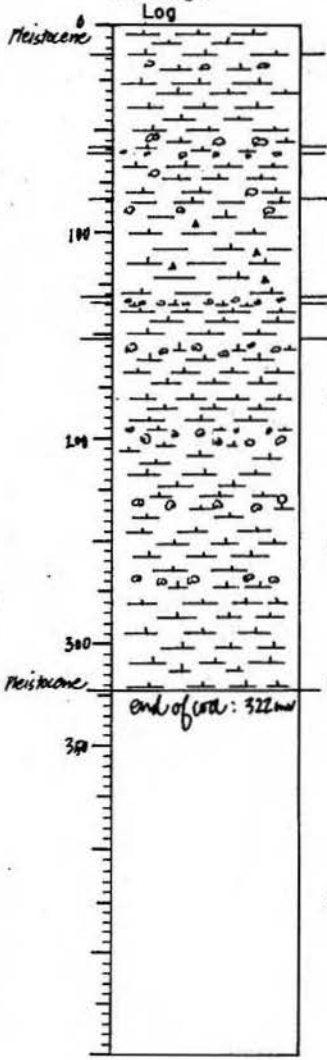
Ship CHAIN Cruise 119 Leg II Sta. 116 Core No. 23PC

Total Length 322 cm. Lat. 33° 30.5'N Long. 31° 52.6'E Depth 2142 m. corr.

Core condition EXCELLENT Date Described 26 Jan. 76 by J. Broda

Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EASTERN MED.

Lithologic Log




Detailed Description

0-13
CALC OOZE
10 YR 6/4 light yellowish brown and 5 Y 3/2 very dark gray
irregular mixing of the two colors above
moist, smooth lutite with an irregular ashy inclusion at unit basal contact
entire unit disturbed, compacted, and disoriented
S, irregular

13-58
CALC OOZE
10 YR 6/3 pale brown
irregular, light olive brown mottling 13-18 cm, 51-56 cm
moist, very slightly silty lutite with traces of forams: a fine zone of pteropod/shell fragments is found at 30 cm
very S, horizontal

58-62
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, very fine, light gray mottles and flecks
slightly silty foram/pteropod-rich, sapropel-like lutite
distinct, light gray band, 1 cm wide, at unit basal contact
S, irregular

62-83
CALC OOZE
5 Y 6/2 light olive gray
slight, faint, white marbling and mottling throughout
firmer, more compact lutite with scattered forams and small lithified, white, calcareous lumps
S, inclined 5°

83-131
HIGHLY CALC CLAY WITH PYRITE
5 Y 3/2 very dark olive gray
fine (1 mm), inclined, olive and olive gray microlaminae throughout: also a bit of pale olive mottling common, 83-88 cm
stiffer, more compact, nearly mulch-like, foram-rich lutite with a few scattered, white, lithified calcareous fragments
sapropel zone: coring disturbance evident 124-131 cm
very S, irregular

131-134
CALC OOZE
2.5 Y N 7/ light gray
no mottling

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 116 Core No. 23PC

Lithologic Log

Detailed Description

131-134 (cont.)
completely lithified, brittle and fragmented zone of limestone and cemented lutite
very S, irregular

134-152
CALC OOZE
5 Y 6/2 light olive gray
homogeneous throughout
firm, plastic-like lutite with scattered forams
very S, horizontal

152-322
CALC OOZE
5 Y 4/2 olive gray, grades to 3/2 dark olive gray
several zones of extensive, light olive gray mottling 152-160 cm, 194-203 cm, 226-236 cm, 264-270 cm: also, two very distinct, light olive gray zones break up sapropel 218-225 cm, 294-307 cm: some fine suggestions of laminations are found 183-194 cm
stiff, more compact, foram-rich lutite with extremely abundant tests in the zones 205-213 cm, 280-283 cm; smoother lutite is found in the light olive gray bands
end of core



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

Ship: CHAIN Core No. 23 PC

Expedition 119 Station No. 116

Leg No. 2 Total Core Length 322 cm

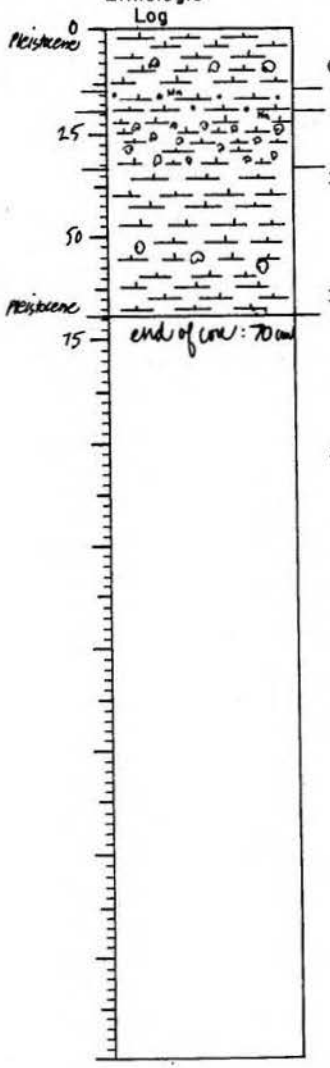
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | REMARKS |
| 1 | calc ooze | 3 | 1 | | | 25 | 11 | 45 | tr | tr | 15 | | | | |
| 30 | calc ooze | 2 | tr | | | 31 | 10 | 40 | 7 | | 10 | | | | |
| 70 | calc ooze | 2 | tr | | | 50 | 8 | 30 | tr | | 10 | | | | |
| 100 | highly calc clay w/pyrite | 2 | | | | 57 | 12 | 10 | tr | | 3 | | | | 16 |
| 133 | calc ooze | tr | | | | 10 | 1 | 8 | | | 81 | | | | tr |
| 145 | calc ooze | 3 | tr | | | 27 | 6 | 55 | 2 | | 7 | | | | tr |
| 220 | calc ooze | 5 | tr | | | 56 | 5 | 30 | tr | | 4 | | | | |
| 250 | calc ooze | 2 | | | | 49 | 4 | 28 | 4 | | 3 | | | | 10 |
| 321 | calc ooze | 2 | 1 | | | 33 | 8 | 40 | 3 | | 5 | | | | 8 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 116 Core No. 23PG
Total Length 70 cm. Lat. 33° 30.5'N Long. 31° 52.6'E Depth 2142 m.corr.
Core condition EXCELLENT Date Described 21 Jan 76 by J. Brooks
Physiographic location ISIS RIDGE COMPLEX, NILE CONE, EASTERN MED.

Lithologic Log




### Detailed Description

0-14
CALC OOZE
10 YR 6/4 light yellowish brown
a bit of faint gray mottling common 8-12 cm
slightly silty lutite with scattered forams
S, horizontal

14-19
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
innumerable, fine, dark brown microlaminae throughout
smooth lutite with just a few forams
S, horizontal

19-33
CALC OOZE
5 Y 3/2 dark olive gray
intense, tiny, white and light gray mottles and flecks throughout sapropel zone
moist, slick lutite with scattered forams and white shell/pteropod fragments
G

33-70
CALC OOZE
10 YR 6/3 pale brown, grades to 6/4 light yellowish brown
common, very pale brown mottling 50-64 cm
slightly silty lutite with scattered forams and ashy pockets
end of core



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

Ship: CHAIN Core No. 23 PG
Expedition 119 Station No. 116
Leg No. 2 Total Core Length 70 cm

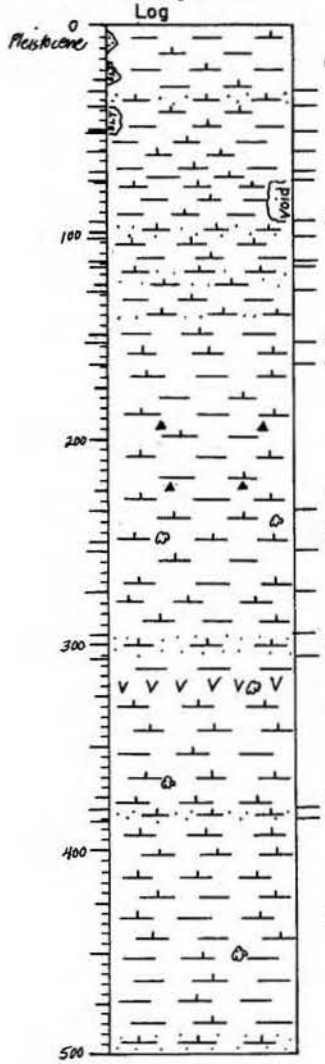
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 2 | 3 | | | 23 | 8 | 55 | 4 | | 5 | | | | |
| 16 | calc ooze w/Mn micronodules | 2 | 15 | | | 41 | 3 | 35 | tr | | 4 | | | | |
| 25 | calc ooze | 1 | | | | 18 | 7 | 55 | 3 | | 4 | | | | 12 |
| 69 | calc ooze | 2 | tr | | 10 | 26 | 4 | 50 | 2 | | 6 | | | | |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 118 Core No. 24 PC
Total Length 711 cm. Lat. 33° 51.6' N Long. 31° 52.4' E Depth 2636 corr m.
Core condition EXCELLENT Date Described 31 Jan 76 by T FARMER
Physiographic location ABYSSAL HILLS DUE W. of ERATOSTHENES SEAMOUNT, EMS.

Lithologic Log




### Detailed Description

0-30
CALC CLAY
10 YR 4/2 dark grayish brown
homogeneous, except for two silt clasts along side of core liner, and a few, pale brown marbles indicating mixing near the top
smooth, slick, unconsolidated lutite
S

30-38
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
homogeneous throughout
silt
S

38-51
CALC OOZE OVERLIES CALC CLAY
10 YR 6/3 pale brown (1 cm), followed by 2.5 Y 4/4 olive brown
minor mottling of pale brown into olive brown; dark grayish brown, silty lutite clast extends along core liner
silty lutite with pteropods common (pale brown) overlies a smooth, slick, unconsolidated lutite
S

51-61
CALC CLAY
10 YR 4/2 dark grayish brown
homogeneous throughout
smooth, slick, unconsolidated lutite
S

61-70
CALC OOZE OVERLIES CALC CLAY
10 YR 6/3 pale brown (1 cm) overlies 2.5 Y 4/4 olive brown
minor mottling of pale brown into olive brown
silty lutite with common biogenous grains (pale brown) overlies a smooth, unconsolidated lutite
S

70-74
CALC CLAY
10 YR 4/2 dark grayish brown
homogeneous throughout
smooth, slightly silty, unconsolidated lutite
S

74-95
CALC OOZE OVERLIES CALC CLAY
10 YR 6/3 pale brown (2.5 cm) overlies marbled and disturbed area of 2.5 Y 4.4 olive brown and 10 YR 4/2 dark grayish brown

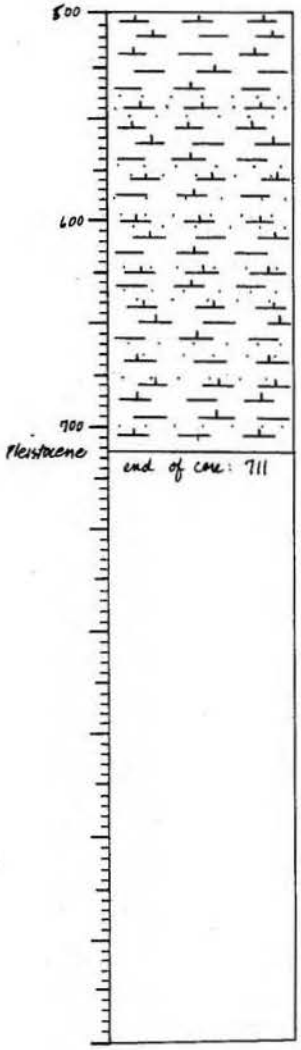


## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 118 Core No. 24 PC

Lithologic Log




### Detailed Description

74-95 (cont.)
scattered mottling of pale browns in rest of unit which is severely disturbed as a result of mixing to fill a small void in core
silty lutite with pteropods and forams common (pale brown) overlies slightly silty, unconsolidated lutite
G

95-103
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
no mottling
silt, grades to silty lutite in last 2 cm
S

103-114
CALC OOZE OVERLIES CALC CLAY
10 YR 6/3 pale brown (2 cm) overlies 2.5 Y 4/4 olive brown
minor mottling of pale brown into olive brown
silty lutite with common biogenic grains (pale brown) overlies smooth, slick, unconsolidated lutite
S

114-116
CALC CLAY
10 YR 4/2 dark grayish brown
homogeneous throughout
smooth, slick, unconsolidated lutite
S

116-128
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
no mottling
silt, laminated with very silty lutite
S

128-153
HIGHLY CALC CLAY GRADES TO CALC OOZE/DETRITUS AND BACK TO HIGHLY CALC CLAY
2.5 Y 4/4 olive brown
no mottling
smooth, slick lutite, grades to silt at 143 cm and back to very silty lutite
S

153-164
CALC OOZE
10 YR 6/3 pale brown with a hint of 6/2 light brownish gray
minor subdued intermottling
slightly silty lutite; forams and pteropods are common
S

601

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 118 Core No. 24 PC

Lithologic Log

Detailed Description

164-235
HIGHLY CALC CLAY INTERBEDDED WITH HIGHLY CALC CLAY
10 YR 4/2 dark grayish brown and 5 Y 3/2 dark olive gray
the slick lutites are generally homogeneous, excepting a few, tiny, black mottles 184-194; some of the sapropels show subdued laminations
smooth, slick lutite interbedded with silty, humus-like, sapropelic lutites; forams and pteropods are common in the sapropels; 198-202 cm, silt bed with gradational contacts
sapropels- 175-177 cm, 203 cm, 209-215 cm, 229-235 cm
S

235-255
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown
intermottling is common
silty lutite, forams are common
S, but heavily mottled

255-275
HIGHLY CALC CLAY
2.5 Y 4/2 dark grayish brown
a scattering of pale brown mottles appear in two clusters
smooth, slick lutite
S

275-295
CALC OOZE GRADES TO HIGHLY CALC CLAY
10 YR 5/3 brown, grades to 2.5 Y 4/2 dark grayish brown
few pale mottles
silty lutite, with common bioclastic material (2 cm); grades to smooth, slick lutite
S

295-307
CALC OOZE/DETRITUS
2.5 Y 4/2 dark grayish brown
no mottling
laminated silt
S

307-380
CALC OOZE WITH MINOR AMOUNT OF HIGHLY CALC CLAY
10 YR 6/3 pale brown, 5/3 brown, and minor amount of 4/2 dark grayish brown; above colors appear in macro-laminated unit with the darkest color in the middle; intermottling is scattered throughout
the paler colors are silty lutites with fairly common forams, while the darker browns tend to be very smooth, or only slightly silty, with few forams
319-323 cm volcanic ash
G (texturally)

602

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 118 Core No. 24 PC

Lithologic Log

Detailed Description

380-386
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
no mottling
very, very silty lutite with several distorted, pale, silt laminations
S

386-711
CALC OOZE (PALE LAMINATIONS), GRADES TO HIGHLY CALC CLAY, CALC CLAY, AND FINALLY CALC OOZE/DETRITUS
10 YR 5/3 and 4/3 browns, and lesser amounts of 6/3 pale brown, and 4/2 dark grayish brown
these colors appear in repeated cycles of macrolaminations, generally grading from light to dark colors: mottling is scattered here and there throughout, but is never very intense
the pale browns abundant at top are generally silty lutites with forams and pteropods fairly common: the remaining sediment is fairly smooth, slick lutite; the repeated lutite cycles commonly end with a laminated, grayish brown silt; these occur at 490-500, 539-550, 570-576, 580-583, 593-603, 621-624, 633-641, 658-666, 673-677, 699-702
contacts between laminations are generally sharp, although occasionally disturbed: 695-700 cm, 5 Y 3/2 dark olive gray sapropel with subtle laminations: 679 cm, thin bed of shell hash
end of core

NOTE: After comparison with the pilot core, it seems likely that the piston core missed the top 70-75 cm of sediment.

# 603

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

Ship: CHAIN  Core No. 24 PC

Expedition 119  Station No. 118

Leg No. 2  Total Core Length 711 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc clay | 1 | | | | 89 | tr | 9 | tr | | 1 | | | | tr |
| 47 | calc clay | tr | | | | 90 | tr | 7 | tr | | 3 | | | | |
| 124 | calc ooze/ detritus | 40 | tr | | | 2 | 8 | 1 | 3 | tr | 43 | 1 | tr | tr | 2 |
| 160 | calc ooze | tr | | | | 52 | 1 | 44 | 2 | | 1 | | | | |
| 185 | highly calc clay | tr | tr | | | 78 | tr | 10 | tr | tr | 9 | | | tr | 3 |
| 230 | highly calc clay | tr | | | | 71 | 1 | 15 | tr | | 5 | | | | 8 |
| 322 | volcanic ash | 1 | | | 93 | 2 | | tr | | | 4 | | | | |
| 360 | calc ooze | tr | tr | | | 47 | 1 | 48 | 1 | | 3 | | | | |
| 430 | calc ooze | 1 | tr | | | 66 | 1 | 26 | 2 | tr | 3 | | | | 1 |
| 495 | calc ooze/ detritus | 40 | tr | | | 2 | 2 | tr | 7 | | 45 | | | | 4 |
| 553 | calc ooze | 1 | tr | | | 45 | 2 | 38 | 2 | tr | 12 | | | | tr |
| 620 | calc clay | tr | | | | 94 | tr | 4 | | | 2 | | | | |
| 663 | calc ooze/ detritus | 40 | 1 | | tr | 3 | 7 | 1 | 8 | tr | 36 | | | | 4 |
| 710 | calc clay | 1 | tr | | | 90 | tr | 4 | | | 5 | | | | |

# 604

VISUAL CORE DESCRIPTION



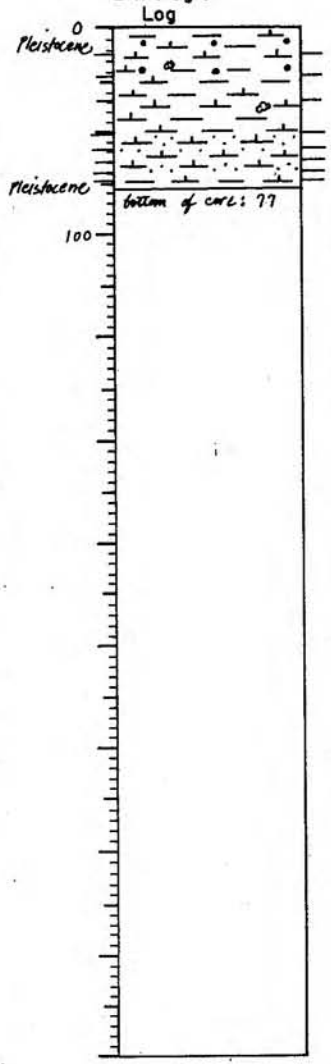
Ship CHAIN Cruise 119 Leg 2 Sta. 118 Core No. 24 PG

Total Length 77 cm. Lat. 33° 51.6'N Long. 31°52.4'E Depth 2636 corr m.

Core condition EXCELLENT Date Described 31 Jan 76 by T FARMER

Physiographic location ABYSSAL HILLS DUE W. of ERATOSTHENES SEAMOUNT, E.M.S.

Lithologic Log




Detailed Description

0-12
CALC CLAY
10 YR 4/3 brown, grades to 4/2 dark grayish brown
1-5 cm, microlaminated with dark yellow brown (Mn-rich); 10 cm, narrow lamination of pale brown similar to top of next unit
smooth, slick, unconsolidated lutite
S

12-22
CALC OOZE (1 cm) OVERLIES CALC CLAY
10 YR 6/3 pale brown overlies 10 YR 4/3 brown
minor, pale brown mottling in brown; 15-22 cm, microlaminated with dark yellow brown (Mn-rich)
silty lutite, with common bioclastic material (pale brown) overlies smooth, slick, unconsolidated lutite
G

22-34.5
CALC CLAY
10 YR 4/2 dark grayish brown
no mottling
smooth, slick, unconsolidated lutite
S

34.5-51
CALC OOZE OVERLIES CALC CLAY
10 YR 6/3 pale brown (1 cm) overlies 5 Y 4/3 olive
pale brown mottles are scattered into top of olive
silty lutite with forams and pteropods common (pale brown), followed by smooth, slick, unconsolidated lutite
S

51-59
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
a couple dark gray mottles
silt
S

59-65
CALC OOZE/DETRITUS OVERLIES CALC OOZE
10 YR 6/3 pale brown overlies 2.5 Y 4/4 olive brown
very minor, pale mottling at top
biogenous silt overlies smooth, slick lutite
S

65-69
CALC OOZE/DETRITUS
10 YR 4/2 dark grayish brown
no mottling
silt
S, but very disturbed

605

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship CHAIN Cruise 119 Leg II Sta. 118 Core No. 24 PG

Lithologic Log

Detailed Description

69-73
HIGHLY CALC CLAY
5 Y 4/3 olive
homogeneous throughout
smooth, slick lutite
S
73- 77
CALC CLAY
10 YR 4/2 dark grayish brown
homogeneous throughout
smooth, slick lutite
end of core

606

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

Ship: CHAIN Core No. 24 PG

Expedition 119 Station No. 118

Leg No. 2 Total Core Length 77 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc clay | tr | 2 | | | 90 | | 7 | | | 1 | | | | |
| 13 | calc ooze | 1 | 1 | | | 28 | 5 | 60 | 1 | | 4 | | | | |
| 20.3 | calc clay w/Mn micronodules | 1 | 16 | | | 77 | tr | 5 | | | 1 | | | | |
| 57 | calc ooze/ detritus | 33 | 1 | | 3 | 10 | 2 | 5 | 2 | | 42 | | | | 2 |
| 63 | calc ooze | tr | 1 | | | 68 | tr | 22 | tr | tr | 9 | | | | |
| 76 | calc clay | 1 | | | | 85 | tr | 12 | tr | tr | 2 | | | | |

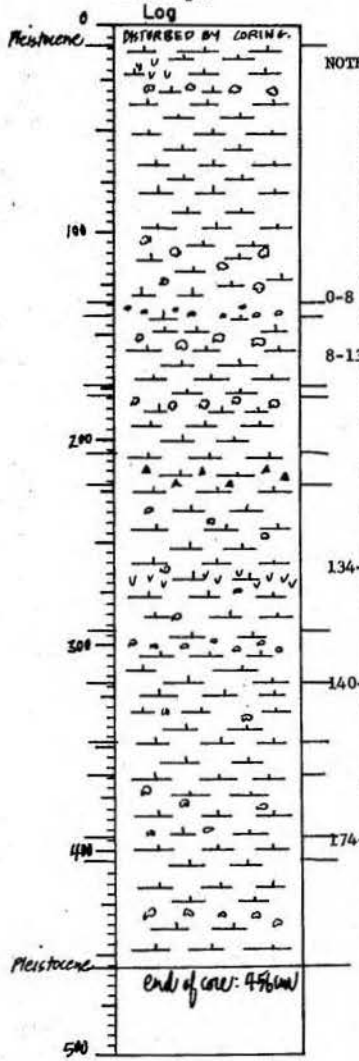
# 607

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 120 Core No. 25PC
Total Length 456 cm. Lat. 33° 56.24'N Long. 32° 44.44'E Depth 1827 m corr.
Core condition EXCELLENT Date Described 27 Jan 71 by J. Burke
Physiographic location NORTH FLANK OF ERATOSTHENES SEAMOUNT, EASTERN MED.

Lithologic Log




### Detailed Description

NOTE: Remarkably, the top 8 cm of the piston core are a compressed representation of the whole 97 cm of the sediment in the pilot core. Every lithologic feature is preserved in a miniaturized, although sometimes disturbed, fashion. This phenomenon no doubt occurred as a result of poor coordination of piston movement with penetration. In this case the movement was delayed and the piston was immobile as the cutter and lower barrel passed through the upper meter of the sediment. The upper 8 cm, as mentioned above, probably squeezed into the empty core cutter slowly and irregularly as the sediment displaced the water trapped within.

0-8
FOR DETAILS OF THIS ZONE AFFLICTED WITH CORING DISTURBANCE SEE PILOT CORE DESCRIPTION

8-134
CALC OOZE
10 YR 6/4 light yellowish brown
several zones of common, pale and very pale brown mottling 28-32 cm, 100-132 cm; also grayish brown, shadowy zone 65-89 cm
very slightly silty lutite with a few forams and pteropod fragments scattered
an interesting cast pteropod test replaced with magnesium calcite found at 103 cm
S, horizontal

134-140
CALC OOZE - 5 Y 3/2 dark olive gray
innumerable, tiny, light gray mottles and flecks throughout sapropel
firmer, a bit more compact lutite with scattered forams
S, horizontal

140-174
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 6/2 light brownish gray, to 5 Y 6/4 pale olive
common intermottling in transitional zone, 148-158 cm
moist, smooth lutite with scattered forams and black flecks
S, horizontal

174-178
CALC OOZE
5 Y 3/2 dark olive gray
one faint, 2 mm, olive lamination near unit basal contact
firm lutite with a few pteropods associated with lamination
sapropel zone
S, horizontal

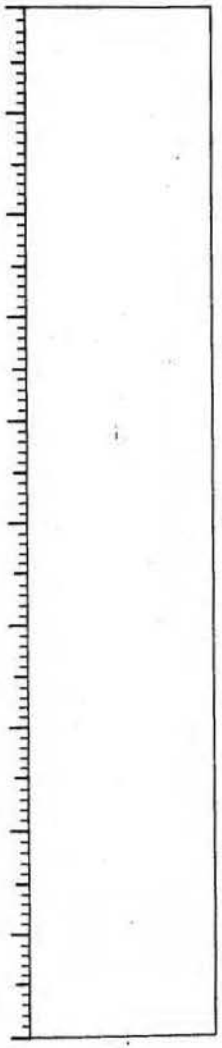
# 608

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 120 Core No. 25 PC

Lithologic Log



### Detailed Description

178-206
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 6/2 light brownish gray
common intermottling in transitional zone, 184-188 cm
slightly silty lutite with scattered forams, pteropod fragments, and white, lithified, calcareous lumps
S, horizontal

206-222
CALC OOZE WITH PYRITE
5 Y 3/2 dark olive gray
fine, light gray laminations and flecks 206-212 cm; two 1 mm laminations at 221.5 cm
somewhat coarse, mulchy lutite with abundant forams and scattered pteropods
sapropel zone
S, horizontal

222-293
CALC OOZE WITH A ZONE OF CALC OOZE/ASH
5 Y 7/2 light gray, grades to 7/3 pale yellow
a few faint, light gray mottles and burrows scattered throughout
firm, becoming more compact, slightly silty lutite with scattered, white, lithified calc lumps and an ash stiff zone, 267-274 cm
S, mottled

293-318
CALC OOZE
2.5 Y 4/2 dark grayish brown, grades to 5 Y 3/2 dark olive gray
extensive, grayish brown and olive brown mottling 293-307 cm; finely laminated thereafter
somewhat coarse, mulchy lutite with abundant forams and pteropod fragments
sapropel zone
S, horizontal

318-348
CALC OOZE
5 Y 6/2 light olive gray, grades to 2.5 Y 6/2 light brownish gray
slight intermottling in transition zone
slightly silty lutite with scattered forams
S, irregular

348-364
CALC OOZE
5 Y 3/2 dark olive gray
fine, tiny, light gray flecks and mottles
slightly coarse, mulchy lutite with abundant forams and scattered pteropods
sapropel zone
S

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 120 Core No. 25 PC

Lithologic Log

Detailed Description

364-394
CALC OOZE
5 Y 5/2 olive gray, grades to 2.5 Y 6/2 light grayish brown
small, common intermottling of above colors throughout
firm, silty lutite with scattered forams throughout, and a zone of foram/pteropod sand 377-380 cm
S

394-405
CALC OOZE
5 Y 3/2 dark olive gray
a few, large, olive gray mottles 397-400 cm
slightly coarse, mulchy lutite with abundant forams
S, horizontal

405-456
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 6/4 light yellowish brown
common intermottling in transitional zone
firm, slightly silty lutite with scattered forams
end of core
NOTE: the cyclic nature of the above combinations of lithologies should not be overlooked



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

Ship: CHAIN Core No. 25 PC

Expedition 119 Station No. 120

Leg No. 2 Total Core Length 456 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 3 | 2 | | | 25 | 6 | 55 | 2 | tr | 7 | | | | |
| 70 | calc ooze | 5 | 2 | | | 45 | 3 | 35 | | | 6 | | | | 4 |
| 137 | calc ooze | 2 | tr | | | 50 | 5 | 36 | | | 5 | | | | 8 |
| 200 | calc ooze | 3 | | | | 54 | 3 | 25 | | | 15 | | | | tr |
| 215 | calc ooze with pyrite | 2 | tr | | | 37 | 12 | 30 | | | 4 | | | | 15 |
| 260 | calc ooze | 1 | | | | 25 | 4 | 65 | | | 5 | | | | tr |
| 274 | calc ooze/ash | 4 | tr | | 30 | 22 | 1 | 40 | tr | | 3 | | | | |
| 355 | calc ooze | 2 | | | | 40 | 5 | 40 | tr | | 3 | | | | 10 |
| 400 | calc ooze | 3 | | | | 44 | 4 | 40 | | | 2 | | | | 7 |
| 455 | calc ooze | 2 | tr | | | 31 | 6 | 55 | tr | | 6 | | | | |

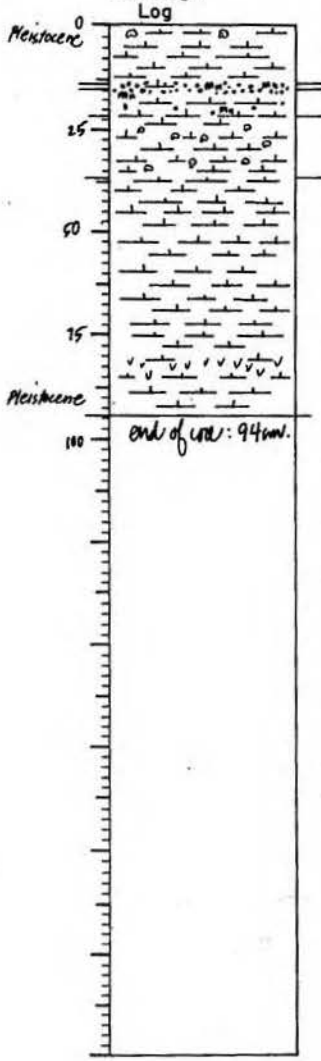
611

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 120 Core No. 25 PG
Total Length 94 cm. Lat. 33° 56.24'N Long. 32°44.46'E Depth 1827 m. corr.
Core condition EXCELLENT Date Described 28 Jan 76 by J. Broda
Physiographic location NORTH FLANK OF ERATOSTHENES SEAMOUNT, EASTERN MED.

Lithologic Log




### Detailed Description

0-13
CALC OOZE
10 YR 6/4 light yellowish brown
slight yellowish-brown mottling 0-5 cm
unconsolidated, slightly silty lutite with scattered forams
S, irregular

13-14.5
Mn MICRONODULES
10 YR 2.5/1 black
homogeneous throughout (slight mixing at upper unit contact)
slick and silty lutite combined
S

14.5-21
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
innumerable, fine, dark brown microlaminae throughout
smooth lutite with just a few forams
S, horizontal

21-36
CALC OOZE
5 Y 3/2 dark olive gray
intense, tiny, white and light gray mottles and flecks throughout sapropel zone
moist, slick lutite with scattered forams
S

36-94
CALC OOZE WITH BED OF CALC OOZE/ASH
10 YR 6/2 light brownish gray, grades to 6/4 light yellowish brown
homogeneous throughout
slightly silty lutite with scattered forams
somewhat graded ash bed 80-83 cm
end of core

612

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

Ship: CHAIN Core No. 25 PG
Expedition 119 Station No. 130
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 | PYRITE |
| 1 | calc ooze | 2 | 3 | | | 23 | 7 | 58 | tr | | 7 | | | | |
| 14 | Mn micronodules | | 80 | | | 6 | 3 | 10 | | | 1 | | | | |
| 18 | calc ooze with Mn micronodules | 2 | 15 | | | 36 | 3 | 40 | | | 4 | | | | |
| 26 | calc ooze | 2 | | | | 23 | 7 | 50 | | | 8 | | | | 10 |
| 40 | calc ooze | 2 | | | | 36 | 4 | 50 | 2 | | 6 | | | | |
| 82 | calc ooze/ash | 2 | | | 45 | 17 | 6 | 25 | tr | | 5 | | | | |
| 93 | calc ooze | 1 | | | | 36 | 4 | 55 | tr | | 4 | | | | |

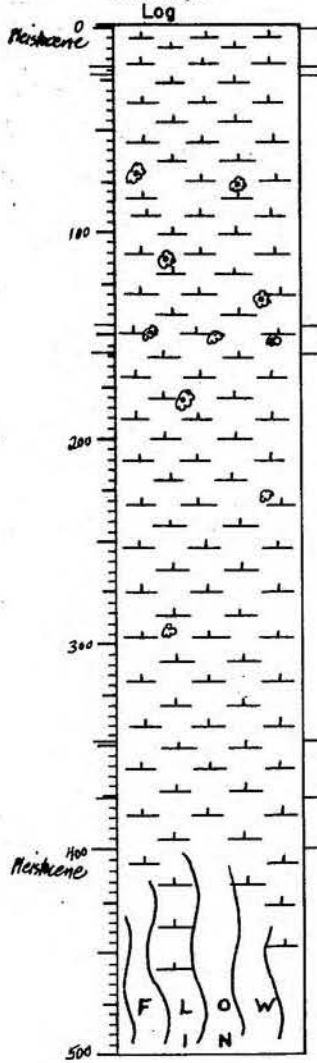
# 613

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 121 Core No. 26 PC
Total Length 506 cm. Lat. 33° 44.3' N Long. 32° 46.5' E Depth 898 corr m.
Core condition EXCELLENT Date Described 28 Jan 76 by T FARMER
Physiographic location ERATOSTHENES SEAMOUNT south of CYPRUS, EMS.

Lithologic Log




### Detailed Description

Note: whole core has disturbed appearance indicated by contorted and sheared laminae

0-1
CALC OOZE
10 YR 5/3 brown
homogeneous throughout
very silty lutite, forams are common
S, but disturbed

1-18
CALC OOZE
10 YR 6/4 light yellowish brown
laminated in various hues of above color
very silty lutite, forams are generally common, with occasional clustering; small, lithified lump near bottom
S, but disturbed

18-22
CALC OOZE
10 YR 6/3 pale brown
no mottling
very, very silty lutite; becomes foram sand from 20-21 cm
S

22-145
CALC OOZE
10 YR 7/3 very pale brown, 6/4 light yellow brown
contorted laminations (~0.5-4 cm) in varying hues of above colors appear throughout; occasional laminations of 6/6 brownish yellow appear in lower portions: small, scattered, black mottles (Mn-rich) are present from 68-79 cm and 105-145 cm
generally a very silty lutite, with forams and pteropods common; however, larger laminations of very abundant forams appear 36-48, 58-68, and 93-100
2 cm cylindrical piece of coral (?) recovered at 92 cm
S, but heavily mottled

145-158
CALC OOZE
10 YR 7/4 very pale brown
heavily mottled with above unit; small, black mottles (Mn-rich) are also scattered throughout
very silty, compacted, plastic-like lutite; forams are scattered
S, but mottled

158-348
CALC OOZE
10 YR 6/4 light yellowish brown, and 6/3 pale brown; 7/4 and 7/3 very pale browns become more prominent with depth

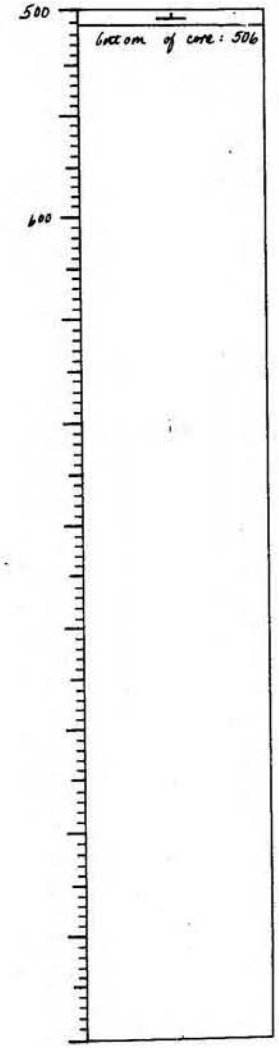
# 614

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 121 Core No. 26 PC

Lithologic Log




### Detailed Description

158-348 (cont.)
normal and contorted laminations, and scattered intermottling of above colors appear throughout; small, dark gray to black mottles (Mn-rich) are scattered in upper 70 cm
stiff lutite, varies from silty to very silty as forams ( and few pteropods) range from scattered to abundant
S, but severely disturbed

348-376
CALC OOZE
2.5 Y 7/4 pale yellow, grades to 6/6 olive yellow
no mottling
very firm, very silty lutite; forams are common
S

376-400
CALC OOZE
5 Y 5/3 olive
several subdued, yellowish laminae from above interbedded with upper portions of this unit
very firm, very silty lutite; forams are scattered to abundant

400-506
flow in of above unit
end of core

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

Ship: CHAIN  Core No. 26 PC

Expedition 119  Station No. 121

Leg No. 2  Total Core Length 506 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 1 | tr | | | 50 | 1 | 44 | tr | | 4 | | | | |
| 22 | calc ooze | 1 | tr | | | 65 | 5 | 24 | 1 | | 4 | | | | |
| 83 | calc ooze | tr | | | | 68 | 3 | 28 | tr | | 1 | | | | tr |
| 155 | calc ooze | tr | tr | | | 25 | 2 | 70 | tr | | 3 | | | | |
| 173 | calc ooze w/ Mn micronodules | tr | 15 | | tr | 40 | tr | 44 | tr | tr | 1 | | | | |
| 215 | calc ooze | tr | tr | | tr | 66 | 4 | 28 | | tr | 2 | | | | |
| 308 | calc ooze | tr | | | | 54 | 5 | 38 | 1 | tr | 2 | | | | |
| 373 | calc ooze | tr | tr | | | 68 | 3 | 26 | tr | tr | 3 | | | | |
| 505 | calc ooze | tr | | | | 46 | 1 | 50 | | | 3 | | | | |



VISUAL CORE DESCRIPTION



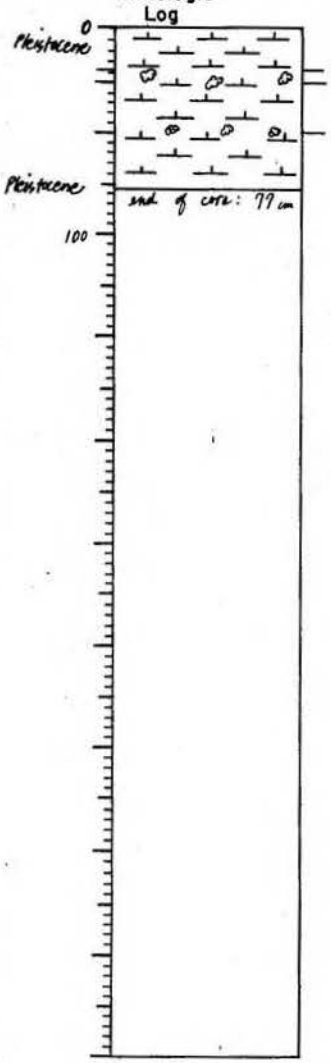
Ship CHAIN Cruise 119 Leg 2 Sta. 121 Core No. 26 PG

Total Length 77 cm. Lat. 33° 44.3' N Long. 32° 46.5' E Depth 898 corr m.

Core condition EXCELLENT Date Described 28 Jan 76 by I FARMER

Physiographic location ERATOSTHENES SEAMOUNT south of CYPRUS, E.M.S.

Lithologic Log




Detailed Description

0-19
CALC OOZE
10 YR 6/3 pale brown
slight, pale mottling in upper portion, and darker mottling near lower unit
silty lutite with scattered forams
very G

19-25
CALC OOZE
10 YR 4/4 dark yellowish brown
innumerable, small, pale mottles
silty lutite, forams are common
G

25-50
CALC OOZE
10 YR 6/3 pale brown
47-50 cm extremely intense, grayish brown (10 YR 5/2) mottling; some subtle marbling of paler hues indicates disturbed area in this unit
silty lutite, forams are common
S

50-77
CALC OOZE
10 YR 7/3 very pale brown, grades to 6/3 pale brown
scattered intermottling of pale browns
very silty, plastic-like lutite, becomes somewhat less silty with depth
end of core

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

Ship: CHAIN  Core No. 26 PG

Expedition 119  Station No. 121

Leg No. 2  Total Core Length 77 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | tr | | | 45 | 3 | 45 | 4 | | 6 | | | |
| 24 | calc ooze | tr | 3 | | | 48 | 1 | 42 | 2 | tr | 4 | | | |
| 36 | calc ooze | 2 | tr | | | 45 | 3 | 40 | 1 | | 9 | | | |
| 75 | calc ooze | 1 | tr | | | 42 | 3 | 48 | | tr | 6 | | | |



VISUAL CORE DESCRIPTION



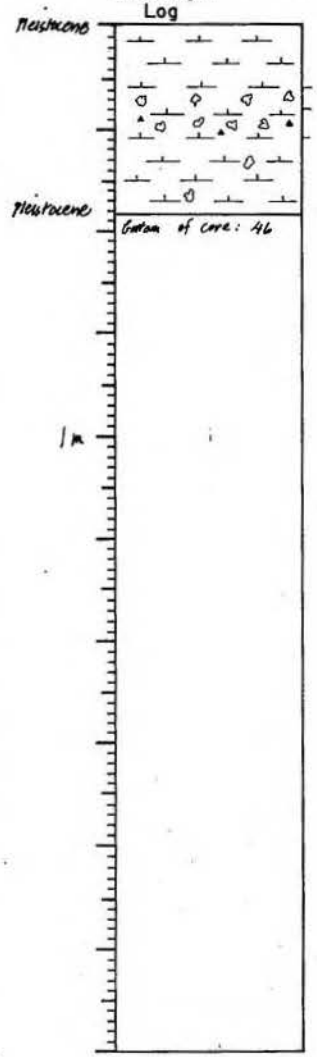
Ship CHAIN Cruise 119 Leg 2 Sta. 122 Core No. 6 GC

Total Length 46 cm. Lat. 33° 45.7' N Long. 32° 48.0' E Depth 894 corr. m.

