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## Geotechnical evaluation of sand resources on the inner shelf of southern Virginia : final report to the city of Virginia Beach

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College of William and Mary  
School of Marine Science  
Virginia Institute of Marine Science

**Geotechnical Evaluation of Sand Resources  
on the Inner Shelf of Southern Virginia**

**Volume 1: Report and Appendices A-B**

Final Report  
to the

City of Virginia Beach, Virginia

Prepared by

Suzette M. Kimball  
James K. Dame

August 1989

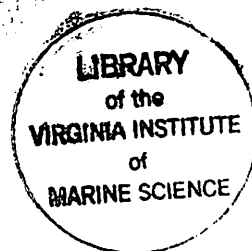


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## FORWARD

The Coastal Erosion Abatement Commission, in its report to the General Assembly (1979), recommended that "there is a need to locate sources of sand supplies for rebuilding public beaches." The Sand Resources Inventory, completed in 1982 by the College of William and Mary, Virginia Institute of Marine Science, was initiated in response to this directive. The Sand Resources Inventory, however, focused on the Chesapeake Bay. The City of Virginia Beach, facing a chronic need to renourish beaches facing the Atlantic Ocean, elected to develop an inventory of beach-quality sand reserves existing on the inner shelf of the Atlantic coast. This report details the results of the exploration program to delineate reserves containing sufficient quantities of sand suitable for emplacement on public recreational beaches in the City of Virginia Beach. Volume I contains the Summary Report and Appendices A and B, which depict interpretations of seismic data. Volume II contains Appendices C through E, which detail the sediment analyses.

This study was funded by the City of Virginia Beach, Virginia. Correlative sediment data were provided through the Study of Economic Heavy Minerals of the Virginia Inner Continental Shelf, funded in part by the Virginia Subaqueous Minerals and Materials Study Commission and, in part, by the Minerals Management Service, United States Department of the Interior, through a subagreement between the Texas Bureau of Economic Geology and the Virginia Division of Mineral Resources.

The work described herein could not have been accomplished without the dedication and expertise of the captain and crew of the R/V Bay Eagle, L. Durand Ward and Steven H. George. Robert A. Gammisch, M. Patricia Barthle, George R. Thomas, and Frank Farmer provided invaluable assistance in the field. Sediment analysis was completed by Cindy T. Fischler; assistance with the reduction of seismic data was provided by Angela Bryant. The authors thank each of these individuals for his/her dedicated efforts, without which this project could not have been completed. The authors especially thank C.H. Hobbs, III, for his hours of assistance with, and numerous discussions about, the interpretations of the seismic and sediment data.

The use of trade names within this document is for descriptive purposes only and does not imply endorsement of the products by the Commonwealth of Virginia or its agencies.

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GEOTECHNICAL EVALUATION OF SAND RESOURCES  
ON THE INNER SHELF OF SOUTHERN VIRGINIA

I. INTRODUCTION

Statement of the Problem.

The City of Virginia Beach, Virginia, is facing an increasing threat from erosion of its ocean-side beaches. It is becoming more difficult to locate sufficient material to restore beaches economically as upland sand pits are closed due to development. In order to provide a means to implement long-term beach development strategies and develop backup measures in the event of a catastrophic storm, it is necessary to pursue aggressively the location of alternate sources of beach quality material.

Shoreline erosion is a result of natural long-term processes, including (1) wave action and tidal flooding due to storms; (2) reduction in the amount of sand being supplied to the nearshore system by upland and/or updrift sources; and (3) elevation of relative sea level due to global warming and subsidence of coastal areas (Williams, 1987). Demographic shifts toward the coastline increase the hazard potential of the natural processes. Increased economic pressures require that the maintenance of beach width be a management priority in coastal communities. Resort areas use sand as fill material on their eroding beaches for both preventive and remedial purposes. Moreover, these localities can augment their appeal to tourists by maintaining a sizable beach.

Several engineering alternatives are available to mitigate the effects of shoreline recession. Beach renourishment is gaining attention because it is perceived to be less disruptive to the natural ecological system than are hard-structure alternatives. Williams (1986) reports that more than 40 beach restoration projects had been completed in the United States between 1950 and the publication date through joint funding among federal, state, and local governments. The federal projects alone used over 59 million cubic meters of sand for the initial work, and approximately half these projects have required additional, periodic maintenance (U.S. Army Corps of Engineers, 1984).

Recent activities by the City of Ocean City, Maryland, associated with the restoration of its resort beach, indicate that there is the potential to locate large volumes of beach quality sand stored in the linear shoal fields that dominate the seabed surface in the mid-Atlantic Bight. These shoals, many of them shoreface-connected, are located in 6.01 meters (20 feet) to 18.28 meters (60 feet) of water with local elevations of 3.05 meters (10 feet) to 9.14 meters (30 feet).

In the particular case of the Atlantic Coast of Virginia, linear shoals are shoreface-connected at False Cape and trend offshore to the northeast. In addition, there is a large shoal feature associated with the mouth of the Chesapeake Bay and located along the northern half of the Virginia Beach Atlantic Coast. Surface samples collected in these areas document widespread deposits of coarse sand, with median grain sizes as large or larger than the beach sand on Virginia Beach ( $>0.2$  mm). The vertical extent of these deposits has not been documented in

the literature and there is no detailed map of their distribution. However, the body of existing data suggests that sufficient sand of beach or near beach-quality is stored offshore of the Virginia Beach area at distances short enough to render sand mining for beach renourishment an economically viable alternative.

### Objectives.

The objectives of this study are to identify, locate and describe sources of beach quality material on the inner shelf that are within economical transport distances to the City of Virginia Beach. Specifically, the study includes (1) identification of potential offshore sources of beach quality sand; (2) mapping the aerial and vertical extent of suitable deposits; (3) determination of the characteristics of source and destination material.

## II. GEOLOGIC SETTING

### Limits of the Study Area.

The study area, shown in Figure 1, is a section of the inner shelf of Virginia generally bounded by Cape Henry to the north, the Virginia-North Carolina state line to the south, the ocean shoreline of the City of Virginia Beach on the west, and a line parallel to the shoreline and approximately three nautical miles offshore on the east.



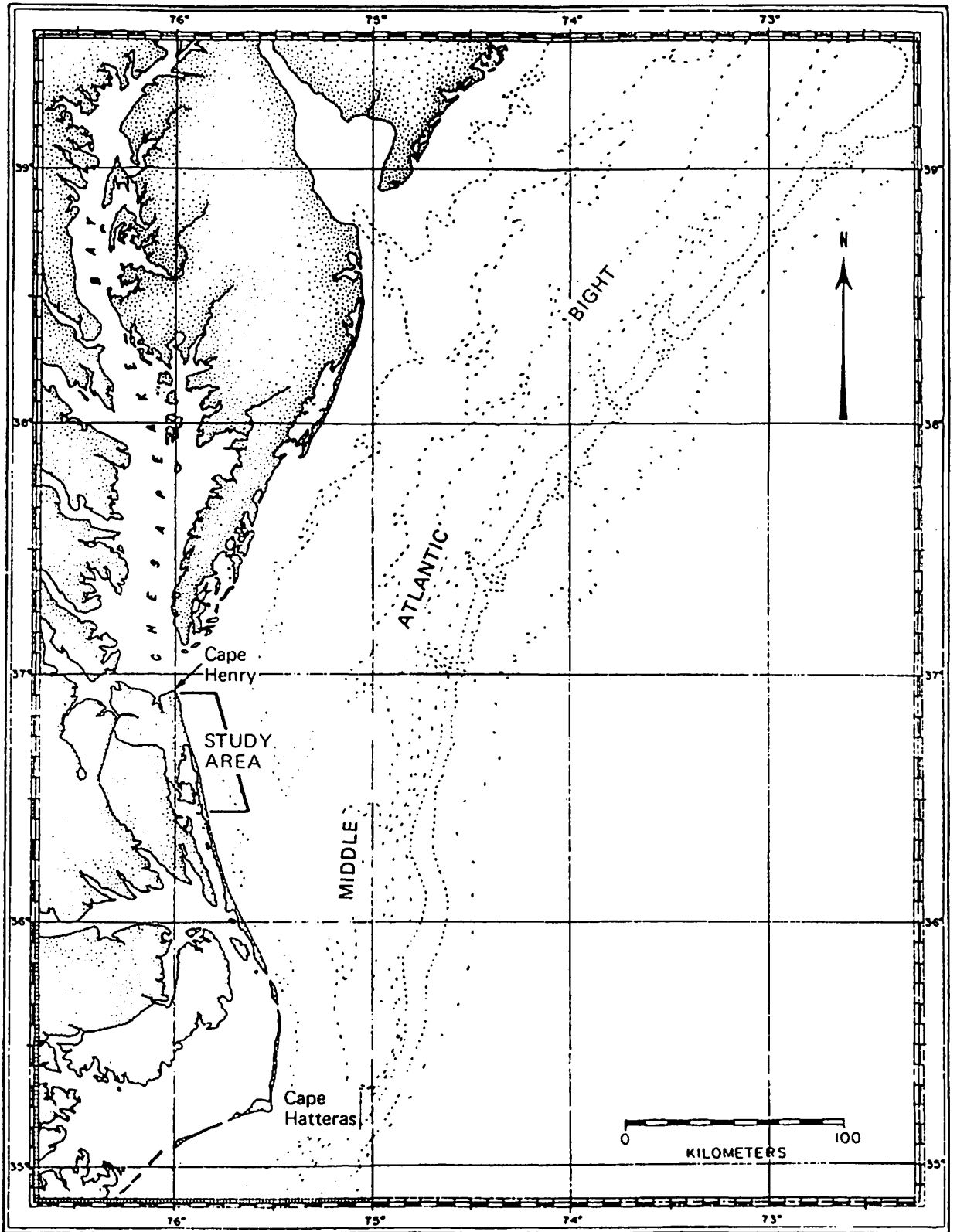


Figure 1. Site map showing location of the study area.

### Regional Stratigraphy.

The study area delineated in Figure 1 is part of the inner continental shelf which is a submerged extension of the Virginia Coastal Plain Province. No fewer than six stratigraphic units have been identified that form the substrate in this region (Williams, 1987). These units, ranging from late Miocene (11.2 - 5.3 million years before present (ybp)) to late Pleistocene (10,000 ybp) in age, are overlain by a veneer of modern Holocene sediments transported into the area from the Chesapeake Bay and from shoreface sources.

The continental shelf is believed to have experienced multiple episodes of marine transgression and regression driven by Pleistocene glacial and interglacial variability in global sea level (Shideler and Swift, 1972). The resulting shelf morphology is a complex palimpsest surface where features have been modified by subsequent shelf processes (Swift et al., 1972). In addition to morphologic features formed by long-term and large-scale processes, there exists a secondary set of features created by modern flow and transport regimes through and around the mouth of the Chesapeake Bay.

During the last major marine lowstand (>15,000 ybp), sea level was as much as 120 meters below the present level and the continental shelf was subaerially exposed with a shoreline near the modern slope break (Belknap and Kraft, 1977). Fluvial processes were the predominant factors in morphologic development. The ancestral Susquehanna River, located along the axis of the present-day Chesapeake Bay, and its tributaries, including the James River system, were responsible for creating channels and resultant sedimentary deposits many miles east of

the modern shoreline. These deposits reflect the upland areas that the rivers drained.

Between 15,000 ybp and 7,000 ybp, a period of intricate, short-term climatic fluctuations resulted in a rapid net rise in eustatic sea level (Curry, 1964). Finkelstein and Ferland (1987) demonstrated that rates of sea level rise in the mid-Atlantic Bight during that period were as much as six millimeters per year (mm/yr). Other research suggests that rates of as much as 10-12 mm/yr may have occurred (Nummedal, 1987). During the past 6,000 years the rate of global rise has slowed and is now estimated at 1.2 mm/yr, with local rates of relative rise estimated between 2.7 mm/yr and 4.4 mm/yr (Froome, 1980).

The rapid fluctuations of sea level are evident in the stratigraphy and subbottom structure of the inner shelf, which are as complex as the climatic history. Downcutting by ancestral fluvial systems during regressive periods resulted in widespread erosional surfaces and fluvial channel deposits (Shideler and Swift, 1972). During subsequent periods of rapid transgression, many of the subaerial topographic features were modified by marine processes, creating the present configuration of filled channels, shoals, remnant barriers and relict shorelines (Stubblefield and Duane, 1988).

The broad scale stratigraphy of the Virginia inner continental shelf has been well documented through the analysis of seismic records and sediment core logs (Shideler and Swift, 1972; Shideler et al., 1972; Meisburger, 1972; and Swift et al., 1977). These studies indicate four distinct sedimentary sequences that can be dated to the

late Pliocene (1.6 million ybp). The sequences are named Unit A (oldest) through Unit D (youngest), by convention (Shideler and Swift, 1972). The oldest, Unit A, correlates with the Yorktown Formation (Fm), a widespread shelly marine sequence whose erosional surface underlies much of the southeastern coastal plain in Virginia. The altered surface of the Yorktown Fm generally is seen as a clear reflector in seismic records. Williams (1987), however, was able to locate only a faint and discontinuous seismic trace that could be ascribed to the Yorktown Fm in the area between Cape Henry and Virginia Beach.

Radiocarbon dating and stratigraphic position are indicators that the next younger sequence, Unit B, represents a regressive assemblage formed during early Pleistocene low stands of sea level. It consists of fluvial and nearshore deposits characterized by lenticular to planar stratification within well-developed local channels that trend southeast and exhibit considerable local relief (Shideler and Swift, 1972). This unit is correlated with the Great Bridge Fm/Sandbridge Fm sequence of the adjacent coastal plain (Shideler et al., 1972).

Unit C, which overlies Unit B, is composed of homogeneous, horizontal layers of silt and clay that thicken slightly in an eastward direction. The deposit was formed in a low-energy environment, such as an estuary or back-barrier lagoon during a late Pleistocene highstand of sea level (Williams, 1987). No onshore correlative sequence has been identified.

The youngest and, hence, shallowest sequence, Unit D, composes the majority of modern surficial inner shelf deposits. This sequence

represents a discontinuous Holocene (recent to modern) transgressive sand sheet (Swift et al., 1977). It is composed of fine to medium sand or muddy sand with shell remains of modern fauna. Little internal stratification is visible (Williams, 1987). This deposit is forming as the result of rising sea level over an eroding shoreface, with substantial redistribution of material by shelf currents.

### Regional Bathymetry.

Figure 2 is a three-dimensional view of the bathymetry within the study area, from which several distinct morphological features can be described that are imposed on an otherwise gently seaward-dipping surface. A well-defined shelf valley extends southeastward from the mouth of the Chesapeake Bay. This valley is believed to be a modern topographic representation of a relict fluvial channel dating to the last major glacial advance (Meisburger, 1972). The Atlantic Ocean Navigation Channel, which is the major shipping approach to the Chesapeake Bay, lies within this topographic depression. To the west of the channel, extending landward to the shoreline, is the broad, shallow Cape Henry Shoal. This shoal is attached to the shoreface at the bay mouth and projects southward approximately 16 kilometers (10 miles), paralleling the present shoreline. Williams (1987) defines the Cape Henry Shoal as a modern depositional feature that is the product of ebb-tidal sedimentation processes occurring at the Chesapeake Bay Mouth.

Duane et al. (1972) defines shoal retreat "massifs" as large constructional sand features that are remnants of retreat paths of

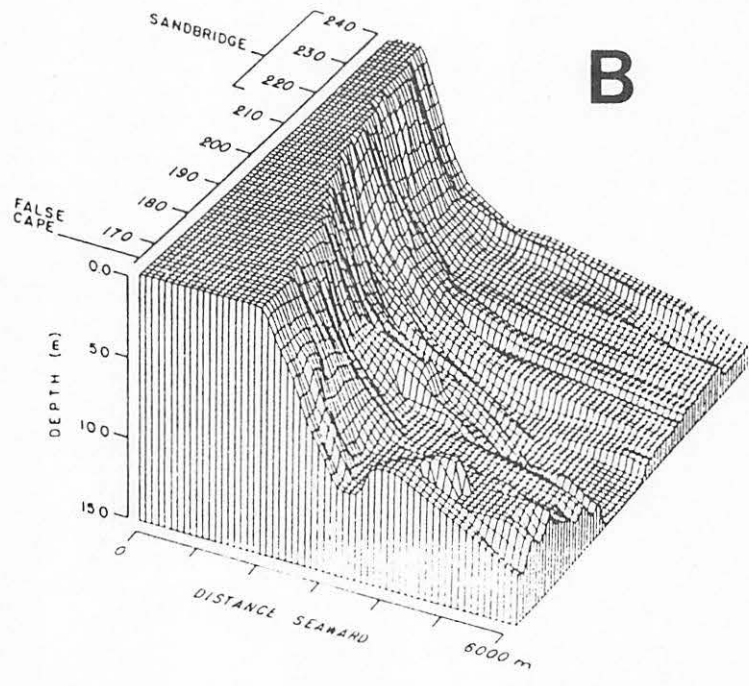
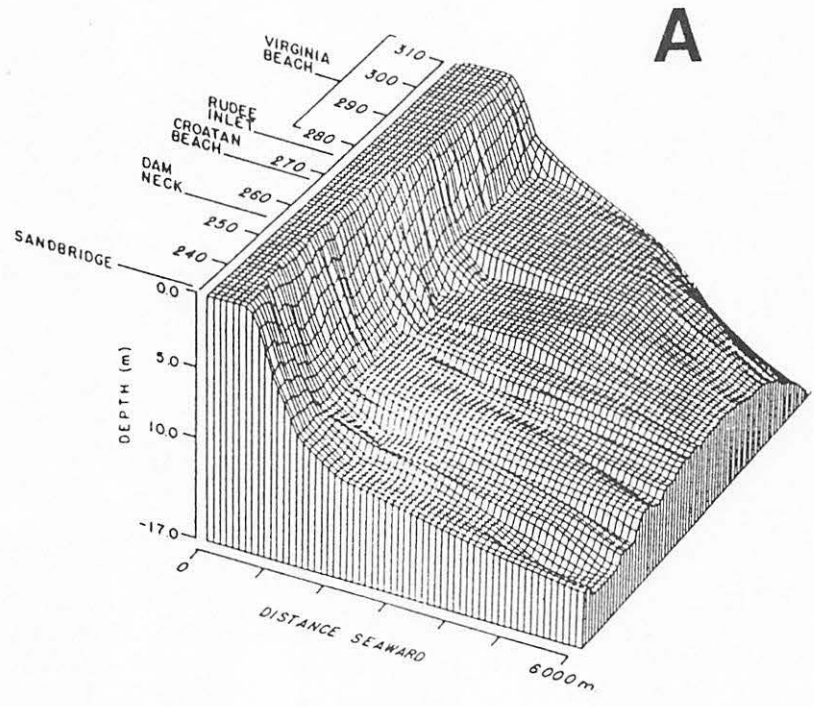


Figure 2. Bathymetry of the Virginia inner shelf between Cape Henry and North Carolina. The graphic representation uses a smoothed contour version of water depths digitized from recent navigation charts.

littoral drift convergences at estuary mouths or cusped forelands during transgressive periods. Williams (1987) describes the broad Virginia Beach platform at the northern boundary of the study area and east of the Atlantic Ocean Navigation Channel as a portion of the Virginia Beach Massif. The presence of the two broad shoals offshore the Virginia Beach resort area results in a broad dissipative platform that provides a wave-damping mechanism.

Field (1979) described a series of sub-parallel sand ridges in the mid-Atlantic Bight along the Virginia and Maryland coasts. The shoals vary in length from six kilometers to 60 kilometers, are spaced between one and six kilometers, and have amplitudes ranging as high as ten meters (Duane et al., 1972; Field, 1979). All sources note that the nearshore shoal fields are aligned on a northeast strike at a reasonably constant 20° to 30° from the present trend of the coastline. In some cases, the offshore shoal merges with the nearshore bar system and becomes shoreface connected. Such a case exists in the region offshore of False Cape, Virginia (see Figure 2), and accounts for the relatively wide shoreface platform in that area. The amplitudes of the ridges in the False Cape area exceed seven meters less than one kilometer from the shoreline; sidescan data across the ridge field show small amplitude sand waves indicating an active sediment transport regime (VIMS, unpublished data).

If one assumes that the linear shoal fields are the result of ridges associated with a previous retreating estuary system, one would expect to see cross-cutting sequences of fluvial systems in the intershoal areas. Payne (1970) discusses one such case, the Virginia

Beach Valley, which trends northwest between the False Cape ridge field and a linear shoal field located approximately eight kilometers to the northeast in 20 meters of water. Recent high-resolution seismic profile data substantiate the existence of this system. Channel depths in excess of 30 meters and widths of several kilometers have been mapped (VIMS, unpublished data). Several episodes of channel infilling can be documented, with evidence of differential compaction of the channel sediments.

Seaward of the reach between Dam Neck and False Cape, the shelf surface is a gently sloping plain, broken by a moderately-sized, non-linear shoal situated approximately 5 kilometers offshore of Sandbridge Beach (Figure 2).

### III. METHODS

#### Geophysical Methods.

Field data were acquired through three instrumentation systems: acoustic subbottom profiler; side-scan sonar; and a pneumatic coring rig. Seismic data were obtained using a Datasonics SBP-5000 subbottom profiler. This system consists of a two-channel, dual-frequency transceiver connected to a towfish carrying the transducers. The primary channel can operate at 3.5, 5.0, or 7.5 kilohertz (kHz). Most of the surveying in this area was conducted at 3.5 kHz; 5.0 kHz was used when greater depth of signal penetration was desired, or when a very strong surface reflector obscured deeper horizons. The second



channel operates at 200 kHz and was used to provide an accurate record of the bottom surface and water depth beneath the towfish.

Hard copies of the seismic data were recorded on electrostatic paper by both an EPC Model 3200 dual-channel graphics recorder and an EPC Model 4800 three-channel graphics recorder. The sweep rate of the recorders, which sets the scale of the hard copy, was set at 1/8 second and 1/16 second respectively. General interpretations of the data were made from the EPC 3200 hard copy, while the EPC 4800 record was used to resolve complicated records.

Side-scan sonar records were acquired with an EG&G Model 960 Seafloor Mapping System. A 105 kHz acoustic signal is transmitted in an arc variably set to scan a fixed distance on each side of the track line (100 meters, in this study). This system produces a planimetric image of the seafloor corrected with respect to the vessel speed. The intensity of the recorded signal is a representation of the character of the seafloor. Dark areas on the record are the result of hard bottoms, coarse material, or areas of relief that reflect most of the acoustic signal. Light areas indicate soft or fine-grained sediments, or shadow zones behind areas of positive relief and are the result of absorption of acoustic energy. Side-scan records of the study area show little surface variation and contribute little new information to the interpretation of the regional conditions. Thus, these records are not discussed in detail in this report. Hard copies of all geophysical data are archived at the College of William and Mary, Virginia Institute of Marine Science and can be retrieved for more detailed analysis.

The geophysical surveys were carried out aboard the Virginia Institute of Marine Science R/V Bay Eagle. Navigation was controlled by a shipboard microprocessor Loran-C system, augmented by a Del Norte positioning system for accurate location of track lines. The lines were laid out relative to the 27/41 Loran net and fix marks recorded every five minutes on long lines and two minutes on short lines. A total of 534 kilometers (332 miles) of track line were surveyed, as depicted on Figure 3.

#### Sediment Sample Collection.

Vibrocores were obtained during a correlative study that assessed economic heavy mineral distributions on the inner shelf (Berquist and Hobbs, 1988). Cores were retrieved by Alpine Ocean Seismic Survey Inc., using a pneumatic rig aboard the R/V Atlantic Twin. The inside diameter of the cores is a standard 8.9 centimeters (3.5 inches). Recoverable lengths reached a maximum of 6.1 meters (20 feet); however, jetting was required to reach this limit in coarse sand. Sample locations pertaining to this study are shown on Figure 4.

Cores were labeled, capped, sealed, and returned to the laboratory where they were split, described and logged. Channel samples were taken from each stratigraphic interval. Logs of each of the cores used in this study are included as Appendix C.

All samples were processed in the laboratory to remove and weigh the silt and clay fraction (<0.063 mm or >4.0 phi) and calculate the size distribution of the sand fraction (0.063 mm to 2.0 mm or between 4.0 and -1.0 phi). Samples that contained more than 25% silt and clay

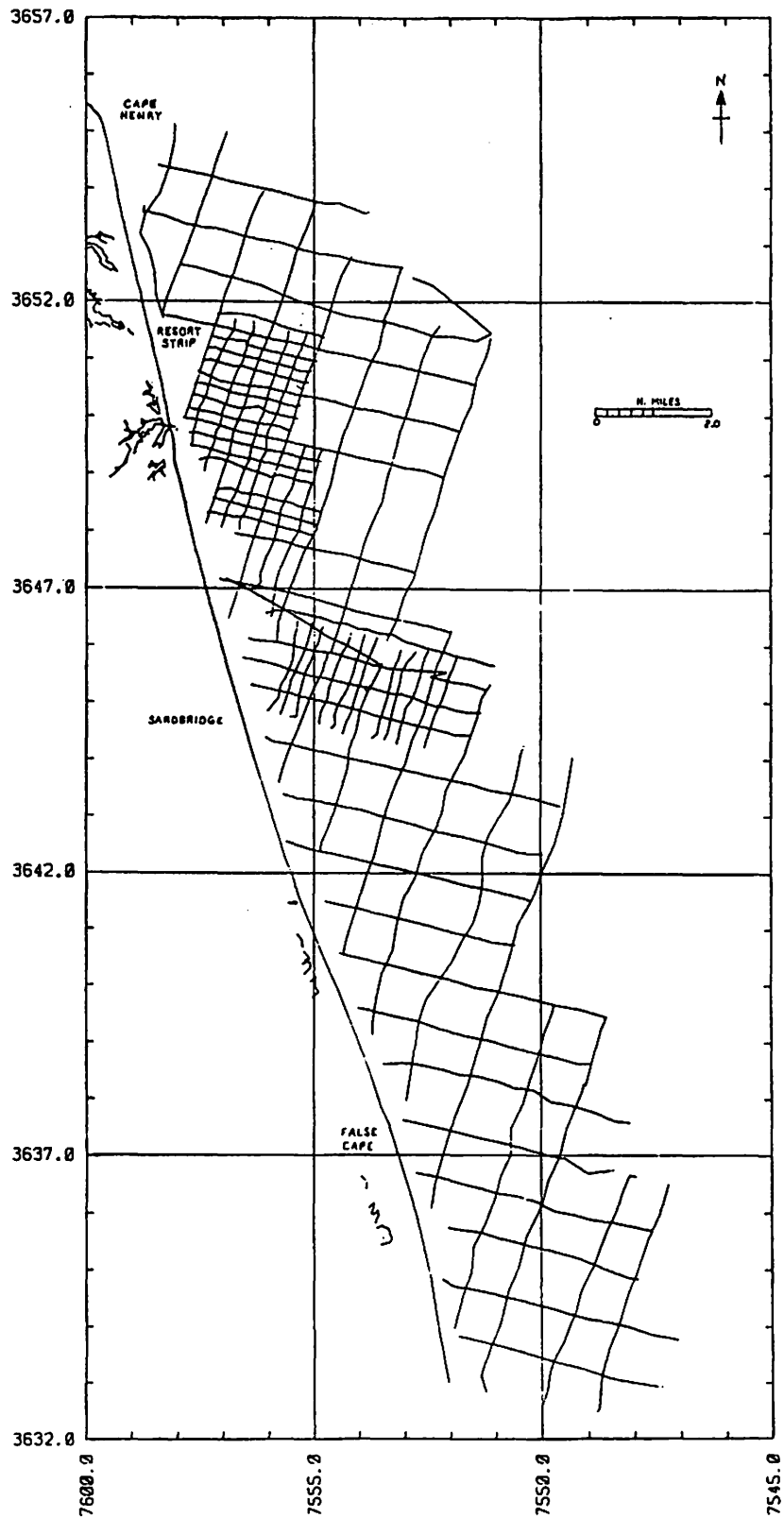


Figure 3. Locations of track lines along which geophysical data were collected.

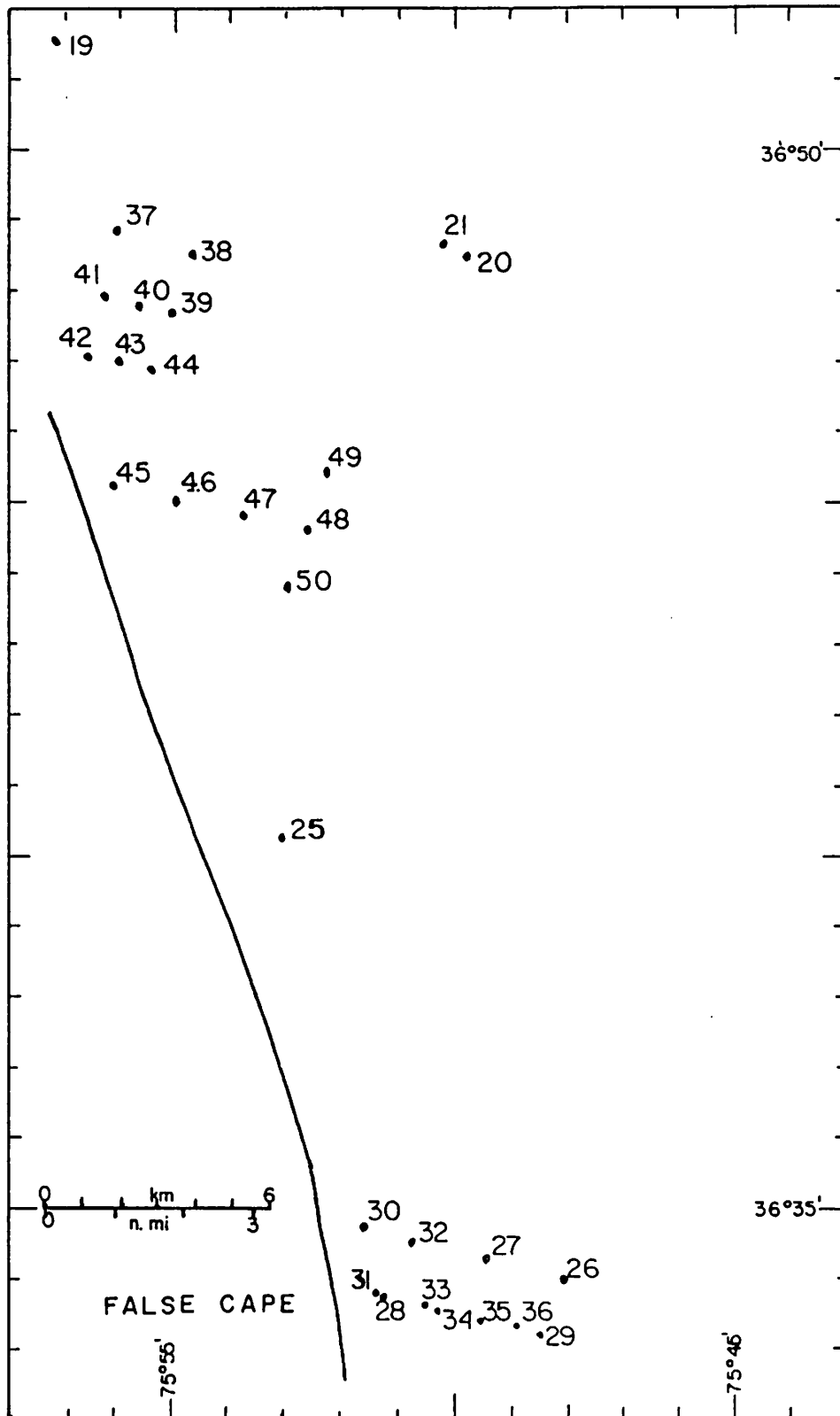


Figure 4. Location of vibracores taken within the study area (from Berquist and Hobbs, 1988).

were assumed to be unsuitable for beach nourishment and were not processed further. The sand fractions were processed using a Rapid Sediment Analyzer (RSA) which detects the sediment size distributions based on the hydraulic equivalent radius of the particles. The RSA is a computerized settling tube filled with de-ionized water and containing an electrobalance connected to a personal computer. This technique is preferable to mechanical sieving when the transport characteristics of a material are important, because grain shape and density are considered when particles are grouped in a size classification.

Appendix D contains graphic representations of grain size statistics for each sample used in this study, including tables of graphic (Folk) statistics, methods of moments statistics, cumulative frequency curves, and probability curves. Appendix E contains tables of RSA velocities and calculations for each sample. Detailed mineralogic analyses of the samples can be found in Berquist and Hobbs (1988). All samples are archived at the College of William and Mary, Virginia Institute of Marine Science.

#### IV. RESULTS

##### General Characteristics.

With the exception of several discrete isolated shoals, the inner shelf of Virginia is uniformly covered by a layer of fine to very fine, angular, gray micaceous sand typified by core sample #19. This layer varies from less than one meter to five meters thick throughout the

region. The thickest deposits are concentrated on the inner shelf north of Rudee Inlet and result from the Chesapeake Bay plume. Locally, patches of coarse shelly sand or mud may occur at the surface. Areas dominated by muds may carry a suspended load of flocculates ranging a few centimeters to approximately one meter above the seafloor. These areas are typical on the shoreface adjacent to Sandbridge Beach and Back Bay.

The fine sand cover carries a high percentage of silts and clays (hereafter termed "fines"), ranging from 16% to greater than 20%, a mean grain size of 0.125 mm (3.0 phi), and has an unaesthetic appearance in terms of color and a characteristic odor from organic components. Because these characteristics are less desirable for recreational beach nourishment projects, these areas are not discussed in further detail. Should protective beach strategies be considered, these data should be re-evaluated.

The region offshore of False Cape is dominated by a twin-ridge linear shoal complex. The sediments in this complex are represented by cores #26 through #36. There is a clear distinction between sediments contained in the shoals and the surrounding intershoal and swale areas. Within the swales, typified by core #33, a fine to silty fine sand overlies interbedded layers of clay, silty clay, and silty sand with lenses of coarse shell fragments and gravel. The shoals, represented by core #34, are medium to coarse sand with a mean grain size of 0.3 mm (1.75 phi) containing occasional laminae of silt, clay, and/or shell hash. The shoals contain large amounts of beach-quality sand. However, the distance between the source area and potential

destinations within the limits of the City of Virginia Beach are such that mining the area would not be economical except in response to a catastrophic event. Consequently, discussion is limited to those areas that are potential sites for long-term sand mining.

#### Rudee Inlet Deposits.

It has been suggested that a deep channel consisting of sand runs east-southeast from Rudee Inlet (Holton, 1987). A detailed geophysical sampling grid was developed to investigate the possibility of large sand reserves in the vicinity of the Resort Strip and Rudee Inlet (Figure 5). Reproductions of the original acoustic subbottom records and their detailed interpretations are contained in Appendix A.

The characteristics of the sediments are represented by cores #19, and #37-#42. Table 1 lists the salient characteristics of these sediments; detailed statistical analyses are contained in Volume II, Appendices C-E, and in Berquist and Hobbs (1988).

The surface sediments overlying this region are uniform gray to olive gray, fine to very fine sand with a consistent mean grain size of 0.125 mm (2.96-3.17 phi). The percentage of fines is high, reaching as much as 65% (core #42), but averaging 12% over the entire sand body. Three cores (#38, #41, and #42) show thin (0.1 meter; 0.3 feet) layers of quartz gravels and gravel-sized shell. Sand layers underlying the surface deposit have mean grain diameters between 0.25 mm (2.0 phi) and 0.125 mm (3.0 phi). Average grain size for the entire sand fraction underlying the very fine to fine sand at the surface is 0.2 mm (2.25 phi).

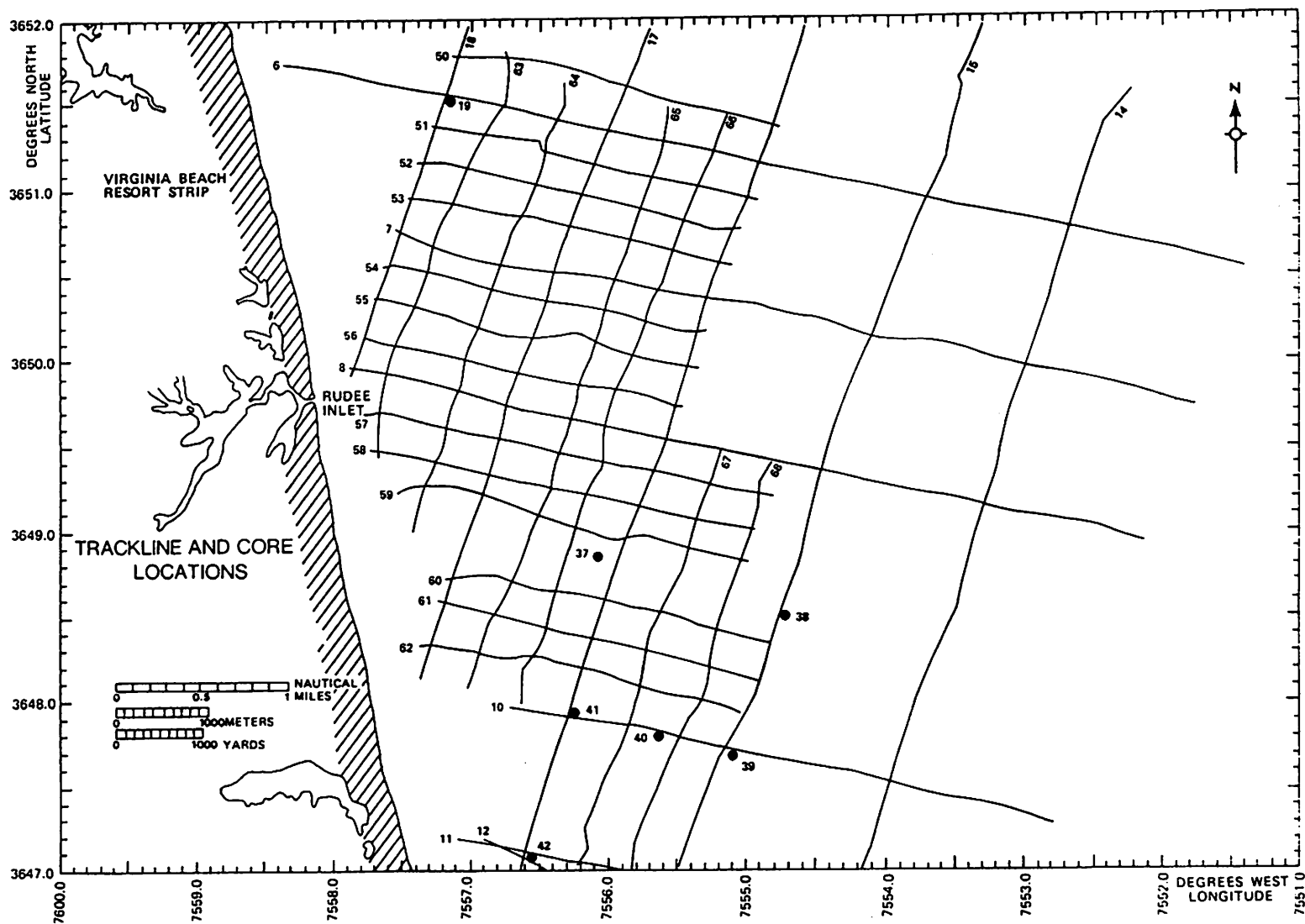


Figure 5. Locations of survey track lines and vibracores (solid circles) in the vicinity of Rudee Inlet. Track line and core numbers are referenced in the text. Transect B-B' corresponds to Track Line #10.



**TABLE 1**  
**Sediment Characteristics -- Rudee Inlet**

Sample Number	% Sand	% Gravel	% Fines	Sand Mean (phi)
19-1.1	91.5	0.0	8.5	3.02
19-1.2	72.3	8.6	19.1	2.66
19-1.3	59.1	35.3	5.6	0.73
19-2.1	90.4	0.1	9.5	3.05
19-2.2	94.9	0.3	4.8	1.81
19-3.1	95.8	0.5	3.7	1.89
19-3.2	92.2	0.1	7.7	2.41
37-1.1	88.6	0.4	11.0	3.05
37-1.2	91.4	0.2	8.4	2.55
37-1.3	88.3	0.6	11.1	1.90
37-1.4	82.8	0.1	17.1	2.29
37-1.5	84.6	0.1	15.3	2.42
38-1.1	86.1	0.0	13.9	3.17
38-1.2	71.6	24.8	3.6	0.72
38-1.3	80.3	0.6	19.1	1.74
38-1.4	90.4	1.0	8.6	1.14
38-1.5	88.8	0.3	10.9	2.12
38-1.6	73.3	1.0	25.7	2.68
38-1.8	57.2	26.8	16.0	0.99
39-1.1	91.7	0.1	8.2	3.09
39-1.2	92.6	4.1	3.3	1.63
39-1.3	88.6	2.0	9.4	2.58
39-1.4	88.3	1.9	9.8	2.51
40-1.1	91.5	0.1	8.4	3.14
40-1.2	84.0	0.8	15.2	2.82
40-1.3	89.0	0.1	10.9	2.67
41-1.1	90.9	0.6	8.5	3.07
41-1.2	80.7	1.6	17.7	2.94
41-1.3	70.7	27.2	2.1	0.61
41-1.4	96.6	0.0	3.4	2.07
42-1.1	88.2	1.8	10.0	2.96
42-1.2	64.0	26.9	9.1	0.96
42-1.3	87.7	3.7	8.6	2.22
42-1.4	34.7	0.3	65.0	2.56
42-1.5	63.8	22.3	13.9	1.81
42-1.6	90.0	0.0	10.0	2.33
42-1.7	92.1	0.1	7.8	2.08

Figure 6 shows the minimum thickness, based on recoverable core length and correlated to seismic data, of the surficial fine sands. Thickness varies from two meters to as much as six meters (maximum recoverable core length). Surface sediments become slightly more coarse in the southwest corner of the area. Figure 7 is a cross-section across Transect B-B'. Subbottom records indicate a strong reflector that probably represents a Pleistocene/Pliocene(?) erosional surface. Incised channels are evident on this surface. Above the contact are massive fine sands (Unit IV), representing recent deposition. Moving eastward, surficial sediments become finer, grading to a silty clay (Unit V) approximately five kilometers (three miles) offshore. Although there are lenses of gravel and coarse shell hash locally throughout the region, there is no indication of large-scale, sand-filled channel features.

#### Sandbridge Deposits.

Initial geophysical surveys showed the presence of a large, amorphous shoal located approximately five kilometers (three miles) offshore of Sandbridge Beach. Although a shoal feature does appear in this location on nautical charts, neither its extent nor its composition has been documented in the literature. Because of its topography as seen on the seismic records (see Appendix B), which resembled remnant beach ridge or barrier morphologies, it was anticipated that the shoal may be largely composed of shallow marine sands. A high-density geophysical sampling program was initiated (Figure 8). The sedimentary characteristics of the shoal are defined

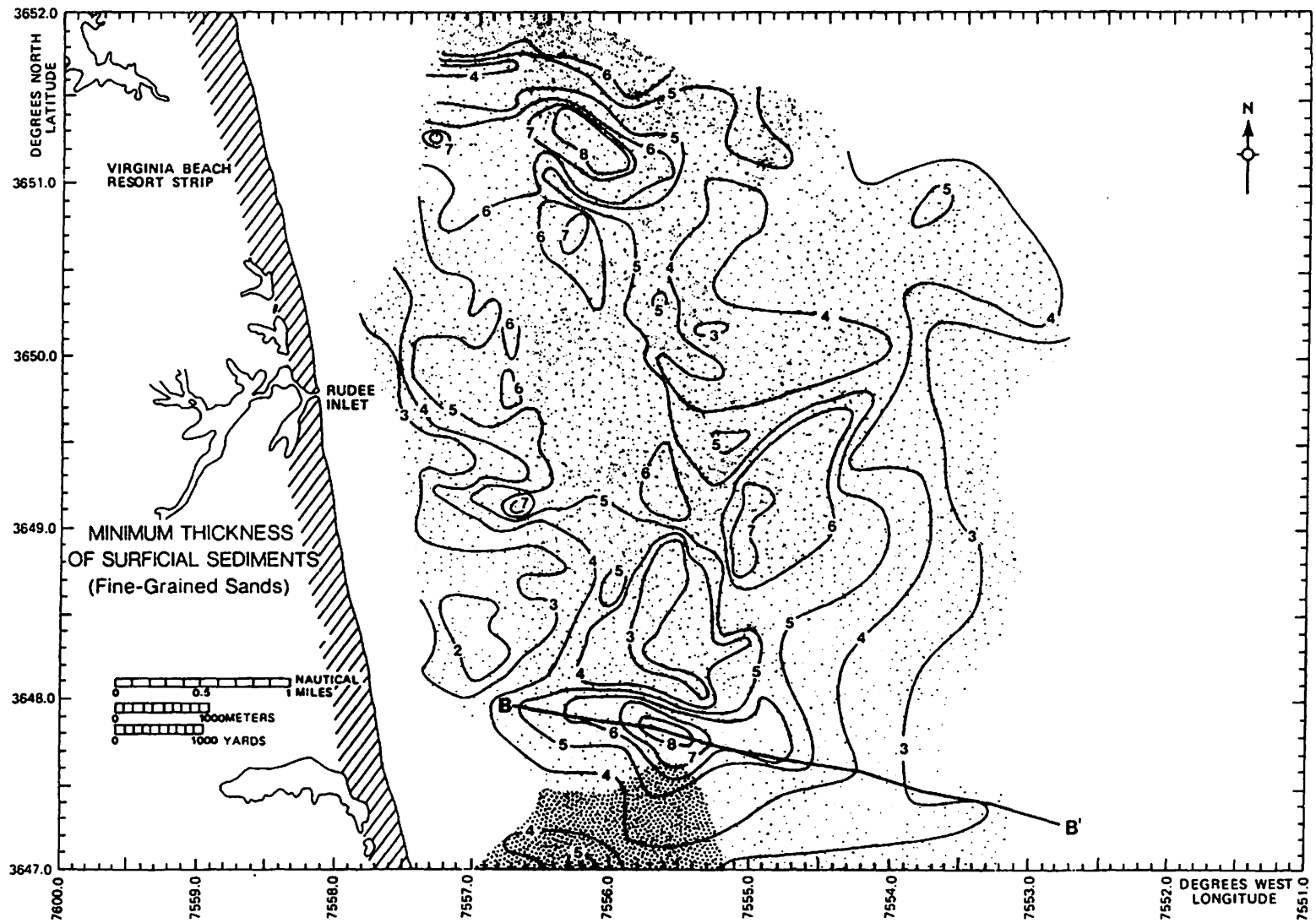


Figure 6. Isopach map showing the distribution and minimum thickness of the surface layer of very fine gray sand in the vicinity of Rudee Inlet. The contour interval is one meter.

CROSS SECTION ALONG TRANSECT B - B'  
(TRACKLINE NUMBER 10)

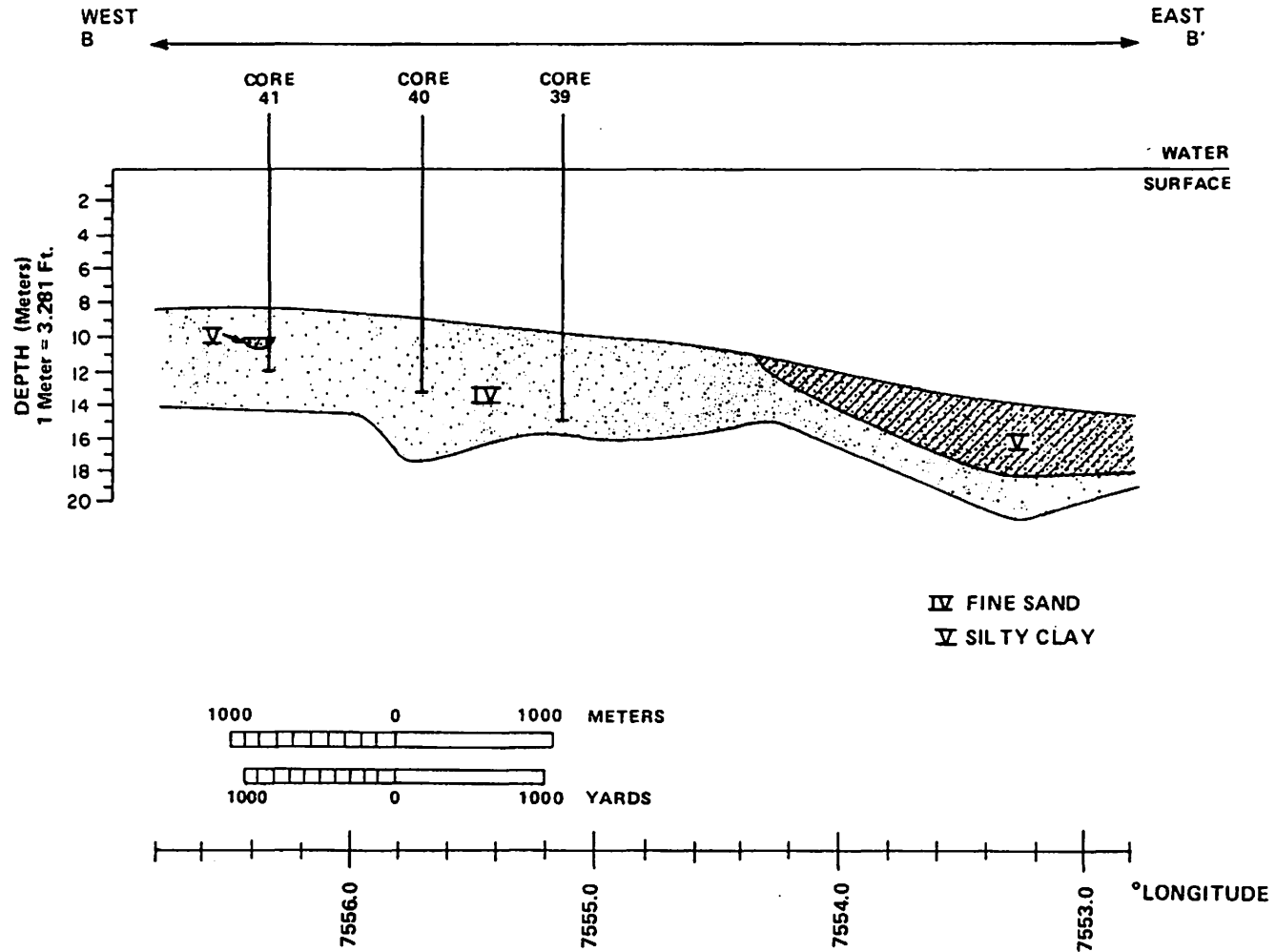


Figure 7. Cross-section along Transect B-B' (Track Line #10), showing the vertical and lateral distributions of very fine sand and sandy clay in the vicinity of Rudee Inlet.

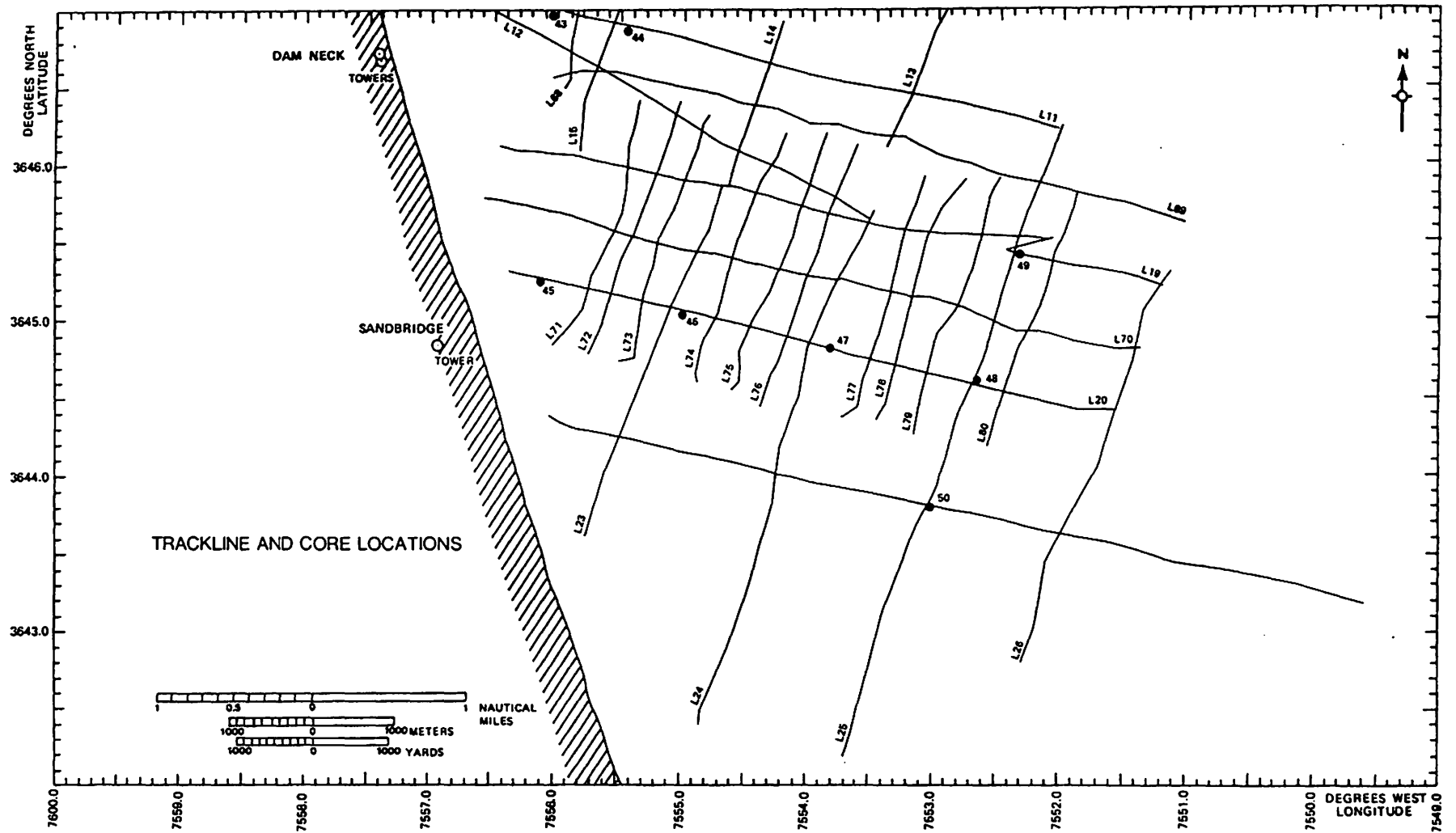


Figure 8. Locations of survey track lines and vibracores (solid circles) in the vicinity of Sandbridge. Track line and core numbers are referenced in the text. Transect A-A' corresponds to Track Line #20.

by cores #48 and #49. Cores #45, #46, and #47 show the presence of other discrete sand bodies at depth, whereas core #50 effectively limits the extent of sand reserves. Table 2 lists summary sediment characteristics for each of these cores. Detailed information is contained in Volume II, Appendices C-E, and in Berquist and Hobbs (1988).

Figure 9 shows a cross-section along Transect A-A', which corresponds to seismic track line 20 (Figure 8). Topographically, the shoal's western and southern flanks rise from a swale to a terrace located two to three meters (6.56-9.84 feet) above the surrounding shelf surface. Several terrace levels are evident on the southern perimeter (Lines 25 and 79, Appendix B), while the eastern and northern flanks slope gently offshore. The mid-section contains the highest relief (>3.0 meters; 9.84 feet), which is characterized by a series of ridges and troughs oriented N35°E. Planimetric dimensions of the shoal are approximately 2.75 kilometers by 4.5 kilometers (1.7 miles by 2.8 miles) within the study area (Figure 10). However, the shoal continues in a northeasterly direction for an unknown distance beyond the limits imposed for this study.

The shoal is composed of clean medium to coarse sand (0.3 mm; 1.5 phi mean grain size) separated from the underlying material by a pervasive, sharp horizontal reflector. Analyses of cores #48 and #49 (Table 2; Appendices D and E) show an overall coarsening upwards trend. Stratification within the shoal generally follows the surficial topography, becoming more horizontal towards the basal reflector.

TABLE 2

## Sediment Characteristics -- Sandbridge

Sample Number	% Sand	% Gravel	% Fines	Sand Mean (phi)
45-1.1	85.3	1.4	13.3	2.31
45-1.4	84.7	7.4	7.9	2.00
45-1.5	76.1	17.8	6.1	1.11
45-1.6	97.1	0.0	2.9	2.44
45-1.7	94.1	0.6	5.3	2.48
45-1.8	68.1	26.1	5.8	0.99
45-1.9	94.5	0.0	5.5	2.05
46-1.1	80.7	1.5	17.8	3.02
46-1.2	73.1	6.3	20.6	1.93
46-1.4	80.2	0.4	19.4	1.85
46-1.5	76.6	2.1	21.3	1.87
46-1.7	47.1	0.4	52.5	2.01
46-1.9	84.2	0.2	15.6	2.11
46-1.10	78.7	1.3	20.0	1.36
46-1.11	95.6	0.1	4.3	2.18
47-1.1	85.2	1.0	13.8	3.16
47-1.4	59.7	14.9	25.4	0.72
47-1.5	96.6	1.5	1.9	1.36
48-1.1	97.4	1.3	1.3	1.48
48-1.2	97.4	0.4	2.2	1.59
48-2.1	97.8	0.3	1.9	1.64
48-2.2	96.1	1.4	2.5	1.48
48-3.1	95.3	2.5	2.2	1.71
48-3.2	95.7	1.0	3.3	2.13
49-1.1	98.8	0.0	1.2	1.46
49-1.2	92.3	3.2	4.5	1.57
49-1.3	95.1	0.2	4.7	1.94
49-1.6	87.3	0.1	12.6	2.72

CROSS SECTION ALONG TRANSECT A - A'  
(TRACKLINE NUMBER 20)

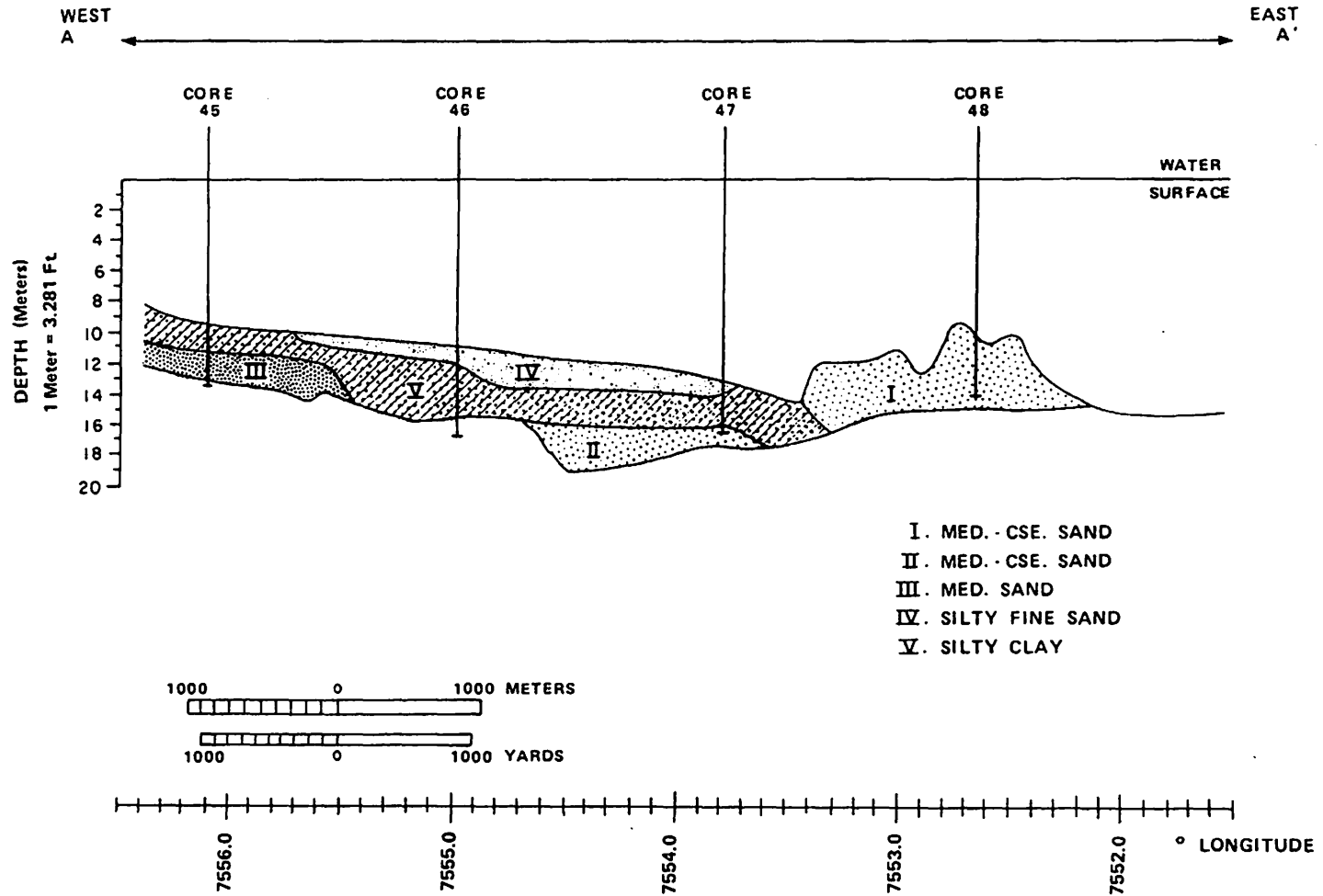


Figure 9. Cross-section along Transect A-A' (Track Line #20), showing the vertical and lateral distributions of an isolated shoal and attendant sand bodies in the vicinity of Sandbridge.



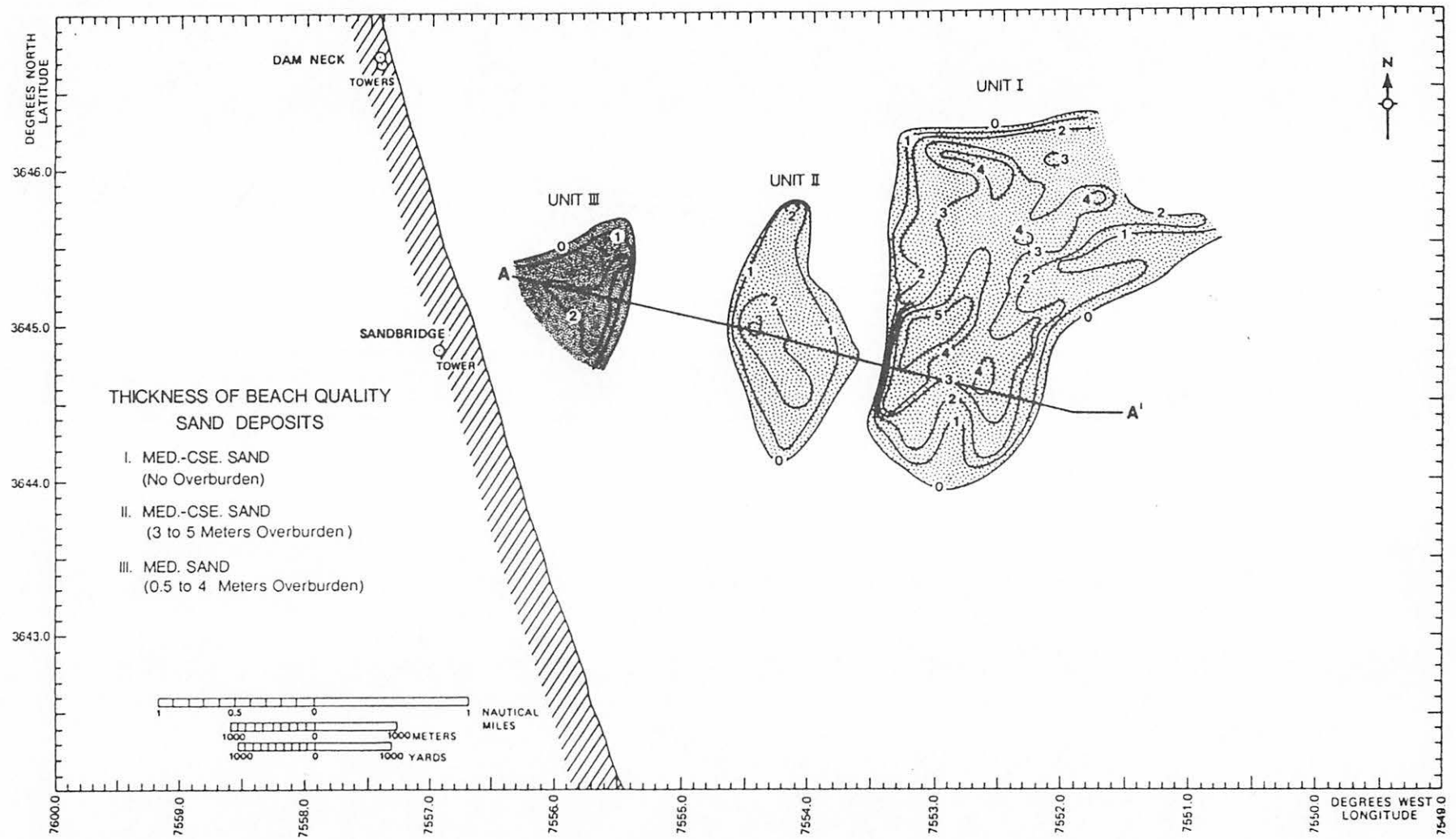


Figure 10. Isopach map showing the distribution and inferred thickness of medium to coarse sand deposits in the vicinity of Sandbridge. The contour interval is one meter.

With the exception of the extreme northeast section, the underlying material is silty to sandy clay. The silty clay found in cores #49 and #50 is correlative to the sandy clay found in cores #45, #46, and #47. The clay horizon also outcrops and borders the western and southern margins of the shoal. The extent of the underlying clay beds (defined as Unit V) and their relationship to the sand shoal (Unit I) is depicted in Figure 9, which shows a very sharp contact zone between the two deposits. Figure 11 illustrates the thickness and areal distribution of the clay. Where the clay outcrops at the surface, a heavy layer of suspended flocculates extends approximately one meter (3.28 feet) above the sea floor. In the northeast, the presence of steeply dipping beds beneath the shoal prevent a clear definition of the underlying material (Line 25; Appendix B).

West of the shoal and covered by approximately three to five meters (9.84-16.4 feet) of overburden is a layer of medium to coarse sand (Unit II, Figure 9; Figure 10). The overburden is composed of fine sand with similar characteristics to the Rudee Inlet deposits discussed above, overlying silty clay (Unit V, above). Total thickness and distribution of the overburden is depicted in Figure 12. Unit II has sedimentary characteristics, including composition and grain size distribution, similar to Unit I. Thickness varies between 1.5 meters (4.9 feet) and 3.5 meters (11.5 feet). The similarity between Units I and II strongly suggests a single feature that has been subsequently bisected.

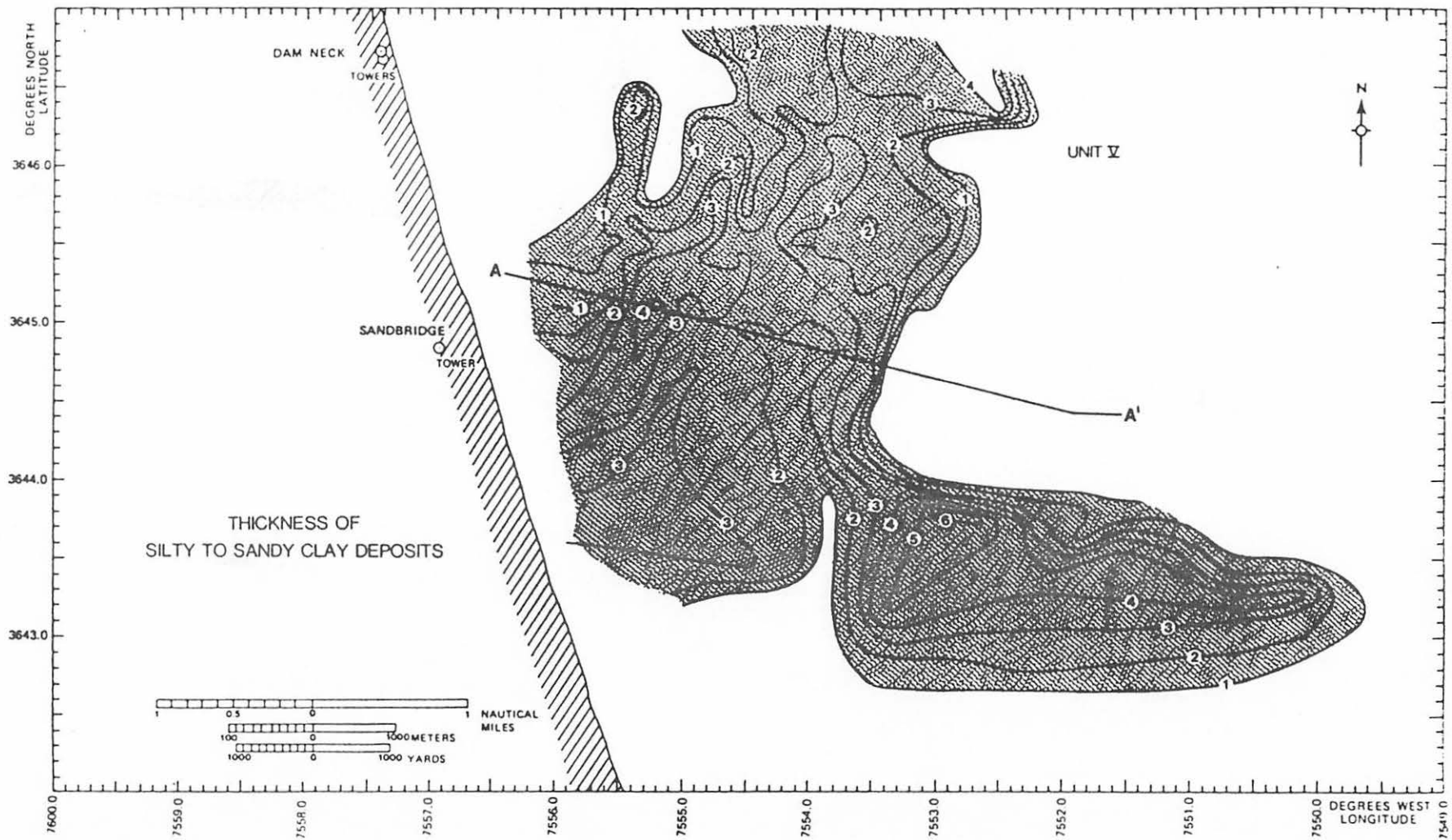


Figure 11. Isopach map showing the distribution and inferred thickness of clay units in the vicinity of Sandbridge. The contour interval is one meter.

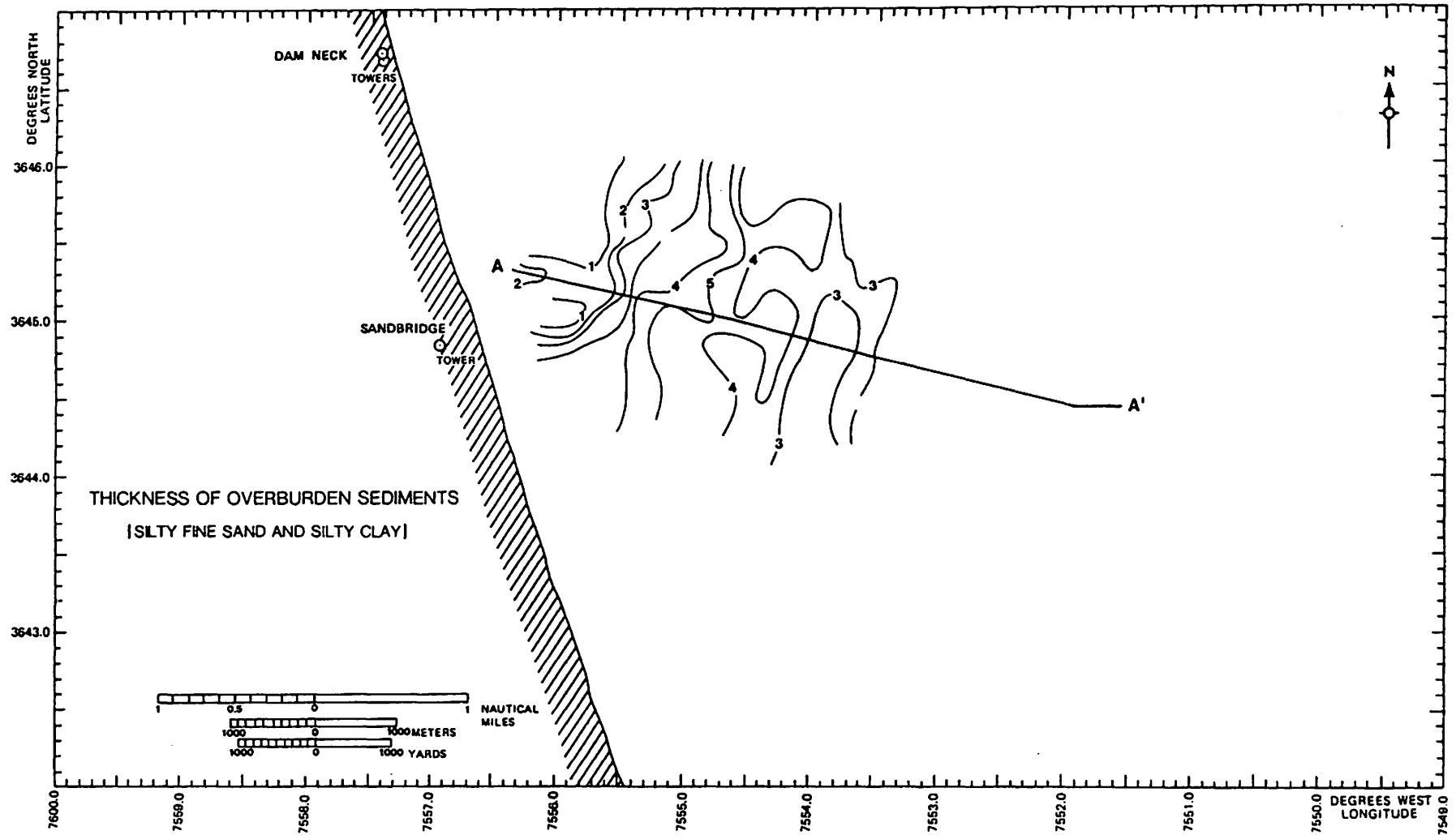


Figure 12. Isopach map showing the distribution and thickness of the overburden associated with beach quality sand deposits in the vicinity of Sandbridge. Total overburden includes both clay and very fine sand beds. The contour interval is one meter.

A third sand body, Unit III (Figures 9, 10), lies on the Sandbridge shoreface under two meters (6.56 feet) of silty clay (Unit V). This unit is composed of medium sand with a mean grain size of 0.19 mm (2.4 phi).

## V. DISCUSSION

In response to increasing pressures from economic development in the coastal zone, it has become incumbent upon local governments to provide maintenance and development of public recreational facilities, including beaches. The same development pressures affect the availability of upland sources of suitable beach nourishment materials, forcing localities to look for alternate sand reserves.

An intensive geophysical exploration program was instituted to determine if mineable reserves of beach-quality sand existed on the inner continental shelf adjacent to the Virginia Beach shoreline. Data collection included the acquisition of high resolution acoustic subbottom records, corroborated by a series of sediment cores.

The inner shelf and shoreface within five kilometers of the shoreline is covered by a veneer of fine to very fine gray micaceous sand with minor amounts of organic material. Typical concentrations of silts and clays exceed 20% by weight. This material lacks the texture and aesthetic values that are identified as important for nourishment of recreational beaches. However, the mean grain size, 0.125 mm (3.0 phi) is consistent with surface sediments in depths of water exceeding three meters (9.8 feet). Although the material is inconsistent with

recreational beach use, its characteristics are similar to seafloor sedimentology in the nearshore zone. Consequently, these materials could be used to develop dissipative configurations on eroding shorefaces.

Three areas were identified with potential for providing beach-quality sands. The first, in the vicinity of False Cape, consists of a series of sub-parallel linear shoals trending northeast and connected to the shoreface through the nearshore bar system. The shoals extend as much as 2.5 km (1.6 miles) with a surface relief exceeding three meters (9.8 feet). The shoals contain medium to coarse sand with a mean grain size of 0.3 mm (1.75 phi). A conservative estimate of the volume of sand in the shoals is  $2.5 \times 10^6 \text{ m}^3$  ( $3.1 \times 10^6 \text{ yd}^3$ ). The False Cape linear shoal field represents a significant reserve of beach quality sand. However, its distance from developed areas in Virginia Beach reduces its economic value to the City. This material should be considered as a possible emergency reserve in the event of a catastrophic storm.

The area east of the Rudee Inlet/Croatan shoreface appears to be undesirable in terms of reserves of beach quality sand. Surface sediments, to depths exceeding one meter (3.28 feet), are very fine sands and silts as described above. Although these deposits initially appear to be massive, homogeneous beds to depths exceeding maximum core retrieval, detailed sedimentary analysis reveals that a series of slightly coarser fine sand stratigraphic units exists with depth. These sands vary in texture between 0.25 mm (2.0 phi) and 0.125 mm (3.0 phi), with a regional average of 0.2 mm (2.25 phi) and an average of

10% fines by weight. The quality of these materials approximates that of sediment in the Cape Henry Navigation Channel which was placed on the Virginia Beach Resort Strip as part of the navigation channel enhancement project in 1989. Although these sediments are not optimal recreational beach quality, they can provide short-term relief to an eroding beach.

The third, and most promising, site is a large sand shoal located five kilometers (three miles) east of Sandbridge Beach in 12 meters (40 feet) of water. The shoal, as mapped, has an areal extent of 12.38 km<sup>2</sup> (4.76 mi<sup>2</sup>). The northeastern limits of the shoal were not mapped as part of this project and remain undefined. The shoal is composed of clean, medium to coarse sand (0.3 mm; 1.5 phi) that tends to coarsen upwards in the section. Thickness of the shoal varies from one meter (3.28 feet) to five meters (16.4 feet). Using an average thickness of 2.5 meters (8.2 feet), a conservative estimate of the volume of beach-quality sand contained within the study area exceeds 17 million m<sup>3</sup> (39.8 million yd<sup>3</sup>). Total reserves could double that amount.

#### Beach Sediments and Overfill Ratios.

Goldsmith et al. (1977) describes the importance of cyclic glacial activity and concomitant variability in sea level in creating the character of sediment sources in the area. The Traverse Group, Inc. (1980) attribute the textural variation of beach materials in the Virginia Beach area to inherited traits from heterogeneous Pleistocene sediments in the substrate. In addition, modern sediments distributed

by tidal flow in and around the Chesapeake Bay entrance contribute an important component to the northern Virginia Beach sedimentology.

Beach sediment data from various sources have been collated and summarized in Wright et al. (1987). Although there is considerable variation in mean grain size both along the coast and across the profile, the following regional averages apply:

Resort Strip

Foreshore mean -- 2.0 phi  
Foreshore standard deviation -- 0.8 phi

Sandbridge

Foreshore mean -- 1.75 phi  
Foreshore standard deviation -- 0.4 phi

Similar average values can be calculated for each of the potential sand reserve sites:

Rudee Inlet

Surface mean -- 3.05 phi  
Surface standard deviation -- 0.5 phi  
Subsurface mean -- 2.25 phi  
Subsurface standard deviation -- 0.6 phi

Sandbridge Site

Mean -- 1.48 phi  
Standard deviation -- 0.5 phi

One measure of the suitability of a given borrow material for a beach nourishment project is the Overfill Factor ( $R_A$ ). This measure was developed by James (1975) and is used widely by the U.S. Army Corps of Engineers. The assumption behind the overfill factor is that the distribution of grain sizes on a stable beach is representative of a dynamic equilibrium between the supply of material to the beach and the rate of transport that removes it (U.S. Army Corps of Engineers, 1984).



The most suitable renourishment sediments would have a grain size distribution similar to the native material. In areas that are receding, it is necessary to compensate for differences in the size distributions of native and borrow sediments by putting an initial amount of material on the beach that exceeds the desired design. This allows for readjustment of the sediment following placement.

$R_A$  is calculated by comparing the phi-scale mean grain size of the borrow material with that of the native sand, and plotting those values against the ratio of the standard deviations of the borrow and native material. These values are plotted on a nomograph provided by the U.S. Army Corps of Engineers Shore Protection Manual (1984), from which  $R_A$  is read.

The Periodic Renourishment Factor ( $R_J$ ) is a similar calculation that compares the rate at which the borrow material will erode with the rate at which the native material erodes. The phi mean difference and sorting ratios are calculated in the same manner as for  $R_A$ , and the resultant  $R_J$  factor read from a nomograph (U.S. Army Corps of Engineers, 1984).

$R_A$  and  $R_J$  were calculated for each of the Resort Strip and Sandbridge beaches relative to potential sand reserves offshore of Rudee Inlet and Sandbridge.  $R_A$  for the Resort Strip, relative to the fine surface sand in the Rudee Inlet area is  $>10.0$ , which is in the unstable quadrant. It would not be advisable to use this material for renourishment of the Resort Strip.  $R_J$  is calculated at 6.0, indicating a potential for greater erosion rates than the native sediments. Relative to the subsurface sands offshore of Rudee Inlet,  $R_A$  for the

Resort Strip is 3.0, and  $R_J$  is 1.75. This material is comparable to the material dredged during the 1989 deepening of the Cape Henry Navigation Channel.

The Sandbridge beach sediments, relative to the offshore sand shoal, have an  $R_A$  of <1.02, which is stable; and a  $R_J$  of 0.14. These values indicate that the material in the sand shoal offshore Sandbridge is an excellent source of sand for renourishment of the Ocean-side beaches in Virginia Beach.

## VI. SUMMARY

An geophysical exploration program was undertaken designed to identify reserves of beach quality sand on the inner shelf. Several areas containing potential reserves were identified, including the False Cape reach and the region in the vicinity of Rudee Inlet. The False Cape reserves are of good quality, but the distance separating the reserve from potential destinations lessens the economic viability of the deposit. The sand deposits on the inner shelf fronting Rudee Inlet are desirable in terms of location, but are less than optimal in terms of recreational beach material. Recent work by Berquist and Hobbs (1988) identify each of these areas as having high concentrations of economic heavy minerals, particularly the titanium suite. The possibility of dual commodity mining associated with the heavy mineral deposits may provide a favorable economic climate for extraction.

The most promising reserve is a moderately-sized sand shoal situated approximately five kilometers (three miles) east of Sandbridge

Beach. More than 17 million m<sup>3</sup> (39.8 million yd<sup>3</sup>) of clean medium to coarse sand (0.3 mm; 1.5 phi) is concentrated in a discrete shoal feature with no overburden. No economic concentrations of heavy minerals have been identified in samples from this shoal (Berquist and Hobbs, 1988). However, overfill and renourishment factors relative to Sandbridge are <1.02 and <0.14, respectively, which indicates stability relative to the native sediments.

This shoal represents a very valuable sand reserve within economical transport distance for mining. Benthic resource evaluations have not been completed for this site. However, the proximity to the Dam Neck Disposal Site which has been studied extensively will allow preliminary evaluations of certain resources, including migratory species. Because of the thickness and areal extent of the shoal, mining activities should not extract the total volume of available sand. Sedimentary homogeneity within the shoal ensures that the nature of the substrate will not change appreciably as a result of sand extraction.

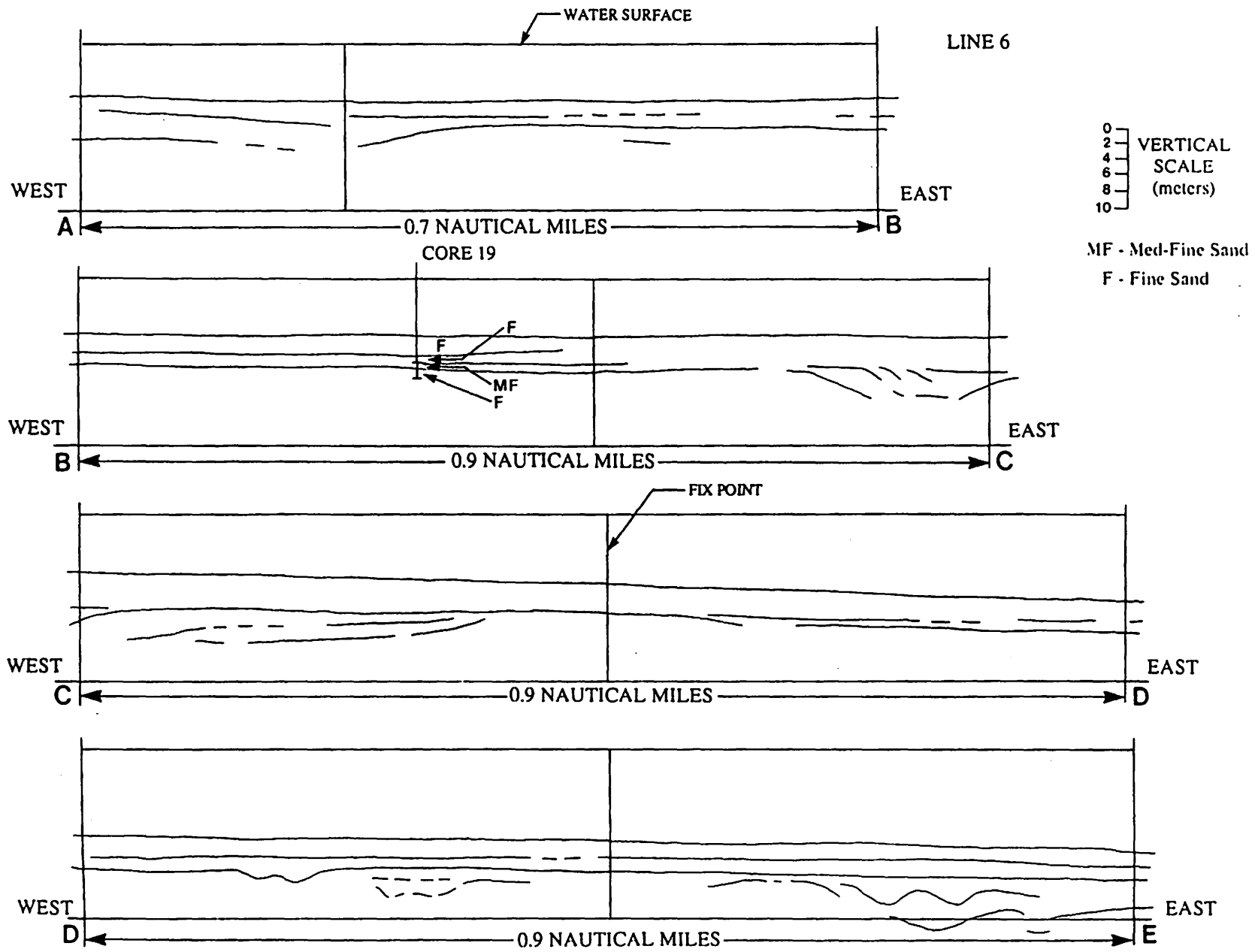
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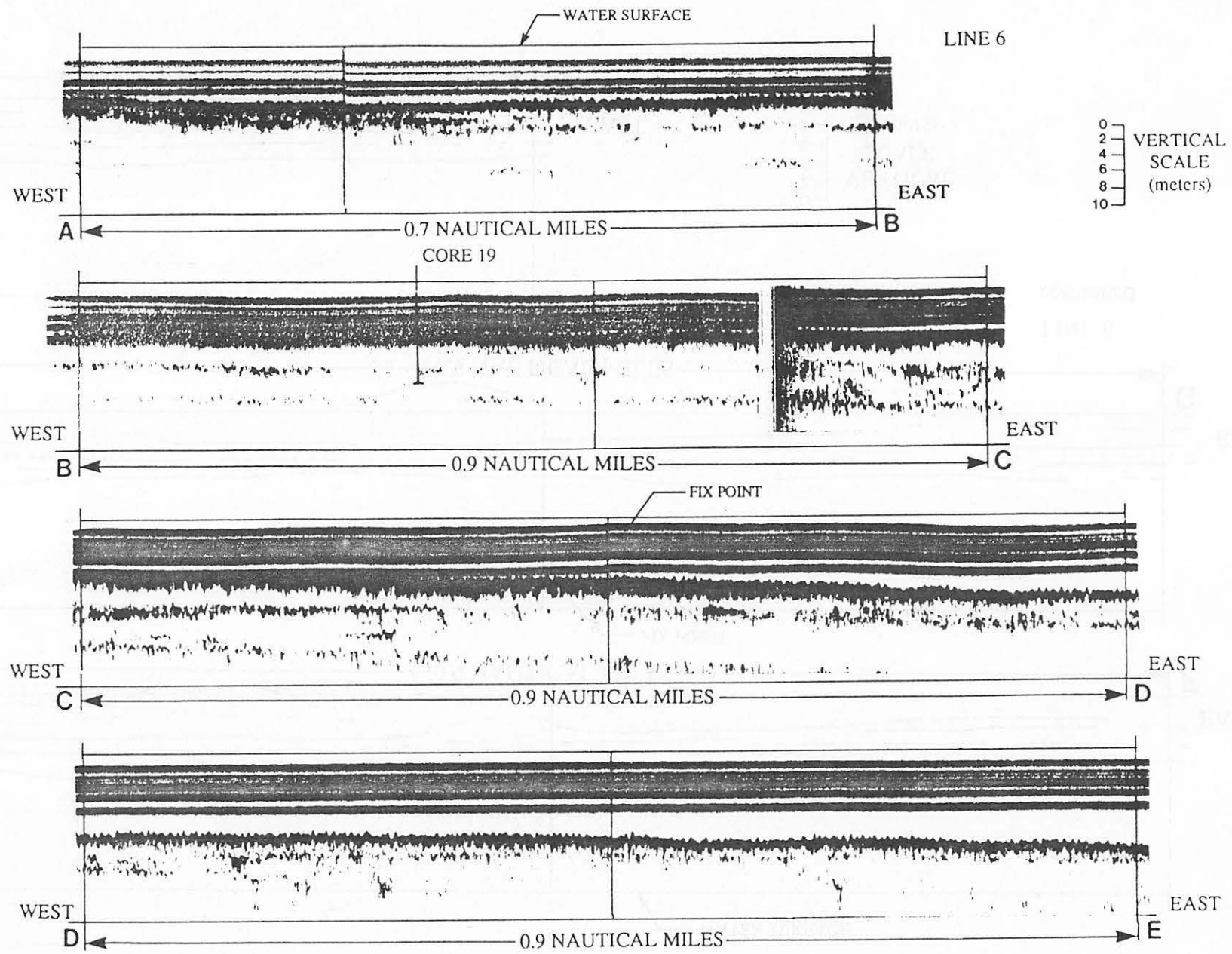
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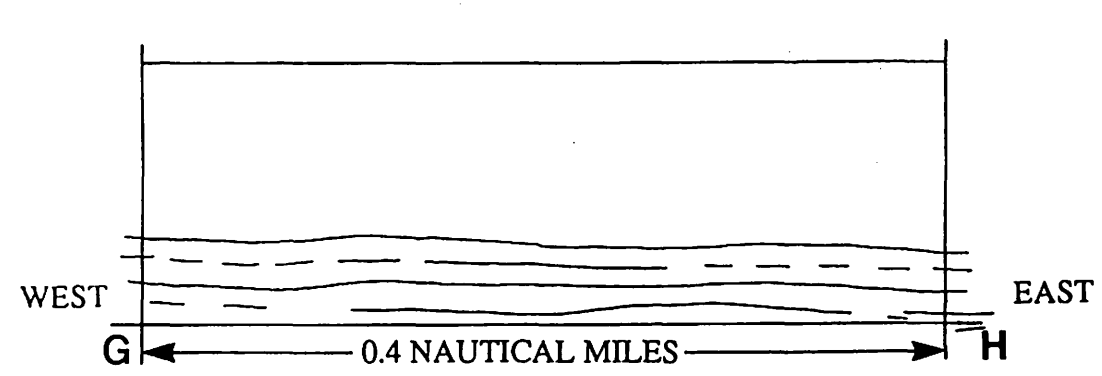
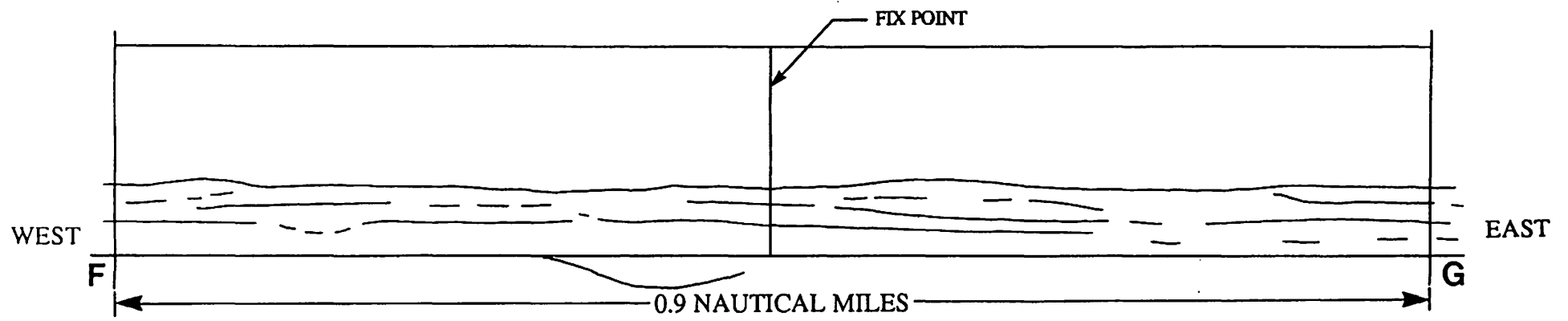
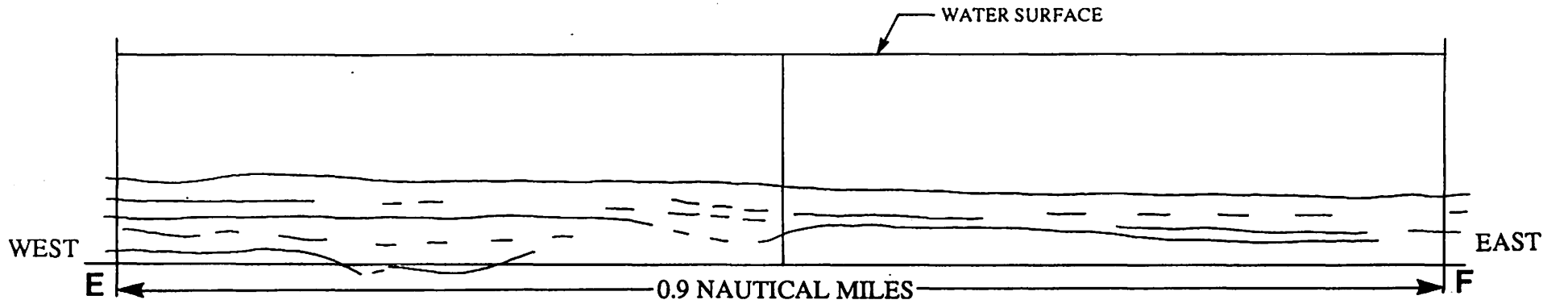
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**Records of East-West Trending Lines**

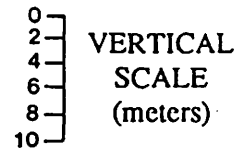


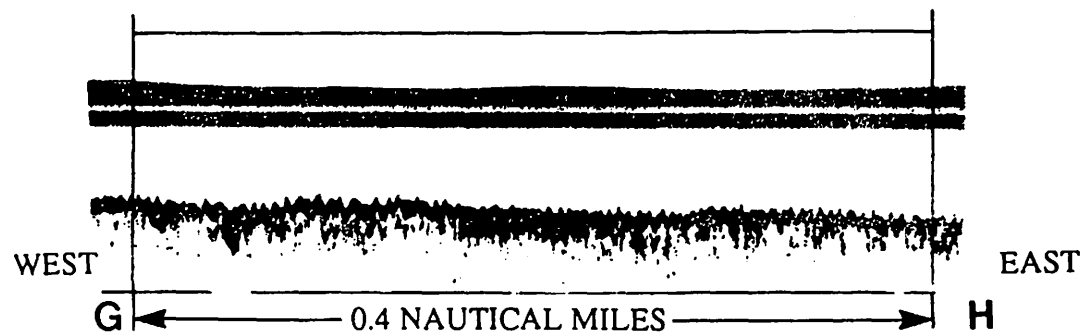
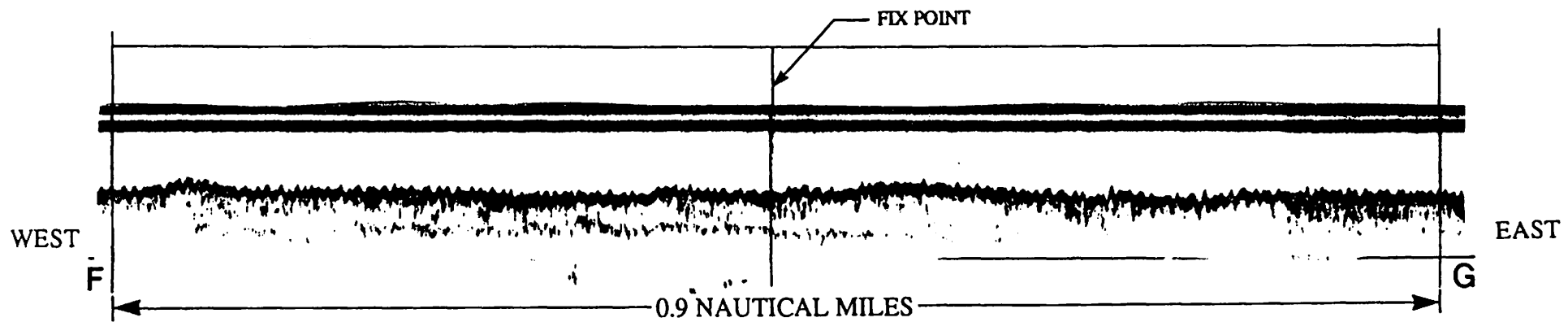
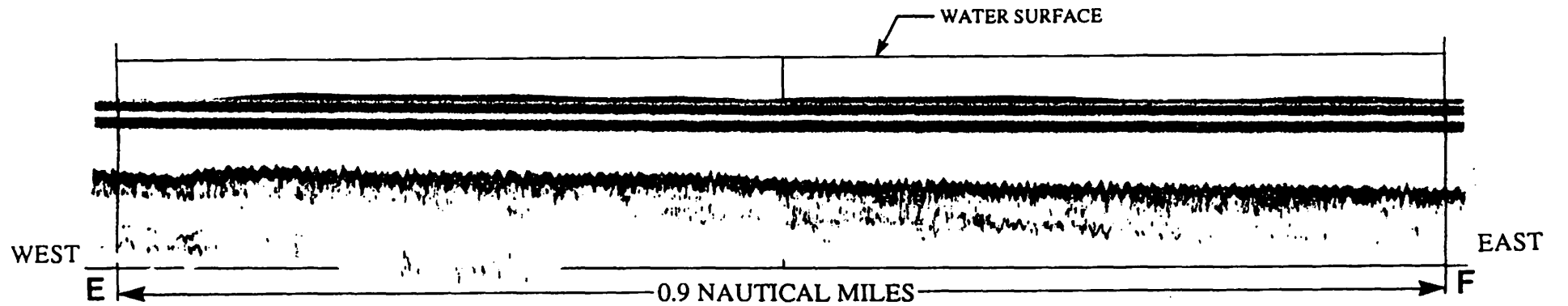




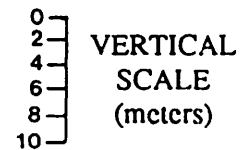


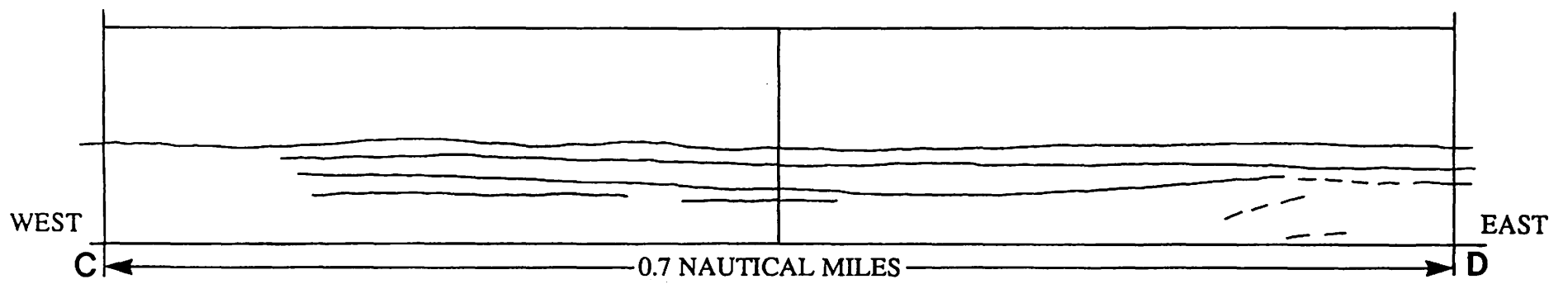
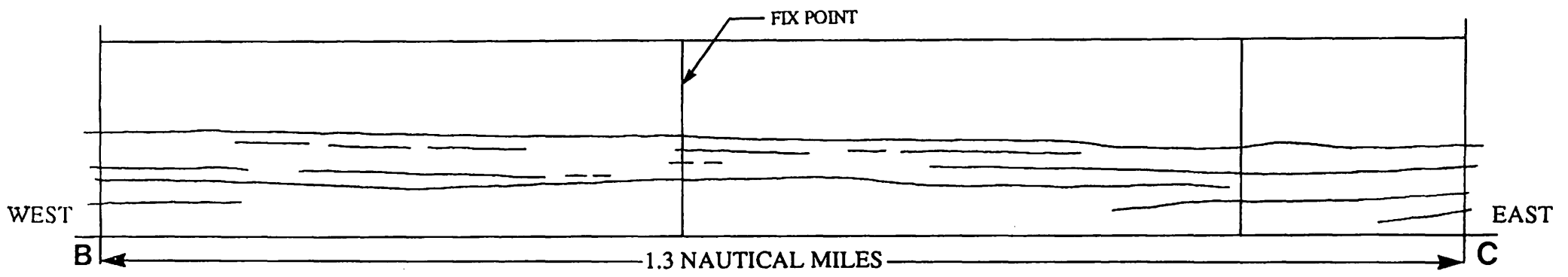
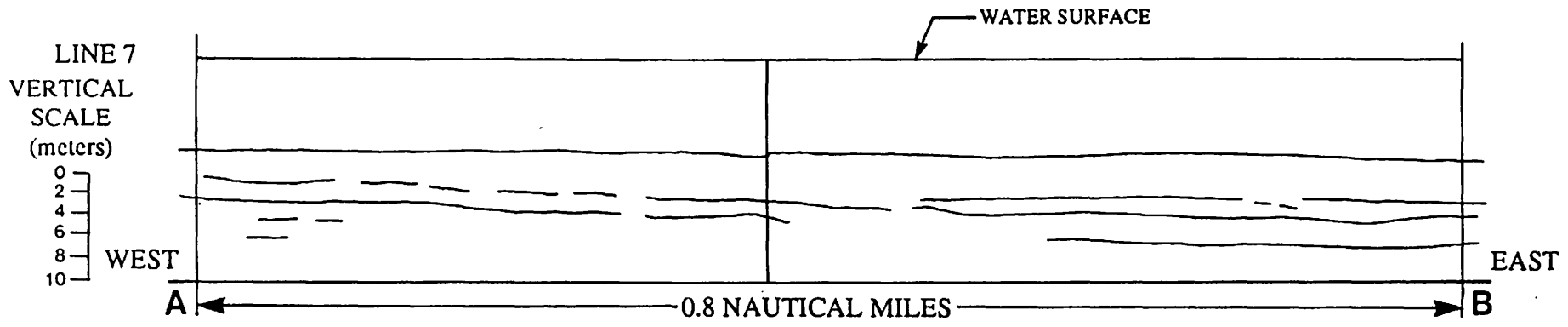
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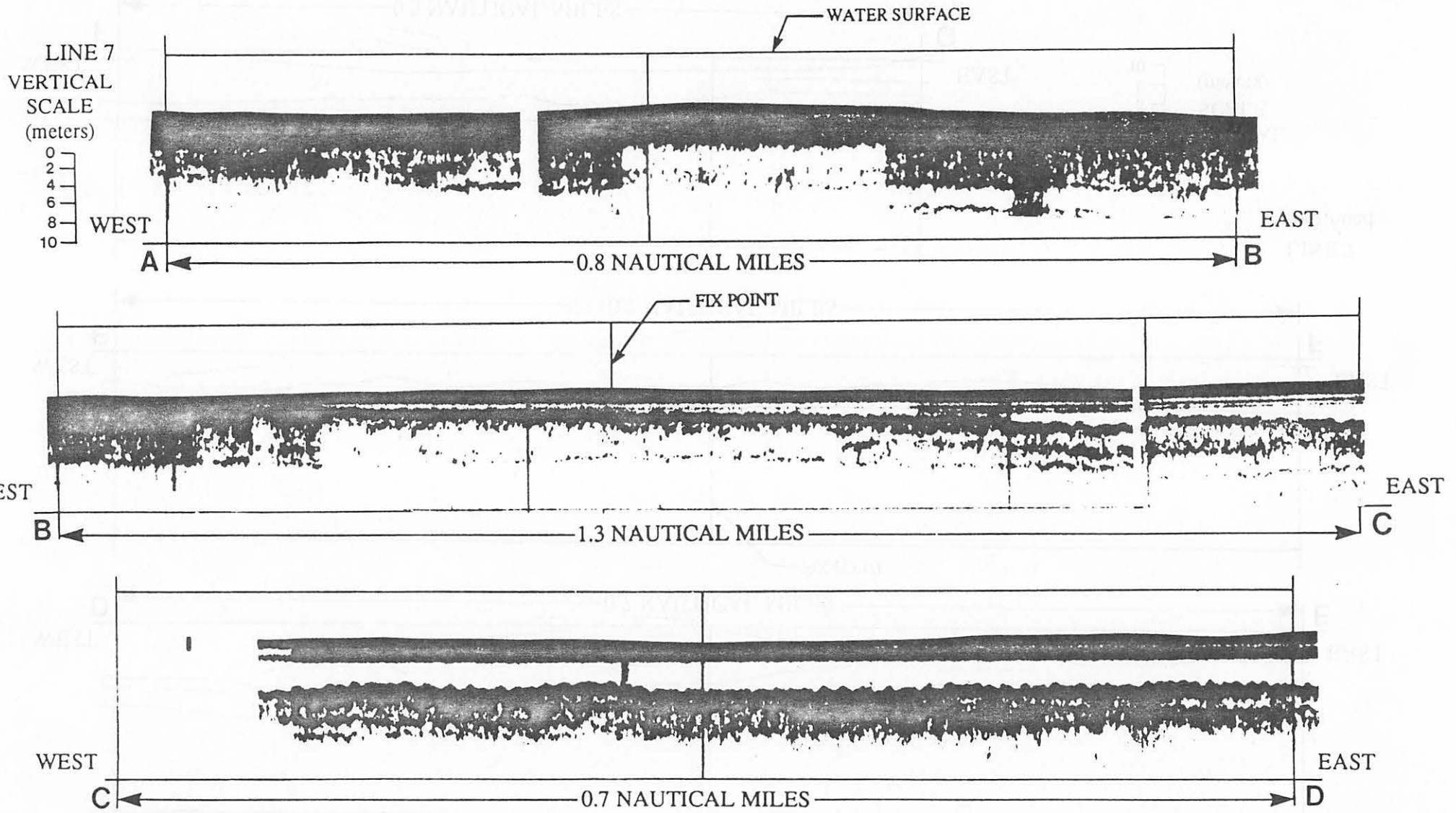


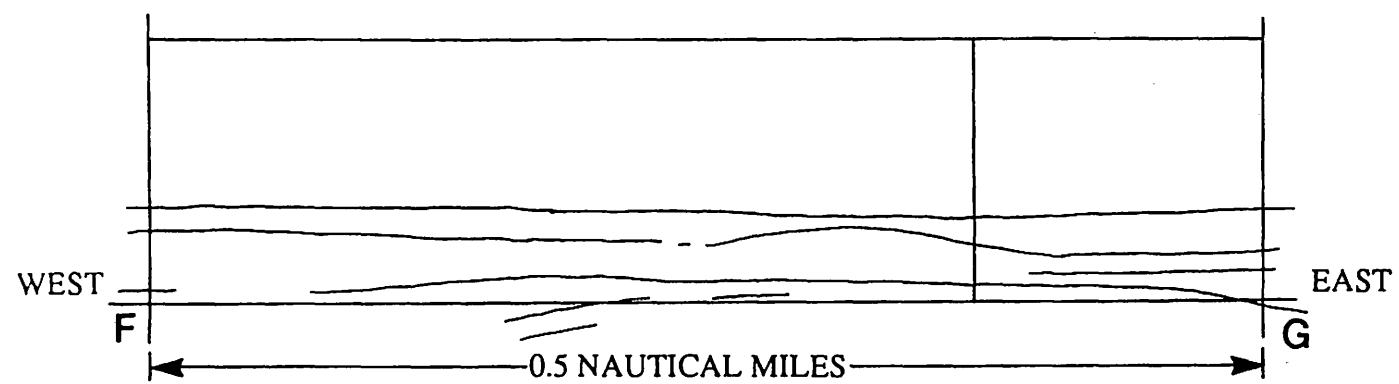
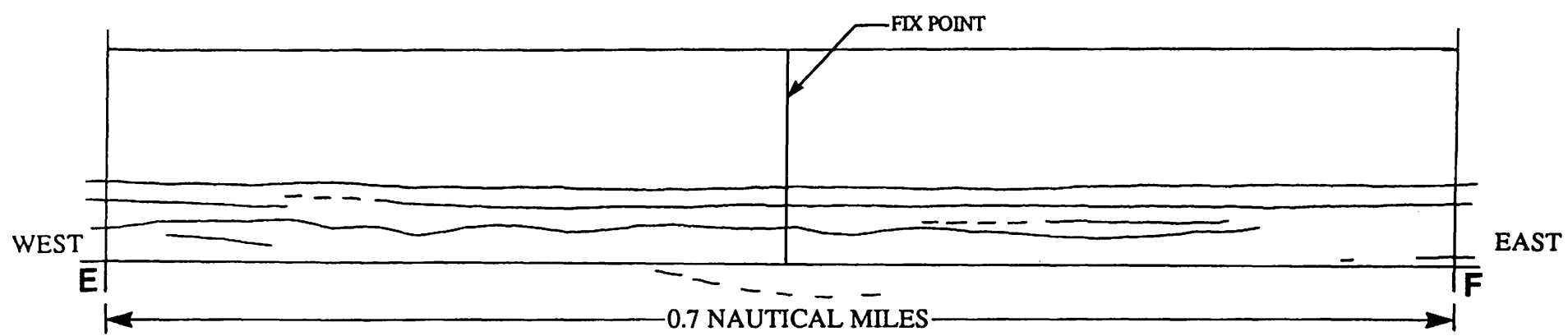
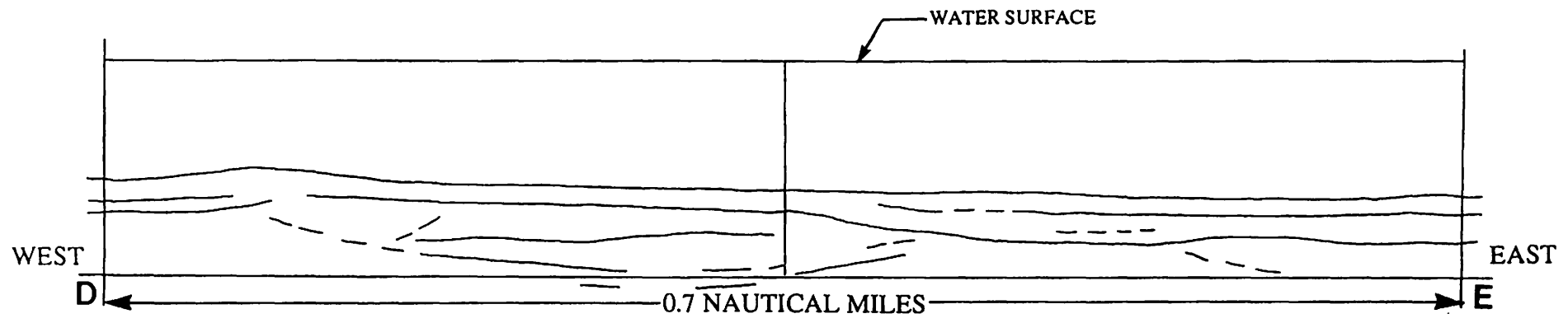


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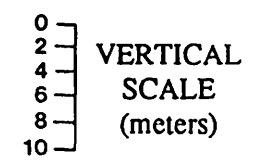


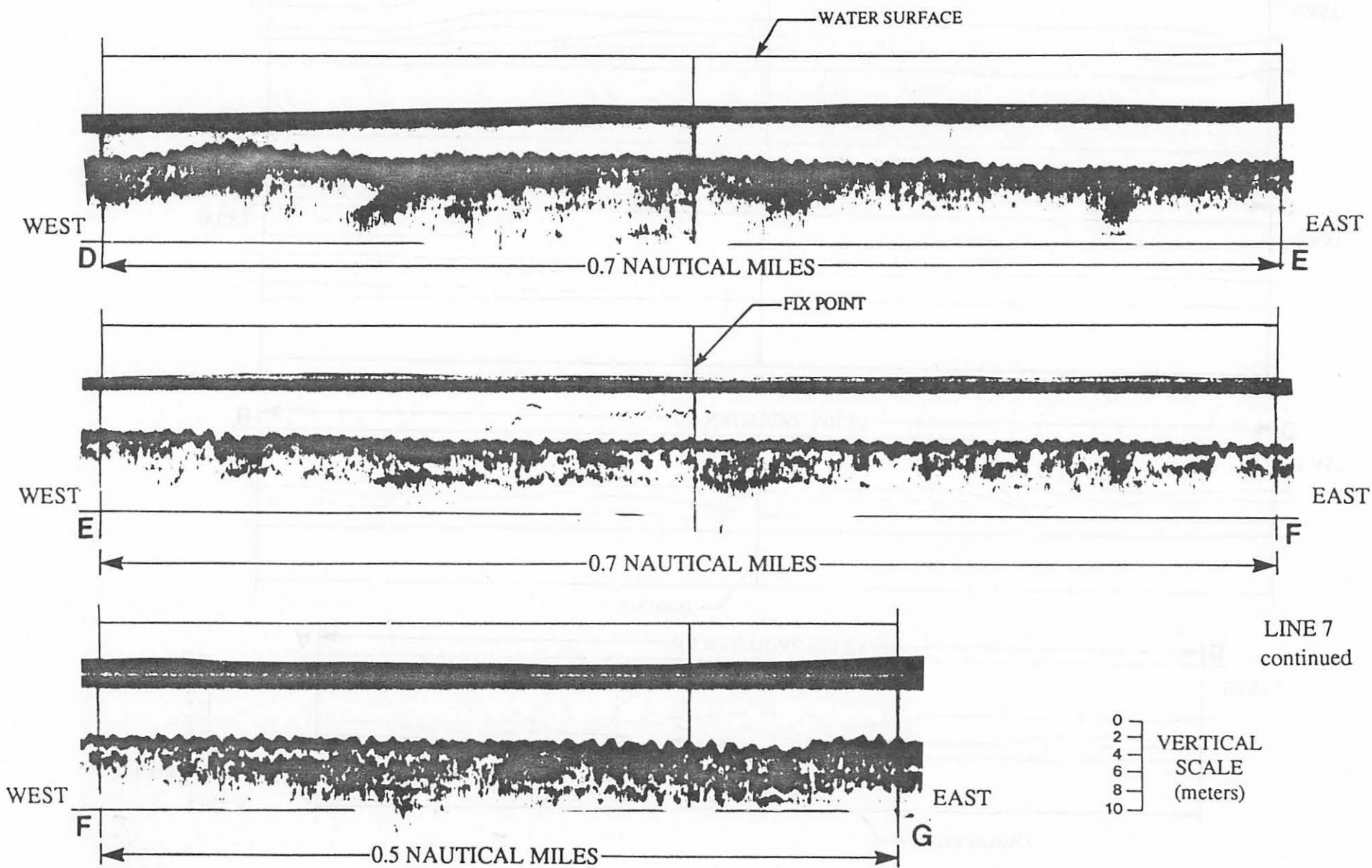


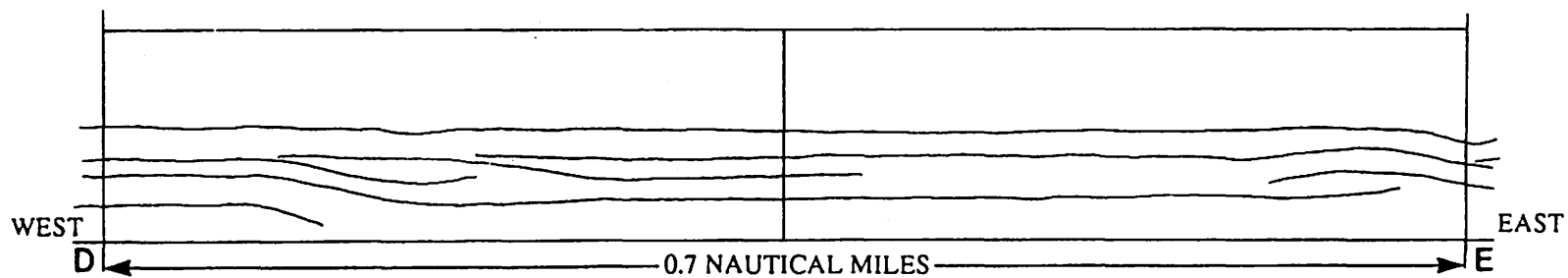
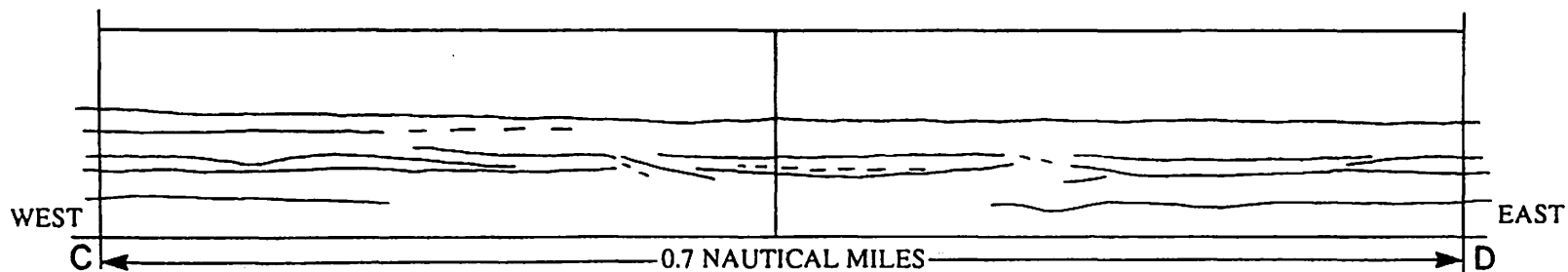
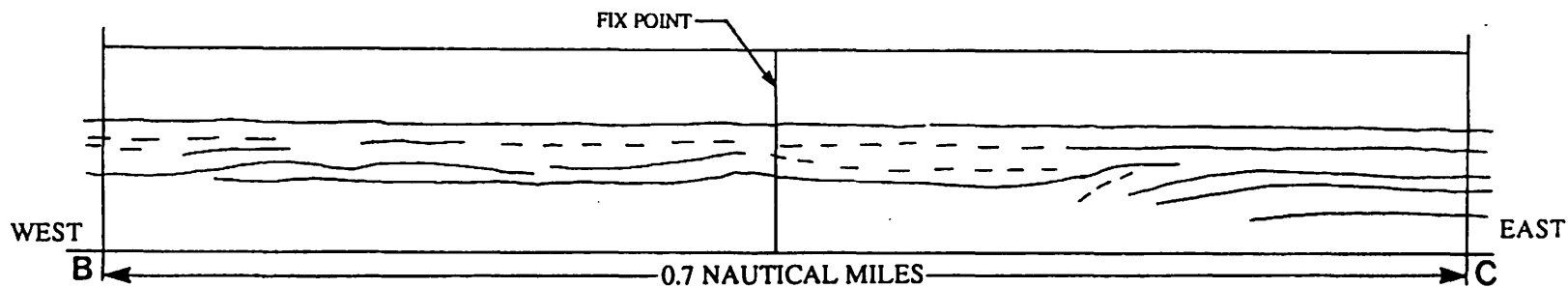
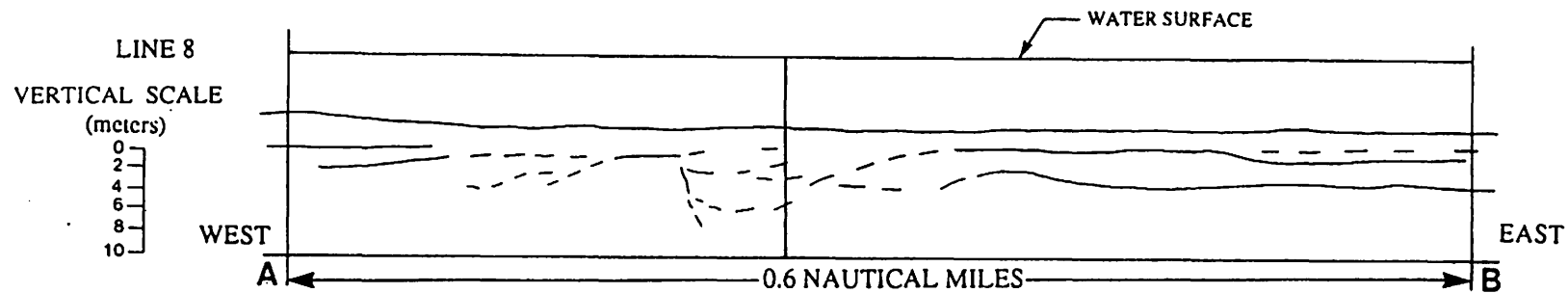




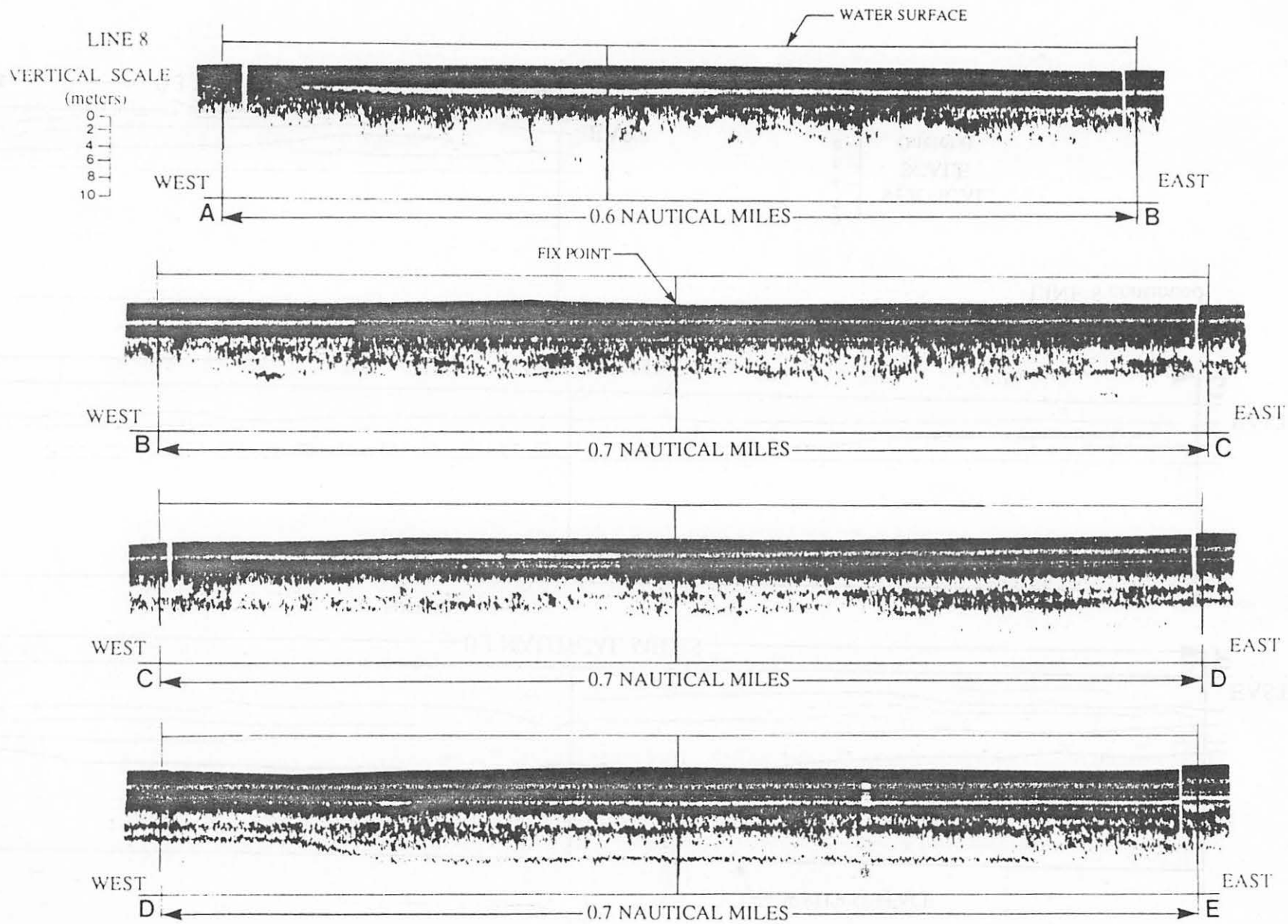
LINE 7  
continued

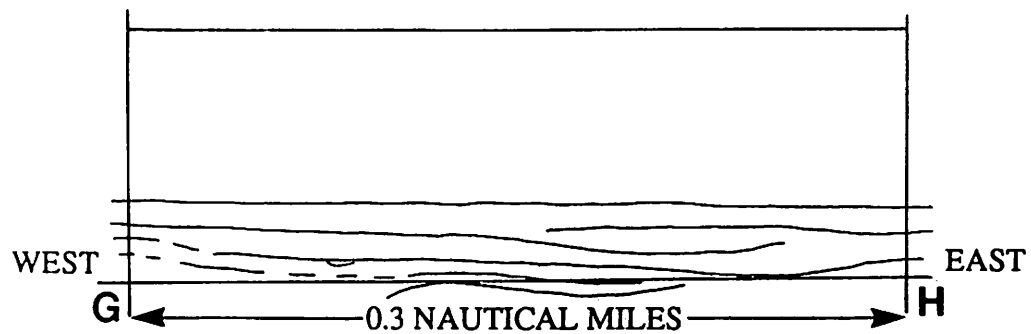
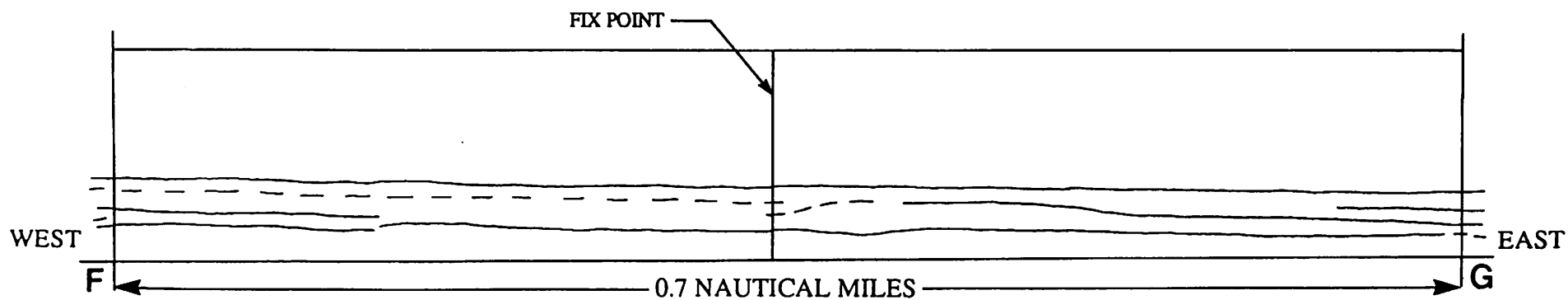
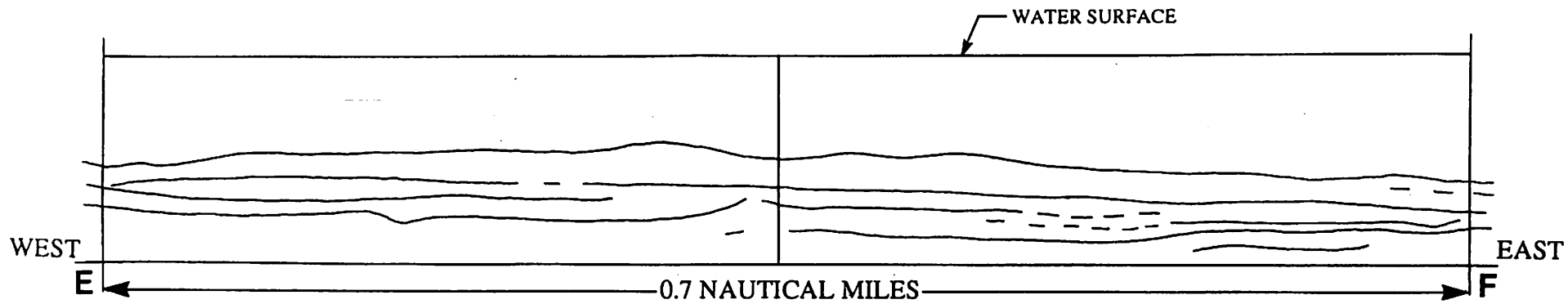




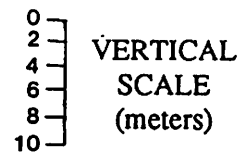


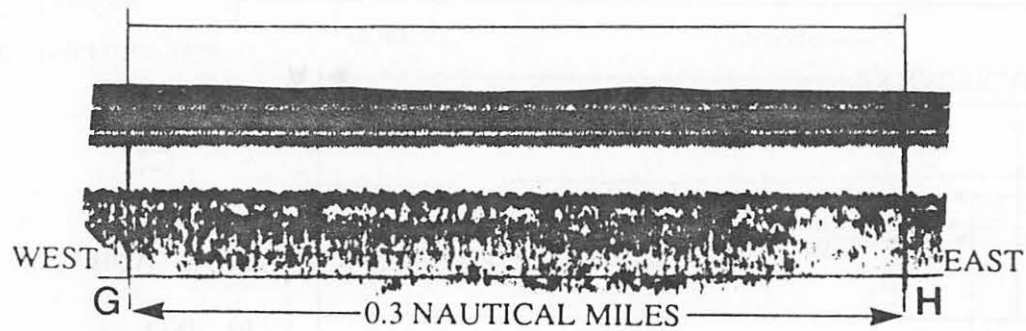
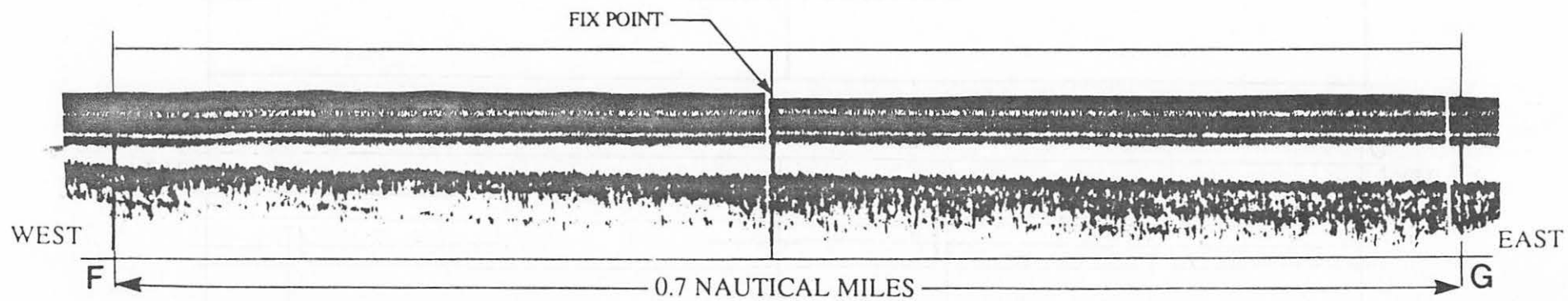
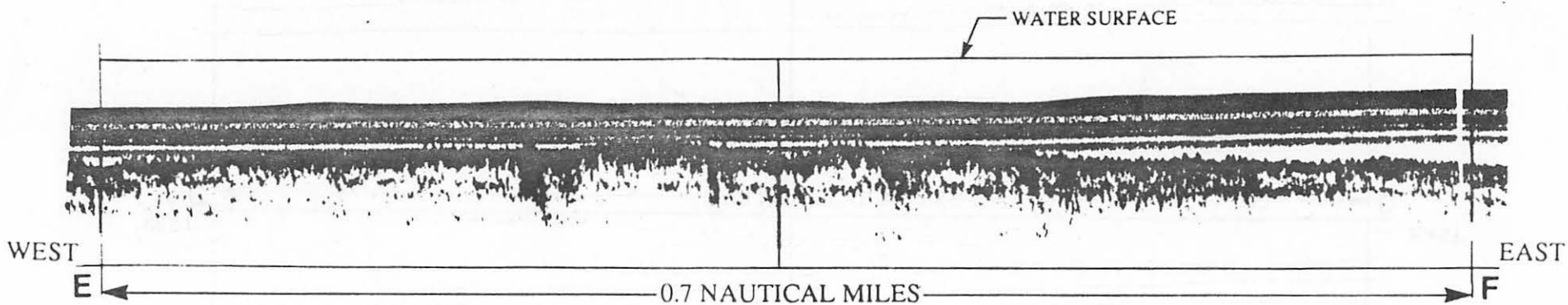




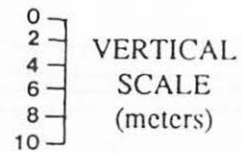


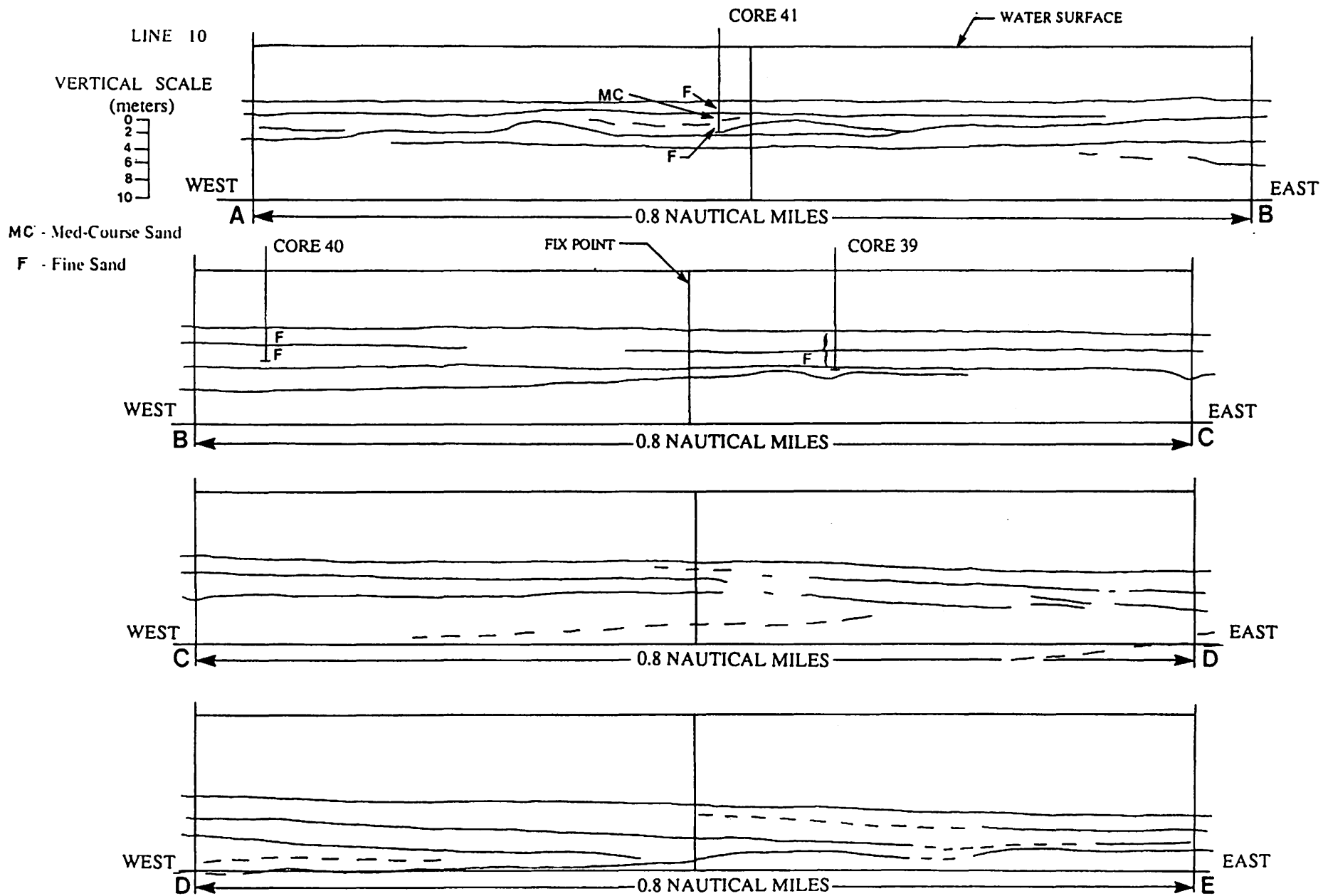
LINE 8 continued

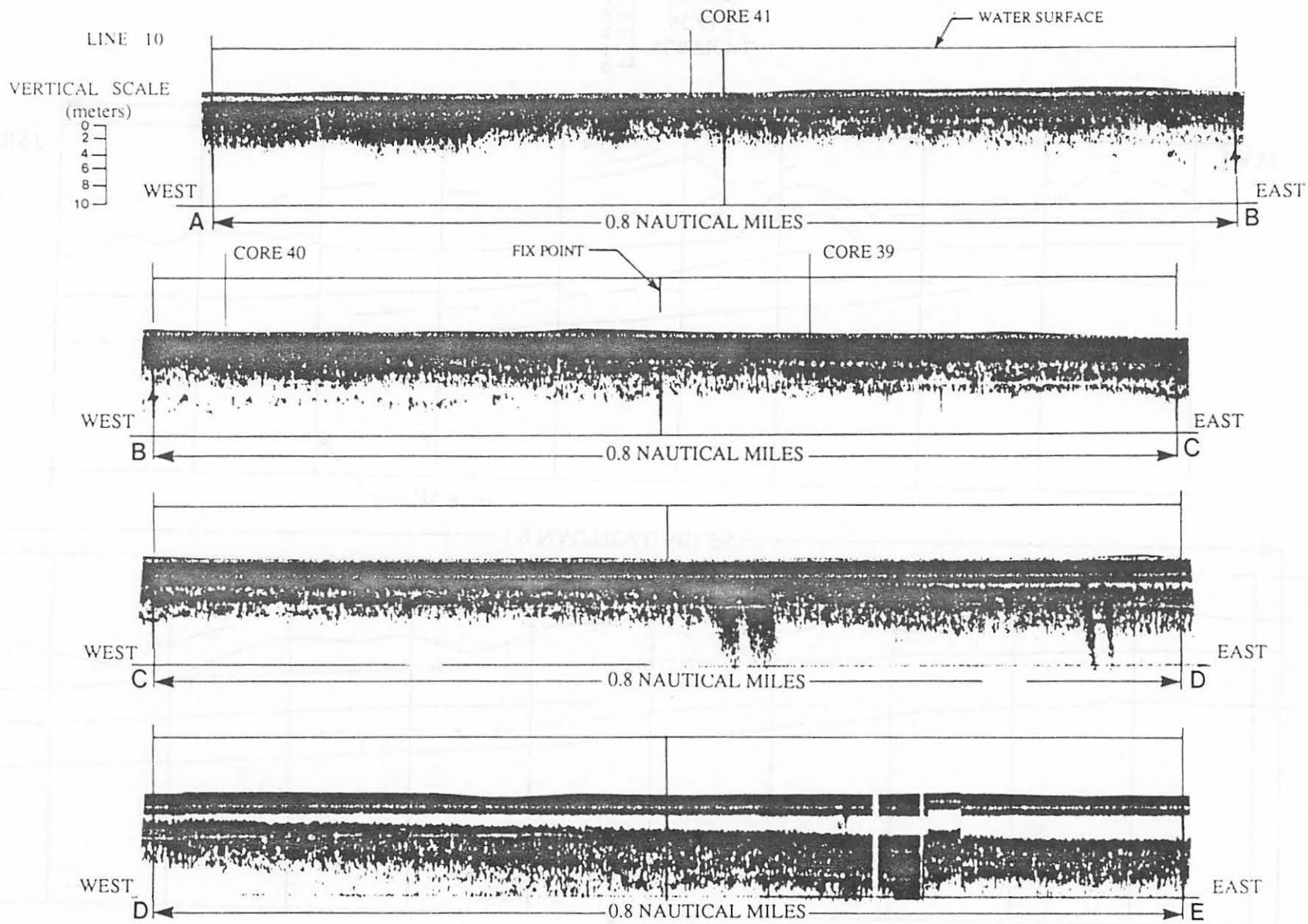


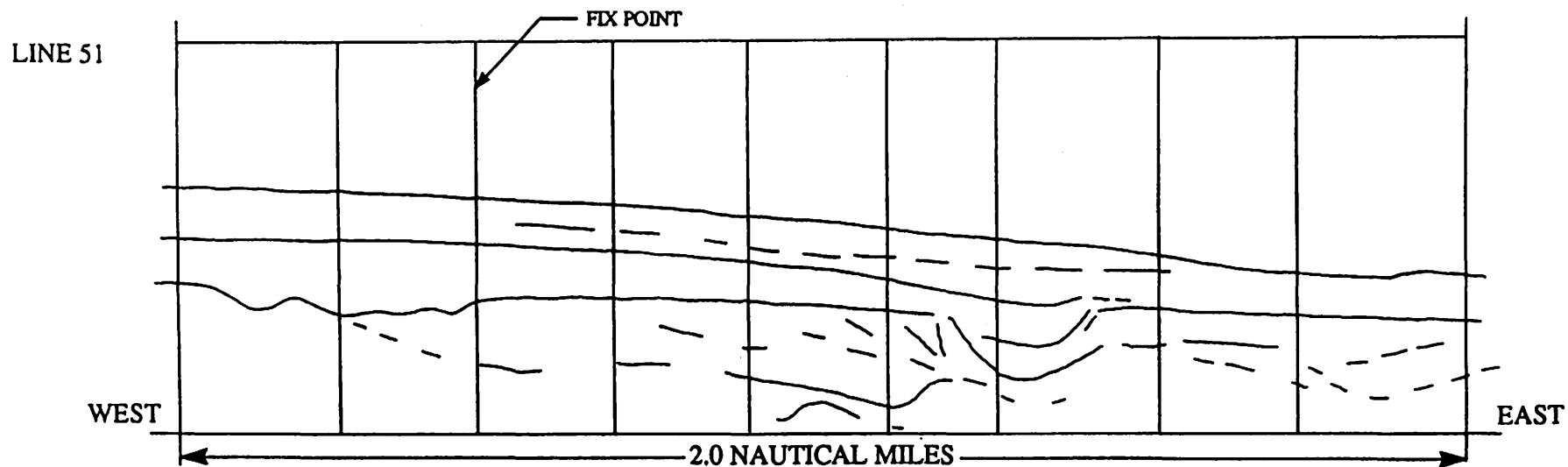
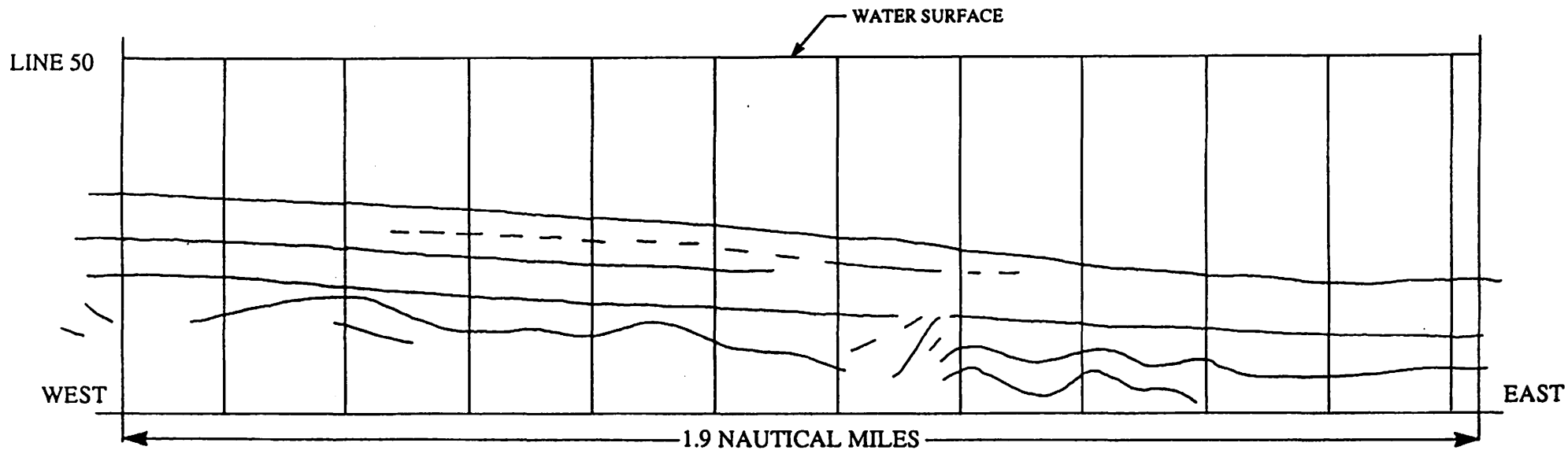


LINE 8 continued





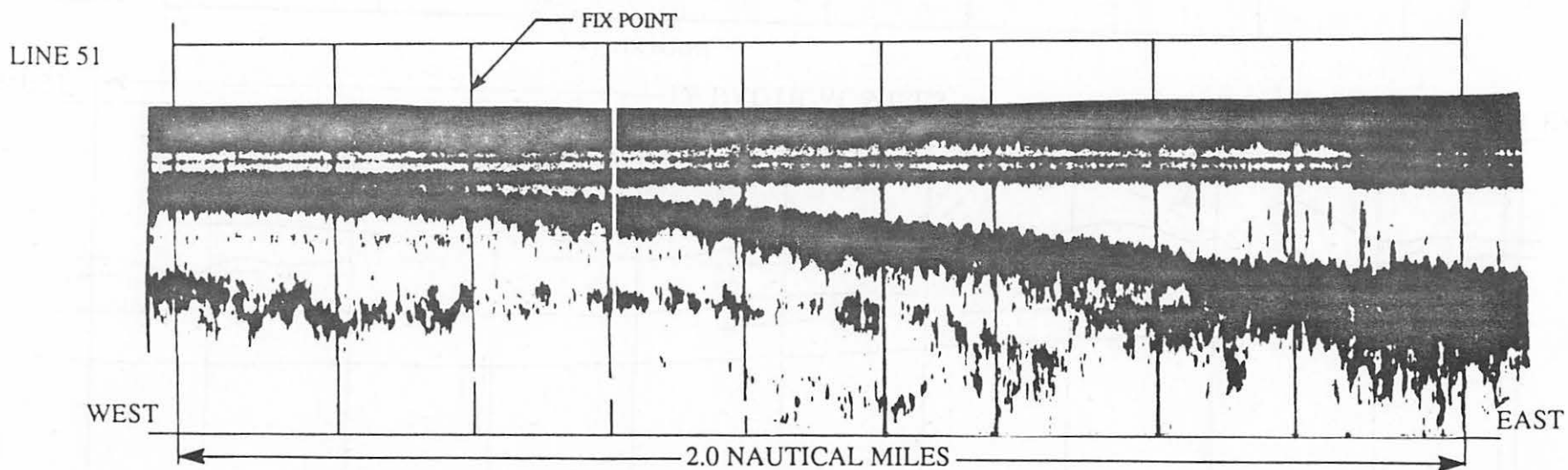
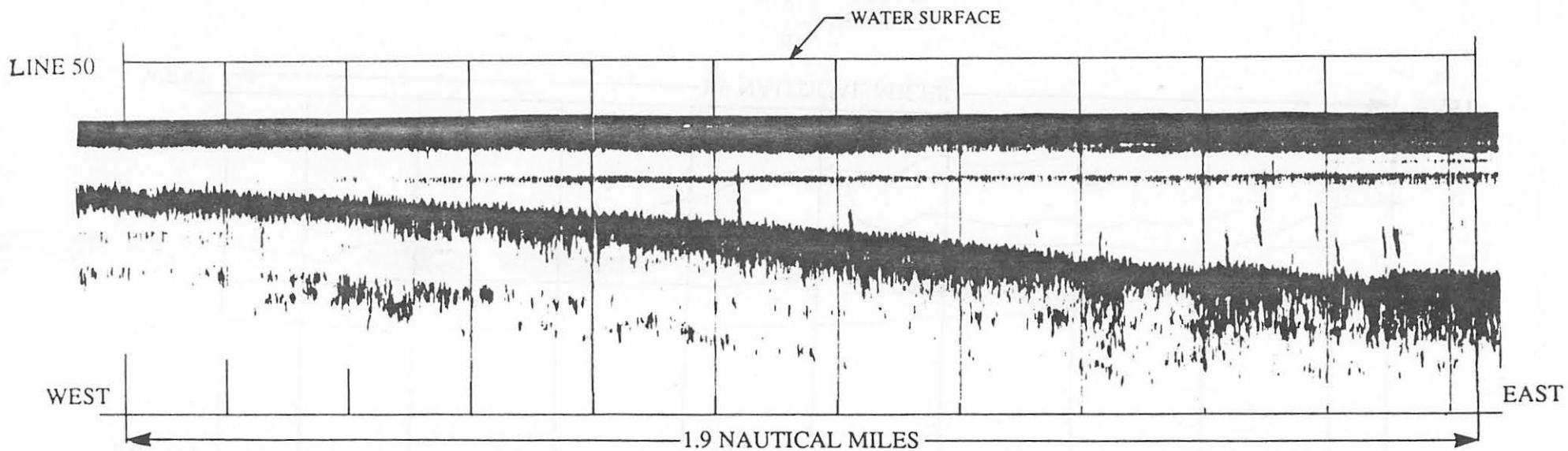




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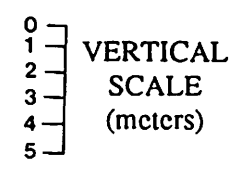
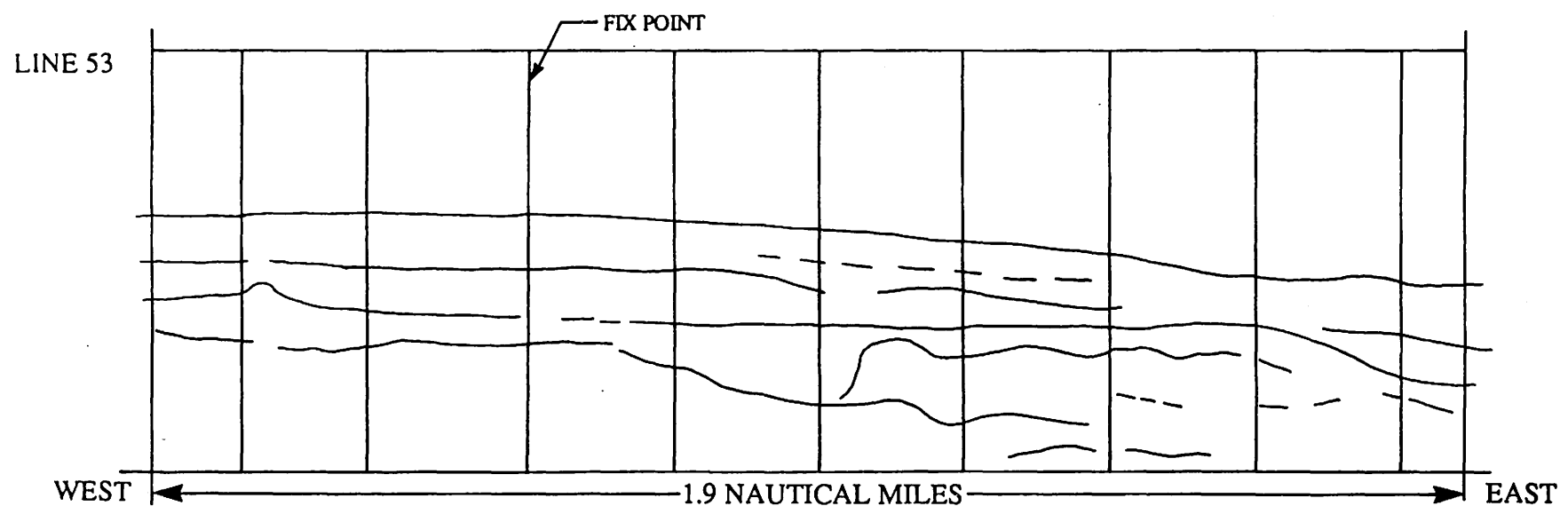
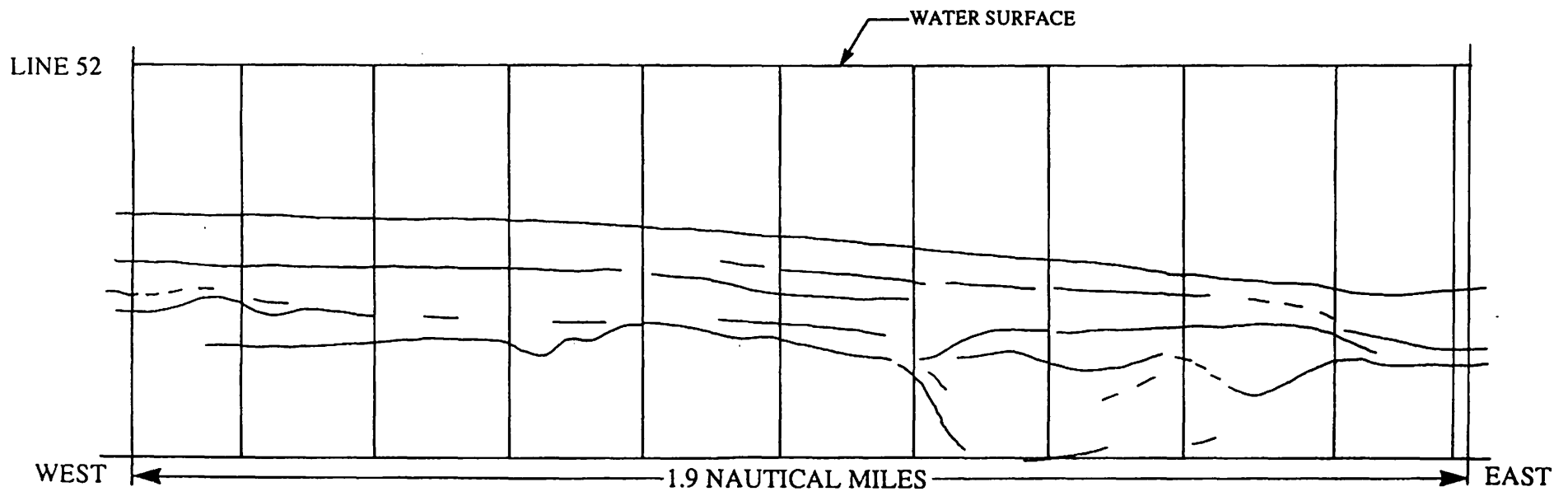
VERTICAL  
SCALE  
(meters)

A vertical scale bar is provided, ranging from 0 to 5 meters. The scale is marked at every meter, with the 0 mark at the top and the 5 mark at the bottom.

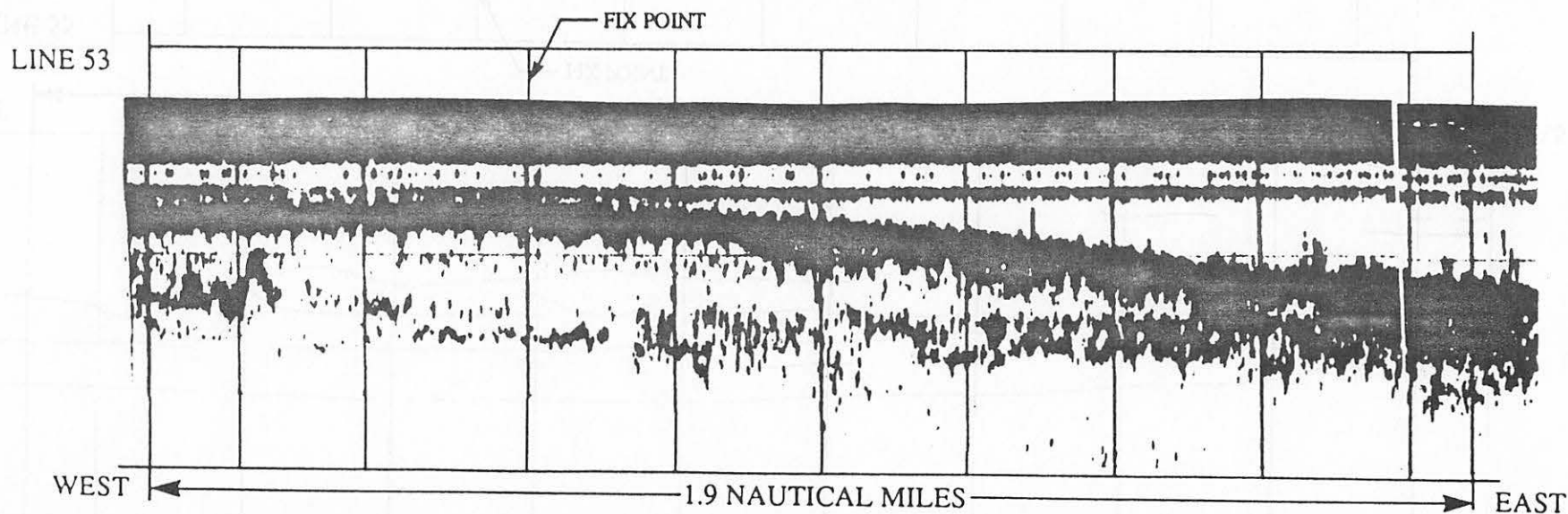
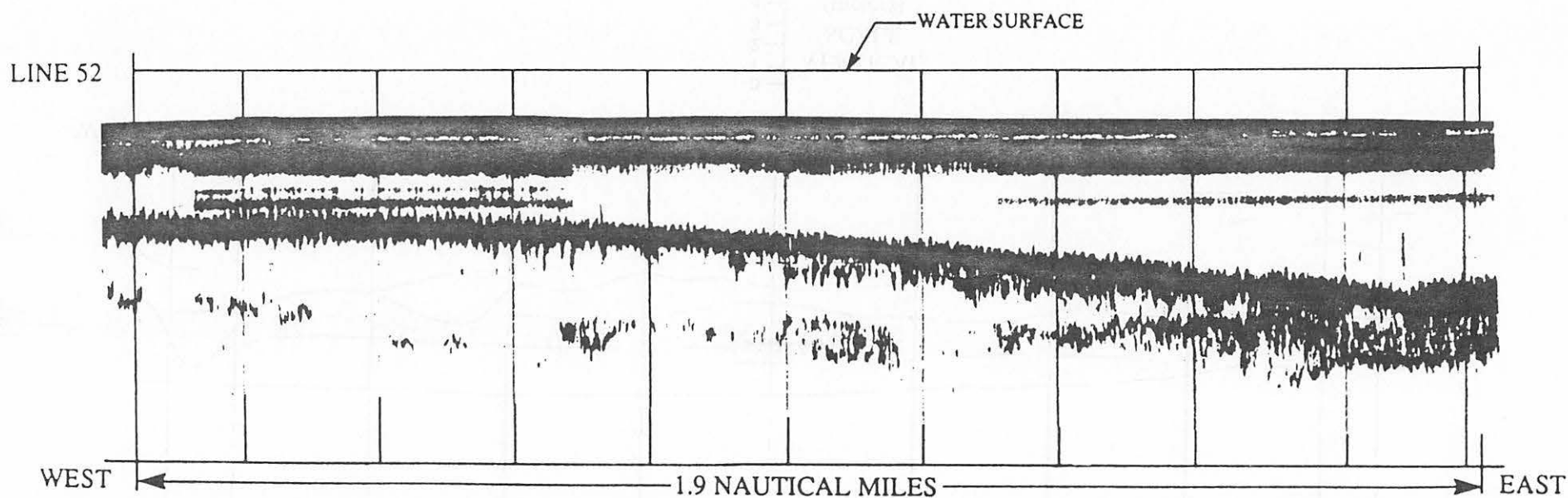


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VERTICAL  
SCALE  
(meters)

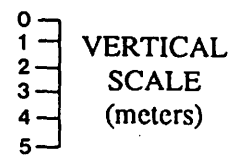
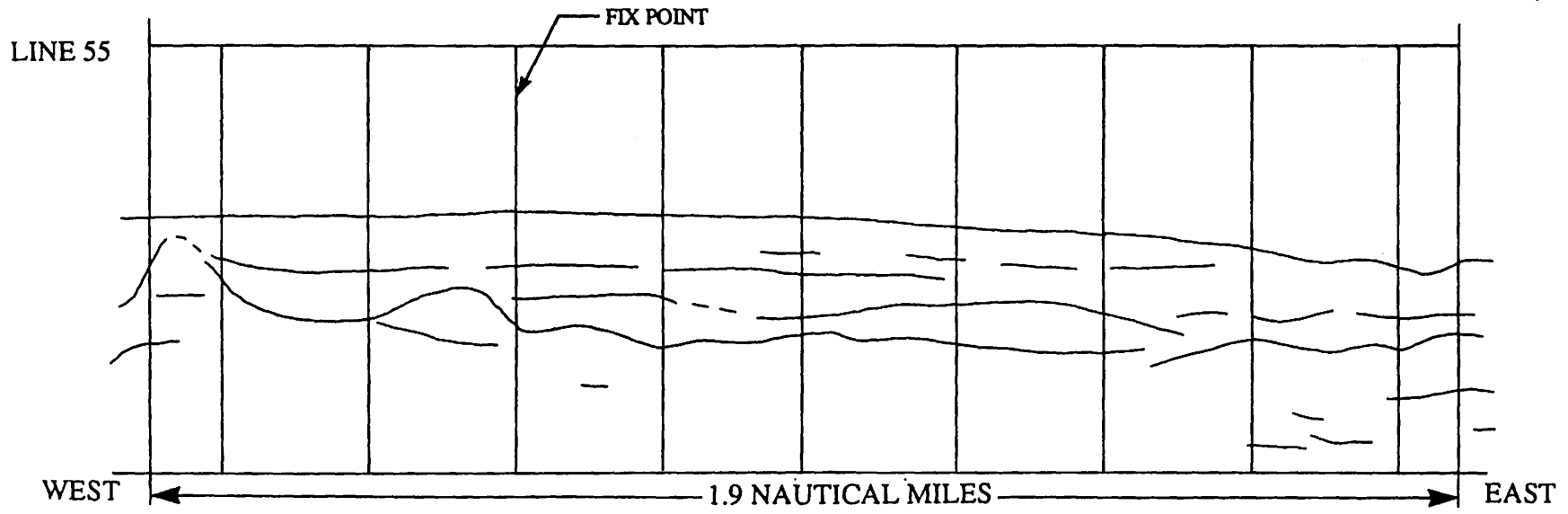
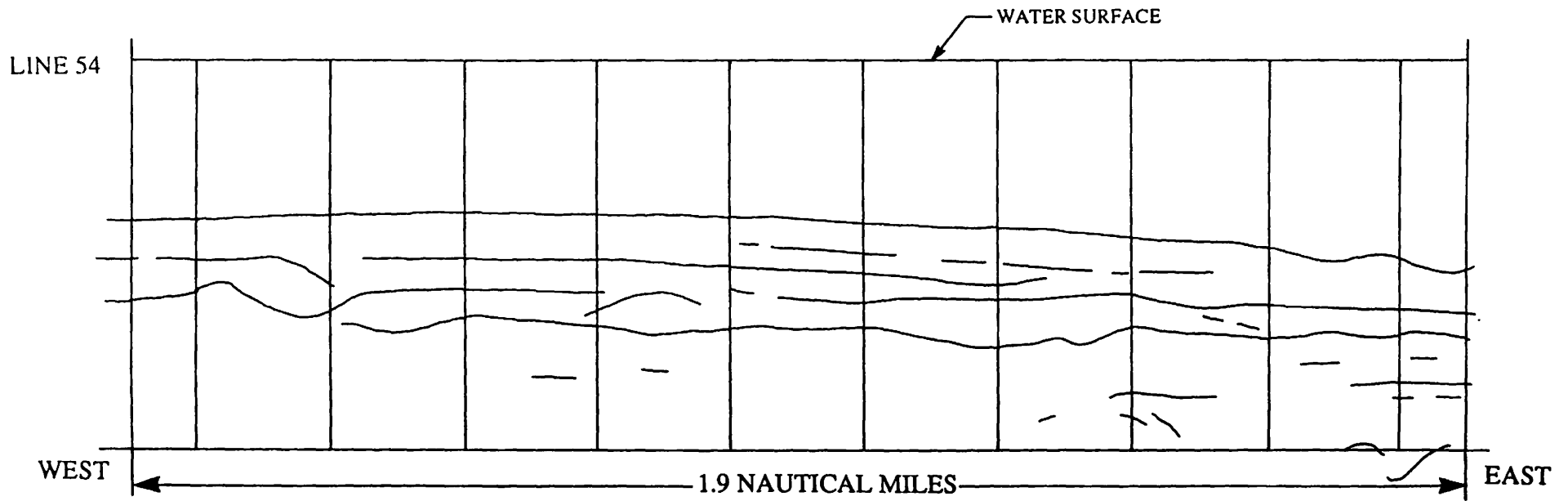


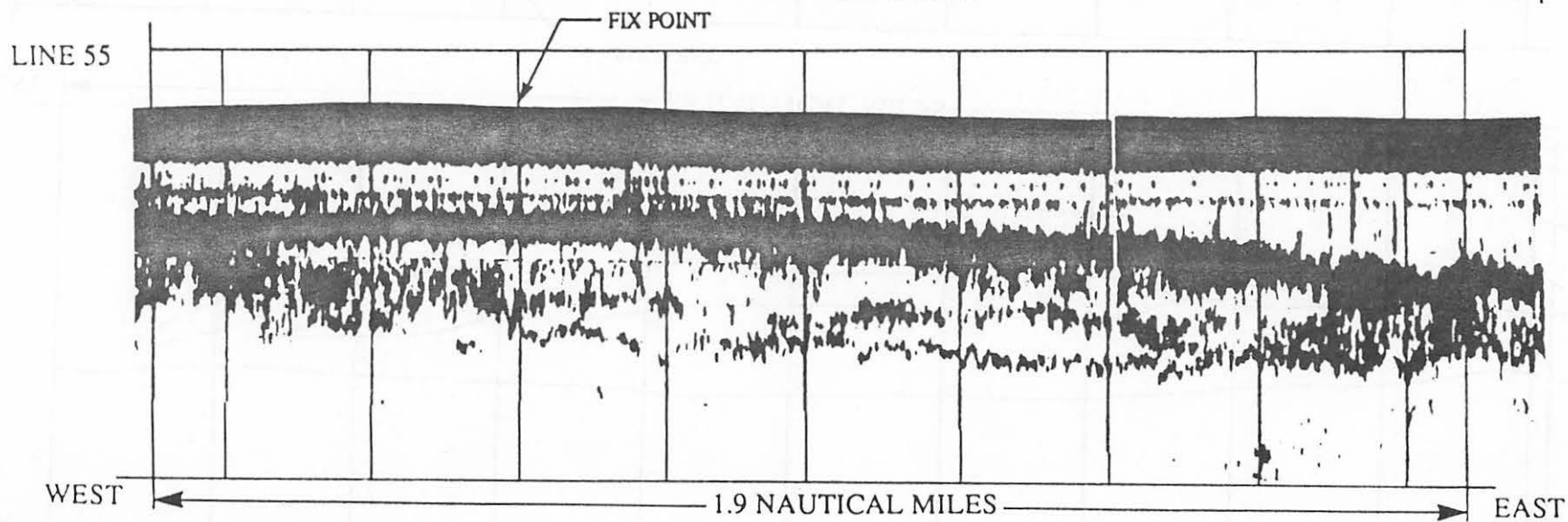
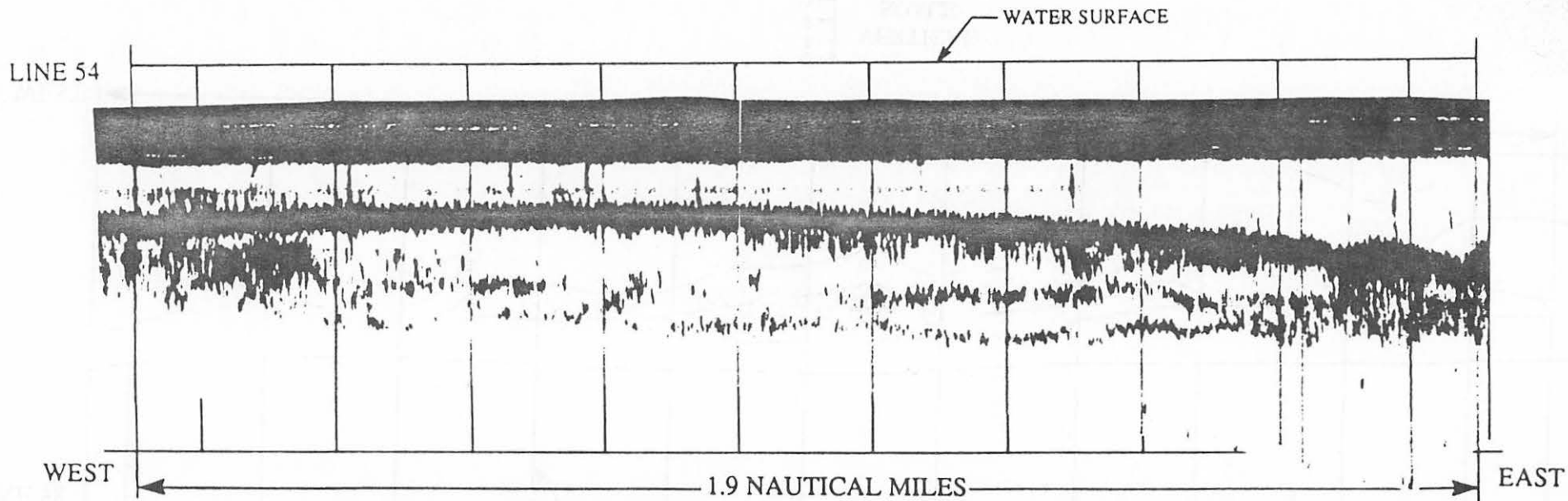




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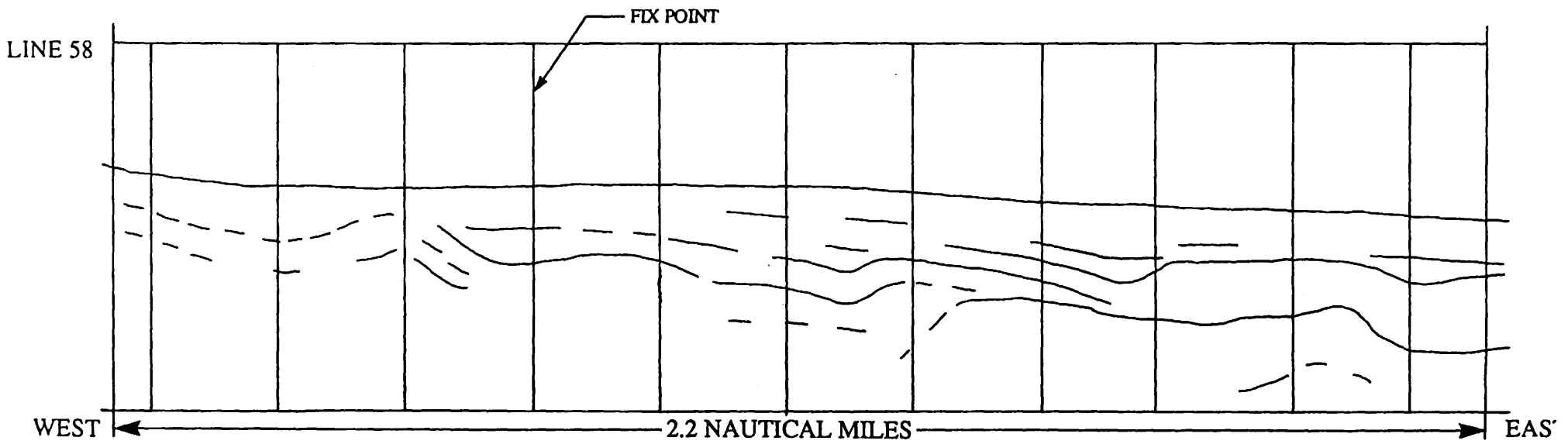
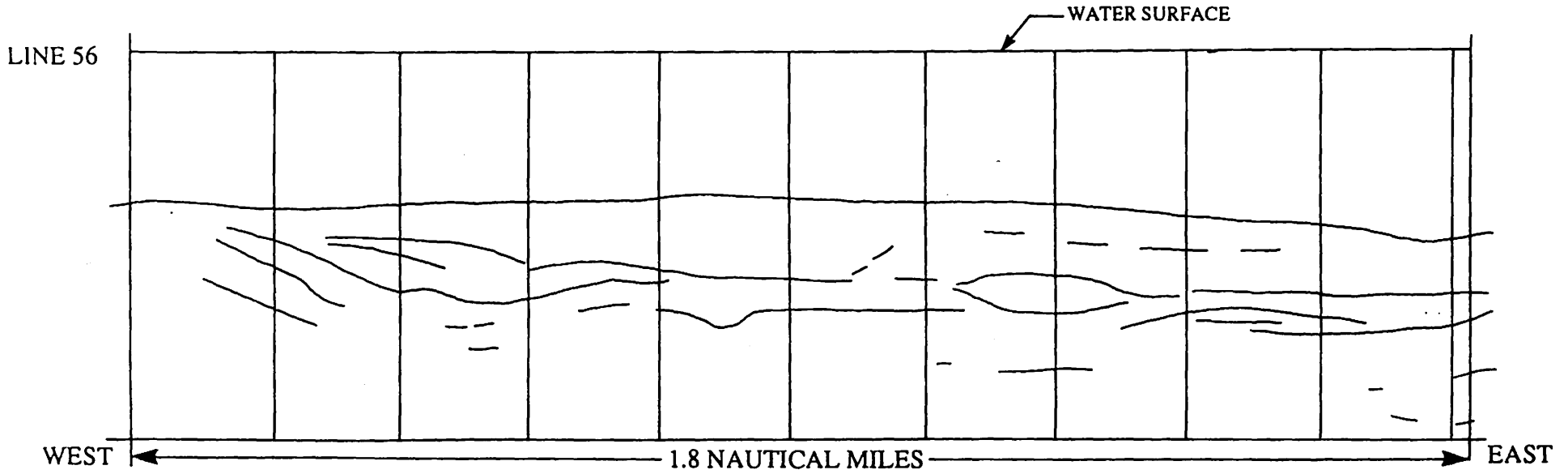
VERTICAL  
SCALE  
(meters)





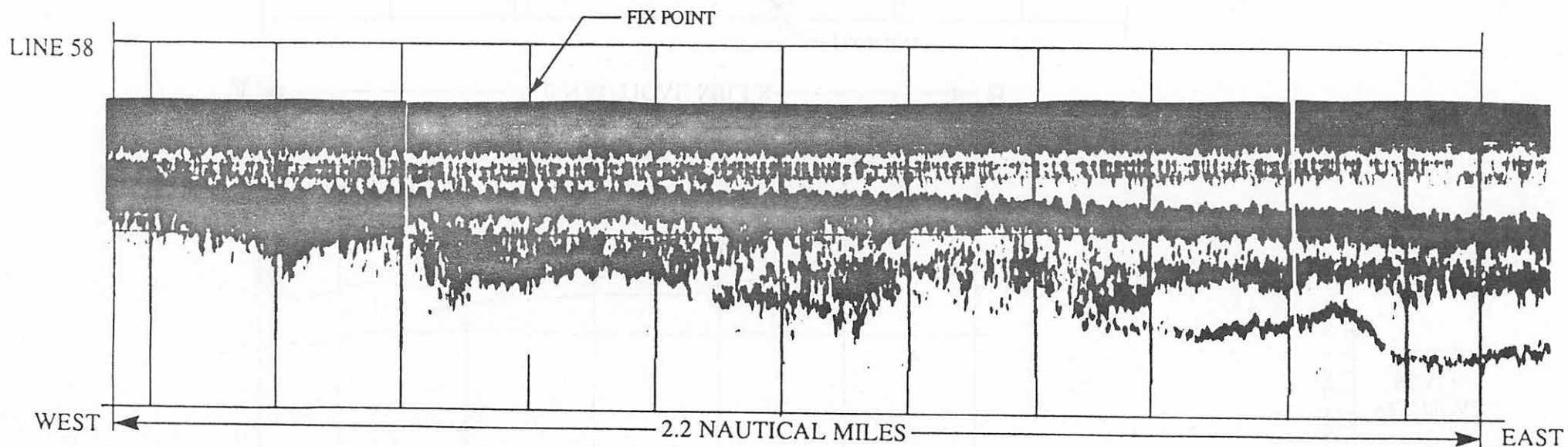
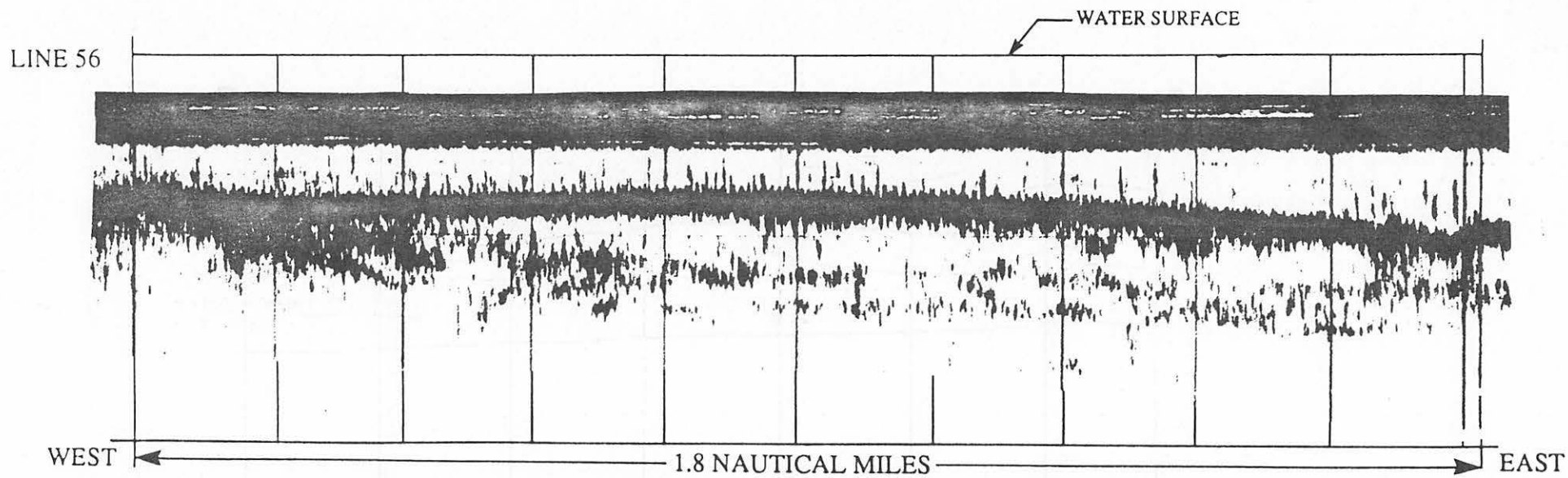
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VERTICAL  
SCALE  
(meters)



0  
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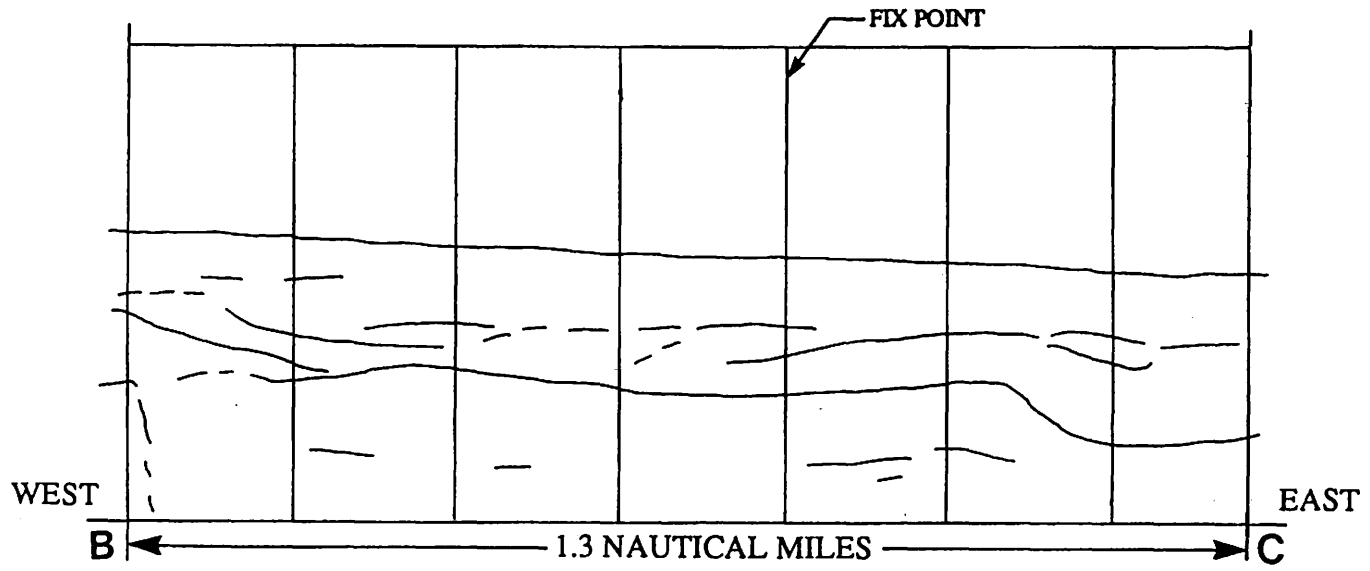
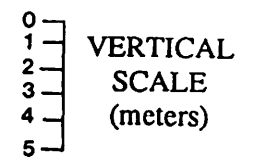
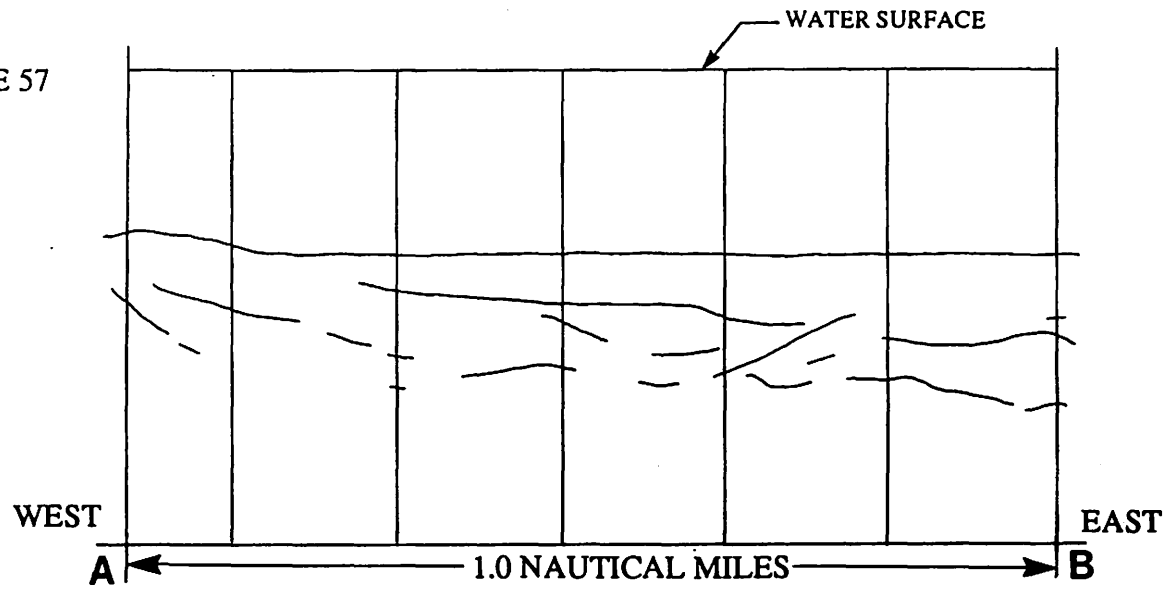
VERTICAL  
SCALE  
(meters)

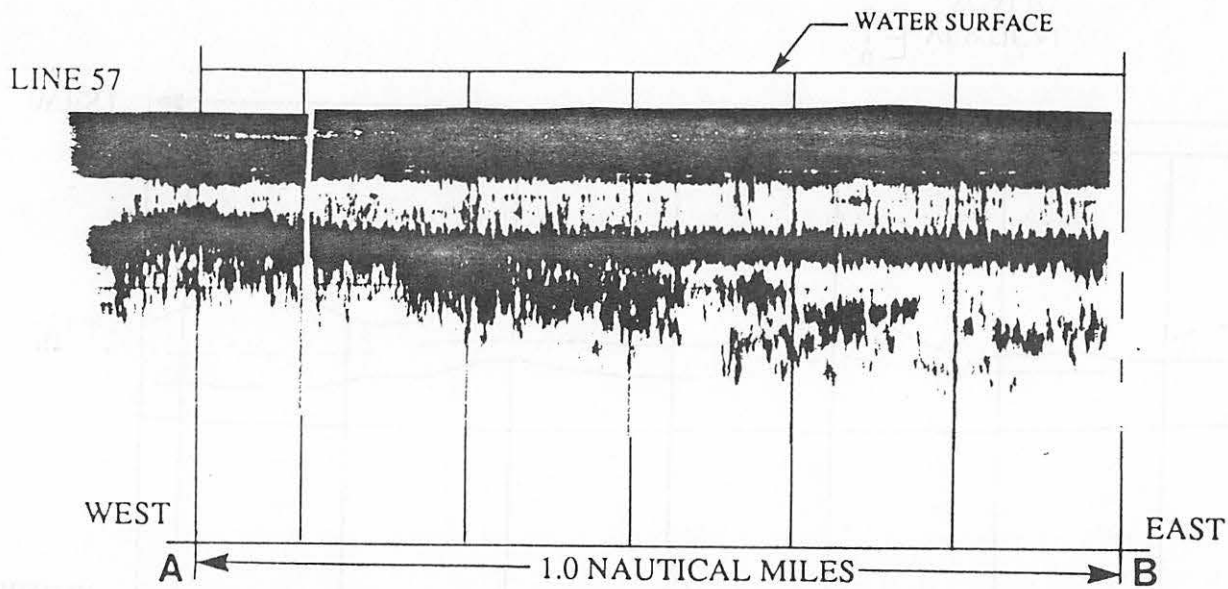


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VERTICAL  
SCALE  
(meters)

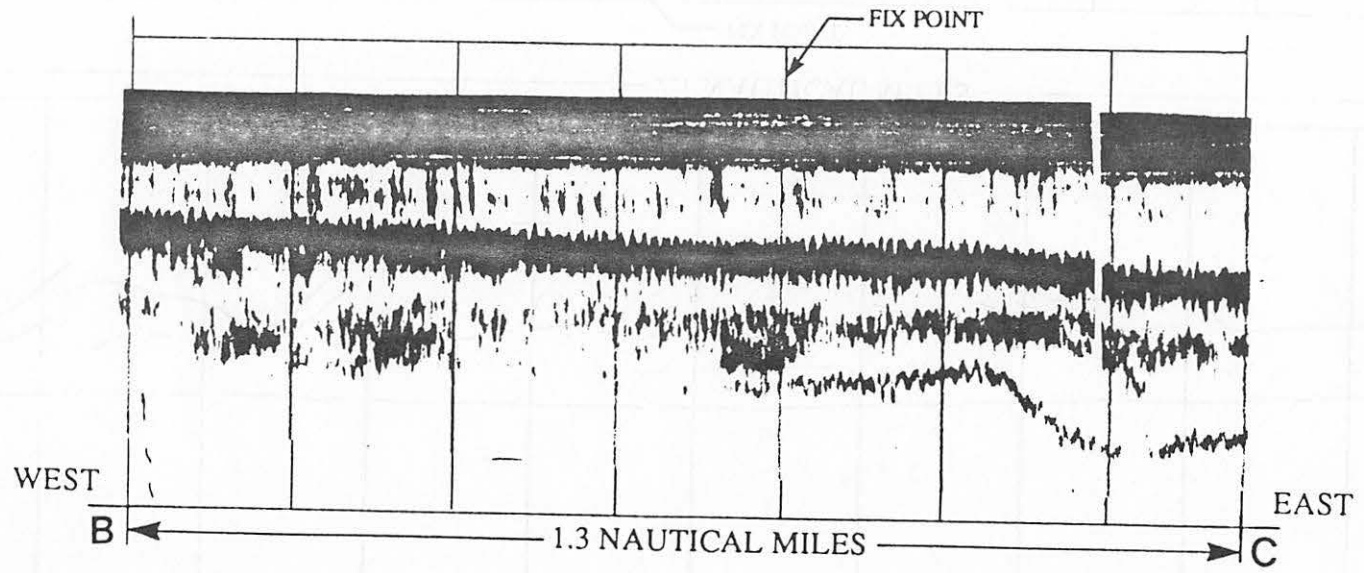
LINE 57

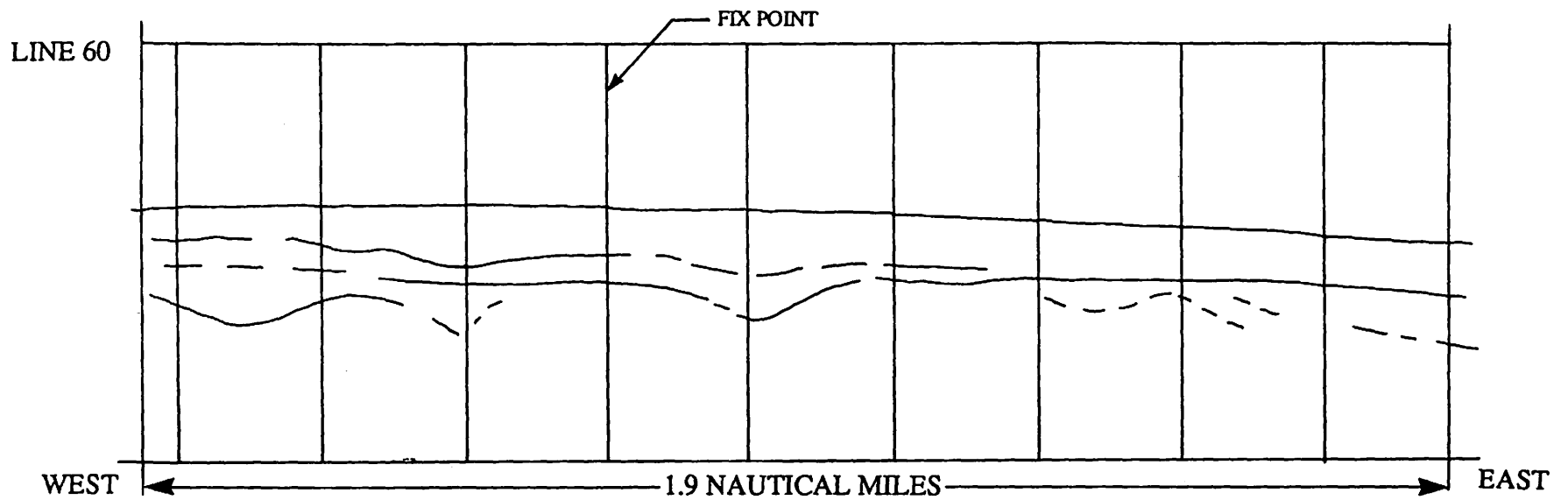
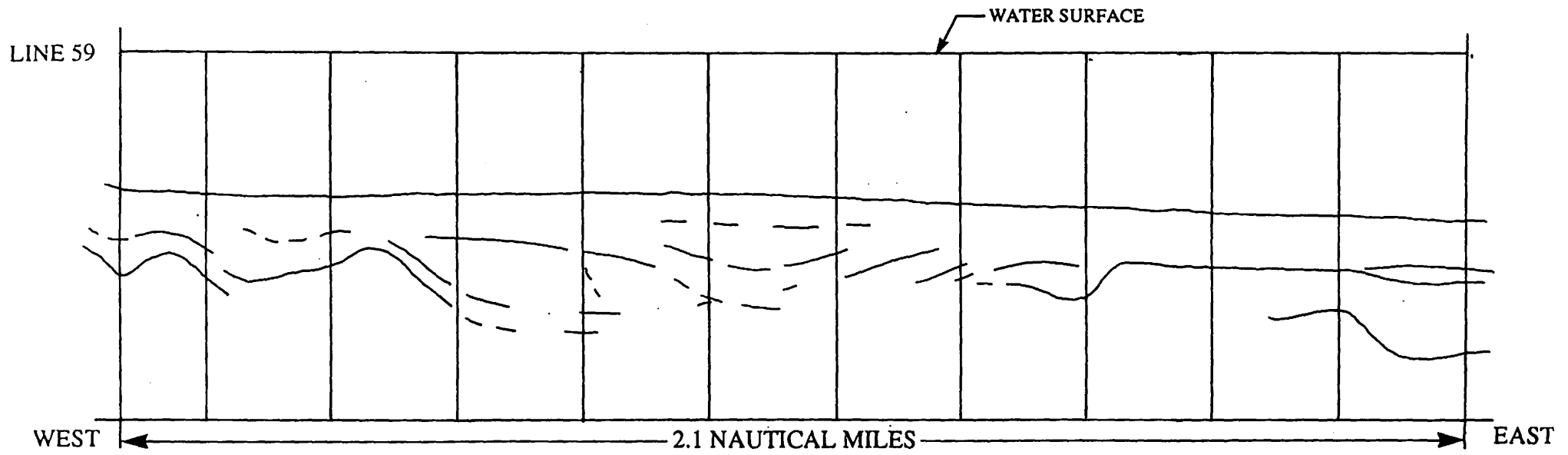




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VERTICAL  
SCALE  
(meters)

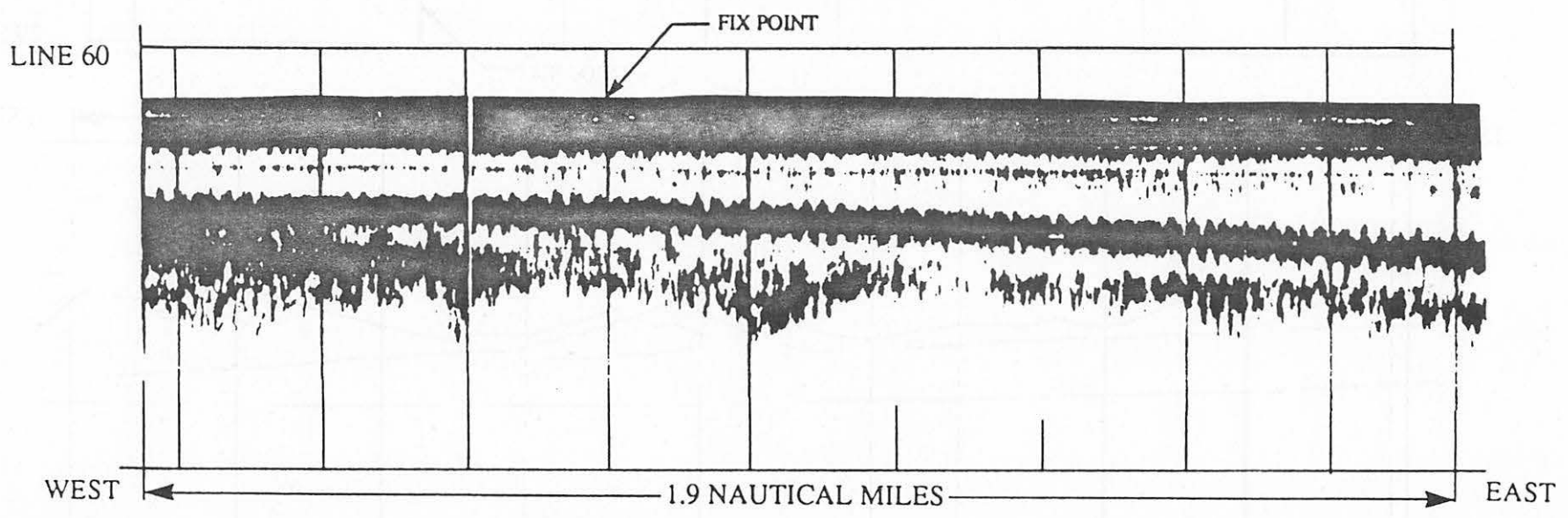
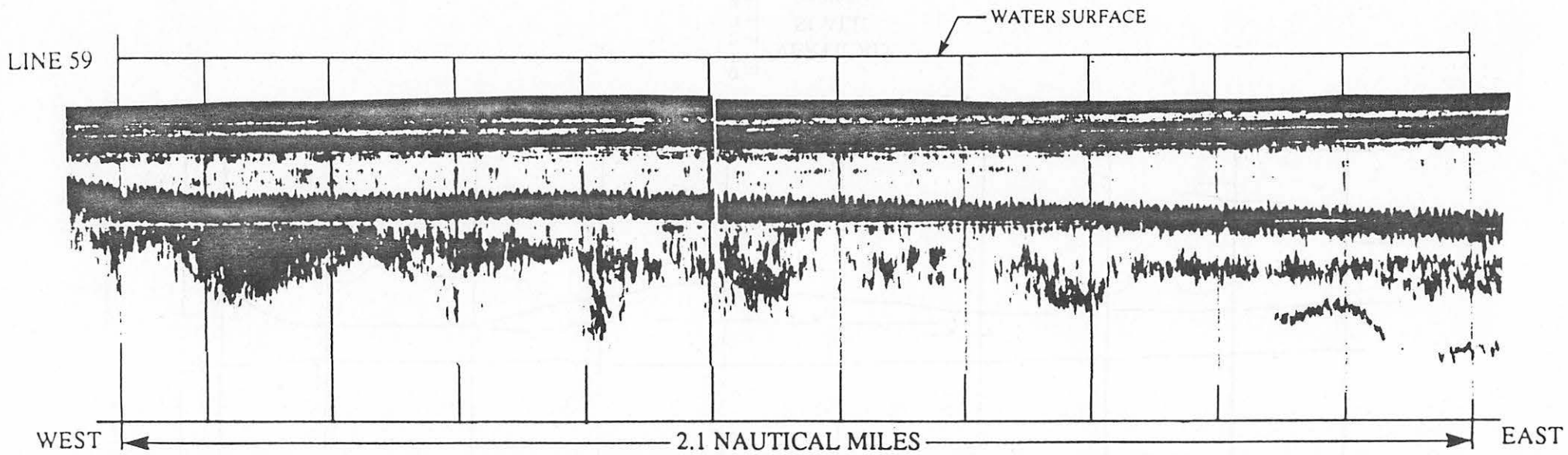




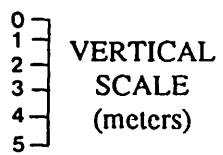
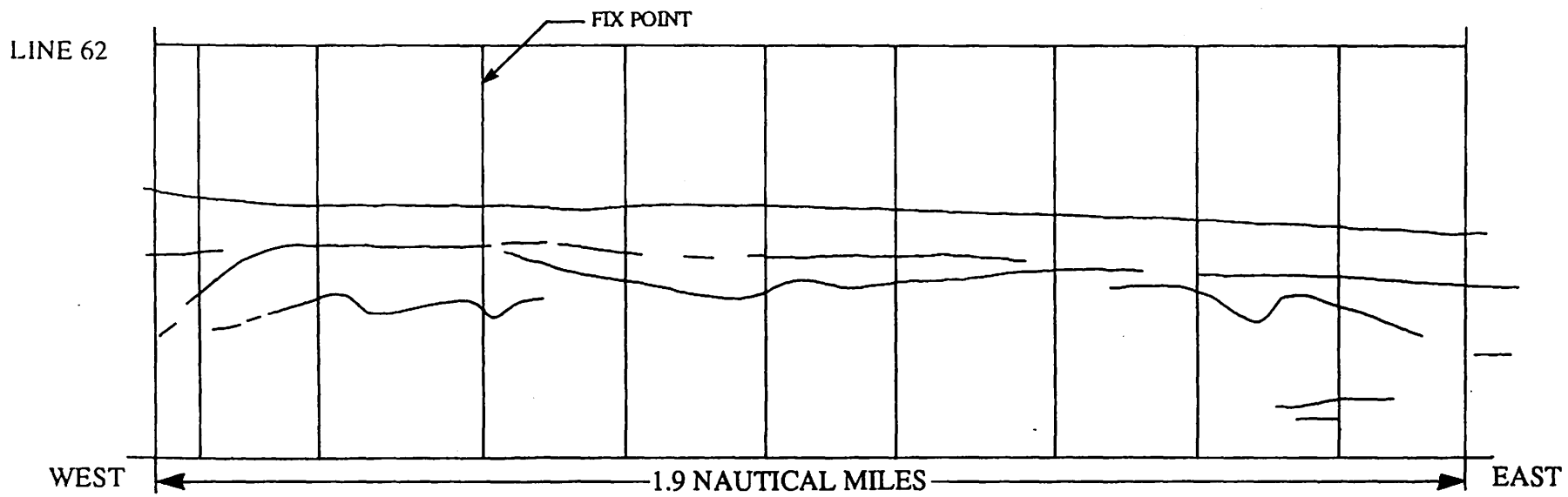
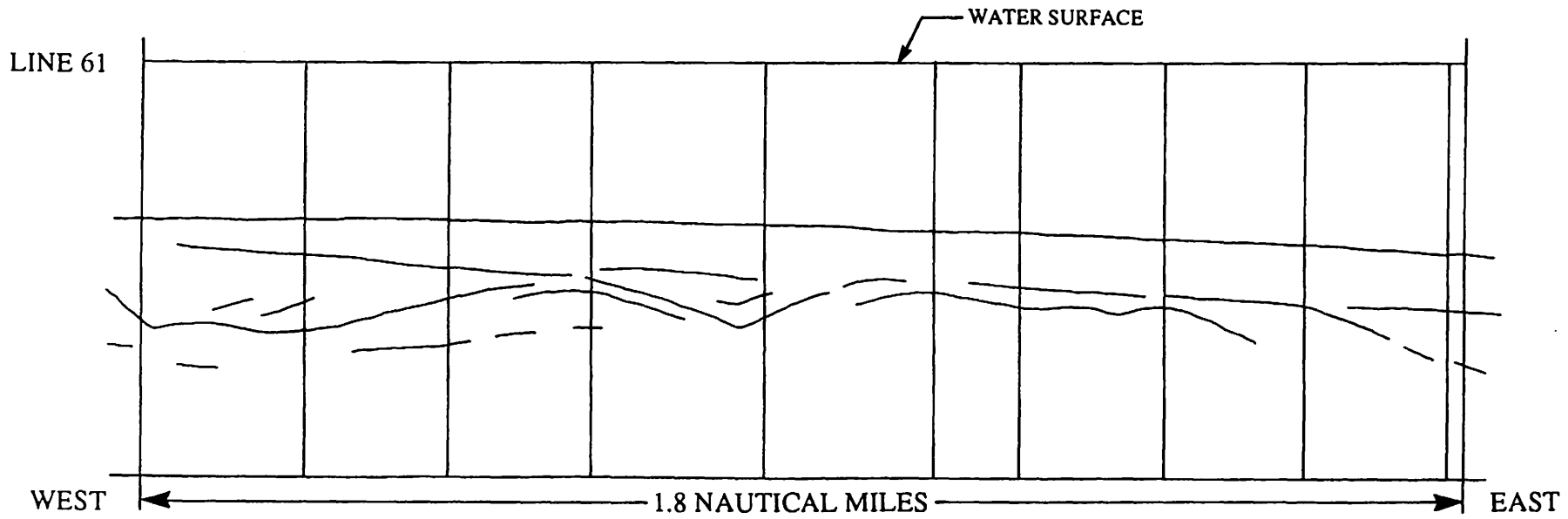
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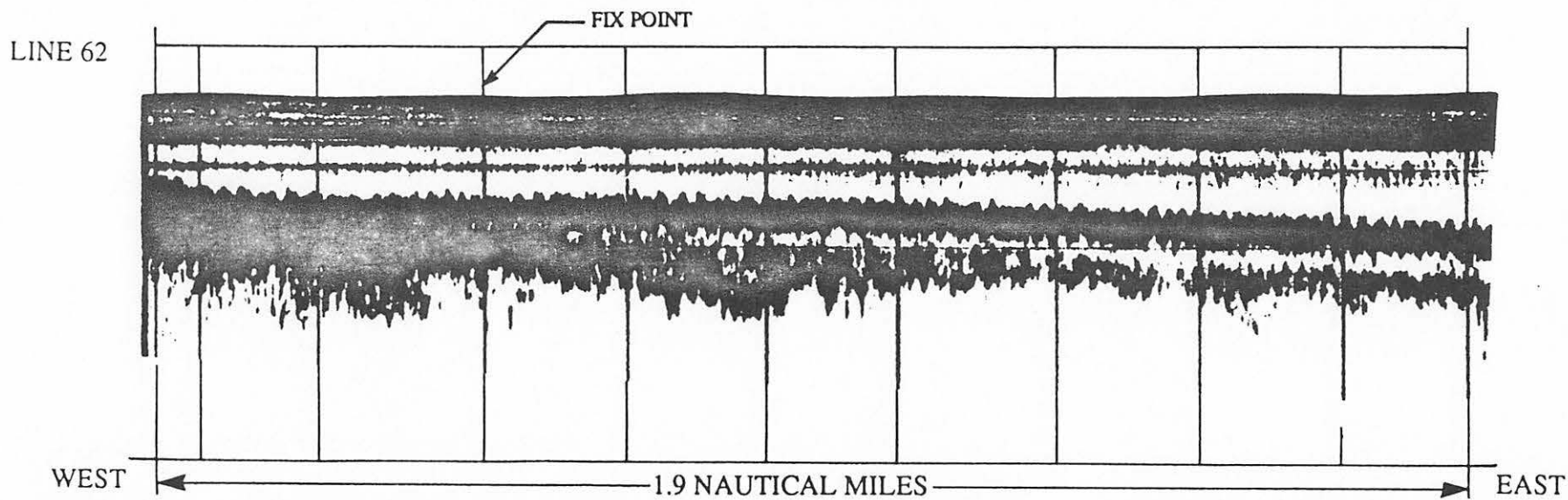
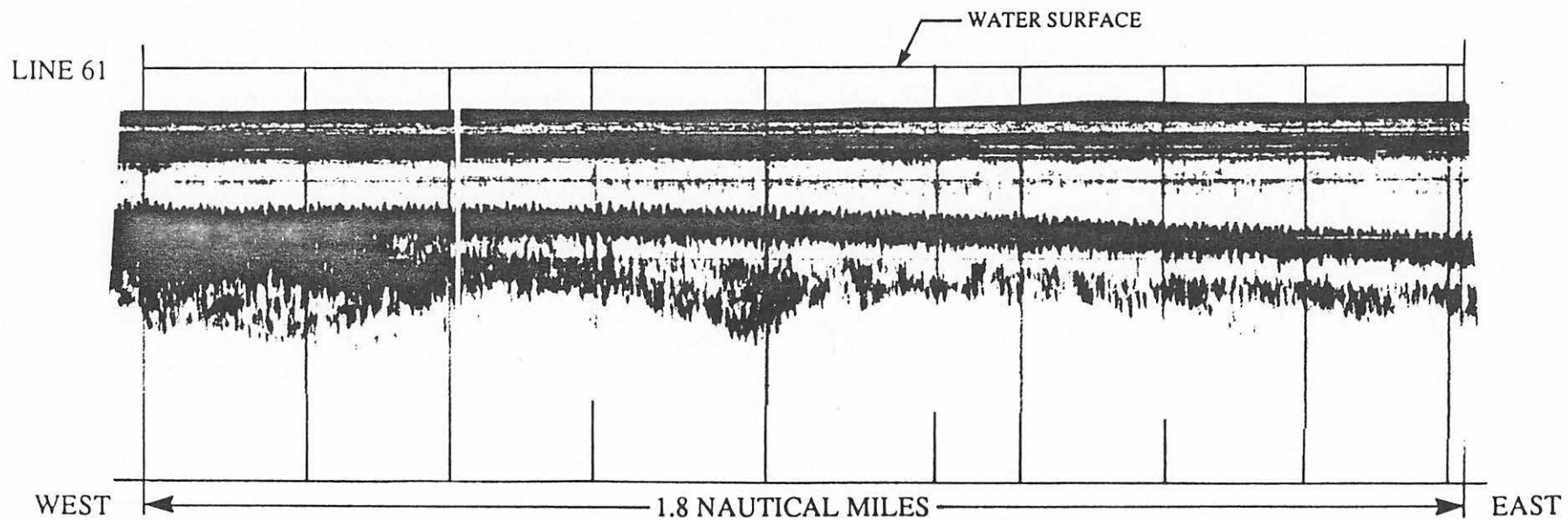
VERTICAL  
SCALE  
(meters)





0 }  
 1 } VERTICAL  
 2 } SCALE  
 3 } (meters)  
 4 }  
 5 }

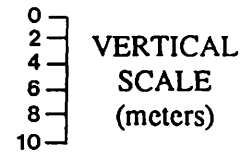
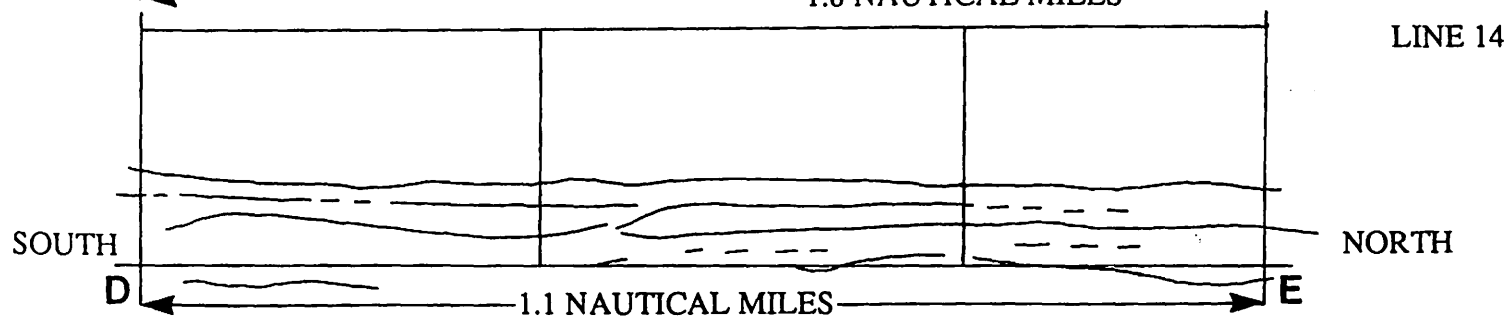
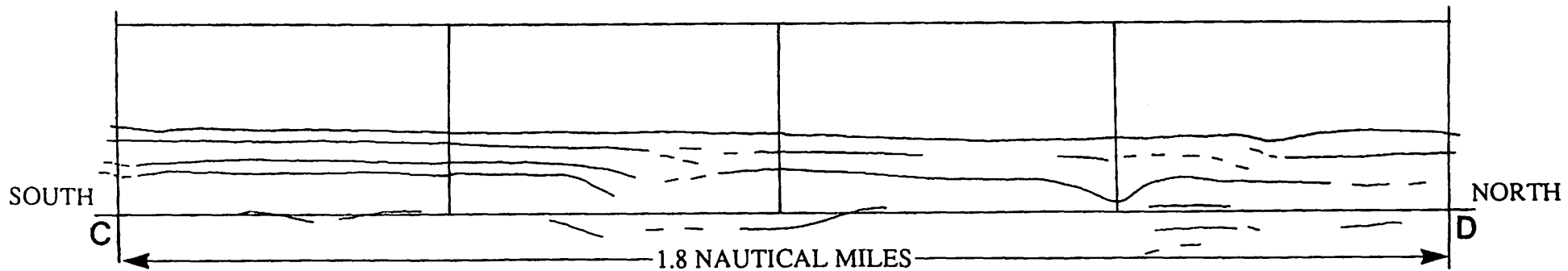
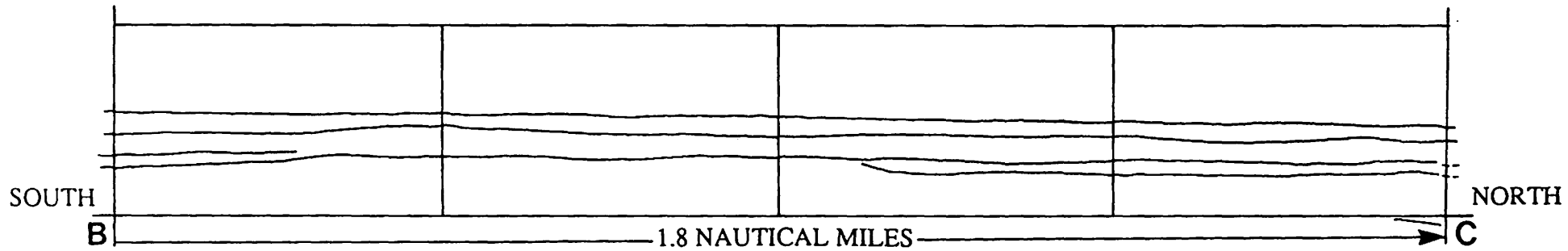
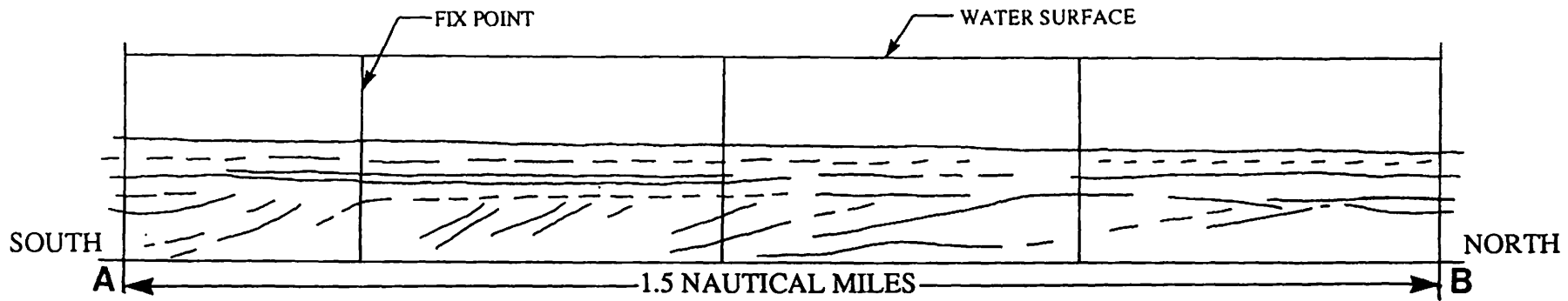


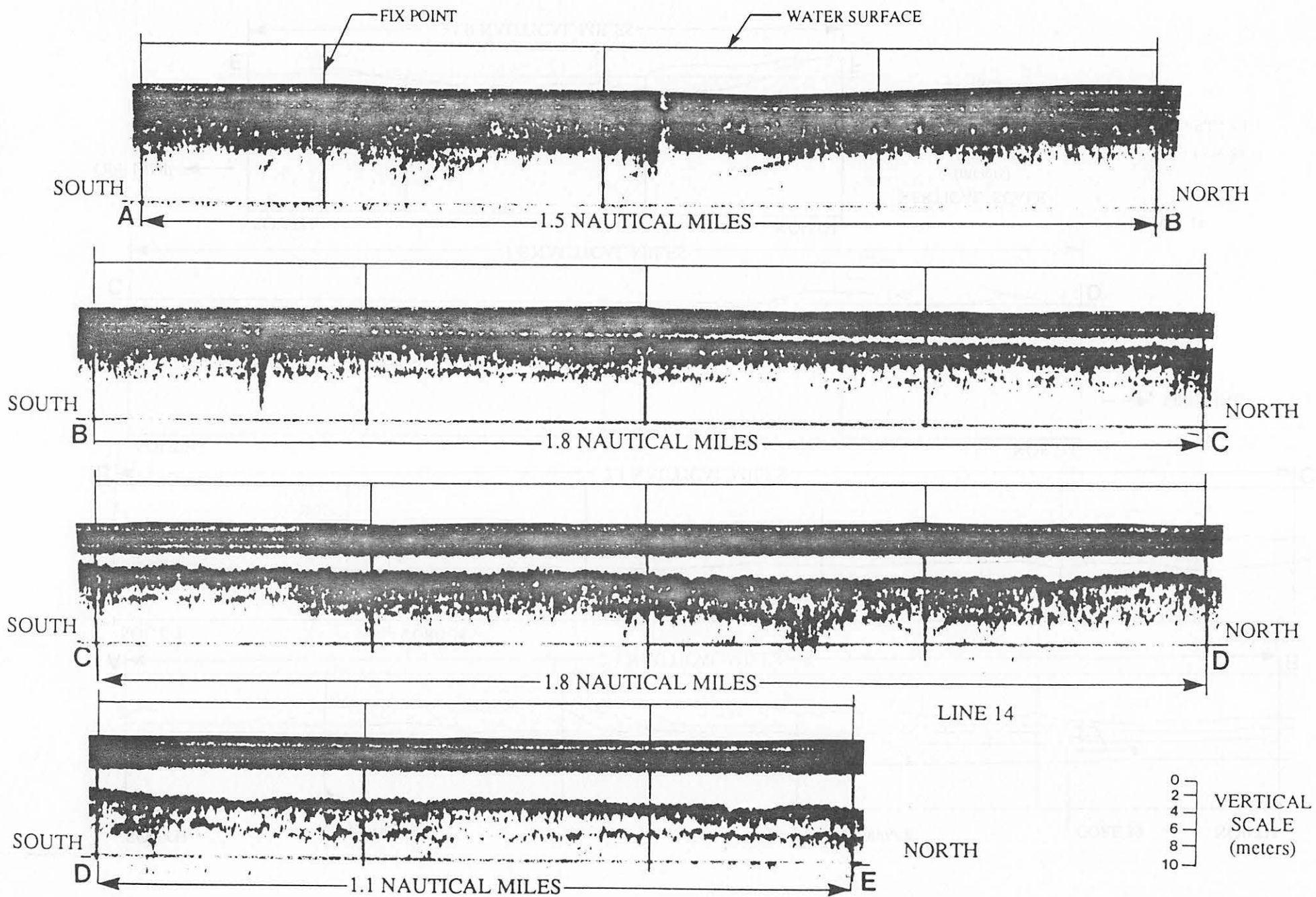


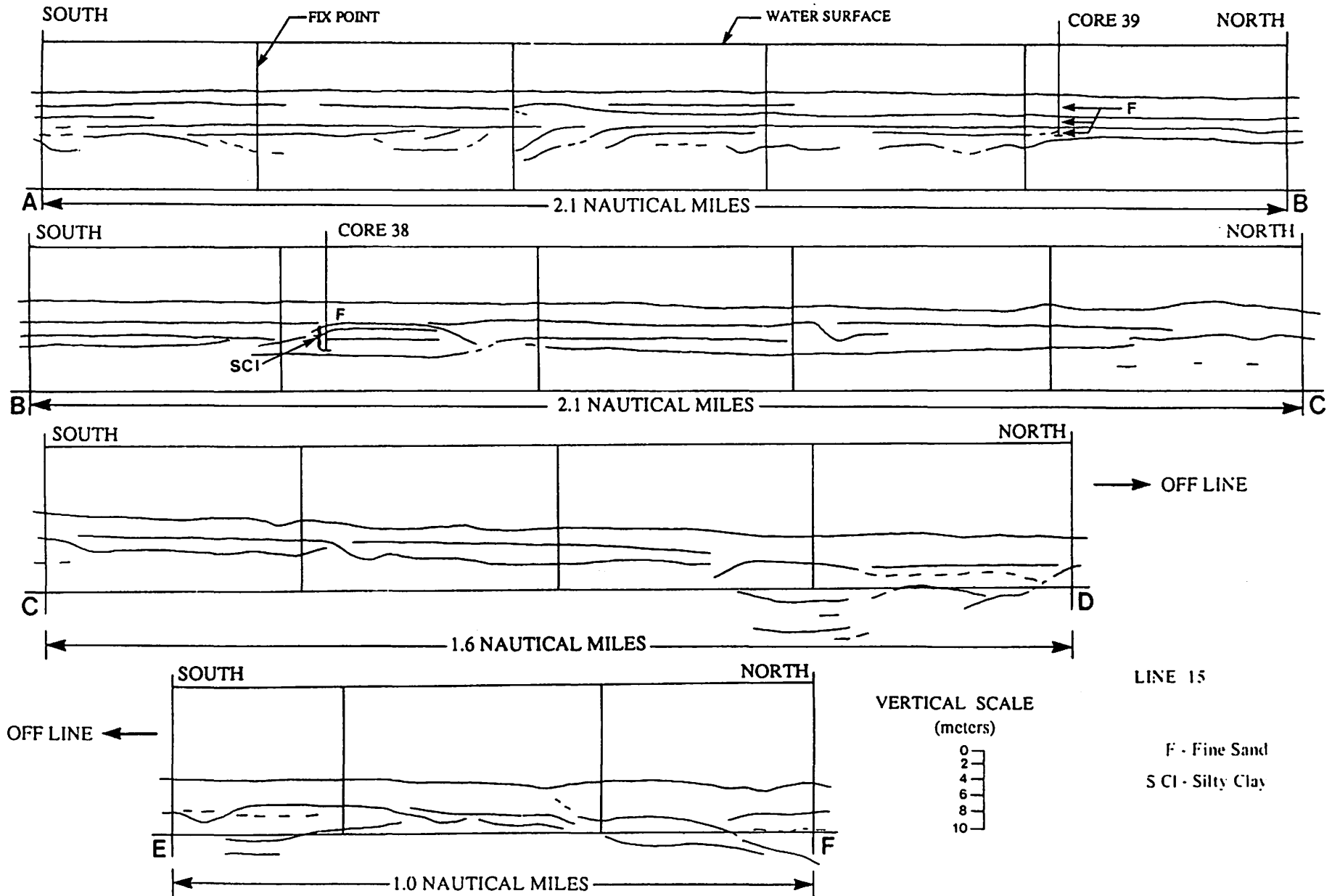
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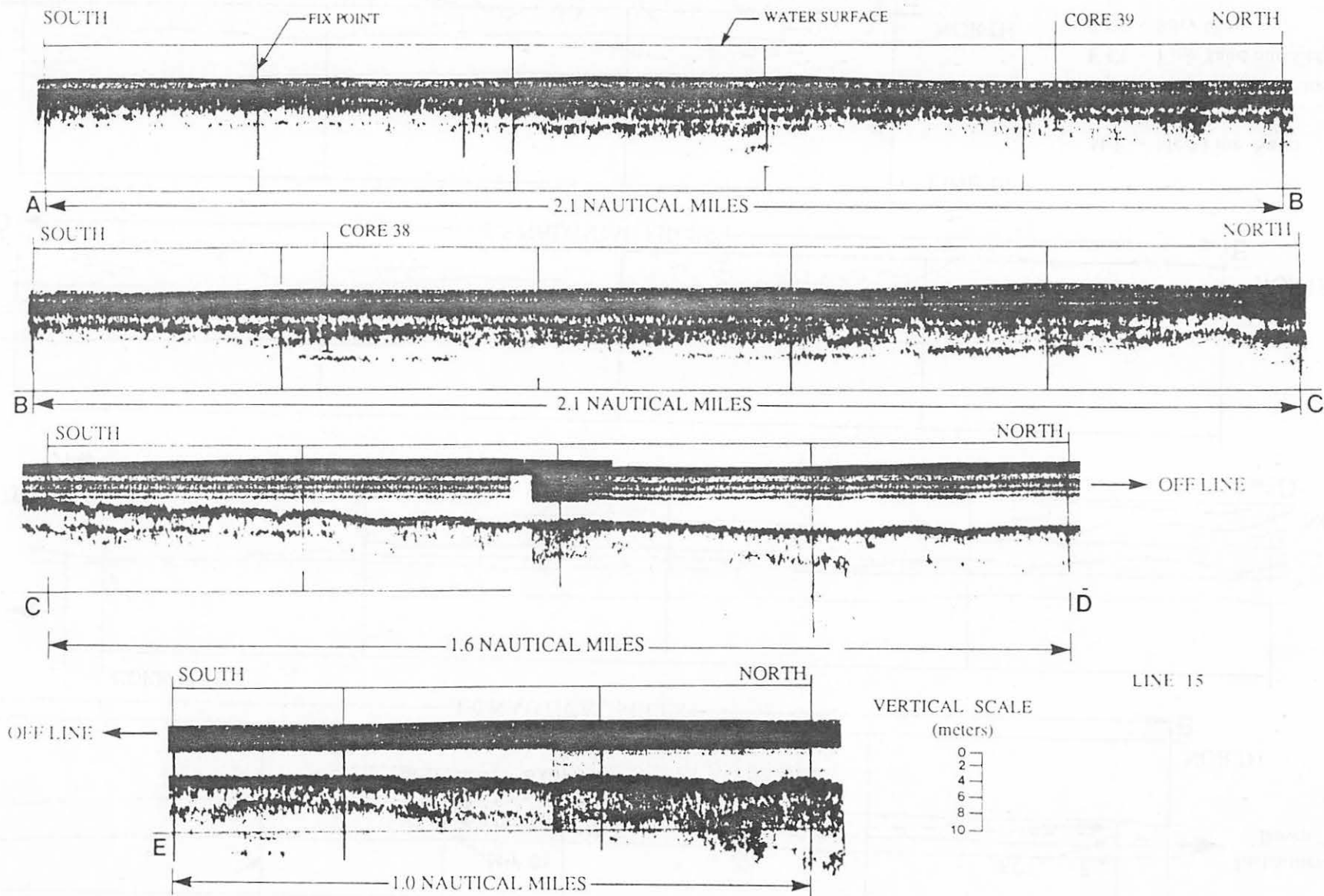
VERTICAL  
SCALE  
(meters)

**Records of North-South Trending Lines**

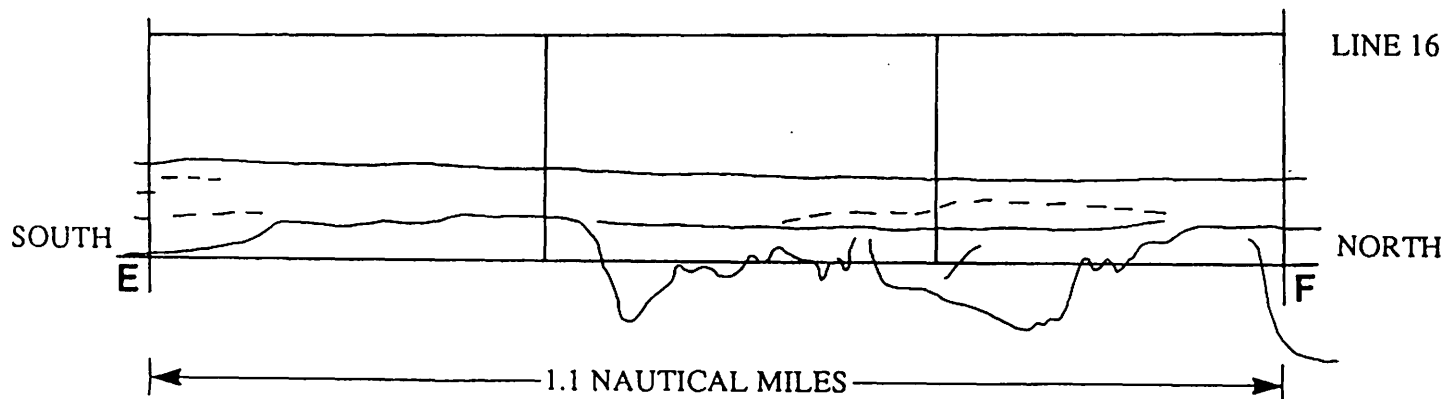
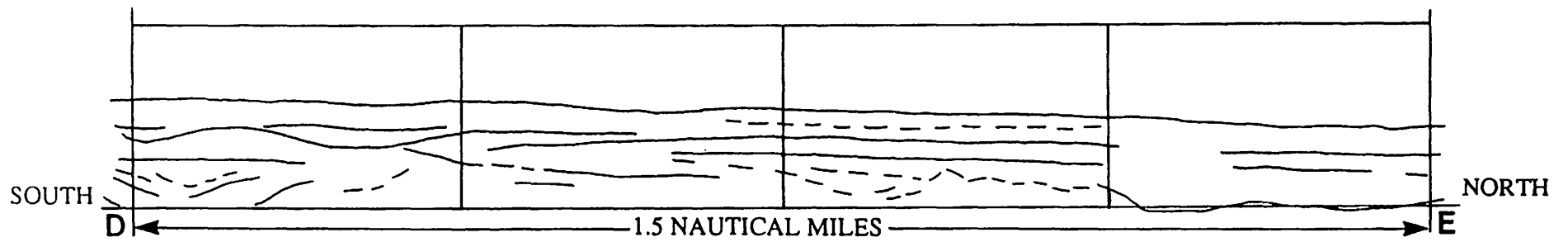
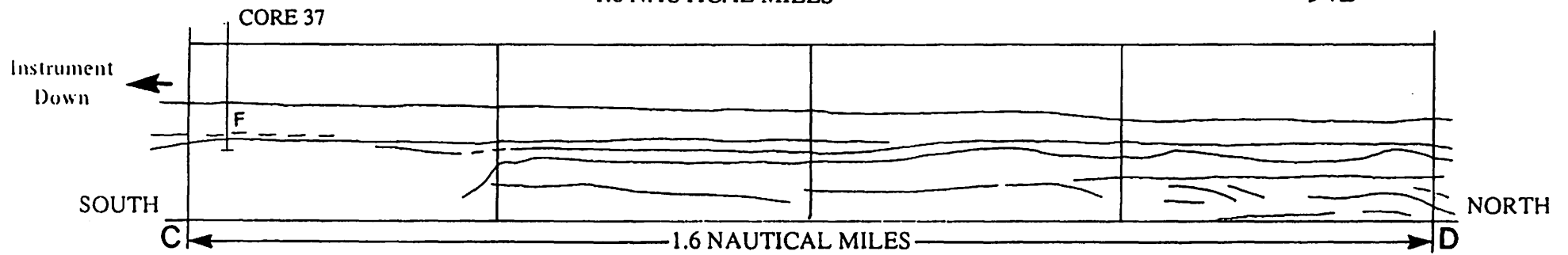
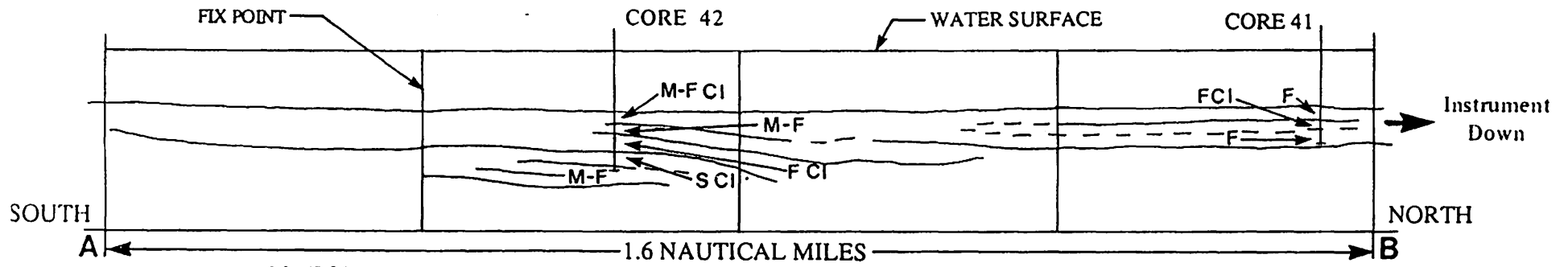




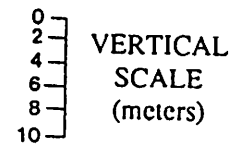


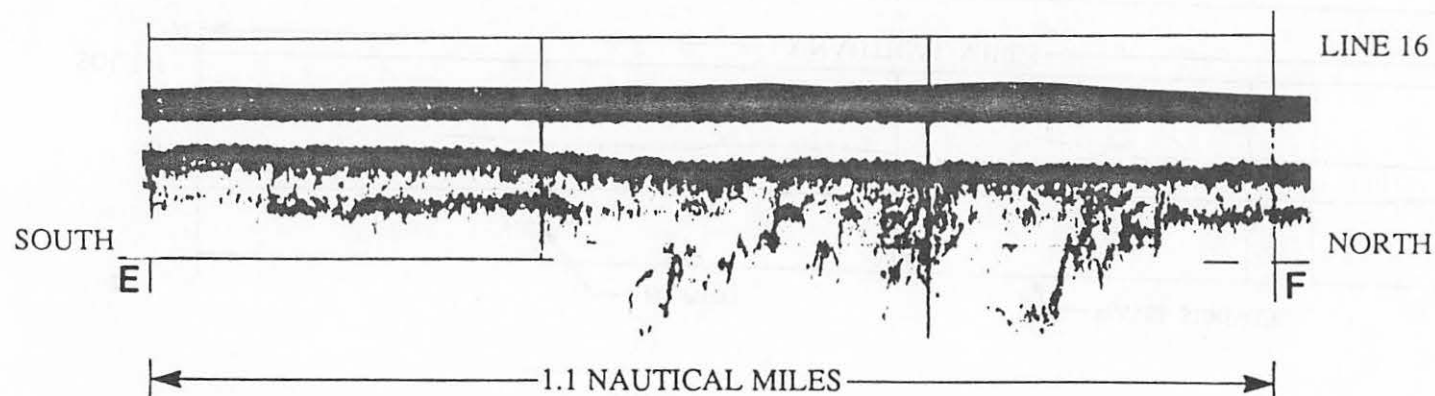
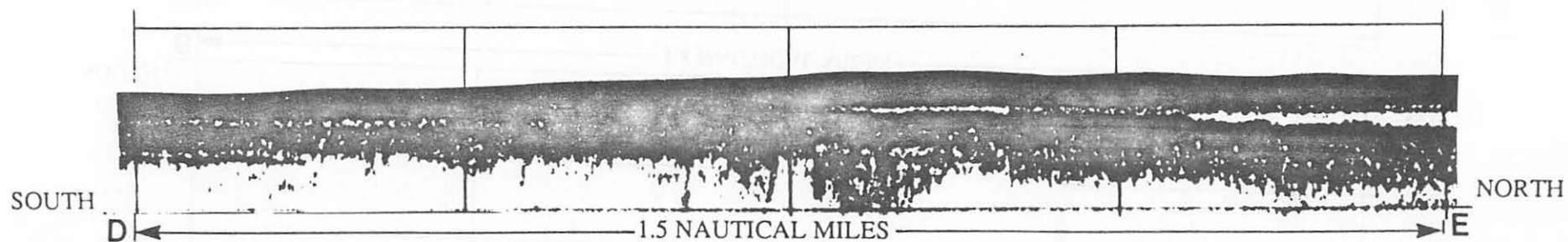
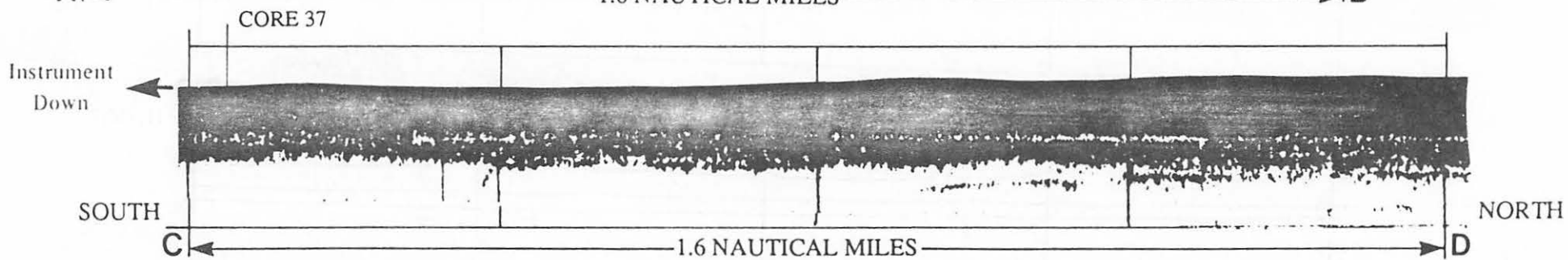
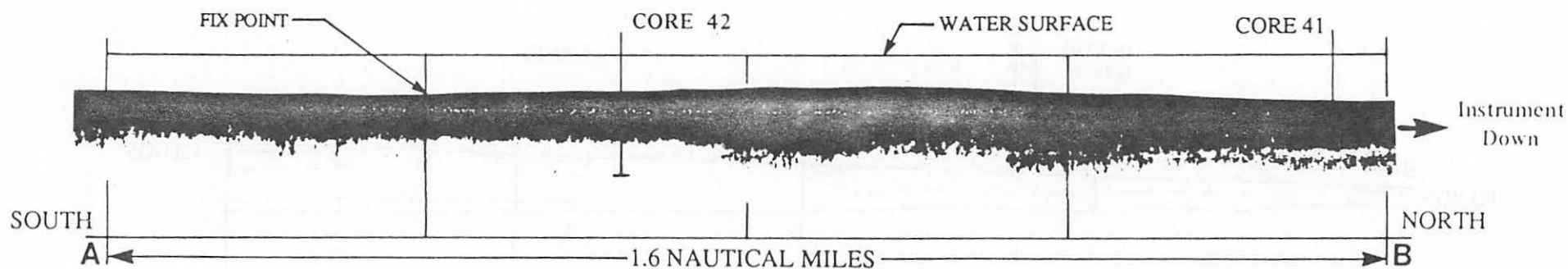




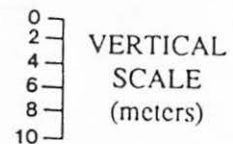


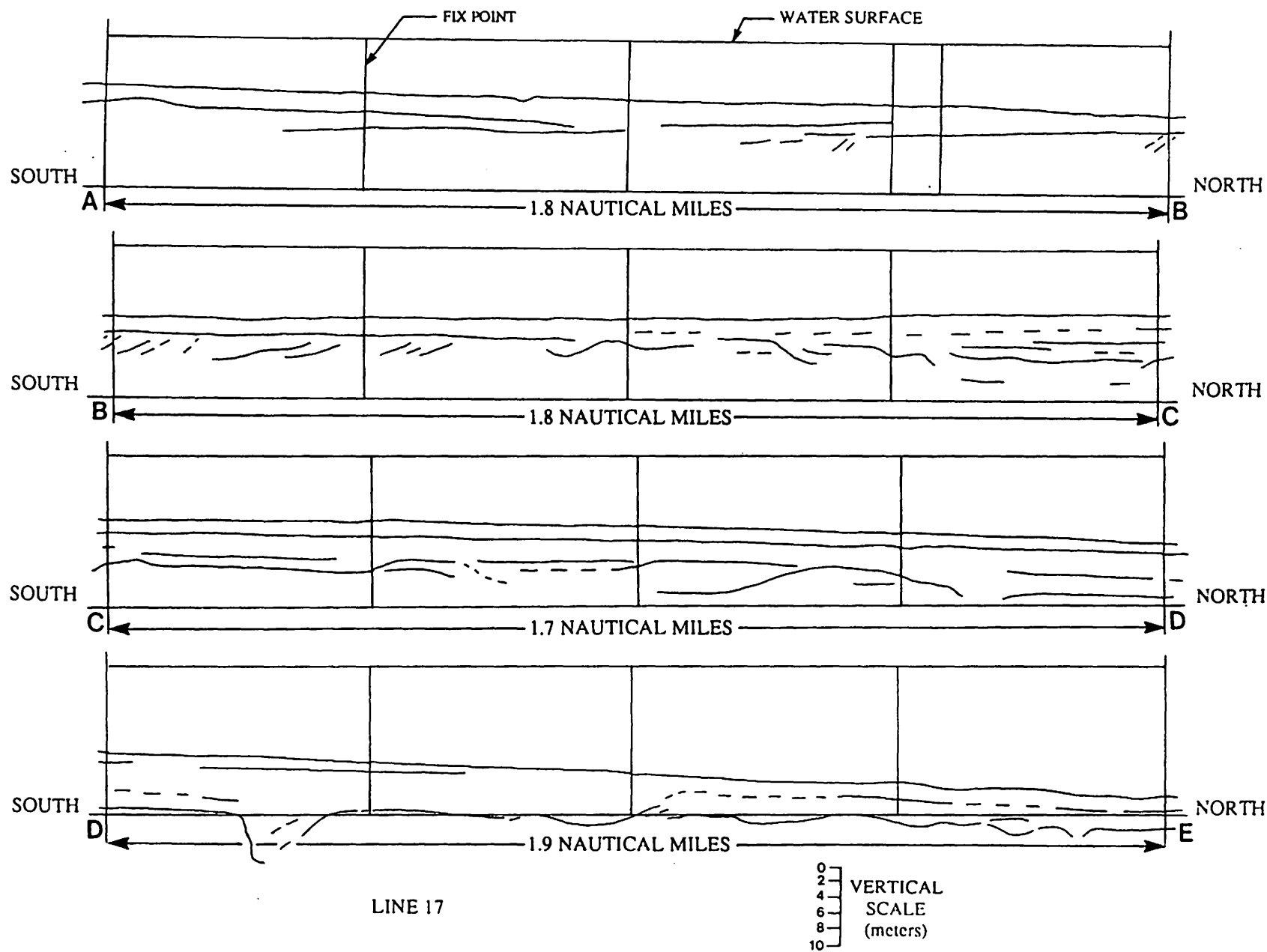
- M-F - Med-Fine Sand
- F - Fine Sand
- M-F Cl - Med-Fine Sand and Clay
- F Cl - Fine Sand and Clay
- S Cl - Silty Clay

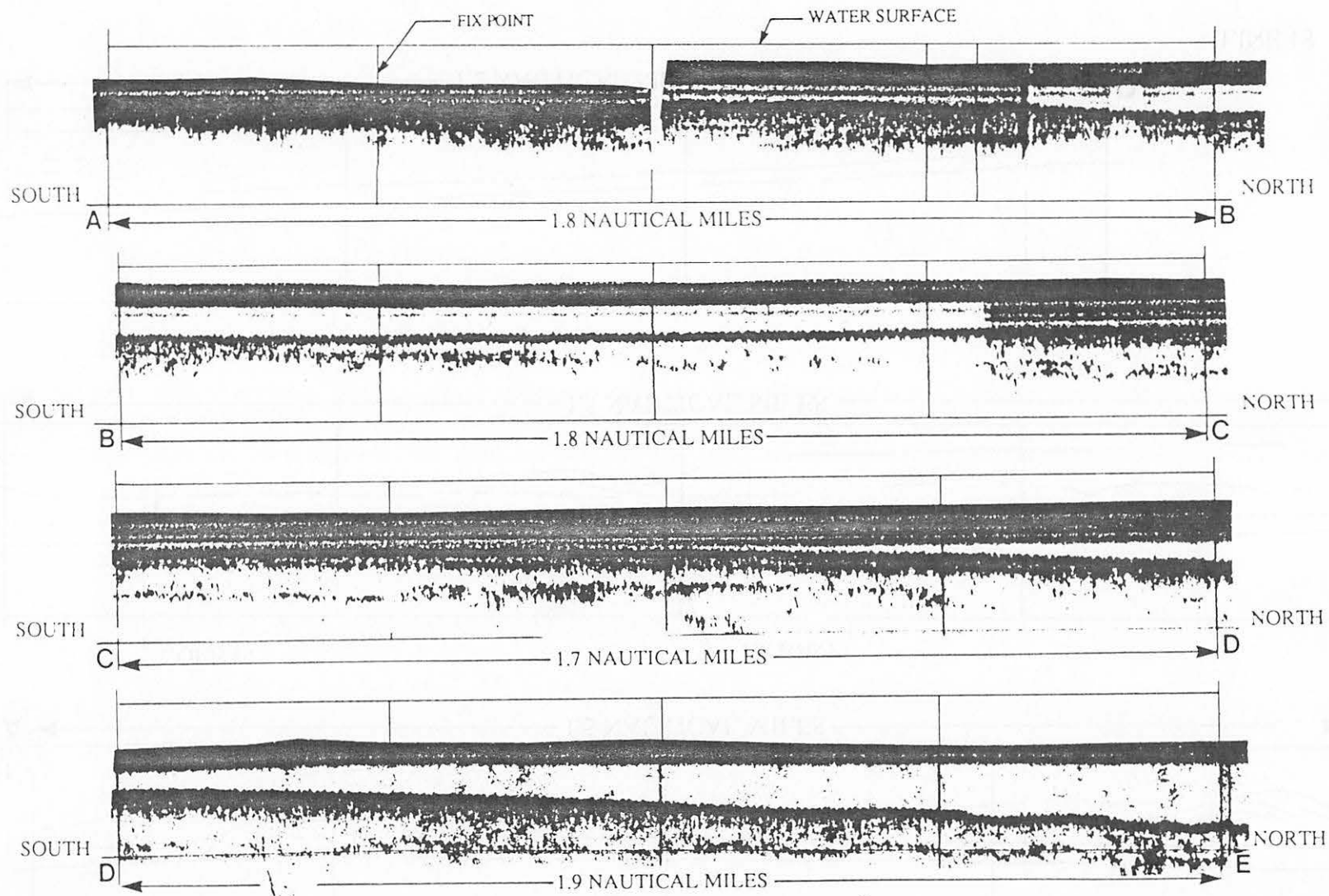




- M-F - Med-Fine Sand
- F - Fine Sand
- M-F Cl - Med-Fine Sand and Clay
- F Cl - Fine Sand and Clay
- S Cl - Silty Clay



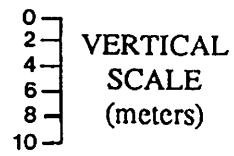
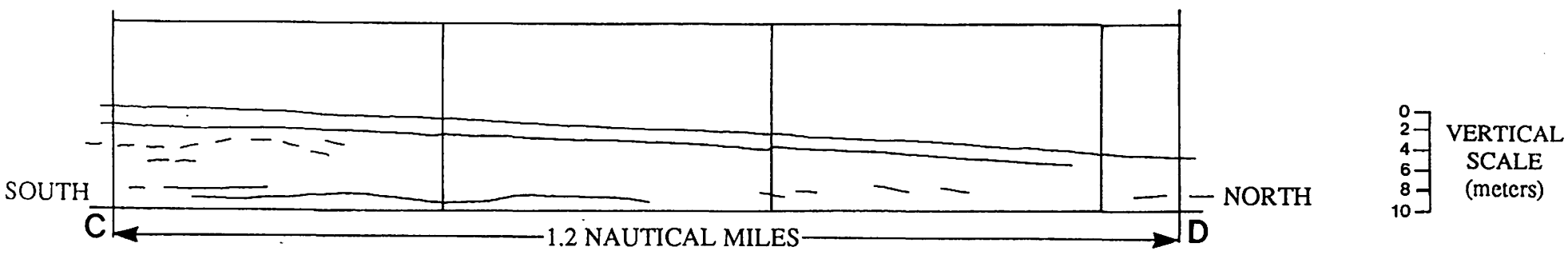
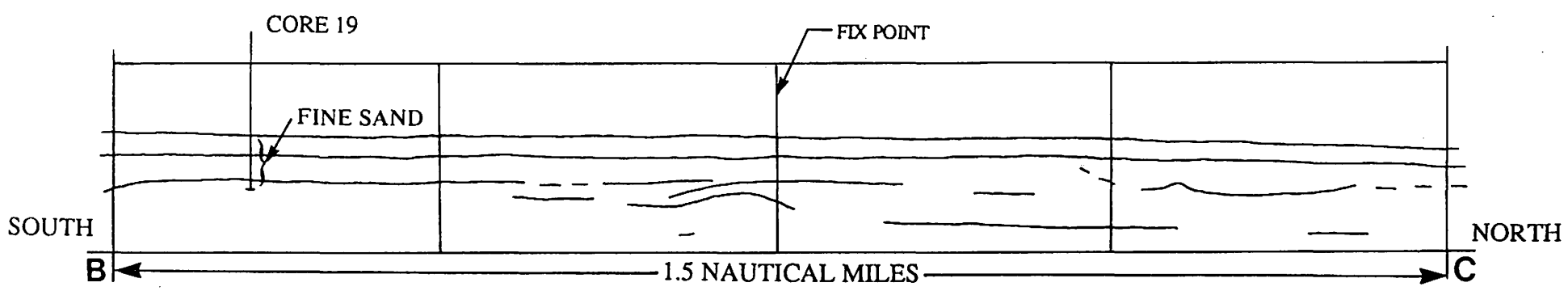
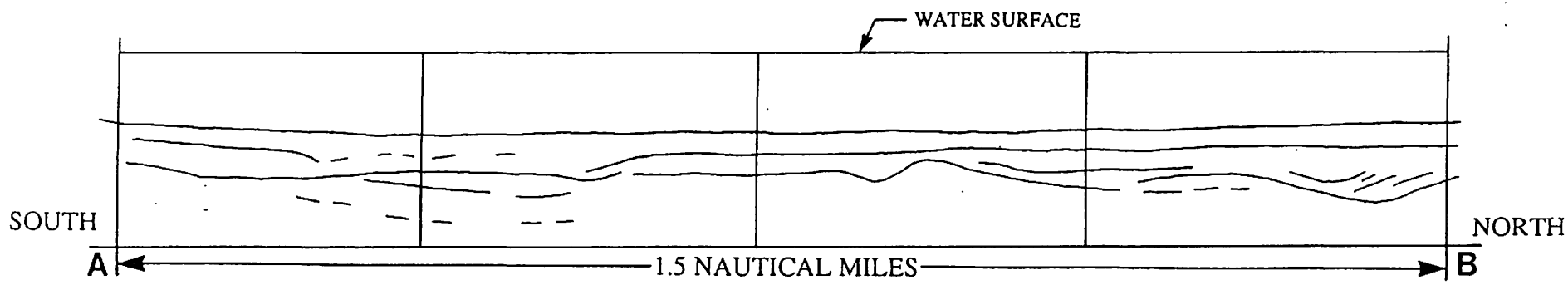




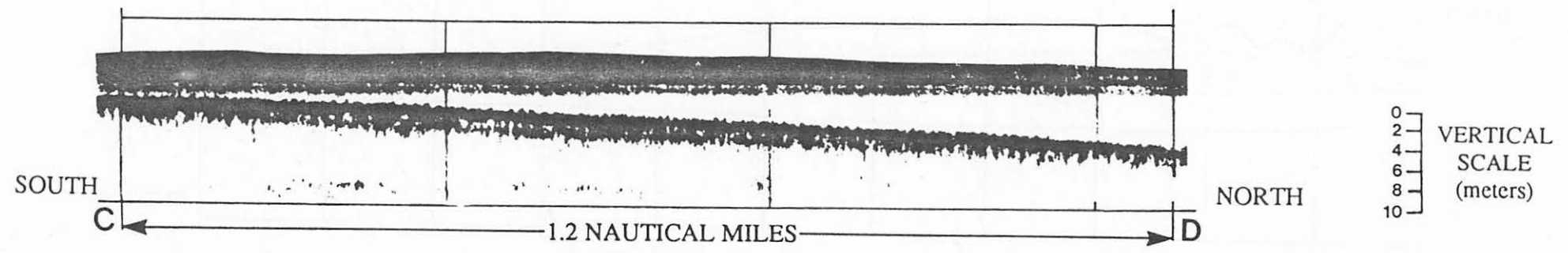
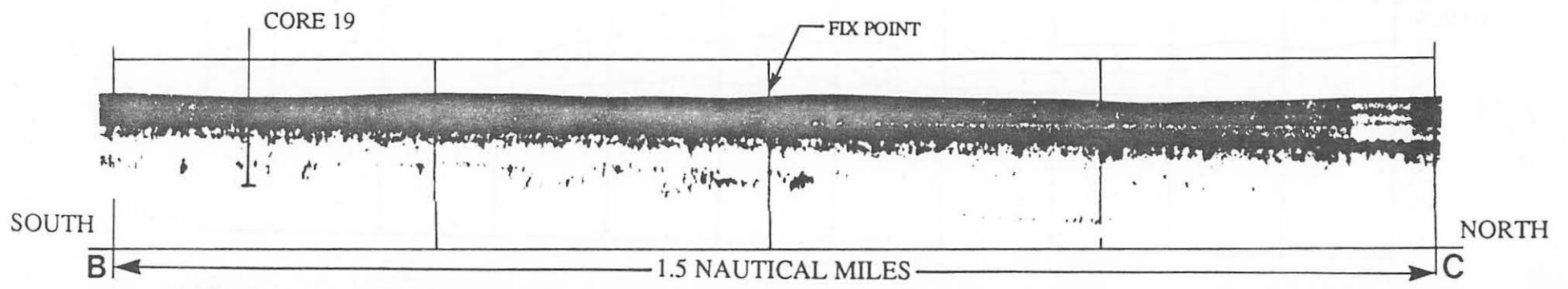
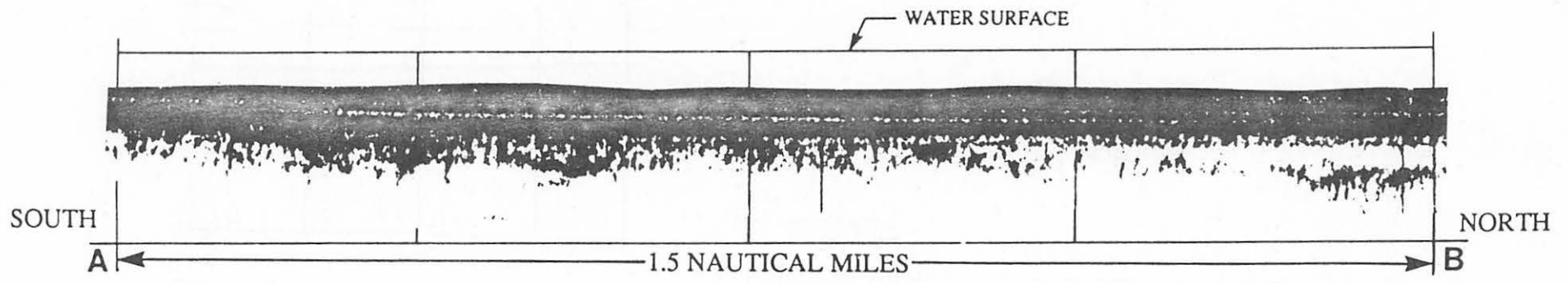
LINE 17

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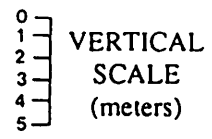
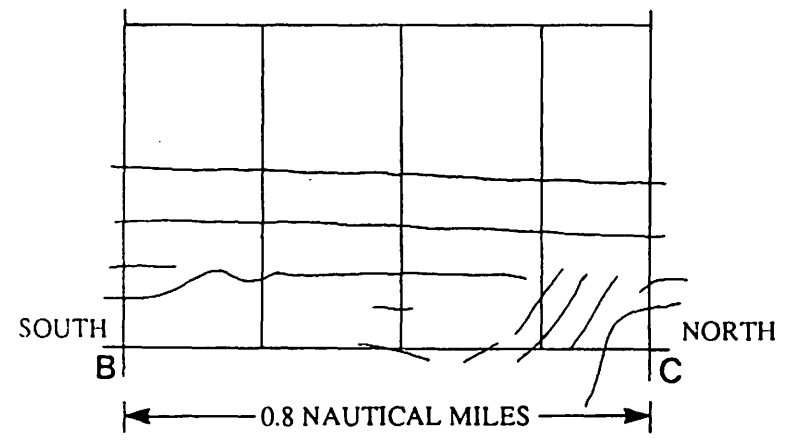
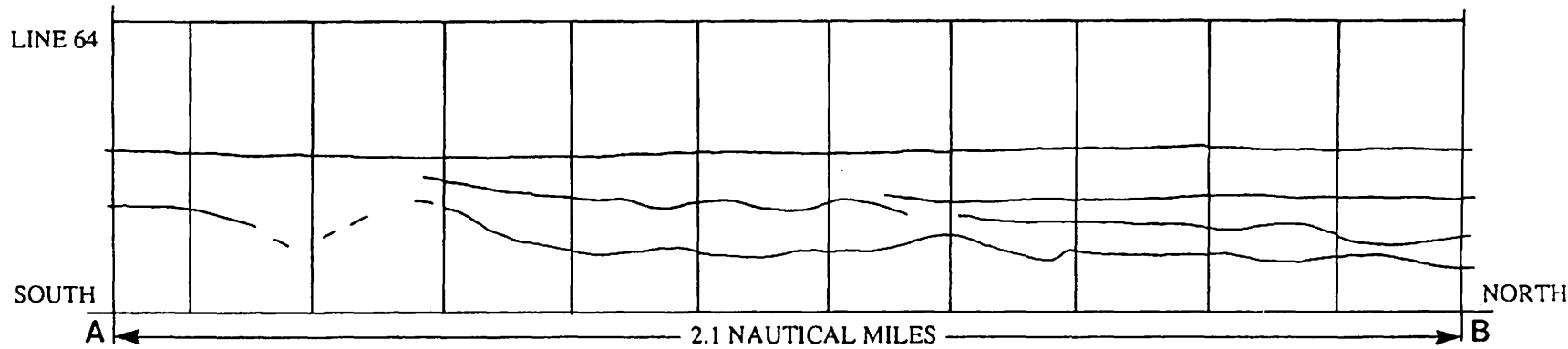
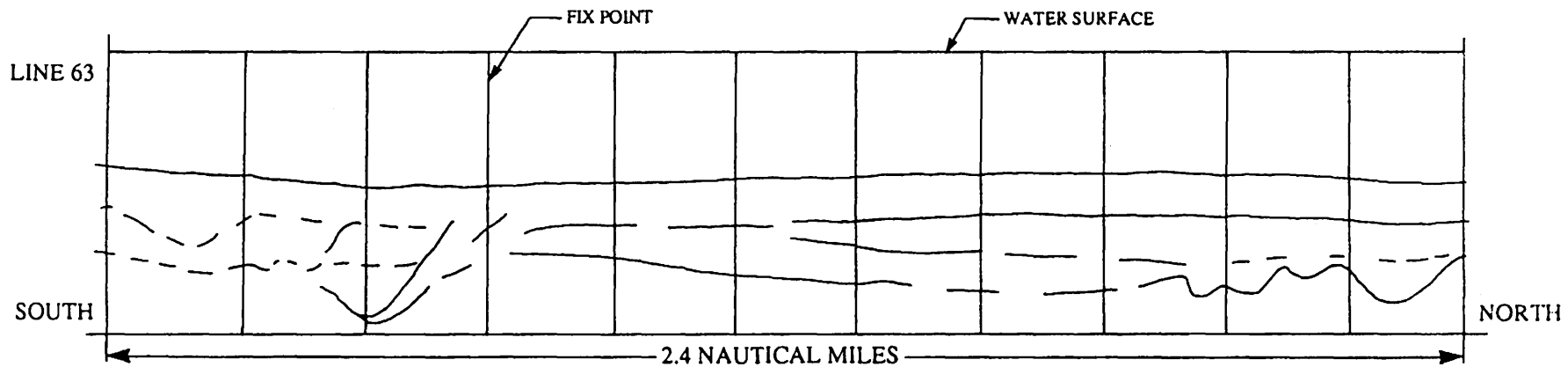
VERTICAL  
SCALE  
(meters)

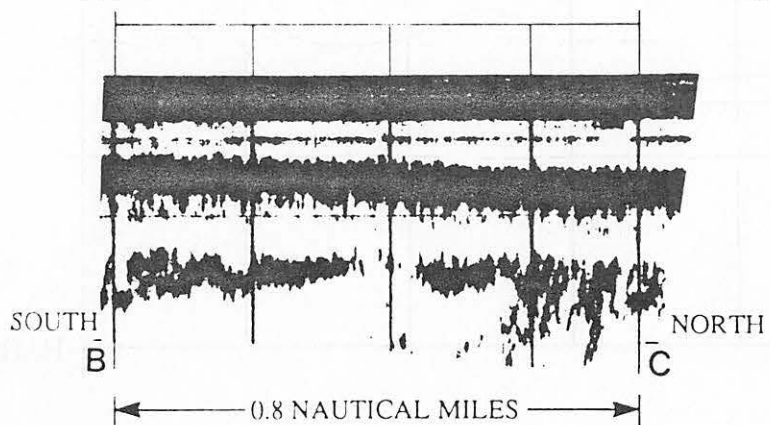
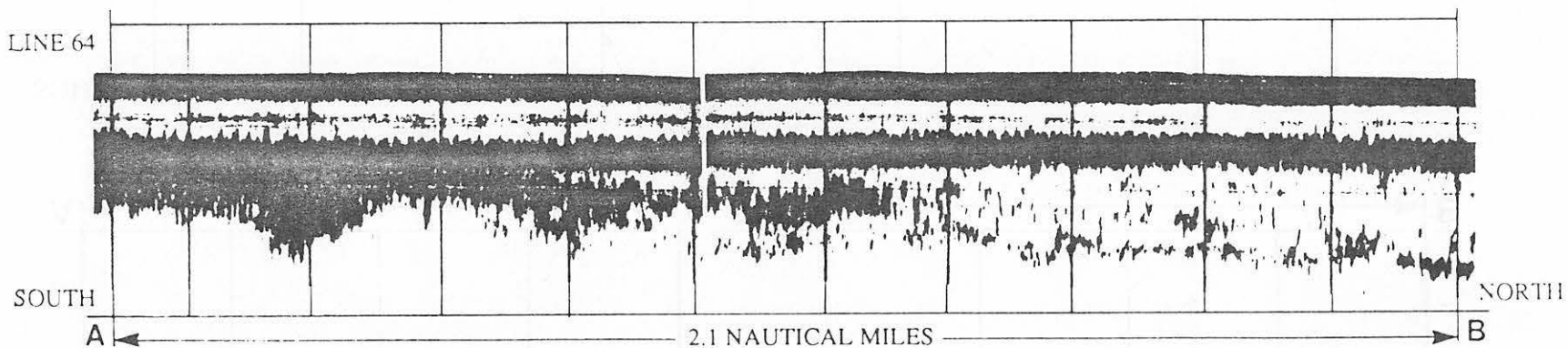
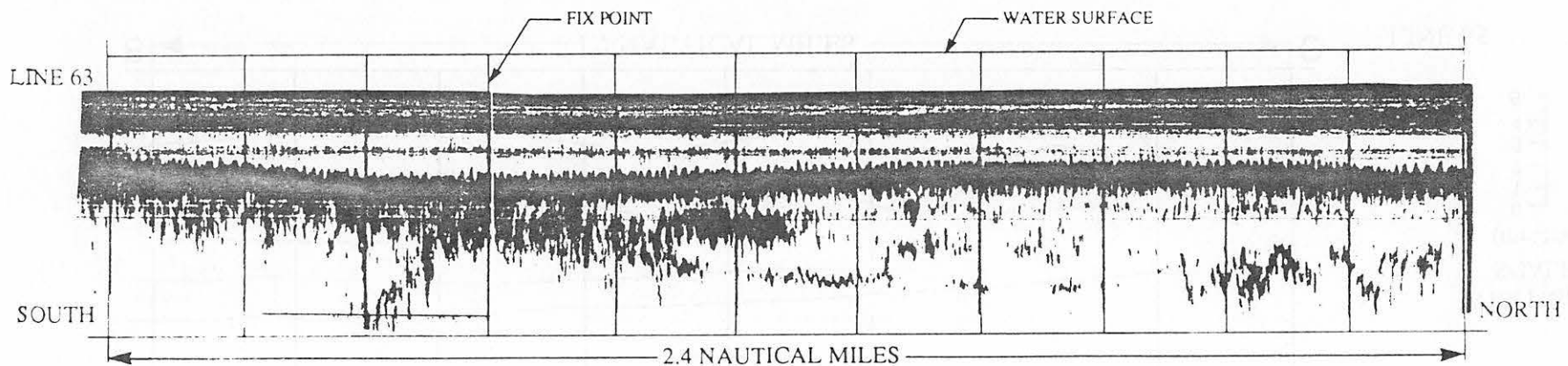


LINE 18



LINE 18



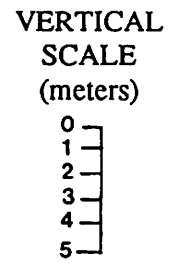
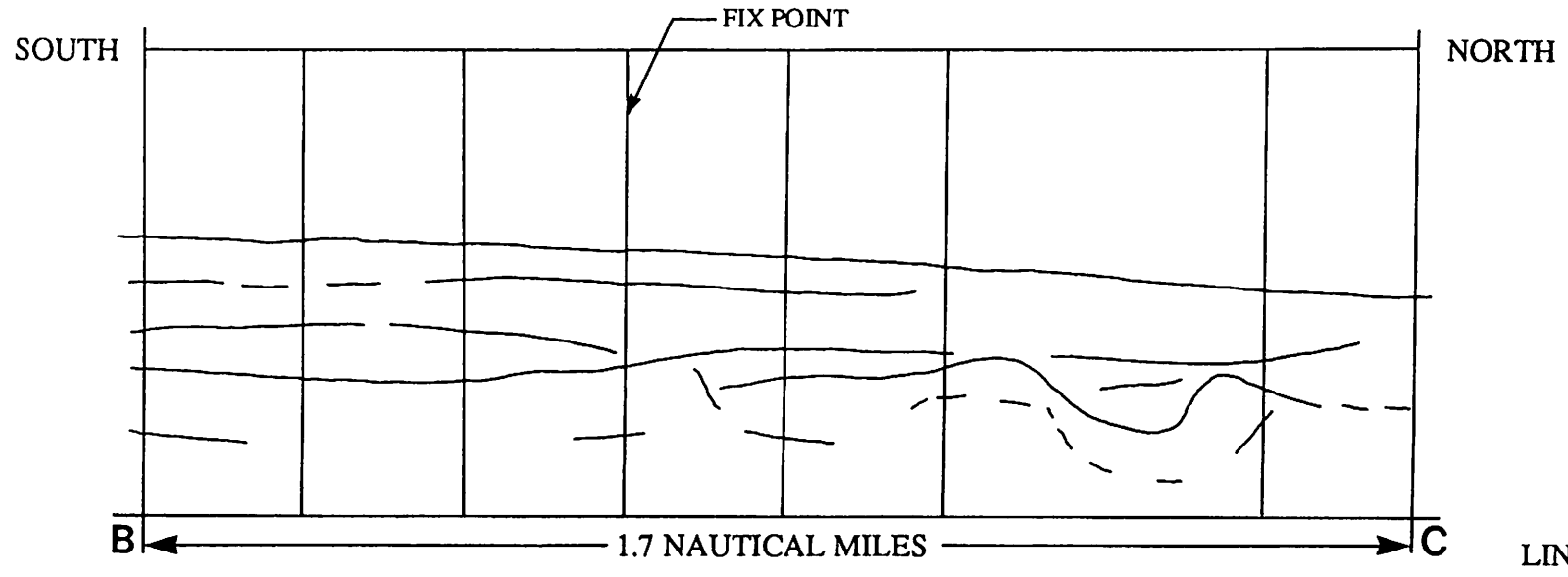
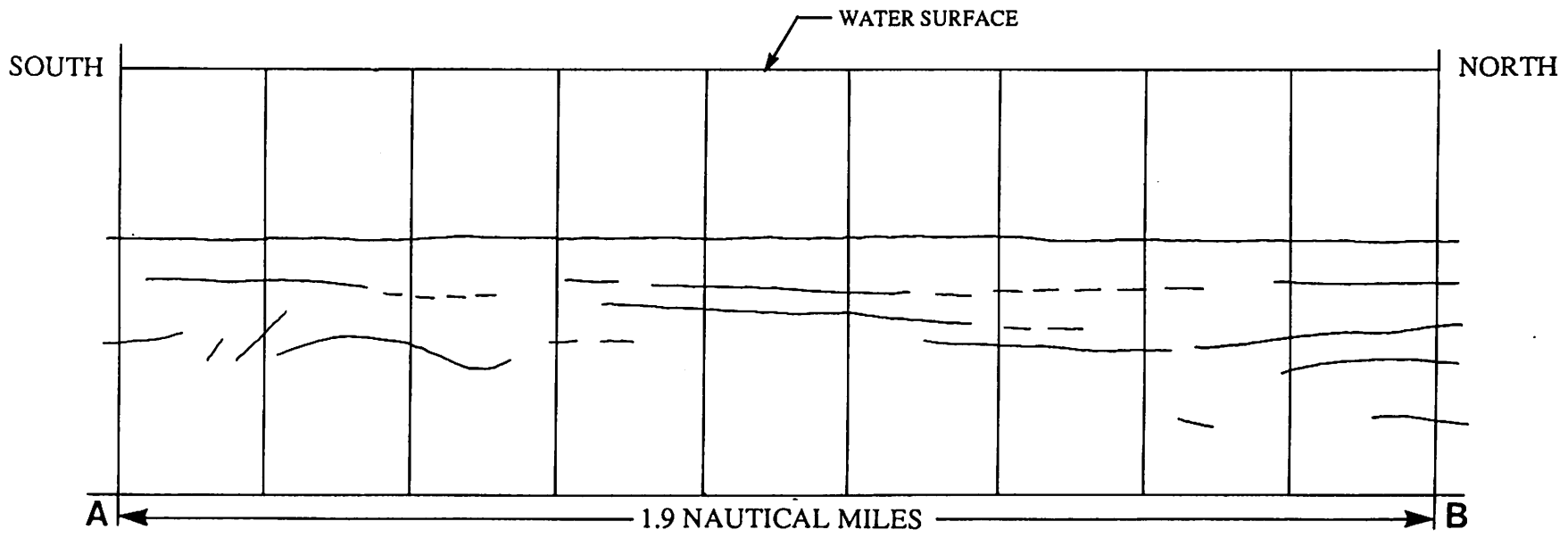


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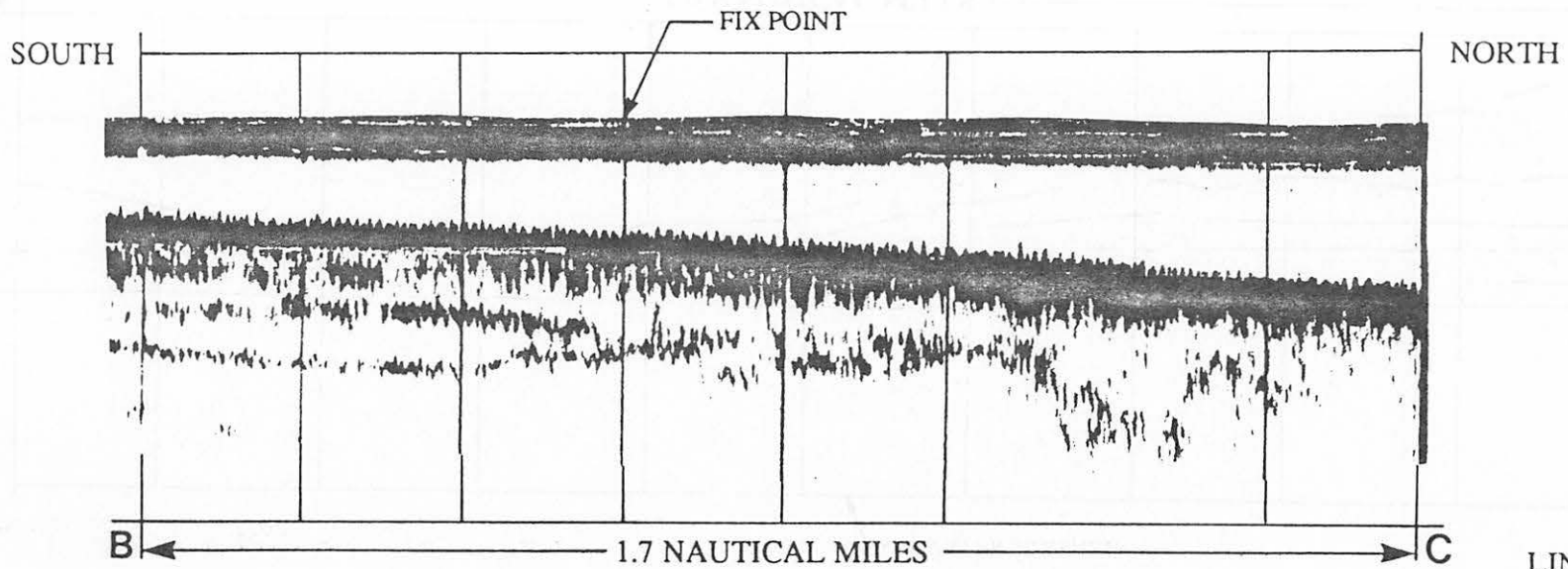
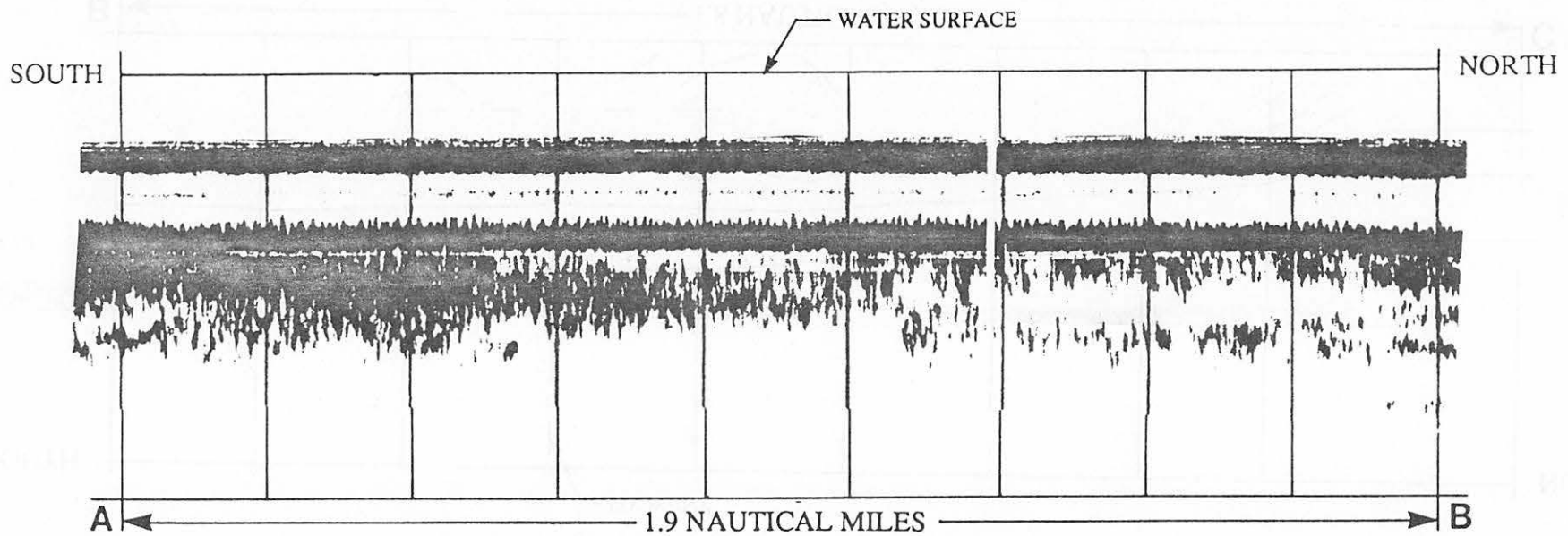
VERTICAL  
SCALE  
(meters)

A vertical scale bar with markings from 0 to 5 meters. The markings are on the left side of the bar.

