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DESCRIPTIONS OF WHOI SEDIMENT CORES

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TECHNICAL REPORT

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Approved for Distribution

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ABSTRACT

This report presents visual core descriptions and smear slide analyses for all cores in the Woods Hole Oceanographic Institution geological samples collection which were obtained prior to November 1973. Approximately 1000 coring stations from the Atlantic, Indian and Pacific oceans and adjacent seas are represented. Charts of ships' track and computer listings of all cores are also included.

INTRODUCTION

A. Scope and Format of this Report

This report presents visual core descriptions and smear slide analyses for all cores in the Woods Hole geological samples collection which were obtained prior to November 1973. This compilation represents approximately 1000 coring stations from the Atlantic, Indian and Pacific oceans and adjacent seas. 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.

When this project was initiated in mid-1972, we quickly discovered that the cores obtained prior to this time had been labeled, cataloged, and described with varying degrees of accuracy and thoroughness. Consequently, we devoted a major effort toward cross-checking all logistical data for each core and verifying that the cores have been properly labeled. Any inconsistencies or contradictions that could not be resolved are indicated on the visual description sheets.

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
GPC - Giant piston core
GGC - Giant gravity core
PG - Pilot gravity core
FF - Free-fall core
KC - Camera (pogo) core
HC - Hydro core
KK - Kasten core
D - Dredge

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 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 stations 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.

In spite of the varied condition of the core collection when this project was begun, we have applied uniform procedures in completing the core descriptions and microscopic analyses of smear slides. A more detailed discussion of the W.H.O.I. procedures for shipboard core handling, core archiving, core describing, and core photography is included in the following technical 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) Gilman, J. A. (1973), "Procedures for photographing WHOI sediment cores", Woods Hole Oceanogr. Inst. Tech. Memorandum WHOI-1-73, 11 pp.

We anticipate that these volumes of core descriptions will be updated periodically with subsequent volumes for cores obtained following November 1973. These updates will be distributed to all persons receiving this initial set of volumes.

In the following sections we explain the procedures, symbols, and abbreviations used in preparing core description and smear slide information.

B. Core Description Procedures

1. Visual description

Core analysis begins with a visual description. The entire core is laid out in the correct order of sections, and proper labeling is verified. The core describer then subdivides the core into units, which may be distinguished from each other by lithology, color, texture, or special features.

A unit, once decided upon, is described macroscopically. The bottom contact is classified as gradational (G) or sharp (S), the latter being defined as a transition to the next lower unit within one cm. Sharp bottom contacts are further described as horizontal (H), inclined (I), mottled, irregular, or convex upward.

The color of the unit is systematically identified by comparison with the Munsell Soil Color Chart. Both the color name and its tonal composition number are recorded (e.g. pale brown, 10YR 7/3). In some cases, more than one color may be dominant, excluding mottles or burrows; each noteworthy color is recorded in such an instance. When a multitude of fine laminations is present, only the dominant color is recorded.

Mottles are often present and may occur in sizes ranging from small specks several mm across to irregular patches with dimensions of several cm. Mottles are commonly round or oblong, with a color and/or texture differing from that of the surrounding sediment. Many of these are worm burrows but are identified as such only when the core describer is very certain of this. All mottles are described as to depth in core, color, size and abundance (few, common, extensive).

Textural notation includes several descriptive parameters, such as grain size and the amount of dehydration, compaction, and lithification. Sediment characteristics such as "dry", "hard", "soupy", or "firm" are given on the basis of feel and visual appearance. In many cases these descriptive terms may reflect the handling and storage history of the core, rather than conditions at the site of deposition. Grain size

parameters used are: lutite (<4μ), silt (4μ - 62μ), sand (62μ - 2 mm), and gravel (>2 mm). Although a unit occasionally contains only one size range, grain size often varies enough to require a combination of the individual textural terms. In this instance the predominant size is indicated along with a modifying adjective. For example, "silty lutite" indicates that lutite predominates with a lesser amount of terrigenous detritus, authigenic minerals, volcanic shards, or microfossil tests that are silt-sized. In the majority of WHOI sediment cores lutite-sized sediment does predominate, with minor components of silt most readily detected by noting a gritty texture when a small sample is placed between the teeth. Subsequent microscopic examination of smear slides is used to determine the lithology and relative abundance of silt- and sand-sized components. Sand and gravel are distinguishable through a magnifying glass and to the unaided eye. Estimation of sizes within the sand range is accomplished by comparison with vials of sieved, standardized sands. Relative abundance of forams is estimated based on macroscopic core examination if the core is moist and fresh, and it is designated by one of the following relative abundance terms: "scattered", "few", "common", "abundant", or "foram sand".

A number of additional observations that may be of significance 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. Occasionally a unit is totally composed of very thin laminations. Since description of individual laminations would be far too tedious, the overall color(s), texture, and any rhythmic sequence of the laminations are noted.

Poor core recovery, washed sediment, or flow-in are also included as special features. Washed sediment usually occurs at the top of a core and commonly results from excess water and subsequent disturbance of the sediment. Poor core recovery

or extreme post-coring desiccation may also be indicated by voids, distorted sediments, or pieces of lithified sediment that have obviously become disoriented. 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. Tell-tale signs of flow-in are thin, linear features (variations in color or texture) that extend vertically for several cm or more. Lengths of extreme homogeneity in a core may also suggest flow-in. Verification of flow-in can be obtained by x-radiography if flow-in is suspected but cannot be demonstrated visually. Occasional multiple penetrations of either the pilot core or the piston core have been noted.

"Special features" also includes manganese nodules, organic-rich sapropel-like layers, shell fragments, pyritized worm burrows, and other unusual lithologic features that may be encountered.

2. Smear slide analysis

Smear slides have been prepared and analyzed for all cores with the exception of those from the hot brine areas of the Red Sea which contain amorphous metallic oxides. Slides are routinely taken 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. Smear slides are prepared by smearing a small amount of sediment on a 1" x 3" glass slide, drying on a hot plate, and covering with Caedax and a cover slip. Slides are then placed in a 65°C oven overnight for permanent curing.

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, referring to the guidelines for component identification which are outlined on the following pages. Standardized smear slides and frequent confirmations between describers give some assurance that percentages are being estimated with some degree of accuracy and 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

abundance of each component appears to change within a given core. Quantitative usage of these numbers, particularly for core-to-core comparisons, is not justified and may be misleading. The coarser components in particular, such as whole foraminiferal tests, are generally under-represented in smear slide preparation, and consequently a considerable bias may be introduced during sample preparation itself.

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		

(a) DETRITAL GRAINS - Mineral grains eroded from a source rock, transported and deposited; may be derived from either terrestrial or marine sources. Fine-grained material may be transported by wind over long distances.

Occurrence - Downcurrent or downslope from sources; common near continental margins and volcanically active regions.

Size - Silt through sand.

Color - Generally speaking, exact identification of mineral grains is more difficult when viewing whole grains than when viewing thin sections. Characteristic colors will be found under plane polarized light, but color and birefringence under crossed nicols are unpredictable due to variable grain thickness. Quartz is perhaps the most common of the detrital minerals, with feldspars and pyroxenes also encountered. Opaque minerals may be common, particularly near continental margins.

Distinctive features - Shape, color, birefringence, relief, refractive index.

(b) MICRONODULES - Microscopic aggregates of chemically precipitated oxides of Mn, Fe, Ni, Co, Cu, and other metals.

Occurrence - Widespread; most abundant in areas of slow deposition, beneath strong bottom currents, and near submarine volcanoes.

Size - Silt to fine silt, commonly 10-25 μ. Easily broken in slide preparation.
Color - Thickest grains are opaque; faintly yellowish to reddish brown in thinner grains.
Form - Grains are subrounded, often with ragged edges.
Distinctive Features - Color and form.

(c) ZEOLITES - Euhedral crystals of hydrous sodium-calcium-aluminum silicates.
Occurrence - Formed in pillow basalts, weathered and deposited in sediments (rare). Also may be formed authigenically in clay-rich sediments, in which case abundance usually increases with depth in in the core.
Size - Normally fine to coarse silt.
Color - Colorless under plane polarized light, but may be pinkish due to presence of iron oxides. Optical properties under crossed nicols are varied. Some appear faintly yellowish gray; smaller grains are gray. Some exhibit parallel extinction. Quite small (clay-sized) particles do not transmit cross-polarized light.
Form - Predominantly elongated, needle-like crystals occasionally showing interpenetrating twins; radiating crystal aggregates are common.
Distinctive Features - Form and size. Low relief and birefringence.

(d) VOLCANIC SHARDS - Amorphous mineral grains (mineraloids) formed at chilled contacts of lava; may be derived from pumice, or directly from volcanic ash falls.
Occurrence - Near volcanic sources, e.g. continental volcanoes, island arcs, and oceanic ridges, transported by wind or water. Fine fraction may be distributed world-wide.
Size - Silt to medium sand.
Color - Generally colorless, but can be yellowish, yellowish brown, brown, or greenish when altered (hydrated) to form the mineraloid palagonite.
Form - Angular, irregular to conchoidal fracture; no cleavage; sometimes thin and sheet-like.
Distinctive Features - Low relief; isotropic; birefringence very rare - only in strained glass.

(e) PYRITE - Iron sulphide mineral formed in situ during incomplete decomposition of organic material in a reducing environment.

Occurrence - Anoxic basins contain the greatest concentrations of pyrite, but any marine sediment low in free oxygen and containing large amounts of organic material can produce pyrite. Sometimes seen as a partial to total replacement of microfossil tests.

Size - Fine silt.

Color - Completely opaque; spherical forms show a thin gold dispersion halo when viewed with a substage converging lens.

Form - Spherical, cubic, or irregular; often grouped together in raspberry-like framboids. Interpenetration twins are also common.

Distinctive Features - All sizes and shapes are opaque, distinguishing these from manganese micronodules. Brassy under reflected light.

(f) CLAY - For purposes of smear slide work, "clay" is a size term that refers to both clay minerals and other components of size <4 μ.

Occurrence - All marine environments, but most significant near terrigenous source-areas and within central gyres away from productive regions.

Size - <4 μ

Color - Those grains that can be resolved are grayish, brownish, or at least form a faint groundmass. Quartz, feldspar or calcite can sometimes be resolved in clay sizes.

Form - Smooth and irregular in largest sizes; majority of clays produce a groundmass at 100-400X.

Distinctive Features - Size, first-order gray birefringence under crossed nicols.

BIOGENIC COMPONENTS

(g) FORAMINIFERA - One-celled microscopic to macroscopic zooplankton that construct chambered tests of calcium carbonate or aggregated mineral grains.

Occurrence - All marine environments down to 4 or 5 km water depth. Calcareous forms generally absent below 5 km.

Size - Range of 25 to 1000 μ; usually 25-100 μ in smear slides.

Color - Carbonate tests are colorless to white, sometimes faintly yellowish brown in largest sizes. High relief. High birefringence. Agglutinated forams have the characteristics of the detrital grains used in their construction.

Form - Several chambers, often rounded to subrounded, which may be arranged in a great variety of ways.

Distinctive Features - Almost all calcareous species exhibit high birefringence with a N-S, E-W oriented extinction cross under cross-polarized light. This extinction pattern perhaps diminishes in forams from water depths near the carbonate compensation depth. Agglutinated tests will have the extinction characteristics of the component grains.

(h) NANNOFOSSILS - A collective term for coccoliths and other small algal fossils, usually calcareous.

Occurrence - All marine environments above carbonate compensation depth. Absent below ~5 km in many regions.

Size - 2-20 μ.

Color - Colorless with low relief.

Form - Discoidal or toroidal plates, generally perforated.

Distinctive Features - With a bright light source and cross-polarized light, coccoliths are gray with a distorted extinction cross; the horseshore-shaped ceratoliths which indicate a late Neogene age, are white to very pale reddish yellow under crossed nicols.

(i) DISCOASTERS - Calcareous nannofossils that are remains of pre-Pleistocene organisms.

Occurrence - Paleocene to late Pliocene sediments; rarely preserved below 5 km water depth. Often reworked into Pleistocene sediments; consequently their presence is not necessarily indicative of a pre-Pleistocene age of deposition.

Size - 10-35 μ; usually about 20 μ in diameter, some older species are slightly larger.

Color - Colorless, high relief.

Form - Star-shaped or rosette-shaped with four, five, six or more points, the tips sometimes bifurcated.

Distinctive Features - High relief, but show up only very faintly gray under bright cross-polarized light. Very distinctive forms. Useful for biostratigraphy in Tertiary sediments. Often not visible under crossed nicols.

(j) PTEROPODS - Pelagic molluscs with conically shaped aragonite tests up to several mm in length.

Occurrence - Generally in shallow (<2600 m) depths, with abundance decreasing with water depth due to dissolution.

Size - 5μ - 5 mm; silt to fine sand in smear slides (easily broken in slide preparation).

Color - One type is colorless with high relief, the other is greenish brown.

Form - Two forms, at least, are found: the colorless type breaks up into regular, rectangular "slivers"; the colored species are larger, platey and irregularly shaped, and have a fine, grainy surface texture with many cracks.

Distinctive Features - The regular fragments resemble calcite, with high birefringence; the others are very faint gray and show four extinction bars as the sample is rotated under cross-polarized light. Usually fairly large, irregularly-shaped fragments.

(k) OTHERS - This category is reserved for calcareous fragments that appear biogenic, but which have been altered by fragmentation, dissolution, or recrystallization so as to preclude precise identification.

(l) DIATOMS - Microscopic plants that grow tests of amorphous silica.

Occurrence - To some extent in almost all marine environments, but in greatest abundance in polar waters and in areas of upwelling.

Size - 5-150 μ.

Color - Colorless.

Form - Varied; large circular discs or plates with regularly-spaced hexagonal holes; others are elongated, elliptical, over 100 μ, with internal structuring; some species are triangular, others semicircular. Symmetry is either radial or bilateral.

Distinctive Features - Form; do not transmit cross-polarized light.

(m) RADIOLARIA - Microscopic siliceous zooplankton.

Occurrence - Worldwide; especially common in polar regions and areas of upwelling.

Size - silt; 50 μ to 200 μ, with rare forms up to 1 mm.

Color - Colorless, with high relief.

Form - Extremely varied. Often spherical, discoid, or conical. Skeletons have holes.

Distinctive Features - Often higher relief than diatoms. Rads almost always show a third dimension, and have less obvious symmetry than diatoms. Do not transmit cross-polarized light. Thickness of skeletal bars in relation to pore size is much greater than for silicoflagellates.

(n) SPONGES - Multi-celled marine invertebrates. Nearly all sponges possess internal skeletal elements, termed spicules, which may be either calcareous, siliceous, or organic. Individual siliceous spicules are the forms most commonly found preserved in marine sediments.

Occurrence - Siliceous spicules may be present in sediments from all depths of water; most common in deep regions where solution has removed the calcareous components.

Size - Up to 500 μ long.

Form - Slender and smooth spines, with straight edges, often with a canal extending lengthwise along the center; some spicules have several points. Several forms of spicules may be attached to spherules of silica. These spherules frequently break away and are frequently mistaken for tektites. They are, however, not tear-shaped but perfect spheres.

Distinctive Features - Form; may be distinguished from radiolarian spines by the presence of the central canal, siliceous species do not transmit cross-polarized light.

(o) SILICOFLAGELLATES - Siliceous phytoplankton.

Occurrence - May be found in small numbers along with diatoms.

Size - 5-60 μ; silt.

Color - Colorless with high relief.

Form - Simple arrangement of arcs, spines, and thin rings. Common taxa are diamond-shaped within a spike at each of the four corners.

Distinctive Features - Unique form. Can generally be distinguished from radiolaria by the relatively thin tubular skeletal bars and wide intervening pores.

There are a number of uncertainties associated with the identification of sediment components in smear slides and the estimation of the relative abundances of these components. Precise identification of individual opaque minerals is difficult without additional techniques; consequently the opaque minerals are grouped together under the category "detrital grains". Estimates of the abundance of manganese micronodules, pyrite, and other near-opaque grains of low abundance (generally <5%) are of uncertain accuracy. Grains of inorganic clay-sized material are generally impossible to resolve and to identify mineralogically by routine examination, and therefore the estimation of the percentage of clay is only approximate.

Pteropod and foraminiferal debris of small size (5μ - 30μ) may be included as "calcareous, others", since diagnostic morphologic features may not be present in such small fragments. Rhombohedral calcite crystals, which may be either primary or detrital in origin, are occasionally present. Their presence is either included in the category "detrital grains" or a separate column labelled "calcite" may be added.

Occasionally smear slides contain a dense matrix of clay-sized dark material that appears as a cloud behind the other sediment components. This mass is often associated with pyrite framboids in sapropel-like sediments which are common in reducing environments such as the Black Sea and African Lakes. However, H_2O_2 has little or no effect on the material, and its exact nature is uncertain. A separate column has been added to note the presence of this material.

3. Designation of sediment type

After the smear slide analyses for a core have been completed, a sediment name is assigned to each sample according to the sediment classification scheme summarized in Table 1 and Figure 1 (see following pages). These sediment names are recorded on the smear slide description sheet, and serve as a basis for designating one or more sediment types for each lithologic unit.

Each principal lithologic unit is described on the visual description sheets, using a format similar to the following:

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°	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 (see following pages).

C. Core Biostratigraphy

Calcareous nannofossil assemblages were examined to assign a biostratigraphic age to the top and bottom of each core. Martini's (1971) "Standard Tertiary and Quaternary calcareous nannoplankton zonation" served as the reference manual for age determinations. An epoch name (e.g. Pleistocene, Pliocene, etc) was designated for each sample examined; no attempt was made to determine the specific nannofossil zones. Of the 1252 cores in the collection (including pilot cores), 86% contain sufficient nannofossils to allow an age determination. Only 38 of the cores (see Table 2) contain sediment identified to be of Tertiary age. The large majority of the cores, approximately 95%, contain only Pleistocene or Recent forms. No nannofossils, and consequently no age determinations, are present for the African Lakes and Red Sea hot brine cores.

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 nannofossils which have non-overlapping stratigraphic ranges. In cores where nannofossils 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 nannofossil-bearing sample which was examined. In this case, the notation used is an asterisk (e.g., Pliocene*).

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 $\geqslant$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%

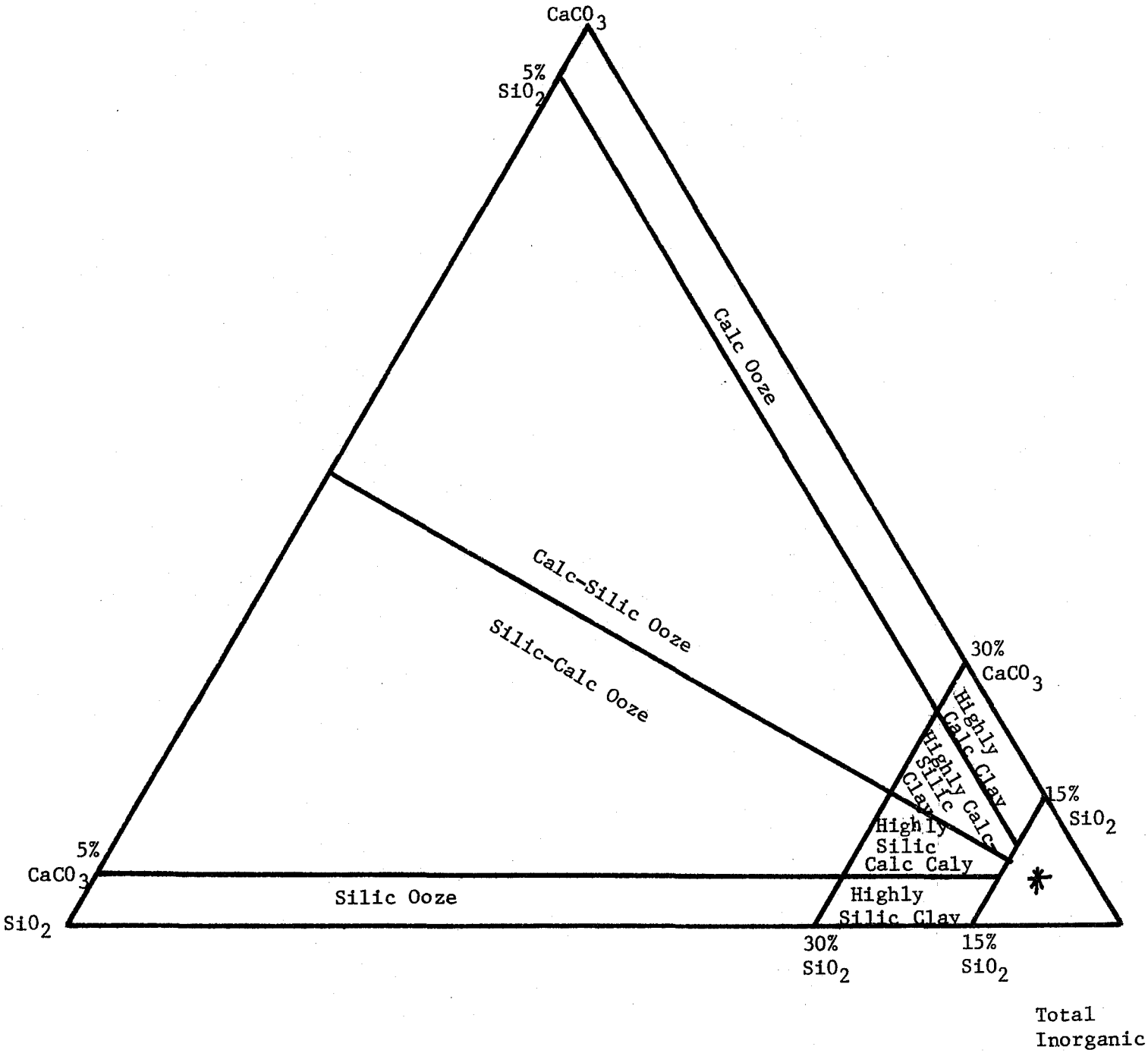
Highly {calcareous / siliceous} clay:		$15\% \leqslant \{CaCO_3 / SiO_2\} < 30\%$
{Calcareous / Siliceous} clay		$5\% \leqslant \{CaCO_3 / SiO_2\} < 15\%$
Slightly {calcareous / siliceous} clay:		$1\% \leqslant \{CaCO_3 / SiO_2\} < 5\%$

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.}: { } $\geqslant$30%

FIGURE 1a: Sediment Classification System



* (see Figure 1b)

FIGURE 1b: Sediment Classification System

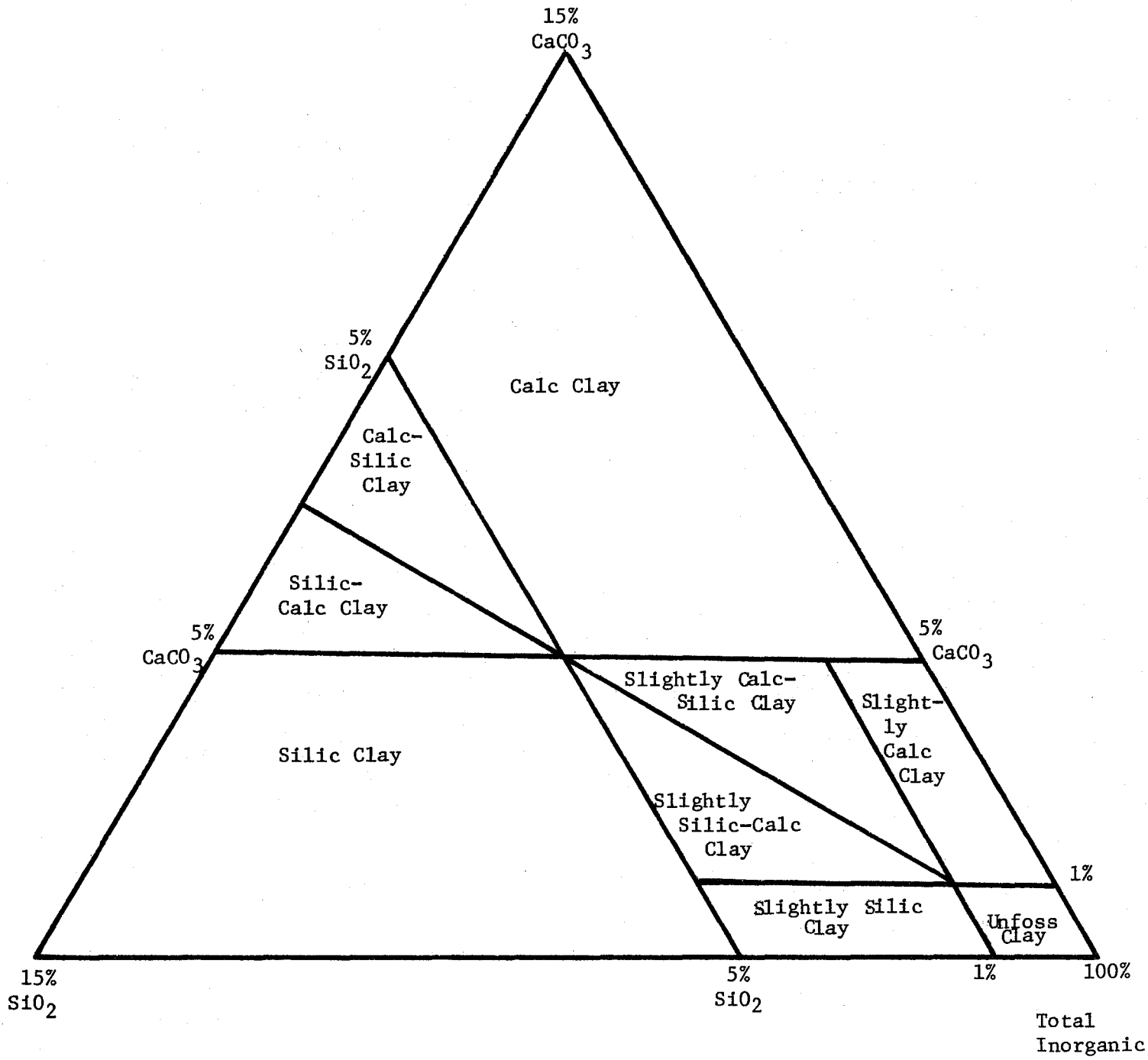


FIGURE 2: Lithologic Symbols

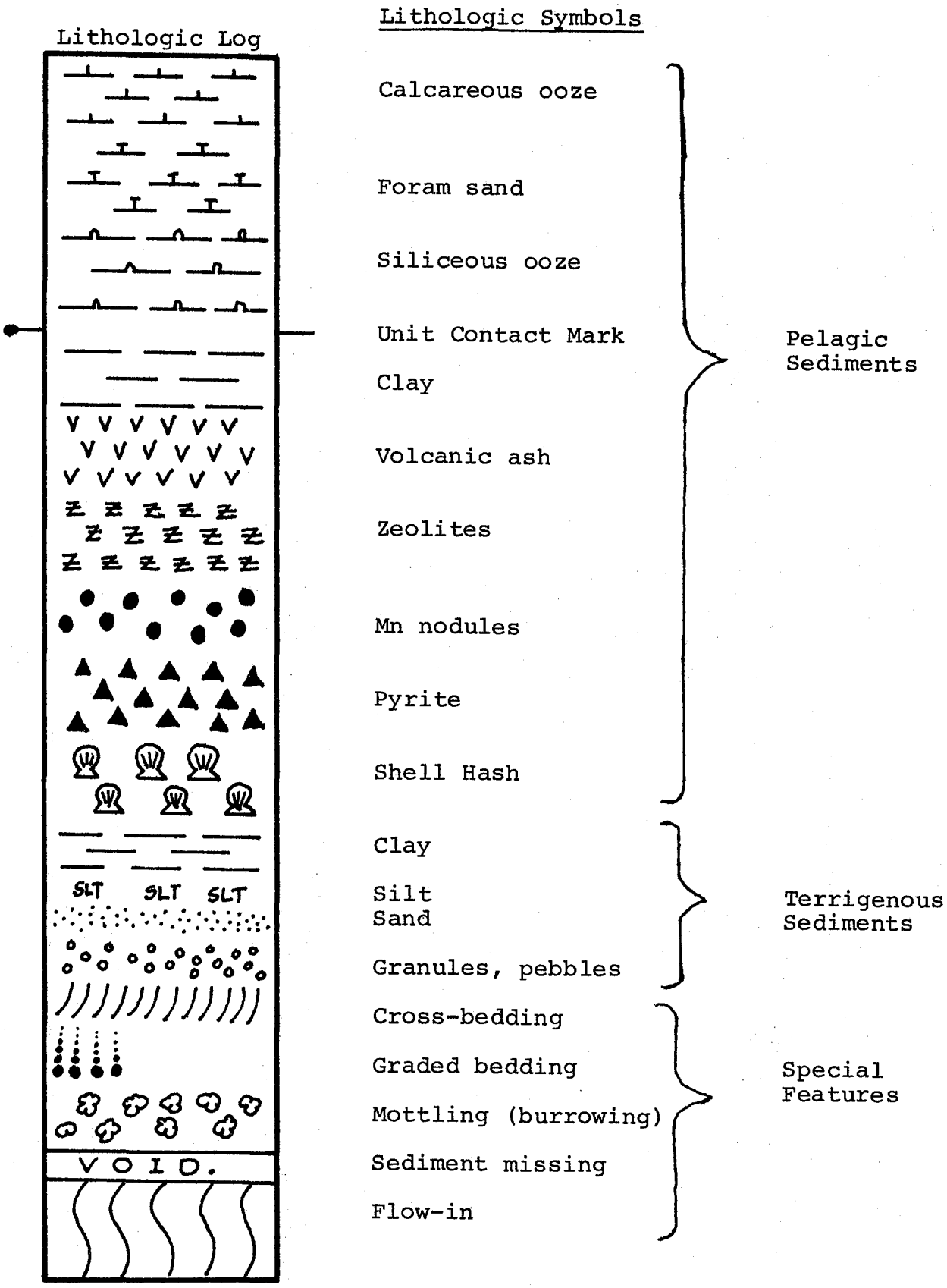


TABLE 2: Tertiary Cores in WHOI Core Collection **

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 - 49	40b-PC	Paleocene*
	41a-PC	Paleocene*
Atlantis II - 54	5-PC	Upper Pliocene
	6-PC	Middle Miocene
	7-PC	Middle Miocene
Atlantis II - 42	11-PC	Pliocene
	14-PC	Pliocene
	17-PC	Pliocene
	18-PC	Pliocene*
	19-PC	Pliocene
	20-PC	Pliocene
	21-PC	Pliocene*
Chain - 13	1-PC	Pliocene*
Chain - 57	4-PC	Upper Eocene*
	13-PC	Upper Oligocene
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
	96-PC	Upper Miocene
	98-PC	Lower Pliocene
Knorr - 31	26-GGC	Eocene

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

** Includes all cores obtained prior to November 1973.

Since many cores in the WHOI collection are Pleistocene in age, a project was recently initiated (by C. Denham and G.P. Lohmann) to date the Pleistocene cores more precisely using paleomagnetic stratigraphy and carbonate analyses. The paleomagnetic work will hopefully locate the Brunhes/Matuyama boundary (approx. 700,000 y.b.p.) in those cores which penetrated into pre-Brunhes sediment. Carbonate analyses will be performed on closely-spaced samples from cores in which no Brunhes/Matuyama transition is found. Major fluctuations in carbonate content of late Pleistocene cores from widespread geographic areas appear to be climatically controlled, and occur with a periodicity of approximately 100,000 years. These paleomagnetic and carbonate analyses may therefore provide a more precise chronology for many of the WHOI Pleistocene cores.

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. This four-digit code summarizes the descriptive information according to primary sediment type, secondary sediment type, relationship of the two, and special features (see Table 3). 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 length; 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 ("WHOI Geological Samples Data File", A. H. Driscoll and S. M. Rush, in preparation).

The MUDDIE program enables one to obtain either a complete print-out of the data stored for each sample, or an abbreviated version ("mini-listing") which lists the data in a semi-coded format (one line per sample). An example of both the full listing and the "mini-listing" is given on the next two pages. A "mini-listing" precedes the core description sheets for each cruise in the remainder of this report. In addition, a complete mini-listing sorted by Marsden squares and a world index map are found at the end of the introductory section (page 33).

Table 3

EXPLANATION OF MUDDIE FOUR-DIGIT CODE

Primary and Secondary Sediment Type (Columns 1 and 2)

1 = Unfossiliferous clay
2 = Silty/sandy clay
3 = Calc ooze
4 = Calc clay
5 = Silic ooze
6 = Silic clay
7 = Foram sand, pteropod sand
8 = Inorganic silt, sand
9 = Volcanic glass
0 = Other

Relationship (Column 3)

1 = Finely interbedded
2 = Gradational contacts
3 = Sharp contacts
4 = Irregular or disturbed contacts
5 = Entire core of uniform lithology
6 = Contained in same lithologic unit
7 = Obscured
8 = Visually indistinguishable
9 =
0 = Other

Special Features (Column 4)

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

```
**************          STATION DATA RETRIEVAL          **************                    PAGE 8
**************          DATE: 03:21 MAY 20,1975         **************                    **WHOI**

CHN 100 LEG  4: STATION/DIVE # 0043 SAMP # 0000 DATE: 71/ 4/15 MARSDEN #:  31.32  3.137N  52.233E FIX: DEAD RECKONING
 * CORE #    0031 DEPTH = 5115 M    CORE LENGTH      254 CM
 * DEVICE: PISTON CORE                                  ** PROVINCE: ABYSSAL PLAIN
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: SILIC OOZE                    ** SECONDARY SEDIMENT TYPE: CALC OOZE
 * SED RELATIONSHIP: CONTAINED IN SAME LITHOLOGIC UNIT  ** SPECIAL FEATURES: NONE

CHN 100 LEG  4: STATION/DIVE # 0043 SAMP # 0000 DATE: 71/ 4/15 MARSDEN #:  31.32  3.137N  52.233E FIX: DEAD RECKONING
 * CORE #    0031 DEPTH = 5115 M    CORE LENGTH        0 CM    PILOT LENGTH     0104
 * DEVICE: PILOT GRAVITY CORE                           ** PROVINCE: ABYSSAL PLAIN
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: CALC OOZE                     ** SECONDARY SEDIMENT TYPE: SILIC OOZE
 * SED RELATIONSHIP: CONTAINED IN SAME LITHOLOGIC UNIT  ** SPECIAL FEATURES: NONE

CHN 100 LEG  4: STATION/DIVE # 0044 SAMP # 0000 DATE: 71/ 4/16 MARSDEN #:  31.32  3.142N  52.410E FIX: DEAD RECKONING
 * CORE #    0032 DEPTH = 5123 M    CORE LENGTH      959 CM
 * DEVICE: PISTON CORE                                  ** PROVINCE: TRENCH - CONTINENTAL MARGIN
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: OTHER                         ** SECONDARY SEDIMENT TYPE: CALC OOZE
 * SED RELATIONSHIP: SHARP CONTACTS                     ** SPECIAL FEATURES: GRADED BEDDING OR CROSS BEDDING

CHN 100 LEG  4: STATION/DIVE # 0044 SAMP # 0000 DATE: 71/ 4/16 MARSDEN #:  31.32  3.142N  52.410E FIX: DEAD RECKONING
 * CORE #    0032 DEPTH = 5123 M    CORE LENGTH        0 CM    PILOT LENGTH     0137
 * DEVICE: PILOT GRAVITY CORE                           ** PROVINCE: TRENCH - CONTINENTAL MARGIN
 * VITA CODE: UNSPECIFIED                               ** REMARKS:
 * PRIMARY SEDIMENT TYPE: OTHER                         ** SECONDARY SEDIMENT TYPE: CALC OOZE
 * SED RELATIONSHIP: GRADATIONAL CONTACTS               ** SPECIAL FEATURES: NONE

CHN 100 LEG  4: STATION/DIVE # 0045 SAMP # 0000 DATE: 71/ 4/16 MARSDEN #:  31.32  3.080N  52.383E FIX: DEAD RECKONING
 * CORE #    0033 DEPTH = 5126 M    CORE LENGTH     1014 CM
 * DEVICE: PISTON CORE                                  ** PROVINCE: ABYSSAL PLAIN
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: CALC OOZE                     ** SECONDARY SEDIMENT TYPE: SILIC OOZE
 * SED RELATIONSHIP: SHARP CONTACTS                     ** SPECIAL FEATURES: GRADED BEDDING OR CROSS BEDDING

CHN 100 LEG  4: STATION/DIVE # 0045 SAMP # 0000 DATE: 71/ 4/16 MARSDEN #:  31.32  3.080N  52.383E FIX: DEAD RECKONING
 * CORE #    0033 DEPTH = 5126 M    CORE LENGTH        0 CM    PILOT LENGTH     0152
 * DEVICE: PILOT GRAVITY CORE                           ** PROVINCE: ABYSSAL PLAIN
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: SILIC OOZE                    ** SECONDARY SEDIMENT TYPE: CALC OOZE
 * SED RELATIONSHIP: CONTAINED IN SAME LITHOLOGIC UNIT  ** SPECIAL FEATURES: NONE

CHN 100 LEG  4: STATION/DIVE # 0046 SAMP # 0000 DATE: 71/ 4/17 MARSDEN #:  31.20  2.201N  50.130E FIX: DEAD RECKONING
 * CORE #    0034 DEPTH = 5004 M    CORE LENGTH      895 CM
 * DEVICE: PISTON CORE                                  ** PROVINCE: UNSPECIFIED
 * VITA CODE: WITH CAMERA, HEAT FLOW, COMPASS           ** REMARKS:
 * PRIMARY SEDIMENT TYPE: CALC OOZE                     ** SECONDARY SEDIMENT TYPE: SILIC OOZE
 * SED RELATIONSHIP: CONTAINED IN SAME LITHOLOGIC UNIT  ** SPECIAL FEATURES: PARTIALLY LITHIFIED SEDIMENT
```

********** STATION DATA RETRIEVAL ********** PAGE 2
********** DATE: 14:56 MAY 19,'75 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
CHN	100	4	0040	0000	15	71 4 8	6.554N	54.417E	1	31.64	0029	5106.	1156.	1000	10	0731	54	
CHN	100	4	0040	0000	26	71 4 8	6.554N	54.417E	1	31.64	0029	5106.	0.	0152	10	3359	54	
CHN	100	4	0042	0000	15	71 413	4.274N	51.080E	1	31.41	0030	5049.	1108.	0000	10	0338	54	
CHN	100	4	0042	0000	26	71 413	4.274N	51.080E	1	31.41	0030	5049.	0.	0098	10	3539	54	
CHN	100	4	0043	0000	15	71 415	3.137N	52.233E	1	31.32	0031	5115.	254.	0000	10	5369	54	
CHN	100	4	0043	0000	26	71 415	3.137N	52.233E	1	31.32	0031	5115.	0.	0104	10	3569	54	
CHN	100	4	0044	0000	15	71 416	3.142N	52.410E	1	31.32	0032	5123.	959.	0000	18	0331	54	
CHN	100	4	0044	0000	26	71 416	3.142N	52.410E	1	31.32	0032	5123.	0.	0137	18	0329	0	
CHN	100	4	0045	0000	15	71 416	3.080N	52.383E	1	31.32	0033	5126.	1014.	0000	10	3531	54	
CHN	100	4	0045	0000	26	71 416	3.080N	52.383E	1	31.32	0033	5126.	0.	0152	10	5369	54	
CHN	100	4	0046	0000	15	71 417	2.201N	50.130E	1	31.20	0034	5004.	895.	0000	0	3567	54	
CHN	100	4	0046	0000	26	71 417	2.201N	50.130E	1	31.20	0034	5004.	0.	0106	10	3469	0	
CHN	100	4	0047	0000	15	71 418	.558N	53.183E	1	31.03	0035	5101.	1064.	0000	0	3561	54	
CHN	100	4	0047	0000	26	71 418	.558N	53.183E	1	31.03	0035	5101.	0.	0111	0	5739	54	
CHN	100	4	0048	0000	15	71 420	.145S	56.035E	1	330.06	0036	4576.	866.	0000	0	0731	54	
CHN	100	4	0048	0000	26	71 420	.145S	56.035E	1	330.06	0036	4576.	0.	0083	0	3029	54	
CHN	100	5	0049	0000	15	71 427	1.054N	53.300E	1	31.13	0037	5104.	629.	0000	0	3561	54	
CHN	100	5	0049	0000	26	71 427	1.054N	53.300E	1	31.13	0037	5104.	0.	0107	0	0732	54	
CHN	100	5	0050	0000	15	71 428	1.567N	53.591E	1	31.13	0038	5126.	753.	0000	0	5369	54	
CHN	100	5	0050	0000	26	71 428	1.567N	53.591E	1	31.13	0038	5126.	0.	0144	0	5369	54	
CHN	100	5	0051	0000	15	71 429	1.490N	56.517E	1	31.16	0039	4782.	727.	0000	0	1339	54	
CHN	100	5	0051	0000	26	71 429	1.490N	56.517E	1	31.16	0039	4782.	0.	0052	0	1323	54	
CHN	100	5	0052	0000	15	71 430	1.370N	59.407E	9	31.19	0040	5426.	596.	0000	99	5039	54	
CHN	100	5	0052	0000	26	71 430	1.370N	59.407E	9	31.19	0040	5426.	0.	0148	99	5032	54	
CHN	100	5	0053	0000	15	71 5 2	1.335N	65.401E	1	30.15	0041	3433.	511.	0000	99	3731	54	
CHN	100	5	0053	0000	26	71 5 2	1.335N	65.401E	1	30.15	0041	3433.	0.	0097	99	3322	54	
CHN	100	5	0054	0000	15	71 5 3	1.214N	68.456E	1	30.18	0042	4078.	785.	0000	15	3029	54	
CHN	100	5	0054	0000	26	71 5 3	1.214N	68.456E	1	30.18	0042	4078.	0.	0114	15	3352	54	
CHN	100	5	0055	0000	15	71 5 4	1.272N	70.470E	1	30.10	0043	4230.	847.	0000	15	3731	54	
CHN	100	5	0055	0000	26	71 5 4	1.272N	70.470E	1	30.10	0043	4230.	0.	0090	0	3329	54	
CHN	100	5	0057	0000	15	71 5 6	1.193N	76.547E	1	29.16	0044	4367.	943.	0000	0	3021	54	
CHN	100	5	0057	0000	26	71 5 6	1.193N	76.547E	1	29.16	0044	4367.	0.	0117	0	3969	54	
CHN	100	5	0058	0000	15	71 5 7	1.208N	75.385E	1	29.15	0045	3524.	564.	0000	0	3329	54	
CHN	100	5	0058	0000	26	71 5 7	1.208N	75.385E	1	29.15	0045	3524.	0.	0108	0	3329	54	
CHN	100	5	0059	0000	15	71 5 9	1.262N	79.090E	1	29.19	0046	4475.	675.	0000	0	3567	54	
CHN	100	5	0059	0000	26	71 5 9	1.262N	79.090E	1	29.19	0046	4475.	0.	0119	0	3567	54	
CHN	100	8	0070	0000	15	71 727	10.134S	157.095E	0	356.07	0048	5140.	597.	0000	10	3148	0	
CHN	100	8	0071	0000	15	71 728	14.170S	163.543E	1	355.43	0049	3800.	1018.	0000	0	3420	54	
CHN	100	8	0071	0000	26	71 728	14.170S	163.543E	1	355.43	0049	3800.	0.	0133	0	4339	54	
CHN	100	8	0072	0000	15	71 728	14.049S	164.300E	1	355.44	0050	3903.	944.	0000	0	3518	54	
CHN	100	8	0072	0000	26	71 728	14.049S	164.300E	1	355.44	0050	3903.	0.	0150	0	3511	54	
CHN	100	8	0074	0000	15	71 730	18.287S	166.048E	1	355.86	0051	4437.	1143.	0000	0	0967	54	
CHN	100	8	0074	0000	26	71 730	18.287S	166.048E	1	355.86	0051	4437.	0.	0125	0	0964	54	
CHN	100	8	0075	0000	15	71 731	18.285S	166.048E	1	355.86	0052	4348.	1074.	0000	0	1629	54	
CHN	100	8	0075	0000	26	71 731	18.285S	166.048E	1	355.86	0052	4348.	0.	0152	0	0969	54	

E. Procedures for Obtaining 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 quantitites, 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 labelling system in published papers or data summaries. This labelling 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 DES73-06463 A02, 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.

Standardized sampling request sheets are used to maintain consistency and to aid in identifying previous investigators and the type of study done. A sample request form is included in the Appendix of this report. This form may be copied, completed, and returned to the WHOI Core Laboratory when requesting samples. Approval of the appropriate chief scientist(s), when required, will be obtained by the core lab staff. All other information on the sample request form should be completed.

Persons sampling cores should exercise caution in avoiding contamination from sediment directly adjacent to the liner, which may have been displaced by frictional effects during the coring process or during subsequent core handling.

Computer capabilities, as outlined in the previous section, are available for outside use. Requests for listings will be processed as quickly as the appropriate retrieval program is written and computer time is obtained.

Cores are routinely photographed, and a complete set of negatives and 8" x 10" glossy prints is on file. Persons who wish to receive prints as a prelude to sampling or as a separate part of their research should send a written request for the photographs to the Core Curator, DESC Building, Woods Hole Oceanographic Institution. There is no charge for providing core photographs, as long as the number of prints required is not excessive.

A facility for x-radiography of the cores has recently been installed at the Core Laboratory and should be fully operational by late 1975. Special studies using x-radiography may be undertaken after that date. This facility will be available to investigators from WHOI and from outside institutions.

Requests for extensive sediment sampling, computer data retrieval, photographs, or X-rays may be subject to a charge for labor, materials, or computer time.

All correspondence regarding core lab operations should be addressed to the Core Curator, DESC Building, Woods Hole Oceanographic Institution.

ACKNOWLEDGMENTS

This project could not have been initiated without the support and encouragement of J.R. Heirtzler and R.W. Morse, and an initial grant from the Woods Hole Ocean Industry Program. Continuing support of the W.H.O.I. core lab operations has been provided (since January 1973) by the Office of Naval Research under Contract N00014-74-C0262, NR 083-004; and by the National Science Foundation under Grant No. DES73-06463 (formerly GA-36698).

We have benefited from useful discussions with numerous colleagues concerning procedures for completing the descriptive work and presenting the results. Particular appreciation is expressed to C.D. Hollister, D.A. Ross, W.B. Bryan, P.A. Jezek, C.O. Bowin, K.O. Emery, A.H. Bouma, and W.R. Riedel for their suggestions. We thank J.V. Gardner, W.D. Gardner, R.L. Houghton, and A.N. Shor for critically reviewing the introductory section. Thanks are also due to Bob Groman for writing program MUDDIE and to Bill Dunkle for assistance in locating cruise records and station data.

Full credit for the successful completion of this project is due to the careful and comprehensive work of the W.H.O.I. core lab staff over the past three years. Particular recognition is due to Greg Mountain, Jim Broda, Frank Shephard, Bob McGirr and Sue Rush for their efforts in seeing this project through to completion.

Core Lab Personnel	Period of Time	Responsibility				
		Core Splitting and Archiving	Core Photography	Core Description	Typing Data Forms	Biostratigraphy
James E. Broda	6/73 - present	✓		✓		
Nancy Garvin	6/72 - 9/72				✓	
Jeffrey A. Gilman	6/72 - 11/72		✓			
Robert L. Houghton	6/73 - 8/73			✓		
Thomas A. Johnson	10/72 - 8/73	✓				
Christopher Kenah	12/72 - 5/73	✓		✓		
Robert McGirr	11/73 - present	✓		✓		
Jean Ellen McSharry	7/73 - 8/73				✓	
Gregory S. Mountain	6/72 - 8/74	✓		✓		
H. Chandler Rowell	5/74 - 8/74					✓
Susan Rush	9/73 - present				✓	
Jeffrey Shaw	7/72 - 9/72 7/73 - 9/73			✓		
Frank C. Shephard	1/73 - present	✓	✓			
Alexander N. Shor	6/72 - 9/72	✓		✓		
David Twichell	9/73 - 11/73			✓		

APPENDIX I

W. H. O. I. SAMPLING SHEET

Date _____

Name _____ Position _____

Institution _____ Address _____

Purpose of sampling _____

_____

Cruise _____ Leg _____ Station _____ Core or dredge# _____

Chief Scientist _____

Type of sample taken _____

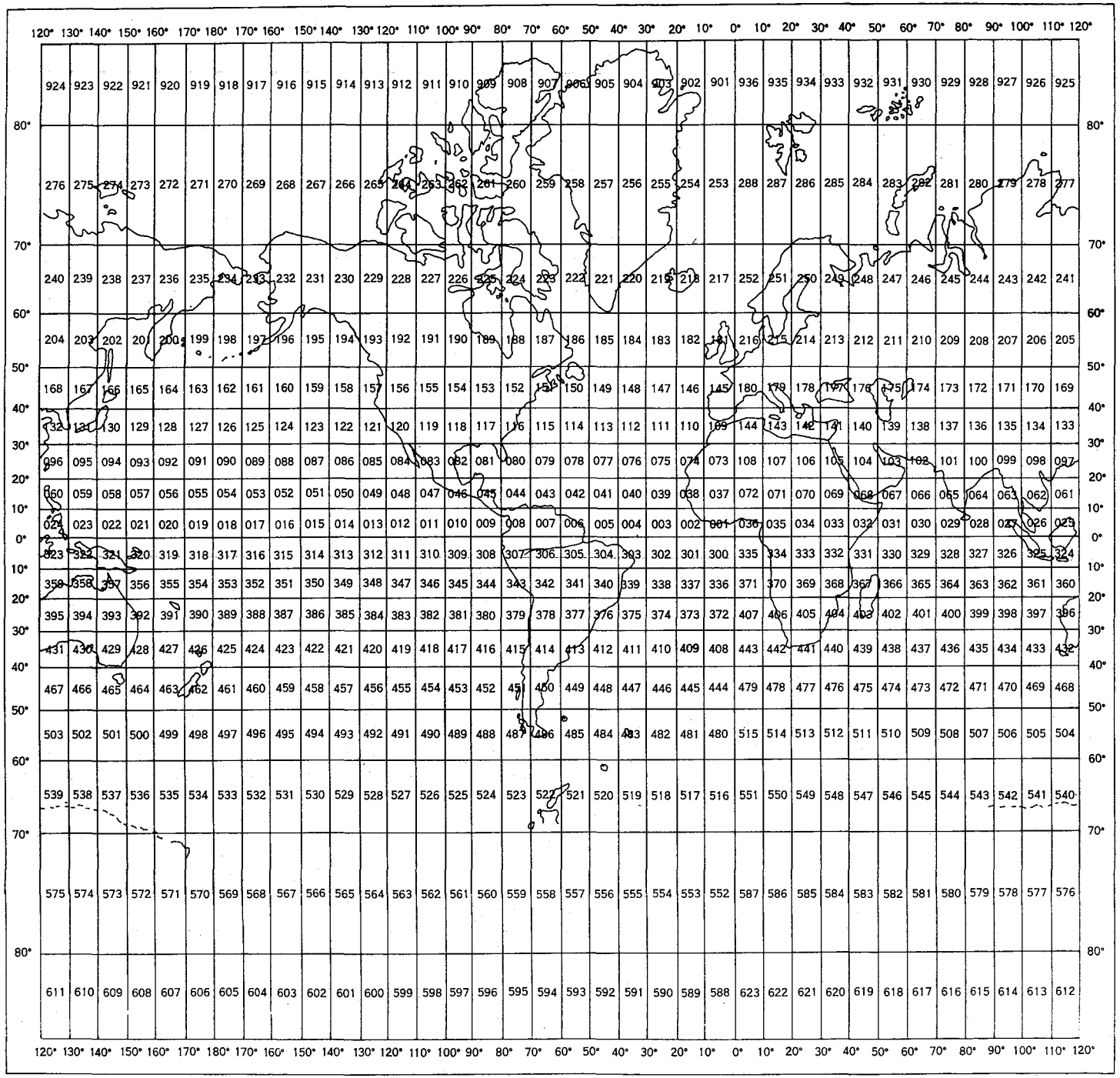
Note: chief scientist of cruise must approve sampling.

Sample depth in core	Sample size	Comments (include proposed analysis)

If first time sampling, please include position, institution, address, and purpose.