Core condition excellent Date Described 19 Sept '75 by H. FARMER

Physiographic location ERATOSTHENES SEAMOUNT - EASTERN MED. SEA

Lithologic Log




Detailed Description

0-14
NANNO OOZE
10 YR 5/6 yellow brown
no mottling
slightly silty lutite with scattered forams
mottled contact from 12-14

14-20
CALC OOZE
10 YR 4/4 dark yellow brown; 18-20 primarily yellow brown
small, abundant mottling with upper unit
slightly silty lutite with scattered forams
S

20-27
CALC OOZE
10 YR 3/3 dark brown
small, abundant light brown mottling
lutite with few forams
G

27-46
CALC OOZE
grades from 10 YR 5/3 brown to 10 YR 6/3 pale brown
few, small pale brown and dark brown mottles
slightly silty lutite with few forams
medium subdued patches
end of core

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

Ship: CHN  Core No. 6 GC

Expedition 119  Station No. 122

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 | PYRITE |
| 1 | nanno ooze | 2 | tr | | | 10 | 2 | 78 | tr | | 8 | | | | |
| 17 | calc ooze | 2 | | | | 42 | 2 | 50 | | tr | 4 | | | | |
| 22 | calc ooze | 2 | tr | | | 44 | 3 | 45 | tr | | 4 | | | | 2 |
| 45 | calc ooze | 2 | tr | | | 39 | 2 | 50 | | | 7 | | | | tr |



VISUAL CORE DESCRIPTION  Page 1 of 1

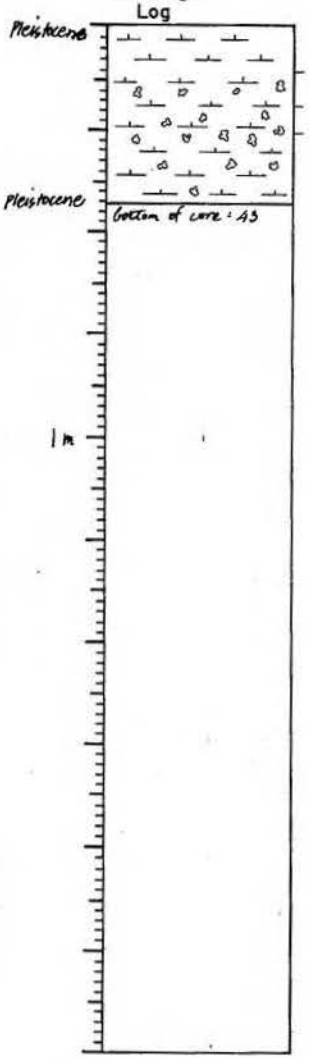
Ship CHAIN  Cruise 119  Leg 2  Sta. 127  Core No. 7 GC

Total Length 43 cm.  Lat. 33° 40.7' N  Long. 32° 40.9' E  Depth 882 corrcm.

Core condition excellent  Date Described 18 Sept '75 by H. FARMER

Physiographic location ERATOSTHENES SEAMOUNT - EASTERN MEDITERRANEAN SEA

Lithologic Log




Detailed Description

0-11
NANNO OOZE
10 YR 5/6 yellowish brown
few, very subdued mottles
lutite with scattered forams, common from 8-12 cm
severely burrowed contact from 8-12 cm

11-19
CALC OOZE
10 YR 4/4 dark yellow brown; 17-19 primarily yellow brown
small, common mottles of above color
lutite, forams very abundant 12-13, scattered 18-19
fine laminations in yellow browns
S

19-26
CALC OOZE
10 YR 3/3 dark brown
small, abundant (brown) mottles
smooth lutite with few forams
G, irregular

26-43
CALC OOZE
10 YR 5/3 brown, getting somewhat paler at bottom
small, abundant mottling at top, grading to few at bottom
slightly silty lutite, few forams
end of core

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

Ship: CHN  Core No. 7 GC

Expedition 119  Station No. 127

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 | PYRITE |
| 1 | nanno ooze | 2 | tr | | | 11 | 1 | 80 | 1 | | 5 | | | | |
| 11 | calc ooze | 2 | 5 | | | 25 | 1 | 62 | tr | | 5 | | | | |
| 23 | calc ooze | 2 | | | | 44 | 3 | 44 | 1 | | 4 | | | | 2 |
| 42 | calc ooze | 2 | | | | 45 | 1 | 49 | | | 3 | | | | |



VISUAL CORE DESCRIPTION



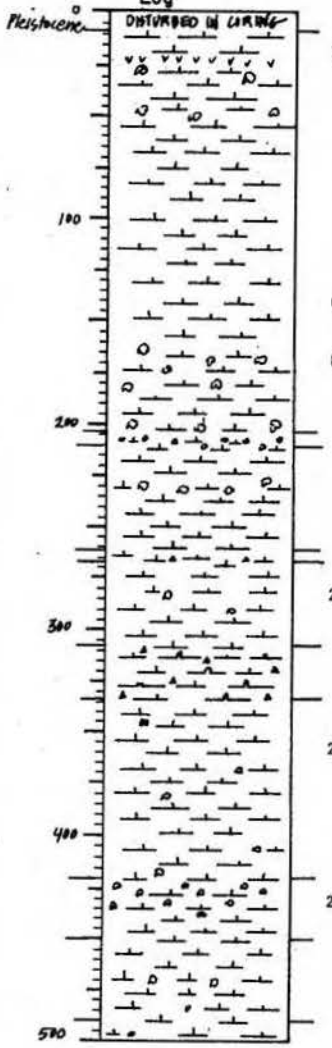
Ship CHAIN Cruise 119 Leg II Sta. 129 Core No. 27 PC

Total Length 690 cm. Lat. 33°21.5'N Long. 33°16.0'E Depth 1829 m-corr.

Core condition EXCELLENT Date Described 1 FEB 76 by J. Broda

Physiographic location LEVANT PLATFORM; SE OF ERATOSTHENES SEAMOUNT, EASTERN MED.

Lithologic Log




Detailed Description

Note: As in core 25 PC the top 7-8 cm of this piston core appear to be a compressed representation of the whole 76 cm of the sediment in the pilot core. Every lithologic feature is preserved in a miniaturized, although sometimes disturbed, fashion. This phenomenon no doubt occurred as a result of poor coordination of piston movement with penetration. In this case the movement was delayed and the piston was immobile as the cutter and lower barrel passed through the upper meter of the sediment. The upper 8 cm, as mentioned above, probable squeezed into the empty core cutter slowly and irregularly as the sediment displaced the water trapped within.

0-8
DISTURBED IN CORING - SEE PILOT CORE DESCRIPTION FOR DETAILS

8-204
CALC OOZE
10 YR 6/4 light yellow brown, grades to 6/3 pale brown, to 2.5 Y 7/4 pale yellow
several zones of common, pale brown and very pale brown mottling 20-30 cm, 44-50 cm, 160-180 cm, 194-204 cm; also grayish brown Mn-rich shadowing 104-115 cm, 134-140 cm
very slightly silty lutite with forams and white (largish) pteropods scattered throughout
an irregular ash zone appears 20.5-22 cm
S

204-210
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, tiny, light gray mottles and flecks throughout
firm, a bit more compact lutite with scattered forams
sapropel zone
S, horizontal

210-261
CALC OOZE
2.5 Y 5/2 grayish brown grades to 6/2 light brownish gray
common intermottling in transitional zone 226-237 cm
moist, smooth lutite with scattered forams and a few white flecks and pteropods
S

261-267
CALC OOZE
5 Y 3/2 dark olive gray
fine white flecks and microlaminations (poorly defined)
firm, compact lutite with scattered pteropod fragments
sapropel zone
S

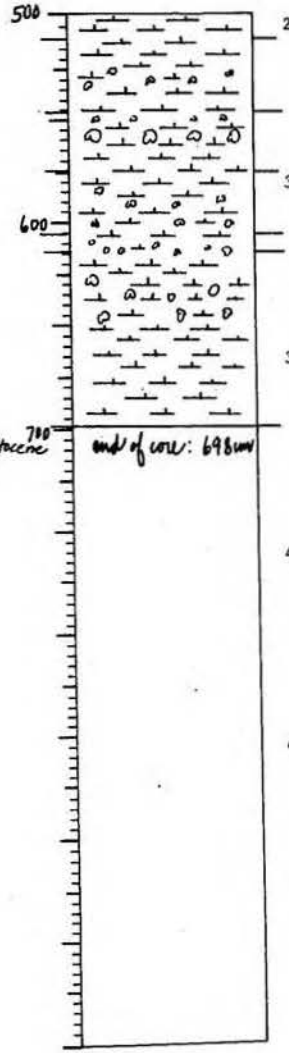
623

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 129 Core No. 27PC

Lithologic Log




Detailed Description

267-307
CALC OOZE
2.5 Y 5/2 grayish brown, grades to 6/2 light brownish gray
very slight intermottling in transitional zone
slightly silty lutite with scattered forams, pteropod fragments and white lithified calc lumps
S, horizontal

307-334
CALC SILIC OOZE WITH PYRITE
5 Y 3/2 dark olive gray
fine, light olive gray laminations and flecks 307-313; darker ones throughout unit
somewhat mulchy lutite with abundant forams and scattered pteropods
sapropel zone
G, horizontal

334-420
CALC OOZE
5 Y 7/2 light gray, grades to 7/3 pale yellow, to 6/2 light olive gray
a few faint, light gray mottles and burrows scattered throughout
firm lutite, stiffens with depth, and silty (ash) component becomes more intense 388-396 cm; scattered white calcareous lumps and forams are found throughout
S, mottled

420-480
CALC OOZE
2.5 Y 4/2 dark grayish brown, grades to 5 Y 3/2 dark olive gray
extensive grayish brown and olive brown mottling 420-435 cm; finely laminated thereafter
somewhat stiff, mulchy lutite with abundant forams and pteropod fragments
sapropel zone
very sharp horizontal

480-490
CALC OOZE
5 Y 6/2 light olive gray, grades to 2.5 Y 6/2 light brownish gray
very slight intermottling in transition zone
slightly silty lutite with scattered forams
tiny, brittle, 1 cm long, pyritized worm burrows scattered throughout
S, irregular

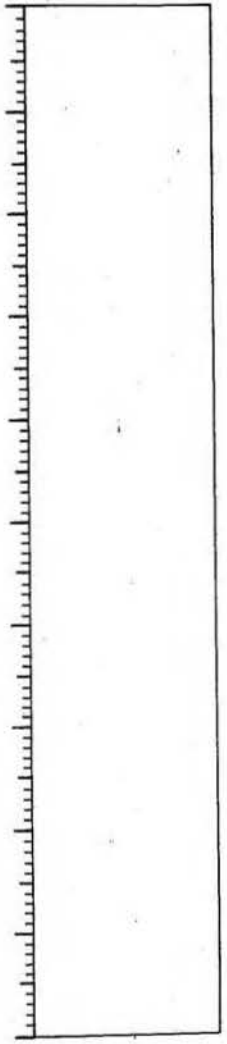
624

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 129 Core No. 27 PC

Lithologic Log



Detailed Description

490-510
CALC OOZE
5 Y 3/2 dark olive gray
a few fine, gray flecks and mottles
slightly coarse, mulchy lutite with abundant forams
sapropel zone
S

510-546
CALC OOZE
5 Y 5/2 olive gray, grades to 2.5 Y 6/2 light grayish brown
common, fine intermottling of the colors above in transitional zone
firm, silty lutite with scattered forams; grades to firmer lutite with abundant forams
S, horizontal

546-574
CALC OOZE
5 Y 3/2 dark olive gray
extensive, tiny, grayish-brown mottles 546-548 cm; large, gray mottles 548-560; finely laminated (olive gray) 560-574 cm
sapropel zone
S, horizontal

574-605
CALC OOZE
5 Y 5/2 olive gray, grades to 2.5 Y 6/2 light grayish brown
common intermottling (well-defined) of the colors above throughout
firm, silty lutite with scattered forams; becomes more compact, with abundant forams

605-614
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, fine, light olive gray burrows and mottles
mulchy, firm, foram-rich lutite
S, horizontal

614-698
CALC OOZE
5 Y 5/2 olive gray, grades to 2.5 Y 6/2 light grayish brown
common intermottling of the colors above 620-650 cm
firm, slightly silty lutite with scattered forams and a few pteropods
Note: the cyclic nature of the above combinations of lithologies should not be overlooked
end of core

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

Ship: CHAIN  Core No. 27 PC

Expedition 119  Station No. 129

Leg No. 2  Total Core Length 698 cm

| SILICO FLAGS | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | calc ooze | 3 | 2 | | tr | 27 | 7 | 50 | 3 | | 8 | | | tr | |
| | 20 | volcanic ash | tr | tr | | 60 | 14 | tr | 20 | | | 6 | | | | |
| | 120 | calc ooze | 2 | | | | 45 | 5 | 40 | tr | | 8 | | | | |
| | 205 | calc ooze | 2 | 1 | | | 52 | 4 | 30 | | tr | 3 | | | | 8 |
| | 300 | calc ooze | 1 | tr | | | 37 | 4 | 45 | 1 | | 12 | | | | |
| 1 | 315 | calc silic ooze with pyrite | 2 | tr | | | 24 | 8 | 35 | | | 6 | 2 | 1 | 3 | 18 |
| | 415 | calc ooze | 1 | | | | 22 | 9 | 65 | | | 3 | | | | |
| | 500 | calc ooze | 2 | tr | | | 44 | 4 | 35 | | | 3 | | | | 12 |
| | 600 | calc ooze | 2 | | | | 35 | 2 | 50 | tr | | 10 | | | | 1 |
| | 610 | calc ooze | 2 | | | | 33 | 3 | 45 | | | 9 | | | | 8 |
| | 697 | calc ooze | 3 | tr | | | 29 | 4 | 55 | 1 | | 7 | | | | 1 |



VISUAL CORE DESCRIPTION  Page 1 of 1

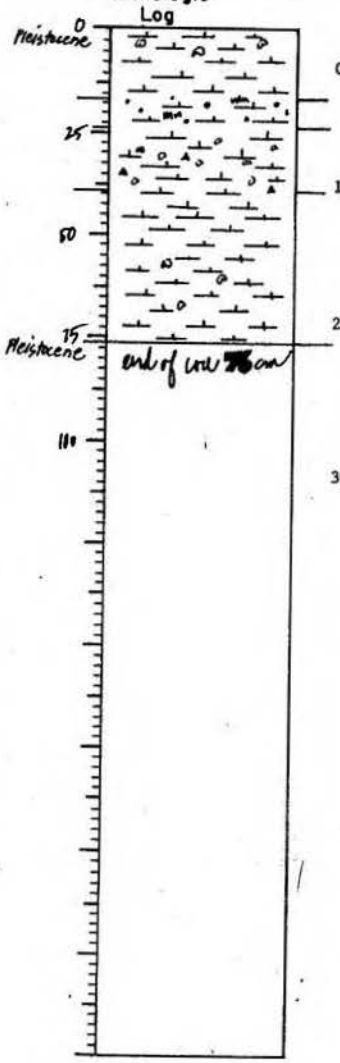
Ship CHAIN  Cruise 119  Leg II  Sta. 129  Core No. 27PC

Total Length 76 cm.  Lat. 33° 21.5'N  Long. 37° 16.0'E  Depth 1829 m corr.

Core condition EXCELLENT  Date Described 2 Feb 76  by [illegible]

Physiographic location LEVANT PLATFORM, S.E. OF ERATOSTHENES SEAMOUNT, EASTERN MED

Lithologic Log




Detailed Description

0-16
CALC OOZE
10 YR 6/4 light yellowish brown
common, pale brown mottling 0-8 cm
moist, slightly silty lutite with scattered forams
G, mottled

16-24
CALC OOZE WITH Mn MICRONODULES
10 YR 4/4 dark yellowish brown
a multitude of fine, dark brown microlaminae throughout
moist, slick lutite with a few scattered pteropod fragments
S

24-39
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, tiny, white and pale brown mottles and flecks
moist, slick lutite with scattered forams and pteropod tests
G

39-76
CALC OOZE
10 YR 6/2 light brownish gray, grades to 6/4 light yellowish brown
slight intermottling throughout, with black flecks found scattered throughout
slightly silty lutite with scattered forams and a few pteropod tests
2 cm x 2 cm, porous chunk of coral/limestone 63-65 cm
end of core

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

Ship: CHAIN  Core No. 27 PG

Expedition 119  Station No. 129

Leg No. 2  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 | PYRITE |
| 1 | calc ooze | 2 | 3 | | | 22 | 8 | 60 | tr | | 5 | | | | |
| 20 | calc ooze w/Mn micronodules | 2 | 18 | | | 18 | 4 | 55 | | | 3 | | | | |
| 30 | calc ooze | 2 | | | | 23 | 7 | 50 | tr | | 8 | | | | 10 |
| 65 | calc ooze/others (limestone) | | | | | | | | | | 100 | | | | |
| 75 | calc ooze | 1 | tr | | | 31 | 5 | 60 | | | 3 | | | | tr |



VISUAL CORE DESCRIPTION

Page 1 of 2

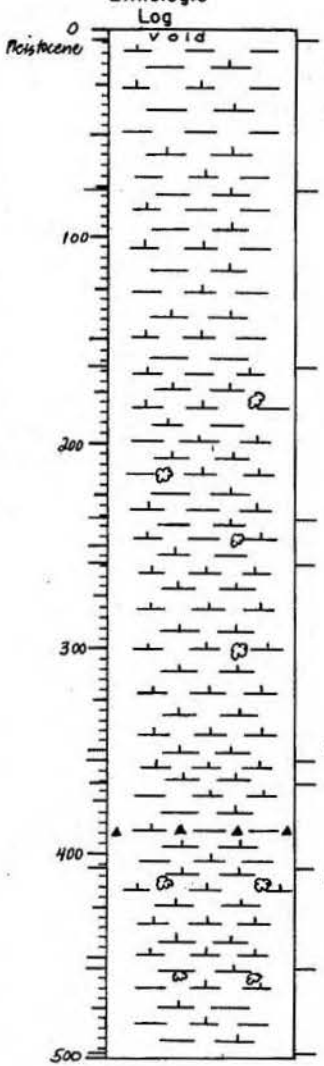
Ship CHAIN Cruise 119 Leg 2 Sta. 131 Core No. 28 PC

Total Length 700 cm. Lat. 33° 58.8' N Long. 33° 37.2' E Depth 2220 corr. m.

Core condition EXCELLENT Date Described 4 Feb 76 by T. FARMER

Physiographic location CENTRAL CYPRUS BASIN, E. of ERATOSTHENES SEAMOUNT, E.M.S.

Lithologic Log




Detailed Description

0-4
VOID

4-76
CALC CLAY AND HIGHLY CALC CLAY
10 YR 4/3 brown, 4/2 dark grayish brown, with lesser amounts of 5 Y 4/2 olive gray and 10 YR 6/3 pale brown in the lower half of the unit; above colors appear in varying hues in sharply contacted macro-laminations
very little mottling; very fine, dark brown laminations are present from 10-12 cm
smooth, very slick, unconsolidated lutite, except the thin, pale brown laminations which are slightly silty lutites with scattered forams and pteropods
S

76-163
CALC CLAY
5 Y 4/2 varying hues of olive gray, somewhat darker from 122-141 cm
homogeneous, except 5 mm bed of sapropelic, slightly silty lutite (5 Y 3/2 dark olive gray) at 86.5 cm
smooth, very slick, unconsolidated lutite
S

163-236
HIGHLY CALC CLAY, CALC OOZE, AND MINOR AMOUNTS OF CALC CLAY
10 YR 6/3 pale brown, 2.5 Y 4/4 olive brown, 10 YR 5/3 brown, and 2.5 Y 3/2 dark grayish brown: these colors appear as macrolaminations in a somewhat cyclic sequence as listed above
some intermottling is scattered throughout
the browns and pale browns tend to be slightly silty lutites with scattered forams, while the other laminations are smooth, slick lutites
S

236-258
HIGHLY CALC CLAY
5 Y 5/2 olive gray, grades to 2.5 Y 4/4 olive brown
scattered, dark olive gray mottles from above
slightly silty lutite with forams common; grades to smooth, sticky lutite
S

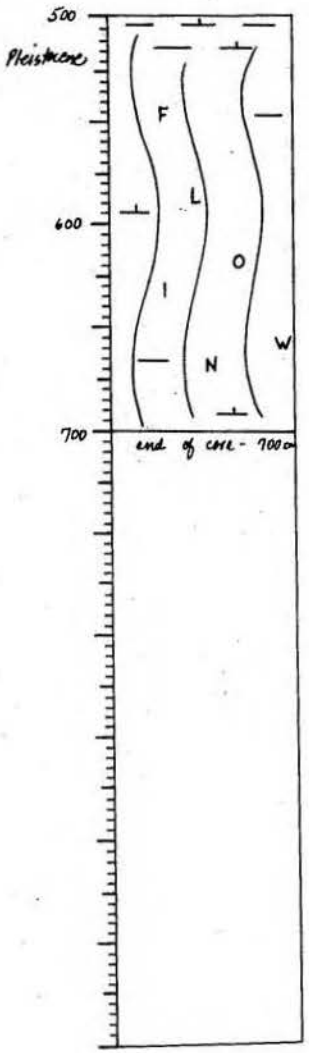
258-355
CALC OOZE
10 YR 5/3 brown and 6/3 pale brown; varying hues of above colors appear as gradational macrolaminations
scattered intermottling
slightly silty lutite with scattered forams
S

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 131 Core No. 28 PC

Lithologic Log




### Detailed Description

355-366
CALC OOZE
5 Y 3/2 dark olive gray
very fine, subdued microlaminations
slightly silty, humus-like, sapropelic lutite; forams are common and pteropods abundant
S

366-407
HIGHLY CALC CLAY
5 Y 4/2 olive gray
homogeneous, except few small mottles near top
firm, slightly silty lutite
390.5 cm: 1 mm lithified lamination of calc ooze/pyrite with detritus, 5 Y 3/2 dark olive gray
S

407-455
CALC OOZE
5 Y 4/2 and 5/2 olive grays, grades to 5/3 olive; colors appear as macrolaminations
intermottling is common in top 20 cm
generally a slightly silty lutite, occasional laminations are less silty
436-440 cm, shell hash (calc ooze with detritus)
S

455-498
CALC CLAY
5 Y 3/2 varying hues of dark olive gray, and 4/2 olive gray, 490-493 cm
very small, pale mottles are common in top 13 cm
smooth, compact, sticky lutite, except two thin (5 mm) beds of silty, humus-like, sapropelic lutite with common forams
S

498-505
CALC CLAY
5 Y 4/2 olive gray
no mottling
smooth, compact, sticky lutite

505-700
CALC CLAY
flow in of above
end of core



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

Ship: CHAIN Core No. 28 PC

Expedition 119 Station No. 131

Leg No. 2 Total Core Length 700 cm

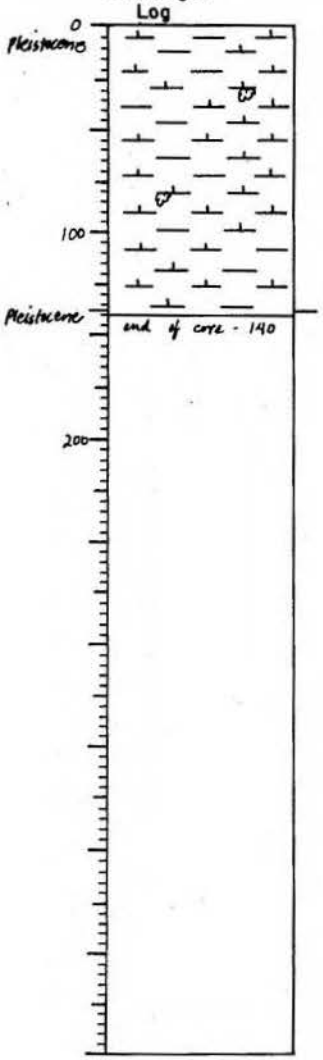
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 5 | calc clay | tr | 5 | | | 83 | tr | 10 | | | 2 | tr | | | |
| 70 | highly calc clay | tr | tr | | | 83 | tr | 15 | | tr | 2 | | | | tr |
| 145 | calc clay | tr | 1 | | | 84 | tr | 10 | 1 | tr | 4 | tr | | tr | tr |
| 176 | highly calc clay | 1 | 1 | | | 74 | tr | 20 | | tr | 4 | | | | |
| 231 | calc clay | 1 | | | | 84 | | 14 | tr | | 1 | | | | |
| 303 | calc ooze | 6 | tr | | | 60 | tr | 25 | tr | | 9 | | | | |
| 359 | calc ooze | tr | | | | 45 | 1 | 43 | 1 | tr | 2 | | | | 8 |
| 390.5 | calc ooze/pyrite with detritus | 16 | | | tr | 1 | tr | tr | tr | | 38 | | | | 45 |
| 405 | highly calc clay | tr | | | | 80 | tr | 12 | 1 | tr | 7 | | | | tr |
| 444 | calc ooze | 3 | | | | 46 | 1 | 42 | 2 | tr | 6 | | | | |
| 475 | calc clay | tr | | | | 94 | | 2 | | | 3 | | | | 1 |
| 500 | calc clay | tr | tr | | | 93 | | 3 | tr | tr | 3 | | | | 1 |
| 699 | calc clay | 1 | | | | 89 | tr | 4 | tr | | 5 | | | | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 131 Core No. 28 PG
Total Length 140 cm. Lat. 33° 58.8'N Long. 33° 37.2'E Depth 2220 corr.m.
Core condition EXCELLENT Date Described 4 Feb. 76 by T. FARMER
Physiographic location CENTRAL CYPRUS BASIN, E. of ERATOSTHENES SEAMOUNT, EMS

Lithologic Log




### Detailed Description

0-138
HIGHLY CALC CLAY AND MINOR AMOUNTS OF CALC OOZE
10 YR 4/3 brown, 4/2 dark grayish brown, with lesser amounts of 5 Y 4/2 olive gray and 10 YR 6/3 pale brown in the lower half of the unit; variations of colors appear in macrolaminations
slight mottling is scattered throughout; 10-13 cm dark brown laminations
smooth, very slick, unconsolidated lutite, except the pale brown laminations which are slightly silty lutites with scattered forams and pteropods
S

138-140
CALC CLAY
5 Y 4/2 olive gray
homogeneous throughout
smooth, very slick, unconsolidated lutite
end of core



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

Ship: CHAIN Core No. 28 PG
Expedition 119 Station No. 131
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 | PYRITE |
| 1 | highly calc clay | 1 | 5 | | | 77 | tr | 15 | | | 2 | | | | |
| 62 | calc ooze | tr | tr | | | 34 | 2 | 60 | 2 | tr | 2 | | | | tr |
| 130 | highly calc clay | tr | tr | | | 80 | tr | 18 | | | 2 | | | | tr |
| 139 | calc clay | tr | | | | 86 | | 10 | tr | tr | 3 | | | tr | 1 |

633

VISUAL CORE DESCRIPTION

Page 1 of 2

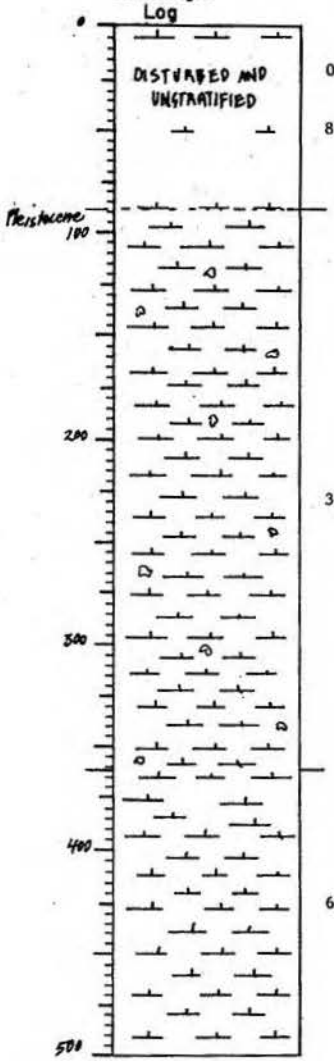
Ship CHAIN Cruise 119 Leg 2 Sta. 133 Core No. 29PC

Total Length 1294 cm. Lat. 34° 09.1'N Long. 34°23.8'E Depth 2873 m-corr.

Core condition EXCELLENT Date Described 6FEB76 by [illegible]

Physiographic location EASTERN CYPRUS BASIN, SOUTH OF EASTERN CORNER OF CYPRUS: ENVIRON MED.

Lithologic Log




Detailed Description

0-88
ENTIRE TOP SECTION (9) WASHED, DISTURBED, AND UNSTRATIFIED

88-362
CALC OOZE
varying hues of 10 YR 6/4 light yellowish brown, 6/3 pale brown, and 6/2 light brownish gray
slight intermottling of the colors above with the addition of grayish brown burrows found scattered throughout: numerous, sharply defined, textural beds are described below
smooth, very slightly silty lutite predominates with a number of very pale brown and grayish brown, somewhat graded beds of a little detrital silt and predominantly calcareous fragments: the following intervals define the major beds: 156-163 cm (ends with an olive yellow lamination); 190-193 cm; 220-227 cm (inclined basal contact ≈25°); 258-264 cm; 270-277 cm (ends with olive yellow lamination); 279-282 cm (washed, irregular basal contact); 297-301 cm; 310-313 cm; 315-322 cm; 331-335 cm
S, horizontal

362-693
CALC OOZE WITH A NUMBER OF BEDS OF CALC OOZE WITH DETRITUS
varying hues of 2.5 Y 4/2 dark grayish brown and 5/2 grayish brown
very slight intermottling of the colors above: extensive alternating interlamination and bedding, with the addition of 5 Y 3/2 dark olive gray sapropels at the intervals below
firm, slightly silty lutite with a few forams dominates, but olive gray and grayish brown silt and fragmented pteropods and foram beds are common: 367-370 cm (sapropel with abundant pteropod fragments); 390-410 cm (zone of nearly pure silt); 414-419 cm; 427-434 cm; 467-472 cm; 483-498 cm (nicely graded); thinner laminations in the zone 505-532 cm; 542-550 (bed of weathered shell hash and detritus); 560-566 (irregular basal contact); thin laminations again 570-630 cm; 638-648 cm (well-graded); 665-672 cm (slightly graded); 688-693 cm (some medium sand)
S

693-1294
FLOW IN
end of core

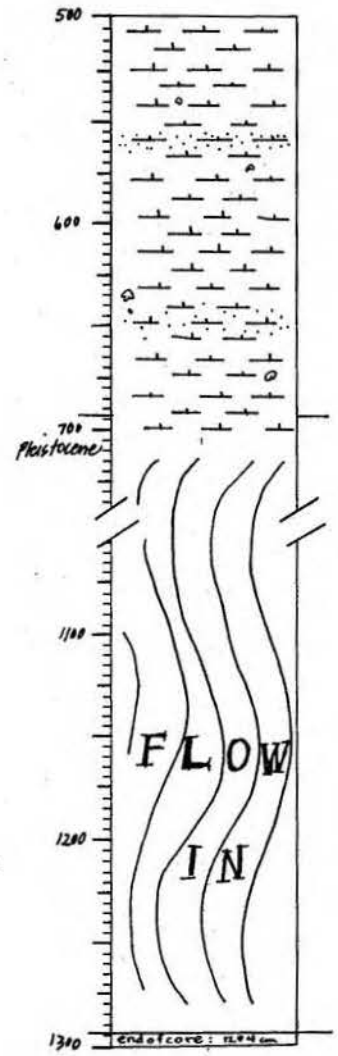
634

VISUAL CORE DESCRIPTION

Page 2 of 2

Ship CHAIN Cruise 119 Leg II Sta. 133 Core No. 29PC

Lithologic Log




Detailed Description

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

Ship: CHAIN  Core No. 29 PC

Expedition 119  Station No. 133

Leg No. 2  Total Core Length 1294 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 3 | tr | | | 29 | 10 | 45 | 2 | | 7 | | | | 4 |
| 90 | calc ooze | 5 | tr | | | 49 | 4 | 30 | | | 12 | | | | tr |
| 160 | calc ooze | 7 | tr | | | 16 | 45 | 6 | 1 | | 25 | | | | |
| 250 | calc ooze | 3 | 1 | | | 48 | 1 | 35 | | tr | 12 | | | | tr |
| 260 | calc ooze | 8 | 1 | | | 14 | 40 | 8 | 4 | | 25 | | | | tr |
| 360 | calc ooze | 3 | tr | | | 54 | 4 | 30 | 1 | | 8 | | | | |
| 375* | calc ooze | 2 | tr | | | 60 | tr | 30 | tr | | 4 | | | | 4 |
| 475 | calc ooze | 2 | tr | | | 56 | 2 | 35 | tr | | 5 | | | | |
| 545 | calc ooze | 3 | tr | | | 10 | 12 | 5 | 15 | | +55 | | | | |
| 635 | calc ooze | 6 | | | | 54 | 2 | 30 | tr | | 8 | | | | tr |
| 645 | calc ooze with detritus | 15 | tr | | | 36 | 12 | 25 | | | 10 | | | | 2 |
| 692 | calc ooze | 6 | tr | | | 49 | 7 | 20 | 2 | | 12 | | | | 4 |
| 1293 | calc clay | 8 | tr | | | 73 | tr | 12 | tr | | 3 | | | | 4 |

* contains a significant percentage of pre-Pleistocene nannos (reworked)

\+ shell fragments



VISUAL CORE DESCRIPTION

Page 1 of 1

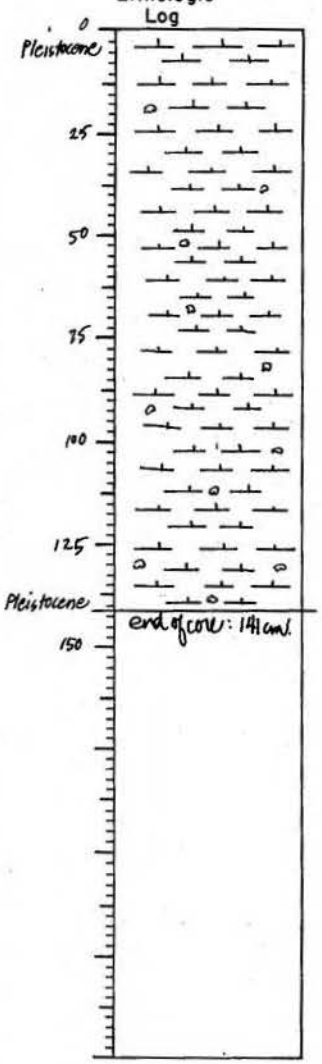
Ship CHAIN Cruise 119 Leg II Sta. 133 Core No. 29PC

Total Length 141 cm. Lat. 34° 09.1'N Long. 34° 23.0'E Depth 2073 m. corr.

Core condition EXCELLENT Date Described 6 FEB 76 by J. Brooks

Physiographic location EASTERN CYPRUS BASIN, SOUTH OF EASTERN CORNER OF CYPRUS; EASTERN MED.

Lithologic Log




Detailed Description

0-141
CALC OOZE
varying hues of 10 YR 4/3 dark brown, 4/2 dark grayish brown, and 5/2 grayish brown
slight, faint intermottling of the colors above throughout the core
moist, unconsolidated, very slightly silty lutite dominates the core, with several extremely silty (somewhat graded) beds found 38-44.5 cm, 62-67 cm, 112-118 cm (interlaminated and nicely graded)
end of core

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

Ship: CHAIN  Core No. 29 PG

Expedition 119  Station No. 133

Leg No. 2  Total Core Length 141 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 5 | 2 | | | 39 | 5 | 40 | 2 | tr | 5 | | | | 2 |
| 42 | calc ooze | 2 | tr | | | 26 | 6 | 45 | 15 | | 4 | | | | 2 |
| 100 | calc ooze | 3 | tr | | | 37 | 3 | 50 | tr | | 5 | | | | 2 |
| 116 | calc ooze | 8 | | | | 27 | 6 | 40 | 3 | | 15 | | | | 1 |
| 140 | calc ooze | 2 | | | | 29 | 10 | 40 | 6 | | 12 | | | | 1 |



VISUAL CORE DESCRIPTION



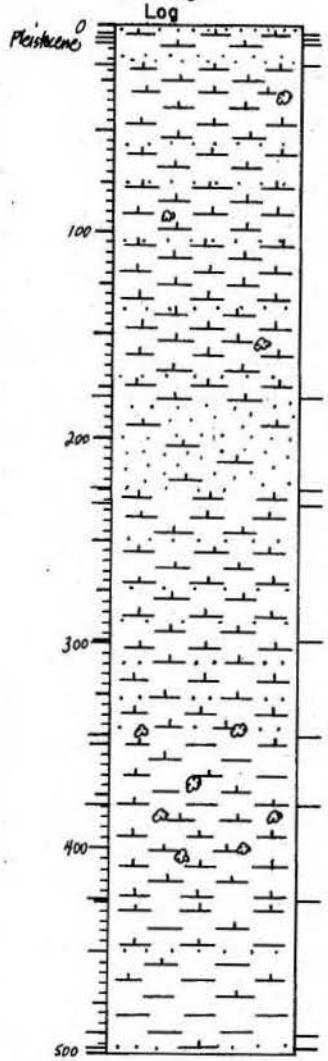
Ship CHAIN Cruise 119 Leg 2 Sta. 135 Core No. 30 PC

Total Length 652 cm. Lat. 33° 35.786'N Long. 34° 01.156'E Depth 2013 corr. m.

Core condition EXCELLENT Date Described 3 Feb 76 by H. FARMER

Physiographic location EASTERN CYPRUS BASIN, E. of ERATOSTHENES SEAMOUNT, EMS

Lithologic Log




Detailed Description

NOTE: On comparison with the pilot core, the top 17 cm do not appear stratigraphically continuous. Rather, it seems that certain sediment was preferentially sampled as the lower core barrel entered the sediment before the piston moved.

0-3
CALC OOZE/DETRITUS
10 YR 6/3 pale brown
homogeneous
washed, fine sand
S, disturbed

3-5
CALC OOZE
10 YR 5/3 pale brown
subtle, scattered mottling
slightly silty, slick lutite with scattered forams
S

5-7
CALC OOZE
2.5 Y 3/2 very dark grayish brown
somewhat disturbed, subtle laminations
slightly silty, unconsolidated lutite with narrow (3mm) laminations of biogenic sand in middle
S

7-17
CALC OOZE
10 YR 6/3 pale brown, 5/2 and 4/2 grayish browns; colors appear as somewhat disturbed and mottled macrolaminations
no mottling
slightly silty lutite with few forams, except 14-17 cm a fine sand bed washed and distorted along core liner (calc ooze/detritus)
S

17-180
CALC OOZE INTERBEDDED WITH CALC OOZE/DETRITUS
10 YR 6/3 pale brown and 5/3 brown with minor laminations of 7/3 very pale brown; colors appear as gradational macrolaminations, generally becoming darker with depth
scattered mottling of pale brown and brown occurs throughout; 87-95 cm, black mottles are scattered
silty to slightly silty lutites with scattered forams interbedded with very pale brown fine to medium sands 56-59, 74-76, 103-107, 136-139, 168-171 cm; occasional inclusions of these fine sands occur elsewhere in the unit
S

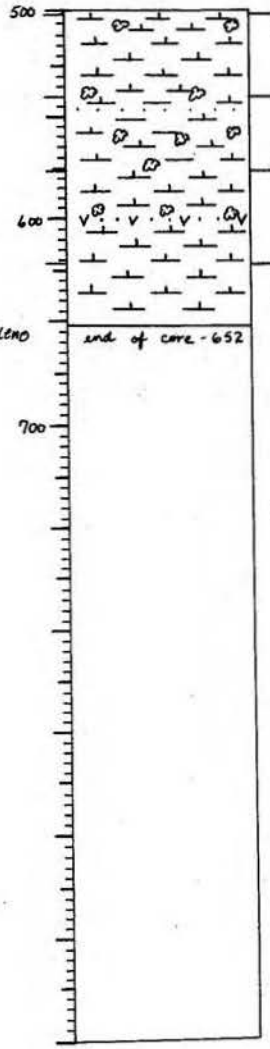
639

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 135 Core No. 30 PC

Lithologic Log




Detailed Description

180-224
CALC OOZE/DETRITUS
10 YR 5/3 brown
laminated in hues of brown, becoming grayer with depth
fine, but somewhat disturbed sand, lutite clast from lower unit present at 209 cm
S, but very disturbed

224-232
CALC OOZE
5 Y 5/3 olive
no mottling
silty to very silty lutite with sandy clasts indicating disturbance and some mixing with above unit
S

232-298
CALC OOZE INTERBEDDED WITH DETRITUS
5 Y 4/2 (predominant), 5/2 olive grays and 3/2 dark olive gray (246-248 cm)
macrolaminations with no mottling, but some coring disturbance of sandy units
silty to very silty lutite interbedded with fine sand; forams and pteropods are abundant 239-242 cm, but generally scattered in top portion and decrease with depth
S

298-346
CALC OOZE INTERBEDDED WITH CALC OOZE/DETRITUS
5 Y 5/2 olive gray (predominant) with lesser amounts of 4/2 and 3/2 olive gray and dark olive gray
macrolaminations with minor, localized mottling 314-316, 341-346 cm
lutites vary from slightly to very silty, interbedded with fine sand; forams are scattered at top but decrease rapidly in remainder of lutite
S

346-379
CALC CLAY
5 Y 3/2 dark olive gray
scattered, small, pale olive mottles throughout
smooth, firm, sticky lutite
S

379-424
CALC OOZE
2.5 Y 6/2 light brownish gray
brownish-gray mottling is common in the top 7 cm; below this to 410 cm are numerous, very pale mottles and sandy clasts that appear to have come from several disturbed laminations
silty, somewhat sticky lutite with several sand lams distorted into isolated clasts
G

640

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 135 Core No. 30 PC

Lithologic Log

Detailed Description

424-490
CALC OOZE AND HIGHLY CALC CLAY
2.5 Y 6/2 light brownish gray, grades to 10 YR 5/3 brown
extensive marbling and mixing with lower unit of 10 YR 4/2 dark grayish brown
sticky, slightly silty lutite becomes less silty with depth; dark grayish brown unit is a smooth lutite; 451-453 cm- disturbed, fine sand
S, disturbed

490-497
CALC OOZE/DETRITUS
5 Y 5/2 olive gray
homogeneous
fine sand
S, disturbed

497-502
HIGHLY CALC CLAY
10 YR 3/2 very dark grayish brown
slight mottling from below
smooth, sticky lutite
S, very distorted

502-540
CALC OOZE
5 Y 5/2 olive gray
dark grayish brown mottles are common in top 10 cm and bottom 14 cm
slightly silty, sticky lutite
S, but severely burrowed

540-576
HIGHLY CALC CLAY AND CALC OOZE
5 Y 3/2 dark olive gray (primarily 540-547 cm), and 4/2 olive gray
severe marbling of above colors appears to be mostly due to burrowing; however, coring disturbance is clear above and below and may be partially responsible
slightly silty, sticky lutite with few forams; two thin detrital sands at 546 and 548 cm
S, very distorted

576-622
CALC OOZE
5 Y 5/2 olive gray, becomes somewhat paler with depth
dark olive gray mottling is common from 588-597 cm, scattered in rest of unit
silty lutite with few forams, except fine sand (calc ooze/volcanic ash/detritus) 597-602 cm
S

622-652
CALC OOZE
5 Y 6/2 light olive gray and 5/2 olive gray
severely disturbed, probably flow in
silty lutite with few forams
end of core

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

Ship: CHAIN  Core No. 30 PC

Expedition 119  Station No. 135

Leg No. 2  Total Core Length 652 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze/ detritus | 45 | | | | 1 | 3 | 2 | | | 49 | | | | |
| 8 | calc ooze | 1 | | | | 36 | tr | 58 | 1 | tr | 4 | | | | tr |
| 80 | calc ooze | 1 | tr | | | 40 | tr | 54 | tr | | 5 | | | | |
| 137 | calc ooze/ detritus | 60 | | | | 2 | 1 | tr | | | 37 | | | | |
| 212 | calc ooze/ detritus | 71 | | | | 4 | 7 | tr | | | 18 | | | | |
| 244 | calc ooze | 5 | | | | 58 | tr | 20 | 7 | tr | 7 | | | | 3 |
| 295 | detritus | 88 | | | | tr | 1 | 1 | | | 10 | | | | |
| 330 | calc ooze | 5 | tr | | | 60 | 1 | 26 | 1 | | 7 | | | | |
| 370 | calc clay | 1 | | | | 84 | tr | 12 | tr | | 3 | | | | tr |
| 396 | calc ooze | 1 | | | | 48 | 1 | 40 | tr | | 10 | | | | |
| 457 | calc ooze | 1 | | | | 50 | 1 | 38 | tr | tr | 10 | | | | tr |
| 496 | calc ooze/ detritus | 59 | | | tr | 1 | 5 | tr | 4 | | 31 | | | | |
| 544 | calc ooze | 15 | | | | 52 | tr | 18 | | | 15 | | | | tr |
| 548 | detritus | 90 | | | | tr | | tr | | | 10 | | | | |
| 585 | calc ooze | 2 | | | | 46 | 1 | 45 | 2 | | 4 | | | | |
| 600 | calc ooze/volc. ash/detritus | 31 | | | 35 | 1 | 2 | tr | 2 | | 29 | | | | tr |
| 650 | calc ooze | 3 | | | | 45 | 1 | 44 | 1 | | 6 | | | | tr |

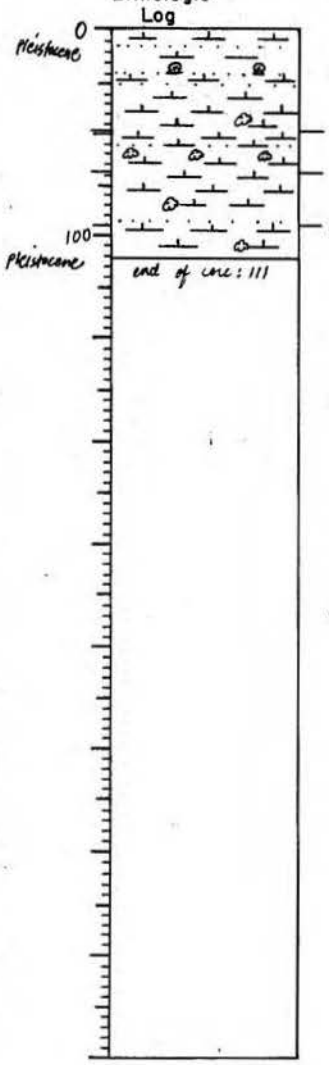


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 135 Core No. 30 PG
Total Length 111 cm. Lat. 33° 35.786'N Long. 34° 01.156'E Depth 2013 uncorr. m.
Core condition EXCELLENT Date Described 3 Feb 76 by H. FARMER
Physiographic location EASTERN CYPRUS BASIN, E. of ERATOSTHENES SEAMOUNT, EMS.