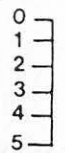




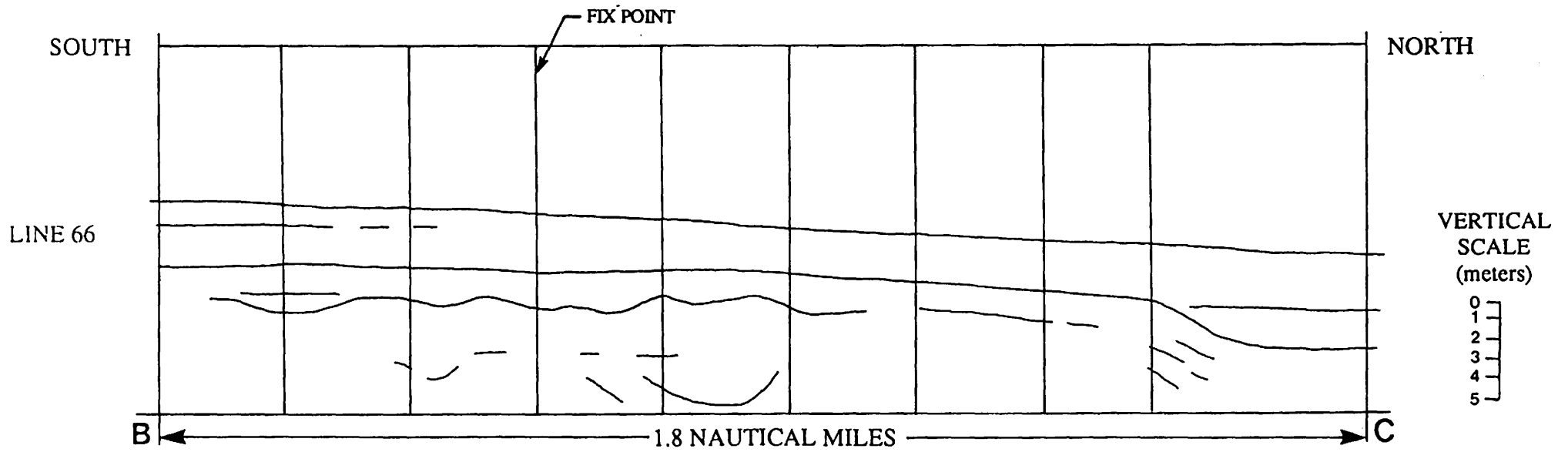
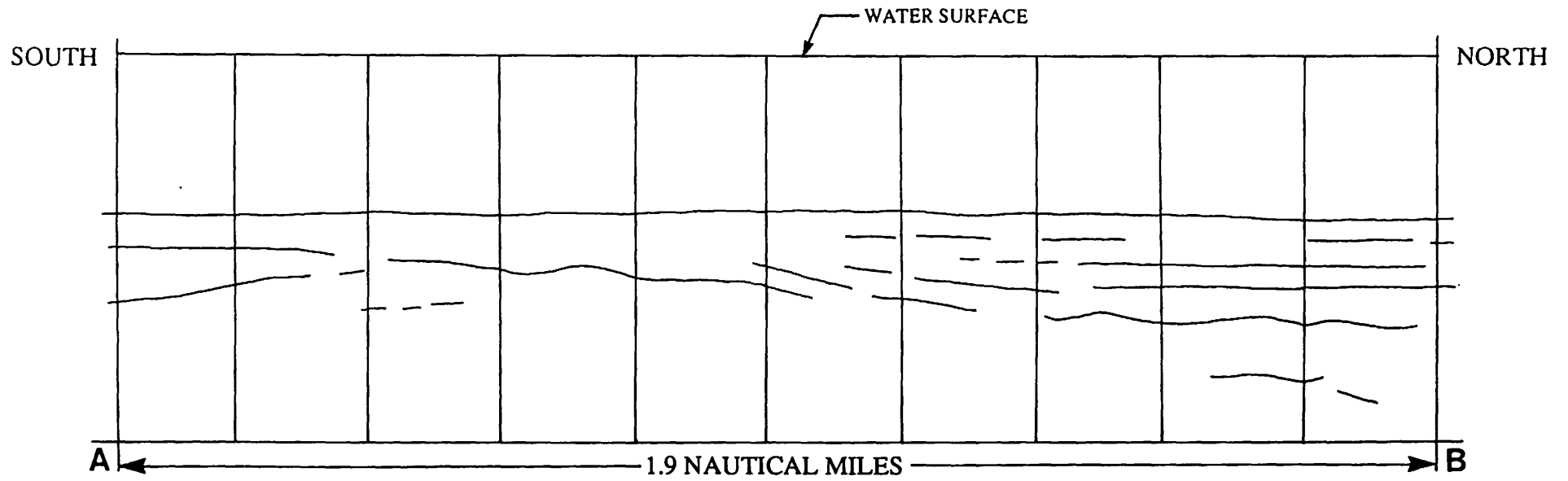
LINE 65

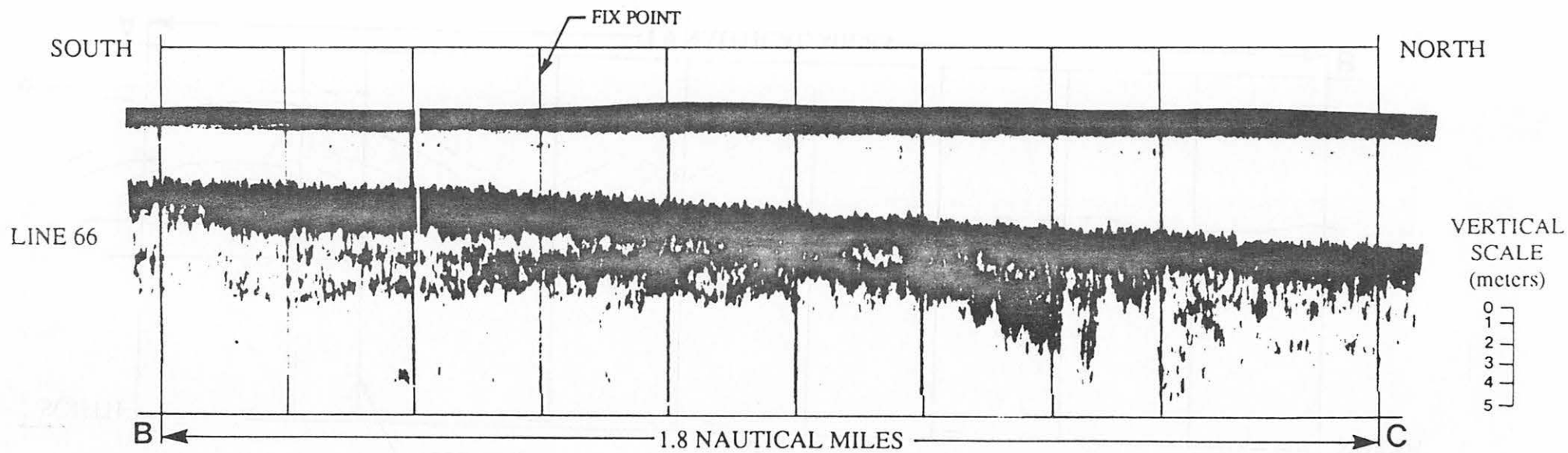
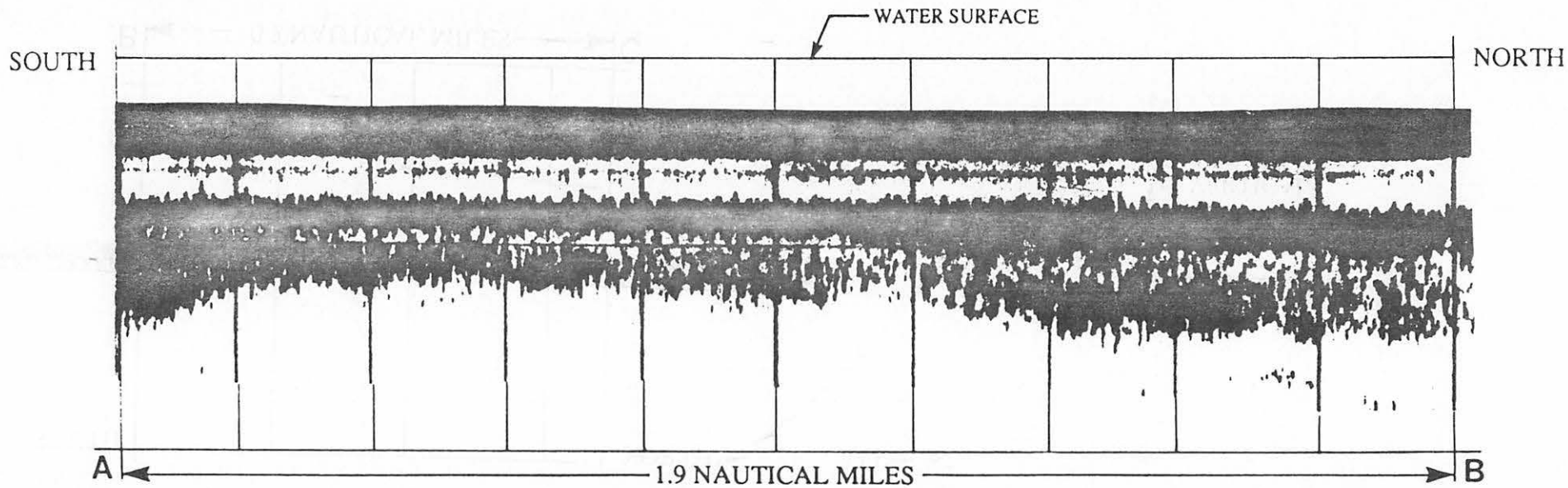


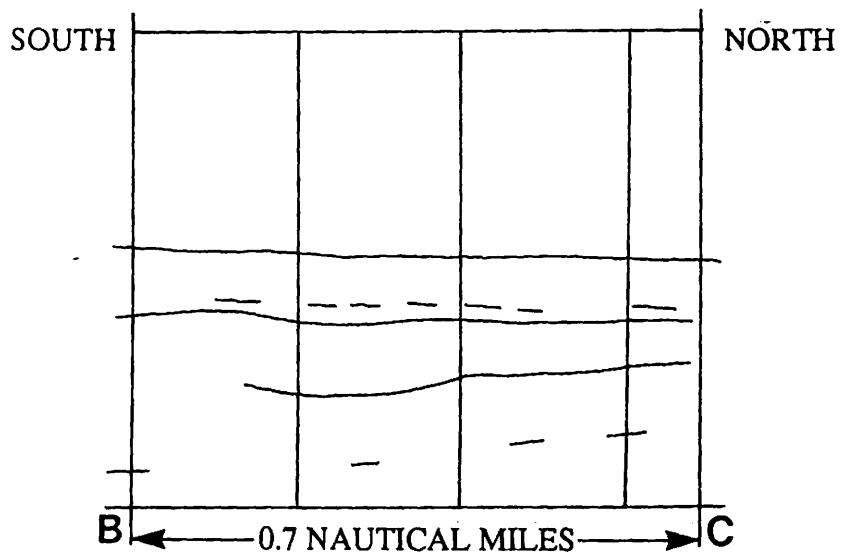
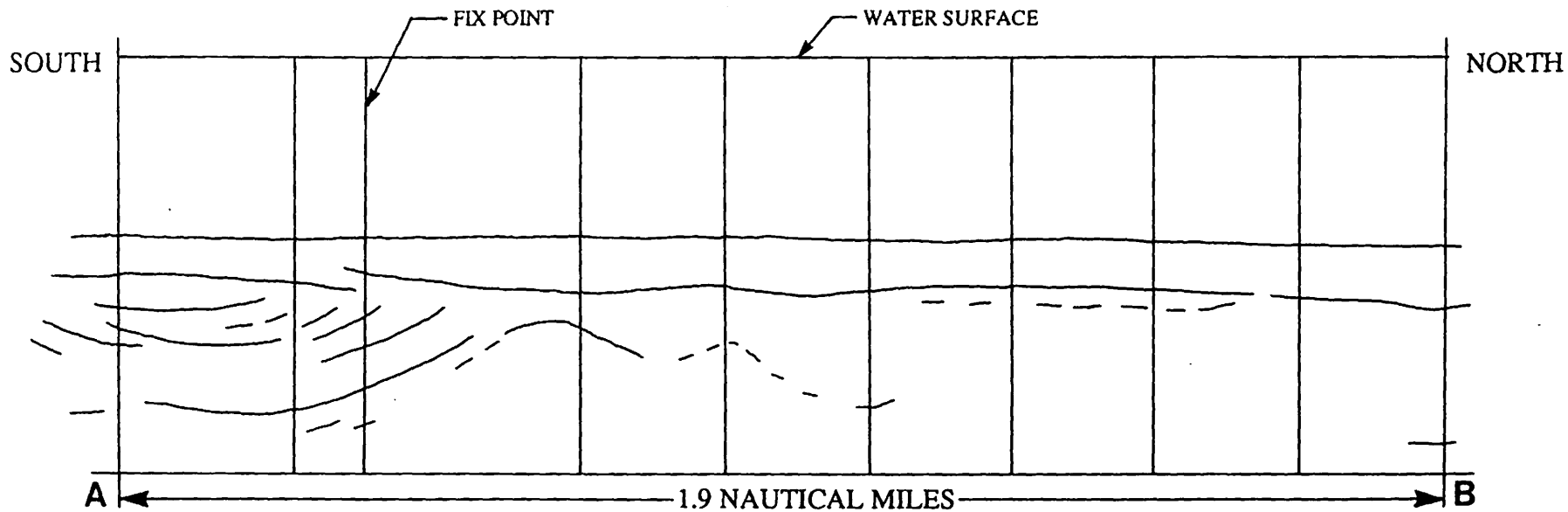
VERTICAL  
 SCALE  
 (meters)



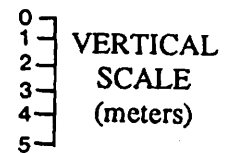
LINE 65

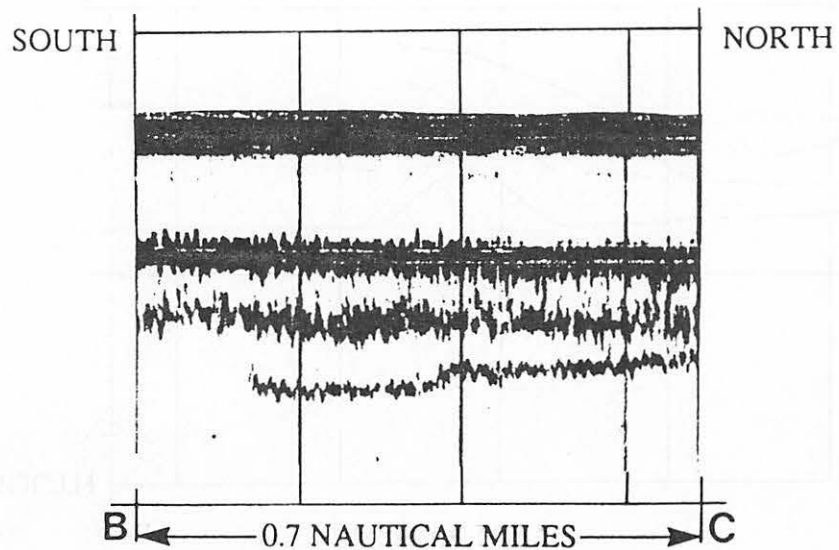
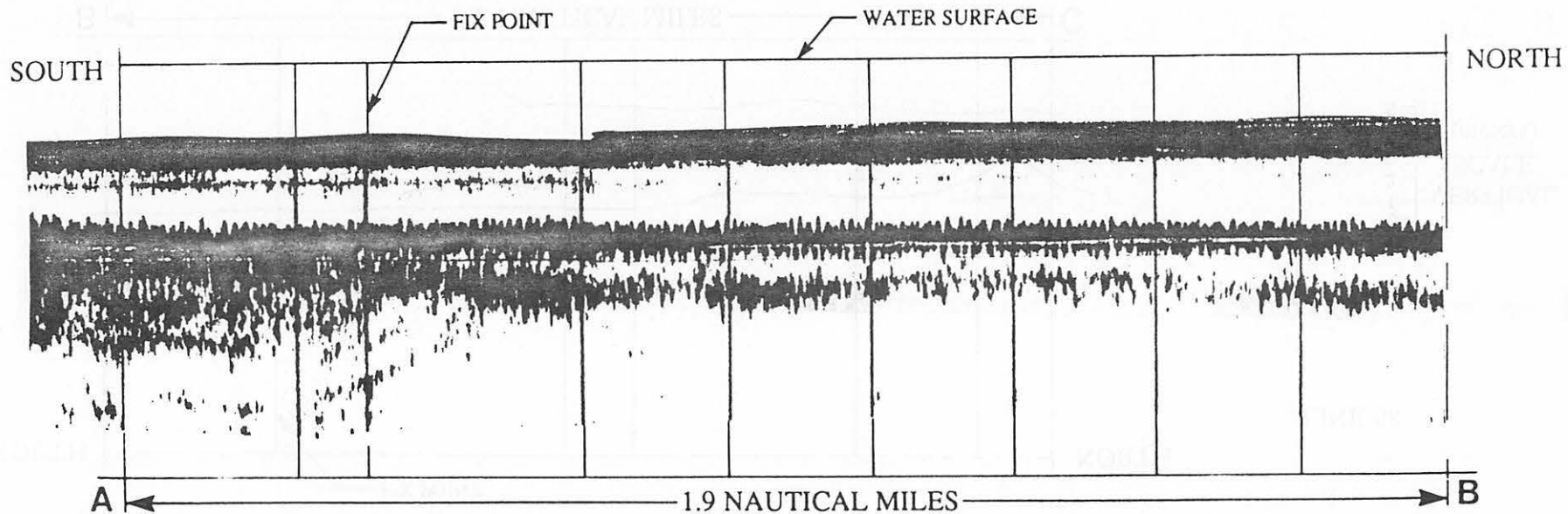






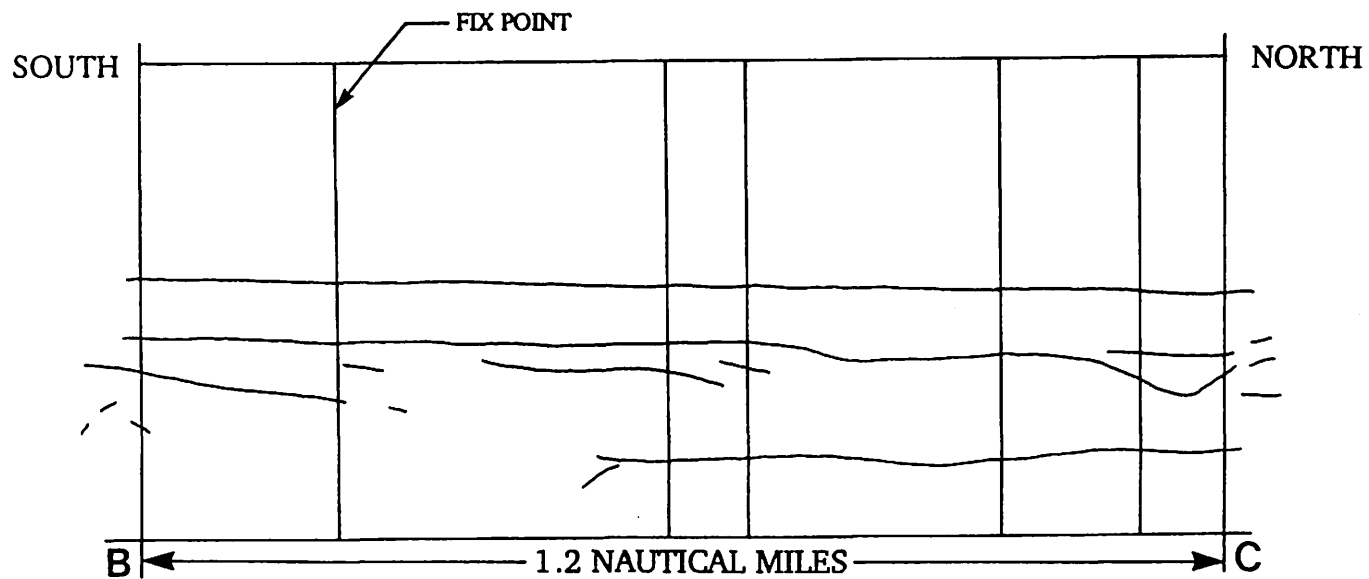
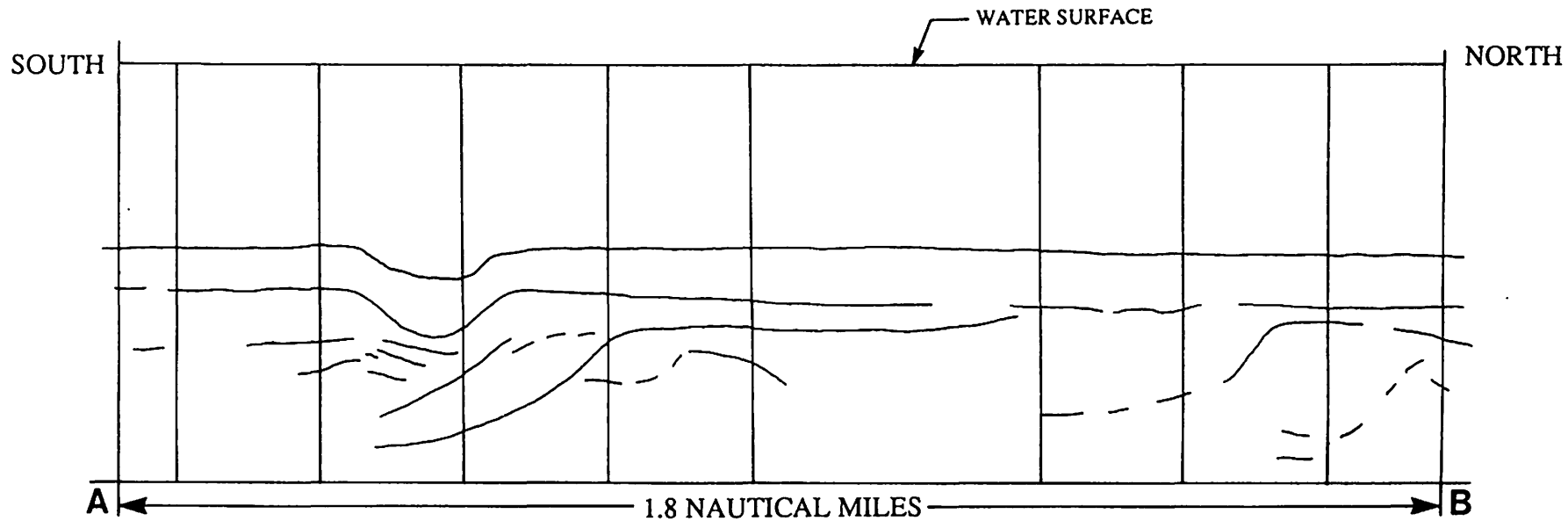
LINE 67



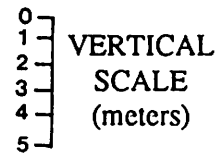


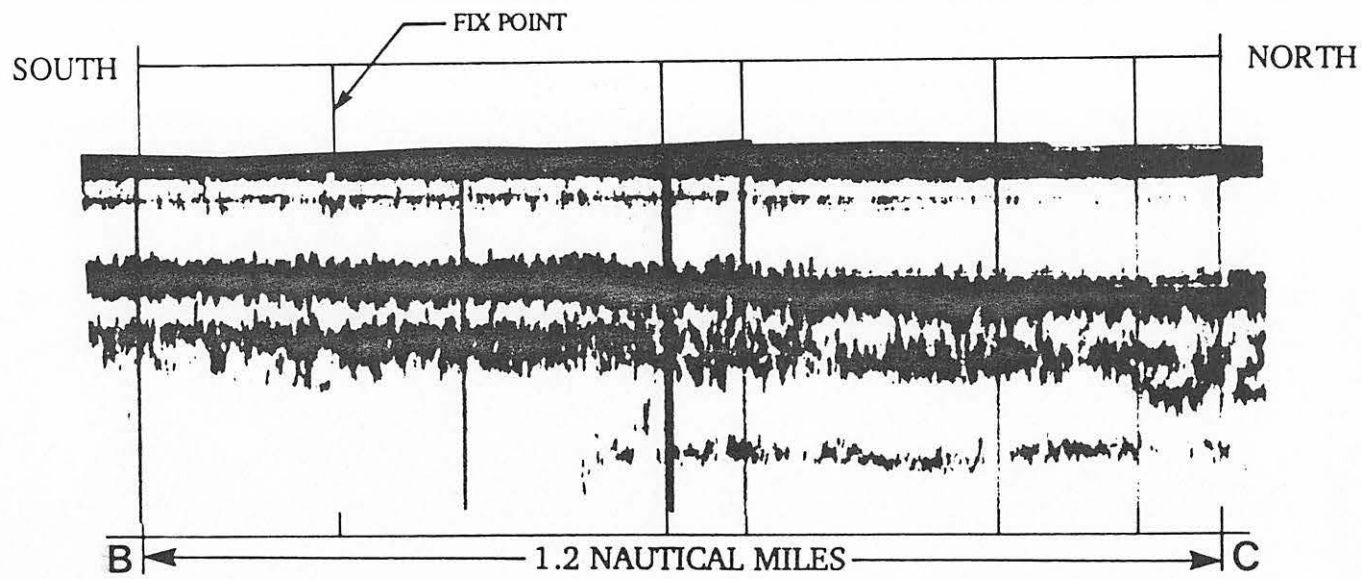
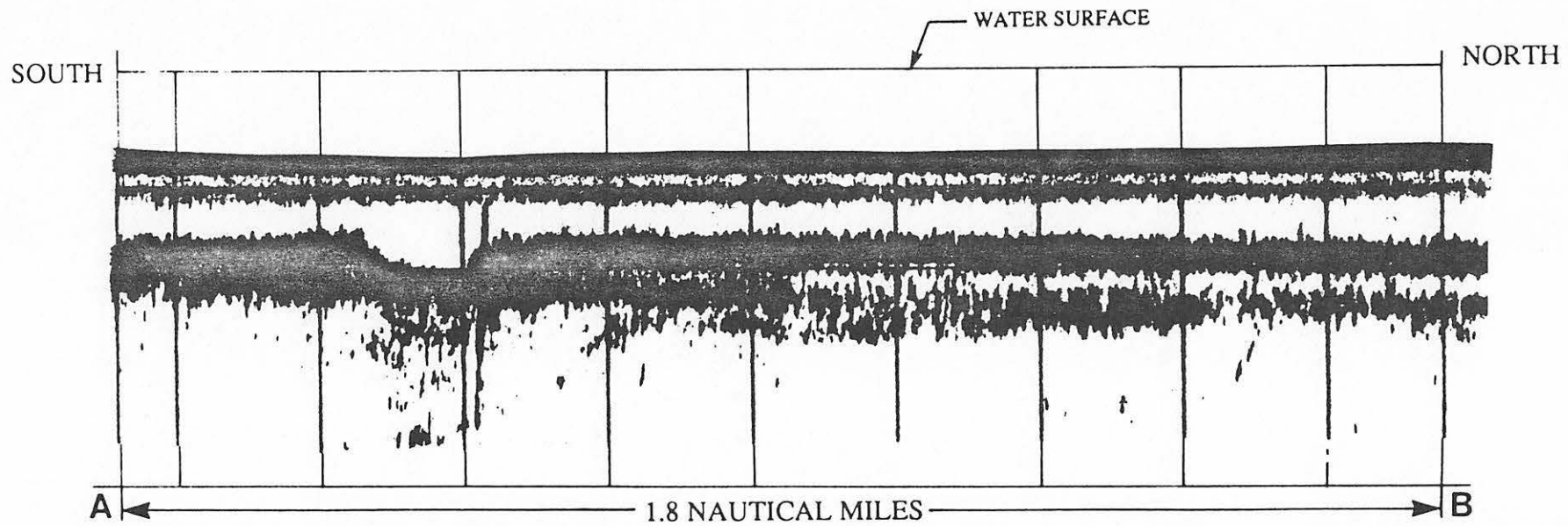
0  
1  
2  
3  
4  
5

VERTICAL  
SCALE  
(meters)



LINE 68





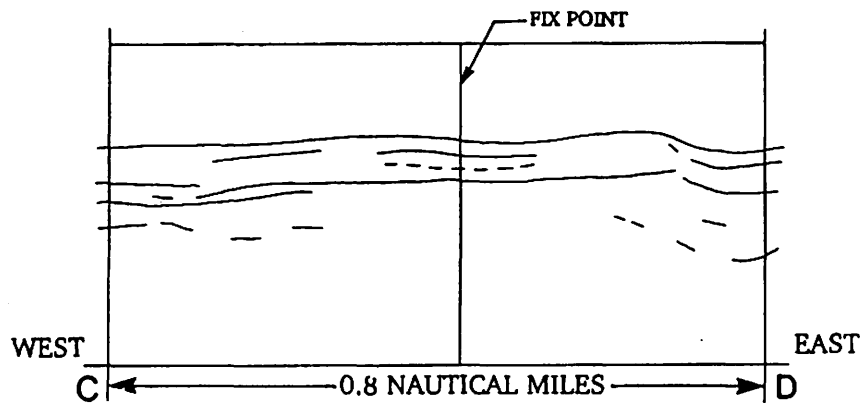
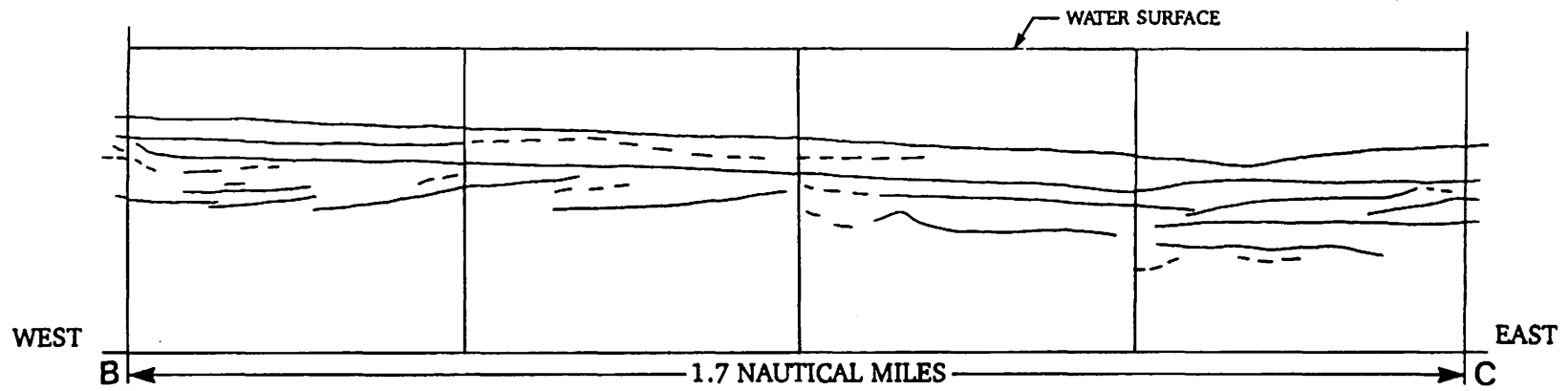
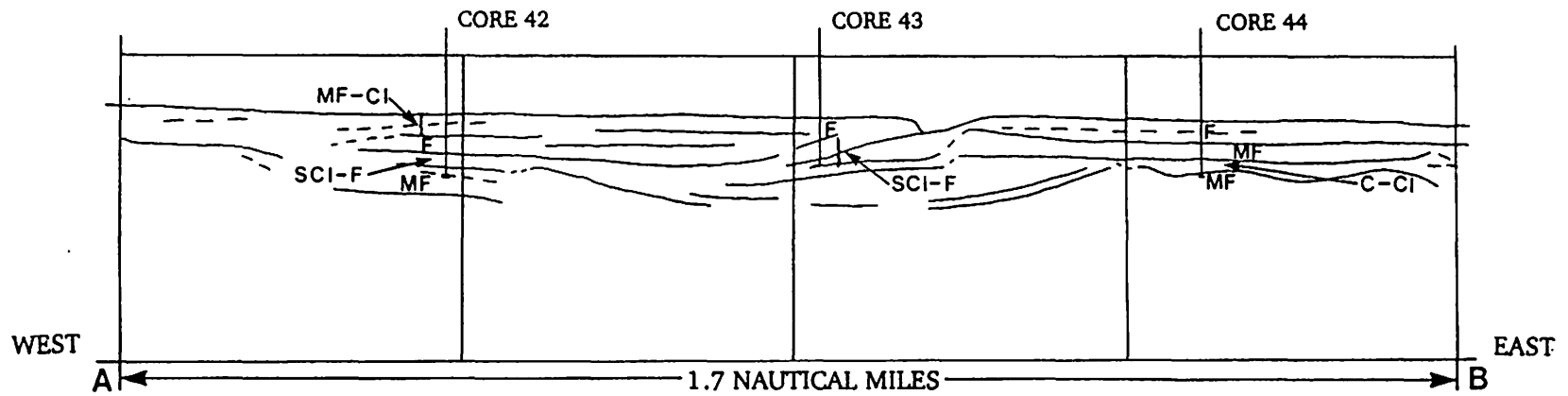
LINE 68

0  
1  
2  
3  
4  
5

VERTICAL  
SCALE  
(meters)



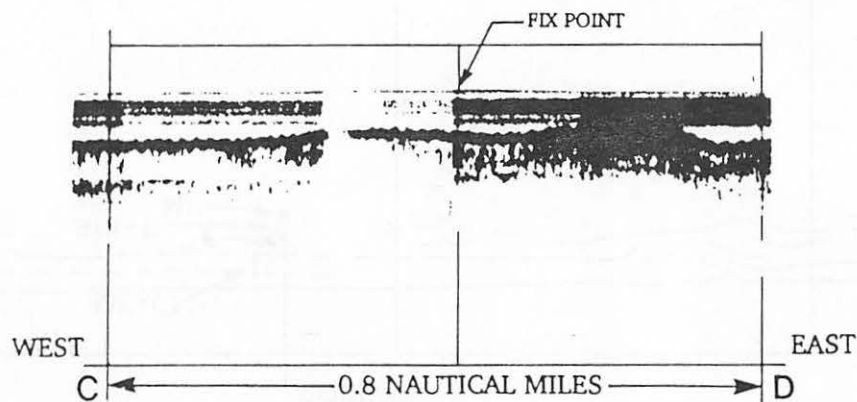
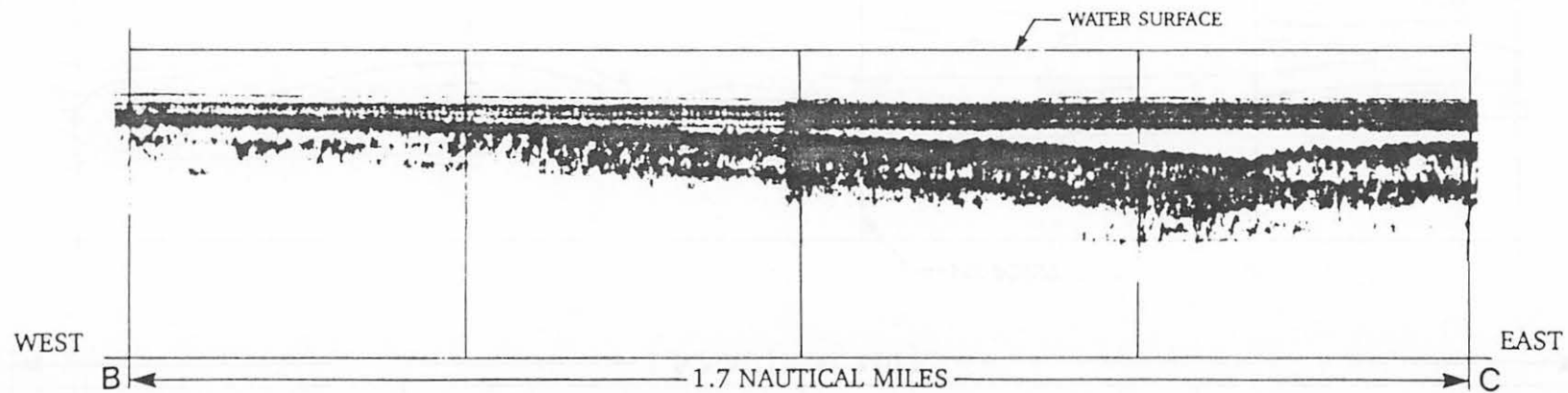
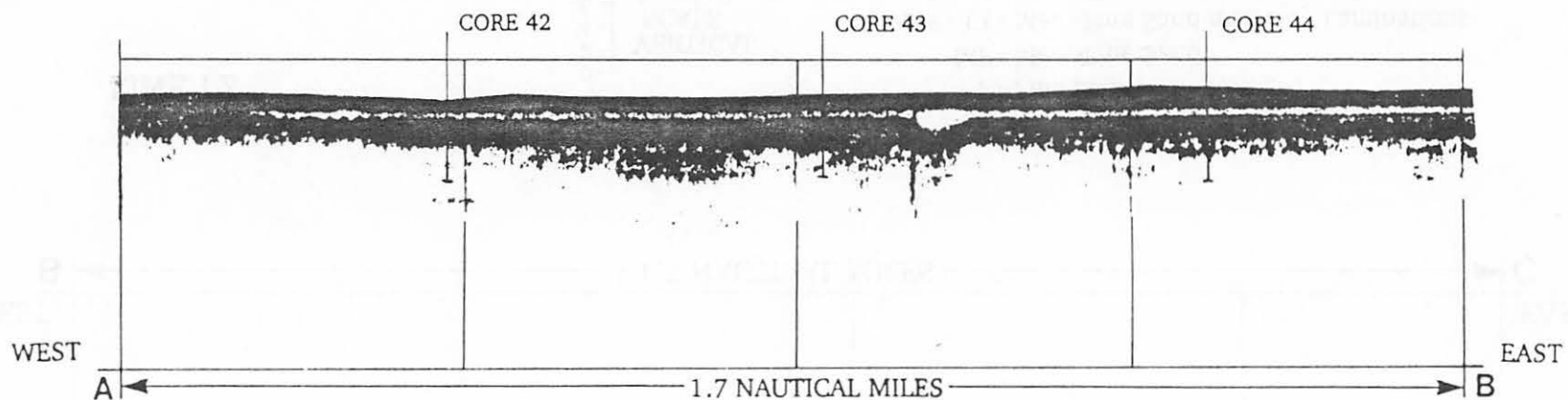
**Records of East-West Trending Lines**



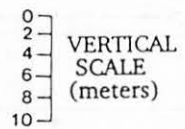
LINE 11

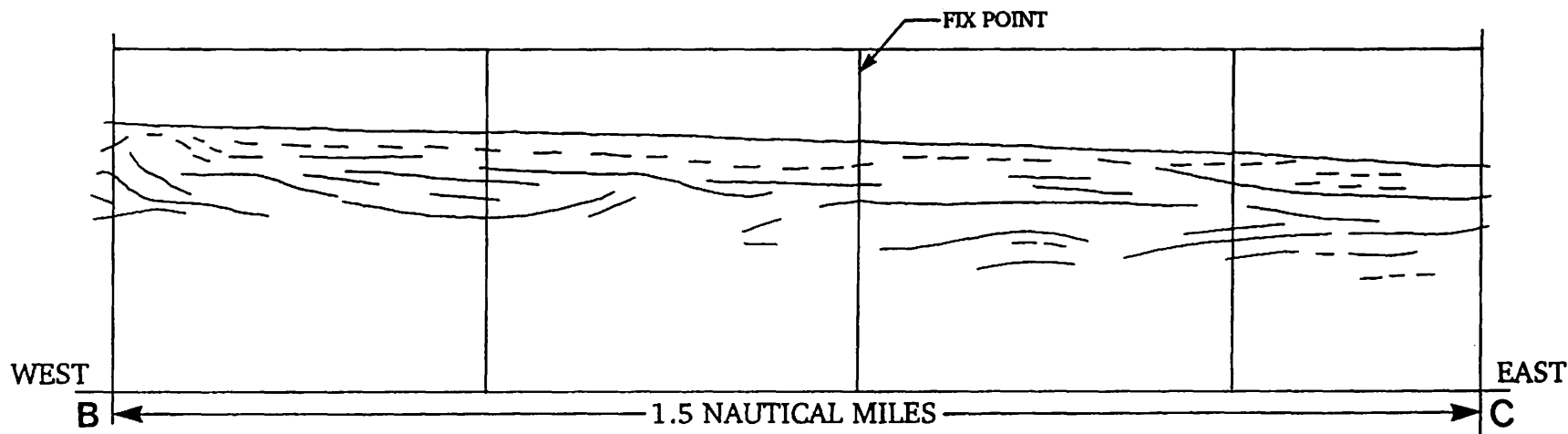
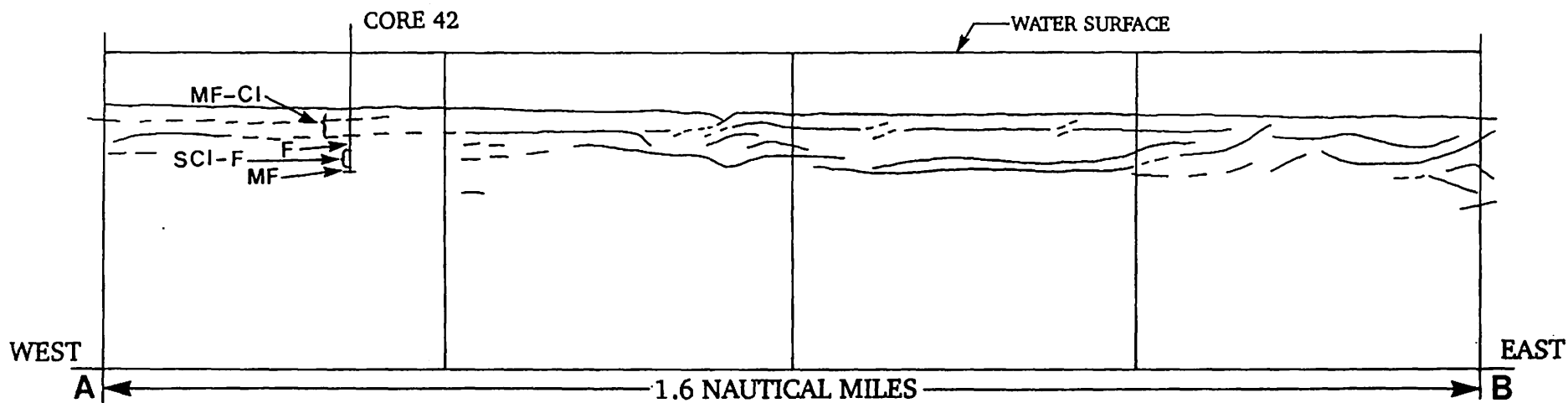
- F - Fine Sand
- MF - Med-Fine Sand
- MF-CI - Med-Fine Sand with Clay Laminations
- SCI-F - Silty Clay and Fine Sand Laminations
- C-CI - Coarse Sand and Clay Laminations

0  
2  
4  
6  
8  
10  
VERTICAL  
SCALE  
(meters)



LINE 11



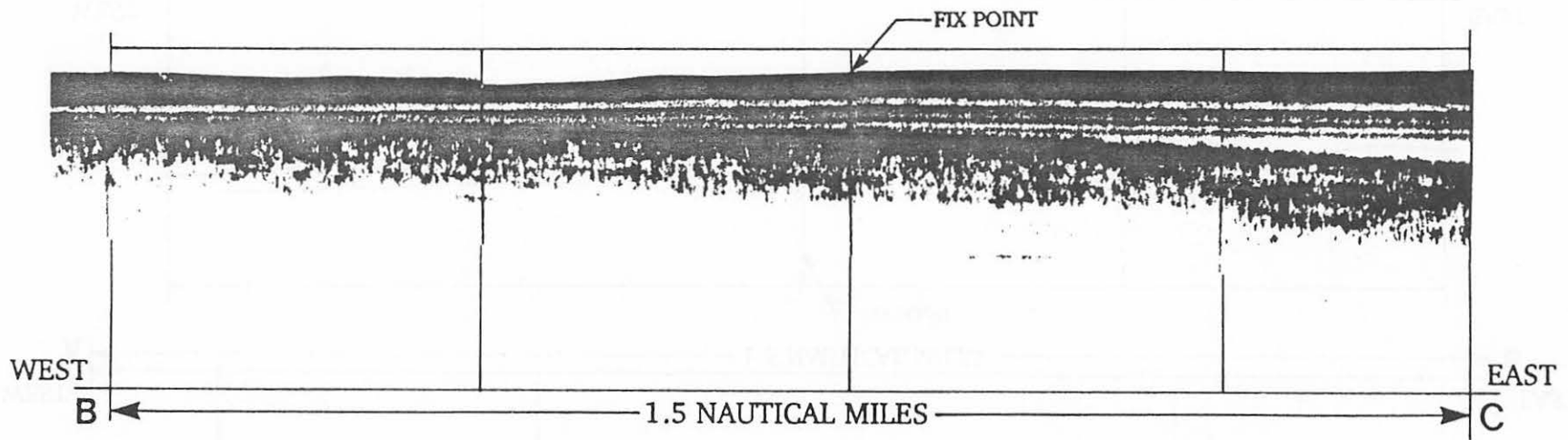
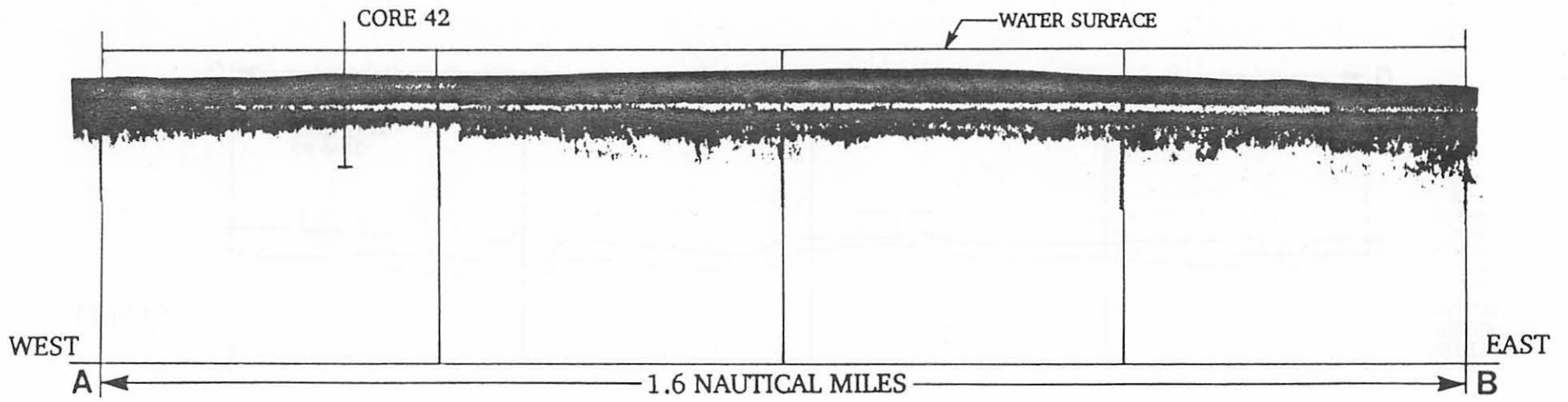


LINE 12

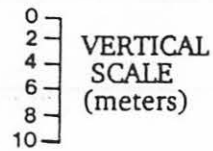
0  
2  
4  
6  
8  
10

VERTICAL  
SCALE  
(meters)

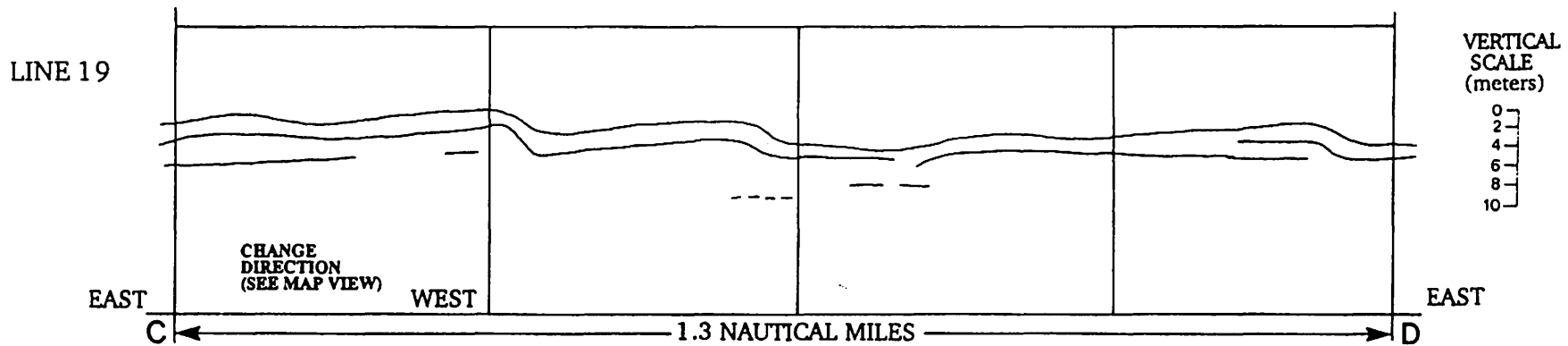
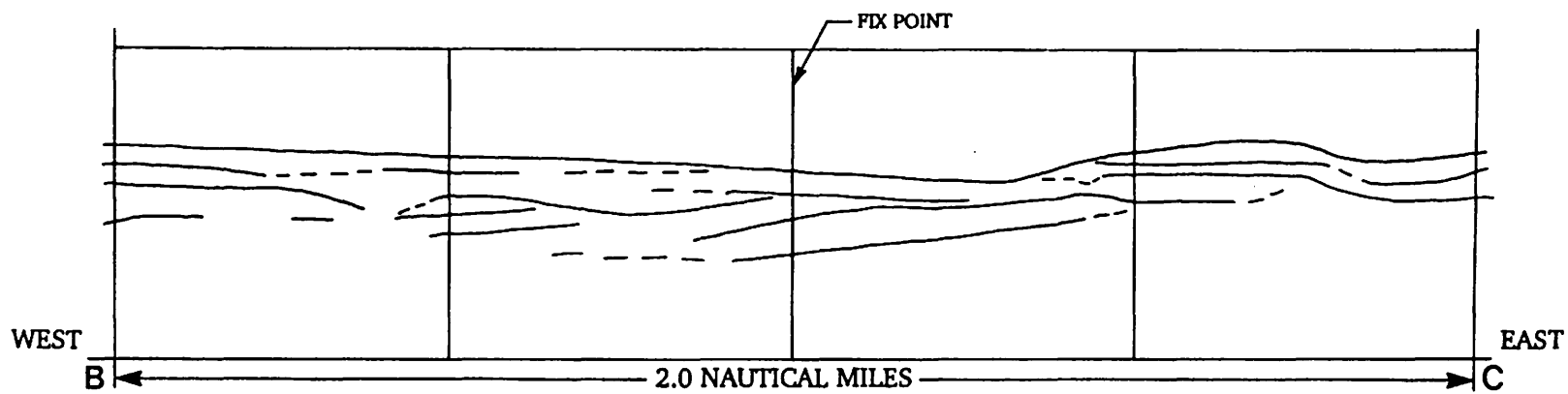
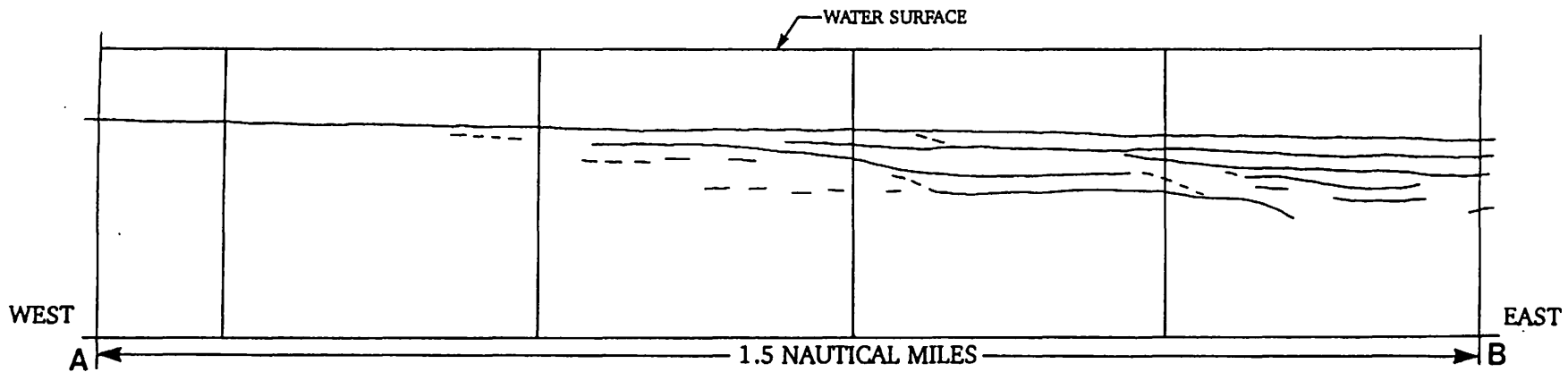
F - Fine Sand  
MF - Med.-Fine Sand  
MP - CI - Med.-Fine Sand and Clay Laminations  
SCI - F - Silty Clay and Fine Sand Laminations

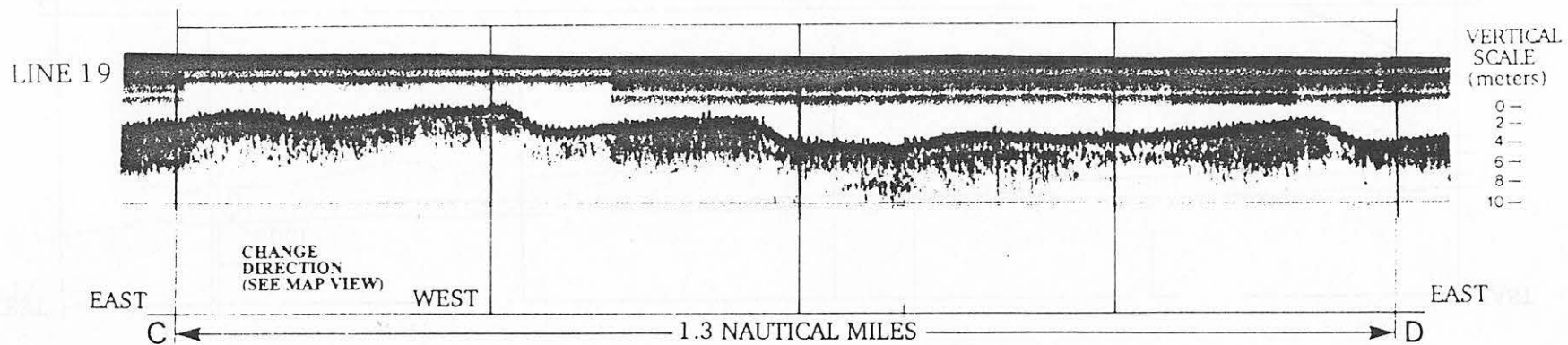
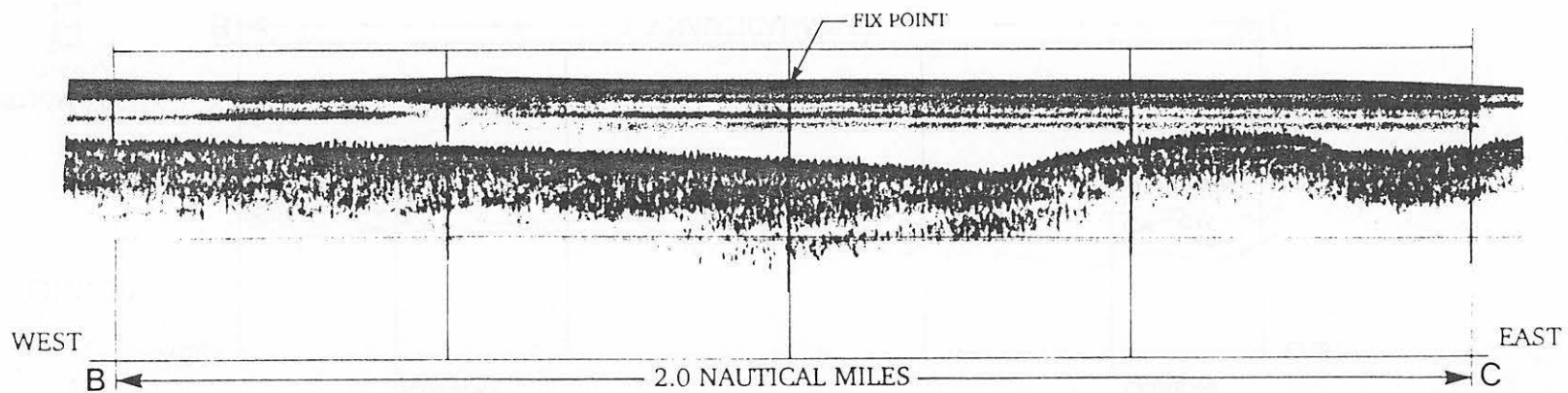
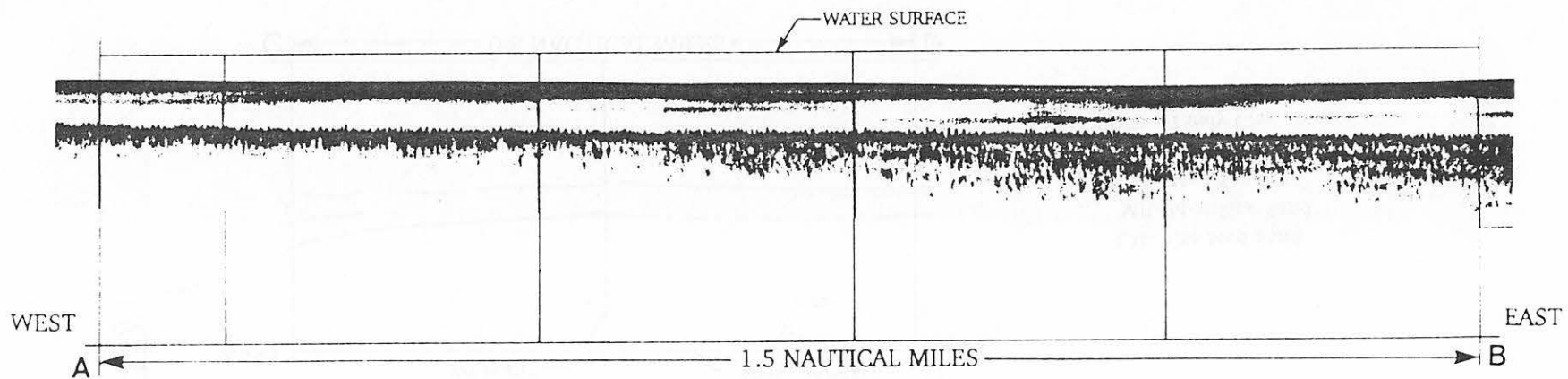


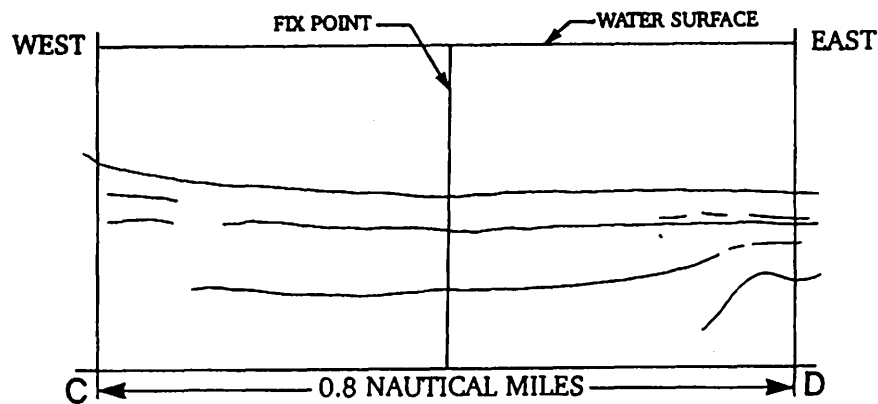
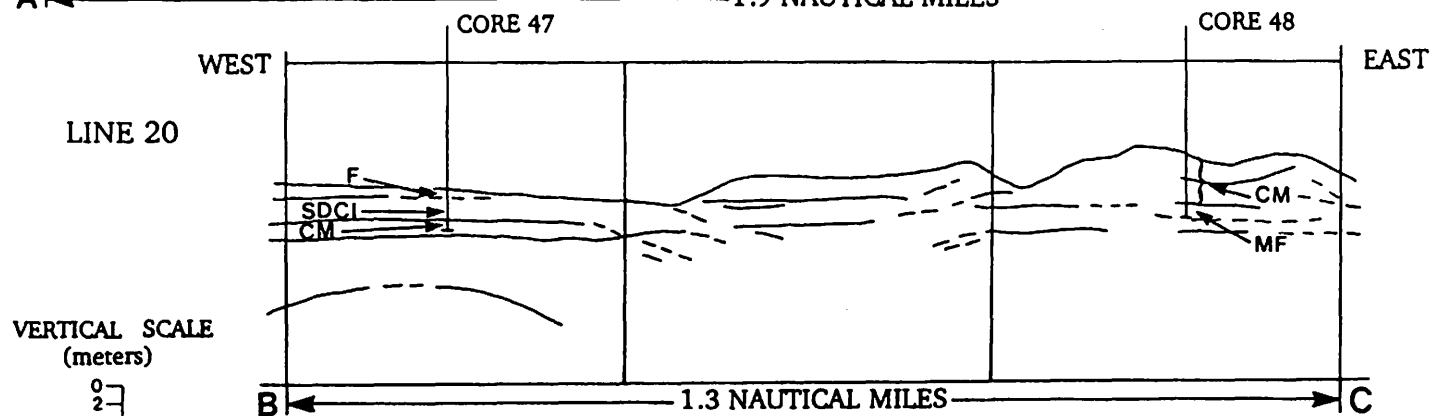
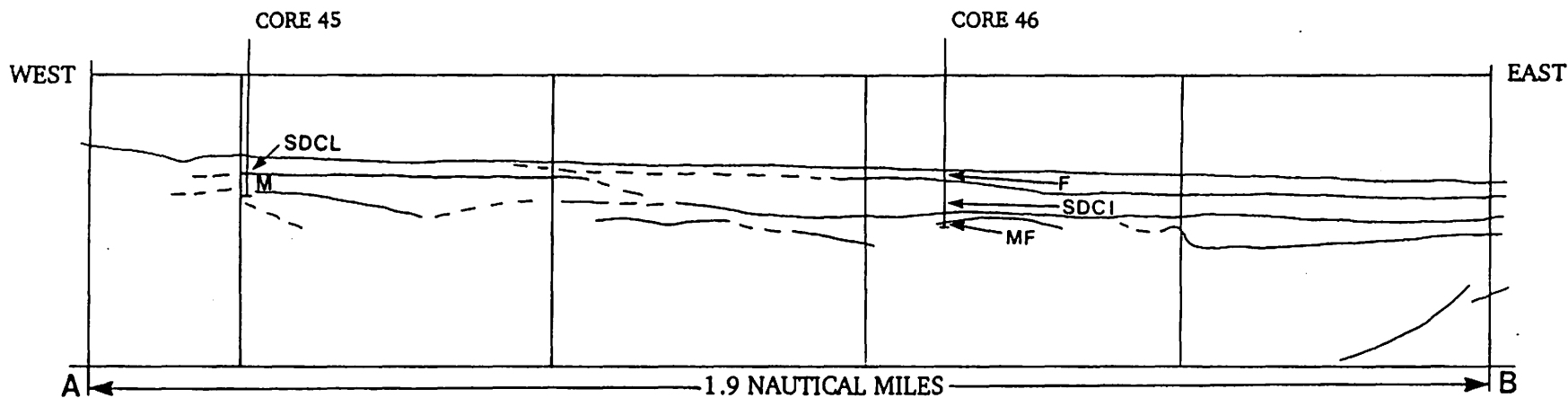
LINE 12



- F - Fine Sand
- MF - Med.-Fine Sand
- MF - Cl - Med.-Fine Sand and Clay Laminations
- SCI - F - Silty Clay and Fine Sand Laminations

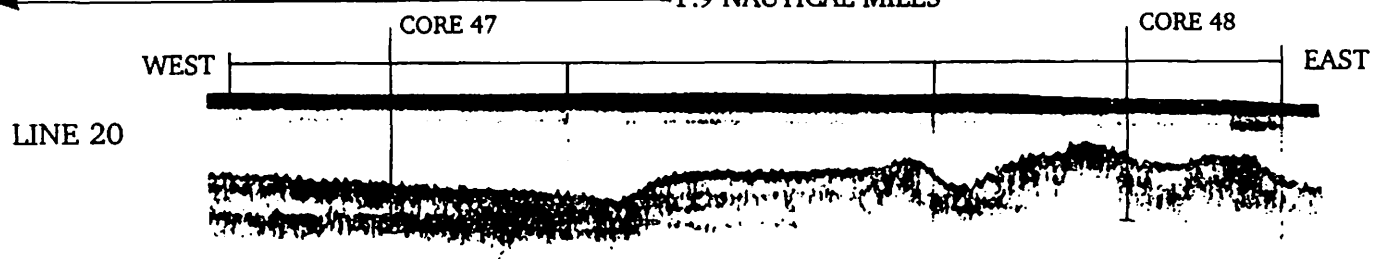
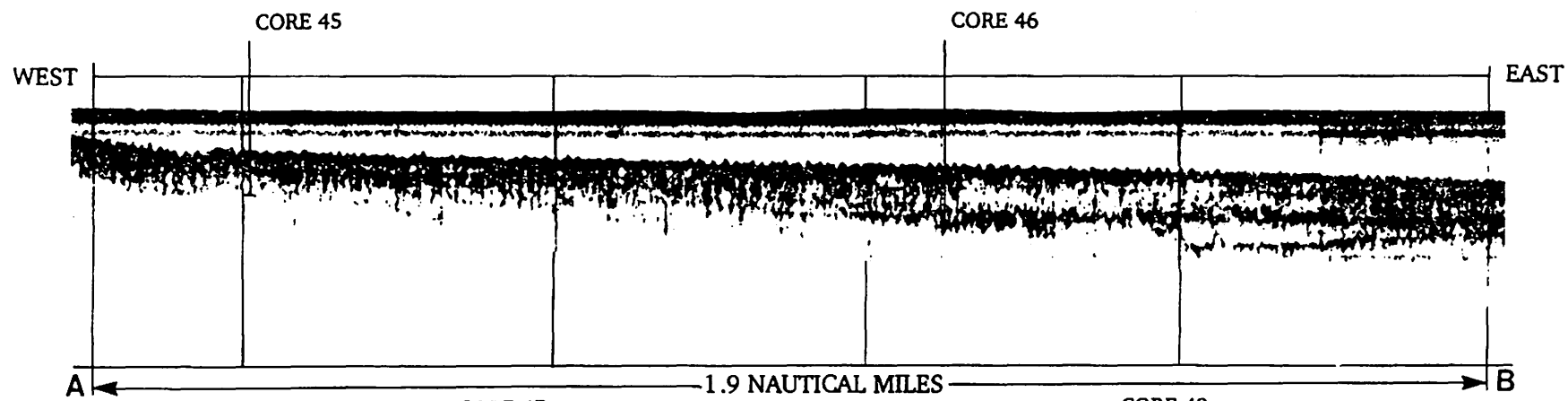




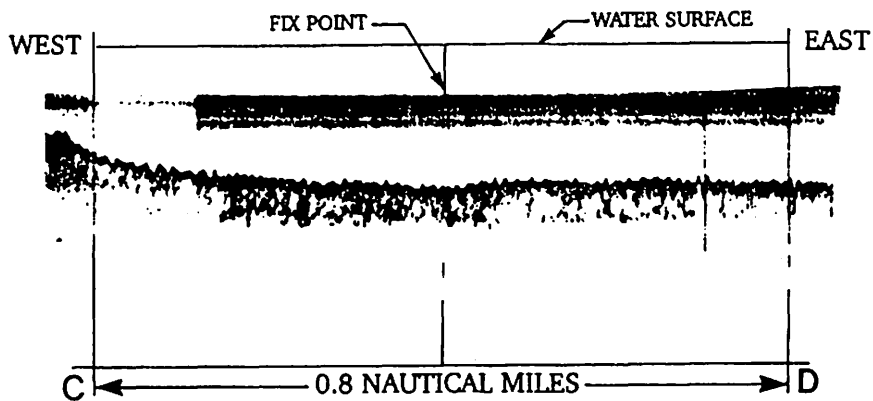
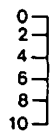


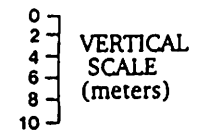
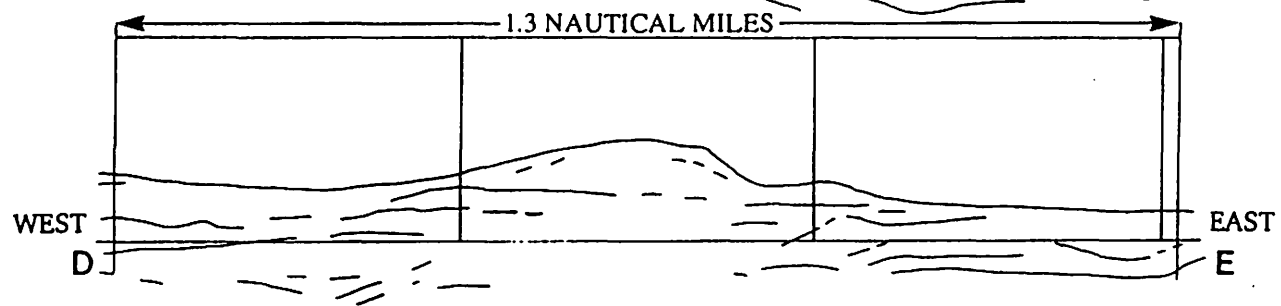
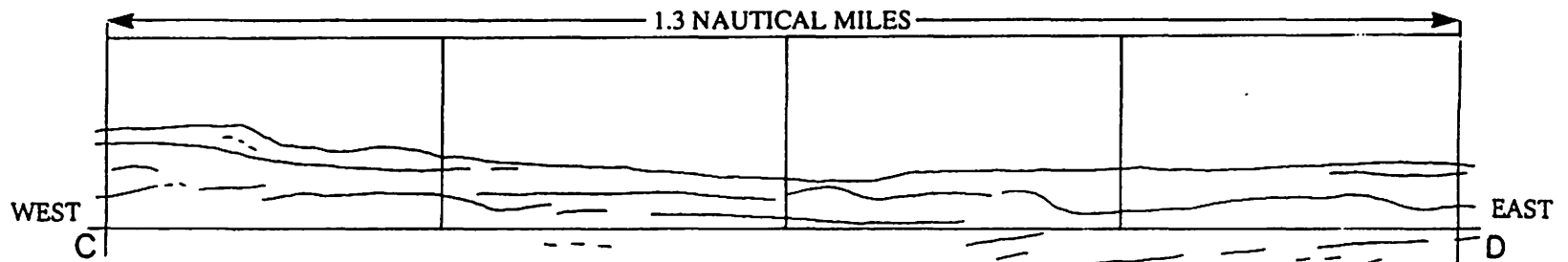
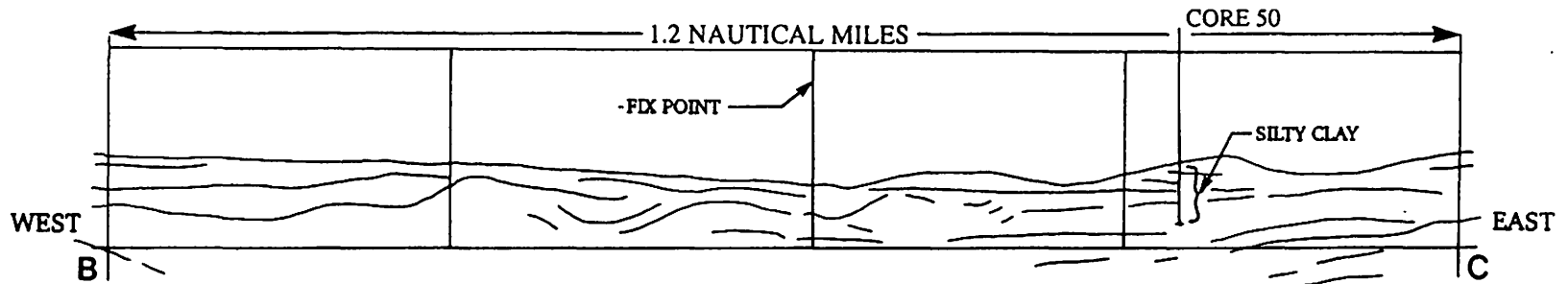
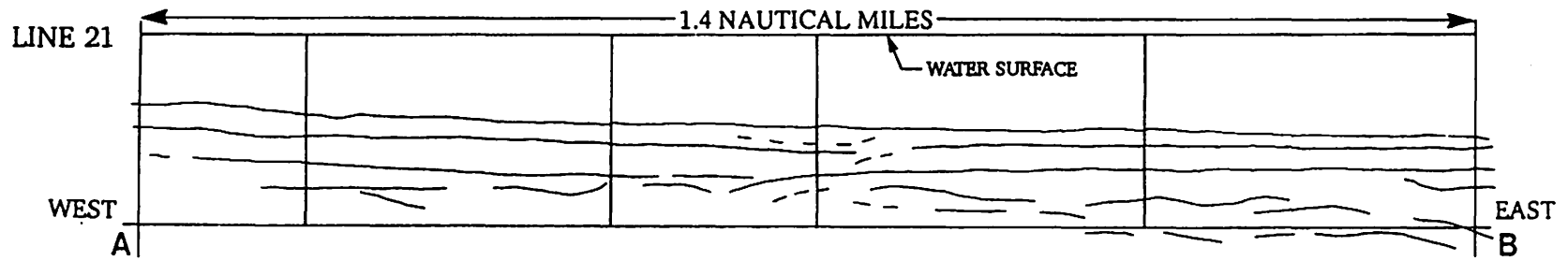
CM - Cse-Med Sand  
 MF - Med-Fine Sand  
 M - Med Sand  
 F - Fine Sand  
 SDCL - Sandy Clay

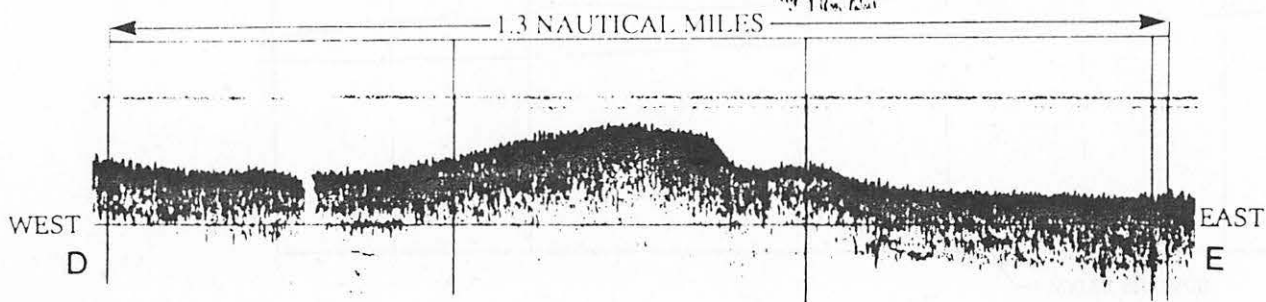
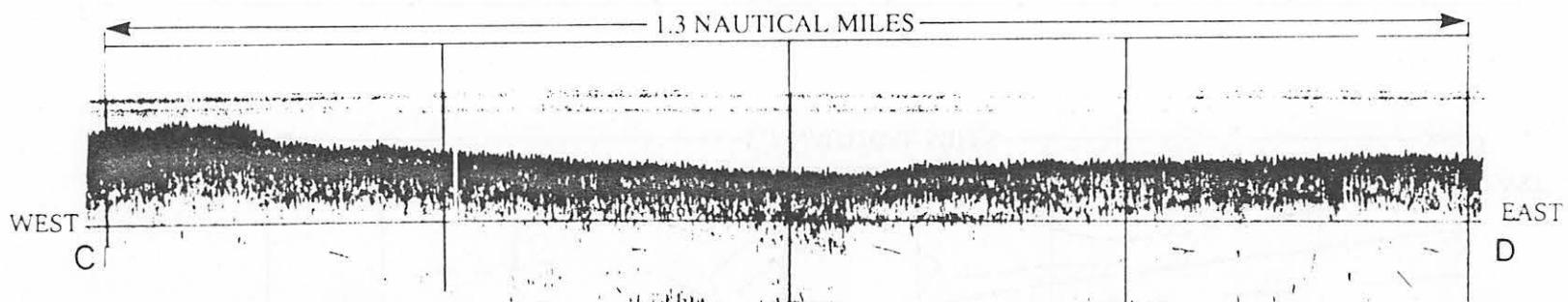
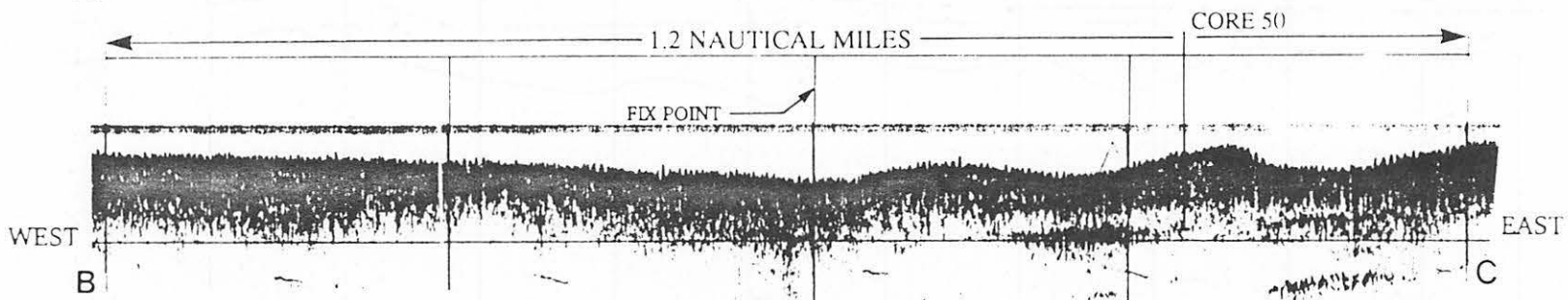
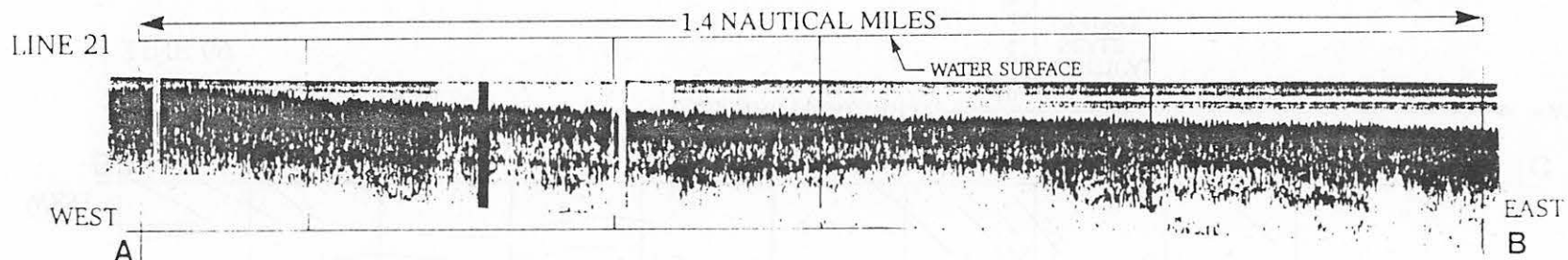




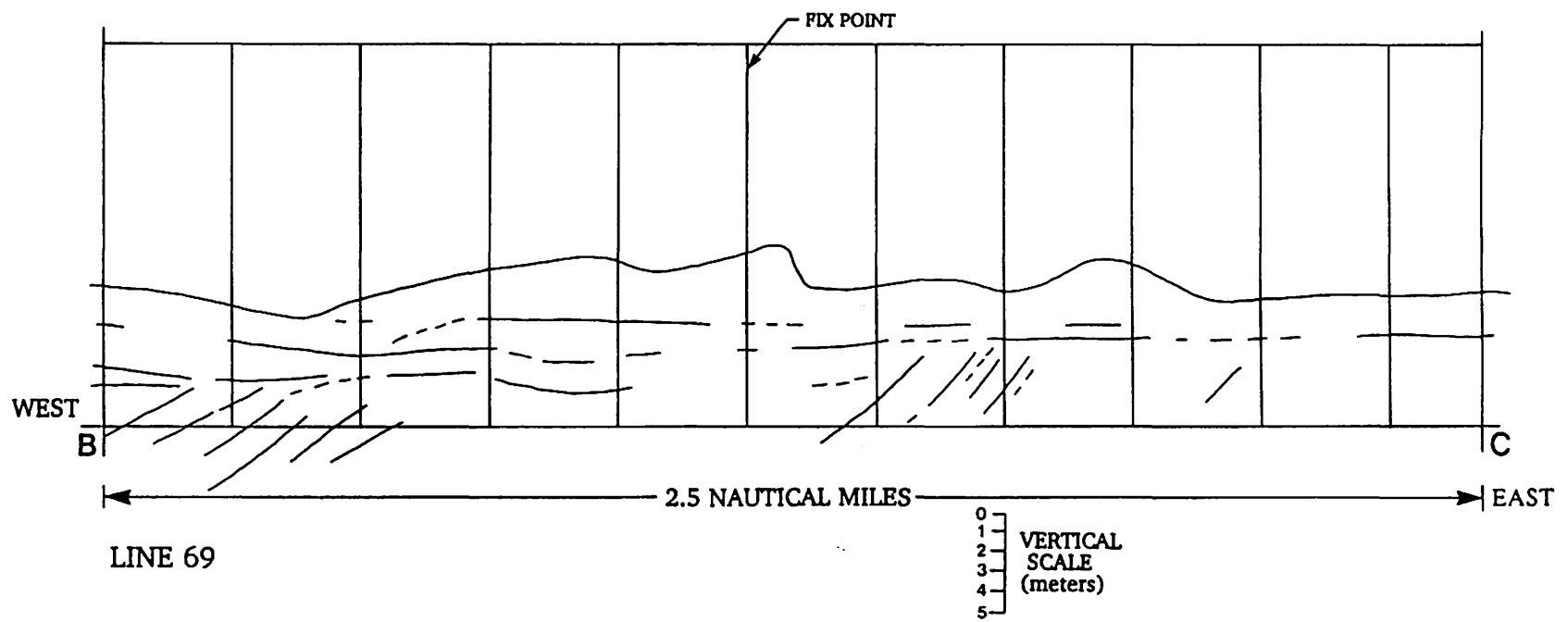
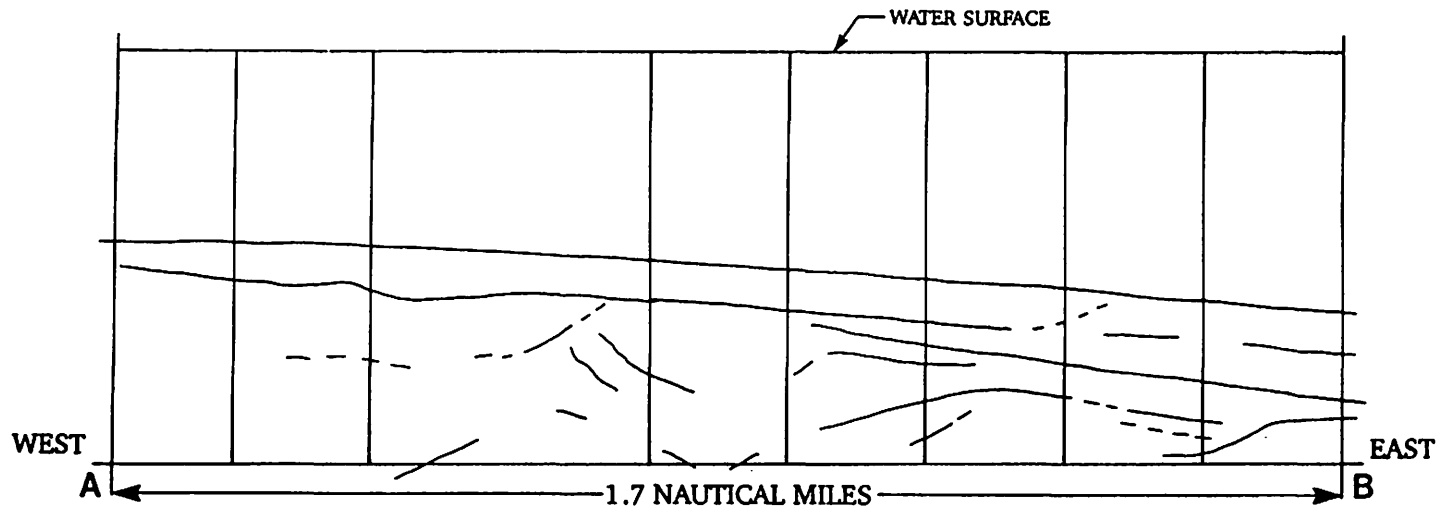
VERTICAL SCALE  
(meters)

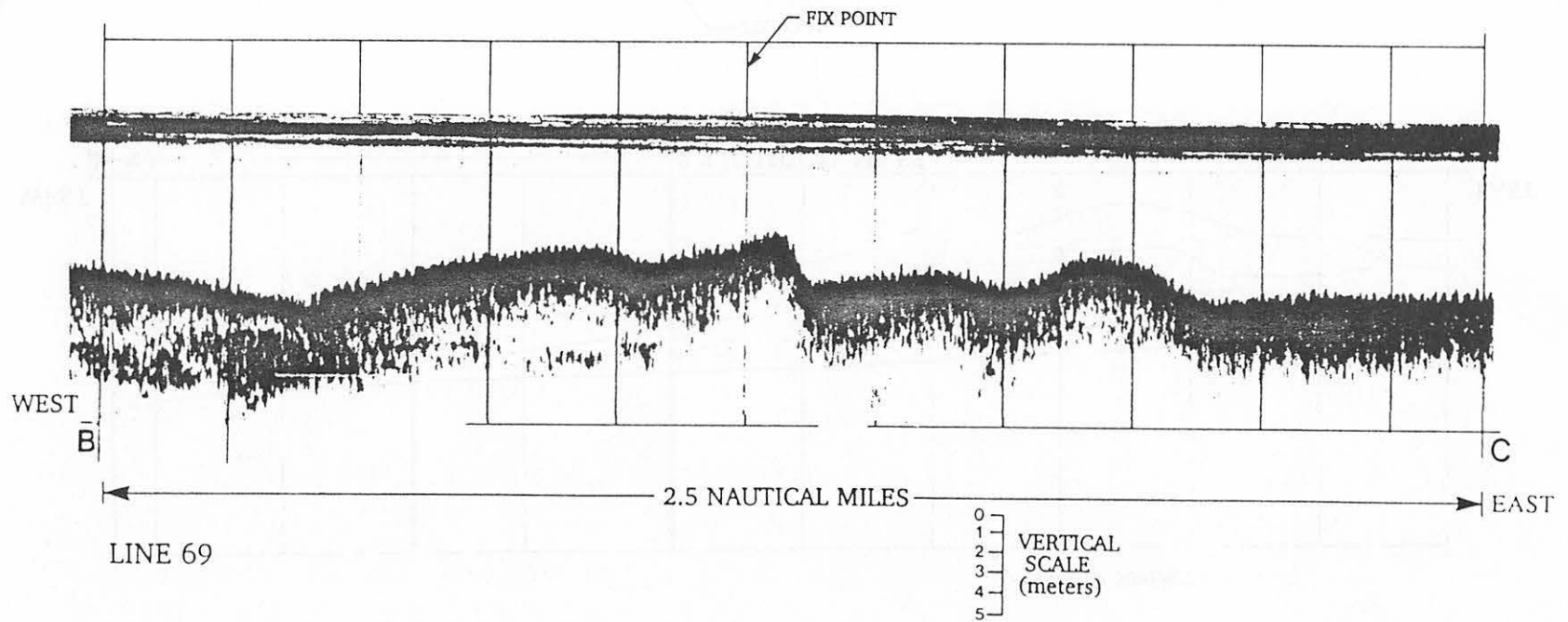
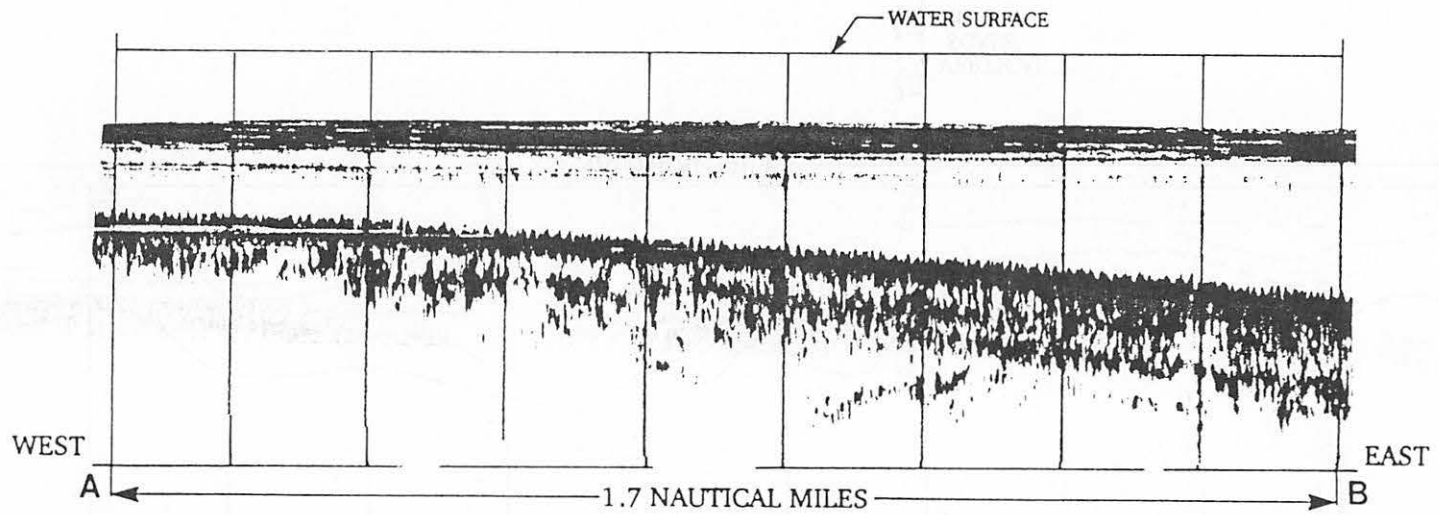


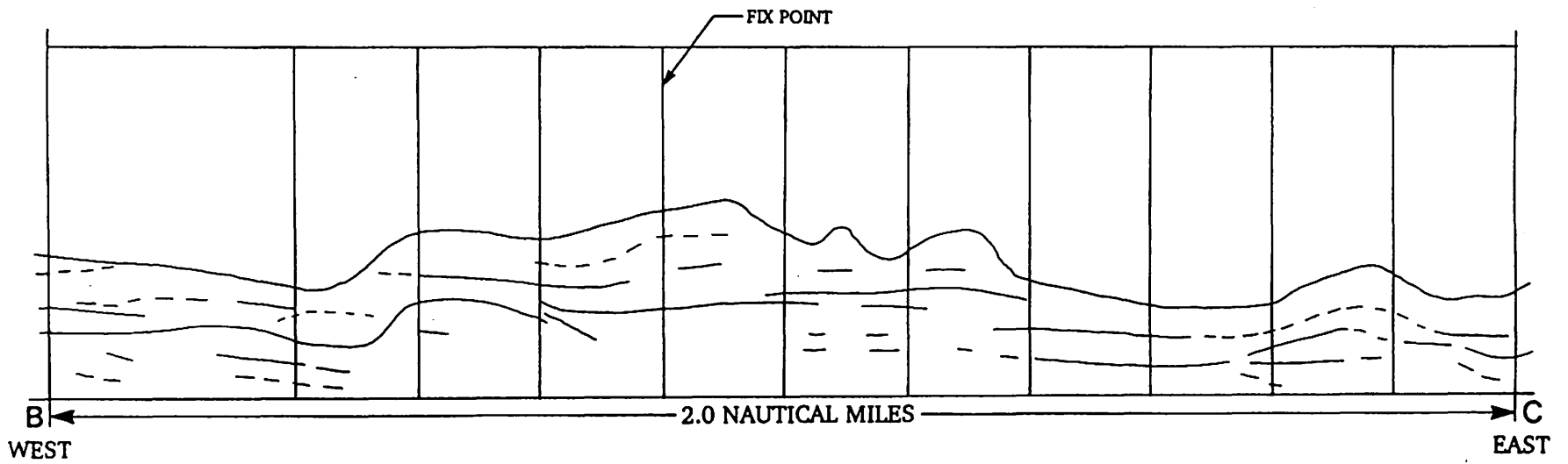
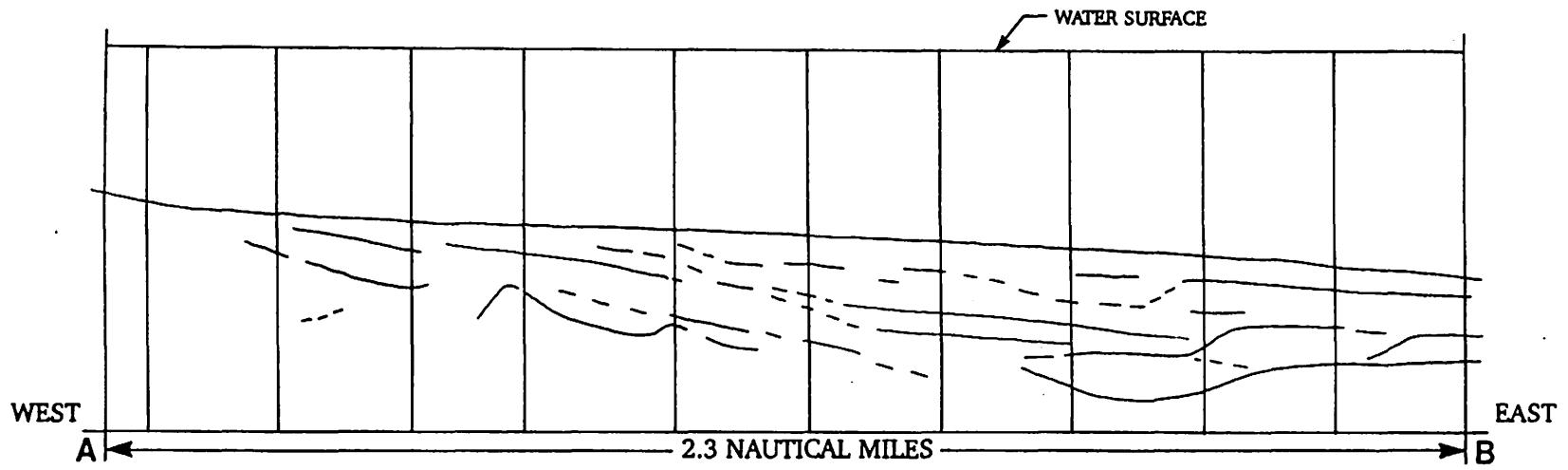




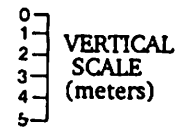
0 -  
2 -  
4 - VERTICAL  
6 - SCALE  
8 - (meters)  
10 -

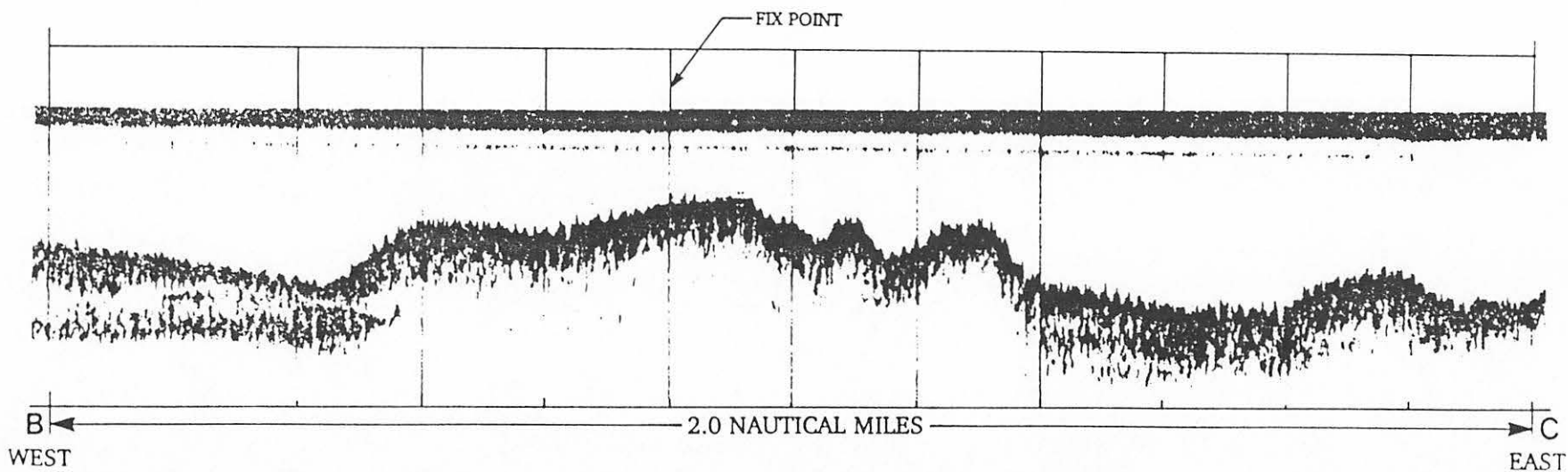
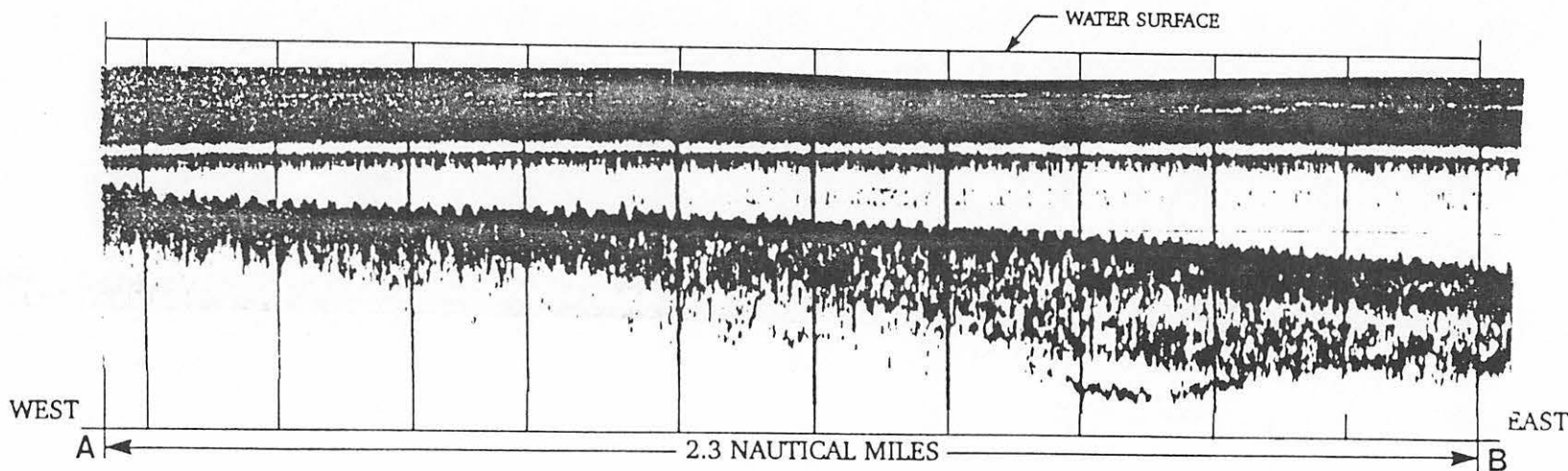






LINE 70





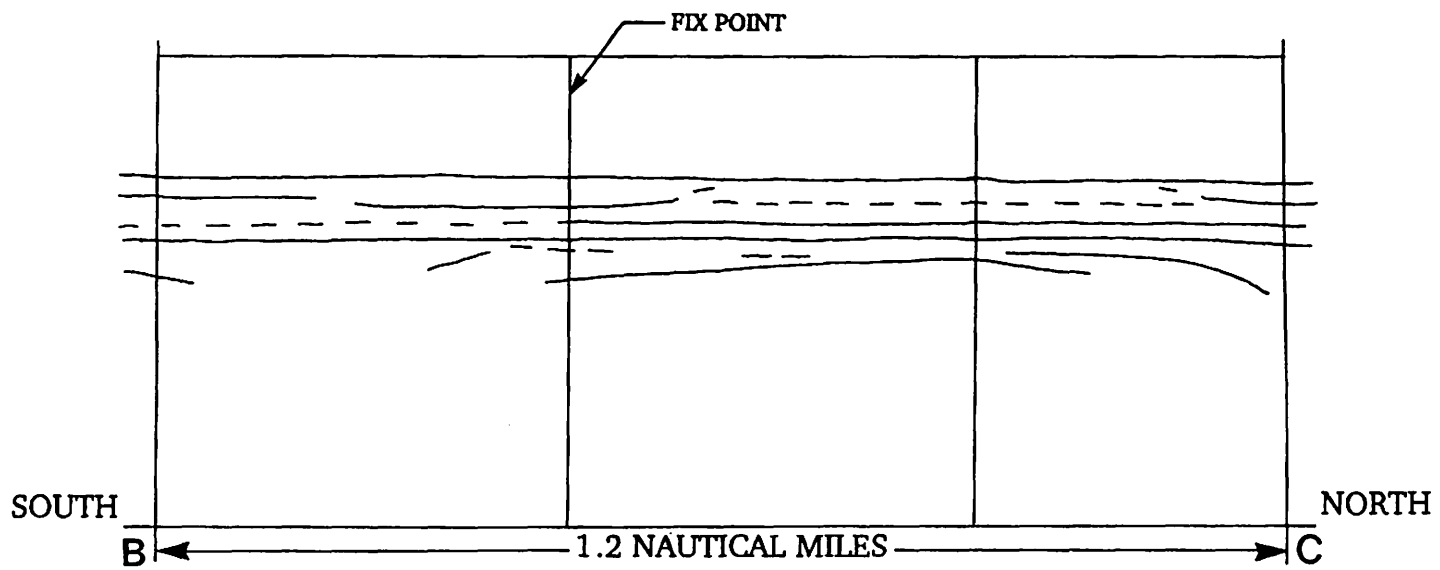
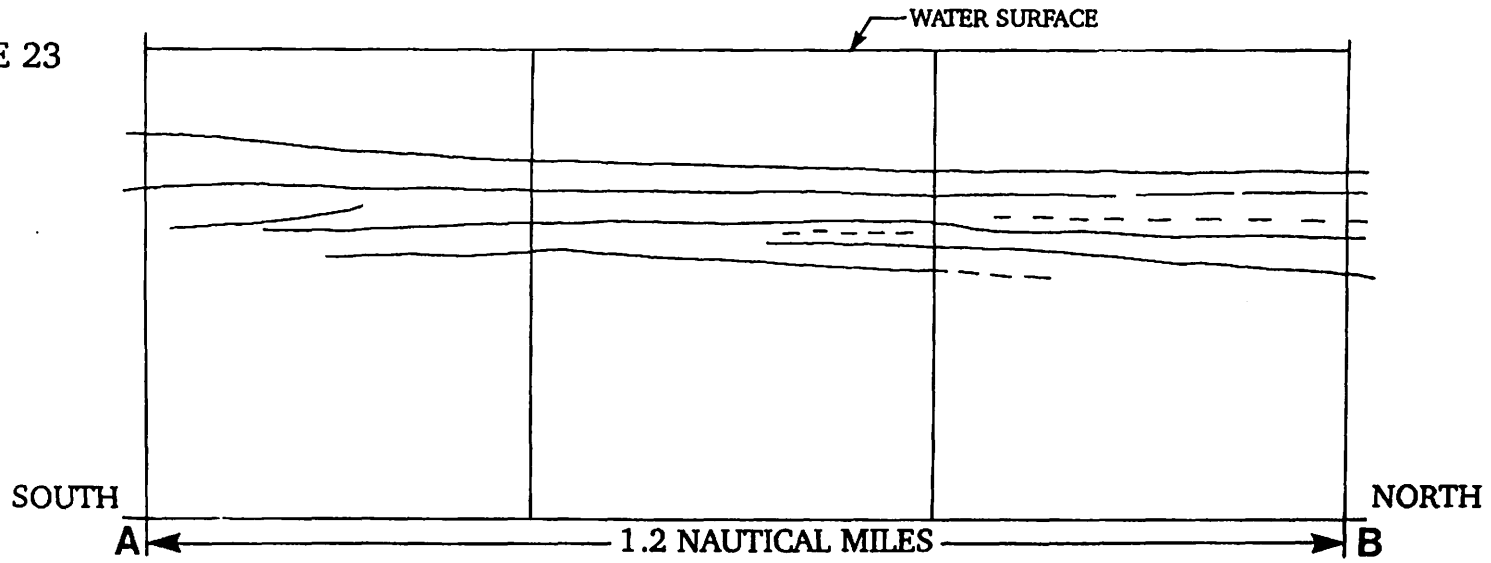
LINE 70

0  
1  
2  
3  
4  
5  
] VERTICAL  
SCALE  
(meters)

**Records of North-South Trending Lines**



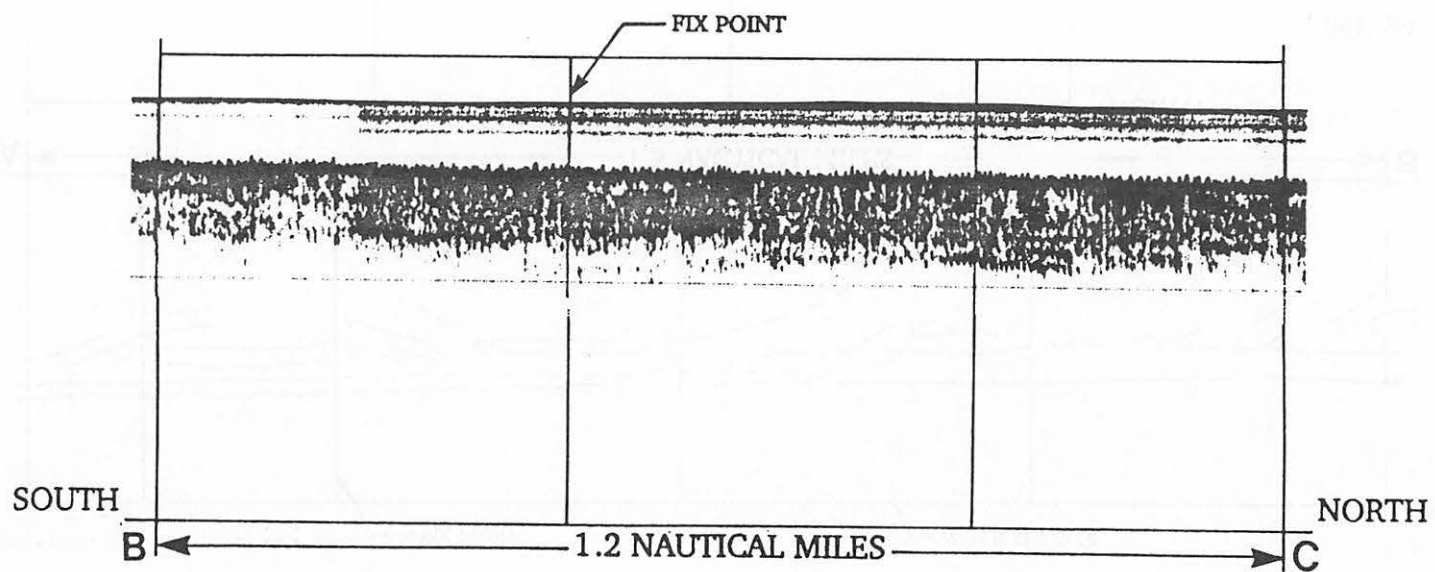
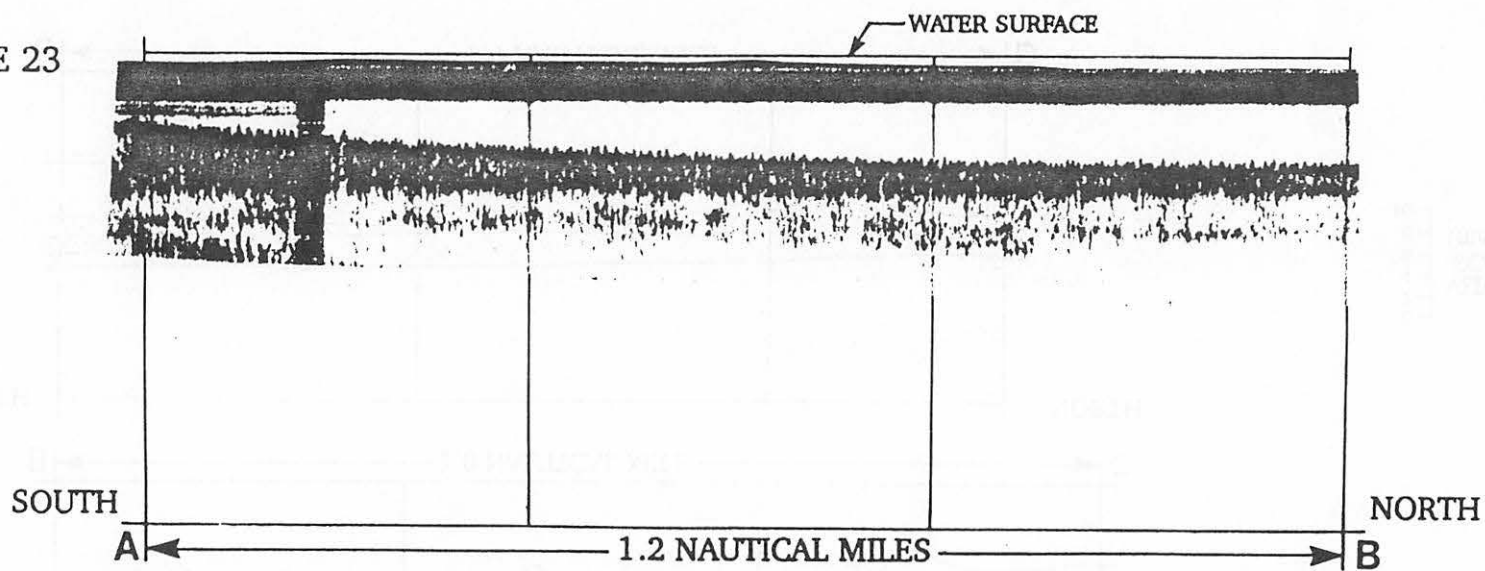
LINE 23



0  
2  
4  
6  
8  
10

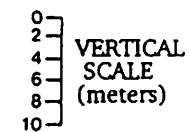
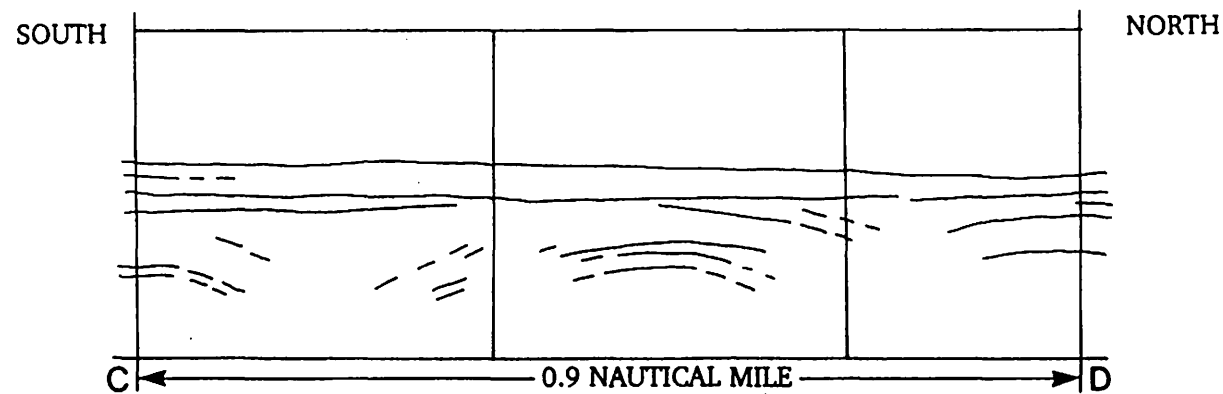
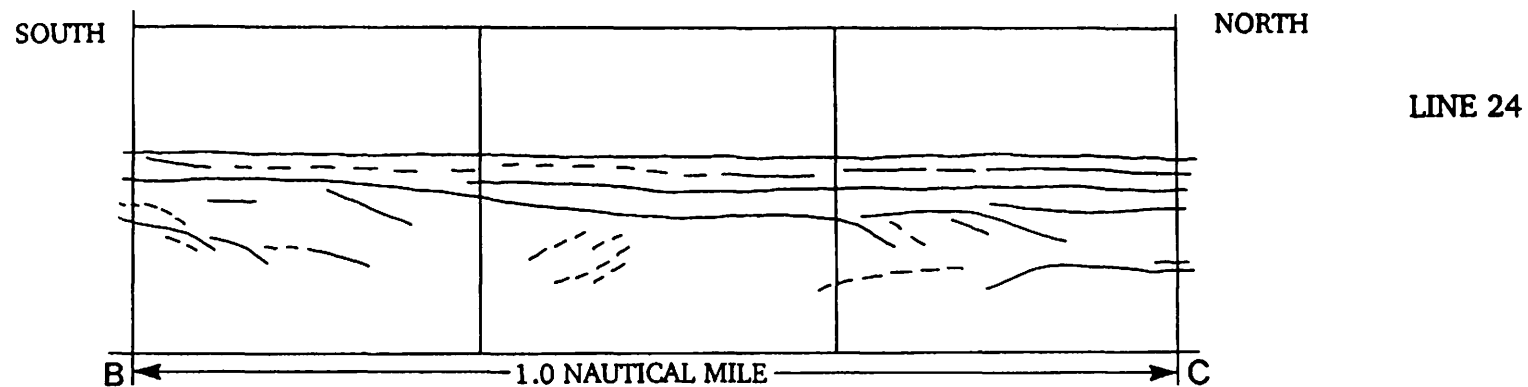
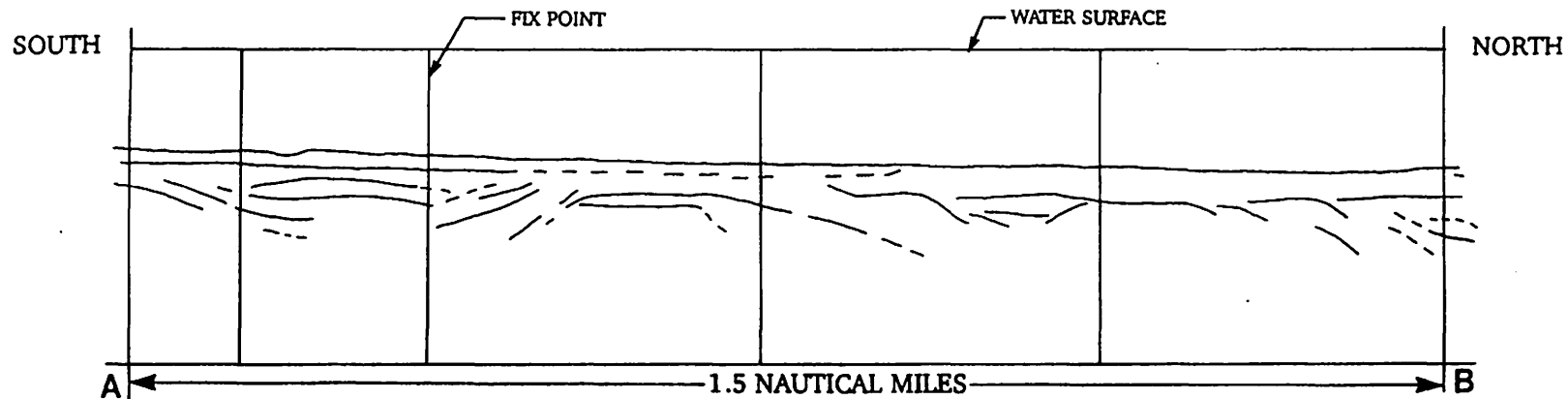
VERTICAL  
SCALE  
(meters)

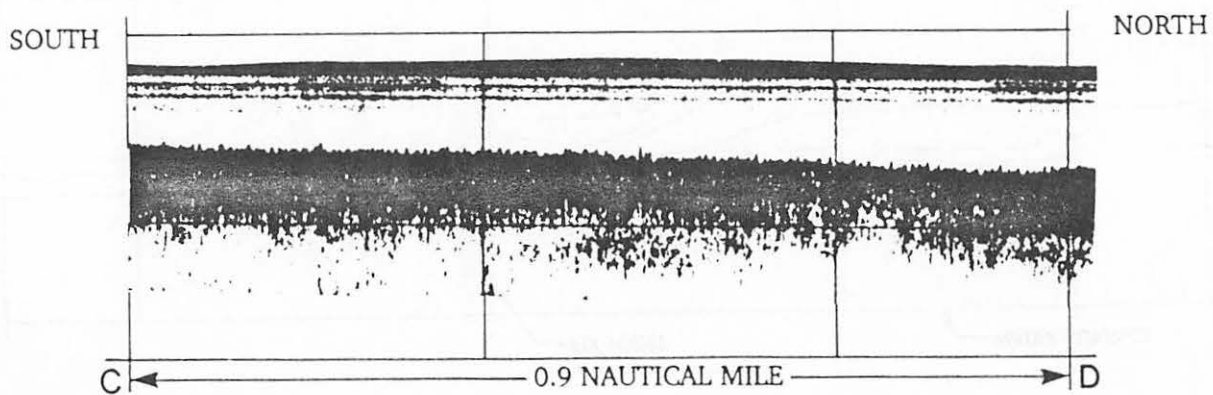
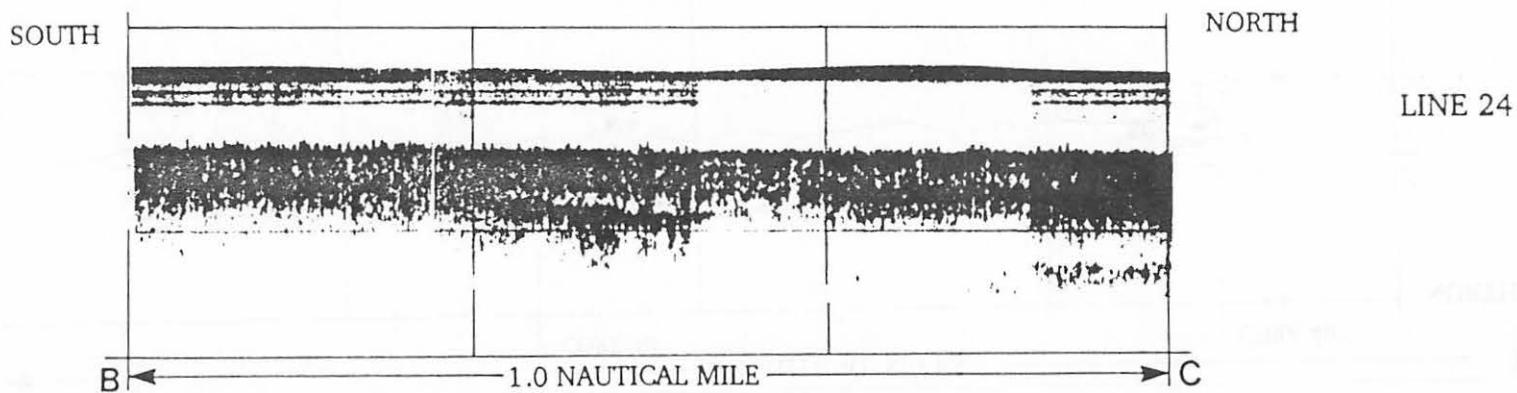
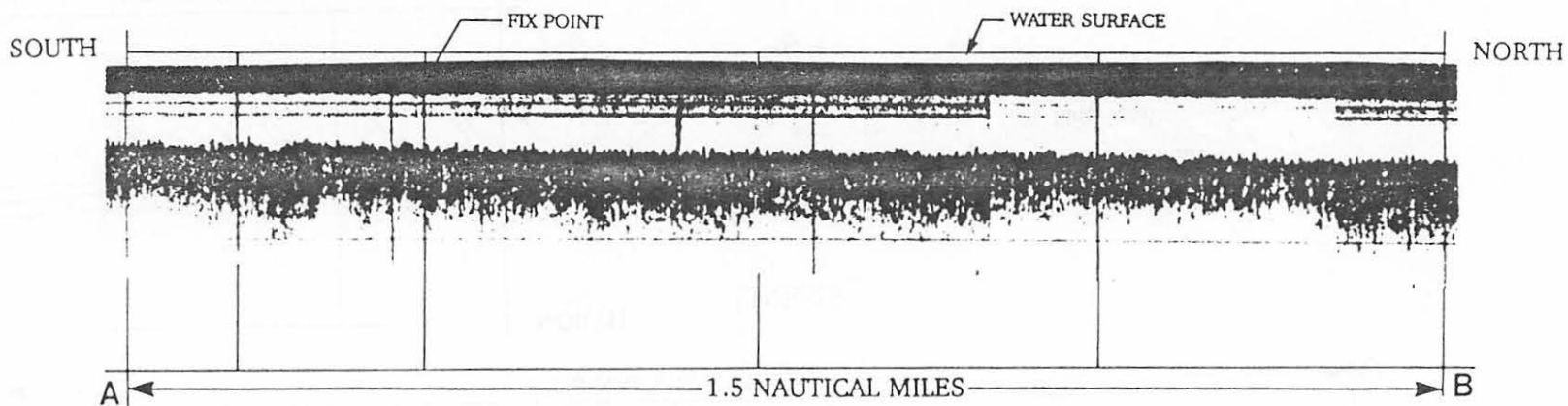
LINE 23



0  
2  
4  
6  
8  
10

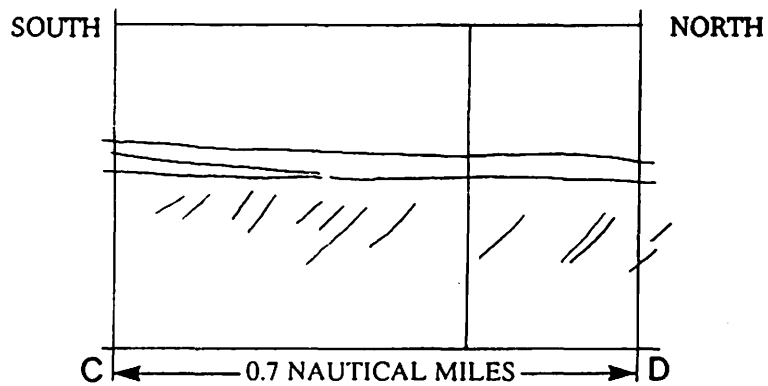
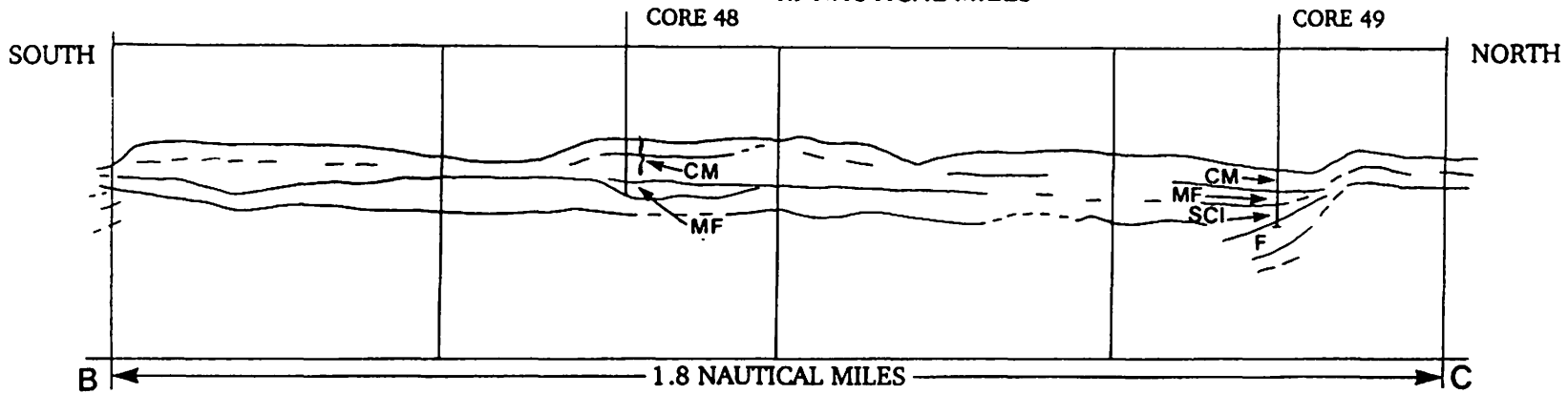
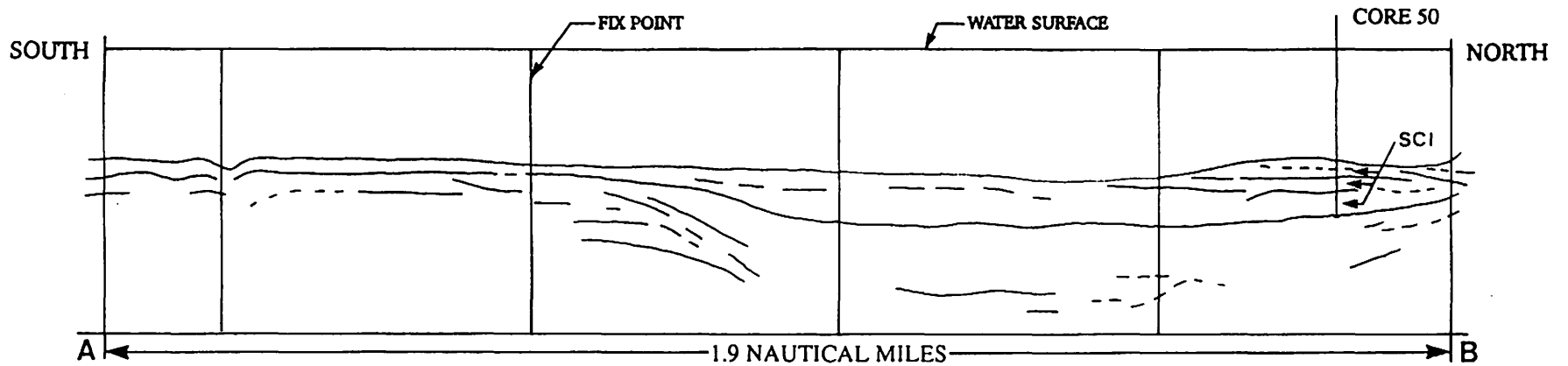
VERTICAL  
SCALE  
(meters)





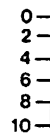
0  
2  
4  
6  
8  
10

VERTICAL  
SCALE  
(meters)

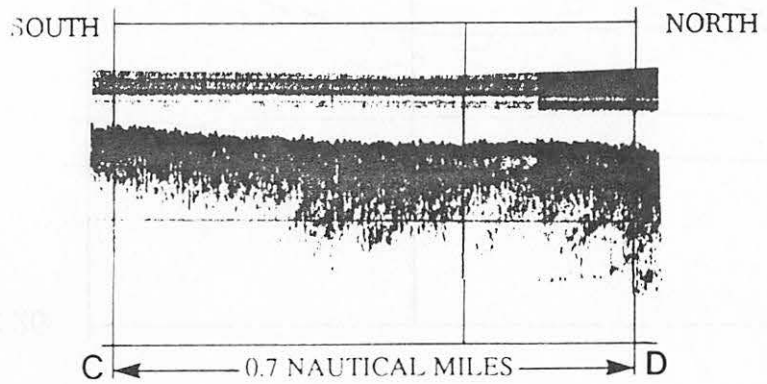
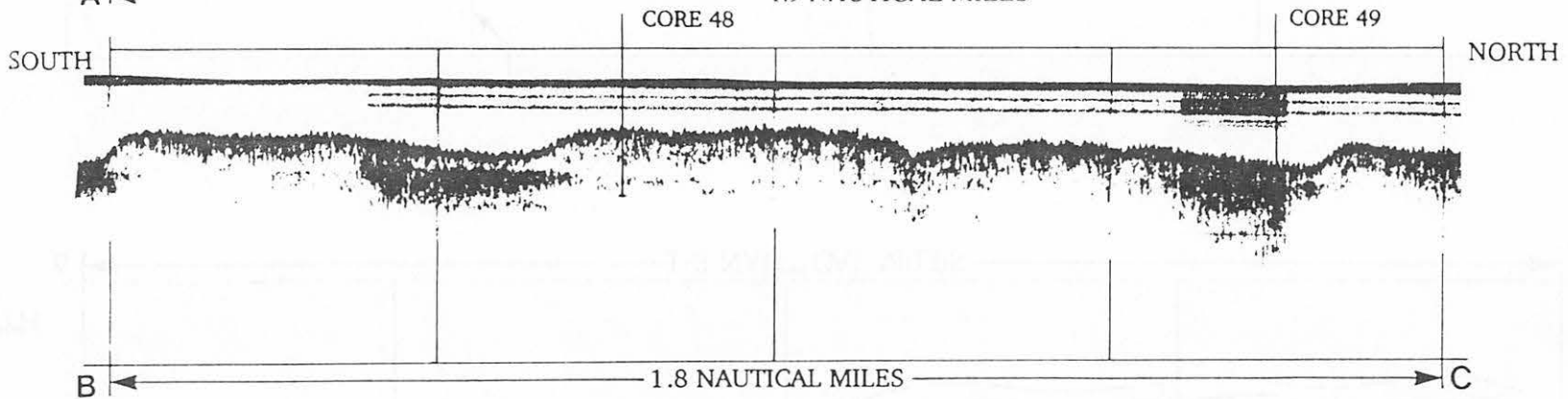
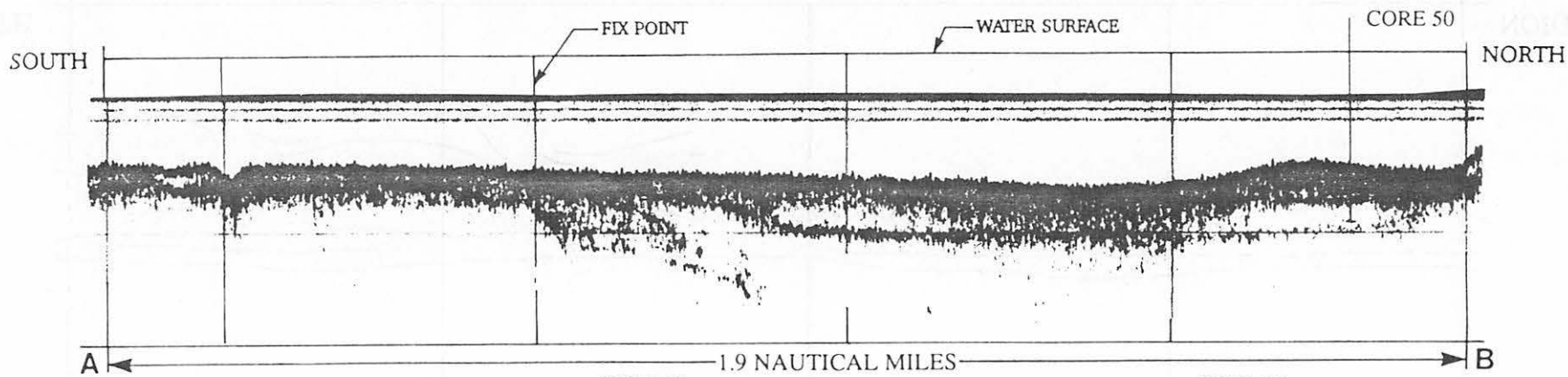


LINE 25

VERTICAL SCALE  
(meters)

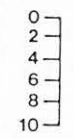


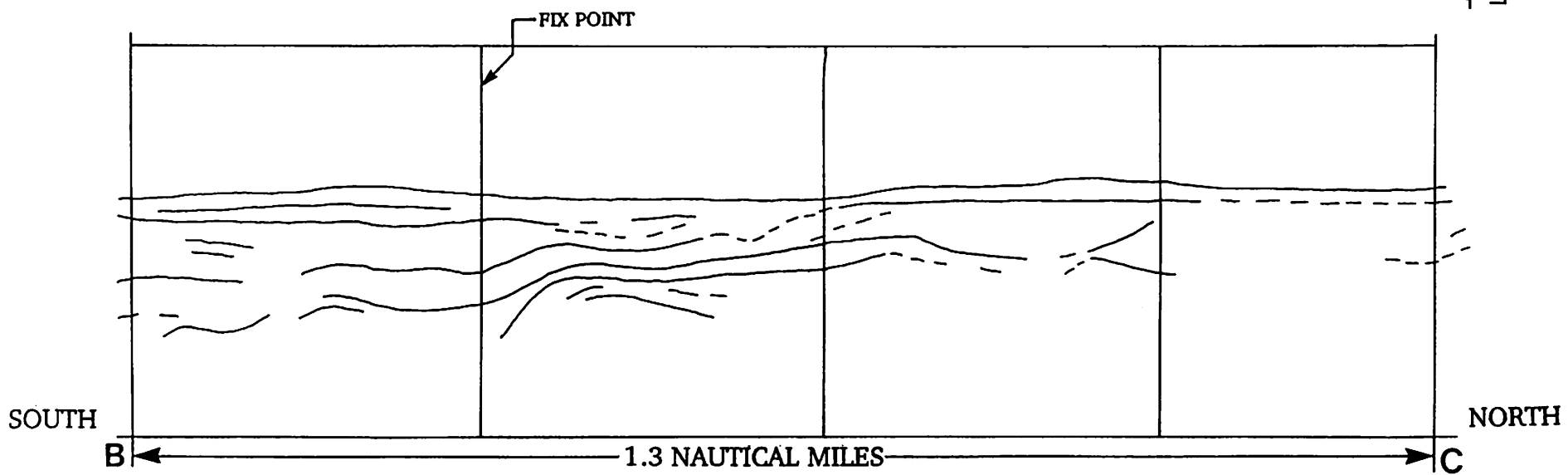
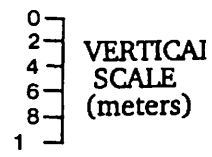
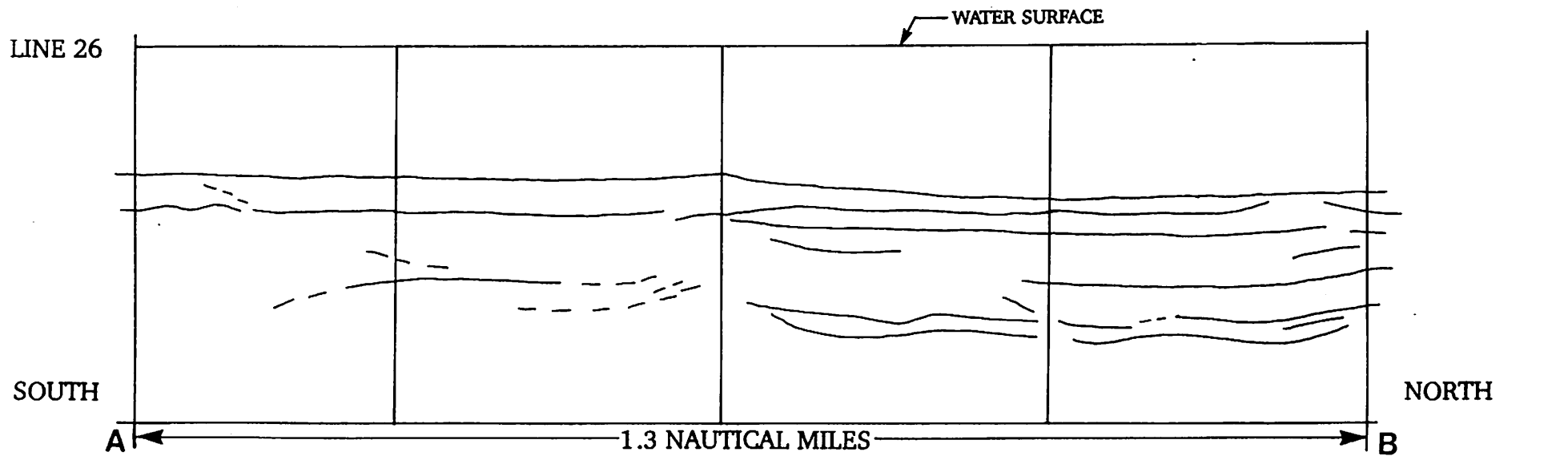
- CM - Cse-Med Sand
- MF - Med-Fine Sand
- F - Fine Sand
- SCI - Silty Clay

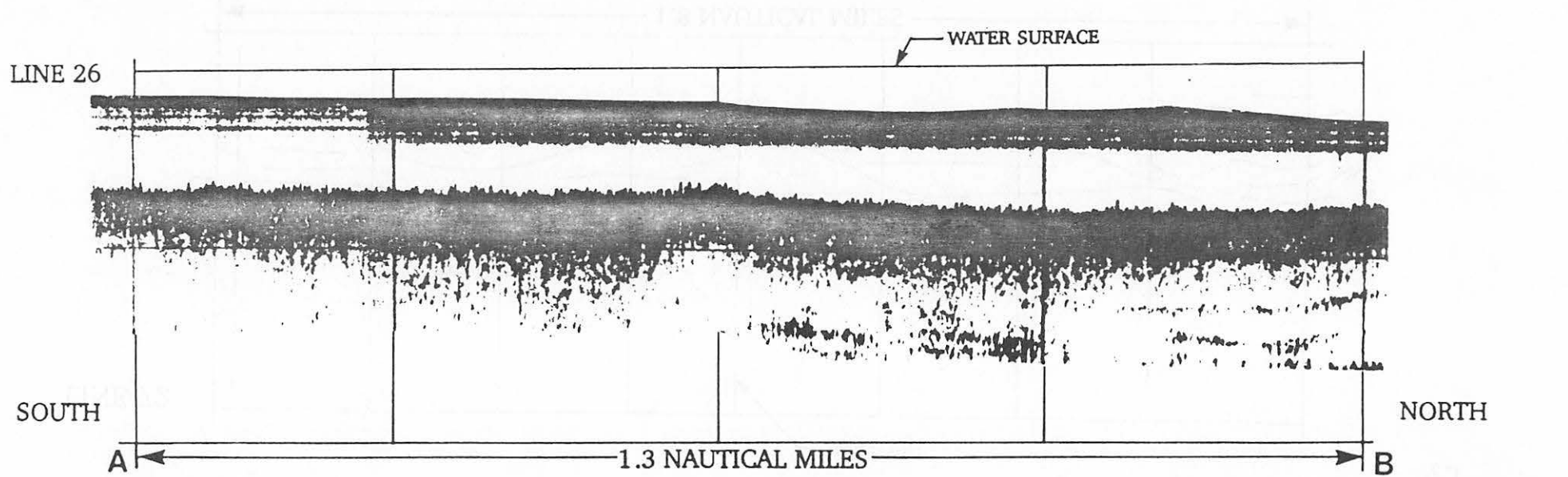


LINE 25

VERTICAL SCALE  
(meters)

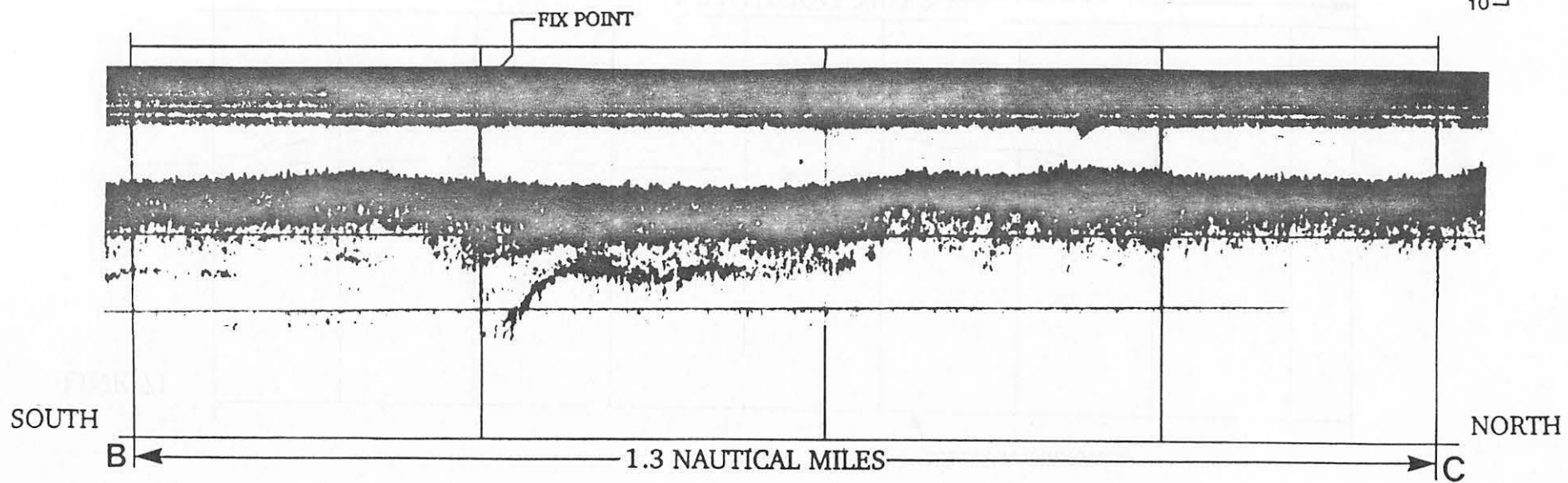




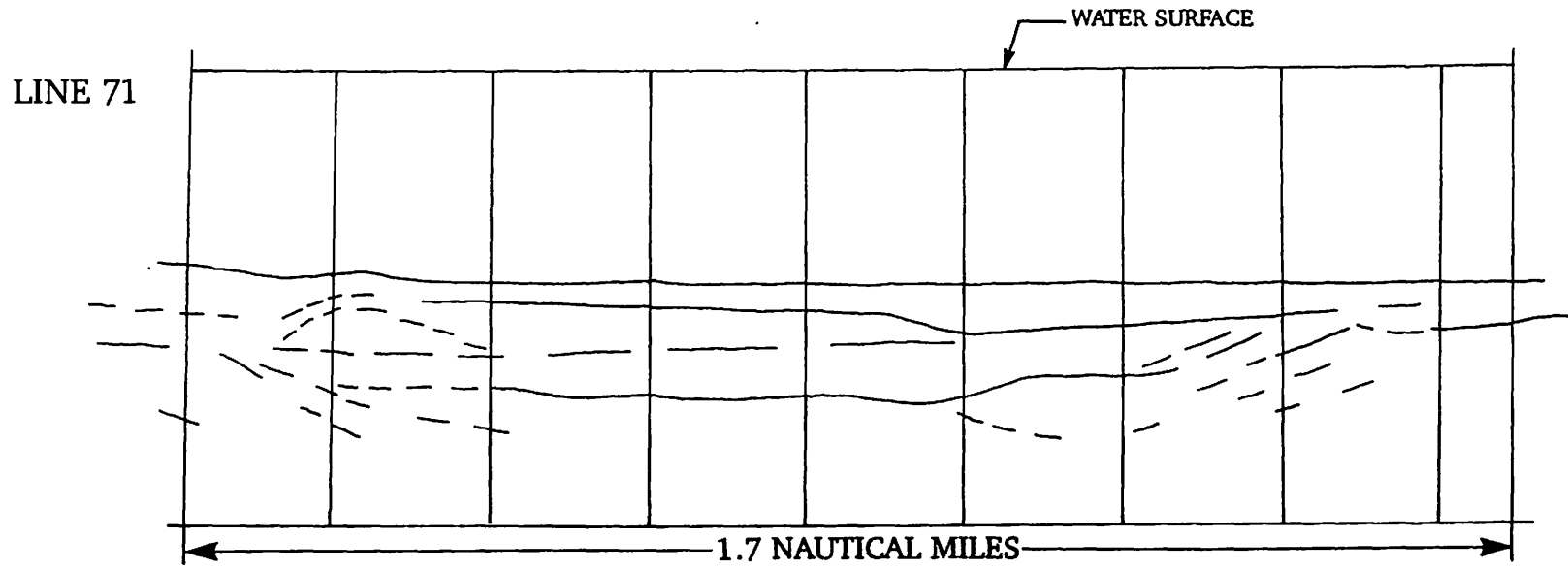


0  
2  
4  
6  
8  
10

VERTICAL  
SCALE  
(meters)

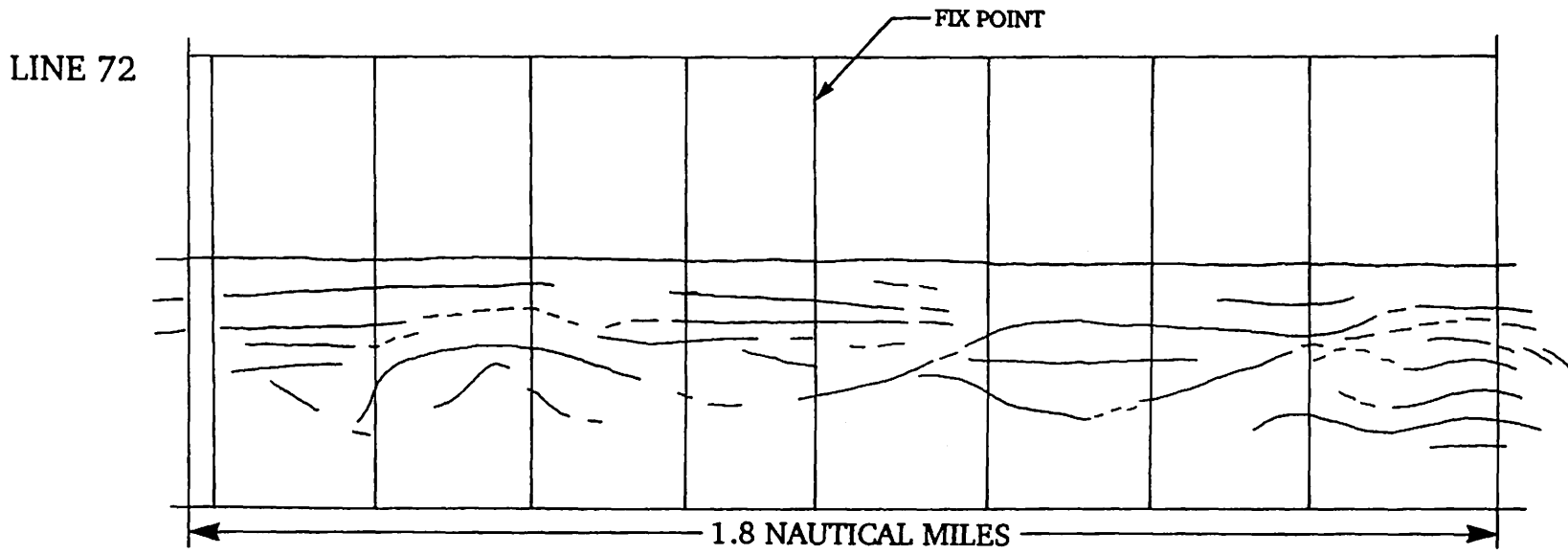
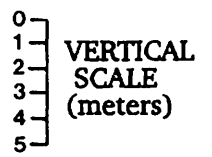


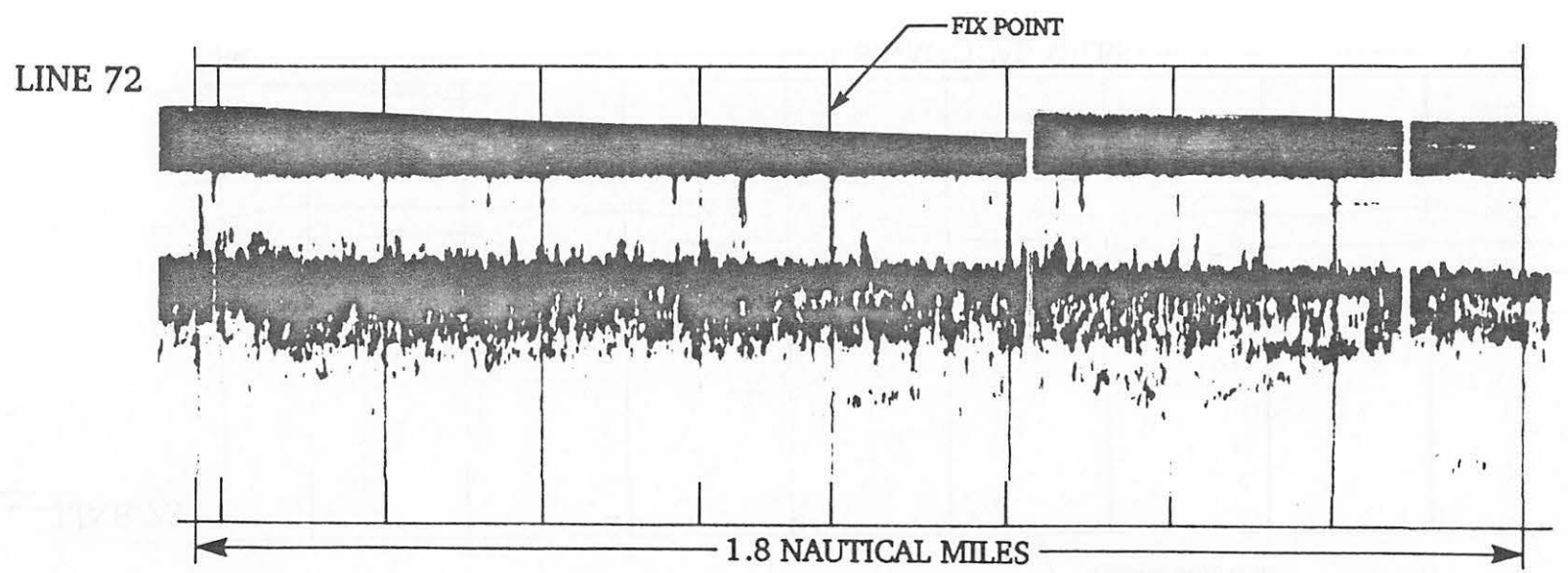
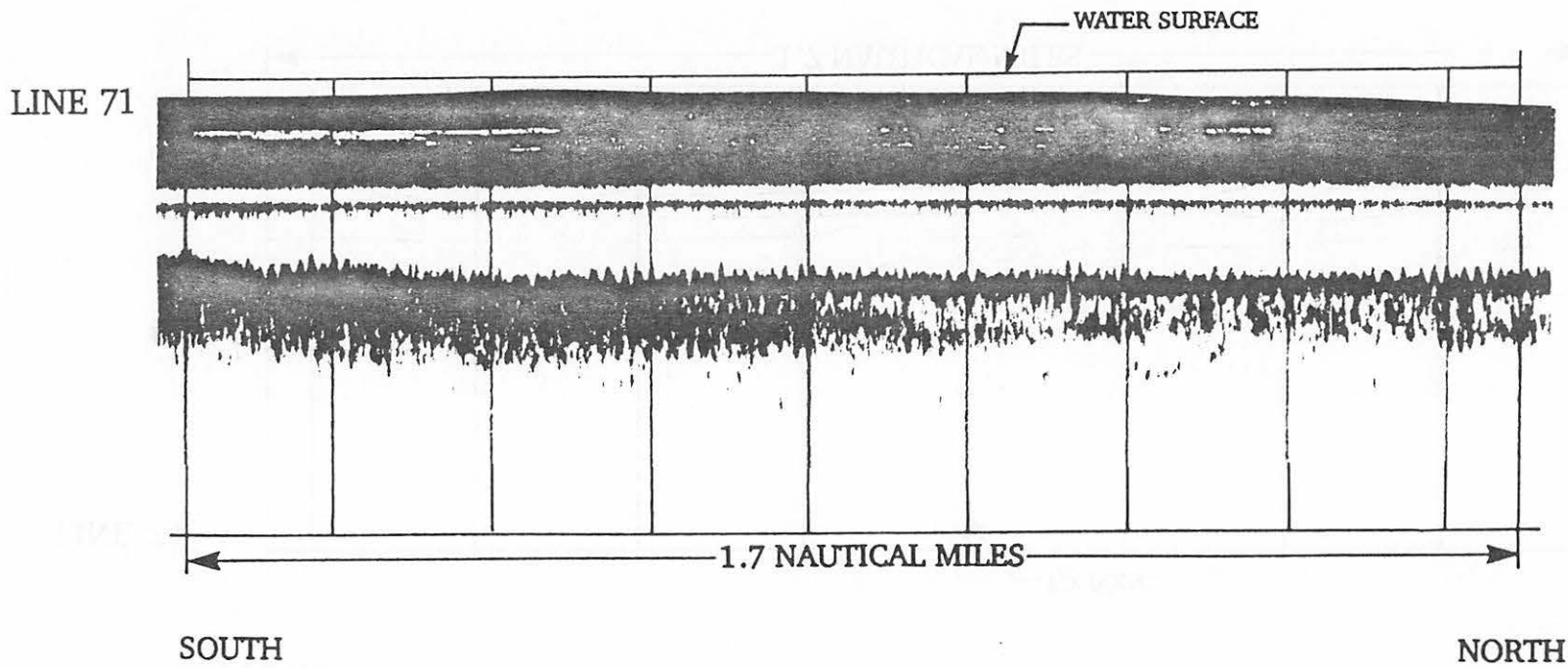




SOUTH

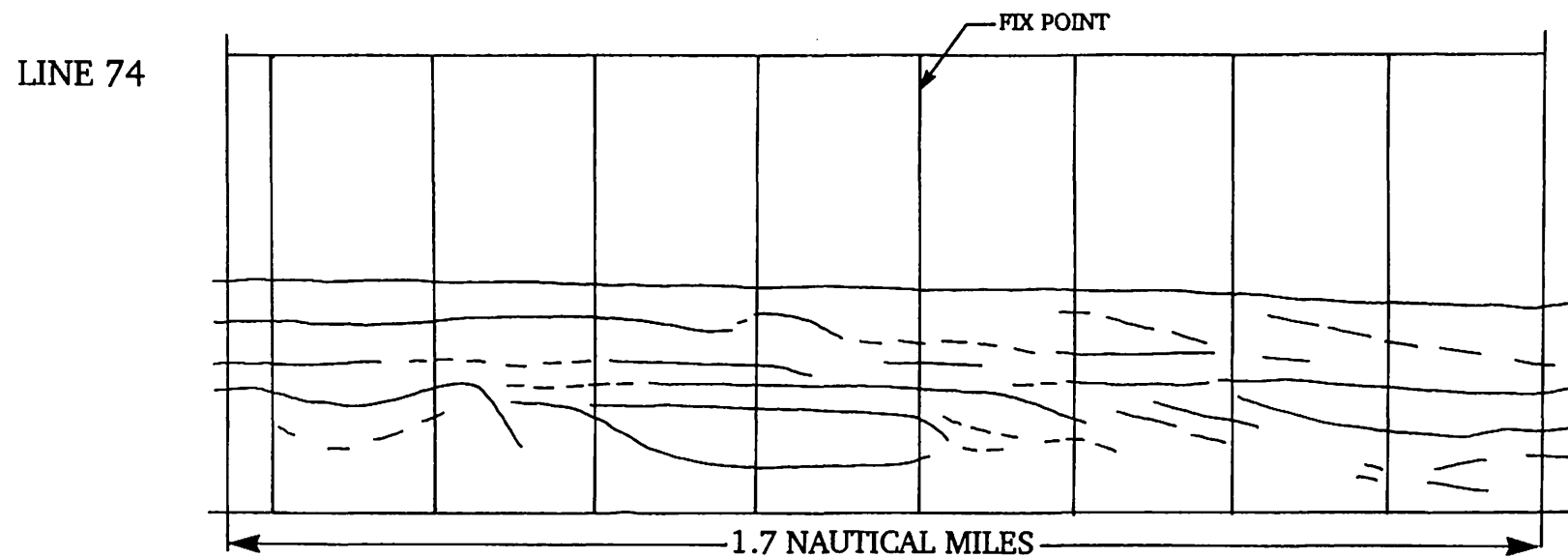
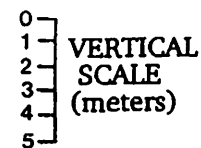
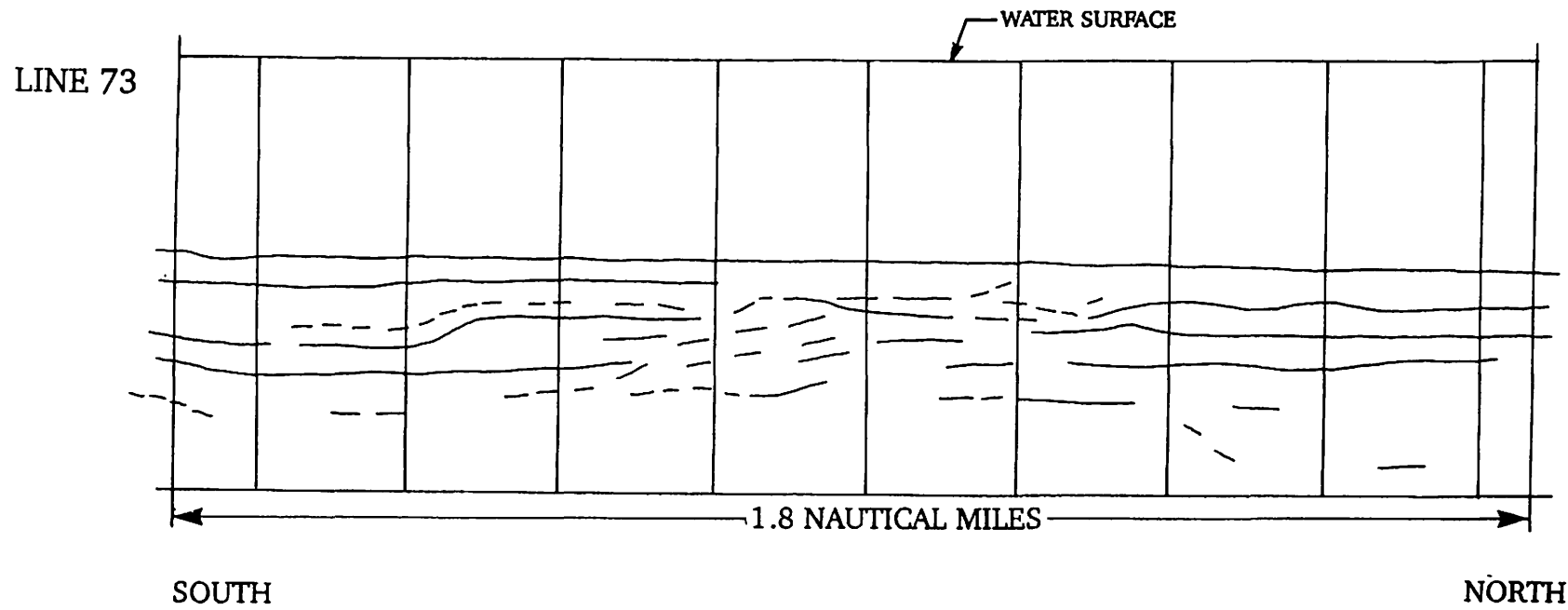
NORTH



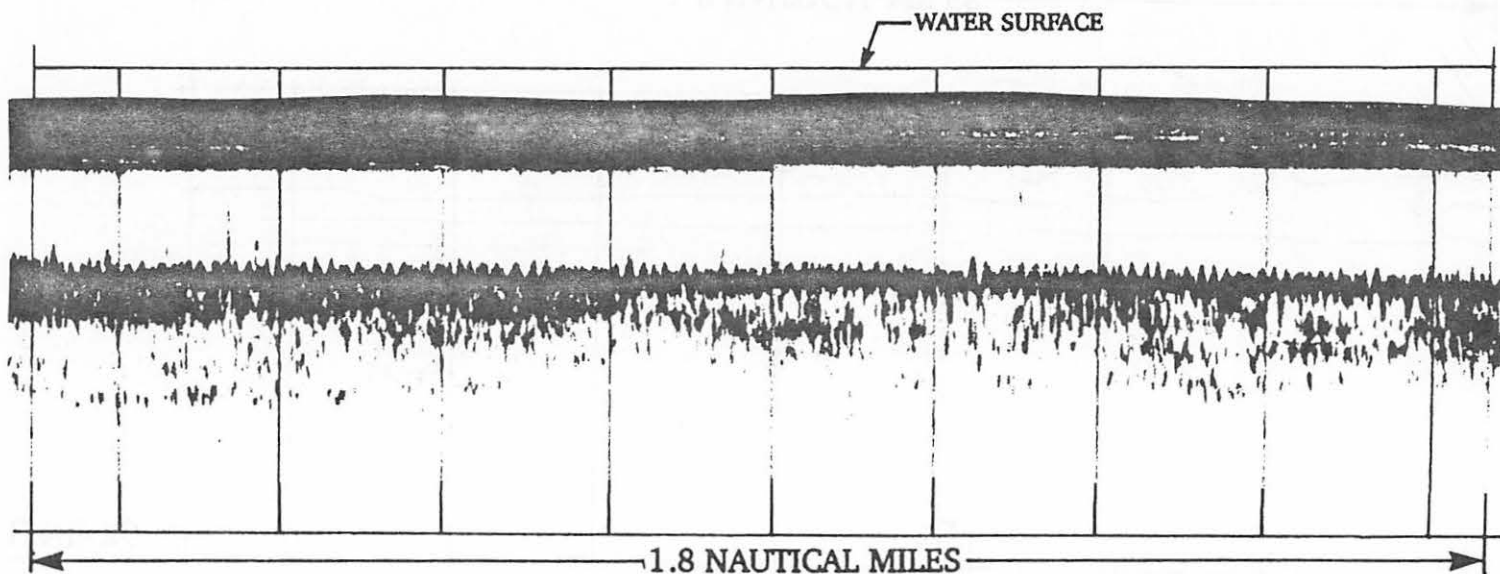


0  
1  
2  
3  
4  
5

VERTICAL  
SCALE  
(meters)



LINE 73

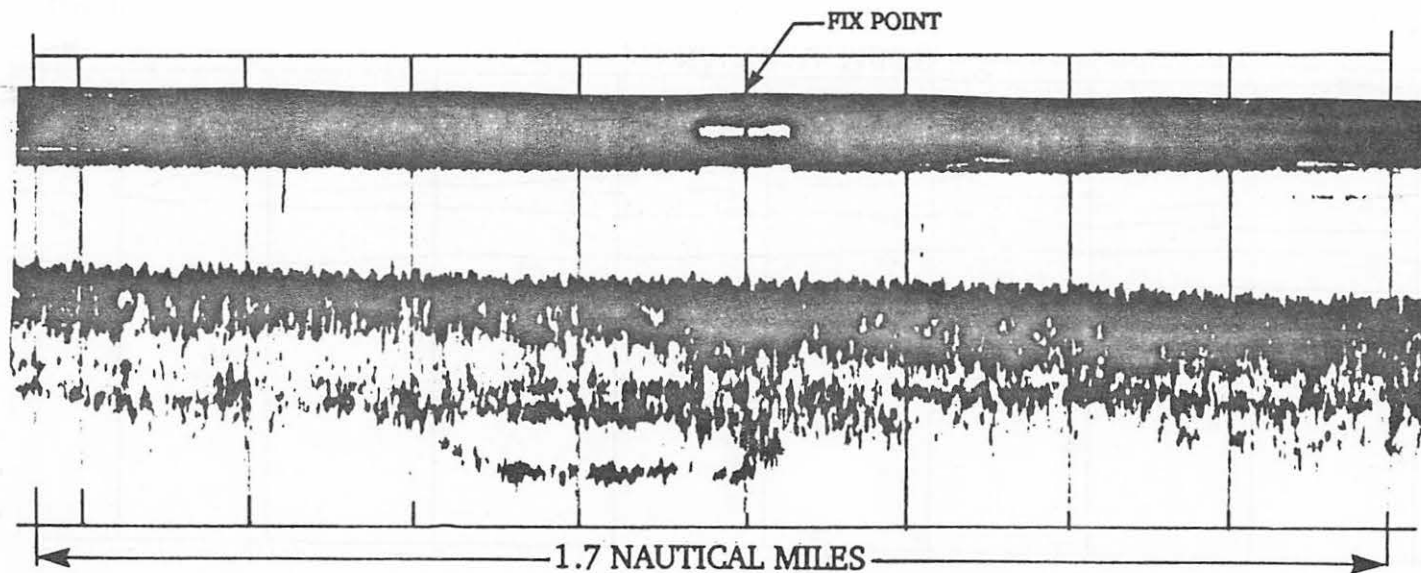


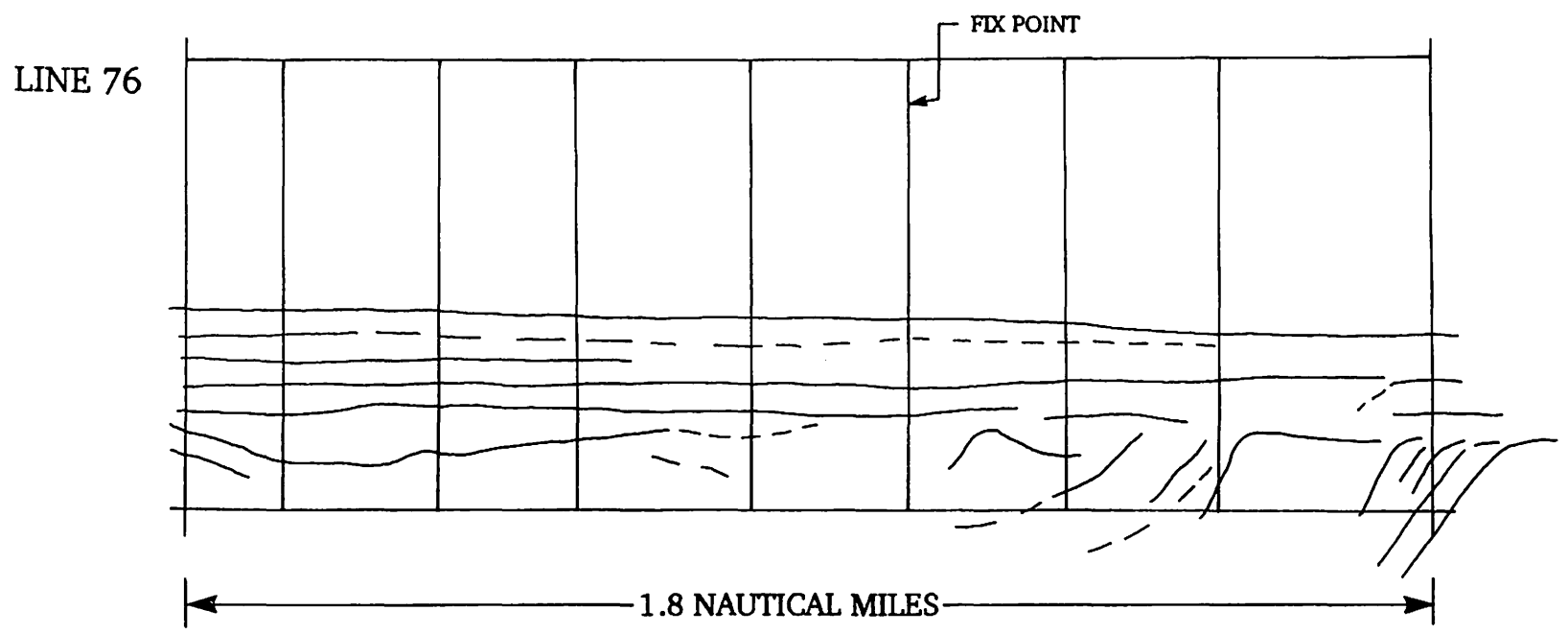
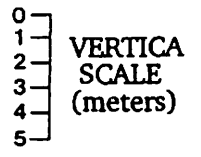
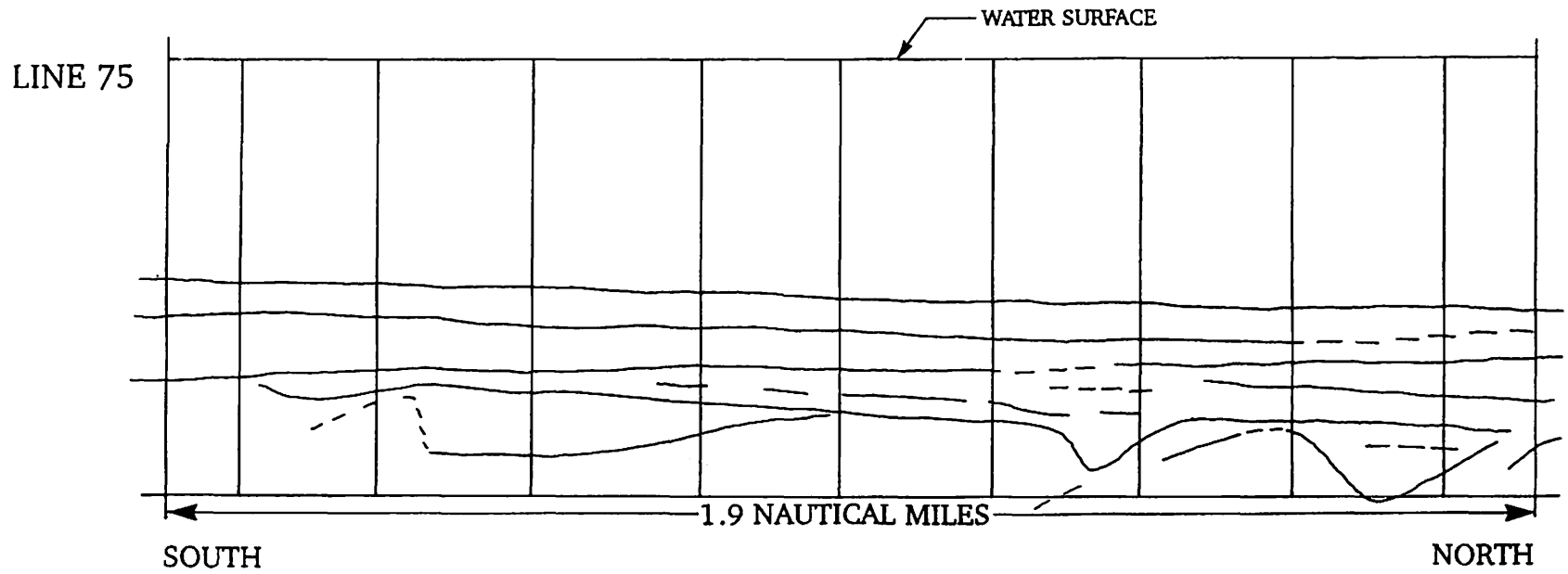
SOUTH

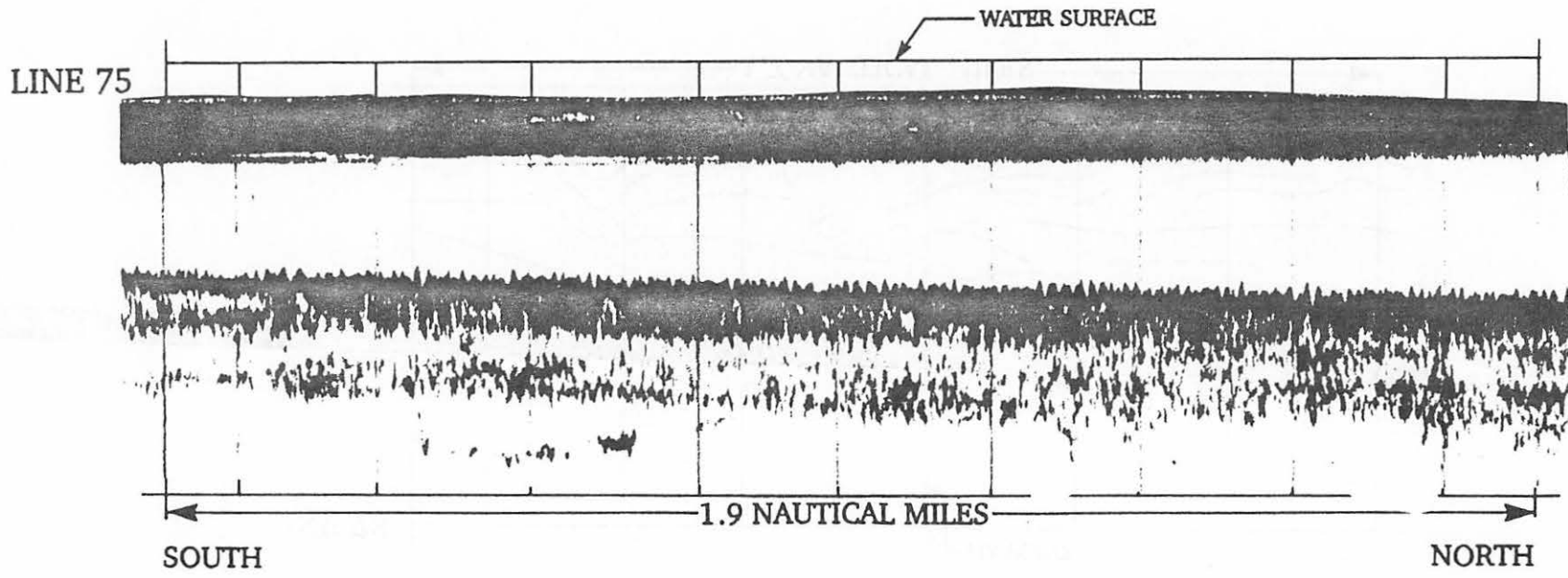
NORTH

0  
1  
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VERTICAL  
SCALE  
(meters)

LINE 74

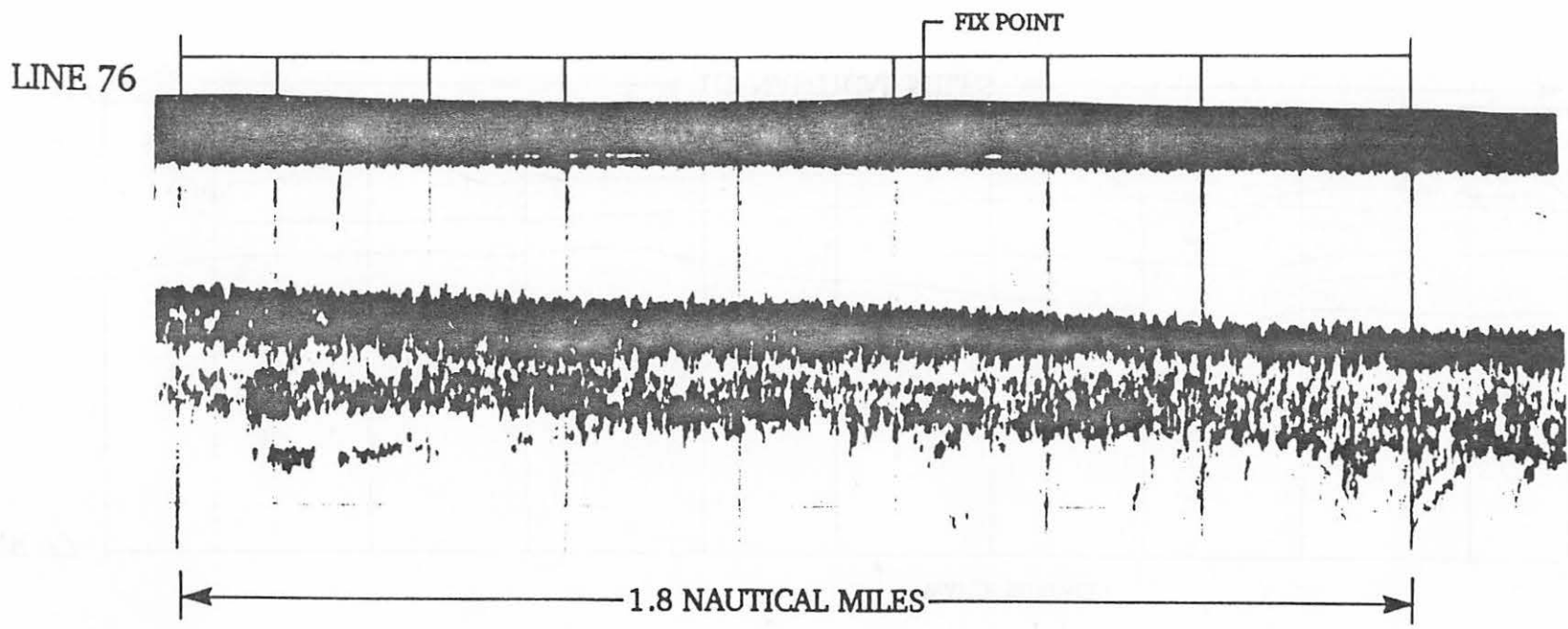


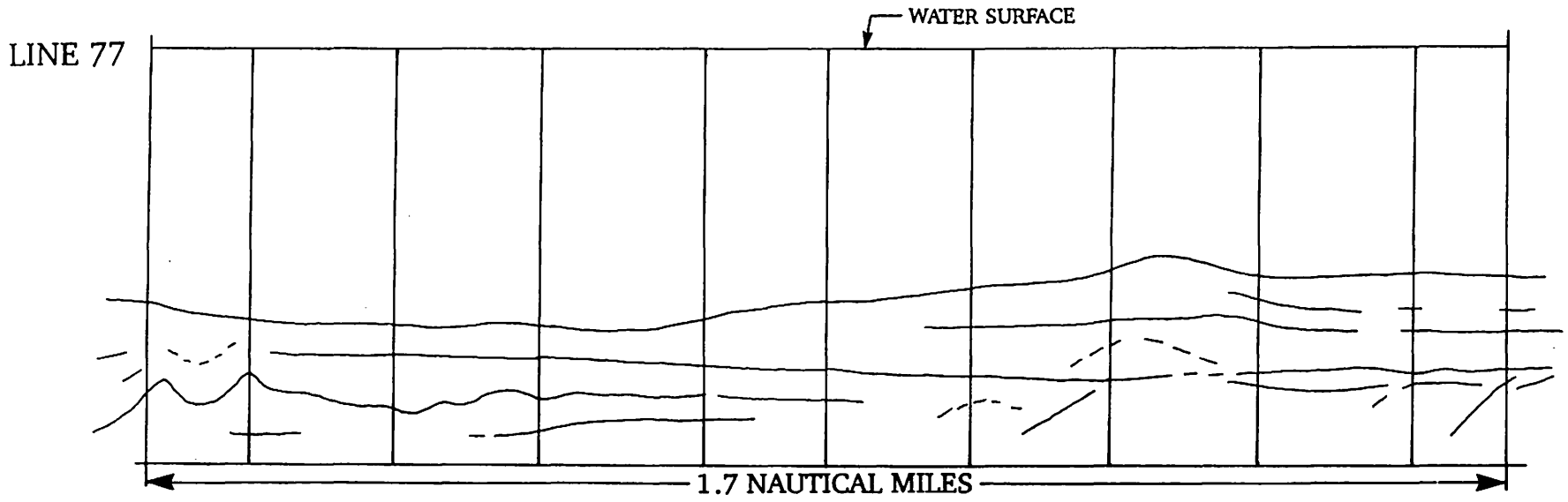




0  
1  
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3  
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5

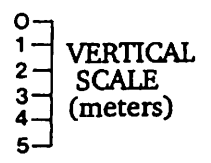
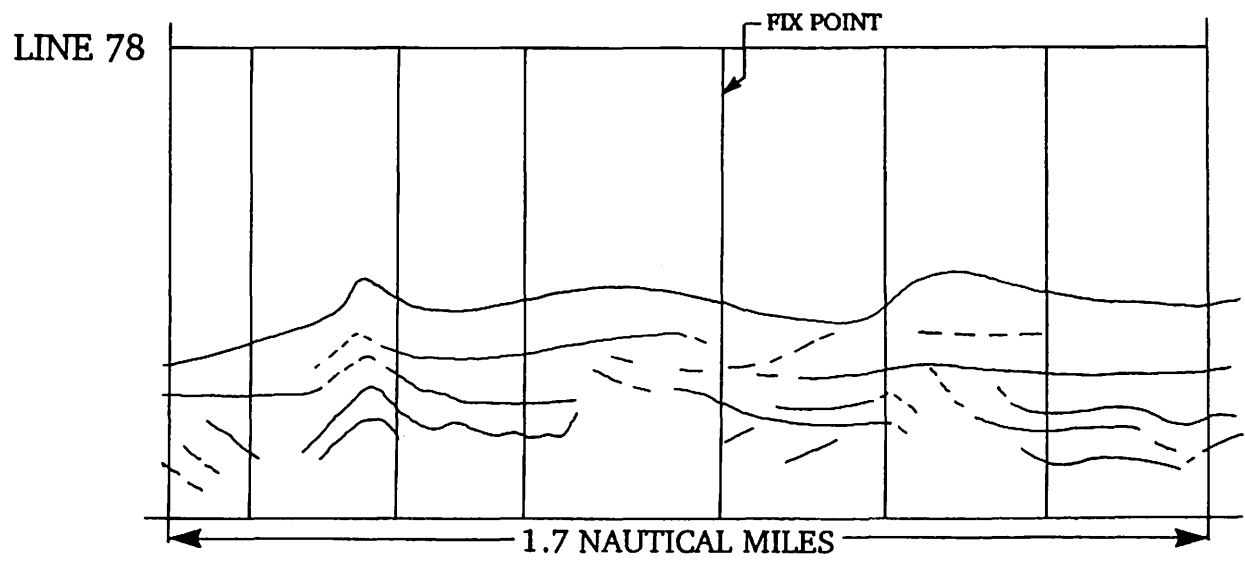
VERTICAL  
SCALE  
(meters)

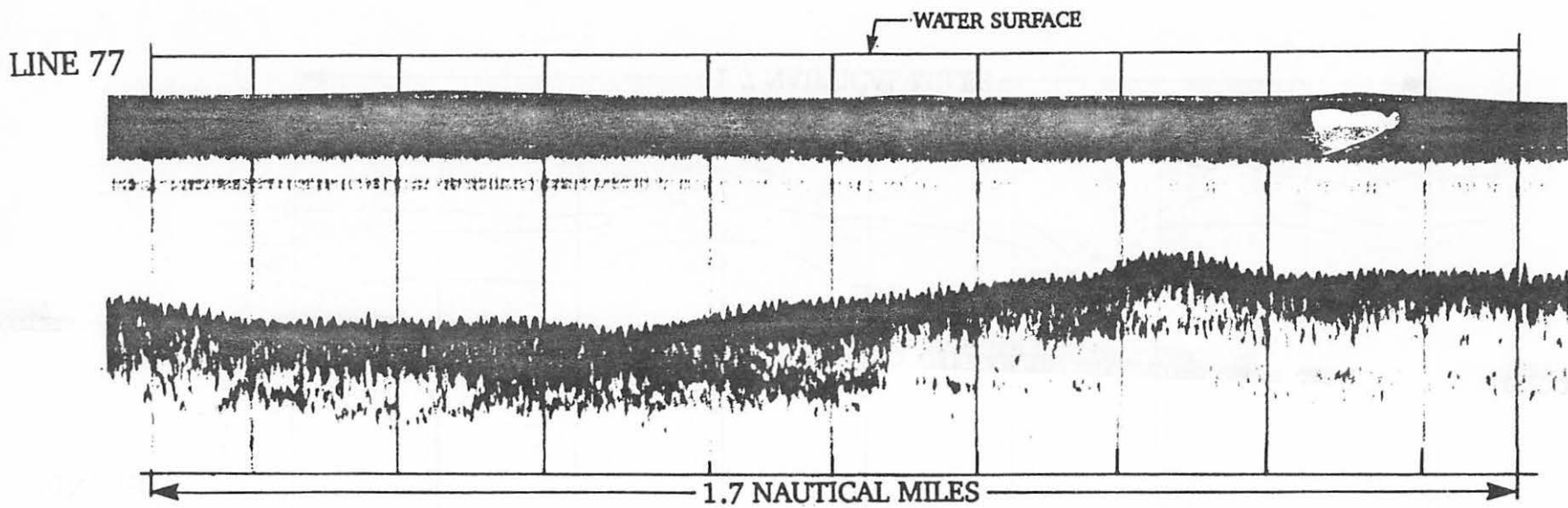




SOUTH

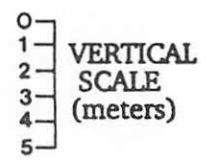
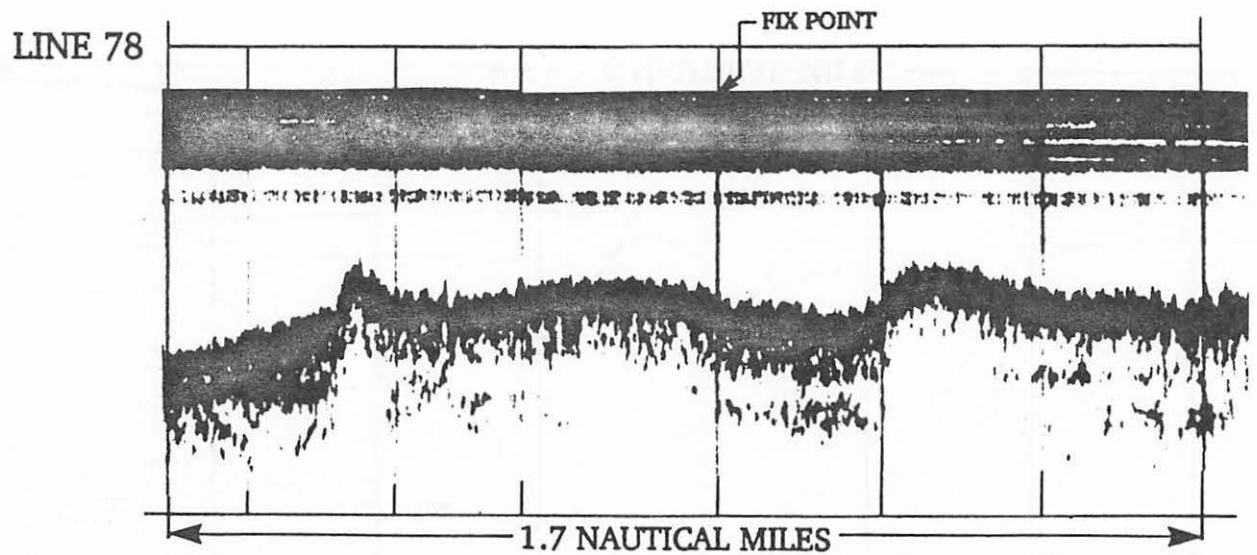
NORTH





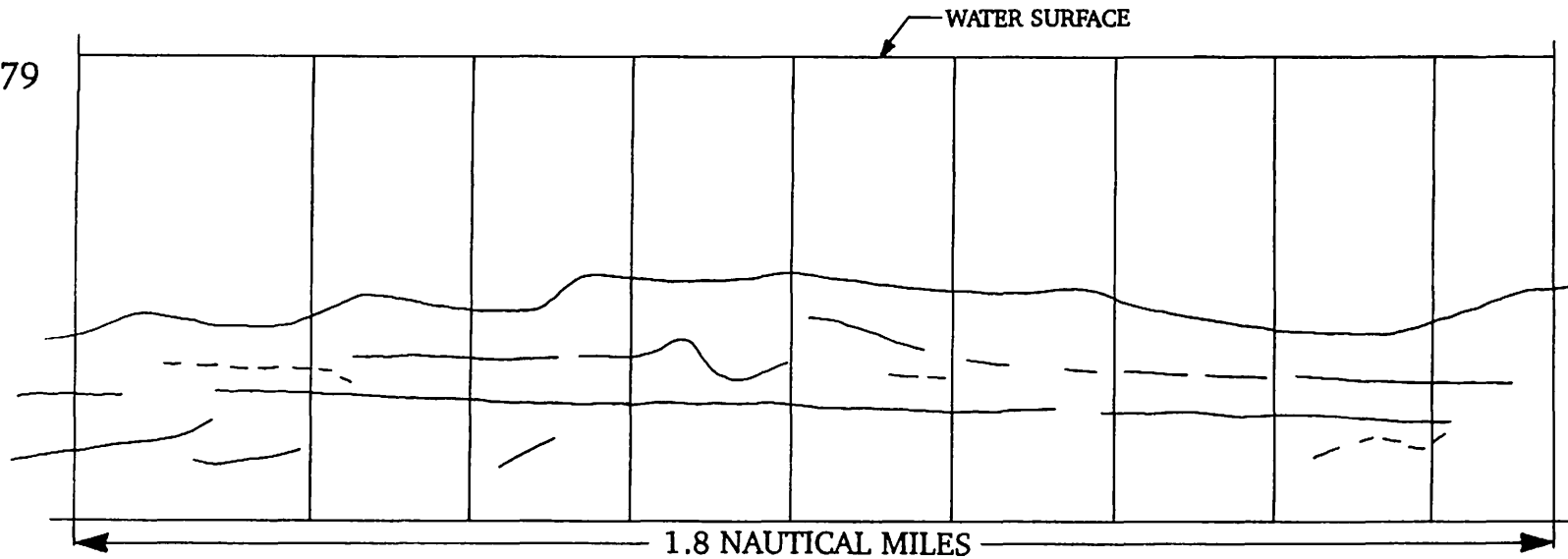
SOUTH

NORTH



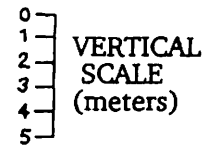


LINE 79

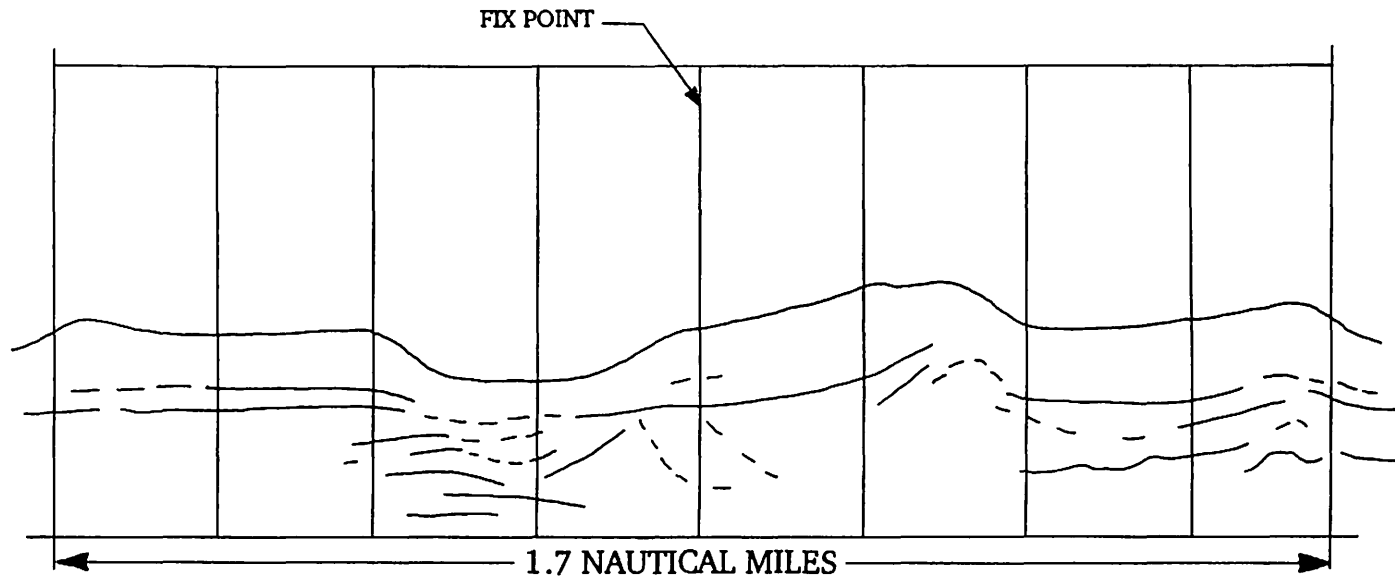


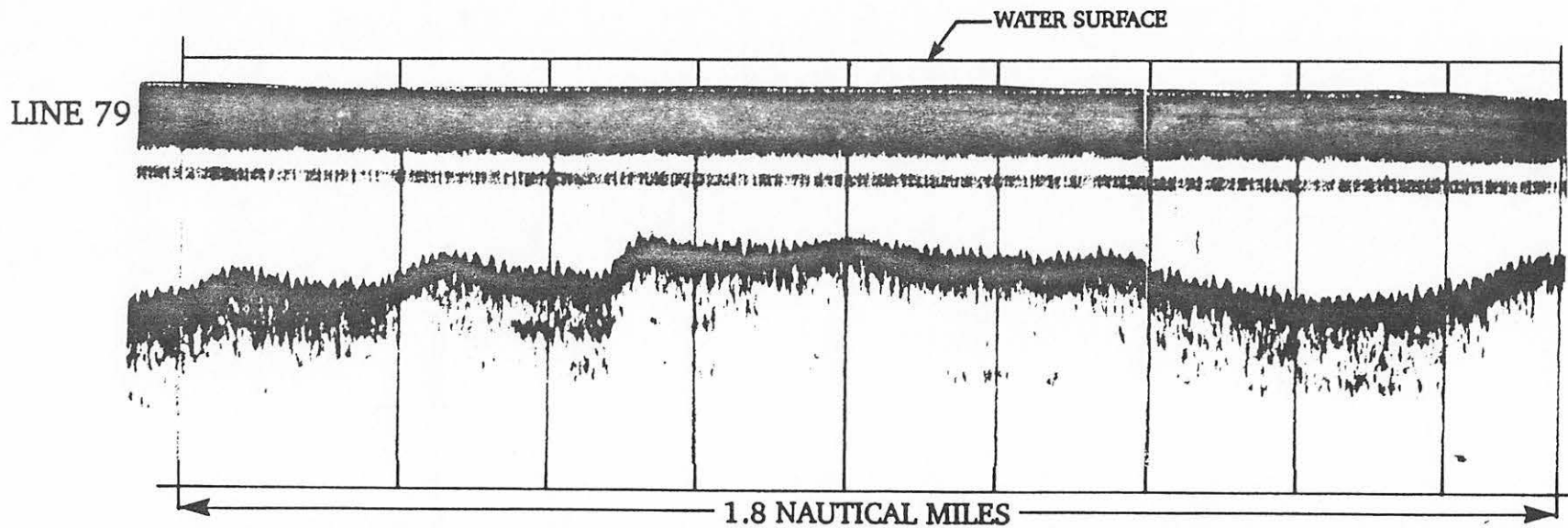
SOUTH

NORTH



LINE 80



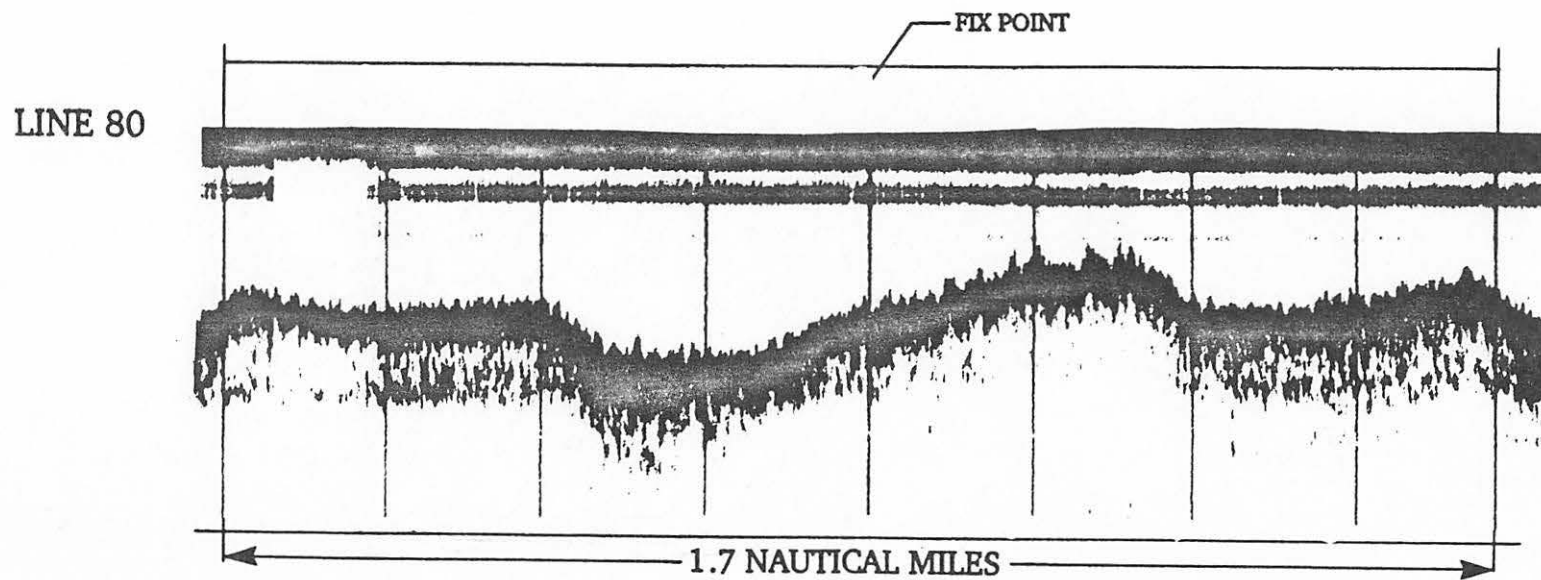


SOUTH

NORTH

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VERTICAL  
SCALE  
(meters)



VIMS  
TN  
939  
K55  
1989  
V.2

College of William and Mary  
School of Marine Science  
Virginia Institute of Marine Science

Geotechnical Evaluation of Sand Resources  
on the Inner Shelf of Southern Virginia

Volume II: Appendices C-E

Final Report  
to the  
City of Virginia Beach, Virginia

Prepared by  
Suzette M. Kimball  
James K. Dame

August 1989

## PREFACE

This volume contains sediment descriptions and statistical summaries from which conclusions listed in Volume 1 of this document were made. Cores were retrieved during the summer of 1987 through a contract with Ocean Seismic Survey Incorporated. Fifty cores were collected in an area encompassed by the Virginia/Maryland and Virginia/North Carolina state lines and extending approximately five nautical miles offshore. A pneumatic vibracore rig was employed with a maximum core length of 10 meters. Core locations are shown in the Preface figures. Only those cores retrieved from areas that directly impact this project are described herein (core numbers 19-21, 25-50). A full description of methodology and complete mineralogic analyses are contained in: Berquist, C.R., Jr., and C.H. Hobbs, III, 1988, Study of Economic Heavy Minerals of the Virginia Inner Continental Shelf; Open-File Report 88-4, Virginia Division of Mineral Resources, Charlottesville, Virginia. Copies may be obtained directly from the Virginia Division of Mineral Resources.

Appendix C reproduces the descriptive logs for each core, including depths from which samples were extracted for grain-size analysis. Appendices D and E contain tabular and graphic representations of the textural analysis as produced through Rapid Sediment Analyzer (RSA) methodologies. All cores, samples, and statistical details are archived at the College of William and Mary, Virginia Institute of Marine Science, and are available for viewing.

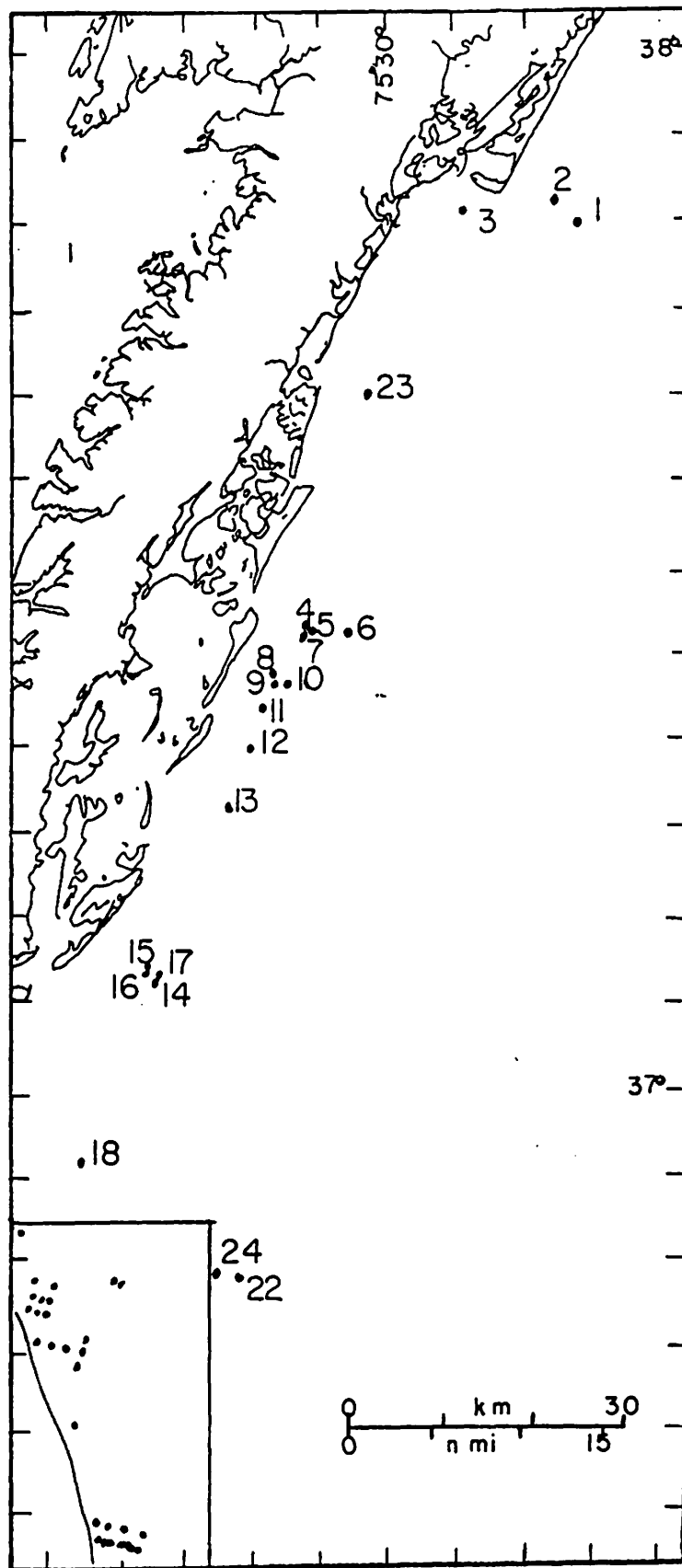


Figure 1. Location of cores taken during the summer of 1987 (from Berquist and Hobbs, 1988).

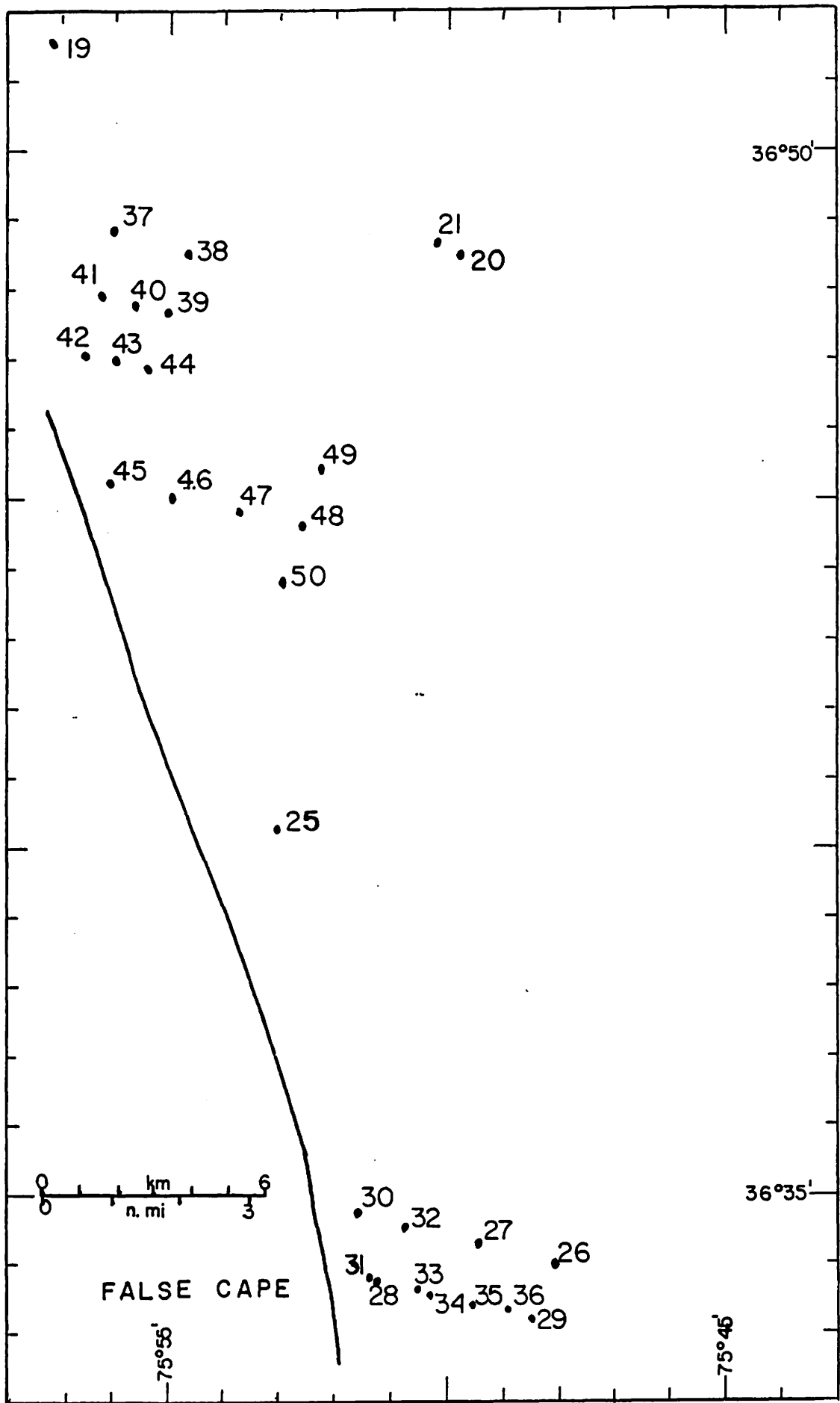


Figure 2. Location of cores taken within the study area during the summer of 1987 (from Berquist and Hobbs, 1988).

CORE LOG

CORE I.D.: 19 R 1 PROJECT: ST MINS, V. BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 51.53 LONG. 75 57.15 LORAN 271550.0, 41229.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: VIRGINIA BEACH  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FT  
 LOGGED BY: S. DYDAK, B. DAME, H. EVANS DATE: AUG 20, 87  
 WATER DEPTH: 27 FT PENETRATION: 15.5 FT RECOVERY: 6'3"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1		.	micaceous f to vf sand w/lightly	1	
		.	scat 1-2mm shell frags		
2	-0.5	.	2.5Y 4/0 dark gray	2	-0.5
3		19-1		3	
	-1	8-1			-1
4		.		4	
5	1.5	.		5	1.5
		8-2	grades into slty f sand		
6		8-3	mica slty f to cs sand + grv w/	6	
	-2		3cm shell frags		-2
7				7	
8	2.5			8	2.5
9				9	
10	-3			10	-3
11				11	
	3.5				3.5
12				12	
13				13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 19 R 2 PROJECT: ST MINS, V BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: S. DYDAK, B. DAME, H. EVANS DATE: AUG 20, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			mica f to vf sand, scat shell	1	
			frags up to 6 cm 0.15-0.25 m		
			5Y 4/1 dk gray		
2	-0.5			2	-0.5
		19-2			
3				3	
	-1		shell frags to 1 cm common		-1
4			1cm lyr shell frags to 6cm	4	
			1m sand w/some f sand		
5	1.5		5Y 6/1 lt gray	5	1.5
			pod of f to m sand, slightly slty		
6				6	
	-2				-2
7			JETTED TO 6.0 FEET	7	
			VIBRATED TO 16 FEET		
8	2.5		RECOVERED 5'3"	8	2.5
			CORE COVERS INTERVAL 6 TO 11'3"		
9				9	
10	-3			10	-3
11				11	
	-3.5				-3.5
12				12	
13				13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6



CORE LOG

CORE I.D.: 19 R 3 PROJECT: ST MINS, V BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: S. DYDAK, H. EVANS DATE: AUG 20, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1		.	m sand w/some f sand	1	
		.	sidely scat grv to 5 cm		
		.	shl frg to 4 cm		
2	-0.5	.		2	-0.5
		19-3	scat 1 cm mud clasts		
3		*-1	lg grv at 1.85	3	
		.			
4		.		4	
		.			
5	1.5	.		5	1.5
		.			
6		*-2	f sand some silty f sand	6	
		.			
7				7	
			JETED TO 11 FEET		
			VIBRATED TO 19		
			RECOVERED 6'11"		
			CORE COVERS INTERVAL 11' TO 17'11"		
8	2.5			8	2.5
9				9	
10	-3			10	-3
11				11	
12	3.5			12	3.5
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 20\_R\_1 PROJECT: ST MINS, VA BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 48.50 LONG. 75 49.81 LORAN 27120.1 , 41210.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: VIRGINIA BEACH  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FT  
 LOGGED BY: S. DYDAK, H. EVANS, B. DAME DATE: AUG 20, 87  
 WATER DEPTH: 53 FEET PENETRATION: 19.8 RECOVERY: 8'4"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			cs sand w/some f sand & scat shl		
			frqs <3cm, 5Y 3/2 dk olive gray		
			slty slty congl cobble in f-m sand		
			and rounded grv w shell frags		
0.5			shly f sand w/slty sand pods and		0.5
			grvly shl hash, shls 1-2cm 5Y 4/1		
1		20-1	shly frgs in slty clay w f-m sand		1
			slightly slty clay w/<1cm lenses		
			of f sand & grvl, some mica		
1.5			5Y 4/1 dk gray		1.5
			thin lyr black cly silt		
			thin lyr black cly silt		
2					2
2.5			mica f sand w/slty clay lyrs <.5cm		2.5
3					3
3.5					3.5
4					4
4.5					4.5
5					5
5.5					5.5
6					6

LOST PART OF SAMPLE  
 INVERTED RETAINER

CORE LOG

CORE I.D.: 20 R 2 PROJECT: ST MINS, V BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: S. DYDAK, H. EVANS, B. DAME DATE: AUG 20, 87  
 WATER DEPTH: 53 FT PENETRATION: 19.8 RECOVERY: 16.7

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m-cs sand w/some shl frags <6cm rounded grv <2cm increasing down, 2.5Y 4/2 dk grayish brown	1	
2	-0.5			2	-0.5
		20-2	cbl alt w/silt lyrs, occ peb and shl f sand w/abnd shell frgs, 2mm & some rounded grv 5Y 4/1		
3			\sdy shl hash frags < 3cm	3	
4	-1		f sd w/silt; mica slty clay w/ f sand lams ~1mm; xbds f slty sand	4	-1
5	1.5			5	1.5
6			alt beds mica slty clay and f sand	6	
7	-2			7	-2
		20-3			
8	2.5			8	2.5
9				9	
10	-3			10	-3
11			sandy layers begin to range in thickness from <1mm to 8cm	11	
12	3.5			12	3.5
		20-4			
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 21 PROJECT: ST MINS, VA BEACH SD  
 DATE: JULY 30, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 48.66 LONG. 75 50.24 LORAN 27122.0, 41210.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: VIRGINIA BEACH  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FEET  
 LOGGED BY: L. CALLIARI, H. EVANS DATE: AUG 24, 87  
 WATER DEPTH: 50 PENETRATION: 8.3 RECOVERY: 7'3"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			cs sand w/few scat shell frags	1	
			5Y 5/2 olive gray		
2	-0.5		gravel and cs sand w/lots of bio-	2	-0.5
			detritus, bivalves up to 10cm		
3		21	qtz shelly sand 5Y 5/2	3	
4	-1		plastic slty clay w/some	4	-1
			cs sand near top		
5	1.5		5Y 4/1 gray	5	1.5
6				6	
7	-2			7	-2
8	2.5			8	2.5
9				9	
10	-3			10	-3
11				11	
12	3.5			12	3.5
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 25 PROJECT: ST MINS, VA BEACH SD  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 40.26 LONG. 75 53.18 LORAN 27119.8, 41009.6  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: WASH FLATS  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: L. CALLIARI, B. DAME DATE: SEPT 10, 87  
 WATER DEPTH: 33 FT PENETRATION: 13.2 RECOVERY: 14.5

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			slty clay, 0.03-0.12m v slty m	1	
			sand w/scat shell frgs		
2	-0.5	25-1	0.16-0.22 v slty m sand, 0.5-0.52 2cm shell frgs,	2	-0.5
3			slty m sand 5y 4/1 dk gray	3	
4	-1		-----	4	-1
			slty m sand w/scat shell frgs		
5	1.5		1.31-1.33m v slty m-f sand w/clay v cs sand w/ shell frgs becomes	5	1.5
			-----slty toward bottom-----		
6	-2		slty clay 5Y 5/1 gray   slty f sand	6	
			m sand 5Y 5/1		
7		25-2	grades to cs sand	7	
8	2.5		slty clay / cs sand w/5cm cobble	8	2.5
9			slty clay & f-vf sand 3cm lams 5Y 4/1	9	
10	-3		-----	10	-3
11			v cs sand w/grvl and 8cm shl frgs	11	
12	3.5		5Y 4/1 dk gray	12	3.5
13		25-3	-----slty clay lens	13	
14	-4		cs - m sand 5Y 5/1 gray	14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 26 PROJECT: ST MINS, VA BEACH SD  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.97 LONG. 75 48.14 LORAN 27089.6 , 41049.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: L. CALLIARI, B. DAME DATE: SEPT 15, 87  
 WATER DEPTH: 47 FEET PENETRATION: 19.8 RECOVERY: 16'9"

DEPTH	SAMP #	DESCRIPTION	DEPTH
ft   m		f to vf micaceous sand	ft   m
1			1
2   -0.5	26-1		2   -0.5
3			3
4   -1		1.1-1.14m f sand w/shell hash	4   -1
5		/\ 5Y 5/2 olive gray	5
6   1.5		\ / 5Y 4/1 dk gray	6   1.5
7		1.2-1.25m, 1cm f slty sand lams	7
8		1.26-1.28m f sand w/shell hash	8
9   -2		1.6-1.64m slty clay	9   -2
10		1.91-1.96 scat shell frgs to 6cm	10
11   2.5		2.04-2.07 conc shell frags to 2 cm	11   2.5
12	26-2	2.4-2.53 m sand w/shl frgs & clay	12
13		balls to 2 cm	13
14		v f slty sand	14
15   -3		2.69-2.85 slty clay pod	15   -3
16		3.25-3.28 slty clay	16
17		3.37-3.40 slty clay	17
18   3.5		slty clay w/1cm lams of slty f sand	18   3.5
19		3.43-3.6m 5Y 3/1 v dk gray	19
20		\ / 3.6m 5Y 4/1 dk gray	20
21   -4	26-3		21   -4
22		slty f sand w/slty clay lams	22
23   -4.5		1-10cm thick	23   -4.5
24		various shell beds	24
25   -5			25   -5
26			26
27   -5.5			27   -5.5
28			28
29   -6			29   -6

CORE LOG

CORE I.D.: 27 PROJECT: ST MINS, VA BEACH SD  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 34.26 LONG. 75 49.56 LORAN 27095.7, 41050.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FEET  
 LOGGED BY: L. CALLIARI, B. DAME DATE: SEPT 16, 87  
 WATER DEPTH: 45 PENETRATION: 15.7 RECOVERY: 17

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
		27-1	cs-v cs sand w/scat shell 5Y 4/1		
1			mica f sand /silty clay lam	1	
			cs-m sand, shell hash layers		
2	-0.5	27-1	v f micaceous sand w/scat shell	2	-0.5
			---shly m-cs sand		
3			silty clay --silty sand	3	
	-1		---silty sand		-1
4				4	
			2.5Y 4/1 dk gray		
5	1.5		--sand	5	1.5
6				6	
	-2				-2
7				7	
8	2.5	27-2		8	2.5
9				9	
10	-3			10	-3
11				11	
	3.5				3.5
12				12	
13				13	
	-4				-4
14		27-3		14	
15	-4.5		-----sdy silt w/f sand -----	15	-4.5
16				16	
	-5		-----		-5
17			grvl (7cm) to cs sand-----	17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 28 PROJECT: ST MINS, VA BEACH SD  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.73 LONG. 75 51.41 LORAN 27102.2, 41039.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: L. CALLIARI, B. DAME, OZALPASAN DATE: SEPT 16,  
87  
 WATER DEPTH: 18 FEET PENETRATION: 19.8 RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION	DEPTH	
ft	m			ft	m
1			m-f sand	1	
		28-1	0-0.28m 5Y 6/2 lt olive gray		
2	-0.5		0.44 shell, 0.5-0.6 planar bedding	2	-0.5
		*-1	0.28-1.3m 5Y 4/1 dk gray		
3			1.3-1.59m 5Y 6/2 lt olive gray	3	
4				4	
5	1.5			5	1.5
6		*-2	---slty clay layer 3cm-0.5cm	6	
7				7	
		28-2	f-vf sand w/scat shell		
8	2.5		mica	8	2.5
		*-3	5Y 4/1 dk gray		
9				9	
10	-3			10	-3
11				11	
12	3.5	*-4	---3.74-3.84m conc shell frgs, some	12	3.5
			m sand		
13		28-3		13	
14	-4		-----	14	-4
		*-5	grades into m to cs sand		
15	-4.5	*-6	interlams of f sand/m sand/ slty clay	15	-4.5
			5Y 4/1 dk gray		
16		*-7		16	
		*-8	m sand w/scat shell frags		
17	-5			17	-5
18		*-9	slty f-vf sand	18	
			widely scat shell frags		
19	-5.5	28-4	5Y 4/1 dk gray	19	-5.5
			becomes slightly coarser		
20	-6			20	-6



CORE LOG

CORE I.D.: 29 PROJECT: ST MINS VA BEACH SAND  
 DATE: JULY 31, 88 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.18 LONG. 75 48.62 LORAN 27090.3, 41040.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FOOT  
 LOGGED BY: OZALPASAN, DAME DATE: SEPT 21, 88  
 WATER DEPTH: 37 FT PENETRATION: 19.8 RECOVERY: 16.8

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m - f sand w/some silt and scat shell frags <2mm	1	
2	-0.5	29-1	5Y 5/2 olive gray	2	-0.5
		S-1			
3				3	
4	-1		0.98-1.02 many frags	4	-1
5	1.5		0.95-1.45 shell frags to 3 cm	5	1.5
			color 5Y 4/1 dk gray		
6				6	
7	-2			7	-2
		S-2			
8	2.5		well compacted slty clay	8	2.5
		29-2	5Y 4/1 dk gray		
9			mod pods at 2.51, 2.65 and 2.90	9	
		S-3			
10	-3			10	-3
11				11	
12	3.5			12	3.5
13				13	
14	-4			14	-4
		29-3			
		S-4			
15	-4.5		---2mm f sand	15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 30 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 34.70 LONG. 75 51.73 LORAN 27105.0, 41050.1  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FT  
 LOGGED BY: OZALPASAN & DAME DATE: SEPT 22, 87  
 WATER DEPTH: 33 FT PENETRATION: 19.8 RECOVERY: 16' 5"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1		30-1	slty clay w/scat shell frags <1mm at 0.2m 3cm bed of f sdy silt 5Y 4/1 dk gray	1	
2	-0.5	30-1	slty f sand w/shell frags to 3 cm 2cm peice of wood at 0.42m	2	-0.5
3				3	
4	-1		slty clay interlayered with slty f sand w/scat 1mm shell frags ---4-5cm clay layers---	4	-1
5	-1.5		slty clay 5Y 4/1 dk gray slty f sand w/scat 1mm shell	5	-1.5
6				6	
7	-2		well compacted slty clay w/1mm shell frags 5Y 4/1 dk gray	7	-2
8	-2.5	30-2		8	-2.5
9				9	
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
13				13	
14	-4	30-3	same	14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 31 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.76 LONG. 75 51.52 LORAN 27102.7, 41050.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FT  
 LOGGED BY: OZALPASAN & DAME DATE: SEPT 22, 87  
 WATER DEPTH: 25 FT PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1				1	
			LOST CORE		
2	-0.5		BROKE PENETROMETER	2	-0.5
3				3	
	-1				-1
4				4	
5	1.5			5	1.5
6				6	
	-2				-2
7				7	
8	2.5			8	2.5
9				9	
10	-3			10	-3
11				11	
	3.5				3.5
12				12	
13				13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 31 R2 PROJECT: ST MINS VA BEACH SAND  
 DATE: 4 AUG 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FT  
 LOGGED BY: OZALPASAN & DAME DATE: SEPT 22, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1		•-1	f sand w/some silt scat shell frags to 2mm 5Y 4/1	1	
2	-0.5	31-3		2	-0.5
3		•-2	slty f sand w/scat shell frags <1mm, high water content	3	
4	-1			4	-1
5	1.5	31-4		5	1.5
6		•-3		6	
7	-2	•-4	f sdy slit w/scat 1mm shell frags	7	-2
8	2.5	•-5	slty cs sand w/2mm shell frags	8	2.5
		•-6	f sdy silt		
		•-7	slty cs sand top contact at 45°		
9		•-8	slty f sand w/scat 4cm shell, frags	9	
10	-3			10	-3
11			CORE JETTED TO 9.7 FEET	11	
12	3.5		VIBRATED TO 19.9 FEET	12	3.5
			RECOVERED 9'2"		
			CORE COVERS INTERVAL 9.7 TO 18.9		
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 32 PROJECT: ST MINS VA BEACH SAND  
 DATE: 4 AUG 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 34.52 LONG. 75 50.89 LORAN 27101.4, 41049.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 IN VIBRACORE, 20 FT  
 LOGGED BY: OZALPASAN & DAME & DYDAK DATE: SEPT 22, 87  
 WATER DEPTH: 35 FT PENETRATION: 19.8 FT RECOVERY: 19'2"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			slty f sand w scat 2mm shell frgs	1	
2	-0.5	32-1	5Y 4/1 dk gray	2	-0.5
3			0.70m 3 cm shell frag	3	
4	-1		becomes coarser	4	-1
5	1.5		<u>f sdy silt w/scat shell frags</u>	5	1.5
6			<u>slty cs sand grading/f sand</u>	6	
7	-2		<u>w/scat 3mm shell frag</u>	7	-2
8			<u>f sand w/scat shell frags</u>	8	
9	2.5	32-2	<u>slty clay</u>	9	2.5
10			<u>f sand w/scat shell frags</u>	10	
11	-3		clay w/ slty sand laminations	11	-3
12			micaceous slty f sand	12	
13	3.5		slty clay, color changes down	13	3.5
14			micaceous slty v f sand	14	
15	-4		alternating colors, 1-5 mm	15	-4
16			<u>lams of slty f sand and m sand</u>	16	
17	-4.5	32-3	<u>1-5mm lamins of slty f sand and</u>	17	-4.5
18			<u>m to cs sand w/gravel / mud /</u>	18	
19	-5		<u>m to cs sand w/grav / m sand</u>	19	-5
20			<u>--m sand w/gravel / clay w/sd lam</u>	20	
21	-5.5		mic f sand w/some silt 5Y 4/2	21	-5.5
22			shell increasing w/depth	22	
23	-6		2.5Y 4/0 dk gray	23	-6
24			shell hash w/f sand, some gravel	24	
25			micaceous slty v f sand	25	

CORE LOG

CORE I.D.: 33 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.59 LONG. 75 50.66 LORAN 27099.0, 41040.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK & DAME DATE: SEPT 28, 87  
 WATER DEPTH: 37 FT PENETRATION: 19.8 FT RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			slty f sand w/widely scat shell frags and interlayers of slty clay 0.5 to 6 cm thick, 2.5Y 6.0 black	1	
2	-0.5	33-1	slty f to m sand / slty clay	2	-0.5
3			slty f sand (no interlayers)	3	
4	-1			4	-1
5	1.5			5	1.5
6		33-2	slty clay	6	
7	-2		slty f sand / slty clay	7	-2
8			cs sand, gravel w/abnd shell frags 5Y 3/2 dk olive gray	8	
9	2.5		v slty f sand w/mud pods & scat shell frags 2.5Y 4/0 dk gray	9	2.5
10	-3		1-2cm interlayers of cly silt and slty clay / slty clay	10	-3
11			grades down into slty f sand	11	
12	3.5		less silt with depth 5Y 4/1 dk gray	12	3.5
13		33-3		13	
14	-4			14	-4
15	-4.5		grvly f sand	15	-4.5
16			gravel w/slty f sand 2.5Y 2/0 black	16	
17	-5		cly silt / gravel	17	-5
18			gravel w/f slty sand, shell frags	18	
19	5.5	33-4	cly silt 2.5 Y 2/0 black	19	5.5
20	-6		grvl w/shl frgs, slty f & m sand	20	-6
19			alt layers of slty clay / cly silt	19	
			gravel, cs & m sand		
20	-6		mixed slty f sand and m sand	20	-6

CORE LOG

CORE I.D.: 34 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.52 LONG. 75 50.43 LORAN 27098.8, 41039.8  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK & DAME DATE: \_\_\_\_\_  
 WATER DEPTH: 31 FT PENETRATION: 19.7 FT RECOVERY: 15'8"

DEPTH		SAMP #	DESCRIPTION	ft	m
1			m sand w/trace cs and trace f	1	
2	-0.5	34-1	sand, widely scat shell frags 5Y 5/2 olive gray	2	-0.5
3		•-1		3	
4	-1			4	-1
5	-1.5			5	-1.5
6				6	
7	-2	•-2		7	-2
8	-2.5		f to m sand w shell frags, some thin mud interbeds	8	-2.5
9		34-2	f to v f sand 5Y 4/1 dk gray	9	
10	-3	•-4		10	-3
11				11	
12	-3.5		alternating m sand, slty v f sand	12	-3.5
13		34-3		13	
14	-4	•-6	cs sand w/shell frags, mud pods	14	-4
15	-4.5	•-7	f sand	15	-4.5
16	-5	•-8	cs sand w/abnd shell frags	16	-5
17		•-9	slty v f sand 5Y 4/1 dk gray	17	
18	-5.5			18	-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 35 PROJECT: ST MINS, VA REAH SAND  
 DATE: AUG 4, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.38 LONG. 75 49.68 LORAN 27094.8, 41039.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK & DAME DATE: OCT 6, 87  
 WATER DEPTH: 41 FT PENETRATION: 19.8 FT RECOVERY: 19.6 FT

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m sand & mud w/4cm shell frags	1	
2	-0.5	35-1	clay with few pods of f sand	2	-0.5
3			0 to 0.8 m 5Y 3/1 v dk gray	3	
4	-1		1.15 to 1.2 m wood frags	4	-1
5	-1.5		5Y 4/1 dk gray	5	-1.5
6				6	
7	-2	35-2	1.35 to 1.95 m wood frags	7	-2
8	-2.5			8	-2.5
9				9	
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
13		35-3		13	
14	-4		4.15 to 4.6 m abundant wood frags	14	-4
15	-4.5			15	-4.5
16				16	
17	-5		5.25 to 5.4 m sand lams	17	-5
18		35-4		18	
19	-5.5		m to f sand grading to v f sand at bottom 5y 5/1 gray	19	-5.5
20	-6		interlayers of mud and f sand cly silt matrix w/pods of more compacted green clay, shell frags	20	-6



CORE LOG

CORE I.D.: 36 R1 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 11, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 33.31 LONG. 75 49.05 LORAN 27092.2, 41040.5  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: FALSE CAPE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK AND DAME DATE: AUG 1, 1987  
 WATER DEPTH: 25 FEET PENETRATION: 4.5 FT RECOVERY: 3.8 FT

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1		36-1	1m to cs sand with abundant shell	1	
			frags up to 5 cm		
2	-0.5		5Y 5/3 olive	2	-0.5
			at 0.72 m fines increase		
3	-1		5Y 4/2 olive	3	-1
4				4	
5	1.5			5	1.5
6				6	
7	-2			7	-2
8	2.5			8	2.5
9				9	
10	-3			10	-3
11	3.5			11	3.5
12				12	
13	-4			13	-4
14				14	
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 36 R2 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 11, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: DYDAK AND DAME DATE: \_\_\_\_\_  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m sand w/scat shell	1	
			to 0.15 m 5Y 6/3 pale olive		
		36-2	below 0.15 5Y 5/2 olive gray		
2	-0.5			2	-0.5
3				3	
			1.02 m slty clay pod 5Y 4/1		
4	-1		1.15 m grades into f to m sand	4	-1
			w/scat shell frags		
5	-1.5			5	-1.5
6				6	
			JETTED TO 3.7 FT		
7	-2		VIBRATED TO 7.9 FT	7	-2
			RECOVERED 3.2		
8	-2.5		CORE COVERS INTERVAL 3.7 TO 7.9	8	-2.5
9				9	
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 36 R3 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 11, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: DYDAK AND DAME DATE: OCT 6, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m sand w/abund shell frags	1	
			5Y 5/3 olive to 0.55 m		
		36-3			
2	-0.5		0.55 to 1.03 5Y 5/1 gray	2	-0.5
3				3	
			f sand w/ abund shell frag		
4	-1		5Y 4/1 dk gray	4	-1
5	-1.5			5	-1.5
			NOTE: TOP 0.4 M OF TUBE EMPTY		
			MEASUREMENTS NOT EXACT		
			DISTURBED IN CUTTING		
6	-2			6	-2
7				7	
			JETTED TO 7.7 FT		
8	-2.5		VIBRATED TO 10.1	8	-2.5
			RECOVERED ~2.5		
9			CORE COVERS APPROX INTERVAL	9	
			7.7 TO 10.1		
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
13				13	
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 36 R4 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 1, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: DYDAK AND DAME DATE: OCT 6, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m		f to m sand w/abund shell frags	ft	m
1		36-4	5Y 5/1 gray	1	
			0.33 m dark parting		
2	-0.5			2	-0.5
			0.77 to 0.87 plug		
3				3	
4				4	
5	-1			5	-1
6				6	
			JETTED TO 9.8 FT		
7			VIBRATED TO 13 FT	7	
			RECOVERED 3.3 FT		
8	-1.5		CORE COVERS INTERVAL	8	-1.5
			9.8 TO 13 FT		
9				9	
10	-2			10	-2
11				11	
12	-2.5			12	-2.5
13				13	
14	-3			14	-3
15				15	
16	-3.5			16	-3.5
17				17	
18	-4			18	-4
19				19	
20	-4.5			20	-4.5
21				21	
22	-5			22	-5
23				23	
24	-5.5			24	-5.5
25				25	
26	-6			26	-6

CORE LOG

CORE I.D.: 37 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 1, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 48.83 LONG. 75 56.09 LORAN 27146.0, 41040.5  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: CALLIARI AND DAME DATE: AUG 1, 87  
 WATER DEPTH: 29 FEET PENETRATION: 19.8 RECOVERY: 16.6

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			f to vf mica sand w/scat shell frg	1	
			0.12 - 0.14 m concentration of shl		
			5Y 4/1 dk gray		
2	-0.5	37-1	0.53-0.65 lams of slty clay, 2cm	2	-0.5
3		• - 1		3	
	-1				-1
4			1.29 - 1.30 m slty clay	4	
5	1.5			5	1.5
6		• - 2	grades into m to f sand	6	
	-2	-----	5Y 4/1		-2
7			2.45-2.53 m shell lyr in sand	7	
		37-2	matrix, shells to 3 cm		
8	2.5	• - 3		8	2.5
			2.75-2.80 shell lyr in sand		
			matrix, shells to 8 cm		
		• - 4	f to vf micaceous sand 5Y 4/1		
10	-3			10	-3
11			3.13-3.15 slty sand	11	
	3.5		3.28-3.29 slty sand		3.5
12			3.38-3.39 slty sand	12	
		37-3	same as above, 2.5y 4/1 dk gray		
13		• - 5		13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 38 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 1, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 48.50 LONG. 75 54.74 LORAN 27140.0, 41200.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: CALLILARI & DAME DATE: SEPT 4, 87  
 WATER DEPTH: 34 FT PENETRATION: 19.8 RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			f to vf micaceous sand	1	
			5Y 3/1 v dk gray		
2	-0.5	38-1		2	-0.5
3			0.81-0.84 4cm Ensis frag	3	
4	-1		cs sand w/some grvl 5Y 3/2 dk ol gr	4	-1
			slty m sand		
5	1.5		m to cs sand w/shell frgs to 4 cms	5	1.5
			slty clay/m to f sand/m sand		
6			f to vf mica sand 5Y 3/1	6	
7	-2		slty caly w/some f mica f sand	7	-2
			slty cs sand and grvl w/shell frg		
8	2.5			8	2.5
		38-2	slightly slty clay		
			highly compacted		
			5Y 4/1		
10	-3			10	-3
11				11	
12	3.5			12	3.5
		38-3			
			3.85-3.95 small pods (1.5 cm) of		
			cs sand		
13	-4			13	-4
14				14	
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
		38-4			
			5.41-5.42m shell frags		
18	-5.5			18	-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 39 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 47.67 LONG. 75 55.10 LORAN 27140.0, 41898.2  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK & EVANS DATE: SEPT 3, 87  
 WATER DEPTH: 31 PENETRATION: 19.8 RECOVERY: 17.6

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			massive vf sand w/scat 4 cm shell frags	1	
			dark band 0.10-0.12m		
2	-0.5	39-1	5Y 4/1 dk gray	2	-0.5
3				3	
4				4	
5	1.5		-----f to m sand & gravel-----	5	1.5
			-----mica f to vf sand -----		
6			-----cs to m sand w/tr grvl-----	6	
7			f to vf mica snd w/scat shell frgs	7	
			tr subrounded gravel		
8	2.5	39-2	5Y 4/1 dk gray	8	2.5
			2.3-2.4m conc of grvl and 4cm shell		
9				9	
10	-3		3.12 4cm wood frag	10	-3
11				11	
12	3.5			12	3.5
13			3.89-3.92 m conc of bivalve shells	13	
14	-4			14	-4
15	-4.5	39-3		15	-4.5
			4.63-4.68 slty f sand		
			4.73-4.79 slty clay		
16				16	
17	-5		5.13-5.18 shell hash w/cs sand	17	-5
			5.26-5.30 interlams of slty clay		
			and slty f sand		
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 40 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 47.78 LONG. 75 55.67 LORAN 27142.5, 41190.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DYDAK & EVANS DATE: \_\_\_\_\_  
 WATER DEPTH: 30 FT PENETRATION: 19.8 RECOVERY: 15.0

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			massive, micaceous vf sand	1	
2	-0.5	40-1	some widely scat shell frags 5Y 4/1 dk gray	2	-0.5
3				3	
4	-1			4	-1
5	1.5			5	1.5
6				6	
7	-2	40-2	several pods of slty f sand 2.2 m icm shell layer, 1 cm clams	7	-2
8	2.5			8	2.5
9				9	
10	-3			10	-3
11			occasional 1 cm lenses of slty f sand	11	
12	3.5	40-3		12	3.5
13				13	
14	-4			14	-4
15	4.5			15	4.5
16				16	
17	-5			17	-5
18				18	
19	5.5			19	5.5
20	-6			20	-6



CORE LOG

CORE I.D.: 41 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 47.91 LONG. 75 56.26 LORAN 27145.1, 41190.1  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DAME & DYDAK DATE: SEPT 2, 87  
 WATER DEPTH: 29 FEET PENETRATION: 19.8 RECOVERY: 13.2

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			micaceous slty f to vf sand	1	
			w/widely scat shell frags		
		41-1	0.30-0.35 angled 1cm shell layer		
2	-0.5		0.42-0.44 horiz layer abund 1 cm shell frgs	2	-0.5
3				3	
	-1		5Y 4/1 dark gray		-1
4				4	
5	1.5			5	1.5
6			more sand above, clay below	6	
	-2		5GY 4/1 dk greenish gray		-2
7		41-2	slty clay w/some shell frags	7	
			m to cs sand and gravel		
8	2.5		5Y 5/1 gray	8	2.5
9				9	
10	-3		f to vf sand w/ some shell frags	10	-3
		41-3	5Y 5/1 gray		
11				11	
	-3.5				-3.5
12				12	
13				13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 42 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 47.06 LONG. 75 56.60 LORAN 27145.0, 41179.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 WATER DEPTH: 30 FT PENETRATION: 19.8 RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION	ft	m
1		•-1	vf mica sand 2.5 Y 3/1 v dk gray	1	
2		•-2	cs sand and gravel	2	
3		•-3	m to f sand	3	
2	-0.5	•-4	interlams m-f sand & slty clay	2	-0.5
3		•-5	shelly cs sand	3	
3		42-1		3	
4	-1		mica f sand w/ some shell	4	-1
4		•-6	2.5Y 4/1 dk gray	4	
5	-1.5			5	-1.5
6		•-7	m to f micaceous sand	6	
7	-2		5Y 4/1	7	-2
8		•-8		8	
8	-2.5	42-2	vf micaceous and with variable amounts silt and clay	8	-2.5
9		•-9		9	
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
12		42-3		12	
13		•-10		13	
13	-4		slty clay, v f sand	13	-4
14			disturbed (?) layering	14	
15	-4.5			15	-4.5
16				16	
16	-5		slty clay w/ pods and stringers of slty f sand	16	-5
17		42-4	5Y 4/1 dk gray	17	
18		•-11		18	
18	-5.5		---3 cm pebble sandier near bottom	18	-5.5
19				19	
20	-6	•-12	m to f micaceous sand 5Y 5/1 gray	20	-6

CORE LOG

CORE I.D.: 43 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 46.97 LONG. 75 56.04 LORAN 27142.6; 41180.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: CALLIARI AND DAME DATE: SEPT 1, 87  
 WATER DEPTH: 32 FEET PENETRATION: 17.8 RECOVERY: 17

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			f to vf micaceous sand	1	
			5Y 4/1 dk gray		
2	-0.5	43-1		2	-0.5
3			----- mud	3	
	-1				-1
4				4	
			-----cs shelly sand, 6cm shell frg		
5	1.5			5	1.5
6				6	
	-2				-2
7			f sand w/ sidely scat shell frgs	7	
8	2.5	43-2		8	2.5
9				9	
10	-3			10	-3
			3 cm shell frgs at base		
11			2 cm interlams of f sand & slty	11	
	3.5		clay		3.5
12				12	
			v f micaceous sand		
13			w/slty sand and clay laminations	13	
	-4		2.5Y 4/1 dk gray		-4
14		43-3		14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 44 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 46.87 LONG. 75 55.44 LORAN 27140.0, 41180.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: RUDEE INLET  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: CALLIARI AND DAME DATE: SEPT 1, 87  
 WATER DEPTH: 33 FT PENETRATION: 19.8 RECOVERY: 17.5

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			f to vf micaceous sand	1	
2	-0.5	44-1	2 cm shelly layer at 0.23m	2	-0.5
3				3	
4	-1			4	-1
5	1.5			5	1.5
6			cs shelly sand, frags to 8 cm	6	
7	-2		m to f sand w/abnd shell frgs micaceous 5Y 4/1 dk gray	7	-2
8			1.78-1.82m shell layer	8	
9	2.5	44-2	5 cm shell frags throughout	9	2.5
10	-3			10	-3
11			3.13-3.17m shelly sand layer	11	
12	3.5		3.38-3.44m shelly sand layer	12	3.5
13			3.52-3.70m many bivalve shells	13	
14	-4	44-3	interlayers of cs sand and slty clay to 10cm thick	14	-4
15	-4.5		cs sand - 5Y 6/1 gray slty clay - 2.5Y 5/1 gray	15	-4.5
16			4.80m 6cm piece of wood	16	
17	-5			17	-5
18			m to f sand w/some shell frgs	18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 45 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 45.24 LONG. 75 56.13 LORAN 27140.0, 41160.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: SANDBRIDGE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FEET  
 LOGGED BY: CALLIARI AND DAME DATE: AUG 25, 87  
 WATER DEPTH: 32 FEET PENETRATION: 16 RECOVERY: 14'3"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
			10-0.2m f to vf micaceous sand		
1		•-1	0.02-0.1m cs to m sand w/scat shl	1	
			10.1-0.15m f to vf micaceous sand		
2	-0.5		10.15-0.25m mdy sand w/shell	2	-0.5
		45-1			
3		•-2	0.25-1.45m slty clay w/lams of	3	
			shell hash and slty sand		
4	-1		5Y 4/1	4	-1
5	1.5	----	slty clay w/ 3cm lams of mdy sand	5	1.5
		•-3			
6				6	
7	-2	•-4	m sand w/scat shell frags	7	-2
		45-2	5Y 4/1 dk gray		
		•-5	cs sand w/7cm shell frags		
8	2.5			8	2.5
			m to f sand w/scat shell frags		
9		•-6	5Y 4/1 dk gray	9	
10	-3			10	-3
		•-7			
11		45-3		11	
12	3.5			12	3.5
		•-8	cs sand w/abnd 3cm shell frags		
13				13	
			m sand		
14	-4			14	-4
15	-4.5			15	-4.5
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 46 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 45.02 LONG. 75 55.00 LORAN 27135.1, 41159.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: SANDBRIDGE  
 TYPE OF CORE: 3.5 INCH CORE, 20 FOOT  
 LOGGED BY: CALLIARI AND DAME DATE: AUG 25, 87  
 WATER DEPTH: 36 FT PENETRATION: 19.1 FT RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION	DEPTH	
ft	m			ft	m
1			f micaceous sand w/scat shell	1	
			frags 5Y 4/1 dk gray		
2	-0.5	46-1		2	-0.5
3				3	
4	-1		cs shely sand w/slty clay, 4cm shl f	4	-1
			slty caly		
			slty sand		
5	1.5		m sand w/scat shell frgs	5	1.5
			1.60-1.66m shell hash 5Y 5/1 gray		
6				6	
7	-2		2-10cm interlams of f sand and	7	-2
			slty caly		
			2-21-2.25m shell hash with f sand		
8	2.5	46-2		8	2.5
9				9	
10	-3			10	-3
11				11	
12	3.5		3.46-3.52m cs sand	12	3.5
13		46-3		13	
14	-4			14	-4
15				15	
16	-4.5		4.48-4.52 cs shly sand	16	-4.5
17				17	
18	-5		shly cs sand, 4cm frags	18	-5
			m sand w/scat shell frags		
19		46-4		19	
20	-5.5		cs sand w/abnd shell frags	20	-5.5
			5.58-5.58 slty clay		
21	-6		m to f sand	21	-6

CORE LOG

CORE I.D.: 47 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 2, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 44.81 LONG. 75 53.82 LORAN 27130.0, 41159.9  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: SANDBRIDGE  
 TYPE OF CORE: 3.5 INCH VIBRACORE 20 FOOT  
 LOGGED BY: CALLIARI AND DAME DATE: AUG 26, 87  
 WATER DEPTH: 42 FT PENETRATION: 13.6 RECOVERY: 12'10"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
			f to vf micaceous sand		
1			0.40-0.43m slty clay lam	1	
		•-1	5Y 3/1 v dk gray		
2	-0.5			2	-0.5
3		47-1	slightly slty clay w/lams of cs	3	
	-1		shelly sand and f sand. Lams from		-1
4			1 to 5 cm 5Y 4/1 dk gray	4	
		•-2			
5	-1.5		1.55m several 8cm shell frags	5	-1.5
6				6	
	-2				-2
7				7	
		•-3			
8	-2.5		-----	8	-2.5
			cs shelly sand, frags to 5cm		
9		47-2 •-4	---slty clay-----	9	
			cs shelly sand, frags to 5cm		
10	-3			10	-3
			m to cs sand w/widely scat small		
11		•-5	shell frags, trace gravel	11	
	-3.5		5Y 5/1 gray		-3.5
12			-----	12	
13				13	
	-4				-4
14				14	
15	-4.5			15	-4.5
16				16	
	-5				-5
17				17	
18				18	
	-5.5				-5.5
19				19	
20	-6			20	-6

CORE LOG

CORE I.D.: 48\_R1 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 3, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 44.61 LONG. 75 52.66 LORAN 27125.0, 41160.0  
 FIELD LOCATION DETERMINED BY: LORAN-C  
 DESCRIPTIVE LOCATION: SANDBRIDGE  
 TYPE OF CORE: 3.5 INCH VIBRACORE, 20 FOOT  
 LOGGED BY: DAME AND DYDAK DATE: AUG 26, 87  
 WATER DEPTH: 29 FT PENETRATION: 7.3 RECOVERY: 6'10"

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			fm to cs sand w/scat 2cm shell frgs	1	
2	-0.5		2.5Y 4/4 lt olive brown	2	-0.5
3		48-1	-----	3	
4	-1		f to cs sand w/fewer shell frags	4	-1
5	-1.5		5Y 4/2 olive gray	5	-1.5
6	-2			6	-2
7				7	
8	-2.5			8	-2.5
9				9	
10	-3			10	-3
11				11	
12	-3.5			12	-3.5
13				13	
14	-4			14	-4
15				15	
16	-4.5			16	-4.5
17				17	
18	-5			18	-5
19				19	
20	-5.5			20	-5.5
21				21	
22	-6			22	-6



CORE LOG

CORE I.D.: 48 R2 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 3, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: EVANS AND DAME DATE: AUG 27, 87  
 WATER DEPTH: 29 PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			cs to m sand w/pods of darker	1	
			cs to m sand		
2	-0.5		5y 6/2 lt olive gray	2	-0.5
		48-2			
3				3	
4	-1			4	-1
			1.4m 5cm shell frag		
5	-1.5		<u>cs to m sand 5Y 4/2 olive gray</u>	5	-1.5
			same as above		
6	-2		-----	6	-2
7				7	
		48-3	cs to m sand, scat shell frags		
8	-2.5		5Y 4/1 dk gray	8	-2.5
			pods of 2.5Y 6/2 lt brnsh gray		
9			<u>m to f sand</u>	9	
			cs to m sand 5Y 4/1		
10	-3			10	-3
			layers of m sand		
11				11	
12	-3.5			12	-3.5
			m to f sand		
13			f sandy silt	13	
14	-4		JETTED TO 6.3 FT	14	-4
			VIBRATED TO 14.4 FT		
15	-4.5		RECOVERED 13'1"	15	-4.5
			COVERS INTRERVAL ? TO 14.4 FT		
16				16	
17	-5			17	-5
18				18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

CORE I.D.: 48 R3 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 3, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ LORAN \_\_\_\_\_  
 FIELD LOCATION DETERMINED BY: \_\_\_\_\_  
 DESCRIPTIVE LOCATION: \_\_\_\_\_  
 TYPE OF CORE: \_\_\_\_\_  
 LOGGED BY: DAME AND EVANS DATE: AUG 27, 87  
 WATER DEPTH: \_\_\_\_\_ PENETRATION: \_\_\_\_\_ RECOVERY: \_\_\_\_\_

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m to f sand	1	
			5Y 4/2 olive gray		
		1	coarsens down (fines upward)		
2	-0.5		cs to m sand v shelly	2	-0.5
		48-4	2.5Y 5/2 grayish brown		
3			-----	3	
		2	m to f sand 5Y 4/1		
4				4	
5	1.5			5	1.5
6				6	
7	-2			7	-2
			JETTED TO 13.8 FEET		
			VIBRATED TO 19.0 FT		
8	2.5		RECOVERED 4.0 FT	8	2.5
			CORE COVERS INTERVAL 13.8 TO 17.8		
9				9	
10	-3			10	-3
11				11	
12	3.5			12	3.5
13				13	
14	-4			14	-4
15				15	
16	4.5			16	4.5
17				17	
18	-5			18	-5
19				19	
20	5.5			20	5.5
21				21	
22	-6			22	-6

CORE LOG

CORE I.D.: 49 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 3, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 45.43 LONG. 75 52.34 LORAN 27125.1, 41170.0  
 FIELD LOCATION DETERMINED BY: LORAN C  
 DESCRIPTIVE LOCATION: SANDBRIDGE  
 TYPE OF CORE: 3.5 INCH VIBRACORE 20 FOOT  
 LOGGED BY: DAME AND EVANS DATE: AUG 27, 87  
 WATER DEPTH: 35 FT PENETRATION: 19.8 RECOVERY: 18.5

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			m to cs sand	1	
2	-0.5	49-1	widely scat shell frags 5Y 6/2	2	-0.5
3			5Y 5/2 olive gray	3	
4	-1			4	-1
5	1.5		coarser	5	1.5
6				6	
7	-2	49-2		7	-2
8	2.5		5Y 4/1 dark gray	8	2.5
9				9	
10	-3		----- v cly silt -----	10	-3
11				11	
12	3.5	49-3	f to m sand w/scat shell frags fines down (coarsens up)	12	3.5
13			shell frags to 2.5 cm 5Y 5/2 olive gray	13	
14	-4		f sand - slty f sand 5Y 4/1 dk gray	14	-4
15	-4.5		slty caly w/pods of m to cs shelly sand	15	-4.5
16	-5		slty clay and shly m to f sand in patches, some grvl in sand, 3cm shells	16	-5
17		49-4		17	
18			slty f to vf micaceous sand	18	
19	-5.5			19	-5.5
20	-6			20	-6

CORE LOG

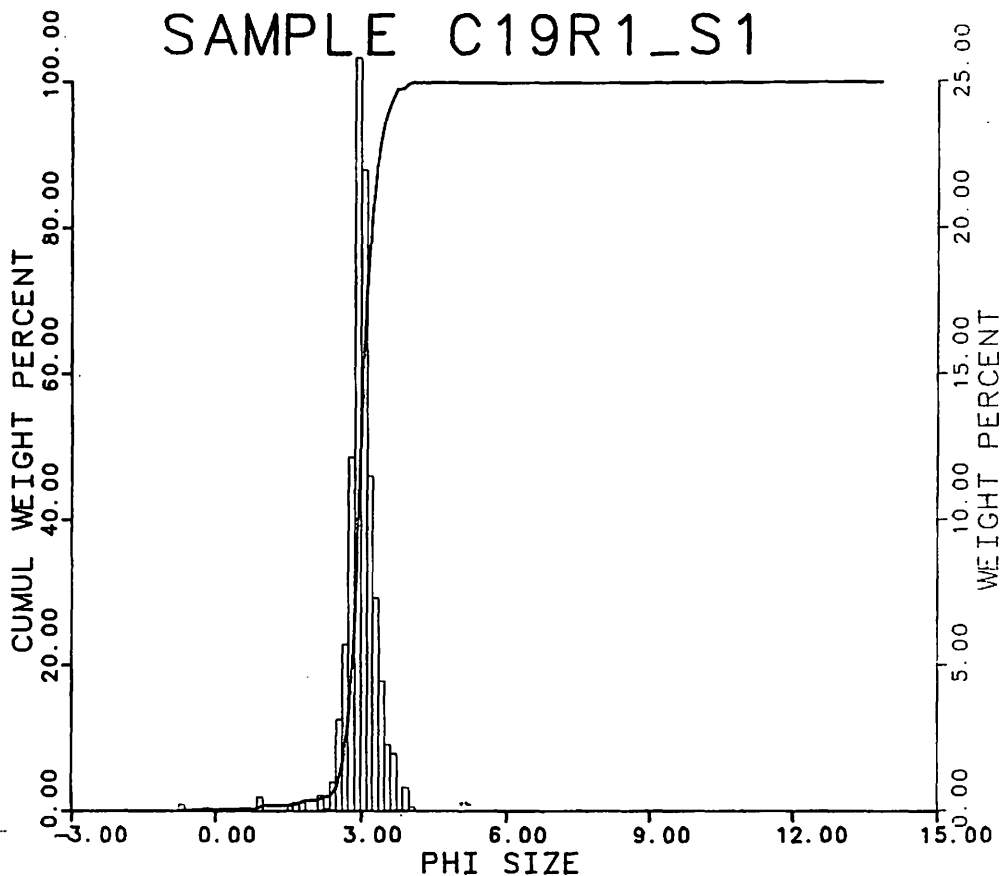
CORE I.D.: 50 PROJECT: ST MINS VA BEACH SAND  
 DATE: AUG 3, 87 DRILLER: ALPINE, ATLANTIC TWIN  
 LOC: LAT. 36 43.79 LONG. 75 53.01 LORAN 27125.0, 41150.0  
 FIELD LOCATION DETERMINED BY: LORAN C  
 DESCRIPTIVE LOCATION: SASNDBRIDGE  
 TYPE OF CORE: 3.5 INCH, 20 FOOT  
 LOGGED BY: DYDAK, DAME, AND EVANS DATE: AUG 31, 87  
 WATER DEPTH: 39 FT PENETRATION: 19.1 RECOVERY: 20

DEPTH		SAMP #	DESCRIPTION		
ft	m			ft	m
1			micaceous silt w/vf sand and clay	1	
			5Y 4/1 dk gray		
2	-0.5	50-1	becomes micaceous slty clay	2	-0.5
3				3	
4	-1	50-2	mottled mica f sand w/clay, sandy dn	4	-1
5			clay 5Y 5/1 gray	5	
6	-1.5			6	-1.5
7				7	
8	-2			8	-2
9				9	
10	-2.5	50-2	well compacted slty clay	10	-2.5
			2.5Y 4/1 dk gray		
11				11	
12	-3			12	-3
13				13	
14	-3.5			14	-3.5
15				15	
16	-4			16	-4
17				17	
18	-4.5	50-3		18	-4.5
19				19	
20	-5		<shell concentration	20	-5
21				21	
22	-5.5		<shell concentration	22	-5.5
23				23	
24	-6		---f sndy slty clay 5Y 3/1 v dk gr	24	-6
			shell hash in clay matarix		

SECRET

1. The information in this document is classified "Secret" because it contains information the disclosure of which would be injurious to the national defense.