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°
924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 902 901 936 935 934 933 932 931 930 929 928 927 926 925
276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 257 256 255 254 253 288 287 286 285 284 283 282 281 280 279 278 277
240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 252 251 250 249 248 247 246 245 244 243 242 241
204 203 202 201 200 199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 216 215 214 213 212 211 210 209 208 207 206 205
168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 180 179 178 177 176 175 174 173 172 171 170 169
132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 144 143 142 141 140 139 138 137 136 135 134 133
096 095 094 093 092 091 090 089 088 087 086 085 084 083 082 081 080 079 078 077 076 075 074 073 108 107 106 105 104 103 102 101 100 099 098 097
060 059 058 057 056 055 054 053 052 051 050 049 048 047 046 045 044 043 042 041 040 039 038 037 072 071 070 069 068 067 066 065 064 063 062 061
024 023 022 021 020 019 018 017 016 015 014 013 012 011 010 009 008 007 006 005 004 003 002 001 036 035 034 033 032 031 030 029 028 027 026 025
323 322 321 320 319 318 317 316 315 314 313 312 311 310 309 308 307 306 305 304 303 302 301 300 335 334 333 332 331 330 329 328 327 326 325 324
359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344 343 342 341 340 339 338 337 336 371 370 369 368 367 366 365 364 363 362 361 360
395 394 393 392 391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376 375 374 373 372 407 406 405 404 403 402 401 400 399 398 397 396
431 430 429 428 427 426 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 443 442 441 440 439 438 437 436 435 434 433 432
467 466 465 464 463 462 461 460 459 458 457 456 455 454 453 452 451 450 449 448 447 446 445 444 479 478 477 476 475 474 473 472 471 470 469 468
503 502 501 500 499 498 497 496 495 494 493 492 491 490 489 488 487 486 485 484 483 482 481 480 515 514 513 512 511 510 509 508 507 506 505 504
539 538 537 536 535 534 533 532 531 530 529 528 527 526 525 524 523 522 521 520 519 518 517 516 551 550 549 548 547 546 545 544 543 542 541 540
575 574 573 572 571 570 569 568 567 566 565 564 563 562 561 560 559 558 557 556 555 554 553 552 587 586 585 584 583 582 581 580 579 578 577 576
611 610 609 608 607 606 605 604 603 602 601 600 599 598 597 596 595 594 593 592 591 590 589 588 623 622 621 620 619 618 617 616 615 614 613 612

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,1975 ********** **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	PILOT LENGTH, 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	5.030N	19.318W	4	2.59	0009	4522.	896.	0000	10	3738	54	
CHN	99	3	0010	0000	26	70 516	5.030N	19.318W	4	2.59	0009	4522.	0.	0154	10	4662	54	
								MARSDEN SQUARE # 3										
CHN	99	3	0011	0000	15	70 517	2.044N	20.380W	4	3.20	0010	4596.	1135.	0000	10	3322	54	
CHN	99	3	0011	0000	26	70 517	2.044N	20.380W	4	3.20	0010	4596.	0.	0081	10	3082	54	
								MARSDEN SQUARE # 4										
AII	60	2	0006	0000	26	71 218	.520N	38.210W	1	4.58	0006	4488.	0.	0049	11	3932	0	
AII	60	2	0006	0000	15	71 218	.520N	38.210W	1	4.58	0006	4488.	290.	0000	11	3932	0	
								MARSDEN SQUARE # 5										
AII	31	1	0006	0000	15	67 415	9.385N	43.370W	4	5.93	0006	4757.	565.	0000	16	3349	0	
AII	31	1	0009	0000	15	67 417	9.350N	42.470W	1	5.92	0009	4355.	577.	0000	16	3342	0	
AII	31	1	0009	0000	26	67 417	9.350N	42.470W	1	5.92	0009	4355.	0.	0121	16	3342	0	
AII	31	1	0010	0000	15	67 417	9.463N	41.500W	1	5.91	0010	3711.	314.	0000	16	0049	0	
AII	31	1	0011	0000	15	67 418	9.580N	40.513W	1	5.90	0011	3469.	182.	0000	16	3869	0	
AII	31	1	0011	0000	26	67 418	9.580N	40.513W	1	5.90	0011	3469.	0.	0045	16	3322	0	
AII	60	2	0005	0000	15	71 216	5.020N	44.100W	1	5.54	0005	3706.	219.	0000	11	3322	0	
AII	60	2	0005	0000	26	71 216	5.020N	44.100W	1	5.54	0005	3706.	0.	0098	11	3322	0	
								MARSDEN SQUARE # 9										
AII	54	2	0001	0000	15	6911 2	4.531N	83.259W	9	9.43	0001	3395.	868.	0000	12	3567	0	
AII	54	2	0001	0000	26	6911 2	4.531N	83.259W	9	9.43	0001	3395.	0.	0164	12	3569	0	
								MARSDEN SQUARE # 10										
CHN	21	1	0003	0000	15	611011	39.578N	12.185W	5	10.92	0003	3534.	0.	0000	0	0000	0	IN JAR

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 29										
AII	15	5	0614	0000	13	65 4 6	9.570N	74.110E	9	29.94	0614	2480.	76.	0000	6	3469	0	
AII	15	5	0614	0000	15	65 4 6	9.540N	74.110E	9	29.94	0021	2474.	500.	0000	6	3439	0	
AII	15	5	0614	0000	26	65 4 6	9.540N	74.110E	9	29.94	0021	2474.	0.	0030	6	0355	0	
AII	15	5	0615	0000	13	65 4 6	9.520N	75.190E	9	29.95	0615	1893.	73.	0000	6	4452	0	
AII	15	5	0617	0000	13	65 4 7	7.570N	74.080E	9	29.74	0617	2758.	73.	0000	6	4349	0	
AII	15	5	0618	0000	13	65 4 7	7.015N	73.240E	9	29.73	0618	1800.	34.	0000	6	3059	0	
AII	15	6	0629	0000	13	65 415	4.590N	71.140E	0	29.47	0629	4014.	76.	0000	0	4032	0	
CHN	100	5	0057	0000	15	71 5 6	1.193N	76.547E	1	29.16	0044	4367.	943.	0000	0	3021	54	
CHN	100	5	0057	0000	26	71 5 6	1.193N	76.547E	1	29.16	0044	4367.	0.	0117	0	3969	54	
CHN	100	5	0058	0000	15	71 5 7	1.208N	75.385E	1	29.15	0045	3524.	564.	0000	0	3329	54	
CHN	100	5	0058	0000	26	71 5 7	1.208N	75.385E	1	29.15	0045	3524.	0.	0108	0	3329	54	
CHN	100	5	0059	0000	15	71 5 9	1.262N	79.090E	1	29.19	0046	4475.	675.	0000	0	3567	54	
CHN	100	5	0059	0000	26	71 5 9	1.262N	79.090E	1	29.19	0046	4475.	0.	0119	0	3567	54	
								MARSDEN SQUARE # 30										
AII	15	4	0572	0000	18	65 311	9.130N	60.130E	9	30.90	0572	3705.	100.	0000	15	3322	0	
CHN	100	5	0053	0000	15	71 5 2	1.335N	65.401E	1	30.15	0041	3433.	511.	0000	99	3731	54	
CHN	100	5	0053	0000	26	71 5 2	1.335N	65.401E	1	30.15	0041	3433.	0.	0097	99	3322	54	
CHN	100	5	0054	0000	15	71 5 3	1.214N	68.456E	1	30.18	0042	4078.	785.	0000	15	3029	54	
CHN	100	5	0054	0000	26	71 5 3	1.214N	68.456E	1	30.18	0042	4078.	0.	0114	15	3352	54	
CHN	100	5	0055	0000	15	71 5 4	1.272N	70.470E	1	30.10	0043	4230.	847.	0000	15	3731	54	
CHN	100	5	0055	0000	26	71 5 4	1.272N	70.470E	1	30.10	0043	4230.	0.	0090	0	3329	54	
								MARSDEN SQUARE # 31										
AII	15	4	0558	0000	15	65 3 1	8.590N	51.440E	9	31.81	0009	3985.	870.	0000	10	0019	0	
AII	15	4	0558	0000	26	65 3 1	8.590N	51.440E	9	31.81	0009	3985.	0.	0039	10	0029	0	
AII	15	4	0559	0000	18	65 3 2	8.540N	51.370E	9	31.81	0559	3797.	104.	0000	15	3959	0	
AII	15	4	0560	0000	15	65 3 3	8.585N	52.020E	9	31.82	0010	4350.	665.	0000	15	3342	0	
AII	15	4	0560	0000	26	65 3 3	8.585N	52.020E	9	31.82	0010	4350.	0.	0023	15	3959	0	
AII	15	4	0561	0000	15	65 3 4	8.580N	52.200E	9	31.82	0011	4722.	998.	0000	15	0649	0	
AII	15	4	0563	0000	15	65 3 6	9.110N	52.235E	9	31.92	0012	4499.	849.	0000	15	0342	0	
AII	15	4	0563	0000	26	65 3 6	9.110N	52.235E	9	31.92	0012	4499.	0.	0039	15	0059	0	
AII	15	4	0564	0000	15	65 3 7	9.050N	53.060E	9	31.93	0013	4824.	0.	0000	15	0000	0	NOSE CONE
AII	15	4	0565	0000	15	65 3 7	9.020N	53.405E	9	31.93	0014	4852.	1050.	0000	15	0049	0	
AII	15	4	0565	0000	26	65 3 7	9.020N	53.405E	9	31.93	0014	4852.	0.	0069	15	3029	0	
AII	15	4	0568	0000	15	65 3 9	8.590N	54.470E	9	31.84	0015	4950.	1179.	0000	10	4661	0	
AII	15	4	0568	0000	26	65 3 9	8.590N	54.470E	9	31.84	0015	4950.	0.	0055	10	0059	0	
AII	15	4	0569	0000	18	65 3 9	8.585N	56.020E	9	31.86	0569	4001.	105.	0000	10	0369	0	
CHN	43	1	0009	0000	13	64 4 7	.550N	51.380E	5	31.01	0004	5114.	145.	0000	10	3569	0	

STATION DATA RETRIEVAL
DATE: 12:36 MAY 16,'75

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 31										
CHN	43	1	0010	0000	13	64 4 8	•220S	54•330E	5	31•04	0005	4864•	264•	0000	10	3029	0	
CHN	43	1	0069	0000	15	64 530	2•490N	59•410E	5	31•29	0023	4215•	325•	0000	15	4969	46	
CHN	100	4	0036	0000	15	71 4 6	7•480N	56•122E	1	31•76	0026	4680•	1142•	0000	99	3562	54	CHN RIDGE
CHN	100	4	0036	0000	26	71 4 6	7•480N	56•122E	1	31•76	0026	4680•	0•	0112	99	3569	54	CHN RIDGE
CHN	100	4	0037	0000	15	71 4 7	7•439N	54•455E	1	31•74	0027	5102•	1149•	0000	10	3021	54	
CHN	100	4	0037	0000	26	71 4 7	7•519N	54•455E	1	31•74	0027	5102•	0•	0145	10	3569	54	
CHN	100	4	0038	0000	15	71 4 7	7•045N	55•576E	1	31•75	0028	4250•	431•	0000	10	3328	54	
CHN	100	4	0038	0000	26	71 4 7	7•545N	55•576E	1	31•75	0028	4250•	0•	0100	10	3322	54	
CHN	100	4	0040	0000	15	71 4 8	6•554N	54•417E	1	31•64	0029	5106•	1156•	1000	10	0731	54	
CHN	100	4	0040	0000	26	71 4 8	6•554N	54•417E	1	31•64	0029	5106•	0•	0152	10	3359	54	
CHN	100	4	0042	0000	15	71 413	4•274N	51•080E	1	31•41	0030	5049•	1108•	0000	10	0338	54	
CHN	100	4	0042	0000	26	71 413	4•274N	51•080E	1	31•41	0030	5049•	0•	0098	10	3539	54	
CHN	100	4	0043	0000	15	71 415	3•137N	52•233E	1	31•32	0031	5115•	254•	0000	10	5369	54	
CHN	100	4	0043	0000	26	71 415	3•137N	52•233E	1	31•32	0031	5115•	0•	0104	10	3569	54	
CHN	100	4	0044	0000	15	71 416	3•142N	52•410E	1	31•32	0032	5123•	959•	0000	18	0331	54	
CHN	100	4	0044	0000	26	71 416	3•142N	52•410E	1	31•32	0032	5123•	0•	0137	18	0329	0	
CHN	100	4	0045	0000	15	71 416	3•080N	52•383E	1	31•32	0033	5126•	1014•	0000	10	3531	54	
CHN	100	4	0045	0000	26	71 416	3•080N	52•383E	1	31•32	0033	5126•	0•	0152	10	5369	54	
CHN	100	4	0046	0000	15	71 417	2•201N	50•130E	1	31•20	0034	5004•	895•	0000	0	3567	54	
CHN	100	4	0046	0000	26	71 417	2•201N	50•130E	1	31•20	0034	5004•	0•	0106	10	3469	0	
CHN	100	4	0047	0000	15	71 418	•558N	53•183E	1	31•03	0035	5101•	1064•	0000	0	3561	54	
CHN	100	4	0047	0000	26	71 418	•558N	53•183E	1	31•03	0035	5101•	0•	0111	0	5739	54	
CHN	100	5	0049	0000	15	71 427	1•054N	53•300E	1	31•13	0037	5104•	629•	0000	0	3561	54	
CHN	100	5	0049	0000	26	71 427	1•054N	53•300E	1	31•13	0037	5104•	0•	0107	0	0732	54	
CHN	100	5	0050	0000	15	71 428	1•567N	53•591E	1	31•13	0038	5126•	753•	0000	0	5369	54	
CHN	100	5	0050	0000	26	71 428	1•567N	53•591E	1	31•13	0038	5126•	0•	0144	0	5369	54	
CHN	100	5	0051	0000	15	71 429	1•490N	56•517E	1	31•16	0039	4782•	727•	0000	0	1339	54	
CHN	100	5	0051	0000	26	71 429	1•490N	56•517E	1	31•16	0039	4782•	0•	0052	0	1323	54	
CHN	100	5	0052	0000	15	71 430	1•370N	59•407E	9	31•19	0040	5426•	596•	0000	99	5039	54	
CHN	100	5	0052	0000	26	71 430	1•370N	59•407E	9	31•19	0040	5426•	0•	0148	99	5032	54	
								MARSDEN SQUARE # 33										
ZZZ	72	3	0002	0000	15	72 3 0	1•292N	30•429E	1	33•10	0002	40•	532•	0000	22	5545	0	LAKE ALBERT
ZZZ	72	3	0003	0000	15	72 3 0	1•312N	30•345E	1	33•10	0003	55•	484•	0000	22	5645	0	LAKE ALBERT
ZZZ	72	3	0004	0000	15	72 3 0	1•418N	30•450E	1	33•10	0004	50•	499•	0000	22	5038	0	LAKE ALBERT
ZZZ	72	3	0005	0000	15	72 3 0	1•458N	30•450E	1	33•10	0005	55•	499•	0000	22	5048	0	LAKE ALBERT
								MARSDEN SQUARE # 38										
CHN	99	3	0009	0000	15	70 514	10•308N	18•185W	1	38•08	0008	4014•	856•	0000	6	2429	54	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 38											
CHN	99	3	0009	0000	26	70 514	10.308N	18.185W	1	38.08	0008	4014.	0.	0178	6	0329	54	
							MARSDEN SQUARE # 39											
AII	42	1	0001	0000	15	68 629	16.260N	21.430W	1	39.61	0001	3696.	258.	0000	8	3739	0	
AII	42	1	0002	0000	15	68 630	18.020N	24.270W	1	39.84	0002	3696.	600.	0000	8	3241	0	
AII	42	1	0003	0000	15	68 7 1	19.410N	26.090W	1	39.96	0003	4550.	1200.	0000	8	3329	0	
AII	42	1	0004	0000	15	68 7 2	19.435N	29.020W	1	39.99	0004	4659.	1135.	0000	8	3429	0	
							MARSDEN SQUARE # 40											
AII	42	1	0006	0000	15	68 7 3	19.515N	31.530W	1	40.91	0005	4937.	1065.	0000	10	3429	0	
AII	42	1	0007	0000	15	68 7 4	19.390N	34.245W	1	40.94	0006	5161.	870.	0000	11	3340	0	
AII	42	1	0008	0000	15	68 7 4	19.300N	36.320W	1	40.96	0007	5376.	815.	0000	11	4129	0	
AII	42	1	0009	0000	15	68 7 5	19.318N	38.495W	1	40.98	0008	5235.	879.	0000	11	1379	0	
							MARSDEN SQUARE # 41											
AII	31	1	0001	0000	15	67 4 9	10.450N	44.510W	4	41.04	0001	3836.	304.	0000	16	3849	0	
AII	31	1	0001	0000	26	67 4 9	10.450N	44.510W	4	41.04	0001	3836.	0.	0063	16	3849	0	
AII	31	1	0002	0000	15	67 412	10.350N	44.510W	4	41.04	0002	5106.	699.	0000	16	8240	0	
AII	31	1	0002	0000	26	67 412	10.350N	44.510W	4	41.04	0002	5106.	0.	0018	16	1249	0	
AII	31	1	0003	0000	15	67 413	10.545N	44.070W	4	41.04	0003	4389.	692.	0000	16	2839	0	
AII	31	1	0003	0000	26	67 413	10.545N	44.070W	4	41.04	0003	4389.	0.	0053	16	2349	0	
AII	31	1	0004	0000	15	67 415	10.490N	44.100W	4	41.04	0004	5154.	538.	0000	16	2349	0	
AII	31	1	0004	0000	26	67 415	10.490N	44.100W	4	41.04	0004	5154.	0.	0098	16	2349	0	
AII	31	1	0005	0000	15	67 414	10.220N	44.180W	4	41.04	0005	4945.	593.	0000	16	2329	0	
AII	31	1	0007	0000	15	67 416	10.290N	43.415W	4	41.03	0007	4607.	525.	0000	16	3662	0	
AII	31	1	0007	0000	26	67 416	10.290N	43.415W	4	41.03	0007	4607.	0.	0022	16	3662	0	
AII	31	1	0008	0000	15	67 416	10.485N	42.560W	4	41.02	0008	5179.	388.	0000	16	0079	0	
AII	31	1	0012	0000	15	67 418	10.200N	41.175W	1	41.01	0012	3182.	511.	0000	16	3349	0	
AII	31	1	0012	0000	26	67 418	10.200N	41.175W	1	41.01	0012	3182.	0.	0078	16	3322	0	
AII	31	1	0013	0000	15	67 419	11.203N	41.518W	1	41.11	0013	4204.	530.	0000	16	3029	0	
AII	31	1	0013	0000	26	67 419	11.203N	41.518W	1	41.11	0013	4204.	0.	0119	16	3329	0	
AII	31	1	0014	0000	15	67 420	11.320N	42.425W	1	41.12	0014	3846.	468.	0000	16	3329	0	
AII	31	1	0014	0000	26	67 420	11.320N	42.425W	1	41.12	0014	3846.	0.	0069	16	3329	0	
AII	31	1	0015	0000	15	67 420	11.531N	43.474W	1	41.13	0015	3940.	566.	0000	16	3340	0	
AII	31	1	0015	0000	26	67 420	11.531N	43.474W	1	41.13	0015	3940.	0.	0083	16	3739	0	
AII	31	1	0016	0000	15	67 421	11.575N	46.100W	1	41.16	0016	4217.	512.	0000	16	3322	0	

MARSDEN SQUARE # 41

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
AII	31	1	0016	0000	26	67 421	11.575N	46.100W	1	41.16	0016	4217.	0.	0150	16	3329	0	
AII	31	1	0017	0000	15	67 422	11.545N	48.260W	1	41.18	0017	4824.	848.	0000	16	3426	0	
AII	31	1	0017	0000	26	67 422	11.545N	48.260W	1	41.18	0017	4824.	0.	0040	16	3136	0	
AII	42	1	0011	0000	15	68 7 6	19.340N	40.300W	1	41.90	0010	5654.	705.	0000	11	2279	0	
AII	42	1	0012	0000	15	68 7 6	19.370N	41.370W	1	41.91	0011	5070.	702.	0000	11	3432	0	
AII	42	1	0013	0000	15	68 7 7	19.400N	42.440W	1	41.92	0012	4043.	745.	0000	11	3349	0	
AII	42	1	0014	0000	15	68 7 7	19.340N	43.490W	1	41.93	0013	4107.	711.	0000	11	3322	0	
AII	42	1	0015	0000	15	68 7 7	19.340N	44.570W	1	41.94	0014	3515.	95.	0000	10	3379	0	
AII	42	1	0016	0000	15	68 711	19.415N	44.330W	1	41.94	0015	4040.	737.	0000	10	3349	0	
AII	42	1	0017	0000	15	68 713	19.338N	46.078W	1	41.96	0016	2471.	560.	0000	10	3349	0	
AII	42	1	0022	0000	15	68 715	19.130N	47.270W	1	41.97	0017	4320.	748.	0000	10	3731	0	
AII	42	1	0023	0000	15	68 716	19.132N	47.260W	1	41.97	0018	4321.	807.	0000	10	3341	0	
AII	42	1	0030	0000	15	68 717	19.088N	47.270W	1	41.97	0019	3942.	672.	0000	10	3322	0	
AII	42	1	0032	0000	15	68 718	19.410N	48.390W	1	41.98	0020	4254.	544.	0000	10	3320	0	
CHN	75	2	0011	0000	15	671110	14.180N	52.375W	5	41.42	0009	5061.	580.	0000	10	3432	54	
CHN	75	2	0011	0000	26	671110	14.180N	52.375W	5	41.42	0009	5061.	0.	0154	10	3432	54	
CHN	75	2	0012	0000	15	671110	14.150N	50.510W	5	41.40	0010	4783.	815.	0000	10	1429	54	
CHN	75	2	0012	0000	26	671110	14.150N	50.510W	5	41.40	0010	4783.	0.	0138	10	1329	54	
CHN	75	2	0013	0000	15	671111	14.125N	49.090W	5	41.49	0011	4474.	192.	0000	11	3329	54	
CHN	75	2	0013	0000	26	671111	14.125N	49.090W	5	41.49	0011	4474.	0.	0082	11	3752	54	
CHN	75	2	0014	0000	15	671112	14.180N	48.112W	5	41.48	0012	4069.	760.	0000	10	3739	54	
CHN	75	2	0015	0000	15	671112	13.554N	47.114W	5	41.37	0013	4213.	790.	0000	10	3029	54	
CHN	75	2	0016	0000	15	671113	13.215N	46.105W	5	41.36	0014	3718.	398.	0000	15	3329	54	
CHN	75	2	0018	0000	15	671117	13.221N	43.237W	4	41.33	0016	3742.	860.	0000	15	3729	54	
CHN	75	2	0018	0000	26	671117	13.221N	43.237W	4	41.33	0016	3742.	0.	0047	15	3329	54	
CHN	75	2	0019	0000	15	671117	13.240N	44.385W	4	41.34	0017	3093.	143.	0000	16	3329	54	
CHN	75	2	0019	0000	26	671117	13.240N	44.385W	4	41.34	0017	3093.	0.	0062	16	3329	54	
CHN	75	2	0020	0000	15	671118	13.220N	45.237W	4	41.35	0018	3538.	860.	0000	16	3329	54	
CHN	75	2	0020	0000	26	671118	13.220N	45.237W	4	41.35	0018	3538.	0.	0093	16	3329	54	
CHN	75	2	0029	0000	15	671123	12.595N	44.340W	5	41.24	0019	3266.	488.	0000	16	0000	54	
CHN	75	2	0029	0000	26	671123	12.595N	44.340W	5	41.24	0019	3266.	0.	0072	16	0000	54	
CHN	75	2	0030	0000	15	671123	12.590N	44.480W	5	41.24	0020	3612.	508.	0000	16	3324	54	
CHN	75	2	0030	0000	26	671123	12.590N	44.480W	5	41.24	0020	3612.	0.	0093	16	3329	54	
CHN	75	2	0031	0000	15	671124	13.000N	45.598W	8	41.35	0021	3229.	714.	0000	16	3722	54	
CHN	75	2	0031	0000	26	671124	13.000N	45.598W	8	41.35	0021	3229.	0.	0132	16	3322	54	
CHN	75	2	0032	0000	15	671124	12.575N	46.520W	8	41.26	0022	3276.	435.	0000	16	3329	54	
CHN	75	2	0032	0000	26	671124	12.575N	46.520W	8	41.26	0022	3276.	0.	0147	16	3329	54	
CHN	75	2	0033	0000	15	671125	13.042N	47.592W	4	41.37	0023	4067.	45.	0000	19	0853	54	
CHN	75	2	0034	0000	15	671125	13.015N	48.400W	4	41.38	0024	4698.	900.	0000	15	3432	54	
CHN	75	2	0034	0000	26	671125	13.015N	48.400W	4	41.38	0024	4698.	0.	0133	15	3329	54	
CHN	75	2	0035	0000	15	671126	12.590N	49.424W	8	41.29	0025	4966.	150.	0000	11	3430	54	
CHN	75	2	0035	0000	26	671126	12.590N	49.424W	8	41.29	0025	4966.	0.	0140	11	3329	54	
CHN	75	2	0036	0000	15	671126	13.020N	50.480W	8	41.30	0026	4816.	445.	0000	11	4329	54	
CHN	75	2	0036	0000	26	671126	13.020N	50.480W	8	41.30	0026	4816.	0.	0160	11	4969	54	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,1975 ********** **WHOI**

MARSDEN SQUARE # 42

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
AII	31	1	0019	0000	15	67 425	18.030N	59.080W	1	42.89	0018	5534.	748.	0000	16	1223	0	
AII	31	1	0019	0000	26	67 425	18.030N	59.080W	1	42.89	0018	5534.	0.	0098	16	6639	0	
AII	31	1	0019	0000	26	67 425	18.030N	59.080W	1	42.89	0018	5534.	0.	0098	16	6639	0	
CHN	36	1	0005	0000	15	63 625	17.175N	59.270W	4	42.79	0004	6080.	128.	0000	17	2839	0	
CHN	36	1	0006	0000	15	63 626	16.450N	57.385W	4	42.67	0005	5854.	78.	0000	19	1839	0	
CHN	36	1	0007	0000	15	63 627	16.465N	57.475W	5	42.67	0006	5854.	32.	0000	19	2839	0	
CHN	36	1	0009	0000	15	63 627	16.335N	57.507W	5	42.67	0007	4342.	244.	0000	19	3332	0	
CHN	36	1	0010	0000	15	63 628	16.350N	57.547W	5	42.67	0008	4327.	240.	0000	19	3329	0	
CHN	36	1	0011	0000	15	63 628	16.570N	58.240W	4	42.68	0009	5879.	81.	0000	19	1239	0	
CHN	36	1	0013	0000	15	63 629	16.182N	58.360W	5	42.68	0010	5538.	156.	0000	19	1939	0	
CHN	36	1	0014	0000	15	63 629	16.450N	58.276W	1	42.68	0011	4198.	82.	0000	19	3329	0	
CHN	44	1	0033	0000	13	6411 1	16.440N	58.270W	5	42.68	0001	4006.	84.	0000	19	3969	54	
CHN	44	1	0035	0000	15	6411 2	7.030N	58.160W	5	42.78	0003	5767.	273.	0000	19	1923	54	
CHN	44	1	0036	0000	13	6411 2	17.020N	58.160W	5	42.78	0004	5856.	25.	0000	19	2969	54	
CHN	44	1	0038	0000	13	6411 3	17.040N	57.570W	5	42.77	0006	5546.	100.	0000	19	1129	54	
CHN	75	2	0006	0000	15	6711 5	14.175N	59.350W	5	42.49	0004	3364.	326.	0000	99	3739	54	
CHN	75	2	0007	0000	15	6711 6	14.145N	58.249W	5	42.48	0005	3550.	625.	0000	99	3969	54	
CHN	75	2	0007	0000	26	6711 6	14.145N	58.249W	5	42.48	0005	3550.	0.	0056	99	3969	54	
CHN	75	2	0008	0000	15	6711 7	14.010N	57.235W	5	42.47	0006	5177.	625.	0000	10	1629	54	
CHN	75	2	0008	0000	26	6711 7	14.010N	57.235W	5	42.47	0006	5177.	0.	0092	10	3969	54	
CHN	75	2	0009	0000	15	6711 8	14.140N	55.472W	5	42.55	0007	5141.	792.	0000	10	1429	54	
CHN	75	2	0009	0000	26	6711 8	14.140N	55.472W	5	42.55	0007	5141.	0.	0173	10	3322	54	
CHN	75	2	0010	0000	15	6711 9	14.095N	54.070W	5	42.44	0008	5342.	515.	0000	10	9469	54	
CHN	75	2	0010	0000	26	6711 9	14.095N	54.070W	5	42.44	0008	5342.	0.	0089	10	9469	54	
CHN	75	2	0037	0000	15	671126	13.020N	51.142W	8	42.31	0027	5005.	435.	0000	10	3929	54	
CHN	75	2	0037	0000	26	671126	13.020N	51.142W	8	42.31	0027	5005.	0.	0180	10	3969	54	
CHN	75	2	0038	0000	15	671127	12.511N	52.480W	8	42.22	0028	5107.	57.	0000	10	4969	54	
CHN	75	2	0039	0000	15	671128	12.130N	54.150W	8	42.24	0029	4675.	865.	0000	6	3420	54	
CHN	75	2	0039	0000	26	671128	12.130N	54.150W	8	42.24	0029	4675.	0.	0178	6	3329	54	
CHN	75	2	0040	0000	15	671128	12.094N	55.400W	8	42.25	0030	4526.	718.	0000	6	3939	54	
CHN	75	2	0041	0000	15	671129	12.090N	56.090W	8	42.26	0031	4437.	10.	0000	6	3359	54	
CHN	75	2	0041	0000	26	671129	12.090N	56.090W	8	42.26	0031	4437.	0.	0149	6	3339	54	
CHN	75	2	0042	0000	15	671130	12.108N	57.486W	8	42.27	0032	2819.	765.	0000	4	3335	54	
CHN	75	2	0043	0000	15	671130	12.125N	59.000W	1	42.29	0033	2173.	693.	0000	1	3932	54	
CHN	75	3	0044	0000	15	671211	15.594N	57.438W	5	42.57	0034	5432.	834.	0000	19	1969	54	
CHN	75	3	0045	0000	15	671211	16.510N	57.378W	4	42.67	0035	5844.	0.	0111	19	1969	54	
CHN	75	3	0045	0000	15	671212	16.549N	57.380W	1	42.67	0036	5838.	109.	0000	19	9169	54	
CHN	75	3	0045	0000	26	671212	16.549N	57.380W	1	42.67	0036	5838.	0.	0145	19	9169	54	
CHN	75	3	0046	0000	15	671212	17.355N	57.430W	1	42.77	0037	5680.	75.	0000	19	9469	54	
CHN	75	3	0046	0000	26	671212	17.355N	57.430W	1	42.77	0037	5680.	0.	0145	19	9469	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 43										
ATL	240	1	0007	0000	15	5711 2	10.480N	65.515W	5	43.05	0007	253.	357.	0000	18	3769	0	
ATL	240	1	0008	0000	15	5711 2	10.440N	65.517W	5	43.05	0008	526.	542.	0020	8	3769	0	
ATL	240	1	0009	0000	15	5711 3	10.407N	65.515W	5	43.05	0009	1342.	375.	0000	18	2348	0	
ATL	240	1	0010	0000	15	5711 3	10.367N	65.498W	5	43.05	0010	673.	450.	0000	18	3349	0	
ATL	240	1	0011	0000	15	5711 4	10.288N	65.357W	5	43.05	0011	572.	56.	0000	18	4446	0	
ATL	240	1	0012	0000	15	5711 4	10.375N	65.324W	5	43.05	0012	1345.	591.	0000	18	3865	0	
ATL	240	1	0013	0000	15	5711 5	10.518N	65.318W	5	43.05	0013	942.	850.	0000	18	4446	0	
ATL	240	1	0014	0000	15	5711 5	10.552N	65.322W	5	43.05	0014	385.	840.	0000	18	4329	0	
ATL	240	1	0015	0000	15	5711 6	10.525N	65.080W	5	43.05	0015	354.	580.	0000	18	8455	0	
ATL	240	1	0016	0000	15	5711 7	10.387N	65.045W	5	43.05	0016	914.	715.	0000	18	3075	0	
ATL	240	1	0017	0000	15	5711 7	10.326N	64.512W	5	43.04	0017	1348.	760.	0000	18	4731	0	
ATL	240	1	0018	0000	15	5711 7	10.308N	64.400W	5	43.06	0018	1370.	952.	0000	18	4839	0	
ATL	240	1	0019	0000	15	5711 8	10.223N	64.425W	5	43.04	0019	177.	612.	0000	18	3845	0	
ATL	240	1	0020	0000	15	5711 8	10.240N	64.412W	5	43.04	0020	822.	915.	0000	18	4176	0	
ATL	240	1	0021	0000	15	5711 9	10.262N	64.415W	5	43.04	0021	980.	886.	0000	18	3029	0	
ATL	240	1	0022	0000	15	5711 9	10.340N	64.418W	5	43.04	0022	1281.	580.	0000	18	4378	0	
ATL	240	1	0023	0000	15	5711 9	10.472N	64.396W	5	43.04	0023	278.	909.	0000	18	3075	0	
ATL	246	0	0062	0000	15	5811 2	10.413N	64.400W	5	43.04	0024	342.	653.	0000	19	3479	0	
ATL	246	0	0062	0000	26	5811 2	10.413N	64.400W	5	43.04	0024	342.	0.	0061	19	3555	0	
ATL	246	0	0063	0000	15	5811 2	10.570N	64.385W	5	43.04	0025	338.	1027.	0000	19	4029	0	
ATL	246	0	0063	0000	26	5811 2	10.570N	64.385W	5	43.04	0025	338.	0.	0088	19	4029	0	
ATL	246	0	0064	0000	15	5811 4	10.060N	67.190W	5	43.07	0026	737.	582.	0000	19	4859	0	
ATL	246	0	0064	0000	26	5811 4	10.060N	67.190W	5	43.07	0026	737.	0.	0084	19	4859	0	
ATL	246	0	0065	0000	15	5811 5	11.010N	67.160W	5	43.17	0027	897.	614.	0000	19	3859	0	
ATL	246	0	0065	0000	26	5811 5	11.010N	67.160W	5	43.17	0027	897.	0.	0087	19	3859	0	
ATL	246	0	0066	0000	15	5811 4	11.280N	67.130W	5	43.17	0028	1935.	923.	0000	19	4355	0	
ATL	246	0	0066	0000	26	5811 4	11.280N	67.130W	5	43.17	0028	1935.	0.	0099	19	4355	0	
ATL	246	0	0068	0000	15	5811 5	12.340N	68.290W	5	43.28	0029	3210.	694.	0000	19	3355	0	
ATL	246	0	0068	0000	26	5811 5	12.340N	68.290W	5	43.28	0029	3210.	0.	0091	19	3355	0	
ATL	246	0	0069	0000	15	5811 5	12.100N	68.290W	5	43.28	0030	1499.	512.	0000	19	3355	0	
ATL	246	0	0069	0000	26	5811 5	12.100N	68.290W	5	43.28	0030	1499.	0.	0095	19	3569	0	
ATL	246	0	0070	0000	15	5811 6	11.470N	68.300W	5	43.18	0031	1803.	108.	0000	19	3359	0	
ATL	246	0	0070	0000	26	5811 6	11.470N	68.300W	5	43.18	0031	1803.	0.	0088	19	3569	0	
ATL	246	0	0071	0000	26	5811 6	11.255N	68.300W	5	43.18	0032	347.	0.	0071	19	4425	0	
CHN	11	1	0011	0000	15	60 225	17.100N	65.100W	4	43.75	0011	2940.	634.	0000	2	3739	0	
CHN	19	1	0002	0000	15	61 624	20.121N	66.362W	5	43.06	0002	5789.	463.	0000	13	1150	0	
CHN	19	1	0003	0000	15	61 7 1	20.150N	66.333W	5	43.06	0003	5787.	474.	0000	13	1150	0	
CHN	36	1	0004	0000	15	63 623	19.240N	61.300W	5	43.91	0003	5457.	143.	0000	17	1129	0	
CHN	41	1	0002	0000	13	6312 7	17.120N	67.460W	5	43.77	0002	5177.	203.	0000	13	3732	0	
CHN	57	1	0014	0000	15	66 314	20.142N	65.215W	5	43.05	0001	6154.	581.	0000	17	6659	54	
CHN	57	1	0014	0000	26	66 314	20.142N	65.215W	5	43.05	0001	6154.	0.	0061	17	6659	54	
CHN	57	1	0016	0000	26	66 317	20.053N	64.357W	5	43.04	0002	5808.	465.	0000	17	1629	54	
CHN	57	1	0016	0000	26	66 317	20.053N	64.357W	5	43.04	0002	5808.	0.	0044	17	1629	54	
CHN	57	1	0018	0000	15	66 318	20.063N	65.012W	5	43.05	0003	6159.	547.	0000	17	1129	54	
CHN	57	1	0021	0000	15	66 323	20.033N	66.090W	5	43.06	0004	6618.	298.	0000	17	0000	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 43											
CHN	57	1	0028	0000	15	66 4 6	20.000N	64.178W	5	43.04	0009	6414.	700.	0000	2	1629	54	
CHN	57	1	0029	0000	15	66 4 6	20.062N	65.505W	5	43.05	0010	7074.	604.	0000	2	1139	54	
CHN	57	1	0032	0000	15	66 4 7	19.560N	67.010W	5	43.97	0011	6907.	593.	0000	2	1129	54	
CHN	57	1	0036	0000	15	66 410	20.114N	67.386W	5	43.07	0012	5547.	532.	0000	2	1968	54	
CHN	57	1	0037	0000	15	66 410	19.590N	68.021W	5	43.98	0013	5384.	502.	0000	2	0000	54	
CHN	75	1	0001	0000	15	671023	19.240N	65.070W	5	43.95	0001	5690.	156.	0000	18	3344	54	
CHN	75	1	0002	0000	15	671026	19.295N	60.465W	5	43.90	0002	5262.	361.	0000	17	1479	54	
CHN	75	1	0002	0000	26	671026	19.295N	60.465W	5	43.90	0002	5262.	0.	0115	17	4459	54	
CHN	75	1	0004	0000	15	671030	14.447N	63.590W	5	43.43	0003	2376.	452.	0000	14	3029	54	
							MARSDEN SQUARE # 44											
ATL	246	0	0214	0000	26	581120	11.150N	71.350W	5	44.11	0033	18.	0.	0110	19	2255	0	
ATL	246	0	0215	0000	26	581121	11.265N	71.365W	5	44.11	0034	24.	0.	0063	19	2255	0	
ATL	246	0	0216	0000	26	581121	11.340N	71.355W	5	44.11	0035	22.	0.	0028	19	8855	0	
ATL	246	0	0217	0000	26	581121	11.460N	71.130W	5	44.11	0036	18.	0.	0087	19	1155	0	
ATL	246	0	0218	0000	26	581121	11.460N	71.050W	5	44.11	0037	16.	0.	0087	19	1155	0	
ATL	246	0	0219	0000	26	581121	11.450N	70.490W	5	44.10	0038	37.	0.	0055	19	2255	0	
CHN	41	1	0002	0000	15	6312 8	17.180N	72.110W	5	44.72	0002	4296.	513.	0000	13	3739	0	
CHN	41	1	0004	0000	13	631212	19.370N	76.270W	3	44.96	0004	6752.	121.	0000	13	3739	0	
							MARSDEN SQUARE # 45											
ATL	254	3	0324	0000	15	60 215	21.320N	83.100W	5	45.13	0001	3655.	601.	0000	0	3735	0	
ATL	254	3	0330	0000	15	60 220	19.350N	84.510W	5	45.51	0006	4579.	605.	0000	2	3339	0	
ATL	254	3	0330	0000	26	60 220	19.350N	84.510W	5	45.51	0006	4579.	0.	0034	2	3339	0	
ATL	254	3	0331	0000	15	60 221	19.120N	86.440W	5	45.96	0007	4526.	300.	0000	2	7339	0	
ATL	254	3	0331	0000	26	60 221	19.120N	86.440W	5	45.96	0007	4526.	0.	0067	2	3739	0	
ATL	254	3	0333	0000	15	60 222	18.290N	86.200W	5	45.86	0008	4402.	292.	0000	2	3849	0	
ATL	254	3	0333	0000	26	60 222	18.290N	86.200W	5	45.86	0008	4402.	0.	0076	2	3329	0	
ATL	254	3	0334	0000	15	60 222	17.520N	86.150W	5	45.76	0009	2440.	0.	0061	2	3759	0	
ATL	254	3	0335	0000	15	60 223	16.290N	86.345W	5	45.66	0010	2791.	0.	0066	2	3355	0	
							MARSDEN SQUARE # 65											
AII	15	5	0612	0000	13	65 4 4	13.350N	71.335E	9	65.31	0612	1697.	70.	0000	6	3355	0	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,175 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 66										
AII	15	5	0596	0000	18	65 327	18•560N	61•230E	9	66•81	0596	3694•	120•	0000	6	3359	0	
AII	15	5	0606	0000	26	65 4 2	14•250N	63•010E	9	66•43	0020	4023•	0•	0063	21	3432	0	
AII	15	5	0607	0000	18	65 4 2	14•160N	64•240E	9	66•44	0607	3965•	87•	0000	21	3359	0	
AII	15	5	0608	0000	13	65 4 3	14•070N	65•500E	9	66•45	0608	3957•	74•	0000	21	3339	0	
AII	15	5	0610	0000	13	65 4 3	14•020N	68•370E	9	66•48	0610	4075•	28•	0000	21	4359	0	
								MARSDEN SQUARE # 67										
AII	15	4	0547	0000	15	65 226	12•000N	51•540E	9	67•21	0007	1602•	190•	0000	16	3359	0	
AII	15	4	0547	0000	26	65 226	12•000N	51•540E	9	67•21	0007	1602•	0•	0052	16	3359	0	
AII	15	4	0552	0000	15	65 227	10•150N	53•100E	9	67•03	0008	4173•	656•	0000	16	0339	0	
AII	15	4	0552	0000	26	65 227	10•150N	53•100E	9	67•03	0008	4173•	0•	0039	16	0057	0	
AII	15	5	0597	0000	18	65 329	17•260N	57•110E	9	67•77	597A	1805•	86•	0000	6	3565	0	
AII	15	5	0597	0000	13	65 329	17•260N	57•110E	9	67•77	0597	1805•	17•	0000	6	3359	0	
AII	15	5	0597	0000	18	65 329	16•140N	54•460E	9	67•64	597B	2922•	90•	0000	6	3359	0	
AII	15	5	0597	0000	15	65 329	16•140N	54•460E	9	67•64	0019	2939•	670•	0000	6	3030	0	
AII	15	5	0599	0000	18	65 330	15•220N	53•110E	9	67•53	0599	2292•	110•	0000	6	3022	0	
AII	15	5	0600	0000	18	65 330	15•160N	54•380E	9	67•54	0600	2899•	100•	0000	6	0969	0	
AII	15	5	0602	0000	18	65 331	14•560N	57•210E	9	67•47	0602	3357•	106•	0000	6	0362	0	
CHN	100	4	0035	0000	15	71 4 4	14•017N	51•486E	1	67•41	0025	5329•	570•	0000	18	0339	54	
CHN	100	4	0035	0000	26	71 4 4	14•017N	51•486E	1	67•41	0025	5329•	0•	0119	18	3039	54	
								MARSDEN SQUARE # 68										
AII	15	3	0545	0000	18	65 219	16•340N	41•030E	9	68•61	0545	1981•	42•	0000	16	3439	0	
AII	15	4	0546	0000	15	65 223	11•530N	48•373E	9	68•18	0006	2136•	160•	0000	16	3459	0	
CHN	43	1	0004	0000	13	64 326	17•390N	40•100E	5	68•70	0001	1296•	90•	0000	16	3326	0	
CHN	43	1	0005	0000	13	64 326	17•390N	40•100E	5	68•70	0002	1470•	233•	0000	16	3328	0	
CHN	100	4	0032	0000	15	71 4 1	12•234N	43•422E	1	68•23	0024	313•	90•	0000	99	8468	54	GULF ADEN
								MARSDEN SQUARE # 69										
CHN	61	7	0152	0000	15	6611 2	19•485N	38•300E	0	69•98	0152	2359•	711•	0000	10	7759	0	
CHN	61	7	0152	0000	26	6611 2	19•485N	38•300E	0	69•98	0152	2359•	0•	0045	10	3731	0	
CHN	61	7	0155	0000	15	6611 5	19•235N	38•540E	0	69•98	0155	2046•	424•	0000	10	4817	0	
CHN	61	7	0155	0000	26	6611 5	19•235N	38•540E	0	69•98	0155	2046•	0•	0117	10	4867	0	
CHN	100	3	0001	0000	13	71 3 2	17•026N	39•530E	1	69•79	0001	176•	42•	0000	99	3359	0	RED SEA
CHN	100	3	0002	0000	13	71 3 3	17•400N	40•450E	1	69•70	0002	169•	97•	0000	99	3725	0	RED SEA
CHN	100	3	0003	0000	15	71 3 3	18•090N	39•530E	1	69•89	0003	1374•	798•	0000	16	3868	54	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 69										
CHN	100	3	0003	0000	15	71 3 3	18.090N	39.530E	1	69.89	0003	1374.	0.	0112	16	3232	54	
CHN	100	3	0005	0000	15	71 3 4	19.050N	39.595E	1	69.99	0004	328.	577.	0000	16	3238	54	RED SEA
CHN	100	3	0005	0000	26	71 3 4	19.050N	39.595E	1	69.99	0004	328.	0.	0108	16	3329	54	RED SEA
CHN	100	3	0006	0000	13	71 3 5	19.380N	38.362E	1	69.98	0005	2010.	101.	0000	16	3865	0	
CHN	100	3	0007	0000	15	71 3 7	20.277N	39.139E	9	69.09	0006	646.	636.	0000	99	3328	54	RED SEA
								MARSDEN SQUARE # 75										
CHN	96	14	0001	0000	15	69 11 6	27.215N	21.580W	8	75.71	0001	4879.	750.	0000	6	3329	54	
								MARSDEN SQUARE # 76										
CHN	96	14	0003	0000	15	69 11 9	29.105N	38.286W	9	76.98	0003	4760.	558.	0000	15	3731	54	
CHN	96	14	0003	0000	26	69 11 9	29.105N	38.286W	9	76.98	0003	4760.	0.	0109	15	3329	54	
CHN	99	2	0007	0000	15	70 429	29.184N	36.367W	8	76.96	0006	3936.	732.	0000	14	3739	54	MAR
CHN	99	2	0008	0000	15	70 5 2	29.306N	32.376W	8	76.92	0007	4307.	719.	0000	19	3329	54	
								MARSDEN SQUARE # 77										
AII	42	1	0033	0000	15	68 719	20.020N	49.468W	1	77.09	0021	4598.	825.	0000	10	3729	0	
CHN	21	1	0002	0000	13	61 829	28.577N	48.565W	5	77.88	0002	4532.	0.	0000	11	0000	0	IN JAR
CHN	21	1	0003	0000	15	61 829	29.000N	47.220W	5	77.97	0003	4654.	6.	0000	11	0000	0	REITZEL CBR
CHN	21	1	0003	0000	13	61 829	29.000N	47.220W	5	77.97	0003	4715.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0004	0000	13	61 830	28.565N	46.445W	5	77.86	0004	4376.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0005	0000	15	61 830	28.453N	44.563W	5	77.84	0005	3923.	170.	0000	19	3350	0	
CHN	21	1	0006	0000	15	61 9 1	29.059N	44.332W	5	77.94	0006	3328.	0.	0000	19	0000	0	IN JAR
CHN	21	1	0006	0000	13	61 9 1	29.059N	44.332W	5	77.94	0006	3328.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0007	0000	15	61 9 2	29.047N	44.162W	5	77.94	0007	3777.	0.	00.2	19	0000	0	
CHN	21	1	0007	0000	13	61 9 2	29.047N	44.162W	5	77.94	0007	3798.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0008	0000	15	61 9 2	29.050N	44.111W	5	77.94	0008	3771.	167.	0000	19	3350	0	
CHN	21	1	0009	0000	15	61 9 2	28.540N	43.363W	5	77.83	0009	2944.	0.	0000	19	0000	0	
CHN	21	1	0009	0000	13	61 9 2	28.540N	43.363W	5	77.83	0009	2933.	0.	0000	0	0000	0	IN JARS
CHN	21	1	0010	0000	15	61 9 3	29.032N	43.110W	5	77.93	0010	3072.	0.	0000	19	0000	0	1 JAR
CHN	21	1	0010	0000	13	61 9 3	29.032N	43.110W	5	77.93	0010	3065.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0011	0000	15	61 9 3	28.522N	42.540W	5	77.82	0011	3500.	0.	0000	19	0000	0	
CHN	21	1	0011	0000	13	61 9 3	28.522N	42.540W	5	77.82	0011	3529.	0.	0000	0	0000	0	IN JAR
CHN	21	1	0012	0000	15	61 9 4	28.513N	42.484W	5	77.82	0012	3474.	0.	0000	19	0000	0	
CHN	21	1	0013	0000	15	61 9 4	29.024N	41.095W	5	77.91	0013	4027.	108.	0000	19	3350	0	
CHN	61	10	0174	0000	15	66 12 9	27.525N	45.550W	0	77.75	0174	4148.	708.	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 77										
CHN	61	10	0175	0000	15	6612 9	27.525N	45.105W	0	77.75	0175	3690.	552.	0000	10	3329	0	
CHN	61	10	0177	0000	15	661211	28.190N	45.320W	6	77.85	0000	3881.	447.	0000	99	3359	54	
CHN	61	10	0178	0000	15	661211	28.435N	46.480W	6	77.86	0000	4300.	398.	0000	99	3969	54	
CHN	96	14	0004	0000	15	691112	29.528N	41.194W	8	77.91	0004	3608.	253.	0000	14	3329	54	
CHN	96	14	0004	0000	26	691112	29.528N	41.194W	8	77.91	0004	3608.	0.	0040	14	3329	54	
CHN	99	2	0005	0000	15	70 427	29.278N	41.343W	8	77.91	0004	3318.	830.	0000	14	3731	54	MAR
CHN	99	2	0006	0000	15	70 427	29.221N	40.513W	8	77.90	0005	3301.	194.	0000	14	3323	54	MAR
								MARSDEN SQUARE # 78										
AII	31	1	0020	0000	15	67 426	21.285N	60.290W	1	78.10	0020	5634.	752.	0000	16	1129	0	
AII	31	1	0020	0000	26	67 426	21.285N	60.290W	1	78.10	0020	5634.	0.	0093	16	1159	0	
AII	42	1	0034	0000	15	68 719	20.205N	50.518W	1	78.00	0022	4802.	848.	0000	10	3428	0	
AII	42	1	0035	0000	15	68 719	20.375N	51.515W	1	78.01	0023	5155.	45.	0000	10	2934	0	
AII	42	1	0038	0000	15	68 720	21.185N	53.580W	1	78.13	0024	5286.	895.	0000	10	4322	0	
AII	42	1	0039	0000	15	68 721	21.440N	55.020W	1	78.15	0025	5294.	805.	0000	11	1329	0	
AII	42	1	0041	0000	15	68 721	22.140N	56.390W	1	78.26	0027	5962.	738.	0000	11	1159	0	
AII	42	1	0042	0000	15	68 722	24.160N	58.230W	1	78.48	0028	5828.	746.	0000	11	1159	0	
AII	42	1	0042	0000	26	68 722	24.160N	58.230W	1	78.48	0028	5828.	0.	0197	11	1159	0	
AII	42	1	0378	0000	13	68 720	21.000N	52.560W	1	78.12	0001	4701.	145.	0000	10	3352	0	
CHN	21	1	0001	0000	13	61 827	29.510N	54.352W	5	78.94	0001	5607.	0.	0000	11	0000	0	IN JAR
CHN	39	1	0001	0000	13	63 9 6	29.000N	59.130W	5	78.99	0001	5815.	291.	0000	11	4869	0	
CHN	39	1	0004	0000	13	63 910	25.180N	55.445W	5	78.55	0002	5937.	201.	0000	11	1179	0	
CHN	39	1	0007	0000	13	63 911	24.033N	55.150W	5	78.45	0003	5984.	172.	0000	11	1159	0	
CHN	39	1	0009	0000	13	63 913	27.555N	57.000W	5	78.77	0004	5960.	172.	0000	11	1159	0	
CHN	39	1	0010	0000	13	63 914	28.300N	57.590W	5	78.87	0005	5696.	160.	0000	11	1429	0	
								MARSDEN SQUARE # 79										
AII	31	1	0021	0000	15	67 428	26.280N	61.415W	1	79.61	0021	5884.	521.	0000	16	2231	0	
AII	31	1	0022	0000	15	67 429	27.295N	63.055W	1	79.73	0022	5380.	92.	0000	10	1429	0	
AII	42	1	0043	0000	15	68 723	27.160N	60.375W	1	79.70	0029	5629.	257.	0000	10	1469	0	
AII	42	1	0043	0000	26	68 723	27.160N	60.375W	1	79.70	0029	5629.	0.	0165	10	4459	0	
AII	42	1	0044	0000	15	68 724	29.040N	62.000W	1	79.92	0030	5265.	911.	0000	10	2429	0	
AII	60	8	0003	0000	13	71 8 4	23.490N	69.318W	5	79.39	002C	5363.	270.	0000	10	4136	0	
AII	60	8	0005	0000	13	71 8 5	24.070N	68.200W	5	79.48	003C	5768.	28.	0000	13	2839	0	
AII	60	8	0006	0000	14	71 8 5	23.597N	68.315W	5	79.38	0001	5566.	61.	0000	13	3359	0	
AII	60	8	0007	0000	14	71 8 6	23.461N	68.432W	5	79.38	0002	5349.	96.	0000	13	3359	0	
AII	60	8	0008	0000	13	71 8 6	23.350N	68.540W	5	79.38	0004	5204.	203.	0000	13	4126	0	
AII	60	8	0008	0000	14	71 8 6	23.350N	68.540W	5	79.38	0003	5202.	92.	0000	13	3359	0	
AII	60	8	0009	0000	14	71 8 7	23.256N	69.048W	5	79.39	0004	5398.	89.	0000	13	3359	0	

MARSDEN SQUARE # 79

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
AII	60	8	0009	0000	13	71 8 6	23.240N	69.020W	5	79.39	0005	5368.	231.	0000	13	3436	0	
AII	60	8	0010	0000	13	71 8 7	23.100N	69.160W	5	79.39	0006	5501.	176.	0000	13	4139	0	
AII	60	8	0010	0000	14	71 8 7	23.110N	69.187W	5	79.39	0005	5501.	95.	0000	13	4459	0	
AII	60	8	0011	0000	13	71 8 8	22.503N	68.440W	5	79.28	0007	5504.	184.	0000	13	4439	0	
AII	60	8	0011	0000	14	71 8 7	22.503N	68.440W	5	79.28	0006	5504.	114.	0000	13	4459	0	
AII	60	8	0012	0000	14	71 8 8	22.599N	68.327W	5	79.28	0007	5445.	101.	0000	13	4969	0	
AII	60	8	0013	0000	14	71 8 8	23.100N	68.119W	5	79.38	0008	5246.	108.	0000	13	3329	0	
AII	60	8	0014	0000	14	71 8 9	23.199N	68.510W	5	79.38	0009	5444.	105.	0000	13	3359	0	
AII	60	8	0014	0000	13	71 8 8	23.198N	68.058W	5	79.38	0010	5450.	149.	0000	13	4429	0	
AII	60	8	0015	0000	14	71 8 9	23.290N	67.510W	5	79.37	0010	5630.	107.	0000	13	4969	0	
AII	60	8	0015	0000	13	71 8 9	23.285N	67.519W	5	79.37	0011	5630.	262.	0000	13	4339	0	
AII	60	8	0017	0000	13	71 810	23.542N	68.049W	5	79.38	0013	5719.	189.	0000	13	1439	0	
AII	60	8	0017	0000	14	71 8 9	23.531N	68.033W	5	79.38	0012	5715.	106.	0000	13	3359	0	
AII	60	8	0018	0000	14	71 810	23.434N	68.166W	5	79.38	0013	5520.	89.	0000	13	3359	0	
AII	60	8	0019	0000	14	71 810	23.367N	68.242W	5	79.38	0014	5379.	115.	0000	13	3359	0	
AII	60	8	0019	0000	13	71 810	23.360N	68.232W	5	79.38	0015	5379.	145.	0000	13	4329	0	
AII	60	8	0020	0000	13	71 811	23.283N	68.342W	5	79.38	0016	5249.	222.	0000	13	4316	0	
AII	60	8	0020	0000	14	71 811	23.291N	68.346W	5	79.38	0015	5223.	91.	0000	13	3359	0	
AII	60	8	0021	0000	14	71 811	23.155N	68.435W	5	79.38	0016	5303.	111.	0000	13	3969	0	
AII	60	8	0021	0000	13	71 811	23.140N	68.120W	5	79.38	0017	5333.	55.	0000	13	3359	0	
AII	60	8	0022	0000	13	71 811	22.510N	68.171W	5	79.28	0018	5282.	130.	0000	13	4969	0	
AII	60	8	0022	0000	14	71 812	22.515N	68.171W	5	79.28	0017	5313.	110.	0000	13	3359	0	
AII	60	8	0023	0000	13	71 812	22.440N	67.537W	5	79.27	0019	5365.	226.	0000	13	3969	0	
AII	60	8	0023	0000	14	71 812	22.445N	67.546W	5	79.27	0018	5320.	81.	0000	13	3359	0	
AII	60	8	0024	0000	14	71 812	22.516N	66.330W	5	79.27	0019	5821.	112.	0000	13	4339	0	
AII	60	8	0025	0000	14	71 813	22.319N	66.549W	5	79.26	0020	5658.	110.	0000	13	4459	0	
AII	60	8	0026	0000	14	71 813	22.155N	67.210W	5	79.27	0021	5417.	117.	0000	13	4969	0	
AII	60	8	0027	0000	14	71 813	21.511N	67.409W	5	79.17	0022	5207.	118.	0000	13	3359	0	
AII	60	8	0028	0000	14	71 814	21.073N	68.063W	5	79.18	0023	5444.	109.	0000	13	3359	0	
AII	60	8	0029	0000	14	71 814	20.385N	68.250W	5	79.18	0024	5157.	108.	0000	13	3359	0	
AII	60	8	0030	0000	14	71 814	20.130N	68.130W	5	79.08	0025	4850.	123.	0000	13	3359	0	
ATL	282	1	0001	0000	13	62 712	29.390N	66.220W	5	79.96	0001	5128.	209.	0000	13	4129	0	
ATL	282	1	0002	0000	13	62 713	28.520N	66.510W	5	79.86	0002	5451.	190.	0000	13	3459	0	
ATL	282	1	0009	0000	13	62 721	25.180N	69.010W	5	79.59	0009	5593.	196.	0000	10	4159	0	
ATL	282	1	0010	0000	13	62 722	23.370N	67.540W	5	79.37	0010	5668.	171.	0000	10	4159	0	
ATL	282	1	0011	0000	13	62 723	21.470N	68.510W	5	79.18	0011	5513.	185.	0000	10	1859	0	
ATL	282	1	0012	0000	13	62 724	20.220N	67.230W	5	79.07	0012	5416.	155.	0000	10	4143	0	
ATL	282	1	0013	0000	13	62 729	21.540N	66.370W	5	79.16	0013	5653.	131.	0000	10	4159	0	
ATL	282	1	0014	0000	13	62 730	23.400N	65.370W	5	79.35	0014	5771.	243.	0000	10	1159	0	
ATL	282	1	0015	0000	13	62 731	25.290N	64.340W	5	79.54	0015	5706.	245.	0000	10	1159	0	
ATL	282	1	0016	0000	13	62 8 1	27.100N	65.400W	5	79.75	0016	5413.	197.	0000	13	1453	0	
ATL	282	1	0017	0000	13	62 8 2	25.265N	66.400W	5	79.56	0017	5602.	254.	0000	13	4153	0	
ATL	282	1	0018	0000	13	62 8 2	27.050N	67.560W	5	79.77	0018	5195.	246.	0000	13	1449	0	
ATL	282	1	0020	0000	13	62 8 4	28.440N	69.050W	5	79.89	0020	5325.	243.	0000	13	4129	0	
ATL	282	1	0021	0000	13	62 815	28.570N	66.500W	5	79.86	0021	5306.	224.	0000	13	1429	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 79										
ATL	282	1	0022	0000	13	62 8 6	28.540N	64.390W	5	79.84	0022	4846.	301.	0000	13	3469	0	
CHN	11	1	0012	0000	15	60 229	20.500N	66.270W	4	79.06	0012	4548.	550.	0000	17	1179	0	
CHN	36	1	0001	0000	15	63 620	21.073N	65.025W	5	79.15	0001	5306.	173.	0000	17	4122	0	
CHN	36	1	0003	0000	15	63 622	20.180N	63.395W	5	79.03	0002	5728.	41.	0000	17	1223	0	
CHN	39	1	0011	0000	13	63 916	29.550N	60.315W	4	79.90	0006	5705.	193.	0000	11	1143	0	
CHN	39	1	0015	0000	13	63 919	29.465N	62.115W	4	79.92	0007	4897.	212.	0000	11	3149	0	
CHN	41	1	0001	0000	15	6312 5	21.530N	70.160W	5	79.10	0001	5492.	0.	0000	13	0000	0	IN JAR
CHN	47	1	0030	0000	18	65 5 4	29.305N	67.094W	5	79.97	0002	4130.	97.	0000	99	3422	54	SW BERMUDA
CHN	47	1	0034	0000	18	65 5 5	30.307N	66.520W	5	79.06	0003	5096.	100.	0000	99	1349	54	SW BERMUDA
CHN	57	1	0022	0000	15	66 325	22.407N	66.296W	5	79.26	0005	5820.	841.	0000	99	1849	54	
CHN	57	1	0022	0000	26	66 325	22.407N	66.296W	5	79.26	0005	5820.	0.	0085	13	4129	0	
CHN	57	1	0023	0000	15	66 325	22.280N	66.340W	5	79.26	0006	5613.	816.	0000	99	1429	54	NARES BASIN
CHN	57	1	0023	0000	26	66 325	22.280N	66.340W	5	79.26	0006	5613.	0.	0088	99	1159	54	NARES BASIN
CHN	57	1	0024	0000	15	66 329	22.423N	67.422W	5	79.27	0007	5531.	895.	0000	99	4839	54	NARES BASIN
CHN	57	1	0024	0000	26	66 329	22.423N	67.422W	5	79.27	0007	5531.	0.	0080	99	1439	54	NARES BASIN
CHN	57	1	0025	0000	15	66 329	22.400N	67.410W	5	79.27	0008	5389.	927.	0000	99	2429	54	
CHN	57	1	0038	0000	15	66 411	21.308N	68.147W	5	79.18	0014	5368.	551.	0000	99	0879	54	
KNR	25	1	0001	0000	14	72 210	25.015N	68.035W	5	79.58	0001	5523.	61.	0000	10	0000	40	
KNR	25	1	0002	0000	14	72 210	24.422N	68.080W	9	79.48	0002	5689.	147.	0000	10	0000	40	
KNR	25	1	0002	0000	16	72 215	23.556N	68.364W	5	79.38	0002	5515.	832.	0000	13	0000	0	
KNR	25	1	0003	0000	14	72 211	24.238N	68.114W	9	79.48	0003	5729.	150.	0000	10	0000	40	
KNR	25	1	0003	0000	17	72 215	22.150N	67.575W	5	79.27	0003	5374.	1139.	0000	13	2260	0	
KNR	25	1	0004	0000	14	72 216	23.452N	69.408W	5	79.39	0004	5392.	136.	0000	13	4459	0	
KNR	25	1	0004	0000	16	72 216	21.300N	67.310W	5	79.17	0004	5163.	2159.	0000	13	0012	0	
KNR	25	1	0005	0000	14	72 212	23.485N	69.545W	5	79.39	0005	5409.	140.	0000	13	0010	40	
KNR	25	1	0006	0000	14	72 212	23.526N	68.351W	9	79.38	0006	5486.	145.	0000	13	0010	40	
KNR	25	1	0007	0000	14	72 213	23.435N	68.415W	5	79.38	0007	5306.	145.	0000	13	0010	40	
KNR	25	1	0008	0000	14	72 213	23.572N	68.590W	9	79.38	0008	5451.	142.	0000	13	0010	40	
KNR	25	1	0009	0000	14	72 213	23.240N	69.061W	9	79.39	0009	5411.	147.	0000	13	0010	40	
KNR	25	1	0012	0000	13	72 214	23.467N	69.423W	5	79.39	0012	5419.	68.	0000	13	0010	0	
KNR	25	1	0013	0000	13	72 215	22.154N	67.569W	5	79.27	0013	5374.	39.	0000	13	0010	0	
								MARSDEN SQUARE # 80										
AII	1	1	0005	0000	15	63 228	29.100N	76.220W	5	80.96	0005	4994.	285.	0000	10	3739	0	
ATL	282	1	0003	0000	13	62 716	23.325N	70.020W	5	80.30	0003	5492.	120.	0000	10	4841	0	
ATL	282	1	0005	0000	13	62 717	23.280N	72.185W	5	80.32	0005	5287.	164.	0000	10	4149	0	
ATL	282	1	0006	0000	13	62 718	25.135N	73.160W	5	80.53	0006	5316.	188.	0000	10	4859	0	
ATL	282	1	0007	0000	13	62 719	26.590N	72.130W	5	80.62	0007	5154.	228.	0000	10	4129	0	
ATL	282	1	0008	0000	13	62 720	25.110N	71.160W	5	80.51	0008	5520.	30.	0000	10	4869	0	
ATL	282	1	0019	0000	13	62 8 3	27.040N	70.100W	5	80.70	0019	5482.	113.	0000	13	4249	0	
CHN	53	1	0001	0000	18	651020	28.490N	70.525W	5	80.80	0001	2949.	43.	0000	99	2839	0	
CHN	53	1	0002	0000	18	651021	28.530N	70.545W	5	80.80	0002	3791.	66.	0000	2	4839	0	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIOGRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 80										
CHN	53	1	0003	0000	18	651021	28.500N	70.540W	5	80.80	0003	3957.	34.	0000	2	2849	0	
CHN	53	1	0004	0000	18	651021	28.440N	70.556W	5	80.80	0004	4428.	26.	0000	2	2439	0	
KNR	25	6	0225	0000	13	72 5 2	22.480N	71.300W	5	80.21	0001	5152.	110.	0000	13	3269	0	
KNR	31	4	0007	0000	16	73 720	28.179N	72.178W	9	80.82	0007	4935.	4158.	0000	13	4139	0	
KNR	31	4	0008	0000	16	73 722	28.417N	75.160W	9	80.85	0008	4962.	2946.	0000	13	4331	0	
KNR	31	4	0009	0000	16	73 723	28.147N	74.264W	9	80.84	0009	4758.	3689.	0000	13	4139	0	
KNR	31	5	0010	0000	14	73 815	28.368N	75.195W	9	80.85	0010	4967.	99.	0000	13	4439	0	
KNR	31	5	0011	0000	16	73 816	28.380N	75.215W	11	80.85	0011	4967.	2464.	0000	13	4339	0	
KNR	31	5	0012	0000	16	73 819	28.356N	75.273W	9	80.85	0012	4980.	1399.	0000	10	4331	0	
KNR	31	5	0013	0000	14	73 819	28.357N	75.255W	11	80.85	0013	4982.	106.	0000	10	3339	0	
KNR	31	5	0014	0000	14	73 820	28.150N	75.245W	11	80.85	0014	4765.	110.	0000	13	3359	0	
KNR	31	5	0016	0000	18	73 824	28.161N	75.253W	11	80.85	0016	4780.	76.	0000	13	3433	0	
KNR	31	5	0016	0000	18	73 824	28.161N	75.253W	11	80.85	0018	4780.	76.	0000	13	3439	0	
KNR	31	5	0016	0000	18	73 824	28.161N	75.253W	11	80.85	0019	4773.	96.	0000	13	4269	0	
								MARSDEN SQUARE # 81										
ATL	254	3	0325	0000	15	60 216	21.110N	82.500W	5	81.72	0002	4463.	218.	0000	0	3725	0	
ATL	254	3	0325	0000	26	60 216	21.110N	82.500W	5	81.12	0002	4463.	0.	0055	0	3359	0	
ATL	254	3	0326	0000	15	60 216	21.110N	82.500W	5	81.12	0003	3596.	537.	0000	2	3000	0	
ATL	254	3	0326	0000	26	60 216	21.110N	82.500W	5	81.12	0003	3596.	0.	0056	2	3759	0	
ATL	254	3	0327	0000	15	60 217	20.020N	84.110W	5	81.04	0004	4500.	498.	0000	2	7439	0	
ATL	254	3	0328	0000	26	60 217	20.020N	84.110W	5	81.04	0005	4568.	0.	0072	2	3329	0	
								MARSDEN SQUARE # 102										
AII	15	4	0585	0000	13	65 321	20.090N	69.260E	9	102.09	0585	216.	80.	0000	2	3355	0	
AII	15	5	0586	0000	15	65 321	20.070N	67.550E	9	102.07	0016	3047.	1210.	0000	6	3422	0	
AII	15	5	0586	0000	26	65 321	20.070N	67.550E	9	102.07	0016	3047.	0.	0102	6	3332	0	
AII	15	5	0586	0000	13	65 321	20.075N	67.560E	9	102.07	0586	3049.	87.	0000	6	3332	0	
AII	15	5	0592	0000	18	65 325	20.500N	61.010E	9	102.01	0592	2628.	97.	0000	6	3359	0	
AII	15	5	0594	0000	15	65 325	20.350N	63.530E	9	102.03	0018	3338.	990.	0000	6	3860	0	
								MARSDEN SQUARE # 103										
AII	15	5	0589	0000	15	65 324	24.020N	59.531E	9	103.49	0017	3341.	742.	0000	6	2230	0	
AII	15	5	0589	0000	13	65 324	24.020N	59.531E	9	103.49	0589	3341.	82.	0000	6	4239	0	
AII	15	5	0590	0000	13	65 324	23.070N	59.220E	9	103.39	0590	1805.	42.	0000	4	3359	0	
AII	15	5	0591	0000	13	65 325	21.000N	59.330E	9	103.19	0591	1267.	70.	0000	4	3359	0	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DEVICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX TYPE	MARS-DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 104										
AII	15	14	0749	0000	13	65 617	25.555S	43.215E	9	104.53	0749	3802.	136.	0000	6	0352	0	
								MARSDEN SQUARE # 105										
AII	15	3	0541	0000	15	65 218	21.170N	38.020E	9	105.18	0004	2089.	0.	0000	20	0000	0	3 BAGS
CHN	61	5	0072	0000	15	661018	21.178N	38.028E	6	105.18	0072	1931.	206.	0000	99	4332	54	
CHN	61	5	0073	0000	13	661018	21.147N	38.047E	6	105.18	0073	2028.	51.	0000	99	3432	54	
CHN	61	6	0078	0000	18	661017	21.228N	38.005E	0	105.18	0FFA	1748.	40.	0000	10	3729	0	
CHN	61	6	0078	0000	18	661018	21.225N	38.040E	0	105.18	0FFC	2056.	90.	0000	10	0059	0	
CHN	61	6	0078	0000	18	661018	21.225N	38.047E	0	105.18	0FFD	2084.	95.	0000	10	0059	0	
CHN	61	6	0079	0000	18	661018	21.213N	38.036E	0	105.18	0079	2154.	219.	0000	10	0019	0	
CHN	61	6	0080	0000	15	661019	21.169N	38.020E	6	105.18	0000	2202.	855.	0000	99	4869	54	
CHN	61	6	0081	0000	15	661019	21.170N	38.021E	0	105.18	0081	2167.	882.	0000	10	4341	0	
CHN	61	6	0081	0000	26	661019	21.170N	38.021E	0	105.18	0081	2167.	0.	0135	10	4079	0	
CHN	61	6	0082	0000	18	661019	21.188N	38.038E	0	105.18	0FFB	1984.	92.	0000	10	0019	0	
CHN	61	6	0082	0000	18	661019	21.188N	38.035E	0	105.18	0FFC	1944.	104.	0000	10	4459	0	
CHN	61	6	0082	0000	18	661019	21.188N	38.032E	0	105.18	000D	1967.	121.	0000	10	0439	0	
CHN	61	6	0084	0000	15	661020	21.210N	38.038E	6	105.18	0000	2167.	955.	0000	99	0019	54	
CHN	61	6	0084	0000	20	661020	21.210N	38.038E	1	105.18	0084	2132.	400.	0000	20	0000	0	
CHN	61	6	0084	0000	26	661020	21.210N	38.038E	6	105.18	0000	2167.	0.	0070	99	0059	54	
CHN	61	6	0085	0000	20	661020	21.188N	38.039E	1	105.18	0085	1939.	400.	0000	20	0000	0	
CHN	61	6	0089	0000	13	661022	21.233N	38.034E	6	105.18	000B	1917.	90.	0000	99	0432	54	
CHN	61	6	0089	0000	18	661022	21.228N	38.023E	0	105.18	000D	2107.	121.	0000	10	0059	0	
CHN	61	6	0094	0000	13	661020	21.208N	38.039E	0	105.18	0094	2171.	255.	0000	10	0039	0	
CHN	61	6	0095	0000	13	661022	21.233N	38.031E	0	105.18	0095	1940.	200.	0000	10	0039	0	
CHN	61	6	0095	0000	20	661022	21.234N	38.033E	1	105.18	0095	1882.	305.	0000	20	0000	0	
CHN	61	6	0096	0000	13	661022	21.265N	38.030E	0	105.18	0096	2048.	54.	0000	10	0059	0	
CHN	61	6	0106	0000	15	661023	21.212N	38.035E	0	105.18	0106	2167.	84.	0000	10	0059	0	
CHN	61	6	0107	0000	13	661023	21.217N	38.033E	0	105.18	0107	2153.	78.	0000	10	0039	0	
CHN	61	6	0108	0000	15	661023	21.224N	38.047E	0	105.18	0108	1889.	197.	0000	10	0039	0	
CHN	61	6	0109	0000	15	661023	21.241N	38.040E	0	105.18	0109	2078.	260.	0000	10	0039	0	
CHN	61	6	0111	0000	18	661024	21.216N	38.055E	0	105.18	111D	1966.	122.	0000	10	0339	0	
CHN	61	6	0111	0000	18	661024	21.216N	38.053E	0	105.18	111C	2017.	122.	0000	10	0059	0	
CHN	61	6	0118	0000	20	661025	21.144N	38.043E	1	105.18	0118	1959.	400.	0000	20	0000	0	
CHN	61	6	0120	0000	20	661025	21.226N	38.045E	1	105.18	0120	2028.	400.	0000	20	0000	0	
CHN	61	6	0122	0000	13	661026	21.176N	38.015E	0	105.18	0122	1944.	298.	0000	10	0331	0	
CHN	61	7	0124	0000	15	661030	21.232N	38.043E	6	105.18	0000	2057.	125.	0000	99	4459	54	
CHN	61	7	0124	0000	26	661030	21.232N	38.043E	6	105.18	0000	2057.	0.	0095	99	0039	54	
CHN	61	7	0126	0000	15	661030	21.219N	38.044E	6	105.18	0000	2068.	810.	0000	99	0039	54	
CHN	61	7	0126	0000	26	661030	21.219N	38.044E	6	105.18	0000	2068.	0.	0205	99	0000	0	
CHN	61	7	0127	0000	15	661030	21.224N	38.029E	6	105.18	0000	2106.	834.	0000	99	0449	54	
CHN	61	7	0127	0000	26	661030	21.224N	38.029E	6	105.18	0000	2106.	0.	0148	99	0059	54	
CHN	61	7	0128	0000	15	661030	21.254N	38.034E	6	105.18	0000	2077.	874.	0000	99	0339	54	