Lithologic Log




Detailed Description

0-49
CALC OOZE AND CALC OOZE/DETRITUS
10 YR 5/3 brown, grades to pale brown 6/3 below 19 cm
scattered, subdued mottling in lower 10 cm
slick, unconsolidated lutite with scattered forams and pteropods; interbedded with brown, pteropod-rich sand at 7 cm, 17.5-19 cm, 23-25 cm
S

49-68
CALC OOZE AND CALC OOZE/DETRITUS
2.5 Y 3/2 varying hues of very dark grayish brown, interbedded with laminations of grayish brown
very small, pale mottles are common in top 8 cm and very intense from 58-61 cm
silty lutites interbedded with fine sand and very, very silty lutite
G

68-95
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 varying hues of pale brown, with lesser amounts of 4/2 dark grayish brown in bottom 9 cm
scattered mottling between macrolaminations of above colors
silty lutite with scattered forams; dark grayish browns are smoother and less silty; narrow (3mm) sand lense at bottom
S

95-111
CALC OOZE
10 YR 5/3 brown, tends towards 6/3 pale brown
scattered mottling of above colors
slightly silty lutite with scattered forams
end of core

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

Ship: CHAIN  Core No. 30 PG

Expedition 119  Station No. 135

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 | PYRITE |
| 1 | calc ooze | 2 | tr | | | 55 | tr | 40 | tr | | 3 | | | | |
| 19 | calc ooze/ detritus | 70 | tr | | | tr | 7 | tr | 8 | | 15 | | | | |
| 51 | calc ooze | tr | | | | 47 | 1 | 47 | tr | | 2 | | | | 3 |
| 63 | calc ooze/ detritus | 60 | | | | tr | 5 | tr | 2 | | 32 | | | | 1 |
| 109 | calc ooze | tr | | | | 50 | | 46 | | | 4 | | | | |

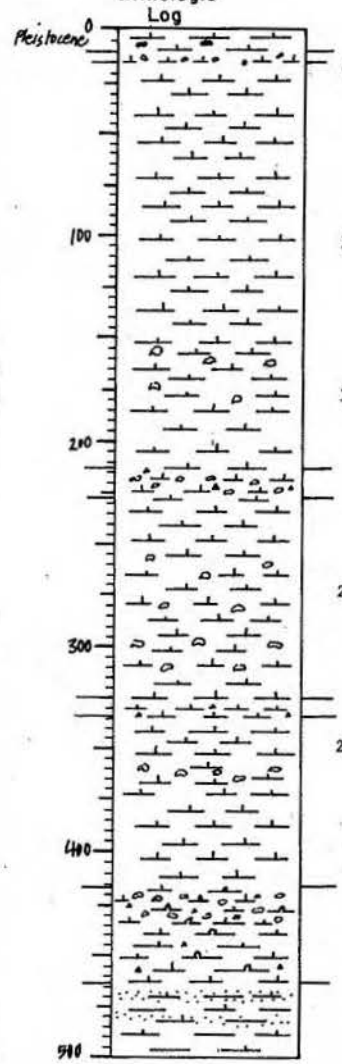


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 137 Core No. 31PC
Total Length 637 cm. Lat. 32° 56.2'N Long. 33° 45.0'E Depth 1637 m. corr.
Core condition EXCELLENT Date Described 10 FEB 76 by [illegible]
Physiographic location LEVANT PLATFORM : EASTERN MEDITERRANEAN SEA.

Lithologic Log




Detailed Description

0-10
CALC OOZE
10 YR 6/3 pale brown, grades to 6/1 light gray
a bit of fine intermottling at 6 cm
slick lutite with a few forams
Note: The top 22 cm of the piston core appear to be a compacted facsimile of the whole 97 cm of the surface sediment recovered in the pilot core
S

10-15
CALC OOZE
5 Y 3/2 dark olive gray
extensive, fine, light gray mottling and microlaminations throughout
moist, slick lutite with scattered forams
sapropel zone
S

15-213
CALC OOZE
10 YR 6/4 light yellowish brown, grades to 6/3 pale brown
scattered, slight grayish brown mottling 150-180 cm
smooth lutite, becomes more compact with increasing depth; a few pteropod and shell fragments (pelecypod) scattered, then a bed and a few microlaminations of foram sand
very S, horizontal

213-226
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, fine, light gray mottles, burrows, and then microlaminae found throughout
firm, compact lutite with scattered pteropods and forams
sapropel zone
S, horizontal

226-325
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown, back to 5/2 grayish brown
common, fine intermottling 250-310 cm
firm, compact, smooth lutite with scattered forams and pteropod fragments
pteropods very abundant 315-325, and a hash of fragments is found in dark olive gray, very slick lutite at unit basal contact
S, irregular

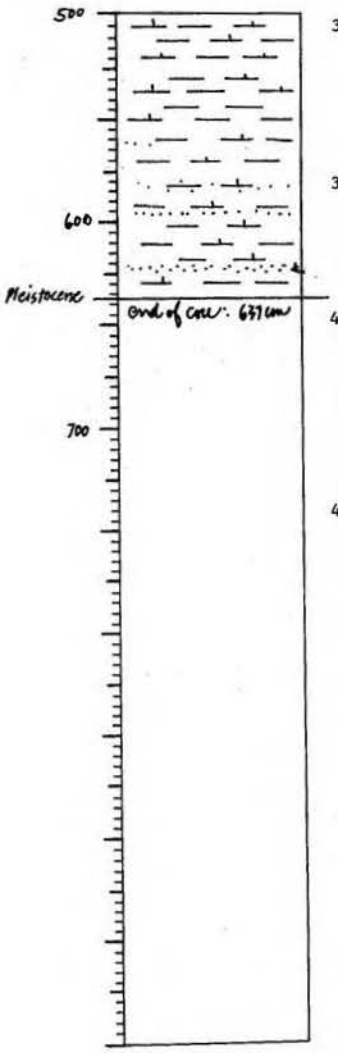
645

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 137 Core No. 31PC

Lithologic Log




Detailed Description

325-334
CALC OOZE
5 Y 3/2 dark olive gray
a few, fine, light gray microlaminations 330-334 cm
slick, compact lutite with a few pteropods in the microlaminated zone
sapropel zone
G

334-416
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown
common intermottling in the transitional zone 356-365 cm
firm, slightly silty lutite with a few forams, becoming more abundant with depth
G

416-463
CALC SILIC OOZE
5 Y 3/2 dark olive gray
intense, very fine, light olive gray mottling 416-431; basically homogeneous 431-463, with a few fine microlaminae
slick lutite with abundant forams and scattered pteropods
sapropel zone
G

463-637
HIGHLY CALC CLAY WITH BEDS OF CALC CLAY/DETRITUS; GRADES TO CALC CLAY WITH BEDS AND LAMINATIONS OF CALC CLAY/DETRITUS
10 YR 4/1 dark gray
several shadowy, very dark gray zones associated with textural anomalies
compact, slick lutite with several silty beds and laminations: broad beds - 468-472 cm, 478-482 cm, 620-624 cm; laminations - throughout the zone 515-615 cm
end of core

646

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

Ship: CHAIN Core No. 31 PC

Expedition 119 Station No. 137

Leg No. 2 Total Core Length 637 cm

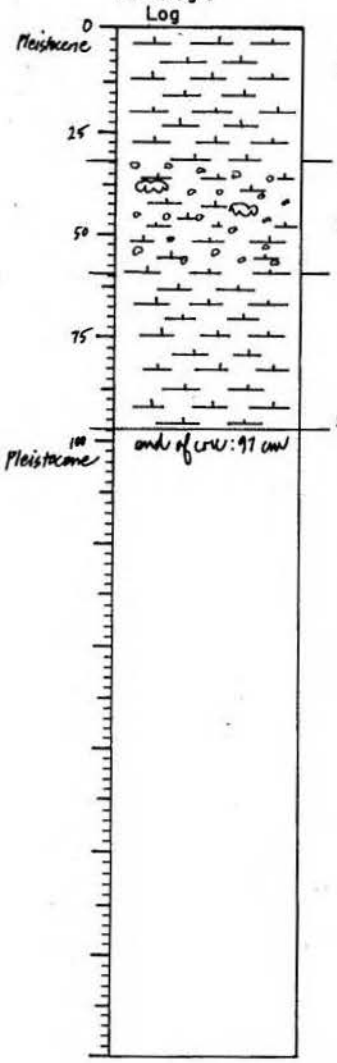
| SILICO FLAGS | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| | 1 | calc ooze | 3 | tr | | | 36 | 6 | 40 | | | 15 | | | | |
| | 100 | calc ooze | 4 | | | | 51 | 2 | 35 | | | 8 | | | | |
| | 200 | calc ooze | 4 | | | | 35 | 5 | 42 | | | 14 | | | | |
| | 220 | calc ooze | 2 | tr | | | 30 | 2 | 50 | | | 6 | | | | 10 |
| | 300 | calc ooze | 2 | tr | | | 46 | 3 | 45 | | | 4 | | | | tr |
| | 328 | calc ooze | 2 | tr | | | 29 | 5 | 50 | | | 4 | | | | 10 |
| | 400 | calc ooze | 3 | | | | 50 | 3 | 40 | | | 4 | | | | tr |
| 1 | 440 | calc silic ooze | 2 | | | | 63 | 3 | 15 | | | 3 | 6 | | tr | 8 |
| | 472 | calc clay/ detritus | 55 | | | | 27 | tr | 10 | | | 5 | | | | 3 |
| | 550 | highly calc clay w/detritus | 15 | | | | 61 | 1 | 10 | | | 8 | | | | 5 |
| | 606 | calc clay/ detritus | 60 | | | | 21 | tr | 8 | | | 7 | | | | 4 |
| | 623 | calc clay/ detritus | 55 | | | | 34 | tr | 5 | | | 6 | | | | tr |
| | 636 | calc clay | 8 | | | | 84 | | 4 | | | 2 | | | | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 137 Core No. 31PG
Total Length 97 cm. Lat. 32° 56.2'N Long. 33° 45.0'E Depth 1637m-corr.
Core condition EXCELLENT Date Described 10 FEB 76 by J. Blake.
Physiographic location LEVANT PLATFORM: EASTERN MEDITERRANEAN SEA.

Lithologic Log




### Detailed Description

0-32
CALC OOZE
10 YR 6/4 light yellowish brown
homogeneous throughout, except for some slight intermottling at basal contact
moist, slick, unconsolidated lutite with a few scattered forams
S, mottled

32-59
CALC OOZE
5 Y 3/2 dark olive gray
intense, very fine, light olive mottling and flecking throughout, with two very large, grayish-brown burrows spanning liner 37-38 cm, 41-42 cm
moist, slick lutite with abundant forams and scattered pteropods
sapropel zone
S

59-97
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown, to 6/4 light yellowish brown
slight, fine intermottling throughout
moist, slick lutite with a few scattered forams
end of core



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

Ship: CHAIN Core No. 31 PG
Expedition 119 Station No. 137
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 | PYRITE |
| 1 | calc ooze | 3 | 3 | | | 23 | 3 | 60 | 4 | | 4 | | | | |
| 30 | calc ooze | tr | 4 | | | 30 | 2 | 56 | 3 | | 5 | | | | |
| 40 | calc ooze | 2 | tr | | | 29 | 6 | 50 | 2 | | 4 | | | | 7 |
| 65 | calc ooze | 1 | tr | | | 24 | 7 | 52 | 5 | | 8 | | | | 3 |
| 96 | calc ooze | 3 | tr | | | 36 | 5 | 42 | 2 | | 12 | | | | |

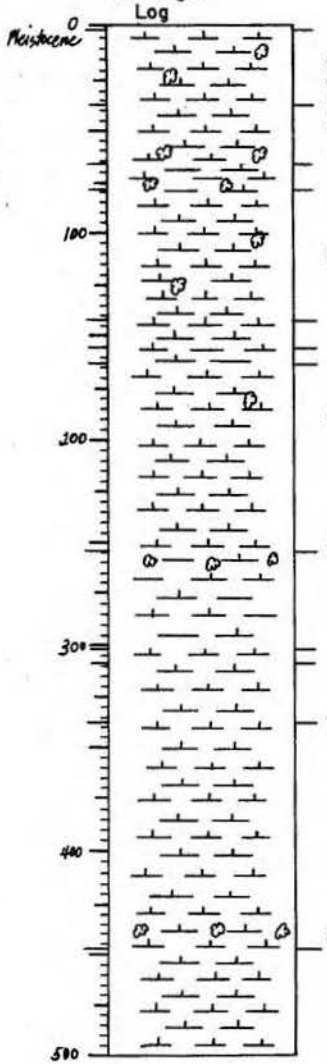
649

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 139 Core No. 32 PC
Total Length 876 cm. Lat. 32° 50.07'N Long. 32° 59.27'E Depth 1381 corr. m.
Core condition EXCELLENT Date Described 9 Feb 76 by T FARMER
Physiographic location Edge of LEVANT PLATFORM, N. of Port Said, Egypt; EMS.

Lithologic Log




### Detailed Description

Correlation between the piston and pilot cores is very uncertain and it should be noted that the top of the piston core may not represent a continuous section.

0-1
CALC OOZE
5 Y 3/2 dark olive gray
some mixing has occurred with lower unit
slick, slightly silty lutite with scattered forams and pteropods
S

1-37
CALC OOZE
10 YR 5/3 brown and 4/2 dark grayish brown occur in very gradational macrolaminations
small mottles of the basic colors are common throughout
silty lutite with scattered forams and pteropods; 36-37 cm is a calcareous silt
S

37-67
CALC OOZE
10 YR 5/3 varying hues of brown
small, dark gray mottles are common in lower half and decrease somewhat in top portion
slick, silty lutite with scattered forams
S

67-79
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
numerous, very small, pale mottles, particularly in lower half, and several larger, light grayish-brown mottles near the top
slightly silty, sapropelic lutite, pteropods are common particularly at the top, and forams throughout
S

79-142
CALC OOZE
2.5 Y 4/2 dark grayish brown, grades gently to 10 YR 6/3 pale brown, followed by 5/3 brown
mottling of the primary colors is present throughout, but more common in the lighter colors
slightly silty lutite, becomes very silty in the middle (pale brown), and somewhat less towards the bottom; two fine, sand laminations appear at 95 cm and a pteropod-rich layer at 115 cm
S

142-155
CALC OOZE
2.5 Y 4/2 dark grayish brown, grades to 5/2 grayish brown

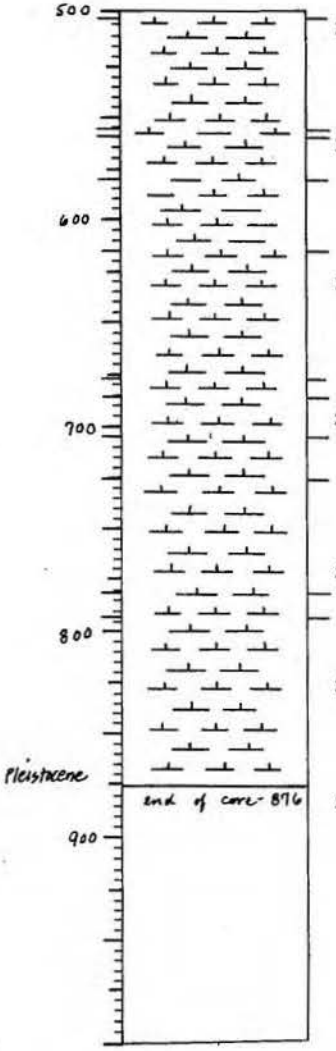
650

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 139 Core No. 32 PC

Lithologic Log




### Detailed Description

142-155 (cont.)
numerous, very small, black mottles appear in the first 4 cm
fairly silty lutite, becomes smoother as forams decrease with depth
S

155-163
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
a few small, pale mottles appear throughout, and a large, grayish brown mottle at the top
silty, sapropelic lutite with few forams
S

163-254
CALC OOZE
5 Y 4/2 grades to 5/2 olive grays
minor mottling of above colors is present throughout
fairly silty lutite, forams and pteropods are generally common, particularly in lower 30 cm
S

254-302
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray and 2.5/2 black
whole unit is microlaminated in above colors, and innumerable, small, pale mottles appear in top 20 cm
silty, mulchy, sapropelic lutite; forams are fairly abundant in top 20 cm, but decrease considerably at depth; 195-197, slick lutite layer
S

302-309
CALC OOZE
10 YR 5/2 grayish brown
a few mottles from above are scattered in top 2 cm
fairly silty lutite, forams are scattered
S, but severely disturbed

309-337
CALC OOZE
10 YR 6/2 light brownish gray
a few, grayish brown mottles extend from above unit
plastic-like, silty lutite, forams are scattered
very G

337-447
CALC OOZE
10 YR 6/3 varying hues of pale brown
there is some slight marbling between hues; 385-415 cm shows a general hint of olive; numerous, small, pale mottles from 428-446 cm
firm, silty lutite, becomes coarser and more compact in interval 385-415 cm
G

651

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 139 Core No. 32 PC

Lithologic Log

Detailed Description

447-503
CALC OOZE
5 Y 4/2 olive gray, 3/2 dark olive gray laminations in lower half
innumerable, fine microlaminations are particularly well-defined in lower half
firm, silty, mulchy, sapropelic lutite; forams vary from scattered to abundant
S

503-556
CALC OOZE
5 Y 6/2 light olive gray, grades to 5/2 olive gray
innumerable, small, very subtle mottles appear from 537-555 cm
very silty lutite, grades to fairly slick lutite with fewer forams
S

556-560
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
innumerable, small, pale mottles throughout
firm, fairly slick lutite, forams are scattered
S, but severely disoriented

560-576
CALC OOZE
5 Y 5/2 grades to 4/2 olive grays
abundant, small mottles from above
slightly silty lutite with common forams
S, but burrowed

576-615
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
innumerable, well-defined microlaminations
silty, mulch-like, foram-rich sapropel, grades to a slicker lutite in lower 5 cm
S

615-677
CALC OOZE
5 Y 4/2 grades to 5/2 olive grays, and 6/2 light olive gray
scattered, intermottling is present, particularly with a darker lamination 642-648 cm
firm, fairly silty lutite, becomes very silty in lowest 10 cm where forams are abundant
S

677-686
CALC OOZE
5 Y 3/2 dark olive gray, grades to 4/2 olive gray
numerous, small, pale mottles throughout
foram-rich, sapropelic lutite, becomes less silty and slicker
S, but severely distorted

652

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 139 Core No. 32 PC

Lithologic Log

Detailed Description

686-705
CALC OOZE
5 Y 4/2 olive gray
common, small, subtle mottles throughout
firm, very silty lutite with common forams
S, but disturbed

705-725
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, fine microlaminations
mulchy, sapropelic lutite; forams are numerous to abundant
S

725-781
CALC OOZE
5 Y 5/2 olive gray, grades to 5/3 olive
extensive marbling is present from 740-775 cm; a 2 x 3 cm, dark olive gray clast is at 768 cm
firm, somewhat sticky, silty lutite with forams more common at either end
S

781-793
CALC OOZE
5 Y 3/2 dark olive gray
very abundant, light brownish-gray mottles
mulchy, firm, sapropelic lutite; forams are common
S

793-876
CALC OOZE
10 YR 4/2 dark grayish brown, grades to 5/3 hues of brown, followed by 5/2 grayish brown
mottling is fairly common only with the browns in the middle (813-855)
firm, somewhat slick lutite; forams are abundant near the top, but scattered in the remainder of the unit

end of core

NOTE: the cyclic nature of the above combinations of lithologies should not be overlooked

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

Ship: CHAIN  Core No. 32 PC

Expedition 119  Station No. 135

Leg No. 2  Total Core Length 876 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | 1 | | | 56 | 3 | 34 | 2 | | 2 | | | | 2 |
| 18 | calc ooze | 2 | tr | | | 67 | tr | 26 | tr | | 5 | | | | |
| 112 | calc ooze | 4 | tr | | | 33 | 1 | 58 | 1 | | 3 | | | | |
| 173 | calc ooze | tr | tr | | | 60 | 1 | 36 | 1 | | 2 | | | | |
| 283 | highly calc clay | tr | | | | 70 | 4 | 20 | tr | | 1 | | | | 5 |
| 321 | calc ooze | 1 | | | | 36 | 1 | 50 | 4 | tr | 8 | | | | |
| 423 | calc ooze | tr | | | | 54 | 1 | 40 | 1 | | 4 | | | | |
| 484 | calc ooze | 1 | | | | 48 | 10 | 38 | tr | | 1 | | | | 2 |
| 557 | highly calc clay | tr | | | | 78 | 1 | 20 | tr | tr | 1 | | | | tr |
| 591 | highly calc clay | | | | | 69 | 2 | 27 | tr | tr | tr | | | | 2 |
| 620 | calc ooze | tr | | | | 56 | 1 | 40 | tr | | 2 | | | | 1 |
| 660 | calc ooze | 1 | tr | | | 30 | 1 | 58 | 5 | | 5 | | | | |
| 716 | calc ooze | 1 | | | | 50 | 8 | 35 | 1 | | 4 | | | | 1 |
| 809 | calc ooze | 1 | | | | 55 | tr | 40 | tr | | 4 | | | | |
| 875 | calc ooze | 2 | tr | | | 27 | tr | 65 | tr | | 6 | | | | |



VISUAL CORE DESCRIPTION



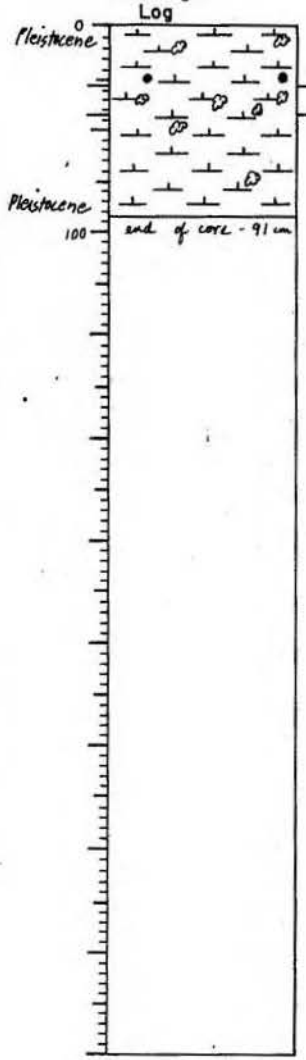
Ship CHAIN Cruise 119 Leg 2 Sta. 139 Core No. 32 PG

Total Length 93 cm. Lat. 32° 50.07' N Long. 32° 59.27' E Depth 1381 corr. m.

Core condition EXCELLENT Date Described 9 Feb 76 by T. FARMER

Physiographic location Edge of LEVANT PLATFORM, N. of Port Said, Egypt; E.M.S.

Lithologic Log




Detailed Description

0-25
CALC OOZE
10 YR 5/4 hues of yellowish brown
small, subtle mottling is present to 15 cm; below this, bioturbation increases with several large, pale brown and dark brown burrows
fairly silty, somewhat unconsolidated lutite; forams and pteropods are fairly common throughout
G

25-27
CALC OOZE
10 YR 4/4 dark yellowish brown and 5 YR 3/3 dark reddish brown
laminations of above colors
silty lutite with common forams
S

27-43
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, small, light brownish gray mottles with several large burrows of the same color
somewhat silty, slickish, sapropelic lutite; forams and pteropods are common
S

43-93
CALC OOZE
10 YR 4/2 dark grayish brown, grades to 5/3 brown with minor occurrence of 6/3 pale brown (62-68 cm)
innumerable, small mottles continue from above into top 5 cm; mottling of primary colors is fairly common below that
slick, unconsolidated, slightly silty lutite, becomes firmer and considerably siltier in lower 20 cm
end of core

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

Ship: CHAIN  Core No. 32 PG

Expedition 119  Station No. 139

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 | PYRITE |
| 1 | calc ooze | 1 | 1 | | | 33 | 1 | 60 | 2 | | 2 | | | | |
| 25 | calc ooze | tr | 10 | | | 57 | 2 | 30 | tr | | 1 | | | | |
| 38 | calc ooze | tr | 5? | | | 60 | 1 | 30 | 1 | | 1 | | | | 2 |
| 91 | calc ooze | 3 | | | 2 | 36 | 1 | 44 | 1 | | 13 | | | | |



VISUAL CORE DESCRIPTION



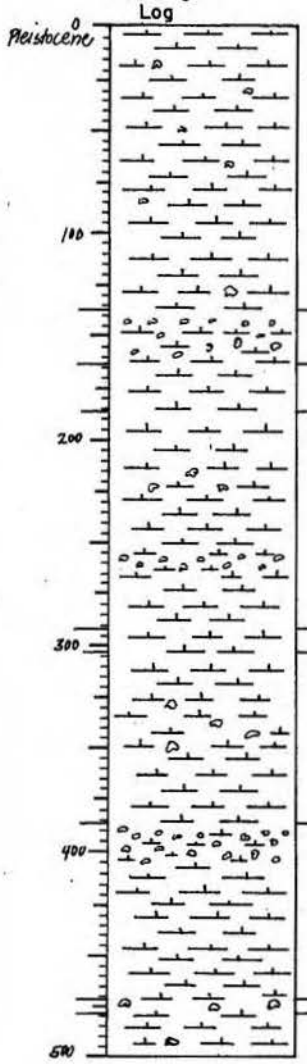
Ship CHAIN Cruise 119 Leg II Sta. 141 Core No. 33PC

Total Length 904 cm. Lat. 32° 32.6'N Long. 32° 17.2' E Depth 1149 corr. m.

Core condition EXCELLENT Date Described 12 FEB 76 by J. Broda

Physiographic location ISIS RIDGE COMPLEX, N. of PORT SAID, EAST. MEDITERRANEAN

Lithologic Log




Detailed Description

0-137
CALC OOZE
varying hues of 10 YR 5/2 grayish brown and 6/3 pale brown
slight, irregular intermottling found scattered throughout
moist, slick lutite with scattered forams, a few pteropods
G

137-164
CALC OOZE
5 Y 3/2 dark olive gray
extensive, fine, light olive gray mottling and flecks throughout: a few fine microlaminae are found near unit basal contact
a bit more compact, slick lutite with scattered forams and pteropods
sapropel zone
S

164-186
CALC OOZE
10 YR 5/2 grayish brown
homogeneous throughout, except for one thin, pale brown lamination at 176 cm
smooth, slightly silty lutite with scattered forams and a silty lamination at basal contact
S

186-291
CALC OOZE
10 YR 6/3 pale brown, grades to 6/4 light yellowish brown, to 5/2 grayish brown
common intermottling of the colors above in transitional zones
firm, slightly silty lutite with scattered forams
extensively mottled sapropel-like zone (5 Y 5/3) 255-265 cm
G

291-302
CALC OOZE
2.5 Y 3/2 very dark grayish brown
homogeneous throughout
compact, silty lutite with abundant forams
sapropel-like zone
S, horizontal

302-386
CALC OOZE
10 YR 5/2 grayish brown, grades to 6/3 pale brown
common intermottling of colors above in transitional zone
slick lutite with scattered forams, irregular lenses and inclusions of silty carbonate fragments in disturbed zone
core appears disturbed and unstratified 321-341 cm
G, mottled

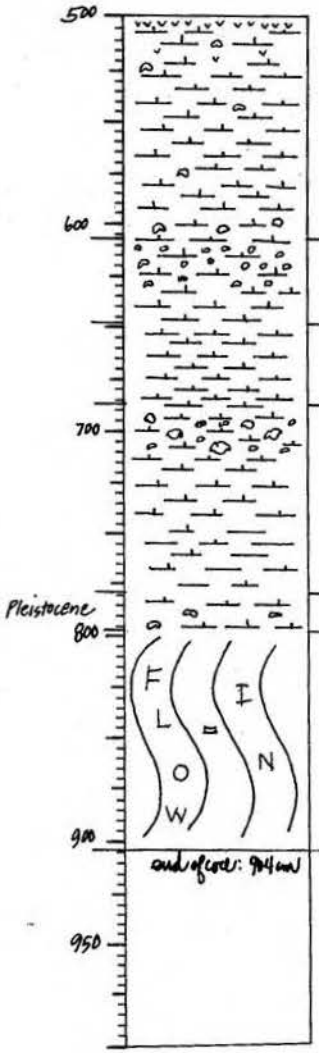
657

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 141 Core No. 33PC

Lithologic Log




Detailed Description

386-471
CALC OOZE
5 Y 3/2 very dark gray, grades to 10 YR 4/1 dark gray
very extensive, light olive gray mottling and burrowing 386-405 cm, followed by fine microlaminations of the same color to end of unit-471 cm
somewhat coarse, mulchy lutite with abundant forams and pteropods is interbedded with slick, compact, dark gray lutite in the following zones: 446-448 cm, 461-471 cm
a few very fine, silty laminations are found near unit basal contact: sapropel zone
S, mottled

471-478
CALC OOZE
10 YR 5/1 gray
common, light gray and dark gray mottling throughout
firm, silty lutite with abundant forams
S, irregular

478-607
CALC OOZE WITH ZONES OF CALC OOZE/ASH
5 Y 7/2 light gray, grades to 10 YR 7/2 light gray
common, light gray and white mottling found irregularly throughout
firm, slightly silty lutite with an ash bed 503-505 cm, ashy zone 512-517 cm, and lithified, white, calcareous lumps scattered 538-543 cm, 566-580 cm
S, irregular

607-647
CALC OOZE
5 Y 3/2 very dark olive gray
extensive, light olive gray mottling 607-627 cm, and microlamination 627-647 cm
firm, compact, silty lutite with abundant forams
sapropel zone
S, mottled

647-686
CALC OOZE
5 Y 6/1 gray grades to 5/2 olive gray
homogeneous throughout
firm, smooth lutite with a few scattered forams
G, mottled

686-779
CALC OOZE GRADES TO CALC CLAY
5 Y 3/2 dark olive gray
extensive fine and common large mottling and burrowing 686-710 cm; microlamination 710-779 cm

658

VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 141 Core No. 33 Pc

Lithologic Log

Detailed Description

686-779 (cont.)
firm, compact, silty lutite with abundant forams
sapropel zone
S, horizontal

779-796
CALC OOZE
10 YR 6/3 pale brown
faint, light gray mottling found throughout
firm, compact, slightly silty lutite with scattered forams
S, irregular

796-904
FLOW IN
end of core

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

Ship: CHAIN  Core No. 33 PC

Expedition 119  Station No. 141

Leg No. 2  Total Core Length 904 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | 4 | 1 | | | 50 | 3 | 35 | 2 | | 5 | | | | |
| 100 | calc ooze | 2 | tr | | | 64 | 2 | 25 | tr | | 7 | | | tr | |
| 150 | calc ooze | 3 | tr | | | 15 | 7 | 55 | 3 | | 8 | | | | 9 |
| 250 | calc ooze | 2 | | | | 55 | 4 | 30 | 3 | | 6 | | | | |
| 350 | calc ooze | 10 | tr | | | 16 | 9 | 55 | 2 | | 8 | | | | tr |
| 420 | calc ooze | 3 | 1 | | | 50 | 5 | 25 | 3 | | 5 | | | | 8 |
| 490 | calc ooze | 2 | | | | 19 | 3 | 35 | 1 | | 40 | | | | tr |
| 504 | calc ooze/ash | 8 | tr | | 25 | 12 | 4 | 38 | 2 | | 10 | | | | 1 |
| 540 | calc ooze | tr | | | | 35 | tr | 15 | | | 50 | | | | |
| 550 | calc ooze | 5 | | | | 19 | 2 | 35 | 4 | | 35 | | | | |
| 640 | calc ooze | 2 | | | | 43 | 3 | 40 | 3 | | 4 | | | | 5 |
| 660 | calc ooze | 1 | tr | | | 41 | 5 | 45 | 3 | | 5 | | | | tr |
| 750 | calc clay | 3 | tr | | | 74 | tr | 15 | tr | | 3 | | | | 5 |
| 785 | calc ooze | 2 | tr | | | 38 | 3 | 45 | 2 | | 10 | | | | tr |
| ~~903~~ | ~~calc ooze~~ | ~~3~~ | | | | ~~59~~ | ~~3~~ | ~~30~~ | ~~tr~~ | | ~~3~~ | | | | 2 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |



VISUAL CORE DESCRIPTION

Page 1 of 1

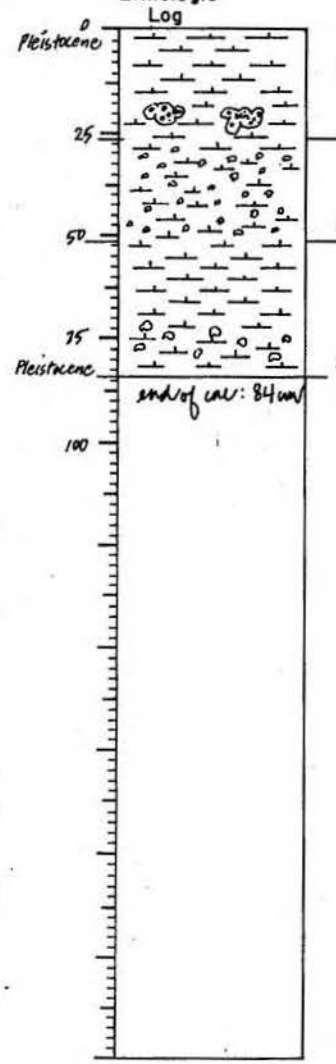
Ship CHAIN Cruise 119 Leg II Sta. 141 Core No. 33PG

Total Length 84 cm. Lat. 32° 32.6' N Long. 32° 17.7' E Depth 1149 CORR M

Core condition EXCELLENT Date Described 11 FEB 76 by J. Bunda

Physiographic location ISIS RIDGE COMPLEX, N. of PORT SAID, EAST. MED. SEA

Lithologic Log




Detailed Description

0-26
CALC OOZE WITH MOTTLES OF CALC OOZE WITH Mn MICRONODULES
10 YR 6/4 light yellowish brown
large, very dark brown, Mn-rich burrows dominate unit 16-23 cm
somewhat unconsolidated, slightly silty lutite with scattered forams
S, irregular

26-57
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, fine, light gray mottles and burrows throughout unit
moist, slick lutite with scattered forams and pteropods
S, irregular

57-84
CALC OOZE
10 YR 5/2 grayish brown
extensive, very pale brown mottling 73-82 cm
moist, slick lutite with scattered forams
end of core

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

Ship: CHAIN  Core No. 33 PG

Expedition 119  Station No. 141

Leg No. 2  Total Core Length 84 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material: Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material: Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | calc ooze | 2 | 2 | | | 25 | 5 | 55 | 3 | | 8 | | | | |
| 21 | calc ooze with Mn micronodules | 2 | 15 | | | 28 | 5 | 42 | 3 | | 5 | | | | |
| 40 | calc ooze | 1 | tr | | | 28 | 6 | 50 | 2 | | 5 | | | | 8 |
| 83 | calc ooze | 3 | 1 | | | 22 | 8 | 35 | 4 | | 15 | | | | 12 |

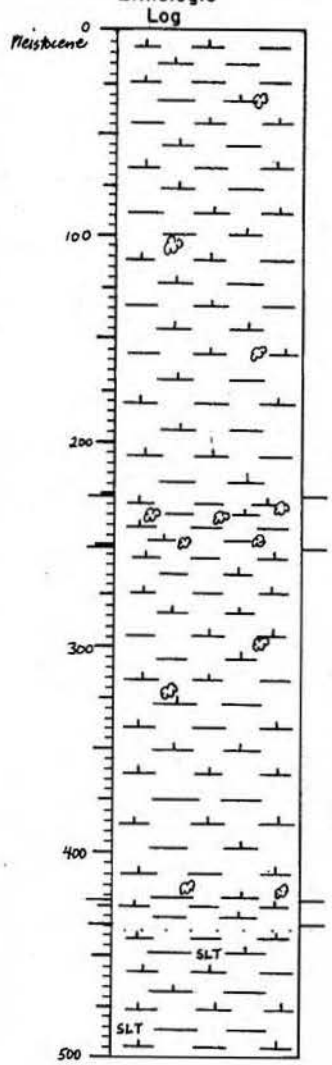


VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 143 Core No. 34 PC
Total Length 842 cm. Lat. 32° 17.3' N Long. 33° 24.9' E Depth 1108 corr. m.
Core condition EXCELLENT Date Described 10 FEB 76 by T FARMER
Physiographic location SHALLOW PART OF LEVANT PLATFORM, E.M.S.