# SAMPLE C19R1\_S1



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 91.5  
 V-COARSE SAND - 0.3  
 COARSE SAND - 0.5  
 MEDIUM SAND - 0.6  
 FINE SAND - 44.2  
 V-FINE SAND - 45.9  
 SILT \_\_\_\_\_ 8.5  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

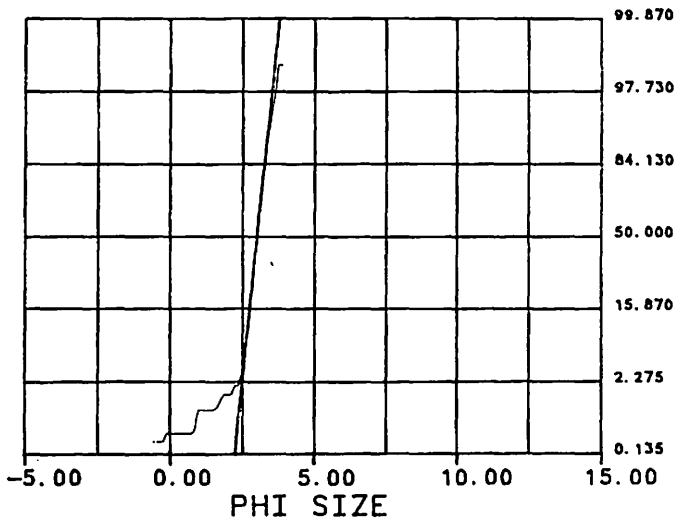
MEDIAN \_\_\_\_\_ 3.001  
 MEAN \_\_\_\_\_ 3.019  
 STD. DEVIATION - 0.257  
 INC. SKEWNESS - 0.101  
 INC. KURTOSIS - 0.191

### Moment Measures

1st MOMENT \_\_\_\_\_ 3.001  
 2nd MOMENT \_\_\_\_\_ 0.377  
 3rd MOMENT \_\_\_\_\_ -3.633  
 4th MOMENT \_\_\_\_\_ 33.494

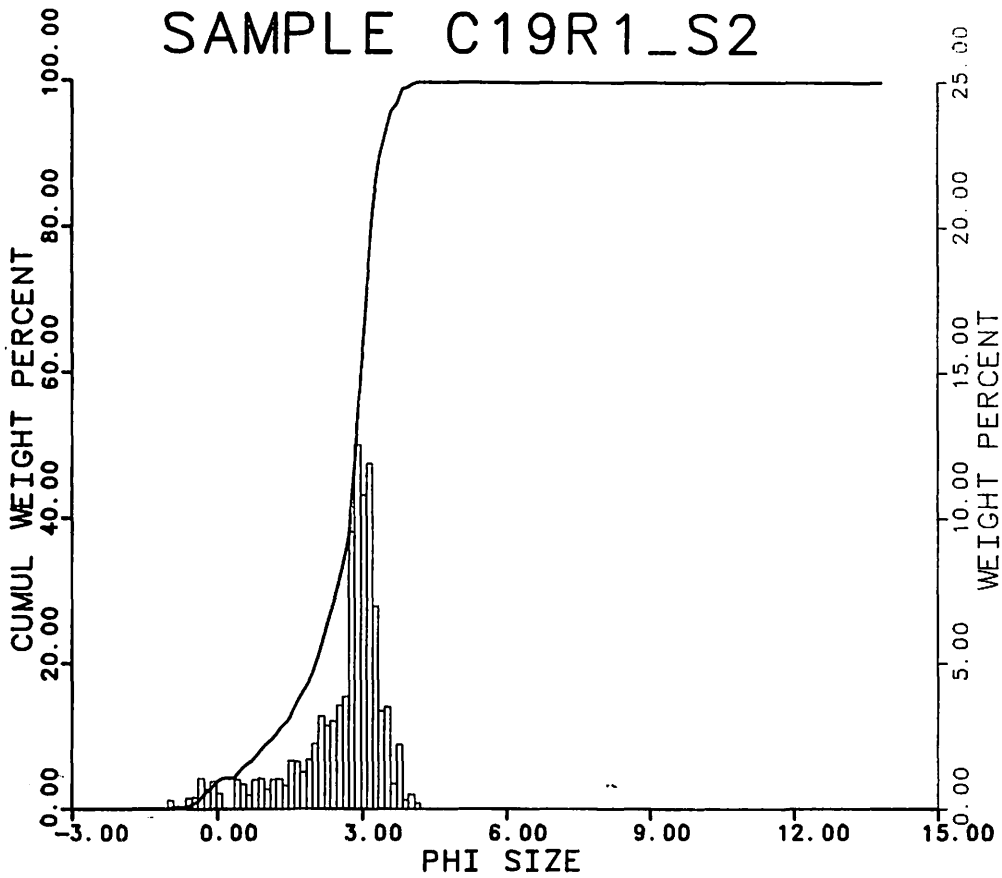
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C19R1\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

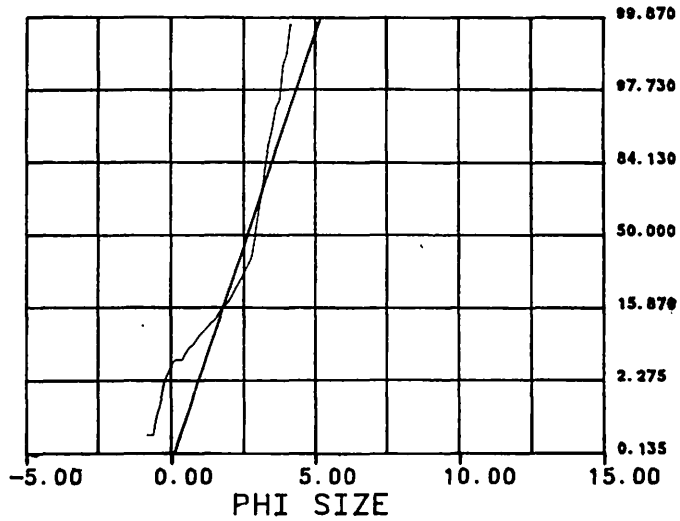
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 8.6  
 SAND \_\_\_\_\_ 72.3  
 V-COARSE SAND \_\_\_\_\_ 2.7  
 COARSE SAND \_\_\_\_\_ 3.6  
 MEDIUM SAND \_\_\_\_\_ 7.2  
 FINE SAND \_\_\_\_\_ 29.7  
 V-FINE SAND \_\_\_\_\_ 29.1  
 SILT \_\_\_\_\_ 19.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.907  
 MEAN \_\_\_\_\_ 2.662  
 STD. DEVIATION \_\_\_\_\_ 0.847  
 INC. SKEWNESS \_\_\_\_\_ -0.527  
 INC. KURTOSIS \_\_\_\_\_ 0.574

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.601  
 2nd MOMENT \_\_\_\_\_ 0.939  
 3rd MOMENT \_\_\_\_\_ -1.555  
 4th MOMENT \_\_\_\_\_ 5.161

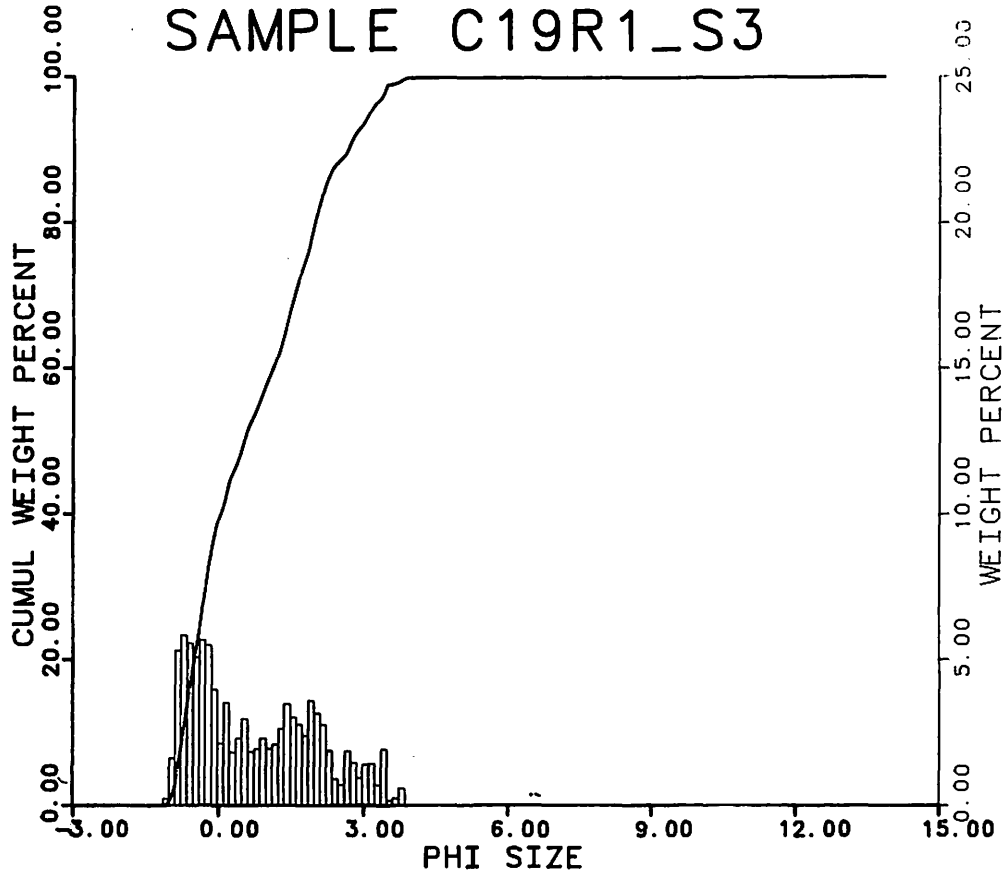
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C19R1\_S3



Sample Location  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

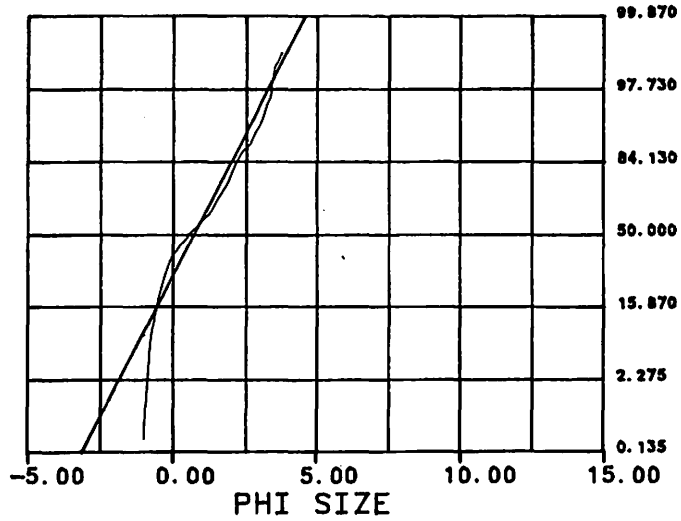
Gross Parameters (%)  
 GRAVEL ----- 35.3  
 SAND ----- 59.1  
 V-COARSE SAND -- 22.9  
 COARSE SAND --- 11.2  
 MEDIUM SAND --- 13.0  
 FINE SAND ----- 8.2  
 V-FINE SAND --- 3.9  
 SILT ----- 5.8  
 CLAY ----- 0.0

Graphic Measures  
 MEDIAN ----- 0.556  
 MEAN ----- 0.725  
 STD. DEVIATION-- 1.280  
 INC. SKEWNESS-- 0.248  
 INC. KURTOSIS-- 0.823

Moment Measures  
 1st MOMENT ----- 0.791  
 2nd MOMENT ----- 1.272  
 3rd MOMENT ----- 0.462  
 4th MOMENT ----- 2.061

DATE: 7-19-88

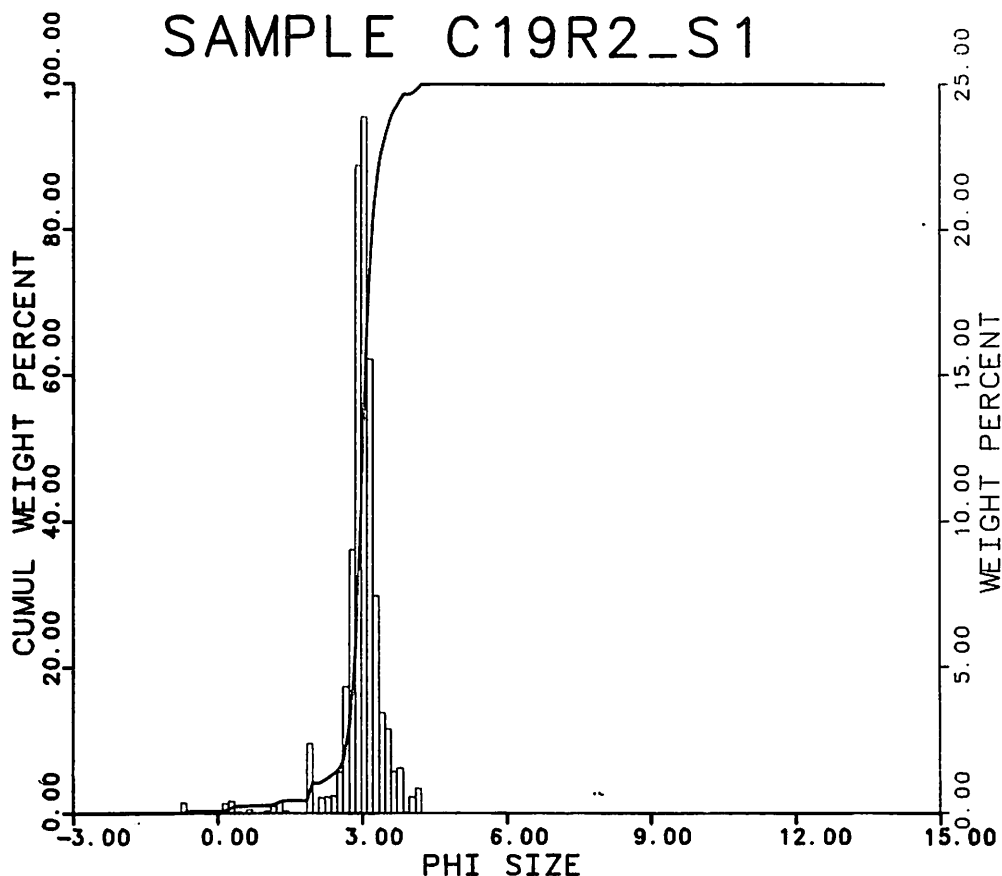
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C19R2\_S1



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

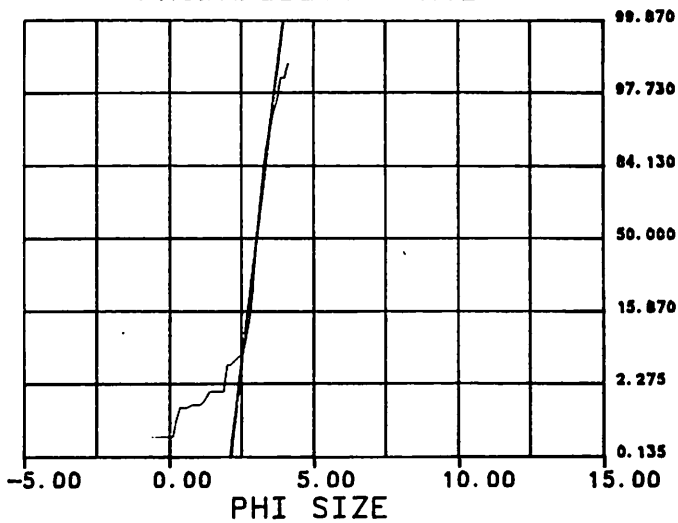
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 99.4  
   V-COARSE SAND - 0.3  
   COARSE SAND - 0.7  
   MEDIUM SAND - 2.8  
   FINE SAND - 35.3  
   V-FINE SAND - 51.4  
 SILT \_\_\_\_\_ 0.5  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 3.039  
 MEAN \_\_\_\_\_ 3.048  
 STD. DEVIATION \_\_\_\_\_ 0.308  
 INC. SKEWNESS \_\_\_\_\_ -0.036  
 INC. KURTOSIS \_\_\_\_\_ 0.257

Moment Measures  
 1st MOMENT \_\_\_\_\_ 3.005  
 2nd MOMENT \_\_\_\_\_ 0.479  
 3rd MOMENT \_\_\_\_\_ -3.143  
 4th MOMENT \_\_\_\_\_ 21.856

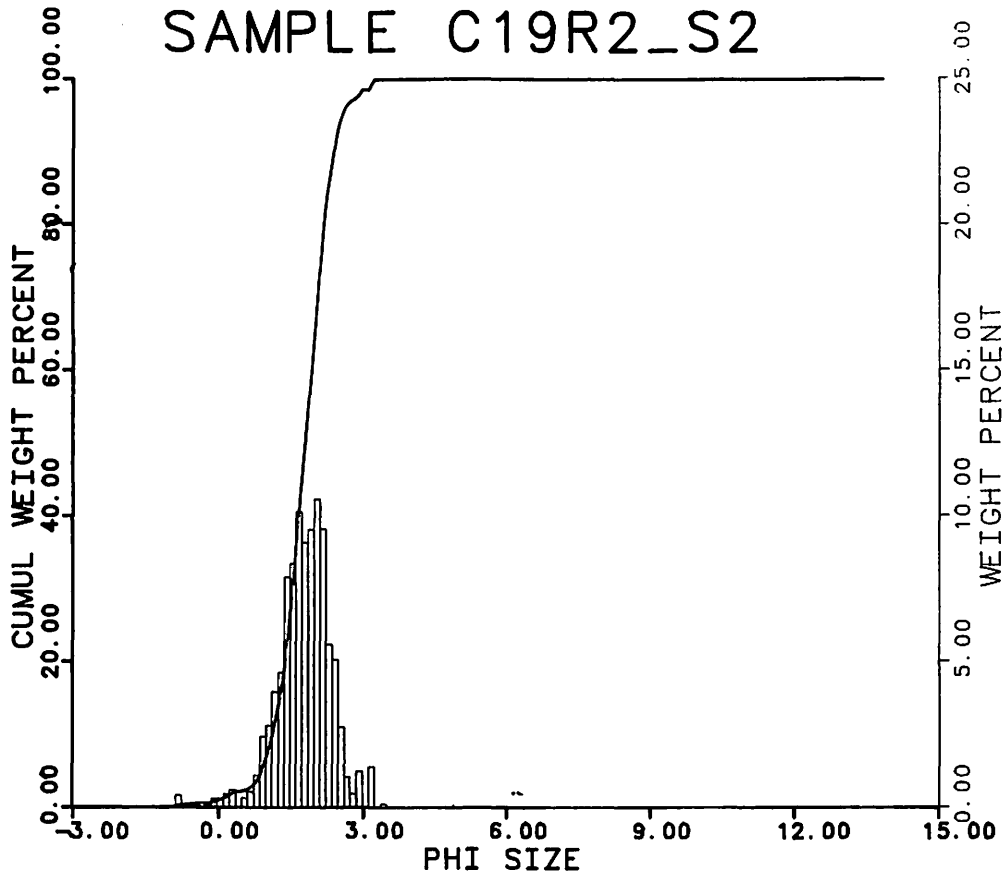
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C19R2\_S2



**Sample Location**

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Grass Parameters (%)**

GRAVEL \_\_\_\_\_ 0.3  
 SAND \_\_\_\_\_ 94.9  
 V-COARSE SAND \_\_\_\_\_ 0.8  
 COARSE SAND \_\_\_\_\_ 5.2  
 MEDIUM SAND \_\_\_\_\_ 53.3  
 FINE SAND \_\_\_\_\_ 34.2  
 V-FINE SAND \_\_\_\_\_ 1.4  
 SILT \_\_\_\_\_ 4.8  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**

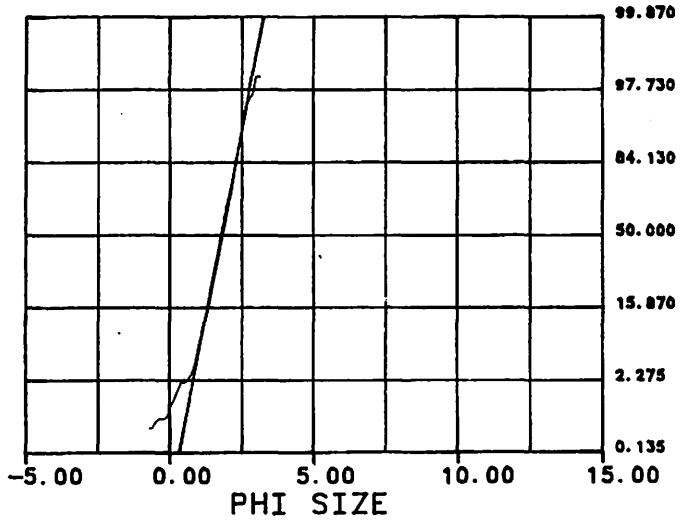
MEDIAN \_\_\_\_\_ 1.833  
 MEAN \_\_\_\_\_ 1.814  
 STD. DEVIATION \_\_\_\_\_ 0.489  
 INC. SKEWNESS \_\_\_\_\_ -0.076  
 INC. KURTOSIS \_\_\_\_\_ 0.441

**Moment Measures**

1st MOMENT \_\_\_\_\_ 1.800  
 2nd MOMENT \_\_\_\_\_ 0.552  
 3rd MOMENT \_\_\_\_\_ -0.722  
 4th MOMENT \_\_\_\_\_ 5.576

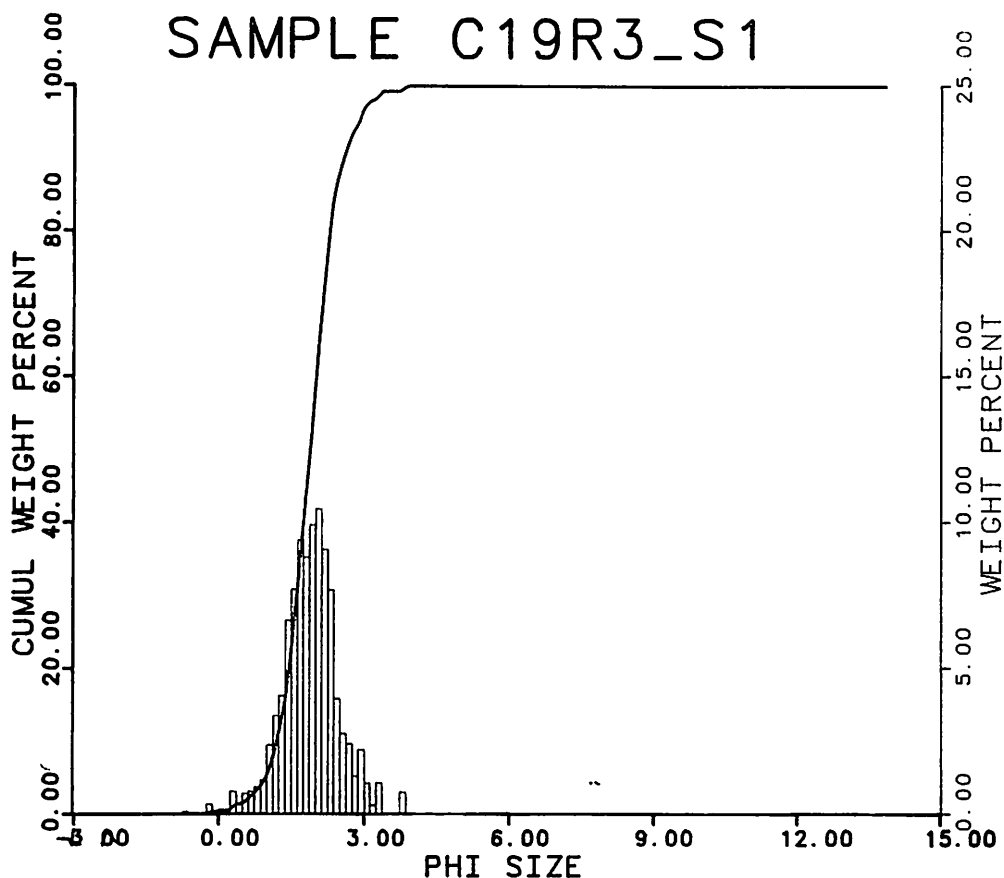
DATE: 7-18-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C19R3\_S1



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

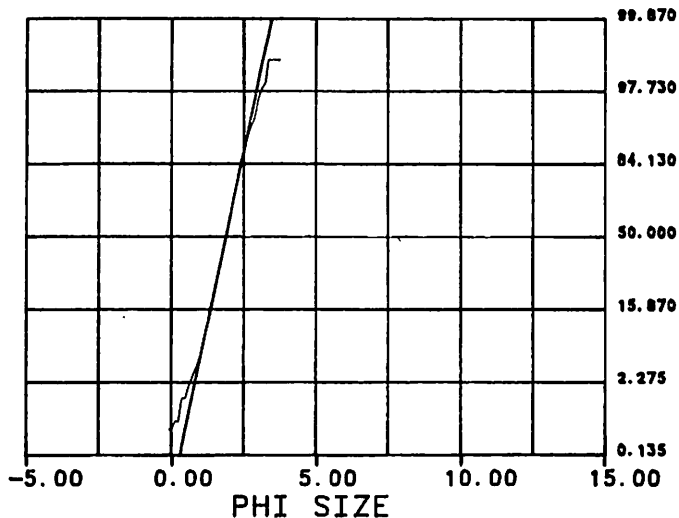
**Gross Parameters (%)**  
 GRAVEL ——— 0.5  
 SAND ——— 95.0  
 V-COARSE SAND — 0.4  
 COARSE SAND — 0.3  
 MEDIUM SAND — 50.0  
 FINE SAND — 38.1  
 V-FINE SAND — 3.0  
 SILT ——— 3.7  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.911  
 MEAN ——— 1.894  
 STD. DEVIATION — 0.529  
 INC. SKEWNESS — -0.005  
 INC. KURTOSIS — 0.467

**Moment Measures**  
 1st MOMENT ——— 1.890  
 2nd MOMENT ——— 0.574  
 3rd MOMENT ——— -0.055  
 4th MOMENT ——— 4.450

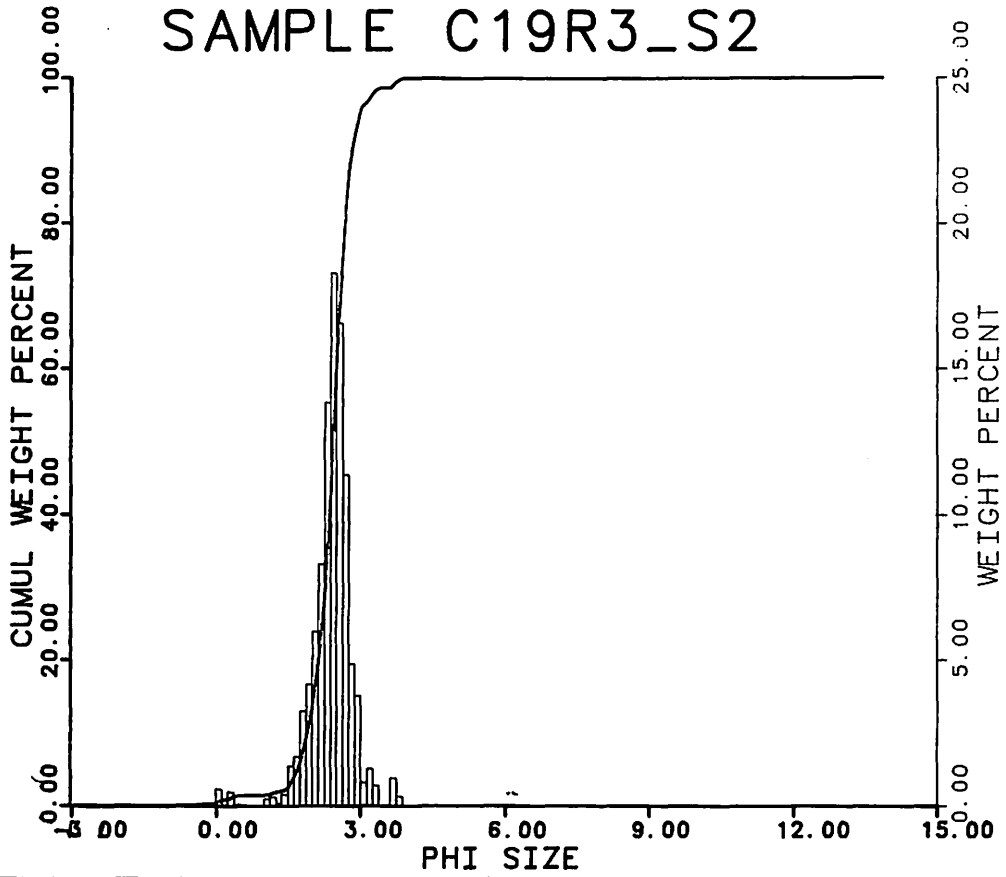
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C19R3\_S2



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 92.2  
 V-COARSE SAND \_\_\_\_\_ 0.2  
 COARSE SAND \_\_\_\_\_ 1.0  
 MEDIUM SAND \_\_\_\_\_ 10.6  
 FINE SAND \_\_\_\_\_ 78.6  
 V-FINE SAND \_\_\_\_\_ 3.8  
 SILT \_\_\_\_\_ 7.7  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

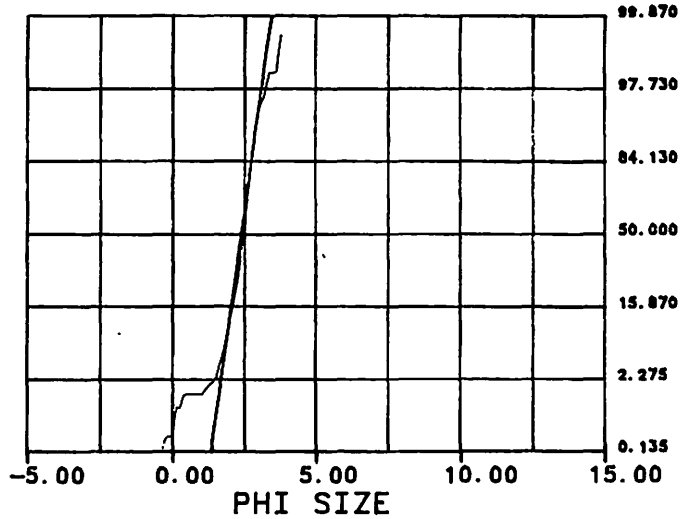
MEDIAN \_\_\_\_\_ 2.438  
 MEAN \_\_\_\_\_ 2.405  
 STD. DEVIATION \_\_\_\_\_ 0.352  
 INC. SKEWNESS \_\_\_\_\_ -0.146  
 INC. KURTOSIS \_\_\_\_\_ 0.301

### Moment Measures

1st MOMENT \_\_\_\_\_ 2.390  
 2nd MOMENT \_\_\_\_\_ 0.462  
 3rd MOMENT \_\_\_\_\_ -1.708  
 4th MOMENT \_\_\_\_\_ 12.115

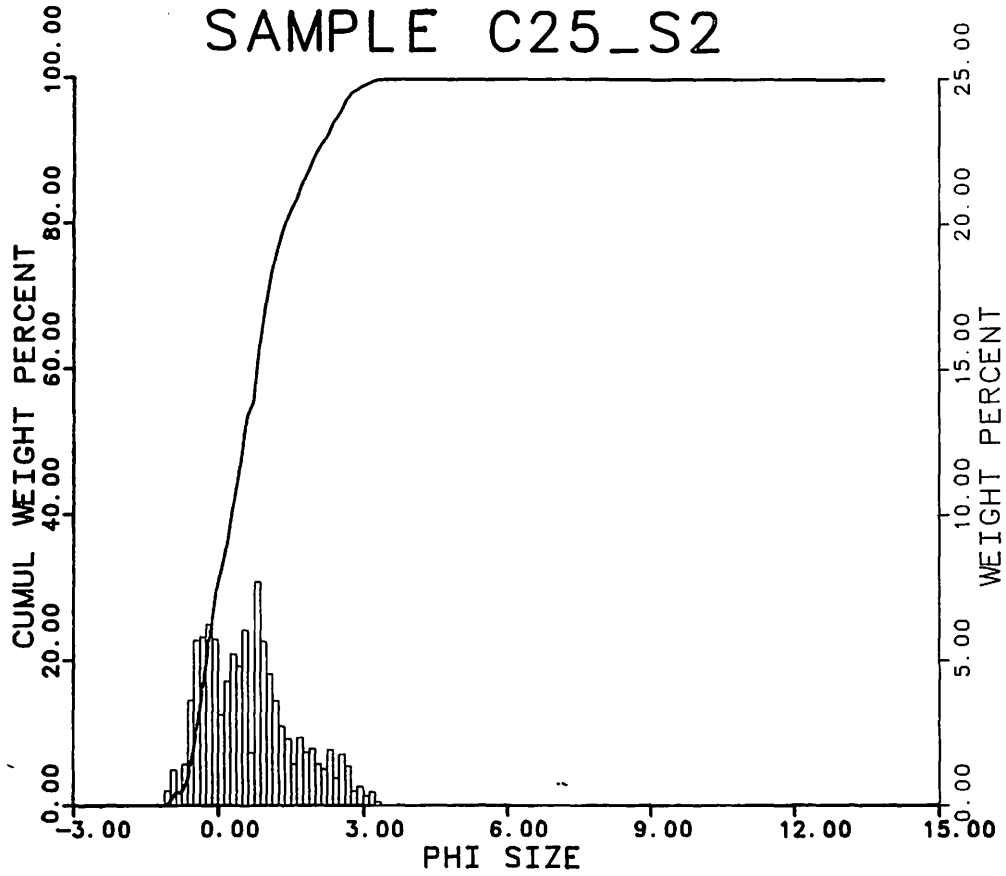
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C25\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

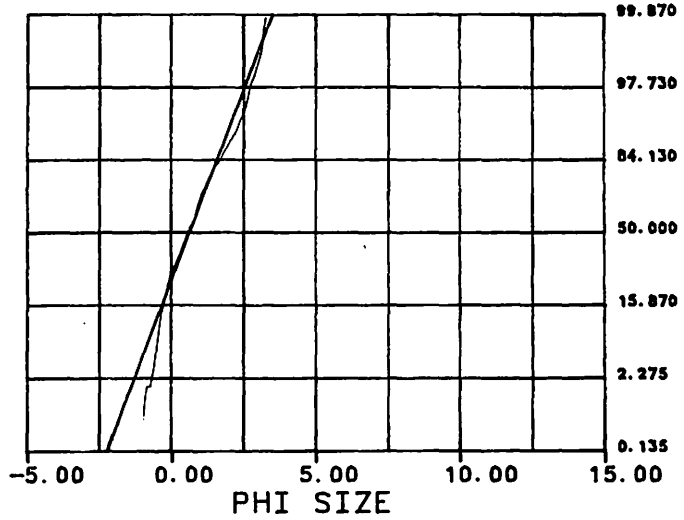
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 19.6  
 SAND \_\_\_\_\_ 72.3  
 V-COARSE SAND \_\_\_\_\_ 21.6  
 COARSE SAND \_\_\_\_\_ 28.0  
 MEDIUM SAND \_\_\_\_\_ 15.0  
 FINE SAND \_\_\_\_\_ 7.1  
 V-FINE SAND \_\_\_\_\_ 0.7  
 SILT \_\_\_\_\_ 8.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 0.551  
 MEAN \_\_\_\_\_ 0.640  
 STD. DEVIATION \_\_\_\_\_ 0.958  
 INC. SKEWNESS \_\_\_\_\_ 0.208  
 INC. KURTOSIS \_\_\_\_\_ 1.021

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 0.662  
 2nd MOMENT \_\_\_\_\_ 0.931  
 3rd MOMENT \_\_\_\_\_ 0.594  
 4th MOMENT \_\_\_\_\_ 2.728

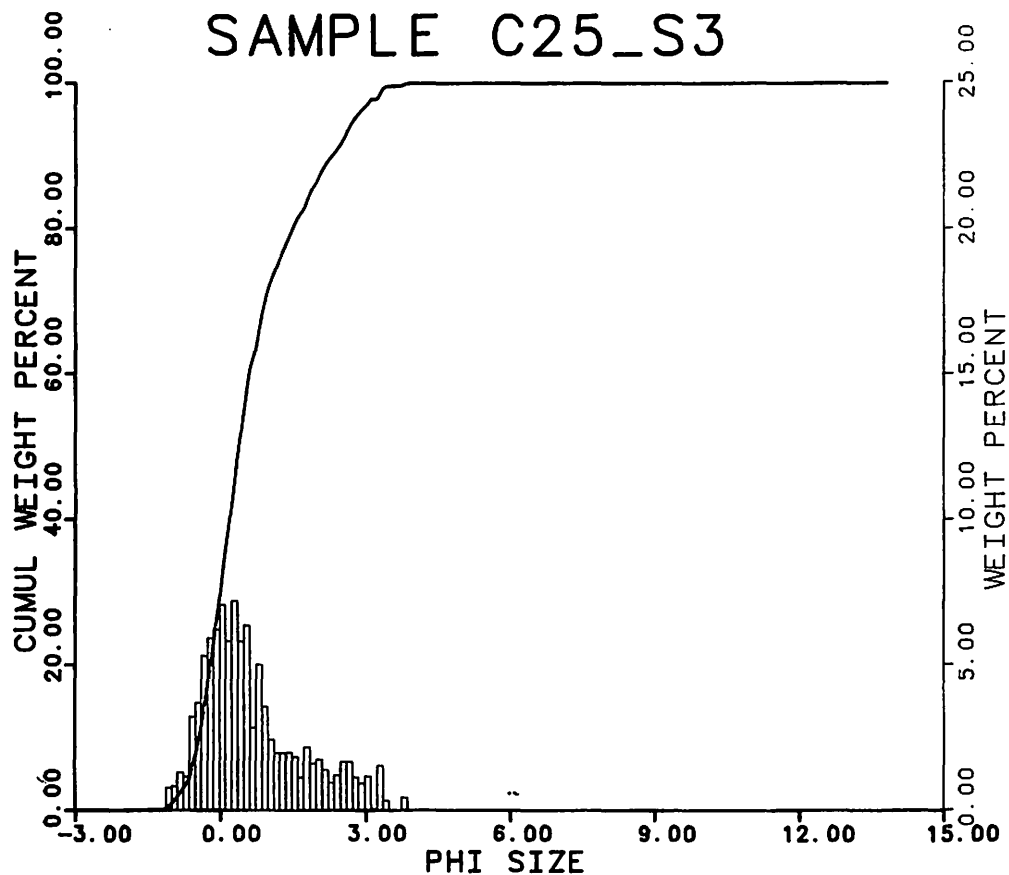
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C25\_S3



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

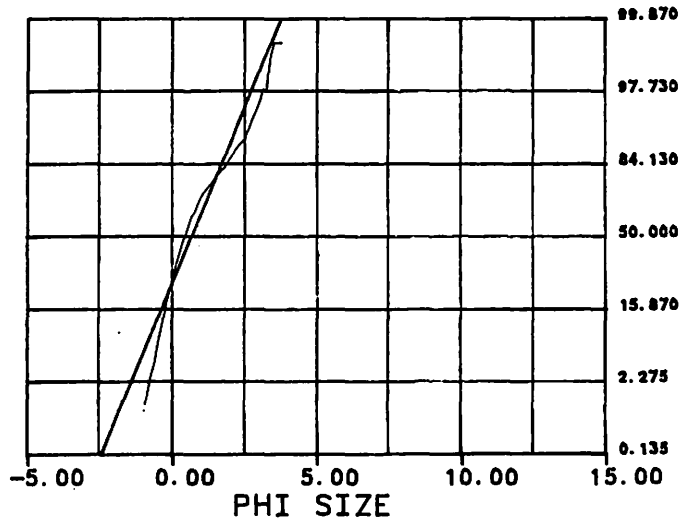
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 5.7  
 SAND \_\_\_\_\_ 83.7  
 V-COARSE SAND \_\_\_\_\_ 23.1  
 COARSE SAND \_\_\_\_\_ 36.6  
 MEDIUM SAND \_\_\_\_\_ 12.4  
 FINE SAND \_\_\_\_\_ 8.7  
 V-FINE SAND \_\_\_\_\_ 2.8  
 SILT \_\_\_\_\_ 10.6  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 0.414  
 MEAN \_\_\_\_\_ 0.684  
 STD. DEVIATION \_\_\_\_\_ 1.030  
 INC. SKEWNESS \_\_\_\_\_ 0.384  
 INC. KURTOSIS \_\_\_\_\_ 1.133

Moment Measures  
 1st MOMENT \_\_\_\_\_ 0.674  
 2nd MOMENT \_\_\_\_\_ 1.025  
 3rd MOMENT \_\_\_\_\_ 0.991  
 4th MOMENT \_\_\_\_\_ 3.140

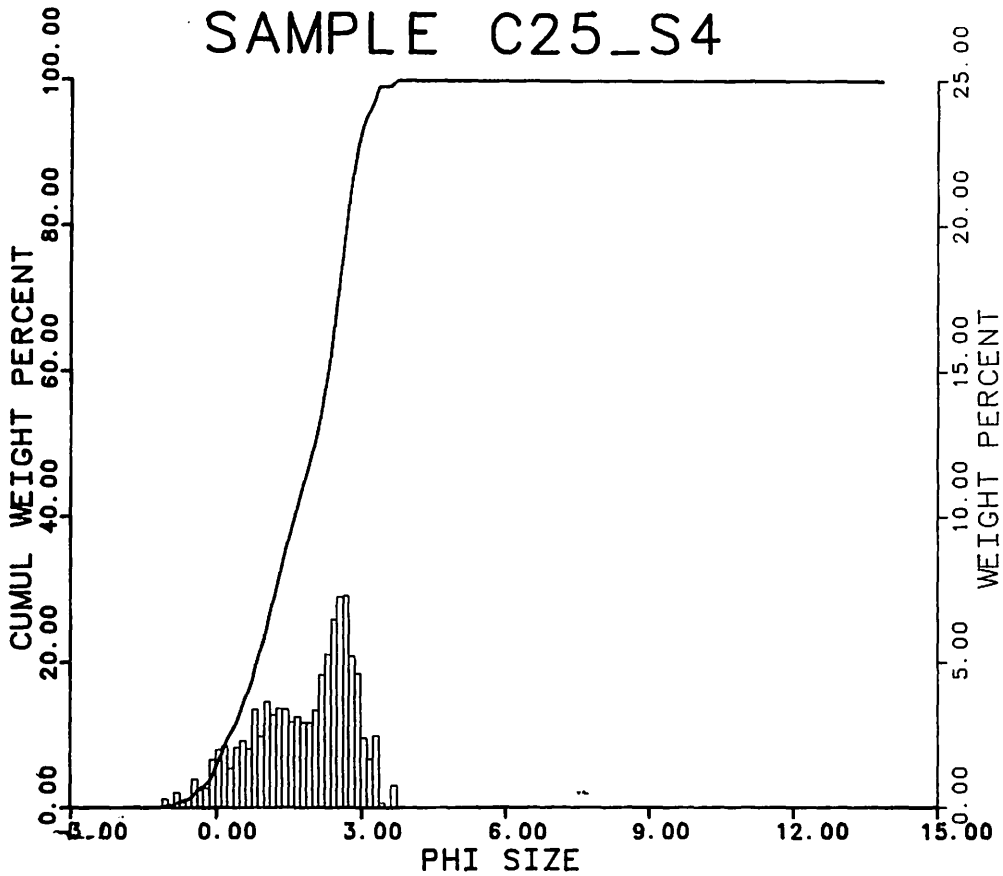
DATE: 7-18-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C25\_S4



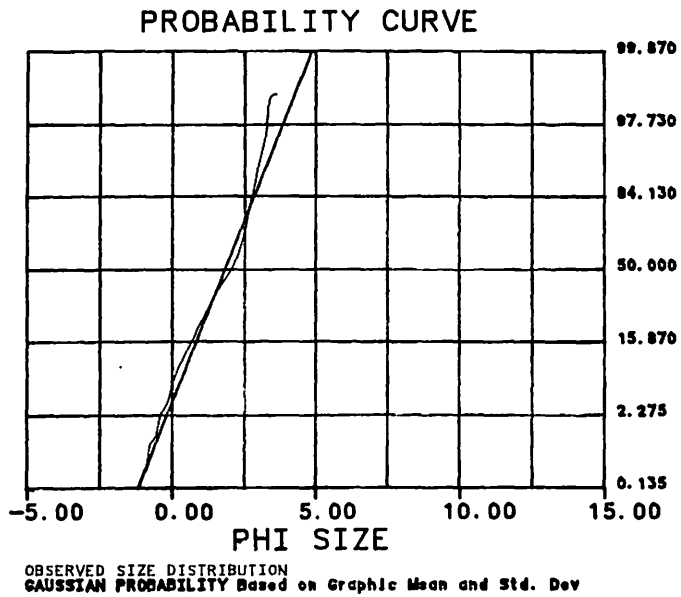
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 80.3  
 V-COARSE SAND \_\_\_\_\_ 3.9  
 COARSE SAND \_\_\_\_\_ 14.2  
 MEDIUM SAND \_\_\_\_\_ 20.8  
 FINE SAND \_\_\_\_\_ 35.5  
 V-FINE SAND \_\_\_\_\_ 6.0  
 SILT \_\_\_\_\_ 18.8  
 CLAY \_\_\_\_\_ 0.0

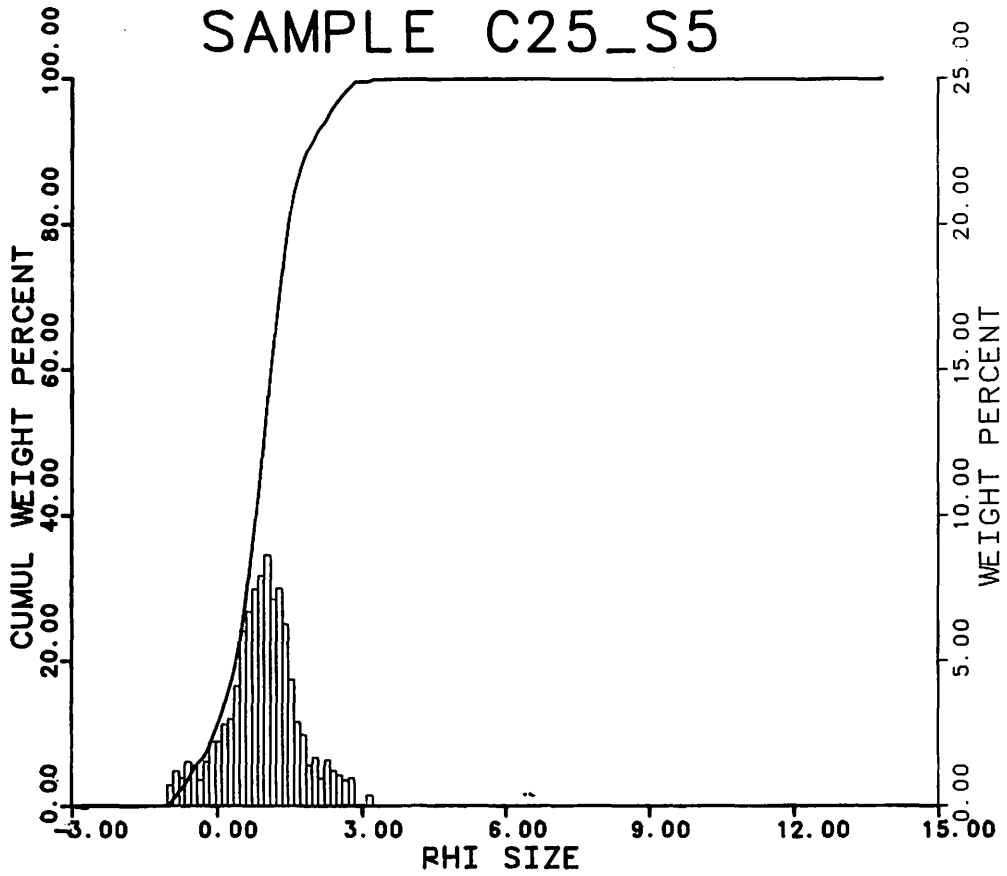
**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.058  
 MEAN \_\_\_\_\_ 1.842  
 STD. DEVIATION \_\_\_\_\_ 1.000  
 INC. SKEWNESS \_\_\_\_\_ -0.313  
 INC. KURTOSIS \_\_\_\_\_ 0.591

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.813  
 2nd MOMENT \_\_\_\_\_ 1.004  
 3rd MOMENT \_\_\_\_\_ -0.550  
 4th MOMENT \_\_\_\_\_ 2.438

DATE: 7-19-88



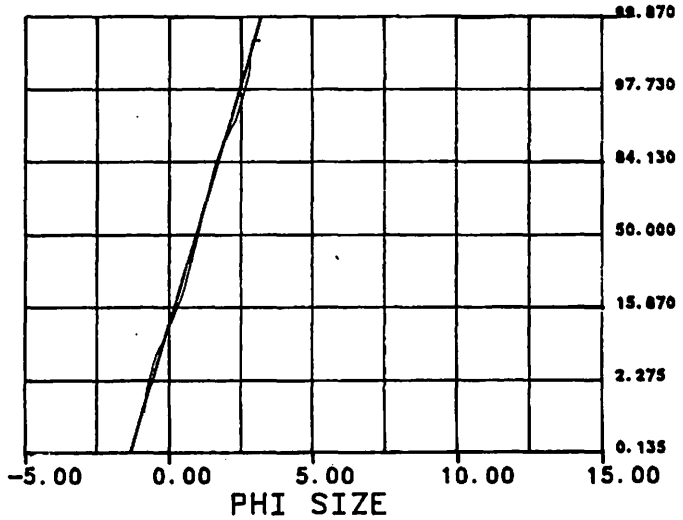
# SAMPLE C25\_S5



<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	1.8
SAND	91.6
V-COARSE SAND	9.6
COARSE SAND	36.9
MEDIUM SAND	37.2
FINE SAND	7.6
V-FINE SAND	0.3
SILT	6.6
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	0.989
MEAN	0.957
STD. DEVIATION	0.755
INC. SKEWNESS	-0.022
INC. KURTOSIS	0.974

<b>Moment Measures</b>	
1st MOMENT	0.988
2nd MOMENT	0.755
3rd MOMENT	-0.022
4th MOMENT	3.328
DATE:	7-19-88

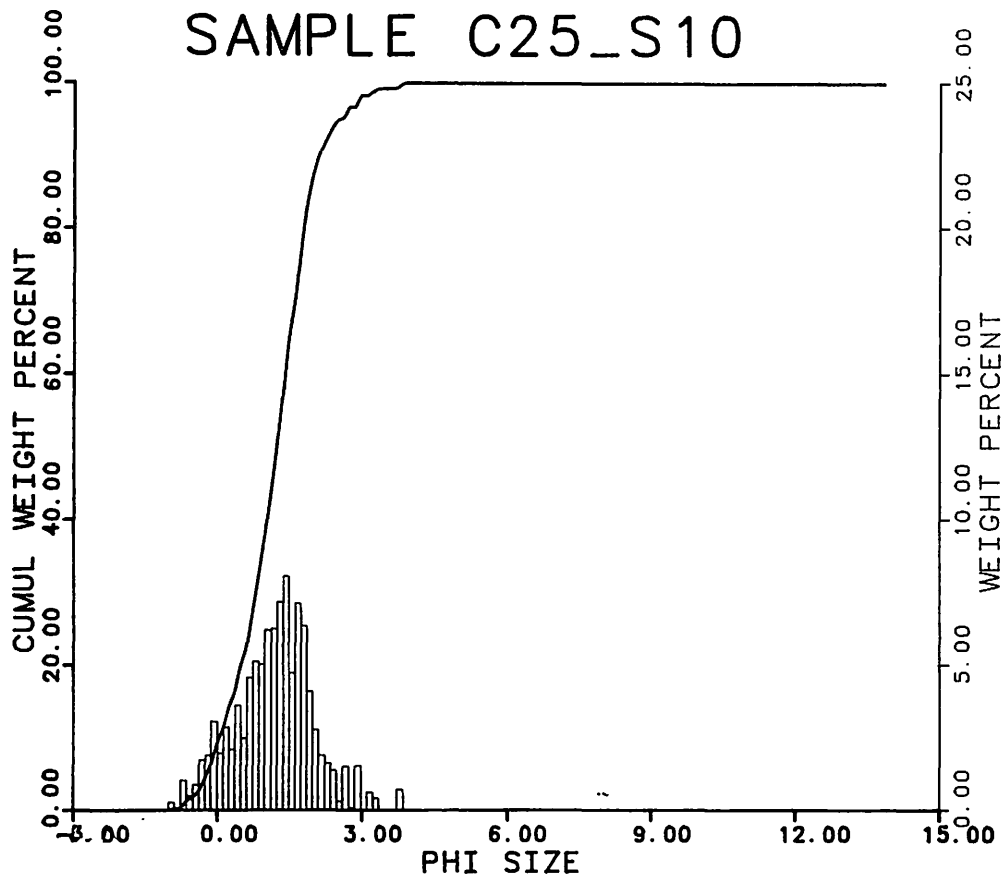
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C25\_S10



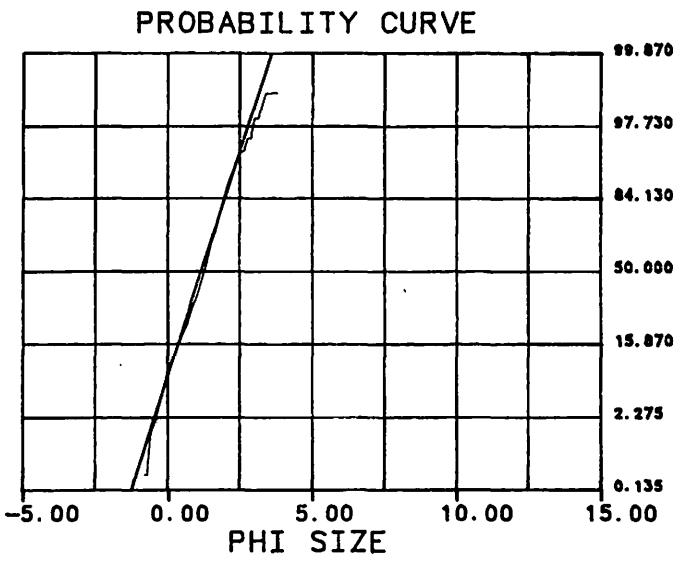
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 15.7  
 SAND \_\_\_\_\_ 77.2  
 V-COARSE SAND - 7.2  
 COARSE SAND \_\_\_\_\_ 21.4  
 MEDIUM SAND \_\_\_\_\_ 38.6  
 FINE SAND \_\_\_\_\_ 8.8  
 V-FINE SAND \_\_\_\_\_ 1.3  
 SILT \_\_\_\_\_ 7.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.257  
 MEAN \_\_\_\_\_ 1.173  
 STD. DEVIATION \_\_\_\_\_ 0.809  
 INC. SKEWNESS \_\_\_\_\_ -0.108  
 INC. KURTOSIS \_\_\_\_\_ 0.798

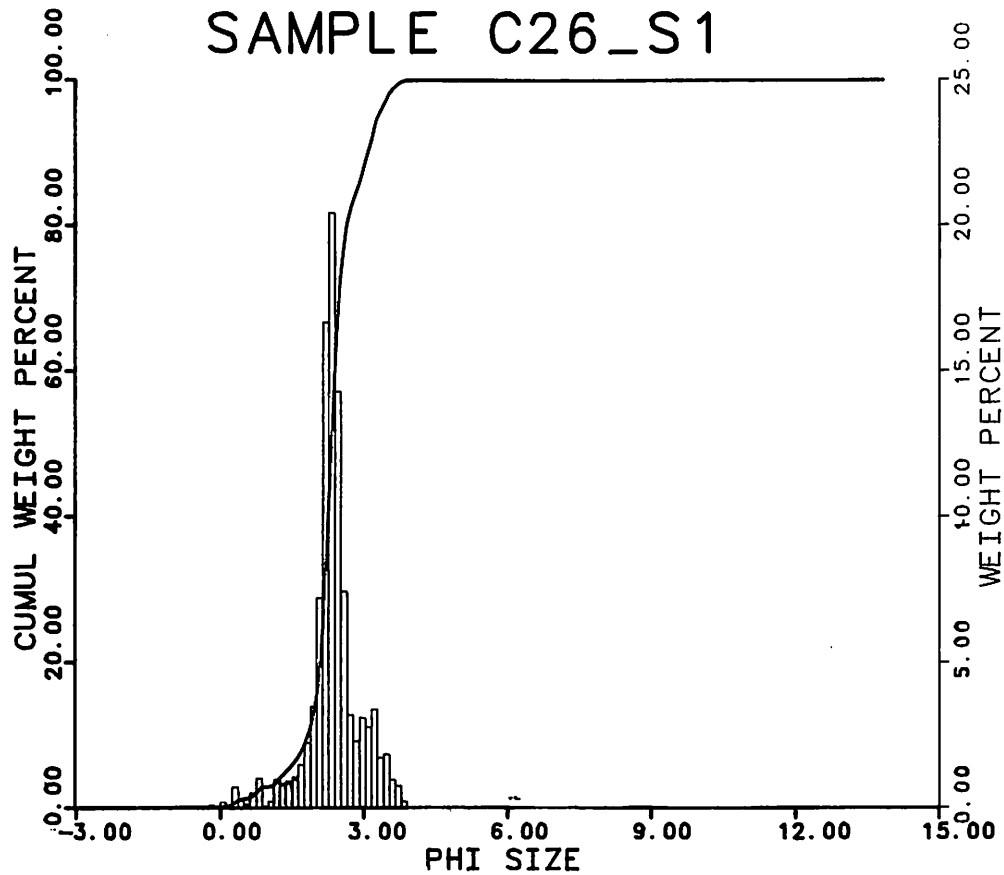
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.202  
 2nd MOMENT \_\_\_\_\_ 0.821  
 3rd MOMENT \_\_\_\_\_ 0.074  
 4th MOMENT \_\_\_\_\_ 3.283

DATE: 7-18-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C26\_S1



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

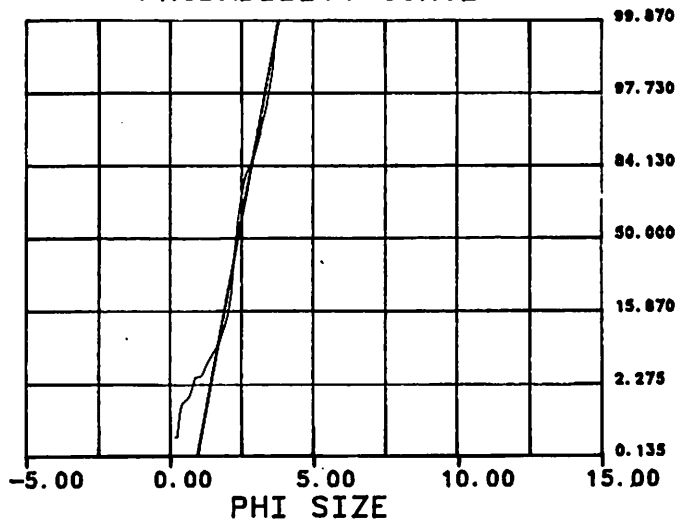
**Grass Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.5  
 SAND \_\_\_\_\_ 92.4  
   V-COARSE SAND \_\_\_\_\_ 0.1  
   COARSE SAND \_\_\_\_\_ 2.5  
   MEDIUM SAND \_\_\_\_\_ 10.2  
   FINE SAND \_\_\_\_\_ 68.8  
   V-FINE SAND \_\_\_\_\_ 10.7  
 SILT \_\_\_\_\_ 7.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.325  
 MEAN \_\_\_\_\_ 2.388  
 STD. DEVIATION \_\_\_\_\_ 0.478  
 INC. SKEWNESS \_\_\_\_\_ 0.128  
 INC. KURTOSIS \_\_\_\_\_ 0.468

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.343  
 2nd MOMENT \_\_\_\_\_ 0.545  
 3rd MOMENT \_\_\_\_\_ -0.741  
 4th MOMENT \_\_\_\_\_ 6.348

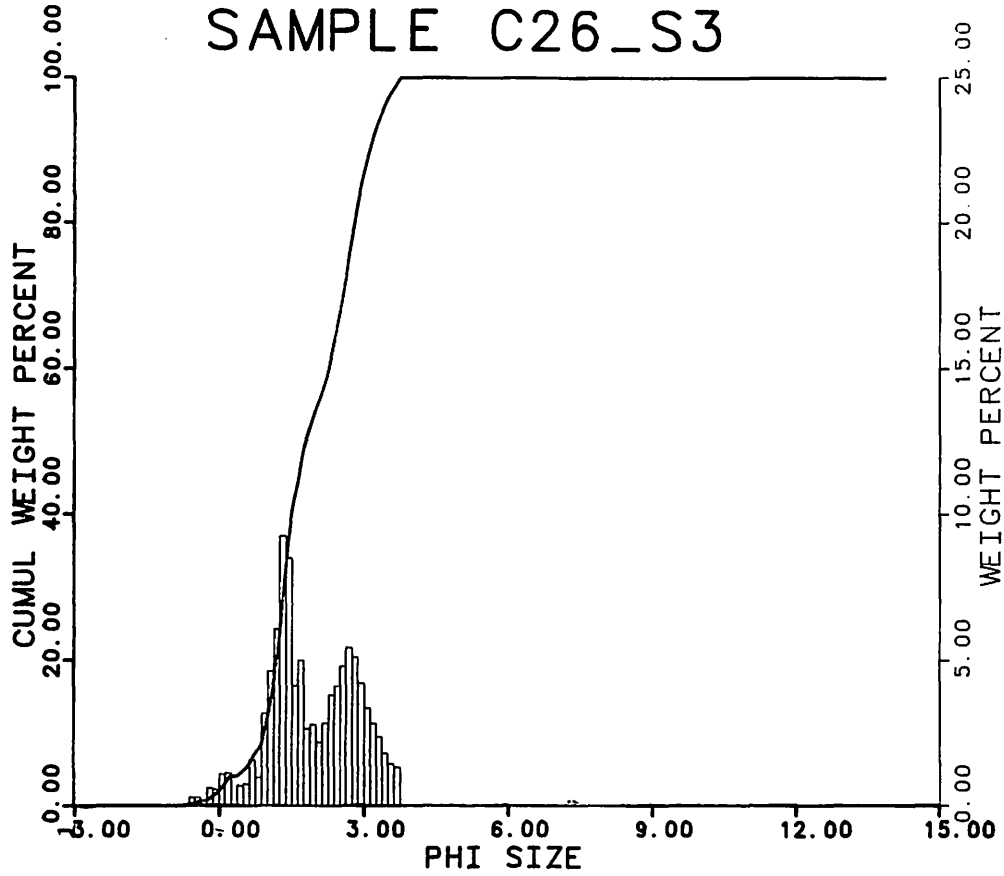
DATE: 7-18-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C26\_S3



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

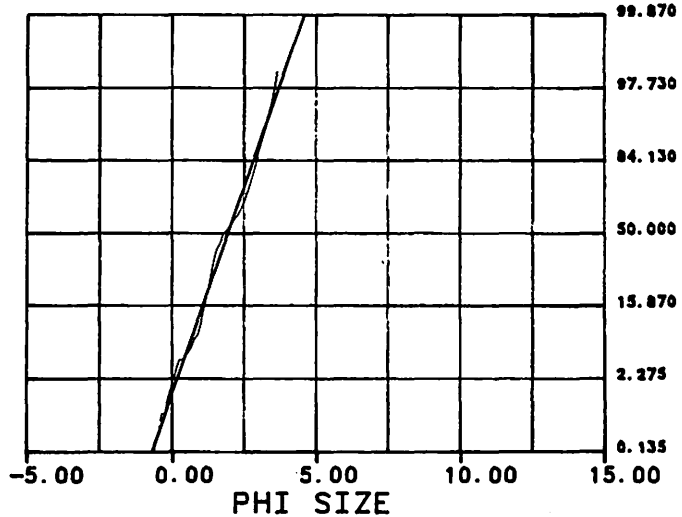
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 8.0  
 SAND \_\_\_\_\_ 86.9  
 V-COARSE SAND - 1.8  
 COARSE SAND \_\_\_\_\_ 8.2  
 MEDIUM SAND \_\_\_\_\_ 37.4  
 FINE SAND \_\_\_\_\_ 28.3  
 V-FINE SAND \_\_\_\_\_ 11.4  
 SILT \_\_\_\_\_ 7.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.805  
 MEAN \_\_\_\_\_ 1.948  
 STD. DEVIATION \_\_\_\_\_ 0.873  
 INC. SKEWNESS \_\_\_\_\_ 0.172  
 INC. KURTOSIS \_\_\_\_\_ 0.533

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.938  
 2nd MOMENT \_\_\_\_\_ 0.893  
 3rd MOMENT \_\_\_\_\_ -0.098  
 4th MOMENT \_\_\_\_\_ 2.415

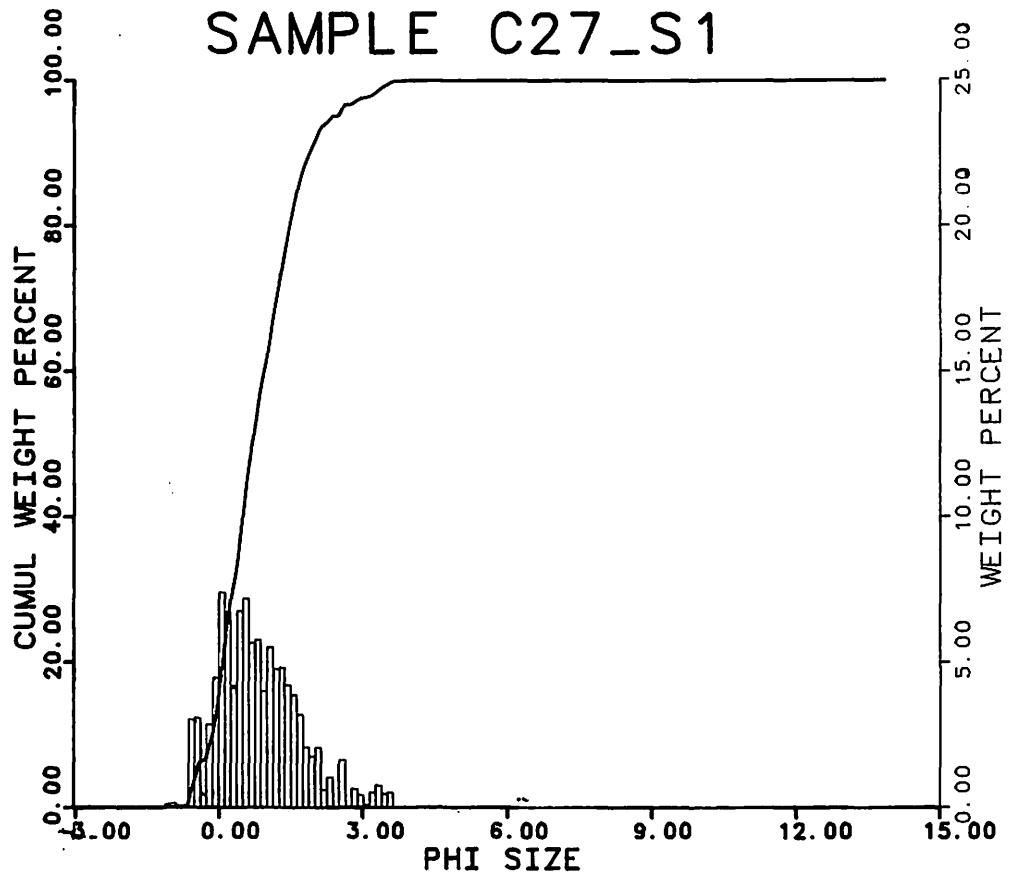
DATE: 7-19-88

## PROBABILITY CURVE

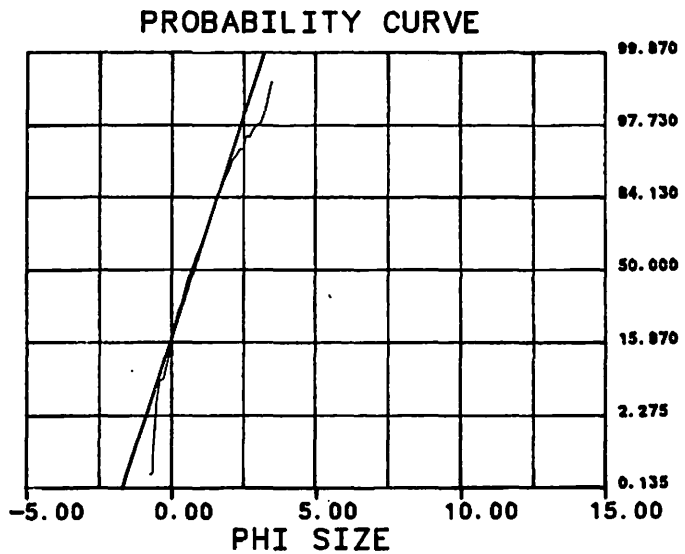


OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C27\_S1

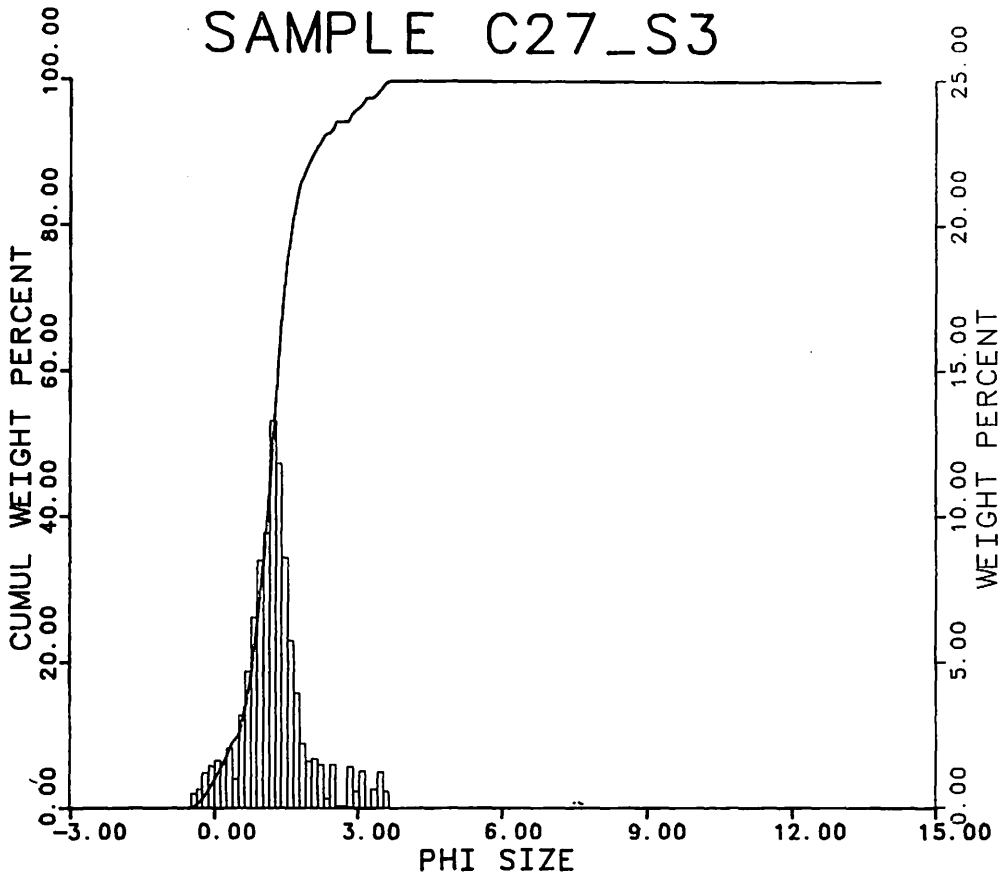


Sample Location	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
Grass Parameters (%)	
GRAVEL	16.0
SAND	81.5
V-COARSE SAND	11.4
COARSE SAND	38.8
MEDIUM SAND	24.5
FINE SAND	5.1
V-FINE SAND	1.8
SILT	2.5
CLAY	0.0
Graphic Measures	
MEDIAN	0.710
MEAN	0.783
STD. DEVIATION	0.815
INC. SKEWNESS	0.161
INC. KURTOSIS	0.910
Moment Measures	
1st MOMENT	0.825
2nd MOMENT	0.838
3rd MOMENT	0.738
4th MOMENT	3.601
DATE:	7-18-88



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C27\_S3



**Sample Location**

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**

GRAVEL \_\_\_\_\_ 7.2  
 SAND \_\_\_\_\_ 89.2  
   V-COARSE SAND - 3.3  
   COARSE SAND - 23.9  
   MEDIUM SAND - 50.4  
   FINE SAND - 6.3  
   V-FINE SAND - 3.3  
 SILT \_\_\_\_\_ 2.8  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**

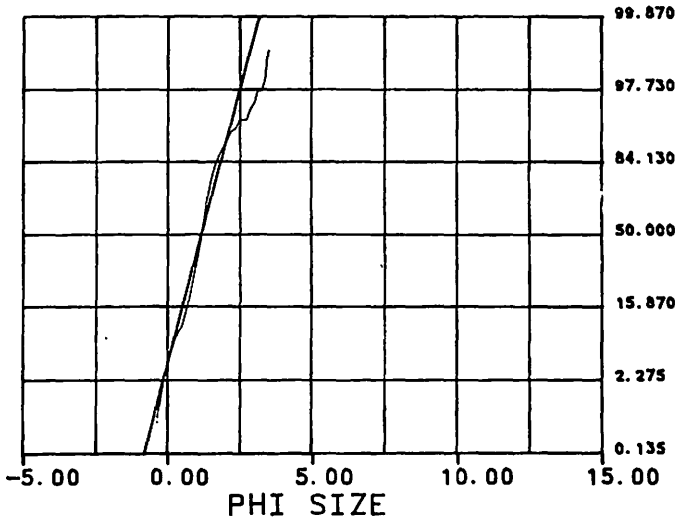
MEDIAN \_\_\_\_\_ 1.198  
 MEAN \_\_\_\_\_ 1.201  
 STD. DEVIATION \_\_\_\_\_ 0.660  
 INC. SKEWNESS \_\_\_\_\_ 0.998  
 INC. KURTOSIS \_\_\_\_\_ 0.988

**Moment Measures**

1st MOMENT \_\_\_\_\_ 1.243  
 2nd MOMENT \_\_\_\_\_ 0.697  
 3rd MOMENT \_\_\_\_\_ 0.815  
 4th MOMENT \_\_\_\_\_ 4.859

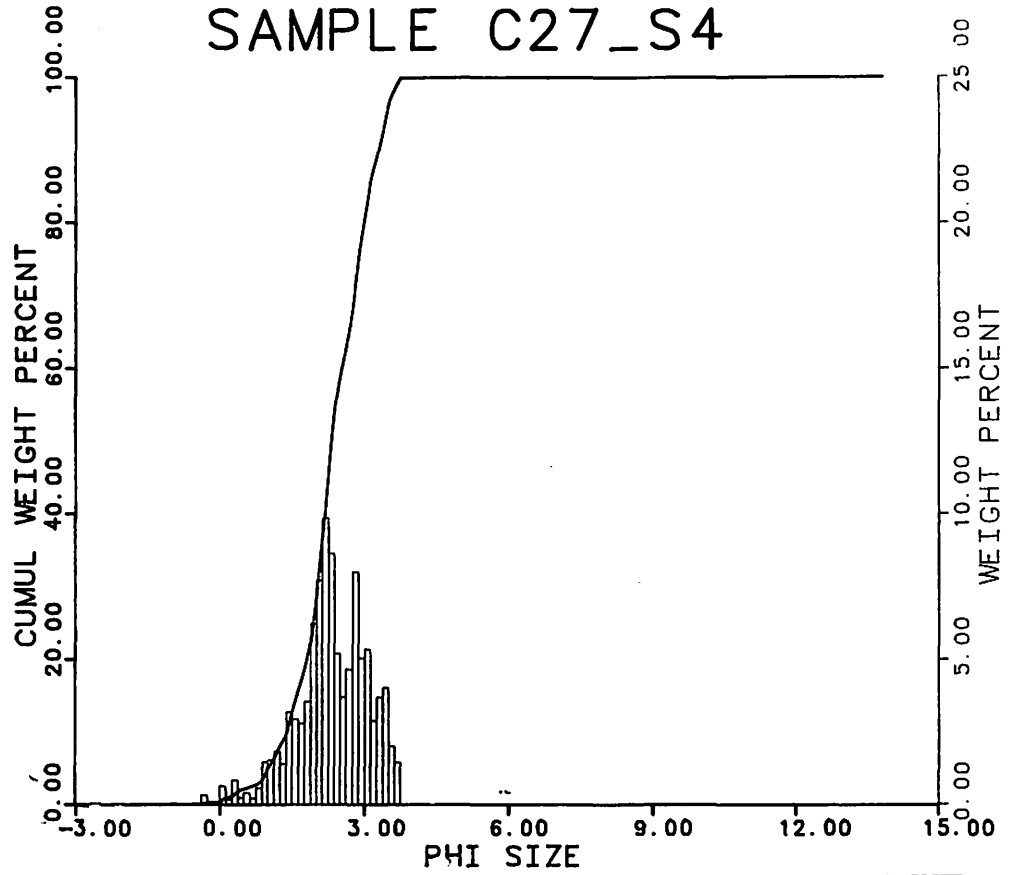
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C27\_S4



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

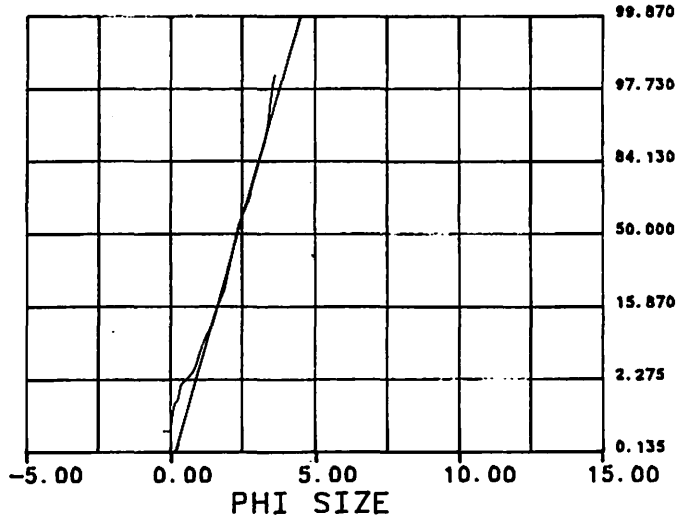
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.6  
 SAND \_\_\_\_\_ 91.0  
 V-COARSE SAND \_\_\_\_\_ 0.3  
 COARSE SAND \_\_\_\_\_ 4.0  
 MEDIUM SAND \_\_\_\_\_ 21.2  
 FINE SAND \_\_\_\_\_ 47.9  
 V-FINE SAND \_\_\_\_\_ 17.6  
 SILT \_\_\_\_\_ 8.4  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.314  
 MEAN \_\_\_\_\_ 2.346  
 STD. DEVIATION \_\_\_\_\_ 0.725  
 INC. SKEWNESS \_\_\_\_\_ 0.002  
 INC. KURTOSIS \_\_\_\_\_ 0.480

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.332  
 2nd MOMENT \_\_\_\_\_ 0.733  
 3rd MOMENT \_\_\_\_\_ -0.584  
 4th MOMENT \_\_\_\_\_ 3.588

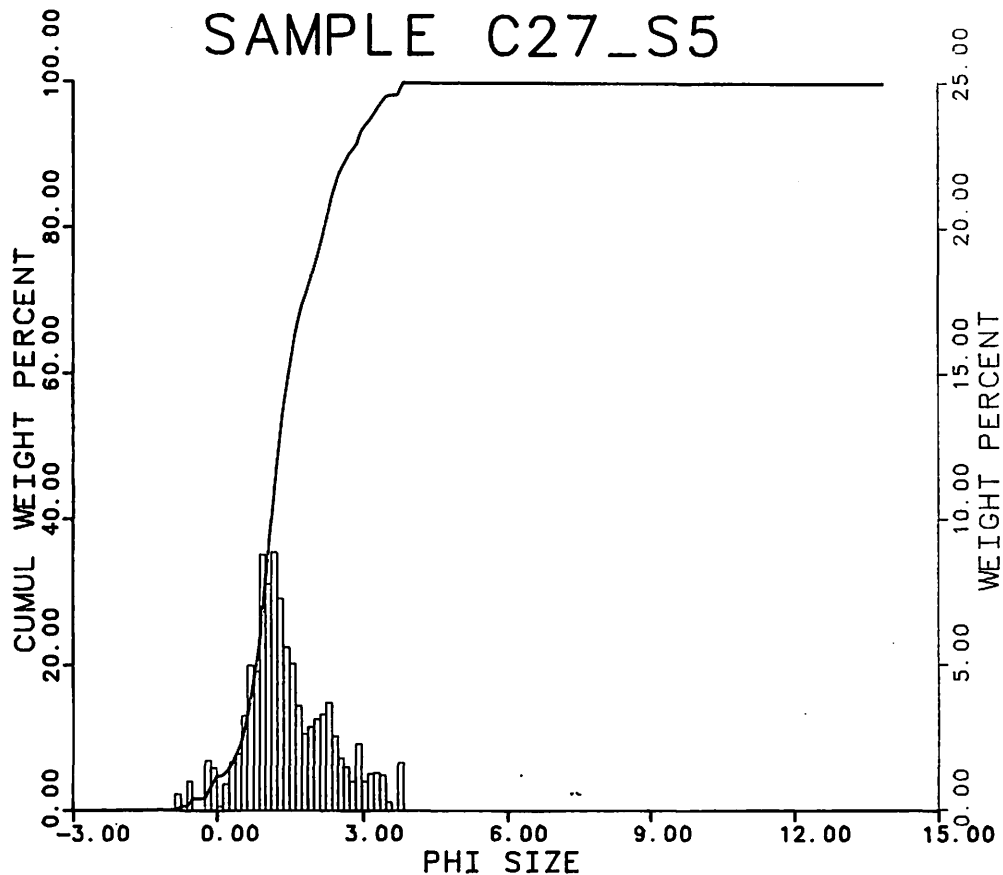
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C27\_S5



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

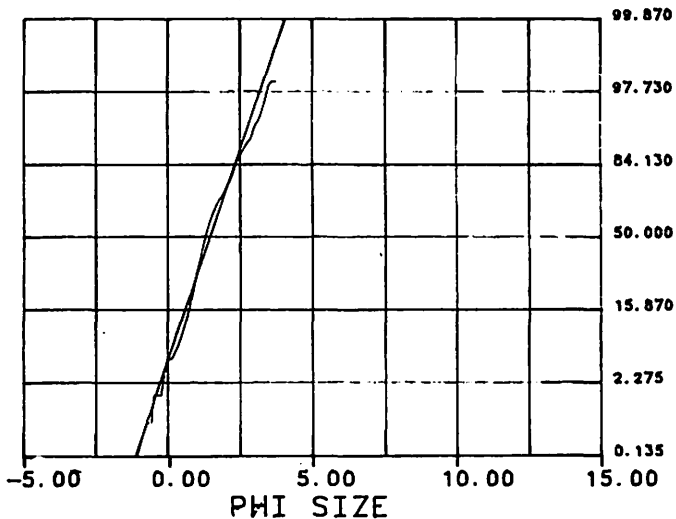
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 13.6  
 SAND \_\_\_\_\_ 78.1  
   V-COARSE SAND - 3.7  
   COARSE SAND    - 20.5  
   MEDIUM SAND   - 34.0  
   FINE SAND       - 14.9  
   V-FINE SAND    - 5.1  
 SILT \_\_\_\_\_ 8.3  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.292  
 MEAN \_\_\_\_\_ 1.454  
 STD. DEVIATION \_\_\_\_\_ 0.870  
 INC. SKEWNESS \_\_\_\_\_ 0.272  
 INC. KURTOSIS \_\_\_\_\_ 0.753

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.461  
 2nd MOMENT \_\_\_\_\_ 0.883  
 3rd MOMENT \_\_\_\_\_ 0.446  
 4th MOMENT \_\_\_\_\_ 3.201

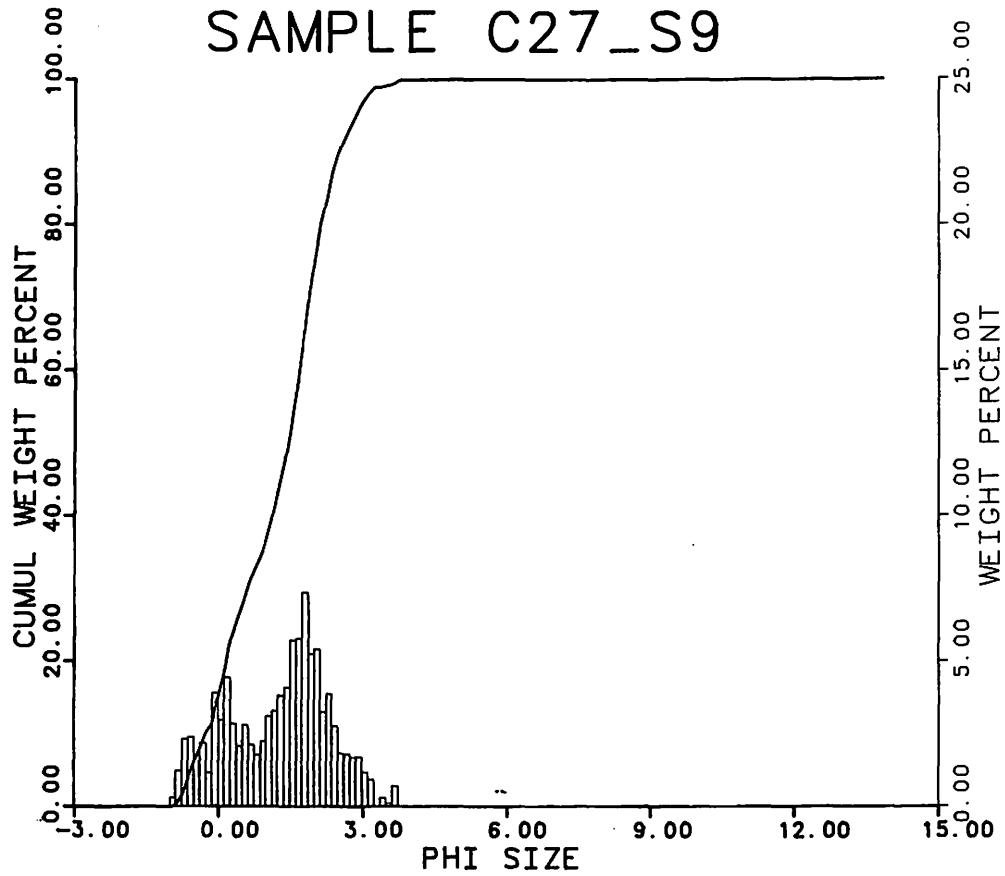
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C27\_S9



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

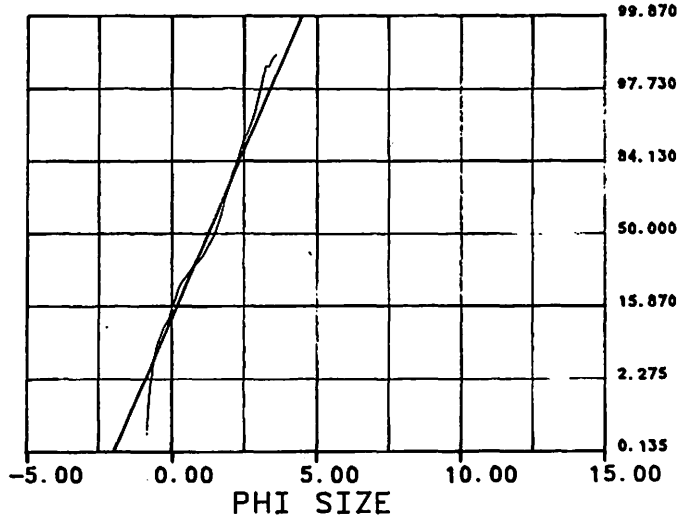
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 40.0  
 SAND \_\_\_\_\_ 50.0  
 V-COARSE SAND - 7.7  
 COARSE SAND \_\_\_\_\_ 10.0  
 MEDIUM SAND \_\_\_\_\_ 19.4  
 FINE SAND \_\_\_\_\_ 11.2  
 V-FINE SAND \_\_\_\_\_ 1.5  
 SILT \_\_\_\_\_ 8.4  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.477  
 MEAN \_\_\_\_\_ 1.260  
 STD. DEVIATION \_\_\_\_\_ 1.078  
 INC. SKEWNESS \_\_\_\_\_ -0.242  
 INC. KURTOSIS \_\_\_\_\_ 0.754

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.263  
 2nd MOMENT \_\_\_\_\_ 1.040  
 3rd MOMENT \_\_\_\_\_ -0.212  
 4th MOMENT \_\_\_\_\_ 2.218

DATE: 7-10-88

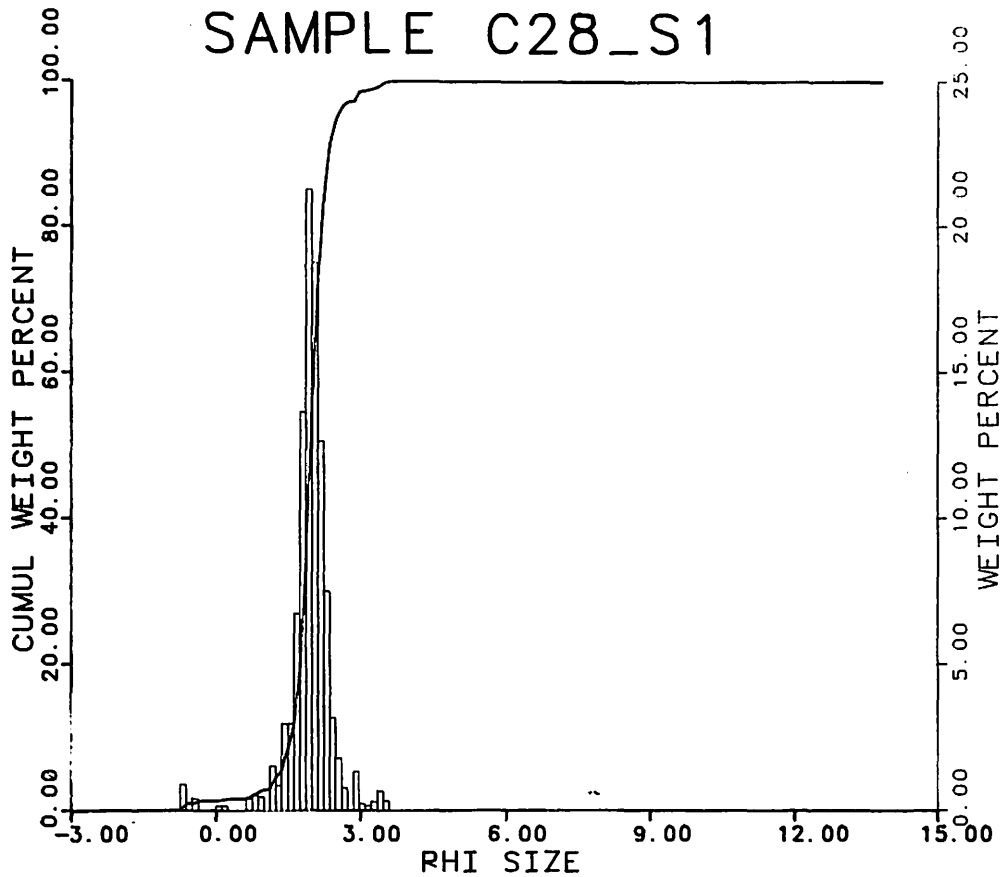
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C28\_S1



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

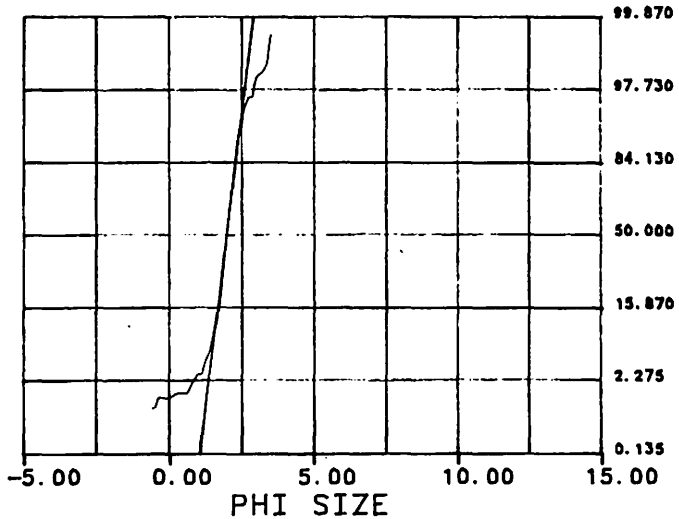
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 98.7  
 V-COARSE SAND - 1.2  
 COARSE SAND - 1.6  
 MEDIUM SAND - 49.1  
 FINE SAND - 45.2  
 V-FINE SAND - 1.5  
 SILT \_\_\_\_\_ 1.3  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 1.984  
 MEAN \_\_\_\_\_ 1.983  
 STD. DEVIATION - 0.312  
 INC. SKEWNESS - -0.045  
 INC. KURTOSIS - 0.342

Moment Measures  
 1st MOMENT \_\_\_\_\_ 1.860  
 2nd MOMENT \_\_\_\_\_ 0.471  
 3rd MOMENT \_\_\_\_\_ -1.894  
 4th MOMENT \_\_\_\_\_ 14.349

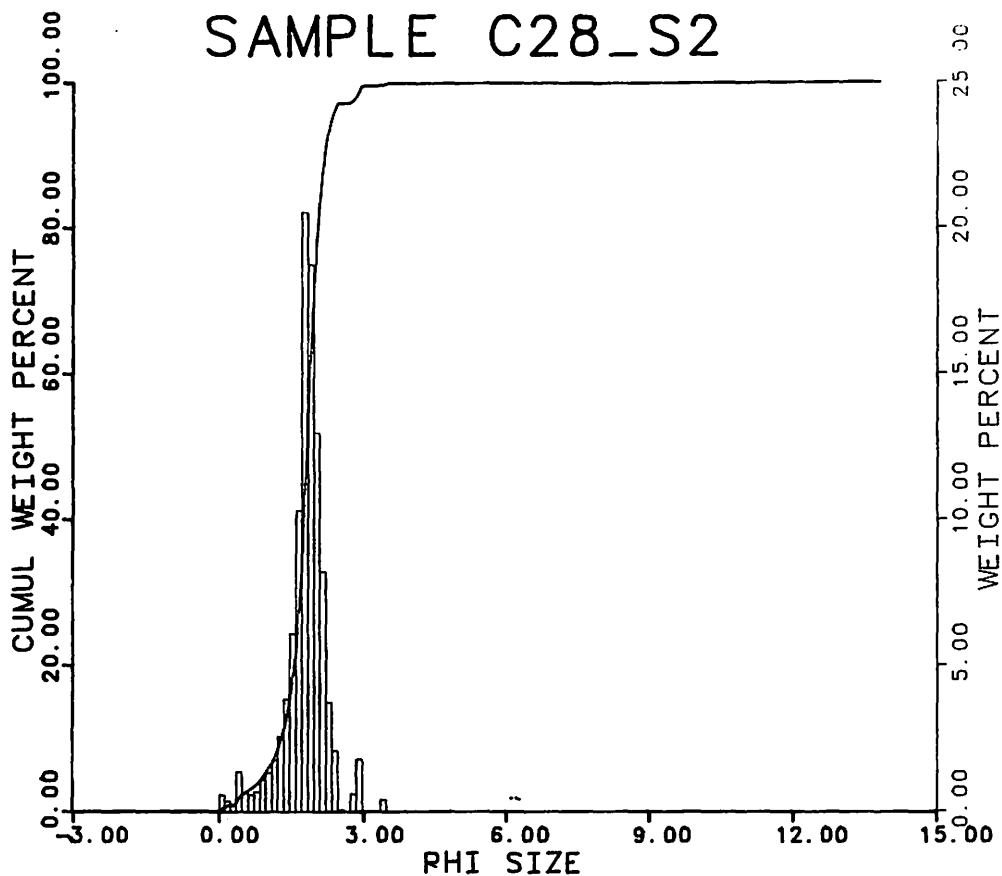
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C28\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

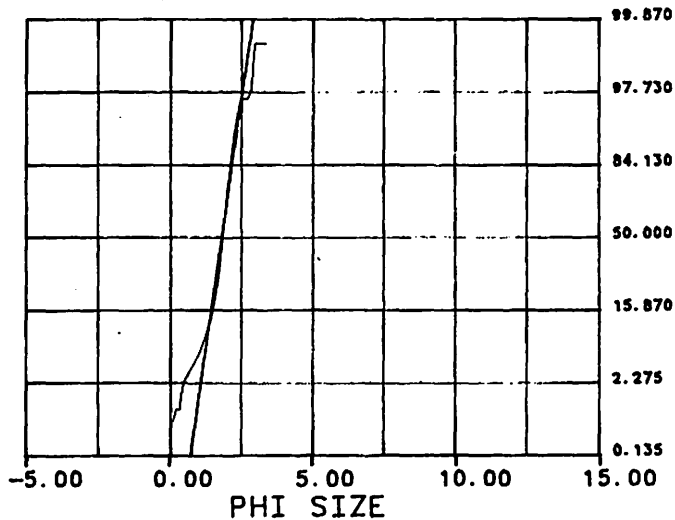
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.2  
 SAND \_\_\_\_\_ 96.8  
 V-COARSE SAND \_\_\_\_\_ 0.0  
 COARSE SAND \_\_\_\_\_ 5.0  
 MEDIUM SAND \_\_\_\_\_ 63.0  
 FINE SAND \_\_\_\_\_ 28.4  
 V-FINE SAND \_\_\_\_\_ 0.4  
 SILT \_\_\_\_\_ 3.0  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.866  
 MEAN \_\_\_\_\_ 1.844  
 STD. DEVIATION \_\_\_\_\_ 0.362  
 INC. SKEWNESS \_\_\_\_\_ -0.190  
 INC. KURTOSIS \_\_\_\_\_ 0.419

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.823  
 2nd MOMENT \_\_\_\_\_ 0.439  
 3rd MOMENT \_\_\_\_\_ -0.838  
 4th MOMENT \_\_\_\_\_ 6.489

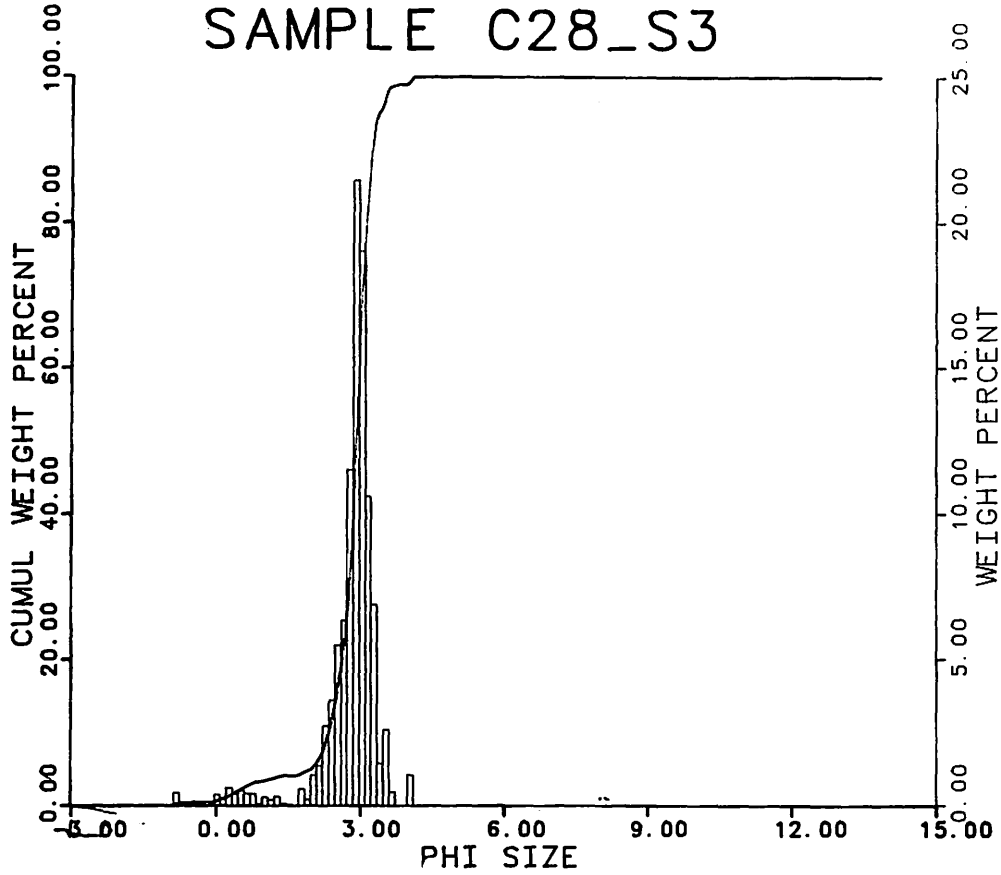
DATE: 7-19-88

## PROBABILITY CURVE



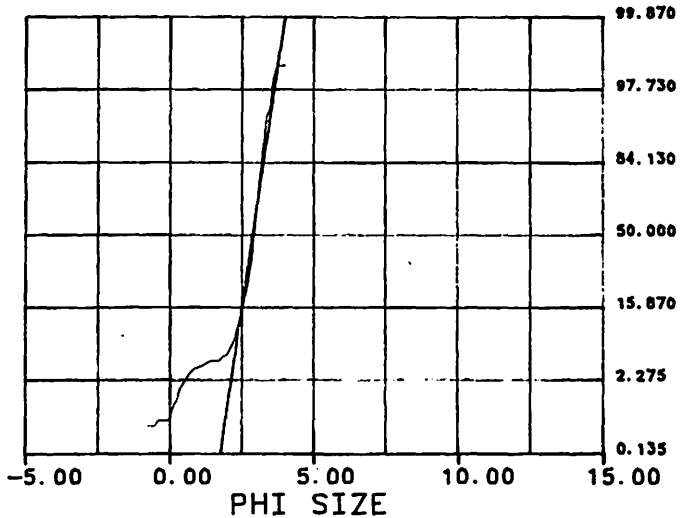
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C28\_S3



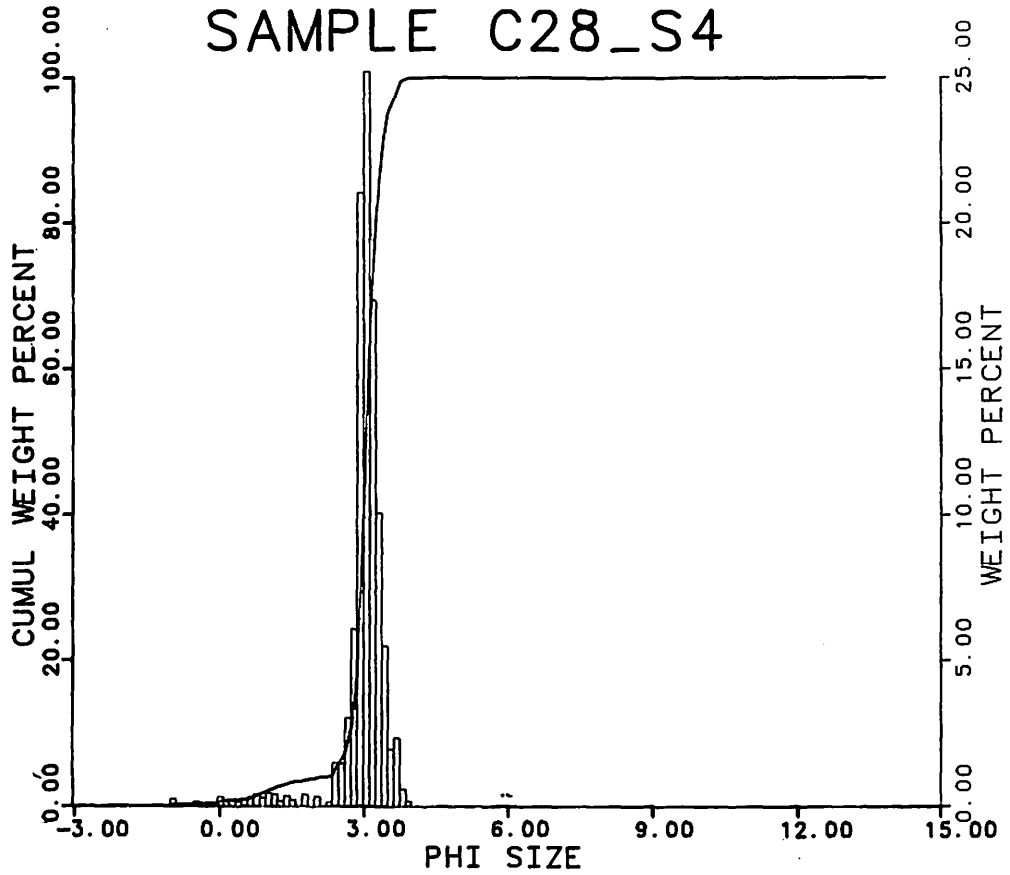
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.4
SAND	94.4
V-COARSE SAND	0.5
COARSE SAND	2.7
MEDIUM SAND	1.4
FINE SAND	50.8
V-FINE SAND	39.0
SILT	5.2
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.853
MEAN	2.808
STD. DEVIATION	0.373
INC. SKEWNESS	-0.278
INC. KURTOSIS	0.287
<b>Moment Measures</b>	
1st MOMENT	2.838
2nd MOMENT	0.600
3rd MOMENT	-2.912
4th MOMENT	14.668
DATE:	7-18-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C28\_S4



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 91.6  
 V-COARSE SAND - 0.3  
 COARSE SAND \_\_\_\_\_ 1.4  
 MEDIUM SAND \_\_\_\_\_ 1.7  
 FINE SAND \_\_\_\_\_ 30.6  
 V-FINE SAND \_\_\_\_\_ 57.6  
 SILT \_\_\_\_\_ 8.4  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

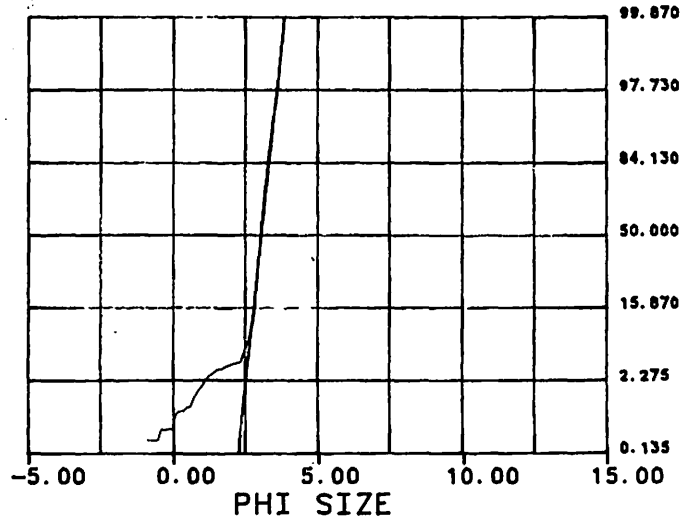
MEDIAN \_\_\_\_\_ 3.064  
 MEAN \_\_\_\_\_ 3.081  
 STD. DEVIATION \_\_\_\_\_ 0.283  
 INC. SKEWNESS \_\_\_\_\_ -0.026  
 INC. KURTOSIS \_\_\_\_\_ 0.212

### Moment Measures

1st MOMENT \_\_\_\_\_ 3.004  
 2nd MOMENT \_\_\_\_\_ 0.505  
 3rd MOMENT \_\_\_\_\_ -3.817  
 4th MOMENT \_\_\_\_\_ 22.939

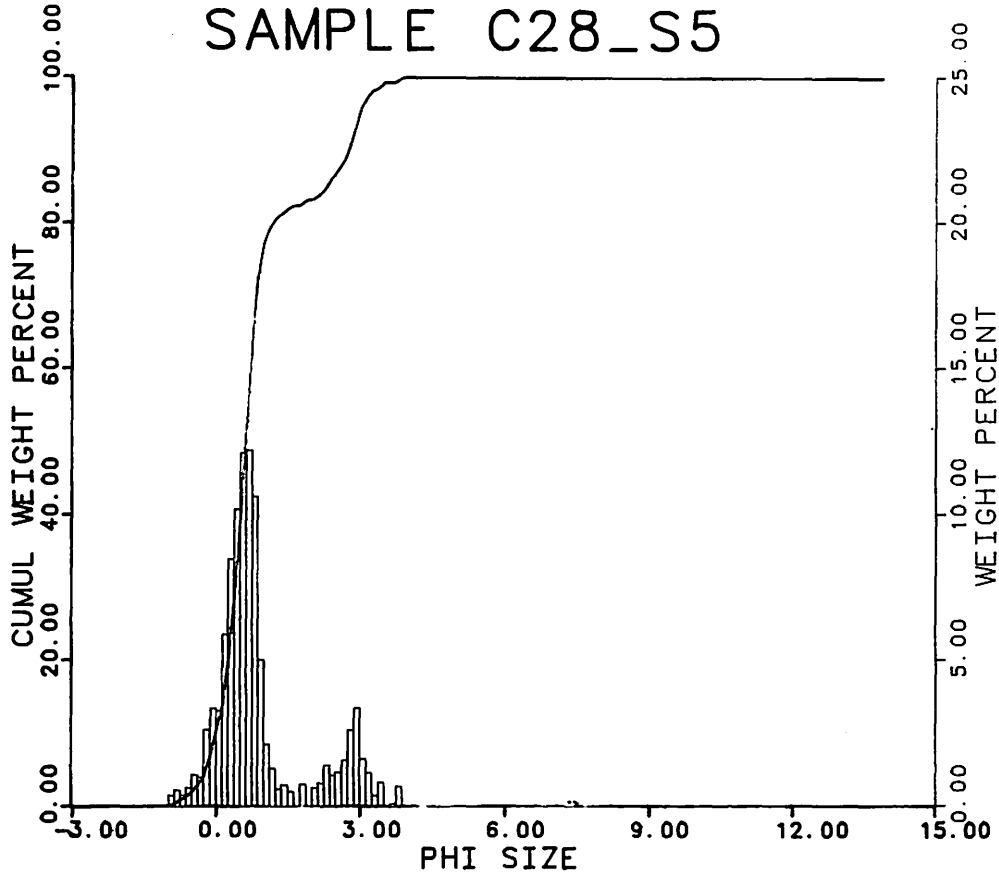
DATE: 7-19-88

### PROBABILITY CURVE



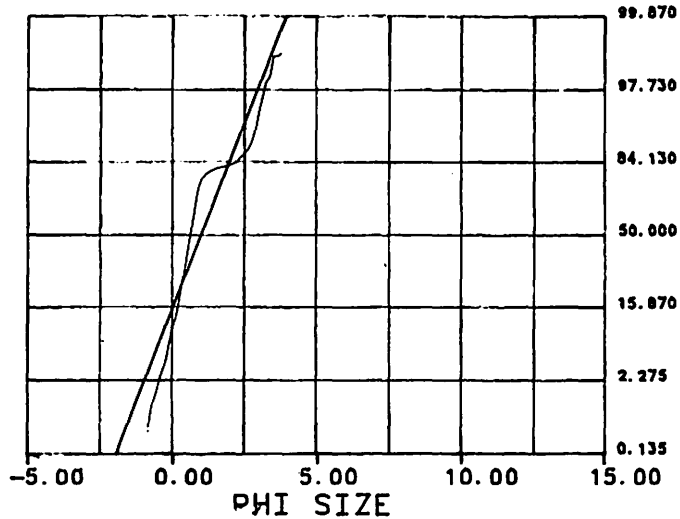
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C28\_S5



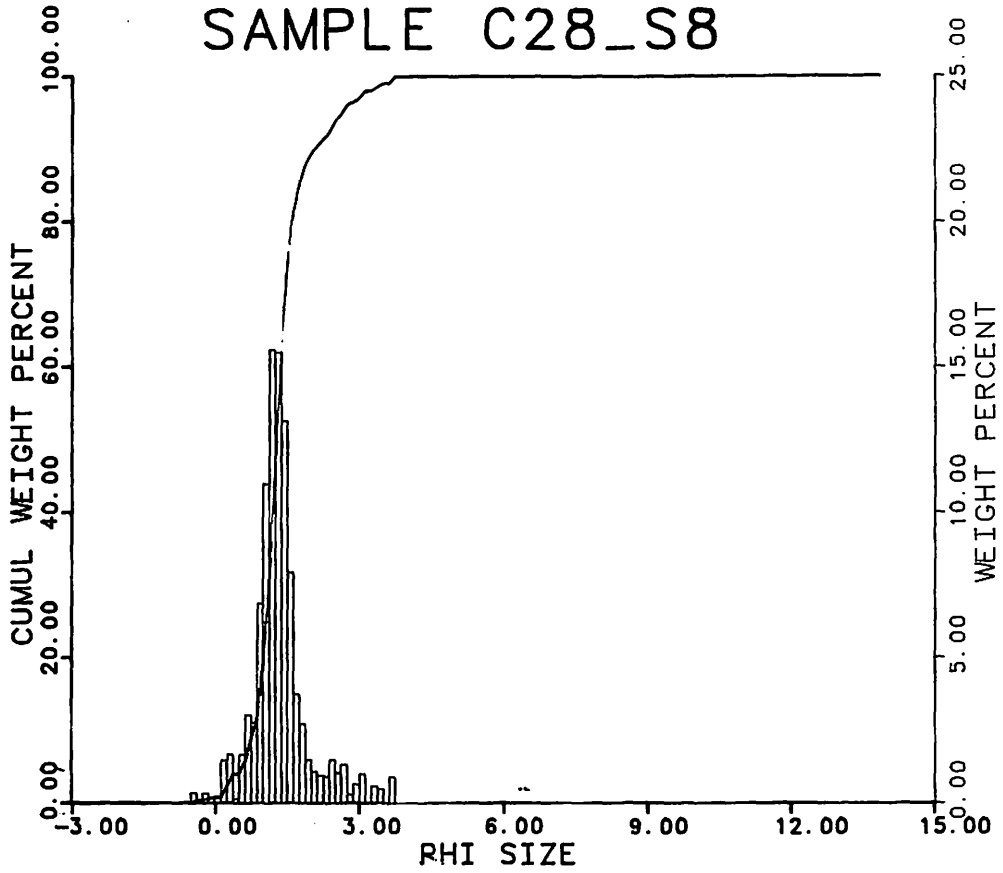
<b>Sample Location</b>	
LATITUDE	0.0-0
LONGITUDE	0.0-0
DEPTH (m)	0.00
<b>Gross Parameters (X)</b>	
GRAVEL	3.9
SAND	93.0
V-COARSE SAND	9.1
COARSE SAND	62.8
MEDIUM SAND	5.4
FINE SAND	11.5
V-FINE SAND	4.2
SILT	3.1
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	0.630
MEAN	0.999
STD. DEVIATION	0.978
INC. SKEWNESS	0.519
INC. KURTOSIS	1.872
<b>Moment Measures</b>	
1st MOMENT	0.993
2nd MOMENT	0.964
3rd MOMENT	1.254
4th MOMENT	3.772
DATE:	7-19-88

## PROBABILITY CURVE



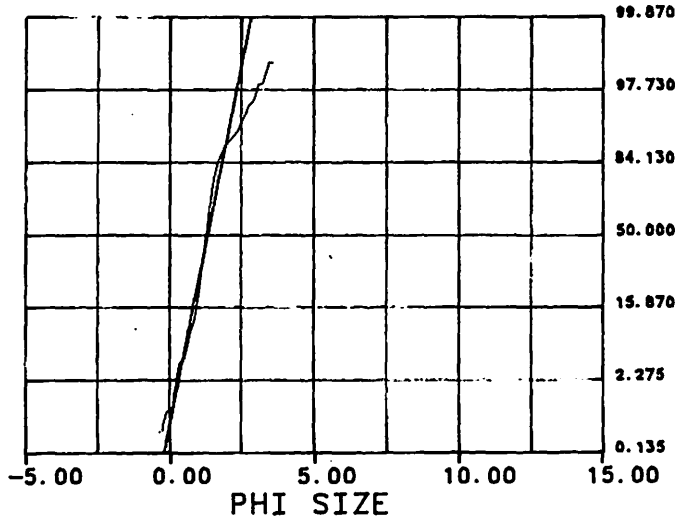
OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C28\_S8



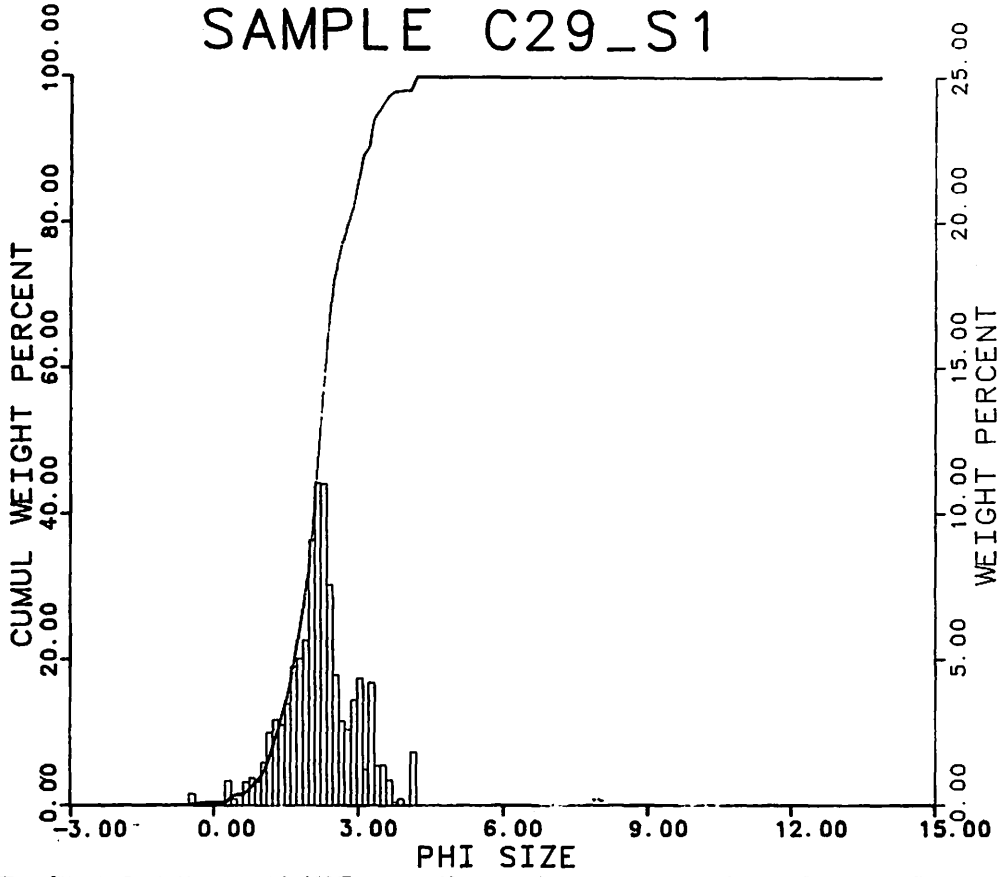
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	3.6
SAND	93.7
V-COARSE SAND	0.7
COARSE SAND	16.4
MEDIUM SAND	66.6
FINE SAND	7.2
V-FINE SAND	2.7
SILT	2.7
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	1.291
MEAN	1.319
STD. DEVIATION	0.501
INC. SKEWNESS	0.209
INC. KURTOSIS	0.783
<b>Moment Measures</b>	
1st MOMENT	1.368
2nd MOMENT	0.595
3rd MOMENT	1.191
4th MOMENT	6.235
DATE:	7-19-88

## PROBABILITY CURVE



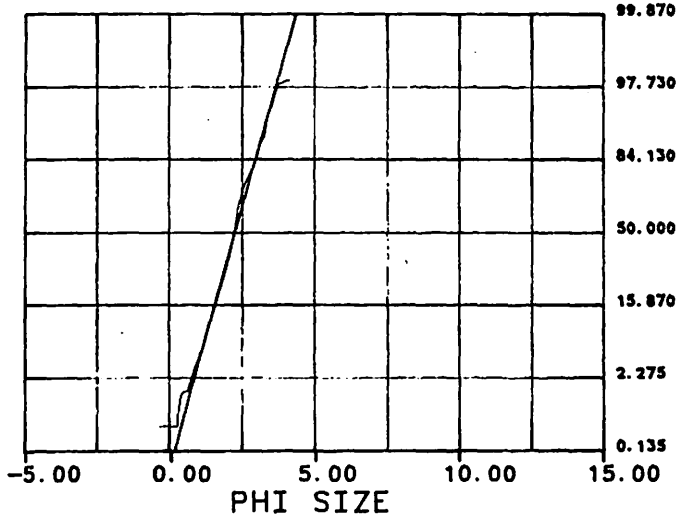
OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C29\_S1



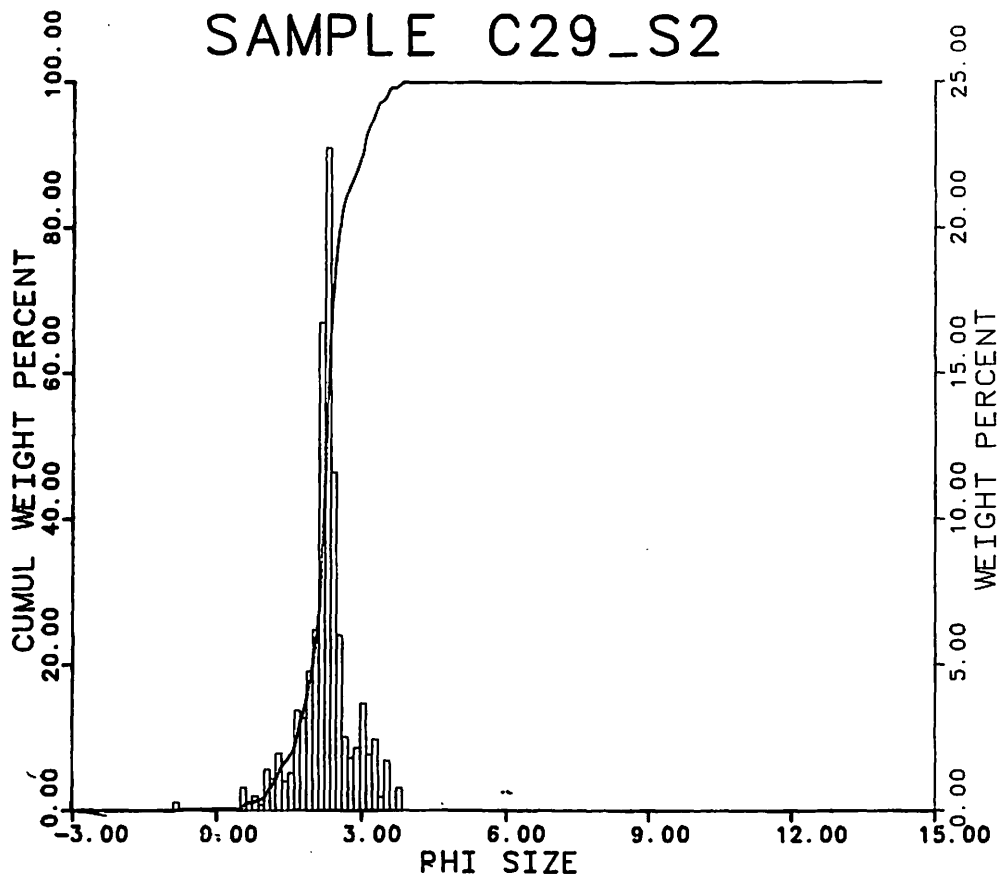
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	2.4
SAND	83.9
V-COARSE SAND	0.4
COARSE SAND	3.4
MEDIUM SAND	27.2
FINE SAND	49.9
V-FINE SAND	13.0
SILT	3.7
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.221
MEAN	2.263
STD. DEVIATION	0.703
INC. SKEWNESS	0.062
INC. KURTOSIS	0.517
<b>Moment Measures</b>	
1st MOMENT	2.240
2nd MOMENT	0.721
3rd MOMENT	0.003
4th MOMENT	3.808
DATE:	7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C29\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

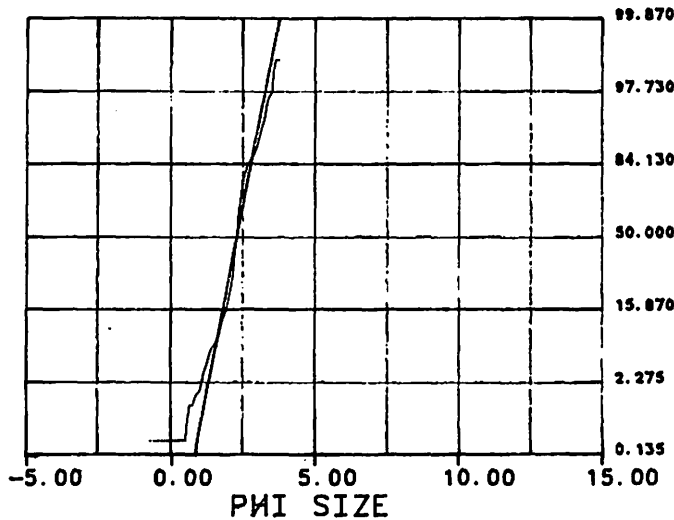
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.5  
 SAND \_\_\_\_\_ 95.1  
   V-COARSE SAND - 0.2  
   COARSE SAND - 1.3  
   MEDIUM SAND - 17.0  
   FINE SAND - 66.2  
   V-FINE SAND - 10.3  
 SILT \_\_\_\_\_ 4.4  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.291  
 MEAN \_\_\_\_\_ 2.295  
 STD. DEVIATION \_\_\_\_\_ 0.491  
 INC. SKEWNESS \_\_\_\_\_ 0.005  
 INC. KURTOSIS \_\_\_\_\_ 0.496

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.291  
 2nd MOMENT \_\_\_\_\_ 0.542  
 3rd MOMENT \_\_\_\_\_ -0.468  
 4th MOMENT \_\_\_\_\_ 6.425

DATE: 7-19-88

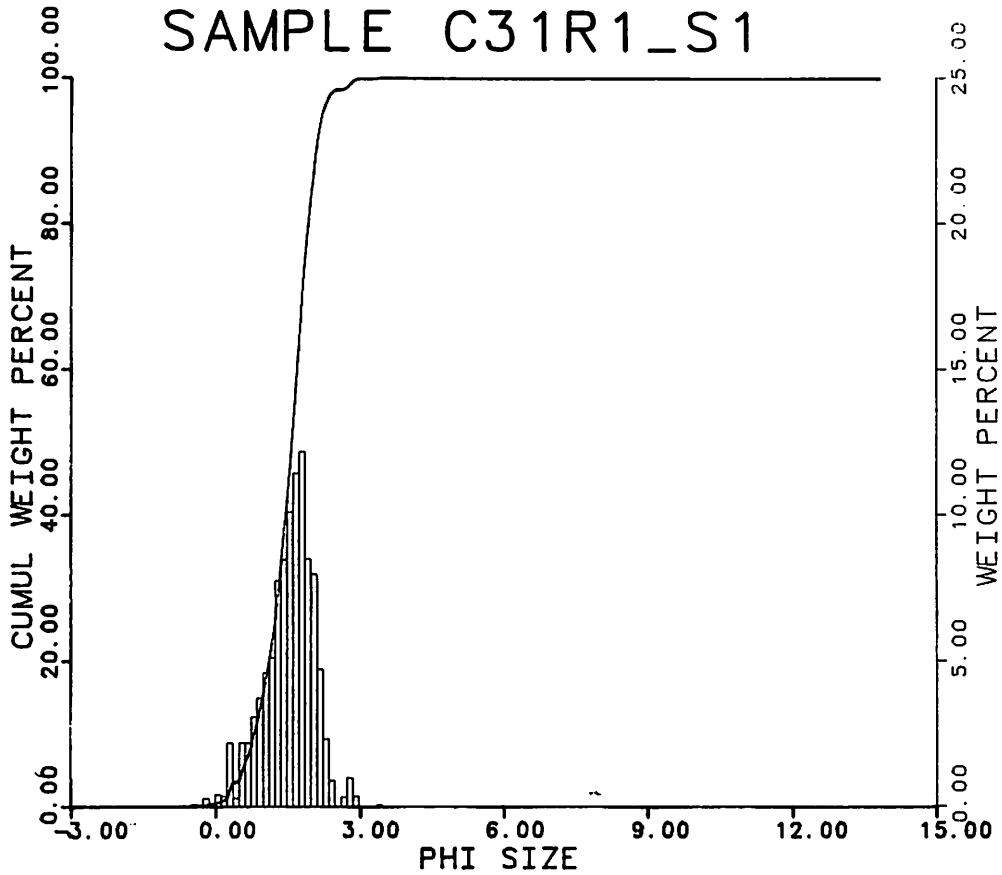
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C31R1\_S1



## Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

## Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.3  
 SAND \_\_\_\_\_ 97.8  
 V-COARSE SAND \_\_\_\_\_ 0.4  
 COARSE SAND \_\_\_\_\_ 13.9  
 MEDIUM SAND \_\_\_\_\_ 66.4  
 FINE SAND \_\_\_\_\_ 17.0  
 V-FINE SAND \_\_\_\_\_ 0.1  
 SILT \_\_\_\_\_ 1.9  
 CLAY \_\_\_\_\_ 0.0

## Graphic Measures

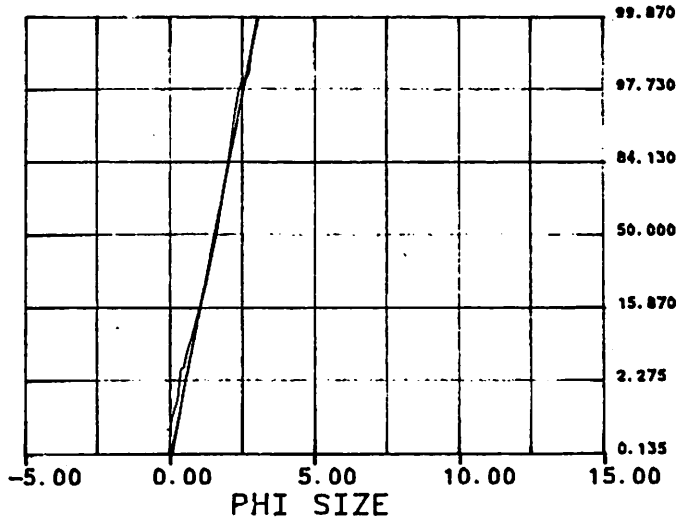
MEDIAN \_\_\_\_\_ 1.619  
 MEAN \_\_\_\_\_ 1.560  
 STD. DEVIATION \_\_\_\_\_ 0.498  
 INC. SKEWNESS \_\_\_\_\_ -0.212  
 INC. KURTOSIS \_\_\_\_\_ 0.496

## Moment Measures

1st MOMENT \_\_\_\_\_ 1.548  
 2nd MOMENT \_\_\_\_\_ 0.514  
 3rd MOMENT \_\_\_\_\_ -0.503  
 4th MOMENT \_\_\_\_\_ 3.616

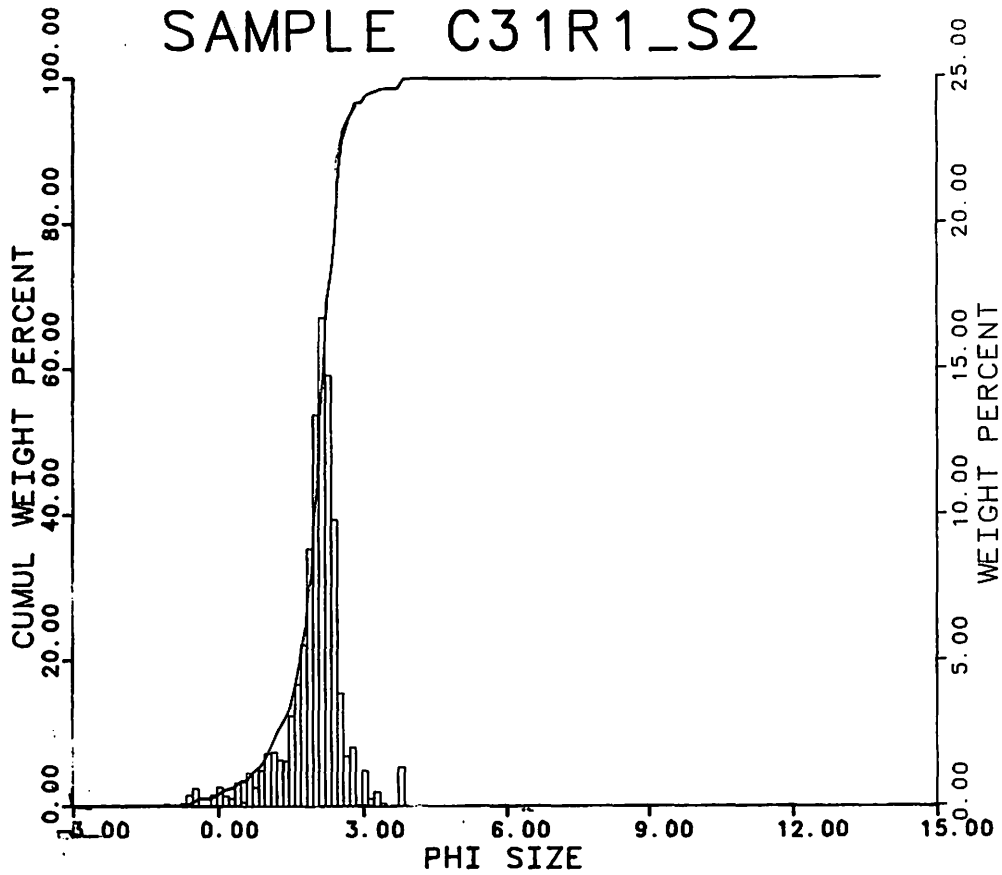
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C31R1\_S2



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

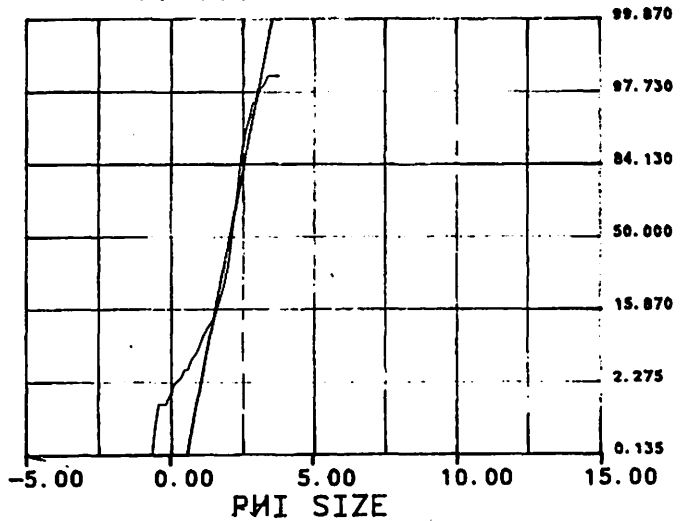
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.4  
 SAND \_\_\_\_\_ 97.1  
 V-COARSE SAND - 1.3  
 COARSE SAND \_\_\_\_\_ 4.8  
 MEDIUM SAND \_\_\_\_\_ 27.3  
 FINE SAND \_\_\_\_\_ 60.5  
 V-FINE SAND \_\_\_\_\_ 3.1  
 SILT \_\_\_\_\_ 2.5  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 2.141  
 MEAN \_\_\_\_\_ 2.086  
 STD. DEVIATION \_\_\_\_\_ 0.494  
 INC. SKEWNESS \_\_\_\_\_ -0.315  
 INC. KURTOSIS \_\_\_\_\_ 0.500

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.028  
 2nd MOMENT \_\_\_\_\_ 0.614  
 3rd MOMENT \_\_\_\_\_ -1.223  
 4th MOMENT \_\_\_\_\_ 7.107

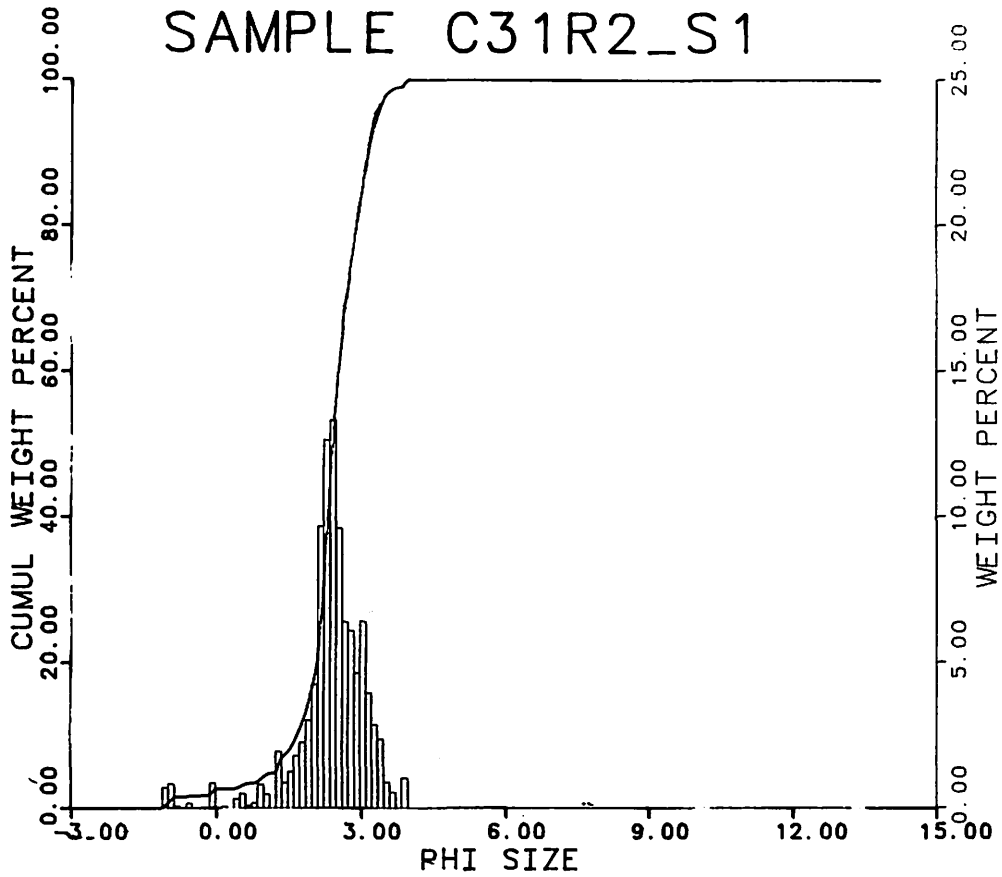
DATE: 7-10-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C31R2\_S1



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

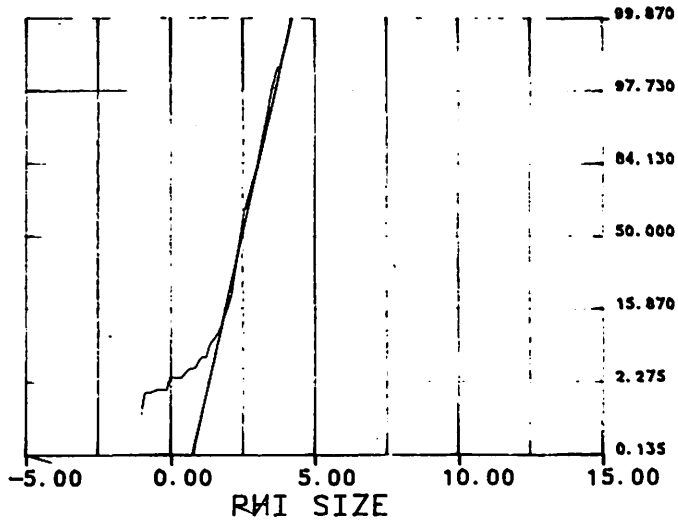
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.7  
 SAND \_\_\_\_\_ 95.5  
 V-COARSE SAND - 1.8  
 COARSE SAND - 1.7  
 MEDIUM SAND - 11.0  
 FINE SAND - 63.8  
 V-FINE SAND - 17.2  
 SILT \_\_\_\_\_ 3.8  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.448  
 MEAN \_\_\_\_\_ 2.497  
 STD. DEVIATION - 0.575  
 INC. SKEWNESS - 0.008  
 INC. KURTOSIS - 0.447

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.406  
 2nd MOMENT \_\_\_\_\_ 0.742  
 3rd MOMENT \_\_\_\_\_ -1.801  
 4th MOMENT \_\_\_\_\_ 9.531

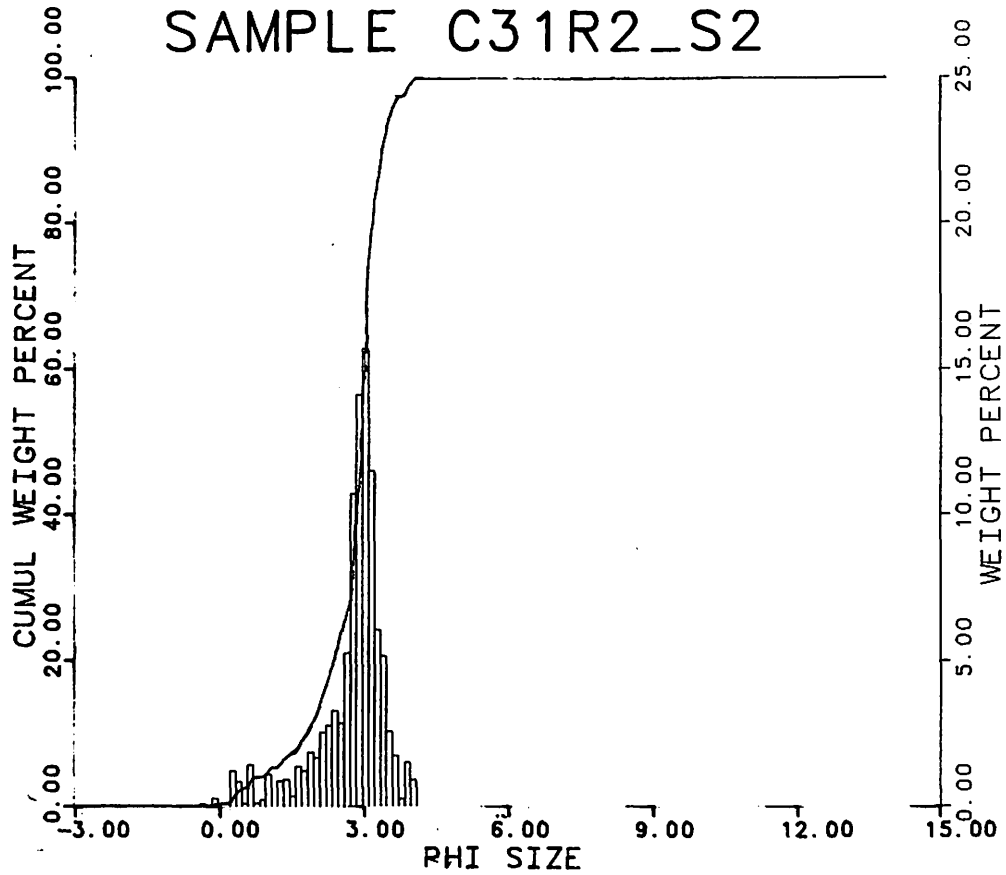
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C31R2\_S2



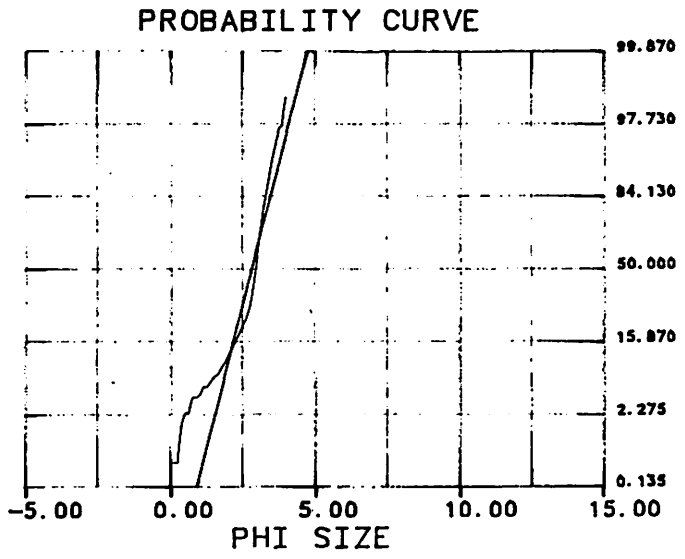
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.4  
 SAND \_\_\_\_\_ 85.8  
 V-COARSE SAND - 0.3  
 COARSE SAND \_\_\_\_\_ 3.3  
 MEDIUM SAND \_\_\_\_\_ 6.5  
 FINE SAND \_\_\_\_\_ 37.3  
 V-FINE SAND \_\_\_\_\_ 38.4  
 SILT \_\_\_\_\_ 13.8  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.958  
 MEAN \_\_\_\_\_ 2.835  
 STD. DEVIATION \_\_\_\_\_ 0.638  
 INC. SKEWNESS \_\_\_\_\_ -0.424  
 INC. KURTOSIS \_\_\_\_\_ 0.488

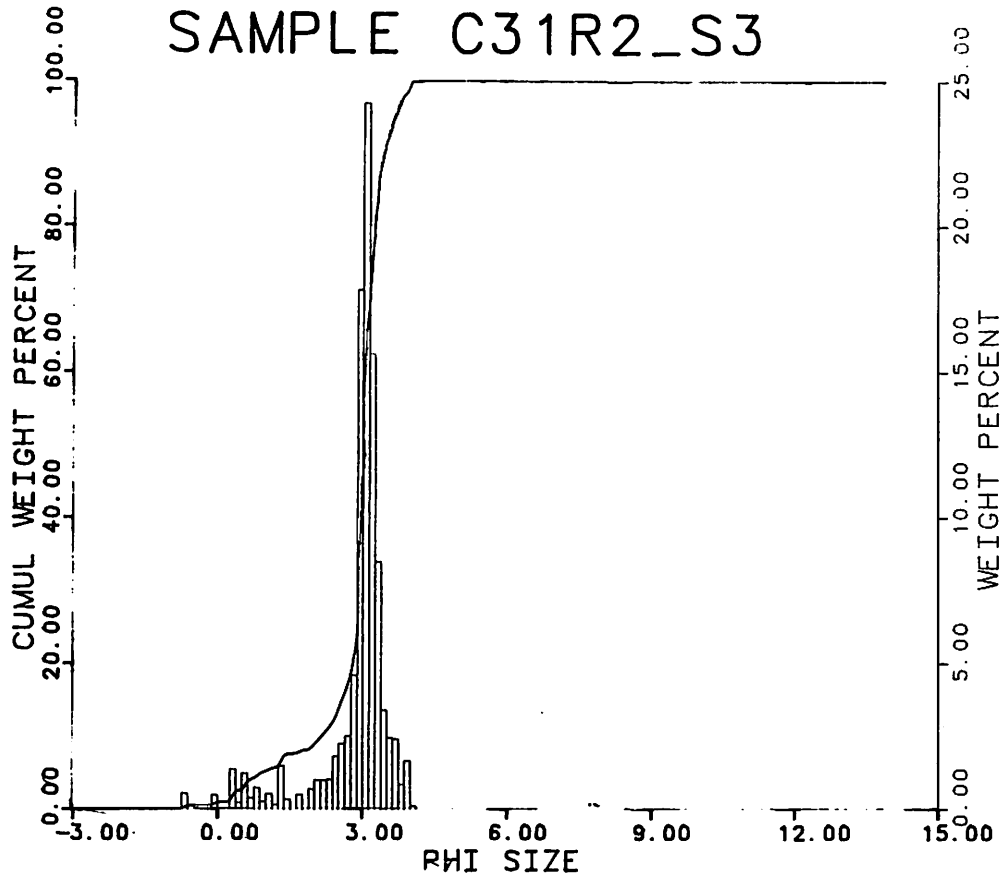
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.782  
 2nd MOMENT \_\_\_\_\_ 0.714  
 3rd MOMENT \_\_\_\_\_ -1.688  
 4th MOMENT \_\_\_\_\_ 6.321

DATE: 7-19-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C31R2\_S3



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

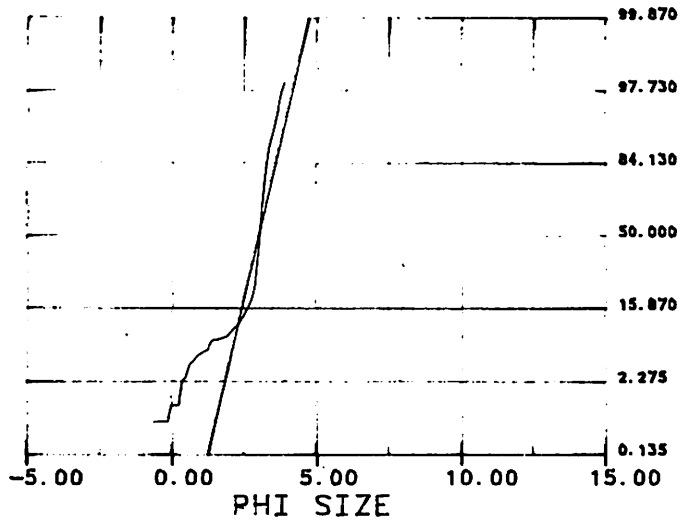
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 2.6  
 SAND \_\_\_\_\_ 88.4  
   V-COARSE SAND - 0.9  
   COARSE SAND - 3.8  
   MEDIUM SAND - 3.2  
   FINE SAND - 27.6  
   V-FINE SAND - 31.1  
 SILT \_\_\_\_\_ 11.0  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 3.047  
 MEAN \_\_\_\_\_ 2.992  
 STD. DEVIATION \_\_\_\_\_ 0.578  
 INC. SKEWNESS \_\_\_\_\_ -0.411  
 INC. KURTOSIS \_\_\_\_\_ 0.550

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.875  
 2nd MOMENT \_\_\_\_\_ 0.735  
 3rd MOMENT \_\_\_\_\_ -2.408  
 4th MOMENT \_\_\_\_\_ 9.332

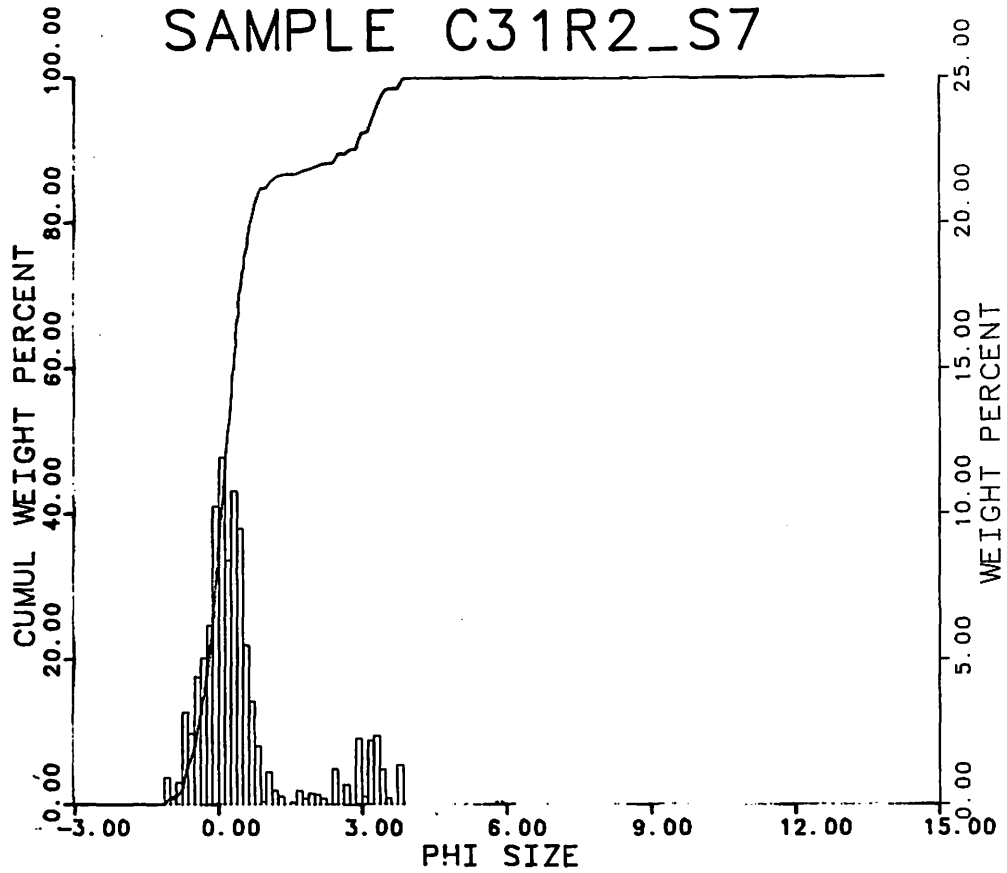
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C31R2\_S7



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

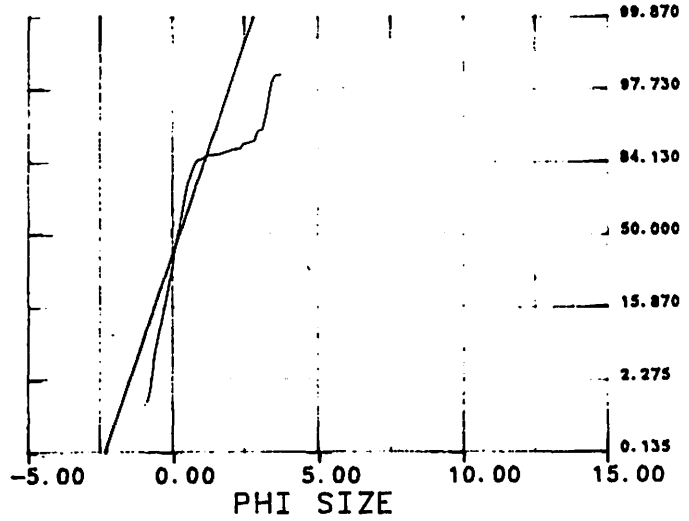
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 6.3  
 SAND \_\_\_\_\_ 87.5  
 V-COARSE SAND - 28.5  
 COARSE SAND \_\_\_\_\_ 45.6  
 MEDIUM SAND \_\_\_\_\_ 2.6  
 FINE SAND \_\_\_\_\_ 4.1  
 V-FINE SAND \_\_\_\_\_ 6.7  
 SILT \_\_\_\_\_ 6.2  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 0.197  
 MEAN \_\_\_\_\_ 0.250  
 STD. DEVIATION \_\_\_\_\_ 0.882  
 INC. SKEWNESS \_\_\_\_\_ 0.361  
 INC. KURTOSIS \_\_\_\_\_ 2.794

Moment Measures  
 1st MOMENT \_\_\_\_\_ 0.485  
 2nd MOMENT \_\_\_\_\_ 1.079  
 3rd MOMENT \_\_\_\_\_ 1.755  
 4th MOMENT \_\_\_\_\_ 5.167

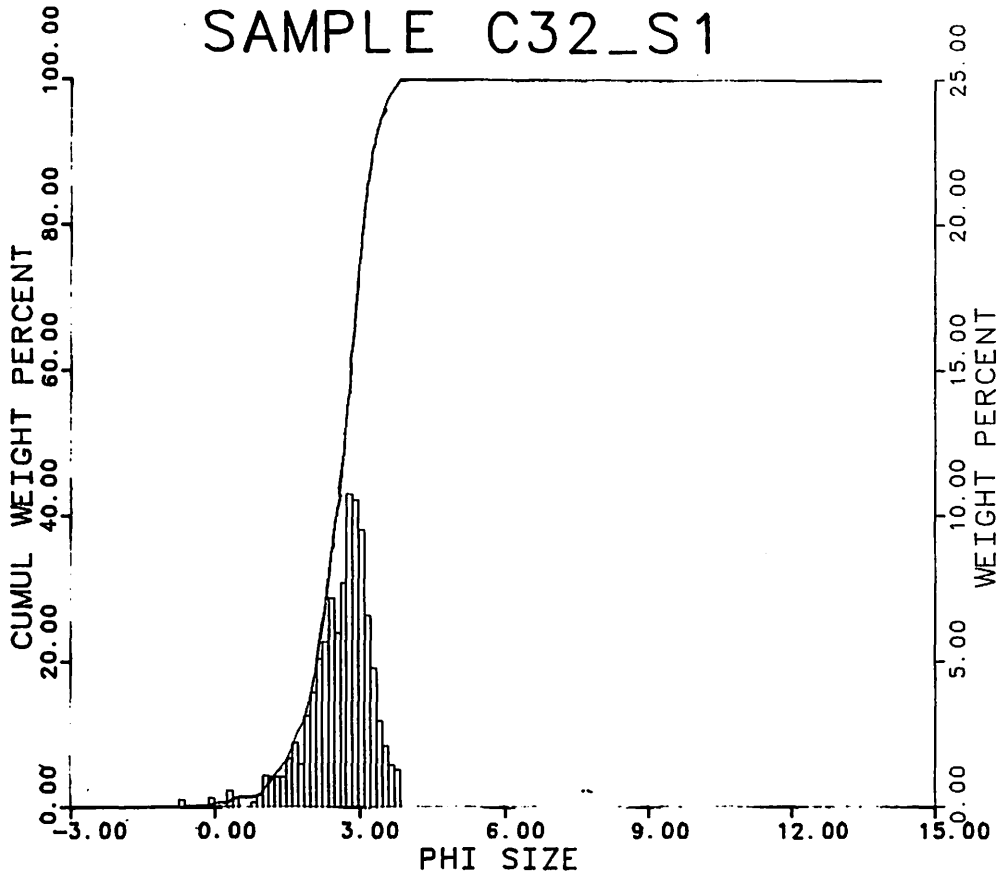
DATE: 7-10-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S1



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.3  
 SAND \_\_\_\_\_ 91.1  
   V-COARSE SAND \_\_\_\_\_ 0.6  
   COARSE SAND \_\_\_\_\_ 1.3  
   MEDIUM SAND \_\_\_\_\_ 11.5  
   FINE SAND \_\_\_\_\_ 51.7  
   V-FINE SAND \_\_\_\_\_ 26.1  
 SILT \_\_\_\_\_ 8.6  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

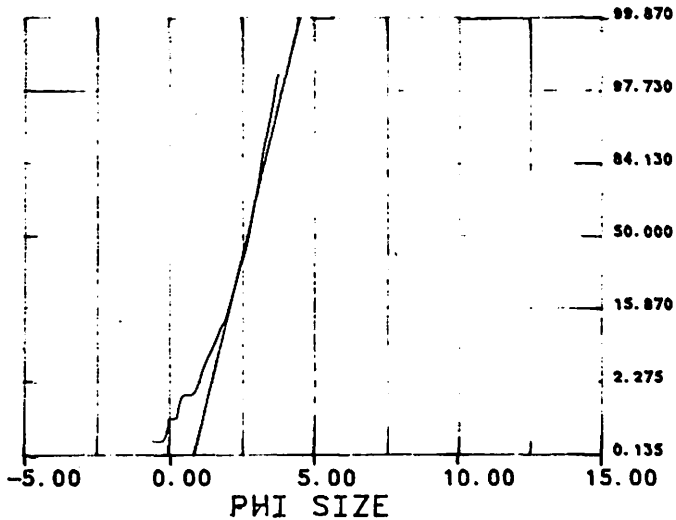
MEDIAN \_\_\_\_\_ 2.748  
 MEAN \_\_\_\_\_ 2.658  
 STD. DEVIATION \_\_\_\_\_ 0.610  
 INC. SKEWNESS \_\_\_\_\_ -0.270  
 INC. KURTOSIS \_\_\_\_\_ 0.415

### Moment Measures

1st MOMENT \_\_\_\_\_ 2.613  
 2nd MOMENT \_\_\_\_\_ 0.660  
 3rd MOMENT \_\_\_\_\_ -1.206  
 4th MOMENT \_\_\_\_\_ 5.620

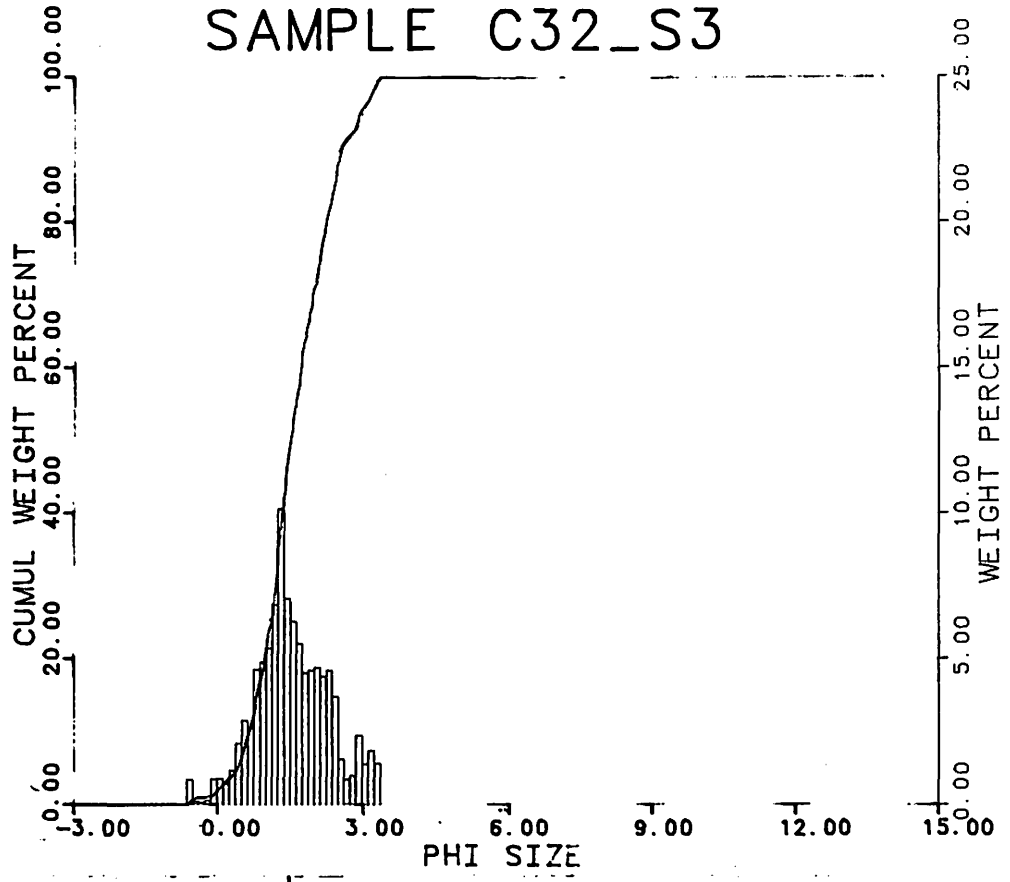
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S3



**Sample Location**

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**

GRAVEL \_\_\_\_\_ 1.4  
 SAND \_\_\_\_\_ 95.1  
   V-COARSE SAND - 1.9  
   COARSE SAND - 18.9  
   MEDIUM SAND - 47.9  
   FINE SAND - 22.0  
   V-FINE SAND - 4.4  
 SILT \_\_\_\_\_ 3.5  
 CLAY \_\_\_\_\_ 0.0

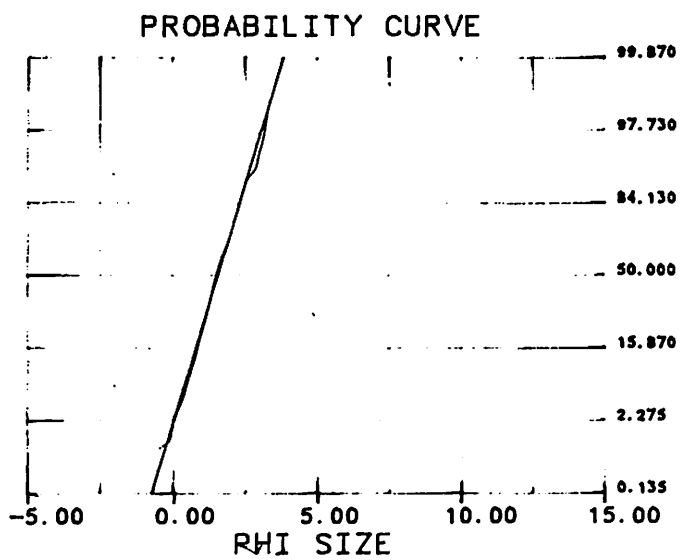
**Graphic Measures**

MEDIAN \_\_\_\_\_ 1.476  
 MEAN \_\_\_\_\_ 1.549  
 STD. DEVIATION \_\_\_\_\_ 0.782  
 INC. SKEWNESS \_\_\_\_\_ 0.154  
 INC. KURTOSIS \_\_\_\_\_ 0.650

**Moment Measures**

1st MOMENT \_\_\_\_\_ 1.559  
 2nd MOMENT \_\_\_\_\_ 0.780  
 3rd MOMENT \_\_\_\_\_ 0.118  
 4th MOMENT \_\_\_\_\_ 2.975

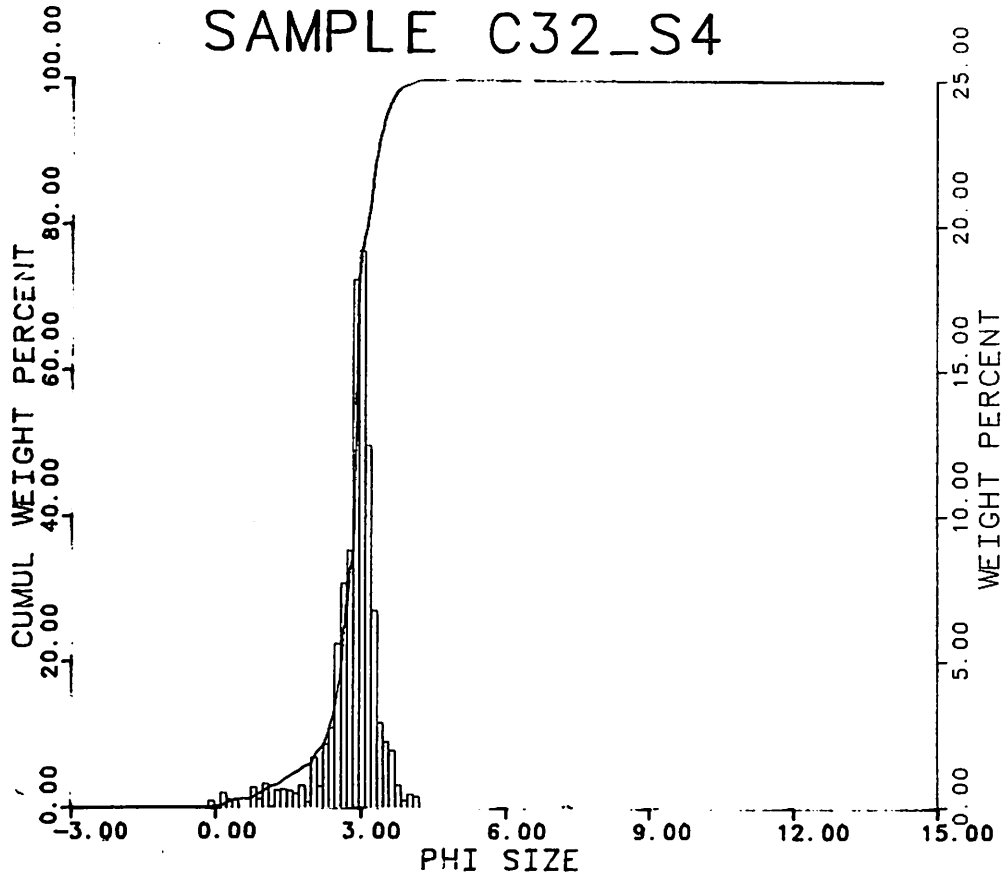
DATE: 7-19-88



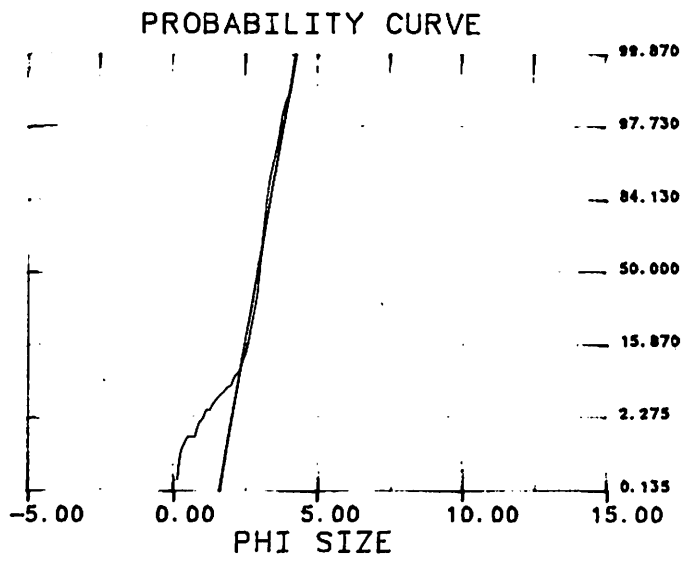
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C32\_S4

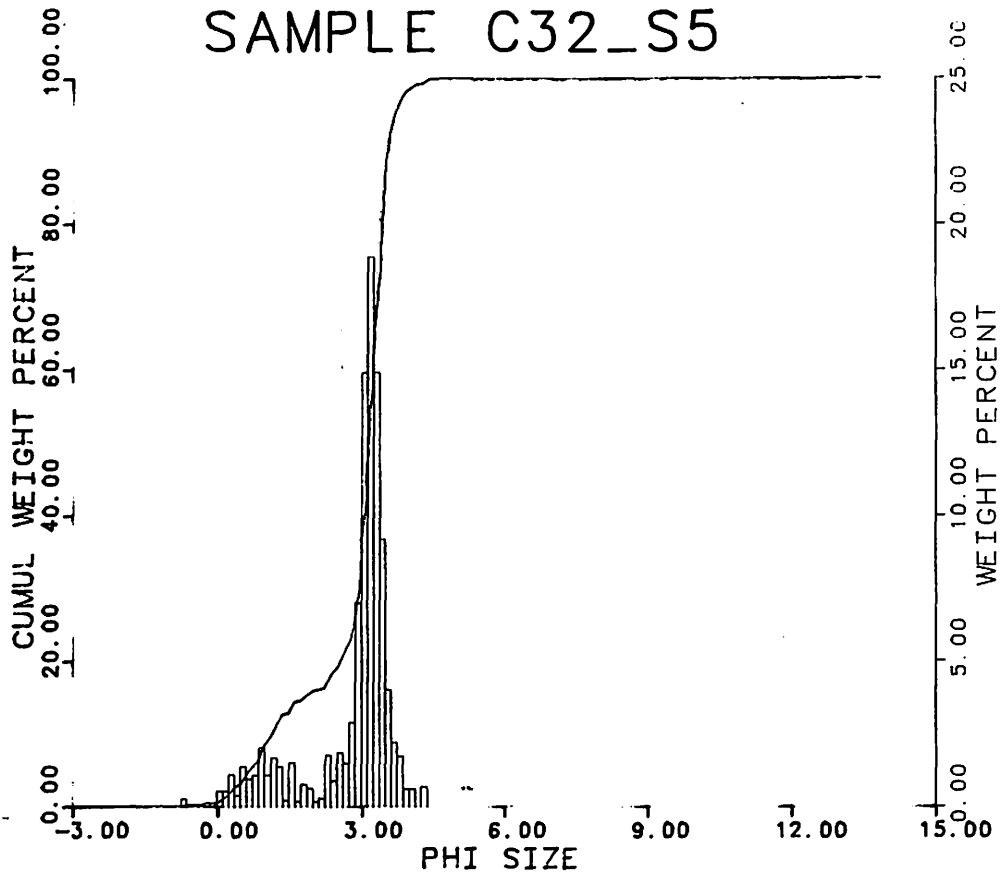


Sample Location	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
Grass Parameters (%)	
GRAVEL	0.2
SAND	88.7
V-COARSE SAND	0.2
COARSE SAND	1.7
MEDIUM SAND	3.4
FINE SAND	42.3
V-FINE SAND	41.2
SILT	11.1
CLAY	0.0
Graphic Measures	
MEDIAN	2.978
MEAN	2.928
STD. DEVIATION	0.443
INC. SKEWNESS	-0.295
INC. KURTOSIS	0.363
Moment Measures	
1st MOMENT	2.872
2nd MOMENT	0.564
3rd MOMENT	-2.122
4th MOMENT	9.941
DATE:	7-19-88



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S5



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

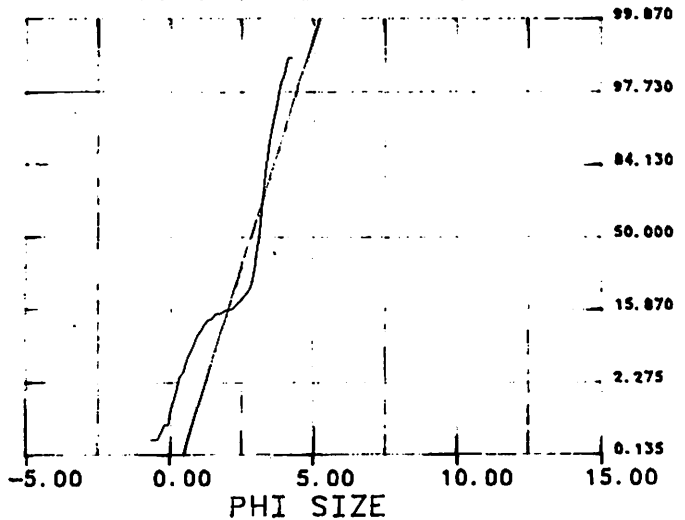
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.9  
 SAND \_\_\_\_\_ 80.7  
 V-COARSE SAND - 0.4  
 COARSE SAND \_\_\_\_\_ 6.5  
 MEDIUM SAND \_\_\_\_\_ 6.1  
 FINE SAND \_\_\_\_\_ 13.4  
 V-FINE SAND \_\_\_\_\_ 54.4  
 SILT \_\_\_\_\_ 18.4  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 3.144  
 MEAN \_\_\_\_\_ 2.879  
 STD. DEVIATION \_\_\_\_\_ 0.784  
 INC. SKEWNESS \_\_\_\_\_ -0.819  
 INC. KURTOSIS \_\_\_\_\_ 0.565

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.835  
 2nd MOMENT \_\_\_\_\_ 0.897  
 3rd MOMENT \_\_\_\_\_ -1.878  
 4th MOMENT \_\_\_\_\_ 5.001

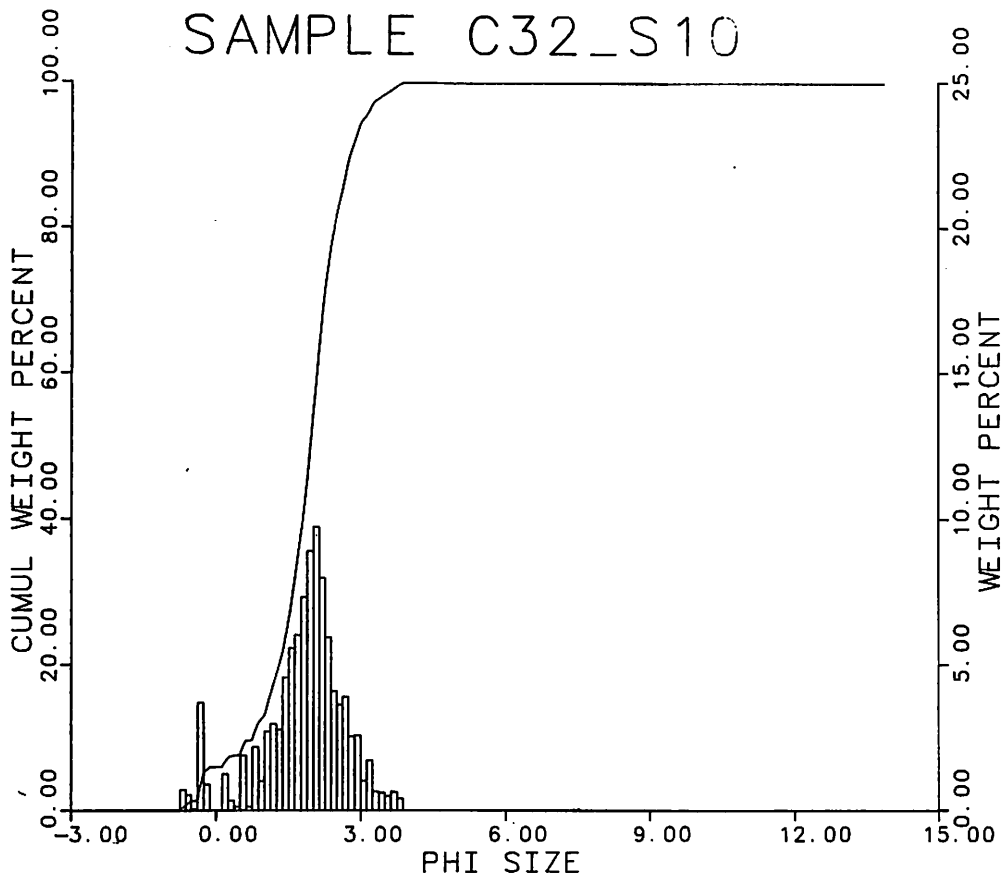
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S10



**Sample Location**

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

**Gross Parameters (%)**

GRAVEL ——— 18.2  
 SAND ——— 77.4  
 V-COARSE SAND — 4.6  
 COARSE SAND — 5.4  
 MEDIUM SAND — 31.7  
 FINE SAND — 31.4  
 V-FINE SAND — 4.3  
 SILT ——— 4.4  
 CLAY ——— 0.0

**Graphic Measures**

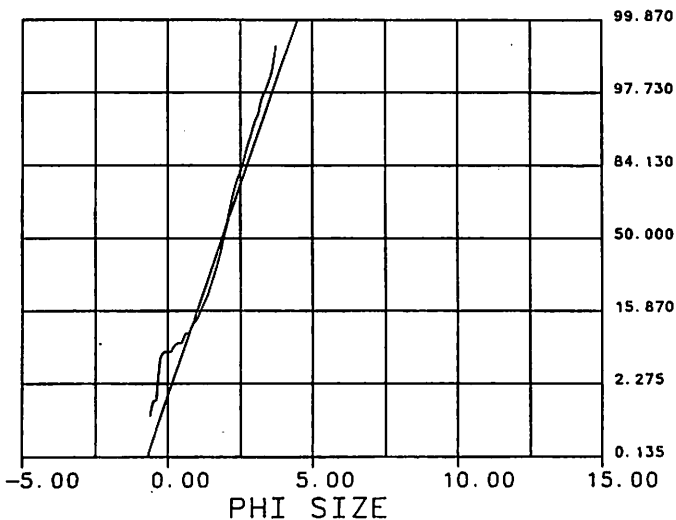
MEDIAN ——— 1.946  
 MEAN ——— 1.889  
 STD. DEVIATION — 0.863  
 INC. SKEWNESS — -0.220  
 INC. KURTOSIS — 0.794

**Moment Measures**

1st MOMENT ——— 1.832  
 2nd MOMENT ——— 0.851  
 3rd MOMENT ——— -0.778  
 4th MOMENT ——— 3.961

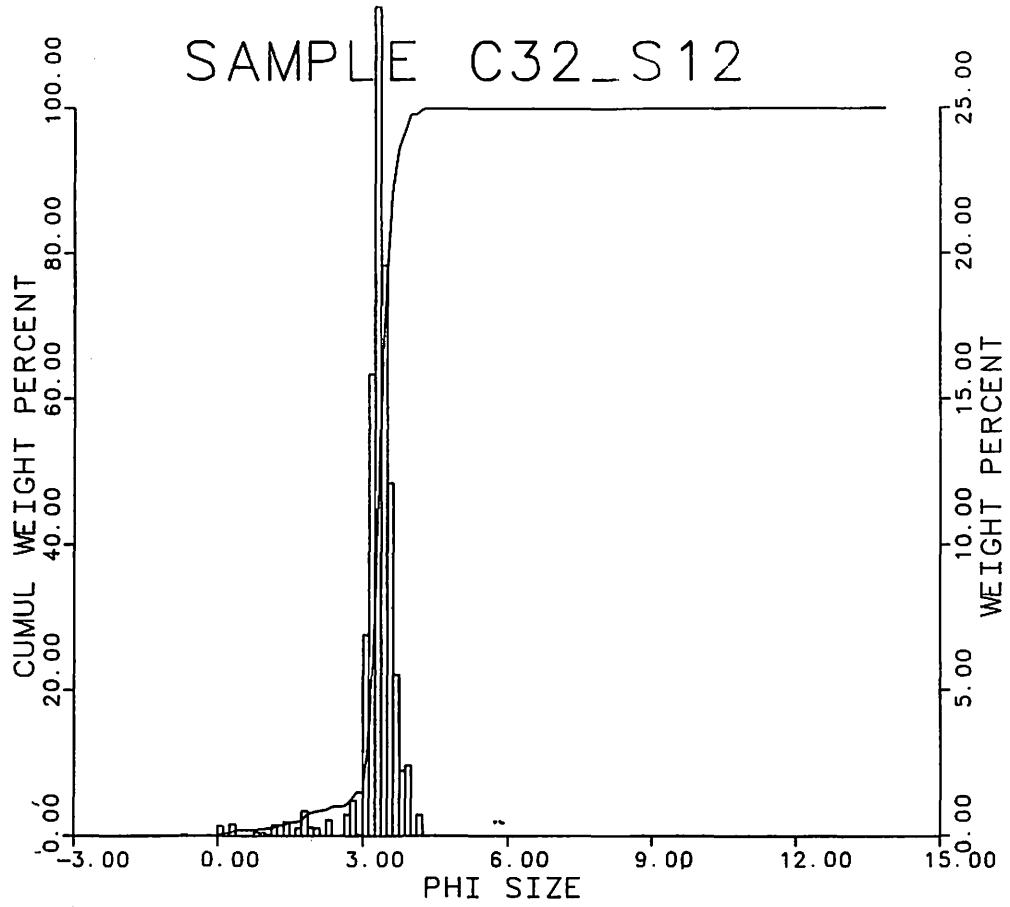
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

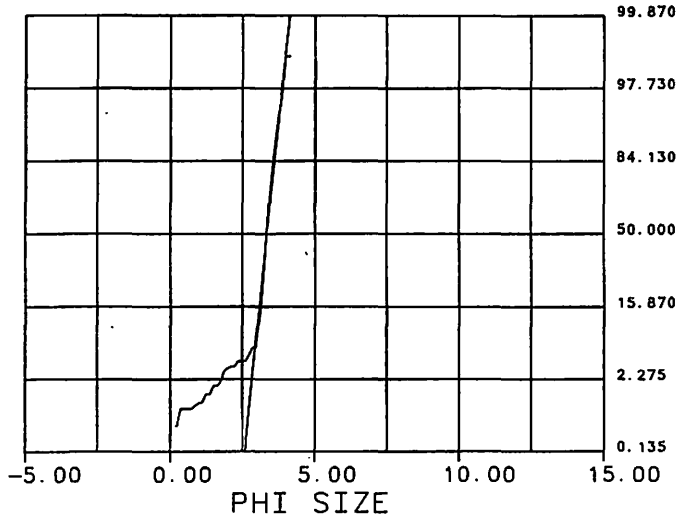
# SAMPLE C32\_S12



<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.0
SAND	89.7
V-COARSE SAND	0.1
COARSE SAND	0.8
MEDIUM SAND	2.0
FINE SAND	2.5
V-FINE SAND	84.3
SILT	10.3
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	3.343
MEAN	3.355
STD. DEVIATION	0.257
INC. SKEWNESS	-0.027
INC. KURTOSIS	0.188

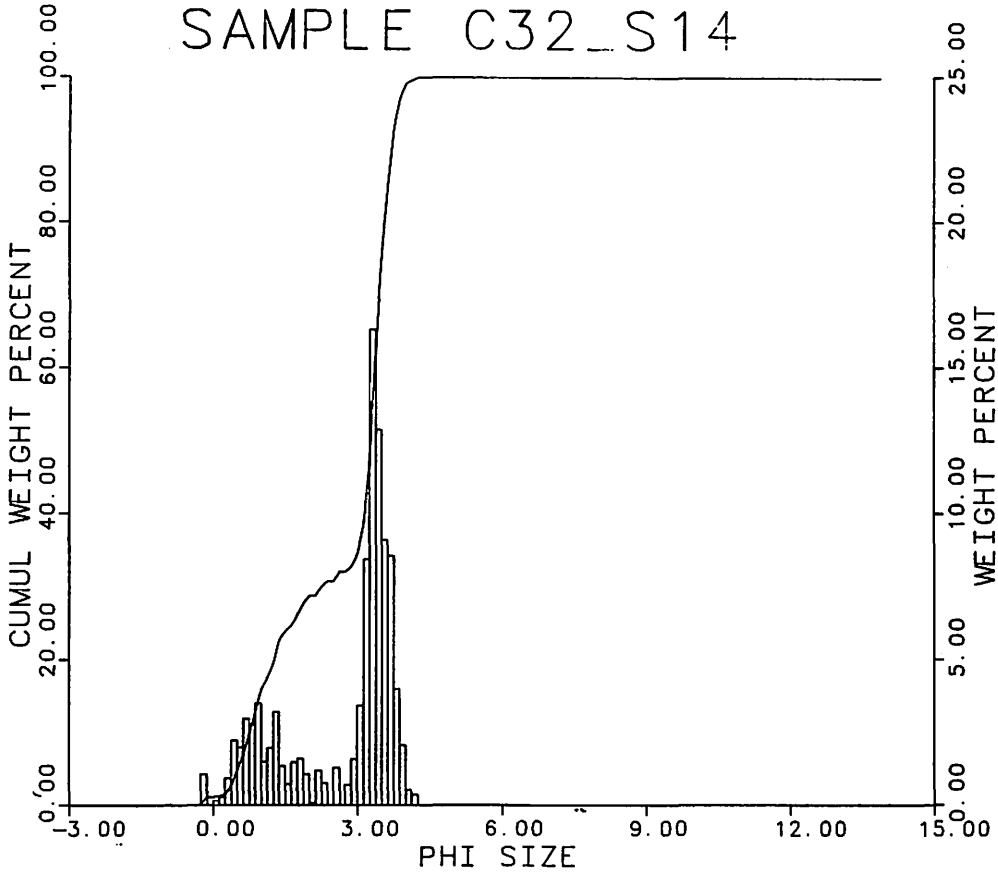
<b>Moment Measures</b>	
1st MOMENT	3.296
2nd MOMENT	0.469
3rd MOMENT	-3.834
4th MOMENT	23.680
DATE:	4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S14



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

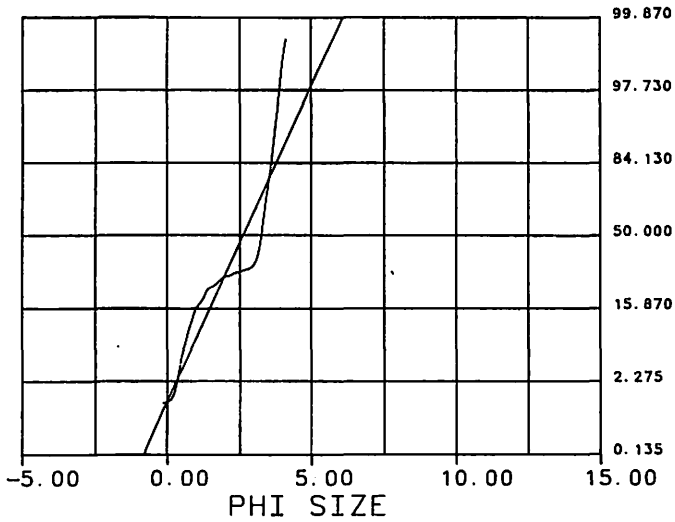
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 11.9  
 SAND \_\_\_\_\_ 70.8  
 V-COARSE SAND \_\_\_\_\_ 0.8  
 COARSE SAND \_\_\_\_\_ 10.6  
 MEDIUM SAND \_\_\_\_\_ 9.2  
 FINE SAND \_\_\_\_\_ 4.0  
 V-FINE SAND \_\_\_\_\_ 48.3  
 SILT \_\_\_\_\_ 17.3  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.279  
 MEAN \_\_\_\_\_ 2.636  
 STD. DEVIATION \_\_\_\_\_ 1.150  
 INC. SKEWNESS \_\_\_\_\_ -0.708  
 INC. KURTOSIS \_\_\_\_\_ 0.479

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.697  
 2nd MOMENT \_\_\_\_\_ 1.151  
 3rd MOMENT \_\_\_\_\_ -0.948  
 4th MOMENT \_\_\_\_\_ 2.364

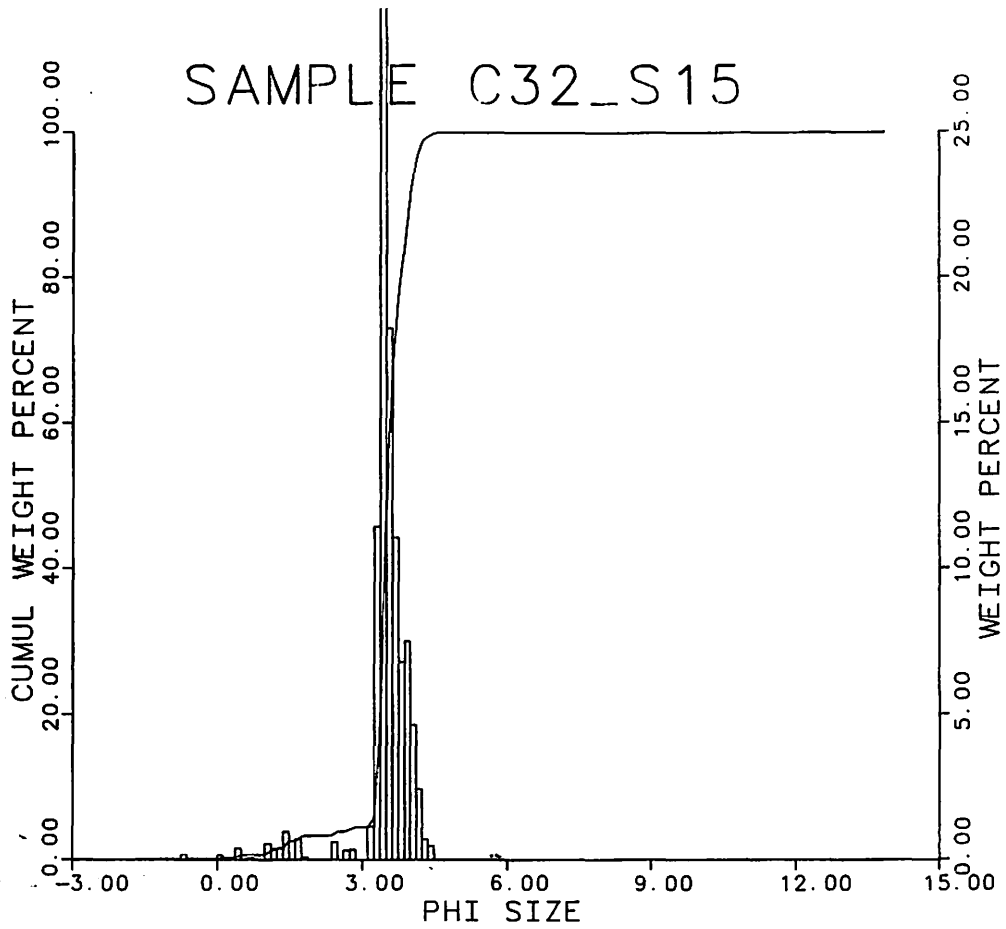
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C32\_S15



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

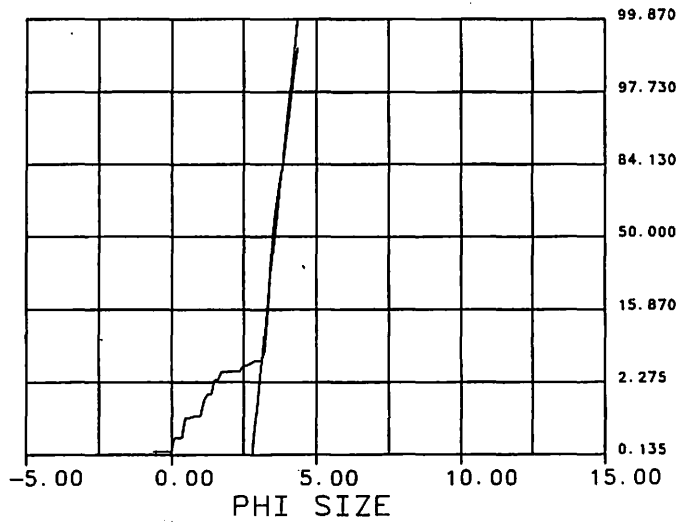
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.3  
 SAND \_\_\_\_\_ 46.8  
 V-COARSE SAND --- 0.1  
 COARSE SAND --- 0.3  
 MEDIUM SAND --- 1.3  
 FINE SAND --- 0.6  
 V-FINE SAND --- 44.5  
 SILT \_\_\_\_\_ 52.9  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.512  
 MEAN \_\_\_\_\_ 3.582  
 STD. DEVIATION --- 0.263  
 INC. SKEWNESS --- 0.342  
 INC. KURTOSIS --- 0.159

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 3.506  
 2nd MOMENT \_\_\_\_\_ 0.520  
 3rd MOMENT \_\_\_\_\_ -3.609  
 4th MOMENT \_\_\_\_\_ 21.487

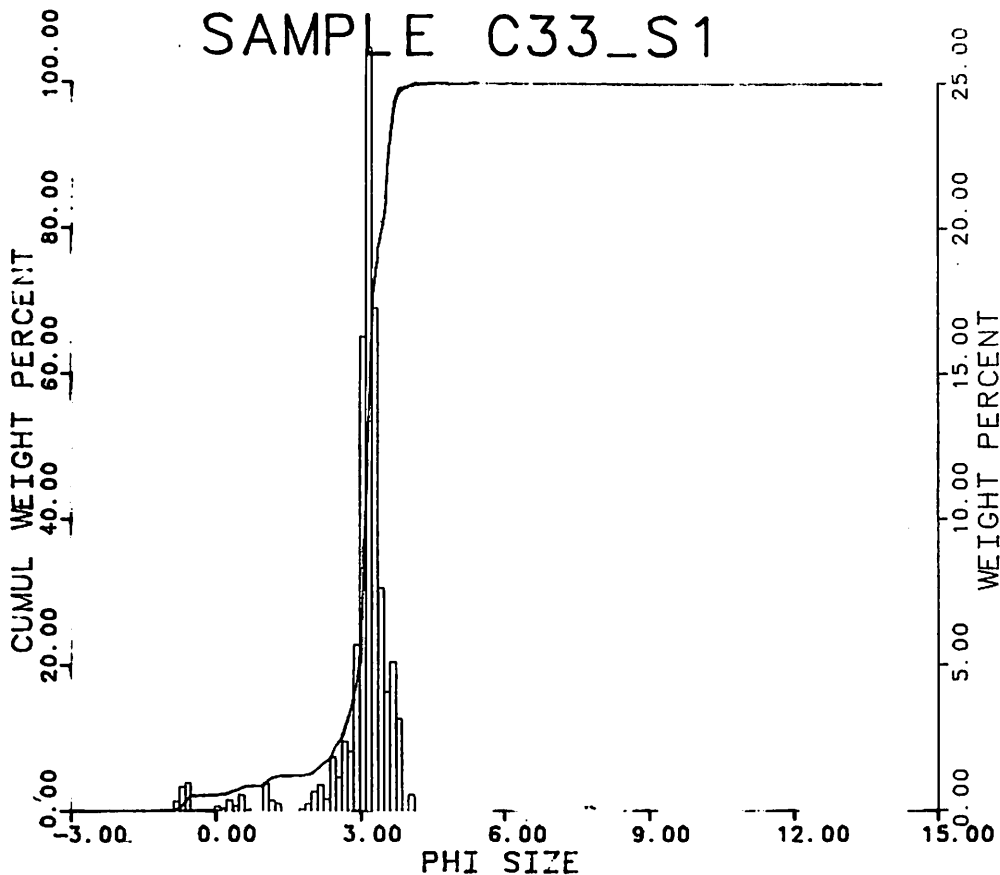
DATE: 4-25-88

## PROBABILITY CURVE

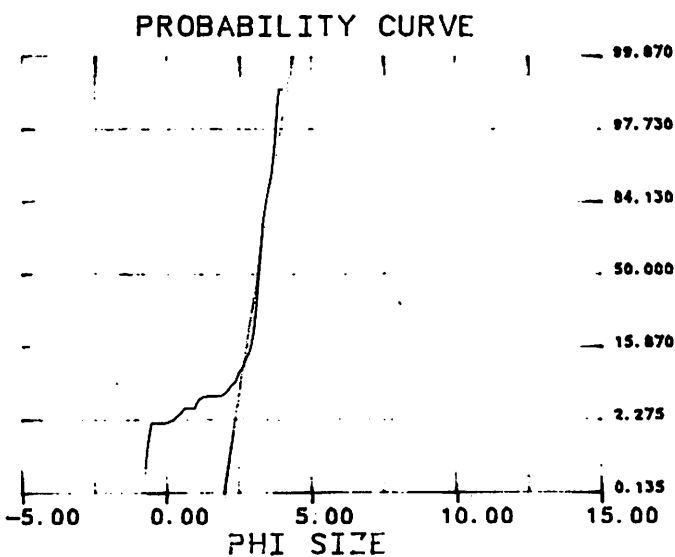


OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S1

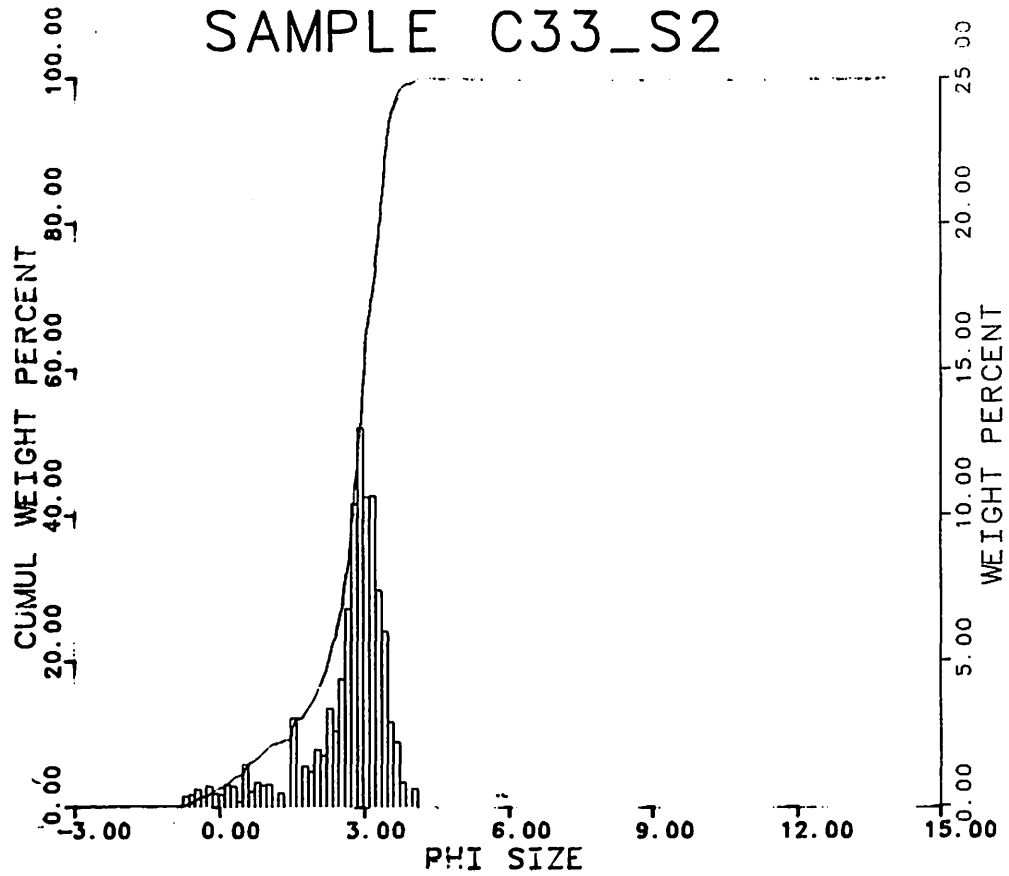


<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.0
SAND	81.0
V-COARSE SAND	1.7
COARSE SAND	1.0
MEDIUM SAND	1.4
FINE SAND	12.1
V-FINE SAND	64.8
SILT	19.0
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	3.191
MEAN	3.184
STD. DEVIATION	0.398
INC. SKEWNESS	-0.216
INC. KURTOSIS	0.339
<b>Moment Measures</b>	
1st MOMENT	3.052
2nd MOMENT	0.736
3rd MOMENT	-3.448
4th MOMENT	16.364
DATE:	7-19-88



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

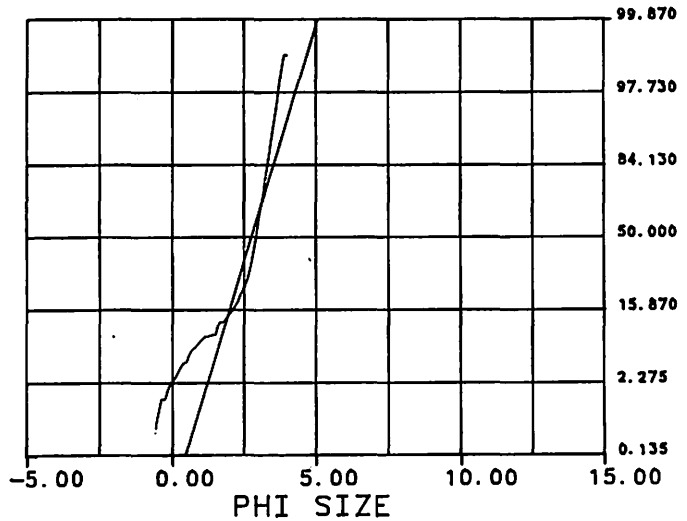
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.3  
 SAND \_\_\_\_\_ 84.8  
   V-COARSE SAND - 2.1  
   COARSE SAND - 4.7  
   MEDIUM SAND - 5.8  
   FINE SAND - 37.8  
   V-FINE SAND - 34.8  
 SILT \_\_\_\_\_ 14.9  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.915  
 MEAN \_\_\_\_\_ 2.771  
 STD. DEVIATION \_\_\_\_\_ 0.765  
 INC. SKEWNESS \_\_\_\_\_ -0.459  
 INC. KURTOSIS \_\_\_\_\_ 0.572

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.872  
 2nd MOMENT \_\_\_\_\_ 0.875  
 3rd MOMENT \_\_\_\_\_ -1.799  
 4th MOMENT \_\_\_\_\_ 6.137

DATE: 7-19-88

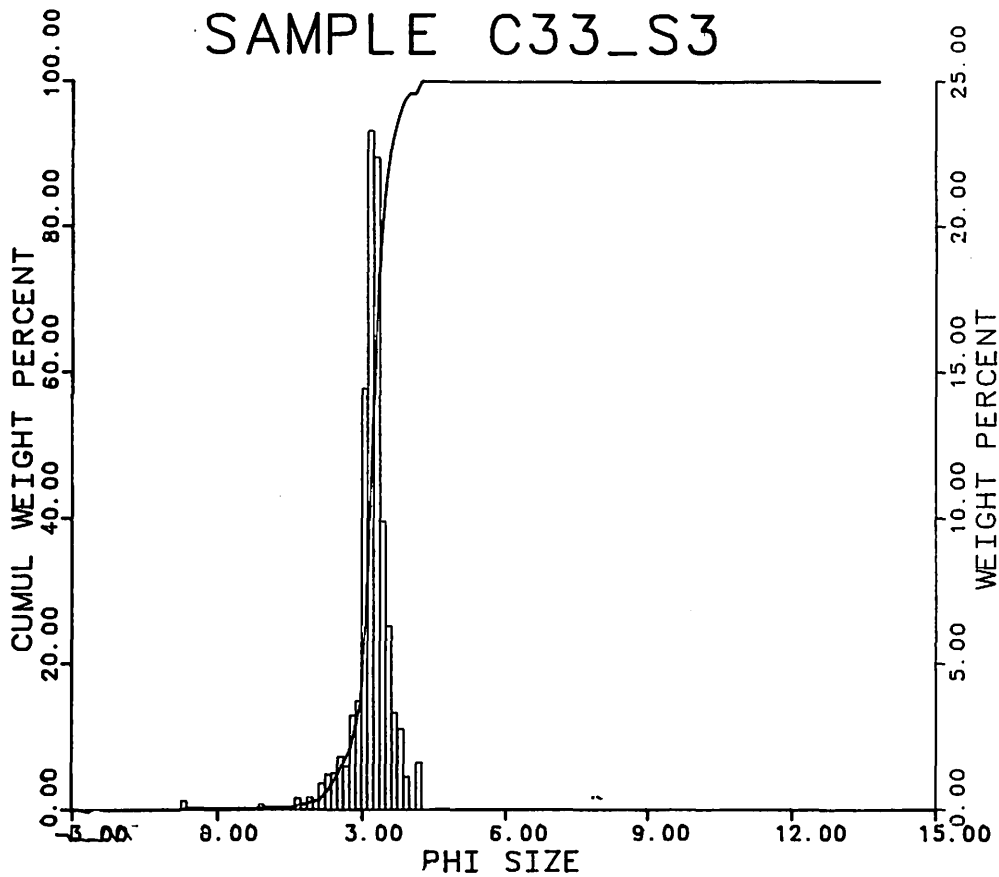
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C33\_S3



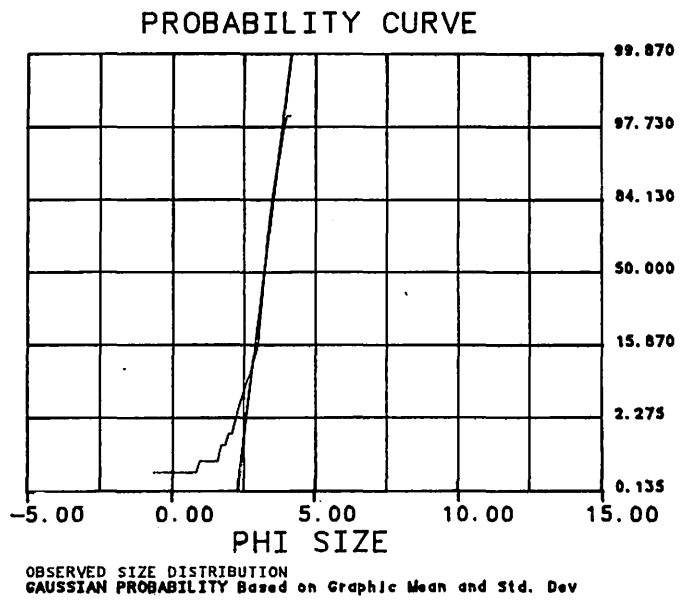
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 82.8  
 V-COARSE SAND \_\_\_\_\_ 0.2  
 COARSE SAND \_\_\_\_\_ 0.1  
 MEDIUM SAND \_\_\_\_\_ 0.7  
 FINE SAND \_\_\_\_\_ 11.4  
 V-FINE SAND \_\_\_\_\_ 78.1  
 SILT \_\_\_\_\_ 17.4  
 CLAY \_\_\_\_\_ 0.0

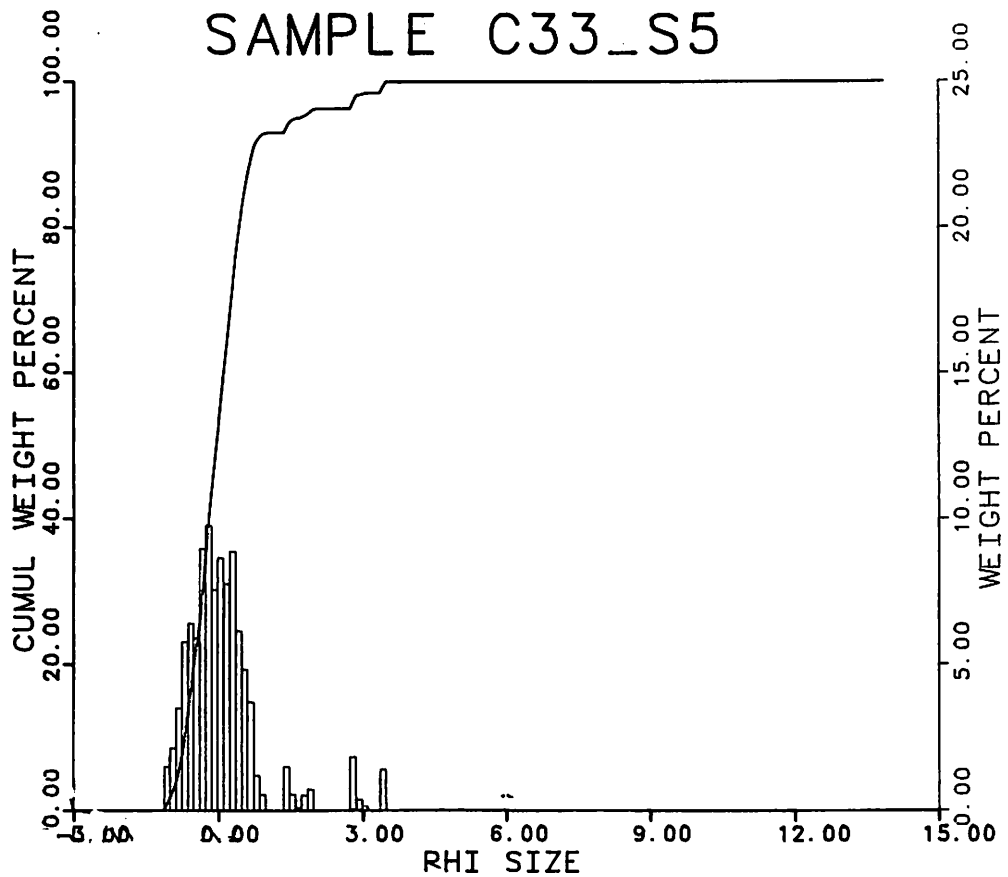
**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.236  
 MEAN \_\_\_\_\_ 3.245  
 STD. DEVIATION \_\_\_\_\_ 0.309  
 INC. SKEWNESS \_\_\_\_\_ -0.042  
 INC. KURTOSIS \_\_\_\_\_ 0.242

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 3.209  
 2nd MOMENT \_\_\_\_\_ 0.415  
 3rd MOMENT \_\_\_\_\_ -3.010  
 4th MOMENT \_\_\_\_\_ 28.914

DATE: 7-19-88



# SAMPLE C33\_S5



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

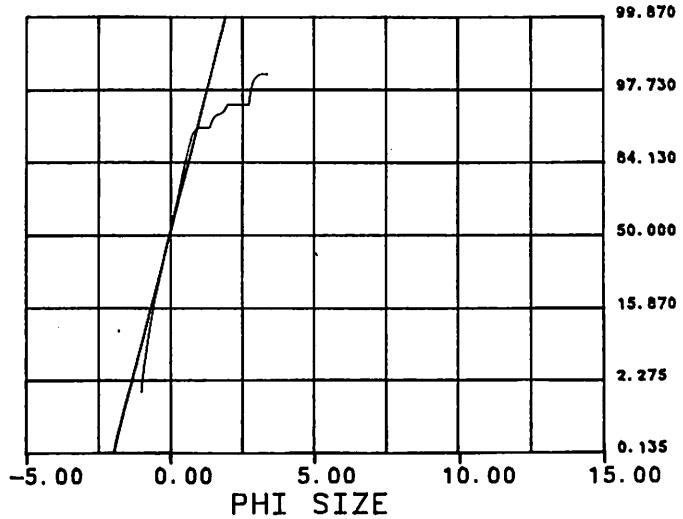
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 19.4  
 SAND \_\_\_\_\_ 76.2  
 V-COARSE SAND \_\_\_\_\_ 36.6  
 COARSE SAND \_\_\_\_\_ 32.2  
 MEDIUM SAND \_\_\_\_\_ 2.5  
 FINE SAND \_\_\_\_\_ 1.7  
 V-FINE SAND \_\_\_\_\_ 4.4  
 SILT \_\_\_\_\_ 0.0  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ -0.024  
 MEAN \_\_\_\_\_ -0.019  
 STD. DEVIATION \_\_\_\_\_ 0.643  
 INC. SKEWNESS \_\_\_\_\_ 0.176  
 INC. KURTOSIS \_\_\_\_\_ 1.274

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 0.091  
 2nd MOMENT \_\_\_\_\_ 0.792  
 3rd MOMENT \_\_\_\_\_ 2.040  
 4th MOMENT \_\_\_\_\_ 8.614

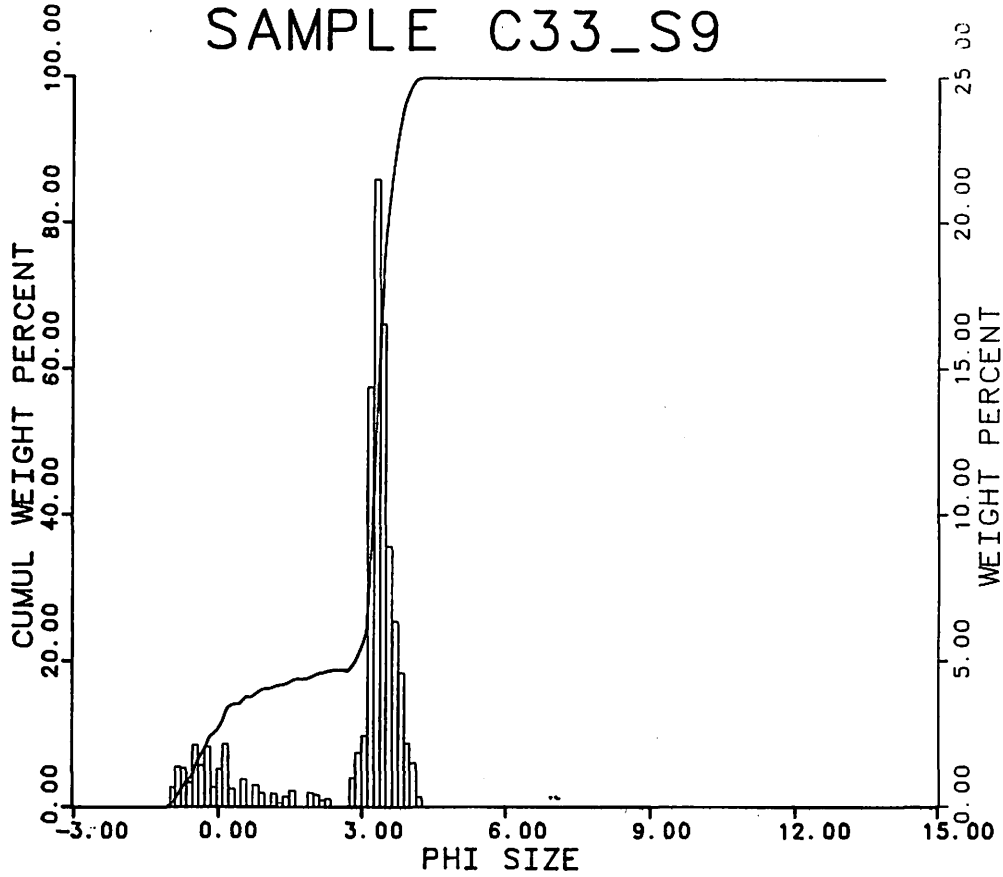
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S9



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

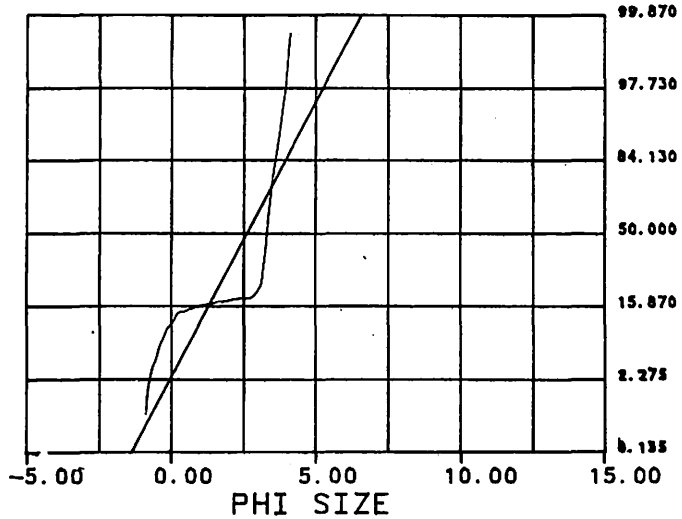
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 56.4  
 SAND \_\_\_\_\_ 27.4  
 V-COARSE SAND - 2.8  
 COARSE SAND - 1.7  
 MEDIUM SAND - 0.5  
 FINE SAND - 1.0  
 V-FINE SAND - 21.4  
 SILT \_\_\_\_\_ 18.2  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.318  
 MEAN \_\_\_\_\_ 2.621  
 STD. DEVIATION - 1.318  
 INC. SKEWNESS - -0.768  
 INC. KURTOSIS - 0.797

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.790  
 2nd MOMENT \_\_\_\_\_ 1.358  
 3rd MOMENT \_\_\_\_\_ -1.693  
 4th MOMENT \_\_\_\_\_ 4.261

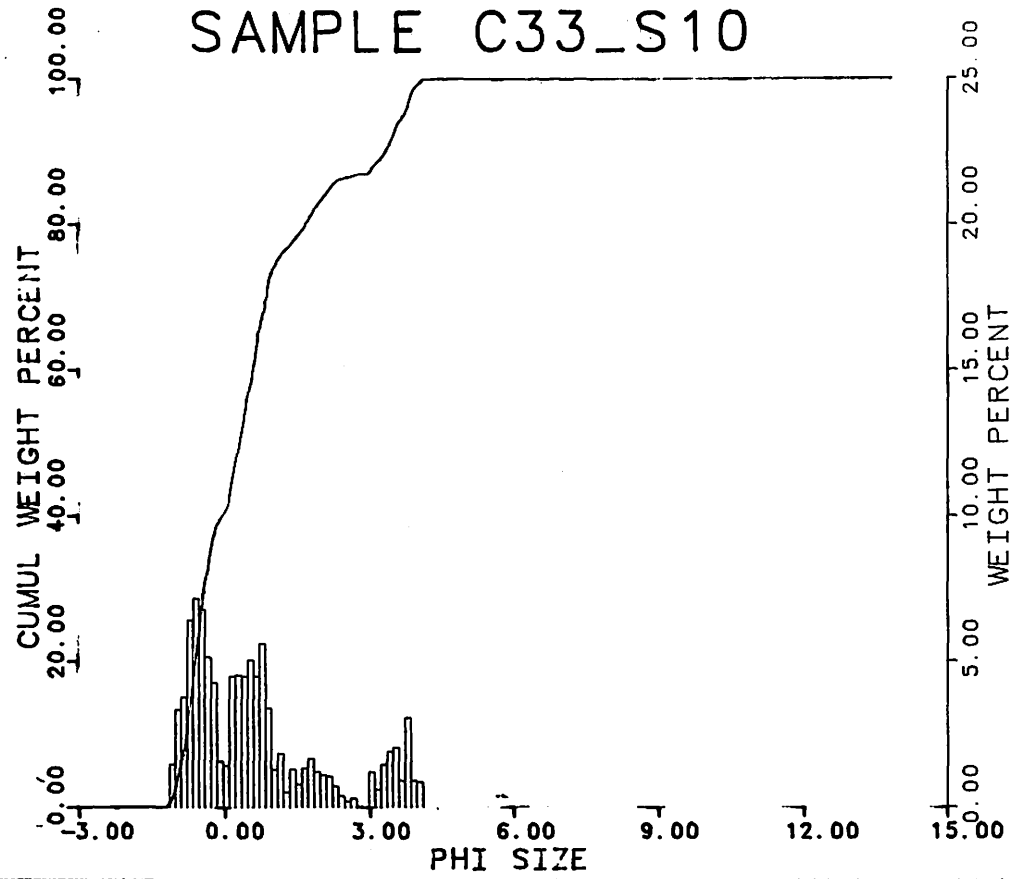
DATE: 7-19-88

## PROBABILITY CURVE

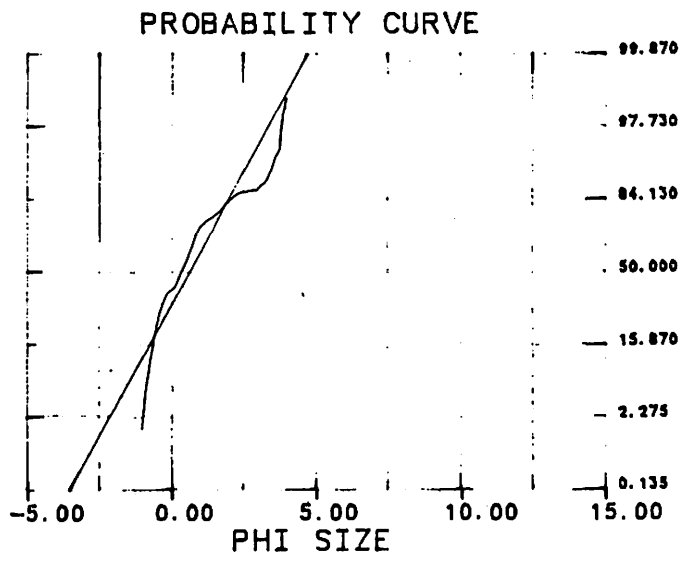


OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S10

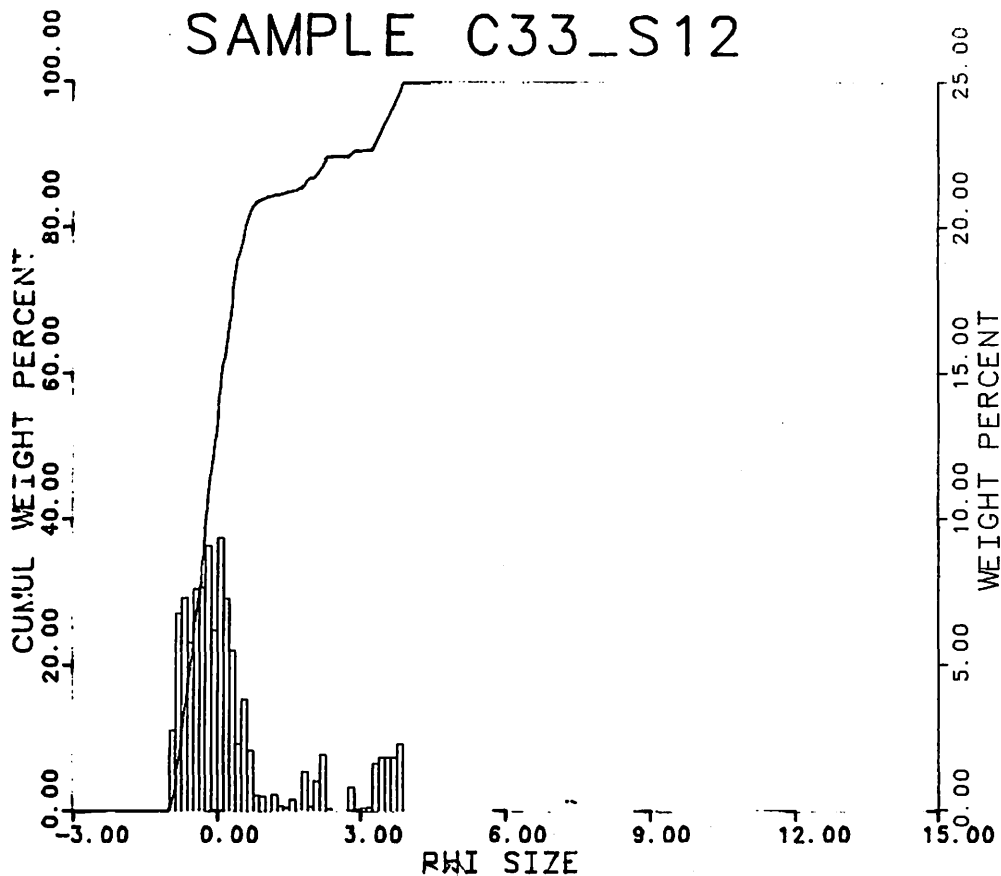


<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	00.0
SAND	10.0
V-COARSE SAND	8.7
COARSE SAND	5.8
MEDIUM SAND	1.7
FINE SAND	0.7
V-FINE SAND	2.1
SILT	14.5
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	0.388
MEAN	0.613
STD. DEVIATION	1.388
INC. SKEWNESS	0.388
INC. KURTOSIS	1.411
<b>Moment Measures</b>	
1st MOMENT	0.611
2nd MOMENT	1.388
3rd MOMENT	1.032
4th MOMENT	3.073
DATE:	7-19-88



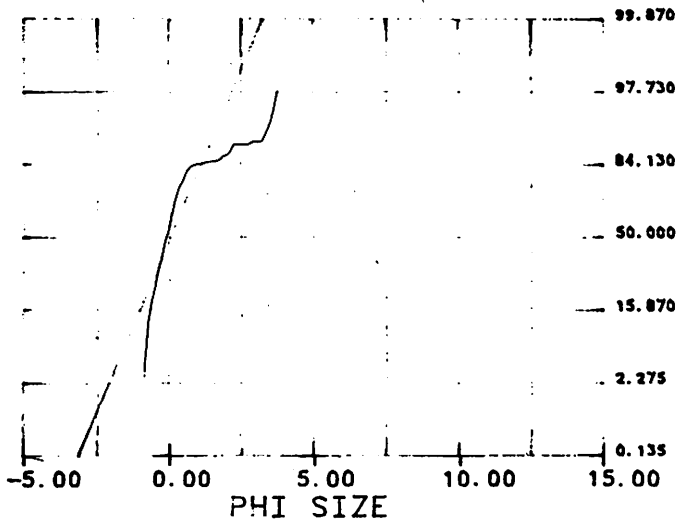
OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S12



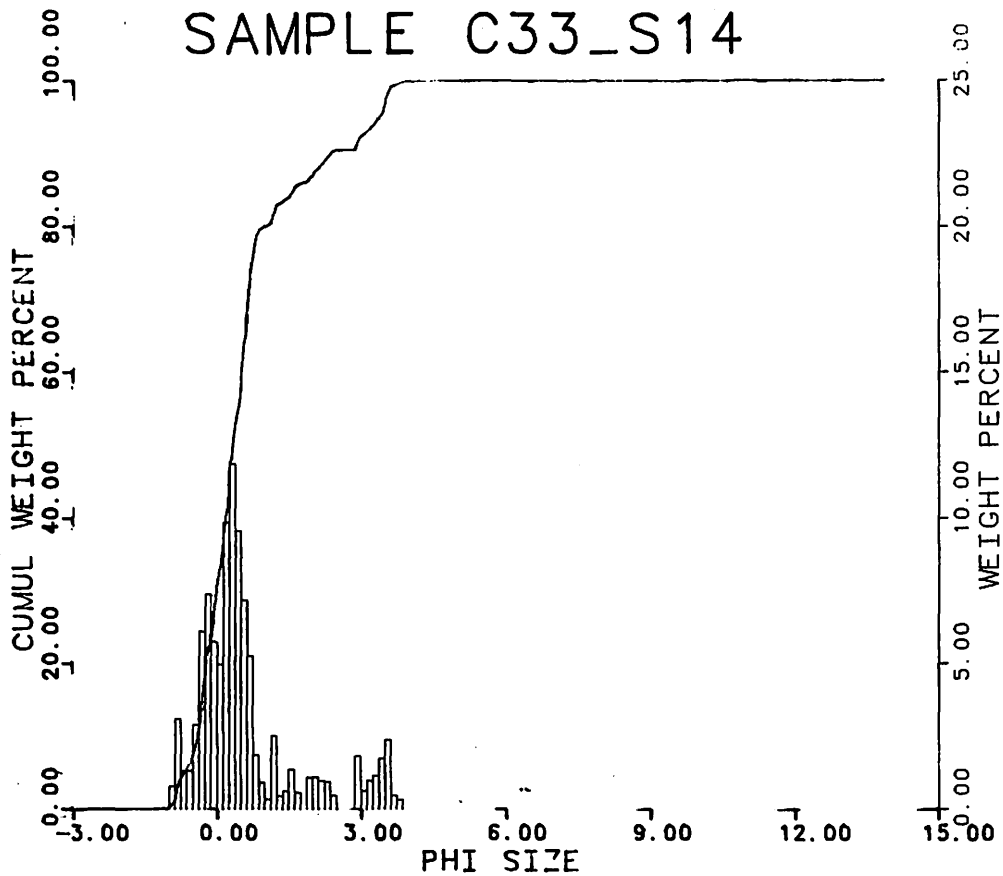
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Grass Parameters (%)</b>	
GRAVEL	63.3
SAND	22.5
V-COARSE SAND	11.9
COARSE SAND	7.0
MEDIUM SAND	0.6
FINE SAND	0.8
V-FINE SAND	2.1
SILT	14.2
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	-0.062
MEAN	0.078
STD. DEVIATION	1.059
INC. SKEWNESS	0.458
INC. KURTOSIS	3.215
<b>Moment Measures</b>	
1st MOMENT	0.314
2nd MOMENT	1.252
3rd MOMENT	1.705
4th MOMENT	4.859
DATE:	7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S14



**Sample Location**

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**

GRAVEL \_\_\_\_\_ 81.1  
 SAND \_\_\_\_\_ 11.3  
   V-COARSE SAND - 3.2  
   COARSE SAND - 5.8  
   MEDIUM SAND - 0.8  
   FINE SAND - 0.6  
   V-FINE SAND - 0.9  
 SILT \_\_\_\_\_ 7.6  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**

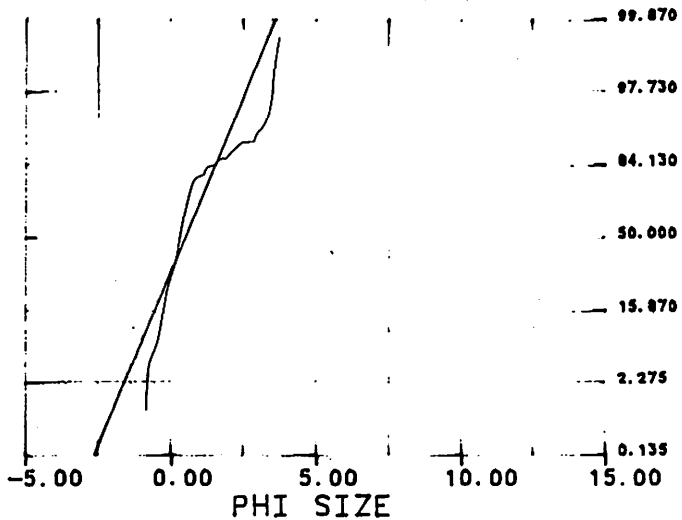
MEDIAN \_\_\_\_\_ 0.318  
 MEAN \_\_\_\_\_ 0.521  
 STD. DEVIATION - 1.040  
 INC. SKEWNESS - 0.435  
 INC. KURTOSIS - 2.203

**Moment Measures**

1st MOMENT \_\_\_\_\_ 0.594  
 2nd MOMENT \_\_\_\_\_ 1.085  
 3rd MOMENT \_\_\_\_\_ 1.478  
 4th MOMENT \_\_\_\_\_ 4.504