MARSDEN SQUARE # 105

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
CHN	61	7	0128	0000	26	661030	21.254N	38.034E	6	105.18	0000	2077.	0.	0170	99	0339	54	
CHN	61	7	0129	0000	15	661030	21.253N	38.029E	6	105.18	0000	2027.	158.	0000	99	4447	54	
CHN	61	7	0135	0000	13	6611 1	21.300N	38.160E	0	105.18	0135	752.	23.	0000	10	4969	0	
CHN	61	7	0136	0000	13	6611 1	21.280N	38.130E	0	105.18	0136	1277.	39.	0000	10	3352	0	
CHN	61	7	0139	0000	18	6611 1	21.257N	38.028E	0	105.18	000A	1972.	122.	0000	10	0447	0	
CHN	61	7	0139	0000	18	6611 1	21.257N	38.027E	0	105.18	000B	2007.	122.	0000	10	0017	0	
CHN	61	7	0143	0000	20	6611 2	21.270N	38.030E	1	105.18	0143	1882.	354.	0000	20	0000	0	
CHN	61	7	0151	0000	15	6611 3	20.420N	38.150E	0	105.08	0151	2302.	301.	0000	10	4345	0	
CHN	61	7	0153	0000	15	6611 4	19.430N	38.410E	6	105.98	0000	2704.	755.	0000	99	3439	54	
CHN	61	7	0153	0000	26	6611 4	19.430N	38.410E	6	105.98	0000	2704.	0.	0157	99	3732	54	
CHN	61	7	0154	0000	15	6611 4	19.340N	38.595E	6	105.98	0000	1275.	890.	0000	99	3439	54	
CHN	61	7	0154	0000	26	6611 4	19.340N	38.595E	6	105.98	0000	1275.	0.	0092	99	3329	54	
CHN	61	7	0156	0000	18	6611 6	20.590N	38.190E	0	105.08	0FFA	1748.	50.	0000	10	3429	0	
CHN	61	7	0156	0000	18	6611 6	20.585N	38.205E	0	105.08	0FFB	1331.	65.	0000	10	3339	0	
CHN	61	7	0158	0000	13	6611 7	21.178N	38.028E	0	105.18	0158	2209.	162.	0000	10	3439	0	
CHN	61	7	0159	0000	15	6611 7	21.182N	38.035E	6	105.18	0000	1982.	332.	0000	99	4962	0	
CHN	61	7	0159	0000	26	6611 7	21.182N	38.035E	6	105.18	0000	1982.	0.	0160	99	0337	0	
CHN	61	7	0161	0000	20	6611 9	21.186N	38.037E	1	105.18	0161	1920.	324.	0000	20	0000	0	
CHN	61	7	0165	0000	26	6611 9	22.282N	37.465E	0	105.27	0165	2167.	0.	0102	10	3739	0	
CHN	61	7	0167	0000	15	661110	23.200N	37.200E	0	105.37	0167	827.	757.	0000	10	3329	0	
CHN	100	3	0008	0000	15	71 3 9	21.208N	38.062E	10	105.18	0007	2163.	1180.	0000	16	0000	54	
CHN	100	3	0008	0000	26	71 3 7	21.208N	38.062E	1	105.18	0007	2163.	0.	0147	20	0000	0	UNSPLIT
CHN	100	3	0010	0000	15	71 3 9	21.240N	38.048E	1	105.18	0009	1931.	1175.	0000	20	0000	0	UNSPLIT
CHN	100	3	0010	0000	26	71 3 9	21.240N	38.048E	1	105.18	0009	1931.	0.	0153	20	0000	0	UNSPLIT
CHN	100	3	0012	0000	15	71 310	21.249N	38.044E	1	105.18	0010	1931.	346.	0000	16	0000	54	
CHN	100	3	0012	0000	26	71 310	21.249N	38.044E	1	105.18	0010	1931.	0.	0153	16	0000	54	
CHN	100	3	0013	0000	13	71 310	21.256N	38.026E	1	105.18	0011	2088.	133.	0000	20	0000	0	UNSPLIT
CHN	100	3	0014	0000	15	71 311	21.250N	38.048E	1	105.18	0012	2035.	0.	0153	16	0000	54	
CHN	100	3	0014	0000	26	71 311	21.250N	38.048E	1	105.18	0012	2035.	0.	0153	20	0000	0	UNSPLIT
CHN	100	3	0016	0000	15	71 311	21.081N	38.052E	1	105.18	0013	1838.	209.	0000	20	0000	0	UNSPLIT
CHN	100	3	0016	0000	26	71 311	21.181N	38.052E	1	105.18	0013	1838.	0.	0086	20	0000	0	UNSPLIT
CHN	100	3	0018	0000	26	71 311	21.248N	38.047E	1	105.18	0014	1926.	0.	0153	20	0000	0	UNSPLIT
CHN	100	3	0018	0000	15	71 311	21.248N	38.047E	1	105.18	0014	1926.	565.	0000	20	0000	0	UNSPLIT
CHN	100	3	0019	0000	15	71 312	21.210N	38.051E	1	105.18	0015	1869.	140.	0000	20	0000	0	UNSPLIT
CHN	100	3	0019	0000	26	71 312	21.210N	38.051E	1	105.18	0015	1869.	0.	0125	20	0000	0	UNSPLIT
CHN	100	3	0020	0000	15	71 312	21.191N	38.074E	1	105.18	0016	1880.	485.	0000	16	3421	54	
CHN	100	3	0020	0000	26	71 312	21.191N	38.074E	1	105.18	0016	1880.	0.	0152	16	3327	54	
CHN	100	3	0023	0000	15	71 313	21.166N	37.597E	1	105.17	0017	1659.	775.	0000	16	3327	54	
CHN	100	3	0024	0000	15	71 316	21.217N	38.039E	1	105.18	0018	2128.	905.	0000	20	0000	0	UNSPLIT
CHN	100	3	0024	0000	26	71 316	21.217N	38.039E	1	105.18	0018	2128.	0.	0153	20	0000	0	UNSPLIT
CHN	100	3	0026	0000	15	71 316	21.222N	38.140E	1	105.18	0019	1390.	739.	0000	16	3827	54	
CHN	100	3	0027	0000	15	71 316	21.224N	38.173E	1	105.18	0020	1026.	508.	0000	16	3838	54	
CHN	100	3	0028	0000	15	71 320	21.188N	38.585E	1	105.18	0021	885.	606.	0000	16	3738	54	
CHN	100	3	0028	0000	26	71 320	21.188N	38.585E	1	105.18	0021	885.	0.	0148	16	3739	54	
CHN	100	3	0030	0000	15	71 320	21.240N	38.114E	1	105.18	0022	1071.	552.	0000	16	3338	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 105											
CHN	100	3	0030	0000	26	71 320	21•240N	38•114E	1	105•18	0022	1071•	0•	0057	16	3329	54	
CHN	100	3	0031	0000	15	71 323	20•510N	38•091E	1	105•08	0023	1827•	24•	0000	16	3357	54	
CHN	100	3	0031	0000	26	71 323	20•510N	38•091E	1	105•08	0023	1827•	0•	0064	16	3359	54	
							MARSDEN SQUARE # 109											
CHN	82	6	0021	0000	15	68 728	36•095N	7•163W	8	109•67	0001	830•	674•	0000	4	4869	54	
CHN	82	6	0021	0000	26	68 728	36•095N	7•163W	8	109•67	0001	830•	0•	0077	4	4869	54	
							MARSDEN SQUARE # 110											
CHN	21	1	0014	0000	15	61 915	33•320N	18•110W	5	110•38	0014	3813•	0•	0000	10	0000	0	
CHN	21	1	0014	0000	13	61 915	33•320N	18•110W	5	110•38	0014	3835•	0•	0000	0	0000	0	IN JAR
CHN	21	1	0015	0000	13	61 915	34•000N	15•510W	5	110•45	0015	3929•	167•	0000	11	3350	0	
CHN	82	6	0022	0000	15	68 731	35•390N	13•420W	8	110•53	0002	4853•	708•	0000	4	3831	54	
CHN	82	6	0022	0000	26	68 731	35•390N	13•420W	8	110•53	0002	4853•	0•	0060	4	3831	54	
							MARSDEN SQUARE # 111											
CHN	7	8	0011	0000	15	59 617	30•300N	28•230W	4	111•08	0011	4204•	73•	0000	21	3599	0	
CHN	61	10	0171	0000	15	661111	26•420N	39•230W	6	111•69	0171	4279•	760•	0000	10	3322	54	
CHN	61	10	0172	0000	15	6612 6	26•335N	39•585W	0	111•69	0172	4356•	160•	0000	10	3329	0	
CHN	96	14	0008	0000	26	691119	30•313N	20•197W	9	111•00	0008	4818•	0•	0055	6	3839	54	
CHN	96	14	0010	0000	15	6912 3	32•361N	21•262W	9	111•21	0010	5129•	840•	0000	6	3731	54	
CHN	96	14	0010	0000	26	6912 3	32•361N	21•262W	9	111•21	0010	5129•	0•	0103	6	4331	54	
							MARSDEN SQUARE # 112											
KNR	31	3	0001	0000	16	73 628	36•268N	32•001W	9	112•62	0001	2829•	1083•	0000	14	3324	0	
							MARSDEN SQUARE # 113											
CHN	96	14	0006	0000	15	691113	30•184N	42•378W	9	113•02	0006	3205•	536•	0000	14	3721	54	
CHN	96	14	0006	0000	26	691113	30•184N	42•378W	9	113•02	0006	3205•	0•	0082	14	3329	54	
CHN	96	15	0012	0000	15	6912 9	30•157N	43•189W	8	113•03	0012	3955•	517•	0000	19	3739	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 113										
CHN	96	15	0013	0000	13	6912 9	30•044N	42•289W	8	113•02	0013	5216•	59•	0000	19	8339	54	
CHN	96	15	0014	0000	15	691210	30•219N	44•072W	8	113•04	0014	4119•	293•	0000	19	3329	54	
CHN	96	15	0015	0000	15	691210	30•299N	44•505W	8	113•04	0015	4083•	286•	0000	19	3731	54	
CHN	99	2	0002	0000	15	70 423	30•410N	46•279W	8	113•06	0001	4294•	800•	0000	19	3329	54	
CHN	99	2	0003	0000	15	70 423	31•177N	46•131W	8	113•16	0002	4358•	525•	0000	19	3329	54	
CHN	99	2	0004	0000	15	70 425	31•135N	43•431W	8	113•13	0003	3857•	673•	0000	19	3322	0	
								MARSDEN SQUARE # 114										
KNR	31	3	0003	0000	16	73 7 6	33•508N	57•024W	9	114•37	0003	5090•	2996•	0000	13	2439	0	
KNR	31	3	0005	0000	16	73 710	33•412N	57•369W	9	114•37	0005	4583•	3191•	0000	13	4439	0	
KNR	31	3	0006	0000	16	73 711	33•569N	57•213W	9	114•37	0006	4672•	1404•	0000	13	1423	0	
								MARSDEN SQUARE # 115										
AII	1	1	0009	0000	15	63 328	36•345N	67•305W	5	115•67	0009	4979•	26•	0000	10	4459	0	
AII	42	1	0045	0000	15	68 724	30•540N	63•230W	1	115•03	0031	5006•	896•	0000	10	3431	0	
ATL	282	1	0001	0000	13	62 711	30•270N	65•450W	5	115•05	001A	4945•	269•	0000	13	3869	0	
ATL	282	1	0023	0000	15	62 8 7	30•270N	67•580W	5	115•07	0023	5188•	437•	0000	13	2379	0	
ATL	296	0	0001	0000	13	63 8 5	38•445N	63•340W	5	115•83	0001	5043•	63•	0000	12	8339	0	
ATL	296	0	0002	0000	13	63 8 6	37•530N	63•220W	5	115•73	0002	5043•	46•	0000	12	3839	0	
ATL	296	0	0004	0000	13	63 8 9	39•320N	65•495W	5	115•95	0004	4345•	145•	0000	12	4229	0	
ATL	296	0	0005	0000	13	63 8 9	39•090N	65•540W	5	115•95	0005	4616•	197•	0000	10	4239	0	
ATL	296	0	0006	0000	13	63 810	39•330N	66•170W	5	115•93	0006	4340•	187•	0000	10	1339	0	
ATL	296	0	0007	0000	13	63 810	39•470N	65•155W	5	115•95	0007	4481•	227•	0000	10	2839	0	
ATL	296	0	0008	0000	13	63 811	39•265N	65•090W	5	115•95	0008	4773•	112•	0000	10	2839	0	
ATL	296	0	0009	0000	13	63 811	39•460N	66•280W	5	115•96	0009	3940•	180•	0000	10	2839	0	
ATL	297	1	6375	0000	13	63 819	36•505N	69•360W	0	115•69	0005	4396•	58•	0000	2	4459	0	
ATL	297	1	6377	0000	13	63 819	36•470N	69•530W	0	115•69	0006	4401•	60•	0000	2	4459	0	
ATL	297	1	6380	0000	13	63 823	37•250N	69•280W	0	115•79	0007	4270•	39•	0000	2	3359	0	
ATL	297	1	6381	0000	13	63 824	37•410N	69•335W	0	115•79	0008	4110•	117•	0000	2	3359	0	
CHN	13	1	0001	0000	15	60 710	34•280N	62•130W	0	115•42	0001	4956•	579•	0000	13	3129	0	
CHN	13	1	0002	0000	15	60 711	35•320N	61•080W	0	115•51	0002	4821•	882•	0000	13	3332	0	
CHN	19	1	0001	0000	15	61 618	31•500N	64•450W	5	115•14	0001	4149•	415•	0000	13	3735	0	
CHN	47	1	0004	0000	18	65 423	34•533N	66•420W	5	115•46	0001	5151•	111•	0000	99	3279	54	
KNR	31	5	0017	0000	18	73 9 2	39•251N	67•013W	11	115•97	0022	4039•	51•	0000	6	0259	0	
KNR	31	5	0017	0000	18	73 9 2	39•251N	67•014W	11	115•97	0023	4026•	98•	0000	6	2028	0	
KNR	31	5	0018	0000	18	73 9 2	39•243N	67•041W	11	115•97	0024	3929•	149•	0000	6	0000	0	
KNR	31	5	0019	0000	18	73 9 2	39•216N	67•052W	11	115•97	0025	2515•	85•	0000	6	4814	0	
KNR	31	5	0020	0000	18	73 9 2	39•205N	67•065W	9	115•97	0026	2726•	224•	0000	6	0000	0	

MARSDEN SQUARE # 116

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
AII	1	1	0001	0000	15	63 225	32.020N	74.090W	5	116.24	0001	4870.	222.	0000	10	4250	0	
AII	1	1	0002	0000	15	63 225	31.150N	73.580W	5	116.13	0002	5070.	211.	0000	10	4250	0	
AII	1	1	0003	0000	15	63 226	30.560N	74.360W	5	116.04	0003	3539.	177.	0000	10	4450	0	
AII	1	1	0008	0000	15	63 3 3	37.100N	70.130W	5	116.70	0008	4291.	80.	0000	10	3860	0	
AII	72	1	0002	0000	15	721021	39.585N	70.345W	5	116.90	0002	298.	345.	0000	4	2848	40	
AII	72	1	0003	0000	15	721021	39.499N	70.343W	9	116.90	0003	856.	824.	0000	4	2849	0	
AII	72	1	0003	0000	26	721021	39.499N	70.343W	9	116.90	0003	856.	0.	0099	4	2849	0	
AII	72	1	0004	0000	15	721021	39.436N	70.327W	9	116.90	0004	1937.	637.	0000	4	2430	0	
AII	72	1	0004	0000	26	721021	39.436N	70.327W	9	116.90	0004	1937.	0.	0020	4	3869	0	
AII	72	1	0005	0000	15	721021	39.398N	70.336W	5	116.90	0005	2105.	710.	0000	4	2239	0	
AII	72	1	0005	0000	26	721021	39.398N	70.336W	5	116.90	0005	2105.	0.	0016	4	3869	0	0
AII	72	1	0007	0000	15	721021	39.406N	71.003W	9	116.91	0006	2008.	612.	0000	4	4239	40	
AII	72	1	0007	0000	26	721021	39.406N	71.003W	9	116.91	0006	2008.	0.	0090	4	3869	40	
AII	72	1	0008	0000	15	721022	39.495N	70.598W	9	116.90	0007	1002.	235.	0000	4	3439	40	
AII	72	1	0008	0000	26	721022	39.495N	70.598W	9	116.90	0007	1002.	0.	0049	4	3429	40	
AII	72	1	0009	0000	15	721022	39.376N	70.597W	9	116.90	0008	397.	693.	0000	4	2225	40	
AII	72	1	0009	0000	26	721022	39.376N	70.597W	9	116.90	0008	397.	0.	0139	4	2225	40	
AII	72	1	0013	0000	15	721023	39.555N	70.433W	9	116.90	0011	667.	482.	0000	4	2838	40	
AII	72	1	0013	0000	26	721023	39.555N	70.433W	9	116.90	0011	667.	0.	0103	4	2439	40	
AII	72	1	0014	0000	15	721023	39.489N	70.435W	5	116.90	0012	1249.	320.	0000	4	2259	40	
AII	72	1	0014	0000	26	721023	39.489N	70.435W	5	116.90	0012	1249.	0.	0124	4	2255	40	
AII	72	1	0015	0000	15	721023	39.410N	70.457W	5	116.90	0013	2218.	467.	0000	4	2329	40	
AII	72	1	0015	0000	26	721023	39.410N	70.457W	5	116.90	0013	2218.	0.	0035	4	3869	40	
AII	72	1	0016	0000	15	721026	39.281N	70.456W	9	116.90	0014	2478.	776.	0000	4	2339	0	
AII	72	1	0016	0000	26	721026	39.281N	70.456W	9	116.90	0014	2478.	0.	0099	4	3869	0	
AII	72	1	0017	0000	15	721026	39.435N	70.471W	9	116.90	0015	1331.	565.	0000	4	2325	40	
AII	72	1	0019	0000	15	721028	32.320N	73.298W	9	116.23	0016	5058.	850.	0000	4	4231	40	
AII	72	1	0019	0000	26	721028	32.320N	73.298W	9	116.23	0016	5058.	0.	0096	4	2331	40	
AII	72	1	0020	0000	15	721028	32.517N	73.588W	9	116.23	0017	4808.	657.	0000	4	4839	40	
AII	72	1	0021	0000	26	721029	34.105N	75.516W	9	116.45	0018	481.	0.	0010	4	3865	40	
AII	72	1	0021	0000	15	721029	34.105N	75.516W	9	116.45	0018	481.	812.	0000	4	3855	40	
AII	72	1	0022	0000	15	721029	34.130N	75.420W	9	116.45	0019	1331.	0.	0010	4	3865	40	JAR SAMPLE
AII	72	1	0022	0000	26	721029	34.130N	75.420W	9	116.45	0019	1331.	0.	0010	4	3567	40	IN JAR
AII	72	1	0023	0000	15	721029	34.022N	75.393W	5	116.45	0020	2189.	832.	0000	4	4329	40	
AII	72	1	0023	0000	26	721029	34.022N	75.393W	5	116.45	0020	2189.	0.	0115	4	3355	40	
AII	72	1	0024	0000	15	721029	34.032N	75.400W	5	116.45	0021	2202.	198.	0000	4	4324	40	
AII	72	1	0025	0000	13	721030	34.010N	75.370W	5	116.45	0022	2942.	124.	0000	4	0025	0	
AII	72	1	0026	0000	15	721030	33.495N	75.180W	5	116.35	0023	3204.	863.	0000	6	0325	40	
AII	72	1	0026	0000	26	721030	33.495N	75.180W	5	116.35	0023	3204.	0.	0118	6	3349	40	
AII	72	1	0027	0000	15	721031	33.269N	74.535W	9	116.34	0024	3824.	787.	0000	6	3221	40	
AII	72	1	0027	0000	26	721031	33.269N	74.535W	9	116.34	0024	3824.	0.	0052	6	3869	40	
AII	72	1	0029	0000	14	721031	33.073N	74.278W	5	116.34	0025	4307.	161.	0000	4	4459	40	
AII	72	1	0030	A000	18	7211 3	34.138N	71.545W	5	116.41	026A	4734.	99.	0000	6	3329	0	
AII	72	1	0030	B000	18	7211 3	34.145N	71.530W	5	116.41	026B	4730.	53.	0000	6	3329	0	
AII	72	1	0030	C000	18	7211 3	34.138N	71.548W	5	116.41	026C	4697.	62.	0000	6	4329	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 116											
AII	72	1	0031	0000	14	7211 4	34•150N	71•515W	5	116•41	0027	4717•	96•	0000	6	4449	40	
ATL	297	1	6369	0000	13	63 818	36•400N	70•110W	0	116•60	0001	4418•	111•	0000	2	3839	0	
ATL	297	1	6371	0000	13	63 818	37•100N	70•250W	0	116•70	0002	4261•	40•	0000	2	4459	0	
ATL	297	1	6372	0000	13	63 818	37•155N	70•070W	0	116•70	0003	4243•	21•	0000	2	3359	0	
CHN	11	1	0013	0000	15	60 320	33•000N	72•150W	4	116•32	0013	3010•	610•	0000	10	3831	0	
							MARSDEN SQUARE # 141											
AII	15	3	0522	0000	13	65 214	30•200N	32•250E	9	141•02	0BL1	10•	100•	0000	99	4470	0	
AII	15	3	0522	0000	13	65 214	30•200N	32•250E	9	141•02	0BL2	10•	0•	0000	99	0000	0	IN JAR
AII	15	3	0522	0000	13	65 214	30•200N	32•250E	9	141•02	0BL3	10•	115•	0000	99	4470	0	
CHN	61	4	0055	0000	15	66 922	34•492N	31•044E	6	141•41	0000	2468•	510•	0000	99	3936	54	
CHN	61	4	0055	0000	26	66 922	34•492N	31•044E	6	141•41	0000	2468•	0•	0119	99	3426	54	
CHN	61	4	0056	0000	15	66 923	32•598N	31•059E	6	141•21	0000	2140•	589•	0000	99	3549	54	
CHN	61	4	0056	0000	26	66 923	32•598N	31•059E	6	141•21	0000	2140•	0•	0117	99	3342	54	
CHN	61	4	0057	0000	15	66 924	33•111N	32•295E	6	141•32	0000	1928•	620•	0000	99	3969	54	
CHN	61	4	0057	0000	26	66 924	33•111N	32•295E	6	141•32	0000	1928•	0•	0047	99	4339	54	
CHN	61	4	0058	0000	15	66 925	33•304N	32•462E	0	141•32	0000	835•	553•	0000	99	3339	0	MED SEA
CHN	61	4	0058	0000	26	66 925	33•304N	32•462E	6	141•32	0000	835•	0•	0036	99	3300	54	
CHN	61	4	0059	0000	15	66 926	33•521N	33•172E	6	141•33	0000	2328•	593•	0000	99	3426	54	
CHN	61	4	0059	0000	26	66 926	33•521N	33•172E	6	141•33	0000	2328•	0•	0136	99	3426	54	
CHN	61	4	0062	0000	15	66 928	36•015N	31•465E	6	141•61	0000	2506•	297•	0000	99	3329	54	
CHN	61	4	0062	0000	26	66 928	36•015N	31•465E	6	141•61	0000	2506•	0•	0045	99	3339	54	
CHN	61	4	0063	0000	15	66 928	35•420N	32•588E	6	141•52	0000	1250•	610•	0000	99	3379	54	
CHN	61	4	0063	0000	26	66 928	35•420N	32•588E	6	141•52	0000	1250•	0•	0110	99	3329	54	
CHN	61	4	0064	0000	15	66 930	35•560N	34•150E	6	141•54	0000	959•	495•	0000	99	3861	54	
CHN	61	4	0064	0000	26	66 930	35•560N	34•150E	6	141•54	0000	959•	0•	0050	99	3349	54	
CHN	61	4	0065	0000	15	6610 1	35•332N	35•268E	6	141•55	0000	1398•	645•	0000	99	3931	54	
CHN	61	4	0065	0000	26	6610 1	35•332N	35•268E	6	141•55	0000	1398•	0•	0034	99	4429	54	
CHN	61	4	0066	0000	15	6610 2	34•205N	34•410E	6	141•44	0000	2010•	594•	0000	99	3329	54	
CHN	61	4	0066	0000	26	6610 2	34•205N	34•410E	6	141•44	0000	2010•	0•	0040	99	3379	54	
CHN	61	4	0067	0000	15	6610 3	34•100N	33•360E	0	141•43	0000	2188•	600•	0000	99	4332	0	MED SEA
CHN	61	4	0067	0000	26	6610 3	34•100N	33•360E	0	141•43	0000	2188•	119•	0000	99	4332	0	MED SEA
CHN	61	4	0068	0000	15	6610 2	34•527N	34•528E	6	141•44	0068	1618•	819•	0000	99	3450	54	
							MARSDEN SQUARE # 142											
CHN	7	3	0002	0000	15	59 531	36•370N	21•100E	4	142•61	0002	4976•	151•	0000	21	3350	0	
CHN	7	3	0003	0000	15	59 6 1	36•135N	23•230E	4	142•63	0003	1249•	157•	0000	21	3330	0	SC
CHN	7	3	0004	0000	15	59 6 1	36•138N	23•200E	4	142•63	0004	1249•	122•	0000	21	3350	0	SC
CHN	7	4	0005	0000	15	59 6 5	36•118N	23•220E	4	142•63	0005	1180•	71•	0000	21	3350	0	SC

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 142											
CHN	7	4	0006	0000	15	59 6 5	36.125N	23.219E	4	142.63	0006	1194.	135.	0000	21	3330	0	SC
CHN	61	3	0035	0000	15	66 827	36.258N	25.233E	6	142.65	0000	379.	300.	0000	99	9864	54	
CHN	61	3	0037	0000	15	66 828	35.471N	25.150E	6	142.55	0000	1864.	1024.	0000	99	4969	54	AEGEAN SEA
CHN	61	3	0039	0000	15	66 830	34.202N	22.297E	6	142.42	0000	2586.	267.	0000	99	3329	54	
CHN	61	3	0040	0000	15	66 831	33.172N	23.097E	6	142.33	0000	2472.	613.	0000	99	3818	54	
CHN	61	3	0041	0000	15	66 9 1	34.422N	24.341E	6	142.44	0000	2073.	742.	0000	99	3279	54	
CHN	61	3	0042	0000	15	66 9 3	34.145N	25.010E	6	142.10	0000	3546.	558.	0000	99	3866	54	
CHN	61	3	0043	0000	15	66 9 5	32.332N	25.152E	6	142.25	0000	2888.	290.	0000	99	3349	54	
CHN	61	3	0046	0000	15	66 9 7	34.177N	26.122E	6	142.46	0000	3151.	457.	0000	99	3036	54	
CHN	61	3	0050	0000	15	66 913	35.309N	28.118E	6	142.58	0050	2483.	416.	0000	99	3969	54	
CHN	61	4	0051	0000	15	66 917	36.259N	28.470E	6	142.68	0000	2513.	631.	0000	99	3429	54	
CHN	61	4	0051	0000	26	66 917	36.259N	28.470E	6	142.68	0000	2513.	0.	0083	99	3969	54	
CHN	61	4	0052	0000	15	66 918	35.059N	28.365E	6	142.58	0000	2848.	618.	0000	99	3359	54	
CHN	61	4	0053	0000	15	66 919	34.090N	28.518E	6	142.48	0000	2518.	648.	0000	99	3969	54	
CHN	61	4	0053	0000	26	66 919	34.090N	28.518E	6	142.48	0000	2518.	0.	0101	99	3969	54	
CHN	61	4	0054	0000	15	66 921	35.201N	30.070E	6	142.50	0000	2013.	187.	0000	99	3349	54	
CHN	61	4	0054	0000	26	66 921	35.201N	30.070E	6	142.50	0000	2013.	0.	0054	99	3349	54	
							MARSDEN SQUARE # 143											
AII	49	5	A003	0000	15	69 521	34.055N	26.490E	5	143.46	03-1	2637.	100.	0000	0	3329	0	
AII	49	5	B003	0000	26	69 521	33.200N	19.250E	5	143.39	03-2	2788.	100.	0239	0	3339	0	
CHN	7	3	0001	0000	15	59 531	36.550N	19.502E	4	143.69	0001	3677.	144.	0000	21	3730	0	
CHN	7	4	0001	0000	15	59 611	40.160N	12.375E	4	143.02	0001	3529.	595.	0000	21	3730	46	
CHN	7	4	0002	0000	15	59 613	40.020N	12.165E	0	143.02	0002	3610.	874.	0000	21	3960	0	
CHN	7	5	0003	0000	15	59 617	40.080N	12.190E	4	143.02	0003	3612.	792.	0000	21	3260	46	
CHN	7	8	0009	0000	15	59 617	40.100N	12.150E	4	143.02	0009	3405.	3190.	0000	21	3340	0	STETSON CORE
CHN	43	1	0085	0000	13	64 627	38.473N	15.030E	5	143.85	0027	0.	81.	0000	19	4969	0	
CHN	61	2	0025	0000	15	66 812	35.123N	16.311E	6	143.56	0000	1460.	732.	0000	3	3346	54	
CHN	61	2	0029	0000	15	66 816	35.553N	19.360E	6	143.59	0000	3955.	910.	0000	19	3359	54	ALL 1 UNIT
CHN	61	2	0031	0000	15	66 817	33.305N	19.498E	6	143.39	0000	1108.	338.	0000	21	3322	54	
CHN	61	3	0045	0000	15	66 9 7	33.147N	27.519E	6	143.37	0045	3038.	435.	0000	99	4495	54	
							MARSDEN SQUARE # 144											
CHN	21	1	0018	0000	13	61 929	39.310N	5.260E	5	144.95	0018	2777.	154.	0000	21	4860	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 145										
CHN	21	1	0020	0000	13	6110 1	43.210N	8.155E	5	145.38	0020	2001.	0.	0000	0	0000	0	OIN JAR
CHN	61	2	0019	0000	15	66 8 8	36.466N	13.058E	6	145.63	0000	833.	972.	0000	99	3931	54	
CHN	61	2	0019	0000	26	66 8 8	36.466N	13.058E	6	145.63	0000	833.	0.	0104	99	3359	54	
								MARSDEN SQUARE # 147										
CHN	43	1	0102	0000	13	64 8 8	45.300N	27.500W	5	147.57	0028	3012.	252.	0000	16	3964	0	
CHN	43	1	0105	0000	15	64 8 9	44.360N	28.100W	5	147.48	0030	3226.	270.	0000	16	3969	46	
CHN	43	1	0109	0000	13	64 811	42.371N	28.448W	5	147.28	0032	2538.	30.	0000	16	3359	0	
CHN	43	1	0115	0000	13	64 812	42.381N	28.484W	5	147.28	0033	2568.	278.	0000	16	0000	0	
CHN	82	6	0023	0000	15	68 8 5	41.380N	27.200W	8	147.17	0003	2525.	481.	0000	15	3938	54	
CHN	82	6	0023	0000	26	68 8 5	41.380N	27.200W	8	147.17	0003	2525.	0.	0062	15	3329	54	
CHN	82	6	0025	0000	15	68 8 7	42.187N	28.345W	8	147.28	0005	2595.	552.	0000	15	3324	54	
CHN	82	6	0025	0000	26	68 8 7	42.187N	28.345W	8	147.28	0005	2595.	0.	0020	15	3359	54	
CHN	82	6	0027	0000	15	68 8 9	42.060N	28.160W	8	147.28	0007	2538.	458.	0000	15	3328	54	
CHN	82	6	0027	0000	26	68 8 9	42.060N	28.160W	8	147.28	0007	2538.	0.	0075	15	3322	54	
CHN	82	6	0028	0000	15	68 810	42.000N	29.540W	8	147.29	0008	2434.	680.	0000	15	3322	54	
CHN	82	6	0028	0000	26	68 810	42.000N	29.540W	8	147.29	0008	2434.	0.	0065	15	3329	54	
CHN	82	6	0030	0000	15	68 817	40.482N	26.270W	8	147.06	0010	2835.	321.	0000	15	3329	54	
CHN	82	6	0030	0000	15	68 816	41.506N	26.270W	8	147.16	0009	2830.	664.	0000	15	3932	54	
CHN	82	6	0030	0000	26	68 816	41.506N	26.270W	8	147.16	0009	2830.	0.	0064	15	3932	54	
CHN	82	6	0032	0000	15	68 820	43.450N	27.465W	8	147.37	0012	2535.	248.	0000	15	3338	54	
CHN	82	6	0032	0000	26	68 820	43.450N	27.465W	8	147.37	0012	2535.	0.	0079	15	3339	54	
CHN	82	6	0033	0000	15	68 822	42.285N	28.400W	8	147.28	0013	2378.	526.	0000	15	3334	54	
CHN	82	6	0033	0000	26	68 822	42.285N	28.400W	8	147.28	0013	2378.	0.	0077	15	3338	54	
CHN	82	6	0036	0000	26	68 8 0	42.333N	29.185W	8	147.29	0014	3397.	0.	0036	15	3359	56	
CHN	82	6	0041	0000	15	68 826	43.223N	28.139W	8	147.38	0015	2155.	393.	0000	15	3028	56	
CHN	82	6	0041	0000	26	68 826	43.223N	28.139W	8	147.38	0015	2151.	0.	0122	15	3324	56	
CHN	82	6	0042	0000	15	68 826	43.196N	28.046W	8	147.38	0016	2958.	533.	0000	15	3738	56	
CHN	82	6	0044	0000	15	68 831	40.577N	27.115W	8	147.07	0017	2535.	395.	0000	15	3338	56	
CHN	82	6	0044	0000	26	68 831	40.577N	27.115W	8	147.07	0017	2535.	0.	0111	15	3034	56	
CHN	82	8	0045	0000	15	68 831	41.359N	27.270W	0	147.07	0018	2533.	680.	0000	10	3738	0	
CHN	82	8	0049	0000	15	68 9 3	43.293N	29.344W	0	147.39	0000	2630.	387.	0000	0	3322	0	
CHN	82	8	0049	0000	26	68 9 3	43.293N	29.344W	0	147.39	0000	2630.	0.	0045	0	3369	0	
CHN	82	8	0050	0000	15	68 9 4	43.299N	29.520W	0	147.39	0020	3020.	572.	0000	10	3838	0	
CHN	82	8	0050	0000	15	68 9 4	43.299N	29.520W	0	147.39	0020	3020.	0.	0066	10	3029	0	
CHN	82	8	0051	0000	15	68 9 4	43.173N	29.498W	0	147.39	0021	2103.	306.	0000	10	3738	0	
CHN	82	8	0051	0000	26	68 9 4	43.173N	29.498W	0	147.39	0021	2103.	0.	0084	10	3738	0	
CHN	82	8	0054	0000	15	68 9 6	43.500N	27.575W	8	147.37	0022	2575.	688.	0000	15	3038	54	
CHN	82	8	0057	0000	15	68 9 7	43.279N	30.396W	8	147.30	0024	2925.	423.	0000	15	3328	54	
CHN	82	8	0058	0000	15	68 9 7	43.295N	30.130W	0	147.30	0025	3071.	548.	0000	10	3738	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 148											
CHN	13	1	0003	0000	15	60 718	47•250N	37•330W	0	148•77	0003	2716•	847•	0000	11	3864	0	
CHN	82	6	0024	0000	26	68 8 6	41•425N	32•510W	8	148•12	0004	3427•	0•	0077	15	3322	54	
CHN	82	6	0024	0000	15	68 8 6	41•425N	32•510W	8	148•12	0004	3427•	669•	0000	15	3329	54	
CHN	82	6	0026	0000	15	68 8 8	42•100N	31•380W	8	148•21	0006	3153•	394•	0000	15	3328	54	
CHN	82	6	0026	0000	26	68 8 8	42•100N	31•380W	8	148•21	0006	3132•	0•	0086	15	3325	54	
CHN	82	6	0031	0000	15	68 819	42•230N	31•475W	8	148•21	0011	3209•	541•	0000	15	3338	54	
CHN	82	6	0031	0000	26	68 819	42•230N	31•475W	8	148•21	0011	3209•	0•	0086	15	3868	54	
CHN	82	8	0056	0000	15	68 9 7	43•351N	31•375W	8	148•31	0023	3406•	621•	0000	15	3338	54	
CHN	82	8	0059	0000	15	68 9 8	43•201N	30•000W	8	148•30	0026	2760•	495•	0000	15	0329	54	
							MARSDEN SQUARE # 151											
AII	33	1	0001	0000	15	67 728	43•010N	70•260W	5	151•30	0001	105•	468•	0000	2	4839	0	
KNR	27	1	0001	0000	16	72 6 8	42•249N	67•310W	15	151•27	0001	80•	1965•	0000	2	0000	44	
							MARSDEN SQUARE # 152											
AII	72	1	0001	0000	15	721021	40•077N	70•344W	5	152•47	0001	117•	468•	0000	2	8855	0	
AII	72	1	0001	0000	26	721021	40•077N	70•344W	5	152•47	0001	117•	0•	0037	2	2255	0	
AII	72	1	0010	0000	15	721022	40•044N	70•595W	5	152•00	0009	214•	364•	0000	4	8855	0	
AII	72	1	0012	0000	15	721023	40•013N	70•444W	9	152•00	0010	214•	375•	0000	4	2838	0	
KNR	10	1	0001	0000	16	70 9 9	42•246N	70•343W	3	152•20	0001	77•	2174•	0000	2	0010	0	
							MARSDEN SQUARE # 177											
AII	49	1	1433	0000	15	69 324	44•050N	35•000E	5	177•45	004A	2225•	493•	0000	21	4311	0	
AII	49	3	1431	0000	15	69 322	42•140N	33•040E	5	177•23	002A	2136•	491•	0000	21	3226	0	
AII	49	3	1432	0000	13	69 323	43•006N	34•045E	5	177•34	0003	2248•	124•	0000	21	3419	0	
AII	49	3	1434	0000	15	69 325	44•200N	36•000E	5	177•46	005A	1466•	140•	0000	21	2319	0	
AII	49	3	1435	0000	13	69 325	44•260N	36•130E	5	177•46	0006	1033•	160•	0000	21	2329	0	
AII	49	3	1436	0000	15	69 326	43•240N	36•360E	5	177•36	007A	2158•	535•	0000	21	2431	0	
AII	49	3	1436	0000	26	69 326	43•240N	36•360E	5	177•36	007B	2158•	0•	0119	21	4349	0	
AII	49	3	1437	0000	13	69 327	41•412N	38•283E	5	177•18	0008	973•	62•	0000	21	3219	0	
AII	49	3	1438	0000	13	69 328	41•585N	35•410E	5	177•15	0009	284•	145•	0000	21	3316	0	
AII	49	3	1439	0000	15	69 329	42•219N	35•295E	5	177•25	010A	1943•	700•	0000	21	2815	0	
AII	49	3	1440	0000	13	69 329	42•122N	34•213E	5	177•24	011A	264•	131•	0000	21	4319	0	
AII	49	3	1440	0000	15	69 329	42•127N	34•213E	5	177•24	011B	207•	740•	0000	21	3125	0	
AII	49	3	1440	0000	26	69 329	42•127N	34•213E	5	177•24	011C	207•	128•	0000	21	0059	0	
AII	49	3	1442	0000	15	69 331	44•443N	31•572E	5	177•41	012A	420•	278•	0000	21	4839	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 177											
AII	49	3	1442	0000	26	69 331	44.443N	31.572E	5	177.41	012B	420.	132.	0000	21	4326	0	
AII	49	3	1442	0000	13	69 331	44.359N	31.540E	5	177.41	012C	549.	127.	0000	21	3419	0	
AII	49	3	1443	0000	15	69 331	44.353N	31.553E	5	177.41	013A	1057.	766.	0000	21	2416	0	
AII	49	3	1443	0000	13	69 331	44.353N	31.553E	5	177.41	013B	1057.	198.	0000	21	3429	0	
AII	49	3	1444	0000	15	69 4 1	43.480N	31.453E	5	177.31	014A	1597.	511.	0000	21	4216	0	
AII	49	3	1445	0000	15	69 4 2	43.160N	31.180E	5	177.31	015A	1915.	357.	0000	21	3216	0	
AII	49	3	1445	0000	26	69 4 2	43.160N	31.180E	5	177.31	015B	1915.	163.	0000	21	3419	0	
AII	49	3	1446	0000	15	69 4 2	42.115N	31.218E	5	177.21	016A	2147.	772.	0000	21	4831	0	
AII	49	3	1446	0000	26	69 4 2	42.115N	31.218E	5	177.21	016B	2147.	117.	0000	21	0239	0	
AII	49	3	1447	0000	15	69 4 3	41.230N	31.036E	5	177.11	017A	1256.	419.	0000	21	3219	0	
AII	49	3	1447	0000	26	69 4 3	41.230N	31.036E	5	177.11	017B	1256.	0.	0091	21	4669	0	
AII	49	3	1450	0000	13	69 4 4	43.394N	30.094E	5	177.30	0018	563.	115.	0000	21	3416	0	
AII	49	3	1462	0000	13	69 414	43.045N	32.595E	5	177.32	024B	2179.	106.	0000	21	4319	0	
AII	49	4	1462	0000	13	69 414	43.045N	32.595E	5	177.32	024B	2179.	106.	0000	21	4319	0	
AII	49	4	1462	0000	20	69 414	43.028N	33.021E	5	177.33	024A	2201.	0.	0.9K	21	0000	0	
AII	49	4	1462	0000	20	69 414	43.028N	33.021E	6	177.33	024A	2186.	296.	0000	21	0000	0	UNSPLIT
AII	49	4	1464	0000	15	69 415	43.019N	35.287E	5	177.35	025B	2173.	211.	0000	21	3449	0	
AII	49	4	1464	0000	13	69 415	26.019N	35.287E	5	177.35	025C	2173.	107.	0000	21	2319	0	
AII	49	4	1464	0000	13	69 415	43.030N	35.310E	5	177.35	025D	2175.	125.	0000	21	2319	0	
AII	49	4	1464	0000	20	69 415	43.010N	35.280E	5	177.35	025A	2194.	0.	003K	21	0000	0	
AII	49	4	1464	0000	20	69 415	43.010N	35.280E	6	177.35	025A	2179.	400.	0000	21	0000	0	UNSPLIT
AII	49	4	1466	0000	15	69 417	43.018N	38.305E	5	177.38	026A	2104.	129.	0000	21	8859	0	
AII	49	4	1466	0000	26	69 417	43.018N	38.305E	5	177.38	026B	2104.	128.	0000	21	3419	0	
AII	49	4	1466	0000	20	69 417	43.071N	38.278E	6	177.38	026C	2106.	350.	0000	21	0000	0	UNSPLIT
AII	49	4	1468	0000	20	69 418	42.009N	40.262E	5	177.20	027A	1918.	0.	003K	21	0000	0	
AII	49	4	1470	0000	13	69 419	42.029N	41.181E	5	177.21	029A	906.	218.	0000	21	4316	0	
AII	49	4	1472	0000	20	69 420	43.090N	39.545E	5	177.39	030A	1541.	273.	0000	21	0000	0	
AII	49	4	1473	0000	15	69 420	43.520N	38.462E	5	177.38	031A	1550.	752.	0000	11	2259	0	
AII	49	4	1474	0000	15	69 421	42.230N	37.366E	5	177.27	032A	2114.	1152.	0000	21	2339	0	
AII	49	4	1474	0000	26	69 421	42.230N	37.366E	5	177.27	032B	2114.	192.	0000	21	2339	0	
AII	49	4	1474	0000	20	69 421	42.233N	37.372E	6	177.27	030C	2117.	600.	0000	21	3839	0	
AII	49	4	1476	0000	13	69 423	41.377N	37.390E	5	177.17	033A	1741.	220.	0000	21	2319	0	
AII	49	4	1476	0000	20	69 423	41.350N	37.410E	5	177.17	033B	1726.	0.	002K	21	0000	0	
AII	49	4	1477	0000	15	69 423	41.340N	39.032E	5	177.19	034B	1966.	530.	0000	21	8436	0	
AII	49	4	1478	0000	15	69 425	42.080N	39.145E	5	177.29	035A	2026.	384.	0000	21	8249	0	
AII	49	4	1478	0000	26	69 425	42.080N	39.145E	5	177.29	035B	2026.	89.	0000	21	2349	0	
AII	49	4	1479	0000	15	69 425	42.176N	38.099)	5	177.28	036B	2099.	426.	0000	21	2869	0	
AII	49	4	1479	0000	26	69 425	42.176N	38.098E	5	177.28	036A	2099.	75.	0000	21	2319	0	
AII	49	4	1480	0000	15	69 426	43.065N	38.257E	5	177.38	037A	2108.	428.	0000	21	2311	0	
AII	49	4	1480	0000	26	69 426	43.065N	38.257E	5	177.38	037B	2108.	0.	0118	21	3419	0	
AII	49	4	1481	0000	15	69 427	44.022N	37.582E	5	177.47	038A	2037.	508.	0000	21	2319	0	
AII	49	4	1481	0000	26	69 427	44.022N	37.582E	5	177.47	038B	2037.	0.	0191	21	2319	0	
AII	49	4	1484	0000	20	69 430	44.421N	36.536E	6	177.33	039A	340.	400.	0000	21	3459	0	
AII	49	4	1484	0000	13	69 430	44.416N	36.549E	5	177.46	039B	386.	201.	0000	11	2319	0	
AII	49	4	1485	0000	20	69 430	44.249N	35.152E	5	177.45	040B	1704.	7182.	0000	11	2219	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 177										
AII	49	4	1486	0000	15	69 430	43.594N	33.446E	5	177.33	041A	1998.	825.	0000	21	2319	0	
AII	49	4	1486	0000	26	69 430	43.594N	33.446E	5	177.33	041B	1998.	80.	0000	21	2319	0	
AII	49	4	1486	0000	13	69 430	43.594N	33.446E	5	177.33	041C	1998.	294.	0000	21	2316	0	
								MARSDEN SQUARE # 178										
AII	49	3	1430	0000	13	69 321	41.257N	29.256E	5	178.19	0001	663.	119.	0000	21	2079	0	
AII	49	3	1451	0000	13	69 4 5	43.342N	29.315E	5	178.39	0019	460.	72.	0000	21	3419	0	
AII	49	3	1452	0000	15	69 4 5	42.466N	28.359E	5	178.28	0020	728.	848.	0000	21	4329	0	
AII	49	3	1453	0000	13	69 4 6	41.505N	28.412E	5	178.18	0021	255.	53.	0000	21	0819	0	
AII	49	3	1461	0000	15	69 4 6	41.409N	29.454E	5	178.19	023B	1788.	890.	0000	21	0811	0	
								MARSDEN SQUARE # 180										
CHN	7	7	0006	0000	15	59 711	41.350N	4.520E	4	180.14	0006	2499.	764.	0000	21	3230	0	
CHN	21	1	0019	0000	13	61 930	42.160N	7.105E	5	180.27	0019	2728.	191.	0000	21	3860	0	
CHN	21	1	0020	0000	15	6110 1	43.210N	8.155E	5	180.38	0020	2043.	0.	0000	21	0000	0	
								MARSDEN SQUARE # 183										
CHN	13	1	0004	0000	15	60 723	53.530N	24.120W	0	183.34	0004	3375.	195.	0000	16	3562	0	
								MARSDEN SQUARE # 215										
AII	32	1	0004	0000	13	67 6 6	55.486N	16.217E	3	215.56	0002	49.	39.	0000	2	2849	0	
AII	32	1	0006	0000	13	67 6 6	55.435N	16.380E	3	215.56	0004	51.	139.	0000	2	1819	0	
AII	32	1	0007	0000	13	67 6 6	55.313N	16.380E	3	215.56	0005	42.	68.	0000	2	2234	0	
AII	32	1	0008	0000	13	67 6 6	55.380N	16.250E	3	215.56	0006	60.	202.	0000	2	1819	0	
AII	32	1	0011	0000	13	67 6 7	55.440N	15.556E	3	215.55	0007	60.	75.	0000	2	2259	0	
AII	32	1	0012	0000	13	67 6 7	55.431N	16.373E	3	215.56	0008	49.	282.	0000	2	1814	0	
AII	32	1	0013	0000	13	67 6 7	55.372N	16.253E	3	215.56	0009	49.	296.	0000	2	1814	0	
AII	32	1	0017	0000	13	67 613	55.284N	18.431E	3	215.58	0010	79.	306.	0000	2	1229	0	
AII	32	1	0018	0000	13	67 613	55.215N	18.542E	3	215.58	0011	86.	124.	0000	2	2249	0	
AII	32	2	0020	0000	13	67 613	55.219N	18.042E	3	215.58	0012	82.	151.	0000	2	2864	0	
AII	32	2	0021	0000	13	67 613	55.286N	18.173E	3	215.58	0013	82.	214.	0000	2	2814	0	
AII	32	2	0028	0000	13	67 614	55.252N	18.048E	3	215.58	0014	88.	182.	0000	2	2814	0	
AII	32	2	0029	0000	13	67 616	55.330N	18.281E	3	215.58	0015	86.	43.	0000	2	2869	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIOGRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 215										
AII	32	2	0032	0000	13	67 617	55.082N	16.040E	3	215.56	0016	84.	209.	0000	2	1625	0	
AII	32	2	0037	0000	13	67 617	55.210N	16.042E	3	215.56	0017	86.	393.	0000	2	1819	0	
AII	32	2	0038	0000	13	67 617	55.291N	15.540E	3	215.55	0018	84.	341.	0000	2	2814	0	
								MARSDEN SQUARE # 300										
CHN	99	3	0029	0000	15	70 528	8.400S	9.250W	1	300.89	0020	3733.	1129.	0000	15	3329	54	MAR
CHN	99	3	0030	0000	15	70 529	8.378S	8.058W	9	300.88	0021	4075.	926.	0000	15	3329	54	MAR
CHN	99	3	0031	0000	15	70 529	8.428S	6.255W	1	300.86	0022	4660.	509.	0000	15	1339	54	MAR
CHN	99	3	0032	0000	15	70 530	8.430S	4.587W	1	300.84	0023	4404.	837.	0000	15	3738	54	MAR
CHN	99	3	0033	0000	15	70 530	8.418S	3.325W	1	300.83	0024	4414.	1066.	0000	10	3932	54	
CHN	99	3	0034	0000	15	70 531	8.442S	1.525W	9	300.81	0025	4896.	1076.	0000	15	3532	54	MAR
CHN	99	3	0034	0000	26	70 531	8.442S	1.525W	9	300.81	0025	4896.	0.	0176	15	0549	54	MAR
CHN	99	3	0036	0000	15	70 6 1	8.445S	.116W	9	300.80	0026	4914.	1190.	0000	15	3022	54	
CHN	99	3	0036	0000	26	70 6 1	8.445S	.116W	9	300.80	0026	4914.	0.	0191	15	3032	54	
								MARSDEN SQUARE # 301										
CHN	99	3	0012	0000	13	70 519	.090S	19.079W	9	301.09	0001	4195.	31.	0000	19	3339	0	
CHN	99	3	0014	0000	15	70 520	2.349S	19.052W	1	301.29	0011	5457.	1097.	0000	19	1432	54	
CHN	99	3	0014	0000	26	70 520	2.349S	19.052W	1	301.29	0011	5457.	0.	0185	19	3729	54	
CHN	99	3	0015	0000	15	70 521	4.360S	19.030W	1	301.49	0012	4353.	1095.	0000	15	3322	54	
CHN	99	3	0015	0000	26	70 521	4.360S	19.030W	1	301.49	0012	4353.	0.	0188	15	3359	54	
CHN	99	3	0016	0000	15	70 522	6.391S	18.553W	9	301.68	0013	4762.	1184.	0000	15	3022	54	MAR
CHN	99	3	0016	0000	26	70 522	6.391S	18.553W	9	301.68	0013	4762.	0.	0186	15	3342	54	MAR
CHN	99	3	0019	0000	15	70 523	8.150S	17.400W	1	301.87	0014	4029.	1037.	0000	15	3731	54	MAR
CHN	99	3	0019	0000	26	70 523	8.150S	17.400W	1	301.87	0014	4029.	0.	0084	15	3329	54	MAR
CHN	99	3	0021	0000	15	70 524	8.103S	15.269W	9	301.85	0015	3652.	911.	0000	15	3329	54	MAR
CHN	99	3	0021	0000	26	70 524	8.103S	15.269W	9	301.85	0015	3652.	0.	0081	15	3359	54	MAR
CHN	99	3	0023	0000	15	70 525	6.467S	12.470W	1	301.62	0016	3286.	858.	0000	15	3729	54	MAR
CHN	99	3	0024	0000	15	70 526	7.201S	14.050W	4	301.74	0017	3722.	829.	0000	19	3721	54	ASCENSION
CHN	99	3	0026	0000	15	70 527	8.230S	13.036W	4	301.83	0018	3116.	856.	0000	14	3729	54	
CHN	99	3	0028	0000	15	70 528	8.397S	10.580W	9	301.80	0019	3462.	796.	0000	15	3729	54	MAR
								MARSDEN SQUARE # 308										
AII	54	2	0003	0000	15	69 11 5	5.374S	87.213W	9	308.47	0002	3735.	906.	0000	12	3562	0	
AII	54	2	0003	0000	26	69 11 5	5.374S	87.213W	9	308.47	0002	3735.	0.	0089	12	3562	0	
AII	54	2	0053	0000	15	69 11 29	2.450S	86.460W	0	308.26	0024	2805.	818.	0000	99	3568	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 308											
AII	54	2	0053	0000	26	691129	2.450S	86.460W	0	308.26	0024	2805.	0.	0158	99	3562	0	
AII	54	2	0055	0000	15	691130	4.162S	85.538W	9	308.45	0025	3225.	934.	0000	99	3568	0	
AII	54	2	0055	0000	26	691130	4.162S	85.538W	9	308.45	0025	3225.	0.	0134	99	3562	0	
							MARSDEN SQUARE # 309											
AII	54	2	0005	0000	15	6911 6	7.246S	89.101W	9	309.79	0003	4165.	122.	0000	12	6969	0	
AII	54	2	0005	0000	26	6911 6	7.246S	89.101W	9	309.79	0003	4165.	0.	0140	12	3569	0	
AII	54	2	0007	0000	15	6911 7	9.590S	91.130W	1	309.01	0004	4115.	428.	0000	12	3329	0	
AII	54	2	0007	0000	26	6911 7	9.590S	91.130W	1	309.01	0004	4115.	0.	0085	12	3539	0	
AII	54	2	0009	0000	15	6911 8	9.313S	94.126W	9	309.94	0005	3960.	771.	0000	12	3562	0	
AII	54	2	0009	0000	26	6911 8	9.313S	94.126W	9	309.94	0005	3960.	0.	0091	12	3562	0	
AII	54	2	0011	0000	15	6911 9	9.190S	97.362W	9	309.97	0006	4287.	881.	0000	12	0429	0	
AII	54	2	0011	0000	26	6911 9	9.190S	97.362W	9	309.97	0006	4287.	0.	0140	12	3562	0	
AII	54	2	0012	0000	15	691110	8.490S	99.300W	9	309.89	0007	4375.	799.	0000	12	3032	0	
AII	54	2	0012	0000	26	691110	8.490S	99.300W	9	309.89	0007	4375.	0.	0130	12	5369	0	
AII	54	2	0042	0000	15	691122	5.598S	98.298W	9	309.58	0019	3659.	961.	0000	12	3569	0	
AII	54	2	0042	0000	26	691122	5.598S	98.298W	9	309.58	0019	3659.	0.	0127	12	3569	0	
AII	54	2	0045	0000	15	691123	6.157S	96.325W	9	309.69	0020	3785.	966.	0000	12	0322	0	
AII	54	2	0045	0000	26	691123	6.157S	96.325W	9	309.69	0020	3785.	0.	0145	12	0322	0	
AII	54	2	0047	0000	15	691124	6.469S	93.405W	9	309.63	0021	3985.	832.	0000	12	3562	0	
AII	54	2	0047	0000	26	691124	6.469S	93.405W	9	309.63	0021	3985.	0.	0155	12	3562	0	
AII	54	2	0050	0000	15	691125	5.325S	91.243W	9	309.51	0022	4075.	1020.	0000	99	3568	0	
AII	54	2	0050	0000	26	691125	5.325S	91.243W	9	309.51	0022	4075.	0.	0160	99	3562	0	
AII	54	2	0052	0000	15	691126	2.235S	90.520W	9	309.20	0023	3230.	1046.	0000	99	3569	0	
AII	54	2	0052	0000	26	691126	2.235S	90.520W	9	309.20	0023	3230.	0.	0067	99	3569	0	
CHN	100	11	0140	0000	15	711022	10.050S	99.402W	1	309.09	0094	4314.	739.	0000	0	1422	54	
CHN	100	11	0140	0000	26	711022	10.050S	99.402W	1	309.09	0094	4314.	0.	0154	0	1152	54	
CHN	100	11	0141	0000	15	711023	8.344S	98.177W	1	309.88	0095	4038.	627.	0000	99	0322	54	
CHN	100	11	0141	0000	26	711023	8.344S	98.177W	1	309.88	0095	4038.	0.	0135	99	3562	54	
CHN	100	11	0142	0000	15	711023	7.518S	100.412W	1	309.70	0096	4201.	833.	0000	99	4329	54	SAME AS 141
CHN	100	11	0142	0000	26	711023	7.518S	100.412W	1	309.70	0096	4201.	0.	0067	99	1039	54	SAME AS 141
							MARSDEN SQUARE # 310											
AII	54	2	0014	0000	15	691111	8.262S	102.120W	9	310.82	0008	3984.	709.	0000	12	4339	0	
AII	54	2	0014	0000	26	691111	8.262S	102.120W	9	310.82	0008	3984.	0.	0129	12	3339	0	
AII	54	2	0016	0000	15	691112	8.074S	104.188W	9	310.84	0009	3560.	230.	0000	12	3324	0	
AII	54	2	0016	0000	26	691112	8.074S	104.188W	9	310.84	0009	3560.	0.	0140	12	3359	0	
AII	54	2	0018	0000	15	691112	7.585S	106.325W	9	310.76	0010	3405.	815.	0000	12	3562	0	
AII	54	2	0018	0000	26	691112	7.585S	106.325W	9	310.76	0010	3405.	0.	0143	12	3569	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 310										
AII	54	2	0020	0000	13	691113	7.260S	108.150W	9	310.78	0001	3170.	107.	0000	12	3329	0	
AII	54	2	0022	0000	15	691114	5.197S	108.483W	9	310.58	0011	3600.	606.	0000	12	0329	0	
AII	54	2	0022	0000	26	691114	5.197S	108.483W	9	310.58	0011	3600.	0.	0135	12	0329	0	
AII	54	2	0024	0000	15	691115	5.259S	108.151W	9	310.58	0012	3660.	735.	0000	12	0322	0	
AII	54	2	0024	0000	26	691115	5.259S	108.151W	9	310.58	0012	3660.	0.	0164	12	0322	0	
AII	54	2	0025	0000	15	691116	5.441S	107.272W	9	310.57	0013	3225.	591.	0000	12	0322	0	
AII	54	2	0025	0000	26	691116	5.441S	107.272W	9	310.57	0013	3255.	0.	0162	12	0322	0	
AII	54	2	0029	0000	15	691117	5.439S	107.341W	9	310.57	0014	3190.	858.	0000	12	0322	0	
AII	54	2	0029	0000	26	691117	5.439S	107.341W	9	310.57	0014	3190.	0.	0090	12	3562	0	
AII	54	2	0031	0000	26	691118	6.242S	105.473W	9	310.65	0015	3497.	0.	0070	12	0322	0	
AII	54	2	0031	0000	15	691118	6.242S	105.473W	9	310.65	0015	3497.	741.	0000	12	0322	0	
AII	54	2	0035	0000	15	691119	6.190S	105.397W	9	310.65	0016	3341.	916.	0000	12	0322	0	
AII	54	2	0035	0000	26	691119	6.190S	105.397W	9	310.65	0016	3341.	0.	0144	12	0329	0	
AII	54	2	0037	0000	15	691120	5.306S	102.432W	1	310.52	0017	3835.	837.	0000	12	0322	0	
AII	54	2	0037	0000	26	691120	5.306S	102.432W	1	310.52	0017	3835.	0.	0170	12	3332	0	
AII	54	2	0039	0000	15	691121	5.383S	101.248W	9	310.51	0018	3755.	814.	0000	12	3562	0	
AII	54	2	0039	0000	26	691121	5.383S	101.248W	9	310.51	0018	3755.	0.	0139	12	3569	0	
CHN	100	11	0139	0000	26	711022	10.228S	101.008W	1	310.01	0093	4274.	0.	0148	0	3422	54	SAME AS 138
CHN	100	11	0143	0000	15	711024	7.448S	101.246W	1	310.71	0097	4649.	862.	0000	99	3538	54	SAME AS 141
CHN	100	11	0143	0000	26	711024	7.448S	101.246W	1	310.71	0097	4649.	0.	0110	10	6669	0	
CHN	100	11	0144	0000	15	711024	7.378S	101.554W	1	310.71	0098	3743.	678.	0000	99	3022	54	
CHN	100	11	0144	0000	26	711024	7.378S	101.554W	1	310.71	0098	3743.	0.	0054	99	0339	54	
CHN	100	11	0145	0000	15	711024	7.178S	102.582W	9	310.72	0099	4400.	748.	0000	99	1032	54	SAME AS 144
CHN	100	11	0145	0000	26	711024	7.178S	102.582W	9	310.72	0099	4400.	0.	0102	99	5362	54	SAME AS 144
CHN	100	11	0146	0000	15	711025	5.536S	102.388W	1	310.52	0100	4440.	809.	0000	99	5362	54	SAME AS 144
CHN	100	11	0146	0000	26	711025	5.536S	102.388W	1	310.52	0100	4440.	0.	0108	99	0000	54	SAME AS 144
								MARSDEN SQUARE # 316										
CHN	100	10	0106	0000	15	71 910	8.037S	168.341W	1	316.88	0072	5117.	0.	0000	99	0000	0	IN JAR
CHN	100	10	0107	0000	15	71 911	8.030S	168.345W	1	316.88	0073	5159.	34.	0000	99	8853	0	
CHN	100	10	0109	0000	15	71 911	8.282S	168.438W	1	316.88	0074	4626.	462.	0000	99	1023	54	
CHN	100	10	0109	0000	26	71 911	8.282S	168.438W	1	316.88	0074	4626.	0.	0120	99	1023	54	
CHN	100	10	0110	0000	15	71 912	8.371S	168.357W	1	316.88	0075	4576.	255.	0000	99	3123	54	
CHN	100	10	0110	0000	26	71 912	8.371S	168.357W	1	316.88	0075	4576.	0.	0121	99	3129	54	
CHN	100	10	0111	0000	15	71 912	8.405S	168.551W	1	316.88	0076	5026.	549.	0000	99	1323	54	SAMOAN PAS.
CHN	100	10	0111	0000	26	71 912	8.405S	168.551W	1	316.88	0076	5026.	0.	0112	99	1323	54	SAMOAN PAS.
CHN	100	10	0113	0000	15	71 912	8.222S	168.517W	1	316.88	0077	5162.	354.	0000	99	1323	54	
CHN	100	10	0113	0000	26	71 912	8.222S	168.517W	1	316.88	0077	5162.	0.	0085	99	1323	54	
CHN	100	10	0114	0000	26	71 912	8.262S	168.000W	1	316.88	0078	4550.	0.	0132	99	3423	54	
CHN	100	10	0116	0000	15	71 913	8.203S	168.460W	1	316.88	0079	5123.	1118.	0000	99	1153	0	
CHN	100	10	0116	0000	26	71 913	8.203S	168.460W	1	316.88	0079	5123.	0.	0150	99	1653	0	
CHN	100	10	0117	0000	15	71 913	8.188S	168.323W	1	316.88	0080	4732.	855.	0000	99	1323	54	SAMOAN PAS.