Lithologic Log




Detailed Description

0-226
HIGHLY CALC CLAY
5 Y 4/2 and 5/2 olive grays; various hues of above colors appear as gradational bands with 5/2 more prominent below 125 cm
mottling, generally of the darker colors in the paler bands, is scattered throughout
somewhat slick, silty lutite, becomes more compact with depth; forams and pteropods are few to scattered
occasionally, faint olive yellow laminations or mottles appear in olive grays of this core
S

226-251
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
innumerable, small, light olive gray mottles throughout, and a few black (pyrite-rich) mottles strewn about
firm, slightly silty, sapropel-like lutite; pteropods and forams are scattered about
S

251-423
HIGHLY CALC CLAY
5 Y 4/2, grades to 5/2 olive grays, and 5/3 olive (310-350 cm), and back to 4/2
mottling is generally localized in small clusters in paler areas; abundant small mottles from lower unit in bottom 10 cm
firm, silty lutite, becomes more compact with depth, forams are scattered throughout; 386 cm - 5 mm disturbed silt bed
G

423-434
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray
very minor mottling
firm, somewhat sticky, slightly silty lutite with few forams
S

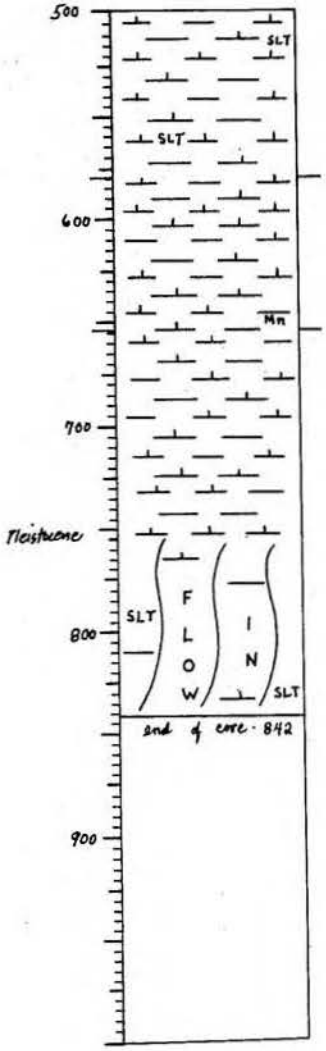
434-580
HIGHLY CALC CLAY WITH DETRITUS
5 Y 5/2 olive gray grades to 5/3 olive in lowest 25 cm
very few, subtle mottles, except in bottom 25 cm where they are abundant, small, dark olive gray
firm, slightly silty to silty lutite, forams and pteropods are few; thin sand lense at 437 cm
G

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 143 Core No. 34 PC

Lithologic Log




### Detailed Description

580-654
HIGHLY CALC CLAY
5 Y 3/2 dark olive gray, grades very gently to 4/2 olive gray
intensely burrowed and mottled in top 10 cm; below, there are generally few mottles, but innumerable, fine microlaminations: 648 cm - thin, black, Manganiferous lense extends across half of core
firm, compact, slightly silty sapropelic lutite with forams common; becomes smoother as color pales
very gradational

654-754
HIGHLY CALC CLAY
5 Y 4/2 olive gray
no mottling
firm, slick lutite with scattered silt lenses and clasts, and several detrital silts of 2-5 cm

754-842
HIGHLY CALC CLAY WITH DETRITUS
flow in of above
end of core



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

Ship: CHAIN Core No. 34 PC

Expedition 119 Station No. 143

Leg No. 2 Total Core Length 842 cm

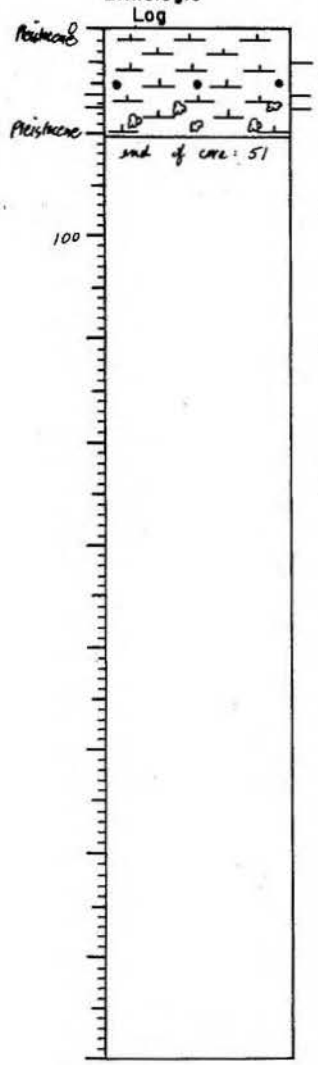
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | highly calc clay | 10 | | | | 62 | tr | 18 | | | 10 | | | | |
| 100 | highly calc clay | 10 | | | | 61 | tr | 10 | 1 | | 18 | | | | |
| 188 | highly calc clay | 10 | tr | | | 64 | tr | 15 | 1 | | 10 | | | | |
| 240 | calc ooze/ pyrite | | | | | 15 | | 35 | | | | | | | 50 |
| 243 | highly calc clay | tr | | | | 75 | 1 | 20 | tr | | 2 | | | | 2 |
| 340 | highly calc clay | 10 | | | | 61 | 2 | 17 | 2 | | 8 | | | | |
| 430 | highly calc clay | tr | | | | 67 | 1 | 27 | tr | | 1 | | | | 4 |
| 530 | highly calc clay w/detritus | 16 | | | | 64 | tr | 10 | | tr | 10 | | | | |
| 593 | highly calc clay | | | | | 70 | 1 | 25 | tr | | tr | | | | 4 |
| 648 | Mn micronodules | tr | 100? | | | tr | | tr | | | tr | | | | |
| 698 | highly calc clay | 10 | tr | | | 72 | tr | 3 | | | 13 | | | | 2 |
| 740 | detritus | 83 | | | | 2 | | tr | | | 15 | | | | |
| 841 | highly calc clay with detritus | 16 | tr | | | 61 | tr | tr | | | 22 | | | | 1 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 143 Core No. 34 PG
Total Length 51 cm. Lat. 32° 17.3'N Long. 33° 24.9'E Depth 1108 corr. m.
Core condition EXCELLENT Date Described 10 Feb 76 by T FARMER
Physiographic location SHALLOW PART OF LEVANT PLATFORM, EMS

Lithologic Log




### Detailed Description

0-15
CALC OOZE
10 YR 5/3 brown, becomes somewhat paler with depth
subtle marbling between hues of brown
somewhat unconsolidated, slightly silty lutite, with scattered pteropods and forams
G

15-30
CALC OOZE AND CALC OOZE WITH Mn MICRONODULES
10 YR 6/3 pale brown, and 3/3 several hues of dark brown; the two colors are mixed and marbled; pale brown is dominant and dark brown is Mn rich marbling
slightly silty lutite with scattered forams
G

30-37
CALC OOZE
10 YR 5/2 grayish brown, grades to 4/2 dark grayish brown
small, light brownish gray mottles are common in bottom near lower unit
slickish, slightly silty lutite with few forams
S

37-51
CALC OOZE
5 Y 3/2 dark olive gray
innumerable, small, light brownish gray mottles, and several larger ones scattered about; a large burrow from above extends several cms into this unit; a well-preserved lamination in same color as mottling is present at 48.5 cm
slightly silty, sapropel-like lutite, forams vary from few to abundant
end of core



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

Ship: CHAIN Core No. 34 PG
Expedition 119 Station No. 134
Leg No. 2 Total Core Length 50 cm

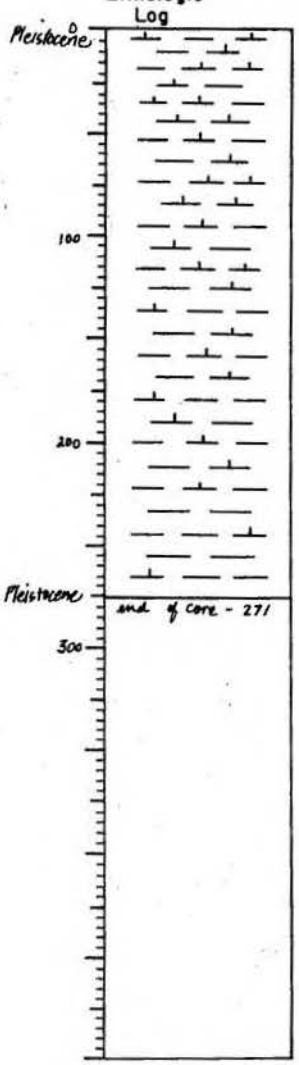
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze | tr | tr | | | 30 | tr | 66 | 1 | | 3 | | | | |
| 25 | calc ooze w/Mn micronodules | tr | 15 | | | 36 | tr | 45 | tr | | 4 | | | | |
| 49 | calc ooze | tr | | | | 65 | tr | 30 | 1 | | 2 | | | | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 145 Core No. 1 KC
Total Length 271 cm. Lat. 31° 51.87'N Long. 32° 33.6'E Depth 348 corr. m.
Core condition EXCELLENT Date Described 13 Feb 76 by T FARMER
Physiographic location BARDWILL ESCARPMENT off PORT SAID, EMS.

Lithologic Log




### Detailed Description

0-271
HIGHLY CALC CLAY GRADES TO SLIGHTLY CALC CLAY
2.5 Y 4/2 dark grayish brown grades very smoothly to 3/2 very dark grayish brown (~ 200 cm)
no mottling
silty, unconsolidated lutite grades gently to a slick, smooth lutite below ~100 cm; several sea urchin fragments are present at 23 cm
end of core



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

Ship: CHAIN Core No. 1 KC
Expedition 119 Station No. 145
Leg No. 2 Total Core Length 271 cm

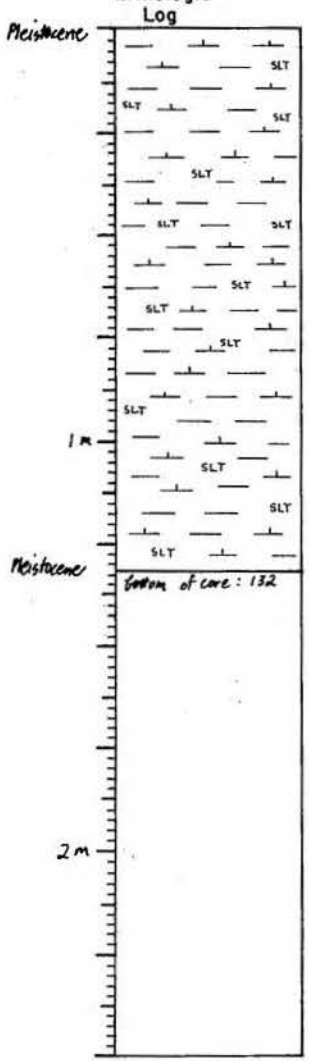
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | highly calc clay | 2 | 1 | | | 71 | 1 | 16 | 2 | | 7 | | | tr | tr |
| 100 | highly calc clay | 1 | tr | | | 72 | 1 | 23 | tr | | 3 | | | | tr |
| 200 | calc clay | tr | | | | 91 | tr | 8 | tr | | 1 | | | | tr |
| 270 | slightly calc clay | tr | 4 | | | 93 | tr | tr | | | 2 | | | | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 154 Core No. 8 GC
Total Length 132 cm. Lat. 31° 45.5' N Long. 32° 01.1' E Depth 50 corr m.
Core condition excellent Date Described 23 Sept '75 by H. Farmer
Physiographic location CONTINENTAL SHELF NNW OF PORT SAID, EGYPT : EASTERN MED.

Lithologic Log




### Detailed Description

0-132
HIGHLY CALC CLAY WITH DETRITUS
10 YR 3/3 dark brown
no mottling
very uniform slick lutite, few bioclastic grains
end of core



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

Ship: CHN Core No. 8 GC
Expedition 119 Station No. 154
Leg No. 2 Total Core Length 132 cm

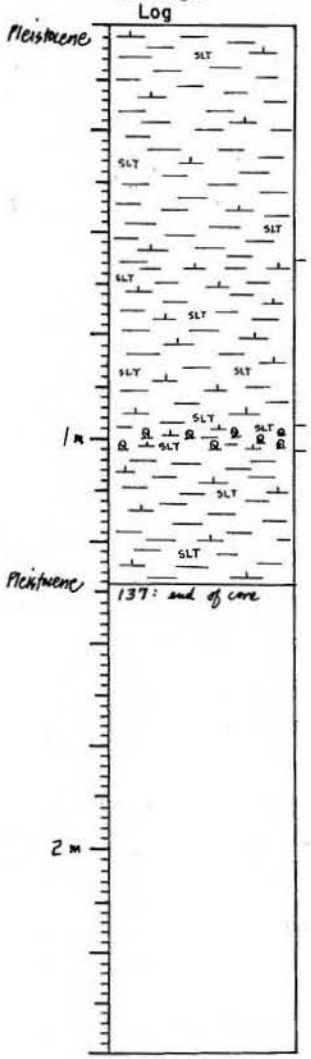
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains / opaques | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | highly calc clay w/detritus | 11 / 6 | | | | 65 | tr | 1 | | | 17 | | tr | tr | |
| 65 | highly calc clay w/detritus | 15 / 5 | | | | 60 | tr | tr | | | 20 | | | | tr |
| 131 | highly calc clay w/detritus | 12 / 4 | | | | 60 | 2 | 2 | | | 20 | | | | tr |
| | | grain size of detritus increases with depth | | | | | | | | | | | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 156 Core No. 9 GC
Total Length 137 cm. Lat. 31° 46.1' N Long. 31° 47.2' E Depth 50 corr. m.
Core condition excellent Date Described 24 Sept '75 by H. FREMER
Physiographic location Continental Shelf NW of Port Said, Egypt : Eastern Med.

Lithologic Log




### Detailed Description

0-57
CALC CLAY
10 YR 3/3 dark brown
no mottling
soft, slick, slightly silty lutite with few forams - occasionally concentrated
G

57-97
HIGHLY CALC CLAY WITH DETRITUS
2.5 Y 3/2 very dark gray brown
no mottling
slightly silty lutite, scattered forams
65-68 sharp band of above unit
G

97-103
SHELL HASH IN HIGHLY CALC CLAY WITH DETRITUS
2.5 Y 3/2 very dark gray brown (lutite fraction)
no mottling
shell hash in lutite matrix
large rounded limestone fragment, 2 x 3 cm (in working half)
S

103-137
CALC CLAY
5 Y 3/2 dark olive gray
no mottling
slightly silty lutite
103-111 large disturbed section with 1/2 of core missing; 133-134 shell hash
end of core



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

Ship: CHN Core No. 9 GC
Expedition 119 Station No. 156
Leg No. 2 Total Core Length 137 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains / opaques | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc clay | 8 / 5 | | | | 78 | tr | 1 | | | 8 | | | tr | |
| 72 | highly calc clay w/detritus | 14 / 3 | | | | 57 | 3 | 2 | tr | | 20 | | | tr | 1 |
| 136 | calc clay | 8 / 5 | | | | 80 | tr | 1 | | | 6 | | | | tr |

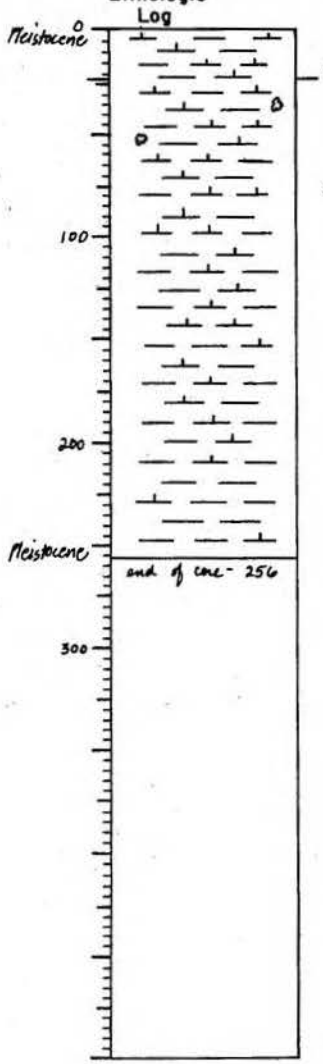
673

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 161 Core No. 2 KC
Total Length 256 cm. Lat. 32° 03.7' N Long. 31° 57.6' E Depth 505 corr. m.
Core condition EXCELLENT Date Described 13 Feb 76 by T FARMER
Physiographic location EAST. MED. SEA, NILE CONE, EGYPTIAN CONTINENTAL SHELF

Lithologic Log




### Detailed Description

0-23
HIGHLY CALC CLAY
5 Y 4/3 olive
homogeneous throughout
slick, slightly silty lutite with very few forams
S, mottled contact

23-256
HIGHLY CALC CLAY GRADES TO SLIGHTLY CALC CLAY
5 Y 5/3 olive grades gently to 2.5 Y 4/2 dark grayish brown (~ 90 cm), followed by 3/2 very dark grayish brown
small, olive mottles are scattered from upper contact down to ~60 cm
slick, slightly silty lutite, gently becomes slicker, with very little silt: there are few forams above ~ 110 cm, but they are scattered about in varying abundance below that
end of core

674

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

Ship: CHAIN Core No. 2 KC
Expedition 119 Station No. 161
Leg No. 2 Total Core Length 256 cm

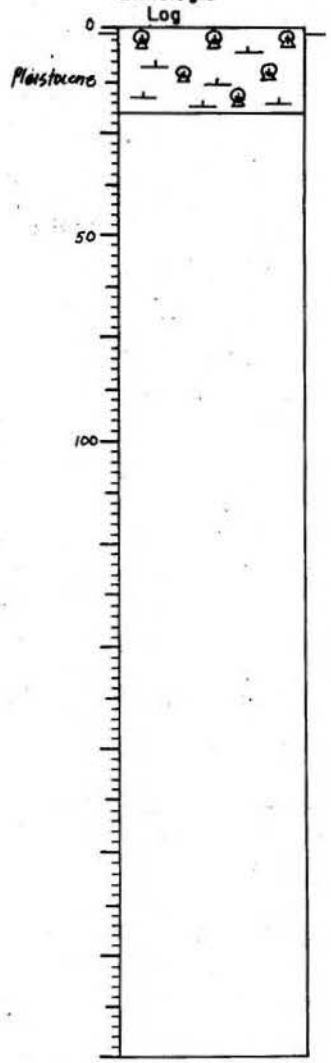
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | highly calc clay | 2 | 1 | | | 72 | tr | 19 | 1 | | 5 | tr | | tr | |
| 50 | highly calc clay | 2 | | | | 68 | 1 | 21 | 1 | | 7 | | | | |
| 150 | highly calc clay | tr | | | | 82 | tr | 16 | tr | | 2 | | | | tr |
| 255 | slightly calc clay | tr | | | | 93 | tr | 4 | | | 1 | | | | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg 2 Sta. 166 Core No. 10 GC
Total Length 20 cm. Lat. 31° 45.3' N Long. 31° 34.8' E Depth 44 corr. m.
Core condition EXCELLENT Date Described 10 Feb 76 by T. FARMER
Physiographic location DAMIETTA BRANCH of NILE CONE, EAST. MED. SEA

Lithologic Log




### Detailed Description

0-1
CALC OOZE
no mottling
shell hash of well-preserved shells up to 1 cm
S
1-20
CALC OOZE
10 YR 3/2 very dark grayish brown
no mottling
shell hash with small amount of lutite matrix, lutite % increases in bottom 3 cm
end of core



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

Ship: CHAIN Core No. 10 GC
Expedition 119 Station No. 166
Leg No. 2 Total Core Length 20 cm

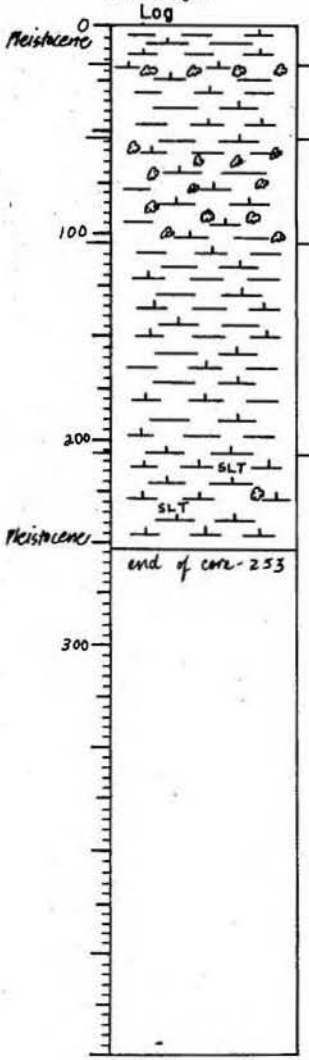
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 19 | calc ooze | 6 | | | | 60 | 2 | 18 | 8 | | 10 | | | tr | tr |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg 2 Sta. 183 Core No. 3KC
Total Length 253 cm. Lat. 32° 08.2' N Long. 30° 58.0' E Depth 508 corr. m.
Core condition EXCELLENT Date Described 13 Feb 76 by T FARMER
Physiographic location EAST. MED. SEA, NILE CONE, EGYPTIAN CONTINENTAL SHELF

Lithologic Log




### Detailed Description

0-18
CALC CLAY
2.5 Y 4/2 dark grayish brown
homogeneous, save slight darkening with depth
firm, slightly silty lutite with very few forams
S, mottled

18-53
HIGHLY CALC CLAY
10 YR 5/2 grayish brown and 2.5 Y 4/2 dark grayish brown
extensive, dark grayish brown intermottling at upper unit contact
compact, slightly silty lutite with a few forams
G, mottled

53-105
CALC CLAY
2.5 Y 3/2 very dark gray brown
innumerable, fine, light grayish brown burrows and mottles throughout the sapropel
compact, somewhat mulchy, slightly silty lutite with very few forams
extremely well-preserved, large pteropod test found at 83 cm (removed from working half)
S

105-207
CALC CLAY
5 Y 3/2 dark olive gray grades to 2.5 Y 3/2 very dark gray brown
virtually homogeneous throughout; only a few, faint, scattered, irregular mottles are found
very slightly silty lutite
very sharp, inclined 12.5°

207-253
CALC OOZE WITH DETRITUS
5 Y 5/2 olive grades to 4/2 olive gray
scattered, faint, fine, light olive gray (sapropel-like) burrows
firm, compact, silty lutite grades to stiffer, even more compact, extremely silty lutite
end of core



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

Ship: CHAIN Core No. 3 KC
Expedition 119 Station No. 183
Leg No. 2 Total Core Length 253 cm

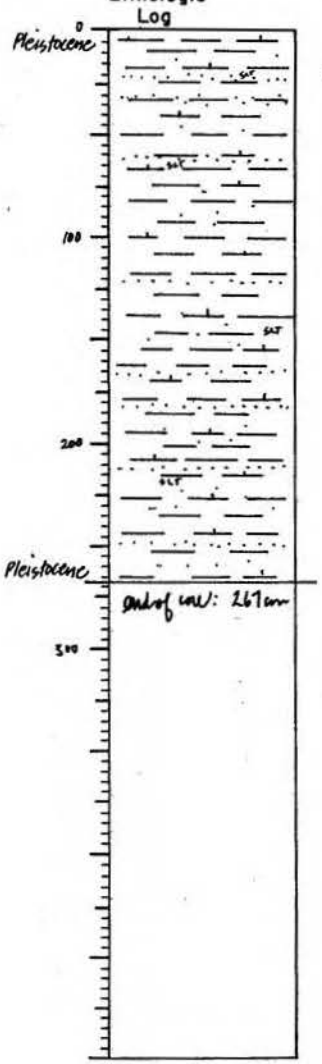
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc clay | tr | 3 | | | 91 | tr | 5 | | | 1 | | | | |
| 30 | highly calc clay | tr | | | | 74 | tr | 24 | tr | | 2 | | | | |
| 66 | calc clay | tr | | | | 88 | tr | 8 | tr | | 3 | | | | 1 |
| 145 | calc clay | 3 | | | | 91 | tr | 2 | | | 4 | | | | |
| 208 | calc ooze with detritus | 17 | | | | 12 | 1 | 2 | 4 | | 64 | | | | |
| 252 | calc ooze | 5 | | | | 36 | 1 | 4 | 2 | | 52 | | | tr | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 185 Core No. 4KC
Total Length 267 cm. Lat. 31°36.9' N Long. 30°16.6'E Depth 21 m.corr.
Core condition EXCELLENT Date Described 12FEB76 by J Bada
Physiographic location NILE CONE .. OFF ALEXANDRIA — CONTINENTAL SHELF

Lithologic Log




### Detailed Description

0-267
SLIGHTLY CALC CLAY WITH DETRITUS AND BEDS OF DETRITUS
10 YR 4/2 dark grayish brown
slightly darker, silty laminations at the intervals below; faint, irregular, dark gray mottling 0-110 cm
smooth, compact lutite with numerous, inclined, silty beds and lenses; the dominant ones: 18-19 cm, 28-29 cm, 38-39 cm, 46-47 cm, 62-65 cm, 67-68 cm, 121-122 cm, 166-167 cm, 181-182 cm, 210-211 cm, 249-250 cm
end of core



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

Ship: CHAIN Core No. 4 KC
Expedition 119 Station No. 185
Leg No. 2 Total Core Length 267 cm

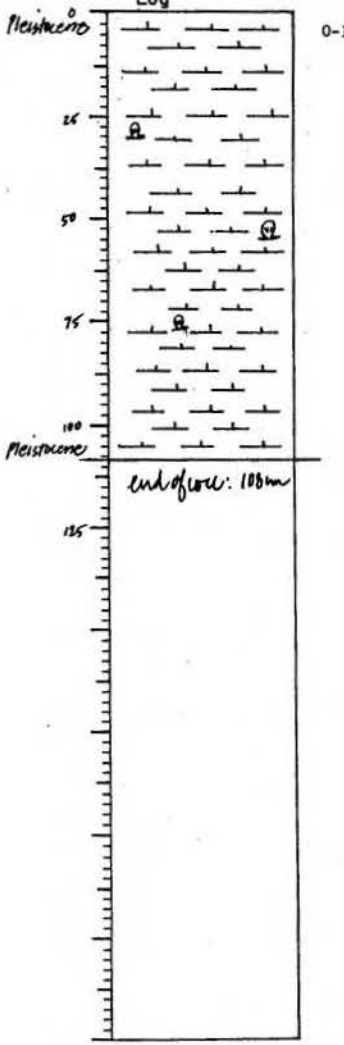
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | slightly calc clay w/detritus | 16 | tr | | | 77 | | 3 | | | 4 | | | tr | |
| 19 | detritus | 80 | tr | | 4 | 11 | tr | tr | | | 5 | | | | |
| 63 | slightly calc clay/detritus | 55 | | | 6 | 33 | tr | tr | | | 3 | | | 3? | |
| 100 | slightly calc clay w/detritus | 15 | | | 5? | 75 | | 1 | | | 2 | | | 2 | |
| 200 | slightly calc clay | 6 | | | tr | 88 | | 1 | | | 3 | | | tr | 2 |
| 251 | slightly calc clay w/detritus | 22 | tr | | tr | 72 | tr | 1 | | | 3 | tr | | tr | 2 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship CHAIN Cruise 119 Leg II Sta. 187 Core No. 5KC
Total Length 108 cm. Lat. 31° 16.0' N Long. 29° 44.9' E Depth 60 m. corr.
Core condition EXCELLENT Date Described 18 FEB 76 by [illegible]
Physiographic location NILE CONE: CONTINENTAL SHELF OFF ALEXANDRIA.

Lithologic Log




### Detailed Description

0-108
CALC OOZE
5 Y 7/1 light gray, grades to 2/2 light gray
homogeneous throughout
stiff, compact, silty lutite with scattered forams, shell fragments (pelecypod ) and lithified, white, calcareous lumps; a few well preserved coral structures are also present
end of core



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

Ship: CHAIN Core No. 5 KC
Expedition 119 Station No. 187
Leg No. 2 Total Core Length 108 cm

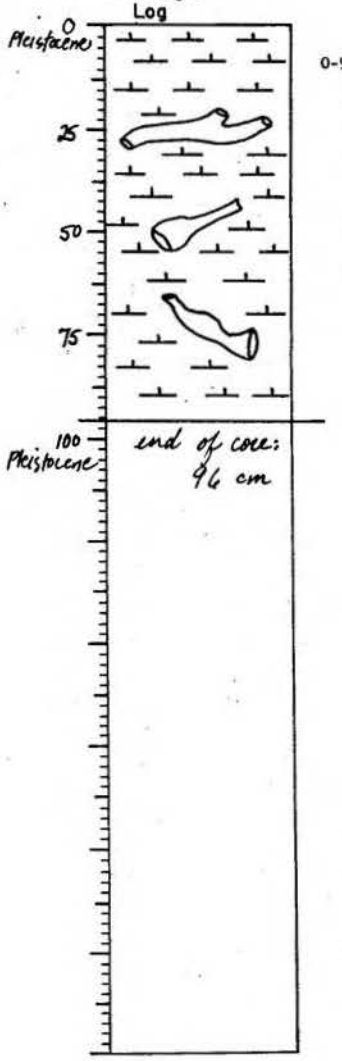
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | 2 | | | | 36 | 2 | 4 | 1 | tr | 55 | | | | |
| 50 | calc ooze | 3 | | | | 39 | 1 | 3 | 1 | tr | 50 | | | | 3 |
| 108 | calc ooze | 2 | | | | 34 | 3 | 2 | 2 | tr | 55 | | | | 2 |

## VISUAL CORE DESCRIPTION



Ship CHAIN Cruise 119 Leg II Sta. 187 Core No. 12GC
Total Length 96 cm. Lat. 31°16.0' N Long. 29° 44.9' E Depth 60 m. corr.
Core condition EXCELLENT Date Described 1 Sept 76 by H. FARMER
Physiographic location EGYPTIAN CONTINENTAL SHELF - NILE CONE

Lithologic Log




### Detailed Description

0-96
CALC OOZE
10 YR 7/1 light gray
several medium size, pale marbles are apparent from 48-61 cm
firm, plastic, silty lutite with foram-size, biogenic material common; several small shells (pelecypods) are scattered about
3 large pieces of coral span the core liner at 23-27 cm, 53-55 cm, and 73-78 cm

end of core



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

Ship: CHN Core No. 12 GC
Expedition 119 Station No. 187
Leg No. II Total Core Length 96 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc. ooze | 1 | | | | 60 | 2 | 2 | | | 35 | tr | | tr | |
| 50 | calc ooze | 1 | | | | 54 | 2 | 2 | 1 | | 40 | | | tr | tr |
| 95 | calc ooze | 1 | | | | 60 | 2 | 2 | tr | | 35 | | | | tr |

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:32 JUN 03,'77 ********** **WHOI**

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHN | 119 | 2 | 0001 | 0000 | 6 | 75 322 | 31 13.6'N | 29 46.7'E | 1 | 142.19 | 0001 | 41. | 0. | 142G | 24 | 3369 | 0 | |
| CHN | 119 | 2 | 0002 | 0000 | 6 | 75 322 | 31 15.9'N | 29 45.1'E | 1 | 142.19 | 0002 | 63. | 0. | 142G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0003 | 0000 | 6 | 75 322 | 31 19.7'N | 29 43.3'E | 1 | 142.19 | 0003 | 223. | 0. | 036G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0004 | 0000 | 6 | 75 322 | 31 22.2'N | 29 50.6'E | 1 | 142.19 | 0004 | 125. | 0. | 050G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0005 | 0000 | 6 | 75 322 | 31 20.7'N | 29 53.0'E | 1 | 142.19 | 0005 | 56. | 0. | 228G | 24 | 3369 | 0 | |
| CHN | 119 | 2 | 0006 | 0000 | 6 | 75 322 | 31 18.2'N | 29 55.7'E | 1 | 142.19 | 0006 | 44. | 0. | 021G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0007 | 0000 | 6 | 75 322 | 31 16.7'N | 29 56.8'E | 9 | 142.19 | 0007 | 25. | 0. | 095G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0008 | 0000 | 6 | 75 322 | 31 20.0'N | 29 57.2'E | 3 | 142.19 | 0008 | 43. | 0. | 142G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0009 | 0000 | 6 | 75 322 | 31 23.9'N | 30 1.8'E | 1 | 142.10 | 0009 | 33. | 0. | 069G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0030 | 0000 | 6 | 75 327 | 31 31.8'N | 29 58.4'E | 3 | 142.19 | 0010 | 136. | 0. | 200G | 24 | 3369 | 0 | |
| CHN | 119 | 2 | 0031 | 0000 | 6 | 75 328 | 31 29.5'N | 30 1.0'E | 3 | 141.10 | 0011 | 73. | 0. | 285G | 24 | 4469 | 0 | |
| CHN | 119 | 2 | 0032 | 0000 | 6 | 75 328 | 31 26.8'N | 30 4.5'E | 3 | 141.10 | 0012 | 30. | 0. | 015G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0033 | 0000 | 6 | 75 328 | 31 24.3'N | 30 7.8'E | 3 | 141.10 | 0013 | 15. | 0. | 280G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0034 | 0000 | 6 | 75 328 | 31 21.7'N | 30 11.3'E | 3 | 141.10 | 0014 | 14. | 0. | 035G | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0035 | 0000 | 6 | 75 328 | 31 18.1'N | 30 11.1'E | 1 | 141.10 | 0015 | 10. | 0. | 342G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0036 | 0000 | 3 | 75 328 | 31 13.6'N | 29 46.7'E | 1 | 142.19 | 0001 | 6. | 0. | 156G | 2 | 8469 | 0 | |
| CHN | 119 | 2 | 0038 | 0000 | 3 | 75 328 | 31 29.8'N | 30 35.0'E | 1 | 141.10 | 0002 | 6. | 0. | 297G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0039 | 0000 | 3 | 75 328 | 31 33.3'N | 30 33.5'E | 1 | 141.10 | 0003 | 9. | 0. | 364G | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0041 | 0000 | 3 | 75 328 | 31 37.1'N | 30 31.7'E | 3 | 141.10 | 0004 | 17. | 0. | 342G | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0042 | 0000 | 3 | 75 328 | 31 41.0'N | 30 30.2'E | 3 | 141.10 | 0005 | 29. | 0. | 342G | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0045 | 0000 | 3 | 75 328 | 31 45.0'N | 30 28.3'E | 1 | 141.10 | 0006 | 46. | 0. | 031G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0047 | 0000 | 3 | 75 328 | 31 52.4'N | 30 24.8'E | 3 | 141.10 | 0008 | 75. | 0. | 275G | 24 | 3869 | 0 | |
| CHN | 119 | 2 | 0048 | 0000 | 3 | 75 328 | 31 56.4'N | 30 23.3'E | 1 | 141.10 | 0009 | 134. | 0. | 313G | 2 | 3365 | 0 | |
| CHN | 119 | 2 | 0049 | 0000 | 6 | 75 328 | 31 53.0'N | 30 11.1'E | 3 | 141.10 | 0016 | 148. | 0. | 022G | 24 | 3369 | 0 | |
| CHN | 119 | 2 | 0050 | 0000 | 6 | 75 328 | 31 48.3'N | 30 13.2'E | 1 | 141.10 | 0017 | 60. | 0. | 018G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0051 | 0000 | 6 | 75 328 | 31 45.0'N | 30 14.0'E | 3 | 141.10 | 0018 | 53. | 0. | 100G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0052 | 0000 | 6 | 75 328 | 31 40.8'N | 30 15.0'E | 3 | 141.10 | 0019 | 38. | 0. | 065G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0053 | 0000 | 6 | 75 328 | 31 36.8'N | 30 16.8'E | 1 | 141.10 | 0020 | 24. | 0. | 053G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0054 | 0000 | 6 | 75 328 | 31 33.4'N | 30 18.3'E | 1 | 141.10 | 0021 | 8. | 0. | 054G | 24 | 2269 | 0 | |
| CHN | 119 | 2 | 0055 | 0000 | 3 | 75 328 | 31 32.6'N | 30 15.5'E | 3 | 141.10 | 0010 | 11. | 0. | 256G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0058 | 0000 | 6 | 75 329 | 31 34.7'N | 30 10.3'E | 3 | 141.10 | 0022 | 25. | 0. | 073G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0059 | 0000 | 6 | 75 329 | 31 36.9'N | 30 7.1'E | 1 | 141.10 | 0023 | 149. | 0. | 046G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0086 | 0000 | 3 | 75 4 2 | 31 50.0'N | 31 5.0'E | 3 | 141.11 | 0011 | 42. | 0. | 825G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0087 | 0000 | 3 | 75 4 2 | 31 46.0'N | 31 5.3'E | 3 | 141.11 | 0012 | 35. | 0. | 1.15 | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0089 | 0000 | 3 | 75 4 2 | 31 36.8'N | 30 57.8'E | 3 | 141.10 | 0013 | 6. | 0. | 339G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0090 | 0000 | 6 | 75 4 2 | 31 33.7'N | 30 46.2'E | 3 | 141.10 | 0024 | 8. | 0. | 155G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0091 | 0000 | 6 | 75 4 2 | 31 36.5'N | 30 43.7'E | 3 | 141.10 | 0025 | 13. | 0. | 087G | 24 | 2269 | 0 | |
| CHN | 119 | 2 | 0093 | 0000 | 6 | 75 4 2 | 31 41.3'N | 30 41.4'E | 1 | 141.10 | 0026 | 22. | 0. | 085G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0094 | 0000 | 6 | 75 4 2 | 31 44.3'N | 30 40.4'E | 3 | 141.10 | 0027 | 37. | 0. | 170G | 24 | 8365 | 0 | |
| CHN | 119 | 2 | 0096 | 0000 | 6 | 75 4 2 | 31 52.5'N | 30 36.2'E | 1 | 141.10 | 0029 | 75. | 0. | 170G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0097 | 0000 | 6 | 75 4 2 | 31 55.3'N | 30 36.2'E | 1 | 141.10 | 0030 | 103. | 0. | 046G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0098 | 0000 | 6 | 75 4 2 | 31 59.1'N | 30 36.3'E | 1 | 141.10 | 0031 | 157. | 0. | 100G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0099 | 0000 | 6 | 75 4 2 | 31 59.7'N | 30 48.2'E | 9 | 141.10 | 0032 | 139. | 0. | 061G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0100 | 0000 | 6 | 75 4 2 | 31 55.3'N | 30 50.0'E | 1 | 141.10 | 0033 | 73. | 0. | 140G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0101 | 0000 | 6 | 75 4 2 | 31 52.0'N | 30 51.8'E | 1 | 141.10 | 0034 | 47. | 0. | 103G | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0102 | 0000 | 6 | 75 4 2 | 31 47.9'N | 30 53.4'E | 3 | 141.10 | 0035 | 39. | 0. | 018G | 24 | 2469 | 0 | |

********** STATION DATA RETRIEVAL ********** PAGE 2
********** DATE: 17:32 JUN 03,'77 ********** **WHOI**

| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHN | 119 | 2 | 0103 | 0000 | 6 | 75 4 2 | 31 44.6'N | 30 54.4'E | 3 | 141.10 | 0036 | 32. | 0. | 178G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0104 | 0000 | 6 | 75 4 2 | 31 40.0'N | 30 56.0'E | 1 | 141.10 | 0037 | 15. | 0. | 118G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0106 | 0000 | 3 | 75 4 3 | 31 38.2'N | 31 5.0'E | 3 | 141.11 | 0014 | 8. | 0. | 164G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0106 | 0000 | 3 | 75 4 3 | 31 38.2'N | 31 5.0'E | 3 | 141.11 | 0015 | 8. | 0. | 364G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0108 | 0000 | 3 | 75 4 3 | 31 42.1'N | 31 4.4'E | 3 | 141.11 | 0016 | 19. | 0. | 1.26 | 24 | 8469 | 0 | |
| CHN | 119 | 2 | 0111 | 0000 | 3 | 75 4 3 | 31 54.7'N | 31 6.3'E | 9 | 141.11 | 0017 | 61. | 0. | 1.01 | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0112 | 0000 | 3 | 75 4 3 | 31 58.2'N | 31 5.2'E | 1 | 141.11 | 0018 | 93. | 0. | 1.17 | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0113 | 0000 | 6 | 75 4 3 | 32 3.0'N | 31 4.4'E | 1 | 141.21 | 0038 | 166. | 0. | 110G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0146 | 0000 | 6 | 75 4 8 | 31 48.6'N | 32 28.7'E | 1 | 141.12 | 0039 | 92. | 0. | 027G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0147 | 0000 | 3 | 75 4 8 | 31 44.7'N | 32 26.6'E | 1 | 141.12 | 0019 | 72. | 0. | 104G | 24 | 3269 | 0 | |
| CHN | 119 | 2 | 0148 | 0000 | 3 | 75 4 8 | 31 47.3'N | 32 16.4'E | 9 | 141.12 | 0020 | 71. | 0. | 210G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0150 | 0000 | 3 | 75 4 8 | 31 55.1'N | 32 21.2'E | 1 | 141.12 | 0021 | 224. | 0. | 815G | 4 | 3269 | 0 | |
| CHN | 119 | 2 | 0151 | 0000 | 3 | 75 4 9 | 31 58.8'N | 32 9.3'E | 9 | 141.12 | 0022 | 193. | 0. | 940G | 4 | 3275 | 0 | |
| CHN | 119 | 2 | 0152 | 0000 | 3 | 75 4 9 | 31 54.6'N | 32 4.3'E | 1 | 141.12 | 0023 | 103. | 0. | 513G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0153 | 0000 | 3 | 75 4 9 | 31 50.0'N | 32 3.2'E | 1 | 141.12 | 0024 | 77. | 0. | 785G | 24 | 4479 | 0 | |
| CHN | 119 | 2 | 0154 | 0000 | 3 | 75 4 9 | 31 45.5'N | 32 1.1'E | 1 | 141.12 | 0025 | 48. | 0. | 1.07 | 24 | 2269 | 0 | |
| CHN | 119 | 2 | 0156 | 0000 | 3 | 75 4 9 | 31 46.1'N | 31 47.2'E | 1 | 141.11 | 0026 | 48. | 0. | 1.12 | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0158 | 0000 | 6 | 75 4 9 | 31 50.5'N | 31 49.7'E | 1 | 141.11 | 0041 | 75. | 0. | 067G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0162 | 0000 | 3 | 75 4 9 | 32 .0'N | 31 42.0'E | 1 | 141.21 | 0027 | 112. | 0. | 655G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0163 | 0000 | 3 | 75 4 9 | 31 56.2'N | 31 39.9'E | 1 | 141.11 | 0028 | 85. | 0. | 522G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0164 | 0000 | 3 | 75 4 9 | 31 52.6'N | 31 38.2'E | 1 | 141.11 | 0029 | 62. | 0. | 542G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0165 | 0000 | 3 | 75 4 9 | 31 48.0'N | 31 35.8'E | 1 | 141.11 | 0030 | 64. | 0. | 370G | 24 | 3269 | 0 | |
| CHN | 119 | 2 | 0166 | 0000 | 3 | 75 4 9 | 31 45.3'N | 31 34.8'E | 1 | 141.11 | 0031 | 44. | 0. | 627G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0168 | 0000 | 3 | 75 4 9 | 31 41.5'N | 31 32.8'E | 1 | 141.11 | 0032 | 28. | 0. | 370G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0169 | 0000 | 3 | 75 4 9 | 31 37.9'N | 31 30.9'E | 9 | 141.11 | 0033 | 22. | 0. | 342G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0170 | 0000 | 3 | 75 4 9 | 31 34.2'N | 31 27.6'E | 1 | 141.11 | 0034 | 11. | 0. | 342G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0172 | 0000 | 3 | 75 4 9 | 31 31.3'N | 31 26.3'E | 3 | 141.11 | 0035 | 5. | 0. | 485G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0173 | 0000 | 6 | 75 4 9 | 31 36.1'N | 31 15.0'E | 3 | 141.11 | 0044 | 9. | 0. | 095G | 24 | 8869 | 0 | |
| CHN | 119 | 2 | 0174 | 0000 | 6 | 75 410 | 31 39.7'N | 31 16.4'E | 3 | 141.11 | 0045 | 19. | 0. | 085G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0175 | 0000 | 6 | 75 410 | 31 43.6'N | 31 17.7'E | 3 | 141.11 | 0046 | 28. | 0. | 044G | 24 | 2469 | 0 | |
| CHN | 119 | 2 | 0176 | 0000 | 6 | 75 410 | 31 46.6'N | 31 19.0'E | 3 | 141.11 | 0047 | 48. | 0. | 160G | 24 | 3265 | 0 | |
| CHN | 119 | 2 | 0177 | 0000 | 6 | 75 410 | 31 50.3'N | 31 20.2'E | 3 | 141.11 | 0048 | 62. | 0. | 225G | 24 | 4465 | 0 | |
| CHN | 119 | 2 | 0178 | 0000 | 6 | 75 410 | 31 55.5'N | 31 22.5'E | 1 | 141.11 | 0049 | 72. | 0. | 121G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0179 | 0000 | 3 | 75 410 | 32 .3'N | 31 22.8'E | 1 | 141.21 | 0036 | 92. | 0. | 684G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0180 | 0000 | 3 | 75 410 | 32 1.6'N | 31 23.9'E | 1 | 141.21 | 0037 | 106. | 0. | 606G | 24 | 3365 | 0 | |
| CHN | 119 | 2 | 0182 | 0000 | 3 | 75 410 | 32 4.8'N | 31 24.9'E | 1 | 141.21 | 0038 | 186. | 0. | 627G | 24 | 2365 | 0 | |
| CHN | 119 | 2 | 0189 | 0000 | 3 | 75 411 | 31 13.3'N | 29 32.1'E | 1 | 142.19 | 0040 | 160. | 0. | 500G | 24 | 3369 | 0 | |

# NILE DELTA UNDERWAY and GRAB SAMPLES
## CHAIN 119, LEG 2

| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 1 | U/W 1 | 10 YR 7/2 light gray | 56-28-16 | 86 | .0 | 41 |
| 2 | U/W 2 | 10 YR 7/2 light gray | 42-36-22 | 83 | .3 | 63 |
| 3 | U/W 3 | 10 YR 5/3 brown | 34-32-34 | 71 | .3 | 223 |
| 4 | U/W 4 | 10 YR 6/2 light brownish gray | 25-44-31 | 71 | .5 | 125 |
| 5 | U/W 5 | 10 YR 7/1 light gray | 24-50-26 | 79 | .5 | 56 |
| 6 | U/W 6 | 10 YR 8/1 white | 94-3-3 | 90 | 1.0 | 44 |
| 7 | U/W 7 | 10 YR 5/8 yellowish brown | 99-0-1 | 92 | .1 | 25 |
| 8 | U/W 8 | 10 YR 6/2 light brownish gray | 59-23-19 | 76 | .5 | 43 |
| 9 | U/W 9 | 10 YR 5/3 brown | 96-2-2 | 70 | .1 | 33 |
| 30 | U/W 10 | 10 YR 4/3 brown | 27-40-33 | 52 | .7 | 136 |
| 31 | U/W 11 | 10 YR 3/3 dark brown | 5/58/37 | 22 | 1.1 | 73 |
| 32 | U/W 12 | 10 YR 5/3 brown | 71-21-8 | 6 | .2 | 30 |
| 34 | U/W 14 | 10 YR 4/4 dark yellowish brown | 89-7-4 | 12 | .1 | 14 |
| 35 | U/W 15 | 10 YR 5/4 yellowish brown | 99-1-0 | 4 | .0 | 10 |
| 36 | GR 1 | 10 YR 3/2 very dark grayish brown | 1-60-39 | 4 | .7 | 6 |