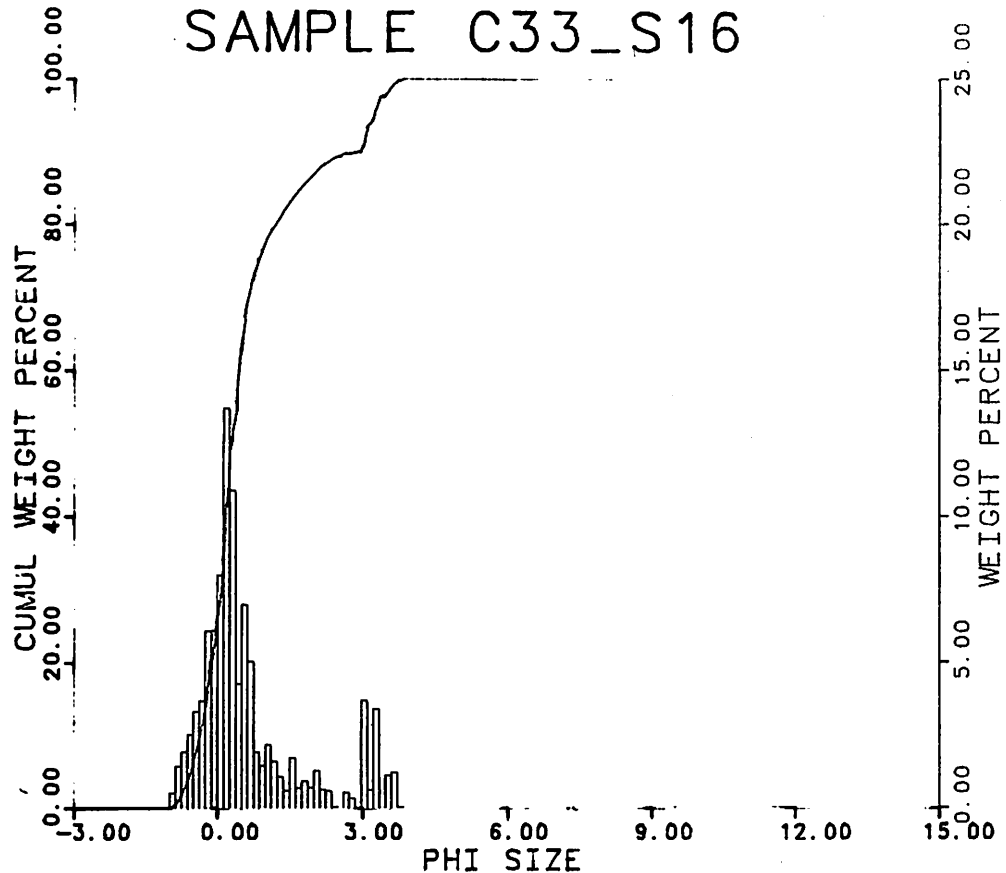
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S16



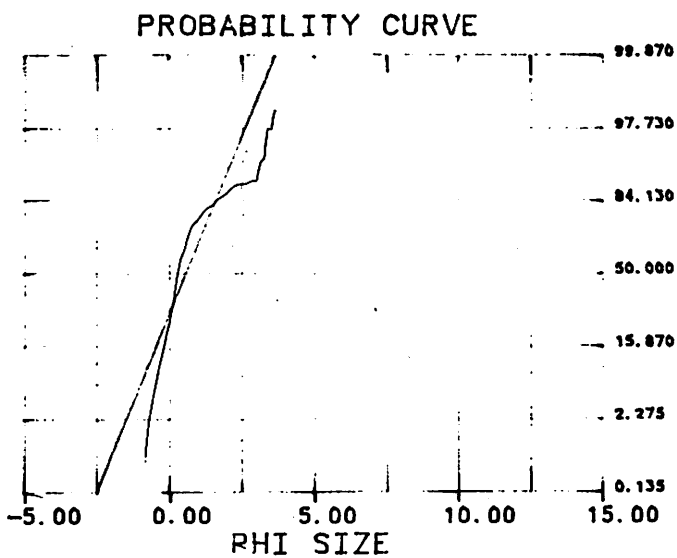
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 70.1  
 SAND \_\_\_\_\_ 23.5  
   V-COARSE SAND - 6.0  
   COARSE SAND    - 12.2  
   MEDIUM SAND   - 2.2  
   FINE SAND       - 0.8  
   V-FINE SAND    - 2.3  
   SILT            - 6.4  
 CLAY             - 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 0.284  
 MEAN \_\_\_\_\_ 0.560  
 STD. DEVIATION \_\_\_\_\_ 1.028  
 INC. SKEWNESS \_\_\_\_\_ 0.511  
 INC. KURTOSIS \_\_\_\_\_ 1.941

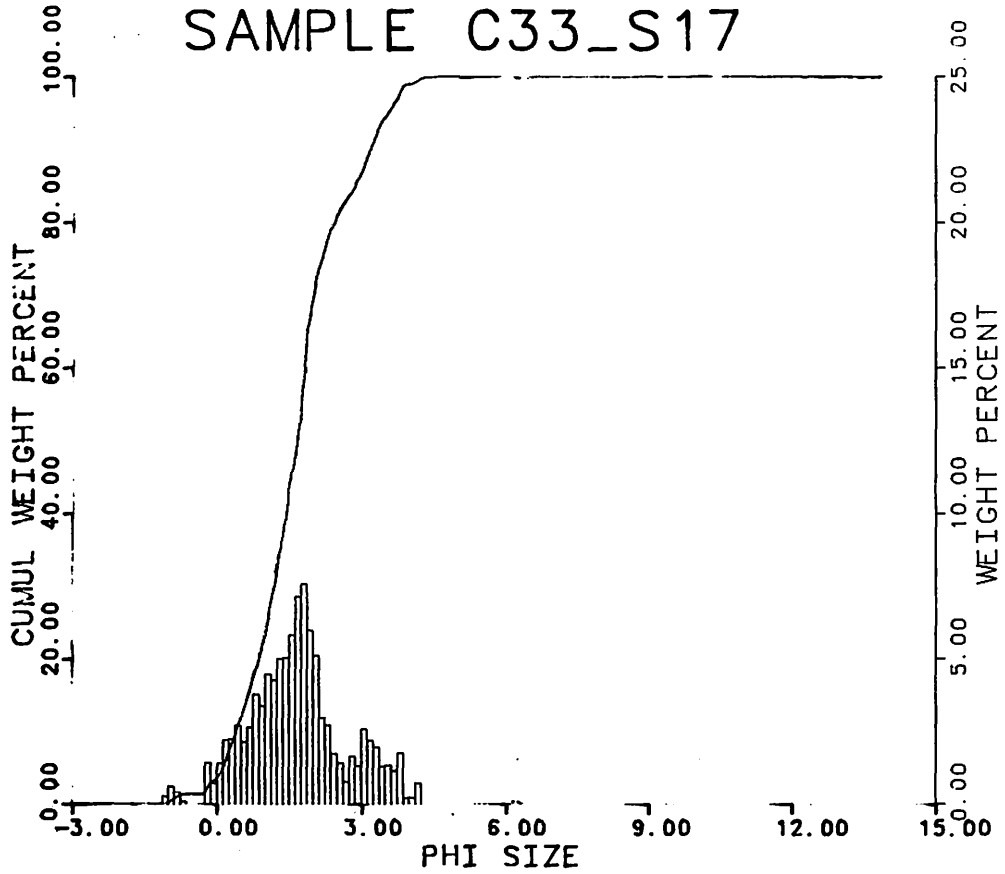
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 0.638  
 2nd MOMENT \_\_\_\_\_ 1.088  
 3rd MOMENT \_\_\_\_\_ 1.411  
 4th MOMENT \_\_\_\_\_ 4.160

DATE: 7-19-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C33\_S17



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Grass Parameters (%)

GRAVEL \_\_\_\_\_ 18.8  
 SAND \_\_\_\_\_ 67.1  
 V-COARSE SAND - 2.2  
 COARSE SAND - 13.8  
 MEDIUM SAND 30.7  
 FINE SAND 11.9  
 V-FINE SAND 8.4  
 SILT \_\_\_\_\_ 14.1  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

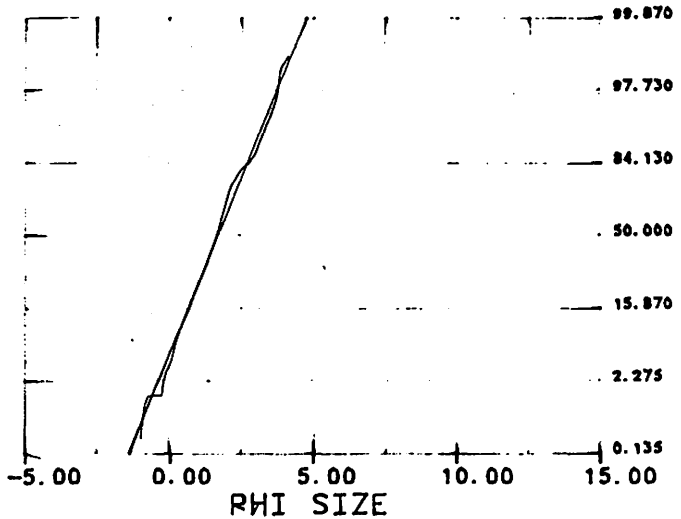
MEDIAN \_\_\_\_\_ 1.633  
 MEAN \_\_\_\_\_ 1.711  
 STD. DEVIATION 1.029  
 INC. SKEWNESS 0.093  
 INC. KURTOSIS 0.803

### Moment Measures

1st MOMENT \_\_\_\_\_ 1.674  
 2nd MOMENT \_\_\_\_\_ 0.999  
 3rd MOMENT \_\_\_\_\_ 0.199  
 4th MOMENT \_\_\_\_\_ 2.980

DATE: 7-19-88

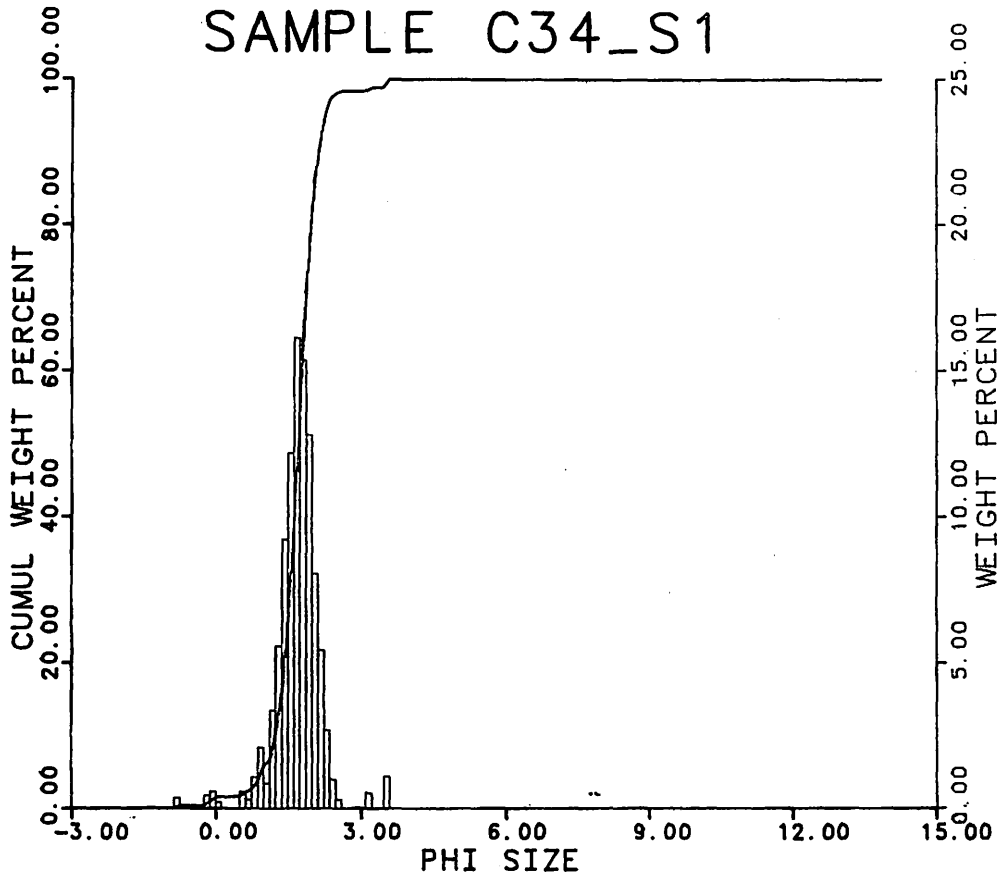
### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C34\_S1



### Sample Location

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

### Gross Parameters (%)

GRAVEL ——— 0.3  
 SAND ——— 97.7  
   V-COARSE SAND — 1.4  
   COARSE SAND — 4.1  
   MEDIUM SAND — 73.7  
   FINE SAND — 17.0  
   V-FINE SAND — 1.6  
 SILT ——— 2.0  
 CLAY ——— 0.0

### Graphic Measures

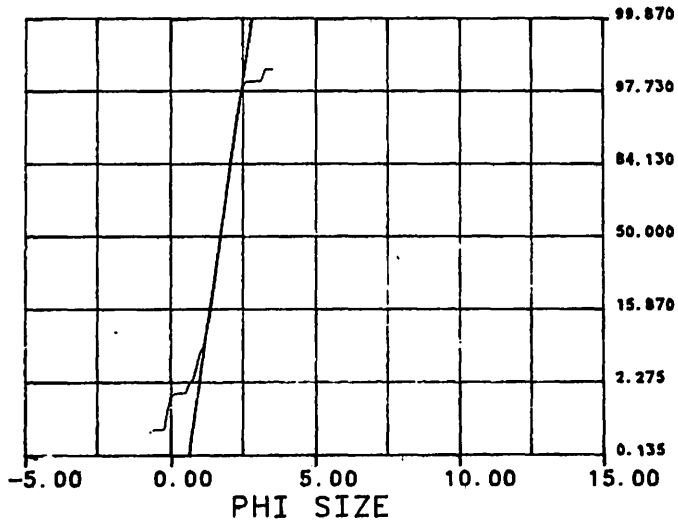
MEDIAN ——— 1.728  
 MEAN ——— 1.720  
 STD. DEVIATION — 0.384  
 INC. SKEWNESS — -0.101  
 INC. KURTOSIS — 0.408

### Moment Measures

1st MOMENT ——— 1.704  
 2nd MOMENT ——— 0.472  
 3rd MOMENT ——— -0.604  
 4th MOMENT ——— 9.720

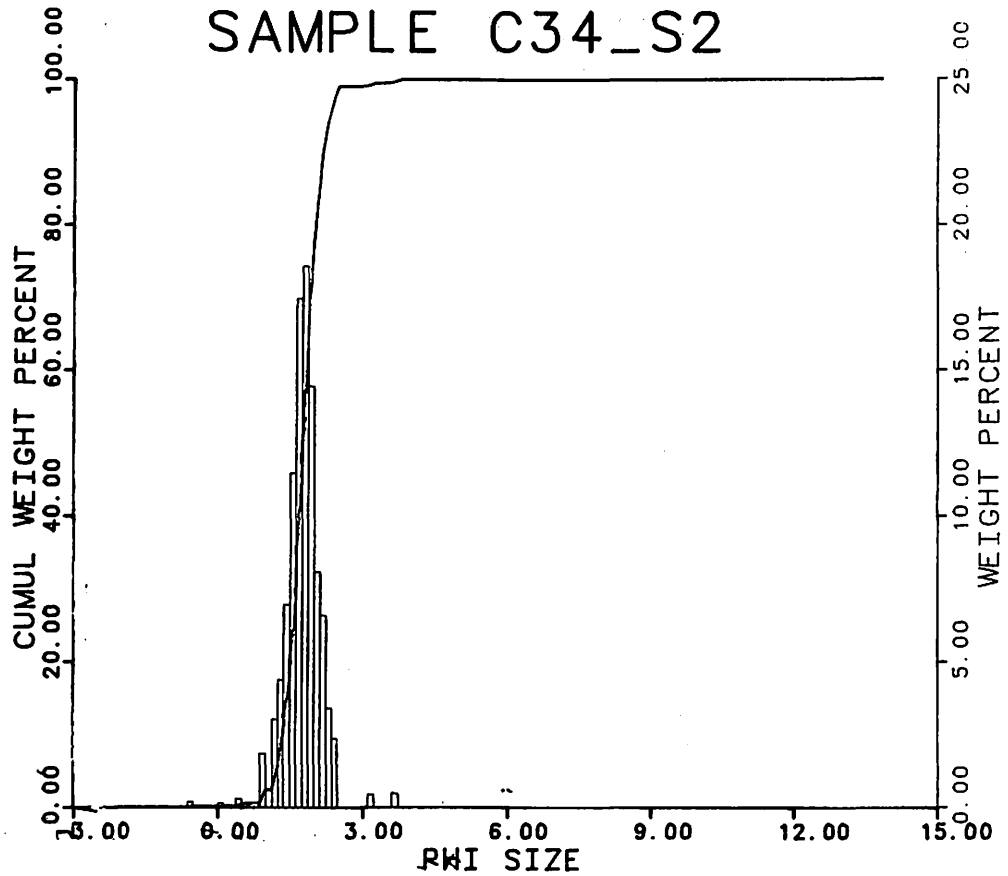
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S2



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

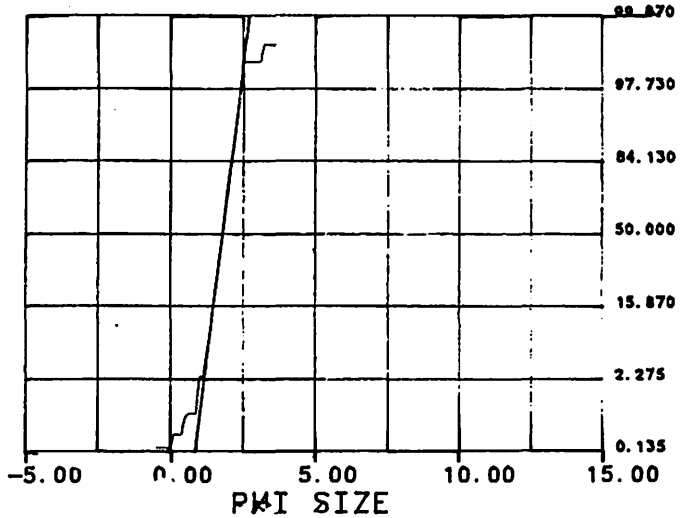
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 98.2  
 V-COARSE SAND - 0.2  
 COARSE SAND \_\_\_\_\_ 2.3  
 MEDIUM SAND \_\_\_\_\_ 74.9  
 FINE SAND \_\_\_\_\_ 20.0  
 V-FINE SAND \_\_\_\_\_ 0.9  
 SILT \_\_\_\_\_ 1.8  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 1.779  
 MEAN \_\_\_\_\_ 1.782  
 STD. DEVIATION \_\_\_\_\_ 0.313  
 INC. SKEWNESS \_\_\_\_\_ 0.000  
 INC. KURTOSIS \_\_\_\_\_ 0.337

Moment Measures  
 1st MOMENT \_\_\_\_\_ 1.778  
 2nd MOMENT \_\_\_\_\_ 0.385  
 3rd MOMENT \_\_\_\_\_ 0.073  
 4th MOMENT \_\_\_\_\_ 9.736

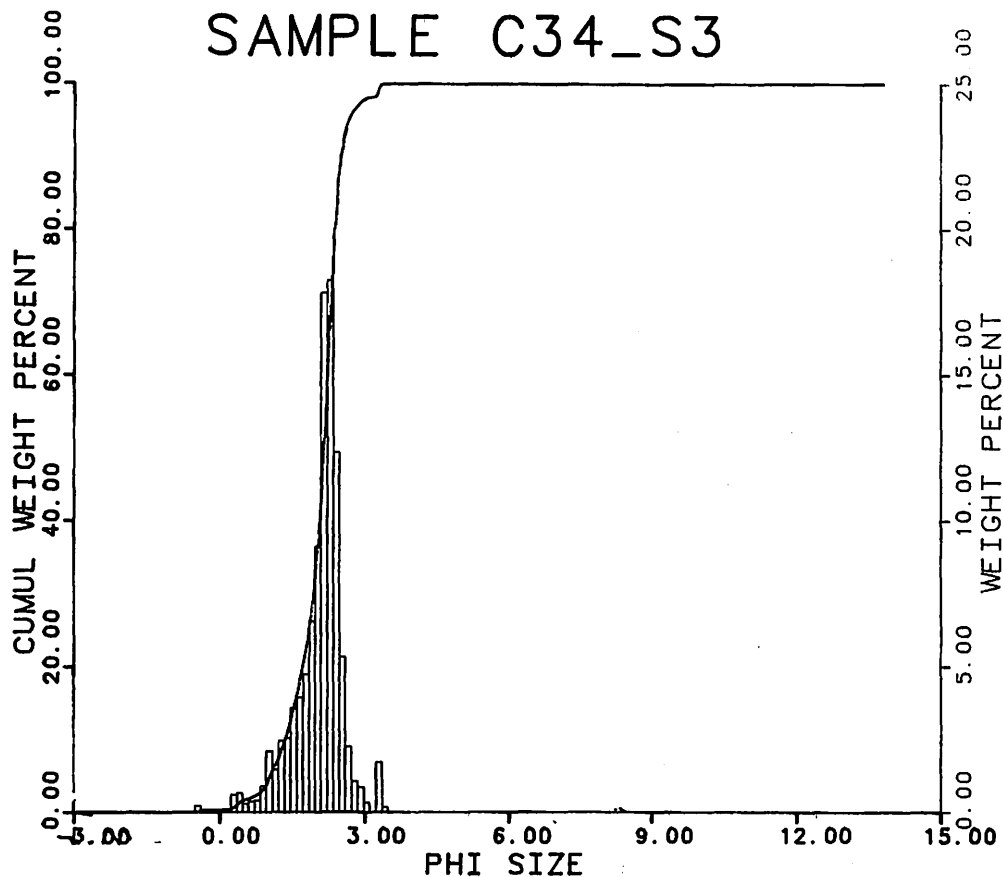
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S3



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

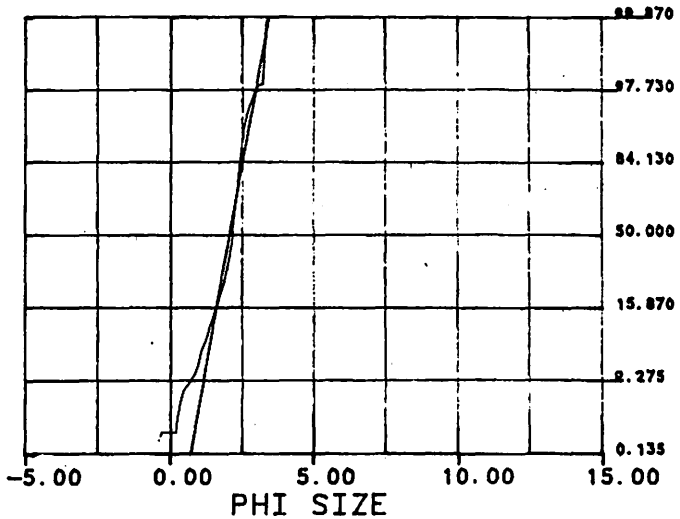
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.6  
 SAND \_\_\_\_\_ 86.2  
 V-COARSE SAND - 0.3  
 COARSE SAND \_\_\_\_\_ 3.1  
 MEDIUM SAND \_\_\_\_\_ 26.3  
 FINE SAND \_\_\_\_\_ 64.4  
 V-FINE SAND \_\_\_\_\_ 2.1  
 SILT \_\_\_\_\_ 3.2  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.196  
 MEAN \_\_\_\_\_ 2.096  
 STD. DEVIATION \_\_\_\_\_ 0.449  
 INC. SKEWNESS \_\_\_\_\_ -0.368  
 INC. KURTOSIS \_\_\_\_\_ 0.414

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.086  
 2nd MOMENT \_\_\_\_\_ 0.509  
 3rd MOMENT \_\_\_\_\_ -1.128  
 4th MOMENT \_\_\_\_\_ 5.969

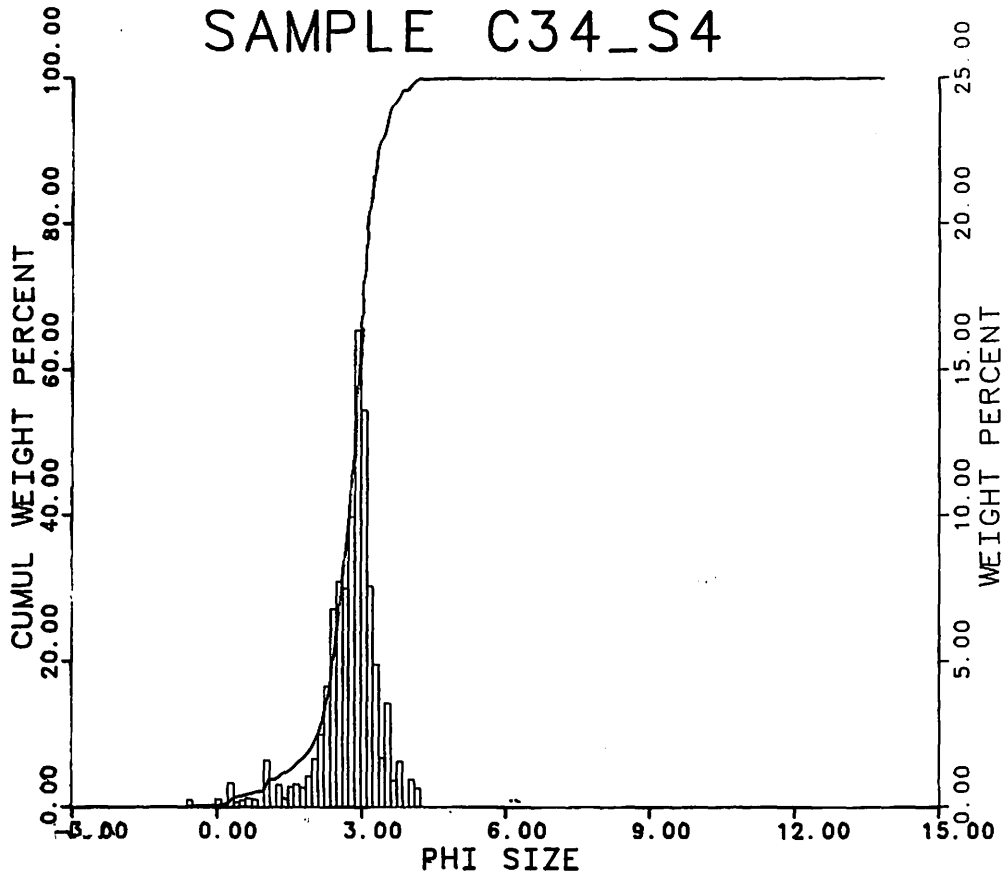
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S4



## Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

## Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.7  
 SAND \_\_\_\_\_ 90.2  
 V-COARSE SAND - 0.2  
 COARSE SAND \_\_\_\_\_ 1.8  
 MEDIUM SAND \_\_\_\_\_ 5.4  
 FINE SAND \_\_\_\_\_ 51.9  
 V-FINE SAND \_\_\_\_\_ 30.9  
 SILT \_\_\_\_\_ 9.1  
 CLAY \_\_\_\_\_ 0.0

## Graphic Measures

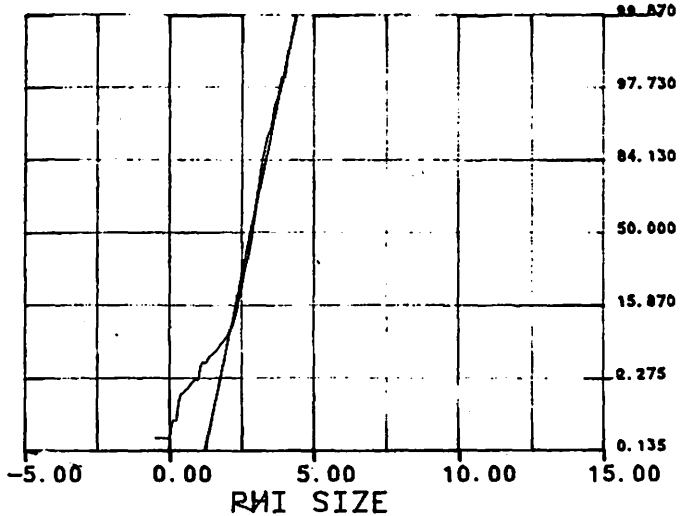
MEDIAN \_\_\_\_\_ 2.888  
 MEAN \_\_\_\_\_ 2.824  
 STD. DEVIATION \_\_\_\_\_ 0.527  
 INC. SKEWNESS \_\_\_\_\_ -0.273  
 INC. KURTOSIS \_\_\_\_\_ 0.412

## Moment Measures

1st MOMENT \_\_\_\_\_ 2.766  
 2nd MOMENT \_\_\_\_\_ 0.632  
 3rd MOMENT \_\_\_\_\_ -1.594  
 4th MOMENT \_\_\_\_\_ 7.743

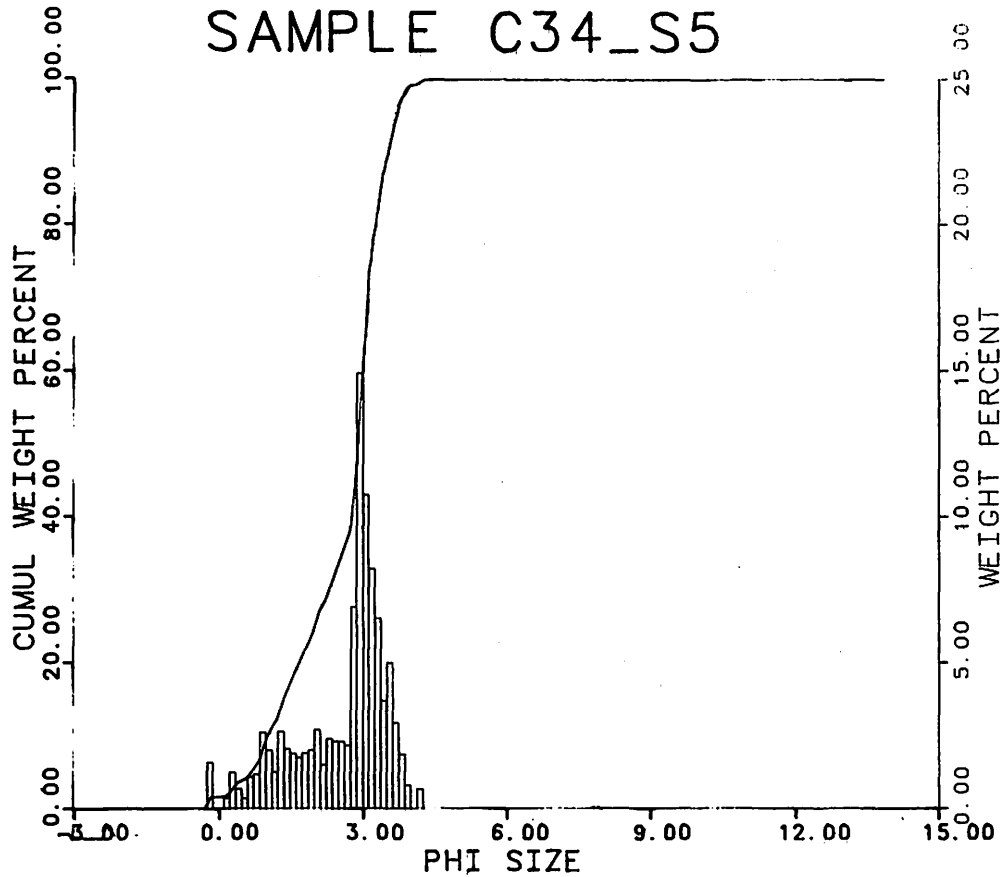
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S5



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

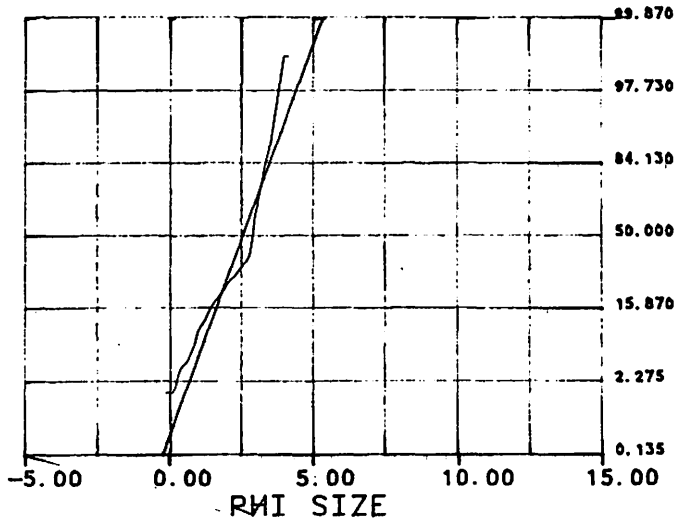
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.5  
 SAND \_\_\_\_\_ 88.3  
 V-COARSE SAND \_\_\_\_\_ 1.4  
 COARSE SAND \_\_\_\_\_ 6.6  
 MEDIUM SAND \_\_\_\_\_ 13.7  
 FINE SAND \_\_\_\_\_ 31.3  
 V-FINE SAND \_\_\_\_\_ 35.3  
 SILT \_\_\_\_\_ 11.2  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 2.920  
 MEAN \_\_\_\_\_ 2.572  
 STD. DEVIATION \_\_\_\_\_ 0.926  
 INC. SKEWNESS \_\_\_\_\_ -0.516  
 INC. KURTOSIS \_\_\_\_\_ 0.512

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.577  
 2nd MOMENT \_\_\_\_\_ 0.939  
 3rd MOMENT \_\_\_\_\_ -1.023  
 4th MOMENT \_\_\_\_\_ 3.286

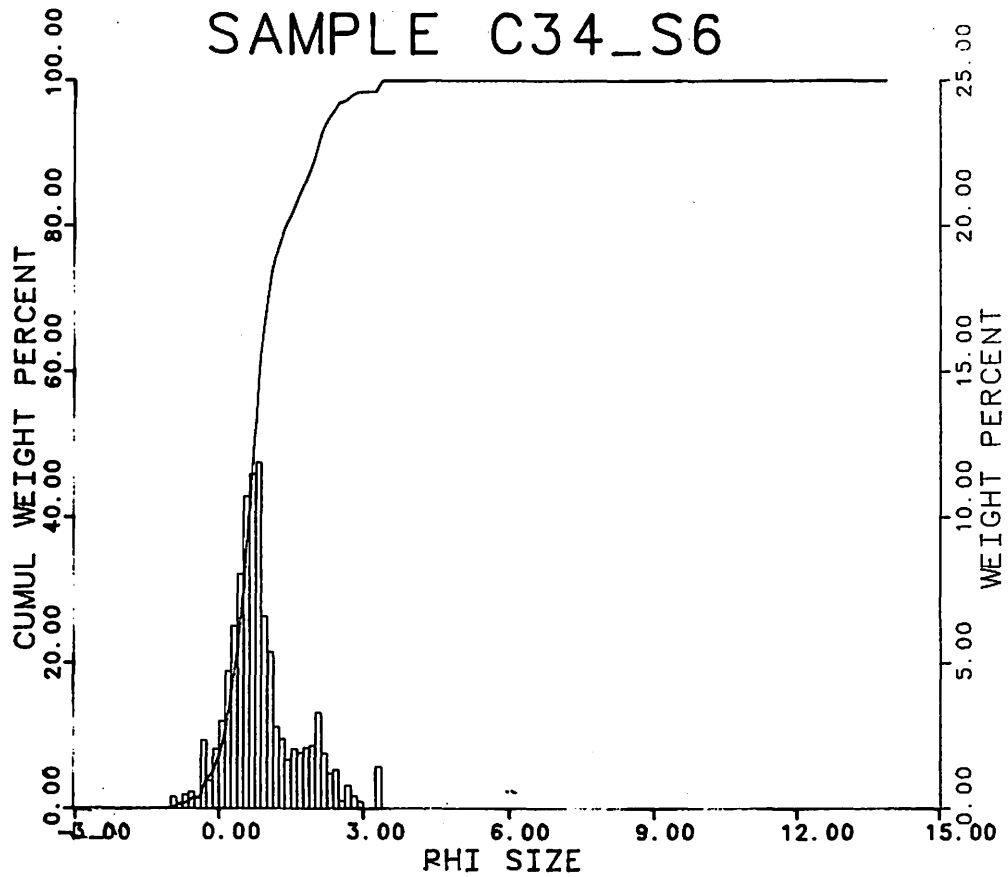
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S6



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

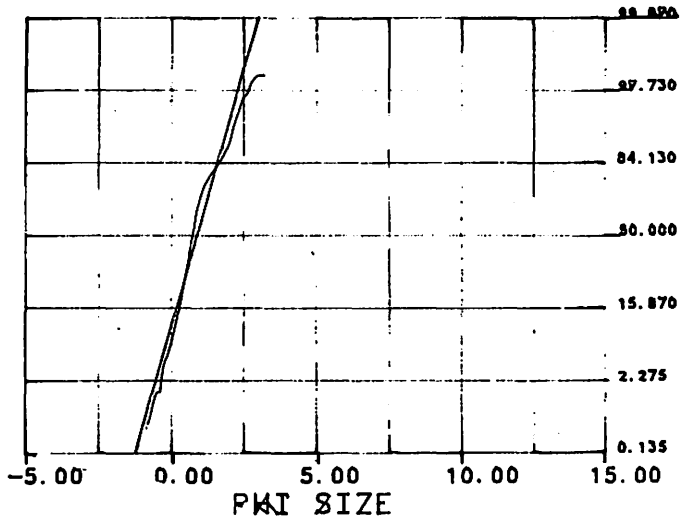
Grass Parameters (%)  
 GRAVEL \_\_\_\_\_ 3.9  
 SAND \_\_\_\_\_ 92.6  
 V-COARSE SAND - 6.3  
 COARSE SAND \_\_\_\_\_ 57.9  
 MEDIUM SAND \_\_\_\_\_ 18.6  
 FINE SAND \_\_\_\_\_ 8.5  
 V-FINE SAND \_\_\_\_\_ 1.3  
 SILT \_\_\_\_\_ 3.5  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 0.740  
 MEAN \_\_\_\_\_ 0.894  
 STD. DEVIATION \_\_\_\_\_ 0.710  
 INC. SKEWNESS \_\_\_\_\_ 0.314  
 INC. KURTOSIS \_\_\_\_\_ 1.029

Moment Measures  
 1st MOMENT \_\_\_\_\_ 0.881  
 2nd MOMENT \_\_\_\_\_ 0.735  
 3rd MOMENT \_\_\_\_\_ 0.897  
 4th MOMENT \_\_\_\_\_ 4.068

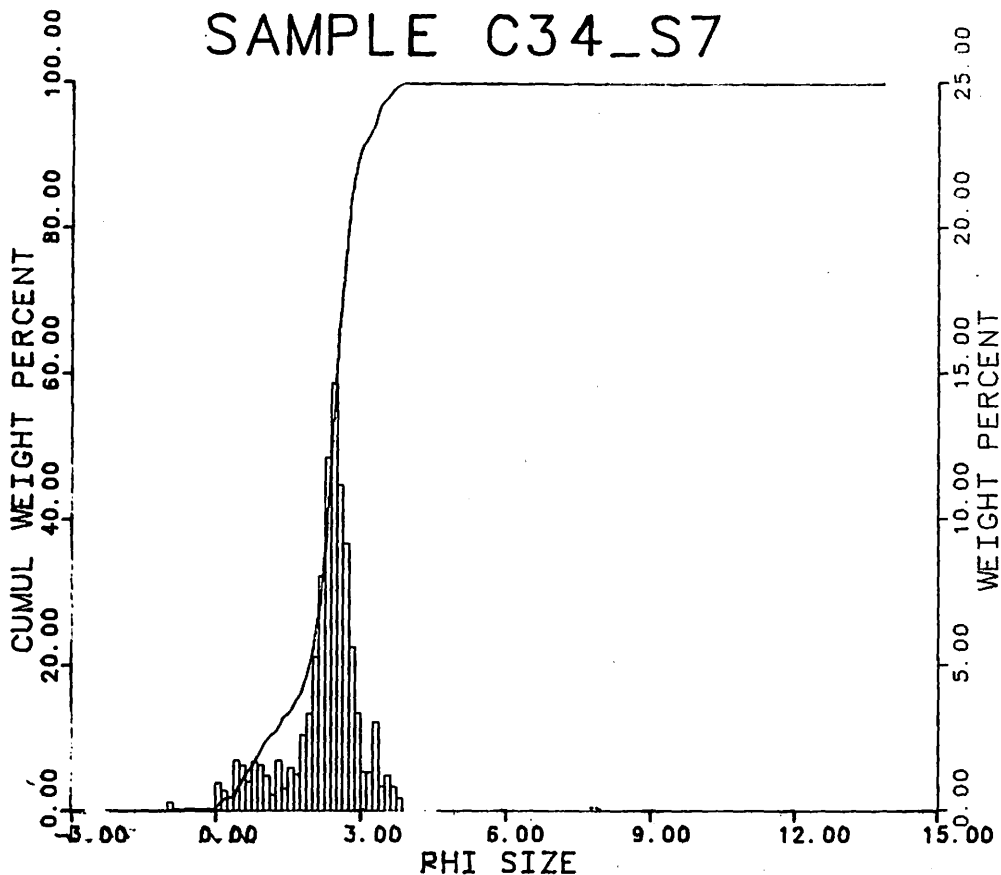
DATE: 7-19-88

## PROBABILITY CURVE

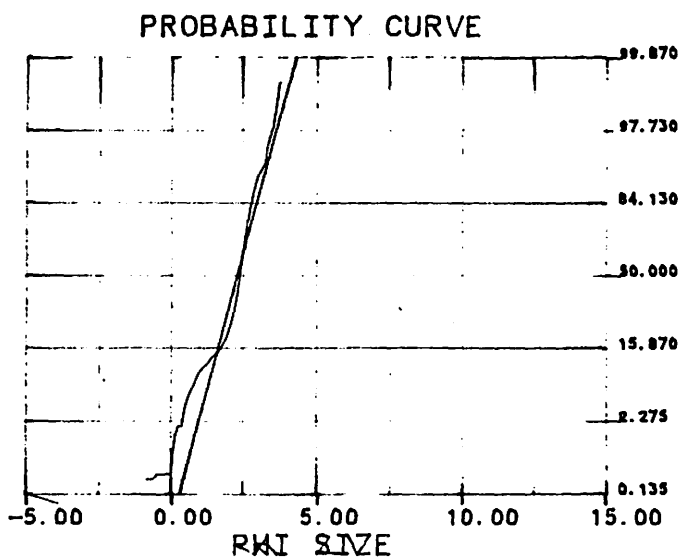


OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S7

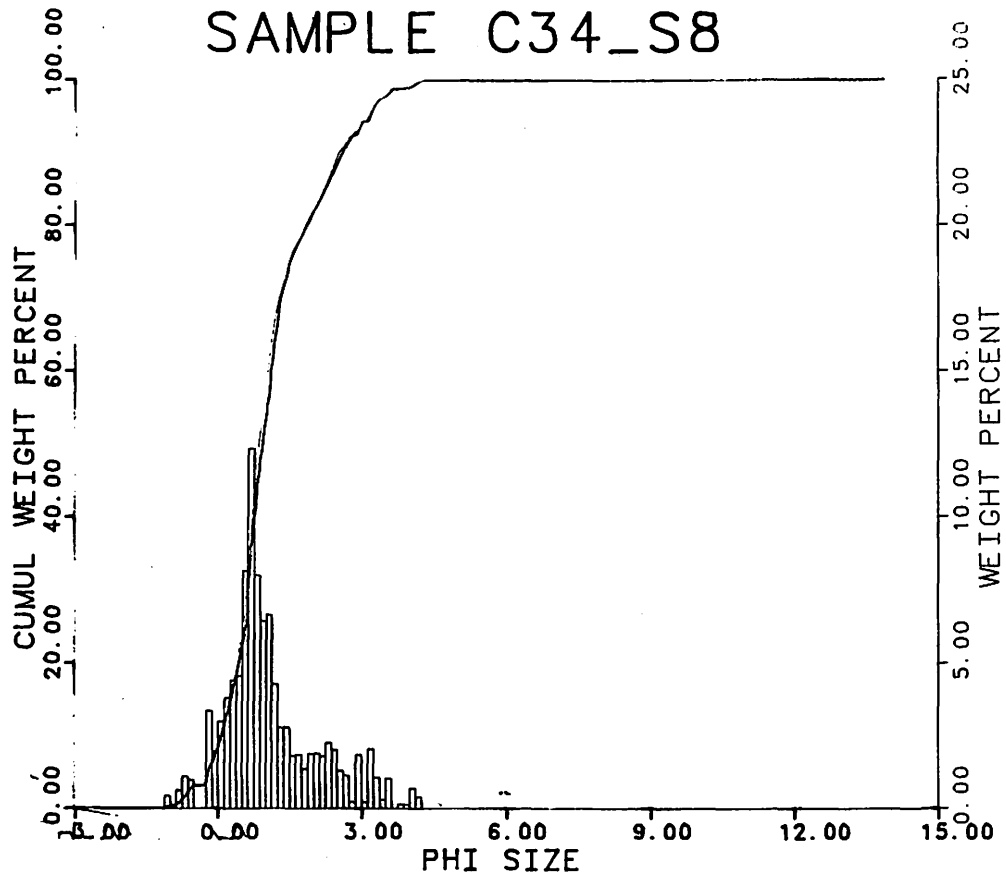


<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	2.6
SAND	80.7
V-COARSE SAND	0.3
COARSE SAND	8.1
MEDIUM SAND	11.5
FINE SAND	62.8
V-FINE SAND	8.0
SILT	6.7
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.398
MEAN	2.310
STD. DEVIATION	0.688
INC. SKEWNESS	-0.288
INC. KURTOSIS	0.611
<b>Moment Measures</b>	
1st MOMENT	2.259
2nd MOMENT	0.727
3rd MOMENT	-1.156
4th MOMENT	4.839
DATE:	7-19-88



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C34\_S8



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 16.3  
 SAND \_\_\_\_\_ 78.9  
 V-COARSE SAND - 6.2  
 COARSE SAND \_\_\_\_\_ 39.4  
 MEDIUM SAND \_\_\_\_\_ 18.1  
 FINE SAND \_\_\_\_\_ 9.5  
 V-FINE SAND \_\_\_\_\_ 3.7  
 SILT \_\_\_\_\_ 6.8  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

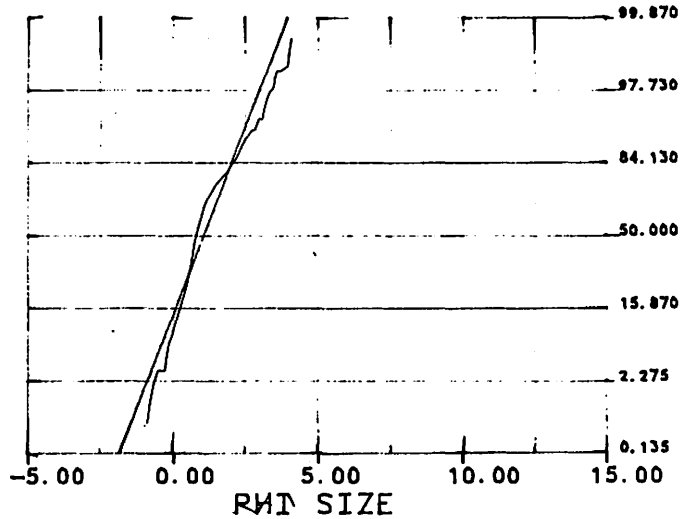
MEDIAN \_\_\_\_\_ 0.837  
 MEAN \_\_\_\_\_ 1.080  
 STD. DEVIATION - 0.989  
 INC. SKEWNESS - 0.383  
 INC. KURTOSIS - 1.072

### Moment Measures

1st MOMENT \_\_\_\_\_ 1.079  
 2nd MOMENT \_\_\_\_\_ 0.989  
 3rd MOMENT \_\_\_\_\_ 0.888  
 4th MOMENT \_\_\_\_\_ 3.654

DATE: 7-19-88

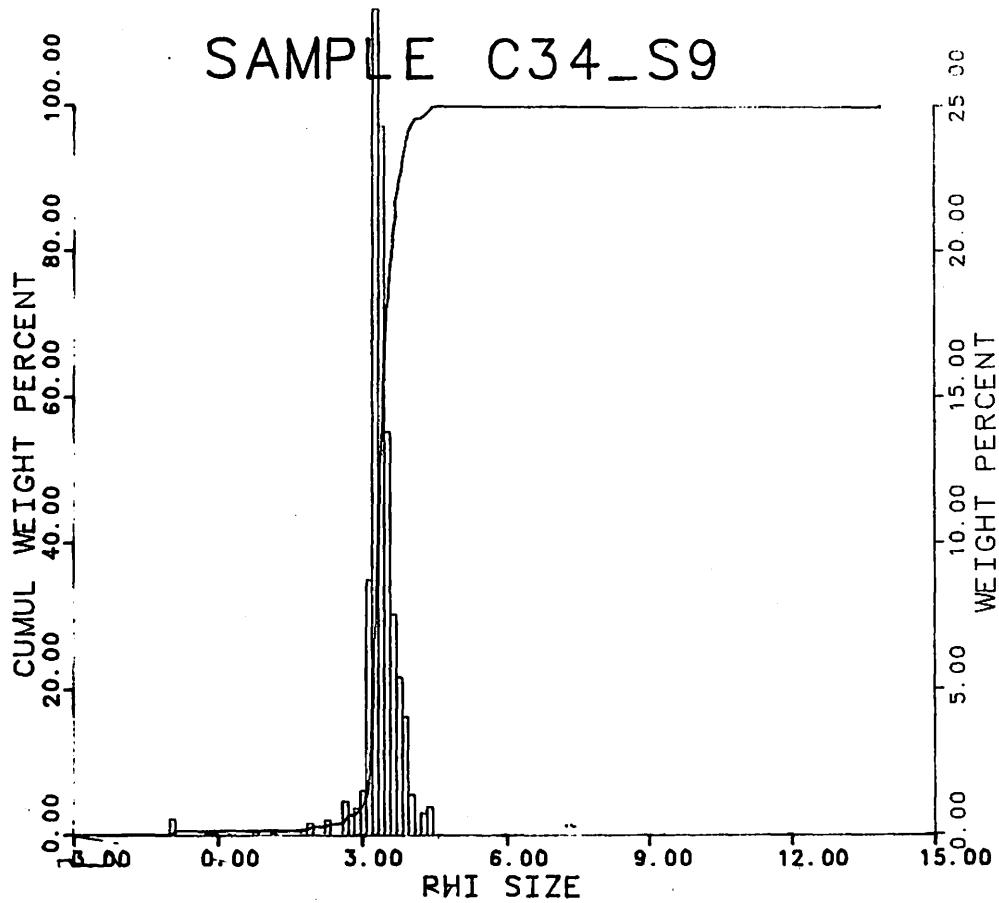
### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C34\_S9



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (X)

GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 73.6  
 V-COARSE SAND \_\_\_\_\_ 0.4  
 COARSE SAND \_\_\_\_\_ 0.0  
 MEDIUM SAND \_\_\_\_\_ 0.4  
 FINE SAND \_\_\_\_\_ 1.9  
 V-FINE SAND \_\_\_\_\_ 70.9  
 SILT \_\_\_\_\_ 26.4  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

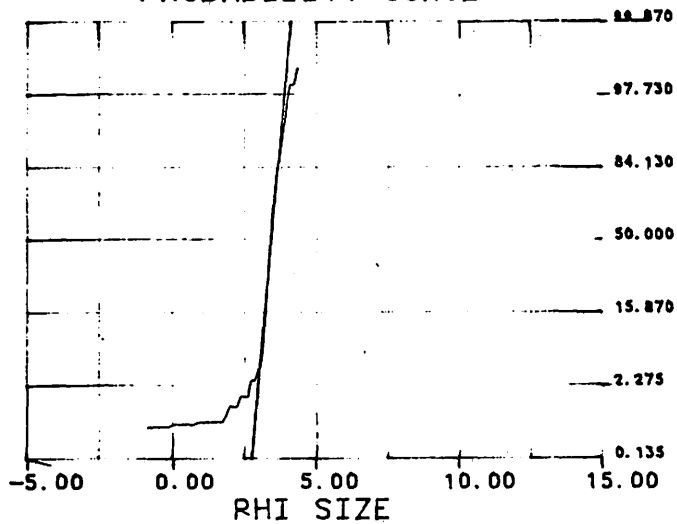
MEDIAN \_\_\_\_\_ 3.416  
 MEAN \_\_\_\_\_ 3.455  
 STD. DEVIATION \_\_\_\_\_ 0.231  
 INC. SKEWNESS \_\_\_\_\_ 0.274  
 INC. KURTOSIS \_\_\_\_\_ 0.151

### Moment Measures

1st MOMENT \_\_\_\_\_ 3.423  
 2nd MOMENT \_\_\_\_\_ 0.438  
 3rd MOMENT \_\_\_\_\_ -5.544  
 4th MOMENT \_\_\_\_\_ 55.408

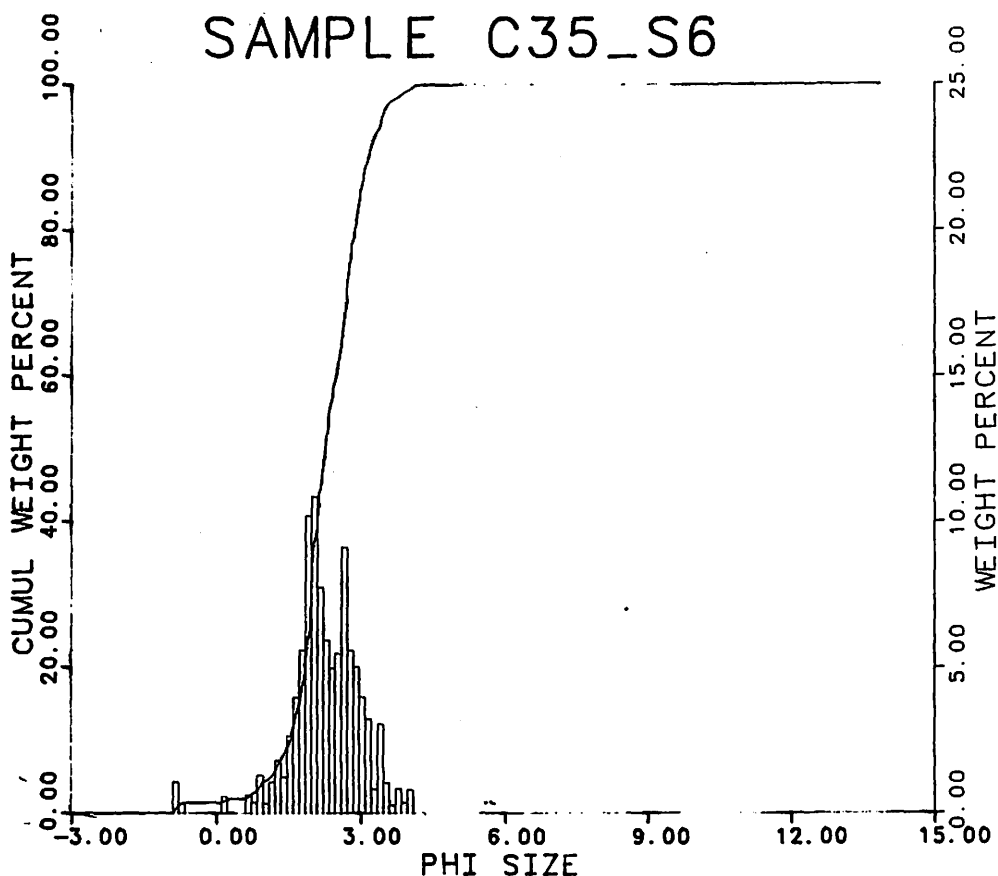
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C35\_S6



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

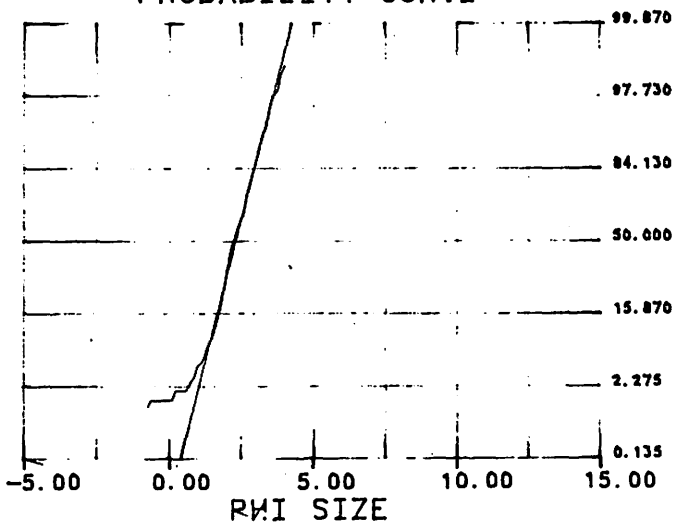
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 84.8  
 V-COARSE SAND \_\_\_\_\_ 1.2  
 COARSE SAND \_\_\_\_\_ 2.4  
 MEDIUM SAND \_\_\_\_\_ 22.9  
 FINE SAND \_\_\_\_\_ 46.7  
 V-FINE SAND \_\_\_\_\_ 11.5  
 SILT \_\_\_\_\_ 15.2  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.257  
 MEAN \_\_\_\_\_ 2.327  
 STD. DEVIATION \_\_\_\_\_ 0.639  
 INC. SKEWNESS \_\_\_\_\_ 0.107  
 INC. KURTOSIS \_\_\_\_\_ 0.471

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.293  
 2nd MOMENT \_\_\_\_\_ 0.733  
 3rd MOMENT \_\_\_\_\_ -0.932  
 4th MOMENT \_\_\_\_\_ 6.311

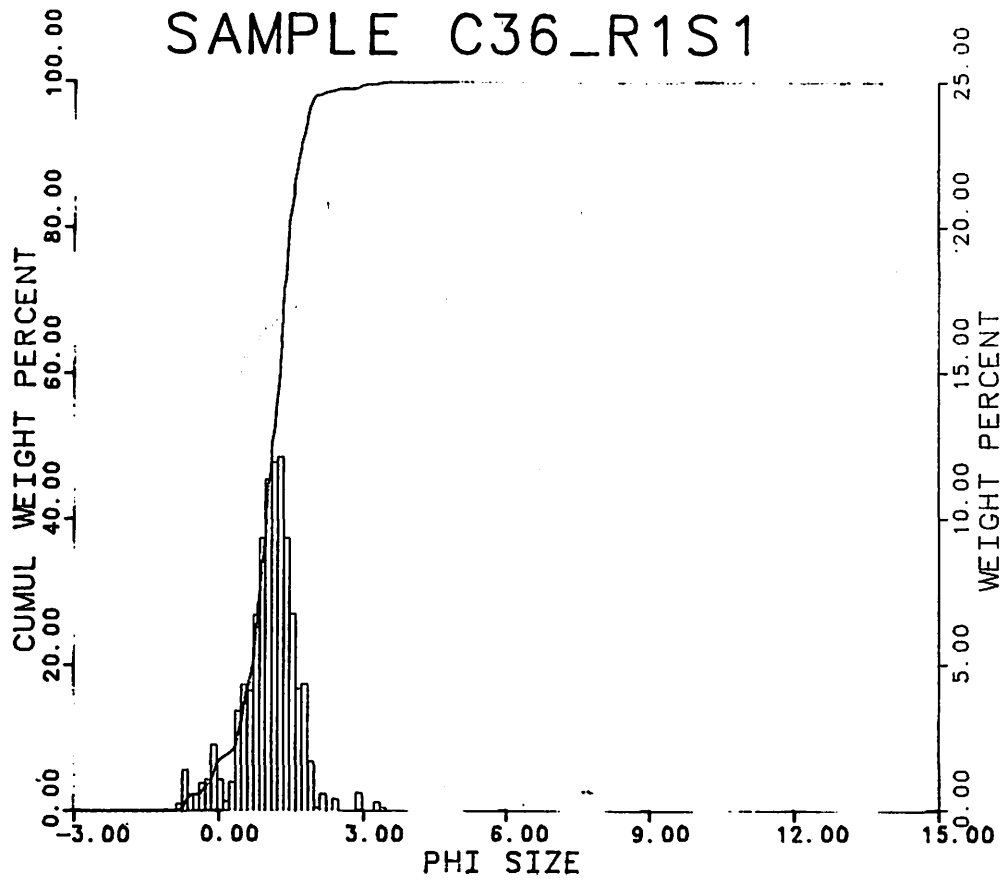
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C36\_R1S1



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

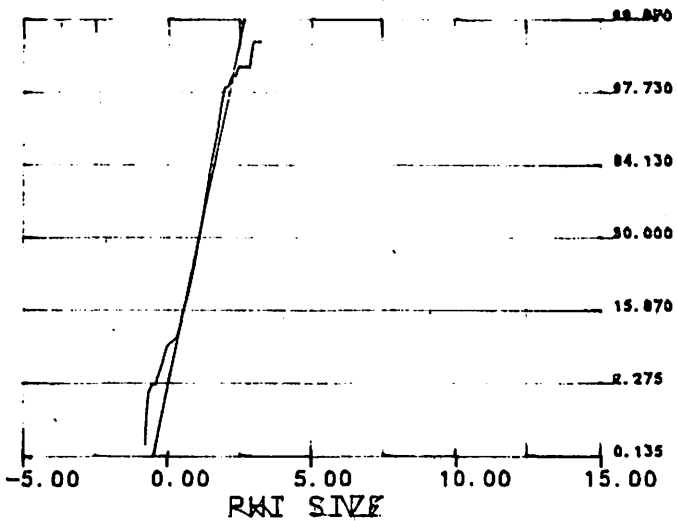
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 4.9  
 SAND \_\_\_\_\_ 93.2  
   V-COARSE SAND - 5.9  
   COARSE SAND \_\_\_\_\_ 28.1  
   MEDIUM SAND \_\_\_\_\_ 57.4  
   FINE SAND \_\_\_\_\_ 1.5  
   V-FINE SAND \_\_\_\_\_ 0.3  
 SILT \_\_\_\_\_ 1.8  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.148  
 MEAN \_\_\_\_\_ 1.105  
 STD. DEVIATION \_\_\_\_\_ 0.524  
 INC. SKEWNESS \_\_\_\_\_ -0.209  
 INC. KURTOSIS \_\_\_\_\_ 0.728

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.088  
 2nd MOMENT \_\_\_\_\_ 0.571  
 3rd MOMENT \_\_\_\_\_ -0.483  
 4th MOMENT \_\_\_\_\_ 5.158

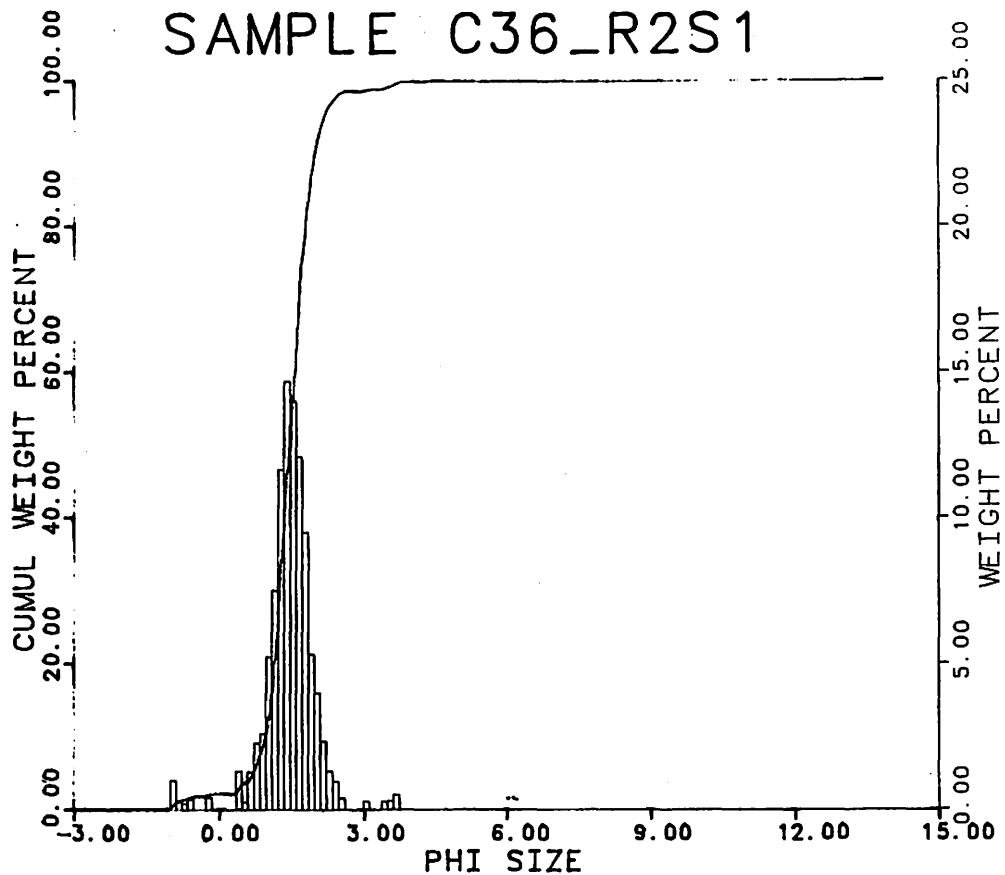
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C36\_R2S1



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

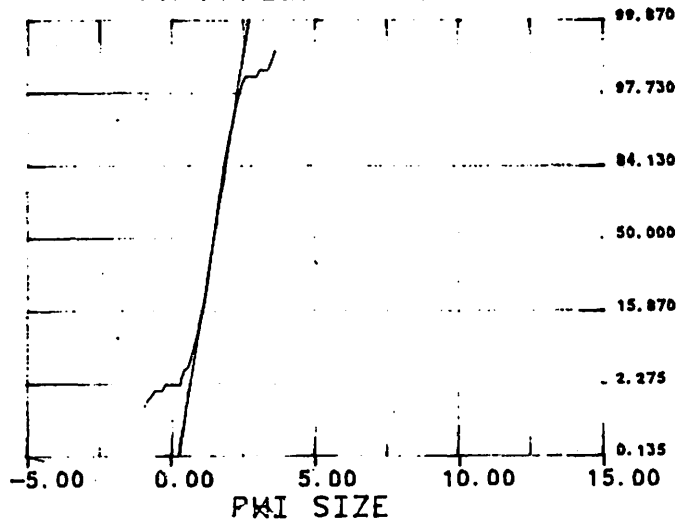
Grass Parameters (%)  
 GRAVEL ——— 1.3  
 SAND ——— 98.7  
   V-COARSE SAND — 2.1  
   COARSE SAND — 7.4  
   MEDIUM SAND — 77.3  
   FINE SAND — 88.8  
   V-FINE SAND — 1.3  
 SILT ——— 2.0  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 1.510  
 MEAN ——— 1.508  
 STD. DEVIATION — 0.401  
 INC. SKEWNESS — -0.035  
 INC. KURTOSIS — 0.482

Moment Measures  
 1st MOMENT ——— 1.480  
 2nd MOMENT ——— 0.342  
 3rd MOMENT ——— -0.817  
 4th MOMENT ——— 9.647

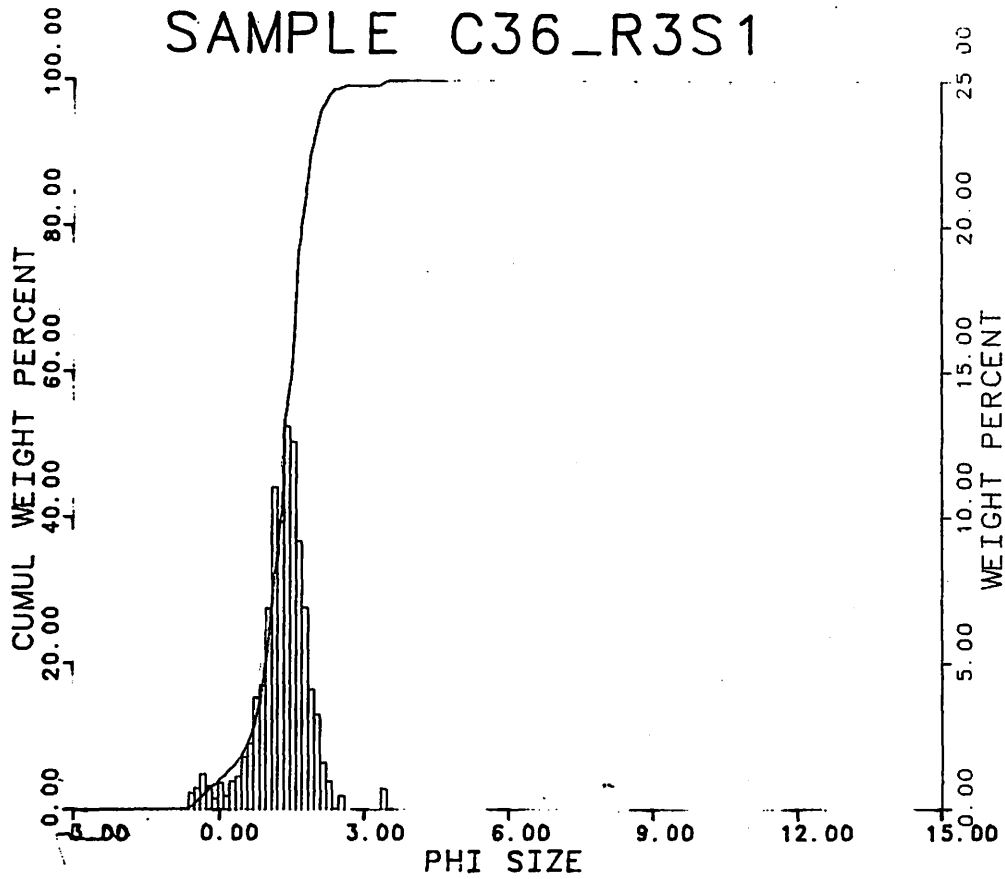
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C36\_R3S1



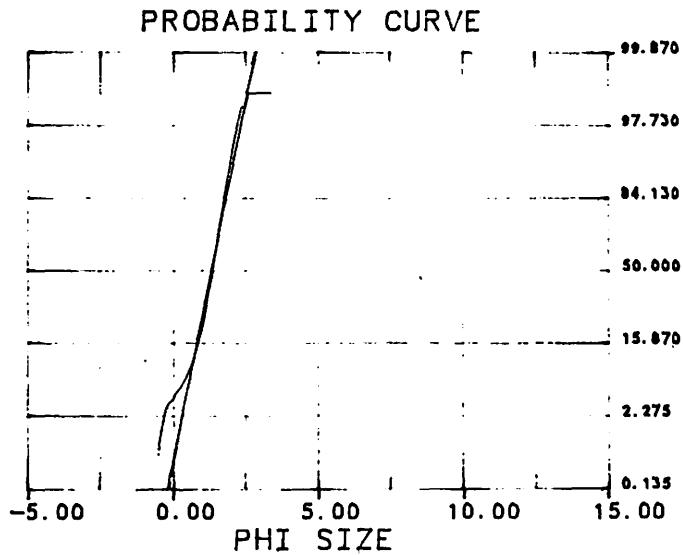
Sample Location  
 LATITUDE 0-0-0  
 LONGITUDE 0-0-0  
 DEPTH (m) 0.00

Gross Parameters (%)  
 GRAVEL 1.1  
 SAND 98.8  
 V-COARSE SAND 3.6  
 COARSE SAND 15.0  
 MEDIUM SAND 71.2  
 FINE SAND 8.1  
 V-FINE SAND 0.7  
 SILT 2.3  
 CLAY 0.0

Graphic Measures  
 MEDIAN 1.403  
 MEAN 1.365  
 STD. DEVIATION 0.501  
 INC. SKEWNESS -0.200  
 INC. KURTOSIS 0.630

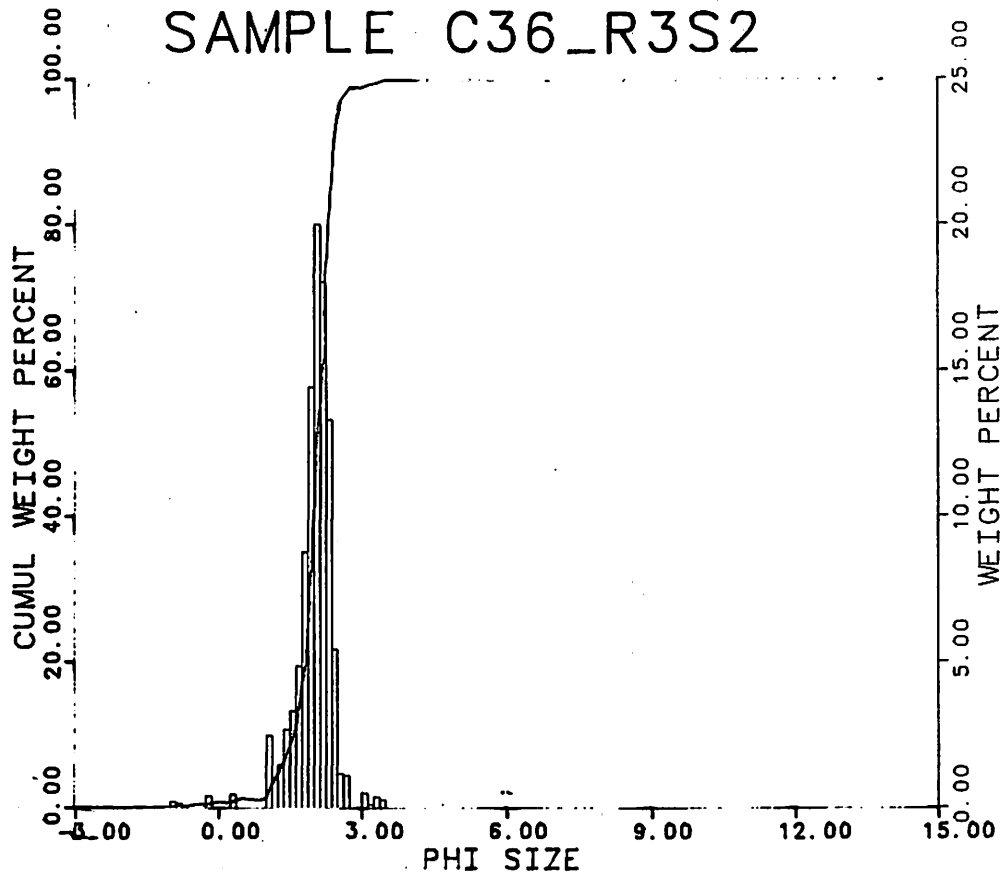
Moment Measures  
 1st MOMENT 1.335  
 2nd MOMENT 0.581  
 3rd MOMENT -0.621  
 4th MOMENT 5.530

DATE: 7-19-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C36\_R3S2



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

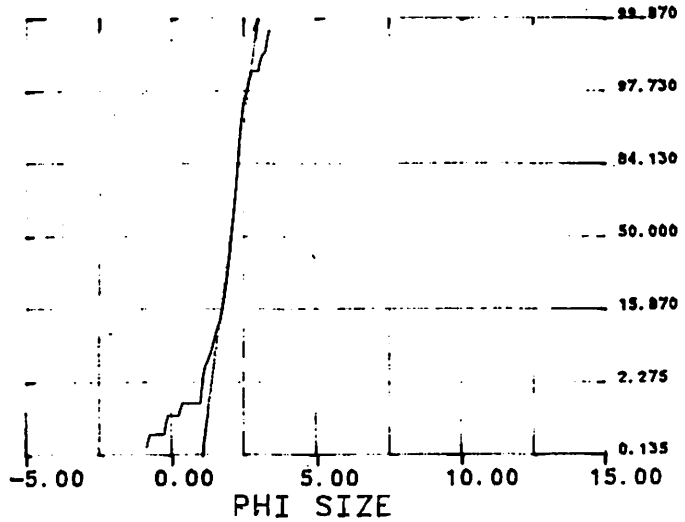
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 0.5  
 SAND \_\_\_\_\_ 98.4  
 V-COARSE SAND \_\_\_\_\_ 0.7  
 COARSE SAND \_\_\_\_\_ 0.4  
 MEDIUM SAND \_\_\_\_\_ 37.4  
 FINE SAND \_\_\_\_\_ 56.8  
 V-FINE SAND \_\_\_\_\_ 1.1  
 SILT \_\_\_\_\_ 3.1  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 2.063  
 MEAN \_\_\_\_\_ 2.033  
 STD. DEVIATION \_\_\_\_\_ 0.322  
 INC. SKEWNESS \_\_\_\_\_ -0.239  
 INC. KURTOSIS \_\_\_\_\_ 0.329

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.003  
 2nd MOMENT \_\_\_\_\_ 0.414  
 3rd MOMENT \_\_\_\_\_ -2.035  
 4th MOMENT \_\_\_\_\_ 14.195

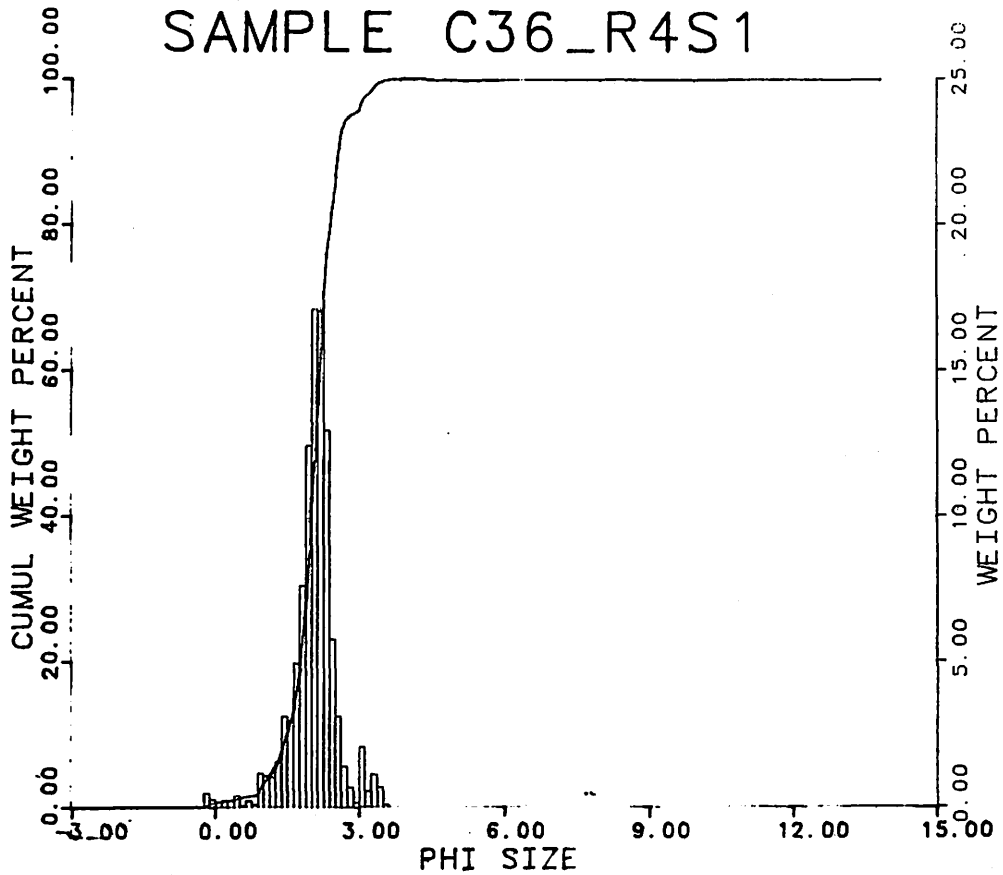
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C36\_R4S1



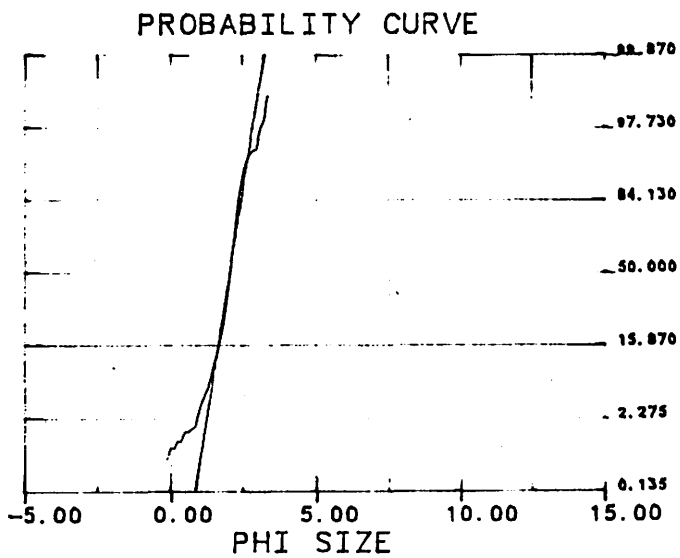
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-5-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 1.3  
 SAND \_\_\_\_\_ 98.5  
   V-COARSE SAND - 0.7  
   COARSE SAND - 2.0  
   MEDIUM SAND - 33.4  
   FINE SAND - 56.1  
   V-FINE SAND - 4.3  
 SILT \_\_\_\_\_ 2.2  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.092  
 MEAN \_\_\_\_\_ 2.059  
 STD. DEVIATION \_\_\_\_\_ 0.400  
 INC. SKEWNESS \_\_\_\_\_ -0.114  
 INC. KURTOSIS \_\_\_\_\_ 0.420

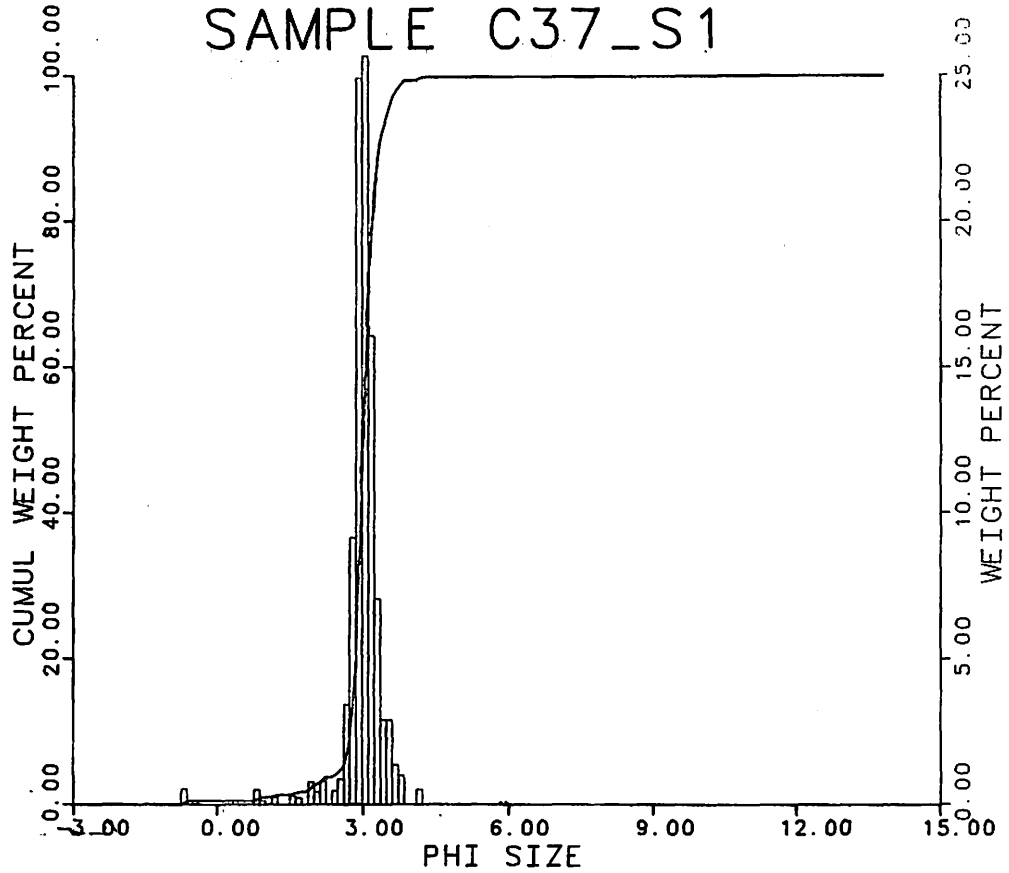
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.057  
 2nd MOMENT \_\_\_\_\_ 0.483  
 3rd MOMENT \_\_\_\_\_ -0.791  
 4th MOMENT \_\_\_\_\_ 7.326

DATE: 7-19-88



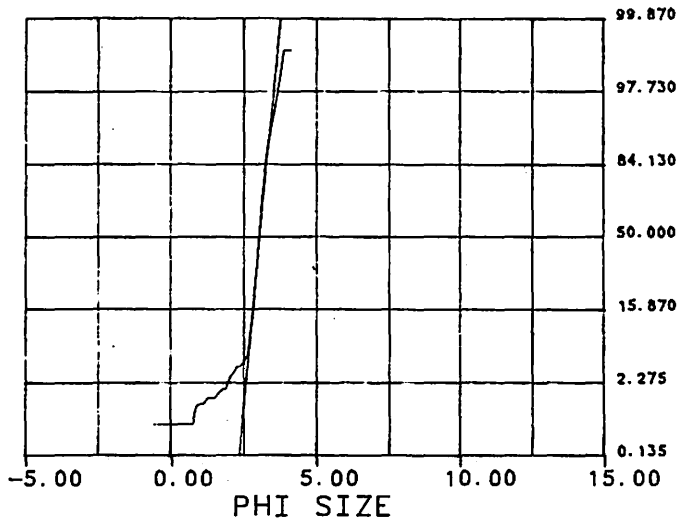
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C37\_S1



<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.4
SAND	88.6
V-COARSE SAND	0.5
COARSE SAND	0.5
MEDIUM SAND	1.3
FINE SAND	35.6
V-FINE SAND	50.7
SILT	11.0
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	3.036
MEAN	3.045
STD. DEVIATION	0.239
INC. SKEWNESS	0.071
INC. KURTOSIS	0.191
<b>Moment Measures</b>	
1st MOMENT	3.009
2nd MOMENT	0.437
3rd MOMENT	-4.078
4th MOMENT	32.078
DATE:	7-19-88

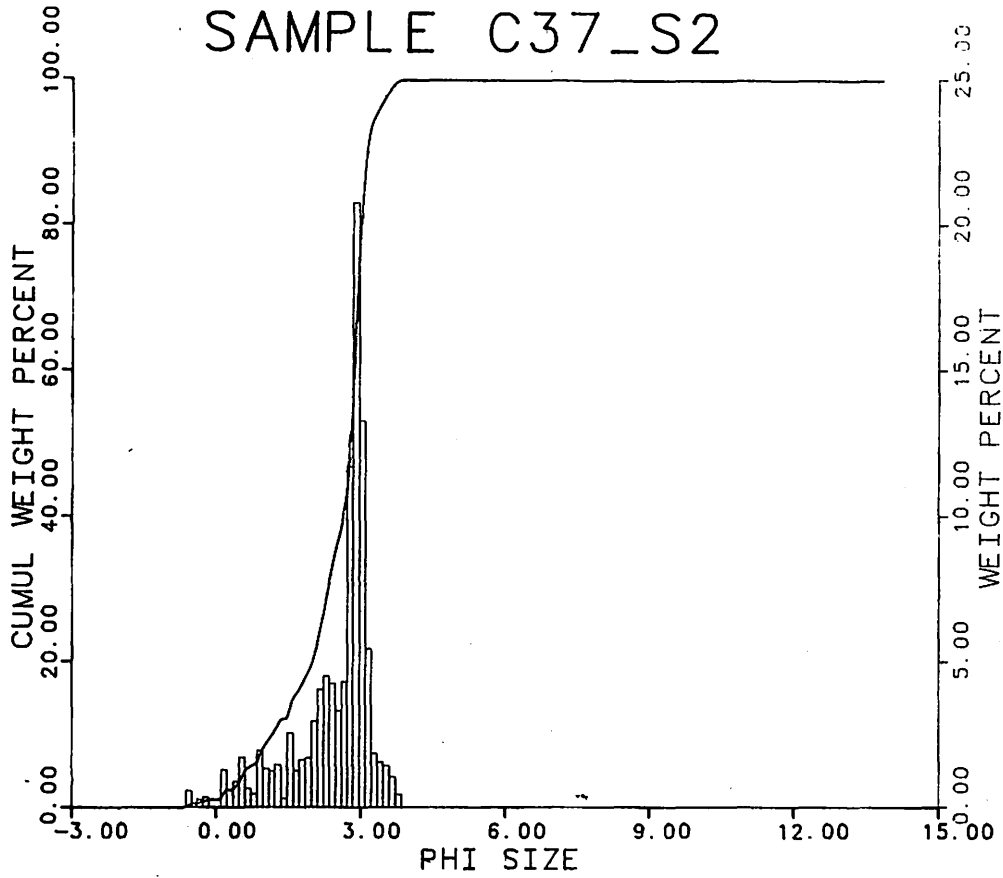
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C37\_S2



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.2  
 SAND \_\_\_\_\_ 91.4  
 V-COARSE SAND \_\_\_\_\_ 1.0  
 COARSE SAND \_\_\_\_\_ 6.3  
 MEDIUM SAND \_\_\_\_\_ 10.4  
 FINE SAND \_\_\_\_\_ 50.9  
 V-FINE SAND \_\_\_\_\_ 22.8  
 SILT \_\_\_\_\_ 8.4  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

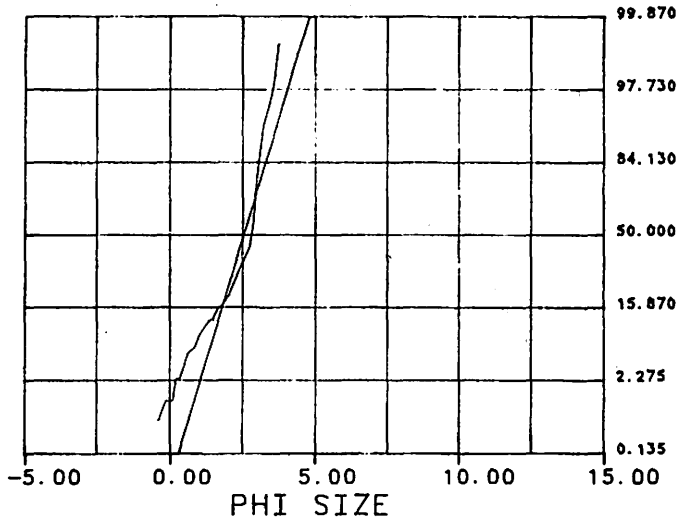
MEDIAN \_\_\_\_\_ 2.829  
 MEAN \_\_\_\_\_ 2.552  
 STD. DEVIATION \_\_\_\_\_ 0.746  
 INC. SKEWNESS \_\_\_\_\_ -0.622  
 INC. KURTOSIS \_\_\_\_\_ 0.530

### Moment Measures

1st MOMENT \_\_\_\_\_ 2.503  
 2nd MOMENT \_\_\_\_\_ 0.810  
 3rd MOMENT \_\_\_\_\_ -1.464  
 4th MOMENT \_\_\_\_\_ 4.789

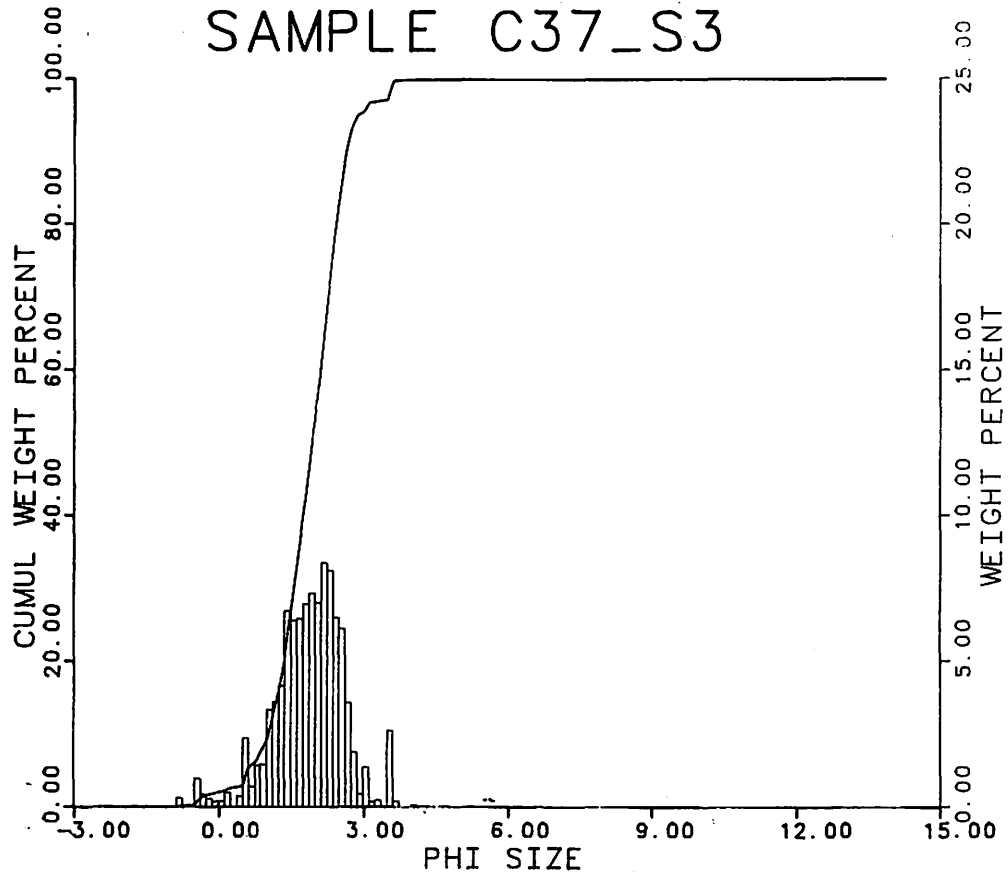
DATE: 7-19-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C37\_S3



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

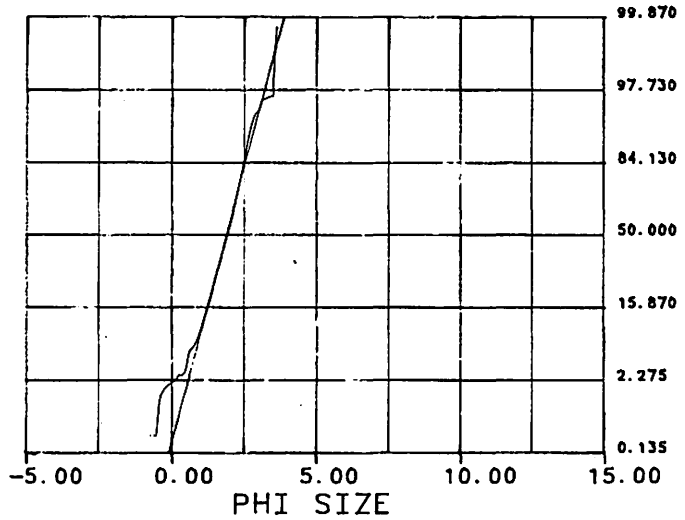
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.6  
 SAND \_\_\_\_\_ 88.3  
 V-COARSE SAND \_\_\_\_\_ 1.8  
 COARSE SAND \_\_\_\_\_ 6.0  
 MEDIUM SAND \_\_\_\_\_ 39.5  
 FINE SAND \_\_\_\_\_ 36.9  
 V-FINE SAND \_\_\_\_\_ 3.9  
 SILT \_\_\_\_\_ 11.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.937  
 MEAN \_\_\_\_\_ 1.901  
 STD. DEVIATION \_\_\_\_\_ 0.656  
 INC. SKEWNESS \_\_\_\_\_ -0.132  
 INC. KURTOSIS \_\_\_\_\_ 0.533

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.882  
 2nd MOMENT \_\_\_\_\_ 0.716  
 3rd MOMENT \_\_\_\_\_ -0.510  
 4th MOMENT \_\_\_\_\_ 4.323

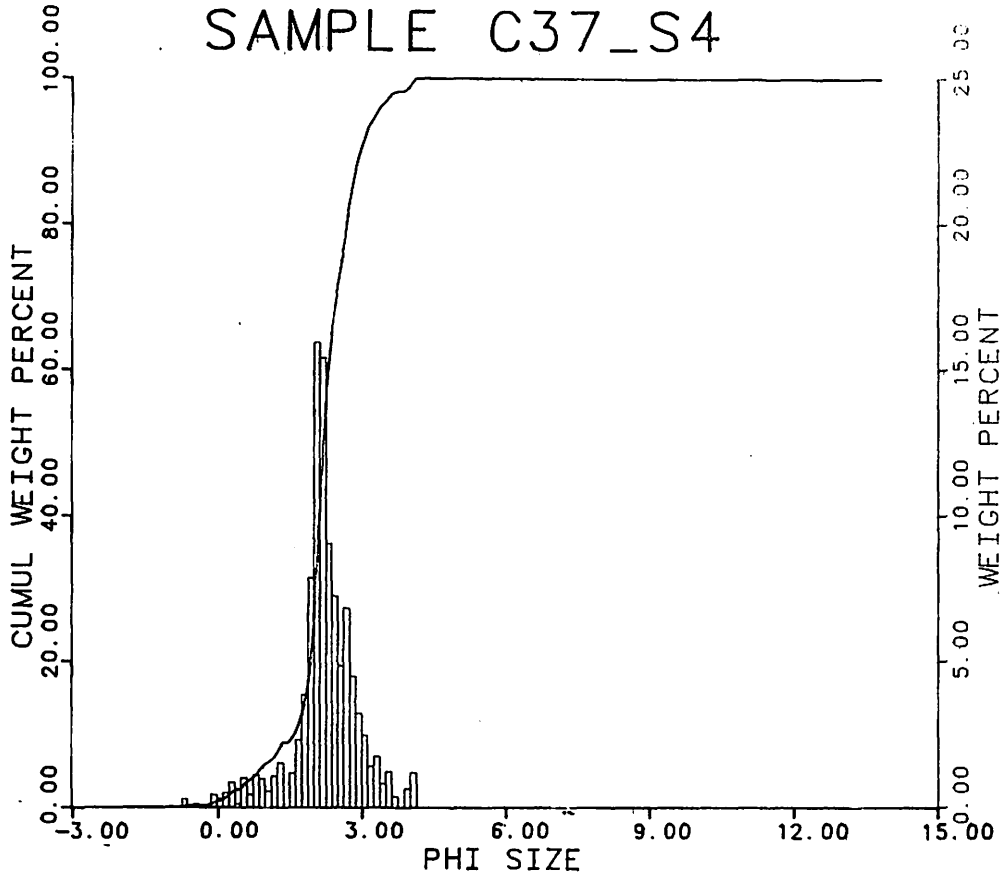
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C37\_S4



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

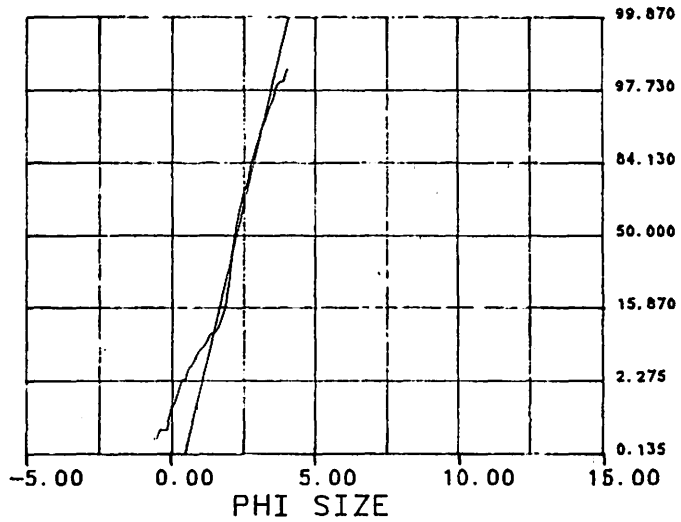
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 82.8  
   V-COARSE SAND - 0.6  
   COARSE SAND - 4.2  
   MEDIUM SAND - 15.1  
   FINE SAND - 55.9  
   V-FINE SAND - 7.0  
 SILT \_\_\_\_\_ 17.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.209  
 MEAN \_\_\_\_\_ 2.289  
 STD. DEVIATION - 0.591  
 INC. SKEWNESS - 0.088  
 INC. KURTOSIS - 0.556

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.237  
 2nd MOMENT \_\_\_\_\_ 0.669  
 3rd MOMENT \_\_\_\_\_ -0.655  
 4th MOMENT \_\_\_\_\_ 5.659

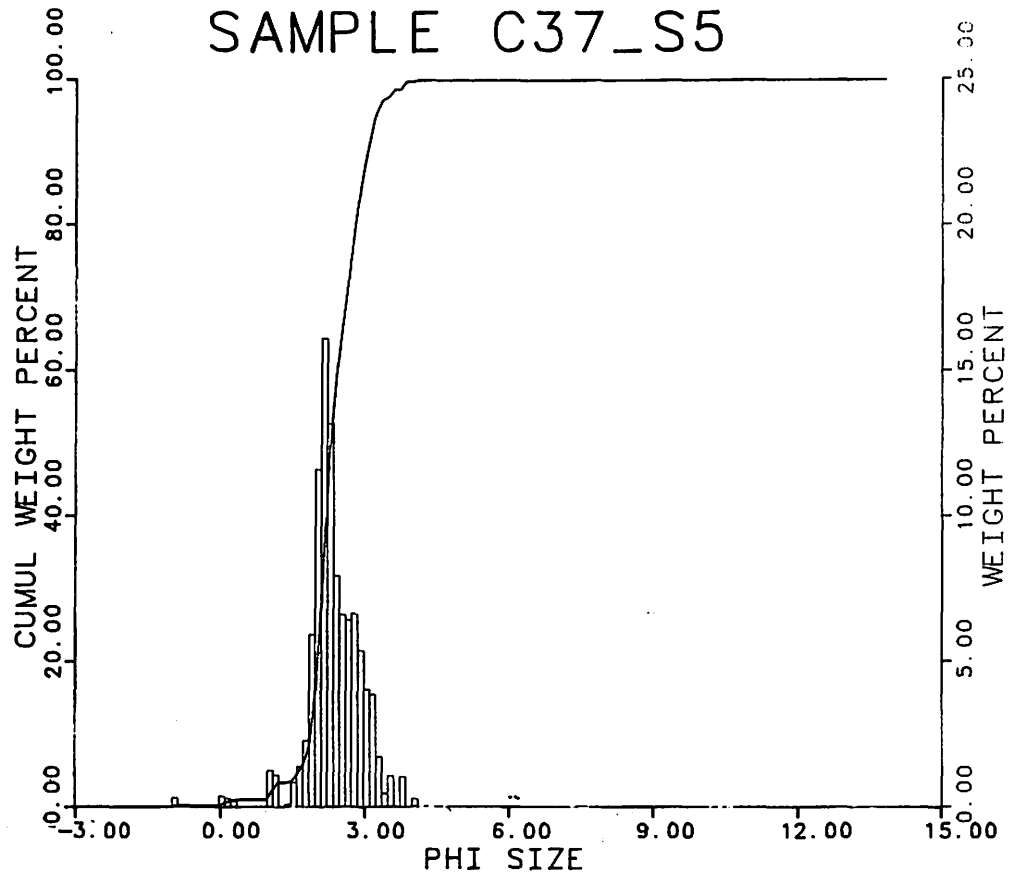
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C37\_S5



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

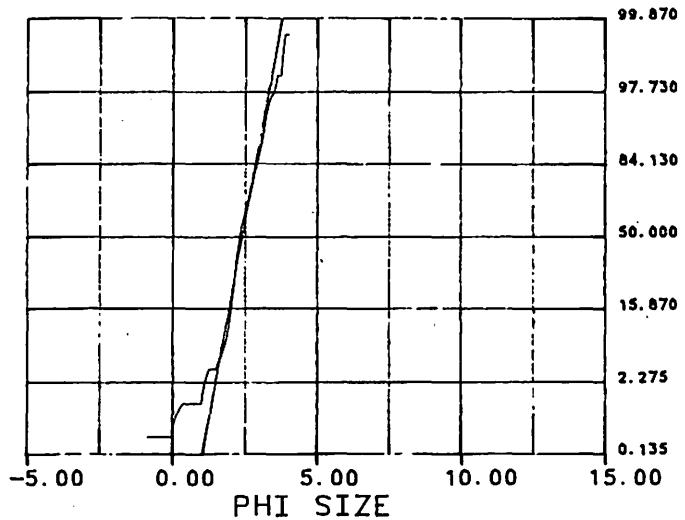
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 84.6  
 V-COARSE SAND - 0.2  
 COARSE SAND \_\_\_\_\_ 0.7  
 MEDIUM SAND \_\_\_\_\_ 10.9  
 FINE SAND \_\_\_\_\_ 62.5  
 V-FINE SAND \_\_\_\_\_ 10.3  
 SILT \_\_\_\_\_ 15.3  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.330  
 MEAN \_\_\_\_\_ 2.423  
 STD. DEVIATION \_\_\_\_\_ 0.458  
 INC. SKEWNESS \_\_\_\_\_ 0.239  
 INC. KURTOSIS \_\_\_\_\_ 0.340

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.397  
 2nd MOMENT \_\_\_\_\_ 0.549  
 3rd MOMENT \_\_\_\_\_ -0.888  
 4th MOMENT \_\_\_\_\_ 8.324

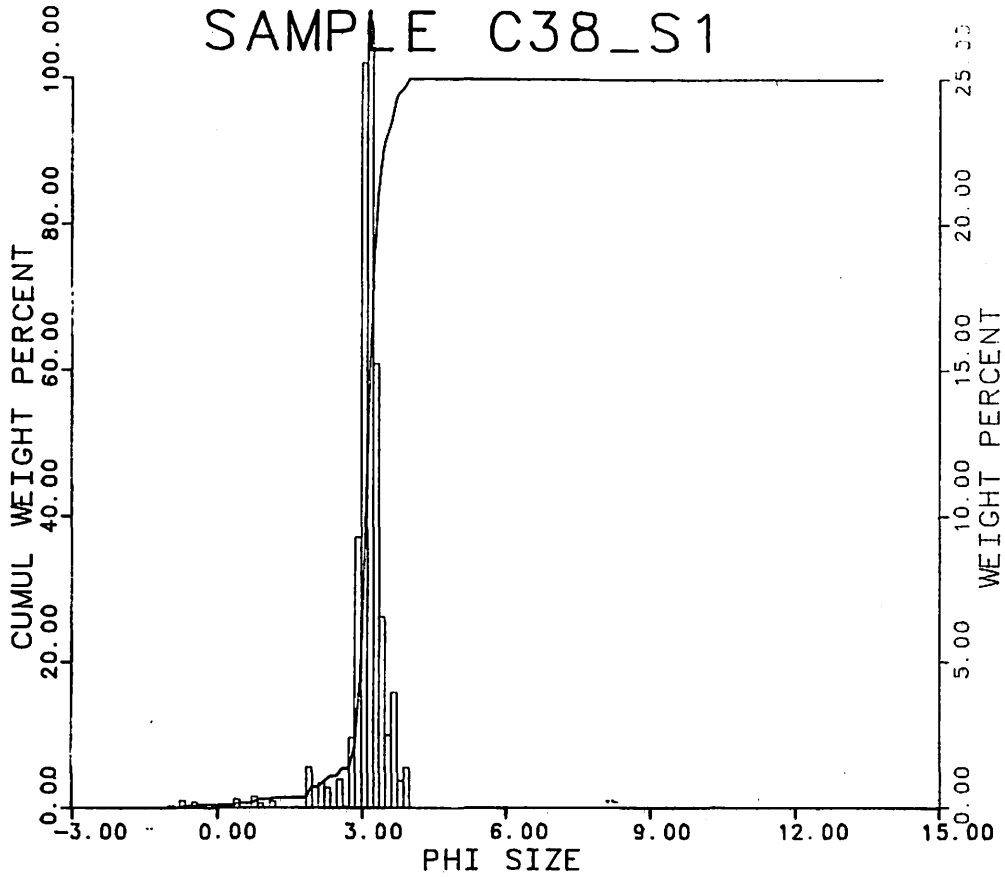
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S1

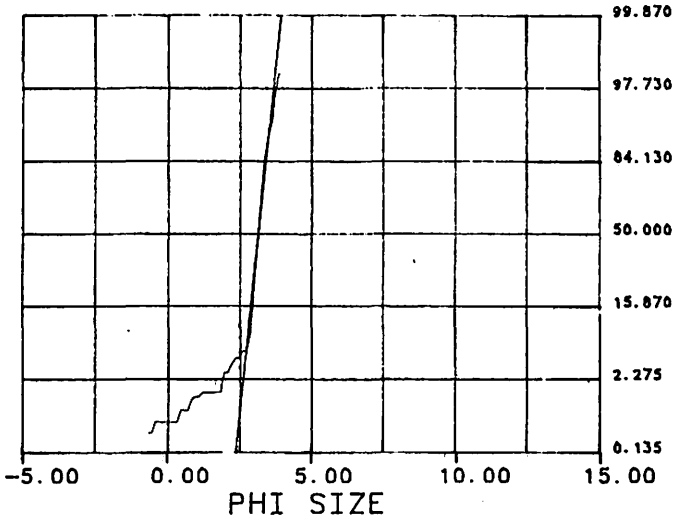


<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.0
SAND	86.1
V-COARSE SAND	0.4
COARSE SAND	0.7
MEDIUM SAND	1.4
FINE SAND	12.2
V-FINE SAND	71.4
SILT	13.9
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	3.123
MEAN	3.171
STD. DEVIATION	0.260
INC. SKEWNESS	0.011
INC. KURTOSIS	0.217

<b>Moment Measures</b>	
1st MOMENT	3.123
2nd MOMENT	0.458
3rd MOMENT	-4.260
4th MOMENT	31.201

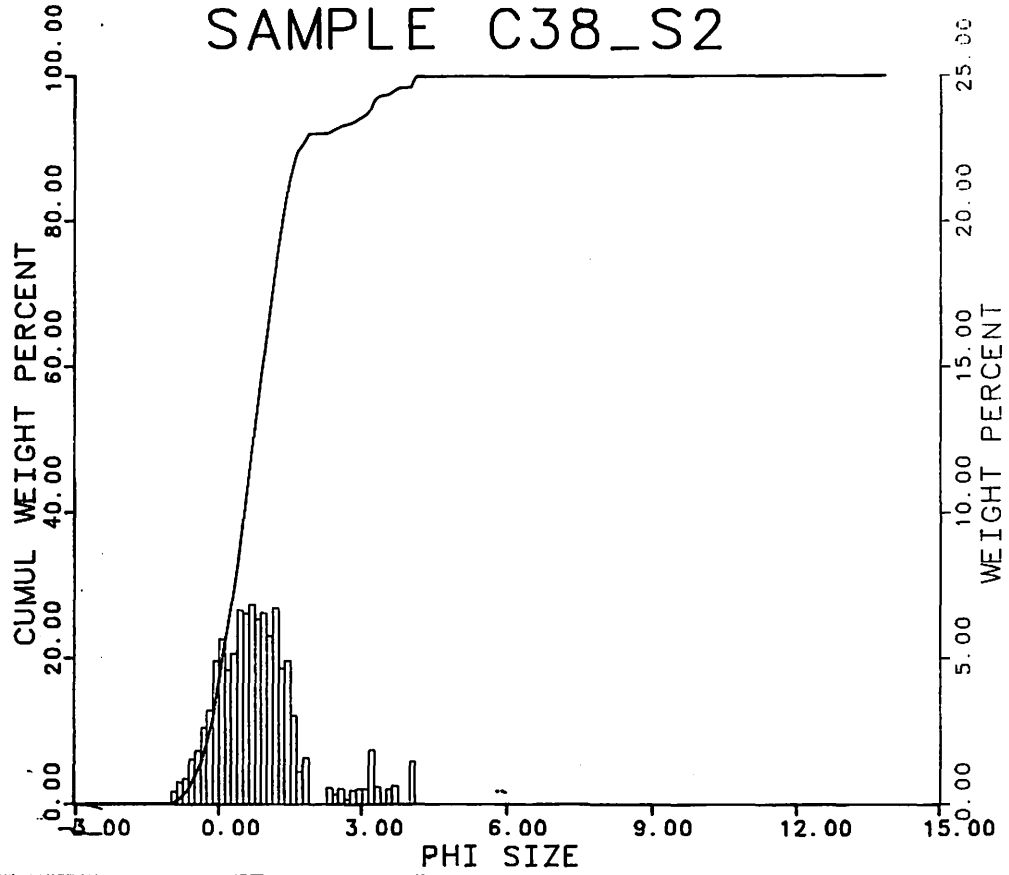
DATE: 7-19-88

## PROBABILITY CURVE



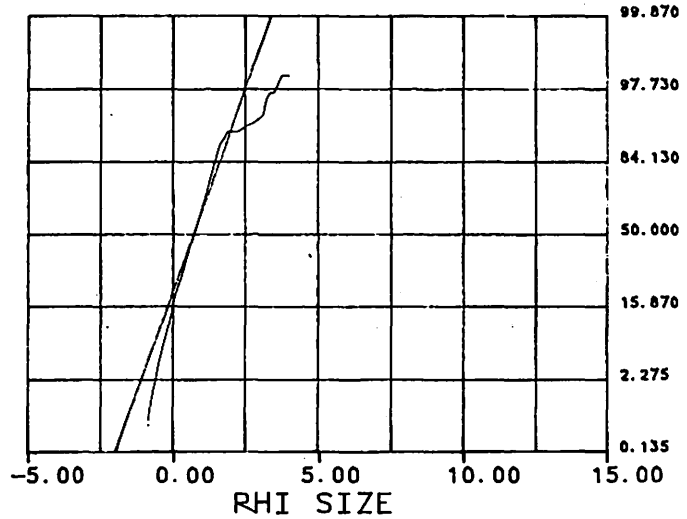
OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S2



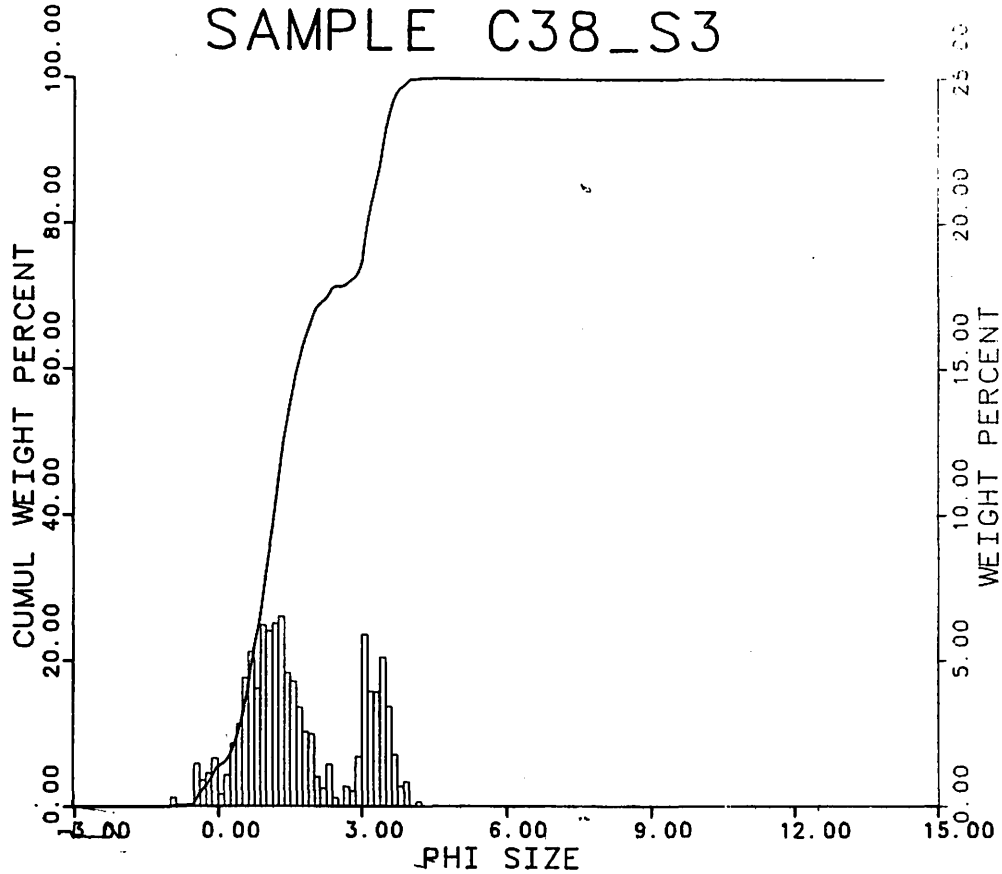
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	24.8
SAND	71.6
V-COARSE SAND	11.7
COARSE SAND	35.0
MEDIUM SAND	20.2
FINE SAND	1.8
V-FINE SAND	2.9
SILT	3.6
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	0.723
MEAN	0.720
STD. DEVIATION	0.894
INC. SKEWNESS	0.178
INC. KURTOSIS	1.279
<b>Moment Measures</b>	
1st MOMENT	0.827
2nd MOMENT	0.929
3rd MOMENT	1.256
4th MOMENT	5.239
DATE:	7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S3



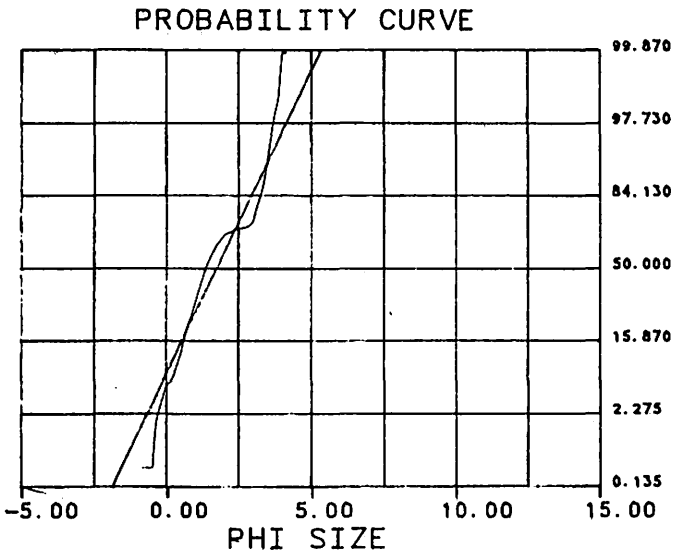
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.6  
 SAND \_\_\_\_\_ 80.3  
 V-COARSE SAND \_\_\_\_\_ 4.4  
 COARSE SAND \_\_\_\_\_ 21.3  
 MEDIUM SAND \_\_\_\_\_ 29.1  
 FINE SAND \_\_\_\_\_ 5.0  
 V-FINE SAND \_\_\_\_\_ 20.6  
 SILT \_\_\_\_\_ 19.1  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.362  
 MEAN \_\_\_\_\_ 1.741  
 STD. DEVIATION \_\_\_\_\_ 1.203  
 INC. SKEWNESS \_\_\_\_\_ 0.329  
 INC. KURTOSIS \_\_\_\_\_ 0.554

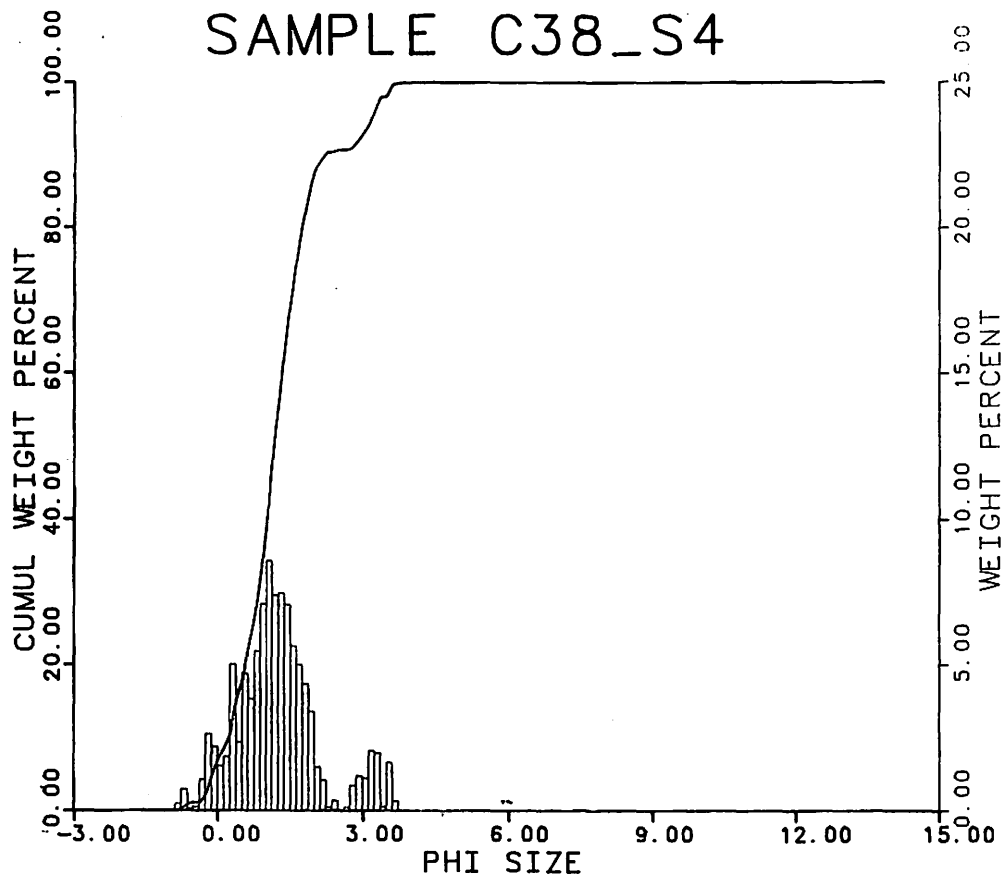
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.689  
 2nd MOMENT \_\_\_\_\_ 1.160  
 3rd MOMENT \_\_\_\_\_ 0.343  
 4th MOMENT \_\_\_\_\_ 2.005

DATE: 7-19-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S4



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

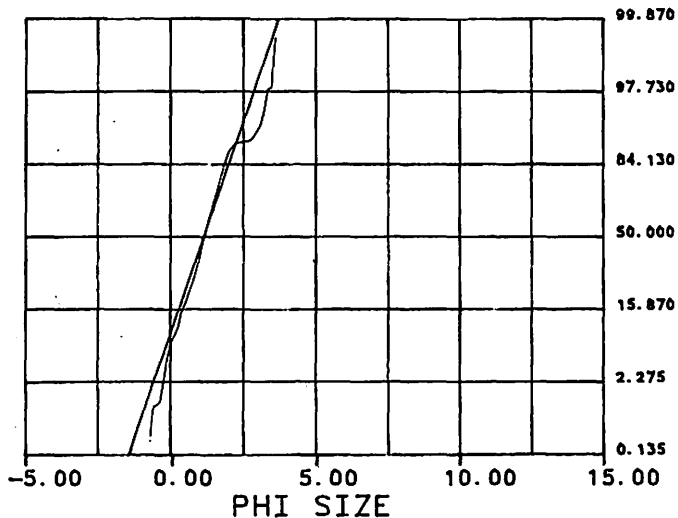
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 1.0  
 SAND \_\_\_\_\_ 90.4  
   V-COARSE SAND - 6.4  
   COARSE SAND - 28.8  
   MEDIUM SAND - 44.1  
   FINE SAND - 4.6  
   V-FINE SAND - 6.5  
 SILT \_\_\_\_\_ 8.6  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.167  
 MEAN \_\_\_\_\_ 1.144  
 STD. DEVIATION \_\_\_\_\_ 0.867  
 INC. SKEWNESS \_\_\_\_\_ 0.088  
 INC. KURTOSIS \_\_\_\_\_ 1.015

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.233  
 2nd MOMENT \_\_\_\_\_ 0.869  
 3rd MOMENT \_\_\_\_\_ 0.666  
 4th MOMENT \_\_\_\_\_ 3.691

DATE: 7-19-88

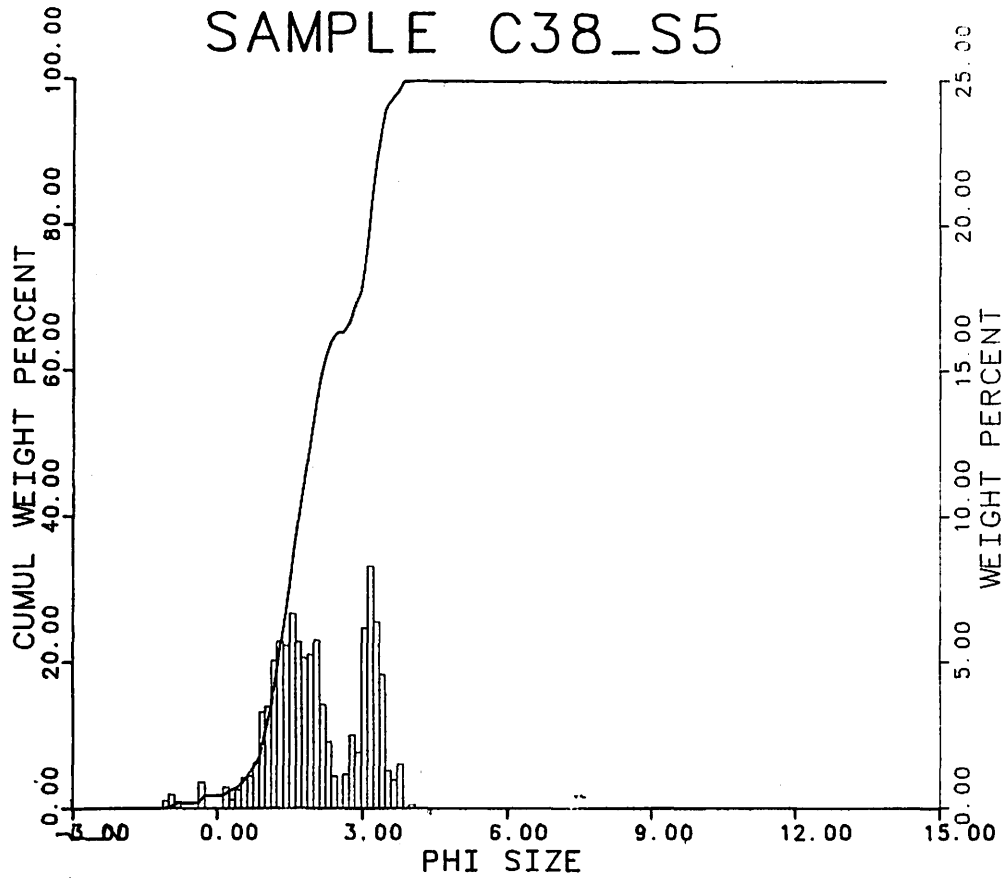
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

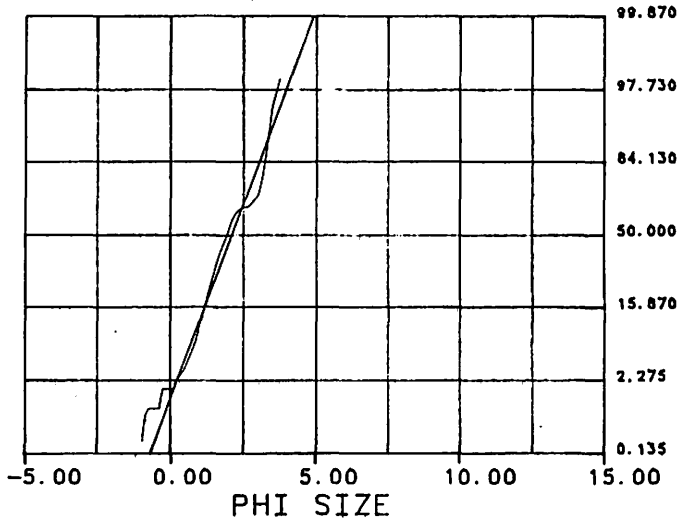


# SAMPLE C38\_S5



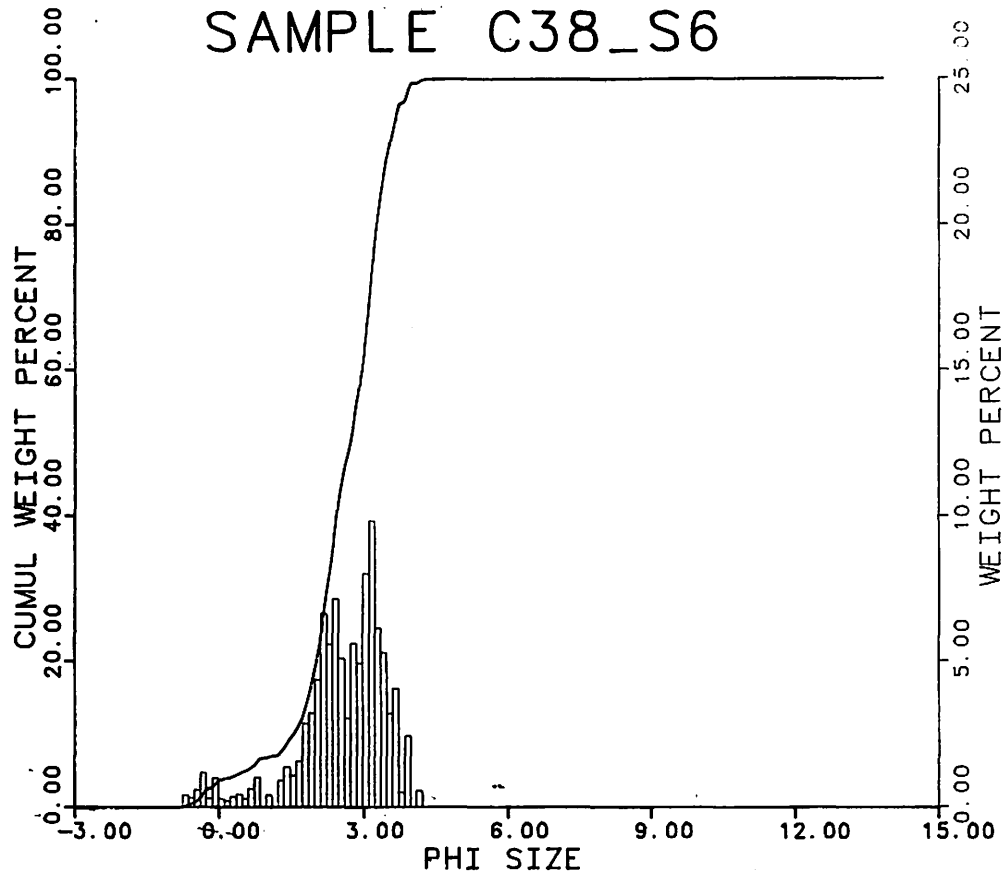
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.3
SAND	88.8
V-COARSE SAND	1.3
COARSE SAND	7.6
MEDIUM SAND	37.8
FINE SAND	16.2
V-FINE SAND	25.9
SILT	10.9
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	1.937
MEAN	2.117
STD. DEVIATION	0.931
INC. SKEWNESS	0.185
INC. KURTOSIS	0.451
<b>Moment Measures</b>	
1st MOMENT	2.089
2nd MOMENT	0.985
3rd MOMENT	-0.161
4th MOMENT	2.581
DATE:	7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S6



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

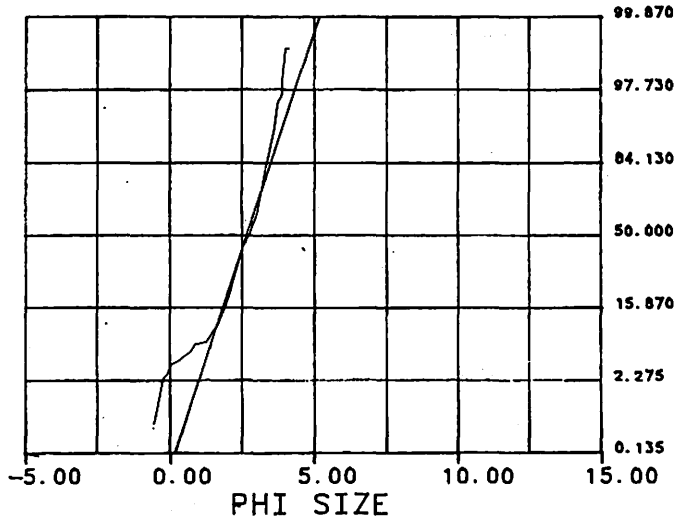
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 1.0  
 SAND \_\_\_\_\_ 73.3  
 V-COARSE SAND \_\_\_\_\_ 2.7  
 COARSE SAND \_\_\_\_\_ 2.3  
 MEDIUM SAND \_\_\_\_\_ 8.3  
 FINE SAND \_\_\_\_\_ 31.1  
 V-FINE SAND \_\_\_\_\_ 28.9  
 SILT \_\_\_\_\_ 25.7  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 2.756  
 MEAN \_\_\_\_\_ 2.683  
 STD. DEVIATION \_\_\_\_\_ 0.833  
 INC. SKEWNESS \_\_\_\_\_ -0.271  
 INC. KURTOSIS \_\_\_\_\_ 0.549

Moment Measures  
 1st MOMENT \_\_\_\_\_ 2.583  
 2nd MOMENT \_\_\_\_\_ 0.913  
 3rd MOMENT \_\_\_\_\_ -1.319  
 4th MOMENT \_\_\_\_\_ 5.147

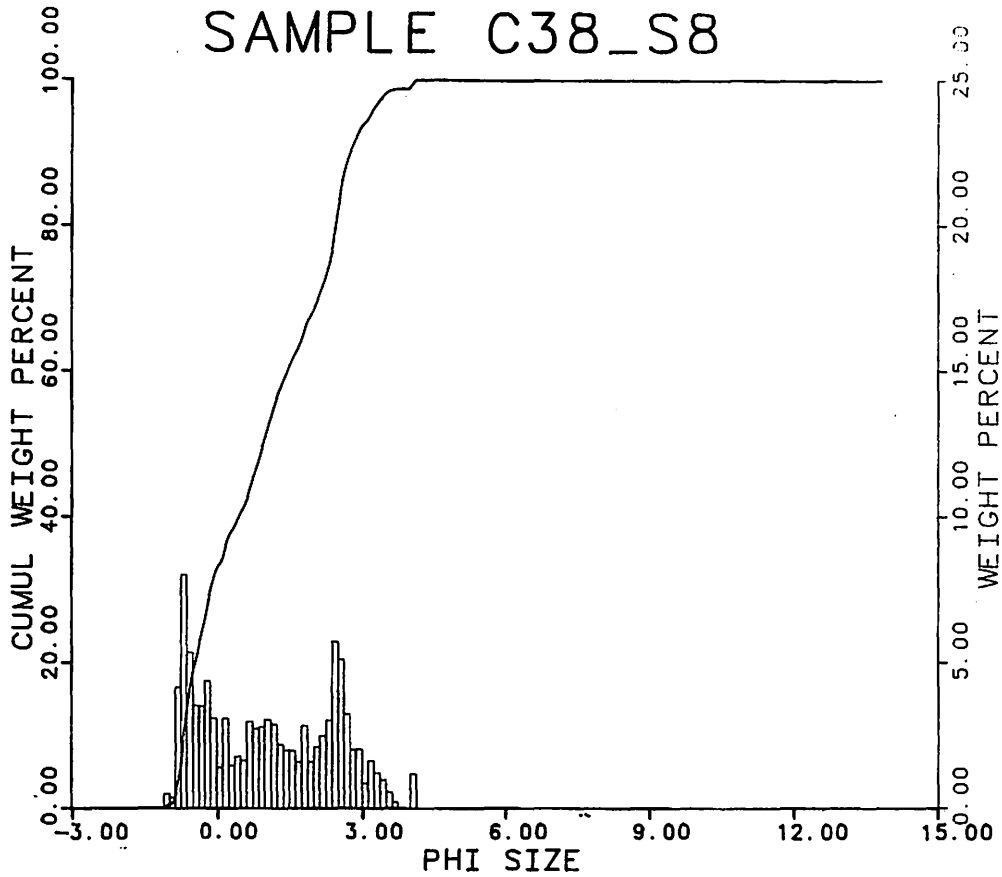
DATE: 7-19-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C38\_S8



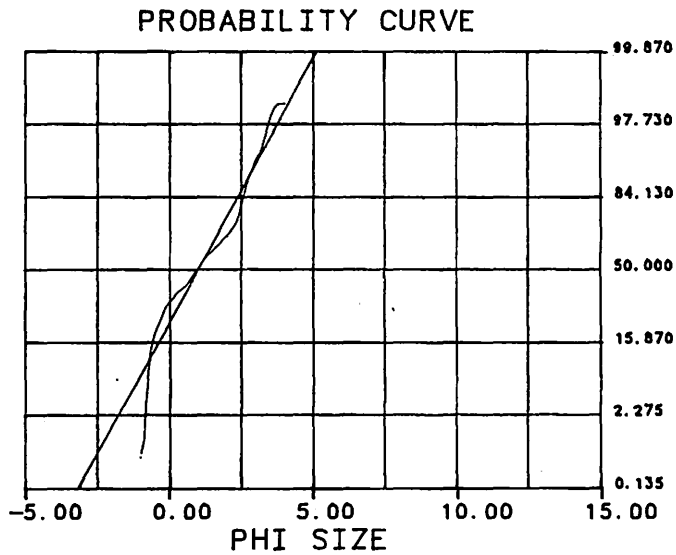
Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 26.8  
 SAND \_\_\_\_\_ 57.2  
 V-COARSE SAND - 18.7  
 COARSE SAND \_\_\_\_\_ 10.3  
 MEDIUM SAND \_\_\_\_\_ 10.4  
 FINE SAND \_\_\_\_\_ 14.8  
 V-FINE SAND \_\_\_\_\_ 3.1  
 SILT \_\_\_\_\_ 16.0  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 0.987  
 MEAN \_\_\_\_\_ 0.999  
 STD. DEVIATION \_\_\_\_\_ 1.374  
 INC. SKEWNESS \_\_\_\_\_ 0.063  
 INC. KURTOSIS \_\_\_\_\_ 0.655

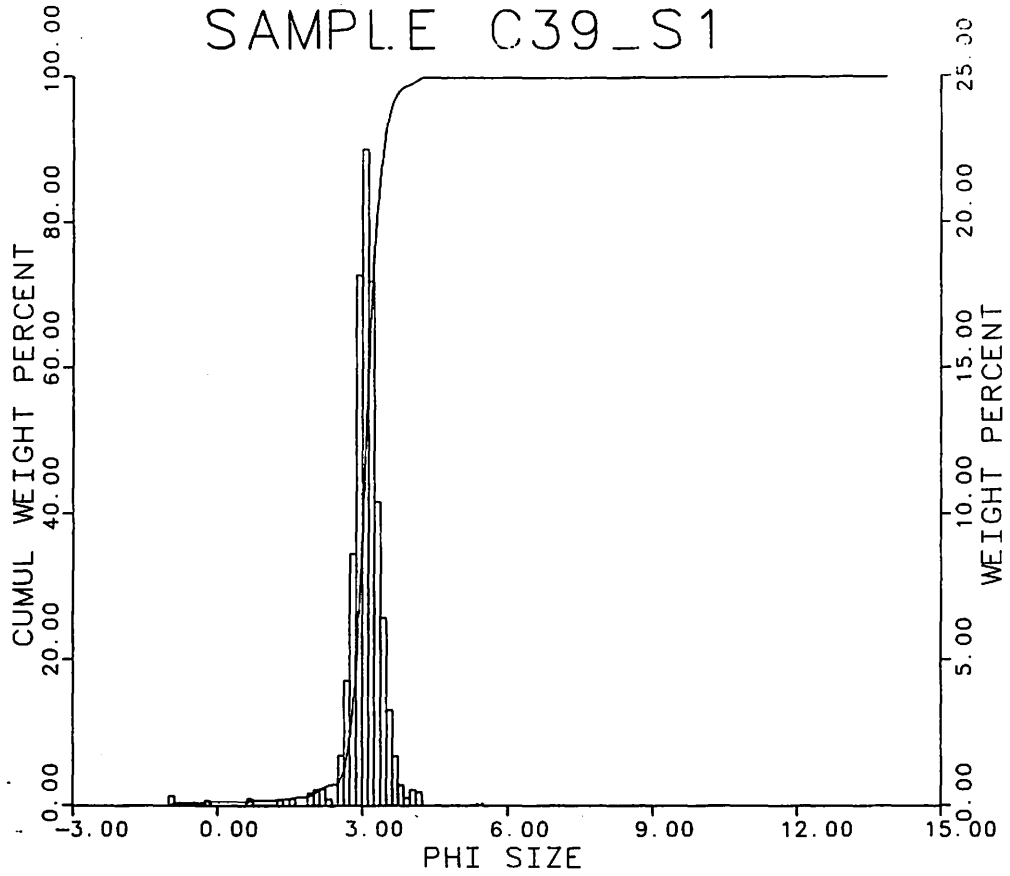
Moment Measures  
 1st MOMENT \_\_\_\_\_ 1.047  
 2nd MOMENT \_\_\_\_\_ 1.351  
 3rd MOMENT \_\_\_\_\_ 0.177  
 4th MOMENT \_\_\_\_\_ 1.758

DATE: 7-19-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C39\_S1



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

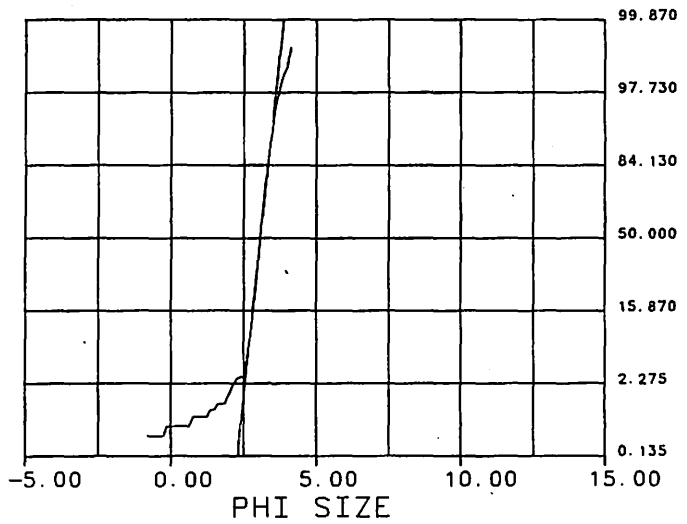
**Gross Parameters (%)**  
 GRAVEL ——— 0.1  
 SAND ——— 91.7  
   V-COARSE SAND — 0.4  
   COARSE SAND — 0.2  
   MEDIUM SAND — 0.8  
   FINE SAND — 31.6  
   V-FINE SAND — 58.6  
 SILT ——— 8.2  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 3.079  
 MEAN ——— 3.092  
 STD. DEVIATION — 0.264  
 INC. SKEWNESS — 0.066  
 INC. KURTOSIS — 0.188

**Moment Measures**  
 1st MOMENT ——— 3.064  
 2nd MOMENT ——— 0.420  
 3rd MOMENT ——— -4.050  
 4th MOMENT ——— 36.563

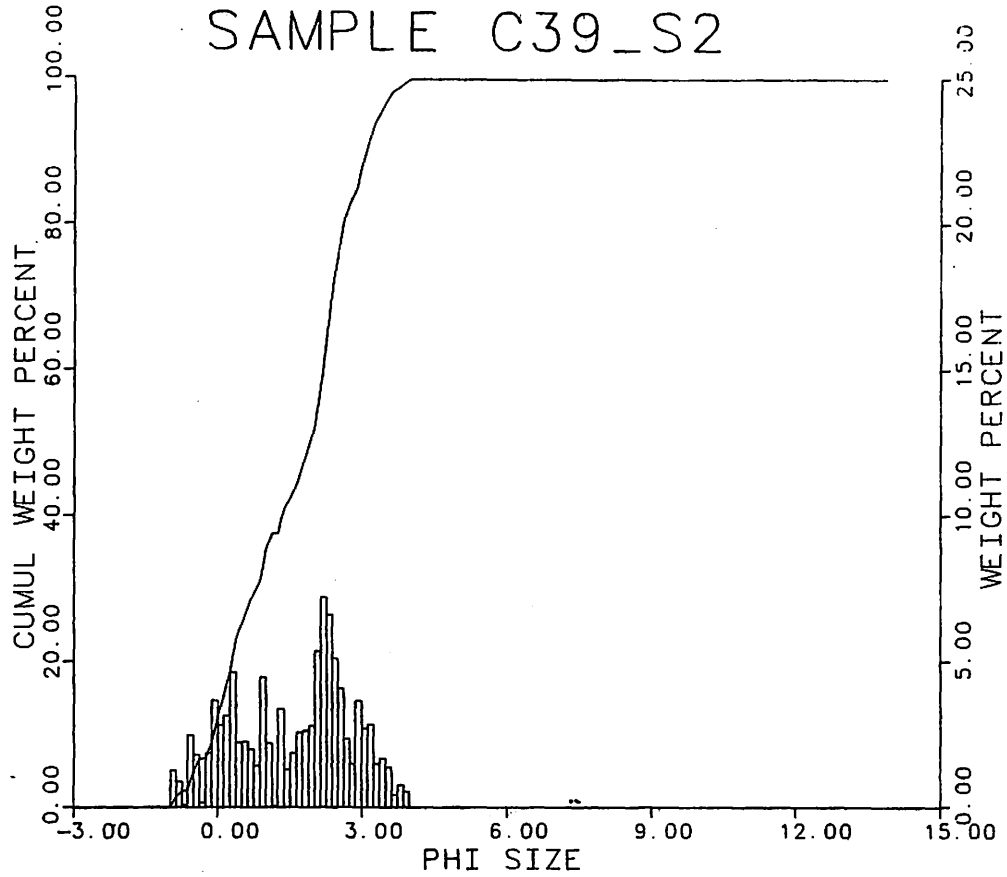
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C39\_S2



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

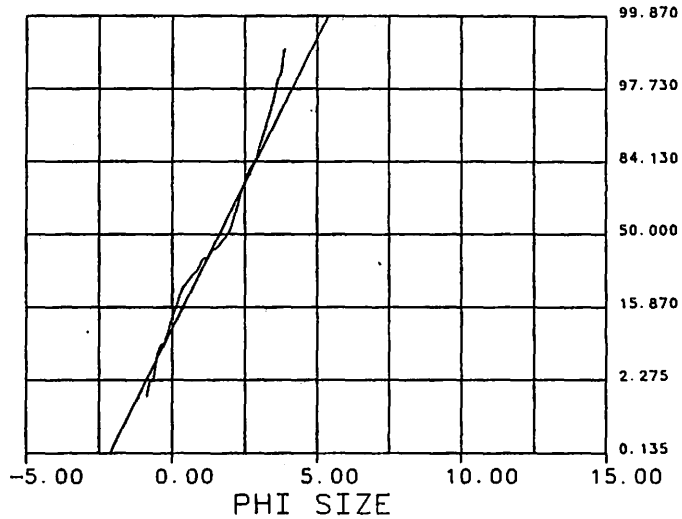
**Gross Parameters (%)**  
 GRAVEL ——— 4.1  
 SAND ——— 92.6  
   V-COARSE SAND — 11.4  
   COARSE SAND ——— 21.3  
   MEDIUM SAND ——— 15.6  
   FINE SAND ——— 33.3  
   V-FINE SAND ——— 11.0  
 SILT ——— 3.3  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.901  
 MEAN ——— 1.631  
 STD. DEVIATION — 1.250  
 INC. SKEWNESS — -0.272  
 INC. KURTOSIS — 0.696

**Moment Measures**  
 1st MOMENT ——— 1.587  
 2nd MOMENT ——— 1.203  
 3rd MOMENT ——— -0.256  
 4th MOMENT ——— 2.014

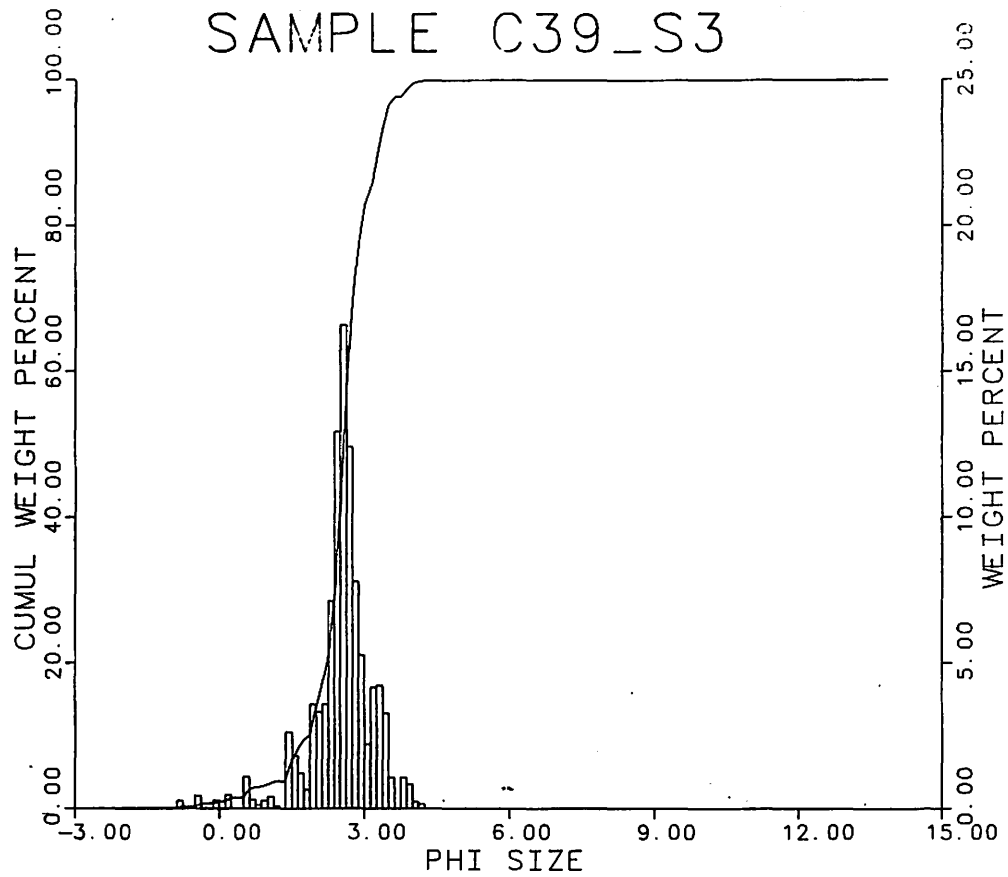
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C39\_S3



**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

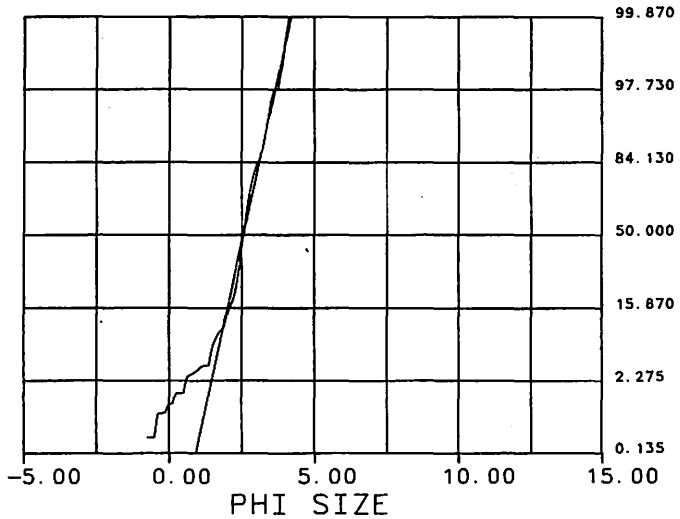
**Gross Parameters (%)**  
 GRAVEL ----- 2.0  
 SAND ----- 88.6  
   V-COARSE SAND - 0.9  
   COARSE SAND --- 2.0  
   MEDIUM SAND --- 9.2  
   FINE SAND ----- 61.5  
   V-FINE SAND --- 15.0  
 SILT ----- 9.4  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 2.570  
 MEAN ----- 2.575  
 STD. DEVIATION- 0.548  
 INC. SKEWNESS-- -0.060  
 INC. KURTOSIS-- 0.436

**Moment Measures**  
 1st MOMENT ----- 2.523  
 2nd MOMENT ----- 0.655  
 3rd MOMENT ----- -1.405  
 4th MOMENT ----- 7.728

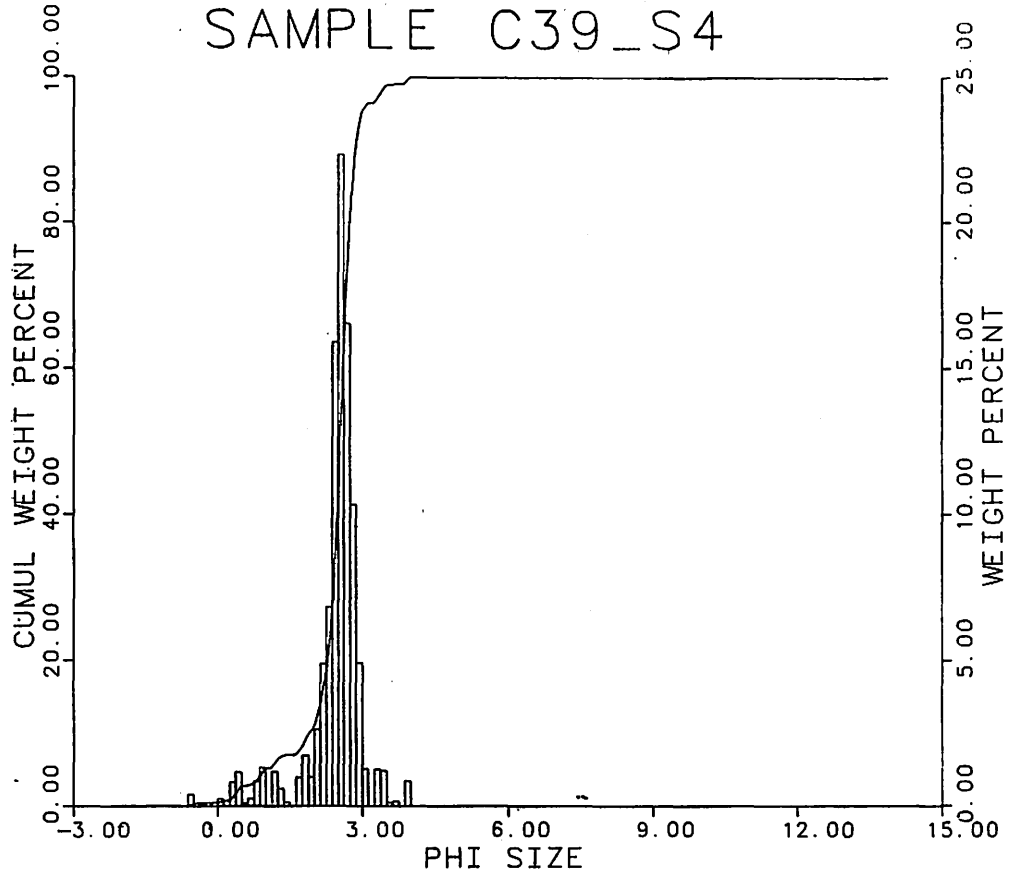
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C39\_S4



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

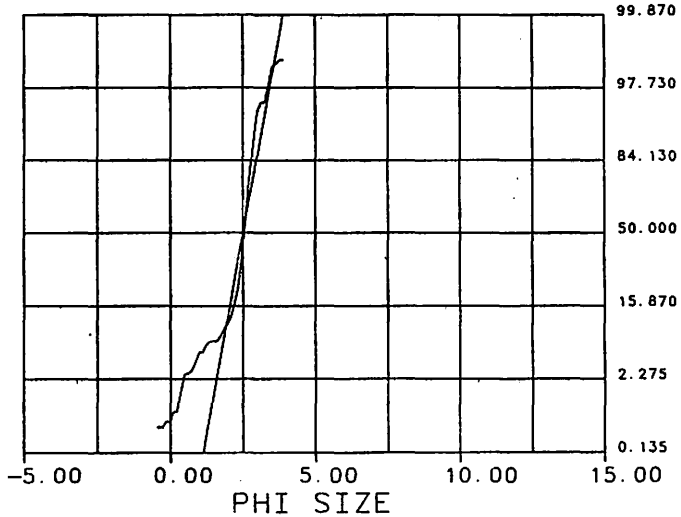
**Gross Parameters (%)**  
 GRAVEL ——— 1.9  
 SAND ——— 88.3  
   V-COARSE SAND — 0.4  
   COARSE SAND — 4.2  
   MEDIUM SAND — 4.9  
   FINE SAND — 74.5  
   V-FINE SAND — 4.3  
 SILT ——— 9.8  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 2.550  
 MEAN ——— 2.513  
 STD. DEVIATION — 0.458  
 INC. SKEWNESS — -0.370  
 INC. KURTOSIS — 0.475

**Moment Measures**  
 1st MOMENT ——— 2.440  
 2nd MOMENT ——— 0.584  
 3rd MOMENT ——— -2.027  
 4th MOMENT ——— 9.287

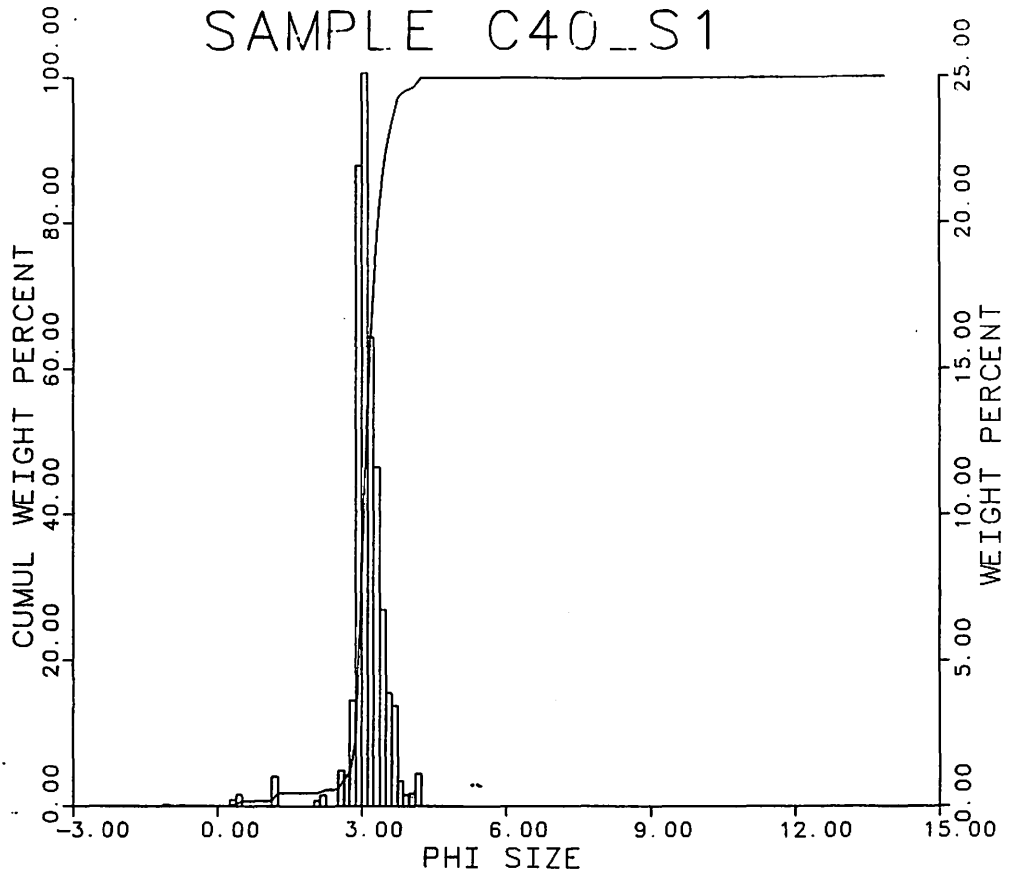
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C40\_S1



**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

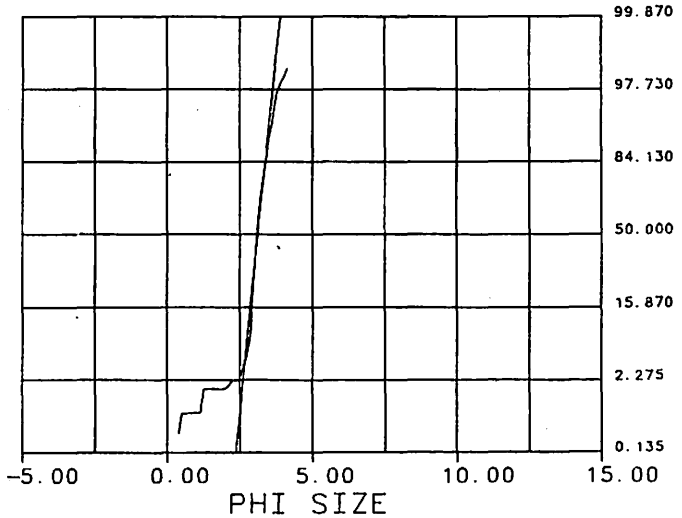
**Gross Parameters (%)**  
 GRAVEL ----- 0.1  
 SAND ----- 91.5  
 V-COARSE SAND - 0.0  
 COARSE SAND --- 0.6  
 MEDIUM SAND --- 0.9  
 FINE SAND ----- 26.5  
 V-FINE SAND --- 63.5  
 SILT ----- 8.4  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 3.098  
 MEAN ----- 3.136  
 STD. DEVIATION- 0.255  
 INC. SKEWNESS- 0.253  
 INC. KURTOSIS-- 0.179

**Moment Measures**  
 1st MOMENT ----- 3.114  
 2nd MOMENT ----- 0.418  
 3rd MOMENT ----- -3.155  
 4th MOMENT ----- 24.700

DATE: 4-25-88

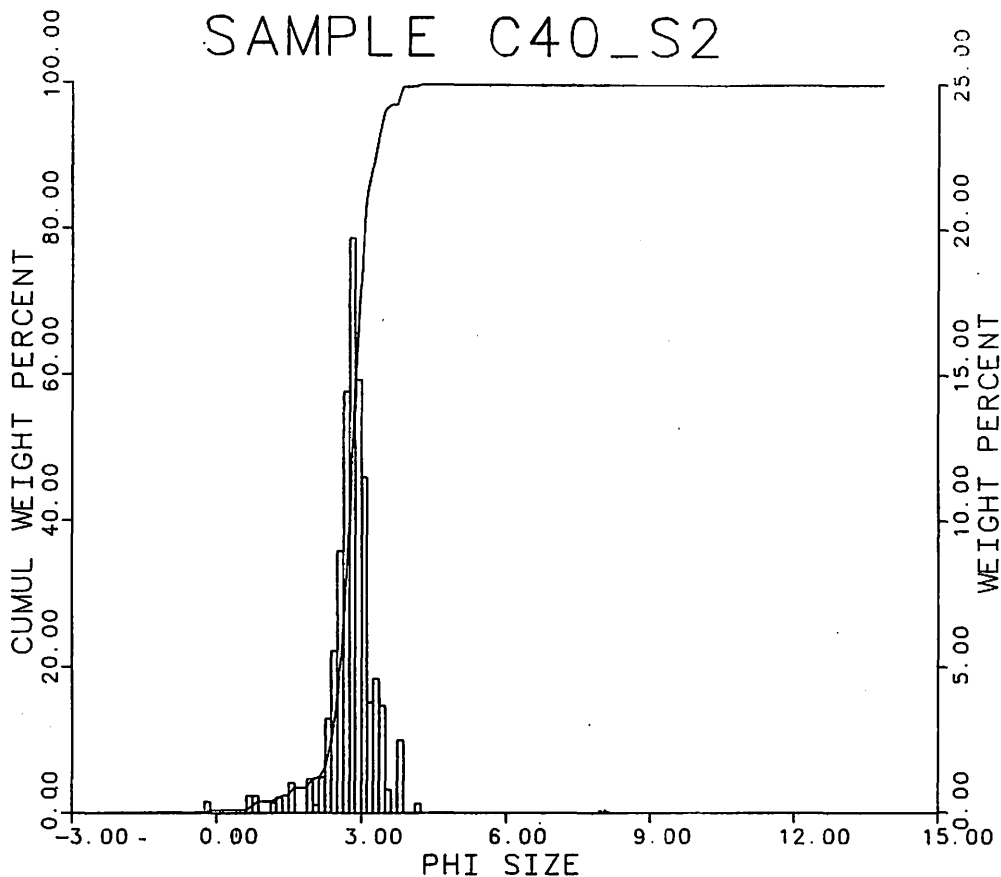
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std Dev



# SAMPLE C40\_S2



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

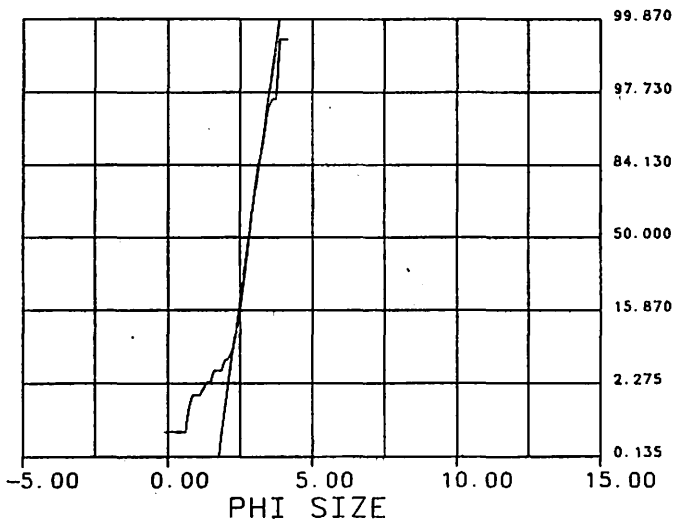
Gross Parameters (%)  
 GRAVEL ——— 0.8  
 SAND ——— 84.0  
 V-COARSE SAND — 0.3  
 COARSE SAND — 1.0  
 MEDIUM SAND — 2.6  
 FINE SAND — 57.5  
 V-FINE SAND — 22.7  
 SILT ——— 15.2  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 2.825  
 MEAN ——— 2.821  
 STD. DEVIATION — 0.350  
 INC. SKEWNESS — -0.030  
 INC. KURTOSIS — 0.277

Moment Measures  
 1st MOMENT ——— 2.797  
 2nd MOMENT ——— 0.485  
 3rd MOMENT ——— -1.858  
 4th MOMENT ——— 11.690

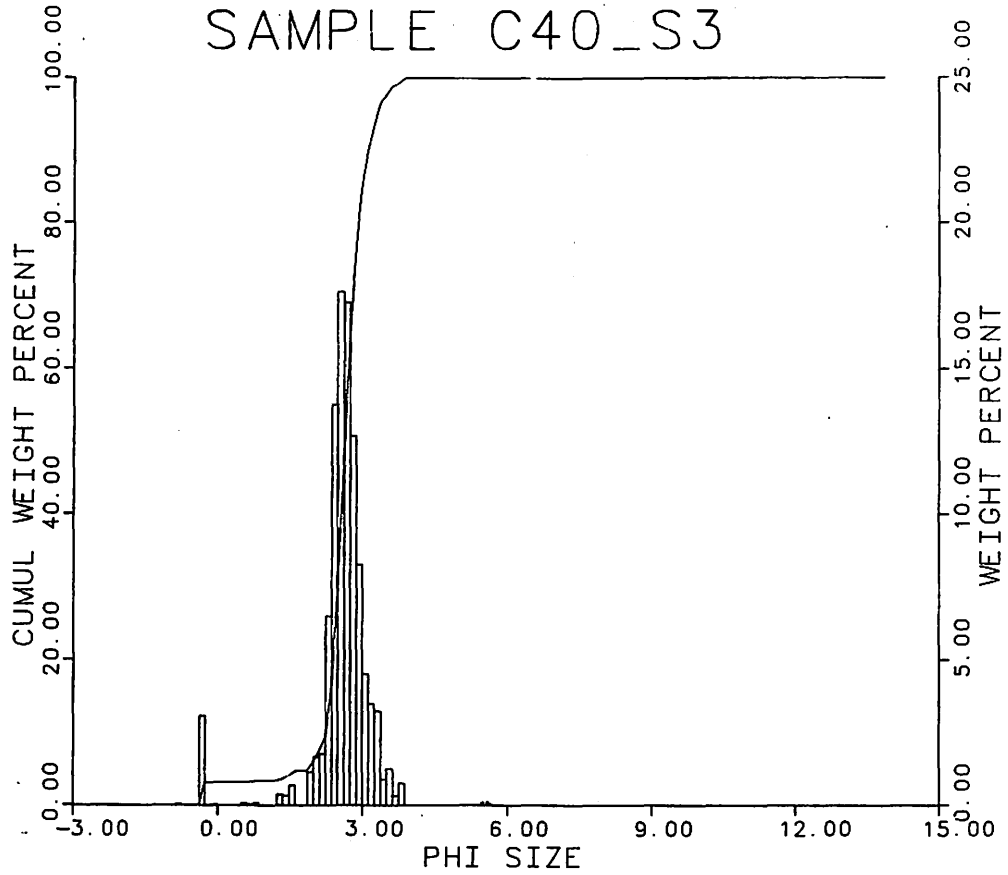
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C40\_S3



**Sample Location**  
 LATITUDE----- 0-0-0  
 LONGITUDE----- 0-0-0  
 DEPTH (m)----- 0.00

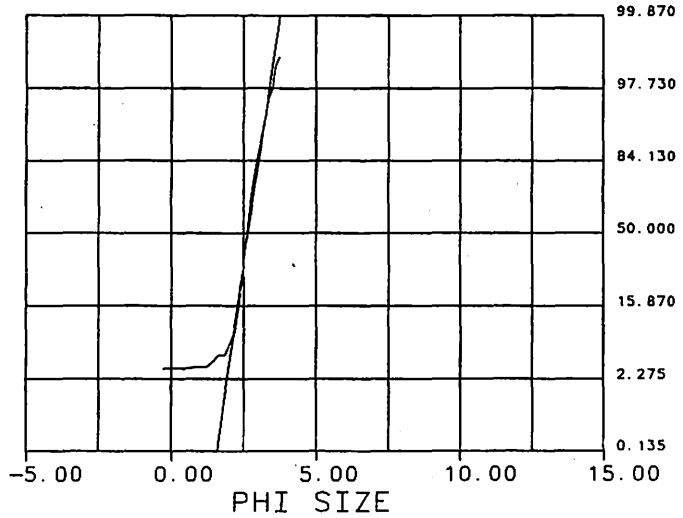
**Gross Parameters (%)**  
 GRAVEL----- 0.1  
 SAND----- 89.0  
 V-COARSE SAND - 2.8  
 COARSE SAND----- 0.2  
 MEDIUM SAND----- 2.2  
 FINE SAND----- 70.9  
 V-FINE SAND----- 12.9  
 SILT----- 10.9  
 CLAY----- 0.0

**Graphic Measures**  
 MEDIAN----- 2.645  
 MEAN----- 2.666  
 STD. DEVIATION----- 0.362  
 INC. SKEWNESS----- 0.025  
 INC. KURTOSIS----- 0.311

**Moment Measures**  
 1st MOMENT----- 2.583  
 2nd MOMENT----- 0.637  
 3rd MOMENT----- -2.927  
 4th MOMENT----- 14.482

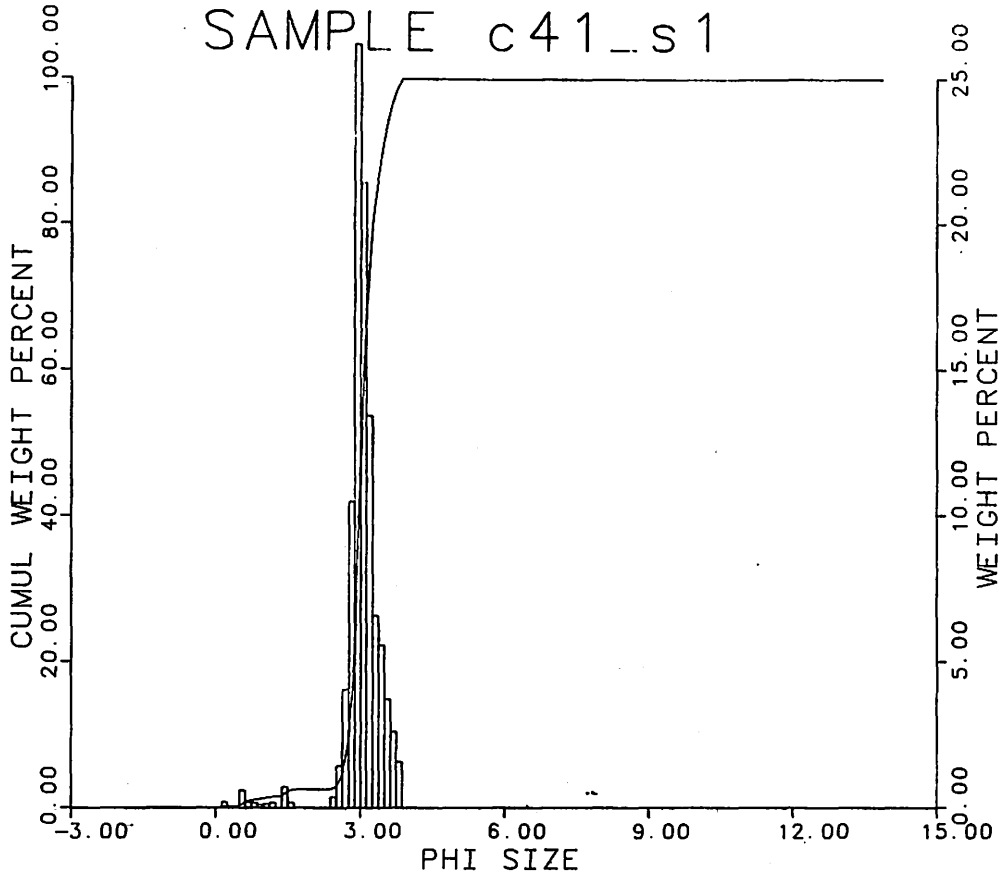
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE c41\_s1



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

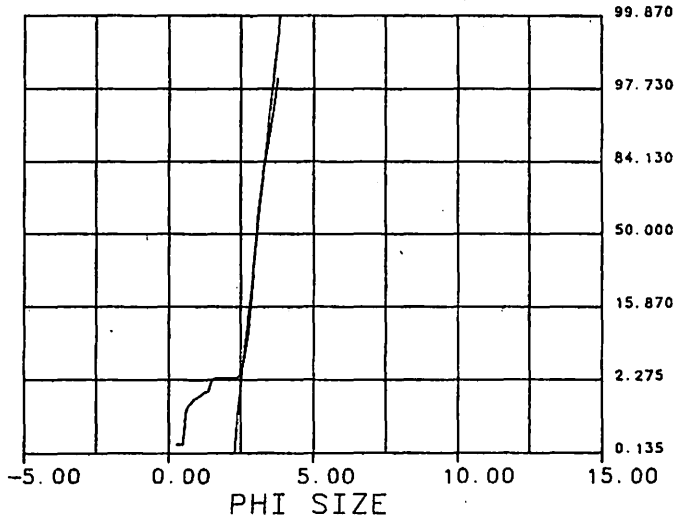
Gross Parameters (%)  
 GRAVEL ——— 0.6  
 SAND ——— 90.9  
 V-COARSE SAND — 0.0  
 COARSE SAND — 1.1  
 MEDIUM SAND — 1.1  
 FINE SAND — 38.7  
 V-FINE SAND — 50.0  
 SILT ——— 8.5  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 3.029  
 MEAN ——— 3.066  
 STD. DEVIATION— 0.266  
 INC. SKEWNESS— 0.213  
 INC. KURTOSIS— 0.194

Moment Measures  
 1st MOMENT ——— 3.028  
 2nd MOMENT ——— 0.419  
 3rd MOMENT ——— -3.021  
 4th MOMENT ——— 18.880

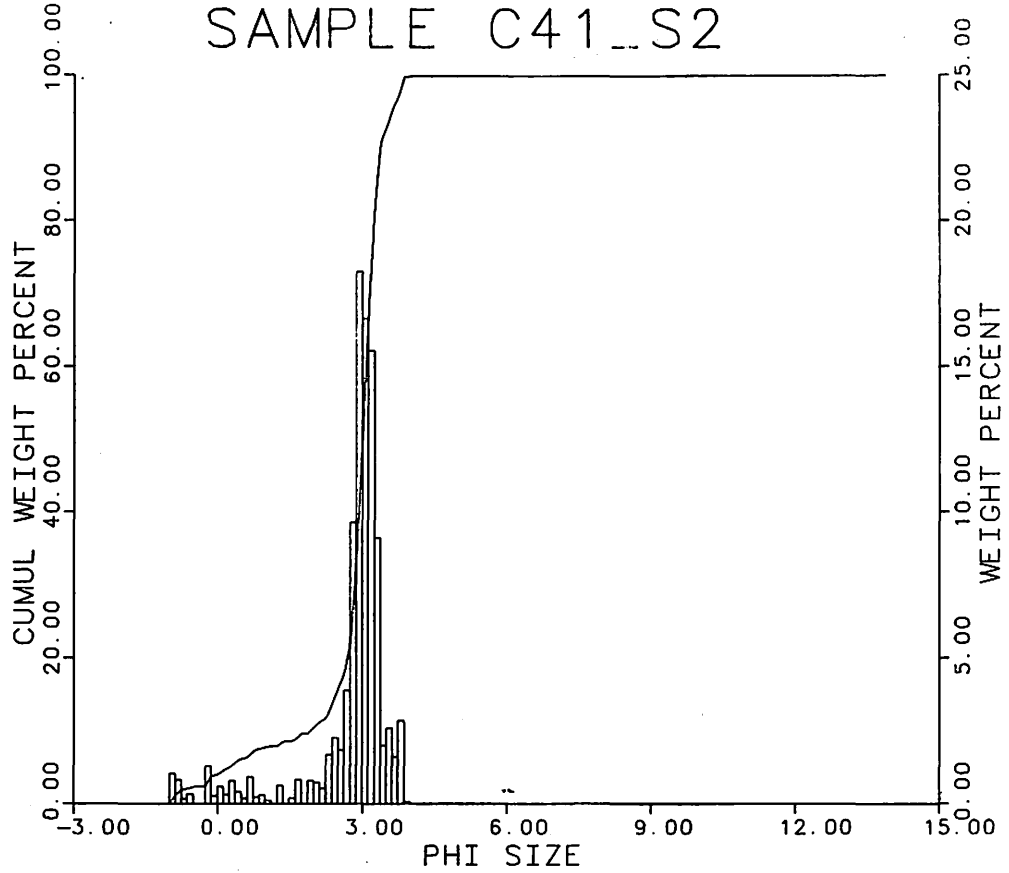
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C41\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

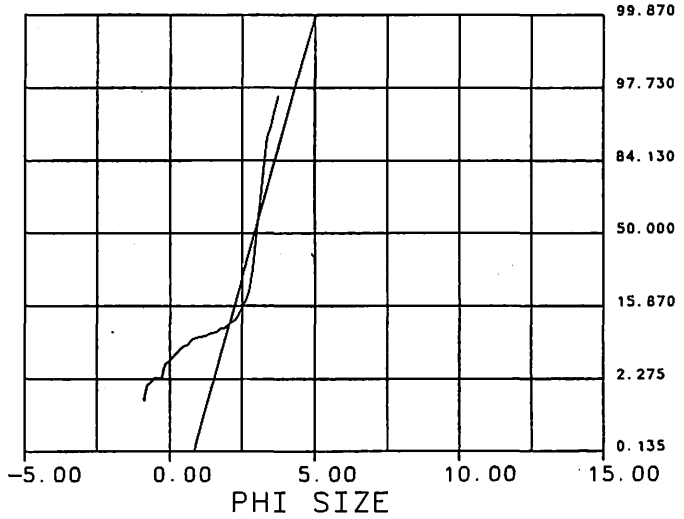
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 1.6  
 SAND \_\_\_\_\_ 80.7  
 V-COARSE SAND - 3.2  
 COARSE SAND \_\_\_\_\_ 3.1  
 MEDIUM SAND \_\_\_\_\_ 2.1  
 FINE SAND \_\_\_\_\_ 31.4  
 V-FINE SAND \_\_\_\_\_ 40.8  
 SILT \_\_\_\_\_ 17.7  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.005  
 MEAN \_\_\_\_\_ 2.935  
 STD. DEVIATION \_\_\_\_\_ 0.698  
 INC. SKEWNESS \_\_\_\_\_ -0.457  
 INC. KURTOSIS \_\_\_\_\_ 0.669

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.766  
 2nd MOMENT \_\_\_\_\_ 0.922  
 3rd MOMENT \_\_\_\_\_ -2.505  
 4th MOMENT \_\_\_\_\_ 9.030

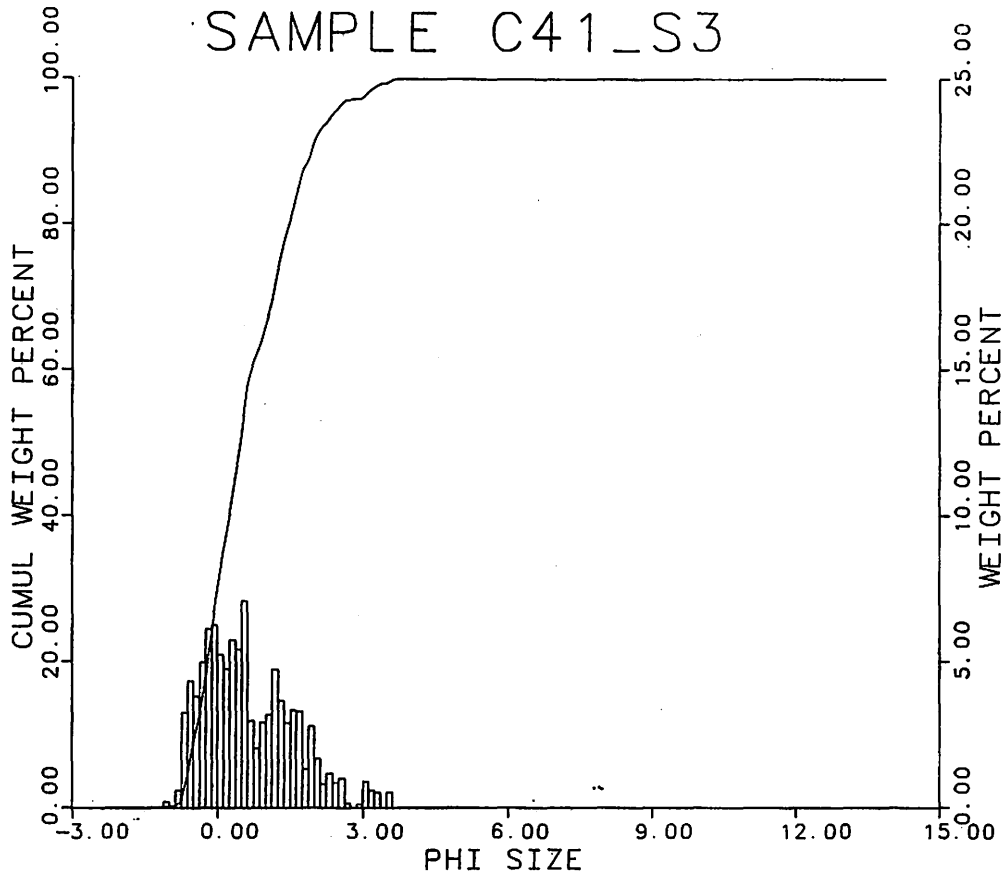
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C41\_S3



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

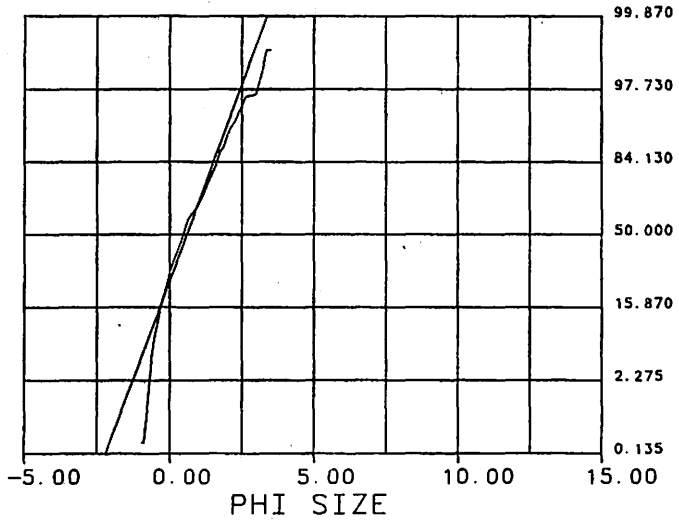
**Gross Parameters (%)**  
 GRAVEL ——— 27.2  
 SAND ——— 70.7  
   V-COARSE SAND — 20.9  
   COARSE SAND — 25.7  
   MEDIUM SAND — 18.0  
   FINE SAND — 4.2  
   V-FINE SAND — 1.9  
 SILT ——— 2.1  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 0.479  
 MEAN ——— 0.608  
 STD. DEVIATION — 0.925  
 INC. SKEWNESS — 0.236  
 INC. KURTOSIS — 0.915

**Moment Measures**  
 1st MOMENT ——— 0.648  
 2nd MOMENT ——— 0.936  
 3rd MOMENT ——— 0.708  
 4th MOMENT ——— 3.025

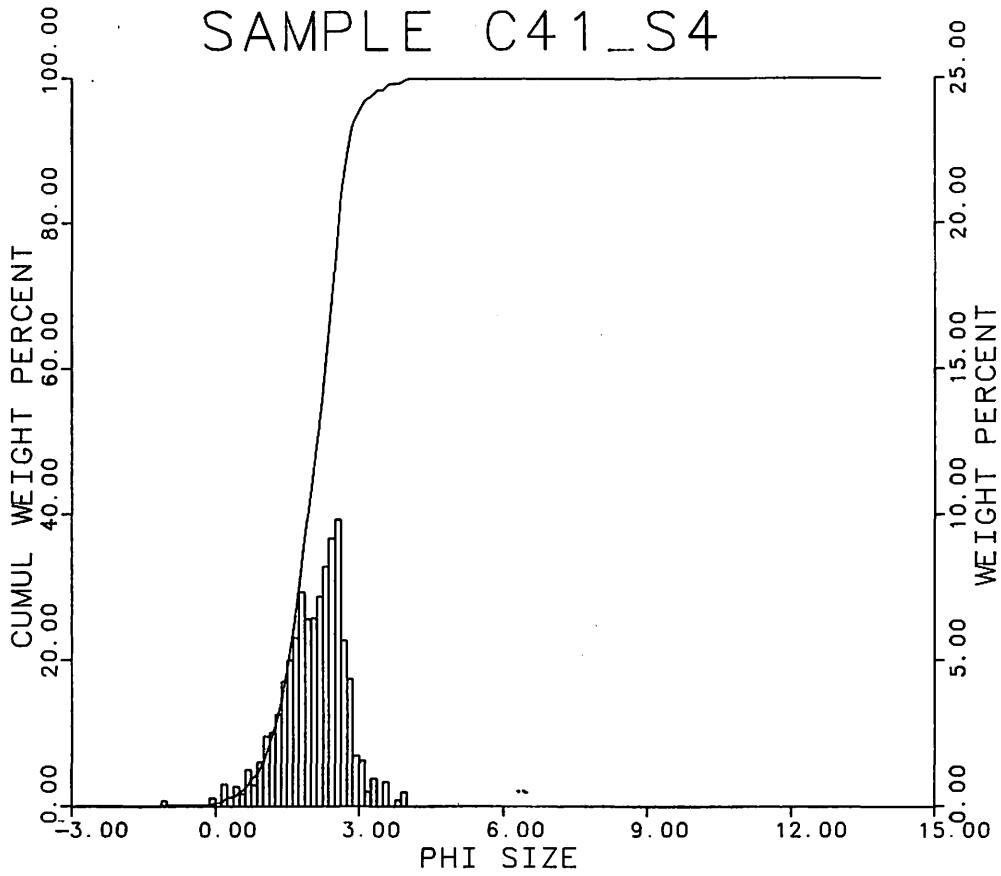
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C41\_S4



**Sample Location**

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

**Gross Parameters (%)**

GRAVEL ——— 0.0  
 SAND ——— 96.6  
   V-COARSE SAND — 0.3  
   COARSE SAND — 5.2  
   MEDIUM SAND — 35.7  
   FINE SAND — 50.9  
   V-FINE SAND — 4.4  
 SILT ——— 3.4  
 CLAY ——— 0.0

**Graphic Measures**

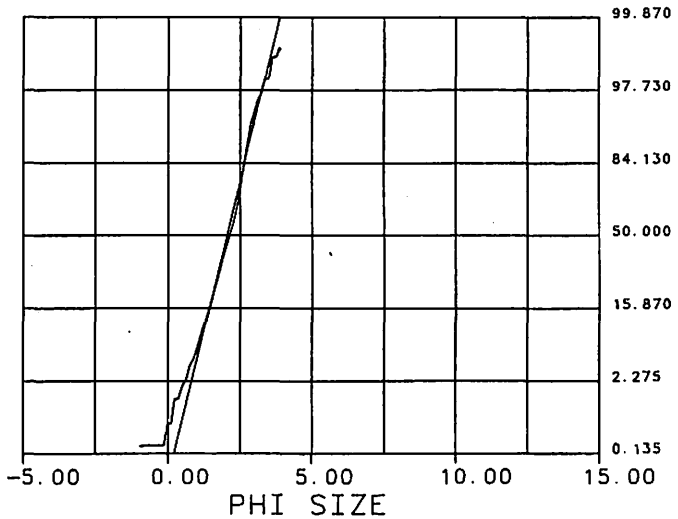
MEDIAN ——— 2.138  
 MEAN ——— 2.068  
 STD. DEVIATION — 0.609  
 INC. SKEWNESS — -0.181  
 INC. KURTOSIS — 0.456

**Moment Measures**

1st MOMENT ——— 2.060  
 2nd MOMENT ——— 0.655  
 3rd MOMENT ——— -0.523  
 4th MOMENT ——— 4.154

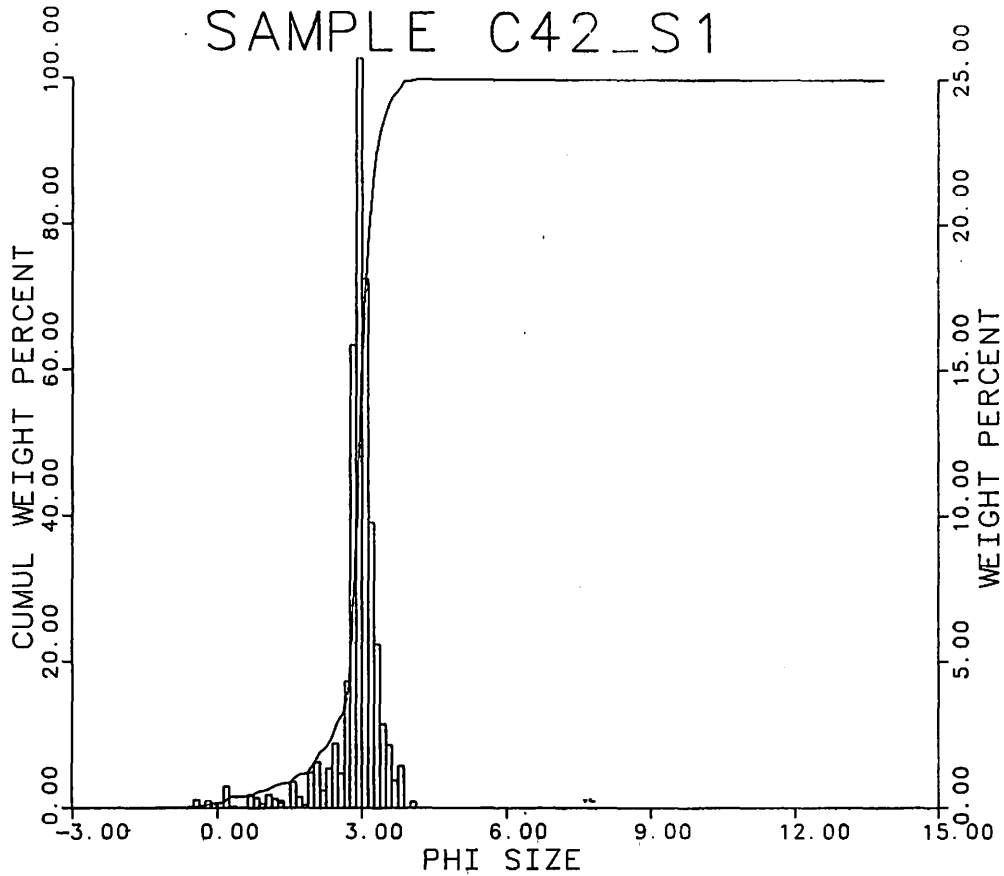
DATE: 4-6-88

## PROBABILITY CURVE



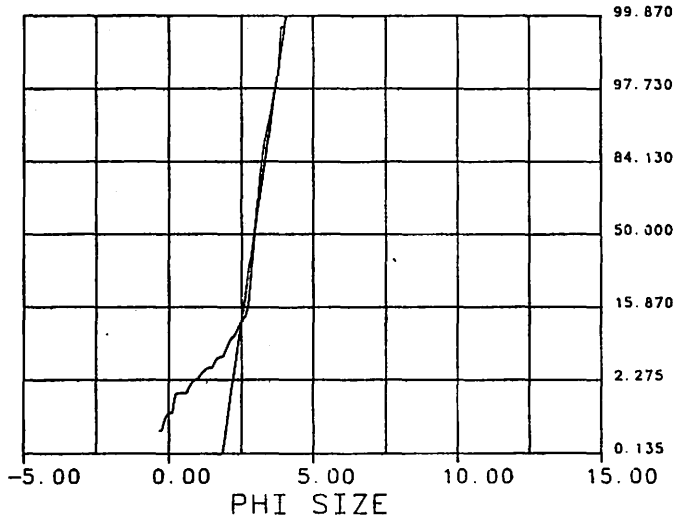
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S1



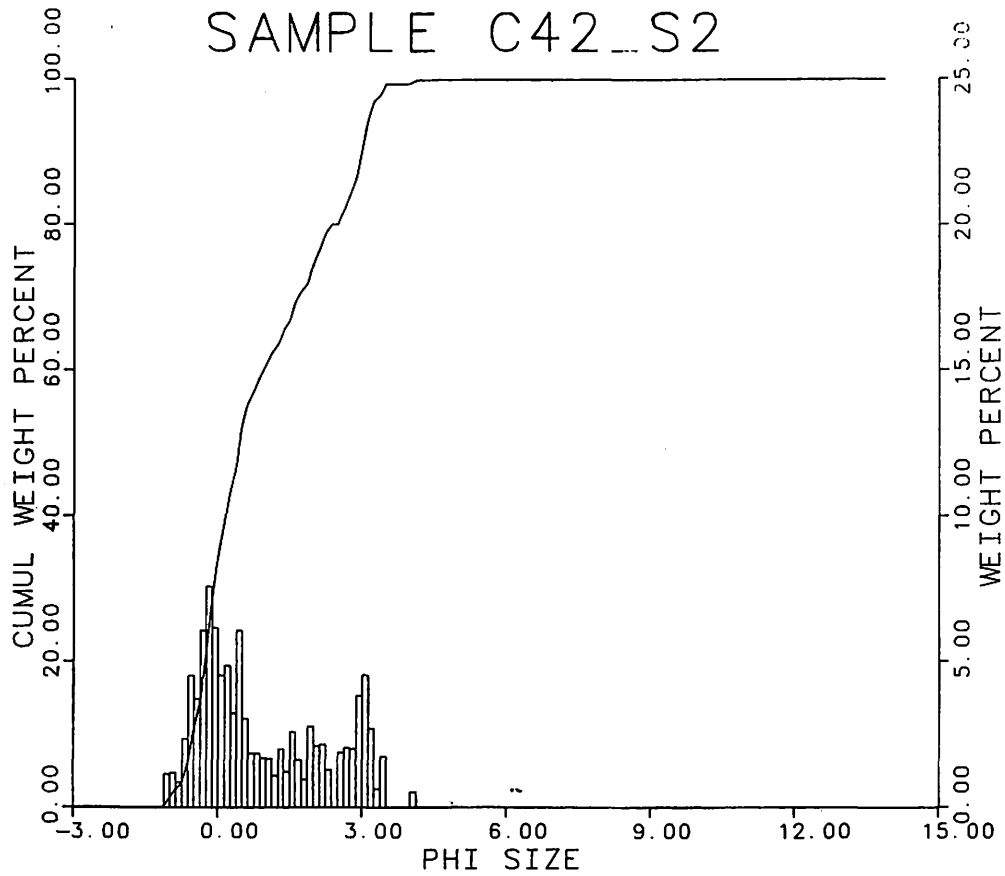
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	1.8
SAND	88.2
V-COARSE SAND	0.6
COARSE SAND	1.5
MEDIUM SAND	3.2
FINE SAND	46.7
V-FINE SAND	36.2
SILT	10.0
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.957
MEAN	2.962
STD. DEVIATION	0.366
INC. SKEWNESS	-0.150
INC. KURTOSIS	0.333
<b>Moment Measures</b>	
1st MOMENT	2.871
2nd MOMENT	0.570
3rd MOMENT	-2.834
4th MOMENT	14.112
DATE:	4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S2



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

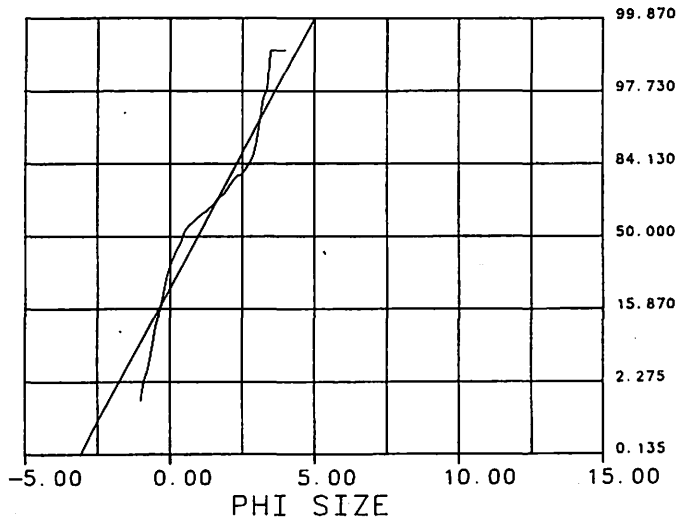
**Gross Parameters (%)**  
 GRAVEL ——— 26.9  
 SAND ——— 64.0  
   V-COARSE SAND — 21.1  
   COARSE SAND — 17.6  
   MEDIUM SAND — 9.1  
   FINE SAND — 9.9  
   V-FINE SAND — 6.3  
 SILT ——— 9.1  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 0.454  
 MEAN ——— 0.957  
 STD. DEVIATION — 1.346  
 INC. SKEWNESS — 0.454  
 INC. KURTOSIS — 0.746

**Moment Measures**  
 1st MOMENT ——— 0.916  
 2nd MOMENT ——— 1.309  
 3rd MOMENT ——— 0.548  
 4th MOMENT ——— 1.967

DATE: 4-6-88

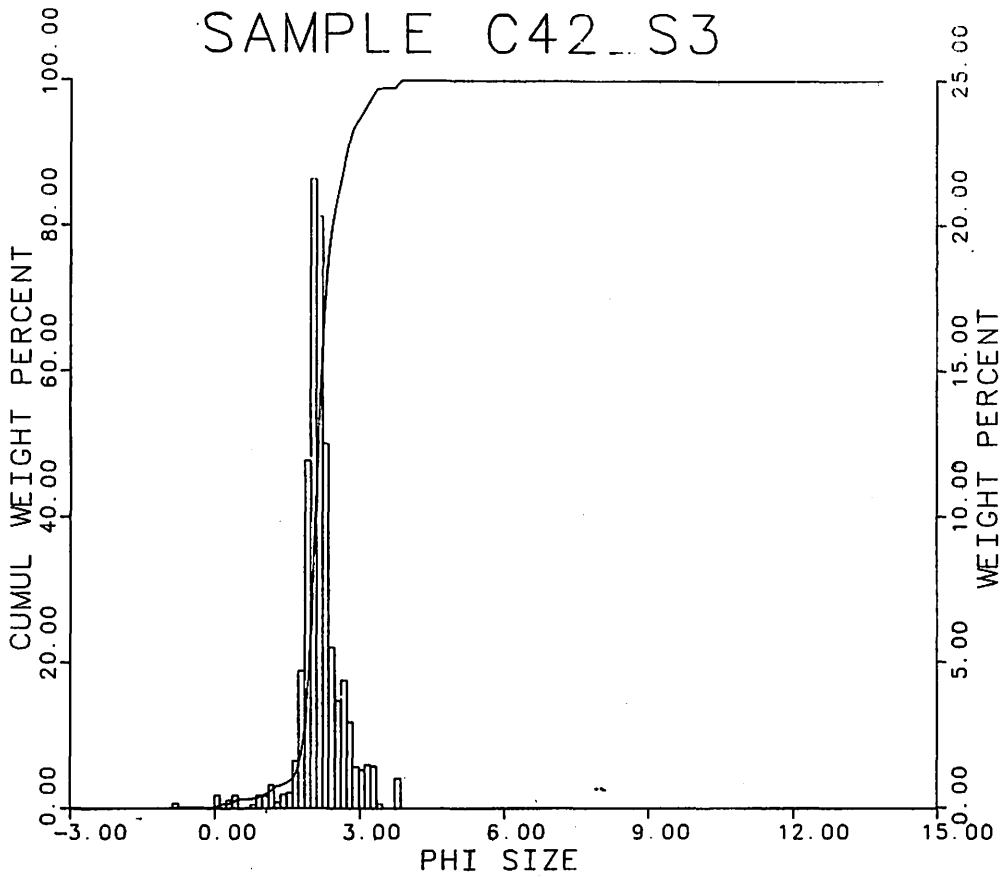
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C42\_S3



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

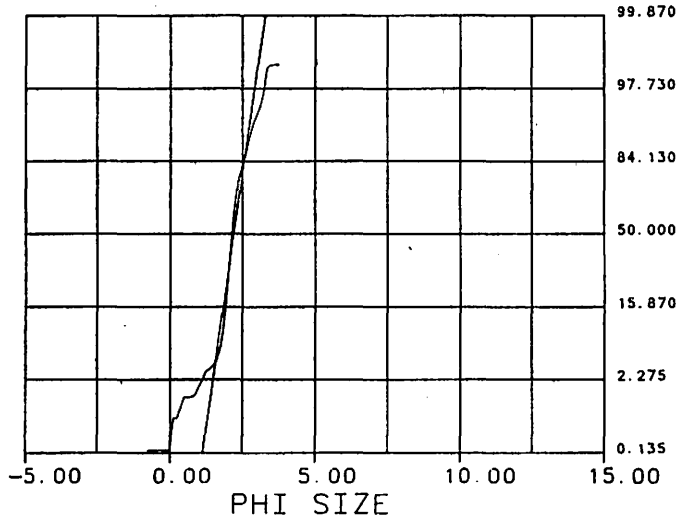
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 3.7  
 SAND \_\_\_\_\_ 87.7  
   V-COARSE SAND - 0.1  
   COARSE SAND - 1.4  
   MEDIUM SAND - 18.0  
   FINE SAND - 63.5  
   V-FINE SAND - 4.7  
 SILT \_\_\_\_\_ 8.6  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.162  
 MEAN \_\_\_\_\_ 2.218  
 STD. DEVIATION - 0.359  
 INC. SKEWNESS - 0.284  
 INC. KURTOSIS - 0.357

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.206  
 2nd MOMENT \_\_\_\_\_ 0.463  
 3rd MOMENT \_\_\_\_\_ -0.572  
 4th MOMENT \_\_\_\_\_ 9.658

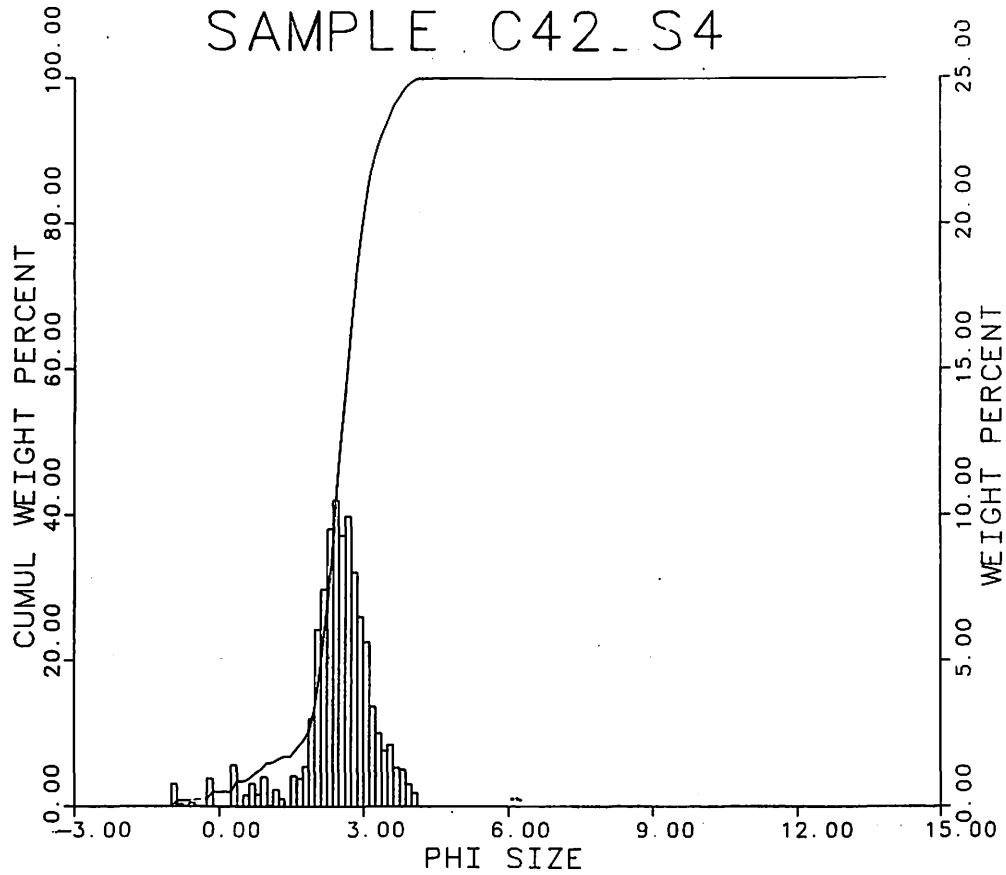
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S4



**Sample Location**

LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

**Gross Parameters (%)**

GRAVEL ----- 0.3  
 SAND ----- 34.7  
 V-COARSE SAND - 0.7  
 COARSE SAND --- 1.4  
 MEDIUM SAND --- 2.5  
 FINE SAND ----- 23.5  
 V-FINE SAND --- 6.6  
 SILT ----- 65.0  
 CLAY ----- 0.0

**Graphic Measures**

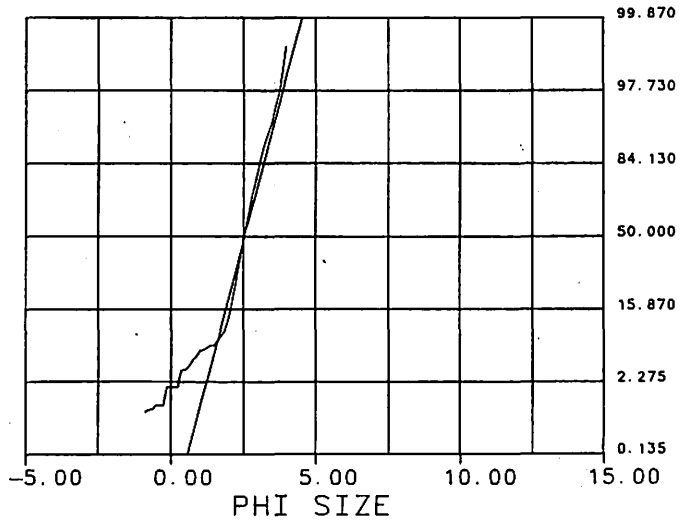
MEDIAN ----- 2.544  
 MEAN ----- 2.559  
 STD. DEVIATION- 0.659  
 INC. SKEWNESS - -0.099  
 INC. KURTOSIS - 0.552

**Moment Measures**

1st MOMENT ----- 2.481  
 2nd MOMENT ----- 0.760  
 3rd MOMENT ----- -1.584  
 4th MOMENT ----- 7.648

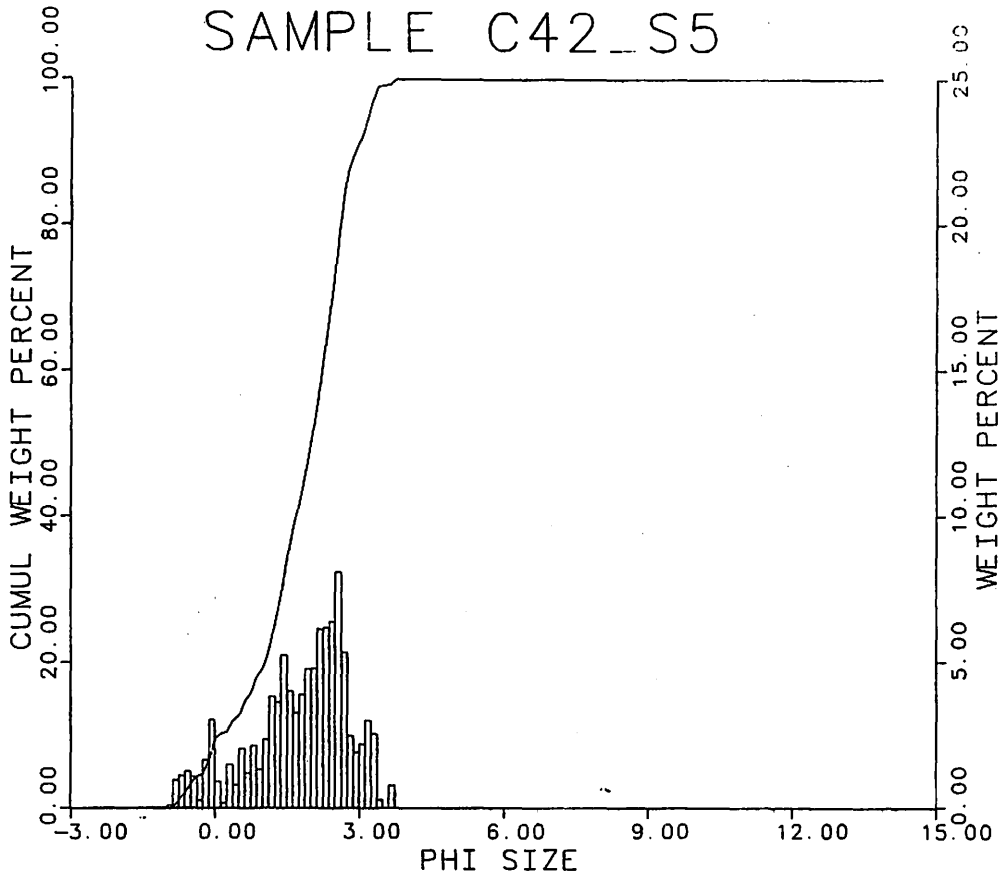
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S5



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

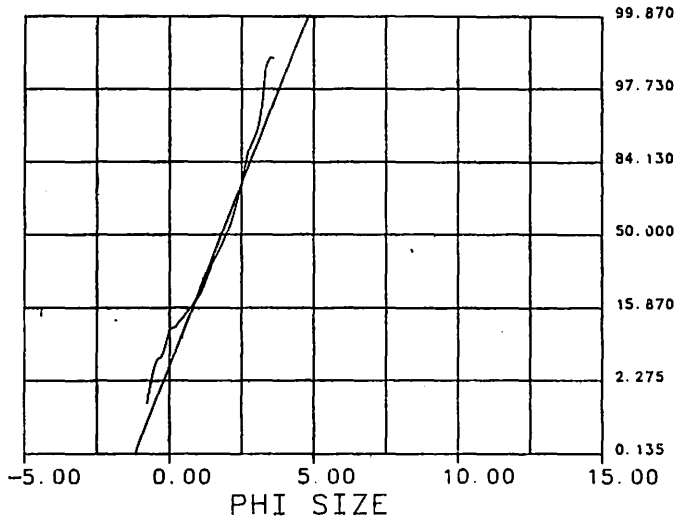
**Gross Parameters (%)**  
 GRAVEL ——— 22.3  
 SAND ——— 63.8  
   V-COARSE SAND — 5.9  
   COARSE SAND — 6.3  
   MEDIUM SAND — 19.7  
   FINE SAND — 26.3  
   V-FINE SAND — 5.6  
 SILT ——— 13.9  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.997  
 MEAN ——— 1.813  
 STD. DEVIATION — 0.997  
 INC. SKEWNESS — -0.294  
 INC. KURTOSIS — 0.694

**Moment Measures**  
 1st MOMENT ——— 1.784  
 2nd MOMENT ——— 1.008  
 3rd MOMENT ——— -0.717  
 4th MOMENT ——— 2.921

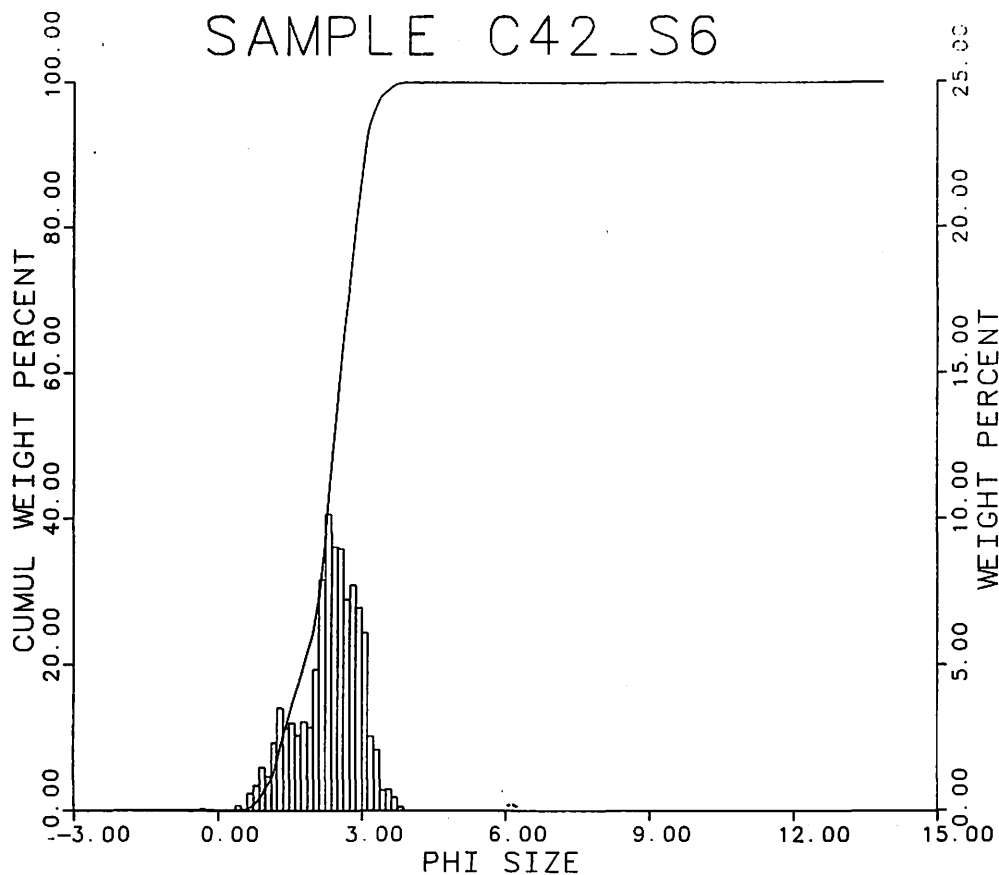
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S6



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

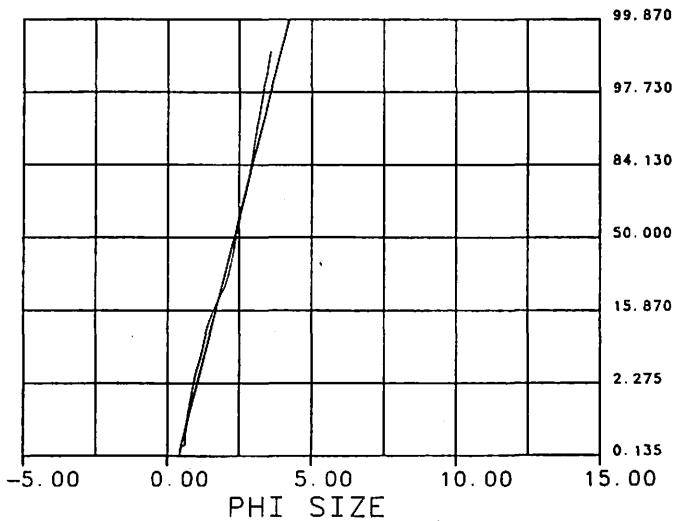
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 90.0  
 V-COARSE SAND - 0.0  
 COARSE SAND \_\_\_\_\_ 2.8  
 MEDIUM SAND \_\_\_\_\_ 19.2  
 FINE SAND \_\_\_\_\_ 56.6  
 V-FINE SAND \_\_\_\_\_ 11.4  
 SILT \_\_\_\_\_ 10.0  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.411  
 MEAN \_\_\_\_\_ 2.326  
 STD. DEVIATION \_\_\_\_\_ 0.637  
 INC. SKEWNESS \_\_\_\_\_ -0.210  
 INC. KURTOSIS \_\_\_\_\_ 0.426

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.335  
 2nd MOMENT \_\_\_\_\_ 0.622  
 3rd MOMENT \_\_\_\_\_ -0.575  
 4th MOMENT \_\_\_\_\_ 2.984

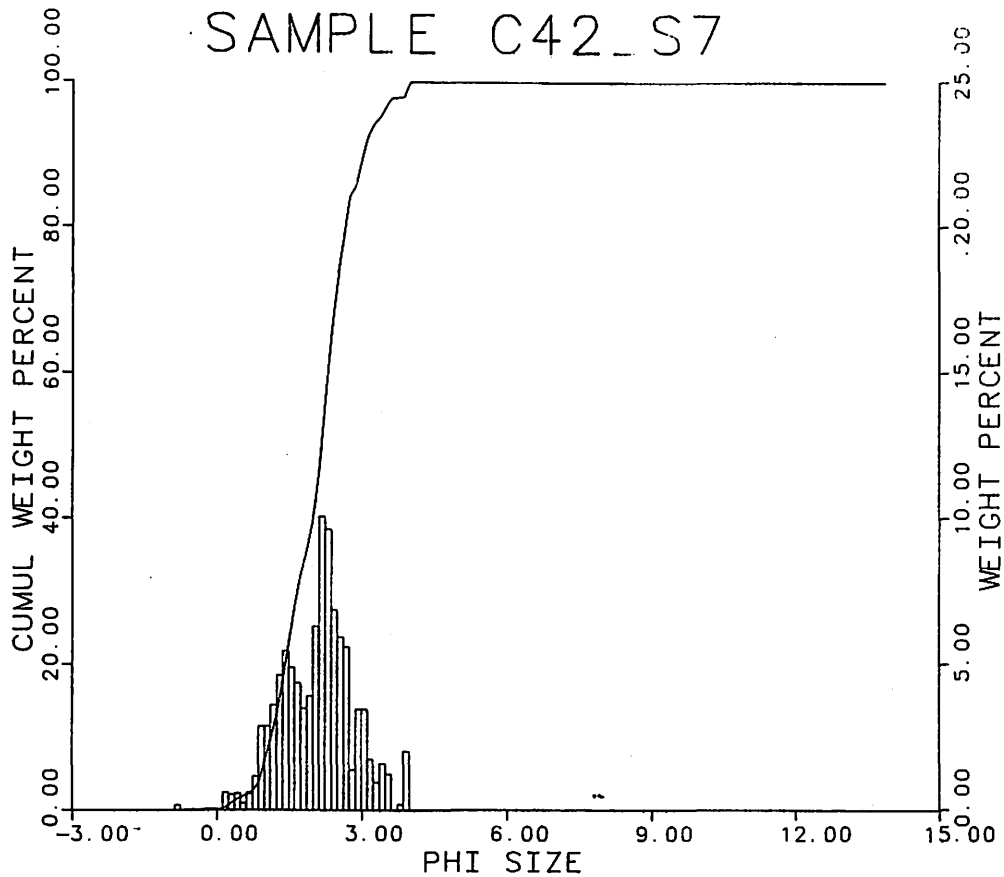
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S7



### Sample Location

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

### Gross Parameters (%)

GRAVEL ——— 0.1  
 SAND ——— 92.1  
   V-COARSE SAND — 0.2  
   COARSE SAND — 6.0  
   MEDIUM SAND — 30.6  
   FINE SAND — 45.2  
   V-FINE SAND — 10.2  
 SILT ——— 7.8  
 CLAY ——— 0.0

### Graphic Measures

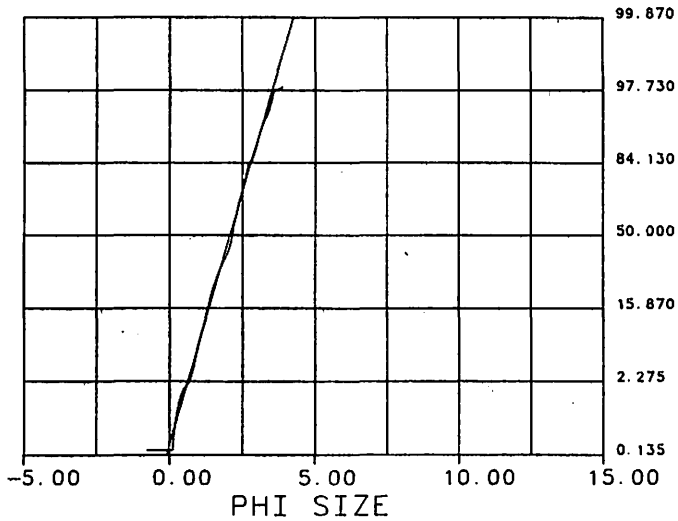
MEDIAN ——— 2.173  
 MEAN ——— 2.083  
 STD. DEVIATION — 0.725  
 INC. SKEWNESS — -0.106  
 INC. KURTOSIS — 0.522

### Moment Measures

1st MOMENT ——— 2.100  
 2nd MOMENT ——— 0.741  
 3rd MOMENT ——— -0.044  
 4th MOMENT ——— 3.171

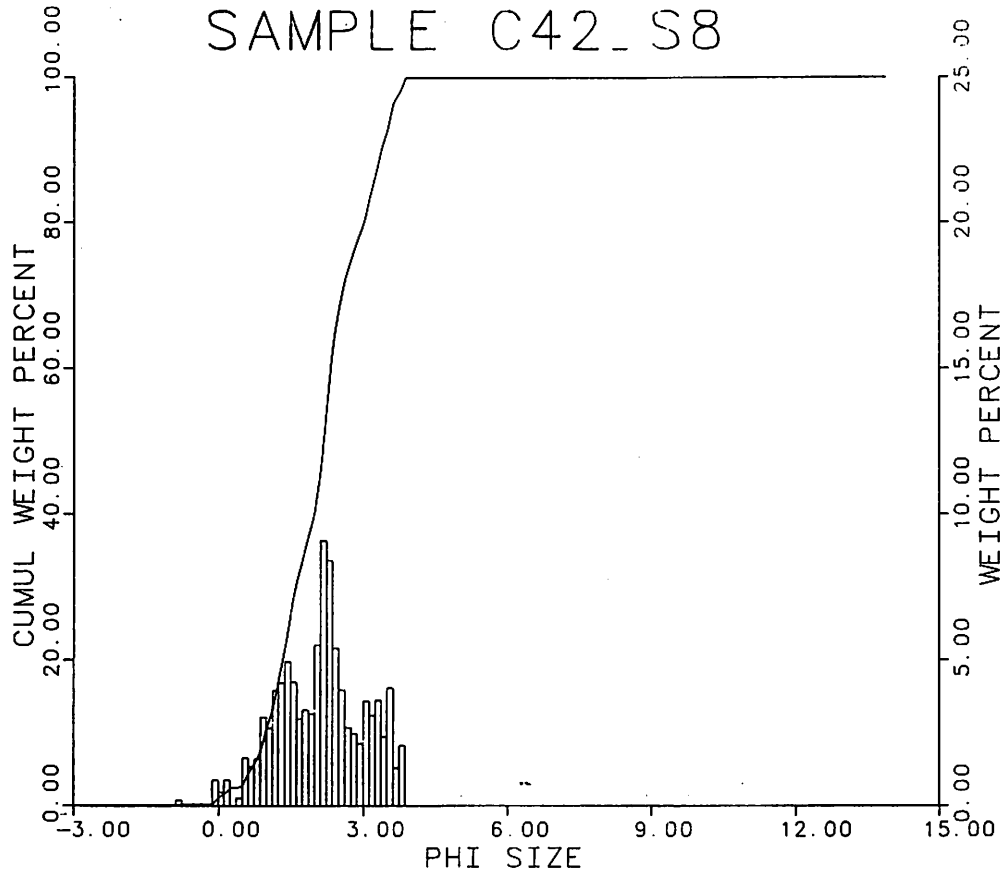
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S8



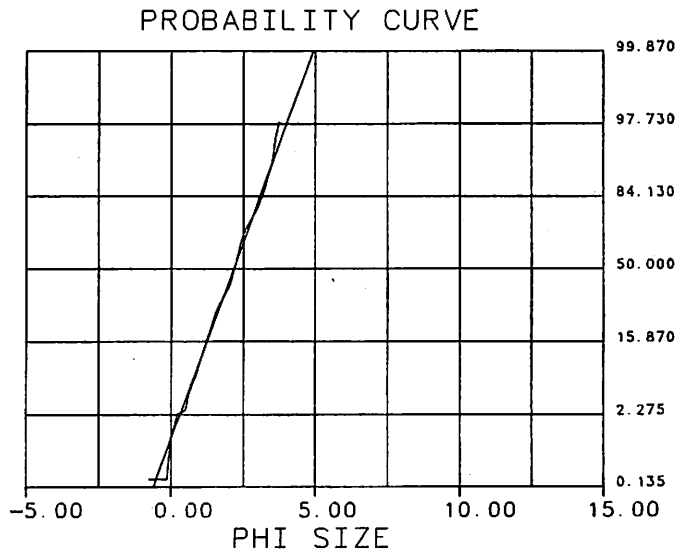
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 2.8  
 SAND \_\_\_\_\_ 79.9  
   V-COARSE SAND - 0.9  
   COARSE SAND --- 7.4  
   MEDIUM SAND --- 23.6  
   FINE SAND ---- 31.8  
   V-FINE SAND --- 16.1  
 SILT \_\_\_\_\_ 17.3  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.187  
 MEAN \_\_\_\_\_ 2.184  
 STD. DEVIATION- 0.921  
 INC. SKEWNESS - -0.022  
 INC. KURTOSIS - 0.554

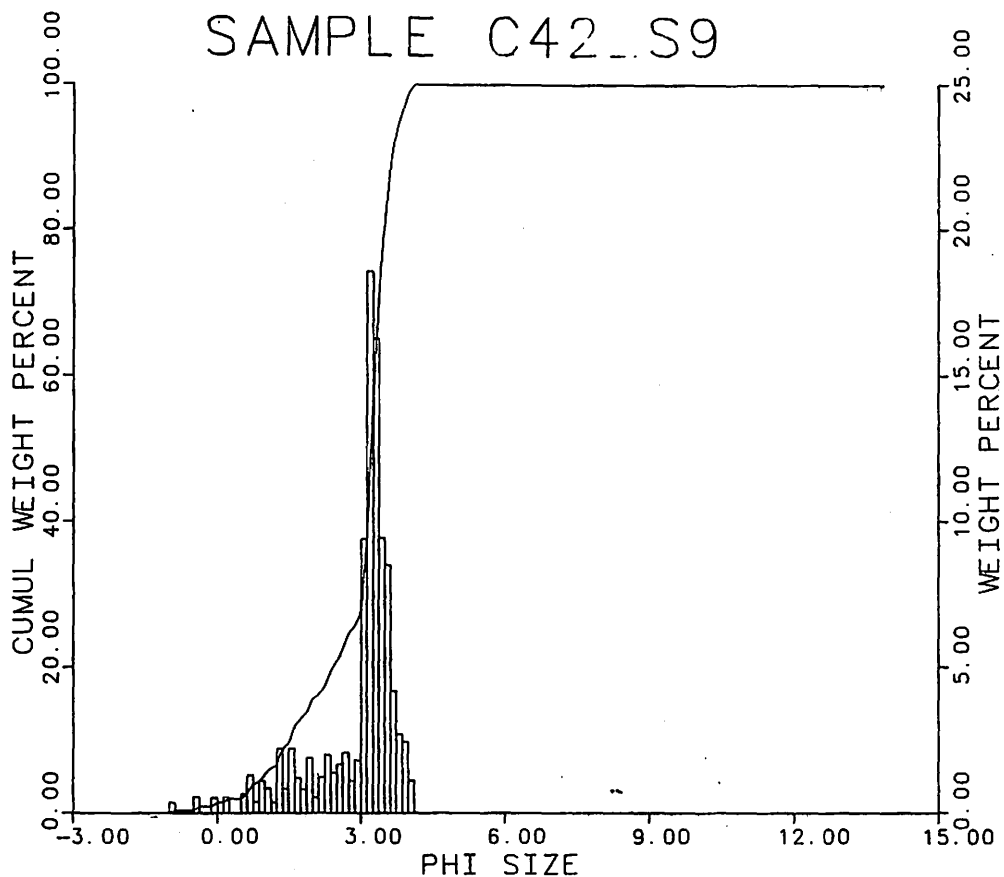
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.136  
 2nd MOMENT \_\_\_\_\_ 0.886  
 3rd MOMENT \_\_\_\_\_ -0.156  
 4th MOMENT \_\_\_\_\_ 2.592

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42\_S9



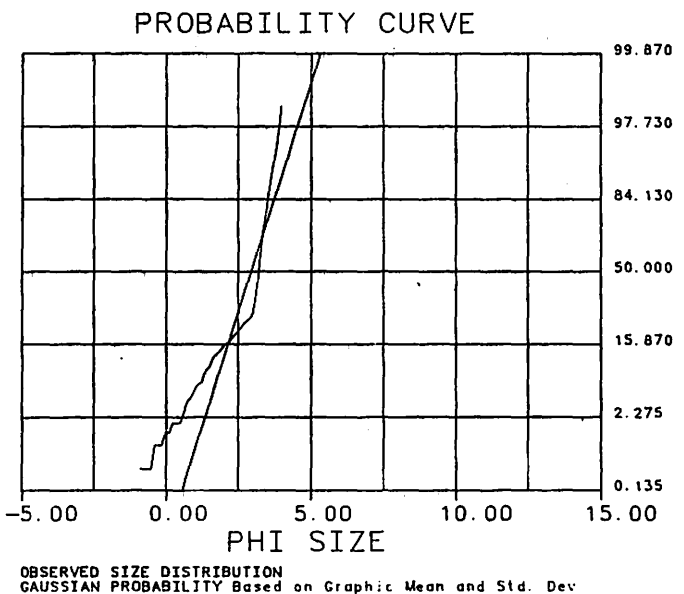
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 63.1  
 V-COARSE SAND - 0.9  
 COARSE SAND \_\_\_\_\_ 2.5  
 MEDIUM SAND \_\_\_\_\_ 6.6  
 FINE SAND \_\_\_\_\_ 7.5  
 V-FINE SAND \_\_\_\_\_ 45.6  
 SILT \_\_\_\_\_ 36.9  
 CLAY \_\_\_\_\_ 0.0

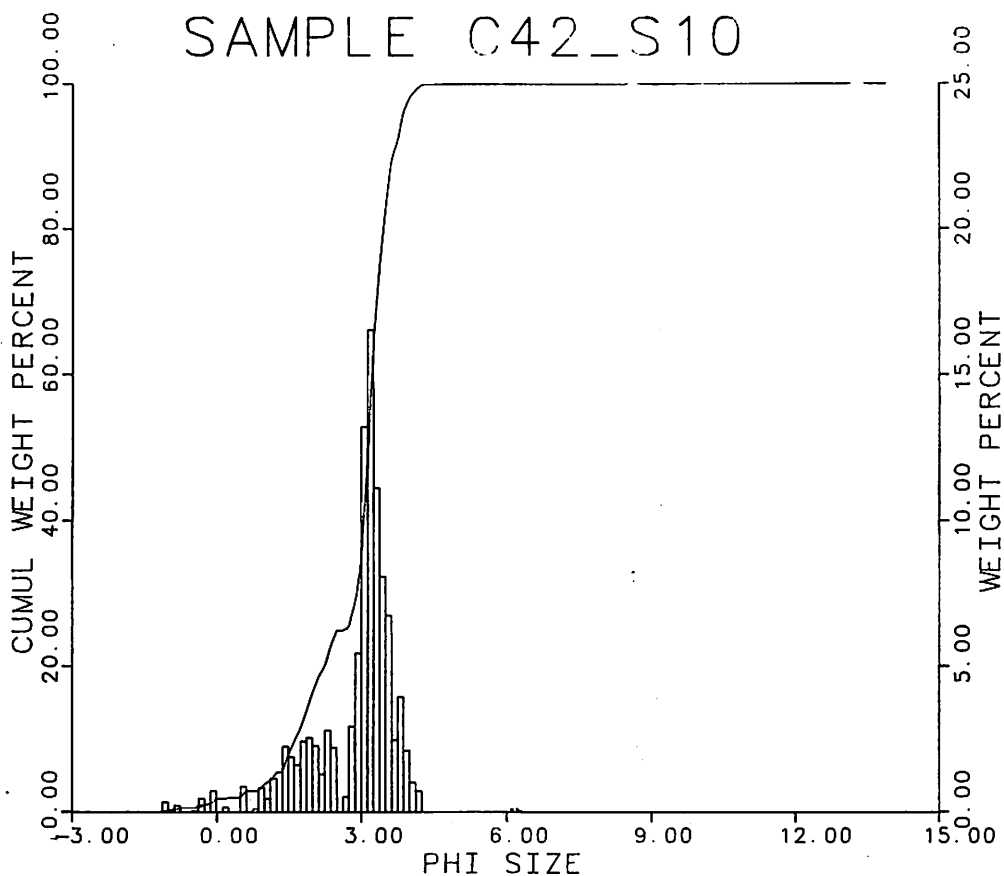
**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 3.214  
 MEAN \_\_\_\_\_ 2.949  
 STD. DEVIATION- 0.795  
 INC. SKEWNESS- -0.564  
 INC. KURTOSIS- 0.514

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.925  
 2nd MOMENT \_\_\_\_\_ 0.876  
 3rd MOMENT \_\_\_\_\_ -1.757  
 4th MOMENT \_\_\_\_\_ 5.908

DATE: 4-25-88



# SAMPLE C42\_S10



### Sample Location

LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

### Gross Parameters (%)

GRAVEL ----- 0.0  
 SAND ----- 59.4  
 V-COARSE SAND - 0.9  
 COARSE SAND --- 1.2  
 MEDIUM SAND --- 7.5  
 FINE SAND ----- 10.7  
 V-FINE SAND --- 39.1  
 SILT ----- 40.6  
 CLAY ----- 0.0

### Graphic Measures

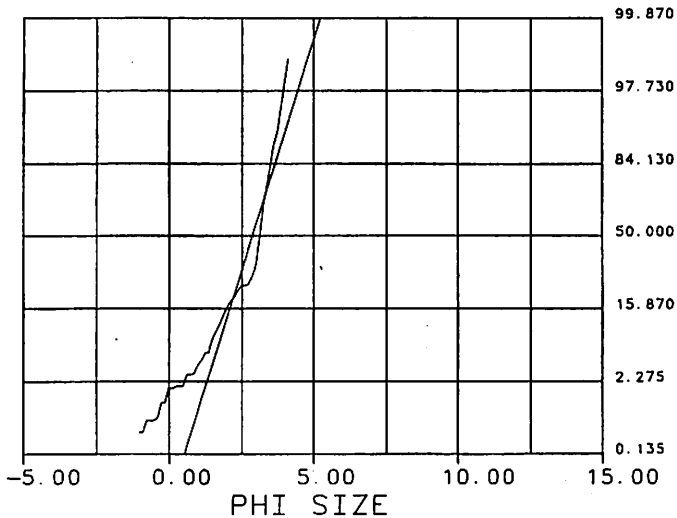
MEDIAN ----- 3.147  
 MEAN ----- 2.884  
 STD. DEVIATION- 0.784  
 INC. SKEWNESS- -0.495  
 INC. KURTOSIS- 0.472

### Moment Measures

1st MOMENT ----- 2.882  
 2nd MOMENT ----- 0.858  
 3rd MOMENT ----- -1.668  
 4th MOMENT ----- 6.279

DATE 4-25-88

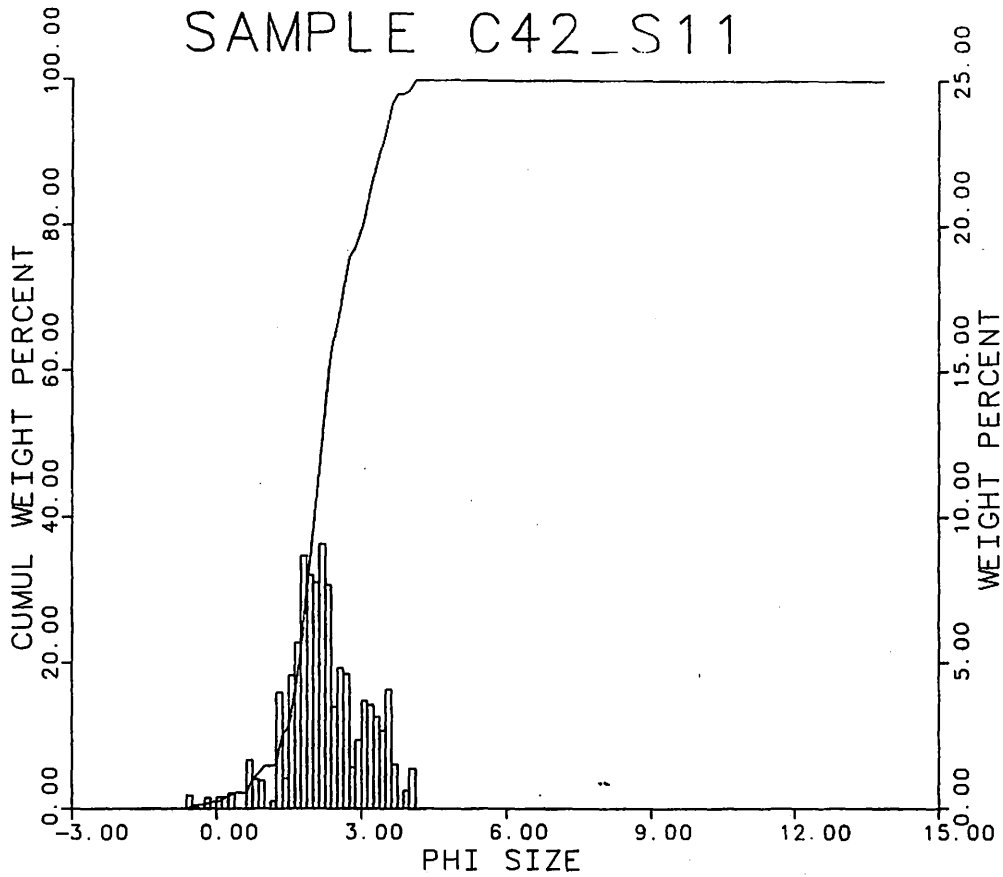
### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C42\_S11



### Sample Location

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

### Gross Parameters (%)

GRAVEL ——— 0.3  
 SAND ——— 55.0  
 V-COARSE SAND — 0.5  
 COARSE SAND — 2.8  
 MEDIUM SAND — 18.0  
 FINE SAND — 23.0  
 V-FINE SAND — 10.7  
 SILT ——— 44.7  
 CLAY ——— 0.0

### Graphic Measures

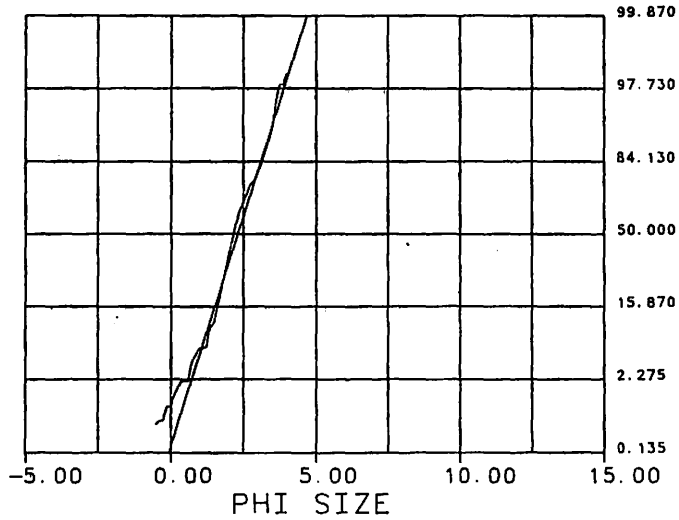
MEDIAN ——— 2.182  
 MEAN ——— 2.324  
 STD. DEVIATION — 0.789  
 INC. SKEWNESS — 0.159  
 INC. KURTOSIS — 0.552

### Moment Measures

1st MOMENT ——— 2.261  
 2nd MOMENT ——— 0.795  
 3rd MOMENT ——— -0.198  
 4th MOMENT ——— 3.636

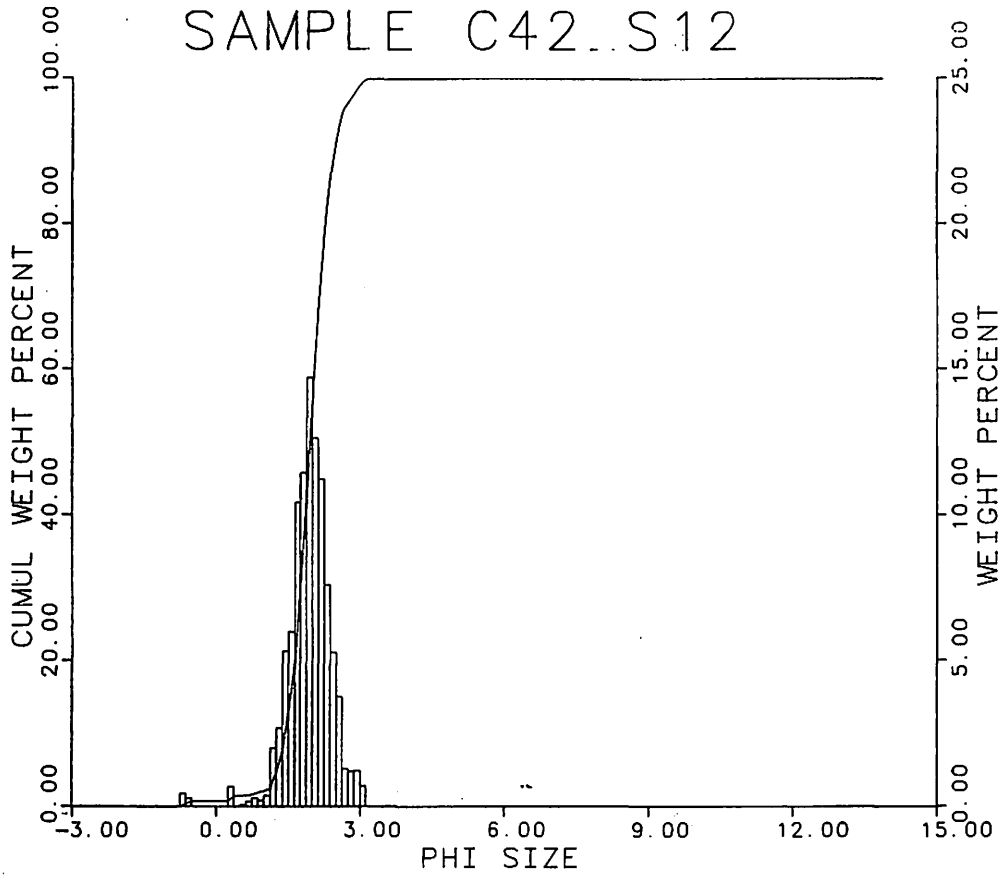
DATE: 4-25-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C42..S12



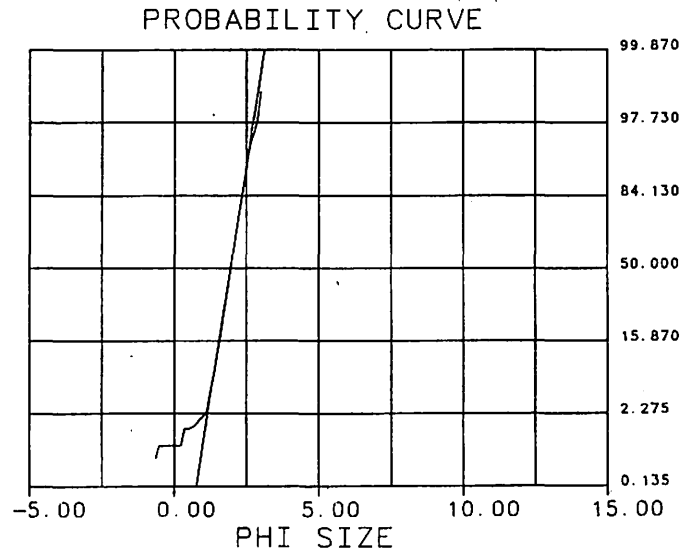
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.0  
 SAND \_\_\_\_\_ 93.4  
   V-COARSE SAND - 0.7  
   COARSE SAND   - 1.3  
   MEDIUM SAND  - 49.4  
   FINE SAND     - 41.3  
   V-FINE SAND   - 0.7  
 SILT \_\_\_\_\_ 6.6  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.957  
 MEAN \_\_\_\_\_ 1.955  
 STD. DEVIATION- 0.392  
 INC. SKEWNESS - -0.017  
 INC. KURTOSIS  - 0.362

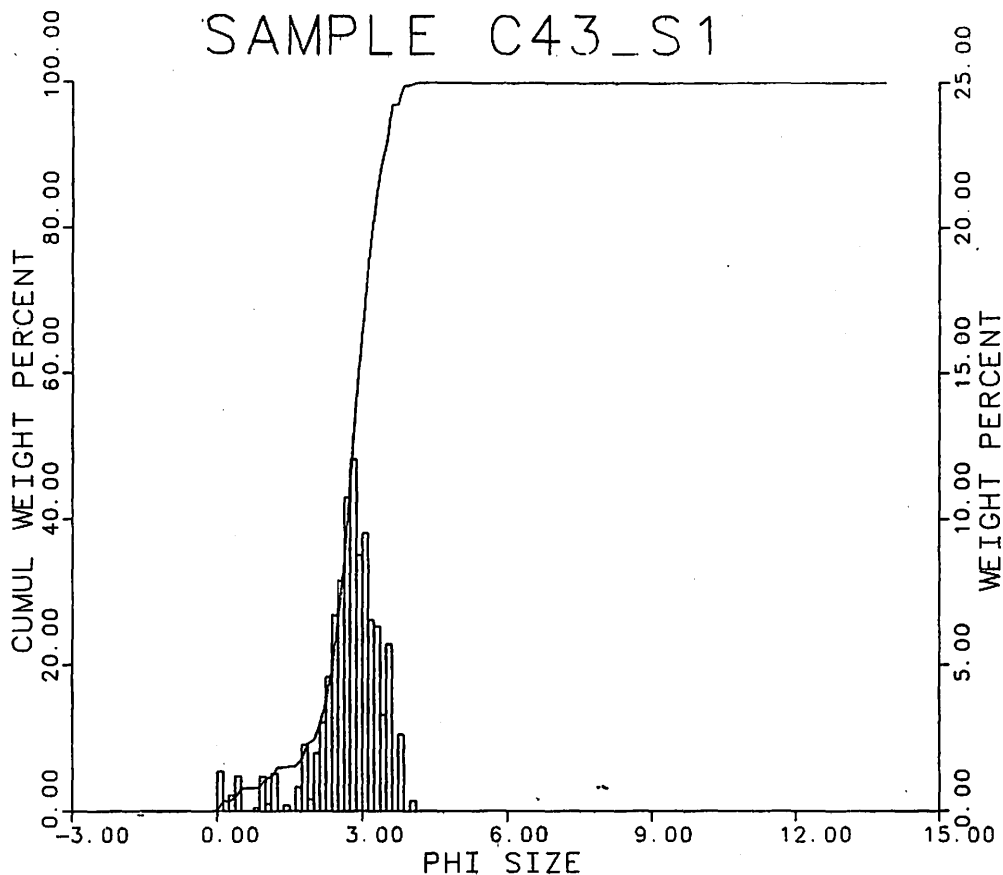
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.939  
 2nd MOMENT \_\_\_\_\_ 0.466  
 3rd MOMENT \_\_\_\_\_ -1.335  
 4th MOMENT \_\_\_\_\_ 9.575

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C43\_S1



**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

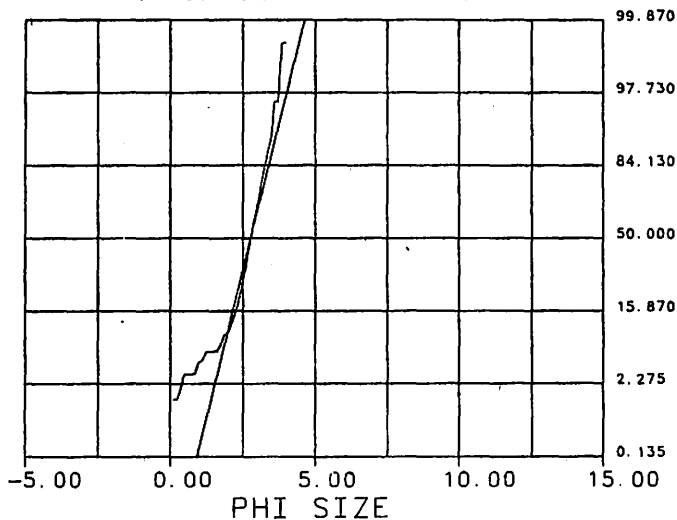
**Gross Parameters (%)**  
 GRAVEL ----- 2.4  
 SAND ----- 89.1  
   V-COARSE SAND ----- 0.0  
   COARSE SAND ----- 4.0  
   MEDIUM SAND ----- 4.7  
   FINE SAND ----- 50.0  
   V-FINE SAND ----- 30.5  
 SILT ----- 8.5  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 2.805  
 MEAN ----- 2.795  
 STD. DEVIATION ----- 0.620  
 INC. SKEWNESS ----- -0.194  
 INC. KURTOSIS ----- 0.471

**Moment Measures**  
 1st MOMENT ----- 2.714  
 2nd MOMENT ----- 0.696  
 3rd MOMENT ----- -1.584  
 4th MOMENT ----- 6.576

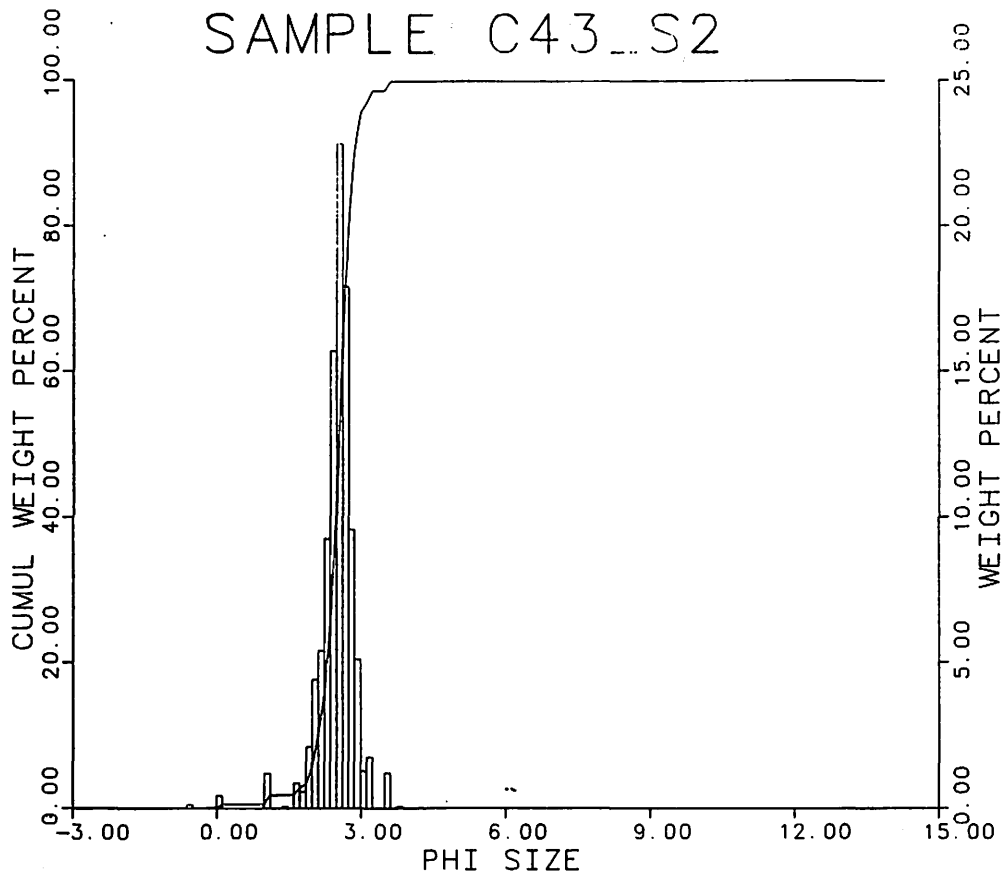
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev.