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 316										
CHN	100	10	0117	0000	26	71 913	8.188S	168.323W	1	316.88	0080	4732.	0.	0117	99	1323	54	SAMOAN PAS.
CHN	100	10	0118	0000	15	71 914	8.152S	168.398W	0	316.88	0081	5007.	817.	0000	99	1123	0	SAMOAN PASS
CHN	100	10	0118	0000	26	71 914	8.152S	168.398W	1	316.88	0081	5007.	0.	0000	99	1433	0	
CHN	100	10	0123	0000	14	71 916	8.160S	168.269W	1	316.88	0083	5768.	84.	0000	99	3359	0	
CHN	100	10	0124	0000	15	71 916	7.190S	168.216W	1	316.78	0082	5742.	1606.	0000	99	3631	54	
CHN	100	10	0124	0000	26	71 916	7.190S	168.216W	1	316.78	0082	5742.	0.	0084	99	1159	54	
CHN	100	10	0126	0000	15	71 916	7.258S	168.320W	0	316.78	0084	5508.	659.	0000	99	1163	0	
CHN	100	10	0126	0000	26	71 916	7.258S	168.320W	0	316.78	0084	5508.	0.	0074	99	1663	0	
CHN	100	10	0127	0000	15	71 917	7.212S	168.312W	0	316.78	0085	5457.	743.	0000	0	1139	0	
CHN	100	10	0128	0000	15	71 917	7.235S	168.413W	1	316.77	0086	5495.	0.	0000	99	0000	0	IN JAR
CHN	100	10	0129	0000	26	71 918	7.363S	167.570W	1	316.78	0087	4430.	0.	0144	10	3469	0	
CHN	100	10	0129	0000	15	71 918	7.363S	167.570W	1	316.77	0087	4430.	712.	0000	99	3723	54	
CHN	100	10	0131	0000	15	71 918	7.367S	168.106W	9	316.78	0088	5289.	1958.	0000	99	6339	54	
CHN	100	10	0131	0000	26	71 918	7.367S	168.106W	9	316.78	0088	5289.	0.	0135	99	1529	54	
CHN	100	10	0132	0000	15	71 918	7.272S	168.067W	0	316.78	0089	5276.	806.	0000	0	1663	0	
CHN	100	10	0132	0000	26	71 918	7.272S	168.067W	0	316.78	0089	5276.	0.	0154	0	1163	0	
								MARSDEN SQUARE # 319										
CHN	100	10	0114	0000	15	71 912	8.262S	168.000W	1	319.88	0078	4550.	521.	0000	99	3423	54	
								MARSDEN SQUARE # 328										
AII	15	15	0769	0000	13	65 7 6	31.580S	70.420E	9	328.30	0769	5141.	123.	0000	13	0053	0	
								MARSDEN SQUARE # 329										
CHN	43	1	0068	0000	15	64 528	1.025S	61.120E	5	329.11	0022	4565.	306.	0000	15	3449	0	
								MARSDEN SQUARE # 330										
CHN	43	1	0007	0000	15	64 4 7	5.520N	53.510E	5	330.53	0001	4944.	582.	0000	99	3469	0	
CHN	43	1	0012	0000	13	64 4 9	1.380S	53.200E	5	330.13	0006	4787.	305.	0000	99	3569	0	
CHN	43	1	0015	0000	13	64 411	2.550S	55.430E	5	330.25	0008	3697.	301.	0000	99	3359	0	
CHN	43	1	0053	0000	13	64 517	7.164S	60.320E	5	330.70	0018	3791.	114.	0000	15	3569	0	
CHN	100	4	0048	0000	15	71 420	.145S	56.035E	1	330.06	0036	4576.	866.	0000	0	0731	54	
CHN	100	4	0048	0000	26	71 420	.145S	56.035E	1	330.06	0036	4576.	0.	0083	0	3029	54	

********** STATION DATA RETRIEVAL **********
********** DATE: 12:36 MAY 16,'75 **********

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 331											
CHN	99	8	0058	0000	15	701125	3.324S	42.283E	9	331.32	0039	3467.	0.	0133	99	3329	54	
CHN	99	8	0059	0000	15	701126	3.240S	45.005E	9	331.35	0040	4444.	840.	0000	99	3569	54	
CHN	99	8	0059	0000	26	701126	3.240S	45.005E	9	331.35	0040	4444.	0.	0178	99	3569	54	
CHN	99	8	0060	0000	15	701128	3.306S	47.004E	9	331.37	0041	4832.	811.	0000	21	4831	54	
CHN	99	8	0060	0000	26	701128	3.306S	47.004E	9	331.37	0041	4832.	0.	0176	21	3039	54	
CHN	99	8	0061	0000	15	701129	3.266S	49.492E	9	331.39	0042	4890.	996.	0000	21	3831	54	
CHN	99	8	0061	0000	26	701129	3.266S	49.492E	9	331.39	0042	4890.	0.	0188	21	3569	54	
CHN	99	8	0062	0000	15	7012 1	6.464S	48.418E	9	331.68	0043	4425.	959.	0000	21	3732	54	
CHN	99	8	0062	0000	26	7012 1	6.464S	48.418E	9	331.68	0043	4425.	0.	0157	21	1439	54	
CHN	99	8	0063	0000	15	7012 2	10.530S	47.377E	9	331.07	0044	4005.	858.	0000	21	3839	54	
CHN	99	8	0063	0000	26	7012 2	10.530S	47.377E	9	331.07	0044	4005.	0.	0047	21	3359	54	
							MARSDEN SQUARE # 332											
ZZZ	70	0	0001	0000	15	70 4 3	6.005S	29.309E	4	332.61	0001	0.	120.	0000	22	6626	0	TANGANYIKA
ZZZ	70	0	0004	0000	15	70 4 3	7.180S	30.110E	0	332.70	0004	717.	33.	0000	22	8240	0	TANGANYIKA
							MARSDEN SQUARE # 333											
ZZZ	70	0	0006	0000	15	70 4 6	6.510S	29.580E	0	333.69	0006	245.	165.	0000	22	1530	0	TANGANYIKA
ZZZ	70	0	0009	0000	15	70 4 7	6.590S	29.510E	0	333.69	0009	285.	66.	0000	22	5211	0	TANGANYIKA
ZZZ	70	0	0010	0000	15	70 4 7	6.270S	29.330E	0	333.69	0010	114.	122.	0000	22	5220	0	TANGANYIKA
ZZZ	70	0	0011	0000	15	70 4 8	6.230S	29.350E	0	333.69	0011	201.	123.	0000	22	1519	0	TANGANYIKA
ZZZ	70	0	0014	0000	15	70 410	5.350S	29.210E	0	333.69	0014	29.	44.	0000	22	1229	0	TANGANYIKA
ZZZ	70	0	0015	0000	15	70 410	5.330S	29.280E	0	333.69	0015	633.	229.	0000	22	6519	0	TANGANYIKA
ZZZ	70	0	0018	0000	15	70 411	5.450S	29.250E	0	333.59	0018	64.	141.	0000	22	6519	0	TANGANYIKA
ZZZ	70	0	0019	0000	15	70 411	5.560S	29.320E	0	333.59	0019	361.	200.	0000	22	6819	0	TANGANYIKA
ZZZ	71	0	0001	0000	15	71 3 0	2.090S	28.570E	0	333.28	0001	210.	68.	0000	22	5519	0	LAKE KIVU 1
ZZZ	71	0	0004	0000	13	71 3 0	1.510S	29.080E	0	333.19	0002	420.	74.	0000	22	9469	0	LAKE KIVU 1
ZZZ	71	0	0005	0000	13	71 3 0	1.530S	29.050E	0	333.00	0003	360.	54.	0000	22	5516	0	LAKE KIVU 1
ZZZ	71	0	0007	0000	13	71 3 6	1.596S	29.013E	0	333.19	0004	248.	90.	0000	22	5529	0	LAKE KIVU 1
ZZZ	71	0	0009	0000	15	71 3 9	2.140S	29.070E	0	333.29	0006	310.	400.	0000	22	5846	0	LAKE KIVU 1
ZZZ	71	0	0010	0000	15	71 310	1.458S	29.102E	0	333.19	0007	473.	350.	0000	22	5516	0	LAKE KIVU 1
ZZZ	71	0	0011	0000	15	71 310	1.470S	29.100E	0	333.19	0008	450.	365.	0000	22	5826	0	LAKE KIVU 1
ZZZ	71	0	0013	0000	15	71 311	1.489S	29.109E	0	333.19	0009	468.	275.	0000	22	5246	0	LAKE KIVU 1
ZZZ	71	0	0014	0000	15	71 311	1.560S	28.590E	0	333.18	0010	330.	500.	0000	22	2544	0	LAKE KIVU 1
ZZZ	72	1	0001	0000	15	72 3 0	2.170S	29.047E	1	333.29	0001	225.	405.	0000	22	5619	0	LAKE KIVU 2
ZZZ	72	1	0003	0000	15	72 3 0	1.476S	29.125E	1	333.19	0002	420.	64.	0000	22	5836	0	LAKE KIVU 2
ZZZ	72	1	0004	0000	15	72 3 0	1.476S	29.125E	1	333.19	0003	420.	950.	0000	22	0000	0	LAKE KIVU 2
ZZZ	72	1	0010	0000	15	72 3 0	1.472S	29.137E	1	333.19	0005	400.	145.	0000	22	5816	0	LAKE KIVU 2
ZZZ	72	1	0011	0000	15	72 3 0	1.451S	29.157E	1	333.19	0006	150.	158.	0000	22	5819	0	LAKE KIVU 2

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 333										
ZZZ	72	1	0012	0000	15	72 3 0	1.477S	29.156E	1	333.19	0007	200.	304.	0000	22	5816	0	LAKE KIVU 2
ZZZ	72	1	0013	0000	15	72 3 0	2.259S	28.516E	1	333.28	0008	70.	452.	0000	22	5816	0	LAKE KIVU 2
ZZZ	72	1	0015	0000	15	72 3 0	2.177S	28.588E	1	333.28	0009	50.	545.	0000	22	0000	0	LAKE KIVU 2
ZZZ	72	1	0019	0000	15	72 3 0	1.375S	29.036E	1	333.19	0010	120.	234.	0000	22	2669	0	LAKE KIVU 2
ZZZ	72	2	0001	0000	15	72 3 0	.335S	29.264E	1	333.09	0001	20.	52.	0000	22	5025	0	LAKE EDWARD
ZZZ	72	2	0002	0000	15	72 3 0	.292S	29.278E	1	333.09	0002	42.	322.	0000	22	5659	0	LAKE EDWARD
ZZZ	72	2	0003	0000	15	72 3 0	.269S	29.275E	1	333.09	0003	55.	515.	0000	22	5279	0	LAKE EDWARD
ZZZ	72	2	0004	0000	15	72 3 0	.211S	29.270E	1	333.09	0004	100.	541.	0000	22	5519	0	LAKE EDWARD
ZZZ	72	2	0005	0000	15	72 3 0	.171S	29.283E	1	333.09	0005	110.	545.	0000	22	5519	0	LAKE EDWARD
								MARSDEN SQUARE # 334										
CHN	99	3	0041	0000	15	70 6 5	8.408S	10.268E	1	334.80	0031	3855.	1144.	0000	6	8653	54	
CHN	99	3	0041	0000	26	70 6 5	8.408S	10.268E	1	334.80	0031	3855.	0.	0124	6	2429	54	
CHN	99	3	0042	0000	15	70 6 6	8.405S	11.495E	1	334.51	0032	1945.	633.	0000	6	3359	54	
CHN	99	4	0046	0000	15	70 6 6	8.505S	11.492E	9	334.81	0033	2209.	1019.	0000	6	0129	54	
CHN	99	4	0046	0000	26	70 6 6	8.505S	11.492E	9	334.81	0033	2209.	0.	0155	6	4429	54	
								MARSDEN SQUARE # 335										
CHN	99	3	0037	0000	15	70 6 2	8.380S	2.045E	9	335.82	0027	5658.	1104.	0000	10	4639	54	
CHN	99	3	0037	0000	26	70 6 2	8.380S	2.045E	9	335.82	0027	5658.	0.	0186	10	5029	54	
CHN	99	3	0038	0000	15	70 6 3	8.371S	4.248E	1	335.84	0028	5371.	1175.	0000	10	1522	54	
CHN	99	3	0038	0000	26	70 6 3	8.371S	4.248E	1	335.84	0028	5371.	0.	0188	10	5632	54	
CHN	99	3	0039	0000	15	70 6 3	8.427S	6.300E	1	335.86	0029	4938.	1111.	0000	10	2811	54	
CHN	99	3	0039	0000	26	70 6 3	8.427S	6.300E	1	335.86	0029	4938.	0.	0187	10	6129	54	
CHN	99	3	0040	0000	15	70 6 4	8.410S	8.310E	9	335.88	0030	4515.	1163.	0000	10	6429	54	
CHN	99	3	0040	0000	26	70 6 4	8.410S	8.310E	9	335.88	0030	4515.	0.	0185	10	6429	54	
								MARSDEN SQUARE # 336										
CHN	43	1	0027	0000	13	64 427	17.220S	60.240E	5	336.70	0012	3881.	135.	0000	15	0329	0	
								MARSDEN SQUARE # 346										
CHN	100	11	0136	0000	15	711020	10.239S	105.300W	1	346.05	0090	3861.	609.	0000	99	3422	54	
CHN	100	11	0136	0000	26	711020	10.239S	105.300W	1	346.05	0090	3861.	0.	0154	99	3322	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 346											
CHN	100	11	0137	0000	15	711021	10.232S	103.482W	1	346.03	0091	4228.	767.	0000	99	1329	54	
CHN	100	11	0137	0000	26	711021	10.232S	103.482W	1	346.03	0091	4228.	0.	0133	99	1459	54	
CHN	100	11	0138	0000	15	711021	10.220S	102.380W	1	346.02	0092	4287.	600.	0000	99	1159	54	
CHN	100	11	0138	0000	26	711021	10.220S	102.380W	1	346.02	0092	4287.	0.	0070	99	1159	54	
CHN	100	11	0139	0000	15	711022	10.228S	101.008W	1	346.01	0093	4274.	818.	0000	0	3122	54	SAME AS 138
							MARSDEN SQUARE # 354											
CHN	100	9	0077	0000	15	71 8 5	17.106S	170.087E	1	354.70	0054	3069.	508.	0000	0	0932	54	
CHN	100	9	0078	0000	15	71 8 6	16.558S	170.590E	1	354.60	0055	3316.	553.	0000	0	0931	54	
CHN	100	9	0078	0000	26	71 8 6	16.558S	170.590E	1	354.60	0055	3316.	0.	0126	0	0229	54	
CHN	100	9	0096	0000	15	71 821	13.200S	170.354E	1	354.30	0066	3385.	558.	0000	0	3560	54	
CHN	100	9	0096	0000	26	71 821	13.200S	170.354E	1	354.30	0066	3385.	0.	0123	0	3569	54	
CHN	100	9	0097	0000	15	71 822	14.488S	170.447E	1	354.40	0067	3515.	360.	0000	0	0931	54	
CHN	100	9	0097	0000	26	71 822	14.488S	170.447E	1	354.40	0067	3515.	0.	0035	0	3569	54	
CHN	100	9	0101	0000	15	71 824	15.286S	171.225E	0	354.57	0070	3312.	536.	0000	10	3931	0	
CHN	100	9	0101	0000	26	71 824	15.286S	171.225E	0	354.57	0070	3312.	0.	0114	10	3560	0	
CHN	100	9	0102	0000	15	71 824	15.286S	172.068E	1	354.52	0071	3300.	442.	0000	0	3560	54	
CHN	100	9	0102	0000	26	71 824	15.286S	172.068E	1	354.52	0071	3300.	0.	0145	0	3560	54	
							MARSDEN SQUARE # 355											
CHN	100	8	0071	0000	15	71 728	14.170S	163.543E	1	355.43	0049	3800.	1018.	0000	0	3420	54	
CHN	100	8	0071	0000	26	71 728	14.170S	163.543E	1	355.43	0049	3800.	0.	0133	0	4339	54	
CHN	100	8	0072	0000	15	71 728	14.049S	164.300E	1	355.44	0050	3903.	944.	0000	0	3518	54	
CHN	100	8	0072	0000	26	71 728	14.049S	164.300E	1	355.44	0050	3903.	0.	0150	0	3511	54	
CHN	100	8	0074	0000	15	71 730	18.287S	166.048E	1	355.86	0051	4437.	1143.	0000	0	0967	54	
CHN	100	8	0074	0000	26	71 730	18.287S	166.048E	1	355.86	0051	4437.	0.	0125	0	0964	54	
CHN	100	8	0075	0000	15	71 731	18.285S	166.048E	1	355.86	0052	4348.	1074.	0000	0	1629	54	
CHN	100	8	0075	0000	26	71 731	18.285S	166.048E	1	355.86	0052	4348.	0.	0152	0	0969	54	
CHN	100	9	0076	0000	15	71 8 5	17.283S	169.158E	1	355.79	0053	1971.	173.	0000	0	0939	54	
CHN	100	9	0076	0000	26	71 8 5	17.283S	169.158E	1	355.79	0053	1971.	0.	0142	0	0949	54	
CHN	100	9	0079	0000	15	71 8 8	18.338S	167.159E	1	355.87	0056	4526.	335.	0000	0	4934	54	
CHN	100	9	0080	0000	15	71 8 8	18.034S	167.114E	1	355.87	0057	4215.	541.	0000	0	3120	54	
CHN	100	9	0080	0000	26	71 8 8	18.034S	167.114E	1	355.87	0057	4215.	0.	0098	0	3120	54	
CHN	100	9	0082	0000	15	71 810	15.564S	169.412E	1	355.59	0058	3237.	119.	0000	0	9959	54	
CHN	100	9	0082	0000	26	71 810	15.564S	169.412E	1	355.59	0058	3237.	0.	0045	0	1931	54	
CHN	100	9	0084	0000	15	71 811	16.163S	166.117E	1	355.66	0059	4490.	862.	0000	0	1328	54	
CHN	100	9	0084	0000	26	71 811	16.163S	166.117E	1	355.66	0059	4490.	0.	0148	0	6120	54	
CHN	100	9	0087	0000	15	71 814	12.507S	168.381E	1	355.28	0060	3473.	855.	0000	0	3961	54	
CHN	100	9	0087	0000	26	71 814	12.507S	168.381E	1	355.28	0060	3473.	0.	0152	0	3569	54	

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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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
							MARSDEN SQUARE # 355											
CHN	100	9	0088	0000	15	71 815	13•045S	167•520E	1	355•37	0061	2811•	520•	0000	0	3568	54	
CHN	100	9	0088	0000	26	71 815	13•045S	167•520E	1	355•37	0061	2811•	0•	0120	0	3568	54	
CHN	100	9	0089	0000	15	71 815	13•338S	166•165E	0	355•36	0062	5851•	285•	0000	10	1931	0	
CHN	100	9	0092	0000	15	71 818	11•325S	167•347E	1	355•17	0063	2640•	550•	0000	0	3560	54	
CHN	100	9	0092	0000	26	71 818	11•325S	167•347E	1	355•17	0063	2640•	0•	0152	0	3929	54	
CHN	100	9	0094	0000	15	71 819	12•114S	167•134E	1	355•27	0064	1805•	298•	0000	0	3931	54	
CHN	100	9	0094	0000	26	71 819	12•114S	167•134E	1	355•27	0064	1805•	0•	0144	0	3327	54	
CHN	100	9	0095	0000	15	71 820	11•571S	169•341E	1	355•19	0065	3280•	487•	0000	0	3931	54	
CHN	100	9	0095	0000	26	71 820	11•571S	169•341E	1	355•19	0065	3280•	0•	0143	0	3929	54	
CHN	100	9	0098	0000	15	71 822	14•015S	169•511E	1	355•49	0068	3670•	390•	0000	0	3560	54	
CHN	100	9	0098	0000	26	71 822	14•015S	169•511E	1	355•49	0068	3670•	0•	0147	0	3560	54	
CHN	100	9	0099	0000	15	71 823	14•554S	169•108E	1	355•49	0069	3248•	330•	0000	0	0931	54	
CHN	100	9	0099	0000	26	71 823	14•554S	169•108E	1	355•49	0069	3248•	0•	0137	0	0931	54	
							MARSDEN SQUARE # 356											
CHN	100	8	0070	0000	15	71 727	10•134S	157•095E	0	356•07	0048	5140•	597•	0000	10	3148	0	
							MARSDEN SQUARE # 365											
CHN	43	1	0028	0000	13	64 427	14•150S	62•510E	5	365•42	0013	3820•	107•	0000	10	3569	0	
							MARSDEN SQUARE # 366											
AII	15	13	0732	0000	13	65 611	19•530S	56•480E	9	366•96	0732	4382•	118•	0000	6	0362	0	
AII	15	13	0733	0000	13	65 611	19•560S	55•170E	9	366•95	0733	4382•	39•	0000	6	4869	0	
AII	15	13	0737	0000	13	65 612	19•595S	50•065E	9	366•90	0737	4356•	80•	0000	6	0459	0	
CHN	43	1	0023	0000	13	64 423	17•270S	58•055E	5	366•78	0011	4038•	127•	0000	15	3329	0	
CHN	43	1	0030	0000	13	64 430	11•300S	58•240E	5	366•18	0014	4095•	262•	0000	10	3469	0	
CHN	43	1	0033	0000	13	64 5 2	18•040S	58•240E	5	366•88	0016	3869•	163•	0000	15	0329	0	
							MARSDEN SQUARE # 367											
AII	15	7	0673	0000	13	65 5 5	10•440S	40•540E	9	367•00	0673	1210•	10•	0000	6	0000	0	ONE JAR
AII	15	7	0675	0000	13	65 5 6	11•395S	43•070E	9	367•13	0675	2379•	0•	0000	6	0000	0	1 VIAL
CHN	99	8	0064	0000	15	7012 3	13•182S	46•585E	9	367•36	0045	3243•	693•	0000	21	3819	54	
CHN	99	8	0064	0000	26	7012 3	13•182S	46•585E	9	367•36	0045	3243•	0•	0107	21	3731	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 367										
CHN	99	8	0065	0000	15	7012 5	12.591S	41.367E	9	367.21	0046	3540.	896.	0000	99	3721	54	
CHN	99	8	0065	0000	26	7012 5	12.591S	41.367E	9	367.21	0046	3540.	0.	0069	99	3339	54	
CHN	99	8	0066	0000	15	7012 6	13.113S	41.239E	9	367.31	0047	2350.	875.	0000	99	3359	54	
CHN	99	8	0066	0000	26	7012 6	13.113S	41.239E	9	367.31	0047	2350.	0.	0158	99	3359	54	
CHN	99	8	0067	0000	15	7012 7	14.533S	45.406E	9	367.45	0048	2941.	804.	0000	21	2329	54	
CHN	99	8	0067	0000	26	7012 7	14.533S	45.406E	9	367.45	0048	2941.	0.	0067	21	3429	54	
CHN	99	8	0068	0000	15	7012 9	16.042S	41.332E	9	367.61	0049	2758.	840.	0000	12	3731	54	
CHN	99	8	0068	0000	26	7012 9	16.042S	41.332E	9	367.61	0049	2758.	0.	0183	12	4831	54	
CHN	99	8	0069	0000	15	701211	15.256S	41.336E	9	367.51	0050	2085.	161.	0000	99	7828	54	
CHN	99	8	0070	0000	15	701213	11.308S	41.501E	9	367.11	0051	2151.	860.	0000	99	3039	54	
CHN	99	8	0070	0000	26	701213	11.308S	41.501E	9	367.11	0051	2151.	0.	0035	99	3329	54	
								MARSDEN SQUARE # 370										
CHN	99	4	0048	0000	15	70 613	11.050S	10.440E	9	370.10	0034	3961.	1122.	0000	10	4229	54	
CHN	99	4	0048	0000	26	70 613	11.050S	10.440E	9	370.10	0034	3961.	0.	0188	10	3439	54	
CHN	99	4	0049	0000	15	70 616	19.007S	10.040E	1	370.90	0035	4130.	973.	0000	15	0629	54	
CHN	99	4	0049	0000	26	70 616	19.007S	10.040E	1	370.90	0035	4130.	0.	0137	15	0429	54	
								MARSDEN SQUARE # 371										
CHN	99	4	0051	0000	15	70 617	19.584S	9.218E	1	371.99	0037	2324.	949.	0000	99	3329	54	
								MARSDEN SQUARE # 375										
AII	60	2	0007	0000	15	71 226	26.399S	34.000W	9	375.64	0007	4626.	164.	0000	5	1937	0	
AII	60	2	0009	0000	15	71 228	29.083S	34.346W	9	375.94	009A	3273.	223.	0000	5	3327	0	
AII	60	2	0009	0000	13	71 228	29.046S	34.406W	9	375.94	009B	2990.	273.	0000	5	3329	0	
AII	60	2	0010	0000	15	71 228	29.380S	34.400W	9	375.94	0010	1840.	120.	0000	5	3329	0	
								MARSDEN SQUARE # 402										
AII	15	13	0735	0000	13	65 612	20.020S	52.290E	9	402.02	0735	4936.	50.	0000	6	3352	0	

STATION DATA RETRIEVAL
DATE: 12:36 MAY 16,'75

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIOGRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 403										
AII	15	13	0744	0000	13	65 615	24.540S	48.110E	9	403.48	0744	4039.	138.	0000	6	0059	0	
AII	15	13	0745	0000	13	65 615	24.590S	47.450E	9	403.47	0745	3269.	22.	0000	6	3969	0	
AII	15	13	0746	0000	13	65 616	25.031S	47.264E	9	403.57	0746	1307.	72.	0000	6	0059	0	
AII	15	14	0747	0000	13	65 616	26.010S	44.320E	9	403.64	0747	1286.	0.	0000	6	0000	0	ONE JAR
AII	15	14	0748	0000	13	65 617	26.010S	43.570E	9	403.63	0748	2943.	78.	0000	6	3059	0	
AII	15	14	0751	0000	13	65 618	26.070S	41.160E	9	403.61	0751	4243.	60.	0000	6	4452	0	
								MARSDEN SQUARE # 404										
AII	15	14	0753	0000	13	65 618	25.550S	38.530E	9	404.58	0753	3884.	80.	0000	6	4459	0	
AII	15	14	0755	0000	13	65 619	25.565S	36.420E	9	404.56	0755	1948.	20.	0000	6	0000	0	L CONTAINER
AII	15	14	0756	0000	13	65 619	25.540S	36.090E	9	404.56	0756	1840.	63.	0000	6	3359	0	
AII	15	14	0758	0000	13	65 620	25.560S	34.450E	9	404.54	0758	792.	26.	0000	6	3869	0	
								MARSDEN SQUARE # 407										
CHN	99	4	0050	0000	15	70 617	20.490S	9.563E	1	407.09	0036	2640.	1038.	0000	15	3329	54	
CHN	99	4	0050	0000	26	70 617	20.490S	9.563E	1	407.09	0036	2640.	0.	0177	15	0329	54	
CHN	99	4	0052	0000	15	70 619	21.448S	8.300E	1	407.18	0038	4331.	931.	0000	99	3721	54	WALVIS RDG
CHN	99	4	0052	0000	26	70 619	21.448S	8.300E	1	407.18	0038	4331.	0.	0184	99	0039	54	WALVIS RDG
								MARSDEN SQUARE # 411										
AII	60	2	0013	0000	15	71 3 1	31.591S	36.388W	9	411.16	013A	2739.	207.	0000	5	3329	0	
AII	60	2	0013	0000	15	71 3 2	32.299S	38.519W	9	411.28	013B	3122.	219.	0000	5	3329	0	
AII	60	2	0014	0000	15	71 3 2	32.340S	39.206W	9	411.29	0014	4463.	162.	0000	5	1129	0	VOID 0-80CM
								MARSDEN SQUARE # 412										
AII	60	2	0015	0000	15	71 3 3	32.270S	40.277W	9	412.20	015A	3190.	561.	0000	5	3329	0	
AII	60	2	0015	0000	15	71 3 3	32.280S	40.339W	9	412.20	015B	3270.	244.	0000	5	6962	0	
								MARSDEN SQUARE # 434										
AII	15	15	0773	0000	13	65 711	32.015S	92.105E	9	434.22	0773	4450.	133.	0000	19	4433	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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
								MARSDEN SQUARE # 438										
AII	15	15	0766	0000	13	65 7 3	32.000S	55.070E	9	438.25	0766	4417.	32.	0000	13	4359	0	
								MARSDEN SQUARE # 439										
AII	15	15	0763	0000	13	65 630	32.010S	40.491E	9	439.20	0763	4549.	124.	0000	19	4432	0	
AII	15	15	0765	0000	13	65 7 2	32.015S	49.555E	9	439.29	0765	3698.	117.	0000	14	3359	0	
								MARSDEN SQUARE # 440										
AII	15	15	0761	0000	13	65 628	31.326S	32.346E	9	440.14	0761	2916.	55.	0000	6	3359	0	

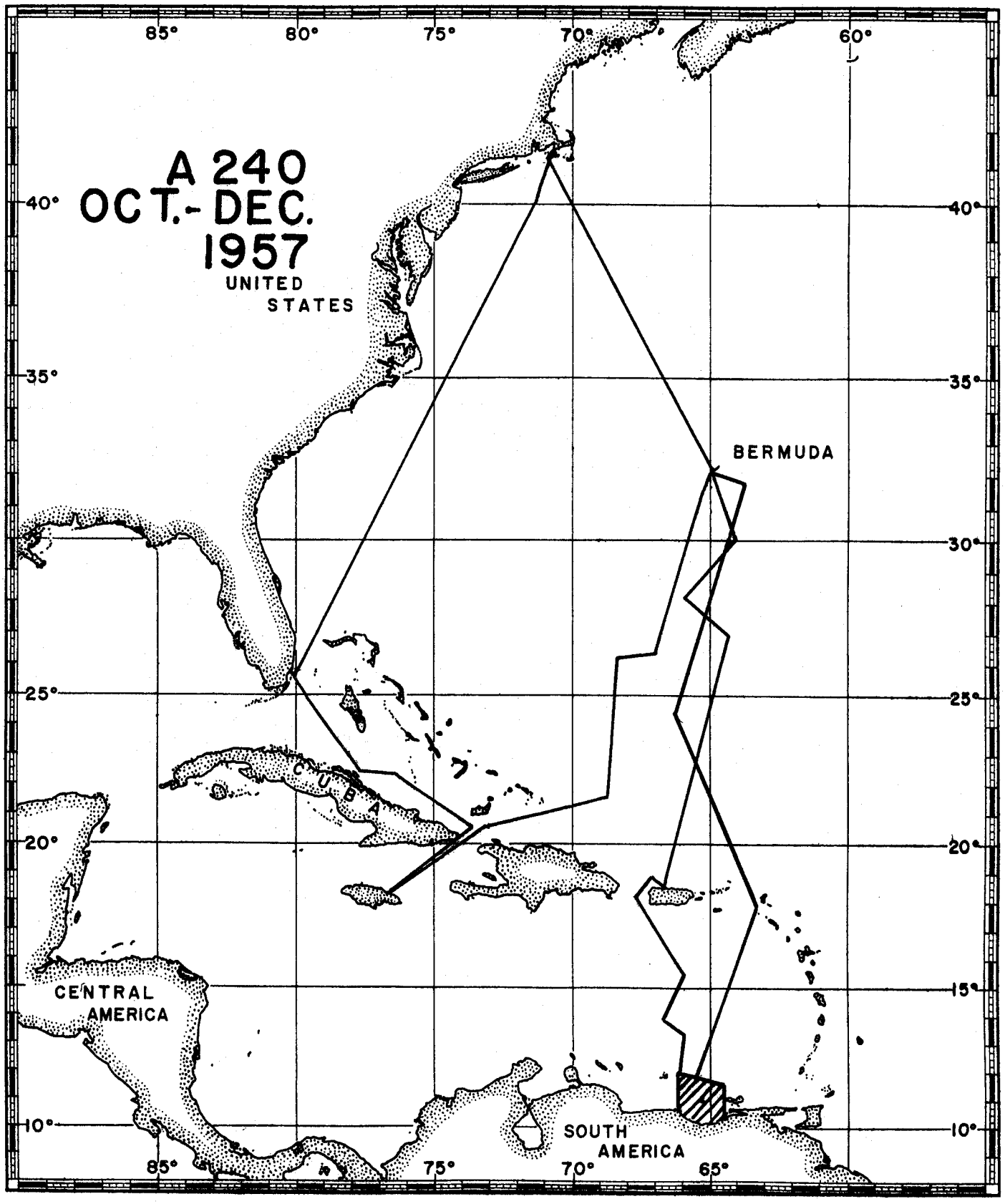
THERE WERE 1165 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

STOP THAT IS ALL FOR NOW

DESCRIPTIONS OF W.H.O.I. SEDIMENT CORES

VOLUME I of IV


A 240
OCT.- DEC.
1957
UNITED
STATES
BERMUDA
CUBA
CENTRAL
AMERICA
SOUTH
AMERICA
85°
80°
75°
70°
60°
65°
40°
35°
30°
25°
20°
15°
10°

********** STATION DATA RETRIEVAL **********
********** DATE: 06:32 MAY 13,1975 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	240	1	0007	0000	15	57112	10.480N	65.515W	5	43.05	0007	253.	357.	0000	18	3769	0	
ATL	240	1	0008	0000	15	57112	10.440N	65.517W	5	43.05	0008	526.	542.	0020	8	3769	0	
ATL	240	1	0009	0000	15	57113	10.407N	65.515W	5	43.05	0009	1342.	375.	0000	18	2348	0	
ATL	240	1	0010	0000	15	57113	10.367N	65.498W	5	43.05	0010	673.	450.	0000	18	3349	0	
ATL	240	1	0011	0000	15	57114	10.288N	65.357W	5	43.05	0011	572.	56.	0000	18	4446	0	
ATL	240	1	0012	0000	15	57114	10.375N	65.324W	5	43.05	0012	1345.	591.	0000	18	3865	0	
ATL	240	1	0013	0000	15	57115	10.518N	65.318W	5	43.05	0013	942.	850.	0000	18	4446	0	
ATL	240	1	0014	0000	15	57115	10.552N	65.322W	5	43.05	0014	385.	840.	0000	18	4329	0	
ATL	240	1	0015	0000	15	57116	10.525N	65.080W	5	43.05	0015	354.	580.	0000	18	8455	0	
ATL	240	1	0016	0000	15	57117	10.387N	65.045W	5	43.05	0016	914.	715.	0000	18	3075	0	
ATL	240	1	0017	0000	15	57117	10.326N	64.512W	5	43.04	0017	1348.	760.	0000	18	4731	0	
ATL	240	1	0018	0000	15	57117	10.308N	64.400W	5	43.06	0018	1370.	952.	0000	18	4839	0	
ATL	240	1	0019	0000	15	57118	10.223N	64.425W	5	43.04	0019	177.	612.	0000	18	3845	0	
ATL	240	1	0020	0000	15	57118	10.240N	64.412W	5	43.04	0020	822.	915.	0000	18	4176	0	
ATL	240	1	0021	0000	15	57119	10.262N	64.415W	5	43.04	0021	980.	886.	0000	18	3029	0	
ATL	240	1	0022	0000	15	57119	10.340N	64.418W	5	43.04	0022	1281.	580.	0000	18	4378	0	
ATL	240	1	0023	0000	15	57119	10.472N	64.396W	5	43.04	0023	278.	909.	0000	18	3075	0	

THERE WERE 17 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

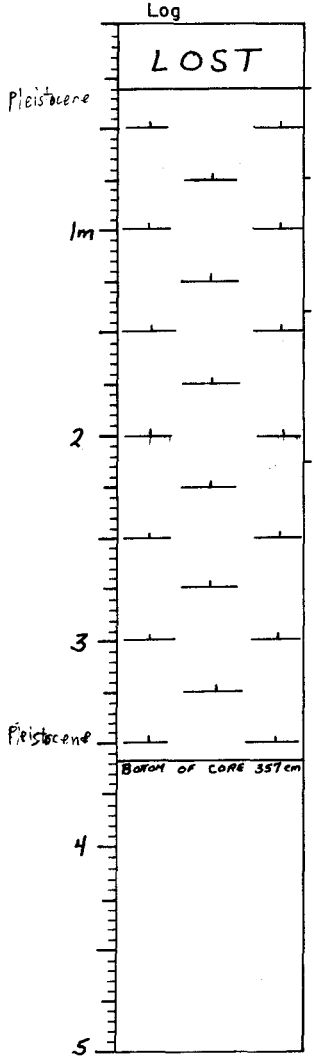
STOP THAT IS ALL FOR NOW
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 240 Leg ____ Sta. 7 Core No. 7PC
Total Length 357 cm. Lat. 10° 48.0'N Long. 65° 51.5'W Depth 253 corr m
Core condition fairly moist ; good Date Described 4/17/74 by B McGirr
Physiographic location N Slope of W Basin of Cariaco Trench

Lithologic Log



Forams inc.

Detailed Description

0-30
LOST

30-74
CALC OOZE
5Y 4/2 olive gray
firm v. silty lutite, few forams
v. thin faint lams throughout
G

74-140
CALC OOZE
5Y 4/2 olive gray
firm, v. silty lutite, few forams
v. thin, faint lams throughout
S irregular

140-213
CALC OOZE
5Y 3/2 dk olive gray
firm v. silty lutite, few forams
v. thin faint lams throughout, somewhat crumbly throughout; pteropod testa visible
S irregular

213-357
CALC OOZE
5Y 5/2 olive gray
firm silty lutite, few forams
somewhat crumbly 230-266 cm
S

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

Ship: Atlantis Core No. 7PC
Expedition 240 Station No. 7
Leg No. ____ Total Core Length 357 cm

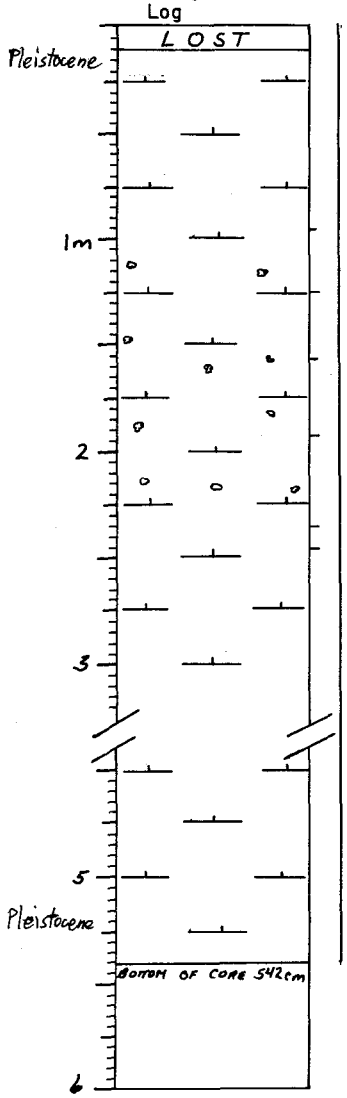
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
9	31 cm	calc ooze	7	4		3	30	7	22	4		12			2
9	100 cm	calc ooze	4	2		1	33	2	27	4	tr	15	tr		3
9	200 cm	calc ooze	4	2		1	38	6	20	4		15	tr		2
10	356 cm	calc ooze	5	tr		1	34	2	25	6		15			2

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 240 Leg ____ Sta. 8 Core No. 8PC
Total Length 542 cm. Lat. 10° 44.0' N Long. 65° 51.7' W Depth 5216 CORR m
Core condition moist; very good Date Described 4/17/74 by B McGirr
Physiographic location N. Slope of W. Basin of the Cariaco Trench

Lithologic Log



Forams inc

Detailed Description

0-11
LOST

11-96
CALC OOZE
5Y 4/2, 3/2 olive gray to dk olive gray
firm, silty lutite, few forams
pteropod fragments scattered, dk at bottom of unit
S inclined 20°

96-125
CALC OOZE
5Y 4/2 olive gray
scattered mottling 109-116 cm, small, brown
firm, silty lutite, few forams
v. faint thin lams
S inclined 10°

125-157
CALC OOZE
5Y 4/2 olive gray
scattered mottling 145-157 cm, brown
firm, silty lutite, few forams
S horizontal

157-193
CALC OOZE
5Y 5/2 olive gray
scattered mottling throughout, brown
firm silty lutite, few forams
G

193-235
CALC OOZE
5Y 5/3 olive
firm silty lutite, few forams
211-214 cm 1 irregular patch olive gray
G

235-245
CALC OOZE
5Y 4/2 olive gray
firm, silty lutite, few forams
S inclined 10°

245-542
CALC OOZE
5Y 5/2, 4/2 olive gray
firm silty lutite, few forams
sl variations in color throughout unit, gypsum crystals scattered from 420-543 cm
S

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

Ship: Atlantis Core No. 8PC
Expedition 240 Station No. 8
Leg No. ____ Total Core Length 542 cm

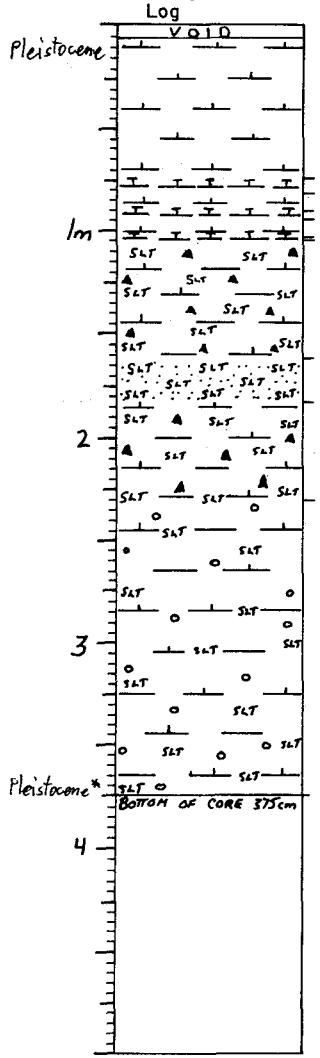
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
8	12 cm	calc ooze	4	1		2	54	4	15	2		10	tr		tr
4	100 cm	calc ooze	15	1		1	45	3	17	4		10			tr
15	175 cm	calc ooze	7	tr		2	35	3	25	3		10			tr
4	200 cm	calc ooze	7	2		2	30	2	34	4		15			tr
4	400 cm	calc ooze	4	2		1	38	2	35	4		10			
8	541 cm	calc ooze	4	2		1	40	4	18	3		20			

0078

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 9 Core No. 9PC
Total Length 375 cm. Lat. 10° 40.7' N Long. 65° 51.5' W Depth 1342 corrm
Core condition fairly moist; good Date Described 4/18/74 by B McGirr
Physiographic location Near the bottom of the West Basin, Cariaco Trench

Lithologic Log



Forams inc

Detailed Description

0-74
CALC OOZE
5Y 3/2 dk olive gray
firm, v. silty lutite, forams scattered
0-7 cm void, pteropods tests scattered throughout core
S irregular

74-82
FORAM SAND
5Y 7/3 pale yellow
silt-medium sand, foram sand
S irregular

82-91
CALC OOZE
5Y 3/2 dk olive gray
firm v. silty lutite, forams scattered
S irregular

91-95
FORAM SAND
5Y 7/3 pale yellow
silt to medium sand, foram sand
S

95-103
CALC OOZE
5Y 3/2 dk olive gray
firm v. silty lutite, forams scattered
S irregular

103-105
FORAM SAND
5Y 7/3 pale yellow
silt to medium sand, foram sand
S irregular

105-162
HLY CALC CLAY/DET WITH PYRITE
5Y 3/2 dk olive gray
firm v. silty lutite, forams scattered
faint, thin lams throughout
S irregular

162-183
DETRITUS
lutite to coarse sand with some pebbles and shell hash
appears to be slumped in from above
S irregular

183-231
HLY CALC CLAY/DET WITH PYRITE
5Y 3/2 dk olive gray
firm, v. silty lutite, forams scattered
some v. thin silt lams, sl convex up
S irregular

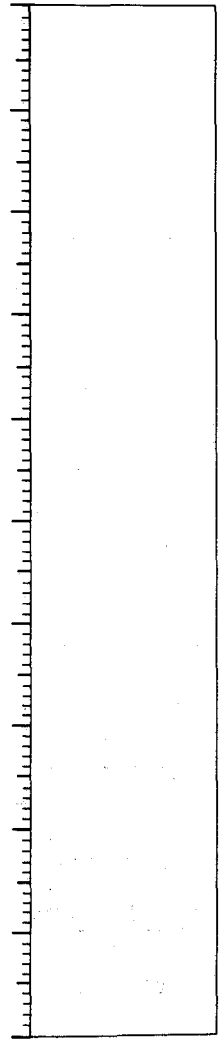
231-375
HLY CALC CLAY WITH DET TO HLY CALC CLAY/DET WITH PEBBLES
5Y 4/2, 3/2 olive gray to dk olive gray

0079

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 9 Core No. 9PC

Lithologic Log



Detailed Description

firm silty lutite with sand and pebbles scattered throughout
v. poorly sorted unit
S

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

Ship: Atlantis Core No. 9 PC

Expedition 240 Station No. 9

Leg No. _____ Total Core Length 375 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
8	8 cm	calc ooze	8	2		4	44	4	20	1		8			1
	76 cm	foram sand					4	45	2	4		45			
20	150 cm	hly calc clay/ det with pyrite	35	1		10	12	5	10	tr		5	tr		2
13	250 cm	hly calc clay with pyrite	25	3		5	30	4	10	tr		10			
5	375 cm	hly calc clay/ det	55	7		5	10	4	4	tr		10			

VISUAL CORE DESCRIPTION

Page 1 of 1

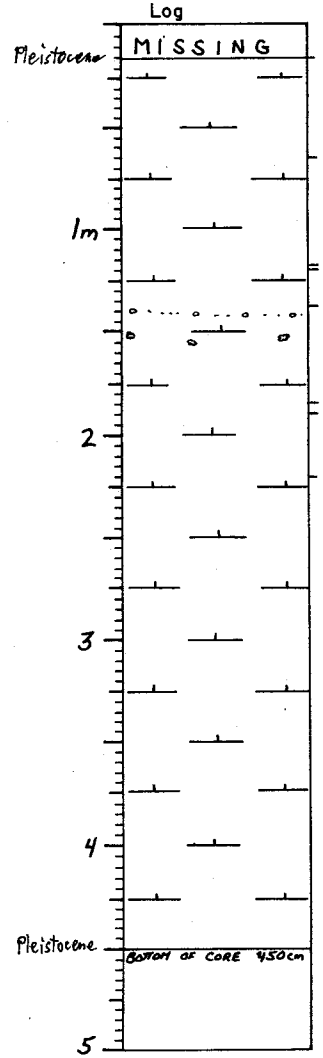
Ship A Cruise 240 Leg ____ Sta. 10 Core No. 10 PC

Total Length 450 cm. Lat. 10° 36.7' N Long. 65° 49.8' W Depth 673 corr m

Core condition moist; good Date Described 4/18/74 by B McGirr

Physiographic location W. Basin, Cariaco Trench

Lithologic Log



Detailed Description

0-16
VOID
16-65
CALC OOZE
5Y 3/2 dark olive gray
firm silty lutite.. forams scattered
faint color variations within unit
very G
65-118
CALC OOZE
5Y 3/2 dark olive gray
firm silty lutite
83-85cm.. olive gray lutite layer no forams, sharp contact
S irregular
118-120
CALC OOZE
5Y 4/2 olive gray
firm silty lutite.. no forams
S irregular
120-139
CALC OOZE
5Y 5/1 gray
firm slightly silty lutite.. no forams
very last 2cm of unit have sandy-pebbley material included
S irregular
139-185
CALC OOZE
5Y 4/3 olive
scattered small olive gray mottling.. 150-60
firm slightly silty lutite.. no forams
S irregular'
185-191
CALC OOZE
5Y 4/2 olive gray
firm slightly silty lutite.. no forams
gypsum? crystals scattered throughout unit
S irregular
191-220
CALC OOZE
5Y 5/2 olive gray
firm slightly silty lutite
S bottom of section 3
220-450
CALC OOZE
5Y 4/2 olive gray
firm silty lutite.. few forams
slight color variations within unit
NOTE:this core was originally listed as being 543 cm long.
It has since been remeasured.. but one section has evidently been lost.