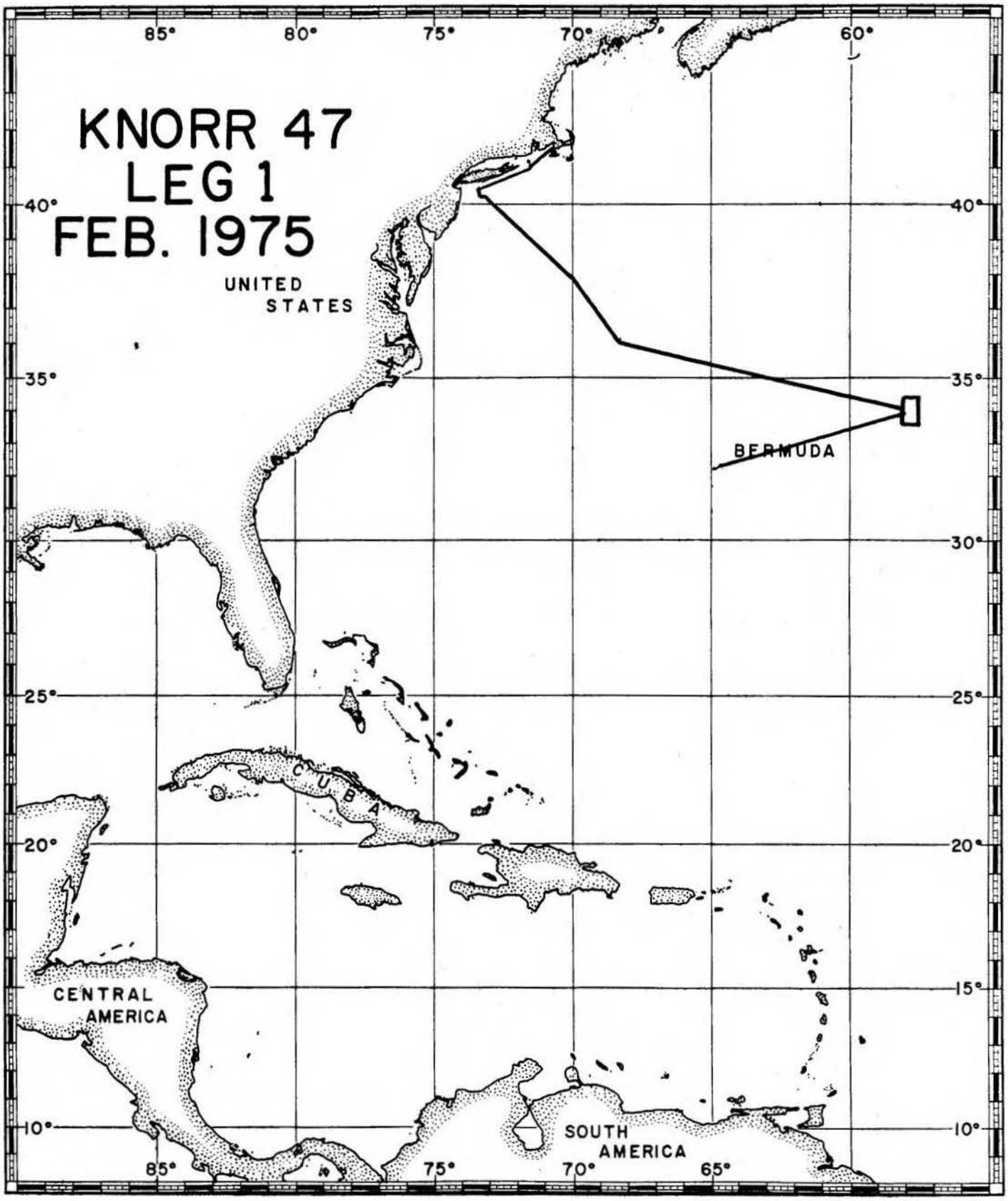
| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 38 | GR 2 | 10 YR 4/3 brown | 92-6-2 | 1 | .0 | 6 |
| 39 | GR 3 | 10 YR 3/2 very dark grayish brown | 1-59-40 | 5 | .9 | 9 |
| 41 | GR 4 | 10 YR 3/2 very dark grayish brown | 16-54-30 | 4 | .6 | 17 |
| 42 | GR 5 | 5 Y 3/2 dark olive gray | 9-56-35 | 6 | 1.0 | 29 |
| 45 | GR 6 | 10 YR 3/2 very dark grayish brown | 70-16-14 | 85 | .3 | 46 |
| 47 | GR 8 | 10 YR 4/2 very dark grayish brown | 45-29-26 | 31 | .6 | 75 |
| 48 | GR 9 | 10 YR 4/2 very dark grayish brown | 58-16-25 | 50 | .6 | 134 |
| 49 | U/W 16 | 2.5 Y 5/2 grayish brown | 46-27-27 | 48 | .6 | 148 |
| 50 | U/W 17 | 10 YR 4/4 dark yellowish brown | 94-3-2 | 88 | .3 | 60 |
| 51 | U/W 18 | 10 YR 3/2 very dark grayish brown | 5-54-41 | 12 | 1.0 | 53 |
| 52 | U/W 19 | 10 YR 3/2 very dark grayish brown | 8-67-25 | 9 | .9 | 38 |
| 53 | U/W 20 | 10 YR 3/2 very dark grayish brown | 0-31-69 | 5 | 1.4 | 24 |
| 54 | U/W 21 | 10 YR 3/2 very dark grayish brown | 1-43-56 | 2 | .9 | 8 |
| 55 | GR 10 | 10 YR 3/2 very dark grayish brown | 1-55-44 | 5 | 1.1 | 11 |

| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 58 | U/W 22 | 10 YR 4/3 brown | 59-34-7 | 2 | .1 | 25 |
| 59 | U/W 23 | 10 YR 4/2 dark gray brown | 3-70-27 | 16 | 1.1 | 149 |
| 86 | GR 11 | 10 YR 5/6 yellowish brown | 98-0-2 | 15 | .1 | 42 |
| 87 | GR 12 | 10 YR 4/2 dark grayish brown | 27-42-31 | 11 | .9 | 35 |
| 89 | GR 13 | 10 YR 3/3 dark brown | 89-7-4 | 2 | .0 | 6 |
| 90 | U/W 24 | 5 Y 7/2 light gray | 98-1-1 | 0 | .0 | 8 |
| 91 | U/W 25 | 10 YR 3/2 very dark gray brown | 36-48-16 | 4 | .5 | 13 |
| 93 | U/W 26 | 10 YR 6/4 light yellowish brown | 97-1-2 | 2 | .0 | 22 |
| 94 | U/W 27 | 10 YR 4/4 dark yellow brown | 84-9-7 | 35 | .2 | 37 |
| 96 | U/W 29 | 10 YR 4/2 dark gray brown | 67-20-13 | 63 | .5 | 75 |
| 97 | U/W 30 | 10 YR 4/2 dark gray brown | 47-29-24 | 47 | .6 | 103 |
| 98 | U/W 31 | 10 YR 4/2 dark gray brown | 31-32-37 | 43 | .6 | 157 |
| 99 | U/W 32 | 10 YR 4/2 dark gray brown | 43-28-29 | 51 | .5 | 139 |
| 100 | U/W 33 | 10 YR 4/2 gray brown | 60-21-19 | 66 | .5 | 73 |
| 101 | U/W 34 | 10 YR 6/4 light yellow brown | 99-0-1 | 11 | .0 | 47 |
| 102 | U/W 35 | 10 YR 2.5/1 black | 30-25-45 | 8 | .7 | 39 |
| 103 | U/W 36 | 5 Y 3/2 dark olive gray | 26-43-31 | 9 | 1.0 | 32 |

| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 104 | U/W 37 | 10 YR 5/6 yellowish brown | 99-0-1 | 3 | .0 | 15 |
| 106 | GR 14 | 10 YR 4/2 dark grayish brown | 88-9-3 | 1 | .1 | 8 |
| 106 | GR 15 | 10 YR 4/2 dark grayish brown | 87-9-4 | 3 | .1 | 8 |
| 108 | GR 16 | 10 YR 4/2 dark grayish brown | 61-20-19 | 13 | .3 | 19 |
| 111 | GR 17 | 10 YR 4/2 dark grayish brown | 75-15-10 | 72 | .6 | 61 |
| 112 | GR 18 | 10 YR 5/3 brown | 91-3-5 | 76 | .3 | 93 |
| 113 | U/W 38 | 10 YR 4/2 dark gray brown | 11-28-61 | 19 | .3 | 166 |
| 146 | U/W 39 | 10 YR 4/3 brown | 82-9-9 | 83 | .0 | 92 |
| 147 | GR 19 | 10 YR 4/2 dark gray brown | 54-25-21 | 39 | .6 | 72 |
| 148 | GR 20 | 10 YR 4/2 dark gray brown | 3-40-57 | 7 | 1.0 | 71 |
| 150 | GR 21 | | | | | 224 |
| | top | 10 YR 4/3 brown | 25-42-33 | 34 | .4 | |
| | bottom | 10 YR 4/3 brown | 36-32-32 | 42 | .4 | |
| 151 | GR 22 | | | | | 193 |
| | top | 10 YR 4/3 brown | 56-23-21 | 53 | .4 | |
| | bottom | 10 YR 4/2 dark grayish brown | 6-43-51 | 18 | .8 | |
| 152 | GR 23 | 10 YR 5/3 brown | 81-7-12 | 79 | .3 | 103 |

| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 153 | GR 24 | | | | | 77 |
| | top | 10 YR 4/3 brown | | | | |
| | bottom | 10 YR 4/2 dark gray brown | 23-31-46 | 27 | .8 | |
| 154 | GR 25 | 10 YR 4/3 brown | 1-47-52 | 4 | 1.1 | 48 |
| 156 | GR 26 | 10 YR 4/2 dark gray brown | 1-44-55 | 7 | .9 | 48 |
| 158 | U/W 41 | 10 YR 4/2 dark gray brown | 52-22-26 | 58 | .0 | 75 |
| 162 | GR 27 | 10 YR 5/3 brown | 35-3-62 | 85 | .3 | 112 |
| 163 | GR 28 | | | | | 85 |
| | top | 10 YR 4/4 dark yellow brown | | | | |
| | bottom | 10 YR 4.3 brown | 75-11-14 | 77 | .4 | |
| 164 | GR 29 | 10 YR 4/4 dark yellowish brown | 91-4-5 | 76 | .2 | 62 |
| 165 | GR 30 | 10 YR 4/2 dark gray brown | 42-23-35 | 39 | .8 | 64 |
| 166 | GR 31 | 10 YR 4/2 dark gray brown | 77-10-13 | 85 | .2 | 44 |
| 168 | GR 32 | 10 YR 3/2 very dark gray brown | 4-53-43 | 5 | 1.1 | 28 |
| 169 | GR 33 | 10 YR 3/2 very dark gray brown | 10-60-30 | 5 | .8 | 22 |
| 170 | GR 34 | 10 YR 3/3 dark brown | 75-15-6 | 2 | .1 | 11 |
| 172 | GR 35 | 10 YR 3/3 dark brown | 88-9-3 | 2 | .0 | 5 |
| 173 | U/W 44 | 10 YR 4/2 dark gray brown | 92-5-2 | 2 | .0 | 9 |

| Station Number | Sample Number | Color | Sand-Silt-Clay | % $CaCO_3$ | % $C_{org}$ | Depth corr. m. |
|---|---|---|---|---|---|---|
| 174 | U/W 45 | 10 YR 4/2 dark gray brown | 16-52-32 | 5 | .7 | 19 |
| 175 | U/W 46 | 10 YR 3/2 very dark gray brown | 8-62-30 | 9 | 1.2 | 28 |
| 176 | U/W 47 | 10 YR 4/2 dark gray brown | 60-20-20 | 52 | .6 | 48 |
| 177 | U/W 48 | 10 YR 4/2 dark gray brown | 4-27-69 | 15 | .8 | 62 |
| 178 | U/W 49 | 10 YR 4/3 brown | 87-5-8 | 72 | .4 | 72 |
| 179 | GR 36 | 10 YR 4/3 brown | 83-8-9 | 81 | .3 | 92 |
| 180 | GR 37 | | | | | 106 |
| | top | 10 YR 4/3 brown | 90-5-5 | 60 | .2 | |
| | bottom | 10 YR 4/4 dark yellow brown | | | | |
| 182 | GR 38 | | | | | 186 |
| | top | 10 YR 4/3 brown | 76-11-13 | 44 | .3 | |
| | bottom | 10 YR 3/2 very dark gray brown | 57-18-25 | 30 | .7 | |
| 189 | GR 40 | 10 YR 6/3 pale brown | 72-14-14 | 80 | .3 | 160 |


KNORR 47
LEG 1
FEB. 1975
UNITED STATES
BERMUDA
CUBA
CENTRAL AMERICA
SOUTH AMERICA
85°
80°
75°
70°
60°
65°
40°
35°
30°
25°
20°
15°
10°

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:20 JUN 03,'77 ********** **WHOI**

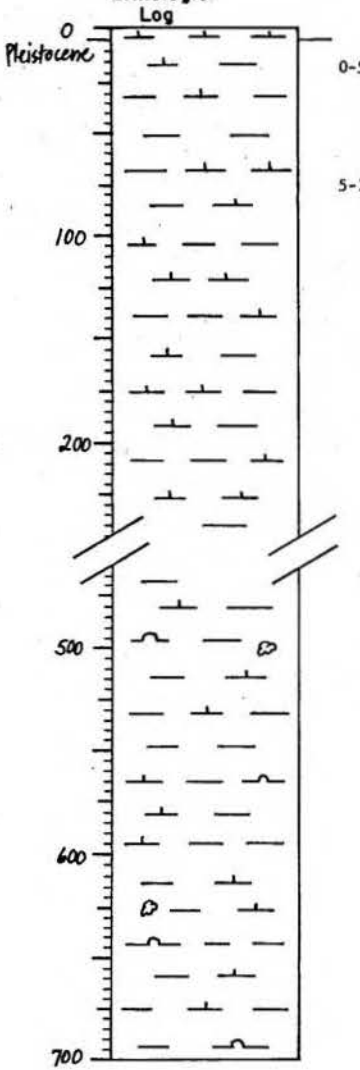
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARSDEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIOGRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KNR | 47 | 1 | 0001 | 0000 | 15 | 75 210 | 33 50.6'N | 57 33.1'W | 9 | 114.37 | 0001 | 4284. | 1155. | 0000 | 13 | 4660 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0001 | 0000 | 26 | 75 210 | 33 50.6'N | 57 33.1'W | 9 | 114.37 | 0001 | 4284. | 122. | 0000 | 13 | 3369 | 0 | |
| KNR | 47 | 1 | 0002 | 0000 | 15 | 75 211 | 33 40.8'N | 57 40.3'W | 6 | 114.37 | 0002 | 4619. | 1195. | 0000 | 13 | 4660 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0002 | 0000 | 26 | 75 211 | 33 40.8'N | 57 40.3'W | 6 | 114.37 | 0002 | 4619. | 37. | 0000 | 13 | 3339 | 0 | |
| KNR | 47 | 1 | 0004 | 0000 | 15 | 75 215 | 33 54.8'N | 57 23.3'W | 6 | 114.37 | 0004 | 4792. | 776. | 0000 | 13 | 1342 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0004 | 0000 | 26 | 75 215 | 33 54.8'N | 57 23.3'W | 6 | 114.37 | 0004 | 4792. | 62. | 0000 | 13 | 3353 | 0 | |
| KNR | 47 | 1 | 0005 | 0000 | 15 | 75 216 | 33 30.6'N | 57 49.4'W | 6 | 114.37 | 0005 | 4618. | 1189. | 0000 | 13 | 4340 | 0 | |
| | | | | | **COMMENTS** | | | NUMEROUS HYDROTROILITE LAMINATIONS | | | | | | | | | | |
| KNR | 47 | 1 | 0005 | 0000 | 26 | 75 216 | 33 30.6'N | 57 49.4'W | 6 | 114.37 | 0005 | 4618. | 68. | 0000 | 13 | 3359 | 0 | |
| KNR | 47 | 1 | 0033 | 0000 | 13 | 75 216 | 34 10.3'N | 57 11.5'W | 6 | 114.47 | 0006 | 5500. | 160. | 0000 | 13 | 1328 | 0 | |

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg I Sta. 1 Core No. 1 PC
Total Length 1155 cm. Lat. 33° 50.6'N Long. 57° 33.1'W Depth 4284 corr. m.
Core condition EXCELLENT Date Described 23 April 76 by H. Farmer
Physiographic location CREST PLATEAU - BERMUDA RISE

Lithologic Log




### Detailed Description

0-5
CALC OOZE
10 YR 6/3 pale brown
essentially no mottling
soft, slightly silty lutite, few forams
S

5-1155
CALC CLAY GRADES TO CALC OOZE
10 YR 5/3 brown; grades very gently to 5/2 grayish brown (≈ 700 cm) which pales to 6/2 light brownish gray (≈ 1060 cm)
very small, dark brown mottles are scattered fairly sparsely through the top 80 cm and very rarely through the next 400 cm; from there, slightly bigger, dark brown mottles are scattered to the end of the core
fairly slick, slightly silty lutite with only occasional forams; below 700 cm the lutite becomes somewhat firmer and less slick; a number of thin (≈ 1 cm), firmer laminations are found below 600 cm, such as: 608, 630, 732, 758, 782, 798, 822, 866, 895, 910, 933, and 970 cm. These are commonly a bit pale and sometimes are followed by somewhat darker layers such as 867-887 cm, 910-915 cm, 934-944 cm and 970-976 cm
occasional isolated, compact, yellowish brown lumps appear 125-260 cm, some with black, lithified nuclei, while occasional black fragments appear without the yellowish crust
NOTE: The initial shipboard description points out that numerous hydrotroilite layers were present between 100-315 cm immediately after splitting

end of core

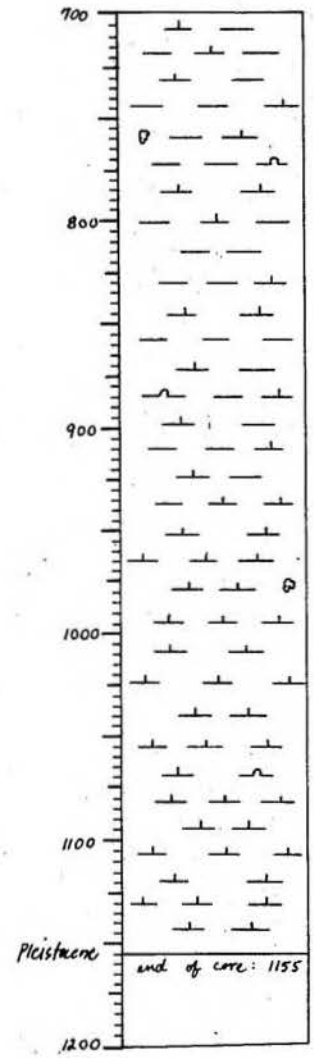


## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg 1 Sta. 1 Core No. 1 PC

Lithologic Log




### Detailed Description

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

Ship: KNR  Core No. 1 PC

Expedition 47  Station No. 1

Leg No. 1  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 | SILIC FLAG |
| 1 | calc ooze | 1 | tr | | | 38 | tr | 58 | | | 3 | tr | | tr | |
| 60 | calc clay | 7 | | | | 84 | tr | 7 | | tr | 2 | tr | | | |
| 160 | calc clay | 4 | | | | 87 | tr | 5 | | | 4 | tr | | tr | |
| 263 black frag. | | 97* | | | | | | | | | 3 | | | | |
| 360 | slightly calc-silic clay | tr | | | | 98 | | tr | | tr | 1 | 1 | | | tr |
| 460 | calc clay | 8 | | | | 85 | tr | 3 | | | 3 | 1 | | | tr |
| 560 mottle | calc clay | tr | 2** | | | 86 | tr | 5 | | tr | 5 | 2 | | | tr |
| 660 | calc-silic clay | 1 | | | | 86 | | 4 | | | 4 | 5 | | | tr |
| 760 | calc clay | 1 | | | | 86 | tr | 5 | | tr | 4 | 4 | | | tr |
| 867 stiff lam. | slightly calc clay | 1 | tr | | | 97 | | tr | | | 2 | tr | | | |
| 960 | highly calc clay | 1 | | | | 71 | tr | 24 | | | 3 | 2 | | | |
| 1060 | calc ooze | 2 | | | | 61 | tr | 35 | | | 2 | tr | | tr | |
| 1154 | calc ooze | 1 | | | | 60 | 1 | 35 | | tr | 1 | 2 | | | tr |

*unidentifiable opaque, only small % appears like Mn

**thin coating on other material



VISUAL CORE DESCRIPTION  Page 1 of 1

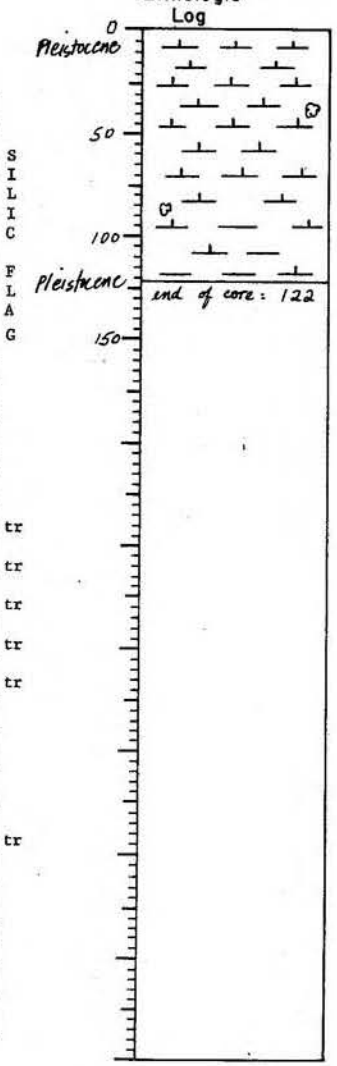
Ship KNORR Cruise 47 Leg 1 Sta. 1 Core No. 1 PG

Total Length 122 cm. Lat. 33° 50.6' N Long. 57° 33.1' W Depth 4284 corr. m.

Core condition EXCELLENT Date Described 23 Apr. 74 by T FARMER

Physiographic location PLATEAU ON BERMUDA RISE, AREA OF LAMINATED SEDIMENTS

Lithologic Log




Detailed Description

0-122
CALC OOZE
10 YR 5/3 brown, grades to 6/3 pale brown below 65 cm
a few, small, grayish-brown mottles appear clustered at the following depths: 20,49,72-82,113
somewhat firm, slightly silty lutite, forams are scattered throughout
119 cm - 3 mm bed of 10 YR 3/3 dark brown, slightly silty lutite; 120 cm - bottom 2 cm have a more crumbly texture than above sediment (slightly calc clay)
end of core

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

Ship: KNR  Core No. 1 PG

Expedition 47  Station No. 1

Leg No. 1  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 |
| 1 | calc ooze | tr | tr | | | 68 | tr | 30 | | | 2 | tr | | tr |
| 78 | calc ooze | tr | 3 | | | 60 | 2 | 34 | | | 1 | tr | | tr |
| 119 | slightly calc clay | 1 | 4 | | | 94 | tr | tr | | | 1 | tr | | |



VISUAL CORE DESCRIPTION



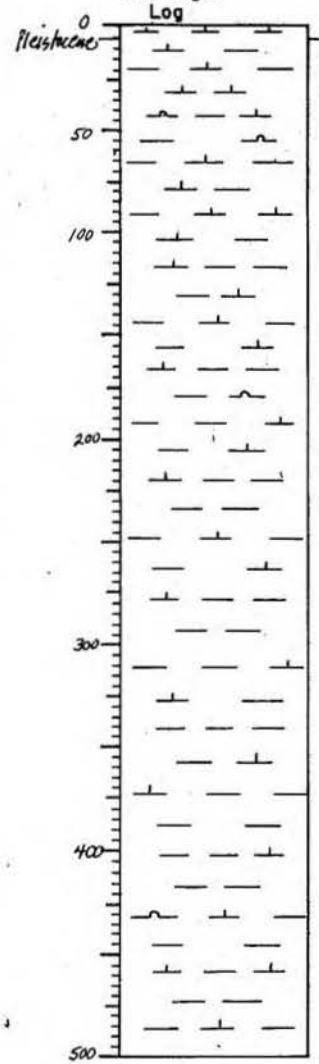
Ship KNORR Cruise 47 Leg 1 Sta. 2 Core No. 2 PC

Total Length 1179 cm. Lat. 33° 40.8'N Long. 57° 40.3'W Depth 4619 corr. m

Core condition EXCELLENT Date Described 27 April '76 by T FARMER

Physiographic location BERMUDA RISE, AREA OF ACOUSTIC LAMINATIONS

Lithologic Log




Detailed Description

0-6
CALC OOZE
10 YR 6/3, pale brown
a few, very subdued laminations appear in somewhat disturbed form
slick, slightly silty lutite; few forams are present
S

6-1179
CALC CLAY GRADES TO CALC-SILIC CLAY
gradational hues of 10 YR 4/3 and 5/3 browns, below 850 cm the color turns slowly to 5/2 grayish brown
small, dark grayish brown mottles are scattered sparcely down to 110 cm, and even less commonly from 160-285 cm; again in the lowest 2.5 m a few small clusters of mottles are present
slick, slightly silty lutite, with some variations in smoothness manifest as wide, very subtle macrolaminations: below 300 cm, the sediment is more uniform and somewhat slicker and smoother than above: very few forams are apparent
230-870 cm - isolated, rusty brown, somewhat compacted lumps, lens, and laminations are scattered sparingly; 940-1015 cm several interesting, black, 1 cm long, horizontal lying, needle-like objects were noted (pyritized ?)

NOTE: Initial shipboard descriptions indicate that numerous ( at 5-10 cm intervals), thin hydrotroilite laminations were present in this core from 230-870 cm. Many of the previously noted, rusty brown lumps and lenses correspond to these hydrotroilite layers.

end of core

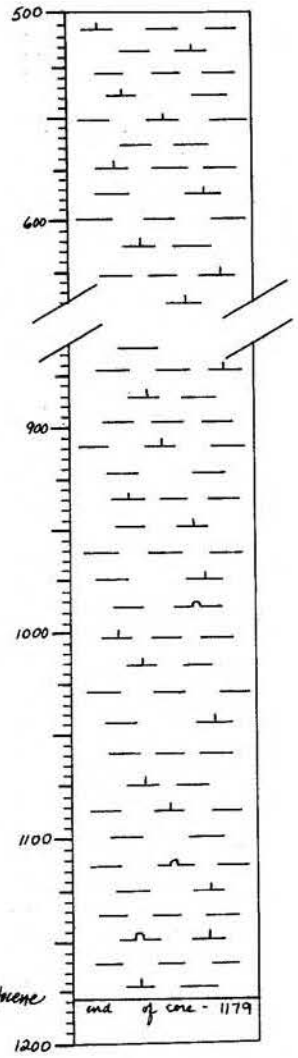
# 701

## VISUAL CORE DESCRIPTION

Page 2 of 2

Ship KNORR Cruise 47 Leg 1 Sta. 2 Core No. 2 PC

Lithologic Log




Detailed Description

# 702

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

Ship: KNR Core No. 2 PC

Expedition 47 Station No. 2

Leg No. 1 Total Core Length 1179 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | | Biogenous Material | | | | | | | | |
| | | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | PYRITE | Detrital grains** | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | SILICO FLAG |
| 1 | calc ooze | tr | 2 | tr | | | 51 | 2 | 42 | tr | | 3 | tr | | | |
| 60 | calc clay | | 2 | | | | 85 | tr | 8 | | tr | 1 | 4 | tr | | tr |
| 153 | calc clay | | 5 | | | | 88 | tr | tr | | | 1 | tr | | | |
| 250 | slightly calc clay | | 5 | | | | 92 | tr | 3 | | | tr | tr | | tr | |
| 350 | calc clay | | 6 | | | | 89 | | 5 | | | tr | tr | | | |
| 450 | calc clay | | 8 | | | | 85 | tr | 6 | | | 1 | tr | | | |
| 550 | calc clay | | 6 | | | | 89 | tr | 4 | | | 1 | tr | | | |
| 650 | calc clay | | 4 | | | | 89 | tr | 5 | | | 2 | tr | | tr | |
| 751 | unfoss. clay | | | | | | 100* | | tr | | | tr | tr | | | |
| 848 | calc-silic clay | | 4 | | | | 85 | tr | 3 | | | 3 | 5 | | tr | tr |
| 950 | calc-silic clay | | 5 | | | tr | 76 | tr | 8 | | | 4 | 7 | | | tr |
| 961+ | pyrite | 100 | | | | | | | | | | | | | | |
| 1050 | calc-silic clay | | 4 | | | | 71 | tr | 12 | | | 5 | 8 | tr | tr | tr |
| 1178 | calc-silic clay | | 3 | | | | 79 | | 4 | | | 4 | 8 | 1 | | 1 |

*virtually all of this material has some sort of oxidized, rusty (Mn?) coating

**most of the detritus is very fine silt

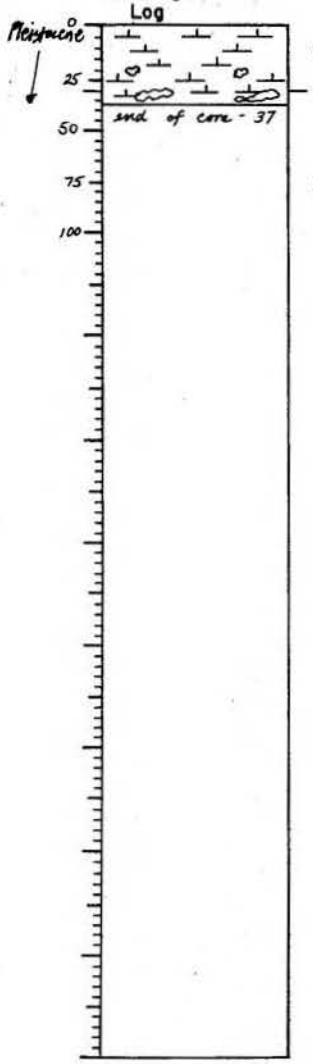
+black, needle-like object

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 47 Leg 1 Sta. 2 Core No. 2 PG
Total Length 37 cm. Lat. 33° 40.8' N Long. 57° 40.3' W Depth 4619 corr. m.
Core condition EXCELLENT Date Described 27 April 74 by T FARMER
Physiographic location BERMUDA RISE, AREA OF ACOUSTIC LAMINATIONS

Lithologic Log




### Detailed Description

0-30
CALC OOZE
10 YR 5/3
homogeneous, except for thin, dark grayish brown mottling from 19-21 cm
slick lutite; a few forams are scattered throughout
S

30-37
CALC OOZE
10 YR 6/3 pale brown
two large, irregular patches of brown sediment are mixed in the upper 5 cm of this unit
less slick, slightly silty lutite; some forams are present
end of core



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

Ship: KNORR Core No. 2 PG
Expedition 47 Station No. 2
Leg No. 1 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 |
| 1 | calc ooze | tr | tr | | | 33 | 1 | 65 | | | 1 | tr | | tr |
| 36 | calc ooze | tr | tr | | | 49 | tr | 50 | | | 1 | tr | | tr |

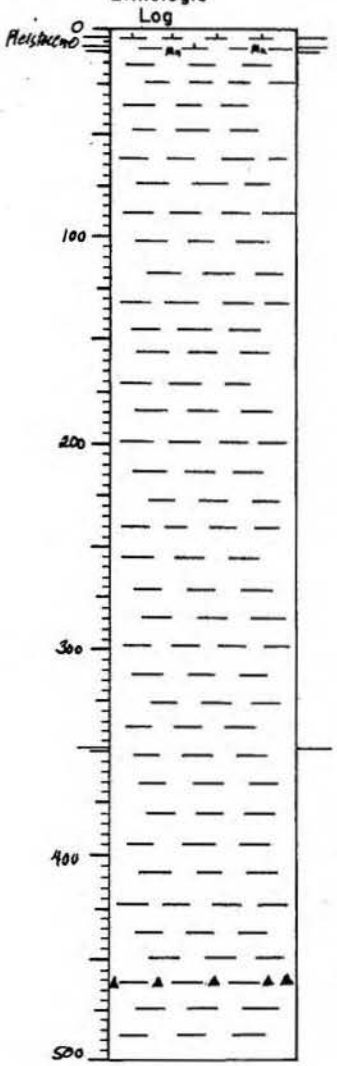
# 705

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg I Sta. 4 Core No. 4-PC
Total Length 776 cm. Lat. 33° 54.8' N Long. 57° 23.3' W Depth 4792 corr. m.
Core condition EXCELLENT Date Described 4 June '76 by H. Farmer
Physiographic location Bermuda Rise

Lithologic Log




### Detailed Description

0-3
CALC OOZE
10 YR 5/3 brown
no mottling
relatively unconsolidated, slightly silty lutite, forams are common
S, but distorted

3-6
CALC OOZE
10 YR 6/4 light yellowish brown
no mottling
relatively unconsolidated, silty lutite, forams are common
very Sharp, slightly distorted

6-6.5
SLIGHTLY CALC CLAY
10 YR 5/4 yellowish brown
no mottling
slick lutite, very few forams
very Sharp, but disturbed

6.5-14
UNFOSSILIFEROUS CLAY
5 Y 6/2 and 6/3 light olive gray and olive gray
numerous compacted, elongate mottles (and possibly disturbed laminations?) of 5GY 5/1 and 4/1 greenish gray and dark greenish gray; also, a few small zones of yellow are scattered about (10-11 cm, 13 cm); and a few very small, black mottles (Mn rich) are present in this zone
generally a very slick lutite except the yellowish zones which are semi-lithified, lumpy, and not so slick
NOTE: The above 14 cm appear to be a compressed representation of as much as the top 2 meters of sediment. This most probably is a result of poor coordination of the piston such that the corer may have penetrated up to 2 meters before the piston moved and normal sampling began. However, the core cutter ( ≈ 16 cm) seems to have sampled a portion(?) of virtually all the lithologies within that interval.

14-348
UNFOSSILIFEROUS CLAY
10 YR 6/2 light olive gray
several large, irregularly shaped mottles of 5 GY 4/1 dark greenish gray are present to 50 cm; these generally show both sharp and smeared out gradational contacts with the primary color; below this large

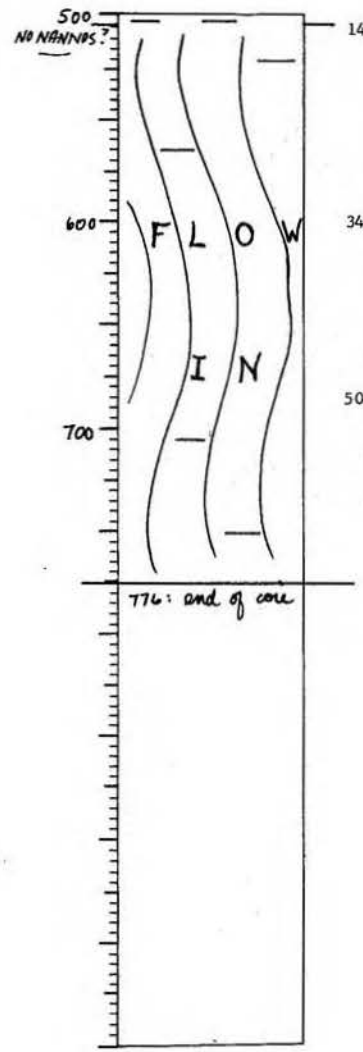
# 706

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg I Sta. 4 Core No. 4-PC

Lithologic Log




### Detailed Description

14-348 (cont.)
burrows of 5 GY 5/1 greenish gray in assorted shapes are scattered throughout; in addition, numerous, thin laminations, lenses and very small flecks of pale yellow (? oxide) are scattered throughout - for example, 51 cm, 54, 57, 58, 59, 150, 230, 233-235 cm and many more
quite firm and compact, slick and generally smooth lutite
G

348-504
UNFOSSILIFEROUS CLAY
5 Y 5/1 gray
large burrows of 5 GY 5/1 greenish gray are still present, but somewhat fewer in number; pale yellow laminations are now absent
slightly more compact, slick, quite smooth lutite
461 cm - incomplete bed (broken pavement?) of small lithified fragments or nodules (pyrite)

504-770
UNFOSSILIFEROUS CLAY
5 Y 5/1 gray
flow in of above unit

end of core

# 707

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

Ship: KNR  Core No. 4 PC

Expedition 47  Station No. 4

Leg No. 1  Total Core Length 776 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | REMARKS |
| 1 | calc ooze | 4 | tr | | | 55 | 3 | 35 | | | 3 | tr | | tr | |
| 5 | calc ooze | tr | tr | | | 44 | 1 | 55 | tr | | tr | | | | |
| 6 | slightly calc clay | 3 | tr | | | 96 | | tr | | | 1 | | | | |
| black 11 mottle | unfossiliferous clay/Mn | 2 | 30 | | | 68 | | | | | tr | | | | |
| dark 18 mottle | unfossiliferous clay | 3 | | 8* | | 89 | | | | | | | | | |
| 80 | unfossiliferous clay | 4 | | | | 96 | | | | | | | | | |
| yellow 143 oxide | unfossiliferous clay | 2 | | | | 98# | | | | | | | | | |
| 189 | unfossiliferous clay | 3 | | | | 97 | | | | | | | | | |
| 285 | unfossiliferous clay | 2* | | | | 98 | | | | | tr | | | | |
| 385 | unfossiliferous clay | 2* | | | | 98 | | | | | tr | | | | |
| 461 nodule | pyrite | | | | | | | | | | | | | | 100 |
| 495 | unfossiliferous clay | 8* | | | tr | 92 | | | | | tr | | | | |
| 770 | unfossiliferous clay | 8* | | | | 92 | | | | | | | | | |

*unidentifiable authigenic formation (?), light reddish brown clusters of crystal-like needles or dark brown, ragged fragments with crystals growing on edges

# everything has a thin coating of yellowish stain

*mostly fine silt

# 708

VISUAL CORE DESCRIPTION



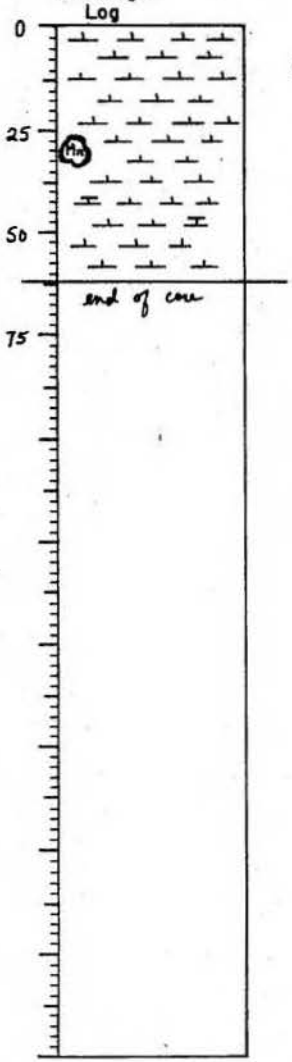
Ship KNORR Cruise 47 Leg I Sta. 4 Core No. 4-PG

Total Length 62 cm. Lat. 33° 54.8' N Long. 57° 23.3' W Depth 4792 corr. m.