# SAMPLE C43\_S2



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

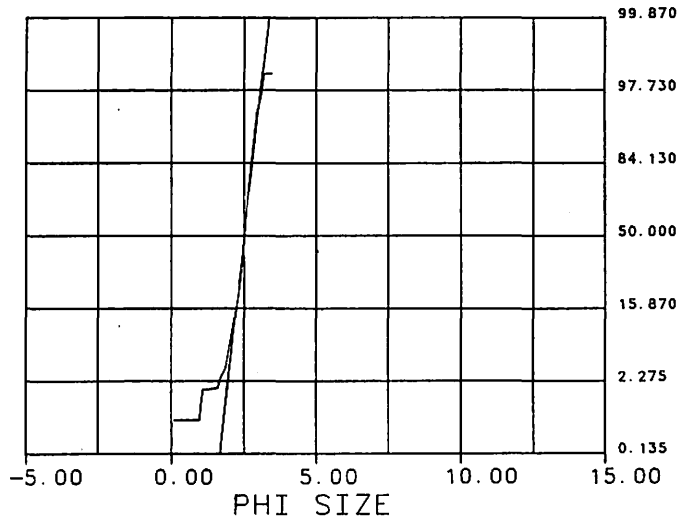
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.2  
 SAND \_\_\_\_\_ 94.4  
   V-COARSE SAND - 0.1  
   COARSE SAND   - 0.4  
   MEDIUM SAND   - 4.6  
   FINE SAND       - 85.3  
   V-FINE SAND    - 4.1  
 SILT \_\_\_\_\_ 5.4  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.554  
 MEAN \_\_\_\_\_ 2.535  
 STD. DEVIATION- 0.284  
 INC. SKEWNESS - -0.127  
 INC. KURTOSIS - 0.238

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.515  
 2nd MOMENT \_\_\_\_\_ 0.385  
 3rd MOMENT \_\_\_\_\_ -2.164  
 4th MOMENT \_\_\_\_\_ 15.960

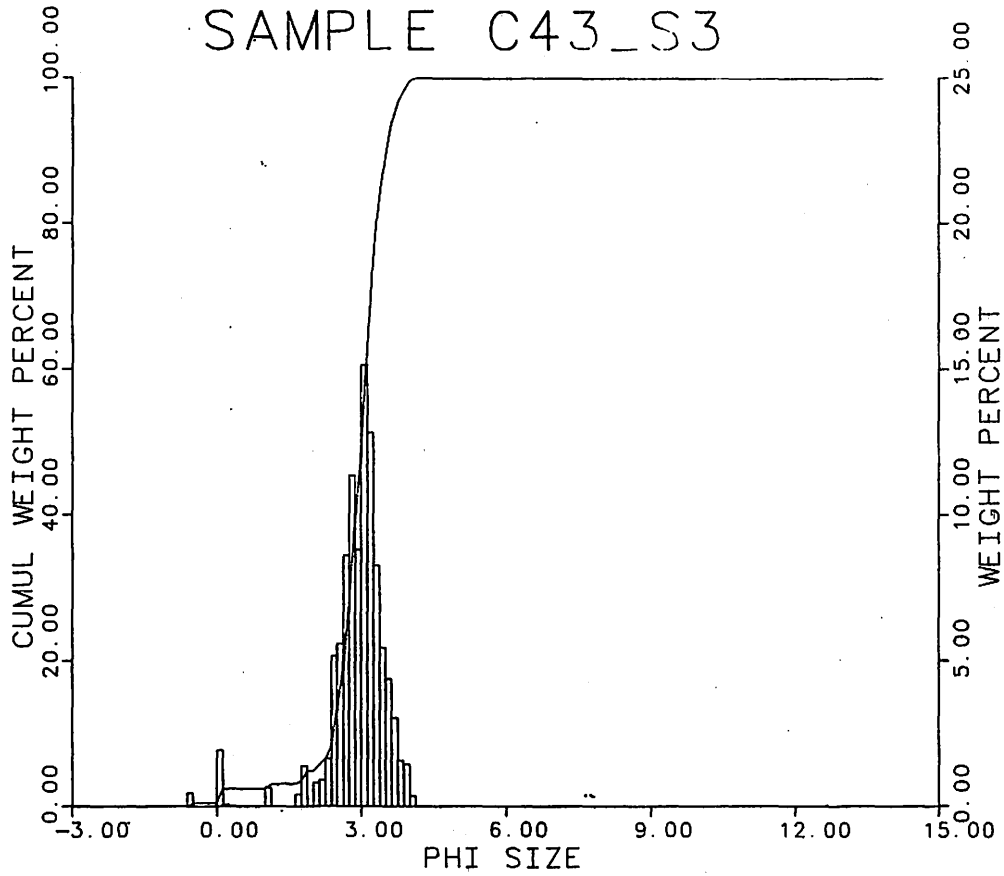
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C43\_S3



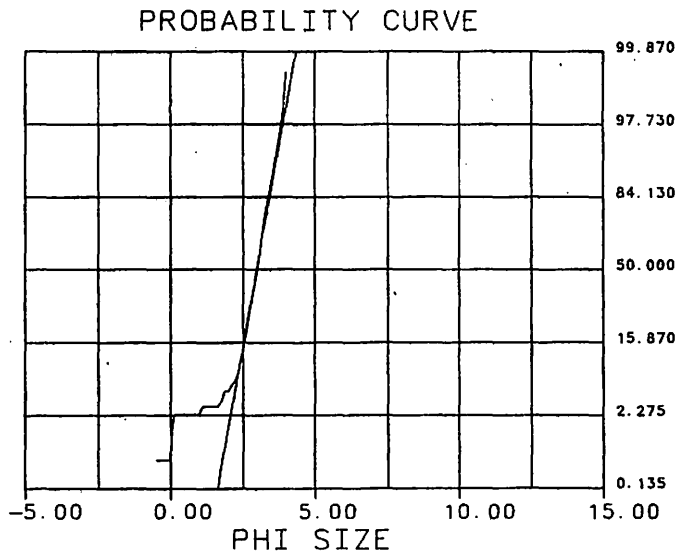
**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

**Gross Parameters (%)**  
 GRAVEL ----- 0.3  
 SAND ----- 64.0  
 V-COARSE SAND - 0.3  
 COARSE SAND ----- 1.3  
 MEDIUM SAND ----- 1.5  
 FINE SAND ----- 27.5  
 V-FINE SAND ----- 33.4  
 SILT ----- 35.7  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 3.019  
 MEAN ----- 2.986  
 STD. DEVIATION- 0.454  
 INC. SKEWNESS- -0.161  
 INC. KURTOSIS- 0.317

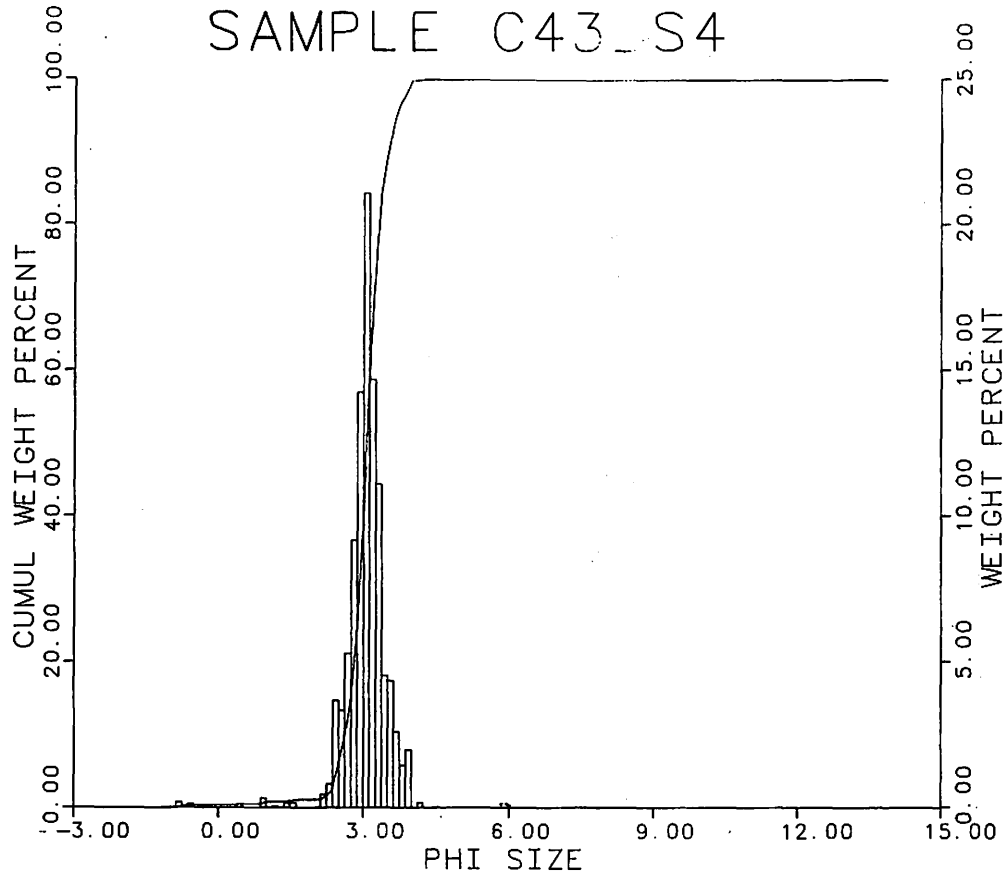
**Moment Measures**  
 1st MOMENT ----- 2.917  
 2nd MOMENT ----- 0.638  
 3rd MOMENT ----- -2.534  
 4th MOMENT ----- 12.815

DATE: 4-25-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C43\_S4



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

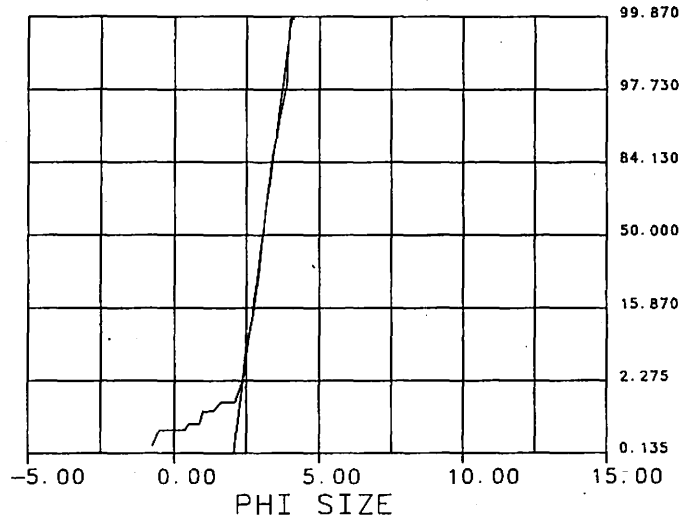
Gross Parameters (%)  
 GRAVEL ——— 0.0  
 SAND ——— 78.1  
 V-COARSE SAND — 0.3  
 COARSE SAND — 0.3  
 MEDIUM SAND — 0.3  
 FINE SAND — 28.9  
 V-FINE SAND — 48.3  
 SILT ——— 21.9  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 3.071  
 MEAN ——— 3.068  
 STD. DEVIATION — 0.333  
 INC. SKEWNESS — -0.006  
 INC. KURTOSIS — 0.239

Moment Measures  
 1st MOMENT ——— 3.055  
 2nd MOMENT ——— 0.434  
 3rd MOMENT ——— -2.930  
 4th MOMENT ——— 25.544

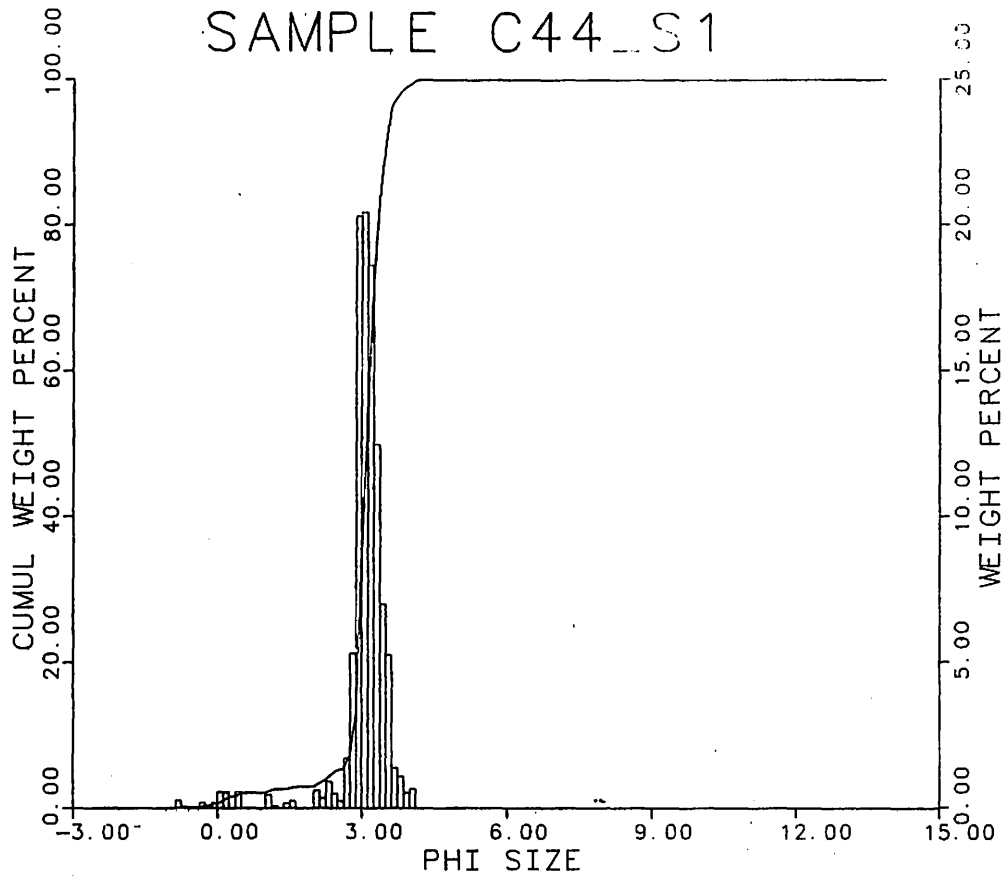
DATE: 4-25-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C44\_S1



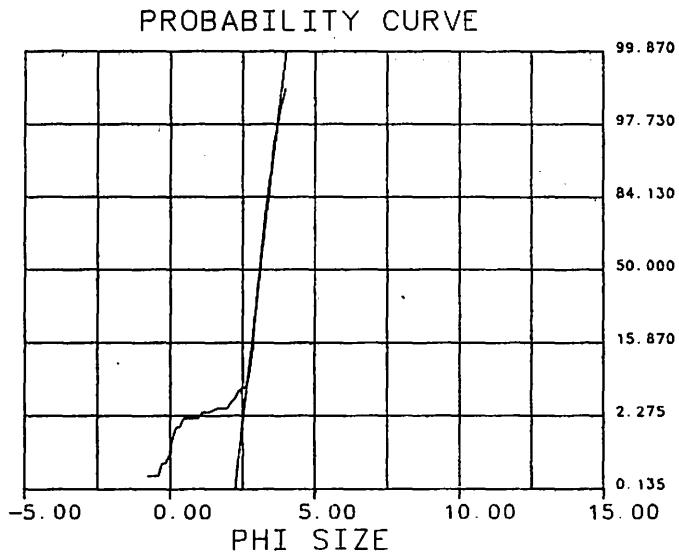
**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

**Gross Parameters (%)**  
 GRAVEL ——— 0.1  
 SAND ——— 89.0  
   V-COARSE SAND — 0.5  
   COARSE SAND — 1.4  
   MEDIUM SAND — 0.7  
   FINE SAND — 26.7  
   V-FINE SAND — 59.7  
 SILT ——— 10.9  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 3.106  
 MEAN ——— 3.125  
 STD. DEVIATION — 0.294  
 INC. SKEWNESS — -0.018  
 INC. KURTOSIS — 0.228

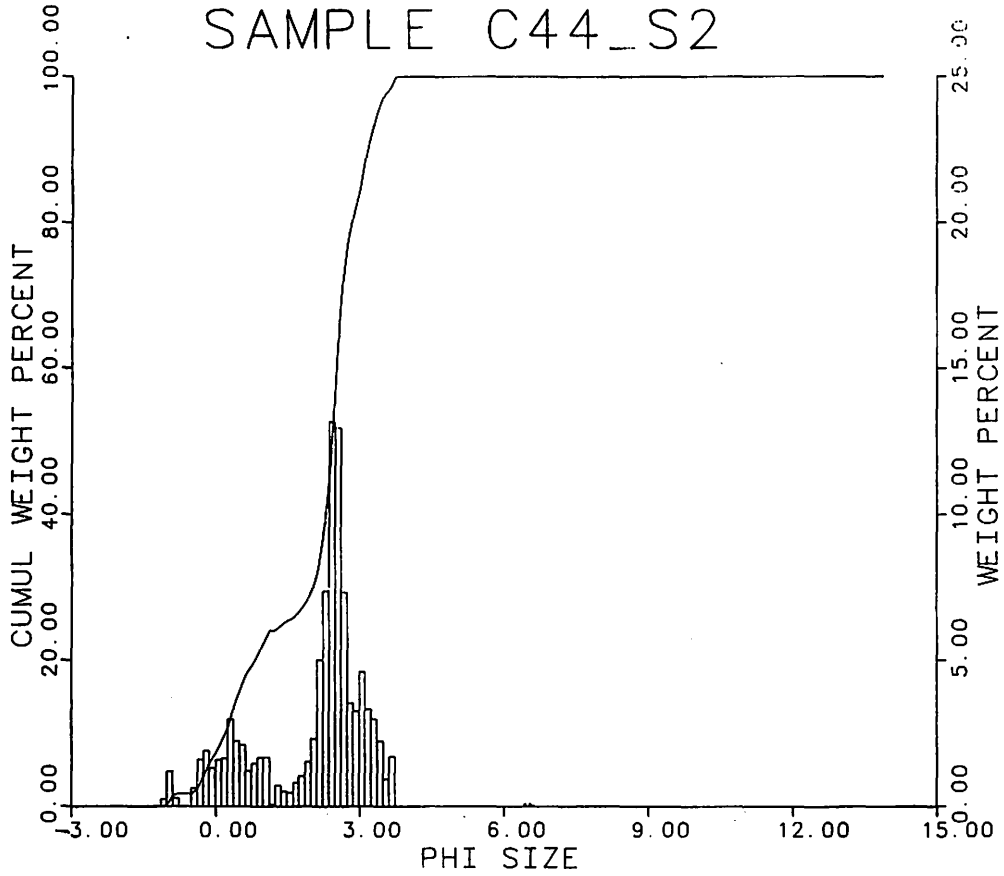
**Moment Measures**  
 1st MOMENT ——— 3.053  
 2nd MOMENT ——— 0.550  
 3rd MOMENT ——— -3.813  
 4th MOMENT ——— 22.091

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C44\_S2



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

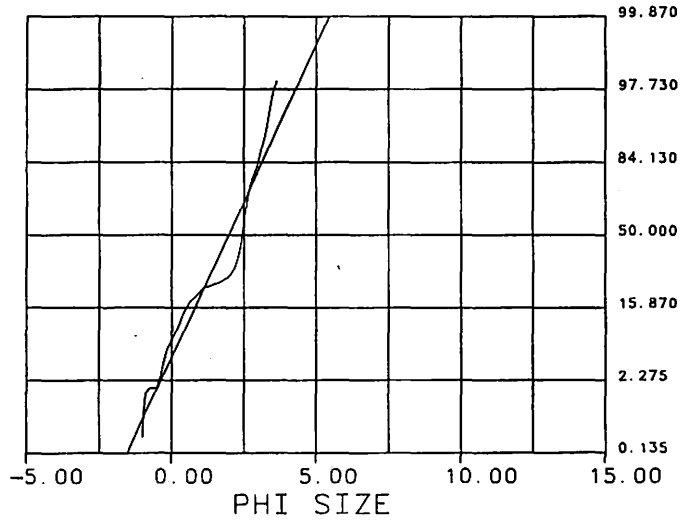
Gross Parameters (%)  
 GRAVEL ——— 4.7  
 SAND ——— 85.3  
 V-COARSE SAND — 6.0  
 COARSE SAND — 12.8  
 MEDIUM SAND — 5.9  
 FINE SAND — 47.0  
 V-FINE SAND — 13.5  
 SILT ——— 10.0  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 2.433  
 MEAN ——— 1.980  
 STD. DEVIATION — 1.159  
 INC. SKEWNESS — -0.511  
 INC. KURTOSIS — 0.686

Moment Measures  
 1st MOMENT ——— 2.042  
 2nd MOMENT ——— 1.113  
 3rd MOMENT ——— -0.981  
 4th MOMENT ——— 2.919

DATE: 4-6-88

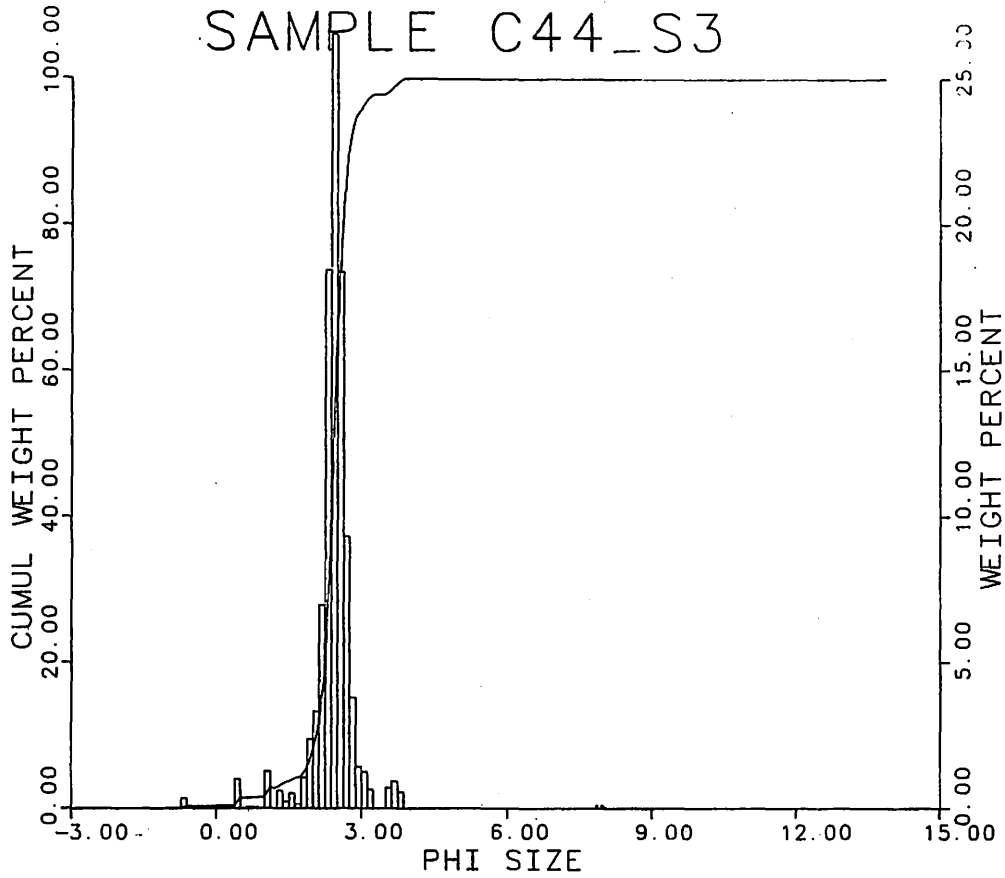
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C44\_S3



## Sample Location

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

## Gross Parameters (%)

GRAVEL ——— 0.0  
 SAND ——— 93.8  
 V-COARSE SAND — 0.4  
 COARSE SAND — 1.1  
 MEDIUM SAND — 5.8  
 FINE SAND — 82.8  
 V-FINE SAND — 3.8  
 SILT ——— 6.2  
 CLAY ——— 0.0

## Graphic Measures

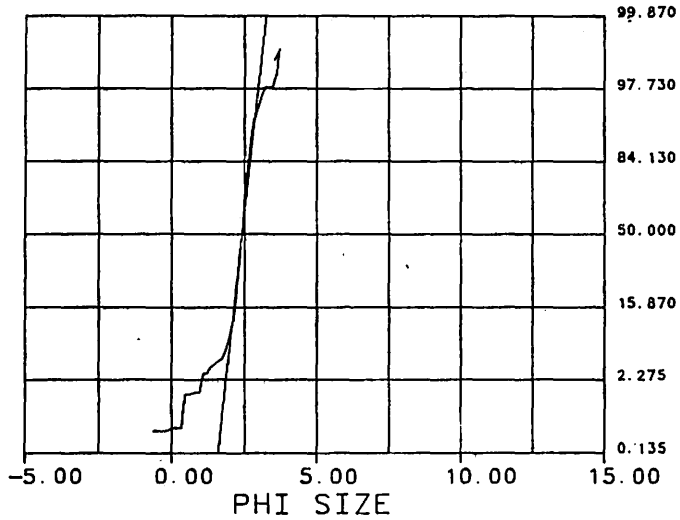
MEDIAN ——— 2.439  
 MEAN ——— 2.438  
 STD. DEVIATION — 0.275  
 INC. SKEWNESS — -0.059  
 INC. KURTOSIS — 0.270

## Moment Measures

1st MOMENT ——— 2.408  
 2nd MOMENT ——— 0.447  
 3rd MOMENT ——— -2.046  
 4th MOMENT ——— 15.448

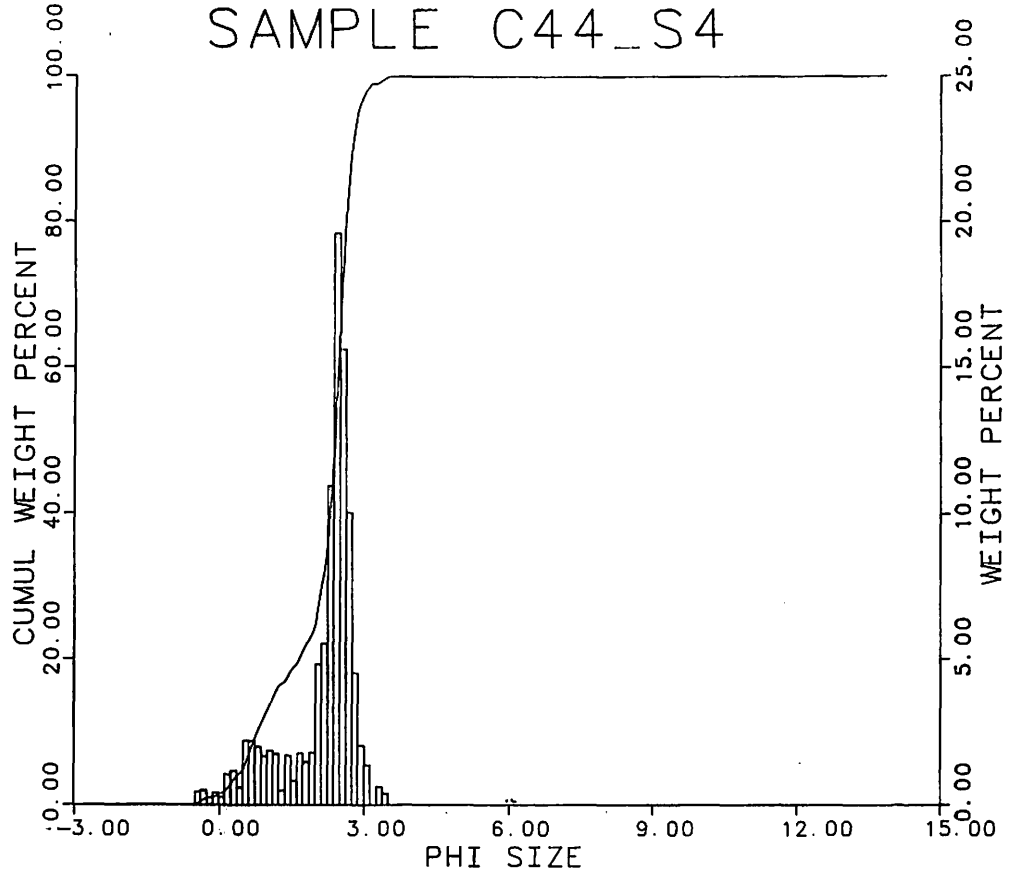
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C44\_S4



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

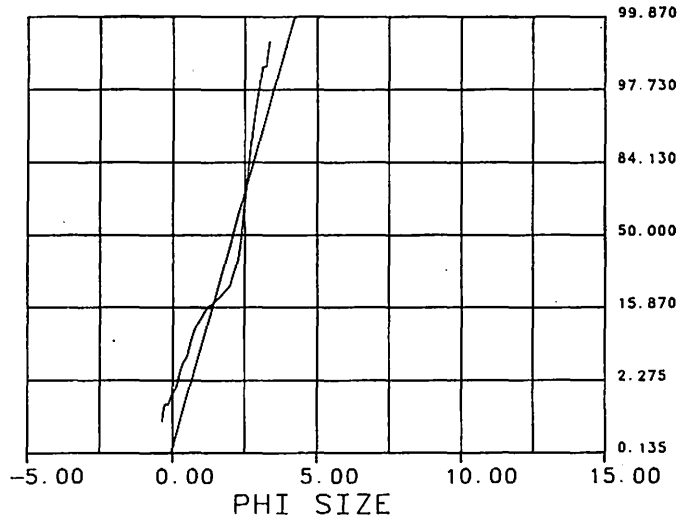
**Gross Parameters (%)**  
 GRAVEL ——— 0.4  
 SAND ——— 91.7  
 V-COARSE SAND — 1.3  
 COARSE SAND — 10.3  
 MEDIUM SAND — 10.8  
 FINE SAND — 67.2  
 V-FINE SAND — 2.2  
 SILT ——— 7.9  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 2.402  
 MEAN ——— 2.099  
 STD. DEVIATION— 0.711  
 INC. SKEWNESS— -0.622  
 INC. KURTOSIS— 0.546

**Moment Measures**  
 1st MOMENT ——— 2.129  
 2nd MOMENT ——— 0.742  
 3rd MOMENT ——— -1.424  
 4th MOMENT ——— 4.283

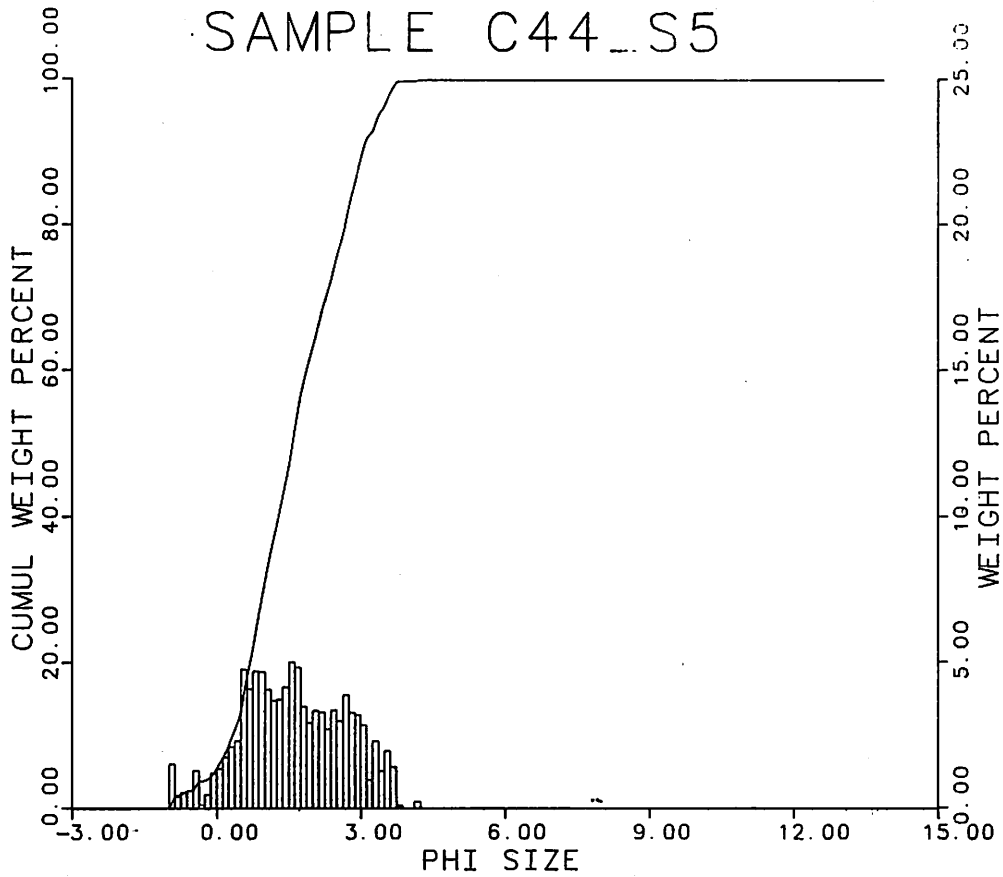
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C44\_S5



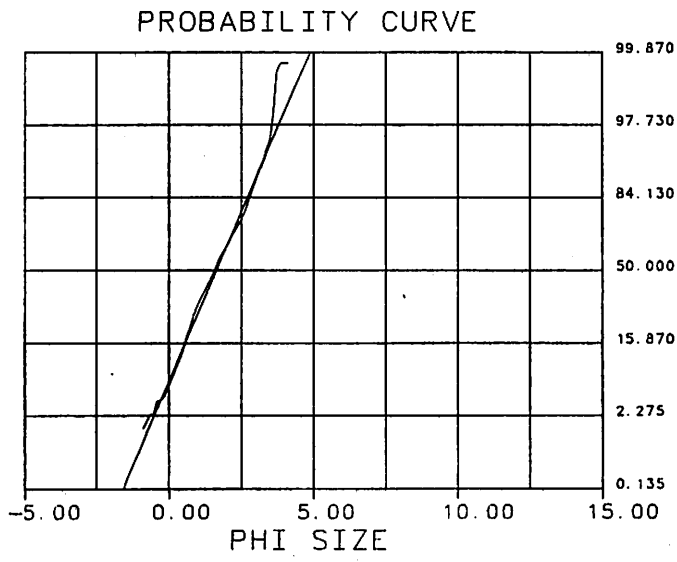
**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

**Gross Parameters (%)**  
 GRAVEL ----- 0.3  
 SAND ----- 85.2  
   V-COARSE SAND - 4.6  
   COARSE SAND --- 21.9  
   MEDIUM SAND --- 27.2  
   FINE SAND ---- 22.2  
   V-FINE SAND --- 9.2  
 SILT ----- 14.5  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 1.582  
 MEAN ----- 1.657  
 STD. DEVIATION- 1.073  
 INC. SKEWNESS- 0.074  
 INC. KURTOSIS-- 0.656

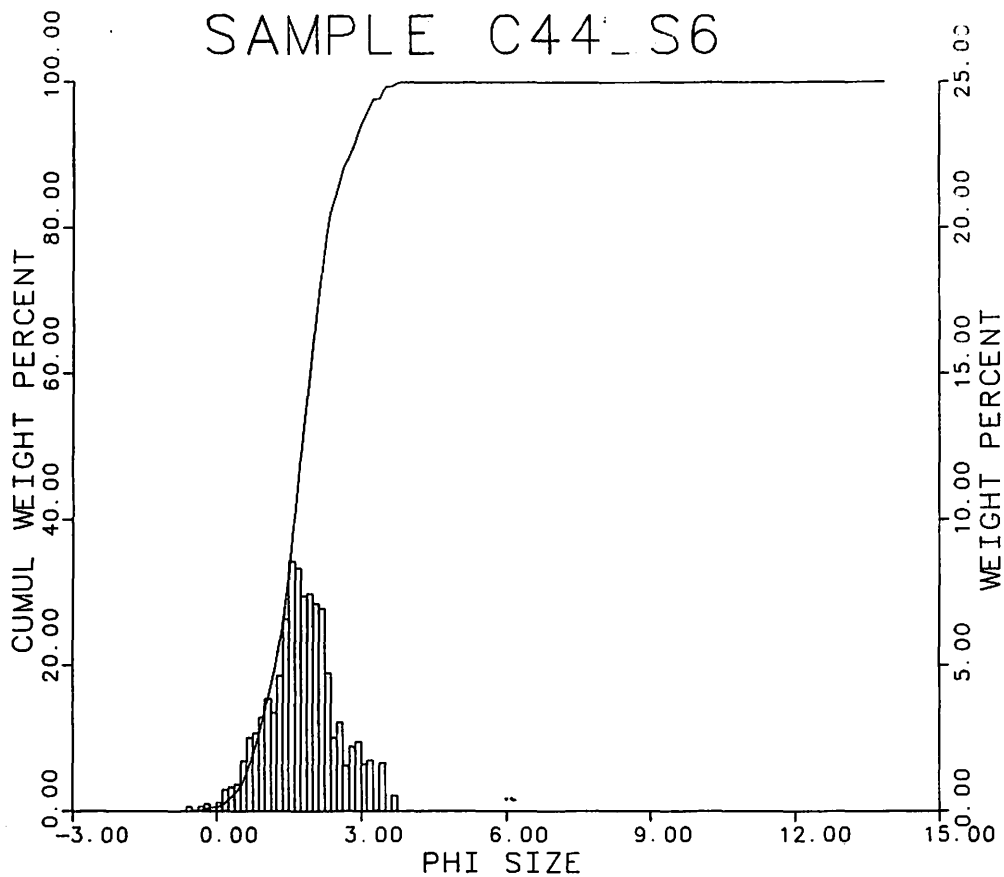
**Moment Measures**  
 1st MOMENT ----- 1.626  
 2nd MOMENT ----- 1.062  
 3rd MOMENT ----- -0.051  
 4th MOMENT ----- 2.445

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C44\_S6



Sample Location  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

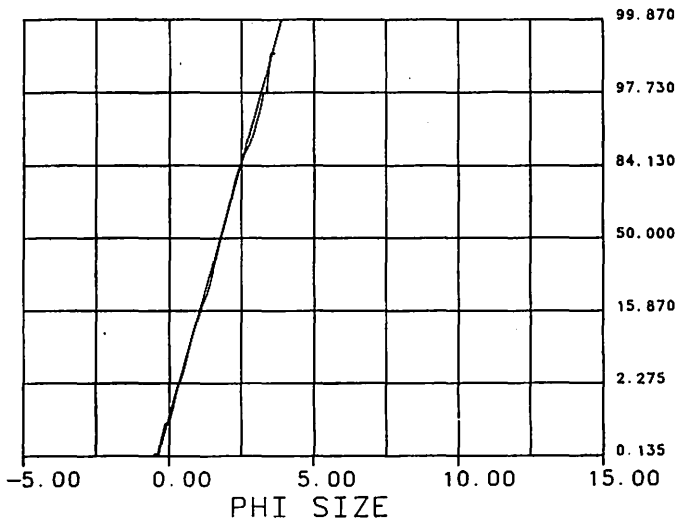
Gross Parameters (%)  
 GRAVEL \_\_\_\_\_ 1.4  
 SAND \_\_\_\_\_ 82.1  
   V-COARSE SAND - 0.4  
   COARSE SAND   - 10.6  
   MEDIUM SAND   - 41.3  
   FINE SAND      - 25.1  
   V-FINE SAND    - 4.6  
 SILT \_\_\_\_\_ 16.5  
 CLAY \_\_\_\_\_ 0.0

Graphic Measures  
 MEDIAN \_\_\_\_\_ 1.768  
 MEAN \_\_\_\_\_ 1.764  
 STD. DEVIATION- 0.708  
 INC. SKEWNESS- 0.022  
 INC. KURTOSIS- 0.607

Moment Measures  
 1st MOMENT \_\_\_\_\_ 1.783  
 2nd MOMENT \_\_\_\_\_ 0.709  
 3rd MOMENT \_\_\_\_\_ 0.050  
 4th MOMENT \_\_\_\_\_ 3.147

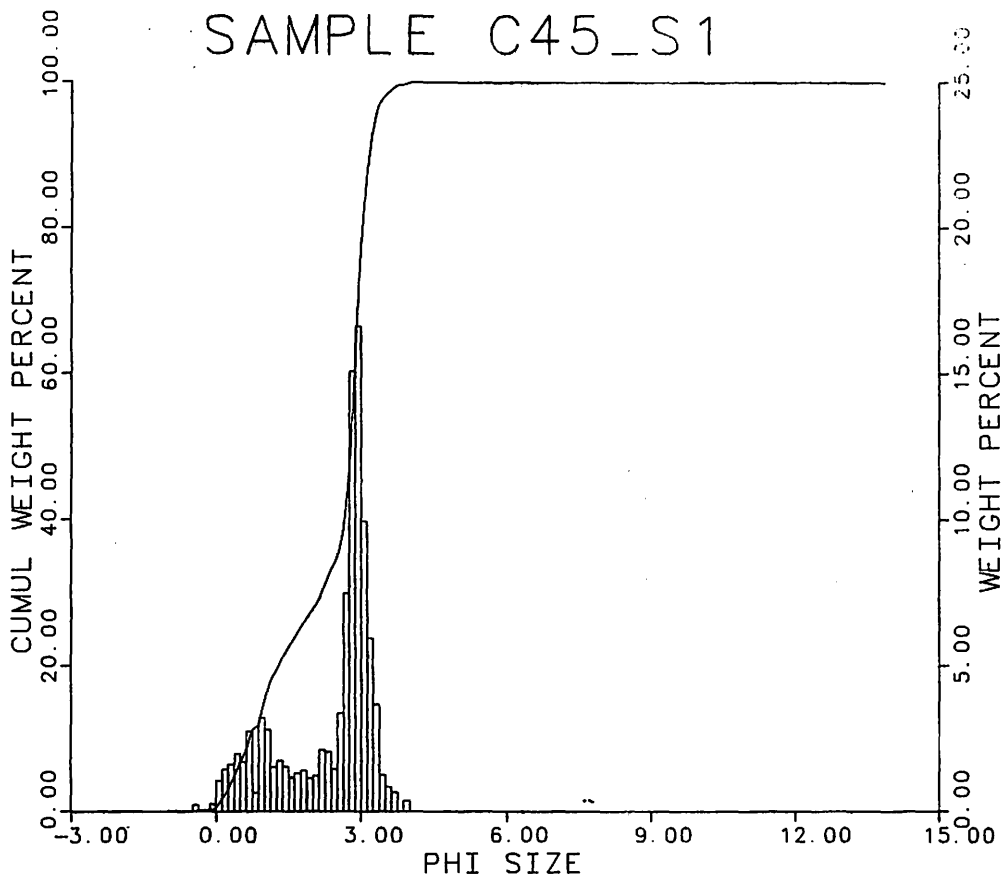
DATE: 4-6-88

## PROBABILITY CURVE



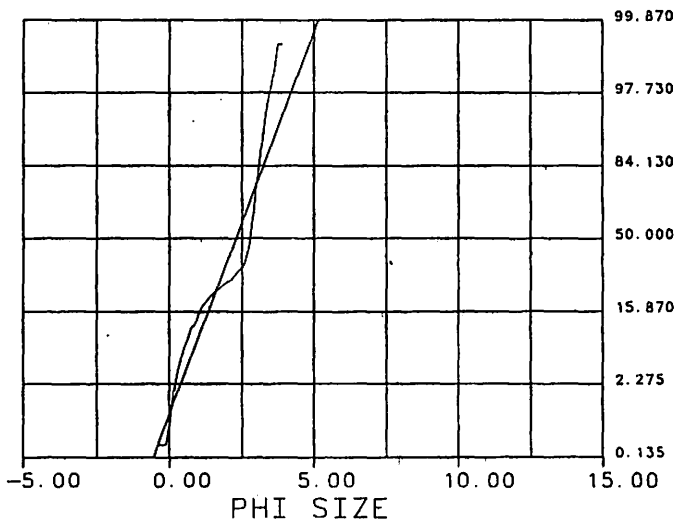
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C45\_S1



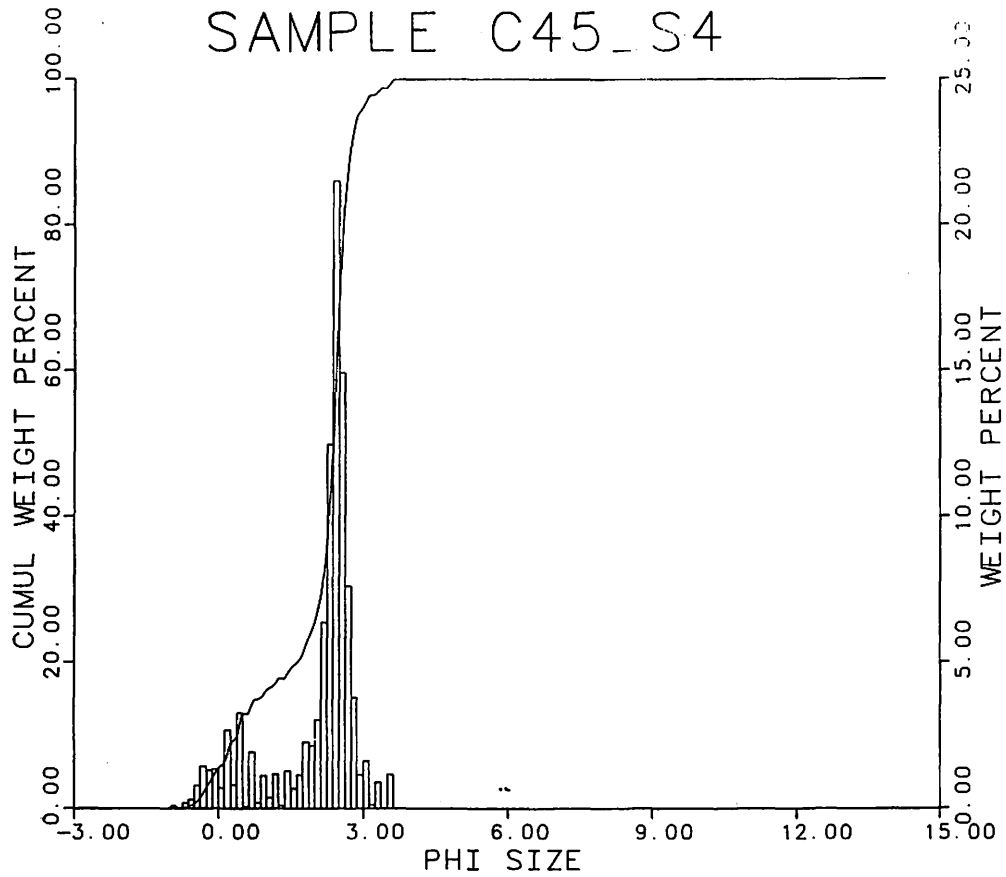
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	1.4
SAND	85.3
V-COARSE SAND	0.4
COARSE SAND	12.4
MEDIUM SAND	10.8
FINE SAND	42.3
V-FINE SAND	19.4
SILT	13.3
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.787
MEAN	2.305
STD. DEVIATION	0.952
INC. SKEWNESS	-0.674
INC. KURTOSIS	0.526
<b>Moment Measures</b>	
1st MOMENT	2.350
2nd MOMENT	0.951
3rd MOMENT	-1.035
4th MOMENT	2.790
DATE:	4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C45\_S4



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 7.4  
 SAND \_\_\_\_\_ 84.7  
   V-COARSE SAND - 4.6  
   COARSE SAND - 9.1  
   MEDIUM SAND - 7.7  
   FINE SAND - 60.0  
   V-FINE SAND - 3.2  
 SILT \_\_\_\_\_ 7.9  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

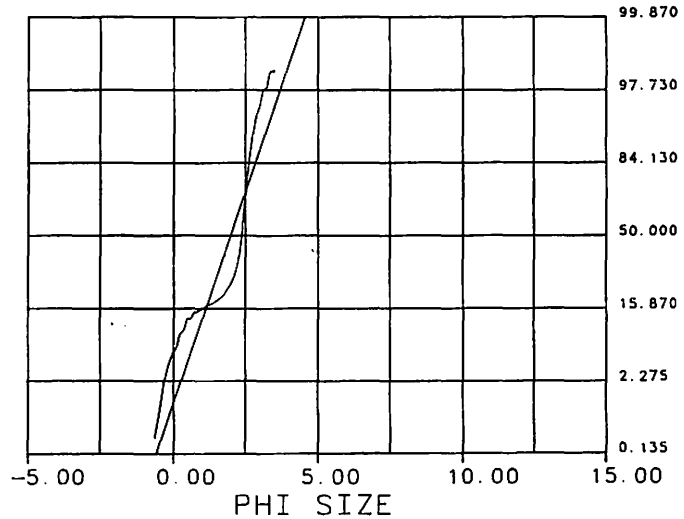
MEDIAN \_\_\_\_\_ 2.391  
 MEAN \_\_\_\_\_ 2.000  
 STD. DEVIATION - 0.855  
 INC. SKEWNESS - -0.690  
 INC. KURTOSIS - 0.686

### Moment Measures

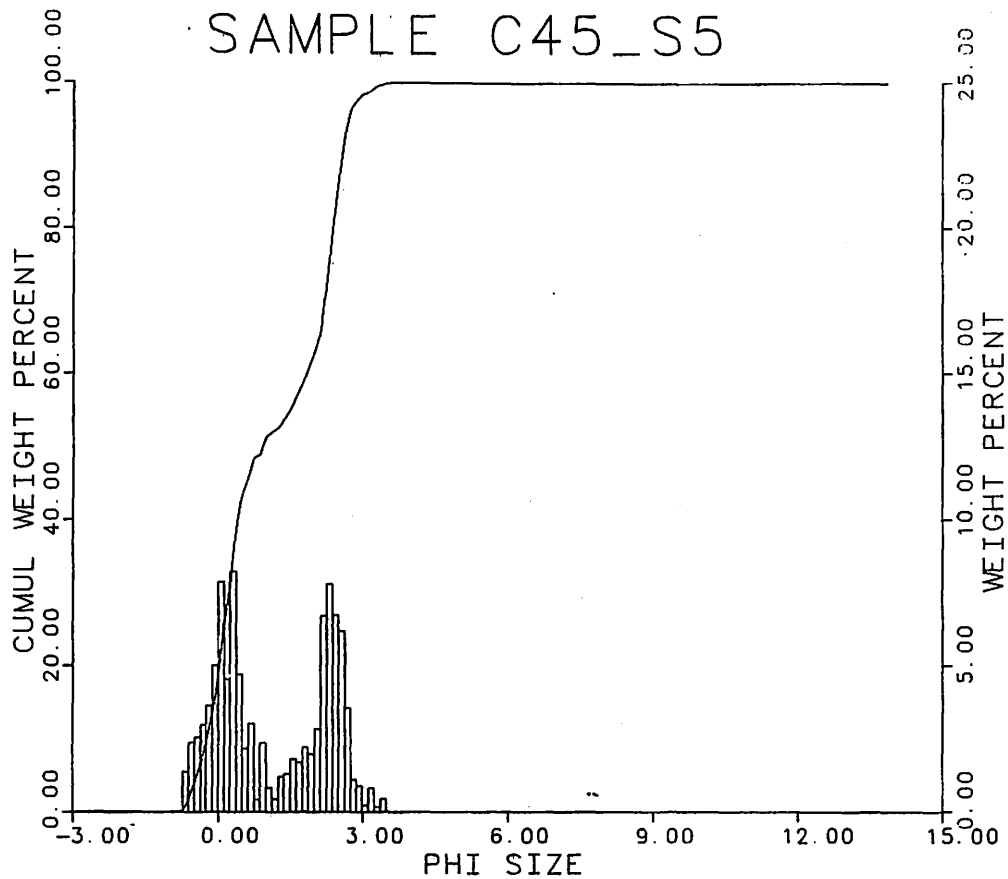
1st MOMENT \_\_\_\_\_ 2.049  
 2nd MOMENT \_\_\_\_\_ 0.897  
 3rd MOMENT \_\_\_\_\_ -1.432  
 4th MOMENT \_\_\_\_\_ 4.071

DATE: 4-6-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



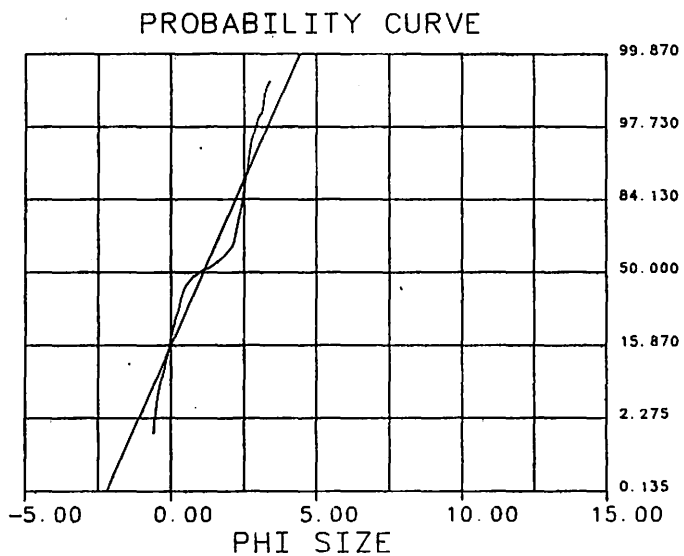
**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

**Gross Parameters (%)**  
 GRAVEL ----- 17.8  
 SAND ----- 76.1  
 V-COARSE SAND - 13.6  
 COARSE SAND ----- 25.3  
 MEDIUM SAND ----- 8.7  
 FINE SAND ----- 27.2  
 V-FINE SAND ----- 1.2  
 SILT ----- 6.1  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 0.936  
 MEAN ----- 1.113  
 STD. DEVIATION- 1.100  
 INC. SKEWNESS- 0.168  
 INC. KURTOSIS- 0.572

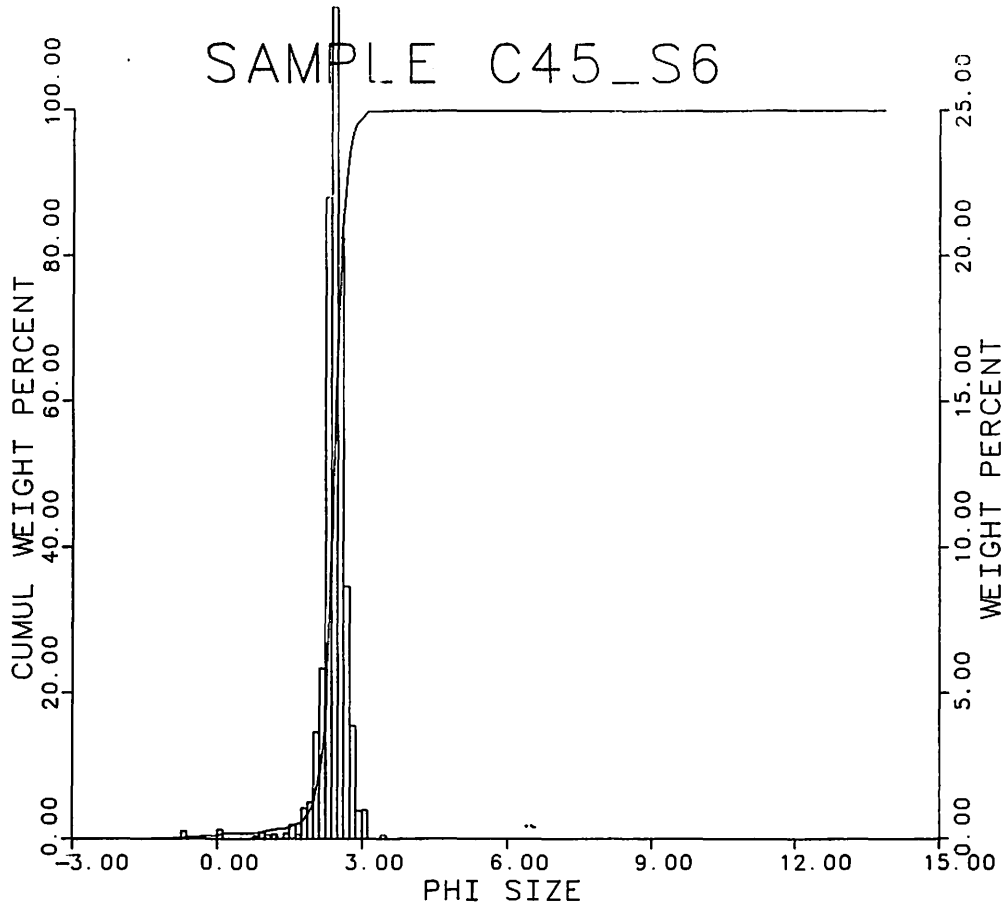
**Moment Measures**  
 1st MOMENT ----- 1.160  
 2nd MOMENT ----- 1.139  
 3rd MOMENT ----- 0.073  
 4th MOMENT ----- 1.466

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C45\_S6



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

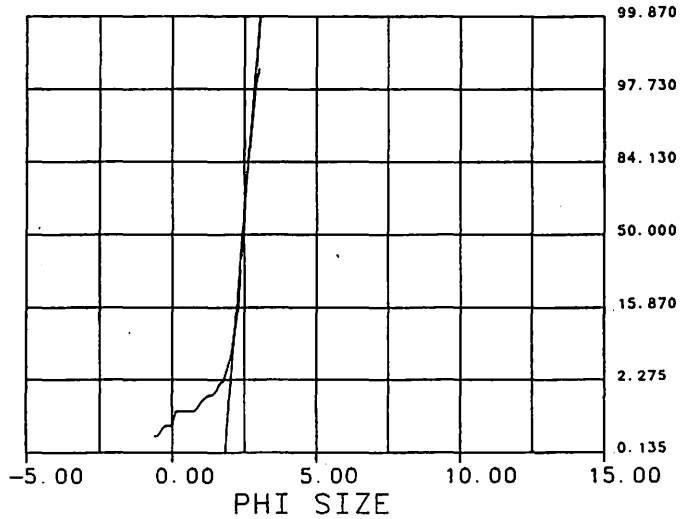
**Gross Parameters (%)**  
 GRAVEL ——— 0.0  
 SAND ——— 97.1  
   V-COARSE SAND — 0.4  
   COARSE SAND — 0.6  
   MEDIUM SAND — 3.4  
   FINE SAND — 91.6  
   V-FINE SAND — 1.1  
 SILT ——— 2.9  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 2.436  
 MEAN ——— 2.438  
 STD. DEVIATION — 0.205  
 INC. SKEWNESS — -0.040  
 INC. KURTOSIS — 0.194

**Moment Measures**  
 1st MOMENT ——— 2.406  
 2nd MOMENT ——— 0.341  
 3rd MOMENT ——— -4.339  
 4th MOMENT ——— 35.154

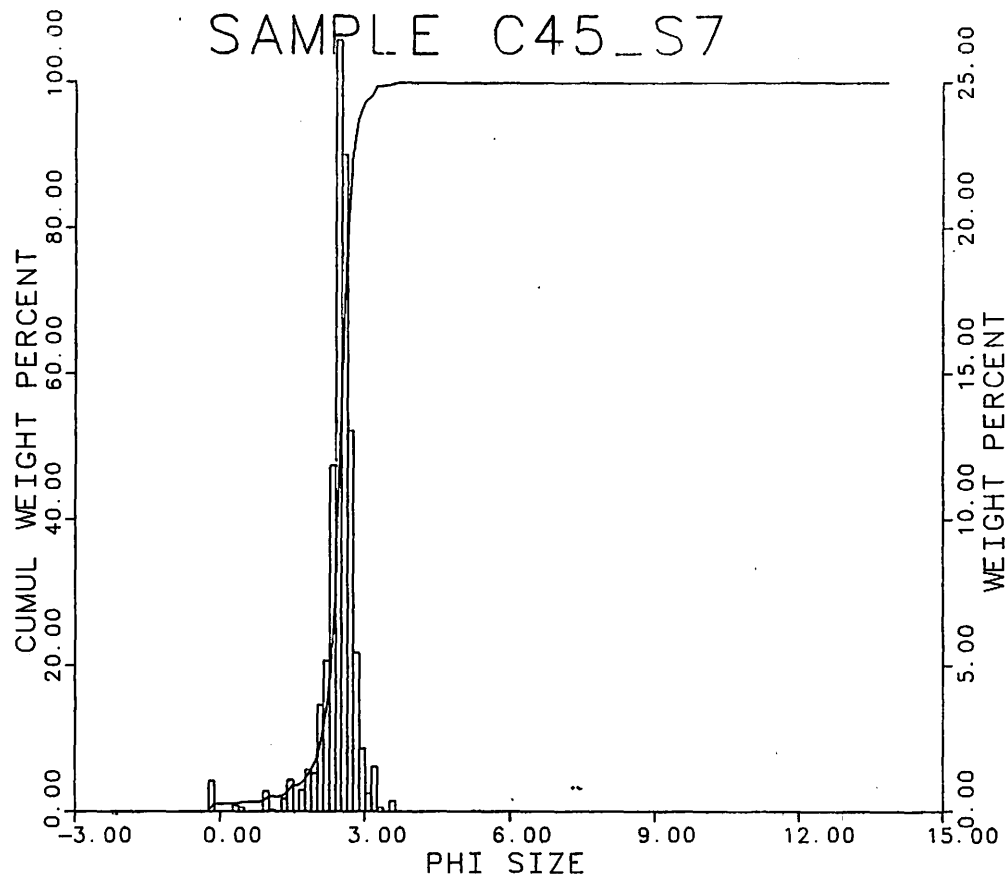
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev





**Sample Location**

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

**Gross Parameters (%)**

GRAVEL ——— 0.6  
 SAND ——— 94.1  
 V-COARSE SAND — 1.0  
 COARSE SAND ——— 0.9  
 MEDIUM SAND ——— 4.7  
 FINE SAND ——— 85.0  
 V-FINE SAND ——— 2.5  
 SILT ——— 5.3  
 CLAY ——— 0.0

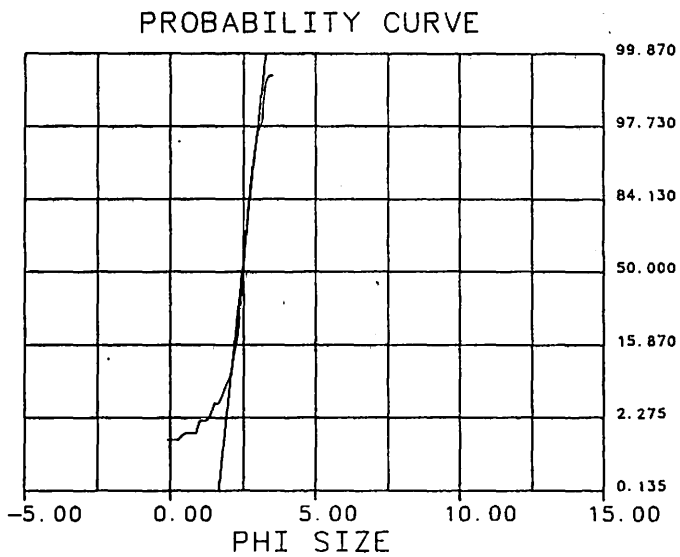
**Graphic Measures**

MEDIAN ——— 2.480  
 MEAN ——— 2.475  
 STD. DEVIATION — 0.272  
 INC. SKEWNESS — -0.149  
 INC. KURTOSIS — 0.263

**Moment Measures**

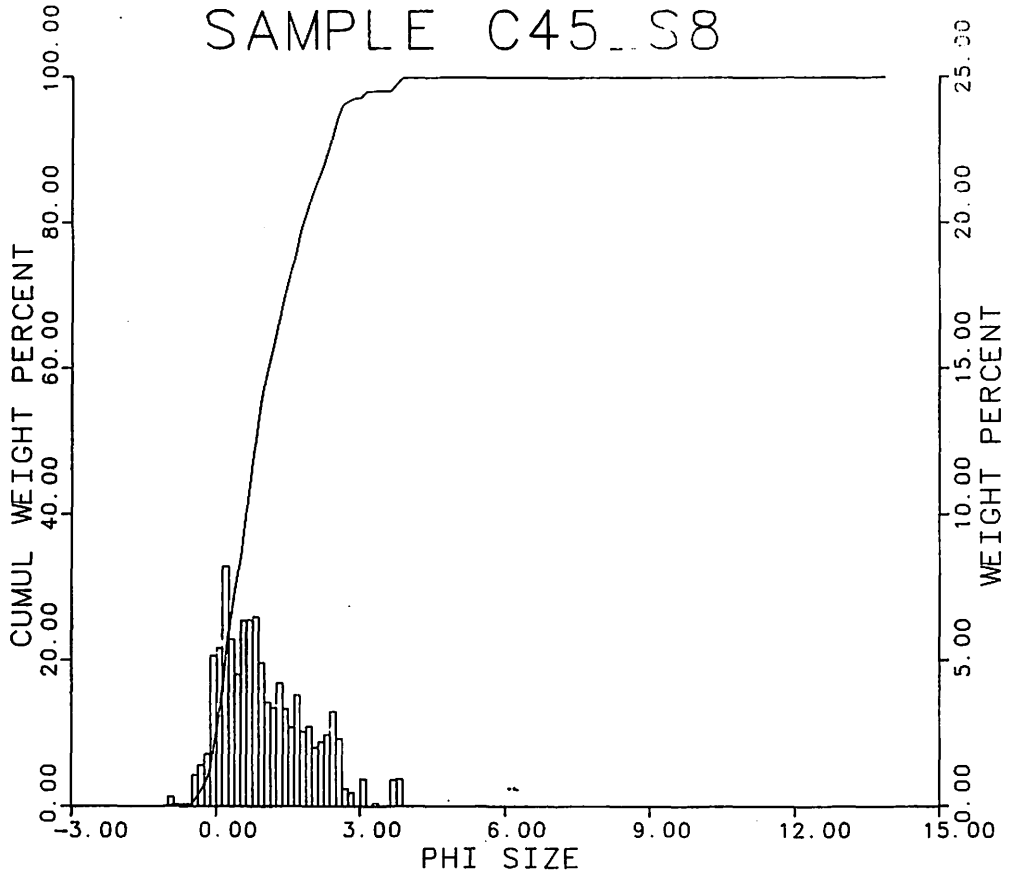
1st MOMENT ——— 2.427  
 2nd MOMENT ——— 0.427  
 3rd MOMENT ——— -3.116  
 4th MOMENT ——— 18.677

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C45\_S8



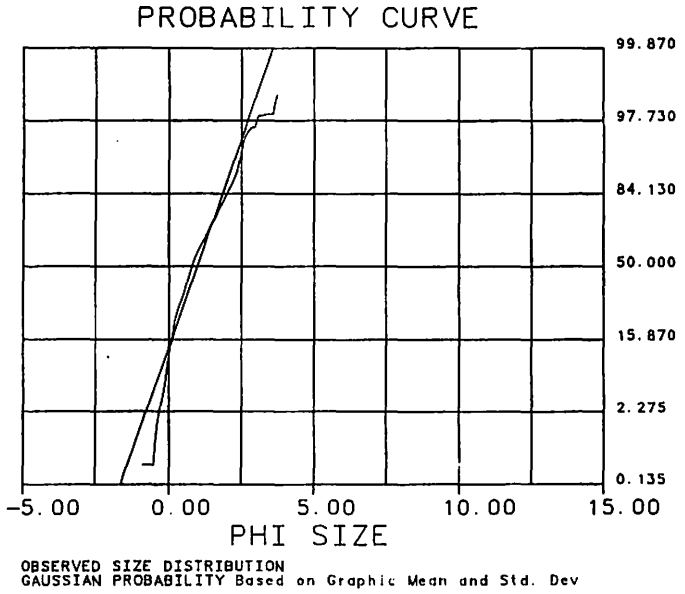
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 26.1  
 SAND \_\_\_\_\_ 68.1  
   V-COARSE SAND - 6.6  
   COARSE SAND    - 32.7  
   MEDIUM SAND   - 17.9  
   FINE SAND       - 9.0  
   V-FINE SAND    - 1.9  
 SILT \_\_\_\_\_ 5.8  
 CLAY \_\_\_\_\_ 0.0

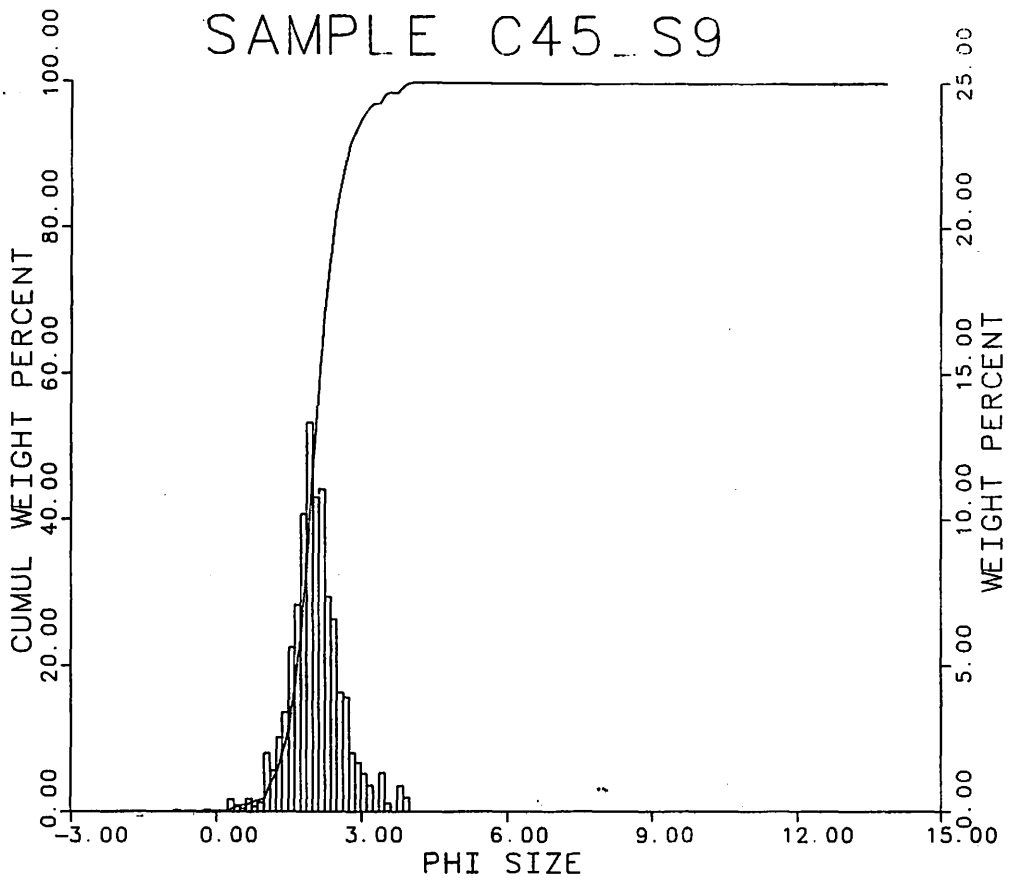
**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 0.822  
 MEAN \_\_\_\_\_ 0.988  
 STD. DEVIATION- 0.872  
 INC. SKEWNESS- 0.284  
 INC. KURTOSIS- 0.725

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.015  
 2nd MOMENT \_\_\_\_\_ 0.903  
 3rd MOMENT \_\_\_\_\_ 0.743  
 4th MOMENT \_\_\_\_\_ 3.143

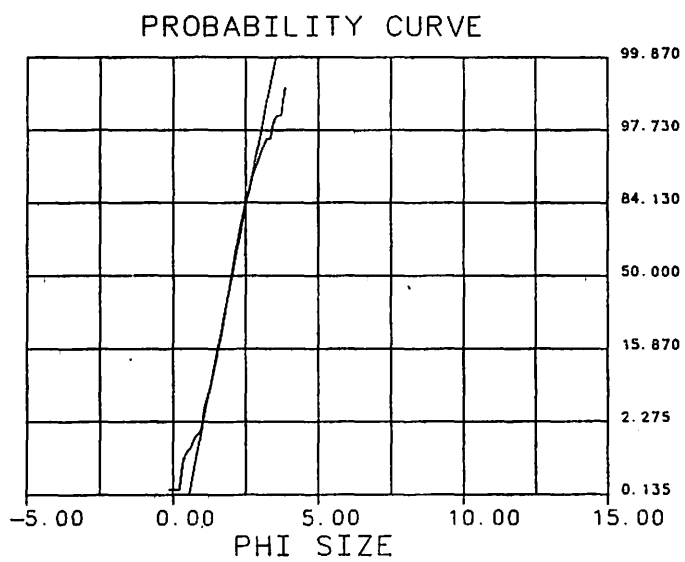
DATE: 4-6-88



# SAMPLE C45\_S9

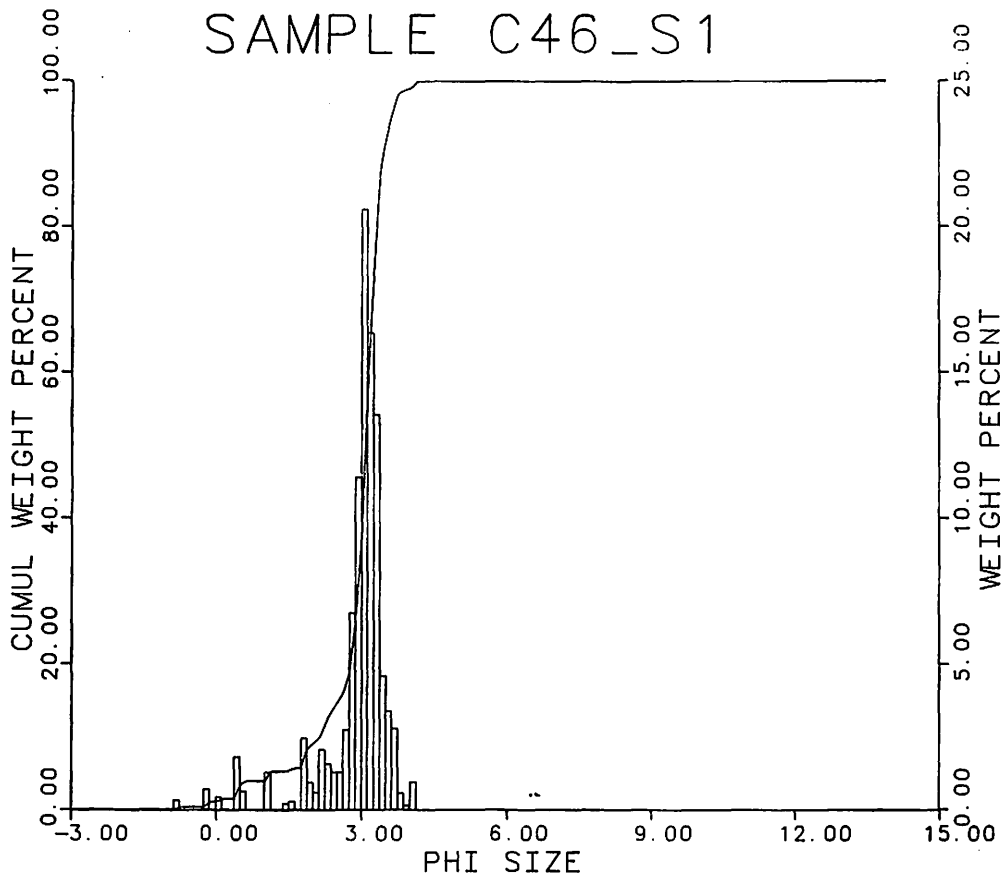


<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	0.0
SAND	94.5
V-COARSE SAND	0.2
COARSE SAND	1.6
MEDIUM SAND	43.1
FINE SAND	44.8
V-FINE SAND	4.8
SILT	5.5
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	2.030
MEAN	2.054
STD. DEVIATION	0.499
INC. SKEWNESS	0.090
INC. KURTOSIS	0.449
<b>Moment Measures</b>	
1st MOMENT	2.066
2nd MOMENT	0.549
3rd MOMENT	0.245
4th MOMENT	5.077
DATE:	4-6-88



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std Dev

# SAMPLE C46\_S1



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

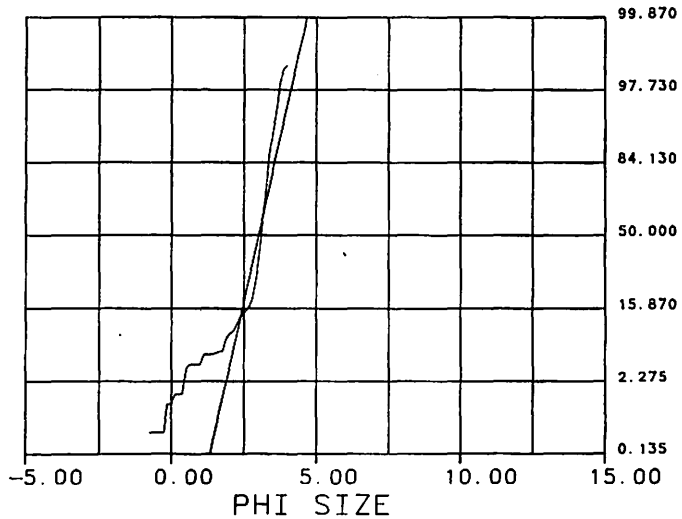
**Gross Parameters (%)**  
 GRAVEL ——— 1.5  
 SAND ——— 80.7  
   V-COARSE SAND — 0.9  
   COARSE SAND — 2.3  
   MEDIUM SAND — 4.2  
   FINE SAND — 22.7  
   V-FINE SAND — 50.6  
 SILT ——— 17.8  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 3.079  
 MEAN ——— 3.016  
 STD. DEVIATION — 0.558  
 INC. SKEWNESS — -0.422  
 INC. KURTOSIS — 0.492

**Moment Measures**  
 1st MOMENT ——— 2.904  
 2nd MOMENT ——— 0.720  
 3rd MOMENT ——— -2.474  
 4th MOMENT ——— 10.085

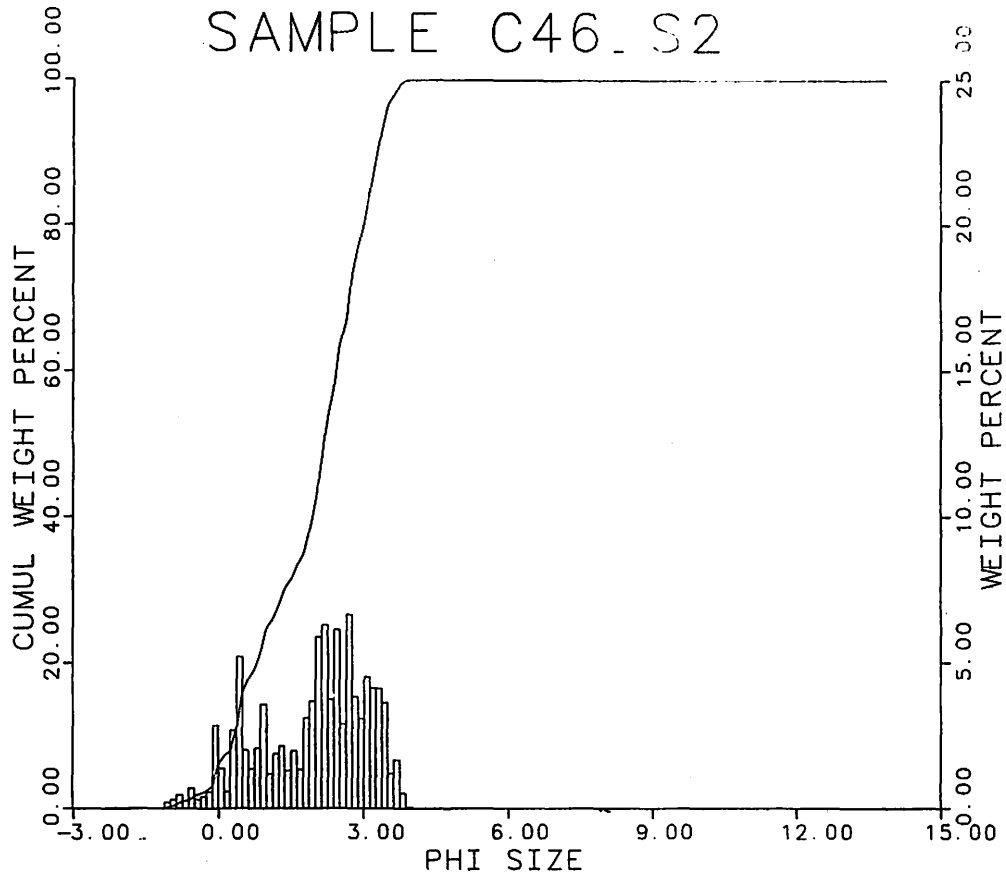
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46.S2



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

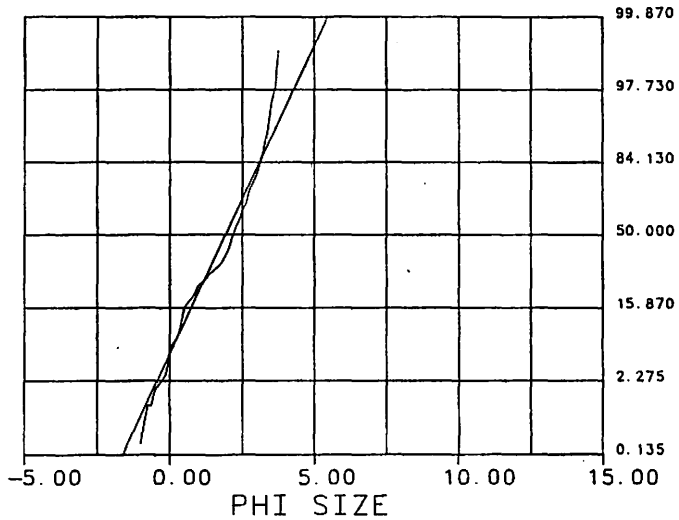
Gross Parameters (%)  
 GRAVEL ——— 6.3  
 SAND ——— 73.1  
   V-COARSE SAND — 4.1  
   COARSE SAND — 13.9  
   MEDIUM SAND — 12.2  
   FINE SAND — 28.3  
   V-FINE SAND — 14.6  
 SILT ——— 20.6  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 2.177  
 MEAN ——— 1.933  
 STD. DEVIATION — 1.175  
 INC. SKEWNESS — -0.277  
 INC. KURTOSIS — 0.597

Moment Measures  
 1st MOMENT ——— 1.958  
 2nd MOMENT ——— 1.111  
 3rd MOMENT ——— -0.522  
 4th MOMENT ——— 2.320

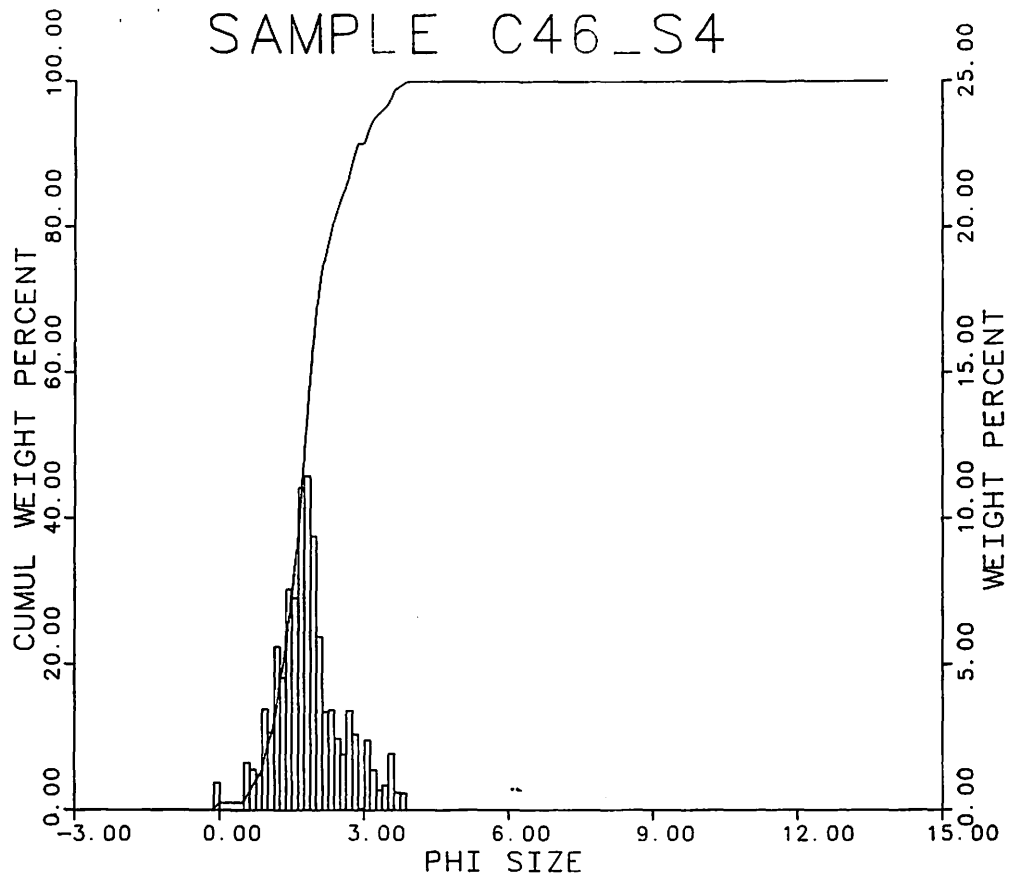
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46\_S4



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

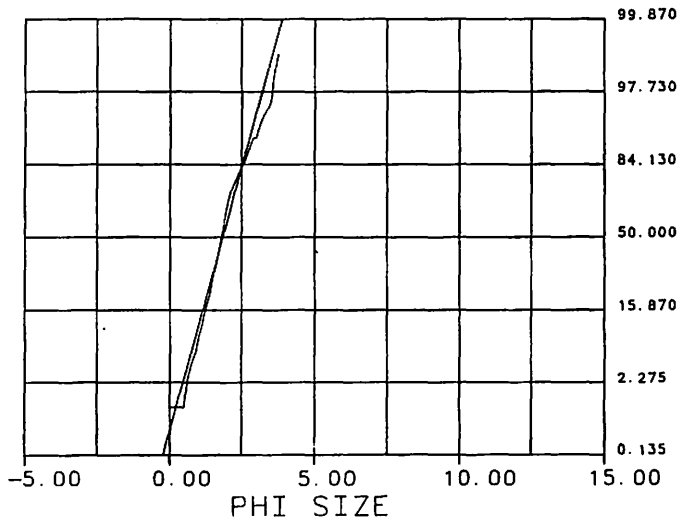
**Gross Parameters (%)**  
 GRAVEL ——— 0.4  
 SAND ——— 80.2  
   V-COARSE SAND — 0.8  
   COARSE SAND — 6.2  
   MEDIUM SAND — 47.8  
   FINE SAND — 18.6  
   V-FINE SAND — 6.8  
 SILT ——— 19.4  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.778  
 MEAN ——— 1.845  
 STD. DEVIATION — 0.684  
 INC. SKEWNESS — 0.187  
 INC. KURTOSIS — 0.620

**Moment Measures**  
 1st MOMENT ——— 1.850  
 2nd MOMENT ——— 0.691  
 3rd MOMENT ——— 0.497  
 4th MOMENT ——— 3.596

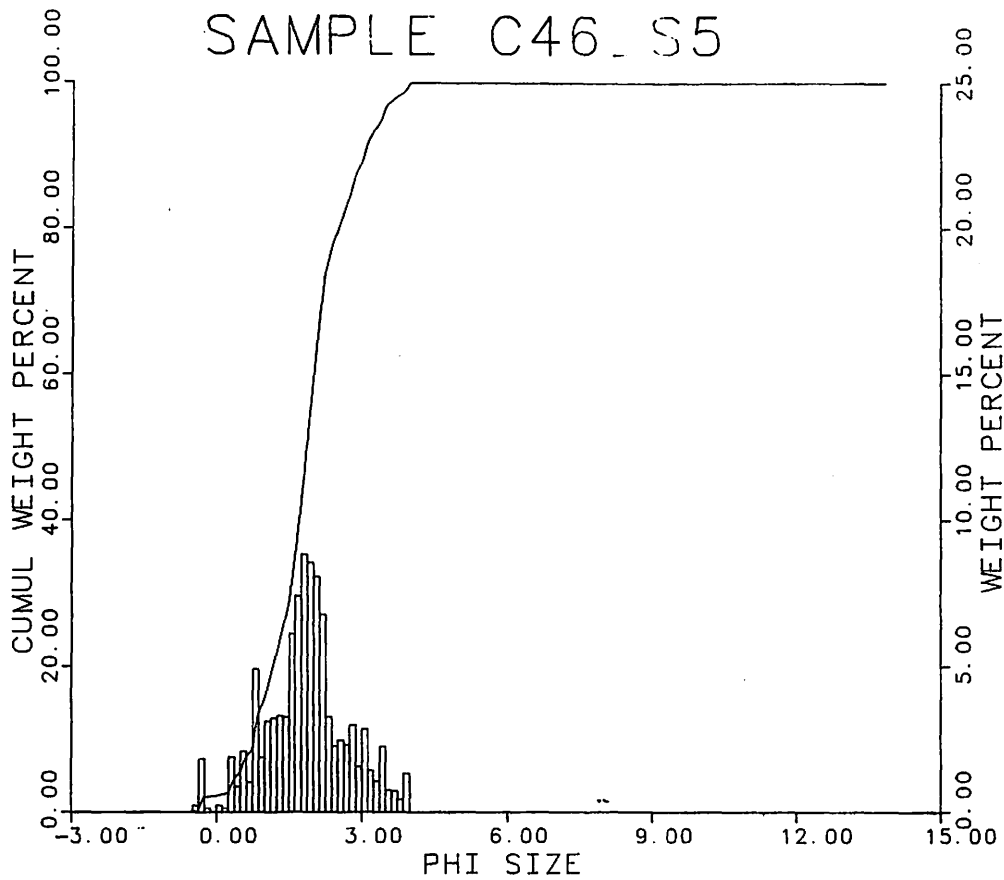
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46.S5



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

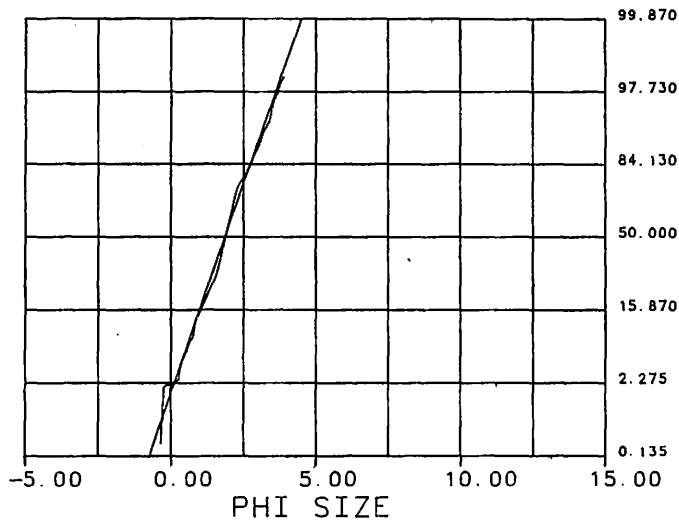
Gross Parameters (%)  
 GRAVEL ——— 2.1  
 SAND ——— 76.6  
 V-COARSE SAND — 1.7  
 COARSE SAND — 10.0  
 MEDIUM SAND — 33.7  
 FINE SAND — 22.8  
 V-FINE SAND — 8.4  
 SILT ——— 21.3  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 1.865  
 MEAN ——— 1.872  
 STD. DEVIATION — 0.872  
 INC. SKEWNESS — 0.027  
 INC. KURTOSIS — 0.704

Moment Measures  
 1st MOMENT ——— 1.864  
 2nd MOMENT ——— 0.851  
 3rd MOMENT ——— -0.008  
 4th MOMENT ——— 3.195

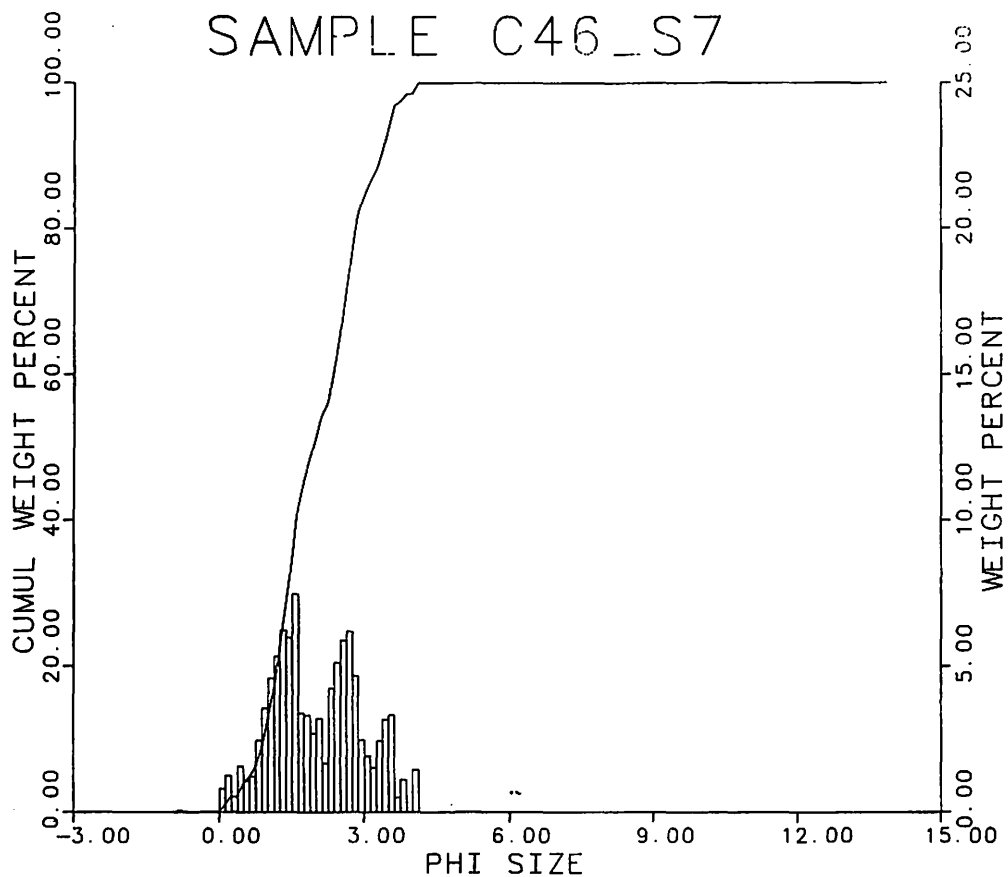
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46\_S7



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

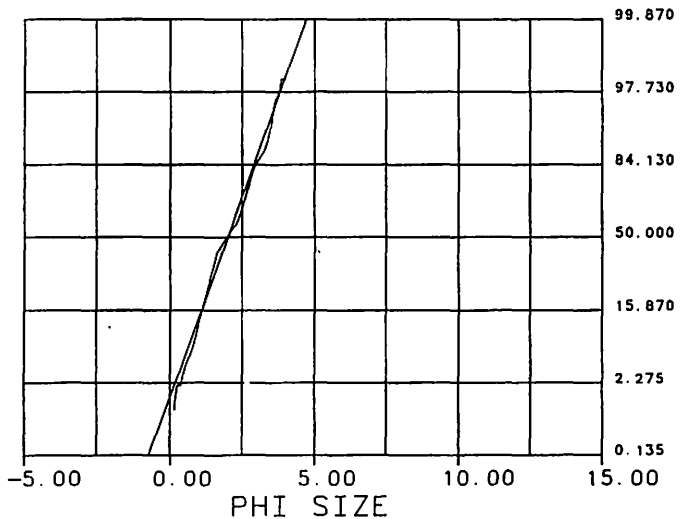
**Gross Parameters (%)**  
 GRAVEL ——— 0.4  
 SAND ——— 47.1  
 V-COARSE SAND — 0.0  
 COARSE SAND — 5.7  
 MEDIUM SAND — 18.7  
 FINE SAND — 16.0  
 V-FINE SAND — 6.7  
 SILT ——— 52.5  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.947  
 MEAN ——— 2.007  
 STD. DEVIATION — 0.906  
 INC. SKEWNESS — 0.101  
 INC. KURTOSIS — 0.550

**Moment Measures**  
 1st MOMENT ——— 2.025  
 2nd MOMENT ——— 0.913  
 3rd MOMENT ——— 0.133  
 4th MOMENT ——— 2.255

DATE: 4-6-88

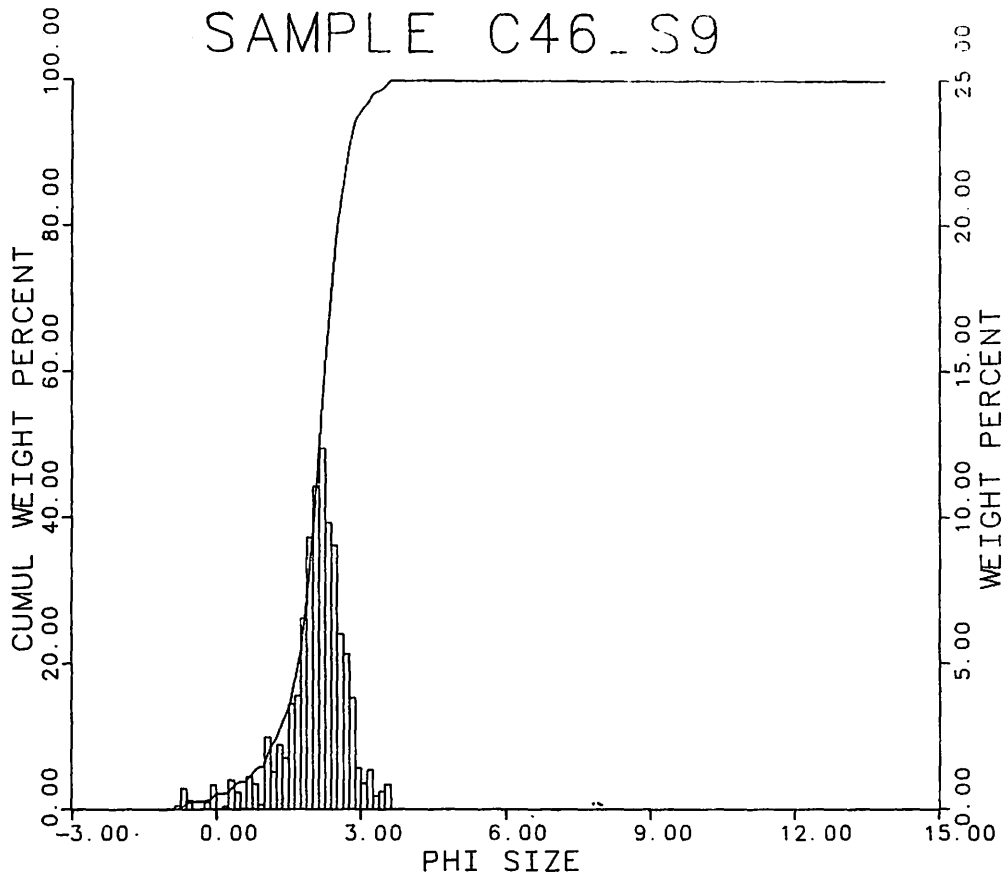
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C46\_S9



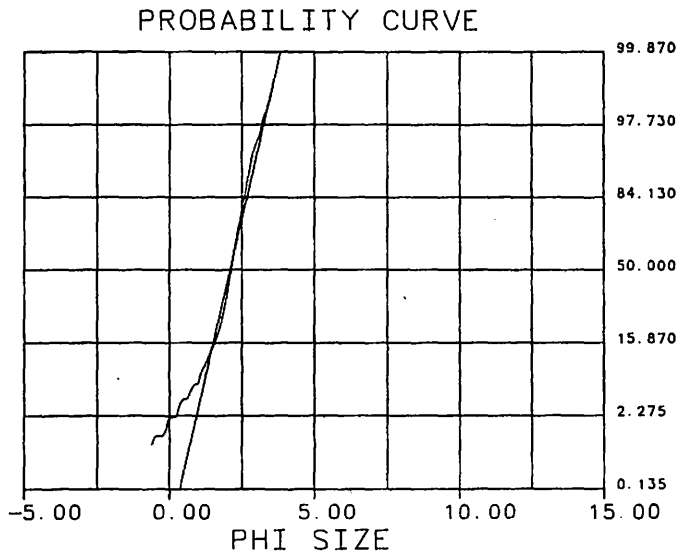
**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

**Gross Parameters (%)**  
 GRAVEL ——— 0.2  
 SAND ——— 84.2  
   V-COARSE SAND — 1.8  
   COARSE SAND — 3.2  
   MEDIUM SAND — 26.2  
   FINE SAND — 49.6  
   V-FINE SAND — 3.5  
 SILT ——— 15.6  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 2.145  
 MEAN ——— 2.108  
 STD. DEVIATION — 0.581  
 INC. SKEWNESS — -0.194  
 INC. KURTOSIS — 0.523

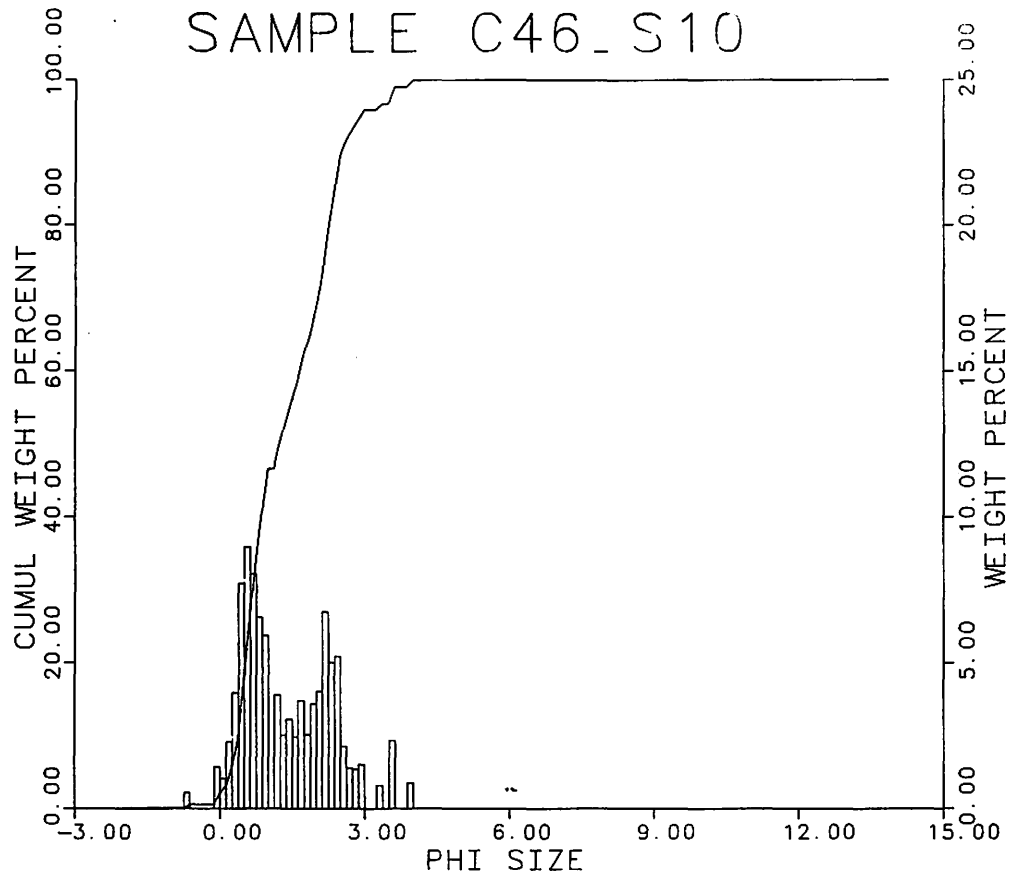
**Moment Measures**  
 1st MOMENT ——— 2.059  
 2nd MOMENT ——— 0.665  
 3rd MOMENT ——— -1.283  
 4th MOMENT ——— 6.284

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46\_S10



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

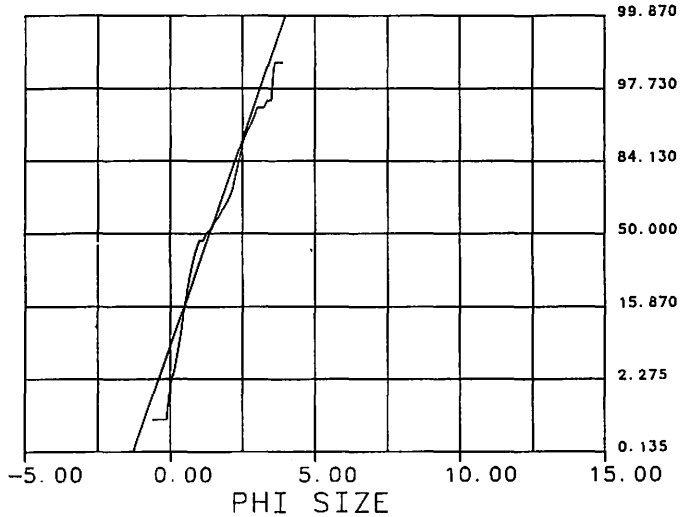
**Gross Parameters (%)**  
 GRAVEL ——— 1.3  
 SAND ——— 78.7  
   V-COARSE SAND — 1.5  
   COARSE SAND — 35.2  
   MEDIUM SAND — 17.3  
   FINE SAND — 21.6  
   V-FINE SAND — 3.2  
 SILT ——— 20.0  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.233  
 MEAN ——— 1.361  
 STD. DEVIATION — 0.877  
 INC. SKEWNESS — 0.230  
 INC. KURTOSIS — 0.573

**Moment Measures**  
 1st MOMENT ——— 1.398  
 2nd MOMENT ——— 0.923  
 3rd MOMENT ——— 0.465  
 4th MOMENT ——— 2.452

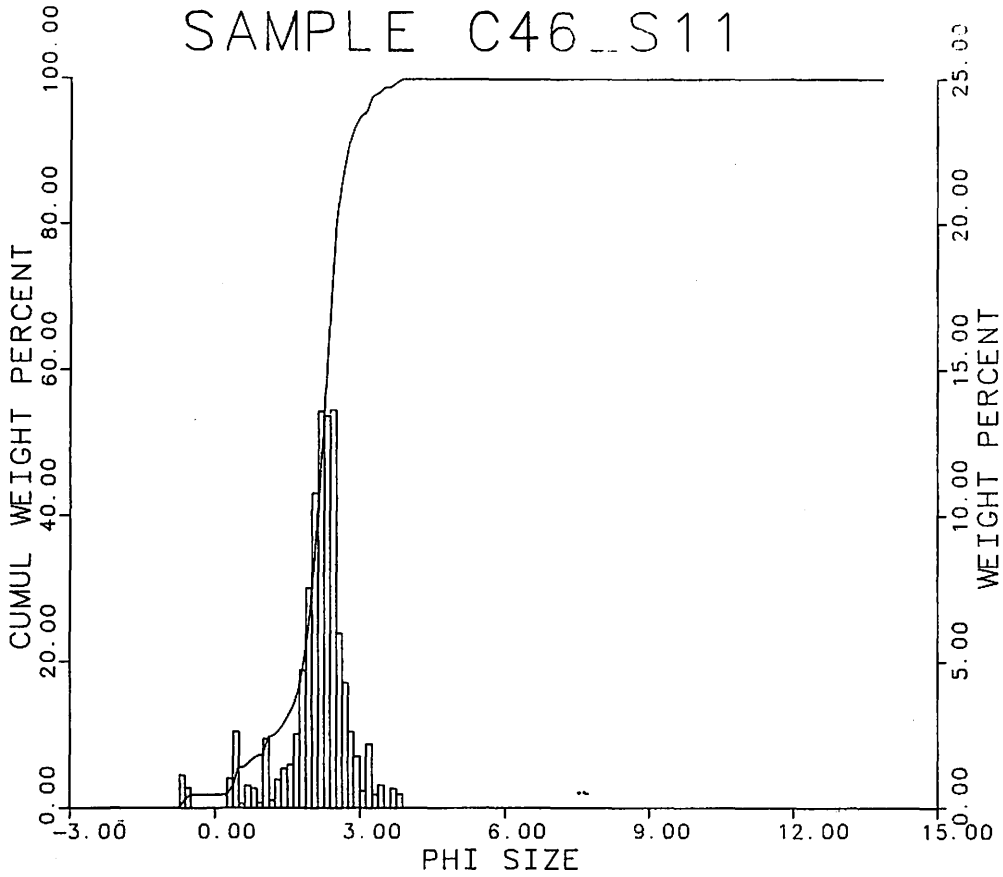
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C46\_S11



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

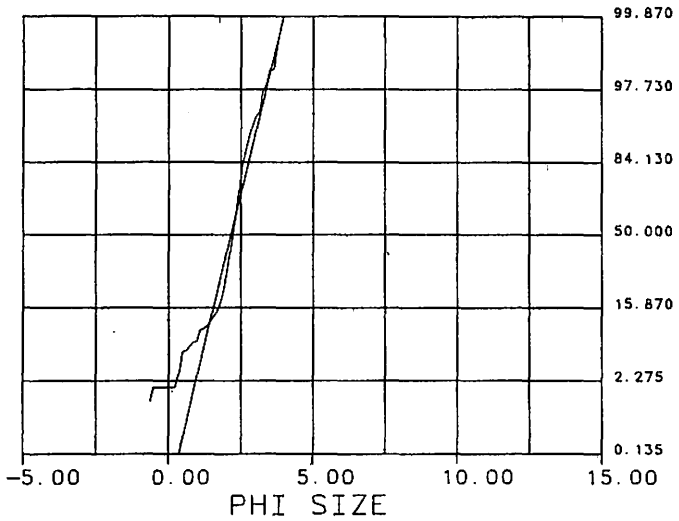
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 95.6  
 V-COARSE SAND - 1.8  
 COARSE SAND \_\_\_\_\_ 5.2  
 MEDIUM SAND \_\_\_\_\_ 20.3  
 FINE SAND \_\_\_\_\_ 63.2  
 V-FINE SAND \_\_\_\_\_ 5.0  
 SILT \_\_\_\_\_ 4.3  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.222  
 MEAN \_\_\_\_\_ 2.179  
 STD. DEVIATION \_\_\_\_\_ 0.603  
 INC. SKEWNESS \_\_\_\_\_ -0.256  
 INC. KURTOSIS \_\_\_\_\_ 0.636

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 2.108  
 2nd MOMENT \_\_\_\_\_ 0.703  
 3rd MOMENT \_\_\_\_\_ -1.470  
 4th MOMENT \_\_\_\_\_ 6.798

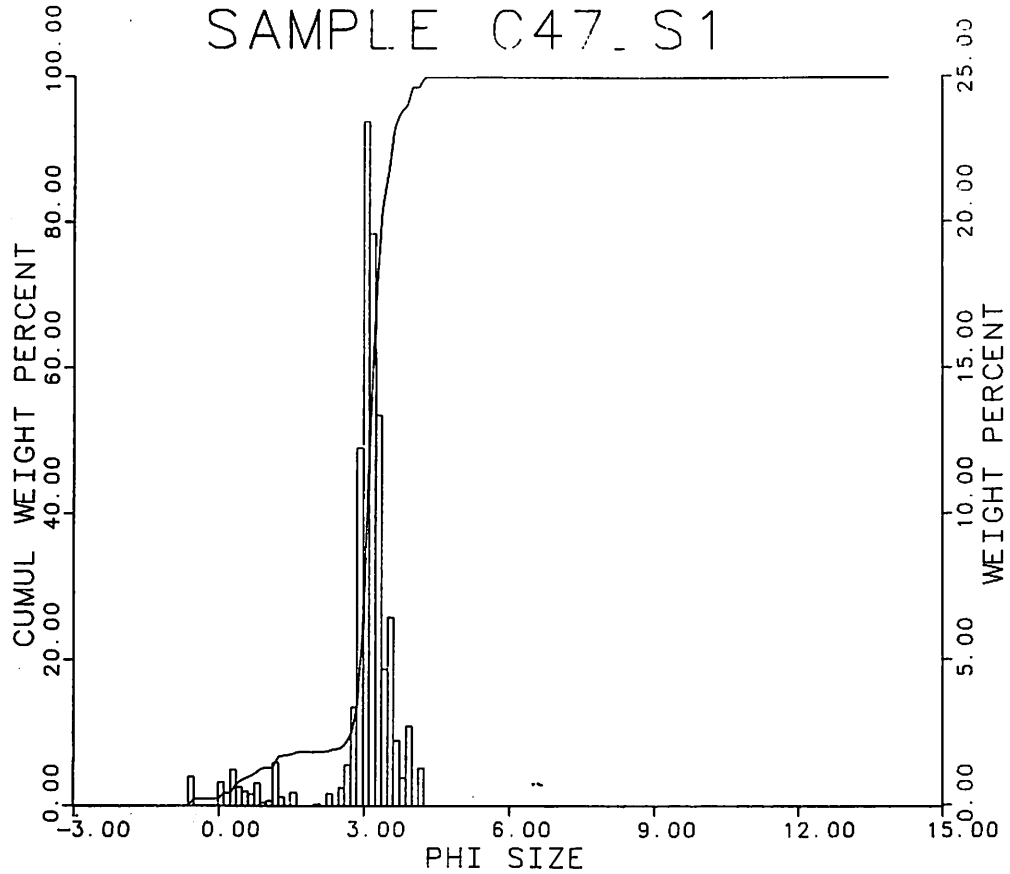
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C47.S1



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 1.0  
 SAND \_\_\_\_\_ 85.2  
 V-COARSE SAND - 0.8  
 COARSE SAND \_\_\_\_\_ 3.6  
 MEDIUM SAND \_\_\_\_\_ 1.9  
 FINE SAND \_\_\_\_\_ 15.5  
 V-FINE SAND \_\_\_\_\_ 63.3  
 SILT \_\_\_\_\_ 13.8  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

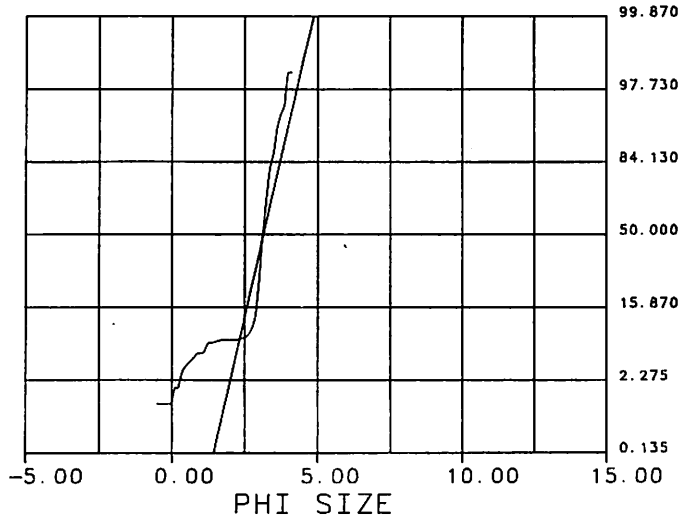
MEDIAN \_\_\_\_\_ 3.133  
 MEAN \_\_\_\_\_ 3.157  
 STD. DEVIATION- 0.570  
 INC. SKEWNESS- -0.219  
 INC. KURTOSIS- 0.569

### Moment Measures

1st MOMENT \_\_\_\_\_ 3.008  
 2nd MOMENT \_\_\_\_\_ 0.765  
 3rd MOMENT \_\_\_\_\_ -2.744  
 4th MOMENT \_\_\_\_\_ 11.105

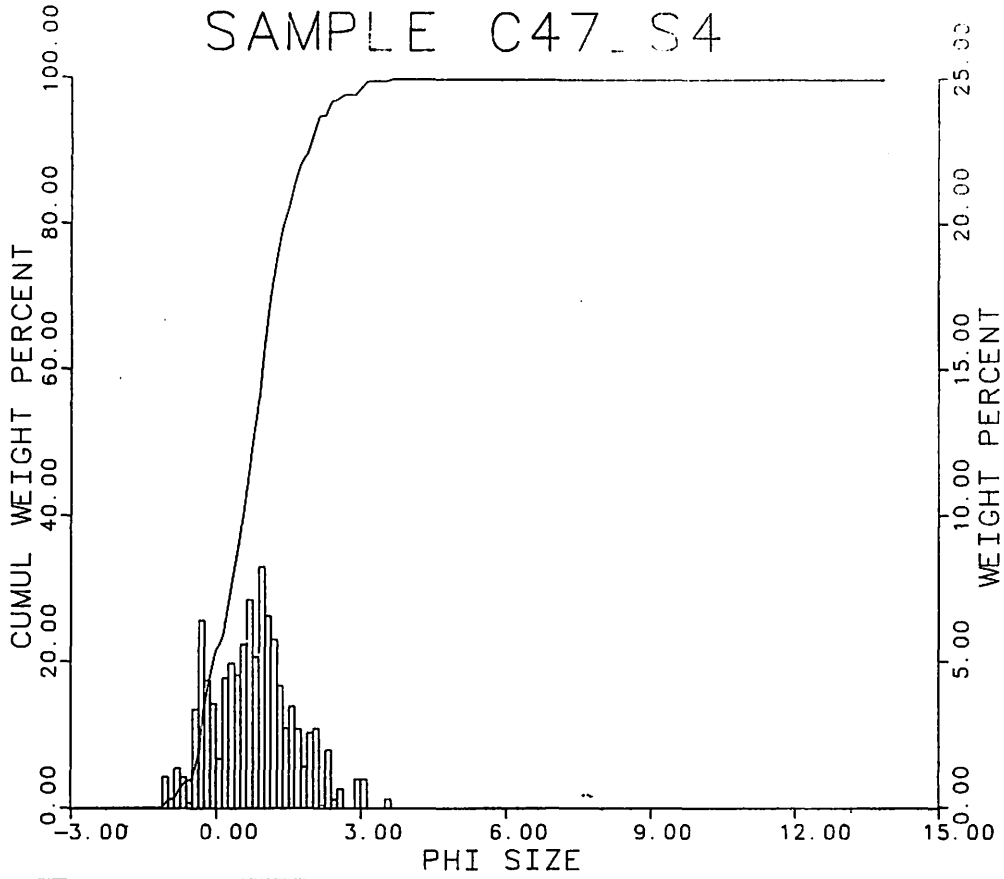
DATE: 4-6-88

### PROBABILITY CURVE



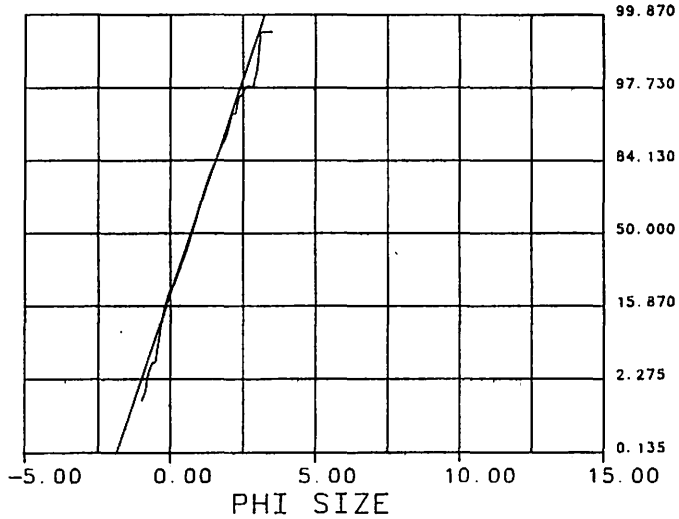
OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev.

# SAMPLE C47\_S4



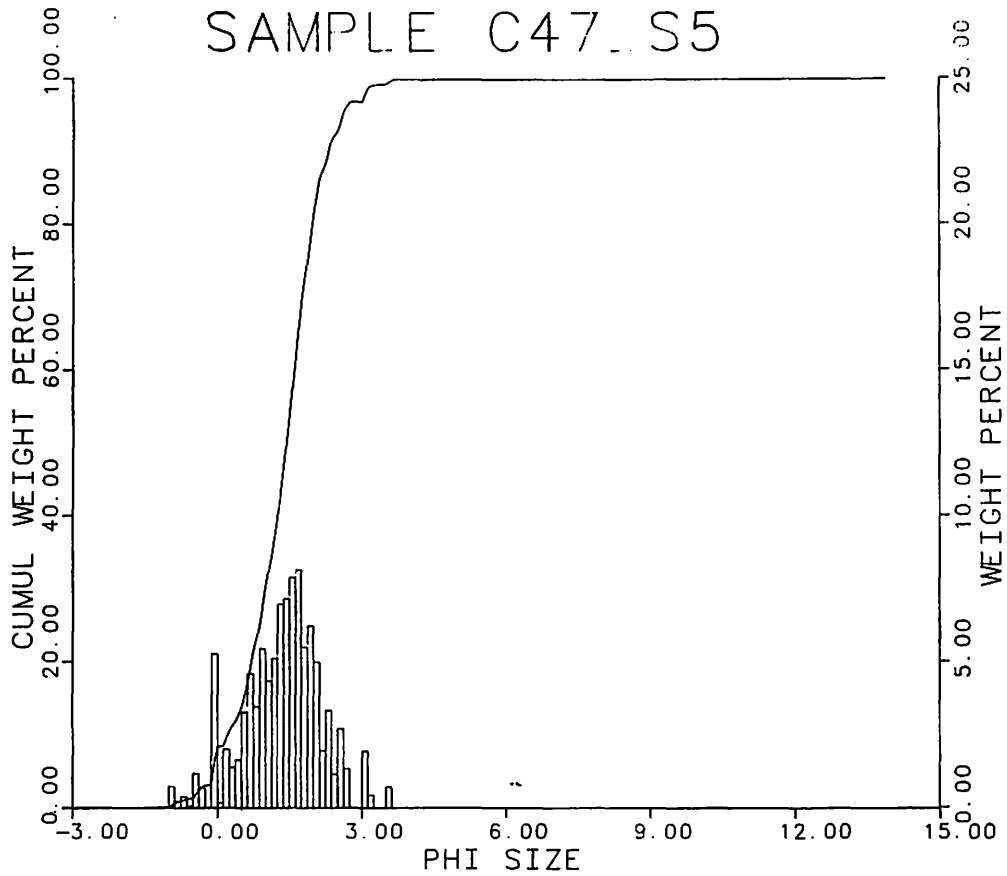
<b>Sample Location</b>	
LATITUDE	0-0-0
LONGITUDE	0-0-0
DEPTH (m)	0.00
<b>Gross Parameters (%)</b>	
GRAVEL	14.9
SAND	59.7
V-COARSE SAND	12.3
COARSE SAND	25.1
MEDIUM SAND	17.6
FINE SAND	4.0
V-FINE SAND	0.8
SILT	25.4
CLAY	0.0
<b>Graphic Measures</b>	
MEDIAN	0.759
MEAN	0.715
STD. DEVIATION	0.848
INC. SKEWNESS	0.015
INC. KURTOSIS	0.949
<b>Moment Measures</b>	
1st MOMENT	0.763
2nd MOMENT	0.840
3rd MOMENT	0.339
4th MOMENT	3.098
DATE:	4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C47.S5



**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

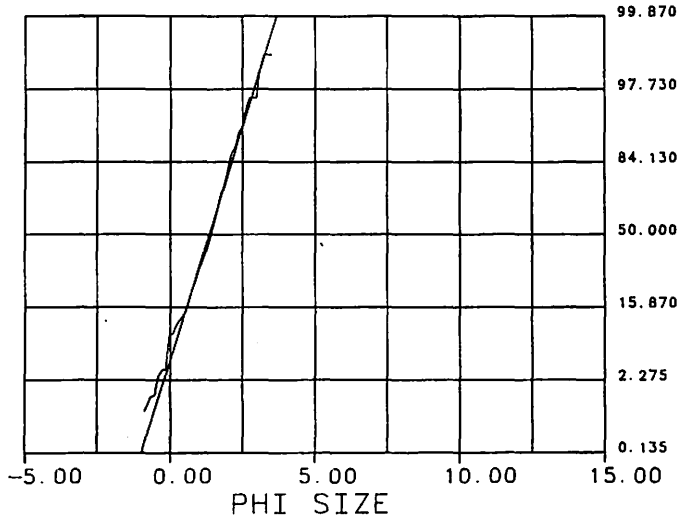
**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 1.5  
 SAND \_\_\_\_\_ 96.6  
   V-COARSE SAND - 8.1  
   COARSE SAND   - 21.1  
   MEDIUM SAND   - 49.5  
   FINE SAND       - 14.9  
   V-FINE SAND   - 2.9  
 SILT \_\_\_\_\_ 1.9  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 1.434  
 MEAN \_\_\_\_\_ 1.363  
 STD. DEVIATION- 0.772  
 INC. SKEWNESS - -0.138  
 INC. KURTOSIS - 0.727

**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.356  
 2nd MOMENT \_\_\_\_\_ 0.802  
 3rd MOMENT \_\_\_\_\_ -0.241  
 4th MOMENT \_\_\_\_\_ 3.233

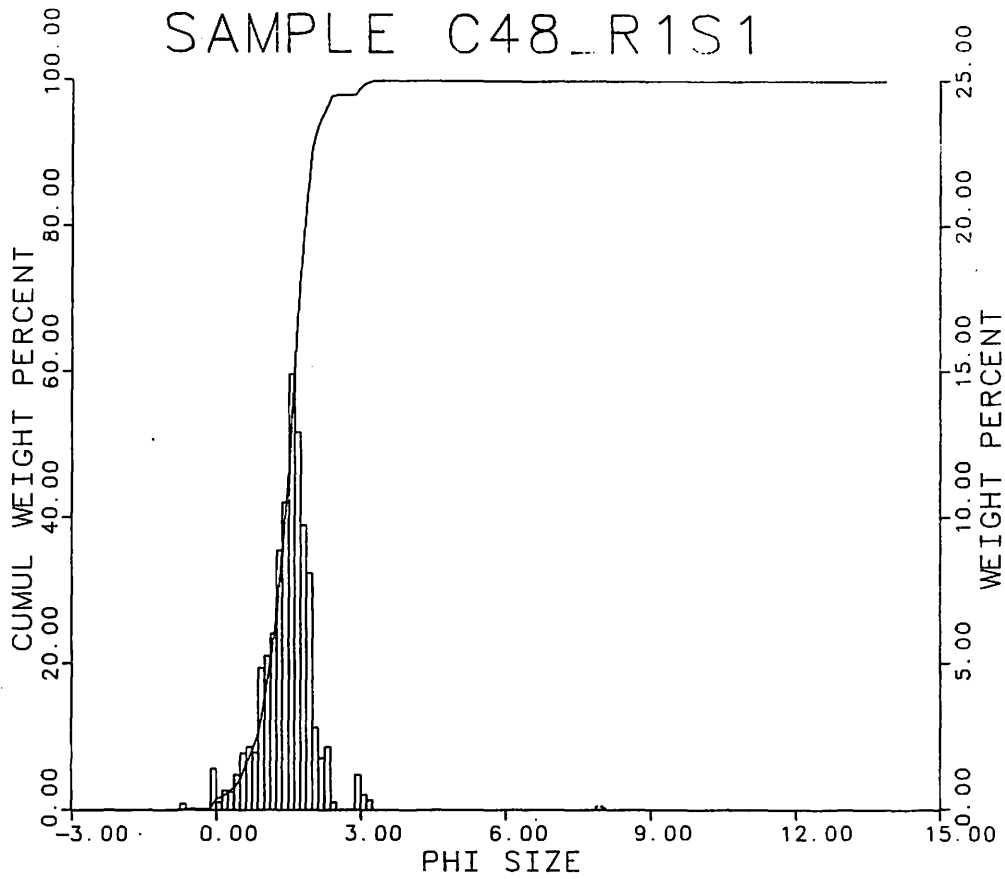
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C48\_R1S1



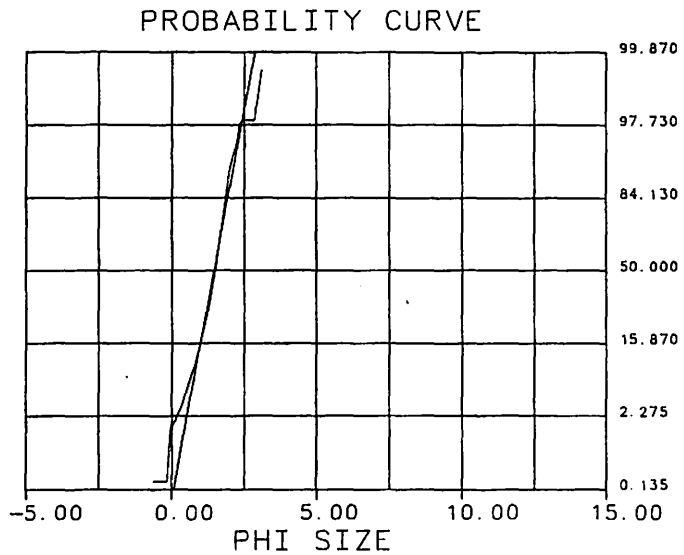
**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

**Gross Parameters (%)**  
 GRAVEL ----- 1.3  
 SAND ----- 97.4  
   V-COARSE SAND - 1.5  
   COARSE SAND --- 13.1  
   MEDIUM SAND --- 74.2  
   FINE SAND ----- 7.8  
   V-FINE SAND --- 0.8  
 SILT ----- 1.3  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 1.537  
 MEAN ----- 1.484  
 STD. DEVIATION-- 0.465  
 INC. SKEWNESS-- -0.190  
 INC. KURTOSIS-- 0.531

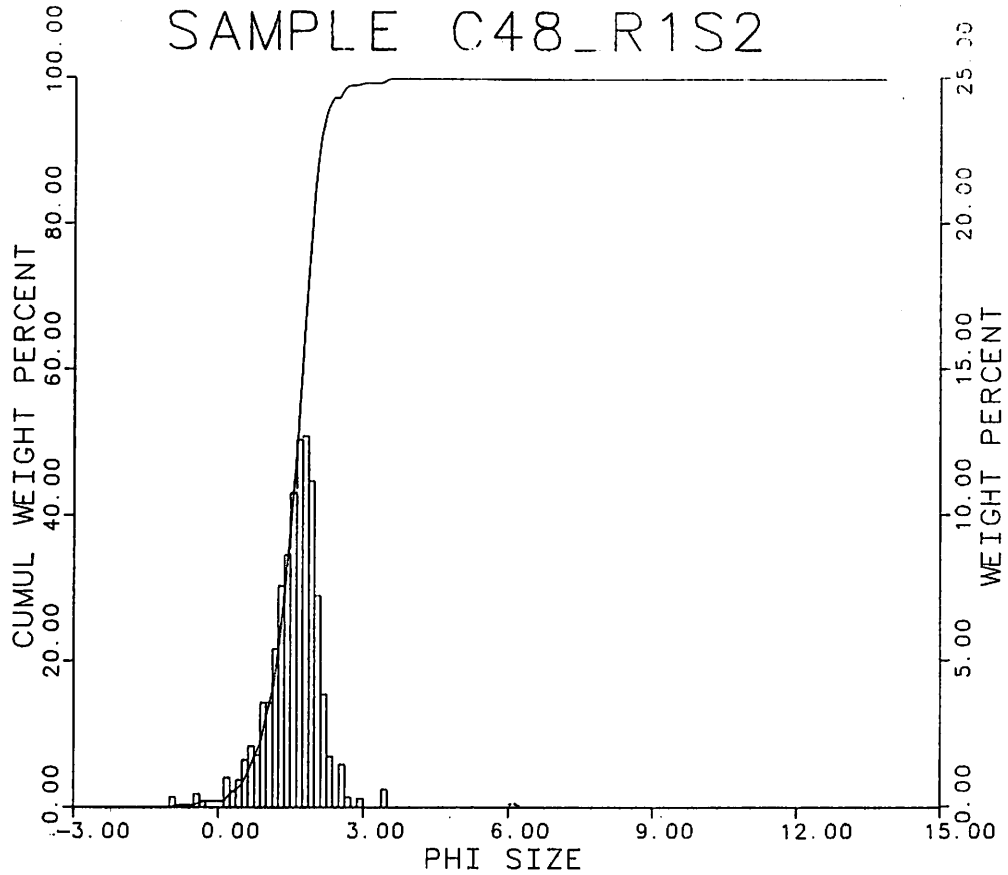
**Moment Measures**  
 1st MOMENT ----- 1.479  
 2nd MOMENT ----- 0.511  
 3rd MOMENT ----- -0.347  
 4th MOMENT ----- 4.909

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C48\_R1S2



**Sample Location**  
 LATITUDE----- 0-0-0  
 LONGITUDE----- 0-0-0  
 DEPTH (m)----- 0.00

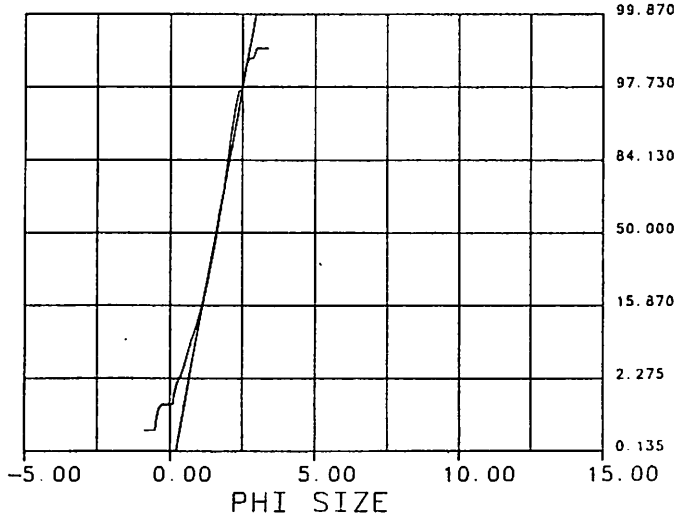
**Gross Parameters (%)**  
 GRAVEL----- 0.4  
 SAND----- 97.4  
 V-COARSE SAND - 0.9  
 COARSE SAND --- 11.1  
 MEDIUM SAND --- 70.5  
 FINE SAND ---- 14.4  
 V-FINE SAND --- 0.6  
 SILT----- 2.2  
 CLAY----- 0.0

**Graphic Measures**  
 MEDIAN----- 1.643  
 MEAN----- 1.588  
 STD. DEVIATION- 0.458  
 INC. SKEWNESS-- -0.229  
 INC. KURTOSIS-- 0.483

**Moment Measures**  
 1st MOMENT----- 1.570  
 2nd MOMENT----- 0.520  
 3rd MOMENT----- -0.762  
 4th MOMENT----- 6.010

DATE 4-6-88

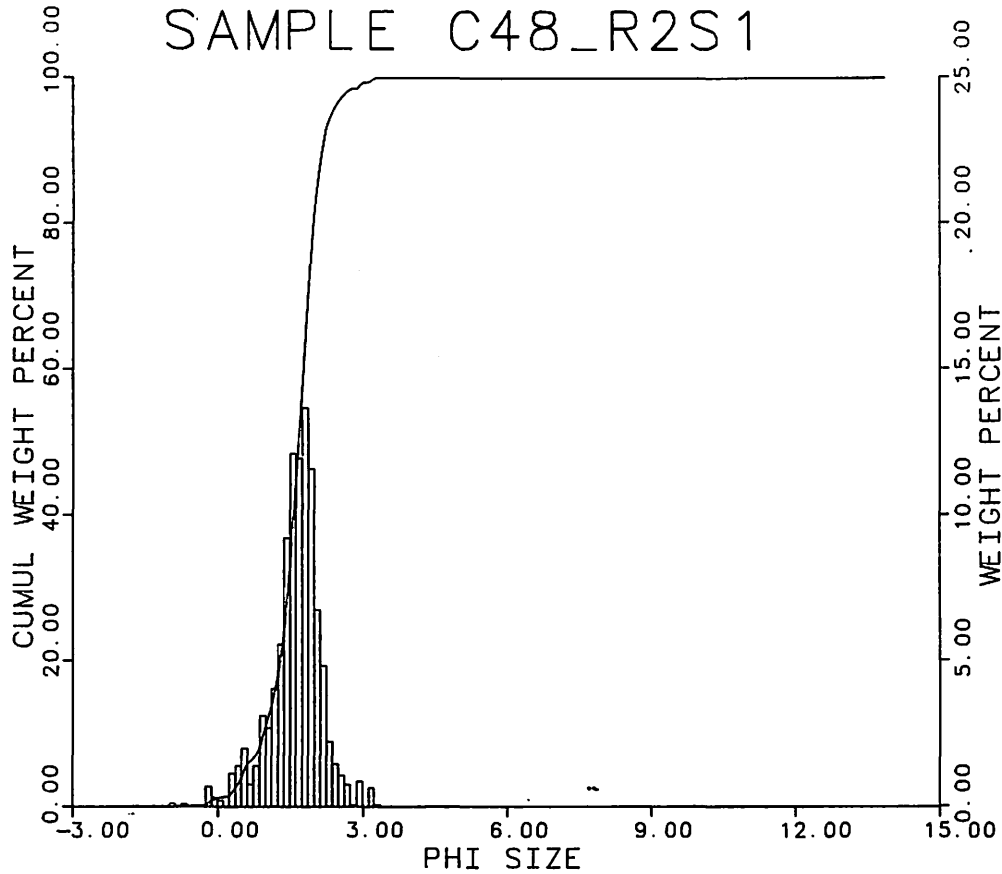
## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev



# SAMPLE C48\_R2S1



**Sample Location**  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

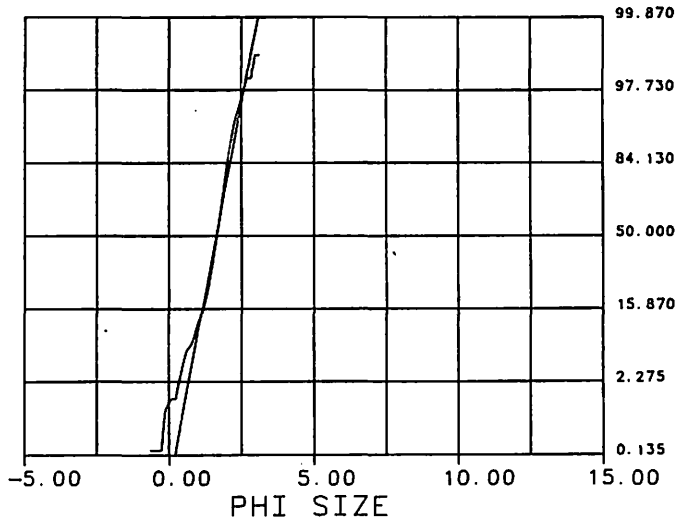
**Gross Parameters (%)**  
 GRAVEL ——— 0.3  
 SAND ——— 97.8  
   V-COARSE SAND — 1.1  
   COARSE SAND — 9.6  
   MEDIUM SAND — 69.1  
   FINE SAND — 17.4  
   V-FINE SAND — 0.6  
 SILT ——— 1.9  
 CLAY ——— 0.0

**Graphic Measures**  
 MEDIAN ——— 1.683  
 MEAN ——— 1.642  
 STD. DEVIATION — 0.481  
 INC. SKEWNESS — -0.194  
 INC. KURTOSIS — 0.538

**Moment Measures**  
 1st MOMENT ——— 1.626  
 2nd MOMENT ——— 0.522  
 3rd MOMENT ——— -0.683  
 4th MOMENT ——— 5.060

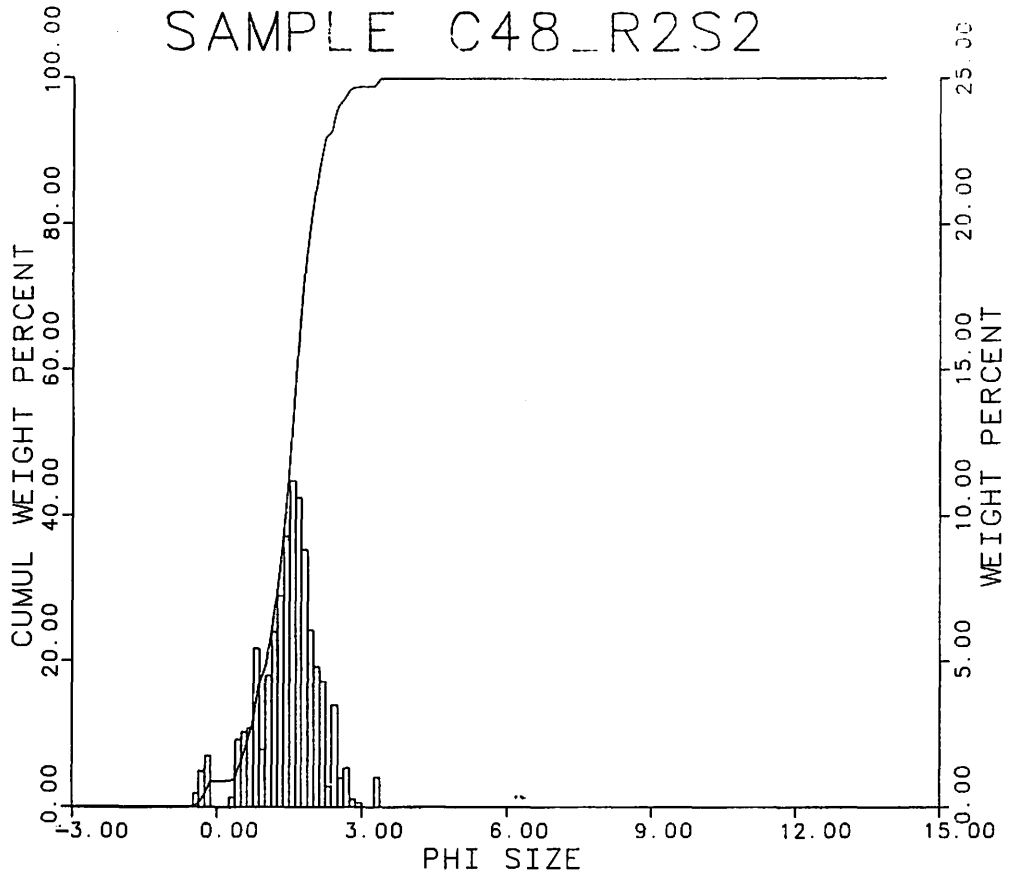
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C48\_R2S2



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 1.4  
 SAND \_\_\_\_\_ 95.1  
   V-COARSE SAND - 3.4  
   COARSE SAND - 14.8  
   MEDIUM SAND - 61.5  
   FINE SAND - 15.5  
   V-FINE SAND - 1.0  
 SILT \_\_\_\_\_ 2.5  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

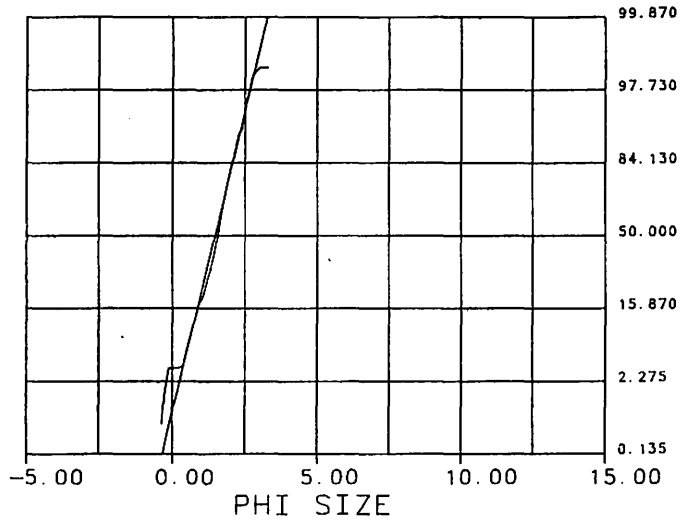
MEDIAN \_\_\_\_\_ 1.544  
 MEAN \_\_\_\_\_ 1.476  
 STD. DEVIATION - 0.600  
 INC. SKEWNESS - -0.135  
 INC. KURTOSIS - 0.602

### Moment Measures

1st MOMENT \_\_\_\_\_ 1.484  
 2nd MOMENT \_\_\_\_\_ 0.631  
 3rd MOMENT \_\_\_\_\_ -0.407  
 4th MOMENT \_\_\_\_\_ 4.021

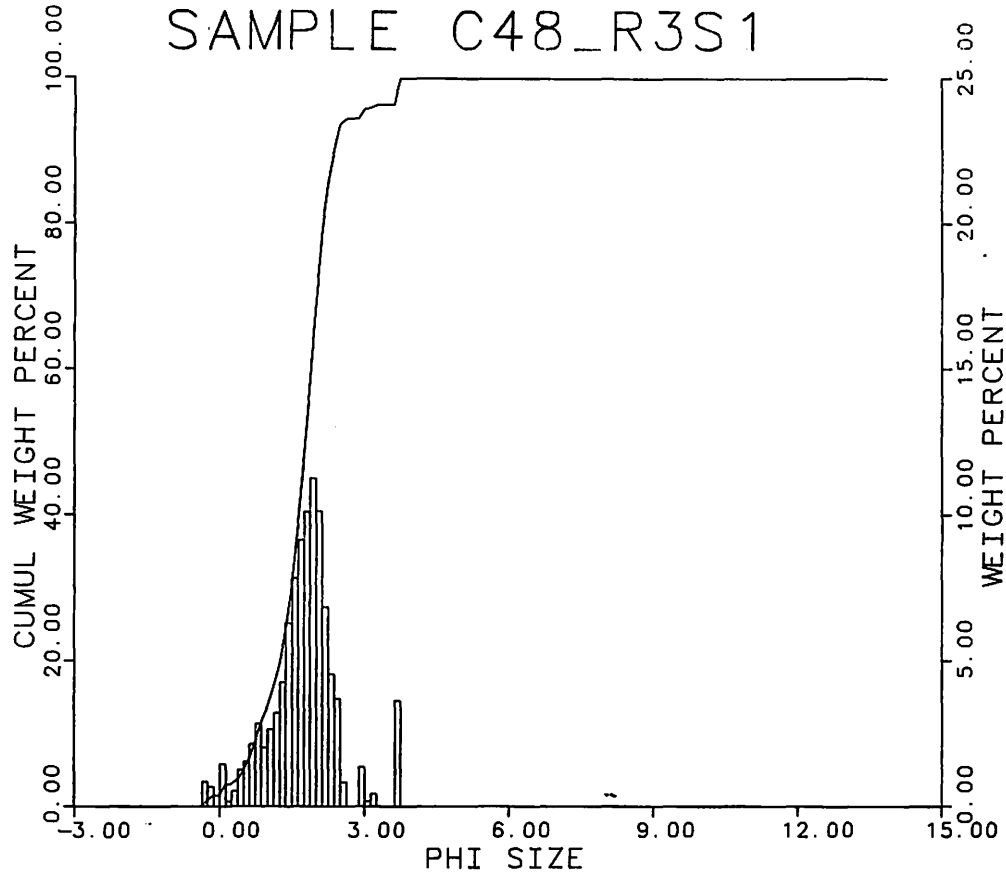
DATE: 4-6-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C48\_R3S1



Sample Location  
 LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

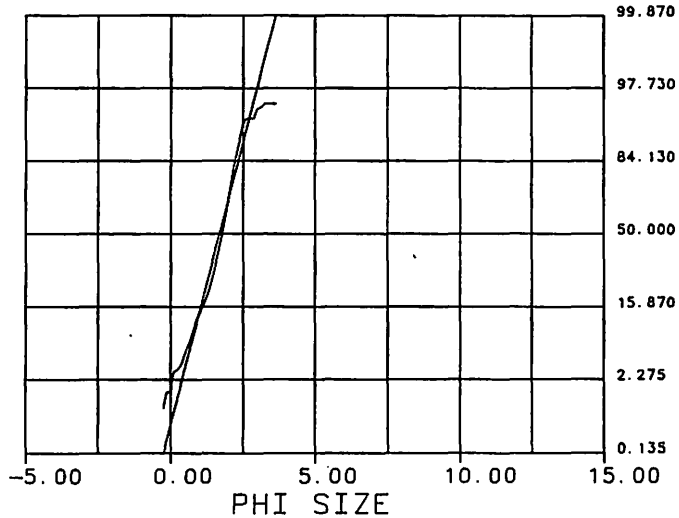
Gross Parameters (%)  
 GRAVEL ——— 2.5  
 SAND ——— 95.3  
   V-COARSE SAND — 1.5  
   COARSE SAND — 11.4  
   MEDIUM SAND — 52.2  
   FINE SAND — 26.1  
   V-FINE SAND — 4.0  
 SILT ——— 2.2  
 CLAY ——— 0.0

Graphic Measures  
 MEDIAN ——— 1.787  
 MEAN ——— 1.710  
 STD. DEVIATION — 0.645  
 INC. SKEWNESS — -0.134  
 INC. KURTOSIS — 0.660

Moment Measures  
 1st MOMENT ——— 1.730  
 2nd MOMENT ——— 0.705  
 3rd MOMENT ——— 0.046  
 4th MOMENT ——— 4.546

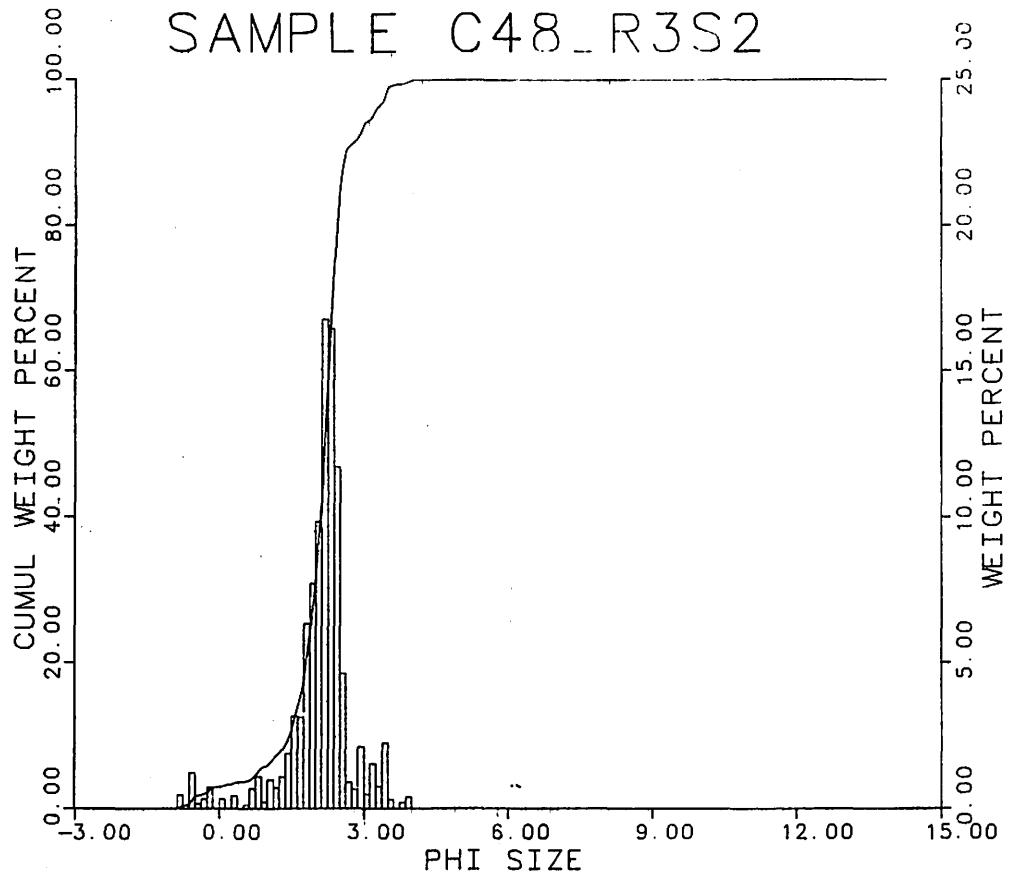
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C48\_R3S2



Sample Location  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

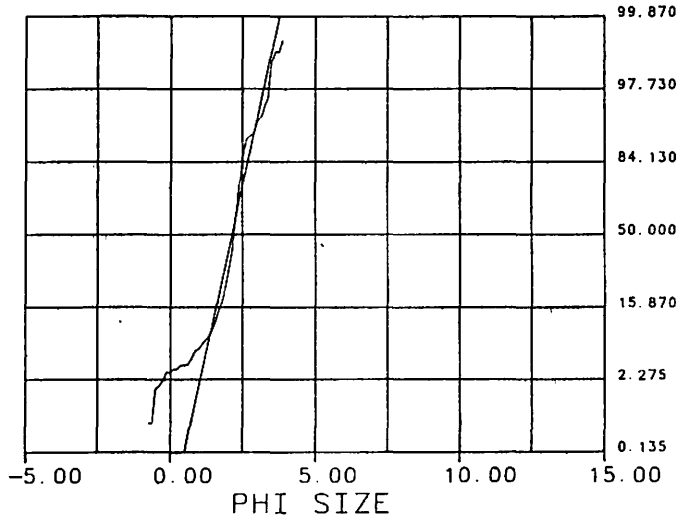
Gross Parameters (%)  
 GRAVEL ----- 1.0  
 SAND ----- 95.7  
 V-COARSE SAND - 2.8  
 COARSE SAND --- 2.8  
 MEDIUM SAND --- 24.0  
 FINE SAND ----- 60.4  
 V-FINE SAND --- 5.7  
 SILT ----- 3.3  
 CLAY ----- 0.0

Graphic Measures  
 MEDIAN ----- 2.194  
 MEAN ----- 2.131  
 STD. DEVIATION- 0.548  
 INC. SKEWNESS-- -0.213  
 INC. KURTOSIS-- 0.601

Moment Measures  
 1st MOMENT ----- 2.094  
 2nd MOMENT ----- 0.683  
 3rd MOMENT ----- -1.490  
 4th MOMENT ----- 7.913

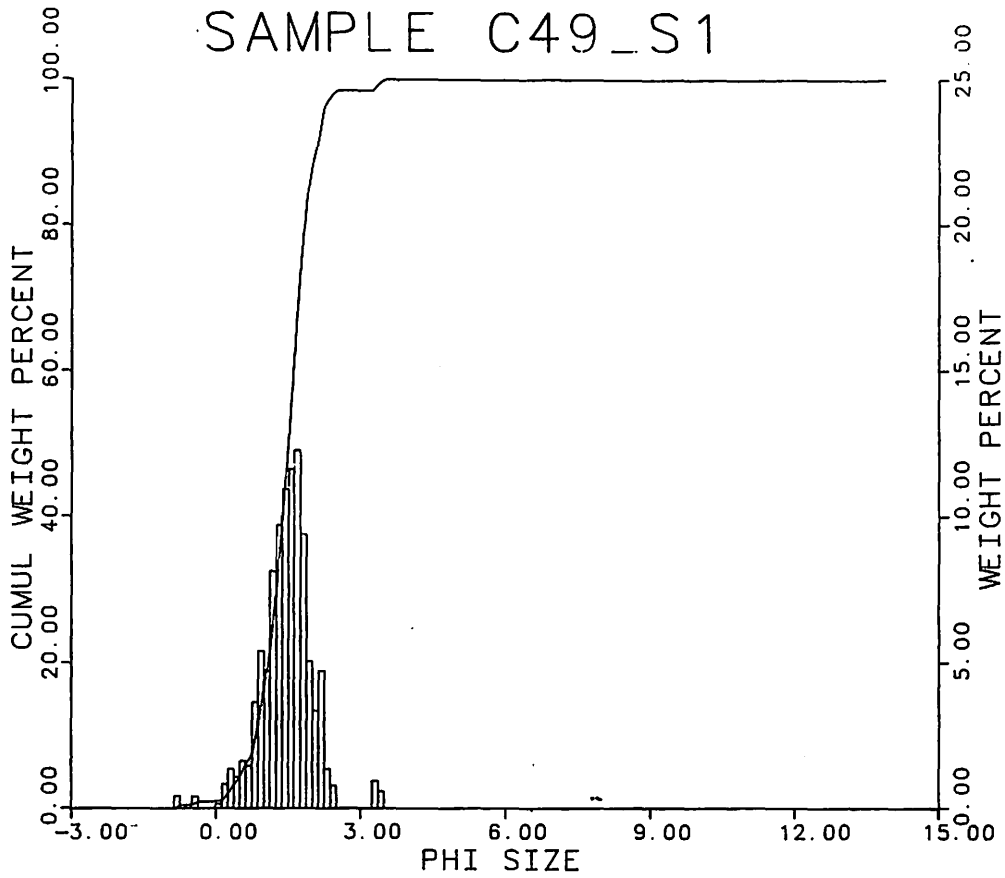
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C49\_S1



### Sample Location

LATITUDE ——— 0-0-0  
 LONGITUDE ——— 0-0-0  
 DEPTH (m) ——— 0.00

### Gross Parameters (%)

GRAVEL ——— 0.0  
 SAND ——— 98.8  
 V-COARSE SAND — 0.9  
 COARSE SAND — 15.3  
 MEDIUM SAND — 71.0  
 FINE SAND — 10.1  
 V-FINE SAND — 1.5  
 SILT ——— 1.2  
 CLAY ——— 0.0

### Graphic Measures

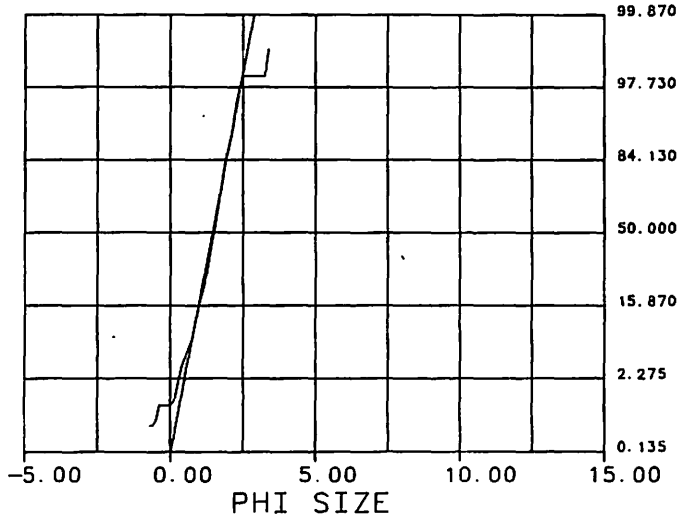
MEDIAN ——— 1.501  
 MEAN ——— 1.461  
 STD. DEVIATION — 0.478  
 INC. SKEWNESS — -0.136  
 INC. KURTOSIS — 0.532

### Moment Measures

1st MOMENT ——— 1.466  
 2nd MOMENT ——— 0.541  
 3rd MOMENT ——— -0.166  
 4th MOMENT ——— 5.896

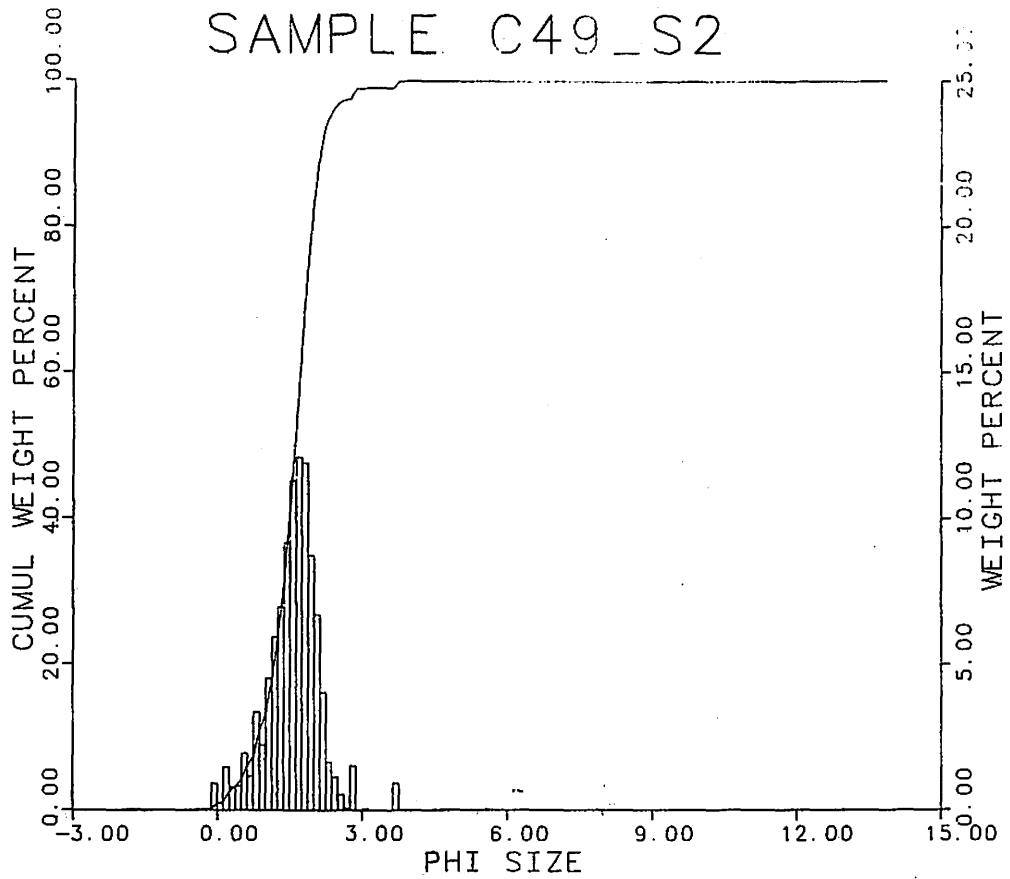
DATE: 4-6-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C49\_S2



**Sample Location**  
 LATITUDE ----- 0-0-0  
 LONGITUDE ----- 0-0-0  
 DEPTH (m) ----- 0.00

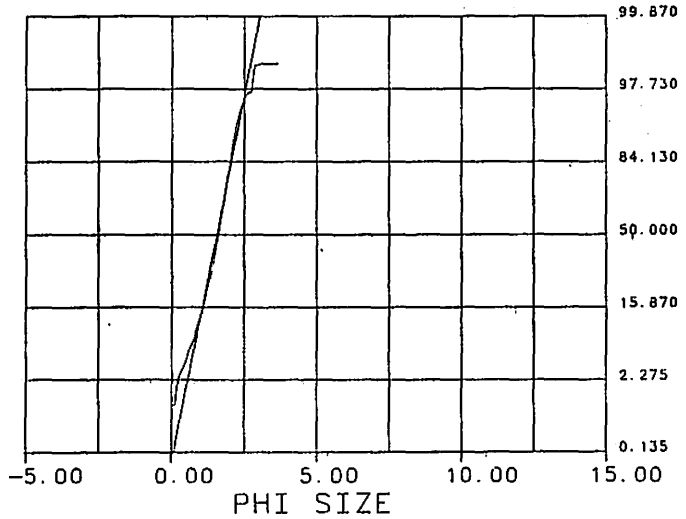
**Gross Parameters (%)**  
 GRAVEL ----- 3.2  
 SAND ----- 92.3  
   V-COARSE SAND - 0.9  
   COARSE SAND --- 10.9  
   MEDIUM SAND --- 65.2  
   FINE SAND ----- 14.4  
   V-FINE SAND --- 0.9  
 SILT ----- 4.5  
 CLAY ----- 0.0

**Graphic Measures**  
 MEDIAN ----- 1.617  
 MEAN ----- 1.572  
 STD. DEVIATION- 0.496  
 INC. SKEWNESS - -0.176  
 INC. KURTOSIS - 0.530

**Moment Measures**  
 1st MOMENT ----- 1.568  
 2nd MOMENT ----- 0.549  
 3rd MOMENT ----- -0.019  
 4th MOMENT ----- 4.983

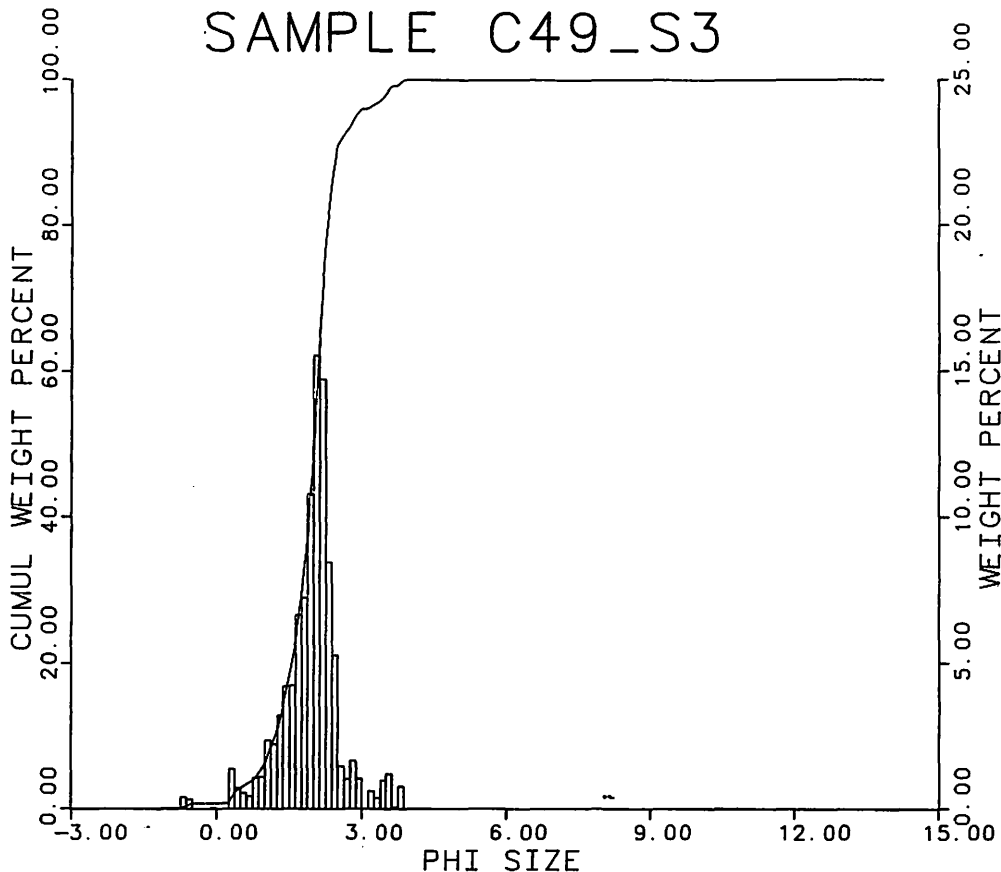
DATE: 4-6-88

## PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C49\_S3



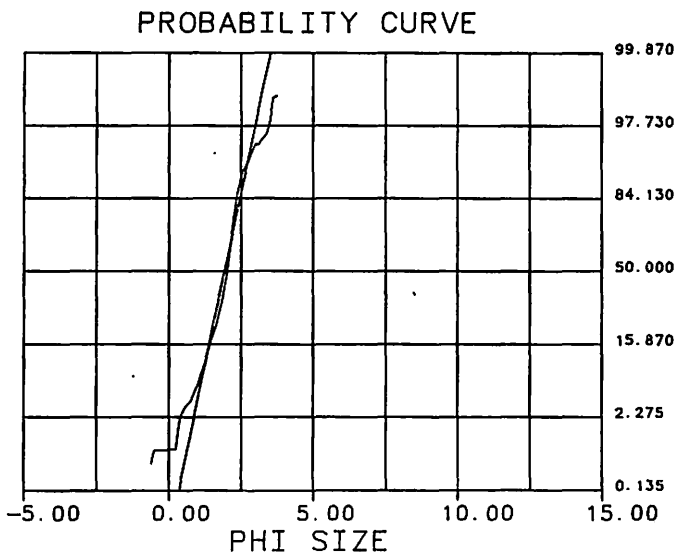
**Sample Location**  
 LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

**Gross Parameters (%)**  
 GRAVEL \_\_\_\_\_ 0.2  
 SAND \_\_\_\_\_ 95.1  
 V-COARSE SAND - 0.7  
 COARSE SAND \_\_\_\_\_ 5.0  
 MEDIUM SAND \_\_\_\_\_ 38.9  
 FINE SAND \_\_\_\_\_ 46.7  
 V-FINE SAND \_\_\_\_\_ 3.8  
 SILT \_\_\_\_\_ 4.7  
 CLAY \_\_\_\_\_ 0.0

**Graphic Measures**  
 MEDIAN \_\_\_\_\_ 2.025  
 MEAN \_\_\_\_\_ 1.939  
 STD. DEVIATION \_\_\_\_\_ 0.528  
 INC. SKEWNESS \_\_\_\_\_ -0.214  
 INC. KURTOSIS \_\_\_\_\_ 0.527

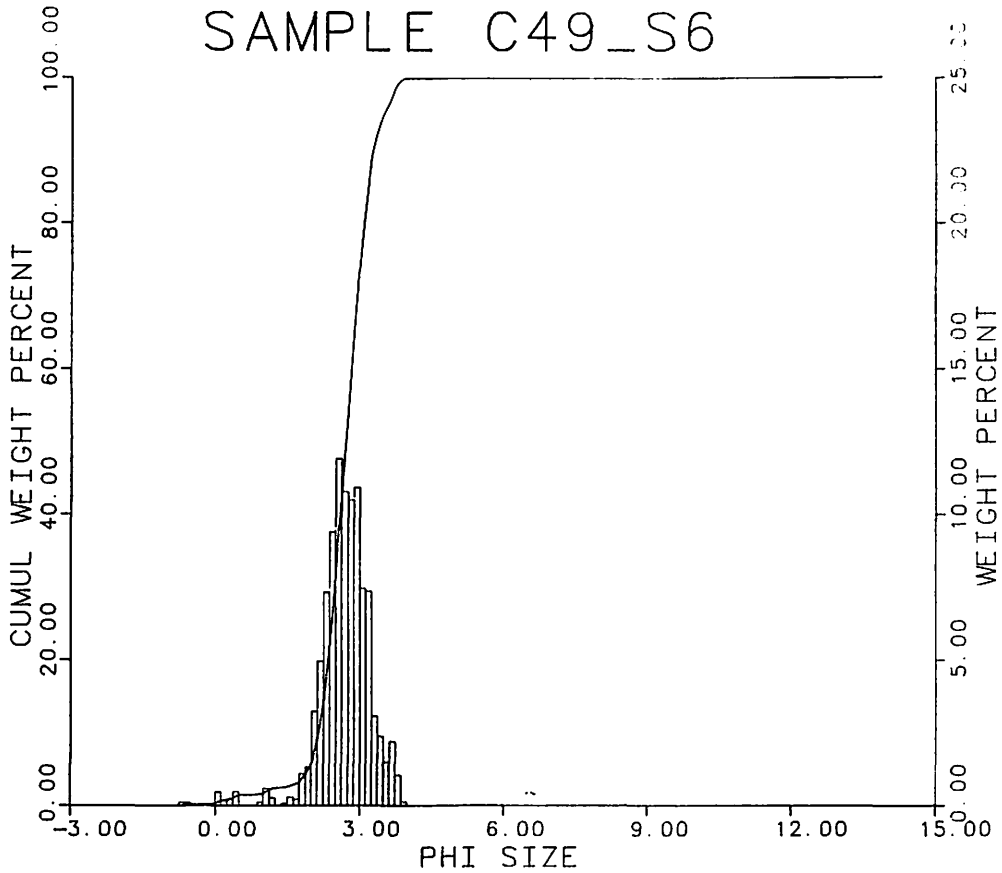
**Moment Measures**  
 1st MOMENT \_\_\_\_\_ 1.947  
 2nd MOMENT \_\_\_\_\_ 0.614  
 3rd MOMENT \_\_\_\_\_ -0.467  
 4th MOMENT \_\_\_\_\_ 5.883

DATE: 4-6-88



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

# SAMPLE C49\_S6



### Sample Location

LATITUDE \_\_\_\_\_ 0-0-0  
 LONGITUDE \_\_\_\_\_ 0-0-0  
 DEPTH (m) \_\_\_\_\_ 0.00

### Gross Parameters (%)

GRAVEL \_\_\_\_\_ 0.1  
 SAND \_\_\_\_\_ 87.3  
 V-COARSE SAND \_\_\_\_\_ 0.2  
 COARSE SAND \_\_\_\_\_ 1.2  
 MEDIUM SAND \_\_\_\_\_ 3.5  
 FINE SAND \_\_\_\_\_ 60.4  
 V-FINE SAND \_\_\_\_\_ 22.1  
 SILT \_\_\_\_\_ 12.6  
 CLAY \_\_\_\_\_ 0.0

### Graphic Measures

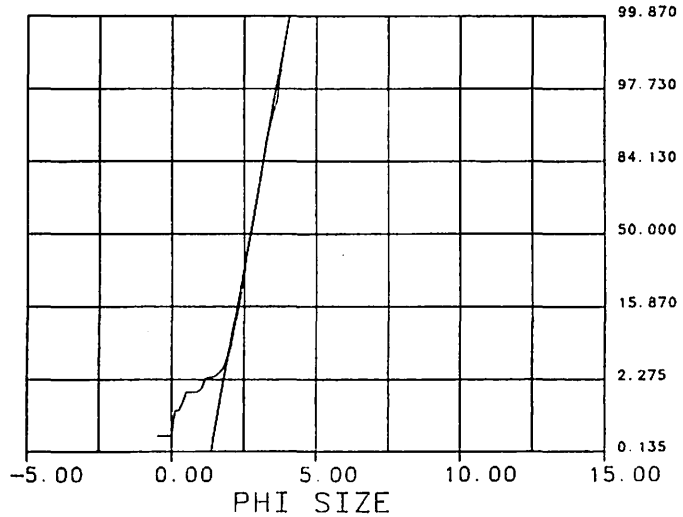
MEDIAN \_\_\_\_\_ 2.712  
 MEAN \_\_\_\_\_ 2.718  
 STD. DEVIATION \_\_\_\_\_ 0.451  
 INC. SKEWNESS \_\_\_\_\_ 0.017  
 INC. KURTOSIS \_\_\_\_\_ 0.315

### Moment Measures

1st MOMENT \_\_\_\_\_ 2.687  
 2nd MOMENT \_\_\_\_\_ 0.553  
 3rd MOMENT \_\_\_\_\_ -1.610  
 4th MOMENT \_\_\_\_\_ 9.827

DATE: 4-6-88

### PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION  
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

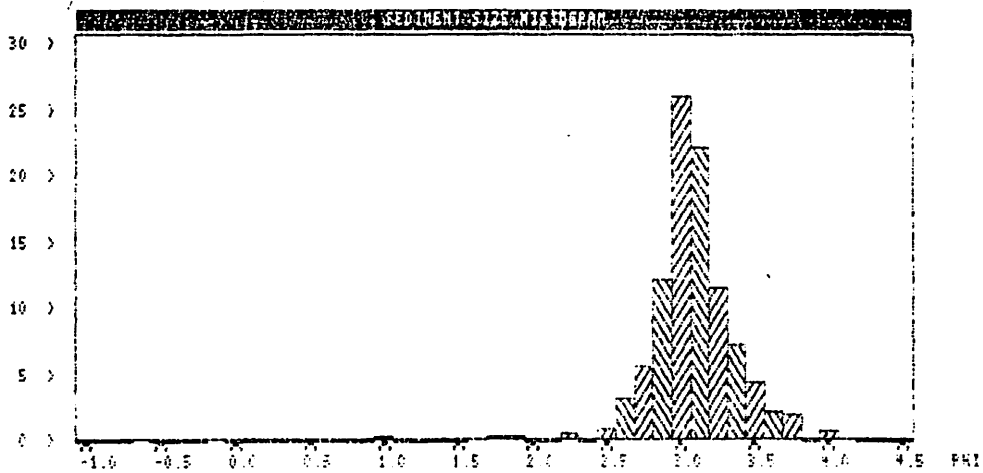
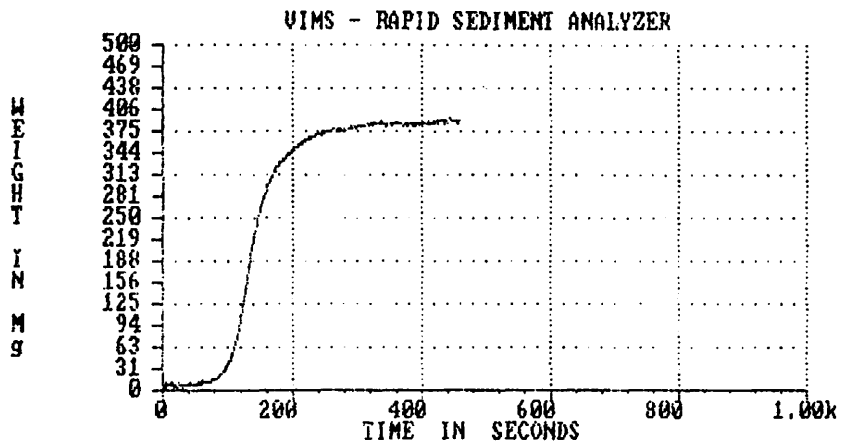


C19R1\_S1  
 19-R1 S-1 0-1.70M  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 623.6800 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 3.0012 0.3770 -3.6321 33.4901 M1 M2 M3 M4 (phi)  
 3.0193 3.0014 0.2572 0.1010 0.1909 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.1147	0.0298	0.1147	0.0298
-0.7500	1.6818	17.7631	0.0000	0.0000	0.1147	0.0298
-0.6250	1.5422	16.6582	0.7715	0.2002	0.8861	0.2299
-0.5000	1.4142	15.6003	0.0000	0.0000	0.8861	0.2299
-0.3750	1.2968	14.5884	0.0000	0.0000	0.8861	0.2299
-0.2500	1.1892	13.6217	0.0000	0.0000	0.8861	0.2299
-0.1250	1.0905	12.6995	0.3792	0.0984	1.2653	0.3283
0.0000	1.0000	11.8208	0.0000	0.0000	1.2653	0.3283
0.1250	0.9170	10.9848	0.0000	0.0000	1.2653	0.3283
0.2500	0.8409	10.1905	0.0000	0.0000	1.2653	0.3283
0.3750	0.7711	9.4370	0.0000	0.0000	1.2653	0.3283
0.5000	0.7071	8.7233	0.0000	0.0000	1.2653	0.3283
0.6250	0.6484	8.0484	0.0000	0.0000	1.2653	0.3283
0.7500	0.5946	7.4111	0.0000	0.0000	1.2653	0.3283
0.8750	0.5453	6.8104	0.2062	0.0535	1.4715	0.3818
1.0000	0.5000	6.2452	1.7357	0.4503	3.2072	0.8321
1.1250	0.4585	5.7143	0.0000	0.0000	3.2072	0.8321
1.2500	0.4204	5.2167	0.0000	0.0000	3.2072	0.8321
1.3750	0.3856	4.7510	0.0000	0.0000	3.2072	0.8321
1.5000	0.3536	4.3163	0.0000	0.0000	3.2072	0.8321
1.6250	0.3242	3.9113	0.3501	0.0908	3.5572	0.9230
1.7500	0.2973	3.5349	1.0362	0.2689	4.5934	1.1918
1.8750	0.2726	3.1860	1.0855	0.2816	5.6789	1.4735
2.0000	0.2500	2.8634	0.0000	0.0000	5.6789	1.4735
2.1250	0.2293	2.5660	0.0000	0.0000	5.6789	1.4735
2.2500	0.2102	2.2927	1.9536	0.5069	7.6325	1.9804
2.3750	0.1928	2.0423	0.2322	0.0576	7.8547	2.0380
2.5000	0.1768	1.8137	3.6541	0.9481	11.5088	2.9861
2.6250	0.1621	1.6058	12.0091	3.1159	23.5179	6.1020
2.7500	0.1487	1.4175	21.9865	5.7047	45.5044	11.8067
2.8750	0.1363	1.2476	46.7423	12.1279	92.2467	23.9347
3.0000	0.1250	1.0949	99.5079	25.8187	191.7546	49.7534
3.1250	0.1146	0.9582	84.7854	21.9987	276.5400	71.7521
3.2500	0.1051	0.8364	44.2108	11.4711	320.7508	83.2232
3.3750	0.0964	0.7282	28.1131	7.2943	348.8639	90.5175
3.5000	0.0884	0.6326	17.0697	4.4290	365.9336	94.9465
3.6250	0.0811	0.5484	8.6294	2.2390	374.5630	97.1855
3.7500	0.0743	0.4744	7.4387	1.9301	382.0017	99.1156
3.8750	0.0682	0.4098	0.0262	0.0068	382.0279	99.1224
4.0000	0.0625	0.3533	3.0006	0.7786	385.0286	99.9010
4.1250	0.0573	0.3043	0.3817	0.0990	385.4103	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	385.4103	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	385.4103	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	385.4103	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C19R1\_S2

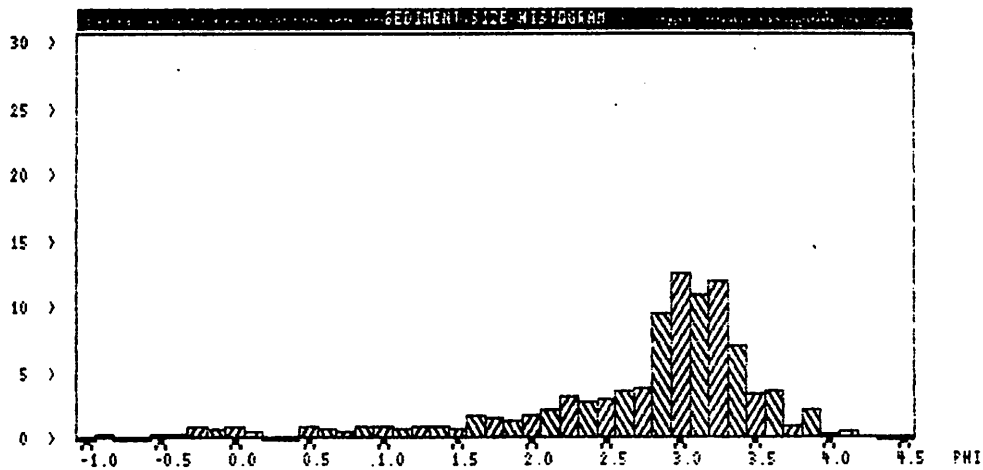
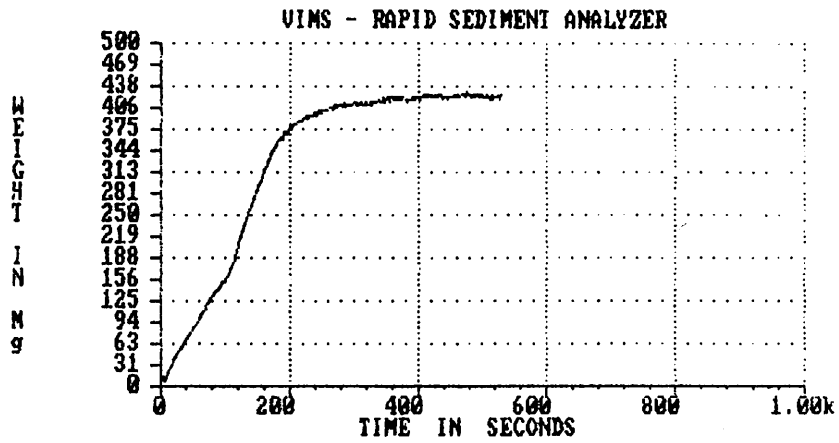
19-R1 S-2 1.70-1.78M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
682.0520 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.6006 0.9389 -1.5555 5.1608 M1 M2 M3 M4 (phi)  
2.6616 2.9066 0.8469 -0.5269 0.5735 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)+	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2396	0.2972	1.2396	0.2972
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2396	0.2972
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2396	0.2972
-0.5000	1.4142	15.6003	1.5331	0.3676	2.7727	0.6648
-0.3750	1.2968	14.5884	1.6478	0.3951	4.4205	1.0598
-0.2500	1.1892	13.6217	4.4123	1.0579	8.8328	2.1177
-0.1250	1.0905	12.6995	2.8184	0.6757	11.6512	2.7934
0.0000	1.0000	11.8208	3.9711	0.9521	15.6223	3.7455
0.1250	0.9170	10.9848	2.2043	0.5285	17.8266	4.2740
0.2500	0.8409	10.1905	0.0000	0.0000	17.8266	4.2740
0.3750	0.7711	9.4370	0.0000	0.0000	17.8266	4.2740
0.5000	0.7071	8.7233	4.2118	1.0098	22.0384	5.2838
0.6250	0.6484	8.0484	3.5859	0.8597	25.6243	6.1435
0.7500	0.5946	7.4111	1.9746	0.4734	27.5989	6.6169
0.8750	0.5453	6.8104	4.1942	1.0056	31.7930	7.6225
1.0000	0.5000	6.2452	4.4100	1.0573	36.2031	8.6798
1.1250	0.4585	5.7143	2.8713	0.6884	39.0744	9.3682
1.2500	0.4204	5.2167	4.2466	1.0181	43.3209	10.3864
1.3750	0.3856	4.7510	4.3627	1.0460	47.6837	11.4324
1.5000	0.3536	4.3163	3.4450	0.8259	51.1287	12.2583
1.6250	0.3242	3.9113	6.9910	1.6761	58.1197	13.9344
1.7500	0.2973	3.5349	6.7823	1.6261	64.9020	15.5605
1.8750	0.2726	3.1860	5.3084	1.2727	70.2104	16.8332
2.0000	0.2500	2.8634	7.1146	1.7058	77.3251	18.5390
2.1250	0.2293	2.5660	9.3660	2.2455	86.6911	20.7845
2.2500	0.2102	2.2927	13.2762	3.1830	99.9673	23.9676
2.3750	0.1928	2.0423	11.9583	2.8670	111.9255	26.8346
2.5000	0.1768	1.8137	12.6166	3.0249	124.5421	29.8595
2.6250	0.1621	1.6058	14.8657	3.5641	139.4078	33.4236
2.7500	0.1487	1.4175	16.1344	3.8683	155.5422	37.2919
2.8750	0.1363	1.2476	39.8064	9.5438	195.3487	46.8356
3.0000	0.1250	1.0949	52.2704	12.5320	247.6190	59.3677
3.1250	0.1146	0.9582	45.0178	10.7932	292.6368	70.1609
3.2500	0.1051	0.8364	49.5329	11.8757	342.1697	82.0366
3.3750	0.0964	0.7282	29.1236	6.9825	371.2933	89.0191
3.5000	0.0884	0.6326	14.0547	3.3697	385.3480	92.3888
3.6250	0.0811	0.5484	14.6656	3.5161	400.0136	95.9049
3.7500	0.0743	0.4744	3.6759	0.8813	403.6895	96.7862
3.8750	0.0682	0.4098	9.2606	2.2203	412.9501	99.0065
4.0000	0.0625	0.3533	1.3007	0.3118	414.2508	99.3183
4.1250	0.0573	0.3043	2.0540	0.4924	416.3048	99.8108
4.2500	0.0526	0.2617	0.7892	0.1892	417.0940	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	417.0940	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	417.0940	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C19R1\_S3

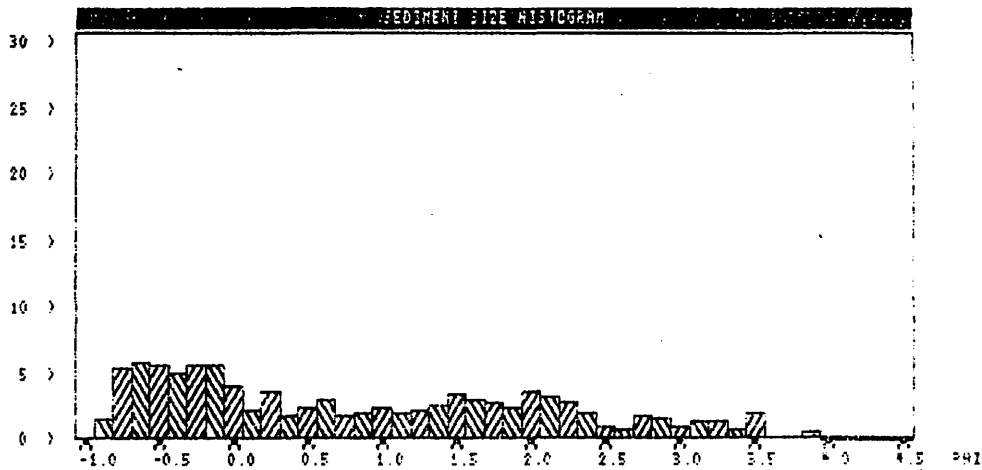
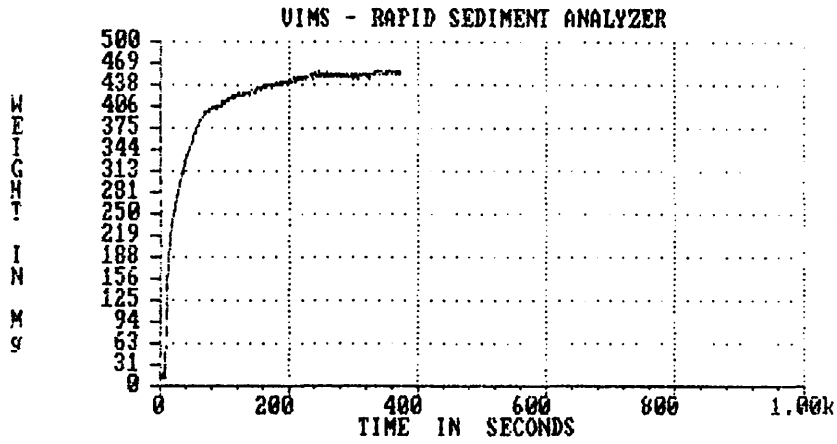
19-R1 S-3 1.78-1.90M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
730.6301 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.7914 1.2724 0.4623 2.0609 M1 M2 M3 M4 (phi)  
0.7249 0.5561 1.2802 0.2478 0.8233 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.0100	0.2278	1.0100	0.2278
-0.8750	1.8340	18.9156	7.2093	1.6262	8.2192	1.8540
-0.7500	1.6818	17.7631	23.5871	5.3205	31.8064	7.1745
-0.6250	1.5422	16.6582	25.9066	5.8437	57.7129	13.0181
-0.5000	1.4142	15.6003	24.7202	5.5761	82.4331	18.5942
-0.3750	1.2968	14.5884	22.5440	5.0852	104.9771	23.6793
-0.2500	1.1892	13.6217	25.2285	5.6907	130.2056	29.3700
-0.1250	1.0905	12.6995	24.4570	5.5167	154.6626	34.8867
0.0000	1.0000	11.8208	17.6510	3.9815	172.3136	38.8682
0.1250	0.9170	10.9848	9.4941	2.1415	181.8077	41.0097
0.2500	0.8409	10.1905	15.6110	3.5213	197.4187	44.5311
0.3750	0.7711	9.4370	8.1128	1.8300	205.5315	46.3610
0.5000	0.7071	8.7233	10.2059	2.3021	215.7374	48.6631
0.6250	0.6484	8.0484	13.2045	2.9785	228.9418	51.6416
0.7500	0.5946	7.4111	8.1410	1.8363	237.0829	53.4780
0.8750	0.5453	6.8104	8.5700	1.9331	245.6529	55.4111
1.0000	0.5000	6.2452	10.2007	2.3009	255.8535	57.7120
1.1250	0.4585	5.7143	8.6605	1.9535	264.5140	59.6655
1.2500	0.4204	5.2167	9.2891	2.0953	273.8031	61.7608
1.3750	0.3856	4.7510	11.6959	2.6382	285.4990	64.3990
1.5000	0.3536	4.3163	15.4595	3.4872	300.9586	67.8862
1.6250	0.3242	3.9113	13.4318	3.0298	314.3904	70.9160
1.7500	0.2973	3.5349	12.3360	2.7826	326.7264	73.6986
1.8750	0.2726	3.1860	10.6188	2.3952	337.3452	76.0938
2.0000	0.2500	2.8634	15.9418	3.5959	353.2869	79.6897
2.1250	0.2293	2.5660	14.0183	3.1621	367.3053	82.8518
2.2500	0.2102	2.2927	12.3107	2.7769	379.6160	85.6287
2.3750	0.1928	2.0423	8.3423	1.8817	387.9583	87.5104
2.5000	0.1768	1.8137	4.1175	0.9288	392.0758	88.4392
2.6250	0.1621	1.6058	3.2197	0.7263	395.2955	89.1655
2.7500	0.1487	1.4175	8.2919	1.8704	403.5874	91.0358
2.8750	0.1363	1.2476	6.5295	1.4728	410.1169	92.5087
3.0000	0.1250	1.0949	4.2345	0.9552	414.3513	93.4638
3.1250	0.1146	0.9582	6.2613	1.4123	420.6126	94.8762
3.2500	0.1051	0.8364	6.3678	1.4364	426.9805	96.3125
3.3750	0.0964	0.7282	3.1751	0.7162	430.1555	97.0287
3.5000	0.0884	0.6326	8.5639	1.9317	438.7195	98.9605
3.6250	0.0811	0.5484	0.7326	0.1652	439.4521	99.1257
3.7500	0.0743	0.4744	1.1149	0.2515	440.5670	99.3772
3.8750	0.0682	0.4098	2.6659	0.6013	443.2329	99.9785
4.0000	0.0625	0.3533	0.0952	0.0215	443.3281	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	443.3281	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	443.3281	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	443.3281	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	443.3281	100.0000

\* - fall velocity of natural grains in fresh water at 20cC

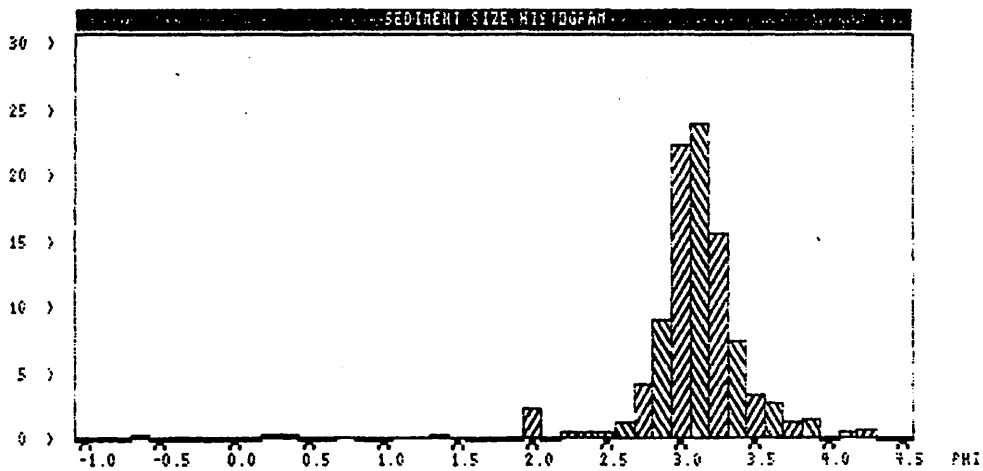
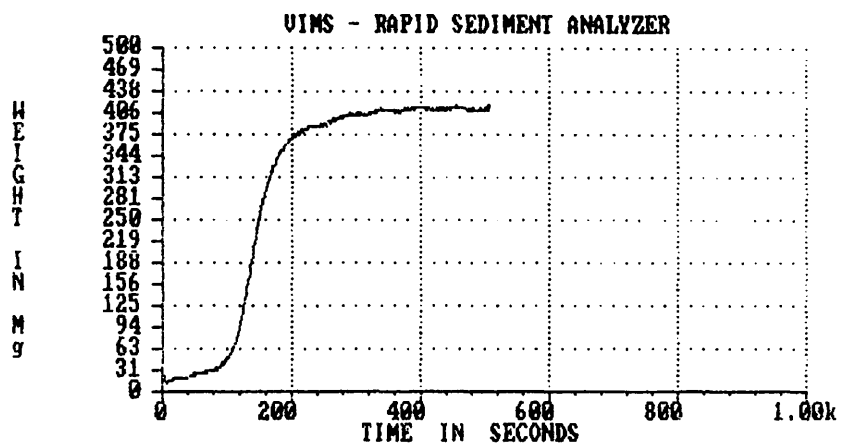


C19R2\_S1  
 19-R2 S-1 0-1.10M  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 665.5982 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 3.0054 0.4785 -3.1430 21.8561 M1 M2 M3 M4 (phi)  
 3.0456 3.0388 0.3078 -0.0364 0.2567 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.2875	0.3176	1.2875	0.3176
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2875	0.3176
-0.3750	1.2968	14.5884	0.0000	0.0000	1.2875	0.3176
-0.2500	1.1892	13.6217	0.0000	0.0000	1.2875	0.3176
-0.1250	1.0905	12.6995	0.0000	0.0000	1.2875	0.3176
0.0000	1.0000	11.8208	0.0000	0.0000	1.2875	0.3176
0.1250	0.9170	10.9848	0.0000	0.0000	1.2875	0.3176
0.2500	0.8409	10.1905	1.2173	0.3003	2.5048	0.6180
0.3750	0.7711	9.4370	1.5231	0.3758	4.0279	0.9937
0.5000	0.7071	8.7233	0.0178	0.0044	4.0457	0.9981
0.6250	0.6484	8.0484	0.0000	0.0000	4.0457	0.9981
0.7500	0.5946	7.4111	0.4301	0.1061	4.4759	1.1043
0.8750	0.5453	6.8104	0.0000	0.0000	4.4759	1.1043
1.0000	0.5000	6.2452	0.0000	0.0000	4.4759	1.1043
1.1250	0.4585	5.7143	0.2452	0.0605	4.7211	1.1648
1.2500	0.4204	5.2167	0.8537	0.2106	5.5748	1.3754
1.3750	0.3856	4.7510	1.3712	0.3383	6.9460	1.7137
1.5000	0.3536	4.3163	0.2407	0.0594	7.1867	1.7731
1.6250	0.3242	3.9113	0.0000	0.0000	7.1867	1.7731
1.7500	0.2973	3.5349	0.0000	0.0000	7.1867	1.7731
1.8750	0.2726	3.1860	0.0000	0.0000	7.1867	1.7731
2.0000	0.2500	2.8634	9.5384	2.3533	16.7251	4.1263
2.1250	0.2293	2.5660	0.0000	0.0000	16.7251	4.1263
2.2500	0.2102	2.2927	2.0320	0.5013	18.7570	4.6276
2.3750	0.1928	2.0423	2.1342	0.5265	20.8912	5.1542
2.5000	0.1768	1.8137	2.2614	0.5579	23.1527	5.7121
2.6250	0.1621	1.6058	5.5997	1.3815	28.7523	7.0936
2.7500	0.1487	1.4175	17.4191	4.2975	46.1714	11.3912
2.8750	0.1363	1.2476	36.5463	9.0165	82.7177	20.4077
3.0000	0.1250	1.0949	89.9165	22.1837	172.6342	42.5914
3.1250	0.1146	0.9582	96.6743	23.8510	269.3086	66.4425
3.2500	0.1051	0.8364	62.9785	15.5377	332.2871	81.9802
3.3750	0.0964	0.7282	30.1559	7.4399	362.4430	89.4201
3.5000	0.0884	0.6326	13.8907	3.4270	376.3337	92.8472
3.6250	0.0811	0.5484	11.6056	2.8633	387.9393	95.7104
3.7500	0.0743	0.4744	5.6901	1.4038	393.6294	97.1143
3.8750	0.0682	0.4098	6.1711	1.5225	399.8005	98.6368
4.0000	0.0625	0.3533	0.0113	0.0028	399.8118	98.6396
4.1250	0.0573	0.3043	2.1219	0.5235	401.9337	99.1630
4.2500	0.0526	0.2617	3.3924	0.8370	405.3260	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	405.3260	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	405.3260	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



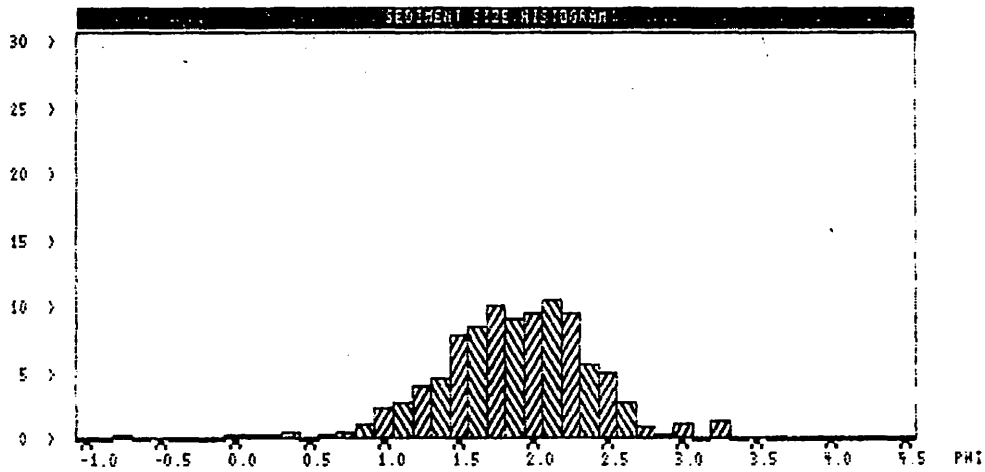
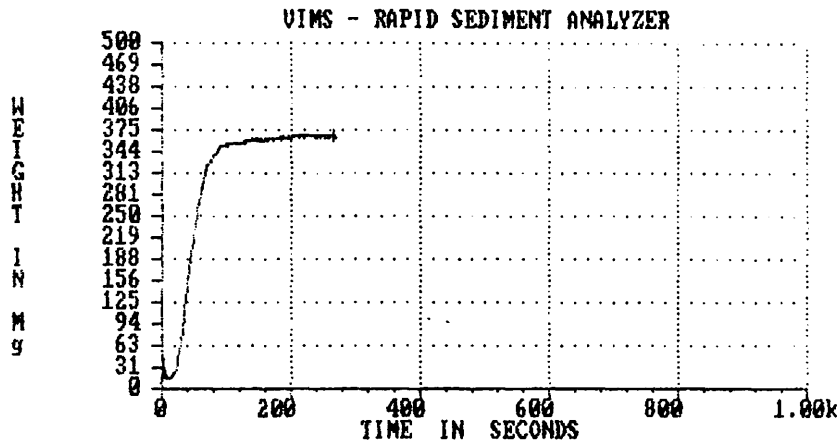


C19R2\_S2  
 19-R2 S-2 1.10-1.55M  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 584.5041 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 1.8002 0.5520 -0.7215 5.5783 M1 M2 M3 M4 (phi)  
 1.8142 1.8326 0.4886 -0.0758 0.4408 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.3602	0.3874	1.3602	0.3874
-0.6250	1.5422	16.6582	0.0000	0.0000	1.3602	0.3874
-0.5000	1.4142	15.6003	0.4139	0.1179	1.7741	0.5052
-0.3750	1.2968	14.5884	0.2047	0.0583	1.9788	0.5635
-0.2500	1.1892	13.6217	0.0000	0.0000	1.9788	0.5635
-0.1250	1.0905	12.6995	0.1496	0.0426	2.1284	0.6061
0.0000	1.0000	11.8208	0.9328	0.2656	3.0612	0.8718
0.1250	0.9170	10.9848	0.9592	0.2732	4.0204	1.1450
0.2500	0.8409	10.1905	1.4634	0.4168	5.4838	1.5617
0.3750	0.7711	9.4370	1.9789	0.5636	7.4627	2.1253
0.5000	0.7071	8.7233	0.0000	0.0000	7.4627	2.1253
0.6250	0.6484	8.0484	0.9780	0.2785	8.4407	2.4038
0.7500	0.5946	7.4111	1.7894	0.5096	10.2301	2.9134
0.8750	0.5453	6.8104	3.7704	1.0738	14.0005	3.9871
1.0000	0.5000	6.2452	8.4058	2.3939	22.4063	6.3810
1.1250	0.4585	5.7143	9.7578	2.7789	32.1641	9.1599
1.2500	0.4204	5.2167	13.8108	3.9331	45.9749	13.0930
1.3750	0.3856	4.7510	16.1176	4.5900	62.0924	17.6830
1.5000	0.3536	4.3163	27.6479	7.8737	89.7403	25.5567
1.6250	0.3242	3.9113	29.2943	8.3426	119.0346	33.8993
1.7500	0.2973	3.5349	35.5127	10.1135	154.5473	44.0128
1.8750	0.2726	3.1860	31.8064	9.0580	186.3536	53.0708
2.0000	0.2500	2.8634	33.3511	9.4979	219.7048	62.5687
2.1250	0.2293	2.5660	37.0165	10.5418	256.7213	73.1104
2.2500	0.2102	2.2927	33.4307	9.5206	290.1519	82.6310
2.3750	0.1928	2.0423	19.4934	5.5514	309.6453	88.1824
2.5000	0.1768	1.8137	17.6399	5.0236	327.2851	93.2060
2.6250	0.1621	1.6058	9.5198	2.7111	336.8050	95.9171
2.7500	0.1487	1.4175	3.5653	1.0153	340.3703	96.9325
2.8750	0.1363	1.2476	1.4664	0.4176	341.8367	97.3501
3.0000	0.1250	1.0949	4.2610	1.2135	346.0977	98.5635
3.1250	0.1146	0.9582	0.0000	0.0000	346.0977	98.5635
3.2500	0.1051	0.8364	4.7509	1.3530	350.8486	99.9165
3.3750	0.0964	0.7282	0.0000	0.0000	350.8486	99.9165
3.5000	0.0884	0.6326	0.2931	0.0835	351.1417	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	351.1417	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	351.1417	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	351.1417	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	351.1417	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	351.1417	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	351.1417	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	351.1417	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	351.1417	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

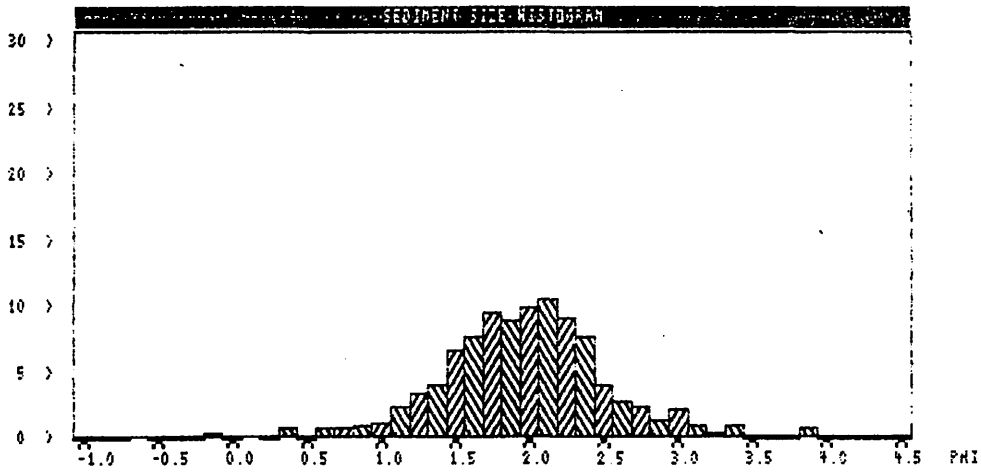
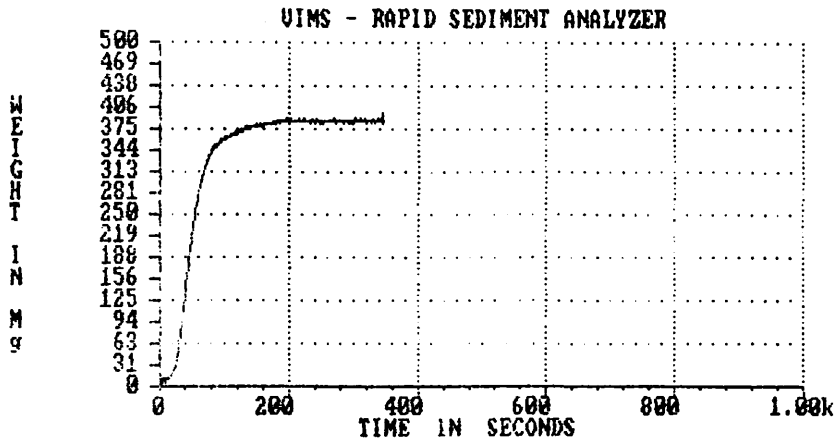


C19R3\_S1  
 19-R3 S-1 0-1.7M  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 623.2882 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 1.9003 0.5735 -0.0548 4.4498 M1 M2 M3 M4 (phi)  
 1.8936 1.9105 0.5286 -0.0054 0.4872 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.3368	0.0885	0.3368	0.0885
-0.5000	1.4142	15.6003	0.0000	0.0000	0.3368	0.0885
-0.3750	1.2968	14.5884	0.0000	0.0000	0.3368	0.0885
-0.2500	1.1892	13.6217	0.0000	0.0000	0.3368	0.0885
-0.1250	1.0905	12.6995	1.2055	0.3166	1.5423	0.4051
0.0000	1.0000	11.8208	0.0000	0.0000	1.5423	0.4051
0.1250	0.9170	10.9848	0.5562	0.1461	2.0985	0.5512
0.2500	0.8409	10.1905	0.0000	0.0000	2.0985	0.5512
0.3750	0.7711	9.4370	2.9298	0.7696	5.0283	1.3208
0.5000	0.7071	8.7233	0.1435	0.0377	5.1718	1.3585
0.6250	0.6484	8.0484	2.6359	0.6924	7.8077	2.0509
0.7500	0.5946	7.4111	2.9404	0.7724	10.7481	2.8232
0.8750	0.5453	6.8104	3.4884	0.9163	14.2365	3.7395
1.0000	0.5000	6.2452	4.4145	1.1596	18.6510	4.8991
1.1250	0.4585	5.7143	8.9690	2.3559	27.6200	7.2550
1.2500	0.4204	5.2167	12.8030	3.3630	40.4230	10.6179
1.3750	0.3856	4.7510	15.3794	4.0397	55.8024	14.6577
1.5000	0.3536	4.3163	25.3067	6.6473	81.1091	21.3050
1.6250	0.3242	3.9113	29.3238	7.7025	110.4330	29.0075
1.7500	0.2973	3.5349	35.7365	9.3869	146.1694	38.3945
1.8750	0.2726	3.1860	33.4797	8.7942	179.6492	47.1886
2.0000	0.2500	2.8634	37.7155	9.9068	217.3646	57.0954
2.1250	0.2293	2.5660	39.7762	10.4481	257.1409	67.5434
2.2500	0.2102	2.2927	34.5240	9.0685	291.6649	76.6119
2.3750	0.1928	2.0423	29.2559	7.6847	320.9208	84.2966
2.5000	0.1768	1.8137	15.0089	3.9424	335.9297	88.2390
2.6250	0.1621	1.6058	10.4677	2.7496	346.3974	90.9885
2.7500	0.1487	1.4175	9.1331	2.3990	355.5305	93.3875
2.8750	0.1363	1.2476	4.9083	1.2893	360.4389	94.6768
3.0000	0.1250	1.0949	8.3278	2.1875	368.7667	96.8643
3.1250	0.1146	0.9582	4.0005	1.0508	372.7672	97.9151
3.2500	0.1051	0.8364	1.0695	0.2809	373.8367	98.1960
3.3750	0.0964	0.7282	4.0521	1.0644	377.8888	99.2604
3.5000	0.0884	0.6326	0.0000	0.0000	377.8888	99.2604
3.6250	0.0811	0.5484	0.0000	0.0000	377.8888	99.2604
3.7500	0.0743	0.4744	0.0000	0.0000	377.8888	99.2604
3.8750	0.0682	0.4098	2.8156	0.7396	380.7045	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	380.7045	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	380.7045	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	380.7045	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	380.7045	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	380.7045	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C19R3\_S2

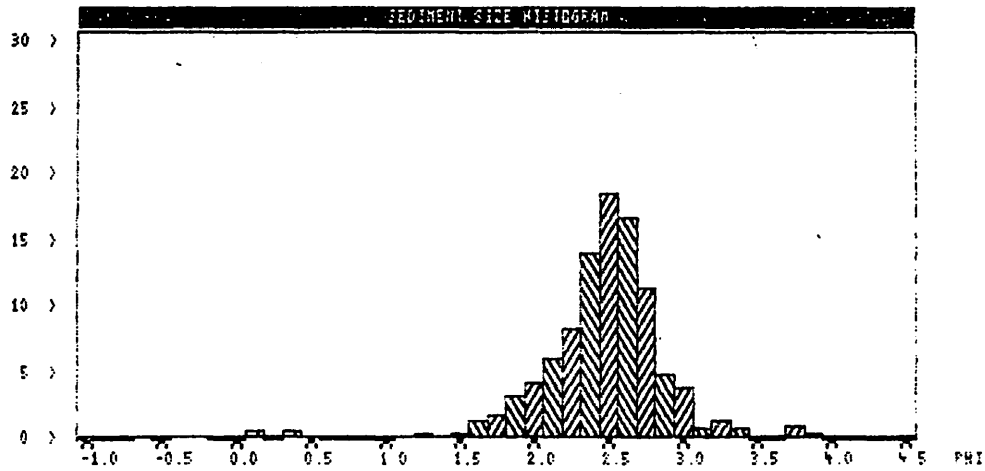
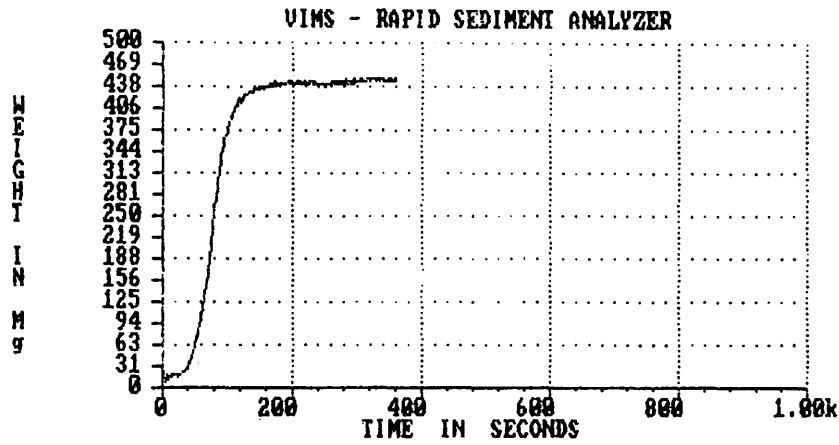
19-R3 S-2 1.7-2.08M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
720.0526    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.3900    0.4617    -1.7081    12.1150    M1 M2 M3 M4 (phi)  
2.4052    2.4363    0.3521    -0.1463    0.3006    Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.1120	0.0257	0.1120	0.0257
-0.8750	1.8340	18.9156	0.0000	0.0000	0.1120	0.0257
-0.7500	1.6818	17.7631	0.0000	0.0000	0.1120	0.0257
-0.6250	1.5422	16.6582	0.2689	0.0616	0.3809	0.0873
-0.5000	1.4142	15.6003	0.0000	0.0000	0.3809	0.0873
-0.3750	1.2968	14.5884	0.2654	0.0608	0.6463	0.1481
-0.2500	1.1892	13.6217	0.3861	0.0885	1.0324	0.2366
-0.1250	1.0905	12.6995	0.1188	0.0272	1.1512	0.2638
0.0000	1.0000	11.8208	0.0000	0.0000	1.1512	0.2638
0.1250	0.9170	10.9848	2.5161	0.5766	3.6673	0.8404
0.2500	0.8409	10.1905	0.0000	0.0000	3.6673	0.8404
0.3750	0.7711	9.4370	2.0706	0.4745	5.7379	1.3149
0.5000	0.7071	8.7233	0.2881	0.0660	6.0261	1.3809
0.6250	0.6484	8.0484	0.0204	0.0047	6.0465	1.3856
0.7500	0.5946	7.4111	0.0000	0.0000	6.0465	1.3856
0.8750	0.5453	6.8104	0.0000	0.0000	6.0465	1.3856
1.0000	0.5000	6.2452	0.0000	0.0000	6.0465	1.3856
1.1250	0.4585	5.7143	1.0071	0.2308	7.0535	1.6163
1.2500	0.4204	5.2167	1.3260	0.3039	8.3795	1.9202
1.3750	0.3856	4.7510	0.3929	0.0900	8.7724	2.0102
1.5000	0.3536	4.3163	1.7058	0.3909	10.4782	2.4011
1.6250	0.3242	3.9113	5.9667	1.3673	16.4449	3.7684
1.7500	0.2973	3.5349	7.3722	1.6894	23.8171	5.4577
1.8750	0.2726	3.1860	14.2145	3.2573	38.0316	8.7150
2.0000	0.2500	2.8634	18.1454	4.1580	56.1770	12.8730
2.1250	0.2293	2.5660	26.0881	5.9781	82.2651	18.8511
2.2500	0.2102	2.2927	36.2446	8.3055	118.5098	27.1566
2.3750	0.1928	2.0423	60.4733	13.8575	178.9831	41.0142
2.5000	0.1768	1.8137	79.9329	18.3167	258.9160	59.3309
2.6250	0.1621	1.6058	72.3781	16.5855	331.2941	75.9164
2.7500	0.1487	1.4175	49.5462	11.3536	380.8403	87.2700
2.8750	0.1363	1.2476	21.2416	4.8675	402.0818	92.1375
3.0000	0.1250	1.0949	16.4652	3.7730	418.5471	95.9106
3.1250	0.1146	0.9582	3.5316	0.8093	422.0787	96.7198
3.2500	0.1051	0.8364	5.5692	1.2762	427.6479	97.9960
3.3750	0.0964	0.7282	3.0990	0.7101	430.7468	98.7061
3.5000	0.0884	0.6326	0.0000	0.0000	430.7468	98.7061
3.6250	0.0811	0.5484	0.1321	0.0303	430.8790	98.7364
3.7500	0.0743	0.4744	4.1372	0.9481	435.0162	99.6845
3.8750	0.0682	0.4098	1.3769	0.3155	436.3931	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	436.3931	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	436.3931	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	436.3931	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	436.3931	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	436.3931	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C25\_S2

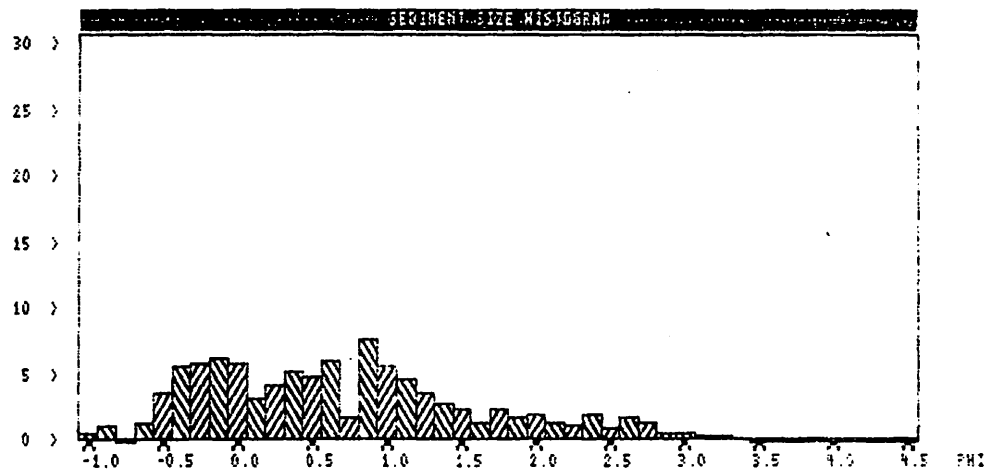
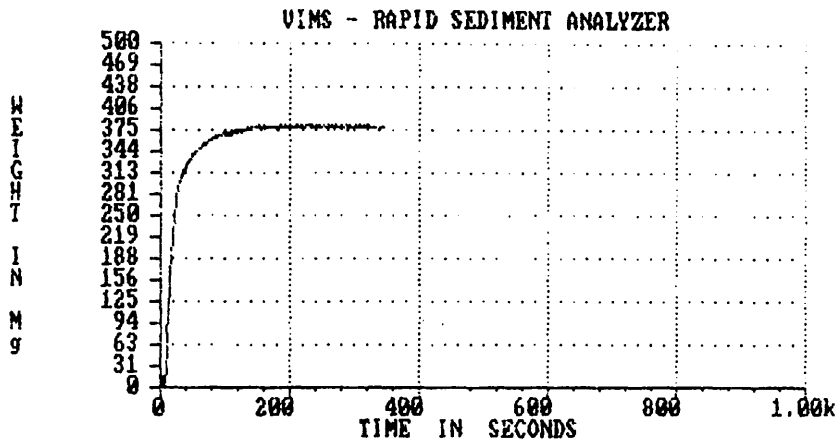
CORE 25 S-2 1.35-1.55M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
608.0096 Dry Sand Fraction Weight (mq)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
0.6616 0.9309 0.5941 2.7280 M1 M2 M3 M4 (phi)  
0.6396 0.5509 0.9562 0.2059 1.0209 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.8662	0.4983	1.8662	0.4983
-0.8750	1.8340	18.9156	4.6131	1.2318	6.4793	1.7302
-0.7500	1.6818	17.7631	0.0000	0.0000	6.4793	1.7302
-0.6250	1.5422	16.6582	5.2850	1.4113	11.7643	3.1414
-0.5000	1.4142	15.6003	13.4874	3.6016	25.2517	6.7430
-0.3750	1.2968	14.5884	21.2537	5.6754	46.5053	12.4184
-0.2500	1.1892	13.6217	21.7252	5.8013	68.2305	18.2197
-0.1250	1.0905	12.6995	23.3632	6.2387	91.5937	24.4585
0.0000	1.0000	11.8208	21.4371	5.7244	113.0308	30.1829
0.1250	0.9170	10.9848	11.6496	3.1108	124.6804	33.2937
0.2500	0.8409	10.1905	15.9438	4.2575	140.6243	37.5512
0.3750	0.7711	9.4370	19.4869	5.2036	160.1112	42.7549
0.5000	0.7071	8.7233	17.9434	4.7915	178.0546	47.5463
0.6250	0.6484	8.0484	22.5875	6.0316	200.6421	53.5779
0.7500	0.5946	7.4111	6.7546	1.8037	207.3967	55.3816
0.8750	0.5453	6.8104	28.8245	7.6971	236.2212	63.0787
1.0000	0.5000	6.2452	21.1470	5.6469	257.3682	68.7256
1.1250	0.4585	5.7143	16.8881	4.5097	274.2563	73.2353
1.2500	0.4204	5.2167	13.4339	3.5873	287.6902	76.8226
1.3750	0.3856	4.7510	10.1448	2.7090	297.8350	79.5316
1.5000	0.3536	4.3163	8.5665	2.2875	306.4015	81.8191
1.6250	0.3242	3.9113	5.3175	1.4199	311.7190	83.2391
1.7500	0.2973	3.5349	8.7306	2.3313	320.4496	85.5704
1.8750	0.2726	3.1860	6.8333	1.8247	327.2829	87.3951
2.0000	0.2500	2.8634	7.2704	1.9414	334.5533	89.3365
2.1250	0.2293	2.5660	5.3073	1.4172	339.8606	90.7538
2.2500	0.2102	2.2927	4.6845	1.2509	344.5451	92.0047
2.3750	0.1928	2.0423	7.1484	1.9089	351.6935	93.9135
2.5000	0.1768	1.8137	3.5192	0.9397	355.2127	94.8533
2.6250	0.1621	1.6058	6.5715	1.7548	361.7842	96.6081
2.7500	0.1487	1.4175	5.0409	1.3461	366.8251	97.9542
2.8750	0.1363	1.2476	1.7924	0.4786	368.6176	98.4328
3.0000	0.1250	1.0949	2.3880	0.6377	371.0055	99.0705
3.1250	0.1146	0.9582	1.2021	0.3210	372.2076	99.3915
3.2500	0.1051	0.8364	1.7037	0.4550	373.9114	99.8464
3.3750	0.0964	0.7282	0.4558	0.1217	374.3672	99.9681
3.5000	0.0884	0.6326	0.0000	0.0000	374.3672	99.9681
3.6250	0.0811	0.5484	0.0000	0.0000	374.3672	99.9681
3.7500	0.0743	0.4744	0.0000	0.0000	374.3672	99.9681
3.8750	0.0682	0.4098	0.1193	0.0319	374.4865	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	374.4865	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	374.4865	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	374.4865	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.4865	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.4865	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C25\_S3

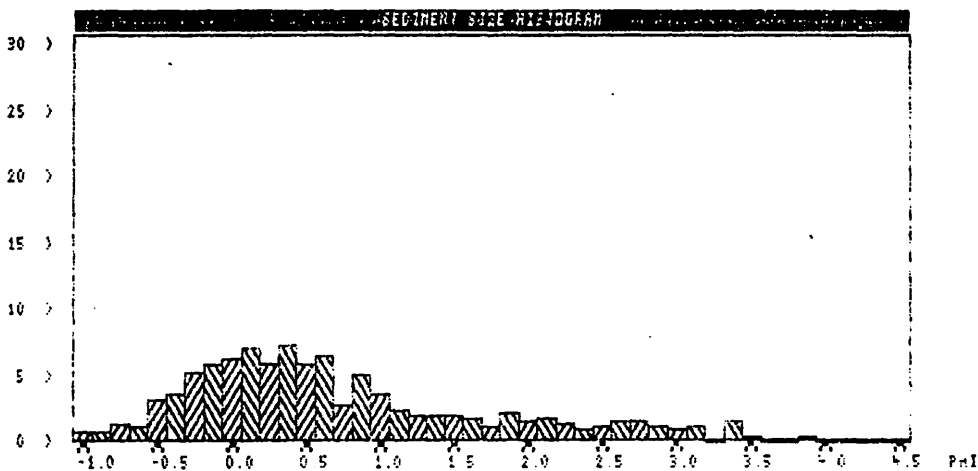
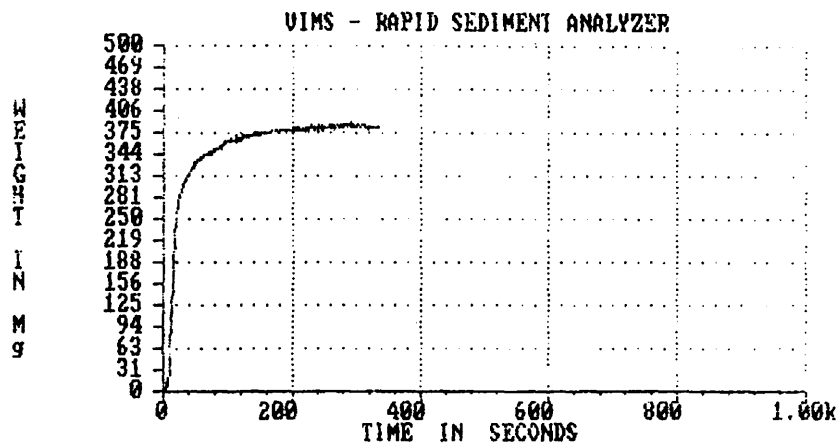
CORE 25 S-3 1.55-1.85

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
615.0613 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.6738 1.0247 0.9007 3.1398 M1 M2 M3 M4 (phi)  
0.6639 0.4139 1.0304 0.3839 1.1331 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.8161	0.7523	2.8161	0.7523
-0.8750	1.8340	18.9156	2.9693	0.7932	5.7855	1.5454
-0.7500	1.6818	17.7631	4.7614	1.2719	10.5469	2.8173
-0.6250	1.5422	16.6582	4.2079	1.1240	14.7548	3.9414
-0.5000	1.4142	15.6003	11.9183	3.1837	26.6731	7.1250
-0.3750	1.2968	14.5884	13.7260	3.6665	40.3992	10.7916
-0.2500	1.1892	13.6217	19.7881	5.2859	60.1873	16.0774
-0.1250	1.0905	12.6995	22.0920	5.9013	82.2792	21.9787
0.0000	1.0000	11.8208	23.2501	6.2106	105.5293	28.1893
0.1250	0.9170	10.9848	26.3548	7.0400	131.8842	35.2293
0.2500	0.8409	10.1905	21.6863	5.7929	153.5705	41.0223
0.3750	0.7711	9.4370	26.8866	7.1820	180.4571	48.2043
0.5000	0.7071	8.7233	21.6160	5.7741	202.0731	53.9784
0.6250	0.6484	8.0484	23.7109	6.3337	225.7840	60.3122
0.7500	0.5946	7.4111	10.4856	2.8009	236.2695	63.1131
0.8750	0.5453	6.8104	18.5918	4.9663	254.8613	68.0794
1.0000	0.5000	6.2452	13.1390	3.5097	268.0002	71.5891
1.1250	0.4585	5.7143	8.9228	2.3835	276.9231	73.9726
1.2500	0.4204	5.2167	7.2449	1.9353	284.1679	75.9079
1.3750	0.3856	4.7510	7.1629	1.9134	291.3309	77.8213
1.5000	0.3536	4.3163	7.2932	1.9482	298.6241	79.7694
1.6250	0.3242	3.9113	6.6851	1.7858	305.3092	81.5552
1.7500	0.2973	3.5349	4.0727	1.0879	309.3819	82.6431
1.8750	0.2726	3.1860	7.9792	2.1314	317.3611	84.7745
2.0000	0.2500	2.8634	5.8766	1.5698	323.2377	86.3443
2.1250	0.2293	2.5660	6.3901	1.7069	329.6278	88.0513
2.2500	0.2102	2.2927	5.0439	1.3474	334.6717	89.3986
2.3750	0.1928	2.0423	3.4248	0.9148	338.0965	90.3135
2.5000	0.1768	1.8137	4.3473	1.1613	342.4438	91.4747
2.6250	0.1621	1.6058	6.0833	1.6250	348.5271	93.0997
2.7500	0.1487	1.4175	6.0251	1.6094	354.5521	94.7091
2.8750	0.1363	1.2476	4.1018	1.0957	358.6540	95.8048
3.0000	0.1250	1.0949	3.3319	0.8900	361.9858	96.6948
3.1250	0.1146	0.9582	4.2472	1.1345	366.2330	97.8294
3.2500	0.1051	0.8364	0.0534	0.0143	366.2865	97.8437
3.3750	0.0964	0.7282	5.5824	1.4912	371.8689	99.3348
3.5000	0.0884	0.6326	1.0395	0.2777	372.9085	99.6125
3.6250	0.0811	0.5484	0.0000	0.0000	372.9085	99.6125
3.7500	0.0743	0.4744	0.0000	0.0000	372.9085	99.6125
3.8750	0.0682	0.4098	1.4505	0.3875	374.3590	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	374.3590	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	374.3590	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	374.3590	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.3590	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.3590	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C25\_S4

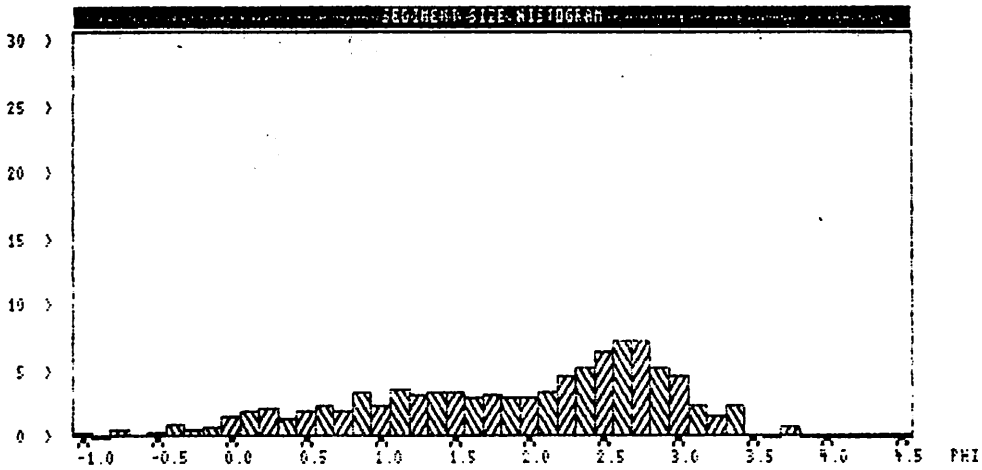
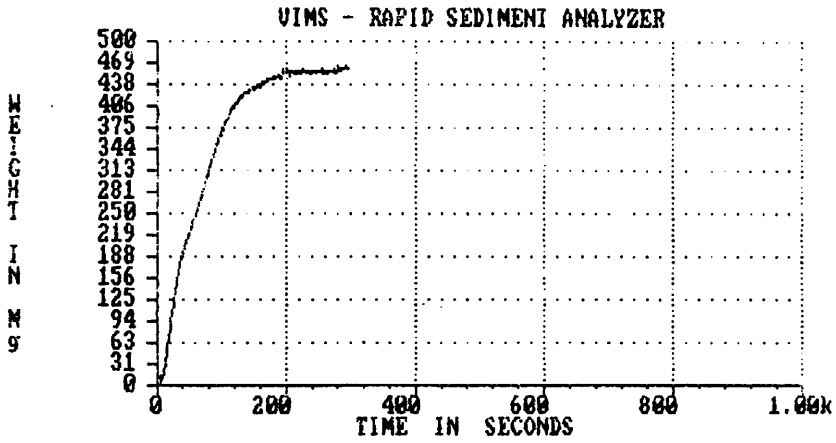
CORE 25 S-4 1.85-1.95M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
737.6818 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.8125 1.0041 -0.5500 2.4364 M1 M2 M3 M4 (phi)  
1.8419 2.0576 0.9998 -0.3134 0.5913 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.2989	0.2877	1.2989	0.2877
-0.8750	1.8340	18.9156	0.0000	0.0000	1.2989	0.2877
-0.7500	1.6818	17.7631	2.3718	0.5253	3.6707	0.8130
-0.6250	1.5422	16.6582	0.8221	0.1821	4.4928	0.9951
-0.5000	1.4142	15.6003	1.2120	0.2684	5.7048	1.2636
-0.3750	1.2968	14.5884	4.4175	0.9784	10.1223	2.2420
-0.2500	1.1892	13.6217	2.7095	0.6001	12.8318	2.8421
-0.1250	1.0905	12.6995	3.0649	0.6789	15.8968	3.5209
0.0000	1.0000	11.8208	7.4593	1.6522	23.3561	5.1731
0.1250	0.9170	10.9848	9.0029	1.9940	32.3590	7.1671
0.2500	0.8409	10.1905	9.5802	2.1219	41.9392	9.2890
0.3750	0.7711	9.4370	6.0537	1.3408	47.9929	10.6299
0.5000	0.7071	8.7233	9.3501	2.0709	57.3430	12.7008
0.6250	0.6484	8.0484	10.3948	2.3023	67.7378	15.0031
0.7500	0.5946	7.4111	9.1089	2.0175	76.8467	17.0206
0.8750	0.5453	6.8104	15.2708	3.3823	92.1175	20.4029
1.0000	0.5000	6.2452	11.0693	2.4517	103.1868	22.8547
1.1250	0.4585	5.7143	16.5064	3.6560	119.6932	26.5106
1.2500	0.4204	5.2167	14.4096	3.1916	134.1028	29.7022
1.3750	0.3856	4.7510	15.4638	3.4250	149.5666	33.1272
1.5000	0.3536	4.3163	15.3298	3.3954	164.8964	36.5226
1.6250	0.3242	3.9113	13.3428	2.9553	178.2392	39.4779
1.7500	0.2973	3.5349	14.1014	3.1233	192.3406	42.6012
1.8750	0.2726	3.1860	13.2333	2.9310	205.5738	45.5322
2.0000	0.2500	2.8634	13.1935	2.9222	218.7673	48.4544
2.1250	0.2293	2.5660	15.1352	3.3523	233.9025	51.8066
2.2500	0.2102	2.2927	20.5985	4.5623	254.5010	56.3690
2.3750	0.1928	2.0423	23.8304	5.2781	278.3314	61.6471
2.5000	0.1768	1.8137	29.3106	6.4920	307.6420	68.1391
2.6250	0.1621	1.6058	32.7730	7.2588	340.4150	75.3979
2.7500	0.1487	1.4175	32.9532	7.2987	373.3682	82.6966
2.8750	0.1363	1.2476	23.5456	5.2151	396.9138	87.9117
3.0000	0.1250	1.0949	20.8658	4.6215	417.7796	92.5332
3.1250	0.1146	0.9582	10.8611	2.4056	428.6407	94.9388
3.2500	0.1051	0.8364	7.5426	1.6706	436.1833	96.6095
3.3750	0.0964	0.7282	11.1720	2.4745	447.3553	99.0839
3.5000	0.0884	0.6326	0.6410	0.1420	447.9964	99.2259
3.6250	0.0811	0.5484	0.0000	0.0000	447.9964	99.2259
3.7500	0.0743	0.4744	3.4950	0.7741	451.4914	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	451.4914	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	451.4914	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	451.4914	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	451.4914	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	451.4914	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	451.4914	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C25\_S5

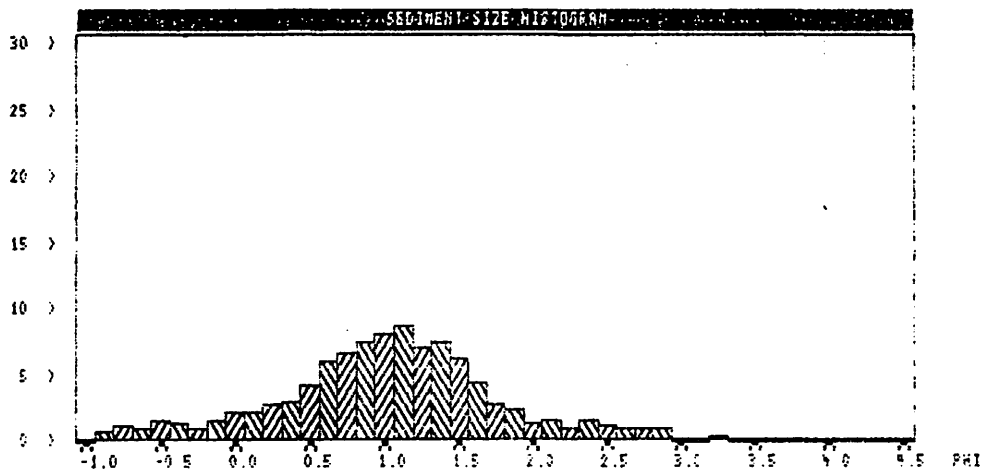
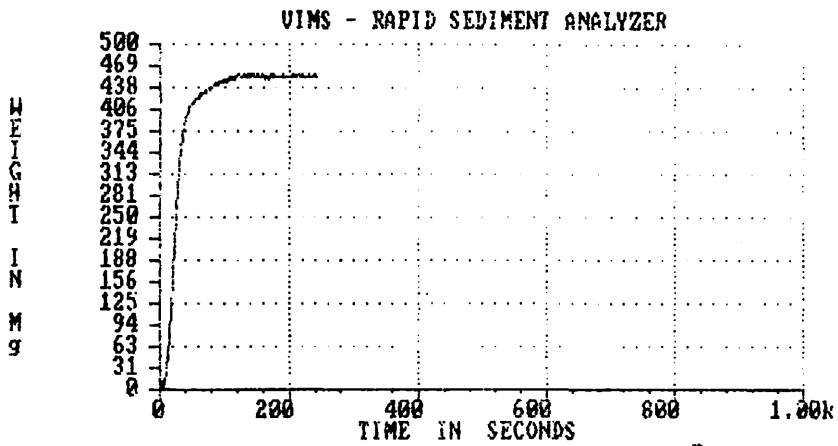
CORE 25 S-5 1.95-2.55M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
725.1455    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
0.9682    0.7549    -0.0222    3.3275    M1 M2 M3 M4 (phi)  
0.9565    0.9889    0.7552    -0.0527    0.9744    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	3.2221	0.7186	3.2221	0.7186
-0.7500	1.6818	17.7631	5.3536	1.1940	8.5756	1.9126
-0.6250	1.5422	16.6582	4.3865	0.9783	12.9621	2.8909
-0.5000	1.4142	15.6003	6.7882	1.5139	19.7503	4.4048
-0.3750	1.2968	14.5884	6.3077	1.4068	26.0580	5.8116
-0.2500	1.1892	13.6217	4.0516	0.9036	30.1096	6.7152
-0.1250	1.0905	12.6995	6.8334	1.5240	36.9430	8.2393
0.0000	1.0000	11.8208	9.9036	2.2088	46.8467	10.4480
0.1250	0.9170	10.9848	9.9140	2.2111	56.7606	12.6591
0.2500	0.8409	10.1905	12.5429	2.7974	69.3036	15.4565
0.3750	0.7711	9.4370	13.4035	2.9893	82.7071	18.4459
0.5000	0.7071	8.7233	18.4291	4.1102	101.1362	22.5560
0.6250	0.6484	8.0484	27.0892	6.0416	128.2254	28.5976
0.7500	0.5946	7.4111	30.0344	6.6985	158.2598	35.2961
0.8750	0.5453	6.8104	33.4894	7.4690	191.7492	42.7651
1.0000	0.5000	6.2452	35.6029	7.9404	227.3521	50.7055
1.1250	0.4585	5.7143	38.7441	8.6409	266.0962	59.3464
1.2500	0.4204	5.2167	31.9611	7.1282	298.0573	66.4746
1.3750	0.3856	4.7510	33.6200	7.4982	331.6773	73.9727
1.5000	0.3536	4.3163	28.1026	6.2676	359.7799	80.2403
1.6250	0.3242	3.9113	19.5360	4.3570	379.3159	84.5974
1.7500	0.2973	3.5349	12.8822	2.8731	392.1981	87.4705
1.8750	0.2726	3.1860	10.9715	2.4469	403.1697	89.9174
2.0000	0.2500	2.8634	6.2896	1.4027	409.4593	91.3201
2.1250	0.2293	2.5660	7.4617	1.6641	416.9209	92.9843
2.2500	0.2102	2.2927	4.2619	0.9505	421.1829	93.9348
2.3750	0.1928	2.0423	7.0757	1.5781	428.2586	95.5129
2.5000	0.1768	1.8137	5.4457	1.2145	433.7043	96.7274
2.6250	0.1621	1.6058	4.7517	1.0598	438.4560	97.7872
2.7500	0.1487	1.4175	3.9697	0.8853	442.4257	98.6725
2.8750	0.1363	1.2476	4.2888	0.9565	446.7145	99.6290
3.0000	0.1250	1.0949	0.0000	0.0000	446.7145	99.6290
3.1250	0.1146	0.9582	0.0000	0.0000	446.7145	99.6290
3.2500	0.1051	0.8364	1.6633	0.3710	448.3778	100.0000
3.3750	0.0964	0.7282	0.0000	0.0000	448.3778	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	448.3778	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	448.3778	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	448.3778	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	448.3778	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	448.3778	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	448.3778	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	448.3778	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	448.3778	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	448.3778	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C25\_S10

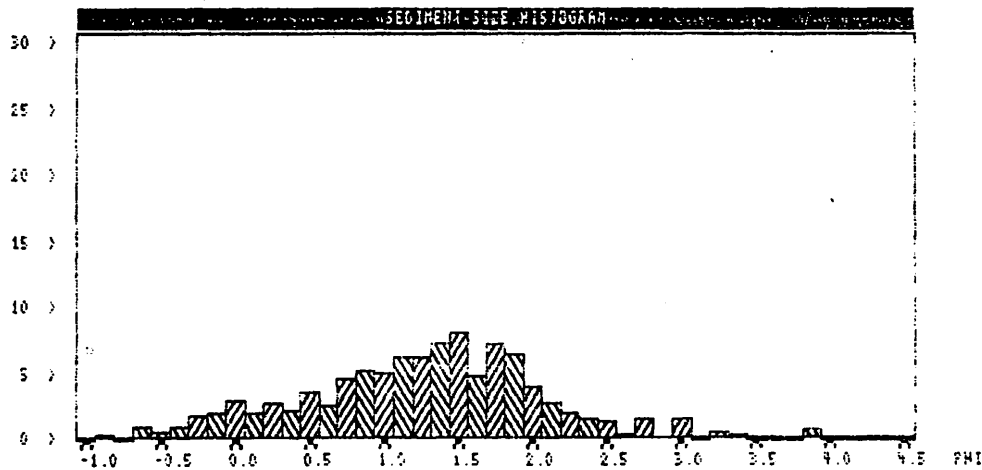
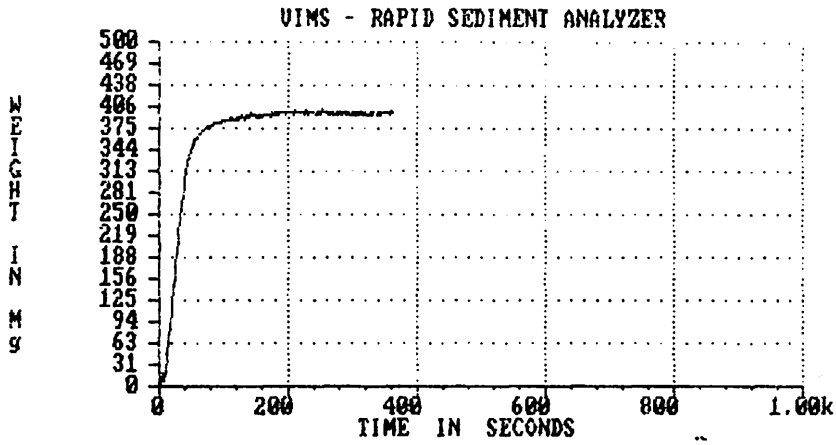
CORE 25 S-10 3.30-4.28M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
638.1750    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$   
1.2019    0.8207    0.0745    3.2832    M1 M2 M3 M4 (phi)  
1.1729    1.2571    0.8087    -0.1079    0.7959    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.0343	0.2652	1.0343	0.2652
-0.7500	1.6818	17.7631	0.0000	0.0000	1.0343	0.2652
-0.6250	1.5422	16.6582	4.0239	1.0316	5.0582	1.2968
-0.5000	1.4142	15.6003	1.9001	0.4871	6.9583	1.7839
-0.3750	1.2968	14.5884	3.4353	0.8807	10.3936	2.6646
-0.2500	1.1892	13.6217	6.7218	1.7232	17.1154	4.3878
-0.1250	1.0905	12.6995	7.3315	1.8795	24.4469	6.2674
0.0000	1.0000	11.8208	11.9892	3.0736	36.4361	9.3410
0.1250	0.9170	10.9848	7.6864	1.9705	44.1226	11.3115
0.2500	0.8409	10.1905	11.1993	2.8711	55.3218	14.1826
0.3750	0.7711	9.4370	8.2174	2.1067	63.5392	16.2893
0.5000	0.7071	8.7233	14.0937	3.6131	77.6329	19.9024
0.6250	0.6484	8.0484	9.7152	2.4907	87.3482	22.3931
0.7500	0.5946	7.4111	17.7976	4.5627	105.1458	26.9558
0.8750	0.5453	6.8104	19.9895	5.1246	125.1353	32.0804
1.0000	0.5000	6.2452	19.6279	5.0319	144.7632	37.1123
1.1250	0.4585	5.7143	24.2473	6.2162	169.0105	43.3285
1.2500	0.4204	5.2167	24.4333	6.2639	193.4438	49.5924
1.3750	0.3856	4.7510	27.9822	7.1737	221.4260	56.7661
1.5000	0.3536	4.3163	31.4381	8.0596	252.8640	64.8257
1.6250	0.3242	3.9113	18.4616	4.7329	271.3256	69.5586
1.7500	0.2973	3.5349	27.8115	7.1299	299.1371	76.6886
1.8750	0.2726	3.1860	24.8311	6.3658	323.9682	83.0544
2.0000	0.2500	2.8634	15.9611	4.0919	339.9294	87.1463
2.1250	0.2293	2.5660	10.8683	2.7863	350.7977	89.9326
2.2500	0.2102	2.2927	7.3634	1.8877	358.1611	91.8203
2.3750	0.1928	2.0423	6.3132	1.6185	364.4743	93.4388
2.5000	0.1768	1.8137	5.3601	1.3741	369.8344	94.8129
2.6250	0.1621	1.6058	1.1800	0.3025	371.0144	95.1154
2.7500	0.1487	1.4175	5.8903	1.5101	376.9047	96.6255
2.8750	0.1363	1.2476	0.3679	0.0943	377.2726	96.7198
3.0000	0.1250	1.0949	5.9935	1.5365	383.2661	98.2564
3.1250	0.1146	0.9582	0.0000	0.0000	383.2661	98.2564
3.2500	0.1051	0.8364	2.4183	0.6200	385.6843	98.8763
3.3750	0.0964	0.7282	1.6026	0.4108	387.2869	99.2872
3.5000	0.0884	0.6326	0.0000	0.0000	387.2869	99.2872
3.6250	0.0811	0.5484	0.0000	0.0000	387.2869	99.2872
3.7500	0.0743	0.4744	0.0000	0.0000	387.2869	99.2872
3.8750	0.0682	0.4098	2.7806	0.7128	390.0675	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	390.0675	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	390.0675	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	390.0675	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	390.0675	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	390.0675	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C26\_S1

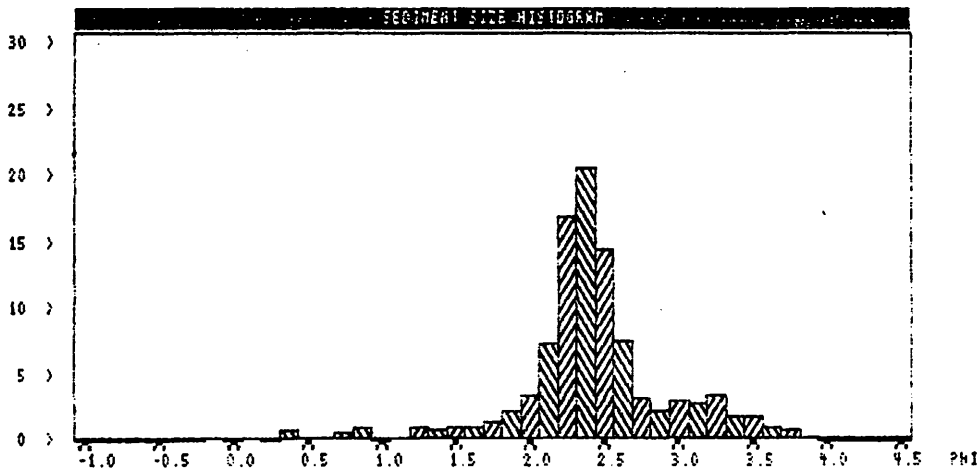
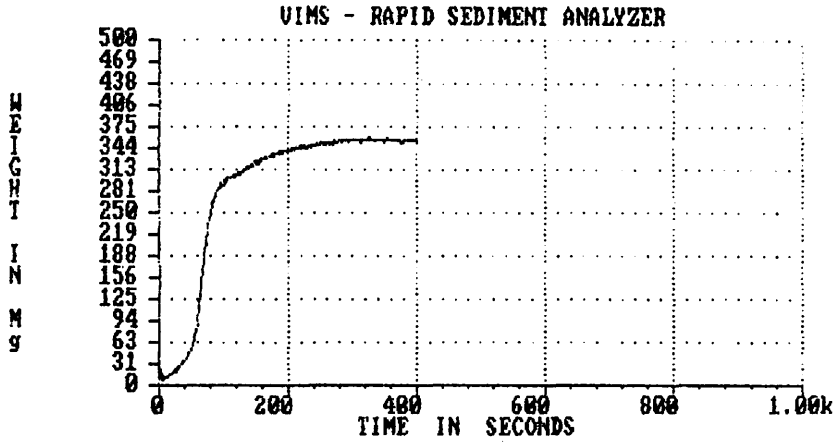
CORE 26 S-1 0-1.71M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
567.6585 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.3434 0.5448 -0.7411 6.3497 M1 M2 M3 M4 (phi)  
2.3863 2.3245 0.4762 0.1284 0.4656 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0741	0.0215	0.0741	0.0215
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0741	0.0215
-0.6250	1.5422	16.6582	0.1067	0.0310	0.1807	0.0525
-0.5000	1.4142	15.6003	0.0000	0.0000	0.1807	0.0525
-0.3750	1.2968	14.5884	0.0000	0.0000	0.1807	0.0525
-0.2500	1.1892	13.6217	0.0000	0.0000	0.1807	0.0525
-0.1250	1.0905	12.6995	0.2837	0.0825	0.4644	0.1350
0.0000	1.0000	11.8208	0.0000	0.0000	0.4644	0.1350
0.1250	0.9170	10.9848	0.5919	0.1721	1.0564	0.3072
0.2500	0.8409	10.1905	0.0107	0.0031	1.0671	0.3103
0.3750	0.7711	9.4370	2.4221	0.7042	3.4891	1.0145
0.5000	0.7071	8.7233	0.8064	0.2345	4.2955	1.2490
0.6250	0.6484	8.0484	0.3666	0.1066	4.6621	1.3556
0.7500	0.5946	7.4111	1.6739	0.4867	6.3360	1.8423
0.8750	0.5453	6.8104	3.4230	0.9953	9.7590	2.8375
1.0000	0.5000	6.2452	0.1412	0.0410	9.9002	2.8786
1.1250	0.4585	5.7143	0.6835	0.1987	10.5837	3.0773
1.2500	0.4204	5.2167	3.2637	0.9490	13.8474	4.0263
1.3750	0.3856	4.7510	2.8360	0.8246	16.6834	4.8509
1.5000	0.3536	4.3163	3.1128	0.9051	19.7962	5.7560
1.6250	0.3242	3.9113	3.6005	1.0469	23.3966	6.8029
1.7500	0.2973	3.5349	5.0208	1.4599	28.4175	8.2627
1.8750	0.2726	3.1860	7.6185	2.2152	36.0360	10.4779
2.0000	0.2500	2.8634	11.8974	3.4593	47.9334	13.9372
2.1250	0.2293	2.5660	24.7800	7.2051	72.7134	21.1423
2.2500	0.2102	2.2927	57.3485	16.6748	130.0619	37.8170
2.3750	0.1928	2.0423	70.2725	20.4326	200.3345	58.2496
2.5000	0.1768	1.8137	49.1033	14.2774	249.4378	72.5270
2.6250	0.1621	1.6058	25.5509	7.4292	274.9886	79.9562
2.7500	0.1487	1.4175	10.8869	3.1655	285.8756	83.1217
2.8750	0.1363	1.2476	7.7942	2.2663	293.6697	85.3879
3.0000	0.1250	1.0949	10.5776	3.0756	304.2474	88.4635
3.1250	0.1146	0.9582	9.4802	2.7565	313.7276	91.2200
3.2500	0.1051	0.8364	11.5958	3.3716	325.3233	94.5916
3.3750	0.0964	0.7282	5.8532	1.7019	331.1765	96.2935
3.5000	0.0884	0.6326	6.2418	1.8149	337.4183	98.1083
3.6250	0.0811	0.5484	3.2806	0.9539	340.6989	99.0622
3.7500	0.0743	0.4744	2.5574	0.7436	343.2563	99.8058
3.8750	0.0682	0.4098	0.6679	0.1942	343.9242	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	343.9242	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	343.9242	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	343.9242	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	343.9242	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	343.9242	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C26\_S3