END OF CORE

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

Ship: Atlantis Core No. 10 PC

Expedition 240 Station No. 10

Leg No. _____ Total Core Length 450 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
8	17 cm	calc ooze	4	3		1	35	4	37	tr		8			tr
8	100 cm	calc ooze	8	3		2	28	8	35	1		7	tr		tr
7	132 cm	calc ooze	8	2		5	40	2	30	1		5			
4	170 cm	calc ooze	4	2		4	40	5	35	1		5			
4	200 cm	calc ooze	8	2		3	29	4	40	2		8			
8	300 cm	calc ooze	5	2		1	32	5	38	1		8			
7	449 cm	calc ooze	8	3		2	40	3	30	1		6			

VISUAL CORE DESCRIPTION Page 1 of 1

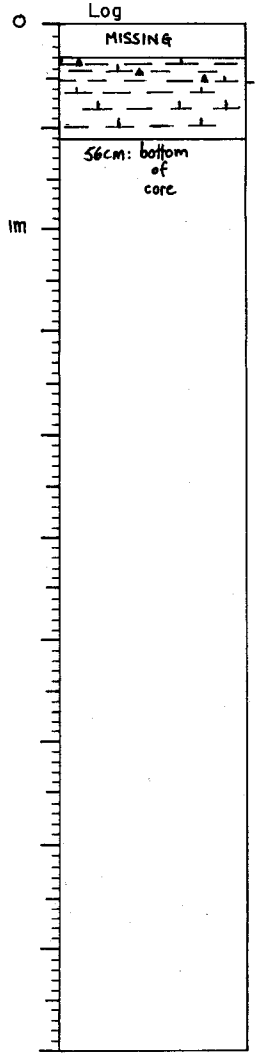
Ship A Cruise 240 Leg ____ Sta. 11 Core No. 11PC

Total Length 56 cm. Lat. 10° 28.8'N Long. 65° 35.7'W Depth 572 corr M.

Core condition good, fairly moist Date Described 6 MAY 74 by G MOUNTAIN

Physiographic location CARIACO TRENCH

Lithologic Log



Detailed Description

0-16
MISSING

16-26
SL CALC CLAY/PYRITE
5Y 4/3 olive
faint dk grayish brown discolorations, mottles scattered
firm, moist smooth lutite
core stored with out liner, length now inaccurate
S irregular

26-56
CALC CLAY
10YR 5/4 yellowish brown
firm moist sl silty lutite

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

Ship: Atlantis Core No. 11PC

Expedition 240 Station No. 11

Leg No. _____ Total Core Length 56 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
30	17 cm	sl calc clay/ pyrite	5				60		5						
tr	55 cm	calc clay	10	5?			70	tr	5	tr		10			

VISUAL CORE DESCRIPTION Page 1 of 1

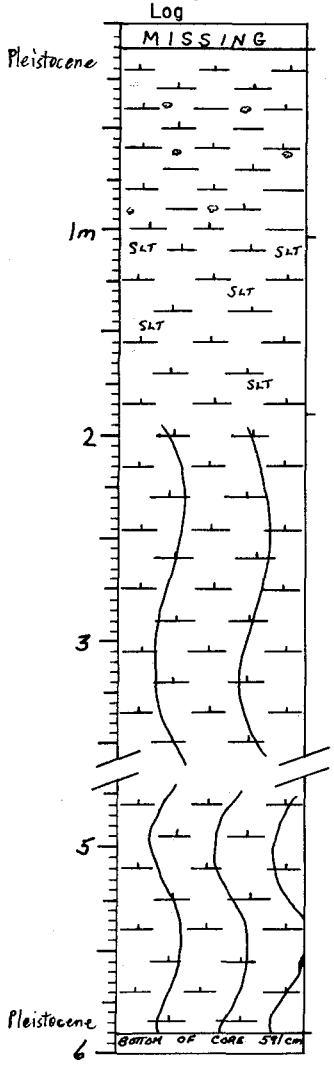
Ship A Cruise 240 Leg ____ Sta. 12 Core No. 12PC

Total Length 591 cm. Lat. 10° 37.5' N Long. 65° 32.4' W Depth 1345 corr m

Core condition moist; good Date Described 4/22/74 by A McGirr

Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

0-11
MISSING

11-103
CALC OOZE AND HLY CALC CLAY
5Y 4/2, 3/2 olive gray and dk olive gray
common mottling in lutite
this unit is a sequence of 2 alternating layers. one is v. silty lutite and the other is sl silty lutite, white shell fragments in silty lutite. v. silty lutite- 11-37, 50-53, 59-65, 68-74, 85-86 cm, sl silty lutite- 37-50 cm, 53-59, 65-68, 74-85, 86-103 cm
sharp contacts between layers
S

103-190
CALC OOZE/DET
5Y 3/2 dk olive gray
firm silty lutite
40 cm of this section have been sampled, no indication as to exactly where in this section. 103-190 cm, patches of white lutite clumps scattered throughout unit, some mineral (chalcedony?)

190-591
CALC OOZE
5Y 3/2 dk olive gray
firm silty lutite
281-293 cm missing, 500-503 cm missing, this unit is v. homogeneous except for a vertical streak of brown lutite that extends continuously from 411 to 591 cm and in patches from 300-411 and possibly even higher up the core. this strongly suggests suck up in the lower part of the core, and possibly from 190 cm to the v. bottom
S

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

Ship: Atlantis Core No. 12 PC

Expedition 240 Station No. 12

Leg No. _____ Total Core Length 591 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
7	12 cm	calc ooze	5	3		2	51	4	20	tr		8			tr
6	80 cm	hly calc clay	10	2		2	55	2	15			7	tr		1
7	150 cm	calc ooze/det	35	3		2	16	5	20			7	3		2
5	300 cm	calc ooze	5	4		2	40	1	38			5	tr		tr
4	590 cm	calc ooze	10	4		1	40	4	30			5	tr		2

VISUAL CORE DESCRIPTION Page 1 of 1

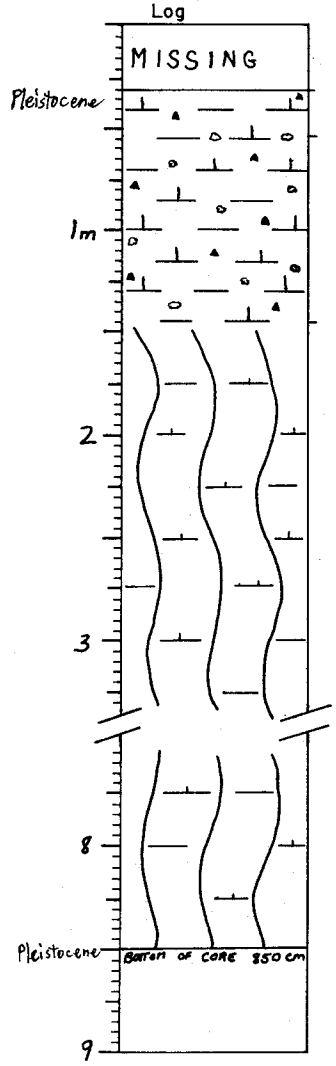
Ship A Cruise 240 Leg ____ Sta. 13 Core No. 13 PC

Total Length 850 cm. Lat. 10° 51.8' N Long. 65° 31.8' W Depth 9942 corrm

Core condition moist ; good Date Described 4/23/74 by B McGirr

Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

0-31
MISSING

31-54
HLY CALC CLAY WITH PYRITE
5Y 3/2 dk olive gray
1 patch of mottling, below unit at 50 cm
firm silty lutite
color variations within unit, hint of horizontal lams
31-40 cm void
S irregular

54-147
HLY CALC CLAY WITH PYRITE
5Y 4/2 olive gray
scattered throughout, mottling dk olive gray
firm silty lutite
gypsum crystals
S irregular

147-850
HLY CALC CLAY
5Y 4/3, 4/4 olive gray
firm silty lutite
Note; The remainder of this core to 795 cm has vertical layers, usually with one color along the edges and a secon color an the inside. There is a sl texture variation across this contact. From this, it is concluded that the rest of the core is most probably suck up.

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

Ship: Atlantis Core No. 13PC

Expedition 240 Station No. 13

Leg No. _____ Total Core Length 850 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
18	41 cm	hly calc clay with pyrite	4	3		tr	50	3	6	1		15			tr
20	100 cm	hly calc clay with pyrite	15			tr	47	4	8	1		15			
4	200 cm	hly calc clay	12	3		tr	51	3	6	1		20			
4	375 cm	hly calc clay	4	tr		tr	63	2	10	2		15			
5	600 cm	hly calc clay	5	4		tr	56	4	5	1		20			
7	849 cm	hly calc clay	8	3		2	52	5	10	1		12			

VISUAL CORE DESCRIPTION

Page 1 of 1

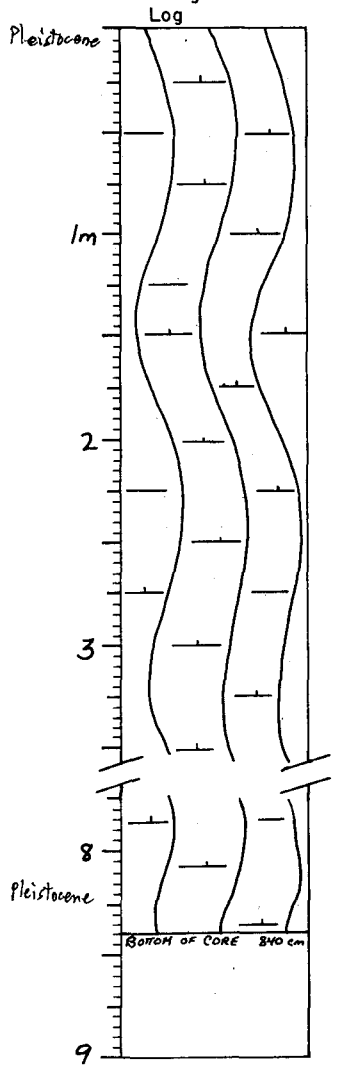
Ship A Cruise 240 Leg ____ Sta. 14 Core No. 14PC

Total Length 840 cm. Lat. 10° 55.2'N Long. 65° 32.2'W Depth 385 corr m

Core condition mostly good Date Described 4/23/74 by B McGirr

Physiographic location N. Slope, Caciaco Trench

Lithologic Log



Detailed Description

Note; Section 7 was originally measured incorrectly, it's length being recorded as 20 cm too long. Therefore, all the lower recorded depths are 20 cm too deep. The core sections have not been remeasured and relabelled because (1) the difference is only 20 cm, and (2) the entire core is homogeneous and most probably all suck up

0-840
HLY CALC CLAY TO CALC OOZE
5Y 4/2 olive gray
firm silty lutite
10-51 cm missing. sl color variations within unit, usually as vertical streaks mostly v. homogeneous, with several patches of siltier lutite- bottom 5 cm dk and silt ier than rest of core
S

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

Ship: Atlantis Core No. 14 PC

Expedition 240 Station No. 14

Leg No. _____ Total Core Length 840 cm

Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand				Clay	Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards		Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	52 cm	hly calc clay	5	2		tr	58	3	5			20			
8	300 cm	hly calc clay	7	3		tr	55	3	4	tr		20			
7	500 cm	calc ooze	6	2		1	50	3	6	tr		25			
5	839 cm	calc ooze	8	6		1	30	5	15	tr		30			

VISUAL CORE DESCRIPTION

Page 1 of 1

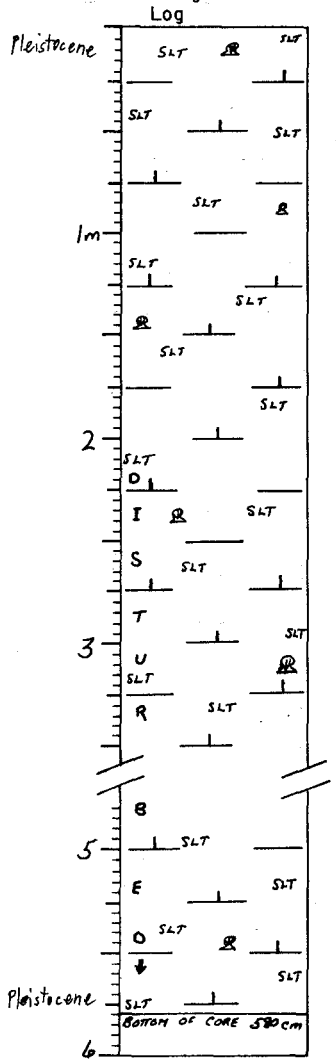
Ship A Cruise 240 Leg ____ Sta. 15 Core No. 15 PC

Total Length 580 cm. Lat. 10° 52.5'N Long. 65° 08.0'W Depth 354 corr m

Core condition dry to fairly moist; fair Date Described 4/24/74 by B McGirr

Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

0-580

HLY CALC CLAY/DET OR HLY CALC CLAY WITH DET
7.5Y 4/2 olive gray
moist sections show scattered mottles, sl lt or dk olive gray than surrounding sediment
small shells and shell fragments scattered throughout core
small claw (?) fragments at bottom of core, moist sections of core have v. small white specks throughout; may be some mineral such as gypsum or chalcedony-scattered in most of core, abunt. in section 7
S
Note; The entire core appears homogeneous, except for differences in the amount of desiccation from section to section. There is no apparent evidence for or against suck up. Core somewhat disturbed from 210-580 cm.

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

Ship: Atlantis Core No. 15PC

Expedition 240 Station No. 15

Leg No. _____ Total Core Length 580 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
8	1 cm	hly calc clay/ det	45	2		1	23	1	5	tr		15			
8	200 cm	hly calc clay with det	20	2		tr	40	1	8	1		20			
5	400 cm	hly calc clay /det	60	2		tr	10	tr	2	1		20			
5	579 cm	hly calc clay/det	55	1		tr	15	1	3			20			

VISUAL CORE DESCRIPTION

Page 1 of 2

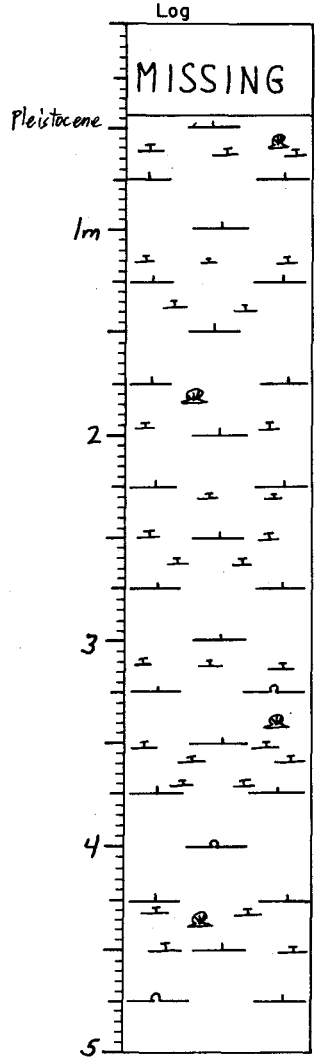
Ship A Cruise 240 Leg ____ Sta. 16 Core No. 16 PC

Total Length 715 cm. Lat. 10° 38.7' N Long. 65° 04.5' W Depth 914 CORR m

Core condition moist; very good Date Described 4/24/74 by B McGirr

Physiographic location Saddle area between two main basins, Cariaco Trench

Lithologic Log



Forams inc

Detailed Description

0-43
MISSING

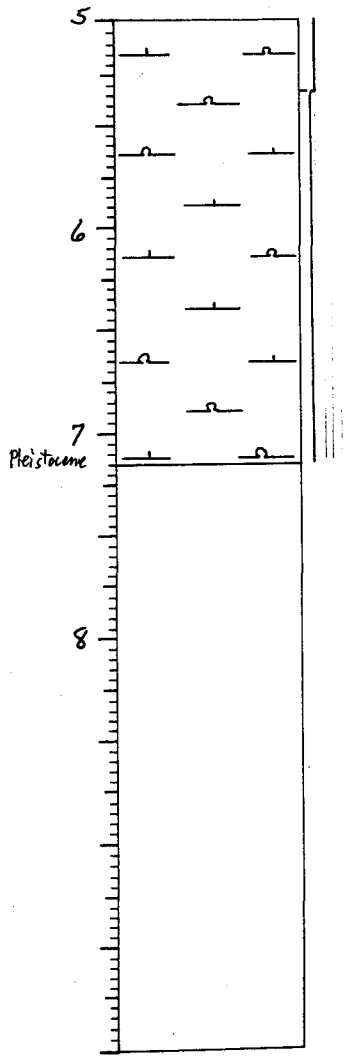
43-533
CALC OOZE TO CALC SILIC OOZE
5Y 3/2 dk olive gray
firm silty lutite, forams common at top to few at bottom
shell fragments and pteropods scattered throughout unit-
sl color changes from section to section, 1 mm to 1/2 cm thick horizontal foram sand layers at 58 cm, 116, 135, 194, 218, 245, 259, 312, 353, 359, 368, 430, 447, cm-
0-126 cm, unit is homogeneous, 260-533 cm, unit composed of v. fine, faint, horizontal lams
S

533-715
SILIC CALC OOZE
5Y 4/3 and 4/4 olive
firm sl silty lutite, no forams
v. fine, horizontal lams throughout unit, in a varve-like pattern, occassional lengths of homogeneous sediment
S

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ___ Sta. 16 Core No. 16 PC

Lithologic Log



Detailed Description

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

Ship: Atlantis Core No. 16PC

Expedition 240 Station No. 16

Leg No. ___ Total Core Length 715 cm

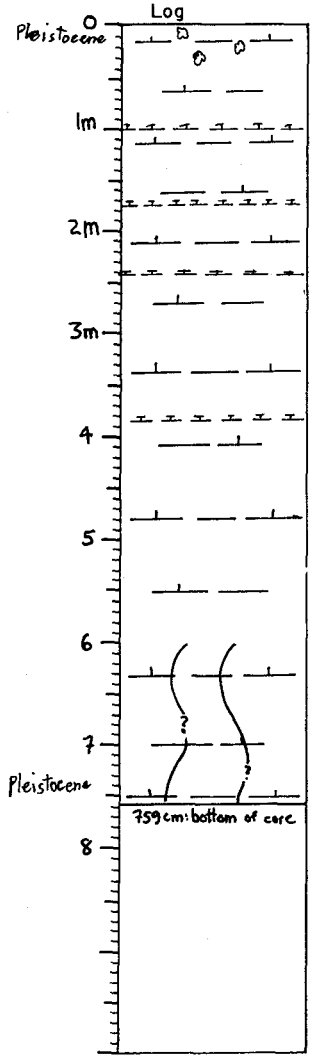
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
7	44 cm	calc ooze	4	3		3	35	4	31	tr		8	3		2
5	250 cm	calc ooze	5	3		2	40	5	19	5		12	3		1
2	500 cm	calc silic ooze	4	3		1	30	3	20	1	tr	12	20		4
tr	600 cm	silic calc ooze	5	2		1	25	2	10	1		12	40		2
1	714 cm	silic calc ooze	5	3		1	26	2	10	3		15	30		4

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 240 Leg ___ Sta. 17 Core No. 17PC
Total Length 759 cm. Lat. 10° 32.6' N Long. 64° 51.2' W Depth 1348 m CORR.
Core condition fair to good Date Described 25 APR 74 by G MOUNTAIN
Physiographic location CARIACO TRENCH

Lithologic Log



Detailed Description

Note; core ~~stored without liners~~; sediment changed shape and length as it dried out. measurements now hly inaccurate.

0-600
HLY CALC CLAY
5Y 3/2 dk olive gray
oval mottles, olive gray 5Y 4/2 0-30 cm
firm, moist lutite with silty/sandy layers
grayish brown foram sand layers throughout core, esp. 0-400 cm, sometimes graded white/pale olive authigenic (?) crystals; mottling, scattered at bottom of core.

600-759
Possible flow in; sturctureless except for a few vertical stripes of silty white mineral (authigenic?)

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

Ship: Atlantis Core No. 17PC
Expedition 240 Station No. 17
Leg No. ___ Total Core Length 759 cm

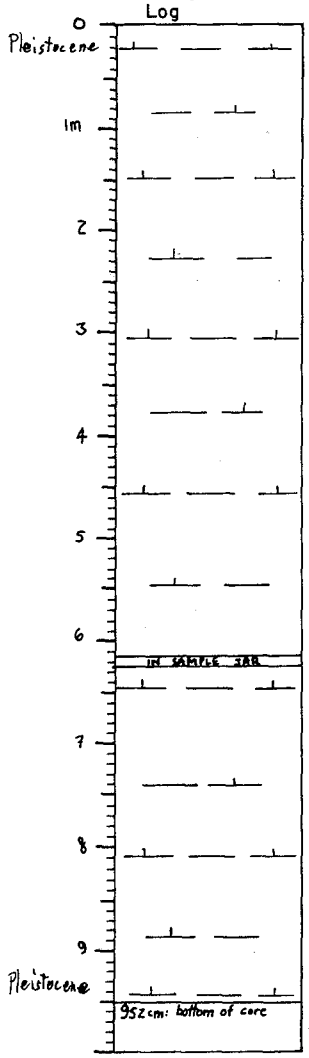
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15	2 cm	hly calc clay	10				54	1	15			5			tr
2	100 cm	foram sand	10				8	75	5						
10	300 cm	hly calc clay	10				50	5	20			5			tr
10	500 cm	hly calc clay with det	20				40	10	10			10	tr	tr	tr
10	758 cm	hly calc clay with det	20				40	5	15			10			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 240 Leg ___ Sta. 18 Core No. 18PC
Total Length 952 cm. Lat. 10° 30.8' N Long. 64° 40.0' W Depth 1370 m corr.
Core condition fairly moist, crumbled, good Date Described 24 APR '74 by G MOUNTAIN
Physiographic location EAST BASIN, CARIACO TRENCH

Lithologic Log



Detailed Description

0-952
HLY CALC CLAY
5Y 4/2 olive gray
moist, firm silty luti te, forams scattered to common, abunt. in places
scattered gypsum crystals; occasional silty layers; faint variations in color-olive and dk olive gray, other-wise homogeneous, structureless

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

Ship: Atlantis Core No. 18PC
Expedition 240 Station No. 18
Leg No. ___ Total Core Length 952 cm

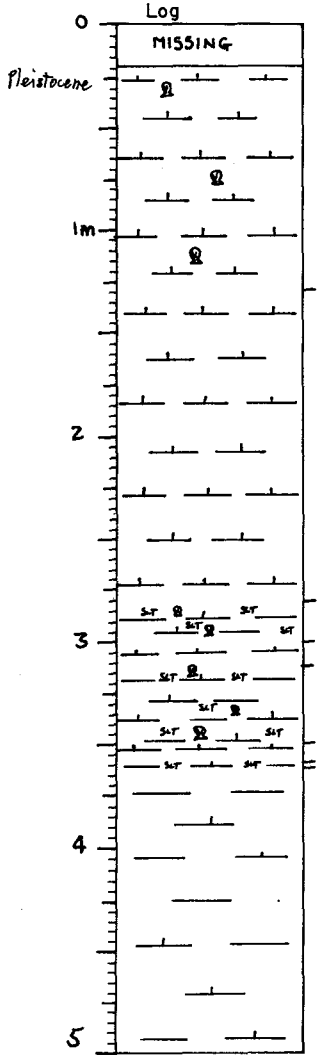
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15	1 cm	hly calc clay	3				59	3	15		tr	5	tr		tr
15	300 cm	hly calc clay	3				59	3	15			5	tr		tr
15	600 cm	hly calc clay	3				59	3	15			5			tr
10	950 cm	hly calc clay	3				64	3	15			5			

0100

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 19 Core No. 19PC
Total Length 612 cm. Lat. 10°22.3'N Long. 64°42.5'W Depth 177m Corr.
Core condition good Date Described 18 APRIL 74 by G MOUNTAIN
Physiographic location INSHORE END, EAST BASIN, CARIACO TRENCH

Lithologic Log



Detailed Description

0-19
MISSING
Note; sediment was stored some time without liner; changed shape; measurements somewhat inaccurate.

19-130
CALC OOZE
5Y 3/3 dk olive
firm, moist silty lutite, common forams, pteropods, gastropods
occasional gypsum crystals
G

130-281
CALC OOZE
5Y 5/2 olive gray
moist silty lutite
more pronounced than the color change from the above unit is the near absence of shell fragments

281-301
HLY CALC CLAY/DET
5Y 4/2 olive gray
dry, firm silt; scattered shell fragments
S convex upward

301-312
CALC OOZE
5Y 5/2 olive gray
moist firm, silty lutite
silty inclusions
S irregular

312-351
HLY CALC CLAY/DET
5Y 4/2 olive gray
dry firm silt, pteropod, gastropod fragments, common increasing downwards
S irregular

351-359
CALC OOZE
5Y 5/3 olive
moist sl silty lutite
smooth, homogeneous
S inclined 15°

359-362
HLY CALC CLAY/DET
5Y 4/2 olive gray
dry firm silt, shell fragments
S inclined 15°

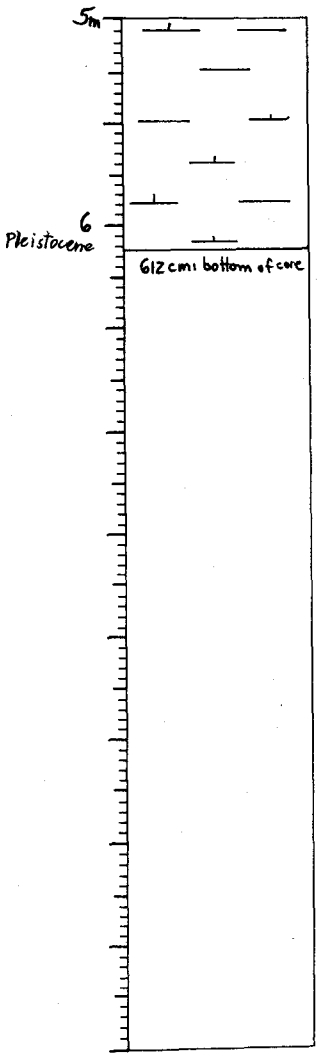
362-612
CALC CLAY
5Y 5/3 olive
moist sl silty lutite
smooth, homogeneous except for gypsum crystals, esp. in section 1, 522-612 cm and occassional black pyrite concentrations

0101

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 19 Core No. 19PC

Lithologic Log



Detailed Description

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

Ship: Atlantis Core No. 1980

Expedition 240 Station No. 19

Leg No. _____ Total Core Length 612 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
10	20 cm	calc ooze	10	1			37	15	15	2		10			
10	250 cm	calc ooze	10	tr			48	10	15	2		5			
5	345 cm	hly calc clay/ det	50				25	5	5	10					
5	375 cm	calc clay	5	5			70	tr	10			5			
5	610 cm	calc clay	5	2			73		10			5			

VISUAL CORE DESCRIPTION

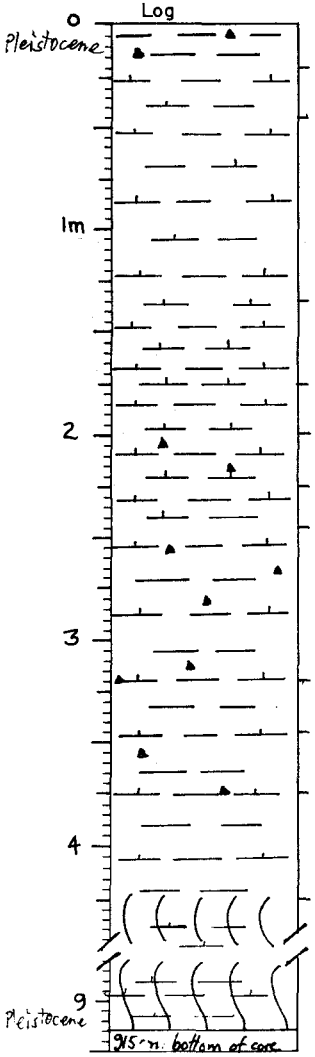
Ship A Cruise 240 Leg ____ Sta. 20 Core No. 20PC

Total Length 915 cm. Lat. 10°24.0'N Long. 64°41.2'W Depth 822 m Corr.

Core condition good to poor; flow in below 425 cm Date Described 17 April '74 by G Mountain

Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

Note
core was stored without liners; measurements now inaccurate (i.e, section 10, 1-45 cm, now in 28 cm liner

1-20
UNFOSS CLAY WITH PYRITE
5Y 4/1 dk gray
lithified lutite, fragmented
white crystals abunt. on surface of this dry unit (salt?) (gypsum?)
obscured bottom contact

20-45
CALC CLAY
5Y 6/3 pale olive
lithified lutite, fragmented
pteropods visible .. bottom of section 10

45-55
CALC CLAY
5Y 5/3 olive
moist silty lutite
homogeneous except for black specks
sampled

55-60
SAMPLED

60-135
CALC CLAY
2.5Y 4/4, 5/3 olive brown and olive
dry firm silty lutite
distorted lams characterize this unit; well preserved to 100 cm, fragmented below that

135-175
HLY CALC CLAY
5Y 5/3 olive
moist silty lutite
homogeneous
S irregular

175-200
HLY CALC CLAY
2.5Y 5/2 grayish brown
moist silty lutite
S irregular

200-225
HLY CALC CLAY WITH PYRITE
5Y 4/1 dk gray
moist silty lutite
gypsum crystals throughout

225-245
CALC CLAY
2.5Y 5/2 grayish brown
d. gray vague mottling
moist silty lutite
S irregular

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 20 Core No. 20PC

Lithologic Log

Detailed Description

245-320
CALC CLAY WITH PYRITE
5Y 4/1 dk gray
firm silty lutite
somewhat dry and crumbled.white, calc worm tubes, cemented in a cluster, 290 cm
G

320-345
CALC CLAY
2.5Y 5/2 grayish brown
firm silty lutite
vague bottom contact

345-375
CALC CLAY WITH PYRITE
5Y 4/1 dk gray
firm silty lutite
abunt. white crystals (gypsum?) beginning in this unit top of section 6 and continuing downwards
S inclined 45°

375-425
CALC CLAY
5Y 5/1 gray
variegated mottles, discolorations show that disturbance begins as high as 375 cm
firm silty lutite

425-915
HLY CALC CLAY
5Y 5/3 olive
flow in

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

Ship: Atlantis Core No. 20PC

Expedition 240 Station No. 20

Leg No. ____ Total Core Length 915 cm

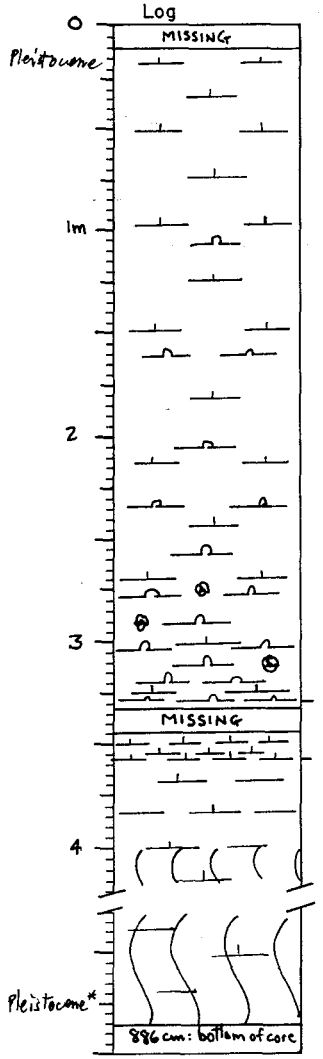
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
30	2 cm	unfoss clay with pyrite	20				48		tr			2			
5	50 cm	calc clay	10				70	tr	13	tr		2			
20	220 cm	highly calc clay with pyr.	15				42	tr	20			3			
15	420 cm	calc clay	10			t r	60		13			2			
10	910 cm	hly calc clay	5				55	5	20			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 240 Leg ____ Sta. 21 Core No. 21PC
Total Length 886 cm. Lat. 10°26.2'N Long. 64°41.5'W Depth 980 m corr.
Core condition good down to 4m Date Described 23 APR 74 by GROUNTAIN
Physiographic location Lowest Part, Landward Slope of E. Basin – CARIACO TRENCH

Lithologic Log



Detailed Description

0-10
MISSING
10-330
CALC OOZE GRADES TO SILIC CALC OOZE
5Y 4/2 olive gray
275-330 cm fine black mottles (pyrite?)
compact, moist lutite, somewhat fragmented at top
v. faint olive lams below 100 cm, dk olive gray layering at bottom of unit.
S
330-333
CALC OOZE
5Y5/1 gray
333-345
MISSING
345-358
CALC OOZE
5Y 5/1 gray
firm moist lutite
appears to be continuation of above unit, considerable white surficialdiscoloration (secondary?), gypsum crystals
G
358-400
HLY CALC CLAY
2.5Y 5/4 lt olive brown
moist firm lutite, homogeneous
hard to say where flow in begins; hly irregular olive, chalky inclusion with dk gray pyrite-rich sediment also, 410-415 cm, obviously below the beginning of the suck up
400-886
FLOW IN

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

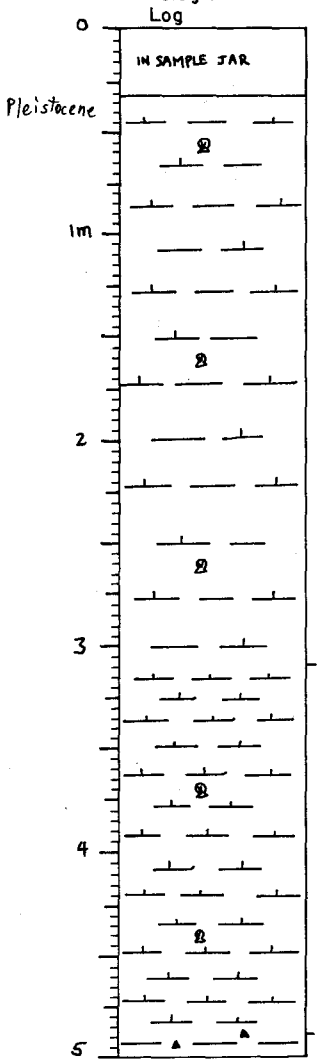
Ship: Atlantis Core No. 21PC
Expedition 240 Station No. 21
Leg No. ____ Total Core Length 886 cm

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
10	20 cm	calc ooze	5				47	3	25			10			
10	200 cm	calc ooze	10				44	10	20			5	1		tr
10	315 cm	silic calc ooze					44	1	20			5	40		
15	347 cm	calc ooze	5				44	1	30			5			
2	385 cm	hly calc clay	5	15?			58		5			15			
1	412 cm	det calcite	99 (calcite)												

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ___ Sta. 22 Core No. 22PC
Total Length 580 cm. Lat. 10° 34.0'N Long. 64° 41.8'W Depth 1281 m Corr.
Core condition fair to poor; dry + disturbed Date Described 23 APR 74 by G Mountain
Physiographic location CARIACO TRENCH

Lithologic Log



Detailed Description

0-32
IN SAMPLE JAR
core v. dry and fragmented; was stored without liner, measurements inaccurate

32-310
HLY CALC CLAY
5Y 3/1, 6/2 v. dk gray. gray grades to lt olive gray
white irregular inclusions, probably secondary
hard, fragmented lutite, forams common, scattered shell fragments
dk color (only at top of each section) probably due to moisture from oasis, v. fine pale/olive lams visible at 80 cm; due to poor core condition no others are apparent but "schistose" texture of core indicates finely lamed sediment throughout; scattered gypsum crystals.

310-490
CALC OOZE
5Y 3/2 dk olive gray
extensive mottling pale yellow, surficial mottles, (secondary 430-470 cm
firm moist, silty lutite, forams common, with pterepods and gastropod fragments
numerous v. dk gray sharp lam 350-400 all concave upwards which indicate that this section might be upside down; rust colored fine sand in an irregular inclusion 475-485 c

490-525
UNFOSS CLAY/PYRITE
10YR 4/2 dk grayish brown
white secondary surficial mottling
firm moist lutite
variegated colors, gray and brown
S irregular

525-527
UNFOSS CLAY/PYRITE
2.5Y 5/2 grayish brown
firm moist silty lutite
S irregular

527-530
UNFOSS CLAY/PYRITE
5Y 5/1 gray
firm, moist silty lutite
S irregular

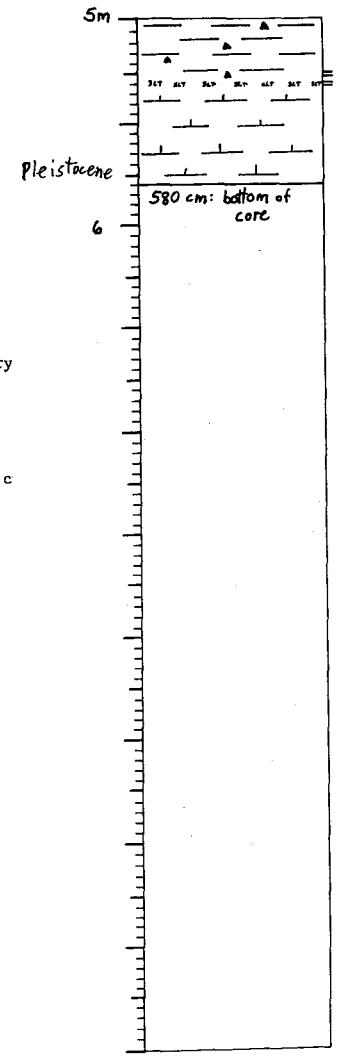
530-532
DETRITAL SILT
2.5Y 5/4 lt olive brown
dry coarse silt
S, H

532-580
CALC OOZE
10YR 5/4 yellowish brown
firm moist lutite
faint dk gray layers

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ___ Sta. 22 Core No. 22PC

Lithologic Log



Detailed Description

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

Ship: Atlantis Core No. 22PC

Expedition 240 Station No. 22

Leg No. _____ Total Core Length 580 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
10	1 cm	calc ooze	5				40	25		5		15			tr
10	33 cm	hly calc clay					65	5	15			5			tr
10	130 cm	hly calc clay	tr				60	10	15	tr		5			
10	300 cm	hly calc clay	10	2			48	10	15	tr		5			tr
10	480 cm	calc ooze	5				30	5	35	10		5			tr
30	520 cm	unfoss clay/ pyrite	10				60								
	531 cm	det silt	100												
5	575 cm	calc ooze	10				45	10	20			10			

VISUAL CORE DESCRIPTION Page 1 of 2

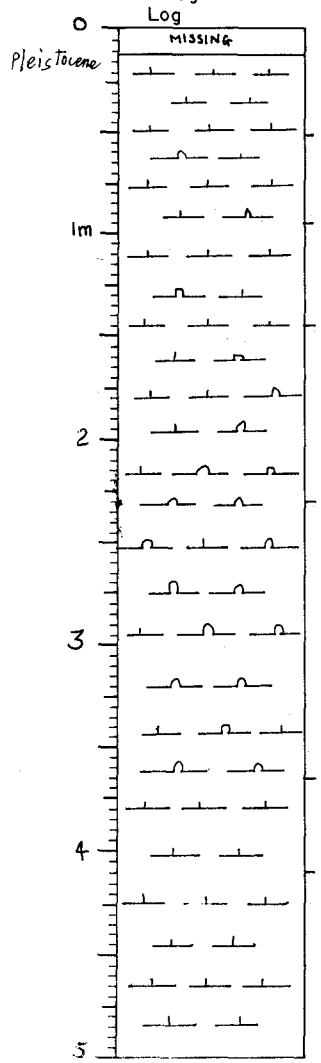
Ship A Cruise 240 Leg ____ Sta. 23 Core No. 23PC

Total Length 909 cm. Lat. 10°47.2'N Long. 64°39.6'W Depth 278 m Corr.

Core condition fair to good Date Described 19 APRIL '74 by G MOUNTAIN

Physiographic location MAIN BASIN, CARIACO TRENCH

Lithologic Log



Detailed Description

0-12
MISSING
split core was stored without liner; sections have shrunk (or have been sampled) and measurements are inaccurate, almost all sections now have a gap.

12-52
CALC OOZE
5Y 5/2 olive gray
olive brn. secondary, surficial discolorations
hard, fragmented lutite, abunt. forams, scattered shell fragments

52-95
CALC OOZE
5Y 3/2 dk olive gray
hard, fragmented lutite, abnt. forams, scattered shell fragm
probably same stratigraphic unit as above and below; color change due to differential drying
sampled?

95-110
VOID

110-145
CALC-SILIC OOZE
5Y 5/2 olive gray
olive brown discoloration
hard, fragmented lutite, abunt. forams, scattered shell fragments

145-230
CALC-SILIC OOZE GRADES TO SILIC-CALC OOZE
5Y 3/2 dk olive gray
fragmented but moist, v. sl silty lutite, pteropods visible
homogeneous except for gypsum crystals concentrated in pockets
G

230-365
SILIC-CALC OOZE
5Y 4/2 olive gray
moist, sl silty lutite
finely lam. throughout with white 5Y 8/2 to lt gray 7/2 to lt olive gray 6/2, especially intense 250-275 cm

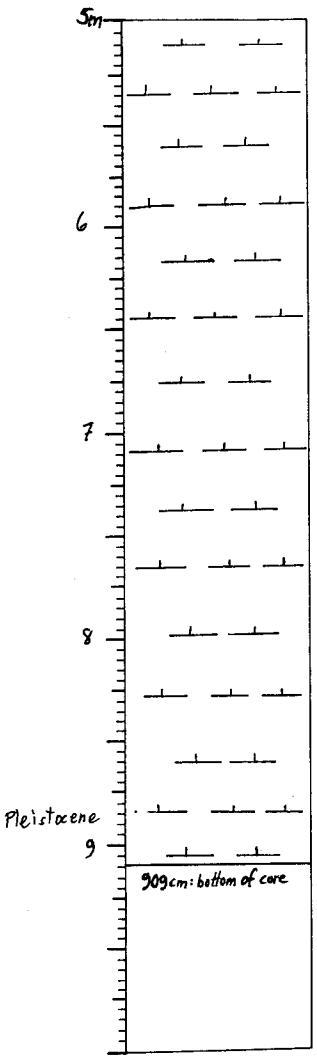
365-410
CALC OOZE
5Y 5/2 olive gray
dry, fragmented sl silty lutite, gastropod fragments and whole shells
sampled?

410-420
VOID

VISUAL CORE DESCRIPTION

Ship A Cruise 240 Leg ____ Sta. 23 Core No. 23 PC

Lithologic Log



Detailed Description

420-909
CALC OOZE
5Y 3/2 dk olive gray
fragmented but moist silty lutite, gastropod fragments scattered throughout
several claw fragments (crabs?) 440 cm, white gypsum (?) crystals concentrated 650-670 cm, 730 cm, single v. sharp white lam , inclined 45° 560 cm.

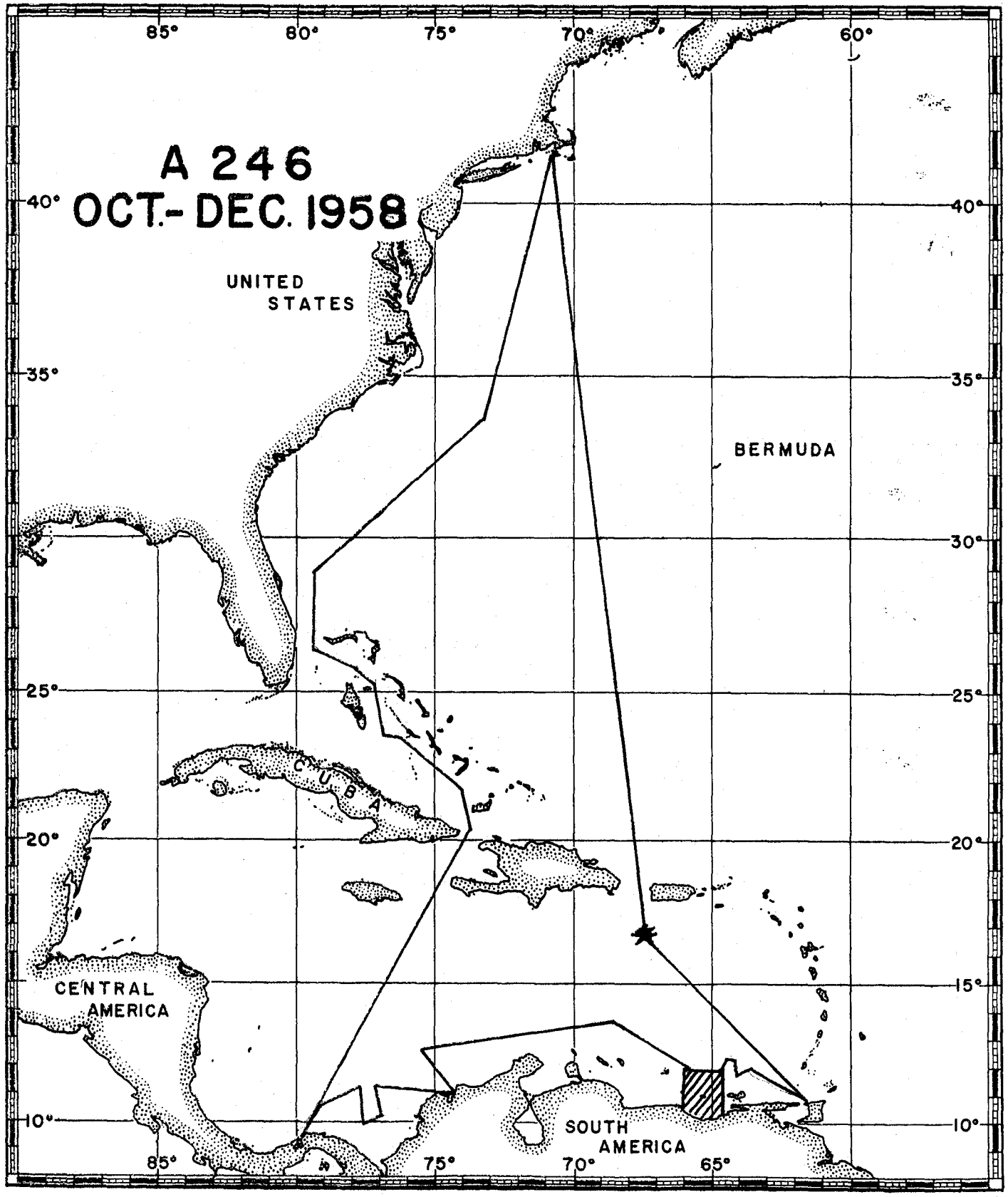
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Atlantis Core No. 23 PC

Expedition 240 Station No. 23

Leg No. ____ Total Core Length 909 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
5	13 cm	calc ooze	5				51	10	20	3		5	tr	tr	1	
10	60 cm	calc ooze	5				39	10	25	3		5	2	tr	1	
10	150 cm	calc ooze	5				41	10	25	3		5	1		tr	tr
2	200 cm	silic-calc ooze	tr				39	5				1	50	tr	3	tr
2	260 cm	silic-calc ooze	tr				16	1	5	tr		tr	75		1	tr
2	400 cm	calc ooze	10				23	10	15	30		10				
15	550 cm	calc ooze	5				44	5	25			5	1			tr
	862 cm		some kind of mineral (chalcedony?)													
20	908 cm	calc ooze with pyrite					50	5	20			5				


A 246
OCT.- DEC. 1958
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 OF 1

********** DATE: 06:32 MAY 13,1975 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	246	0	0062	0000	15	581112	10.413N	64.400W	5	43.04	0024	342.	653.	0000	19	3479	0	
ATL	246	0	0062	0000	26	581112	10.413N	64.400W	5	43.04	0024	342.	0.	0061	19	3555	0	
ATL	246	0	0063	0000	15	581112	10.570N	64.385W	5	43.04	0025	338.	1027.	0000	19	4029	0	
ATL	246	0	0063	0000	26	581112	10.570N	64.385W	5	43.04	0025	338.	0.	0088	19	4029	0	
ATL	246	0	0064	0000	15	581114	10.060N	67.190W	5	43.07	0026	737.	582.	0000	19	4859	0	
ATL	246	0	0064	0000	26	581114	10.060N	67.190W	5	43.07	0026	737.	0.	0084	19	4859	0	
ATL	246	0	0065	0000	15	581115	11.010N	67.160W	5	43.17	0027	897.	614.	0000	19	3859	0	
ATL	246	0	0065	0000	26	581115	11.010N	67.160W	5	43.17	0027	897.	0.	0087	19	3859	0	
ATL	246	0	0066	0000	15	581114	11.280N	67.130W	5	43.17	0028	1935.	923.	0000	19	4355	0	
ATL	246	0	0066	0000	26	581114	11.280N	67.130W	5	43.17	0028	1935.	0.	0099	19	4355	0	
ATL	246	0	0068	0000	15	581115	12.340N	68.290W	5	43.28	0029	3210.	694.	0000	19	3355	0	
ATL	246	0	0068	0000	26	581115	12.340N	68.290W	5	43.28	0029	3210.	0.	0091	19	3355	0	
ATL	246	0	0069	0000	15	581115	12.100N	68.290W	5	43.28	0030	1499.	512.	0000	19	3355	0	
ATL	246	0	0069	0000	26	581115	12.100N	68.290W	5	43.28	0030	1499.	0.	0095	19	3569	0	
ATL	246	0	0070	0000	15	581116	11.470N	68.300W	5	43.18	0031	1803.	108.	0000	19	3359	0	
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ATL	246	0	0071	0000	26	581116	11.255N	68.300W	5	43.18	0032	347.	0.	0071	19	4425	0	
ATL	246	0	0214	0000	26	581120	11.150N	71.350W	5	44.11	0033	18.	0.	0110	19	2255	0	
ATL	246	0	0215	0000	26	581121	11.265N	71.365W	5	44.11	0034	24.	0.	0063	19	2255	0	
ATL	246	0	0216	0000	26	581121	11.340N	71.355W	5	44.11	0035	22.	0.	0028	19	8855	0	
ATL	246	0	0217	0000	26	581121	11.460N	71.130W	5	44.11	0036	18.	0.	0087	19	1155	0	
ATL	246	0	0218	0000	26	581121	11.460N	71.050W	5	44.11	0037	16.	0.	0087	19	1155	0	
ATL	246	0	0219	0000	26	581121	11.450N	70.490W	5	44.10	0038	37.	0.	0055	19	2255	0	

THERE WERE 23 ITEMS THAT MET YOUR REQUIREMENTS.

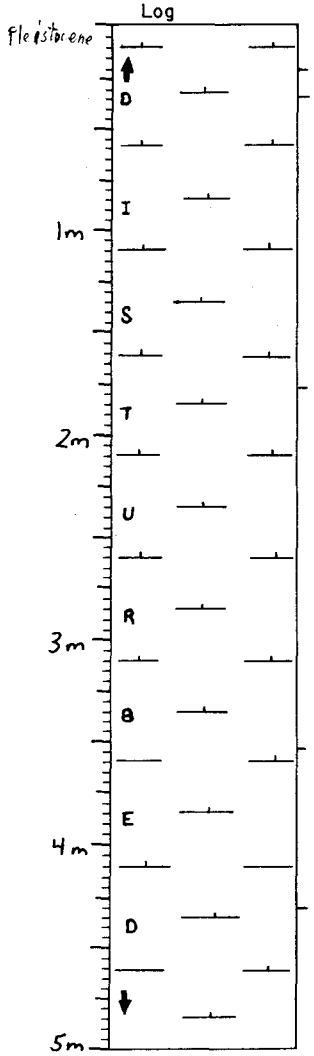
THANK YOU FOR USING PROGRAM MUDDIE.

STOP THAT IS ALL FOR NOW
RUN

VISUAL CORE DESCRIPTION

Ship A Cruise 246 Leg ___ Sta. 62 Core No. 24 PC
Total Length 653 cm. Lat. 10° 41.3'N Long. 64° 40.0'W Depth 342 corr m
Core condition very dry; poor Date Described 4/13/74 by B McGirr
Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

Note; This entire core is disturbed, v. dry and crumbly throughout. Description is nearly meaningless due to the poorcondition. Obvious stratigraphic units coincide predominantly with section lengths, suggesting that they are artifical contacts brought about only by differing amounts of desiccation from section to section. conversely, true stratigraphic changes may be masked by the core's present crumbly condition. The core description done shortly after the core was taken is included here also to better indicate the nature of the core.

"The sediment of the upper 73 cm of core 24 is composed primarily of a hly fossiliferous, finely lamed, grayish olive silty clay. Between 73 and 77 cm there is a coarser zone of lt grayish olive, homogeneous, extremely fossiliferous sandy silt. Below 77 cm the sediment is essentially uniformly homogeneous, moderately fossiliferous, dk grayish olive silty clay. This extends to the bottom of the core at approximately 691 cm." This is probably a much better description of the sediment in core 24 PC. One possible explanation of the difference in total length is that the original description considered the piston core to start at about 40 cm, since correlation with the pilot core suggested the upper 40 cm of the piston core were lost The core has since been remeasured, considering the top of the core to be at 0 cm.

0-20
CALC OOZE
5Y 3/1 v. dk gray
silty lutite;core too dry and disturbed to permit visual approximation of foram content
0-5 cm missing; entire core disturbed, crumbly
S irregular

20-34
CALC OOZE
5Y 4/3, 7/2 olive and lt gray
silty lutite
thin, sl concave up lams of the 2 colors
S irregular

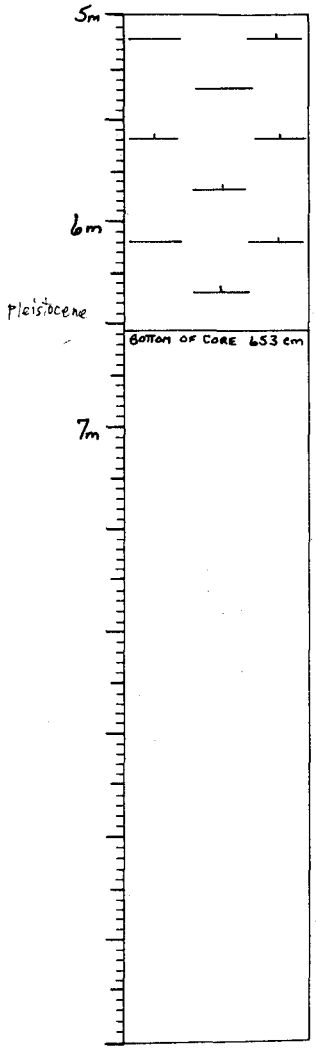
34-177
CALC OOZE
5Y 4/2 olive gray
silty lutite
especially crumbly 90-160 cm
S bottom of section 7

177-353
CALC OOZE
5Y 3/2 dk olive gray
silty lutite
somewhat moister than most of core
S bottom of section 5

VISUAL CORE DESCRIPTION

Ship A Cruise 246 Leg ___ Sta. 62 Core No. 24PC

Lithologic Log



Detailed Description

353-430
HLY CALC CLAY
5Y 4/2 olive gray
silty lutite
v. dry, crumbly
S bottom of section 4

430-653
HLY CALC CLAY
5Y 3/2 dk olive gray
silty lutite
section 2 relatively moist, section 3 crumbly, section 1 v. dry and crumbly; vertical layer extends from 560 cm to 620 cm, where core is too crumbly to follow, if this is real, it indicates suck up in bottom 90 cm.
S
end of core

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

Ship: Atlantis Core No. 24 PC

Expedition 246 Station No. 62

Leg No. _____ Total Core Length 653 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
1	6 cm	calc ooze	10	3		tr	47	5	30		tr	3	tr		1
tr	300 cm	calc ooze	5	3		tr	45	10	34			1	1		1
	550 cm	hly calc clay	5	3		1	70	3	14			3			1
1	652 cm	hly calc clay	8	5		1	65	4	12			2	1		1

VISUAL CORE DESCRIPTION

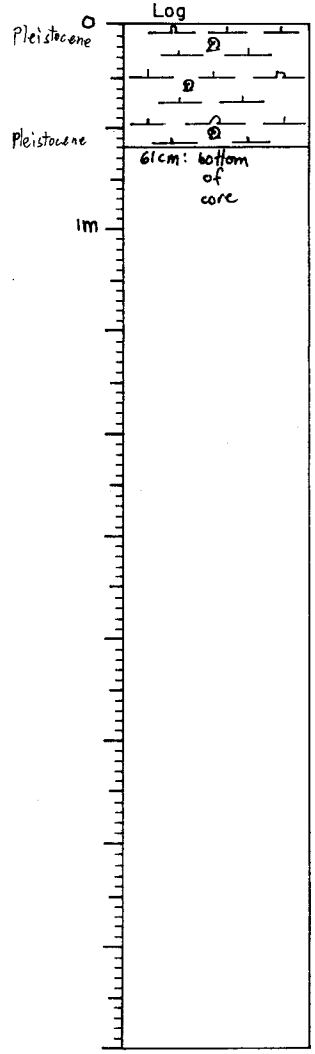
Ship A Cruise 246 Leg ____ Sta. 62 Core No. 24 PG

Total Length 61 cm. Lat. 10°41.3'N Long. 64°40.0'W Depth 342 m corr.

Core condition dry, fair Date Described 6 MAY 74 by G Mountain

Physiographic location CARIACO TRENCH

Lithologic Log



Detailed Description

0-61
CALC SILIC OOZE
5Y 6/2 lt olive gray
dry, hard, and crumbling with mollusc shells and fragments and forams scattered throughout
apparently all one unit
end of core

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

Ship: Atlantis Core No. 24 PG

Expedition 246 Station No. 62

Leg No. _____ Total Core Length 61 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
15	1 cm	calc silic ooze	5				36	15	15			10	2		2
15	60 cm	calc silic ooze	5				40	10	10			10	2	1	2

VISUAL CORE DESCRIPTION Page 1 of 1

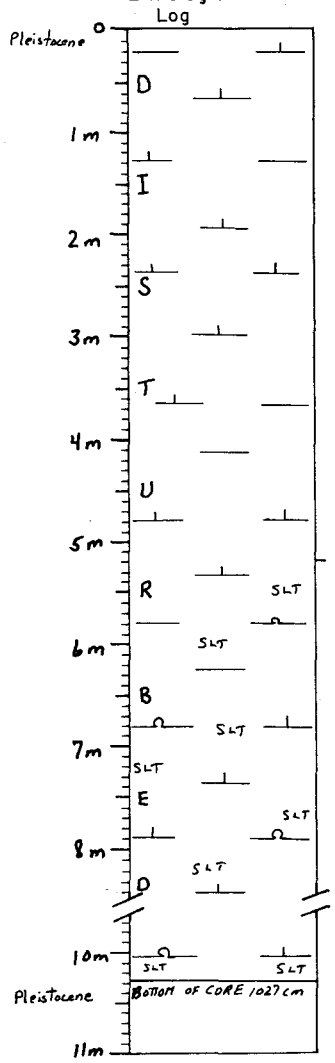
Ship A Cruise 246 Leg ____ Sta. 63 Core No. 25 PC

Total Length 1027 cm. Lat. 10° 57.0'N Long. 64° 38.5'W Depth 338 corr m

Core condition very dry; poor Date Described 4/14/74 by R M°Gill

Physiographic location Cariaco Trench

Lithologic Log



Detailed Description

Note; This entire core is v. dry, hard, and cracked. It is disturbed throughout. Original stratigraphic units are probably concealed by the poor conditionand in other places it is broken by many nearly horizontal desiccation cracks. Core contaminated with aluminum foil in places.