Core condition EXCELLENT Date Described 4 June '76 by H. Farmer

Physiographic location Bermuda Rise

Lithologic Log




Detailed Description

0-62
CALC OOZE
10 YR 5/3 brown
40-50 cm is slightly darker brown with faint mottles of brown
slightly silty to silty lutite; forams are generally common, except abundant in numerous pockets and lenses from 33-53 cm
remarkably well-formed Mn nodule (2 x 2 cm) at 27 cm
end of core

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

Ship: KNR  Core No. 4 PG

Expedition 47  Station No. 4

Leg No. 1  Total Core Length 62 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | tr | | | 42 | 5 | 50 | | | 2 | tr | | tr |
| 61 | calc ooze | 2 | tr | | | 57 | 1 | 38 | | | 2 | | | tr |

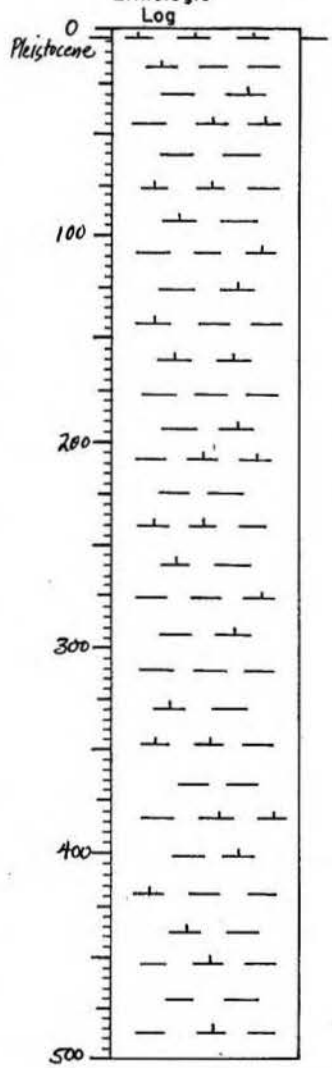


VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg I Sta. 5 Core No. 5-PC
Total Length 1173 cm. Lat. 33° 30.6' N Long. 57° 49.9' W Depth 4618 corr. m.
Core condition EXCELLENT Date Described 30 April 76 by H. Farmer
Physiographic location BERMUDA RISE

Lithologic Log




Detailed Description

0-3
CALC OOZE
10 YR 6/3 pale brown
no mottling, but some color variations appear as disturbed laminations
slick, smooth, slightly silty lutite
S, mildly disturbed

3-1173
CALC CLAY
10 YR 5/3 brown turns very gradually to 5/2 grayish brown (≈ 1000 cm)
small, very dark grayish brown mottles are clustered in small areas such as 13-25, 31-39, 59-64, 84-93, etc. down the core: Mottle-free areas are 200-610 and 650-780; a faint, reddish hue denotes subtle zones, such as: 19-26, 114-130, 170-185, 281-297, 318-327, 335-343, 393-404, 454-462, 483-496, 875-892, and 897-899 on
very slightly silty, slick lutite; generally the sediment below 200 cm appears more uniform and becomes somewhat firmer towards the bottom of the core
from 200-700 cm a number of isolated, rusty-colored, compacted lutite lumps are present: sometimes these also appear as incomplete bedding features that extend horizontally across part of the core; two black, horizontal, tube-like objects were observed at 859 cm and 1044 cm (pyritized worm burrows)
NOTE: Initial shipboard descriptions indicate that numerous black, often semi-lithified, hydrotroilite laminations were present from 200-810 cm. Many of these correspond to the compact, rusty-colored lenses and laminations noted above

end of core

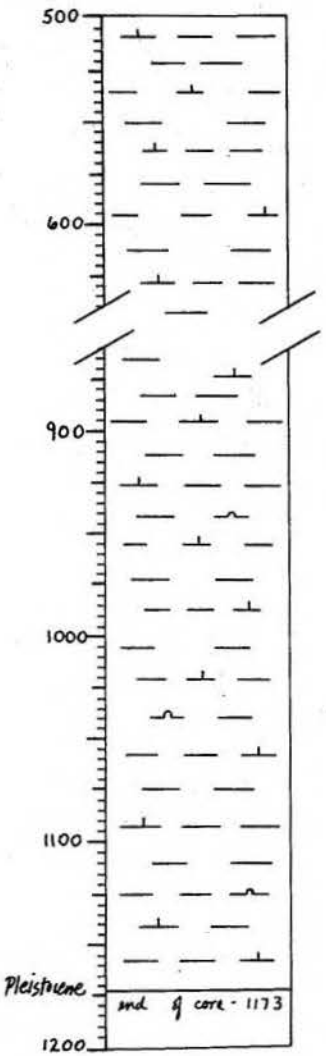
711

VISUAL CORE DESCRIPTION



Ship KNORR Cruise 47 Leg 1 Sta. 5 Core No. 5 PC

Lithologic Log




Detailed Description

712



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

Ship: KNR Core No. 5 PC

Expedition 47 Station No. 5

Leg No. 1 Total Core Length 1173 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | 56 | 3 | 40 | tr | | 1 | | | | |
| 22' | calc clay | 7 | | | | 82 | tr | 8 | | | 3 | tr | | | |
| 37 | highly calc clay | 4 | | | | 71 | 1 | 20 | | | 3 | 1 | | | |
| 125' | calc clay | 3 | | | | 89 | tr | 5 | | | 3 | tr | | | |
| 154 mottle | calc clay | 7 | 2* | | | 81 | tr | 4 | | | 6 | tr | | | |
| 227 lutite lump | unfoss. clay | 5 | | | | 95** | | | | | tr | tr | | | |
| 250 | calc clay | 9 | tr | | | 86 | tr | 3 | | | 2 | tr | | | |
| 350 | calc clay | 2 | | | | 92 | tr | 3 | | | 3 | tr | | tr | |
| 450 | calc clay | 3 | | | | 89 | tr | 5 | | | 3 | tr | | tr | |
| 458' | calc clay | 7 | | | | 85 | tr | 4 | | | 4 | tr | | tr | |
| 550 | calc clay | 1 | | | | 90 | tr | 5 | | | 4 | tr | | | |
| 650 | slightly calc clay | 6 | | | | 91 | tr | 2 | | | 1 | tr | | | |
| (cont.) | | | | | | | | | | | | | | | |

&this material is primarily fine silt size

'reddish zones

*rusty (Mn?) coating on variety of objects

**thin Mn(?) coating clay

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

Ship: KNR  Core No. 5 PC

Expedition 47  Station No. 5

Leg No. 1  Total Core Length 1173 cm

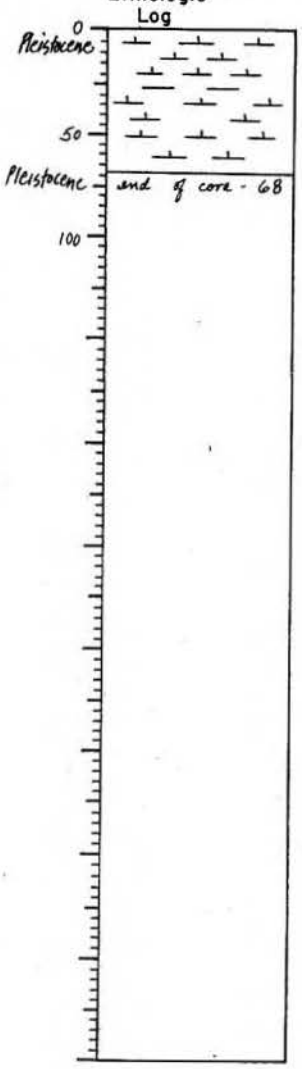
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | SILICA FLAG |
| 750 | slightly calc clay | 6 | | | | 91 | tr | 2 | | | 1 | tr | | tr | tr |
| 850 | calc clay | 3 | | | | 86 | tr | 5 | | | 6 | tr | | | |
| 950 | calc-silic clay | 1 | | | | 85 | tr | 4 | | | 4 | 7 | | | tr |
| 1050 | calc clay | tr | | | | 90 | tr | 4 | | | 4 | 2 | tr | | tr |
| 1172 | calc clay | tr | | | | 89 | tr | 8 | | | 2 | 1 | | | tr |



VISUAL CORE DESCRIPTION

Ship KNORR Cruise 47 Leg 1 Sta. 5 Core No. 5 PG
Total Length 68 cm. Lat. 33° 30.6' N Long. 57° 49.4' W Depth 4618 corr m.
Core condition Excellent Date Described 30 April '76 by H. FARMER
Physiographic location BERMUDA RISE

Lithologic Log




Detailed Description

0-86
CALC OOZE
10 YR 5/3 brown
very fine, dark grayish-brown mottles and laminations appear at 22-24 and 46-55 cm
fairly smooth, slick, slightly silty lutite, becomes more compact and drier towards the bottom
1 cm lamination of very smooth, slick lutite (10 YR 4/3) at 25 cm - highly calc clay
end of core

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

Ship: KNR  Core No. 5 PG

Expedition 47  Station No. 5

Leg No. 1  Total Core Length 68 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | tr | | | 33 | tr | 65 | | | 1 | tr | | tr |
| 25* | highly calc clay | 1 | tr | | | 82 | tr | 15 | | | 2 | tr | | tr |
| 66 | calc ooze | tr | tr | | | 25 | | 75 | | | tr | tr | | tr |

*from slick lamination



VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 47 Leg 1 Sta. 33 Core No. 6GC

Total Length 160 cm. Lat. 34° 18.28'N Long. 57° 11.51'W Depth 5500 m. corr.

Core condition EXCELLENT Date Described 22 June 76 by J. Breda

Physiographic location BERMUDA RISE.

Lithologic Log

Detailed Description

0-160
CALC OOZE GRADES TO UNFOSSILIFEROUS CLAY WITH Mn MICRONODULES
7.5 YR 5/4 brown grades to 10 YR 6/4 light yellowish brown common pale brown mottling, burrowing and marbling slightly silty lutite with extensive presence of small, lithified lumps and flecks 0-60 cm, then a few scattered forams from there to base of core

end of core

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

Ship: KNR

Core No. 6 GC

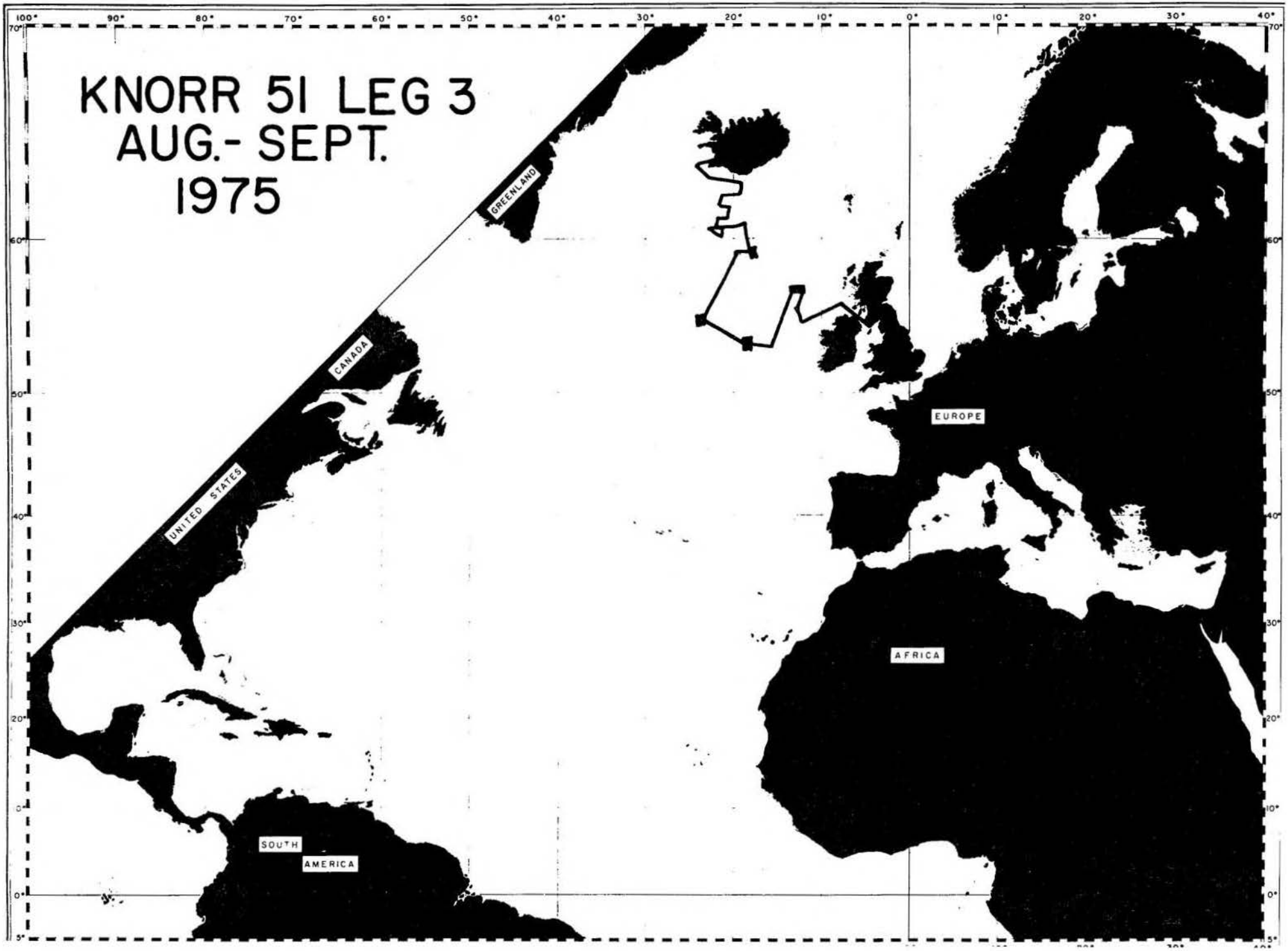
Expedition 47

Station No. 33

Leg No. 1

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 |
| 1 | calc ooze | 3 | 2 | | | 34 | 8 | 45 | | | 8 | | | tr |
| 30 | unfoss. clay/ Mn | 10 | 45 | | | 45 | | | | | tr | | | |
| 100 | unfoss. clay | 6 | 3 | | | 91 | | | | | tr | | | |
| 159 | unfoss. clay with Mn micro-nodules | 12 | 20 | | | 68 | | | | | tr | | | |


KNORR 51 LEG 3
AUG.- SEPT.
1975
GREENLAND
CANADA
UNITED STATES
EUROPE
AFRICA
SOUTH
AMERICA

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:20 JUN 03,'77 ********** **WHOI**

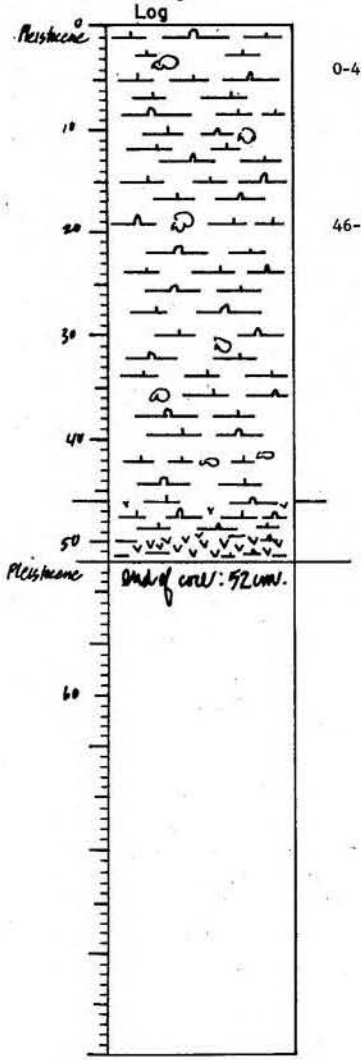
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KNR | 51 | 3 | 0021 | 0000 | 18 | 75 811 | 61 40.4'N | 20 31.4'W | 11 | 219.10 | 0001 | 2062. | 52. | 0000 | 26 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED.TYPE CALC-SILIC OOZE | | | | | | | | | | |
| KNR | 51 | 3 | 0022 | 0000 | 18 | 75 811 | 61 38.4'N | 20 32.8'W | 11 | 219.10 | 0002 | 2079. | 96. | 0000 | 26 | 0969 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE CALC.SILIC OOZE | | | | | | | | | | |
| KNR | 51 | 3 | 0023 | 0000 | 18 | 75 811 | 61 38.6'N | 20 34.4'W | 11 | 219.10 | 0003 | 2034. | 77. | 0000 | 26 | 0059 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY AND SECONDARY SED.TYPES CALC-SILIC OOZE | | | | | | | | | | |
| KNR | 51 | 3 | 0036 | 0000 | 16 | 75 824 | 54 28.5'N | 15 17.9'W | 9 | 182.45 | 0013 | 2665. | 1440. | 0000 | 26 | 4332 | 0 | |
| KNR | 51 | 3 | 0036 | 0000 | 26 | 75 824 | 54 28.5'N | 15 17.9'W | 9 | 182.45 | 0013 | 2665. | 139. | 0000 | 26 | 3429 | 0 | |
| KNR | 51 | 3 | 0039 | 0000 | 16 | 75 827 | 56 16.5'N | 12 30.2'W | 11 | 182.62 | 0017 | 2505. | 1003. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0039 | 0000 | 26 | 75 827 | 56 16.5'N | 12 30.2'W | 11 | 182.62 | 0017 | 2505. | 89. | 0000 | 26 | 3332 | 0 | |
| | | | | | **COMMENTS** | | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | |
| KNR | 51 | 3 | 0041 | 0000 | 16 | 75 829 | 56 17.9'N | 12 31.3'W | 11 | 182.62 | 0019 | 2535. | 1492. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 26 | 75 829 | 56 17.9'N | 12 31.3'W | 11 | 182.62 | 0019 | 2535. | 82. | 0000 | 26 | 3389 | 0 | |
| | | | | | **COMMENTS** | | | PILOT CORE RE-ENTRY SUSPECTED | | | | | | | | | | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.8'N | 12 32.8'W | 11 | 182.62 | 0022 | 2930. | 84. | 0000 | 26 | 3462 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.8'N | 12 33.2'W | 11 | 182.62 | 0023 | 2939. | 86. | 0000 | 26 | 4359 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.6'N | 12 33.3'W | 11 | 182.62 | 0024 | 2945. | 85. | 0000 | 26 | 4332 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.5'N | 12 33.8'W | 11 | 182.62 | 0025 | 2956. | 91. | 0000 | 26 | 3862 | 0 | |
| KNR | 51 | 3 | 0041 | 0000 | 18 | 75 830 | 56 16.6'N | 12 34.0'W | 11 | 182.62 | 0026 | 2962. | 51. | 0000 | 26 | 3359 | 0 | |
| KNR | 51 | 3 | 0042 | 0000 | 16 | 75 830 | 56 13.4'N | 12 38.0'W | 11 | 182.62 | 0031 | 2619. | 1296. | 0000 | 26 | 4319 | 0 | |
| KNR | 51 | 3 | 0042 | 0000 | 26 | 75 830 | 56 13.4'N | 12 38.0'W | 11 | 182.62 | 0031 | 2619. | 123. | 0000 | 26 | 3359 | 0 | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 51 Leg III Sta. 21 Core No. 1FF
Total Length 52 cm. Lat. 61° 48.4'N Long. 20° 51.4'W Depth 2062 m-corr.
Core condition EXCELLENT Date Described J.BRODA by 4 JUNE 76
Physiographic location MANRY CHANNEL MEANDER.

Lithologic Log




### Detailed Description

0-46
CALC SILIC OOZE
2.5 Y 4/2 dark grayish brown
a few, faint, grayish brown mottles and burrows throughout
moist, very silty lutite with a few scattered forams and white calc fragments
S, irregular

46-52
CALC SILIC OOZE WITH ASH AND A ZONE OF HIGHLY CALC SILIC CLAY/ASH
virtually homogeneous except for inclusion (see below)
smoother, moist lutite (somewhat spongy)
black ash inclusion, irregularly shaped, found at 50-51.5 cm

end of core



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

Ship: KNR Core No. 1 FF
Expedition 51 Station No. 21
Leg No. 3 Total Core Length 52 cm

| PYRITE | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | calc silic ooze | 2 | tr | | 9 | 28 | 5 | 42 | | | 3 | 4 | | 5 | tr |
| 3 | 34 | calc silic ooze | 4 | | | 14 | 30 | 8 | 30 | | | 3 | 4 | | 4 | tr |
| 2 | 48 | calc silic ooze with ash | 2 | | | 22 | 23 | 5 | 35 | | | 3 | 5 | | 3 | tr |
| | 52 | highly calc silic clay/ash | 3 | | | 42 | 30 | 4 | 16 | | | 3 | | | 2 | |

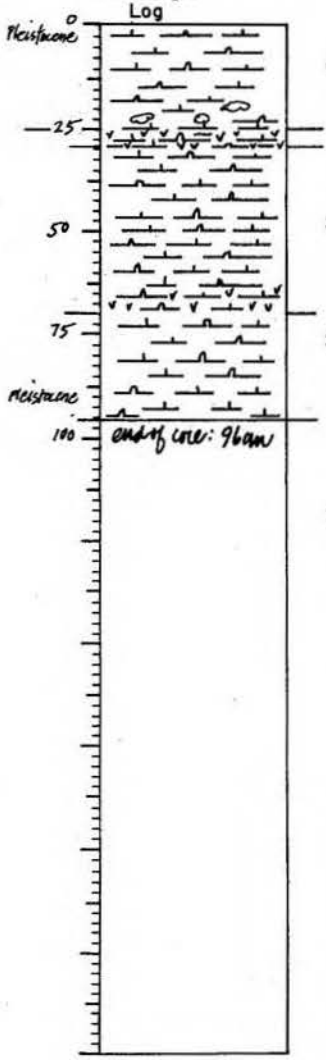
# 722

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg III Sta. 22 Core No. 2FF
Total Length 96 cm. Lat. 61° 38.4'N Long. 20° 32.8'W Depth 2079 m corr
Core condition EXCELLENT Date Described 4 JUNE 76 by J. Broda
Physiographic location MAURY CHANNEL MEANDER

Lithologic Log




### Detailed Description

0-25
CALC SILIC OOZE
2.5 Y 4/2 dark grayish brown
a few darker burrows and mottles found at unit basal contact
very moist, watery, silty lutite with very few forams
slightly disturbed and washed 0-13 cm
S, irregular

25-29
HIGHLY CALC SILIC CLAY/ASH
2.5 Y N2.5/ black
homogeneous throughout
moist bed of nearly pure ash
very S, slightly disturbed

29-70
CALC SILIC OOZE GRADES TO CALC SILIC OOZE/ASH
2.5 Y 4/2 dark grayish brown
a few, yellowish, siliceous laminations found at 32 cm, 56 cm (faint), 60 cm
moist, silty, slightly mulchy lutite
color grades to 2.5 Y 3/2 very dark grayish brown 67-70 cm
S, horizontal

70-96
CALC SILIC OOZE
2.5 Y 4/2 dark grayish brown
several lighter brownish-gray laminations and zones 82-90 cm
moist, silty, slightly mulchy lutite

end of core

# 723

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

Ship: KNR Core No. 2 FF
Expedition 51 Station No. 21
Leg No. 3 Total Core Length 96 cm

| PYRITE | LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) Inorganic Material Silt & Sand: Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Biogenous Material Calcareous: Forams | Nannofossils | Pteropods | Discoasters | Others | Siliceous: Diatoms | Radiolaria | Sponges | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | calc silic ooze | 3 | 3 | | 12 | 21 | 6 | 45 | | | 2 | 3 | | 5 | tr |
| | 15 | calc silic ooze | 3 | 2 | | 10 | 27 | 3 | 35 | | | 2 | 10 | tr | 6 | 1 |
| | 27 | highly calc silic clay/ash | 5 | tr | | 40 | 31 | 3 | 18 | | | 1 | tr | | 2 | tr |
| | 31 | calc silic ooze | 2 | tr | | 8 | 37 | 2 | 40 | tr | | 4 | 2 | tr | 4 | 1 |
| 4 | 32 | calc silic ooze | tr | | | 3 | 25 | 2 | 32 | tr | | 2 | 25 | tr | 5 | 1 |
| 3 | 68 | calc silic ooze/ash | 3 | | | 25 | 17 | 7 | 30 | | | 5 | 4 | tr | 6 | tr |
| | 95 | calc silic ooze | 3 | | | 8 | 24 | 5 | 45 | | | 4 | 6 | tr | 5 | tr |

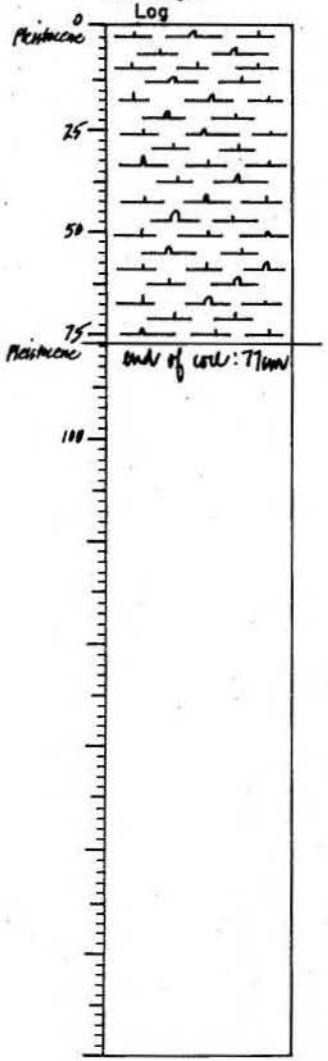
## 724

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNR Cruise 51 Leg III Sta. 23 Core No. 3FF
Total Length 77 cm. Lat. 61°38.6'N Long. 20°34.4'W Depth 2034 m.corr.
Core condition EXCELLENT Date Described 4 JUNE 76 by J. Bader
Physiographic location MAURY CHANNEL MEANDER.

Lithologic Log




Detailed Description

0-77
CALC SILIC OOZE
2.5 Y 4/2 dark grayish brown and 5/2 grayish brown
varying hues of the colors above found throughout gradational zones 10-15 cm, 35-42 cm
moist, silty, slightly mulchy lutite throughout
7 cm void, top of liner, filled with foam - no sediment missing

end of core

## 725

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

Ship: KNR Core No. 3 FF
Expedition 51 Station No. 23
Leg No. 3 Total Core Length 77 cm

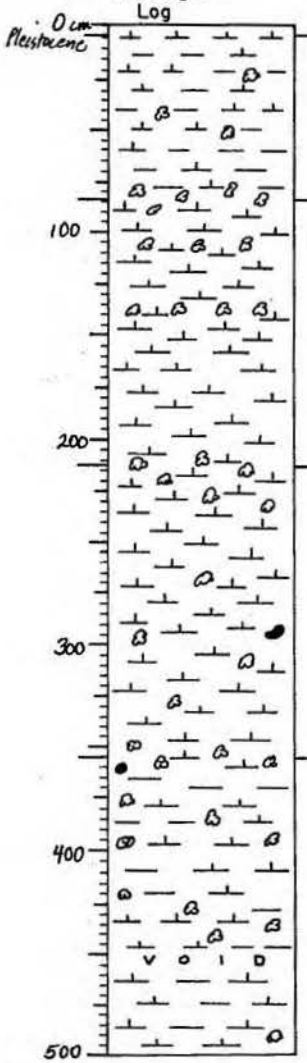
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc silic ooze | 3 | tr | | 6 | 47 | 3 | 32 | tr | | 4 | 3 | tr | 2 | tr |
| 17 | calc silic ooze | 2 | tr | | 5 | 42 | 6 | 35 | tr | | tr | 3 | 1 | 6 | tr |
| 38 | calc silic ooze | 5 | | | 9 | 40 | 2 | 30 | | | 3 | 4 | tr | 7 | tr |
| 70 | calc silic ooze | 3 | tr | | 5 | 32 | 7 | 42 | | | tr | 3 | tr | 8 | tr |
| 77 | calc silic ooze | 2 | tr | | 5 | 39 | 4 | 40 | | | 2 | 2 | tr | 6 | tr |

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 36 Core No. 13-GPC
Total Length 1440 cm. Lat. 54° 28.5'N Long. 15° 17.9'W Depth 2665 CORR. M.
Core condition EXCELLENT Date Described 7 June 76 by H. Farmer
Physiographic location FENI DRIFT - EASTERN NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-4
CALC OOZE
2.5 Y 6/2 light brownish gray
homogeneous throughout
fairly firm, very silty lutite; forams are common
S, disturbed

4-83
HIGHLY CALC CLAY
2.5 Y 5/2 grayish brown
small marbling and mottling of various brownish grays and subtle light and dark laminations appear throughout
compact, very silty lutite, forams vary from scattered to quite common but are particularly abundant from 17-18 cm, 24-29 cm, and 75-78 cm; a clast of silt - very distorted lamination - appears along edge of core liner from 8-11 cm
S, mottled from 76-88 cm
NOTE: Upon inspection of the pilot core, the top 14 cm described above appear to be a compacted and disturbed representation of approximately the basal 30-40 cm of the pilot core.

83-213
CALC OOZE
grades from 10 YR 7/1 or 7/2 light gray to 2.5 Y 6/2 and 5/2 brownish grays; three cycles of the above sequence appear from 84-104 cm, 104-140 cm and 140-213 cm with the paler colors being much more common
mottling and marbling of the above colors are common, particularly near the grayish brown zones
stiff, very silty lutite, with the darker areas being somewhat less firm than the primary sediment; forams are particularly abundant in the light gray zones but are quite common throughout
S, well mottled

213-355
CALC OOZE
10 YR 7/1 light gray grades towards 8/1 white (255-295 cm) and then darkens to 7/1 again
brownish gray mottles from the above unit are scattered into the top 20 cm while intermottling and marbling of the primary colors are common throughout this interval
compact, quite silty lutite except somewhat less silty in the white zone; forams are abundant in numerous patches throughout the unit
small, basaltic pebble at 293 cm
very G, mottled from 350-362 cm

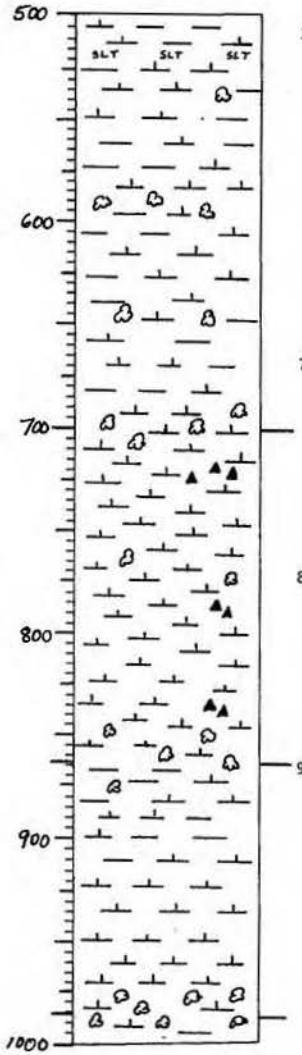


## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 36 Core No. 13-GPC

Lithologic Log




### Detailed Description

355-700
HIGHLY CALC CLAY
predominant color is somewhat paler than 2.5 Y 5/2 grayish brown except transitional zone with upper unit (355-370 cm) 2.5 Y 6/2 light brownish gray
wide laminations of 2.5 Y 5/2 grayish brown appear at 373-386 cm, 420-440 cm, and 692-699 cm; pale band of 6/2 light brownish gray at 586-697 cm; mottling and marbling are present throughout but more common near above irregularities
compact, silty lutite; forams increase from common to abundant below 570 cm, very thin bed of coarse sand (detritus/calc ooze) grading up into silty lenses and laminations at 518 cm
small, well rounded pebble at 362 cm; small pumice (?) fragment at 399 cm; void - 452-454 cm
S, but very mottled

700-864
CALC OOZE
10 YR 7/1 light gray grades to 2.5 Y 6/2 light brownish gray (≈750 cm) and back to 7/1 (≈ 780 cm)
intermottling of above colors is scattered throughout
quite firm, compact, very silty lutite with numerous forams
very dark gray-brown lens at 720 cm and a couple mottle-like features at 790 cm and 842 cm (calc ooze with pyrite)
very G, well mottled

864-986
CALC CLAY GRADES TO NANNO OOZE
2.5 Y 5/2 grayish brown pales to 10 YR 7/1 light gray (~ 925 cm)
subtle mottling is present throughout but particularly apparent as it grades to light gray; light brownish gray lamination at 962 cm
silty lutite becomes quite firm and siltier as color pales with depth
G and extensively mottled (975-990 cm)

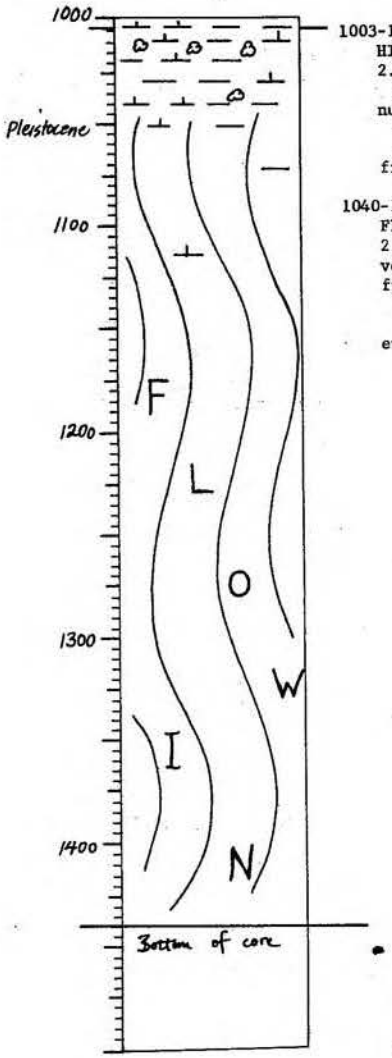
986-1003
HIGHLY CALC CLAY
2.5 Y 5/2 grayish brown
scattered mottles of light gray and a few very small clasts of dark lutite
compact, silty lutite with common forams
Sharp, mottled

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 36 Core No. 13-GPC

Lithologic Log




### Detailed Description

1003-1040
HIGHLY CALC CLAY
2.5 Y 6/2 light brownish gray, darkens towards 5/2 with depth
numerous mottles of grayish brown extend into top 10 cm; some subtle marbling is apparent in remainder of unit
firm, compact, silty lutite; forams vary from common to quite abundant in smallish pods

1040-1440 (G)
FLOW IN
2.5 Y 5/2 grayish brown
very homogeneous
firm, silty lutite with numerous, very small inclusions of semi-lithified lumps of lutite

end of core





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

Ship: KNR Core No. 13 GPC

Expedition 51 Station No. 36

Leg No. 3 Total Core Length 1440 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | PYRITE | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | | tr | | | | 44 | 5 | 48 | | | 1 | 2 | | tr | tr |
| 9 | highly calc clay | | 1 | tr | | | 82 | 1 | 4 | | | 12 | tr | | tr | |
| 10 silt | calc ooze/ detritus | | 30 | | | | 7 | 8 | 1 | | | 54 | | | tr | |
| 58 | highly calc clay | | 2 | | | tr | 81 | 2 | 9 | | | 6 | | | tr | |
| 134 | calc ooze | | 4 | | | | 35 | 2 | 42 | | | 17 | | | tr | |
| 190 | calc ooze | | 2 | | | | 23 | 6 | 70 | | | 4 | | | tr | |
| 280 | calc ooze | | tr/tr | | | | 20 | 6 | 71 | | | tr | 3 | | tr | tr |
| 380 | calc clay | | tr/4 | | | | 82 | tr | 5 | | | 9 | | | | |
| 435 | highly calc clay | | 3 | | | | 68 | 1 | 20 | | | 8 | | | | |
| 517 | detritus/ calc ooze | | 68 | | | | 2 | | tr | | | 30 | | | | |
| 535 | calc clay | | 4 | | | | 82 | 1 | 5 | | | 8 | | | | |
| 628 | highly calc clay | | tr/4 | | | | 69 | 15 | 7 | | | 5 | | | | |
| dark mottle 718 | calc ooze w/pyrite | | 20/1 | | | | 3 | 67 | 6 | | | 3 | | | tr | |
| 733 | calc ooze | | 1 | | | | 38 | 10 | 50 | | | 1 | | | tr | |
| dark mottle 790 | calc ooze w/pyrite | | 20/1 | | | | 47 | 10 | 17 | | | 5 | | | tr | |
| (cont.) | | | | | | | | | | | | | | | | |

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

Ship: KNR

Core No. 13 GPC

Expedition 51

Station No. 36

Leg No. 3

Total Core Length 1440 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 877 | calc clay | 4 | | | | 84 | 2 | 5 | | | 5 | | | | |
| 961 | nanno ooze | tr | | | | 16 | 2 | 80 | | | 2 | | | | |
| 995 | highly calc clay | tr / 4 | | | | 74 | 2 | 5 | | | 15 | | | | |
| 1025 | highly calc clay | 1 / 5 | | | | 70 | 10 | 4 | | | 10 | | | | |
| 1360* | clay/ detritus | 30 | | | | 70 | | tr | | | tr | | | | |
| 1425 | calc clay | 1 | | | tr | 84 | tr | 6 | | | 8 | | | tr | |

* sampled from small, lithified inclusion in flow-in

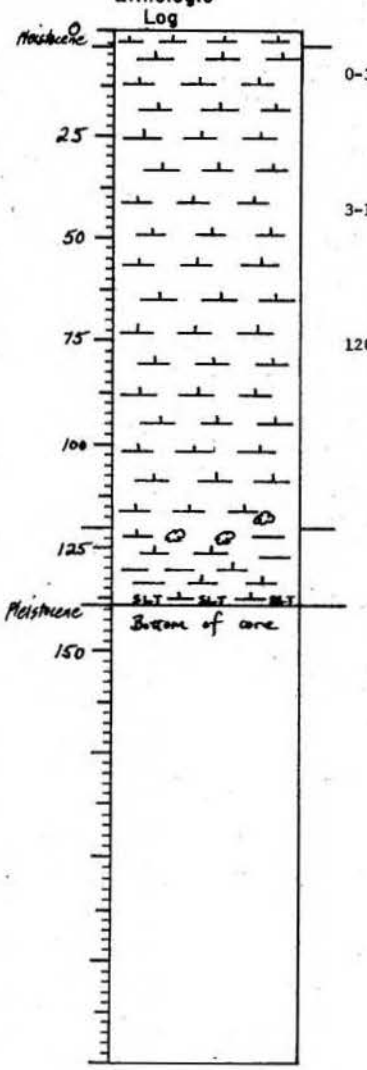


## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 36 Core No. 13-PG
Total Length 139 cm. Lat. 54° 28.5' N Long. 15° 17.9' W Depth 2665 corr. m.
Core condition EXCELLENT Date Described 9 June 76 by H. Farmer
Physiographic location FENI DRIFT - EASTERN NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-3
CALC OOZE
10 YR 6/3 pale brown
no mottling
silty lutite
void: 0-2 cm
S, distorted

3-120
CALC OOZE
10 YR 7/1 light gray, darkens very smoothly with depth towards 2.5 Y 6/2 light brownish gray
a few, very subtle mottles appear throughout
compact, silty lutite with numerous forams
G, very mottled

120-139
HIGHLY CALC CLAY
2.5 Y 6/2 light brownish gray grades to 5/2 grayish brown
large mottling with the upper unit appears from 115-135 cm
firm, silty lutite with a thin silt lamination (calc ooze/detritus) at base of unit

end of core

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

Ship: KNR  Core No. 13 PG

Expedition 51  Station No. 36

Leg No. 3  Total Core Length 139 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICOFLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | 41 | 4 | 50 | | | 2 | 3 | | tr | tr |
| 75 | calc ooze | tr | | | | 40 | 10 | 48 | | | 1 | 1 | tr | tr | |
| 130 | highly calc clay | 3 | | | tr | 69 | 1 | 20 | | | 7 | tr | tr | tr | |
| 139 | calc ooze/ detritus | 45 | | | tr | tr | 5 | tr | | | 50 | | | tr | |



VISUAL CORE DESCRIPTION



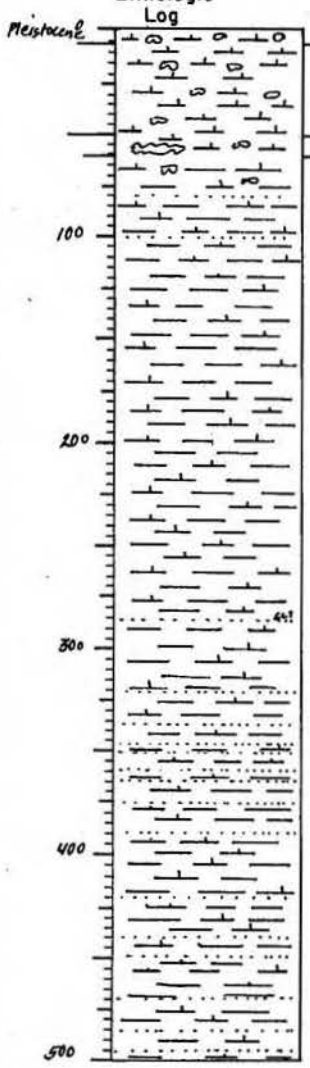
Ship KNORR Cruise 51 Leg 3 Sta. 39 Core No. 176PC

Total Length 1001 cm. Lat. 58° 16.5'N Long. 12° 30.2'W Depth 2505 m. corr.

Core condition EXCELLENT Date Described 14 JUNE 76 by J. Broda.

Physiographic location ROCKALL TROUGH.

Lithologic Log




Detailed Description

0-6
CALC OOZE
10 YR 6/3 pale brown
complete (somewhat disturbed) intermottling and marbling with the unit
fairly coarse, silty lutite with abundant forams
entire unit slightly disturbed and washed
G, mottled

6-50
CALC OOZE
10 YR 7/2 light gray
common, pale brown and very pale brown mottling and burrowing
firm, slightly silty lutite with abundant forams
G, mottled

50-61
CALC OOZE
10 YR 5/2 grayish brown
a few, faint light gray mottles scattered throughout and one outstanding, very pale brown, foram-rich burrow spans entire liner at 55 cm
firm, slightly silty lutite with forams common in burrows, scattered in matrix
S, textural

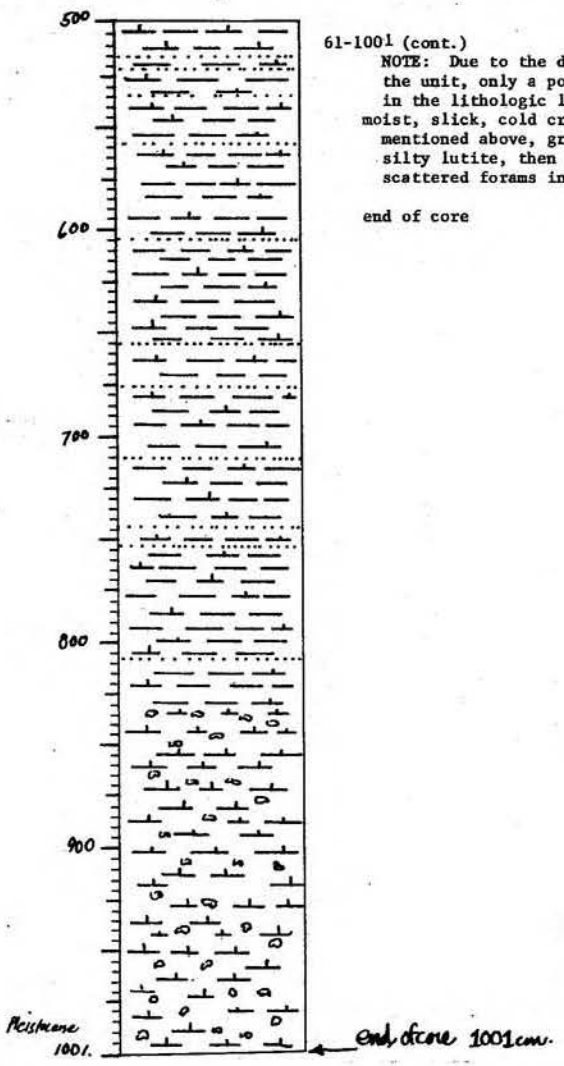
61-1001
HIGHLY CALC CLAY WITH LAMINATIONS OF DETRITUS/HIGHLY CALC CLAY GRADES TO CALC CLAY WITH LAMINATIONS OF DETRITUS TO CALC OOZE 10 YR 5/2 grayish brown
a few light gray mottles 61-75 cm; also an excellent, well-defined foram-rich, very pale brown burrow (1 cm wide) 77-78 cm: from there on a series of silt laminations (gray) 2 mm-1.2 cm wide are found at irregular intervals throughout the core. The major laminations are found: 80 cm, fine and somewhat irregular; 100 cm; 286 cm, again irregular in thickness; 320-321 cm, rusty, yellowish-brown and concave upward; 336-337 cm, 1 cm thick; 345-365 cm, 2 to 3 mm thick a 1 cm intervals; 374 cm, 1 cm wide, distorted by coring (concave downward); 377-390 cm - many thin, distorted laminations; 396-97 cm - slightly coarser than the ones above (1 cm thick), very similar ones found 417, 420, 426, 440, 442, 444, 465, 475, 478, 484, 487, 491, 518, 520 cm and so on throughout the unit: there is a lightening in the color of the matrix sediment in a heavily burrowed zone (gray and pale brown) 830-1000 cm. Near the base of the core the small mottles have a rusty, freckle-like appearance.

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg 3 Sta. 39 Core No. 17GPC

Lithologic Log




### Detailed Description

61-1001 (cont.)