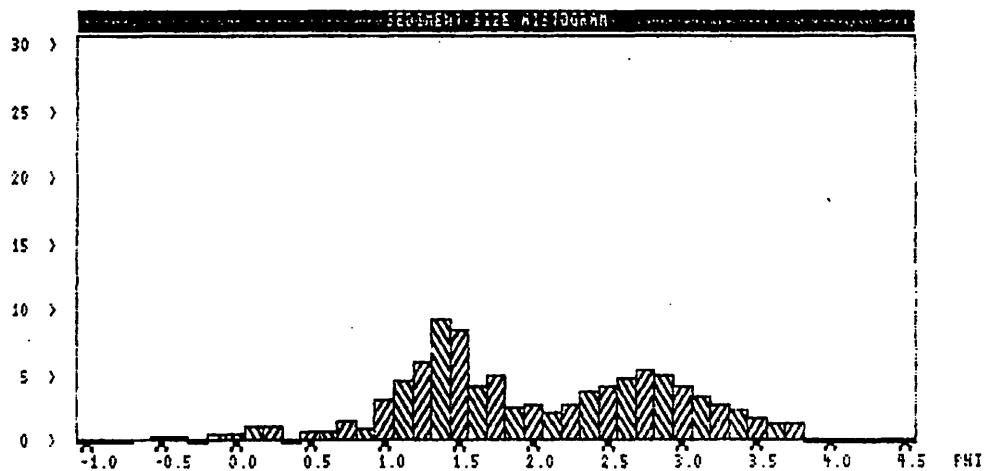
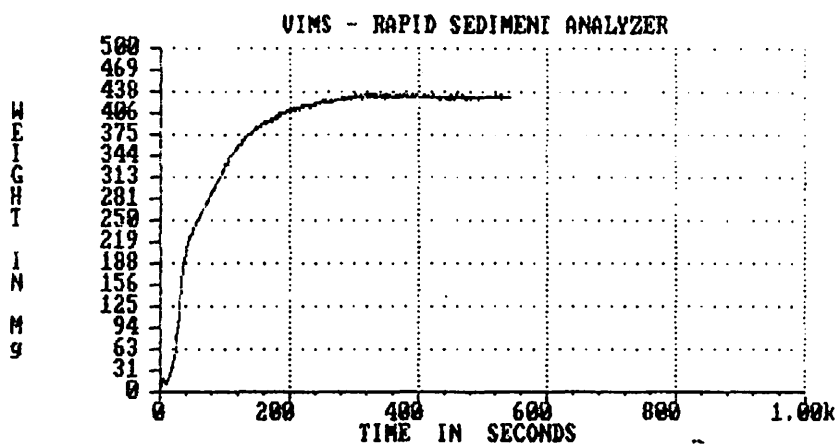
CORE 26 S\_3 2.40-2.53M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
687.5366 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.9379 0.8932 -0.0981 2.4145 M1 M2 M3 M4 (phi)  
1.9493 1.8049 0.8733 0.1714 0.5329 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.3157	0.0753	0.3157	0.0753
-0.5000	1.4142	15.6003	1.2210	0.2914	1.5367	0.3667
-0.3750	1.2968	14.5884	1.1881	0.2835	2.7247	0.6503
-0.2500	1.1892	13.6217	0.0000	0.0000	2.7247	0.6503
-0.1250	1.0905	12.6995	2.5827	0.6164	5.3074	1.2667
0.0000	1.0000	11.8208	2.3423	0.5590	7.6498	1.8257
0.1250	0.9170	10.9848	4.5803	1.0931	12.2301	2.9188
0.2500	0.8409	10.1905	4.7715	1.1388	17.0016	4.0576
0.3750	0.7711	9.4370	0.0000	0.0000	17.0016	4.0576
0.5000	0.7071	8.7233	2.9415	0.7020	19.9431	4.7596
0.6250	0.6484	8.0484	3.1334	0.7478	23.0765	5.5074
0.7500	0.5946	7.4111	6.6504	1.5872	29.7269	7.0946
0.8750	0.5453	6.8104	4.0912	0.9764	33.8181	8.0710
1.0000	0.5000	6.2452	13.3258	3.1803	47.1439	11.2513
1.1250	0.4585	5.7143	19.4284	4.6368	66.5722	15.8881
1.2500	0.4204	5.2167	25.4160	6.0658	91.9882	21.9538
1.3750	0.3856	4.7510	38.8093	9.2622	130.7975	31.2160
1.5000	0.3536	4.3163	35.6160	8.5001	166.4136	39.7161
1.6250	0.3242	3.9113	17.2613	4.1196	183.6748	43.8356
1.7500	0.2973	3.5349	20.9259	4.9941	204.6007	48.8298
1.8750	0.2726	3.1860	11.1591	2.6632	215.7599	51.4930
2.0000	0.2500	2.8634	11.7484	2.8039	227.5083	54.2969
2.1250	0.2293	2.5660	9.1932	2.1940	236.7015	56.4909
2.2500	0.2102	2.2927	11.9271	2.8465	248.6286	59.3374
2.3750	0.1928	2.0423	15.9929	3.8169	264.6215	63.1543
2.5000	0.1768	1.8137	17.2570	4.1185	281.8785	67.2728
2.6250	0.1621	1.6058	20.1343	4.8052	302.0129	72.0780
2.7500	0.1487	1.4175	22.8041	5.4424	324.8169	77.5204
2.8750	0.1363	1.2476	21.3921	5.1054	346.2090	82.6258
3.0000	0.1250	1.0949	17.6590	4.2145	363.8680	86.8403
3.1250	0.1146	0.9582	14.1157	3.3688	377.9837	90.2091
3.2500	0.1051	0.8364	11.8974	2.8394	389.8812	93.0486
3.3750	0.0964	0.7282	9.9420	2.3727	399.8232	95.4213
3.5000	0.0884	0.6326	7.5743	1.8077	407.3975	97.2290
3.6250	0.0811	0.5484	6.0474	1.4433	413.4448	98.6722
3.7500	0.0743	0.4744	5.5634	1.3278	419.0082	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	419.0082	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	419.0082	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	419.0082	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	419.0082	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	419.0082	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	419.0082	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C27\_S1

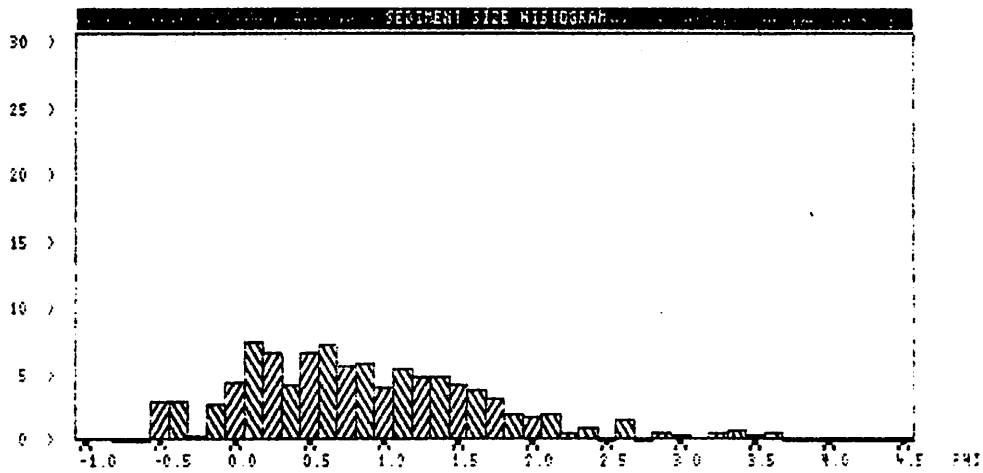
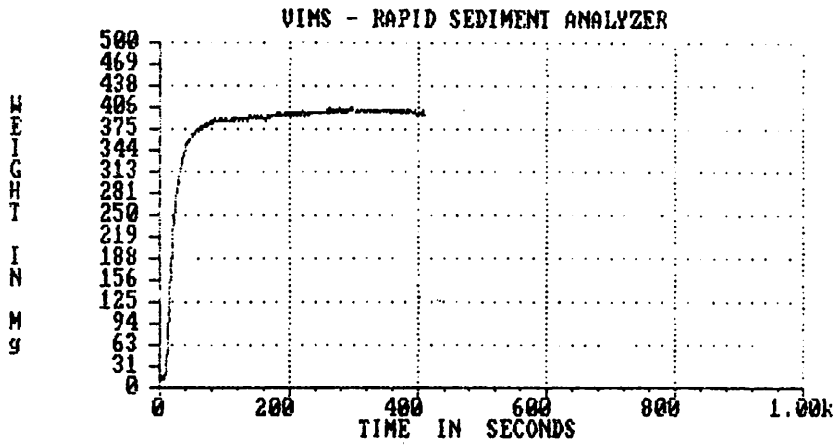
CORE 27 S-1 0-10CM

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
633.0822 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.8251 0.8383 0.7378 3.6006 M1 M2 M3 M4 (phi)  
0.7828 0.7098 0.8153 0.1610 0.9099 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.4007	0.1035	0.4007	0.1035
-0.8750	1.8340	18.9156	0.5043	0.1302	0.9049	0.2337
-0.7500	1.6818	17.7631	0.0000	0.0000	0.9049	0.2337
-0.6250	1.5422	16.6582	0.0897	0.0232	0.9946	0.2569
-0.5000	1.4142	15.6003	11.6285	3.0036	12.6231	3.2605
-0.3750	1.2968	14.5884	11.8715	3.0664	24.4946	6.3269
-0.2500	1.1892	13.6217	1.6191	0.4182	26.1137	6.7451
-0.1250	1.0905	12.6995	10.9983	2.8408	37.1120	9.5860
0.0000	1.0000	11.8208	17.2099	4.4453	54.3220	14.0312
0.1250	0.9170	10.9848	28.6002	7.3874	82.9222	21.4186
0.2500	0.8409	10.1905	25.9560	6.7044	108.8782	28.1230
0.3750	0.7711	9.4370	16.0953	4.1574	124.9736	32.2804
0.5000	0.7071	8.7233	26.0298	6.7234	151.0034	39.0039
0.6250	0.6484	8.0484	27.7556	7.1692	178.7590	46.1731
0.7500	0.5946	7.4111	21.8305	5.6388	200.5895	51.8118
0.8750	0.5453	6.8104	22.2746	5.7535	222.8641	57.5653
1.0000	0.5000	6.2452	15.4157	3.9818	238.2798	61.5472
1.1250	0.4585	5.7143	21.2650	5.4927	259.5448	67.0399
1.2500	0.4204	5.2167	18.3453	4.7386	277.8902	71.7784
1.3750	0.3856	4.7510	18.5645	4.7952	296.4547	76.5736
1.5000	0.3536	4.3163	16.1993	4.1843	312.6540	80.7579
1.6250	0.3242	3.9113	14.8914	3.8464	327.5454	84.6043
1.7500	0.2973	3.5349	12.2485	3.1638	339.7940	87.7681
1.8750	0.2726	3.1860	7.9224	2.0463	347.7164	89.8144
2.0000	0.2500	2.8634	6.6303	1.7126	354.3466	91.5270
2.1250	0.2293	2.5660	7.8127	2.0180	362.1594	93.5450
2.2500	0.2102	2.2927	2.2384	0.5782	364.3978	94.1232
2.3750	0.1928	2.0423	3.9238	1.0135	368.3216	95.1367
2.5000	0.1768	1.8137	0.0000	0.0000	368.3216	95.1367
2.6250	0.1621	1.6058	6.2220	1.6071	374.5436	96.7438
2.7500	0.1487	1.4175	0.0000	0.0000	374.5436	96.7438
2.8750	0.1363	1.2476	2.3922	0.6179	376.9359	97.3617
3.0000	0.1250	1.0949	1.5358	0.3967	378.4716	97.7584
3.1250	0.1146	0.9582	0.3377	0.0872	378.8093	97.8456
3.2500	0.1051	0.8364	1.9166	0.4951	380.7259	98.3407
3.3750	0.0964	0.7282	2.8643	0.7398	383.5902	99.0805
3.5000	0.0884	0.6326	1.6880	0.4360	385.2782	99.5165
3.6250	0.0811	0.5484	1.8717	0.4835	387.1499	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	387.1499	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	387.1499	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	387.1499	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	387.1499	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	387.1499	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	387.1499	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	387.1499	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

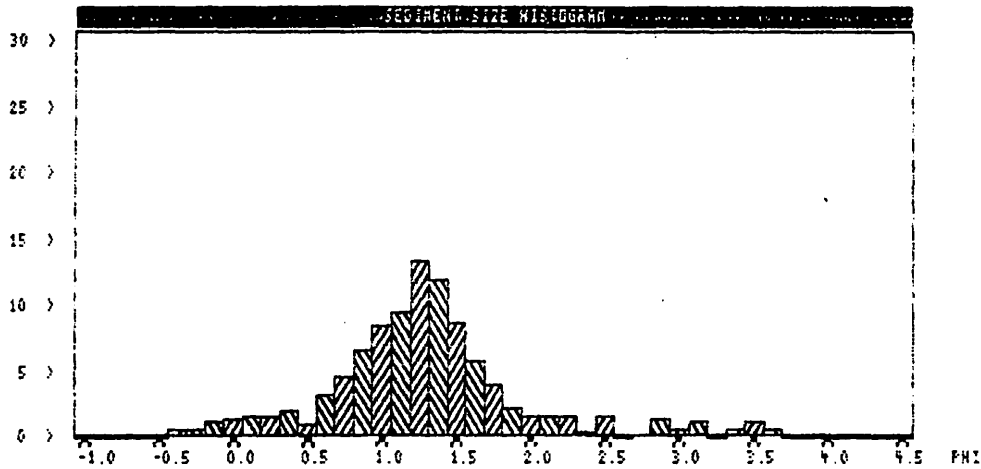
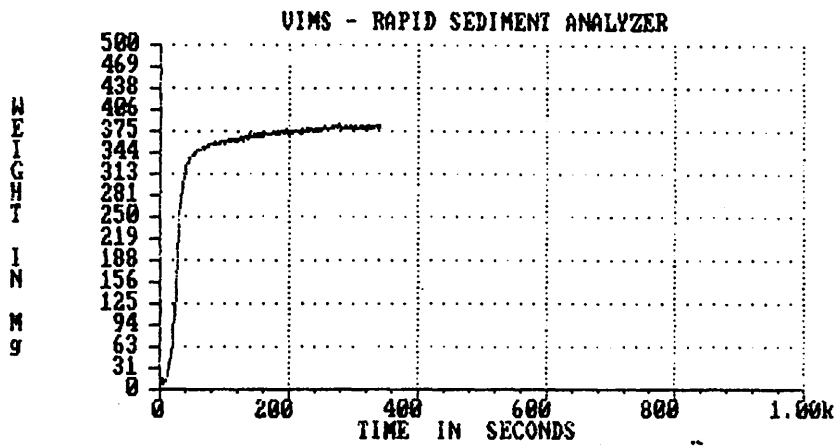


C27\_S3  
 CORE 27 S-3 25-45CM  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 609.1849 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 1.2432 0.6970 0.8148 4.8592 M1 M2 M3 M4 (phi)  
 1.2011 1.1985 0.6603 0.0976 0.9877 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.7732	0.4801	1.7732	0.4801
-0.2500	1.1892	13.6217	2.3016	0.6231	4.0748	1.1032
-0.1250	1.0905	12.6995	4.4258	1.1982	8.5007	2.3015
0.0000	1.0000	11.8208	5.2929	1.4330	13.7936	3.7344
0.1250	0.9170	10.9848	5.9934	1.6226	19.7870	5.3571
0.2500	0.8409	10.1905	5.5309	1.4974	25.3179	6.8545
0.3750	0.7711	9.4370	7.5881	2.0544	32.9060	8.9089
0.5000	0.7071	8.7233	3.6652	0.9923	36.5712	9.9012
0.6250	0.6484	8.0484	11.7088	3.1700	48.2801	13.0712
0.7500	0.5946	7.4111	17.3204	4.6893	65.6004	17.7605
0.8750	0.5453	6.8104	24.1200	6.5302	89.7204	24.2907
1.0000	0.5000	6.2452	31.3297	8.4821	121.0502	32.7729
1.1250	0.4585	5.7143	34.7865	9.4180	155.8367	42.1909
1.2500	0.4204	5.2167	49.0356	13.2758	204.8723	55.4667
1.3750	0.3856	4.7510	43.6280	11.8118	248.5003	67.2784
1.5000	0.3536	4.3163	31.6801	8.5770	280.1804	75.8554
1.6250	0.3242	3.9113	21.1832	5.7351	301.3637	81.5905
1.7500	0.2973	3.5349	14.5176	3.9305	315.8813	85.5210
1.8750	0.2726	3.1860	8.1006	2.1931	323.9818	87.7141
2.0000	0.2500	2.8634	5.8568	1.5857	329.8387	89.2998
2.1250	0.2293	2.5660	6.1417	1.6628	335.9804	90.9626
2.2500	0.2102	2.2927	5.4573	1.4775	341.4377	92.4401
2.3750	0.1928	2.0423	1.1517	0.3118	342.5894	92.7519
2.5000	0.1768	1.8137	5.4869	1.4855	348.0763	94.2374
2.6250	0.1621	1.6058	0.1989	0.0539	348.2752	94.2913
2.7500	0.1487	1.4175	0.2227	0.0603	348.4980	94.3516
2.8750	0.1363	1.2476	5.1771	1.4016	353.6751	95.7532
3.0000	0.1250	1.0949	2.1149	0.5726	355.7900	96.3258
3.1250	0.1146	0.9582	4.6601	1.2617	360.4501	97.5874
3.2500	0.1051	0.8364	0.0000	0.0000	360.4501	97.5874
3.3750	0.0964	0.7282	2.3551	0.6376	362.8051	98.2251
3.5000	0.0884	0.6326	4.5348	1.2278	367.3400	99.4528
3.6250	0.0811	0.5484	2.0211	0.5472	369.3611	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	369.3611	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	369.3611	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	369.3611	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	369.3611	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	369.3611	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.3611	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.3611	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C27\_S4

CORE 27 S-4

VA BEACH 45-53CM

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

533.1837 Dry Sand Fraction Weight (mg)

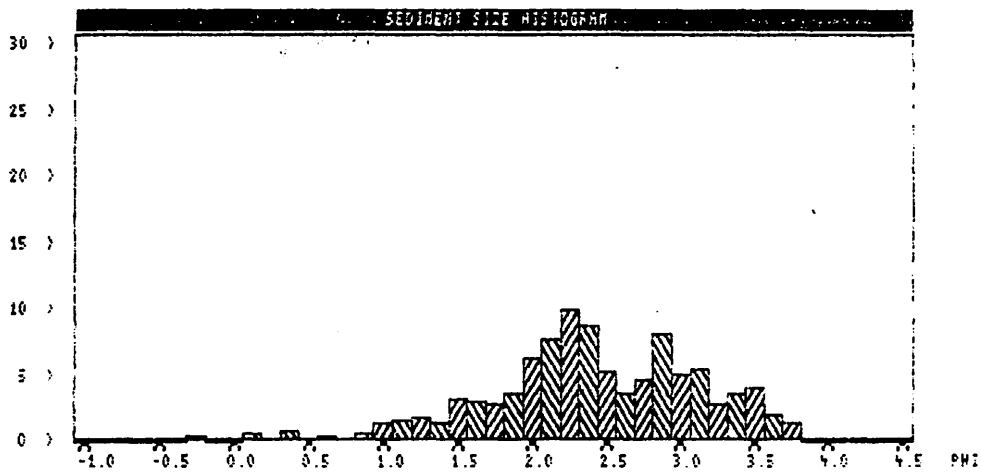
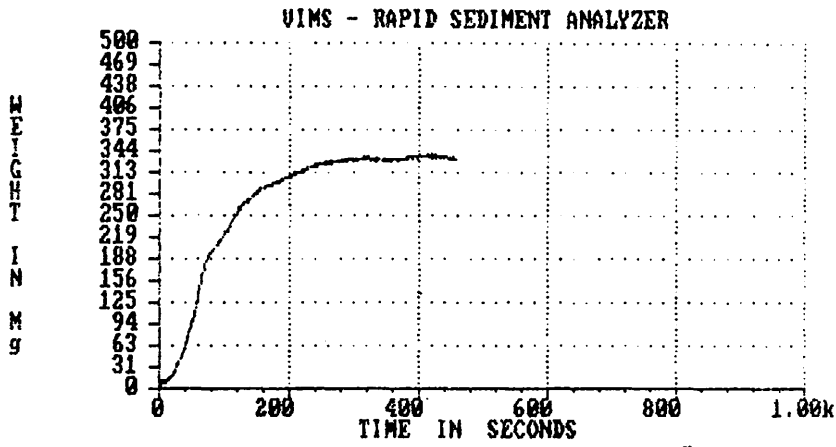
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$

2.3315 0.7351 -0.5642 3.5083 M1 M2 M3 M4 (phi)

2.3462 2.3141 0.7251 0.0023 0.4803 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0862	0.0266	0.0862	0.0266
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0862	0.0266
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0862	0.0266
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0862	0.0266
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0862	0.0266
-0.2500	1.1892	13.6217	0.9601	0.2965	1.0462	0.3232
-0.1250	1.0905	12.6995	0.0000	0.0000	1.0462	0.3232
0.0000	1.0000	11.8208	0.0000	0.0000	1.0462	0.3232
0.1250	0.9170	10.9848	1.9835	0.6127	3.0297	0.9358
0.2500	0.8409	10.1905	0.4881	0.1508	3.5178	1.0866
0.3750	0.7711	9.4370	2.6637	0.8228	6.1815	1.9094
0.5000	0.7071	8.7233	0.6814	0.2105	6.8629	2.1198
0.6250	0.6484	8.0484	1.2186	0.3764	8.0815	2.4962
0.7500	0.5946	7.4111	0.6461	0.1996	8.7277	2.6958
0.8750	0.5453	6.8104	1.7584	0.5431	10.4861	3.2390
1.0000	0.5000	6.2452	4.7124	1.4556	15.1984	4.6945
1.1250	0.4585	5.7143	4.8824	1.5081	20.0809	6.2026
1.2500	0.4204	5.2167	5.8741	1.8144	25.9549	8.0170
1.3750	0.3856	4.7510	4.5068	1.3921	30.4617	9.4091
1.5000	0.3536	4.3163	10.2645	3.1705	40.7262	12.5796
1.6250	0.3242	3.9113	9.4812	2.9286	50.2074	15.5082
1.7500	0.2973	3.5349	9.0344	2.7906	59.2418	18.2987
1.8750	0.2726	3.1860	11.4366	3.5326	70.6784	21.8313
2.0000	0.2500	2.8634	20.1116	6.2121	90.7900	28.0434
2.1250	0.2293	2.5660	24.9009	7.6915	115.6909	35.7349
2.2500	0.2102	2.2927	31.8625	9.8418	147.5534	45.5767
2.3750	0.1928	2.0423	27.9212	8.6244	175.4746	54.2011
2.5000	0.1768	1.8137	16.7674	5.1792	192.2420	59.3802
2.6250	0.1621	1.6058	11.8865	3.6715	204.1285	63.0517
2.7500	0.1487	1.4175	15.0164	4.6383	219.1449	67.6900
2.8750	0.1363	1.2476	25.8905	7.9971	245.0354	75.6872
3.0000	0.1250	1.0949	16.2535	5.0204	261.2889	80.7076
3.1250	0.1146	0.9582	17.2302	5.3221	278.5191	86.0297
3.2500	0.1051	0.8364	9.2720	2.8640	287.7911	88.8937
3.3750	0.0964	0.7282	11.8990	3.6754	299.6901	92.5691
3.5000	0.0884	0.6326	12.9656	4.0049	312.6558	96.5739
3.6250	0.0811	0.5484	6.4415	1.9897	319.0972	98.5636
3.7500	0.0743	0.4744	4.6504	1.4364	323.7476	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	323.7476	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	323.7476	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	323.7476	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	323.7476	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	323.7476	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	323.7476	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C27\_S5

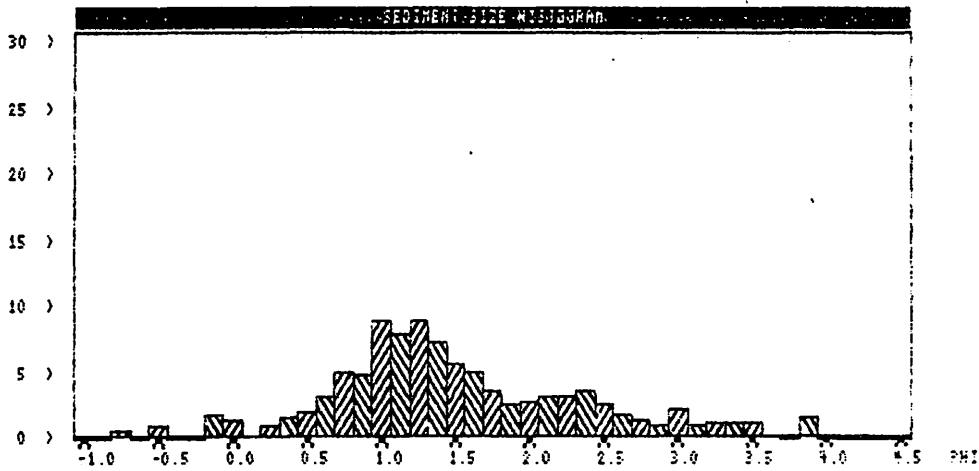
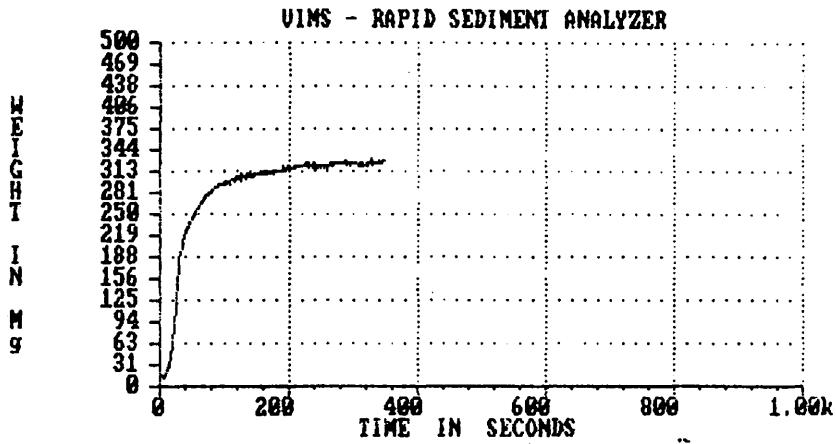
CORE 27 S-5 61-64CM

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
524.5650    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.4606    0.8832    0.4455    3.2007    M1 M2 M3 M4 (phi)  
1.4543    1.2919    0.8695    0.2722    0.7528    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.6883	0.5353	1.6883	0.5353
-0.6250	1.5422	16.6582	0.0000	0.0000	1.6883	0.5353
-0.5000	1.4142	15.6003	3.1394	0.9955	4.8277	1.5308
-0.3750	1.2968	14.5884	0.0000	0.0000	4.8277	1.5308
-0.2500	1.1892	13.6217	0.0000	0.0000	4.8277	1.5308
-0.1250	1.0905	12.6995	5.3536	1.6976	10.1812	3.2284
0.0000	1.0000	11.8208	4.5689	1.4488	14.7501	4.6772
0.1250	0.9170	10.9848	0.3476	0.1102	15.0977	4.7874
0.2500	0.8409	10.1905	2.8296	0.8973	17.9274	5.6846
0.3750	0.7711	9.4370	5.1939	1.6470	23.1213	7.3316
0.5000	0.7071	8.7233	6.0708	1.9250	29.1921	9.2566
0.6250	0.6484	8.0484	10.1972	3.2335	39.3893	12.4900
0.7500	0.5946	7.4111	15.6503	4.9626	55.0395	17.4526
0.8750	0.5453	6.8104	15.0070	4.7586	70.0466	22.2112
1.0000	0.5000	6.2452	27.6184	8.7576	97.6650	30.9688
1.1250	0.4585	5.7143	24.4482	7.7524	122.1132	38.7212
1.2500	0.4204	5.2167	27.8975	8.8461	150.0107	47.5673
1.3750	0.3856	4.7510	22.8616	7.2492	172.8723	54.8165
1.5000	0.3536	4.3163	17.6088	5.5836	190.4810	60.4001
1.6250	0.3242	3.9113	15.8168	5.0154	206.2979	65.4155
1.7500	0.2973	3.5349	11.2882	3.5794	217.5861	68.9949
1.8750	0.2726	3.1860	8.2233	2.6075	225.8094	71.6024
2.0000	0.2500	2.8634	8.9700	2.8443	234.7794	74.4468
2.1250	0.2293	2.5660	9.8262	3.1158	244.6057	77.5626
2.2500	0.2102	2.2927	10.3143	3.2706	254.9200	80.8332
2.3750	0.1928	2.0423	11.6055	3.6800	266.5255	84.5132
2.5000	0.1768	1.8137	7.9932	2.5346	274.5187	87.0478
2.6250	0.1621	1.6058	5.5783	1.7688	280.0969	88.8166
2.7500	0.1487	1.4175	4.5810	1.4526	284.6780	90.2692
2.8750	0.1363	1.2476	3.0217	0.9581	287.6996	91.2274
3.0000	0.1250	1.0949	7.1306	2.2611	294.8303	93.4884
3.1250	0.1146	0.9582	3.0378	0.9632	297.8680	94.4517
3.2500	0.1051	0.8364	3.9107	1.2400	301.7787	95.6917
3.3750	0.0964	0.7282	3.9863	1.2640	305.7650	96.9558
3.5000	0.0884	0.6326	3.7397	1.1858	309.5047	98.1416
3.6250	0.0811	0.5484	0.7856	0.2491	310.2903	98.3907
3.7500	0.0743	0.4744	0.0000	0.0000	310.2903	98.3907
3.8750	0.0682	0.4098	5.0752	1.6093	315.3655	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	315.3655	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	315.3655	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	315.3655	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	315.3655	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	315.3655	100.0000

\* - fall velocity of natural grains in fresh water at 20cC



C27\_S9

CORE 27 S-9 500-530CM

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

672.6498 Dry Sand Fraction Weight (mg)

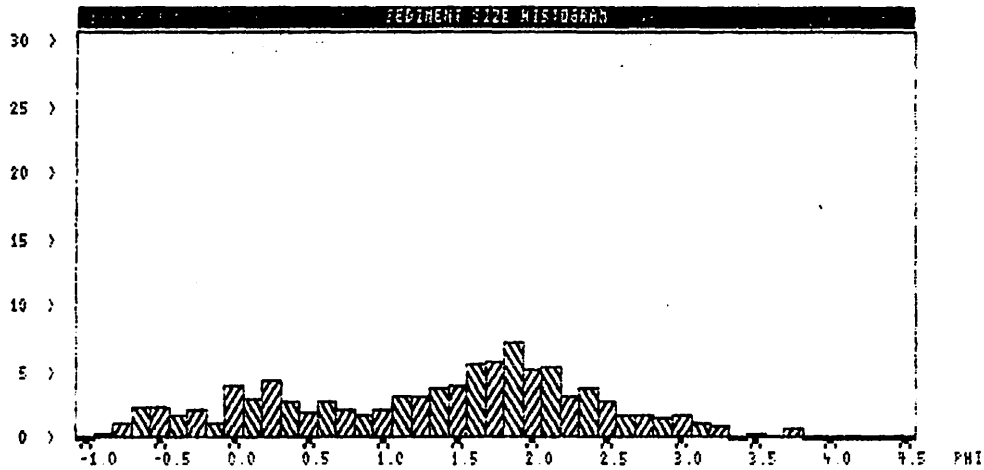
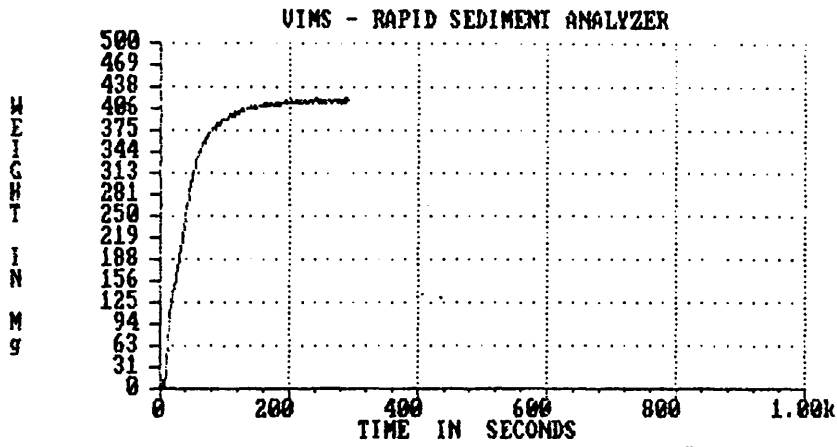
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$

1.2635 1.0402 -0.2122 2.2178 M1 M2 M3 M4 (phi)

1.2604 1.4774 1.0781 -0.2417 0.7538 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.1704	0.2806	1.1704	0.2806
-0.7500	1.6818	17.7631	5.1114	1.2257	6.2818	1.5063
-0.6250	1.5422	16.6582	9.6684	2.3184	15.9502	3.8247
-0.5000	1.4142	15.6003	9.9905	2.3956	25.9407	6.2203
-0.3750	1.2968	14.5884	7.2636	1.7417	33.2043	7.9620
-0.2500	1.1892	13.6217	9.0864	2.1788	42.2907	10.1409
-0.1250	1.0905	12.6995	4.8488	1.1627	47.1395	11.3036
0.0000	1.0000	11.8208	16.2861	3.9052	63.4257	15.2088
0.1250	0.9170	10.9848	12.4505	2.9855	75.8762	18.1943
0.2500	0.8409	10.1905	18.5252	4.4421	94.4014	22.6365
0.3750	0.7711	9.4370	11.8879	2.8506	106.2893	25.4871
0.5000	0.7071	8.7233	8.6364	2.0709	114.9257	27.5580
0.6250	0.6484	8.0484	11.6725	2.7989	126.5982	30.3569
0.7500	0.5946	7.4111	8.8587	2.1242	135.4568	32.4811
0.8750	0.5453	6.8104	7.3544	1.7635	142.8113	34.2446
1.0000	0.5000	6.2452	9.3286	2.2369	152.1399	36.4815
1.1250	0.4585	5.7143	12.9563	3.1068	165.0961	39.5883
1.2500	0.4204	5.2167	13.6546	3.2742	178.7508	42.8626
1.3750	0.3856	4.7510	15.8751	3.8067	194.6259	46.6692
1.5000	0.3536	4.3163	16.9642	4.0678	211.5901	50.7371
1.6250	0.3242	3.9113	23.7671	5.6991	235.3572	56.4362
1.7500	0.2973	3.5349	23.9779	5.7496	259.3351	62.1858
1.8750	0.2726	3.1860	30.5459	7.3246	289.8810	69.5104
2.0000	0.2500	2.8634	21.8148	5.2309	311.6958	74.7414
2.1250	0.2293	2.5660	22.4704	5.3882	334.1662	80.1295
2.2500	0.2102	2.2927	13.4628	3.2282	347.6290	83.3578
2.3750	0.1928	2.0423	16.0879	3.8577	363.7169	87.2155
2.5000	0.1768	1.8137	11.4382	2.7428	375.1550	89.9582
2.6250	0.1621	1.6058	7.5307	1.8058	382.6857	91.7640
2.7500	0.1487	1.4175	7.4172	1.7786	390.1029	93.5426
2.8750	0.1363	1.2476	6.9397	1.6641	397.0426	95.2066
3.0000	0.1250	1.0949	6.9854	1.6750	404.0281	96.8817
3.1250	0.1146	0.9582	4.8714	1.1681	408.8995	98.0498
3.2500	0.1051	0.8364	3.7737	0.9049	412.6732	98.9547
3.3750	0.0964	0.7282	0.0000	0.0000	412.6732	98.9547
3.5000	0.0884	0.6326	1.1572	0.2775	413.8304	99.2322
3.6250	0.0811	0.5484	0.3649	0.0875	414.1954	99.3197
3.7500	0.0743	0.4744	2.8371	0.6803	417.0325	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	417.0325	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	417.0325	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	417.0325	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	417.0325	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	417.0325	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	417.0325	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C28\_S1

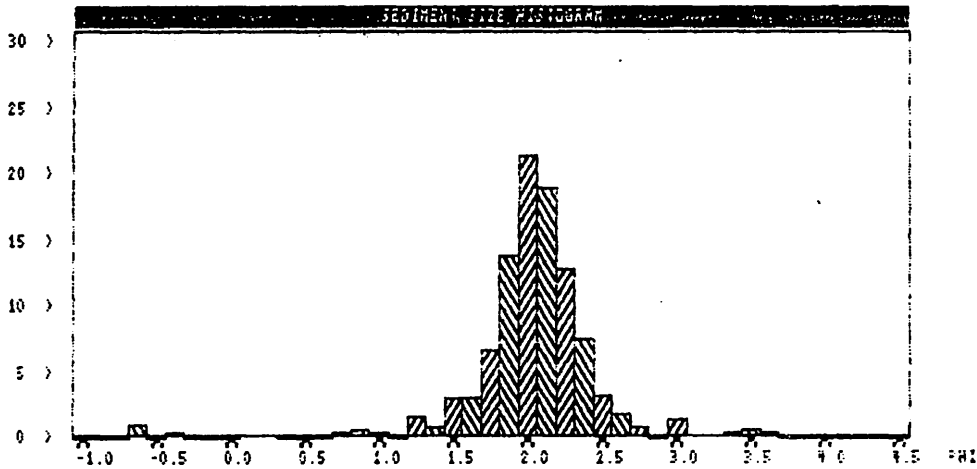
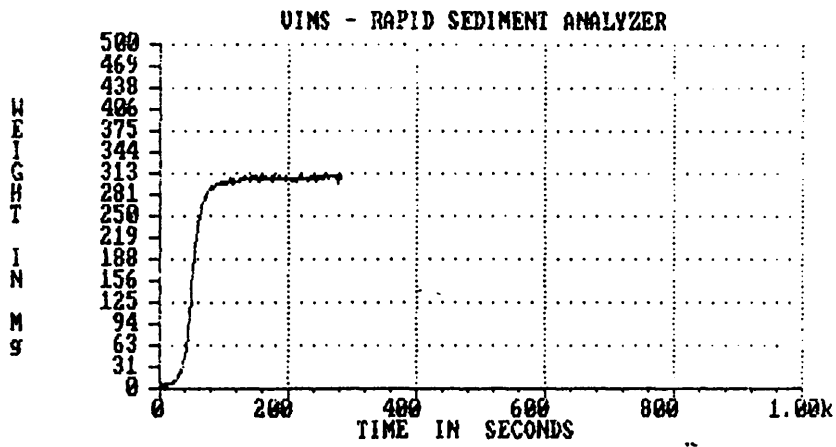
CORE 28 S-1 0-1.59M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
493.6161 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.9599 0.4712 -1.8935 14.3490 M1 M2 M3 M4 (phi)  
1.9835 1.9843 0.3124 -0.0447 0.3419 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	2.6941	0.8808	2.6941	0.8808
-0.5000	1.4142	15.6003	0.0000	0.0000	2.6941	0.8808
-0.3750	1.2968	14.5884	1.1732	0.3835	3.8673	1.2643
-0.2500	1.1892	13.6217	0.0000	0.0000	3.8673	1.2643
-0.1250	1.0905	12.6995	0.0000	0.0000	3.8673	1.2643
0.0000	1.0000	11.8208	0.0000	0.0000	3.8673	1.2643
0.1250	0.9170	10.9848	0.3975	0.1300	4.2648	1.3943
0.2500	0.8409	10.1905	0.3969	0.1298	4.6617	1.5240
0.3750	0.7711	9.4370	0.0000	0.0000	4.6617	1.5240
0.5000	0.7071	8.7233	0.0000	0.0000	4.6617	1.5240
0.6250	0.6484	8.0484	0.0000	0.0000	4.6617	1.5240
0.7500	0.5946	7.4111	1.1652	0.3809	5.8269	1.9050
0.8750	0.5453	6.8104	1.5718	0.5139	7.3987	2.4188
1.0000	0.5000	6.2452	1.3680	0.4472	8.7667	2.8661
1.1250	0.4585	5.7143	0.0000	0.0000	8.7667	2.8661
1.2500	0.4204	5.2167	4.6030	1.5048	13.3697	4.3709
1.3750	0.3856	4.7510	2.5707	0.8404	15.9403	5.2113
1.5000	0.3536	4.3163	9.0046	2.9438	24.9449	8.1552
1.6250	0.3242	3.9113	9.0024	2.9431	33.9473	11.0983
1.7500	0.2973	3.5349	20.5276	6.7110	54.4749	17.8093
1.8750	0.2726	3.1860	41.6359	13.6119	96.1107	31.4212
2.0000	0.2500	2.8634	64.9658	21.2391	161.0766	52.6603
2.1250	0.2293	2.5660	57.2687	18.7227	218.3453	71.3830
2.2500	0.2102	2.2927	38.6280	12.6286	256.9733	84.0115
2.3750	0.1928	2.0423	22.9091	7.4896	279.8824	91.5011
2.5000	0.1768	1.8137	9.6195	3.1449	289.5019	94.6460
2.6250	0.1621	1.6058	5.3879	1.7614	294.8897	96.4074
2.7500	0.1487	1.4175	2.3164	0.7573	297.2061	97.1647
2.8750	0.1363	1.2476	0.0000	0.0000	297.2061	97.1647
3.0000	0.1250	1.0949	4.0182	1.3137	301.2243	98.4784
3.1250	0.1146	0.9582	0.5927	0.1938	301.8171	98.6721
3.2500	0.1051	0.8364	0.3986	0.1303	302.2157	98.8025
3.3750	0.0964	0.7282	0.8095	0.2646	303.0252	99.0671
3.5000	0.0884	0.6326	1.9406	0.6344	304.9658	99.7015
3.6250	0.0811	0.5484	0.9129	0.2985	305.8787	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	305.8787	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	305.8787	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	305.8787	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	305.8787	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	305.8787	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	305.8787	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	305.8787	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C28\_S2

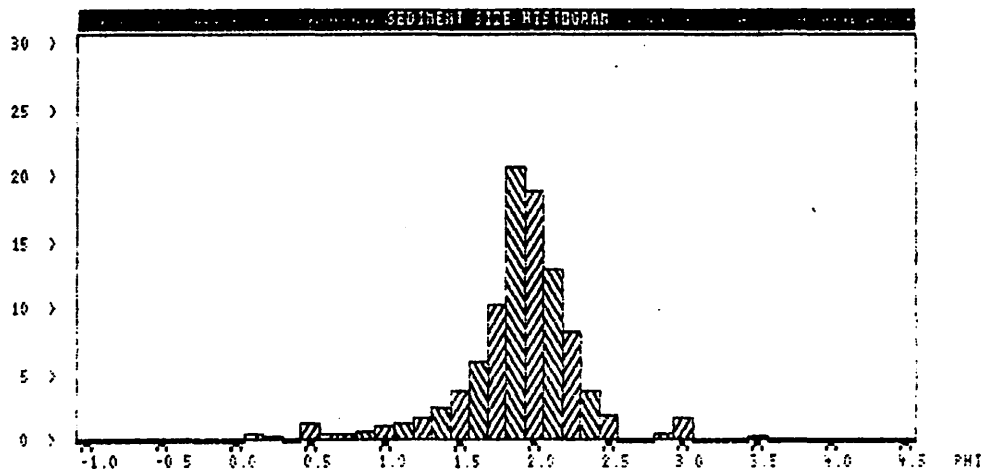
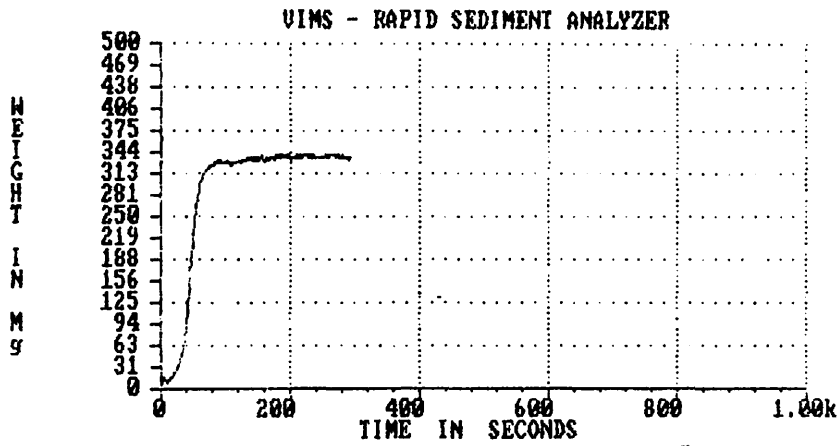
CORE 28 S-2 1.59-2.12M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
538.6683 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.8235 0.4390 -0.8379 6.4887 M1 M2 M3 M4 (phi)  
1.8438 1.8659 0.3623 -0.1904 0.4186 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	0.0000	0.0000	0.0000	0.0000
0.0000	1.0000	11.8208	0.0000	0.0000	0.0000	0.0000
0.1250	0.9170	10.9848	1.7956	0.5503	1.7956	0.5503
0.2500	0.8409	10.1905	1.0768	0.3300	2.8724	0.8804
0.3750	0.7711	9.4370	0.0000	0.0000	2.8724	0.8804
0.5000	0.7071	8.7233	4.3842	1.3437	7.2566	2.2241
0.6250	0.6484	8.0484	2.0316	0.6227	9.2882	2.8468
0.7500	0.5946	7.4111	1.8084	0.5543	11.0966	3.4011
0.8750	0.5453	6.8104	2.1687	0.6647	13.2653	4.0657
1.0000	0.5000	6.2452	3.5165	1.0778	16.7819	5.1435
1.1250	0.4585	5.7143	4.2942	1.3161	21.0760	6.4597
1.2500	0.4204	5.2167	5.7201	1.7532	26.7962	8.2129
1.3750	0.3856	4.7510	8.3605	2.5625	35.1567	10.7753
1.5000	0.3536	4.3163	12.5377	3.8427	47.6944	14.6181
1.6250	0.3242	3.9113	19.7612	6.0567	67.4556	20.6748
1.7500	0.2973	3.5349	33.5911	10.2955	101.0467	30.9703
1.8750	0.2726	3.1860	66.9895	20.5319	168.0362	51.5022
2.0000	0.2500	2.8634	61.1057	18.7286	229.1419	70.2308
2.1250	0.2293	2.5660	42.3424	12.9777	271.4843	83.2085
2.2500	0.2102	2.2927	26.7148	8.1879	298.1991	91.3964
2.3750	0.1928	2.0423	12.1744	3.7314	310.3734	95.1278
2.5000	0.1768	1.8137	6.7633	2.0729	317.1368	97.2007
2.6250	0.1621	1.6058	0.1529	0.0469	317.2897	97.2476
2.7500	0.1487	1.4175	0.0000	0.0000	317.2897	97.2476
2.8750	0.1363	1.2476	1.9180	0.5879	319.2077	97.8354
3.0000	0.1250	1.0949	5.8231	1.7848	325.0309	99.6202
3.1250	0.1146	0.9582	0.0000	0.0000	325.0309	99.6202
3.2500	0.1051	0.8364	0.0000	0.0000	325.0309	99.6202
3.3750	0.0964	0.7282	0.0000	0.0000	325.0309	99.6202
3.5000	0.0884	0.6326	1.2392	0.3798	326.2700	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	326.2700	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	326.2700	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	326.2700	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	326.2700	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	326.2700	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	326.2700	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	326.2700	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	326.2700	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C28\_S3

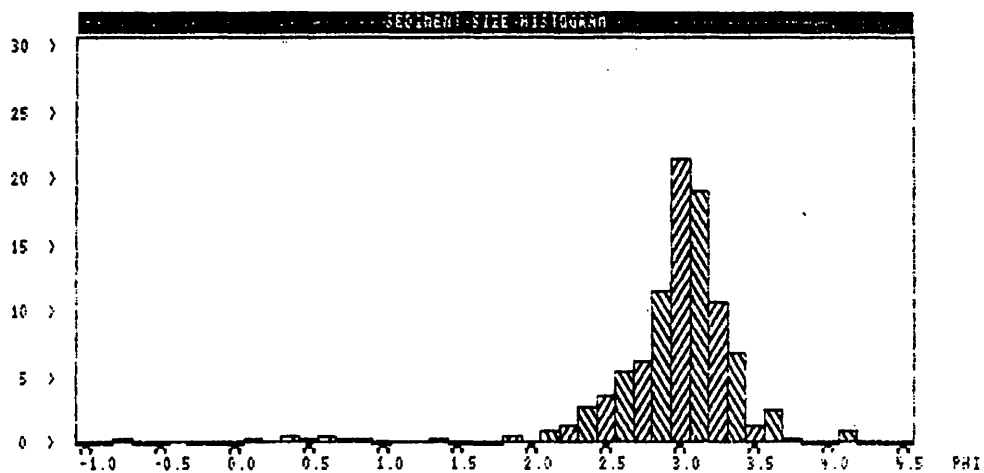
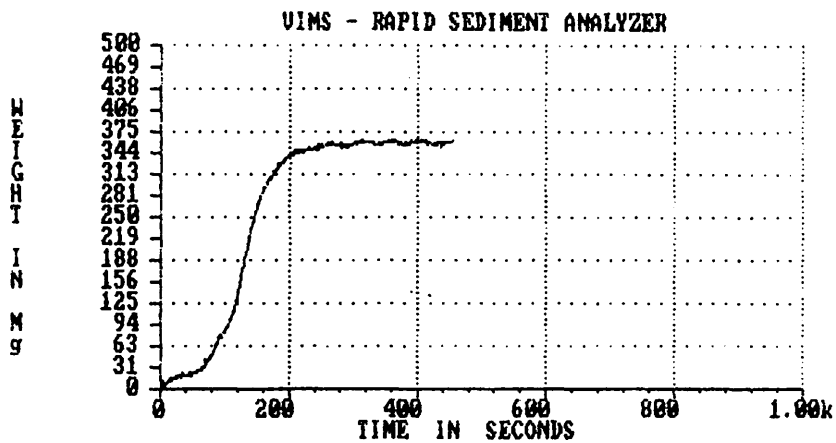
CORE 28 S-3 2.12-3.10M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
580.1947 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.8380 0.6004 -2.9122 14.6656 M1 M2 M3 M4 (phi)  
2.9061 2.9527 0.3725 -0.2756 0.2870 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.4756	0.4135	1.4756	0.4135
-0.6250	1.5422	16.6582	0.0000	0.0000	1.4756	0.4135
-0.5000	1.4142	15.6003	0.0000	0.0000	1.4756	0.4135
-0.3750	1.2968	14.5884	0.3382	0.0948	1.8137	0.5083
-0.2500	1.1892	13.6217	0.0000	0.0000	1.8137	0.5083
-0.1250	1.0905	12.6995	0.0000	0.0000	1.8137	0.5083
0.0000	1.0000	11.8208	0.0000	0.0000	1.8137	0.5083
0.1250	0.9170	10.9848	1.2361	0.3464	3.0498	0.8548
0.2500	0.8409	10.1905	0.7220	0.2023	3.7718	1.0571
0.3750	0.7711	9.4370	2.1237	0.5952	5.8955	1.6523
0.5000	0.7071	8.7233	1.3055	0.3659	7.2010	2.0181
0.6250	0.6484	8.0484	1.7510	0.4907	8.9520	2.5089
0.7500	0.5946	7.4111	1.3599	0.3811	10.3118	2.8900
0.8750	0.5453	6.8104	1.2779	0.3582	11.5898	3.2482
1.0000	0.5000	6.2452	0.1807	0.0506	11.7705	3.2988
1.1250	0.4585	5.7143	0.9270	0.2598	12.6975	3.5586
1.2500	0.4204	5.2167	0.5934	0.1663	13.2909	3.7249
1.3750	0.3856	4.7510	1.0061	0.2820	14.2971	4.0069
1.5000	0.3536	4.3163	0.1825	0.0512	14.4796	4.0581
1.6250	0.3242	3.9113	0.0853	0.0239	14.5649	4.0820
1.7500	0.2973	3.5349	0.0000	0.0000	14.5649	4.0820
1.8750	0.2726	3.1860	1.9336	0.5419	16.4985	4.6239
2.0000	0.2500	2.8634	0.6339	0.1776	17.1324	4.8015
2.1250	0.2293	2.5660	3.6249	1.0159	20.7573	5.8174
2.2500	0.2102	2.2927	4.7878	1.3418	25.5450	7.1593
2.3750	0.1928	2.0423	9.5884	2.6873	35.1335	9.8465
2.5000	0.1768	1.8137	12.7259	3.5666	47.8593	13.4131
2.6250	0.1621	1.6058	19.4928	5.4631	67.3521	18.8761
2.7500	0.1487	1.4175	22.4963	6.3048	89.8484	25.1809
2.8750	0.1363	1.2476	41.0218	11.4968	130.8702	36.6777
3.0000	0.1250	1.0949	76.4661	21.4304	207.3364	58.1081
3.1250	0.1146	0.9582	67.8078	19.0038	275.1442	77.1120
3.2500	0.1051	0.8364	37.7493	10.5796	312.8935	87.6916
3.3750	0.0964	0.7282	24.4654	6.8567	337.3589	94.5483
3.5000	0.0884	0.6326	5.0423	1.4132	342.4012	95.9614
3.6250	0.0811	0.5484	9.1663	2.5690	351.5675	98.5304
3.7500	0.0743	0.4744	1.5657	0.4388	353.1332	98.9692
3.8750	0.0682	0.4098	0.0000	0.0000	353.1332	98.9692
4.0000	0.0625	0.3533	0.0000	0.0000	353.1332	98.9692
4.1250	0.0573	0.3043	3.6780	1.0308	356.8113	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	356.8113	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	356.8113	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	356.8113	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C28\_S4

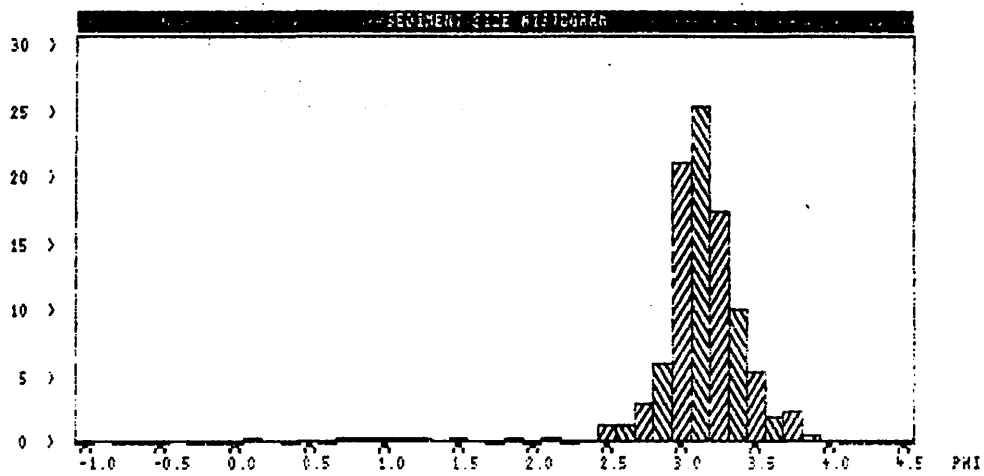
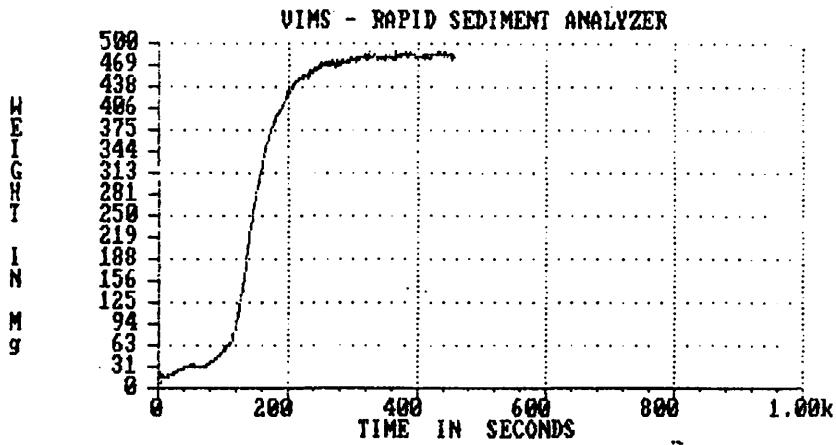
CORE 28 S-4 3.10-4.05M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
775.2906 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
3.0042 0.5054 -3.8168 22.9392 M1 M2 M3 M4 (phi)  
3.0808 3.0640 0.2652 -0.0261 0.2118 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.1116	0.2363	1.1116	0.2363
-0.7500	1.6818	17.7631	0.0000	0.0000	1.1116	0.2363
-0.6250	1.5422	16.6582	0.0000	0.0000	1.1116	0.2363
-0.5000	1.4142	15.6003	0.0000	0.0000	1.1116	0.2363
-0.3750	1.2968	14.5884	0.6297	0.1339	1.7414	0.3702
-0.2500	1.1892	13.6217	0.0000	0.0000	1.7414	0.3702
-0.1250	1.0905	12.6995	0.0478	0.0102	1.7892	0.3804
0.0000	1.0000	11.8208	0.0000	0.0000	1.7892	0.3804
0.1250	0.9170	10.9848	1.3300	0.2828	3.1191	0.6631
0.2500	0.8409	10.1905	0.4805	0.1022	3.5997	0.7653
0.3750	0.7711	9.4370	0.0000	0.0000	3.5997	0.7653
0.5000	0.7071	8.7233	0.6310	0.1341	4.2306	0.8994
0.6250	0.6484	8.0484	0.1012	0.0215	4.3318	0.9210
0.7500	0.5946	7.4111	1.3534	0.2877	5.6852	1.2087
0.8750	0.5453	6.8104	1.7579	0.3737	7.4431	1.5824
1.0000	0.5000	6.2452	1.2987	0.2761	8.7418	1.8585
1.1250	0.4585	5.7143	1.9437	0.4132	10.6855	2.2718
1.2500	0.4204	5.2167	1.8147	0.3858	12.5002	2.6576
1.3750	0.3856	4.7510	0.7186	0.1528	13.2188	2.8103
1.5000	0.3536	4.3163	1.5128	0.3216	14.7316	3.1320
1.6250	0.3242	3.9113	0.8636	0.1836	15.5951	3.3156
1.7500	0.2973	3.5349	0.0000	0.0000	15.5951	3.3156
1.8750	0.2726	3.1860	1.6814	0.3575	17.2766	3.6730
2.0000	0.2500	2.8634	0.0000	0.0000	17.2766	3.6730
2.1250	0.2293	2.5660	1.3629	0.2898	18.6395	3.9628
2.2500	0.2102	2.2927	0.0000	0.0000	18.6395	3.9628
2.3750	0.1928	2.0423	0.5427	0.1154	19.1822	4.0782
2.5000	0.1768	1.8137	6.8129	1.4484	25.9951	5.5266
2.6250	0.1621	1.6058	6.7936	1.4443	32.7887	6.9709
2.7500	0.1487	1.4175	14.1297	3.0040	46.9184	9.9750
2.8750	0.1363	1.2476	28.4394	6.0463	75.3578	16.0213
3.0000	0.1250	1.0949	99.0641	21.0613	174.4219	37.0825
3.1250	0.1146	0.9582	118.6586	25.2271	293.0805	62.3096
3.2500	0.1051	0.8364	81.6652	17.3622	374.7457	79.6718
3.3750	0.0964	0.7282	47.1894	10.0326	421.9351	89.7044
3.5000	0.0884	0.6326	25.6276	5.4485	447.5627	95.1529
3.6250	0.0811	0.5484	8.9280	1.8981	456.4907	97.0510
3.7500	0.0743	0.4744	10.7587	2.2873	467.2495	99.3383
3.8750	0.0682	0.4098	2.4957	0.5306	469.7451	99.8689
4.0000	0.0625	0.3533	0.6165	0.1311	470.3616	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	470.3616	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	470.3616	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	470.3616	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	470.3616	100.0000

\* - fall velocity of natural grains in fresh water at 20cC



C28\_S5

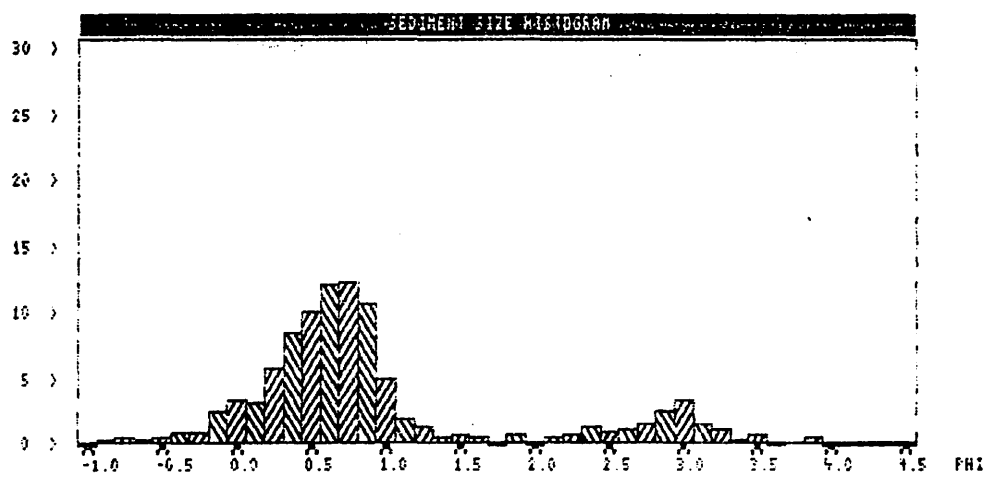
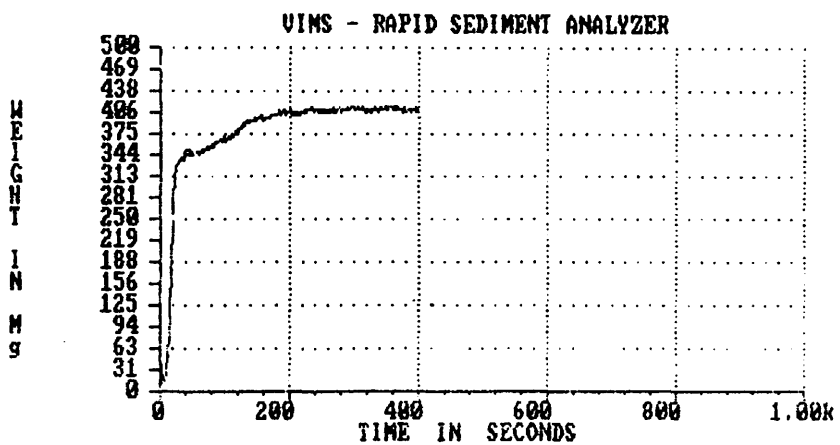
CORE 28 S-5 4.05-4.20M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
659.3300 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.8926 0.9638 1.2538 3.7716 M1 M2 M3 M4 (phi)  
0.9987 0.6298 0.9781 0.5195 1.6221 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.3300	0.3379	1.3300	0.3379
-0.7500	1.6818	17.7631	2.0673	0.5253	3.3972	0.8632
-0.6250	1.5422	16.6582	1.3541	0.3440	4.7513	1.2072
-0.5000	1.4142	15.6003	2.3981	0.6093	7.1494	1.8165
-0.3750	1.2968	14.5884	4.1377	1.0513	11.2870	2.8678
-0.2500	1.1892	13.6217	3.7741	0.9589	15.0611	3.8268
-0.1250	1.0905	12.6995	10.1681	2.5835	25.2292	6.4103
0.0000	1.0000	11.8208	13.0788	3.3231	38.3080	9.7334
0.1250	0.9170	10.9848	12.7200	3.2319	51.0279	12.9654
0.2500	0.8409	10.1905	23.0766	5.8634	74.1045	18.8287
0.3750	0.7711	9.4370	33.3036	8.4619	107.4081	27.2906
0.5000	0.7071	8.7233	39.9817	10.1587	147.3898	37.4493
0.6250	0.6484	8.0484	47.5735	12.0876	194.9633	49.5369
0.7500	0.5946	7.4111	47.9429	12.1815	242.9062	61.7184
0.8750	0.5453	6.8104	41.6886	10.5924	284.5947	72.3108
1.0000	0.5000	6.2452	19.5995	4.9799	304.1942	77.2907
1.1250	0.4585	5.7143	8.1797	2.0783	312.3739	79.3690
1.2500	0.4204	5.2167	5.0072	1.2722	317.3810	80.6413
1.3750	0.3856	4.7510	2.1691	0.5511	319.5501	81.1924
1.5000	0.3536	4.3163	2.7656	0.7027	322.3158	81.8951
1.6250	0.3242	3.9113	1.8373	0.4668	324.1530	82.3619
1.7500	0.2973	3.5349	0.0000	0.0000	324.1530	82.3619
1.8750	0.2726	3.1860	2.8586	0.7263	327.0116	83.0882
2.0000	0.2500	2.8634	0.0000	0.0000	327.0116	83.0882
2.1250	0.2293	2.5660	2.3426	0.5952	329.3541	83.6834
2.2500	0.2102	2.2927	3.0077	0.7642	332.3618	84.4476
2.3750	0.1928	2.0423	5.4048	1.3733	337.7666	85.8209
2.5000	0.1768	1.8137	4.0537	1.0300	341.8203	86.8509
2.6250	0.1621	1.6058	4.4949	1.1421	346.3152	87.9930
2.7500	0.1487	1.4175	6.0824	1.5454	352.3976	89.5384
2.8750	0.1363	1.2476	10.1055	2.5676	362.5030	92.1060
3.0000	0.1250	1.0949	13.1017	3.3289	375.6048	95.4350
3.1250	0.1146	0.9582	6.2417	1.5859	381.8464	97.0209
3.2500	0.1051	0.8364	4.4590	1.1330	386.3054	98.1538
3.3750	0.0964	0.7282	1.3162	0.3344	387.6216	98.4882
3.5000	0.0884	0.6326	3.1304	0.7954	390.7520	99.2836
3.6250	0.0811	0.5484	0.0000	0.0000	390.7520	99.2836
3.7500	0.0743	0.4744	0.2582	0.0656	391.0102	99.3492
3.8750	0.0682	0.4098	2.5613	0.6508	393.5715	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	393.5715	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	393.5715	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	393.5715	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	393.5715	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	393.5715	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





028\_S8

CORE 28 S-8 4.87-5.13M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

633.0822 Dry Sand Fraction Weight (mg)

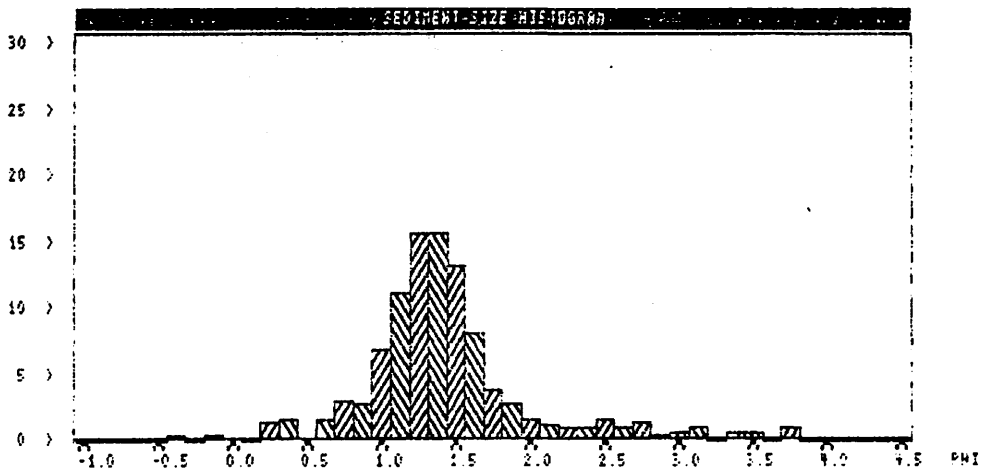
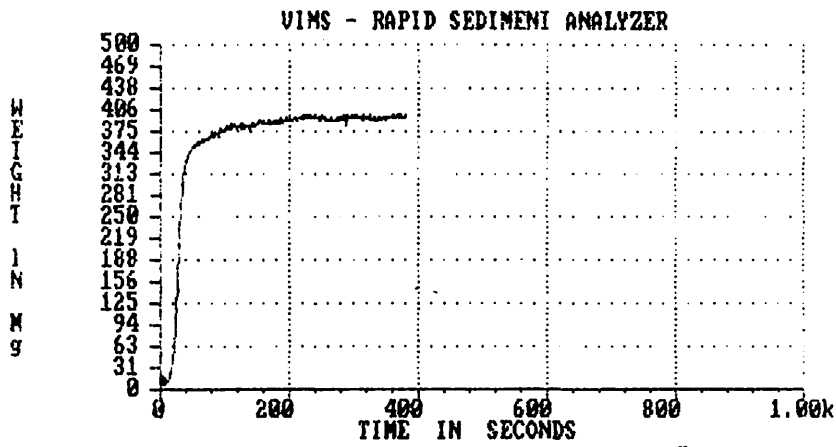
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$

1.3684 0.5949 1.1911 6.2345 M1 M2 M3 M4 (phi)

1.3192 1.2911 0.5010 0.2085 0.7831 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.2488	0.3249	1.2488	0.3249
-0.2500	1.1892	13.6217	0.0606	0.0158	1.3093	0.3406
-0.1250	1.0905	12.6995	1.2072	0.3141	2.5165	0.6547
0.0000	1.0000	11.8208	0.5139	0.1337	3.0304	0.7884
0.1250	0.9170	10.9848	0.0000	0.0000	3.0304	0.7884
0.2500	0.8409	10.1905	5.6331	1.4656	8.6635	2.2540
0.3750	0.7711	9.4370	6.3625	1.6553	15.0260	3.9093
0.5000	0.7071	8.7233	0.5066	0.1318	15.5326	4.0411
0.6250	0.6484	8.0484	6.3338	1.6478	21.8664	5.6890
0.7500	0.5946	7.4111	11.6080	3.0200	33.4744	8.7090
0.8750	0.5453	6.8104	10.6143	2.7615	44.0887	11.4705
1.0000	0.5000	6.2452	26.3576	6.8574	70.4463	18.3279
1.1250	0.4585	5.7143	42.2116	10.9822	112.6579	29.3101
1.2500	0.4204	5.2167	59.9362	15.5935	172.5941	44.9036
1.3750	0.3856	4.7510	59.6062	15.5077	232.2003	60.4113
1.5000	0.3536	4.3163	50.5313	13.1467	282.7316	73.5580
1.6250	0.3242	3.9113	30.5115	7.9381	313.2431	81.4961
1.7500	0.2973	3.5349	14.3500	3.7334	327.5931	85.2295
1.8750	0.2726	3.1860	10.4180	2.7105	338.0111	87.9400
2.0000	0.2500	2.8634	5.6857	1.4793	343.6968	89.4192
2.1250	0.2293	2.5660	4.1245	1.0731	347.8213	90.4923
2.2500	0.2102	2.2927	3.6015	0.9370	351.4228	91.4293
2.3750	0.1928	2.0423	3.4829	0.9061	354.9057	92.3354
2.5000	0.1768	1.8137	5.6745	1.4763	360.5802	93.8118
2.6250	0.1621	1.6058	3.9714	1.0332	364.5516	94.8450
2.7500	0.1487	1.4175	5.0981	1.3264	369.6497	96.1714
2.8750	0.1363	1.2476	1.0979	0.2856	370.7477	96.4570
3.0000	0.1250	1.0949	2.4729	0.6434	373.2205	97.1004
3.1250	0.1146	0.9582	3.7961	0.9876	377.0166	98.0880
3.2500	0.1051	0.8364	0.0000	0.0000	377.0166	98.0880
3.3750	0.0964	0.7282	2.1763	0.5662	379.1929	98.6542
3.5000	0.0884	0.6326	1.7851	0.4644	380.9781	99.1186
3.6250	0.0811	0.5484	0.0000	0.0000	380.9781	99.1186
3.7500	0.0743	0.4744	3.3876	0.8814	384.3657	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	384.3657	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	384.3657	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	384.3657	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	384.3657	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	384.3657	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	384.3657	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C29\_S1

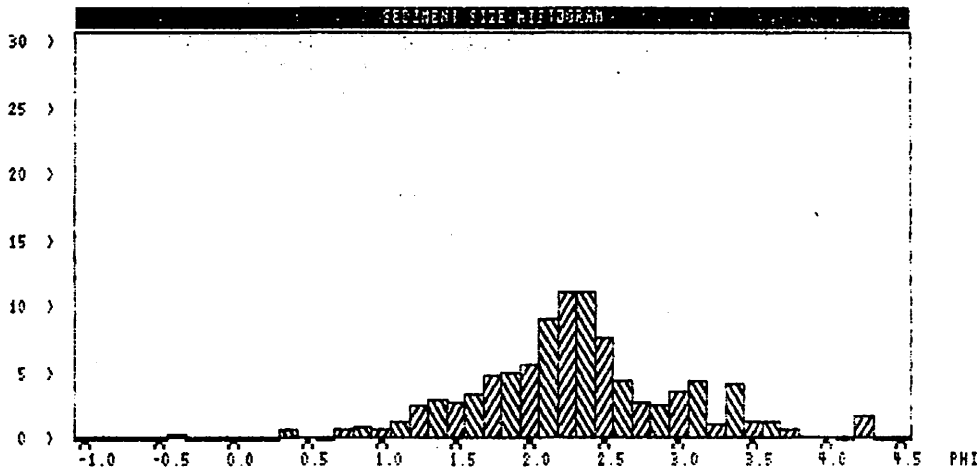
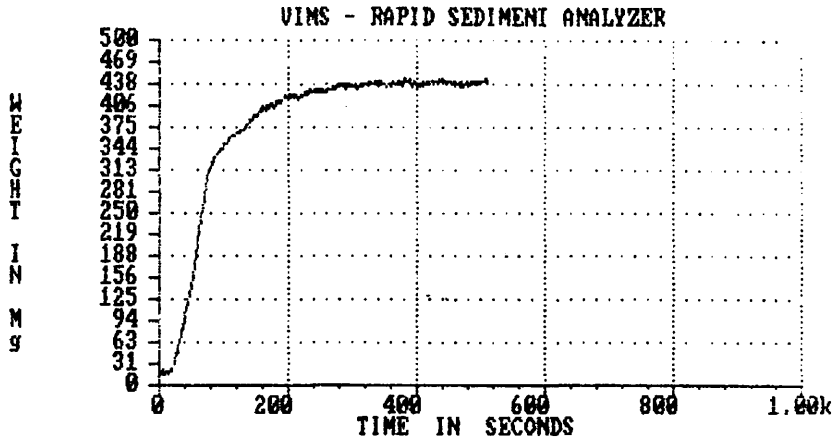
CORE 29 S-1 0-1.93M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
715.3515 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.2395 0.7214 0.0031 3.8076 M1 M2 M3 M4 (phi)  
2.2626 2.2209 0.7025 0.0624 0.5168 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.6271	0.3767	1.6271	0.3767
-0.2500	1.1892	13.6217	0.0000	0.0000	1.6271	0.3767
-0.1250	1.0905	12.6995	0.0000	0.0000	1.6271	0.3767
0.0000	1.0000	11.8208	0.0000	0.0000	1.6271	0.3767
0.1250	0.9170	10.9848	0.0000	0.0000	1.6271	0.3767
0.2500	0.8409	10.1905	0.0000	0.0000	1.6271	0.3767
0.3750	0.7711	9.4370	3.6526	0.8457	5.2797	1.2224
0.5000	0.7071	8.7233	0.8784	0.2034	6.1581	1.4258
0.6250	0.6484	8.0484	0.0000	0.0000	6.1581	1.4258
0.7500	0.5946	7.4111	3.3980	0.7867	9.5561	2.2125
0.8750	0.5453	6.8104	4.0038	0.9270	13.5598	3.1394
1.0000	0.5000	6.2452	3.5003	0.8104	17.0601	3.9498
1.1250	0.4585	5.7143	6.2786	1.4536	23.3387	5.4035
1.2500	0.4204	5.2167	10.7467	2.4881	34.0854	7.8916
1.3750	0.3856	4.7510	12.6103	2.9196	46.6957	10.8112
1.5000	0.3536	4.3163	11.8187	2.7363	58.5144	13.5475
1.6250	0.3242	3.9113	14.9789	3.4680	73.4933	17.0155
1.7500	0.2973	3.5349	20.5473	4.7572	94.0406	21.7728
1.8750	0.2726	3.1860	21.6704	5.0172	115.7111	26.7900
2.0000	0.2500	2.8634	24.4044	5.6502	140.1155	32.4402
2.1250	0.2293	2.5660	39.2347	9.0838	179.3502	41.5240
2.2500	0.2102	2.2927	47.6985	11.0434	227.0487	52.5675
2.3750	0.1928	2.0423	47.5391	11.0065	274.5878	63.5739
2.5000	0.1768	1.8137	32.6629	7.5623	307.2508	71.1362
2.6250	0.1621	1.6058	19.2083	4.4472	326.4590	75.5834
2.7500	0.1487	1.4175	12.3622	2.8622	338.8212	78.4456
2.8750	0.1363	1.2476	11.1649	2.5850	349.9861	81.0305
3.0000	0.1250	1.0949	15.5175	3.5927	365.5037	84.6232
3.1250	0.1146	0.9582	18.7422	4.3393	384.2459	88.9625
3.2500	0.1051	0.8364	5.2970	1.2264	389.5429	90.1889
3.3750	0.0964	0.7282	18.0636	4.1822	407.6064	94.3711
3.5000	0.0884	0.6326	5.7806	1.3384	413.3871	95.7094
3.6250	0.0811	0.5484	5.8465	1.3536	419.2335	97.0630
3.7500	0.0743	0.4744	3.6602	0.8474	422.8937	97.9105
3.8750	0.0682	0.4098	0.3797	0.0879	423.2734	97.9984
4.0000	0.0625	0.3533	0.7993	0.1851	424.0728	98.1834
4.1250	0.0573	0.3043	0.0000	0.0000	424.0728	98.1834
4.2500	0.0526	0.2617	7.8461	1.8166	431.9188	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	431.9188	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	431.9188	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C29\_S2

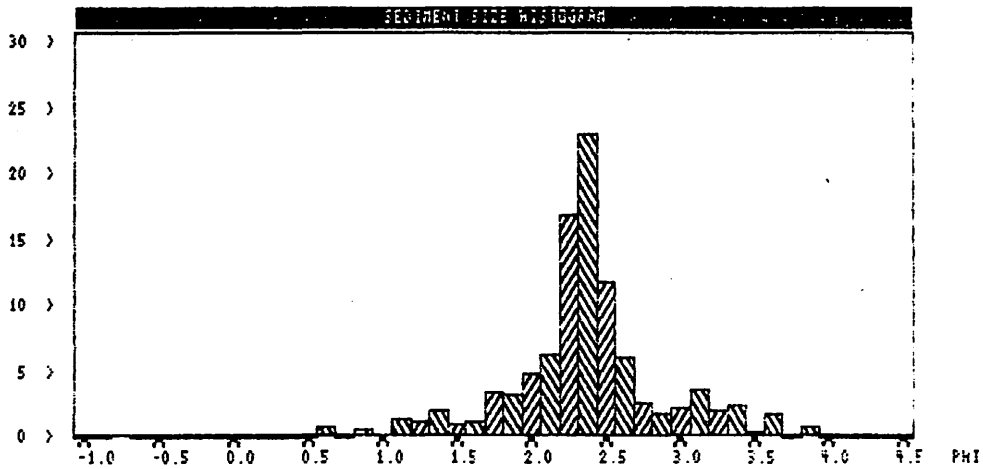
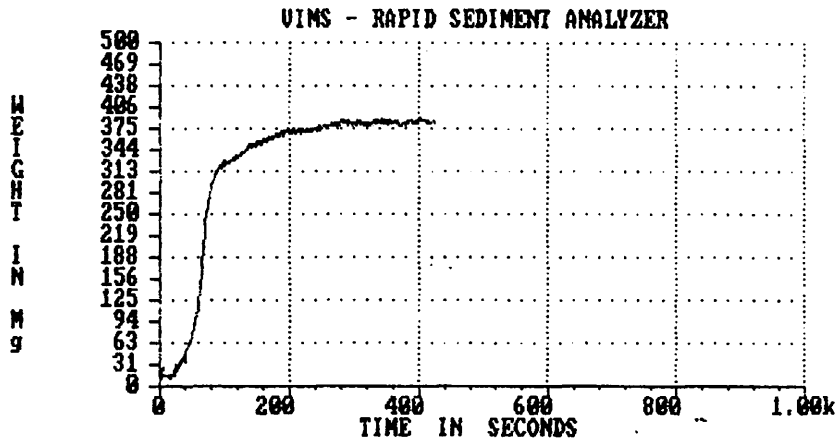
CORE 29 S-2 1.93-2.33M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
614.6695 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.2909 0.5418 -0.4978 6.4254 M1 M2 M3 M4 (phi)  
2.2950 2.2914 0.4914 0.0049 0.4961 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.9111	0.2449	0.9111	0.2449
-0.6250	1.5422	16.6582	0.0000	0.0000	0.9111	0.2449
-0.5000	1.4142	15.6003	0.0000	0.0000	0.9111	0.2449
-0.3750	1.2968	14.5884	0.0000	0.0000	0.9111	0.2449
-0.2500	1.1892	13.6217	0.0000	0.0000	0.9111	0.2449
-0.1250	1.0905	12.6995	0.0000	0.0000	0.9111	0.2449
0.0000	1.0000	11.8208	0.0000	0.0000	0.9111	0.2449
0.1250	0.9170	10.9848	0.0000	0.0000	0.9111	0.2449
0.2500	0.8409	10.1905	0.0000	0.0000	0.9111	0.2449
0.3750	0.7711	9.4370	0.0000	0.0000	0.9111	0.2449
0.5000	0.7071	8.7233	0.0000	0.0000	0.9111	0.2449
0.6250	0.6484	8.0484	2.8647	0.7701	3.7758	1.0150
0.7500	0.5946	7.4111	0.0000	0.0000	3.7758	1.0150
0.8750	0.5453	6.8104	1.7258	0.4639	5.5016	1.4789
1.0000	0.5000	6.2452	0.5982	0.1608	6.0998	1.6398
1.1250	0.4585	5.7143	5.0886	1.3679	11.1883	3.0077
1.2500	0.4204	5.2167	3.9862	1.0716	15.1745	4.0792
1.3750	0.3856	4.7510	7.1892	1.9326	22.3637	6.0119
1.5000	0.3536	4.3163	3.6453	0.9799	26.0090	6.9918
1.6250	0.3242	3.9113	4.6937	1.2618	30.7027	8.2536
1.7500	0.2973	3.5349	12.6573	3.4026	43.3600	11.6561
1.8750	0.2726	3.1860	11.6627	3.1352	55.0227	14.7913
2.0000	0.2500	2.8634	17.7256	4.7650	72.7484	19.5564
2.1250	0.2293	2.5660	22.9850	6.1789	95.7334	25.7353
2.2500	0.2102	2.2927	62.2195	16.7260	157.9529	42.4612
2.3750	0.1928	2.0423	84.5833	22.7379	242.5363	65.1991
2.5000	0.1768	1.8137	43.0879	11.5830	285.6242	76.7821
2.6250	0.1621	1.6058	22.2361	5.9776	307.8603	82.7597
2.7500	0.1487	1.4175	9.3259	2.5070	317.1862	85.2667
2.8750	0.1363	1.2476	6.6247	1.7809	323.8109	87.0475
3.0000	0.1250	1.0949	7.8892	2.1208	331.7001	89.1683
3.1250	0.1146	0.9582	13.5548	3.6438	345.2549	92.8122
3.2500	0.1051	0.8364	7.0086	1.8841	352.2636	94.6963
3.3750	0.0964	0.7282	8.9687	2.4110	361.2323	97.1072
3.5000	0.0884	0.6326	1.6475	0.4429	362.8797	97.5501
3.6250	0.0811	0.5484	6.3078	1.6957	369.1876	99.2458
3.7500	0.0743	0.4744	0.0000	0.0000	369.1876	99.2458
3.8750	0.0682	0.4098	2.8055	0.7542	371.9931	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	371.9931	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	371.9931	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	371.9931	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	371.9931	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	371.9931	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C31R1\_S1

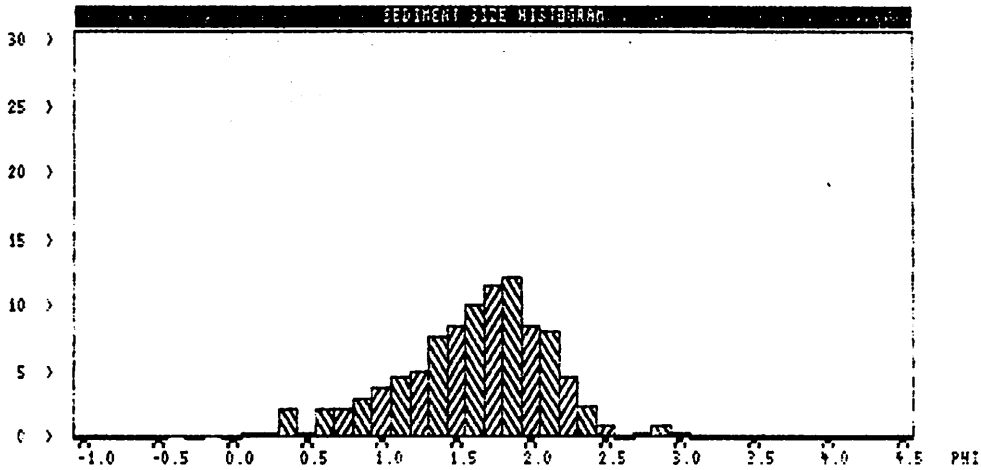
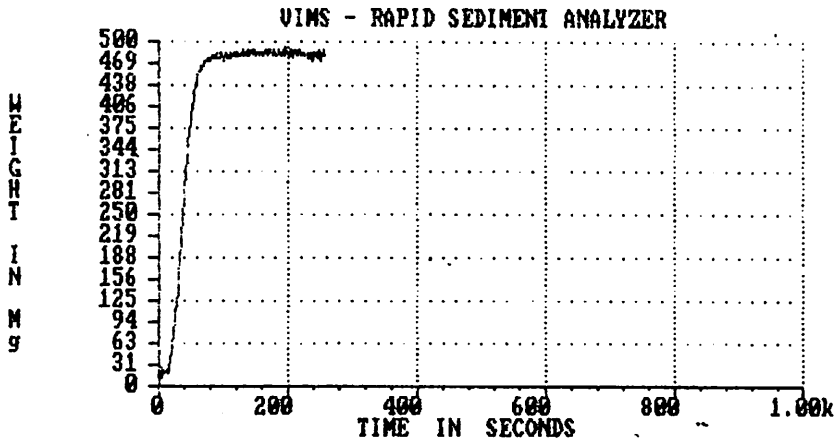
CORE 31 R-1 S-1 0-1.40M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
771.3730 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
1.5481 0.5145 -0.5026 3.6158 M1 M2 M3 M4 (phi)  
1.5598 1.6186 0.4975 -0.2121 0.4957 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0456	0.0098	0.0456	0.0098
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0456	0.0098
-0.3750	1.2968	14.5884	0.3176	0.0683	0.3632	0.0781
-0.2500	1.1892	13.6217	0.2138	0.0460	0.5770	0.1241
-0.1250	1.0905	12.6995	1.1791	0.2537	1.7561	0.3778
0.0000	1.0000	11.8208	0.0000	0.0000	1.7561	0.3778
0.1250	0.9170	10.9848	1.7483	0.3761	3.5044	0.7539
0.2500	0.8409	10.1905	1.5202	0.3270	5.0246	1.0809
0.3750	0.7711	9.4370	10.0403	2.1599	15.0648	3.2408
0.5000	0.7071	8.7233	1.2211	0.2627	16.2860	3.5035
0.6250	0.6484	8.0484	10.1077	2.1744	26.3937	5.6778
0.7500	0.5946	7.4111	10.0880	2.1701	36.4817	7.8480
0.8750	0.5453	6.8104	14.2311	3.0614	50.7128	10.9094
1.0000	0.5000	6.2452	17.1969	3.6994	67.9097	14.6088
1.1250	0.4585	5.7143	21.2292	4.5669	89.1389	19.1757
1.2500	0.4204	5.2167	23.6374	5.0849	112.7763	24.2606
1.3750	0.3856	4.7510	35.9029	7.7235	148.6791	31.9841
1.5000	0.3536	4.3163	39.2783	8.4496	187.9574	40.4337
1.6250	0.3242	3.9113	46.8659	10.0819	234.8233	50.5155
1.7500	0.2973	3.5349	52.9979	11.4010	287.8211	61.9165
1.8750	0.2726	3.1860	56.5232	12.1594	344.3444	74.0759
2.0000	0.2500	2.8634	39.4004	8.4759	383.7447	82.5517
2.1250	0.2293	2.5660	36.9881	7.9569	420.7328	90.5087
2.2500	0.2102	2.2927	21.7970	4.6890	442.5298	95.1977
2.3750	0.1928	2.0423	10.6573	2.2926	453.1871	97.4903
2.5000	0.1768	1.8137	4.0978	0.8815	457.2850	98.3718
2.6250	0.1621	1.6058	0.0000	0.0000	457.2850	98.3718
2.7500	0.1487	1.4175	1.3715	0.2950	458.6565	98.6669
2.8750	0.1363	1.2476	4.4554	0.9584	463.1118	99.6253
3.0000	0.1250	1.0949	1.4861	0.3197	464.5980	99.9450
3.1250	0.1146	0.9582	0.0000	0.0000	464.5980	99.9450
3.2500	0.1051	0.8364	0.0000	0.0000	464.5980	99.9450
3.3750	0.0964	0.7282	0.0000	0.0000	464.5980	99.9450
3.5000	0.0884	0.6326	0.2557	0.0550	464.8536	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	464.8536	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	464.8536	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	464.8536	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	464.8536	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	464.8536	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	464.8536	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	464.8536	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	464.8536	100.0000

\* - fall velocity of natural grains in fresh water at 20oC





C31R1\_S2

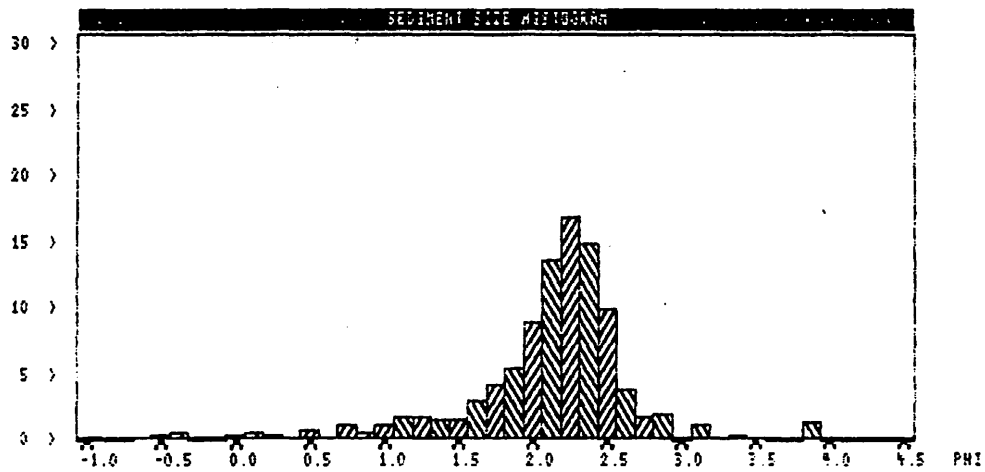
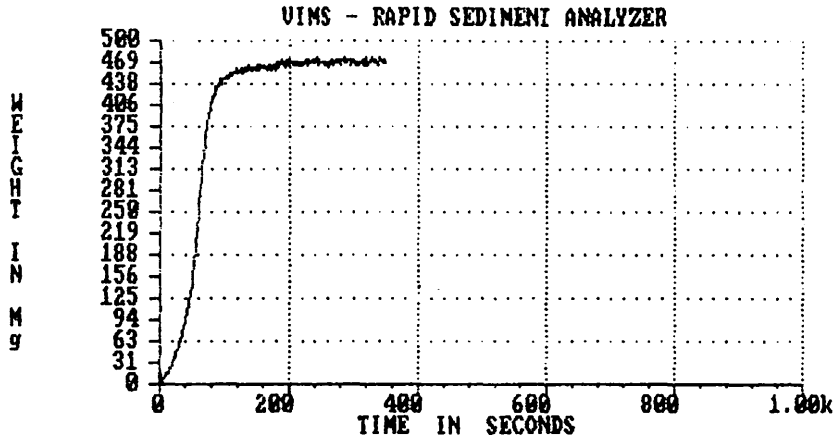
CORE 31 R-1 S-2 1.40-3.05M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
758.0532 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.0281 0.6144 -1.2229 7.1067 M1 M2 M3 M4 (phi)  
2.0656 2.1407 0.4936 -0.3145 0.4998 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.2502	0.0540	0.2502	0.0540
-0.8750	1.8340	18.9156	0.0000	0.0000	0.2502	0.0540
-0.7500	1.6818	17.7631	0.0000	0.0000	0.2502	0.0540
-0.6250	1.5422	16.6582	0.3836	0.0828	0.6339	0.1368
-0.5000	1.4142	15.6003	1.5658	0.3378	2.1997	0.4746
-0.3750	1.2968	14.5884	2.6984	0.5821	4.8981	1.0567
-0.2500	1.1892	13.6217	0.0000	0.0000	4.8981	1.0567
-0.1250	1.0905	12.6995	0.0000	0.0000	4.8981	1.0567
0.0000	1.0000	11.8208	1.6534	0.3567	6.5514	1.4134
0.1250	0.9170	10.9848	2.8866	0.6227	9.4380	2.0361
0.2500	0.8409	10.1905	1.4639	0.3158	10.9019	2.3520
0.3750	0.7711	9.4370	1.0443	0.2253	11.9463	2.5773
0.5000	0.7071	8.7233	3.5205	0.7595	15.4668	3.3368
0.6250	0.6484	8.0484	0.4730	0.1021	15.9398	3.4388
0.7500	0.5946	7.4111	5.1207	1.1047	21.0605	4.5435
0.8750	0.5453	6.8104	2.8425	0.6132	23.9030	5.1568
1.0000	0.5000	6.2452	5.5580	1.1991	29.4610	6.3558
1.1250	0.4585	5.7143	8.1807	1.7649	37.6417	8.1207
1.2500	0.4204	5.2167	8.4370	1.8202	46.0787	9.9409
1.3750	0.3856	4.7510	7.1540	1.5434	53.2327	11.4843
1.5000	0.3536	4.3163	6.9745	1.5047	60.2072	12.9889
1.6250	0.3242	3.9113	14.1880	3.0609	74.3953	16.0498
1.7500	0.2973	3.5349	19.1079	4.1223	93.5032	20.1721
1.8750	0.2726	3.1860	25.5426	5.5105	119.0458	25.6826
2.0000	0.2500	2.8634	40.8407	8.8109	159.8866	34.4935
2.1250	0.2293	2.5660	62.1282	13.4034	222.0147	47.8968
2.2500	0.2102	2.2927	77.6927	16.7612	299.7074	64.6580
2.3750	0.1928	2.0423	68.5178	14.7818	368.2252	79.4399
2.5000	0.1768	1.8137	45.4648	9.8084	413.6900	89.2483
2.6250	0.1621	1.6058	17.8227	3.8450	431.5126	93.0933
2.7500	0.1487	1.4175	7.7848	1.6795	439.2974	94.7728
2.8750	0.1363	1.2476	9.2032	1.9855	448.5006	96.7583
3.0000	0.1250	1.0949	0.0000	0.0000	448.5006	96.7583
3.1250	0.1146	0.9582	5.4970	1.1859	453.9976	97.9442
3.2500	0.1051	0.8364	1.0560	0.2278	455.0537	98.1720
3.3750	0.0964	0.7282	2.1312	0.4598	457.1849	98.6318
3.5000	0.0884	0.6326	0.2800	0.0604	457.4649	98.6922
3.6250	0.0811	0.5484	0.0000	0.0000	457.4649	98.6922
3.7500	0.0743	0.4744	0.0000	0.0000	457.4649	98.6922
3.8750	0.0682	0.4098	6.0620	1.3078	463.5269	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	463.5269	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	463.5269	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	463.5269	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	463.5269	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	463.5269	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C31R2\_S1

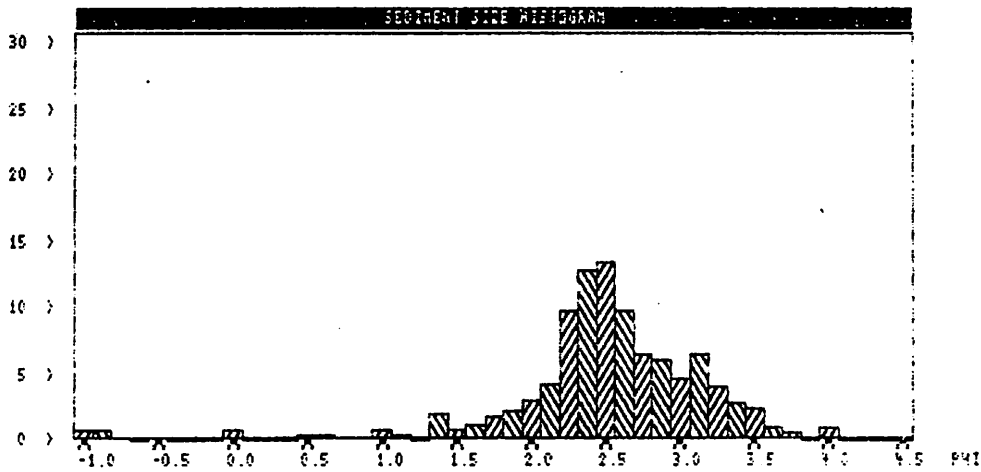
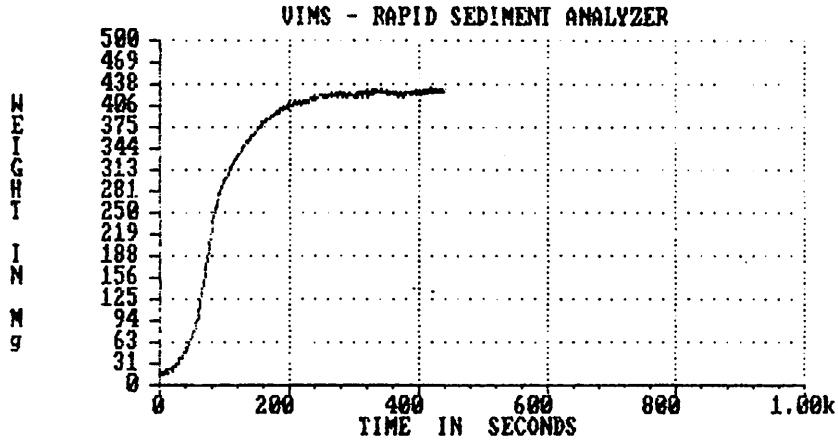
CORE 31 R-2 S-1 0-0.45M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
687.1449 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.4058 0.7425 -1.9005 9.5308 M1 M2 M3 M4 (phi)  
2.4973 2.4482 0.5752 0.0075 0.4466 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.8933	0.6928	2.8933	0.6928
-0.8750	1.8340	18.9156	3.4173	0.8183	6.3106	1.5110
-0.7500	1.6818	17.7631	0.2666	0.0638	6.5773	1.5749
-0.6250	1.5422	16.6582	0.0000	0.0000	6.5773	1.5749
-0.5000	1.4142	15.6003	0.5975	0.1431	7.1747	1.7179
-0.3750	1.2968	14.5884	0.0000	0.0000	7.1747	1.7179
-0.2500	1.1892	13.6217	0.0000	0.0000	7.1747	1.7179
-0.1250	1.0905	12.6995	0.0000	0.0000	7.1747	1.7179
0.0000	1.0000	11.8208	3.4936	0.8365	10.6683	2.5545
0.1250	0.9170	10.9848	0.0000	0.0000	10.6683	2.5545
0.2500	0.8409	10.1905	0.1310	0.0314	10.7994	2.5858
0.3750	0.7711	9.4370	0.0000	0.0000	10.7994	2.5858
0.5000	0.7071	8.7233	1.1690	0.2799	11.9684	2.8658
0.6250	0.6484	8.0484	1.9139	0.4583	13.8823	3.3240
0.7500	0.5946	7.4111	0.2448	0.0586	14.1272	3.3827
0.8750	0.5453	6.8104	0.6236	0.1493	14.7508	3.5320
1.0000	0.5000	6.2452	3.2896	0.7877	18.0403	4.3196
1.1250	0.4585	5.7143	1.8843	0.4512	19.9246	4.7708
1.2500	0.4204	5.2167	0.0000	0.0000	19.9246	4.7708
1.3750	0.3856	4.7510	7.9992	1.9154	27.9238	6.6862
1.5000	0.3536	4.3163	3.5299	0.8452	31.4538	7.5314
1.6250	0.3242	3.9113	5.1321	1.2288	36.5859	8.7602
1.7500	0.2973	3.5349	7.3839	1.7680	43.9698	10.5282
1.8750	0.2726	3.1860	9.3134	2.2300	53.2832	12.7583
2.0000	0.2500	2.8634	12.5318	3.0006	65.8150	15.7589
2.1250	0.2293	2.5660	17.6408	4.2240	83.4558	19.9829
2.2500	0.2102	2.2927	40.2813	9.6451	123.7370	29.6279
2.3750	0.1928	2.0423	52.6040	12.5956	176.3410	42.2236
2.5000	0.1768	1.8137	55.4676	13.2813	231.8086	55.5049
2.6250	0.1621	1.6058	39.9733	9.5713	271.7819	65.0762
2.7500	0.1487	1.4175	26.6248	6.3751	298.4067	71.4513
2.8750	0.1363	1.2476	25.3777	6.0765	323.7844	77.5278
3.0000	0.1250	1.0949	19.2446	4.6080	343.0290	82.1358
3.1250	0.1146	0.9582	26.6619	6.3840	369.6909	88.5198
3.2500	0.1051	0.8364	16.3915	3.9248	386.0825	92.4447
3.3750	0.0964	0.7282	11.8163	2.8293	397.8988	95.2740
3.5000	0.0884	0.6326	9.7522	2.3351	407.6510	97.6091
3.6250	0.0811	0.5484	3.6420	0.8721	411.2930	98.4811
3.7500	0.0743	0.4744	2.1290	0.5098	413.4220	98.9909
3.8750	0.0682	0.4098	0.0000	0.0000	413.4220	98.9909
4.0000	0.0625	0.3533	4.2143	1.0091	417.6363	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	417.6363	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	417.6363	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	417.6363	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	417.6363	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C31R2\_S2

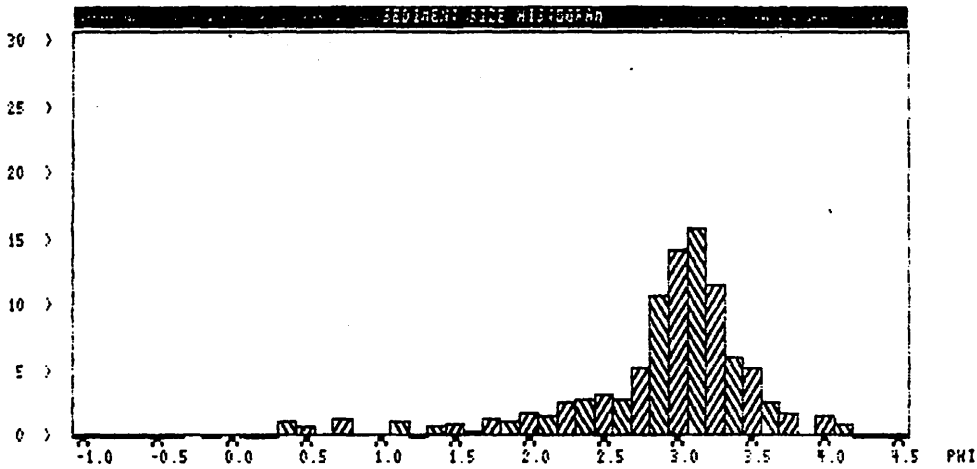
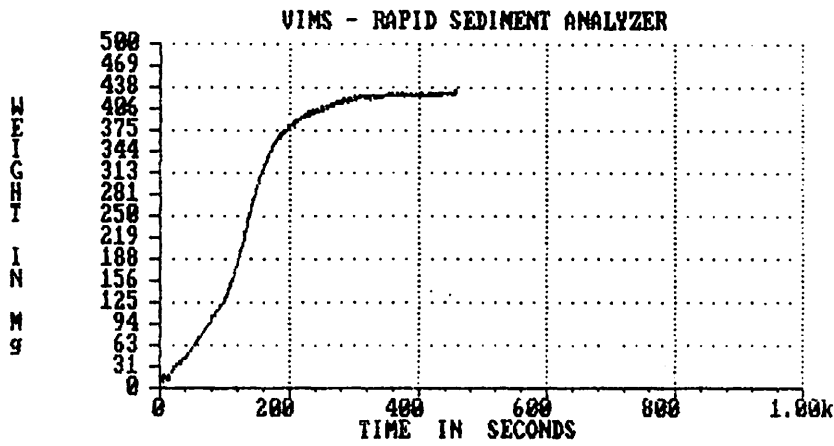
CORE 31 R-2 S-2 0.45-1.35

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
695.7636 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.7815 0.7135 -1.6681 6.3216 M1 M2 M3 M4 (phi)  
2.8347 2.9575 0.6375 -0.4239 0.4881 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.1549	0.0367	0.1549	0.0367
-0.6250	1.5422	16.6582	0.0000	0.0000	0.1549	0.0367
-0.5000	1.4142	15.6003	0.0000	0.0000	0.1549	0.0367
-0.3750	1.2968	14.5884	0.0000	0.0000	0.1549	0.0367
-0.2500	1.1892	13.6217	0.3665	0.0869	0.5214	0.1236
-0.1250	1.0905	12.6995	0.0000	0.0000	0.5214	0.1236
0.0000	1.0000	11.8208	1.0767	0.2552	1.5980	0.3788
0.1250	0.9170	10.9848	0.0000	0.0000	1.5980	0.3788
0.2500	0.8409	10.1905	0.0000	0.0000	1.5980	0.3788
0.3750	0.7711	9.4370	5.0298	1.1924	6.6279	1.5712
0.5000	0.7071	8.7233	3.4599	0.8202	10.0877	2.3914
0.6250	0.6484	8.0484	0.3514	0.0833	10.4391	2.4747
0.7500	0.5946	7.4111	5.9328	1.4065	16.3719	3.8812
0.8750	0.5453	6.8104	0.4301	0.1020	16.8020	3.9831
1.0000	0.5000	6.2452	0.8322	0.1973	17.6342	4.1804
1.1250	0.4585	5.7143	4.5776	1.0852	22.2118	5.2656
1.2500	0.4204	5.2167	0.0000	0.0000	22.2118	5.2656
1.3750	0.3856	4.7510	3.5703	0.8464	25.7821	6.1120
1.5000	0.3536	4.3163	3.7744	0.8948	29.5565	7.0068
1.6250	0.3242	3.9113	1.3496	0.3200	30.9061	7.3267
1.7500	0.2973	3.5349	5.6720	1.3446	36.5781	8.6713
1.8750	0.2726	3.1860	5.0821	1.2048	41.6602	9.8761
2.0000	0.2500	2.8634	7.7496	1.8371	49.4098	11.7132
2.1250	0.2293	2.5660	6.9700	1.6523	56.3798	13.3656
2.2500	0.2102	2.2927	10.6787	2.5315	67.0585	15.8971
2.3750	0.1928	2.0423	11.6418	2.7598	78.7003	18.6569
2.5000	0.1768	1.8137	13.7540	3.2606	92.4543	21.9175
2.6250	0.1621	1.6058	11.9673	2.8370	104.4216	24.7545
2.7500	0.1487	1.4175	22.1317	5.2466	126.5533	30.0011
2.8750	0.1363	1.2476	45.1035	10.6924	171.6568	40.6935
3.0000	0.1250	1.0949	59.4637	14.0967	231.1206	54.7901
3.1250	0.1146	0.9582	66.2247	15.6994	297.3453	70.4896
3.2500	0.1051	0.8364	48.4287	11.4807	345.7740	81.9702
3.3750	0.0964	0.7282	25.4779	6.0399	371.2519	88.0101
3.5000	0.0884	0.6326	21.6819	5.1400	392.9338	93.1501
3.6250	0.0811	0.5484	10.7655	2.5521	403.6992	95.7022
3.7500	0.0743	0.4744	7.2093	1.7091	410.9086	97.4112
3.8750	0.0682	0.4098	0.9578	0.2271	411.8664	97.6383
4.0000	0.0625	0.3533	6.2365	1.4784	418.1029	99.1168
4.1250	0.0573	0.3043	3.7258	0.8832	421.8287	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	421.8287	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	421.8287	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	421.8287	100.0000

\* - fall velocity of natural grains in fresh water at 20c



C31R2\_S3

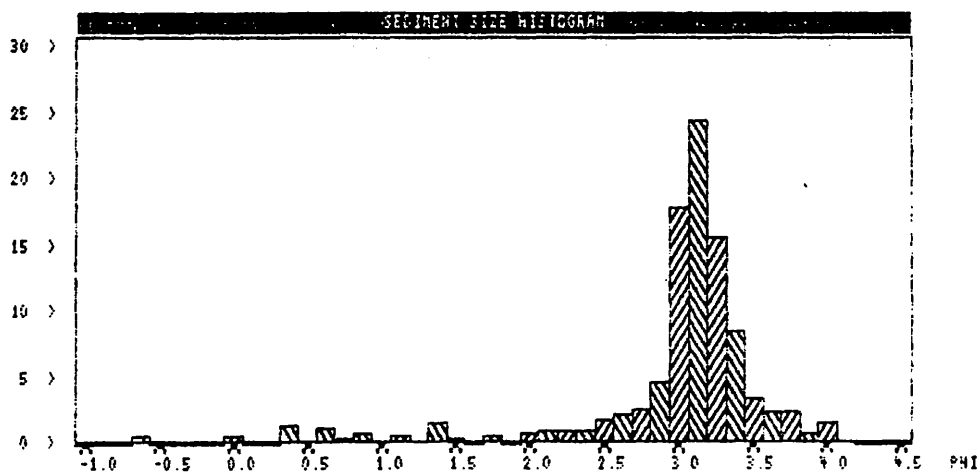
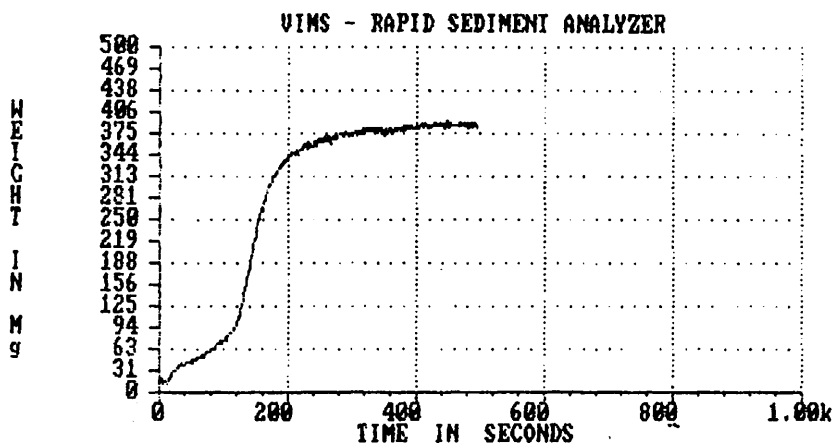
CORE 31 R-2 S-3 1.35-1.96M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
619.3706    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.8747    0.7347    -2.4077    9.3317    M1 M2 M3 M4 (phi)  
2.9920    3.0474    0.5781    -0.4106    0.5497    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.9846	0.5296	1.9846	0.5296
-0.5000	1.4142	15.6003	0.0000	0.0000	1.9846	0.5296
-0.3750	1.2968	14.5884	0.0000	0.0000	1.9846	0.5296
-0.2500	1.1892	13.6217	0.0000	0.0000	1.9846	0.5296
-0.1250	1.0905	12.6995	0.0000	0.0000	1.9846	0.5296
0.0000	1.0000	11.8208	1.7545	0.4682	3.7391	0.9978
0.1250	0.9170	10.9848	0.0000	0.0000	3.7391	0.9978
0.2500	0.8409	10.1905	0.0000	0.0000	3.7391	0.9978
0.3750	0.7711	9.4370	5.1087	1.3634	8.8478	2.3612
0.5000	0.7071	8.7233	0.7909	0.2111	9.6387	2.5723
0.6250	0.6484	8.0484	4.6359	1.2372	14.2746	3.8095
0.7500	0.5946	7.4111	1.3859	0.3698	15.6605	4.1793
0.8750	0.5453	6.8104	2.7655	0.7380	18.4260	4.9174
1.0000	0.5000	6.2452	0.9565	0.2552	19.3825	5.1726
1.1250	0.4585	5.7143	1.9400	0.5177	21.3225	5.6903
1.2500	0.4204	5.2167	0.5543	0.1479	21.8768	5.8383
1.3750	0.3856	4.7510	5.5846	1.4904	27.4614	7.3286
1.5000	0.3536	4.3163	1.2484	0.3332	28.7099	7.6618
1.6250	0.3242	3.9113	0.0000	0.0000	28.7099	7.6618
1.7500	0.2973	3.5349	1.8437	0.4920	30.5536	8.1539
1.8750	0.2726	3.1860	0.0000	0.0000	30.5536	8.1539
2.0000	0.2500	2.8634	2.5931	0.6920	33.1468	8.8459
2.1250	0.2293	2.5660	3.7528	1.0015	36.8996	9.8474
2.2500	0.2102	2.2927	3.7124	0.9907	40.6120	10.8381
2.3750	0.1928	2.0423	3.8265	1.0212	44.4385	11.8593
2.5000	0.1768	1.8137	6.7786	1.8090	51.2171	13.6683
2.6250	0.1621	1.6058	8.4110	2.2446	59.6281	15.9130
2.7500	0.1487	1.4175	9.4113	2.5116	69.0394	18.4246
2.8750	0.1363	1.2476	17.1973	4.5895	86.2368	23.0140
3.0000	0.1250	1.0949	66.6916	17.7980	152.9283	40.8120
3.1250	0.1146	0.9582	90.7838	24.2275	243.7121	65.0395
3.2500	0.1051	0.8364	58.4976	15.6113	302.2098	80.6507
3.3750	0.0964	0.7282	31.7818	8.4816	333.9916	89.1324
3.5000	0.0884	0.6326	12.7383	3.3995	346.7299	92.5318
3.6250	0.0811	0.5484	9.1983	2.4547	355.9281	94.9866
3.7500	0.0743	0.4744	8.9931	2.4000	364.9212	97.3865
3.8750	0.0682	0.4098	3.1790	0.8484	368.1002	98.2349
4.0000	0.0625	0.3533	6.2115	1.6577	374.3117	99.8926
4.1250	0.0573	0.3043	0.4025	0.1074	374.7142	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	374.7142	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.7142	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.7142	100.0000

\* - fall velocity of natural grains in fresh water at 20oC





C31R2\_S7

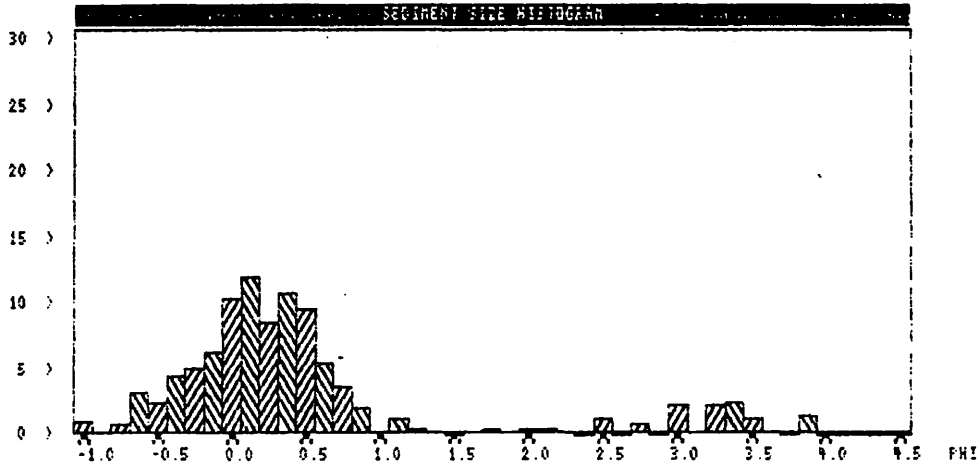
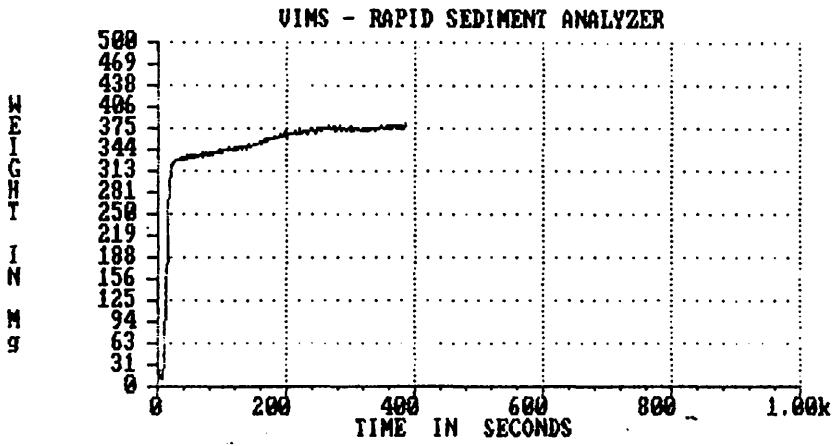
CORE 31 R-2 S-7 2.45-2.59M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
605.2673    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.4850    1.0791    1.7350    5.1667    M1 M2 M3 M4 (phi)  
0.2504    0.1972    0.8616    0.3613    2.7941    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	3.3209	0.9159	3.3209	0.9159
-0.8750	1.8340	18.9156	0.5972	0.1647	3.9182	1.0806
-0.7500	1.6818	17.7631	2.6826	0.7398	6.6007	1.8204
-0.6250	1.5422	16.6582	11.4352	3.1536	18.0359	4.9740
-0.5000	1.4142	15.6003	8.7967	2.4260	26.8326	7.4000
-0.3750	1.2968	14.5884	15.9228	4.3912	42.7554	11.7913
-0.2500	1.1892	13.6217	18.2778	5.0407	61.0332	16.8320
-0.1250	1.0905	12.6995	22.3434	6.1620	83.3766	22.9939
0.0000	1.0000	11.8208	37.1585	10.2477	120.5351	33.2417
0.1250	0.9170	10.9848	43.1981	11.9133	163.7332	45.1550
0.2500	0.8409	10.1905	30.4229	8.3902	194.1561	53.5452
0.3750	0.7711	9.4370	39.0194	10.7609	233.1756	64.3061
0.5000	0.7071	8.7233	34.3579	9.4754	267.5334	73.7815
0.6250	0.6484	8.0484	19.8450	5.4729	287.3784	79.2544
0.7500	0.5946	7.4111	12.8614	3.5470	300.2399	82.8014
0.8750	0.5453	6.8104	7.2794	2.0075	307.5193	84.8089
1.0000	0.5000	6.2452	0.3620	0.0998	307.8813	84.9088
1.1250	0.4585	5.7143	3.9870	1.0996	311.8683	86.0083
1.2500	0.4204	5.2167	1.6499	0.4550	313.5182	86.4633
1.3750	0.3856	4.7510	0.9276	0.2558	314.4459	86.7192
1.5000	0.3536	4.3163	0.0000	0.0000	314.4459	86.7192
1.6250	0.3242	3.9113	0.2659	0.0733	314.7118	86.7925
1.7500	0.2973	3.5349	1.6765	0.4623	316.3882	87.2548
1.8750	0.2726	3.1860	0.6717	0.1852	317.0599	87.4401
2.0000	0.2500	2.8634	1.2985	0.3581	318.3584	87.7982
2.1250	0.2293	2.5660	1.1792	0.3252	319.5376	88.1234
2.2500	0.2102	2.2927	0.6767	0.1866	320.2142	88.3100
2.3750	0.1928	2.0423	0.0000	0.0000	320.2142	88.3100
2.5000	0.1768	1.8137	4.3777	1.2073	324.5919	89.5173
2.6250	0.1621	1.6058	0.0000	0.0000	324.5919	89.5173
2.7500	0.1487	1.4175	2.4300	0.6702	327.0219	90.1874
2.8750	0.1363	1.2476	0.0000	0.0000	327.0219	90.1874
3.0000	0.1250	1.0949	8.1781	2.2554	335.2000	92.4428
3.1250	0.1146	0.9582	0.9078	0.2504	336.1078	92.6932
3.2500	0.1051	0.8364	7.9723	2.1986	344.0801	94.8918
3.3750	0.0964	0.7282	8.5618	2.3612	352.6420	97.2530
3.5000	0.0884	0.6326	4.3595	1.2023	357.0015	98.4553
3.6250	0.0811	0.5484	0.6920	0.1909	357.6935	98.6462
3.7500	0.0743	0.4744	0.0000	0.0000	357.6935	98.6462
3.8750	0.0682	0.4098	4.9090	1.3538	362.6025	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	362.6025	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	362.6025	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	362.6025	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	362.6025	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	362.6025	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C32\_S1

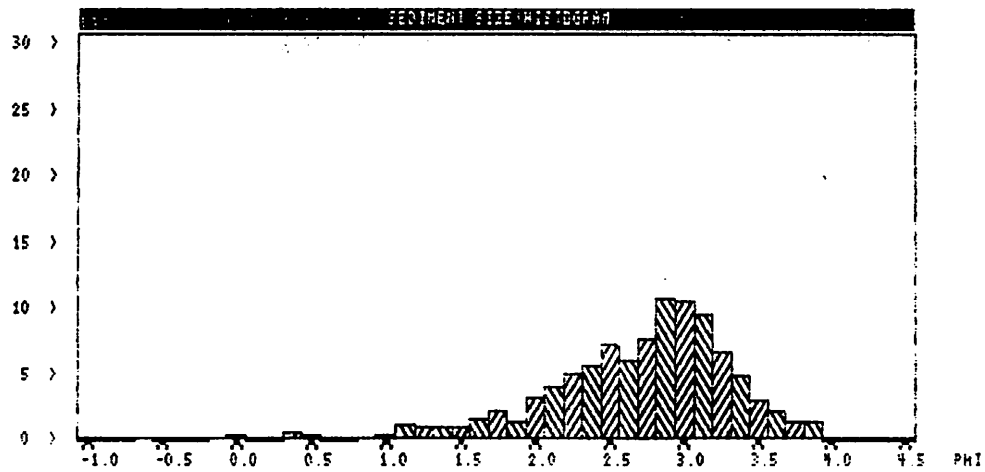
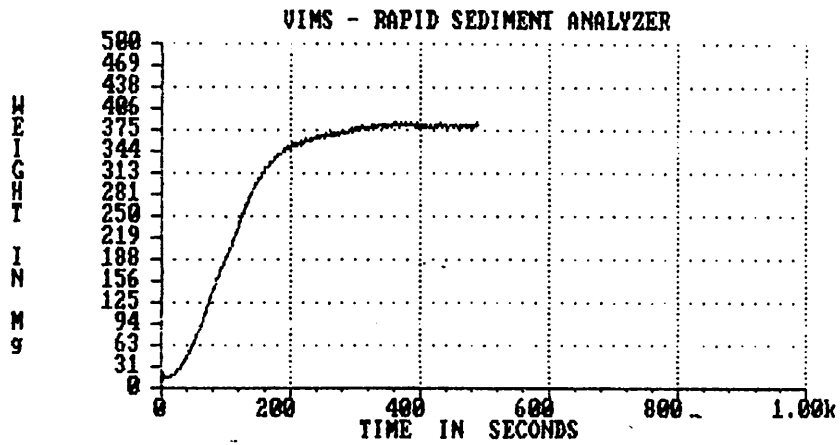
CORE 31 S-1 0-1.17M

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
611.5354    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.6125    0.6603   -1.2058   5.6205   M1 M2 M3 M4 (phi)  
2.6581    2.7477   0.6097   -0.2699   0.4150   Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.8932	0.2435	0.8932	0.2435
-0.5000	1.4142	15.6003	0.0000	0.0000	0.8932	0.2435
-0.3750	1.2968	14.5884	0.0000	0.0000	0.8932	0.2435
-0.2500	1.1892	13.6217	0.0000	0.0000	0.8932	0.2435
-0.1250	1.0905	12.6995	0.2192	0.0598	1.1124	0.3033
0.0000	1.0000	11.8208	1.1186	0.3050	2.2310	0.6083
0.1250	0.9170	10.9848	0.0986	0.0269	2.3296	0.6351
0.2500	0.8409	10.1905	0.0000	0.0000	2.3296	0.6351
0.3750	0.7711	9.4370	2.0310	0.5537	4.3606	1.1889
0.5000	0.7071	8.7233	1.0285	0.2804	5.3890	1.4693
0.6250	0.6484	8.0484	0.0000	0.0000	5.3890	1.4693
0.7500	0.5946	7.4111	0.0000	0.0000	5.3890	1.4693
0.8750	0.5453	6.8104	0.5700	0.1554	5.9590	1.6247
1.0000	0.5000	6.2452	1.4711	0.4011	7.4301	2.0258
1.1250	0.4585	5.7143	3.9779	1.0845	11.4080	3.1103
1.2500	0.4204	5.2167	3.8307	1.0444	15.2387	4.1547
1.3750	0.3856	4.7510	3.8011	1.0363	19.0398	5.1911
1.5000	0.3536	4.3163	3.7597	1.0251	22.7996	6.2161
1.6250	0.3242	3.9113	6.0632	1.6531	28.8627	7.8692
1.7500	0.2973	3.5349	8.0720	2.2008	36.9347	10.0700
1.8750	0.2726	3.1860	5.3835	1.4678	42.3182	11.5377
2.0000	0.2500	2.8634	11.4609	3.1247	53.7791	14.6625
2.1250	0.2293	2.5660	14.4288	3.9339	68.2079	18.5964
2.2500	0.2102	2.2927	18.6350	5.0807	86.8429	23.6771
2.3750	0.1928	2.0423	20.7513	5.6577	107.5942	29.3347
2.5000	0.1768	1.8137	26.3073	7.1725	133.9015	36.5072
2.6250	0.1621	1.6058	21.8566	5.9590	155.7581	42.4662
2.7500	0.1487	1.4175	28.1591	7.6774	183.9172	50.1436
2.8750	0.1363	1.2476	39.3686	10.7336	223.2858	60.8771
3.0000	0.1250	1.0949	38.5981	10.5235	261.8839	71.4006
3.1250	0.1146	0.9582	34.8095	9.4905	296.6934	80.8912
3.2500	0.1051	0.8364	24.1180	6.5756	320.8114	87.4668
3.3750	0.0964	0.7282	17.4730	4.7639	338.2844	92.2306
3.5000	0.0884	0.6326	10.8466	2.9572	349.1310	95.1879
3.6250	0.0811	0.5484	7.6776	2.0932	356.8086	97.2811
3.7500	0.0743	0.4744	5.2701	1.4369	362.0787	98.7180
3.8750	0.0682	0.4098	4.7022	1.2820	366.7810	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	366.7810	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	366.7810	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	366.7810	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	366.7810	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	366.7810	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C32\_S5

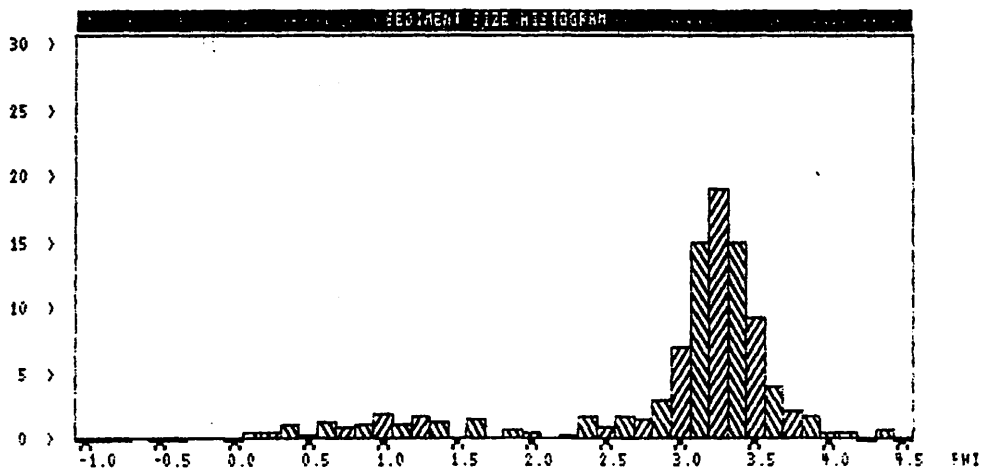
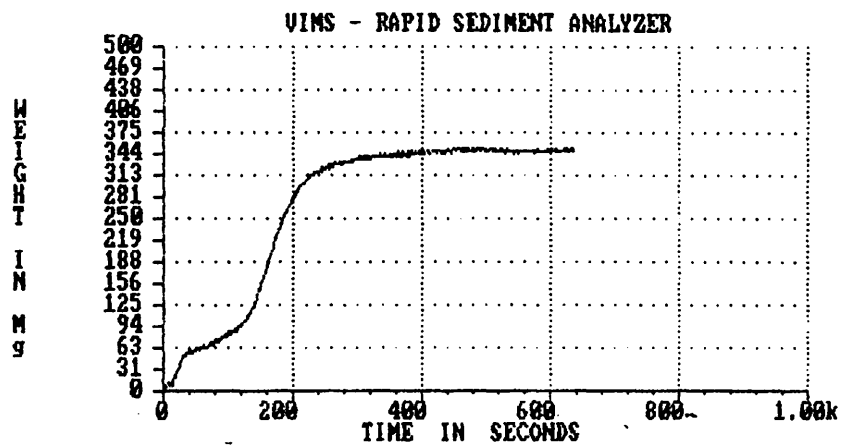
CORE 32 S-5 1.56-2.24M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
560.9986 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.8353 0.8972 -1.6763 5.0012 M1 M2 M3 M4 (phi)  
2.8792 3.1438 0.7840 -0.6189 0.5652 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.8900	0.2592	0.8900	0.2592
-0.5000	1.4142	15.6003	0.0000	0.0000	0.8900	0.2592
-0.3750	1.2968	14.5884	0.0000	0.0000	0.8900	0.2592
-0.2500	1.1892	13.6217	0.2988	0.0870	1.1888	0.3463
-0.1250	1.0905	12.6995	0.4658	0.1357	1.6545	0.4819
0.0000	1.0000	11.8208	0.0000	0.0000	1.6545	0.4819
0.1250	0.9170	10.9848	1.7846	0.5198	3.4391	1.0017
0.2500	0.8409	10.1905	1.7801	0.5185	5.2192	1.5202
0.3750	0.7711	9.4370	3.8125	1.1105	9.0317	2.6307
0.5000	0.7071	8.7233	1.2845	0.3741	10.3161	3.0049
0.6250	0.6484	8.0484	4.7406	1.3808	15.0568	4.3857
0.7500	0.5946	7.4111	3.3006	0.9614	18.3574	5.3471
0.8750	0.5453	6.8104	3.7495	1.0921	22.1068	6.4392
1.0000	0.5000	6.2452	6.9627	2.0281	29.0696	8.4673
1.1250	0.4585	5.7143	3.7413	1.0897	32.8108	9.5571
1.2500	0.4204	5.2167	5.7879	1.6859	38.5987	11.2430
1.3750	0.3856	4.7510	4.7348	1.3791	43.3335	12.6221
1.5000	0.3536	4.3163	0.6907	0.2012	44.0242	12.8233
1.6250	0.3242	3.9113	5.1855	1.5104	49.2097	14.3337
1.7500	0.2973	3.5349	0.5788	0.1686	49.7885	14.5023
1.8750	0.2726	3.1860	2.6042	0.7585	52.3927	15.2608
2.0000	0.2500	2.8634	2.1705	0.6322	54.5632	15.8931
2.1250	0.2293	2.5660	0.5915	0.1723	55.1546	16.0653
2.2500	0.2102	2.2927	0.9537	0.2778	56.1083	16.3431
2.3750	0.1928	2.0423	6.0805	1.7711	62.1888	18.1142
2.5000	0.1768	1.8137	3.0500	0.8884	65.2388	19.0026
2.6250	0.1621	1.6058	6.3487	1.8492	71.5874	20.8518
2.7500	0.1487	1.4175	5.1142	1.4896	76.7016	22.3415
2.8750	0.1363	1.2476	9.9211	2.8898	86.6227	25.2313
3.0000	0.1250	1.0949	24.0211	6.9968	110.6438	32.2281
3.1250	0.1146	0.9582	51.2300	14.9222	161.8738	47.1503
3.2500	0.1051	0.8364	64.9111	18.9072	226.7849	66.0575
3.3750	0.0964	0.7282	51.2390	14.9248	278.0240	80.9823
3.5000	0.0884	0.6326	31.5442	9.1881	309.5682	90.1704
3.6250	0.0811	0.5484	13.7843	4.0151	323.3525	94.1855
3.7500	0.0743	0.4744	7.5953	2.2123	330.9478	96.3978
3.8750	0.0682	0.4098	5.9430	1.7311	336.8908	98.1289
4.0000	0.0625	0.3533	2.0712	0.6033	338.9619	98.7322
4.1250	0.0573	0.3043	2.0208	0.5886	340.9827	99.3208
4.2500	0.0526	0.2617	0.0000	0.0000	340.9827	99.3208
4.3750	0.0482	0.2248	2.3318	0.6792	343.3146	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	343.3146	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C32\_S10

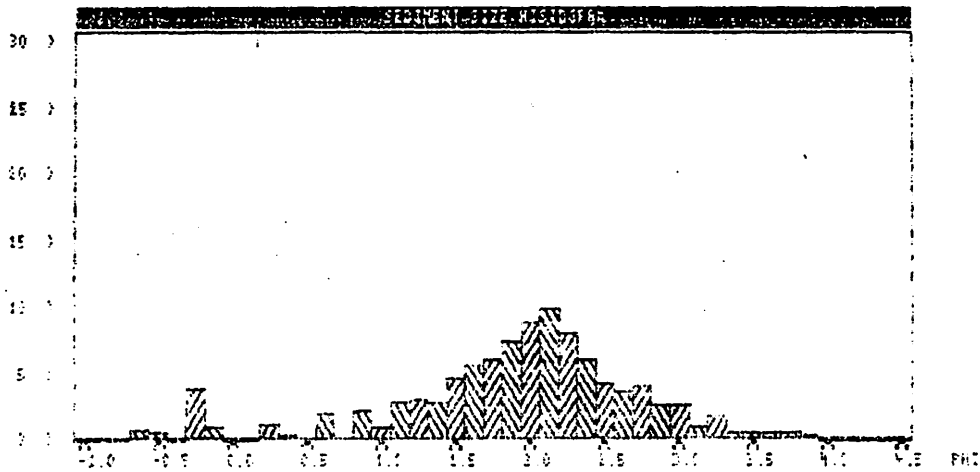
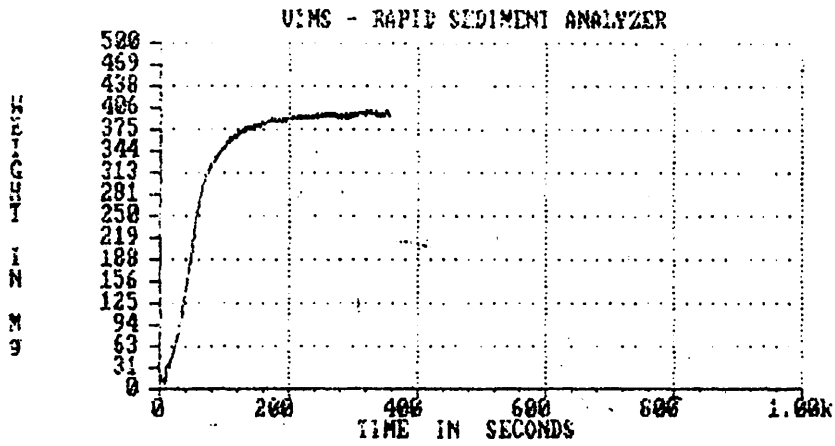
CORE 32 S10 3.65-3.90M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 640.1328 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^*0.913$   
 1.8317 0.8510 -0.7784 3.9610 M1 M2 M3 M4 (phi)  
 1.8889 1.9459 0.8633 -0.2204 0.7936 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	2.8204	0.7227	2.8204	0.7227
-0.5000	1.4142	15.6003	2.0965	0.5372	4.9169	1.2598
-0.3750	1.2968	14.5884	0.2143	0.0549	5.1312	1.3147
-0.2500	1.1892	13.6217	14.5014	3.7157	19.6326	5.0304
-0.1250	1.0905	12.6995	3.5353	0.9058	23.1678	5.9362
0.0000	1.0000	11.8208	0.0000	0.0000	23.1678	5.9362
0.1250	0.9170	10.9848	0.0000	0.0000	23.1678	5.9362
0.2500	0.8409	10.1905	4.9155	1.2595	28.0833	7.1957
0.3750	0.7711	9.4370	1.3270	0.3400	29.4102	7.5357
0.5000	0.7071	8.7233	0.4915	0.1259	29.9017	7.6617
0.6250	0.6484	8.0484	7.4066	1.8978	37.3083	9.5594
0.7500	0.5946	7.4111	0.4819	0.1235	37.7903	9.6829
0.8750	0.5453	6.8104	8.5424	2.1888	46.3327	11.8717
1.0000	0.5000	6.2452	3.9530	1.0129	50.2857	12.8846
1.1250	0.4585	5.7143	10.6629	2.7321	60.9485	15.6167
1.2500	0.4204	5.2167	11.6248	2.9786	72.5733	18.5953
1.3750	0.3856	4.7510	10.8806	2.7879	83.4539	21.3832
1.5000	0.3536	4.3163	17.8591	4.5760	101.3130	25.9592
1.6250	0.3242	3.9113	21.8259	5.5924	123.1389	31.5516
1.7500	0.2973	3.5349	23.5727	6.0400	146.7116	37.5916
1.8750	0.2726	3.1860	28.6700	7.3461	175.3816	44.9376
2.0000	0.2500	2.8634	34.8309	8.9246	210.2125	53.8623
2.1250	0.2293	2.5660	38.0741	9.7556	248.2866	63.6179
2.2500	0.2102	2.2927	31.2630	8.0105	279.5497	71.6284
2.3750	0.1928	2.0423	23.2447	5.9559	302.7943	77.5843
2.5000	0.1768	1.8137	16.6019	4.1001	318.7962	81.6844
2.6250	0.1621	1.6058	14.1901	3.6359	322.9863	85.3203
2.7500	0.1487	1.4175	15.2767	3.9143	348.2630	89.2346
2.8750	0.1363	1.2476	9.9877	2.5591	358.2507	91.7938
3.0000	0.1250	1.0949	10.1566	2.6024	368.4073	94.3962
3.1250	0.1146	0.9582	4.0253	1.0314	372.4327	95.4276
3.2500	0.1051	0.8364	6.7926	1.7405	379.2253	97.1680
3.3750	0.0964	0.7282	2.5545	0.6545	381.7798	97.8226
3.5000	0.0884	0.6326	2.4139	0.6185	384.1937	98.4411
3.6250	0.0811	0.5484	1.9294	0.4944	386.1232	98.9355
3.7500	0.0743	0.4744	2.5378	0.6503	388.6610	99.5857
3.8750	0.0682	0.4098	1.6168	0.4143	390.2778	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	390.2778	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	390.2778	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	390.2778	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	390.2778	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	390.2778	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C32\_S12

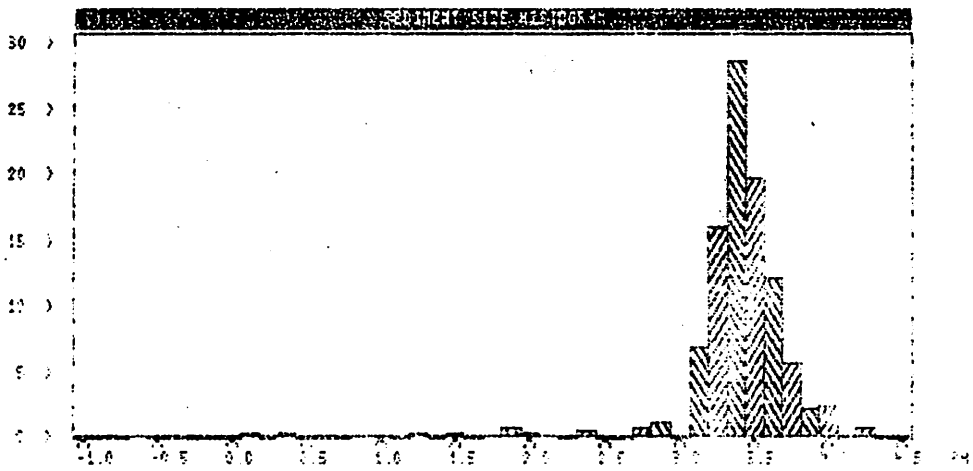
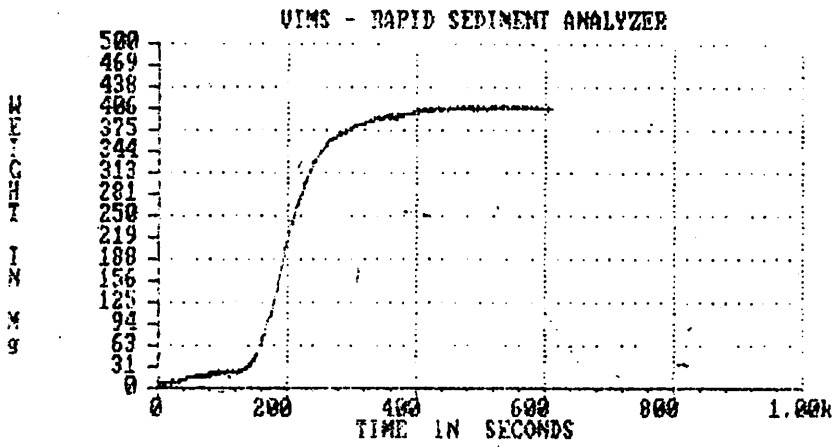
CORE 32 S12 3.98-4.51M

VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 651.8866    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using Wn=0.977Wn\*0.913  
 3.2961    0.4689    -3.8344    23.6793    M1 M2 M3 M4 (phi)  
 3.3549    3.3429    0.2567    -0.0272    0.1882    Mz,Md,S1,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.2411	0.0597	0.2411	0.0597
-0.5000	1.4142	15.6003	0.0000	0.0000	0.2411	0.0597
-0.3750	1.2968	14.5884	0.0000	0.0000	0.2411	0.0597
-0.2500	1.1892	13.6217	0.0000	0.0000	0.2411	0.0597
-0.1250	1.0905	12.6995	0.0725	0.0180	0.3136	0.0777
0.0000	1.0000	11.8208	0.0000	0.0000	0.3136	0.0777
0.1250	0.9170	10.9848	1.3235	0.3279	1.6371	0.4056
0.2500	0.8409	10.1905	0.0000	0.0000	1.6371	0.4056
0.3750	0.7711	9.4370	1.5795	0.3913	3.2166	0.7969
0.5000	0.7071	8.7233	0.0000	0.0000	3.2166	0.7969
0.6250	0.6484	8.0484	0.0000	0.0000	3.2166	0.7969
0.7500	0.5946	7.4111	0.0000	0.0000	3.2166	0.7969
0.8750	0.5453	6.8104	0.4717	0.1169	3.6884	0.9138
1.0000	0.5000	6.2452	0.3929	0.0973	4.0813	1.0111
1.1250	0.4585	5.7143	0.1205	0.0298	4.2018	1.0410
1.2500	0.4204	5.2167	1.4139	0.3503	5.6157	1.3913
1.3750	0.3856	4.7510	0.0000	0.0000	5.6157	1.3913
1.5000	0.3536	4.3163	1.8547	0.4595	7.4704	1.8508
1.6250	0.3242	3.9113	0.0000	0.0000	7.4704	1.8508
1.7500	0.2973	3.5349	1.0512	0.2604	8.5216	2.1112
1.8750	0.2726	3.1860	3.4188	0.8470	11.9404	2.9582
2.0000	0.2500	2.8634	1.1380	0.2819	13.0784	3.2401
2.1250	0.2293	2.5660	1.0135	0.2511	14.0919	3.4912
2.2500	0.2102	2.2927	0.0000	0.0000	14.0919	3.4912
2.3750	0.1928	2.0423	2.1435	0.5310	16.2355	4.0223
2.5000	0.1768	1.8137	0.0000	0.0000	16.2355	4.0223
2.6250	0.1621	1.6058	0.0000	0.0000	16.2355	4.0223
2.7500	0.1487	1.4175	2.9385	0.7280	19.1740	4.7503
2.8750	0.1363	1.2476	4.9395	1.2237	24.1135	5.9740
3.0000	0.1250	1.0949	0.1859	0.0461	24.2994	6.0201
3.1250	0.1146	0.9582	27.8846	6.9083	52.1840	12.9284
3.2500	0.1051	0.8364	64.0934	15.8790	116.2774	28.8074
3.3750	0.0964	0.7282	115.1471	28.5274	231.4245	57.3347
3.5000	0.0884	0.6326	79.2186	19.6262	310.6432	76.9609
3.6250	0.0811	0.5484	48.9179	12.1193	359.5611	89.0802
3.7500	0.0743	0.4744	22.3545	5.5383	381.9156	94.6184
3.8750	0.0682	0.4098	9.0693	2.2469	390.9849	96.8653
4.0000	0.0625	0.3533	9.7738	2.4214	400.7587	99.2868
4.1250	0.0573	0.3043	0.0000	0.0000	400.7587	99.2868
4.2500	0.0526	0.2617	2.8789	0.7132	403.6376	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	403.6376	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	403.6376	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C32\_S14

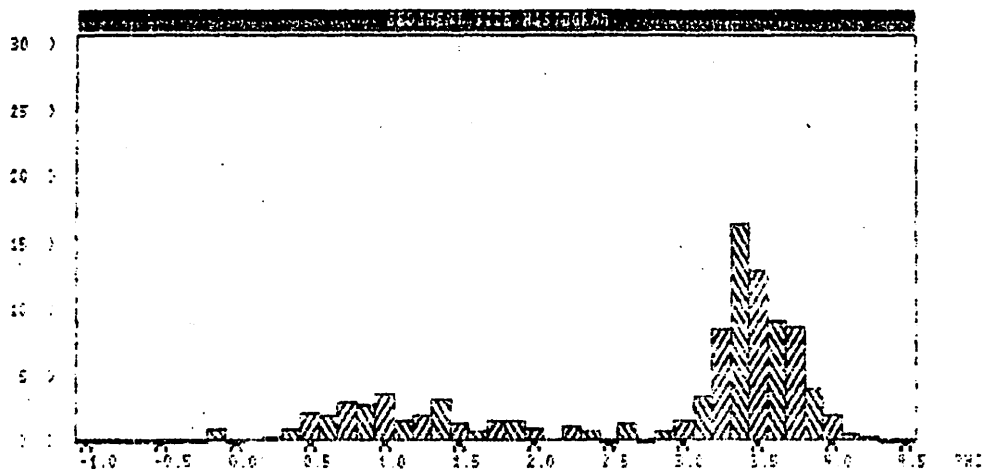
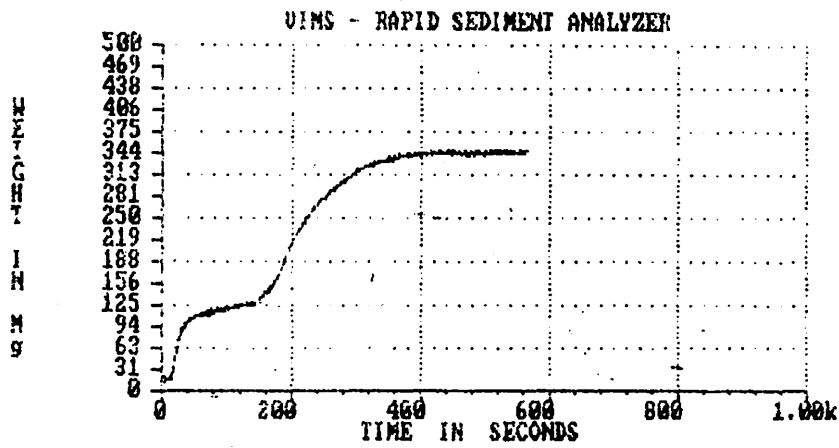
CORE 32 S14 4.74-5.00M

VA.BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
557.4727 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s+0.913$   
2.6965 1.1513 -0.9479 2.3638 M1 M2 M3 M4 (phi)  
2.6364 3.2794 1.1498 -0.7084 0.4785 Mz,Md,Sl,SIL,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0820	0.0245	0.0820	0.0245
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0820	0.0245
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0820	0.0245
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0820	0.0245
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0820	0.0245
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0820	0.0245
-0.1250	1.0905	12.6995	3.5501	1.0608	3.6321	1.0853
0.0000	1.0000	11.8208	0.0000	0.0000	3.6321	1.0853
0.1250	0.9170	10.9848	0.4354	0.1301	4.0675	1.2154
0.2500	0.8409	10.1905	0.9144	0.2732	4.9819	1.4886
0.3750	0.7711	9.4370	3.0649	0.9158	8.0468	2.4045
0.5000	0.7071	8.7233	7.4590	2.2288	15.5058	4.6333
0.6250	0.6484	8.0484	6.6364	1.9830	22.1422	6.6163
0.7500	0.5946	7.4111	9.9547	2.9746	32.0969	9.5909
0.8750	0.5453	6.8104	9.2743	2.7713	41.3712	12.3621
1.0000	0.5000	6.2452	11.7141	3.5003	53.0853	15.8624
1.1250	0.4585	5.7143	4.9953	1.4926	58.0806	17.3551
1.2500	0.4204	5.2167	6.5534	1.9582	64.6340	19.3133
1.3750	0.3856	4.7510	10.7337	3.2073	75.3677	22.5206
1.5000	0.3536	4.3163	4.4787	1.3383	79.8464	23.8589
1.6250	0.3242	3.9113	2.3973	0.7163	82.2437	24.5752
1.7500	0.2973	3.5349	4.9424	1.4769	87.1862	26.0521
1.8750	0.2726	3.1860	5.3353	1.5942	92.5214	27.6463
2.0000	0.2500	2.8634	3.5430	1.0587	96.0645	28.7050
2.1250	0.2293	2.5660	0.2176	0.0650	96.2821	28.7700
2.2500	0.2102	2.2927	3.9747	1.1877	100.2568	29.9577
2.3750	0.1928	2.0423	2.5262	0.7548	102.7830	30.7126
2.5000	0.1768	1.8137	0.0000	0.0000	102.7830	30.7126
2.6250	0.1621	1.6058	4.3127	1.2887	107.0957	32.0012
2.7500	0.1487	1.4175	0.0000	0.0000	107.0957	32.0012
2.8750	0.1363	1.2476	2.3268	0.6953	109.4225	32.6965
3.0000	0.1250	1.0949	5.2954	1.5823	114.7179	34.2788
3.1250	0.1146	0.9582	11.4914	3.4337	126.2093	37.7126
3.2500	0.1051	0.8354	28.2465	8.4403	154.4558	46.1529
3.3750	0.0964	0.7282	54.6879	16.3413	209.1436	62.4942
3.5000	0.0884	0.6326	43.1165	12.8836	252.2601	75.3778
3.6250	0.0811	0.5484	30.4703	9.1048	282.7305	84.4826
3.7500	0.0743	0.4744	28.6772	8.5690	311.4076	93.0517
3.8750	0.0682	0.4098	13.4109	4.0073	324.8186	97.0590
4.0000	0.0625	0.3533	6.9421	2.0744	331.7607	99.1334
4.1250	0.0573	0.3043	1.7239	0.5151	333.4846	99.6485
4.2500	0.0526	0.2617	1.1764	0.3515	334.6610	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	334.6610	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	334.6610	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C32\_S15

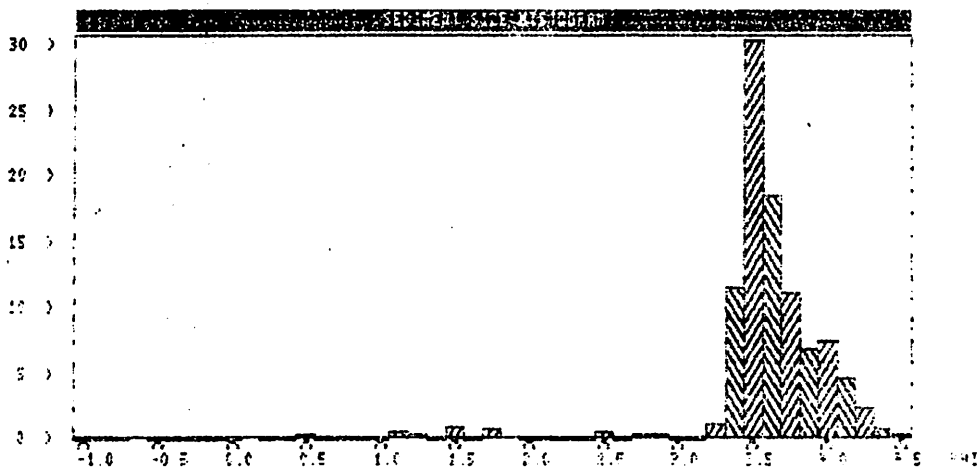
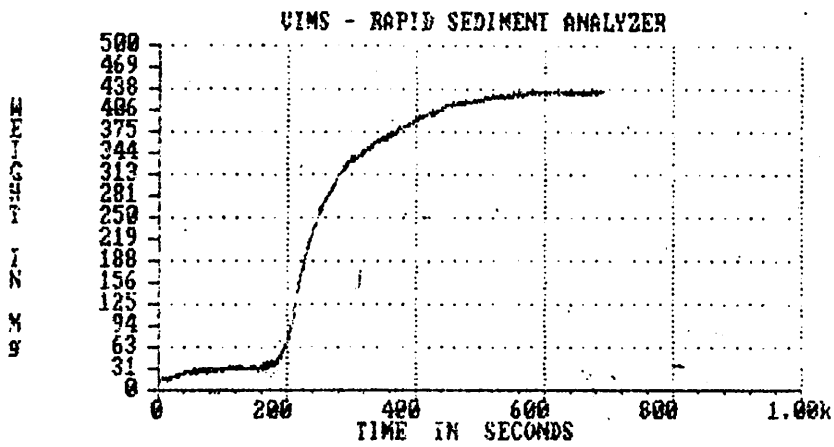
CORE 32 S15 5.00-5.75M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
698.5059 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{*0.913}$   
3.5060 0.5201 -3.6085 21.4875 M1 M2 M3 M4 (phi)  
3.5815 3.5120 0.2629 0.3423 0.1590 Mz,Md,SI,SFI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.6378	0.1508	0.6378	0.1508
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6378	0.1508
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6378	0.1508
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6378	0.1508
-0.1250	1.0905	12.6995	0.0000	0.0000	0.6378	0.1508
0.0000	1.0000	11.8208	0.0000	0.0000	0.6378	0.1508
0.1250	0.9170	10.9848	0.5664	0.1339	1.2042	0.2847
0.2500	0.8409	10.1905	0.0000	0.0000	1.2042	0.2847
0.3750	0.7711	9.4370	0.0000	0.0000	1.2042	0.2847
0.5000	0.7071	8.7233	1.5261	0.3609	2.7303	0.6456
0.6250	0.6484	8.0484	0.0000	0.0000	2.7303	0.6456
0.7500	0.5946	7.4111	0.1713	0.0405	2.9016	0.6861
0.8750	0.5453	6.8104	0.0000	0.0000	2.9016	0.6861
1.0000	0.5000	6.2452	0.0000	0.0000	2.9016	0.6861
1.1250	0.4585	5.7143	2.2493	0.5318	5.1509	1.2179
1.2500	0.4204	5.2167	1.4616	0.3456	6.6124	1.5635
1.3750	0.3856	4.7510	0.0000	0.0000	6.6124	1.5635
1.5000	0.3536	4.3163	4.0033	0.9466	10.6157	2.5101
1.6250	0.3242	3.9113	0.0000	0.0000	10.6157	2.5101
1.7500	0.2973	3.5349	2.9084	0.6877	13.5242	3.1978
1.8750	0.2726	3.1860	0.2608	0.0617	13.7850	3.2595
2.0000	0.2500	2.8634	0.0000	0.0000	13.7850	3.2595
2.1250	0.2293	2.5660	0.0000	0.0000	13.7850	3.2595
2.2500	0.2102	2.2927	0.0000	0.0000	13.7850	3.2595
2.3750	0.1928	2.0423	0.0000	0.0000	13.7850	3.2595
2.5000	0.1768	1.8137	2.4830	0.5871	16.2679	3.8466
2.6250	0.1621	1.6058	0.0000	0.0000	16.2679	3.8466
2.7500	0.1487	1.4175	1.2873	0.3044	17.5552	4.1510
2.8750	0.1363	1.2476	1.3602	0.3216	18.9154	4.4726
3.0000	0.1250	1.0949	0.0000	0.0000	18.9154	4.4726
3.1250	0.1146	0.9582	0.0000	0.0000	18.9154	4.4726
3.2500	0.1051	0.8364	4.7636	1.1264	23.6790	5.5990
3.3750	0.0964	0.7282	48.3091	11.4228	71.9881	17.0218
3.5000	0.0884	0.6326	132.0403	31.2213	204.0284	48.2430
3.6250	0.0811	0.5484	77.2534	18.2668	281.2818	66.5098
3.7500	0.0743	0.4744	46.7417	11.0522	328.0234	77.5620
3.8750	0.0682	0.4098	28.6692	6.7789	356.6927	84.3409
4.0000	0.0625	0.3533	31.6992	7.4953	388.8918	91.8362
4.1250	0.0573	0.3043	19.5301	4.6179	407.9219	96.4542
4.2500	0.0526	0.2617	10.2050	2.4130	418.1269	98.8672
4.3750	0.0482	0.2248	2.8871	0.6827	421.8140	99.5498
4.5000	0.0442	0.1930	1.9039	0.4502	422.9179	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C33\_S1

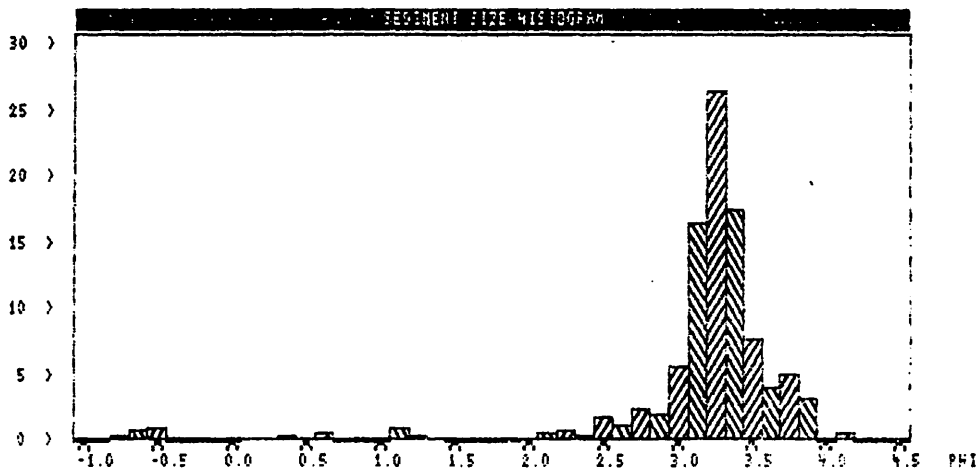
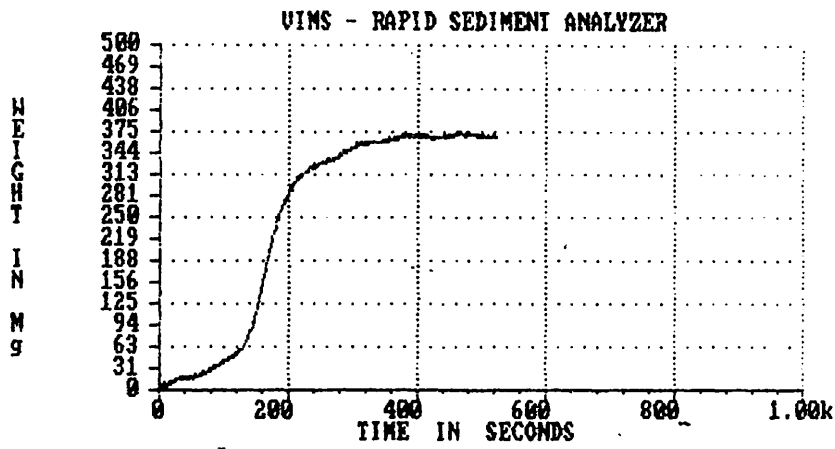
CORE 33 S-1 0-0.95M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
589.5970 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
3.0517 0.7359 -3.4459 16.3641 M1 M2 M3 M4 (phi)  
3.1841 3.1910 0.3956 -0.2160 0.3385 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.1423	0.3105	1.1423	0.3105
-0.6250	1.5422	16.6582	3.0291	0.8233	4.1714	1.1338
-0.5000	1.4142	15.6003	3.4952	0.9500	7.6666	2.0838
-0.3750	1.2968	14.5884	0.0000	0.0000	7.6666	2.0838
-0.2500	1.1892	13.6217	0.0000	0.0000	7.6666	2.0838
-0.1250	1.0905	12.6995	0.0000	0.0000	7.6666	2.0838
0.0000	1.0000	11.8208	0.0000	0.0000	7.6666	2.0838
0.1250	0.9170	10.9848	0.4975	0.1352	8.1641	2.2190
0.2500	0.8409	10.1905	0.2994	0.0814	8.4635	2.3004
0.3750	0.7711	9.4370	1.2776	0.3472	9.7410	2.6476
0.5000	0.7071	8.7233	0.5369	0.1459	10.2780	2.7936
0.6250	0.6484	8.0484	1.9031	0.5173	12.1811	3.3109
0.7500	0.5946	7.4111	0.0050	0.0014	12.1861	3.3122
0.8750	0.5453	6.8104	0.0000	0.0000	12.1861	3.3122
1.0000	0.5000	6.2452	0.0000	0.0000	12.1861	3.3122
1.1250	0.4585	5.7143	3.3706	0.9161	15.5566	4.2283
1.2500	0.4204	5.2167	1.1714	0.3184	16.7280	4.5467
1.3750	0.3856	4.7510	0.8169	0.2220	17.5449	4.7687
1.5000	0.3536	4.3163	0.0000	0.0000	17.5449	4.7687
1.6250	0.3242	3.9113	0.0000	0.0000	17.5449	4.7687
1.7500	0.2973	3.5349	0.0000	0.0000	17.5449	4.7687
1.8750	0.2726	3.1860	0.1475	0.0401	17.6924	4.8088
2.0000	0.2500	2.8634	0.7964	0.2165	18.4888	5.0253
2.1250	0.2293	2.5660	2.3333	0.6342	20.8221	5.6595
2.2500	0.2102	2.2927	3.1713	0.8620	23.9933	6.5214
2.3750	0.1928	2.0423	1.3718	0.3729	25.3651	6.8943
2.5000	0.1768	1.8137	6.7250	1.8279	32.0901	8.7222
2.6250	0.1621	1.6058	4.1665	1.1325	36.2567	9.8546
2.7500	0.1487	1.4175	8.6870	2.3611	44.9436	12.2158
2.8750	0.1363	1.2476	7.4069	2.0132	52.3506	14.2290
3.0000	0.1250	1.0949	20.8452	5.6658	73.1958	19.8948
3.1250	0.1146	0.9582	59.8022	16.2544	132.9980	36.1492
3.2500	0.1051	0.8364	96.4457	26.2142	229.4437	62.3633
3.3750	0.0964	0.7282	63.4265	17.2395	292.8701	79.6028
3.5000	0.0884	0.6326	28.0436	7.6223	320.9137	87.2251
3.6250	0.0811	0.5484	14.9083	4.0521	335.8220	91.2772
3.7500	0.0743	0.4744	18.6489	5.0688	354.4709	96.3460
3.8750	0.0682	0.4098	11.5164	3.1302	365.9873	99.4762
4.0000	0.0625	0.3533	0.0000	0.0000	365.9873	99.4762
4.1250	0.0573	0.3043	1.9271	0.5238	367.9144	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	367.9144	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	367.9144	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	367.9144	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C33\_S2

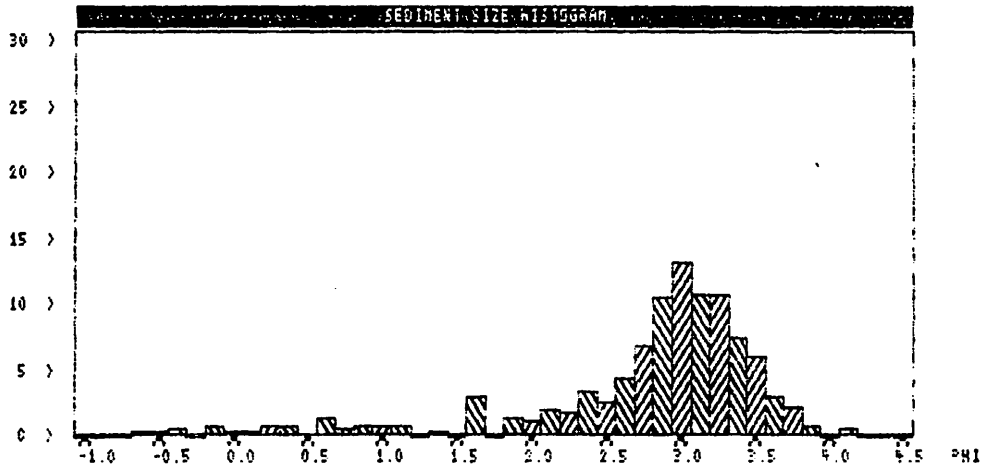
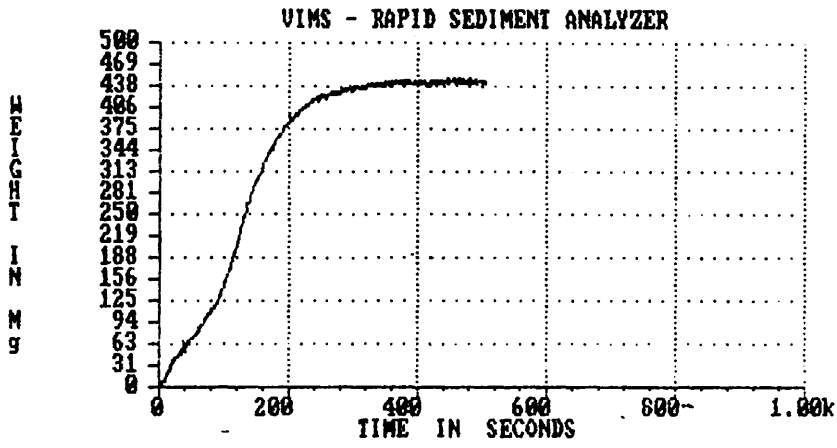
CORE 33 S-2 0.95-1.54M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
712.6092 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.6716 0.8746 -1.7989 6.1366 M1 M2 M3 M4 (phi)  
2.7712 2.9151 0.7648 -0.4592 0.5722 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0284	0.0065	0.0284	0.0065
-0.6250	1.5422	16.6582	1.4655	0.3341	1.4939	0.3406
-0.5000	1.4142	15.6003	1.6912	0.3856	3.1851	0.7261
-0.3750	1.2968	14.5884	2.5485	0.5810	5.7336	1.3071
-0.2500	1.1892	13.6217	0.0000	0.0000	5.7336	1.3071
-0.1250	1.0905	12.6995	3.0299	0.6908	8.7635	1.9979
0.0000	1.0000	11.8208	1.8345	0.4182	10.5980	2.4161
0.1250	0.9170	10.9848	1.6801	0.3830	12.2781	2.7992
0.2500	0.8409	10.1905	3.3009	0.7525	15.5790	3.5517
0.3750	0.7711	9.4370	3.0259	0.6898	18.6049	4.2415
0.5000	0.7071	8.7233	0.7065	0.1611	19.3114	4.4026
0.6250	0.6484	8.0484	6.2883	1.4336	25.5997	5.8362
0.7500	0.5946	7.4111	2.2416	0.5110	27.8413	6.3472
0.8750	0.5453	6.8104	3.6439	0.8307	31.4852	7.1780
1.0000	0.5000	6.2452	3.2488	0.7407	34.7341	7.9186
1.1250	0.4585	5.7143	3.3071	0.7540	38.0412	8.6726
1.2500	0.4204	5.2167	0.0000	0.0000	38.0412	8.6726
1.3750	0.3856	4.7510	1.9412	0.4426	39.9824	9.1152
1.5000	0.3536	4.3163	0.0000	0.0000	39.9824	9.1152
1.6250	0.3242	3.9113	13.2629	3.0237	53.2454	12.1388
1.7500	0.2973	3.5349	0.0000	0.0000	53.2454	12.1388
1.8750	0.2726	3.1860	6.0317	1.3751	59.2770	13.5139
2.0000	0.2500	2.8634	5.2612	1.1995	64.5382	14.7134
2.1250	0.2293	2.5660	8.5385	1.9466	73.0767	16.6600
2.2500	0.2102	2.2927	7.6641	1.7472	80.7407	18.4072
2.3750	0.1928	2.0423	14.7388	3.3601	95.4796	21.7674
2.5000	0.1768	1.8137	11.3081	2.5780	106.7877	24.3454
2.6250	0.1621	1.6058	19.0493	4.3429	125.8370	28.6882
2.7500	0.1487	1.4175	29.7083	6.7729	155.5453	35.4611
2.8750	0.1363	1.2476	45.4843	10.3695	201.0296	45.8306
3.0000	0.1250	1.0949	57.0574	13.0079	258.0870	58.8385
3.1250	0.1146	0.9582	46.5097	10.6032	304.5967	69.4417
3.2500	0.1051	0.8364	46.6806	10.6422	351.2773	80.0839
3.3750	0.0964	0.7282	32.5165	7.4131	383.7938	87.4970
3.5000	0.0884	0.6326	26.3120	5.9986	410.1058	93.4956
3.6250	0.0811	0.5484	12.7054	2.8966	422.8113	96.3922
3.7500	0.0743	0.4744	9.6289	2.1952	432.4401	98.5874
3.8750	0.0682	0.4098	3.5772	0.8155	436.0174	99.4029
4.0000	0.0625	0.3533	0.0000	0.0000	436.0174	99.4029
4.1250	0.0573	0.3043	2.6191	0.5971	438.6365	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	438.6365	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	438.6365	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	438.6365	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C33\_S3

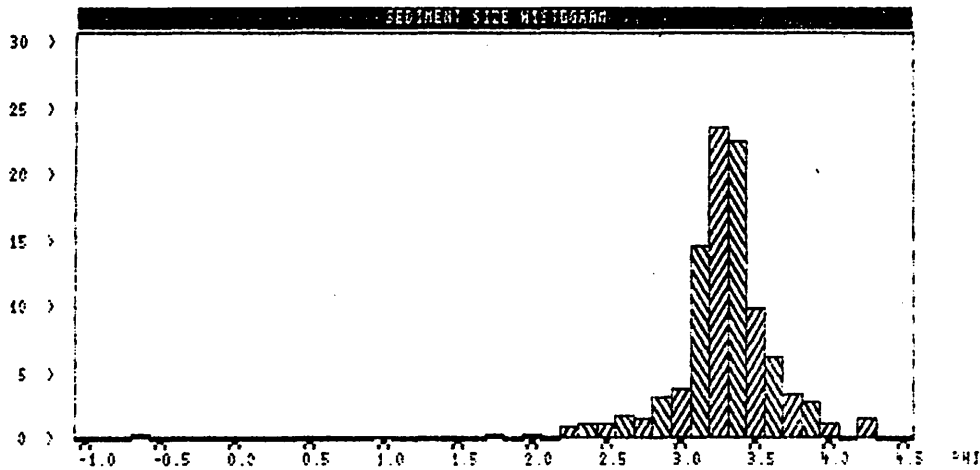
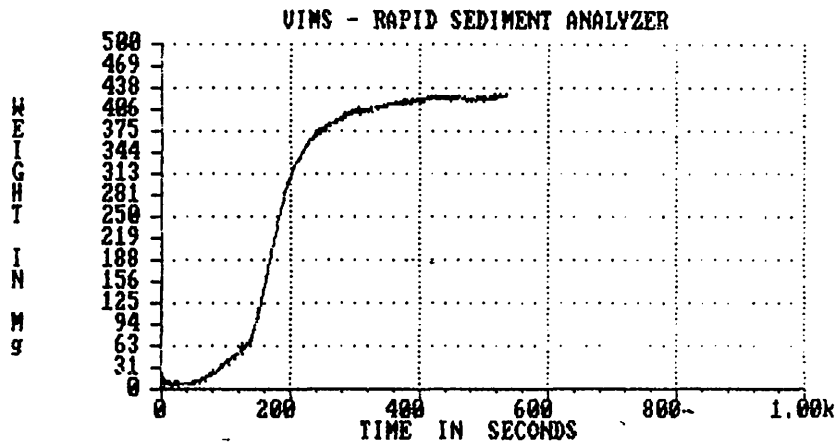
CORE 33 S-3 1.54-1.88M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
687.5366 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
3.2087 0.4153 -3.0093 26.9118 M1 M2 M3 M4 (phi)  
3.2447 3.2359 0.3087 -0.0423 0.2424 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.2354	0.2914	1.2354	0.2914
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2354	0.2914
-0.3750	1.2968	14.5884	0.0000	0.0000	1.2354	0.2914
-0.2500	1.1892	13.6217	0.0000	0.0000	1.2354	0.2914
-0.1250	1.0905	12.6995	0.0000	0.0000	1.2354	0.2914
0.0000	1.0000	11.8208	0.0000	0.0000	1.2354	0.2914
0.1250	0.9170	10.9848	0.0000	0.0000	1.2354	0.2914
0.2500	0.8409	10.1905	0.0000	0.0000	1.2354	0.2914
0.3750	0.7711	9.4370	0.0000	0.0000	1.2354	0.2914
0.5000	0.7071	8.7233	0.0000	0.0000	1.2354	0.2914
0.6250	0.6484	8.0484	0.0000	0.0000	1.2354	0.2914
0.7500	0.5946	7.4111	0.0000	0.0000	1.2354	0.2914
0.8750	0.5453	6.8104	0.0000	0.0000	1.2354	0.2914
1.0000	0.5000	6.2452	0.7282	0.1717	1.9636	0.4631
1.1250	0.4585	5.7143	0.0000	0.0000	1.9636	0.4631
1.2500	0.4204	5.2167	0.0000	0.0000	1.9636	0.4631
1.3750	0.3856	4.7510	0.0000	0.0000	1.9636	0.4631
1.5000	0.3536	4.3163	0.0000	0.0000	1.9636	0.4631
1.6250	0.3242	3.9113	0.0000	0.0000	1.9636	0.4631
1.7500	0.2973	3.5349	1.6173	0.3814	3.5809	0.8445
1.8750	0.2726	3.1860	0.0895	0.0211	3.6704	0.8656
2.0000	0.2500	2.8634	1.7240	0.4066	5.3943	1.2722
2.1250	0.2293	2.5660	0.0000	0.0000	5.3943	1.2722
2.2500	0.2102	2.2927	3.7833	0.8922	9.1776	2.1644
2.3750	0.1928	2.0423	5.1250	1.2087	14.3026	3.3731
2.5000	0.1768	1.8137	5.3506	1.2618	19.6532	4.6349
2.6250	0.1621	1.6058	7.6859	1.8126	27.3390	6.4475
2.7500	0.1487	1.4175	6.2880	1.4829	33.6271	7.9304
2.8750	0.1363	1.2476	13.6604	3.2216	47.2875	11.1520
3.0000	0.1250	1.0949	15.8199	3.7309	63.1074	14.8829
3.1250	0.1146	0.9582	61.2090	14.4352	124.3164	29.3181
3.2500	0.1051	0.8364	98.8243	23.3062	223.1407	52.6244
3.3750	0.0964	0.7282	94.9395	22.3900	318.0803	75.0144
3.5000	0.0884	0.6326	41.9604	9.8957	360.0407	84.9101
3.6250	0.0811	0.5484	26.6485	6.2847	386.6892	91.1948
3.7500	0.0743	0.4744	14.0204	3.3065	400.7096	94.5013
3.8750	0.0682	0.4098	11.6879	2.7564	412.3976	97.2577
4.0000	0.0625	0.3533	4.8203	1.1368	417.2179	98.3945
4.1250	0.0573	0.3043	0.0000	0.0000	417.2179	98.3945
4.2500	0.0526	0.2617	6.8078	1.6055	424.0256	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	424.0256	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	424.0256	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

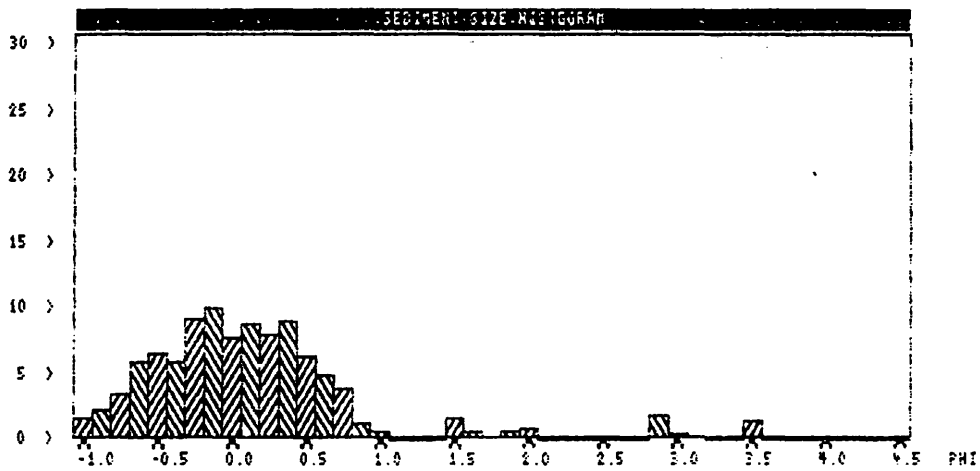
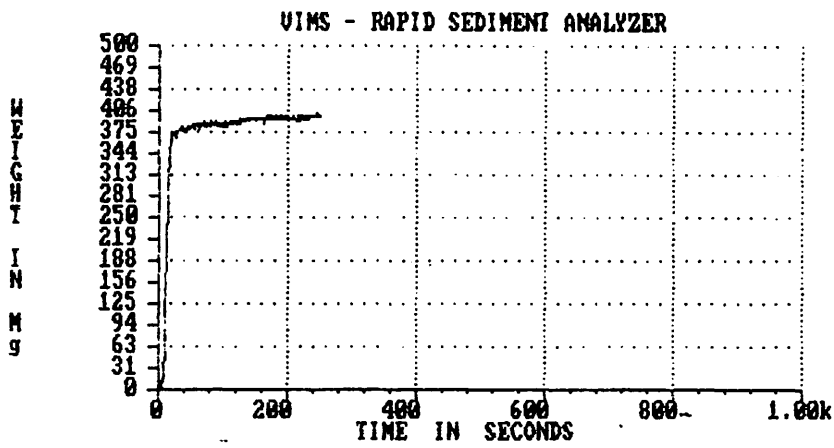


C33\_S5  
 CORE 33 S-5 2.00-2.31M  
 VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 639.3503 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 0.0909 0.7916 2.0398 8.6138 M1 M2 M3 M4 (phi)  
 -0.0191 -0.0238 0.6428 0.1776 1.9736 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	5.8330	1.4814	5.8330	1.4814
-0.8750	1.8340	18.9156	8.3591	2.1229	14.1921	3.6043
-0.7500	1.6818	17.7631	13.7501	3.4921	27.9422	7.0964
-0.6250	1.5422	16.6582	22.7026	5.7657	50.6448	12.8621
-0.5000	1.4142	15.6003	25.2238	6.4060	75.8686	19.2681
-0.3750	1.2968	14.5884	23.1757	5.8859	99.0443	25.1540
-0.2500	1.1892	13.6217	35.2996	8.9649	134.3439	34.1189
-0.1250	1.0905	12.6995	38.4383	9.7621	172.7822	43.8810
0.0000	1.0000	11.8208	29.7454	7.5544	202.5275	51.4353
0.1250	0.9170	10.9848	34.0381	8.6446	236.5657	60.0799
0.2500	0.8409	10.1905	30.5295	7.7535	267.0952	67.8334
0.3750	0.7711	9.4370	34.8983	8.8630	301.9935	76.6964
0.5000	0.7071	8.7233	24.1677	6.1378	326.1611	82.8342
0.6250	0.6484	8.0484	18.9500	4.8127	345.1111	87.6469
0.7500	0.5946	7.4111	14.5540	3.6962	359.6651	91.3431
0.8750	0.5453	6.8104	4.6752	1.1873	364.3403	92.5304
1.0000	0.5000	6.2452	2.0370	0.5173	366.3773	93.0478
1.1250	0.4585	5.7143	0.0000	0.0000	366.3773	93.0478
1.2500	0.4204	5.2167	0.0000	0.0000	366.3773	93.0478
1.3750	0.3856	4.7510	0.0000	0.0000	366.3773	93.0478
1.5000	0.3536	4.3163	5.8063	1.4746	372.1837	94.5224
1.6250	0.3242	3.9113	2.0966	0.5325	374.2802	95.0549
1.7500	0.2973	3.5349	0.3126	0.0794	374.5928	95.1342
1.8750	0.2726	3.1860	1.9561	0.4968	376.5490	95.6310
2.0000	0.2500	2.8634	2.7684	0.7031	379.3174	96.3341
2.1250	0.2293	2.5660	0.0000	0.0000	379.3174	96.3341
2.2500	0.2102	2.2927	0.0000	0.0000	379.3174	96.3341
2.3750	0.1928	2.0423	0.0000	0.0000	379.3174	96.3341
2.5000	0.1768	1.8137	0.0000	0.0000	379.3174	96.3341
2.6250	0.1621	1.6058	0.0000	0.0000	379.3174	96.3341
2.7500	0.1487	1.4175	0.0000	0.0000	379.3174	96.3341
2.8750	0.1363	1.2476	7.1318	1.8112	386.4492	98.1454
3.0000	0.1250	1.0949	1.3722	0.3485	387.8214	98.4939
3.1250	0.1146	0.9582	0.5093	0.1293	388.3307	98.6232
3.2500	0.1051	0.8364	0.0000	0.0000	388.3307	98.6232
3.3750	0.0964	0.7282	0.0000	0.0000	388.3307	98.6232
3.5000	0.0884	0.6326	5.4211	1.3768	393.7518	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	393.7518	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	393.7518	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	393.7518	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	393.7518	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	393.7518	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	393.7518	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	393.7518	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	393.7518	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C33\_S9

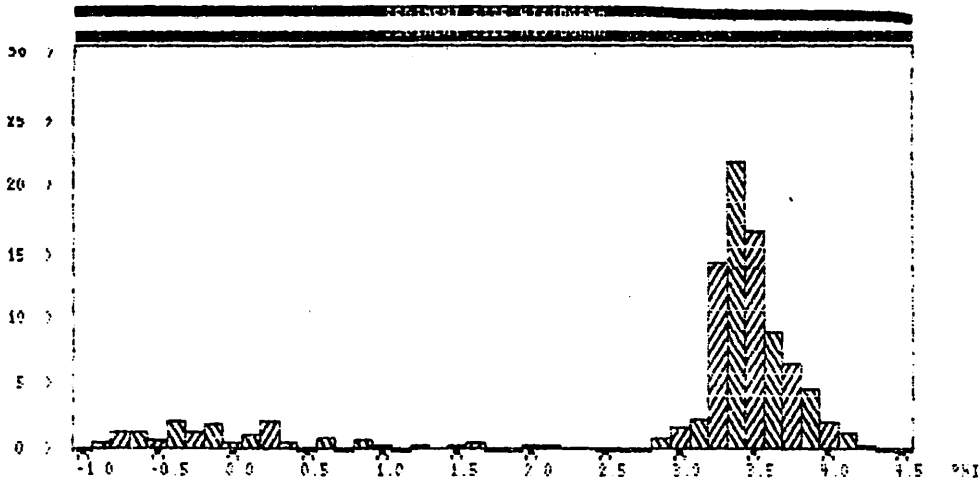
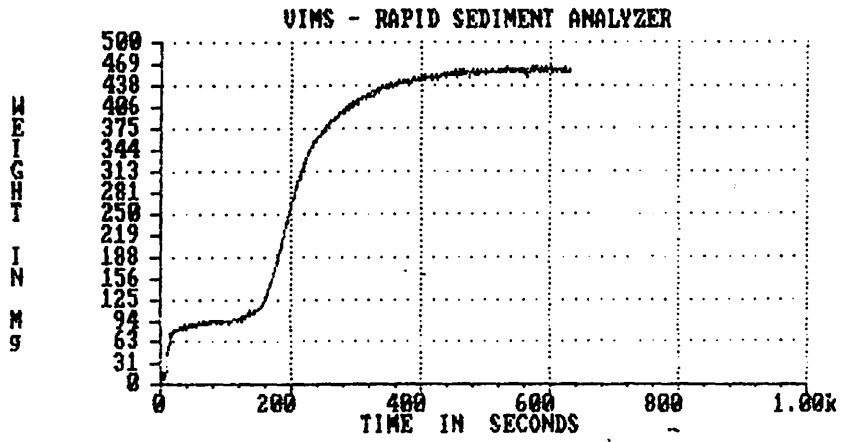
CORE 33 S-9 4.46-4.64M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
734.5477 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.7895 1.3582 -1.6928 4.2614 M1 M2 M3 M4 (phi)  
2.6210 3.3180 1.3175 -0.7685 0.7969 Mz,Md,Sl,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	2.8317	0.6269	2.8317	0.6269
-0.7500	1.6818	17.7631	6.0066	1.3298	8.8383	1.9567
-0.6250	1.5422	16.6582	5.8378	1.2924	14.6761	3.2492
-0.5000	1.4142	15.6003	3.6620	0.8107	18.3381	4.0599
-0.3750	1.2968	14.5884	9.4087	2.0830	27.7467	6.1429
-0.2500	1.1892	13.6217	6.2238	1.3779	33.9705	7.5208
-0.1250	1.0905	12.6995	9.1587	2.0276	43.1292	9.5484
0.0000	1.0000	11.8208	2.9151	0.6454	46.0443	10.1938
0.1250	0.9170	10.9848	5.6786	1.2572	51.7229	11.4510
0.2500	0.8409	10.1905	9.5469	2.1136	61.2698	13.5646
0.3750	0.7711	9.4370	2.6553	0.5879	63.9251	14.1524
0.5000	0.7071	8.7233	0.0000	0.0000	63.9251	14.1524
0.6250	0.6484	8.0484	4.1354	0.9155	68.0605	15.0680
0.7500	0.5946	7.4111	0.0000	0.0000	68.0605	15.0680
0.8750	0.5453	6.8104	3.2203	0.7129	71.2808	15.7809
1.0000	0.5000	6.2452	1.9927	0.4412	73.2735	16.2221
1.1250	0.4585	5.7143	0.0000	0.0000	73.2735	16.2221
1.2500	0.4204	5.2167	1.8816	0.4166	75.1551	16.6387
1.3750	0.3856	4.7510	0.4082	0.0904	75.5634	16.7291
1.5000	0.3536	4.3163	1.3931	0.3084	76.9564	17.0375
1.6250	0.3242	3.9113	2.3008	0.5094	79.2572	17.5468
1.7500	0.2973	3.5349	0.0000	0.0000	79.2572	17.5468
1.8750	0.2726	3.1860	0.0000	0.0000	79.2572	17.5468
2.0000	0.2500	2.8634	1.9669	0.4355	81.2241	17.9823
2.1250	0.2293	2.5660	1.6430	0.3637	82.8671	18.3460
2.2500	0.2102	2.2927	0.8635	0.1912	83.7307	18.5372
2.3750	0.1928	2.0423	1.0708	0.2371	84.8015	18.7743
2.5000	0.1768	1.8137	0.0000	0.0000	84.8015	18.7743
2.6250	0.1621	1.6058	0.0000	0.0000	84.8015	18.7743
2.7500	0.1487	1.4175	0.0000	0.0000	84.8015	18.7743
2.8750	0.1363	1.2476	4.3110	0.9544	89.1125	19.7287
3.0000	0.1250	1.0949	8.2156	1.8189	97.3281	21.5476
3.1250	0.1146	0.9582	10.8649	2.4054	108.1930	23.9530
3.2500	0.1051	0.8364	64.8716	14.3620	173.0646	38.3149
3.3750	0.0964	0.7282	96.9995	21.4748	270.0641	59.7898
3.5000	0.0884	0.6326	74.6908	16.5359	344.7549	76.3257
3.6250	0.0811	0.5484	40.0998	8.8777	384.8547	85.2034
3.7500	0.0743	0.4744	28.5629	6.3236	413.4176	91.5270
3.8750	0.0682	0.4098	20.6432	4.5702	434.0608	96.0972
4.0000	0.0625	0.3533	9.6916	2.1456	443.7525	98.2428
4.1250	0.0573	0.3043	6.5965	1.4604	450.3490	99.7033
4.2500	0.0526	0.2617	1.3404	0.2967	451.6894	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	451.6894	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	451.6894	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C33\_S10

CORE 33 S-10 4.64-4.95M

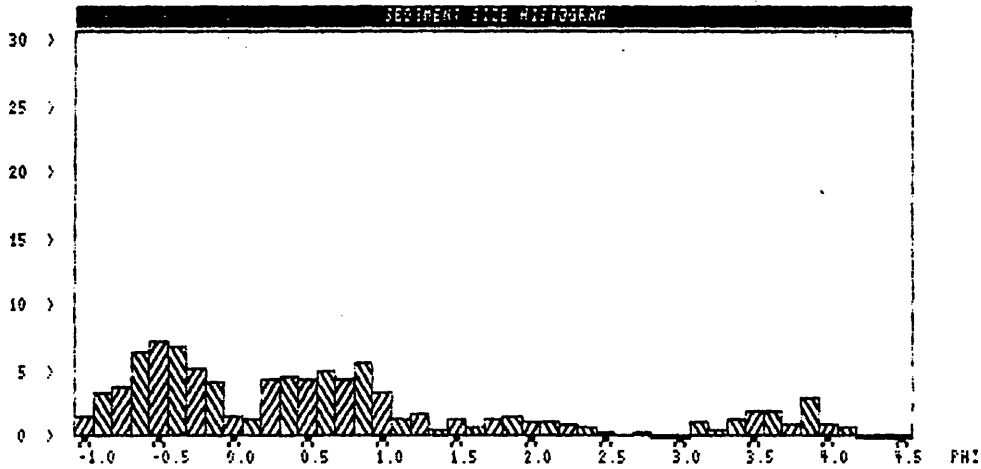
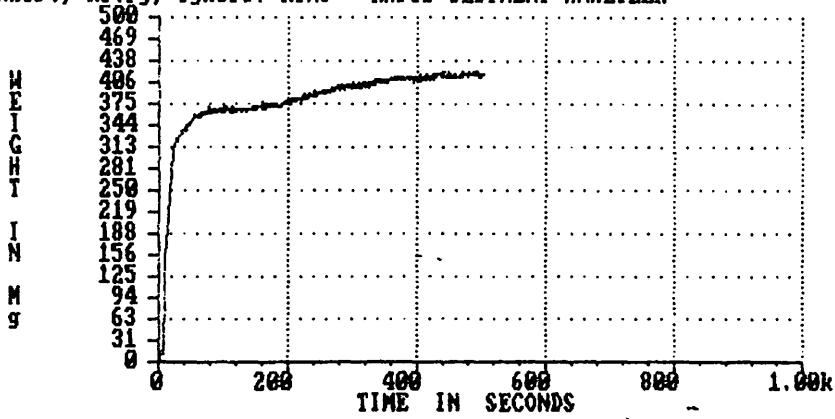
VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
671.8663   Dry Sand Fraction Weight (mg)  
2.65           Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
0.6609   1.3863   1.0323   3.0732   M1 M2 M3 M4 (phi)  
0.6128   0.3656   1.3685   0.3693   1.4106   Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	5.9831	1.4786	5.9831	1.4786
-0.8750	1.8340	18.9156	13.5592	3.3509	19.5423	4.8296
-0.7500	1.6818	17.7631	15.2391	3.7661	34.7814	8.5957
-0.6250	1.5422	16.6582	25.9524	6.4137	60.7339	15.0094
-0.5000	1.4142	15.6003	28.9829	7.1626	89.7168	22.1720
-0.3750	1.2968	14.5884	27.4370	6.7806	117.1538	28.9526
-0.2500	1.1892	13.6217	20.7797	5.1354	137.9335	34.0880
-0.1250	1.0905	12.6995	17.1944	4.2493	155.1279	38.3373
0.0000	1.0000	11.8208	6.3842	1.5777	161.5121	39.9150
0.1250	0.9170	10.9848	5.8100	1.4359	167.3222	41.3509
0.2500	0.8409	10.1905	18.1109	4.4758	185.4330	45.8267
0.3750	0.7711	9.4370	18.2618	4.5131	203.6948	50.3398
0.5000	0.7071	8.7233	18.0941	4.4717	221.7889	54.8114
0.6250	0.6484	8.0484	20.3412	5.0270	242.1301	59.8384
0.7500	0.5946	7.4111	18.1045	4.4742	260.2345	64.3126
0.8750	0.5453	6.8104	22.6719	5.6030	282.9064	69.9156
1.0000	0.5000	6.2452	13.7452	3.3969	296.6516	73.3125
1.1250	0.4585	5.7143	5.2142	1.2886	301.8659	74.6011
1.2500	0.4204	5.2167	7.4687	1.8458	309.3346	76.4469
1.3750	0.3856	4.7510	2.1195	0.5238	311.4541	76.9707
1.5000	0.3536	4.3163	5.2588	1.2996	316.7129	78.2703
1.6250	0.3242	3.9113	3.2288	0.7979	319.9416	79.0683
1.7500	0.2973	3.5349	5.4017	1.3349	325.3433	80.4032
1.8750	0.2726	3.1860	6.7218	1.6612	332.0651	82.0644
2.0000	0.2500	2.8634	4.9447	1.2220	337.0098	83.2864
2.1250	0.2293	2.5660	4.4854	1.1085	341.4952	84.3949
2.2500	0.2102	2.2927	4.2409	1.0481	345.7361	85.4429
2.3750	0.1928	2.0423	2.8918	0.7147	348.6279	86.1576
2.5000	0.1768	1.8137	1.5475	0.3824	350.1754	86.5400
2.6250	0.1621	1.6058	0.8333	0.2059	351.0087	86.7460
2.7500	0.1487	1.4175	1.2421	0.3070	352.2508	87.0529
2.8750	0.1363	1.2476	0.1326	0.0328	352.3834	87.0857
3.0000	0.1250	1.0949	0.0000	0.0000	352.3834	87.0857
3.1250	0.1146	0.9582	4.8816	1.2064	357.2650	88.2921
3.2500	0.1051	0.8364	2.4037	0.5940	359.6687	88.8861
3.3750	0.0964	0.7282	5.8769	1.4524	365.5456	90.3385
3.5000	0.0884	0.6326	7.6540	1.8916	373.1996	92.2301
3.6250	0.0811	0.5484	8.2043	2.0276	381.4039	94.2576
3.7500	0.0743	0.4744	3.6609	0.9047	385.0648	95.1624
3.8750	0.0682	0.4098	12.3996	3.0644	397.4644	98.2267
4.0000	0.0625	0.3533	3.7107	0.9170	401.1752	99.1438
4.1250	0.0573	0.3043	3.4646	0.8562	404.6398	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	404.6398	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	404.6398	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	404.6398	100.0000

\* - fall velocity of natural grains in fresh water at 20cC

No paper error writing device PRN  
Abort, Retry, Ignore?  
Abort, Retry, Ignore? RIMS - RAPID SEDIMENT ANALYZER



C33\_S12

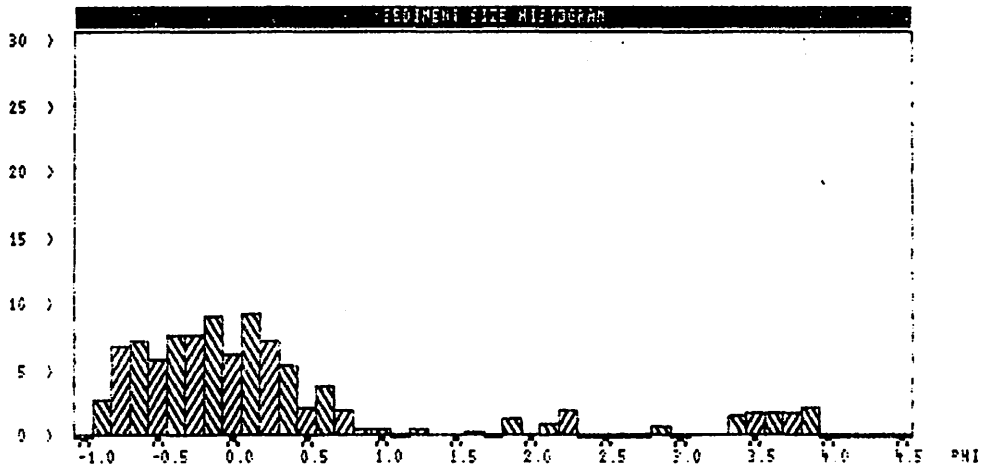
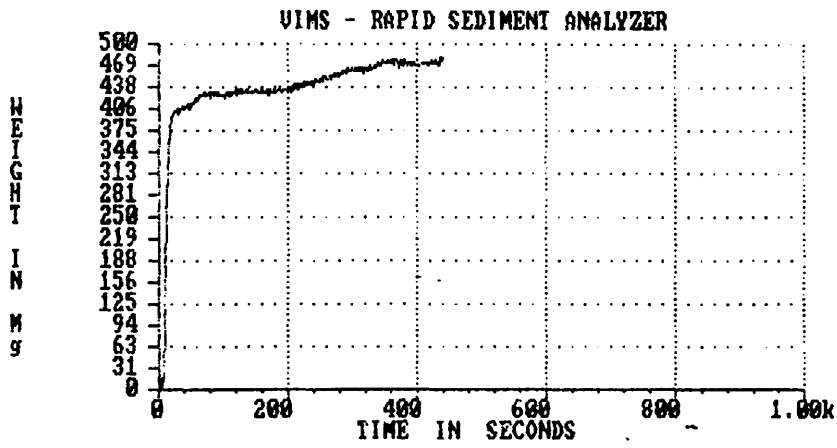
CORE 33 S-12 5.11-5.37M

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
758.8367    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.3138    1.2519    1.7055    4.8591    M1 M2 M3 M4 (phi)  
0.0783    -0.0617    1.0595    0.4578    3.2152    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	13.0416	2.7547	13.0416	2.7547
-0.7500	1.6818	17.7631	32.0242	6.7642	45.0659	9.5188
-0.6250	1.5422	16.6582	34.5320	7.2939	79.5978	16.8127
-0.5000	1.4142	15.6003	27.2844	5.7630	106.8823	22.5758
-0.3750	1.2968	14.5884	35.9359	7.5904	142.8182	30.1662
-0.2500	1.1892	13.6217	36.1819	7.6424	179.0001	37.8085
-0.1250	1.0905	12.6995	42.9051	9.0625	221.9052	46.8710
0.0000	1.0000	11.8208	29.2730	6.1831	251.1782	53.0541
0.1250	0.9170	10.9848	44.2108	9.3382	295.3890	62.3923
0.2500	0.8409	10.1905	34.4000	7.2660	329.7890	69.6583
0.3750	0.7711	9.4370	25.9807	5.4877	355.7697	75.1460
0.5000	0.7071	8.7233	10.7128	2.2628	366.4825	77.4087
0.6250	0.6484	8.0484	18.0166	3.8055	384.4991	81.2142
0.7500	0.5946	7.4111	9.7014	2.0491	394.2005	83.2633
0.8750	0.5453	6.8104	2.4150	0.5101	396.6154	83.7734
1.0000	0.5000	6.2452	2.2154	0.4679	398.8308	84.2414
1.1250	0.4585	5.7143	0.0000	0.0000	398.8308	84.2414
1.2500	0.4204	5.2167	2.5243	0.5332	401.3551	84.7745
1.3750	0.3856	4.7510	0.7146	0.1509	402.0697	84.9255
1.5000	0.3536	4.3163	0.4638	0.0980	402.5335	85.0234
1.6250	0.3242	3.9113	1.6940	0.3578	404.2274	85.3812
1.7500	0.2973	3.5349	0.0000	0.0000	404.2274	85.3812
1.8750	0.2726	3.1860	6.2325	1.3164	410.4599	86.6977
2.0000	0.2500	2.8634	0.5636	0.1190	411.0235	86.8167
2.1250	0.2293	2.5660	4.6907	0.9908	415.7141	87.8075
2.2500	0.2102	2.2927	9.0055	1.9021	424.7196	89.7096
2.3750	0.1928	2.0423	0.2303	0.0486	424.9499	89.7583
2.5000	0.1768	1.8137	0.0000	0.0000	424.9499	89.7583
2.6250	0.1621	1.6058	0.0000	0.0000	424.9499	89.7583
2.7500	0.1487	1.4175	0.0000	0.0000	424.9499	89.7583
2.8750	0.1363	1.2476	3.7239	0.7866	428.6738	90.5448
3.0000	0.1250	1.0949	0.0000	0.0000	428.6738	90.5448
3.1250	0.1146	0.9582	0.3553	0.0750	429.0291	90.6199
3.2500	0.1051	0.8364	0.4537	0.0958	429.4829	90.7157
3.3750	0.0964	0.7282	7.5292	1.5903	437.0120	92.3060
3.5000	0.0884	0.6326	8.5369	1.8032	445.5490	94.1092
3.6250	0.0811	0.5484	8.5702	1.8102	454.1192	95.9194
3.7500	0.0743	0.4744	8.5685	1.8099	462.6877	97.7293
3.8750	0.0682	0.4098	10.7505	2.2707	473.4383	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	473.4383	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	473.4383	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	473.4383	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	473.4383	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	473.4383	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

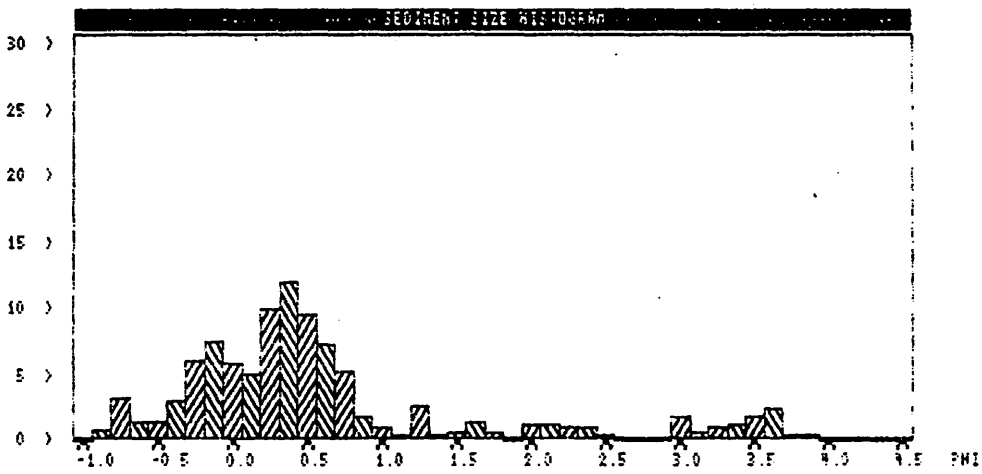
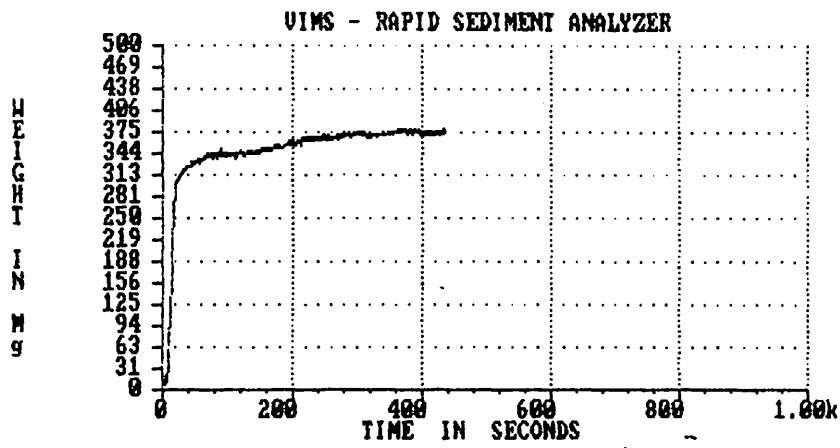


C33\_S14  
 CORE 33 S-14 5.43-5.62M  
 VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
 599.3909    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 0.5937    1.0852    1.4777    4.5042    M1 M2 M3 M4 (phi)  
 0.5210    0.3182    1.0405    0.4347    2.2632    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.1924	0.0526	0.1924	0.0526
-0.8750	1.8340	18.9156	2.8712	0.7843	3.0637	0.8368
-0.7500	1.6818	17.7631	11.3672	3.1050	14.4309	3.9418
-0.6250	1.5422	16.6582	4.7971	1.3103	19.2280	5.2522
-0.5000	1.4142	15.6003	4.8307	1.3195	24.0587	6.5717
-0.3750	1.2968	14.5884	10.6161	2.8998	34.6748	9.4715
-0.2500	1.1892	13.6217	22.3533	6.1059	57.0281	15.5774
-0.1250	1.0905	12.6995	27.0281	7.3828	84.0562	22.9602
0.0000	1.0000	11.8208	21.0232	5.7425	105.0794	28.7027
0.1250	0.9170	10.9848	18.1856	4.9674	123.2650	33.6701
0.2500	0.8409	10.1905	36.1052	9.8622	159.3702	43.5324
0.3750	0.7711	9.4370	43.4076	11.8569	202.7778	55.3893
0.5000	0.7071	8.7233	34.9606	9.5496	237.7384	64.9388
0.6250	0.6484	8.0484	26.3043	7.1851	264.0427	72.1239
0.7500	0.5946	7.4111	19.2495	5.2581	283.2922	77.3820
0.8750	0.5453	6.8104	6.7687	1.8489	290.0609	79.2309
1.0000	0.5000	6.2452	3.3326	0.9103	293.3935	80.1412
1.1250	0.4585	5.7143	1.2156	0.3320	294.6091	80.4732
1.2500	0.4204	5.2167	9.2666	2.5312	303.8757	83.0044
1.3750	0.3856	4.7510	1.6089	0.4395	305.4845	83.4439
1.5000	0.3536	4.3163	2.2560	0.6162	307.7406	84.0601
1.6250	0.3242	3.9113	4.9877	1.3624	312.7282	85.4225
1.7500	0.2973	3.5349	2.0504	0.5601	314.7787	85.9826
1.8750	0.2726	3.1860	0.0000	0.0000	314.7787	85.9826
2.0000	0.2500	2.8634	4.0073	1.0946	318.7860	87.0772
2.1250	0.2293	2.5660	4.0413	1.1039	322.8273	88.1811
2.2500	0.2102	2.2927	3.5673	0.9744	326.3946	89.1555
2.3750	0.1928	2.0423	3.4394	0.9395	329.8340	90.0950
2.5000	0.1768	1.8137	1.6474	0.4500	331.4814	90.5450
2.6250	0.1621	1.6058	0.0000	0.0000	331.4814	90.5450
2.7500	0.1487	1.4175	0.0000	0.0000	331.4814	90.5450
2.8750	0.1363	1.2476	0.0000	0.0000	331.4814	90.5450
3.0000	0.1250	1.0949	6.6291	1.8108	338.1105	92.3557
3.1250	0.1146	0.9582	2.3237	0.6347	340.4342	92.9905
3.2500	0.1051	0.8364	3.5486	0.9693	343.9828	93.9598
3.3750	0.0964	0.7282	4.2356	1.1570	348.2184	95.1167
3.5000	0.0884	0.6326	6.3466	1.7336	354.5650	96.8503
3.6250	0.0811	0.5484	8.7330	2.3854	363.2980	99.2357
3.7500	0.0743	0.4744	1.6552	0.4521	364.9532	99.6879
3.8750	0.0682	0.4098	1.1426	0.3121	366.0959	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	366.0959	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	366.0959	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	366.0959	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	366.0959	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	366.0959	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C33\_S16

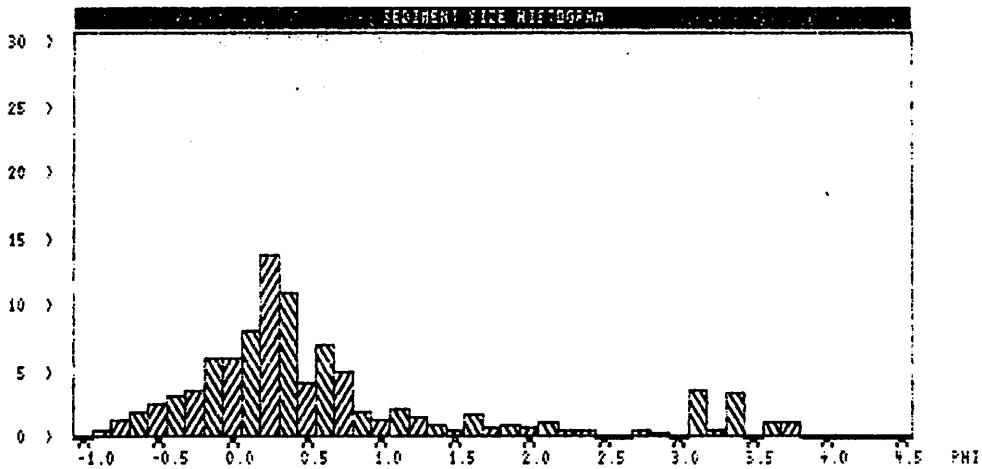
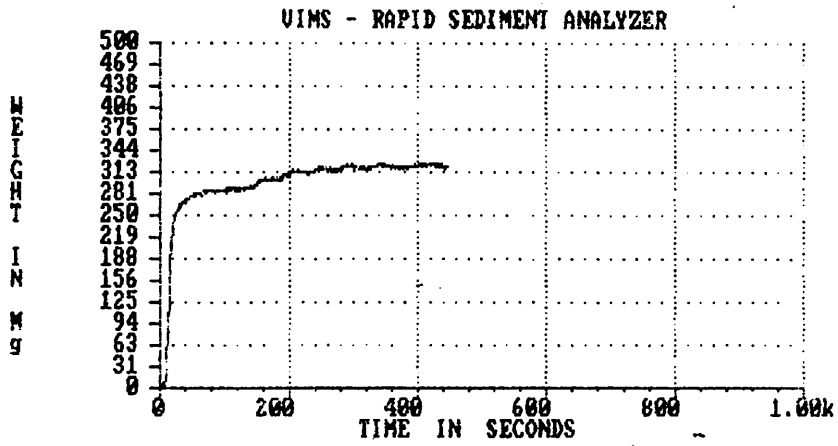
CORE 33 S-16 5.75-5.92M

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
512.0287    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
0.6357    1.0883    1.4107    4.1601    M1 M2 M3 M4 (phi)  
0.5596    0.2841    1.0276    0.5108    1.9414    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.5549	0.4906	1.5549	0.4906
-0.7500	1.6818	17.7631	4.4872	1.4159	6.0420	1.9066
-0.6250	1.5422	16.6582	6.0230	1.9005	12.0650	3.8071
-0.5000	1.4142	15.6003	7.9239	2.5004	19.9889	6.3075
-0.3750	1.2968	14.5884	10.4286	3.2907	30.4175	9.5982
-0.2500	1.1892	13.6217	11.6171	3.6657	42.0346	13.2639
-0.1250	1.0905	12.6995	19.1801	6.0522	61.2146	19.3162
0.0000	1.0000	11.8208	19.2316	6.0685	80.4462	25.3847
0.1250	0.9170	10.9848	25.2627	7.9716	105.7090	33.3563
0.2500	0.8409	10.1905	43.3469	13.6780	149.0559	47.0343
0.3750	0.7711	9.4370	34.4373	10.8666	183.4932	57.9009
0.5000	0.7071	8.7233	13.4701	4.2505	196.9632	62.1514
0.6250	0.6484	8.0484	22.0645	6.9624	219.0277	69.1138
0.7500	0.5946	7.4111	15.8788	5.0105	234.9065	74.1243
0.8750	0.5453	6.8104	6.0031	1.8943	240.9096	76.0186
1.0000	0.5000	6.2452	4.5300	1.4294	245.4397	77.4480
1.1250	0.4585	5.7143	6.8136	2.1500	252.2533	79.5980
1.2500	0.4204	5.2167	5.0108	1.5811	257.2640	81.1792
1.3750	0.3856	4.7510	3.3378	1.0532	260.6019	82.2324
1.5000	0.3536	4.3163	1.8013	0.5684	262.4031	82.8008
1.6250	0.3242	3.9113	5.3804	1.6978	267.7835	84.4986
1.7500	0.2973	3.5349	2.1103	0.6659	269.8938	85.1645
1.8750	0.2726	3.1860	2.8553	0.9010	272.7491	86.0655
2.0000	0.2500	2.8634	2.1764	0.6867	274.9255	86.7522
2.1250	0.2293	2.5660	3.9702	1.2528	278.8957	88.0050
2.2500	0.2102	2.2927	1.9682	0.6211	280.8639	88.6261
2.3750	0.1928	2.0423	1.7790	0.5614	282.6429	89.1874
2.5000	0.1768	1.8137	0.0102	0.0032	282.6532	89.1907
2.6250	0.1621	1.6058	0.0000	0.0000	282.6532	89.1907
2.7500	0.1487	1.4175	1.6173	0.5103	284.2705	89.7010
2.8750	0.1363	1.2476	0.9755	0.3078	285.2460	90.0088
3.0000	0.1250	1.0949	0.0000	0.0000	285.2460	90.0088
3.1250	0.1146	0.9582	11.6413	3.6734	296.8873	93.6822
3.2500	0.1051	0.8364	1.8909	0.5967	298.7782	94.2789
3.3750	0.0964	0.7282	10.7372	3.3881	309.5154	97.6670
3.5000	0.0884	0.6326	0.0000	0.0000	309.5154	97.6670
3.6250	0.0811	0.5484	3.4863	1.1001	313.0017	98.7671
3.7500	0.0743	0.4744	3.8573	1.2172	316.8590	99.9842
3.8750	0.0682	0.4098	0.0499	0.0158	316.9089	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	316.9089	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	316.9089	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	316.9089	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	316.9089	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	316.9089	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C33\_S17

CORE 33 S-17 5.92-6.19M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

678.5262 Dry Sand Fraction Weight (mg)

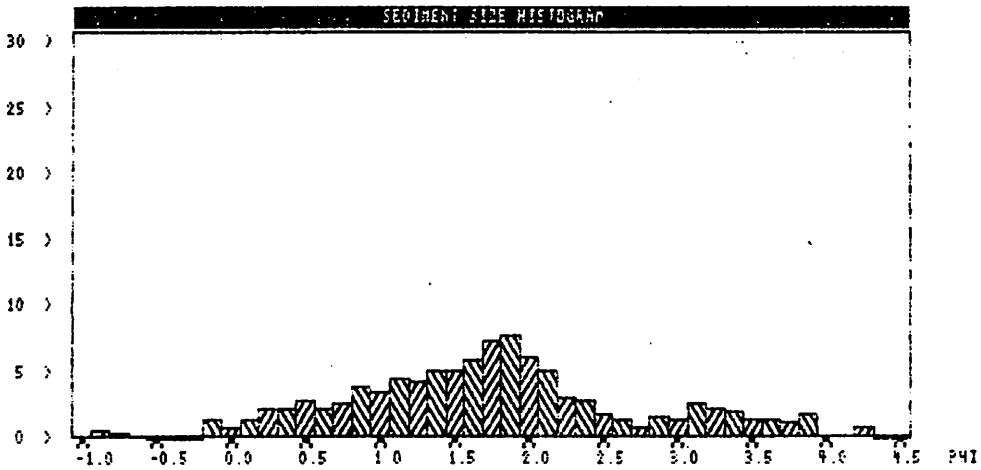
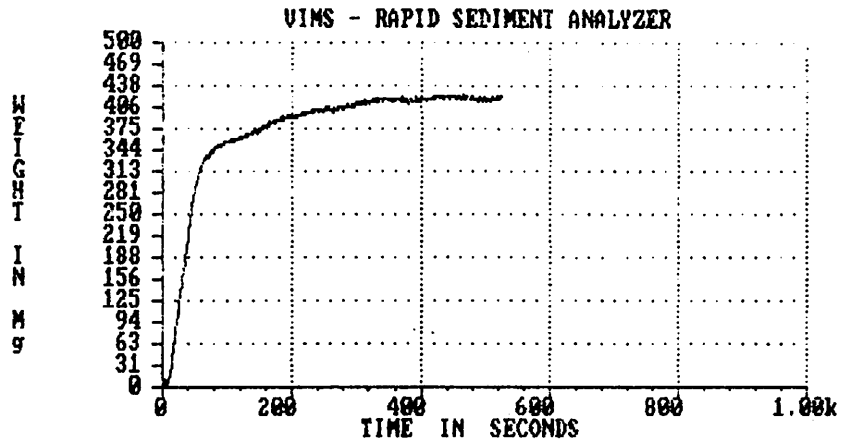
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$

1.6735 0.9994 0.1992 2.9799 M1 M2 M3 M4 (phi)

1.7107 1.6526 1.0292 0.0949 0.8025 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.0448	0.2485	1.0448	0.2485
-0.8750	1.8340	18.9156	2.5949	0.6172	3.6398	0.8658
-0.7500	1.6818	17.7631	1.6702	0.3973	5.3100	1.2631
-0.6250	1.5422	16.6582	0.3689	0.0878	5.6789	1.3508
-0.5000	1.4142	15.6003	0.0000	0.0000	5.6789	1.3508
-0.3750	1.2968	14.5884	0.0000	0.0000	5.6789	1.3508
-0.2500	1.1892	13.6217	0.0000	0.0000	5.6789	1.3508
-0.1250	1.0905	12.6995	5.9354	1.4118	11.6143	2.7626
0.0000	1.0000	11.8208	3.0499	0.7255	14.6642	3.4881
0.1250	0.9170	10.9848	5.9133	1.4066	20.5775	4.8947
0.2500	0.8409	10.1905	9.2822	2.2079	29.8596	7.1026
0.3750	0.7711	9.4370	9.3757	2.2302	39.2353	9.3327
0.5000	0.7071	8.7233	11.3603	2.7022	50.5956	12.0350
0.6250	0.6484	8.0484	8.9992	2.1406	59.5948	14.1756
0.7500	0.5946	7.4111	11.0670	2.6325	70.6619	16.8080
0.8750	0.5453	6.8104	15.8054	3.7596	86.4672	20.5676
1.0000	0.5000	6.2452	14.1275	3.3604	100.5947	23.9280
1.1250	0.4585	5.7143	18.7118	4.4509	119.3066	28.3789
1.2500	0.4204	5.2167	17.8367	4.2427	137.1433	32.6217
1.3750	0.3856	4.7510	20.9533	4.9841	158.0966	37.6057
1.5000	0.3536	4.3163	21.0906	5.0167	179.1871	42.6225
1.6250	0.3242	3.9113	24.4014	5.8043	203.5886	48.4267
1.7500	0.2973	3.5349	30.0064	7.1375	233.5949	55.5642
1.8750	0.2726	3.1860	31.8258	7.5703	265.4207	63.1345
2.0000	0.2500	2.8634	25.1331	5.9783	290.5538	69.1128
2.1250	0.2293	2.5660	21.4231	5.0958	311.9769	74.2086
2.2500	0.2102	2.2927	12.4579	2.9633	324.4348	77.1719
2.3750	0.1928	2.0423	11.3871	2.7086	335.8219	79.8805
2.5000	0.1768	1.8137	7.2307	1.7199	343.0527	81.6004
2.6250	0.1621	1.6058	5.9376	1.4124	348.9903	83.0128
2.7500	0.1487	1.4175	3.1657	0.7530	352.1560	83.7658
2.8750	0.1363	1.2476	6.8430	1.6277	358.9990	85.3935
3.0000	0.1250	1.0949	5.4115	1.2872	364.4106	86.6807
3.1250	0.1146	0.9582	10.8213	2.5740	375.2319	89.2548
3.2500	0.1051	0.8364	9.1886	2.1857	384.4205	91.4404
3.3750	0.0964	0.7282	8.1907	1.9483	392.6112	93.3887
3.5000	0.0884	0.6326	5.4058	1.2859	398.0170	94.6746
3.6250	0.0811	0.5484	5.5698	1.3249	403.5868	95.9994
3.7500	0.0743	0.4744	4.7834	1.1378	408.3703	97.1372
3.8750	0.0682	0.4098	7.3623	1.7512	415.7325	98.8885
4.0000	0.0625	0.3533	0.7822	0.1861	416.5148	99.0745
4.1250	0.0573	0.3043	0.8613	0.2049	417.3761	99.2794
4.2500	0.0526	0.2617	3.0294	0.7206	420.4055	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	420.4055	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	420.4055	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S1

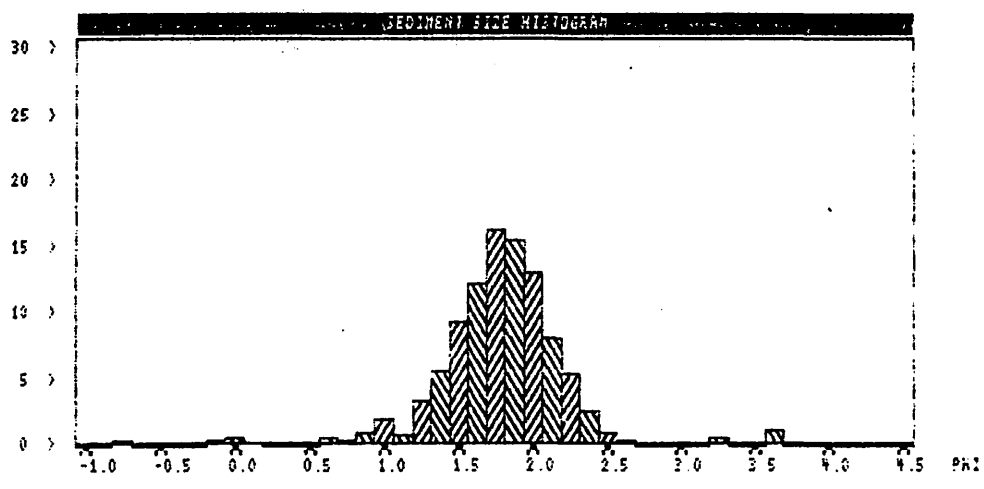
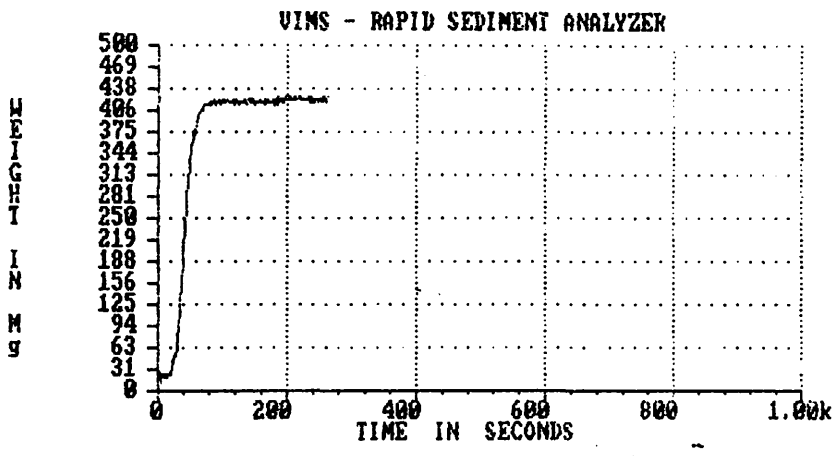
CORE 34 S-1 0-1.71M

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
680.0932   Dry Sand Fraction Weight (mg)  
2.65        Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
1.7044    0.4722   -0.6037   9.7196   M1 M2 M3 M4 (phi)  
1.7197    1.7282   0.3644   -0.1012   0.4056   Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.4552	0.3570	1.4552	0.3570
-0.6250	1.5422	16.6582	0.1816	0.0445	1.6368	0.4015
-0.5000	1.4142	15.6003	0.0000	0.0000	1.6368	0.4015
-0.3750	1.2968	14.5884	0.0000	0.0000	1.6368	0.4015
-0.2500	1.1892	13.6217	0.0000	0.0000	1.6368	0.4015
-0.1250	1.0905	12.6995	1.7657	0.4331	3.4025	0.8346
0.0000	1.0000	11.8208	2.3350	0.5728	5.7375	1.4074
0.1250	0.9170	10.9848	0.7933	0.1946	6.5308	1.6020
0.2500	0.8409	10.1905	0.0612	0.0150	6.5920	1.6170
0.3750	0.7711	9.4370	0.0000	0.0000	6.5920	1.6170
0.5000	0.7071	8.7233	0.0000	0.0000	6.5920	1.6170
0.6250	0.6484	8.0484	2.2859	0.5607	8.8779	2.1777
0.7500	0.5946	7.4111	1.1276	0.2766	10.0055	2.4543
0.8750	0.5453	6.8104	4.3082	1.0568	14.3137	3.5111
1.0000	0.5000	6.2452	8.4533	2.0736	22.7670	5.5847
1.1250	0.4585	5.7143	3.4658	0.8501	26.2328	6.4348
1.2500	0.4204	5.2167	13.6549	3.3495	39.8876	9.7844
1.3750	0.3856	4.7510	22.6306	5.5513	62.5183	15.3356
1.5000	0.3536	4.3163	37.5089	9.2009	100.0272	24.5365
1.6250	0.3242	3.9113	49.5670	12.1587	149.5942	36.6952
1.7500	0.2973	3.5349	65.7194	16.1208	215.3136	52.8160
1.8750	0.2726	3.1860	62.6474	15.3673	277.9610	68.1833
2.0000	0.2500	2.8634	52.1383	12.7894	330.0993	80.9727
2.1250	0.2293	2.5660	32.8009	8.0460	362.9002	89.0187
2.2500	0.2102	2.2927	22.1168	5.4252	385.0170	94.4439
2.3750	0.1928	2.0423	10.8773	2.6682	395.8943	97.1121
2.5000	0.1768	1.8137	3.9778	0.9757	399.8721	98.0879
2.6250	0.1621	1.6058	1.1643	0.2856	401.0364	98.3735
2.7500	0.1487	1.4175	0.0000	0.0000	401.0364	98.3735
2.8750	0.1363	1.2476	0.0000	0.0000	401.0364	98.3735
3.0000	0.1250	1.0949	0.1578	0.0387	401.1942	98.4122
3.1250	0.1146	0.9582	0.0000	0.0000	401.1942	98.4122
3.2500	0.1051	0.8364	2.0618	0.5058	403.2560	98.9179
3.3750	0.0964	0.7282	0.0000	0.0000	403.2560	98.9179
3.5000	0.0884	0.6326	0.0000	0.0000	403.2560	98.9179
3.6250	0.0811	0.5484	4.4112	1.0821	407.6672	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	407.6672	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	407.6672	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	407.6672	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	407.6672	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	407.6672	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	407.6672	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	407.6672	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C34\_S2

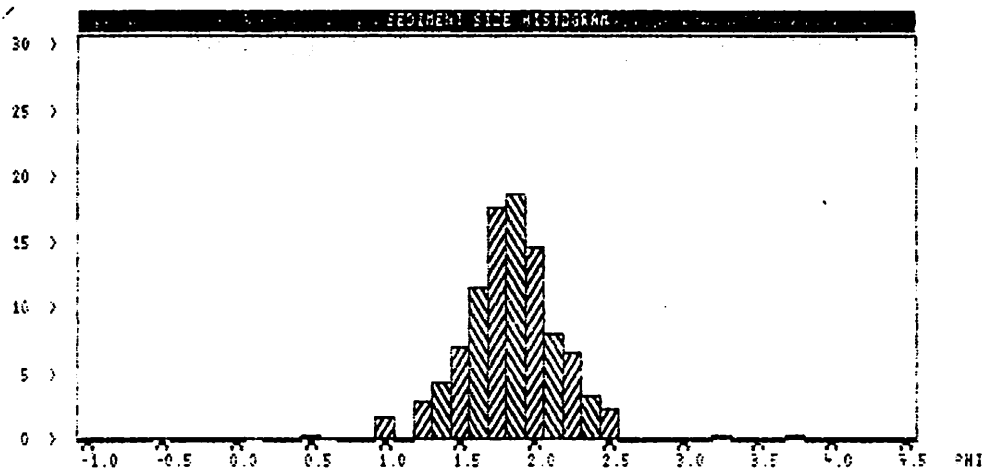
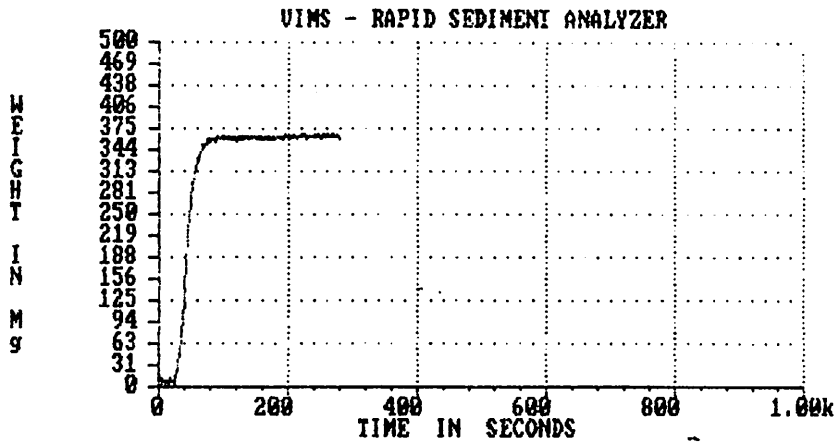
CORE 34 S-2 1.71-2.2M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
584.1123 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.7779 0.3647 0.0733 9.7356 M1 M2 M3 M4 (phi)  
1.7823 1.7790 0.3128 0.0003 0.3365 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.5550	0.1542	0.5550	0.1542
-0.3750	1.2968	14.5884	0.0000	0.0000	0.5550	0.1542
-0.2500	1.1892	13.6217	0.0000	0.0000	0.5550	0.1542
-0.1250	1.0905	12.6995	0.0000	0.0000	0.5550	0.1542
0.0000	1.0000	11.8208	0.0000	0.0000	0.5550	0.1542
0.1250	0.9170	10.9848	0.4484	0.1246	1.0034	0.2788
0.2500	0.8409	10.1905	0.0000	0.0000	1.0034	0.2788
0.3750	0.7711	9.4370	0.0000	0.0000	1.0034	0.2788
0.5000	0.7071	8.7233	0.9720	0.2700	1.9754	0.5488
0.6250	0.6484	8.0484	0.3516	0.0977	2.3270	0.6465
0.7500	0.5946	7.4111	0.0000	0.0000	2.3270	0.6465
0.8750	0.5453	6.8104	0.0000	0.0000	2.3270	0.6465
1.0000	0.5000	6.2452	6.5861	1.8297	8.9131	2.4761
1.1250	0.4585	5.7143	0.0000	0.0000	8.9131	2.4761
1.2500	0.4204	5.2167	10.8262	3.0076	19.7393	5.4837
1.3750	0.3856	4.7510	15.6983	4.3611	35.4376	9.8448
1.5000	0.3536	4.3163	24.9899	6.9424	60.4275	16.7872
1.6250	0.3242	3.9113	41.1933	11.4438	101.6209	28.2310
1.7500	0.2973	3.5349	62.8531	17.4611	164.4739	45.6921
1.8750	0.2726	3.1860	66.8767	18.5788	231.3506	64.2709
2.0000	0.2500	2.8634	51.9431	14.4302	283.2937	78.7011
2.1250	0.2293	2.5660	29.0502	8.0704	312.3439	86.7715
2.2500	0.2102	2.2927	23.6890	6.5810	336.0329	93.3525
2.3750	0.1928	2.0423	12.2160	3.3937	348.2490	96.7462
2.5000	0.1768	1.8137	8.4508	2.3477	356.6998	99.0939
2.6250	0.1621	1.6058	0.0000	0.0000	356.6998	99.0939
2.7500	0.1487	1.4175	0.0000	0.0000	356.6998	99.0939
2.8750	0.1363	1.2476	0.0000	0.0000	356.6998	99.0939
3.0000	0.1250	1.0949	0.0000	0.0000	356.6998	99.0939
3.1250	0.1146	0.9582	0.0890	0.0247	356.7887	99.1186
3.2500	0.1051	0.8364	1.5106	0.4196	358.2993	99.5383
3.3750	0.0964	0.7282	0.0000	0.0000	358.2993	99.5383
3.5000	0.0884	0.6326	0.0000	0.0000	358.2993	99.5383
3.6250	0.0811	0.5484	0.0000	0.0000	358.2993	99.5383
3.7500	0.0743	0.4744	1.6621	0.4617	359.9614	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	359.9614	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	359.9614	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	359.9614	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	359.9614	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	359.9614	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	359.9614	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S3

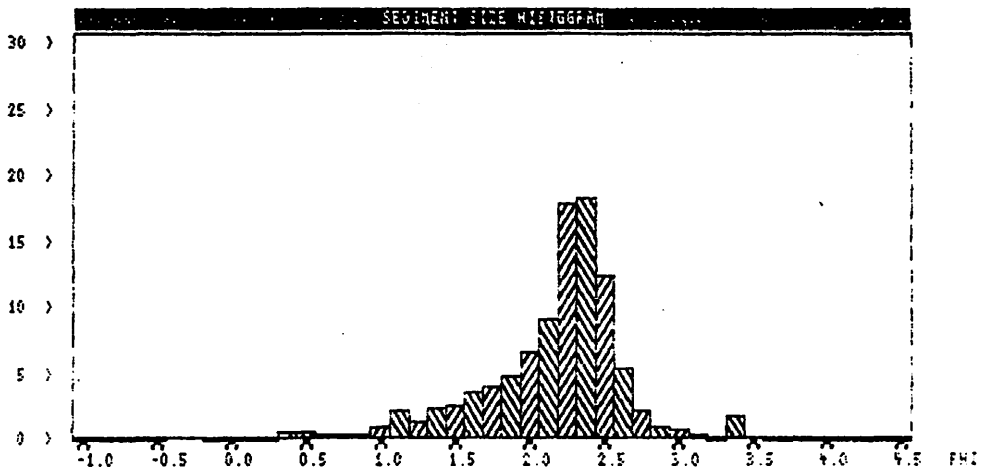
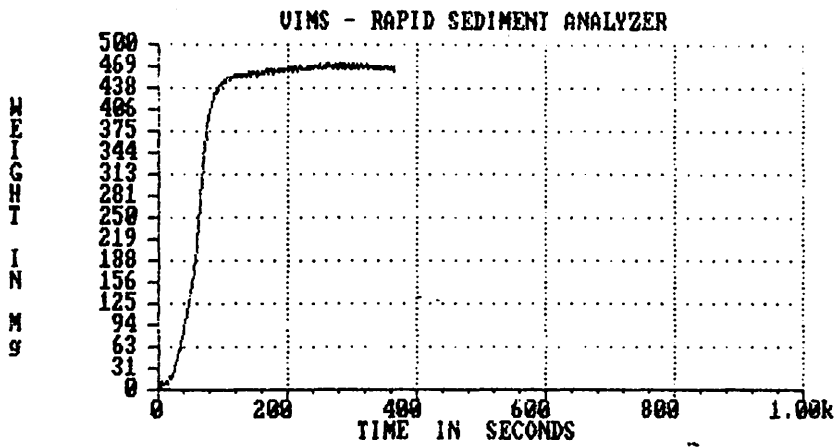
CORE 34 S-3 2.20-2.47M

VA BEACH

0.0 0.0 0.00 Lat Lgn Depth(m) Operator: CF  
741.2076 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$   
2.0856 0.5092 -1.1256 5.9688 M1 M2 M3 M4 (phi)  
2.0962 2.1957 0.4493 -0.3684 0.4144 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.0382	0.2256	1.0382	0.2256
-0.2500	1.1892	13.6217	0.4942	0.1074	1.5324	0.3330
-0.1250	1.0905	12.6995	0.0000	0.0000	1.5324	0.3330
0.0000	1.0000	11.8208	0.0000	0.0000	1.5324	0.3330
0.1250	0.9170	10.9848	0.0000	0.0000	1.5324	0.3330
0.2500	0.8409	10.1905	0.0000	0.0000	1.5324	0.3330
0.3750	0.7711	9.4370	2.7500	0.5975	4.2824	0.9305
0.5000	0.7071	8.7233	3.0107	0.6542	7.2931	1.5847
0.6250	0.6484	8.0484	1.2876	0.2798	8.5807	1.8644
0.7500	0.5946	7.4111	1.6459	0.3576	10.2267	2.2221
0.8750	0.5453	6.8104	1.8258	0.3967	12.0525	2.6188
1.0000	0.5000	6.2452	4.0941	0.8896	16.1466	3.5083
1.1250	0.4585	5.7143	9.6705	2.1012	25.8170	5.6095
1.2500	0.4204	5.2167	6.7093	1.4578	32.5264	7.0673
1.3750	0.3856	4.7510	11.2908	2.4533	43.8171	9.5206
1.5000	0.3536	4.3163	11.6914	2.5403	55.5085	12.0609
1.6250	0.3242	3.9113	16.4444	3.5731	71.9529	15.6340
1.7500	0.2973	3.5349	18.1423	3.9420	90.0953	19.5759
1.8750	0.2726	3.1860	21.7554	4.7270	111.8507	24.3030
2.0000	0.2500	2.8634	30.1517	6.5514	142.0024	30.8544
2.1250	0.2293	2.5660	41.8098	9.0845	183.8122	39.9388
2.2500	0.2102	2.2927	81.9166	17.7989	265.7288	57.7377
2.3750	0.1928	2.0423	83.8936	18.2284	349.6224	75.9661
2.5000	0.1768	1.8137	56.7525	12.3312	406.3748	88.2973
2.6250	0.1621	1.6058	24.5493	5.3341	430.9241	93.6314
2.7500	0.1487	1.4175	10.3475	2.2483	441.2716	95.8797
2.8750	0.1363	1.2476	4.9044	1.0656	446.1760	96.9453
3.0000	0.1250	1.0949	3.9738	0.8634	450.1498	97.8088
3.1250	0.1146	0.9582	1.4515	0.3154	451.6013	98.1241
3.2500	0.1051	0.8364	0.0000	0.0000	451.6013	98.1241
3.3750	0.0964	0.7282	7.8880	1.7139	459.4893	99.8381
3.5000	0.0884	0.6326	0.7453	0.1619	460.2346	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	460.2346	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	460.2346	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	460.2346	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	460.2346	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	460.2346	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	460.2346	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	460.2346	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	460.2346	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C34\_S4

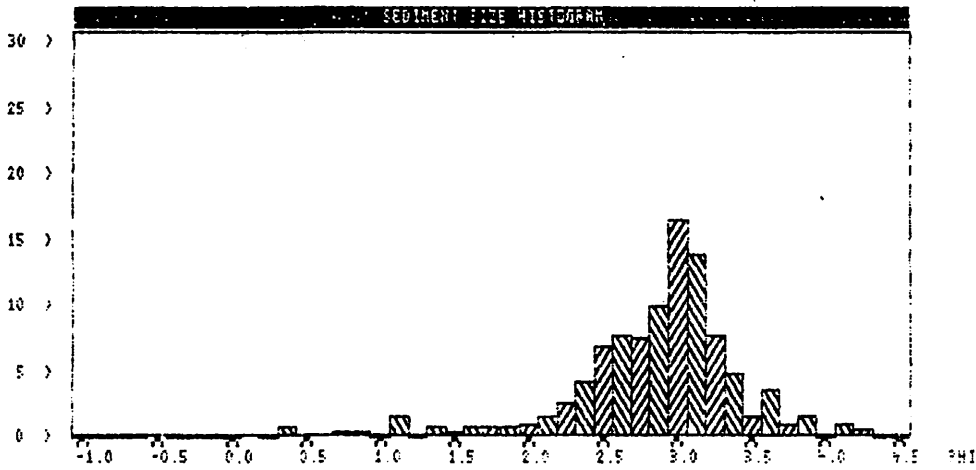
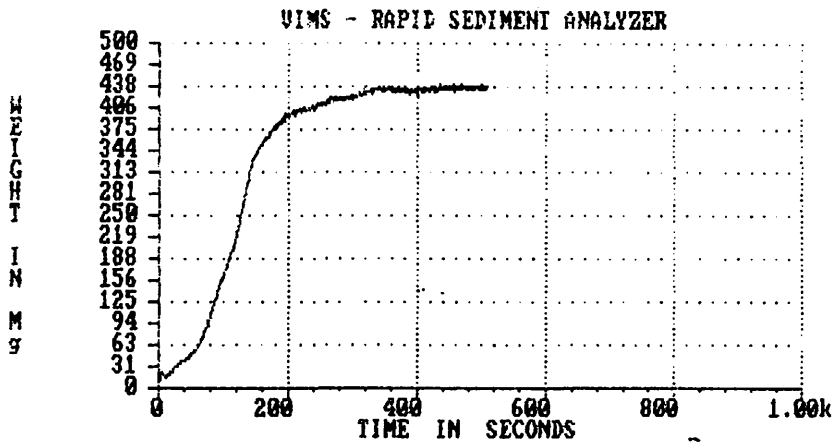
CORE 34 S-4 2.47-3.24M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
703.2070 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.7658 0.6323 -1.5937 7.7434 M1 M2 M3 M4 (phi)  
2.8239 2.8880 0.5270 -0.2728 0.4120 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.9951	0.2352	0.9951	0.2352
-0.3750	1.2968	14.5884	0.0000	0.0000	0.9951	0.2352
-0.2500	1.1892	13.6217	0.0000	0.0000	0.9951	0.2352
-0.1250	1.0905	12.6995	0.0000	0.0000	0.9951	0.2352
0.0000	1.0000	11.8208	0.0000	0.0000	0.9951	0.2352
0.1250	0.9170	10.9848	1.0985	0.2596	2.0936	0.4949
0.2500	0.8409	10.1905	0.0314	0.0074	2.1250	0.5023
0.3750	0.7711	9.4370	3.4754	0.8215	5.6004	1.3237
0.5000	0.7071	8.7233	0.5842	0.1381	6.1846	1.4618
0.6250	0.6484	8.0484	0.9102	0.2151	7.0948	1.6770
0.7500	0.5946	7.4111	1.2356	0.2921	8.3303	1.9690
0.8750	0.5453	6.8104	1.1091	0.2621	9.4394	2.2311
1.0000	0.5000	6.2452	0.0000	0.0000	9.4394	2.2311
1.1250	0.4585	5.7143	6.7688	1.5999	16.2082	3.8311
1.2500	0.4204	5.2167	0.0000	0.0000	16.2082	3.8311
1.3750	0.3856	4.7510	3.2210	0.7613	19.4292	4.5924
1.5000	0.3536	4.3163	1.2027	0.2843	20.6319	4.8767
1.6250	0.3242	3.9113	2.9770	0.7037	23.6089	5.5803
1.7500	0.2973	3.5349	3.3118	0.7828	26.9207	6.3631
1.8750	0.2726	3.1860	2.8649	0.6772	29.7856	7.0403
2.0000	0.2500	2.8634	4.4337	1.0480	34.2194	8.0883
2.1250	0.2293	2.5660	6.9290	1.6378	41.1484	9.7260
2.2500	0.2102	2.2927	10.5211	2.4868	51.6695	12.2129
2.3750	0.1928	2.0423	17.4680	4.1288	69.1375	16.3417
2.5000	0.1768	1.8137	28.7396	6.7931	97.8771	23.1348
2.6250	0.1621	1.6058	32.7127	7.7321	130.5897	30.8669
2.7500	0.1487	1.4175	31.6783	7.4877	162.2680	38.3545
2.8750	0.1363	1.2476	42.0773	9.9456	204.3453	48.3001
3.0000	0.1250	1.0949	69.3041	16.3811	273.6494	64.6812
3.1250	0.1146	0.9582	57.6066	13.6162	331.2560	78.2974
3.2500	0.1051	0.8364	32.0257	7.5698	363.2817	85.8672
3.3750	0.0964	0.7282	20.6827	4.8887	383.9644	90.7559
3.5000	0.0884	0.6326	7.0725	1.6717	391.0369	92.4276
3.6250	0.0811	0.5484	15.0452	3.5562	406.0821	95.9837
3.7500	0.0743	0.4744	3.8175	0.9023	409.8996	96.8860
3.8750	0.0682	0.4098	6.5809	1.5555	416.4805	98.4415
4.0000	0.0625	0.3533	0.0000	0.0000	416.4805	98.4415
4.1250	0.0573	0.3043	3.9467	0.9329	420.4272	99.3744
4.2500	0.0526	0.2617	2.6467	0.6256	423.0739	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	423.0739	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	423.0739	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S5

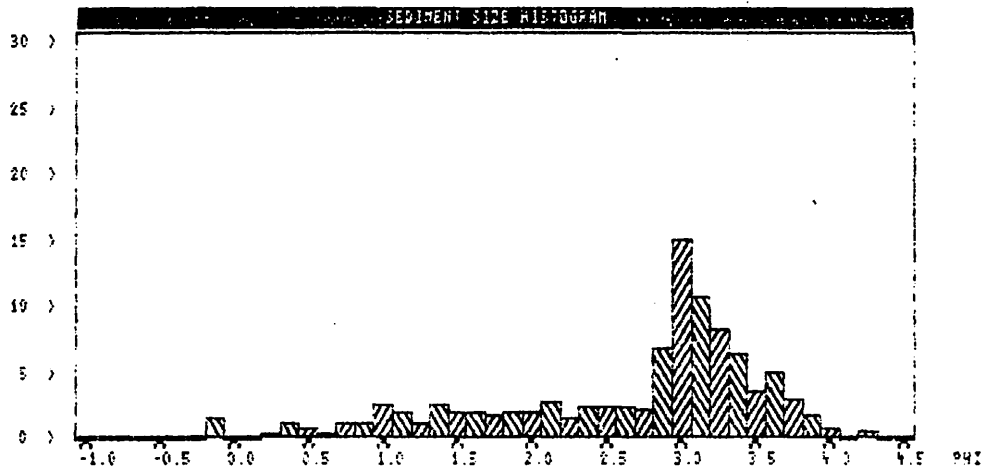
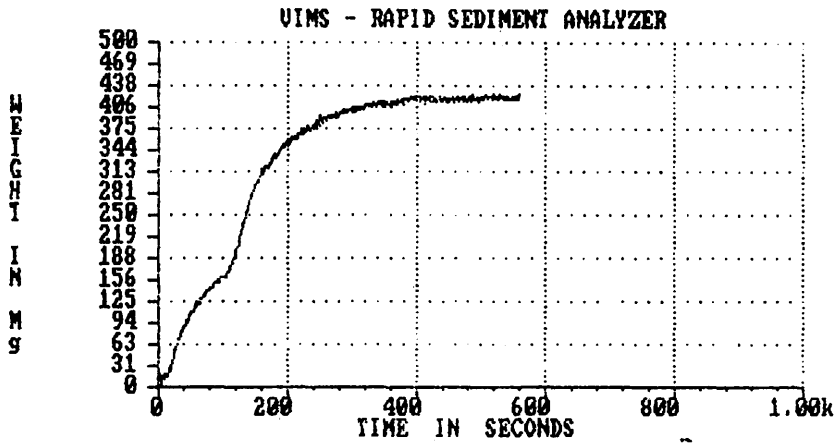
CORE 34 S-5 3.24-3.91M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
672.6498 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.5772 0.9392 -1.0230 3.2864 M1 M2 M3 M4 (phi)  
2.5719 2.9195 0.9259 -0.5159 0.5120 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	6.5183	1.5831	6.5183	1.5831
0.0000	1.0000	11.8208	0.0000	0.0000	6.5183	1.5831
0.1250	0.9170	10.9848	0.0000	0.0000	6.5183	1.5831
0.2500	0.8409	10.1905	1.3939	0.3385	7.9122	1.9216
0.3750	0.7711	9.4370	5.0889	1.2359	13.0011	3.1575
0.5000	0.7071	8.7233	2.7664	0.6719	15.7675	3.8293
0.6250	0.6484	8.0484	1.3589	0.3300	17.1263	4.1594
0.7500	0.5946	7.4111	4.4328	1.0766	21.5591	5.2359
0.8750	0.5453	6.8104	4.7706	1.1586	26.3297	6.3945
1.0000	0.5000	6.2452	10.7719	2.6161	37.1017	9.0106
1.1250	0.4585	5.7143	8.2262	1.9978	45.3279	11.0085
1.2500	0.4204	5.2167	5.1727	1.2563	50.5006	12.2648
1.3750	0.3856	4.7510	10.8616	2.6379	61.3622	14.9027
1.5000	0.3536	4.3163	8.4428	2.0504	69.8051	16.9531
1.6250	0.3242	3.9113	7.7461	1.8812	77.5512	18.8343
1.7500	0.2973	3.5349	7.1658	1.7403	84.7170	20.5747
1.8750	0.2726	3.1860	7.7693	1.8869	92.4863	22.4615
2.0000	0.2500	2.8634	8.1967	1.9907	100.6830	24.4522
2.1250	0.2293	2.5660	11.0867	2.6926	111.7697	27.1448
2.2500	0.2102	2.2927	6.1510	1.4939	117.9208	28.6386
2.3750	0.1928	2.0423	9.8459	2.3912	127.7666	31.0299
2.5000	0.1768	1.8137	9.4967	2.3064	137.2633	33.3363
2.6250	0.1621	1.6058	9.4379	2.2921	146.7012	35.6284
2.7500	0.1487	1.4175	8.9399	2.1712	155.6411	37.7996
2.8750	0.1363	1.2476	28.3834	6.8933	184.0245	44.6928
3.0000	0.1250	1.0949	61.4176	14.9161	245.4421	59.6089
3.1250	0.1146	0.9582	44.2370	10.7436	289.6792	70.3525
3.2500	0.1051	0.8364	33.8131	8.2120	323.4922	78.5645
3.3750	0.0964	0.7282	26.8202	6.5136	350.3124	85.0781
3.5000	0.0884	0.6326	15.1845	3.6878	365.4970	88.7659
3.6250	0.0811	0.5484	20.5410	4.9886	386.0379	93.7545
3.7500	0.0743	0.4744	12.0761	2.9329	398.1141	96.6874
3.8750	0.0682	0.4098	7.6407	1.8557	405.7548	98.5430
4.0000	0.0625	0.3533	3.2736	0.7950	409.0284	99.3381
4.1250	0.0573	0.3043	0.0000	0.0000	409.0284	99.3381
4.2500	0.0526	0.2617	2.7255	0.6619	411.7539	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	411.7539	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	411.7539	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S6

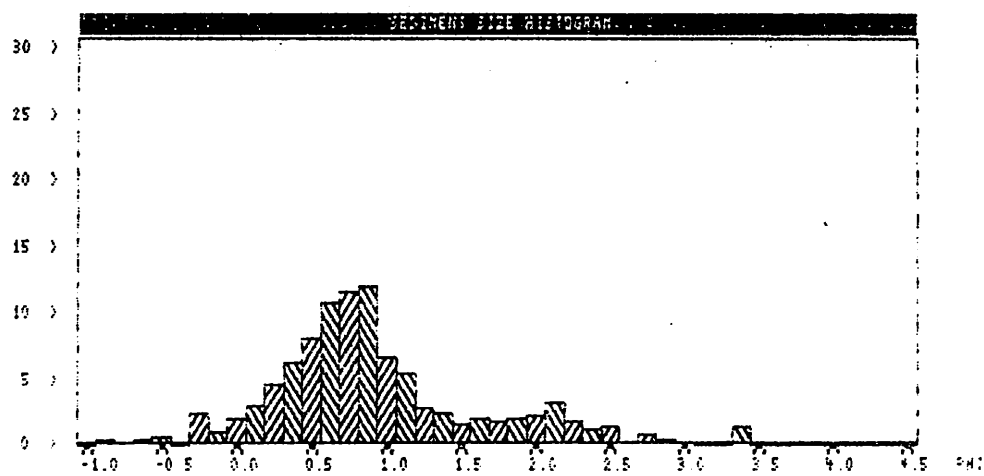
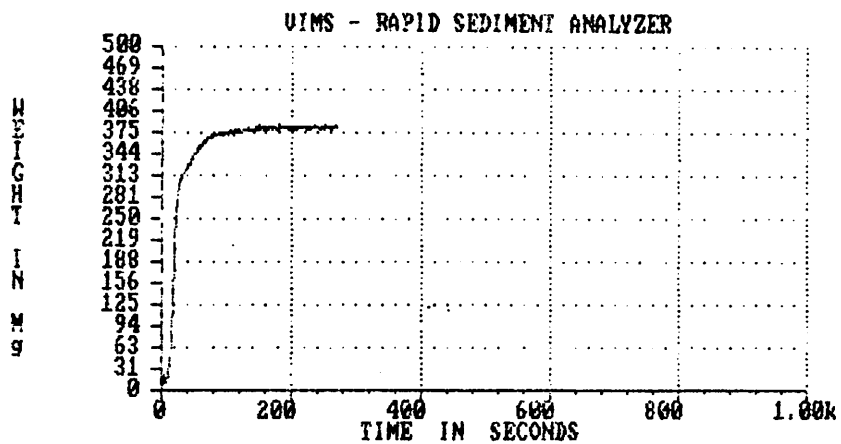
CORE 34 S-6 3.91-4.08M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
613.8860    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
0.8813    0.7352    0.8974    4.0685    M1 M2 M3 M4 (phi)  
0.8943    0.7401    0.7101    0.3138    1.0291    Mz,Md,S1,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.3513	0.3660	1.3513	0.3660
-0.7500	1.6818	17.7631	0.5756	0.1559	1.9269	0.5220
-0.6250	1.5422	16.6582	1.6096	0.4360	3.5364	0.9579
-0.5000	1.4142	15.6003	2.0025	0.5424	5.5389	1.5004
-0.3750	1.2968	14.5884	0.0000	0.0000	5.5389	1.5004
-0.2500	1.1892	13.6217	8.5934	2.3278	14.1323	3.8282
-0.1250	1.0905	12.6995	3.4668	0.9391	17.5991	4.7672
0.0000	1.0000	11.8208	7.4959	2.0305	25.0950	6.7977
0.1250	0.9170	10.9848	11.0270	2.9870	36.1221	9.7847
0.2500	0.8409	10.1905	17.3312	4.6947	53.4533	14.4794
0.3750	0.7711	9.4370	23.0861	6.2535	76.5394	20.7329
0.5000	0.7071	8.7233	29.6527	8.0323	106.1920	28.7652
0.6250	0.6484	8.0484	39.4396	10.6834	145.6317	39.4486
0.7500	0.5946	7.4111	42.2933	11.4564	187.9249	50.9049
0.8750	0.5453	6.8104	43.7900	11.8618	231.7149	62.7667
1.0000	0.5000	6.2452	24.2722	6.5748	255.9871	69.3416
1.1250	0.4585	5.7143	19.7285	5.3440	275.7156	74.6856
1.2500	0.4204	5.2167	10.1672	2.7541	285.8828	77.4397
1.3750	0.3856	4.7510	8.6895	2.3538	294.5723	79.7935
1.5000	0.3536	4.3163	6.0457	1.6377	300.6180	81.4311
1.6250	0.3242	3.9113	7.4201	2.0100	308.0381	83.4411
1.7500	0.2973	3.5349	6.8953	1.8678	314.9335	85.3089
1.8750	0.2726	3.1860	7.5445	2.0437	322.4780	87.3526
2.0000	0.2500	2.8634	7.8212	2.1186	330.2992	89.4712
2.1250	0.2293	2.5660	11.9829	3.2459	342.2821	92.7171
2.2500	0.2102	2.2927	6.8350	1.8515	349.1171	94.5686
2.3750	0.1928	2.0423	4.3381	1.1751	353.4553	95.7437
2.5000	0.1768	1.8137	4.7895	1.2974	358.2447	97.0410
2.6250	0.1621	1.6058	0.8382	0.2270	359.0829	97.2681
2.7500	0.1487	1.4175	2.8144	0.7624	361.8973	98.0304
2.8750	0.1363	1.2476	1.3871	0.3757	363.2845	98.4062
3.0000	0.1250	1.0949	0.7118	0.1928	363.9962	98.5990
3.1250	0.1146	0.9582	0.0000	0.0000	363.9962	98.5990
3.2500	0.1051	0.8364	0.0000	0.0000	363.9962	98.5990
3.3750	0.0964	0.7282	5.1721	1.4010	369.1683	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	369.1683	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	369.1683	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	369.1683	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	369.1683	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	369.1683	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	369.1683	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	369.1683	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.1683	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.1683	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S7