0-520
HLY CALC CLAY
5Y 5/2, 4/2 olive gray
v. silty lutite, core too dry and disturbed to permit visual approximation of foram content
v. crumbly throughout, appears to have a lot of organic matter; 0-25 cm sampled

520-1027
HLY CALC SILIC CLAY WITH DET TO CALC SILIC OOZE WITH DET
5Y 6/2 lt olive gray
silty lutite
many desiccation cracks, appears to have some organic matter; faint, lt and dk 2 mm thick, lams appear in part of this unit
S
end of core

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

Ship: Atlantis Core No. 25 PC

Expedition 246 Station No. 63

Leg No. _____ Total Core Length 1027 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
4	26 cm	hly calc clay	10	tr		1	65	3	15			2	tr		tr
5	400 cm	hly calc clay	15	tr		2	56	2	15			5	tr		tr
4	600 cm	hly calc silic clay with det	25			1	47	tr	10			8	2		3
3	1026 cm	calc silic ooze with det	16			1	47	tr	13			5	12		3

VISUAL CORE DESCRIPTION

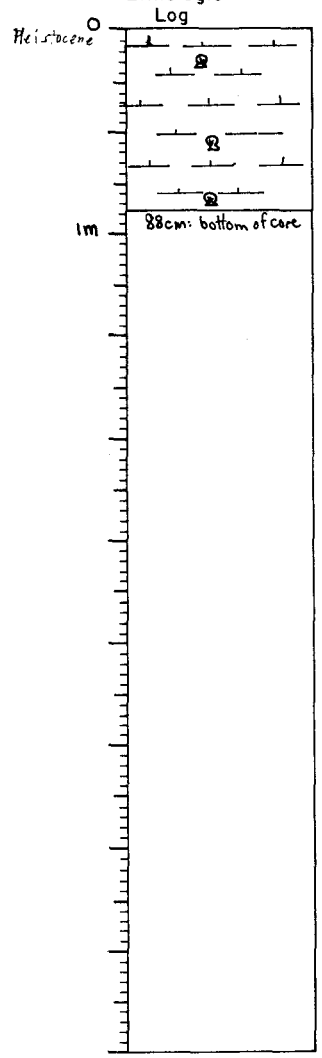
Ship A Cruise 246 Leg ____ Sta. 63 Core No. 25 PG

Total Length 88 cm. Lat. 10°57.0'N Long. 64°38.5'W Depth 338 m CORR

Core condition dry, crumbled, poor Date Described 6 MAY '74 by G MOUNTAIN

Physiographic location CARIACO TRENCH

Lithologic Log



Detailed Description

0-88
CALC OOZE
5Y 5/2 olive gray
dry, hard, crumbled silty lutite, mollusc fragments and forams scattered throughout
considerably less than 88 cm of sediment now remaining
end of core

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

Ship: Atlantis Core No. 25 PG

Expedition 246 Station No. 63

Leg No. _____ Total Core Length 88 cm

Site	LEVEL	SEDIMENT TYPE	ESTIMATED 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	1 cm	calc ooze	10				48	10	15			10	1	tr	1

VISUAL CORE DESCRIPTION

Page 1 of 1

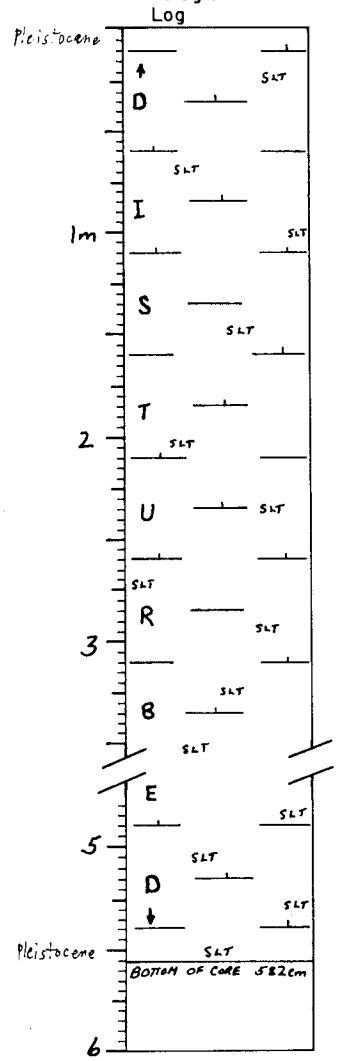
Ship A Cruise 246 Leg ____ Sta. 64 Core No. 26PC

Total Length 582 cm. Lat. 10° 06.0'N Long. 67°19'W Depth 737 corrm

Core condition very dry; poor Date Described 4/13/74 by B McGirr

Physiographic location Caribbean Sea, just off Venezuelan coast

Lithologic Log



Detailed Description

Note; This entire core is v. dry and hard. There are many desiccation cracks, all approximately on horizontal bedding planes. The core is somewhat disturbed throughout, and in places pieces of aluminum foil are stuck in the sediment. The core condition prohibits recognition of true stratigraphic units.

0-582
HLY CALC CLAY WITH DET
5Y 6/2, 5/2 lt olive gray to olive gray
silty lutite, core too dry to permit visual approximation of foram content.
core v. dry, disturbed throughout
S
end of core

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

Ship: Atlantis Core No. 26 PC

Expedition 246 Station No. 64

Leg No. _____ Total Core Length 582 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
1	1 cm	hly calc clay with det	20	2		2	58	4	10			3			tr
1	300 cm	hly calc clay with det	18	2		3	52	4	16			4			tr
2	581 cm	hly calc clay with det	20	2		1	57	3	13			2			

VISUAL CORE DESCRIPTION

Page 1 of 1

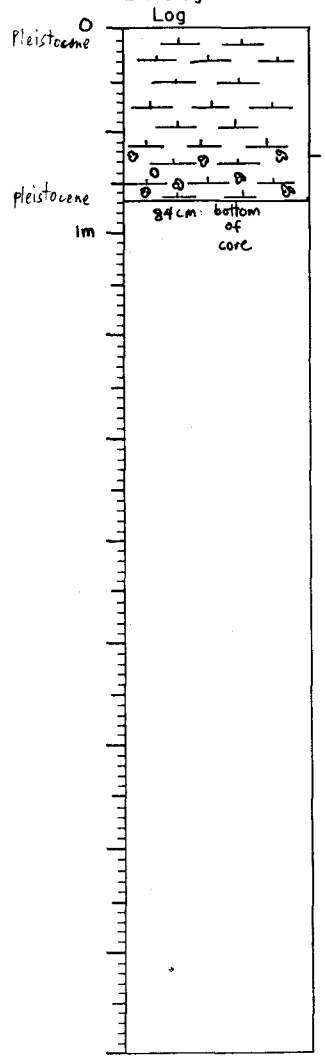
Ship A Cruise 246 Leg ____ Sta. 64 Core No. 26 PC

Total Length 84 cm. Lat. 10°06.0'N Long. 67°19'W Depth 737 m CORR.

Core condition dry; good Date Described 6 MAY, 74 by G MOUNTAIN

Physiographic location CARIBBEAN, JUST OFF VENEZUELAN COAST

Lithologic Log



Detailed Description

0-63
CALC OOZE
5Y 7/2 lt gray
dry, hard lutite, forams common
core dry and cracked, has shrunk about 10-15 cm
G

63-84
CALC OOZE
5Y 6/2 lt olive gray
extensive fine scale mottling, burrowing throughout, color of above unit
dry, hard lutite, forams common; compact
end of core

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

Ship: Atlantis

Expedition 240

Leg No.

Core No. 26 PG

Station No. 64

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 cm	calc ooze	5				50	15	10	tr		20			tr
5 cm	calc ooze	10	1?			49	10	10			15			

VISUAL CORE DESCRIPTION

Page 1 of 1

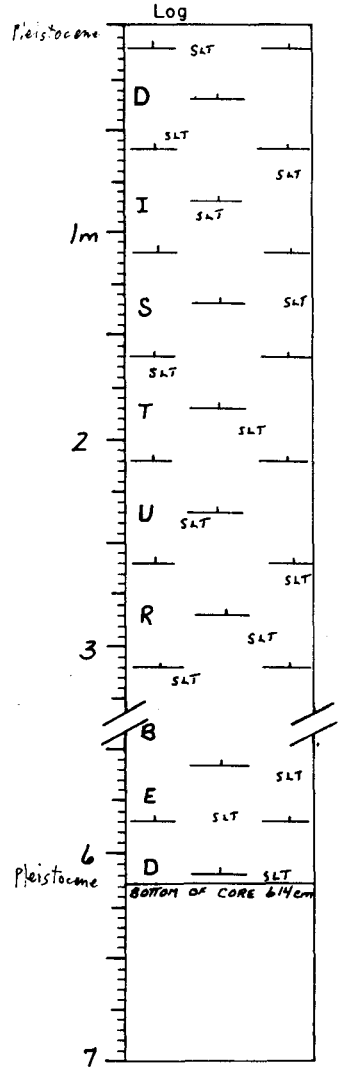
Ship A Cruise 246 Leg Sta. 65 Core No 27 PC

Total Length 614 cm. Lat. 11° 01' N Long. 67° 16' W Depth 897 corr m

Core condition very dry; poor Date Described 4/15/74 by B McGirr

Physiographic location Caribbean Sea, just off Venezuelan coast

Lithologic Log



Detailed Description

Note; This entire core is v. dry, hard, cracked, and disturbed. Many desiccation cracks are nearly horizontal, but many others are randomly oriented. Bits of aluminum foil contaminate the core surface in places. The poor core condition seriously hinders any visual description. True stratigraphic units and contacts are probably obscured by the dry, crumbled nature of the core. There was no description done when the core was fresh, so that no comparison can now be made.

0-614
CALC OOZE WITH DET
5Y 6/2 lt olive gray
silty lutite; core is too dry to permit visual approximation of foram content
entire core somewhat disturbed
S
end of core

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

Ship: Atlantis Core No. 27 PC

Expedition 246 Station No. 65

Leg No. _____ Total Core Length 614 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
tr	1 cm	calc ooze with det	20	3		tr	45	10	16			5			1
2	200 cm	calc ooze with det	20	2		1	40	8	22			5			
1	400 cm	calc ooze with det	17	2		1	46	8	20			5			
2	613 cm	calc ooze with det	20	2		1	44	6	20			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

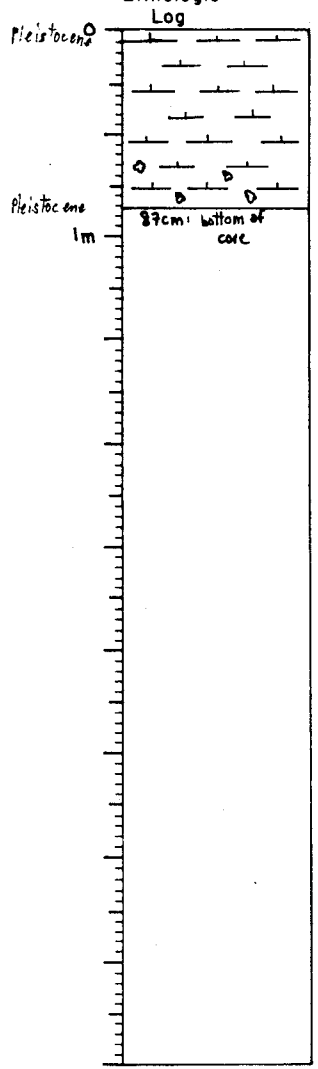
Ship A Cruise 246 Leg ____ Sta. 65 Core No. 27PC

Total Length 87 cm. Lat. 11°01.N Long. 67°16'W Depth 897 m Corr.

Core condition dry; good Date Described 6 MAY 74 by G MOUNTAIN

Physiographic location CARIBBEAN, JUST OFF VENEZUELAN COAST

Lithologic Log



Detailed Description

0-87
CALC OOZE
5Y 7/2 lt gray
faint dk gray mottling, fine scale mottling towards bottom of core
hard, dry crumbled lutite, forams common, scattered mollusc fragments
S
end of core

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

Ship: Atlantis Core No. 27 PG

Expedition 246 Station No. 65

Leg No. _____ Total Core Length 87 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
tr	1 cm	calc ooze	5	1?			43	15	20			15		tr	1
1	86 cm	calc ooze	10	3?			41	15	15			15			

VISUAL CORE DESCRIPTION Page 1 of 1

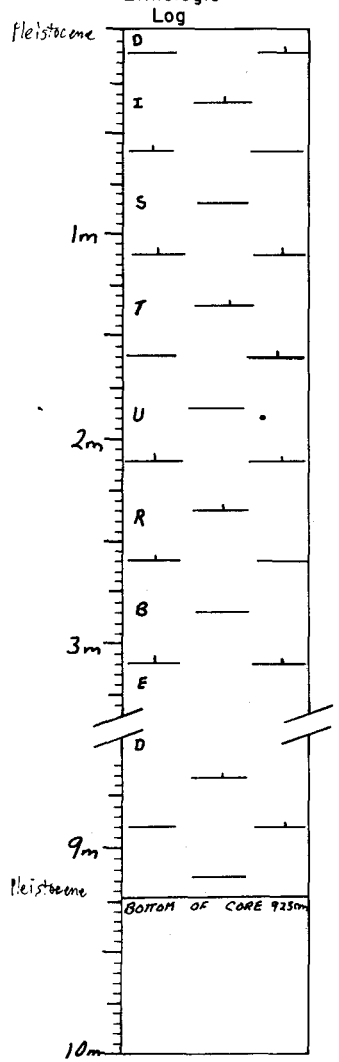
Ship A Cruise 246 Leg ____ Sta. 66 Core No. 28 PC

Total Length 923 cm. Lat. 11° 28' N Long. 67° 13' W Depth 1935 corr m

Core condition very dry; poor Date Described 4/16/74 by B McGirr

Physiographic location Caribbean Sea, off Venezuela

Lithologic Log



Detailed Description

Note; This entire core is v. dry, hard, and most of the core is disturbed. In many places the core is crumbly. The poor condition probably masks true stratigraphic units and contacts. There is no record of a description when the core was fresh.

0-923
HLY CALC CLAY OR CALC OOZE
5Y 6/2 lt olive gray
silty lutite, core is too dry to permit visual approximation of foram content
0-42 cm v. crumbly, disturbed; 420-550 cm, fairly solid; 550-820 cm, desiccation cracks mostly horizontal, core mostly undisturbed; 820-923 core mostly solid-random drying cracks; 725 cm, 1 cm diameter iron oxide nodule; a few scattered shell fragments
S
end of core

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

Ship: Atlantis Core No. 28 PC

Expedition 246 Station No. 66

Leg No. _____ Total Core Length 923 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	hly calc clay	5	8		3	64	3	7			15	tr		1
3	300 cm	calc ooze	5	3		5	40	4	35			5			tr
3	600 cm	hly calc clay	7	2		2	56	2	8			20			tr
3	922 cm	hly calc clay	5	2		3	57	3	12			15			tr

VISUAL CORE DESCRIPTION

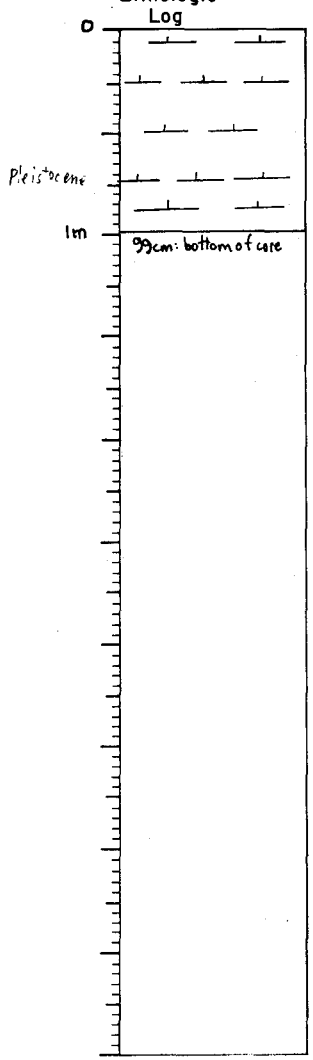
Ship A Cruise 246 Leg ____ Sta. 66 Core No. 28PG

Total Length 99 cm. Lat. 11°29'N Long. 67°13'W Depth 1935 m corr.

Core condition dry; fair Date Described 7 MAY 74 by G MOUNTAIN

Physiographic location CARIBBEAN, OFF VENEZUELA

Lithologic Log



Detailed Description

0-99

CALC OOZE
2.5Y 7/2 lt gray
dry, crumbled lutite, forams common
core dry, crumbled, shrunk; what remains appears to be quite homogeneous
end of core

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

Ship: Atlantis Core No. 29 PC

Expedition 246 Station No. 68

Leg No. _____ Total Core Length 694 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	calc ooze		3			29	15	45			5	tr	tr	1
tr	300 cm	calc ooze					22	25	45	3		5			
2	600 cm	calc ooze					38	15	35	5		5			
2	690 cm	calc ooze					48	15	30			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

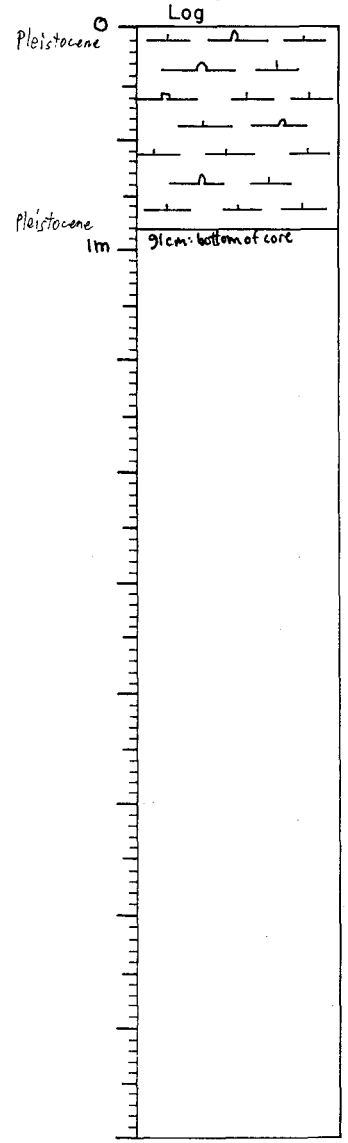
Ship A Cruise 246 Leg ____ Sta. 68 Core No. 29PG

Total Length 91 cm. Lat. 12°34'N Long. 68°29'W Depth 3210 m corr.

Core condition dry; good Date Described 7 MAY 74 by G Mountain

Physiographic location CARIBBEAN NW of BONAIRE ISLAND

Lithologic Log



Detailed Description

0-91
CALC SILIC OOZE GRADES TO CALC OOZE
2.5Y 7/2 lt gray
dry, crumbled lutite, forams and pteropods common
S
end of core

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

Ship: Atlantis Core No. 28 PG

Expedition 246 Station No. 66

Leg No. _____ Total Core Length 99 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
tr	70 cm	calc ooze	1				42	15	25	1		15		tr	1

VISUAL CORE DESCRIPTION

Page 1 of 1

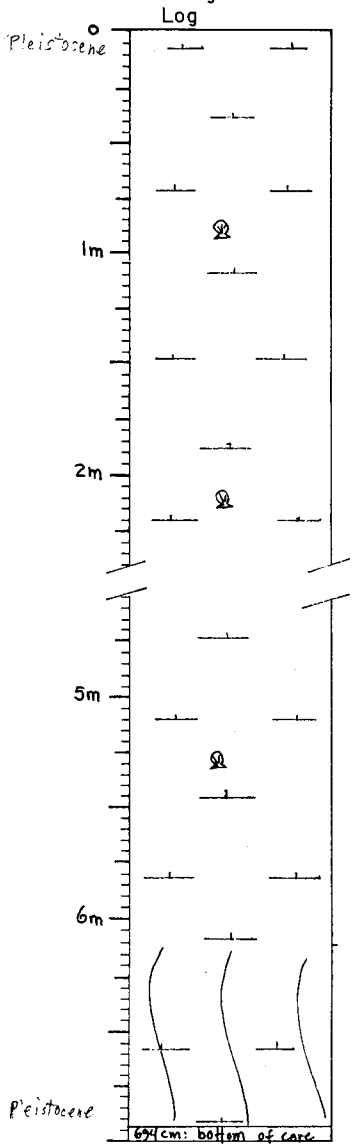
Ship A Cruise 246 Leg ____ Sta. 68 Core No. 29PC

Total Length 694 cm. Lat. 12°34'N Long. 68°29'W Depth 3210 m CORR.

Core condition dry, crumbled; poor Date Described 16 APRIL '74 by G MOUNTAIN

Physiographic location CARIBBEAN, NW OF BONAIRE ISLAND

Lithologic Log



Detailed Description

0-610
CALC OOZE
2.5Y 7/2 lt gray grades a little dk with depth
dry, crumbling lutite, with pteropod, gastropod shell hash scattered throughout
apparently homogeneous, but due to dryness of core visual description is of questionable significance
S inclined
610-694 FLOW IN.

END OF CORE

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

Ship: Atlantis Core No. 29 PG

Expedition 246 Station No. 68

Leg No. _____ 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 cm	calc silic ooze	tr	3?			39	15	15			15	10	1	2
90 cm	calc ooze	tr	3?			37	15	30	5		10	tr		

VISUAL CORE DESCRIPTION Page 1 of 1

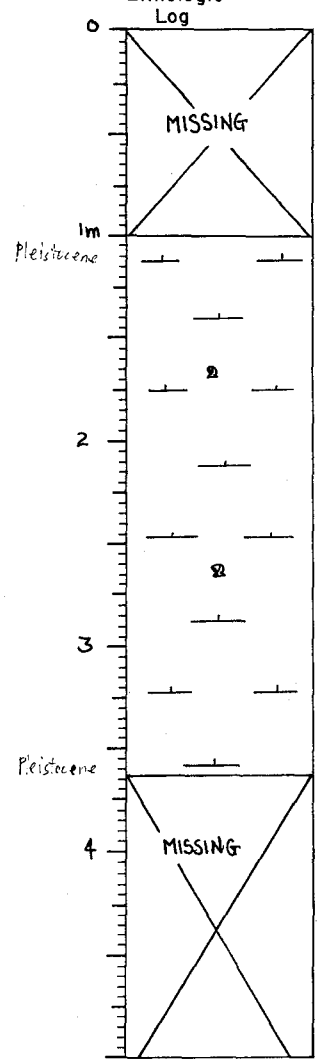
Ship A Cruise 246 Leg ____ Sta. 69 Core No. 30PC

Total Length 512 cm. Lat. 12°10.0'N Long. 68°29.0'W Depth 1499 m CORR.

Core condition 0-100 & 364-512 MISSING; rest is dry; POOR Date Described 16 APRIL 74 by G Mountain

Physiographic location 6 Miles W. of Bonaire Island

Lithologic Log



Detailed Description

0-100
MISSING
100-364
CALC OOZE
2.5Y 7.5/2 lt gray
hard dry, crumbling lutite; forams, gastropods, pteropods throughout
dry, and speckled with aluminum foil, visual description of minimal value 364-512cm.. MISSING.
end of core

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

Ship: Atlantis

Core No. 30 PC

Expedition 246

Station No. 69

Leg No.

Total Core Length 512 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
	100 cm	calc ooze		5			54	15	15			10	tr	tr	tr
tr	363 cm	calc ooze					60	15	15			10			

VISUAL CORE DESCRIPTION

Page 1 of 1

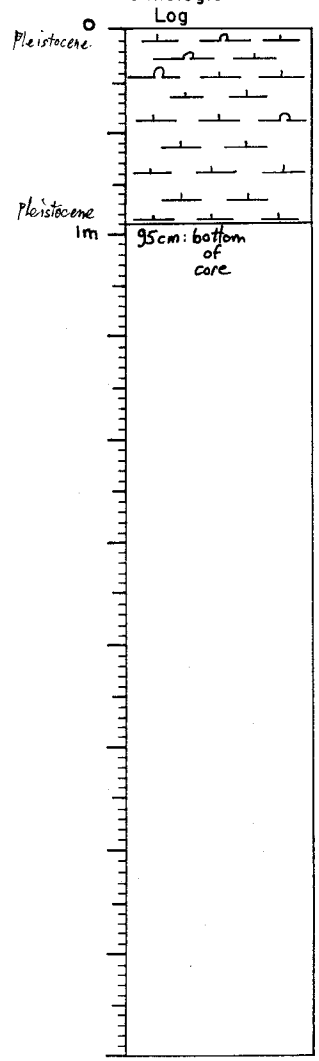
Ship A Cruise 246 Leg Sta. 69 Core No. 30PG

Total Length 95 cm. Lat. 12°10'N Long. 68°29'W Depth 1499 m corr.

Core condition dry, good Date Described 7 MAY 74 by G Mountain

Physiographic location SIX MILES WEST OF BONAIRE ISLAND

Lithologic Log



Detailed Description

0-95
CALC SILIC OOZE GRADES TO CALC OOZE
2.5Y 7/2 lt gray
dry, crumbling lutite, forams common, pteropods scattered
S
end of core

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

Ship: Atlantis Core No. 30 PG

Expedition 246 Station No. 69

Leg No. _____ Total Core Length 95 cm

LEVEL	SEDIMENT TYPE	ESTIMATED 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		tr			41	15	15			15	10	2	2
94 cm	calc ooze	1	10			34	15	15	10		15			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

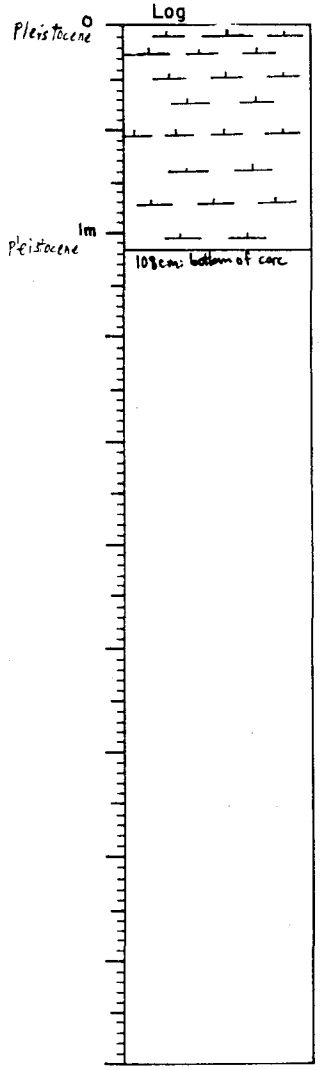
Ship A Cruise 246 Leg ____ Sta. 70 Core No. 31PC

Total Length 108 cm. Lat. 11°43'N Long. 68°30'W Depth 1803 m corr.

Core condition dry, fair Date Described 8 MAY 79 by G Mountain

Physiographic location SE OF KLEIN CURACAO

Lithologic Log



Detailed Description

0-108
CALC OOZE
2.5Y 7/2 lt gray
dry crumbled lutite, forams common, few pteropods
aluminum foil contamination is considerable

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

Ship: Atlantis Core No. 31 PC

Expedition 246 Station No. 70

Leg No. _____ Total Core Length 108 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
	1 cm	calc ooze		1?			43	20	15			20		tr	1
1	107 cm	calc ooze	1	1			47	10	30			10			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

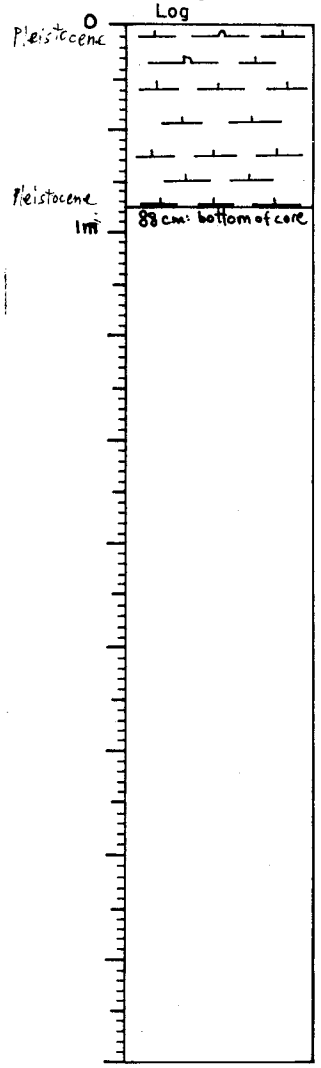
Ship A Cruise 246 Leg ____ Sta. 70 Core No. 31PG

Total Length 88 cm. Lat. 11°47'N Long. 68°30'W Depth 1803 cm m

Core condition dry, good Date Described 7 MAY 74 by G Mountain

Physiographic location SE OF KLEIN CURACAO

Lithologic Log



Detailed Description

0-88
CALC SILIC OOZE TO CALC OOZE
2.5Y 7/2 lt gray
dry, crumbled lutite, forams common, few pteropods
S
end of core

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

Ship: Atlantis Core No. 31 PG

Expedition 246 Station No. 70

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
1 cm	calc silic ooze		1			44	15	20			15	1	1	3
1 87 cm	calc ooze		1			48	15	20		tr	15			tr

VISUAL CORE DESCRIPTION Page 1 of 1

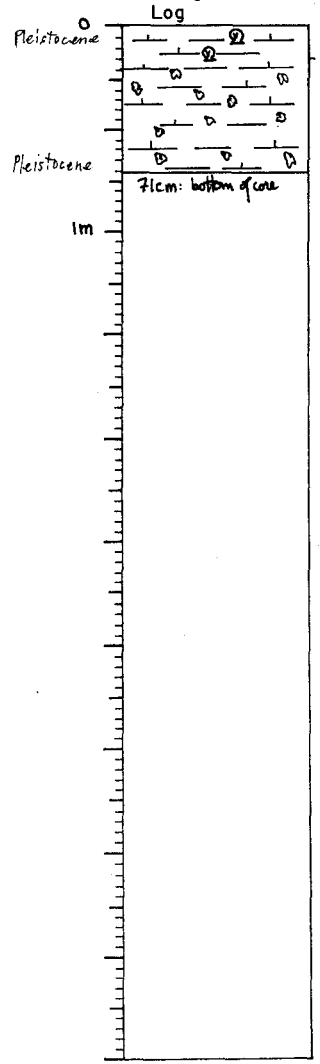
Ship A Cruise 246 Leg ____ Sta. 71 Core No. 32PG

Total Length 71 cm. Lat. 11°25.5'N Long. 68°30'W Depth 347 m corr.

Core condition dry, fair Date Described 8 MAY '74 by G MOUNTAIN

Physiographic location OFF VENEZUELA

Lithologic Log



Detailed Description

0-15
HLY CALC CLAY
5Y 6/2 lt olive gray
dry, crumbled lutite, forams common, several mollusc shell fragments
sediment has shrunk, less than 71 cm remaining
G

15-71
HLY CALC CLAY
5Y 5/2 olive gray
extensive fine scale mottling, lt olive gray; mottling, burrowing
dry, cracked lutite, fewer forams and shell fragments than above
end of core

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

Ship: Atlantis Core No. 32 PG

Expedition 246 Station No. 71

Leg No. _____ Total Core Length 71 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
	1 cm	hly calc clay	3	3			64	10	5	tr		15			
2	70 cm	hly calc clay	5	5			55	10	5			15			

VISUAL CORE DESCRIPTION

Page 1 of 1

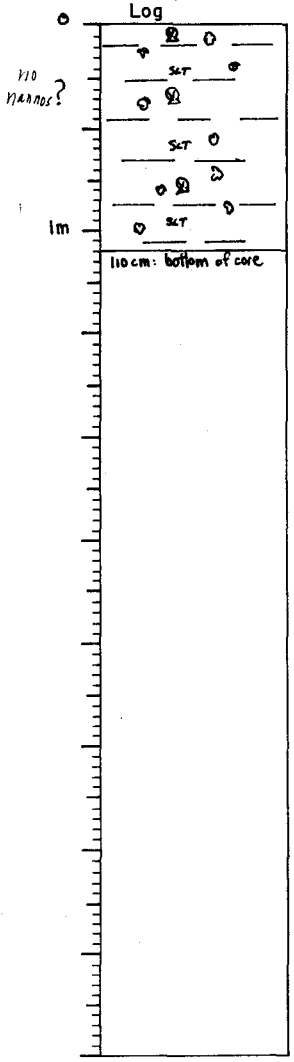
Ship A Cruise 246 Leg ____ Sta. 214 Core No. 33PG

Total Length 110 cm. Lat. 11°15'N Long. 71°35'W Depth 18 m

Core condition dry, fair Date Described 8 MAY, '74 by G MOUNTAIN

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-110
UNFOSS CLAY/DET
5Y 6/2 lt olive gray
extensive fine scale, irregular mottling, lt gray
hard, cracked silty lutite, scattered shell fragments
considerable shrinkage; only 70 cm of sediment remaining
end of core

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

Ship: Atlantis Core No. 33 PG

Expedition 246 Station No. 214

Leg No. _____ Total Core Length 110 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1cm	unfoss clay/det	30	5			65					tr			

VISUAL CORE DESCRIPTION Page 1 of 1

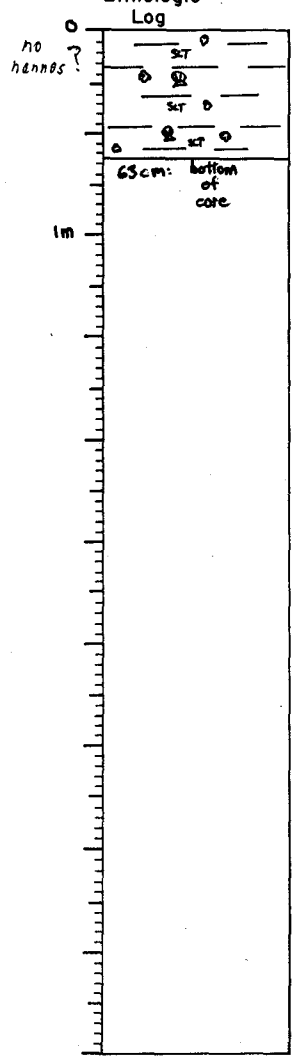
Ship A Cruise 246 Leg ____ Sta. 215 Core No. 34PG

Total Length 63 cm. Lat. 11° 26.5'N Long. 71° 36.5'W Depth 24m

Core condition dry; fair Date Described 8 MAY '74 by G MOUNTAIN

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-63
UNFOSS CLAY/DET
5Y 5/2 olive gray
extensive fine scale, irregular mottling, lt olive gray
hard, cracked silty lutite, scattered mollusc shells
end of core

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

Ship: Atlantis Core No. 34 PG

Expedition 246 Station No. 215

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
1 cm	unfoss clay/ det	30	5			65	tr				tr			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

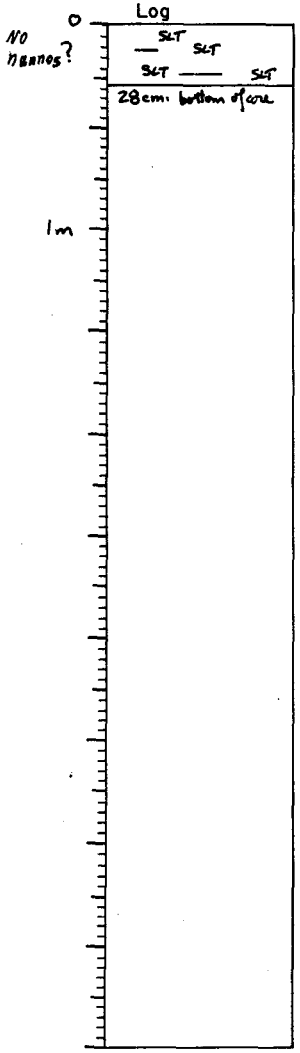
Ship A Cruise 246 Leg ____ Sta. 216 Core No. 35 PG

Total Length 28 cm. Lat. 11°34' N Long. 71°35.5' W Depth 22 m

Core condition dry; fair Date Described 8 MAY 74 by G MOUNTAIN

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-28
DET SILT
5Y 5/2 olive gray
dry, crumbled silt, scattered mollusc fragments
end of core

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

Ship: Atlantis Core No. 35 PG

Expedition 246 Station No. 216

Leg No. _____ Total Core Length 28 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	det silt	80				20								

VISUAL CORE DESCRIPTION Page 1 of 1

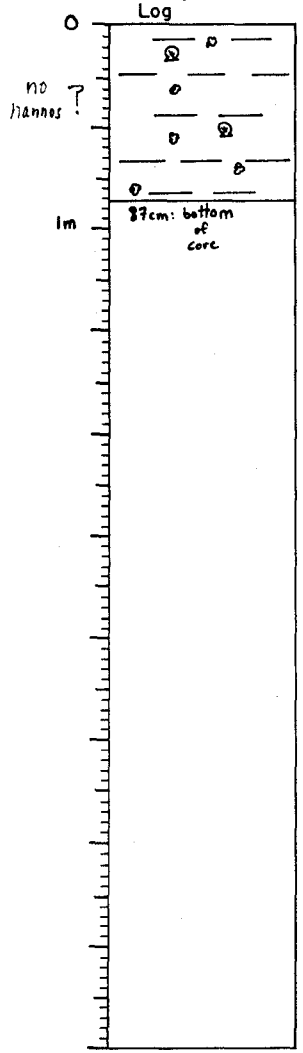
Ship A Cruise 246 Leg ____ Sta. 217 Core No. 36PG

Total Length 87 cm. Lat. 11° 46'N Long. 71°13'W Depth 18m

Core condition dry; poor Date Described 9 MAY '74 by G MOUNTAIN

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-87
UNFOSS CLAY
5Y 5/2 olive gray
extensive fine scale, irregular mottling, lt olive gray
dry and considerably crumbled silty lutite, scattered shell fragments

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

Ship: Atlantis Core No. 36 PG

Expedition 246 Station No. 217

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 cm	unfoss clay	15	5			80					tr			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

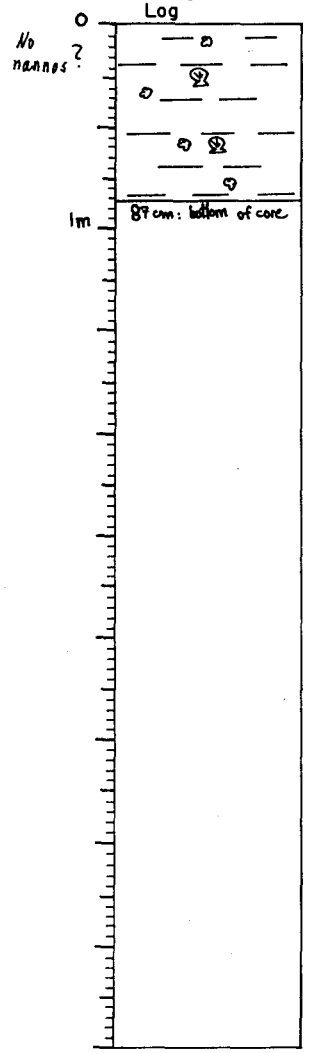
Ship A Cruise 246 Leg ____ Sta. 218 Core No. 37PG

Total Length 87 cm. Lat. 11°46'N Long. 71°05'W Depth 16m

Core condition dry; good Date Described 9 MAY '74 by G Thompson

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-87
UNFOSS CLAY
2.5Y 5/2 olive gray
extensive fine scale, irregular mottling, lt olive gray
dry, crumbled, silty lutite; pteropod and pelecypod fragments
only 60 cm of sediment remaining
end of core

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

Ship: Atlantis

Expedition 246

Leg No. _____

Core No. 37 PG

Station No. 218

Total Core Length 87 cm

Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand				Clay	Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards		Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
5	5 cm	unfoss clay	15	5			75					tr			

VISUAL CORE DESCRIPTION

Page 1 of 1

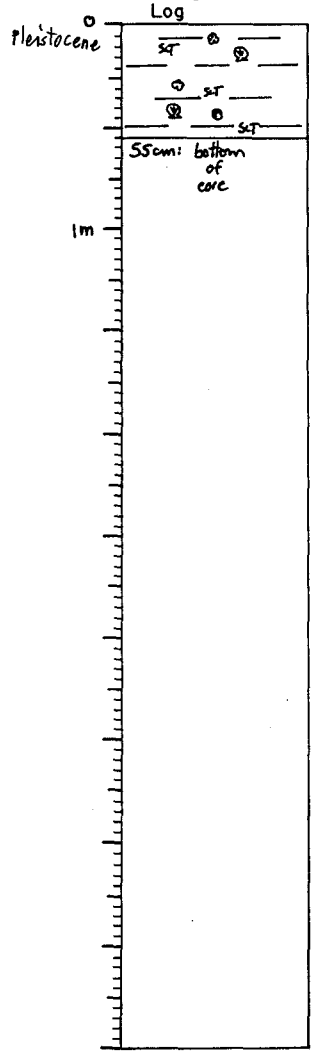
Ship A Cruise 246 Leg ____ Sta. 219 Core No. 38 PG

Total Length 55 cm. Lat. 11°45'N Long. 70°49'W Depth 37m

Core condition dry; fair Date Described 3 MAY 74 by G THORNTAIN

Physiographic location GULF OF VENEZUELA

Lithologic Log



Detailed Description

0-55
UNFOSS CLAY/DET SILT
5Y 6/2 lt olive gray
extensive fine scale, irregular mottling, olive gray
hard, crumbled; scattered pelecypod fragments
end of core

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

Ship: Atlantis

Core No. 38 PG

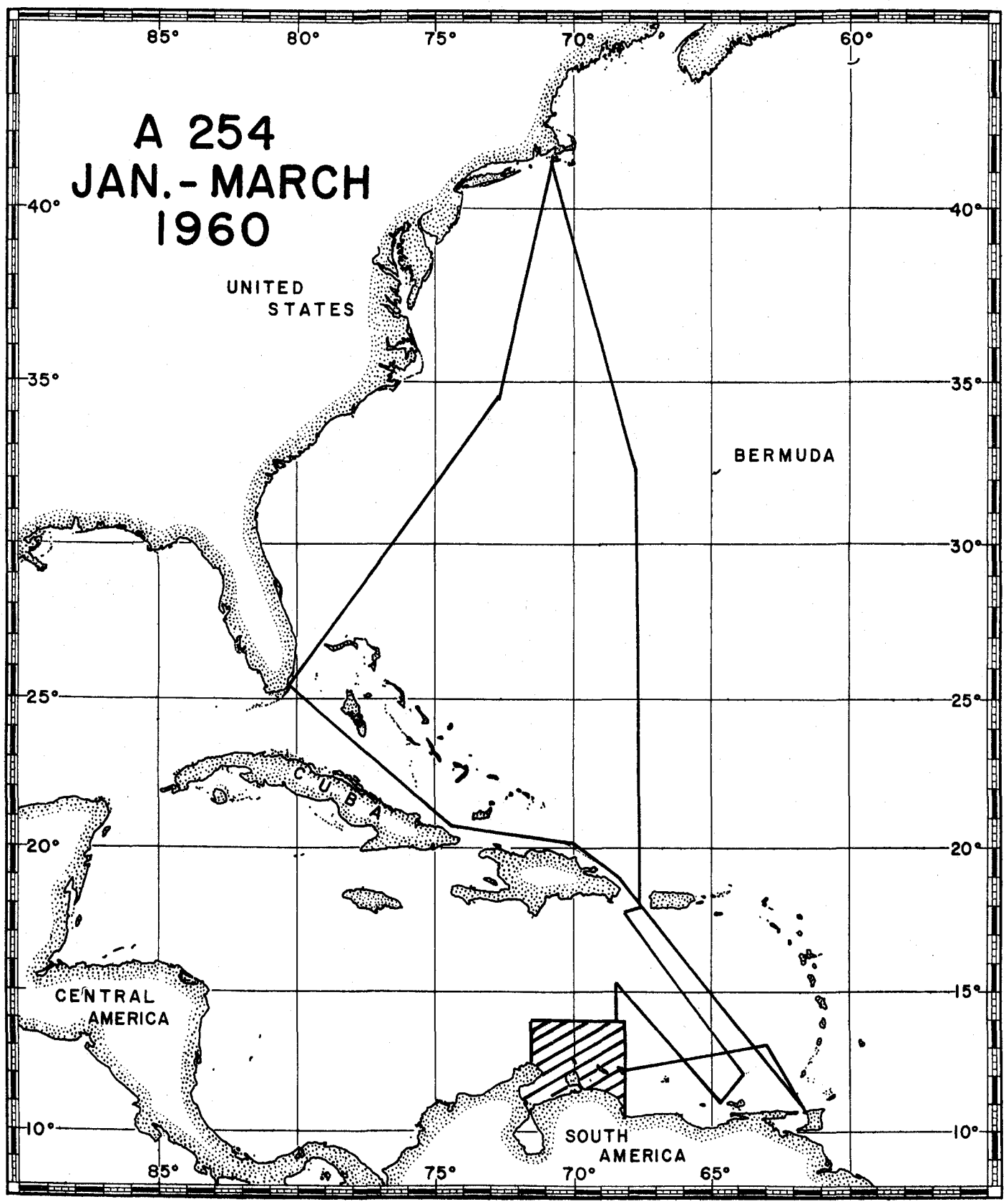
Expedition 246

Station No. 219

Leg No. _____

Total Core Length 55 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	unfoss clay/det	30				67		tr						


A 254
JAN.-MARCH
1960
UNITED
STATES
BERMUDA
CUBA
CENTRAL
AMERICA
SOUTH
AMERICA
85°
80°
75°
70°
60°
40°
35°
30°
25°
20°
15°
10°
85°
75°
70°
65°

********** STATION DATA RETRIEVAL ********** PAGE 1 OF 1
********** DATE: 17:42 JAN 19,'75 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	254	3	0324	0000	15	60 215	21.320N	83.100W	5	45.13	0001	3655.	601.	0000	0	3735	0	
ATL	254	3	0325	0000	15	60 216	21.110N	82.500W	5	81.72	0002	4463.	218.	0000	0	3725	0	
ATL	254	3	0325	0000	26	60 216	21.110N	82.500W	5	81.12	0002	4463.	0.	0055	0	3359	0	
ATL	254	3	0326	0000	15	60 216	21.110N	82.500W	5	81.12	0003	3596.	537.	0000	2	3000	0	
ATL	254	3	0326	0000	26	60 216	21.110N	82.500W	5	81.12	0003	3596.	0.	0056	2	3759	0	
ATL	254	3	0327	0000	15	60 217	20.020N	84.110W	5	81.04	0004	4500.	498.	0000	2	7439	0	
ATL	254	3	0328	0000	26	60 217	20.020N	84.110W	5	81.04	0005	4568.	0.	0072	2	3329	0	
ATL	254	3	0330	0000	15	60 220	19.350N	84.510W	5	45.51	0006	4579.	605.	0000	2	3339	0	
ATL	254	3	0330	0000	26	60 220	19.350N	84.510W	5	45.51	0006	4579.	0.	0034	2	3339	0	
ATL	254	3	0331	0000	15	60 221	19.120N	86.440W	5	45.96	0007	4526.	300.	0000	2	7339	0	
ATL	254	3	0331	0000	26	60 221	19.120N	86.440W	5	45.96	0007	4526.	0.	0067	2	3739	0	
ATL	254	3	0333	0000	15	60 222	18.290N	86.200W	5	45.86	0008	4402.	292.	0000	2	3849	0	
ATL	254	3	0333	0000	26	60 222	18.290N	86.200W	5	45.86	0008	4402.	0.	0076	2	3329	0	
ATL	254	3	0334	0000	15	60 222	17.520N	86.150W	5	45.76	0009	2440.	0.	0061	2	3759	0	
ATL	254	3	0335	0000	15	60 223	16.290N	86.345W	5	45.66	0010	2791.	0.	0066	2	3355	0	

THERE WERE 15 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

STOP THAT IS ALL FOR NOW

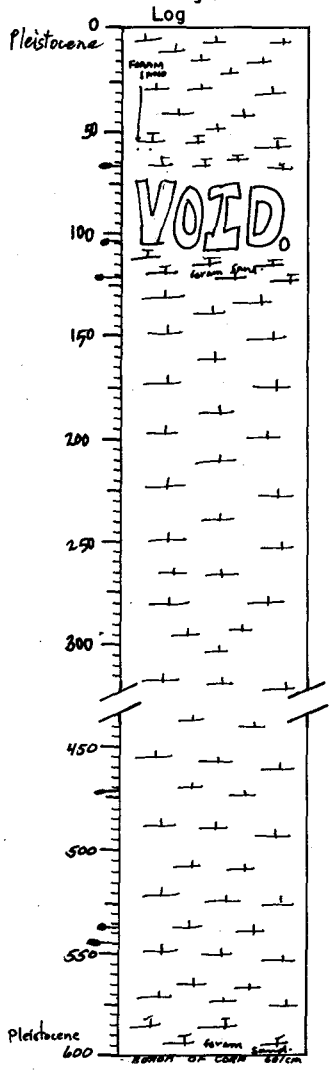
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 324 Core No. 1PC
Total Length 601 cm. Lat. 21° 32' N Long. 83° 10' W Depth 3655 corrm.
Core condition FAIR...(cracked and dried) Date Described 8MAY74 by J. BRODA.
Physiographic location YUCATAN BASIN.

Lithologic Log



(nearly all contacts concave upwards ... somewhat disturbed).

Detailed Description

0-67
FORAM SAND CALC OOZE
10YR 7/4 v. pale brown
extremely abunt. forams, scattered pteropod

67-104
VOID

104-121
CALC OOZE FORAM SAND
10YR 7/4 v. pale brown
extremely abunt. forams in silty lutite
S, horizontal

121-472
CALC OOZE
10YR 7/4 v. pale brown
alternating faint bands of calc ooze, concave upward distortions
forams scattered throughout lutite
S, dried and cracked

472-537
CALC OOZE, FORAM SAND
10YR 7/4 v. pale brown
extrememly abunt. forams
some verylarge foram tests and shell fragments

537-545 S with VOID
VOID

545-601
CALC OOZE
10YR 7/2 white
scattered forams in lutite
lithfications, white, v. pale brown, 1/4-1/2 cm diameter scattered
end of core

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

Ship: Atlantis Core No. 1 PC
Expedition 254 Station No. 324
Leg No. 3 Total Core Length 601 cm

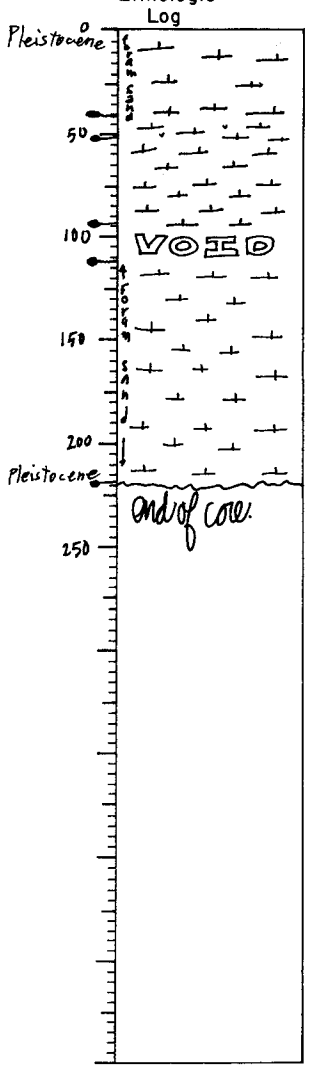
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze					20	45	27		tr	8			tr
105 cm	calc ooze	tr				30	35	30		3	2			tr
125 cm	calc ooze					12	15	68		tr	5			tr
205 cm	calc ooze	2				40	7	45			6			
306 cm	calc ooze					30	5	55		2	8			tr
405 cm	calc ooze					35	8	50			7			
506 cm	calc ooze					10	60	28		tr	2			
601 cm	calc ooze					40	9	45		tr	6			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 325 Core No. 2PC
Total Length 218 cm. Lat. 21°11.0'N Long. 82°50.0'W Depth 4463 corr. meters.
Core condition DRY & CRACKED. (FAIR). Date Described 8 MAY 74 by J. BROOA.
Physiographic location YUCATAN BASIN.

Lithologic Log



Detailed Description

0-41
CALC OOZE (FORAM SAND)
10YR 8/3 v. pale brown
extremely abunt. forams, scattered pteropod & shell fragments
G

41-51
CALC OOZE
10YR 8/3 v. pale brown
common small mottling, lt gray
few forams somewhat silty in mottles
G

51-94
CALC OOZE
10YR 8/3 v. pale brown
extremely abunt. forams, scattered shell fragments

94-111
VOID

111-218
CALC OOZE (FORAM SAND)
10YR 8/2 white
foram sand
end of core

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

Ship: Atlantis Core No. 2 PC
Expedition 254 Station No. 325
Leg No. 3 Total Core Length 218 cm

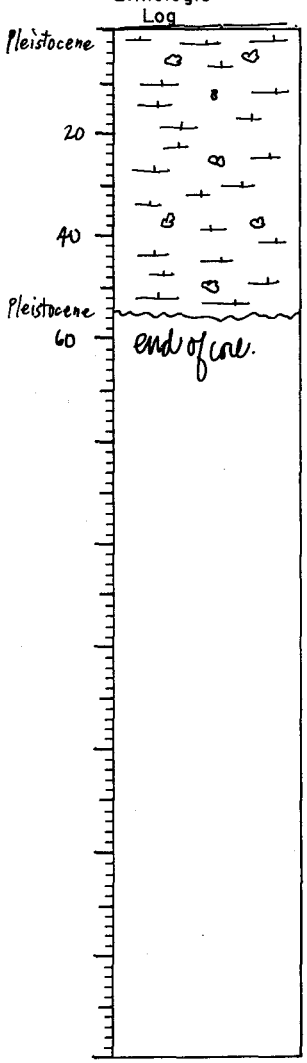
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze					10	55	30		tr	5			tr
44 cm	calc ooze				tr	40	12	38		tr	5		tr	5
112 cm	calc ooze					10	55	30		tr	5			
217 cm	calc ooze					6	60	30		tr	4			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 325 Core No. 2PG
Total Length 55 cm. Lat. 21°11.0' N Long. 82°50.0'W Depth 4463 corr. m.
Core condition very poor / dried / cracked / ~~[illegible]~~ Date Described 8MAY.74 by J.BRODA.
Physiographic location YUCATAN BASIN.

Lithologic Log



Detailed Description

0-55
CALC OOZE
10YR 8/2 white
sl mottling, white and v. pale brown
abunt. forams in silty lutite
Note; voids occur throughout core, 15 cm altogether but due to the sample's condition when it was split it is impossible to determine their exact orientaion.
end of core

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

Ship: Atlantis Core No. 2 PG
Expedition: 254 Station No. 325
Leg No. 3 Total Core Length 55 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze	1				30	16	40		1	10			2
54 cm	calc ooze					40	12	43		tr	5			

0171

VISUAL CORE DESCRIPTION

Page 1 of 1

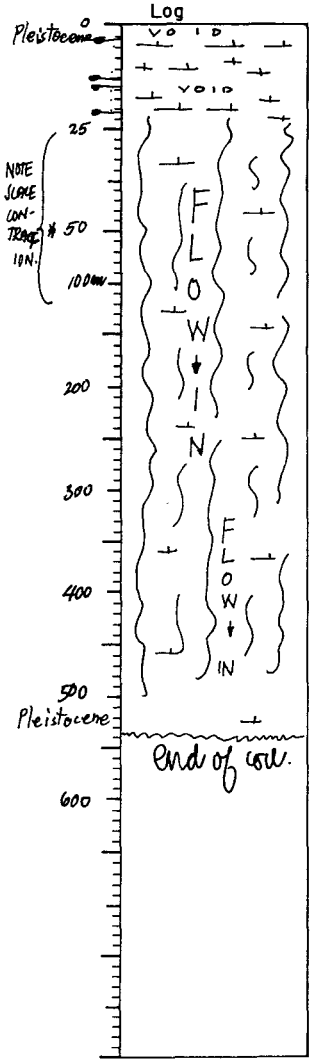
Ship A Cruise 254 Leg 3 Sta. 326 Core No. 3PC

Total Length 537 cm. Lat. 21° 11.0'N Long. 82° 50.0'W Depth 3596 m/core

Core condition FAIR.. INTACT BUT DRIED Date Described 9MAY74 by J. BRODA.

Physiographic location SMALL SEAMOUNT.. YUCATAN BASIN.

Lithologic Log



Detailed Description

0-2
VOID
2-13
CALC OOZE
10YR 8/4 v. pale brown
common small mottling, pale brown
scattered forams in silty lutite
void 10-11 cm
S with void
13-16
VOID
16-21
CALC OOZE
10YR 8/3 v. pale brown
scattered forams in dry lutite
distorted lams concave upward, pale brown
S horizontal
21-537
FLOW IN
end of core

0172

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

Ship: Atlantis Core No. 3 PC

Expedition 254 Station No. 326

Leg No. 3 Total Core Length 537 cm

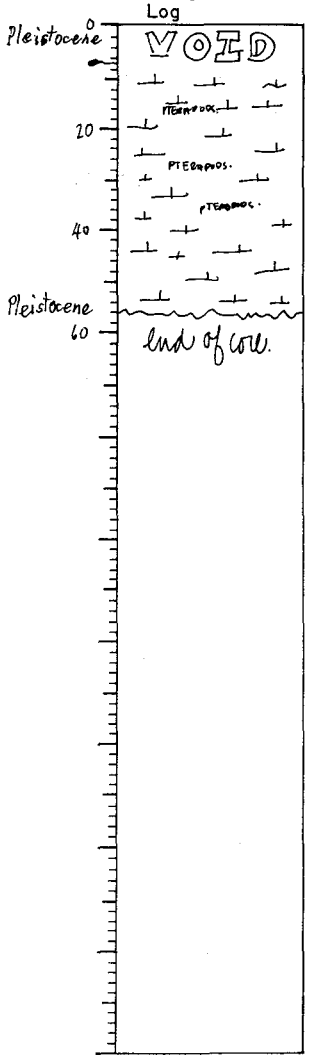
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2 cm	calc ooze	2				30	25	30			10			3
20 cm	calc ooze					50	15	30			5			
535 cm	calc ooze					45	35	35			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 326 Core No. 3PG
Total Length 56 cm. Lat. 21° 11.0'N Long. 82° 50.0'W Depth 3596 corr m.
Core condition POOR DRIED (CRACKED) (SEDIMENT MISSING) Date Described 9 MAY 74 by J. BRODA.
Physiographic location SMALL SEAMOUNT... YUCATAN BASIN.