NOTE: Due to the density of laminations throughout the unit, only a portion of the features are depicted in the lithologic log.

moist, slick, cold cream-like lutite with silt laminations mentioned above, grades slowly to more compact, slightly silty lutite, then to somewhat stiff, silty lutite with scattered forams in the zone 780-1000 cm

end of core





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

Ship: KNR Core No. 17 GPC

Expedition 51 Station No. 39

Leg No. 3 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 |
| 1 | calc ooze | 2 | 1 | | | 29 | 8 | 55 | tr | | 5 | tr | | tr |
| 50 | calc ooze | 1 | tr | | | 42 | 4 | 45 | | | 8 | | | |
| 60 | calc ooze | 2 | tr | | | 38 | 5 | 48 | | | 7 | | | |
| 66 | highly calc clay | 6 | tr | | | 77 | tr | 8 | | | 9 | | | |
| 120 | highly calc clay | 3 | | | | 82 | tr | 7 | | | 8 | | | |
| 200 | highly calc clay | 4 | tr | | | 79 | 1 | 9 | | | 7 | | | |
| 300 | highly calc clay | 4 | 12 | | | 80 | tr | 7 | | | 9 | | | |
| 313 | calc clay | 3 | 5 | | | 80 | tr | 5 | | | 7 | | | |
| 373 | detritus/hly calc clay | 75 | | | | 5 | tr | | | | 20 | | | |
| 397 | detritus/hly calc clay | 74 | | | | 3 | 1 | | tr | | 22 | | | |
| 495 | calc clay | 2 | tr | | | 89 | tr | 4 | | | 5 | | | |
| 500 | highly calc clay | 5 | | | | 77 | tr | 3 | | | 15 | | | |
| 600 | calc clay | 6 | tr | | | 80 | | 2 | | | 12 | | | |
| 625 | detritus/hly calc clay | 74 | | | | 3 | 1 | | | | 22 | | | |
| (cont.) | | | | | | | | | | | | | | |

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

Ship: KNR

Core No. 17 GPC

Expedition 51

Station No. 39

Leg No. 3

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 |
| 700 | highly calc clay | 4 | | | | 78 | tr | 4 | | | 14 | | | |
| 800 | highly calc clay | 2 | | | | 82 | tr | 6 | | | 10 | | | |
| 830 | calc ooze | 1 | tr | | | 37 | 2 | 55 | | | 5 | | | |
| 900 | calc ooze | 2 | 1 | | | 33 | 8 | 50 | | | 6 | | | |
| 1000 | calc ooze | 2 | tr | | | 24 | 8 | 62 | tr | | 3 | tr | | 1 |



VISUAL CORE DESCRIPTION



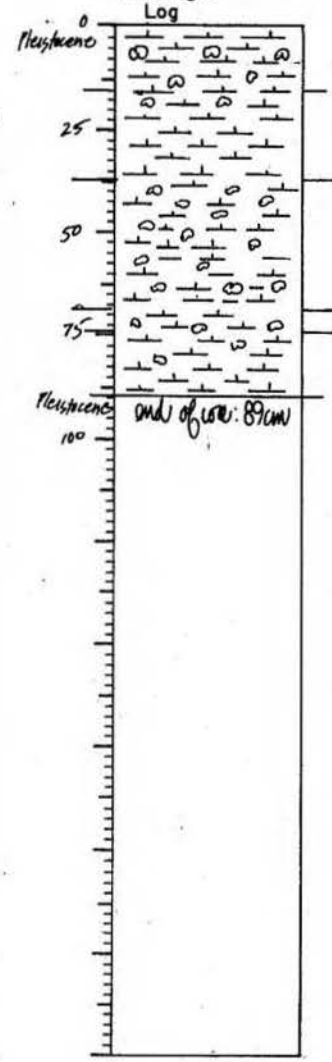
Ship KNORR Cruise 51 Leg 3 Sta. 39 Core No. 17PG

Total Length 89 cm. Lat. 56°16.5'N Long. 12°30.2'W Depth 2505m.corr.

Core condition EXCELLENT Date Described 14 June 76 by J. Broda.

Physiographic location ROCKALL TROUGH.

Lithologic Log




Detailed Description

NOTE: Due to a repetative sequence of similar lithologies this core is suspected to be an example of multiple penetration (pilot rebound) recovery

0-15
CALC OOZE
10 YR 6/3 pale brown grades to 5/3 brown
common intermottling of the colors above through the zone 6-15 cm (a few light gray mottles are also included)
firm, slightly silty lutite with scattered forams
S, horizontal

15-37
CALC OOZE
10 YR 6/2 light brownish gray
a few faint, pale brown mottles near top of unit, otherwise homogeneous throughout
firm, slightly silty lutite with scattered forams
G, mottled

37-68
CALC OOZE GRADES TO CALC CLAY
10 YR 5/2 grayish brown grades to 4/2 dark grayish brown
extensive, pale brown and grayish brown mottling and burrowing throughout
slightly silty lutite grades to smooth, slick lutite with forams exclusively in burrows and mottles
Very Sharp, slightly irregular

68-74
CALC OOZE
10 YR 5/3 brown
common, pale brown mottling and marbling throughout
firm, slightly silty lutite with scattered forams
S, irregular

74-89
CALC OOZE
10 YR 6/2 light brownish gray
a few, pale brown and gray mottles at top of unit, then homogeneous to base
firm, slightly silty lutite with scattered to abundant forams

end of core

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

Ship: KNR  Core No. 17 PG

Expedition 51  Station No. 31

Leg No. 3  Total Core Length 89 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | 1 | | | 20 | 12 | 55 | 2 | | 5 | 2 | | 1 |
| 25 | calc ooze | tr | 1 | | | 25 | 14 | 50 | 1 | | 8 | tr | | 1 |
| 67 | calc clay | 2 | tr | | | 91 | tr | 3 | | | 4 | | | |
| 88 | calc ooze | 3 | tr | | | 36 | 8 | 50 | tr | | 5 | tr | | tr |

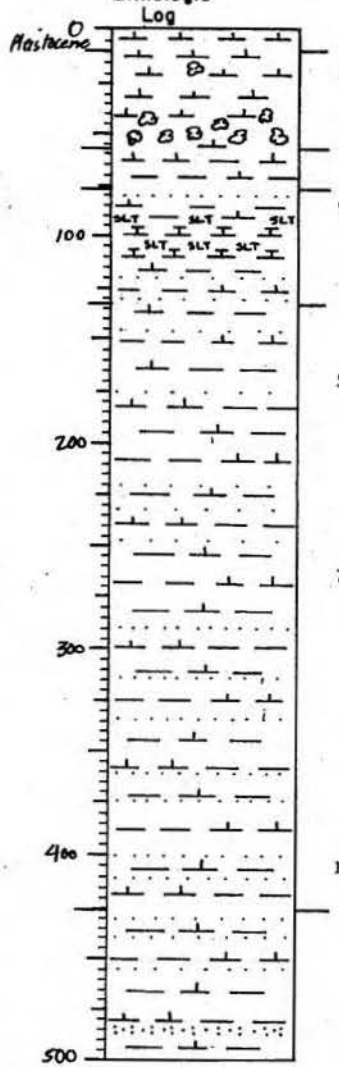


VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 91 Core No. 19-GPC
Total Length 1492 cm. Lat. 56° 17.9' N Long. 12° 31.3' W Depth 2535 corr. m.
Core condition EXCELLENT Date Described 18 June 76 by H. Farmer
Physiographic location ROCKALL TROUGH - EASTERN NORTH ATLANTIC

Lithologic Log




Detailed Description

0-9
CALC OOZE
10 YR 6/3 pale brown
no mottling
relatively unconsolidated, silty lutite; forams are common
S, but very disturbed

9-57
CALC OOZE
2.5 Y 6/2 light brownish gray
slightly darker marbling and mottling are scattered through the top 20 cm while extensive intermottling with the lower unit is predominant in the basal 15 cm
somewhat firmer, silty lutite; forams are generally quite common
S, mottled

57-76
HIGHLY CALC CLAY
2.5 Y 5/2 grayish brown
a few light brownish gray mottles appear near the top, and a 5 mm, slightly distorted lamination of light brownish gray is situated at 70 cm
firm, slightly silty lutite; forams are scattered lightly throughout; poorly defined zone with a number of very small shell fragments mixed with lutite 73-75 cm (S)

76-133
CALC CLAY WITH LAMINATIONS OF DETRITUS/CALC OOZE
2.5 Y 4/2 dark grayish brown
another 5 mm, light brownish gray lamination and a 2 x 2 cm mottle of the same color appear at 76 cm and 96 cm; a partially eroded lamination at 99 cm, and a complete but slightly disturbed lamination from 102-103 are 5/2 grayish brown
quite smooth, slick, cold cream-like lutite with the following exceptions: thin ( ≈ 3 mm), somewhat disturbed silt laminations at 80, 85, 89, 90, 120, 122, and 124 cm: two larger graded beds (calc ooze/detritus to foram sand) with sharp, erosional basal contacts and relatively sharp upper contacts at 95-99 cm and 103-108 cm (S, disturbed)

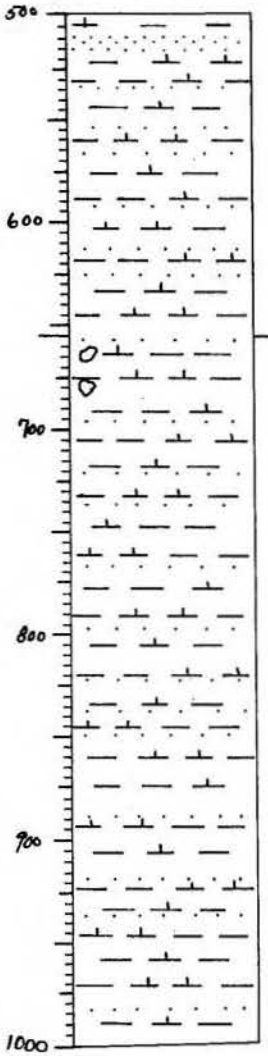
133-425
HIGHLY CALC CLAY WITH LAMINATIONS OF DETRITUS/CALC OOZE
2.5 Y 5/2 grayish brown
a somewhat paler hue of the above color is also present and the two are intermottled and subtly laminated throughout; in addition, a few rusty, dark yellow spots generally with a compact, partly lithified center (calc clay) are found scattered from 220-320 cm and more commonly below that to 425 cm

VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 19-GPC

Lithologic Log




Detailed Description

133-425 (cont.)
compact and fairly smooth, slick lutite; a few forams are scattered throughout with the following exceptions: fine silt laminations similar to above unit at 158, 176, 220, 226, 245, 248, 288, 316, 321, 331, 334, 337, 359, 375, 387, 400, 406, 407, 411 and more
G

425-654
HIGHLY CALC CLAY WITH LAMINATIONS OF DETRITUS/ CALC OOZE
2.5 Y 5/2 grayish brown
no mottling
very similar to above unit but smoother and more uniform - no forams or rusty, dark yellow spots: fine laminations of silt are still numerous and two large, somewhat disturbed beds of well-sorted silt at 478-484 and 509-516 cm
G

654-1140
HIGHLY CALC CLAY WITH LAMINATIONS OF DETRITUS/ CALC OOZE
2.5 Y 5/2 grayish brown (however, this unit is distinctly lighter than the above unit and quite similar to the one above 425 cm)
as before, there are two shades of grayish brown that appear as very large (20-40 cm) and often sharply contacted laminations: several of the dark yellow, rusty spots of very compact lutite show up again between 900-1010 cm
compact, slick lutite; some zones of scattered forams do occur in the generally quite smooth sediment; again, fine laminations of silt are spaced anywhere from 1-15 cm apart down the core
2 good-sized (2 x2), fairly angular pebbles: 665 and 678 cm G

1140-1492
FLOW IN of above material

end of core

NOTE: Initial shipboard description indicates that numerous (at 5 cm) hydrotroilite layers were present throughout most of this core immediately after extrusion. Notable zones devoid of these layers were 0-160 cm and 460-660 cm.

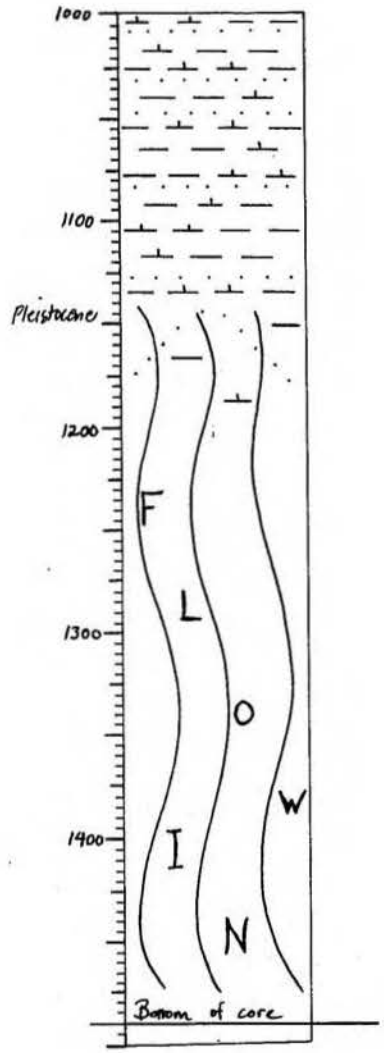


VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 19-GPC

Lithologic Log




Detailed Description

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

Ship: KNR  Core No. 19 GPC

Expedition 51  Station No. 41

Leg No. 3  Total Core Length 1492 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | PYRITE | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 4 | calc ooze | | 1 | 2 | | | 34 | 9 | 47 | | | 2 | 5 | | tr | tr |
| 26 | calc ooze | | 1 | | | | 39 | 7 | 50 | | | 4 | 2 | | tr | |
| 67 | highly calc clay | | 2 | tr | | | 69 | 1 | 22 | | | 6 | | | tr | |
| 80 | detritus/ calc ooze | | 70 | tr | | tr | tr | | | | | 30 | | | | |
| 95 | calc ooze/ detritus | | 30 | | | | 4 | 10 | 1 | | | 55 | | | | |
| 99 | foram ooze | | 10 | | | | 5 | 70 | 5 | | | 10 | | | | |
| 117 | calc clay | | tr | tr | | | 89 | | 1 | | | 10 | | | | |
| 170 | highly calc clay | | 3 | | | | 78 | tr | 3 | | | 16 | | | | |
| 176 | detritus/ calc ooze | | 63 | 1 | | tr | tr | 1 | tr | | | 35 | | | tr | |
| 246 | detritus/ calc ooze | | 65 | tr | | tr | tr | | tr | | | 35 | | | | |
| 272 | highly calc clay | | 2 | | | | 80 | tr | 3 | | | 15 | | | | |
| 380 | highly calc clay | | 3 | | | | | tr | 2 | | | 15 | | | | |
| 392* | calc clay* | | 1 | | | | 89 | | 3 | | | 7 | | | | |
| | (cont.) | | | | | | | | | | | | | | | |

*sampled from rusty, dark yellow inclusion



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

Ship: KNR  Core No. 19 GPC

Expedition 51  Station No. 41

Leg No. 3  Total Core Length 1492 cm

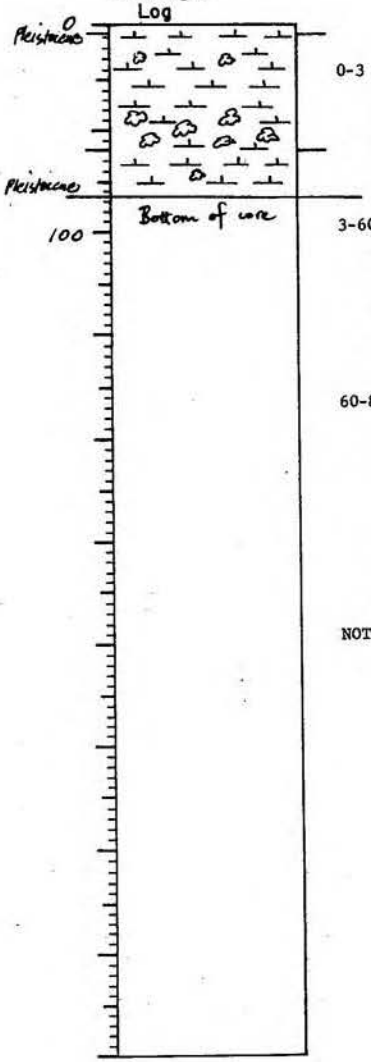
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | PYRITE | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 495 | highly calc clay | | 6 | | | | 73 | | 1 | | | 20 | | | | |
| 601 | highly calc clay | | 3 | | | | 82 | tr | tr | | | 15 | | | | |
| 656 | highly calc clay | | 6 | | | | 70 | tr | 1 | | | 23 | | | | |
| 754 | highly calc clay | | 7 | | | | 76 | tr | 2 | | | 15 | | | | |
| 846 | calc clay | | 1 | | | | 86 | | 1 | | | 12 | | | | |
| 943 | highly calc clay | | 6 | | | | 68 | tr | 7 | | | 19 | | | | |
| 1033 | detritus/ calc ooze | | 69 | | | 1 | tr | tr | tr | | | 30 | | | | |
| 1050 | highly calc clay | | 5 | | | | 79 | tr | 1 | | | 15 | | | | |
| 1138 | highly calc clay | | 8 | | | | 68 | 1 | 2 | | | 21 | | | | |

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 19-PG
Total Length 82 cm. Lat. 56° 17.9' N Long. 12° 31.3' W Depth 2535 corr. m.
Core condition EXCELLENT Date Described 18 Jun 76 by H. Farmer
Physiographic location ROCKALL TROUGH, EASTERN NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-3
CALC OOZE
10 YR 6/3 pale brown
a thin lamination of 5/3 brown appears at base of unit
relatively compact, silty lutite; forams are common;
a zone of very small shell fragments stretches along the core liner from 0-3 cm

S

3-60
CALC OOZE
2.5 Y 6/2 light brownish gray
a few grayish brown mottles are present in the zone 10-17 cm, while the base of the unit from 40-60 cm is extensively mottled in a similar color
firm, compact, fairly silty lutite; forams or other fine-grained biogenic material are fairly common

S, but distorted

60-82
CALC OOZE
2.5 Y 6/2 light brownish gray
a distorted sliver of 10 YR 6/3 pale brown lies at the upper contact; a few grayish brown mottles appear in the zone 62-64 cm and a similar marbling in the basal 4 cm
firm, fairly silty lutite; forams or other biogenic material are fairly common

end of core

NOTE: After comparison with the giant piston core, the contact between the two units described at 60 cm appears questionable and probably represents a repenetration of the pilot core.



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

Ship: KNR Core No. 19 PG
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 82 cm

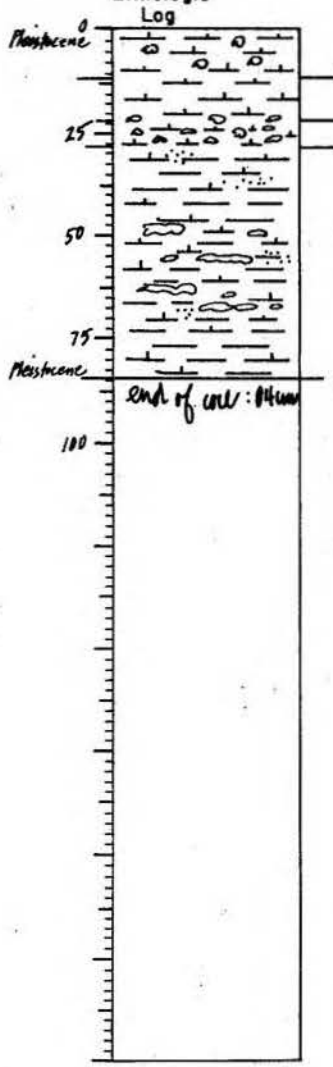
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | 1 | tr | | | 35 | 7 | 50 | | | 2 | 5 | tr | tr | |
| 28 | calc ooze | tr | tr | | | 41 | 8 | 50 | | | 1 | tr | | tr | tr |
| mottle 59 | highly calc clay | 2 | tr | | | 69 | 2 | 22 | | | 5 | | | tr | |
| 81 | calc ooze | 1 | | | | 40 | 8 | 50 | | | 1 | tr | | tr | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 22FF
Total Length 84 cm. Lat. 56°16.8'N Long. 12°32.8'W Depth 2930 m. corr.
Core condition EXCELLENT Date Described 3 JUNE 76 by J. Gerda
Physiographic location RAKRAK TROUGH.

Lithologic Log




### Detailed Description

0-12
CALC OOZE
10 YR 7/3 very pale brown, 10 YR 6/3 pale brown, 10 YR 5/4 brown
intermottling and marbling of the three colors above in an irregular fashion
firm, silty lutite with abundant forams
G, irregular

12-22
CALC OOZE
10 YR 6/2 light brownish gray
slight grayish brown (5/2) burrowing near unit basal contact
firm, compact, silty lutite with scattered to abundant forams
S, horizontal

22-28
CALC OOZE
10 YR 5/2 grayish brown
complete and extensive light brownish gray burrowing and mottling
moist, slick lutite as a matrix with silty, foram-rich material in the burrows
G

28-84
CALC CLAY WITH INCLUSIONS OF CALC OOZE/DETRITUS
10 YR 5/2 grayish brown, grades to 6/3 pale brown
several very pale brown burrows and laminations (1 cm wide) span entire liner at the intervals 49-50 cm, 54-55 cm, 62-63 cm, 66-67 cm
mostly slick, moist lutite with few forams throughout; lutite within laminations and burrows is more compact and has abundant forams
a few, fine, silty inclusions and lenses found 28 cm, 30 cm, 35 cm, 61 cm

end of core



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

Ship: KNR Core No. 22 FF
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 84 cm

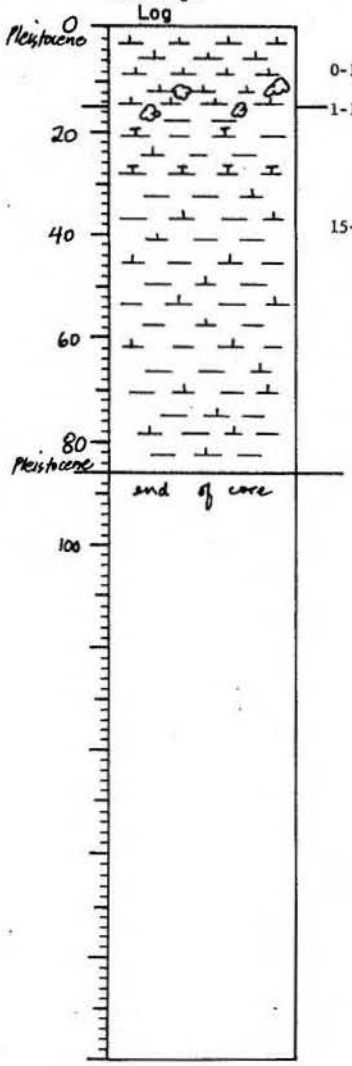
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc ooze | tr | | | | 24 | 12 | 60 | | | 2 | 2 | | 1 |
| 15 | calc ooze | 1 | | | | 23 | 15 | 55 | tr | | 4 | 1 | | 1 |
| 32 | calc clay | 5 | tr | | | 86 | 1 | 6 | | | 2 | tr | | |
| 35 | calc ooze/ detritus | 45 | | | | 21 | tr | 4 | | | 30 | | | tr |
| 66 | calc ooze | tr | | | | 33 | 12 | 50 | tr | | 5 | tr | | |
| 83 | calc clay | 5 | | | | 83 | 3 | 3 | | | 6 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg II Sta. 41 Core No. 23 FF
Total Length 86 cm. Lat. 56° 16.8'N Long. 12° 33.2'W Depth 2939 corr m.
Core condition EXCELLENT Date Described 1 JUNE 76 by H. FARMER
Physiographic location ROCKALL TROUGH

Lithologic Log




### Detailed Description

0-1
VOID

1-15
CALC OOZE
2.5 Y 6/2 light brownish gray pales with depth
mottled with lower unit from 13-18 cm
very silty lutite, forams are common
Sharp, but very mottled

15-86
CALC CLAY
2.5 Y 5/2 grayish brown
no mottling, but two very distorted laminations of 2.5 Y 4/2 dark grayish brown appear from 20-27 cm and 32-37 cm; sediment is very uniform below 37 cm
slick lutite with few forams interrupted by foram sand inclusions (23 cm, 26 cm) and distorted beds (19-21 cm and 28-31 cm)
50 cm - small pumice fragment in lens of fine calc-detrital silt

end of core



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

Ship: KNR Core No. 23 FF
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 86 cm

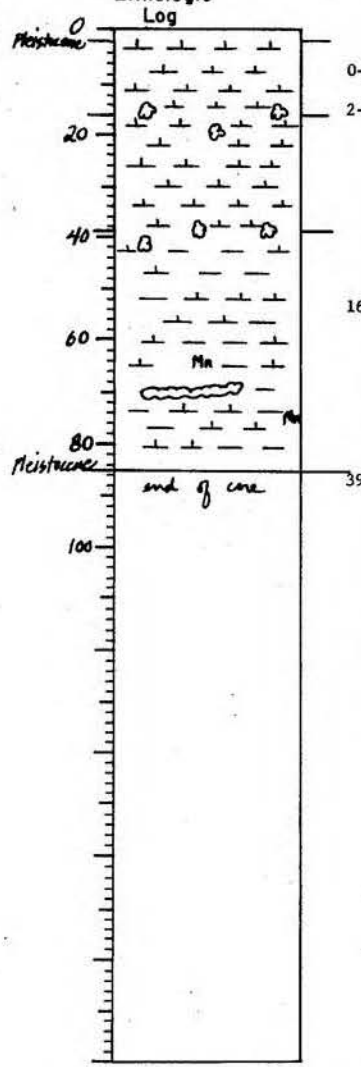
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 2 | calc ooze | tr | tr | | tr | 42 | 8 | 50 | | | tr | tr | | tr |
| 22 | calc clay | 1 | | | | 89 | | tr | | | 10 | | | |
| 50 | pumice fragment | | | | 100 | tr | | tr | | | tr | | | |
| 85 | calc clay | 1 | | | | 89 | | tr | | | 10 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 24 FF
Total Length 85 cm. Lat. 56° 16.6' N Long. 12° 33.3' W Depth 2945 corr. m.
Core condition EXCELLENT Date Described 2 JUNE 76 by H. Farmer
Physiographic location ROCKALL TROUGH

Lithologic Log




### Detailed Description

0-2
VOID

2-16
CALC OOZE
10 YR 6/3 pale brown, becomes darker at depth with laminations of 5/3 and 4/3 brown at 9-11 cm and 14-16 cm
intermottling of above colors and of lower unit near basal contact
fairly consolidated, very silty lutite; forams are abundant
Sharp, mottled

16-39
CALC OOZE
10 YR 7/2 light gray grades to 6/2 light brownish gray
very subtle, yellowish mottling near top and subtle variations of primary color lower in unit
fairly consolidated, very silty lutite; forams are common throughout except foram sand from 20-21 cm
Sharp, mottled

39-85
HIGHLY CALC CLAY
10 YR 5/2 dark grayish brown
large mottles from above are scattered down to 47 cm; very fine, light gray mottles are predominate from 47-53 cm; at 71 cm a light brownish gray burrow spans the core
compact, slightly silty lutite with common forams, becomes smoother with fewer forams with depth
68 cm - small, round, bright red-brown inclusion in center of core; 76 cm - black and red-brown nodules along edge of liner

end of core



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

Ship: KNR Core No. 24 FF
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 85 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGSS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | tr | | | 40 | 9 | 49 | 1 | | 1 | tr | tr | | tr |
| 15 | calc ooze | tr | 3 | | | 46 | 1 | 50 | | | tr | tr | | | |
| 26 | calc ooze | tr | | | | 50 | 5 | 44 | tr | | 1 | tr | | | |
| 68 | slightly calc clay/Mn | tr | 49* | | | 50 | | tr | | | 1 | | | | |
| 76 | slightly calc clay/Mn | 1 | 48* | | | 50 | | tr | | | 1 | | | | |
| 84 | highly calc clay | 3 | | | | 81 | tr | 1 | | | 15 | | | | |

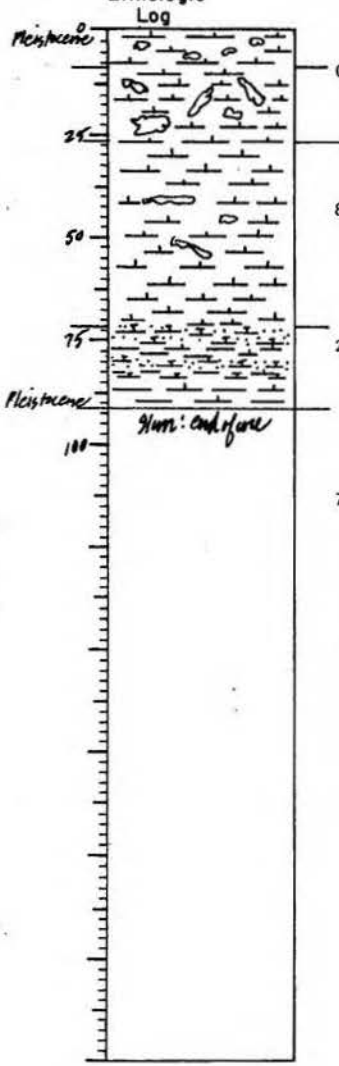
*clay coated with some oxide - similar to Mn

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 25 FF
Total Length 91 cm. Lat. 56°16.5'N Long. 12° 33.8'W Depth 2956 m corr
Core condition EXCELLENT Date Described 5 JUNE 76 by J. Beda
Physiographic location ROCKALL TROUGH.

Lithologic Log




### Detailed Description

0-8
CALC OOZE
10 YR 6/3 pale brown, grades to 5/2 grayish brown
common intermottling of the two colors above
firm, silty lutite with abundant forams, especially in mottle pockets
S, irregular

8-26
CALC OOZE
10 YR 7/2 light gray, grades to 6/2 light brownish gray
extensive burrow-mottling 15-26 cm
firm, slightly silty lutite with abundant forams concentrated in burrows
G, mottled

26-72
CALC OOZE WITH DETRITUS
10 YR 5/1 gray
a few, faint, light brownish gray, elongated burrows are found spanning liner throughout
much smoother, very slightly silty lutite with only a few forams
very Sharp, slightly inclined

72-91
CALC CLAY WITH ZONES OF CALC OOZE/DETRITUS
10 YR 5/1 gray
repeated and inclined, somewhat graded beds of forams and silt span the zones 72-76 cm, 79-81 cm, 82-83 cm
as above; smooth lutite with few forams, but beds are coarse at base to fine foram (fractured) sand at top

end of core



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

Ship: KNR Core No. 25 FF
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 91 cm

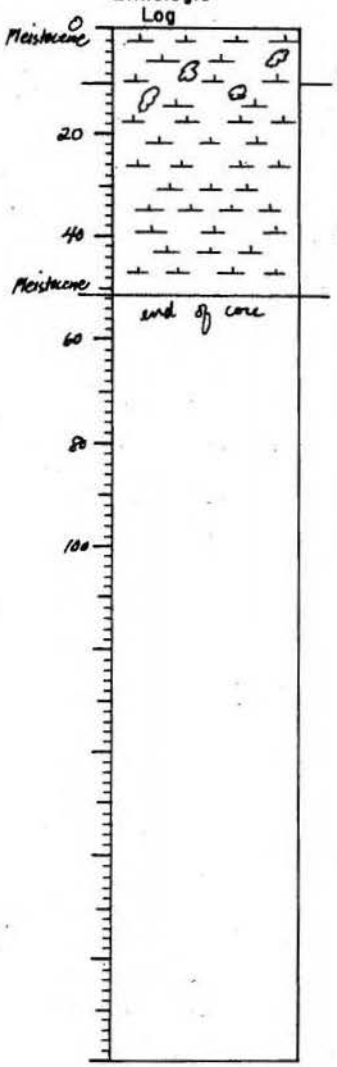
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc ooze | 2 | | | | 27 | 12 | 55 | | | 2 | 1 | tr | 1 |
| 40 | calc ooze with detritus | 20 | | | | 25 | 3 | 15 | | | 35 | tr | | 2 |
| 74 | calc ooze/ detritus | 30 | | | | 15 | 45 | 12 | | | 3 | | | |
| 90 | calc clay | 4 | tr | | | 88 | tr | 2 | | | 6 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 51 Leg III Sta. 41 Core No. 26 FF
Total Length 51 cm. Lat. 56° 16.6' N Long. 12° 34.0' W Depth 2962 corr. m.
Core condition EXCELLENT Date Described 2 JUNE 76 by H. Farmer
Physiographic location ROCKALL TROUGH

Lithologic Log




### Detailed Description

0-10
CALC OOZE
10 YR 6/3 pale brown with distorted laminations of 5/3 and 4/3 brown (3 cm, 5-6 cm, 9-10 cm)
small mottles and large, tube-like burrows are common from 5-10 cm
firm, very silty lutite with numerous forams
Sharp, somewhat mottled

10-51
CALC OOZE
10 YR 6/2 light brownish gray
several large, slightly darker mottles appear in top 8 cm and a few, very small mottles are scattered throughout
compact, silty lutite with scattered forams; forams become larger and fairly abundant in lower 8 cm

end of core



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

Ship: KNR Core No. 26 FF
Expedition 51 Station No. 41
Leg No. 3 Total Core Length 51 cm

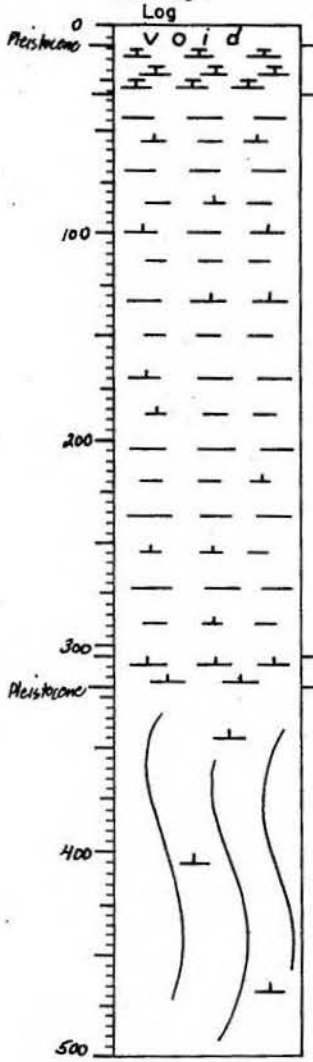
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze | tr | 1 | | | 44 | 5 | 50 | | | tr | tr | tr | | tr |
| 9 | calc ooze | tr | 1 | | | 53 | 3 | 43 | tr | | tr | tr | tr | | |
| 17 | calc ooze | tr | tr | | | 40 | 6 | 53 | | | 1 | tr | tr | tr | |
| 50 | calc ooze | 1 | | | | 36 | 2 | 60 | | | 1 | | | tr | |

## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 42 Core No. 31 GPC
Total Length 1296 cm. Lat. 56° 13.4'N Long. 12° 38.0'W Depth 2619 corr. m.
Core condition EXCELLENT Date Described 4 MAY 76 by H. FARMER
Physiographic location ROCKALL TROUGH, NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-8
VOID
8-32
CALC OOZE
10 YR 6/3 pale brown
no mottling, but a few gray and dark gray laminations
medium size foram sand
Sharp, but non-planar (either disturbed or erosional)
32-305
LAMINATIONS OF SLIGHTLY CALC CLAY (5 Y 4/2) AND CALC CLAY (5/2)
5 Y 4/2 and 5/2 olive grays: varying hues of the above colors appear as large bands (5-20 cm wide); six 5 mm laminations (somewhat distorted) of 5 Y 6/2 light olive gray are present between 37-48 cm; light olive gray also appears in a layer band from 278-281 cm (calc ooze)
mottling is scarce, but very fine olive gray (4/2) flecks show up in some of the lighter colored bands at 37-48 cm, 71-90 cm, 160-170 cm, 200-212 cm, 274-305 cm
the darker bands are a smooth lutite with few, if any, forams, whereas the lighter ones tend to be silty with scattered forams; occasional laminations or pockets (distorted laminations) with common forams can be found; two beds of laminated, detrital silt and fine sand appear at 217-224 cm and 252-257 cm (1-2 cm crack has developed in this bed)
many of the contacts between bands are concave up or disturbed slightly in some other manner
S, distorted
305-320
NANNO OOZE
5 Y 7/2 light gray and 6/2 light olive gray, probably originated as distinct laminations but are severely mixed now
no mottling
very silty lutite
320-1296
CALC OOZE
flow-in of above unit

end of core

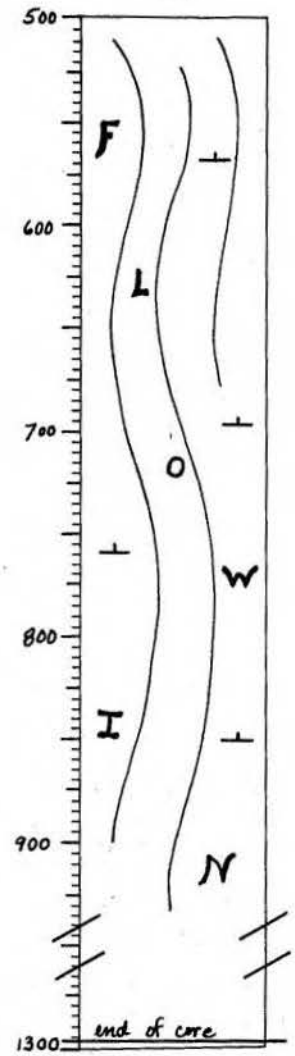


## VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 42 Core No. 31 GPC

Lithologic Log




### Detailed Description

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

Ship: KNR  Core No. 31 GPC

Expedition 51  Station No. 42

Leg No. 3  Total Core Length 1296 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 18 | calc ooze | 1 | | | | 1 | 98 | tr | | | tr | | | tr | |
| 107 | slightly calc clay | tr | | | | 98 | tr | tr | | | 2 | | | | |
| 190* | calc ooze/ detritus | 68 | tr | | | 1 | | | | | 31 | | | | tr |
| 203 | calc clay | tr | | | | 94 | tr | 2 | | | 4 | | | | |
| 220 | detritus | 90 | | | | tr | 1 | tr | | | 9 | | | | |
| 279 | calc ooze | 1 | | | tr | 45 | 1 | 52 | | | 1 | | | | |
| 319 | nanno ooze | tr | | | | 22 | 3 | 75 | | | tr | | | | |

*from fine lamination of silty material

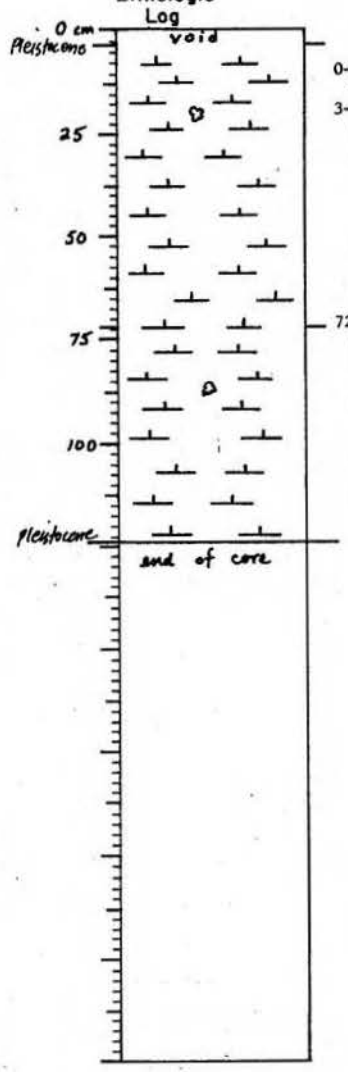


VISUAL CORE DESCRIPTION



Ship KNORR Cruise 51 Leg III Sta. 42 Core No. 31 PG
Total Length 124 cm. Lat. 56° 13.4' N Long. 12° 38.0' W Depth 2619 corr.m.
Core condition EXCELLENT Date Described 4 MAY 76 by H. FARMER
Physiographic location ROCKALL TROUGH, NORTH ATLANTIC

Lithologic Log




Detailed Description

0-3
VOID
3-72
CALC OOZE
10 YR 6/3 pale brown grades gently to 6/2 light brownish gray: in the basal 5 cm, this grades sharply to 5/2 grayish brown and is marbled somewhat with the sediment above: two 5 mm laminations (slightly disturbed) at 6 and 8 cm are brown (5/3)
in general, the colors are smooth, except for some intermottling from 19-25 cm
compact, silty lutite
S
72-124.5
CALC OOZE
2.5 Y 6/2 light brownish gray grades to 5 Y 6/2 light olive gray ( 91 cm)
some marbling and mottling occurs in the transition zone (84-94 cm) between the above colors; also two narrow brown laminations appear at 82 and 83 cm
compact, silty lutite

end of core

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

Ship: KNR

Core No. 31 PG

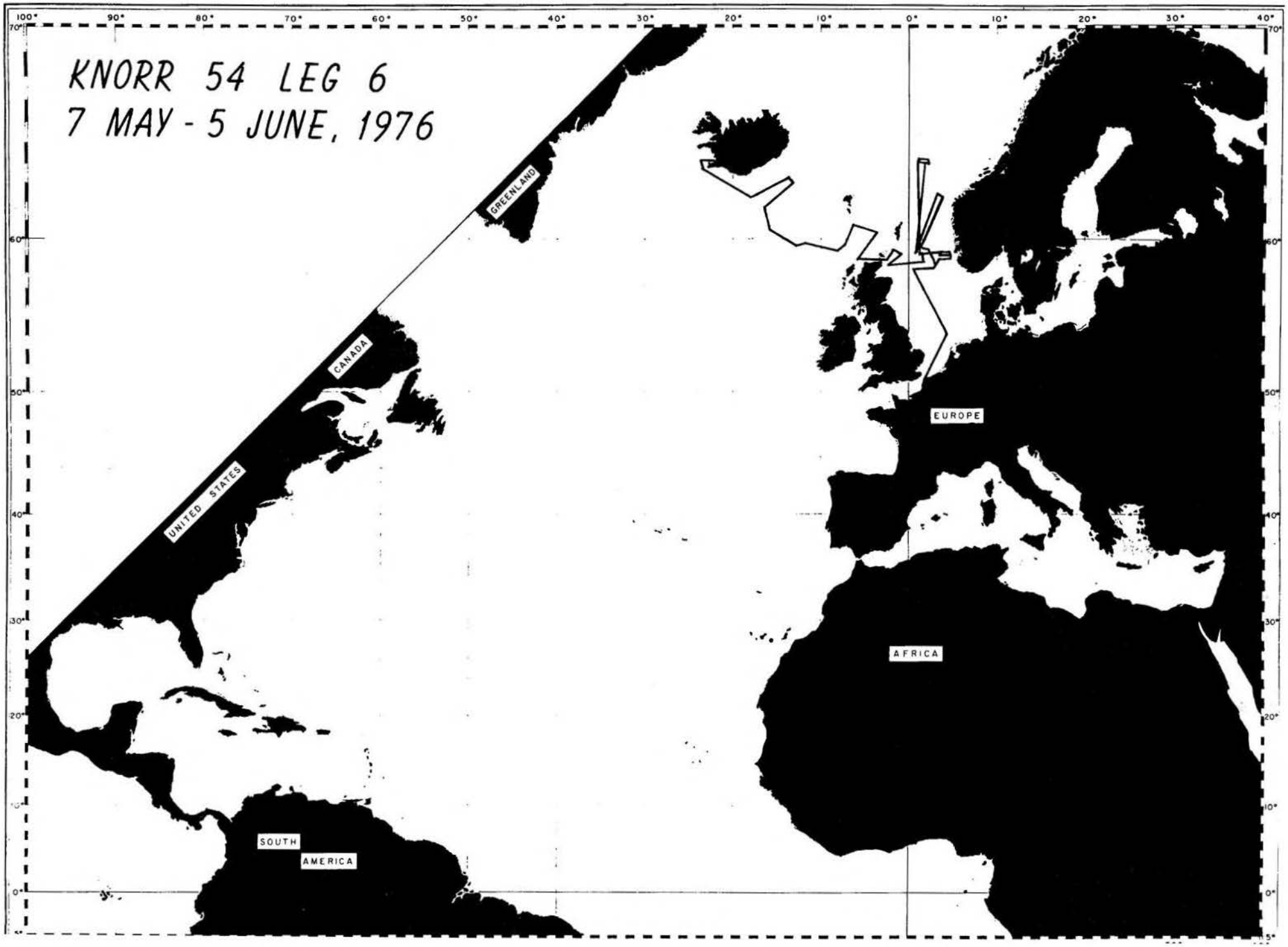
Expedition 51

Station No. 42

Leg No. 3

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 | SILICO FLAG |
| 1 | calc ooze | 2 | | | | 34 | 1 | 60 | | | 3 | tr | | tr | tr |
| 8 | calc ooze | tr | 1 | | | 36 | 1 | 60 | | | 2 | tr | | | tr |
| 54 | calc ooze | tr | | | | 43 | 2 | 54 | | | 1 | tr | tr | tr | |
| 71 | calc ooze | 2 | tr | | | 50 | 2 | 43 | | | 3 | tr | | | |
| 123 | calc ooze | 1 | | | | 30 | 2 | 66 | | | 1 | tr | | tr | |