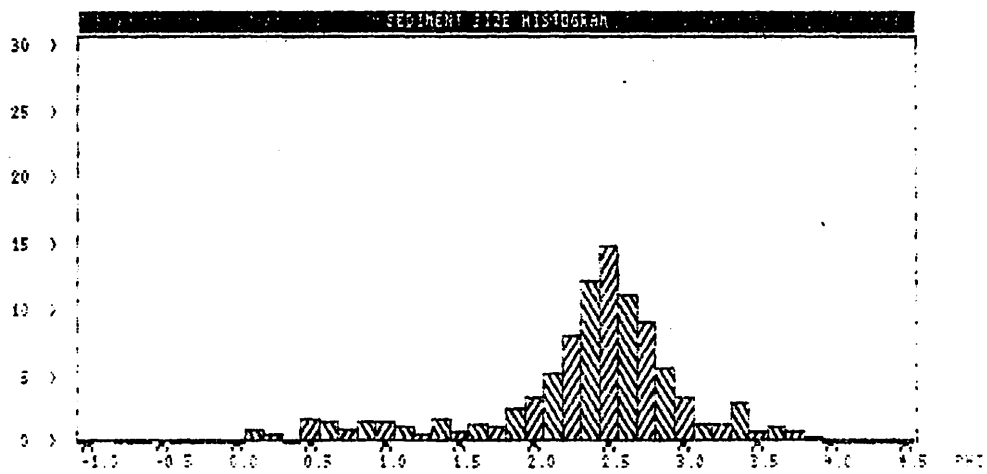
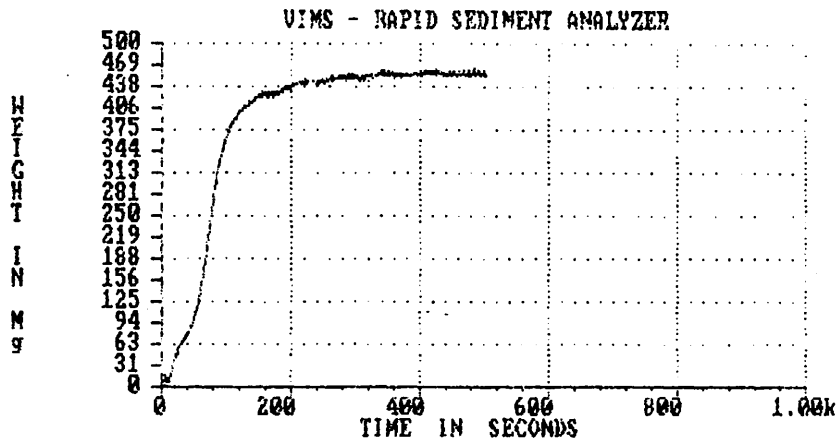
CORE 34 S-7 4.08-4.14M

VAREACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
727.8878 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.2588 0.7268 -1.1556 4.8394 M1 M2 M3 M4 (phi)  
2.3104 2.3979 0.6681 -0.2891 0.6106 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.1006	0.2457	1.1006	0.2457
-0.7500	1.6818	17.7631	0.0000	0.0000	1.1006	0.2457
-0.6250	1.5422	16.6582	0.0000	0.0000	1.1006	0.2457
-0.5000	1.4142	15.6003	0.2691	0.0601	1.3697	0.3058
-0.3750	1.2968	14.5884	0.0000	0.0000	1.3697	0.3058
-0.2500	1.1892	13.6217	0.0000	0.0000	1.3697	0.3058
-0.1250	1.0905	12.6995	0.0000	0.0000	1.3697	0.3058
0.0000	1.0000	11.8208	0.0000	0.0000	1.3697	0.3058
0.1250	0.9170	10.9848	4.1479	0.9261	5.5175	1.2319
0.2500	0.8409	10.1905	2.8888	0.6450	8.4063	1.8769
0.3750	0.7711	9.4370	0.0000	0.0000	8.4063	1.8769
0.5000	0.7071	8.7233	7.5966	1.6961	16.0029	3.5731
0.6250	0.6484	8.0484	6.8480	1.5290	22.8509	5.1020
0.7500	0.5946	7.4111	4.3730	0.9764	27.2239	6.0784
0.8750	0.5453	6.8104	7.3703	1.6456	34.5942	7.7240
1.0000	0.5000	6.2452	6.8971	1.5399	41.4913	9.2640
1.1250	0.4585	5.7143	5.2637	1.1753	46.7550	10.4392
1.2500	0.4204	5.2167	2.3149	0.5169	49.0699	10.9561
1.3750	0.3856	4.7510	7.6113	1.6994	56.6812	12.6555
1.5000	0.3536	4.3163	3.2778	0.7318	59.9590	13.3874
1.6250	0.3242	3.9113	6.4644	1.4434	66.4234	14.8307
1.7500	0.2973	3.5349	5.5014	1.2283	71.9248	16.0590
1.8750	0.2726	3.1860	11.5598	2.5810	83.4846	18.6401
2.0000	0.2500	2.8634	14.8197	3.3089	98.3043	21.9489
2.1250	0.2293	2.5660	23.5230	5.2521	121.8273	27.2010
2.2500	0.2102	2.2927	35.9473	8.0261	157.7746	35.2272
2.3750	0.1928	2.0423	54.1549	12.0915	211.9295	47.3186
2.5000	0.1768	1.8137	65.5139	14.6276	277.4434	61.9463
2.6250	0.1621	1.6058	49.9247	11.1470	327.3680	73.0932
2.7500	0.1487	1.4175	40.9315	9.1390	368.2995	82.2322
2.8750	0.1363	1.2476	25.1072	5.6058	393.4067	87.8380
3.0000	0.1250	1.0949	14.9170	3.3306	408.3236	91.1686
3.1250	0.1146	0.9582	5.8440	1.3048	414.1676	92.4735
3.2500	0.1051	0.8364	5.8024	1.2955	419.9700	93.7690
3.3750	0.0964	0.7282	13.5190	3.0185	433.4891	96.7875
3.5000	0.0884	0.6326	3.6761	0.8208	437.1652	97.6083
3.6250	0.0811	0.5484	5.3533	1.1953	442.5186	98.8035
3.7500	0.0743	0.4744	3.5654	0.7961	446.0840	99.5996
3.8750	0.0682	0.4098	1.7933	0.4004	447.8773	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	447.8773	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	447.8773	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	447.8773	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	447.8773	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	447.8773	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C34\_S8

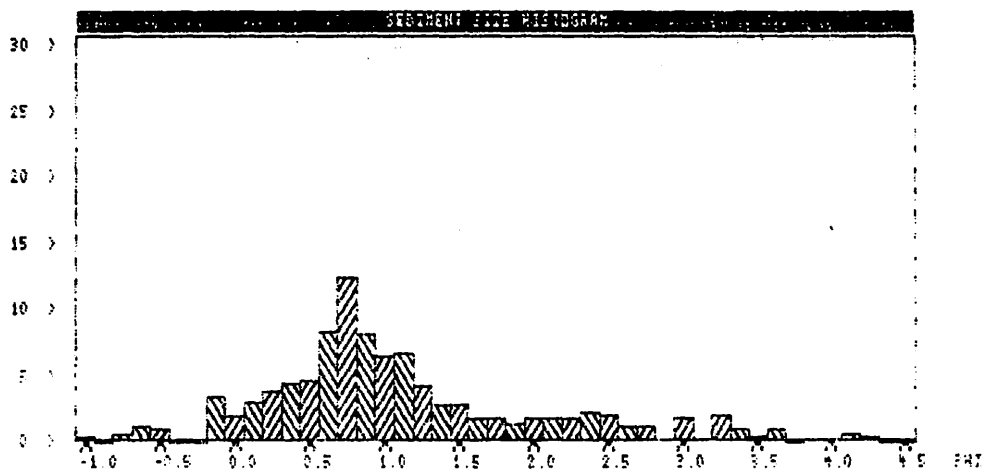
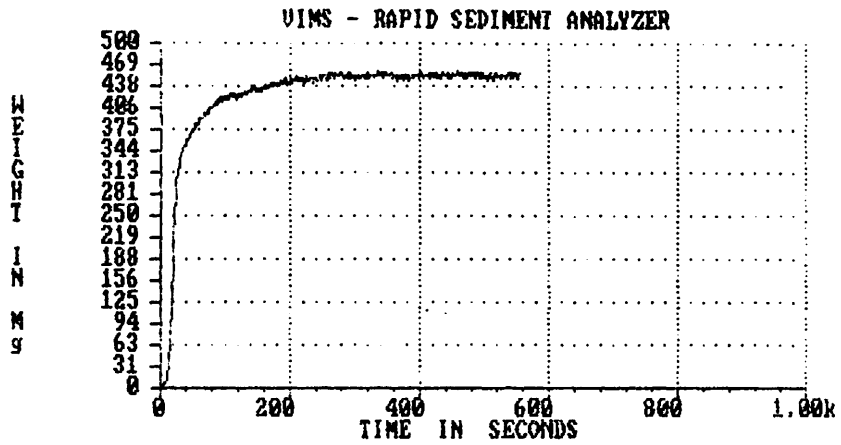
CORE 34 S-8 4.14-4.25M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
732.1971 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$   
1.0793 0.9690 0.8883 3.6543 M1 M2 M3 M4 (phi)  
1.0804 0.8365 0.9691 0.3930 1.0719 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.8645	0.4098	1.8645	0.4098
-0.8750	1.8340	18.9156	0.2563	0.0563	2.1208	0.4661
-0.7500	1.6818	17.7631	2.7425	0.6028	4.8633	1.0689
-0.6250	1.5422	16.6582	4.9129	1.0798	9.7762	2.1487
-0.5000	1.4142	15.6003	4.3658	0.9596	14.1420	3.1083
-0.3750	1.2968	14.5884	0.0000	0.0000	14.1420	3.1083
-0.2500	1.1892	13.6217	0.0000	0.0000	14.1420	3.1083
-0.1250	1.0905	12.6995	15.1595	3.3319	29.3014	6.4402
0.0000	1.0000	11.8208	8.8116	1.9367	38.1130	8.3769
0.1250	0.9170	10.9848	13.4814	2.9631	51.5944	11.3399
0.2500	0.8409	10.1905	17.1827	3.7766	68.7771	15.1165
0.3750	0.7711	9.4370	19.8888	4.3714	88.6660	19.4879
0.5000	0.7071	8.7233	20.5893	4.5253	109.2552	24.0132
0.6250	0.6484	8.0484	37.0460	8.1423	146.3013	32.1555
0.7500	0.5946	7.4111	56.0536	12.3200	202.3549	44.4756
0.8750	0.5453	6.8104	36.3278	7.9845	238.6827	52.4601
1.0000	0.5000	6.2452	29.2093	6.4199	267.8920	58.8800
1.1250	0.4585	5.7143	30.1924	6.6360	298.0844	65.5160
1.2500	0.4204	5.2167	19.3647	4.2562	317.4492	69.7721
1.3750	0.3856	4.7510	12.5289	2.7537	329.9781	72.5259
1.5000	0.3536	4.3163	12.5706	2.7629	342.5487	75.2888
1.6250	0.3242	3.9113	8.1357	1.7881	350.6844	77.0769
1.7500	0.2973	3.5349	8.2618	1.8159	358.9462	78.8928
1.8750	0.2726	3.1860	6.0841	1.3372	365.0303	80.2300
2.0000	0.2500	2.8634	8.4057	1.8475	373.4361	82.0775
2.1250	0.2293	2.5660	8.4587	1.8591	381.8948	83.9366
2.2500	0.2102	2.2927	8.0045	1.7593	389.8993	85.6959
2.3750	0.1928	2.0423	10.1089	2.2218	400.0082	87.9178
2.5000	0.1768	1.8137	9.0131	1.9810	409.0213	89.8988
2.6250	0.1621	1.6058	5.7503	1.2639	414.7716	91.1626
2.7500	0.1487	1.4175	5.0972	1.1203	419.8688	92.2829
2.8750	0.1363	1.2476	0.8857	0.1947	420.7545	92.4776
3.0000	0.1250	1.0949	8.2311	1.8091	428.9856	94.2867
3.1250	0.1146	0.9582	0.8451	0.1858	429.8308	94.4725
3.2500	0.1051	0.8364	9.1380	2.0084	438.9688	96.4809
3.3750	0.0964	0.7282	4.7405	1.0419	443.7093	97.5228
3.5000	0.0884	0.6326	1.2014	0.2640	444.9107	97.7869
3.6250	0.0811	0.5484	4.5346	0.9967	449.4452	98.7835
3.7500	0.0743	0.4744	0.0000	0.0000	449.4452	98.7835
3.8750	0.0682	0.4098	0.5513	0.1212	449.9965	98.9047
4.0000	0.0625	0.3533	0.4095	0.0900	450.4061	98.9947
4.1250	0.0573	0.3043	2.9832	0.6557	453.3893	99.6504
4.2500	0.0526	0.2617	1.5906	0.3496	454.9799	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	454.9799	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	454.9799	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C34\_S9

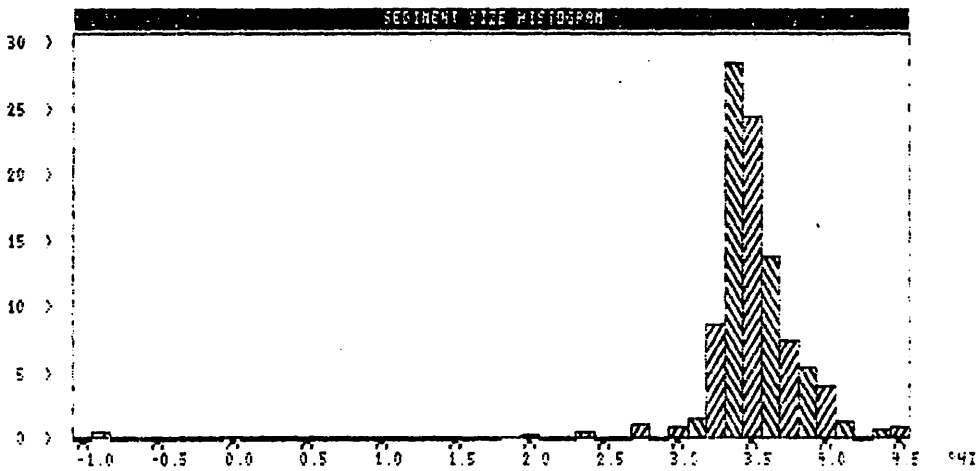
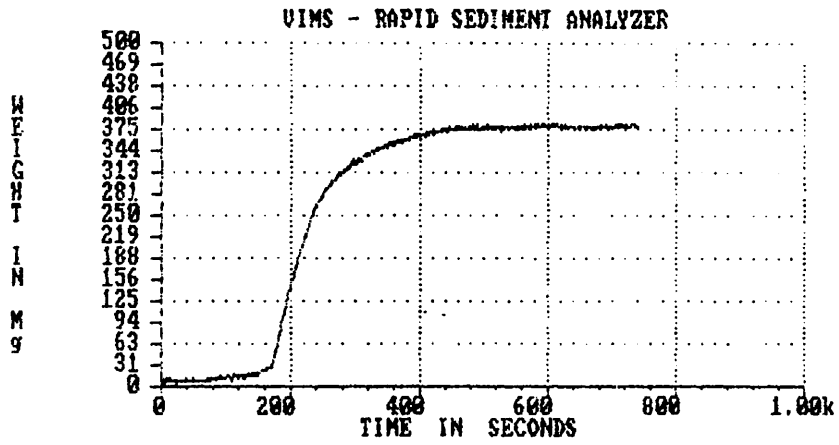
CORE 34 S-9 4.25-4.77M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
610.7519 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
3.4232 0.4376 -5.5436 55.4034 M1 M2 M3 M4 (phi)  
3.4550 3.4158 0.2313 0.2736 0.1506 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.9301	0.5131	1.9301	0.5131
-0.7500	1.6818	17.7631	0.0000	0.0000	1.9301	0.5131
-0.6250	1.5422	16.6582	0.0000	0.0000	1.9301	0.5131
-0.5000	1.4142	15.6003	0.0000	0.0000	1.9301	0.5131
-0.3750	1.2968	14.5884	0.0000	0.0000	1.9301	0.5131
-0.2500	1.1892	13.6217	0.0000	0.0000	1.9301	0.5131
-0.1250	1.0905	12.6995	0.0080	0.0021	1.9381	0.5152
0.0000	1.0000	11.8208	0.2284	0.0607	2.1666	0.5759
0.1250	0.9170	10.9848	0.0000	0.0000	2.1666	0.5759
0.2500	0.8409	10.1905	0.0000	0.0000	2.1666	0.5759
0.3750	0.7711	9.4370	0.0000	0.0000	2.1666	0.5759
0.5000	0.7071	8.7233	0.0000	0.0000	2.1666	0.5759
0.6250	0.6484	8.0484	0.0000	0.0000	2.1666	0.5759
0.7500	0.5946	7.4111	0.0000	0.0000	2.1666	0.5759
0.8750	0.5453	6.8104	0.1942	0.0516	2.3608	0.6275
1.0000	0.5000	6.2452	0.0000	0.0000	2.3608	0.6275
1.1250	0.4585	5.7143	0.0000	0.0000	2.3608	0.6275
1.2500	0.4204	5.2167	0.0165	0.0044	2.3773	0.6319
1.3750	0.3856	4.7510	0.0000	0.0000	2.3773	0.6319
1.5000	0.3536	4.3163	0.0000	0.0000	2.3773	0.6319
1.6250	0.3242	3.9113	0.0000	0.0000	2.3773	0.6319
1.7500	0.2973	3.5349	0.0000	0.0000	2.3773	0.6319
1.8750	0.2726	3.1860	0.5348	0.1421	2.9120	0.7741
2.0000	0.2500	2.8634	1.2740	0.3387	4.1861	1.1127
2.1250	0.2293	2.5660	0.0000	0.0000	4.1861	1.1127
2.2500	0.2102	2.2927	0.0000	0.0000	4.1861	1.1127
2.3750	0.1928	2.0423	1.7658	0.4694	5.9519	1.5821
2.5000	0.1768	1.8137	0.0000	0.0000	5.9519	1.5821
2.6250	0.1621	1.6058	0.0000	0.0000	5.9519	1.5821
2.7500	0.1487	1.4175	4.2201	1.1218	10.1720	2.7039
2.8750	0.1363	1.2476	0.0000	0.0000	10.1720	2.7039
3.0000	0.1250	1.0949	3.2921	0.8751	13.4641	3.5790
3.1250	0.1146	0.9582	5.6259	1.4955	19.0900	5.0745
3.2500	0.1051	0.8364	32.6960	8.6912	51.7861	13.7657
3.3750	0.0964	0.7282	106.4843	28.3056	158.2704	42.0714
3.5000	0.0884	0.6326	91.3598	24.2852	249.6302	66.3566
3.6250	0.0811	0.5484	51.8638	13.7864	301.4940	80.1430
3.7500	0.0743	0.4744	28.2529	7.5102	329.7469	87.6532
3.8750	0.0682	0.4098	20.1912	5.3672	349.9381	93.0204
4.0000	0.0625	0.3533	15.0883	4.0108	365.0264	97.0312
4.1250	0.0573	0.3043	5.0724	1.3483	370.0988	98.3795
4.2500	0.0526	0.2617	0.0000	0.0000	370.0988	98.3795
4.3750	0.0482	0.2248	2.6597	0.7070	372.7585	99.0865
4.5000	0.0442	0.1930	3.4366	0.9135	376.1950	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C35\_S6

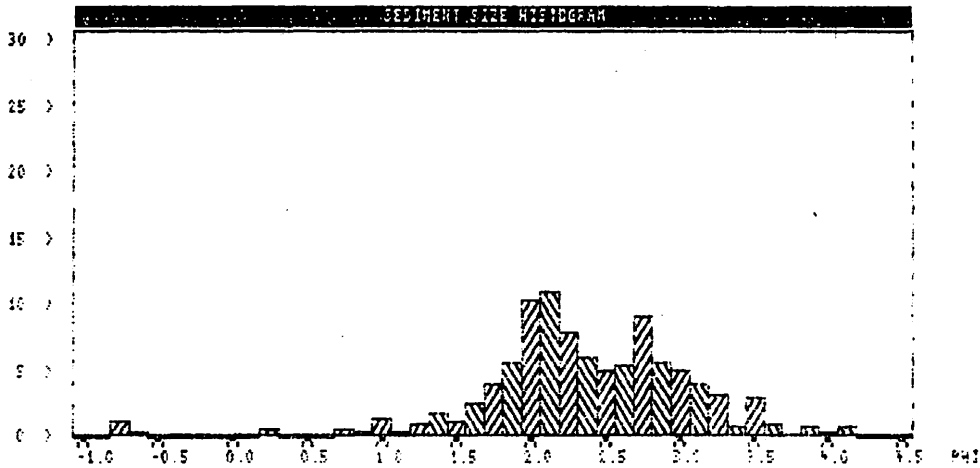
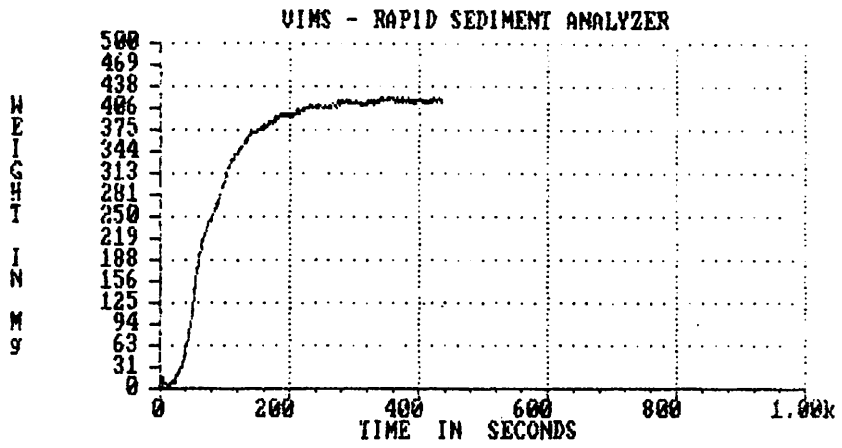
CORE 35 S-6 5.42-5.90

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
678.1344 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.2930 0.7332 -0.9320 6.3108 M1 M2 M3 M4 (phi)  
2.3269 2.2572 0.6391 0.1071 0.4713 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	4.5551	1.0722	4.5551	1.0722
-0.6250	1.5422	16.6582	1.3717	0.3229	5.9268	1.3950
-0.5000	1.4142	15.6003	0.0000	0.0000	5.9268	1.3950
-0.3750	1.2968	14.5884	0.0000	0.0000	5.9268	1.3950
-0.2500	1.1892	13.6217	0.0000	0.0000	5.9268	1.3950
-0.1250	1.0905	12.6995	0.0000	0.0000	5.9268	1.3950
0.0000	1.0000	11.8208	0.0000	0.0000	5.9268	1.3950
0.1250	0.9170	10.9848	0.0000	0.0000	5.9268	1.3950
0.2500	0.8409	10.1905	2.3534	0.5539	8.2802	1.9490
0.3750	0.7711	9.4370	0.1215	0.0286	8.4017	1.9776
0.5000	0.7071	8.7233	0.0000	0.0000	8.4017	1.9776
0.6250	0.6484	8.0484	0.0000	0.0000	8.4017	1.9776
0.7500	0.5946	7.4111	2.5909	0.6098	10.9926	2.5874
0.8750	0.5453	6.8104	1.5213	0.3581	12.5139	2.9455
1.0000	0.5000	6.2452	5.5095	1.2968	18.0234	4.2423
1.1250	0.4585	5.7143	1.4253	0.3355	19.4487	4.5778
1.2500	0.4204	5.2167	4.5174	1.0633	23.9661	5.6411
1.3750	0.3856	4.7510	7.6466	1.7998	31.6128	7.4409
1.5000	0.3536	4.3163	5.2523	1.2363	36.8651	8.6772
1.6250	0.3242	3.9113	11.1986	2.6359	48.0636	11.3131
1.7500	0.2973	3.5349	16.8361	3.9628	64.8997	15.2759
1.8750	0.2726	3.1860	23.7698	5.5949	88.6695	20.8707
2.0000	0.2500	2.8634	43.2726	10.1854	131.9422	31.0561
2.1250	0.2293	2.5660	46.1097	10.8532	178.0519	41.9093
2.2500	0.2102	2.2927	32.9158	7.7476	210.9677	49.6569
2.3750	0.1928	2.0423	25.1677	5.9239	236.1354	55.5808
2.5000	0.1768	1.8137	21.0471	4.9540	257.1825	60.5348
2.6250	0.1621	1.6058	23.2444	5.4712	280.4269	66.0060
2.7500	0.1487	1.4175	38.7709	9.1258	319.1978	75.1317
2.8750	0.1363	1.2476	23.6942	5.5771	342.8920	80.7088
3.0000	0.1250	1.0949	21.2410	4.9996	364.1331	85.7084
3.1250	0.1146	0.9582	16.8877	3.9750	381.0207	89.6834
3.2500	0.1051	0.8364	13.6691	3.2174	394.6899	92.9008
3.3750	0.0964	0.7282	3.5343	0.8319	398.2241	93.7327
3.5000	0.0884	0.6326	12.8840	3.0326	411.1081	96.7653
3.6250	0.0811	0.5484	4.4059	1.0371	415.5141	97.8023
3.7500	0.0743	0.4744	1.0590	0.2493	416.5730	98.0516
3.8750	0.0682	0.4098	3.5264	0.8300	420.0994	98.8816
4.0000	0.0625	0.3533	1.4151	0.3331	421.5145	99.2147
4.1250	0.0573	0.3043	3.3364	0.7853	424.8509	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	424.8509	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	424.8509	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	424.8509	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C36\_R1S1

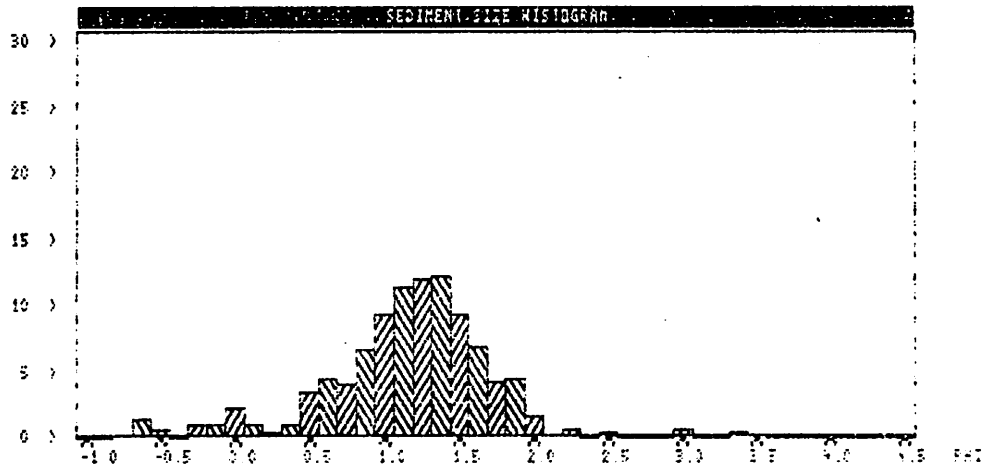
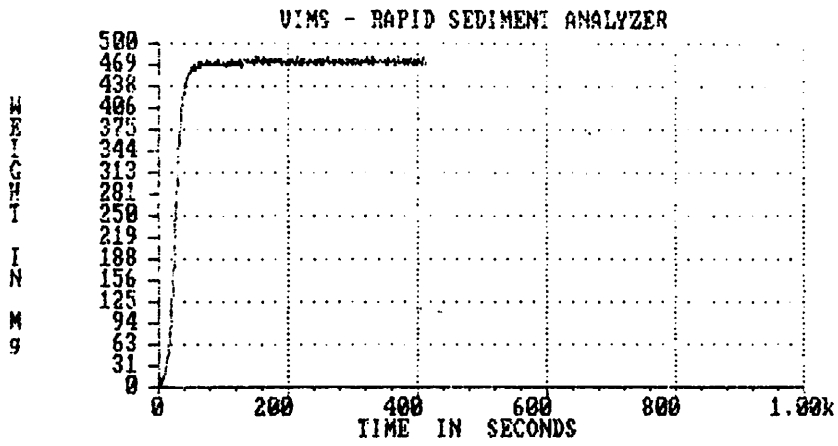
CORE 36 R-1 S-1 0-1.25M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
751.7851 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.0860 0.5709 -0.4825 5.1576 M1 M2 M3 M4 (phi)  
1.1053 1.1482 0.5239 -0.2088 0.7277 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.9990	0.2160	0.9990	0.2160
-0.6250	1.5422	16.6582	6.3893	1.3817	7.3883	1.5977
-0.5000	1.4142	15.6003	2.4705	0.5343	9.8589	2.1320
-0.3750	1.2968	14.5884	0.0000	0.0000	9.8589	2.1320
-0.2500	1.1892	13.6217	4.2658	0.9225	14.1247	3.0545
-0.1250	1.0905	12.6995	4.8152	1.0413	18.9398	4.0958
0.0000	1.0000	11.8208	10.3520	2.2386	29.2918	6.3344
0.1250	0.9170	10.9848	4.8596	1.0509	34.1514	7.3853
0.2500	0.8409	10.1905	1.3631	0.2948	35.5145	7.6801
0.3750	0.7711	9.4370	4.4346	0.9590	39.9491	8.6390
0.5000	0.7071	8.7233	15.7719	3.4107	55.7210	12.0497
0.6250	0.6484	8.0484	19.9105	4.3057	75.6315	16.3554
0.7500	0.5946	7.4111	18.9462	4.0971	94.5778	20.4525
0.8750	0.5453	6.8104	30.9558	6.6942	125.5336	27.1467
1.0000	0.5000	6.2452	43.1019	9.3208	168.6355	36.4676
1.1250	0.4585	5.7143	52.3653	11.3240	221.0008	47.7916
1.2500	0.4204	5.2167	55.1012	11.9157	276.1020	59.7073
1.3750	0.3856	4.7510	55.9794	12.1056	332.0814	71.8129
1.5000	0.3536	4.3163	43.1433	9.3298	375.2247	81.1427
1.6250	0.3242	3.9113	31.1601	6.7384	406.3848	87.8811
1.7500	0.2973	3.5349	19.2944	4.1724	425.6792	92.0535
1.8750	0.2726	3.1860	20.0248	4.3304	445.7041	96.3839
2.0000	0.2500	2.8634	7.7237	1.6702	453.4277	98.0541
2.1250	0.2293	2.5660	0.4121	0.0891	453.8398	98.1433
2.2500	0.2102	2.2927	2.5280	0.5467	456.3679	98.6900
2.3750	0.1928	2.0423	0.0000	0.0000	456.3679	98.6900
2.5000	0.1768	1.8137	1.7027	0.3682	458.0706	99.0582
2.6250	0.1621	1.6058	0.0000	0.0000	458.0706	99.0582
2.7500	0.1487	1.4175	0.0000	0.0000	458.0706	99.0582
2.8750	0.1363	1.2476	0.0000	0.0000	458.0706	99.0582
3.0000	0.1250	1.0949	2.7105	0.5861	460.7811	99.6443
3.1250	0.1146	0.9582	0.0000	0.0000	460.7811	99.6443
3.2500	0.1051	0.8364	0.0000	0.0000	460.7811	99.6443
3.3750	0.0964	0.7282	1.2330	0.2666	462.0141	99.9109
3.5000	0.0884	0.6326	0.4118	0.0891	462.4259	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	462.4259	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	462.4259	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	462.4259	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	462.4259	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	462.4259	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	462.4259	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	462.4259	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	462.4259	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C36\_R2S1

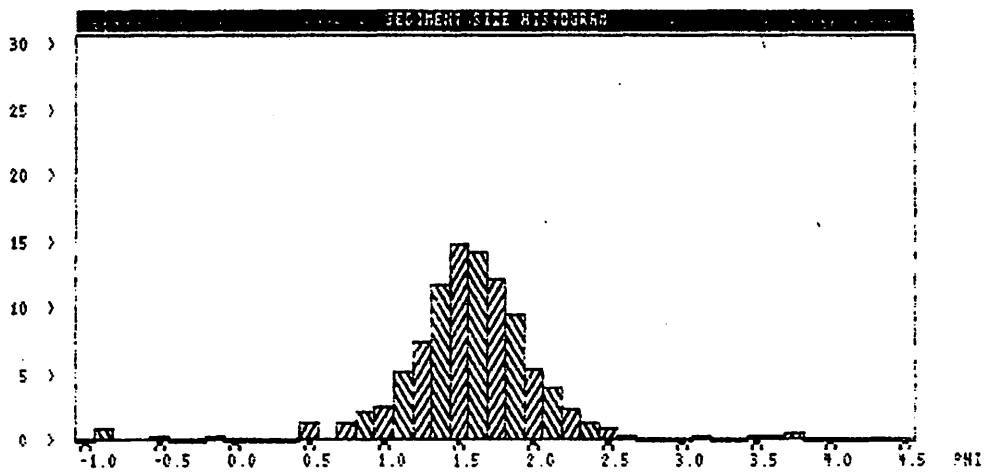
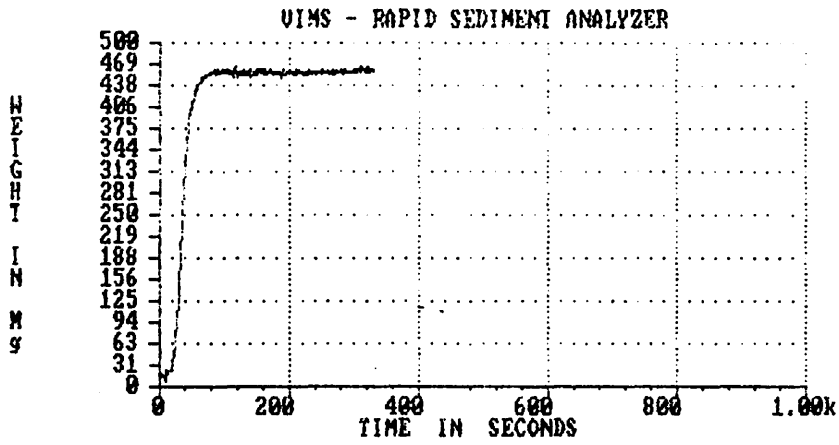
CORE 36 R-2 S-1 0-1.38M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
738.0735 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.4903 0.5423 -0.8172 9.6466 M1 M2 M3 M4 (phi)  
1.5065 1.5102 0.4007 -0.0347 0.4815 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	4.4652	0.9830	4.4652	0.9830
-0.7500	1.6818	17.7631	1.1407	0.2511	5.6059	1.2341
-0.6250	1.5422	16.6582	0.9240	0.2034	6.5298	1.4376
-0.5000	1.4142	15.6003	1.5235	0.3354	8.0534	1.7730
-0.3750	1.2968	14.5884	0.0000	0.0000	8.0534	1.7730
-0.2500	1.1892	13.6217	0.0000	0.0000	8.0534	1.7730
-0.1250	1.0905	12.6995	1.7685	0.3893	9.8219	2.1623
0.0000	1.0000	11.8208	0.0000	0.0000	9.8219	2.1623
0.1250	0.9170	10.9848	0.0000	0.0000	9.8219	2.1623
0.2500	0.8409	10.1905	0.0000	0.0000	9.8219	2.1623
0.3750	0.7711	9.4370	0.0000	0.0000	9.8219	2.1623
0.5000	0.7071	8.7233	5.9696	1.3142	15.7915	3.4765
0.6250	0.6484	8.0484	1.1137	0.2452	16.9051	3.7217
0.7500	0.5946	7.4111	5.8185	1.2810	22.7236	5.0026
0.8750	0.5453	6.8104	10.2669	2.2603	32.9905	7.2629
1.0000	0.5000	6.2452	11.7519	2.5872	44.7424	9.8501
1.1250	0.4585	5.7143	23.7338	5.2250	68.4762	15.0751
1.2500	0.4204	5.2167	34.0650	7.4994	102.5412	22.5745
1.3750	0.3856	4.7510	52.8198	11.6283	155.3610	34.2029
1.5000	0.3536	4.3163	66.5856	14.6589	221.9466	48.8618
1.6250	0.3242	3.9113	63.6243	14.0070	285.5709	62.8687
1.7500	0.2973	3.5349	54.9308	12.0931	340.5017	74.9618
1.8750	0.2726	3.1860	43.1125	9.4913	383.6142	84.4530
2.0000	0.2500	2.8634	24.1694	5.3209	407.7836	89.7740
2.1250	0.2293	2.5660	18.1038	3.9856	425.8873	93.7595
2.2500	0.2102	2.2927	10.5047	2.3126	436.3920	96.0721
2.3750	0.1928	2.0423	5.9313	1.3058	442.3233	97.3779
2.5000	0.1768	1.8137	4.3224	0.9516	446.6456	98.3295
2.6250	0.1621	1.6058	1.6442	0.3620	448.2899	98.6915
2.7500	0.1487	1.4175	0.0000	0.0000	448.2899	98.6915
2.8750	0.1363	1.2476	0.0000	0.0000	448.2899	98.6915
3.0000	0.1250	1.0949	0.0000	0.0000	448.2899	98.6915
3.1250	0.1146	0.9582	1.2221	0.2690	449.5119	98.9605
3.2500	0.1051	0.8364	0.0000	0.0000	449.5119	98.9605
3.3750	0.0964	0.7282	0.0000	0.0000	449.5119	98.9605
3.5000	0.0884	0.6326	1.1887	0.2617	450.7006	99.2222
3.6250	0.0811	0.5484	1.2643	0.2783	451.9649	99.5005
3.7500	0.0743	0.4744	2.2688	0.4995	454.2337	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	454.2337	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	454.2337	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	454.2337	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	454.2337	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	454.2337	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	454.2337	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C36\_R3S1

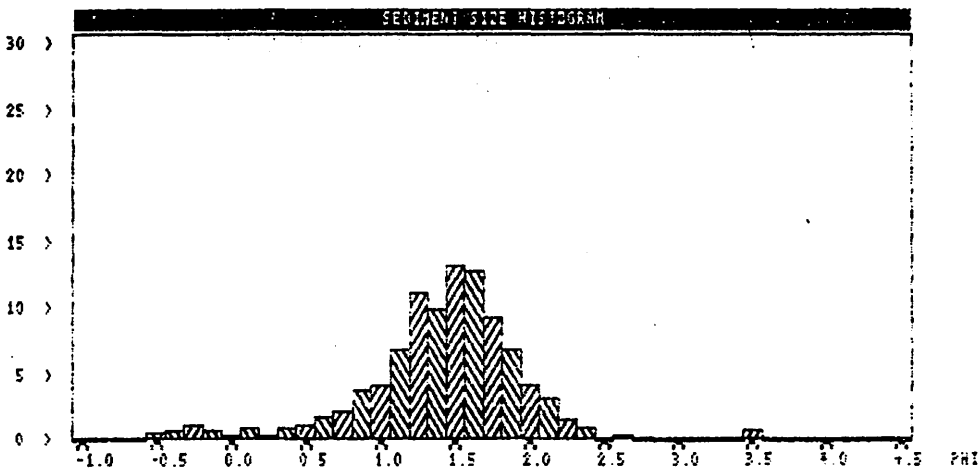
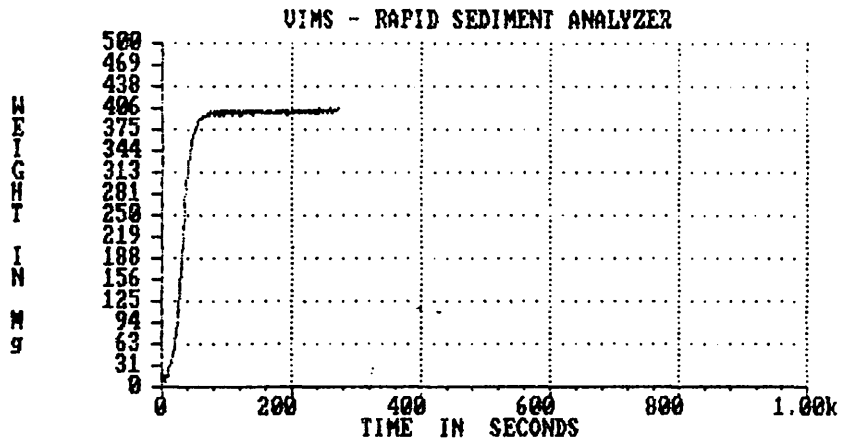
CORE 36 R-3 S-1 0-1.03M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
644.0514 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
1.3347 0.5615 -0.6213 5.5305 M1 M2 M3 M4 (phi)  
1.3647 1.4034 0.5009 -0.2003 0.6295 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	2.1630	0.5585	2.1630	0.5585
-0.3750	1.2968	14.5884	2.8834	0.7445	5.0464	1.3031
-0.2500	1.1892	13.6217	4.7263	1.2204	9.7728	2.5235
-0.1250	1.0905	12.6995	3.1157	0.8045	12.8884	3.3280
0.0000	1.0000	11.8208	1.4343	0.3704	14.3227	3.6983
0.1250	0.9170	10.9848	3.5547	0.9179	17.8774	4.6162
0.2500	0.8409	10.1905	1.7558	0.4534	19.6333	5.0696
0.3750	0.7711	9.4370	3.7391	0.9655	23.3724	6.0351
0.5000	0.7071	8.7233	4.3781	1.1305	27.7504	7.1655
0.6250	0.6484	8.0484	6.9334	1.7903	34.6838	8.9558
0.7500	0.5946	7.4111	8.7204	2.2517	43.4042	11.2075
0.8750	0.5453	6.8104	14.8248	3.8280	58.2290	15.0355
1.0000	0.5000	6.2452	16.4260	4.2414	74.6549	19.2769
1.1250	0.4585	5.7143	26.6393	6.8786	101.2942	26.1555
1.2500	0.4204	5.2167	42.6899	11.0231	143.9841	37.1786
1.3750	0.3856	4.7510	38.1145	9.8417	182.0986	47.0202
1.5000	0.3536	4.3163	50.8394	13.1274	232.9380	60.1476
1.6250	0.3242	3.9113	48.8099	12.6033	281.7479	72.7510
1.7500	0.2973	3.5349	35.6088	9.1947	317.3567	81.9456
1.8750	0.2726	3.1860	26.7658	6.9113	344.1225	88.8569
2.0000	0.2500	2.8634	15.8768	4.0996	359.9993	92.9565
2.1250	0.2293	2.5660	12.5712	3.2460	372.5705	96.2025
2.2500	0.2102	2.2927	6.1751	1.5945	378.7456	97.7970
2.3750	0.1928	2.0423	3.7504	0.9684	382.4960	98.7654
2.5000	0.1768	1.8137	0.1770	0.0457	382.6730	98.8112
2.6250	0.1621	1.6058	1.7717	0.4575	384.4447	99.2686
2.7500	0.1487	1.4175	0.0000	0.0000	384.4447	99.2686
2.8750	0.1363	1.2476	0.0000	0.0000	384.4447	99.2686
3.0000	0.1250	1.0949	0.0000	0.0000	384.4447	99.2686
3.1250	0.1146	0.9582	0.0000	0.0000	384.4447	99.2686
3.2500	0.1051	0.8364	0.0000	0.0000	384.4447	99.2686
3.3750	0.0964	0.7282	0.0000	0.0000	384.4447	99.2686
3.5000	0.0884	0.6326	2.7575	0.7120	387.2023	99.9807
3.6250	0.0811	0.5484	0.0749	0.0193	387.2772	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	387.2772	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	387.2772	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	387.2772	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	387.2772	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	387.2772	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	387.2772	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	387.2772	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C36\_R3S2

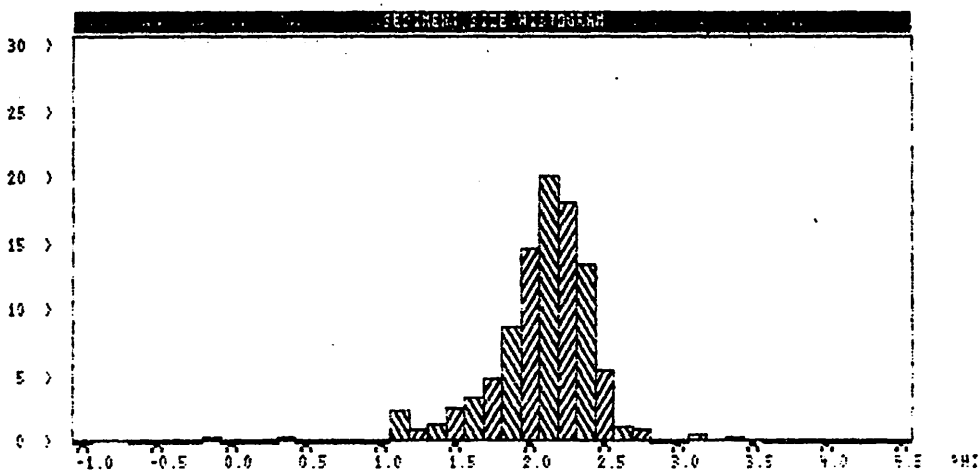
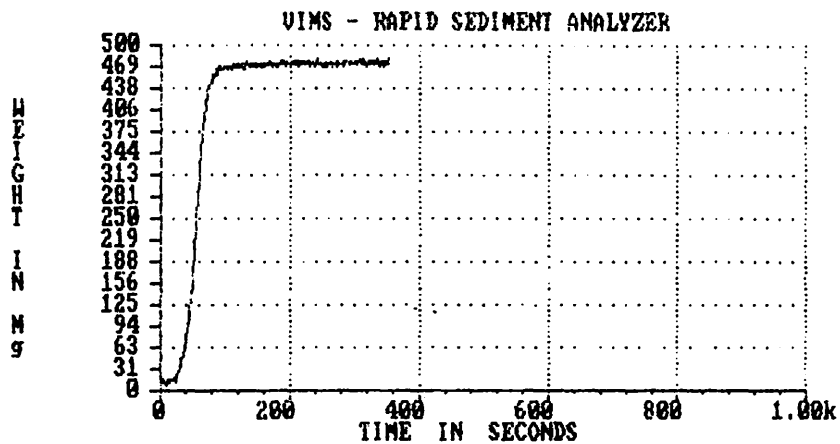
CORE 36 R-3 S-2 1.03-1.36M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
761.1873    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.0028    0.4144    -2.0351    14.1944    M1 M2 M3 M4 (phi)  
2.0327    2.0627    0.3221    -0.2386    0.3285    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.8842	0.1892	0.8842	0.1892
-0.7500	1.6818	17.7631	0.6378	0.1365	1.5220	0.3257
-0.6250	1.5422	16.6582	0.0560	0.0120	1.5780	0.3376
-0.5000	1.4142	15.6003	0.0000	0.0000	1.5780	0.3376
-0.3750	1.2968	14.5884	0.0000	0.0000	1.5780	0.3376
-0.2500	1.1892	13.6217	0.0000	0.0000	1.5780	0.3376
-0.1250	1.0905	12.6995	1.7288	0.3699	3.3068	0.7075
0.0000	1.0000	11.8208	0.0000	0.0000	3.3068	0.7075
0.1250	0.9170	10.9848	0.0000	0.0000	3.3068	0.7075
0.2500	0.8409	10.1905	0.0000	0.0000	3.3068	0.7075
0.3750	0.7711	9.4370	2.0158	0.4313	5.3226	1.1389
0.5000	0.7071	8.7233	0.0000	0.0000	5.3226	1.1389
0.6250	0.6484	8.0484	0.0000	0.0000	5.3226	1.1389
0.7500	0.5946	7.4111	0.0000	0.0000	5.3226	1.1389
0.8750	0.5453	6.8104	0.0000	0.0000	5.3226	1.1389
1.0000	0.5000	6.2452	0.0000	0.0000	5.3226	1.1389
1.1250	0.4585	5.7143	11.4889	2.4583	16.8115	3.5971
1.2500	0.4204	5.2167	4.5479	0.9731	21.3594	4.5702
1.3750	0.3856	4.7510	6.7475	1.4437	28.1069	6.0140
1.5000	0.3536	4.3163	12.4577	2.6655	40.5646	8.6795
1.6250	0.3242	3.9113	15.4023	3.2956	55.9669	11.9751
1.7500	0.2973	3.5349	22.5954	4.8347	78.5623	16.8098
1.8750	0.2726	3.1860	40.8638	8.7435	119.4261	25.5533
2.0000	0.2500	2.8634	67.3739	14.4158	186.8000	39.9692
2.1250	0.2293	2.5660	93.4790	20.0015	280.2790	59.9707
2.2500	0.2102	2.2927	84.2539	18.0276	364.5329	77.9983
2.3750	0.1928	2.0423	62.1461	13.2973	426.6790	91.2955
2.5000	0.1768	1.8137	25.2358	5.3996	451.9147	96.6952
2.6250	0.1621	1.6058	5.3103	1.1362	457.2251	97.8314
2.7500	0.1487	1.4175	4.9758	1.0647	462.2009	98.8961
2.8750	0.1363	1.2476	0.0000	0.0000	462.2009	98.8961
3.0000	0.1250	1.0949	0.0000	0.0000	462.2009	98.8961
3.1250	0.1146	0.9582	2.1978	0.4703	464.3987	99.3663
3.2500	0.1051	0.8364	0.3686	0.0789	464.7673	99.4452
3.3750	0.0964	0.7282	1.5191	0.3250	466.2863	99.7702
3.5000	0.0884	0.6326	1.0739	0.2298	467.3603	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	467.3603	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	467.3603	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	467.3603	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	467.3603	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	467.3603	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	467.3603	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	467.3603	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	467.3603	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C36\_R4S1

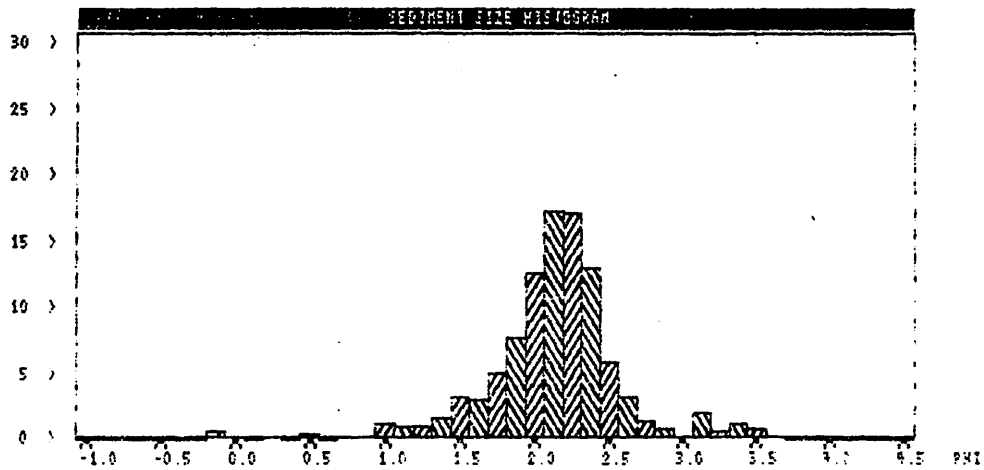
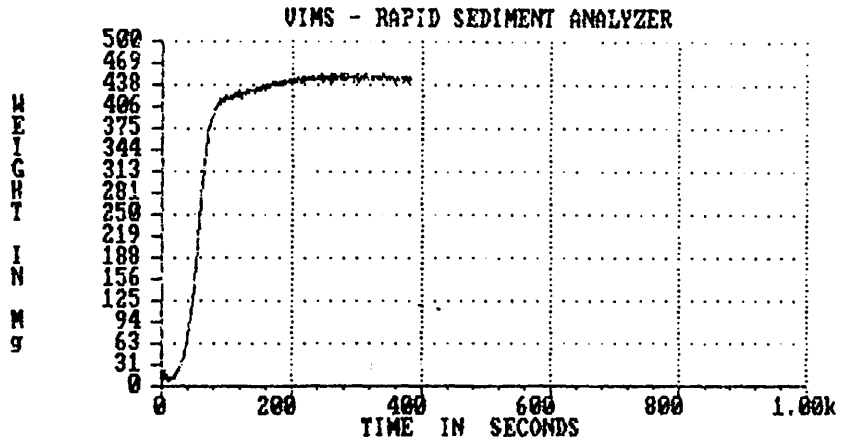
CORE 36 R-4 S-1 0-1.0M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
711.8257 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.0567 0.4833 -0.7912 7.3256 M1 M2 M3 M4 (phi)  
2.0588 2.0921 0.3997 -0.1144 0.4199 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0694	0.0158	0.0694	0.0158
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0694	0.0158
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0694	0.0158
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0694	0.0158
-0.3750	1.2968	14.5884	0.1107	0.0252	0.1800	0.0409
-0.2500	1.1892	13.6217	0.0000	0.0000	0.1800	0.0409
-0.1250	1.0905	12.6995	2.0487	0.4658	2.2287	0.5068
0.0000	1.0000	11.8208	1.1307	0.2571	3.3594	0.7639
0.1250	0.9170	10.9848	0.0000	0.0000	3.3594	0.7639
0.2500	0.8409	10.1905	1.0126	0.2302	4.3721	0.9941
0.3750	0.7711	9.4370	0.0000	0.0000	4.3721	0.9941
0.5000	0.7071	8.7233	1.6181	0.3679	5.9902	1.3620
0.6250	0.6484	8.0484	0.1777	0.0404	6.1678	1.4024
0.7500	0.5946	7.4111	0.8900	0.2024	7.0578	1.6048
0.8750	0.5453	6.8104	0.3521	0.0801	7.4099	1.6848
1.0000	0.5000	6.2452	5.0548	1.1493	12.4648	2.8342
1.1250	0.4585	5.7143	4.6920	1.0668	17.1568	3.9010
1.2500	0.4204	5.2167	4.5120	1.0259	21.6687	4.9269
1.3750	0.3856	4.7510	6.7834	1.5424	28.4522	6.4693
1.5000	0.3536	4.3163	13.6280	3.0987	42.0802	9.5680
1.6250	0.3242	3.9113	12.9836	2.9521	55.0638	12.5201
1.7500	0.2973	3.5349	21.6487	4.9224	76.7124	17.4425
1.8750	0.2726	3.1860	33.3734	7.5883	110.0858	25.0307
2.0000	0.2500	2.8634	54.5360	12.4001	164.6219	37.4309
2.1250	0.2293	2.5660	75.0624	17.0673	239.6843	54.4982
2.2500	0.2102	2.2927	74.7799	17.0031	314.4642	71.5012
2.3750	0.1928	2.0423	56.8414	12.9243	371.3056	84.4255
2.5000	0.1768	1.8137	25.3258	5.7585	396.6314	90.1840
2.6250	0.1621	1.6058	13.6559	3.1050	410.2873	93.2890
2.7500	0.1487	1.4175	6.1050	1.3881	416.3923	94.6771
2.8750	0.1363	1.2476	3.0228	0.6873	419.4152	95.3645
3.0000	0.1250	1.0949	0.6662	0.1515	420.0814	95.5159
3.1250	0.1146	0.9582	9.0149	2.0498	429.0963	97.5657
3.2500	0.1051	0.8364	2.3904	0.5435	431.4866	98.1092
3.3750	0.0964	0.7282	4.9159	1.1177	436.4025	99.2269
3.5000	0.0884	0.6326	3.0226	0.6873	439.4251	99.9142
3.6250	0.0811	0.5484	0.3773	0.0858	439.8024	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	439.8024	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	439.8024	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	439.8024	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	439.8024	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	439.8024	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	439.8024	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	439.8024	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C37\_S1

CORE 37 S-1 0-1.73M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

689.8872 Dry Sand Fraction Weight (mg)

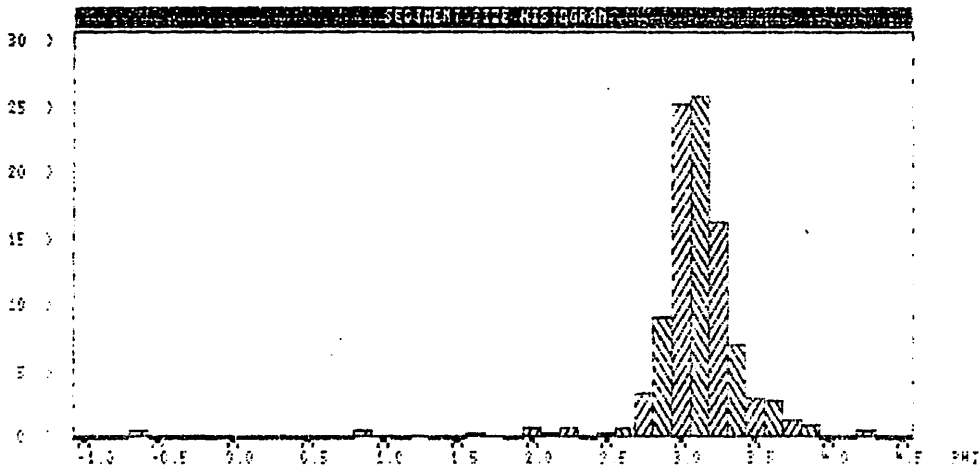
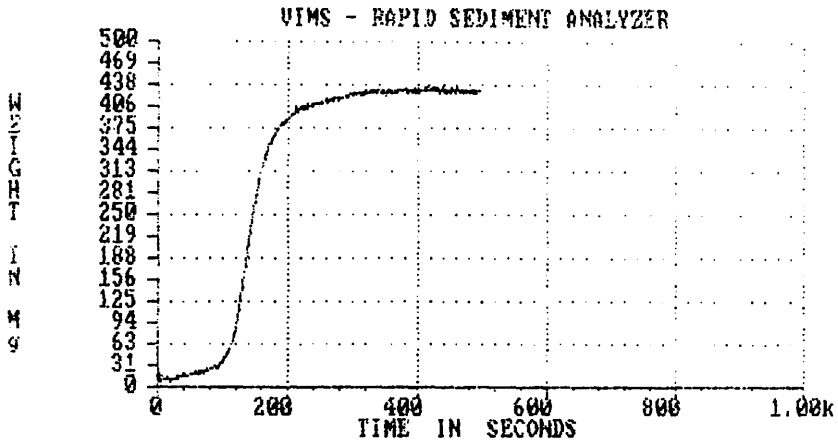
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$

3.0093 0.4367 -4.0778 32.0784 M1 M2 M3 M4 (phi)

3.0452 3.0361 0.2386 0.0709 0.1906 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	2.1100	0.5004	2.1100	0.5004
-0.5000	1.4142	15.6003	0.0000	0.0000	2.1100	0.5004
-0.3750	1.2968	14.5884	0.0413	0.0098	2.1513	0.5102
-0.2500	1.1892	13.6217	0.0000	0.0000	2.1513	0.5102
-0.1250	1.0905	12.6995	0.0000	0.0000	2.1513	0.5102
0.0000	1.0000	11.8208	0.0000	0.0000	2.1513	0.5102
0.1250	0.9170	10.9848	0.0000	0.0000	2.1513	0.5102
0.2500	0.8409	10.1905	0.0000	0.0000	2.1513	0.5102
0.3750	0.7711	9.4370	0.0000	0.0000	2.1513	0.5102
0.5000	0.7071	8.7233	0.0000	0.0000	2.1513	0.5102
0.6250	0.6484	8.0484	0.0000	0.0000	2.1513	0.5102
0.7500	0.5946	7.4111	0.0000	0.0000	2.1513	0.5102
0.8750	0.5453	6.8104	2.0357	0.4828	4.1871	0.9930
1.0000	0.5000	6.2452	0.4764	0.1130	4.6635	1.1060
1.1250	0.4585	5.7143	0.0000	0.0000	4.6635	1.1060
1.2500	0.4204	5.2167	1.0546	0.2501	5.7181	1.3561
1.3750	0.3856	4.7510	0.0000	0.0000	5.7181	1.3561
1.5000	0.3536	4.3163	0.0000	0.0000	5.7181	1.3561
1.6250	0.3242	3.9113	1.1794	0.2797	6.8975	1.6357
1.7500	0.2973	3.5349	0.8827	0.2093	7.7802	1.8451
1.8750	0.2726	3.1860	0.0000	0.0000	7.7802	1.8451
2.0000	0.2500	2.8634	3.2134	0.7621	10.9936	2.6071
2.1250	0.2293	2.5660	1.7038	0.4041	12.6974	3.0112
2.2500	0.2102	2.2927	3.3612	0.7971	16.0586	3.8083
2.3750	0.1928	2.0423	0.0000	0.0000	16.0586	3.8083
2.5000	0.1768	1.8137	1.8992	0.4504	17.9578	4.2587
2.6250	0.1621	1.6058	3.6130	0.8568	21.5709	5.1155
2.7500	0.1487	1.4175	14.4165	3.4189	35.9874	8.5344
2.8750	0.1363	1.2476	38.4921	9.1284	74.4795	17.6628
3.0000	0.1250	1.0949	105.0776	24.9191	179.5571	42.5819
3.1250	0.1146	0.9582	108.2815	25.6789	287.8386	68.2608
3.2500	0.1051	0.8364	67.7913	16.0767	355.6299	84.3375
3.3750	0.0964	0.7282	29.7274	7.0499	385.3573	91.3874
3.5000	0.0884	0.6326	12.2105	2.8957	397.5678	94.2831
3.6250	0.0811	0.5484	12.1682	2.8857	409.7360	97.1688
3.7500	0.0743	0.4744	5.6746	1.3457	415.4106	98.5145
3.8750	0.0682	0.4098	4.1602	0.9866	419.5708	99.5011
4.0000	0.0625	0.3533	0.0000	0.0000	419.5708	99.5011
4.1250	0.0573	0.3043	0.0000	0.0000	419.5708	99.5011
4.2500	0.0526	0.2617	2.1038	0.4989	421.6746	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	421.6746	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	421.6746	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C37\_52

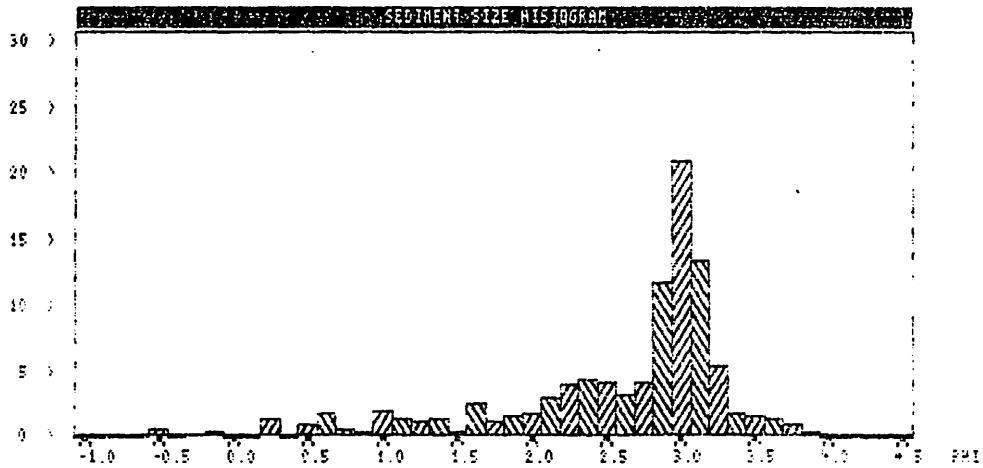
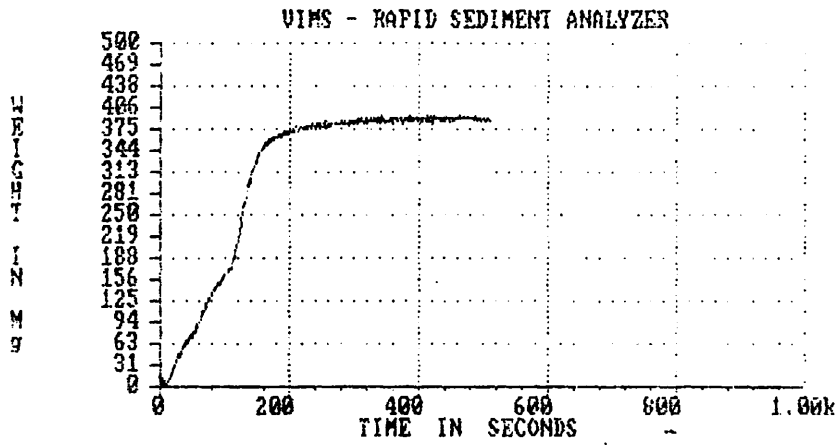
CORE 37 S-2 1.73-2.00M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
618.5871 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.5028 0.8101 -1.4643 4.7888 M1 M2 M3 M4 (phi)  
2.5519 2.8289 0.7463 -0.6221 0.5304 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	2.0985	0.5449	2.0985	0.5449
-0.3750	1.2968	14.5884	0.0000	0.0000	2.0985	0.5449
-0.2500	1.1892	13.6217	0.9475	0.2460	3.0460	0.7909
-0.1250	1.0905	12.6995	1.2723	0.3303	4.3183	1.1212
0.0000	1.0000	11.8208	0.0000	0.0000	4.3183	1.1212
0.1250	0.9170	10.9848	0.0000	0.0000	4.3183	1.1212
0.2500	0.8409	10.1905	4.9324	1.2807	9.2507	2.4019
0.3750	0.7711	9.4370	0.0000	0.0000	9.2507	2.4019
0.5000	0.7071	8.7233	3.4000	0.8828	12.6507	3.2847
0.6250	0.6484	8.0484	6.5840	1.7095	19.2347	4.9942
0.7500	0.5946	7.4111	2.4008	0.6233	21.6354	5.6175
0.8750	0.5453	6.8104	1.6972	0.4407	23.3326	6.0582
1.0000	0.5000	6.2452	7.4583	1.9365	30.7909	7.9947
1.1250	0.4585	5.7143	5.0872	1.3209	35.8782	9.3156
1.2500	0.4204	5.2167	4.7427	1.2314	40.6209	10.5470
1.3750	0.3856	4.7510	5.5909	1.4516	46.2118	11.9986
1.5000	0.3536	4.3163	1.0970	0.2848	47.3087	12.2834
1.6250	0.3242	3.9113	9.8004	2.5446	57.1092	14.8281
1.7500	0.2973	3.5349	4.8123	1.2495	61.9215	16.0776
1.8750	0.2726	3.1860	6.2631	1.6262	68.1846	17.7037
2.0000	0.2500	2.8634	6.4740	1.6809	74.6585	19.3847
2.1250	0.2293	2.5660	11.3515	2.9474	86.0101	22.3320
2.2500	0.2102	2.2927	15.4908	4.0221	101.5009	26.3541
2.3750	0.1928	2.0423	17.2504	4.4790	118.7513	30.8331
2.5000	0.1768	1.8137	16.2789	4.2267	135.0302	35.0598
2.6250	0.1621	1.6058	12.6512	3.2848	147.6814	38.3446
2.7500	0.1487	1.4175	16.4807	4.2791	164.1620	42.6237
2.8750	0.1363	1.2476	44.9872	11.6807	209.1492	54.3044
3.0000	0.1250	1.0949	79.8733	20.7386	289.0225	75.0431
3.1250	0.1146	0.9582	51.0385	13.2519	340.0610	88.2949
3.2500	0.1051	0.8364	20.8762	5.4204	360.9372	93.7153
3.3750	0.0964	0.7282	7.0796	1.8382	368.0168	95.5535
3.5000	0.0884	0.6326	5.9562	1.5465	373.9730	97.1000
3.6250	0.0811	0.5484	5.4971	1.4273	379.4701	98.5273
3.7500	0.0743	0.4744	4.0204	1.0439	383.4905	99.5712
3.8750	0.0682	0.4098	1.6516	0.4288	385.1422	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	385.1422	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	385.1422	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	385.1422	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	385.1422	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	385.1422	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C37\_S3

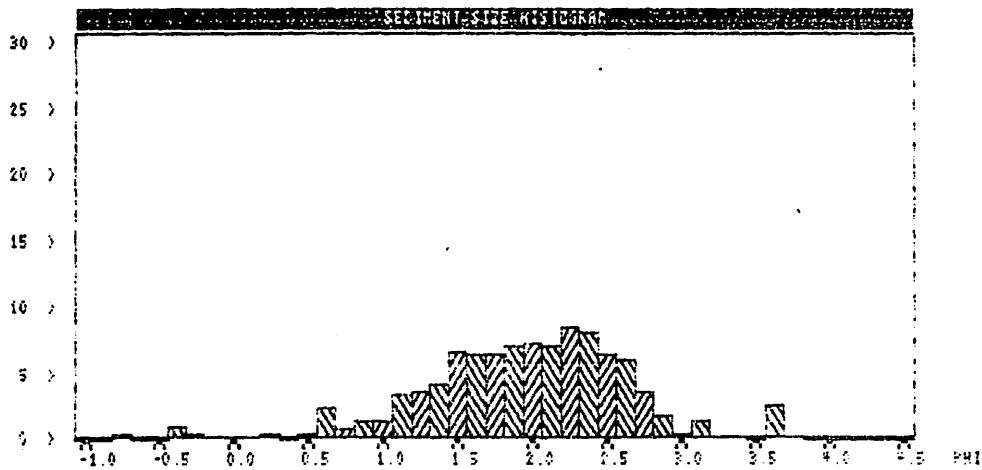
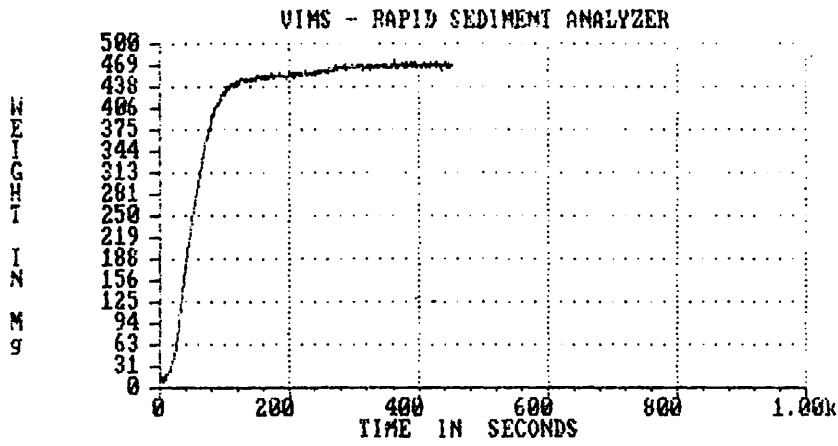
CORE 37 S-3 2.00-2.82M

VA BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
749.4345    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
1.8819    0.7162 -0.5098    4.3231    M1 M2 M3 M4 (phi)  
1.9010    1.9374    0.6562 -0.1316    0.5332    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.2863	0.2813	1.2863	0.2813
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2863	0.2813
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2863	0.2813
-0.3750	1.2968	14.5884	4.3617	0.9537	5.6481	1.2350
-0.2500	1.1892	13.6217	1.9015	0.4158	7.5496	1.6508
-0.1250	1.0905	12.6995	1.1552	0.2526	8.7048	1.9033
0.0000	1.0000	11.8208	0.7292	0.1594	9.4340	2.0628
0.1250	0.9170	10.9848	0.7000	0.1531	10.1339	2.2158
0.2500	0.8409	10.1905	2.0942	0.4579	12.2281	2.6737
0.3750	0.7711	9.4370	0.0000	0.0000	12.2281	2.6737
0.5000	0.7071	8.7233	1.5730	0.3439	13.8011	3.0177
0.6250	0.6484	8.0484	10.7009	2.3398	24.5020	5.3575
0.7500	0.5946	7.4111	3.1542	0.6897	27.6562	6.0472
0.8750	0.5453	6.8104	6.4506	1.4104	34.1068	7.4576
1.0000	0.5000	6.2452	6.6177	1.4470	40.7245	8.9046
1.1250	0.4585	5.7143	15.1326	3.3088	55.8570	12.2134
1.2500	0.4204	5.2167	16.3457	3.5741	72.2028	15.7875
1.3750	0.3856	4.7510	18.8428	4.1201	91.0456	19.9076
1.5000	0.3536	4.3163	30.6451	6.7007	121.6907	26.6083
1.6250	0.3242	3.9113	29.1530	6.3744	150.8437	32.9828
1.7500	0.2973	3.5349	29.4307	6.4352	180.2744	39.4179
1.8750	0.2726	3.1860	31.7191	6.9356	211.9935	46.3535
2.0000	0.2500	2.8634	33.4312	7.3099	245.4247	53.6634
2.1250	0.2293	2.5660	31.9080	6.9769	277.3327	60.6403
2.2500	0.2102	2.2927	38.2006	8.3528	315.5333	68.9930
2.3750	0.1928	2.0423	36.9902	8.0881	352.5234	77.0811
2.5000	0.1768	1.8137	29.6094	6.4742	382.1328	83.5554
2.6250	0.1621	1.6058	27.8754	6.0951	410.0082	89.6505
2.7500	0.1487	1.4175	16.2642	3.5563	426.2724	93.2067
2.8750	0.1363	1.2476	8.5305	1.8652	434.8029	95.0720
3.0000	0.1250	1.0949	1.8910	0.4135	436.6939	95.4854
3.1250	0.1146	0.9582	6.1520	1.3452	442.8459	96.8306
3.2500	0.1051	0.8364	0.7168	0.1567	443.5627	96.9873
3.3750	0.0964	0.7282	0.9299	0.2033	444.4926	97.1907
3.5000	0.0884	0.6326	0.0000	0.0000	444.4926	97.1907
3.6250	0.0811	0.5484	11.8729	2.5961	456.3655	99.7867
3.7500	0.0743	0.4744	0.7351	0.1607	457.1006	99.9475
3.8750	0.0682	0.4098	0.0000	0.0000	457.1006	99.9475
4.0000	0.0625	0.3533	0.0000	0.0000	457.1006	99.9475
4.1250	0.0573	0.3043	0.2403	0.0525	457.3409	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	457.3409	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	457.3409	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	457.3409	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

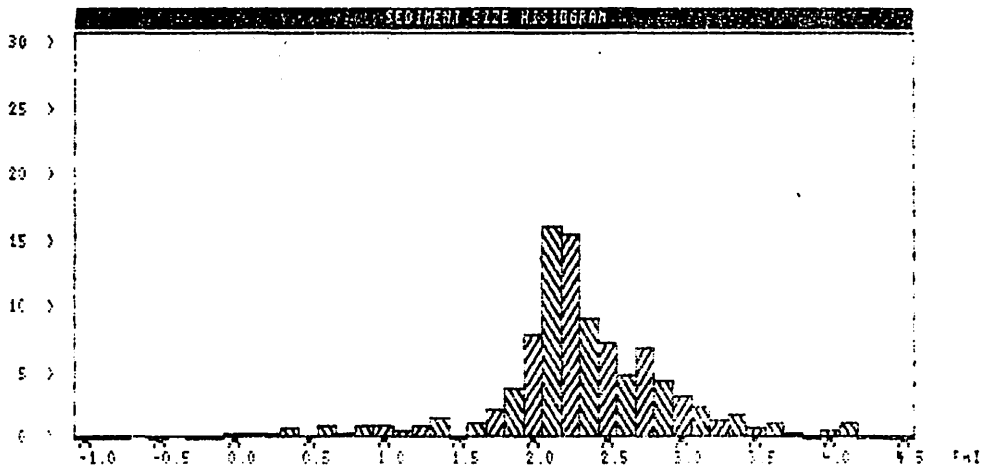
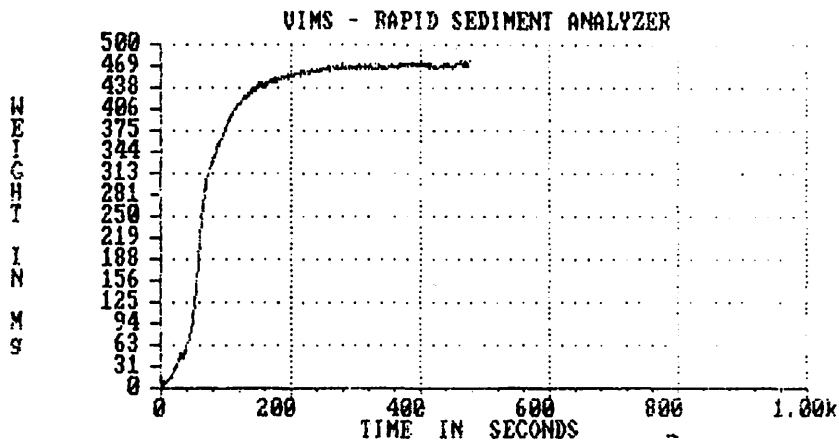


C37\_S4  
 C37\_S4  
 VABEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 762.7543    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 2.2373    0.6687    -0.6549    5.6586    M1 M2 M3 M4 (phi)  
 2.2888    2.2088    0.5911    0.0878    0.5558    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.2201	0.2606	1.2201	0.2606
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2201	0.2606
-0.3750	1.2968	14.5884	0.5083	0.1086	1.7284	0.3692
-0.2500	1.1892	13.6217	0.0000	0.0000	1.7284	0.3692
-0.1250	1.0905	12.6995	0.0000	0.0000	1.7284	0.3692
0.0000	1.0000	11.8208	1.8479	0.3947	3.5763	0.7638
0.1250	0.9170	10.9848	1.2235	0.2613	4.7998	1.0252
0.2500	0.8409	10.1905	2.1062	0.4499	6.9060	1.4750
0.3750	0.7711	9.4370	3.8858	0.8299	10.7917	2.3049
0.5000	0.7071	8.7233	0.3879	0.0828	11.1796	2.3878
0.6250	0.6484	8.0484	4.5559	0.9731	15.7355	3.3609
0.7500	0.5946	7.4111	1.8362	0.3922	17.5717	3.7530
0.8750	0.5453	6.8104	4.9989	1.0677	22.5706	4.8207
1.0000	0.5000	6.2452	4.3670	0.9327	26.9376	5.7534
1.1250	0.4585	5.7143	2.3730	0.5068	29.3106	6.2603
1.2500	0.4204	5.2167	4.8046	1.0262	34.1152	7.2865
1.3750	0.3856	4.7510	6.9313	1.4804	41.0465	8.7669
1.5000	0.3536	4.3163	0.0000	0.0000	41.0465	8.7669
1.6250	0.3242	3.9113	5.2891	1.1297	46.3356	9.8965
1.7500	0.2973	3.5349	10.6174	2.2677	56.9530	12.1642
1.8750	0.2726	3.1860	17.8306	3.8083	74.7836	15.9726
2.0000	0.2500	2.8634	36.6245	7.8224	111.4081	23.7950
2.1250	0.2293	2.5660	74.4394	15.8991	185.8475	39.6940
2.2500	0.2102	2.2927	71.9830	15.3744	257.8306	55.0684
2.3750	0.1928	2.0423	42.1672	9.0062	299.9978	64.0747
2.5000	0.1768	1.8137	33.6869	7.1950	333.6846	71.2696
2.6250	0.1621	1.6058	22.4909	4.8037	356.1756	76.0733
2.7500	0.1487	1.4175	31.7609	6.7836	387.9364	82.8570
2.8750	0.1363	1.2476	20.7949	4.4415	408.7313	87.2984
3.0000	0.1250	1.0949	14.8657	3.1751	423.5971	90.4735
3.1250	0.1146	0.9582	11.3962	2.4340	434.9933	92.9075
3.2500	0.1051	0.8364	6.3449	1.3552	441.3382	94.2627
3.3750	0.0964	0.7282	7.9906	1.7067	449.3288	95.9694
3.5000	0.0884	0.6326	3.6494	0.7795	452.9782	96.7488
3.6250	0.0811	0.5484	5.5510	1.1856	458.5292	97.9344
3.7500	0.0743	0.4744	1.4940	0.3191	460.0232	98.2535
3.8750	0.0682	0.4098	0.0000	0.0000	460.0232	98.2535
4.0000	0.0625	0.3533	2.8007	0.5982	462.8239	98.8517
4.1250	0.0573	0.3043	5.3763	1.1483	468.2002	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	468.2002	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	468.2002	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	468.2002	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C37\_S5

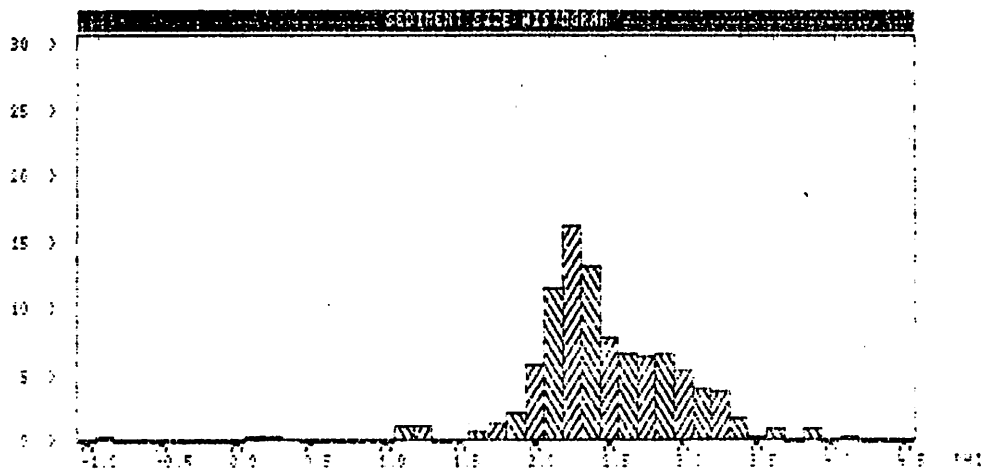
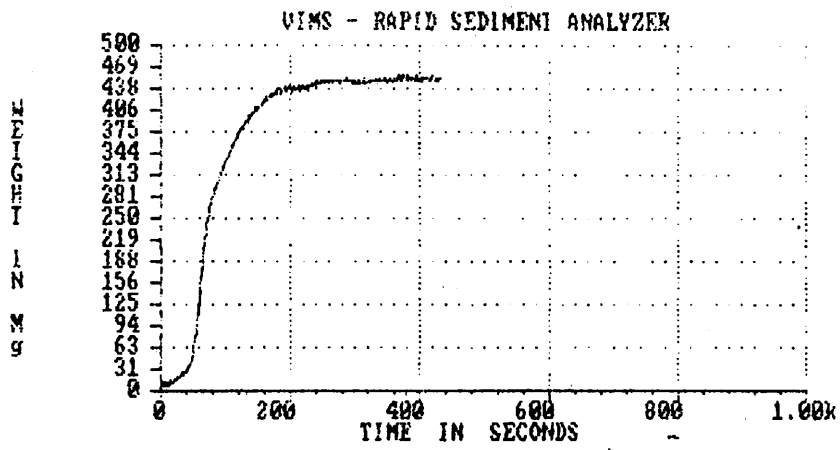
CORE 37 S-5 3.46-4.96M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
725.9290 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.3966 0.5493 -0.8877 8.3240 M1 M2 M3 M4 (phi)  
2.4228 2.3303 0.4578 0.2393 0.3396 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2737	0.2856	1.2737	0.2856
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2737	0.2856
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2737	0.2856
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2737	0.2856
-0.3750	1.2968	14.5884	0.0000	0.0000	1.2737	0.2856
-0.2500	1.1892	13.6217	0.0000	0.0000	1.2737	0.2856
-0.1250	1.0905	12.6995	0.0000	0.0000	1.2737	0.2856
0.0000	1.0000	11.8208	0.0000	0.0000	1.2737	0.2856
0.1250	0.9170	10.9848	1.5012	0.3367	2.7749	0.6223
0.2500	0.8409	10.1905	1.1861	0.2660	3.9610	0.8883
0.3750	0.7711	9.4370	0.8371	0.1877	4.7981	1.0761
0.5000	0.7071	8.7233	0.0000	0.0000	4.7981	1.0761
0.6250	0.6484	8.0484	0.0000	0.0000	4.7981	1.0761
0.7500	0.5946	7.4111	0.0000	0.0000	4.7981	1.0761
0.8750	0.5453	6.8104	0.0000	0.0000	4.7981	1.0761
1.0000	0.5000	6.2452	0.0000	0.0000	4.7981	1.0761
1.1250	0.4585	5.7143	5.4998	1.2334	10.2979	2.3095
1.2500	0.4204	5.2167	4.8497	1.0876	15.1476	3.3971
1.3750	0.3856	4.7510	0.0000	0.0000	15.1476	3.3971
1.5000	0.3536	4.3163	0.3863	0.0866	15.5338	3.4838
1.6250	0.3242	3.9113	3.7697	0.8454	19.3035	4.3292
1.7500	0.2973	3.5349	6.1680	1.3833	25.4715	5.7125
1.8750	0.2726	3.1860	10.1169	2.2689	35.5884	7.9814
2.0000	0.2500	2.8634	26.3403	5.9073	61.9287	13.8887
2.1250	0.2293	2.5660	51.5854	11.5690	113.5141	25.4578
2.2500	0.2102	2.2927	71.7527	16.0920	185.2668	41.5497
2.3750	0.1928	2.0423	58.6715	13.1582	243.9383	54.7079
2.5000	0.1768	1.8137	35.3340	7.9243	279.2723	62.6323
2.6250	0.1621	1.6058	29.3968	6.5928	308.6691	69.2251
2.7500	0.1487	1.4175	28.6069	6.4157	337.2760	75.6408
2.8750	0.1363	1.2476	29.5458	6.6262	366.8218	82.2670
3.0000	0.1250	1.0949	23.8912	5.3581	390.7130	87.6251
3.1250	0.1146	0.9582	17.8920	4.0126	408.6050	91.6377
3.2500	0.1051	0.8364	17.1653	3.8497	425.7703	95.4873
3.3750	0.0964	0.7282	7.6183	1.7085	433.3886	97.1959
3.5000	0.0884	0.6326	2.0056	0.4498	435.3942	97.6457
3.6250	0.0811	0.5484	4.7517	1.0657	440.1458	98.7113
3.7500	0.0743	0.4744	0.0000	0.0000	440.1458	98.7113
3.8750	0.0682	0.4098	4.5611	1.0229	444.7069	99.7342
4.0000	0.0625	0.3533	0.0000	0.0000	444.7069	99.7342
4.1250	0.0573	0.3043	1.1850	0.2658	445.8919	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	445.8919	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	445.8919	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	445.8919	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C38\_S1

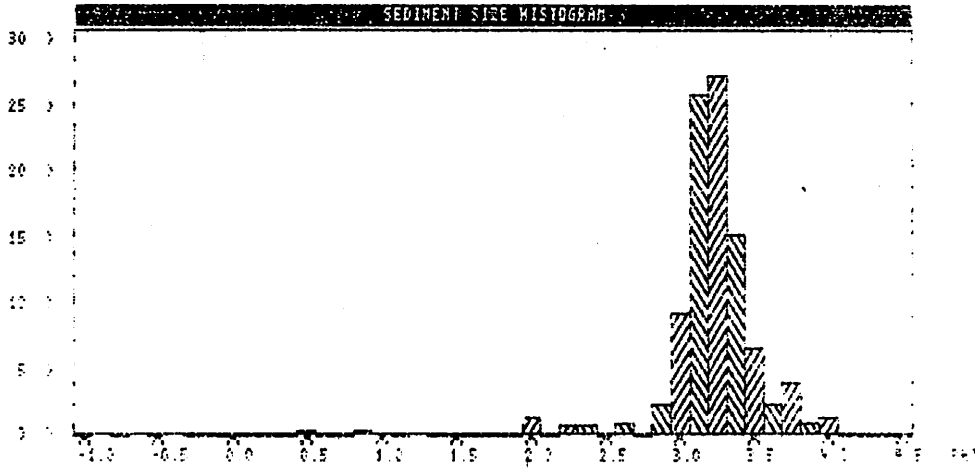
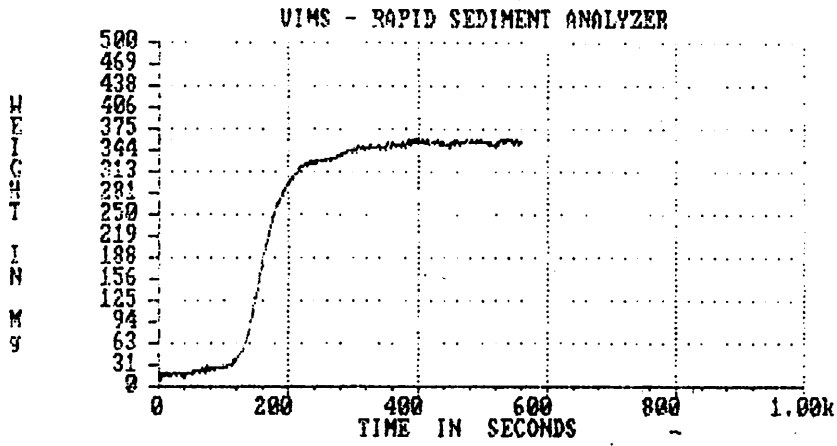
CORE 38 S-1 0-1.03M

VA BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 568.8337    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 3.1233    0.4563    -4.2603    31.2008    M1 M2 M3 M4 (phi)  
 3.1713    3.1594    0.2602    0.0112    0.2172    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.2703	0.0788	0.2703	0.0788
-0.7500	1.6818	17.7631	0.0000	0.0000	0.2703	0.0788
-0.6250	1.5422	16.6582	0.8076	0.2355	1.0779	0.3143
-0.5000	1.4142	15.6003	0.0000	0.0000	1.0779	0.3143
-0.3750	1.2968	14.5884	0.5952	0.1735	1.6731	0.4878
-0.2500	1.1892	13.6217	0.0000	0.0000	1.6731	0.4878
-0.1250	1.0905	12.6995	0.0000	0.0000	1.6731	0.4878
0.0000	1.0000	11.8208	0.0000	0.0000	1.6731	0.4878
0.1250	0.9170	10.9848	0.0000	0.0000	1.6731	0.4878
0.2500	0.8409	10.1905	0.0000	0.0000	1.6731	0.4878
0.3750	0.7711	9.4370	0.0000	0.0000	1.6731	0.4878
0.5000	0.7071	8.7233	0.9551	0.2785	2.6283	0.7663
0.6250	0.6484	8.0484	0.0000	0.0000	2.6283	0.7663
0.7500	0.5946	7.4111	0.0000	0.0000	2.6283	0.7663
0.8750	0.5453	6.8104	1.2594	0.3672	3.8877	1.1335
1.0000	0.5000	6.2452	0.4691	0.1368	4.3568	1.2703
1.1250	0.4585	5.7143	0.0000	0.0000	4.3568	1.2703
1.2500	0.4204	5.2167	0.7163	0.2088	5.0731	1.4791
1.3750	0.3856	4.7510	0.0000	0.0000	5.0731	1.4791
1.5000	0.3536	4.3163	0.0000	0.0000	5.0731	1.4791
1.6250	0.3242	3.9113	0.0000	0.0000	5.0731	1.4791
1.7500	0.2973	3.5349	0.0954	0.0278	5.1685	1.5069
1.8750	0.2726	3.1860	0.0000	0.0000	5.1685	1.5069
2.0000	0.2500	2.8634	4.7246	1.3775	9.8932	2.8844
2.1250	0.2293	2.5660	0.0000	0.0000	9.8932	2.8844
2.2500	0.2102	2.2927	2.8736	0.8378	12.7668	3.7223
2.3750	0.1928	2.0423	2.3168	0.6755	15.0836	4.3977
2.5000	0.1768	1.8137	0.0000	0.0000	15.0836	4.3977
2.6250	0.1621	1.6058	3.3165	0.9669	18.4001	5.3647
2.7500	0.1487	1.4175	0.1178	0.0344	18.5180	5.3990
2.8750	0.1363	1.2476	8.1715	2.3825	26.6894	7.7815
3.0000	0.1250	1.0949	31.7822	9.2663	58.4716	17.0478
3.1250	0.1146	0.9582	87.5727	25.5324	146.0443	42.5803
3.2500	0.1051	0.8364	92.5852	26.9939	238.6295	69.5741
3.3750	0.0964	0.7282	52.1493	15.2045	290.7788	84.7786
3.5000	0.0884	0.6326	22.3940	6.5291	313.1728	91.3078
3.6250	0.0811	0.5484	8.4656	2.4682	321.6383	93.7760
3.7500	0.0743	0.4744	13.5137	3.9400	335.1521	97.7160
3.8750	0.0682	0.4098	3.1609	0.9216	338.3130	98.6376
4.0000	0.0625	0.3533	4.6729	1.3624	342.9859	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	342.9859	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	342.9859	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	342.9859	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	342.9859	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



## C38\_S2

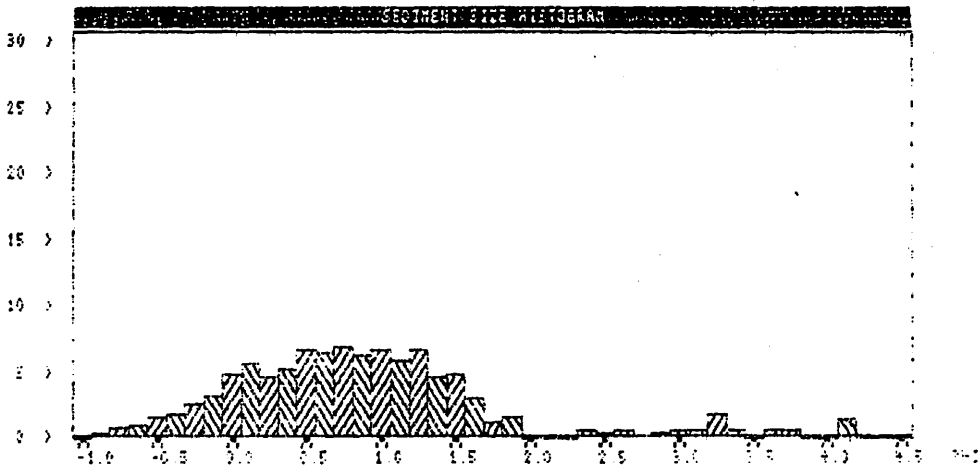
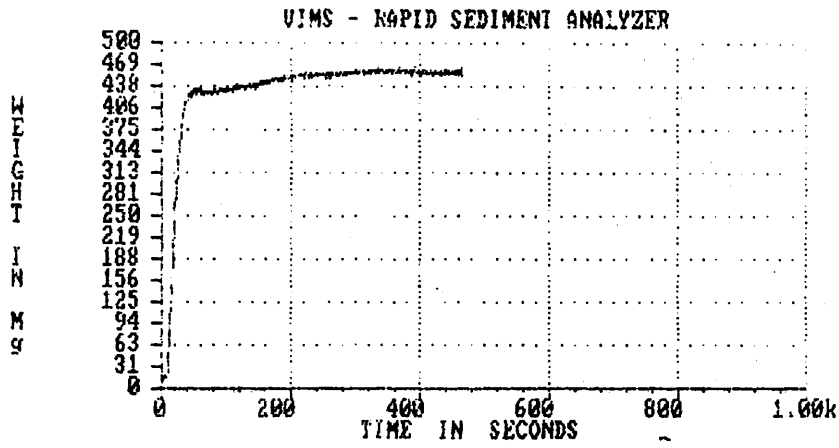
CORE 38 S-2 1.03-1.11M

VABEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
 742.7746    Dry Sand Fraction Weight (mg)  
 2.65           Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 0.8273    0.9289    1.2555    5.2395    M1 M2 M3 M4 (phi)  
 0.7200    0.7231    0.8944    0.1777    1.2794    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.8272	0.4057	1.8272	0.4057
-0.7500	1.6818	17.7631	3.3442	0.7426	5.1714	1.1483
-0.6250	1.5422	16.6582	3.9278	0.8722	9.0992	2.0204
-0.5000	1.4142	15.6003	6.9226	1.5371	16.0218	3.5576
-0.3750	1.2968	14.5884	8.2280	1.8270	24.2499	5.3846
-0.2500	1.1892	13.6217	11.8027	2.6208	36.0526	8.0053
-0.1250	1.0905	12.6995	14.4065	3.1989	50.4591	11.2043
0.0000	1.0000	11.8208	22.0607	4.8985	72.5198	16.1027
0.1250	0.9170	10.9848	25.4204	5.6445	97.9402	21.7473
0.2500	0.8409	10.1905	20.6741	4.5906	118.6143	26.3379
0.3750	0.7711	9.4370	23.1427	5.1388	141.7570	31.4766
0.5000	0.7071	8.7233	29.9091	6.6412	171.6660	38.1178
0.6250	0.6484	8.0484	29.3713	6.5218	201.0373	44.6396
0.7500	0.5946	7.4111	30.7675	6.8318	231.8049	51.4714
0.8750	0.5453	6.8104	28.4563	6.3186	260.2611	57.7900
1.0000	0.5000	6.2452	29.4883	6.5478	289.7495	64.3378
1.1250	0.4585	5.7143	25.9530	5.7628	315.7025	70.1006
1.2500	0.4204	5.2167	30.2547	6.7179	345.9572	76.8185
1.3750	0.3856	4.7510	20.9489	4.6516	366.9061	81.4701
1.5000	0.3536	4.3163	22.0420	4.8943	388.9481	86.3645
1.6250	0.3242	3.9113	13.6550	3.0320	402.6031	89.3965
1.7500	0.2973	3.5349	4.9999	1.1102	407.6030	90.5067
1.8750	0.2726	3.1860	7.1124	1.5793	414.7154	92.0860
2.0000	0.2500	2.8634	0.0000	0.0000	414.7154	92.0860
2.1250	0.2293	2.5660	0.0000	0.0000	414.7154	92.0860
2.2500	0.2102	2.2927	0.0000	0.0000	414.7154	92.0860
2.3750	0.1928	2.0423	2.4320	0.5400	417.1474	92.6260
2.5000	0.1768	1.8137	1.4054	0.3121	418.5527	92.9381
2.6250	0.1621	1.6058	2.2556	0.5008	420.8083	93.4389
2.7500	0.1487	1.4175	0.6482	0.1439	421.4565	93.5829
2.8750	0.1363	1.2476	2.0006	0.4442	423.4571	94.0271
3.0000	0.1250	1.0949	2.2142	0.4917	425.6713	94.5187
3.1250	0.1146	0.9582	2.2223	0.4934	427.8936	95.0122
3.2500	0.1051	0.8364	8.2948	1.8418	436.1884	96.8540
3.3750	0.0964	0.7282	2.6025	0.5779	438.7909	97.4319
3.5000	0.0884	0.6326	0.0000	0.0000	438.7909	97.4319
3.6250	0.0811	0.5484	2.2237	0.4938	441.0146	97.9257
3.7500	0.0743	0.4744	2.7980	0.6213	443.8126	98.5469
3.8750	0.0682	0.4098	0.0000	0.0000	443.8126	98.5469
4.0000	0.0625	0.3533	0.0000	0.0000	443.8126	98.5469
4.1250	0.0573	0.3043	6.5440	1.4531	450.3566	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	450.3566	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	450.3566	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	450.3566	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C38\_S3

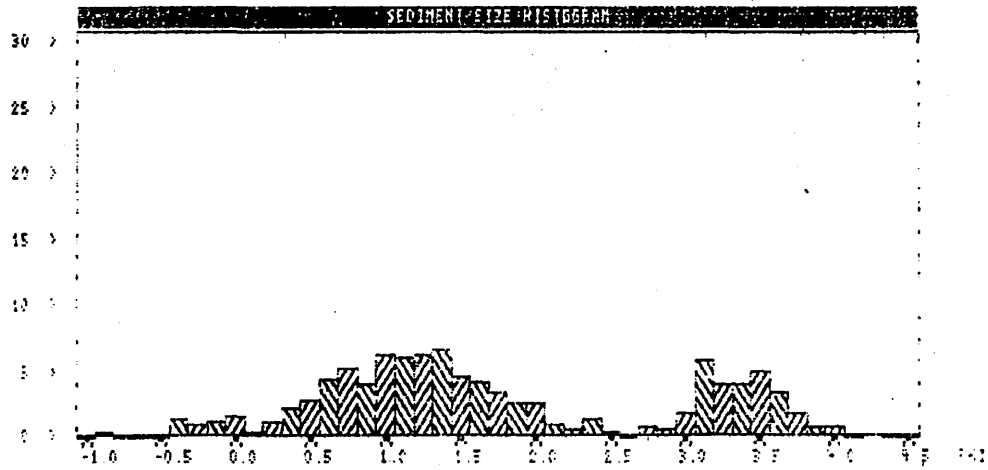
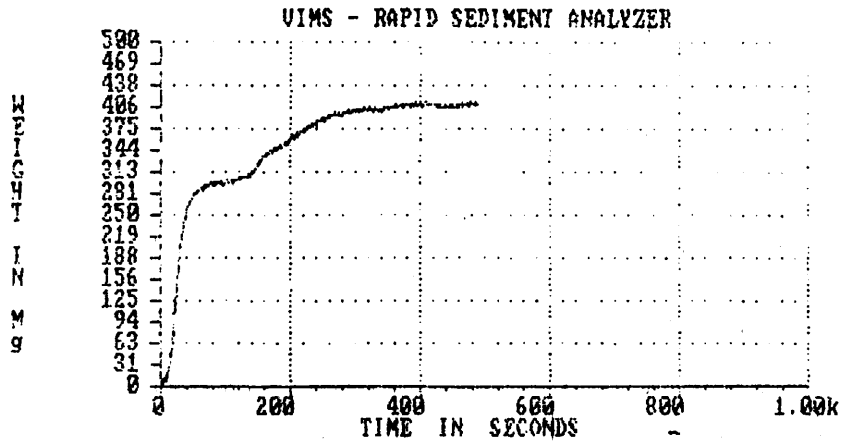
CORE 38 S-3 1.11-1.14M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
657.3712 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
1.6893 1.1600 0.3430 2.0045 M1 M2 M3 M4 (phi)  
1.7415 1.3617 1.2033 0.3292 0.5539 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2477	0.3086	1.2477	0.3086
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2477	0.3086
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2477	0.3086
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2477	0.3086
-0.3750	1.2968	14.5884	5.8855	1.4557	7.1333	1.7643
-0.2500	1.1892	13.6217	3.6225	0.8960	10.7557	2.6602
-0.1250	1.0905	12.6995	4.6064	1.1393	15.3622	3.7996
0.0000	1.0000	11.8208	6.6469	1.6440	22.0091	5.4436
0.1250	0.9170	10.9848	1.6480	0.4076	23.6571	5.8512
0.2500	0.8409	10.1905	4.3443	1.0745	28.0014	6.9257
0.3750	0.7711	9.4370	8.7095	2.1542	36.7109	9.0798
0.5000	0.7071	8.7233	11.4289	2.8267	48.1398	11.9065
0.6250	0.6484	8.0484	17.7876	4.3995	65.9274	16.3060
0.7500	0.5946	7.4111	21.4390	5.3026	87.3665	21.6086
0.8750	0.5453	6.8104	16.3482	4.0434	103.7146	25.6520
1.0000	0.5000	6.2452	25.1618	6.2233	128.8764	31.8753
1.1250	0.4585	5.7143	24.3213	6.0154	153.1977	37.8908
1.2500	0.4204	5.2167	25.3972	6.2815	178.5949	44.1723
1.3750	0.3856	4.7510	26.3760	6.5236	204.9709	50.6960
1.5000	0.3536	4.3163	18.4882	4.5727	223.4591	55.2687
1.6250	0.3242	3.9113	17.3368	4.2879	240.7959	59.5567
1.7500	0.2973	3.5349	13.7630	3.4040	254.5588	62.9607
1.8750	0.2726	3.1860	10.3542	2.5609	264.9131	65.5216
2.0000	0.2500	2.8634	10.0435	2.4841	274.9566	68.0057
2.1250	0.2293	2.5660	4.0881	1.0111	279.0447	69.0168
2.2500	0.2102	2.2927	2.5090	0.6206	281.5537	69.6374
2.3750	0.1928	2.0423	5.8130	1.4377	287.3667	71.0751
2.5000	0.1768	1.8137	1.1723	0.2899	288.5390	71.3651
2.6250	0.1621	1.6058	0.0000	0.0000	288.5390	71.3651
2.7500	0.1487	1.4175	2.7320	0.6757	291.2710	72.0408
2.8750	0.1363	1.2476	2.1387	0.5290	293.4096	72.5698
3.0000	0.1250	1.0949	6.8750	1.7004	300.2847	74.2702
3.1250	0.1146	0.9582	23.8112	5.8893	324.0959	80.1595
3.2500	0.1051	0.8364	15.9565	3.9466	340.0524	84.1060
3.3750	0.0964	0.7282	15.8724	3.9258	355.9249	88.0318
3.5000	0.0884	0.6326	20.6490	5.1072	376.5738	93.1390
3.6250	0.0811	0.5484	13.8207	3.4183	390.3945	96.5573
3.7500	0.0743	0.4744	7.1567	1.7701	397.5513	98.3274
3.8750	0.0682	0.4098	2.7686	0.6848	400.3199	99.0121
4.0000	0.0625	0.3533	3.4000	0.8409	403.7199	99.8531
4.1250	0.0573	0.3043	0.0000	0.0000	403.7199	99.8531
4.2500	0.0526	0.2617	0.5941	0.1469	404.3140	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	404.3140	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	404.3140	100.0000

• - fall velocity of natural grains in fresh water at 20°C





## C38\_S4

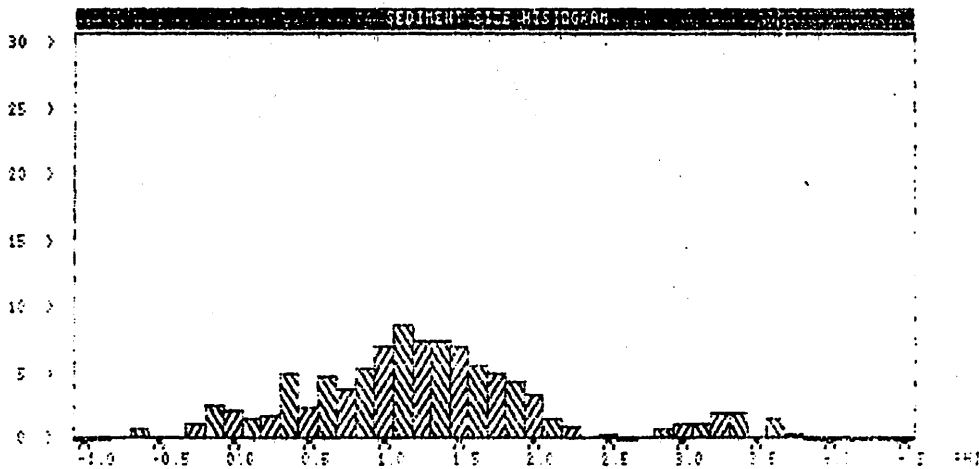
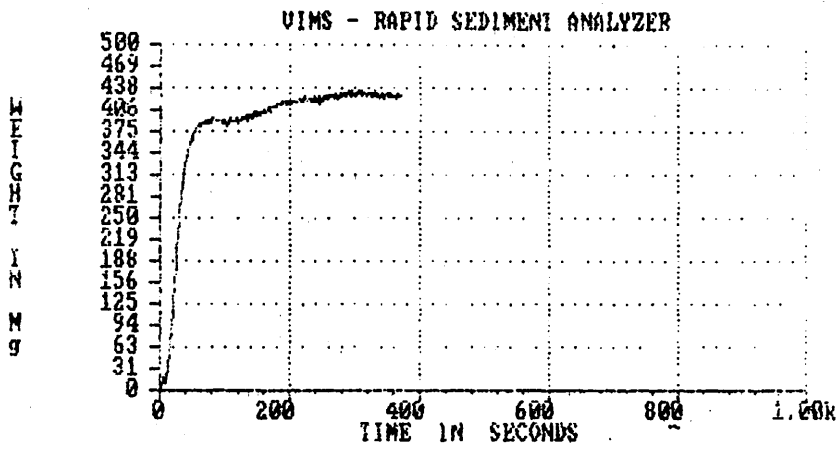
CORE 38 S-4 1.14-1.20M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 685.5779 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 1.2330 0.8691 0.6663 3.6905 M1 M2 M3 M4 (phi)  
 1.1444 1.1671 0.8669 0.0879 1.0151 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.9940	0.2367	0.9940	0.2367
-0.6250	1.5422	16.6582	3.1033	0.7389	4.0973	0.9756
-0.5000	1.4142	15.6003	0.2753	0.0656	4.3726	1.0412
-0.3750	1.2968	14.5884	0.5772	0.1374	4.9498	1.1786
-0.2500	1.1892	13.6217	4.4987	1.0712	9.4486	2.2498
-0.1250	1.0905	12.6995	11.1008	2.6432	20.5494	4.8931
0.0000	1.0000	11.8208	9.2469	2.2018	29.7962	7.0949
0.1250	0.9170	10.9848	6.5156	1.5514	36.3118	8.6463
0.2500	0.8409	10.1905	7.7973	1.8566	44.1091	10.5029
0.3750	0.7711	9.4370	20.9948	4.9991	65.1039	15.5021
0.5000	0.7071	8.7233	9.8213	2.3386	74.9252	17.8407
0.6250	0.6484	8.0484	19.7901	4.7123	94.7153	22.5530
0.7500	0.5946	7.4111	16.1690	3.8500	110.8843	26.4030
0.8750	0.5453	6.8104	22.9457	5.4637	133.8300	31.8667
1.0000	0.5000	6.2452	29.7791	7.0908	163.6091	38.9575
1.1250	0.4585	5.7143	35.9421	8.5583	199.5512	47.5157
1.2500	0.4204	5.2167	30.9460	7.3686	230.4971	54.8844
1.3750	0.3856	4.7510	31.3144	7.4564	261.8116	62.3408
1.5000	0.3536	4.3163	29.6101	7.0505	291.4216	69.3913
1.6250	0.3242	3.9113	23.6834	5.6393	315.1050	75.0306
1.7500	0.2973	3.5349	20.9898	4.9979	336.0948	80.0286
1.8750	0.2726	3.1860	18.2242	4.3394	354.3190	84.3680
2.0000	0.2500	2.8634	14.2855	3.4016	368.6045	87.7696
2.1250	0.2293	2.5660	6.2671	1.4923	374.8716	89.2618
2.2500	0.2102	2.2927	4.3517	1.0362	379.2233	90.2980
2.3750	0.1928	2.0423	0.4378	0.1042	379.6611	90.4023
2.5000	0.1768	1.8137	1.3129	0.3126	380.9740	90.7149
2.6250	0.1621	1.6058	0.0000	0.0000	380.9740	90.7149
2.7500	0.1487	1.4175	0.4428	0.1054	381.4168	90.8203
2.8750	0.1363	1.2476	3.5562	0.8468	384.9730	91.6671
3.0000	0.1250	1.0949	4.9538	1.1796	389.9268	92.8467
3.1250	0.1146	0.9582	4.6434	1.1057	394.5703	93.9524
3.2500	0.1051	0.8364	8.5484	2.0355	403.1186	95.9878
3.3750	0.0964	0.7282	8.2137	1.9558	411.3323	97.9436
3.5000	0.0884	0.6326	0.4788	0.1140	411.8111	98.0576
3.6250	0.0811	0.5484	6.8566	1.6327	418.6678	99.6903
3.7500	0.0743	0.4744	1.3007	0.3097	419.9685	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	419.9685	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	419.9685	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	419.9685	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	419.9685	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	419.9685	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	419.9685	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C38\_S5

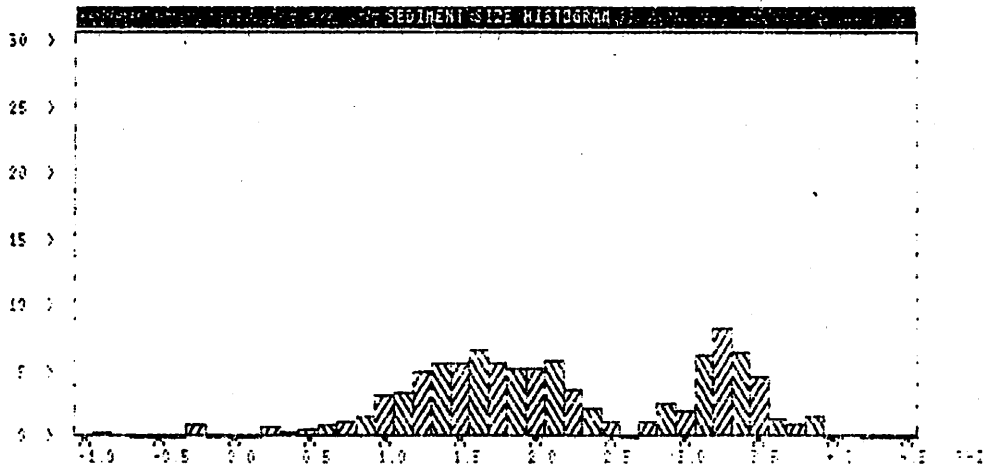
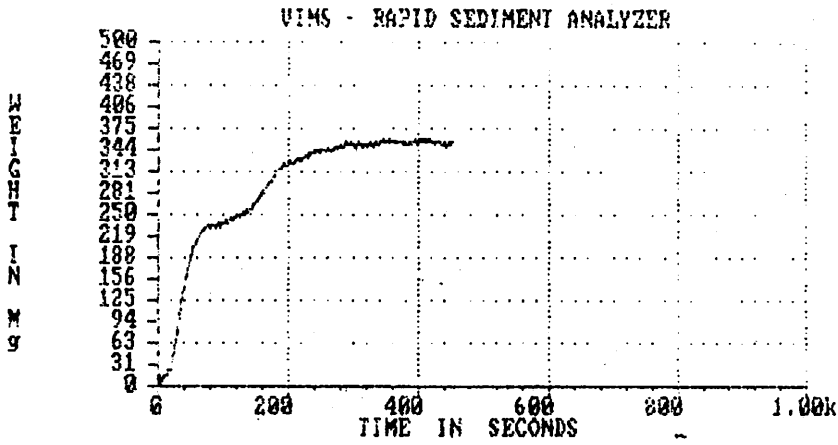
CORE 38 S-5 1.20-1.56M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
568.8337 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.0886 0.9654 -0.1607 2.5811 M1 M2 M3 M4 (phi)  
2.1168 1.9367 0.9315 0.1852 0.4507 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.7847	0.2273	0.7847	0.2273
-0.8750	1.8340	18.9156	1.4837	0.4297	2.2684	0.6569
-0.7500	1.6818	17.7631	0.6561	0.1900	2.9245	0.8470
-0.6250	1.5422	16.6582	0.0000	0.0000	2.9245	0.8470
-0.5000	1.4142	15.6003	0.0000	0.0000	2.9245	0.8470
-0.3750	1.2968	14.5884	0.0000	0.0000	2.9245	0.8470
-0.2500	1.1892	13.6217	3.0604	0.8863	5.9849	1.7332
-0.1250	1.0905	12.6995	0.0000	0.0000	5.9849	1.7332
0.0000	1.0000	11.8208	0.0000	0.0000	5.9849	1.7332
0.1250	0.9170	10.9848	0.0000	0.0000	5.9849	1.7332
0.2500	0.8409	10.1905	2.4455	0.7082	8.4304	2.4415
0.3750	0.7711	9.4370	0.9331	0.2702	9.3635	2.7117
0.5000	0.7071	8.7233	2.1118	0.6116	11.4754	3.3233
0.6250	0.6484	8.0484	3.5205	1.0196	14.9959	4.3429
0.7500	0.5946	7.4111	3.7473	1.0852	18.7432	5.4281
0.8750	0.5453	6.8104	5.3087	1.5374	24.0519	6.9656
1.0000	0.5000	6.2452	11.2857	3.2684	35.3376	10.2340
1.1250	0.4585	5.7143	11.9545	3.4621	47.2921	13.6961
1.2500	0.4204	5.2167	17.3393	5.0216	64.6314	18.7176
1.3750	0.3856	4.7510	19.6406	5.6880	84.2720	24.4056
1.5000	0.3536	4.3163	19.1298	5.5401	103.4018	29.9457
1.6250	0.3242	3.9113	22.9646	6.6507	126.3664	36.5964
1.7500	0.2973	3.5349	19.6105	5.6793	145.9768	42.2757
1.8750	0.2726	3.1860	17.7307	5.1349	163.7075	47.4106
2.0000	0.2500	2.8634	18.1161	5.2465	181.8236	52.6571
2.1250	0.2293	2.5660	19.8306	5.7431	201.6542	58.4002
2.2500	0.2102	2.2927	12.2029	3.5340	213.8571	61.9342
2.3750	0.1928	2.0423	7.7715	2.2507	221.6286	64.1849
2.5000	0.1768	1.8137	3.7307	1.0804	225.3592	65.2653
2.6250	0.1621	1.6058	0.0000	0.0000	225.3592	65.2653
2.7500	0.1487	1.4175	3.9694	1.1496	229.3286	66.4149
2.8750	0.1363	1.2476	8.5966	2.4896	237.9252	68.9045
3.0000	0.1250	1.0949	6.5058	1.8841	244.4310	70.7886
3.1250	0.1146	0.9582	21.2907	6.1659	265.7216	76.9545
3.2500	0.1051	0.8364	28.6070	8.2848	294.3286	85.2392
3.3750	0.0964	0.7282	22.0063	6.3731	316.3349	91.6124
3.5000	0.0884	0.6326	15.7034	4.5478	332.0383	96.1602
3.6250	0.0811	0.5484	4.4048	1.2756	336.4431	97.4358
3.7500	0.0743	0.4744	3.3168	0.9606	339.7599	98.3964
3.8750	0.0682	0.4098	5.1638	1.4955	344.9236	99.8918
4.0000	0.0625	0.3533	0.0000	0.0000	344.9236	99.8918
4.1250	0.0573	0.3043	0.3735	0.1082	345.2971	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	345.2971	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	345.2971	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	345.2971	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C38\_S6

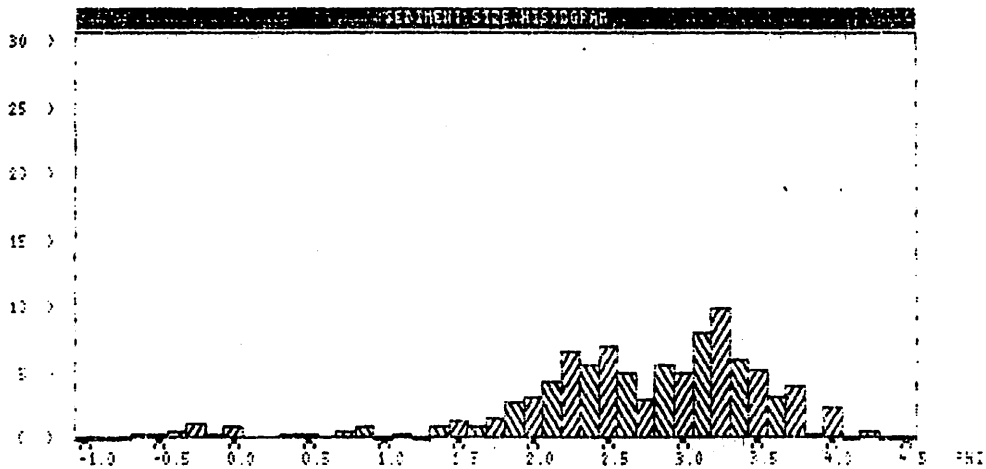
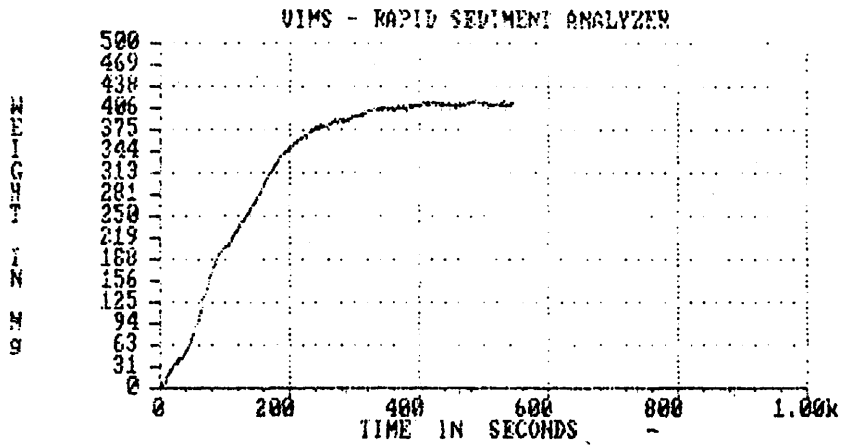
CORE 38 S-6 1.56-1.83M

VA BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
666.7734 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.912}$   
2.5834 0.9133 -1.3193 5.1476 M1 M2 M3 M4 (phi)  
2.6834 2.7558 0.8333 -0.2713 0.5490 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.5433	0.3764	1.5433	0.3764
-0.5000	1.4142	15.6003	1.1848	0.2890	2.7281	0.6654
-0.3750	1.2968	14.5884	2.3089	0.5631	5.0370	1.2285
-0.2500	1.1892	13.6217	4.7855	1.1672	9.8224	2.3957
-0.1250	1.0905	12.6995	1.0928	0.2665	10.9152	2.6622
0.0000	1.0000	11.8208	3.9550	0.9646	14.8702	3.6268
0.1250	0.9170	10.9848	1.0397	0.2536	15.9099	3.8804
0.2500	0.8409	10.1905	0.7633	0.1862	16.6732	4.0665
0.3750	0.7711	9.4370	1.3547	0.3304	18.0279	4.3969
0.5000	0.7071	8.7233	1.7068	0.4163	19.7347	4.8132
0.6250	0.6484	8.0484	1.0409	0.2539	20.7757	5.0671
0.7500	0.5946	7.4111	2.5312	0.6174	23.3069	5.6845
0.8750	0.5453	6.8104	4.0923	0.9981	27.3992	6.6826
1.0000	0.5000	6.2452	0.0000	0.0000	27.3992	6.6826
1.1250	0.4585	5.7143	1.5603	0.3806	28.9595	7.0631
1.2500	0.4204	5.2167	0.0000	0.0000	28.9595	7.0631
1.3750	0.3856	4.7510	3.6867	0.8992	32.6462	7.9623
1.5000	0.3536	4.3163	5.5452	1.3525	38.1914	9.3148
1.6250	0.3242	3.9113	4.3796	1.0682	42.5711	10.3829
1.7500	0.2973	3.5349	6.3824	1.5566	48.9535	11.9396
1.8750	0.2726	3.1860	11.6885	2.8508	60.6420	14.7904
2.0000	0.2500	2.8634	13.1293	3.2022	73.7712	17.9925
2.1250	0.2293	2.5660	17.8036	4.3422	91.5748	22.3348
2.2500	0.2102	2.2927	27.1432	6.6201	118.7180	28.9549
2.3750	0.1928	2.0423	22.7990	5.5606	141.5171	34.5155
2.5000	0.1768	1.8137	29.1961	7.1208	170.7131	41.6363
2.6250	0.1621	1.6058	20.7886	5.0703	191.5017	46.7066
2.7500	0.1487	1.4175	12.4354	3.0329	203.9371	49.7395
2.8750	0.1363	1.2476	22.9229	5.5908	226.8599	55.3303
3.0000	0.1250	1.0949	20.1385	4.9117	246.9984	60.2420
3.1250	0.1146	0.9582	32.7353	7.9840	279.7338	68.2261
3.2500	0.1051	0.8364	40.1895	9.8021	319.9233	78.0281
3.3750	0.0964	0.7282	25.0779	6.1164	345.0011	84.1445
3.5000	0.0884	0.6326	21.6088	5.2703	366.6100	89.4149
3.6250	0.0811	0.5484	13.0258	3.1769	379.6358	92.5918
3.7500	0.0743	0.4744	16.5368	4.0333	396.1726	96.6251
3.8750	0.0682	0.4098	1.8965	0.4626	398.0691	97.0876
4.0000	0.0625	0.3533	9.8356	2.3989	407.9046	99.4865
4.1250	0.0573	0.3043	0.0000	0.0000	407.9046	99.4865
4.2500	0.0526	0.2617	2.1055	0.5135	410.0101	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	410.0101	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	410.0101	100.0000

\* - fall velocity of natural grains in fresh water, at 20°C



C38\_58

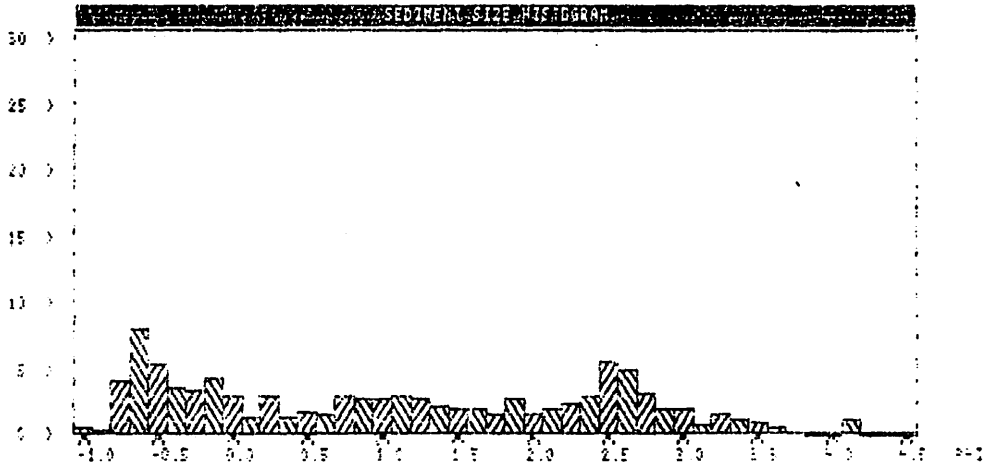
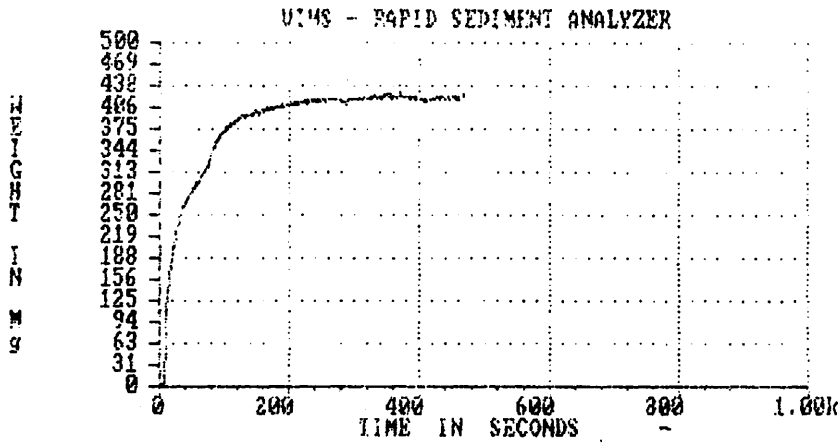
CORE 38 S-8 1.98-2.20M

VABEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
678.1344 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.91}$   
1.0471 1.3508 0.1773 1.7581 M1 M2 M3 M4 (phi)  
0.9993 0.9865 1.3735 0.0632 0.6545 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.0228	0.4808	2.0228	0.4808
-0.8750	1.8340	18.9156	1.4723	0.3499	3.4951	0.8307
-0.7500	1.6818	17.7631	17.3597	4.1258	20.8548	4.9565
-0.6250	1.5422	16.6582	33.6857	8.0060	54.5405	12.9625
-0.5000	1.4142	15.6003	22.3990	5.3235	76.9396	18.2860
-0.3750	1.2968	14.5884	14.7128	3.4967	91.6523	21.7827
-0.2500	1.1892	13.6217	14.5915	3.4679	106.2439	25.2506
-0.1250	1.0905	12.6995	18.2733	4.3430	124.5171	29.5936
0.0000	1.0000	11.8208	12.9198	3.0706	137.4369	32.6642
0.1250	0.9170	10.9848	5.7851	1.3749	143.2220	34.0391
0.2500	0.8409	10.1905	12.8740	3.0597	156.0960	37.0988
0.3750	0.7711	9.4370	6.0529	1.4386	162.1490	38.5374
0.5000	0.7071	8.7233	7.3811	1.7542	169.5300	40.2917
0.6250	0.6484	8.0484	6.7506	1.6044	176.2807	41.8961
0.7500	0.5946	7.4111	12.4068	2.9487	188.6875	44.8448
0.8750	0.5453	6.8104	11.3342	2.6938	200.0216	47.5385
1.0000	0.5000	6.2452	11.6084	2.7589	211.6300	50.2974
1.1250	0.4585	5.7143	12.6689	3.0110	224.2990	53.3084
1.2500	0.4204	5.2167	11.9948	2.8508	236.2938	56.1592
1.3750	0.3856	4.7510	9.0805	2.1581	245.3742	58.3173
1.5000	0.3536	4.3163	8.2523	1.9613	253.6265	60.2786
1.6250	0.3242	3.9113	8.1424	1.9352	261.7689	62.2138
1.7500	0.2973	3.5349	6.5441	1.5553	268.3131	63.7691
1.8750	0.2726	3.1860	11.7861	2.8012	280.0992	66.5703
2.0000	0.2500	2.8634	6.5670	1.5608	286.6662	68.1311
2.1250	0.2293	2.5660	8.7286	2.0745	295.3948	70.2056
2.2500	0.2102	2.2927	10.3197	2.4527	305.7145	72.6582
2.3750	0.1928	2.0423	12.5810	2.9901	318.2955	75.6483
2.5000	0.1768	1.8137	24.0146	5.7075	342.3101	81.3558
2.6250	0.1621	1.6058	21.3718	5.0794	363.6819	86.4351
2.7500	0.1487	1.4175	13.4387	3.1939	377.1206	89.6291
2.8750	0.1363	1.2476	8.3022	1.9732	385.4228	91.6022
3.0000	0.1250	1.0949	8.4202	2.0012	393.8429	93.6034
3.1250	0.1146	0.9582	3.4695	0.8246	397.3124	94.4280
3.2500	0.1051	0.8364	6.7330	1.6002	404.0454	96.0282
3.3750	0.0964	0.7282	4.9972	1.1877	409.0425	97.2159
3.5000	0.0884	0.6326	3.9832	0.9467	413.0257	98.1625
3.6250	0.0811	0.5484	2.1857	0.5195	415.2114	98.6820
3.7500	0.0743	0.4744	0.7375	0.1753	415.9489	98.8573
3.8750	0.0682	0.4098	0.0000	0.0000	415.9489	98.8573
4.0000	0.0625	0.3533	0.0000	0.0000	415.9489	98.8573
4.1250	0.0573	0.3043	4.8081	1.1427	420.7570	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	420.7570	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	420.7570	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	420.7570	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C39\_S1

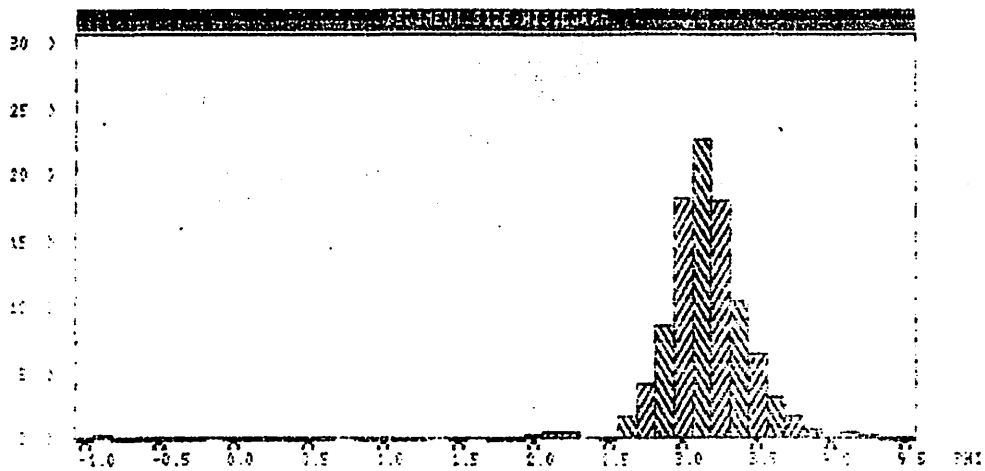
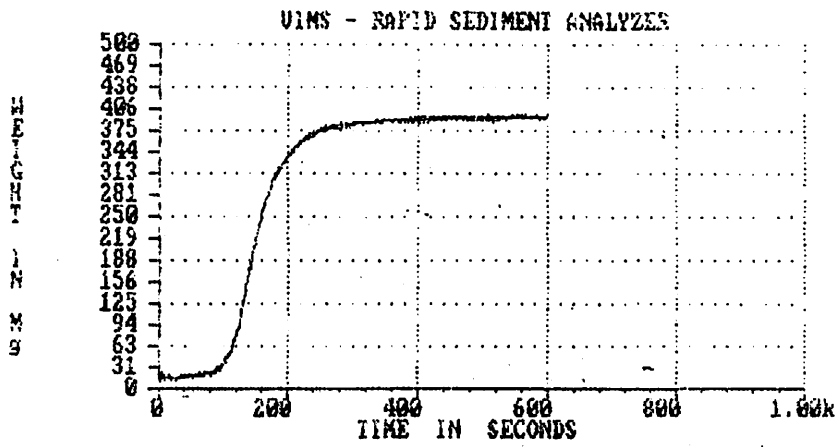
CORE 39 S-1 0.0-1.81M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CP  
631.9069 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s+0.913$   
3.0642 0.4196 -4.0505 36.5637 M1 M2 M3 M4 (phi)  
3.0919 3.0793 0.2638 0.0659 0.1875 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2068	0.3154	1.2068	0.3154
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2068	0.3154
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2068	0.3154
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2068	0.3154
-0.3750	1.2968	14.5884	0.0000	0.0000	1.2068	0.3154
-0.2500	1.1892	13.6217	0.0000	0.0000	1.2068	0.3154
-0.1250	1.0905	12.6995	0.6275	0.1640	1.8344	0.4794
0.0000	1.0000	11.8208	0.0000	0.0000	1.8344	0.4794
0.1250	0.9170	10.9848	0.0000	0.0000	1.8344	0.4794
0.2500	0.8409	10.1905	0.0000	0.0000	1.8344	0.4794
0.3750	0.7711	9.4370	0.0000	0.0000	1.8344	0.4794
0.5000	0.7071	8.7233	0.0000	0.0000	1.8344	0.4794
0.6250	0.6484	8.0484	0.0000	0.0000	1.8344	0.4794
0.7500	0.5946	7.4111	0.8361	0.2185	2.6704	0.6979
0.8750	0.5453	6.8104	0.0000	0.0000	2.6704	0.6979
1.0000	0.5000	6.2452	0.0000	0.0000	2.6704	0.6979
1.1250	0.4585	5.7143	0.0000	0.0000	2.6704	0.6979
1.2500	0.4204	5.2167	0.0000	0.0000	2.6704	0.6979
1.3750	0.3856	4.7510	0.7966	0.2082	3.4670	0.9061
1.5000	0.3536	4.3163	0.0000	0.0000	3.4670	0.9061
1.6250	0.3242	3.9113	0.8828	0.2307	4.3498	1.1368
1.7500	0.2973	3.5349	0.0000	0.0000	4.3498	1.1368
1.8750	0.2726	3.1860	0.0000	0.0000	4.3498	1.1368
2.0000	0.2500	2.8634	1.5452	0.4038	5.8951	1.5406
2.1250	0.2293	2.5660	1.9957	0.5216	7.8908	2.0622
2.2500	0.2102	2.2927	2.2243	0.5813	10.1150	2.6434
2.3750	0.1928	2.0423	0.8073	0.2110	10.9223	2.8544
2.5000	0.1768	1.8137	0.0000	0.0000	10.9223	2.8544
2.6250	0.1621	1.6058	6.5513	1.7121	17.4736	4.5665
2.7500	0.1487	1.4175	16.3519	4.2734	33.8255	8.8399
2.8750	0.1363	1.2476	33.0294	8.6318	66.8549	17.4717
3.0000	0.1250	1.0949	69.7349	18.2244	136.5898	35.6961
3.1250	0.1146	0.9582	86.2658	22.5446	222.8557	58.2407
3.2500	0.1051	0.8364	68.9694	18.0243	291.8251	76.2650
3.3750	0.0964	0.7282	39.8702	10.4196	331.6953	86.6846
3.5000	0.0884	0.6326	24.6542	6.4431	356.3494	93.1277
3.6250	0.0811	0.5484	12.4940	3.2652	368.8434	96.3929
3.7500	0.0743	0.4744	6.4222	1.6784	375.2657	98.0712
3.8750	0.0682	0.4098	2.6791	0.7002	377.9448	98.7714
4.0000	0.0625	0.3533	0.9781	0.2556	378.9229	99.0270
4.1250	0.0573	0.3043	2.0248	0.5292	380.9477	99.5562
4.2500	0.0526	0.2617	1.6983	0.4438	382.6460	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	382.6460	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	382.6460	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C39\_S2

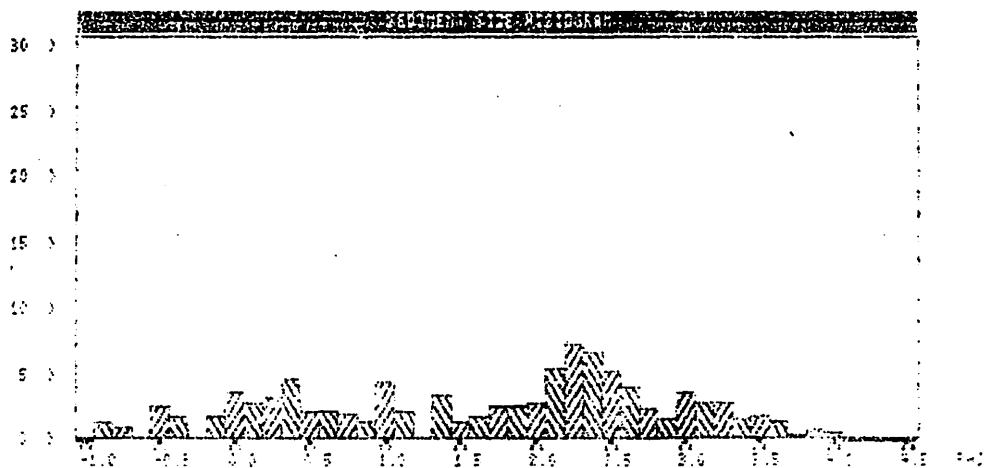
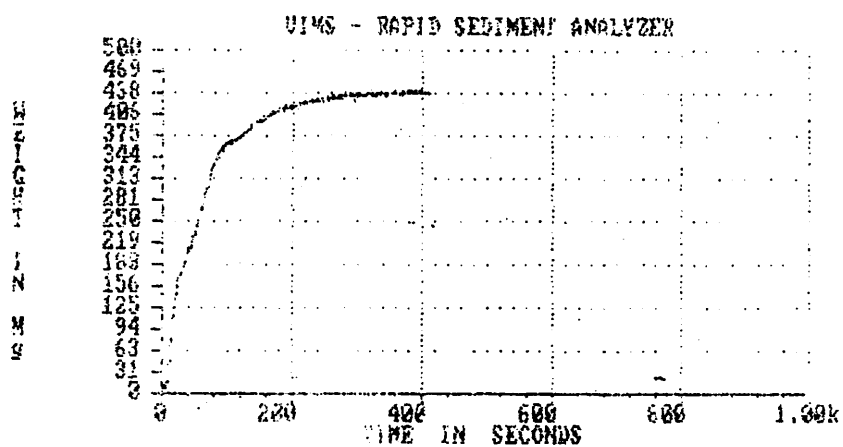
CORE 39 S-2 1.81-1.84M

VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 704.3823    Dry Sand Fraction Weight (mg)  
 2.65        Grain density /Natural Grain Fall Time using Wn=0.977Ws=0.913  
 1.5870    1.2033    -0.2560    2.0138    M1 M2 M3 M4 (phi)  
 1.6311    1.9011    1.2504    -0.2723    0.6962    Mz,Md,Sl,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	5.5468	1.2829	5.5468	1.2829
-0.7500	1.6818	17.7631	3.8964	0.9012	9.4433	2.1842
-0.6250	1.5422	16.6582	0.3714	0.0859	9.8146	2.2701
-0.5000	1.4142	15.6003	10.7925	2.4962	20.6071	4.7663
-0.3750	1.2968	14.5884	7.8048	1.8052	28.4319	6.5715
-0.2500	1.1892	13.6217	0.7380	0.1707	29.1499	6.7422
-0.1250	1.0905	12.6995	8.0929	1.8718	37.2428	8.6140
0.0000	1.0000	11.8208	15.9389	3.6865	53.1816	12.3006
0.1250	0.9170	10.9848	12.2472	2.8327	65.4289	15.1332
0.2500	0.8409	10.1905	13.6633	3.1602	79.0922	18.2935
0.3750	0.7711	9.4370	20.1175	4.6530	99.2097	22.9465
0.5000	0.7071	8.7233	9.6372	2.2290	108.8468	25.1755
0.6250	0.6484	8.0484	9.7957	2.2657	118.6426	27.4412
0.7500	0.5946	7.4111	8.6449	1.9995	127.2875	29.4407
0.8750	0.5453	6.8104	6.2168	1.4379	133.5043	30.8786
1.0000	0.5000	6.2452	19.3495	4.4754	152.8538	35.3540
1.1250	0.4585	5.7143	9.5382	2.2061	162.3920	37.5601
1.2500	0.4204	5.2167	0.2885	0.0667	162.6805	37.6269
1.3750	0.3856	4.7510	14.6656	3.3921	177.3461	41.0189
1.5000	0.3536	4.3163	5.6714	1.3118	183.0175	42.3307
1.6250	0.3242	3.9113	8.0938	1.8720	191.1114	44.2027
1.7500	0.2973	3.5349	11.1444	2.5776	202.2558	46.7804
1.8750	0.2726	3.1860	11.3918	2.6348	213.6475	49.4152
2.0000	0.2500	2.8634	12.1078	2.8004	225.7553	52.2157
2.1250	0.2293	2.5660	23.1914	5.3640	248.9467	57.5797
2.2500	0.2102	2.2927	31.2366	7.2248	280.1833	64.8045
2.3750	0.1928	2.0423	28.6409	6.6244	308.8242	71.4289
2.5000	0.1768	1.8137	22.1654	5.1267	330.9896	76.5556
2.6250	0.1621	1.6058	17.6857	4.0906	348.6753	80.6462
2.7500	0.1487	1.4175	10.1810	2.3548	358.8564	83.0010
2.8750	0.1363	1.2476	6.5005	1.5035	365.3569	84.5045
3.0000	0.1250	1.0949	15.8406	3.6638	381.1975	88.1684
3.1250	0.1146	0.9582	11.7203	2.7108	392.9178	90.8792
3.2500	0.1051	0.8364	12.2722	2.8385	405.1900	93.7177
3.3750	0.0964	0.7282	6.4540	1.4928	411.6440	95.2104
3.5000	0.0884	0.6326	7.3050	1.6896	418.9490	96.9000
3.6250	0.0811	0.5484	5.9340	1.3725	424.8829	98.2725
3.7500	0.0743	0.4744	1.8315	0.4236	426.7145	98.6961
3.8750	0.0682	0.4098	3.3325	0.7708	430.0469	99.4669
4.0000	0.0625	0.3533	2.3048	0.5331	432.3517	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	432.3517	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	432.3517	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	432.3517	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	432.3517	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C39\_S3

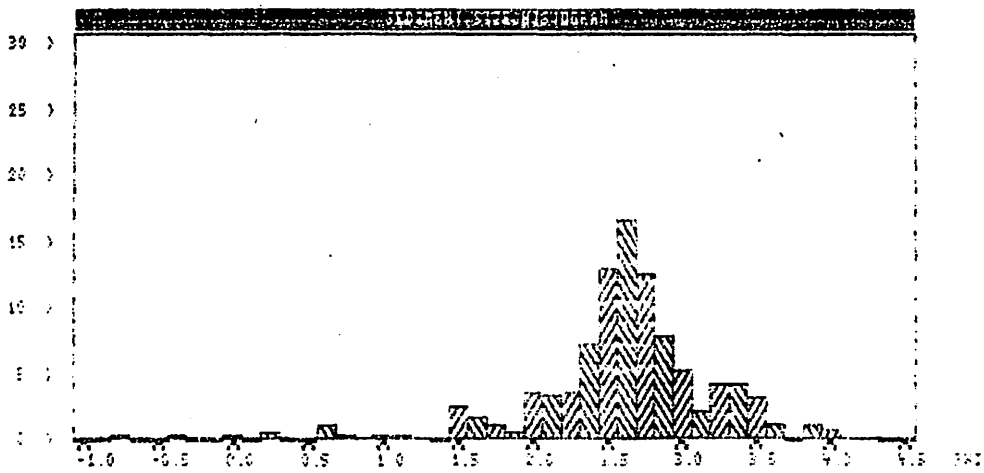
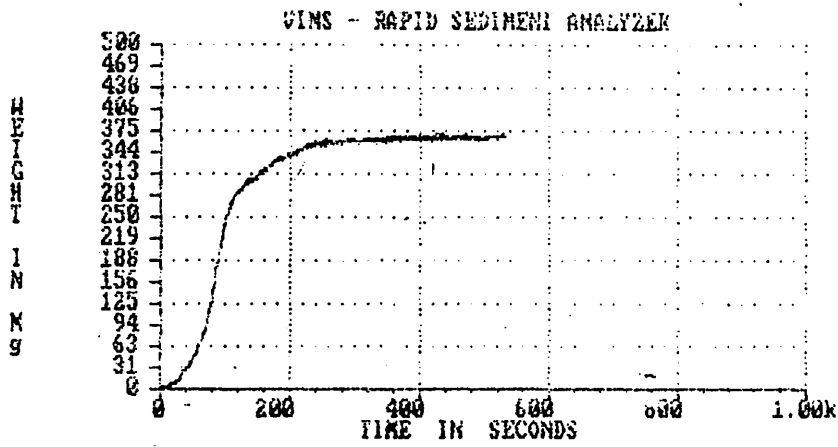
CORE 39 S-3 1.84-3.63M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
588.8134 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Wc^{10.913}$   
2.5230 0.6545 -1.4047 7.7281 M1 M2 M3 M4 (phi)  
2.5754 2.5703 0.5483 -0.0597 0.4364 Ms, Md, Sl, Skl, Kg

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.9701	0.2633	0.9701	0.2633
-0.6250	1.5422	16.6582	0.0000	0.0000	0.9701	0.2633
-0.5000	1.4142	15.6003	0.0000	0.0000	0.9701	0.2633
-0.3750	1.2968	14.5884	1.6364	0.4442	2.6065	0.7075
-0.2500	1.1892	13.6217	0.0993	0.0269	2.7057	0.7344
-0.1250	1.0905	12.6995	0.0000	0.0000	2.7057	0.7344
0.0000	1.0000	11.8208	1.0879	0.2953	3.7936	1.0297
0.1250	0.9170	10.9848	0.0000	0.0000	3.7936	1.0297
0.2500	0.8409	10.1905	1.7483	0.4745	5.5419	1.5043
0.3750	0.7711	9.4370	0.0000	0.0000	5.5419	1.5043
0.5000	0.7071	8.7233	0.0000	0.0000	5.5419	1.5043
0.6250	0.6484	8.0484	4.0462	1.0983	9.5881	2.6025
0.7500	0.5946	7.4111	1.1309	0.3070	10.7190	2.9095
0.8750	0.5453	6.8104	0.4294	0.1166	11.1484	3.0260
1.0000	0.5000	6.2452	0.9949	0.2700	12.1433	3.2961
1.1250	0.4585	5.7143	1.4511	0.3939	13.5944	3.6899
1.2500	0.4204	5.2167	0.2564	0.0696	13.8508	3.7595
1.3750	0.3856	4.7510	0.0000	0.0000	13.8508	3.7595
1.5000	0.3536	4.3163	9.7049	2.6342	23.5557	6.3937
1.6250	0.3242	3.9113	6.7051	1.8200	30.2608	8.2137
1.7500	0.2973	3.5349	4.4918	1.2192	34.7526	9.4329
1.8750	0.2726	3.1860	2.3734	0.6442	37.1260	10.0771
2.0000	0.2500	2.8634	13.2154	3.5871	50.3414	13.6642
2.1250	0.2293	2.5660	12.2070	3.3133	62.5484	16.9775
2.2500	0.2102	2.2927	13.2068	3.5847	75.7552	20.5623
2.3750	0.1928	2.0423	26.3392	7.1493	102.0944	27.7115
2.5000	0.1768	1.8137	47.6944	12.9457	149.7888	40.6572
2.6250	0.1621	1.6058	61.2331	16.6205	211.0219	57.2777
2.7500	0.1487	1.4175	45.7924	12.4294	256.8143	69.7072
2.8750	0.1363	1.2476	28.7803	7.8118	285.5946	77.5190
3.0000	0.1250	1.0949	19.4623	5.2826	305.0569	82.8017
3.1250	0.1146	0.9582	8.1547	2.2134	313.2116	85.0151
3.2500	0.1051	0.8364	15.3306	4.1612	328.5421	89.1763
3.3750	0.0964	0.7282	15.5436	4.2190	344.0858	93.3953
3.5000	0.0884	0.6326	12.0368	3.2671	356.1225	96.6625
3.6250	0.0811	0.5484	3.9482	1.0717	360.0708	97.7341
3.7500	0.0743	0.4744	0.0000	0.0000	360.0708	97.7341
3.8750	0.0682	0.4098	3.9393	1.0692	364.0100	98.8034
4.0000	0.0625	0.3533	3.0673	0.8326	367.0774	99.6359
4.1250	0.0573	0.3043	0.8198	0.2225	367.8972	99.8585
4.2500	0.0526	0.2617	0.5214	0.1415	368.4187	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	368.4187	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	368.4187	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C39\_S4

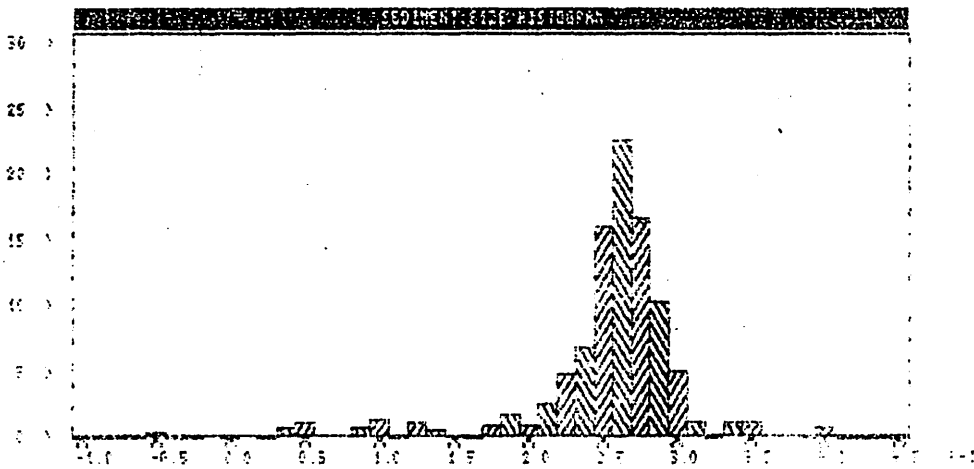
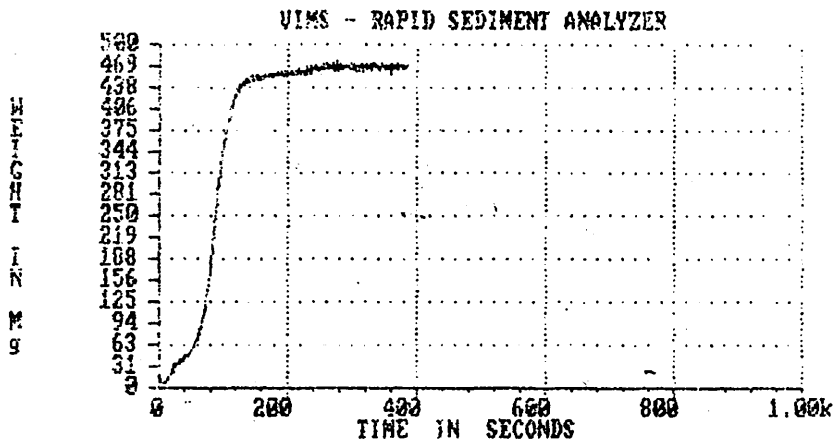
CORE 39 S-4 3.63-5.43M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
754.9192 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n^*0.913$   
2.4403 0.5844 -2.0270 9.2874 M1 M2 M3 M4 (phi)  
2.5134 2.5502 0.4575 -0.3696 0.4746 Mz, Md, Sl, SKI, Kg

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	1.8317	0.3948	1.8317	0.3948
-0.3750	1.2968	14.5884	0.0000	0.0000	1.8317	0.3948
-0.2500	1.1892	13.6217	0.0000	0.0000	1.8317	0.3948
-0.1250	1.0905	12.6995	0.4869	0.1049	2.3186	0.4997
0.0000	1.0000	11.8208	0.0000	0.0000	2.3186	0.4997
0.1250	0.9170	10.9848	1.1074	0.2387	3.4260	0.7384
0.2500	0.8409	10.1905	0.0000	0.0000	3.4260	0.7384
0.3750	0.7711	9.4370	3.7756	0.8137	7.2016	1.5522
0.5000	0.7071	8.7233	5.4204	1.1683	12.6220	2.7204
0.6250	0.6484	8.0484	0.3863	0.0833	13.0083	2.8037
0.7500	0.5946	7.4111	1.1425	0.2462	14.1508	3.0499
0.8750	0.5453	6.8104	3.9193	0.8447	18.0702	3.8946
1.0000	0.5000	6.2452	6.0984	1.3144	24.1686	5.2090
1.1250	0.4585	5.7143	0.0000	0.0000	24.1686	5.2090
1.2500	0.4204	5.2167	5.4907	1.1834	29.6593	6.3924
1.3750	0.3856	4.7510	2.7186	0.5859	32.3779	6.9784
1.5000	0.3536	4.3163	0.5237	0.1129	32.9016	7.0913
1.6250	0.3242	3.9113	0.0000	0.0000	32.9016	7.0913
1.7500	0.2973	3.5349	4.5288	0.9761	37.4305	8.0674
1.8750	0.2726	3.1860	8.0649	1.7382	45.4954	9.8056
2.0000	0.2500	2.8634	4.6012	0.9917	50.0965	10.7973
2.1250	0.2293	2.5660	12.2081	2.6312	62.3046	13.4285
2.2500	0.2102	2.2927	22.6782	4.8878	84.9828	18.3163
2.3750	0.1928	2.0423	31.6408	6.8195	116.6236	25.1358
2.5000	0.1768	1.8137	73.7864	15.9031	190.4100	41.0389
2.6250	0.1621	1.6058	103.6020	22.3292	294.0119	63.3681
2.7500	0.1487	1.4175	76.8149	16.5558	370.8268	79.9240
2.8750	0.1363	1.2476	47.9518	10.3350	418.7786	90.2590
3.0000	0.1250	1.0949	22.8273	4.9199	441.6059	95.1789
3.1250	0.1146	0.9582	5.8850	1.2684	447.4909	96.4473
3.2500	0.1051	0.8364	0.0000	0.0000	447.4909	96.4473
3.3750	0.0964	0.7282	5.8354	1.2577	453.3262	97.7050
3.5000	0.0884	0.6326	5.5972	1.2064	458.9234	98.9113
3.6250	0.0811	0.5484	0.4382	0.0944	459.3616	99.0058
3.7500	0.0743	0.4744	0.6653	0.1434	460.0269	99.1492
3.8750	0.0682	0.4098	0.0000	0.0000	460.0269	99.1492
4.0000	0.0625	0.3533	3.9477	0.8508	463.9745	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	463.9745	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	463.9745	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	463.9745	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	463.9745	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C40\_S1

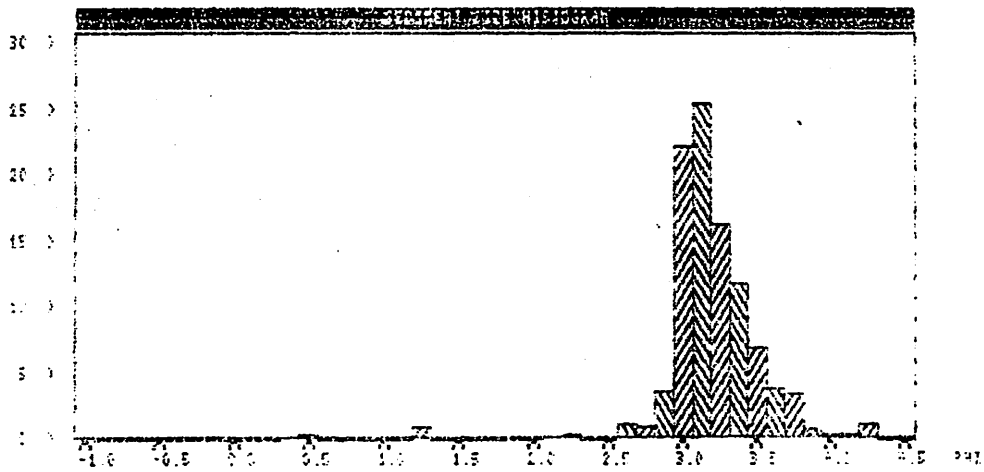
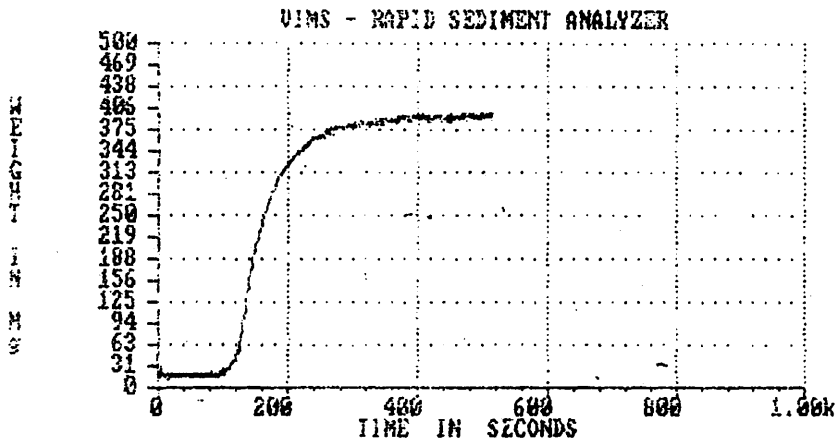
CORE 40 S-1 0.0-1.45M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
637.3915 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wz=0.913  
3.1137 0.4179 -3.1545 24.6982 M1 M2 M3 M4 (phi)  
3.1362 3.0983 0.2548 0.2525 0.1788 Mz,Md,SI,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Om.Wt(mg)	Om.Wt(%)
-1.0000	2.0000	20.1167	0.2873	0.0739	0.2873	0.0739
-0.8750	1.8340	18.9156	0.0000	0.0000	0.2873	0.0739
-0.7500	1.6818	17.7631	0.0000	0.0000	0.2873	0.0739
-0.6250	1.5422	16.6582	0.0000	0.0000	0.2873	0.0739
-0.5000	1.4142	15.6003	0.0000	0.0000	0.2873	0.0739
-0.3750	1.2968	14.5884	0.0000	0.0000	0.2873	0.0739
-0.2500	1.1892	13.6217	0.0000	0.0000	0.2873	0.0739
-0.1250	1.0905	12.6995	0.0000	0.0000	0.2873	0.0739
0.0000	1.0000	11.8208	0.0000	0.0000	0.2873	0.0739
0.1250	0.9170	10.9848	0.0614	0.0158	0.3487	0.0897
0.2500	0.8409	10.1905	0.0000	0.0000	0.3487	0.0897
0.3750	0.7711	9.4370	0.8574	0.2204	1.2061	0.3101
0.5000	0.7071	8.7233	1.5433	0.3968	2.7494	0.7069
0.6250	0.6484	8.0484	0.0000	0.0000	2.7494	0.7069
0.7500	0.5946	7.4111	0.0000	0.0000	2.7494	0.7069
0.8750	0.5453	6.8104	0.0000	0.0000	2.7494	0.7069
1.0000	0.5000	6.2452	0.0000	0.0000	2.7494	0.7069
1.1250	0.4585	5.7143	0.0000	0.0000	2.7494	0.7069
1.2500	0.4204	5.2167	3.9644	1.0193	6.7138	1.7262
1.3750	0.3856	4.7510	0.0000	0.0000	6.7138	1.7262
1.5000	0.3536	4.3163	0.0000	0.0000	6.7138	1.7262
1.6250	0.3242	3.9113	0.0000	0.0000	6.7138	1.7262
1.7500	0.2973	3.5349	0.0000	0.0000	6.7138	1.7262
1.8750	0.2726	3.1860	0.0000	0.0000	6.7138	1.7262
2.0000	0.2500	2.8634	0.0000	0.0000	6.7138	1.7262
2.1250	0.2293	2.5660	0.7409	0.1905	7.4547	1.9167
2.2500	0.2102	2.2927	1.4316	0.3681	8.8863	2.2848
2.3750	0.1928	2.0423	0.0000	0.0000	8.8863	2.2848
2.5000	0.1768	1.8137	0.0000	0.0000	8.8863	2.2848
2.6250	0.1621	1.6058	4.7586	1.2235	13.6449	3.5083
2.7500	0.1487	1.4175	4.0182	1.0331	17.6631	4.5415
2.8750	0.1363	1.2476	14.1419	3.6361	31.8050	8.1776
3.0000	0.1250	1.0949	85.6174	22.0137	117.4224	30.1914
3.1250	0.1146	0.9582	97.9462	25.1837	215.3686	55.3750
3.2500	0.1051	0.8364	62.7057	16.1227	278.0743	71.4978
3.3750	0.0964	0.7282	45.2613	11.6375	323.3357	83.1352
3.5000	0.0884	0.6326	26.2599	6.7519	349.5956	89.8671
3.6250	0.0811	0.5484	15.1539	3.8963	364.7494	93.7834
3.7500	0.0743	0.4744	13.4331	3.4539	378.1826	97.2373
3.8750	0.0682	0.4098	3.3237	0.8546	381.5063	98.0919
4.0000	0.0625	0.3533	1.4670	0.3772	382.9733	98.4691
4.1250	0.0573	0.3043	1.6490	0.4240	384.6223	98.8931
4.2500	0.0526	0.2617	4.3051	1.1069	388.9274	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	388.9274	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	388.9274	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C40\_S2

CORE 40 S-2 1.45-2.98M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
599.3909 Dry Sand Fraction Weight (mg)

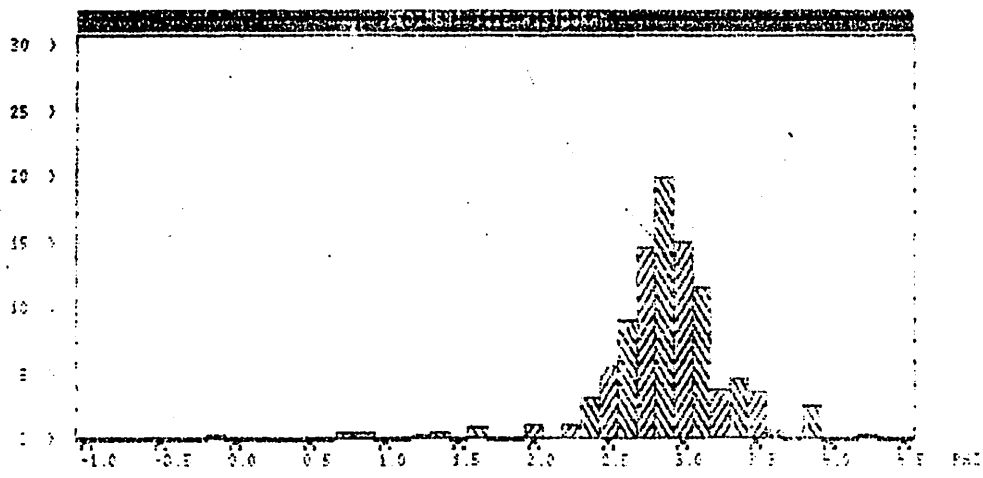
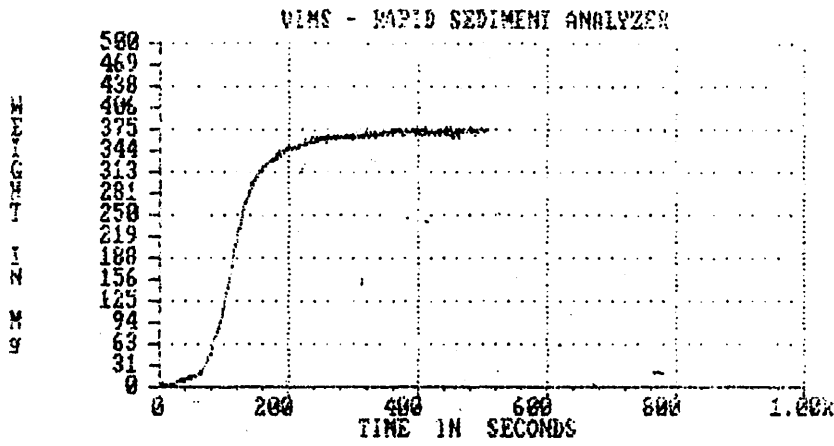
2.65 Grain density /Natural Grain Fall Time using Wn=0.9774\*0.913

2.7969 0.4852 -1.8578 11.6899 M1 M2 M3 M4 (phi)

2.8208 2.8246 0.3503 -0.0303 0.2767 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0164	0.0044	0.0164	0.0044
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0164	0.0044
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0164	0.0044
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0164	0.0044
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0164	0.0044
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0164	0.0044
-0.1250	1.0905	12.6995	1.4087	0.3762	1.4251	0.3806
0.0000	1.0000	11.8208	0.0000	0.0000	1.4251	0.3806
0.1250	0.9170	10.9848	0.0000	0.0000	1.4251	0.3806
0.2500	0.8409	10.1905	0.0000	0.0000	1.4251	0.3806
0.3750	0.7711	9.4370	0.0000	0.0000	1.4251	0.3806
0.5000	0.7071	8.7233	0.0000	0.0000	1.4251	0.3806
0.6250	0.6484	8.0484	0.0000	0.0000	1.4251	0.3806
0.7500	0.5946	7.4111	2.1824	0.5829	3.6075	0.9635
0.8750	0.5453	6.8104	2.1828	0.5830	5.7903	1.5465
1.0000	0.5000	6.2452	0.0000	0.0000	5.7903	1.5465
1.1250	0.4585	5.7143	0.0000	0.0000	5.7903	1.5465
1.2500	0.4204	5.2167	1.2584	0.3361	7.0487	1.8826
1.3750	0.3856	4.7510	1.9334	0.5164	8.9821	2.3990
1.5000	0.3536	4.3163	0.0000	0.0000	8.9821	2.3990
1.6250	0.3242	3.9113	3.8140	1.0187	12.7960	3.4177
1.7500	0.2973	3.5349	0.0000	0.0000	12.7960	3.4177
1.8750	0.2726	3.1860	0.0000	0.0000	12.7960	3.4177
2.0000	0.2500	2.8634	4.3862	1.1715	17.1822	4.5892
2.1250	0.2293	2.5660	0.9579	0.2558	18.1401	4.8450
2.2500	0.2102	2.2927	4.5583	1.2175	22.6984	6.0625
2.3750	0.1928	2.0423	12.0538	3.2194	34.7522	9.2819
2.5000	0.1768	1.8137	20.8234	5.5617	55.5756	14.8436
2.6250	0.1621	1.6058	33.5700	8.9662	89.1456	23.8098
2.7500	0.1487	1.4175	54.0659	14.4404	143.2115	38.2502
2.8750	0.1363	1.2476	73.7117	19.6876	216.9233	57.9378
3.0000	0.1250	1.0949	55.6065	14.8519	272.5298	72.7897
3.1250	0.1146	0.9582	43.0754	11.5050	315.6052	84.2947
3.2500	0.1051	0.8364	14.2312	3.8010	329.8363	88.0957
3.3750	0.0964	0.7282	17.2196	4.5992	347.0559	92.6948
3.5000	0.0884	0.6326	13.7732	3.6787	360.8291	96.3735
3.6250	0.0811	0.5484	3.0272	0.8085	363.8564	97.1820
3.7500	0.0743	0.4744	0.0000	0.0000	363.8564	97.1820
3.8750	0.0682	0.4098	9.3690	2.5023	373.2253	99.6844
4.0000	0.0625	0.3533	0.0000	0.0000	373.2253	99.6844
4.1250	0.0573	0.3043	0.0000	0.0000	373.2253	99.6844
4.2500	0.0526	0.2617	1.1817	0.3156	374.4070	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.4070	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.4070	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C40\_53

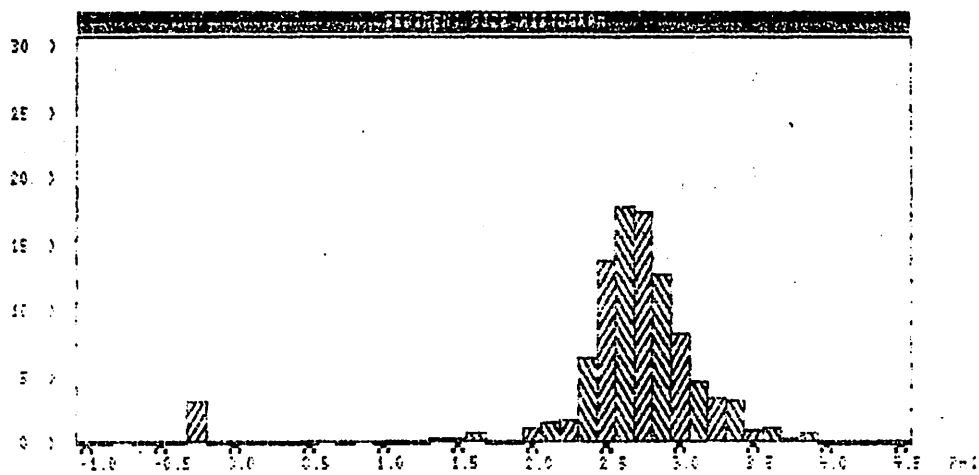
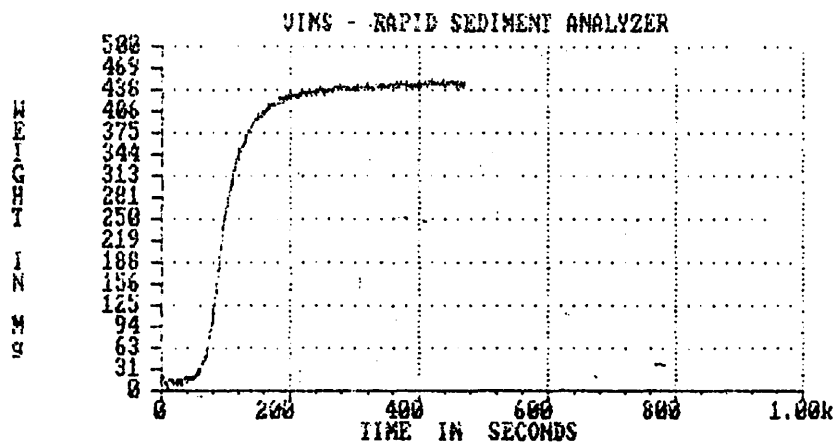
CORE 40 S-3 2.98 4.46M

VA. BEACH

0.0            0.0            0.00 Lat Lon Depth(m) Operator: CF  
 713.3927 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using Wn=0.9778\*0.913  
 2.5830 0.6367 -2.9275 14.4821 M1 M2 M3 M4 (phi)  
 2.6661 2.6447 0.3623 0.0253 0.3113 Mz,Md,S1,SKI,KC

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.2794	0.0622	0.2794	0.0622
-0.6250	1.5422	16.6582	0.0000	0.0000	0.2794	0.0622
-0.5000	1.4142	15.6003	0.0000	0.0000	0.2794	0.0622
-0.3750	1.2968	14.5884	0.0000	0.0000	0.2794	0.0622
-0.2500	1.1892	13.6217	13.9030	3.0961	14.1825	3.1583
-0.1250	1.0905	12.6995	0.0000	0.0000	14.1825	3.1583
0.0000	1.0000	11.8208	0.1344	0.0299	14.3169	3.1882
0.1250	0.9170	10.9848	0.0000	0.0000	14.3169	3.1882
0.2500	0.8409	10.1905	0.0000	0.0000	14.3169	3.1882
0.3750	0.7711	9.4370	0.0000	0.0000	14.3169	3.1882
0.5000	0.7071	8.7233	0.0000	0.0000	14.3169	3.1882
0.6250	0.6484	8.0484	0.3576	0.0796	14.6745	3.2679
0.7500	0.5946	7.4111	0.1389	0.0309	14.8134	3.2989
0.8750	0.5453	6.8104	0.3303	0.0736	15.1437	3.3723
1.0000	0.5000	6.2452	0.0000	0.0000	15.1437	3.3723
1.1250	0.4585	5.7143	0.0000	0.0000	15.1437	3.3723
1.2500	0.4204	5.2167	0.0000	0.0000	15.1437	3.3723
1.3750	0.3856	4.7510	1.6055	0.3575	16.7491	3.7299
1.5000	0.3536	4.3163	1.4641	0.3260	18.2132	4.0559
1.6250	0.3242	3.9113	3.0200	0.6725	21.2332	4.7284
1.7500	0.2973	3.5349	0.0000	0.0000	21.2332	4.7284
1.8750	0.2726	3.1860	0.0000	0.0000	21.2332	4.7284
2.0000	0.2500	2.8634	5.1235	1.1409	26.3567	5.8693
2.1250	0.2293	2.5660	7.4903	1.6680	33.8470	7.5374
2.2500	0.2102	2.2927	7.9657	1.7739	41.8128	9.3112
2.3750	0.1928	2.0423	29.1995	6.5024	71.0123	15.8137
2.5000	0.1768	1.8137	61.8997	13.7844	132.9120	29.5981
2.6250	0.1621	1.6058	79.3518	17.6708	212.2639	47.2689
2.7500	0.1487	1.4175	77.6933	17.3015	289.9571	64.5703
2.8750	0.1363	1.2476	57.0164	12.6969	346.9735	77.2673
3.0000	0.1250	1.0949	37.1498	8.2729	384.1233	85.5401
3.1250	0.1146	0.9582	20.2874	4.5178	404.4107	90.0579
3.2500	0.1051	0.8364	15.6623	3.4878	420.0730	93.5457
3.3750	0.0964	0.7282	14.5447	3.2389	434.6177	96.7847
3.5000	0.0884	0.6326	4.0018	0.8912	438.6195	97.6758
3.6250	0.0811	0.5484	5.6683	1.2623	444.2878	98.9381
3.7500	0.0743	0.4744	1.4563	0.3243	445.7441	99.2624
3.8750	0.0682	0.4098	3.3121	0.7376	449.0563	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	449.0563	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	449.0563	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	449.0563	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	449.0563	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	449.0563	100.0000

\* - fall velocity of natural grains in fresh water at 2000



c41\_s1

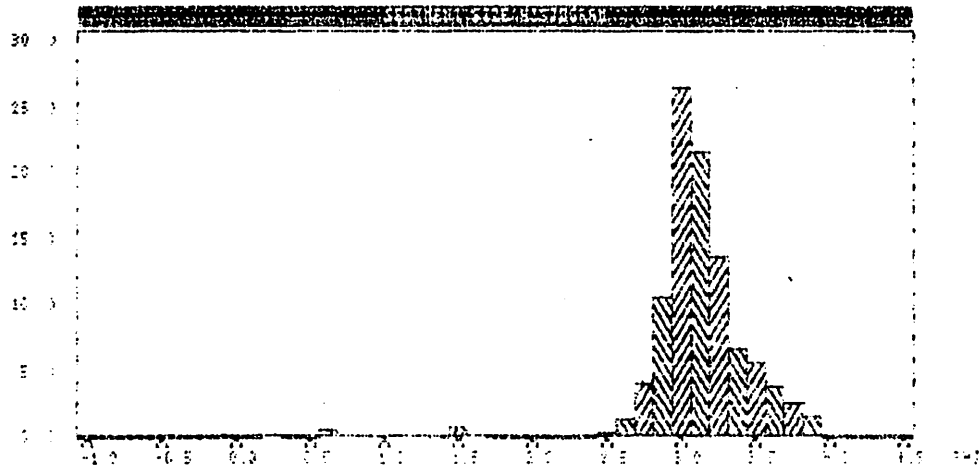
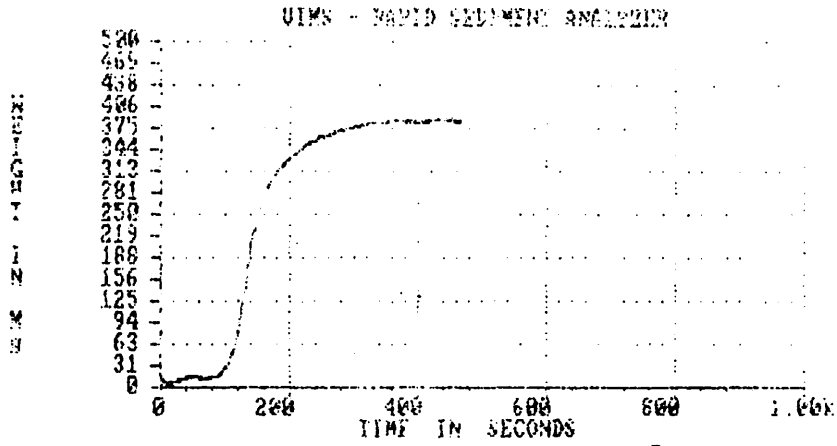
COPE 41 S-1 0-1.36M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
618.1953 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
3.0281 0.4192 -3.0208 18.8799 M1 M2 M3 M4 (phi)  
3.0660 3.0289 0.2659 0.2126 0.1936 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	0.0000	0.0000	0.0000	0.0000
0.0000	1.0000	11.8208	0.0000	0.0000	0.0000	0.0000
0.1250	0.9170	10.9848	0.0000	0.0000	0.0000	0.0000
0.2500	0.8409	10.1905	0.7671	0.2009	0.7671	0.2009
0.3750	0.7711	9.4370	0.0000	0.0000	0.7671	0.2009
0.5000	0.7071	8.7233	0.0000	0.0000	0.7671	0.2009
0.6250	0.6484	8.0484	2.3110	0.6054	3.0781	0.8063
0.7500	0.5946	7.4111	0.6995	0.1832	3.7777	0.9896
0.8750	0.5453	6.8104	0.6664	0.1746	4.4440	1.1641
1.0000	0.5000	6.2452	0.3728	0.0976	4.8168	1.2618
1.1250	0.4585	5.7143	0.4747	0.1243	5.2915	1.3861
1.2500	0.4204	5.2167	0.6897	0.1807	5.9812	1.5668
1.3750	0.3856	4.7510	0.0000	0.0000	5.9812	1.5668
1.5000	0.3536	4.3163	2.7632	0.7238	8.7444	2.2906
1.6250	0.3242	3.9113	0.7031	0.1842	9.4474	2.4748
1.7500	0.2973	3.5349	0.0738	0.0193	9.5212	2.4941
1.8750	0.2726	3.1860	0.0000	0.0000	9.5212	2.4941
2.0000	0.2500	2.8634	0.0000	0.0000	9.5212	2.4941
2.1250	0.2293	2.5660	0.0000	0.0000	9.5212	2.4941
2.2500	0.2102	2.2927	0.0000	0.0000	9.5212	2.4941
2.3750	0.1928	2.0423	0.0000	0.0000	9.5212	2.4941
2.5000	0.1768	1.8137	1.3854	0.3629	10.9066	2.8570
2.6250	0.1621	1.6058	5.4776	1.4349	16.3843	4.2919
2.7500	0.1487	1.4175	15.5025	4.0609	31.8868	8.3529
2.8750	0.1363	1.2476	40.0321	10.4866	71.9189	18.8394
3.0000	0.1250	1.0949	100.0228	26.2013	171.9416	45.0408
3.1250	0.1146	0.9582	81.7764	21.4216	253.7181	66.4624
3.2500	0.1051	0.8364	51.2983	13.4378	305.0164	79.9002
3.3750	0.0964	0.7282	25.1127	6.5784	330.1291	86.4786
3.5000	0.0884	0.6326	21.3055	5.5810	351.4346	92.0596
3.6250	0.0811	0.5484	14.2658	3.7370	365.7004	95.7966
3.7500	0.0743	0.4744	9.9887	2.6166	375.6890	98.4132
3.8750	0.0682	0.4098	6.0342	1.5807	381.7233	99.9939
4.0000	0.0625	0.3533	0.0000	0.0000	381.7233	99.9939
4.1250	0.0573	0.3043	0.0234	0.0061	381.7467	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	381.7467	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	381.7467	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	381.7467	100.0000

• - fall velocity of natural grains in fresh water at 20°C





C41\_S2

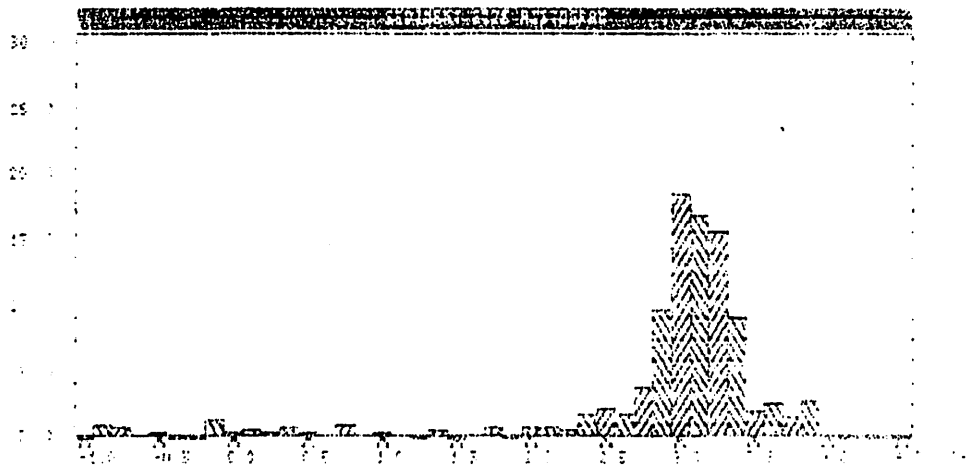
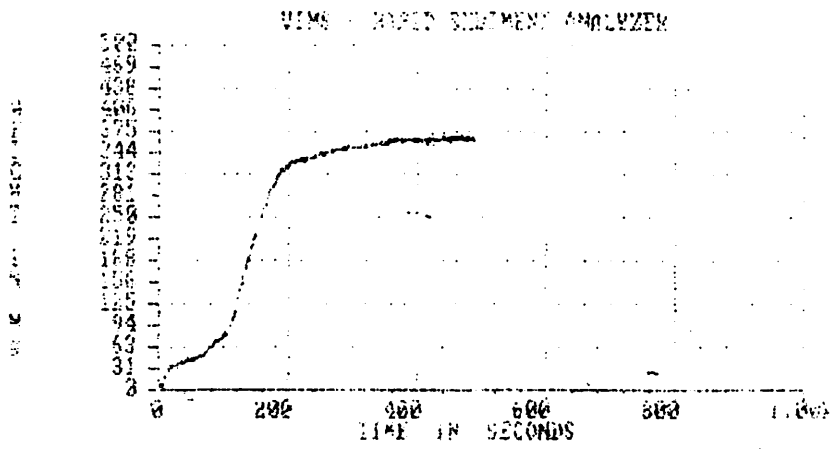
CORE 41 S-2 1.36-2.37M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
582.5453 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws=0.913  
2.7656 0.9217 -2.5049 9.0299 M1 M2 M3 M4 (phi)  
2.9353 3.0045 0.6976 -0.4569 0.6687 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	3.7699	1.0578	3.7699	1.0578
-0.7500	1.6818	17.7631	2.9716	0.8338	6.7415	1.8915
-0.6250	1.5422	16.6582	0.6368	0.1787	7.3783	2.0702
-0.5000	1.4142	15.6003	1.2066	0.3385	8.5849	2.4088
-0.3750	1.2968	14.5884	0.0000	0.0000	8.5849	2.4088
-0.2500	1.1892	13.6217	0.0000	0.0000	8.5849	2.4088
-0.1250	1.0905	12.6995	4.6813	1.3135	13.2661	3.7223
0.0000	1.0000	11.8208	1.0033	0.2815	14.2695	4.0038
0.1250	0.9170	10.9848	2.2000	0.6173	16.4695	4.6211
0.2500	0.8409	10.1905	1.1468	0.3218	17.6163	4.9428
0.3750	0.7711	9.4370	2.8819	0.8086	20.4982	5.7514
0.5000	0.7071	8.7233	1.4989	0.4206	21.9970	6.1720
0.6250	0.6484	8.0484	0.6787	0.1904	22.6757	6.3624
0.7500	0.5946	7.4111	3.3303	0.9344	26.0061	7.2969
0.8750	0.5453	6.8104	0.8421	0.2363	26.8481	7.5331
1.0000	0.5000	6.2452	1.1014	0.3090	27.9496	7.8422
1.1250	0.4585	5.7143	0.4275	0.1200	28.3771	7.9621
1.2500	0.4204	5.2167	0.0000	0.0000	28.3771	7.9621
1.3750	0.3856	4.7510	2.2885	0.6421	30.6656	8.6042
1.5000	0.3536	4.3163	0.0000	0.0000	30.6656	8.6042
1.6250	0.3242	3.9113	0.6946	0.1949	31.3602	8.7992
1.7500	0.2973	3.5349	3.0055	0.8433	34.3657	9.6424
1.8750	0.2726	3.1860	0.0000	0.0000	34.3657	9.6424
2.0000	0.2500	2.8634	2.8876	0.8102	37.2533	10.4527
2.1250	0.2293	2.5660	2.6977	0.7569	39.9510	11.2096
2.2500	0.2102	2.2927	1.8809	0.5277	41.8319	11.7373
2.3750	0.1928	2.0423	6.0656	1.7019	47.8974	13.4392
2.5000	0.1768	1.8137	8.1099	2.2755	56.0073	15.7147
2.6250	0.1621	1.6058	6.5959	1.8507	62.6032	17.5654
2.7500	0.1487	1.4175	13.8755	3.8932	76.4787	21.4586
2.8750	0.1363	1.2476	34.4083	9.6544	110.8870	31.1130
3.0000	0.1250	1.0949	65.1646	18.2841	176.0516	49.3971
3.1250	0.1146	0.9582	59.4555	16.6822	235.5071	66.0793
3.2500	0.1051	0.8364	55.5368	15.5827	291.0439	81.6620
3.3750	0.0964	0.7282	32.5753	9.1401	323.6191	90.8021
3.5000	0.0884	0.6326	7.1775	2.0139	330.7966	92.8160
3.6250	0.0811	0.5484	9.3001	2.6095	340.0967	95.4254
3.7500	0.0743	0.4744	5.8032	1.6283	345.8999	97.6537
3.8750	0.0682	0.4098	10.2214	2.8680	356.1213	99.9217
4.0000	0.0625	0.3533	0.2792	0.0783	356.4005	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	356.4005	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	356.4005	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	356.4005	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	356.4005	100.0000

fall velocity of natural grains in fresh water at 20°C



C41\_S3

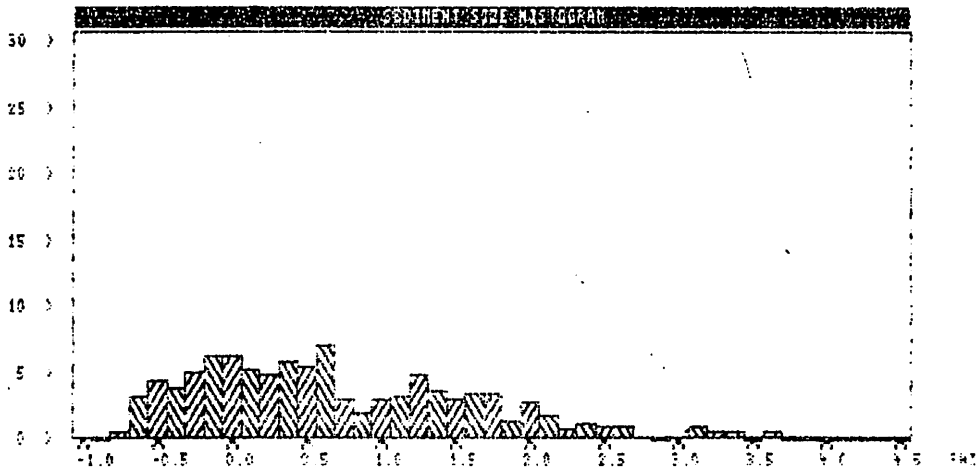
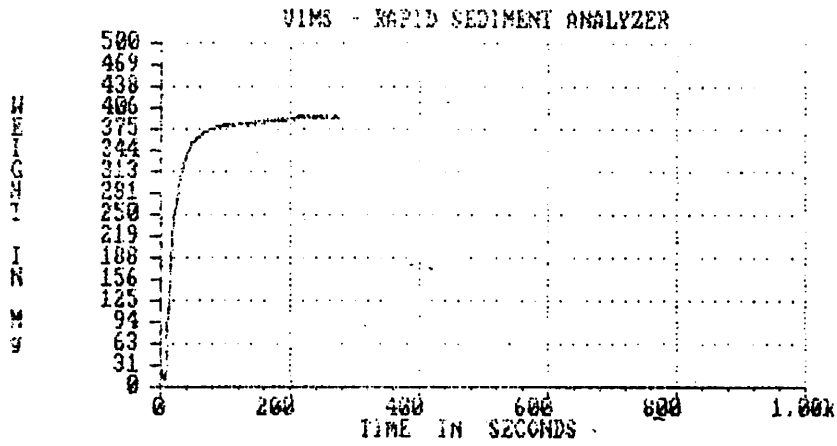
CORE 41 S-3 2.37-2.63M

VA. BEACH

0.0 0.0 0.000 Lat Lon Depth(m) Operator: CE  
626.4223 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.6482 0.9361 0.7084 3.0248 M1 M2 M3 M4 (phi)  
0.6081 0.4793 0.9253 0.2363 0.9151 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	$W_n(\text{cm/s})^*$	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.8199	0.2167	0.8199	0.2167
-0.8750	1.8340	18.9156	0.0000	0.0000	0.8199	0.2167
-0.7500	1.6818	17.7631	2.3054	0.6093	3.1253	0.8260
-0.6250	1.5422	16.6582	12.4069	3.2790	15.5322	4.1050
-0.5000	1.4142	15.6003	16.4626	4.3509	31.9949	8.4560
-0.3750	1.2968	14.5884	14.5079	3.8343	46.5027	12.2902
-0.2500	1.1892	13.6217	18.9056	4.9966	65.4083	17.2868
-0.1250	1.0905	12.6995	23.2113	6.1345	88.6195	23.4213
0.0000	1.0000	11.8208	23.7021	6.2643	112.3216	29.6856
0.1250	0.9170	10.9848	19.8808	5.2543	132.2024	34.9399
0.2500	0.8409	10.1905	18.0223	4.7631	150.2247	39.7030
0.3750	0.7711	9.4370	21.7812	5.7566	172.0058	45.4596
0.5000	0.7071	8.7233	20.5812	5.4394	192.5871	50.8990
0.6250	0.6484	8.0484	26.8629	7.0996	219.4499	57.9986
0.7500	0.5946	7.4111	11.3263	2.9934	230.7762	60.9921
0.8750	0.5453	6.8104	7.7664	2.0526	238.5426	63.0447
1.0000	0.5000	6.2452	11.1459	2.9458	249.6885	65.9904
1.1250	0.4585	5.7143	12.1199	3.2032	261.8084	69.1936
1.2500	0.4204	5.2167	17.9867	4.7537	279.7951	73.9473
1.3750	0.3856	4.7510	13.9455	3.6857	293.7406	77.6330
1.5000	0.3536	4.3163	11.1084	2.9358	304.8490	80.5688
1.6250	0.3242	3.9113	12.7578	3.3718	317.6068	83.9406
1.7500	0.2973	3.5349	12.5936	3.3284	330.2005	87.2690
1.8750	0.2726	3.1860	5.0829	1.3434	335.2834	88.6124
2.0000	0.2500	2.8634	10.6523	2.8153	345.9358	91.4277
2.1250	0.2293	2.5660	6.4465	1.7038	352.3823	93.1315
2.2500	0.2102	2.2927	3.1564	0.8342	355.5386	93.9657
2.3750	0.1928	2.0423	4.5651	1.2065	360.1038	95.1722
2.5000	0.1768	1.8137	3.3330	0.8809	363.4368	96.0531
2.6250	0.1621	1.6058	3.8673	1.0221	367.3041	97.0752
2.7500	0.1487	1.4175	0.6266	0.1656	367.9307	97.2408
2.8750	0.1363	1.2476	0.0000	0.0000	367.9307	97.2408
3.0000	0.1250	1.0949	0.4800	0.1269	368.4107	97.3676
3.1250	0.1146	0.9582	3.4894	0.9222	371.9001	98.2899
3.2500	0.1051	0.8364	2.3364	0.6175	374.2366	98.9074
3.3750	0.0964	0.7282	2.0459	0.5407	376.2824	99.4481
3.5000	0.0884	0.6326	0.0000	0.0000	376.2824	99.4481
3.6250	0.0811	0.5484	2.0884	0.5519	378.3708	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	378.3708	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	378.3708	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	378.3708	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	378.3708	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	378.3708	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	378.3708	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	378.3708	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C41\_54

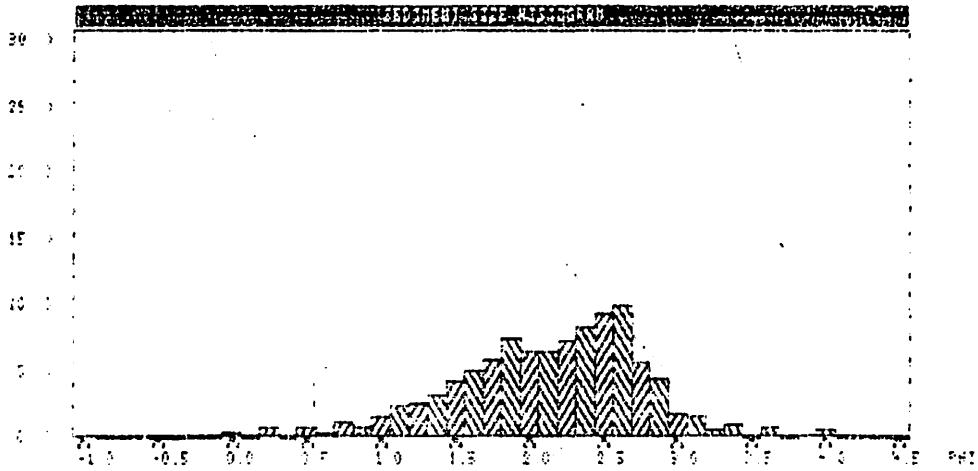
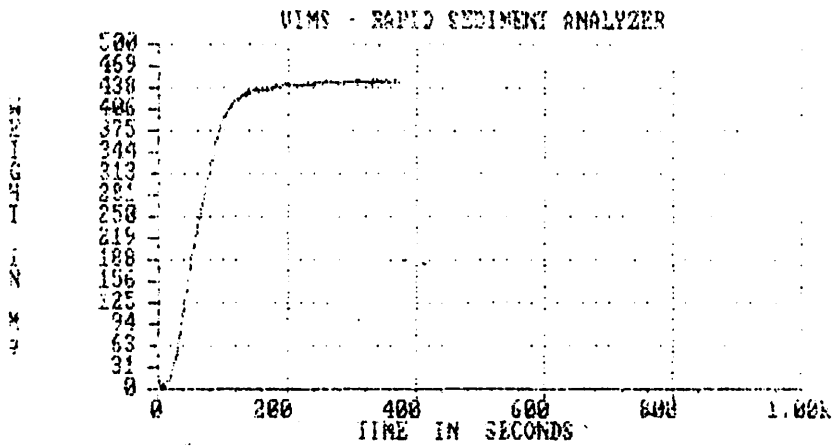
CORE 41 S-4 2.66-4.02M

VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 719.2691    Dry Sand Fraction Weight (mg)  
 2.65            Grain density / Natural Grain Fall Time using Wn=0.977W; 10.913  
 2.0602    0.6546    -0.5225    4.1544    M1 M2 M3 M4 (phi)  
 2.0682    2.1383    0.6089    -0.1810    0.4562    Mz,Md,Sl,Sk1,FG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.8273	0.1857	0.8273	0.1857
-0.8750	1.8340	18.9156	0.0000	0.0000	0.8273	0.1857
-0.7500	1.6818	17.7631	0.0455	0.0102	0.8728	0.1959
-0.6250	1.5422	16.6582	0.0000	0.0000	0.8728	0.1959
-0.5000	1.4142	15.6003	0.0000	0.0000	0.8728	0.1959
-0.3750	1.2968	14.5884	0.0000	0.0000	0.8728	0.1959
-0.2500	1.1892	13.6217	0.0000	0.0000	0.8728	0.1959
-0.1250	1.0905	12.6995	0.0000	0.0000	0.8728	0.1959
0.0000	1.0000	11.8208	1.2896	0.2895	2.1623	0.4854
0.1250	0.9170	10.9848	0.0000	0.0000	2.1623	0.4854
0.2500	0.8409	10.1905	3.3780	0.7583	5.5403	1.2438
0.3750	0.7711	9.4370	0.0000	0.0000	5.5403	1.2438
0.5000	0.7071	8.7233	3.0338	0.6811	8.5741	1.9248
0.6250	0.6484	8.0484	1.9038	0.4274	10.4779	2.3522
0.7500	0.5946	7.4111	5.6444	1.2671	16.1222	3.6193
0.8750	0.5453	6.8104	3.2884	0.7382	19.4106	4.3575
1.0000	0.5000	6.2452	6.8103	1.5288	26.2209	5.8864
1.1250	0.4585	5.7143	10.7092	2.4041	36.9300	8.2905
1.2500	0.4204	5.2167	11.3113	2.5393	48.2413	10.8298
1.3750	0.3856	4.7510	14.0503	3.1542	62.2916	13.9840
1.5000	0.3536	4.3163	19.0587	4.2785	81.3503	18.2625
1.6250	0.3242	3.9113	22.2623	4.9977	103.6126	23.2602
1.7500	0.2973	3.5349	25.7473	5.7801	129.3599	29.0403
1.8750	0.2726	3.1860	32.7288	7.3474	162.0888	36.3877
2.0000	0.2500	2.8634	28.5522	6.4098	190.6410	42.7974
2.1250	0.2293	2.5660	28.6794	6.4383	219.3204	49.2357
2.2500	0.2102	2.2927	32.0354	7.1917	251.3558	56.4274
2.3750	0.1928	2.0423	36.5848	8.2130	287.9407	64.6404
2.5000	0.1768	1.8137	40.9272	9.1878	328.8679	73.8283
2.6250	0.1621	1.6058	43.7985	9.8324	372.6664	83.6607
2.7500	0.1487	1.4175	25.2740	5.6738	397.9405	89.3245
2.8750	0.1363	1.2476	19.4383	4.3638	417.3788	93.6983
3.0000	0.1250	1.0949	7.7649	1.7432	425.1437	95.4414
3.1250	0.1146	0.9582	6.9781	1.5665	432.1218	97.0080
3.2500	0.1051	0.8364	2.1963	0.4930	434.3181	97.5010
3.3750	0.0964	0.7282	4.3082	0.9672	438.6263	98.4682
3.5000	0.0884	0.6326	0.0000	0.0000	438.6263	98.4682
3.6250	0.0811	0.5484	3.7449	0.8407	442.3712	99.3089
3.7500	0.0743	0.4744	0.0000	0.0000	442.3712	99.3089
3.8750	0.0682	0.4098	0.8943	0.2008	443.2654	99.5096
4.0000	0.0625	0.3533	2.1844	0.4904	445.4498	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	445.4498	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	445.4498	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	445.4498	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	445.4498	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S1

CORE 42 S-1 0-0.13M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

727.8878 Dry Sand Fraction Weight (mg)

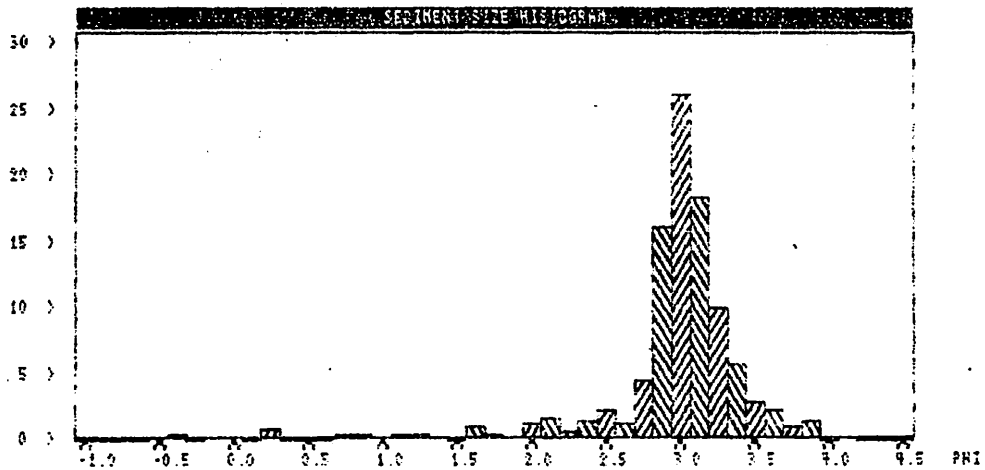
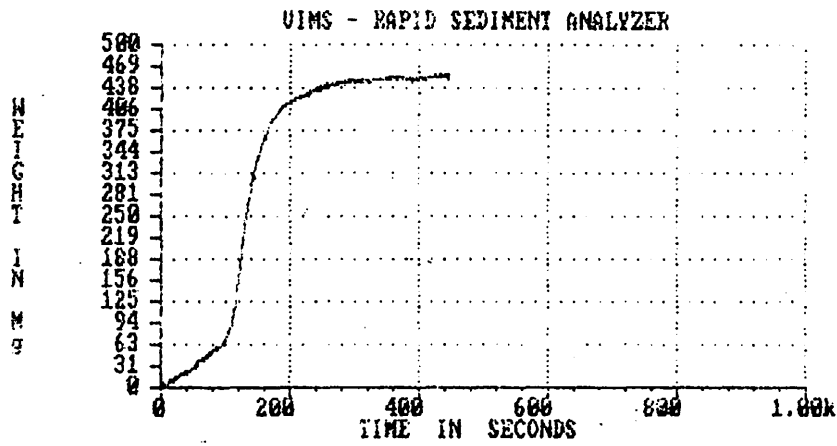
2.65 Grain density / Natural Grain Fall Time using  $W_n=0.977W_n^*0.913$

2.8705 0.5699 -2.8343 14.1126 M1 M2 M3 M4 (phi)

2.9619 2.9571 0.3563 -0.1503 0.3327 Mz,Md,Sl,SKl,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.2980	0.0661	0.2980	0.0661
-0.3750	1.2968	14.5884	1.2915	0.2865	1.5895	0.3526
-0.2500	1.1892	13.6217	0.0000	0.0000	1.5895	0.3526
-0.1250	1.0905	12.6995	1.0402	0.2307	2.6296	0.5833
0.0000	1.0000	11.8208	0.6323	0.1403	3.2619	0.7236
0.1250	0.9170	10.9848	0.0000	0.0000	3.2619	0.7236
0.2500	0.8409	10.1905	3.3062	0.7334	6.5681	1.4569
0.3750	0.7711	9.4370	0.1850	0.0410	6.7531	1.4980
0.5000	0.7071	8.7233	0.0000	0.0000	6.7531	1.4980
0.6250	0.6484	8.0484	0.0000	0.0000	6.7531	1.4980
0.7500	0.5946	7.4111	1.9790	0.4390	8.7321	1.9369
0.8750	0.5453	6.8104	1.5111	0.3352	10.2432	2.2721
1.0000	0.5000	6.2452	0.5742	0.1274	10.8174	2.3995
1.1250	0.4585	5.7143	2.0394	0.4524	12.8569	2.8519
1.2500	0.4204	5.2167	1.4049	0.3116	14.2617	3.1635
1.3750	0.3856	4.7510	1.0422	0.2312	15.3039	3.3947
1.5000	0.3536	4.3163	0.0000	0.0000	15.3039	3.3947
1.6250	0.3242	3.9113	4.0368	0.8954	19.3408	4.2901
1.7500	0.2973	3.5349	1.6895	0.3748	21.0303	4.6649
1.8750	0.2726	3.1860	0.4076	0.0904	21.4379	4.7553
2.0000	0.2500	2.8634	5.5708	1.2357	27.0087	5.9910
2.1250	0.2293	2.5660	7.0820	1.5709	34.0906	7.5619
2.2500	0.2102	2.2927	2.7588	0.6119	36.8494	8.1738
2.3750	0.1928	2.0423	6.1414	1.3623	42.9908	9.5361
2.5000	0.1768	1.8137	9.9423	2.2054	52.9331	11.7415
2.6250	0.1621	1.6058	5.3311	1.1825	58.2642	12.9240
2.7500	0.1487	1.4175	19.5215	4.3302	77.7857	17.2542
2.8750	0.1363	1.2476	71.4998	15.8599	149.2855	33.1141
3.0000	0.1250	1.0949	115.9439	25.7183	265.2294	58.8325
3.1250	0.1146	0.9582	81.7298	18.1291	346.9592	76.9615
3.2500	0.1051	0.8364	44.1417	9.7914	391.1009	86.7529
3.3750	0.0964	0.7282	25.2639	5.6040	416.3648	92.3569
3.5000	0.0884	0.6326	12.9233	2.8666	429.2881	95.2235
3.6250	0.0811	0.5484	9.7662	2.1663	439.0543	97.3898
3.7500	0.0743	0.4744	4.2680	0.9467	443.3223	98.3355
3.8750	0.0682	0.4098	6.5225	1.4468	449.8448	99.7833
4.0000	0.0625	0.3533	0.0000	0.0000	449.8448	99.7833
4.1250	0.0573	0.3043	0.9768	0.2167	450.8216	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	450.8216	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	450.8216	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	450.8216	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C42\_S2

CORE C2 S-2 0.13-0.15M

VA. BEACH

\* 0.0 0.0 0.00 Lat Lon Depth(m) Operator: CP

619.3706 Dry Sand Fraction Weight (mg)

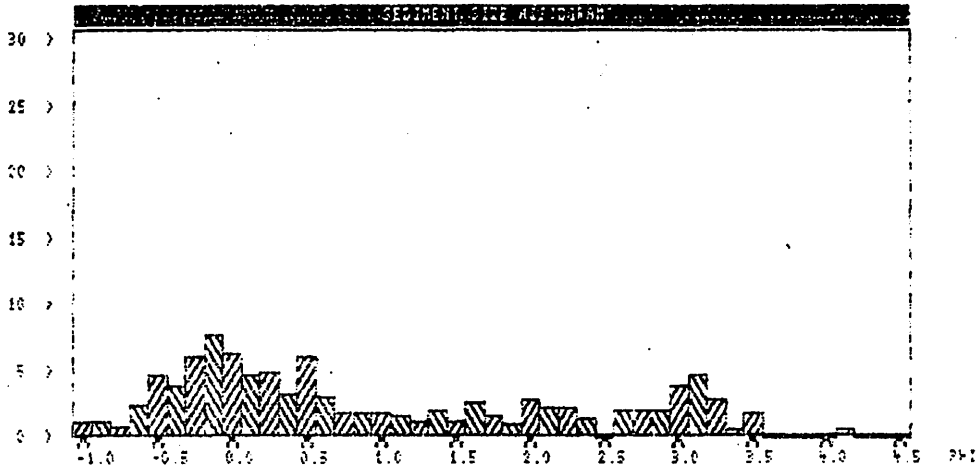
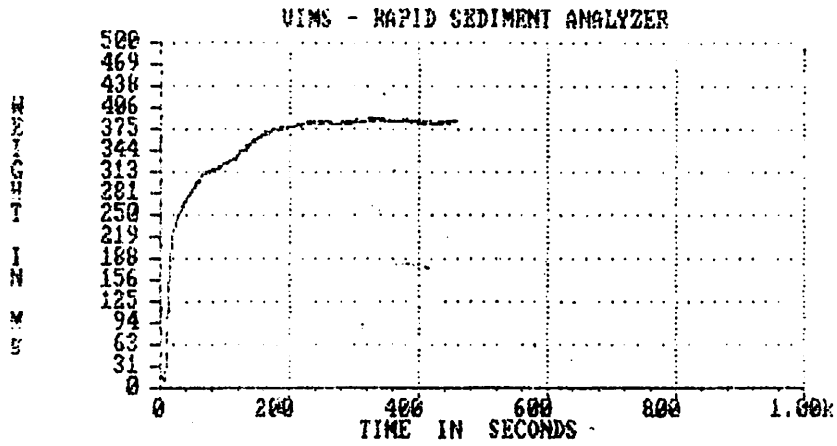
2.65 Grain density /Natural Grain Fall Time using Wn=0.977W=10.913

0.9157 1.3087 0.5484 1.9674 M1 M2 M3 M4 (phi)

0.9567 0.4537 1.3457 0.4542 0.7460 Ma, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	4.3182	1.1519	4.3182	1.1519
-0.8750	1.8340	18.9156	4.4996	1.2003	8.8178	2.3523
-0.7500	1.6818	17.7631	3.2222	0.8595	12.0400	3.2118
-0.6250	1.5422	16.6582	8.8029	2.3483	20.8429	5.5601
-0.5000	1.4142	15.6003	16.9263	4.5153	37.7693	10.0754
-0.3750	1.2968	14.5884	13.9234	3.7142	51.6927	13.7896
-0.2500	1.1892	13.6217	22.7087	6.0578	74.4014	19.8474
-0.1250	1.0905	12.6995	28.4060	7.5776	102.8074	27.4251
0.0000	1.0000	11.8208	23.0857	6.1584	125.8931	33.5834
0.1250	0.9170	10.9848	16.9645	4.5255	142.8575	38.1089
0.2500	0.8409	10.1905	18.2114	4.8581	161.0689	42.9670
0.3750	0.7711	9.4370	12.0630	3.2180	173.1319	46.1849
0.5000	0.7071	8.7233	22.7204	6.0609	195.8524	52.2459
0.6250	0.6484	8.0484	11.3948	3.0397	207.2472	55.2856
0.7500	0.5946	7.4111	6.9517	1.8544	214.1989	57.1400
0.8750	0.5453	6.8104	6.9197	1.8459	221.1186	58.9859
1.0000	0.5000	6.2452	6.3310	1.6889	227.4496	60.6748
1.1250	0.4585	5.7143	6.2362	1.6636	233.6858	62.3384
1.2500	0.4204	5.2167	4.0609	1.0833	237.7467	63.4217
1.3750	0.3856	4.7510	7.4822	1.9960	245.2289	65.4176
1.5000	0.3536	4.3163	4.6127	1.2305	249.8416	66.6481
1.6250	0.3242	3.9113	9.7084	2.5898	259.5500	69.2380
1.7500	0.2973	3.5349	6.1050	1.6286	265.6550	70.8665
1.8750	0.2726	3.1860	3.5551	0.9484	269.2100	71.8149
2.0000	0.2500	2.8634	10.4271	2.7815	279.6371	74.5964
2.1250	0.2293	2.5660	7.8850	2.1034	287.5221	76.6999
2.2500	0.2102	2.2927	8.1167	2.1652	295.6389	78.8651
2.3750	0.1928	2.0423	4.7961	1.2794	300.4350	80.1445
2.5000	0.1768	1.8137	0.0000	0.0000	300.4350	80.1445
2.6250	0.1621	1.6058	7.0526	1.8814	307.4876	82.0259
2.7500	0.1487	1.4175	7.6504	2.0408	315.1379	84.0667
2.8750	0.1363	1.2476	7.4752	1.9941	322.0132	86.0608
3.0000	0.1250	1.0949	14.3068	3.8165	336.9200	89.8773
3.1250	0.1146	0.9582	16.9686	4.5266	353.8885	94.4039
3.2500	0.1051	0.8364	10.1430	2.7058	364.0315	97.1096
3.3750	0.0964	0.7282	2.3622	0.6301	366.3937	97.7398
3.5000	0.0884	0.6326	6.5238	1.7403	372.9175	99.4801
3.6250	0.0811	0.5484	0.0000	0.0000	372.9175	99.4801
3.7500	0.0743	0.4744	0.0000	0.0000	372.9175	99.4801
3.8750	0.0682	0.4098	0.0000	0.0000	372.9175	99.4801
4.0000	0.0625	0.3533	0.0000	0.0000	372.9175	99.4801
4.1250	0.0573	0.3043	1.9491	0.5199	374.8666	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	374.8666	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.8666	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.8666	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S3

CORE 42 S-3 0.15-0.20M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(cm) Operator: CP

718.2587 Dry Sand Fraction Weight (mg)

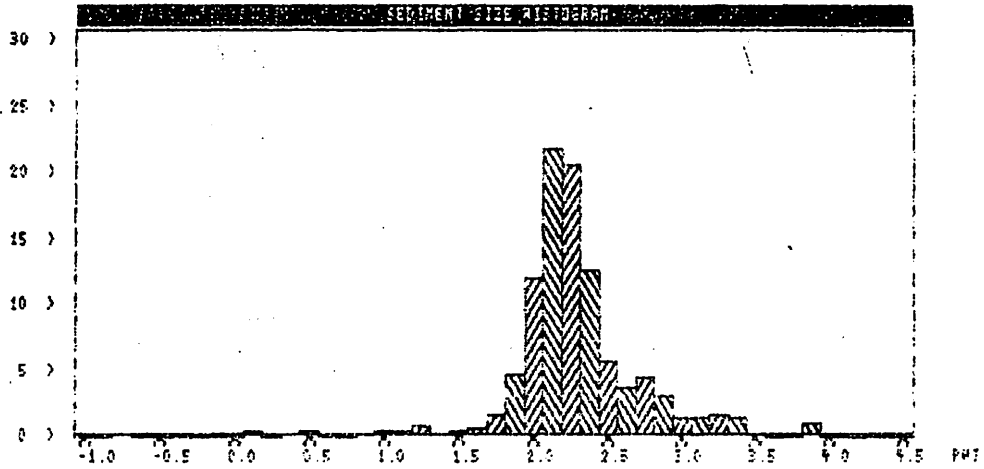
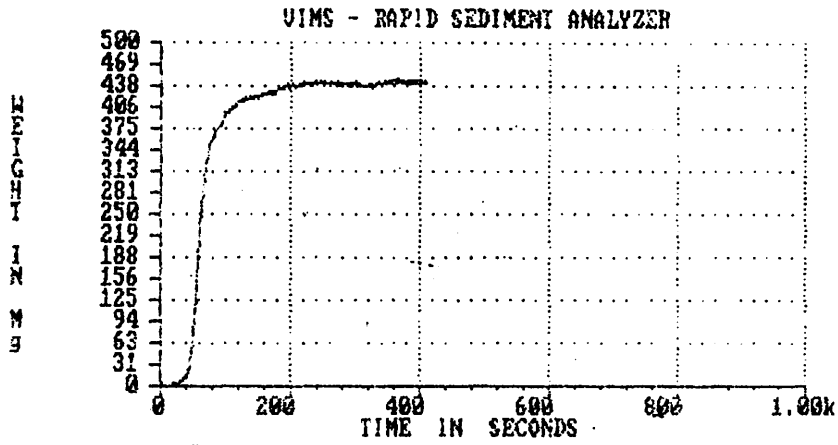
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$

2.2063 0.4634 -0.5725 9.6579 M1 M2 M3 M4 (phi)

2.2184 2.1624 0.3586 0.2844 0.3572 Mz, Md, Sl, Skl, Kg

Size(phi)	Size(mm)	$W_n(cm/s)^*$	Im.Wt(mg)	Im.Wt(%)	Om.Wt(mg)	Om.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.6579	0.1463	0.6579	0.1463
-0.6250	1.5422	16.6582	0.0000	0.0000	0.6579	0.1463
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6579	0.1463
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6579	0.1463
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6579	0.1463
-0.1250	1.0905	12.6995	0.0000	0.0000	0.6579	0.1463
0.0000	1.0000	11.8208	0.0000	0.0000	0.6579	0.1463
0.1250	0.9170	10.9848	1.9384	0.4310	2.5963	0.5773
0.2500	0.8409	10.1905	0.0000	0.0000	2.5963	0.5773
0.3750	0.7711	9.4370	1.1443	0.2544	3.7406	0.8317
0.5000	0.7071	8.7233	1.8856	0.4193	5.6262	1.2510
0.6250	0.6484	8.0484	0.0000	0.0000	5.6262	1.2510
0.7500	0.5946	7.4111	0.0000	0.0000	5.6262	1.2510
0.8750	0.5453	6.8104	0.4548	0.1011	6.0811	1.3521
1.0000	0.5000	6.2452	1.9028	0.4231	7.9839	1.7752
1.1250	0.4585	5.7143	1.7684	0.3932	9.7523	2.1684
1.2500	0.4204	5.2167	3.4995	0.7781	13.2518	2.9465
1.3750	0.3856	4.7510	0.7938	0.1765	14.0455	3.1230
1.5000	0.3536	4.3163	2.0566	0.4573	16.1021	3.5803
1.6250	0.3242	3.9113	2.2870	0.5085	18.3891	4.0888
1.7500	0.2973	3.5349	7.2724	1.6170	25.6615	5.7058
1.8750	0.2726	3.1860	21.1449	4.7016	46.8064	10.4074
2.0000	0.2500	2.8634	53.6174	11.9218	100.4238	22.3292
2.1250	0.2293	2.5660	97.1044	21.5911	197.5283	43.9203
2.2500	0.2102	2.2927	91.3387	20.3091	288.8669	64.2295
2.3750	0.1928	2.0423	56.2436	12.5057	345.1105	76.7352
2.5000	0.1768	1.8137	24.8299	5.5209	369.9404	82.2561
2.6250	0.1621	1.6058	16.5910	3.6890	386.5315	85.9451
2.7500	0.1487	1.4175	19.7058	4.3816	406.2372	90.3267
2.8750	0.1363	1.2476	13.2753	2.9518	419.5126	93.2785
3.0000	0.1250	1.0949	6.3187	1.4050	425.8213	94.6834
3.1250	0.1146	0.9582	5.8308	1.2965	431.6620	95.9799
3.2500	0.1051	0.8364	6.6301	1.4742	438.2921	97.4541
3.3750	0.0964	0.7282	6.3859	1.4199	444.6780	98.8740
3.5000	0.0884	0.6326	0.5641	0.1254	445.2422	98.9994
3.6250	0.0811	0.5484	0.0000	0.0000	445.2422	98.9994
3.7500	0.0743	0.4744	0.0000	0.0000	445.2422	98.9994
3.8750	0.0682	0.4098	4.5000	1.0006	449.7421	100.0000
4.0000	0.0625	0.3532	0.0000	0.0000	449.7421	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	449.7421	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	449.7421	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	449.7421	100.0000
4.5000	0.0442	0.1920	0.0000	0.0000	449.7421	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



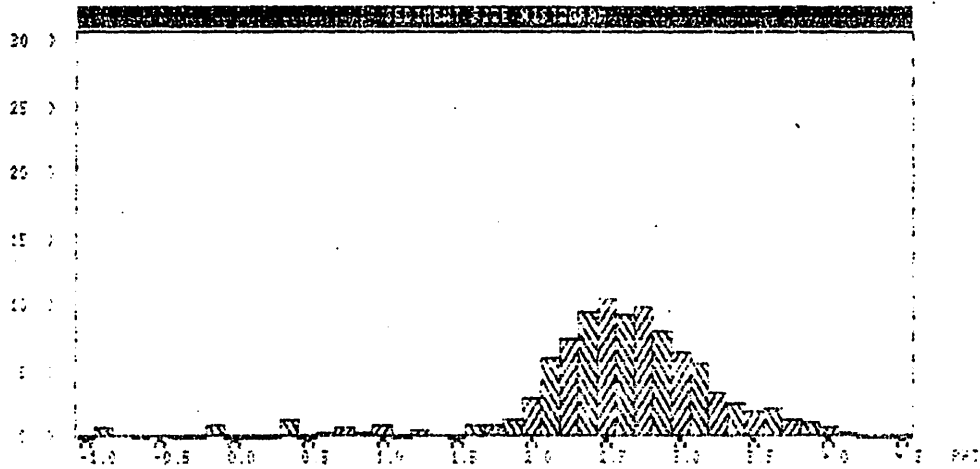
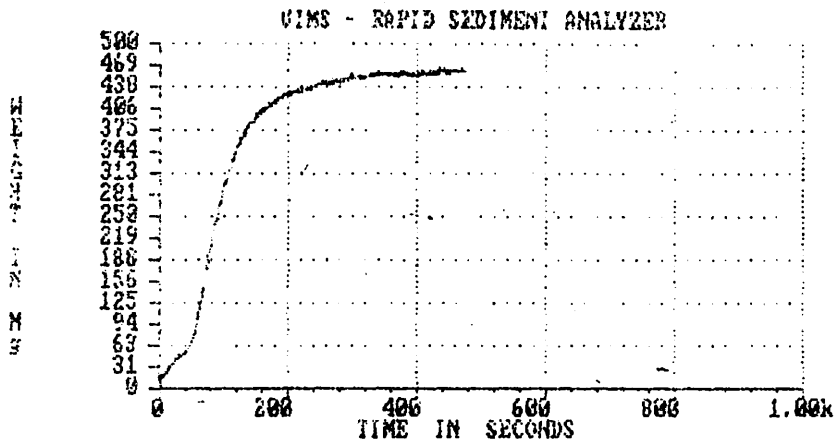
C42\_S4

CORE 42 S-4 0.2-0.40M

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CR  
740.8258 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=1.97/Wa=1.913  
2.4807 0.7603 -1.5840 7.6481 M1 M2 M3 M4 (phi)  
2.5590 2.5435 0.6591 -0.0988 0.5524 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	3.5083	0.7854	3.5083	0.7854
-0.7500	1.6818	17.7631	0.4033	0.0903	3.9117	0.8757
-0.6250	1.5422	16.6582	0.0000	0.0000	3.9117	0.8757
-0.5000	1.4142	15.6003	0.5904	0.1322	4.5021	1.0079
-0.3750	1.2968	14.5884	0.0000	0.0000	4.5021	1.0079
-0.2500	1.1892	13.6217	0.0000	0.0000	4.5021	1.0079
-0.1250	1.0905	12.6995	4.2607	0.9538	8.7628	1.9617
0.0000	1.0000	11.8208	0.0000	0.0000	8.7628	1.9617
0.1250	0.9170	10.9848	0.0000	0.0000	8.7628	1.9617
0.2500	0.8409	10.1905	0.0000	0.0000	8.7628	1.9617
0.3750	0.7711	9.4370	6.3456	1.4205	15.1084	3.3822
0.5000	0.7071	8.7233	0.0000	0.0000	15.1084	3.3822
0.6250	0.6484	8.0484	1.6853	0.3773	16.7937	3.7595
0.7500	0.5946	7.4111	3.4637	0.7754	20.2574	4.5349
0.8750	0.5453	6.8104	1.8180	0.4070	22.0754	4.9419
1.0000	0.5000	6.2452	4.4869	1.0045	26.5623	5.9464
1.1250	0.4585	5.7143	0.0907	0.0203	26.6530	5.9667
1.2500	0.4204	5.2167	2.5691	0.5751	29.2221	6.5418
1.3750	0.3856	4.7510	1.1582	0.2593	30.3804	6.8011
1.5000	0.3536	4.3163	0.0000	0.0000	30.3804	6.8011
1.6250	0.3242	3.9113	4.6499	1.0409	35.0302	7.8420
1.7500	0.2973	3.5349	4.2448	0.9503	39.2750	8.7923
1.8750	0.2726	3.1860	6.0945	1.3643	45.3695	10.1566
2.0000	0.2500	2.8634	13.4762	3.0168	58.8458	13.1735
2.1250	0.2293	2.5660	27.1320	6.0739	85.9778	19.2474
2.2500	0.2102	2.2927	33.3869	7.4742	119.3647	26.7215
2.3750	0.1928	2.0423	42.5693	9.5298	161.9340	36.2513
2.5000	0.1768	1.8137	46.9480	10.5100	208.8820	46.7613
2.6250	0.1621	1.6058	41.5911	9.3108	250.4730	56.0721
2.7500	0.1487	1.4175	44.4723	9.9558	294.9453	66.0278
2.8750	0.1363	1.2476	35.9427	8.0463	330.8880	74.0741
3.0000	0.1250	1.0949	29.1316	6.5215	360.0197	80.5957
3.1250	0.1146	0.9582	25.2176	5.6453	385.2373	86.2410
3.2500	0.1051	0.8364	15.2624	3.4167	400.4997	89.6577
3.3750	0.0964	0.7282	11.2385	2.5159	411.7382	92.1736
3.5000	0.0884	0.6326	8.5219	1.9077	420.2601	94.0814
3.6250	0.0811	0.5484	9.4746	2.1210	429.7347	96.2024
3.7500	0.0743	0.4744	5.9157	1.3243	435.6504	97.5267
3.8750	0.0682	0.4098	5.6341	1.2613	441.2845	98.7880
4.0000	0.0625	0.3533	3.4021	0.7616	444.6866	99.5496
4.1250	0.0573	0.3043	2.0119	0.4504	446.6985	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	446.6985	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	446.6985	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	446.6985	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S5

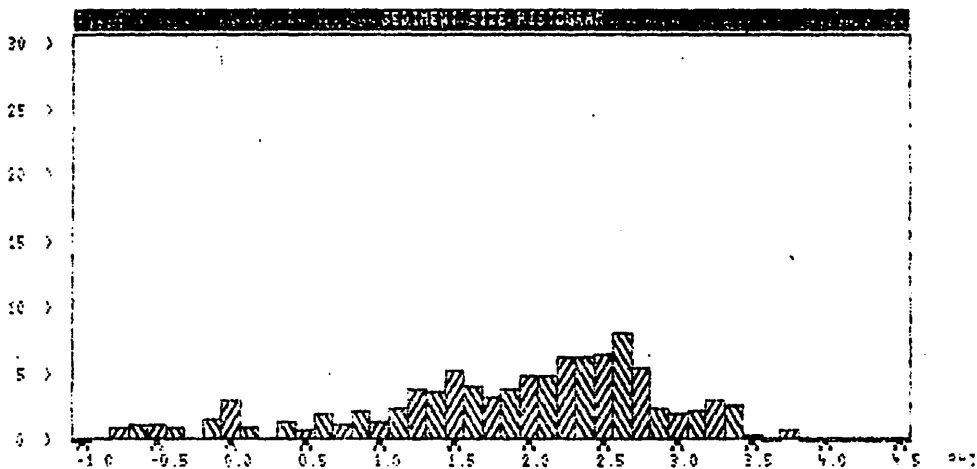
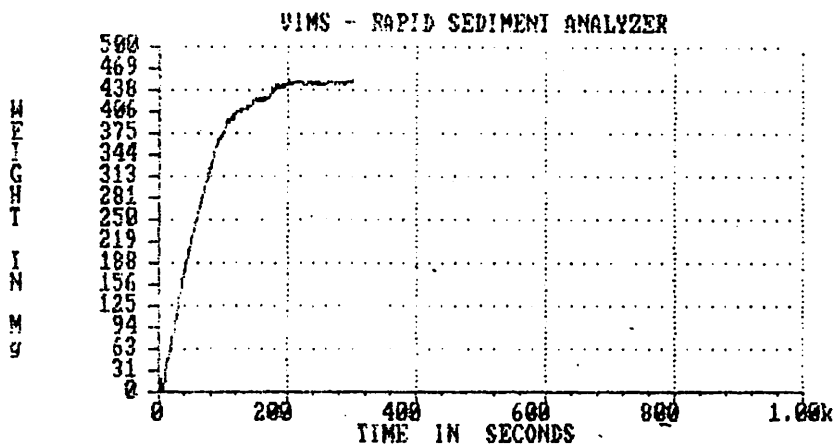
CORE 42 S-5 0.48-0.57M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
723.5785 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws^0.913  
1.7845 1.0083 -0.7165 2.9210 M1 M2 M3 M4 (phi)  
1.8134 1.9970 0.9967 -0.2944 0.6944 Mz,Md,S1,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.3350	0.0749	0.3350	0.0749
-0.7500	1.6818	17.7631	4.1949	0.9382	4.5299	1.0131
-0.6250	1.5422	16.6582	4.9145	1.0991	9.4444	2.1122
-0.5000	1.4142	15.6003	5.5649	1.2446	15.0092	3.3567
-0.3750	1.2968	14.5884	4.7690	1.0666	19.7782	4.4233
-0.2500	1.1892	13.6217	1.0834	0.2423	20.8616	4.6656
-0.1250	1.0905	12.6995	7.3019	1.6330	28.1635	6.2986
0.0000	1.0000	11.8208	13.4893	3.0168	41.6528	9.3154
0.1250	0.9170	10.9848	3.9697	0.8878	45.6225	10.2032
0.2500	0.8409	10.1905	0.6495	0.1453	46.2720	10.3485
0.3750	0.7711	9.4370	6.5755	1.4706	52.8476	11.8191
0.5000	0.7071	8.7233	3.4338	0.7679	56.2813	12.5870
0.6250	0.6484	8.0484	9.0227	2.0179	65.3040	14.6049
0.7500	0.5946	7.4111	5.2768	1.1801	70.5808	15.7850
0.8750	0.5453	6.8104	9.5196	2.1290	80.1004	17.9140
1.0000	0.5000	6.2452	5.8174	1.3010	85.9179	19.2151
1.1250	0.4585	5.7143	10.4362	2.3340	96.3540	21.5491
1.2500	0.4204	5.2167	17.0546	3.8142	113.4087	25.3633
1.3750	0.3856	4.7510	16.2092	3.6251	129.6178	28.9884
1.5000	0.3536	4.3163	23.4190	5.2375	153.0369	34.2259
1.6250	0.3242	3.9113	17.9162	4.0069	170.9531	38.2328
1.7500	0.2973	3.5349	14.5426	3.2524	185.4956	41.4851
1.8750	0.2726	3.1860	17.3357	3.8770	202.8313	45.3622
2.0000	0.2500	2.8634	21.2410	4.7504	224.0723	50.1126
2.1250	0.2293	2.5660	21.3088	4.7656	245.3811	54.8782
2.2500	0.2102	2.2927	27.4131	6.1308	272.7942	61.0090
2.3750	0.1928	2.0423	27.6281	6.1789	300.4223	67.1879
2.5000	0.1768	1.8137	28.5101	6.3761	328.9324	73.5640
2.6250	0.1621	1.6058	36.0872	8.0707	365.0197	81.6348
2.7500	0.1487	1.4175	23.8402	5.3317	388.8599	86.9665
2.8750	0.1363	1.2476	10.9638	2.4520	399.8237	89.4185
3.0000	0.1250	1.0949	8.3970	1.8779	408.2206	91.2964
3.1250	0.1146	0.9582	9.6909	2.1673	417.9115	93.4637
3.2500	0.1051	0.8364	13.3563	2.9871	431.2678	96.4508
3.3750	0.0964	0.7282	11.2920	2.5254	442.5598	98.9762
3.5000	0.0884	0.6326	1.1936	0.2670	443.7534	99.2432
3.6250	0.0811	0.5484	0.0000	0.0000	443.7534	99.2432
3.7500	0.0743	0.4744	3.3841	0.7568	447.1376	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	447.1376	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	447.1376	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	447.1376	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	447.1376	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	447.1376	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	447.1376	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C42\_S6

CORE 42 S-6 0.57-1.57M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
589.2052 Dry Sand Fraction Weight (mg)

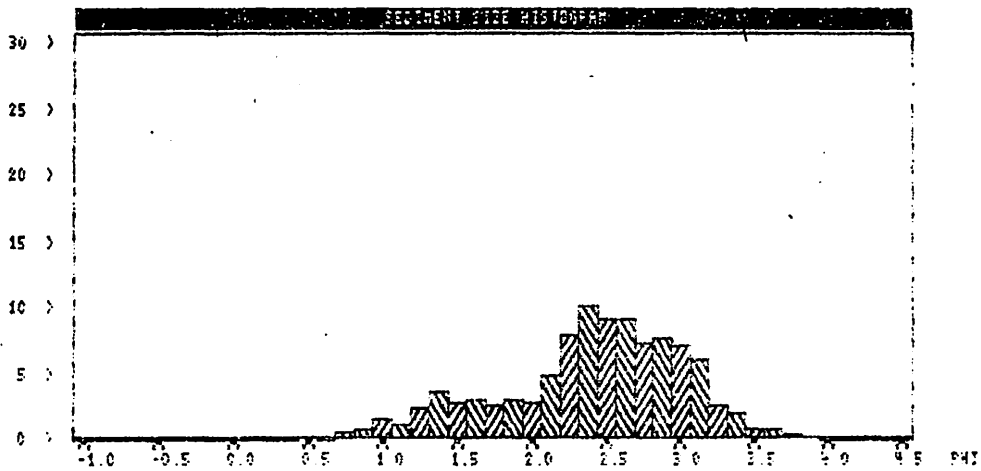
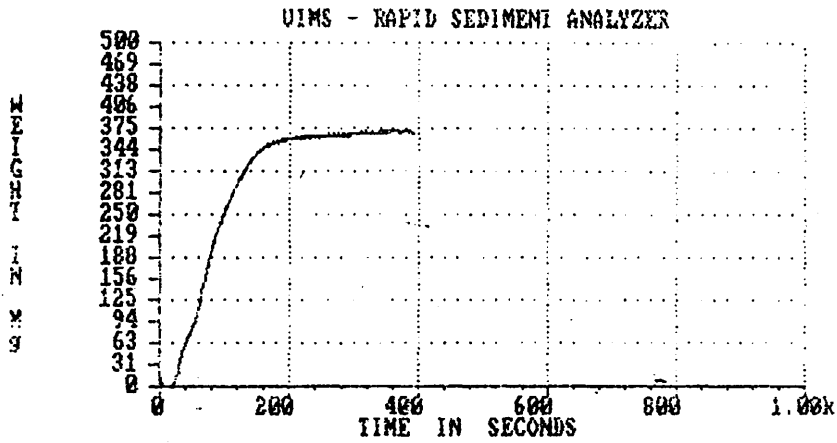
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s+0.913$

2.3345 0.6224 -0.5751 2.9837 M1 M2 M3 M4 (phi)

2.3261 2.4114 0.6373 -0.2096 0.4258 Mz,Md,S1,SK1,FG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.2028	0.0544	0.2028	0.0544
-0.1250	1.0905	12.6995	0.0000	0.0000	0.2028	0.0544
0.0000	1.0000	11.8208	0.0000	0.0000	0.2028	0.0544
0.1250	0.9170	10.9848	0.0000	0.0000	0.2028	0.0544
0.2500	0.8409	10.1905	0.0000	0.0000	0.2028	0.0544
0.3750	0.7711	9.4370	0.0000	0.0000	0.2028	0.0544
0.5000	0.7071	8.7233	0.5577	0.1497	0.7605	0.2041
0.6250	0.6484	8.0484	0.0000	0.0000	0.7605	0.2041
0.7500	0.5946	7.4111	2.1801	0.5850	2.9405	0.7891
0.8750	0.5453	6.8104	3.2073	0.8607	6.1478	1.6498
1.0000	0.5000	6.2452	5.5053	1.4774	11.6532	3.1272
1.1250	0.4585	5.7143	4.3503	1.1674	16.0035	4.2946
1.2500	0.4204	5.2167	8.6201	2.3132	24.6236	6.6078
1.3750	0.3856	4.7510	13.0978	3.5148	37.7214	10.1226
1.5000	0.3536	4.3163	10.5690	2.8362	48.2904	12.9588
1.6250	0.3242	3.9113	11.1958	3.0044	59.4862	15.9633
1.7500	0.2973	3.5349	9.6096	2.5788	69.0958	18.5420
1.8750	0.2726	3.1860	11.3736	3.0521	80.4694	21.5942
2.0000	0.2500	2.8634	10.6197	2.8498	91.0891	24.4440
2.1250	0.2293	2.5660	18.0616	4.8469	109.1507	29.2909
2.2500	0.2102	2.2927	29.5043	7.9175	138.6550	37.2084
2.3750	0.1928	2.0423	37.8556	10.1587	176.5106	47.3671
2.5000	0.1768	1.8137	33.7074	9.0455	210.2180	56.4126
2.6250	0.1621	1.6058	33.4832	8.9853	243.7012	65.3979
2.7500	0.1487	1.4175	26.9945	7.2440	270.6957	72.6419
2.8750	0.1363	1.2476	28.8244	7.7351	299.5201	80.3770
3.0000	0.1250	1.0949	25.9183	6.9553	325.4384	87.3323
3.1250	0.1146	0.9582	22.7253	6.0984	348.1637	93.4307
3.2500	0.1051	0.8364	9.4731	2.5421	357.6368	95.9728
3.3750	0.0964	0.7282	7.7285	2.0740	365.3653	98.0468
3.5000	0.0884	0.6326	2.5825	0.6930	367.9478	98.7398
3.6250	0.0811	0.5484	2.7096	0.7271	370.6574	99.4669
3.7500	0.0743	0.4744	1.6004	0.4295	372.2579	99.8964
3.8750	0.0682	0.4098	0.3861	0.1036	372.6440	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	372.6440	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	372.6440	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	372.6440	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	372.6440	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S7

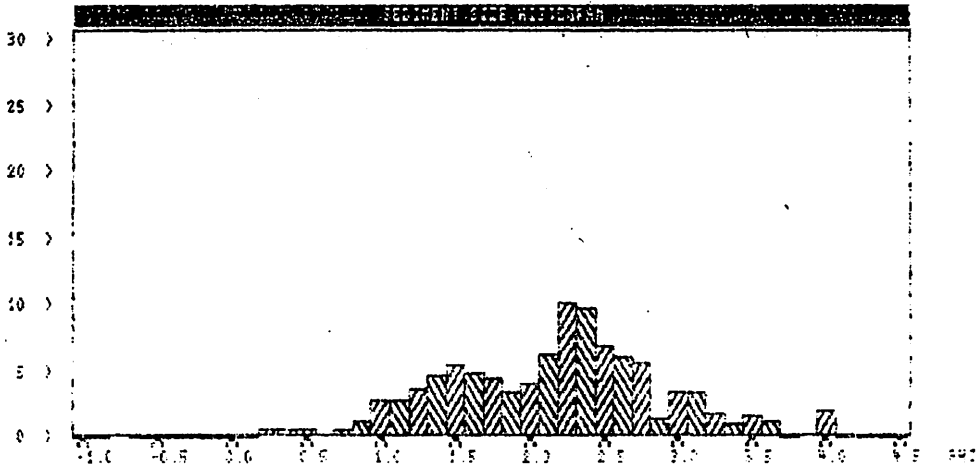
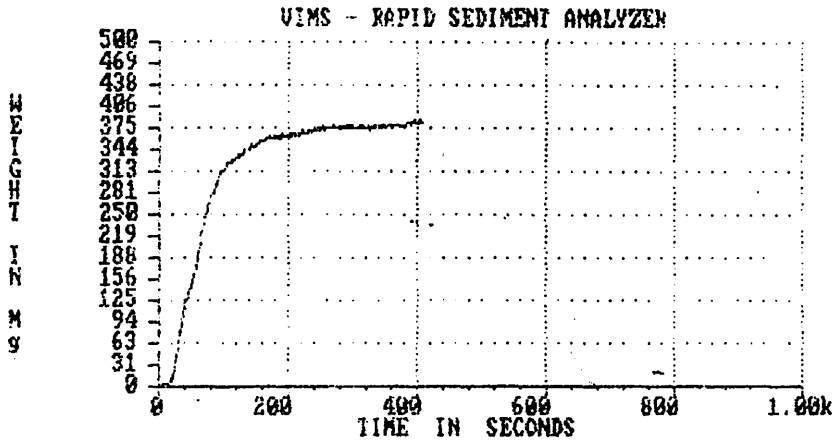
CORE 42 S-7 1.57-2.05M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
616.6283 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.1000 0.7414 -0.0440 3.1710 M1 M2 M3 M4 (phi)  
2.0825 2.1731 0.7247 -0.1058 0.5222 Ma,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.6403	0.1663	0.6403	0.1663
-0.6250	1.5422	16.6582	0.0000	0.0000	0.6403	0.1663
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6403	0.1663
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6403	0.1663
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6403	0.1663
-0.1250	1.0905	12.6995	0.0000	0.0000	0.6403	0.1663
0.0000	1.0000	11.8208	0.0000	0.0000	0.6403	0.1663
0.1250	0.9170	10.9848	0.0000	0.0000	0.6403	0.1663
0.2500	0.8409	10.1905	2.2879	0.5941	2.9282	0.7604
0.3750	0.7711	9.4370	1.9702	0.5116	4.8984	1.2720
0.5000	0.7071	8.7233	2.1629	0.5616	7.0613	1.8336
0.6250	0.6484	8.0484	0.8435	0.2190	7.9048	2.0526
0.7500	0.5946	7.4111	2.2550	0.5856	10.1598	2.6382
0.8750	0.5453	6.8104	4.4065	1.1442	14.5662	3.7824
1.0000	0.5000	6.2452	11.0726	2.8752	25.6389	6.6577
1.1250	0.4585	5.7143	11.0979	2.8818	36.7367	9.5395
1.2500	0.4204	5.2167	13.8574	3.5984	50.5941	13.1378
1.3750	0.3856	4.7510	17.7638	4.6128	68.3578	17.7506
1.5000	0.3536	4.3163	20.9738	5.4463	89.3316	23.1969
1.6250	0.3242	3.9113	18.8402	4.8923	108.1718	28.0892
1.7500	0.2973	3.5349	16.7727	4.3554	124.9445	32.4446
1.8750	0.2726	3.1860	13.4259	3.4863	138.3704	35.9309
2.0000	0.2500	2.8634	15.0693	3.9131	153.4396	39.8439
2.1250	0.2293	2.5660	24.2169	6.2884	177.6566	46.1324
2.2500	0.2102	2.2927	38.7027	10.0500	216.3592	56.1824
2.3750	0.1928	2.0423	37.0101	9.6105	253.3694	65.7929
2.5000	0.1768	1.8137	26.3817	6.8506	279.7510	72.6434
2.6250	0.1621	1.6058	22.8101	5.9231	302.5611	78.5666
2.7500	0.1487	1.4175	21.4798	5.5777	324.0409	84.1443
2.8750	0.1363	1.2476	5.2349	1.3593	329.2758	85.5036
3.0000	0.1250	1.0949	13.2593	3.4431	342.5351	88.9467
3.1250	0.1146	0.9582	13.2625	3.4439	355.7976	92.3906
3.2500	0.1051	0.8364	6.6347	1.7228	362.4322	94.1134
3.3750	0.0964	0.7282	3.5744	0.9282	366.0066	95.0416
3.5000	0.0884	0.6326	6.0678	1.5756	372.0745	96.6172
3.6250	0.0811	0.5484	4.7244	1.2268	376.7988	97.8440
3.7500	0.0743	0.4744	0.0000	0.0000	376.7988	97.8440
3.8750	0.0682	0.4098	0.6288	0.1633	377.4276	98.0073
4.0000	0.0625	0.3533	7.6740	1.9927	385.1016	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	385.1016	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	385.1016	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	385.1016	100.0000

\* - fall velocity of natural grains in fresh water at 20cC



C42\_58

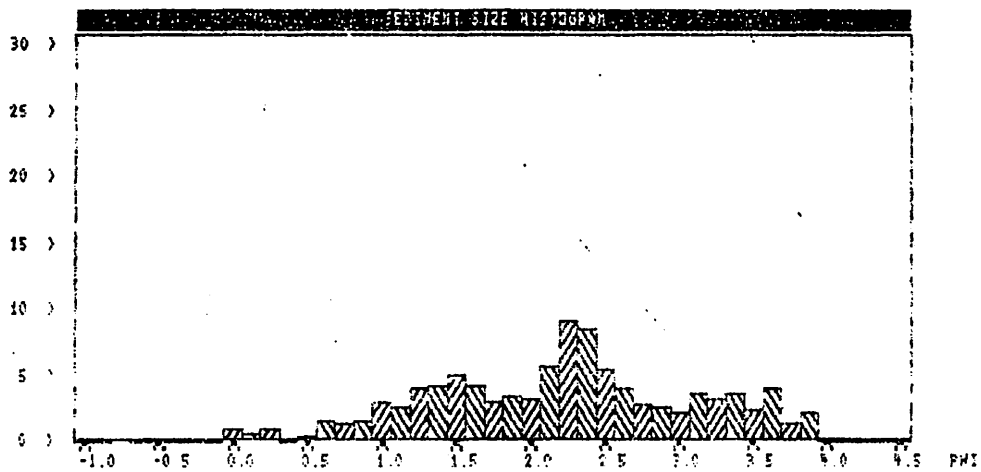
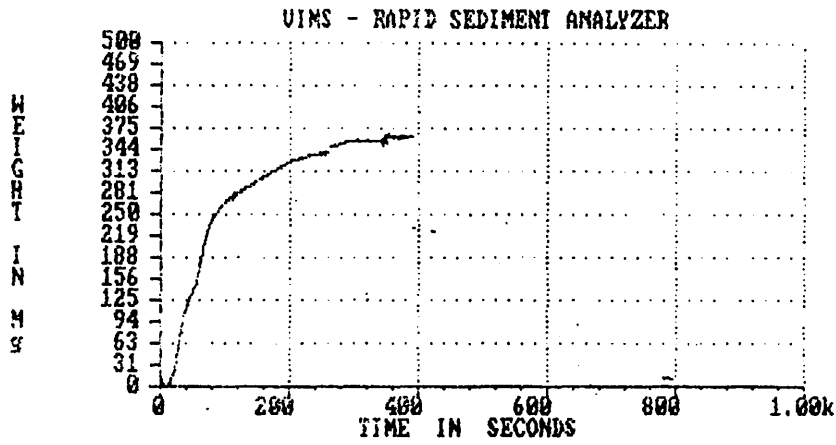
CORE 42 S-8 2.05-2.30M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
581.3700 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wb\*0.913  
2.1357 0.8860 -0.1559 2.5915 M1 M2 M3 M4 (phi)  
2.1842 2.1867 0.9212 -0.0216 0.5535 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.6901	0.1890	0.6901	0.1890
-0.6250	1.5422	16.6582	0.0000	0.0000	0.6901	0.1890
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6901	0.1890
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6901	0.1890
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6901	0.1890
-0.1250	1.0905	12.6995	0.0000	0.0000	0.6901	0.1890
0.0000	1.0000	11.8208	3.2436	0.8882	3.9337	1.0772
0.1250	0.9170	10.9848	1.7052	0.4669	5.6389	1.5441
0.2500	0.8409	10.1905	3.2582	0.8922	8.8971	2.4363
0.3750	0.7711	9.4370	0.0000	0.0000	8.8971	2.4363
0.5000	0.7071	8.7233	0.9865	0.2701	9.8835	2.7064
0.6250	0.6484	8.0484	6.0391	1.6537	15.9227	4.3602
0.7500	0.5946	7.4111	4.9402	1.3528	20.8629	5.7130
0.8750	0.5453	6.8104	5.9212	1.6214	26.7841	7.3344
1.0000	0.5000	6.2452	11.1952	3.0656	37.9792	10.4000
1.1250	0.4585	5.7143	9.8046	2.6848	47.7839	13.0848
1.2500	0.4204	5.2167	14.4893	3.9677	62.2731	17.0525
1.3750	0.3856	4.7510	15.4884	4.2412	77.7615	21.2937
1.5000	0.3536	4.3163	18.1035	4.9573	95.8650	26.2511
1.6250	0.3242	3.9113	15.5379	4.2548	111.4029	30.5059
1.7500	0.2973	3.5349	10.9968	3.0113	122.3998	33.5172
1.8750	0.2726	3.1860	12.0446	3.2982	134.4443	36.8154
2.0000	0.2500	2.8634	11.5611	3.1658	146.0054	39.9812
2.1250	0.2293	2.5660	20.1791	5.5257	166.1845	45.5069
2.2500	0.2102	2.2927	33.2350	9.1009	199.4195	54.6078
2.3750	0.1928	2.0423	30.7935	8.4323	230.2130	63.0401
2.5000	0.1768	1.8137	19.7788	5.4161	249.9917	68.4561
2.6250	0.1621	1.6058	14.5830	3.9933	264.5747	72.4495
2.7500	0.1487	1.4175	9.8701	2.7028	274.4448	75.1522
2.8750	0.1363	1.2476	9.1036	2.4929	283.5485	77.6451
3.0000	0.1250	1.0949	7.8468	2.1487	291.3953	79.7938
3.1250	0.1146	0.9582	13.1603	3.6037	304.5556	83.3976
3.2500	0.1051	0.8364	11.4009	3.1219	315.9564	86.5195
3.3750	0.0964	0.7282	13.2672	3.6330	329.2237	90.1525
3.5000	0.0884	0.6326	8.7342	2.3917	337.9579	92.5442
3.6250	0.0811	0.5484	14.8317	4.0614	352.7896	96.6057
3.7500	0.0743	0.4744	4.7899	1.3116	357.5796	97.9173
3.8750	0.0682	0.4098	7.6057	2.0827	365.1852	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	365.1852	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	365.1852	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	365.1852	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	365.1852	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S9