Lithologic Log



Detailed Description

0-7
VOID
Note; due to condition of this core when split it is impossible to determine the exact positions of the broken and separated segments of this sample

7-56
CALC OOZE
10YR 8/3 v. pale brown
v. sl mottling, scattered thin lams of white
scattered forams, silty lutite
pteropods abunt. 16-38, 33-35 cm
end of core

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

Ship: Atlantis Core No. 3 PG
Expedition 254 Station No. 326
Leg No. 3 Total Core Length 56 cm

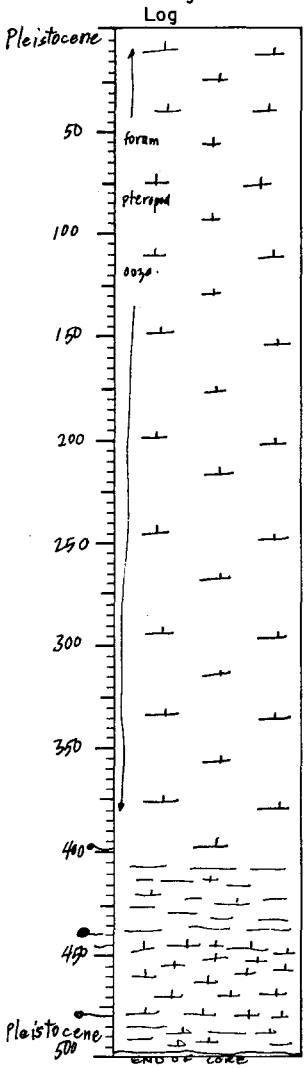
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
15 cm	calc ooze	tr				35	15	35	tr		15			tr
27 cm	calc ooze	1				30	9	30	20	tr	10			tr
55 cm	calc ooze	tr		tr		25	8	65			2			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 327 Core No. 4PC
Total Length 498 cm. Lat. 20°02.0'N Long. 84°11.0'W Depth 4500 corr.m.
Core condition GOOD .. somewhat disturbed. Date Described 9MAY74 by J.BRODA.
Physiographic location YUCATAN BASIN

Lithologic Log



Detailed Description

0-397
CALC OOZE
2.5Y 7/2 lt gray
extremely abunt. forams & pteropods:more pteropods at 60-67, 95-125cm.
extensive unit of foram pteropod ooze. the relative amount of the two constituents fluctuates but the integrity of the unit remains constant throughout, wood-like seed-like black inclusions scattered throughout; most abunt 110-150 cm, 200-235, 372-390 cm
S

397-440
SL CALC CLAY
2.5Y 6/2 lt brownish gray
sl mottling, white
thin 1 cm lam. in lutite
S, horizontal

440-480
CALC OOZE
10YR 8/1 white
uniformly silty in texture
G

480-498
HLY CALC CLAY
10YR 7/2 lt gray
common mottling, white
scattered forams
end of core

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

Ship: Atlantis Core No. 4 PC
Expedition 254 Station No. 327
Leg No. 3 Total Core Length 498 cm

LEVEL	SEDIMENT TYPE	ESTIMATED 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				30	25	15	15	tr	10			
100 cm	calc ooze	2				18	45	12	20	tr	3			
115 cm	("wood" chip)	cannot be sure												
200 cm	calc ooze	3				13	40	10	28		6			
305 cm	calc ooze	3				25	33	12	22		5			
400 cm	calc clay	3		1		80	2	8			6			
455 cm	calc ooze	tr				30	45	8	2		15			
497 cm	calc ooze	2		1		63	3	22	tr	tr	10			tr

0177

VISUAL CORE DESCRIPTION

Page 1 of 1

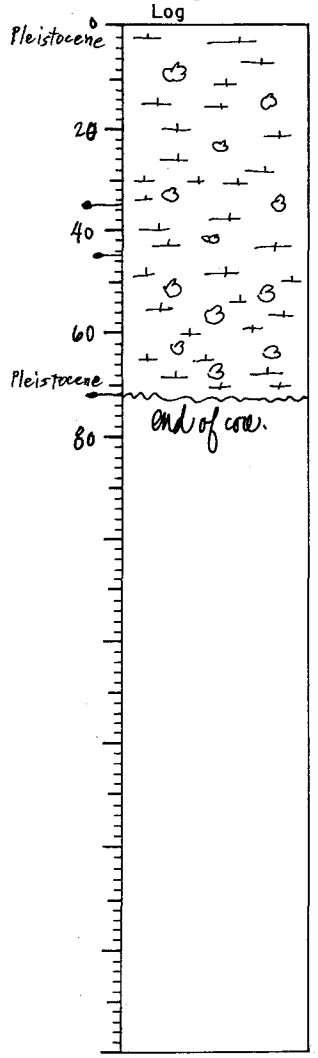
Ship A Cruise 254 Leg 3 Sta. 328 Core No. 5 PG

Total Length 72 cm. Lat. 20° 02.'N Long. 84°11.'W Depth 4568 CORR. M.

Core condition POOR - CRACKED DRIED. Date Described 10MAY74 by Broda

Physiographic location YUCATAN BASIN.

Lithologic Log



Detailed Description

Note; Voids occur throughout this core and due to the core's condition when it was split it is impossible to determine their exact position or orientation. The core was described with the 25 cm of void spread throughout with the assumption that the core has shrunk uniformly over its legnth.

0-35
CALC OOZE
10YR 8/2 white
sl mottling, v. pale brown
few forams
G textural

35-45
CALC OOZE
10YR 8/3 v. pale brown
v. sl mottling, with forams
abunt. forams
G textural

45-72
CALC OOZE
10YR 8/2 white
common mottling, v. pale brown
few forams
end of core

0178

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

Ship: Atlantis Core No. 5 PG

Expedition 254 Station No. 328

Leg No. 3 Total Core Length 72 cm

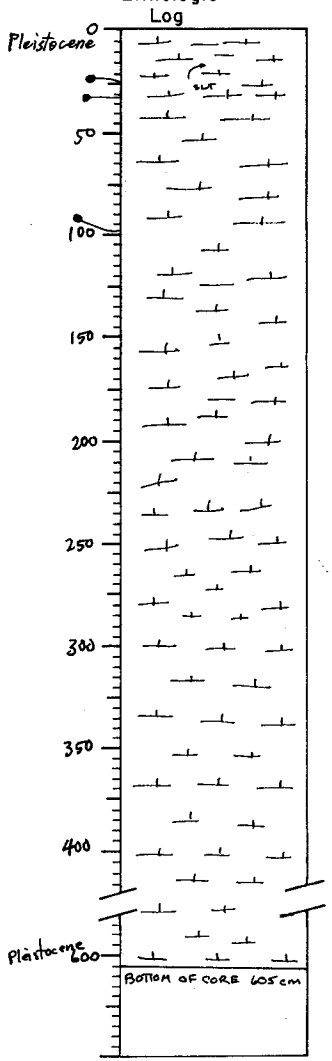
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze	tr		3		35	10	50			2			tr
65 cm	calc ooze			2		35	15	45			2			1

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 330 Core No. 6PC
Total Length 605 cm. Lat. 19°35'N Long. 84°51'W Depth 4579 corrm.
Core condition GOOD Date Described 10MAY74 by J.BROOD.
Physiographic location N. of SWAN ISLANDS.

Lithologic Log



Detailed Description

0-24
CALC OOZE
10YR 8/2 white
firm slick lutite to silty lutite esp. 16-24 cm
S, I 5°

24-32
CALC OOZE
10YR 7/2 lt gray
somewhat silty
S marbled

32-96
CALC OOZE
10YR 8/2 white
smooth lutite
faint white laminations, 1/2cm in thickness
G

96-605
CALC OOZE
2.5Y 7/2 lt gray
smooth lutite
sediment between 287-300 cm missing
no lithologic features of any sort. suspect there's a possibility of flow-in here although no sign of vertical striations are visible.
end of core

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

Ship: Atlantis Core No. 6 PC
Expedition 254 Station No. 330
Leg No. 3 Total Core Length 605 cm

LEVEL	SEDIMENT TYPE	ESTIMATED 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		40	18	35		tr	4			1
28 cm	calc ooze	tr		2		40	7	40		tr	11			tr
90 cm	calc ooze			1		60	5	30			4			tr
250 cm	calc ooze	tr		2	tr	45	3	46		1	3			tr
500 cm	calc ooze			1		45	5	45		1	3			tr
605 cm	calc ooze	tr		1		35	2	35		tr	2			tr

0181

VISUAL CORE DESCRIPTION

Page 1 of 1

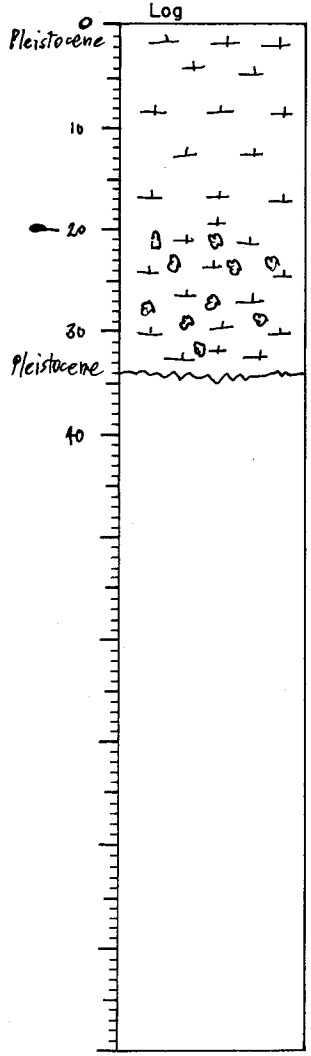
Ship A Cruise 254 Leg 3 Sta. 330 Core No. 6PG

Total Length 34 cm. Lat. 19°35'N Long. 84°51'W Depth 4579 m core

Core condition POOR..DRY..CRACKED Date Described 13MY74 by J. BRODA.

Physiographic location NORTH OF SWAN ISLANDS.

Lithologic Log



Detailed Description

0-20
CALC OOZE
10YR 8/1 white
apparent in lutite, no forams
S concave upward

20-34
CALC OOZE
10YR 7/2 lt gray
extensive small mottling, lt brownish gray
scattered forams
end of core

0182

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

Ship: Atlantis Core No. 6 PG

Expedition 254 Station No. 330

Leg No. 3 Total Core Length 34 cm

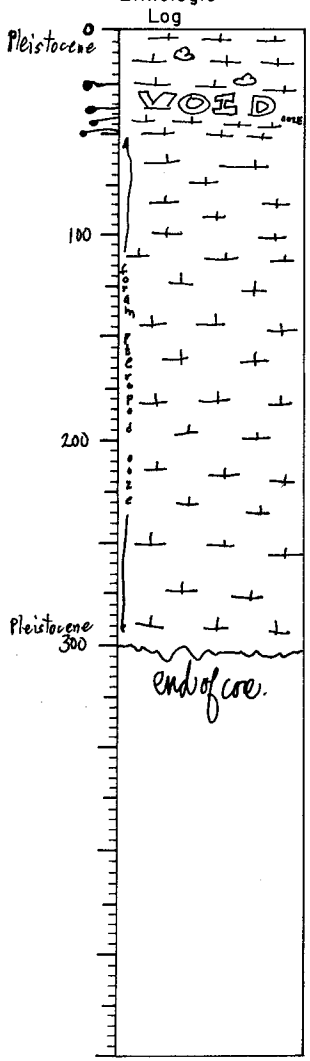
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze	2	tr			50	3	32		1	12			tr
33 cm	calc ooze	1	1			45	8	35		tr	10			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 254 Leg 3 Sta. 331 Core No. 7PC
Total Length 300 cm. Lat. 19°12.0'N Long. 86°44.0'W Depth 4526 corrected meters
Core condition GOOD/DRY BUT COMPLETE Date Described 13 MAY 74 by J. BRODA.
Physiographic location OFF YUCATAN PENINSULA.

Lithologic Log



Detailed Description

0-25
CALC OOZE
10YR 8/3 v. pale brown
sl mottling, white
scattered forams in somewhat silty lutite

25-32
VOID

32-42
CALC OOZE
10YR 8/2 white
foram pteropod ooze
S inclined 25°

42-47
CALC OOZE
10YR 8/2 white
thin lams , lt brownish gray
S inclined 25°

47-300
CALC OOZE
10YR 8/2 white
foram pteropod ooze, a bit coarser 220-300 cm, more pteropods

end of core

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

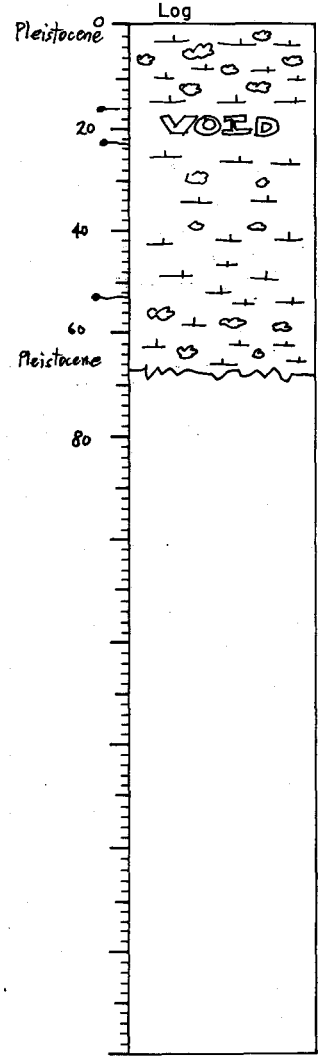
Ship: Atlantis Core No. 7 PC
Expedition 254 Station No. 331
Leg No. 3 Total Core Length 300 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2 cm	calc ooze			tr		25	12	55	5		3			
45 cm	calc ooze	tr	1			45	5	42	tr		7			
100 cm	calc ooze	1	tr			15	35	10	30	1	8			
200 cm	calc ooze	1				10	40	10	35		4			tr
298 cm	calc ooze					6	35	4	40	tr	15			tr

VISUAL CORE DESCRIPTION

Ship A Cruise 254 Leg 3 Sta. 331 Core No. 7PG
Total Length 67 cm. Lat. 19°12.0'N Long. 86°44.0'W Depth 4526 corr. m
Core condition POOR.. CRACKED. DRIED. SEPARATED Date Described 13MAY74 by BRODA.
Physiographic location OFF YUCATAN PENINSULA.

Lithologic Log



Detailed Description

0-16
CALC OOZE
10YR 7/2 lt gray
extensive mottling, white, v. pale brown
scattered forams in lutite

16-23
VOID

23-53
CALC OOZE
10YR 7/2 lt gray
sl mottling, white with forams
abunt. forams in silty lutite
coarser zone 475—53 cm, tiny pteropods extremely abunt.
S, I 5°

53-67
CALC OOZE
10YR 7/3 v. pale brown
extensive mottling, white, v. pale brown··lutite
end of core

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

Ship: Atlantis Core No. 7 PG
Expedition 254 Station No. 331
Leg No. 3 Total Core Length 67 cm

LEVEL	SEDIMENT TYPE	ESTIMATED 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					55	20	15	tr		10			
32 cm	calc ooze	tr				25	35	20	15		5			tr
66 cm	calc ooze					55	10	30	tr		3			2

0187

VISUAL CORE DESCRIPTION

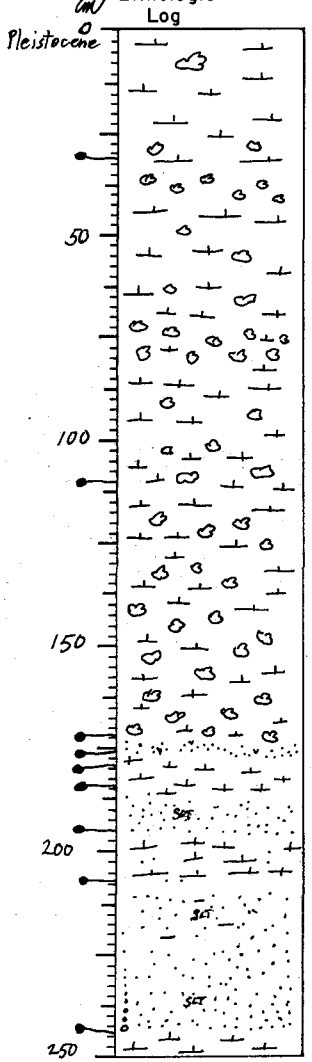
Ship A Cruise 254 Leg 3 Sta. 333 Core No. 8PC

Total Length 292 cm. Lat. 18° 29.0'N Long. 86° 20.0'W Depth 4402 m corr

Core condition GOOD: slight disturbance in [illegible] Date Described 13 MAY 74 by J. BRODA.

Physiographic location off Honduras, Caribbean Sea

Lithologic Log



Detailed Description

0-31
CALC OOZE
10YR 8/2 white
sl mottling, v. pale brown
scattered forams except 21-30 cm where v. abunt.
S mottled

31-110
CALC OOZE
10YR 7/3 v. pale brown
extensive mottling, 31-40, 71-80 cm, white, common elsewhere
scattered forams, extensive black flecks, 104-110 cm
G mottled

110-172
CALC OOZE
10YR 7/2 lt gray
extensive small mottling throughout, white, pale brown
scattered forams
scattered shell fragments
S horizontal

172-175.5
DET
5Y 6/2 lt olive gray
fine det sand
S horizontal

175.5-179
CALC OOZE
10YR 8/1 white
silty lutite
S, concave upward

179-184
CALC OOZE
10YR 7/2 lt gray
v. sandy lutite
S disturbed

184-195
DET
10YR 7/4 v. pale brown, 8/1 white
note this portion of core disturbed and broken large chunks of calc ooze mixed with loose det sand
G

195-207
CALC OOZE
10YR 5/1 gray
silty lutite with white flecks
some lams of silt
S concave upward

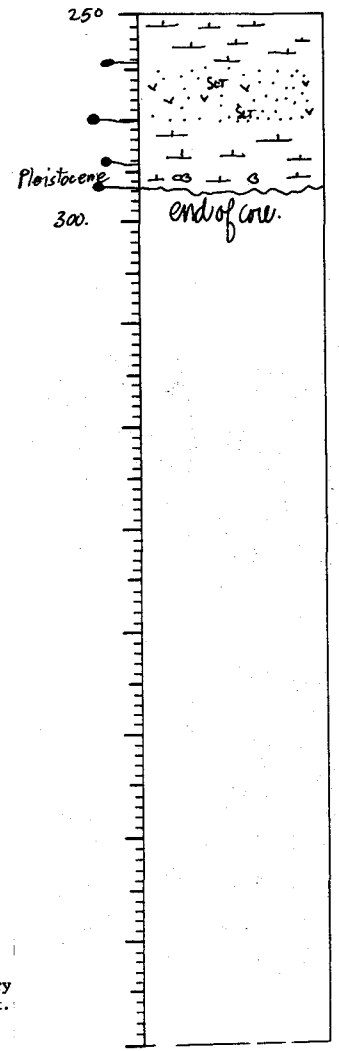
207-247
DET
2.5Y 6/4 lt yellowish brown
again this portion of the core is disturbed due to the dry and loose conditon of the det sand which is most abunt.

0188

VISUAL CORE DESCRIPTION

Ship A Cruise 254 Leg 3 Sta. 333 Core No. 8PC

Lithologic Log



Detailed Description

the sandy bed over-all appears to be graded coarse on top to a silty clay; chunks of calc ooze and clay are scattered throughout along with pebbles and wood-like fragments
S concave upward

247-250
CALC OOZE
10YR 5/2 grayish brown
silty lutite
thin lams
S concave upward

250-261
CALC OOZE
10YR 6/2 lt brownish gray
sl small mottling, white; marbelling...lutite
S disturbed

261-275
DET
10YR 6/4 lt yellowish brown
det sand and silt with chunks of clay scattered throughou
S concave upward

275-286
CALC OOZE
10YR 6/2 lt brownish gray ..lutite
S horizontal

286-292
CALC OOZE
10YR 8/1 white
common mottling, lt gray..lutite
end of core

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

Ship: Atlantis Core No. 8 PC

Expedition 254 Station No. 333

Leg No. 3 Total Core Length 292 cm

LEVEL	SEDIMENT TYPE	ESTIMATED 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				45	6	40			7			1
100 cm	calc ooze	3	1	2		50	5	38	tr					1
174 cm	det	85	tr		8	1	2	1			3			tr
180 cm	calc ooze	8			3	40	7	40			2			tr
207 cm	det/clay	40/25			2	25		tr			8			
225 cm	calc ooze	tr			1	56	6	32			5			
237 cm	det	85/5 silt			2	7		tr			1			
280 cm	sl calc clay/ det	25/15			12	35		tr			3			
291 cm	calc ooze	tr			tr	55	7	30			6			2

VISUAL CORE DESCRIPTION

Page 1 of 1

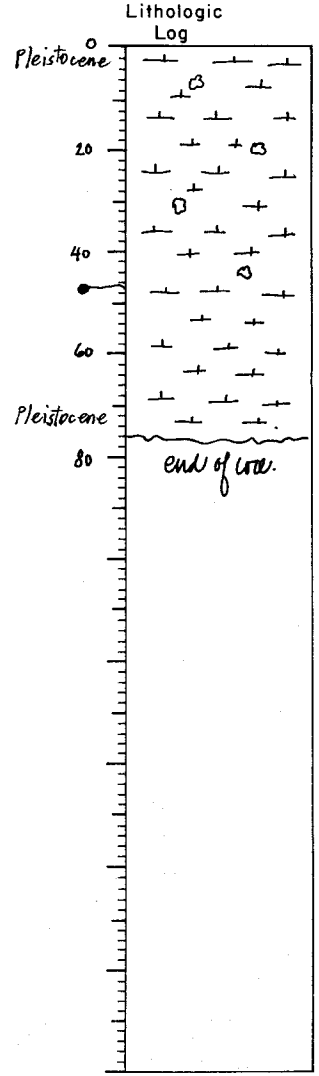
Ship A Cruise 254 Leg 3 Sta. 333 Core No. 8PG

Total Length 76 cm. Lat. 18°29.0'N Long. 86°20.0'W Depth 4402 m. corr.

Core condition POOR: CRACKED 'n DRIED Date Described 19 MAY 1974 by J. BRODA.

Physiographic location off Honduras, Caribbean Sea

Lithologic Log



Detailed Description

0-47
CALC OOZE
10YR 8/2 white
sl, small mottling, v. pale brown
abunt. forams 0-18 cm, scattered 19-47cm
G

47-76
CALC OOZE
10YR 7/3 v. pale brown
scattered forams and large shell fragments
end of core

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

Ship: Atlantis Core No. 8 PG

Expedition 254 Station No. 333

Leg No. 3 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
1 cm	calc ooze					50	15	30		tr	4			1
75 cm	calc ooze	tr		tr		28	12	55			4			1

VISUAL CORE DESCRIPTION

Page 1 of 1

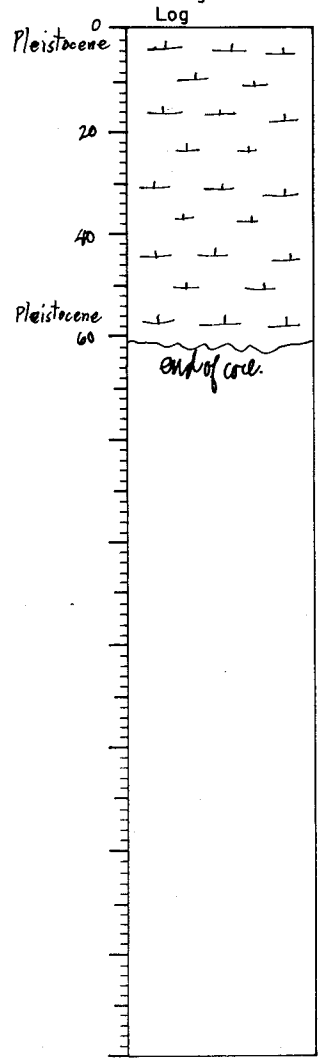
Ship A Cruise 254 Leg 3 Sta. 334 Core No. 9PG

Total Length 61 cm. Lat. 17°52.0'N Long. 86°15.0'W Depth 2440 cm

Core condition POOR.. CRACKED & DRIED. Date Described 15MAY74 by J. Broda.

Physiographic location off Honduras, Caribbean Sea

Lithologic Log



Detailed Description

0-61
CALC OOZE
10YR 8/2 white
scattered forams throughout, except 18-34 cm and 41-43 cm where they are abunt with pteropod fragments
end of core

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

Ship: Atlantis Core No. 9 PG

Expedition 254 Station No. 334

Leg No. 3 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
1 cm	calc ooze					35	15	40	4	tr	5			1
60 cm	calc ooze					30	12	50	2		5			1

VISUAL CORE DESCRIPTION

Page 1 of 1

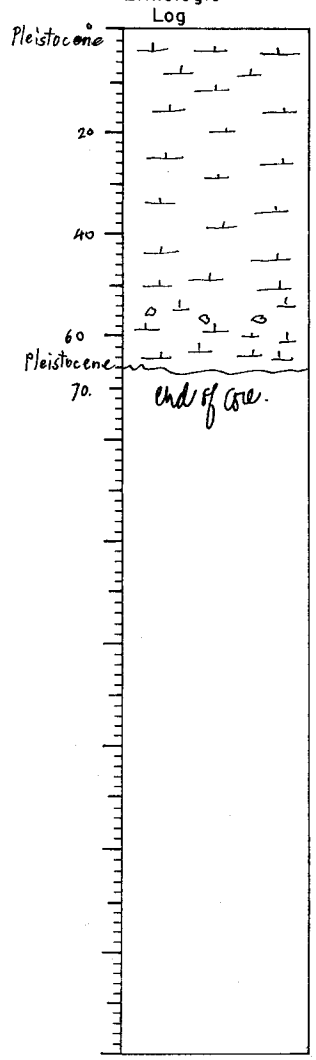
Ship A Cruise 254 Leg 3 Sta. 335 Core No. 10PG

Total Length 66 cm. Lat. 16°29.0'N Long. 86°34.5'W Depth 2791 corr.m.

Core condition POOR.. DRIED.. CRACKED. Date Described 15MAY74 by J.BRODA.

Physiographic location off Honduras, Caribbean Sea

Lithologic Log



Detailed Description

0-66
CALC OOZE
10YR 7/3 v. pale brown
sl, small mottling 55-60 cm, white
scattered 0-29 cm abund. 29-50 cm, and small shell fragments
end of core

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

Ship: Atlantis

Core No. 10 PG

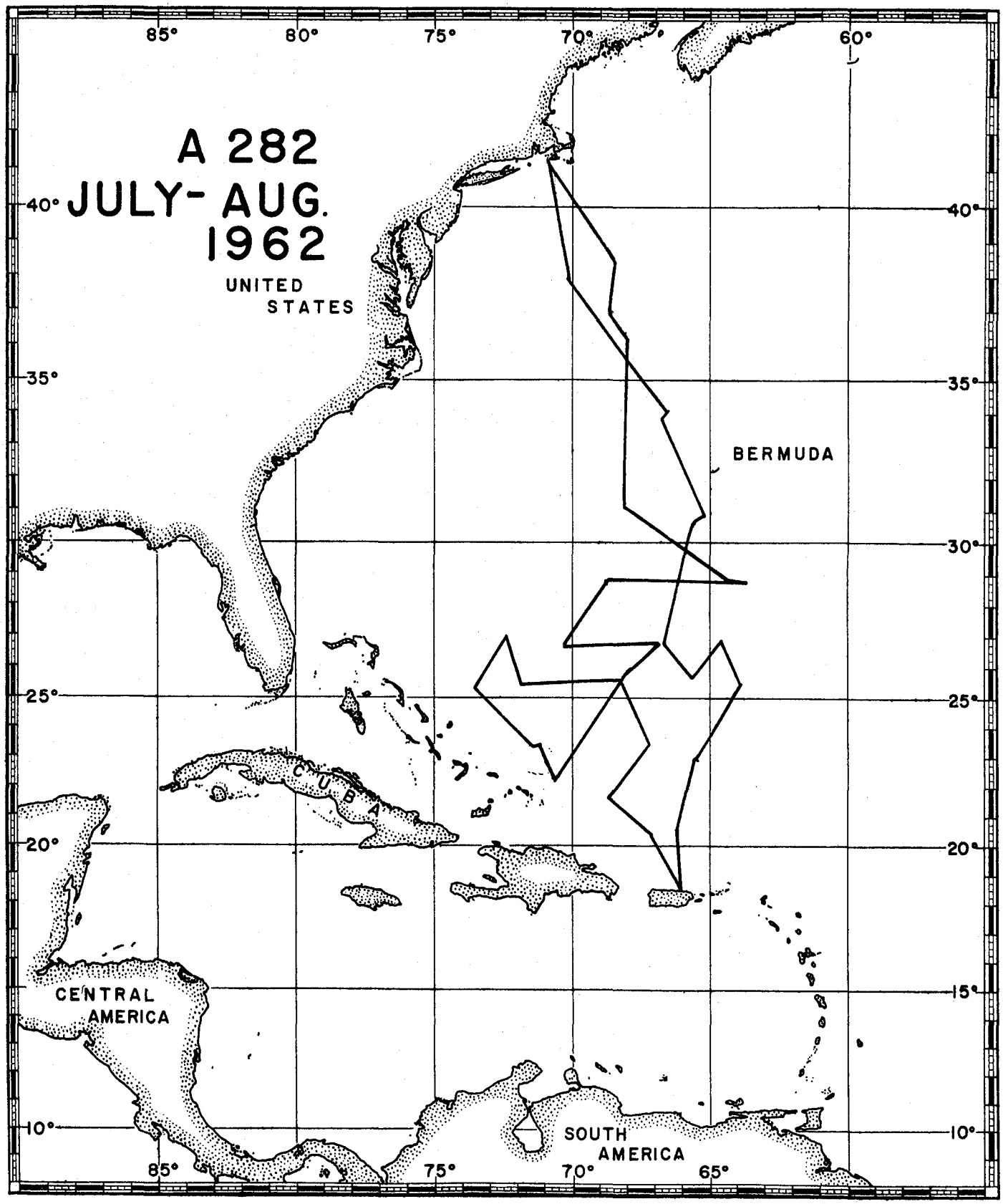
Expedition 254

Station No. 335

Leg No. 3

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
1 cm	calc ooze	tr				50	12	25	2	tr	12			1
65 cm	calc ooze		tr			65	7	20	1		3			1


A 282
JULY- AUG.
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60°
65°
40°
35°
30°
25°
20°
15°
10°

********** STATION DATA RETRIEVAL ********** PAGE 1 OF 1
********** DATE: 06:32 MAY 13,'75 ********** **WH01**

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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	282	1	0001	0000	13	62 712	29.39N	66.22W	5	79.96	0001	5128.	209.	0000	13	4129	0	
ATL	282	1	0001	0000	13	62 711	30.27N	65.45W	5	115.05	001A	4945.	269.	0000	13	3869	0	
ATL	282	1	0002	0000	13	62 713	28.52N	66.51W	5	79.86	0002	5451.	190.	0000	13	3459	0	
ATL	282	1	0003	0000	13	62 716	23.32N	70.02W	5	80.30	0003	5492.	120.	0000	10	4841	0	
ATL	282	1	0005	0000	13	62 717	23.28N	72.18W	5	80.32	0005	5287.	164.	0000	10	4149	0	
ATL	282	1	0006	0000	13	62 718	25.13N	73.16W	5	80.53	0006	5316.	188.	0000	10	4859	0	
ATL	282	1	0007	0000	13	62 719	26.59N	72.13W	5	80.62	0007	5154.	228.	0000	10	4129	0	
ATL	282	1	0008	0000	13	62 720	25.11N	71.16W	5	80.51	0008	5520.	30.	0000	10	4869	0	
ATL	282	1	0009	0000	13	62 721	25.18N	69.01W	5	79.59	0009	5593.	196.	0000	10	4159	0	
ATL	282	1	0010	0000	13	62 722	23.37N	67.54W	5	79.37	0010	5668.	171.	0000	10	4159	0	
ATL	282	1	0011	0000	13	62 723	21.47N	68.51W	5	79.18	0011	5513.	185.	0000	10	1859	0	
ATL	282	1	0012	0000	13	62 724	20.22N	67.23W	5	79.07	0012	5416.	155.	0000	10	4143	0	
ATL	282	1	0013	0000	13	62 729	21.54N	66.37W	5	79.16	0013	5653.	131.	0000	10	4159	0	
ATL	282	1	0014	0000	13	62 730	23.40N	65.37W	5	79.35	0014	5771.	243.	0000	10	1159	0	
ATL	282	1	0015	0000	13	62 731	25.29N	64.34W	5	79.54	0015	5706.	245.	0000	10	1159	0	
ATL	282	1	0016	0000	13	62 8 1	27.10N	65.40W	5	79.75	0016	5413.	197.	0000	13	1453	0	
ATL	282	1	0017	0000	13	62 8 2	25.26N	66.40W	5	79.56	0017	5602.	254.	0000	13	4153	0	
ATL	282	1	0018	0000	13	62 8 2	27.05N	67.56W	5	79.77	0018	5195.	246.	0000	13	1449	0	
ATL	282	1	0019	0000	13	62 8 3	27.04N	70.10W	5	80.70	0019	5482.	113.	0000	13	4249	0	
ATL	282	1	0020	0000	13	62 8 4	28.44N	69.05W	5	79.89	0020	5325.	243.	0000	13	4129	0	
ATL	282	1	0021	0000	13	62 815	28.57N	66.50W	5	79.86	0021	5306.	224.	0000	13	1429	0	
ATL	282	1	0022	0000	13	62 8 6	28.54N	64.39W	5	79.84	0022	4846.	301.	0000	13	3469	0	
ATL	282	1	0023	0000	15	62 8 7	30.27N	67.58W	5	115.07	0023	5188.	437.	0000	13	2379	0	

THERE WERE 23 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

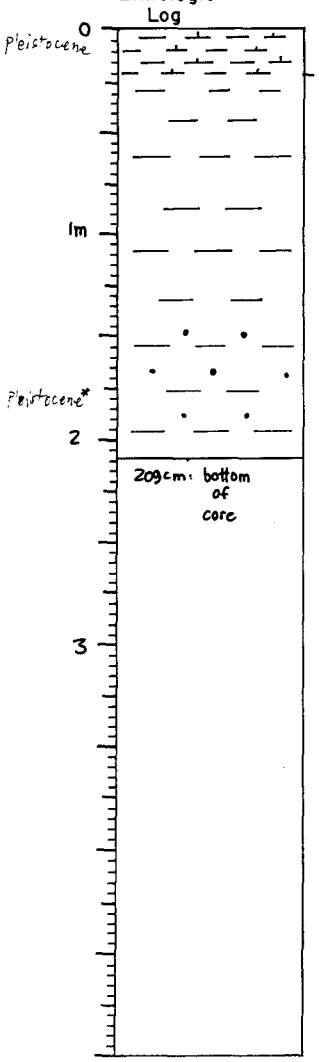
STOP THAT IS ALL FOR NOW
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 1 Core No. 1 GC
Total Length 209 cm. Lat. 29°39 N Long. 66°22 W Depth 5128 m CORR.
Core condition dry; fair Date Described 12 APRIL '74 by G MOUNTAIN
Physiographic location NW NARES ABYSSAL PLAIN

Lithologic Log



Detailed Description

0-26
HLY CALC CLAY
10YR 5/3 brown
firm lutite
total core is homogeneous except for scattered v. dk gray specks (Mn?)
G

26-209
UNFOSS CLAY WITH Mn
10YR 3/3 dk brown
firm lutite
this unit grades sl dk with depth
end of core

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

Ship: Atlantis Core No. 1 GC
Expedition 282 Station No. 1
Leg No. ___ Total Core Length 209 cm

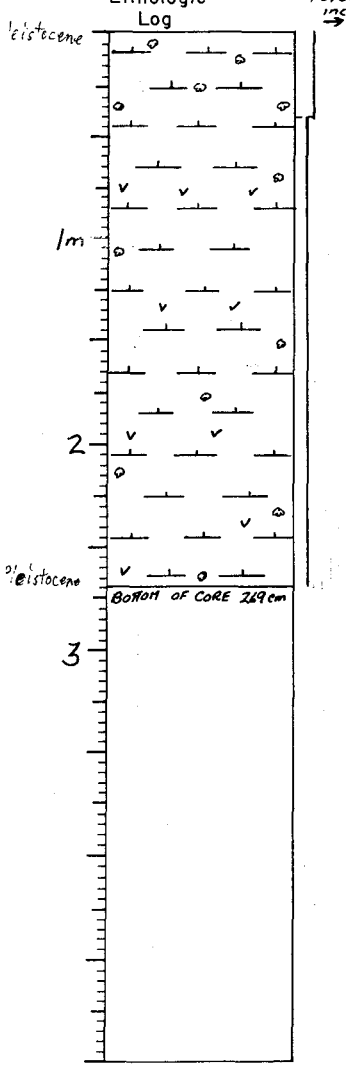
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3 cm	hly calc clay		10	tr		62	5	20		tr	3			
100 cm	unfoss clay with Mn	tr	20	2		78								
206 cm	unfoss clay with Mn	tr	20	2		78								

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 1A Core No. 1AGC
Total Length 269 cm cm. Lat. 30° 27'N Long. 65°45'W Depth 4945 corr m
Core condition dry, hard; fair Date Described 8 May 74 by B McGirr
Physiographic location NW Nares Abyssal Plain

Lithologic Log



Forams inc →

Detailed Description

0-41
CALC OOZE
10YR 4/2 dk grayish brown
common mottling throughout, white
sl silty lutite, few forams
dry throughout, somewhat crumbly at lower end
G

41-269
CALC OOZE AND CALC OOZE/VOLC ASH
10YR 8/2, 7/3 white and v. pale brown
scattered mottling (in places) throughout unit
lutite
unit v. dry and somewhat crumbly throughout, lt and dk colors randomly mixed
S
Note; The volc ash found in the smear slides may macroscopically exist as thin, volc ash beds or larger area with ash spread throughout. Visually, there is no indication of the actual distribution of the ash.
end of core

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

Ship: Atlantis Core No. 1AGC
Expedition 282 Station No. 1 A
Leg No. ___ Total Core Length 269 cm

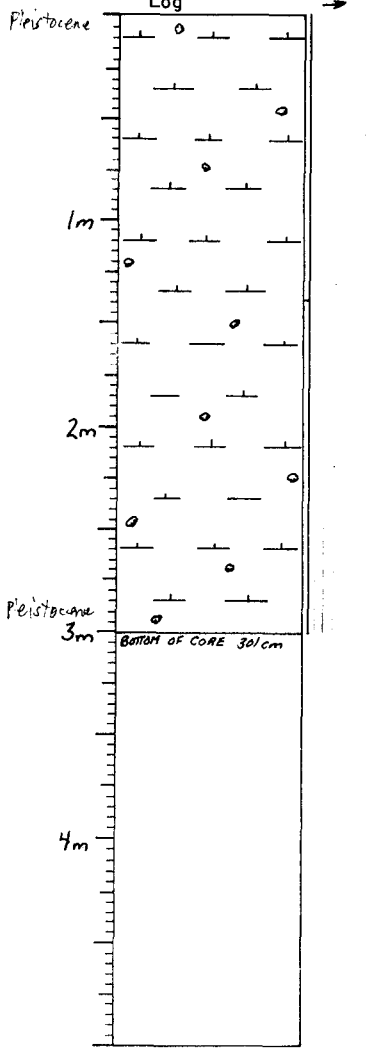
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	1 cm	calc ooze	5	3		1	37	8	40		tr	5			
8	90 cm	calc ooze	2	2		tr	6	3	70		1	8			
5	170 cm	calc ooze/ volc ash	3	1		35	4	4	43		tr	5			
1	268 cm	calc ooze	4	4		2	10	5	66		tr	10			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 22 Core No. 22GC (HF)
Total Length 301 cm. Lat. 28° 54'N Long. 64° 39'W Depth 4846 corr m
Core condition dry, hard; fair Date Described 5/15/74 by B McGirr
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-139
CALC OOZE
10YR 7/3 v. pale brown
scattered mottling throughout
dry, hard lutite
v. dry hard, and crumbled condition may mask core features
S

139-301
HLY CALC CLAY AND CALC OOZE
10YR 3/3, 4/3 dk brown
scattered mottling throughout, brown
somewhat dry, sl silty lutite
S

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

Ship: Atlantis Core No. 22 GC (HF)
Expedition 282 Station No. 22
Leg No. ____ Total Core Length 301 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	calc ooze	5	5		2	41	10	30			5			
1	150 cm	hly calc clay	3	5		2	72	2	10			5			
3	300 cm	calc ooze	2	5		1	27	2	50			10			

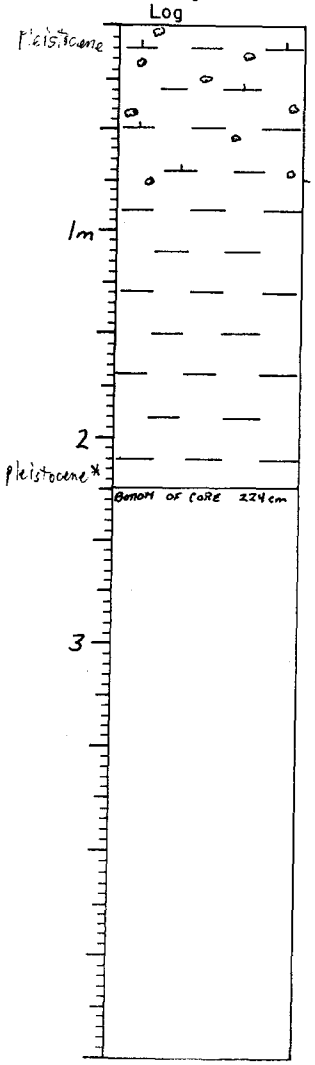
0238

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 21 Core No. 21 GC (HF)
Total Length 224 cm. Lat. 28° 51' N Long. 66° 50' W Depth 5306 corr m
Core condition very dry, hard; fair Date Described 14 May 74 by B McGirr
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-75
CALC CLAY
10YR 3/3 dk brown
common mottling 0-40 cm, scattered 40-75 cm
dry hard lutite
entire core is dry, hard and pretty much crumbled
G

75-224
UNFOSS CLAY
10YR 6/3 pale brown
dry hard lutite

0239

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

Ship: Atlantis Core No. 21 GC (HF)
Expedition 282 Station No. 21
Leg No. ___ Total Core Length 224 cm

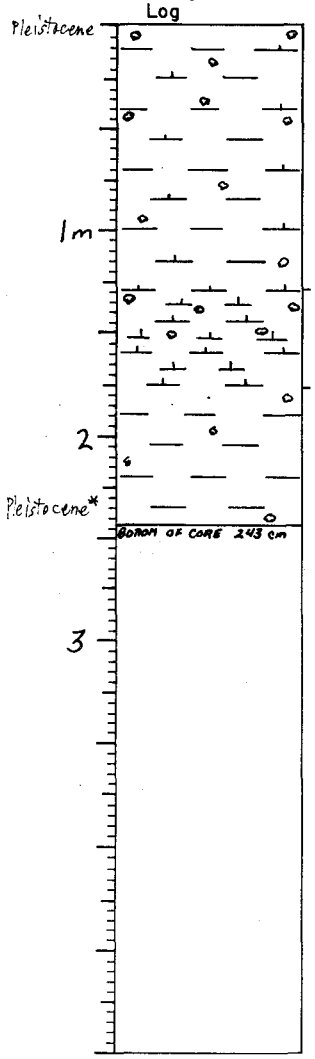
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	1 cm	calc clay	13	5		2	72	3	3		tr	1			
1	100 cm	unfoss clay	5	4		2	88								
2	223 cm	unfoss clay	8	5		1	84								

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 20 Core No. 20 GC (HF)
Total Length 243 cm. Lat. 28° 44'N Long. 69°05'W Depth 5325 corr m
Core condition dry, hard; fair Date Described 14 May 74 by B McGuir
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-128
SL CALC CLAY
10YR 6/3 pale brown
scattered mottling throughout, common 0-40 cm
dry hard lutite
S

128-176
CALC OOZE
10YR 7/2 lt gray
scattered mottling throughout, common 130-150 cm
dry, hard lutite
G

176-243
UNFOSS CLAY
10YR 6/3 pale brown
scattered mottling throughout
dry, hard lutite
S

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

Ship: Atlantis Core No. 20 GC (HF)
Expedition 282 Station No. 20
Leg No. ____ Total Core Length 243 cm

	LEVEL	SEDIMENT TYPE	ESTIMATED 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	sl calc clay	4	5		2	80	tr	3		tr	2			tr
2	140 cm	calc ooze	4	3		1	46	1	40			3			
2	242 cm	unfoss clay	10	4		1	83								

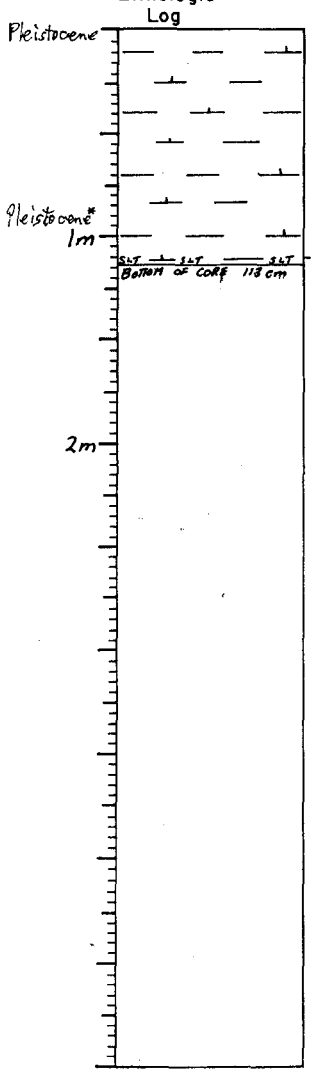
0234

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 19 Core No. 19 GC (HF)
Total Length 113 cm. Lat. 27° 04'N Long. 70° 10'W Depth 5482 corrm
Core condition very dry, hard; fair Date Described 14 May 74 by B McGior
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-110
SL CALC CLAY
2.5Y 6/2 lt brownish gray
dry, hard lutite
faint, thin horizontal lams 0-40 cm, core v. dry and hard
somewhat crumbly throughout
S irregular
110-113
SL CALC CLAY/DET
2.5Y 6/2 lt brownish gray
dry, hard silty lutite
S

0235

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

Ship: Atlantis Core No. 19 GC (HF)
Expedition 282 Station No. 19
Leg No. ____ Total Core Length 113 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
4	1 cm	sl calc clay	6	4		2	79		4		tr	1			tr
5	100 cm	sl calc clay	8	2		1	82		2						
5	112 cm	sl calc clay/ det	70	1		2	17	1	2			2			

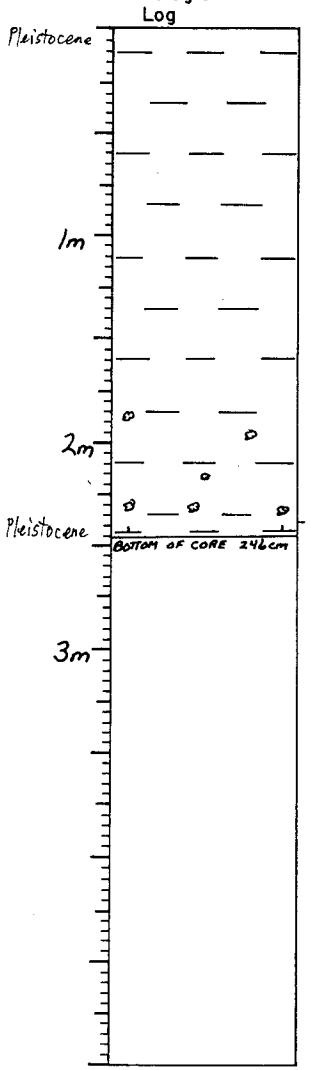
0232

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 18 Core No. 18 GC(HF)
Total Length 246 cm. Lat. 27° 05'N Long. 67° 56'W Depth 5195 corr m
Core condition very dry, hard; fair-poor Date Described 14 May 74 by B McGirr
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-243
UNFOSS CLAY
10YR 4/3, 3/2 brown and v. dk grayish brown
scattered mottling increasing to abunt., pale brown
dry, hard lutite
core v. dry, and hard, somewhat more moist 132-200 cm, entire core somewhat crumbly and disturbed
S irregular
243-246
HLY CALC CLAY
10YR 6/3 pale brown
dry, hard lutite
S

0233

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

Ship: Atlantis Core No. 18 GC (HF)
Expedition 282 Station No. 18
Leg No. ____ Total Core Length 246 cm

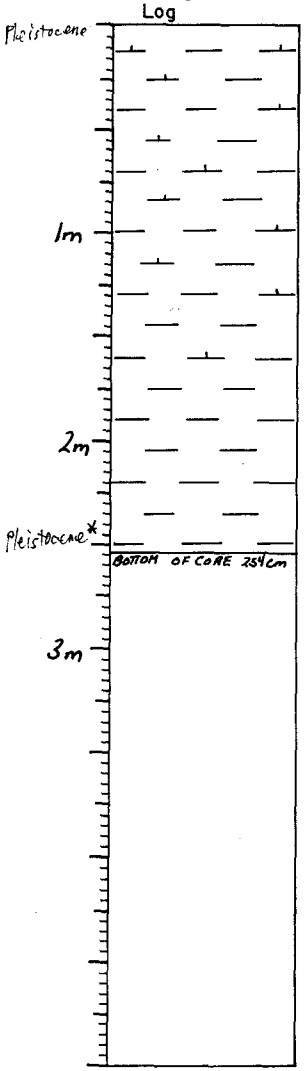
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1	1 cm	unfoss clay	4	12		3	80								
1	150 cm	unfoss clay	4	10		1	84								
1	245 cm	hly calc clay	4	10		1	66	3	10			5			

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 17 Core No. 17GC (HF)
Total Length 254 cm. Lat. 25° 26.5' N Long. 66° 40' W Depth 5602 corrm
Core condition very dry, hard; fair Date Described 13 May 74 by B McGirr
Physiographic location S Bermuda Rise

Lithologic Log



Detailed Description

0-254
SL CALC CLAY TO UNFOSS CLAY
10YR 5/3 brown
dry, hard lutite
core disturbed and may mask core features
S

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

Ship: Atlantis Core No. 17 GC (HF)
Expedition 282 Station No. 17
Leg No. ___ Total Core Length 254 cm

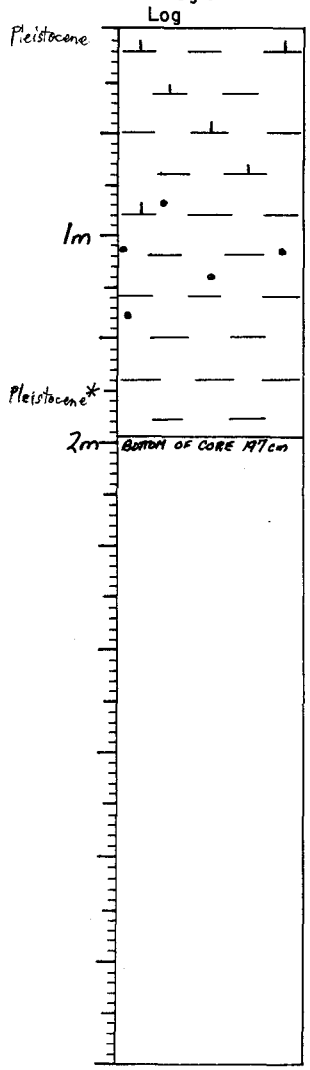
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	1 cm	sl calc clay	7	15		3	67	1	2			2			
1	100 cm	sl calc clay	10	10		1	76	1				1			
1	253 cm	unfoss clay	7	10		1	81								

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 16 Core No. 16 GC(HF)
Total Length 197 cm. Lat. 27° 10' N Long. 65° 40' W Depth 5413 corr m
Core condition very dry, hard; fair-poor Date Described 13 May 74 by B McGirr
Physiographic location S Bermuda Rise

Lithologic Log



Detailed Description

0-197
CALC CLAY TO CLAY
10YR 5/3 brown
dry hard sl silty lutite
Mn nodules scattered 80-135 cm, upto 1 cm in diameter, Mn micros to bottom of core
S

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

Ship: Atlantis Core No. 16 GC (HF)
Expedition 282 Station No. 16
Leg No. ____ Total Core Length 197 cm

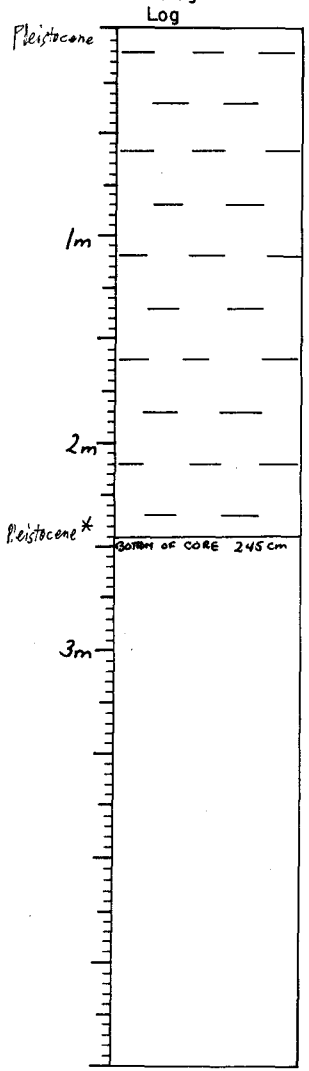
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	1 cm	calc clay	5	2		tr	80	2	5			3			
2	100 cm	unfoss clay	5	4		tr	89								
1	196 cm	unfoss clay	2	8		tr	89	tr							

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 15 Core No. 15 GC (HF)
Total Length 245 cm. Lat. 25° 29' N Long. 64° 34' W Depth 5706 corrm
Core condition very dry, hard; fair-poor Date Described 13 May 74 by B McGirr
Physiographic location Nares Abyssal Plain

Lithologic Log



Detailed Description

0-245
UNFOSS CLAY
10YR 5/3, 4/2 brown and dk grayish brown 80-120 cm
firm sl silty lutite
core v. dry and hard, somewhat crumbly, core condition may mask special features
S

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

Ship: Atlantis Core No. 15 GC (HF)
Expedition 282 Station No. 15
Leg No. ____ Total Core Length 245 cm

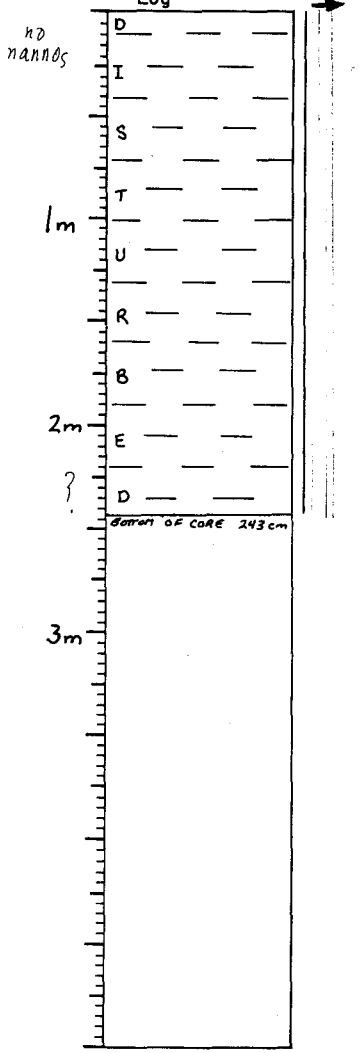
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
3	1 cm	unfoss clay	8	4		1	84								
2	100 cm	unfoss clay	7	8		tr	83								
4	244 cm	unfoss clay	4	5		tr	87								

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 14 Core No. 14 GC (HF)
Total Length 243 cm. Lat. 23° 40'N Long. 45° 37'W Depth 5771 corr m
Core condition very dry; poor Date Described 4/12/74 by B McGirr
Physiographic location Naces Abyssal Plain

Lithologic Log



Detailed Description

0-243
UNFOSS CLAY
10YR 5/3 brown
some indication of small black mottles throughout, core really too dry to tell except for a few cm's at top of each section
firm lutite
entire core is extremely dry and hard, color is lt brown where core is drier, disturbed throughout, core liner is split in half, but core has only small slice taken out, essentially entire core has not been split
S

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

Ship: Atlantis Core No. 14 GC (HF)
Expedition 282 Station No. 14
Leg No. ____ Total Core Length 243 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	10	2		tr	86					tr			tr
1	130 cm	unfoss clay	10	3		tr	84					tr			
1	242 cm	unfoss clay	8	5		tr	86					tr			

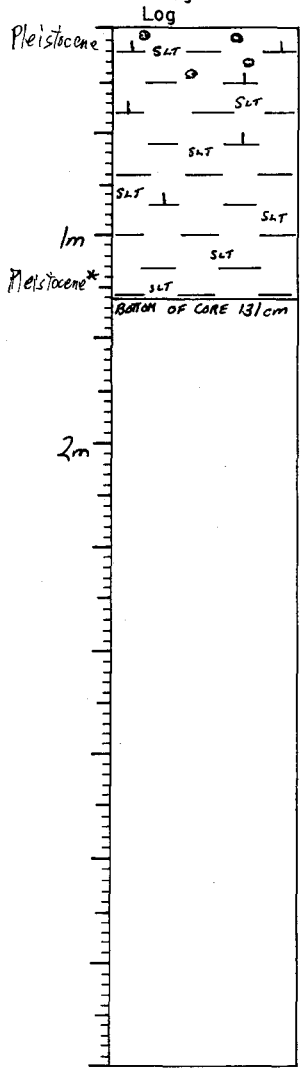
0222

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 13 Core No. 13 GC(HF)
Total Length 131 cm. Lat. 21° 54' N Long. 66° 37' W Depth 5657 corrm
Core condition very dry; fair-poor Date Described 10May74 by B McGirr
Physiographic location Nares Abyssal Plain

Lithologic Log



Detailed Description

0-131
CALC CLAY WITH DET TO CLAY WITH DET
10YR 4/2, 5/3 dk grayish brown and brown
common mottling, 0-20 cm
firm sl silty lutite
dk brown occurs in central strip, with lt color along outside edges
S

0223

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

Ship: Atlantis Core No. 13 GC (HF)
Expedition 282 Station No. 13
Leg No. ___ Total Core Length 131 cm

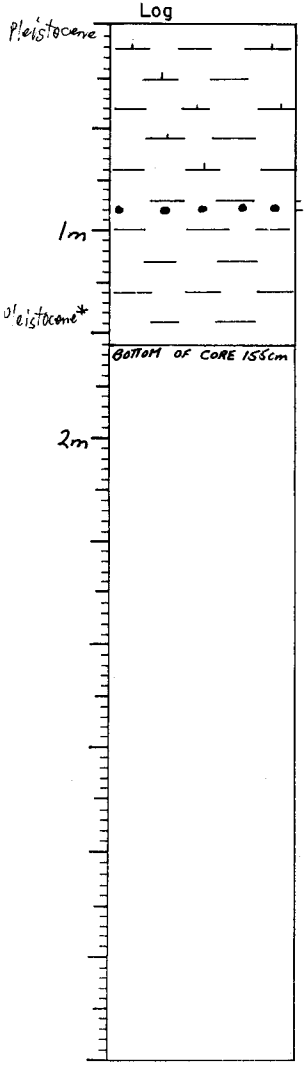
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	1 cm	calc clay with det	25	5		1	60		4			3			tr
2	130 cm	clay with det	20	10		1	65					2			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 12 Core No. 12 GC (HF)
Total Length 155 cm. Lat. 20° 22' N Long. 67° 23' W Depth 5416 corr m
Core condition very dry; fair - poor Date Described 10 May 74 by B McGirr
Physiographic location Nares Abyssal Plain

Lithologic Log



Detailed Description

0-85
CALC CLAY
10YR 6/3 pale brown
sl silty lutite
v. dry hard somewhat crumbly, difficult to see any features
S irregular

85-89
Mn NODULES
small pebbles, up to 1 cm in diameter
S irregular

89-155
UNFOSS CLAY
10YR 6/3 pale brown
sl silty lutite
v. dry, hard somewhat crumbly. poor condition may mask some features small, black specks at 90-100 cm, (broken Mn)
S

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

Ship: Atlantis Core No. 12 GC (HF)
Expedition 282 Station No. 12
Leg No. ____ Total Core Length 155 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	calc clay	15	4		1	60	3	10			4			tr
3	154 cm	unfoss clay	8	4		1	84								

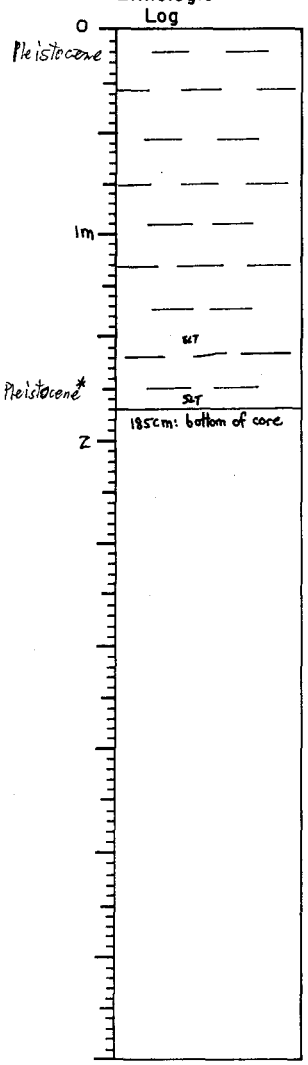
0218

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 11 Core No. 11 GC (HF)
Total Length 185 cm. Lat. 21°47.0'N Long. 68°51.1'W Depth 5513 m CORR.
Core condition dry, fragmented, poor Date Described 12 APR '74 by G MOUNTAIN
Physiographic location NARES ABYSSAL PLAIN