KNORR 54 LEG 6
7 MAY - 5 JUNE, 1976
GREENLAND
CANADA
UNITED STATES
EUROPE
AFRICA
SOUTH
AMERICA
100°
90°
80°
70°
60°
50°
40°
30°
20°
10°
0°
10°
20°
30°
40°
70°
60°
50°
40°
30°
20°
10°
0°

********** STATION DATA RETRIEVAL ********** PAGE 1
********** DATE: 17:20 JUN 03,'77 ********** **WHOI**

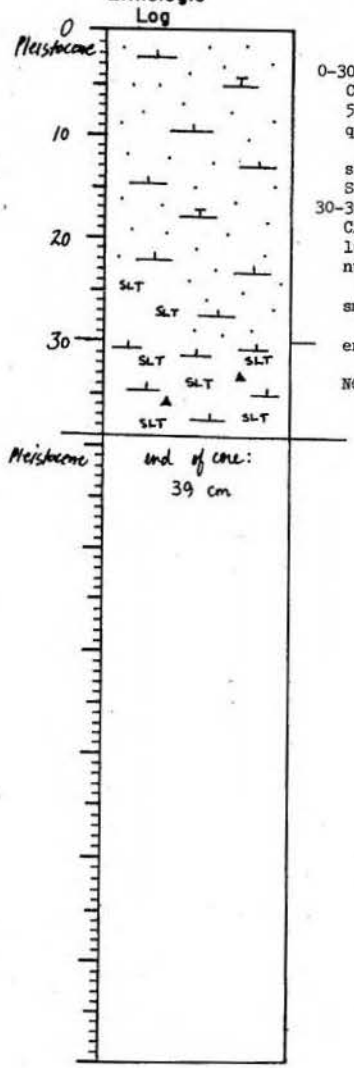
| SHIP | CRUISE | LEG | STATION | SAMPLE NUMBER | DEVICE | DATE YRMODA | LATITUDE | LONGITUDE | FIX TYPE | MARS. DEN SQUARE | CORE OR DREDGE NUMBER | DEPTH | CORE LENGTH OR END DEPTH | DREDGE OR SAMPLE VOLUME | PHYSIO. GRAPHIC PROV. | ROCK OR SED. TYPE | VITA CODE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS CALC.SILIC OOZE | | | | | | | | | | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | SECONDARY SED. TYPE IS CALC RICH | | | | | | | | | | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| 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 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS SILICA RICH | | | | | | | | | | |
| KNR | 54 | 6 | 0100 | 0000 | 19 | 76 6 3 | 63 .0'N | 14 11.9'W | 1 | 218.34 | 0027 | 1526. | 50. | 0000 | 3 | 4839 | 0 | |
| | | | | | **COMMENTS** | | | PRIMARY SED. TYPE IS SILTY-SANDY;SECONDARY SED. TYPE IS FORAM RICH | | | | | | | | | | |
| 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 | 0 | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 19 Core No. 5-BC
Total Length 39 cm. Lat. 58° 26' N Long. 0° 28' E Depth 136 corr. meters
Core condition EXCELLENT Date Described 30 Nov 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




### Detailed Description

0-30
CALC OOZE/DETRITUS
5 Y 4/2 olive gray
quite homogeneous except for a very subtle olive-yellow lamination in top 5 mm
soupy, unconsolidated sand and silt in lutite matrix
S, very disturbed

30-39
CALC OOZE/DETRITUS
10 YR 5/1 gray
numerous, small, lenticular, black mottles (pyrite-rich) appear throughout
smooth, well sorted, fine silt

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 5 BC
Expedition 54 Station No. 19
Leg No. 6 Total Core Length 39 cm

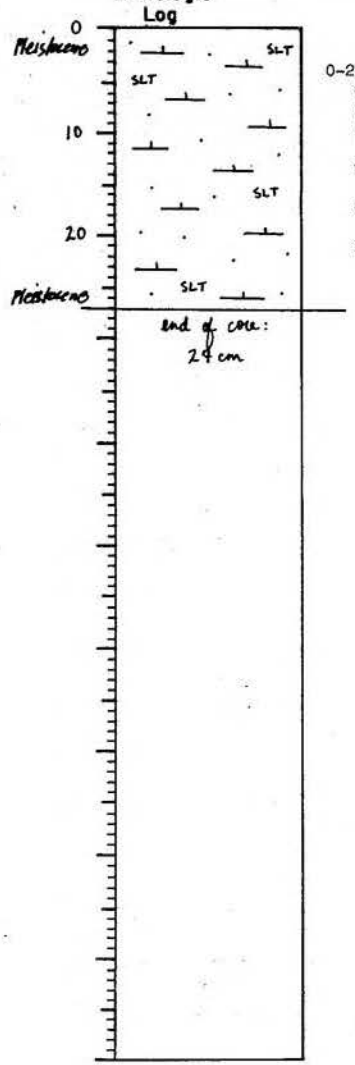
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | PYRITE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | |
| 1 | calc ooze/ detritus | 50 | | | | 5 | 15 | 19 | | | 10 | | | 1 | |
| mottle 37 | calc ooze/ detritus | 38 | | | | 25 | | 1 | | | 29 | | | 1 | 6 |
| 36 | calc ooze/ detritus | 35 | | | | 29 | | 1 | | | 33 | tr | | 1 | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 22 Core No. 6-BC
Total Length 27 cm. Lat. 58° 26.7' N Long. 0° 19.1' E Depth 138 corr. meters
Core condition EXCELLENT Date Described 30 Nov 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




**Detailed Description**

0-27
CALC OOZE/DETRITUS
5 Y 4/2 olive gray
quite homogeneous excepting a very subtle, olive-yellow lamination in the top 5 mm
unconsolidated, fine sand and silt in lutite matrix

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 6-BC
Expedition 54 Station No. 22
Leg No. 6 Total Core Length 27 cm

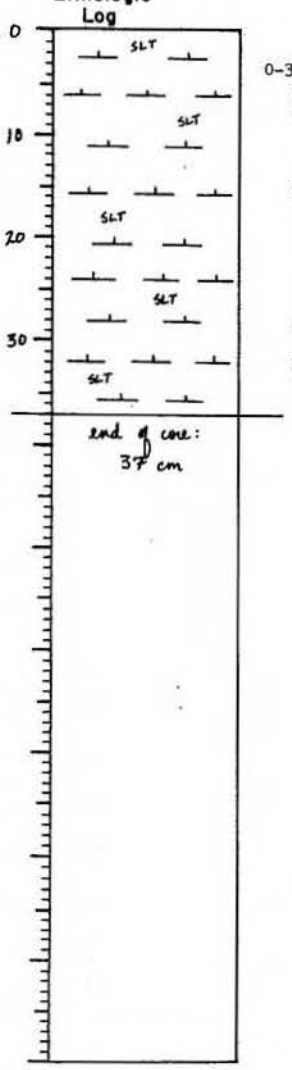
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | calc ooze/ detritus | 35 | | | | 10 | 10 | 25 | | | 20 | tr | | tr | tr |
| 26 | calc ooze/ detritus | 45 | | | | 20 | 5 | 15 | | | 15 | | | tr | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 30A Core No. 7-BC
Total Length 37 cm. Lat. 58° 54.9' N Long. 4° 08.2' E Depth 284 corr. meters
Core condition EXCELLENT Date Described 30 Nov 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




### Detailed Description

0-37
CALC OOZE WITH DETRITUS
10 YR 4/2 dark grayish brown grades to 5 Y 3/2 dark olive gray (~ 3 cm), then 4/2 olive gray (~10 cm)
3 mm lamination of very dark grayish brown (10 YR 3/2) at 0.5 cm
soft, unconsolidated, very silty/sandy lutite; very small, ellipsoidal pellets of a composition apparently identical (?) to the primary sediment are abundant throughout; also, numerous, very fine, transparent spicules are scattered throughout the sediment

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 7-BC
Expedition 54 Station No. 30 A
Leg No. 6 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 | highly calc clay with detritus | 20 | 2* | | | 57 | | 1 | | | 20 | tr | | tr |
| 2.5 | calc ooze | 10 | | | | 45 | 2 | 3 | | | 40 | | | tr |
| 5 | calc ooze with detritus | 20 | | | | 25 | 2 | 12 | | | 35 | | | 5 |
| 36 | calc ooze with detritus | 20 | | | | 43 | | 15 | | | 20 | tr | | 2 |

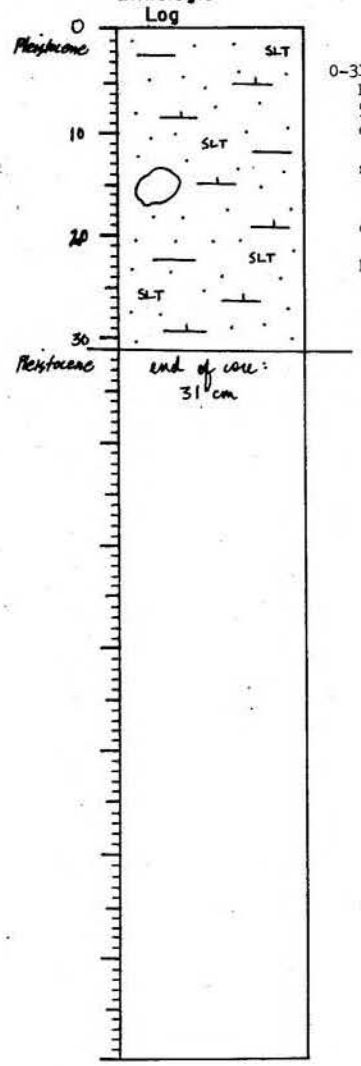
*everything is slightly stained (Mn or Fe?)

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 32 Core No. 8-BC
Total Length 31 cm. Lat. 58° 50.5'N Long. 0° 41.4'E Depth 140 corr. meters
Core condition EXCELLENT Date Described 1 Dec 76 by N. FARMER
Physiographic location NORTH SEA

Lithologic Log




### Detailed Description

0-31
HIGHLY CALC CLAY/DETRITUS
5 Y 4/2 olive gray
quite homogeneous excepting a very subtle, 3mm, olive-yellow lamination at 0.5 cm
soft, unconsolidated, fine sand and silt in lutite matrix; large, 2 cm diameter, rounded stone at 16 cm

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 8-BC
Expedition 54 Station No. 32
Leg No. 6 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 | PYRITE |
| 1 | highly calc clay/detritus | 65 | | | | 10 | 5 | 10 | | | 10 | tr | | tr | |
| 30 | highly calc clay/detritus | 65 | | | | 12 | 5 | 8 | | | 10 | | | tr | tr |

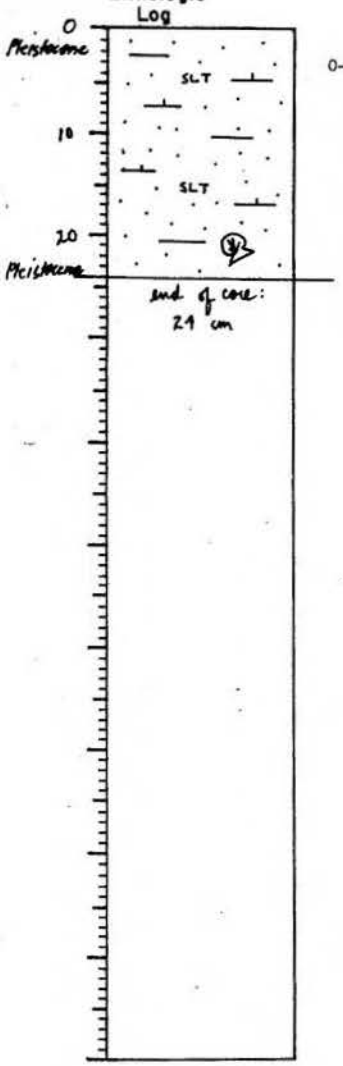
771

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 44 Core No. 9-BC
Total Length 24 cm. Lat. 59° 58'N Long. 0° 8.9'E Depth 134 corr. meters
Core condition EXCELLENT Date Described 1 Dec 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




### Detailed Description

0-24
HIGHLY CALC CLAY/DETRITUS
5 Y 4/2 olive gray
homogeneous throughout
soft, unconsolidated, fine sand and silt in lutite matrix; large, white fragments of bivalve at 21 cm

end of core

NOTE: Core represents subsample of box core

772

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

Ship: KNORR Core No. 9-BC
Expedition 54 Station No. 44
Leg No. 6 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 | PYRITE |
| 1 | highly calc clay/detritus | 62 | | | | 13 | 6 | 7 | | | 12 | | | tr | |
| 23 | highly calc clay/detritus | 54 | | | | 20 | 5 | 10 | | | 10 | tr | | tr | 1 |

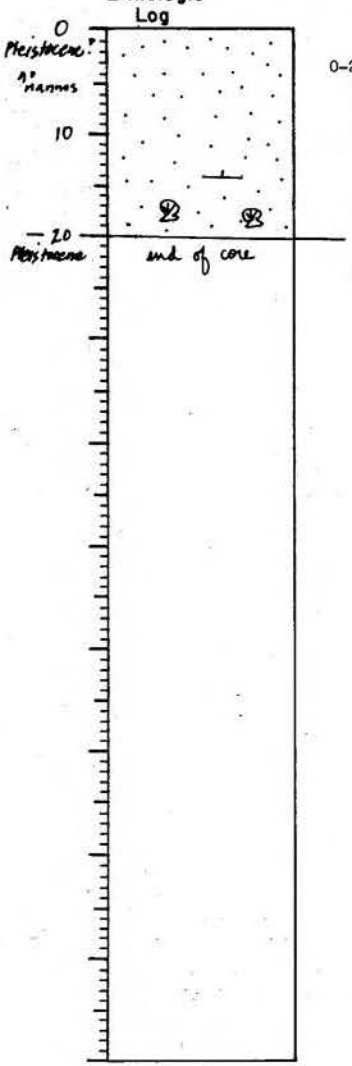
773

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 48 Core No. 10-BC
Total Length 20 cm. Lat. 60° 21.3' N Long. 1° 58.7' E Depth 101 corr. meters
Core condition EXCELLENT Date Described 1 Dec. 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




### Detailed Description

0-20
DETRITUS
5 Y 4/3 olive grades slowly to 4/2 olive gray
no mottling
firmer, fine sand with very little silt; small sea urchin fragment at 3 cm and numerous small to large bivalve fragments in basal 7 cm

end of core

NOTE: Core represents subsample of box core

774

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

Ship: KNORR Core No. 10-BC
Expedition 54 Station No. 48
Leg No. 6 Total Core Length 20 cm

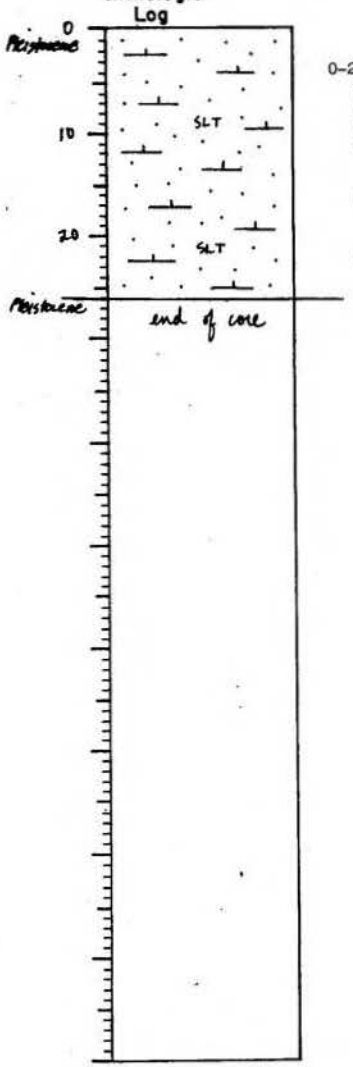
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges | PYRITE |
| 1 | detritus | sand 100 | | | | tr | | tr | | | | | | | |
| 19 | detritus | sand 85 | | | | 6 | tr | 4 | | | 4 | | | tr | 1 |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 59 Core No. 13-BC
Total Length 26 cm. Lat. 58°25.5'N Long. 1°40.0'E Depth 141 corr. meters
Core condition EXCELLENT Date Described 1 Dec 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




**Detailed Description**

0-26
CALC OOZE/DETRITUS
5 Y 4/2 olive gray
homogeneous throughout
very soft, unconsolidated, fine sand and silt in lutite matrix

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 13-BC
Expedition 54 Station No. 59
Leg No. 6 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/ detritus | 45 | | | | 14 | 5 | 15 | | | 20 | | | 1 |
| 25 | calc ooze/ detritus | 45 | | | | 13 | 15 | 7 | | | 20 | | | tr |

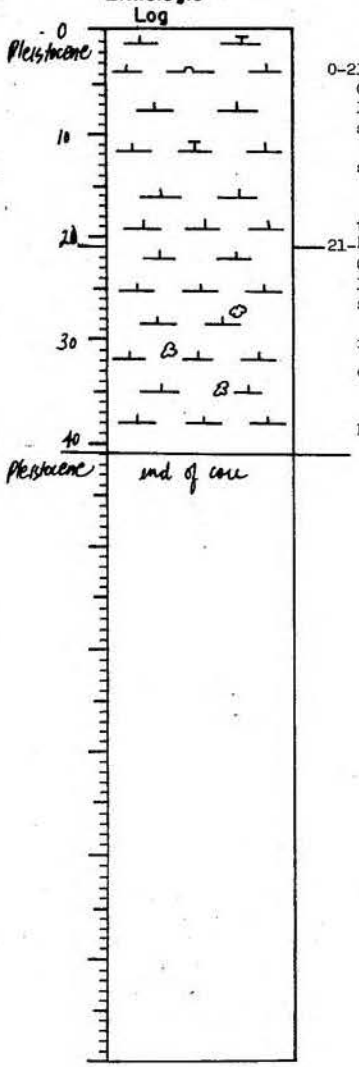
# 777

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 70 Core No. 16-BC
Total Length 41 cm. Lat. 63° 49.5' N Long. 8° 50.9' E Depth 2217 corr. meters
Core condition EXCELLENT Date Described 2 DEC 76 by H. FARMER
Physiographic location SOUTHERN TIP VORING PLATEAU, NORWEGIAN SEA

Lithologic Log




### Detailed Description

0-21
CALC-SILIC OOZE
10 YR 5/3 brown
several small mottles of slightly darker grayish brown appear from 11-20 cm
soft, unconsolidated, fine sand and silt in lutite matrix; numerous, coarse, sand-size, white shell fragments are present throughout
texturally Gradational

21-41
CALC OOZE
10 YR 5/3 brown
small mottles (streaks) of dark grayish brown are present throughout
fairly smooth, unconsolidated, slightly silty lutite

end of core

NOTE: Core represents subsample of box core

# 778

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

Ship: KNORR Core No. 16-BC
Expedition 54 Station No. 70
Leg No. 6 Total Core Length 41 cm

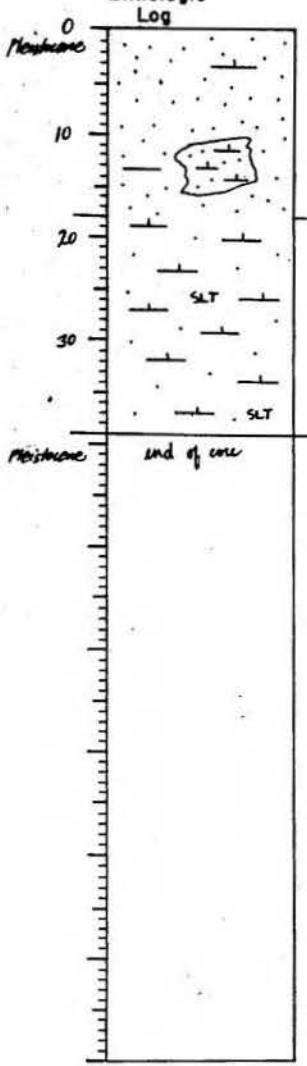
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc-silic ooze | 2 | | | | 25 | 25 | 38 | | | 2 | | 8 | tr |
| 39 | calc ooze | 5 | tr | | | 60 | tr | 1 | | | 34 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 72 Core No. 17-BC
Total Length 39 cm. Lat. 62° 20.9' N Long. 0° 53.7' E Depth 628 corr. meters
Core condition EXCELLENT Date Described 2 Dec 76 by H. FARMER
Physiographic location SOUTHERN TØ VØRING PLATEAU, NORWEGIAN SEA

Lithologic Log




### Detailed Description

0-18
DETRITUS
10 YR 4/2 dark grayish brown
uniform throughout, except large, 4 x 4 cm clast of lower unit from 10-14 cm; also, numerous black grains scattered throughout
firmish, medium sand with lutite matrix; small black pebble at 14 cm
S

18-39
CALC OOZE/DETRITUS
10 YR 5/1 gray
uniform throughout, except 2 x 2 cm clast of upper unit at 23 cm
silty lutite

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 17-BC
Expedition 54 Station No. 72
Leg No. 6 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 |
| 1 | detritus | 73 | | | | 8 | 4 | 12 | | | 2 | 1 | | tr |
| 38 | calc ooze/ detritus | 35 | | | | 35 | | tr | | | 30 | | | tr |

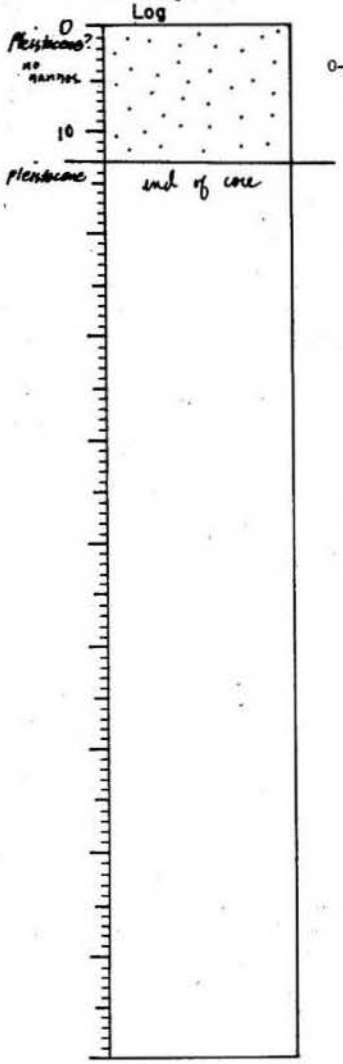
781

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 76 Core No. 18-BC
Total Length 13 cm. Lat. 59° 30.6' N Long. 0° 20.0' E Depth 121 corr. meters
Core condition EXCELLENT Date Described 2 Dec 76 by H. FARMER
Physiographic location NORTH SEA

Lithologic Log




**Detailed Description**

0-13
DETRITUS
5 Y 4/2 olive gray
uniform throughout
medium sand with some lutite

end of core

NOTE: Core represents subsample of box core

782

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

Ship: KNORR Core No. 18-BC
Expedition 54 Station No. 76
Leg No. 6 Total Core Length 13 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | detritus | 85 | | | | 2 | 2 | 7 | | | 3 | 1 | | tr |

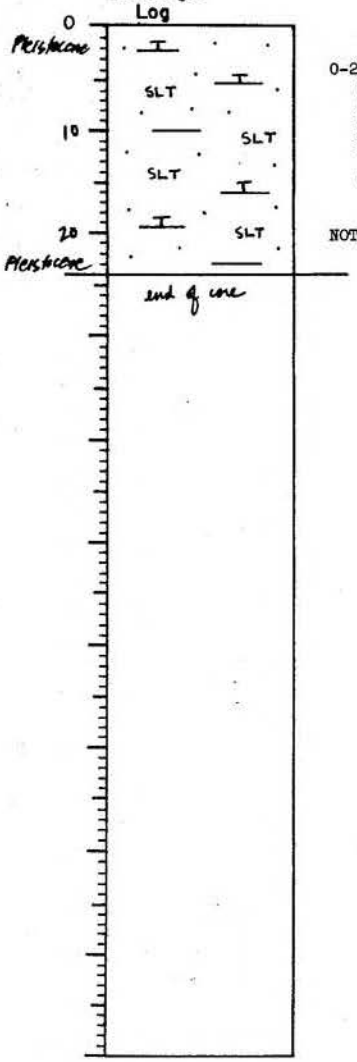
783

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 91 Core No. 21-BC
Total Length 24 cm. Lat. 59° 41.2' N Long. 6° 57.2' W Depth 1068 corr. meters
Core condition EXCELLENT Date Described 3 Dec 76 by H. FARMER
Physiographic location WYVILLE THOMPSON RIDGE, NORTH ATLANTIC

Lithologic Log




**Detailed Description**

0-24
CALC OOZE/DETRITUS
5 Y 5/2 olive gray
homogeneous throughout
firm, fine-medium sand

end of core

NOTE: Core represents subsample of box core

784

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

Ship: KNORR Core No. 21-BC
Expedition 54 Station No. 91
Leg No. 6 Total Core Length 24 cm

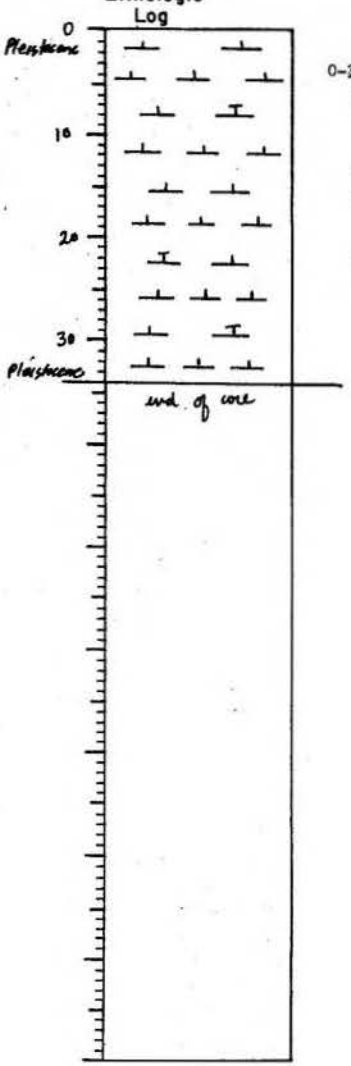
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc ooze/ detritus | 44 | | | | 5 | 36 | 10 | | | 4 | tr | | 1 |
| 23 | calc ooze/ detritus | 30 | | | | 15 | 38 | 15 | | | 2 | | | tr |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 92 Core No. 22-BC
Total Length 34 cm. Lat. 59° 11.7' N Long. 8° 57.5' W Depth 1498 corr. meters
Core condition EXCELLENT Date Described 2 Dec 76 by H. FARMER
Physiographic location NORTHERN ROCKALL PLATEAU

Lithologic Log




### Detailed Description

0-34
CALC OOZE
5 Y 6/2 light olive gray and 5/2 olive gray; intermarbling of the above colors throughout with a slightly yellowish band from 3-7 cm
fairly compact, silty lutite

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 22-BC
Expedition 54 Station No. 92
Leg No. 6 Total Core Length 34 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED 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 | | | | 30 | 20 | 43 | | | 3 | | | 1 |
| 33 | calc ooze | 5 | | | | 30 | 15 | 40 | | | 10 | | | tr |

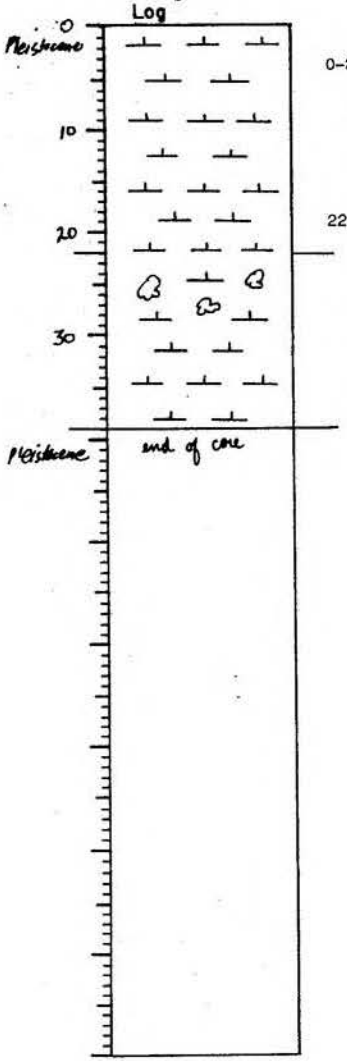
787

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 94 Core No. 24-BC
Total Length 39 cm. Lat. 59° 26.0' N Long. 13° 6.6' W Depth 1290 corr. meters
Core condition EXCELLENT Date Described 4 Dec 76 by H. FARMER
Physiographic location ROCKALL PLATEAU, N. ATLANTIC

Lithologic Log




### Detailed Description

0-22
CALC OOZE
5 Y 6/1 gray
upper 7 cm are slightly browner with a brown mottle at 5 cm
soft, silty lutite; small, black, angular pebble fragment at 16 cm
S
22-39
CALC OOZE
5 Y 5/2 olive gray, grades slowly to 2.5 Y 5/2 grayish brown
several large, gray mottles appear down to 32 cm
soft, silty lutite becomes less silty in basal 7 cm
end of core

NOTE: Core represents subsample of box core

788

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

Ship: KNORR Core No. 24-BC
Expedition 54 Station No. 84
Leg No. 6 Total Core Length 39 cm

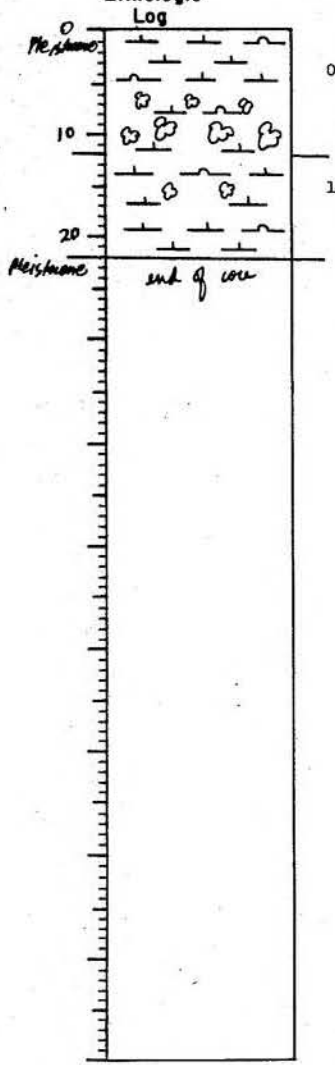
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | calc ooze | 5 | | | | 20 | 12 | 58 | | | 5 | tr | | tr |
| 38 | calc ooze | 4 | tr | | | 60 | 3 | 3 | | | 30 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 96 Core No. 25-BC
Total Length 22 cm. Lat. 60° 8.6' N Long. 15° 1.4' W Depth 1295 corr. meters
Core condition EXCELLENT Date Described 4 Dec 76 by H. FARMER
Physiographic location ROCKALL PLATEAU, N. ATLANTIC

Lithologic Log




**Detailed Description**

0-12
CALC-SILIC OOZE
10 YR 6/3 pale brown
intense brown (5/3) marbling is present from 5-12 cm
soft, unconsolidated, very silty lutite
S

12-22
CALC-SILIC OOZE
10 YR 7/1 light gray
small, yellowish-brown mottles appear from 14-16 cm
soft, very silty lutite

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 25-BC
Expedition 54 Station No. 96
Leg No. 6 Total Core Length 22 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 silic ooze | 1 | | | | 20 | 10 | 58 | | | 1 | 9 | 1 | | tr |
| 21 | calc silic ooze | tr | | | 1* | 9 | 18 | 60 | | | | 11 | 1 | | tr |

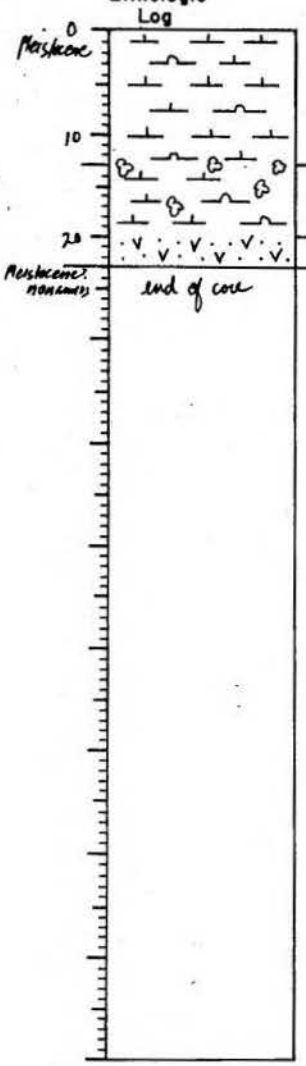
*altered

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 98 Core No. 26-BC
Total Length 23 cm. Lat. 60° 59.7 N Long. 16° 5.5' W Depth 2435 corr. meters
Core condition EXCELLENT Date Described 5 Dec 76 by H. FARMER
Physiographic location ICELANDIC INSULAR RISE, NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-13
CALC-SILIC OOZE
10 YR 6/3 pale brown
no mottling
quite soft, very sandy lutite
G, mottled with lower unit

13-20
CALC-SILIC OOZE
10 YR 4/3 dark brown
several mottles of brown and pale brown
soft, quite sandy lutite; numerous black specks throughout (ash? from lower unit)
S

20-23
DETRITUS/VOLCANIC ASH
10 YR 2.5/1 black
homogeneous
coarse, ash-rich sand

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 26-BC
Expedition 54 Station No. 98
Leg No. 6 Total Core Length 23 cm

| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | | SILICO FLAG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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-silic ooze | 3 | | | 1* | 14 | 10 | 60 | | | 2 | 10 | tr | tr | tr |
| 18 | calc-silic ooze | 5 | 2 | | 3* | 13 | 15 | 50 | | | 2 | 10 | tr | tr | tr |
| 22 | detritus/ volcanic ash | 44 | | | 44* | 1 | 10 | 1 | | | | | | tr | |

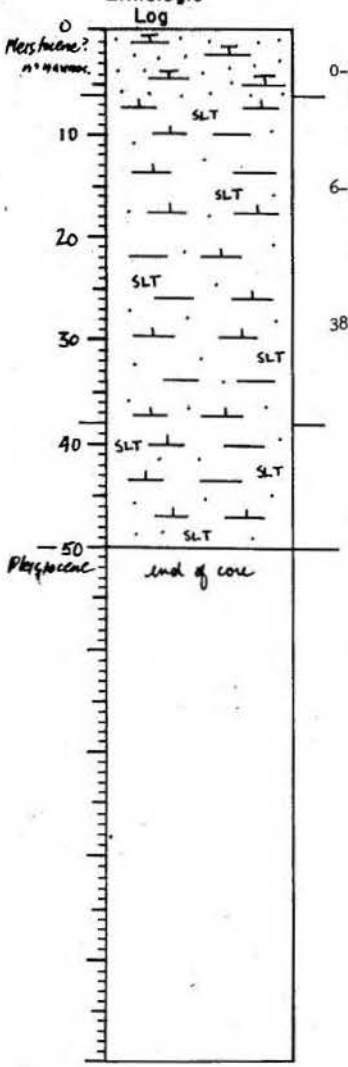
*altered

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 100 Core No. 27 - BC
Total Length 50 cm. Lat. 63° 0.0' N Long. 14° 11.9' W Depth 1526 corr. meters
Core condition EXCELLENT Date Described 4 Dec 76 by H. FARMER
Physiographic location ICELANDIC SLOPE

Lithologic Log




### Detailed Description

0-6
DETRITUS
10 YR 4/3 brown
no mottling
coarse sand
S

6-38
HIGHLY CALC CLAY/DETRITUS
10 YR 5/3 brown
no mottling
somewhat compacted, silty lutite; several lithified lumps of lutite are found between 14-27 cm
S

38-50
HIGHLY CALC CLAY/DETRITUS
5 Y 4/2 olive gray
no mottling
smoother, slightly silty lutite

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 27-BC
Expedition 54 Station No. 100
Leg No. 6 Total Core Length 50 cm

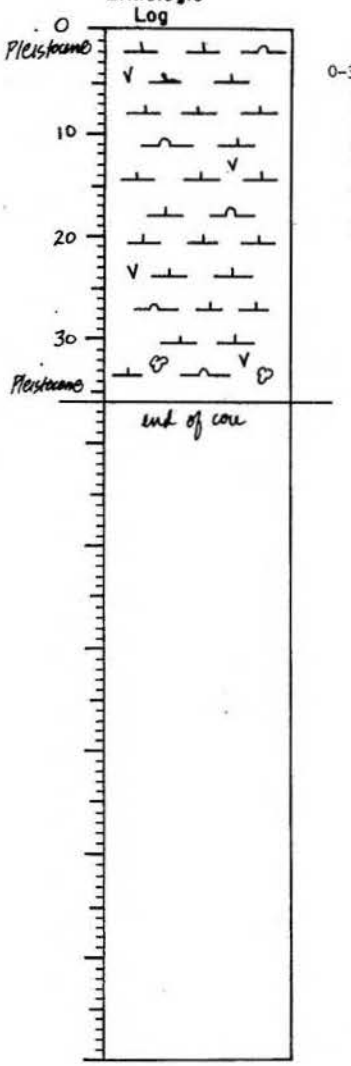
| LEVEL | SEDIMENT TYPE | ESTIMATED ABUNDANCES (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Inorganic Material | | | | | Biogenous Material | | | | | | | |
| | | Silt & Sand | | | | | Calcareous | | | | | Siliceous | | |
| | | Detrital grains | Micronodules | Zeolites | Volcanic shards | Clay | Forams | Nannofossils | Pteropods | Discoasters | Others | Diatoms | Radiolaria | Sponges |
| 1 | detritus | 65 | | | | tr | 35 | tr | | | | | | tr |
| 12 | highly calc clay/detritus | 42 | | | 1 | 29 | 3 | 3 | | | 22 | | | tr |
| lump 20 | highly calc clay/detritus | 60 | | | | 15 | | | | | 25 | | | |
| 47 | highly calc clay/detritus | 48 | | | | 24 | 2 | 2 | | | 24 | | | |

## VISUAL CORE DESCRIPTION

Page 1 of 1

Ship KNORR Cruise 54 Leg 6 Sta. 101 Core No. 28-BC
Total Length 36 cm. Lat. 61° 55.7' N Long. 17° 13.2' W Depth 2242 corr. meters
Core condition EXCELLENT Date Described 4 Dec 76 by H. FARMER
Physiographic location ICELANDIC INSULAR RISE, NORTH ATLANTIC

Lithologic Log




### Detailed Description

0-36
CALC-SILIC OOZE
5 Y 4/2 olive gray, grades to 4/1 dark gray (~ 6 cm)
a few subtle mottles appear in lower 10 cm
soft, very sandy lutite

end of core

NOTE: Core represents subsample of box core



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

Ship: KNORR Core No. 28-BC
Expedition 54 Station No. 101
Leg No. 6 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 | SILICO FLAG |
| 1 | calc-silic ooze | 5 | | | 7 | 25 | 20 | 28 | | | 5 | 9 | tr | 1 | tr |
| 35 | calc-silic ooze | 10 | | | 7 | 20 | 10 | 33 | | | 10 | 10 | tr | tr | tr |

UNCLASSIFIED 4/77

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

| REPORT DOCUMENTATION PAGE | | READ INSTRUCTIONS BEFORE COMPLETING FORM |
|---|---|---|
| 1. REPORT NUMBER<br>WHOI-77-26 | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER |
| 4. TITLE (and Subtitle)<br>DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5 | | 5. TYPE OF REPORT & PERIOD COVERED<br>Technical |
| | | 6. PERFORMING ORG. REPORT NUMBER |
| 7. AUTHOR(s)<br>Prepared by Staff of Sea Floor Samples Laboratory; edited by D. A. Johnson and A. H. Driscoll | | 8. CONTRACT OR GRANT NUMBER(s)<br>N00014-74-C-0262;<br>OCE 76-81488 |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Woods Hole Oceanographic Institution<br>Woods Hole, MA 02543 | | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS<br>NR 083-004 |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br>NORDA<br>National Space Technology Laboratory<br>Bay St. Louis, MS 39529 | | 12. REPORT DATE<br>April 1977 |
| | | 13. NUMBER OF PAGES<br>796 pages |
| 14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office) | | 15. SECURITY CLASS. (of this report)<br>Unclassified |
| | | 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE |

16. DISTRIBUTION STATEMENT (of this Report)

Prepared for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

1. Cores
2. Sediment
3. Deep-Sea Core Description

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slides analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-014-6601

UNCLASSIFIED 4/77
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

Woods Hole Oceanographic Institution
WHOI-77-26

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5 prepared by the Staff of the Sea Floor Samples Laboratory and edited by D. A. Johnson and A. H. Driscoll. 796 pages. April 1977. Prepared for the Office of Naval Research under Contract N00014-74-C-0262; NR 083-004 and for the National Science Foundation under Grant OCE 76-81488.

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slide analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

1. Cores
2. Sediment
3. Deep-Sea Core Description

I. Sea Floor Samples Laboratory
II. Johnson, D. A.
III. Driscoll, A. H.
IV. N00014-74-C-0262; NR 083-004
V. OCE 76-81488

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-77-26

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5 prepared by the Staff of the Sea Floor Samples Laboratory and edited by D. A. Johnson and A. H. Driscoll. 796 pages. April 1977. Prepared for the Office of Naval Research under Contract N00014-74-C-0262; NR 083-004 and for the National Science Foundation under Grant OCE 76-81488.

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slide analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

1. Cores
2. Sediment
3. Deep-Sea Core Description

I. Sea Floor Samples Laboratory
II. Johnson, D. A.
III. Driscoll, A. H.
IV. N00014-74-C-0262; NR 083-004
V. OCE 76-81488

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-77-26

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5 prepared by the Staff of the Sea Floor Samples Laboratory and edited by D. A. Johnson and A. H. Driscoll. 796 pages. April 1977. Prepared for the Office of Naval Research under Contract N00014-74-C-0262; NR 083-004 and for the National Science Foundation under Grant OCE 76-81488.

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slide analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

1. Cores
2. Sediment
3. Deep-Sea Core Description

I. Sea Floor Samples Laboratory
II. Johnson, D. A.
III. Driscoll, A. H.
IV. N00014-74-C-0262; NR 083-004
V. OCE 76-81488

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-77-26

DESCRIPTIONS OF WHOI SEDIMENT CORES, VOLUME 5 prepared by the Staff of the Sea Floor Samples Laboratory and edited by D. A. Johnson and A. H. Driscoll. 796 pages. April 1977. Prepared for the Office of Naval Research under Contract N00014-74-C-0262; NR 083-004 and for the National Science Foundation under Grant OCE 76-81488.

This report supplements Volumes 1-4 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975). It contains visual descriptions and smear slide analyses for all cores received in the geological samples collection of the Woods Hole Oceanographic Institution between November, 1973 and November, 1976. Approximately 368 sample localities from the North Atlantic, Mediterranean, and South Atlantic are represented. Charts of ships' tracks and updated computer listings of all cores in the W.H.O.I. collection are also included.

1. Cores
2. Sediment
3. Deep-Sea Core Description

I. Sea Floor Samples Laboratory
II. Johnson, D. A.
III. Driscoll, A. H.
IV. N00014-74-C-0262; NR 083-004
V. OCE 76-81488

This card is UNCLASSIFIED