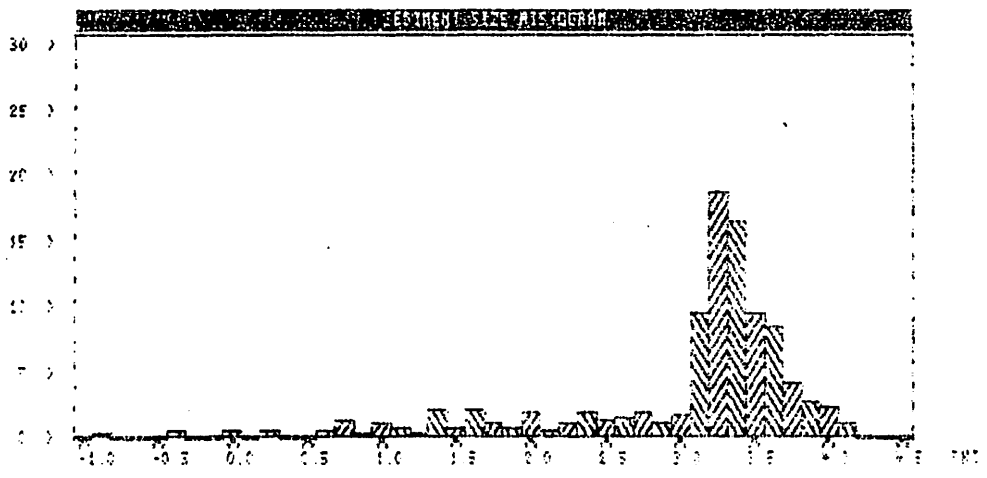
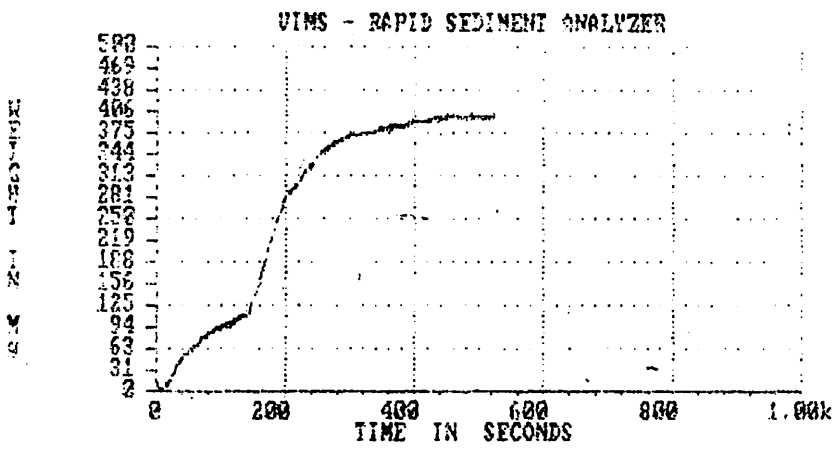
CORE 42 S-9 2.3-3.11M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
638.9586 Dry Sand Fraction Weight (mg)  
2.65 Grain density / Natural Grain Fall Time using Wn=0.977W+0.913  
2.9245 0.8764 -1.7574 5.9082 M1 M2 M3 M4 (phi)  
2.9487 3.2139 0.7945 -0.5644 0.5136 Mz, Md, SI, SK1, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.3676	0.3432	1.3676	0.3432
-0.7500	1.6818	17.7631	0.0000	0.0000	1.3676	0.3432
-0.6250	1.5422	16.6582	0.0000	0.0000	1.3676	0.3432
-0.5000	1.4142	15.6003	0.0000	0.0000	1.3676	0.3432
-0.3750	1.2968	14.5884	2.1464	0.5386	3.5140	0.8818
-0.2500	1.1892	13.6217	0.0000	0.0000	3.5140	0.8818
-0.1250	1.0905	12.6995	0.0000	0.0000	3.5140	0.8818
0.0000	1.0000	11.8208	2.0313	0.5097	5.5453	1.3915
0.1250	0.9170	10.9848	0.0000	0.0000	5.5453	1.3915
0.2500	0.8409	10.1905	2.0958	0.5259	7.6411	1.9173
0.3750	0.7711	9.4370	0.0000	0.0000	7.6411	1.9173
0.5000	0.7071	8.7233	0.0000	0.0000	7.6411	1.9173
0.6250	0.6484	8.0484	2.5718	0.6453	10.2128	2.5627
0.7500	0.5946	7.4111	5.1288	1.2870	15.3417	3.8496
0.8750	0.5453	6.8104	1.4455	0.3627	16.7871	4.2123
1.0000	0.5000	6.2452	4.3570	1.0933	21.1441	5.3056
1.1250	0.4585	5.7143	3.3735	0.8465	24.5176	6.1521
1.2500	0.4204	5.2167	1.3565	0.3404	25.8741	6.4925
1.3750	0.3856	4.7510	8.7471	2.1949	34.6211	8.6874
1.5000	0.3536	4.3163	3.2939	0.8265	37.9151	9.5139
1.6250	0.3242	3.9113	8.7735	2.2015	46.6885	11.7154
1.7500	0.2973	3.5349	4.8292	1.2118	51.5177	12.9272
1.8750	0.2726	3.1860	3.2561	0.8171	54.7739	13.7442
2.0000	0.2500	2.8634	7.5345	1.8906	62.3084	15.6348
2.1250	0.2293	2.5660	2.0522	0.5149	64.3606	16.1498
2.2500	0.2102	2.2927	4.9406	1.2397	69.3012	17.3895
2.3750	0.1928	2.0423	7.9574	1.9967	77.2586	19.3862
2.5000	0.1768	1.8137	5.4961	1.3791	82.7547	20.7654
2.6250	0.1621	1.6058	6.6267	1.6628	89.3814	22.4282
2.7500	0.1487	1.4175	8.2219	2.0631	97.6033	24.4913
2.8750	0.1363	1.2476	4.3640	1.0950	101.9673	25.5863
3.0000	0.1250	1.0949	7.2198	1.8116	109.1871	27.3979
3.1250	0.1146	0.9582	37.4294	9.3920	146.6164	36.7900
3.2500	0.1051	0.8364	74.0028	18.5693	220.6192	55.3592
3.3750	0.0964	0.7282	64.8267	16.2668	285.4459	71.6260
3.5000	0.0884	0.6326	37.5314	9.4176	322.9773	81.0436
3.6250	0.0811	0.5484	33.9143	8.5100	356.8916	89.5536
3.7500	0.0743	0.4744	16.6421	4.1759	373.5337	93.7296
3.8750	0.0682	0.4098	10.8006	2.7102	384.3343	96.4397
4.0000	0.0625	0.3533	9.7526	2.4472	394.0869	98.8869
4.1250	0.0573	0.3043	4.4360	1.1131	398.5229	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	398.5229	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	398.5229	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	398.5229	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C42\_S10

CORE 42 S-10 3.11-4.63M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CI

600.9580 Dry Sand Fraction Weight (mg)

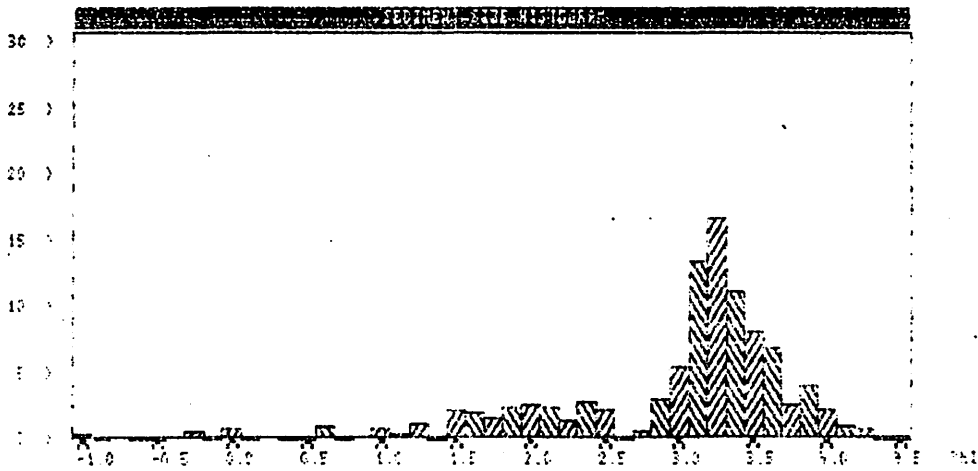
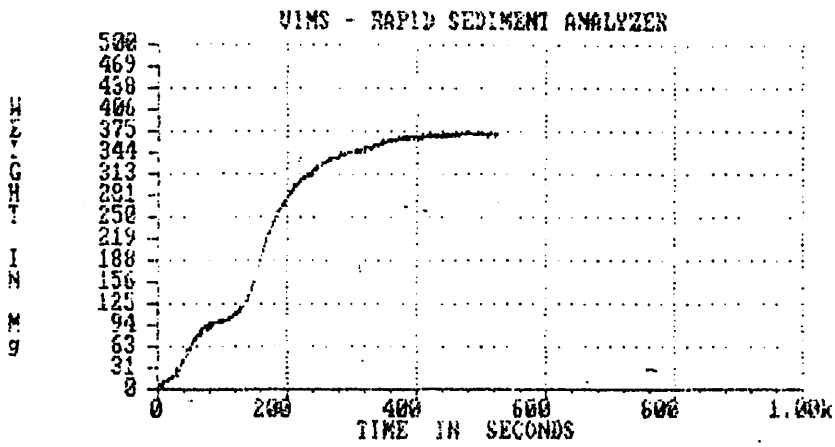
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wn=0.913

2.8820 0.8584 -1.6675 6.2792 M1 M2 M3 M4 (phi)

2.8843 3.1468 0.7837 -0.4945 0.4718 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.2822	0.3469	1.2822	0.3469
-0.8750	1.8340	18.9156	0.0000	0.0000	1.2822	0.3469
-0.7500	1.6818	17.7631	0.8317	0.2250	2.1138	0.5719
-0.6250	1.5422	16.6582	0.0000	0.0000	2.1138	0.5719
-0.5000	1.4142	15.6008	0.0000	0.0000	2.1138	0.5719
-0.3750	1.2968	14.5884	0.2262	0.0612	2.3400	0.6331
-0.2500	1.1892	13.6217	1.7432	0.4716	4.0832	1.1047
-0.1250	1.0905	12.6995	0.0000	0.0000	4.0832	1.1047
0.0000	1.0000	11.8208	2.7476	0.7434	6.8307	1.8481
0.1250	0.9170	10.9848	0.0000	0.0000	6.8307	1.8481
0.2500	0.8409	10.1905	0.6068	0.1642	7.4376	2.0123
0.3750	0.7711	9.4370	0.0000	0.0000	7.4376	2.0123
0.5000	0.7071	8.7233	0.0000	0.0000	7.4376	2.0123
0.6250	0.6484	8.0484	3.2857	0.8890	10.7233	2.9012
0.7500	0.5946	7.4111	0.0000	0.0000	10.7233	2.9012
0.8750	0.5453	6.8104	0.3789	0.1025	11.1022	3.0037
1.0000	0.5000	6.2452	3.1495	0.8521	14.2517	3.8558
1.1250	0.4585	5.7143	1.7084	0.4622	15.9600	4.3180
1.2500	0.4204	5.2167	4.3132	1.1670	20.2733	5.4850
1.3750	0.3856	4.7510	0.0000	0.0000	20.2733	5.4850
1.5000	0.3536	4.3163	8.3737	2.2655	28.6470	7.7505
1.6250	0.3242	3.9113	7.0204	1.8994	35.6673	9.6499
1.7500	0.2973	3.5349	6.0272	1.6307	41.6945	11.2805
1.8750	0.2726	3.1860	9.0115	2.4381	50.7060	13.7186
2.0000	0.2500	2.8634	9.4982	2.5698	60.2042	16.2884
2.1250	0.2293	2.5660	8.4693	2.2914	68.6735	18.5798
2.2500	0.2102	2.2927	4.8447	1.3107	73.5182	19.8905
2.3750	0.1928	2.0423	10.4062	2.8154	83.9245	22.7059
2.5000	0.1768	1.8137	8.2034	2.2194	92.1278	24.9254
2.6250	0.1621	1.6058	0.0000	0.0000	92.1278	24.9254
2.7500	0.1487	1.4175	1.9604	0.5304	94.0883	25.4558
2.8750	0.1363	1.2476	10.9259	2.9560	105.0141	28.4118
3.0000	0.1250	1.0949	20.1397	5.4488	125.1538	33.2606
3.1250	0.1146	0.9582	48.9636	13.2472	174.1173	47.1078
3.2500	0.1051	0.8364	61.2589	16.5737	235.3763	63.6816
3.3750	0.0964	0.7282	41.1854	11.1428	276.5617	74.8244
3.5000	0.0884	0.6326	29.9245	8.0961	306.4862	82.9205
3.6250	0.0811	0.5484	24.9653	6.7544	331.4515	89.6749
3.7500	0.0743	0.4744	9.2026	2.4898	340.6541	92.1647
3.8750	0.0682	0.4098	14.6414	3.9613	355.2955	96.1260
4.0000	0.0625	0.3533	7.8495	2.1237	363.1450	98.2497
4.1250	0.0573	0.3043	3.7944	1.0266	366.9394	99.2762
4.2500	0.0526	0.2617	2.6751	0.7238	369.6145	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.6145	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.6145	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S11

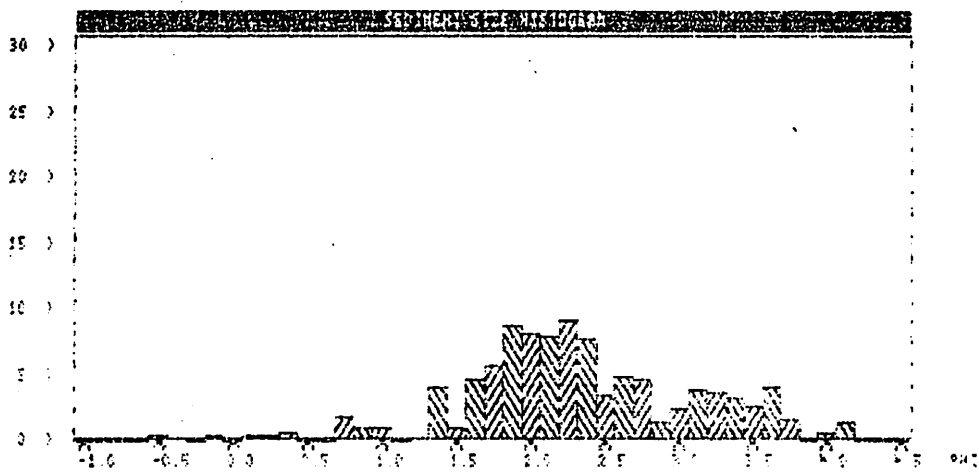
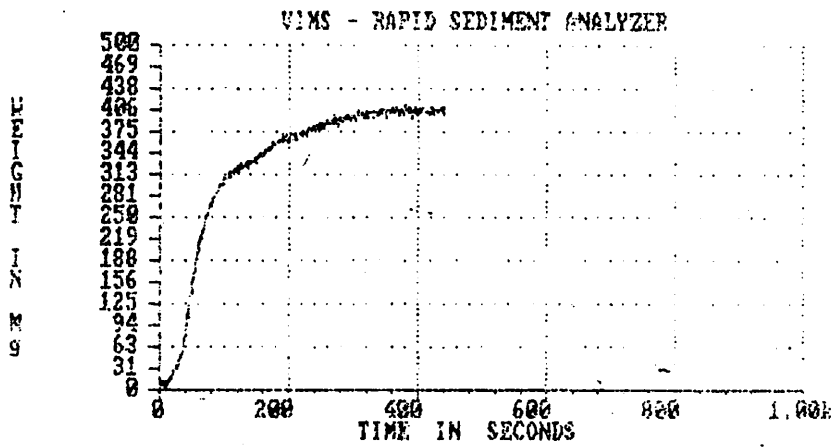
CORE 42 S-11 4.63-6.01M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 656.5877 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Wz+0.913$   
 2.2605 0.7949 -0.1980 3.6358 M1 M2 M3 M4 (phi)  
 2.3238 2.1816 0.7892 0.1591 0.5525 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0209	0.0052	0.0209	0.0052
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0209	0.0052
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0209	0.0052
-0.5000	1.4142	15.6003	1.8336	0.4550	1.8545	0.4602
-0.3750	1.2968	14.5884	0.2920	0.0725	2.1465	0.5327
-0.2500	1.1892	13.6217	0.0000	0.0000	2.1465	0.5327
-0.1250	1.0905	12.6995	1.4610	0.3626	3.6076	0.8953
0.0000	1.0000	11.8208	0.0000	0.0000	3.6076	0.8953
0.1250	0.9170	10.9848	1.5677	0.3890	5.1752	1.2843
0.2500	0.8409	10.1905	1.5762	0.3912	6.7514	1.6755
0.3750	0.7711	9.4370	2.0685	0.5133	8.8199	2.1888
0.5000	0.7071	8.7233	0.0000	0.0000	8.8199	2.1888
0.6250	0.6484	8.0484	0.0000	0.0000	8.8199	2.1888
0.7500	0.5946	7.4111	6.7589	1.6773	15.5788	3.8662
0.8750	0.5453	6.8104	4.1387	1.0271	19.7176	4.8933
1.0000	0.5000	6.2452	3.9085	0.9700	23.6260	5.8633
1.1250	0.4585	5.7143	0.0000	0.0000	23.6260	5.8633
1.2500	0.4204	5.2167	1.0481	0.2601	24.6742	6.1234
1.3750	0.3856	4.7510	16.0081	3.9727	40.6823	10.0961
1.5000	0.3536	4.3163	4.1631	1.0332	44.8454	11.1292
1.6250	0.3242	3.9113	18.4167	4.5704	63.2621	15.6997
1.7500	0.2973	3.5349	22.8777	5.6775	86.1398	21.3772
1.8750	0.2726	3.1860	35.0485	8.6980	121.1883	30.0752
2.0000	0.2500	2.8634	32.3787	8.0354	153.5671	38.1106
2.1250	0.2293	2.5660	31.3171	7.7719	184.8842	45.8825
2.2500	0.2102	2.2927	36.6173	9.0873	221.5015	54.9698
2.3750	0.1928	2.0423	31.0095	7.6956	252.5110	62.6654
2.5000	0.1768	1.8137	14.0637	3.4902	266.5746	66.1555
2.6250	0.1621	1.6058	19.4399	4.8194	285.9945	70.9749
2.7500	0.1487	1.4175	18.5725	4.6091	304.5670	75.5841
2.8750	0.1363	1.2476	5.7161	1.4186	310.2831	77.0026
3.0000	0.1250	1.0949	9.4888	2.3548	319.7720	79.3575
3.1250	0.1146	0.9582	14.9160	3.7017	334.6879	83.6591
3.2500	0.1051	0.8364	14.3046	3.5500	348.9925	86.6091
3.3750	0.0964	0.7282	12.6516	3.1397	361.6442	89.7488
3.5000	0.0884	0.6326	10.7963	2.6793	372.4404	92.4281
3.6250	0.0811	0.5484	16.4267	4.0766	388.8671	95.5047
3.7500	0.0743	0.4744	6.1148	1.5175	394.9819	98.0022
3.8750	0.0682	0.4098	0.0000	0.0000	394.9819	98.0022
4.0000	0.0625	0.3533	2.4302	0.6031	397.4121	98.6253
4.1250	0.0573	0.3043	5.5393	1.3747	402.9514	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	402.9514	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	402.9514	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	402.9514	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C42\_S12

CORE 42 S-12 6.01-6.12M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

606.4426 Dry Sand Fraction Weight (mg)

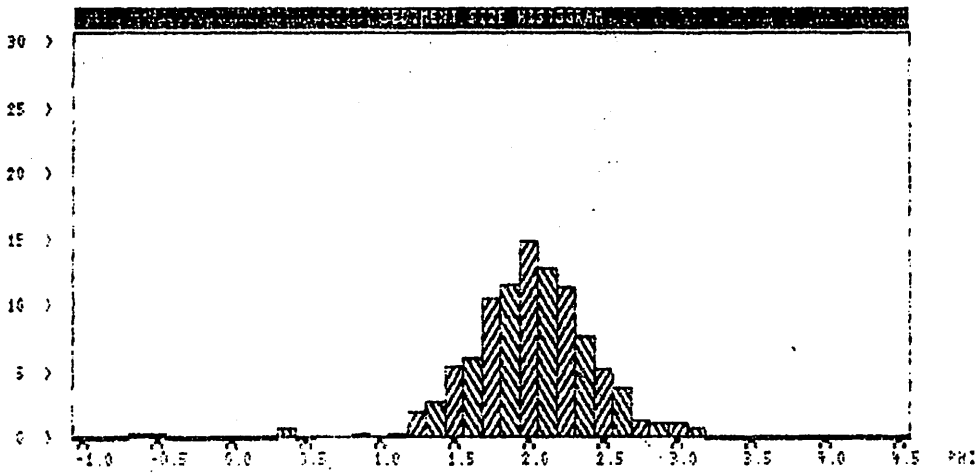
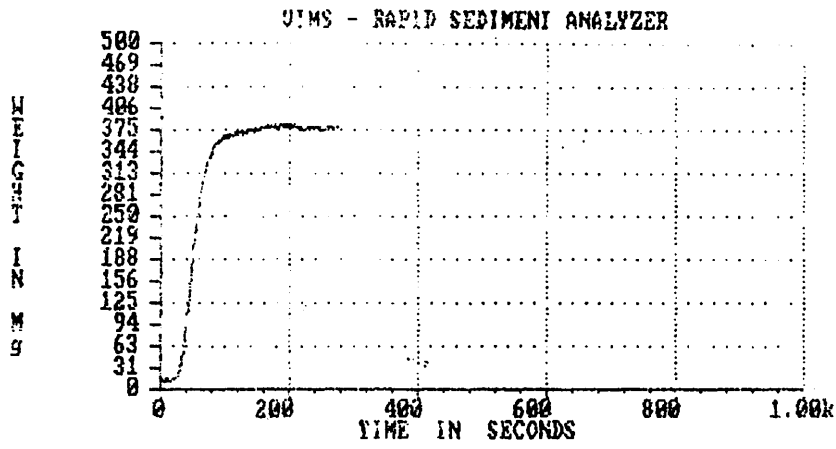
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws/0.913

1.9387 0.4658 -1.3348 9.5752 M1 M2 M3 M4 (phi)

1.9549 1.9573 0.3923 -0.0169 0.3624 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.6464	0.4441	1.6464	0.4441
-0.5000	1.4142	15.6003	1.0605	0.2861	2.7069	0.7302
-0.3750	1.2968	14.5884	0.0000	0.0000	2.7069	0.7302
-0.2500	1.1892	13.6217	0.0000	0.0000	2.7069	0.7302
-0.1250	1.0905	12.6995	0.0000	0.0000	2.7069	0.7302
0.0000	1.0000	11.8208	0.0000	0.0000	2.7069	0.7302
0.1250	0.9170	10.9848	0.0000	0.0000	2.7069	0.7302
0.2500	0.8409	10.1905	0.0000	0.0000	2.7069	0.7302
0.3750	0.7711	9.4370	2.5179	0.6792	5.2248	1.4094
0.5000	0.7071	8.7233	0.0000	0.0000	5.2248	1.4094
0.6250	0.6484	8.0484	0.2237	0.0603	5.4485	1.4698
0.7500	0.5946	7.4111	0.5920	0.1597	6.0405	1.6295
0.8750	0.5453	6.8104	1.0812	0.2917	7.1216	1.9211
1.0000	0.5000	6.2452	0.7396	0.1995	7.8612	2.1206
1.1250	0.4585	5.7143	1.3339	0.3598	9.1951	2.4805
1.2500	0.4204	5.2167	7.4311	2.0046	16.6262	4.4851
1.3750	0.3856	4.7510	9.9762	2.6912	26.6024	7.1763
1.5000	0.3536	4.3163	19.6966	5.3134	46.2990	12.4897
1.6250	0.3242	3.9113	22.1449	5.9738	68.4440	18.4635
1.7500	0.2973	3.5349	38.6260	10.4198	107.0699	28.8833
1.8750	0.2726	3.1860	42.3871	11.4344	149.4571	40.3177
2.0000	0.2500	2.8634	54.5276	14.7094	203.9846	55.0271
2.1250	0.2293	2.5660	46.8530	12.6391	250.8376	67.6663
2.2500	0.2102	2.2927	41.6211	11.2278	292.4587	78.8940
2.3750	0.1928	2.0423	28.1384	7.5907	320.5971	86.4847
2.5000	0.1768	1.8137	19.5555	5.2753	340.1526	91.7600
2.6250	0.1621	1.6058	13.9261	3.7567	354.0788	95.5167
2.7500	0.1487	1.4175	4.7780	1.2889	358.8567	96.8056
2.8750	0.1363	1.2476	4.4954	1.2127	363.3521	98.0183
3.0000	0.1250	1.0949	4.5755	1.2343	367.9276	99.2526
3.1250	0.1146	0.9582	2.5681	0.6928	370.4958	99.9454
3.2500	0.1051	0.8364	0.0000	0.0000	370.4958	99.9454
3.3750	0.0964	0.7282	0.0000	0.0000	370.4958	99.9454
3.5000	0.0884	0.6326	0.0000	0.0000	370.4958	99.9454
3.6250	0.0811	0.5484	0.1505	0.0406	370.6463	99.9860
3.7500	0.0743	0.4744	0.0520	0.0140	370.6983	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	370.6983	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	370.6983	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	370.6983	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	370.6983	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	370.6983	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	370.6983	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C43\_S1

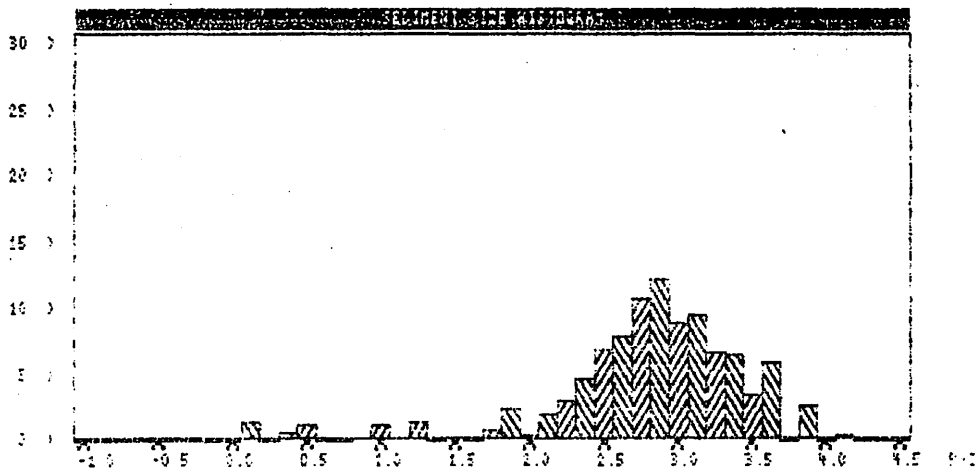
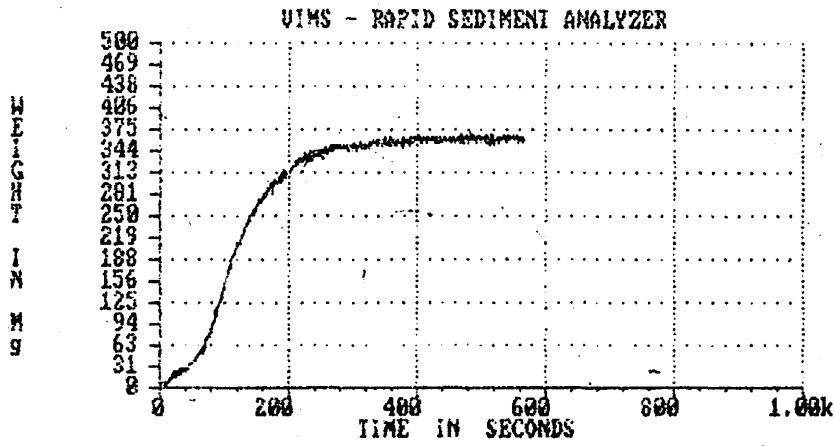
CORE 43 S-1 0-1.77M

VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
578.6277    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using.  $W_n=0.977W_s^{0.913}$   
2.7139    0.6958    -1.5839    6.5761    M1 M2 M3 M4 (phi)  
2.7948    2.8045    0.6203    -0.1942    0.4714    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	0.0000	0.0000	0.0000	0.0000
0.0000	1.0000	11.8208	0.0000	0.0000	0.0000	0.0000
0.1250	0.9170	10.9848	4.8694	1.3572	4.8694	1.3572
0.2500	0.8409	10.1905	0.0000	0.0000	4.8694	1.3572
0.3750	0.7711	9.4370	1.9778	0.5513	6.8472	1.9085
0.5000	0.7071	8.7233	4.3435	1.2106	11.1907	3.1191
0.6250	0.6484	8.0484	0.0000	0.0000	11.1907	3.1191
0.7500	0.5946	7.4111	0.0000	0.0000	11.1907	3.1191
0.8750	0.5453	6.8104	0.3792	0.1057	11.5699	3.2249
1.0000	0.5000	6.2452	4.3095	1.2012	15.8794	4.4260
1.1250	0.4585	5.7143	0.8785	0.2449	16.7579	4.6709
1.2500	0.4204	5.2167	4.6397	1.2932	21.3976	5.9641
1.3750	0.3856	4.7510	0.0000	0.0000	21.3976	5.9641
1.5000	0.3536	4.3163	0.7109	0.1981	22.1085	6.1622
1.6250	0.3242	3.9113	0.0000	0.0000	22.1085	6.1622
1.7500	0.2973	3.5349	2.9898	0.8333	25.0983	6.9956
1.8750	0.2726	3.1860	8.2239	2.2922	33.3222	9.2878
2.0000	0.2500	2.8634	1.4904	0.4154	34.8126	9.7032
2.1250	0.2293	2.5660	7.1793	2.0011	41.9919	11.7043
2.2500	0.2102	2.2927	10.9624	3.0555	52.9543	14.7598
2.3750	0.1928	2.0423	16.4427	4.5830	69.3970	19.3428
2.5000	0.1768	1.8137	24.1613	6.7344	93.5582	26.0772
2.6250	0.1621	1.6058	28.3569	7.9038	121.9151	33.9810
2.7500	0.1487	1.4175	38.5969	10.7580	160.5120	44.7390
2.8750	0.1363	1.2476	43.2592	12.0575	203.7713	56.7965
3.0000	0.1250	1.0949	31.4759	8.7732	235.2471	65.5697
3.1250	0.1146	0.9582	34.1894	9.5295	269.4365	75.0992
3.2500	0.1051	0.8364	23.5431	6.5621	292.9796	81.6613
3.3750	0.0964	0.7282	22.7606	6.3440	315.7402	88.0053
3.5000	0.0884	0.6326	11.8094	3.2916	327.5496	91.2968
3.6250	0.0811	0.5484	20.5425	5.7257	348.0921	97.0226
3.7500	0.0743	0.4744	0.0000	0.0000	348.0921	97.0226
3.8750	0.0682	0.4098	9.4130	2.6236	357.5050	99.6462
4.0000	0.0625	0.3533	0.0000	0.0000	357.5050	99.6462
4.1250	0.0573	0.3043	1.2692	0.3538	358.7743	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	358.7743	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	358.7743	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	358.7743	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C43\_S2

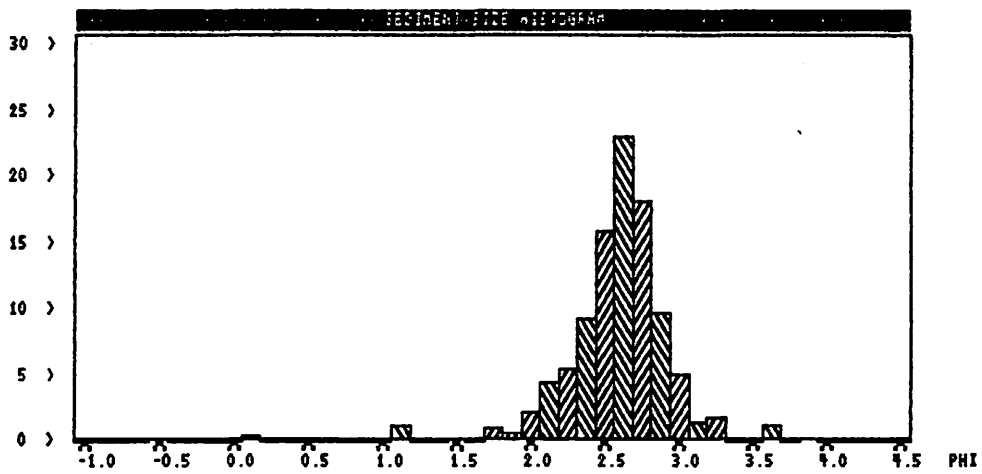
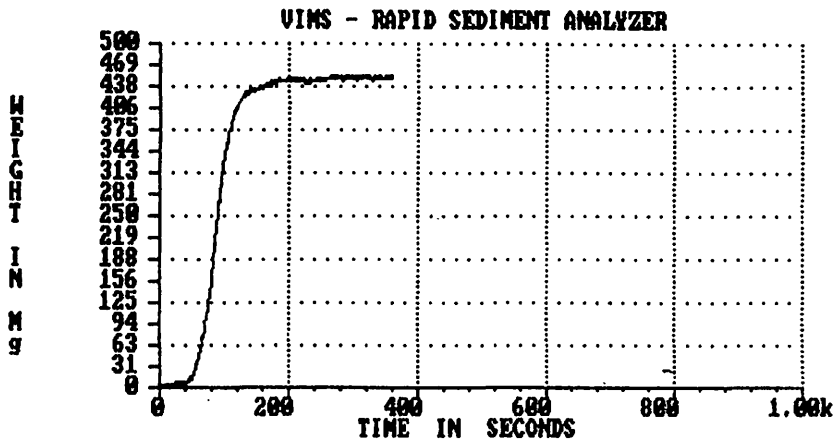
CORE 43 S-2 1.77-3.25M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
722.0114 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.5148 0.3850 -2.1639 15.9591 M1 M2 M3 M4 (phi)  
2.5346 2.5537 0.2844 -0.1271 0.2377 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.5463	0.1205	0.5463	0.1205
-0.3750	1.2968	14.5884	0.0000	0.0000	0.5463	0.1205
-0.2500	1.1892	13.6217	0.0000	0.0000	0.5463	0.1205
-0.1250	1.0905	12.6995	0.0000	0.0000	0.5463	0.1205
0.0000	1.0000	11.8208	0.0000	0.0000	0.5463	0.1205
0.1250	0.9170	10.9848	1.9319	0.4261	2.4781	0.5465
0.2500	0.8409	10.1905	0.0000	0.0000	2.4781	0.5465
0.3750	0.7711	9.4370	0.0000	0.0000	2.4781	0.5465
0.5000	0.7071	8.7233	0.0000	0.0000	2.4781	0.5465
0.6250	0.6484	8.0484	0.0000	0.0000	2.4781	0.5465
0.7500	0.5946	7.4111	0.0000	0.0000	2.4781	0.5465
0.8750	0.5453	6.8104	0.0000	0.0000	2.4781	0.5465
1.0000	0.5000	6.2452	0.0000	0.0000	2.4781	0.5465
1.1250	0.4585	5.7143	5.4626	1.2047	7.9407	1.7513
1.2500	0.4204	5.2167	0.0000	0.0000	7.9407	1.7513
1.3750	0.3856	4.7510	0.0000	0.0000	7.9407	1.7513
1.5000	0.3536	4.3163	0.3283	0.0724	8.2690	1.8236
1.6250	0.3242	3.9113	0.0000	0.0000	8.2690	1.8236
1.7500	0.2973	3.5349	3.9381	0.8685	12.2070	2.6922
1.8750	0.2726	3.1860	2.5879	0.5707	14.7949	3.2629
2.0000	0.2500	2.8634	9.5819	2.1132	24.3768	5.3761
2.1250	0.2293	2.5660	19.9952	4.4098	44.3720	9.7858
2.2500	0.2102	2.2927	24.5415	5.4124	68.9134	15.1983
2.3750	0.1928	2.0423	42.0338	9.2702	110.9472	24.4684
2.5000	0.1768	1.8137	71.2452	15.7125	182.1924	40.1809
2.6250	0.1621	1.6058	103.6155	22.8515	285.8079	63.0324
2.7500	0.1487	1.4175	81.4192	17.9563	367.2272	80.9887
2.8750	0.1363	1.2476	43.4902	9.5914	410.7174	90.5801
3.0000	0.1250	1.0949	23.1641	5.1086	433.8815	95.6888
3.1250	0.1146	0.9582	5.8020	1.2796	439.6835	96.9684
3.2500	0.1051	0.8364	7.9857	1.7612	447.6692	98.7295
3.3750	0.0964	0.7282	0.0000	0.0000	447.6692	98.7295
3.5000	0.0884	0.6326	0.0000	0.0000	447.6692	98.7295
3.6250	0.0811	0.5484	5.4948	1.2118	453.1640	99.9414
3.7500	0.0743	0.4744	0.0000	0.0000	453.1640	99.9414
3.8750	0.0682	0.4098	0.2658	0.0586	453.4298	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	453.4298	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	453.4298	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	453.4298	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	453.4298	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	453.4298	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C43\_S3

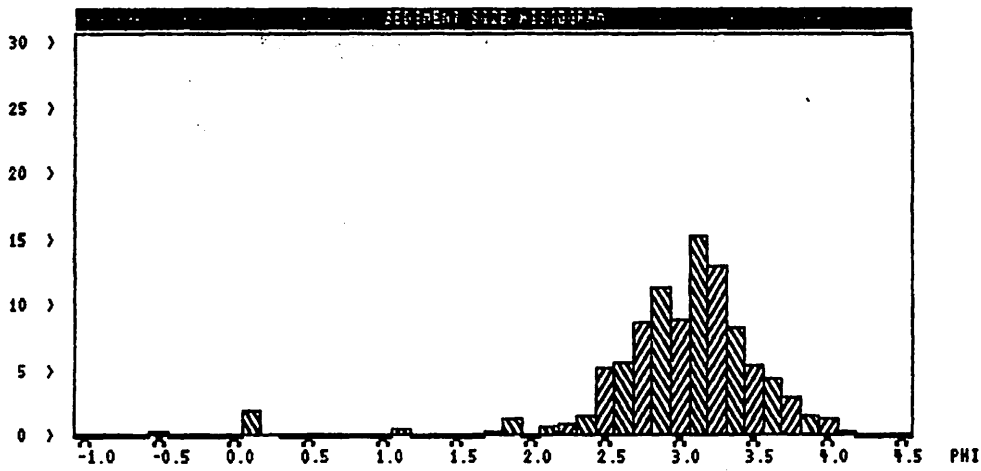
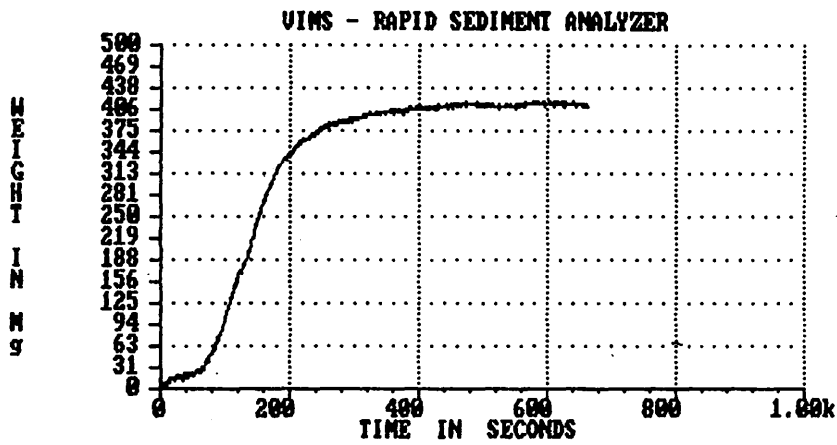
CORE 43 S-3 3.25-3.50M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
658.5465 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.9173 0.6383 -2.5344 12.8149 M1 M2 M3 M4 (phi)  
2.9858 3.0193 0.4542 -0.1610 0.3171 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	1.8310	0.4472	1.8310	0.4472
-0.3750	1.2968	14.5884	0.0000	0.0000	1.8310	0.4472
-0.2500	1.1892	13.6217	0.0000	0.0000	1.8310	0.4472
-0.1250	1.0905	12.6995	0.0000	0.0000	1.8310	0.4472
0.0000	1.0000	11.8208	0.0000	0.0000	1.8310	0.4472
0.1250	0.9170	10.9848	7.8003	1.9051	9.6314	2.3522
0.2500	0.8409	10.1905	0.2439	0.0596	9.8752	2.4118
0.3750	0.7711	9.4370	0.0000	0.0000	9.8752	2.4118
0.5000	0.7071	8.7233	0.0000	0.0000	9.8752	2.4118
0.6250	0.6484	8.0484	0.0000	0.0000	9.8752	2.4118
0.7500	0.5946	7.4111	0.0000	0.0000	9.8752	2.4118
0.8750	0.5453	6.8104	0.0000	0.0000	9.8752	2.4118
1.0000	0.5000	6.2452	0.0000	0.0000	9.8752	2.4118
1.1250	0.4585	5.7143	2.6090	0.6372	12.4842	3.0490
1.2500	0.4204	5.2167	0.0000	0.0000	12.4842	3.0490
1.3750	0.3856	4.7510	0.0000	0.0000	12.4842	3.0490
1.5000	0.3536	4.3163	0.0000	0.0000	12.4842	3.0490
1.6250	0.3242	3.9113	0.0000	0.0000	12.4842	3.0490
1.7500	0.2973	3.5349	1.5975	0.3901	14.0817	3.4391
1.8750	0.2726	3.1860	5.5900	1.3652	19.6717	4.8044
2.0000	0.2500	2.8634	0.0000	0.0000	19.6717	4.8044
2.1250	0.2293	2.5660	3.2924	0.8041	22.9641	5.6085
2.2500	0.2102	2.2927	3.6608	0.8941	26.6249	6.5025
2.3750	0.1928	2.0423	6.6784	1.6310	33.3033	8.1336
2.5000	0.1768	1.8137	21.1298	5.1605	54.4331	13.2941
2.6250	0.1621	1.6058	22.9279	5.5996	77.3610	18.8937
2.7500	0.1487	1.4175	35.2899	8.6188	112.6510	27.5125
2.8750	0.1363	1.2476	46.4794	11.3516	159.1304	38.8640
3.0000	0.1250	1.0949	36.0229	8.7978	195.1533	47.6618
3.1250	0.1146	0.9582	62.0220	15.1475	257.1753	62.8093
3.2500	0.1051	0.8364	52.4555	12.8111	309.6309	75.6204
3.3750	0.0964	0.7282	33.8154	8.2586	343.4462	83.8791
3.5000	0.0884	0.6326	22.2531	5.4348	365.6993	89.3139
3.6250	0.0811	0.5484	17.8566	4.3611	383.5559	93.6750
3.7500	0.0743	0.4744	12.4116	3.0313	395.9676	96.7062
3.8750	0.0682	0.4098	6.3278	1.5454	402.2953	98.2516
4.0000	0.0625	0.3533	5.8049	1.4177	408.1003	99.6694
4.1250	0.0573	0.3043	1.3538	0.3306	409.4541	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	409.4541	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	409.4541	100.0000
4.5000	0.0440	0.1900	0.0000	0.0000	409.4541	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C43\_S4

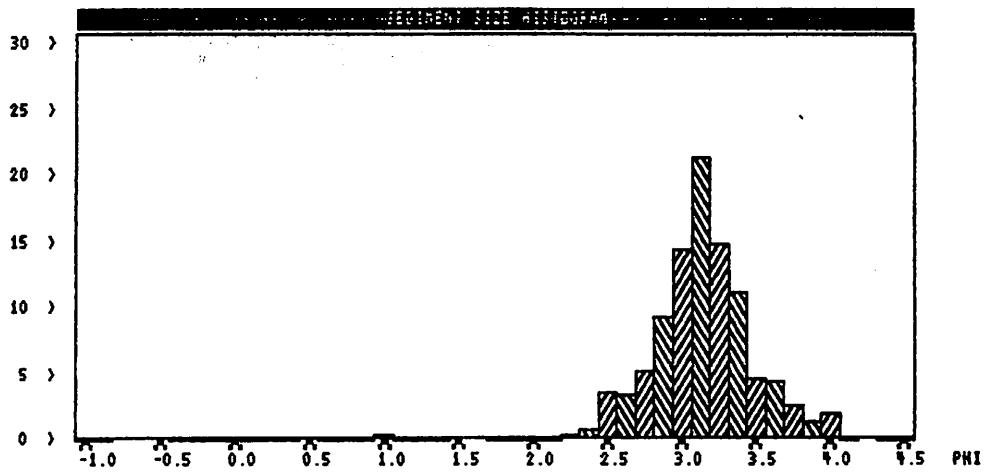
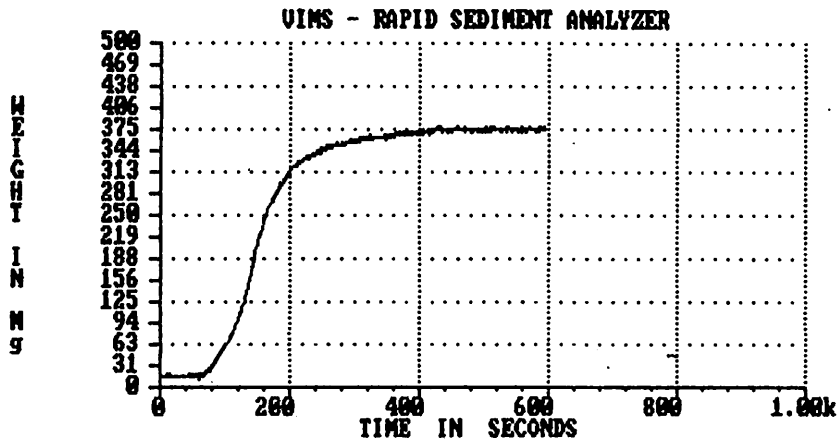
CORE 43 S-4 3.5-5.1?M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
600.1744 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws^0.913  
3.0548 0.4344 -2.9301 25.5436 M1 M2 M3 M4 (phi)  
3.0676 3.0705 0.3328 -0.0056 0.2392 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.6588	0.1821	0.6588	0.1821
-0.6250	1.5422	16.6582	0.2282	0.0631	0.8870	0.2452
-0.5000	1.4142	15.6003	0.4366	0.1207	1.3237	0.3659
-0.3750	1.2968	14.5884	0.0000	0.0000	1.3237	0.3659
-0.2500	1.1892	13.6217	0.0000	0.0000	1.3237	0.3659
-0.1250	1.0905	12.6995	0.0000	0.0000	1.3237	0.3659
0.0000	1.0000	11.8208	0.0000	0.0000	1.3237	0.3659
0.1250	0.9170	10.9848	0.0000	0.0000	1.3237	0.3659
0.2500	0.8409	10.1905	0.0000	0.0000	1.3237	0.3659
0.3750	0.7711	9.4370	0.0000	0.0000	1.3237	0.3659
0.5000	0.7071	8.7233	0.3676	0.1016	1.6912	0.4675
0.6250	0.6484	8.0484	0.0000	0.0000	1.6912	0.4675
0.7500	0.5946	7.4111	0.0000	0.0000	1.6912	0.4675
0.8750	0.5453	6.8104	0.0000	0.0000	1.6912	0.4675
1.0000	0.5000	6.2452	1.1328	0.3131	2.8240	0.7807
1.1250	0.4585	5.7143	0.0000	0.0000	2.8240	0.7807
1.2500	0.4204	5.2167	0.0937	0.0259	2.9176	0.8066
1.3750	0.3856	4.7510	0.0000	0.0000	2.9176	0.8066
1.5000	0.3536	4.3163	0.4916	0.1359	3.4093	0.9425
1.6250	0.3242	3.9113	0.5811	0.1606	3.9903	1.1031
1.7500	0.2973	3.5349	0.0000	0.0000	3.9903	1.1031
1.8750	0.2726	3.1860	0.0000	0.0000	3.9903	1.1031
2.0000	0.2500	2.8634	0.0000	0.0000	3.9903	1.1031
2.1250	0.2293	2.5660	0.0000	0.0000	3.9903	1.1031
2.2500	0.2102	2.2927	1.5623	0.4319	5.5526	1.5350
2.3750	0.1928	2.0423	2.9257	0.8088	8.4783	2.3437
2.5000	0.1768	1.8137	13.2542	3.6640	21.7325	6.0077
2.6250	0.1621	1.6058	12.0554	3.3326	33.7879	9.3403
2.7500	0.1487	1.4175	19.1746	5.3006	52.9625	14.6410
2.8750	0.1363	1.2476	33.2249	9.1847	86.1874	23.8257
3.0000	0.1250	1.0949	51.6028	14.2651	137.7902	38.0908
3.1250	0.1146	0.9582	76.3336	21.1017	214.1238	59.1925
3.2500	0.1051	0.8364	53.1532	14.6937	267.2770	73.8862
3.3750	0.0964	0.7282	40.1496	11.0990	307.4266	84.9852
3.5000	0.0884	0.6326	16.3744	4.5265	323.8010	89.5118
3.6250	0.0811	0.5484	15.7576	4.3560	339.5586	93.8678
3.7500	0.0743	0.4744	9.3819	2.5935	348.9406	96.4614
3.8750	0.0682	0.4098	5.1780	1.4314	354.1185	97.8928
4.0000	0.0625	0.3533	7.0934	1.9609	361.2120	99.8537
4.1250	0.0573	0.3043	0.0000	0.0000	361.2120	99.8537
4.2500	0.0526	0.2617	0.5293	0.1463	361.7413	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	361.7413	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

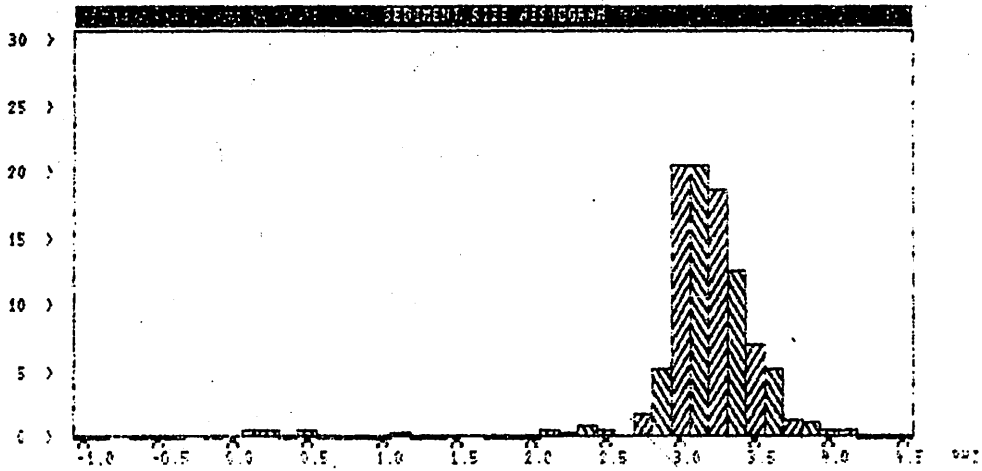
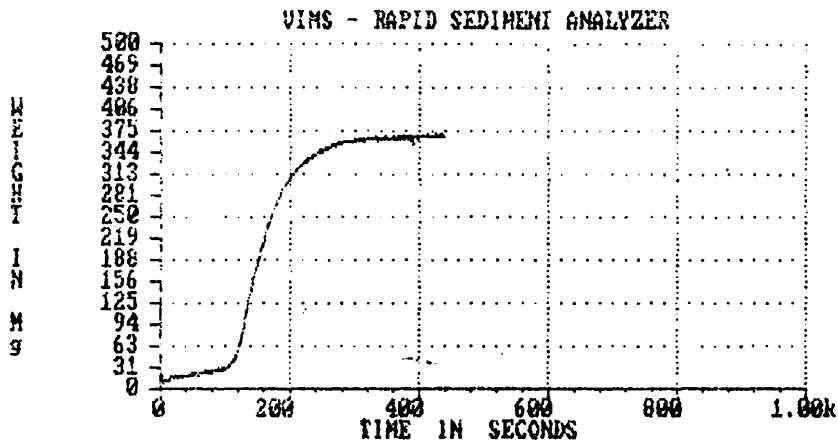


C44\_S1  
 CORE 44 S-1 0-1.56M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 591.9475 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws=0.913  
 3.0533 0.5499 -3.8127 22.0912 M1 M2 M3 M4 (phi)  
 3.1252 3.1058 0.2936 -0.0176 0.2279 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.8420	0.2335	0.8420	0.2335
-0.6250	1.5422	16.6582	0.0000	0.0000	0.8420	0.2335
-0.5000	1.4142	15.6003	0.0000	0.0000	0.8420	0.2335
-0.3750	1.2968	14.5884	0.0000	0.0000	0.8420	0.2335
-0.2500	1.1892	13.6217	0.6008	0.1666	1.4428	0.4002
-0.1250	1.0905	12.6995	0.0000	0.0000	1.4428	0.4002
0.0000	1.0000	11.8208	0.5497	0.1525	1.9926	0.5526
0.1250	0.9170	10.9848	1.8595	0.5157	3.8521	1.0683
0.2500	0.8409	10.1905	1.8893	0.5240	5.7414	1.5923
0.3750	0.7711	9.4370	0.0000	0.0000	5.7414	1.5923
0.5000	0.7071	8.7233	1.9135	0.5307	7.6548	2.1230
0.6250	0.6484	8.0484	0.0000	0.0000	7.6548	2.1230
0.7500	0.5946	7.4111	0.0000	0.0000	7.6548	2.1230
0.8750	0.5453	6.8104	0.0000	0.0000	7.6548	2.1230
1.0000	0.5000	6.2452	0.0000	0.0000	7.6548	2.1230
1.1250	0.4585	5.7143	1.5544	0.4311	9.2092	2.5541
1.2500	0.4204	5.2167	0.1745	0.0484	9.3838	2.6025
1.3750	0.3856	4.7510	0.0000	0.0000	9.3838	2.6025
1.5000	0.3536	4.3163	0.4919	0.1364	9.8757	2.7389
1.6250	0.3242	3.9113	0.7817	0.2168	10.6574	2.9557
1.7500	0.2973	3.5349	0.0000	0.0000	10.6574	2.9557
1.8750	0.2726	3.1860	0.0000	0.0000	10.6574	2.9557
2.0000	0.2500	2.8634	0.0000	0.0000	10.6574	2.9557
2.1250	0.2293	2.5660	2.1131	0.5860	12.7705	3.5417
2.2500	0.2102	2.2927	1.1551	0.3203	13.9256	3.8621
2.3750	0.1928	2.0423	3.2336	0.8968	17.1592	4.7589
2.5000	0.1768	1.8137	1.7115	0.4747	18.8706	5.2335
2.6250	0.1621	1.6058	0.8016	0.2223	19.6722	5.4558
2.7500	0.1487	1.4175	6.1017	1.6922	25.7739	7.1480
2.8750	0.1363	1.2476	19.0716	5.2893	44.8455	12.4373
3.0000	0.1250	1.0949	73.1417	20.2849	117.9872	32.7222
3.1250	0.1146	0.9582	73.6304	20.4204	191.6176	53.1426
3.2500	0.1051	0.8364	67.0726	18.6017	258.6902	71.7443
3.3750	0.0964	0.7282	44.9362	12.4625	303.6264	84.2068
3.5000	0.0884	0.6326	25.1530	6.9759	328.7794	91.1826
3.6250	0.0811	0.5484	18.8966	5.2407	347.6760	96.4234
3.7500	0.0743	0.4744	4.9004	1.3591	352.5764	97.7824
3.8750	0.0682	0.4098	3.8959	1.0805	356.4723	98.8629
4.0000	0.0625	0.3533	1.8143	0.5032	358.2866	99.3661
4.1250	0.0573	0.3043	2.2858	0.6339	360.5724	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	360.5724	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	360.5724	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	360.5724	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C44\_52

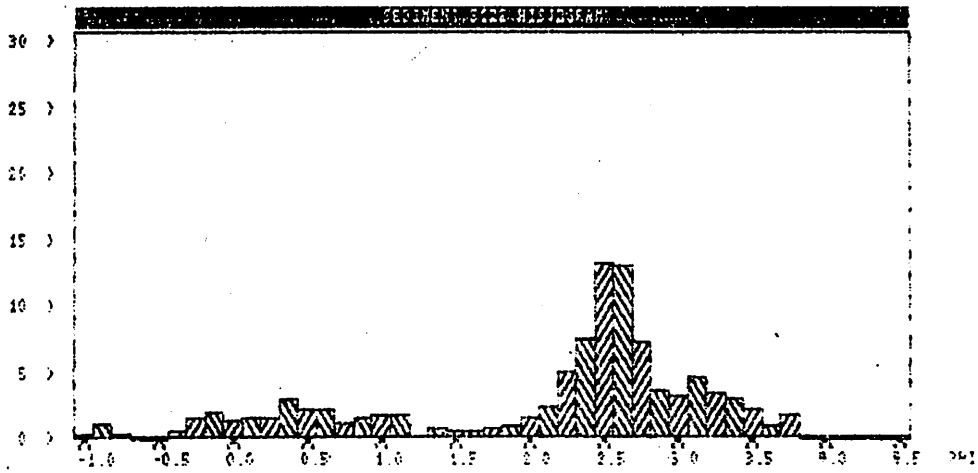
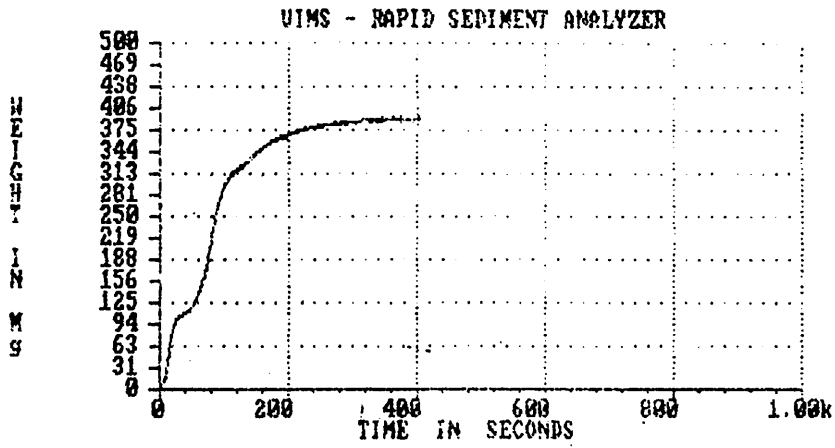
CORE 44 S-2 1.56-1.77M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
624.8552 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wn=0.913  
2.0422 1.1128 -0.9806 2.9191 M1 M2 M3 M4 (phi)  
1.9795 2.4330 1.1595 -0.5108 0.6861 Mz,Md,Sl,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.0297	0.2719	1.0297	0.2719
-0.8750	1.8340	18.9156	4.6402	1.2252	5.6700	1.4971
-0.7500	1.6818	17.7631	1.1586	0.3059	6.8286	1.8031
-0.6250	1.5422	16.6582	0.0000	0.0000	6.8286	1.8031
-0.5000	1.4142	15.6003	0.0000	0.0000	6.8286	1.8031
-0.3750	1.2968	14.5884	2.3990	0.6334	9.2276	2.4365
-0.2500	1.1892	13.6217	6.1230	1.6168	15.3506	4.0533
-0.1250	1.0905	12.6995	7.2407	1.9119	22.5912	5.9652
0.0000	1.0000	11.8208	5.0142	1.3240	27.6055	7.2892
0.1250	0.9170	10.9848	6.1011	1.6110	33.7065	8.9001
0.2500	0.8409	10.1905	6.2770	1.6574	39.9836	10.5576
0.3750	0.7711	9.4370	11.3411	2.9946	51.3247	13.5521
0.5000	0.7071	8.7233	8.4985	2.2440	59.8232	15.7962
0.6250	0.6484	8.0484	8.0296	2.1202	67.8528	17.9164
0.7500	0.5946	7.4111	4.6567	1.2296	72.5095	19.1459
0.8750	0.5453	6.8104	5.6190	1.4837	78.1285	20.6296
1.0000	0.5000	6.2452	6.3523	1.6773	84.4807	22.3069
1.1250	0.4585	5.7143	6.3942	1.6884	90.8749	23.9953
1.2500	0.4204	5.2167	0.2814	0.0743	91.1564	24.0696
1.3750	0.3856	4.7510	2.7580	0.7282	93.9143	24.7978
1.5000	0.3536	4.3163	1.9292	0.5094	95.8435	25.3072
1.6250	0.3242	3.9113	1.7855	0.4715	97.6290	25.7787
1.7500	0.2973	3.5349	3.0945	0.8171	100.7235	26.5958
1.8750	0.2726	3.1860	3.9699	1.0482	104.6934	27.6440
2.0000	0.2500	2.8634	5.8182	1.5363	110.5116	29.1803
2.1250	0.2293	2.5660	8.7855	2.3198	119.2971	31.5001
2.2500	0.2102	2.2927	18.9908	5.0145	138.2879	36.5146
2.3750	0.1928	2.0423	27.9071	7.3688	166.1950	43.8834
2.5000	0.1768	1.8137	49.9020	13.1765	216.0970	57.0599
2.6250	0.1621	1.6058	49.1440	12.9763	265.2409	70.0362
2.7500	0.1487	1.4175	27.7617	7.3304	293.0027	77.3666
2.8750	0.1363	1.2476	13.4111	3.5412	306.4138	80.9078
3.0000	0.1250	1.0949	12.3693	3.2661	318.7831	84.1739
3.1250	0.1146	0.9582	17.4859	4.6171	336.2690	88.7910
3.2500	0.1051	0.8364	12.5860	3.3233	348.8550	92.1143
3.3750	0.0964	0.7282	11.3451	2.9956	360.2001	95.1099
3.5000	0.0884	0.6326	8.5074	2.2464	368.7075	97.3563
3.6250	0.0811	0.5484	3.5523	0.9380	372.2597	98.2943
3.7500	0.0743	0.4744	6.4600	1.7057	378.7197	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	378.7197	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	378.7197	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	378.7197	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	378.7197	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	378.7197	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	378.7197	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C44\_S3

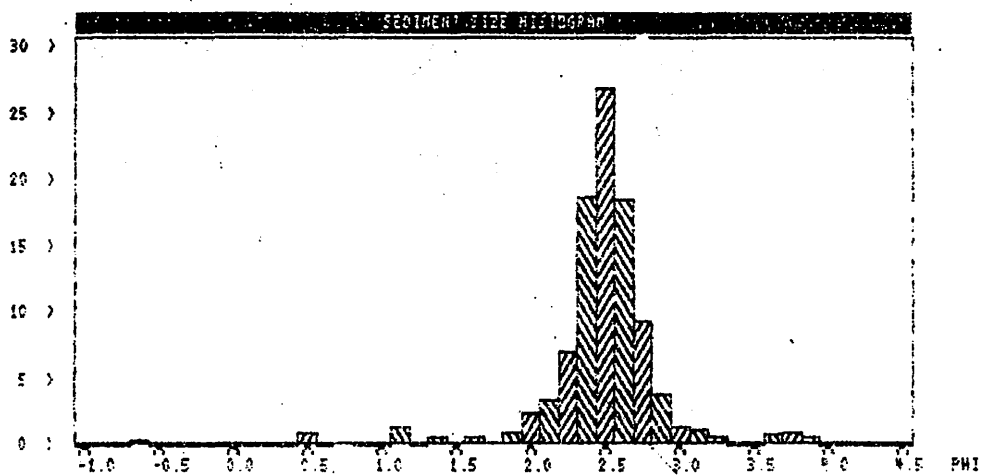
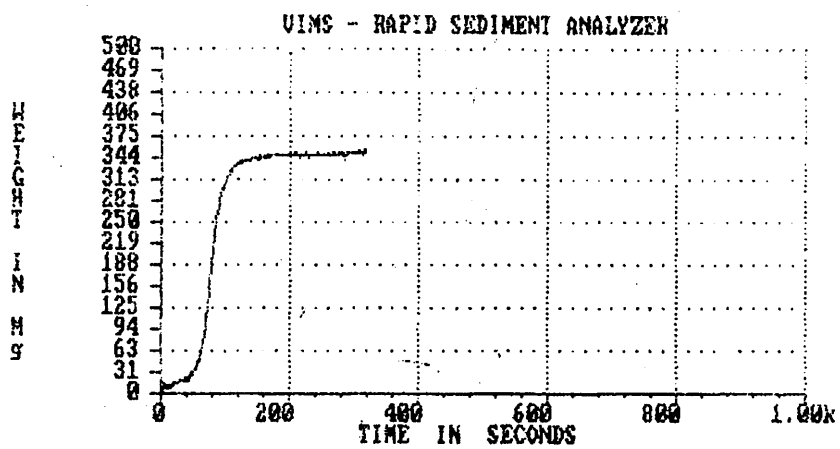
CORE 44 S-3 1.77-3.52M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
568.4420 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.4076 0.4468 -2.0464 15.4483 M1 M2 M3 M4 (phi)  
2.4379 2.4389 0.2754 -0.0586 0.2704 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.1826	0.3404	1.1826	0.3404
-0.5000	1.4142	15.6003	0.0000	0.0000	1.1826	0.3404
-0.3750	1.2968	14.5884	0.0000	0.0000	1.1826	0.3404
-0.2500	1.1892	13.6217	0.0000	0.0000	1.1826	0.3404
-0.1250	1.0905	12.6995	0.0000	0.0000	1.1826	0.3404
0.0000	1.0000	11.8208	0.1552	0.0447	1.3379	0.3851
0.1250	0.9170	10.9848	0.0000	0.0000	1.3379	0.3851
0.2500	0.8409	10.1905	0.0000	0.0000	1.3379	0.3851
0.3750	0.7711	9.4370	0.0000	0.0000	1.3379	0.3851
0.5000	0.7071	8.7233	3.5123	1.0111	4.8502	1.3962
0.6250	0.6484	8.0484	0.0000	0.0000	4.8502	1.3962
0.7500	0.5946	7.4111	0.2363	0.0680	5.0865	1.4642
0.8750	0.5453	6.8104	0.1794	0.0516	5.2659	1.5159
1.0000	0.5000	6.2452	0.0000	0.0000	5.2659	1.5159
1.1250	0.4585	5.7143	4.4237	1.2734	9.6896	2.7893
1.2500	0.4204	5.2167	0.0000	0.0000	9.6896	2.7893
1.3750	0.3856	4.7510	2.1161	0.6091	11.8056	3.3984
1.5000	0.3536	4.3163	0.7943	0.2286	12.5999	3.6271
1.6250	0.3242	3.9113	1.7611	0.5070	14.3610	4.1340
1.7500	0.2973	3.5349	0.4306	0.1239	14.7916	4.2580
1.8750	0.2726	3.1860	3.6549	1.0521	18.4464	5.3101
2.0000	0.2500	2.8634	8.2157	2.3650	26.6621	7.6751
2.1250	0.2293	2.5660	11.5645	3.3290	38.2267	11.0041
2.2500	0.2102	2.2927	24.2523	6.9814	62.4790	17.9856
2.3750	0.1928	2.0423	64.0997	18.4521	126.5787	36.4377
2.5000	0.1768	1.8137	92.1836	26.5365	218.7623	62.9742
2.6250	0.1621	1.6058	63.8716	18.3864	282.6339	81.3606
2.7500	0.1487	1.4175	32.4181	9.3321	315.0520	90.6927
2.8750	0.1363	1.2476	13.1719	3.7917	328.2239	94.4844
3.0000	0.1250	1.0949	4.9641	1.4290	333.1880	95.9134
3.1250	0.1146	0.9582	4.3627	1.2559	337.5506	97.1693
3.2500	0.1051	0.8364	2.2492	0.6475	339.7998	97.8167
3.3750	0.0964	0.7282	0.0000	0.0000	339.7998	97.8167
3.5000	0.0884	0.6326	0.0000	0.0000	339.7998	97.8167
3.6250	0.0811	0.5484	2.4562	0.7070	342.2560	98.5238
3.7500	0.0743	0.4744	3.2107	0.9243	345.4667	99.4480
3.8750	0.0682	0.4098	1.9175	0.5520	347.3842	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	347.3842	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	347.3842	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	347.3842	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	347.3842	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	347.3842	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C44\_S4

CORE 44 S-4 3.52-4.00M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CP

654.6289 Dry Sand Fraction Weight (mg)

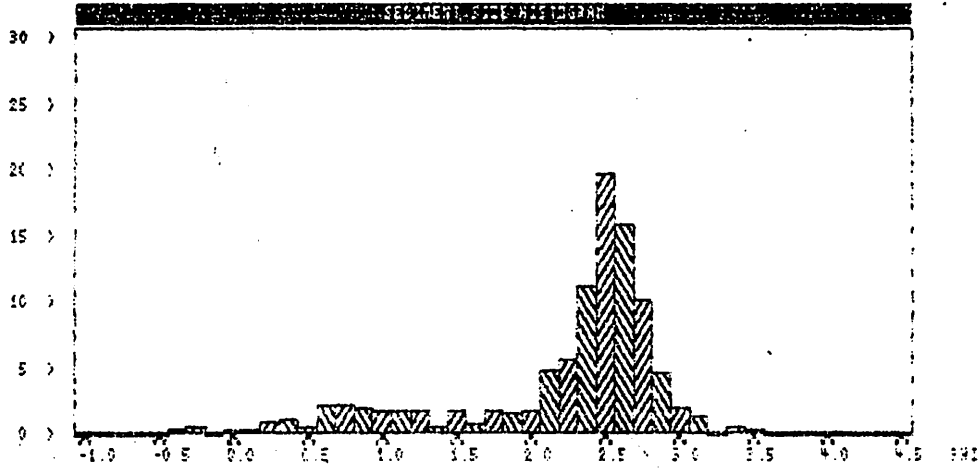
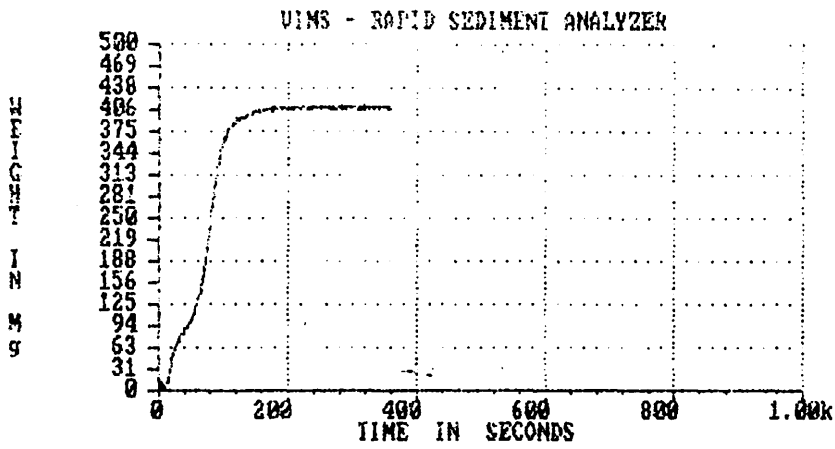
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wn=0.913

2.1288 0.7418 -1.4244 4.2829 M1 M2 M3 M4 (phi)

2.0987 2.4023 0.7112 -0.6224 0.5461 Mz,Md,Sl,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.8543	0.4596	1.8543	0.4596
-0.2500	1.1892	13.6217	2.0332	0.5039	3.8875	0.9636
-0.1250	1.0905	12.6995	0.0391	0.0097	3.9266	0.9733
0.0000	1.0000	11.8208	1.6799	0.4164	5.6066	1.3896
0.1250	0.9170	10.9848	1.1454	0.2839	6.7520	1.6736
0.2500	0.8409	10.1905	4.2837	1.0618	11.0357	2.7353
0.3750	0.7711	9.4370	4.8005	1.1898	15.8362	3.9252
0.5000	0.7071	8.7233	2.4379	0.6043	18.2741	4.5294
0.6250	0.6484	8.0484	8.9390	2.2156	27.2131	6.7451
0.7500	0.5946	7.4111	8.8747	2.1997	36.0878	8.9448
0.8750	0.5453	6.8104	8.1137	2.0111	44.2015	10.9558
1.0000	0.5000	6.2452	6.7678	1.6775	50.9693	12.6333
1.1250	0.4585	5.7143	7.5415	1.8692	58.5108	14.5026
1.2500	0.4204	5.2167	7.0984	1.7594	65.6092	16.2620
1.3750	0.3856	4.7510	1.9513	0.4836	67.5605	16.7456
1.5000	0.3536	4.3163	6.8762	1.7043	74.4367	18.4500
1.6250	0.3242	3.9113	3.4001	0.8428	77.8369	19.2927
1.7500	0.2973	3.5349	7.1806	1.7798	85.0175	21.0725
1.8750	0.2726	3.1860	5.9876	1.4841	91.0050	22.5566
2.0000	0.2500	2.8634	7.2815	1.8048	98.2865	24.3614
2.1250	0.2293	2.5660	19.5261	4.8398	117.8126	29.2012
2.2500	0.2102	2.2927	22.3673	5.5440	140.1800	34.7452
2.3750	0.1928	2.0423	44.2593	10.9702	184.4393	45.7153
2.5000	0.1768	1.8137	79.2331	19.6388	263.6724	65.3542
2.6250	0.1621	1.6058	63.1156	15.6439	326.7880	80.9981
2.7500	0.1487	1.4175	40.5173	10.0427	367.3053	91.0407
2.8750	0.1363	1.2476	18.3056	4.5372	385.6109	95.5780
3.0000	0.1250	1.0949	8.2241	2.0384	393.8349	97.6164
3.1250	0.1146	0.9582	5.5022	1.3638	399.3371	98.9802
3.2500	0.1051	0.8364	0.0000	0.0000	399.3371	98.9802
3.3750	0.0964	0.7282	2.5329	0.6278	401.8700	99.6080
3.5000	0.0884	0.6326	1.5817	0.3920	403.4516	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	403.4516	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	403.4516	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	403.4516	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	403.4516	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	403.4516	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	403.4516	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	403.4516	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	403.4516	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C44\_S5

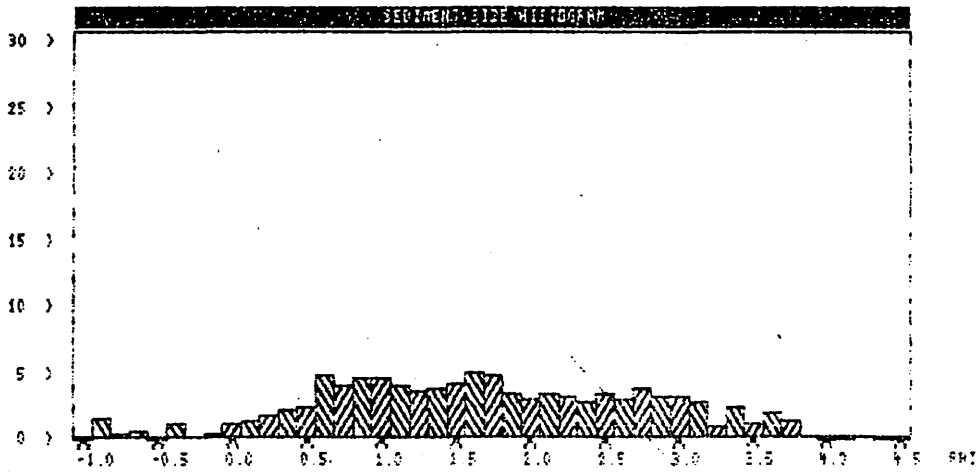
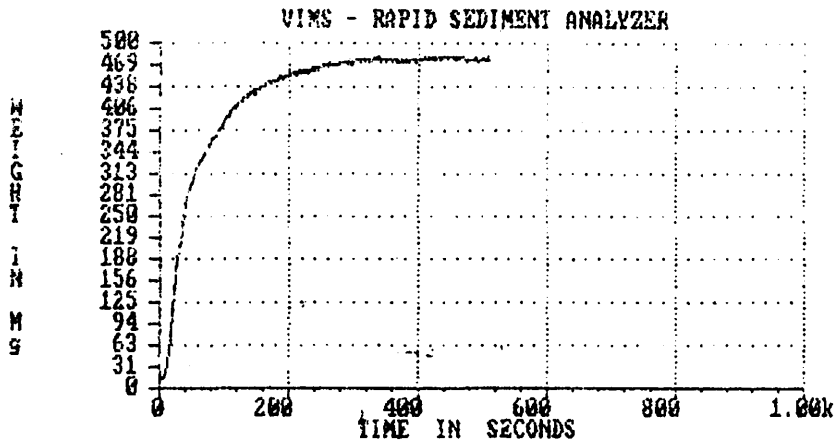
CORE 44 S-5 4.00-5.15M

VA. BEACH

0.0            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
765.1049    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using Wn=0.977Ws=0.913  
1.6265    1.0621   -0.0510   2.4453   M1 M2 M3 M4 (phi)  
1.6565    1.5818   1.0734   0.0743   0.6561   Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	7.0288	1.5057	7.0288	1.5057
-0.7500	1.6818	17.7631	1.7650	0.3781	8.7938	1.8838
-0.6250	1.5422	16.6582	2.4538	0.5256	11.2476	2.4094
-0.5000	1.4142	15.6003	0.0000	0.0000	11.2476	2.4094
-0.3750	1.2968	14.5884	5.9270	1.2696	17.1746	3.6790
-0.2500	1.1892	13.6217	0.4445	0.0952	17.6191	3.7743
-0.1250	1.0905	12.6995	2.0735	0.4442	19.6926	4.2184
0.0000	1.0000	11.8208	5.6054	1.2008	25.2980	5.4192
0.1250	0.9170	10.9848	6.2450	1.3378	31.5430	6.7570
0.2500	0.8409	10.1905	8.1341	1.7424	39.6771	8.4994
0.3750	0.7711	9.4370	9.7748	2.0939	49.4520	10.5933
0.5000	0.7071	8.7233	10.7441	2.3015	60.1960	12.8948
0.6250	0.6484	8.0484	22.2138	4.7585	82.4098	17.6533
0.7500	0.5946	7.4111	19.0355	4.0777	101.4454	21.7310
0.8750	0.5453	6.8104	21.9009	4.6915	123.3463	26.4225
1.0000	0.5000	6.2452	21.8736	4.6856	145.2199	31.1081
1.1250	0.4585	5.7143	18.9603	4.0616	164.1802	35.1697
1.2500	0.4204	5.2167	17.2198	3.6887	181.4000	38.8584
1.3750	0.3856	4.7510	17.4167	3.7309	198.8167	42.5893
1.5000	0.3536	4.3163	19.3153	4.1376	218.1320	46.7269
1.6250	0.3242	3.9113	23.3541	5.0028	241.4862	51.7297
1.7500	0.2973	3.5349	22.5176	4.8236	264.0037	56.5533
1.8750	0.2726	3.1860	16.2141	3.4733	280.2178	60.0265
2.0000	0.2500	2.8634	13.6731	2.9290	293.8909	62.9555
2.1250	0.2293	2.5660	15.6016	3.3421	309.4925	66.2976
2.2500	0.2102	2.2927	15.3433	3.2867	324.8358	69.5843
2.3750	0.1928	2.0423	12.6430	2.7083	337.4789	72.2926
2.5000	0.1768	1.8137	15.7033	3.3639	353.1822	75.6565
2.6250	0.1621	1.6058	13.9741	2.9934	367.1563	78.6500
2.7500	0.1487	1.4175	18.1022	3.8778	385.2585	82.5277
2.8750	0.1363	1.2476	15.2627	3.2695	400.5213	85.7972
3.0000	0.1250	1.0949	14.8868	3.1890	415.4081	88.9862
3.1250	0.1146	0.9582	13.2982	2.8486	428.7062	91.8348
3.2500	0.1051	0.8364	4.4656	0.9566	433.1718	92.7914
3.3750	0.0964	0.7282	10.7281	2.2981	443.8998	95.0895
3.5000	0.0884	0.6326	5.8710	1.2577	449.7709	96.3472
3.6250	0.0811	0.5484	9.0977	1.9489	458.8686	98.2960
3.7500	0.0743	0.4744	6.5514	1.4034	465.4200	99.6994
3.8750	0.0682	0.4098	0.4008	0.0859	465.8208	99.7853
4.0000	0.0625	0.3533	0.0000	0.0000	465.8208	99.7853
4.1250	0.0573	0.3043	0.0000	0.0000	465.8208	99.7853
4.2500	0.0526	0.2617	1.0024	0.2147	466.8232	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	466.8232	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	466.8232	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C44\_S6

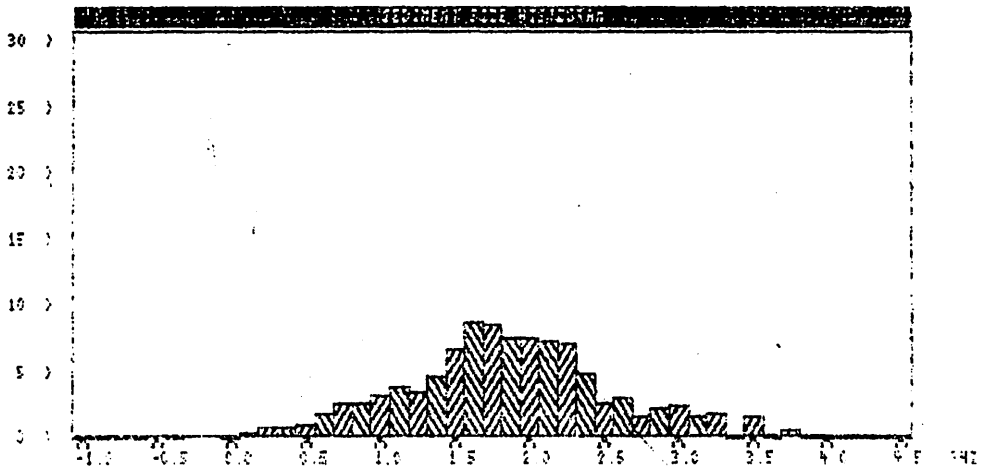
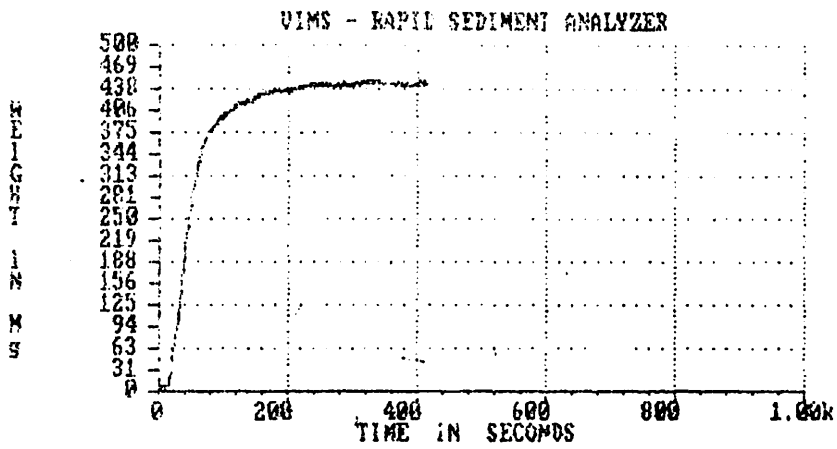
CORE 44 S-6 5.15-5.24M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
713.7845 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.97/Wa=0.913  
1.7835 0.7088 0.0497 3.1473 M1 M2 M3 M4 (phi)  
1.7636 1.7677 0.7077 0.0221 0.6065 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.6516	0.1482	0.6516	0.1482
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6516	0.1482
-0.2500	1.1892	13.6217	0.6540	0.1488	1.3056	0.2970
-0.1250	1.0905	12.6995	1.0750	0.2445	2.3806	0.5415
0.0000	1.0000	11.8208	0.0000	0.0000	2.3806	0.5415
0.1250	0.9170	10.9848	1.3009	0.2959	3.6815	0.8374
0.2500	0.8409	10.1905	3.2398	0.7370	6.9213	1.5744
0.3750	0.7711	9.4370	3.6763	0.8363	10.5976	2.4107
0.5000	0.7071	8.7233	4.1188	0.9369	14.7163	3.3476
0.6250	0.6484	8.0484	7.5916	1.7269	22.3080	5.0746
0.7500	0.5946	7.4111	11.1053	2.5262	33.4133	7.6008
0.8750	0.5453	6.8104	11.7797	2.6796	45.1930	10.2804
1.0000	0.5000	6.2452	14.1240	3.2129	59.3170	13.4933
1.1250	0.4585	5.7143	17.0003	3.8672	76.3173	17.3604
1.2500	0.4204	5.2167	14.9067	3.3909	91.2241	20.7514
1.3750	0.3856	4.7510	20.5080	4.6651	111.7320	25.4165
1.5000	0.3536	4.3163	28.9749	6.5911	140.7069	32.0076
1.6250	0.3242	3.9113	37.7549	8.5884	178.4618	40.5960
1.7500	0.2973	3.5349	36.7268	8.3545	215.1886	48.9504
1.8750	0.2726	3.1860	32.4973	7.3924	247.6859	56.3428
2.0000	0.2500	2.8634	32.8526	7.4732	280.5386	63.8161
2.1250	0.2293	2.5660	31.3509	7.1316	311.8895	70.9477
2.2500	0.2102	2.2927	30.5420	6.9476	342.4315	77.8953
2.3750	0.1928	2.0423	20.8882	4.7516	363.3197	82.6469
2.5000	0.1768	1.8137	11.0692	2.5180	374.3890	85.1649
2.6250	0.1621	1.6058	13.4422	3.0578	387.8312	88.2227
2.7500	0.1487	1.4175	6.9506	1.5811	394.7818	89.8038
2.8750	0.1363	1.2476	9.7783	2.2243	404.5602	92.0281
3.0000	0.1250	1.0949	10.5117	2.3912	415.0718	94.4193
3.1250	0.1146	0.9582	7.1172	1.6190	422.1890	96.0383
3.2500	0.1051	0.8364	7.6797	1.7470	429.8687	97.7852
3.3750	0.0964	0.7282	0.0554	0.0126	429.9242	97.7978
3.5000	0.0884	0.6326	7.3180	1.6647	437.2422	99.4625
3.6250	0.0811	0.5484	0.0000	0.0000	437.2422	99.4625
3.7500	0.0743	0.4744	2.3628	0.5375	439.6050	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	439.6050	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	439.6050	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	439.6050	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	439.6050	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	439.6050	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	439.6050	100.0000

- - fall velocity of natural grains in fresh water at 20°C



C45\_S1

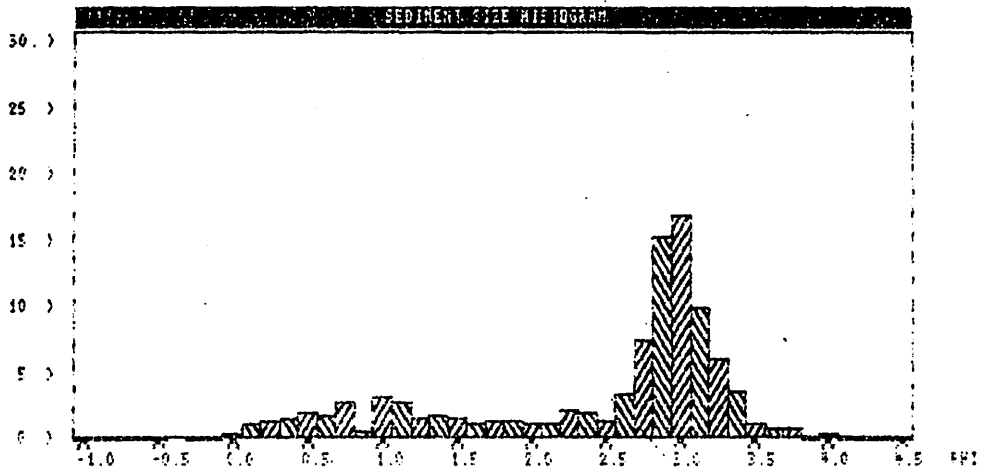
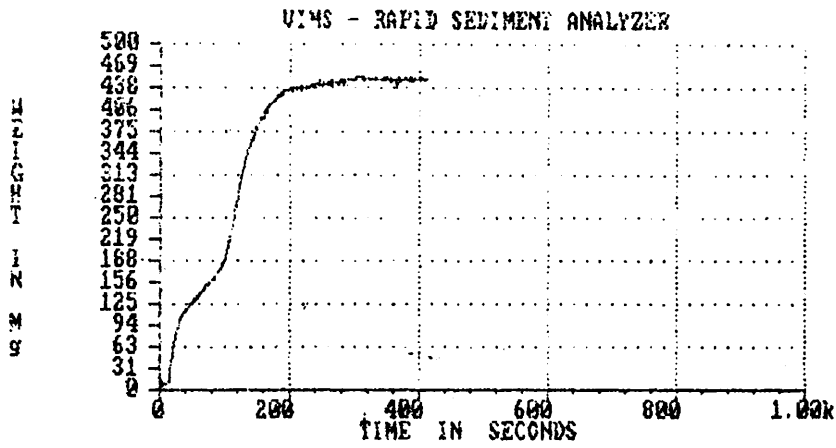
CORE 45 S-1 0-0.25M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
720.0526 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n^{*0.913}$   
2.3497 0.9508 -1.0346 2.7899 M1 M2 M3 M4 (phi)  
2.3054 2.7671 0.9518 -0.6740 0.5261 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.0265	0.2328	1.0265	0.2328
-0.2500	1.1892	13.6217	0.0000	0.0000	1.0265	0.2328
-0.1250	1.0905	12.6995	0.0000	0.0000	1.0265	0.2328
0.0000	1.0000	11.8208	1.1977	0.2716	2.2243	0.5045
0.1250	0.9170	10.9848	4.7171	1.0698	6.9414	1.5743
0.2500	0.8409	10.1905	6.4214	1.4563	13.3628	3.0306
0.3750	0.7711	9.4370	7.1550	1.6227	20.5178	4.6533
0.5000	0.7071	8.7233	8.7704	1.9891	29.2882	6.6424
0.6250	0.6484	8.0484	7.4997	1.7009	36.7879	8.3433
0.7500	0.5946	7.4111	12.1950	2.7658	48.9829	11.1091
0.8750	0.5453	6.8104	2.9112	0.6603	51.8941	11.7693
1.0000	0.5000	6.2452	14.2318	3.2277	66.1259	14.9970
1.1250	0.4585	5.7143	12.4668	2.8274	78.5928	17.8244
1.2500	0.4204	5.2167	6.7443	1.5296	85.3371	19.3540
1.3750	0.3856	4.7510	7.6941	1.7450	93.0312	21.0990
1.5000	0.3536	4.3163	6.8077	1.5439	99.8389	22.6429
1.6250	0.3242	3.9113	5.2012	1.1796	105.0401	23.8226
1.7500	0.2973	3.5349	5.8245	1.3210	110.8646	25.1435
1.8750	0.2726	3.1860	6.2139	1.4093	117.0785	26.5528
2.0000	0.2500	2.8634	5.0977	1.1561	122.1762	27.7089
2.1250	0.2293	2.5660	5.4564	1.2375	127.6325	28.9464
2.2500	0.2102	2.2927	9.4168	2.1357	137.0494	31.0821
2.3750	0.1928	2.0423	9.1549	2.0763	146.2043	33.1584
2.5000	0.1768	1.8137	6.4775	1.4691	152.6818	34.6275
2.6250	0.1621	1.6058	14.9640	3.3938	167.6458	38.0212
2.7500	0.1487	1.4175	33.0778	7.5019	200.7236	45.5231
2.8750	0.1363	1.2476	66.4948	15.0807	267.2185	60.6038
3.0000	0.1250	1.0949	73.4167	16.6505	340.6352	77.2543
3.1250	0.1146	0.9582	43.9001	9.9563	384.5353	87.2106
3.2500	0.1051	0.8364	26.2554	5.9546	410.7907	93.1652
3.3750	0.0964	0.7282	16.2197	3.6786	427.0104	96.8438
3.5000	0.0884	0.6326	5.5594	1.2609	432.5699	98.1046
3.6250	0.0811	0.5484	3.7694	0.8549	436.3393	98.9595
3.7500	0.0743	0.4744	2.9323	0.6650	439.2716	99.6246
3.8750	0.0682	0.4098	0.0000	0.0000	439.2716	99.6246
4.0000	0.0625	0.3533	1.6554	0.3754	440.9270	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	440.9270	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	440.9270	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	440.9270	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	440.9270	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

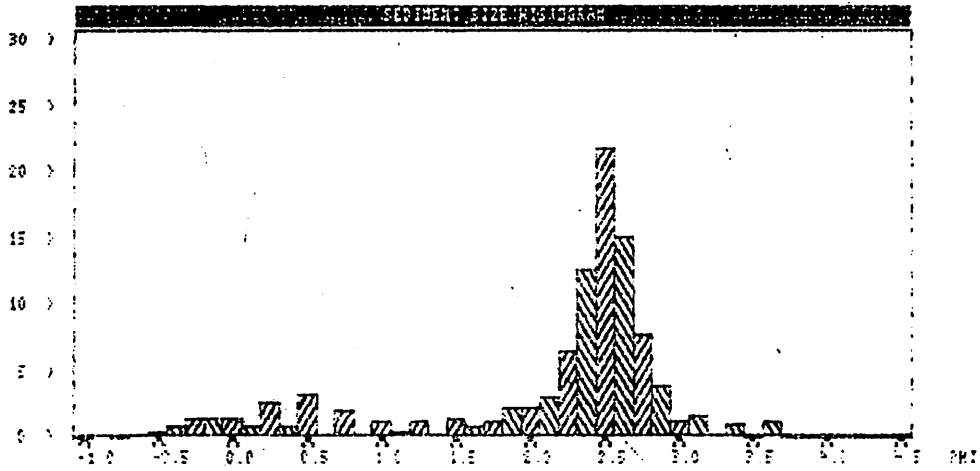
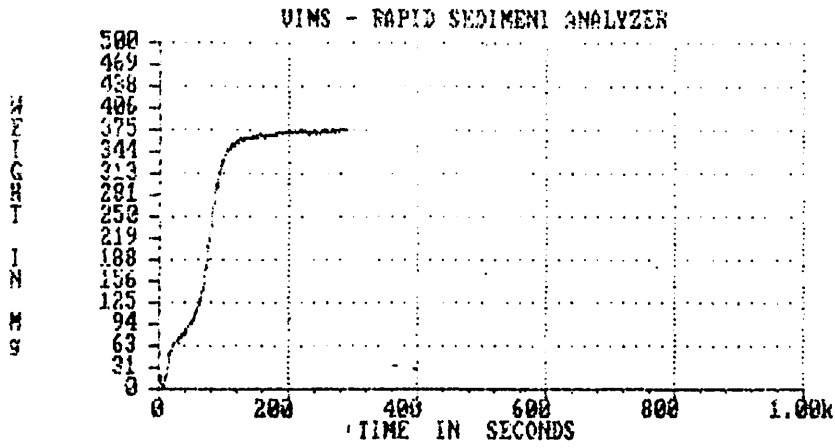


C45\_S4  
 CORE 45 S-4 1.60-2.22M  
 VA. BEACH

C.O            0.0            0.00    Lat   Lon   Depth(m)   Operator: CF  
 601.3497    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using Wn=0.977Ws=0.913  
 2.0494    0.8972   -1.4322   4.0705   M1 M2 M3 M4 (phi)  
 2.0001    2.3913   0.8548   -0.6898   0.6863   Mz,Md,Sl,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.3299	0.0893	0.3299	0.0893
-0.7500	1.6818	17.7631	0.0000	0.0000	0.3299	0.0893
-0.6250	1.5422	16.6582	0.6696	0.1812	0.9995	0.2706
-0.5000	1.4142	15.6003	1.1150	0.3018	2.1144	0.5724
-0.3750	1.2968	14.5884	2.9215	0.7908	5.0359	1.3632
-0.2500	1.1892	13.6217	5.3181	1.4396	10.3540	2.8027
-0.1250	1.0905	12.6995	4.8441	1.3113	15.1981	4.1140
0.0000	1.0000	11.8208	4.9477	1.3393	20.1459	5.4533
0.1250	0.9170	10.9848	2.5682	0.6952	22.7141	6.1485
0.2500	0.8409	10.1905	9.9062	2.6815	32.6202	8.8300
0.3750	0.7711	9.4370	2.9548	0.7998	35.5750	9.6298
0.5000	0.7071	8.7233	12.0829	3.2707	47.6579	12.9006
0.6250	0.6484	8.0484	0.2244	0.0607	47.8823	12.9613
0.7500	0.5946	7.4111	7.1031	1.9227	54.9854	14.8840
0.8750	0.5453	6.8104	0.6936	0.1878	55.6790	15.0718
1.0000	0.5000	6.2452	4.1453	1.1221	59.8243	16.1939
1.1250	0.4585	5.7143	1.3279	0.3594	61.1522	16.5533
1.2500	0.4204	5.2167	4.3501	1.1775	65.5023	17.7309
1.3750	0.3856	4.7510	0.3390	0.0918	65.8413	17.8226
1.5000	0.3536	4.3163	4.7428	1.2838	70.5841	19.1064
1.6250	0.3242	3.9113	2.5101	0.6795	73.0942	19.7859
1.7500	0.2973	3.5349	4.2174	1.1416	77.3116	20.9275
1.8750	0.2726	3.1860	8.3586	2.2626	85.6702	23.1901
2.0000	0.2500	2.8634	7.9278	2.1460	93.5980	25.3361
2.1250	0.2293	2.5660	11.2109	3.0347	104.8089	28.3708
2.2500	0.2102	2.2927	23.4921	6.3591	128.3009	34.7299
2.3750	0.1928	2.0423	46.0684	12.4703	174.3694	47.2001
2.5000	0.1768	1.8137	79.4977	21.5193	253.8671	68.7194
2.6250	0.1621	1.6058	55.1616	14.9317	309.0287	83.6511
2.7500	0.1487	1.4175	28.1100	7.6091	337.1387	91.2603
2.8750	0.1363	1.2476	14.0170	3.7943	351.1558	95.0545
3.0000	0.1250	1.0949	4.2674	1.1552	355.4232	96.2097
3.1250	0.1146	0.9582	5.9654	1.6148	361.3886	97.8245
3.2500	0.1051	0.8364	0.4394	0.1189	361.8280	97.9434
3.3750	0.0964	0.7282	3.3022	0.8939	365.1301	98.8373
3.5000	0.0884	0.6326	0.0000	0.0000	365.1301	98.8373
3.6250	0.0811	0.5484	4.2954	1.1627	369.4256	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	369.4256	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	369.4256	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	369.4256	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	369.4256	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	369.4256	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.4256	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.4256	100.0000

- fall velocity of natural grains in fresh water at 20°C



C45\_S5

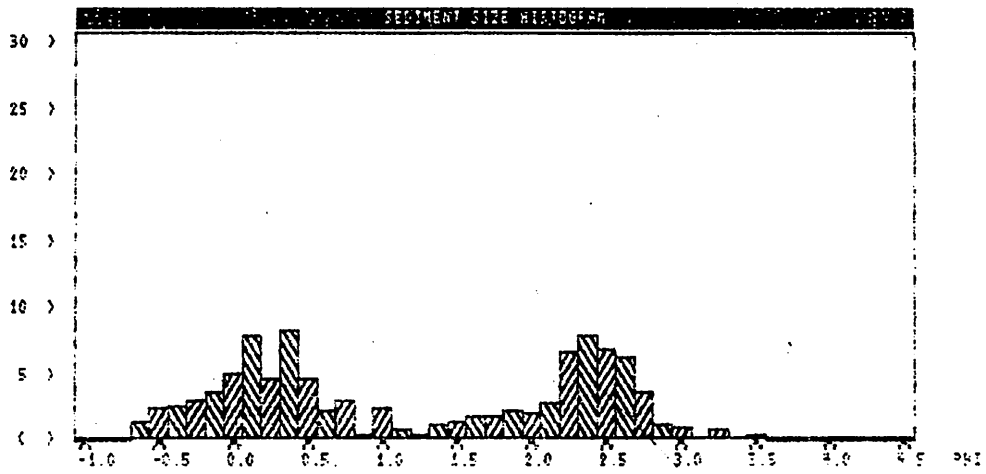
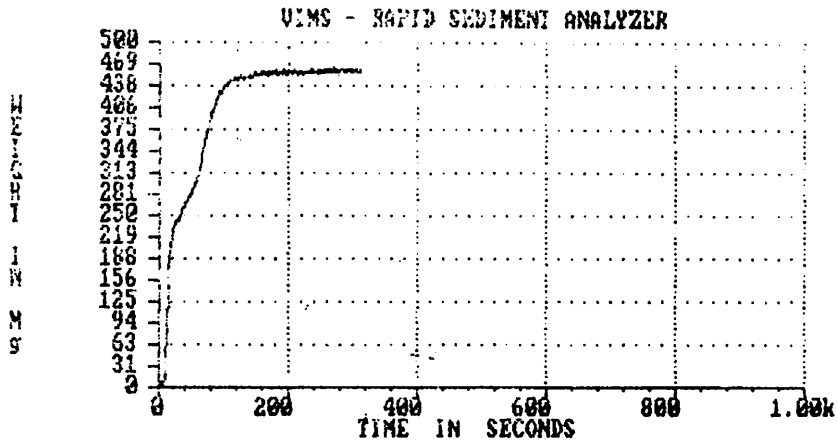
CORE 45 S-5 2.22-2.36M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
734.9395 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Wb^{0.913}$   
1.1602 1.1386 0.0725 1.4656 M1 M2 M3 M4 (phi)  
1.1130 0.9365 1.1004 0.1677 0.5719 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	6.2981	1.3855	6.2981	1.3855
-0.5000	1.4142	15.6003	10.7974	2.3752	17.0956	3.7607
-0.3750	1.2968	14.5884	11.6061	2.5531	28.7017	6.3138
-0.2500	1.1892	13.6217	13.5236	2.9749	42.2253	9.2887
-0.1250	1.0905	12.6995	16.5194	3.6339	58.7447	12.9226
0.0000	1.0000	11.8208	22.7642	5.0077	81.5089	17.9303
0.1250	0.9170	10.9848	35.7459	7.8634	117.2549	25.7936
0.2500	0.8409	10.1905	20.6231	4.5367	137.8780	30.3303
0.3750	0.7711	9.4370	37.4282	8.2334	175.3062	38.5637
0.5000	0.7071	8.7233	21.3834	4.7039	196.6896	43.2676
0.6250	0.6484	8.0484	9.8340	2.1633	206.5236	45.4309
0.7500	0.5946	7.4111	13.7155	3.0171	220.2391	48.4480
0.8750	0.5453	6.8104	1.8107	0.3983	222.0498	48.8464
1.0000	0.5000	6.2452	10.6567	2.3443	232.7065	51.1906
1.1250	0.4585	5.7143	3.7649	0.8282	236.4714	52.0188
1.2500	0.4204	5.2167	1.9551	0.4301	238.4264	52.4489
1.3750	0.3856	4.7510	5.4679	1.2028	243.8944	53.6517
1.5000	0.3536	4.3163	5.8738	1.2921	249.7682	54.9438
1.6250	0.3242	3.9113	8.2125	1.8066	257.9806	56.7504
1.7500	0.2973	3.5349	7.6260	1.6776	265.6067	58.4280
1.8750	0.2726	3.1860	9.9727	2.1938	275.5794	60.6218
2.0000	0.2500	2.8634	8.9626	1.9716	284.5420	62.5933
2.1250	0.2293	2.5660	12.8339	2.8232	297.3758	65.4165
2.2500	0.2102	2.2927	30.4934	6.7079	327.8693	72.1245
2.3750	0.1928	2.0423	35.4868	7.8064	363.3561	79.9308
2.5000	0.1768	1.8137	30.6101	6.7336	393.9662	86.6644
2.6250	0.1621	1.6058	28.1426	6.1908	422.1088	92.8552
2.7500	0.1487	1.4175	16.1180	3.5456	438.2267	96.4008
2.8750	0.1363	1.2476	5.0289	1.1063	443.2557	97.5071
3.0000	0.1250	1.0949	4.0391	0.8885	447.2947	98.3956
3.1250	0.1146	0.9582	0.9561	0.2103	448.2509	98.6059
3.2500	0.1051	0.8364	3.6584	0.8048	451.9092	99.4107
3.3750	0.0964	0.7282	0.7363	0.1620	452.6455	99.5727
3.5000	0.0884	0.6326	1.9427	0.4273	454.5882	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	454.5882	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	454.5882	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	454.5882	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	454.5882	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	454.5882	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	454.5882	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	454.5882	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	454.5882	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C45\_S6

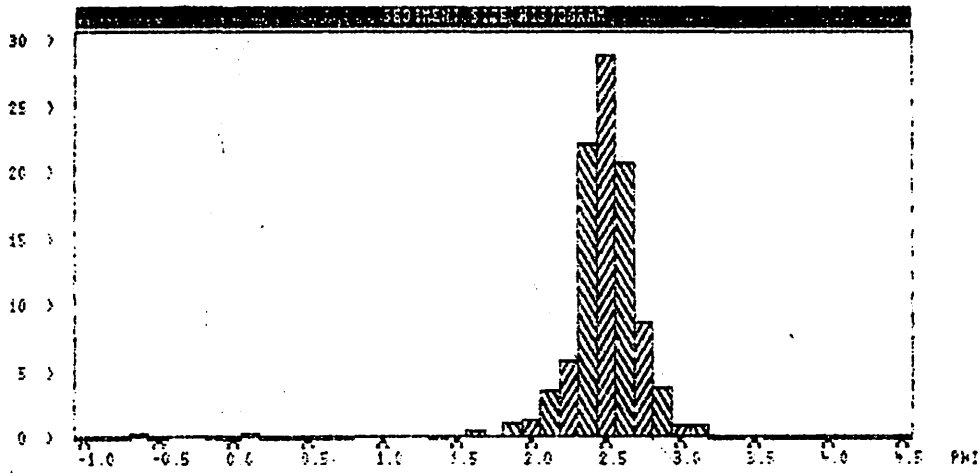
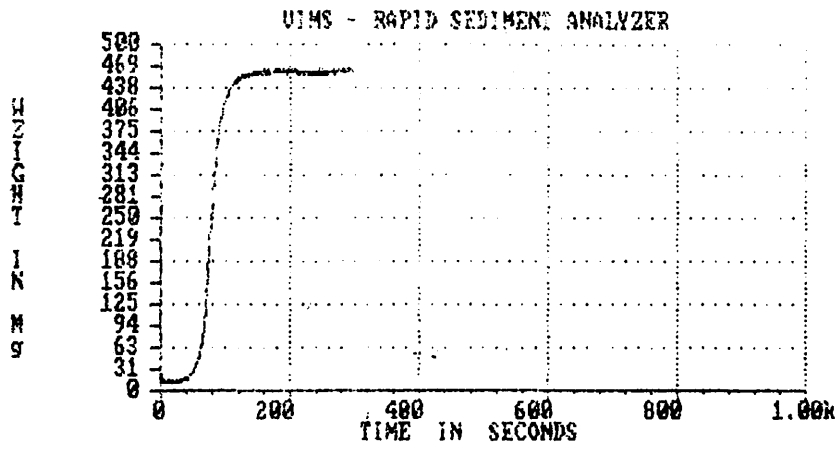
CORE 45 S-6 2.36-2.90M

VA/ BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
739.2488 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wn=0.913  
2.4063 0.3410 -4.3386 35.1549 M1 M2 M3 M4 (phi)  
2.4378 2.4357 0.2051 -0.0396 0.1945 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Om.Wt(mg)	Om.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.2402	0.2741	1.2402	0.2741
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2402	0.2741
-0.3750	1.2968	14.5884	0.3388	0.0749	1.5789	0.3490
-0.2500	1.1892	13.6217	0.3405	0.0753	1.9195	0.4242
-0.1250	1.0905	12.6995	0.0000	0.0000	1.9195	0.4242
0.0000	1.0000	11.8208	0.0000	0.0000	1.9195	0.4242
0.1250	0.9170	10.9848	1.4410	0.3185	3.3605	0.7427
0.2500	0.8409	10.1905	0.0000	0.0000	3.3605	0.7427
0.3750	0.7711	9.4370	0.0000	0.0000	3.3605	0.7427
0.5000	0.7071	8.7233	0.0000	0.0000	3.3605	0.7427
0.6250	0.6484	8.0484	0.0000	0.0000	3.3605	0.7427
0.7500	0.5946	7.4111	0.0000	0.0000	3.3605	0.7427
0.8750	0.5453	6.8104	0.4423	0.0978	3.8028	0.8405
1.0000	0.5000	6.2452	1.0792	0.2385	4.8820	1.0790
1.1250	0.4585	5.7143	0.5561	0.1229	5.4381	1.2019
1.2500	0.4204	5.2167	0.7240	0.1600	6.1621	1.3619
1.3750	0.3856	4.7510	0.0000	0.0000	6.1621	1.3619
1.5000	0.3536	4.3163	0.8596	0.1900	7.0216	1.5518
1.6250	0.3242	3.9113	2.1843	0.4827	9.2059	2.0346
1.7500	0.2973	3.5349	0.7132	0.1576	9.9191	2.1922
1.8750	0.2726	3.1860	4.8459	1.0710	14.7650	3.2632
2.0000	0.2500	2.8634	5.7965	1.2811	20.5616	4.5443
2.1250	0.2293	2.5660	16.6354	3.6766	37.1969	8.2209
2.2500	0.2102	2.2927	26.5403	5.8657	63.7372	14.0865
2.3750	0.1928	2.0423	99.6975	22.0341	163.4347	36.1206
2.5000	0.1768	1.8137	129.2566	28.5670	292.6913	64.6876
2.6250	0.1621	1.6058	93.4304	20.6490	386.1217	85.3366
2.7500	0.1487	1.4175	39.2556	8.6759	425.3773	94.0125
2.8750	0.1363	1.2476	17.6135	3.8928	442.9908	97.9052
3.0000	0.1250	1.0949	4.4150	0.9758	447.4058	98.8810
3.1250	0.1146	0.9582	4.4892	0.9922	451.8950	99.8731
3.2500	0.1051	0.8364	0.0000	0.0000	451.8950	99.8731
3.3750	0.0964	0.7282	0.0000	0.0000	451.8950	99.8731
3.5000	0.0884	0.6326	0.5740	0.1269	452.4690	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	452.4690	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	452.4690	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	452.4690	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	452.4690	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	452.4690	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	452.4690	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	452.4690	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	452.4690	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

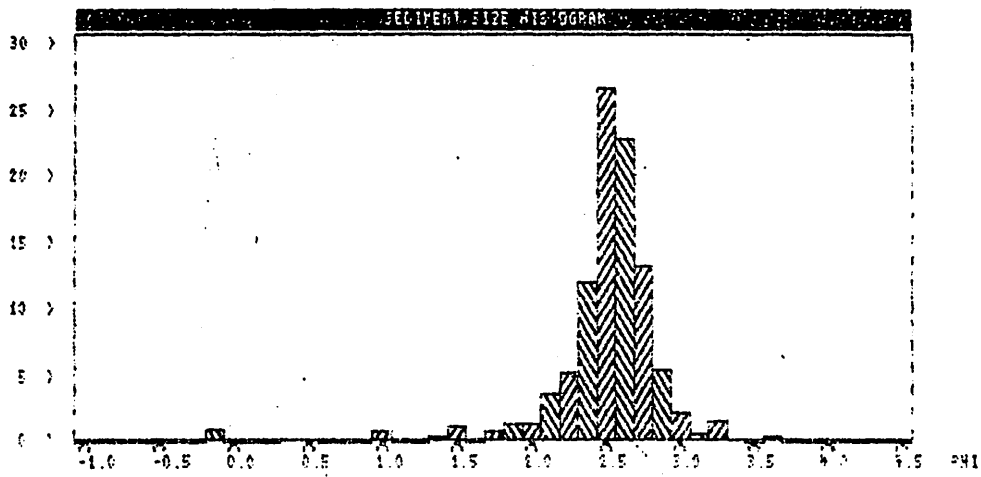
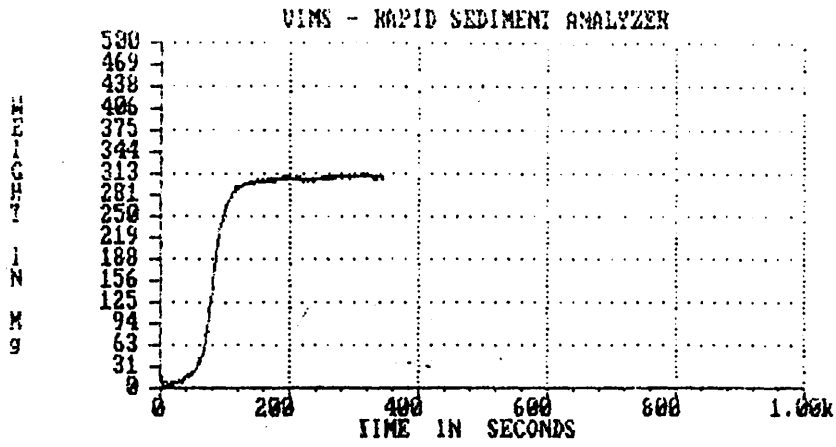


C45\_S7  
 CORE 45 S-7 2.90-3.5M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 489.6985 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n^{0.913}$   
 2.4269 0.4271 -3.1158 18.6770 M1 M2 M3 M4 (phi)  
 2.4754 2.4802 0.2715 -0.1490 0.2627 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	3.1874	1.0469	3.1874	1.0469
0.0000	1.0000	11.8208	0.0000	0.0000	3.1874	1.0469
0.1250	0.9170	10.9848	0.0000	0.0000	3.1874	1.0469
0.2500	0.8409	10.1905	0.0000	0.0000	3.1874	1.0469
0.3750	0.7711	9.4370	0.6047	0.1986	3.7921	1.2455
0.5000	0.7071	8.7233	0.3615	0.1187	4.1536	1.3642
0.6250	0.6484	8.0484	0.0000	0.0000	4.1536	1.3642
0.7500	0.5946	7.4111	0.0000	0.0000	4.1536	1.3642
0.8750	0.5453	6.8104	0.0000	0.0000	4.1536	1.3642
1.0000	0.5000	6.2452	2.0858	0.6851	6.2394	2.0493
1.1250	0.4585	5.7143	0.1388	0.0456	6.3782	2.0949
1.2500	0.4204	5.2167	0.0000	0.0000	6.3782	2.0949
1.3750	0.3856	4.7510	1.3162	0.4323	7.6944	2.5272
1.5000	0.3536	4.3163	3.2859	1.0792	10.9803	3.6064
1.6250	0.3242	3.9113	0.0000	0.0000	10.9803	3.6064
1.7500	0.2973	3.5349	2.1885	0.7188	13.1688	4.3252
1.8750	0.2726	3.1860	4.3259	1.4208	17.4947	5.7460
2.0000	0.2500	2.8634	3.9792	1.3069	21.4739	7.0530
2.1250	0.2293	2.5660	11.1300	3.6556	32.6039	10.7085
2.2500	0.2102	2.2927	15.7357	5.1683	48.3395	15.8768
2.3750	0.1928	2.0423	36.0928	11.8544	84.4323	27.7312
2.5000	0.1768	1.8137	80.5731	26.4637	165.0054	54.1950
2.6250	0.1621	1.6058	68.6132	22.5356	233.6186	76.7305
2.7500	0.1487	1.4175	39.7419	13.0530	273.3605	89.7835
2.8750	0.1363	1.2476	16.5997	5.4520	289.9602	95.2355
3.0000	0.1250	1.0949	6.5672	2.1570	296.5274	97.3925
3.1250	0.1146	0.9582	1.8589	0.6105	298.3863	98.0030
3.2500	0.1051	0.8364	4.6614	1.5310	303.0477	99.5340
3.3750	0.0964	0.7282	0.3623	0.1190	303.4099	99.6530
3.5000	0.0884	0.6326	0.0000	0.0000	303.4099	99.6530
3.6250	0.0811	0.5484	1.0564	0.3470	304.4664	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	304.4664	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	304.4664	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	304.4664	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	304.4664	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	304.4664	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	304.4664	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	304.4664	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C45\_S8

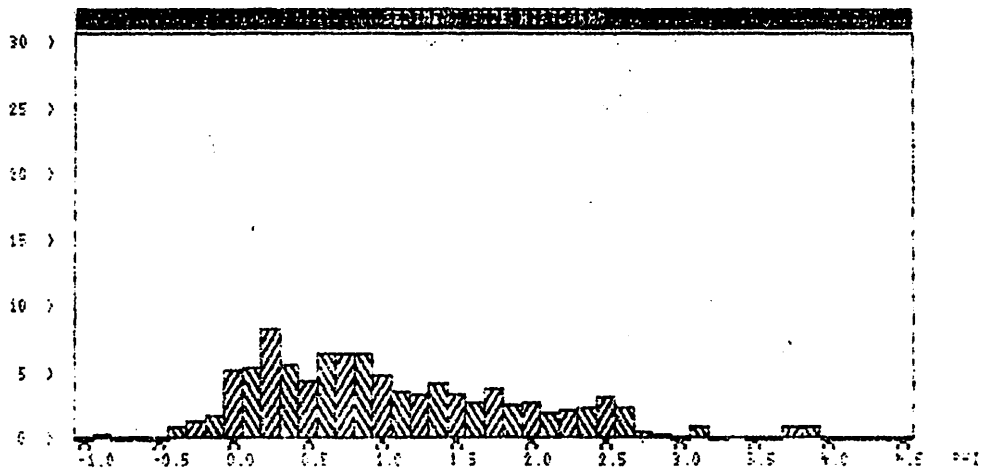
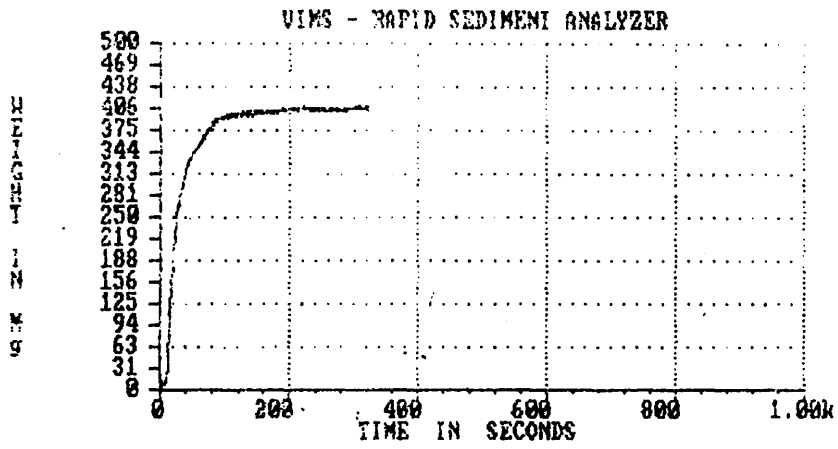
CORE 45 S-8 3.50-3.72M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
656.1959 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws/0.913  
1.0146 0.9029 0.7429 3.1429 M1 M2 M3 M4 (phi)  
0.9878 0.8216 0.8716 0.2842 0.7251 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2470	0.3096	1.2470	0.3096
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2470	0.3096
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2470	0.3096
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2470	0.3096
-0.3750	1.2968	14.5884	4.2504	1.0554	5.4974	1.3650
-0.2500	1.1892	13.6217	5.6429	1.4011	11.1402	2.7661
-0.1250	1.0905	12.6995	7.1538	1.7763	18.2940	4.5423
0.0000	1.0000	11.8208	20.7209	5.1449	39.0149	9.6873
0.1250	0.9170	10.9848	21.7980	5.4124	60.8129	15.0996
0.2500	0.8409	10.1905	33.1276	8.2255	93.9405	23.3251
0.3750	0.7711	9.4370	23.0147	5.7145	116.9552	29.0396
0.5000	0.7071	8.7233	18.1086	4.4963	135.0638	33.5359
0.6250	0.6484	8.0484	25.6571	6.3706	160.7209	39.9064
0.7500	0.5946	7.4111	25.6998	6.3812	186.4207	46.2876
0.8750	0.5453	6.8104	26.1099	6.4830	212.5307	52.7706
1.0000	0.5000	6.2452	19.7365	4.9005	232.2672	57.6712
1.1250	0.4585	5.7143	14.2879	3.5476	246.5552	61.2188
1.2500	0.4204	5.2167	13.5761	3.3709	260.1312	64.5897
1.3750	0.3856	4.7510	16.9636	4.2120	277.0948	68.8017
1.5000	0.3536	4.3163	13.4360	3.3361	290.5308	72.1378
1.6250	0.3242	3.9113	10.9240	2.7124	301.4549	74.8502
1.7500	0.2973	3.5349	15.3234	3.8047	316.7782	78.6550
1.8750	0.2726	3.1860	10.2981	2.5570	327.0764	81.2119
2.0000	0.2500	2.8634	11.0216	2.7366	338.0980	83.9486
2.1250	0.2293	2.5660	8.1232	2.0170	346.2211	85.9655
2.2500	0.2102	2.2927	8.8437	2.1959	355.0649	88.1614
2.3750	0.1928	2.0423	9.8773	2.4525	364.9422	90.6139
2.5000	0.1768	1.8137	13.0376	3.2372	377.9798	93.8511
2.6250	0.1621	1.6058	9.3020	2.3097	387.2818	96.1608
2.7500	0.1487	1.4175	2.3563	0.5851	389.6382	96.7458
2.8750	0.1363	1.2476	1.7767	0.4412	391.4149	97.1870
3.0000	0.1250	1.0949	0.0000	0.0000	391.4149	97.1870
3.1250	0.1146	0.9582	3.6766	0.9129	395.0915	98.0999
3.2500	0.1051	0.8364	0.0000	0.0000	395.0915	98.0999
3.3750	0.0964	0.7282	0.3251	0.0807	395.4166	98.1806
3.5000	0.0884	0.6326	0.0000	0.0000	395.4166	98.1806
3.6250	0.0811	0.5484	0.0000	0.0000	395.4166	98.1806
3.7500	0.0743	0.4744	3.5880	0.8909	399.0046	99.0715
3.8750	0.0682	0.4098	3.7395	0.9285	402.7442	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	402.7442	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	402.7442	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	402.7442	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	402.7442	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	402.7442	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C45\_S7

CORE 45 S-7 2.90-3.5M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
489.6985 Dry Sand Fraction Weight (mg)

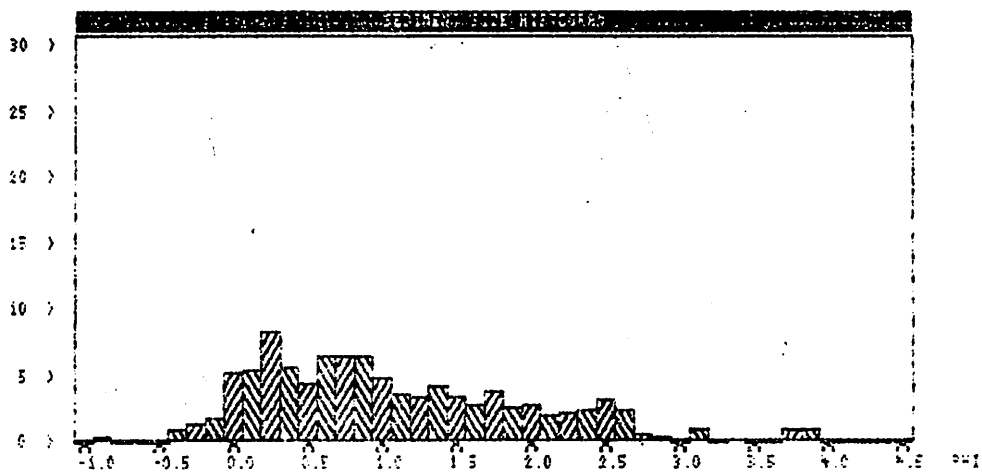
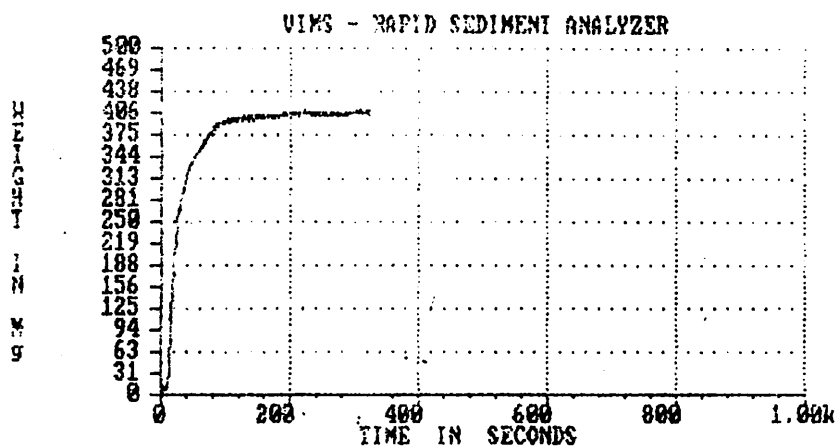
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n^{*0.913}$

2.4269 0.4271 -3.1158 18.6770 M1 M2 M3 M4 (phi)

2.4754 2.4802 0.2715 -0.1490 0.2627 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	3.1874	1.0469	3.1874	1.0469
0.0000	1.0000	11.8208	0.0000	0.0000	3.1874	1.0469
0.1250	0.9170	10.9848	0.0000	0.0000	3.1874	1.0469
0.2500	0.8409	10.1905	0.0000	0.0000	3.1874	1.0469
0.3750	0.7711	9.4370	0.6047	0.1986	3.7921	1.2455
0.5000	0.7071	8.7233	0.3615	0.1187	4.1536	1.3642
0.6250	0.6484	8.0484	0.0000	0.0000	4.1536	1.3642
0.7500	0.5946	7.4111	0.0000	0.0000	4.1536	1.3642
0.8750	0.5453	6.8104	0.0000	0.0000	4.1536	1.3642
1.0000	0.5000	6.2452	2.0858	0.6851	6.2394	2.0493
1.1250	0.4585	5.7143	0.1388	0.0456	6.3782	2.0949
1.2500	0.4204	5.2167	0.0000	0.0000	6.3782	2.0949
1.3750	0.3856	4.7510	1.3162	0.4323	7.6944	2.5272
1.5000	0.3536	4.3163	3.2859	1.0792	10.9803	3.6064
1.6250	0.3242	3.9113	0.0000	0.0000	10.9803	3.6064
1.7500	0.2973	3.5349	2.1885	0.7188	13.1688	4.3252
1.8750	0.2726	3.1860	4.3259	1.4208	17.4947	5.7460
2.0000	0.2500	2.8634	3.9792	1.3069	21.4739	7.0530
2.1250	0.2293	2.5660	11.1300	3.6556	32.6039	10.7085
2.2500	0.2102	2.2927	15.7357	5.1683	48.3395	15.8768
2.3750	0.1928	2.0423	36.0928	11.8544	84.4323	27.7312
2.5000	0.1768	1.8137	80.5731	26.4637	165.0054	54.1950
2.6250	0.1621	1.6058	68.6132	22.5356	233.6186	76.7305
2.7500	0.1487	1.4175	39.7419	13.0530	273.3605	89.7835
2.8750	0.1363	1.2476	16.5997	5.4520	289.9602	95.2355
3.0000	0.1250	1.0949	6.5672	2.1570	296.5274	97.3925
3.1250	0.1146	0.9582	1.8589	0.6105	298.3863	98.0030
3.2500	0.1051	0.8364	4.6614	1.5310	303.0477	99.5340
3.3750	0.0964	0.7282	0.3623	0.1190	303.4099	99.6530
3.5000	0.0884	0.6326	0.0000	0.0000	303.4099	99.6530
3.6250	0.0811	0.5484	1.0564	0.3470	304.4664	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	304.4664	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	304.4664	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	304.4664	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	304.4664	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	304.4664	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	304.4664	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	304.4664	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C45\_S9

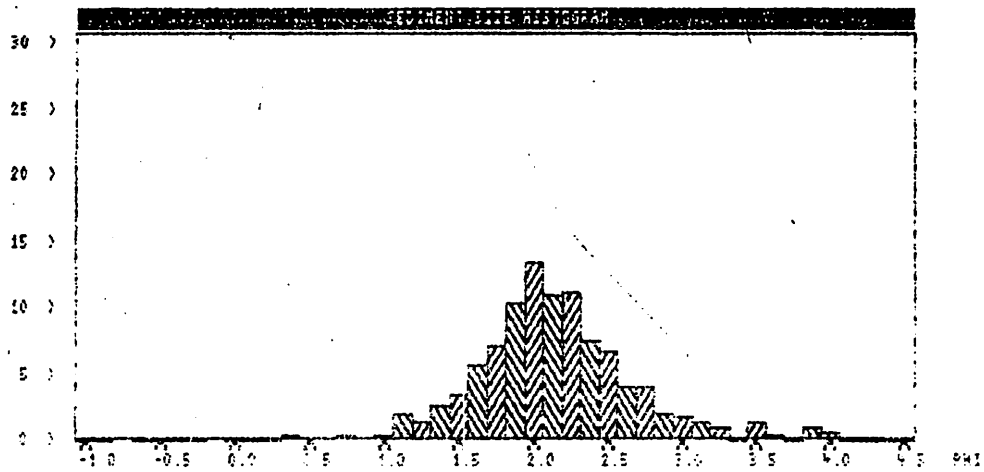
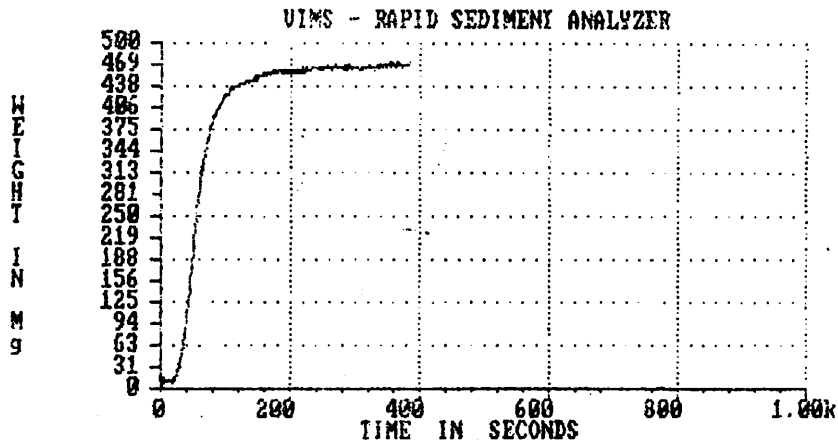
CORE 45 S-9 3.72-4.73M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
755.7027 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$   
2.0656 0.5489 0.2445 5.0767 M1 M2 M3 M4 (phi)  
2.0537 2.0298 0.4994 0.0902 0.4494 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.3568	0.0770	0.3568	0.0770
-0.6250	1.5422	16.6582	0.0000	0.0000	0.3568	0.0770
-0.5000	1.4142	15.6003	0.0000	0.0000	0.3568	0.0770
-0.3750	1.2968	14.5884	0.0000	0.0000	0.3568	0.0770
-0.2500	1.1892	13.6217	0.0000	0.0000	0.3568	0.0770
-0.1250	1.0905	12.6995	0.4176	0.0901	0.7745	0.1671
0.0000	1.0000	11.8208	0.0000	0.0000	0.7745	0.1671
0.1250	0.9170	10.9848	0.0000	0.0000	0.7745	0.1671
0.2500	0.8409	10.1905	0.0000	0.0000	0.7745	0.1671
0.3750	0.7711	9.4370	1.9109	0.4123	2.6854	0.5795
0.5000	0.7071	8.7233	0.9629	0.2078	3.6483	0.7872
0.6250	0.6484	8.0484	0.4800	0.1036	4.1283	0.8908
0.7500	0.5946	7.4111	2.0003	0.4316	6.1286	1.3224
0.8750	0.5453	6.8104	0.8054	0.1738	6.9340	1.4962
1.0000	0.5000	6.2452	1.4612	0.3153	8.3952	1.8115
1.1250	0.4585	5.7143	9.2956	2.0058	17.6908	3.8173
1.2500	0.4204	5.2167	6.5235	1.4076	24.2142	5.2250
1.3750	0.3856	4.7510	11.7870	2.5434	36.0013	7.7684
1.5000	0.3536	4.3163	15.8077	3.4110	51.8090	11.1794
1.6250	0.3242	3.9113	26.1342	5.6392	77.9431	16.8186
1.7500	0.2973	3.5349	32.8826	7.0954	110.8258	23.9140
1.8750	0.2726	3.1860	47.2386	10.1932	158.0644	34.1072
2.0000	0.2500	2.8634	61.7612	13.3269	219.8255	47.4341
2.1250	0.2293	2.5660	49.9173	10.7712	269.7428	58.2053
2.2500	0.2102	2.2927	51.1714	11.0418	320.9142	69.2471
2.3750	0.1928	2.0423	34.1131	7.3609	355.0273	76.6080
2.5000	0.1768	1.8137	30.5820	6.5990	385.6093	83.2070
2.6250	0.1621	1.6058	18.8563	4.0688	404.4656	87.2758
2.7500	0.1487	1.4175	18.1440	3.9151	422.6096	91.1910
2.8750	0.1363	1.2476	9.3103	2.0090	431.9199	93.1999
3.0000	0.1250	1.0949	7.7735	1.6774	439.6933	94.8773
3.1250	0.1146	0.9582	5.9680	1.2878	445.6614	96.1651
3.2500	0.1051	0.8364	4.1178	0.8885	449.7791	97.0536
3.3750	0.0964	0.7282	0.0000	0.0000	449.7791	97.0536
3.5000	0.0884	0.6326	6.1281	1.3223	455.9073	98.3759
3.6250	0.0811	0.5484	1.2524	0.2702	457.1597	98.6462
3.7500	0.0743	0.4744	0.0000	0.0000	457.1597	98.6462
3.8750	0.0682	0.4098	4.0742	0.8791	461.2339	99.5253
4.0000	0.0625	0.3533	2.1998	0.4747	463.4337	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	463.4337	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	463.4337	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	463.4337	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

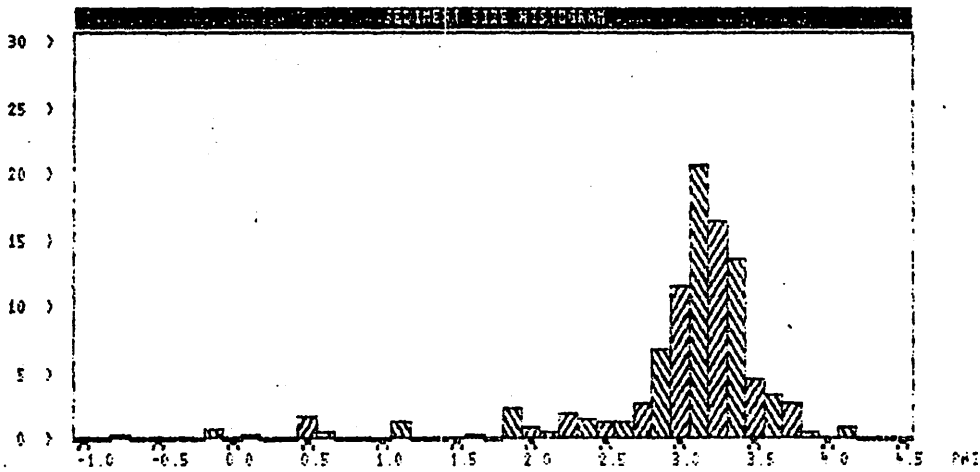
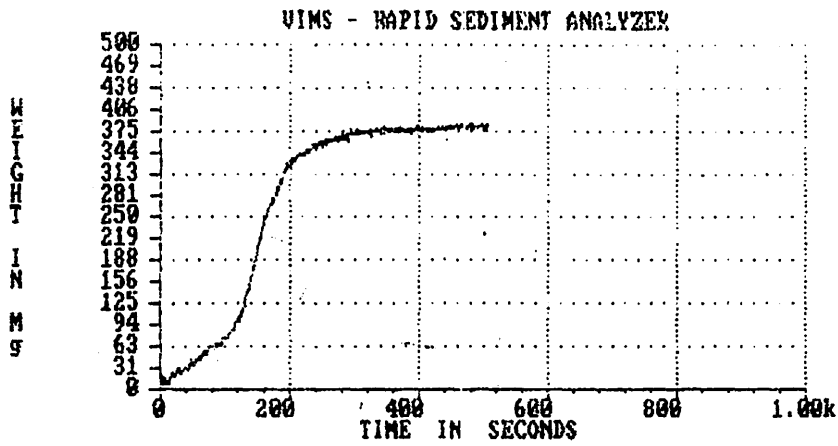


C46\_S1  
 CORE 46 S1 0-0.76M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 613.1025 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 2.9044 0.7196 -2.4737 10.0849 M1 M2 M3 M4 (phi)  
 3.0161 3.0793 0.5582 -0.4217 0.4917 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.2672	0.3357	1.2672	0.3357
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2672	0.3357
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2672	0.3357
-0.3750	1.2968	14.5884	0.0000	0.0000	1.2672	0.3357
-0.2500	1.1892	13.6217	0.0000	0.0000	1.2672	0.3357
-0.1250	1.0905	12.6995	2.6741	0.7085	3.9413	1.0442
0.0000	1.0000	11.8208	0.0000	0.0000	3.9413	1.0442
0.1250	0.9170	10.9848	1.6044	0.4251	5.5457	1.4692
0.2500	0.8409	10.1905	0.0566	0.0150	5.6023	1.4842
0.3750	0.7711	9.4370	0.0000	0.0000	5.6023	1.4842
0.5000	0.7071	8.7233	6.8606	1.8176	12.4628	3.3018
0.6250	0.6484	8.0484	2.3617	0.6257	14.8246	3.9275
0.7500	0.5946	7.4111	0.0000	0.0000	14.8246	3.9275
0.8750	0.5453	6.8104	0.0000	0.0000	14.8246	3.9275
1.0000	0.5000	6.2452	0.0000	0.0000	14.8246	3.9275
1.1250	0.4585	5.7143	4.8432	1.2831	19.6678	5.2107
1.2500	0.4204	5.2167	0.0000	0.0000	19.6678	5.2107
1.3750	0.3856	4.7510	0.0000	0.0000	19.6678	5.2107
1.5000	0.3536	4.3163	0.8051	0.2133	20.4728	5.4240
1.6250	0.3242	3.9113	1.0903	0.2889	21.5631	5.7128
1.7500	0.2973	3.5349	0.0000	0.0000	21.5631	5.7128
1.8750	0.2726	3.1860	9.3093	2.4663	30.8724	8.1792
2.0000	0.2500	2.8634	3.5404	0.9380	34.4129	9.1172
2.1250	0.2293	2.5660	2.2593	0.5986	36.6721	9.7157
2.2500	0.2102	2.2927	7.8271	2.0737	44.4992	11.7894
2.3750	0.1928	2.0423	5.9812	1.5846	50.4804	13.3740
2.5000	0.1768	1.8137	4.9164	1.3025	55.3968	14.6765
2.6250	0.1621	1.6058	4.8936	1.2965	60.2904	15.9730
2.7500	0.1487	1.4175	10.3952	2.7540	70.6856	18.7271
2.8750	0.1363	1.2476	25.5458	6.7680	96.2314	25.4950
3.0000	0.1250	1.0949	43.1202	11.4240	139.3516	36.9190
3.1250	0.1146	0.9582	77.8499	20.6251	217.2015	57.5442
3.2500	0.1051	0.8364	61.8580	16.3883	279.0595	73.9325
3.3750	0.0964	0.7282	51.2174	13.5693	330.2770	87.5018
3.5000	0.0884	0.6326	17.4206	4.6153	347.6976	92.1171
3.6250	0.0811	0.5484	12.8053	3.3926	360.5029	95.5097
3.7500	0.0743	0.4744	10.5955	2.8071	371.0985	98.3168
3.8750	0.0682	0.4098	2.1765	0.5766	373.2750	98.8934
4.0000	0.0625	0.3533	0.5497	0.1456	373.8247	99.0391
4.1250	0.0573	0.3043	3.6270	0.9609	377.4517	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	377.4517	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	377.4517	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	377.4517	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

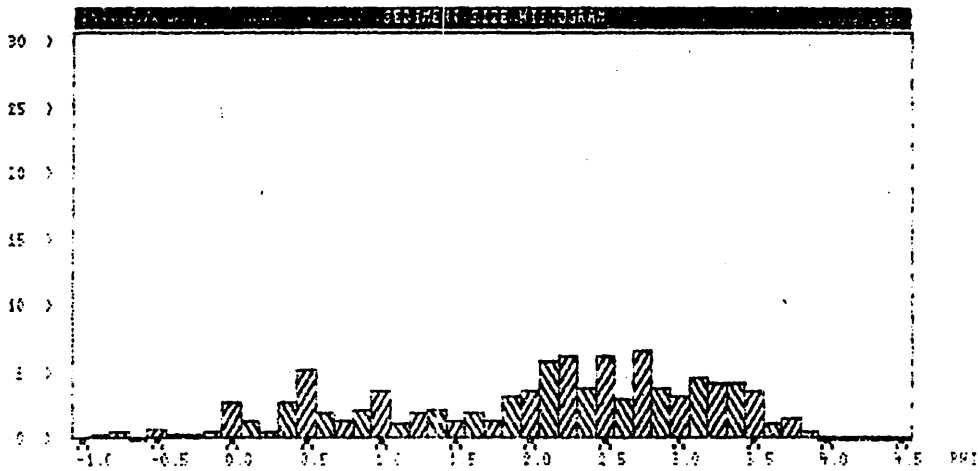
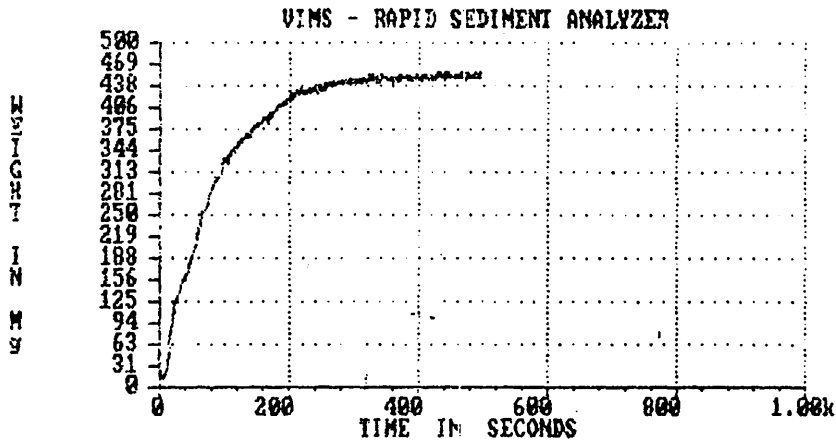


C46\_S2  
 CORE 46 S2 0.76-0.95M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 722.0114 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
 1.9581 1.1114 -0.5224 2.3200 M1 M2 M3 M4 (phi)  
 1.9333 2.1774 1.1755 -0.2772 0.5968 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.9673	0.2212	0.9673	0.2212
-0.8750	1.8340	18.9156	1.3650	0.3122	2.3324	0.5334
-0.7500	1.6818	17.7631	2.0933	0.4787	4.4257	1.0121
-0.6250	1.5422	16.6582	0.0000	0.0000	4.4257	1.0121
-0.5000	1.4142	15.6003	3.0390	0.6950	7.4647	1.7070
-0.3750	1.2968	14.5884	1.3584	0.3106	8.8231	2.0177
-0.2500	1.1892	13.6217	1.7679	0.4043	10.5910	2.4220
-0.1250	1.0905	12.6995	2.4855	0.5684	13.0765	2.9903
0.0000	1.0000	11.8208	12.5389	2.8674	25.6154	5.8577
0.1250	0.9170	10.9848	6.0467	1.3828	31.6621	7.2405
0.2500	0.8409	10.1905	2.5149	0.5751	34.1770	7.8156
0.3750	0.7711	9.4370	11.8354	2.7065	46.0124	10.5221
0.5000	0.7071	8.7233	22.8388	5.2228	68.8512	15.7449
0.6250	0.6484	8.0484	8.8607	2.0263	77.7119	17.7711
0.7500	0.5946	7.4111	5.9633	1.3637	83.6752	19.1348
0.8750	0.5453	6.8104	9.1194	2.0854	92.7946	21.2202
1.0000	0.5000	6.2452	15.7061	3.5917	108.5007	24.8119
1.1250	0.4585	5.7143	5.2003	1.1892	113.7010	26.0011
1.2500	0.4204	5.2167	8.2241	1.8807	121.9251	27.8818
1.3750	0.3856	4.7510	9.4050	2.1507	131.3300	30.0325
1.5000	0.3536	4.3163	5.6675	1.2960	136.9975	31.3286
1.6250	0.3242	3.9113	8.6339	1.9744	145.6314	33.3030
1.7500	0.2973	3.5349	5.8560	1.3392	151.4874	34.6421
1.8750	0.2726	3.1860	13.6556	3.1228	165.1431	37.7649
2.0000	0.2500	2.8634	16.1518	3.6936	181.2949	41.4585
2.1250	0.2293	2.5660	25.7840	5.8963	207.0789	47.3547
2.2500	0.2102	2.2927	27.6091	6.3136	234.6879	53.6684
2.3750	0.1928	2.0423	16.4431	3.7602	251.1311	57.4286
2.5000	0.1768	1.8137	26.9104	6.1539	278.0415	63.5824
2.6250	0.1621	1.6058	12.7413	2.9137	290.7828	66.4961
2.7500	0.1487	1.4175	29.1382	6.6633	319.9210	73.1594
2.8750	0.1363	1.2476	16.8736	3.8586	336.7945	77.0181
3.0000	0.1250	1.0949	13.5818	3.1059	350.3763	80.1239
3.1250	0.1146	0.9582	19.8392	4.5368	370.2155	84.6608
3.2500	0.1051	0.8364	18.1548	4.1516	388.3703	88.8124
3.3750	0.0964	0.7282	18.0661	4.1314	406.4364	92.9438
3.5000	0.0884	0.6326	15.9226	3.6412	422.3590	96.5849
3.6250	0.0811	0.5484	5.2583	1.2025	427.6173	97.7874
3.7500	0.0743	0.4744	7.3066	1.6709	434.9239	99.4583
3.8750	0.0682	0.4098	2.2151	0.5066	437.1390	99.9648
4.0000	0.0625	0.3533	0.1538	0.0352	437.2929	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	437.2929	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	437.2929	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	437.2929	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	437.2929	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C46\_S4

CORE 46 S4 1.32-1.55M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

566.0914 Dry Sand Fraction Weight (mg)

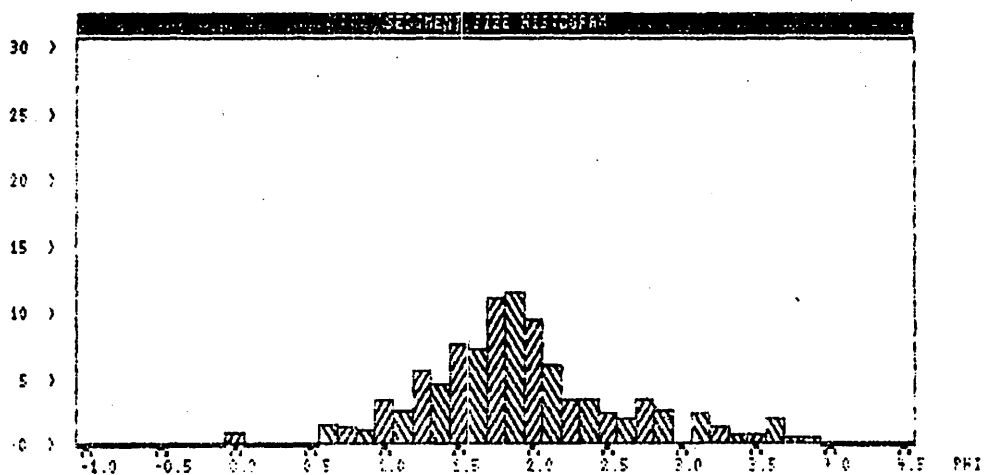
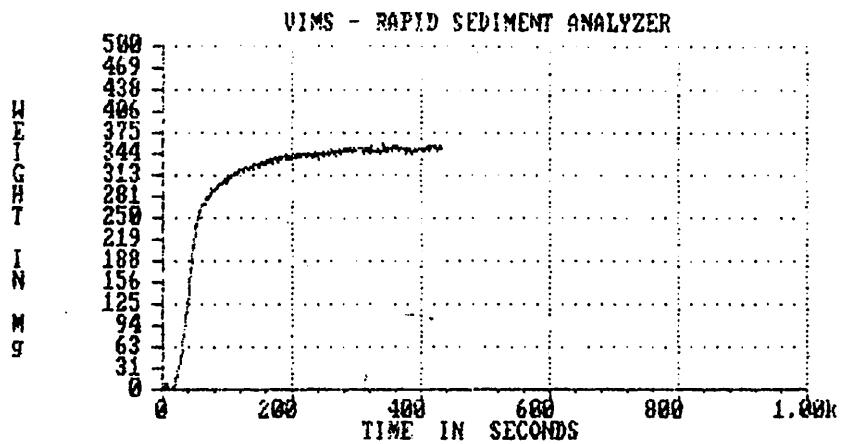
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$

1.8503 0.6905 0.4974 3.5963 M1 M2 M3 M4 (phi)

1.8447 1.7777 0.6835 0.1866 0.6200 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	0.0000	0.0000	0.0000	0.0000
0.0000	1.0000	11.8208	3.4008	0.9515	3.4008	0.9515
0.1250	0.9170	10.9848	0.0000	0.0000	3.4008	0.9515
0.2500	0.8409	10.1905	0.0000	0.0000	3.4008	0.9515
0.3750	0.7711	9.4370	0.0000	0.0000	3.4008	0.9515
0.5000	0.7071	8.7233	0.0000	0.0000	3.4008	0.9515
0.6250	0.6484	8.0484	5.8519	1.6372	9.2527	2.5887
0.7500	0.5946	7.4111	5.0231	1.4053	14.2759	3.9940
0.8750	0.5453	6.8104	4.3667	1.2217	18.6426	5.2157
1.0000	0.5000	6.2452	12.3859	3.4652	31.0285	8.6809
1.1250	0.4585	5.7143	9.5170	2.6626	40.5455	11.3435
1.2500	0.4204	5.2167	20.1172	5.6282	60.6627	16.9718
1.3750	0.3856	4.7510	16.2655	4.5506	76.9282	21.5224
1.5000	0.3536	4.3163	27.1501	7.5958	104.0783	29.1183
1.6250	0.3242	3.9113	26.0530	7.2889	130.1313	36.4072
1.7500	0.2973	3.5349	39.5119	11.0544	169.6432	47.4615
1.8750	0.2726	3.1860	40.9354	11.4526	210.5786	58.9141
2.0000	0.2500	2.8634	33.6219	9.4065	244.2005	68.3206
2.1250	0.2293	2.5660	21.3395	5.9702	265.5400	74.2908
2.2500	0.2102	2.2927	12.0860	3.3813	277.6260	77.6721
2.3750	0.1928	2.0423	12.3047	3.4425	289.9307	81.1146
2.5000	0.1768	1.8137	8.7883	2.4587	298.7190	83.5734
2.6250	0.1621	1.6058	6.7900	1.8996	305.5090	85.4730
2.7500	0.1487	1.4175	12.2093	3.4158	317.7183	88.8888
2.8750	0.1363	1.2476	9.3030	2.6027	327.0212	91.4916
3.0000	0.1250	1.0949	0.2179	0.0610	327.2391	91.5525
3.1250	0.1146	0.9582	8.5963	2.4050	335.8354	93.9575
3.2500	0.1051	0.8364	4.9385	1.3817	340.7739	95.3392
3.3750	0.0964	0.7282	2.4409	0.6829	343.2149	96.0221
3.5000	0.0884	0.6326	3.0415	0.8509	346.2563	96.8730
3.6250	0.0811	0.5484	6.9115	1.9336	353.1678	98.8067
3.7500	0.0743	0.4744	2.1621	0.6049	355.3300	99.4116
3.8750	0.0682	0.4098	2.1033	0.5884	357.4332	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	357.4332	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	357.4332	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	357.4332	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	357.4332	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	357.4332	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



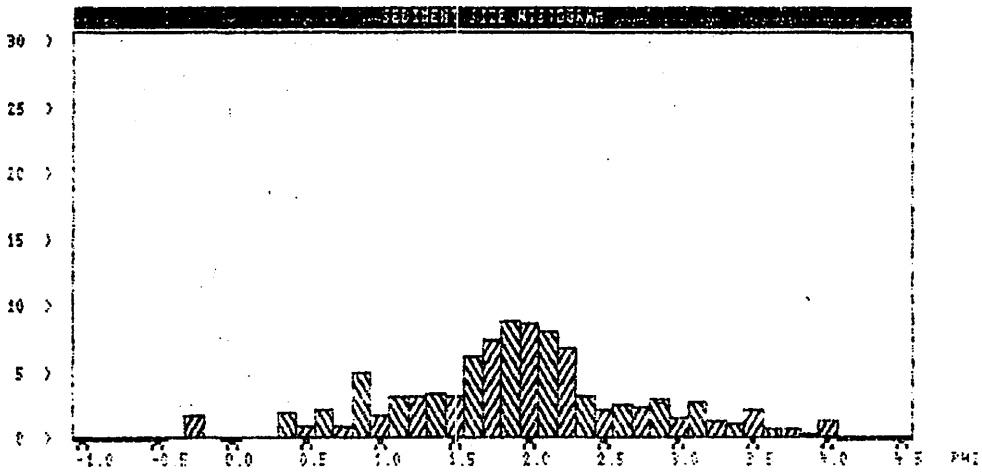
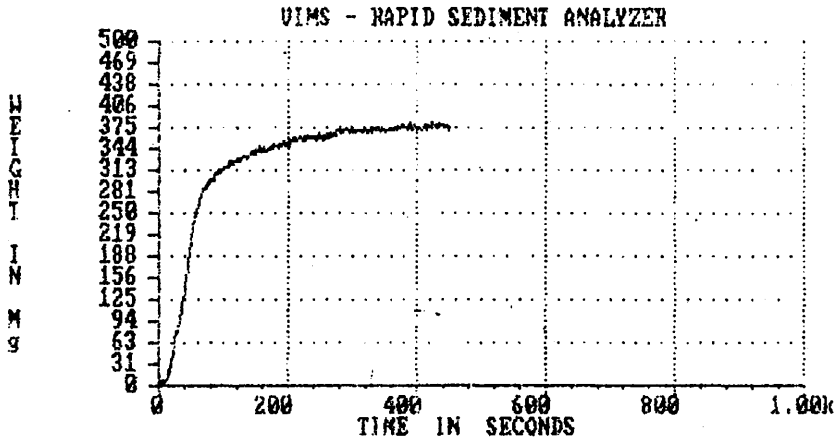


C46\_S5  
 CORE 46 S5 1.55-1.89M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 602.1332 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $W_n = 0.977W_s^{0.913}$   
 1.8644 0.8509 -0.0078 3.1946 M1 M2 M3 M4 (phi)  
 1.8725 1.8653 0.8722 0.0270 0.7042 Mz, Md, SI, SKI, KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.8818	0.2341	0.8818	0.2341
-0.2500	1.1892	13.6217	6.9242	1.8379	7.8059	2.0719
-0.1250	1.0905	12.6995	0.5015	0.1331	8.3074	2.2051
0.0000	1.0000	11.8208	0.0000	0.0000	8.3074	2.2051
0.1250	0.9170	10.9848	0.9044	0.2401	9.2119	2.4451
0.2500	0.8409	10.1905	0.4680	0.1242	9.6799	2.5694
0.3750	0.7711	9.4370	7.1763	1.9048	16.8563	4.4742
0.5000	0.7071	8.7233	3.3806	0.8973	20.2368	5.3715
0.6250	0.6484	8.0484	7.9408	2.1077	28.1776	7.4792
0.7500	0.5946	7.4111	3.9132	1.0387	32.0908	8.5179
0.8750	0.5453	6.8104	18.5377	4.9205	50.6285	13.4384
1.0000	0.5000	6.2452	7.0595	1.8738	57.6880	15.3122
1.1250	0.4585	5.7143	11.7977	3.1315	69.4857	18.4437
1.2500	0.4204	5.2167	12.1945	3.2368	81.6802	21.6805
1.3750	0.3856	4.7510	12.5461	3.3301	94.2263	25.0107
1.5000	0.3536	4.3163	12.3615	3.2811	106.5878	28.2918
1.6250	0.3242	3.9113	23.1100	6.1341	129.6978	34.4259
1.7500	0.2973	3.5349	27.9462	7.4178	157.6440	41.8438
1.8750	0.2726	3.1860	33.3152	8.8429	190.9593	50.6867
2.0000	0.2500	2.8634	32.2526	8.5609	223.2119	59.2476
2.1250	0.2293	2.5660	30.4411	8.0800	253.6529	67.3276
2.2500	0.2102	2.2927	25.5565	6.7835	279.2095	74.1111
2.3750	0.1928	2.0423	12.3795	3.2859	291.5889	77.3970
2.5000	0.1768	1.8137	8.5283	2.2637	300.1172	79.6607
2.6250	0.1621	1.6058	9.3715	2.4875	309.4887	82.1482
2.7500	0.1487	1.4175	8.7497	2.3224	318.2384	84.4706
2.8750	0.1363	1.2476	11.3693	3.0178	329.6076	87.4884
3.0000	0.1250	1.0949	5.9168	1.5705	335.5244	89.0589
3.1250	0.1146	0.9582	10.8371	2.8765	346.3615	91.9354
3.2500	0.1051	0.8364	5.4667	1.4510	351.8283	93.3865
3.3750	0.0964	0.7282	4.0676	1.0797	355.8958	94.4661
3.5000	0.0884	0.6326	8.5258	2.2630	364.4217	96.7292
3.6250	0.0811	0.5484	2.8737	0.7628	367.2954	97.4919
3.7500	0.0743	0.4744	2.7610	0.7329	370.0564	98.2248
3.8750	0.0682	0.4098	1.6387	0.4350	371.6951	98.6598
4.0000	0.0625	0.3533	5.0492	1.3402	376.7443	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	376.7443	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	376.7443	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	376.7443	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	376.7443	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C46\_S7

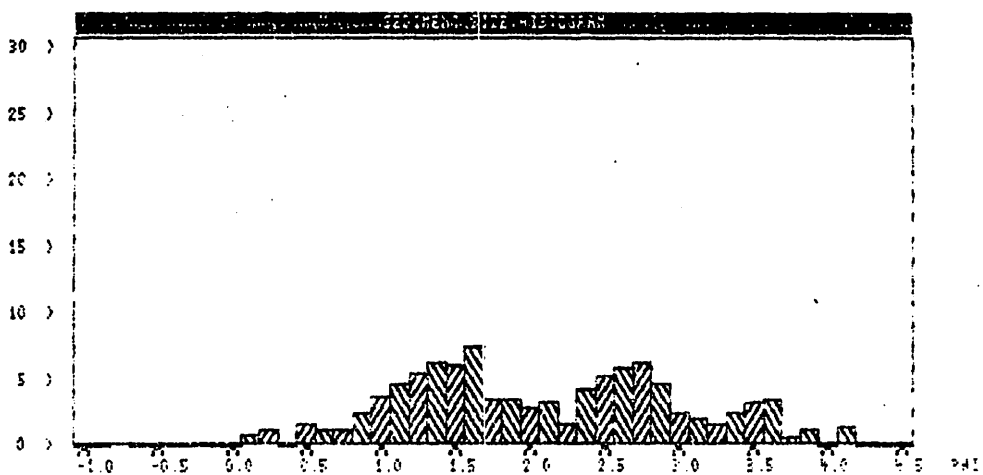
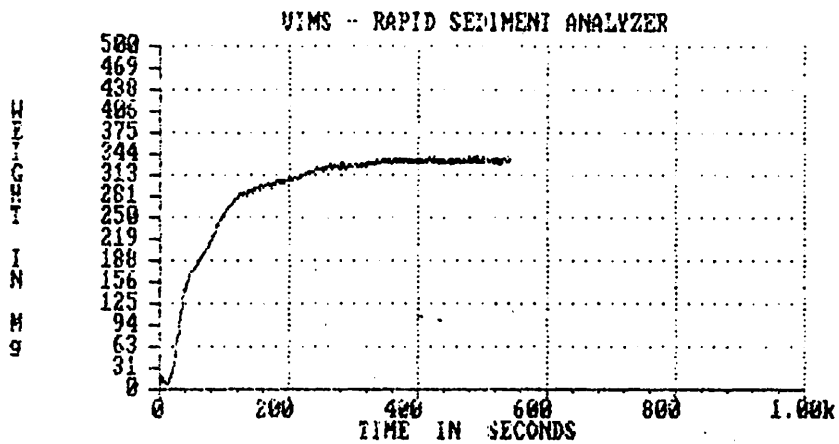
CORE 46 S7 3.10-4.62M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
541.0189 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$   
2.0249 0.9135 0.1332 2.2551 M1 M2 M3 M4 (phi)  
2.0074 1.9467 0.9055 0.1011 0.5504 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.2134	0.0644	0.2134	0.0644
-0.6250	1.5422	16.6582	0.0000	0.0000	0.2134	0.0644
-0.5000	1.4142	15.6003	0.0000	0.0000	0.2134	0.0644
-0.3750	1.2968	14.5884	0.0000	0.0000	0.2134	0.0644
-0.2500	1.1892	13.6217	0.0000	0.0000	0.2134	0.0644
-0.1250	1.0905	12.6995	0.0000	0.0000	0.2134	0.0644
0.0000	1.0000	11.8208	0.0000	0.0000	0.2134	0.0644
0.1250	0.9170	10.9848	2.6507	0.8004	2.8641	0.8649
0.2500	0.8409	10.1905	4.1390	1.2498	7.0030	2.1147
0.3750	0.7711	9.4370	0.0979	0.0296	7.1010	2.1443
0.5000	0.7071	8.7233	5.1963	1.5691	12.2972	3.7134
0.6250	0.6484	8.0484	3.5881	1.0835	15.8854	4.7969
0.7500	0.5946	7.4111	4.0703	1.2291	19.9556	6.0259
0.8750	0.5453	6.8104	8.1486	2.4606	28.1042	8.4865
1.0000	0.5000	6.2452	11.8298	3.5722	39.9340	12.0588
1.1250	0.4585	5.7143	15.2357	4.6007	55.1697	16.6594
1.2500	0.4204	5.2167	17.7454	5.3585	72.9151	22.0180
1.3750	0.3856	4.7510	20.6838	6.2458	93.5989	28.2638
1.5000	0.3536	4.3163	19.8173	5.9842	113.4162	34.2479
1.6250	0.3242	3.9113	24.8078	7.4911	138.2240	41.7391
1.7500	0.2973	3.5349	11.2497	3.3970	149.4737	45.1361
1.8750	0.2726	3.1860	10.9723	3.3133	160.4460	48.4494
2.0000	0.2500	2.8634	8.9484	2.7021	169.3944	51.1515
2.1250	0.2293	2.5660	10.5945	3.1992	179.9889	54.3507
2.2500	0.2102	2.2927	5.5042	1.6621	185.4930	56.0128
2.3750	0.1928	2.0423	14.0444	4.2409	199.5374	60.2537
2.5000	0.1768	1.8137	16.9720	5.1250	216.5094	65.3787
2.6250	0.1621	1.6058	19.5082	5.8908	236.0177	71.2696
2.7500	0.1487	1.4175	20.5558	6.2072	256.5735	77.4767
2.8750	0.1363	1.2476	15.4787	4.6740	272.0521	82.1508
3.0000	0.1250	1.0949	8.1860	2.4719	280.2381	84.6227
3.1250	0.1146	0.9582	6.3246	1.9098	286.5627	86.5325
3.2500	0.1051	0.8364	5.0316	1.5194	291.5943	88.0519
3.3750	0.0964	0.7282	8.0643	2.4352	299.6586	90.4870
3.5000	0.0884	0.6326	10.4687	3.1612	310.1273	93.6482
3.6250	0.0811	0.5484	10.9979	3.3210	321.1252	96.9692
3.7500	0.0743	0.4744	1.6163	0.4881	322.7415	97.4573
3.8750	0.0682	0.4098	3.6567	1.1042	326.3982	98.5615
4.0000	0.0625	0.3533	0.0000	0.0000	326.3982	98.5615
4.1250	0.0573	0.3043	4.7637	1.4385	331.1620	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	331.1620	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	331.1620	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	331.1620	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C46\_S9

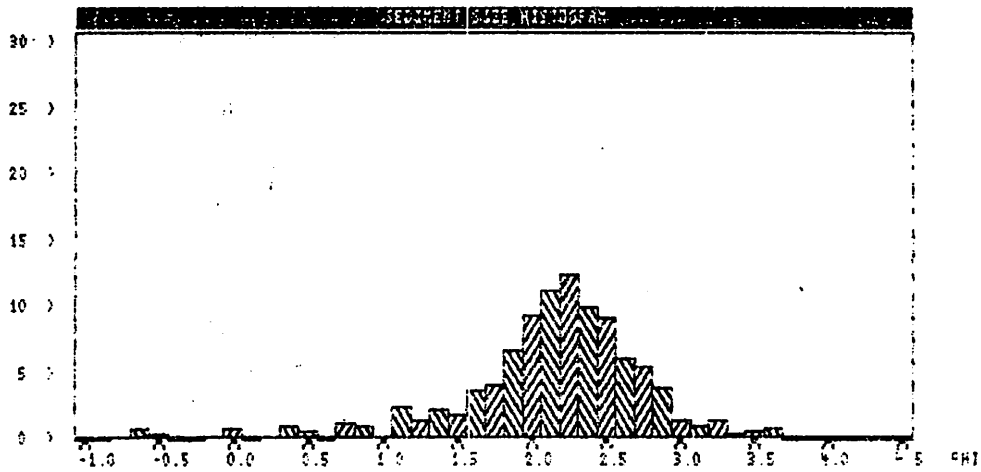
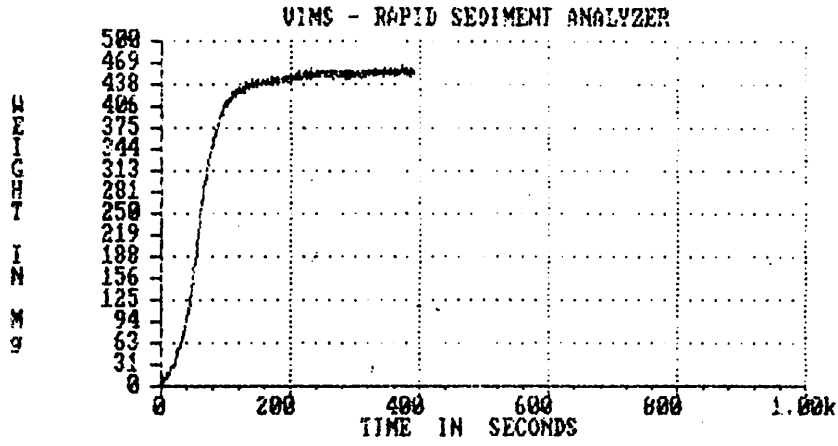
CORE 46 S9 4.84-5.48M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
726.7125 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws^0.913  
2.0587 0.6646 -1.2826 6.2839 M1 M2 M3 M4 (phi)  
2.1081 2.1446 0.5812 -0.1935 0.5226 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.4573	0.1033	0.4573	0.1033
-0.6250	1.5422	16.6582	3.1360	0.7081	3.5933	0.8113
-0.5000	1.4142	15.6003	1.2981	0.2931	4.8914	1.1044
-0.3750	1.2968	14.5884	0.0000	0.0000	4.8914	1.1044
-0.2500	1.1892	13.6217	0.0000	0.0000	4.8914	1.1044
-0.1250	1.0905	12.6995	0.9752	0.2202	5.8667	1.3246
0.0000	1.0000	11.8208	3.6820	0.8313	9.5487	2.1559
0.1250	0.9170	10.9848	0.0000	0.0000	9.5487	2.1559
0.2500	0.8409	10.1905	0.3761	0.0849	9.9247	2.2408
0.3750	0.7711	9.4370	4.3811	0.9892	14.3058	3.2300
0.5000	0.7071	8.7233	2.5076	0.5662	16.8134	3.7962
0.6250	0.6484	8.0484	0.0211	0.0048	16.8345	3.8010
0.7500	0.5946	7.4111	4.9071	1.1079	21.7416	4.9089
0.8750	0.5453	6.8104	3.8436	0.8678	25.5852	5.7767
1.0000	0.5000	6.2452	0.6557	0.1480	26.2409	5.9248
1.1250	0.4585	5.7143	10.9384	2.4697	37.1793	8.3945
1.2500	0.4204	5.2167	5.6539	1.2766	42.8333	9.6710
1.3750	0.3856	4.7510	9.7573	2.2030	52.5906	11.8741
1.5000	0.3536	4.3163	7.7960	1.7602	60.3866	13.6343
1.6250	0.3242	3.9113	16.0068	3.6141	76.3934	17.2484
1.7500	0.2973	3.5349	17.2806	3.9017	93.6740	21.1500
1.8750	0.2726	3.1860	28.9942	6.5464	122.6682	27.6964
2.0000	0.2500	2.8634	41.2512	9.3138	163.9194	37.0103
2.1250	0.2293	2.5660	48.9489	11.0519	212.8683	48.0621
2.2500	0.2102	2.2927	54.7368	12.3587	267.6051	60.4208
2.3750	0.1928	2.0423	43.4441	9.8090	311.0491	70.2297
2.5000	0.1768	1.8137	40.0836	9.0502	351.1328	79.2800
2.6250	0.1621	1.6058	26.6707	6.0218	377.8035	85.3018
2.7500	0.1487	1.4175	23.6133	5.3315	401.4168	90.6333
2.8750	0.1363	1.2476	16.9368	3.8241	418.3536	94.4573
3.0000	0.1250	1.0949	6.3047	1.4235	424.6584	95.8808
3.1250	0.1146	0.9582	3.9447	0.8907	428.6031	96.7715
3.2500	0.1051	0.8364	5.9501	1.3434	434.5532	98.1149
3.3750	0.0964	0.7282	1.9195	0.4334	436.4726	98.5483
3.5000	0.0884	0.6326	2.6751	0.6040	439.1477	99.1523
3.6250	0.0811	0.5484	3.7545	0.8477	442.9023	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	442.9023	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	442.9023	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	442.9023	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	442.9023	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	442.9023	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	442.9023	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	442.9023	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C46\_S10

CORE 46 S10 5.48-5.76M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

661.2888 Dry Sand Fraction Weight (mg)

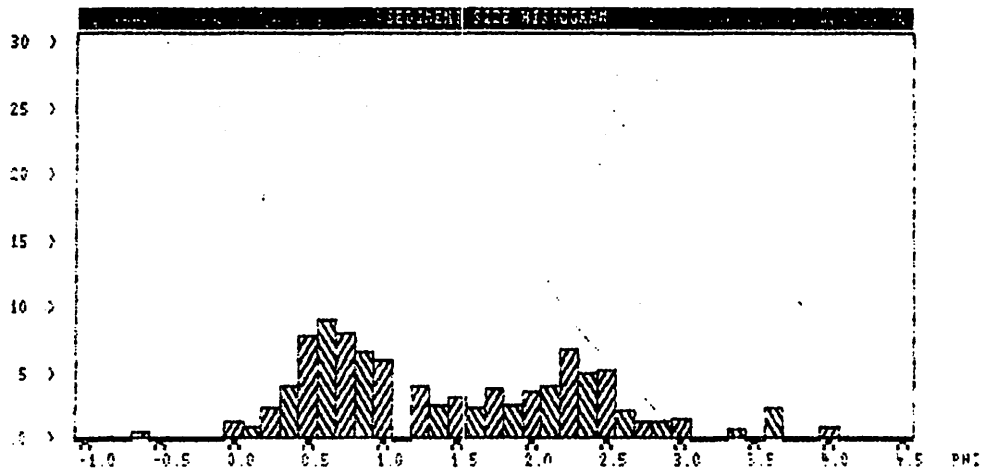
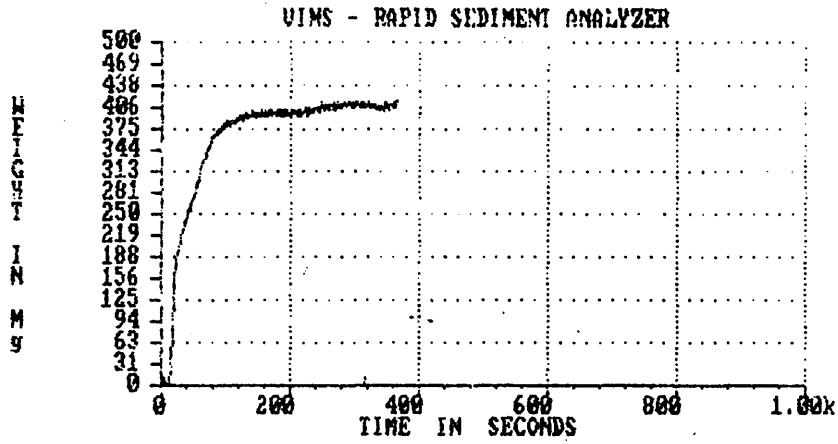
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$

1.3978 0.9234 0.4654 2.4516 M1 M2 M3 M4 (phi)

1.3605 1.2325 0.8774 0.2301 0.5733 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	2.2119	0.5344	2.2119	0.5344
-0.5000	1.4142	15.6003	0.0000	0.0000	2.2119	0.5344
-0.3750	1.2968	14.5884	0.0000	0.0000	2.2119	0.5344
-0.2500	1.1892	13.6217	0.0000	0.0000	2.2119	0.5344
-0.1250	1.0905	12.6995	0.0000	0.0000	2.2119	0.5344
0.0000	1.0000	11.8208	5.9201	1.4303	8.1320	1.9648
0.1250	0.9170	10.9848	4.2585	1.0289	12.3906	2.9936
0.2500	0.8409	10.1905	9.5303	2.3026	21.9209	5.2962
0.3750	0.7711	9.4370	16.5399	3.9961	38.4607	9.2924
0.5000	0.7071	8.7233	32.0583	7.7455	70.5190	17.0378
0.6250	0.6484	8.0484	37.2376	8.9968	107.7566	26.0347
0.7500	0.5946	7.4111	33.3782	8.0644	141.1348	34.0991
0.8750	0.5453	6.8104	27.2339	6.5799	168.3687	40.6790
1.0000	0.5000	6.2452	24.6316	5.9512	193.0003	46.6301
1.1250	0.4585	5.7143	0.0000	0.0000	193.0003	46.6301
1.2500	0.4204	5.2167	16.2203	3.9189	209.2207	50.5490
1.3750	0.3856	4.7510	10.5037	2.5378	219.7243	53.0868
1.5000	0.3536	4.3163	12.7983	3.0922	232.5227	56.1790
1.6250	0.3242	3.9113	10.2471	2.4758	242.7698	58.6547
1.7500	0.2973	3.5349	15.4181	3.7251	258.1879	62.3798
1.8750	0.2726	3.1860	10.5950	2.5598	268.7829	64.9397
2.0000	0.2500	2.8634	14.9456	3.6109	283.7285	68.5506
2.1250	0.2293	2.5660	16.6993	4.0347	300.4277	72.5853
2.2500	0.2102	2.2927	27.9835	6.7610	328.4112	79.3462
2.3750	0.1928	2.0423	20.7721	5.0187	349.1833	84.3649
2.5000	0.1768	1.8137	21.6710	5.2359	370.8543	89.6008
2.6250	0.1621	1.6058	8.8586	2.1403	379.7130	91.7411
2.7500	0.1487	1.4175	5.7451	1.3881	385.4581	93.1291
2.8750	0.1363	1.2476	5.5564	1.3425	391.0146	94.4716
3.0000	0.1250	1.0949	6.2586	1.5121	397.2732	95.9837
3.1250	0.1146	0.9582	0.0000	0.0000	397.2732	95.9837
3.2500	0.1051	0.8364	0.0000	0.0000	397.2732	95.9837
3.3750	0.0964	0.7282	3.2902	0.7949	400.5634	96.7787
3.5000	0.0884	0.6326	0.0000	0.0000	400.5634	96.7787
3.6250	0.0811	0.5484	9.6998	2.3435	410.2632	99.1222
3.7500	0.0743	0.4744	0.0000	0.0000	410.2632	99.1222
3.8750	0.0682	0.4098	0.0000	0.0000	410.2632	99.1222
4.0000	0.0625	0.3533	3.6332	0.8778	413.8964	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	413.8964	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	413.8964	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	413.8964	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	413.8964	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C46\_S11

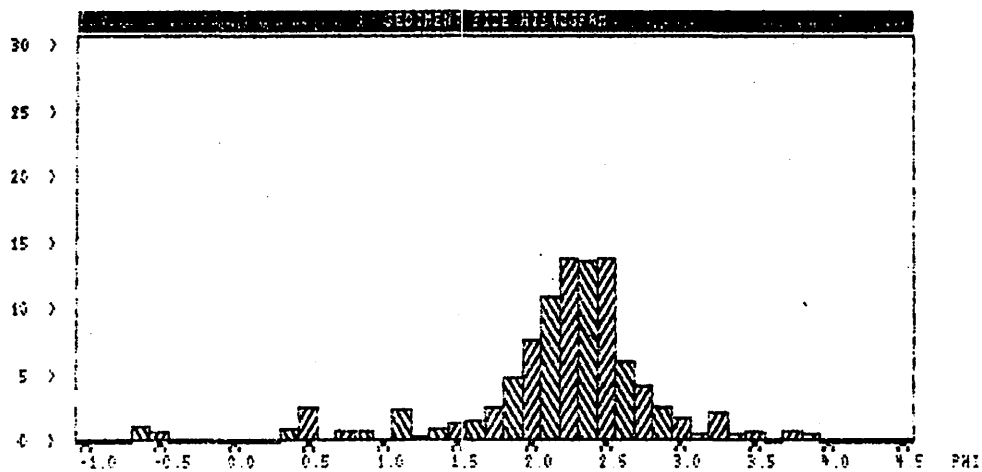
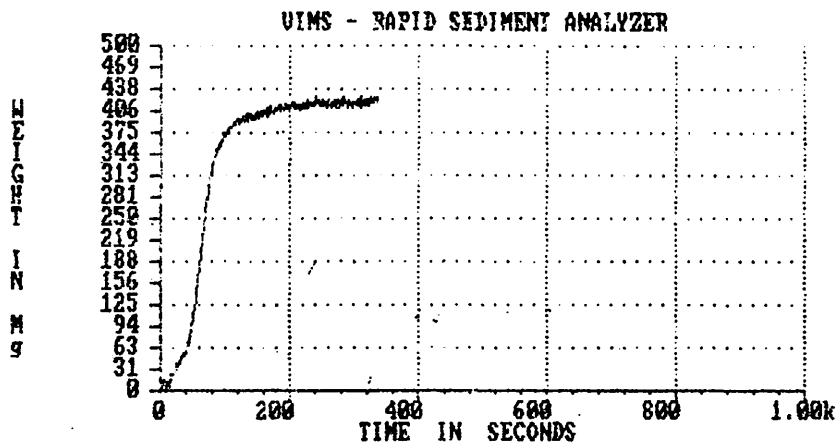
CORE 46 S11 5.76-6.12M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
673.0416 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n^{0.913}$   
2.1081 0.7027 -1.4700 6.7985 M1 M2 M3 M4 (phi)  
2.1786 2.2224 0.6028 -0.2557 0.6363 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	4.8548	1.1506	4.8548	1.1506
-0.5000	1.4142	15.6003	3.0029	0.7117	7.8577	1.8622
-0.3750	1.2968	14.5884	0.0000	0.0000	7.8577	1.8622
-0.2500	1.1892	13.6217	0.0000	0.0000	7.8577	1.8622
-0.1250	1.0905	12.6995	0.0000	0.0000	7.8577	1.8622
0.0000	1.0000	11.8208	0.0000	0.0000	7.8577	1.8622
0.1250	0.9170	10.9848	0.0000	0.0000	7.8577	1.8622
0.2500	0.8409	10.1905	0.0000	0.0000	7.8577	1.8622
0.3750	0.7711	9.4370	4.3527	1.0316	12.2104	2.8938
0.5000	0.7071	8.7233	11.0947	2.6294	23.3051	5.5232
0.6250	0.6484	8.0484	0.6502	0.1541	23.9553	5.6773
0.7500	0.5946	7.4111	3.3274	0.7886	27.2827	6.4659
0.8750	0.5453	6.8104	2.9355	0.6957	30.2182	7.1616
1.0000	0.5000	6.2452	0.7990	0.1894	31.0172	7.3510
1.1250	0.4585	5.7143	10.0576	2.3836	41.0748	9.7346
1.2500	0.4204	5.2167	1.1421	0.2707	42.2169	10.0052
1.3750	0.3856	4.7510	4.1500	0.9835	46.3669	10.9888
1.5000	0.3536	4.3163	5.7309	1.3582	52.0978	12.3470
1.6250	0.3242	3.9113	6.2901	1.4907	58.3879	13.8377
1.7500	0.2973	3.5349	10.7059	2.5373	69.0938	16.3749
1.8750	0.2726	3.1860	19.9088	4.7183	89.0027	21.0933
2.0000	0.2500	2.8634	31.8082	7.5384	120.8109	28.6317
2.1250	0.2293	2.5660	45.4786	10.7782	166.2894	39.4099
2.2500	0.2102	2.2927	57.3682	13.5960	223.6577	53.0059
2.3750	0.1928	2.0423	56.6872	13.4346	280.3448	66.4406
2.5000	0.1768	1.8137	57.5301	13.6344	337.8750	80.0750
2.6250	0.1621	1.6058	25.2432	5.9825	363.1182	86.0575
2.7500	0.1487	1.4175	18.1348	4.2979	381.2530	90.3554
2.8750	0.1363	1.2476	11.0852	2.6271	392.3382	92.9825
3.0000	0.1250	1.0949	7.4989	1.7772	399.8371	94.7598
3.1250	0.1146	0.9582	2.5292	0.5994	402.3663	95.3592
3.2500	0.1051	0.8364	9.3116	2.2068	411.6779	97.5660
3.3750	0.0964	0.7282	1.9998	0.4740	413.6778	98.0399
3.5000	0.0884	0.6326	3.3707	0.7989	417.0485	98.8388
3.6250	0.0811	0.5484	0.0000	0.0000	417.0485	98.8388
3.7500	0.0743	0.4744	2.8660	0.6792	419.9145	99.5180
3.8750	0.0682	0.4098	2.0338	0.4820	421.9483	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	421.9483	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	421.9483	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	421.9483	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	421.9483	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	421.9483	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C47\_S1

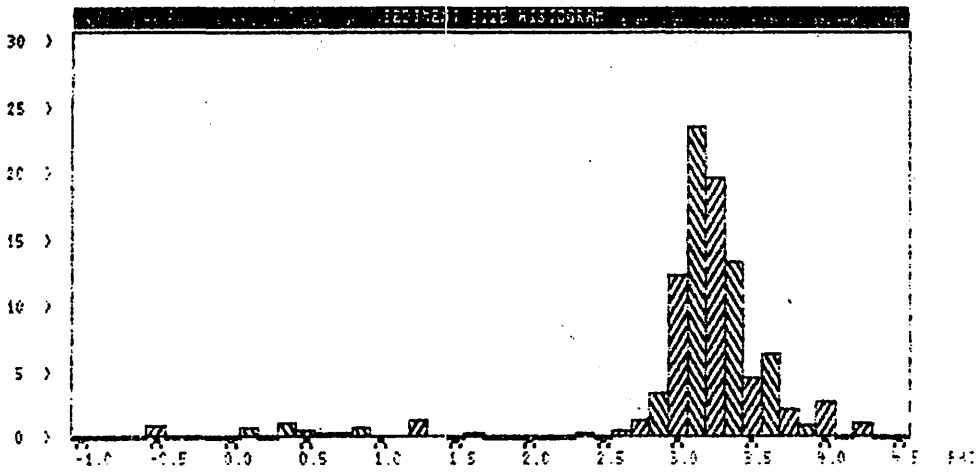
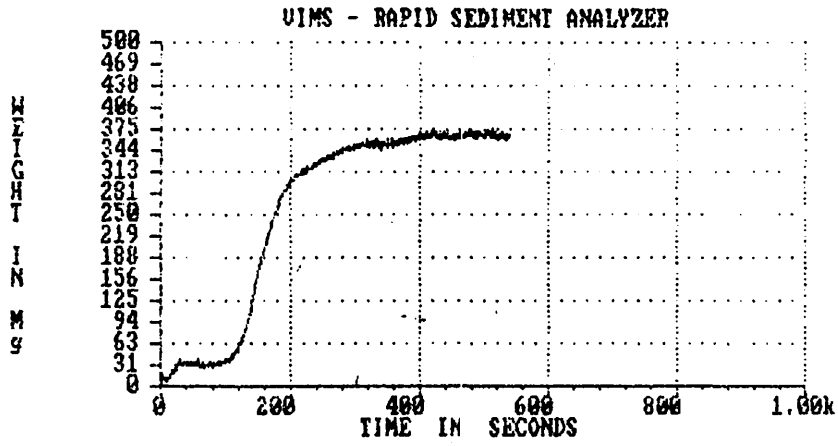
CORE 47 S1 0-0.56M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
591.1640 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
3.0078 0.7652 -2.7443 11.1047 M1 M2 M3 M4 (phi)  
3.1570 3.1325 0.5705 -0.2190 0.5687 Mz,Md,SI,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	3.5334	0.9715	3.5334	0.9715
-0.3750	1.2968	14.5884	0.0000	0.0000	3.5334	0.9715
-0.2500	1.1892	13.6217	0.0000	0.0000	3.5334	0.9715
-0.1250	1.0905	12.6995	0.0000	0.0000	3.5334	0.9715
0.0000	1.0000	11.8208	0.0000	0.0000	3.5334	0.9715
0.1250	0.9170	10.9848	2.8572	0.7855	6.3906	1.7570
0.2500	0.8409	10.1905	0.0000	0.0000	6.3906	1.7570
0.3750	0.7711	9.4370	4.4561	1.2251	10.8468	2.9821
0.5000	0.7071	8.7233	2.1969	0.6040	13.0437	3.5861
0.6250	0.6484	8.0484	1.6382	0.4504	14.6818	4.0365
0.7500	0.5946	7.4111	1.2736	0.3502	15.9554	4.3867
0.8750	0.5453	6.8104	2.6935	0.7405	18.6490	5.1272
1.0000	0.5000	6.2452	0.2348	0.0646	18.8838	5.1918
1.1250	0.4585	5.7143	0.4623	0.1271	19.3461	5.3189
1.2500	0.4204	5.2167	5.2958	1.4560	24.6420	6.7749
1.3750	0.3856	4.7510	0.9206	0.2531	25.5626	7.0280
1.5000	0.3536	4.3163	0.0000	0.0000	25.5626	7.0280
1.6250	0.3242	3.9113	1.4922	0.4102	27.0548	7.4382
1.7500	0.2973	3.5349	0.0000	0.0000	27.0548	7.4382
1.8750	0.2726	3.1860	0.0000	0.0000	27.0548	7.4382
2.0000	0.2500	2.8634	0.0000	0.0000	27.0548	7.4382
2.1250	0.2293	2.5660	0.0771	0.0212	27.1319	7.4594
2.2500	0.2102	2.2927	0.0000	0.0000	27.1319	7.4594
2.3750	0.1928	2.0423	1.3258	0.3645	28.4577	7.8239
2.5000	0.1768	1.8137	0.0000	0.0000	28.4577	7.8239
2.6250	0.1621	1.6058	2.0929	0.5754	30.5506	8.3993
2.7500	0.1487	1.4175	4.9701	1.3664	35.5206	9.7658
2.8750	0.1363	1.2476	12.2220	3.3602	47.7426	13.1260
3.0000	0.1250	1.0949	44.5179	12.2394	92.2605	25.3654
3.1250	0.1146	0.9582	85.3111	23.4548	177.5717	48.8202
3.2500	0.1051	0.8364	71.3091	19.6052	248.8807	68.4254
3.3750	0.0964	0.7282	48.6401	13.3728	297.5209	81.7981
3.5000	0.0884	0.6326	16.9454	4.6588	314.4662	86.4570
3.6250	0.0811	0.5484	23.3737	6.4262	337.8399	92.8831
3.7500	0.0743	0.4744	8.0342	2.2088	345.8740	95.0920
3.8750	0.0682	0.4098	3.3893	0.9318	349.2634	96.0238
4.0000	0.0625	0.3533	9.8617	2.7113	359.1251	98.7351
4.1250	0.0573	0.3043	0.0000	0.0000	359.1251	98.7351
4.2500	0.0526	0.2617	4.6006	1.2649	363.7257	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	363.7257	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	363.7257	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C47\_S4

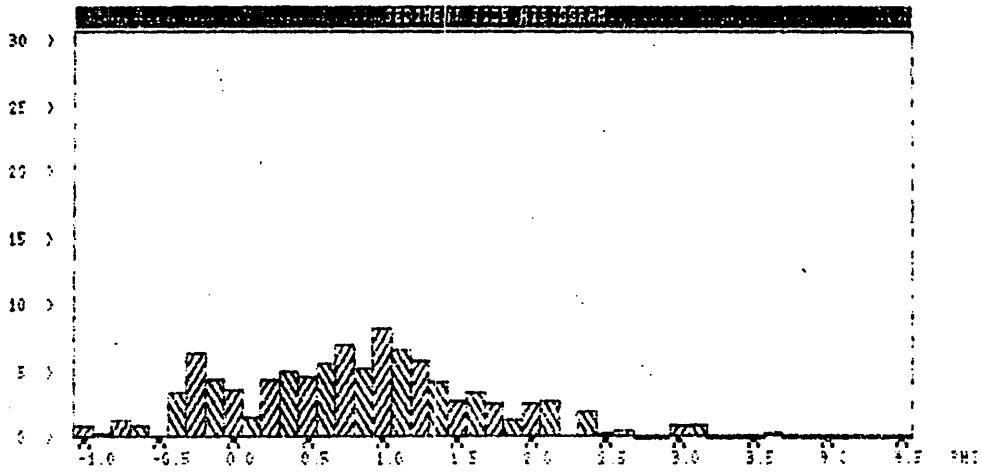
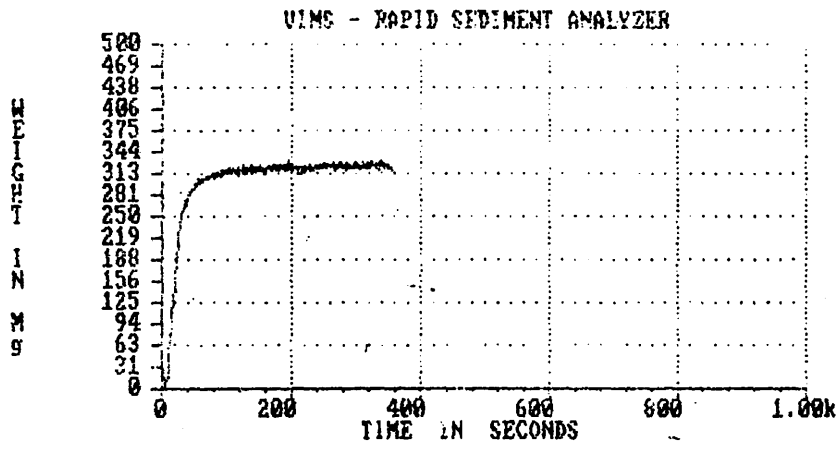
CORE 47 S4 2.40-2.95M

VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
508.5029    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
0.7630    0.8404    0.3390    3.0978    M1 M2 M3 M4 (phi)  
0.7154    0.7585    0.8480    0.0149    0.9492    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	3.2978	1.0516	3.2978	1.0516
-0.8750	1.8340	18.9156	0.8586	0.2738	4.1564	1.3254
-0.7500	1.6818	17.7631	4.1813	1.3333	8.3377	2.6587
-0.6250	1.5422	16.6582	3.2447	1.0347	11.5824	3.6934
-0.5000	1.4142	15.6003	0.4540	0.1448	12.0364	3.8382
-0.3750	1.2968	14.5884	10.5227	3.3555	22.5591	7.1937
-0.2500	1.1892	13.6217	20.0428	6.3913	42.6019	13.5850
-0.1250	1.0905	12.6995	13.6214	4.3436	56.2233	17.9286
0.0000	1.0000	11.8208	11.1168	3.5449	67.3400	21.4735
0.1250	0.9170	10.9848	5.2082	1.6608	72.5482	23.1343
0.2500	0.8409	10.1905	13.8564	4.4186	86.4045	27.5529
0.3750	0.7711	9.4370	15.4439	4.9248	101.8485	32.4777
0.5000	0.7071	8.7233	14.1463	4.5110	115.9948	36.9887
0.6250	0.6484	8.0484	17.4738	5.5721	133.4686	42.5608
0.7500	0.5946	7.4111	22.2402	7.0920	155.7088	49.6528
0.8750	0.5453	6.8104	16.0957	5.1326	171.8045	54.7854
1.0000	0.5000	6.2452	25.7454	8.2097	197.5498	62.9952
1.1250	0.4585	5.7143	20.5293	6.5464	218.0792	69.5416
1.2500	0.4204	5.2167	18.0169	5.7453	236.0961	75.2869
1.3750	0.3856	4.7510	12.9990	4.1451	249.0951	79.4320
1.5000	0.3536	4.3163	8.4475	2.6937	257.5425	82.1258
1.6250	0.3242	3.9113	10.7821	3.4382	268.3246	85.5640
1.7500	0.2973	3.5349	8.3855	2.6740	276.7101	88.2380
1.8750	0.2726	3.1860	4.3322	1.3815	281.0423	89.6194
2.0000	0.2500	2.8634	7.9974	2.5502	289.0397	92.1697
2.1250	0.2293	2.5660	8.4323	2.6889	297.4720	94.8586
2.2500	0.2102	2.2927	0.1978	0.0631	297.6698	94.9217
2.3750	0.1928	2.0423	6.1231	1.9526	303.7929	96.8742
2.5000	0.1768	1.8137	0.8599	0.2742	304.6529	97.1484
2.6250	0.1621	1.6058	1.9734	0.6293	306.6262	97.7777
2.7500	0.1487	1.4175	0.0000	0.0000	306.6262	97.7777
2.8750	0.1363	1.2476	0.0000	0.0000	306.6262	97.7777
3.0000	0.1250	1.0949	3.0351	0.9678	309.6613	98.7455
3.1250	0.1146	0.9582	3.0229	0.9640	312.6842	99.7095
3.2500	0.1051	0.8364	0.0000	0.0000	312.6842	99.7095
3.3750	0.0964	0.7282	0.0000	0.0000	312.6842	99.7095
3.5000	0.0884	0.6326	0.0000	0.0000	312.6842	99.7095
3.6250	0.0811	0.5484	0.9110	0.2905	313.5952	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	313.5952	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	313.5952	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	313.5952	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	313.5952	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	313.5952	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	313.5952	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	313.5952	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C47\_S5

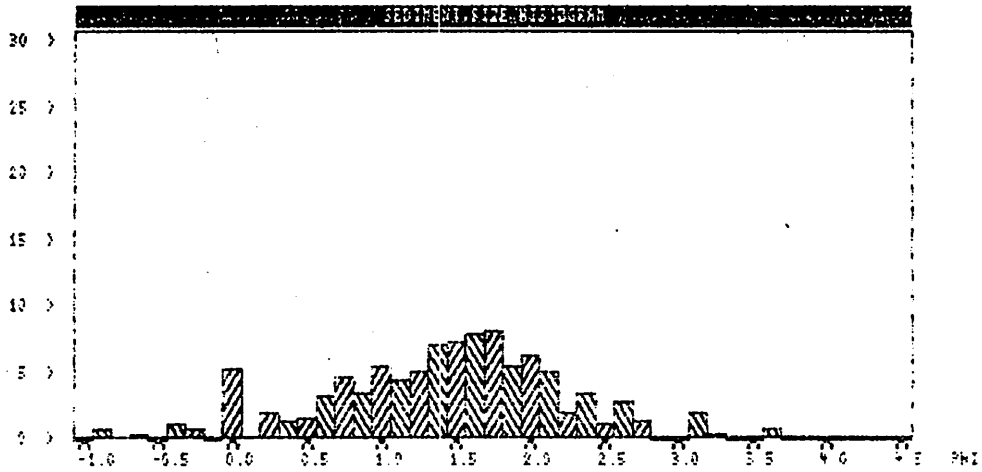
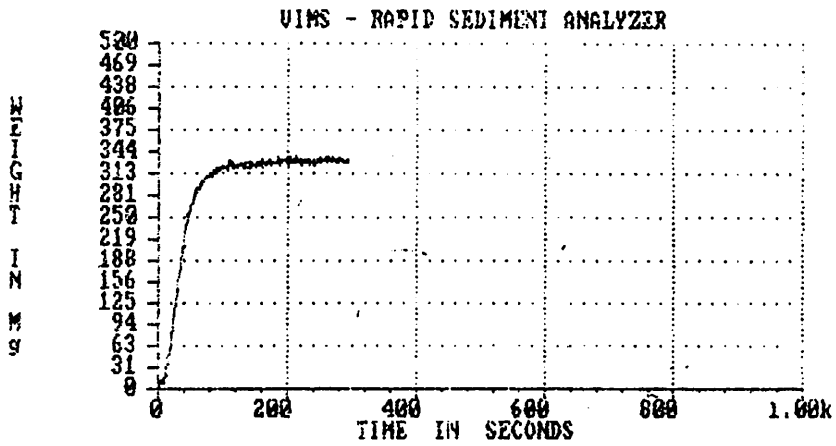
CORE 47 S5 2.85-3.55M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
531.2249 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Wn\*0.913  
1.3558 0.8019 -0.2409 3.2326 M1 M2 M3 M4 (phi)  
1.3633 1.4335 0.7722 -0.1377 0.7273 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	2.3000	0.7055	2.3000	0.7055
-0.7500	1.6818	17.7631	0.6714	0.2059	2.9714	0.9114
-0.6250	1.5422	16.6582	1.1677	0.3582	4.1391	1.2696
-0.5000	1.4142	15.6003	0.1390	0.0426	4.2781	1.3123
-0.3750	1.2968	14.5884	3.7900	1.1625	8.0681	2.4746
-0.2500	1.1892	13.6217	2.1699	0.6656	10.2380	3.1404
-0.1250	1.0905	12.6995	0.0000	0.0000	10.2380	3.1404
0.0000	1.0000	11.8208	17.1472	5.2597	27.3852	8.4001
0.1250	0.9170	10.9848	0.4703	0.1443	27.8555	8.5444
0.2500	0.8409	10.1905	6.4721	1.9852	34.3276	10.5296
0.3750	0.7711	9.4370	4.4682	1.3706	38.7959	11.9002
0.5000	0.7071	8.7233	5.3138	1.6299	44.1096	13.5302
0.6250	0.6484	8.0484	10.6272	3.2598	54.7368	16.7899
0.7500	0.5946	7.4111	14.9494	4.5856	69.6862	21.3755
0.8750	0.5453	6.8104	11.2852	3.4616	80.9714	24.8371
1.0000	0.5000	6.2452	17.7204	5.4355	98.6918	30.2726
1.1250	0.4585	5.7143	14.1305	4.3344	112.8223	34.6070
1.2500	0.4204	5.2167	16.5953	5.0904	129.4177	39.6975
1.3750	0.3856	4.7510	22.6935	6.9610	152.1112	46.6585
1.5000	0.3536	4.3163	23.2920	7.1446	175.4032	53.8030
1.6250	0.3242	3.9113	25.6841	7.8783	201.0873	61.6813
1.7500	0.2973	3.5349	26.5172	8.1339	227.6045	69.8152
1.8750	0.2726	3.1860	17.9079	5.4930	245.5123	75.3083
2.0000	0.2500	2.8634	20.3120	6.2305	265.8243	81.5387
2.1250	0.2293	2.5660	16.2319	4.9790	282.0562	86.5177
2.2500	0.2102	2.2927	6.3468	1.9468	288.4030	88.4645
2.3750	0.1928	2.0423	10.8531	3.3291	299.2561	91.7936
2.5000	0.1768	1.8137	3.7515	1.1507	303.0077	92.9443
2.6250	0.1621	1.6058	8.8302	2.7086	311.8379	95.6529
2.7500	0.1487	1.4175	4.3096	1.3219	316.1475	96.9748
2.8750	0.1363	1.2476	0.0000	0.0000	316.1475	96.9748
3.0000	0.1250	1.0949	0.0000	0.0000	316.1475	96.9748
3.1250	0.1146	0.9582	6.2881	1.9288	322.4356	98.9036
3.2500	0.1051	0.8364	1.3483	0.4136	323.7839	99.3172
3.3750	0.0964	0.7282	0.0000	0.0000	323.7839	99.3172
3.5000	0.0884	0.6326	0.0000	0.0000	323.7839	99.3172
3.6250	0.0811	0.5484	2.2260	0.6828	326.0098	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	326.0098	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	326.0098	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	326.0098	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	326.0098	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	326.0098	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	326.0098	100.0000
4.5000	0.0442	0.1920	0.0000	0.0000	326.0098	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



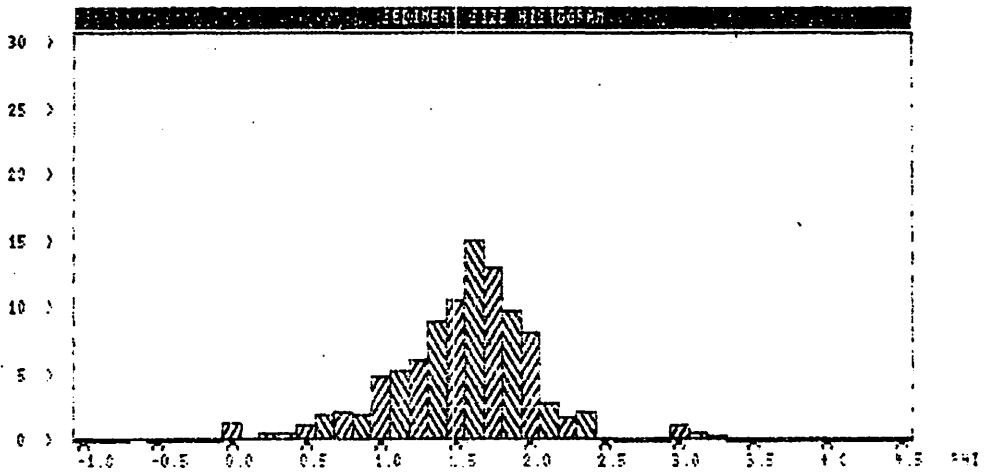
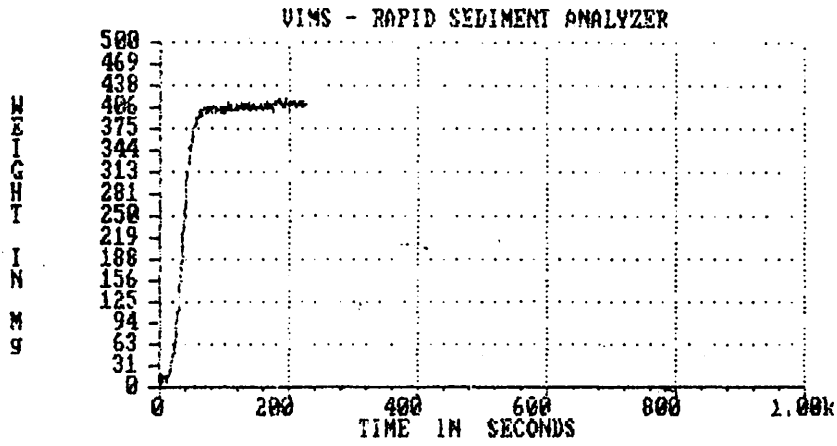


C48\_R1S1  
 CORE 48-R1 S1 0-0.82M  
 VA. BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
 655.4124    Dry Sand Fraction Weight (mg)  
 2.65            Grain density /Natural Grain Fall Time using Wn=0.977Ws^0.913  
 1.4788    0.5111    -0.3474    4.9095    M1 M2 M3 M4 (phi)  
 1.4836    1.5371    0.4654    -0.1899    0.5315    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.7468	0.1835	0.7468	0.1835
-0.5000	1.4142	15.6003	0.0000	0.0000	0.7468	0.1835
-0.3750	1.2968	14.5884	0.0000	0.0000	0.7468	0.1835
-0.2500	1.1892	13.6217	0.0000	0.0000	0.7468	0.1835
-0.1250	1.0905	12.6995	0.0000	0.0000	0.7468	0.1835
0.0000	1.0000	11.8208	5.5958	1.3754	6.3426	1.5589
0.1250	0.9170	10.9848	0.9182	0.2257	7.2608	1.7846
0.2500	0.8409	10.1905	2.5663	0.6308	9.8271	2.4154
0.3750	0.7711	9.4370	2.3433	0.5759	12.1704	2.9913
0.5000	0.7071	8.7233	4.7848	1.1760	16.9552	4.1674
0.6250	0.6484	8.0484	7.7635	1.9082	24.7187	6.0755
0.7500	0.5946	7.4111	8.6632	2.1293	33.3818	8.2048
0.8750	0.5453	6.8104	7.8532	1.9302	41.2350	10.1350
1.0000	0.5000	6.2452	19.6615	4.8326	60.8966	14.9676
1.1250	0.4585	5.7143	21.3351	5.2439	82.2317	20.2115
1.2500	0.4204	5.2167	24.4117	6.0001	106.6433	26.2116
1.3750	0.3856	4.7510	36.0825	8.8686	142.7259	35.0802
1.5000	0.3536	4.3163	42.7321	10.5030	185.4580	45.5832
1.6250	0.3242	3.9113	60.5717	14.8878	246.0297	60.4710
1.7500	0.2973	3.5349	52.4922	12.9019	298.5219	73.3729
1.8750	0.2726	3.1860	39.5516	9.7213	338.0735	83.0941
2.0000	0.2500	2.8634	32.8639	8.0775	370.9374	91.1717
2.1250	0.2293	2.5660	11.3172	2.7816	382.2546	93.9533
2.2500	0.2102	2.2927	7.0868	1.7418	389.3414	95.6951
2.3750	0.1928	2.0423	8.6308	2.1213	397.9722	97.8165
2.5000	0.1768	1.8137	0.9217	0.2265	398.8939	98.0430
2.6250	0.1621	1.6058	0.0000	0.0000	398.8939	98.0430
2.7500	0.1487	1.4175	0.0000	0.0000	398.8939	98.0430
2.8750	0.1363	1.2476	0.0000	0.0000	398.8939	98.0430
3.0000	0.1250	1.0949	4.7753	1.1737	403.6691	99.2167
3.1250	0.1146	0.9582	1.9473	0.4786	405.6165	99.6953
3.2500	0.1051	0.8364	1.2396	0.3047	406.8560	100.0000
3.3750	0.0964	0.7282	0.0000	0.0000	406.8560	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	406.8560	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	406.8560	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	406.8560	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	406.8560	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	406.8560	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	406.8560	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	406.8560	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	406.8560	100.0000
4.5000	0.0442	0.1920	0.0000	0.0000	406.8560	100.0000

\* - fall velocity of natural grains in fresh water at 20oC



C48\_R1S2

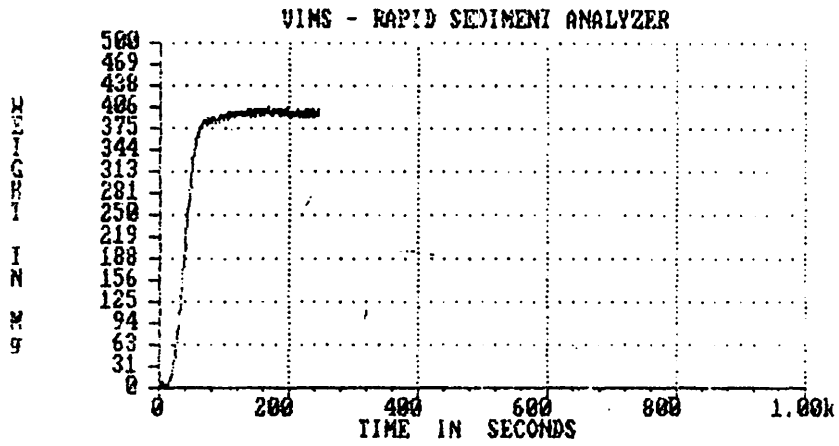
CORE 48-R1 S2 0.82-1.88M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
635.4327 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
1.5703 0.5198 -0.7615 6.0096 M1 M2 M3 M4 (phi)  
1.5883 1.6431 0.4575 -0.2292 0.4826 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.2905	0.3213	1.2905	0.3213
-0.7500	1.6818	17.7631	0.0000	0.0000	1.2905	0.3213
-0.6250	1.5422	16.6582	0.0000	0.0000	1.2905	0.3213
-0.5000	1.4142	15.6003	0.0000	0.0000	1.2905	0.3213
-0.3750	1.2968	14.5884	1.6755	0.4171	2.9660	0.7384
-0.2500	1.1892	13.6217	0.6844	0.1704	3.6504	0.9088
-0.1250	1.0905	12.6995	0.0000	0.0000	3.6504	0.9088
0.0000	1.0000	11.8208	0.0000	0.0000	3.6504	0.9088
0.1250	0.9170	10.9848	0.0000	0.0000	3.6504	0.9088
0.2500	0.8409	10.1905	3.9580	0.9854	7.6084	1.8942
0.3750	0.7711	9.4370	2.0312	0.5057	9.6396	2.3999
0.5000	0.7071	8.7233	3.6108	0.8990	13.2504	3.2988
0.6250	0.6484	8.0484	6.3627	1.5841	19.6131	4.8829
0.7500	0.5946	7.4111	8.3359	2.0753	27.9489	6.9582
0.8750	0.5453	6.8104	7.0527	1.7558	35.0016	8.7140
1.0000	0.5000	6.2452	14.2743	3.5538	49.2759	12.2678
1.1250	0.4585	5.7143	14.2786	3.5548	63.5545	15.8226
1.2500	0.4204	5.2167	21.7144	5.4061	85.2689	21.2287
1.3750	0.3856	4.7510	30.3622	7.5590	115.6311	28.7877
1.5000	0.3536	4.3163	34.6247	8.6202	150.2559	37.4079
1.6250	0.3242	3.9113	43.2483	10.7672	193.5042	48.1751
1.7500	0.2973	3.5349	50.5650	12.5887	244.0692	60.7638
1.8750	0.2726	3.1860	51.0768	12.7161	295.1459	73.4800
2.0000	0.2500	2.8634	44.8626	11.1690	340.0085	84.6490
2.1250	0.2293	2.5660	29.0282	7.2269	369.0367	91.8759
2.2500	0.2102	2.2927	15.4227	3.8397	384.4594	95.7156
2.3750	0.1928	2.0423	6.8745	1.7115	391.3339	97.4270
2.5000	0.1768	1.8137	0.0000	0.0000	391.3339	97.4270
2.6250	0.1621	1.6058	5.7427	1.4297	397.0766	98.8568
2.7500	0.1487	1.4175	1.2208	0.3039	398.2973	99.1607
2.8750	0.1363	1.2476	0.0000	0.0000	398.2973	99.1607
3.0000	0.1250	1.0949	1.0820	0.2694	399.3794	99.4301
3.1250	0.1146	0.9582	0.0000	0.0000	399.3794	99.4301
3.2500	0.1051	0.8364	0.0000	0.0000	399.3794	99.4301
3.3750	0.0964	0.7282	0.0000	0.0000	399.3794	99.4301
3.5000	0.0884	0.6326	2.2893	0.5699	401.6687	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	401.6687	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	401.6687	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	401.6687	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	401.6687	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	401.6687	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	401.6687	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	401.6687	100.0000
4.5000	0.0442	0.1920	0.0000	0.0000	401.6687	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

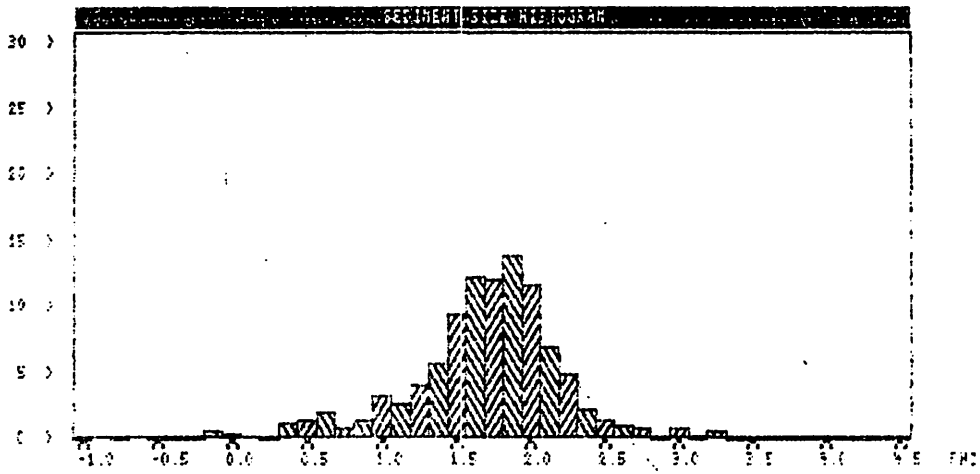
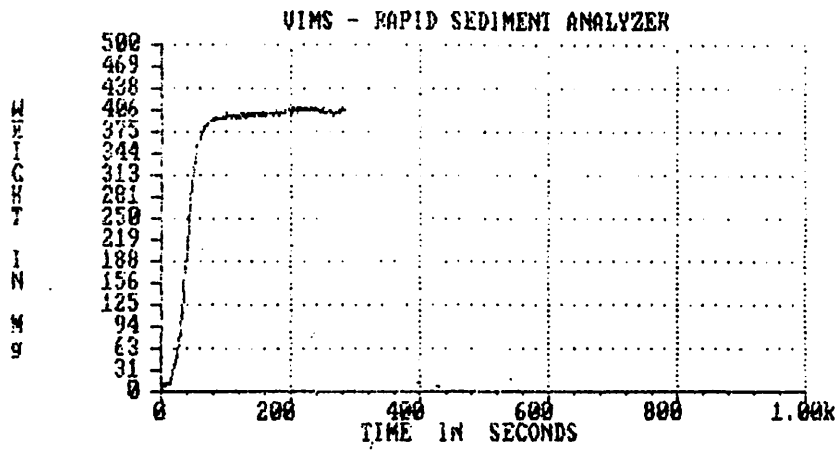


C48\_R2S1  
 CORE 48-R2 S1 0-2.02M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 648.7525 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using Wn=0.977W<sub>n</sub><sup>0.913</sup>  
 1.6265 0.5219 -0.6825 5.0599 M1 M2 M3 M4 (phi)  
 1.5425 1.6833 0.4810 -0.1936 0.5381 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.3490	0.0879	0.3490	0.0879
-0.7500	1.6818	17.7631	0.0000	0.0000	0.3490	0.0879
-0.6250	1.5422	16.6582	0.3086	0.0777	0.6576	0.1656
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6576	0.1656
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6576	0.1656
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6576	0.1656
-0.1250	1.0905	12.6995	2.6270	0.6615	3.2846	0.8271
0.0000	1.0000	11.8208	1.1358	0.2860	4.4204	1.1131
0.1250	0.9170	10.9848	0.7337	0.1847	5.1540	1.2979
0.2500	0.8409	10.1905	0.0000	0.0000	5.1540	1.2979
0.3750	0.7711	9.4370	4.4158	1.1120	9.5698	2.4098
0.5000	0.7071	8.7233	5.4298	1.3673	14.9996	3.7771
0.6250	0.6484	8.0484	7.8146	1.9678	22.8142	5.7449
0.7500	0.5946	7.4111	2.9320	0.7383	25.7462	6.4833
0.8750	0.5453	6.8104	5.4154	1.3637	31.1616	7.8469
1.0000	0.5000	6.2452	12.2755	3.0911	43.4370	10.9381
1.1250	0.4585	5.7143	10.6250	2.6755	54.0620	13.6136
1.2500	0.4204	5.2167	15.9373	4.0132	69.9993	17.6268
1.3750	0.3856	4.7510	22.0076	5.5418	92.0069	23.1686
1.5000	0.3536	4.3163	36.4955	9.1901	128.5024	32.3587
1.6250	0.3242	3.9113	47.9901	12.0846	176.4924	44.4432
1.7500	0.2973	3.5349	47.3380	11.9204	223.8304	56.3636
1.8750	0.2726	3.1860	54.2166	13.6525	278.0469	70.0161
2.0000	0.2500	2.8634	45.9104	11.5609	323.9573	81.5770
2.1250	0.2293	2.5660	26.7175	6.7278	350.6748	88.3048
2.2500	0.2102	2.2927	19.1026	4.8103	369.7774	93.1151
2.3750	0.1928	2.0423	8.7418	2.2013	378.5192	95.3164
2.5000	0.1768	1.8137	5.6830	1.4310	384.2021	96.7474
2.6250	0.1621	1.6058	4.1509	1.0452	388.3530	97.7927
2.7500	0.1487	1.4175	2.8953	0.7291	391.2482	98.5218
2.8750	0.1363	1.2476	0.0280	0.0071	391.2763	98.5288
3.0000	0.1250	1.0949	3.3151	0.8348	394.5913	99.3636
3.1250	0.1146	0.9582	0.0000	0.0000	394.5913	99.3636
3.2500	0.1051	0.8364	2.4320	0.6124	397.0234	99.9760
3.3750	0.0964	0.7282	0.0953	0.0240	397.1186	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	397.1186	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	397.1186	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	397.1186	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	397.1186	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	397.1186	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	397.1186	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	397.1186	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	397.1186	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	397.1186	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

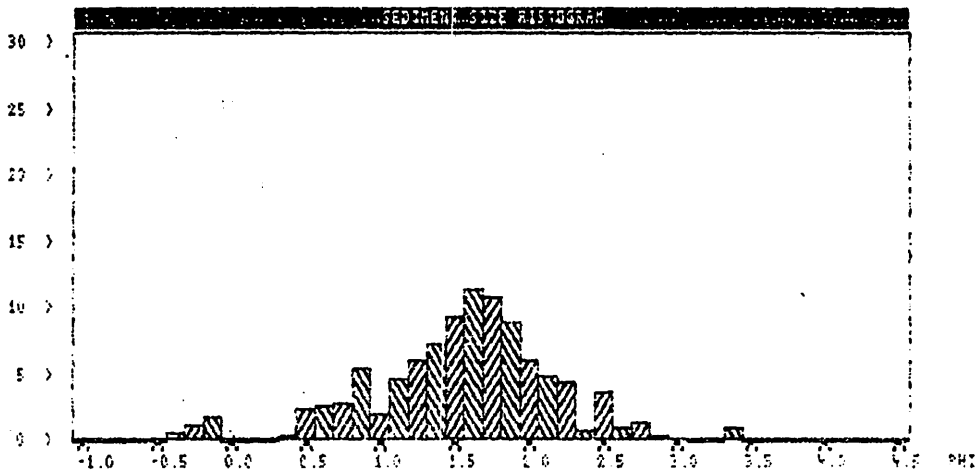
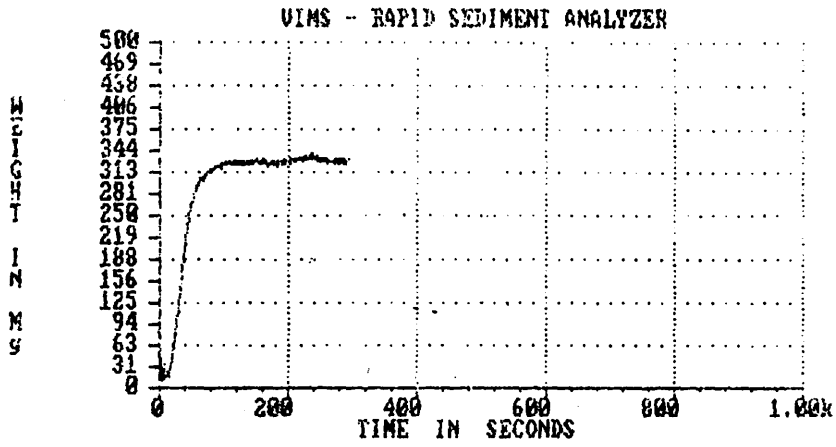


C48\_R2S2  
 CORE 48-R2 S2 2.02-3.95M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 528.4826 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Wn^0.913$   
 1.4840 0.6309 -0.4074 4.0207 M1 M2 M3 M4 (phi)  
 1.4759 1.5441 0.6000 -0.1352 0.6018 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	1.5161	0.4709	1.5161	0.4709
-0.2500	1.1892	13.6217	4.0604	1.2612	5.5765	1.7322
-0.1250	1.0905	12.6995	5.7307	1.7801	11.3072	3.5123
0.0000	1.0000	11.8208	0.0000	0.0000	11.3072	3.5123
0.1250	0.9170	10.9848	0.0000	0.0000	11.3072	3.5123
0.2500	0.8409	10.1905	0.0000	0.0000	11.3072	3.5123
0.3750	0.7711	9.4370	1.0941	0.3399	12.4014	3.8521
0.5000	0.7071	8.7233	7.4685	2.3199	19.8699	6.1720
0.6250	0.6484	8.0484	8.3169	2.5834	28.1868	8.7554
0.7500	0.5946	7.4111	8.7260	2.7105	36.9128	11.4659
0.8750	0.5453	6.8104	17.5610	5.4548	54.4738	16.9207
1.0000	0.5000	6.2452	6.3950	1.9864	60.8687	18.9071
1.1250	0.4585	5.7143	14.5532	4.5205	75.4220	23.4277
1.2500	0.4204	5.2167	19.3858	6.0216	94.8078	29.4493
1.3750	0.3856	4.7510	23.3777	7.2616	118.1854	36.7109
1.5000	0.3536	4.3163	30.0205	9.3250	148.2059	46.0359
1.6250	0.3242	3.9113	36.1609	11.2324	184.3668	57.2683
1.7500	0.2973	3.5349	34.2714	10.6454	218.6382	67.9137
1.8750	0.2726	3.1860	28.5128	8.8567	247.1510	76.7704
2.0000	0.2500	2.8634	19.5880	6.0844	266.7390	82.8548
2.1250	0.2293	2.5660	15.5225	4.8216	282.2615	87.6765
2.2500	0.2102	2.2927	13.8773	4.3106	296.1387	91.9870
2.3750	0.1928	2.0423	2.2941	0.7126	298.4328	92.6996
2.5000	0.1768	1.8137	11.3069	3.5122	309.7397	96.2118
2.6250	0.1621	1.6058	3.2252	1.0018	312.9648	97.2136
2.7500	0.1487	1.4175	4.3299	1.3449	317.2947	98.5585
2.8750	0.1363	1.2476	0.8644	0.2685	318.1591	98.8270
3.0000	0.1250	1.0949	0.4523	0.1405	318.6114	98.9675
3.1250	0.1146	0.9582	0.0000	0.0000	318.6114	98.9675
3.2500	0.1051	0.8364	0.0000	0.0000	318.6114	98.9675
3.3750	0.0964	0.7282	3.3239	1.0325	321.9353	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	321.9353	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	321.9353	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	321.9353	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	321.9353	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	321.9353	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	321.9353	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	321.9353	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	321.9353	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	321.9353	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C48\_R3S1

CORE 48-R3 S1 0-0.92M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

651.8866 Dry Sand Fraction Weight (mg)

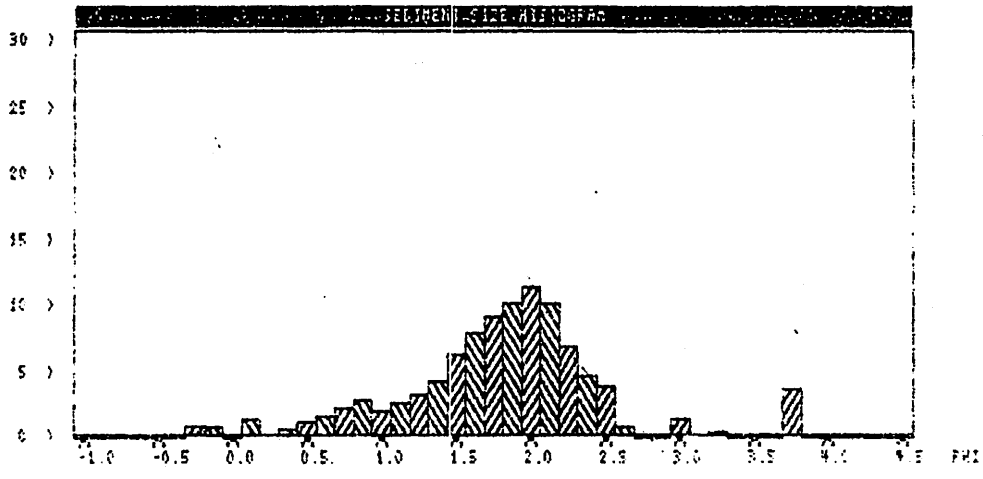
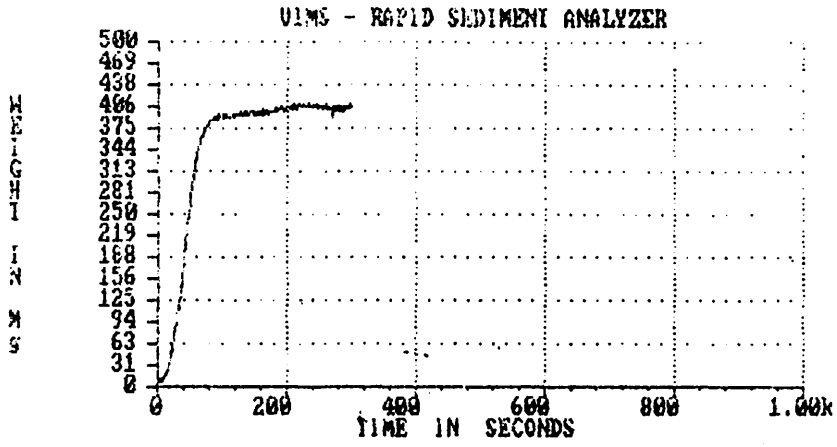
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{*0.913}$

1.7302 0.7048 0.0457 4.5459 M1 M2 M3 M4 (phi)

1.7101 1.7875 0.6450 -0.1338 0.6595 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	3.4143	0.8511	3.4143	0.8511
-0.1250	1.0905	12.6995	2.7337	0.6815	6.1480	1.5326
0.0000	1.0000	11.8208	0.0000	0.0000	6.1480	1.5326
0.1250	0.9170	10.9848	5.8379	1.4553	11.9860	2.9879
0.2500	0.8409	10.1905	0.6885	0.1716	12.6745	3.1595
0.3750	0.7711	9.4370	2.1366	0.5326	14.8111	3.6922
0.5000	0.7071	8.7233	5.0622	1.2619	19.8733	4.9541
0.6250	0.6484	8.0484	6.2151	1.5493	26.0884	6.5034
0.7500	0.5946	7.4111	8.6279	2.1508	34.7163	8.6542
0.8750	0.5453	6.8104	11.4202	2.8469	46.1366	11.5011
1.0000	0.5000	6.2452	8.0949	2.0179	54.2315	13.5190
1.1250	0.4585	5.7143	10.6673	2.6592	64.8987	16.1782
1.2500	0.4204	5.2167	12.9337	3.2242	77.8324	19.4024
1.3750	0.3856	4.7510	17.1047	4.2639	94.9371	23.6663
1.5000	0.3536	4.3163	25.3075	6.3088	120.2446	29.9751
1.6250	0.3242	3.9113	31.4725	7.8456	151.7171	37.8207
1.7500	0.2973	3.5349	36.6781	9.1433	188.3953	46.9639
1.8750	0.2726	3.1860	40.5496	10.1084	228.9448	57.0723
2.0000	0.2500	2.8634	45.1341	11.2512	274.0790	68.3235
2.1250	0.2293	2.5660	40.6485	10.1330	314.7275	78.4565
2.2500	0.2102	2.2927	27.4951	6.8541	342.2226	85.3106
2.3750	0.1928	2.0423	18.2407	4.5471	360.4633	89.8577
2.5000	0.1768	1.8137	14.8574	3.7037	375.3207	93.5615
2.6250	0.1621	1.6058	3.3631	0.8384	378.6838	94.3998
2.7500	0.1487	1.4175	0.0000	0.0000	378.6838	94.3998
2.8750	0.1363	1.2476	0.0000	0.0000	378.6838	94.3998
3.0000	0.1250	1.0949	5.4423	1.3567	384.1261	95.7565
3.1250	0.1146	0.9582	0.7234	0.1803	384.8494	95.9368
3.2500	0.1051	0.8364	1.7277	0.4307	386.5772	96.3675
3.3750	0.0964	0.7282	0.0000	0.0000	386.5772	96.3675
3.5000	0.0884	0.6326	0.0000	0.0000	386.5772	96.3675
3.6250	0.0811	0.5484	0.0000	0.0000	386.5772	96.3675
3.7500	0.0743	0.4744	14.5717	3.6325	401.1489	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	401.1489	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	401.1489	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	401.1489	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	401.1489	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	401.1489	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	401.1489	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C48\_R3S2

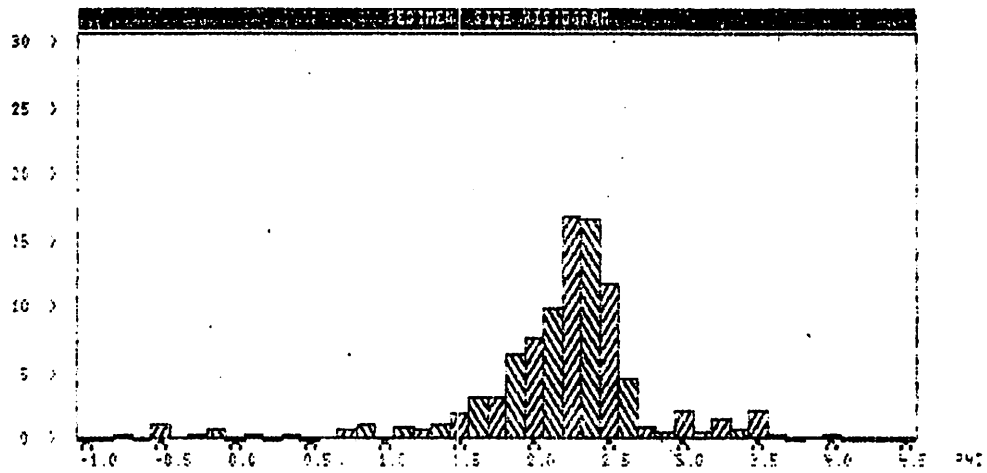
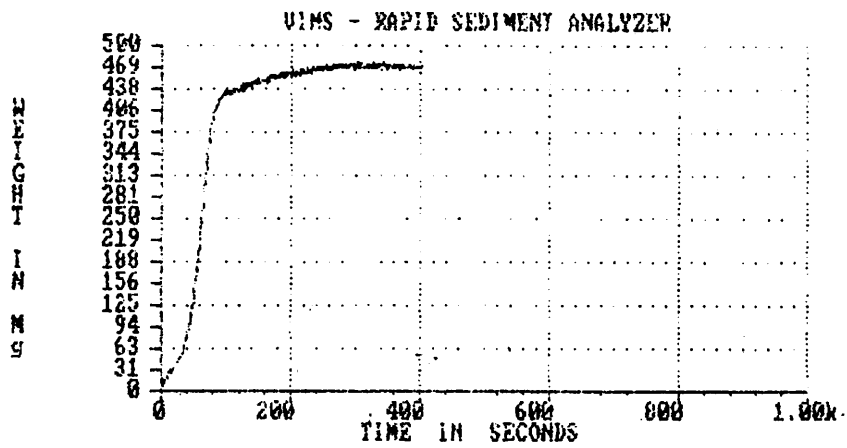
CORE 48-R3 S2 0.92-1.18M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
758.4450 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
2.0939 0.6833 -1.4903 7.9129 M1 M2 M3 M4 (phi)  
2.1309 2.1939 0.5478 -0.2125 0.6014 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	2.1123	0.4596	2.1123	0.4596
-0.6250	1.5422	16.6582	0.0000	0.0000	2.1123	0.4596
-0.5000	1.4142	15.6003	5.6790	1.2355	7.7913	1.6951
-0.3750	1.2968	14.5884	0.7696	0.1674	8.5610	1.8625
-0.2500	1.1892	13.6217	1.4621	0.3181	10.0231	2.1806
-0.1250	1.0905	12.6995	3.3950	0.7386	13.4181	2.9193
0.0000	1.0000	11.8208	0.0000	0.0000	13.4181	2.9193
0.1250	0.9170	10.9848	1.5237	0.3315	14.9418	3.2508
0.2500	0.8409	10.1905	0.0000	0.0000	14.9418	3.2508
0.3750	0.7711	9.4370	1.9856	0.4320	16.9274	3.6827
0.5000	0.7071	8.7233	0.0000	0.0000	16.9274	3.6827
0.6250	0.6484	8.0484	0.5536	0.1204	17.4810	3.8032
0.7500	0.5946	7.4111	3.1733	0.6904	20.6543	4.4936
0.8750	0.5453	6.8104	5.0900	1.1074	25.7443	5.6010
1.0000	0.5000	6.2452	1.0290	0.2239	26.7732	5.8248
1.1250	0.4585	5.7143	4.5392	0.9876	31.3125	6.8124
1.2500	0.4204	5.2167	3.3033	0.7187	34.6157	7.5311
1.3750	0.3856	4.7510	5.0357	1.0956	39.6514	8.6266
1.5000	0.3536	4.3163	8.6933	1.8913	48.3447	10.5179
1.6250	0.3242	3.9113	14.5695	3.1698	62.9141	13.6877
1.7500	0.2973	3.5349	14.3918	3.1311	77.3059	16.8188
1.8750	0.2726	3.1860	29.1983	6.3524	106.5042	23.1712
2.0000	0.2500	2.8634	35.5070	7.7250	142.0112	30.8962
2.1250	0.2293	2.5660	45.2856	9.8524	187.2969	40.7486
2.2500	0.2102	2.2927	77.1996	16.7957	264.4965	57.5443
2.3750	0.1928	2.0423	75.7157	16.4728	340.2122	74.0172
2.5000	0.1768	1.8137	53.8998	11.7265	394.1120	85.7437
2.6250	0.1621	1.6058	21.3199	4.6384	415.4319	90.3821
2.7500	0.1487	1.4175	4.1625	0.9056	419.5944	91.2877
2.8750	0.1363	1.2476	2.9869	0.6498	422.5813	91.9375
3.0000	0.1250	1.0949	9.7462	2.1204	432.3274	94.0579
3.1250	0.1146	0.9582	2.2231	0.4837	434.5505	94.5416
3.2500	0.1051	0.8364	7.1103	1.5469	441.6609	96.0885
3.3750	0.0964	0.7282	3.4938	0.7601	445.1546	96.8486
3.5000	0.0884	0.6326	10.3101	2.2431	455.4647	99.0917
3.6250	0.0811	0.5484	1.4324	0.3116	456.8971	99.4033
3.7500	0.0743	0.4744	0.0000	0.0000	456.8971	99.4033
3.8750	0.0682	0.4098	0.9562	0.2080	457.8534	99.6114
4.0000	0.0625	0.3533	1.7863	0.3886	459.6397	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	459.6397	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	459.6397	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	459.6397	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	459.6397	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

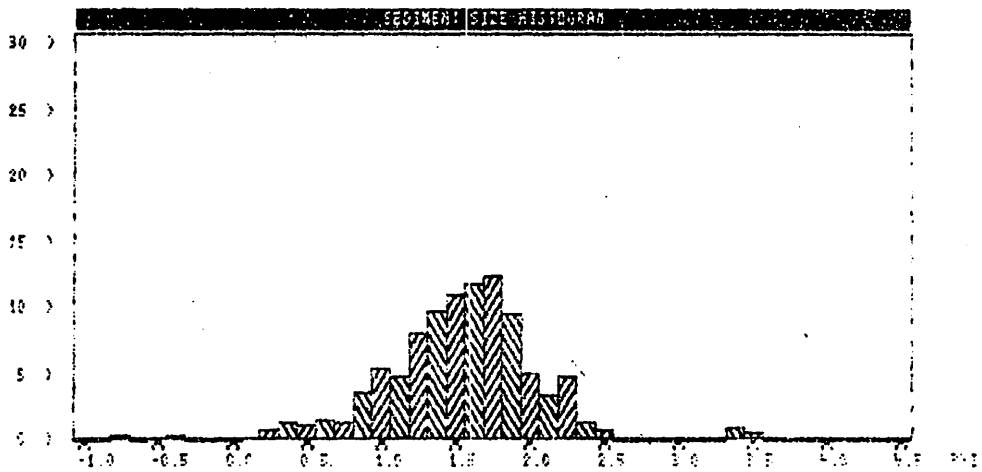
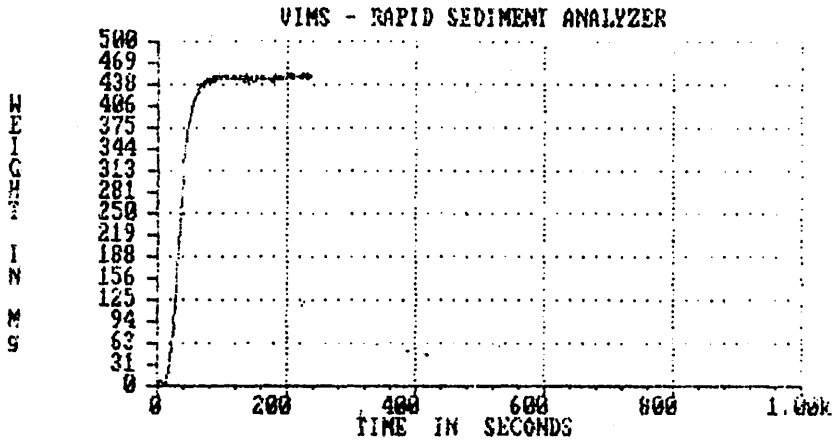


C49\_S1  
 CORE 49 S1 0-1.62M  
 VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
 722.0114 Dry Sand Fraction Weight (mg)  
 2.65 Grain density /Natural Grain Fall Time using  $Wn=0.977Ws^{0.913}$   
 1.4662 0.5408 -0.1660 5.8957 M1 M2 M3 M4 (phi)  
 1.4615 1.5007 0.4777 -0.1355 0.5319 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.8361	0.4080	1.8361	0.4080
-0.6250	1.5422	16.6582	0.0000	0.0000	1.8361	0.4080
-0.5000	1.4142	15.6003	0.4223	0.0939	2.2585	0.5019
-0.3750	1.2968	14.5884	1.8465	0.4103	4.1049	0.9122
-0.2500	1.1892	13.6217	0.0000	0.0000	4.1049	0.9122
-0.1250	1.0905	12.6995	0.0000	0.0000	4.1049	0.9122
0.0000	1.0000	11.8208	0.0154	0.0034	4.1203	0.9157
0.1250	0.9170	10.9848	0.6474	0.1439	4.7677	1.0595
0.2500	0.8409	10.1905	3.7528	0.8340	8.5205	1.8935
0.3750	0.7711	9.4370	6.0320	1.3405	14.5526	3.2340
0.5000	0.7071	8.7233	4.8584	1.0797	19.4110	4.3137
0.6250	0.6484	8.0484	7.3214	1.6270	26.7324	5.9407
0.7500	0.5946	7.4111	6.5366	1.4526	33.2690	7.3934
0.8750	0.5453	6.8104	16.3497	3.6334	49.6186	11.0268
1.0000	0.5000	6.2452	24.3337	5.4077	73.9524	16.4344
1.1250	0.4585	5.7143	21.2241	4.7166	95.1764	21.1511
1.2500	0.4204	5.2167	36.6146	8.1369	131.7911	29.2879
1.3750	0.3856	4.7510	43.7044	9.7124	175.4954	39.0004
1.5000	0.3536	4.3163	49.2225	10.9387	224.7179	49.9391
1.6250	0.3242	3.9113	52.3386	11.6312	277.0565	61.5703
1.7500	0.2973	3.5349	55.2281	12.2733	332.2847	73.8436
1.8750	0.2726	3.1860	42.2656	9.3927	374.5503	83.2363
2.0000	0.2500	2.8634	22.7275	5.0507	397.2778	88.2870
2.1250	0.2293	2.5660	15.0473	3.3440	412.3251	91.6310
2.2500	0.2102	2.2927	21.2625	4.7252	433.5876	96.3562
2.3750	0.1928	2.0423	6.0700	1.3489	439.6576	97.7051
2.5000	0.1768	1.8137	3.4890	0.7754	443.1466	98.4805
2.6250	0.1621	1.6058	0.0000	0.0000	443.1466	98.4805
2.7500	0.1487	1.4175	0.0000	0.0000	443.1466	98.4805
2.8750	0.1363	1.2476	0.0000	0.0000	443.1466	98.4805
3.0000	0.1250	1.0949	0.0000	0.0000	443.1466	98.4805
3.1250	0.1146	0.9582	0.0000	0.0000	443.1466	98.4805
3.2500	0.1051	0.8364	0.0000	0.0000	443.1466	98.4805
3.3750	0.0964	0.7282	4.2372	0.9416	447.3838	99.4221
3.5000	0.0884	0.6326	2.6005	0.5779	449.9842	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	449.9842	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	449.9842	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	449.9842	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	449.9842	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	449.9842	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	449.9842	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	449.9842	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	449.9842	100.0000

\* - fall velocity of natural grains in fresh water at 20°C



C49\_S2

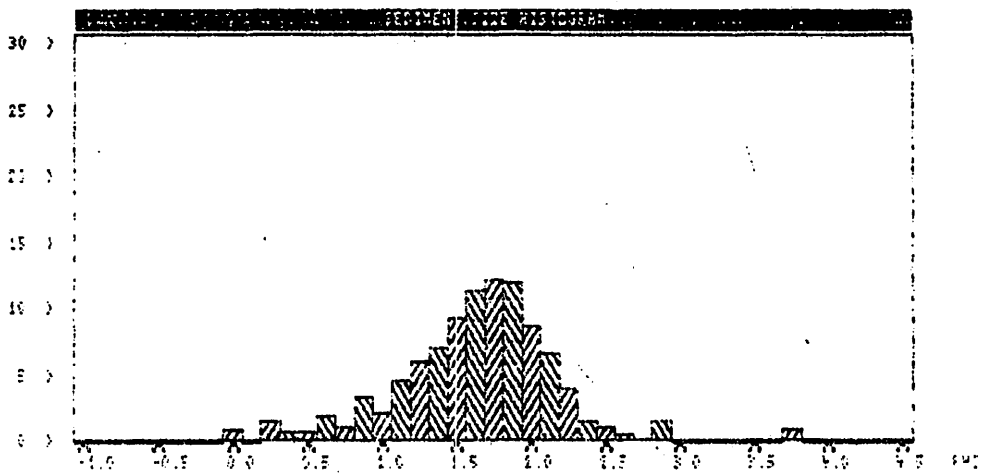
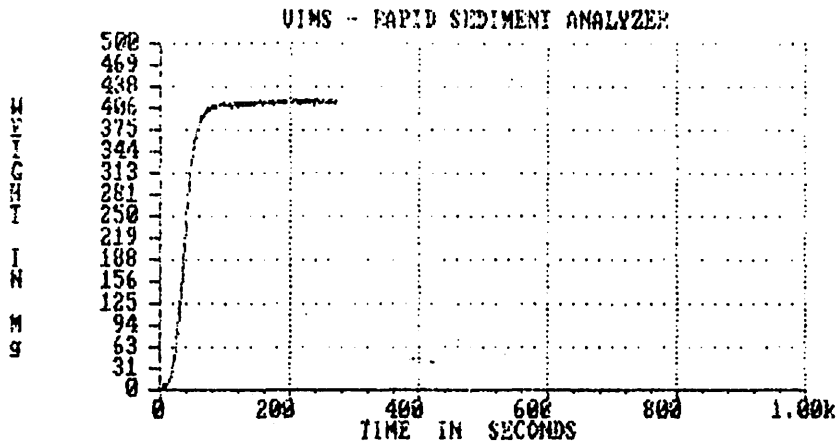
CORE 49 S2 1.62-3.15M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF  
668.3405 Dry Sand Fraction Weight (mg)  
2.65 Grain density /Natural Grain Fall Time using Wn=0.977Ws^0.913  
1.5683 0.5489 -0.0189 4.9834 M1 M2 M3 M4 (phi)  
1.5722 1.6172 0.4957 -0.1759 0.5300 Mz,Md,Sl,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	0.0000	0.0000	0.0000	0.0000
0.0000	1.0000	11.8208	3.8415	0.9216	3.8415	0.9216
0.1250	0.9170	10.9848	0.0000	0.0000	3.8415	0.9216
0.2500	0.8409	10.1905	6.1820	1.4831	10.0235	2.4046
0.3750	0.7711	9.4370	3.3125	0.7947	13.3360	3.1993
0.5000	0.7071	8.7233	3.4810	0.8351	16.8170	4.0343
0.6250	0.6484	8.0484	8.1150	1.9468	24.9320	5.9811
0.7500	0.5946	7.4111	4.9561	1.1889	29.8881	7.1700
0.8750	0.5453	6.8104	14.0697	3.3753	43.9577	10.5453
1.0000	0.5000	6.2452	9.3339	2.2392	53.2917	12.7845
1.1250	0.4585	5.7143	18.8513	4.5224	72.1430	17.3069
1.2500	0.4204	5.2167	24.7822	5.9452	96.9252	23.2520
1.3750	0.3856	4.7510	29.0500	6.9690	125.9753	30.2210
1.5000	0.3536	4.3163	38.2962	9.1871	164.2715	39.4081
1.6250	0.3242	3.9113	47.0959	11.2981	211.3674	50.7063
1.7500	0.2973	3.5349	50.4724	12.1082	261.8399	62.8144
1.8750	0.2726	3.1860	49.5781	11.8936	311.4179	74.7080
2.0000	0.2500	2.8634	36.4108	8.7348	347.8287	83.4429
2.1250	0.2293	2.5660	27.9393	6.7025	375.7680	90.1454
2.2500	0.2102	2.2927	16.7988	4.0300	392.5669	94.1754
2.3750	0.1928	2.0423	6.8094	1.6335	399.3762	95.8089
2.5000	0.1768	1.8137	4.7002	1.1276	404.0764	96.9365
2.6250	0.1621	1.6058	2.1937	0.5263	406.2701	97.4627
2.7500	0.1487	1.4175	0.2449	0.0588	406.5150	97.5215
2.8750	0.1363	1.2476	6.2776	1.5060	412.7927	99.0275
3.0000	0.1250	1.0949	0.0000	0.0000	412.7927	99.0275
3.1250	0.1146	0.9582	0.2248	0.0539	413.0174	99.0814
3.2500	0.1051	0.8364	0.0000	0.0000	413.0174	99.0814
3.3750	0.0964	0.7282	0.0000	0.0000	413.0174	99.0814
3.5000	0.0884	0.6326	0.0000	0.0000	413.0174	99.0814
3.6250	0.0811	0.5484	0.0000	0.0000	413.0174	99.0814
3.7500	0.0743	0.4744	3.8291	0.9186	416.8466	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	416.8466	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	416.8466	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	416.8466	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	416.8466	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	416.8466	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	416.8466	100.0000

\* - fall velocity of natural grains in fresh water at 20°C





C49\_S3

CORE 49 S3 3.15-4.14M

VA. BEACH

0.0 0.0 0.00 Lat Lon Depth(m) Operator: CF

582.9371 Dry Sand Fraction Weight (mg)

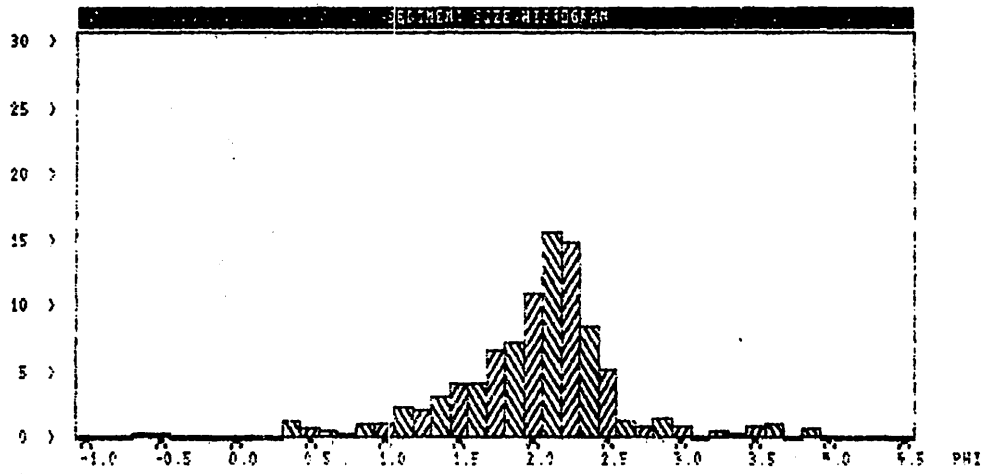
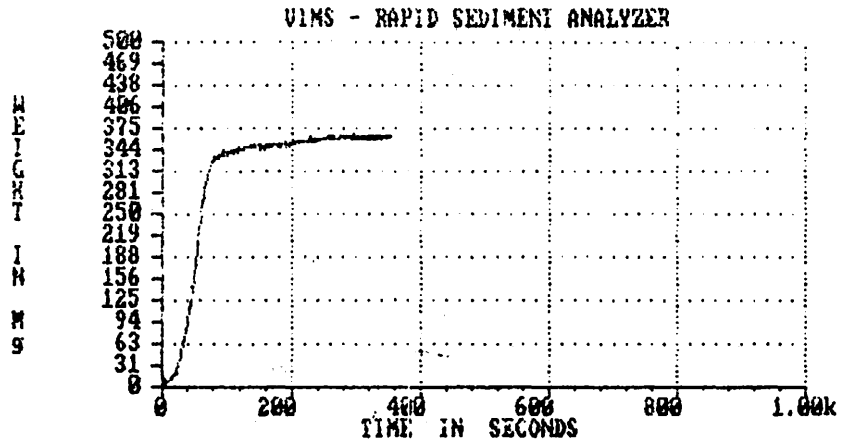
2.65 Grain density /Natural Grain Fall Time using  $W_n=0.977W_n+0.913$

1.9472 0.6136 -0.4671 5.8832 M1 M2 M3 M4 (phi)

1.9392 2.0250 0.5281 -0.2137 0.5266 Mz,Md,S1,SK1,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.4181	0.3959	1.4181	0.3959
-0.5000	1.4142	15.6003	1.1749	0.3281	2.5930	0.7240
-0.3750	1.2968	14.5884	0.0000	0.0000	2.5930	0.7240
-0.2500	1.1892	13.6217	0.0000	0.0000	2.5930	0.7240
-0.1250	1.0905	12.6995	0.0000	0.0000	2.5930	0.7240
0.0000	1.0000	11.8208	0.1067	0.0298	2.6997	0.7538
0.1250	0.9170	10.9848	0.0000	0.0000	2.6997	0.7538
0.2500	0.8409	10.1905	0.0000	0.0000	2.6997	0.7538
0.3750	0.7711	9.4370	4.8987	1.3678	7.5985	2.1215
0.5000	0.7071	8.7233	2.5653	0.7163	10.1638	2.8378
0.6250	0.6484	8.0484	1.9278	0.5382	12.0915	3.3760
0.7500	0.5946	7.4111	1.5181	0.4239	13.6096	3.7999
0.8750	0.5453	6.8104	3.8407	1.0723	17.4503	4.8722
1.0000	0.5000	6.2452	3.9177	1.0938	21.3680	5.9661
1.1250	0.4585	5.7143	8.4413	2.3568	29.8093	8.3229
1.2500	0.4204	5.2167	7.9347	2.2154	37.7439	10.5383
1.3750	0.3856	4.7510	11.5344	3.2205	49.2784	13.7588
1.5000	0.3536	4.3163	15.1051	4.2174	64.3834	17.9762
1.6250	0.3242	3.9113	15.1692	4.2353	79.5527	22.2116
1.7500	0.2973	3.5349	23.8577	6.6612	103.4104	28.8728
1.8750	0.2726	3.1860	25.9228	7.2378	129.3332	36.1106
2.0000	0.2500	2.8634	38.6308	10.7859	167.9639	46.8965
2.1250	0.2293	2.5660	55.6610	15.5409	223.6249	62.4374
2.2500	0.2102	2.2927	52.7618	14.7314	276.3868	77.1688
2.3750	0.1928	2.0423	30.2458	8.4448	306.6326	85.6136
2.5000	0.1768	1.8137	18.8855	5.2729	325.5181	90.8865
2.6250	0.1621	1.6058	5.2345	1.4615	330.7526	92.3480
2.7500	0.1487	1.4175	3.6602	1.0219	334.4127	93.3700
2.8750	0.1363	1.2476	5.8927	1.6453	340.3054	95.0152
3.0000	0.1250	1.0949	3.7017	1.0335	344.0071	96.0488
3.1250	0.1146	0.9582	0.0000	0.0000	344.0071	96.0488
3.2500	0.1051	0.8364	2.1932	0.6123	346.2003	96.6611
3.3750	0.0964	0.7282	1.2868	0.3593	347.4871	97.0204
3.5000	0.0884	0.6326	3.4704	0.9690	350.9575	97.9893
3.6250	0.0811	0.5484	4.2710	1.1925	355.2284	99.1818
3.7500	0.0743	0.4744	0.1991	0.0556	355.4275	99.2374
3.8750	0.0682	0.4098	2.7313	0.7626	358.1588	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	358.1588	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	358.1588	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	358.1588	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	358.1588	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	358.1588	100.0000

\* - fall velocity of natural grains in fresh water at 200C



C49\_S6

CORE 49 S6 5.13-5.74M

VA.BEACH

0.0            0.0            0.00    Lat    Lon    Depth(m)    Operator: CF  
612.3190    Dry Sand Fraction Weight (mg)  
2.65            Grain density /Natural Grain Fall Time using  $W_n=0.977W_s^{0.913}$   
2.6868    0.5528    -1.6099    9.8274    M1 M2 M3 M4 (phi)  
2.7182    2.7120    0.4512    0.0165    0.3154    Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.4884	0.1321	0.4884	0.1321
-0.5000	1.4142	15.6003	0.4872	0.1317	0.9756	0.2638
-0.3750	1.2968	14.5884	0.0000	0.0000	0.9756	0.2638
-0.2500	1.1892	13.6217	0.0000	0.0000	0.9756	0.2638
-0.1250	1.0905	12.6995	0.0000	0.0000	0.9756	0.2638
0.0000	1.0000	11.8208	0.0000	0.0000	0.9756	0.2638
0.1250	0.9170	10.9848	1.7810	0.4816	2.7566	0.7455
0.2500	0.8409	10.1905	0.0000	0.0000	2.7566	0.7455
0.3750	0.7711	9.4370	0.9183	0.2484	3.6749	0.9938
0.5000	0.7071	8.7233	1.8029	0.4876	5.4778	1.4814
0.6250	0.6484	8.0484	0.0000	0.0000	5.4778	1.4814
0.7500	0.5946	7.4111	0.0000	0.0000	5.4778	1.4814
0.8750	0.5453	6.8104	0.0000	0.0000	5.4778	1.4814
1.0000	0.5000	6.2452	0.4713	0.1275	5.9492	1.6089
1.1250	0.4585	5.7143	2.2129	0.5985	8.1621	2.2073
1.2500	0.4204	5.2167	1.0170	0.2750	9.1792	2.4824
1.3750	0.3856	4.7510	0.0000	0.0000	9.1792	2.4824
1.5000	0.3536	4.3163	0.3369	0.0911	9.5161	2.5735
1.6250	0.3242	3.9113	1.1266	0.3047	10.6426	2.8781
1.7500	0.2973	3.5349	0.8763	0.2370	11.5189	3.1151
1.8750	0.2726	3.1860	4.0921	1.1066	15.6110	4.2218
2.0000	0.2500	2.8634	4.9581	1.3408	20.5691	5.5626
2.1250	0.2293	2.5660	12.0126	3.2486	32.5817	8.8112
2.2500	0.2102	2.2927	18.4149	4.9800	50.9965	13.7912
2.3750	0.1928	2.0423	27.1802	7.3505	78.1767	21.1417
2.5000	0.1768	1.8137	34.8019	9.4116	112.9786	30.5533
2.6250	0.1621	1.6058	44.1163	11.9306	157.0948	42.4839
2.7500	0.1487	1.4175	39.9236	10.7967	197.0184	53.2806
2.8750	0.1363	1.2476	38.8896	10.5171	235.9080	63.7976
3.0000	0.1250	1.0949	40.4527	10.9398	276.3607	74.7374
3.1250	0.1146	0.9582	27.7011	7.4913	304.0617	82.2288
3.2500	0.1051	0.8364	27.3454	7.3951	331.4072	89.6239
3.3750	0.0964	0.7282	11.4285	3.0907	342.8356	92.7146
3.5000	0.0884	0.6326	8.8355	2.3894	351.6712	95.1040
3.6250	0.0811	0.5484	5.5741	1.5074	357.2453	96.6114
3.7500	0.0743	0.4744	8.1528	2.2048	365.3980	98.8162
3.8750	0.0682	0.4098	3.9020	1.0552	369.3000	99.8714
4.0000	0.0625	0.3533	0.4754	0.1286	369.7754	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	369.7754	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	369.7754	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.7754	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.7754	100.0000

\* - fall velocity of natural grains in fresh water at 20°C