Lithologic Log



Detailed Description

0-185
UNFOSS CLAY WITH DET SILT INCREASING DOWNWARDS
10YR 5/3 brown
scattered mottling, pale brown, mottling, where possible to see it
hard fragmented silty lutite
core v. dry and fragmented, visual description of minimal value

0219

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

Ship: Atlantis Core No. 11 GC (HF)
Expedition 282 Station No. 11
Leg No. ____ Total Core Length 185 cm

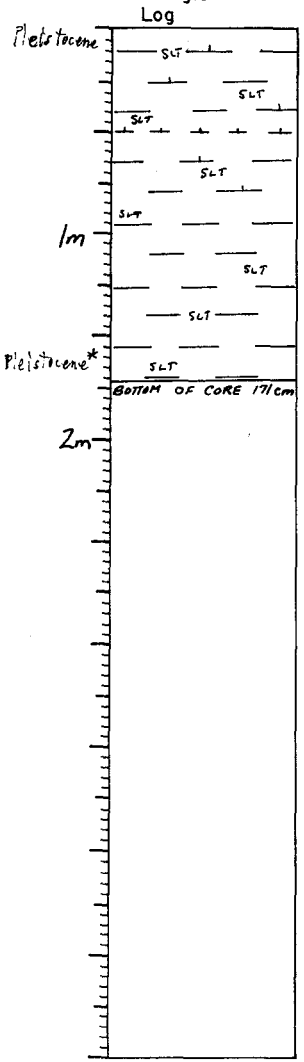
Pyrite	LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
			Inorganic Material					Biogenous Material							
			Silt & Sand					Calcareous					Siliceous		
			Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
2	10 cm	unfoss clay with det	27	5		1	65								tr
2	95 cm	unfoss clay with det	27	5		1	65		tr				tr		
2	180 cm	det silt	65	5		tr	28	tr	tr				tr	tr	tr

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 10 Core No. 10 GC (HF)
Total Length 171 cm. Lat. 23° 37'N Long. 67°54'W Depth 5668 corr m
Core condition very dry; poor Date Described 9 May 74 by B McGirr
Physiographic location Naces Abyssal Plain

Lithologic Log



Detailed Description

0-171
SL CALC CLAY WITH DET TO UNFOSS CLAY WITH DET
10YR 6/3 pale brown
dry, hard sl silty lutite
core v. dry and hard.crumbled throughout, difficult to see original features due to poor condition, white lutite laye 49-50 cm sharp contacts
S

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

Ship: Atlantis Core No. 10 GC (HF)
Expedition 282 Station No. 10
Leg No. ___ Total Core Length 171 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	sl calc clay with det	25	4		tr	67		2						
2	49 cm	calc ooze	5	1		2	5	3	2		tr	80			tr
2	100 cm	unfoss clay with det	20	4		1	73								
5	170 cm	unfoss clay with det	25	2		1	67								

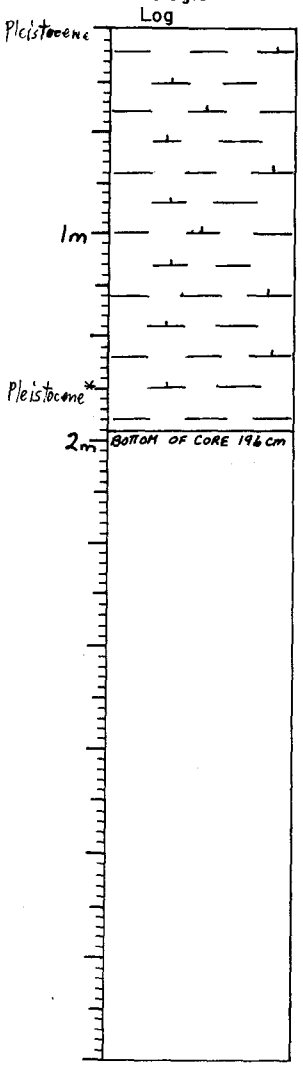
0214

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 9 Core No. 9GC (HF)
Total Length 196 cm. Lat. 25° 18'N Long. 69° 01'W Depth 5593 corrm
Core condition very dry, hard; fair-poor Date Described 9 May 74 by B McGuir
Physiographic location Nares Abyssal Plain

Lithologic Log



Detailed Description

0-196
SL CALC CLAY TO UNFOSS CLAY
10YR 7/1 lt gray
dry, silty lutite
core split previously but two halves since welded back together, core v. dry and hard, and real stratigraphic markers may be hidden by the core condition
S

0215

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

Ship: Atlantis Core No. 9 GC (HF)
Expedition 282 Station No. 9
Leg No. ___ Total Core Length 196 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 calc clay	7	2		3	83		2						
2	100 cm	sl calc clay	10	tr		1	86		1						
3	195 cm	unfoss clay	7	5		1	84								

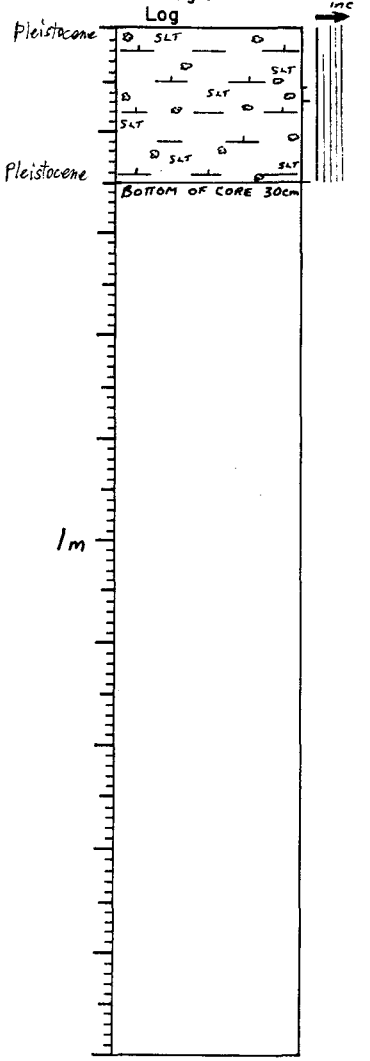
0212

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 8 Core No. 8 GC (HF)
Total Length 30 cm. Lat. 25° 11'N Long. 71° 16'W Depth 5520 corr m
Core condition fairly moist; good Date Described 4/12/74 by B McGirr
Physiographic location Near boundary, Hatteras - Nares Abyssal Plains

Lithologic Log



Detailed Description

0-11
CALC CLAY WITH DET
10YR 4/2 dk grayish brown
scattered mottling throughout, dk gray
firm lutite
entire core disturbed
S irregular

11- 30
CALC CLAY WITH DET
10YR 4/2 dk grayish brown
scattered mottling throughout
firm lutite
S

0213

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

Ship: Atlantis Core No. 8 GC (HF)
Expedition 282 Station No. 8
Leg No. ____ Total Core Length 30 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	calc clay with det	30	tr		3	55	tr	8			2			tr
2	13 cm	calc clay with det	25	3		3	55		10			2			tr
2	29 cm	calc clay with det	25	2		2	55		12		tr	2			tr

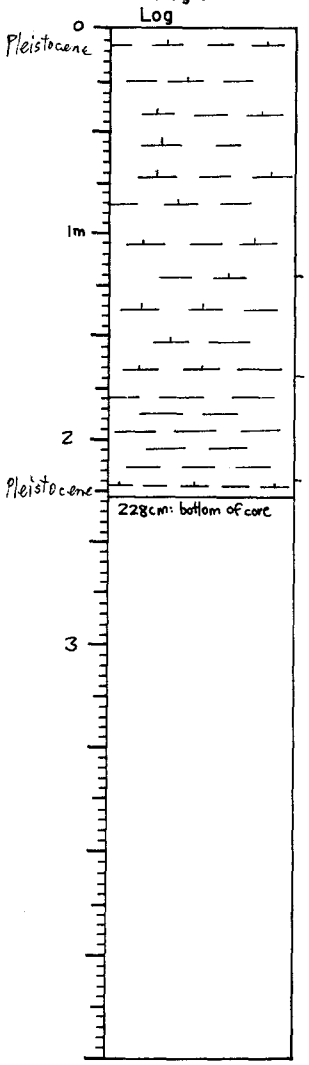
0210

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 7 Core No. 7GC (HF)
Total Length 228 cm. Lat. 26°59'N Long. 72°13'W Depth 5154 m corr.
Core condition dry, fragmented, poor Date Described 12 APRIL '74 by G Mountain
Physiographic location HATTERAS ABYSSAL PLAIN

Lithologic Log



Detailed Description

0-121
HLY CALC CLAY WITH DET
10YR 7/3 v. pale brown
v. difficult to see mottling; v. fine scale lt/dk mottles 70-80 at least
dry, hard drumbly
colors are secondary, visual description of minimal value
numerous fine drying cracks indicate fine lams at 30-40cm

121-170
HLY CALC CLAY
10YR 4/2 grayish brown
v. faint gray mottling
firm sl moist, silty lutite
G

170-220
UNFOSS CLAY
10YR 4/1 dk gray
firm sl moist, silty lutite
homogeneous
G

220-228
HLY CALC CLAY WITH DET
10YR 7/1 lt gray
dry, hard crumbling silty lutite

0211

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

Ship: Atlantis Core No. 7 GC (HF)
Expedition 282 Station No. 7
Leg No. ____ Total Core Length 228 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	6 cm	hly calc clay with det.	20	10			37	5	20			5			tr
3	130 cm	hly calc clay	5	4	1		66		20		tr	1			
3	180 cm	unfoss clay	10		1	1	83					2			
5	220 cm	hly calc clay with det	20	5		1	39		15			15	tr		

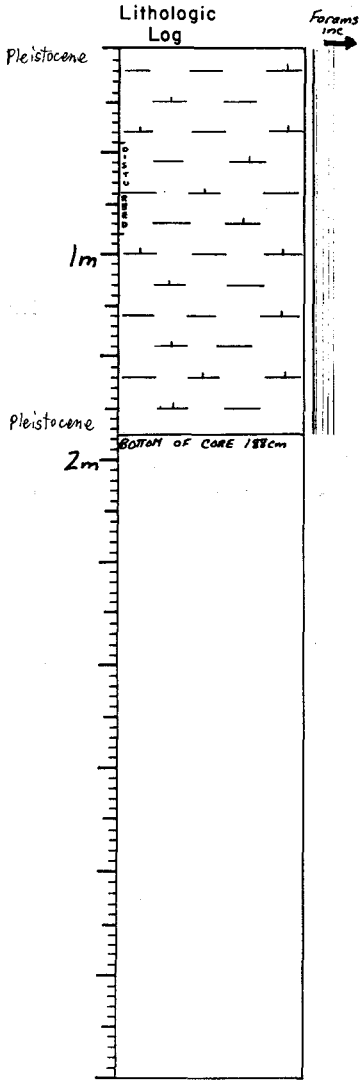
0208

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 6 Core No. 6 GC (HF)
Total Length 188 cm. Lat. 25° 13.5'N Long. 73° 12'W Depth 5316 corr m
Core condition very dry, hard; poor Date Described 4/12/74 by B McGirr
Physiographic location Hatteras Abyssal Plain, NE of Bahamas

Lithologic Log



Detailed Description

0-188
CALC CLAY WITH DET TO SL CALC CLAY WITH DET
10YR 6/2 lt brownish gray
firm lutite
v. dry hard throughout, dessication cracks throughout
disturbed 45-90 cm, dk thick layer at 128cm, sl color
variations throughout core
S

0209

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

Ship: Atlantis Core No. 6 GC
Expedition 282 Station No. 6
Leg No. ____ Total Core Length 188 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
1	1 cm	calc clay with det	25	3		2	58		10			1			tr
1	100 cm	sl calc clay with det	20	2		3	71		3						
1	187 cm	calc clay with det	18	tr		1	69	1	8		tr	2			

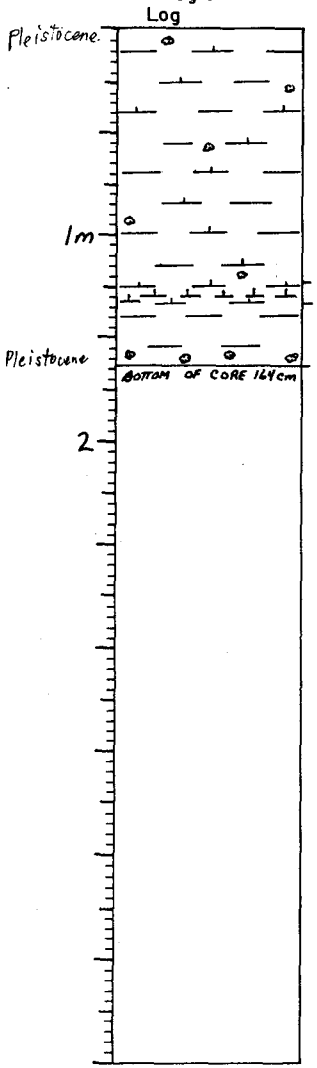
0206

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 5 Core No. 5 GC (HF)
Total Length 164 cm. Lat. 23° 28' N Long. 77° 18.5' W Depth 5287 corrm
Core condition dry, hard ; fair Date Described 9 May 74 by B McGirr
Physiographic location North of Eastern Bahamas

Lithologic Log



Detailed Description

0-123
CALC CLAY
10YR 7/2 6/3, lt gray and pale brown
scattered mottling in places
dry si silty lutite
faint, thin horizontal lams present in places, unit homogeneous in other places
S irregular

123-134
CALC OOZE
10YR 8/1 white
dry silt
S irregular

134-164
UNFOSS CLAY
10YR 6/2 lt brownish gray
extensive mottling, 155-164 cm
dry, sl silty lutite
S

0207

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

Ship: Atlantis Core No. 5 GC (HF)
Expedition 282 Station No. 5
Leg No. ____ Total Core Length 164 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	calc clay	12	3		tr	70	1	10			2			
3	115 cm	calc clay	15	1		1	69	tr	10			1			
	130 cm	calc ooze	10			tr	5	30		tr		55			tr
5	164 cm	unfoss clay	15	1		tr	79						tr		tr

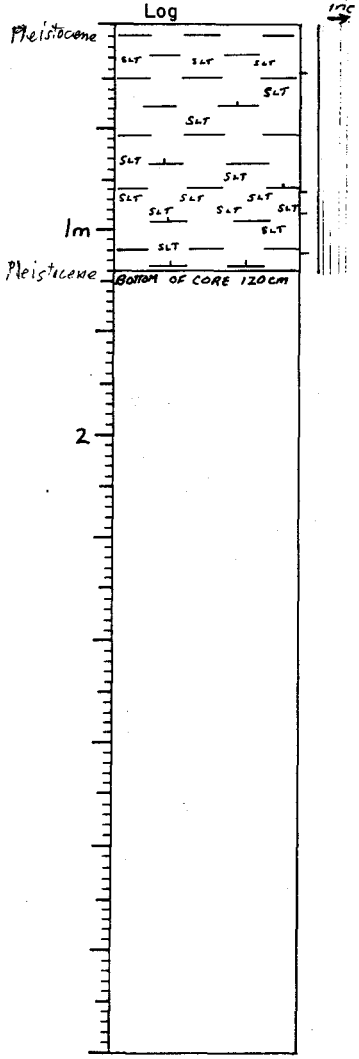
0204

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 3 Core No. 3GC (HF)
Total Length 120 cm. Lat. 23° 32.5'N Long. 70° 02'W Depth 5492 corr m
Core condition fairly moist; good Date Described 9 May 74 by B McGuir
Physiographic location Hatteras Abyssal Plain

Lithologic Log



Detailed Description

0-22
UNFOSS CLAY (DET 15-16 cm)
10YR 4/2 dk grayish brown
firm lutite
1 cm thick layer, irregular in shape at 16 cm-det, faint v. thin horizontal lams
G

22-81
SL CALC CLAY WITH DET
10YR 4/1 dk gray
firm lutite
S irregular

81-92
DET
2.5Y 6/2 lt brownish gray
v. silty lutite to silt
faint, v. thin wavy lams throughout, possible graded bedding
S irregular

92-112
SL CALC CLAY WITH DET
10YR 5/2 grayish brown
firm lutite
S irregular

112-120
CALC OOZE
10YR 7/2 lt gray
firm somewhat silty lutite
end of core

0205

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

Ship: Atlantis Core No. 3 GC (HF)
Expedition 282 Station No. 3
Leg No. ____ Total Core Length 120 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	15	8			75								
3	16 cm	det	90	1		4	2								
5	50 cm	sly calc clay with det	25*	2		1	62		5						
2	87 cm	det	90	1		3	2	2							
1	119 cm	calc ooze	2	1			3	2	2	1		85**			3

* mostly det calcite

** probably recrystallized

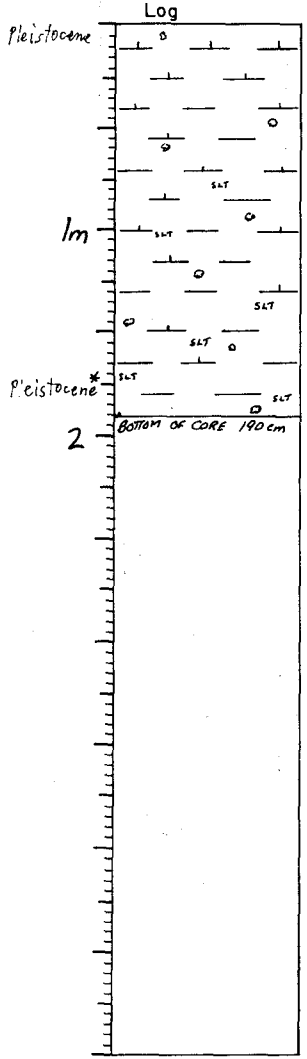
0202

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ___ Sta. 2 Core No. 2GC (HF)
Total Length 190 cm. Lat. 28° 52'N Long. 66° 51'W Depth 5451 corrm
Core condition dry; hard; fair Date Described 8 May 74 by B McGuir
Physiographic location Nares Abyssal Plain (W Margin)

Lithologic Log



Detailed Description

0-190
CALC OOZE TO SL CALC CLAY TO SL CALC CLAY WITH DETRITUS
10YR 5/3 brown
scattered mottling throughout
dry, silty lutite
dry, hard, crumbly core, somewhat disturbed
S
Note; Visually no change in lithology was noted. However the smear slide analysis suggests at least three different units. The basic change, from calc ooze to calc clay, may take place at about 25 cm, where the sediment becomes v. sl dk than above.

0203

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

Ship: Atlantis Core No. 2 GC (HF)
Expedition 282 Station No. 2
Leg No. ___ Total Core Length 190 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	calc ooze	10	5		1	32	5	30		tr	15			
3	100 cm	sl calc clay	10	8		1	75	1	1			1			
2	187 cm	sl calc clay with det	20	3		1	72		1			1			

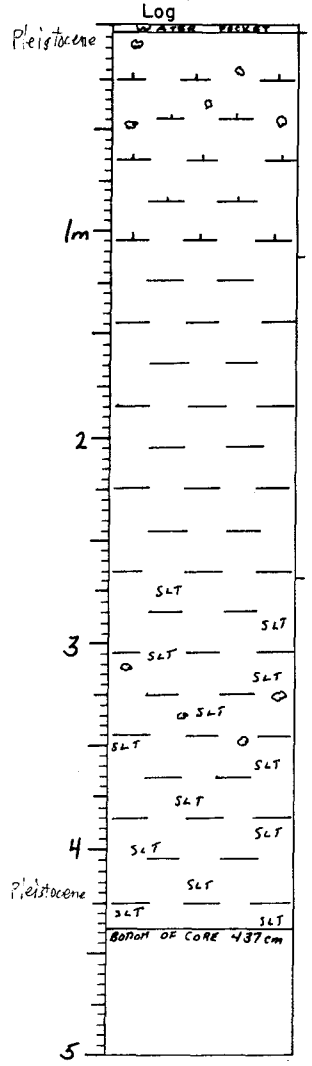
0242

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 282 Leg ____ Sta. 23 Core No. 23 PC
Total Length 437 cm. Lat. 30° 27'N Long. 67° 58'W Depth 5188 corrm
Core condition dry, fair Date Described 15 May 74 by B McGirr
Physiographic location Bermuda Rise

Lithologic Log



Detailed Description

0-2
WATER POCKET
2-113
CALC OOZE
10YR 7/2 lt gray
common mottling, 2-50 cm, v. pale brown
dry, hard lutite, also crumbly
S
113-268
UNFOSS CLAY
10YR 4/2 dk grayish brown
fairly dry, sl silty lutite
somewhat crumbly and disturbed
S
268-437
UNFOSS CLAY/DET
10YR 6/3 pale brown
scattered mottling 300-350 cm
dry, hard silty lutite
somewhat crumbly and disturbed
S

0243

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

Ship: Atlantis Core No. 23 PC
Expedition 282 Station No. 23
Leg No. ____ Total Core Length 437 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	3 cm	calc ooze	8	4		3	38	5	30			10			
4	160 cm	unfoss clay	10	1		5	80								tr
3	300 cm	unfoss clay/det	60	1		5	31								tr
2	436 cm	unfoss clay/ det	35	3		5	55		tr						

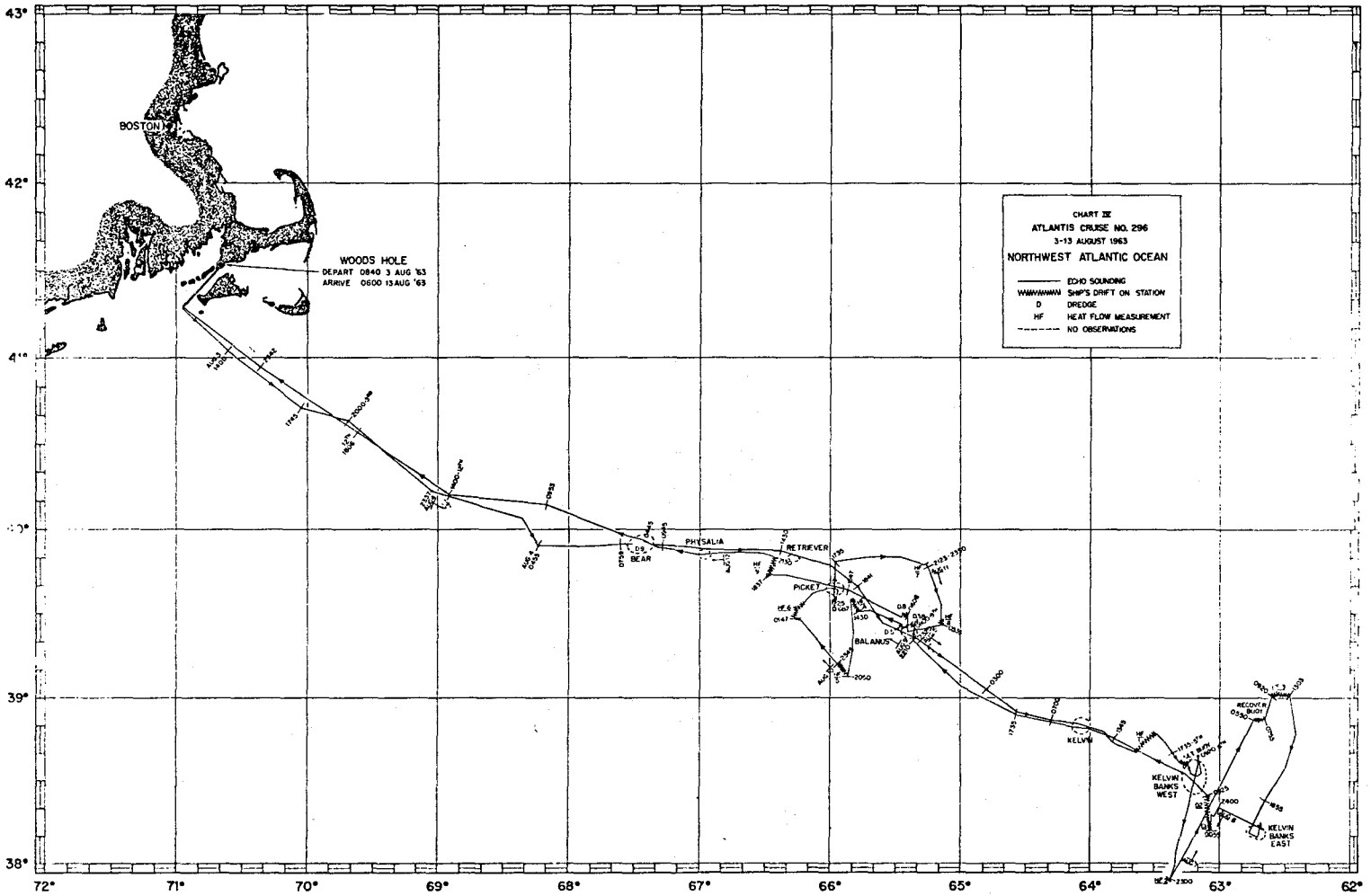


CHART III
ATLANTIS CRUISE NO. 296
3-13 AUGUST 1963
NORTHWEST ATLANTIC OCEAN
ECHO SOUNDING
SHIP'S DRIFT ON STATION
D DREDGE
HF HEAT FLOW MEASUREMENT
NO OBSERVATIONS
BOSTON
WOODS HOLE
DEPART 0840 3 AUG '63
ARRIVE 0600 13 AUG '63
PHYSALIA
RETRIEVER
BEAR
PICKET
BALANUS
KELVIN
KELVIN BANKS WEST
KELVIN BANKS EAST
RECOVER BUOY
43°
42°
41°
40°
39°
38°
72°
71°
70°
69°
68°
67°
66°
65°
64°
63°
62°

********** STATION DATA RETRIEVAL ********** PAGE 1 OF 1
********** DATE: 06:33 MAY 13,1975 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	296	0	0001	0000	13	63 8 5	38.445N	63.340W	5	115.83	0001	5043.	63.	0000	12	8339	0	
ATL	296	0	0002	0000	13	63 8 6	37.530N	63.220W	5	115.73	0002	5043.	46.	0000	12	3839	0	
ATL	296	0	0004	0000	13	63 8 9	39.320N	65.495W	5	115.95	0004	4345.	145.	0000	12	4229	0	
ATL	296	0	0005	0000	13	63 8 9	39.090N	65.540W	5	115.95	0005	4616.	197.	0000	10	4239	0	
ATL	296	0	0006	0000	13	63 8 10	39.330N	66.170W	5	115.93	0006	4340.	187.	0000	10	1339	0	
ATL	296	0	0007	0000	13	63 8 10	39.470N	65.155W	5	115.95	0007	4481.	227.	0000	10	2839	0	
ATL	296	0	0008	0000	13	63 8 11	39.265N	65.090W	5	115.95	0008	4773.	112.	0000	10	2839	0	
ATL	296	0	0009	0000	13	63 8 11	39.460N	66.280W	5	115.96	0009	3940.	180.	0000	10	2839	0	

THERE WERE 8 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

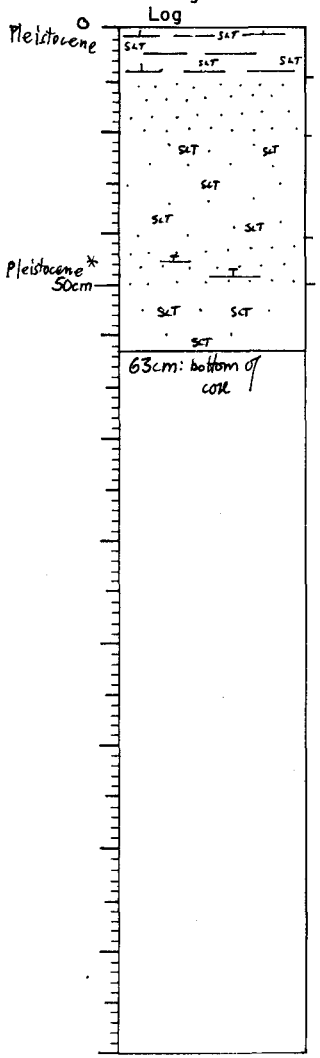
STOP THAT IS ALL FOR NOW
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 296 Leg ___ Sta. 1 Core No. 1GC
Total Length 63 cm. Lat. 38° 44.5' N Long. 63° 34.0' W Depth 5043 m Corr.
Core condition dry, crumbled, fair Date Described 10 MAY 74 by G Mountain
Physiographic location BETWEEN KELVIN SEAMOUNT + KELVIN BANKS

Lithologic Log



Detailed Description

0-9
CALC CLAY/DET
7.5YR 6/2 pinkish gray
hard lutite
S convex upward

9-21
DET SILT AND SAND
7.5YR 6/2 pinkish gray with variously color sand grains
medium sand in fine matrix
G

21-41
DET SILT AND SAND
10YR 7/3 v. pale brown
coarse silt to v. fine sand
S

41-50
DET SAND
10YR 7/2 lt gray with various sand colors
medium to coarse sand, with scattered forams
G

50-63
DET SILT AND SAND
10YR 7/3 v. pale brown
coarse silt to v. fine sand
end of core

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

Ship: Atlantis Core No. 1 GC
Expedition 296 Station No. 1
Leg No. ___ Total Core Length 63 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	calc clay/det	50	7		tr	25					15	tr		tr
	58 cm	det silt/sand	95				5		tr						

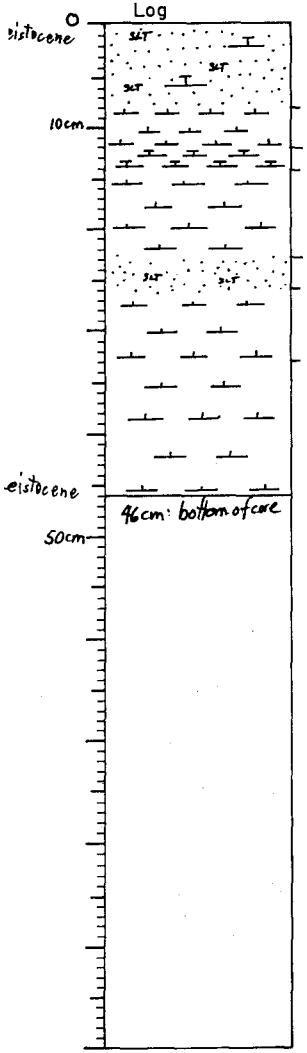
0248

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 296 Leg ___ Sta. 2 Core No. 2GC
Total Length 46 cm. Lat. 37°53.0'N Long. 63°22.0'W Depth 5044 m Corr.
Core condition dry; fair Date Described 13 MAY 74 by G Mountain
Physiographic location South of Kelvin Banks

Lithologic Log



Detailed Description

0-8
DET SILT/SAND; FORAMS
10YR 7/2 lt gray
silty fine sand, v. abunt. forams
S irregular

8-12
CALC OOZE
10YR 7/3 v. pale brown
indurated silty, v. fine sand
S, H

12-14
FORAM SAND
10YR 7/2 lt gray
S irregular

14-23
CALC OOZE
7.5YR 6/2 pinkish gray
dry, cracked silty, v. fine sand
S irregular

23-26
DET SAND
10YR 7/2 lt gray
fine sand, forams common
S, H

26-33
CALC OOZE
10YR 6/3 pale brown
dry, crumbled silty, v. fine sand

33-46
CALC OOZE
10YR 7/2 lt gray
dry, crumbled silty, fine sand, forams common
end of core

NOTE: present condition is marginal for visual description. the above description is taken from a visual done at some earlier time..(aboard ship).

0249

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

Ship: Atlantis Core No. 2 GC
Expedition 296 Station No. 2
Leg No. ___ 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
1 cm	det silt/ sand; forams	75				tr	25	tr						
11 cm	calc ooze	10	3			37	10	20			20			tr

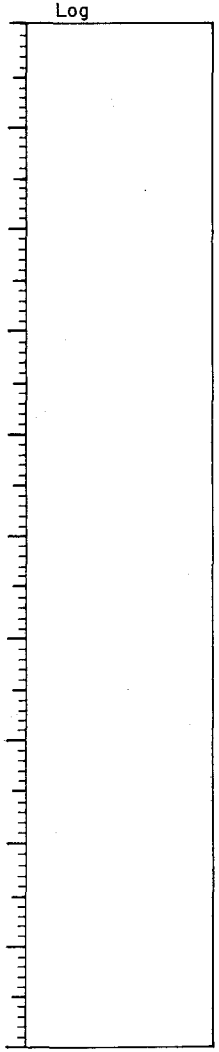
0250

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship Atlantis Cruise 296 Leg ____ Sta. 3 Core No. 3 GC (HP)
Total Length 1 JAR cm. Lat. 39° 01.5' N Long. 62° 32.5' W Depth 5044 corr m
Core condition 1 JAR - hard, not oriented Date Described 7/11/73 by J W Shaw
Physiographic location North of New England Seamount Chain

Lithologic Log



Detailed Description

Few grams of lutite and silt from catcher stored in 1 container.

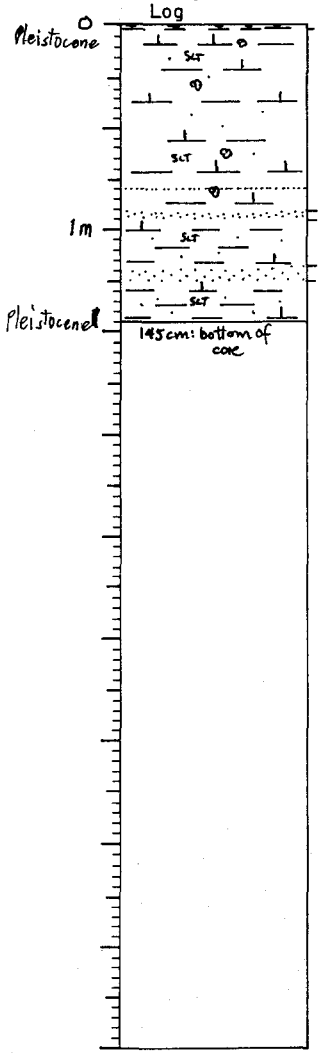
0251

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 296 Leg ____ Sta. 4 Core No. 4GC
Total Length 145 cm. Lat. 39° 32.0' N Long. 65° 49.5' W Depth 4348 m corr.
Core condition dry, fair Date Described 13 MAY '74 by G Mountain
Physiographic location BETWEEN BALANUS + PICKETT SEAMOUNTS

Lithologic Log



Detailed Description

Note; Description taken from one done sometime earlier.

0-2
FORAM SAND
10YR 7/3 v. pale brown

2-91
HLY CALC CLAY WITH DET
2.5Y 6/2 lt brownish gray
when core was moist, scattered irregular mottles were probably present; now v. faint
dry, crumbled silty lutite
fine lam of gray sand at 80 cm

91-95
DET SAND
2.5Y 6/2 lt brownish gray
hard fine sand
when wet this unit was gray

95-118
SL CALC CLAY WITH DET SILT/SAND
2.5Y 5/2 grayish brown
hard lutite with interbedded thin lenses (.1cm) of v. fine sand

118-125
DET SAND
2.5Y 6/2 lt brownish gray
crumbled v. fine sand

125-145
SL CALC CLAY WITH DET SILT/SAND
2.5Y 5/2 grayish brown
hard lutite with interbedded thin lenses of v. fine sand
end of core

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

Ship: Atlantis Core No. 4 GC

Expedition 296 Station No. 4

Leg No. _____ Total Core Length 145 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
10 cm	hly calc clay with det	20	10			50	5	tr			15			tr
93 cm	det sand	99	1											
135 cm	sl calc clay with det	20	10			65		3			2			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

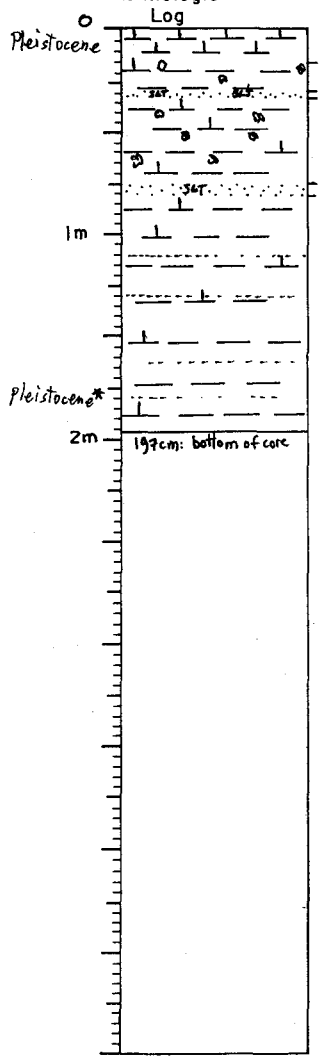
Ship A Cruise 29% Leg ____ Sta. 5 Core No. SGC

Total Length 197 cm. Lat. 39°09.0' N Long. 65°54.0' W Depth 4616 meters

Core condition dry, fair Date Described 13 MAY 74 by G MOUNTAIN

Physiographic location 30 MILES SOUTH OF PICKET SEAMOUNT

Lithologic Log



Detailed Description

0-15
CALC OOZE WITH DET
10YR 6/3 pale brown
firm lutite; abunt. forams
S mottled

15-29
SL CALC CLAY WITH DET
10YR 3/3 dk brown
extensive fine scale mottling, yellowish brown, scattered v. pale brown mottles
firm lutite, silty in upper mottled areas
S inclined

29-33
DET SILT/SAND
10YR 6/2 lt brownish gray
silty v. fine sand
S inclined

33-74
SL CALC CLAY WITH DET
10YR 4/2 dk grayish brown
extensive fine scale mottling, pale brown
dry, cracked silty lutite
S irregular

74-77
DET SAND
2.5Y 6/2 lt brownish gray
dry, v. fine sand
S, H

77-197
SL CALC CLAY WITH DET
10YR 4/2, 7.5Y 5/2, dk grayish brown grades to brown in indurated unit, 170-197 cm
dry, cracked silty lutite
lt gray coarse silt/v. fine sand interbedded lenses 100-197 cm intensely lamed
end of core

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

Ship: Atlantis Core No. 5 GC

Expedition 296 Station No. 5

Leg No. _____ Total Core Length 197 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
	1 cm	calc ooze with det	25	3			17	40	15				tr		tr
7	120 cm	sl calc clay with det	20	3			65		tr			5	tr		tr
5	130 cm	det silt/sand	79	1		5	10		tr			tr			tr
7	190 cm	sl calc clay with det	15	3		tr	70		2			3			tr

VISUAL CORE DESCRIPTION

Page 1 of 1

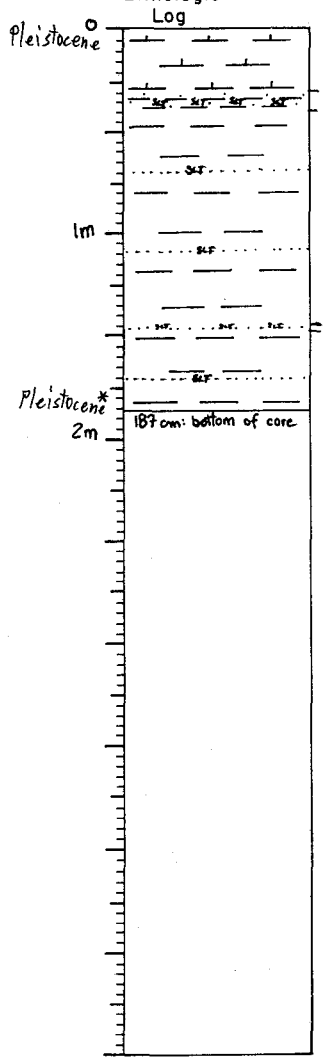
Ship A Cruise 296 Leg ____ Sta. 6 Core No. 6GC

Total Length 187 cm. Lat. 39° 33.0'N Long. 66° 17.0'W Depth 4340 m corr.

Core condition dry; fair Date Described 14 MAY 74 by G Mountain

Physiographic location SW OF PICKET SEAMOUNT

Lithologic Log



Detailed Description

0-29
CALC OOZE
10YR 7/2 lt gray
silty lutite, abunt. forams
S irregular

29-39
UNFOSS CLAY/DET
10YR 6/4 lt yellowish brown
silty lutite
S irregular

39-145
UNFOSS CLAY
10YR 5/2 lt brownish gray
hard, cracked silty lutite
v.finely lam. with lenses of lt gray, reddish brown lams 80-100 cm
S convex upward

145-147
DET SAND
10YR 5/2 lt brownish gray
v fine sand
S convex upward

147-187
UNFOSS CLAY
2.5Y 5/2 grayish brown
hard silty lutite
extensively lam with lt brownish gray, v fine sand/silt
end of core

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

Ship: Atlantis Core No. 8 GC

Expedition 296 Station No. 8

Leg No. _____ Total Core Length 112 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
3	5 cm	calc ooze	15	5		1	31	20	15			10	1	tr	1
3	50 cm	hly silic calc clay/det	35	3		1	40	tr	1			3	10	1	3
3	90 cm	hly silic calc clay/det	35	3		1	40	tr	1			3	10	1	3
5	100 cm	det sand	91	3		1									

VISUAL CORE DESCRIPTION

Page 1 of 1

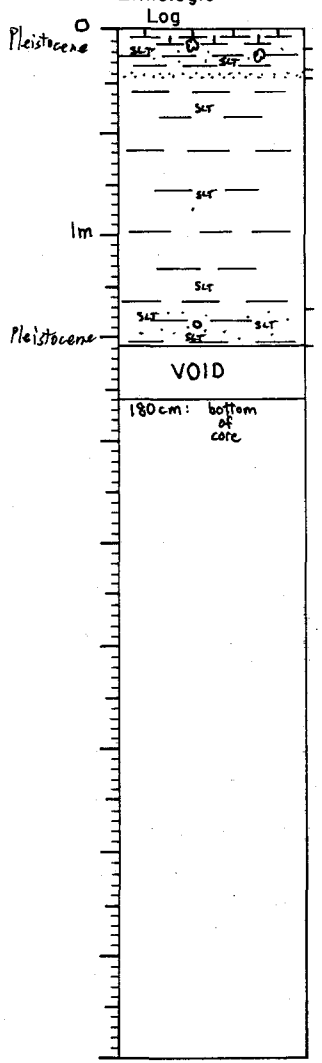
Ship A Cruise 296 Leg ____ Sta. 9 Core No. 9GC

Total Length 180 cm. Lat. 39°46.0'N Long. 66°28.0'W Depth 3940 m corr.

Core condition dry, fair Date Described 15 MAY 74 by G MOUNTAIN

Physiographic location 5-10 MILES SW OF RETREIVER SEAMOUNT

Lithologic Log



Detailed Description

0-9
CALC OOZE
10YR 6/2 lt brownish gray
dry, silty lutite, v. abunt. forams
S irregular

9-19
UNFOSS CLAY/DET
10YR 5/4 yellowish brown
scattered mottling, grayish brown and brown
dry silt
S irregular

19-23
DET SAND
10YR 6/2 lt brownish gray
S irregular

23-136
UNFOSS CLAY WITH DET
10YR 6/2 lt brownish gray
dry, cracked silty lutite
layers of reddish brown lutite, esp. 50-80 cm
S irregular

136-154
UNFOSS CLAY/DET
10YR 6/2 lt brownish gray
dry cracked silty lutite with minor amounts of coarse sand and pebbles (ice rafted?)
S void

154-180
VOID
end of core

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

Ship: Atlantis

Core No. 9 GC

Expedition 296

Station No. 9

Leg No. _____

Total Core Length 180 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	calc ooze	15	1		5	40	20	15			10	1	tr	tr
1	11 cm	unfoss clay/det	50	3		5	41	tr	tr			tr		tr	
10	50 cm	unfoss clay with det	25	1		5	54	tr	tr			tr			tr
3	150 cm	unfoss clay/det	35	3		5	54	tr	tr			tr			tr

********** STATION DATA RETRIEVAL ********** PAGE 1 OF 1
********** DATE: 17:43 JAN 19,'75 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO. GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	297	1	6369	0000	13	63 818	36.400N	70.110W	0	116.60	0001	4418.	111.	0000	2	3839	0	
ATL	297	1	6371	0000	13	63 818	37.100N	70.250W	0	116.70	0002	4261.	40.	0000	2	4459	0	
ATL	297	1	6372	0000	13	63 818	37.155N	70.070W	0	116.70	0003	4243.	21.	0000	2	3359	0	
ATL	297	1	6375	0000	13	63 819	36.505N	69.360W	0	115.69	0005	4396.	58.	0000	2	4459	0	
ATL	297	1	6377	0000	13	63 819	36.470N	69.530W	0	115.69	0006	4401.	60.	0000	2	4459	0	
ATL	297	1	6380	0000	13	63 823	37.250N	69.280W	0	115.79	0007	4270.	39.	0000	2	3359	0	
ATL	297	1	6381	0000	13	63 824	37.410N	69.335W	0	115.79	0008	4110.	117.	0000	2	3359	0	

THERE WERE 7 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

STOP THAT IS ALL FOR NOW

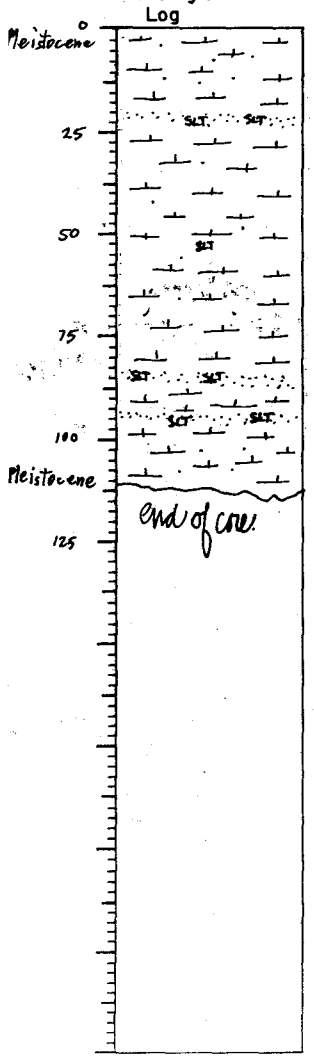
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 297 Leg 1 Sta. 6369 Core No. 1GC
Total Length 111 cm. Lat. 36° 40.0'N Long. 70°11.0'W Depth 4418 corr m.
Core condition POOR. CRACKED AND DRIED. Date Described 16 MAY 74 by J. BRODA.
Physiographic location NORTH AMERICAN BASIN OUT EAST OF HATTERAS.

Lithologic Log



Detailed Description

0-111
CALC OOZE/DET
10YR 6/2 lt olive gray
scattered forams in dry compact lutite
silty layers, 20-22 cm, 93-95 cm, 82-84 cm
end of core

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

Ship: Atlantis Core No. 1 GC
Expedition 297 Station No. 6369
Leg No. 1 Total Core Length 111 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		sand/silt Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze/det	15/5				30	3	45		tr	2			tr
95 cm	det	50/25		tr		15	2	5		tr	3			tr
111 cm	calc ooze with det.	15/5				40	2	35		tr	3			

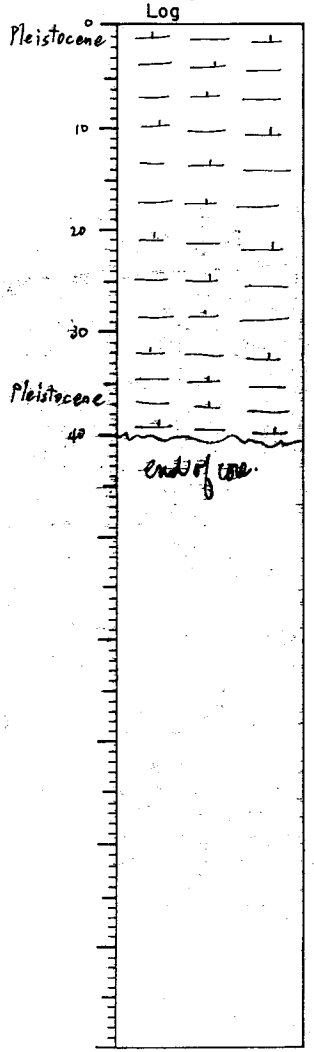
0267

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 297 Leg 1 Sta. 6371 Core No. 2GC
Total Length 40 cm. Lat. 37°10.0'N Long. 70°25.0'W Depth 4261 corr.
Core condition POOR... CRACKED DRIED Date Described 16 May 74 by J Broda
Physiographic location N. AMERICAN BASIN.

Lithologic Log



Detailed Description

0-40
HLY CALC CLAY
5Y 7/2 lt gray
abunt. forams, in dry compact lutite
end of core

0268

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

Ship: Atlantis Core No. 2 GC
Expedition 297 Station No. 6371
Leg No. 1 Total Core Length 40 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		sand/silt Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	hly calc clay	8/5	tr			55	6	20	tr		6			1
39 cm	hly calc clay	2				67	3	22			5			1

********** STATION DATA RETRIEVAL ********** PAGE 1 OF 1
********** DATE: 17:43 JAN 19,'75 ********** **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	PILOT LENGTH, DREDGE OR SAMPLE VOLUME	PHYSIO-GRAPHIC PROV.	ROCK OR SED. TYPE	VITA CODE	REMARKS
ATL	297	1	6369	0000	13	63 818	36•400N	70•110W	0	116•60	0001	4418•	111•	0000	2	3839	0	
ATL	297	1	6371	0000	13	63 818	37•100N	70•250W	0	116•70	0002	4261•	40•	0000	2	4459	0	
ATL	297	1	6372	0000	13	63 818	37•155N	70•070W	0	116•70	0003	4243•	21•	0000	2	3359	0	
ATL	297	1	6375	0000	13	63 819	36•505N	69•360W	0	115•69	0005	4396•	58•	0000	2	4459	0	
ATL	297	1	6377	0000	13	63 819	36•470N	69•530W	0	115•69	0006	4401•	60•	0000	2	4459	0	
ATL	297	1	6380	0000	13	63 823	37•250N	69•280W	0	115•79	0007	4270•	39•	0000	2	3359	0	
ATL	297	1	6381	0000	13	63 824	37•410N	69•335W	0	115•79	0008	4110•	117•	0000	2	3359	0	

THERE WERE 7 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

STOP THAT IS ALL FOR NOW

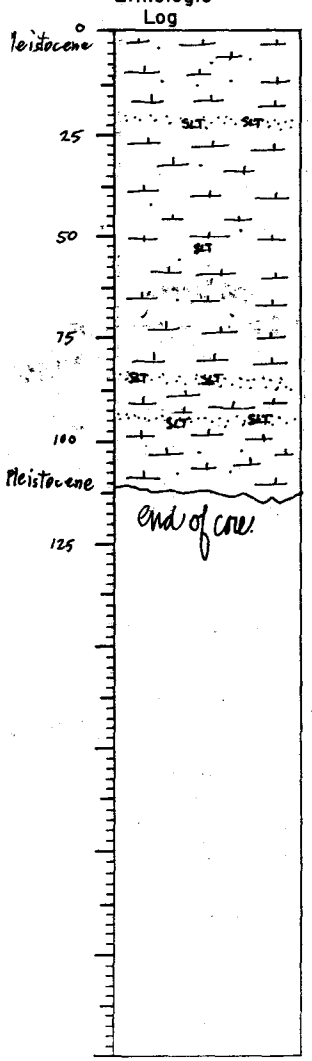
RUN

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 297 Leg 1 Sta. 6369 Core No. 1GC
Total Length 111 cm. Lat. 36° 40.0'N Long. 70°11.0'W Depth 4418 corr m.
Core condition POOR, CRACKED AND DRIED. Date Described 15 MAY 74 by J. BRODA.
Physiographic location NORTH AMERICAN BASIN ONE EAST OF HATTERAS.

Lithologic Log



Detailed Description

0-111
CALC OOZE/DET
10YR 6/2 lt olive gray
scattered forams in dry compact lutite
silty layers, 20-22 cm, 93-95 cm, 82-84 cm
end of core

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

Ship: Atlantis Core No. 1 GC
Expedition 297 Station No. 6369
Leg No. 1 Total Core Length 111 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		sand/silt Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	calc ooze/det	15/5				30	3	45		tr	2			tr
95 cm	det	50/25		tr		15	2	5		tr	3			tr
111 cm	calc ooze with det.	15/5				40	2	35		tr	3			

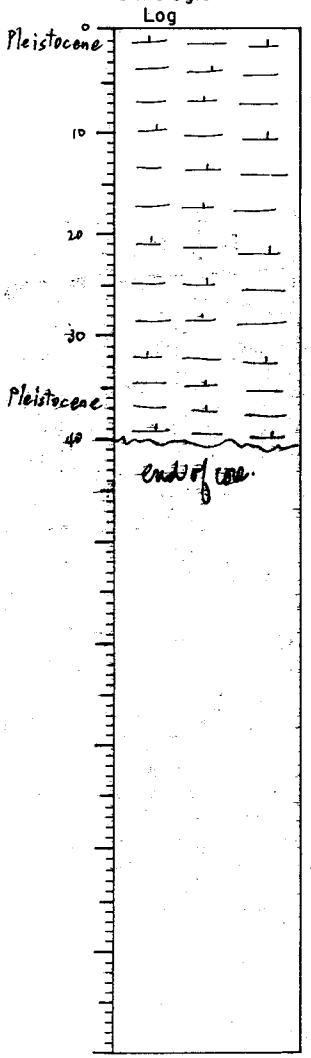
0267

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 297 Leg 1 Sta. 6371 Core No. 2GC
Total Length 40 cm. Lat. 37°10.0'N Long. 70°25.0'W Depth 4261 corr.
Core condition POOR... CRACKED. DRIED. Date Described 16 May 74 by J Broda
Physiographic location N. AMERICAN BASIN.

Lithologic Log



Detailed Description

0-40
HLY CALC CLAY
5Y 7/2 lt gray
abunt. forams, in dry compact lutite
end of core

0268

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

Ship: Atlantis Core No. 2 GC
Expedition 297 Station No. 6371
Leg No. 1 Total Core Length 40 cm

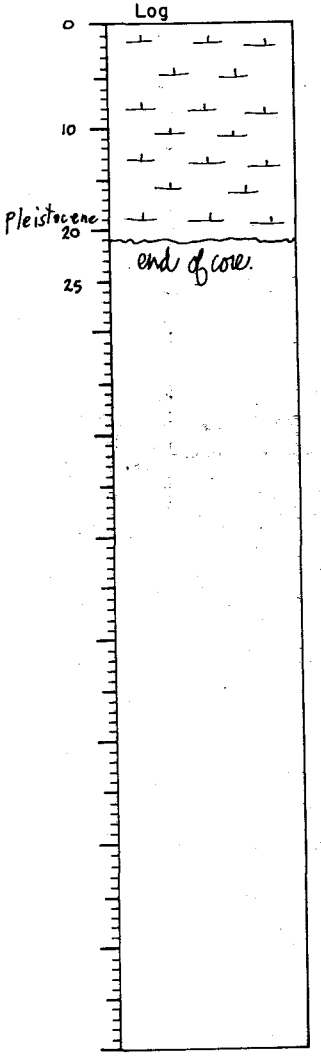
LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		sand/silt Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	hly calc clay	8/5	tr			55	6	20	tr		6			1
39 cm	hly calc clay	2				67	3	22			5			1

VISUAL CORE DESCRIPTION

Page 1 of 1

Ship A Cruise 297 Leg 1 Sta. 6372 Core No. 3GC
Total Length 21 cm. Lat. 37°15.5'N Long. 70°07.0'W Depth 4243 corr m.
Core condition POOR.. DRIED'n CRACKED Date Described 16 MAY 74 by J. BRODA.
Physiographic location N. AMERICAN BASIN .. OFF HATTERAS.

Lithologic Log



Detailed Description

0-21
CALC OOZE
10YR 7/1 lt gray
dry lutite, scattered forams
end of core

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

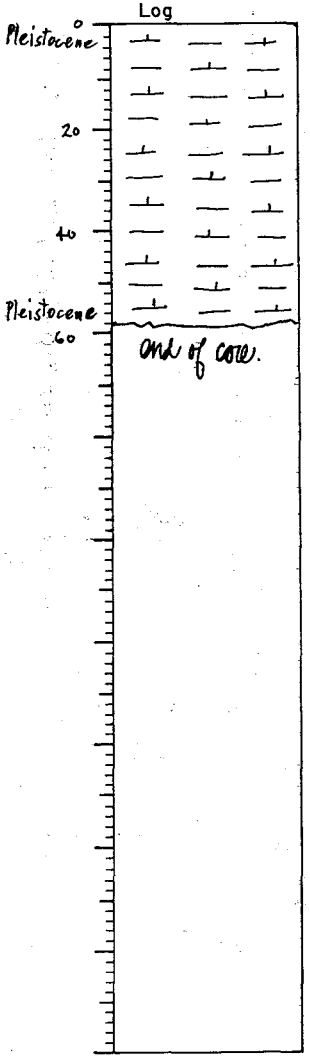
Ship: Atlantis Core No. 3 GC
Expedition 297 Station No. 6372
Leg No. 2 Total Core Length 21 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
20 cm	calc ooze	7				55	3	20		tr	15			tr

VISUAL CORE DESCRIPTION

Ship A Cruise 297 Leg 1 Sta. 6375 Core No. 5GC
Total Length 58 cm. Lat. 36° 50.5'N Long. 69°36.0'W Depth 4396 corrm.
Core condition POOR CRACKED, DRIED & SEPARATED Date Described 17 MAY 74 by J. BRODA.
Physiographic location North American Basin

Lithologic Log



Detailed Description

0-58
HLY CALC CLAY
2.5y 7/2 lt gray
dry cracked lutite, scattered forams
end of core

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

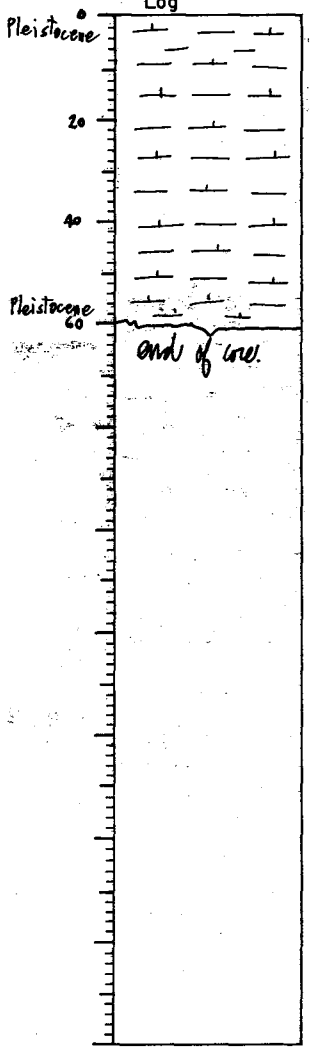
Ship: Atlantis Core No. 5 GC
Expedition 297 Station No. 6375
Leg No. 1 Total Core Length 58 cm

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
1 cm	hly calc clay	5				65	6	16			7			1
57 cm	hly calc clay	4	2			65	4	16			8			1

VISUAL CORE DESCRIPTION

Ship A Cruise 297 Leg 1 Sta. 6377 Core No. 6GC
Total Length 60 cm. Lat. 36°47.0'N Long. 69°53.0'W Depth 4401 CORR m
Core condition POOR - CRACKED, DRIED AND SEPARATED. Date Described 17 MAY 74 by J. BRODA.
Physiographic location NORTH AMERICAN BASIN. EAST OF HATTERAS.

Lithologic Log



Detailed Description

0-60
HLY CALC CLAY
2.5Y 6/2 lt brownish gray
dry lutite, with scattered forams
end of core

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

Ship: Atlantis Core No. 6 GC
Expedition 297 Station No. 6377
Leg No. 1 Total Core Length 60 cm

LEVEL	SEDIMENT TYPE	ESTIMATED ABUNDANCES (%)												
		Inorganic Material					Biogenous Material							
		Silt & Sand					Calcareous					Siliceous		
		Detrital grains	Micronodules	Zeolites	Volcanic shards	Clay	Forams	Nannofossils	Pteropods	Discoasters	Others	Diatoms	Radiolaria	Sponges
1 cm	hly calc clay	7				63	6	17			6	tr		1
59 cm	hly calc clay	5				62	6	18			5	2		1